Project Name:
S Whidbey Aquatics Center

Parcel #
R32910-091-3750

Occupancy
2021 IBC A-4 VB

ISLAND COUNTY BUILDING DEPARTMENT PLAN COVER SHEET

DO NOT REMOVE THIS COVER SHEET FROM THE PLAN SET. THIS COVER SHEET CONTAINS IMPORTANT INFORMATION FOR BUILDERS AND BUILDING INSPECTORS

FOR FULL CODE TEXTS VISIT
https://www.islandcountwa.gov/Planning/Pages/BuildingCodes.aspx

Permit #
25-0661

Permit Type
COM-NEW-A4

Noise Zone
No

APZ
No

Engineer:
Name Alexander Lege (H) (L)/ Martell Montgomery (F)
Lic # 49006 / 2200845

F	L	V	H
✔	✔	☐	✔

Architect:
Name Paul Curtis
Lic # 10644

Flood Zone

Zone	Map	BFE
X		

WSEC Credits: 2.2.2, 2.3.1, 2.4.2, 2.5, 2.13.2, 2.12
Points: 59

Associated Permits
25-0848 Fence
SPR 081/24 and VAR 387/24
25-0717 Demo

Deferred Submittals:
Sprinkler Plan
Solar Plan
Fire Alarm Plan

Revision Description:

Revision Approved Date:

BUILDING CODE CONDITIONS

FOR ALL OTHER DEPARTMENT'S CONDITIONS REFER TO BUILDING PERMIT

* FOR ALL INSPECTIONS: KEEP ONE HARD COPY PRINTED SET OF ALL APPROVED DOCUMENTS ONSITE, INCLUDING BUT NOT LIMITED TO PERMITTING PAPERWORK, BUILDING PLANS, ENGINEERING, WSEC, FIXTURE/APPLIANCE SPECS, SITE PLAN, ETC.). IF SUBMITED DIGITALLY, APPLICANT IS RESPONSIBLE FOR PRINTING PAPER PLAN TO BE KEPT ONSITE. INSPECTOR CANNOT INSPECT WITHOUT ALL OF THE INFORMATION. IRC R106.3.1/IBC 107.3.1
* Certificate of Occupancy required prior to use of structure.
* The geotechnical engineer of record, Palmer Geotechnical Associates, shall provide a letter of completion when the project is done stating that the site was developed in accordance with their geotechnical report.
* The Civil Engineer of record, MIG, shall provide a letter of completion when the project is done stating that the site was developed in accordance with the civil plans
* Provide copy of Commissioning Report to building official per WSEC C408.
* Provide Building Owner or Authorized Agent documentation required by WSEC C103.6.
* Applicant shall provide to Island County Building Department prior to Final Inspection a signed Notice of Completion Letter stating that the work proposed has been reviewed and completed in accordance with the approved construction drawings, the approved structural analysis, industry standards and the current International Building Code in effect at the time the building permit was issued .
* Deferred Submittal: Provide Sprinkler plan to the building department prior to framing inspection for review and approval.
* Deferred Submittal: Provide Alarm plan to the building department prior to framing inspection for review and approval.
* This structure is not permitted as habitable space.
* PER PAGE S1.1: THE FOLLOWING ARE NOT INCLUDED WITH THE BUILDING PERMIT DRAWINGS AND SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL AS A DEFERRED SUBMITTAL. SUBMITTALS SHALL BE STAMPED BY A ENGINEER LICENSED IN THE STATE OF THE PROJECT AS NOTED:
1. OPEN-WEB STEEL JOISTS
2. CURTAIN WALL
3. FALL RESTRAINTS
4. BUCKLING RESTRAINED BRACES
* SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED BY AN INDEPENDENT TESTING LABORATORY PER THE REQUIREMENTS OF IBC CHAPTER 17, BUILDING OFFICIAL AND THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS AND A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL FOR THE ITEMS LISTED IN THE QUALITY ASSURANCE/SPECIAL INSPECTION SECTION CONTAINED ON PAGE S1.2 AND S1.3
* All welding to be performed by a WABO certified welder. All site welding to have special inspections. Provide special inspection reports to the building inspector.
* General contractor shall submit a written contractor's statement of responsibilty to the Building Official and Owner prior to commencement of work. The contractor's statement of responsibility shall include acknowledgement and awareness of the special inspection requirements contained in the statement of special inspection.
* TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.
* Deferred Submittal. Solar plans must be submitted and approved prior to scheduling building framing inspection.
* Provide installation manual(s) onsite for inspections. Including but not limited to Heat Pumps, Generators, Stoves, Inserts, etc. Inspections WILL NOT be done without the installation manual(s).
* No roof penetrations allowed within roof area designated for solar panels or their pathways per IFC 1204
* Provide special inspection report for the installation of SS Hilti KB-TZ2 per detail 2 and detail 6 page MR.2 to building official
* WSEC C406 Efficiency Packages: C406.2.2.2, C406.2.3.1, C406.2.4.2, C406.2.5, C406.2.12, C406.2.13.2 for 59 Credits

General Notes/Information

- Applicable Codes IRC, IBC, UPC, WSEC, IMC, IFGC, NFPA 58, ISPSC
  Reviewed with Code Cycle: 2021
- Island County Public Portal Web Site: **co-island-wa.smartgovcommuntity.com**
- It is the applicants and/or the contractor's responsibility to obtain stamped and signed building plan revisions. Stamped and signed building plan revisions will be submitted to the Island County Building Department for review and approval prior to incorporating the revisions into the building.
- The following approved plans have had code requirements added by the Island County Building Department to areas if the plans that require special attention. It is the responsibility of the user of these plans to review each plan sheet for these annotations.
- ***Per IRC 106.3.1 and IBC 107.3.1 a copy of the stamped approved construction documents must be kept on site.***

Reviewer Name: Brian Boyle

Reviewed Date: 7/18/25

Ver: 020325

SOUTH WHIDBEY AQUATIC RECREATION CENTER

CONTRACT DOCUMENTS

CONCEPTUAL RENDERING

ISLAND COUNTY
Reviewed For
2021 IBC
Code Compliance
07/18/2025
Brian Boyle

a r c
architecture resource collaborative

119 MAIN ST, STE #200
SEATTLE, WA 98104-2579
(206) 322-3322

10644 REGISTERED ARCHITECT
PAUL ROSS CURTIS
STATE OF WASHINGTON

S WHIDBEY PARKS & REC
AQUATIC REC CENTER

5491 MAXWELTON RD
LANGLEY, WA 98260

South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:
COVER SHEET

SCALE:
DRAWN: LP / ES / AP
CHECKED: PC / EW
PROJECT NO: 2022021.000

SHEET:
T0.0

ISLAND COUNTY
Reviewed For
2021 IBC
Code Compliance
07/18/2025
Brian Boyle

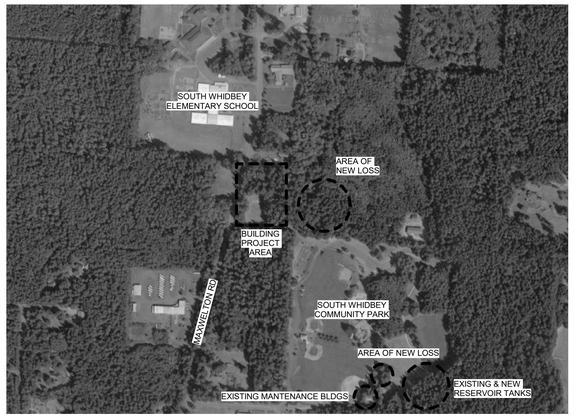
SOUTH WHIDBEY AQUATIC RECREATION CENTER

CONTRACT DOCUMENTS

arc
architecture resource collaborative
119 MAIN ST, STE #200
SEATTLE, WA 98104-2579
(206) 322-3322

10644 REGISTERED ARCHITECT
PAUL ROSS CURTIS
STATE OF WASHINGTON

VICINITY MAP



PROJECT TEAM

OWNER:

SOUTH WHIDBEY PARKS AND RECREATION
5475 MAXWELTON ROAD
LANGLEY WA, 98260
PHONE: 360-221-5484
CONTACT: BRIAN TOMISSER, DIRECTOR
EMAIL: DIRECTOR@SWPARKS.ORG

OWNER REPRESENTATIVE:

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117 E LOUISA ST, BOX 700
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PHONE: 206-229-8161
CONTACT: MARC BLOOM, PRINCIPAL
MBLOOM@BLOOMPROJECTS.COM

LANDSCAPE ARCHITECT:

BRUCE DEES & ASSOCIATES, LLC
222 EAST 26TH STREET, SUITE 202
TACOMA WA, 98421
PHONE: 253-627-7947
CONTACT: MICHAEL FAULKNER, PROJECT MANAGER
MFAULKNER@BDASSOCIATES.COM
CONTACT: SHAWN A. JENSEN, PRINCIPAL
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GEOTECHNICAL ENGINEER:

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PO BOX 1064
COUPEVILLE, WA 98239
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SURVEY:

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2822 COLBY AVENUE, SUITE 300
EVERETT, WA 98201
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COST ESTIMATOR:

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ARCHITECT:

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119 S MAIN ST. SUITE 200
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CONTACT: EMILY WHEELER, PRINCIPAL
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MECHANICAL, FIRE, PLUMBING ENGINEER:

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CONTACT: ANDREW LASSE, PRINCIPAL
ANDREWL@INTERFACEENG.COM
CONTACT: CHRIS SCOTT, ASSOCIATE PRINCIPAL
CHRISS@INTERFACEENG.COM

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CONTACT: DAVE ROGERS, PRINCIPAL ENGINEER
DROGERS@MIGCOM.COM
BARBARA VAN DE FEN, SR. CIVIL ENGINEER
BVANDEFEN@MIGCOM.COM

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PHONE: 360-331-4131
CONTACT: QUIN CLEMENTS, VICE-PRESIDENT
QCLEMENTS@FACETNW.COM

WATER SUPPLY SYSTEM ENGINEER:

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P.O Box 1132
FREELAND, WA 98249
PHONE: 360-331-4131
CONTACT: JEFF TASOFF, PRINCIPAL
JTASOFF@FACETNW.COM

CRITICAL AEAS:

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MT. VERNON, WA 98273
PHONE: 360-899-5156
CONTACT: GRAEME RIGGINS, WETLAND SCIENTIST
GRAEME@HAMERENVIRONMENTAL.COM

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PHONE: 206-292-5076
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ALEGE@PCS-STRUCTURAL.COM
CONTACT: CHRIS JESERITZ
CJESERITZ@PCS-STRUCTURAL.COM

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SEATTLE, WA 98109
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CONTACT: KEVIN WARTELLE, PRINCIPAL
KEVIN@TF-WB.COM
CONTACT: ERIE LEMUS, PROJECT MANAGER
ERIE@TF-WB.COM

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34TH STREET #150
SEATTLE, WA 98103
PHONE: 206-324-2272
CONTACT: DAVE FOX, SR. PROJECT MANAGER
EMAIL: DFOX@RDH.COM
CONTACT: TODD WAFFNER, PROJECT MANAGER
EMAIL: TWAFFNER@RDH.COM

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CARLSBAD, CA 92008
760-438-8400
CONTACT: JUSTIN CARON, PRINCIPAL
JCARON@AQUATICDESIGNGROUP.COM
CONTACT: ALEJANDRO PINNICK, PROJECT MANAGER
APINNICK@AQUATICDESIGNGROUP.COM

TRAFFIC CONSULTANT:

TRANSPORTATION ENGINEERING NORTHWEST
11400 SE 8TH ST #200,
BELLEVUE, WA 98004
206.361.7333
CONTACT: MICHAEL READ, PRINCIPAL
MIKEREAD@TENW.COM

PROJECT DESCRIPTION

AN APPROXIMATELY 24,027 SF SINGLE-STORY AQUATIC CENTER LOCATED ADJACENT TO EXISTING WETLANDS ON A PARCEL SHARED WITH THE EXISTING SOUTH WHIDBEY COMMUNITY PARK. THE PROJECT INCLUDES 85+ SURFACE PARKING SPACES, AN ENTRY PLAZA, OUTDOOR PATIOS, STORMWATER DETENTION, A SEPTIC DESIGN, & ASSOCIATED UTILITIES. A NEW WATER SUPPLY SYSTEM NEW WATER SUPPLY SYSTEM INCLUDING WATER FILTRATION AND EXISTING INFRASTRUCTURE IMPROVEMENTS TO SUPPORT THESE SYSTEMS. SHEETS ARE INCLUDED FOR REFERENCE IN THIS SET.

LEGAL DESCRIPTION

THE PROPERTY HEREIN DESCRIBED IS THE SAME PROPERTY DESCRIBED IN CHICAGO TITLE COMPANY OF WASHINGTON COMMITMENT FOR TITLE INSURANCE NUMBER245456727 DATED APRIL 18, 2023.LOT 1 OF ISLAND COUNTY SHORT PLAT NO. 247/95,R32910.2510 AS APPROVED DECEMBER 6, 1996 AND RECORDED DECEMBER 6, 1996, IN VOLUME 3 OF SHORT PLATS, PAGE 127,UNDER AUDITOR'S FILE NO. 96020855, RECORDS OF ISLAND COUNTY, WASHINGTON.ANDTHE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 10, TOWNSHIP 20 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN ANDTHE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 10, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN,EXCEPT THE EAST 30 FEET THEREOF FOR COUNTY ROAD KNOWN AS LANGLEY ROAD;ALSO EXCEPT THE NORTH 10 ACRES THEREOF AND THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 10, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN;TOGETHER WITH AN EASEMENT FOR INGRESS, EGRESS AND UTILITIES, OVER, UNDER AND ACROSS THE SOUTH 60 FEET OF THAT PORTION OF THE NORTHEAST QUARTER OFTHE SOUTHWEST QUARTER LYING EAST OF THE COUNTY ROAD KNOWN AS MAXWELTON ROAD AND ALSO THE SOUTH 60 FEET OF THE WEST 60 FEET OF THE NORTHWESTQUARTER OF THE SOUTHEAST QUARTER ALL IN SECTION 10, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN ANDTHE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 15, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN;EXCEPT FOR THE WEST 320 FEET AS MEASURED PERPENDICULAR TO AND PARRALLEL WITH THE WEST LINE OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OFSECTION 15, TOWNSHIP 29, NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN;TOGETHER WITH A NON-EXCLUSIVE EASEMENT FOR INGRESS, EGRESS AND UTILITIES, OVER AND UNDER AND ACROSS THE NORTH 60 FEET OF THE ABOVE DESCRIBED WEST320 FEET OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 15;ALSO TOGETHER WITH AND EASEMENT FOR INGRESS AND EGRESS, OVER THE SOUTH 40 FEET OF THE NORTH 60 FEET OF THAT PORTION OF THE NORTHEAST QUARTER OF THENORTHWEST QUARTER OF SECTION 15, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WELLAMETTE MERIDIAN, LYING EASTERLY OF THE COUNTY ROAD.ALL SITUATE IN ISLAND COUNTY, WASHINGTON.

ADDITIONAL DOCUMENTS

TOPOGRAPHIC SURVEY	PERFORMED BY:	HARMSEN LLC
GEOTECHNICAL REPORT	PERFORMED BY:	PALMER GEOTECHNICAL CONSULTANTS INC.
TRAFFIC REPORT	PERFORMED BY:	TRANSPORTATION ENGINEERING NORTHWEST
WATER SUPPLY ANALYSIS	PERFORMED BY:	DCG-WATERSHED
WATER SUPPLY SYSTEM	PERFORMED BY:	FACET NW

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T1.2 CODE & PERMIT NOTES
T1.3 LIFE SAFETY PLAN

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S2 SURVEY SHEET 2
S3 SURVEY SHEET 3
S4 SURVEY SHEET 4
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CL02 NOTES
CL03 OVERALL PLAN
CL04 SOILS LOG SITE PLAN
CL05 DETAILS
CL06 DETAILS
CL07 DETAILS
CL08 DETAILS
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CL10 DETAILS
CL11 DETAILS
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CW06 WATER MAIN PLAN & PROFILE STA 5+00 TO 8+00
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CW08 WATER MAIN PLAN & PROFILE STA 23+30 TO 28+90
CW09 WATER MAIN PLAN & PROFILE STA 28+90 TO 34+50
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MR.4 DETAILS
MR.5 DETAILS
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MR.7 DETAILS

GENERAL NOTES

1. DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY AND WHAT IS CONTAINED IN ONE SHALL BE CONSIDERED TO BE INCLUDED IN BOTH.

2. THE CONTRACT DOCUMENTS ARE COMPRISED OF THE DRAWINGS, PROJECT MANUAL AND ADDENDA (IF ANY). THE CONTRACT DOCUMENTS ARE CONSIDERED INCOMPLETE UNLESS ALL ELEMENTS LISTED ARE PRESENT.

3. IN THE CASE OF A CONFLICT BETWEEN ANY ASPECT OF THE CONTRACT DOCUMENTS AND ANOTHER, CONTACT THE ARCHITECT IMMEDIATELY FOR DIRECTION.

4. ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND ORDINANCES. IF A CONFLICT ARISES BETWEEN WHAT IS SHOWN IN THE CONTRACT DOCUMENTS AND AN APPLICABLE CODE, PROMPTLY NOTIFY ARCHITECT FOR DETERMINATION OF HOW TO PROCEED

5. DO NOT SCALE DRAWINGS

6. PERFORM EXCAVATION & FOUNDATION WORK IN CONFORMANCE WITH THE SOILS REPORT AND CONSTRUCTION DOCUMENTS

7. DRAWINGS INDICATE GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER, TYPICAL DETAILS SHALL APPLY.

GENERAL LEGEND

ROOM NAME / 101	ROOM NAME ROOM NUMBER
1i	WALL/ PARTITION TYPE - SEE A7.1
101	DOOR NUMBER SEE A7.2
F	WINDOW TAG SEE A7.2
F.E.C.	FIRE EXTINGUISHER RECESSED MTD.
ELEVATION — 1 / A3.1	DRAWING # SHEET #
BUILDING OR WALL SECTION — 1 / A1.1	DRAWING # SHEET #
DETAILS — 1 / A1.1	DETAIL # SHEET #
ELEVATION - HEIGHT OF MATERIAL	

ABBREVIATIONS

∠	ANGLE	FND.	FOUNDATION	PLAM.	PLASTIC LAMINATE
℄	CENTER LINE	F.O.C.	FACE OF CONCRETE	PLMB'G	PLUMBING
#	NUMBER	F.O.F.	FACE OF FOUNDATION	PR.	PAIR
℗	PROPERTY LINE	F.O.I.C.	FURNISHED BY OWNER / INSTALLED BY CONTRACTOR	PT.	PINT, POINT, PAINT
				P.T.	PRESSURE TREATED
A.B.	ANCHOR BOLT	F.O.I.O	FURNISHED BY OWNER/ INSTALLED BY OWNER	PTD.	PAINTED
AC.	ACCESS CONTROL			PTN.	PARTITION
A/C	AIR CONDITIONING	F.O.M	FACE OF MASONRY	P.V.C.	POLYVINYL CHLORIDE PIPE
A.C.T.	ACOUSTICAL TILE CEILING	F.O.S.	FACE OF STUD OR STRUCTURE		
ADJ.	ADJACENT	F.P.	FIRE PROOF	Q.T.	QUARRY TILE
A.F.F.	ABOVE FINISH FLOOR				
ALT.	ALTERNATE	GA.	GAUGE	R.	RADIUS, RISER
ALUM	ALUMINUM	GALV.	GALVANIZED	RB	RUBBER BASE
AO	ACCESS OPEN	G.C.	GENERAL CONTRACTOR	REF.	REFER(ENCE)
AQ	AQUATIC	GLULAM	GLUE LAMINATED	REFR.	REFRIGERATOR
ARCH.	ARCHITECT(URAL)	GND.	GROUND	REINF.	REINFORCED
AVG.	AVERAGE	GR.	GRADE	REQ.	REQUIRED
A.W.P.	ACOUSTICAL WALL PANEL	G.W.B.	GYPSUM WALLBOARD	RESIL.	RESILIENT
				REV.	REVISION, REVISED
BD.	BOARD	H.B.	HOSE BIB	R.O.	ROUGH OPENING
BLK'G.	BLOCKING	H.C.	HOLLOW CORE	R.R.	RESTROOM
BLDG	BUILDING	HDBD.	HARDBOARD	RWL	RAIN WATER LEADER
BOT.	BOTTOM	HDR.	HEADER		
B.O.	BOTTOM OF	HDWR.	HARDWARE	S.	SOUTH
		HDWD.	HARDWOOD	SAM	SELF-ADHERED MEMBRANE
CAB.	CABINET	H.M.	HOLLOW METAL	S.C.	SOLID CORE
C.B.	CATCH BASIN	HR	HOUR	S.C.D.	SEAT COVER DISPENSER
C.F.	CUBIC FEET	H.V.A.C	HEATING / VENTILATION / AIR CONDITIONING	S.D.	SOAP DISPENSER, STORM DRAIN
CHEM	CHEMICAL			S.F.	SQUARE FEET
C.J.	CONTROL JOINT			SHT.	SHEET
CLG.	CEILING	I.D.	INSIDE DIAMETER (DIM.)	SHWR.	SHOWER
CLR.	CLEAR(ANCE)	INSUL	INSULATED / INSULATION	SIM.	SIMILAR
C.M.U.	CONCRETE MASONRY UNIT	INT.	INTERIOR	S.N.D.	SANITARY NAPKIN DISPENSER
C.O.	CLEAN OUT			S.N.R.	SANITARY NAPKIN RECEPTACLE
COL.	COLUMN	JAN	JANITOR	S.S.	STAINLESS STEEL
CONC.	CONCRETE	JT.	JOINT	SS	SOLID SURFACE
CONT.	CONTINUOUS			STL.	STEEL
COORD.	COORDINATE	KIT.	KITCHEN	STA.	STATION
CPT.	CARPET			S.T.C	SOUND TRANSMISSION CLASS
C.T.	CERAMIC TILE	LAF	LIQUID-APPLIED MEMBRANE FLASHING	ST.S.	STANDING SEAM
C.Y.	CUBIC YARDS	L.F.	LINEAL FEET	STOR	STORAGE
		LT.WT.	LIGHT WEIGHT	STRUCT.	STRUCTURE/STRUCTURAL
D.F.	DRINKING FOUNTAIN			SUB.	SUBSTITUTE
D.H.	DOUBLE HUNG	M	MEN	SUSP.	SUSPENDED
DIM.	DIMENSION	MAINT.	MAINTENANCE	SV	SHEET VINYL
DIR	DIRECTOR	MAS.	MASONRY	SYM.	SYMMETRICAL
DISP.	DISPENSER	MAX.	MAXIMUM	SYS.	SYSTEM
DIV.	DIVISION	MECH.	MECHANICAL		
DN.	DOWN	M.B.	MACHINE BOLT	T.	TREAD
DR.	DOOR	M.B.	MARKER BOARD	TB	TACK BOARD
D.S.	DOWN SPOUT	M.D.F.	MEDIUM DENSITY FIBERBOARD	T.O.C.	TOP OF CURB
DWG.	DRAWING	M.D.O.	MEDIUM DENSITY OVERLAY	TEL.	TELEPHONE
		M.D.X.	MEDIUM DENSITY EXTERIOR OVERLAY	TER	TERRAZZO
E	EAST (COORDINATE)	MECH.	MECHANICAL	T.O.P.	TOP OF PLATE OR PAVEMENT
EA.	EACH	MEMB.	MEMBRANE	T.P.D.	TOILET PAPER DISPENSER
E.B.	EXPANSION BOLT	MFG.	MANUFACTURING	T.O.W.	TOP OF WALL
E.J.	EXPANSION JOINT	MFR.	MANUFACTURER	TYP.	TYPICAL
ELEC.	ELECTRICAL	MIN.	MINIMUM		
ELEV.	ELEVATION	MIR.	MIRROR	UNF.	UNFINISHED
ENCL.	ENCLOSURE	M.O.	MASONRY OPENING	UNIV.	UNIVERSAL
EQ.	EQUAL	MTG.	MEETING	U.O.N.	UNLESS OTHERWISE NOTED
EQUIP.	EQUIPMENT	MTL.	METAL		
E.W.C.	ELECTRIC WATER COOLER	MULTI.	MULTIPURPOSE	V.	VENT
EXT.	EXTERIOR			V.B.	VAPOR BARRIER
		N.	NORTH	V.C.T.	VINYL COMPOSITION TILE
F.A.	FIRE ALARM	N.I.C.	NOT IN CONTRACT		
F.C.O.	FLOOR CLEANOUT	NOM.	NOMINAL	W.	WEST, WIDTH
F.D.	FLOOR DRAIN	N.T.S.	NOT TO SCALE	W.C.	WATER CLOSET
F.E.	FIRE EXTINGUISHER			WD.	WOOD
F.E.C.	FIRE EXTINGUISHER CABINET	O.C.	ON CENTER	W.G.	WIRED GLASS
F.F.	FINISH FLOOR	OCC	OCCUPANCY	W.H.	WATER HEATER
F.F.E.	FINISH FLOOR ELEVATION	O.H.	OPPOSITE HAND	WIN.	WINDOW
F.S.	FROM SLAB	OPN'G.	OPENING	W.P.	WATER PROOF(ING)
F.H.	FIRE HYDRANT	OPP.	OPPOSITE	W.R.	WATER RESISTANT
FIN.	FINISH			WRB	WEATHER RESISTANT BARRIER
FIT	FITNESS	PERF.	PERFORATED	WT.	WEIGHT
		P.L.	PROPERTY LINE	W.W.F.	WELDED WIRE FABRIC
				W.O.M.	WALK OFF MAT

SOUTH WHIDBEY PARKS & REC AQUATIC RECREATION CENTER

5491 MAXWELTON RD
LANGLEY, WA 98260

South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description
1		
2		

CONTENTS:

PROJECT INFO

SCALE: 1/4" = 1'-0"
DRAWN: LP / ES / AP
CHECKED: PC / EW
PROJECT NO: 2022021.000

SHEET:

T1.0

GOVERNING CODES

ISLAND COUNTY MUNICIPAL CODE
2021 INTERNATIONAL BUILDING CODE - WASHINGTON STATE AMENDMENTS
ICC/ANSI 1171-2009 ACCESSIBILITY CODE WITH WASHINGTON STATE AMENDMENTS
2021 ENERGY CODE - WASHINGTON STATE AMENDMENTS
2021 INTERNATIONAL MECHANICAL CODE
2021 UNIFORM PLUMBING CODE
2019 NATIONAL ELECTRICAL CODE
2021 INTERNATIONAL FIRE CODE WITH WASHINGTON STATE AMENDMENTS

ZONING CODE NOTES

PK (PARKS) - RURAL LANDS DESIGNATION (R)
(ISLAND COUNTY MUNICIPAL CODE: CH. 17.03.072)

TABLE 17.03.035 PERMITTED USES: COMMUNITY CENTER CONDITIONAL USE, TYPE 2 DECISION

17.03.072 - PARKS (PK) ZONE
A.1 DESIGNATION CRITERIA AND AREAS. EXISTING COMMUNITY PARKS.

B. LOT/DENSITY: THE MINIMUM LOT SIZE SHALL BE CONSISTENT WITH THE AREA REQUIRED TO MEET BUILDING SETBACKS, LOT COVERAGE, OPEN SPACE AND DEVELOPMENT STANDARDS.

C. SETBACKS SHALL BE CONSISTENT FOR SINGLE FAMILY DWELLING SETBACKS PER SECTION 17.03.180.S
SECTION 17.03.180.S.3
ARTERIAL (RR): 30' *
SIDE YARD: 5'
REAR YARD: 5'
SECTION 17.03.180.S.6
SIGHT TRIANGLE: 30' X 30' CLEAR VISION AREA AT THE INTERSECTION OF THE FRONT AND STREET SIDE YARD LOT LINES.

* ARTERIAL SET BACK TO BE FROM THE LINE OF 10' ROW DEED.

VARIANCE APPLICATION TO ALLOW ABOVE GRADE UTILITIES INCLUDING GENERATOR AND TRANSFORMER WITHIN THE 30' SETBACK FROM THE ROW DEED. 30' SETBACK FROM THE PROPERTY LINE TO BE MAINTAINED.

D. MAX HEIGHT: 35' - ***PROJECT MAX. HEIGHT IS 28'-10"***
(SEE AVERAGE GRADE PLANE DIAGRAM AND BUILDING HEIGHT DIAGRAM ON T1.2)

E. LOT COVERAGE: IMPERVIOUS SURFACE AND BUILDING COVERAGE PER 17.03.180.S.1.
SECTION 17.03.180.S.1
NON RESIDENTIAL: MAXIMUM IMPERVIOUS SURFACE RATIO OF 10% FOR PARCELS GREATER THAN 5 ACRES IN SIZE - *PROJECT IMPERVIOUS SURFACE IS 5.7%*
(SEE OPEN IMPERVIOUS SURFACE DIAGRAM BELOW)

F. OPEN SPACE: MIN. 75% OF PARCEL - *PROJECT OPEN SPACE IS 94.3%*
(SEE OPEN SPACE DIAGRAM BELOW)

CH. 17.03.180S - LAND USE STANDARDS

P. NON RESIDENTIAL DESIGN, LANDSCAPE AND SCREENING GUIDELINES:
1. BUILDING DESIGN IN THE R, RR, RA, RF, AND CA ZONES:
a. BUILDINGS SHALL BE DESIGNED TO APPEAR SIMILAR IN HEIGHT, SIZE, PLACEMENT, STYLE, MATERIALS, COLOR AND DESIGN TO RESIDENTIAL OR AGRICULTURAL STRUCTURES, EXCEPT THAT FOR ESSENTIAL PUBLIC FACILITIES THE APPROVING AUTHORITY MAY WAIVE DESIGN REQUIREMENTS AS DETERMINED BY THE APPROVING AUTHORITY TO BE NECESSARY AND APPROPRIATE TO THE TYPE AND LOCATION OF THE ESSENTIAL PUBLIC FACILITY.
b. BRIGHT OR BRILLIANT COLORS SHALL NOT BE USED. MATERIALS USED FOR EXTERIOR SURFACES OF ALL STRUCTURES SHALL BLEND IN COLOR, HUE AND TONE WITH THE CHARACTERISTICS OF THE SURROUNDING NATURAL TERRAIN TO AVOID HIGH CONTRAST.
d. MAXIMUM BUILDING HEIGHT IS THIRTY-FIVE (35) FEET.
e. LARGE DOORS AND BLANK WALLS VISIBLE FROM THE ADJACENT PUBLIC ROAD OR ADJOINING PRIVATE PROPERTY SHALL BE AVOIDED. WINDOWS, WALL MODULATION, MATERIALS OF VARYING TEXTURE AND LANDSCAPING SHALL BE USED TO BREAK UP BLANK WALLS.
3. LANDSCAPE, BUFFERING, AND SCREENING TO BE PROVIDED IN ALIGNMENT WITH SECTION REQUIREMENTS.

Q.1. PARKING: *PROPOSED USE OF AQUATICS IS NOT IDENTIFIED USE IN THE MUNICIPAL CODE. APPLICANT SUBMITTED MEMO OUTLINING PROPOSED PARKING RATIO TO THE ISLAND COUNTY PLANNING DEPARTMENT. PROPOSES A PARKING METRIC OF (1 STALL PER 350 SF) WOULD BE APPROPRIATE BASED ON SIMILAR FACILITIES IN THE AREA.*

23,661 SF / 350 SF = 68 SPACES REQUIRED. 81 SPACES PROPOSED.

Q.4.C EACH PARKING SPACE FOR A STANDARD SIZE CAR SHALL HAVE A MINIMUM AREA OF 162 SQUARE FEET, AND A MINIMUM WIDTH OF NINE (9) FEET. EACH SPACE FOR A COMPACT CAR SHALL HAVE A MINIMUM AREA OF 128 SQUARE FEET AND A MINIMUM WIDTH OF EIGHT (8) FEET. SPACES FOR THE COMPACT CARS SHALL NOT EXCEED THIRTY (30) PERCENT OF THE TOTAL SPACES, AND SHALL BE DISTRIBUTED THROUGHOUT THE PARKING FACILITY.

0 COMPACT PARKING STALLS = 0%
81 REGULAR PARKING STALLS = 100%

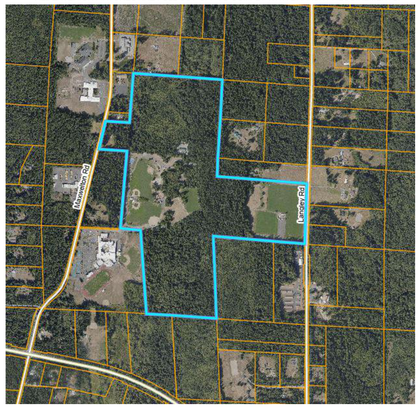
Q.6. LOADING AND UNLOADING: EACH COMMERCIAL OR INDUSTRIAL USE, PUBLIC OR SEMI-PUBLIC BUILDING OR USE, OR SCHOOL LARGER THAN THIRTY-FIVE (35) STUDENTS, SHALL PROVIDE SPACE, EITHER INSIDE OR OUTSIDE A BUILDING, FOR THE LOADING AND THE UNLOADING OF GOODS AND MATERIALS. SUCH SPACE SHALL HAVE A MINIMUM WIDTH OF TEN (10) FEET, A MINIMUM LENGTH OF TWENTY-FIVE (25) FEET AND, IF COVERED, A MINIMUM HEIGHT OF FIFTEEN (15) FEET. SUCH SPACE SHALL BE PROVIDED WITH ACCESS TO AN ALLEY, OR A STREET AND SHALL BE SCREENED FROM ADJOINING NON-COMMERCIAL, NON-INDUSTRIAL USES AND PUBLIC RIGHTS-OF-WAY.

R.7.h. SIGNAGE - MAX. SIZE & HEIGHT - (PK) DESIGNATION

PUBLIC USE SIGNS -	48 SF AREA
FREE STANDING SIGNS -	8' HEIGHT

R.11.d(i) LIGHTING FIXTURES MUST BE EITHER FULL CUT-OFF, FULLY SHEILDED, FLUSH MOUNTED, OR HOODED AND ORIENTED TOWARDS THE GROUND.

ALL EXTERIOR FIXTURES ARE FULL CUT-OFF TO COMPLY WITH DARKSKY REQUIREMENTS.



LOT COVERAGE AND BUILDING COVERAGE
(ISLAND COUNTY MUNICIPAL CODE: CH. 17.03.072)

SECTION 17.03.180.S.1

PACEL = 6,447,000 SF

EXISTING IMPERVIOUS: 309,287 SF
NEW IMPERVIOUS: 64,839 SF

TOTAL IMPERVIOUS: 374,678 SF

EXISTING BUILDING: 15,107 SF
NEW BUILDING: 27,046 SF (WITH ROOF OVERHANG)
(23,981 SF W/O ROOF)
TOTAL BUILDING: 42,153 SF

NON RESIDENTIAL: MAXIMUM IMPERVIOUS SURFACE RATIO OF 10% FOR PARCELS GREATER THAN 5 ACRES IN SIZE
369,501 / *6,447,000 SF = SITE IMPERVIOUS SURFACE IS 5.7%*

BUILDING COVERAGE: MAX 10% OF PARCEL
42,153 / *6,447,000 SF = SITE BUILDING COVERAGE IS 0.7%*

OPEN SPACE: MIN. 75% OF PARCEL
(6,447,000 SF - 369,501) / 6,447,000 SF = SITE OPEN SPACE 94.3%

PERMIT NOTES

1. DEFERRED PERMIT SUBMITTALS INCLUDE BUT ARE NOT LIMITED TO:
STORMWATER POLLUTION PREVENTION PLAN (SWPPP), FIRE ALARM, AUTOMATIC FIRE SPRINKLER SYSTEM, FALL PROTECTION SYSTEM, AND SOLAR PV SYSTEM.

2. SEE STRUCTURAL FOR SPECIAL INSPECTION REQUIREMENTS AND ADDITIONAL DEFERRED PERMIT SUBMITTALS

3. GEOTECHNICAL INSPECTIONS SCHEDULE INCLUDES PRECONSTRUCTION MEETING, SUB/SURFACE DRAINAGE INSTALLATION, EROSION CONTROL - PERMANENT AND TEMPORARY, OBSERVATION AND MONITORING EXCAVATION, VERIFYING FILL AND COMPACTION, SOIL BEARING VERIFICATION.

ENERGY CODE NOTES

2021 WASHINGTON STATE ENERGY CODE
CLIMATE ZONE: ISLAND COUNTY - 4C

TABLE C402.1.3

		PROVIDED FOR C406.2.12 CREDIT
ROOF - INSULATION ABOVE DECK:	MIN R- 38ci	*PROVIDED* R-48
WALL ABOVE GRADE - STEEL FRAMED:	MIN R-13 + R-10ci	*PROVIDED* R-21 + R-10.5ci & R-21ci (SEE BLDG SECTIONS)
UNHEATED SLABS:	R-10 FOR 24" PERIMETER	*PROVIDED* R-10
OPAQUE SWINGING DOORS:	U-0.37	U-0.315

C402.2.4 SLABS-ON-GRADE PERIMETER INSULATION. WHERE THE SLAB-ON-GRADE IS IN CONTACT WITH THE GROUND, THE MINIMUM THERMAL RESISTANCE (R-VALUE) OF THE INSULATION AROUND THE PERIMETER OF UNHEATED OR HEATED SLAB-ON-GRADE FLOORS DESIGNED IN ACCORDANCE WITH THE R-VALUE METHOD OF SECTION C402.1.3 SHALL BE AS SPECIFIED IN TABLE C402.1.3. THE INSULATION SHALL BE PLACED ON THE OUTSIDE OF THE FOUNDATION OR ON THE INSIDE OF THE FOUNDATION WALL. THE INSULATION SHALL EXTEND DOWNWARD FROM THE TOP OF THE SLAB FOR A MINIMUM DISTANCE AS SHOWN IN THE TABLE OR TO THE TOP OF THE FOOTING, WHICHEVER IS LESS, OR DOWNWARD TO AT LEAST THE BOTTOM OF THE SLAB AND THEN HORIZONTALLY TO THE INTERIOR OR EXTERIOR FOR THE TOTAL DISTANCE SHOWN IN THE TABLE. INSULATION EXTENDING AWAY FROM THE BUILDING SHALL BE PROTECTED BY PAVEMENT OR BY A MINIMUM OF 10 INCHES (254 MM) OF SOIL. INSULATION COMPLYING WITH TABLE C402.1.3 SHALL BE PROVIDED UNDER THE ENTIRE AREA OF HEATED SLABS-ON-GRADE.

C402.4 BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTOR AND SHGC REQUIREMENTS. SKYLIGHTS U-FACTOR MAXIMUM OF U-0.50 AND SHGC MAXIMUM OF 0.35.
PROPOSED SKYLIGHT U-FACTOR = U-0.425
PROPOSED SKYLIGHT SHGC = 0.315

C402.4.1 MAXIMUM GLAZING IS 30% OF GROSS ABOVE GRADE WALL AREA

C402.4.1.1 VERTICAL FENESTRATION MAXIMUM AREA WITH HIGH PERFORMANCE ALTERNATES. FOR BUILDINGS THAT COMPLY WITH SECTION C402.4.1.1.1 OR C402.4.1.1.2, THE TOTAL BUILDING VERTICAL FENESTRATION AREA IS PERMITTED TO EXCEED 30 PERCENT BUT SHALL NOT EXCEED 40 PERCENT OF THE GROSS ABOVE GRADE WALL AREA FOR THE PURPOSE OF PRESCRIPTIVE COMPLIANCE WITH SECTION C402.1.4.
PROPOSED VERTICAL FENESTRATION: 34.3% , SEE CALCULATIONS BELOW

C402.4.1.1.2 HIGH-PERFORMANCE FENESTRATION. ALL OF THE FOLLOWING REQUIREMENTS SHALL BE MET:
1. ALL VERTICAL FENESTRATION IN THE BUILDING SHALL COMPLY WITH THE FOLLOWING U-FACTORS:
. 1.1 U-VALUE FOR FIXED STOREFRONT AND CURTAINWALL FENESTRATION: 0.31 MAX
1.2 U-VALUE FOR OPERABLE STOREFRONT AND CURTAINWALL FENESTRATION: 0.36 MAX
1.3 U-VALUE FOR ENTRANCE DOORS: 0.6 MAX
1.4 U-VALUE FOR ALL OTHER VERTICAL FENESTRATION FIXED: 0.23 MAX
1.5 U-VALUE FOR ALL OTHER VERTICAL FENESTRATION OPERABLE: 0.23 MAX
2. SHGC FOR ALL VERTICAL FENESTRATION SHALL BE NO MORE THAN 0.9 TIMES MAXIMUM SHGC VALUES LISTED IN TABLE C402.4
C402.4 SHGC PF < 0.2 = 0.38 , 0.38 X 0.9 = 0.34

GLAZED AREA
- NORTH ELEVATION 1,862 SQFT
- EAST ELEVATION 781 SQFT
- SOUTH ELEVATION 2,400 SQFT
- WEST ELEVATION 487 SQFT
- PARTIAL WEST ----- SQFT

ABOVE GRADE WALL AREA
- NORTH ELEVATION 4,534 SQFT
- EAST ELEVATION 3,919 SQFT
- SOUTH ELEVATION 3,870 SQFT
- WEST ELEVATION 2,071 SQFT
- PARTIAL WEST 1,723 SQFT

TOTAL GLAZED AREA.....5,530 SQFT
TOTAL ABOVE GRADE WALL AREA.....16,117 SQFT

ACTUAL GLAZING 5,530 SQFT / 16,117 SQFT = 34.3% < 40% MAX = CODE COMPLIANT

TOTAL SKYLIGHT AREA..... 309 SQFT
TOTAL ROOF AREA.....23,661 SQFT

ACTUAL SKYLIGHT AREA PERCENTAGE 309 SQFT/ 23,661 SQFT = 1.3% < 3% = CODE COMPLIANT

C402.5
THE THERMAL ENVELOPE SHALL COMPLY WITH SECTIONS C402.5.1 THROUGH C402.5.8.
C402.5.1 CONTINUOUS AIR BARRIER SHALL BE PROVIDE THROUGHOUT THE ENVELOPE
C402.5.3 THE COMPLETED BUILDING SHALL BE TESTED AND THE AIR LEAKAGE RATE OF THE BUILDING ENVELOPE SHALL NOT EXCEED 0.25 CFM/FT2 OF THE BUILDING THERMAL ENVELOPE AREA AT A PRESSURE DIFFERENTIAL OF 0.3 INCHES WATER GAUGE.

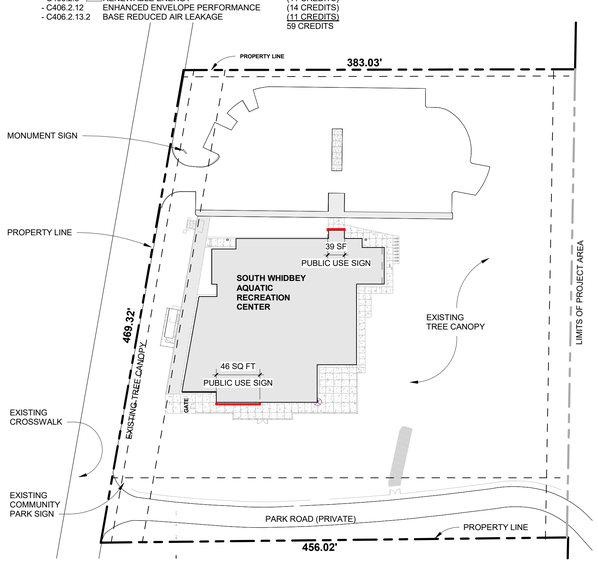
C402.5.9
ALL PRIMARY BUILDING ENTRANCES SHALL BE PROTECTED WITH AN ENCLOSED VESTIBULE WITH ALL DOORS EQUIPPED WITH SELF-CLOSING DEVISES. DISTANCE BETWEEN THE DOORS SHALL BE NOT LESS THAN 7 FEET. SEE MECHANICAL AND ELECTRICAL FOR ADDITIONAL ENERGY CODE NOTES.

C403 MECHANICAL SYSTEMS
MECHANICAL SYSTEMS AND EQUIPMENT SERVING HEATING, COOLING, VENTILATING, AND OTHER NEEDS SHALL COMPLY WITH SECTION 403. SEE MECHANICAL.

C405 ELECTRICAL POWER AND LIGHTING SYSTEMS
LIGHTING SYSTEM CONTROLS, MAXIMUM LIGHTING POWER FOR INTERIOR AND EXTERIOR APPLICATIONS, ELECTRICAL ENERGY CONSUMPTION SHALL COMPLY WITH SECTION C404. SEE ELECTRICAL.

C406 EFFICIENCY PACKAGES
ENERGY MEASURE CREDIT REQUIREMETNTS - NEW BUILDING, GOUP A = 49 CREDITS REQUIRED

- C406.2.2.2	IMPROVE COOLING AND FAN EFFICIENCY	(2 CREDITS)
- C406.2.3.1	10% REDUCED LIGHTING POWER	(15 CREDITS)
- C406.2.4.2	ENHANCED LIGHTING CONTROL	(6 CREDITS)
- C406.2.5	RENEWABLE ENERGY	(11 CREDITS)
- C406.2.12	ENHANCED ENVELOPE PERFORMANCE	(14 CREDITS)
- C406.2.13.2	BASE REDUCED AIR LEAKAGE	(11 CREDITS)
		59 CREDITS



1 SIGNAGE DIAGRAM
1" = 60'-0"

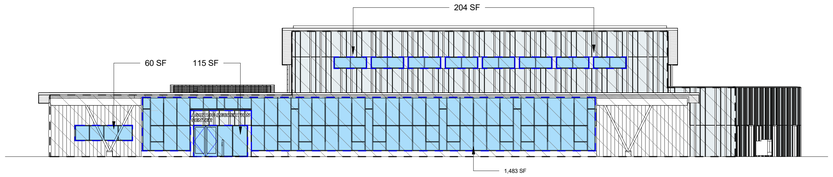
17.03.180. R.7.h. Signage - Max. Size & Height - (PK) Designation

Public Use Signs (Area)	48 SF
Free Standing Signs (Height)	8'

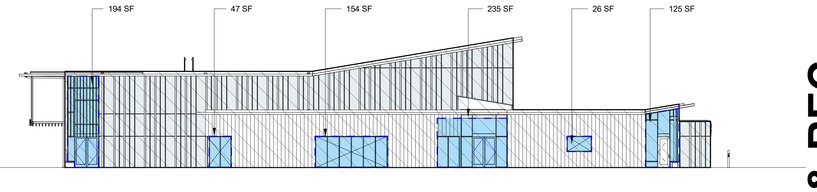
17.03.040 Sign, public use
means a sign that provides information for a public purpose, benefiting no specific property, person, corporation or firm directly, and established by a governmental agency.

BUILDING FOOTPRINT

SIGNAGE

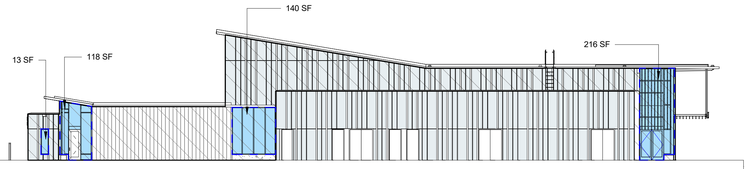


2 GLAZING DIAGRAM - NORTH ELEVATION
1/16" = 1'-0"
TOTAL WALL AREA: 4,534 SF
TOTAL GLAZING: 1,862 SF

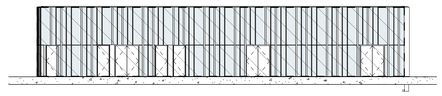


3 GLAZING DIAGRAM - EAST ELEVATION
1/16" = 1'-0"
TOTAL WALL AREA: 3,919 SF
TOTAL GLAZING: 781 SF

4 GLAZING DIAGRAM - SOUTH ELEVATION
1/16" = 1'-0"
TOTAL WALL AREA: 3870 SF
GLAZING AREA: 2400 SF



5 GLAZING DIAGRAM - WEST ELEVATION
1/16" = 1'-0"
TOTAL WALL AREA: 2,071 SF
TOTAL GLAZING: 487 SF



TOTAL WALL AREA: 1,723 SF

6 GLAZ. - PARTIAL WEST ELEV.
1/16" = 1'-0"

ISLAND COUNTY
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07/18/2025
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10644 REGISTERED ARCHITECT
PAUL ROSS CURTIS
STATE OF WASHINGTON

S WHIDBEY PARKS & REC AQUATIC REC CENTER

5491 MAXWELTON RD
LANGLEY, WA 98260

South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE

Rev #	Date	Description
1	JUN 19 2025	BUILDING PERMIT COMMENT RESPONSES #1
2		

CONTENTS:
CODE & PERMIT NOTES

SCALE: **As indicated**
DRAWN: **LP / ES / AP**
CHECKED: **PC / EW**
PROJECT NO: **2022021.000**

SHEET:
T1.1

BUILDING CODE NOTES

BUILDING SUMMARY:

First Floor:
A3 Occupancy

TOTAL GROSS FIRST FLOOR = 24,027 SF

BUILDING CODE SUMMARY:

Chapter 3 – Use and Occupancy
303.4 Assembly Group A-3 for assembly and community center spaces *(Multipurpose & Events)*
304.1 Business B for office spaces, training spaces, tutoring, gymnastics, education services above grade 12

Chapter 5 – Building Heights and Area
504.2 Mixed Occupancy. In a building containing mixed occupancies in accordance with Section 508, no individual occupancy shall exceed the height and number of story limits specified in this section for the applicable occupancies.

Table 504.3 Allowable Height above grade plane
A, B = Type IIIB = 75 feet

Table 504.4 Allowable Stories above grade plane
A-3 = Type IIIB = 3 stories
B = Type IIIB = 4 stories

Section 506 Building Area
506.2.4 Mixed-occupancy, multi-story buildings.

Table 506.2
A-3 SM Type IIIB = 28,500 SF - MOST RESTRICTIVE
B SM Type IIIB = 57,000 SF

506.3.1 Single Occupancy – one-story buildings (assumes A-3 most stringent occupancy)
Aa = [At + (NS × If)]

Aa = [28,500 + (9,500 x .50)] (using # for Type IIIB for A3 – SM (mustang)
Aa = [28,500 + 4,750]
Aa = [33,250] maximum gross building area with frontage increase

33,250 SF > GROSS 24,027 SF

506.3 Frontage Increase
Based on table 506.3.3
If = linear ft fronting open public space/(total building perimeter)
% of Building Perimeter [50% = x ÷ 75%] = .3
Frontage Increase Factor = .15

Section 508 Mixed Use and Occupancy
508.1 General. Each portion of a building shall be individually classified in accordance with Section 302.1 Where a building contains more than one occupancy group, the building or portion thereof shall comply with the applicable provisions of Section 508.2, 508.3 or 508.4 or a combination of these sections.

508.3 Nonseparated occupancies. Buildings or portions of buildings that comply with the provisions of this section shall be considered as nonseparated occupancies.
508.3.2 Allowable building area and height. The allowable building area and height of the building or portion thereof shall be based on the most restrictive allowances for the occupancy groups under consideration for the type of construction of the buildings in accordance with Section 503.1.
508.3.3 Separation. No separation is required between nonseparated occupancies.

Table 508.4 Required separation of Occupancies

Not required as building is designed to most restrictive occupancy - A occupancy.

Chapter 6 – Types of Construction

Table 601 Type III B:
Primary structure – 0 hr.
Bearing walls
Exterior – 2 hr. (Project does not have exterior bearing walls - N/A)
Interior – 0 hr.
Non-bearing partitions
Exterior – see Table 602 – all walls are more than 30' fire separation – 0 hr.
Interior – 0 hr.
Floor construction and secondary members – 0 hr.
Roof construction and secondary members – 0 hr.

602.3 Type III construction is that type of construction in which the exterior walls are of *noncombustible* materials and the interior building elements are of any material permitted by this code. Fire-retardant-treated wood framing and sheathing complying with Section 2303.2 shall be permitted within exterior wall assemblies of a 2-hour rating or less

Chapter 7 – Fire and Smoke Protection Features

704.10 Exterior Structural Members
Load-bearing structural members located within the exterior walls or on the outside of a building or structure shall be provided with the highest fire-resistance rating as determined in accordance with the following:
As required by Table 601 for the type of building element based on the type of construction of the building.
As required by Table 601 for exterior bearing walls based on the type of construction.
As required by Table 705.5 for exterior walls based on the fire separation distance.

Chapter 10 – Means of Egress
Section 1004 – Occupant Load – see charts
Section 1004.3 - All A Occupancy rooms shall have a maximum occupancy load sign posted. See Signage Sheet.

Section 1007.1.1 - Two exits or exit access doorways. Where two exits, exit access doorways, exit access stairways or ramps, or any combination thereof, are required from any portion of the exit access, they shall be placed a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the building or area to be served measured in a straight line between them. Where a building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or 903.3.1.2, the separation distance shall be not less than one-third of the length of the maximum overall diagonal dimension of the area served.

Section 1009 – Accessible Means of Egress

Chapter 11 – Accessibility
Table 1106.1 Accessible Parking Spaces.
51-75 parking spaces: 3 accessible spaces min.
75 - 100 parking spaces: 4 accessible spaces min.

Include one loading zone space that is Accessible.

Chapter 29 – Plumbing Systems
Table 2902.1 Minimum number of required plumbing fixtures
See charts

ROOF DRAINAGE CALCULATIONS ARE SHOWN ON THE ROOF PLAN SHEETS

OCCUPANT LOAD - IBC

Number	Name	Gross Area	Non-Occupiable Room Area	Net Room Area	Classification (Chapter 3, IBC 2021)	Area Per Occupant (Table 1004.5, IBC 2021)	Occupant Load
001	TEACHING POOL	2150 SF	0 SF	2150 SF	Skating Rinks, Swimming Pools - Rink and Pool	50 SF	43
002	LAP POOL	3513 SF	0 SF	3513 SF	Skating Rinks, Swimming Pools - Rink and Pool	50 SF	71
003	SPA	100 SF	0 SF	100 SF	Skating Rinks, Swimming Pools - Rink and Pool	50 SF	2
100	VEST	104 SF	0 SF	104 SF	Unoccupied Space	0 SF	
101	INDOOR FOREST	1081 SF	0 SF	1081 SF	~~Unoccupied Space~~ Assembly without Fixed Seats	~~0 SF~~ 15 SF	71
102	LOBBY	1212 SF	0 SF	1212 SF	~~Unoccupied Space~~ Assembly without Fixed Seats	~~0 SF~~ 15 SF	81
103	MTG. ROOM	480 SF	22 SF	458 SF	Business Areas with Sprinkler Protection	150 SF	4
104	PARKS ADMIN	315 SF	45 SF	270 SF	Business Areas with Sprinkler Protection	150 SF	2
105	PARKS DIR.	161 SF	35 SF	126 SF	Business Areas with Sprinkler Protection	150 SF	1
106	PARKS BUS.	132 SF	39 SF	93 SF	Business Areas with Sprinkler Protection	150 SF	1 1
107	EAST HALL	483 SF	0 SF	483 SF	Unoccupied Space	0 SF	
108	FITNESS	745 SF	8 SF	737 SF	Exercise Rooms	50 SF	15
109	WC	58 SF	0 SF	58 SF	Unoccupied Space	0 SF	
110	FIT. STOR.	34 SF	0 SF	34 SF	Unoccupied Space	0 SF	
111	MULTI. ROOM 1	511 SF	0 SF	511 SF	Assembly without Fixed Seats - Unconcentrated (Tables and Chairs)	15 SF	35
111A	MULTI. STOR.	52 SF	0 SF	52 SF	Unoccupied Space	0 SF	
112	MULTI. ROOM 2	489 SF	0 SF	489 SF	Assembly without Fixed Seats - Unconcentrated (Tables and Chairs)	15 SF	33
113	MECH	81 SF	0 SF	81 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	1
114	AQ DIR	304 SF	0 SF	304 SF	Business Areas with Sprinkler Protection	150 SF	3 1
116	M LOCKER RM	836 SF	0 SF	836 SF	Locker Rooms	50 SF	17
117	UNIV. CHANGING	421 SF	0 SF	421 SF	~~Unoccupied Space~~ Locker Rooms	~~0 SF~~ 50 SF	9
117A	JAN	17 SF	0 SF	17 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	1
117B	MAINT.	55 SF	0 SF	55 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	1
118	W LOCKER RM	972 SF	0 SF	972 SF	Locker Rooms	50 SF	20
119	R.R. 1	69 SF	0 SF	69 SF	Unoccupied Space	0 SF	
120	R.R. 2	78 SF	0 SF	78 SF	Unoccupied Space	0 SF	
121	R.R. 3	109 SF	0 SF	109 SF	Unoccupied Space	0 SF	
122	LIFEGUARDS	344 SF	0 SF	344 SF	Business Areas with Sprinkler Protection	150 SF	3 1
123	IDF	80 SF	0 SF	80 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	1
124	NATATORIUM DECK	5202 SF	0 SF	5202 SF	Assembly without Fixed Seats - Unconcentrated (Tables and Chairs)	15 SF	347
125	SAUNA	72 SF	56 SF	16 SF	Exercise Rooms	50 SF	1
126	PUMP ROOM	1171 SF	0 SF	1171 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	4
127	AQ STORAGE	366 SF	0 SF	366 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	2
128	ELEC	232 SF	0 SF	232 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	1
129	RISER	143 SF	0 SF	143 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	1
130	CHEM 1	55 SF	0 SF	55 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	1
131	CHEM 2	63 SF	0 SF	63 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	1
132	PROGRAM STOR	126 SF	0 SF	126 SF	Accessory Storage Areas, Mechanical Equipment Room	300 SF	1
Grand total		22416 SF					~~613~~ 1 774

OCCUPANT LOAD SUMMARY

THE WAC AND IBC CALCULATE THE NUMBER OF NATATORIUM OCCUPANTS DIFFERENTLY.

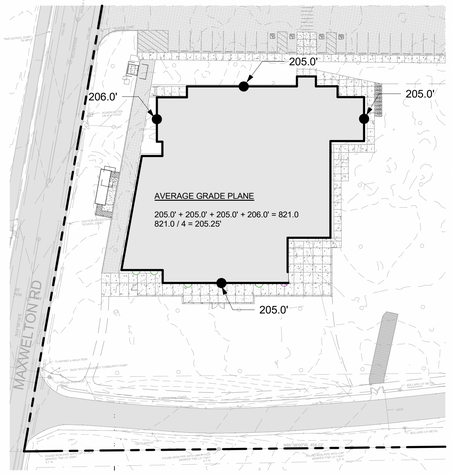
EGRESS
FOR EGRESS-RELATED CALCULATIONS, THE TOTAL NUMBER OF BUILDING OCCUPANTS WILL BE DERIVED FROM THE ABOVE TABLE TITLED, 'OCCUPANT LOAD - IBC'.

TOTAL OCCUPANTS FOR EGRESS
= 613 OCCUPANTS

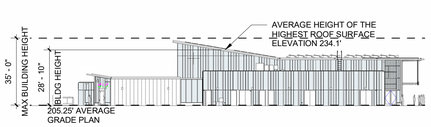
PLUMBING: NATATORIUM
FOR PLUMBING CALCULATIONS, THE NATATORIUM-RELATED PLUMBING FIXTURES ARE DETERMINED BY WAC 246-260-031 SO WE HAVE UTILIZED THE RELATED WAC OCCUPANT LOAD CALCULATION METHOD: WAC 246-260-041. THE REQUIRED NATATORIUM-RELATED PLUMBING FIXTURES ARE FOUND IN THE LOCKER ROOMS AND UNIVERSAL CHANGING HALL IMMEDIATELY ADJACENT TO THE NATATORIUM.

PLUMBING: NON-NATATORIUM
FOR PLUMBING CALCULATIONS, THE NON-NATATORIUM-RELATED PLUMBING FIXTURES ARE DETERMINED BY THE IBC, SO WE HAVE UTILIZED THE TABLE ABOVE TITLED, 'OCCUPANT LOAD - IBC' AND SUBTRACTED OUT THE NATATORIUM OCCUPANTS INCLUDING THE TEACHING POOL, LAP POOL, SPA, AND POOL DECK OCCUPANTS. THE REQUIRED NON-NATATORIUM-RELATED PLUMBING FIXTURES ARE FOUND IN OTHER AREAS OF THE CENTER.

TOTAL OCCUPANTS FOR PLUMBING CALCULATIONS
= OCCUPANTS PER IBC FOR NON-NATATORIUM SPACES + OCCUPANTS PER WAC FOR NATATORIUM SPACES
= (613 - (347 + 43 + 71 + 2)) OCCUPANTS (SEE TABLE 'OCCUPANT LOAD - IBC') + 207 OCCUPANTS (SEE 'PLUMBING CALCS FOR NATATORIUM SPACES PER WAC)
= 150 OCCUPANTS (NON-NATATORIUM) + 207 OCCUPANTS (NATATORIUM)
= 357 OCCUPANTS 1

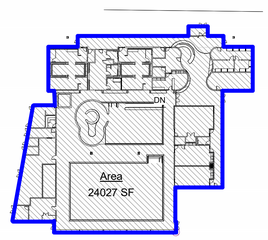


1 GRADE PLANE DIAGRAM
1" = 50'-0"



BUILDING HEIGHT PER IBC CH. 2: THE VERTICAL DISTANCE FROM GRADE PLANE TO THE AVERAGE HEIGHT OF THE HIGHEST ROOF SURFACE.

2 BLDG HEIGHT DIAGRAM
1/32" = 1'-0"



3 AREA PLAN
1" = 50'-0"

PLUMBING CALCS FOR NATATORIUM SPACES PER WAC

WAC 246-260-041

TABLE 041.2 - SWIMMING POOL MAXIMUM BATHING LOAD

TYPE OF POOL	VALUE A (** SF OF SHALLOW WATER, ≤ 5')	VALUE B (** SF OF DEEP WATER, > 5')	MAXIMUM BATHER LOAD = VALUE A + VALUE B
1. INDOOR	SF/25 PROPOSED SIZE = (3255 SF)/25 = 130 OCCS	SF/30 PROPOSED SIZE = (2302 SF)/30 = 77 OCCS	PROPOSED BATHER LOAD = 130 + 77 = **207 OCCS**
2. OUTDOOR	SF/15 PROPOSED SIZE = N/A	SF/30 PROPOSED SIZE = N/A	MAX PROPOSED BATHER LOAD = N/A

WAC 246-260-031

TABLE031.5 - AMOUNT OF FIXTURES REQUIRED FOR OCCUPANCY LOAD BY SEX

TYPE OF FIXTURE	OCCUPANCY/SEX	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	UNISEX
1. TOILETS	UP TO 120	1/60	1/40	NA	NA	N/A	N/A	N/A
	FROM 121-360	**1/80**	**1/60**	**207/2 = 104/80 = ~2**	**207/2= 104/60 = ~2**	**2**	**2**	**N/A**
	OVER 360	1/150	1/100	N/A	N/A	N/A	N/A	N/A
2. URINALS	UP TO 120	1/60	N/A	N/A	N/A	N/A	N/A	N/A
	FROM 121-360	**1/80**	**N/A**	**207/2=104/80= ~2**	**N/A**	**2**	**N/A**	**N/A**
	OVER 360	1/150	N/A	N/A	N/A	N/A	N/A	N/A
3. SHOWERS	UP TO 120	1/40	1/40	N/A	N/A	N/A	N/A	N/A
	FROM 121-360	1/60	1/60	**207/2= 104/60 = ~2**	**207/2= 104/60 = ~2**	**2**	**2**	**N/A**
	OVER 360	1/100	1/100	N/A	N/A	N/A	N/A	N/A
4. SINKS	UP TO 200	1/100	1/100	**207/2= 104/100= ~1**	**207/2=104/100= ~1**	**1**	**1**	**N/A**
	FROM 201-400	1/200	1/200	N/A	N/A	N/A	N/A	N/A
	OVER 400	1/400	1/400	N/A	N/A	N/A	N/A	N/A
5. DIAPER CHANGING STATIONS	N/A	1 REQ'D	1 REQ'D					3 PROVIDED

* SEE TABLE 041.2 ABOVE FOR MAXIMUM BATHING LOAD CALCULATIONS

PLUMBING CALCULATIONS FOR NON-NATATORIUM SPACES PER IBC

NON-NATATORIUM OCCUPANTS = **154 OCCUPANTS**, SEE OCCUPANT LOAD SUMMARY

A-3 OCCUPANTS: 155	Assembly: Auditoriums without permanent seating, art galleries, exhibition halls, museums, lecture halls, libraries, arcades and gymnasiums						
	WATER CLOSETS			URINALS	LAVATORIES		
50 % MALE	50 % FEMALE	UNISEX	MALE	FEMALE	MALE	UNISEX	MALE	FEMALE
77.5	77.5	0	1	1	0	0	1	1

SUMMARY OF PLUMBING FIXTURES CALC'ED ABOVE (REQUIRED VS PROVIDED)

SUMMARY OF REQ'D TOTAL OCCUPANTS: 362	This summary table tallies the individual fixtures as required by IBC and WAC codes into total required fixtures and compares that to the number of fixtures provided in the documents, see below									
	TOTAL WATER CLOSETS			TOTAL URINALS	TOTAL LAVATORIES			TOTAL BATHTUBS OR SHOWERS	TOTAL DRINKING FOUNTAINS	TOTAL SERVICE SINKS
50 % MALE	50 % FEMALE	UNISEX	MALE	FEMALE	MALE	UNISEX	MALE	FEMALE			
181	181	0	3	3	2	0	2	2	4	1	1
PROVIDED		4	1	4	2	4	2	2	21	2	1

1

WAC 246-260-041

(2)(d) - SWIMMING POOL MAXIMUM BATHING LOAD

FOR POOLS FIFTEEN HUNDRED SQUARE FEET OR MORE, WALKING DECK SURFACES MUST BE AT LEAST SIXTEEN SQUARE FEET PER BATHER.

PROPOSED BATHER LOAD = 130 + 77 = 207 OCC

207 OCC x 16 SF = 3,312 SF DECK SPACE REQUIRED

5,202 SF DECK PROVIDED > 3,312 SF REQUIRED

ISLAND COUNTY
Reviewed For
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Code Compliance
07/18/2025
Brian Boyle

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South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

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3		

CONTENTS:
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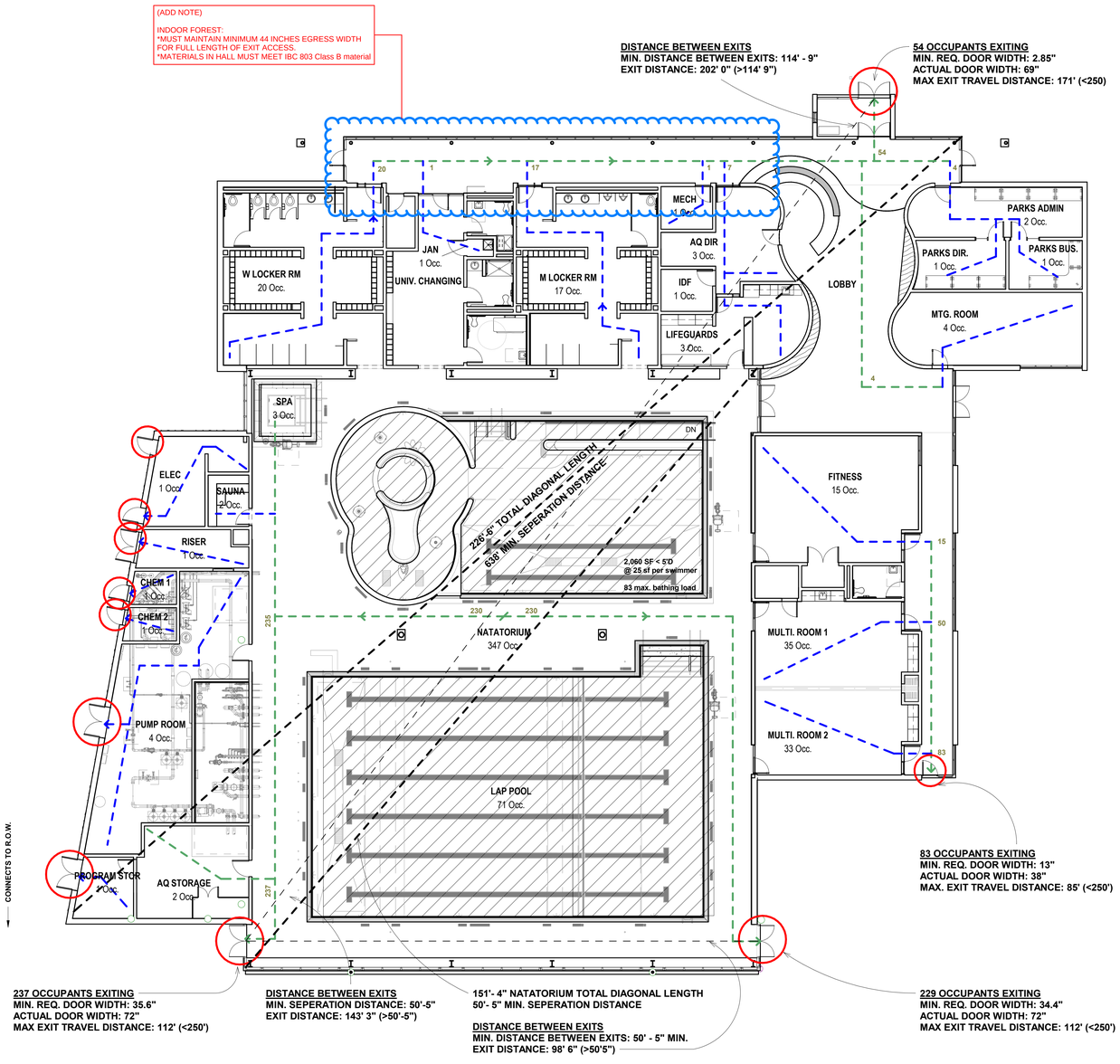
PROJECT NO: **2022021.000**

SHEET:
T1.2



1 LIFE SAFETY PLAN - MAIN FLOOR
3/32" = 1'-0"

LIFE SAFETY NOTES

MAIN FLOOR AREA = 24,027 SF
MAIN FLOOR OCCUPANCY LOAD BASED ON EGRESS = 613
MAIN FLOOR IS EQUIPPED WITH (11) EGRESS EXISTS

LIFE SAFETY GRAPHIC LEGEND

○	MEANS OF EGRESS
- - -	EXIT ACCESS TRAVEL PATH
- - -	COMMON PATH OF TRAVEL
NAME OCC. LOAD	ROOM NAME AND OCCUPANCY LOAD
DISTANCE	DISTANCE BETWEEN EXITS OR THE TWO FURTHEST CORNERS OF THE FLOOR

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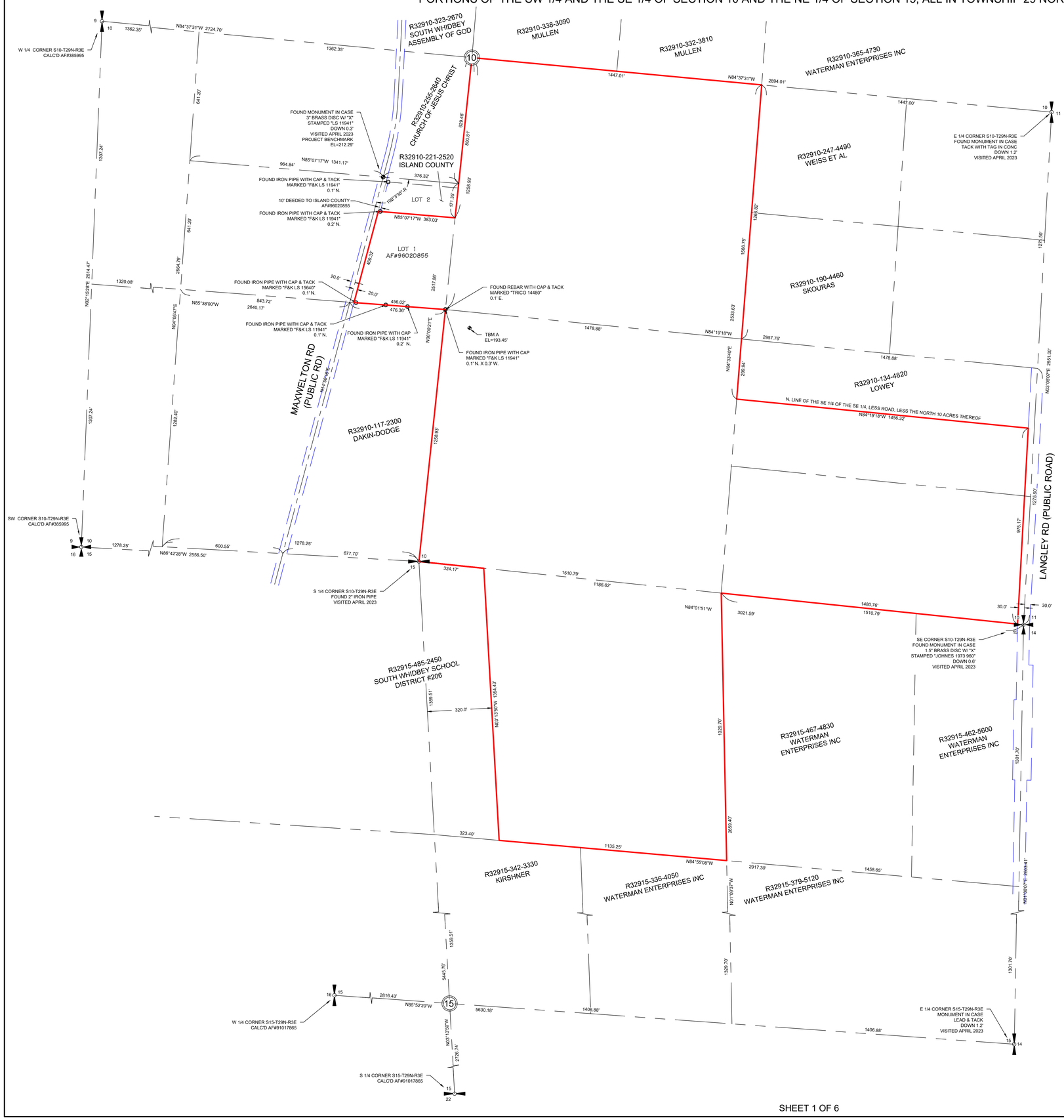
Rev #	Date	Description

CONTENTS:
LIFE SAFETY PLAN

SCALE: As indicated
DRAWN: LP / ES / AP
CHECKED: PC / EW
PROJECT NO: 2022021.000

SHEET:
T1.3

PORTIONS OF THE SW 1/4 AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.



SCALE: 1"=200'

VICINITY MAP
NOT TO SCALE

LEGAL DESCRIPTION

THE PROPERTY HEREIN DESCRIBED IS THE SAME PROPERTY DESCRIBED IN CHICAGO TITLE COMPANY OF WASHINGTON COMMITMENT FOR TITLE INSURANCE NUMBER 245456727 DATED APRIL 18, 2023.

LOT 1 OF ISLAND COUNTY SHORT PLAT NO. 247/95.R32910.2510 AS APPROVED DECEMBER 6, 1996 AND RECORDED DECEMBER 6, 1996, IN VOLUME 3 OF SHORT PLATS, PAGE 127, UNDER AUDITOR'S FILE NO. 96020855, RECORDS OF ISLAND COUNTY, WASHINGTON.

AND

THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 10, TOWNSHIP 20 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN.

AND

THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 10, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN.

EXCEPT THE EAST 30 FEET THEREOF FOR COUNTY ROAD KNOWN AS LANGLEY ROAD;

ALSO EXCEPT THE NORTH 10 ACRES THEREOF.

AND THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 10, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN.

TOGETHER WITH AN EASEMENT FOR INGRESS, EGRESS AND UTILITIES, OVER, UNDER AND ACROSS THE SOUTH 60 FEET OF THAT PORTION OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER LYING EAST OF THE COUNTY ROAD KNOWN AS MAXWELTON ROAD AND ALSO THE SOUTH 60 FEET OF THE WEST 60 FEET OF THE NORTHWEST QUARTER OF THE SOUTHEAST QUARTER ALL IN SECTION 10, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN.

AND

THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 15, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN;

EXCEPT FOR THE WEST 320 FEET AS MEASURED PERPENDICULAR TO AND PARRALLEL WITH THE WEST LINE OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 15, TOWNSHIP 29, NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN;

TOGETHER WITH A NON-EXCLUSIVE EASEMENT FOR INGRESS, EGRESS AND UTILITIES, OVER AND UNDER AND ACROSS THE NORTH 60 FEET OF THE ABOVE DESCRIBED WEST 320 FEET OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 15;

ALSO TOGETHER WITH AND EASEMENT FOR INGRESS AND EGRESS, OVER THE SOUTH 40 FEET OF THE NORTH 60 FEET OF THAT PORTION OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 15, TOWNSHIP 29 NORTH, RANGE 3 EAST OF THE WELLAMETTE MERIDIAN, LYING EASTERLY OF THE COUNTY ROAD.

ALL SITUATE IN ISLAND COUNTY, WASHINGTON.

SURVEY NOTES

EQUIPMENT: 3" OR LESS TOTAL STATION AND GNSS NETWORK ROVER

METHOD: FIELD TRAVERSE AND WASHINGTON STATE REFERENCE NETWORK GNSS

SURVEY PERFORMED IN APRIL 2023.

THE CLOSURES OF THE FIELD TRAVERSE CONDUCTED DURING THIS SURVEY MEET OR EXCEED THE MINIMUM CLOSURE STANDARDS STATED IN WAC 332-130-090. THE SET AND LOCATED BOUNDARY MONUMENT POSITIONS MEET OR EXCEED THOSE STANDARDS CONTAINED IN WAC 332-130-085.

THE TOPOGRAPHIC ELEMENTS AS SHOWN MEET OR EXCEED THOSE REQUIREMENTS STATED IN WAC 332-130-145.

TOPOGRAPHIC ELEMENTS WERE DERIVED FROM AN ACTUAL SURVEY ON THE GROUND SUPPLEMENTED WITH LOW ALTITUDE PHOTOGRAMMETRIC AND LIDAR DATA COLLECTED BY HARMSEN, LLC ON 4-14-2023.

AERIAL IMAGERY IS ORTHORECTIFIED AND WAS PRODUCED TO MEET ASPRS POSITIONAL ACCURACY STANDARDS FOR DIGITAL GEOSPATIAL DATA (2014) FOR A 1.25cm RMSE HORIZONTAL ACCURACY CLASS WHICH EQUATES TO POSITIONAL HORIZONTAL ACCURACY OF +/- 3.1cm AT A 95% CONFIDENCE LEVEL.

CONTOURS ARE SHOWN AT 1' INTERVALS.

VERTICAL ACCURACY IS PER UNITED STATES NATIONAL MAP ACCURACY STANDARDS

MAXWELTON ROAD RIGHT OF WAY WAS CALCULATED PER THE SHORT PLAT BY FAKKEMA & KINGMA AF#96020855

THE INFORMATION SHOWN ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE ON THE INDICATED DATE AND CAN ONLY BE CONSIDERED AS THE GENERAL EXISTING CONDITION AT THAT TIME.

BASIS OF BEARING

N02°15'29"E BETWEEN FOUND MONUMENTS AT THE EAST QUARTER CORNER OF SECTION 10, TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M. AND THE EAST QUARTER CORNER OF SECTION 15, TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.

ALL DISTANCES SHOWN ARE GROUND DISTANCES. BEARINGS ARE WASHINGTON STATE PLANE NORTH ZONE (NAD83/2011) AND ARE BASED ON GPS OCCUPATIONS UTILIZING THE WASHINGTON STATE REFERENCE NETWORK.

DATUM NAVD 88
BENCHMARK

PROJECT BENCHMARK: FOUND MONUMENT IN CASE LOCATED ALONG THE CENTERLINE OF MAXWELTON ROAD APPROXIMATELY 600 FEET NORTH OF THE NORTHERLY PARK ENTRANCE. EL=212.29'

TBM A: SET MAG NAIL +/- 21 FEET SOUTH OF THE CENTERLINE OF THE ASPHALT ACCESS ROAD AND 2.4 FEET WEST OF THE EAST EDGE OF ASPHALT FOR THE WESTERLY BASKETBALL ACCESS AND +/- 30' NORTH OF THE CHAINLINK FENCE AT THE NORTHERLY END OF THE BASKETBALL COURTS. EL=193.45'

SITE DATA

SITE ADDRESS: LANGLEY, WA 98260
TAX PARCEL NUMBER: R32910-091-3750
GROSS SITE AREA: 6,896,384 SF (158.319 ACRES)

SURVEY REFERENCES

R SHORT PLAT BY FAKKEMA & KINGMA AF#96020855
RECORD OF SURVEY BY MEAD & SONS AF#385995
RECORD OF SURVEY BY DATUM PACIFIC AF#91017865

CERTIFICATION

TO SOUTH WHIDBEY PARK AND RECREATION DISTRICT AND CHICAGO TITLE COMPANY OF WASHINGTON. THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS AND INCLUDE ITEMS 1, 2, 3, 4, 5, 8, 11(b), 13, 14, 15, AND 16 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON APRIL 17, 2023.

AARONE ELI TYSON REGISTRATION NO. 53114 — 8-12-23 DATE

WEBSITE: www.harmsenllc.com
EMAIL: aaront@harmsenllc.com

REVISIONS: 8-12-23, DIMENSION EDITS

8-12-23

AARONE ELI TYSON — 53114 — REGISTERED PROFESSIONAL LAND SURVEYOR — STATE OF WASHINGTON

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2622 COLBY AVE.
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(206) 343-5903
FAX: (360) 805-9732

ALTA/NSPS LAND TITLE SURVEY
FOR
SOUTH WHIDBEY PARK AND RECREATION DISTRICT

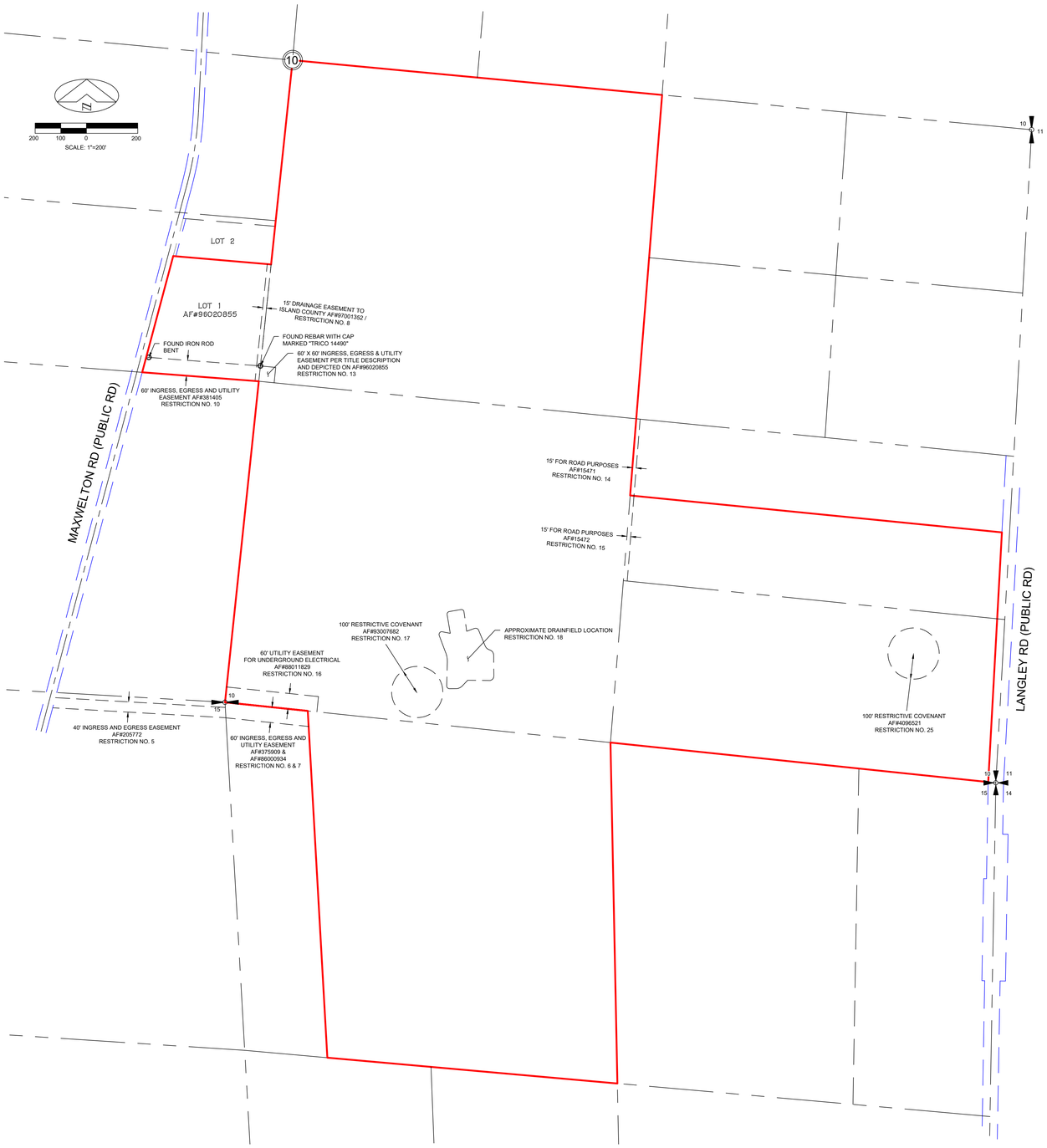
PORTIONS OF THE SW 1/4 AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.

ISLAND COUNTY, WASHINGTON

DRAWN BY: AET
DATE: 05/16/2023
PROJECT NO.: 23-093
SHEET NO.: 1 OF 6

S1

PORTIONS OF THE SW 1/4 AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.



TITLE REPORT SPECIAL EXCEPTIONS

PER CHICAGO TITLE COMPANY OF WASHINGTON COMMITMENT FOR TITLE INSURANCET NUMBER 245456727, DATED APRIL 18, 2023:

1. REFERS TO TAXES AND IS NOT A SURVEY MATTER.

2. UNPATENTED MINING CLAIMS; RESERVATIONS OR EXCEPTIONS IN THE UNITED STATES PATENTS OR IN ACTS AUTHORIZING THE ISSUANCE THEREOF; WATER RIGHTS, CLAIMS OR TITLE TO WATER.

3. TITLE TO ANY PROPERTY BEYOND THE LINES OF THE REAL PROPERTY EXPRESSLY DESCRIBED HEREIN, OR TITLE TO STREETS, ROADS, AVENUES, LANES, WAYS OR WATERWAYS ON WHICH SUCH REAL PROPERTY ABUTS, OR THE RIGHT TO MAINTAIN THEREIN VAULTS, TUNNELS, RAMPS, OR ANY OTHER STRUCTURE OR IMPROVEMENT; OR ANY RIGHTS OR EASEMENTS THEREIN UNLESS SUCH PROPERTY, RIGHTS OR EASEMENTS ARE EXPRESSLY AND SPECIFICALLY SET FORTH IN SAID DESCRIPTION.

4. AFFECT, IF ANY, OF AFFIDAVIT OF IDENTITY WHICH DISCLOSED AN UNRECORDED OIL AND GAS LEASE DATED FEBRUARY 11, 1960 IN FAVOR OF STANDARD OIL COMPANY OF CALIFORNIA;

   RECORDING DATE: DECEMBER 1, 1961
   RECORDING NO.: 140945
   (AFFECTS THE NW 1/4 OF THE NE 1/4 OF SECTION 15 - NOTHING TO DEPICT GRAPHICALLY)

   NOTE: A SUBSEQUEST OIL AND GAS LEASE WAS RECORDED ON NOVEMBER 6, 1970 UNDER AUDITOR'S FILE NO. 230447 AND WAS RELEASED BY AUDITOR'S FILE NO. 281098.

5. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT;

   GRANTED TO: ARTHUR P. & DORA M. GABELEIN
   PURPOSE: INGRESS AND EGRESS
   RECORDING DATE: FEBRUARY 5, 1969
   RECORDING NO.: 205772
   AFFECTS PROPERTY AND LOCATION IS SHOWN)

6. TERMS AND CONDITIONS OF EASEMENT FOR INGRESS, EGRESS AND UTILITIES AS DISCLOSED BY INSTRUMENT;

   RECORDING DATE: NOVEMBER 7, 1980
   RECORDING NO.: 375909
   (AFFECTS PROPERTY AND LOCATION IS SHOWN)

7. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS DISCLOSED IN A DOCUMENT:

   PURPOSE: INGRESS, EGRESS AND UTILITIES
   RECORDING DATE: JANUARY 24, 1986
   RECORDING NO.: 86000934
   (THIS COVERS THE SAME AREA AS RESTRICTION NO. 6 AND THE LOCATION IS SHOWN)

8. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT:

   GRANTED TO: ISLAND COUNTY
   PURPOSE: DRAINAGE
   RECORDING DATE: JANUARY 31, 1997
   RECORDING NO.: 97001352
   AFFECTS: THE EAST 15 FEET OF LOT 1 SHORT PLAT NO. 247/95
   (AFFECTS PROPERTY AND LOCATION IS SHOWN)

9. DEED OF RIGHT TO USE LAND FOR PUBLIC OUTDOOR RECREATION PURPOSES INCLUDING THE TERMS, COVENANTS AND PROVISIONS THEREOF

   RECORDING DATE: OCTOBER 18, 2018
   RECORDING NO.: 4453677
   (NOT A SURVEY MATTER / NOTHING TO SHOW)

10. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS RESERVED IN A DOCUMENT:

    PURPOSE: INGRESS, EGRESS AND UTILITIES
    RECORDING DATE: APRIL 7, 1981
    RECORDING NO.: 381405
    (AFFECTS PROPERTY AND LOCATION IS SHOWN)

11. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT:

    GRANTED TO: WHIDBEY TELEPHONE COMPANY
    PURPOSE: UNDERGROUND COMMUNICATION CABLES AND ASSOCIATED COMMUNICATIONS FACILITIES AND EQUIPMENT.
    RECORDING DATE: JULY 23, 1984
    RECORDING NO.: 84009560
    (BLANKET EASEMENT OVER THAT PORTION WITHIN THE SW 1/4 OF S10-T29N-R3E)

12. AFFIDAVIT INCLUDING THE TERMS, COVENANTS AND PROVISIONS THEREOF

    RECORDING DATE: OCTOBER 10, 1988
    RECORDING NO.: 88012682
    REGARDING: BUILDING PERMIT AND CONSTRUCTION
    (NOT A SURVEY MATTER / NOTHING TO SHOW)

13. COVENANTS, CONDITIONS, RESTRICTIONS, RECITALS, RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, ENCROACHMENTS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON SHORT PLAT NO. 247/95:

    RECORDING NO: 96020855
    (ITEMS THAT CAN BE DEPICTED ARE SHOWN)

14. EASEMENT, INCLUDING THE TERMS AND CONDITIONS THEREOF, RESERVED BY INSTRUMENT(S);
    RECORDED: JANUARY 5, 1916
    RECORDING NO.: 15471
    FOR: ROAD PURPOSES
    (AFFECTS PROPERTY AND LOCATION IS SHOWN)

15. EASEMENT, INCLUDING THE TERMS AND CONDITIONS THEREOF, RESERVED BY INSTRUMENT(S);

    RECORDED: JANUARY 5, 1916
    RECORDING NO.: 15472
    FOR: ROAD PURPOSES
    (AFFECTS PROPERTY AND LOCATION IS SHOWN)

16. EASEMENT, INCLUDING THE TERMS AND CONDITIONS THEREOF, GRANTED BY INSTRUMENT;

    RECORDED: SEPTEMBER 21, 1988
    AUDITOR'S NO.: 88011829, RECORDS OF ISLAND COUNTY, WASHINGTON
    IN FAVOR OF: PUGET SOUND POWER & LIGHT COMPANY
    FOR: UNDERGROUND ELECTRIC SYSTEM, TOGETHER WITH NECESSARY APPURTENANCES
    (AFFECTS PROPERTY AND LOCATION IS SHOWN)

17. TERMS AND CONDITIONS CONTAINED IN INSTRUMENT;

    RECORDED: APRIL 28, 1993
    AUDITOR'S NO.: 93007682, RECORDS OF ISLAND COUNTY, WASHINGTON
    FOR: PREVENTING CONTAMINATION OF WATER SUPPLY
    AFFECTS: ANY PORTION OF SAID PREMISES LYING WITHIN 100 FEET OF WELL
    (AFFECTS PROPERTY AND LOCATION SHOWN IS APPROXIMATE, THE WELL WAS NOT LOCATED AS PART OF THE SURVEY)

18. AGREEMENT, INCLUDING THE TERMS AND CONDITIONS THEREOF; ENTERED INTO;

    FOR: ISLAND COUNTY HEALTH DEPARTMENT
    AND BETWEEN: SOUTH WHIDBEY PARKS & RECREATION DISTRICT
    RECORDED: FEBRUARY 18, 1998
    AUDITOR'S NO.: 98002964, RECORDS OF ISLAND COUNTY, WASHINGTON
    PROVIDING: OPERATION AND MAINTENANCE OF ON-SITE SEWAGE SYSTEM
    (AFFECTS PROPERTY AND APPROXIMATE LOCATION OF DRAINFIELD IS SHOWN BASED ON THE AS-BUILT MAP PROVIDED)

19. COVENANTS, CONDITIONS, RESTRICTIONS, RECITALS, RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, ENCROACHMENTS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON SURVEY:

    RECORDING NO: 385995
    (THIS IS A RECORD OF SURVEY OF THE SW 1/4 OF THE SE 1/4 OF SECTION 10. THE EASEMENT SHOWN IS ALREADY COVERED UNDER RESTRICTIONS 16.)

20. COVENANTS, CONDITIONS, RESTRICTIONS, RECITALS, RESERVATIONS, EASEMENTS, EASEMENT PROVISIONS, ENCROACHMENTS, DEDICATIONS, BUILDING SETBACK LINES, NOTES, STATEMENTS, AND OTHER MATTERS, IF ANY, BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH ON SURVEY:

    RECORDING NO: 90001431
    (THIS IS A RECORD OF SURVEY OF THE EASEMENT COVERED BY RESTRICTION 16 AND THE LOCATION IS SHOWN.)

TITLE REPORT SPECIAL EXCEPTIONS CONTINUED

21. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT;

    GRANTED TO: PUGET SOUND ENERGY, INC.
    PURPOSE: ELECTRIC TRANSMISSION AND/OR DISTRIBUTION LINE, TOGETHER WITH NECESSARY APPURTENANCES
    RECORDING DATE: MARCH 20, 2012
    RECORDING NO.: 4311941
    (THIS EASEMENT COVERS AS CONSTRUCTED LINES WITHIN THE SW 1/4 OF THE SE 1/4 AND THE NW 1/4 OF THE SE 1/4 OF SECTION 10 AND DOES NOT GIVE ENOUGH INFORMATION TO DEPICT GRAPHICALLY)

22. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT;

    GRANTED TO: WHIDBEY TELEPHONE COMPANY
    PURPOSE: COMMUNICATION CABLES, CONDUITS AND ASSOCIATED COMMUNICATIONS FACILITIES AND EQUIPMENT
    RECORDING DATE: OCTOBER 16, 2012
    RECORDING NO.: 4325249
    (THIS IS A BLANKET EASEMENT WITHIN THE SW 1/4 OF THE SE 1/4 AND THE NW 1/4 OF THE SE 1/4 OF SECTION 10 AND DOES NOT GIVE ENOUGH INFORMATION TO DEPICT GRAPHICALLY)

23. EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT;

    GRANTED TO: WHIDBEY TELEPHONE COMPANY
    PURPOSE: UNDERGROUND COMMUNICATION CABLES AND ASSOCIATED COMMUNICATIONS FACILITIES AND EQUIPMENT
    RECORDING DATE: FEBRUARY 23, 1978
    RECORDING NO.: 327915
    (THIS IS A BLANKET EASEMENT WITHIN THE SE 1/4 OF THE SE 1/4 OF SECTION 10 AND DOES NOT GIVE ENOUGH INFORMATION TO DEPICT GRAPHICALLY)

24. AGREEMENT INCLUDING THE TERMS, COVENANTS AND PROVISIONS THEREOF

    RECORDING DATE: FEBRUARY 2, 1997
    RECORDING NO.: 97002905
    (NOT A SURVEY MATTER / NOTHING TO SHOW)

25. DECLARATION OF COVENANT INCLUDING THE TERMS, COVENANTS AND PROVISIONS THEREOF

    RECORDING DATE: APRIL 8, 2004
    RECORDING NO.: 4096521
    REGARDING: WELL AND WATERWORKS
    (AFFECTS PROPERTY AND LOCATION SHOWN IS APPROXIMATE, THE WELL WAS NOT LOCATED AS PART OF THE SURVEY)

26. LOT COMBO INCLUDING THE TERMS, COVENANTS AND PROVISIONS THEREOF RECORDING DATE: APRIL 6, 2017

    RECORDING NO.: 4420183

    NOTE: THE LEGAL DESCRIPTION SUPPLIED FOR TAX PARCEL R32910-191-2470 WAS FOR THE ENTIRE SHORT PLAT 247/95 RECORDED UNDER AUDITOR'S FILE NO. 96020855. THIS TAX PARCEL IS ONLY FOR LOT ONE OF SAID SHORT PLAT. LOT 2 IS NOT OWNED BY SOUTH WHIDBEY PARK AND RECREATION DISTRICT. THEREFORE THE LEGAL DESCRIPTION THEY USED TO ESTABLISH THIS LOT COMBINATION IS ERRONEOUS. (THIS IS A LOT CONSOLIDATION AND AFFECTS THE PROPERTY HOWEVER THERE IS NO INFORMATION TO SHOW)

TABLE A NOTES

1. THE FULL PROPERTY WAS NOT SURVEYED ON THE GROUND. PROPERTY CORNERS WERE FOUND OR SET IN THE AREA REQUESTED BY THE CLIENT AND ARE SHOWN HEREIN.
2. NO SITE SPECIFIC ADDRESS IS LISTED ON THE COUNTY SITE.
3. PROPERTY IS LOCATED WITHIN ZONE X ACCORDING TO FIRM 53029C0345F - EFFECTIVE DATE 3-07-2017.
4. GROSS LAND AREA IS SHOWN UNDER SITE DATA ON SHEET 1.
5. VERTICAL RELIEF IS SHOWN ON SHEET 4-6, SOURCE AND CONTOUR INTERVALS ARE STATED WITHIN THE SURVEY NOTES ON SHEET 1, BENCHMARK AND DATUM INFORMATION IS SHOWN ON SHEET 1.
8. ALL SUBSTANTIAL FEATURES OBSERVED WITHIN THE REQUESTED AREA ARE SHOWN.

11(b). UTILITY LOCATES WITHIN THE REQUESTED AREA WERE PROVIDED BY APPLIED PROFESSIONAL SERVICES IN APRIL OF 2023.

13. NAMES OF ADJOINING OWNERS ARE SHOWN ON SHEET 1.
14. THE NEAREST INTERSECTION FROM THE PARK ENTRANCE OFF OF MAXWELTON ROAD IS THE INTERSECTION OF MAXWELTON RD AND RIVENDELL RD. AND IS APPROXIMATELY 3,300 FEET NORTH OF THE PARK ENTRANCE.
15. AERIAL IMAGERY AND LOW ALTITUDE LIDAR WERE USED IN THE FORESTED AREAS SHOWN HEREIN WITH RANDOM SPOT CHECKS TO VERIFY ACCURACY. THE INTENDED PROCESS WAS DISCUSSED WITH THE CLIENT DURING CONTRACT NEGOTIATIONS. INFORMATION SPECIFIC TO THE SOURCE, PRECISION AND DATES ARE STATED IN THE SURVEY NOTES ON SHEET 1.
16. NO EVIDENCE OF RECENT EARTH WORK OR BUILDING CONSTRUCTION WAS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.

REVISIONS: 6-21-2023 ,ADDED WELL AND DRAINFIELD INFORMATION NEAR SECTION CORNER OF PROPERTY

6-21-2023

P.J. TYSON — STATE OF WASHINGTON — 54748 — REGISTERED PROFESSIONAL LAND SURVEYOR

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(206) 343-5903
FAX: (360) 805-9732

ALTA/NSPS LAND TITLE SURVEY
FOR
SOUTH WHIDBEY PARK AND RECREATION DISTRICT

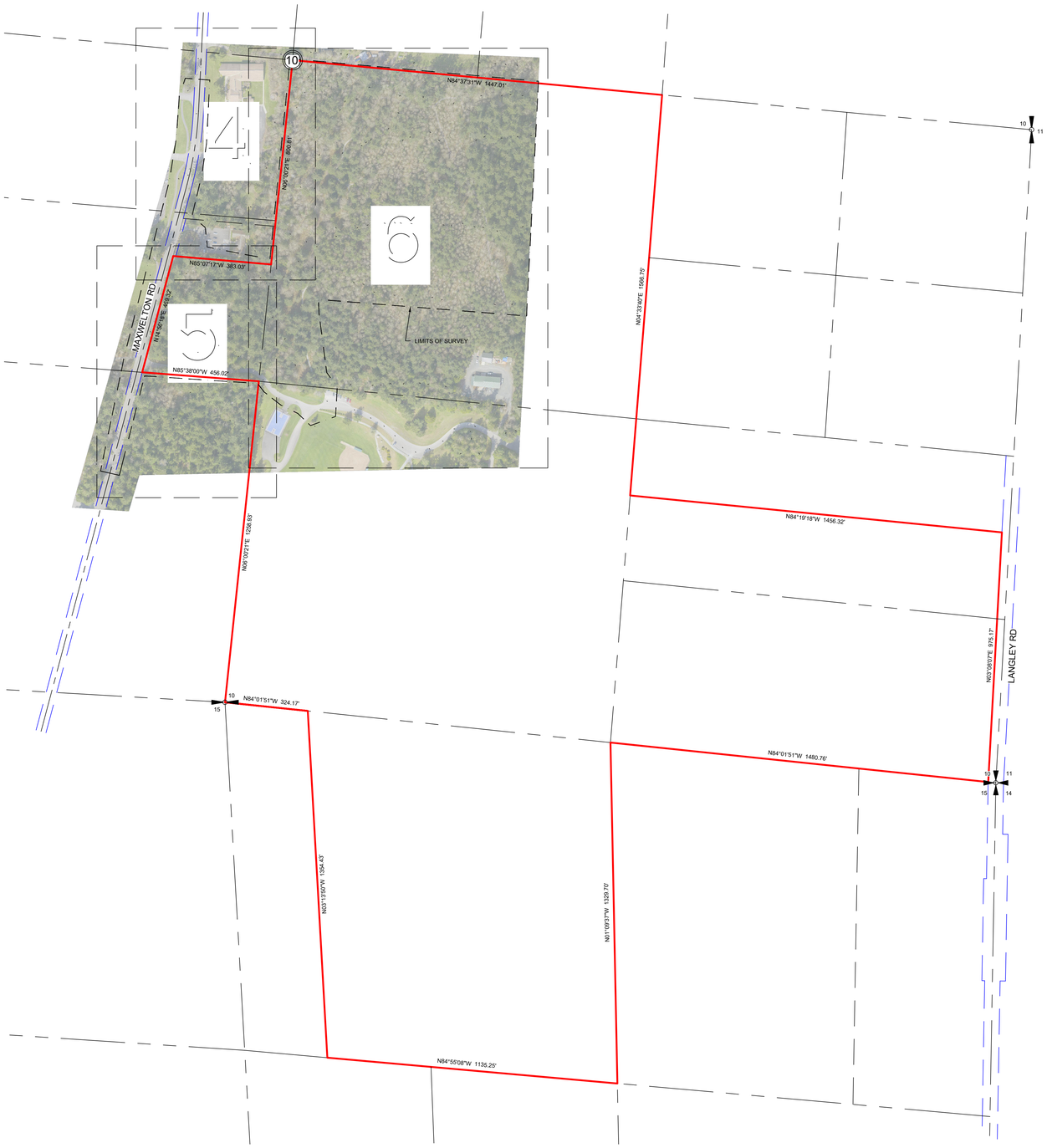
PORTIONS OF THE SW 1/4 AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.

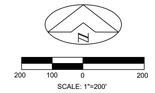
ISLAND COUNTY, WASHINGTON

DRAWN BY: AET
DATE: 05/16/2023
PROJECT NO. 23-093
SHEET NO. 2 OF 6

S2

PORTIONS OF THE SW 1/4 AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.





LEGEND

- FOUND MONUMENT IN CASE AS NOTED
- FOUND SURVEY MARKER AS NOTED
- FIRE HYDRANT
- WATER VALVE
- STORMDRAIN MANHOLE
- CATCH BASIN
- WELL
- UTILITY POLE
- PUSH BUTTON CROSSWALK SIGNAL
- POWER METER
- LIGHT POLE
- GUY POLE
- GUY ANCHOR
- COMMUNICATIONS JUNCTION BOX / RISER
- BOLLARD
- SIGN
- WETLAND FLAG
- SOIL TEST PIT
- FIR TREE
- PINE TREE
- x — FENCE (TYPE NOTED)
- SD — STORMDRAIN
- W — WATER
- OHP — OVERHEAD POWER
- P — UNDERGROUND POWER
- T — UNDERGROUND COMMUNICATIONS
- PROPERTY LINE
- RIGHT OF WAY
- ASPHALT
- CONCRETE
- GRAVEL
- WETLANDS

UTILITY NOTES

BASIS FOR UTILITY LINES SHOWN: FIELD OBSERVATIONS & AS-BUILT MAPS AND UTILITY LOCATES BY APPLIED PROFESSIONAL SERVICES IN APRIL OF 2023.

IN PROVIDING THIS SURVEY, NO ATTEMPT HAS BEEN MADE TO OBTAIN OR SHOW DATA CONCERNING CONDITION OR CAPACITY OF ANY UTILITY EXISTING ON THIS SITE, WHETHER PRIVATE, MUNICIPAL OR PUBLIC OWNED.

UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THE SITE, UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE TAKEN FROM A COMPILATION OF PUBLIC RECORDS AND VISIBLE FIELD EVIDENCE. WE ASSUME NO LIABILITY FOR THE ACCURACY OF THE PUBLIC RECORDS. UNDERGROUND UTILITY LOCATIONS ARE ONLY APPROXIMATE. UNDERGROUND CONNECTIONS ARE SHOWN AS STRAIGHT LINES BETWEEN VISIBLE SURFACE LOCATIONS BUT MAY CONTAIN BENDS OR CURVES NOT SHOWN. FIELD VERIFICATION IS NECESSARY PRIOR TO OR DURING ANY CONSTRUCTION.

SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT SURVEYED OR EXAMINED OR CONSIDERED AS PART OF THIS SURVEY. NO EVIDENCE OR STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONDITIONS, CONTAINERS OR FACILITIES THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS PROPERTY.

UTILITY PROVIDERS

UTILITY SERVICE PROVIDERS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

POWER
PUGET SOUND ENERGY
360 N OAK HARBOR ST
OAK HARBOR, WA 98277
888-225-5773

COMMUNICATIONS
WHIDBEY TELECOM
1651 MAIN ST #2
FREELAND, WA 98249
360-331-1676

COMCAST
360-824-3501
WHIDBEYLOCAL.COM

WAVE BROADBAND
866-928-3123

REVISIONS: 6-21-2023 - ADDED WELL AND DRAINFIELD INFORMATION NEAR NEUTRAL VORTON AT PROPERTY.

6-21-2023

ELI TYSON — WASHINGTON — 19748 — REGISTERED PROFESSIONAL LAND SURVEYOR

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ALTA/NSPS LAND TITLE SURVEY
FOR
SOUTH WHIDBEY PARK AND RECREATION DISTRICT

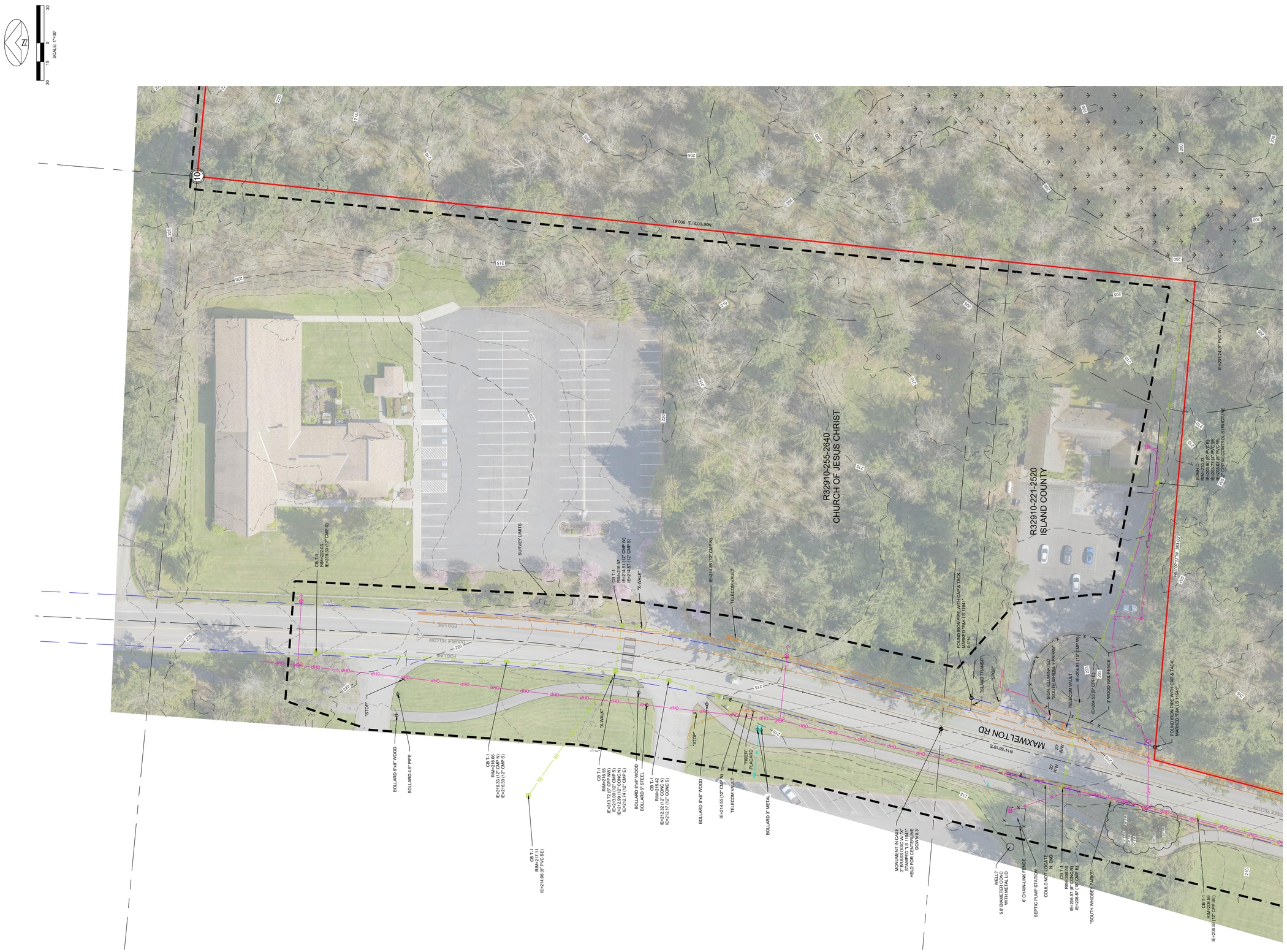
PORTIONS OF THE SW 1/4, AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.

ISLAND COUNTY, WASHINGTON

DRAWN BY: AET
DATE: 05/16/2023
PROJECT NO. 23-093
SHEET NO. 3 OF 6

S3

PORTIONS OF THE SW 1/4 AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.



REVISIONS: 6-21-203 - ADDED WELL AND DRAINFIELD INFORMATION NEAR WESTERLY PORTION OF PROPERTY.

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FAX: (360) 805-9732

ELI TYSON
NUMBER
STATE OF WASHINGTON
LAND SURVEYOR
PROFESSIONAL

6-21-2023

ALTA/NSPS LAND TITLE SURVEY
FOR
SOUTH WHIDBEY PARK AND RECREATION DISTRICT

PORTIONS OF THE SW 1/4 AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.

ISLAND COUNTY, WASHINGTON

DRAWN BY:	AET
DATE:	05/16/2023
PROJECT NO.	23-093
SHEET NO.	4 OF 6

S4

PORTIONS OF THE SW 1/4 AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.

REVISIONS: 6-21-2023 - ADDED WELL AND DRAINFIELD INFORMATION NEAR WESTERLY PORTION OF PROPERTY

HARMSEN
2822 COLBY AVE. SUITE 300 EVERETT, WA 98201
(360) 794-7811
(206) 343-5903
FAX: (360) 805-9732

ALTA/NSPS LAND TITLE SURVEY
FOR
SOUTH WHIDBEY PARK AND RECREATION DISTRICT

PORTIONS OF THE SW 1/4 AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.

ISLAND COUNTY, WASHINGTON

DRAWN BY:	AET
DATE:	05/16/2023
PROJECT NO.	23-093
SHEET NO.	5 OF 6

S5

PORTIONS OF THE SW 1/4 AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.

SCALE: 1"=50'

50 0 25 50

REVISIONS: 6-21-2023 - ADDED WELL AND DRAINFIELD INFORMATION NEAR WESTERLY PORTION OF PROPERTY

6-21-2023

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ALTA/NSPS LAND TITLE SURVEY
FOR
SOUTH WHIDBEY PARK AND RECREATION DISTRICT

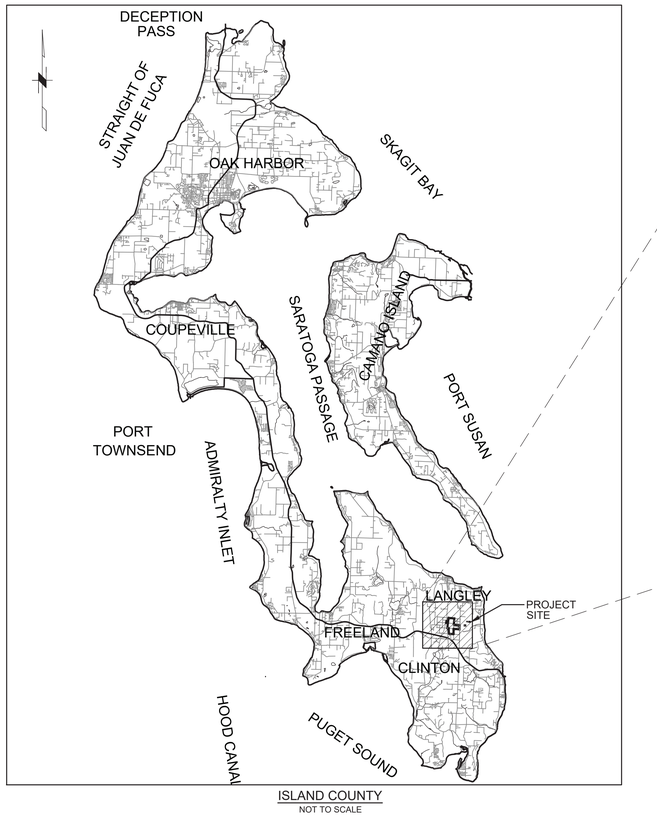
PORTIONS OF THE SW 1/4 AND THE SE 1/4 OF SECTION 10 AND THE NE 1/4 OF SECTION 15, ALL IN TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.

ISLAND COUNTY, WASHINGTON

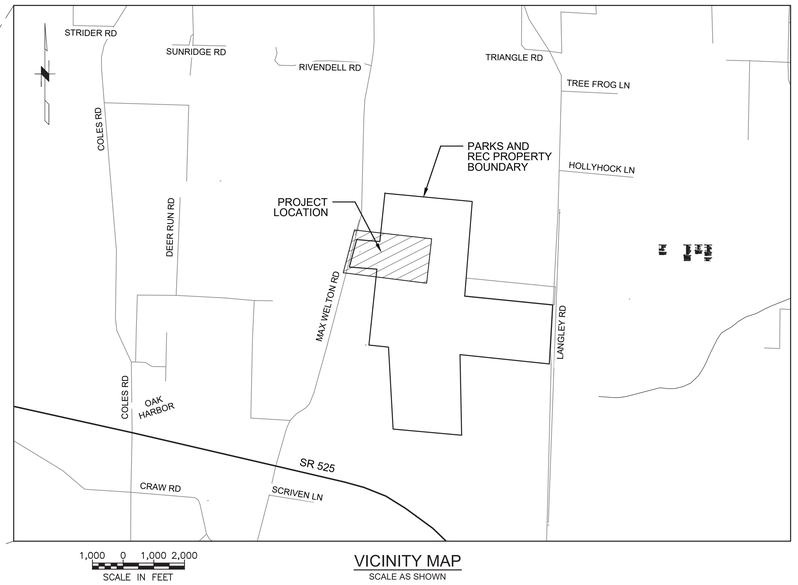
DRAWN BY:	AET
DATE:	05/16/2023
PROJECT NO.	23-093
SHEET NO.	6 OF 6

S6

SOUTH WHIDBEY PARKS AQUATIC CENTER
LARGE ON-SITE SEWAGE SYSTEM (LOSS)
LANGLEY, WASHINGTON



ISLAND COUNTY
NOT TO SCALE



VICINITY MAP
SCALE AS SHOWN

PROJECT INFORMATION:

OWNER:
SOUTH WHIDBEY PARKS AND RECREATION DISTRICT
5475 MAXWELTON RD
LANGLEY, WA 98260
PH: 360.221.5484

PROJECT ADDRESS:
5495 MAXWELTON RD
LANGLEY, WA 98260

SURVEYOR:
AARON E. TYSON, P.L.S.
HARMSEN & ASSOCIATES, INC.
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R32910-091-3750

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South Whidbey PARKS & RECREATION DISTRICT

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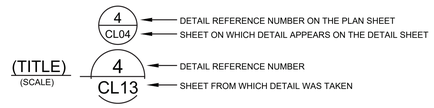
GENERAL NOTES

1. ALL ELEVATIONS BASED ON NAVD 88 VERTICAL DATUM.
2. ALL CONSTRUCTION MATERIAL SHALL BE IN ACCORDANCE WITH WASHINGTON STATE DEPARTMENT OF HEALTH STANDARDS AS OUTLINED IN SECTION 246-272B OF THE WASHINGTON ADMINISTRATIVE CODE (WAC).
3. WASHINGTON LAW REQUIRES THAT CONTRACTORS NOTIFY "ONE CALL" UTILITY LOCATION CENTER PRIOR TO COMMENCING EXCAVATIONS. YOU MUST NOTIFY THE CENTER AT LEAST 2 BUSINESS DAYS BEFORE COMMENCING AN EXCAVATION. CALL 1-800-424-5555.
4. COLLECTION LINES/SEWERS, LIFT STATIONS, AND MANHOLES MUST MEET WASHINGTON'S DEPARTMENT OF ECOLOGY'S PUBLICATION "CRITERIA FOR SEWAGE WORKS DESIGN."
5. THE DESIGN ENGINEER MUST CONDUCT OR WITNESS WATERTIGHTNESS TESTING OF ALL TANKS, PRESSURE TESTING OF ALL CONVEYANCE PIPING, AND PRESSURE TESTING OF THE DRAINFIELDS.

CONSTRUCTION NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH WASHINGTON STATE DEPARTMENT OF HEALTH STANDARDS AS OUTLINED IN SECTION 246-272B OF THE WASHINGTON ADMINISTRATIVE CODE (WAC).
2. ANY VARIANCE FROM ADOPTED STATE STANDARDS IS NOT ALLOWED UNLESS SPECIFICALLY APPROVED BY THE STATE STAFF PRIOR TO CONSTRUCTION.
3. IT SHALL BE THE APPLICANT'S/CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION EASEMENTS AND PERMITS NECESSARY BEFORE STARTING OFF-SITE WORK.
4. INTERRUPTION OF NORMAL TRAFFIC FLOW SHALL REQUIRE TRAFFIC CONTROL. REFER TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE WASHINGTON DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY REQUIRES A RIGHT-OF-USE PERMIT TO BE REVIEWED PRIOR AND INSPECTED DURING CONSTRUCTION.

DETAIL REFERENCING:



MATERIAL SPECIFICATIONS:

A. ALL PIPE USE IN THE GRAVITY COLLECTION SYSTEM SHALL BE PVC CONFORMING TO ASTM D 3034, SDR-35

B. DRAINFIELD PIPE MATERIALS SHALL MEET ASTM D2241-05 (CLASS 200) OR ASTM D1785-06 (SCHEDULE 40 OR 80 PVC).

C. ALL PRESSURIZED PIPING USED IN THE PROPOSED OFF-SITE TRANSPORT SYSTEM SHALL BE PRESSURE TESTED AT 1.5 TIMES THE PROPOSED MAXIMUM OPERATING PRESSURE, OR 200 PSI, (WHICHEVER IS GREATER) TO ENSURE THAT THE PIPING DOES NOT LEAK AND TO CERTIFY THE INTEGRITY OF THE PIPE MATERIAL

D. SEPTIC TANKS AND PUMP CHAMBERS
1. TANK DESIGN SHALL BE IN ACCORDANCE WITH WAC 246-272B-06450.

E. RISERS AND LIDS
1. OUTLET RISERS SHALL BE RIBBED PVC AS MANUFACTURED BY ORENCO SYSTEMS, INC. OR ENGINEER-APPROVED EQUAL. THE MATERIAL SHALL BE PVC AS PER ASTM D-1784 AND TESTED IN ACCORDANCE WITH AASHTO M304M-89. RISERS SHALL BE AT LEAST 49 INCHES HIGH FOR THE SEPTIC TANK AND SHALL BE AT LEAST 56 INCHES HIGH FOR THE DOSING TANK AND SHALL HAVE A MINIMUM NOMINAL DIAMETER OF 30 INCHES AND SHALL BE EQUIPPED WITH THE FOLLOWING:
   a. ELECTRICAL AND DISCHARGE GROMMETS: WHEN APPLICABLE, ORENCO SYSTEMS' EPDM GROMMETS SHALL BE INSTALLED BY THE MANUFACTURER FOR DISCHARGE PIPING, VENT PIPING, AND/OR THE ELECTICAL CONDUIT TO ASSURE A WATER TIGHT SEAL. THE GROMMETS SHALL BE INSTALLED AT THE FACTORY BY THE MANUFACTURER OF THE ACCESS RISERS.
   b. ADHESIVE: WHEN BONDING TO CONCRETE OR FIBERGLASS GROOVES, A TWO-PART EPOXY, ONE PINT REQUIRED PER 18-INCH OR 24-INCH DIAMETER RISER AND ONE ONE QUART REQUIRED PER 30-INCH DIAMETER RISER, MODEL ADHP10 OR ADHQ10 OR EQUAL SHALL BE USED. WHEN BONDING TO A FLANGED RISER TANK ADAPTER, EITHER A TWO-PART EPOXY, MODEL MA320 OR EQUAL, OR A SINGLE COMPONENT ADHESIVE MODEL ADH100 OR EQUAL SHALL BE USED.
2. ONE LID SHALL BE FURNISHED WITH EACH ACCESS RISER. LIDS SHALL BE ORENCO SYTEMS, INC. MODEL FLD30G, EXCEPT FOR RISERS ABOVE BAFFLE WALLS OR PUMP WHICH REQUIRE FLD30GVCF OR ENGINEER-APPROVED EQUAL, AS APPROPRIATE, FIBERGLASS WITH GREEN NON-SKID FINISH, AND PROVIDED WITH STAIN-LESS STEEL BOLTS AND WRENCH. THE RISER AND LID COMBINATION SHALL BE GASKETTED AND ABLE TO SUPPORT A 2500-LB. WHEEL LOAD. RIGID CLOSED CELL FOAM INSULATION OF 2" OR 4" THICKNESS SHALL BE MECHANICALLY ATTACHED TO THE UNDERSIDE OF THE LID. ALL FASTENERS SHALL BE MADE OF CORROSION RESISTANT STAINLESS STEEL. THE INSULATION SHALL HAVE AN R-VALUE OF NO LESS THAN 10 PER 2" INCREMENT. ALL INSTALLATION PRACTICES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

F. DISTRIBUTION VALVE
1. ORENCO SYSTEMS, INC. (OR APPROVED EQUAL) MODEL V6606A DISTRIBUTION VALVE, CONTAINED WITHIN A 30" RISER WITH LID MODEL FLD30G. PACK BOTTOM OF RISER WITH HDPE FOAM TO SEAL FROM PESTS.

G. DISCHARGE HOSE AND VALVE ASSEMBLY
1. ORENCO SYSTEMS, INC. (OR APPROVED EQUAL) MODEL HV-200-AS,B,C,Q,X, 2-INCH DIAMETER, 64 PSI PVC BALL VALVE, 64 PSI PVC CHECK VALVE, PVC FLEX HOSE WITH WORKING PRESSURE RATING OF 64 PSI, AND SCHEDULE 40 PVC PIPE.

H. FLOAT SWITCH ASSEMBLY
1. ORENCO SYSTEMS, INC. (OR APPROVED EQUAL) MODEL MFP MOUNTED ON A PVC STEM ATTACHED TO THE FILTER CARTRIDGE. THE FLOATS MUST BE ADJUSTABLE AND MUST BE REMOVABLE WITHOUT REMOVING THE PUMP VAULT. THE HIGH AND LOW LEVEL ALARMS AND ON/OFF FUNCTIONS SHALL BE PRESET AS SHOWN IN THE ENGINEER'S PLANS. EACH FLOAT LEAD SHALL BE SECURED WITH A NYLON STRAIN RELIEF BUSHING AT THE SPLICE BOX. THE FLOATS SHALL BE UL OR CSA LISTED AND SHALL BE RATED FOR A MINIMUM OF 5.0A @ 120 VAC.

I. HIGH HEAD EFFLUENT PUMP
1. TREATMENT SYSTEM DOSING: ORENCO SYSTEMS INC. MODEL PF3015 (2 EA), 1-1/2 HP, 200V, THREE PHASE WITH HEAVY DUTY ELECTRICAL CORD WITH GROUND (OR APPROVED EQUAL). PUMP SHALL BE CAPABLE OF PROVIDING A FLOW OF 25 GPM AGAINST A HEAD OF 70 FEET. PUMP SHALL BE CLASS 1, DIVISION 1 RATED AND UL AND CSA LISTED AS AN EFFLUENT PUMP. PUMP SHALL BE PROVIDED WITH A NON-PRORATED FIVE-YEAR WARRANTY.
2. DRAINFIELD DOSING PUMP: ORENCO SYSTEMS INC. MODEL PF3015 (3 EA), 1-1/2 HP, 230V, SINGLE PHASE WITH HEAVY DUTY ELECTRICAL CORD WITH GROUND (OR APPROVED EQUAL). PUMP SHALL BE CAPABLE OF PROVIDING A FLOW OF 25 GPM AGAINST A HEAD OF 55 FEET. PUMP SHALL BE CLASS 1, DIVISION 1 RATED AND UL AND CSA LISTED AS AN EFFLUENT PUMP. PUMP SHALL BE PROVIDED WITH A NON-PRORATED FIVE-YEAR WARRANTY.

J. ELECTRICAL SPLICE BOX
1. ORENCO SYSTEMS, INC. CLASS 1, DIVISION 1 RATED SYSTEM (OR APPROVED EQUAL), UL APPROVED FOR WET LOCATIONS, EQUIPPED WITH ELECTRICAL. ALSO INCLUDED SHALL BE UL LISTED WATERPROOF BUTT SPLICE CONNECTORS.

K. CONTROLS AND ALARMS
1. CONTROLS AND ALARMS SHALL BE LISTED PER UL 698A. PANELS SHALL BE REPAIRABLE IN THE FIELD WITHOUT THE USE OF SOLDERING IRONS OR SUBSTANTIAL DISASSEMBLY. PANEL SHALL BE DUPLEX OR TRIPLEX SYSTEM WITH ALTERNATING PUMP CONTROLS AS MANUFACTURED BY ORENCO SYSTEMS (OR APPROVED EQUAL) AND SHALL INCLUDE A PROGRAMMABLE DOSE TIMER WITH HOUR METER AND EVENT COUNTER. ALL MECHANICAL & ELECTRICAL COMPONENTS SHALL BE RATED FOR WASTEWATER APPLICATIONS. ELECTRICAL COMPONENTS AND WIRING MUST COMPLY WITH WAC 296-46B-501. CONTROL PANEL ENCLOSURE MUST BE SECURE FROM TAMPERING AND WEATHER RESISTANT. COMPONENTS MUST HAVE QUICK DISCONNECTS FOR PUMP REMOVAL.

L. INSTALLATION
ALL PUMPING SYSTEM COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, THE ENGINEER'S PLANS, AND ALL STATE AND LOCAL REGULATIONS.

M. BEDDING MATERIAL (SEPTIC TANKS)
BEDDING MATERIAL SHALL BE PRIMARILY SAND AND GRAVEL, HAVING A PLASTICITY INDEX LESS THAN 6. GRADATION SHALL LIMIT THE AMOUNT PASSING THE NO. 200 SIEVE TO 10% MAXIUMUM. BEDDING MATERIAL MUST COMPLY WITH THE GRADING REQUIREMENTS FOR THE SIEVE SIZES SHOWN IN THE TABLE BELOW OR AS APPROVED BY THE MANUFACTURER:

SIEVE SIZE	PERCENT PASSING
1-1/2"	99-100
1"	75-100
5/8"	50-100
NO. 4	20-80
NO. 40	3-4
NO. 200	10 MAX
SAND EQUIVALENT	35 MIN

COMPACTION SHALL BE 95% MODIFIED PROCTOR OR PER MANUFACTURER'S RECOMMENDATION.

N. PRIMARY BACKFILL(SEPTIC TANKS)
PRIMARY BACKFILL MUST BE CLEAN, FREE FLOWING, AND FREE OF DIRT, SAND, LARGE ROCKS, ROOTS, ORGANIC MATERIALS, DEBRIS, ICE AND SNOW AND CONSISTING OF EITHER ROUNDED OR CRUSHED STONE. AGGREGATE MATERIAL MUST COMPLY WITH THE GRADING REQUIREMENTS FOR THE SIEVE SIZES SHOWN IN THE TABLES BELOW OR AS APPROVED BY THE MANUFACTURER:

ROUNDED STONE			
ASTM C 33 SIZE #	#6 STONE	#67 STONE	#7 STONE
1" (25 MM)	100	100	-
3/4" (19 MM)	90-100	90-100	100
1/2" (12.5 MM)	10-55	-	90-100
3/8" (9.5 MM)	0-15	20-55	40-70
NO. 4 .187" (4.75 MM)	0-5	0-10	0-15
NO. 8 .094" (2.36 MM)	-	0-5	0-5

CRUSHED STONE		
ASTM C 33 SIZE #	#7 STONE	#8 STONE
1" (25 MM)	-	-
3/4" (19 MM)	100	-
1/2" (12.5 MM)	90-100	100
3/8" (9.5 MM)	40-70	85-100
NO. 4 .187" (4.75 MM)	0-15	10-30
NO. 8 .094" (2.36 MM)	0-5	0-10

COMPACTION SHALL BE 95% MODIFIED PROCTOR OR PER MANUFACTURER'S RECOMMENDATION.

O. MONITORING PORTS
PORTS SHALL BE 4-IN DIAMETER, HAVE A CAP OR COVER, ACCESSIBLE AT GRADE, AND ANCHORED.

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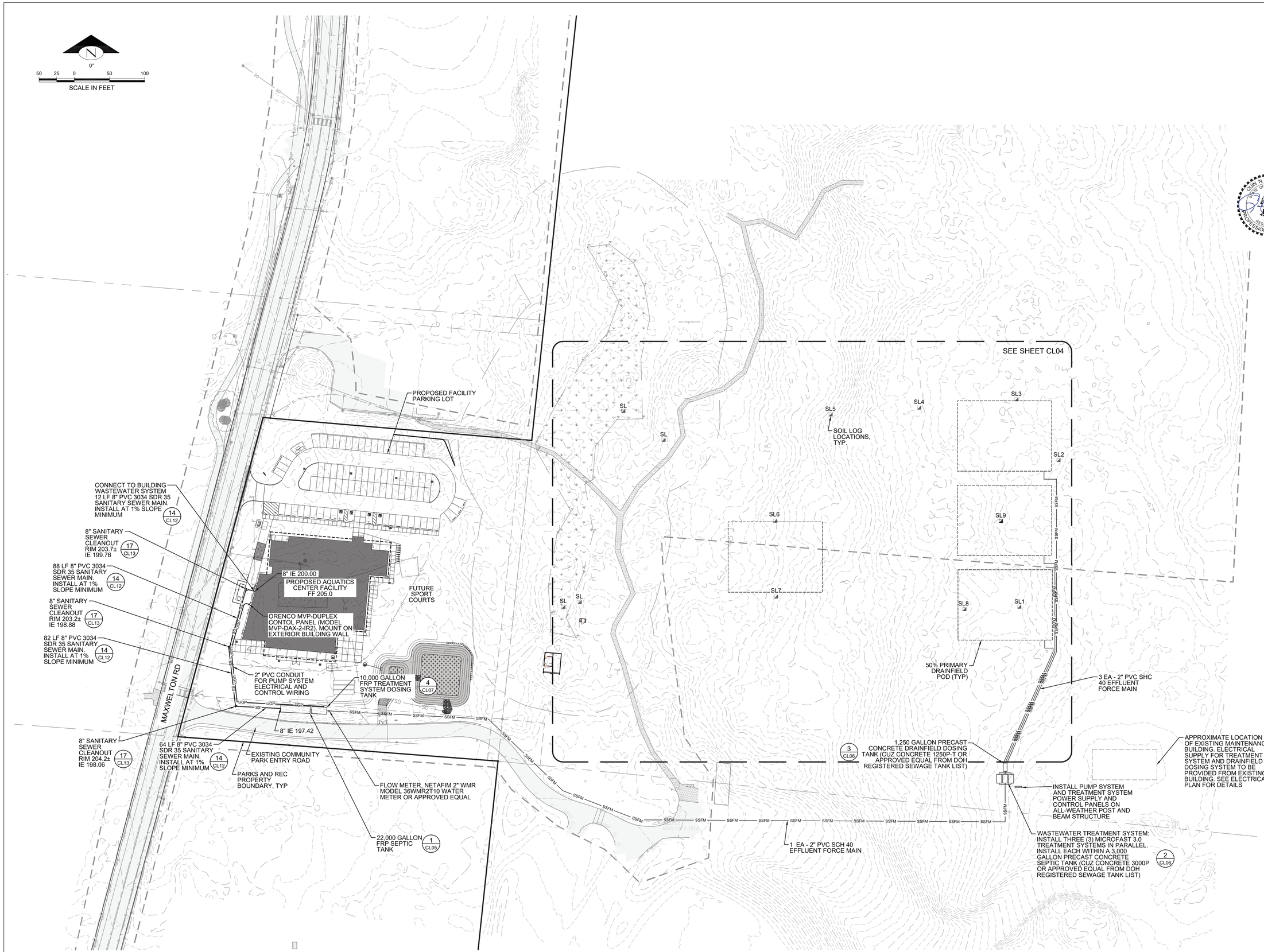

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OVERALL PLAN

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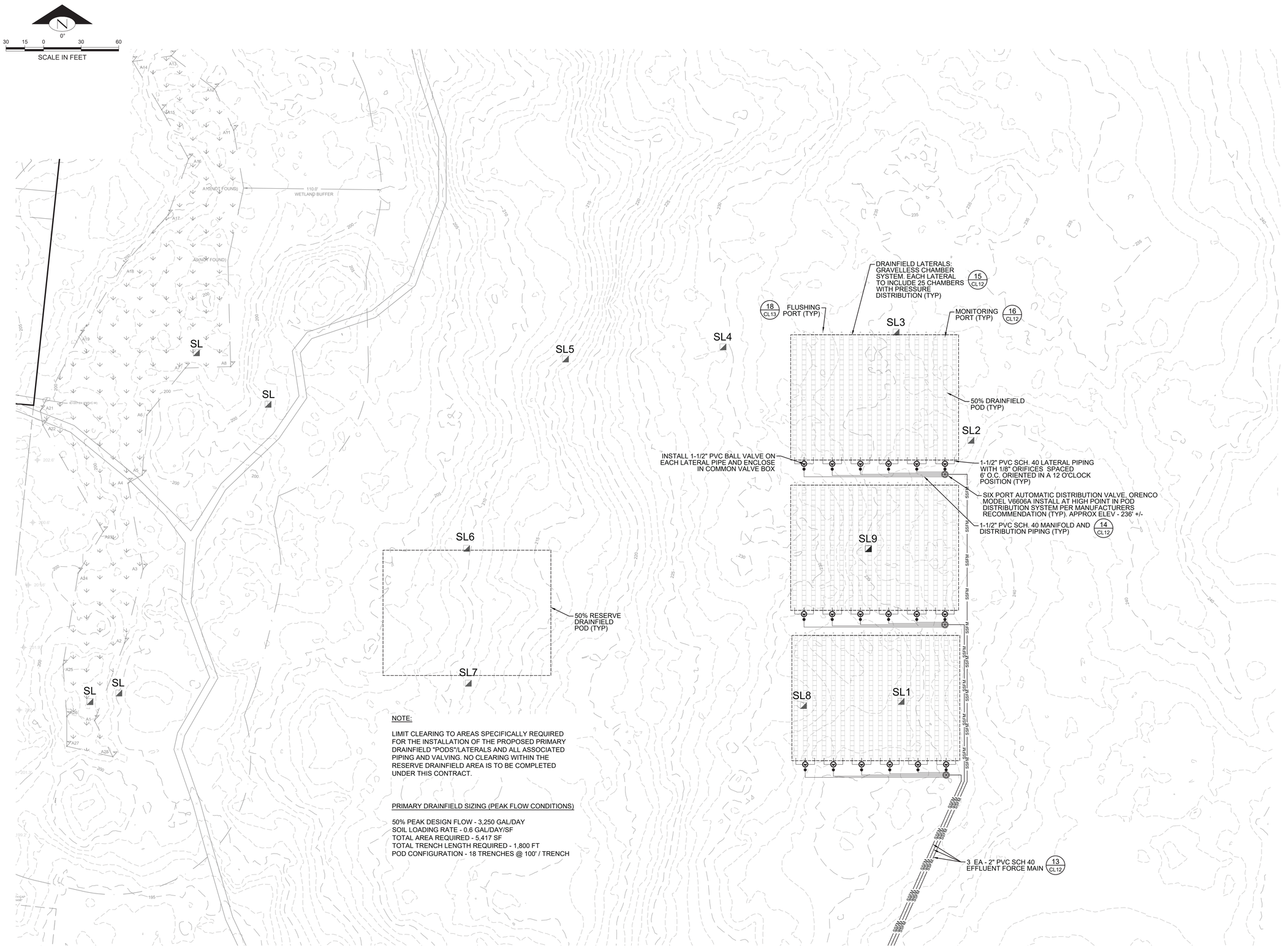

NOTE:

LIMIT CLEARING TO AREAS SPECIFICALLY REQUIRED FOR THE INSTALLATION OF THE PROPOSED PRIMARY DRAINFIELD "PODS"/LATERALS AND ALL ASSOCIATED PIPING AND VALVING. NO CLEARING WITHIN THE RESERVE DRAINFIELD AREA IS TO BE COMPLETED UNDER THIS CONTRACT.

PRIMARY DRAINFIELD SIZING (PEAK FLOW CONDITIONS)

50% PEAK DESIGN FLOW - 3,250 GAL/DAY
SOIL LOADING RATE - 0.6 GAL/DAY/SF
TOTAL AREA REQUIRED - 5,417 SF
TOTAL TRENCH LENGTH REQUIRED - 1,800 FT
POD CONFIGURATION - 18 TRENCHES @ 100' / TRENCH

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SOILS LOG SITE PLAN

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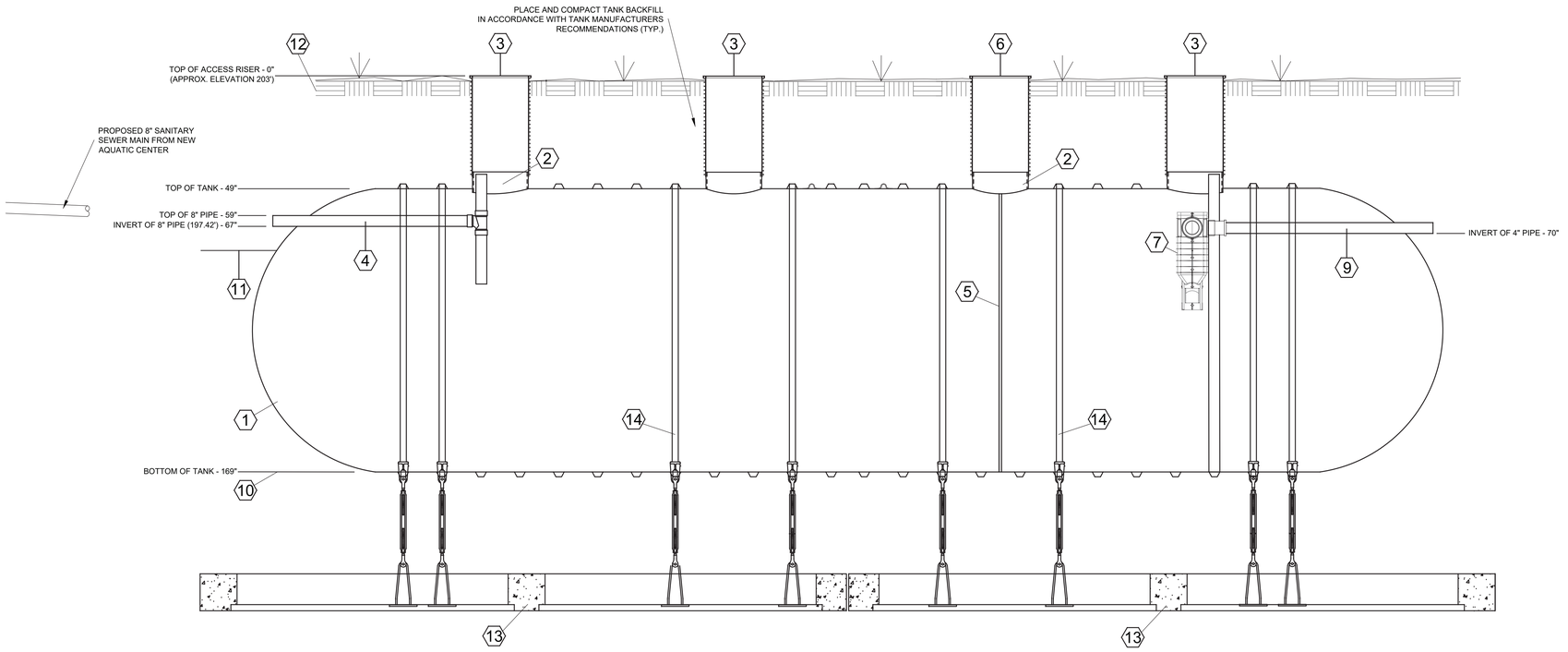

1	22,000 GALLON XERXES SINGLE WALL FRP TANK (10-FT DIAMETER) - 2 COMPARTMENT AS SUPPLIED BY FEXTEX (509) 965-8437 OR APPROVED EQUAL, TANK MUST BE WATER-TIGHT TESTED
2	30-IN FRP OPENING (4 TOTAL).
3	30-IN RIBBED PVC RISER W/ FRP LID (3 TOTAL).
4	8-IN SCH.40 PVC INLET PIPING W/SANITARY TEE
5	FULL HEIGHT BAFFLE WALL PARTITION WITH CROSS OVERHOLES, 3 EACH AT 60" CC, 1 @ TOP OF TANK
6	30-IN RIBBED PVC RISER W/ FRP VENTED LID AND CARBON FILTER
7	COMMERCIAL GRADE EFFLUENT FILTER - POLYLOK MODEL PL-525 OR EQUAL
8	NOT USED
9	4-IN SCH.40 PVC OUTLET PIPING
10	INSTALL BEDDING MATERIAL PER MANUFACTURER
11	INSTALL PRIMARY BACKFILL TO 75% OF TANK HEIGHT PER MANUFACTURER
12	INSTALL NATIVE MATERIAL FROM PRIMARY BACKFILL TO GRADE
13	22-FT PRECAST CONCRETE DEADMAN (2 EACH SIDE - 4 TOTAL)
14	HOLD DOWN STRAP AND TURNBUCKLE ASSEMBLY (8 EACH SIDE - 4 PER DEADMAN)

SEPTIC TANK SIZING

STORAGE REQUIREMENT - 19,500 GALLONS
LIQUID VOLUME PROVIDED BELOW OUTLET - 20,169 GALLONS

PRIMARY SEPTIC TANK DETAIL

NTS

1 / CL03

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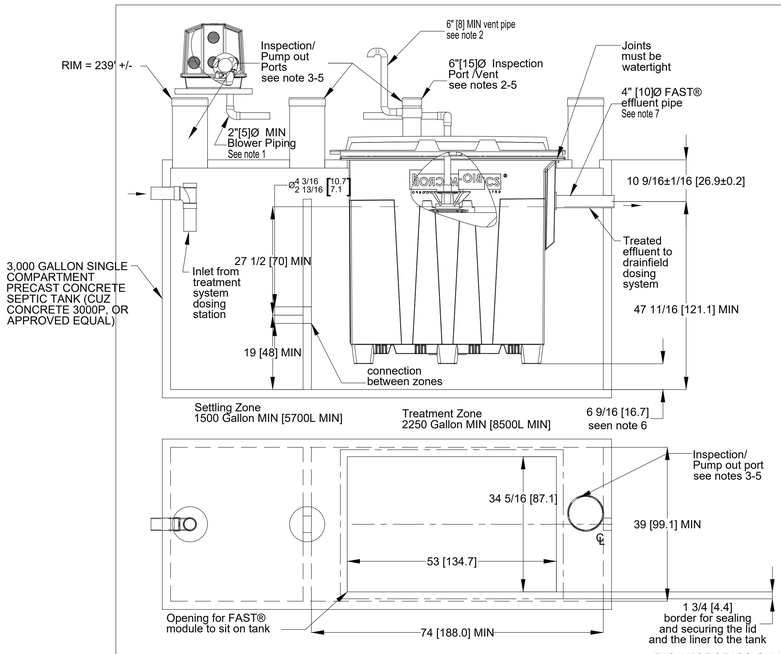

NOTES

1. Airline piping to FAST® may not exceed 100 FT [30m] total length and have a maximum of 4 elbows in the piping system. For distances greater than 100 FT [30m] consult factory. Blower must be located above flood levels on a concrete base 42" X 28" X 2" [105 X 70 X 5cm] min.
2. Vent to desired location and cover opening with a vent grate with at least 20 sq in. [125 sq. cm] open surface area. Secure with stainless steel screws. Vent piping must not allow condensate build up or create back pressure. Vent must be above finished grade or higher (see sheet 4 of 4).
3. All appurtenances to FAST® (e.g. tanks, access ports, electrical, etc.) must conform to all applicable country, state, province, and local plumbing and electrical codes. Pump out access shall be adequate to thoroughly clean out both zones.
4. All inspection, viewing and pump out ports must be secured to prevent accidental or unauthorized access.
5. Tank, piping, conduit, etc. are provided by others. Blower control system by Bio-Microbics, Inc. See Installation Manual.
6. If less than the specified minimums are considered necessary, consult factory for guidance.
7. All piping and ancillary equipment installed after FAST must not impede nor restrict free flow of effluent.
8. The tank(s) shall be designed to prevent air passage between the settling zone/tank and the treatment zone and preventing an air lock. Examples include a baffle wall sealed to the lid, and treatment zone inlet line with a pipe cap. Consult factory for guidance.
9. Installations using a FAST® system lid are capable of withstanding AASHTO H-10 equivalent loads. Any installation in which a FAST lid is buried deeper than 3 feet, or where additional loading conditions may occur, a professional engineer should be consulted. FAST® with feet option should be considered. Refer to Installation Manual for more details.
10. Specialized treatment levels may require specific features to be incorporated into the design. Consult factory for guidance.

DO NOT SCALE

UNLESS NOTED DIMENSIONS ARE IN INCHES [CENTIMETERS] TOLERANCES ± 0.02 IN/IN [± 0.05 CM/CM]

BIO MICROBICS
BETTER WATER. BETTER WORLD.

MicroFAST 3.00 FAST Unit

BIO-MICROBICS © 2014

	NAME	DATE
WEIGHT	lb	
DRAWN	CTC	12/18/2006
CHECKED	PF	9/23/2013

SIZE A | DRAWING NUMBER: MicroFAST® 3.00 with lid (3 ea) | SHEET 1 OF 4

REVISED 9/23/2013 | REV. INI-03-Y

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(3 EACH)

BIOMICROBICS MICROFAST 3.0 WASTEWATER TREATMENT UNIT DETAIL

NTS

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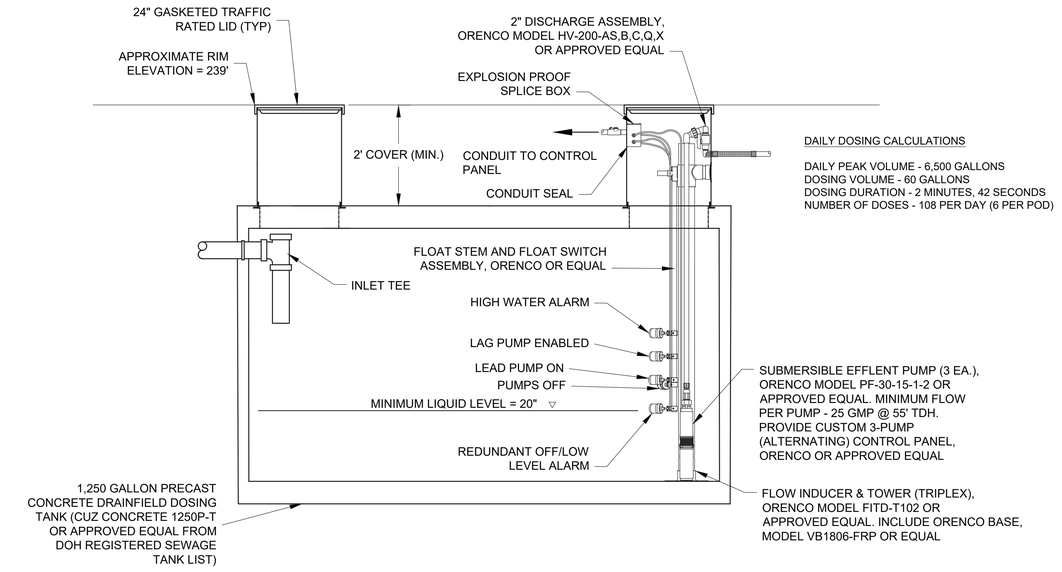

DAILY DOSING CALCULATIONS

DAILY PEAK VOLUME - 6,500 GALLONS
DOSING VOLUME - 60 GALLONS
DOSING DURATION - 2 MINUTES, 42 SECONDS
NUMBER OF DOSES - 108 PER DAY (6 PER POD)

DRAINFIELD SYSTEM DOSING TANK DETAIL

NTS

3 / CL03

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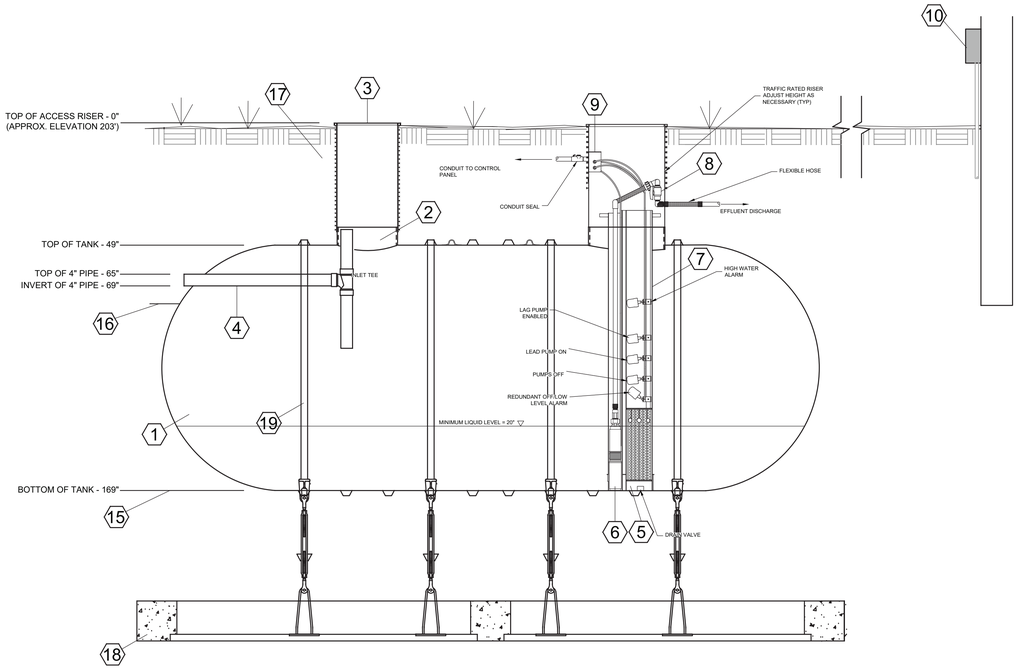

1	10,000 GALLON XERXES SINGLE WALL FRP TANK (10-FT DIAMETER) - AS SUPPLIED BY FEXTEX (509) 965-8437 OR APPROVED EQUAL, TANK MUST BE WATER-TIGHT TESTED
2	30-IN FRP OPENING (2 TOTAL).
3	30-IN RIBBED PVC RISER W/ FRP LID (2 TOTAL).
4	4-IN SCH.40 PVC INLET PIPING W/SANITARY TEE
5	12" BIOTUBE DUPLEX PUMP VAULT, ORENCO MODEL X4D1272, OR APPROVED EQUAL
6	ORENCO MODEL PF3015 EFFLUENT PUMP (2-EA) OR APPROVED EQUAL, MINIMUM FLOW PER PUMP - 25 GPM, 70' TDH
7	LEVEL CONTROL FLOAT ASSEMBLY OR APPROVED EQUAL
8	DISCHARGE ASSEMBLY ORENCO MODEL HV-200-B,C,Q,X, OR APPROVED EQUAL
9	PVC SPLICE BOX W/ CORD GRIPS
10	ORENCO MVP-DUPLEX CONTROL PANEL (MODEL MVP-DAX-2-IR2). MOUNT ON EXTERIOR BUILDING WALL PER SITE PLAN
11	NOT USED
12	NOT USED
13	NOT USED
14	NOT USED
15	INSTALL BEDDING MATERIAL PER MANUFACTURER.
16	INSTALL PRIMARY BEDDING TO 75% OF TANK HEIGHT PER MANUFACTURER.
17	INSTALL NATIVE MATERIAL FROM PRIMARY BEDDING TO GRADE
18	22-FT PRECAST CONCRETE DEADMAN (1 EACH SIDE - 2 TOTAL)
19	HOLD DOWN STRAP AND TURNBUCKLE ASSEMBLY (4 EACH SIDE - 4 PER DEADMAN)

DOSING TANK SIZING

REQUIRED EMERGENCY STORAGE - 6,500 GALLONS
DOSING VOLUME - 60 GALLONS
AIR SPACE/INLET DEAD STORAGE - 795 GALLONS
PUMP SUBMERSION DEAD STORAGE - 1,475 GALLONS
TANK SIZE - 10,000 GALLONS
AVAILABLE SLUDGE STORAGE - 1,170 GALLONS

DRAINFIELD SYSTEM DOSING TANK DETAIL

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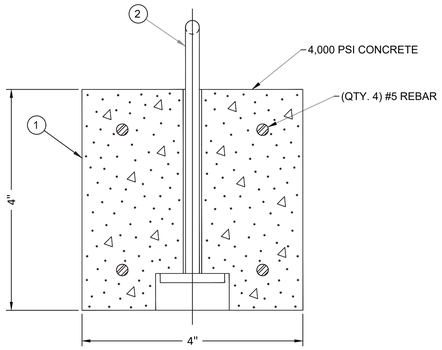
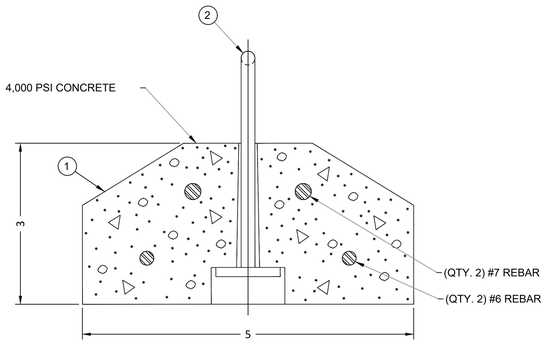
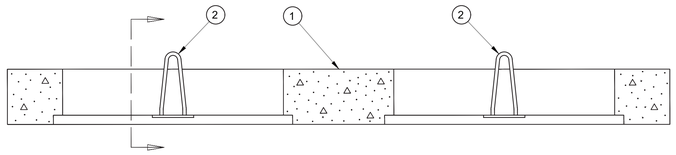






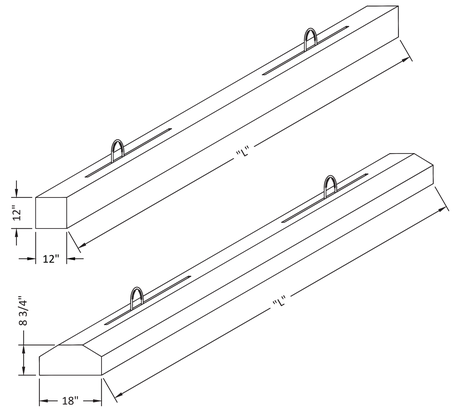
ITEM	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	UNIT	DESCRIPTION
1	2	2	2			4	4	2				4	2		EA	DEADMAN, 12"x12"x12'
1				2				2	4	4		2	4	6	EA	DEADMAN, 12"x12"x16'
1					2						4				EA	DEADMAN, 12"x12"x18'
2	4	4	4	4	4	8	8	8	8	8	8	12	12	12	EA	GALVANIZED ANCHOR POINT
	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000	11,000	12,000	13,000	14,000	15,000		8' TANKS

ITEM	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	UNIT	DESCRIPTION
1				4	4	4			4					EA	DEADMAN, 8 3/4"x18"x14'
1							4		2	6	2	8		EA	DEADMAN, 8 3/4"x18"x18'
1	2	2	2					4			4			EA	DEADMAN, 8 3/4"x18"x22'
2	8	8	8	8	8	8	12	16	16	20	24	28		EA	GALVANIZED ANCHOR POINT
	10,000	11,000	12,000	13,000	14,000	15,000	20,000	22,000	25,000	30,000	35,000	40,000			10' TANKS

ITEM	QTY	QTY	QTY	UNIT	DESCRIPTION
1	2	2		EA	DEADMAN, 12"x12"x12'
1			2	EA	DEADMAN, 12"x12"x16'
2	4	4	4	EA	GALVANIZED ANCHOR POINT
	600	1,000	1,500		4' TANKS

ITEM	QTY	QTY	QTY	QTY	QTY	QTY	QTY	QTY	UNIT	DESCRIPTION
1	2	2			4				EA	DEADMAN, 12"x12"x12'
1			2			4			EA	DEADMAN, 12"x12"x16'
1				2			4		EA	DEADMAN, 12"x12"x18'
2	4	4	4	4	8	8	8		EA	GALVANIZED ANCHOR POINT
	1,500	2,000	3,000	4,000	5,000	6,000	8,000			6' TANKS

PRECAST ANCHOR POINT ASSEMBLY 5 CL07
NTS



XERXES PRECAST DEADMEN

- XERXES DEADMEN ARE ENGINEERED AND DESIGNED TO BE USED WITH XERXES TANKS.
- IN MULTIPLE TANK INSTALLATIONS, EACH TANK REQUIRES ITS OWN SET OF DEADMEN.
- FOR CAST IN PLACE OR DEADMAN CONSTRUCTED OFF SITE, REFER TO XERXES INSTALLATION MANUAL AND OPERATING GUIDELINES FOR PROPER SIZING AND ANCHOR POINT SPECIFICATIONS.

XERXES DEADMAN			
TANK SIZE GALLONS	QTY	"L"	APPROX. WEIGHT EACH
4'-600	2	12'	1,800 LBS
4'-1,000	2	12'	1,800 LBS
4'-1,500	2	16'	2,400 LBS
6'-1,500	2	12'	1,800 LBS
6'-2,000	2	12'	1,800 LBS
6'-3,000	2	16'	2,400 LBS
6'-4,000	2	18'	2,700 LBS
6'-5,000	4	12'	1,800 LBS
6'-6,000	4	16'	2,400 LBS
6'-8,000	4	18'	2,700 LBS
8'-2,000	2	12'	1,800 LBS
8'-3,000	2	12'	1,800 LBS
8'-4,000	2	12'	1,800 LBS
8'-5,000	2	16'	2,400 LBS
8'-6,000	2	18'	2,700 LBS
8'-7,000	4	12'	1,800 LBS
8'-8,000	4	12'	1,800 LBS
8'-9,000	2	12'	1,800 LBS
	2	16'	2,400 LBS
8'-10,000	4	16'	2,400 LBS
8'-11,000	4	16'	2,700 LBS
8'-12,000	4	18'	2,700 LBS
8'-13,000	4	12'	1,800 LBS
	2	16'	2,400 LBS
8'-14,000	2	12'	1,800 LBS
	4	16'	2,400 LBS
8'-15,000	6	16'	2,400 LBS
10'-10,000	2	22'	3,000 LBS
10'-11,000	2	22'	3,000 LBS
10'-12,000	2	22'	3,000 LBS
10'-13,000	4	14'	1,900 LBS
10'-14,000	4	14'	1,900 LBS
10'-15,000	4	14'	1,900 LBS
10'-20,000	4	18'	2,400 LBS
10'-22,000	4	22'	3,000 LBS
10'-25,000	4	14'	1,900 LBS
	2	18'	2,400 LBS
10'-30,000	6	18'	2,400 LBS
10'-35,000	2	18'	2,400 LBS
	4	22'	3,000 LBS
10'-40,000	8	18'	2,400 LBS

PRECAST DEADMAN 6 CL07
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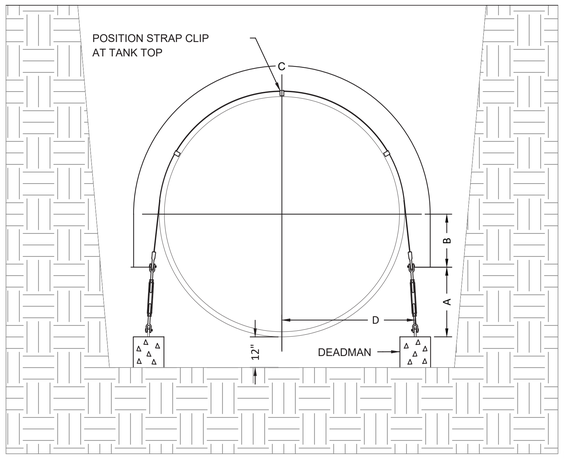

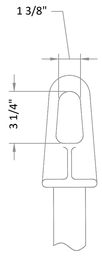

GALVANIZED STRAP EYE

	ANCHORING DIMENSIONS				
TANK DIA.	"A"	"B"	"C"	"D" MIN.	"D" MAX.
4'	18"	12"	8'-4-1/4"	27"	30"
6'	23"	13"	12'-1"	42"	48"
8'	31"	15"	15'-1"	52"	58"
10'	45"	15"	18'-8-3/4"	69"	75"
12'	50"	23"	22'-6-3/4"	87"	93"

HOLD DOWN STRAP DIMENSIONS

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7
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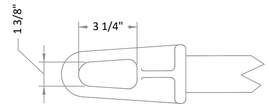
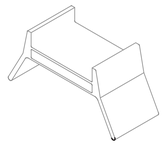


GALVANIZED STRAP EYE



ALUMINUM STRAP GUIDE

HOLD-DOWN STRAPS	
TANK SIZE	STRAP LENGTH "L"
4' DIA.	8'-4 1/4"
6' DIA.	12'-1"
8' DIA.	15'-1"
10' DIA.	18'-8 3/4"
12' DIA.	22'-6 3/4"

NOTE: STRAPS ARE RATED AT MINIMUM 25,000 LBS.

HOLD DOUBLE D-LUG STRAP DOWN STRAPS

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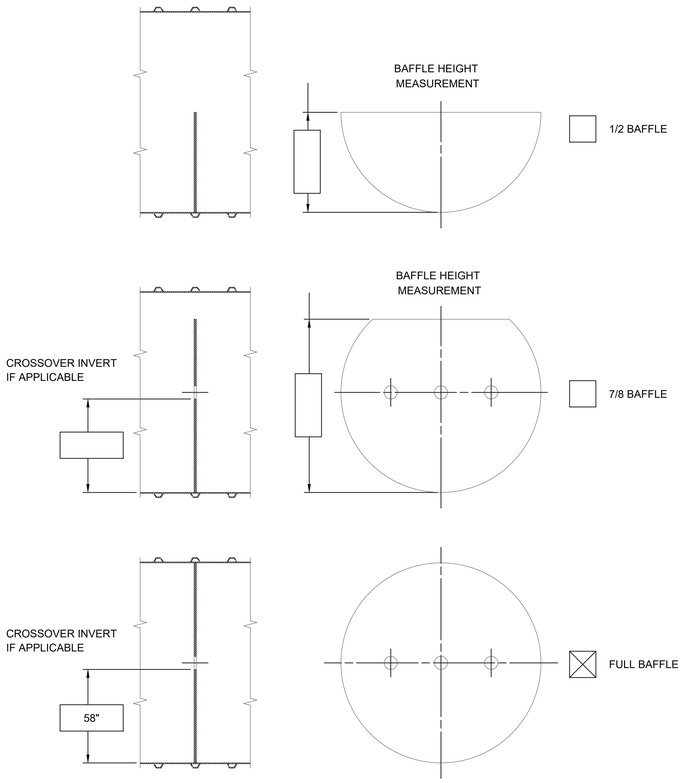
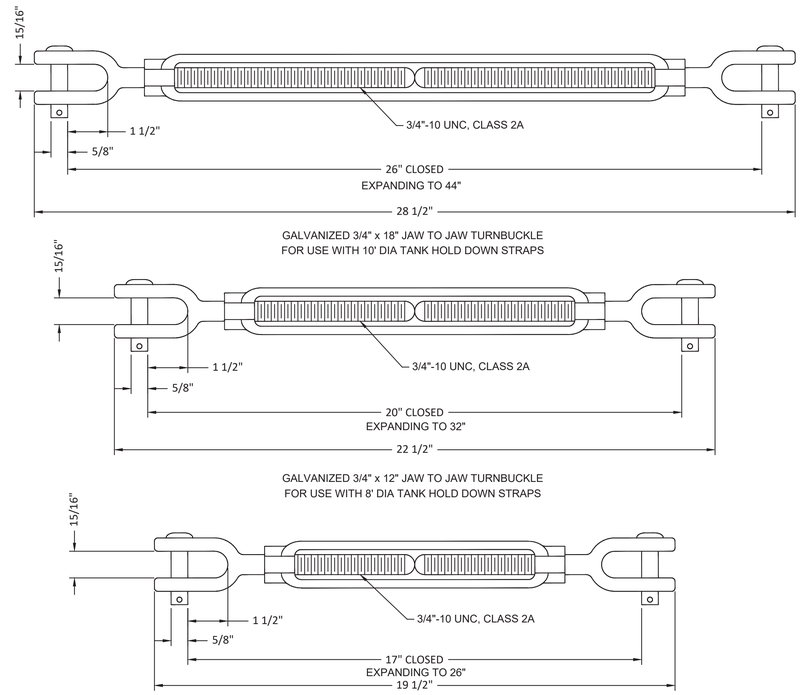


BAFFLE CROSSOVER WILL BE: (PLEASE CHECK ONE)	☒	FLOW-THROUGH HOLES
	☐	CROSSOVER PIPING
IF USING FLOW-THROUGH HOLES:	4"	DIAMETER OF HOLE(S)
	3"	QUANTITY OF HOLE(S)
BAFFLE MUST PROVIDE A SOLID BARRIER FOR LIQUIDS/SOLIDS SEPARATION	☒	YES
	☐	NO

BAFFLE PARTITION WALLS DETAIL 9 CL07
NTS



GALVANIZED 3/4" x 18" JAW TO JAW TURNBUCKLE
FOR USE WITH 10' DIA TANK HOLD DOWN STRAPS

GALVANIZED 3/4" x 12" JAW TO JAW TURNBUCKLE
FOR USE WITH 8' DIA TANK HOLD DOWN STRAPS

GALVANIZED 3/4" x 9" JAW TO JAW TURNBUCKLE
FOR USE WITH 6' DIA TANK HOLD DOWN STRAPS

JAW TO JAW TURNBUCKLES DETAIL 10 CL07
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DETAILS
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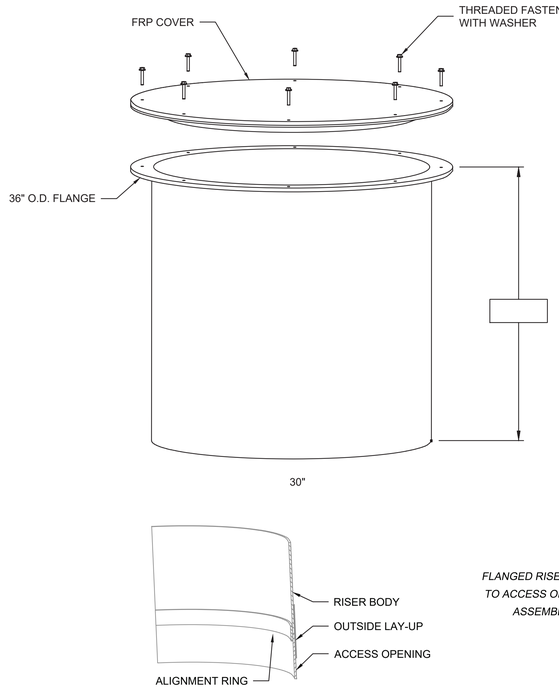

NOTES:
- FRP access risers are available in 1' increments starting at 2' high.
- FRP access risers mate to corresponding FRP access opening.

FLANGED RISER BODY TO ACCESS OPENING ASSEMBLY

PRECAST 24-IN, 30-IN, & 36-IN DIA PVC RISER WITH FRP LID

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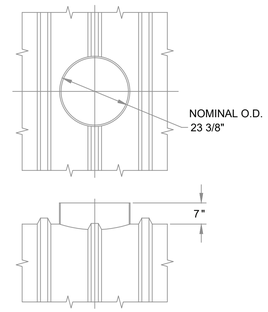
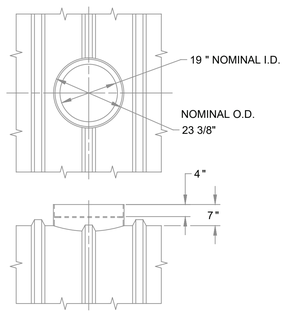
11

CL05 - CL07

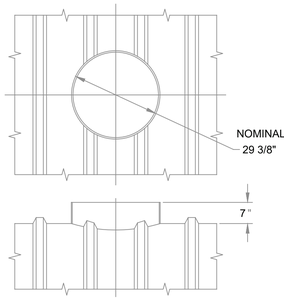


24" DIA ACCESS OPENING

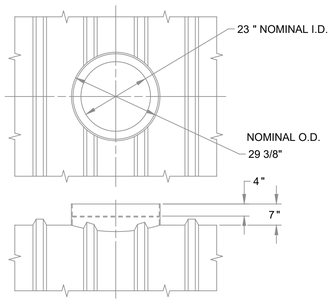


24" DIA ACCESS OPENING
WITH INTERNAL FLANGE

NOTE: A 30" DIA. ACCESS OPENING IS ALWAYS CENTERED ON A FLAT.



30" DIA ACCESS OPENING



30" DIA ACCESS OPENING
WITH INTERNAL FLANGE

24-IN & 30-IN ACCESS OPENNINGS

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CL05 - CL07

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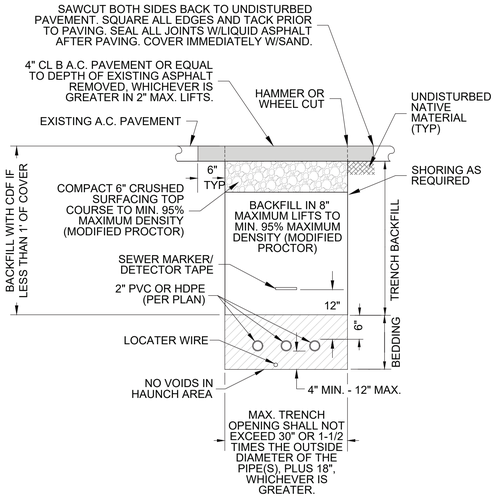
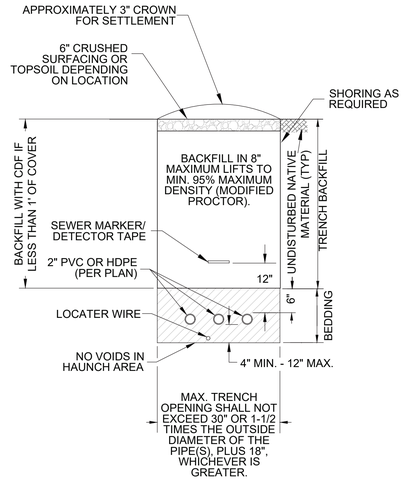


PAVED AREA

NOTES:

1. DETAIL PERTAINS TO PIPE SIZES 12" AND UNDER.
2. ALL TRENCH BACKFILL SHALL BE CLEAN EARTH OR SAND, FREE FROM CLAY, FROZEN LUMPS, ROOTS OR MOISTURE IN EXCESS OF THAT PERMITTING REQUIRED COMPACTION. ROCKS OR LUMPS LARGER THAN 3 INCHES MAXIMUM SHALL NOT BE USED FOR PIPE ZONE BACKFILL.
3. PIPE ZONE BEDDING PER APWA.
4. USE OF NATIVE MATERIAL FOR BACKFILL MAY BE APPROVED BY THE ENGINEER.
5. LOCATER WIRES SHALL BE BLUE COATED 14 GAGE COPPER WIRE CONTINUOUS TO ABOVE GROUND ACCESS POINTS (METERS & VALVES) SPLICES IN WIRE, IF NEEDED, SHALL BE MADE WITH WATERPROOF SPLICE KITS.
6. WATER SETTLING OF BACKFILL NOT ALLOWED
7. MINIMUM COVER OVER ALL SEWER MAINS SHALL BE 3'. WHERE PROPOSED SEWER MAIN CROSSES EXISTING WATER MAIN PROVIDE A MINIMUM OF 1.5' OF VERTICAL SEPARATION BETWEEN THE SEWER MAIN AND THE WATER MAIN (SEWER BELOW WATER) IN ACCORDANCE WITH OAR 333-061-0050

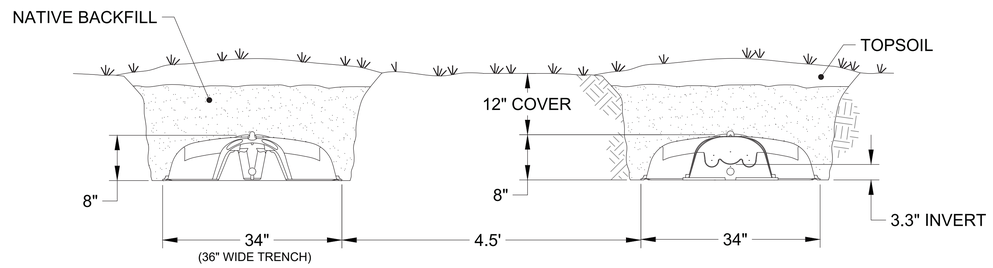


UN-PAVED AREA

TYPICAL UTILITY TRENCH (3x FORCE MAINS)

NTS

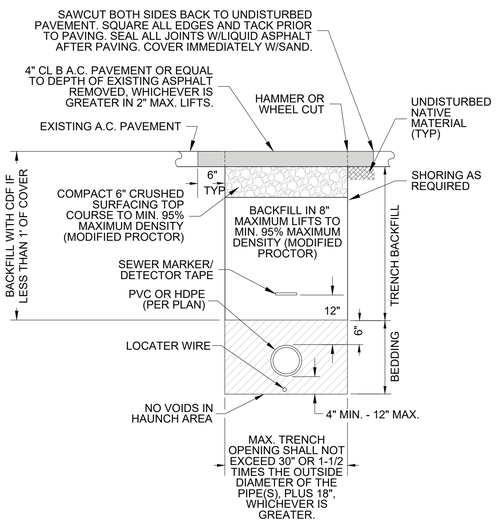
13
CL03 & CL04



DRAINFIELD TRENCH CROSS SECTION

NTS

15
CL04



PAVED AREA

NOTES:

1. DETAIL PERTAINS TO PIPE SIZES 12" AND UNDER.
2. ALL TRENCH BACKFILL SHALL BE CLEAN EARTH OR SAND, FREE FROM CLAY, FROZEN LUMPS, ROOTS OR MOISTURE IN EXCESS OF THAT PERMITTING REQUIRED COMPACTION. ROCKS OR LUMPS LARGER THAN 3 INCHES MAXIMUM SHALL NOT BE USED FOR PIPE ZONE BACKFILL.
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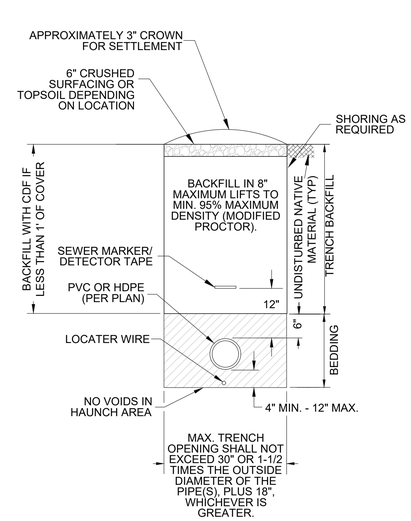
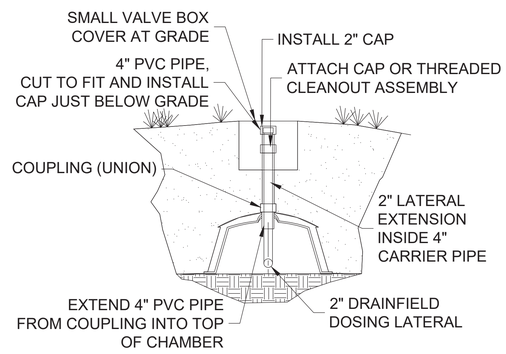


UN-PAVED AREA

TYPICAL UTILITY TRENCH (SINGLE PIPE)

NTS

14
CL03 & CL04



MONITORING PORT DETAIL

NTS

16
CL04

a|r|c architecture resource collaborative
119 MAIN ST, STE #200
SEATTLE, WA 98104-2579
(206) 322-3322

GLEN N. CLEMENTS STATE OF WASHINGTON 21751 REGISTERED PROFESSIONAL ENGINEER
5/23/2025

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Freeland, WA 98249
P: 360.331.4131
www.facetnw.com
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S WHIDBEY PARKS & REC AQUATIC REC CENTER

PID 812720 MAXWELTON RD
LANGLEY, WA 98260

South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description

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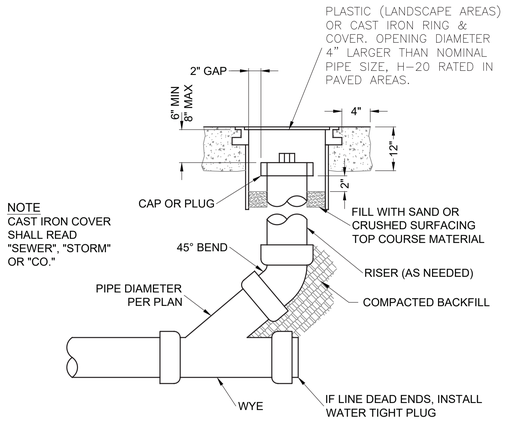
SHEET

DETAILS

SCALE:	SEE BAR SCALE
DRAWN:	GR
CHECKED:	QC
PROJECT NO:	2022021.000

SHEET:

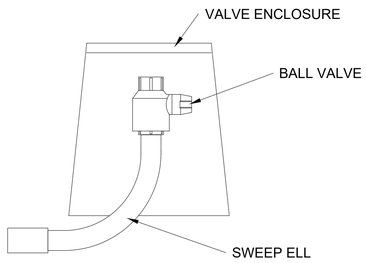
CL12 OF 13



NOTE
CAST IRON COVER SHALL READ "SEWER", "STORM" OR "CO."

SANITARY SEWER CLEANOUT DETAIL
NTS

17
CL03



FLUSHING PORT DETAIL
NTS

18
CL04

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architecture resource | collaborative
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(206) 322-3322

QUINN N CLEMENTS
STATE OF WASHINGTON
21911
REGISTERED
PROFESSIONAL ENGINEER
5/23/2025

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SHEET
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SCALE:	SEE BAR SCALE
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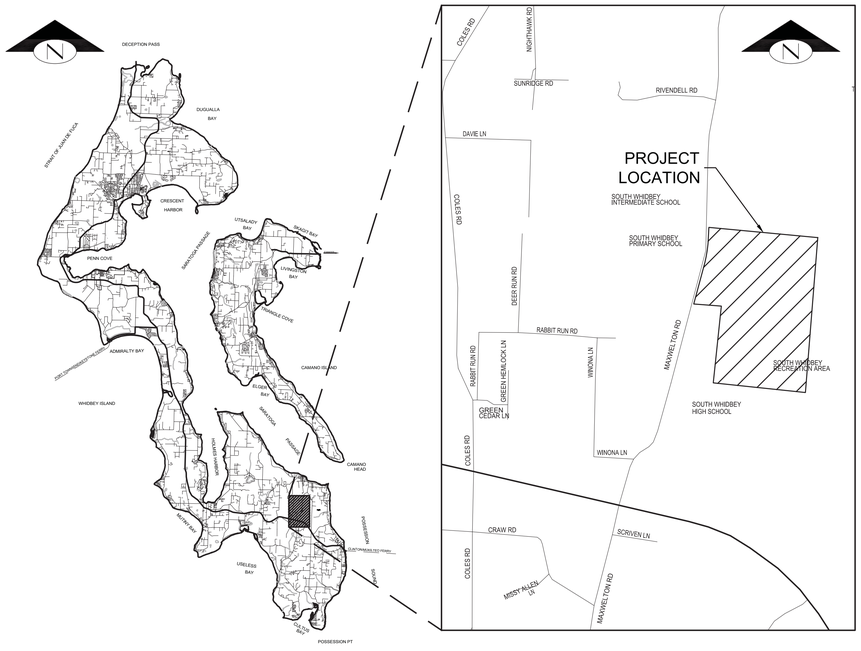
SHEET:
CL13 OF 13

SOUTH WHIDBEY PARKS
WATER SYSTEM IMPROVEMENTS
ISLAND COUNTY, WA



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3	CW03	PLAN SET INDEX
4	CW04	CLEARING & GRADING PLAN STA 5+00 TO 8+00
5	CW05	CLEARING & GRADING PLAN STA 8+00 TO 23+30
6	CW06	WATER MAIN PLAN & PROFILE STA 5+00 TO 8+00
7	CW07	WATER MAIN PLAN & PROFILE STA 8+00 TO 23+30
8	CW08	WATER MAIN PLAN & PROFILE STA 23+30 TO 28+90
9	CW09	WATER MAIN PLAN & PROFILE STA 28+90 TO 34+50
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11	CW11	TREATMENT SYSTEM PLANS
12	CW12	TREATMENT SYSTEM SCHEMATICS & SETTINGS
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16	CW16	PROPOSED RESERVOIR DETAILS
17	CW17	WATER MAIN INSTALLATION DETAILS
18	CW18	WATER MAIN INSTALLATION DETAILS
19	CW19	WATER MAIN INSTALLATION DETAILS

CONTACT INFORMATION:

WATER SYSTEM CONTACT:
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LANGLEY, WA 98260-0136
PH: 360.221.5484

CIVIL ENGINEER:
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FACET
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FREELAND, WA 98249
PH: 360.331.4131

SURVEYOR:
AARON ELI TYSON, P.L.S.
HARMSEN
2822 COLBY AVE, SUITE 300
EVERETT, WA 98201
PH: 360.794.7811

GEOTECHNICAL ENGINEER:
SCOTT PALMER
PALMER GEOTECHNICAL CONSULTANTS, INC.
PO BOX 1562
FREELAND,WA 98249
PH: 360.929.5676

CALL 811
2 BUSINESS DAYS
BEFORE YOU DIG
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

NO.	DATE	BY	REVISION

BASE MAP/TOPOGRAPHY PROVIDED BY OTHERS. FACET CANNOT BE HELD LIABLE FOR ACCURACY. CONTRACTOR SHALL FIELD VERIFY GRADES, UTILITIES, AND ALL OTHER EXISTING FEATURES AND CONDITIONS. IF CONDITIONS ARE NOT AS SHOWN HEREON, CONTACT ENGINEER BEFORE CONTINUING. CONTACT FACET PRIOR TO CONSTRUCTION.

FACET
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JEFFREY M. TASOFF
STATE OF WASHINGTON
41429
REGISTERED
PROFESSIONAL ENGINEER

Digitally signed by Jeffrey M. Tasoff
Date: 2025.06.02 11:14:20 -07'00'

SOUTH WHIDBEY PARKS
WATER SYSTEM IMPROVEMENTS
5491 MAXWELTON RD, LANGLEY, WA 98260
PROJECT NUMBER: 2401.0397.00

CONTRACT DOCUMENTS

COVER

DATE: 06/02/2025

PLAN NUMBER:
CW01
SHEET 1 OF 19

FILE LOCATION: Z:\SHARED\PROJECTS\ACTIVE\2024\01\2401.0397.00 - SWPR WATER SYSTEM\DRAWINGS\CAD-REVIT\ACTIVEFILES\WPR WATER SYSTEM.DWG - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (36.00 X 24.00 INCHES) - LAST MODIFIED BY: SCOTT STALLMAN
PRINCIPAL: JT PROJECT MANAGER: JT DESIGNED BY: MS DRAWN BY: NMD, RB CHECKED BY: JT

WATER NOTES:

1. WATER MAINS, VALVES, FITTINGS, HYDRANTS, SERVICES, AND ALL OTHER COMPONENTS SHALL BE INSTALLED AND PRESSURE TESTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, SECTION 7-09.

2. WATER MAINS SHALL BE INSTALLED WITH A SMOOTH CONTINUOUS GRADE TO THE GREATEST EXTENT FEASIBLE TO MINIMIZE THE CREATION OF HIGH AND LOW POINTS IN THE VERTICAL ALIGNMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING COMBINATION AIR AND VACUUM RELEASE VALVE ASSEMBLIES AT WATER MAIN HIGH POINTS AND INSTALLING BLOW OFF ASSEMBLIES AT WATER MAIN LOW POINTS REGARDLESS OF WHETHER THOSE APPURTENANCES ARE SHOWN ON THE PLANS. CONTRACTOR WILL NOT BE REIMBURSED FOR INSTALLATION OF ADDITIONAL COMBINATION AIR AND VACUUM RELEASE VALVE ASSEMBLIES OR BLOW OFF ASSEMBLIES WHEN A PROPERLY INSTALLED WATER MAIN WOULD HAVE OTHERWISE ELIMINATED THE NEED FOR THESE ITEMS, AS DETERMINED BY THE ENGINEER.

3. THE CONTRACTOR SHALL GIVE THE WATER SYSTEM PURVEYOR/OPERATOR A MINIMUM OF 72 HOURS NOTICE BEFORE ANY PLANNED CONNECTION TO AN EXISTING PIPELINE OR OPERATING EXISTING VALVES. THIS INCLUDES LIVE TAPS. NOTICE IS REQUIRED SO ANY DISRUPTIONS TO EXISTING SERVICES CAN BE SCHEDULED. THE CONTRACTOR SHALL NOTIFY CUSTOMERS INVOLVED IN OR AFFECTED BY THE WATER SERVICE INTERRUPTION 24 HOURS IN ADVANCE OF THE INTERRUPTION. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO SCHEDULE WATER MAIN CONSTRUCTION WITH A MINIMUM OF INTERRUPTION TO WATER SERVICE.

4. IN CERTAIN SITUATIONS, THE WATER PURVEYOR MAY DICTATE SCHEDULING OF WATER MAIN SHUTDOWNS SO AS NOT TO IMPOSE UNNECESSARY SHUTDOWNS DURING SPECIFIC PERIODS TO EXISTING CUSTOMERS.

5. PIPE AND SERVICES SHALL BE INSTALLED WITH CONTINUOUS TRACER TAPE INSTALLED 12 TO 18 INCHES UNDER THE FINAL GROUND SURFACE. NO BREAKS OR SPLICES WILL BE ALLOWED. A CONTINUOUS LOOP SHALL BE PLACED FROM THE MAIN LINE TO THE METER BOX AND BACK TO THE MAIN LINE. THE MARKER SHALL BE PLASTIC NON-BIODEGRADABLE, METAL CORE OR BACKING WHICH CAN BE DETECTED BY A STANDARD METAL DETECTOR. TAPE SHALL BE TERRA TAPE "D" OR APPROVED EQUAL. IN ADDITION TO TRACER TAPE, INSTALL 14 GAUGE COATED COPPER WIRE, TAPED TO THE TOP OF PIPE, BROUGHT UP AND TIED OFF AT A VALVE BODY. TRACER WIRE SHALL HAVE INSULATION INTENDED FOR DIRECT BURY, BLUE IN COLOR.

6. THE MINIMUM COVER FOR ALL WATER MAINS FROM TOP OF PIPE TO FINISH GRADE SHALL BE 36 INCHES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

7. ALL VALVES SHALL HAVE A STANDARD CAST IRON WATER VALVE BOX SET TO GRADE. IF VALVES ARE NOT SET IN PAVED AREA, A 2-FOOT BY 2-FOOT BY 4-INCH TALL CONCRETE PAD SHALL BE SET AROUND EACH VALVE BOX AT FINISHED GRADE. IN AREAS WHERE VALVE BOX FALLS IN ROAD SHOULDER, THE DITCH AND SHOULDER SHALL BE GRADED BEFORE PLACING ASPHALT OR CONCRETE PAD.

8. ALL FORM RELEASE AGENTS AND ADMIXTURES USED IN THE CONCRETE WORK THAT WILL COME INTO CONTACT WITH DRINKING WATER MUST CONFORM TO NSF 60 REQUIREMENTS.

9. WATER MAINS SHALL BE FLUSHED AND DISINFECTED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 7-09.3(24). A SATISFACTORY BACTERIOLOGICAL TEST RESULTS FOR A WATER SAMPLE COLLECTED FROM THE PIPE SHALL BE PROVIDED TO THE ENGINEER PRIOR TO BRINGING THE WATER MAIN INTO SERVICE.

10. WATER MAINS CONSTRUCTED WITH MATERIALS OTHER THAN HDPE SHALL BE PRESSURE TESTED IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATION 7-09.3(23). ENGINEER WILL PROVIDE PRESSURE TEST PROCEDURES FOR HDPE WATER MAINS. SATISFACTORY PRESSURE TEST RESULTS SHALL BE PROVIDED TO THE ENGINEER PRIOR TO BRINGING THE WATER MAIN INTO SERVICE.

11. ALL WATER SYSTEM COMPONENTS COMING INTO CONTACT WITH DRINKING WATER SHALL BE NSF 61 CERTIFIED.

EROSION AND SEDIMENTATION CONTROL (ESC) NOTES:

1. THE CONTRACTOR SHALL MEET APPLICABLE JURISDICTIONAL STANDARDS AND REQUIREMENTS BY USING APPROPRIATE BEST MANAGEMENT PRACTICES (BMPS) FOR EROSION AND SEDIMENTATION CONTROL.

2. DURING AND AFTER CONSTRUCTION, THE CONTRACTOR SHALL MINIMIZE EROSION AND SEDIMENTATION ON-SITE AND SHALL PROTECT PROPERTIES AND WATER COURSES DOWNSTREAM FROM THE SITE FROM EROSION DUE TO INCREASES IN THE VELOCITY AND PEAK FLOW RATE OF STORM WATER RUNOFF FROM THE SITE.

3. THE CONTRACTOR SHALL PREVENT THE TRANSPORT OF SEDIMENT FROM THE SITE THROUGH MEASURES SUCH AS MULCHING, MATTING, COVERING, SILT FENCES, SEDIMENT TRAPS, SETTLING PONDS AND PROTECTIVE BERMS USING THE FOLLOWING BMPS: FILTER FENCE, STRAW BALE BARRIER, BRUSH BARRIER, GRAVEL FILTER BERM, SEDIMENT TRAP, TEMPORARY SEDIMENT POND, PRESERVING NATURAL VEGETATION, AND/OR BUFFER ZONES. TRANSPORT OF SEDIMENT ONTO PAVED SURFACES SHALL BE MINIMIZED, AND IF SEDIMENT IS TRANSPORTED ONTO A PAVED SURFACE, THE PAVED SURFACE SHALL BE CLEANED AT THE END OF EACH DAY IN ACCORDANCE WITH BMPS IN THE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON (SWMMWW).

4. THE CONTRACTOR SHALL PREVENT ON-SITE EROSION BY STABILIZING ALL SOILS THAT ARE TEMPORARILY EXPOSED AND NOT BEING ACTIVELY WORKED, THROUGH SUCH METHODS AS THE INSTALLATION OF SEEDING, MULCHING, MATTING AND COVERING. THE CONTRACTOR SHALL APPLY ONE OR MORE OF THE FOLLOWING TEMPORARY ESC BMPS: TEMPORARY SEEDING, MULCHING AND MATTING, CLEAR PLASTIC COVERING, AND/OR DUST CONTROL.

5. DENUDED AREAS SHALL BE STABILIZED AND SOIL STOCKPILED AS ESTABLISHED IN THE SWMMWW.

6. STORM DRAIN INLETS SHALL BE PROTECTED USING BMP STORM DRAIN INLET PROTECTION. THE RECOMMENDED INLET PROTECTION ALTERNATIVES ARE TRIANGULAR SILT DIKES, BIOLOGS, GEOTEXTILE FABRIC CATCH BASIN INSERT, DANDY BAGS, AND STRAW WATTLES.

7. NO MORE THAN THREE HUNDRED (300) FEET OF TRENCH MAY REMAIN OPEN AT ONE TIME. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES, UNLESS INCONSISTENT WITH SAFETY OR SITE CONSTRAINTS.

8. WATER FROM A DEWATERING DEVICE SHALL DISCHARGE INTO A SEDIMENT-RETENTION BMP PRIOR TO DISCHARGING TO ANY OTHER CONVEYANCE.

9. THE CONTRACTOR SHALL MAINTAIN AND REPAIR AS NECESSARY ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL BMPS TO ENSURE THEIR CONTINUED PERFORMANCE.

10. TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION.

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE OWNER A MINIMUM OF 24 HOURS PRIOR TO STARTING ANY WORK.

2. THE CONTRACTOR SHALL NOTIFY THE UNDERGROUND UTILITY LOCATE CENTER AT 1-800-424-5555 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

3. THE CONTRACTOR SHALL PROTECT IN PLACE, ALL UTILITIES, STRUCTURES AND FEATURES, WHETHER OR NOT SHOWN ON THESE PLANS. ANY DAMAGE TO EXISTING UTILITIES OR FEATURES SHALL BE REPAIRED OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.

4. LOCATIONS OF EXISTING FEATURES AND UTILITIES AS SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND BASED ON THE BEST AVAILABLE INFORMATION. ACTUAL LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCE OF CONSTRUCTION.

6. ALL WORK SHALL CONFORM TO APPLICABLE CURRENT APPROVED STANDARD PLANS AND WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.

7. THE CONTRACTOR SHALL BE REQUIRED TO KEEP ACCURATE AS-BUILT DRAWINGS AND DELIVER THIS INFORMATION TO THE OWNER FOR PREPARATION OF RECORD DRAWINGS.

8. UTILITY SERVICE INTERRUPTIONS SHALL NOT EXCEED TWO HOURS.

9. 24 HOUR NOTICE SHALL BE PROVIDED TO ALL PROPERTY OWNERS/OCCUPANTS AFFECTED BY ANY UTILITY SERVICE OR ACCESS INTERRUPTIONS.

10. ONE LANE TRAFFIC MUST BE MAINTAINED AT ALL TIMES ON COUNTY ROADS. ROAD CLOSURES WILL NOT BE ALLOWED UNLESS EXPRESSLY AUTHORIZED AND APPROVED BY THE COUNTY.

11. PROPER SIGNAGE AND FLAGGERS ARE REQUIRED PER THE MUTCD. FLAGGERS SHALL HAVE CURRENT CARDS INDICATING THAT THEY ARE QUALIFIED TO PERFORM THE REQUIRED TRAFFIC CONTROL.

12. ACCESS TO PRIVATE PROPERTY SHALL BE RESTORED DAILY.

13. STREETS SHALL BE SWEPT DAILY OR AS NEEDED.

MATERIALS NOTES:

1. PVC PIPE
   - 1.1. PVC PIPE (UNDER 4 INCHES)
     - 1.1.1. MEET THE REQUIREMENTS OF ASTM D1785.
     - 1.1.2. SCHEDULE 80, OR ALTERNATIVE PRESSURE CLASS AS APPROVED BY ENGINEER.
   - 1.2. PVC PIPE (4 INCHES AND OVER)
     - 1.2.1. MEET THE REQUIREMENTS OF AWWA C900.
     - 1.2.2. DR 18 PRESSURE CLASS, OR ALTERNATIVE PRESSURE CLASS AS APPROVED BY ENGINEER.
     - 1.2.3. JOINTS SHALL MEET THE REQUIREMENTS OF ASTM D3139 USING A RESTRAINED RUBBER GASKET CONFORMING TO ASTM F477.
     - 1.2.4. SOLVENT WELDED PIPE JOINTS ARE NOT PERMITTED.
2. HDPE PIPE AND FITTINGS
   - 2.1. GENERAL
     - 2.1.1. PROVISIONS FOR PIPE EXPANSION MUST BE ACCOUNTED FOR WHEN INSTALLING HDPE PIPING.
     - 2.1.2. THE CONTRACTOR MAY PROPOSE HDPE IN PLACE OF PVC SPECIFIED ON PLANS, OR VICE VERSA. CHANGING PIPE MATERIAL MAY REQUIRE INCREASING PIPE SIZE, CONTRACTOR MUST GET APPROVAL FROM THE ENGINEER PRIOR TO CHANGING PIPE MATERIAL.
   - 2.2. HDPE PIPE (UNDER 4 INCHES)
     - 2.2.1. MEET THE REQUIREMENTS OF AWWA C901.
     - 2.2.2. PIPE MATERIALS SHALL BE HIGH-DENSITY POLYETHYLENE PE 4710 CONFORMING TO A MINIMUM CELL CLASS 445574 CC 2 OR 3 IN ACCORDANCE WITH ASTM D3350.
     - 2.2.3. DR 7 PRESSURE CLASS, OR ALTERNATIVE PRESSURE CLASS AS APPROVED BY ENGINEER.
   - 2.3. HDPE PIPE (4 INCHES AND OVER)
     - 2.3.1. MEET THE REQUIREMENTS OF AWWA C906.
     - 2.3.2. PIPE MATERIALS SHALL BE HIGH-DENSITY POLYETHYLENE PE 4710 CONFORMING TO A MINIMUM CELL CLASS 445574 C/E IN ACCORDANCE WITH ASTM D3350.
     - 2.3.3. DR 11 PRESSURE CLASS, OR ALTERNATIVE PRESSURE CLASS AS APPROVED BY ENGINEER.
   - 2.4. HDPE FITTINGS
     - 2.4.1. MEET THE REQUIREMENTS OF AWWA C906.
     - 2.4.2. MATERIAL SHALL BE HIGH-DENSITY POLYETHYLENE PE 4710.
     - 2.4.3. DR 11 PRESSURE CLASS, OR ALTERNATIVE PRESSURE CLASS AS APPROVED BY ENGINEER.
     - 2.4.4. BUTT FUSION FITTINGS SHALL MEET THE REQUIREMENTS OF ASTM D3261.
     - 2.4.5. ELECTROFUSION FITTINGS SHALL MEET THE REQUIREMENTS OF ASTM F1055.
     - 2.4.6. DUCTILE IRON BACKUP RINGS FOR USE WITH HDPE BUTT FUSION FLANGE ADAPTERS SHALL BE CAST FROM DUCTILE IRON MEETING THE REQUIREMENTS OF ASTM A536 AND SHALL MEET THE REQUIREMENTS OF AWWA C207 AND ANSI B16.5.
3. DUCTILE IRON PIPE AND FITTINGS
   - 3.1. DUCTILE IRON PIPE
     - 3.1.1. MEET THE REQUIREMENTS OF AWWA C151.
     - 3.1.2. CEMENT MORTAR LINING AND A 1-MIL THICK SEAL COAT MEETING THE REQUIREMENTS OF AWWA C104.
     - 3.1.3. DUCTILE IRON PIPE TO BE JOINED USING BOLTED FLANGED JOINTS SHALL BE SPECIAL THICKNESS CLASS 53, OR ALTERNATIVE PRESSURE CLASS AS APPROVED BY ENGINEER. ALL OTHER DUCTILE IRON PIPE SHALL BE SPECIAL THICKNESS CLASS 52, OR ALTERNATIVE PRESSURE CLASS AS APPROVED BY ENGINEER.
   - 3.2. DUCTILE IRON FITTINGS
     - 3.2.1. FITTINGS SHALL MEET THE REQUIREMENTS OF AWWA C153.
     - 3.2.2. JOINTS SHALL MEET THE REQUIREMENTS OF AWWA C111.
     - 3.2.3. FITTINGS SHALL BE CEMENT MORTAR LINED, MEETING THE REQUIREMENTS OF AWWA C104.
     - 3.2.4. GASKETS FOR FLAT FACED OR RAISED FACED FLANGES SHALL BE 1/8-INCH-THICK NEOPRENE HAVING A DUROMETER OF 60 PLUS OR MINUS 5 OR 1/16 CLOTH INSERTED.
     - 3.2.5. THE TYPE, MATERIAL, AND IDENTIFICATION MARK FOR BOLTS AND NUTS SHALL BE PROVIDED.
     - 3.2.6. BOLTS, NUTS, AND WASHERS USED FOR SECURING FITTINGS SHALL BE OF SIMILAR MATERIALS. STEEL BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A307 OR ASTM F568 FOR CARBON STEEL OR ASTM F593 OR ASTM F738 FOR STAINLESS STEEL. NUTS SHALL MEET THE REQUIREMENTS OF ASTM A563 FOR CARBON STEEL OR ASTM F594 OR ASTM F836 FOR STAINLESS STEEL. IRON BOLTS AND NUTS SHALL MEET THE REQUIREMENTS OF ASTM A536, GRADE 65-45-12.
4. WATER MAIN VALVES AND VALVE BOXES
   - 4.1. GATE VALVES (3- TO 12-INCHES)
     - 4.1.1. VALVES SHALL BE MUELLER A-2361 OR EQUAL APPROVED BY THE ENGINEER.
     - 4.1.2. VALVE DESIGN, MATERIALS AND WORKMANSHIP SHALL CONFORM TO OR EXCEED THE REQUIREMENTS OF AWWA C509 OR AWWA C515.
     - 4.1.3. VALVES SHALL BE DUCTILE IRON AND HAVE ANSI FLANGES OR MECHANICAL JOINT ENDS (EXCEPT WHERE HDPE FITTINGS ARE SPECIFIED ON THE PLANS).
     - 4.1.4. VALVES SHALL BE RESILIENT SEAT NON-RISING STEM (NRS) WITH TWO INTERNAL O-RING STEM SEALS.
   - 4.2. VALVE BOXES
     - 4.2.1. VALVE BOXES SHALL BE INSTALLED ON BURIED VALVES. THE BOX SHALL BE OF CAST IRON, TWO-PIECE SCREW TYPE, 5-1/4 INCH SHAFT, WITH A BASE CORRESPONDING TO THE SIZE OF THE VALVE.
     - 4.2.2. VALVE BOX SHALL BE TYLER UNION PIPE 6855 SERIES OR EQUAL APPROVED BY THE ENGINEER.
     - 4.2.3. THE COVER SHALL BE A TYLER UNION PIPE STANDARD DROP LID 145325 OR EQUAL APPROVED BY THE ENGINEER. THE COVER SHALL HAVE THE WORD "WATER" CAST IN IT.
   - 4.3. VALVE MARKER POST
     - 4.3.1. VALVE MARKER POSTS SHALL BE 4-INCH BY 4-INCH REINFORCED CONCRETE OR SCHEDULE 40 STEEL POSTS 5 FEET LONG, WITH 2 FOOT MINIMUM BURY, STAMPED WITH "W" AND DISTANCE TO VALVE. POST SHALL BE PAINTED WITH 1 BASE COAT AND 2 COATS BLUE OIL BASE ENAMEL.
   - 4.4. COMBINATION AIR AND VACUUM RELEASE VALVES
     - 4.4.1. VALVES SHALL BE CRISPIN VALVE UL SERIES, VAL-MATIC MODEL 201C.2 - 204C.15, OR EQUAL APPROVED BY THE ENGINEER.
     - 4.4.2. COMBINATION AIR AND VACUUM RELEASE VALVES SHALL BE A SINGLE VALVE BODY DESIGN ABLE TO WITHSTAND 300-PSI AND SHALL CONFORM TO OR EXCEED THE REQUIREMENTS OF AWWA C512.
     - 4.4.3. THE BODY AND COVER SHALL BE CAST IRON CONFORMING TO ASTM A48, CLASS 30.
     - 4.4.4. FLOATS SHALL BE STAINLESS STEEL CONFORMING TO ASTM A240 AND DESIGNED TO WITHSTAND 1,000-PSI.
     - 4.4.5. VALVE SEATS SHALL BE BUNA-N RUBBER AND INTERNAL PARTS SHALL BE STAINLESS STEEL OR BRONZE.

TOPOGRAPHIC SURVEY NOTES:

1. HORIZONTAL DATUM IS BASED ON NAD 83/11.

2. VERTICAL DATUM BASED ON NAVD 88.

3. THE PURPOSE OF THIS TOPOGRAPHIC SURVEY IS FOR A WATER SYSTEM DESIGN.

4. CONTOURS DERIVED FROM DIRECT FIELD OBSERVATIONS.

5. BOUNDARY INFORMATION SHOWN HEREON IS BASED ON STATUTORY WARRANTY DEEDS RECORDED UNDER AUDITOR FILE NUMBERS 4171652, 4467413, 4006085 & 4404557.

6. UTILITY INFORMATION SHOWN HEREON IS BASED ON FIELD MEASUREMENTS AND SURFACE MARKINGS. CALL 1-800-424-555 TO HAVE UTILITIES MARKED BEFORE GROUND DISTURBING ACTIVITIES. THE LOCATION OF THE UNDERGROUND WATERLINE WAS NOT MARKED ON THE GROUND PRIOR TO THIS SURVEY AND IS NOT SHOWN HEREON.

7. THIS SURVEY DOES NOT PURPORT TO SHOW ALL EASEMENTS OF RECORD, OR OTHERWISE.

PROJECT LEGEND:

- ASPHALT CUT AND REPAIR
- BLIND FL W/ TAP
- BO — BLOWOFF ASSEMBLY
- BOLLARD
- CHECK DAM
- AIR — COMBINATION AIR AND VACUUM RELEASE VALVE ASSEMBLY
- CPL — COUPLER
- DEMOLITION
- DRN — DRAIN PIPE
- EROSION CONTROL BARRIER
- EC — EROSION CONTROL AT CULVERT END
- X — X — FENCE
- FH — FIRE HYDRANT
- WV — GATE VALVE
- GRASS LINED CHANNEL
- GRAVEL
- HVF — HIGH VISIBILITY FENCING
- WNIC — NEW WATER LINE (BY OTHERS)
- W — W — NEW WATER SERVICE PIPE
- X — PERIMETER PROTECTION
- PRV — PRESSURE REDUCING VALVE ASSEMBLY
- REDUCER
- SOIL AMENDMENT
- SPOOL
- STABILIZED CONSTRUCTION ENTRANCE
- STOCKPILE LOCATION
- SIP — STORM DRAIN INLET PROTECTION
- THRUST BLOCKING
- TREE PROTECTION FENCING
- TREE REMOVAL
- TYPICAL FITTING/BEND (FL)
- TYPICAL FITTING/BEND (FUSED)
- TYPICAL FITTING/BEND (MJ)
- W — WATER MAIN
- W — WATER MAIN CAP
- W — WATER MAIN W/ CASING PIPE
- WM — WATER METER
- W — WELL
- WTL — WETLAND BOUNDARY

ABBREVIATIONS:

AC	=	ASBESTOS CONCRETE
ANSI	=	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	=	APPROXIMATE
APWA	=	AMERICAN PUBLIC WORKS ASSOCIATION
ASTM	=	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWWA	=	AMERICAN WATER WORKS ASSOCIATION
BLDG	=	BUILDING
BO	=	BLOWOFF
BMP/BMPS	=	BEST MANAGEMENT PRACTICE(S)
CI	=	CAST IRON
CL & C/L	=	CENTERLINE
CONC	=	CONCRETE
CULV	=	CULVERT
CY & CU. YD.	=	CUBIC YARD
DCVA	=	DOUBLE CHECK VALVE ASSEMBLY
DI	=	DUCTILE IRON
DIAM	=	DIAMETER
DOE	=	DEPARTMENT OF ECOLOGY
DR	=	DIMENSION RATIO
DWY	=	DRIVEWAY
EA	=	EACH
EG	=	EXISTING GRADE
EP	=	EDGE OF PAVEMENT
ESC	=	EROSION AND SEDIMENTATION CONTROL
EX	=	EXISTING
FL	=	FLANGE
GA	=	GAUGE
GAL	=	GALLON
GPH	=	GALLONS PER HOUR
GPM	=	GALLONS PER MINUTE
GW	=	GROUND WATER
H	=	HORIZONTAL
HDD	=	HORIZONTAL DIRECTIONAL DRILL
HDPE	=	HIGH DENSITY POLYETHYLENE
IE	=	INVERT ELEVATION
L	=	LITER
=	=	LINEAL FEET
LT	=	LEFT
MAX	=	MAXIMUM
MB	=	MAILBOX
MG	=	MILLIGRAM
MH	=	MANHOLE
MIN	=	MINIMUM
MON	=	MONUMENT
MJ	=	MECHANICAL JOINT
MUTCD	=	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
N/C	=	NORMALLY CLOSED
N/O	=	NORMALLY OPEN
NIC	=	NOT IN CONTRACT
NO.	=	NUMBER
NPT	=	NATIONAL PIPE THREAD
NRS	=	NON-RISING STEM
NSF	=	NATIONAL SANITATION FOUNDATION
NTS	=	NOT TO SCALE
OHWM	=	ORDINARY HIGH WATER MARK
P	=	PHONE
P.O.	=	POST OFFICE
PE	=	POLYETHYLENE
PL	=	PLAIN END
PPM	=	PARTS PER MILLION
PRV	=	PRESSURE REDUCING VALVE
PSI	=	POUNDS PER SQUARE INCH
PT	=	POINT OF TANGENCY
PVC	=	POLYVINYL CHLORIDE
R	=	RADIUS
RPBA	=	REDUCED PRESSURE BACKFLOW ASSEMBLY
RT	=	RIGHT
SCH	=	SCHEDULE
SF	=	SQUARE FEET
STA	=	STATION
SWMMWW	=	STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON
TP	=	TELEPHONE POLE
TYP	=	TYPICAL
UP	=	UTILITY POLE
W/	=	WITH
WSDOT	=	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

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(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

NO.	DATE	BY	REVISION

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JEFFREY M TASOFF — STATE OF WASHINGTON — 41424 — REGISTERED PROFESSIONAL ENGINEER
Digitally signed by Jeffrey M Tasoff
Date: 2025.06.02 11:15:10 -07'00'

SOUTH WHIDBEY PARKS
WATER SYSTEM IMPROVEMENTS
5491 MAXWELTON RD, LANGLEY, WA 98260
PROJECT NUMBER: 2401.0397.00

CONTRACT DOCUMENTS

NOTES LEGENDS & ABBREVIATIONS

DATE: 06/02/2025

PLAN NUMBER:
CW02
SHEET 2 OF 19

FILE LOCATION: Z:\SHARED\PROJECTS\ACTIVE\2024\01.0397.00 - SWPR WATER SYSTEM\DRAWINGS\CAD-REV\TACTIVE\SWPR WATER SYSTEM.DWG - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (36.00 X 24.00 INCHES) - LAST MODIFIED BY: SCOTT STALLMAN
PRINCIPAL: JT | PROJECT MANAGER: JT | DESIGNED BY: MS | DRAWN BY: NMD, RB | CHECKED BY: JT

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WASHINGTON
21625
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PROFESSIONAL ENGINEER
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SOUTH WHIDBEY PARKS

WATER SYSTEM IMPROVEMENTS
5491 MAXWELTON RD., LANGLEY, WA 98260
PROJECT NUMBER: 2401.0397.00

CONTRACT DOCUMENTS

PLAN SET INDEX

DATE: 06/02/2025
PLAN NUMBER: CW03
SHEET 3 OF 19

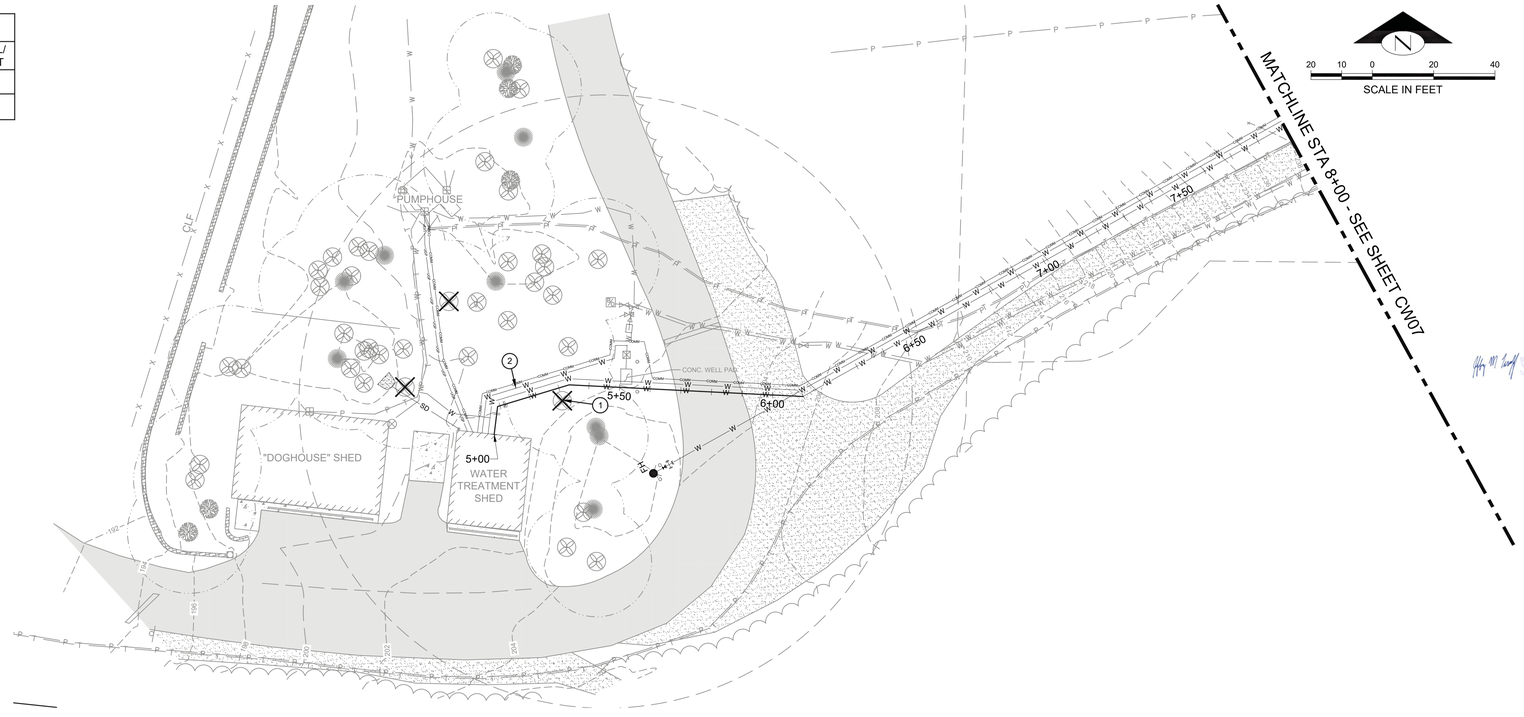
FILE LOCATION: Z:\SHARED\PROJECTS\ACTIVE\2024\01\2401.0397.00 - SWPR WATER SYSTEM\DRAWINGS\CAD\ETA\CTIVE\FILES\WPR WATER SYSTEM.DWG - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (36.00 X 24.00 INCHES) - LAST MODIFIED BY: SCOTT STALLMAN
PRINCIPAL: JT PROJECT MANAGER: JT DESIGNED BY: MS DRAWN BY: NMD, RB CHECKED BY: JT

KEY NOTES:		
KEY	NOTE:	DETAIL/ SHEET
1	REMOVE TREE (TYP)	-
2	SEE WATER MAIN PLAN & PROFILE FOR UTILITY IMPROVEMENTS (TYP)	-

GENERAL NOTES:

1. ALL TREES SHALL BE PROTECTED IN PLACE EXCEPT AS NOTED IN THESE PLANS.

2. ALL EXISTING UTILITIES AND OTHER IMPROVEMENTS SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.



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JEFFREY M TASDEN — STATE OF WASHINGTON — 47624 — REGISTERED PROFESSIONAL ENGINEER
Digitally signed by Jeffrey Tasden
Date: 2025.06.02 11:15:48 -07'00'

SOUTH WHIDBEY PARKS
WATER SYSTEM IMPROVEMENTS
5491 MAXWELTON RD, LANGLEY, WA 98260
PROJECT NUMBER: 2401.0397.00

CONTRACT DOCUMENTS

CLEARING & GRADING PLAN STA 5+00 TO 8+00

DATE: 06/02/2025

PLAN NUMBER:
CW04
SHEET 4 OF 19

KEY NOTES:		
KEY	NOTE:	DETAIL/ SHEET
1	REMOVE TREE (TYP)	-
2	SEE WATER MAIN PLAN & PROFILE FOR UTILITY IMPROVEMENTS (TYP)	-

GENERAL NOTES:

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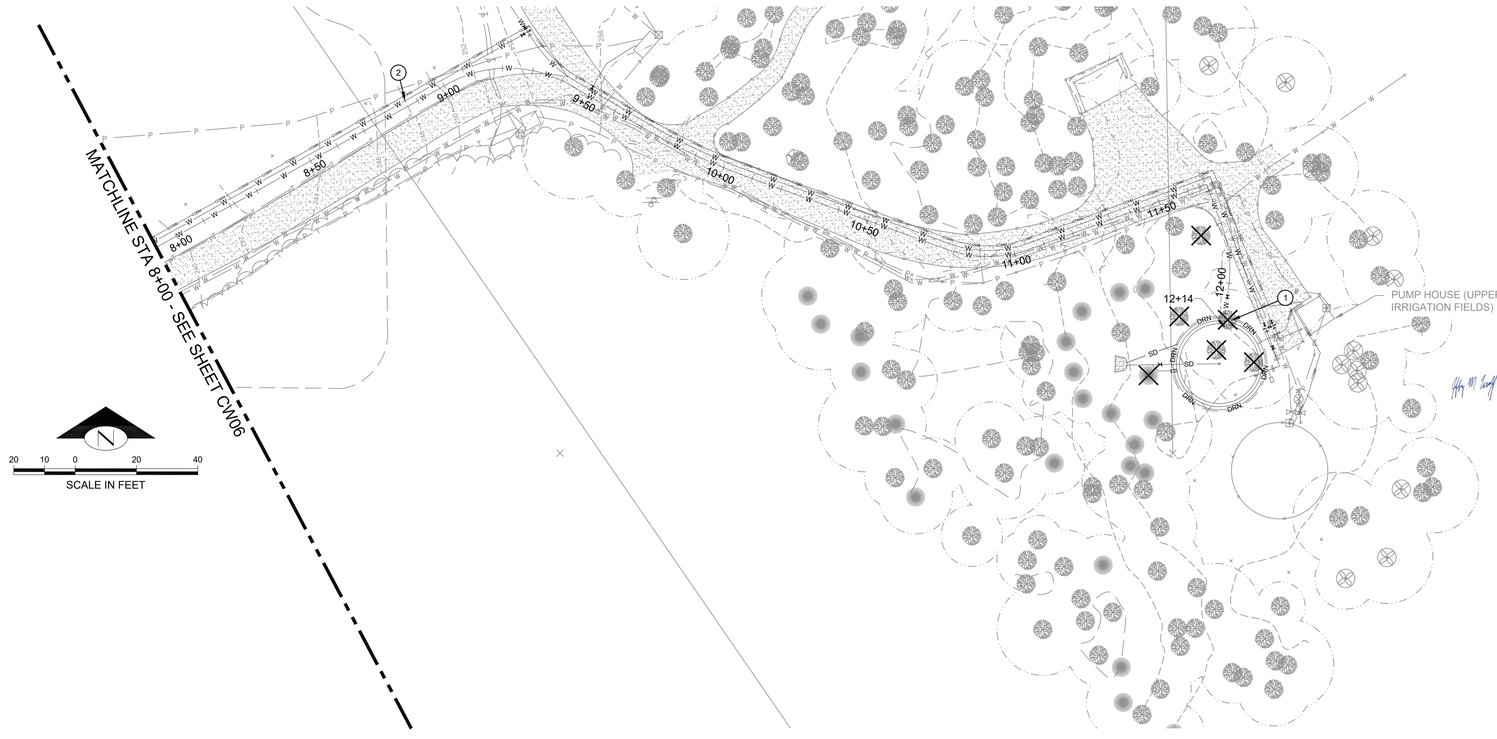

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JEFFREY M TASOFF
STATE OF WASHINGTON
21423
REGISTERED
PROFESSIONAL ENGINEER

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SOUTH WHIDBEY PARKS
WATER SYSTEM IMPROVEMENTS
5491 MAXWELTON RD, LANGLEY, WA 98260
PROJECT NUMBER: 2401.0397.00

CONTRACT DOCUMENTS

CLEARING & GRADING PLAN STA 8+00 TO 23+30

DATE: 06/02/2025

PLAN NUMBER:
CW05
SHEET 5 OF 19

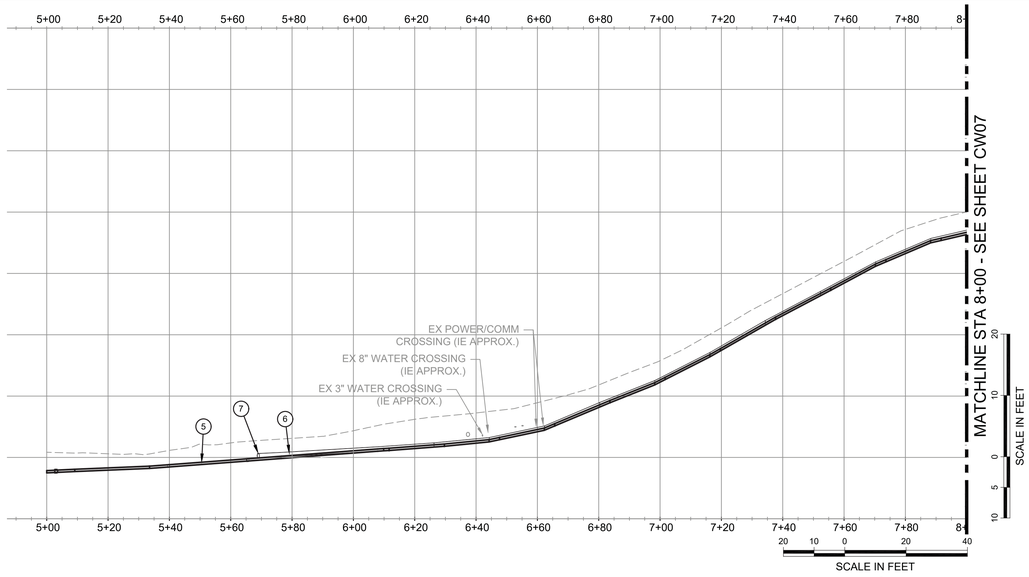
FILE LOCATION: Z:\SHARED\PROJECTS\ACTIVE\2024\2401.0397.00 - SWPR WATER SYSTEM\DRAWINGS\CAD-REVIT\ACTIVE\LES\PPR WATER SYSTEM.DWG - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (36.00 X 24.00 INCHES) - LAST MODIFIED BY: SCOTT STALLMAN
PRINCIPAL: JT PROJECT MANAGER: JT DESIGNED BY: MS DRAWN BY: NMD, RB CHECKED BY: JT

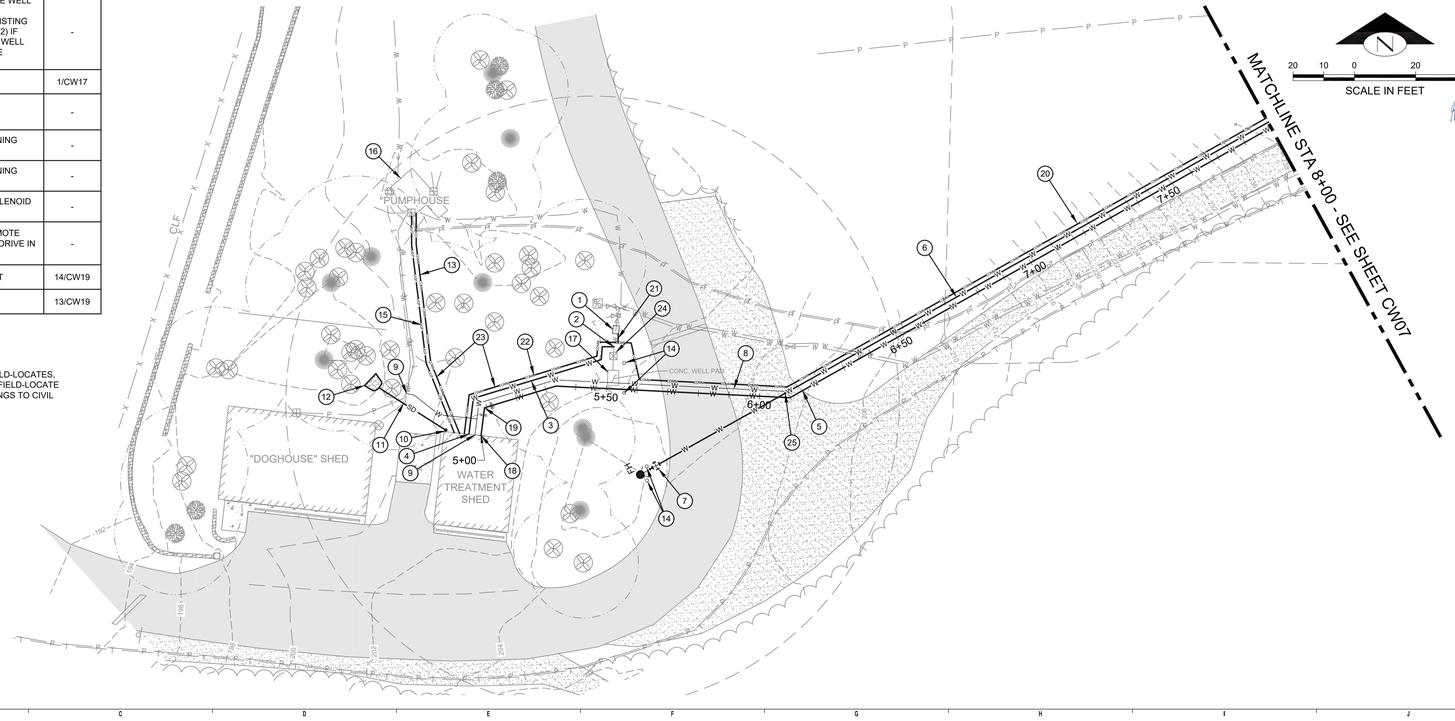
KEY NOTES:

KEY	NOTE:	DETAIL/ SHEET
1	PRESSURE SUSTAINING SOLENOID VALVE VAULT, SEE SPECIFICATIONS FOR WATER SYSTEM CONTROLS REQUIREMENTS	11/CW18
2	CONNECT TO EX PIPE WITH FITTINGS AND ADAPTERS AS NECESSARY.	-
3	64 LF 4" DI WATER MAIN. PROVIDE RJ BENDS AND FITTINGS AS NEEDED TO COMPLETE THE ALIGNMENT.	1/CW17
4	SEE TREATMENT SYSTEM PLANS FOR CONTINUATION	-
5	290 LF 4" HDPE RESERVOIR FILL MAIN (THIS SHEET)	1/CW17
6	227 LF 8" HDPE DISTRIBUTION MAIN (THIS SHEET)	1/CW17
7	8" CROSS (FL) FUSED HDPE FL ADAPTER FLANGE CAP (2) HYDRANT ASSEMBLY	2/CW17 & 9/CW18
8	112 LF 2" HDPE WATER SERVICE	1/CW17
9	PROVIDE SERVICE CONNECTION TO EXISTING BUILDINGS. PROVIDE TEES, CONNECTORS, AND ADAPTERS AS NEEDED.	-
10	PROVIDE AIR GAP ON BACKWASH LINE BEFORE DRAIN PIPE	C/CW15
11	4" PVC ASTM D3034; MAINTAIN MIN 2% SLOPE	1/CW17
12	ROCK OUTFALL PAD AT BACKWASH INFILTRATION AREA IN EXISTING DEPRESSION	10/CW18
13	PRESSURE SIGNAL (CONTROL WIRES) TO WELL PUMP VARIABLE SPEED DRIVE	-
14	FIXED BOLLARDS, WSDOT TYPE 2, PER WSDOT STD PLAN H-60-20-01	-
15	PROVIDE 50 AMP POWER SUPPLY TO TREATMENT BUILDING. SEE ELECTRICAL PLANS FOR MORE INFORMATION	-
16	INSTALL SOURCE METER REMOTE DISPLAY AND NEW VARIABLE FREQUENCY DRIVE (VFD) FOR WELL PUMP CONTROL IN PUMPHOUSE. SET VFD FOR WELL PUMP TO MAINTAIN 50 PSI AS MEASURED BY PRESSURE TRANSMITTER IN PRESSURE SUSTAINING SOLENOID VALVE VAULT. PROVIDE BUILDING IMPROVEMENTS TO SECURE AND STABILIZE THIS BUILDING. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION. CUT AND CAP PIPE CONNECTION IN PUMPHOUSE BETWEEN POTABLE WATER AND IRRIGATION SYSTEM	-
17	REHABILITATE WELL AND REPLACE EXISTING SUBMERSIBLE WELL PUMP. REPLACE RISER PIPE, CHECK VALVES, TORQUE ARRESTORS, AND OTHER APPURTENANCES TO MATCH EXISTING WELL INSTALLATION. INSTALL (1) PE SOUNDING TUBE, OR (2) IF SPACE PERMITS. PROVIDE A COMPLETE AND FUNCTIONAL WELL ASSEMBLY. PROVIDE 3 PHASE POWER TO WELL PUMP. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS	-
18	8 LF 4" DUCTILE IRON WATER MAIN	1/CW17
19	(1) 4" DI 45° BEND (FL) (1) 4" FL ADAPTER (1) 4" HDPE BUTT FUSION FL ADAPTER W/ DI BACKUP RING	-
20	RESERVOIR LEVEL CONTROL WIRE TO PRESSURE SUSTAINING SOLENOID VALVE AND FLOW CONTROL SOLENOID VALVE	-
21	RESERVOIR LEVEL CONTROL WIRE TO PRESSURE SUSTAINING SOLENOID VALVE	-
22	RESERVOIR LEVEL CONTROL WIRE TO FLOW CONTROL SOLENOID VALVE	-
23	PROVIDE CONTROL WIRING FROM SOURCE METER TO REMOTE DIGITAL DISPLAY AND WELL PUMP VARIABLE FREQUENCY DRIVE IN PUMPHOUSE FOR FLOW RATE LIMITING FUNCTION	-
24	DEMO AND REPLACE EXISTING SOURCE METER AND VAULT	14/CW19
25	2" TAP FOR TREATMENT BUILDING SUPPLY	13/CW19

GENERAL NOTE:

1. EXISTING WATER LINES ARE SHOWN SCHEMATICALLY BASED ON FIELD-LOCATES, SURFACE MARKINGS, AND AS-BUILT DRAWINGS. CONTRACTOR SHALL FIELD-LOCATE EXISTING WATER LINES PRIOR TO CONSTRUCTION AND REPORT FINDINGS TO CIVIL ENGINEER.





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41424
REGISTERED
PROFESSIONAL ENGINEER

Digitally signed by Jeffrey M Tapsoff
Date: 2025.06.02 11:16:23 -07'00'

SOUTH WHIDBEY PARKS
WATER SYSTEM IMPROVEMENTS
5491 MAXWELTON RD, LANGLEY, WA 98260
PROJECT NUMBER: 2401.0397.00

CONTRACT DOCUMENTS

WATER MAIN PLAN & PROFILE STA 5+00 TO 8+00

DATE: 06/02/2025

PLAN NUMBER:
CW06
SHEET 6 OF 19

FILE LOCATION: Z:\SHARED\PROJECTS\ACTIVE\2024\01\2401.0397.00 - SWPR WATER SYSTEM\DRAWINGS\CAD-REVIT\CAD\TIFFLE\SWPR WATER SYSTEM.DWG - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (36.00 X 24.00 INCHES) - LAST MODIFIED BY: SCOTT STALLMAN
PRINCIPAL: JT PROJECT MANAGER: JT DESIGNED BY: MS DRAWN BY: NMD, RB CHECKED BY: JT

KEY NOTES:

KEY	NOTE:	DETAIL/ SHEET
1	421 LF 4" HDPE RESERVOIR FILL MAIN (THIS SHEET)	1/CW17
2	(1) 4" DI 90° BEND (FL) (2) 4" HDPE BUTT FUSION FL ADAPTER W/ DI BACKUP RING	-
3	4" GATE VALVE	4/CW17
4	PROPOSED POTABLE RESERVOIR, 26'Ø x 25'H 99,000 GALLON REINFORCED CONCRETE RESERVOIR. INSTALL LEVEL TRANSMITTER IN RESERVOIR FOR RESERVOIR SET POINT CONTROLS.	CW16
5	INSTALL SAMPLING STATION ON RESERVOIR OUTLET.	6/CW18
6	(1) 12" DI 90° BEND (FL) (2) 12" FL ADAPTER	-
7	12" GATE VALVE	4/CW17
8	300 LF 12" HDPE DISTRIBUTION MAIN (THIS SHEET)	1/CW17
9	(1) 12" DI 90° BEND (FL) (2) 12" HDPE BUTT FUSION FL ADAPTER W/ DI BACKUP RING	2/CW17
10	138 LF 8" HDPE DISTRIBUTION MAIN (THIS SHEET)	1/CW17
11	1.5" TAP FOR MAINTENANCE BUILDING SUPPLY	12/CW19
12	20 LF 1.5" HDPE WATER SERVICE. PROVIDE ADAPTERS, COUPLERS, AND FITTINGS AS NEEDED TO CONNECT TO EXISTING BOOSTER PUMP.	1/CW17
13	94 LF PERFORATED FOOTING DRAIN. DISCHARGE AT ROCK PAD.	5/CW17
14	4" PVC ASTM D3034; MAINTAIN MIN 2% SLOPE	1/CW17
15	ROCK OUTFALL PAD	10/CW18
16	4" OVERFLOW LINE WITH AIR GAP. CONNECT TO STORM DRAIN.	-
17	PROVIDE NORMALLY CLOSED INTERTIE BETWEEN RESERVOIRS (1) 8"X8"X8" TEE (1) 12" X 12" X 8" TEE (2) 8" GATE VALVE (1) 12" GATE VALVE COUPLERS, FITTINGS, AND ADAPTERS AS NEEDED	2/CW17 & 4/CW17
18	(1) 12"X12"X8" TEE (1) 8" GV (FL) (1) 12" GV (FL) COUPLERS, FITTINGS, AND ADAPTERS AS NEEDED	2/CW17 & 4/CW17
19	REMOVE EXISTING IRRIGATION RESERVOIR FLOATS AND REPLACE WITH NEW LEVEL TRANSMITTER. SEE RESERVOIR DETAILS FOR RESERVOIR SETTINGS.	CW16
20	19 LF 4" DI PIPE MAINTAIN MIN. 2% SLOPE	1/CW17
21	8 LF 12" DI DISTRIBUTION MAIN	1/CW17
22	6 LF 12" DI DISTRIBUTION MAIN	1/CW17
23	5 LF 12" DI DISTRIBUTION MAIN	1/CW17
24	10 LF 4" DI RESERVOIR FILL MAIN	1/CW17
25	INSTALL RESERVOIR SET POINT CONTROL PANEL IN EXISTING PUMPHOUSE, SEE SPECIFICATIONS FOR WATER SYSTEM CONTROLS REQUIREMENTS. PROVIDE JUNCTION BOX WITH SIGNAL WIRE FROM BOTH RESERVOIR LEVEL TRANSMITTERS, ROUTE SIGNAL WIRE AND POWER (IF REQUIRED) IN ELECTRICAL CONDUIT TO PRESSURE SUSTAINING SOLENOID VALVE VAULT AND FLOW CONTROL SOLENOID VALVE IN TREATMENT BUILDING (SEE SHEET CW06)	CW06
26	RESERVOIR LEVEL CONTROL WIRE TO PRESSURE SUSTAINING SOLENOID VALVE AND FLOW CONTROL SOLENOID VALVE	-
27	POTABLE RESERVOIR LEVEL SIGNAL (CONTROL WIRES) FROM LEVEL TRANSMITTER, ROUTE TO RESERVOIR SET POINT CONTROL PANEL IN EXISTING PUMPHOUSE.	-
28	IRRIGATION RESERVOIR LEVEL SIGNAL (CONTROL WIRES) FROM LEVEL TRANSMITTER, ROUTE TO RESERVOIR SET POINT CONTROL PANEL IN EXISTING PUMPHOUSE	-
29	CUT, CAP AND ABANDON EXISTING BOOSTER PUMP CONNECTION.	-

GENERAL NOTE:

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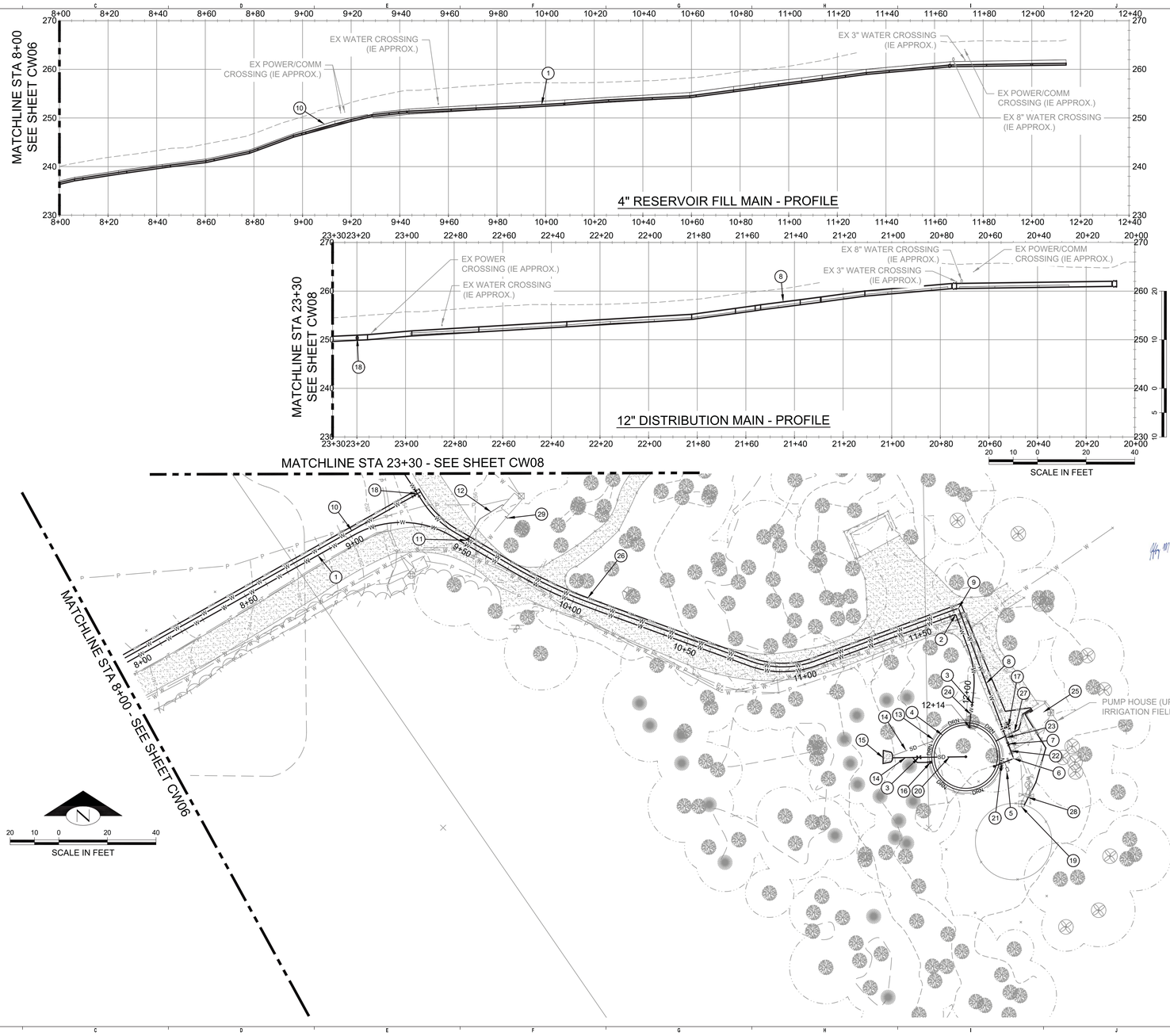

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JEFFREY M TASOFF
STATE OF WASHINGTON
21429
REGISTERED
PROFESSIONAL ENGINEER

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Date: 2025.06.02 11:16:40 -07'00'

SOUTH WHIDBEY PARKS

WATER SYSTEM IMPROVEMENTS
5491 MAXWELTON RD, LANGLEY, WA 98260
PROJECT NUMBER: 2401.0397.00

CONTRACT DOCUMENTS

WATER MAIN PLAN & PROFILE STA 8+00 TO 23+30

DATE: 06/02/2025

PLAN NUMBER:
CW07
SHEET 7 OF 19

FILE LOCATION: Z:\SHARED\PROJECTS\ACTIVE\2024\2401.0397.00 - SWPR WATER SYSTEM\DRAWINGS\CAD-REVIT\ACTIVEFILES\WPS WATER SYSTEM.DWG - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (36.00 X 24.00 INCHES) - LAST MODIFIED BY: SCOTT STALLMAN
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MATCHLINE STA 28+90 - SEE SHEET CW09

MATCHLINE STA 28+90 - SEE SHEET CW09

EX SD CROSSING (IE APPROX.)

EX POWER/COMM CROSSING (IE APPROX.)

KEY NOTES:

KEY	NOTE:	DETAIL/ SHEET
1	560 LF 12" HDPE DISTRIBUTION MAIN (THIS SHEET)	1/CW17

SCALE IN FEET

MATCHLINE STA 23+30 - SEE SHEET CW07

MATCHLINE STA 23+30 - SEE SHEET CW07

SCALE IN FEET

LOCATION

CONTRACT DOCUMENTS

SOUTH WHIDBEY PARKS

WATER SYSTEM IMPROVEMENTS

5491 MAXWELTON RD, LANGLEY, WA 98260

PROJECT NUMBER: 2401.0397.00

WATER MAIN PLAN & PROFILE STA 23+30 TO 28+90

DATE: 06/02/2025

PLAN NUMBER: CW08

SHEET 8 OF 19

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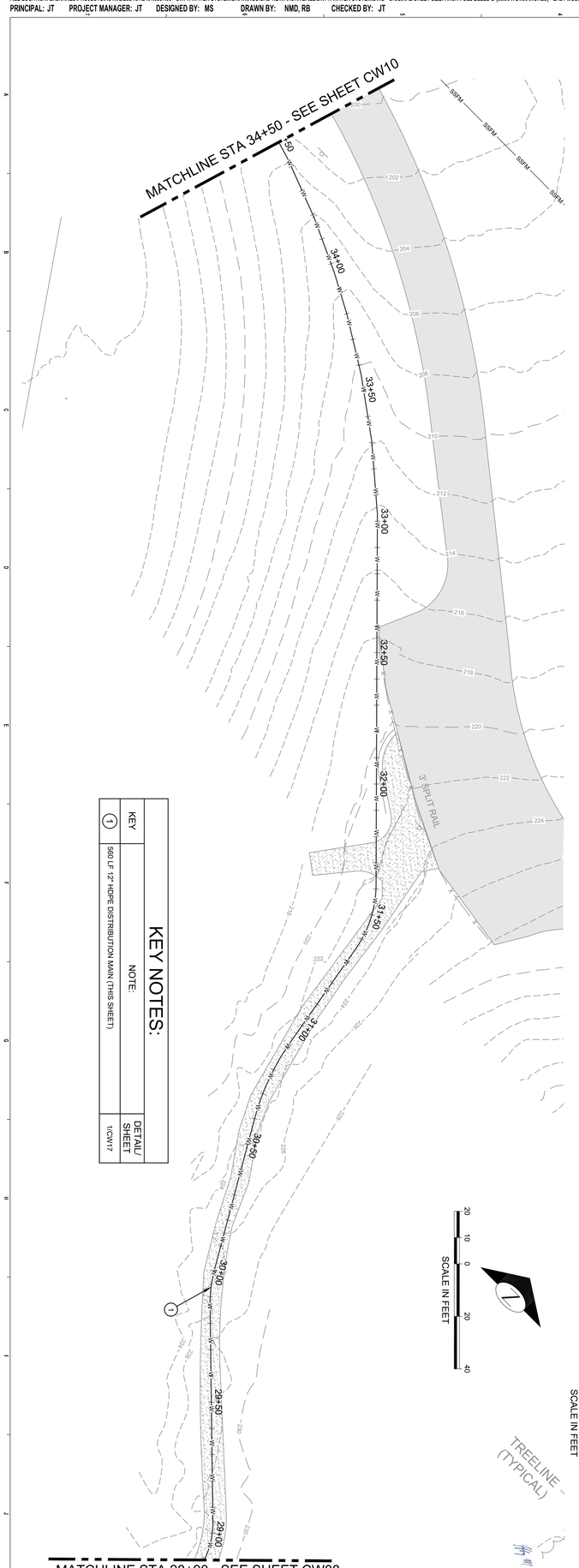
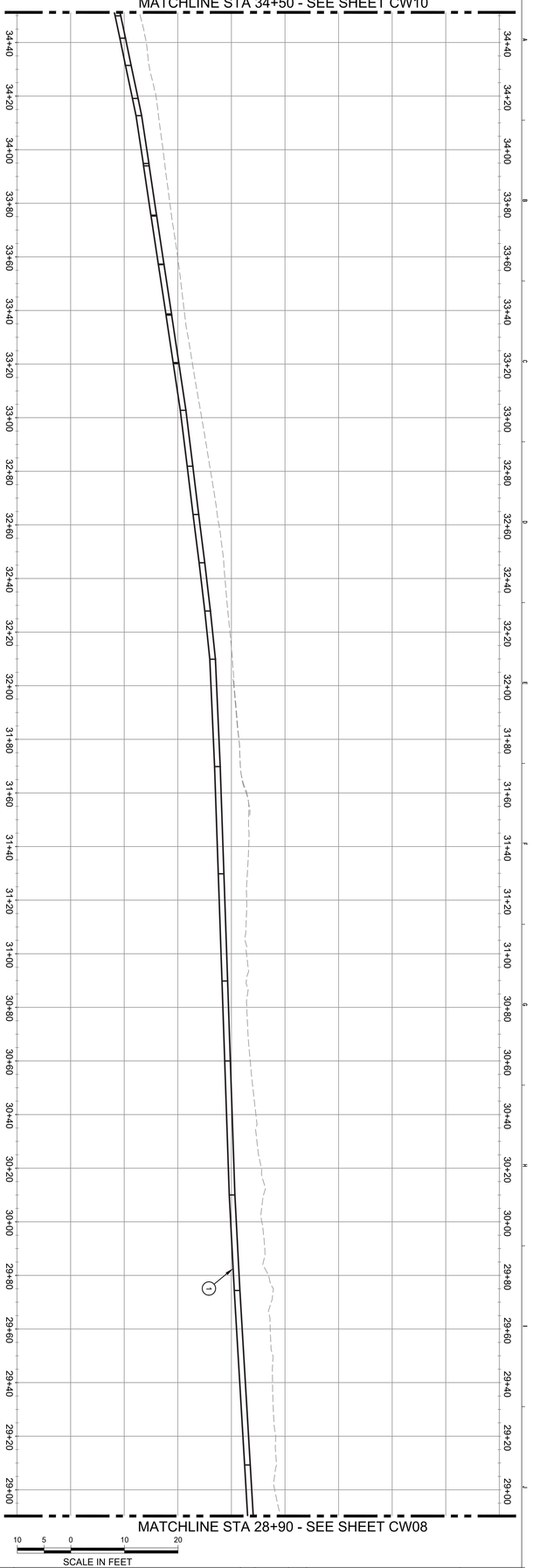
FILE LOCATION: Z:\SHARED\PROJECTS\ACTIVE\2024\01\2401.0397.00 - SWPR WATER SYSTEM\DRAWINGS\CAD-REVIT\ACTIVEFILES\SWPR WATER SYSTEM.DWG - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (36.00 X 24.00 INCHES) - LAST MODIFIED BY: SCOTT STALLMAN

PRINCIPAL: JT PROJECT MANAGER: JT DESIGNED BY: MS DRAWN BY: NMD, RB CHECKED BY: JT





KEY NOTES:

KEY	NOTE:	DETAIL/ SHEET
1	560 LF 12" HDPE DISTRIBUTION MAIN (THIS SHEET)	1/CW17

CONTRACT DOCUMENTS

SOUTH WHIDBEY PARKS

WATER SYSTEM IMPROVEMENTS

5491 MAXWELTON RD, LANGLEY, WA 98260

PROJECT NUMBER: 2401.0397.00

WATER MAIN PLAN & PROFILE STA 28+90 TO 34+50

DATE: 06/02/2025

PLAN NUMBER: **CW09**

SHEET 9 OF 19

JEFFREY M TAYLOR — STATE OF WASHINGTON — PROFESSIONAL ENGINEER

Professional Engineer's Stamp
Date: 2025.06.02
11171 JEFFREY M TAYLOR

FACET

P.O. Box 1132
Freeland, WA 98249

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www.facetnw.com

FEDERAL WAY | KIRKLAND | MOUNT VERNON | SEATTLE | SPOKANE | WHIDBEY ISLAND

NO.	DATE	BY	REVISION

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FILE LOCATION: Z:\SHARED\PROJECTS\ACTIVE\2024\01\2401.0397.00 - SWPR WATER SYSTEM\DRAWINGS\CAD-REVIT\ACTIVEFILES\SWPR WATER SYSTEM.DWG - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (36.00 X 24.00 INCHES) - LAST MODIFIED BY: SCOTT STALLMAN

PRINCIPAL: JT PROJECT MANAGER: JT DESIGNED BY: MS DRAWN BY: NMD, RB CHECKED BY: JT

KEY NOTES:

KEY	NOTE:	DETAIL/ SHEET
1	558 LF 12" HDPE DISTRIBUTION MAIN (THIS SHEET)	1/CW17
2	(1) BLOW-OFF ASSEMBLY. INSTALL AT LOW POINT OF WATER MAIN	7/CW18
3	APPROXIMATE POINT OF CONNECTION TO AQUATIC CENTER WATER SYSTEM. SEE AQUATIC CENTER PLANS FOR CONTINUATION.	-
4	12" GATE VALVE	4/CW17
5	SAWCUT EXISTING ASPHALT PAVEMENT TO A NEAT VERTICAL EDGE. REMOVE AND RESTORE ASPHALT PAVEMENT OVER UTILITY TRENCH.	1/CW17
6	CONTRACTOR SHALL PROTECT EXISTING ASPHALT PAVEMENT IN PLACE.	-

CONTRACT DOCUMENTS

SOUTH WHIDBEY PARKS

WATER SYSTEM IMPROVEMENTS

5491 MAXWELTON RD, LANGLEY, WA 98260

PROJECT NUMBER: 2401.0397.00

WATER MAIN PLAN & PROFILE STA 34+50 TO 40+08

DATE: 06/02/2025

PLAN NUMBER: CW10

SHEET 10 OF 19

PROFESSIONAL ENGINEER — JEFFREY M TASSPE — STATE OF WASHINGTON

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NO.	DATE	BY	REVISION

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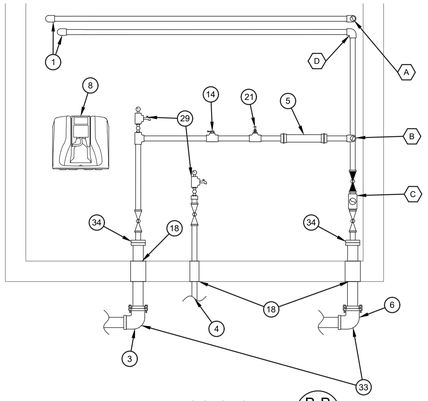
KEY NOTES:

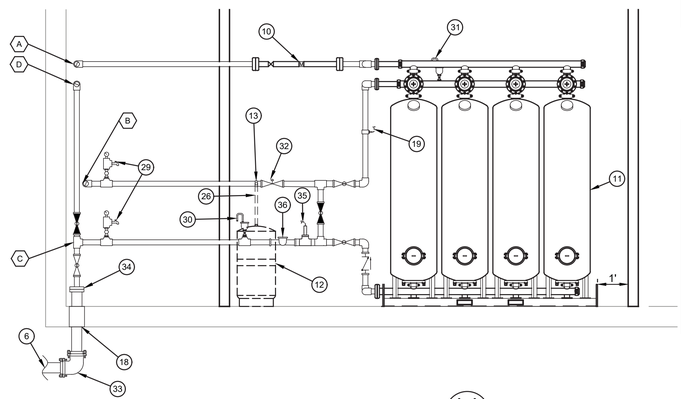
KEY	NOTE:	DETAIL/ SHEET
1	TO BACKWASH INFILTRATION AREA	CW06
2	AIR GAP	B/CW15
3	FROM WELL	CW06
4	FROM SERVICE CONNECTION. CONNECT TO SERVICE CONNECTION PIPING WITH FITTINGS AND ADAPTERS AS NECESSARY	CW06
5	STATIC MIXER	-
6	TO RESERVOIR	CW06
7	SODIUM HYPOCHLORITE CHEMICAL METERING SYSTEM	C/CW15
8	SELF CONTAINED EYEWASH, MOUNT TO TREATMENT BUILDING WALL	-
9	BACKWASH METER PANEL	-
10	BACKWASH ASSEMBLY	CW14
11	ATEC FILTRATION SYSTEM	CW13/CW14
12	PRESSURE TANK	-
13	SADDLE TAP W/ 1" TAP	-
14	FLOW SWITCH	E/CW15
15	INSTALL NEW WALL AND INTERTNAL DOOR, SEE ARCHITECTURAL SPECS	-
16	INSTALL STEEL SECURITY DOOR	-
17	(2) 120V SWITCHED OUTLETS FOR METERING PUMP(S)	-
18	MODULAR PIPE SEALING SYSTEM	-
19	ROUTE HDPE TUBING FROM FILTER CONTROL PANEL TO FILTER INLET PIPING FOR FILTER SOLENOID BACKWASH VALVE HYDRAULIC CONTROL. PROVIDE FITTINGS AND ADAPTERS AS NEEDED. SEE TREATMENT SYSTEM CONTROLS NOTES ON SHEET C14. SECURE TUBING TO TREATMENT BUILDING PIPING AS NEEDED	-
20	FILTER SYSTEM CONTROL PANEL	-
21	SODIUM HYPOCHLORITE CHEMICAL INJECTION POINT	C/CW15
22	CONCRETE SPLASH PAD	-
23	ROUTE EYEWASH DRAIN HOSE WITH SCH. 80 PVC SLEEVE THROUGH TREATMENT BUILDING WALL TO CONCRETE SPLASH PAD. SEAL PUMPHOUSE WALL AROUND PVC SLEEVE AND INSTALL #24 MESH NON-CORRODIBLE SCREEN WITH STAINLESS STEEL HOSE CLAMP ON END OF PVC SLEEVE OUTSIDE TREATMENT BUILDING	-
24	EXTEND EXISTING WALL, SEE ARCHITECTURAL SPECIFICATIONS	-
25	ROUTE SCH. 80 PVC PIPE FOR PRESSURE RELIEF VALVE DRAIN LINE AGAINST TREATMENT BUILDING WALLS TO EMERGENCY EYEWASH CONCRETE SPLASH PAD. SEAL PIPE PENETRATION THROUGH INTERNAL AND EXTERIOR WALLS. INSTALL #24 MESH MON-CORRODIBLE SCREEN WITH STAINLESS STEEL HOSE CLAMS ON END OF PIPE OUTSIDE OF TREATMENT BUILDING	-
26	1" SCH. 80 PVC PIPE	-
27	NOT USED	
28	SEE KEYNOTE 13 FOR PIPE CONNECTION POINT	-
29	SAMPLE TAP AND PRESSURE GAUGE (0 TO 100 PSI)	F/CW15
30	AIR RELEASE VALVE	D/CW15
31	AIR RELEASE VALVE ON 1" COUPLER IN FILTER INLET PIPE MANIFOLD	CW13 & D/CW15
32	FLOW CONTROL SOLENOID VALVE, SET TO LIMIT FLOW THROUGH VALVE TO 35 GPM	-
33	(1) 4" 90° DI BEND (RJ) CONNECT TO PIPING PER PLAN	-
34	(1) 4" DI SPOOL (1) 4" DI BLIND FL W/ 2" TAP	-
35	FREE CHLORINE AND MONOCHLORAMINE ANALYZER SENSOR AND DISPLAY PANEL, INSTALL EQUIPMENT NEEDED FOR REAL-TIME REMOTE ACCESS TO CHLORINE RESIDUAL DATA VIA CELLULAR DATA (I.E., COMMUNICATIONS MODULE, ANTENNA, WIRING, ETC.). SET ALARM FUNCTION TO NOTIFY WATER SYSTEM OPERATOR IF FREE CHLORINE RESIDUAL DROPS BELOW 0.5 mg/L	-
36	PULSE METER AND FLOW RATE INDICATOR PANEL, INSTALL METER WITH FITTINGS AND ADAPTORS AS REQUIRED TO CONNECT TO PIPING, ROUTE PULSE SIGNAL WIRE TO FLOW RATE INDICATOR PANEL	-

TREATMENT BUILDING NOTES:

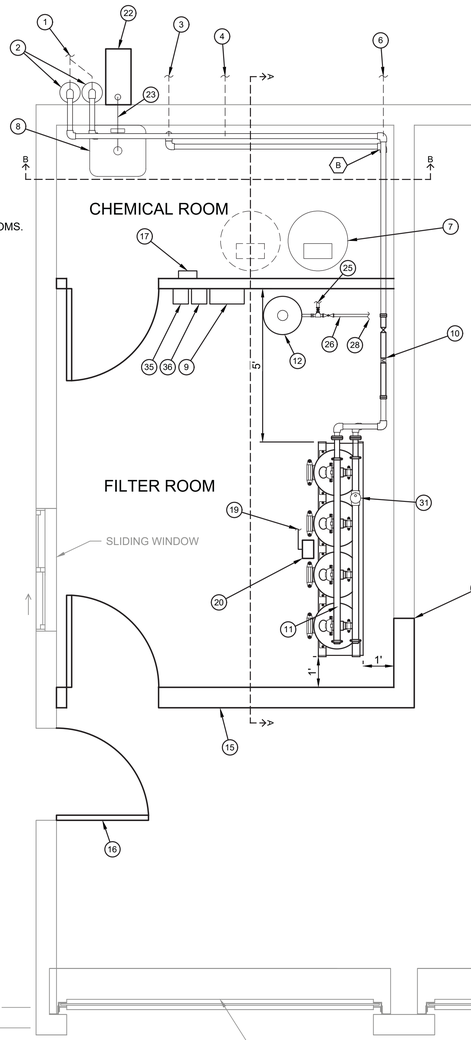
1. PROPOSED PIPING INSIDE TREATMENT BUILDING TO BE 2" PVC SCH. 80 UNLESS OTHERWISE NOTED. PROVIDE PIPE SUPPORT PER DETAIL A/CW15 AS NEEDED FOR ALL SIZE PIPES.
2. INSTALL ROOM HEATER IN FILTER ROOM CAPABLE OF MAINTAINING AN INTERNAL ROOM TEMPERATURE OF 40 °F (SEE MECHANICAL/ELECTRICAL SPECIFICATIONS).
3. FILTER ROOM VENTILATION REQUIREMENTS (SEE MECHANICAL/ELECTRICAL SPECIFICATIONS):
   A. THE ROOM SHALL CONTAIN A CORROSION RESISTANT SHUTTER-MOUNT EXHAUST FAN CAPABLE OF TURING OVER A VOLUME OF AIR EQUIVALENT TO TEN TIMES THE INTERNAL VOLUME OF THE ROOM PER HOUR. FAN OPENING SHALL BE INSTALLED 6 INCHES BELOW TOP OF WALL ON WEST WALL.
   B. EXHAUST FAN SHALL BE ON A 24-HOUR TIMER FOR FAN CONTROL.
   C. THE ROOM SHALL CONTAIN CORROSION RESISTANT LOUVERED AND SCREENED VENT OPENINGS WITH BACKDRAFT DAMPERS ON THE WEST, SOUTH, AND EAST WALLS. VENT OPENINGS SHALL BE 2 INCHES ABOVE FINISHED FLOOR.
4. CHEMICAL ROOM VENTILATION REQUIREMENTS (SEE MECHANICAL/ELECTRICAL SPECIFICATIONS):
   A. THE ROOM SHALL CONTAIN A CORROSION RESISTANT SHUTTER-MOUNT EXHAUST FAN CAPABLE OF TURING OVER A VOLUME OF AIR EQUIVALENT TO TEN TIMES THE INTERNAL VOLUME OF THE ROOM PER HOUR. FAN OPENING SHALL BE INSTALLED 2 INCHES ABOVE FINISHED FLOOR ON WEST WALL.
   B. EXHAUST FAN SHALL BE ON A 24-HOUR TIMER FOR FAN CONTROL.
   C. THE ROOM SHALL CONTAIN CORROSION RESISTANT LOUVERED AND SCREENED VENT OPENINGS WITH BACKDRAFT DAMPERS ON THE SOUTH WALL. VENT OPENINGS SHALL BE 6 INCHES BELOW TOP OF WALL.
5. INSTALL INTERNAL LIGHTING IN CHEMICAL ROOM AND FILTER ROOM WITH SWITCHES LOCATED IN RESPECTIVE ROOMS.
6. INSTALL EXTERNAL DOOR LIGHT WITH SWITCH INSIDE FILTER ROOM.



TREATMENT BUILDING SECTION B-B (B-B / CW11)
NTS



TREATMENT BUILDING SECTION A-A (A-A / CW11)
NTS



SCALE IN FEET

PUMPHOUSE IMPROVEMENTS SYMBOL KEY

	SCH 80 PVC TRUE UNION BALL VALVE (N/O)
	SCH 80 PVC TRUE UNION BALL VALVE (N/C)
	PIPE BENDS
	TEES AND CROSSES
	SCH 80 PVC TRUE UNION BALL CHECK VALVE
	AIR RELEASE VALVE
	SAMPLE TAP
	CAP
	REDUCER (2"x4")
	PRESSURE GUAGE
	PRESSURE RELEASE VALVE - ASME SECTION VIII
#	REFERENCE LOCATION. MATCHING POINTS IN DIFFERENT VIEWS REPRESENT THE SAME LOCATION

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JEFFREY M TASOFF — STATE OF WASHINGTON — 21640 — REGISTERED PROFESSIONAL ENGINEER

Digitally signed by Jeffrey M Tasoff
Date: 2025.06.02 11:18:02 -07'00'

SOUTH WHIDBEY PARKS
WATER SYSTEM IMPROVEMENTS
5491 MAXWELTON RD, LANGLEY, WA 98260
PROJECT NUMBER: 2401.0397.00

CONTRACT DOCUMENTS

TREATMENT SYSTEM PLANS

DATE: 06/02/2025
PLAN NUMBER:
CW11
SHEET 11 OF 19

FILE LOCATION: Z:\SHARED\PROJECTS\ACTIVE\2024\01\401.0397.00 - SWPP WATER SYSTEM\DRAWING\SCAD-REV\TI\ACTIVEFILES\WPP WATER DETAILS.DWG - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (36.00 X 24.00 INCHES) - LAST MODIFIED BY: SCOTT STALLMAN
PRINCIPAL: JT | PROJECT MANAGER: JT | DESIGNED BY: NS | DRAWN BY: NMD, RB | CHECKED BY: JT

PROPOSED SODIUM HYPOCHLORITE METERING SYSTEM SPECIFICATIONS (WELL 2)	
STOCK SODIUM HYPOCHLORITE SOLUTION RAW STRENGTH	12.5%
STOCK SODIUM HYPOCHLORITE SOLUTION VOLUME	1 GAL
DILUTION WATER VOLUME	4 GAL
TOTAL DILUTED SODIUM HYPOCHLORITE SOLUTION VOLUME	5 GAL
CHEMICAL SOLUTION TANKS SIZE	50 GAL
WELL PUMPING RATE	35 GPM
TARGET POST-FILTER FREE CHLORINE RESIDUAL	1.0 mg/L
METERING PUMP MAKE AND MODEL	LMI PD061-A40HI
METERING PUMP CAPACITY	1.75 GPH
METERING PUMP MANUAL SPEED SETTING	39%

TREATMENT SYSTEM SPECIFICATIONS AND SETTINGS	
MANUFACTURER	ATEC
TREATMENT SYSTEM CAPACITY	35 GPM
FILTER DIAMETER	18 INCHES
FILTER QUANTITY	4
FILTER RUN TIME BEFORE BACKWASH	12 HOURS
FILTER CAPACITY BEFORE BACKWASH	25,200 GAL
BACKWASH RATE PER FILTER	30 GPM
BACKWASH DURATION PER FILTER	5 MINUTES
TOTAL BACKWASH VOLUME	600 GAL
PERCENTAGE OF WATER LOST TO BACKWASH	2%

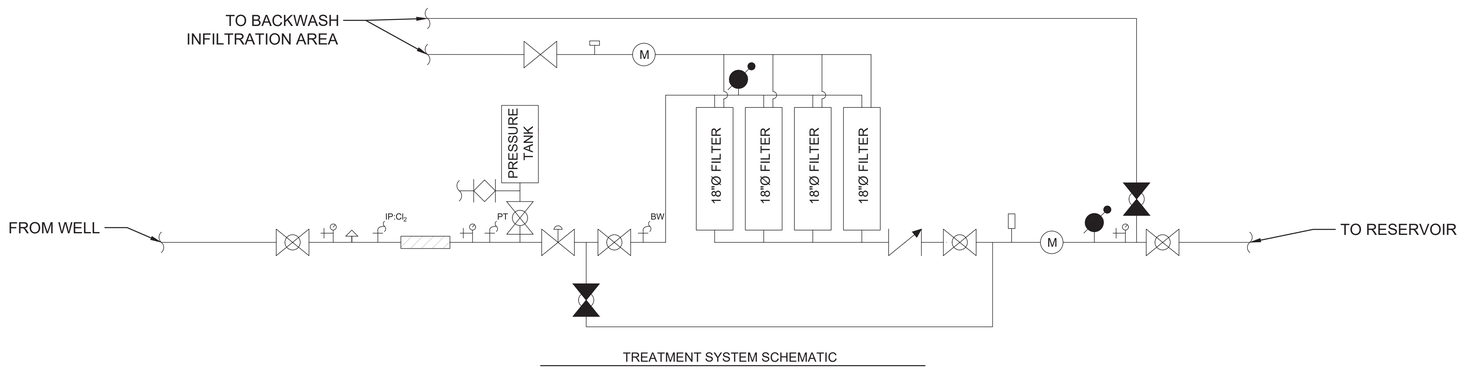
WATER SYSTEM CONTROLS NOTES:

1. SEE PROJECT SPECIFICATIONS SECTION 33 09 10 FOR WATER SYSTEM CONTROLS PERFORMANCE REQUIREMENTS FOR THE FOLLOWING:

   A. POTABLE WATER RESERVOIR CONTROLS
   B. IRRIGATION WATER RESERVOIR CONTROLS
   C. WELL PUMP VFD CONTROLS
   D. CHEMICAL METERING PUMP CONTROLS
   E. ATEC FILTRATION SYSTEM CONTROLS

TREATMENT SCHEMATIC LEGEND

	PVC TRUE UNION BALL VALVE (N/O)
	PVC TRUE UNION BALL VALVE (N/C)
	FLOW SWITCH
	SAMPLE TAP
IP:Cl_2	SODIUM HYPOCHLORITE INJECTION POINT
BW	BACKWASH VALVE HYDRAULIC CONTROL TUBING CONNECTION POINT
	STATIC MIXER
	PRESSURE GAUGE
	AIR RELEASE VALVE
	BACKWASH THROTTLING VALVE
M	WATER METER
	SIGHT GLASS
	PRESSURE RELIEF VALVE - ASME SECTION VIII
	CHECK VALVE
PT	PRESSURE TRANSMITTER
	FLOW CONTROL SOLENOID VALVE
	CHLORINE ANALYZER



TREATMENT SYSTEM SCHEMATIC

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JEFFREY M TASOFF
STATE OF WASHINGTON
Signed 6/2/25
Date 6/2/25
REGISTERED PROFESSIONAL ENGINEER

SOUTH WHIDBEY PARKS
WATER SYSTEM IMPROVEMENTS
5491 MAXWELTON RD, LANGLEY, WA 98260
PROJECT NUMBER: 2401.0397.00

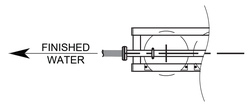
CONTRACT DOCUMENTS

TREATMENT SYSTEM SCHEMATICS & SETTINGS

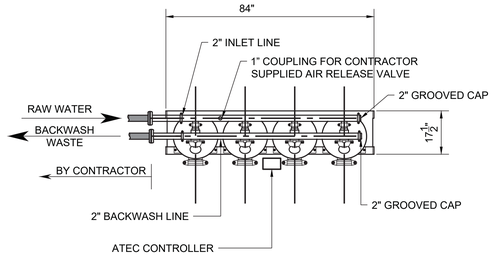
DATE: 06/02/2025

PLAN NUMBER:
CW12
SHEET 12 OF 19

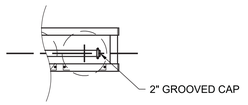
FILE LOCATION: Z:\SHARED\PROJECTS\ACTIVE\2024\2401.0397.00 - SWPA WATER SYSTEM\DRAWINGS\CAD-REVIT\ACTIVEFILES\SWPA WATER DETAILS.DWG - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (36.00 X 24.00 INCHES) - LAST MODIFIED BY: SCOTT STALLMAN
PRINCIPAL: JT PROJECT MANAGER: JT DESIGNED BY: MS DRAWN BY: NMD, RB CHECKED BY: JT



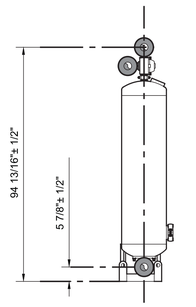
LEFT SIDE, FILTERS REMOVED



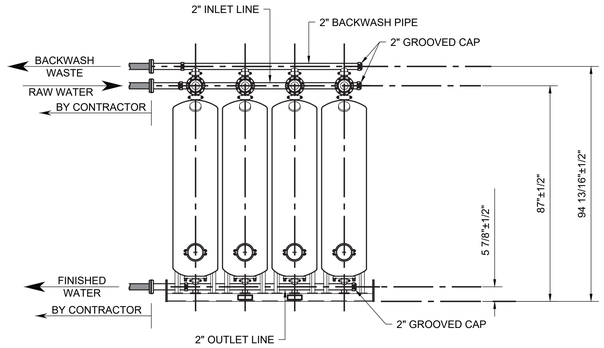
PLAN VIEW



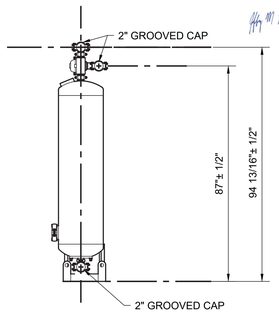
RIGHT SIDE, CAPPED



LEFT ELEVATION



SECTION VIEW



RIGHT ELEVATION

NOTES:

1. FILTRATION SYSTEM SHALL BE ATEC.
2. THE 4-FILTER SYSTEM IS DELIVERED ON (1) 4-FILTER SKID.
3. AIR RELEASE VALVE ON 1" COUPLING ON INLET LINE IS PROVIDED BY CONTRACTOR.
4. SHADED PIPING BY CONTRACTOR.
5. FILTER PIPING CONNECTIONS WILL BE PROVIDED TO SUIT FIELD CONDITION.

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PRINCIPAL: JT PROJECT MANAGER: JT DESIGNED BY: MS DRAWN BY: NMD, RB CHECKED BY: JT

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Digitally signed by JEFFREY M TASOFF
Date: 2025.06.02 14:57:21 -07'00'

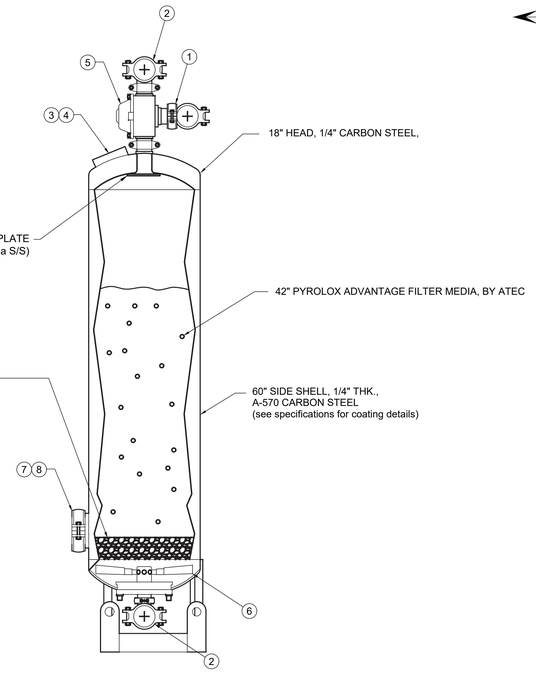
JEFFREY M TASOFF
STATE OF WASHINGTON
21622
REGISTERED
PROFESSIONAL ENGINEER

SOUTH WHIDBEY PARKS
WATER SYSTEM IMPROVEMENTS
5491 MAXWELTON RD, LANGLEY, WA 98260
PROJECT NUMBER: 2401.0397.00

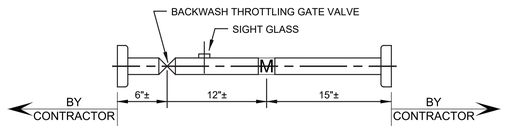
CONTRACT DOCUMENTS

TREATMENT SYSTEM
FILTER DETAILS 1

DATE: 06/02/2025
PLAN NUMBER:
CW13
SHEET 13 OF 19



SECTION THROUGH TANK



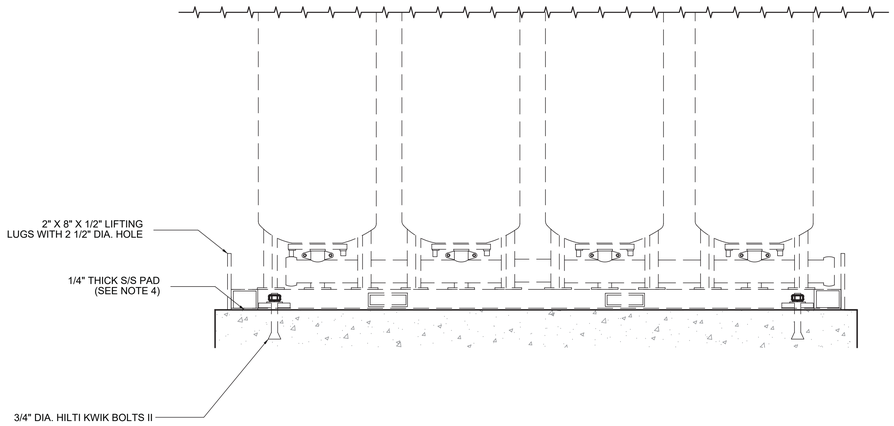
BACKWASH ASSEMBLY

SCALE: 1 1/2" = 1'-0"

SHIPPED LOOSE - 1 1/2"ø PVC BACKWASH ASSEMBLY
33"± LONG WITH 1 1/2" FLANGES, BOTH ENDS
(OPT. ADDITIONAL COST ITEM)

BILL OF MATERIAL			
ITEM	QTY	PART NO.	DESCRIPTION
1	4	PFS-CPL02	2" GROOVED COUPLING, CAST IRON W/ BOLTS & GASKET
2	1	PFS-CPL03	3" GROOVED COUPLING, CAST IRON W/ BOLTS & GASKET
3	1	PFS-CPL04	4" GROOVED COUPLING, CAST IRON W/ BOLTS & NUTS
4	1	PFS-CPL04	4" GROOVED CAST IRON CAP
5	1	PFS=HHP11	2"x2"x2" BACKFLUSH VALVE, BERNAD MOD 350
6	1	PFS-HHG11	UNDER-DRAIN ASSEMBLY 316L SS W/ SCH 80 CAP COMPLETE
7	1	PFS-HHGS11	6" GROOVED COUPLING, CAST IRON W/ BOLTS & NUTS
8	1	PFS-HHCR11	6" GROOVED END CAP
9	1	73PP9YZCM24VAC	SOLENOID VALVE, PETER PAUL(NOT SHOWN)

NOTE: QUANTITIES FOR ONE (1) TANK



SKID SECTION

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JEFFREY M. TASOFF
STATE OF WASHINGTON
41429
REGISTERED
PROFESSIONAL ENGINEER

Digitally signed by Jeffrey Tasoff
Date: 2025.11.19 11:19:15 -07'00'

CALL 811
2 BUSINESS DAYS
BEFORE YOU DIG
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

NO.	DATE	BY	REVISION

BASE MAP/TOPOGRAPHY PROVIDED BY OTHERS. FACET CANNOT BE HELD LIABLE FOR ACCURACY. CONTRACTOR SHALL FIELD VERIFY GRADES, UTILITIES, AND ALL OTHER EXISTING FEATURES AND CONDITIONS. IF CONDITIONS ARE NOT AS SHOWN AND/OR AS ANTICIPATED, CONTACT FACET PRIOR TO CONSTRUCTION.

SOUTH WHIDBEY PARKS
WATER SYSTEM IMPROVEMENTS
5491 MAXWELTON RD, LANGLEY, WA 98260
PROJECT NUMBER: 2401.0397.00

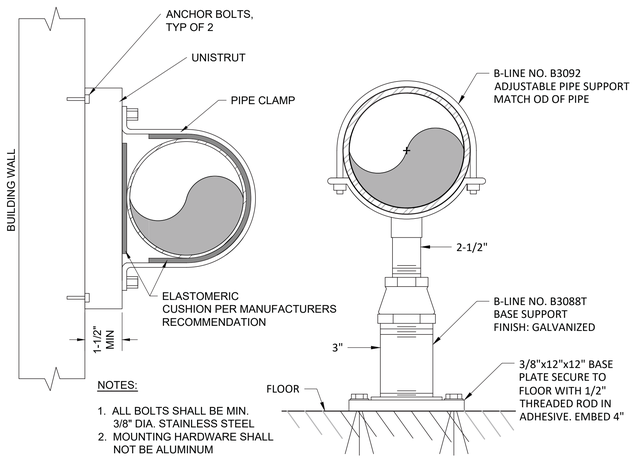
CONTRACT DOCUMENTS

TREATMENT SYSTEM
FILTER DETAILS 2

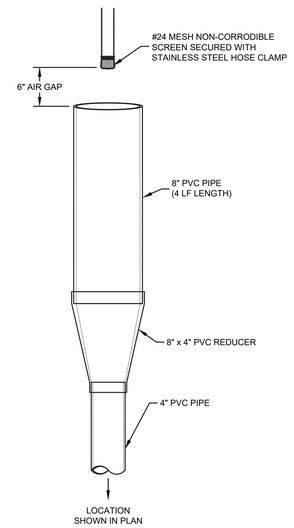
DATE: 06/02/2025

PLAN NUMBER:
CW14
SHEET 14 OF 19

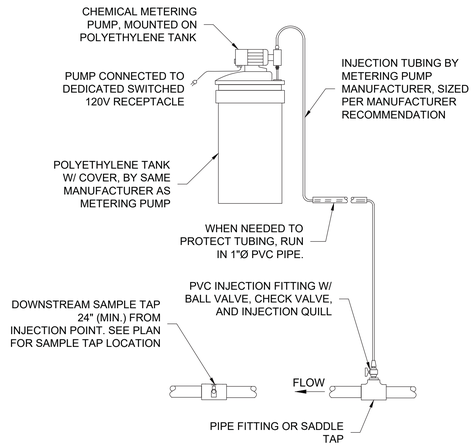
FILE LOCATION: Z:\SHARED\PROJECTS\ACTIVE\2024\2401.0397.00 - SWPR WATER SYSTEM\DRAWINGS\CAD-REVIT\ACTIVE\SWPR WATER DETAILS.DWG - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (36.00 X 24.00 INCHES) - LAST MODIFIED BY: SCOTT STALLMAN
PRINCIPAL: JT PROJECT MANAGER: JT DESIGNED BY: MS DRAWN BY: NMD, RB CHECKED BY: JT



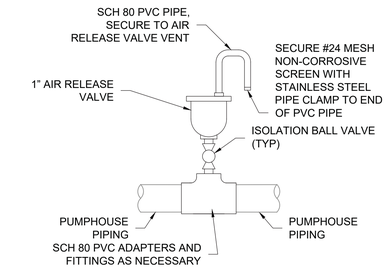
PIPE SUPPORT DETAIL (WALL AND FLOOR MOUNT) — A VAR
STANDARD DETAIL
NTS



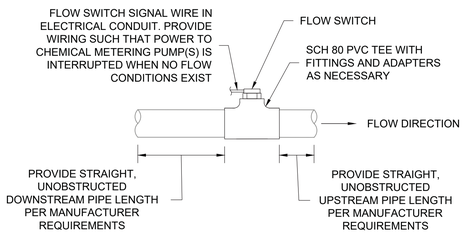
AIR GAP
PROJECT DETAIL
NTS — B VAR



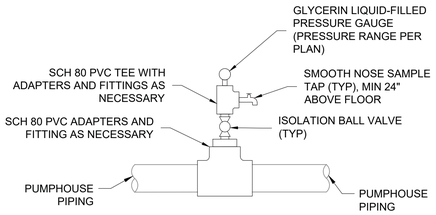
CHEMICAL METERING SYSTEM
STANDARD DETAIL
NTS — C VAR



AIR RELEASE VALVE
PROJECT DETAIL
NTS — D VAR



FLOW SWITCH
PROJECT DETAIL
NTS — E VAR



SAMPLE TAP AND PRESSURE GAUGE WITH ISOLATION VALVE — F VAR
PROJECT DETAIL
NTS

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JEFFREY M. TASOFF — STATE OF WASHINGTON — 41429 — REGISTERED PROFESSIONAL ENGINEER

Digitally signed by Jeffrey M. Tasoff
Date: 2025.06.02 11:19:33 -07'00'

SOUTH WHIDBEY PARKS
WATER SYSTEM IMPROVEMENTS
5491 MAXWELTON RD, LANGLEY, WA 98260
PROJECT NUMBER: 2401.0397.00

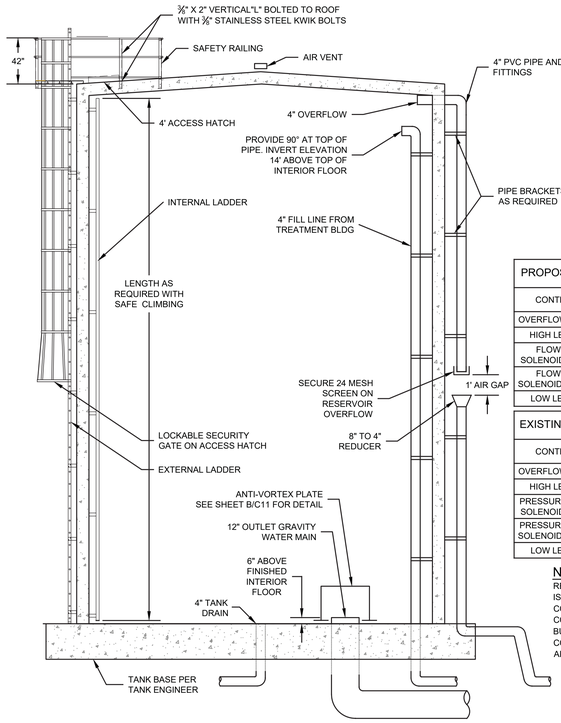
CONTRACT DOCUMENTS

TREATMENT SYSTEM GENERAL DETAILS

DATE: 06/02/2025

PLAN NUMBER:
CW15
SHEET 15 OF 19

FILE LOCATION: Z:\SHARED\PROJECTS\ACTIVE\2024\2401.0397.00 - SWPR WATER SYSTEM\DRAWINGS\CAD-REVIT\ACTIVEFILES\SWPR WATER DETAILS.DWG - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (36.00 X 24.00 INCHES) - LAST MODIFIED BY: SCOTT STALLMAN
PRINCIPAL: JT PROJECT MANAGER: JT DESIGNED BY: MS DRAWN BY: NMD, RB CHECKED BY: JT

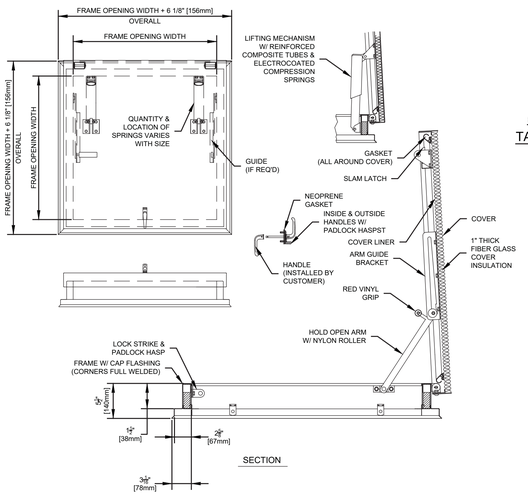


CROSS SECTION

PROPOSED (POTABLE) RESERVOIR SET POINTS	
CONTROL POINT	WATER LEVEL HEIGHT ABOVE TANK FLOOR
OVERFLOW PIPE INVERT	24.50'
HIGH LEVEL ALARM	24.30'
FLOW CONTROL SOLENOID VALVE OPEN	24.00'
FLOW CONTROL SOLENOID VALVE CLOSE	23.00'
LOW LEVEL ALARM	19.00'

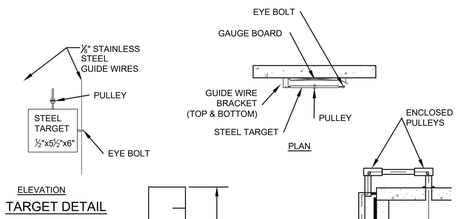
EXISTING (IRRIGATION) RESERVOIR SET POINTS	
CONTROL POINT	WATER LEVEL HEIGHT ABOVE TANK FLOOR
OVERFLOW PIPE INVERT	19.75'
HIGH LEVEL ALARM	19.75'
PRESSURE-SUSTAINING SOLENOID VALVE OPEN	19.50'
PRESSURE-SUSTAINING SOLENOID VALVE CLOSE	17.50'
LOW LEVEL ALARM	12.50'

NOTE:
RESERVOIR DESIGN AND STRUCTURAL ENGINEERING IS THE RESPONSIBILITY OF THE RESERVOIR CONTRACTOR. CONTRACTOR TO PROVIDE SITE COMPLIANT DESIGN AND REQUIRED CONSTRUCTION BUILDING PERMIT FROM ISLAND COUNTY. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL DETAILS ON THIS SHEET.

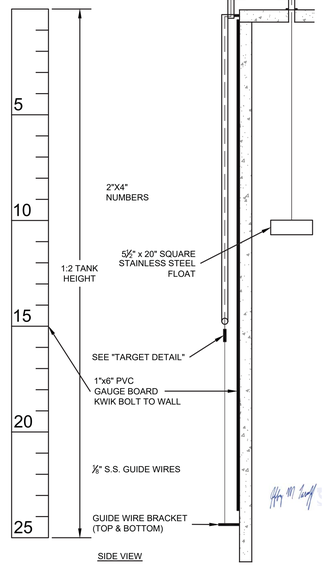


SECTION

ENTRY HATCH DETAIL
NOT TO SCALE

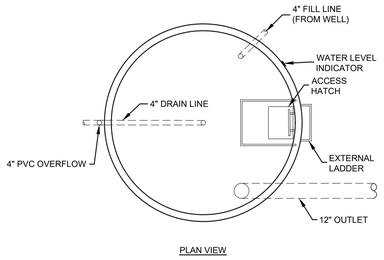


TARGET DETAIL



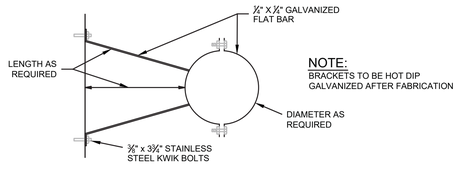
SIDE VIEW

WATER LEVEL INDICATOR DETAIL



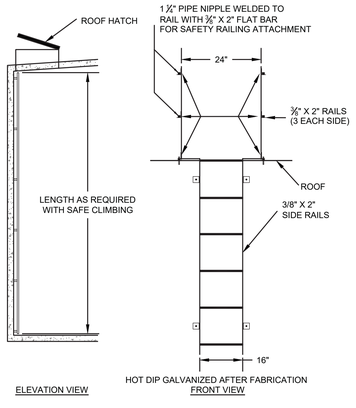
PLAN VIEW

RESERVOIR DETAILS
NOT TO SCALE



NOTE:
BRACKETS TO BE HOT DIP GALVANIZED AFTER FABRICATION

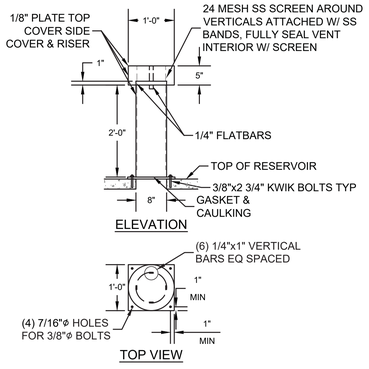
BRACKETS FOR MOUNTING PIPING TO WALL DETAIL



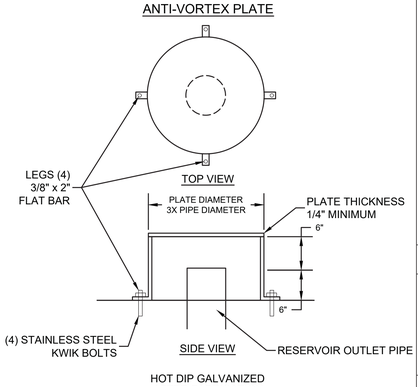
ELEVATION VIEW

HOT DIP GALVANIZED AFTER FABRICATION
FRONT VIEW

INTERNAL LADDER DETAIL



AIR VENT DETAILS



HOT DIP GALVANIZED AFTER FABRICATION

VORTEX PLATE DETAIL

CALL 811
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JEFFREY M. TASOFF — STATE OF WASHINGTON — 41429 — REGISTERED PROFESSIONAL ENGINEER
Digitally signed by Jeffrey M. Tasoff
Date: 2025.06.02 11:19:53 -07'00'

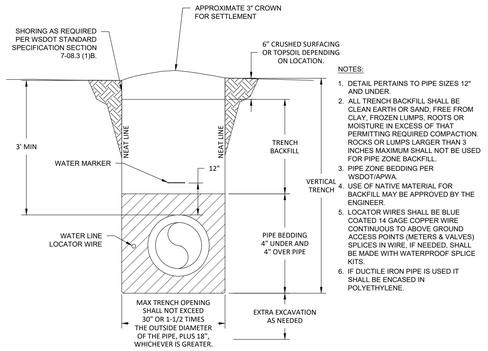
SOUTH WHIDBEY PARKS
WATER SYSTEM IMPROVEMENTS
5491 MAXWELTON RD, LANGLEY, WA 98260
PROJECT NUMBER: 2401.0397.00

CONTRACT DOCUMENTS

PROPOSED RESERVOIR DETAILS

DATE: 06/02/2025
PLAN NUMBER: CW16
SHEET 16 OF 19

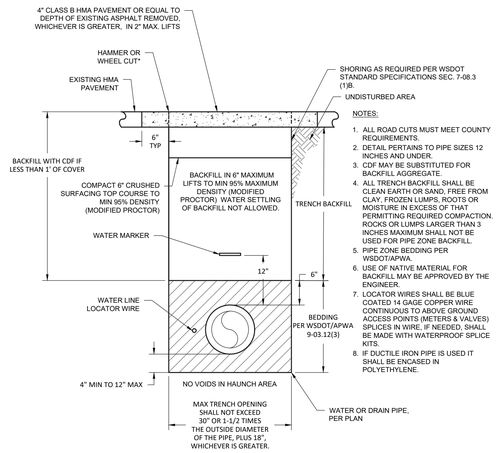
FILE LOCATION: Z:\SHARED\PROJECTS\ACTIVE\2024\01\2401.0397.00 - SWPR WATER SYSTEM\DRAWINGS\CAD-REVIT\ACTIVE\SWPR WATER DETAILS.DWG - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (36.00 X 24.00 INCHES) - LAST MODIFIED BY: SCOTT STALLMAN
PRINCIPAL: JT PROJECT MANAGER: JT DESIGNED BY: MS DRAWN BY: NMD, RB CHECKED BY: JT



UNPAVED

NOTES:

1. DETAIL PERTAINS TO PIPE SIZES 12" AND UNDER.
2. ALL TRENCH BACKFILL SHALL BE CLEAN EARTH OR SAND, FREE FROM CLAY, FROZEN LUMPS, ROOTS OR MOISTURE IN EXCESS OF THAT PERMITTING REQUIRED COMPACTION. ROCKS OR LUMPS LARGER THAN 3 INCHES MAXIMUM SHALL NOT BE USED FOR PIPE ZONE BACKFILL.
3. PIPE ZONE BEDDING PER WSDOT/APWA.
4. USE OF NATIVE MATERIAL FOR BACKFILL MAY BE APPROVED BY THE ENGINEER.
5. LOCATOR WIRES SHALL BE BLUE COATED 14 GAGE COPPER WIRE CONTINUOUS TO ABOVE GROUND ACCESS POINTS (METERS & VALVES) SPLICES IN WIRE, IF NEEDED, SHALL BE MADE WITH WATERPROOF SPLICE KITS.
6. IF DUCTILE IRON PIPE IS USED IT SHALL BE ENCASED IN POLYETHYLENE.



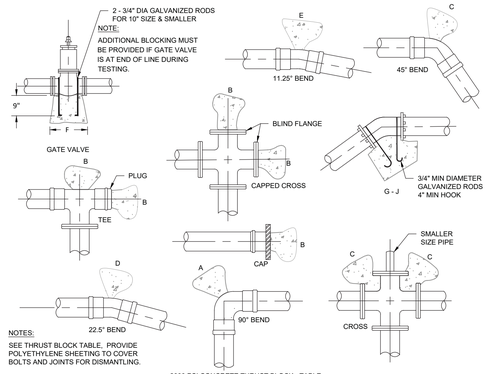
PAVED

NOTES:

1. ALL ROAD CUTS MUST MEET COUNTY REQUIREMENTS.
2. DETAIL PERTAINS TO PIPE SIZES 12 INCHES AND UNDER.
3. CDF MAY BE SUBSTITUTED FOR BACKFILL AGGREGATE.
4. ALL TRENCH BACKFILL SHALL BE CLEAN EARTH OR SAND, FREE FROM CLAY, FROZEN LUMPS, ROOTS OR MOISTURE IN EXCESS OF THAT PERMITTING REQUIRED COMPACTION. ROCKS OR LUMPS LARGER THAN 3 INCHES MAXIMUM SHALL NOT BE USED FOR PIPE ZONE BACKFILL.
5. PIPE ZONE BEDDING PER WSDOT/APWA.
6. USE OF NATIVE MATERIAL FOR BACKFILL MAY BE APPROVED BY THE ENGINEER.
7. LOCATOR WIRES SHALL BE BLUE COATED 14 GAGE COPPER WIRE CONTINUOUS TO ABOVE GROUND ACCESS POINTS (METERS & VALVES) SPLICES IN WIRE, IF NEEDED, SHALL BE MADE WITH WATERPROOF SPLICE KITS.
8. IF DUCTILE IRON PIPE IS USED IT SHALL BE ENCASED IN POLYETHYLENE.

TRENCHING 1 VAR

SCALE: NOT TO SCALE



NOTES:

SEE THRUST BLOCK TABLE. PROVIDE POLYETHYLENE SHEETING TO COVER BOLTS AND JOINTS FOR DISMANTLING.

2000 PSI CONCRETE THRUST BLOCK - TABLE

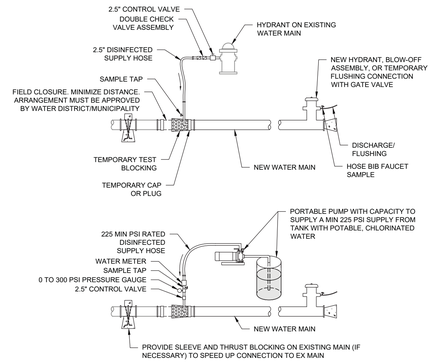
	MIN. BEARING AGAINST UNDISTURBED SOIL						VERTICAL THRUST BLOCKING			
PIPE SIZE	A - 90° (SF)	B - TEE° (SF)	C - 45° (SF)	D - 22.5° (SF)	E -11.25° (SF)	F - GV° (SF)	A - 90° (CY)	A - 90° (CY)	A - 90° (CY)	A - 90° (CY)
4"	4	4	4	4	4	-	-	-	-	-
6"	10	7	6	3	2	-	2	-	-	-
8"	18	12	10	5	3	3	4	2	-	-
10"	24	22	14	8	5	4	8	3	-	-

NOTES:

1. BEARING AREA OF CONCRETE THRUST-BLOCK BASED ON 250 PSI PRESSURE AND SAFE SOIL BEARING LOAD OF 1,000 POUNDS PER SQUARE FOOT.
2. AREAS MUST BE ADJUSTED FOR OTHER PIPE SIZES, PRESSURES AND SOIL CONDITIONS.
3. CONCRETE BLOCKING SHALL BE CAST IN PLACE AND HAVE A MINIMUM OF 36 SQUARE INCHES BEARING AGAINST THE FITTING.
4. BLOCK SHALL BEAR AGAINST FITTINGS ONLY AND SHALL BE CLEAR OF JOINTS TO PERMIT TAKING UP OR DISMANTLING OF JOINT.
5. CONTRACTORS SHALL INSTALL BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATION PRESSURE UNDER ALL CONDITIONS OF SERVICE. TEST NOT TO EXCEED 250 PSI AT LOWEST POINT.

THRUST BLOCKING 2 VAR

SCALE: NOT TO SCALE

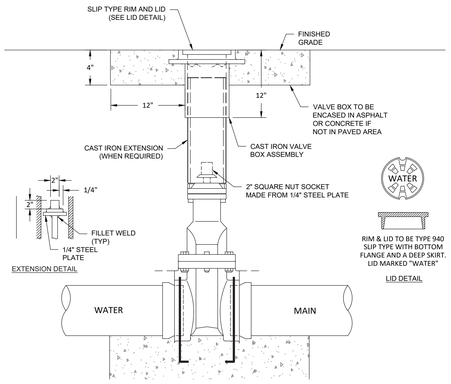


NOTES

1. THE FILLING OF MAINS SHALL BE DONE ONLY UNDER THE SUPERVISION OF THE WATER PURVEYOR.
2. AN APPROVED BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED BETWEEN THE EXISTING AND NEW WATER LINES DURING DISINFECTION AND FLUSHING OF NEW WATERMAIN.
3. THE BACKFLOW PREVENTION ASSEMBLY AND SUPPLY HOSE MUST BE DISCONNECTED DURING HYDROSTATIC PRESSURE TESTING OF THE NEW MAIN.
4. THE NEW WATERMAIN SHALL BE CONNECTED TO THE EXISTING SYSTEM ONLY AFTER NEW MAIN IS FLUSHED, DISINFECTED AND SATISFACTORY BACTERIOLOGICAL SAMPLE RESULTS ARE OBTAINED.
5. THE INTERIORS OF ALL PIPES AND FITTINGS TO BE USED IN FINAL CONNECTION MUST BE SWABBED OR SPRAYED WITH A 5% AVAILABLE CHLORINE SOLUTION.
6. PROVIDE TEMPORARY TAPPED TEE, PLUG AND THRUST BLOCK. EXCAVATE 1 FOOT BELOW MAIN (MINIMUM) AND PROVIDE GRAVEL WORKING FLOOR FOR FIELD CLOSURE. FIELD CLOSURE SHALL NOT BE INSTALLED UNTIL APPROVED BY THE WATER PURVEYOR (AFTER A SATISFACTORY BACTERIOLOGICAL REPORT).
7. MINIMUM CHLORINE LEVEL AFTER 24 HOUR RETENTION SHALL BE 25 mg/L. DE-CHLORINATE ALL WATER FLUSHED FROM MAINS
8. MINIMUM PRESSURE SHALL BE 225 PSI. PRESSURE SHALL BE MAINTAINED FOR 2 HOURS WITH LESS THAN 10 PSI DROP IN PRESSURE AND LESS THAN 1 GALLON OF MAKEUP WATER.

WATER MAIN FILLING DETAIL 3 VAR

SCALE: NOT TO SCALE

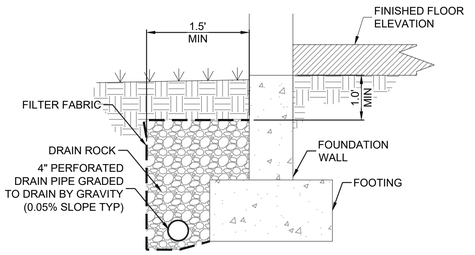


NOTES:

1. VALVE BOXES SHALL BE CENTERED DIRECTLY OVER THE VALVE NUT IN A VERTICAL POSITION.
2. VALVE BOX TOP SHALL BE ADJUSTED TO MEET FINISHED GRADE.
3. EXTENSION PIECES MUST FIT INTO THE TOP SECTION OF THE VALVE BOX AND OVER THE BOTTOM SECTION OF THE VALVE ASSEMBLY.
4. ALIGN PICK HOLES SLOTS OF THE RIM TO BE ALIGNED WITH DIRECTION OF THE WATER MAIN.
5. SEE THRUST BLOCK DETAIL FOR ADDITIONAL SPECIFICATIONS.

GATE VALVE 4 VAR

SCALE: NOT TO SCALE



FOOTING DRAIN SIMILAR DETAIL 5 VAR

SCALE: NOT TO SCALE

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JEFFREY M TAPROFF
STATE OF WASHINGTON
41424
REGISTERED
PROFESSIONAL ENGINEER

Digitally signed by Jeffrey M Taproff
Date: 2025.06.02 11:20:09 -07'00'

SOUTH WHIDBEY PARKS
WATER SYSTEM IMPROVEMENTS
5491 MAXWELTON RD, LANGLEY, WA 98260
PROJECT NUMBER: 2401.0397.00

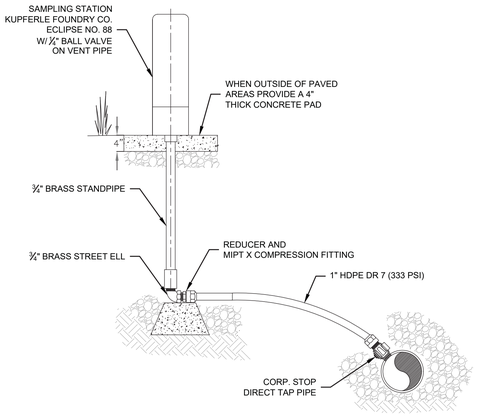
CONTRACT DOCUMENTS

WATER MAIN INSTALLATION DETAILS

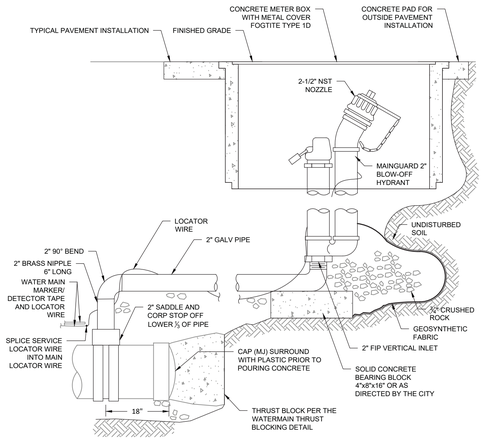
DATE: 06/02/2025

PLAN NUMBER:
CW17
SHEET 17 OF 19

FILE LOCATION: Z:\SHARED\PROJECTS\ACTIVE\2024\01\2401.0397.00 - SWPR WATER SYSTEM\DRAWINGS\CAD-REVIT\ACTIVEFILES\WPR WATER DETAILS.DWG - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (36.00 X 24.00 INCHES) - LAST MODIFIED BY: SCOTT STALLMAN
PRINCIPAL: JT PROJECT MANAGER: JT DESIGNED BY: MS DRAWN BY: NMD, RB CHECKED BY: JT

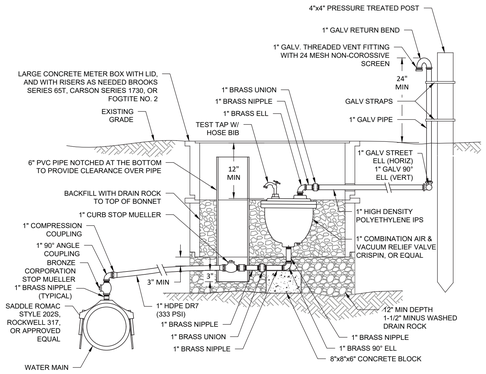


SAMPLING STATION 6 VAR
SCALE: NOT TO SCALE



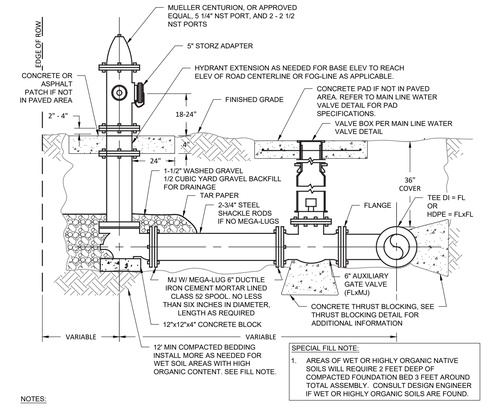
2" BLOWOFF DETAIL 7 VAR
SCALE: NOT TO SCALE

NOTES:
1. LOCATOR WIRES SHALL BE BLUE COATED 14 GAGE COPPER WIRE CONTINUOUS TO ABOVE GROUND ACCESS POINTS (METER BOX) SPLICES IN WIRE, IF NEEDED, SHALL BE MADE WITH WATERPROOF SPLICE KITS.
2. BLOW-OFF HYDRANTS SHALL BE A NON-FREEZING, SELF DRAINING TYPE WITH A MINIMUM DEPTH OF BURY OF 3 FEET. SET UNDERGROUND IN A CONCRETE METER BOX. HYDRANTS SHALL BE FURNISHED WITH A 2" FIP INLET, A NON-TURNING OPERATING ROD, AND SHALL OPEN TO THE LEFT. ALL OF THE WORKING PARTS SHALL BE OF BRONZE-TO-BRONZE DESIGN WITH AN ALUMINUM PLUNGER AND SERVICEABLE FROM ABOVE GRADE WITH NO DIGGING. THE OUTLET SHALL BE BRONZE AND 2-1/2" NST BLOW-OFF SHALL BE LOCKABLE TO PREVENT UNAUTHORIZED USE.



AIR RELEASE VALVE ASSEMBLY 8 VAR
SCALE: NOT TO SCALE

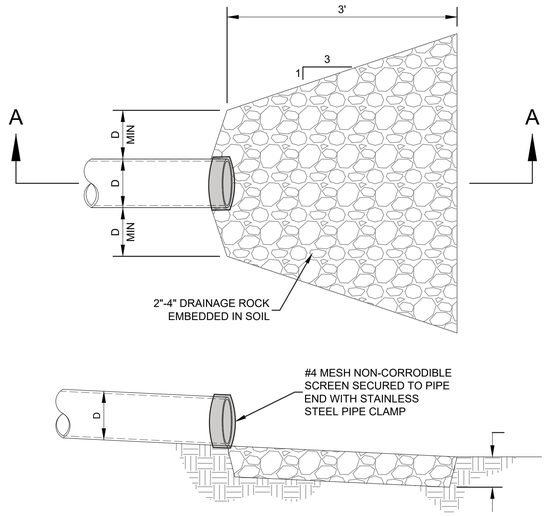
NOTES:
1. AIR-N-VAC UNIT AND BOX SHALL BE INSTALLED IN A NON-TRAFFIC AREA.
2. SADDLE FOR AIR-N-VAC UNIT SHALL BE INSTALLED AT THE HIGH POINT OF THE LINE. IF HIGH POINT FALLS IN LOCATION WHERE ASSEMBLY CANNOT BE INSTALLED, INSTALL WATER MAIN TO CREATE A HIGH POINT WHERE AIR-N-VAC CAN BE LOCATED.
3. ALL PIPE AND FITTINGS SHALL BE MINIMUM PRESSURE CLASS 250 PSI, IPS SIZE. ALL FITTINGS BETWEEN MAIN AND AIR-N-VAC SHALL BE BRASS AND ALL FITTINGS ON THE AIR-N-VAC DISCHARGE SHALL BE GALVANIZED.
4. CONCRETE METER BOX PENETRATIONS SHALL BE GROUTED.
5. AIR-N-VAC RISER SHALL BE PAINTED AS DIRECTED BY THE ENGINEER.



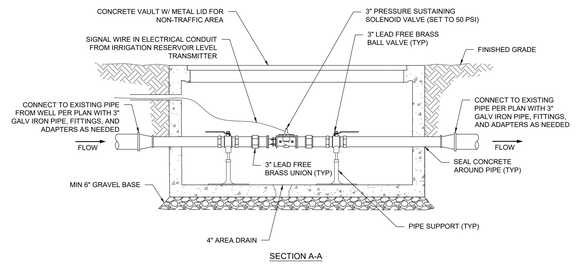
SPECIAL FILL NOTE:
1. AREAS OF WET OR HIGHLY ORGANIC NATIVE SOILS WILL REQUIRE 2 FEET DEEP OF COMPACTED FOUNDATION BED 3 FEET AROUND TOTAL ASSEMBLY. CONSULT DESIGN ENGINEER IF WET OR HIGHLY ORGANIC SOILS ARE FOUND.

NOTES:
1. INSTALL BLUE PAVEMENT MARKER IF HYDRANT IS IN RIGHT-OF-WAY.
2. USE RESTRAINED JOINTS (MEGALUG RETAINER GLANDS) AT ALL LATERAL PIPE FITTINGS. PIPE-TO-PIPE JOINTS SHALL BE "THRUST-LOCK" BOLTLESS RESTRAINTS BY PACIFIC STATES CO. OR FIELD-LOK GASKETS IF HYDRANT LATERAL RUN EXCEEDS (1) STANDARD PIPE LENGTH.
3. AN OPERATING NUT EXTENSION SHALL BE INSTALLED WHEN THE GROUND SURFACE IS MORE THAN 36" ABOVE THE VALVE OPERATING NUT.
4. HYDRANT SHALL BE PRIME-COATED WITH STEELCOTE SR-53 HEAVY DUTY BRUSH TYPE OR APPROVED EQUAL. TOP COATS SHALL BE STEELCOTE ACID AND OIL RESISTANT ENAMEL NO 44-68, BRUSH TYPE OR APPROVED EQUAL. PAINT COLORS SHALL BE RED FOR THE FIRE HYDRANT BARREL, AND WHITE FOR THE FIRE HYDRANT BONNET.
5. STENCIL ON FACE OF HYDRANT BARREL WITH 2" CONTRASTING LETTERS. THE DISTANCE FROM THE HYDRANT TO THE GATE VALVE IN FEET AND INCHES.

FIRE HYDRANT ASSEMBLY 9 VAR
SCALE: NOT TO SCALE



ROCK SPLASHPAD DETAIL 10 VAR
SCALE: NOT TO SCALE



SECTION A-A

NOTES:
1. USE DIELECTRIC FITTINGS WHEN CONNECTING DISSIMILAR METALS.

PRESSURE SUSTAINING SOLENOID VALVE VAULT 11 VAR
SCALE: NOT TO SCALE

CALL 811
2 BUSINESS DAYS
BEFORE YOU DIG
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

NO.	DATE	BY	REVISION

BASE MAP/TOPOGRAPHY PROVIDED BY OTHERS. FACET CANNOT BE HELD LIABLE FOR ACCURACY. CONTRACTOR SHALL FIELD VERIFY GRADES, UTILITIES, AND ALL OTHER EXISTING FEATURES AND CONDITIONS. IF CONDITIONS ARE NOT AS SHOWN AND/OR ELSE CANNOT BE CONSTRUCTED AS SHOWN, CONTACT FACET PRIOR TO CONSTRUCTION.

FACET
P: 360.331.4131
www.facetnw.com
P.O. Box 1132
Freeland, WA 98249
FEDERAL WAY | KIRKLAND | MOUNT VERNON | SEATTLE | SPOKANE | WHIDBEY ISLAND

JEFFREY M. TAGGART
STATE OF WASHINGTON
41424
REGISTERED
PROFESSIONAL ENGINEER

Digitally signed by Jeffrey M. Taggart
Date: 2025.06.02 11:20:28 -07'00'

SOUTH WHIDBEY PARKS
WATER SYSTEM IMPROVEMENTS
5491 MAXWELTON RD, LANGLEY, WA 98260
PROJECT NUMBER: 2401.0397.00

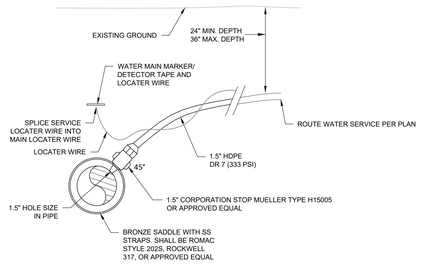
CONTRACT DOCUMENTS

WATER MAIN INSTALLATION DETAILS

DATE: 06/02/2025

PLAN NUMBER:
CW18
SHEET 18 OF 19

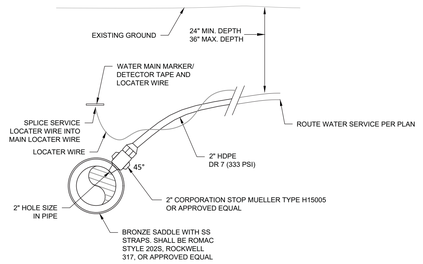
FILE LOCATION: Z:\SHARED\PROJECTS\ACTIVE\2024\01.0397.00 - SWPR WATER SYSTEM\DRAWINGS\CAD-REVIT\ACTIVE\FILES\SWPR WATER DETAILS.DWG - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (36.00 X 24.00 INCHES) - LAST MODIFIED BY: SCOTT STALLMAN
PRINCIPAL: JT PROJECT MANAGER: JT DESIGNED BY: MS DRAWN BY: NMD, RB CHECKED BY: JT



NOTES:
1. ALL JOINTS TO BE COMPRESSION COUPLING WITH STAINLESS STEEL STIFFENERS
2. LOCATOR WIRES SHALL BE BLUE COATED 14 GAGE COPPER WIRE HDPE INSULATION INTENDED FOR DIRECT BURY. CONTINUOUS TO ABOVE GROUND ACCESS POINTS (METERS & HYDRANTS) SPLICES IN WIRE, IF NEEDED, SHALL BE MADE WITH WATERPROOF SPLICE KITS.
3. WATER MARKER TAPE SHALL BE INSTALLED 12-18 INCHES BELOW FINAL GRADE. NO BREAKS OR SPLICES PERMITTED. A CONTINUOUS LOOP SHALL BE PLACED FROM THE MAIN LINE TO THE METER BOX AND BACK TO MAIN LINE.
4. MARKER TAPE SHALL BE NONBIODEGRADABLE, METAL CORE OR BACKING. TAPE SHALL BE TERRA TAPE "D" OR APPROVED EQUAL.

1.5" WATER SERVICE CONNECTION
SCALE: NOT TO SCALE

12 VAR



NOTES:
1. ALL JOINTS TO BE COMPRESSION COUPLING WITH STAINLESS STEEL STIFFENERS
2. LOCATOR WIRES SHALL BE BLUE COATED 14 GAGE COPPER WIRE HDPE INSULATION INTENDED FOR DIRECT BURY. CONTINUOUS TO ABOVE GROUND ACCESS POINTS (METERS & HYDRANTS) SPLICES IN WIRE, IF NEEDED, SHALL BE MADE WITH WATERPROOF SPLICE KITS.
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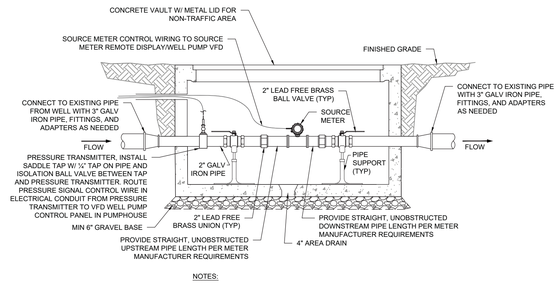
4. MARKER TAPE SHALL BE NONBIODEGRADABLE, METAL CORE OR BACKING. TAPE SHALL BE TERRA TAPE "D" OR APPROVED EQUAL.

2" WATER SERVICE CONNECTION
SCALE: NOT TO SCALE

13 VAR



NOTES:
1. USE DIELECTRIC FITTINGS WHEN CONNECTING DISSIMILAR METALS.

SOURCE METER VAULT
SCALE: NOT TO SCALE

14 VAR

CALL 811
2 BUSINESS DAYS
BEFORE YOU DIG
(UNDERGROUND UTILITY LOCATIONS ARE APPROX.)

NO.	DATE	BY	REVISION

BASE MAP/TOPOGRAPHY PROVIDED BY OTHERS. FACET CANNOT BE HELD LIABLE FOR ACCURACY. CONTRACTOR SHALL FIELD VERIFY GRADES, UTILITIES, AND ALL OTHER EXISTING FEATURES AND CONDITIONS. IF CONDITIONS ARE NOT AS SHOWN AND/OR AS ANTICIPATED, CONTACT FACET PRIOR TO CONSTRUCTION.

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JEFFREY M. TASOFF
STATE OF WASHINGTON
21429
REGISTERED
PROFESSIONAL ENGINEER

Drawn By: JT
Checked By: JT
Date: 06/02/2025
11:20:45 -07'00'

SOUTH WHIDBEY PARKS
WATER SYSTEM IMPROVEMENTS
5491 MAXWELTON RD, LANGLEY, WA 98260
PROJECT NUMBER: 2401.0397.00

CONTRACT DOCUMENTS

WATER MAIN INSTALLATION DETAILS

DATE: 06/02/2025

PLAN NUMBER:
CW19
SHEET 19 OF 19

FILE LOCATION: Z:\SHARED\PROJECTS\ACTIVE\2024\01\2401.0397.00 - SWPR WATER SYSTEM\DRAWINGS\CAD-REVIT\ACTIVEFILES\PPR WATER DETAILS.DWG - ORIGINAL SHEET SIZE: ARCH FULL BLEED D (36.00 X 24.00 INCHES) - LAST MODIFIED BY: SCOTT STALLMAN
PRINCIPAL: JT PROJECT MANAGER: JT DESIGNED BY: MS DRAWN BY: NMD, RB CHECKED BY: JT

GENERAL NOTES

1. UNLESS OTHERWISE INDICATED, ALL WORK SHALL CONFORM TO ISLAND COUNTY CODE AND WSDOT 2023 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION.
2. A COPY OF THE APPROVED PLANS MUST BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
3. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR WORK WITHIN THE PUBLIC RIGHT-OF-WAY PRIOR TO START OF CONSTRUCTION.
4. PUBLIC RIGHT-OF-WAY PAVED SURFACES INCLUDING ROADWAYS, SIDEWALKS, AND CURBS; UTILITIES; STRUCTURES AND SURFACE FEATURES THAT ARE DAMAGED BY NEW CONSTRUCTION SHALL BE REPAIRED BY CONTRACTOR AS REQUIRED BY ISLAND COUNTY AT NO ADDITIONAL COST TO OWNER.
5. NON PUBLIC RIGHT-OF-WAY PAVED SURFACES INCLUDING ROADWAYS, SIDEWALKS, AND CURBS; UTILITIES; STRUCTURES AND SURFACE FEATURES THAT ARE DAMAGED BY NEW CONSTRUCTION SHALL BE REPAIRED AS REQUIRED BY THE OWNER.
6. THE CONTRACTOR SHALL LOCATE AND PROTECT ALL CASTINGS AND UTILITIES DURING CONSTRUCTION AND SHALL CONTACT THE UNDERGROUND UTILITIES LOCATOR SERVICE (1-800-424-5555) AT LEAST 72 HOURS PRIOR TO CONSTRUCTION.
7. ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.

GRADING AND ACCESSIBILITY NOTES

1. SPOT ELEVATION WITH ± DESIGNATES AN EXISTING CONDITION WHERE PROPOSED ELEVATION SHALL MATCH EXISTING.
2. ELEVATION AND SLOPES WITH THE SYMBOL * DESIGNATE ACCESSIBLE GRADES. SLOPES SHALL NOT EXCEED SLOPES CALCULATED FROM ELEVATIONS AND LOCATIONS ON PLANS OR ON THE DETAILS. MAXIMUM 5% SLOPE ALONG ACCESSIBLE PATH OF TRAVEL. MAXIMUM 2% SLOPE IN ANY DIRECTION FOR LANDINGS, AISLES AND ACCESSIBLE PARKING STALLS.

ECOLOGY CONSTRUCTION STORMWATER GENERAL PERMIT NOTES

1. THE OWNER WILL OBTAIN A WASHINGTON STATE DEPARTMENT OF ECOLOGY CONSTRUCTION STORMWATER GENERAL PERMIT (CSWGP). THE OWNER WILL TRANSFER THE PERMIT TO THE CONTRACTOR.
2. THE CONTRACTOR SHALL COMPLY WITH CSWGP REQUIREMENTS, INCLUDING BUT NOT LIMITED TO SWPPP, SAMPLING, TESTING AND REPORTING.

TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) NOTES

1. CONSTRUCTION EROSION CONTROL MEASURES MUST BE IN PLACE AND APPROVED BY ISLAND COUNTY SITE DEVELOPMENT INSPECTOR PRIOR TO ANY EARTH DISTURBANCE.
2. CONTRACTOR SHALL PREPARE AND SUBMIT FOR PERMITTING AGENCY'S REVIEW A STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE SWPPP SHALL BE PREPARED IN ACCORDANCE WITH WASHINGTON STATE'S DEPARTMENT OF ECOLOGY REQUIREMENTS FOR COMPLIANCE WITH WASHINGTON STATE DEPARTMENT OF ECOLOGY CONSTRUCTION STORMWATER GENERAL PERMIT.
3. THE IMPLEMENTATION OF THE TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THE TESC FACILITIES IN COORDINATION WITH THE CONTRACTOR PREPARED SWPPP IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED AND SITE IS PERMANENTLY STABILIZED.
4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY SEDIMENTATION COLLECTION FACILITIES TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT DISCHARGE FROM SITE. IN ACCORDANCE WITH WASHINGTON STATE DEPARTMENT OF ECOLOGY CONSTRUCTION STORMWATER GENERAL PERMIT REQUIREMENTS, INCLUDING BUT NOT LIMITED TO SAMPLING AND REPORTING DISCHARGE FROM SITE. DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY CONTRACTOR'S ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES THAT MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES.
5. NO SEDIMENT SHALL BE TRACKED INTO THE STREET OR ONTO PAVED SURFACES. SEDIMENT SHALL BE REMOVED FROM TRUCKS AND EQUIPMENT PRIOR TO LEAVING THE SITE. IN THE EVENT OF FAILURE OF THE EROSION CONTROL SYSTEM RESULTING IN SEDIMENT BEING TRACKED ONTO PAVED SURFACES, THE CONTRACTOR SHALL IMMEDIATELY IMPLEMENT MEASURES TO CORRECT THE SITUATION, AND VACUUM STREET SWEEPING SHALL BE EMPLOYED ON AN EMERGENCY BASIS. IF VACUUM STREET SWEEPING VEHICLES ARE UTILIZED, THEY SHALL BE OF THE TYPE THAT ACTUALLY REMOVES THE SEDIMENT FROM THE PAVEMENT. WASHING OF THE STREETS WILL NOT BE ALLOWED WITHOUT PRIOR ISLAND COUNTY APPROVAL.
6. ALL TESC FACILITIES SHALL CONFORM TO THE BEST MANAGEMENT PRACTICES LISTED IN WASHINGTON STATE DEPARTMENT OF ECOLOGY STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON.
7. NO EXPOSED EARTH SHALL REMAIN UNSTABILIZED FOR MORE THAN 7 DAYS FROM MAY 1ST TO SEPTEMBER 30TH. FROM OCTOBER 1ST TO APRIL 30TH NO EXPOSED EARTH SHALL REMAIN UNSTABILIZED FOR MORE THAN 2 DAYS. STABILIZATION OF EXPOSED EARTH SHALL BE WITH APPROVED TESC METHODS (I.E. SEEDING, MULCHING, NETTING, EROSION BLANKETS, COVERING, ETC.) IN COORDINATION WITH THE CONTRACTOR PREPARED SWPPP.
8. NO SEDIMENT SHALL BE ALLOWED TO ENTER ANY STORMWATER CONVEYANCE SYSTEM WITHIN THE SITE, OR ADJACENT PROPERTIES. IN THE EVENT OF A FAILURE OF THE TESC PLAN THAT RESULTS IN SEDIMENT ENTERING A CATCH BASIN, THE CONTRACTOR SHALL REMOVE ALL SUCH SEDIMENT IMMEDIATELY.
9. DISTURBED SOILS THAT ARE EXPOSED TO SURFACE RUNOFF SHALL BE STABILIZED WITH TESC MEASURES.
10. THE TESC MEASURES SHOWN ON THE PLANS ARE FOR PERMITTING PURPOSES ONLY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL MEANS AND METHODS AND SEQUENCING OF TESC MEASURES AND ENSURING STORMWATER DISCHARGE REQUIREMENTS ARE MET.

EARTHWORK AND GRADING NOTES

1. PRIOR TO ANY SITE CONSTRUCTION (WHICH INCLUDES CLEARING/LOGGING, DEMOLITION, OR GRADING THE SITE), CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE CONTRACTOR'S SURVEYOR.
2. MATCH EXISTING GRADES AT EDGE CONDITIONS AND PROVIDE SMOOTH TRANSITION.
3. SLOPE FINISHED SURFACE A MINIMUM OF 2% AWAY FROM THE BUILDING FOR AT LEAST TWO FEET ON ALL SIDES OF THE BUILDING UNLESS NOTED OTHERWISE.
4. CONTRACTOR SHALL PERFORM ALL WORK WITHIN THE TREE PROTECTION ZONE/CRITICAL ROOT ZONE IN ACCORDANCE WITH SPECIFICATIONS.
5. BOTTOM OF WALL REFERS TO THE FINISH SURFACE GRADE AT THE BASE OF THE WALL. CONTRACTOR TO REFER TO STRUCTURAL PLANS FOR ADDITIONAL DEPTH REQUIREMENTS FOR FOOTING/SUBBASE AND TO PROVIDE ADEQUATE COVER OVER FOUNDATION.
6. PRIOR TO PLANTING AND MULCHING, COORDINATE FINE GRADING FOR SURFACE DRAINAGE WITH LANDSCAPE INSTALLATION. GRADE TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT BOTH SUBGRADE AND FINISH GRADE.

GENERAL SEWER AND DRAINAGE NOTES

1. UNLESS NOTED OTHERWISE ON PLANS, PIPE MATERIALS FOR SANITARY SIDE SEWER (SSS) AND SERVICE DRAIN (SD) SHALL BE PVC PIPE AND FITTINGS PER ASTM D3034, SDR35 WITH RUBBER GASKET JOINTS.
2. DUCTILE IRON PIPE SHALL BE PER ANSI A21.51 CLASS 50 WITH PUSH-ON JOINTS. FITTINGS FOR DUCTILE IRON PIPE SHALL BE DUCTILE PER ANSI A21.10 OR ANSI A21.53 WITH PUSH-ON JOINTS. GLANDS ON MECHANICAL JOINT PIPE AND FITTINGS SHALL BE DUCTILE.
3. PIPES WITH LESS THAN 18" COVER SHALL BE DUCTILE IRON PIPE. ROOF DOWNSPOUT TIGHTLINES AND BUILDING FOOTING DRAINS ARE EXCEPTIONS TO THIS REQUIREMENT AND MAY HAVE A MINIMUM OF 12 INCHES OF COVER UNLESS NOTED OTHERWISE ON PLANS.
4. TEES, CATCH BASIN CONNECTIONS, SIDE SEWERS, AND SERVICE DRAINS SHALL BE PLACED AT A MINIMUM SLOPE OF 2% AND A MAXIMUM SLOPE OF 50% UNLESS OTHERWISE INDICATED ON THE PLANS.
5. WHERE A NEW PIPE CLEARS AN EXISTING OR NEW UTILITY BY 6" OR LESS, POLYETHYLENE PLASTIC FOAM SHALL BE PLACED AS A CUSHION BETWEEN THE UTILITIES.
6. PROVIDE DUCTILE IRON PIPE SLEEVE WHERE SS, SSS, OR SD PASSES UNDERNEATH OR THROUGH ANY FOOTINGS, STEM WALLS, RETAINING WALLS, OR ROCKERIES.
7. PROVIDE SWEEPING TEES OR WYES AT ALL SS PIPE TO PIPE CONNECTION LOCATIONS.
8. COORDINATE CONNECTION OF SANITARY SIDE SEWER WITH MECHANICAL PLANS. PROVIDE FITTINGS AS REQUIRED TO MAKE CONNECTION.

STORM DRAINAGE NOTES

1. THE STORM DRAINAGE SYSTEM SHALL BE CONSTRUCTED ACCORDING TO THE APPROVED DRAINAGE CONTROL PLAN. ANY DEVIATION FROM THE APPROVED PLANS WILL REQUIRE WRITTEN APPROVAL FROM ISLAND COUNTY AND THE OWNER'S REPRESENTATIVE.
2. A COPY OF THE APPROVED DRAINAGE CONTROL PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
3. ALL REQUIRED STORM WATER FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO CONSTRUCTION OF IMPERVIOUS SURFACING UNLESS OTHERWISE APPROVED BY ISLAND COUNTY AND THE OWNER'S REPRESENTATIVE.
4. PROVIDE A MINIMUM OF 2.0% SLOPE ON ALL DRAINAGE AND DOWNSPOUT CONNECTION LINES, UNLESS NOTED OTHERWISE.
5. PROVIDE STORM DRAIN STENCILING IN PAVEMENT AT ALL STORM DRAIN CATCH BASINS, INLETS AND AREA DRAINS THAT ARE IN OR WITHIN ONE FOOT OF A PAVED AREA. STENCILING SHALL BE LOCATED IN ACCORDANCE WITH ISLAND COUNTY STENCILING REQUIREMENTS. "NO POLLUTANTS – DRAINS TO STREAM" OR AS DIRECTED BY AHJ.

STORMWATER INFILTRATION FACILITIES PROTECTION NOTES

1. STORMWATER INFILTRATION FACILITIES SHALL BE PROTECTED TO ENSURE FUNCTION FOR MEETING REQUIREMENTS OF PERMIT.
2. REDIRECT SHEET FLOW, BLOCK DRAIN INLETS, PROVIDE BYPASS PIPES AS NEEDED AND INSTALL FLOW DIVERSION MEASURES TO PREVENT CONSTRUCTION SILT LADEN WATER AND DEBRIS FROM ENTERING EXCAVATIONS AND FINISH SURFACES FOR INFILTRATION FACILITIES.
3. WHERE INFILTRATION FACILITIES ARE TO BE INSTALLED, THESE AREAS MUST BE PROTECTED AT ALL TIMES FROM BEING OVER COMPACTED. IF AREAS BECOME COMPACTED, REMEDIATE AND TILL SOIL IN ACCORDANCE WITH OWNER'S GEOTECHNICAL ENGINEER REPRESENTATIVE REQUIREMENTS AT NO ADDITIONAL COST TO OWNER IN ORDER TO RESTORE INFILTRATION.

HORIZONTAL AND VERTICAL CONTROL NOTES

*PROVIDED BY HARMSEN

DATUM: NAVD 88

BENCHMARKS: FOUND MONUMENT IN CASE LOCATED ALONG THE CENTERLINE MAXWELTON ROAD APPROXIMATELY 600 FEET NORTH OF THE NORTHERLY PARK ENTRANCE. EL=212.29'.

BASIS OF BEARING: N02°03'28"E BETWEEN FOUND MONUMENTS AT THE EAST QUARTER CORNER OF SECTION 10, TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M. AND THE EAST QUARTER CORNER OF SECTION 15, TOWNSHIP 29 NORTH, RANGE 3 EAST, W.M.

ELECTRONIC INFORMATION TRANSFER AGREEMENT (EITA)

AN AUTOCAD® CIVIL 3D® FILE (FOR THE SOLE PURPOSE OF 2D HORIZONTAL LAYOUT) WILL BE PROVIDED TO THE CONTRACTOR AT THE BEGINNING OF THE PROJECT'S CONSTRUCTION. THE AUTOCAD FILE WILL PROVIDE FOR HORIZONTAL LAYOUT OF UTILITY SERVICES WITHIN CIVIL PROJECT AREA, GRADING CONTOURS, STRIPING, AND SPOT ELEVATIONS AND/OR PAVING (WALKS, DRIVES) SHOWN ON PLAN VIEW OF THE CIVIL PLANS. PRIOR TO RELEASE OF AUTOCAD FILE, CONTRACTOR WILL BE REQUIRED TO SIGN AN ELECTRONIC INFORMATION TRANSFER AGREEMENT (EITA) FORM FROM MIG. SUBMIT REQUEST FOR MIG'S EITA FORM THROUGH THE OWNER'S PROJECT CONTACT ESTABLISHED FOR THE JOB. OWNER'S PROJECT CONTACT WILL THEN NOTIFY MIG'S PROJECT MANAGER FOR A COPY OF THE EITA FORM. AFTER MIG HAS RECEIVED THE SIGNED EITA FORM, ALLOW UP TO SEVEN (7) BUSINESS DAYS FOR PREPARATION OF THE FILE BY MIG. IF DISCREPANCIES ARE OBSERVED BETWEEN THE AUTOCAD FILE PROVIDED AND INFORMATION SHOWN ON THE HARD COPY OF THE CONSTRUCTION DOCUMENTS, NOTIFY PROJECT CONTACT BY SUBMITTING A RFI.

PLEASE CALL 811
3 Working Days
BEFORE YOU DIG

arc
architecture resource collaborative
119 MAIN ST, STE #200
SEATTLE, WA 98104-2579
(206) 322-3322

MIG
119 PINE STREET, SUITE 400
SEATTLE, WA 98101
T 206.223.0326
www.migcom.com

BARBARA VANDEREN — STATE OF WASHINGTON — PROFESSIONAL ENGINEER
05/23/2025

S WHIDBEY PARKS & REC AQUATIC REC CENTER

5491 MAXWELTON RD
LANGLEY, WA 98260

South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE

Rev #	Date	Description

CONTENTS:

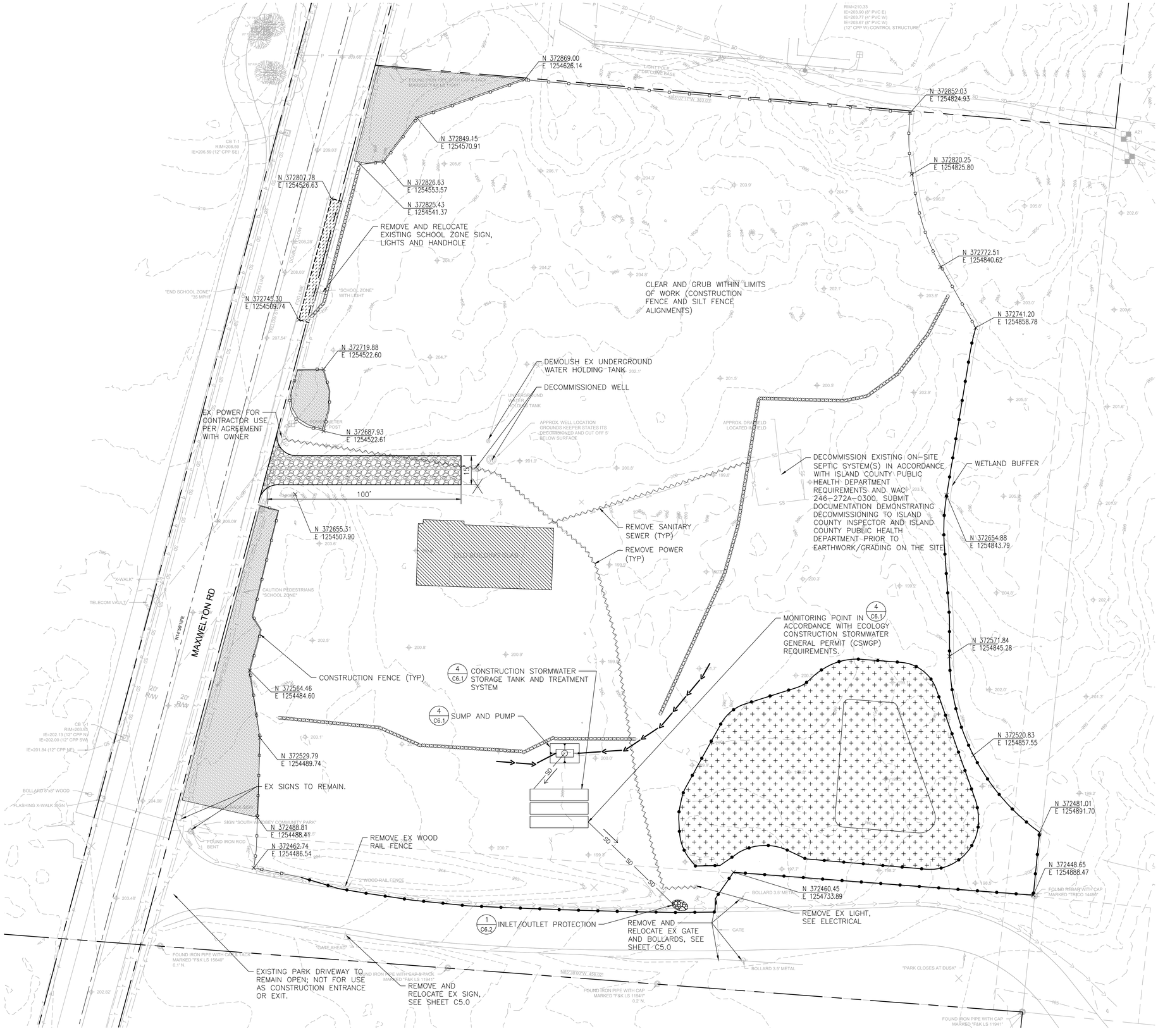
CIVIL NOTES

SCALE: **As indicated**
DRAWN: **JA**
CHECKED: **BVDF**
PROJECT NO: 15261

SHEET:

C1.0

Plotted: May 21, 2025 – 8:21:35am By: jandersen
File: Z:\Survey\Jacobs\2_Projects\15200s\15261 Whidbey Island Aquatic Center\CAD\Current\SWAC_C1.0-notes-key Layout: C1.0



N

20' 10' 0 20' 40'

Scale In Feet

LEGEND

- PROPERTY LINE
- HIGH VISIBILITY CONSTRUCTION FENCE PER WSDOT STD PLAN I-10.10-01
- HIGH VISIBILITY SILT FENCE WITH BACKUP SUPPORT PER WSDOT STD PLAN I-30.16-01
- STABILIZED CONSTRUCTION ENTRANCE PER WSDOT STD PLAN I-80.10-02
- TEMPORARY INTERCEPTOR SWALE (5 / C6.1)
- STRAW WATTLE PER WSDOT STD PLAN I-30.30-02
- SAWCUT
- FOUNDATION AND CONCRETE SLAB DEMOLITION
- ASPHALT REMOVAL
- INFILTRATION PROTECTION AREA, SEE NOTE 1
- UTILITY LINE REMOVAL
- PROTECT EX TREES IN PLACE SEE LANDSCAPE

NOTES

1. SEE SHEET C1.0 FOR NOTES INCLUDING STORM WATER INFILTRATION FACILITIES PROTECTION NOTES.
2. EROSION CONTROL PER ISLAND COUNTY CODE SECTION 11.02.330.
3. CATCH BASIN PROTECTION PER WSDOT STD PLAN I-40.10-00 OR WSDOT STD PLAN 1-40.20-00.

PLEASE CALL 811
3 Working Days
BEFORE YOU DIG

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BARBARA VANDEREN
STATE OF WASHINGTON
PROFESSIONAL ENGINEER
05/23/2025

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South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE

Rev #	Date	Description

CONTENTS:

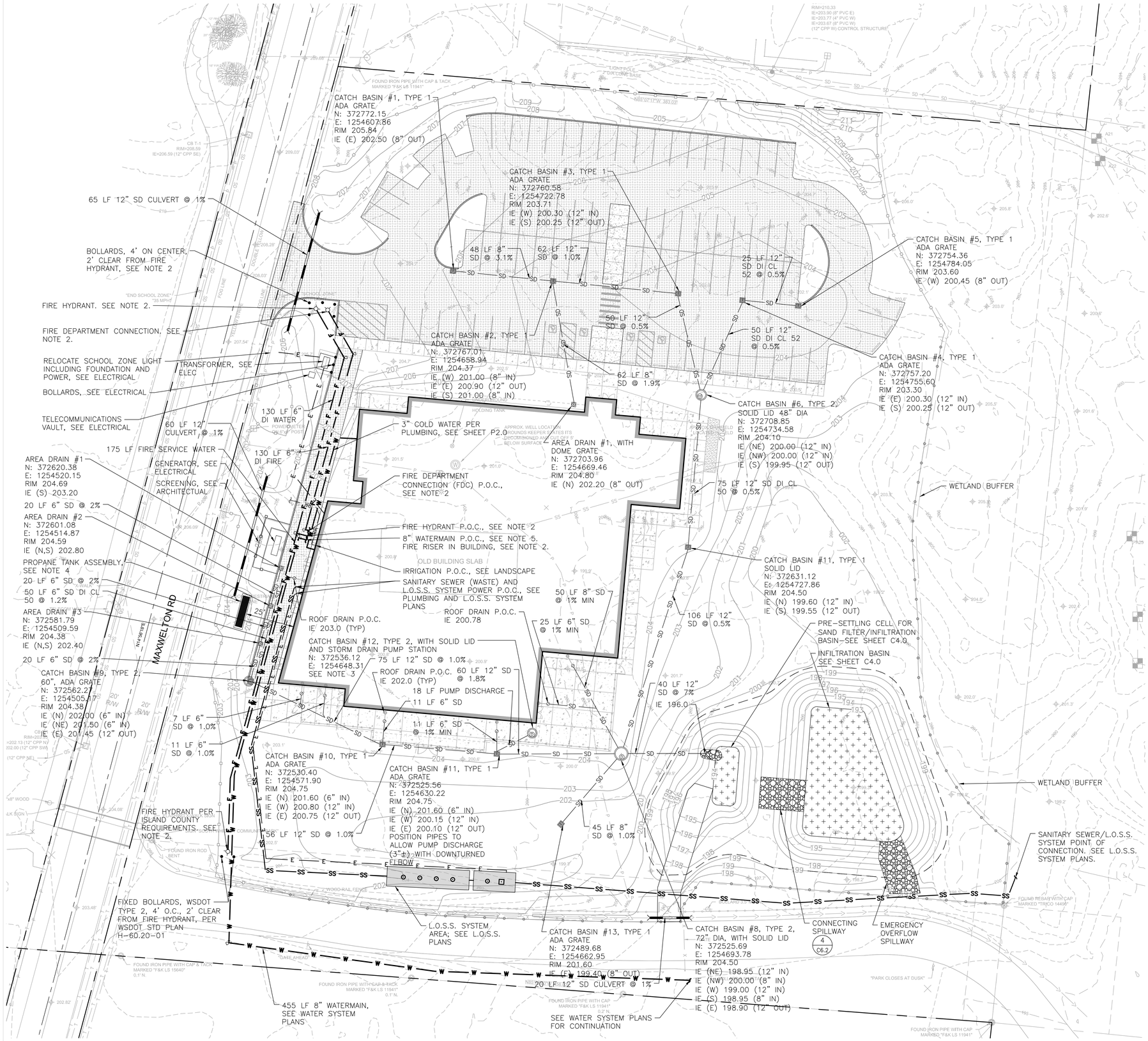
EROSION CONTROL AND DEMOLITION PLAN

SCALE: As indicated
DRAWN: JA
CHECKED: BVDF
PROJECT NO: 15261

SHEET:

C2.0

Plotted: May 21, 2025 – 8:11:55am By: jandersen
File: Z:\Source\Layouts\1_Projects\15200s\15261 Whidbey Island Aquatic Center\240\Current\SMC_C2.0-Erosc-demo.dwg Layout: C2.0


CATCH BASIN #1, TYPE 1
ADA GRATE
N: 372772.15
E: 1254607.86
RIM 205.84
IE (E) 202.50 (8" OUT)
CATCH BASIN #3, TYPE 1
ADA GRATE
N: 372760.58
E: 1254722.78
RIM 203.71
IE (W) 200.30 (12" IN)
IE (S) 200.25 (12" OUT)
65 LF 12" SD CULVERT @ 1%
BOLLARDS, 4' ON CENTER, 2' CLEAR FROM FIRE HYDRANT, SEE NOTE 2
FIRE HYDRANT. SEE NOTE 2.
FIRE DEPARTMENT CONNECTION, SEE NOTE 2.
RELOCATE SCHOOL ZONE LIGHT INCLUDING FOUNDATION AND POWER, SEE ELECTRICAL
TRANSFORMER, SEE ELEC
BOLLARDS, SEE ELECTRICAL
TELECOMMUNICATIONS VAULT, SEE ELECTRICAL
60 LF 12" CULVERT @ 1%
175 LF FIRE SERVICE WATER
GENERATOR, SEE ELECTRICAL
SCREENING, SEE ARCHITECTUAL
130 LF 6" DI WATER
130 LF 6" DI FIRE
AREA DRAIN #1
N: 372620.38
E: 1254520.15
RIM 204.69
IE (S) 203.20
20 LF 6" SD @ 2%
AREA DRAIN #2
N: 372601.08
E: 1254514.87
RIM 204.59
IE (N,S) 202.80
PROPANE TANK ASSEMBLY, SEE NOTE 4
20 LF 6" SD @ 2%
50 LF 6" SD DI CL 50 @ 1.2%
AREA DRAIN #3
N: 372581.79
E: 1254509.59
RIM 204.38
IE (N,S) 202.40
20 LF 6" SD @ 2%
CATCH BASIN #9, TYPE 2, 60", ADA GRATE
N: 372562.27
E: 1254505.17
RIM 204.38
IE (N) 202.00 (6" IN)
IE (NE) 201.50 (6" IN)
IE (E) 201.45 (12" OUT)
MAXWELTON RD
48 LF 8" SD @ 3.1%
62 LF 12" SD @ 1.0%
CATCH BASIN #2, TYPE 1
ADA GRATE
N: 372767.01
E: 1254658.94
RIM 204.37
IE (W) 201.00 (8" IN)
IE (E) 200.90 (12" OUT)
IE (S) 201.00 (8" IN)
62 LF 8" SD @ 1.9%
50 LF 12" SD @ 0.5%
25 LF 12" SD DI CL 52 @ 0.5%
CATCH BASIN #5, TYPE 1
ADA GRATE
N: 372754.36
E: 1254784.05
RIM 203.60
IE (W) 200.45 (8" OUT)
50 LF 12" SD DI CL 52 @ 0.5%
CATCH BASIN #4, TYPE 1
ADA GRATE
N: 372757.20
E: 1254755.60
RIM 203.30
IE (E) 200.30 (12" IN)
IE (S) 200.25 (12" OUT)
CATCH BASIN #6, TYPE 2, SOLID LID 48" DIA
N: 372708.85
E: 1254734.58
RIM 204.10
IE (NE) 200.00 (12" IN)
IE (NW) 200.00 (12" IN)
IE (S) 199.95 (12" OUT)
3" COLD WATER PER PLUMBING, SEE SHEET P2.0
AREA DRAIN #1, WITH DOME GRATE
N: 372703.96
E: 1254669.46
RIM 204.80
IE (N) 202.20 (8" OUT)
FIRE DEPARTMENT CONNECTION (FDC) P.O.C., SEE NOTE 2
FIRE HYDRANT P.O.C., SEE NOTE 2
8" WATERMAIN P.O.C., SEE NOTE 5. FIRE RISER IN BUILDING, SEE NOTE 2.
OLD BUILDING SLAB
IRRIGATION P.O.C., SEE LANDSCAPE
SANITARY SEWER (WASTE) AND L.O.S.S. SYSTEM POWER P.O.C., SEE PLUMBING AND L.O.S.S. SYSTEM PLANS
75 LF 12" SD DI CL 50 @ 0.5%
WETLAND BUFFER
CATCH BASIN #11, TYPE 1
SOLID LID
N: 372631.12
E: 1254727.86
RIM 204.50
IE (N) 199.60 (12" IN)
IE (S) 199.55 (12" OUT)
106 LF 12" SD @ 0.5%
50 LF 8" SD @ 1% MIN
ROOF DRAIN P.O.C. IE 203.0 (TYP)
ROOF DRAIN P.O.C. IE 200.78
25 LF 6" SD @ 1% MIN
CATCH BASIN #12, TYPE 2, WITH SOLID LID AND STORM DRAIN PUMP STATION
N: 372536.12
E: 1254648.31
SEE NOTE 3
75 LF 12" SD @ 1.0%
ROOF DRAIN P.O.C. IE 202.0 (TYP)
60 LF 12" SD @ 1.8%
18 LF PUMP DISCHARGE
11 LF 6" SD
11 LF 6" SD @ 1% MIN
7 LF 6" SD @ 1.0%
11 LF 6" SD @ 1.0%
PRE-SETTLING CELL FOR SAND FILTER/INFILTRATION BASIN-SEE SHEET C4.0
INFILTRATION BASIN SEE SHEET C4.0
40 LF 12" SD @ 7% IE 196.0
CATCH BASIN #10, TYPE 1
ADA GRATE
N: 372530.40
E: 1254571.90
RIM 204.75
IE (N) 201.60 (6" IN)
IE (W) 200.80 (12" IN)
IE (E) 200.75 (12" OUT)
CATCH BASIN #11, TYPE 1
ADA GRATE
N: 372525.56
E: 1254630.22
RIM 204.75
IE (N) 201.60 (6" IN)
IE (W) 200.15 (12" IN)
IE (E) 200.10 (12" OUT)
POSITION PIPES TO ALLOW PUMP DISCHARGE (3"±) WITH DOWNTURNED ELBOW
56 LF 12" SD @ 1.0%
45 LF 8" SD @ 1.0%
WETLAND BUFFER
SANITARY SEWER/L.O.S.S. SYSTEM POINT OF CONNECTION. SEE L.O.S.S. SYSTEM PLANS.
FIRE HYDRANT PER ISLAND COUNTY REQUIREMENTS. SEE NOTE 2.
FIXED BOLLARDS, WSDOT TYPE 2, 4' O.C., 2' CLEAR FROM FIRE HYDRANT, PER WSDOT STD PLAN H-60.20-01
L.O.S.S. SYSTEM AREA; SEE L.O.S.S. PLANS
CATCH BASIN #13, TYPE 1
ADA GRATE
N: 372489.68
E: 1254662.95
RIM 201.60
IE (E) 199.40 (8" OUT)
CATCH BASIN #8, TYPE 2, 72" DIA, WITH SOLID LID
N: 372525.69
E: 1254693.78
RIM 204.50
IE (NE) 198.95 (12" IN)
IE (NW) 200.00 (8" IN)
IE (W) 199.00 (12" IN)
IE (S) 198.95 (8" IN)
IE (E) 198.90 (12" OUT)
CONNECTING SPILLWAY
EMERGENCY OVERFLOW SPILLWAY
20 LF 12" SD CULVERT @ 1%
455 LF 8" WATERMAIN, SEE WATER SYSTEM PLANS
SEE WATER SYSTEM PLANS FOR CONTINUATION
"PARK CLOSES AT DUSK"
FOUND IRON PIPE WITH CAP & TACK MARKED "F&K LS 11941"
FOUND IRON PIPE WITH CAP & TACK MARKED "F&K LS 15640"
FOUND REBAR WITH CAP MARKED "TPCO 14458"
FOUND IRON PIPE WITH CAP MARKED "F&K LS 11941"
FOUND IRON ROD BENT
WOOD RAIL FENCE
CHAIN LINK FENCE
"END SCHOOL ZONE" "35 MPH"
"SCHOOL ZONE" "35 MPH"
"SPEED LIMIT" "35 MPH"
"SPEED LIMIT" "25 MPH"
"SCHOOL" "SPEED LIMIT" "25 MPH"
"SCHOOL" "SPEED LIMIT" "35

N
20' 10' 0 20' 40'
Scale In Feet
LEGEND
PROPERTY LINE
PROPOSED BUILDING
LIMIT OF WORK/TREE PROTECTION/CONSTRUCTION FENCE
310
309
PROPOSED CONTOURS
XXX.XX
SPOT ELEVATION
XXX.XX*
ACCESSIBLE SPOT ELEVATION, SEE NOTE 1
AR AR AR AR AR
ACCESSIBLE ROUTE OF TRAVEL, SEE NOTE 1
X.X%
SLOPE ARROW, SEE NOTE 1
INFILTRATION BOTTOM AREA, SEE NOTE 1
PERMANENT FENCE, SEE LANDSCAPE
TC XXX.XX
BC XXX.XX
TOP OF CURB (TC) ELEVATION, BOTTOM OF CURB (BC) ELEVATION
NOTES
1. SEE SHEET C1.0 FOR NOTES INCLUDING GRADING, STORMWATER INFILTRATION FACILITIES PROTECTION NOTES AND ACCESSIBILITY NOTES.
3 C6.2 ROAD APPROACH (DRIVEWAY) PROFILE
IE 206.3
MATCH EX (TYP)
IE 205.4
PAD ELEV 207.50
PAD ELEV 205.35
PAD ELEV 205.30
IE 203.9
IE 203.3
PROPANE TANK ASSEMBLY LOCATION TBD
RIM 205.84
RIM 204.37
RIM 203.71
RIM 203.30
RIM 203.60
RIM 204.10
RIM 204.50
RIM 204.69
RIM 204.59
RIM 204.49
RIM 204.38
RIM 204.75
RIM 204.75
RIM 204.50
RIM 201.60
RIM 203.0
SEE L.O.S.S. SYSTEM PLANS (TYP)
RIM 202.8
RIM 202.5
RIM 202.5
RIM 202.2
RIM 202.3
IE 197.1±
IE 196.9±
GATE
20 LF 12" CULVERT
IE 196.0
CONNECTING SPILLWAY TOP ELEV 198.0
EMERGENCY SPILLWAY TOP ELEV 198.5
MAX 2.5H:1V (TYP)
WETLAND BUFFER
WETLAND BUFFER
BUILDING FFE 205.00
OLD BUILDING SLAB
PRE-SETTLING CELL FOR SAND FILTER/INFILTRATION BASIN 4 C6.2
SAND FILTER/INFILTRATION BASIN 4 C6.2
4 C6.2
MAXWELTON RD
EX NATURAL DRAINAGE PATH AT PARK ENTRANCE DRIVE
GRADE BREAK
FOUND IRON PIPE WITH CAP & TACK MARKED "F&K LS 11941"
FOUND IRON PIPE WITH CAP & TACK MARKED "F&K LS 15640" 0.1' N.
FOUND IRON PIPE WITH CAP & TACK MARKED "F&K LS 11941" 0.1' N.
FOUND IRON PIPE WITH CAP MARKED "F&K LS 11941" 0.2' N.
FOUND REBAR WITH CAP MARKED "TRICO 14496"
FOUND IRON PIPE WITH CAP MARKED "F&K LS 11941"
"END SCHOOL ZONE" "35 MPH"
"SOUTH WHIDBEY COMMUNITY PARK"
"PARK CLOSES AT DUSK"
BOLLARD 3.5' METAL
WOOD RAIL FENCE
FLASHING X-WALK SIGN
POWER/TEL
TELECOM VAULT
X-WALK
CB T-1 RIM=205.59 IE=206.59 (12" CPP SE)
CB T-1 RIM=203.8 02.13 (12" CPP N) 1.00 (12" CPP SW) 2" CPP NE)
RIM=210.33 IE=203.90 (8" PVC E) IE=203.77 (4" PVC W) IE=203.67 (8" PVC W) (12" CPP W) CONTROL STRUCTURE
LIGHTPOLE 2' DIA CONC BASE
APPROX. WELL LOCATION GROUNDS KEEPER STATES ITS DECOMMISSIONED AND CUT OFF 5' BELOW SURFACE
APPROX. DRAINFIELD LOCATION
PROPANE TANK HOLDING TANK
N85°07'13"W 383.03'
N85°08'00"W 356.02'
S14°56'49"E
20' R/W
TC 206.80 BC 206.30
TC 206.90 BC 206.40
TC 206.70 BC 206.20
TC 208.30 BC 207.80
TC 207.50 BC 207.00
TC 205.50 BC 205.00
TC 205.42 BC 204.84
TC 205.10 BC 204.38
TC 204.75 BC 204.25
TC 204.55 BC 204.05
TC 204.75 BC 204.25
TC 204.55 BC 204.05
TC 199.1 BC 198.9
TC 199.1 BC 198.9
TC 199.1 BC 198.9

LEGEND

- PROPERTY LINE
- PROPOSED BUILDING
- LIMIT OF WORK/TREE PROTECTION/CONSTRUCTION FENCE
- INFILTRATION BOTTOM AREA, SEE NOTE 1.
- HOT MIX ASPHALT (HMA) PAVEMENT (1/C6.4)
- CEMENT CONCRETE WALK (VEHICULAR) (2/C6.4)
- EXTRUDED CONCRETE CURB (4/C6.4)
- WHEEL STOPS (6/C6.4)
- ADA STALL MARKING (5/C6.4)
- ACCESSIBLE ROUTE, SEE NOTE 1.
- SIGN TYPE ST-1 PER WSDOT STD PLAN G-24.50-05, SEE SIGN SCHEDULE
- BOLLARD, FIXED, WSDOT TYPE 2 PER WSDOT STD PLAN H-60.20-01

NOTES

1. SEE SHEET C1.0 FOR NOTES INCLUDING GRADING, STORMWATER INFILTRATION FACILITIES PROTECTION NOTES, AND ACCESSIBILITY NOTES.
2. SEE LANDSCAPE SHEETS FOR PEDESTRIAN PAVING, JOINTING PLAN AND DETAILS.
3. SEE LANDSCAPE SHEETS FOR LANDSCAPING INCLUDING BUT NOT LIMITED TO AMENDED SOILS.

SIGN SCHEDULE

#	EA	DESCRIPTION
1	4	ACCESSIBLE PARKING "RESERVED PARKING STATE DISABLED PARKING PERMIT REQUIRED", MUTCD R7-801
2	4	"VAN ACCESSIBLE", MUTCD R7-801A
3	3	"NO PARKING", MUTCD R8-3A
4	1	"SERVICE VEHICLES ONLY"

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05/23/2025

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South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE

Rev #	Date	Description

CONTENTS:

PAVING PLAN

SCALE: As indicated
DRAWN: JA
CHECKED: BVDF
PROJECT NO: 15261

SHEET:

C5.0

Plotted: May 21, 2025 - 8:22:37am By: jandersen
File: Z:\Shared\Jacobs\1_Projects\152061\15261 Whidbey Island Aquatic Center\CAD\Current\SWAC_C5.0-paving.dwg Layout: C5.0

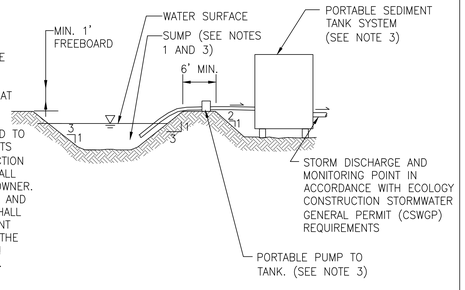
Not Used 1

Not Used 2

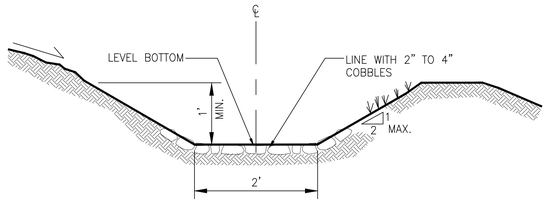
Not Used 3

NOTES:

1. CONSTRUCT BY EXCAVATION AND BUILD BERMS AS NEEDED TO ACHIEVE STORAGE DEPTH.
2. REMOVE ACCUMULATED SEDIMENT AS REQUIRED DURING CONSTRUCTION, AND AT END OF PROJECT.
3. CONTRACTOR SHALL PROVIDE PORTABLE STORMWATER SEDIMENT TANK AS NEEDED TO MEET TESC WATER QUALITY REQUIREMENTS PER CONTRACTOR'S ECOLOGY CONSTRUCTION STORMWATER GENERAL PERMIT. THIS SHALL BE DONE AT NO ADDITIONAL COST TO OWNER. CONTRACTOR SHALL SIZE PUMP, TANKS, AND OTHER TESC FACILITIES. CONTRACTOR SHALL DETERMINE LOCATION OF TESC TREATMENT FACILITIES AND MAKE ADJUSTMENTS TO THE SYSTEM TO RESPOND TO CONSTRUCTION SEQUENCING AND MEANS AND METHODS.



Schematic Construction Stormwater Storage Tank and Treatment System 4



Temporary Interceptor Swale 5

Not Used 6

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05/23/2025

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CONTENTS:

CIVIL DETAILS

SCALE: As indicated
DRAWN: JA
CHECKED: BVDF
PROJECT NO: 15261

SHEET:

C6.1

Plotted: May 21, 2025 – 8:22:53am By: jandersen
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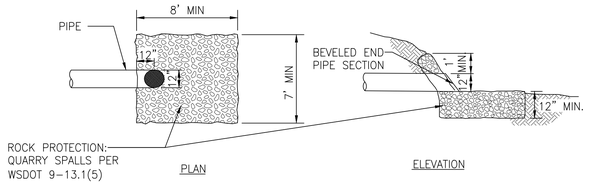


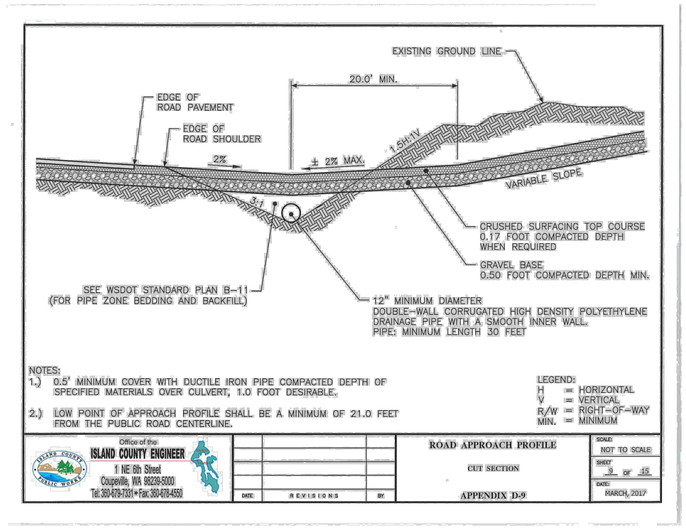
Inlet/Outlet Protection NTS 1

SIEVE NUMBER	PERCENT PASSING
4	95-100
8	70-100
16	40-90
30	25-75
50	2-25
100	<4
200	<2
SOURCE: (KING COUNTY DEPARTMENT OF NATURAL RESOURCES, 1998)	

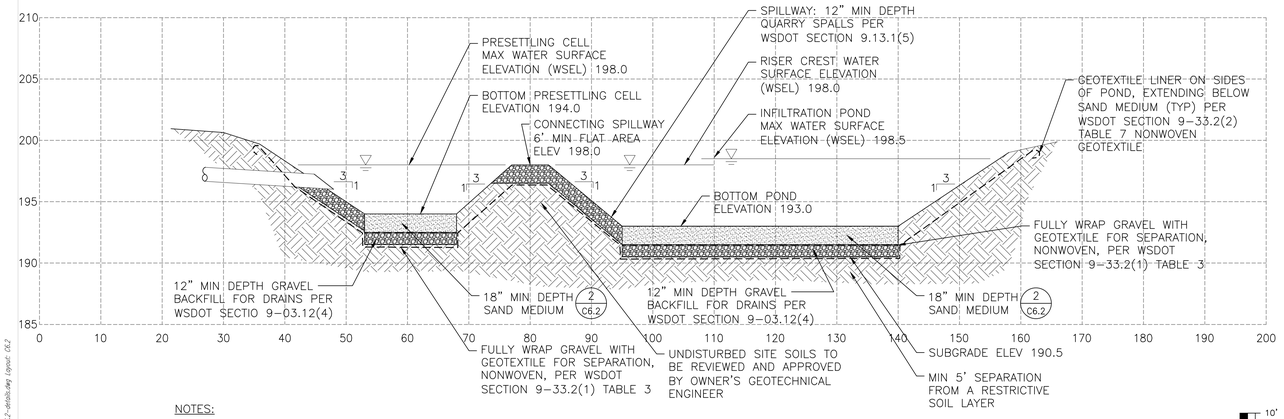
NOTES:

1. PER ECOLOGY SWMMWW VOLUME V, CHAPTER 6, BMP T8.10, TABLE V-6.1.
2. NOTE: STANDARD BACKFILL FOR SAND DRAINS PER WSDOT STD. SPEC. 9-03.13 DOES NOT MEET THE SAND MEDIUM SPECIFICATION PER SWMMWW.

Sand Medium NTS 2

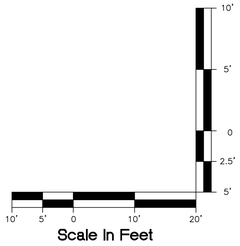


Road Approach Profile NTS 3



NOTES:

1. RESTORE SIDES AND BOTTOM OF PRESETTLING CELL AND INFILTRATION POND WITH BIODEGRADABLE EROSION CONTROL BLANKET PER WSDOT 9-14.6(2)A AND HYDROSEED WITH LONG TERM MULCH PER WSDOT 9-14.5(2)A.
2. SEED MIX FOR BOTTOM AND SIDES OF PRESETTLING CELL AND INFILTRATION POND TO BE "LOW GROW" SEED MIX PER ECOLOGY:
   40% OF MIX: DWARF TALL FESCUE
   30% OF MIX: DWARF PERENNIAL RYE "BARCLAY"
   25% OF MIX: RED FESCUE



HORIZONTAL SCALE: 1"=10'; VERTICAL SCALE: 1"=5'
Sand Filter/Infiltration Basin Section 4

Not Used NTS 9

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05/23/2025

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CONTENTS:

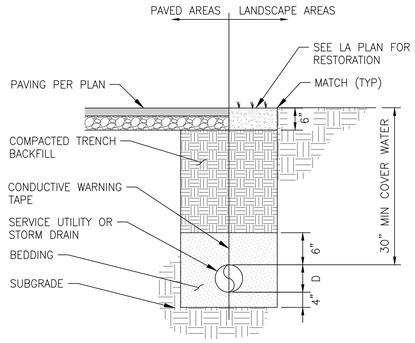
CIVIL DETAILS

SCALE: As indicated
DRAWN: JA
CHECKED: BVDF
PROJECT NO: 15261

SHEET:

C6.2

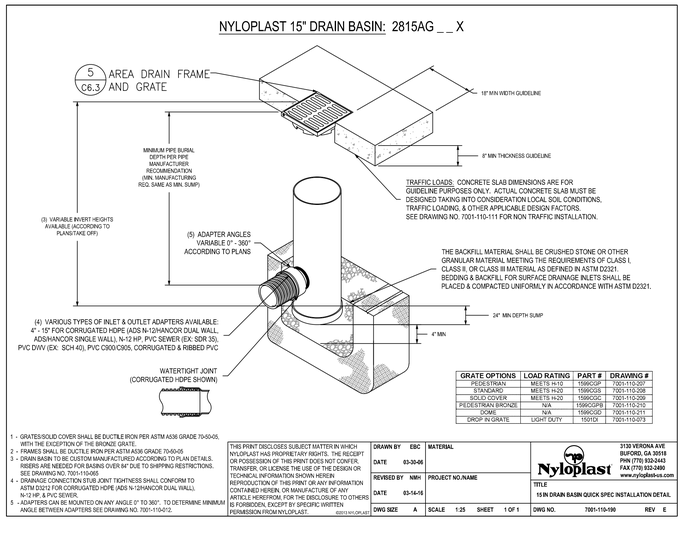
Plotted: May 21, 2025 – 9:32:05am By: jandersen
File: Z:\Survey\Locate\1_Projects\15200s\15261 Whidbey Island Aquatic Center\CAD\Current\SWAC_C6.2-details.dwg Layout: C6.2



NTS
Typical Trench Section 1

NTS
Not Used 2

NTS
Not Used 3



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H10	1599CGP	7001-110-207
STANDARD	MEETS H-20	1599CGS	7001-110-208
SOLID COVER	MEETS H-20	1599CGC	7001-110-209
PEDESTRIAN BRONZE	N/A	1599CGPB	7001-110-210
DOME	N/A	1599CGD	7001-110-211
DROP IN GRATE	LIGHT DUTY	1501DI	7001-110-073

1. - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
2. - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
3. - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RIBERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
4. - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
5. - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

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DRAWN BY	EBC	MATERIAL	
DATE	03-30-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-14-16		
DWG SIZE	A	SCALE 1:25	SHEET 1 OF 1

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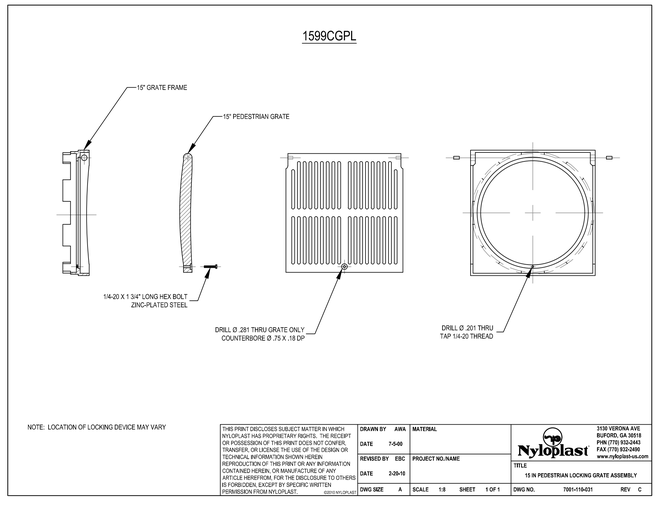
TITLE
15 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-190 REV E

NTS
Area Drain 4



NOTE: LOCATION OF LOCKING DEVICE MAY VARY

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DRAWN BY	AWA	MATERIAL	
DATE	7-5-00		
REVISED BY	EBC	PROJECT NO./NAME	
DATE	2-25-15		
DWG SIZE	A	SCALE 1:8	SHEET 1 OF 1

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FAX (770) 932-2490
www.nyloplast-us.com

TITLE
15 IN PEDESTRIAN LOCKING GRATE ASSEMBLY

DWG NO. 7001-110-031 REV C

NTS
Area Drain Frame and Grate 5

NTS
Not Used 6

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BARBARA VANDEREN
STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER
05/23/2025

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AQUATIC REC CENTER

5491 MAXWELTON RD
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South Whidbey
PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE

Rev #	Date	Description

CONTENTS:

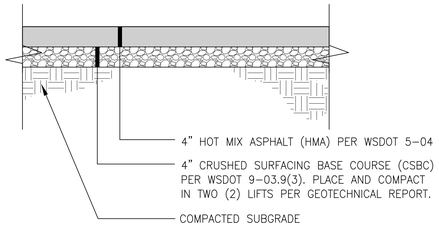
CIVIL DETAILS

SCALE: As indicated
DRAWN: JA
CHECKED: BVDF
PROJECT NO: 15261

SHEET:

C6.3

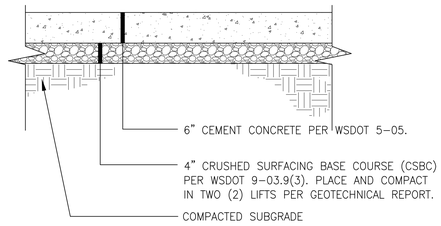
Plotted: May 21, 2025 – 8:32:16am By: jandersen
File: Z:\Survey\Jobs\1_Projects\15261 Whidbey Island Aquatic Center\240\Current\SWAC_C6.3 - details.dwg Layout: C6.3



NOTES:

1. DEPTHS SHOWN ARE FOR COMPACTED DEPTHS.

Hot Mix Asphalt (HMA) Pavement NTS 1

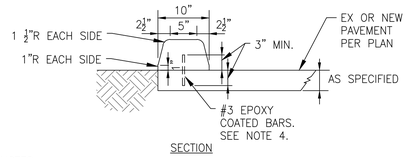


NOTES:

1. DEPTHS SHOWN ARE FOR COMPACTED DEPTHS.
2. JOINTS PER WSDOT 5-05.3(8) AND WSDOT STD PLAN F-30.10-04.
3. REFER TO LANDSCAPE SHEETS FOR SCORING AND JOINT PATTERN.

Cement Concrete Walk (Vehicular) NTS 2

Not Used NTS 3

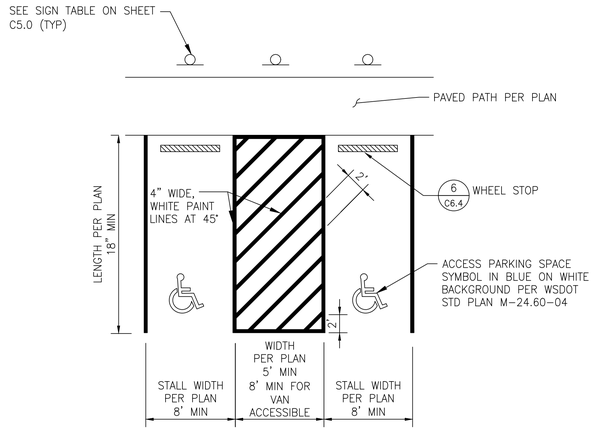


SECTION

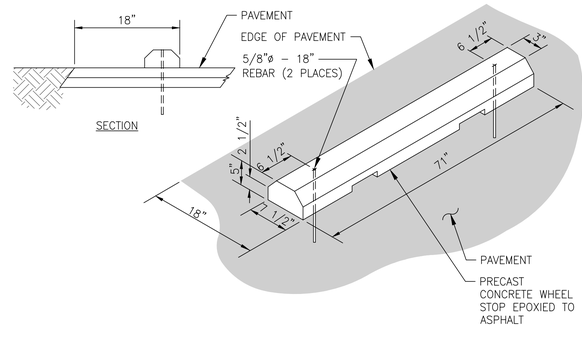
NOTES

1. CUT JOINTS SHALL BE PLACED ONLY AT POINTS OF TANGENCY ON DRIVEWAY RETURNS AND WHERE EXPANSION JOINTS OCCUR IN THE PAVEMENT SLAB.
2. FINISHING, CURING, FORM WORK, PLACEMENT AND MATERIALS SHALL CONFORM TO WSDOT STANDARD SPECIFICATIONS.
3. AT CONTRACTOR'S OPTION CONCRETE CURBS MAY BE ANCHORED TO THE EXISTING PAVEMENT EITHER BY PLACING STEEL TIE BARS 1 FOOT ON EACH SIDE OF EVERY JOINT OR BY USING AN ADHESIVE. THE ADHESIVE SHALL MEET THE REQUIREMENTS OF SECTION 9-26 OF WSDOT STANDARD SPECIFICATIONS FOR TYPE II EPOXY RESIN.
4. CURB JOINTS TO BE EITHER CUT/SAWED AT ¼" MAX WIDTH. MAXIMUM 15' DUMMY JOINT SPACING. ANCHOR BARS TO BE SET AT 12" FROM CURB JOINT ON EACH SIDE OF JOINT.

Extruded Concrete Curb NTS 4



ADA Stall Marking NTS 5



Wheel Stop NTS 6

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05/23/2025

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South Whidbey PARKS & RECREATION DISTRICT

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ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE

Rev #	Date	Description

CONTENTS:

CIVIL DETAILS

SCALE: As indicated
DRAWN: JA
CHECKED: BVDF
PROJECT NO: 15261

SHEET:

C6.4

Plotted: May 21, 2025 – 9:32:25am By: jandersen
File: Z:\Shared\Jobsites\2_Projects\15200s\15261 Whidbey Island Aquatic Center\240\Current\SMAC_C6.4-details.dwg Layout: C6.4

MATERIAL LEGEND

- HMA PAVING (REFER TO CIVIL)
- 4" DEPTH FIBER REINFORCED CONC. PAVING OVER 4" COMP. DEPTH CSBC (1 / L2.0)
- CONCRETE PAVING AT VEHICULAR ZONES (REFER TO CIVIL)
- CRUSHED ROCK SURFACING (4 / L2.0)
- GRASSPAVE (5 / L2.0)
- RIVER ROCK SEE LANDSCAPE PLANS
- PLANTING / MULCH AREA SEE LANDSCAPE PLANS
- TURF GRASS SEE LANDSCAPE PLANS
- FESCUE MEADOW SEE LANDSCAPE PLANS
- HYDROSEED SEE LANDSCAPE PLANS

GENERAL NOTES

1. REFER TO TOPOGRAPHIC SURVEY FOR EXISTING FEATURES AND ASSOCIATED LEGEND.
2. CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION. CONTACT 'CALL BEFORE YOU DIG' AT (800) 424-5555 FOR FIELD LOCATION ASSISTANCE WITHIN PUBLIC RIGHT-OF-WAY. RETAIN A PRIVATE LOCATOR SERVICE TO LOCATE UTILITIES WITHIN THE PROJECT SITE.
3. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN ON PLANS.

ABBREVIATIONS

CONC.	CONCRETE
CSBC	CRUSHED SURFACE BASE COURSE
HMA	HOT MIX ASPHALT
O.C.	ON CENTER
L.F	LINEAR FEET
SPEC.	SPECIFICATIONS
TYP.	TYPICAL
ADA	AMERICANS WITH DISABILITIES ACT

KEYNOTES

1. PROPERTY LINE
2. WETLAND BUFFER
3. WETLAND
4. EXISTING TREES PROTECT IN PLACE
5. SERVICE DRIVE - REFER TO CIVIL
6. ADA PARKING - REFER TO CIVIL
7. WHEEL STOP - REFER TO CIVIL
8. TRASH & RECYCLE AREA
9. TRANSFORMER OR GENERATOR - REFER TO ELECTRICAL
10. STORMWATER BASIN - REFER TO CIVIL
11. ROOF OVERHANG - REFER TO ARCHITECTURAL
12. EXPANSION JOINT (TYP) - REFER TO 1 / L2.0
13. CONTROL JOINT (TYP) - REFER TO 1 / L2.0
14. REMOVABLE BOLLARD (QTY = 2) - REFER TO SPEC. 32 33 00.

NORTH

0 10 20 40

GRAPHIC SCALE

CADD filename: R:\DRAWINGS\5812 – SOUTH WHIDBEY AQUATIC CENTER\08 – 100% SET\5812 L1.0.DWG || Plotted: 5.23.25–18:47 By:(sjensen)

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REGISTERED LANDSCAPE ARCHITECT STATE OF WASHINGTON JAMES A. JENSEN 24305 LICENSE NO. LAR DATE 05/JAN/2007

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REVISION SCHEDULE		
Rev #	Date	Description

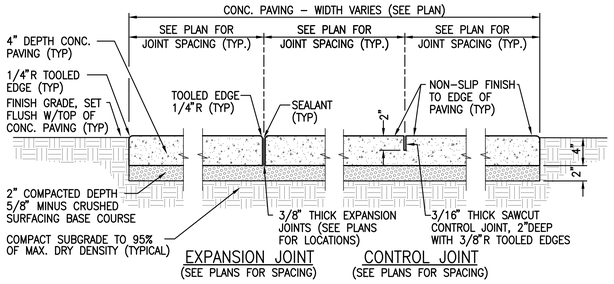
CONTENTS:

OVERALL HARDSCAPE PLAN

SCALE:	As indicated
DRAWN:	MPF / SAJ
CHECKED:	SAJ
PROJECT NO:	5812

SHEET:

L1.0

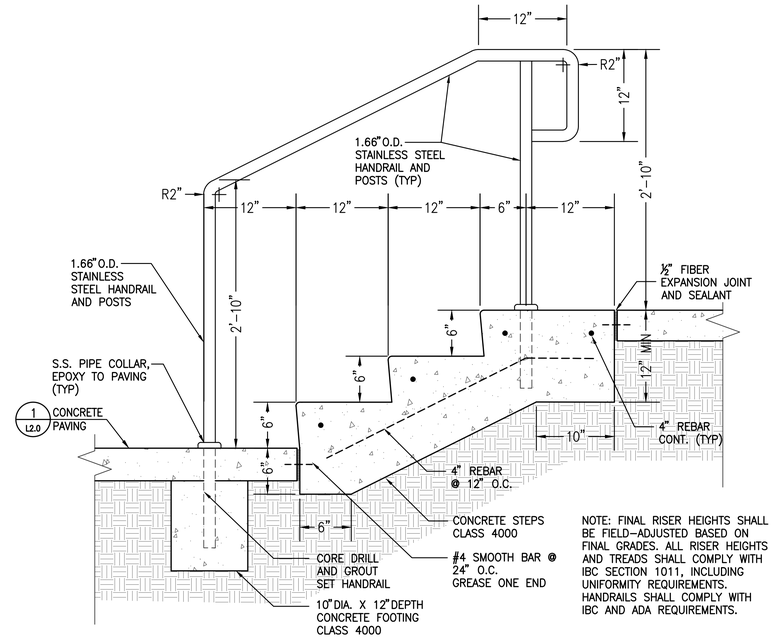


NOTE: ANY DAMAGE TO WALK SHALL BE REPAIRED BY REMOVING DAMAGED CONCRETE PAVING SECTIONS AT EXPANSION JOINT LINES AND REPLACING WITH NEW CONCRETE PAVING (NO PARTIAL PATCHING ALLOWED).

NOTE: COORDINATE JOINT LOCATIONS IN ABUTTING WALLS AND/OR CURBS WITH JOINTS IN CONCRETE PAVING (TYPICAL)

1 L2.0 FIBER REINFORCED CONCRETE PAVING

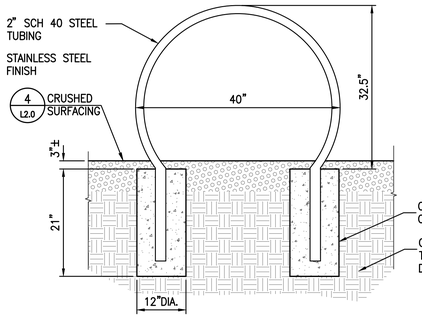
0 2" 4" 8" 1-1/2" = 1'-0" ON FULL SIZE (30"x42")

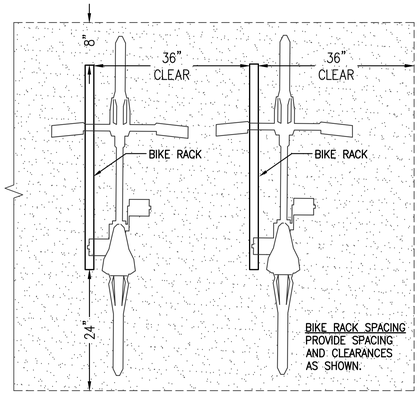


NOTE: FINAL RISER HEIGHTS SHALL BE FIELD-ADJUSTED BASED ON FINAL GRADES. ALL RISER HEIGHTS AND TREADS SHALL COMPLY WITH IBC SECTION 1011, INCLUDING UNIFORMITY REQUIREMENTS. HANDRAILS SHALL COMPLY WITH IBC AND ADA REQUIREMENTS.

2 L2.0 CONCRETE STEPS WITH STAINLESS STEEL HANDRAILS

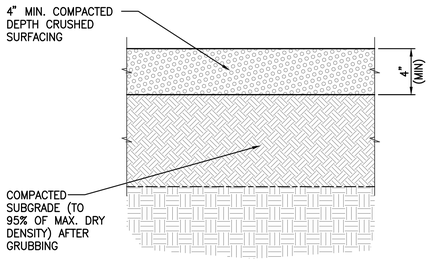
0 2" 4" 8" 1-1/2" = 1'-0" ON FULL SIZE (30"x42")





3 L2.0 BIKE RACK

0 3" 6" 12" 1" = 1'-0" ON FULL SIZE (30"x42")



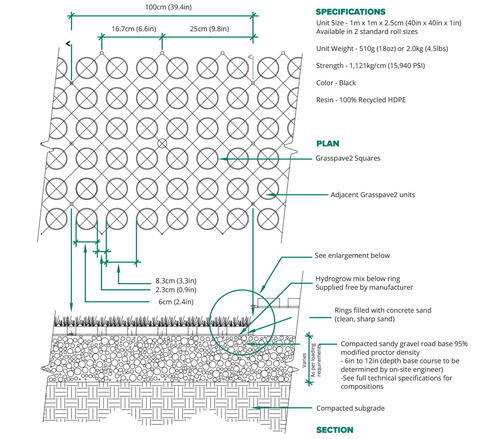
4 L2.0 CRUSHED ROCK SURFACING

0 2" 4" 8" 1-1/2" = 1'-0" ON FULL SIZE (30"x42")

GRASSPAVE2 - UNIT DETAILS

Choose This Product For Reinforcing Grass Wearing Surfaces

GRASSPAVE2 BY INVISIBLE STRUCTURES™



SPECIFICATIONS

Unit Size - 1m x 1m x 2.5cm (40in x 40in x 1in) Available in 2 standard roll sizes

Unit Weight - 510g (18oz) or 2.0kg (4.5lbs)

Strength - 1,121kg/cm (15,940 PSI)

Color - Black

Resin - 100% Recycled HDPE

Note: Grass/Plant types shall be specified by a landscape architect or landscape designer

NOT FOR SCALE

InvisibleStructures.com INVISIBLE STRUCTURES 303-233-8383

1 of 1

5 L2.0 GRASSPAVE

SCALE: N. T. S.

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REGISTERED LANDSCAPE ARCHITECT STATE OF WASHINGTON JAMES A. JOHNSON 24000 LICENSE EXPIRES ON 06/04/2027

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ISSUE DATE: JUNE 2, 2025

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Rev #	Date	Description

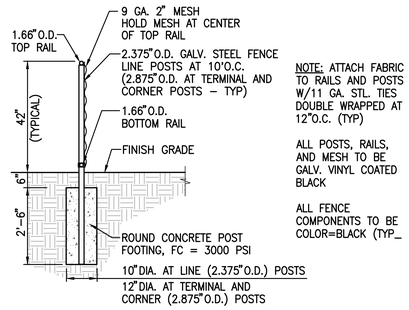
CONTENTS:

HARDSCAPE DETAILS

SCALE:	As indicated
DRAWN:	MPF / SAJ
CHECKED:	SAJ
PROJECT NO:	5812

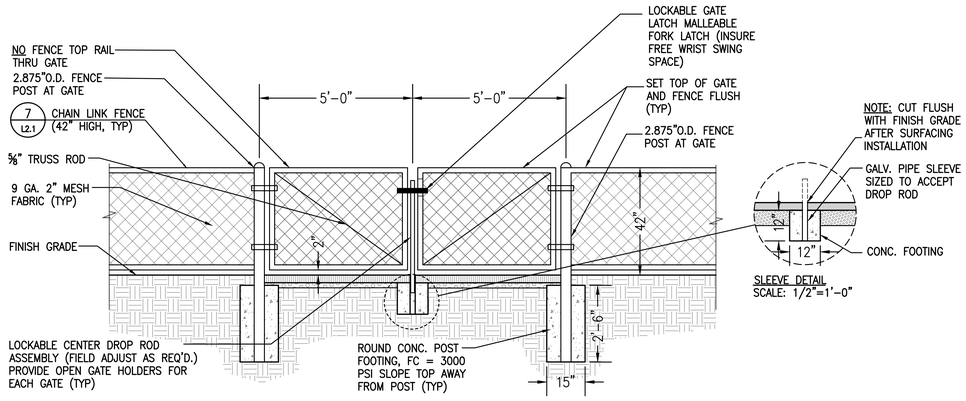
SHEET:

L2.0



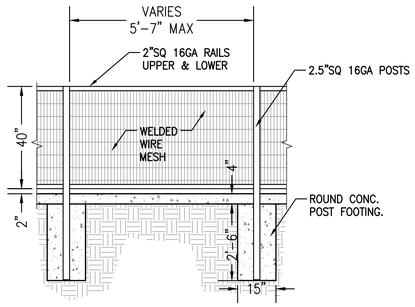
7 L2.1 CHAIN LINK FENCE

0 6" 12" 24" 1/2" = 1'-0" ON FULL SIZE (30"x42")



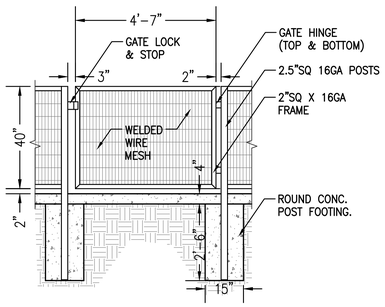
8 L2.1 CHAIN LINK FENCE DOUBLE SWING GATE

0 12" 24" 48" 1/4 = 1'-0" ON FULL SIZE (30"x42") (UNLESS NOTED)



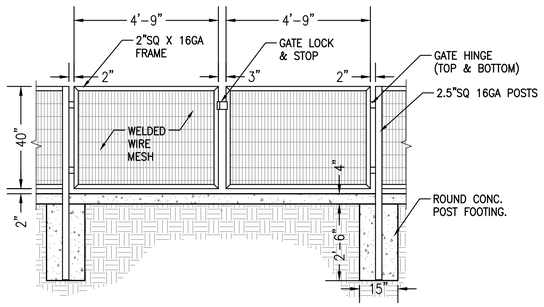
9 L2.1 WWM FENCE ENCLOSURE

0 6" 12" 24" 1/2" = 1'-0" ON FULL SIZE (30"x42")



10 L2.1 SINGLE SWING WWM FENCE GATE

0 6" 12" 24" 1/2" = 1'-0" ON FULL SIZE (30"x42")



11 L2.1 DOUBLE SWING WWM FENCE GATE

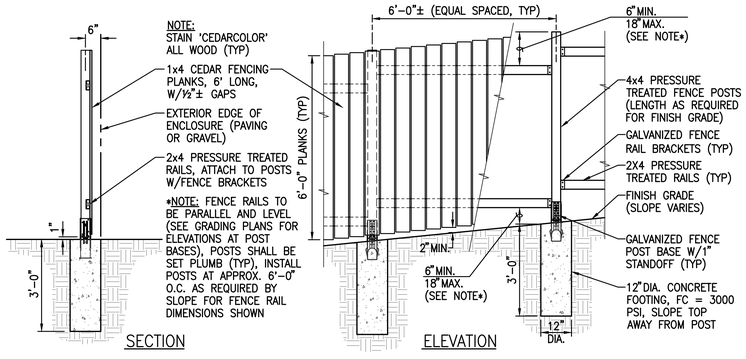
0 6" 12" 24" 1/2" = 1'-0" ON FULL SIZE (30"x42")

NOTE:
MANUFACTURER:
WIREWORKS PLUS ANTI-CLIMB – AMERISTAR FENCE PRODUCTS
WWW.AMERISTARFENCE.COM OR EQUAL.

INFILL PANEL:
MESH SIZE: 3" X 0.5" NOMINAL
MATERIAL: 10.5 GA WIRE, GALVANIZED AND POWDERCOATED
COLOR: BLACK

ALL COMPONENTS TO BE GALVANIZED AND POWDERCOATED.
COLOR: BLACK

ENSURE ABILITY OF GATES TO BE SECURED IN BOTH CLOSED AND OPEN POSITIONS.



12 L1.0 6' HIGH WOOD FENCE AT TRASH & GENERATOR ENCLOSURES

0 6" 12" 16" 1/2" = 1'-0" ON FULL SIZE (30"x42")

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STATE OF WASHINGTON JAMES A. JENSEN LANDSCAPE ARCHITECT LICENSE NO. 1428 EXPIRES ON 10/04/2027

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South Whidbey PARKS & RECREATION DISTRICT

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ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:

HARDSCAPE DETAILS

SCALE: As indicated
DRAWN: MPF / SAJ
CHECKED: SAJ
PROJECT NO: 5812

SHEET:
L2.1

PLANT SCHEDULE

	SIZE	QTY	MATURE SIZE
TREES			
ACER PALMATUM 'SANGO KAKU' JAPANESE MAPLE	1.5" CAL	6	15' H X 15' W
GINKGO BILOBA 'PRINCETON SENTRY' PRINCETON SENTRY GINKGO	3" CAL	9	40' H X 15' W
LIQUIDAMBAR 'ROTUNDILOBA' 'ROTUNDILOBA' SWEETGUM	3.5" CAL	1	50' H X 30' W
PRUNUS SERRULATA 'MT. FUJI' MT FUJI FLOWERING CHERRY	1.5" CAL	6	20' H X 25' W
PSEUDOTSUGA MENZIESII DOUGLAS FIR	B&B	8	80' H X 30' W
SHRUBS			
CORNUS SERICEA RED OSIER DOGWOOD	1 GAL	42	6' H X 6' W
CORNUS X 'ARCTIC FIRE' 'ARCTIC FIRE' DOGWOOD	1 GAL	44	4' H X 4' W
HEBE BUXIFOLIA BOX LEAF HEBE	1 GAL	15	3' H X 3' W
GAULTHERIA SHALLON SALAL	1 GAL	351	3' H X 4' W
LAVADULA X INTERMEDIA 'GROSSO' GROSSO LAVENDAR	1 GAL	85	3' H X 3' W
RHODODENDRON MACROPHYLLUM PACIFIC RHODODENDRON	1 GAL	64	8' H X 6' W
VACCINIUM OVATUM EVERGREEN HUCKLEBERRY	1 GAL	22	6' H X 5' W
GROUNDCOVER			
ARCTOSTAPHALOS URVA-URSI KINNIKINNICK	1 GAL	324	1' H X 3' W
JUNIPERUS SABINA 'BLUE PACIFIC' JUNIPER 'BLUE PACIFIC'	1 GAL	37	1' H X 4' W

MATERIAL LEGEND

	QTY
RIVER ROCK 3" DEPTH RIVER ROCK SURFACING	368 SF
GROUNDCOVER	
TURF GRASS BY OWNER	14,310 SF
FESCUE MEADOW BY OWNER	15,820 SF
HYDROSEED 30% TUFTED HAIRGRASS 25% CREEPING RED FESCUE 20% BLUE WILDRYE 15% IDAHO FESCUE 10% CALIFORNIA OATGRASS	20,689 SF
REGROUND FIR MULCH - 2" MIN DEPTH WHIDBEY TOPSOIL PROVIDE IN ALL DISTURBED AREAS UNLESS OTHERWISE NOTED	21,694 SF

NOTE:
CONTRACTOR SHALL VERIFY ALL QUANTITIES.

NORTH

0 10 20 40
GRAPHIC SCALE

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STATE OF OREGON
WILLIAM R. KOSER
3999
EXPIRES: 06/30/2027

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REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:

LANDSCAPE COMPOSITE PLAN

SCALE: **As indicated**
DRAWN: **MPF / SAJ**
CHECKED: **SAJ**
PROJECT NO: **5812**

SHEET:
L3.0

CADD filename: R:\DRAWINGS\5812 – SOUTH WHIDBEY AQUATIC CENTER\08 – 100% SET\5812 L3.0-L3.4.DWG || Plotted: 5.23.25–20:22 By:(sjensen)

PLANT SCHEDULE

	SIZE
TREES	
ACER PALMATUM 'SANGO KAKU' JAPANESE MAPLE	1.5" CAL
GINKGO BILOBA 'PRINCETON SENTRY' PRINCETON SENTRY GINKGO	3" CAL
LIQUIDAMBAR 'ROTUNDILOBA' 'ROTUNDILOBA' SWEETGUM	3.5" CAL
PRUNUS SERRULATA 'MT. FUJI' MT FUJI FLOWERING CHERRY	1.5" CAL
PSEUDOTSUGA MENZIESII DOUGLAS FIR	B&B
SHRUBS	
CORNUS SERICEA RED OSIER DOGWOOD	1 GAL
CORNUS X 'ARCTIC FIRE' 'ARCTIC FIRE' DOGWOOD	1 GAL
HEBE BUXIFOLIA BOX LEAF HEBE	1 GAL
GAULTHERIA SHALLON SALAL	1 GAL
LAVADULA X INTERMEDIA 'GROSSO' GROSSO LAVENDAR	1 GAL
RHODODENDRON MACROPHYLLUM PACIFIC RHODODENDRON	1 GAL
VACCINIUM OVATUM EVERGREEN HUCKLEBERRY	1 GAL
GROUNDCOVER	
ARCTOSTAPHALOS URVA-URSI KINNIKINNICK	1 GAL
JUNIPERUS SABINA 'BLUE PACIFIC' JUNIPER 'BLUE PACIFIC'	1 GAL

MATERIAL LEGEND

RIVER ROCK
3" DEPTH RIVER ROCK SURFACING

GROUNDCOVER

TURF GRASS
BY OWNER

FESCUE MEADOW
BY OWNER

HYDROSEED
30% TUFTED HAIRGRASS
25% CREEPING RED FESCUE
20% BLUE WILDRYE
15% IDAHO FESCUE
10% CALIFORNIA OATGRASS

REGROUND FIR MULCH - 2" MIN DEPTH
WHIDBEY TOPSOIL
PROVIDE IN ALL DISTURBED AREAS
UNLESS OTHERWISE NOTED

NOTE:
CONTRACTOR SHALL VERIFY ALL QUANTITIES.

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STATE OF WASHINGTON
MATTHEW P. FISHER
21547
REGISTERED LANDSCAPE ARCHITECT
EXPIRES ON 04/7/2027

S WHIDBEY PARKS & REC
AQUATIC REC CENTER

5491 MAXWELTON RD
LANGLEY, WA 98260

South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:

LANDSCAPE PLAN - GRID 1

SCALE:	As Indicated
DRAWN:	MPF / SAJ
CHECKED:	SAJ
PROJECT NO:	5812

SHEET:

L3.1

CADD filename: R:\DRAWINGS\5812 – SOUTH WHIDBEY AQUATIC CENTER\08 – 100% SET\5812 L3.0-L3.4.DWG || Plotted: 5.23.25-20:23 By:(sjensen)

PLANT SCHEDULE

		SIZE
	TREES	
	ACER PALMATUM 'SANGO KAKU' JAPANESE MAPLE	1.5" CAL
	GINKGO BILOBA 'PRINCETON SENTRY' PRINCETON SENTRY GINKGO	3" CAL
	LIQUIDAMBAR 'ROTUNDILOBA' 'ROTUNDILOBA' SWEETGUM	3.5" CAL
	PRUNUS SERRULATA 'MT. FUJI' MT FUJI FLOWERING CHERRY	1.5" CAL
	PSEUDOTSUGA MENZIESII DOUGLAS FIR	B&B
	SHRUBS	
	CORNUS SERICEA RED OSIER DOGWOOD	1 GAL
	CORNUS X 'ARCTIC FIRE' 'ARCTIC FIRE' DOGWOOD	1 GAL
	HEBE BUXIFOLIA BOX LEAF HEBE	1 GAL
	GAULTHERIA SHALLON SALAL	1 GAL
	LAVADULA X INTERMEDIA 'GROSSO' GROSSO LAVENDAR	1 GAL
	RHODODENDRON MACROPHYLLUM PACIFIC RHODODENDRON	1 GAL
	VACCINIUM OVATUM EVERGREEN HUCKLEBERRY	1 GAL
	GROUNDCOVER	
	ARCTOSTAPHALOS URVA-URSI KINNIKINNICK	1 GAL
	JUNIPERUS SABINA 'BLUE PACIFIC' JUNIPER 'BLUE PACIFIC'	1 GAL

MATERIAL LEGEND

RIVER ROCK
3" DEPTH RIVER ROCK SURFACING

GROUNDCOVER

TURF GRASS
BY OWNER

FESCUE MEADOW
BY OWNER

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STATE OF WASHINGTON
MATTHEW P. FISHER
21668
REGISTERED LANDSCAPE ARCHITECT
EXPIRES ON 09/04/2027

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South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

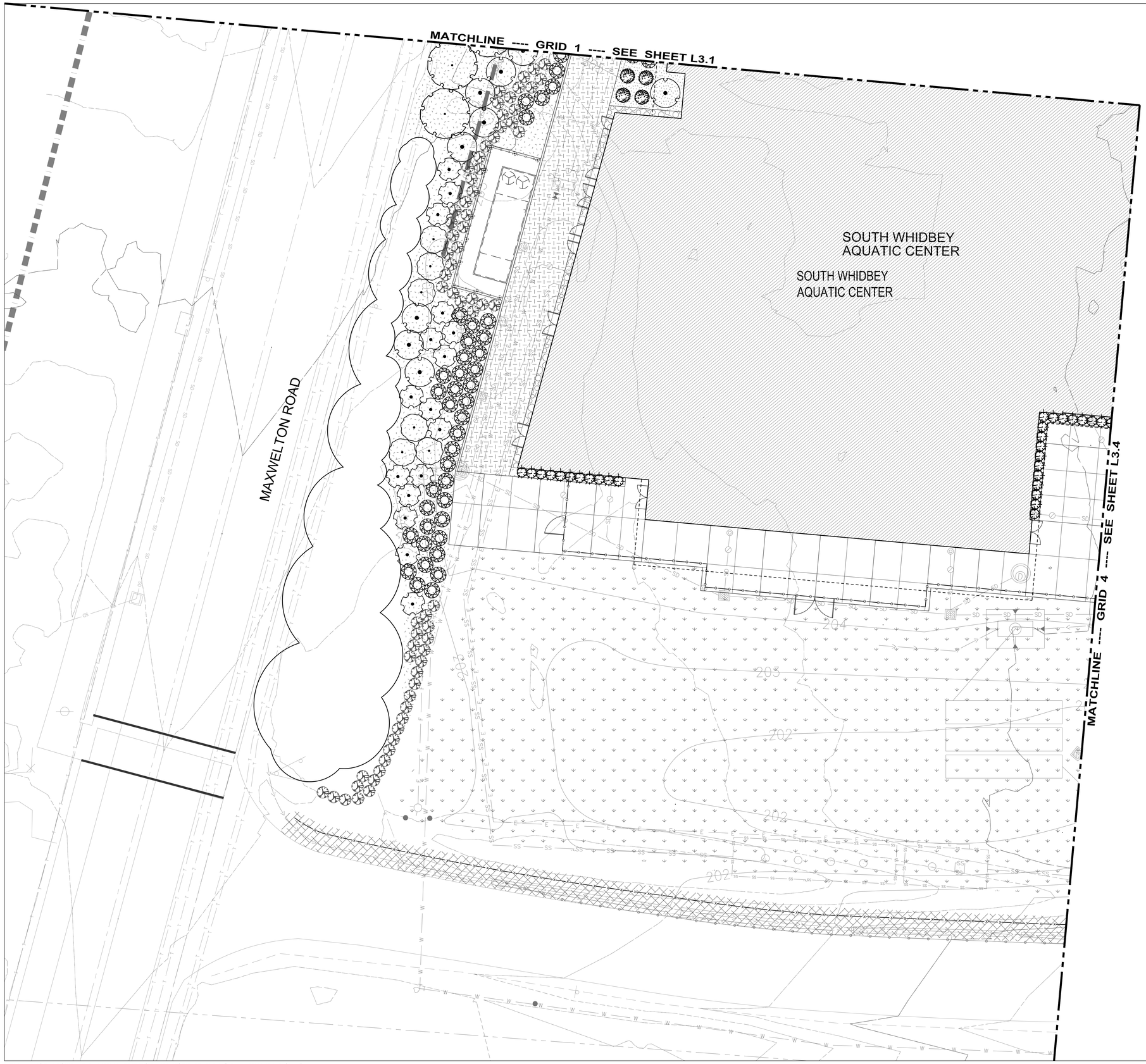
REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:
LANDSCAPE PLAN - GRID 2

SCALE: **As indicated**
DRAWN: **MPF / SAJ**
CHECKED: **SAJ**
PROJECT NO: **5812**

SHEET:
L3.2

CADD filename: R:\DRAWINGS\5812 – SOUTH WHIDBEY AQUATIC CENTER\08 – 100% SET\5812 L3.0–L3.4.DWG ‖ Plotted: 5.23.25–20:23 By:(sjensen)



PLANT SCHEDULE

	SIZE
TREES	
ACER PALMATUM 'SANGO KAKU' JAPANESE MAPLE	1.5" CAL
GINKGO BILOBA 'PRINCETON SENTRY' PRINCETON SENTRY GINKGO	3" CAL
LIQUIDAMBAR 'ROTUNDILOBA' 'ROTUNDILOBA' SWEETGUM	3.5" CAL
PRUNUS SERRULATA 'MT. FUJI' MT FUJI FLOWERING CHERRY	1.5" CAL
PSEUDOTSUGA MENZIESII DOUGLAS FIR	B&B
SHRUBS	
CORNUS SERICEA RED OSIER DOGWOOD	1 GAL
CORNUS X 'ARCTIC FIRE' 'ARCTIC FIRE' DOGWOOD	1 GAL
HEBE BUXIFOLIA BOX LEAF HEBE	1 GAL
GAULTHERIA SHALLON SALAL	1 GAL
LAVADULA X INTERMEDIA 'GROSSO' GROSSO LAVENDAR	1 GAL
RHODODENDRON MACROPHYLLUM PACIFIC RHODODENDRON	1 GAL
VACCINIUM OVATUM EVERGREEN HUCKLEBERRY	1 GAL
GROUNDCOVER	
ARCTOSTAPHALOS URVA-URSI KINNIKINNICK	1 GAL
JUNIPERUS SABINA 'BLUE PACIFIC' JUNIPER 'BLUE PACIFIC'	1 GAL

MATERIAL LEGEND

RIVER ROCK
3" DEPTH RIVER ROCK SURFACING

GROUNDCOVER

TURF GRASS
BY OWNER

FESCUE MEADOW
BY OWNER

HYDROSEED
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NORTH

0 5 10 20
GRAPHIC SCALE

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STATE OF WASHINGTON
MICHAEL P. FOSTER
21664
REGISTERED LANDSCAPE ARCHITECT
EXPIRES ON 04/14/2027

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South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:

LANDSCAPE PLAN - GRID 3

SCALE: **As indicated**
DRAWN: **MPF / SAJ**
CHECKED: **SAJ**
PROJECT NO: **5812**

SHEET:
L3.3

PLANT SCHEDULE

	SIZE
TREES	
ACER PALMATUM 'SANGO KAKU' JAPANESE MAPLE	1.5" CAL
GINKGO BILOBA 'PRINCETON SENTRY' PRINCETON SENTRY GINKGO	3" CAL
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SHRUBS	
CORNUS SERICEA RED OSIER DOGWOOD	1 GAL
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GAULTHERIA SHALLON SALAL	1 GAL
LAVADULA X INTERMEDIA 'GROSSO' GROSSO LAVENDAR	1 GAL
RHODODENDRON MACROPHYLLUM PACIFIC RHODODENDRON	1 GAL
VACCINIUM OVATUM EVERGREEN HUCKLEBERRY	1 GAL
GROUNDCOVER	
ARCTOSTAPHALOS URVA-URSI KINNIKINNICK	1 GAL
JUNIPERUS SABINA 'BLUE PACIFIC' JUNIPER 'BLUE PACIFIC'	1 GAL

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3" DEPTH RIVER ROCK SURFACING

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BY OWNER

FESCUE MEADOW
BY OWNER

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NORTH

0 5 10 20
GRAPHIC SCALE

CADD filename: R:\DRAWINGS\5812 – SOUTH WHIDBEY AQUATIC CENTER\08 – 100% SET\5812 L3.0-L3.4.DWG || Plotted: 5.23.25–20:24 By:(sjensen)

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ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description

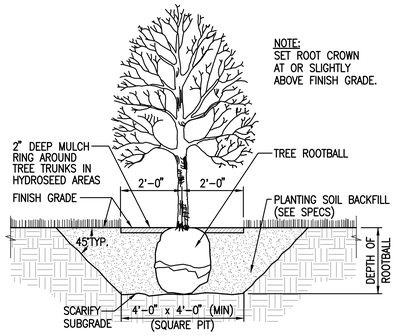
CONTENTS:

LANDSCAPE PLAN - GRID 4

SCALE:	As indicated
DRAWN:	MPF / SAJ
CHECKED:	SAJ
PROJECT NO:	5812

SHEET:

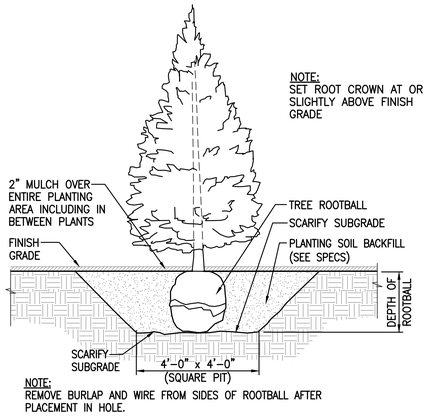
L3.4



NOTE:
REMOVE ALL BURLAP AND WIRE FROM ROOTBALL AFTER PLACING IN PIT.

1 L3.0 L3.1–L3.4 DECIDUOUS TREE PLANTING DETAIL

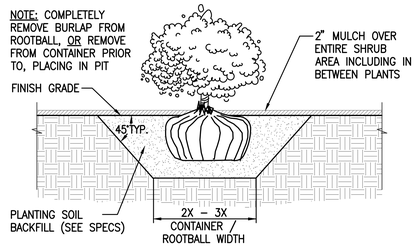
0 6" 12" 24" 1/2" = 1'-0" ON FULL SIZE (30"x42")



NOTE:
REMOVE BURLAP AND WIRE FROM SIDES OF ROOTBALL AFTER PLACEMENT IN HOLE.

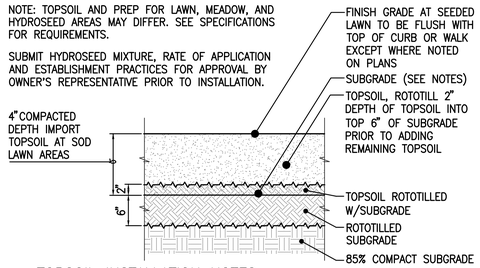
2 L3.0 L3.1–L3.4 CONIFEROUS TREE PLANTING DETAIL

0 6" 12" 24" 1/2" = 1'-0" ON FULL SIZE (30"x42")



3 L3.0 L3.1–L3.4 SHRUB PLANTING DETAIL

0 6" 12" 24" 1/2" = 1'-0" ON FULL SIZE (30"x42")



TOPSOIL INSTALLATION NOTES:

1. ROTOTILL SUBGRADE TO A 6" DEPTH.
2. PRIOR TO INSTALLATION OF TOPSOIL, REMOVE ALL DEBRIS INCLUDING CEMENT; CONSTRUCTION DEBRIS; QUARRY SPALLS; AND OTHER MATERIALS DELETERIOUS TO PLANT GROWTH. OBTAIN APPROVAL OF FINISH SUBGRADE PRIOR TO PLACING TOPSOIL.
3. FINISH SUBGRADE SHALL BE SMOOTH, UNIFORM, FREE OF RUTS OR TRACKS, AND SLOPED TO DRAIN AWAY FROM PAVED AREAS AND PATHS.

4 L3.0 L3.1–L3.4 LAWN TOPSOIL INSTALLATION SECTION

0 3" 6" 12" 1" = 1'-0" ON FULL SIZE (30"x42")

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STATE OF WASHINGTON
MARISSA JENSEN
24884
REGISTERED LANDSCAPE ARCHITECT
LICENSE NO. LAR
EXPIRES ON 10/09/2027

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South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
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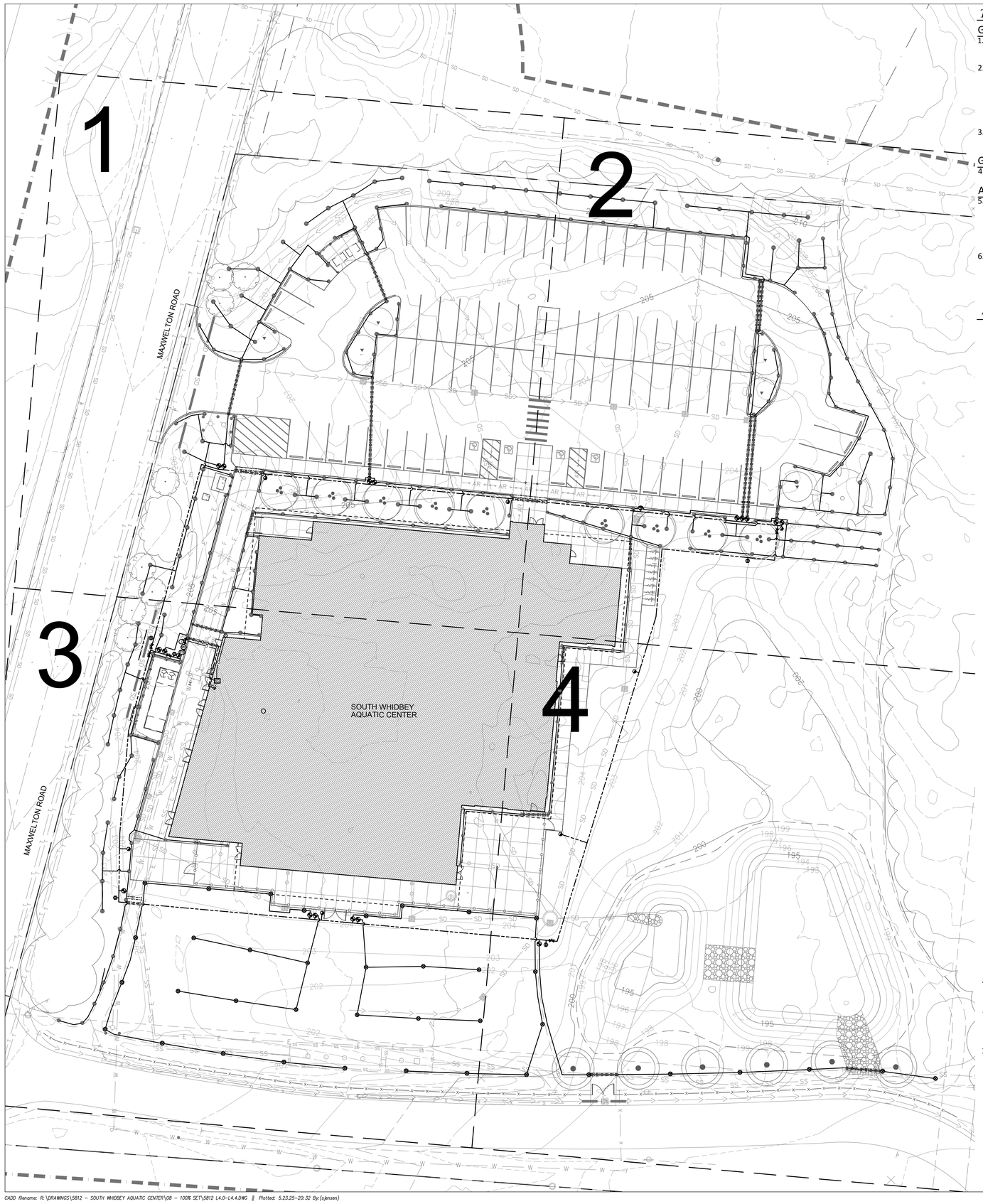
CONTENTS:

LANDSCAPE PLANTING DETAILS

SCALE: As indicated
DRAWN: MPF / SAJ
CHECKED: SAJ
PROJECT NO: 5812

SHEET:

L3.5



TYPICAL IRRIGATION SYSTEM NOTES

GENERAL:

1. REFER TO SECTION 32 80 00 - 'IRRIGATION SYSTEM' FOR COMPLETE IRRIGATION SYSTEM SPECIFICATIONS.
2. CONTRACTOR SHALL VERIFY EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION. CONTACT 'CALL BEFORE YOU DIG' AT (800)424-5555 FOR FIELD LOCATION ASSISTANCE WITHIN PUBLIC RIGHT-OF-WAY. RETAIN A PRIVATE LOCATOR SERVICE TO LOCATE UTILITIES WITHIN THE PROJECT SITE.
3. ALL EQUIPMENT TO BE INSTALLED PER ISLAND COUNTY CODES AND SPECIFICATIONS. INSTALLER TO BE RESPONSIBLE FOR ALL PERMITS IF REQUIRED.

GETTING STARTED:

4. SEE SPECIFICATIONS FOR IRRIGATION "GETTING STARTED" NOTES.

AVAILABLE PRESSURE:

5. IRRIGATION ENGINEERING IS BASED ON A 3" SCH 40 PVC IRRIGATION MAINLINE POINT OF CONNECTION WITH 50.0 LBS. STATIC WATER PRESSURE AT THE P.O.C. AVAILABLE PRESSURE & FLOW: VERIFY MINIMUM FLOWS AND DYNAMIC PRESSURE PRIOR TO COMMENCING WORK.
6. ADJUST VALVES WITH PRESSURE COMPENSATING DEVICE AND/OR FLOW CONTROLS TO BALANCE SYSTEM.

SLEEVES:

7. INSTALL SLEEVES WHERE PVC MAINS, PVC LATERALS, AND/OR 24V WIRES PASS BENEATH PAVED AREAS OR CONCRETE CURBS, GUTTERS, MOWSTRIPS, WALLS, ETC. EVEN IF NOT SHOWN ON PLAN.

MAINLINE AND LATERAL LOCATIONS:

8. ADJUST PROPOSED MAINLINE AND LATERAL LOCATION(S) AS NEEDED TO AVOID EXISTING AND PROPOSED STRUCTURES, CURBS, POLES, UTILITIES, PIPING, TREES, ETC. PIPING SHOWN ON THESE IRRIGATION PLANS IS DIAGRAMMATIC.
9. OBTAIN APPROVAL OF FINISH SUBGRADE BEFORE BEGINNING ANY TRENCHING.

SPRINKLER HEADS:

10. ROTOR NOZZLE SIZES ARE INDICATED IN THE LEGEND. ADJUST PATTERN AND RADII AS REQUIRED TO OBTAIN EVEN COVERAGE.
11. ON PART CIRCLE ROTORS, ADJUST NOZZLE PATTERN AND RADII AS REQUIRED TO OBTAIN EVEN COVERAGE.
12. SWING JOINTS SHALL BE SIZED TO MATCH BODY INLET THREADS, NO 'FUNNY PIPE' STYLE SWING JOINTS ALLOWED ON ROTORS (SEE DETAILS).

CONTROL WIRING:

13. INSTALL IRRIGATION CONTROLLER ON INTERIOR WALL IN RISER ROOM 129 OR WHERE DIRECTED BY OWNER.
14. INSTALL CONTROL WIRING INSIDE PVC CONDUIT FROM CONTROLLER TO SPLICE BOX AT IRRIGATION MAINLINE LOCATION WHERE SHOWN ON IRRIGATION POINT OF CONNECTION DETAIL.
15. ALL SIGNAL WIRES SHALL BE TAGGED WITH THE CORRESPONDING VALVE NUMBER.
16. FROM THE CONTROLLER DRAW ONE (1) COMMON WHITE WIRE TO ALL CONTROL VALVE BOXES, DRAW ONE (1) RED SIGNAL WIRE TO EACH CONTROL VALVE BOX, AND DRAW FOUR (4) SPARE YELLOW WIRES FROM CONTROLLER TO VALVE NO. 11 AND FOUR (4) SPARE YELLOW WIRES TO VALVE NO. 18 (ALL WIRES TO BE ROUTED FROM CONTROLLER TO VALVES VIA VALVE NO. 2, WIRES DO NOT LOOP AROUND EAST SIDE OF BUILDING).
17. NOTE: ALL WIRES SHALL BE VISIBLE INSIDE EACH BOX. DO NOT SPLICE THE WIRES BETWEEN THE VALVE AND THE CONTROLLER SPLICE BOX AT THE IRRIGATION POINT OF CONNECTION LOCATION. PASS AND LOOP ALL CONTROL WIRE AND SPARES AT EACH INTERMEDIATE VALVE BOX (TYP).

SYSTEM OPERATION:

18. SYSTEM IS DESIGNED TO PROVIDE 1" PRECIPITATION PER SEVEN DAY WEEK (WATERING EVERY DAY) WITHIN AN APPROXIMATE EIGHT (8) HOUR WATER WINDOW DURING WARMEST AND DRIEST TIME OF THE IRRIGATION SEASON.
19. RUN ZONES FEWER TIMES FOR LONGER PERIODS TO OBTAIN THOROUGH SOAKING OF THE ROOTZONE. MAXIMUM SYSTEM DISCHARGE CAPACITY IS 113.4 GPM.
20. RUN TIMES (BASED ON 1" PER WEEK) SHALL BE ADJUSTED DURING THE IRRIGATION SEASON BASED ON EVAPOTRANSPIRATION REQUIREMENTS.
21. ADDITIONAL WATERING WILL BE REQUIRED DURING PERIOD OF PLANT ESTABLISHMENT AND DURING THE FIRST YEAR OF COMPLETE SUMMER OPERATION.
22. THIS SYSTEM IS WINTERIZED BY USE OF COMPRESSED AIR INJECTED AT THE QUICK COUPLING VALVES LOCATED ALONG THE IRRIGATION MAINLINE.

IRRIGATION LAYOUT AND STAKING:

23. FIELD LOCATING AND STAKING OF IRRIGATION SYSTEM COMPONENTS SHALL BE AS SHOWN ON DRAWINGS AND BY COORDINATES OBTAINED VIA ELECTRONIC DRAWING FILES WHICH WILL BE PROVIDED WITHIN 5 DAYS AFTER RECEIVING WRITTEN REQUEST FOLLOWING THE NOTICE OF AWARD.
24. COORDINATES DERIVED FROM THE ELECTRONIC FILES OF THESE DIAGRAMMATIC PLANS ARE APPROXIMATE LOCATIONS THAT MAY BE USED ONLY FOR PRELIMINARY STAKING OF IRRIGATION SYSTEM COMPONENTS (ACTUAL COMPONENT LOCATIONS SHALL BE PER DRAWINGS, DETAILS, SPECIFICATIONS, AND ANY NECESSARY FIELD MODIFICATIONS).

IRRIGATION SCHEDULE - COMPLETE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
EST LCS RCS CST SST	RAIN BIRD 1812-SAM-PRS-U - SHRUB SPRAY, 15 STRIP SERIES 12" POP-UP W/SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE	30	9 / L4.5
Q T H F	RAIN BIRD 1812-SAM-PRS-U - SHRUB SPRAY, U8 SERIES 12" POP-UP W/SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE	30	9 / L4.5
Q T H F	RAIN BIRD 1812-SAM-PRS-U - SHRUB SPRAY, U10 SERIES 12" POP-UP W/SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE	30	9 / L4.5
Q T H TQ F	RAIN BIRD 1812-SAM-PRS-U - SHRUB SPRAY, U12 SERIES 12" POP-UP W/SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE	30	9 / L4.5
Q T H TQ F	RAIN BIRD 1812-SAM-PRS-U - SHRUB SPRAY, U15 SERIES 12" POP-UP W/SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE	30	9 / L4.5
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
5S	RAIN BIRD 5004-PL-PC-SAM-R-SS-MPR - TURF ROTOR 30 4IN. POP-UP, W/STAINLESS STEEL RISER, FLOW SHUT-OFF DEVICE, SEAL-A-MATIC CHECK VALVE, AND 35 PSI IN-STEM PRESSURE REGULATOR. MATCHED PRECIPITATION ROTOR (MPR NOZZLE), ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE.	35	10 / L4.5
5S	RAIN BIRD 5004-PL-PC-SAM-R-SS-MPR - TURF ROTOR 35 4IN. POP-UP, W/STAINLESS STEEL RISER, FLOW SHUT-OFF DEVICE, SEAL-A-MATIC CHECK VALVE, AND 35 PSI IN-STEM PRESSURE REGULATOR. MATCHED PRECIPITATION ROTOR (MPR NOZZLE), ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE.	35	10 / L4.5
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION		DETAIL
	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D PLASTIC INDUSTRIAL VALVE W/LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION AND PRESSURE REGULATOR MODULE		7 / L4.5
	QUICK COUPLER VALVE - RAIN BIRD 44LRC 1" QCV, TWO PIECE BODY W/LOCKING COVER		6 / L4.5
	ISOLATION VALVE - KENNEDY KS-FW #8561ANSS 3" (LINE SIZE) GATE VALVE		2 / L4.5
MV	MASTER VALVE - SUPERIOR 3200 2" NORMALLY CLOSED BRASS 2" MASTER VALVE W/DIRTY WATER PROTECTION AND NO MINIMUM FLOW FEATURE		1 / L4.5
D	MANUAL DRAIN VALVE - CHAMPION #200-1.00" RS WITH RISING SWIVEL (AT MAINLINE LOW POINT)		3 / L4.5
IC	IRRIGATION CONTROLLER - RAIN BIRD 24 STATION TRADITIONALLY-WIRED, PRO SMART, ESPLXME2P 12-STATION W/(1) ESPLXMSM12 - 12-STATION EXPANSION MODULE, INDOOR/OUTDOOR COMMERCIAL CONTROLLER IN PLASTIC WALL-MOUNT ENCLOSURE		
R	RAIN SENSOR - RAIN BIRD RSD-BEX W/METAL LATCHING BRACKET AND EXT WIRE, ROUTE WIRE TO CONTROLLER		
FS	FLOW SENSOR - RAIN BIRD FS-200-P 2" FLOW SENSOR, PLASTIC PVC MODEL		1 / L4.5
POC	POINT OF CONNECTION 3" IRRIGATION POINT OF CONNECTION ON 3" DOMESTIC WATER LINE FROM RISER ROOM (SEE CIVIL / PLUMBING PLANS)		1 / L4.5
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 LATERAL PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, ALL OTHERS ARE 3/4" PIPE SIZE		4 / L4.5
	IRRIGATION MAINLINE: PVC SCHEDULE 40 (LOOPED MAINLINE)		4 / L4.5
	PIPE SLEEVE: PVC CLASS 200 SDR 21 SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 12 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.		

VALVE CALLOUT REFERENCE

NORTH

0 10 20 40
GRAPHIC SCALE

VALVE SCHEDULE - FULL SYSTEM

NO.	MODEL	SIZE	TYPE	GPM
1	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	37.95
2	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	44.10
3	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	39.59
4	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	43.74
5	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	43.53
6	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	38.19
7	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	34.38
8	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	48.10
9	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	47.19
10	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	44.80
11	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	37.98
12	RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	36.33
13	RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTOR	25.19
14	RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTOR	30.48
15	RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTOR	28.06
16	RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTOR	30.48
17	RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTOR	18.27

CRITICAL ANALYSIS

Generated:	2025-05-21 12:02
P.O.C. NUMBER: 01	
Water Source Information:	
IRRIGATION POINT OF CONNECTION TO 3" DOMESTIC WATER "IRRIGATION" SERVICE LINE FROM RISER ROOM 129 (SEE CIVIL / PLUMBING PLANS)	
FLOW AVAILABLE	
Point of Connection Size:	3"
Flow Available	113.4 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	50 PSI
Pressure Available:	50 PSI
DESIGN ANALYSIS	
Maximum Multi-valve Flow:	100 GPM
Flow Available at POC:	113.4 GPM
Residual Flow Available:	13.4 GPM
Critical Station:	13
Design Pressure:	35 PSI
Friction Loss:	5.58 PSI
Fittings Loss:	0.56 PSI
Elevation Loss:	0 PSI
Loss through Valve:	3.74 PSI
Pressure Req. at Critical Station:	44.9 PSI
Loss for Fittings:	0.24 PSI
Loss for Main Line:	2.41 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	0 PSI
Critical Station Pressure at POC:	47.5 PSI
Pressure Available:	50 PSI
Residual Pressure Available:	2.46 PSI

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STATE OF WASHINGTON MARGARET PERRETT 22744 REGISTERED LANDSCAPE ARCHITECT EXPIRES ON 09/04/2027

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LANGLEY, WA 98260

South Whidbey PARKS & RECREATION DISTRICT

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ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
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CONTENTS:

LANDSCAPE IRRIGATION COMPOSITE PLAN

SCALE: As indicated
DRAWN: MPF / SAJ
CHECKED: SAJ
PROJECT NO: 5812

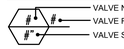
SHEET: **L4.0**

IRRIGATION SCHEDULE GRID-1

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
U8 Q T H F	RAIN BIRD 1812-SAM-PRS-U - SHRUB SPRAY, U8 SERIES 12" POP-UP W/SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE	30	9 / L4.5
U10 Q T H F	RAIN BIRD 1812-SAM-PRS-U - SHRUB SPRAY, U10 SERIES 12" POP-UP W/SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE	30	9 / L4.5
U12 Q T H TQ F	RAIN BIRD 1812-SAM-PRS-U - SHRUB SPRAY, U12 SERIES 12" POP-UP W/SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE	30	9 / L4.5
U15 Q T H TT TQ F	RAIN BIRD 1812-SAM-PRS-U - SHRUB SPRAY, U15 SERIES 12" POP-UP W/SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE	30	9 / L4.5

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D PLASTIC INDUSTRIAL VALVE W/LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION AND PRESSURE REGULATOR MODULE	7 / L4.5
	QUICK COUPLER VALVE - RAIN BIRD 44LRC 1" QCV, TWO PIECE BODY W/LOCKING COVER	6 / L4.5
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 LATERAL PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, ALL OTHERS ARE 3/4" PIPE SIZE	4 / L4.5
	IRRIGATION MAINLINE: PVC SCHEDULE 40 (LOOPED MAINLINE)	4 / L4.5
	PIPE SLEEVE: PVC CLASS 200 SDR 21 SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 12 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.	

VALVE CALLOUT REFERENCE



VALVE SCHEDULE GRID-1

NUMBER	MODEL	SIZE	TYPE	GPM
3	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	36.67
4	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	43.74
5	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	43.53
6	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	38.19

TYPICAL IRRIGATION SYSTEM NOTES

FOR TYPICAL IRRIGATION SYSTEM NOTES, COMPLETE IRRIGATION LEGEND, AND FULL VALVE SCHEDULE SEE SHEET L4.0.

NORTH

0 5 10 20

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STATE OF WASHINGTON MATTHEW P. FOSTER 23008 REGISTERED LANDSCAPE ARCHITECT EXPIRES ON 09/04/2027

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CONTENTS:

LANDSCAPE IRRIGATION PLAN - GRID 1

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PROJECT NO: 5812

SHEET:

L4.1

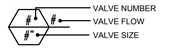
CADD filename: R:\DRAWINGS\5812 – SOUTH WHIDBEY AQUATIC CENTER\08 – 100% SET\5812 L4.0-L4.4.DWG || Plotted: 5.23.25–20.32 By:(sjensen)

IRRIGATION SCHEDULE GRID-2

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
EST LCS RCS CST SST	RAIN BIRD 1812-SAM-PRS-U - SHRUB SPRAY, 15 STRIP SERIES 12" POP-UP W/SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE	30	9 L4.5
Q T H F	RAIN BIRD 1812-SAM-PRS-U - SHRUB SPRAY, U8 SERIES 12" POP-UP W/SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE	30	9 L4.5
Q T H F	RAIN BIRD 1812-SAM-PRS-U - SHRUB SPRAY, U10 SERIES 12" POP-UP W/SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE	30	9 L4.5
Q T H TT TQ F	RAIN BIRD 1812-SAM-PRS-U - SHRUB SPRAY, U12 SERIES 12" POP-UP W/SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE	30	9 L4.5
Q T H TT TQ F	RAIN BIRD 1812-SAM-PRS-U - SHRUB SPRAY, U15 SERIES 12" POP-UP W/SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE	30	9 L4.5

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D PLASTIC INDUSTRIAL VALVE W/LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION AND PRESSURE REGULATOR MODULE	7 L4.5
	QUICK COUPLER VALVE - RAIN BIRD 44LRC 1" QCV, TWO PIECE BODY W/LOCKING COVER	6 L4.5
	ISOLATION VALVE - KENNEDY KS-FW #8561ANSS 3" (LINE SIZE) GATE VALVE	2 L4.5
D	MANUAL DRAIN VALVE - CHAMPION #200-1.00" RS WITH RISING SWIVEL (AT MAINLINE LOW POINT)	3 L4.5
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 LATERAL PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, ALL OTHERS ARE 3/4" PIPE SIZE	4 L4.5
	IRRIGATION MAINLINE: PVC SCHEDULE 40 (LOOPED MAINLINE)	4 L4.5
	PIPE SLEEVE: PVC CLASS 200 SDR 21 SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 12 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.	

VALVE CALLOUT REFERENCE



VALVE SCHEDULE GRID-2

NUMBER	MODEL	SIZE	TYPE	GPM
7	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	34.38
8	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	48.10
9	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	47.19
10	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	44.80
11	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	37.98

TYPICAL IRRIGATION SYSTEM NOTES

FOR TYPICAL IRRIGATION SYSTEM NOTES, COMPLETE IRRIGATION LEGEND, AND FULL VALVE SCHEDULE SEE SHEET L4.0.

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STATE OF WASHINGTON
MATTHEW P. FOSTER
22888
REGISTERED LANDSCAPE ARCHITECT
EXPIRES ON 04/04/2027

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LANDSCAPE IRRIGATION PLAN - GRID 2

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PROJECT NO: 5812

SHEET:

L4.2

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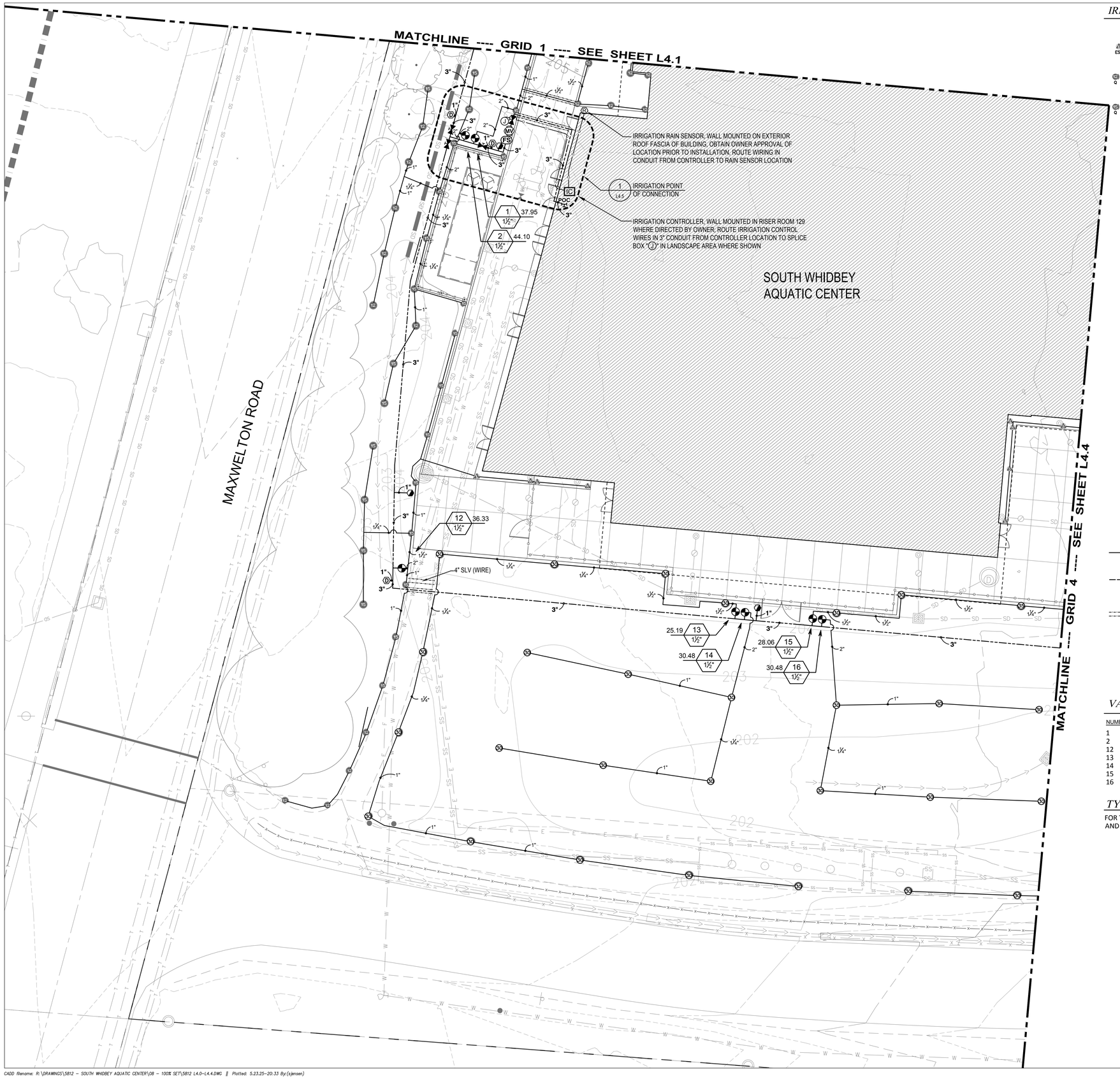


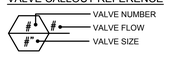
IRRIGATION SCHEDULE GRID-3

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
EST LCS RCS CST SST	RAIN BIRD 1812-SAM-PRS-U - SHRUB SPRAY, 15 STRIP SERIES 12" POP-UP W/SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE	30	9 L4.5
Q T H TT TQ T	RAIN BIRD 1812-SAM-PRS-U - SHRUB SPRAY, U12 SERIES 12" POP-UP W/SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE	30	9 L4.5
Q T H TT TQ T	RAIN BIRD 1812-SAM-PRS-U - SHRUB SPRAY, U15 SERIES 12" POP-UP W/SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE	30	9 L4.5

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
34	RAIN BIRD 5004-PL-PC-SAM-R-SS-MPR - TURF ROTOR 30 4IN. POP-UP, W/STAINLESS STEEL RISER, FLOW SHUT-OFF DEVICE, SEAL-A-MATIC CHECK VALVE, AND 35 PSI IN-STEM PRESSURE REGULATOR. MATCHED PRECIPITATION ROTOR (MPR NOZZLE), ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE.	35	10 L4.5
36	RAIN BIRD 5004-PL-PC-SAM-R-SS-MPR - TURF ROTOR 35 4IN. POP-UP, W/STAINLESS STEEL RISER, FLOW SHUT-OFF DEVICE, SEAL-A-MATIC CHECK VALVE, AND 35 PSI IN-STEM PRESSURE REGULATOR. MATCHED PRECIPITATION ROTOR (MPR NOZZLE), ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE.	35	10 L4.5

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D PLASTIC INDUSTRIAL VALVE W/LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION AND PRESSURE REGULATOR MODULE	7 L4.5
	QUICK COUPLER VALVE - RAIN BIRD 44LRC 1" QCV, TWO PIECE BODY W/LOCKING COVER	6 L4.5
	ISOLATION VALVE - KENNEDY KS-FW #8561ANSS 3" (LINE SIZE) GATE VALVE	2 L4.5
MV	MASTER VALVE - SUPERIOR 3200 2" NORMALLY CLOSED BRASS 2" MASTER VALVE W/DIRTY WATER PROTECTION AND NO MINIMUM FLOW FEATURE	
D	MANUAL DRAIN VALVE - CHAMPION #200-1.00" RS WITH RISING SWIVEL (AT MAINLINE LOW POINT)	3 L4.5
IC	IRRIGATION CONTROLLER - RAIN BIRD 24 STATION TRADITIONALLY-WIRED, PRO SMART, ESPLXME2P 12-STATION W/(1) ESPLXMSM12 - 12-STATION EXPANSION MODULE, INDOOR/OUTDOOR COMMERCIAL CONTROLLER IN PLASTIC WALL-MOUNT ENCLOSURE	
R	RAIN SENSOR - RAIN BIRD RSD-BEX W/METAL LATCHING BRACKET AND EXT WIRE, ROUTE WIRE TO CONTROLLER	
FS	FLOW SENSOR - RAIN BIRD FS-200-P 2" FLOW SENSOR, PLASTIC PVC MODEL	1 L4.5
POC 1"	POINT OF CONNECTION 3" IRRIGATION POINT OF CONNECTION ON 3" DOMESTIC WATER LINE FROM RISER ROOM (SEE CIVIL / PLUMBING PLANS)	1 L4.5
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 LATERAL PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, ALL OTHERS ARE 3/4" PIPE SIZE	4 L4.5
	IRRIGATION MAINLINE: PVC SCHEDULE 40 (LOOPED MAINLINE)	4 L4.5
	PIPE SLEEVE: PVC CLASS 200 SDR 21 SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 12 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.	

VALVE CALLOUT REFERENCE



VALVE SCHEDULE GRID-3

NUMBER	MODEL	SIZE	TYPE	GPM
1	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	37.95
2	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	44.10
12	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D	1-1/2"	SHRUB SPRAY	36.33
13	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTOR	25.19
14	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTOR	30.48
15	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTOR	28.06
16	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTOR	30.48

TYPICAL IRRIGATION SYSTEM NOTES

FOR TYPICAL IRRIGATION SYSTEM NOTES, COMPLETE IRRIGATION LEGEND, AND FULL VALVE SCHEDULE SEE SHEET L4.0.

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LANDSCAPE IRRIGATION PLAN - GRID 3

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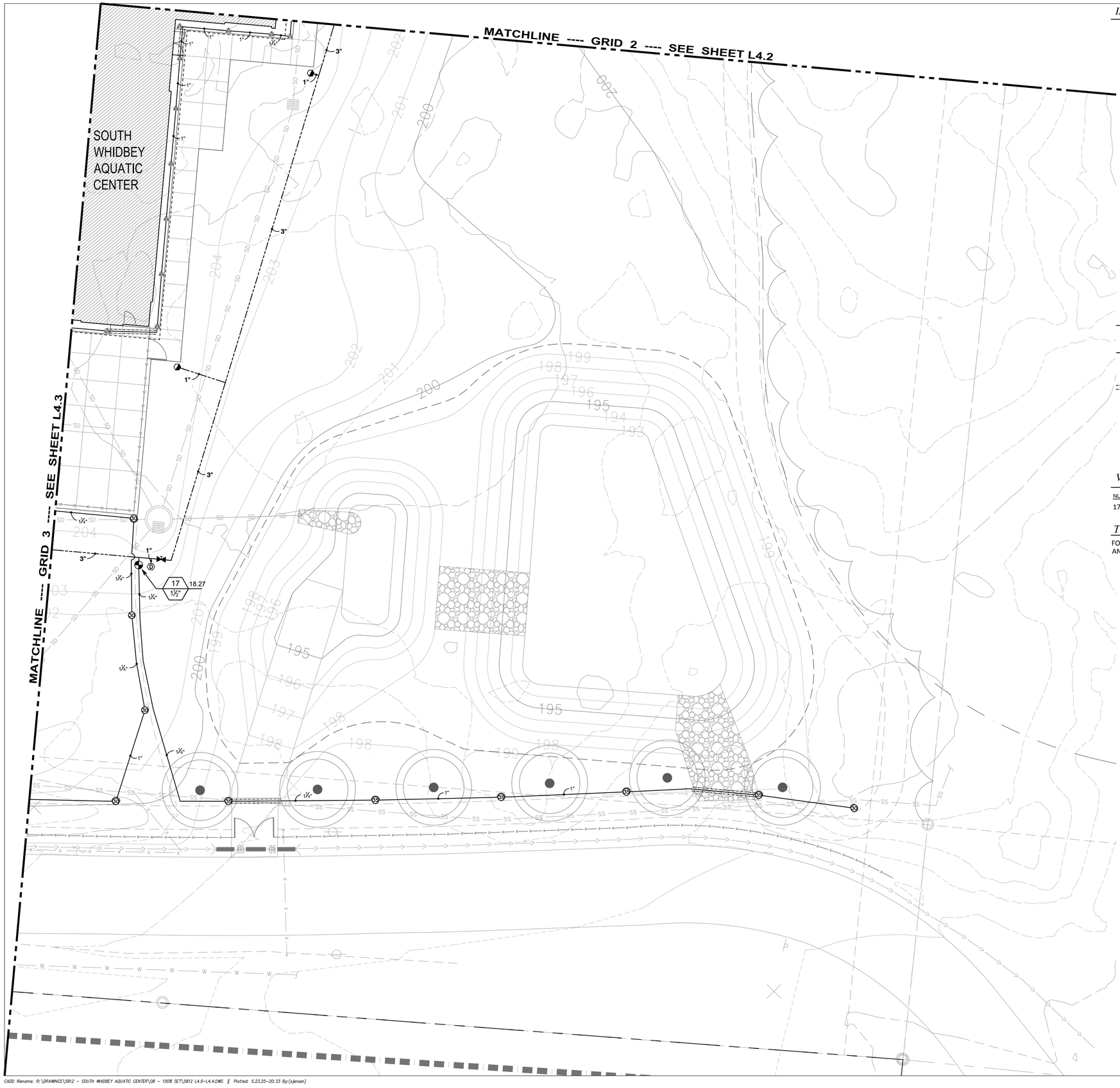
PROJECT NO: 5812

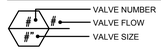
SHEET: **L4.3**



IRRIGATION SCHEDULE GRID-4

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	DETAIL
EST LCS RCS CST SST	RAIN BIRD 1812-SAM-PRS-U - SHRUB SPRAY, 15 STRIP SERIES 12" POP-UP W/SEAL-A-MATIC CHECK VALVE, AND PRESSURE REGULATING DEVICE	30	9 / L4.5
SYMBOL	**MANUFACTURER/MODEL/DESCRIPTION**	**PSI**	**DETAIL**
30	RAIN BIRD 5004-PL-PC-SAM-R-SS-MPR - TURF ROTOR 30 4IN. POP-UP, W/STAINLESS STEEL RISER, FLOW SHUT-OFF DEVICE, SEAL-A-MATIC CHECK VALVE, AND 35 PSI IN-STEM PRESSURE REGULATOR. MATCHED PRECIPITATION ROTOR (MPR NOZZLE), ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE.	35	10 / L4.5
35	RAIN BIRD 5004-PL-PC-SAM-R-SS-MPR - TURF ROTOR 35 4IN. POP-UP, W/STAINLESS STEEL RISER, FLOW SHUT-OFF DEVICE, SEAL-A-MATIC CHECK VALVE, AND 35 PSI IN-STEM PRESSURE REGULATOR. MATCHED PRECIPITATION ROTOR (MPR NOZZLE), ARC AND RADIUS AS PER SYMBOL. 25 FT=RED, 30 FT=GREEN, 35FT=BEIGE.	35	10 / L4.5
SYMBOL	**MANUFACTURER/MODEL/DESCRIPTION**		**DETAIL**
	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D PLASTIC INDUSTRIAL VALVE W/LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION AND PRESSURE REGULATOR MODULE		7 / L4.5
	QUICK COUPLER VALVE - RAIN BIRD 44LRC 1" QCV, TWO PIECE BODY W/LOCKING COVER		6 / L4.5
	ISOLATION VALVE - KENNEDY KS-FW #8561ANSS 3" (LINE SIZE) GATE VALVE		2 / L4.5
D	MANUAL DRAIN VALVE - CHAMPION #200-1.00" RS WITH RISING SWIVEL (AT MAINLINE LOW POINT)		3 / L4.5
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 LATERAL PIPE SIZES 1" AND ABOVE ARE INDICATED ON THE PLAN, ALL OTHERS ARE 3/4" PIPE SIZE		4 / L4.5
	IRRIGATION MAINLINE: PVC SCHEDULE 40 (LOOPED MAINLINE)		4 / L4.5
	PIPE SLEEVE: PVC CLASS 200 SDR 21 SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 12 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.		

VALVE CALLOUT REFERENCE



VALVE SCHEDULE GRID-4

NUMBER	MODEL	SIZE	TYPE	GPM
17	REMOTE CONTROL VALVE - RAIN BIRD PEB-PRS-D	1-1/2"	TURF ROTOR	18.27

TYPICAL IRRIGATION SYSTEM NOTES

FOR TYPICAL IRRIGATION SYSTEM NOTES, COMPLETE IRRIGATION LEGEND, AND FULL VALVE SCHEDULE SEE SHEET L4.0.

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LANDSCAPE IRRIGATION PLAN - GRID 4

SCALE: **As indicated**
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CHECKED: **SAJ**
PROJECT NO: **5812**

SHEET:

L4.4

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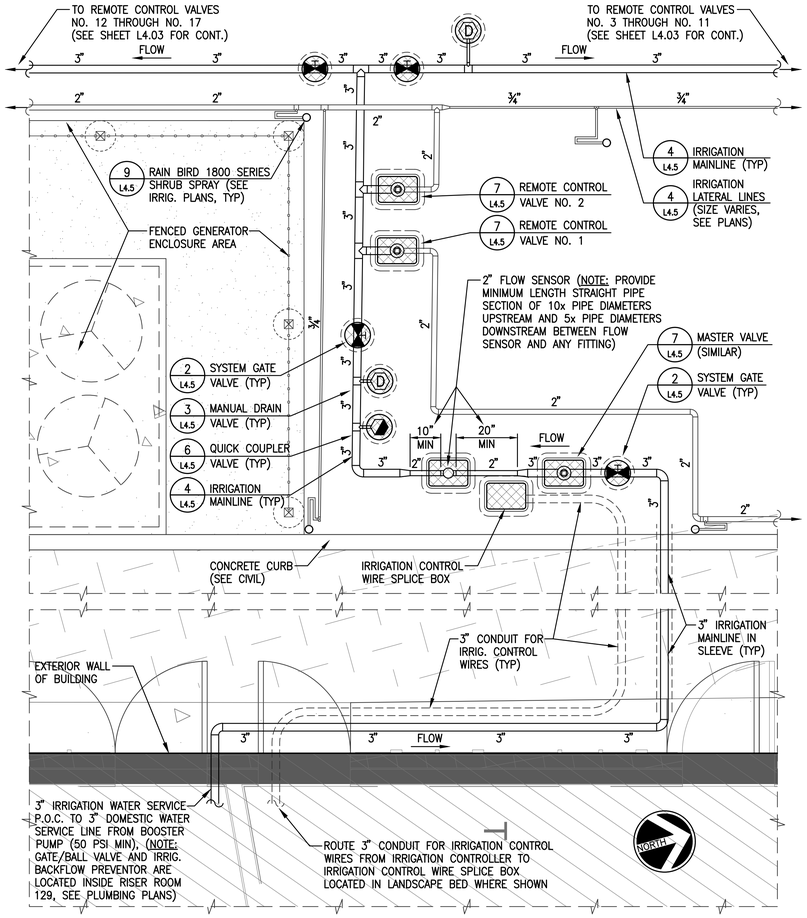
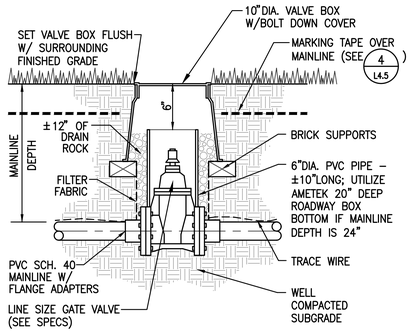
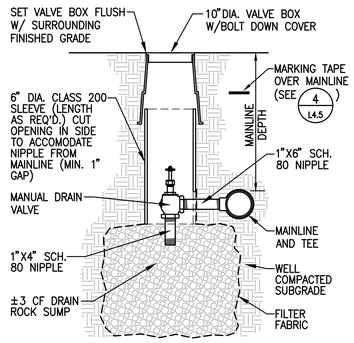


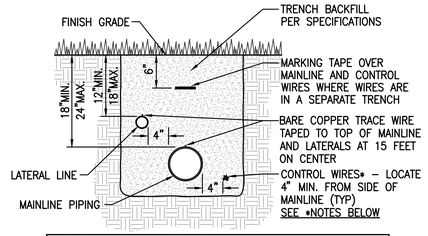
1 IRRIGATION POINT OF CONNECTION
L4.3 SCALE : N. T. S.



2 SYSTEM GATE VALVE
L4.* SCALE : N. T. S.

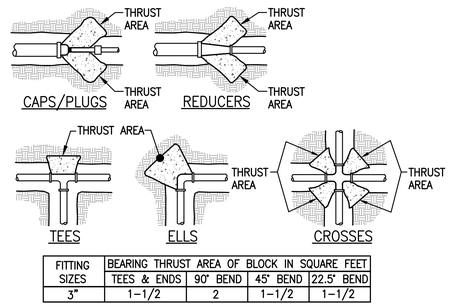


3 MANUAL DRAIN VALVE
L4.* SCALE : N. T. S.



*IMPORTANT CONTROL WIRE NOTES:
1. PROVIDE 36" WIRE LOOP AT ALL CHANGES IN DIRECTION
2. INSTALL AUXILIARY WIRES WITH AN 18" LOOP AT EACH INTERMEDIATE BOX
3. TAPE WIRE BUNDLES TOGETHER AT 15' INTERVALS (TYP)
4. RUN WIRES IN SEPARATE SLEEVE UNDER PAVING (SEE PLANS)

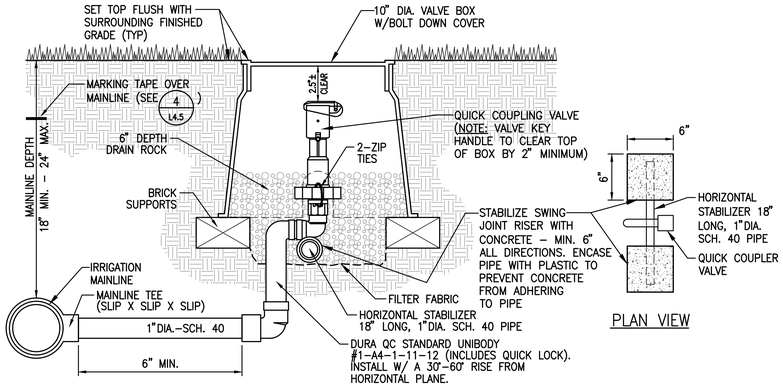
4 TRENCH DETAIL
L4.* SCALE : N. T. S.



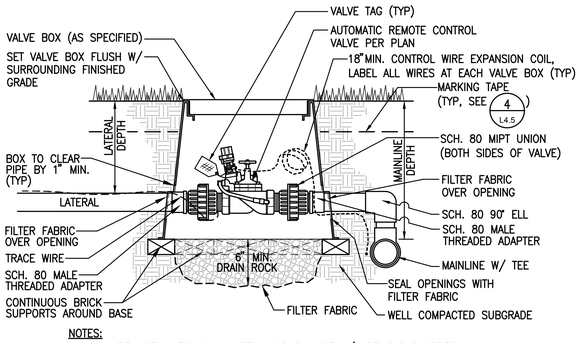
FITTING SIZES	BEARING THRUST AREA OF BLOCK IN SQUARE FEET			
	TEES & ENDS	90° BEND	45° BEND	22.5° BEND
3"	1-1/2	2	1-1/2	1-1/2

ALL BLOCKING SHALL BE POURED AGAINST FIRM UNDISTURBED SOIL.
SOIL BEARING PRESSURE SHALL EXCEED 4,500 LB PER SQUARE FOOT FOR ABOVE AREAS.
PROVIDE THRUST BLOCKING AT EVERY MAINLINE CHANGE OF DIRECTION AND TERMINATION.

5 CONCRETE THRUST BLOCKING
L4.* (LOCATED ON ALL NEW MAINLINE PIPING)

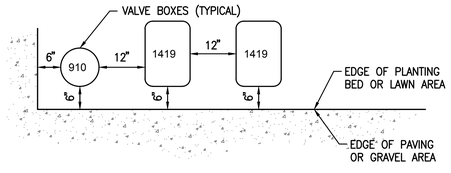


6 QUICK COUPLING VALVE
L4.* SCALE : N. T. S.



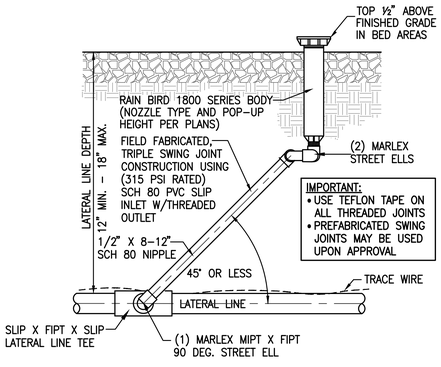
NOTES:
1. ALL WIRE INSTALLATIONS WILL BE IN COMPLIANCE W/ APPLICABLE CODES.
2. TAPE AND BUNDLE WIRE TOGETHER AT 15' INTERVALS.
3. PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX.
4. COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. VALVE BOX SHALL NOT REST ON PIPES – PROVIDE 1" CLEAR AROUND ALL PIPES.
6. SEAL OPENINGS W/ FILTER FABRIC TO PREVENT DEBRIS FROM ENTERING.

7 AUTOMATIC CONTROL VALVE
L4.* SCALE : 1/8" = 1"

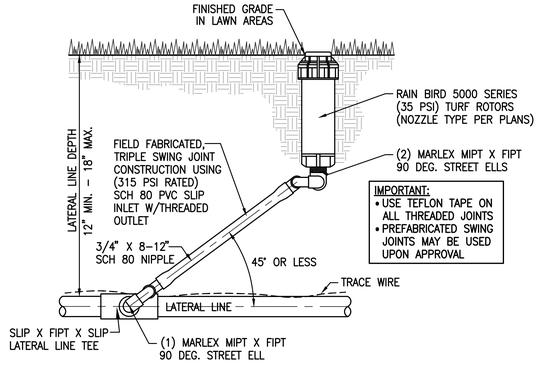


NOTES:
1. CENTER VALVE BOX OVER VALVE TO FACILITATE REMOVAL AND SERVICING.
2. SET BOXES LEVEL PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
3. COMPACT SOIL AROUND VALVE BOXES TO PREVENT SETTLING.
4. UNIFORMLY ADJUST DISTANCE OF VALVE BOXES OFF PAVEMENT TO PREVENT PIPING FROM RUNNING UNDERNEATH CONCRETE OR PAVING.

8 VALVE BOX INSTALLATION
L4.* SCALE : 3/4" = 1'-0"



9 RAIN BIRD 1800 SERIES SHRUB SPRAY SWING JOINT
L4.* SCALE : 1/4" = 1"



10 RAIN BIRD 5000 SERIES TURF ROTOR SWING JOINT
L4.* SCALE : 1/4" = 1"

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Site Planning • Recreation Facilities Design
221 S 28th St, Ste 100 Tacoma, WA 98402 (253)627-7947
www.bdeesassociates.com info@bdeesassociates.com

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REVISION SCHEDULE		
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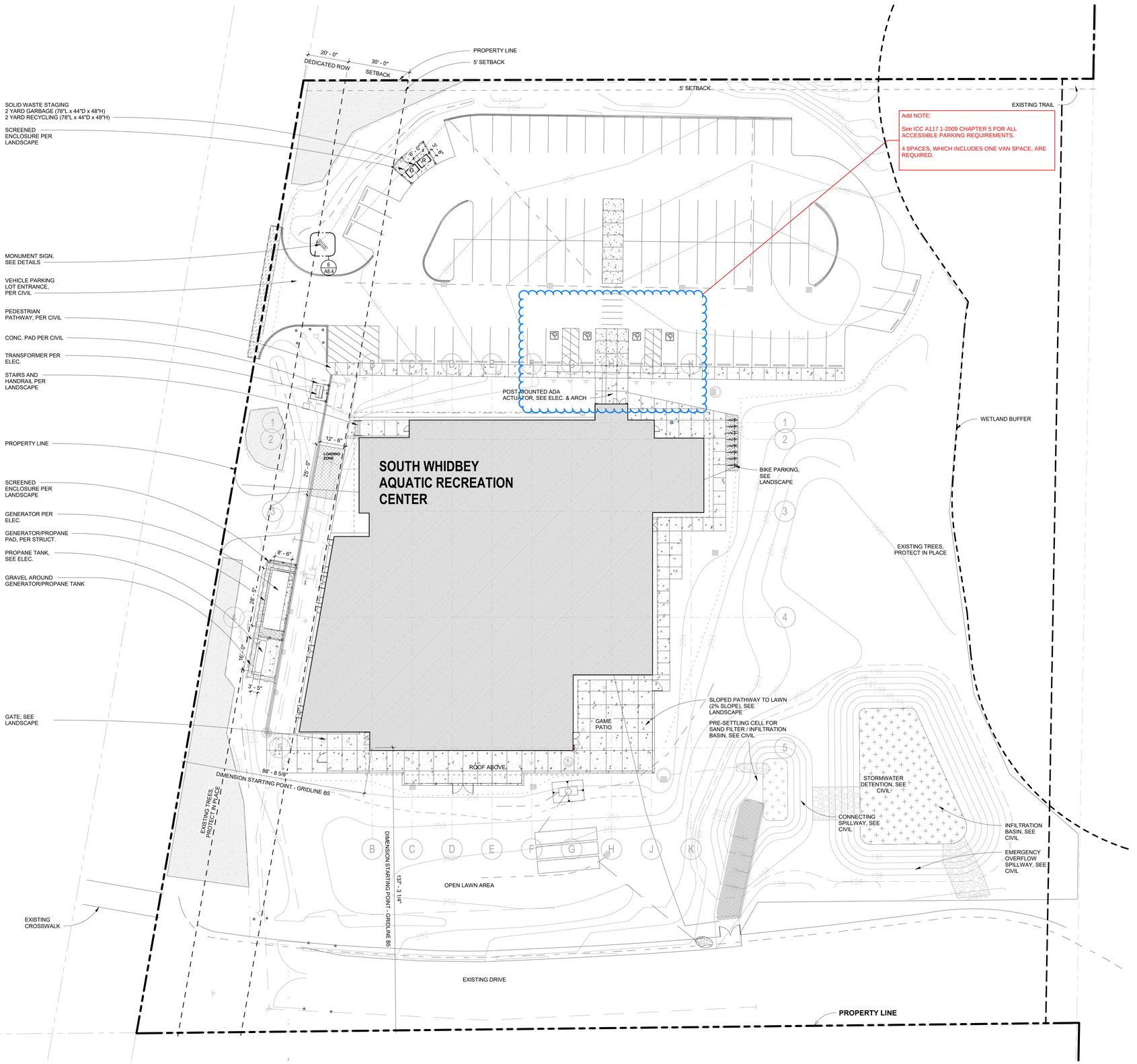
LANDSCAPE IRRIGATION DETAILS

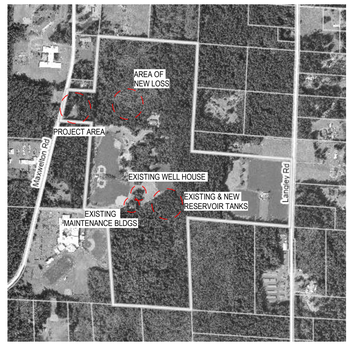
SCALE: As indicated
DRAWN: MPF / SAJ
CHECKED: SAJ
PROJECT NO: 5812

SHEET:

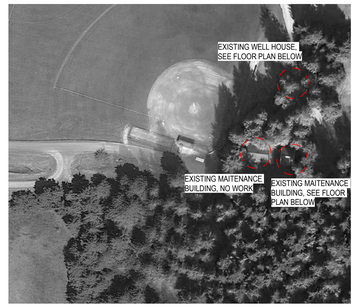
L4.5



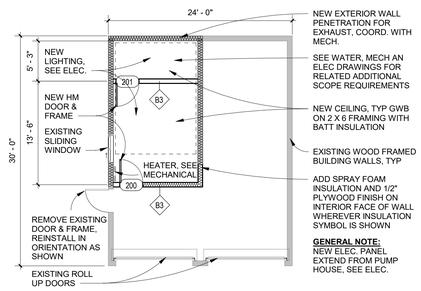
1 SITE PLAN
1" = 20'-0"



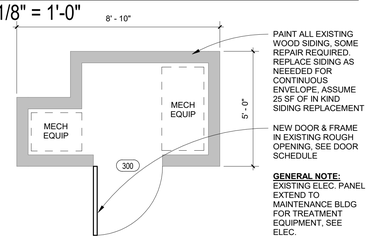
KEY PLAN



KEY PLAN ENLARGED



2 EXISTING MAINTENANCE BLDG
1/8" = 1'-0"



3 EXISTING WELL HOUSE
3/8" = 1'-0"

SITE PLAN NOTES:

1. COORDINATE NEW WORK WITH SITE SURVEY. NOTIFY ARCHITECT OF ANY UNFORESEEN CONDITIONS.

2. MAINTAIN ACCESS AROUND THE SITE TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCITON.

3. NOTIFY ARCHITECT OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND PROJECT DOCUMENTS THAT WILL REQUIRE ADDITIONAL WORK OR WILL NOT ALLOW THE PROJECT DOCUMENT SCOPE OF WORK TO BE COMPLETED AS SHOWN.

4. SEE CIVIL DRAWINGS FOR TESC REQUIREMENTS, TEMPORARY FENCING, GRADING, DRAINAGE, CURB, SIDEWALKS, PAVING, UTILITIES, SITE RETAINING WALLS, ETC. GRAPHICS SHOWN HERE ARE FOR REFERENCE ONLY.

5. SEE LANDSCAPE DRAWINGS FOR TREE PROTECTION, PARKING LOT LAYOUT, STAIRS, RAILINGS, PAVING PATTERNS, LIGHTING LAYOUTS, IRRIGATION, AND PLANTING, ETC. GRAPHICS SHOWN HERE ARE FOR REFERENCE ONLY.

6. SEE ELECTRICAL DRAWINGS FOR NEW ELECTRICAL, FIBER, TELECOM, TRANSFORMER, AND LIGHTING.

7. SEE SEPTIC SHEETS FOR SEPTIC DESIGN AND LOCATION, SEE WATER SUPPLY SHEETS FOR WATER DESIGN AND LOCATION, BOTH THE WATER RESERVOIR TANK AND SEPTIC DRAINFIELD ARE REMOTE FROM THE SITE AND NOT SHOWN ON THIS SHEET.

8. THE EXTENTS OF WORK SHOWN ON THIS SHEET INCLUDES LARGE AREAS OF TREE CLEARING, SEE LANDSCAPE DRAWINGS FOR MORE INFORMATION. IN ADDITION TO THE TREE CLEARING REQUIRED BY THE WORK SHOWN ON THIS SHEET, THERE IS ALSO TREE CLEARING REQUIRED BY THE NEW WATER SYSTEM AND LOSS SYSTEM. SEE THE RESPECTIVE SHEETS FOR ESTIMATING THE TREE CLEARING AREAS ASSOCIATED WITH THOSE SCOPES.

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ISSUE DATE: JUNE 2, 2025

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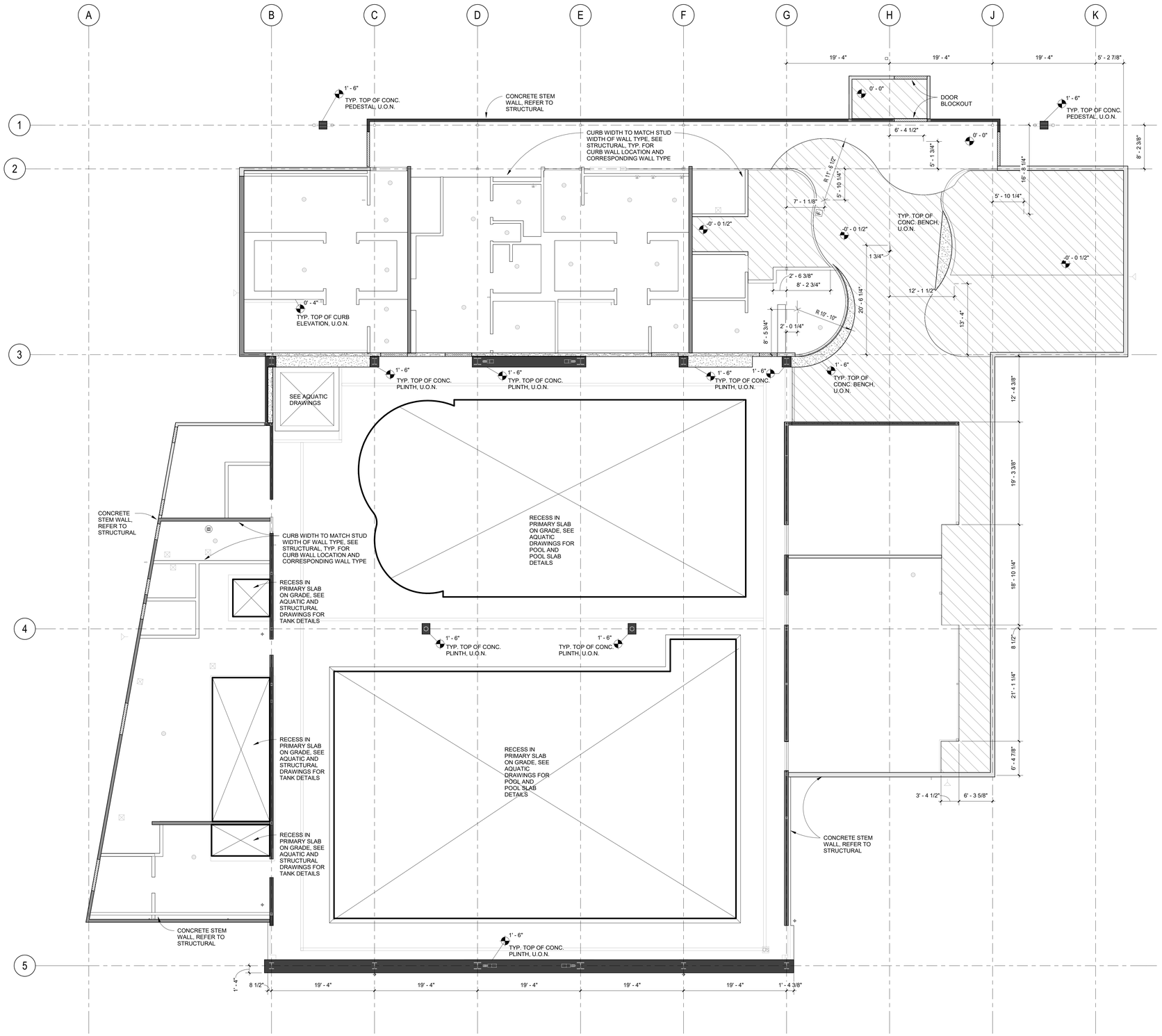
2		
3		

CONTENTS:
SITE PLAN

SCALE: As indicated
DRAWN: LP / ES / AP
CHECKED: PC / EW
PROJECT NO: 2022021.000

SHEET:
A1.1



1 SLAB PLAN
1/8" = 1'-0"

SLAB GRAPHIC LEGEND

- CONCRETE STEM WALL / PLINTH PER STRUCT, T.O. WALL 18 " ABOVE FIRST FLOOR FINISHED ELEVATION
- STEM WALL PER STRUCT, T.O. WALL 4" ABOVE FIRST FLOOR FINISHED ELEVATION
- CONCRETE STEM WALL PER STRUCT, 0" ABOVE FIRST FLOOR FINISHED ELEVATION
- OVER POURED CONCRETE CURB / PLINTH, T.O. WALL 18" ABOVE FIRST FLOOR FINISHED ELEVATION
- OVER POURED CONCRETE CURB, T.O. WALL 4" ABOVE FIRST FLOOR FINISHED ELEVATION
- RECESSED CONCRETE SLAB, SEE PLAN FOR ELEVATION
- DOOR BLOCKOUT, SEE STRUCT
- ELEVATION RELATIVE TO FIRST FLOOR FINISHED ELEVATION

SLAB PLAN NOTES

- REFER TO T1.0 FOR GENERAL NOTES
- REFER TO STRUCTURAL FOR FOOTING ELEVATIONS, SIZES AND DEPTHS
- REFER TO MECHANICAL DRAWINGS FOR RADIANT HEAT AT SLABS AND FOR FLOOR, SHOWER AND DECK DRAIN LOCATIONS AND OTHER BELOW SLAB PIPING.
- REFER TO POOL DRAWINGS FOR POOL PROFILES, PIPING, PUMP SURGE TANK AND EQUIPMENT PIT INFORMATION
- REFER TO ELECTRICAL DRAWINGS FOR BELOW SLAB CONDUIT LOCATIONS.
- ALL ELEVATIONS NOTED ON THE ARCHITECTURAL SHEETS ARE BASED OFF OF A TOP OF SLAB VERTICAL DATUM WHERE THE TOP OF SLAB IS 0' - 0" (205' - 0" PER REAL WORLD ELEVATION. SEE SURVEY AND CIVIL)

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1		

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SLAB PLAN

SCALE: As indicated
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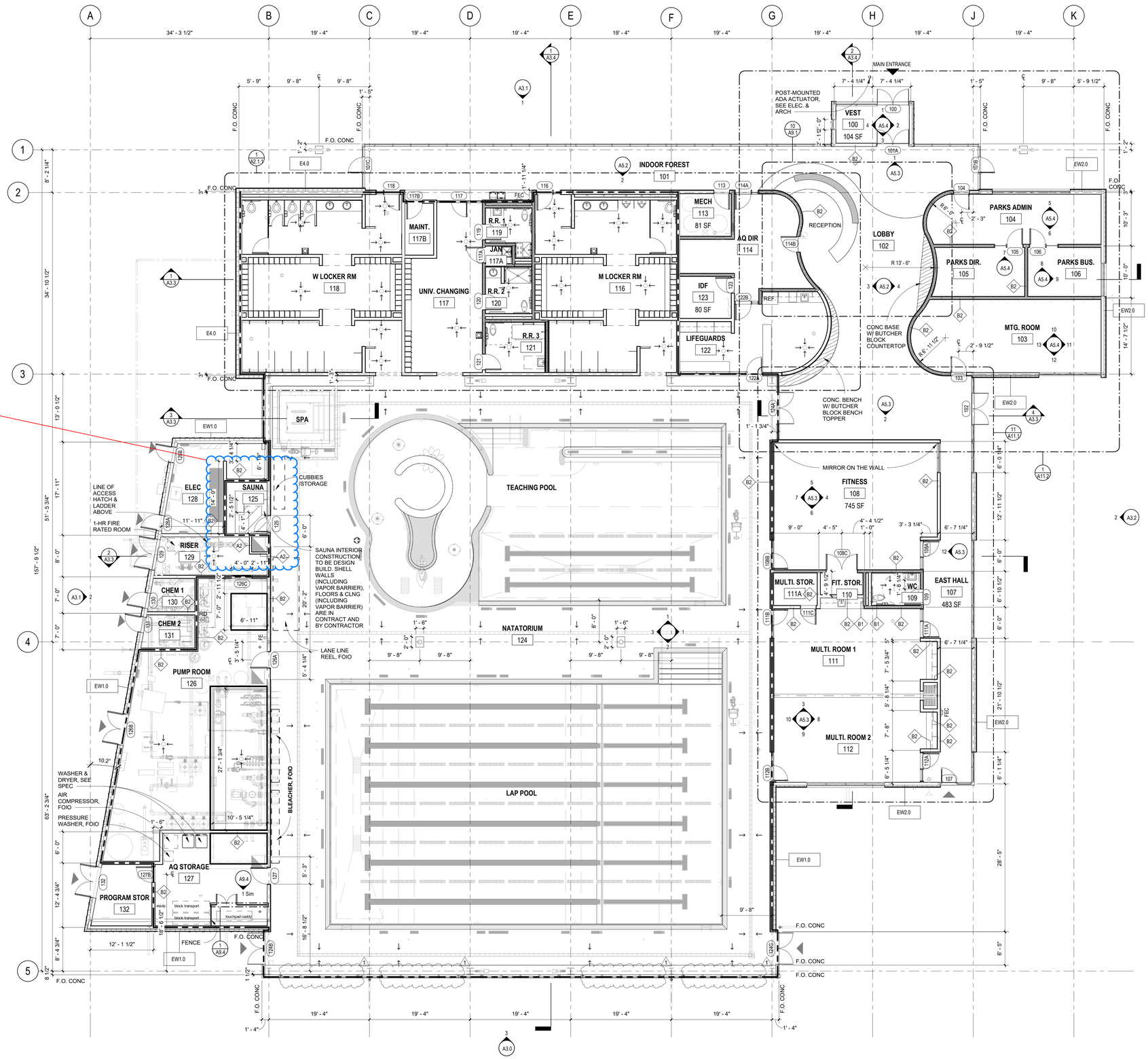
CHECKED: PC / EW
PROJECT NO: 2022021.000

SHEET:
A2.0



SAUNA REQUIREMENTS

PROVIDE ALL SAUNA INFORMATION FOR REVIEW PRIOR TO CONSTRUCTION OF SAUNA.

ARE THERE ANY OTHER NOTES THAT DEFER INFORMATION WE NEED PRIOR TO CONSTRUCTION?

1 LEVEL 1 - T.O. SLAB
1/8" = 1'-0"

PLAN NOTES:

1. REFER TO T1.0 FOR GENERAL NOTES
2. SEE CIVIL & LANDSCAPE DRAWINGS FOR SITE CONDITIONS BEYOND THE BUILDING PERIMETER
3. SEE BUILDING SECTIONS FOR WALL, FLOOR, AND ROOF ASSEMBLIES U.O.N
4. SEE BUILDING ELEVATIONS FOR EXTERIOR MATERIALS & DETAILING
5. SEE ROOF PLAN FOR ROOF MATERIALS AND DETAILING
6. REFER TO SCHEDULE SHEETS FOR ADDITIONAL INFORMATION INCLUDING PARTITION AND DOOR SCHEDULES
7. ROOMS W/ CAPACITY GREATER THAN 50 OCCUPANTS SHALL HAVE CLEARLY VISIBLE SIGNAGE INDICATING OCCUPANT CAPACITY FOR THAT ROOM
8. ALL ELEVATIONS NOTED ON THE ARCHITECTURAL SHEETS ARE BASED OFF OF A TOP OF SLAB VERTICAL DATUM WHERE THE TOP OF SLAB IS 0' - 0" (205' - 0" PER REAL WORLD ELEVATION, SEE SURVEY AND CIVIL)
9. PARITION TYPE TO BE (B2) U.O.N.
10. ADDITIONAL PARTITION TAGS AND WALL DIMENSIONING FOUND IN ENLARGED FLOOR PLANS
11. ALL FURNITURE TO BE F.O.I.O
12. SEE DOOR SCHEDULE SHEET FOR TYPICAL DOOR LOCATIONS WHEN ADJACENT TO PERPENDICULAR WALL
13. ALL SOFFIT WALLS TO BE TYPE (A1) U.O.N. REFER TO RCP SHEET A6.1
14. REFER TO A9.5 & A9.6 FOR SIGNAGE DETAILS

POOL & LOCKER ROOM WATERPROOFING NOTES:

POOL AREA, LOCKER ROOMS, POOL MECHANICAL AND OTHER ROOMS WITHIN THE NATATORIUM ENVIRONMENT REQUIRE SPECIAL CARE IN TERMS OF THE LOCATION OF VARYING TYPES OF WALLBOARD, AND TYPES AND LOCATIONS OF AIR AND WEATHER-RESISTANT BARRIERS. SEE FLOOR PLAN GRAPHIC LEGEND FOR BOUNDARY DESIGNATION OF NATATORIUM ENVIRONMENT SHOWN ON PLANS.

GYPSUM WALLBOARD WITHIN THIS BOUNDARY:
1. EXPOSED TO VIEW GWB WALLS AND CEILINGS WITHIN NATATORIUM ENVIRONMENT TO HAVE MOISTURE-RESISTANT, MOLD-RESISTANT GYPSUM WALL BOARD, PER SECTION 092900 "GYPSUM BOARD."
2. TILE WALLS TO HAVE GYPSUM TILE BACKER BOARD, PER SECTION 092900 "GYPSUM BOARD."
3. WALLS ABOVE CEILING SPACES MAY SUBSTITUTE GLASS-MAT INTERIOR GYPSUM BOARD, PER SECTION 092900 "GYPSUM BOARD."

GYPSUM WALLBOARD AT ALL OTHER AREAS:
1. UNLESS OTHER WISE NOTED, EXPOSED TO VIEW WALLS AND CEILINGS TO HAVE GYPSUM WALLBOARD, PER SECTION 092900 "GYPSUM BOARD."
2. TILE WALLS TO HAVE GYPSUM TILE BACKER BOARD, PER SECTION 092900 "GYPSUM BOARD."
3. WALLS ABOVE CEILING SPACES MAY SUBSTITUTE GLASS-MAT INTERIOR GYPSUM BOARD, PER SECTION 092900 "GYPSUM BOARD", EXCEPT WHERE CEILINGS DO NOT EXTEND TO WALLS (FLOATING CLOUDS).

SEALING AT PERIMETER OF NATATORIUM ENVIRONMENT:
1. THE AIR AND VAPOR CONTROL MEMBRANE MUST BE CONTINUOUS AROUND THE NATATORIUM ENVIRONMENT. SEE INTERIOR DETAILS FOR ADDITIONAL INFORMATION ON MAINTAINING VAPOR BARRIER CONTINUITY AT WALL AND CEILING INTERSECTIONS. SEAL ALL PENETRATIONS, PERIMETERS AND TRANSITIONS AT THIS BOUNDARY PERIMETER.
2. ALL FLOOR/CEILING AND WALL PENETRATIONS BETWEEN NATATORIUM AND NON-NATATORIUM SPACES MUST TO BE POSITIVELY SEALED. REFER TO INTERIOR DETAILS AND PARTITION SCHEDULE LOCATED ON SHEET A7.1.

LOCATION AND TYPES OF AIR AND WEATHER BARRIERS
1. AT WALLS WITHIN THE BOUNDARY OF THE NATATORIUM ENVIRONMENT, PROVIDE NON VAPOR PERMEABLE WRB. AT WALLS OUTSIDE THE BOUNDARY OF NATATORIUM ENVIRONMENT, PROVIDE VAPOR PERMEABLE WRB.
2. REFER TO EXTERIOR ROOF AND WALL ASSEMBLIES ON SHEETS A3.3 AND A3.4
3. REFER TO PARTITION SCHEDULE ON SHEET A7.1

FLOOR PLAN GRAPHIC LEGEND

- AREA FLOOR DRAIN
- WARP SLAB TO DRAIN, 1/4"/FT MAX
- TRENCH DRAIN
- WARP SLAB TO DRAIN, 1/4"/FT MAX
- PERIMETER BOUNDARY OF NATATORIUM ENVIRONMENT
- FIRE EXTINGUISHER CABINET WHERE SHOWN IN PLAN (FEC)
- CORNER GUARD WHERE CALLED OUT IN PLAN
- FIRE EXTINGUISHER (FE)
- POINT OF EGRESS, SEE EGRESS PLAN
- MAIN ENTRANCE, SEE EGRESS PLAN

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1	JUN 19 2025	BUILDING PERMIT COMMENT RESPONSES #2
2		

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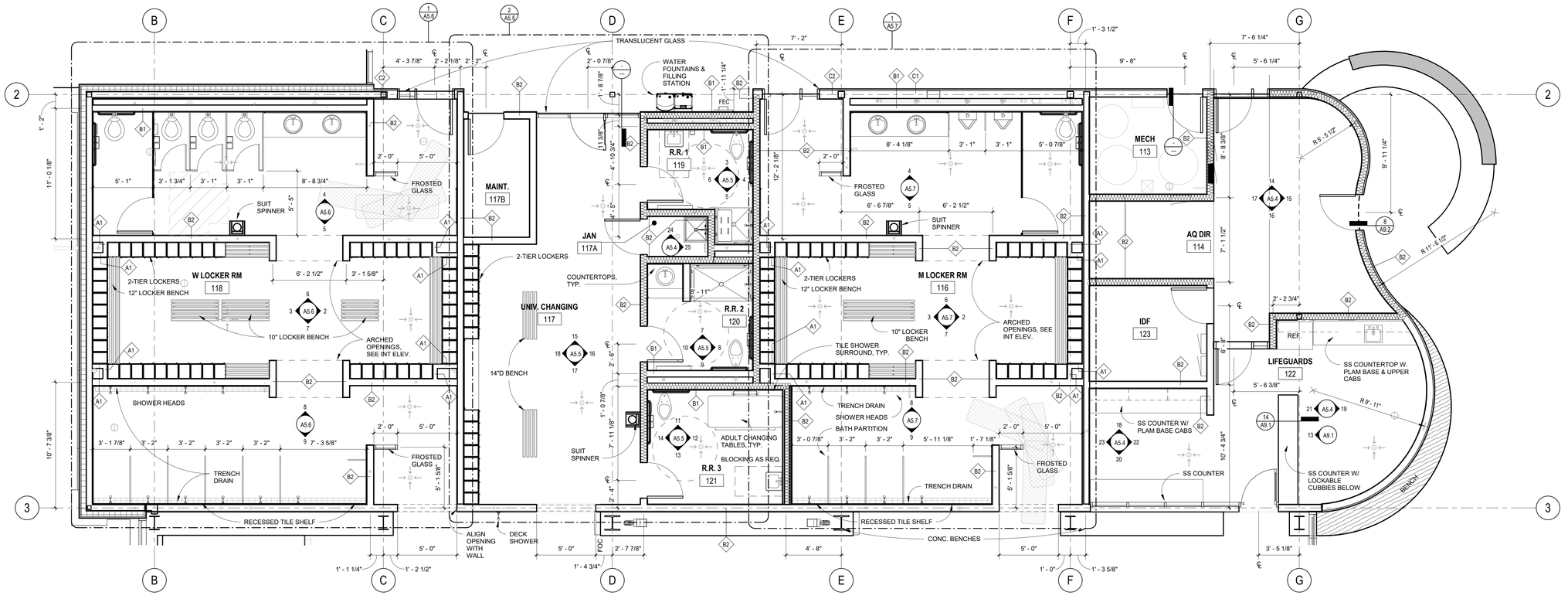
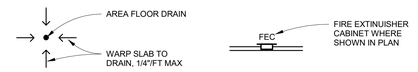
DRAWN: LP / ES / AP
CHECKED: PC / EW
PROJECT NO: 2022021.000

SHEET:
A2.1



1 ENLARGED LOCKERS AND OFFICE
1/4" = 1'-0"

ENLARGED FLOOR PLAN GRAPHIC LEGEND



PLAN NOTES:

1. REFER TO T1.0 FOR GENERAL NOTES
2. SEE CIVIL & LANDSCAPE DRAWINGS FOR SITE CONDITIONS BEYOND THE BUILDING PERIMETER
3. SEE BUILDING SECTIONS FOR WALL, FLOOR, AND ROOF ASSEMBLIES U.O.N
4. SEE BUILDING ELEVATIONS FOR EXTERIOR MATERIALS & DETAILING
5. SEE ROOF PLAN FOR ROOF MATERIALS AND DETAILING
6. REFER TO SCHEDULE SHEETS FOR ADDITIONAL INFORMATION INCLUDING PARTITION AND DOOR SCHEDULES
7. ROOMS W/ CAPACITY GREATER THAN 50 OCCUPANTS SHALL HAVE CLEARLY VISIBLE SIGNAGE INDICATING OCCUPANT CAPACITY FOR THAT ROOM
8. ALL ELEVATIONS NOTED ON THE ARCHITECTURAL SHEETS ARE BASED OFF OF A TOP OF SLAB VERTICAL DATUM WHERE THE TOP OF SLAB IS 0' - 0" (205' - 0" PER REAL WORLD ELEVATION, SEE SURVEY AND CIVIL)
9. PARITION TYPE TO BE (B2) U.O.N.
10. ADDITIONAL PARTITION TAGS AND WALL DIMENSIONING FOUND IN ENLARGED FLOOR PLANS
11. ALL FURNITURE TO BE F.O.I.O
12. SEE DOOR SCHEDULE SHEET FOR TYPICAL DOOR LOCATIONS WHEN ADJACENT TO PERPENDICULAR WALL
13. ALL SOFFIT WALLS TO BE TYPE (A1) U.O.N. REFER TO RCP SHEET A6.1
14. REFER TO A9.5 & A9.6 FOR SIGNAGE DETAILS

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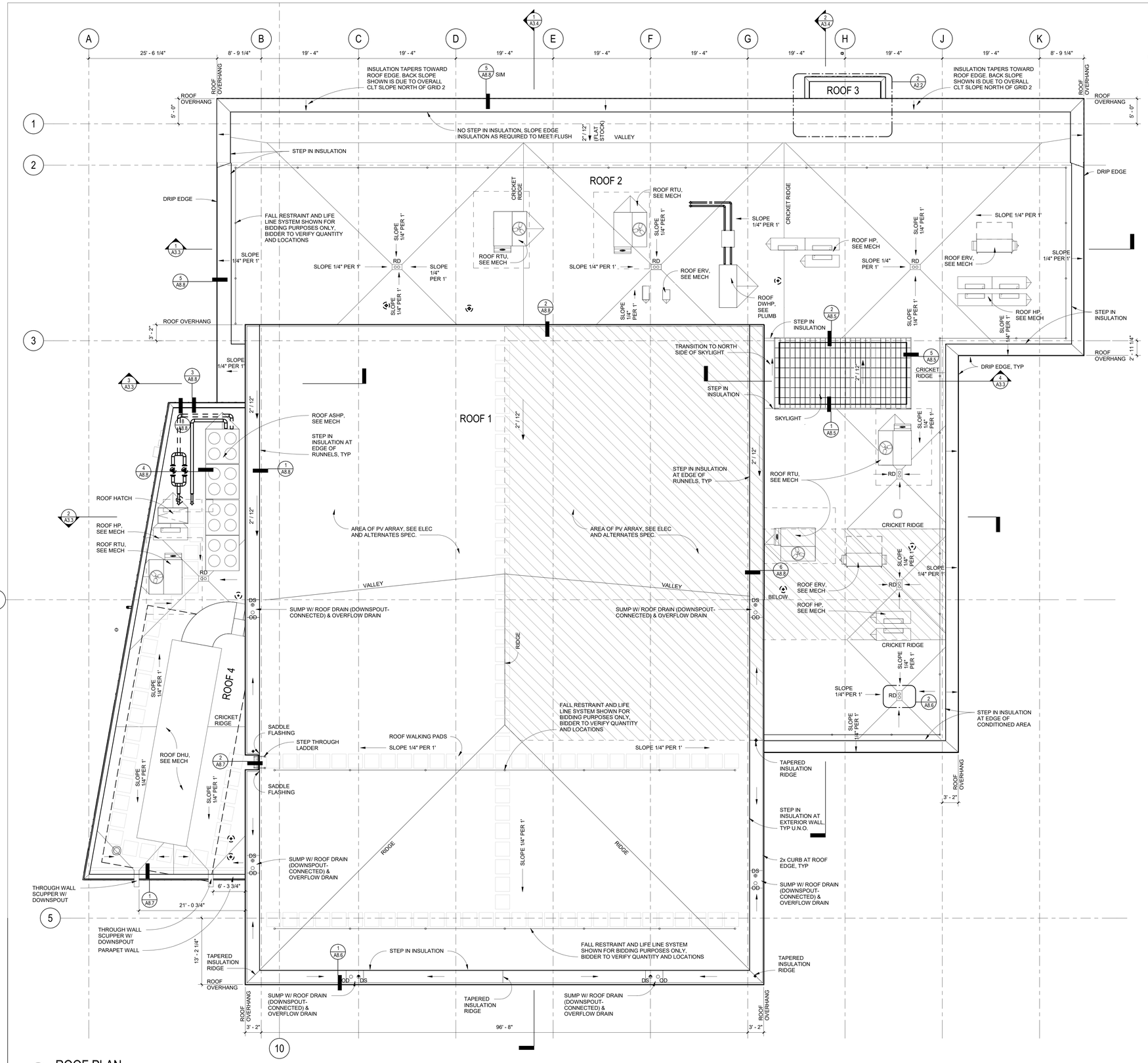
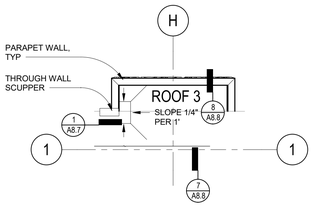
ENLARGED PLANS

SCALE: **As indicated**
DRAWN: **LP / ES / AP**
CHECKED: **PC / EW**
PROJECT NO: **2022021.000**

SHEET:
A2.1.1



1 ROOF PLAN
1/8" = 1'-0"



2 ROOF PLAN - VESTIBULE
1/8" = 1'-0"

ROOF PLAN NOTES:

1. FOR ROOF TYPE ASSEMBLIES - SEE BUILDING SECTIONS
2. INSTALL CONDUITS FOR EXPOSED CEILING MOUNTED DEVICES ABOVE THE ROOF SHEATING & TEMPORARY ROOF, AND WITHIN THE RIGID INSULATION. SPRAY FOAM AROUND ALL CONDUITS. SEAL CONDUIT PENETRATIONS DAILY TO PREVENT WATER INTRUSION DURING CONSTRUCTION.
3. SEE EXTERIOR ELEVATIONS FOR DOWNSPOUT LOCATIONS. COORDINATE WITH PLUMBING AND CIVIL. NOTIFY ARCHITECT OF ANY CONFLICTS.
4. SIZE FALL PROTECTION POSTS TO HAVE 10" FREE LENGTH OF POST ABOVE THE DEEPEST INSULATION LOCATION FOR WATERPROOFING. ALL POSTS TO BE THE SAME HEIGHT.
5. DRAWINGS INDICATE GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER, TYPICAL DETAILS SHALL APPLY.
6. ROOF PIPING AND VENT PENETRATION LOCATIONS ARE SHOWN FOR CONTRACTOR COORDINATION AND FOR DESIGN INTENT. FOR ACTUAL PENETRATION QUANTITIES REQUIRED, SEE MECH.
7. ROOFTOP EQUIPMENT-SPECIFIC CRICKETS, TYPICAL AND WHERE SHOWN

ROOF DRAIN AREA CALCS:

1. TOTAL ROOF AREA SERVED BY A SINGLE ROOF DRAIN IS 4,940 SF AND IS INDICATED BY THE HATCHED REGION ON THE ROOF PLAN:

2. PER APPENDIX A OF THE NATIONAL STANDARD PLUMBING CODE, THE PRECIPITATION RATE (INCHES/HOUR) BASED ON A 15-MINUTE PRECIPITATION PERIOD IN LANGELY, WASHINGTON IS 3"/HR
3. PER APPENDIX A OF THE NATIONAL STANDARD PLUMBING CODE, THE REQUIRED MINIMUM ROOF DRAIN LEADER PIPE DIAMETER FOR A 6,130 SF ROOF AREA EXPERIENCING A PRECIPITATION RATE OF 3"/HR IS 4 INCHES (12.56 SQUARE INCH OPEN AREA)
4. THE DESIGN ROOF DRAIN LEADER SIZE OF 4" DIAMETER IS ACCEPTABLE

ROOF DRAIN LEGEND:

DS	ROOF DRAIN/DOWNSPOUT @ ROOF EDGE/DOWNSPOUT CONDITION. CONNECT TO HARD-PIPED DOWNSPOUTS PER PLUMB & EXT. ELEVS.
OD	OVERFLOW DRAIN @ ROOF EDGE/DOWNSPOUT CONDITION. 2" RIM W/ OPEN PIPE AT UNDERSIDE OF ROOF
→	ROOF FLOW ARROW, 1/4" PER FT SLOPE, U.N.O.
RD	ROOF DRAIN / OVERFLOW DRAIN @ INTERNAL ROOF CONDITIONS. HARD PIPE TO STORMWATER SYSTEM PER PLUMBING DRAWINGS

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10644 REGISTERED ARCHITECT
PAUL ROSS CURTIS
STATE OF WASHINGTON

ISLAND COUNTY
Reviewed For
2021 IBC
Code Compliance
07/18/2025
Brian Boyle

S WHIDBEY PARKS & REC
AQUATIC REC CENTER
5491 MAXWELTON RD
LANGLEY, WA 98260

South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

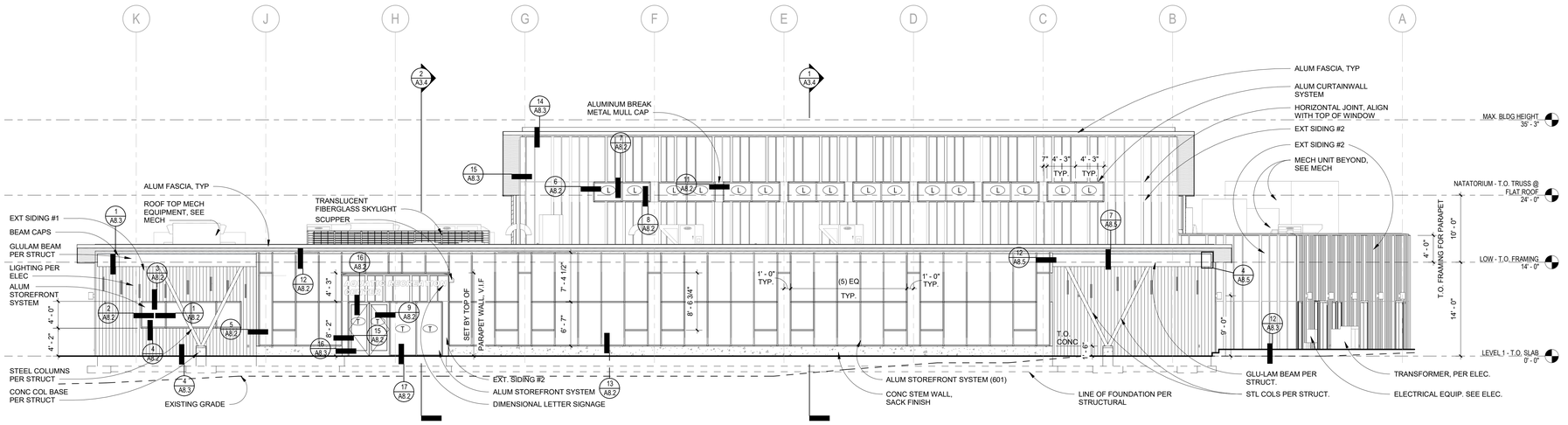
ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description

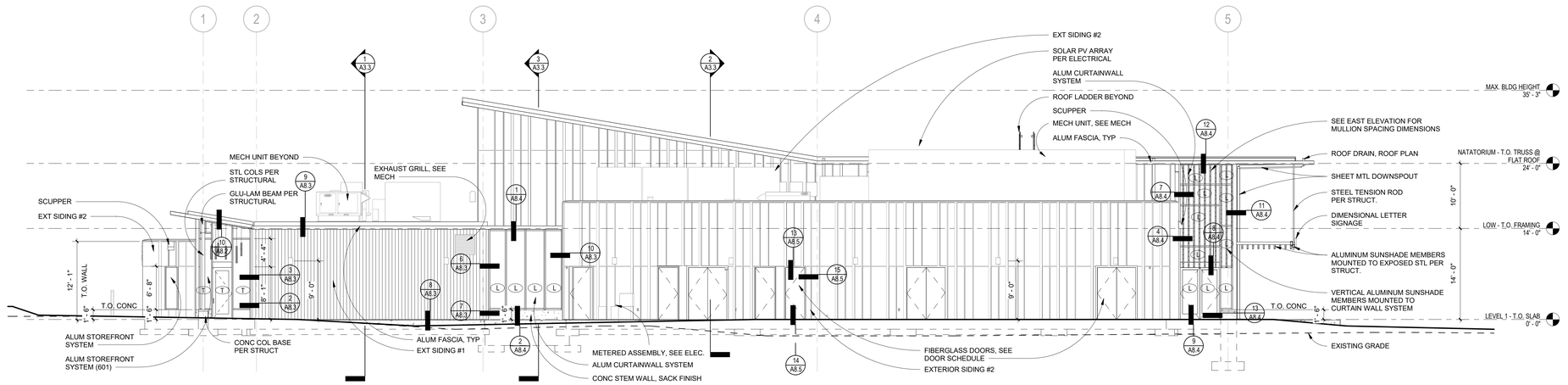
CONTENTS:
ROOF PLAN

SCALE: As indicated
DRAWN: LP / ES / AP
CHECKED: PC / EW
PROJECT NO: 2022021.000

SHEET:
A2.2



1 NORTH ELEVATION
1/8" = 1'-0"



2 WEST ELEVATION
1/8" = 1'-0"

ELEVATION LEGEND

1. ALL EXTERIOR GLAZING IS INSULATED.

2. ALL INTERIOR GLAZING IS UN-INSULATED, EXCEPT; ALL INTERIOR GLAZING IS INSULATED ALONG THE BOUNDARY BETWEEN NATATORIUM AND NON-NATATORIUM ENVIRONMENTS. PER FLOOR PLAN DESIGNATION.

3. FOR GLAZING TYPES NOT TAGGED ON THE EXTERIOR ELEVATIONS (INTERIOR) SEE INTERIOR ELEVATIONS.

- CLEAR, UN-TEMPERED GLASS
- (T) TEMPERED GLASS
- (L) LAMINATED GLASS

ELEVATION NOTES:

1. REFER TO T1.0 FOR PROJECT GENERAL NOTES.
2. REFER TO A8.1 FOR SEALING OF WALL OPENINGS & PENETRATIONS
3. SEE BUILDING SECTIONS FOR EXTERIOR WALL, FLOOR, AND ROOF ASSEMBLIES
4. REFER TO ROOF PLANS FOR ROOF DETAIL CALLOUTS AND DESCRIPTIONS
5. DRAWINGS INDICATE GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER, TYPICAL DETAILS SHALL APPLY.
6. SEE A10.1 FOR FINISHES APPLIED TO EXT BUILDING COMPONENTS SCHEDULE.

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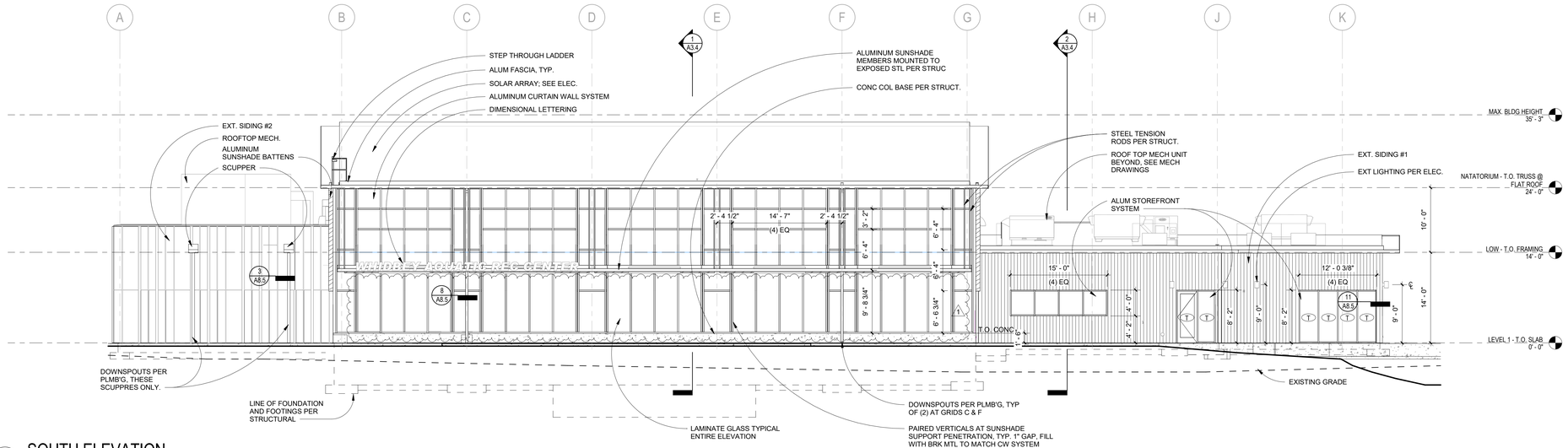
CONTENTS:

EXTERIOR ELEVATIONS

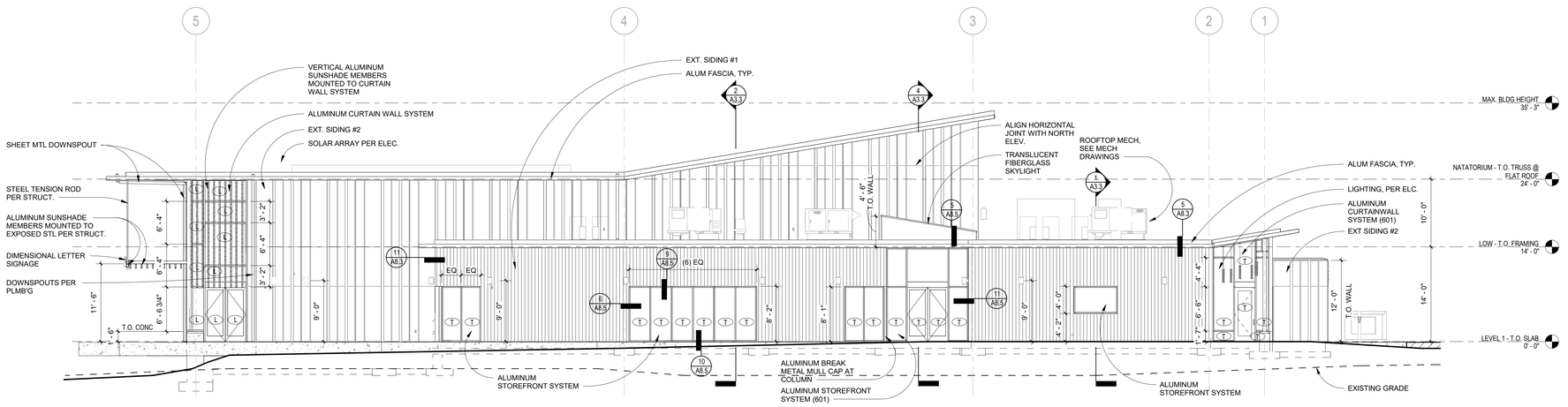
SCALE:	As indicated
DRAWN:	LP / ES / AP
CHECKED:	PC / EW
PROJECT NO:	2022021.000

SHEET:

A3.1



1 SOUTH ELEVATION
1/8" = 1'-0"



2 EAST ELEVATION
1/8" = 1'-0"

ELEVATION LEGEND

1. ALL EXTERIOR GLAZING IS INSULATED.

2. ALL INTERIOR GLAZING IS UN-INSULATED, EXCEPT; ALL INTERIOR GLAZING IS INSULATED ALONG THE BOUNDARY BETWEEN NATATORIUM AND NON-NATATORIUM ENVIRONMENTS. PER FLOOR PLAN DESIGNATION.

3. FOR GLAZING TYPES NOT TAGGED ON THE EXTERIOR ELEVATIONS (INTERIOR) SEE INTERIOR ELEVATIONS.

CLEAR, UN-TEMPERED GLASS

(T) TEMPERED GLASS

(L) LAMINATED GLASS

ELEVATION NOTES:

1. REFER TO T1.0 FOR PROJECT GENERAL NOTES.
2. REFER TO A8.1 FOR SEALING OF WALL OPENINGS & PENETRATIONS
3. SEE BUILDING SECTIONS FOR EXTERIOR WALL, FLOOR, AND ROOF ASSEMBLIES
4. REFER TO ROOF PLANS FOR ROOF DETAIL CALLOUTS AND DESCRIPTIONS
5. DRAWINGS INDICATE GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER, TYPICAL DETAILS SHALL APPLY.
6. SEE A10.1 FOR FINISHES APPLIED TO EXT BUILDING COMPONENTS SCHEDULE.

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CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE

Rev #	Date	Description
1	JUN 19 2025	BUILDING PERMIT COMMENT RESPONSES #2

CONTENTS:

EXTERIOR ELEVATIONS

SCALE: As indicated
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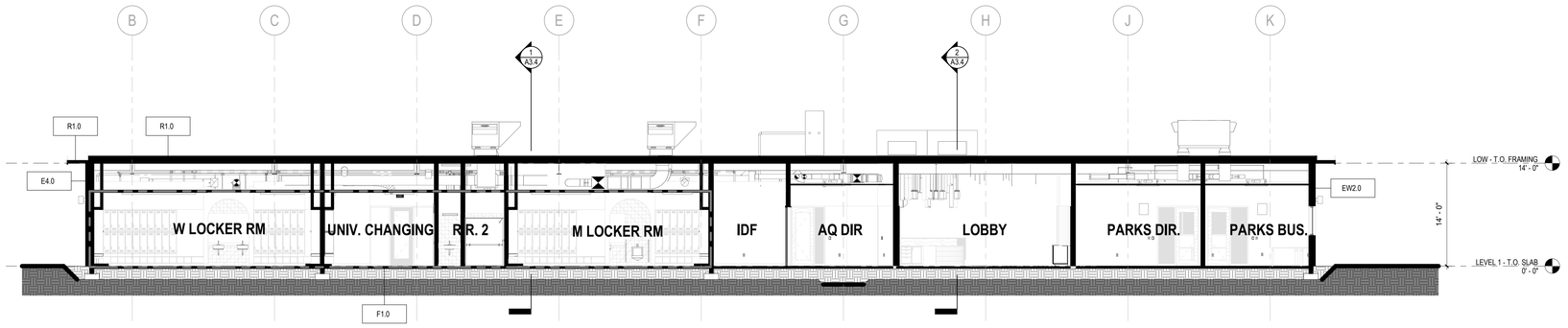
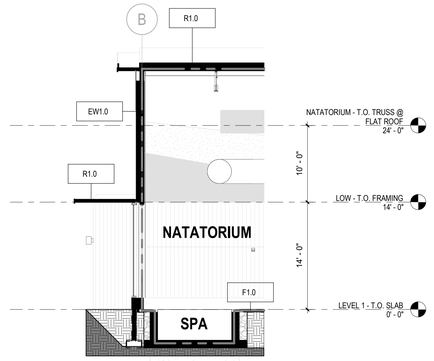
CHECKED: PC / EW
PROJECT NO: 2022021.000

SHEET:

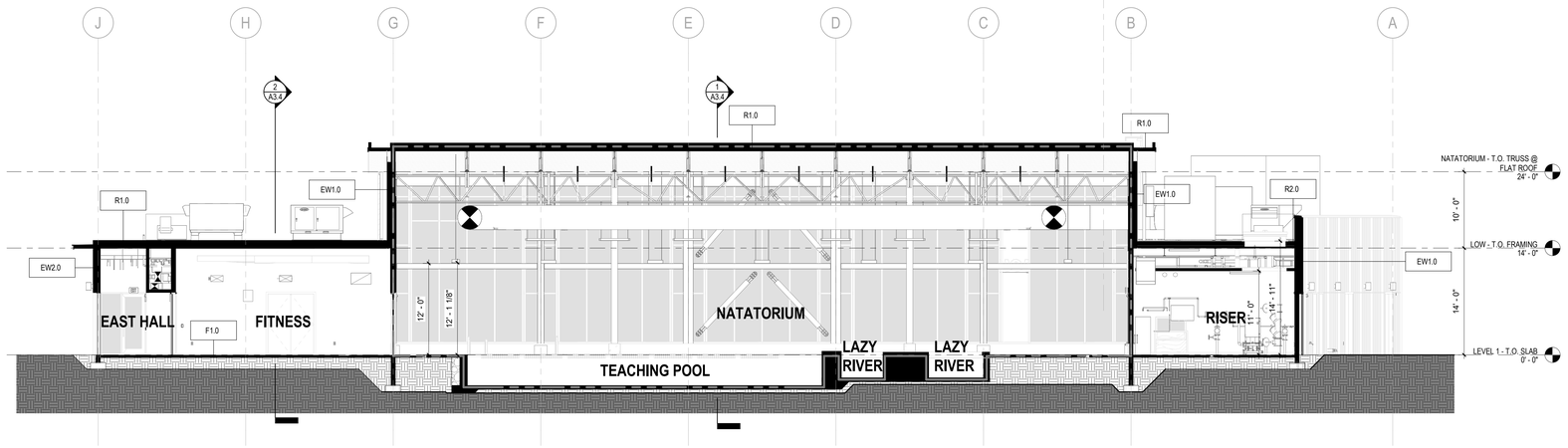
A3.2



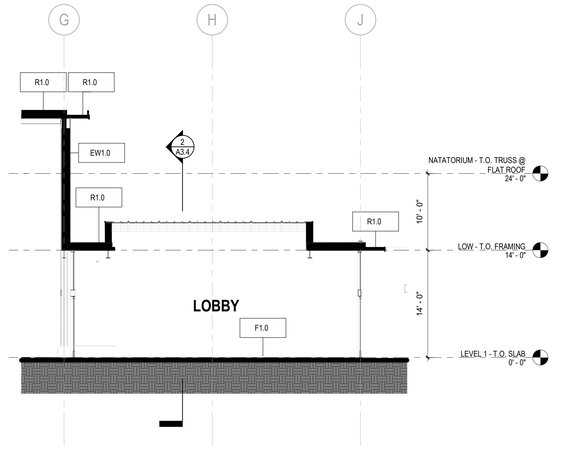
1 BLDG SECTION E/W 1
1/8" = 1'-0"



3 BLDG SECTION E/W 3
1/8" = 1'-0"

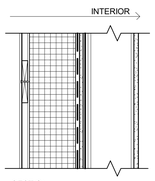


2 BLDG SECTION E/W 2
1/8" = 1'-0"



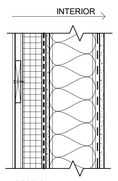
4 BLDG SECTION E/W 4
1/8" = 1'-0"

EXTERIOR WALL ASSEMBLIES



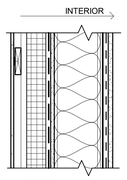
EW1.0 (NATATORIUM): METAL STUD WALL, CEMENTITIOUS PANEL SIDING

- CEMENTITIOUS PANEL SIDING OVER
- 1x6 P.T. PT STRAPPING @ 16"o.c. OVER
- CONT MINERAL WOOL BOARD INSUL R-4.2/IN (5" MIN) OVER
- SELF-ADHERED, VAPOR IMPERMEABLE WEATHER RESISTANT BARRIER OVER
- EXTERIOR MOISTURE RESISTANT GYPSUM PANEL SUBSTRATE OVER
- SHEET METAL SHEATHING WHERE OCCURS AND LAYERS (PER STRUCT) OVER
- MTL STUD FRAMING (PER STRUCT) OVER
- INTERIOR FINISHES PER FLOOR PLAN, INT ELEVS, AND FINISH SCHEDULE



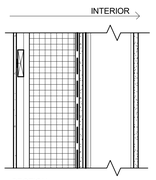
EW3.0 (NON-NATATORIUM): METAL STUD WALL, CEMENTITIOUS PANEL SIDING

- CEMENTITIOUS PANEL SIDING OVER
- 1x6 P.T. STRAPPING @ 16"o.c. OVER
- CONT MINERAL WOOL BOARD INSUL R4.2/IN (2 1/2" MIN) OVER
- SELF-ADHERED, VAPOR PERMEABLE WEATHER RESISTANT BARRIER OVER
- EXTERIOR MOISTURE RESISTANT GYPSUM PANEL SUBSTRATE OVER
- MTL STUD FRAMING (STUD DEPTH PER STRUCT) W/ R-21 CAVITY INSULATION OVER
- VAPOR RETARDING MEMBRANE
- INTERIOR FINISHES PER FLOOR PLAN, INT ELEVS, AND FINISH SCHEDULE



EW2.0 (NON-NATATORIUM): METAL STUD WALL, HPL SIDING

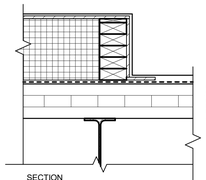
- HIGH-PRESSURE LAMINATE (HPL) SIDING OVER
- 1x4 P.T. HORIZONTAL PT STRAPPING @ 16"o.c. OVER
- 1x4 P.T. VERTICAL PT STRAPPING @ 16"o.c. OVER
- CONT MINERAL WOOL BOARD INSUL R-4.2/IN (2 1/2" MIN) OVER
- SELF-ADHERED, VAPOR PERMEABLE WEATHER RESISTANT BARRIER OVER
- EXTERIOR MOISTURE RESISTANT GYPSUM PANEL SUBSTRATE OVER
- MTL STUD FRAMING (STUD DEPTH PER STRUCT) W/ R-21 CAVITY INSULATION OVER
- SHEET METAL SHEATHING WHERE OCCURS, 2 LAYERS, (PER STRUCT.) OVER
- VAPOR RETARDING MEMBRANE
- INTERIOR FINISHES PER FLOOR PLAN, INT ELEVS, AND FINISH SCHEDULE



EW4.0 (NATATORIUM): METAL STUD WALL, HPL SIDING

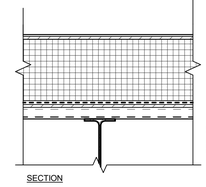
- HIGH-PRESSURE LAMINATE (HPL) SIDING OVER
- 1x4 P.T. HORIZONTAL PT STRAPPING @ 16"o.c. OVER
- 1x4 P.T. VERTICAL PT STRAPPING @ 16"o.c. OVER
- CONT MINERAL WOOL BOARD INSUL R-4.2/IN (5" MIN) OVER
- SELF-ADHERED, VAPOR IMPERMEABLE WEATHER RESISTANT BARRIER OVER
- EXTERIOR MOISTURE RESISTANT GYPSUM PANEL SUBSTRATE OVER
- SHEET METAL SHEATHING WHERE OCCURS AND LAYERS, (PER STRUCT) OVER
- MTL STUD FRAMING (PER STRUCT) OVER
- INTERIOR FINISHES PER FLOOR PLAN, INT ELEVS, AND FINISH SCHEDULE

EXTERIOR ROOF ASSEMBLIES



R1.0: SINGLE-PLY MEMBRANE ROOFING AT CLT (ROOFS 1 AND 2)

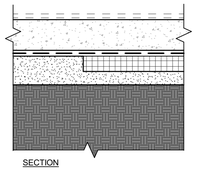
- SINGLE-PLY MEMBRANE ROOFING OVER
- ROOFING GRADE COVERBOARD OVER
- POLYISO INSULATION R-6.5/IN. (MIN 7.5"). TAPER MIN 1/4" PER FOOT PER ROOF PLAN. (OMIT PER ROOF PLAN) OVER
- TEMPORARY ROOF / VAPOR AND AIR BARRIER OVER
- CLT PANELS PER STRUCTURAL OVER
- FRAMING MEMBERS PER STRUCTURAL OVER
- CEILING ASSEMBLY (WHERE OCCURS) PER RCP, FINISH SCHEDULE



R2.0: SINGLE-PLY MEMBRANE ROOFING AT METAL DECK (ROOFS 3 AND 4)

- SINGLE-PLY MEMBRANE ROOFING OVER
- ROOFING GRADE COVERBOARD OVER
- POLYISO INSULATION R-6.5/IN. (MIN 7.5"). TAPER MIN 1/4" PER FOOT PER ROOF PLAN. (OMIT PER ROOF PLAN) OVER
- TEMPORARY ROOF / VAPOR AND AIR BARRIER OVER
- ROOF BOARD OVER
- METAL DECK PER STRUCTURAL OVER
- FRAMING MEMBERS PER STRUCTURAL OVER
- CEILING ASSEMBLY (WHERE OCCURS) PER RCP, FINISH SCHEDULE

FLOOR ASSEMBLIES



F1.0: CONCRETE SLAB-ON-GRADE

- FINISH VARIES (SEE FINISH PLANS, FINISH SCHEDULE) OVER
- CONCRETE SLAB PER STRUCTURAL OVER
- UNDERSLAB VAPOR BARRIER OVER
- XPS INSULATION MIN. R-10 (WITHIN 24" OF SLAB PERIMETER, TYP) OVER
- CAPILLARY BREAK PER SOILS REPORT OVER
- STRUCTURAL FILL OR UNDESTURBED SOIL PER SOILS REPORT

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REVISION SCHEDULE		
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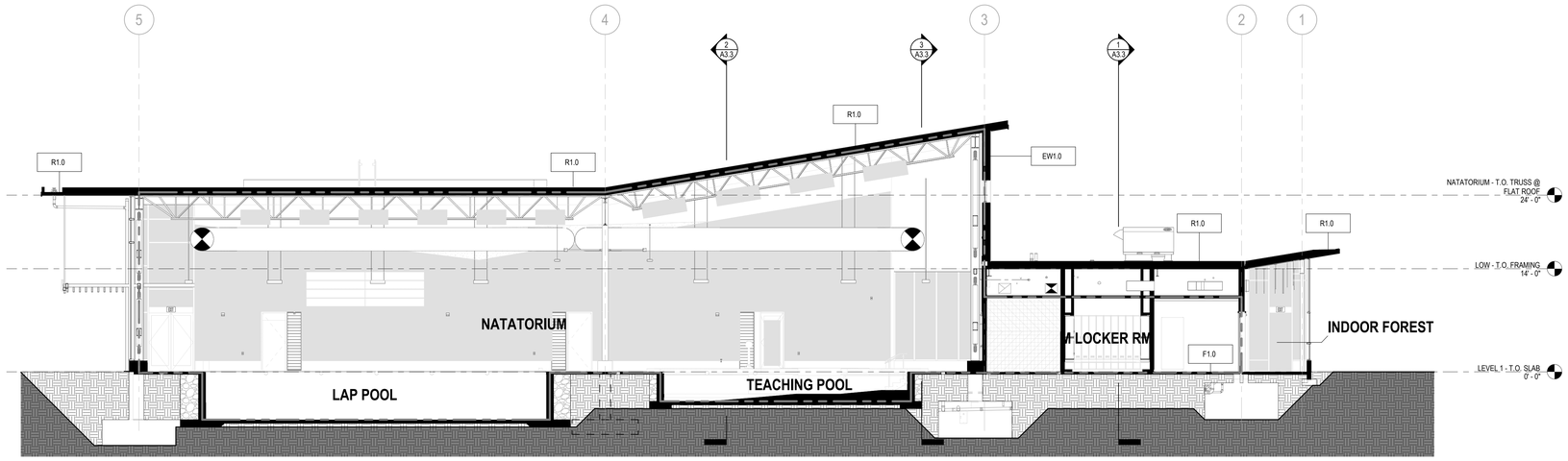
CONTENTS:

BUILDING SECTIONS

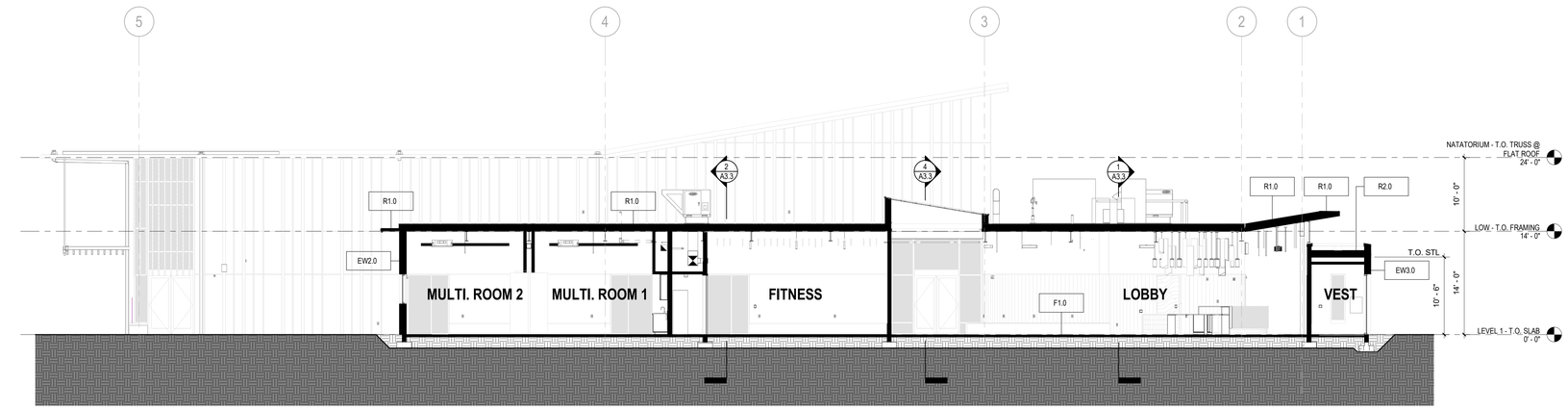
SCALE:	As indicated
DRAWN:	LP / ES / AP
CHECKED:	PC / EW
PROJECT NO:	2022021.000

SHEET:

A3.3

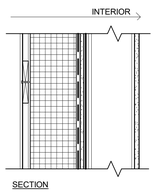


1 BLDG SECTION N/S 3
1/8" = 1'-0"



2 BLDG SECTION N/S 2
1/8" = 1'-0"

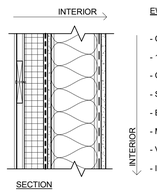
EXTERIOR WALL ASSEMBLIES



SECTION

EW1.0 (NATATORIUM): METAL STUD WALL, CEMENTITIOUS PANEL SIDING

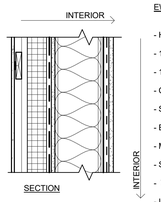
- CEMENTITIOUS PANEL SIDING OVER
- 1x6 P.T. PT STRAPPING @ 16"o.c. OVER
- CONT MINERAL WOOL BOARD INSUL R-4.2/IN (5" MIN) OVER
- SELF-ADHERED, VAPOR IMPERMEABLE WEATHER RESISTANT BARRIER OVER
- EXTERIOR MOISTURE RESISTANT GYPSUM PANEL SUBSTRATE OVER
- SHEET METAL SHEATHING WHERE OCCURS AND LAYERS (PER STRUCT) OVER
- MTL STUD FRAMING (PER STRUCT) OVER
- INTERIOR FINISHES PER FLOOR PLAN, INT ELEVS, AND FINISH SCHEDULE



SECTION

EW3.0 (NON-NATATORIUM): METAL STUD WALL, CEMENTITIOUS PANEL SIDING

- CEMENTITIOUS PANEL SIDING OVER
- 1x6 P.T. STRAPPING @ 16"o.c. OVER
- CONT MINERAL WOOL BOARD INSUL R4.2/IN (2 1/2" MIN) OVER
- SELF-ADHERED, VAPOR PERMEABLE WEATHER RESISTANT BARRIER OVER
- EXTERIOR MOISTURE RESISTANT GYPSUM PANEL SUBSTRATE OVER
- MTL STUD FRAMING (STUD DEPTH PER STRUCT) W/ R-21 CAVITY INSULATION OVER
- VAPOR RETARDING MEMBRANE
- INTERIOR FINISHES PER FLOOR PLAN, INT ELEVS, AND FINISH SCHEDULE



SECTION

EW2.0 (NON-NATATORIUM): METAL STUD WALL, HPL SIDING

- HIGH-PRESSURE LAMINATE (HPL) SIDING OVER
- 1x4 P.T. HORIZONTAL PT STRAPPING @ 16"o.c. OVER
- 1x4 P.T. VERTICAL PT STRAPPING @ 16"o.c. OVER
- CONT MINERAL WOOL BOARD INSUL R-4.2/IN (2 1/2" MIN) OVER
- SELF-ADHERED, VAPOR PERMEABLE WEATHER RESISTANT BARRIER OVER
- EXTERIOR MOISTURE RESISTANT GYPSUM PANEL SUBSTRATE OVER
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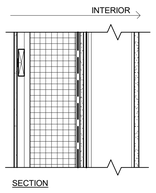

SECTION

EW4.0 (NATATORIUM): METAL STUD WALL, HPL SIDING

- HIGH-PRESSURE LAMINATE (HPL) SIDING OVER
- 1x4 P.T. HORIZONTAL PT STRAPPING @ 16"o.c. OVER
- 1x4 P.T. VERTICAL PT STRAPPING @ 16"o.c. OVER
- CONT MINERAL WOOL BOARD INSUL R-4.2/IN (5" MIN) OVER
- SELF-ADHERED, VAPOR IMPERMEABLE WEATHER RESISTANT BARRIER OVER
- EXTERIOR MOISTURE RESISTANT GYPSUM PANEL SUBSTRATE OVER
- SHEET METAL SHEATHING WHERE OCCURS AND LAYERS, (PER STRUCT) OVER
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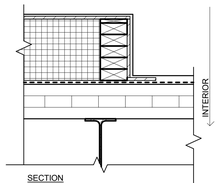
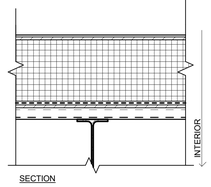
EXTERIOR ROOF ASSEMBLIES



SECTION

R1.0: SINGLE-PLY MEMBRANE ROOFING AT CLT (ROOFS 1 AND 2)

- SINGLE-PLY MEMBRANE ROOFING OVER
- ROOFING GRADE COVERBOARD OVER
- POLYISO INSULATION R-6.5/IN. (MIN 7.5"). TAPER MIN 1/4" PER FOOT PER ROOF PLAN. (OMIT PER ROOF PLAN) OVER
- TEMPORARY ROOF / VAPOR AND AIR BARRIER OVER
- CLT PANELS PER STRUCTURAL OVER
- FRAMING MEMBERS PER STRUCTURAL OVER
- CEILING ASSEMBLY (WHERE OCCURS) PER RCP, FINISH SCHEDULE

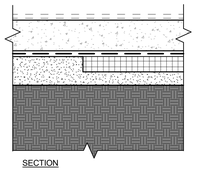


SECTION

R2.0: SINGLE-PLY MEMBRANE ROOFING AT METAL DECK (ROOFS 3 AND 4)

- SINGLE-PLY MEMBRANE ROOFING OVER
- ROOFING GRADE COVERBOARD OVER
- POLYISO INSULATION R-6.5/IN. (MIN 7.5"). TAPER MIN 1/4" PER FOOT PER ROOF PLAN. (OMIT PER ROOF PLAN) OVER
- TEMPORARY ROOF / VAPOR AND AIR BARRIER OVER
- ROOF BOARD OVER
- METAL DECK PER STRUCTURAL OVER
- FRAMING MEMBERS PER STRUCTURAL OVER
- CEILING ASSEMBLY (WHERE OCCURS) PER RCP, FINISH SCHEDULE

FLOOR ASSEMBLIES



SECTION

F1.0: CONCRETE SLAB-ON-GRADE

- FINISH VARIES (SEE FINISH PLANS, FINISH SCHEDULE) OVER
- CONCRETE SLAB PER STRUCTURAL OVER
- UNDERSLAB VAPOR BARRIER OVER
- XPS INSULATION MIN. R-10 (WITHIN 24" OF SLAB PERIMETER, TYP) OVER
- CAPILLARY BREAK PER SOILS REPORT OVER
- STRUCTURAL FILL OR UNDESTURBED SOIL PER SOILS REPORT

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Brian Boyle

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LANGLEY, WA 98260

South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description

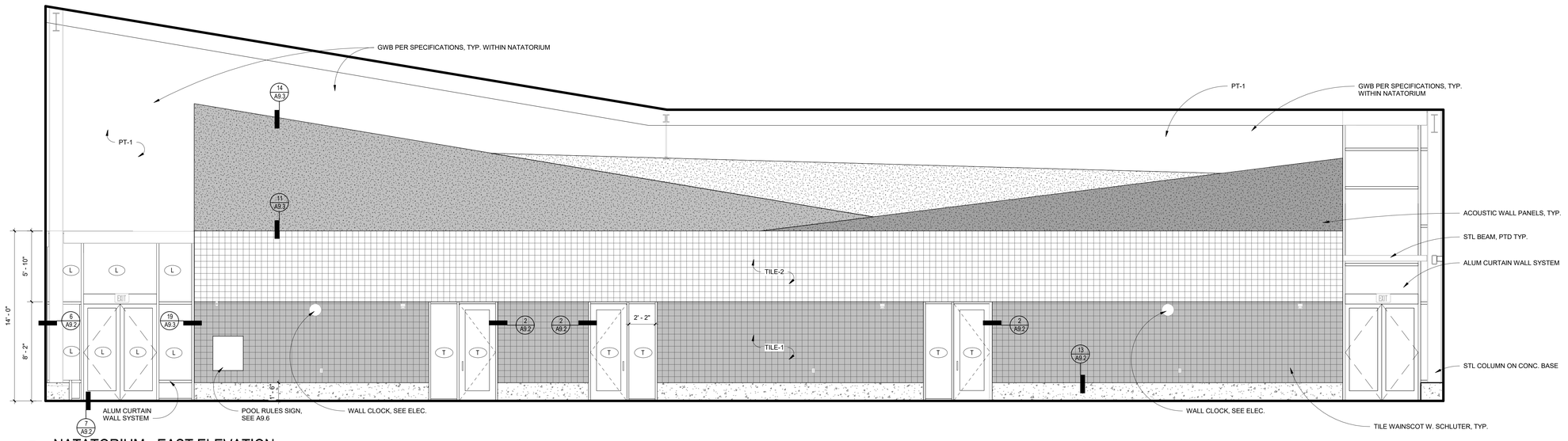
CONTENTS:

BUILDING SECTIONS

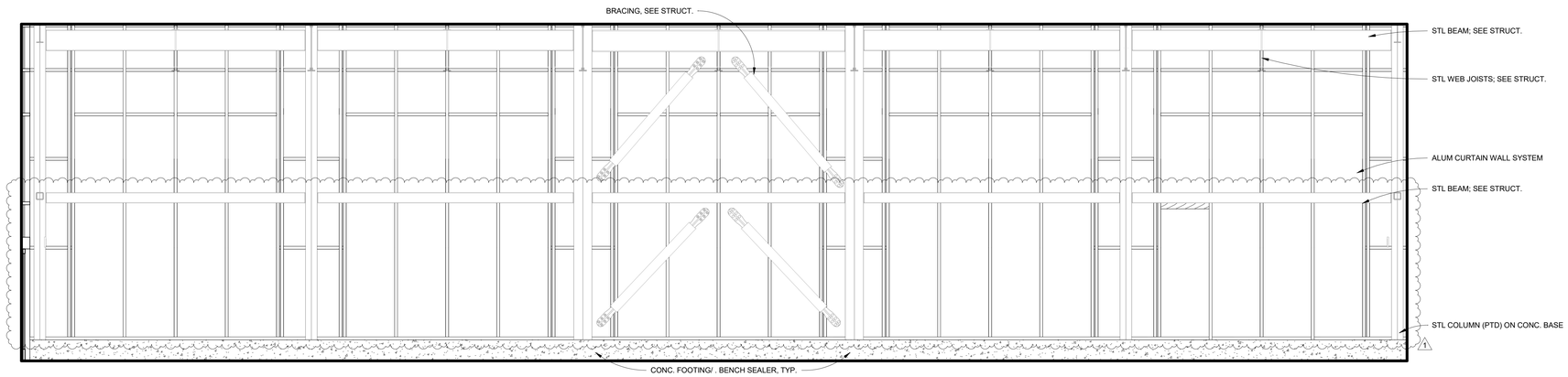
SCALE: As indicated
DRAWN: LP / ES / AP
CHECKED: PC / EW
PROJECT NO: 2022021.000

SHEET:

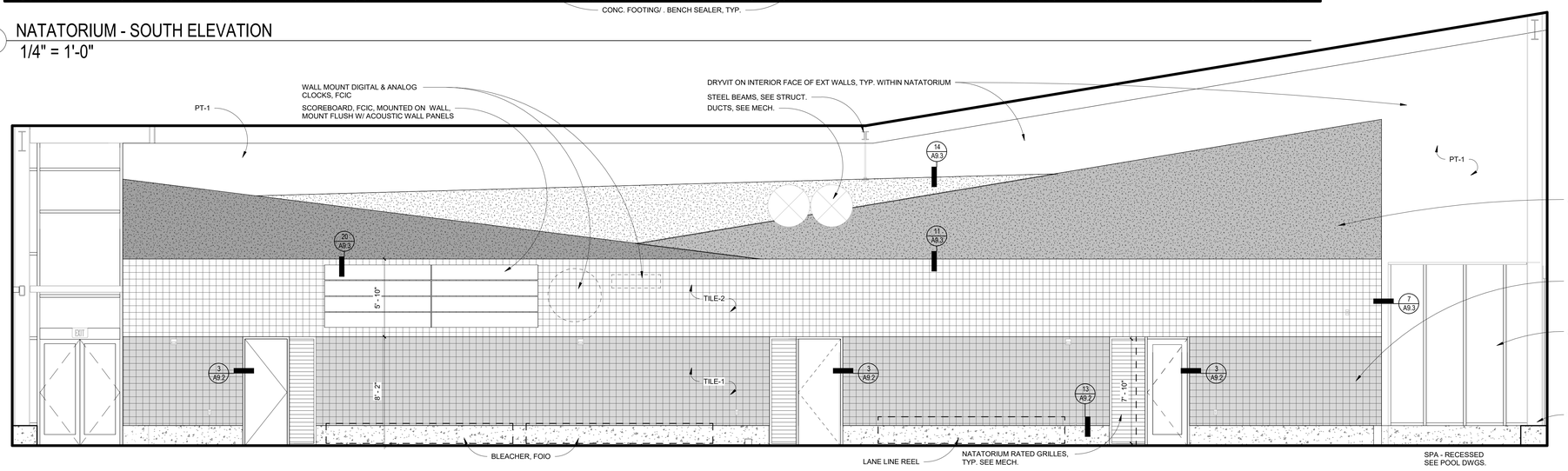
A3.4



1 NATATORIUM - EAST ELEVATION
1/4" = 1'-0"



2 NATATORIUM - SOUTH ELEVATION
1/4" = 1'-0"



3 NATATORIUM - WEST ELEVATION
1/4" = 1'-0"

INTERIOR FINISH LEGEND

- TILE 1 - 25% MIX
- TILE 2 - 25% MIX
- TILE 3 (PATTERN)
- TILE 4 (SOLID)
- TILE 5 (SOLID)
- ACOUSTIC WALL PANEL - PAINT ACCENT 1
- ACOUSTIC WALL PANEL - PAINT ACCENT 2
- ACOUSTIC WALL PANEL - PAINT ACCENT 3
- WD WOOD WALL PANELING
- (L) LAMINATE GLASS
- (CL) COLORED LAMINATE GLASS
- (T) TEMPERED GLASS
- (WL) WHITE LAMINATE GLASS

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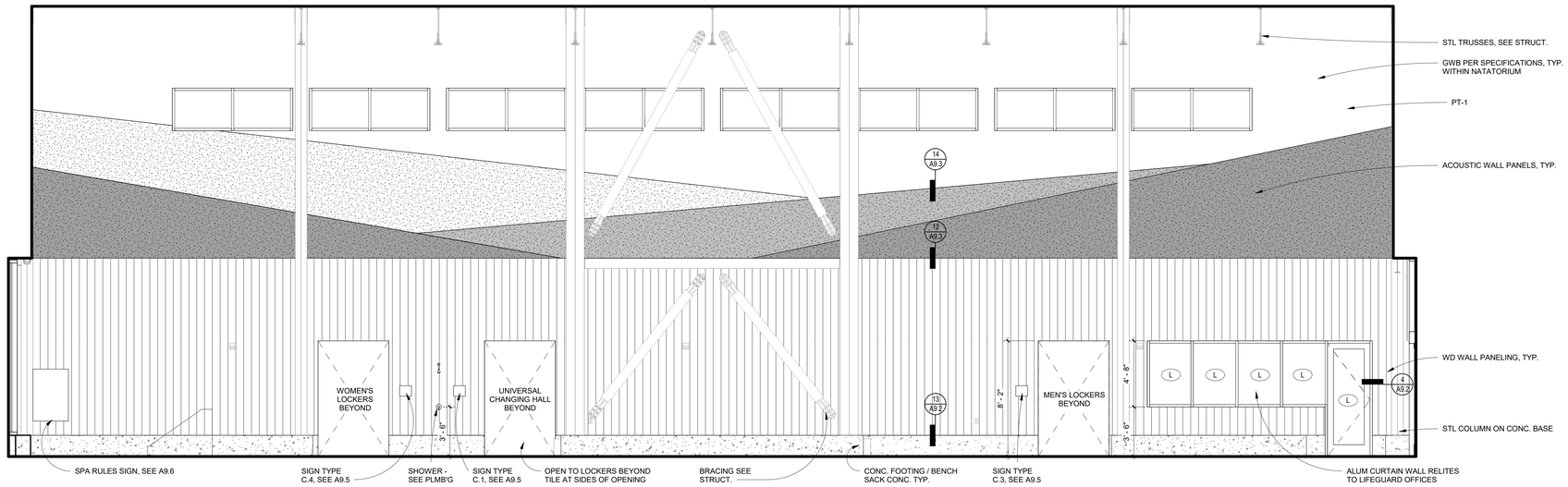
REVISION SCHEDULE

Rev #	Date	Description
1	JUN 19 2025	BUILDING PERMIT COMMENT RESPONSES #2

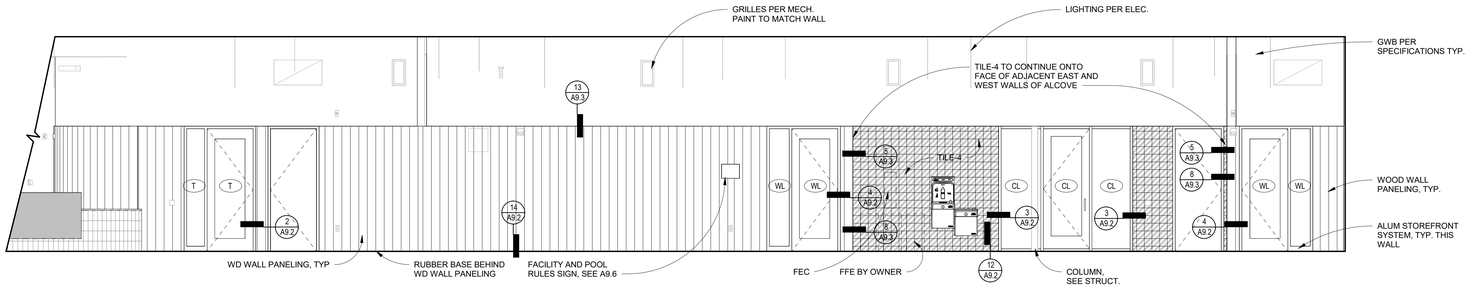
CONTENTS:
INTERIOR ELEVATIONS

SCALE: **As indicated**
DRAWN: **LP / ES / AP**
CHECKED: **PC / EW**
PROJECT NO: **2022021.000**

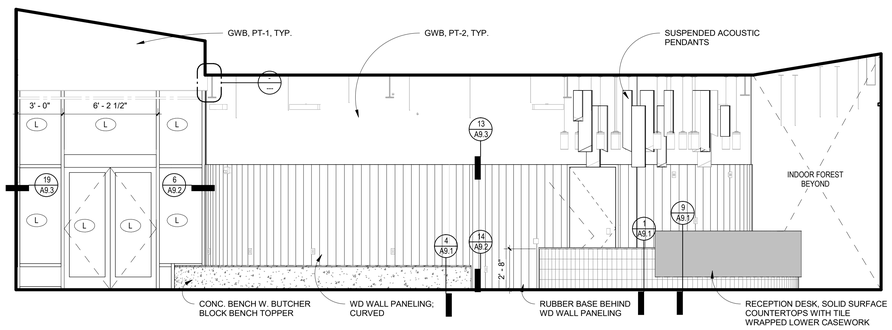
SHEET:
A5.1



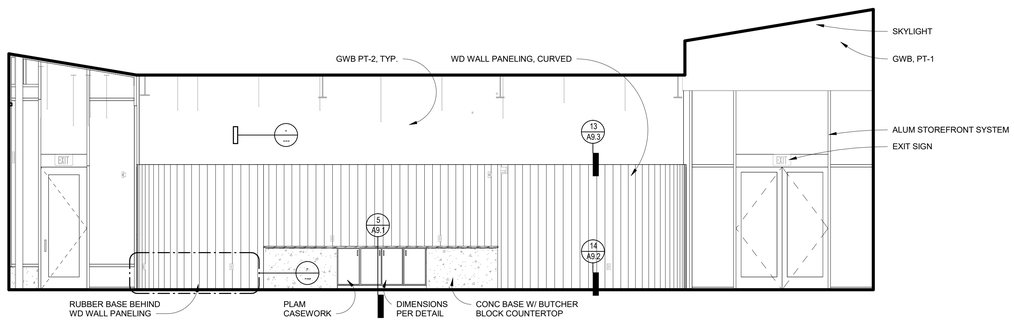
1 NATATORIUM - N ELEVATION
1/4" = 1'-0"



2 LOCKER CORRIDOR S ELEV
1/4" = 1'-0"



3 LOBBY W ELEV
1/4" = 1'-0"



4 LOBBY E ELEV
1/4" = 1'-0"

INTERIOR FINISH LEGEND

- TILE 1 - 25% MIX
- TILE 2 - 25% MIX
- TILE 3 (PATTERN)
- TILE 4 (SOLID)
- TILE 5 (SOLID)
- ACOUSTIC WALL PANEL - PAINT ACCENT 1
- ACOUSTIC WALL PANEL - PAINT ACCENT 2
- ACOUSTIC WALL PANEL - PAINT ACCENT 3
- WD WOOD WALL PANELING
- (L) LAMINATE GLASS
- (CL) COLORED LAMINATE GLASS
- (T) TEMPERED GLASS
- (WL) WHITE LAMINATE GLASS

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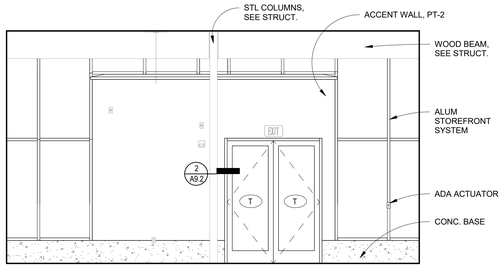
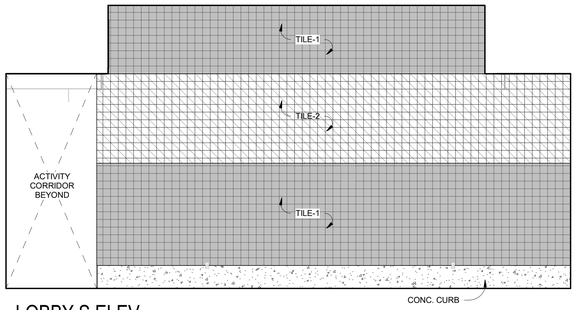
SHEET:
A5.2



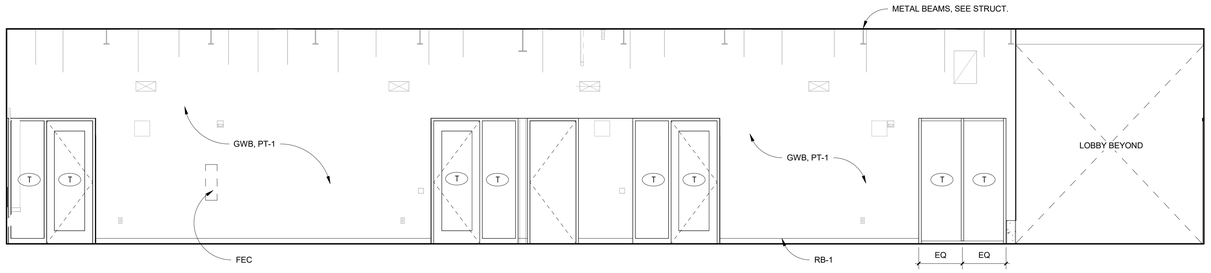
1 LOBBY N ELEV
1/4" = 1'-0"



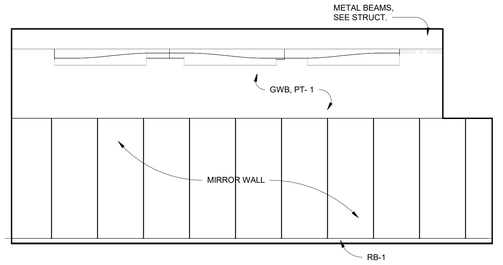
2 LOBBY S ELEV
1/4" = 1'-0"

INTERIOR FINISH LEGEND

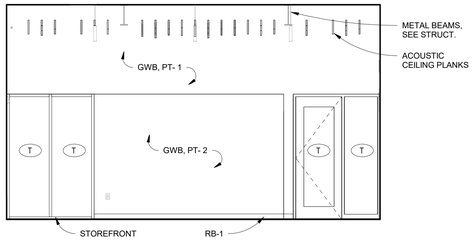
- TILE 1 - 25% MIX
- TILE 2 - 25% MIX
- TILE 3 (PATTERN)
- TILE 4 (SOLID)
- TILE 5 (SOLID)
- ACOUSTIC WALL PANEL - PAINT ACCENT 1
- ACOUSTIC WALL PANEL - PAINT ACCENT 2
- ACOUSTIC WALL PANEL - PAINT ACCENT 3
- WD WOOD WALL PANELING
- L — LAMINATE GLASS
- CL — COLORED LAMINATE GLASS
- T — TEMPERED GLASS
- WL — WHITE LAMINATE GLASS



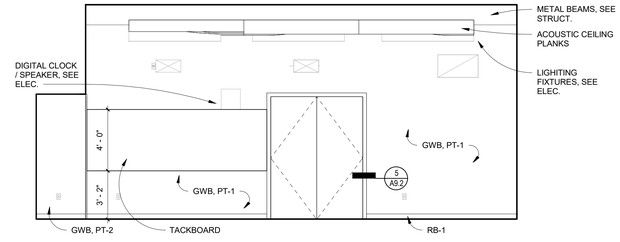
12 ACTIVITY CORRIDOR WEST
1/4" = 1'-0"



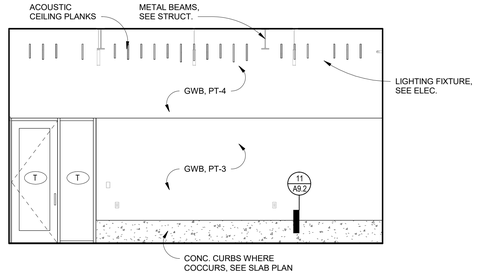
5 FITNESS - NORTH
1/4" = 1'-0"



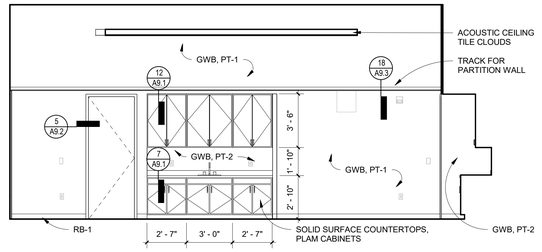
4 FITNESS - EAST
1/4" = 1'-0"



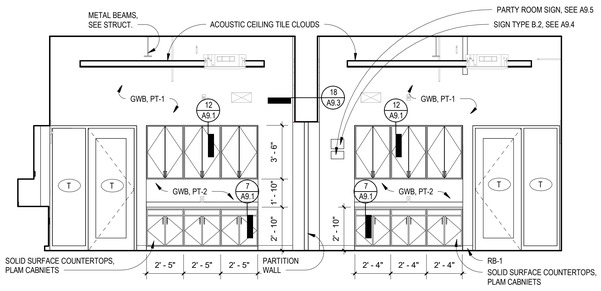
6 FITNESS - SOUTH
1/4" = 1'-0"



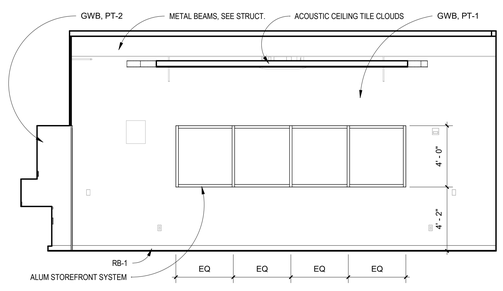
7 FITNESS - WEST
1/4" = 1'-0"



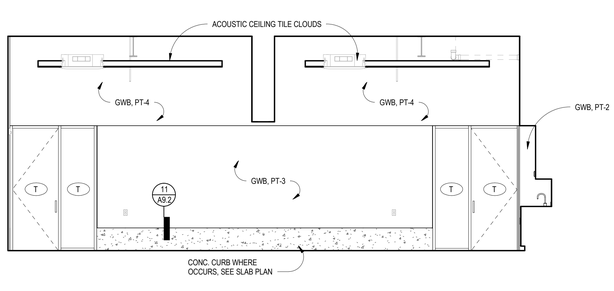
3 MULTIPURPOSE - NORTH
1/4" = 1'-0"



8 MULTIPURPOSE - EAST
1/4" = 1'-0"



9 MULTIPURPOSE - SOUTH
1/4" = 1'-0"



10 MULTIPURPOSE - WEST
1/4" = 1'-0"

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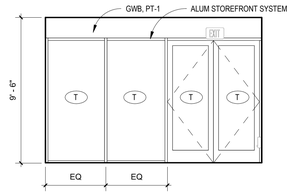
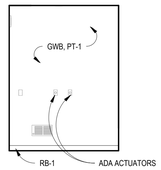
SHEET:

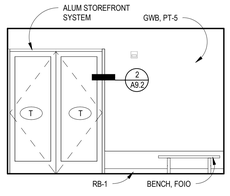
A5.3



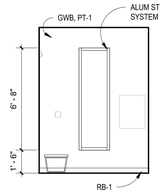
1 VESTIBULE - NORTH
1/4" = 1'-0"



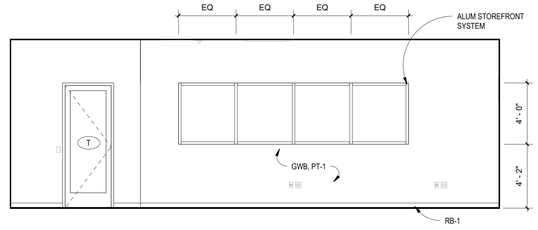
2 VESTIBULE - EAST
1/4" = 1'-0"



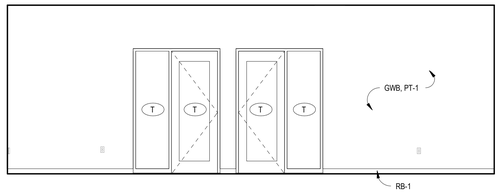
3 VESTIBULE - SOUTH
1/4" = 1'-0"



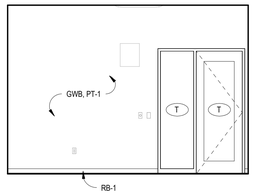
4 VESTIBULE - WEST
1/4" = 1'-0"



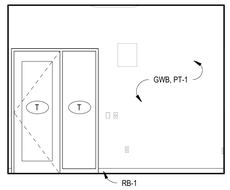
5 PARKS ADMIN - NORTH
1/4" = 1'-0"



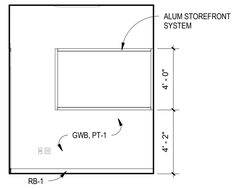
6 PARKS ADMIN - SOUTH
1/4" = 1'-0"



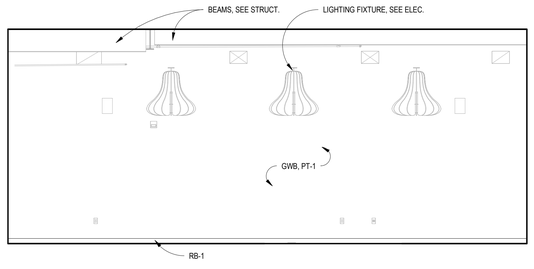
7 PARKS DIRECTOR - NORTH
1/4" = 1'-0"



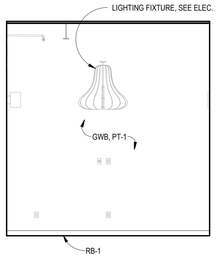
8 PARKS BUS. - NORTH
1/4" = 1'-0"



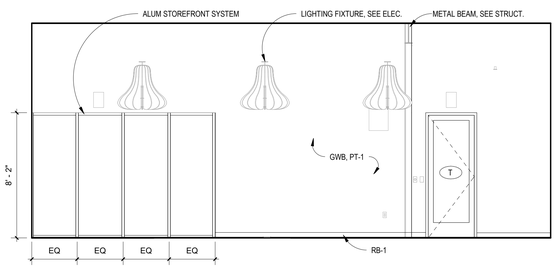
9 PARKS BUS. - EAST
1/4" = 1'-0"



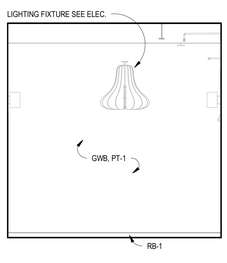
10 MEETING ROOM - NORTH
1/4" = 1'-0"



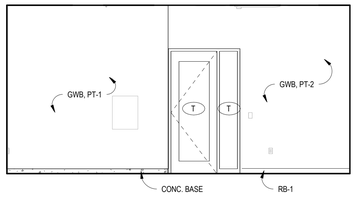
11 MEETING ROOM - EAST
1/4" = 1'-0"



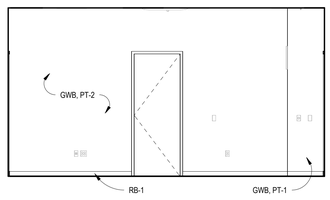
12 MEETING ROOM - SOUTH
1/4" = 1'-0"



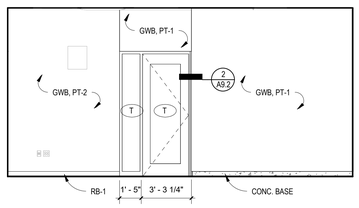
13 MEETING ROOM - WEST
1/4" = 1'-0"



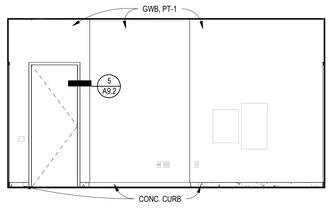
14 AQUATICS DIRECTOR - NORTH
1/4" = 1'-0"



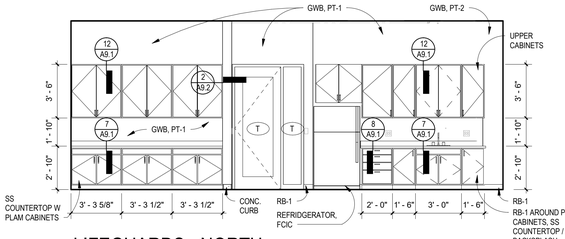
15 AQUATICS DIRECTOR - EAST
1/4" = 1'-0"



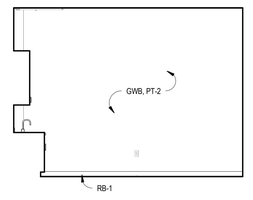
16 AQUATICS DIRECTOR - SOUTH
1/4" = 1'-0"



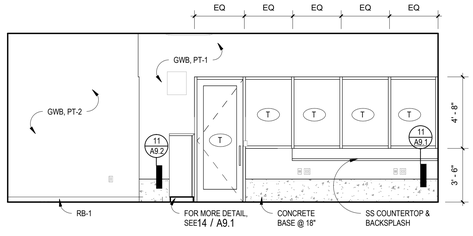
17 AQUATICS DIRECTOR - WEST
1/4" = 1'-0"



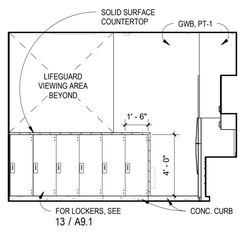
18 LIFEGUARDS - NORTH
1/4" = 1'-0"



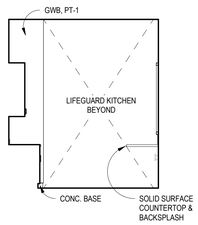
19 LIFEGUARDS - EAST
1/4" = 1'-0"



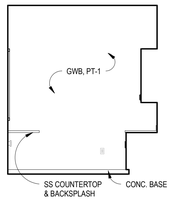
20 LIFEGUARDS - SOUTH
1/4" = 1'-0"



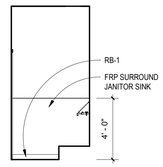
21 LIFEGUARDS - WEST
1/4" = 1'-0"



22 LIFEGUARDS - EAST 2
1/4" = 1'-0"



23 LIFEGUARDS - WEST 2
1/4" = 1'-0"



24 JANITOR - NORTH
1/4" = 1'-0"

25 JANITOR - EAST
1/4" = 1'-0"

INTERIOR FINISH LEGEND

- TILE 1 - 25% MIX
- TILE 2 - 25% MIX
- TILE 3 (PATTERN)
- TILE 4 (SOLID)
- TILE 5 (SOLID)
- ACOUSTIC WALL PANEL - PAINT ACCENT 1
- ACOUSTIC WALL PANEL - PAINT ACCENT 2
- ACOUSTIC WALL PANEL - PAINT ACCENT 3
- WD WOOD WALL PANELING
- (L) LAMINATE GLASS
- (CL) COLORED LAMINATE GLASS
- (T) TEMPERED GLASS
- (WL) WHITE LAMINATE GLASS

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S WHIDBEY PARKS & REC
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South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:
INTERIOR ELEVATIONS

SCALE: As indicated
DRAWN: LP / ES / AP
CHECKED: PC / EW
PROJECT NO: 2022021.000

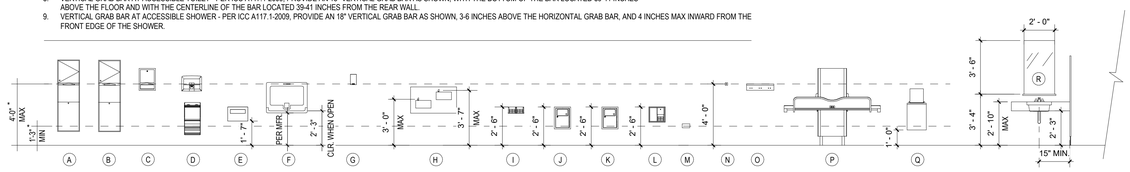
SHEET:
A5.4

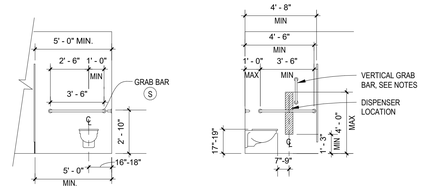
LEGEND

(A) COMBINATION TOWEL DISPENSER / WASTE RECEPTACLE - RECESSED	(D) WARM-AIR HAND DRYER	(G) LIQUID SOAP DISPENSER	(J) RECESSED SANITARY NAPKIN DISPOSAL UNIT	(M) TOILET PAPER HOLDER	(P) ADULT CHANGING TABLE	(S) GRAB GAR
(B) COMBINATION TOWEL DISPENSER / WASTE RECEPTACLE - SURFACE MOUNTED	(E) TOILET SEAT COVER DISPENSER	(H) DRINKING FOUNTAINS	(K) SURFACE MOUNTED SANITARY NAPKIN DISPOSAL UNIT	(N) TOWEL HOOK	(Q) SUIT SPINNER	
(C) PAPER TOWEL DISPENSER	(F) DIAPER CHANGING STATION	(I) TOILET PAPER DISPENSER W/ STORAGE FOR EXTRA ROLL	(L) MULTI-ROLL TOILET TISSUE DISPENSER	(O) UTILITY SHELF W/ MOP/BROOM HOLDERS AND RAG HOOKS	(R) MIRROR	

NOTES

* 1. MAX AND MIN DIMENSIONS ARE FOR UNOBSTRUCTED FORWARD AND SIDE REACH RANGES PER SECTION 308 OF THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.
2. DIMENSIONS ARE TAKEN FROM FINISH FLOOR TO THE OPERABLE PART OF RECEPTACLE, U.O.N
3. DRINKING FOUNTAINS - DIMENSION TO SPOUT OUTLETS
4. LAVATORIES - DIMENSION TO TOP OF RIM OR COUNTER SURFACE, WHICHEVER IS HIGHER.
5. MIRROR ABOVE LAVATORIES - DIMENSION TO BOTTOM OF REFLECTING SURFACE.
6. GRAB BARS - DIMENSION TO TOP OF GRIPPING SURFACE.
7. PROVIDE BLOCKING AS REQUIRED FOR ATTACHMENT OF ALL ACCESSORIES.
8. VERTICAL GRAB BAR AT ACCESSIBLE TOILET - PER ICC A117.1-2009, PROVIDE AN 18" VERTICAL GRAB BAR AS SHOWN, WITH THE BOTTOM OF THE BAR LOCATED 39-41 INCHES ABOVE THE FLOOR AND WITH THE CENTERLINE OF THE BAR LOCATED 39-41 INCHES FROM THE REAR WALL.
9. VERTICAL GRAB BAR AT ACCESSIBLE SHOWER - PER ICC A117.1-2009, PROVIDE AN 18" VERTICAL GRAB BAR AS SHOWN, 3-6 INCHES ABOVE THE HORIZONTAL GRAB BAR, AND 4 INCHES MAX INWARD FROM THE FRONT EDGE OF THE SHOWER.





ACCESSIBLE TOILET COMPARTMENT

PLAN NOTES:

1. ADULT CHANGING TABLE SHALL COMPLY WITH CLEARANCES NOTED IN ICC A117.1-2017 SECTION 613.4. PROVIDING 36" MIN. CLEARANCE IN FRONT OF TABLE AND 36" ON ONE SIDE.

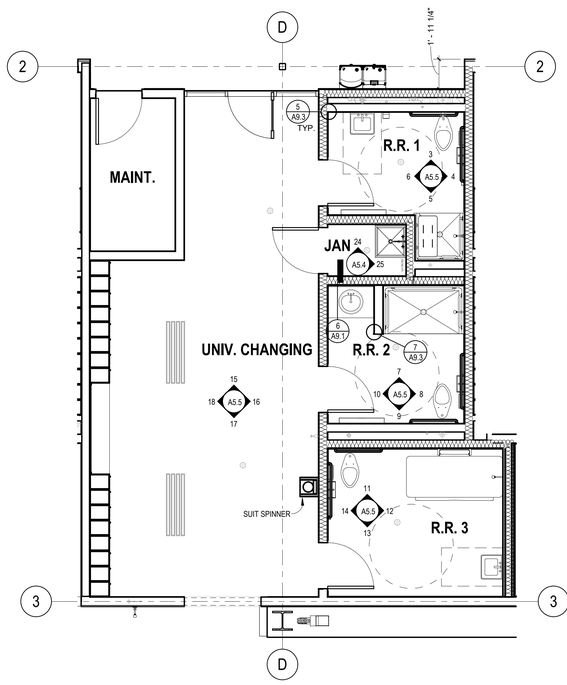
INTERIOR FINISH LEGEND

- TILE 1 - 25% MIX
- TILE 2 - 25% MIX
- TILE 3 (PATTERN)
- TILE 4 (SOLID)
- TILE 5 (SOLID)
- ACOUSTIC WALL PANEL - PAINT ACCENT 1
- ACOUSTIC WALL PANEL - PAINT ACCENT 2
- ACOUSTIC WALL PANEL - PAINT ACCENT 3
- WD WOOD WALL PANELING
- (L) LAMINATE GLASS
- (CL) COLORED LAMINATE GLASS
- (T) TEMPERED GLASS
- (WL) WHITE LAMINATE GLASS

1 TYPICAL RESTROOM ACCESSORIES

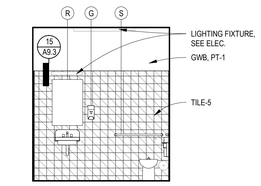
SCALE: 1/4" = 1'-0"

SEE SPECIFICATIONS FOR ADDITIONAL ACCESSORY INFORMATION



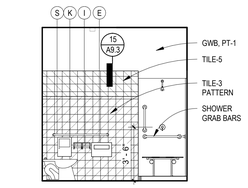
2 ENLARGED UNIVERSAL CHANGING

1/4" = 1'-0"



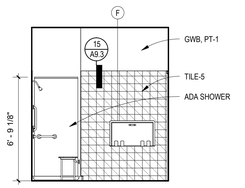
3 RESTROOM 1 - NORTH

1/4" = 1'-0"



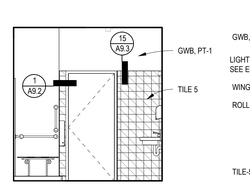
4 RESTROOM 1 - EAST

1/4" = 1'-0"



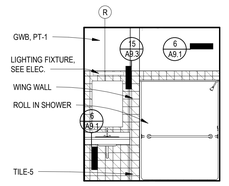
5 RESTROOM 1 - SOUTH

1/4" = 1'-0"



6 RESTROOM 1 - WEST

1/4" = 1'-0"



7 RESTROOM 2 - NORTH

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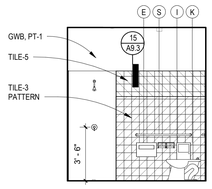
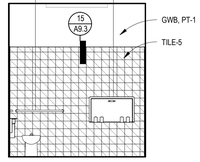


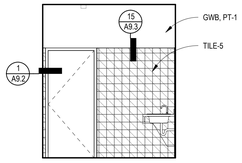
8 RESTROOM 2 - EAST

1/4" = 1'-0"



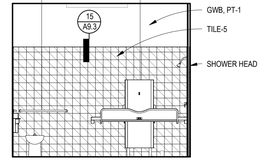
9 RESTROOM 2 - SOUTH

1/4" = 1'-0"



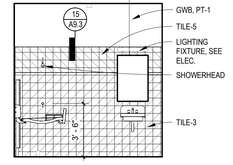
10 RESTROOM 2 - WEST

1/4" = 1'-0"



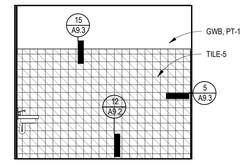
11 RESTROOM 3 - NORTH

1/4" = 1'-0"



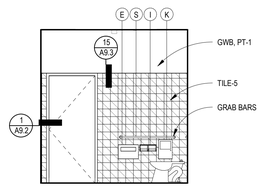
12 RESTROOM 3 - EAST

1/4" = 1'-0"



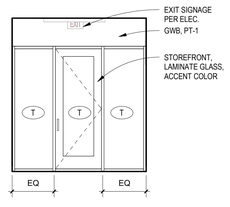
13 RESTROOM 3 - SOUTH

1/4" = 1'-0"



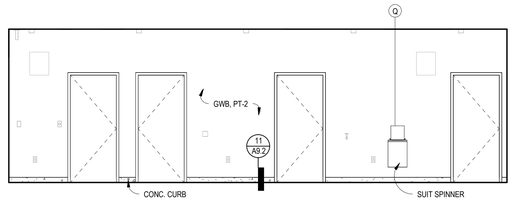
14 RESTROOM 3 - WEST

1/4" = 1'-0"



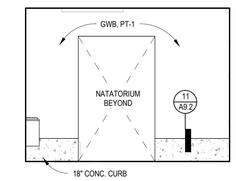
15 UNIVERSAL CHANGING - NORTH

1/4" = 1'-0"



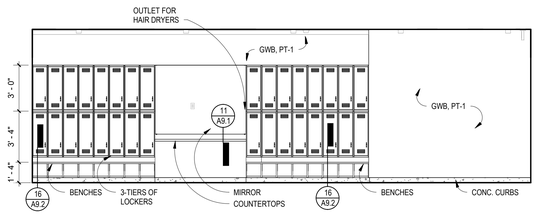
16 UNIVERSAL CHANGING - EAST

1/4" = 1'-0"



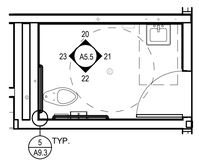
17 UNIVERSAL CHANGING - SOUTH

1/4" = 1'-0"



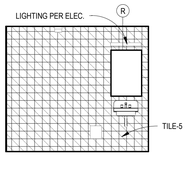
18 UNIVERSAL CHANGING - WEST

1/4" = 1'-0"



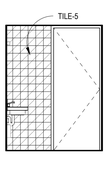
19 ENLARGED WC PLAN

1/4" = 1'-0"



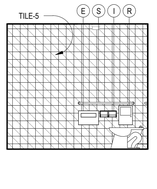
20 WC - NORTH

1/4" = 1'-0"



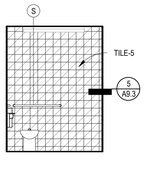
21 WC - EAST

1/4" = 1'-0"



22 WC - SOUTH

1/4" = 1'-0"



23 WC - WEST

1/4" = 1'-0"

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10644 REGISTERED ARCHITECT PAUL ROSS CURTIS STATE OF WASHINGTON

ISLAND COUNTY Reviewed For 2021 IBC Code Compliance 07/18/2025 Brian Boyle

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CONTENTS:

RESTROOM PLANS AND ELEVATIONS

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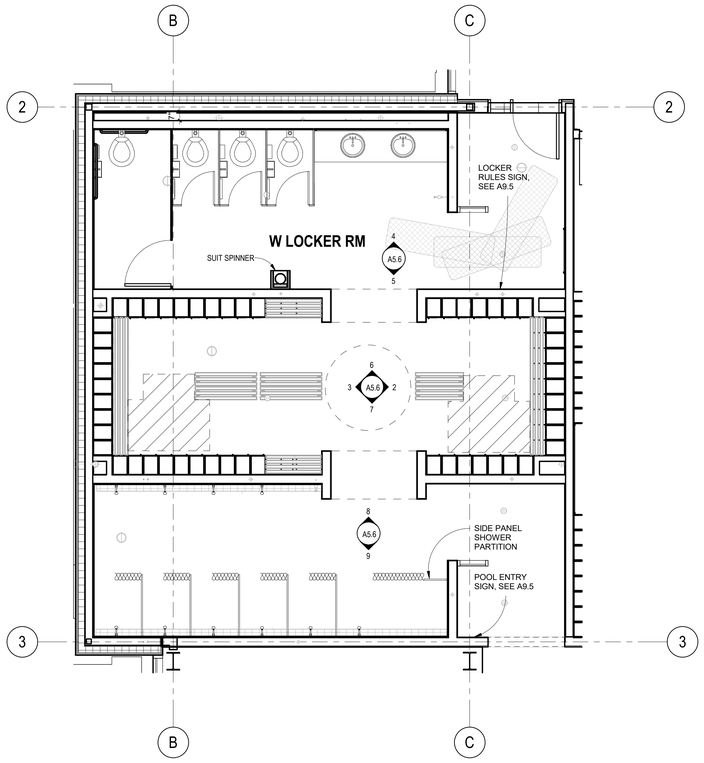
CHECKED: **PC / EW**
PROJECT NO: **2022021.000**

SHEET:

A5.5



1 ENLARGED WOMEN'S LOCKER ROOM PLAN
1/4" = 1'-0"

PLAN NOTES:

1. ADULT CHANGING TABLE SHALL COMPLY WITH CLEARANCES NOTED IN ICC A117.1-2017 SECTION 613.4. PROVIDING 36" MIN. CLEARANCE IN FRONT OF TABLE AND 36" ON ONE SIDE.

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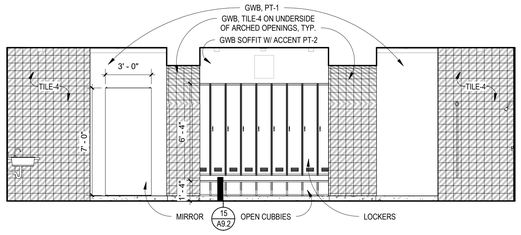
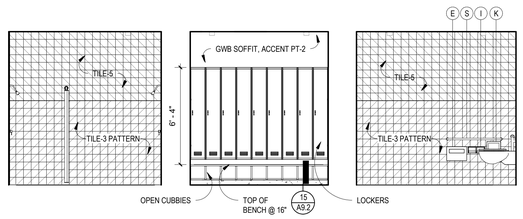
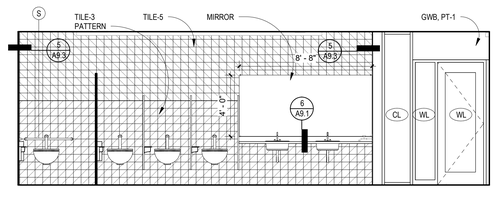


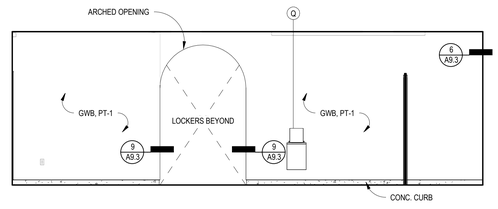
2 WOMEN'S LOCKER ROOM - EAST
1/4" = 1'-0"



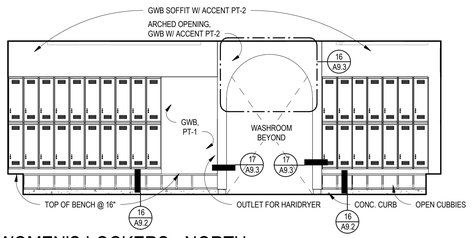
3 WOMEN'S LOCKER ROOM - WEST
1/4" = 1'-0"



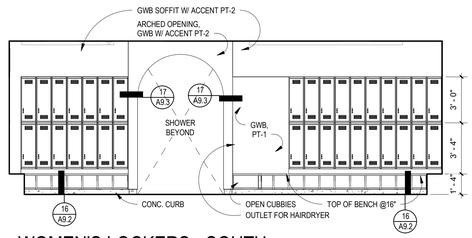
4 WOMEN'S RESTROOM - NORTH
1/4" = 1'-0"



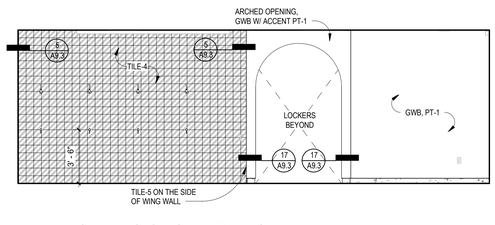
5 WOMEN'S RESTROOM - SOUTH
1/4" = 1'-0"



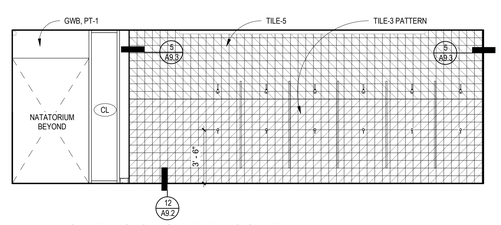
6 WOMEN'S LOCKERS - NORTH
1/4" = 1'-0"



7 WOMEN'S LOCKERS - SOUTH
1/4" = 1'-0"



8 WOMEN'S SHOWER - NORTH
1/4" = 1'-0"



9 WOMEN'S SHOWER - SOUTH
1/4" = 1'-0"

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ISSUE DATE: JUNE 2, 2025

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Rev #	Date	Description

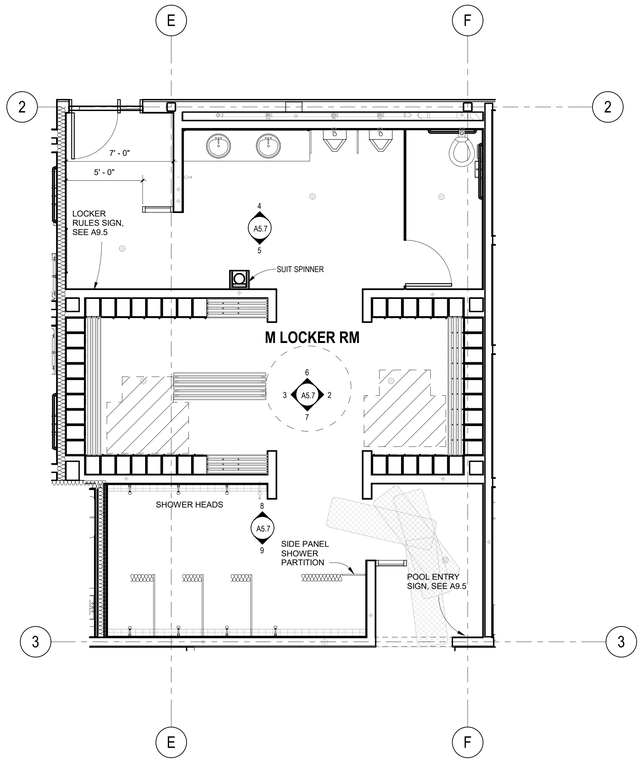
CONTENTS:

LOCKER ROOM PLANS AND ELEVATIONS

SCALE: As indicated
DRAWN: LP / ES / AP
CHECKED: PC / EW
PROJECT NO: 2022021.000

SHEET:

A5.6



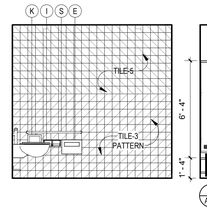
1 ENLARGED MEN'S LOCKER ROOM PLAN
1/4" = 1'-0"

PLAN NOTES:

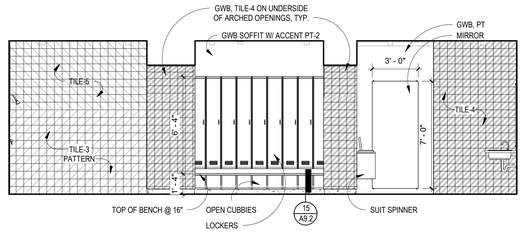
1. ADULT CHANGING TABLE SHALL COMPLY WITH CLEARANCES NOTED IN ICC A117.1-2017 SECTION 613.4. PROVIDING 36" MIN. IN CLEARANCE IN FRONT OF TABLE AND 36" ON ONE SIDE.

INTERIOR FINISH LEGEND

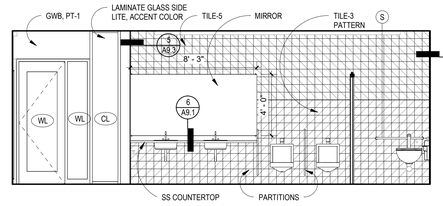
- TILE 1 - 25% MIX
- TILE 2 - 25% MIX
- TILE 3 (PATTERN)
- TILE 4 (SOLID)
- TILE 5 (SOLID)
- ACOUSTIC WALL PANEL - PAINT ACCENT 1
- ACOUSTIC WALL PANEL - PAINT ACCENT 2
- ACOUSTIC WALL PANEL - PAINT ACCENT 3
- WD WOOD WALL PANELING
- (L) LAMINATE GLASS
- (CL) COLORED LAMINATE GLASS
- (T) TEMPERED GLASS
- (WL) WHITE LAMINATE GLASS



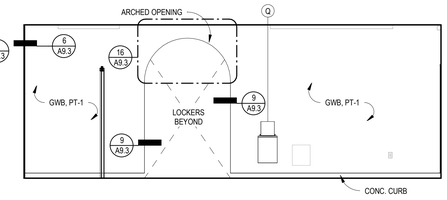
2 MEN'S LOCKER ROOM - EAST
1/4" = 1'-0"



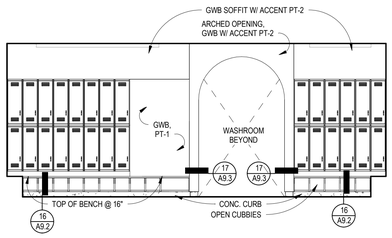
3 MEN'S LOCKER ROOM - WEST
1/4" = 1'-0"



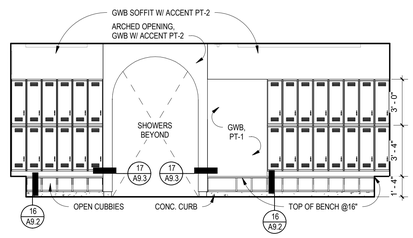
4 MEN'S RESTROOM - NORTH
1/4" = 1'-0"



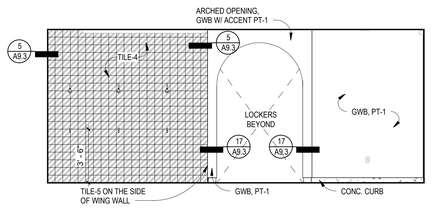
5 MEN'S RESTROOM - SOUTH
1/4" = 1'-0"



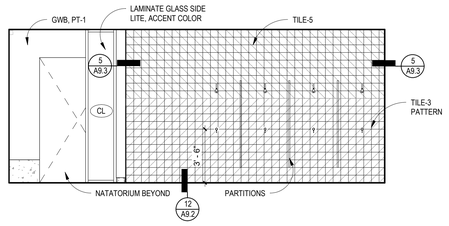
6 MEN'S LOCKERS - NORTH
1/4" = 1'-0"



7 MEN'S LOCKERS - SOUTH
1/4" = 1'-0"



8 MEN'S SHOWER - NORTH
1/4" = 1'-0"



9 MEN'S SHOWER - SOUTH
1/4" = 1'-0"

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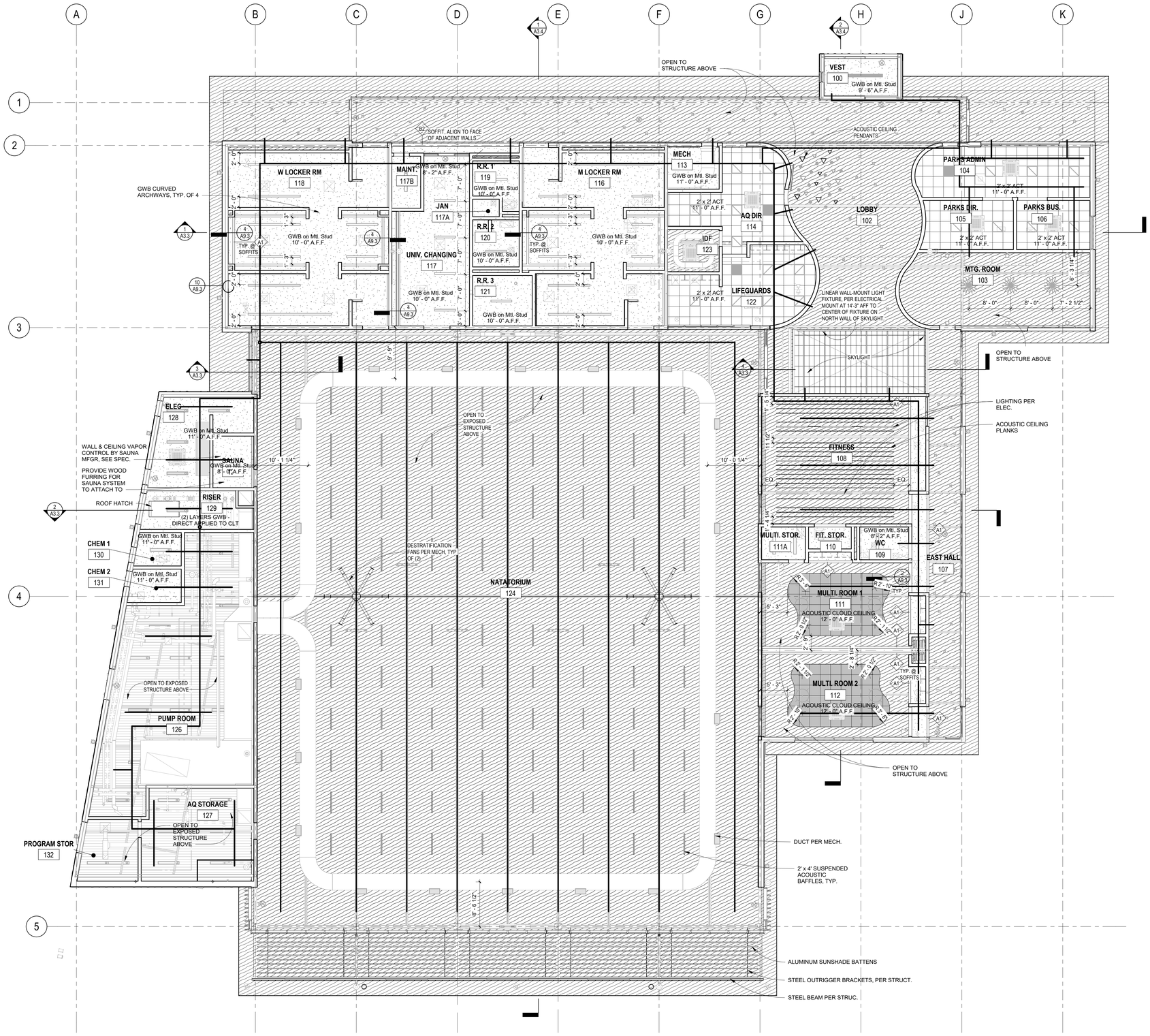
A5.7



1 LEVEL 1 - T.O. SLAB
1/8" = 1'-0"

CEILING PLAN NOTES:

1. REFER TO T1.0 FOR GENERAL NOTES.
2. ALL GWB CEILINGS AND SOFFITS ARE SUSPENDED ON CEILING JOISTS OF DESIGN-BUILD COLD FORMED METAL FRAMING. REFER TO SPECIFICATION SECTION 05 40 00 "COLD FORMED METAL FRAMING" AND STRUCTURAL NOTES.
3. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION, INCLUDING DEVICES NOT SHOWN ON THESE DRAWINGS.
4. MECHANICAL EQUIPMENT SHOWN FOR COORDINATION ONLY. NOTIFY ARCHITECT OF ANY CONFLICTS OF TRADES BEFORE PROCEEDING.
5. FOR LIGHTING AND ELECTRICAL DEVICES, FIRE ALARM, SECURITY CAMERAS AND SIMILAR DEVICES MOUNTED TO EXPOSED CEILINGS OR UNDERSIDE OF EXTERIOR ROOFS - ROUTE CONDUITS ABOVE THE ROOF SHEATHING AND TEMPORARY ROOFING.
6. CEILING DESTRATIFICATION FAN LOCATIONS ARE DIAGRAMMATIC. COORDINATE FINAL PLACEMENT WITH ARCHITECT.
7. REFER TO INTERIOR AND EXTERIOR COLOR SCHEDULES FOR FINISHES INCLUDING, BUT NOT LIMITED TO THOSE AT CEILINGS, EXPOSED STRUCTURE, EXPOSED DUCTS, INSULATION WRAPS, AND EXPOSED PIPING.
8. FIRE PROTECTION SYSTEMS ARE DESIGN-BUILD SCOPE. THIS PLAN IS INTENDED TO PROVIDE GENERAL DESIGN INTENT ONLY.
9. SEAL ALL PENETRATIONS THROUGH THE CEILING AND STRUCTURAL DECK WITHIN THE NATATORIUM ENVIRONMENT.
10. ACT CEILINGS TO BE BALAENCED WITHIN EACH ROOM, TYP.

LEGEND

ROOM NAME 101 — ROOM NAME NUMBER

EXIT SIGN - SEE ELEC.

MECHANICAL FAN COIL UNIT, PER MECH

MECHANICAL EXHAUST, PER MECH

MECHANICAL RETURN DIFFUSER, PER MECH

MECHANICAL SUPPLY DIFFUSER, PER MECH

2X2 LAY-IN LIGHT, PER ELEC

INDIRECT NATATORIUM LIGHT, PER ELEC

SURFACE MOUNTED OR PENDANT LINEAR LIGHT, PER ELEC

SUSPENDED PENDANT LIGHTS (VARIOUS), PER ELEC

SUSPENDED CATENARY STRING LIGHTS, PER ELEC

ELEVATION — 1 / A1.1 — DRAWING # SHEET #

BUILDING OR WALL SECTION — 1 / A1.1 — DRAWING # SHEET #

DETAILS — 1 / A1.1 — DETAIL # SHEET #

ELEVATION - HEIGHT OF MATERIAL

FIRE SPRINKLER LINES DIAGRAMMATIC LAYOUT

SEE FINISH SCHEDULE FOR MORE INFO.

GWB

EXPOSED STRUCT. (O.T.S.- SEE NOTES)

2' X 2' ACOUSTIC CEILING TILE, SEE DETAIL 1/A9.3 FOR REQUIREMENTS

ACOUSTIC CLOUD CEILING

VARIOUS ACOUSTIC CEILING UNITS

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REFLECTED CEILING PLAN

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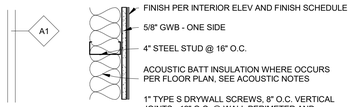
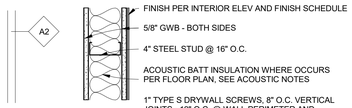
PROJECT NO: 2022021.000

SHEET:

A6.1

INTERIOR PARTITION SCHEDULE

	STUD SIZE (4")	STUD SIZE (6")	STUD SIZE (8")
GWB LAYERS (1)	STC RATING = 35/39 	STC RATING = 35/39 	STC RATING = 35/39
GWB LAYERS (2)	 1 HR FIRE RATED	STC RATING = 55-59 GA FILE NO. WP 1012 1 HR FIRE RATED JOINTS STAGGERED 32" EACH LAYER AND SIDE	STC RATING = 40/45 JOINTS STAGGERED 32" EACH LAYER AND SIDE

PARTITION SCHEDULE NOTES:

1. PLAN INDICATORS AND PARTITION TYPES ARE N.T.S.

2. SEE STRUCTURAL FOR LOAD BEARING AND SHEAR WALL LOCATIONS. PROVIDE SHEATHING PER STRUCTURAL.

3. COORDINATE SHEARWALL LOCATIONS WITH PARTITION TYPES INDICATED. IF A CONDITION OCCURS WHERE A SHEATHING LAYER OCCURS ALONG A POTION OF A CONTINUOUS WALL, CONTINUE THE SHEATHING TO THE NEXT INTERIOR OR EXTERIOR CORNER SUCH THAT THERE IS NO JOG ON THE SURFACE OF THE WALL.

4. ACOUSTIC PARTITIONS:
FILL WITH BATT INSULATION FOR "SOUND CONTROL", U.O.N. THE THICKNESS SHALL BE FULL WIDTH OF STUDS. SECURE INSULATION TO PREVENT SAGGING AND SEAL PERIMETER PER GYPSUM ASSOCIATION DESIGN MANUAL - SEE SPECIFICATION FOR JOINT SEALANTS. STAGGER AND SEAL ALL ELECTRICAL OUTLETS. EXTEND GWB TO UNDERSIDE OF DECK - TYP. WHERE PARTITIONS SEAL TO A UNEVEN OR CORRUGATED SURFACE, CLOSURE STRIPS ARE REQUIRED.

5. ALL PARTITIONS EXTEND TO BOTTOM OF DECK, U.O.N. - SEE INTERIOR ELEVATIONS. GLASS-MAT BOARD MAY BE SUBSTITUTED FOR GWB AT ABOVE-CEILING LOCATIONS, EXCEPT WHERE CEILING IS A FLOATING "CLOUD" (DOES NOT EXTEND TO WALL). FOR ANY WALLS THAT DO NOT EXTEND TO BOTTOM OF DECK, PROVIDE SOUND ATTENUATING BLANKETS AT CEILING ON EITHER SIDE.

6. AT NON-LOAD BEARING WALLS THAT EXTEND TO STRUCTURE OR DECK ABOVE, FURNISH SLIP CONNECTION AT TOP OF WALL THAT ALLOWS 1-1/2" MIN. DIFFERENTIAL DEFLECTION OF STRUCTURE ABOVE, U.N.O.

7. WHERE TWO OR MORE LAYERS OF GWB ARE USED, DO NOT CEMENT GWB TO THE INITIAL LAYER. USE NAILS OR SCREWS. STAGGER LAYERED BOARD JOINTS PER INTERIOR PARTITION SCHEDULE.

8. PARTITION SCHEDULE REFERS TO INTERIOR PARTITION AND FURRED WALL CONDITIONS ONLY. REFER TO BUILDING SECTIONS AND DETAILS FOR EXTERIOR WALL CONSTRUCTION ASSEMBLIES.

9. FIRE RATED WALL CONSTRUCTION IS REQUIRED WHERE NOTED ON FLOOR PLANS AND BUILDING SECTIONS.

10. SEE FLOOR PLAN A2.1 POOL & LOCKERROOM WATERPROFING NOTES FOR POOL AREA, LOCKER ROOMS, POOL MECHANICAL AND OTHER ROOMS WITHIN THE NATATORIUM ENVIRONMENT THAT REQUIRE SPECIAL CARE IN TERMS OF THE LOCATION OF VARYING TYPES OF WALLBOARD, AND TYPES AND LOCATIONS OF AIR AND WEATHER-RESISTANT BARRIERS.

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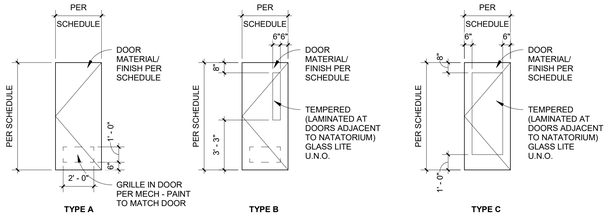
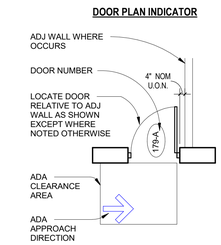
A7.1

DOOR SCHEDULE											
	DOOR						FRAME				
ROOM NAME	NUMBER	TYPE	OPENING WIDTH	HEIGHT	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	PAIR	COMMENTS
VEST.	100	TYPE C	6' - 0"	8' - 0"	AL	FF	SF	AL	FF	YES	EXTERIOR, EMERGENCY EGRESS HARDWARE, CLOSER, AC, AO
INDOOR FOREST	101A	TYPE C	6' - 0 1/2"	8' - 0"	AL	FF	SF	AL	FF	YES	CLOSER, AO
INDOOR FOREST	101B	TYPE C	3' - 0"	8' - 0"	AL	FF	SF (601)	AL	FF		EXTERIOR, EMERGENCY EGRESS HARDWARE, CLOSER
INDOOR FOREST	101C	TYPE C	3' - 0"	8' - 0"	AL	FF	SF (601)	AL	FF		EXTERIOR, CLOSER, EMERGENGY EGRESS HARDWARE
LOBBY	102	TYPE C	6' - 0"	8' - 0"	AL	FF	SF	AL	FF	YES	EXTERIOR, CLOSER, EMERGENGY EGRESS HARDWARE
PARKS ADMIN	103	TYPE C	3' - 0"	8' - 0"	WD	ST	TYPE 1	AL	FF		AC
PARKS ADMIN	104	TYPE C	3' - 0"	8' - 0"	WD	ST	TYPE 1	AL	FF		AC
PARKS DIR.	105	TYPE C	3' - 0"	8' - 0"	WD	ST	TYPE 3	AL	FF		
PARKS BUS.	106	TYPE C	3' - 0"	8' - 0"	WD	ST	TYPE 3	AL	FF		
EAST HALL	107	TYPE C	3' - 0"	8' - 0"	AL	FF	SF	AL	FF		EXTERIOR, EMERGENCY EGRESS HARDWARE, CLOSER
FITNESS	108A	TYPE C	3' - 0"	8' - 0"	WD	ST	TYPE 3	AL	FF		AC
FITNESS	108B	TYPE C	3' - 0"	8' - 0"	AL	FF	TYPE 3	AL	FF		CLOSER
FITNESS STOR.	108C	TYPE A	6' - 0"	8' - 0"	HM	PT	TYPE 2	HM	PT	YES	
WC	109	TYPE A	3' - 0"	8' - 0"	WD	ST	TYPE 1	AL	FF		
MULTI ROOM 1	111A	TYPE C	3' - 0"	8' - 0"	WD	ST	TYPE 3	AL	FF		AC
MULTI ROOM 1	111B	TYPE C	3' - 0"	8' - 0"	AL	FF	TYPE 3	AL	FF		CLOSER
MULTI. STOR	111C	TYPE A	3' - 0"	8' - 0"	HM	PT	TYPE 1	HM	PT		
MULTI ROOM 1	112A	TYPE C	3' - 0"	8' - 0"	WD	ST	TYPE 3	AL	FF		
MULTI ROOM 2	112B	TYPE C	3' - 0"	8' - 0"	AL	FF	TYPE 3	AL	FF		CLOSER
MECH	113	TYPE A	3' - 0"	8' - 0"	WD	ST	TYPE 1	AL	FF		
AQ DIR	114A	TYPE C	3' - 0"	8' - 0"	WD	ST	TYPE 4	AL	FF		AC
AQ DIR	114B	TYPE A	3' - 0"	8' - 0"	WD	ST	TYPE 1	AL	FF		AC
M LOCKER RM	116	TYPE C	3' - 0"	8' - 0"	AL	FF	TYPE 3	AL	FF		TRANSLUCENT GLASS
UCH	117	TYPE C	3' - 0"	7' - 10"	AL	FF	SF	AL	FF		TRANSLUCENT GLASS, CLOSER, AO
JANITOR	117A	TYPE A	3' - 0"	7' - 0"	FG	FF	TYPE 1	FG	FF		AC
MAINTENANCE	117B	TYPE A	3' - 0"	8' - 0"	WD	ST	TYPE 1	AL	FF		
W LOCKER RM	118	TYPE C	3' - 0"	8' - 0"	AL	FF	TYPE 3	AL	FF		TRANSLUCENT GLASS
RR	119	TYPE A	3' - 0"	7' - 0"	FG	FF	TYPE 1	FG	FF		
RR	120	TYPE A	3' - 0"	7' - 0"	FG	FF	TYPE 1	FG	FF		
RR	121	TYPE A	3' - 0"	7' - 0"	FG	FF	TYPE 1	FG	FF		
LIFEGUARDS	122A	TYPE C	3' - 0"	8' - 0"	AL	FF	SF	AL	FF		
LIFEGUARDS	122B	TYPE C	3' - 0"	8' - 0"	AL	FF	TYPE 4	AL	FF		CLOSER
IDF	123	TYPE A	3' - 0"	8' - 0"	HM	PT	TYPE 1	HM	PT		
NATATORIUM	124A	TYPE C	6' - 0"	8' - 0"	AL	FF	SF	AL	FF	YES	CLOSER, EMERGENGY EGRESS HARDWARE
NATATORIUM	124B	TYPE C	6' - 0"	8' - 0"	AL	FF	CW	AL	FF	YES	EXTERIOR, EMERGENCY EGRESS HARDWARE, CLOSER
NATATORIUM	124G	TYPE C	6' - 0"	8' - 0"	AL	FF	CW	AL	FF	YES	EXTERIOR, EMERGENCY EGRESS HARDWARE, CLOSER
SAUNA	125	TYPE C	3' - 0"	8' - 0"	AL	FF	TYPE 5	AL	FF		
PUMP ROOM	126A	TYPE A	3' - 2"	8' - 0"	AL	FF	TYPE 5	AL	FF		CLOSER
PUMP ROOM	126B	TYPE A	6' - 0"	8' - 0"	FG	FF	TYPE 2	FG	FF	YES	EXTERIOR, EMERGENCY EGRESS HARDWARE, CLOSER
PUMP ROOM	126C	RELITE	4' - 0"	3' - 0"	FG	FF	TYPE 6	GL	GL		RELITE WINDOW FROM RISER ROOM TO POOL PUMP ROOM, 1-HR RATED ASSEMBLY
AQ STORAGE	127	TYPE A	3' - 2"	8' - 0"	AL	FF	TYPE 5	AL	FF		CLOSER
AQ STORAGE	127B	TYPE A	3' - 0"	8' - 0"	FG	FF	TYPE 1	FG	FF		
ELEC	128A	TYPE A	3' - 0"	8' - 0"	FG	FF	TYPE 1	FG	FF		EXTERIOR, EMERGENCY EGRESS HARDWARE, CLOSER
ELEC	128B	TYPE A	3' - 0"	8' - 0"	FG	FF	TYPE 1	FG	FF		EXTERIOR, EMERGENCY EGRESS HARDWARE, CLOSER
RISER	129	TYPE A	6' - 0"	8' - 0"	FG	FF	TYPE 2	FG	FF		45MIN FIRE RATED, EXTERIOR, EMERGENCY EGRESS HARDWARE, CLOSER
CHEM 1	130	TYPE A	3' - 0"	8' - 0"	FG	FF	TYPE 1	FG	FF		EXTERIOR, EMERGENCY EGRESS HARDWARE, CLOSER
CHEM 2	131	TYPE A	3' - 0"	8' - 0"	FG	FF	TYPE 1	FG	FF		EXTERIOR, EMERGENCY EGRESS HARDWARE, CLOSER
PROG STOR	132	TYPE A	6' - 0"	8' - 0"	FG	FF	TYPE 2	FG	FF	YES	EXTERIOR, EMERGENCY EGRESS HARDWARE, CLOSER
MAINTENANCE BLDG	200	TYPE A	3' - 0"	8' - 0"	FG	PT	TYPE 1	FG	PT		MAINTENANCE BLDG SEPERATE FROM AQUATIC CENTER
MAINTENANCE BLDG	201	TYPE A	3' - 0"	8' - 0"	FG	PT	TYPE 1	FG	PT		MAINTENANCE BLDG SEPERATE FROM AQUATIC CENTER
WELL HOUSE	300	TYPE A	3' - 0"	8' - 0"	HM	PT	TYPE 1	HM	PT		WELL HOUSE SEPERATE FROM AQUATIC CENTER, DEMO EXISTING DOWN TO ROUGH OPENING

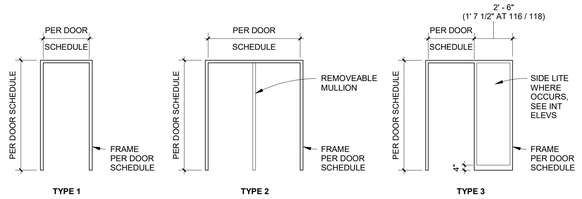
DOOR TYPE SCHEDULE



DOOR PLAN INFO



FRAME TYPE SCHEDULE



DOOR TYPES

DOOR & FRAME MATERIAL:
HM = HOLLOW METAL
AL = ALUMINUM
WD = WOOD
FG = FIBERGLASS
GL = GLASS
SF = STOREFRONT
CW = CURTAIN WALL

DOOR & FRAME FINISH:
PT = METAL, FIELD PAINTED
ANOD = ANODIZED
FF = FACTORY FINISHED
ST = STAIN
CL = CLEAR FINISH

GLAZING:
SEE INTERIOR AND EXTERIOR ELEVATIONS FOR LOCATIONS OF TEMPERED & LAMINATED GLAZING

COMMENTS: AS INDICATED
NA = NOT APPLICABLE
PH = PANIC HARDWARE/EXIT DOOR
VIF= VERIFY OPENING WIDTH IN FIELD
AO = AUTO OPEN
AC = ACCESS CONTROL

DOOR / FRAME GENERAL NOTES

1. SEE INTERIOR AND EXTERIOR ELEVATIONS FOR DOOR AND RELITE FRAME DETAIL CALLOUTS.

2. TO DETERMINE FRAME DEPTH, SEE PARTITION SCHEDULE FOR WALL CONSTRUCTION AND STRUCTURAL DRAWINGS FOR SHEATHING THICKNESS AND LOCATIONS.

3. FIRE DOORS SHALL BE EQUIPPED W/ APPROVED LATCHES AND SELF-CLOSING DEVICES; REFER TO FINISH HARDWARE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

4. THE OPENING AND CLOSING FORCE OF ALL INTERIOR SWINGING OR SLIDING DOORS WITH OR WITHOUT CLOSERS SHALL REQUIRE NO GREATER THAN 5 POUNDS OF FORCE TO MEET ACCESSIBILITY REQUIREMENTS DESCRIBED IN ANSI A117.1-1998.

5. REFER TO ELEVATIONS FOR LOUVERS LOCATED IN FIBERGLASS OR ALUMINUM FRAMES.

6. REFER TO ELECTRICAL DRAWINGS FOR CARD READER, BADGE READER, SECURITY ALARMS, AND SIMILAR SECURITY DEVICES AT DOORS.

7. SOME EXIT DOORS IN CURTAINWALL SYSTEMS HAVE A THICKENED HEAD MULLION FOR EXIT LIGHT SIGNAGE MOUNTING. SEE INTERIOR ELEVATIONS FOR EXACT QUANTITY, DETAIL CALLOUTS, AND LOCATIONS.

8. AT CURTAINWALL AND STOREFRONT FRAME TYPES, SEE ELEVATIONS FOR FRAME CONFIGURATION (NOT FRAME TYPE SCHEDULE ABOVE)

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10644 REGISTERED ARCHITECT
PAUL ROSS CURTIS
STATE OF WASHINGTON

ISLAND COUNTY
Reviewed For
2021 IBC
Code Compliance
07/18/2025
Brian Boyle

S WHIDBEY PARKS & REC
AQUATIC REC CENTER

5491 MAXWELTON RD
LANGLEY, WA 98260

South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:

DOOR & WINDOW SCHEDULES

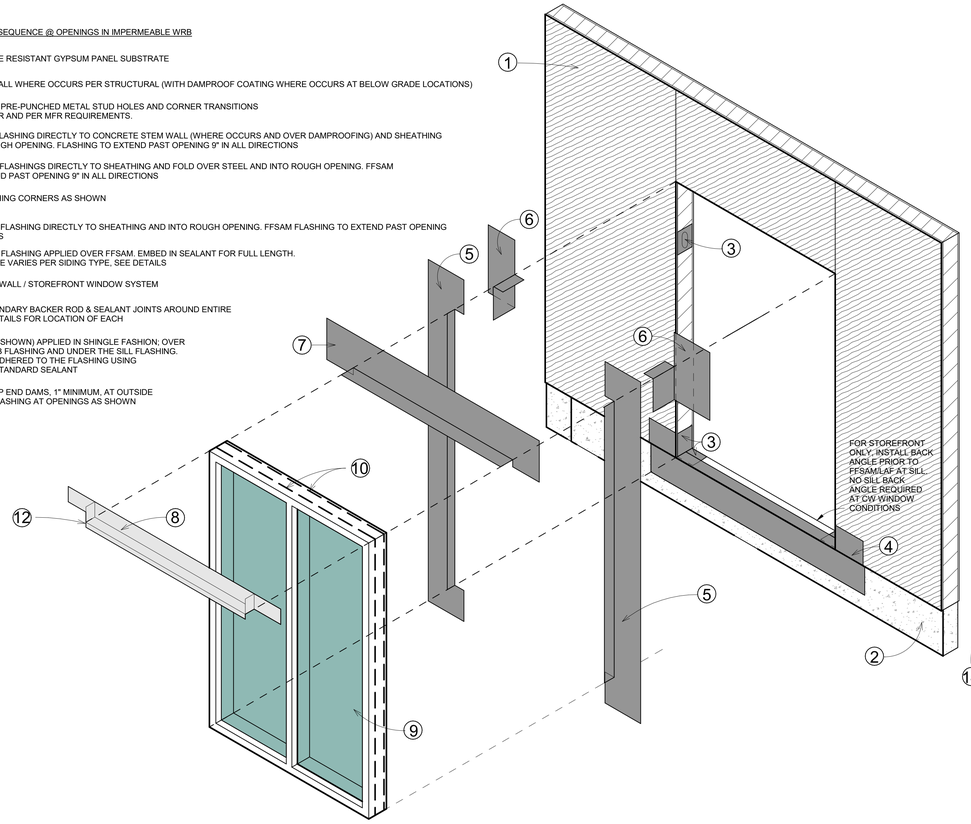
SCALE: **1/4" = 1'-0"**
DRAWN: **LP / ES / AP**
CHECKED: **PC / EW**
PROJECT NO: **2022021.000**

SHEET:

A7.2

FLASHING INSTALLATION SEQUENCE @ OPENINGS IN IMPERMEABLE WRB

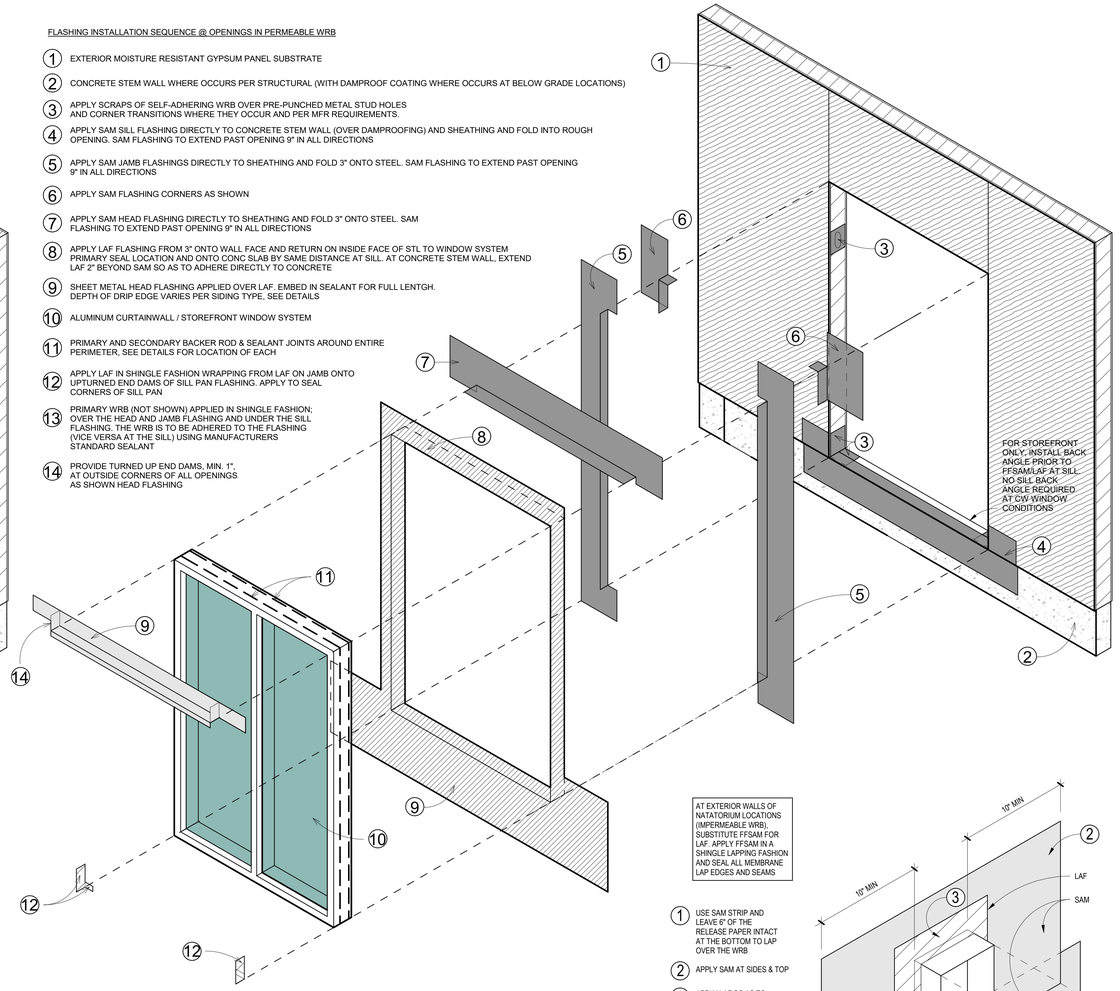
1. EXTERIOR MOISTURE RESISTANT GYPSUM PANEL SUBSTRATE
2. CONCRETE STEM WALL WHERE OCCURS PER STRUCTURAL (WITH DAMPROOF COATING WHERE OCCURS AT BELOW GRADE LOCATIONS)
3. APPLY FFSAM OVER PRE-PUNCHED METAL STUD HOLES AND CORNER TRANSITIONS WHERE THEY OCCUR AND PER MFR REQUIREMENTS.
4. APPLY FFSAM SILL FLASHING DIRECTLY TO CONCRETE STEM WALL (WHERE OCCURS AND OVER DAMPROOFING) AND SHEATHING AND FOLD INTO ROUGH OPENING. FLASHING TO EXTEND PAST OPENING 9" IN ALL DIRECTIONS
5. APPLY FFSAM JAMB FLASHINGS DIRECTLY TO SHEATHING AND FOLD OVER STEEL AND INTO ROUGH OPENING. FFSAM FLASHING TO EXTEND PAST OPENING 9" IN ALL DIRECTIONS
6. APPLY FFSAM FLASHING CORNERS AS SHOWN
7. APPLY FFSAM HEAD FLASHING DIRECTLY TO SHEATHING AND INTO ROUGH OPENING. FFSAM FLASHING TO EXTEND PAST OPENING 9" IN ALL DIRECTIONS
8. SHEET METAL HEAD FLASHING APPLIED OVER FFSAM. EMBED IN SEALANT FOR FULL LENGTH. DEPTH OF DRIP EDGE VARIES PER SIDING TYPE, SEE DETAILS
9. ALUMINUM CURTAINWALL / STOREFRONT WINDOW SYSTEM
10. PRIMARY AND SECONDARY BACKER ROD & SEALANT JOINTS AROUND ENTIRE PERIMETER, SEE DETAILS FOR LOCATION OF EACH
11. PRIMARY WRB (NOT SHOWN) APPLIED IN SHINGLE FASHION; OVER THE HEAD AND JAMB FLASHING AND UNDER THE SILL FLASHING. THE WRB IS TO BE ADHERED TO THE FLASHING USING MANUFACTURERS STANDARD SEALANT
12. PROVIDE TURNED UP END DAMS, 1" MINIMUM, AT OUTSIDE CORNERS OF ALL FLASHING AT OPENINGS AS SHOWN



1 TYP OPENING FLASHING SEQUENCE
1/2" = 1'-0"

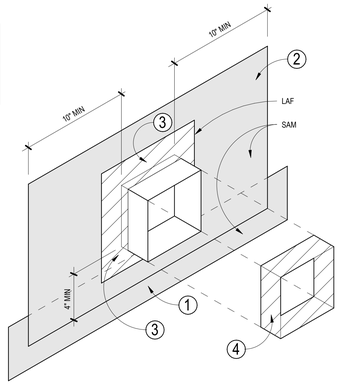
FLASHING INSTALLATION SEQUENCE @ OPENINGS IN PERMEABLE WRB

1. EXTERIOR MOISTURE RESISTANT GYPSUM PANEL SUBSTRATE
2. CONCRETE STEM WALL WHERE OCCURS PER STRUCTURAL (WITH DAMPROOF COATING WHERE OCCURS AT BELOW GRADE LOCATIONS)
3. APPLY SCRAPS OF SELF-ADHERING WRB OVER PRE-PUNCHED METAL STUD HOLES AND CORNER TRANSITIONS WHERE THEY OCCUR AND PER MFR REQUIREMENTS.
4. APPLY SAM SILL FLASHING DIRECTLY TO CONCRETE STEM WALL (OVER DAMPROOFING) AND SHEATHING AND FOLD INTO ROUGH OPENING. SAM FLASHING TO EXTEND PAST OPENING 9" IN ALL DIRECTIONS
5. APPLY SAM JAMB FLASHINGS DIRECTLY TO SHEATHING AND FOLD 3" ONTO STEEL. SAM FLASHING TO EXTEND PAST OPENING 9" IN ALL DIRECTIONS
6. APPLY SAM FLASHING CORNERS AS SHOWN
7. APPLY SAM HEAD FLASHING DIRECTLY TO SHEATHING AND FOLD 3" ONTO STEEL. SAM FLASHING TO EXTEND PAST OPENING 9" IN ALL DIRECTIONS
8. APPLY LAF FLASHING FROM 3" ONTO WALL FACE AND RETURN ON INSIDE FACE OF STL TO WINDOW SYSTEM PRIMARY SEAL LOCATION AND ONTO CONC SLAB BY SAME DISTANCE AT SILL. AT CONCRETE STEM WALL, EXTEND LAF 2" BEYOND SAM SO AS TO ADHERE DIRECTLY TO CONCRETE
9. SHEET METAL HEAD FLASHING APPLIED OVER LAF. EMBED IN SEALANT FOR FULL LENTGH. DEPTH OF DRIP EDGE VARIES PER SIDING TYPE, SEE DETAILS
10. ALUMINUM CURTAINWALL / STOREFRONT WINDOW SYSTEM
11. PRIMARY AND SECONDARY BACKER ROD & SEALANT JOINTS AROUND ENTIRE PERIMETER, SEE DETAILS FOR LOCATION OF EACH
12. APPLY LAF IN SHINGLE FASHION WRAPPING FROM LAF ON JAMB ONTO UPTURNED END DAMS OF SILL PAN FLASHING. APPLY TO SEAL CORNERS OF SILL PAN
13. PRIMARY WRB (NOT SHOWN) APPLIED IN SHINGLE FASHION; OVER THE HEAD AND JAMB FLASHING AND UNDER THE SILL FLASHING. THE WRB IS TO BE ADHERED TO THE FLASHING (VICE VERSA AT THE SILL) USING MANUFACTURERS STANDARD SEALANT
14. PROVIDE TURNED UP END DAMS, MIN. 1", AT OUTSIDE CORNERS OF ALL OPENINGS AS SHOWN HEAD FLASHING



AT EXTERIOR WALLS OF NATATORIUM LOCATIONS (IMPERMEABLE WRB), SUBSTITUTE FFSAM FOR LAF. APPLY FFSAM IN A SHINGLE LAPPING FASHION AND SEAL ALL MEMBRANE LAP EDGES AND SEAMS

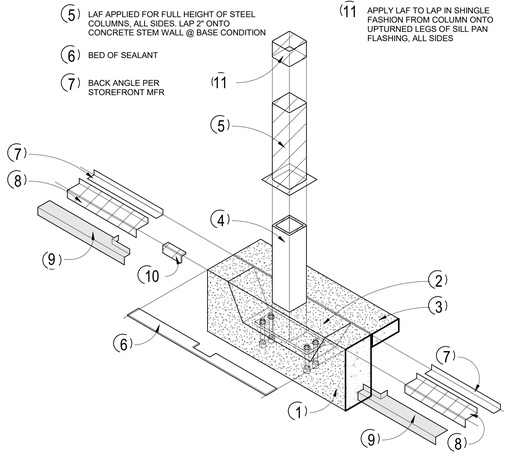
1. USE SAM STRIP AND LEAVE 6" OF THE RELEASE PAPER INTACT AT THE BOTTOM TO LAP OVER THE WRB
2. APPLY SAM AT SIDES & TOP
3. APPLY LAF SO AS TO LAP 1" MIN ONTO PENETRATING OBJECT AND 3" MIN ONTO SELF ADHERING MEMBRANE, ALL SIDES
4. APPLY 4" OF LAF AT BASE OF PENETRATING OBJECT AT WALL, OVER PREVIOUSLY LAPPED LAF, AND LAPPED ONTO PIPE MATERIALBOX MATERIAL
5. COVER WITH CLADDING WITHIN 20 DAYS OR OTHERWISE PROTECT SAM AND WRB FROM UV



5 TYPICAL RECTANGULAR PENETRATION SEALS
1 1/2" = 1'-0"

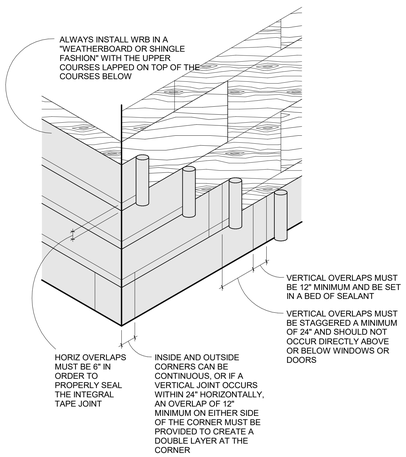
FLASHING INSTALLATION SEQUENCE @ COLS IN STOREFRONT SYSTEM

1. CONCRETE STEM WALL PER STRUCTURAL
2. SECOND POUR TO INFILL CONC STEM WALL AT RECESSED COLUMN BASE LOCATIONS, SEE STRUCT
3. CONC SLAB PER STRUCTURAL
4. STRUCTURAL STEEL COLUMNS WITH RECESSED BASE CONDITION - SIZES VARY, SEE STRUCTURAL
5. LAF APPLIED FOR FULL HEIGHT OF STEEL COLUMNS, ALL SIDES. LAP 2" ONTO CONCRETE STEM WALL @ BASE CONDITION
6. BED OF SEALANT
7. BACK ANGLE PER STOREFRONT MFR
8. LAP LAF OVER MEMBRANE AT CONC STEMM WALL MIN 3" AND OVER STL ANGLE
9. SILL FLASHING. PAN UP INSIDE LEG AND AT COLUMNS AS SHOWN. SET IN BED OF SEALANT, TYP (NOTE 6)
10. LAF TYPICAL AT ALL SILL FLASHING LAP JOINTS. AT COLUMN CONDITION (AS SHOWN) LAP FOR FULL WIDTH OF COLUMN
11. APPLY LAF TO LAP IN SHINGLE FASHION FROM COLUMN ONTO UPTURNED LEGS OF SILL PAN FLASHING, ALL SIDES

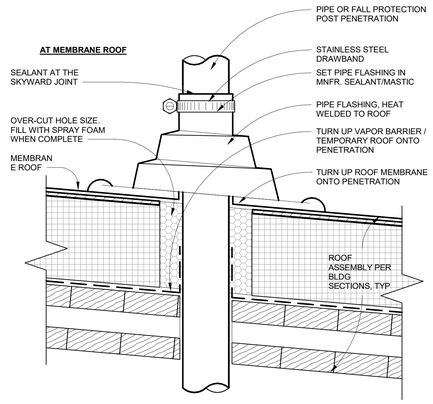


2 FLASHING @ COLS EMBEDDED IN SF
1/2" = 1'-0"

NOTE: WRB IS MECHANICALLY FASTENED TO THE SUBSTRATE. STAINLESS STEEL STAPLES OR CAP NAILS MAY BE USED AS TEMPORARY FASTENERS DURING INSTALLATION BUT ONLY AT LOCATIONS THAT WILL BE COVERED BY THE SHINGLING OF THE NEXT LAYER OF MATERIAL



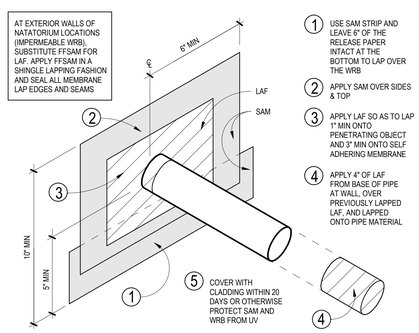
3 PRIMARY WRB INSTALLATION
1/4" = 1'-0"



4 TYPICAL ROOF PENETRATION DETAILS
3" = 1'-0"

AT EXTERIOR WALLS OF NATATORIUM LOCATIONS (IMPERMEABLE WRB), SUBSTITUTE FFSAM FOR LAF. APPLY FFSAM IN A SHINGLE LAPPING FASHION AND SEAL ALL MEMBRANE LAP EDGES AND SEAMS

1. USE SAM STRIP AND LEAVE 6" OF THE RELEASE PAPER INTACT AT THE BOTTOM TO LAP OVER THE WRB
2. APPLY SAM OVER SIDES & TOP
3. APPLY LAF SO AS TO LAP 1" MIN ONTO PENETRATING OBJECT AND 3" MIN ONTO SELF ADHERING MEMBRANE
4. APPLY 4" OF LAF FROM BASE OF PIPE AT WALL, OVER PREVIOUSLY LAPPED LAF, AND LAPPED ONTO PIPE MATERIAL
5. COVER WITH CLADDING WITHIN 20 DAYS OR OTHERWISE PROTECT SAM AND WRB FROM UV



6 TYPICAL ROUND PENETRATION SEALS
3" = 1'-0"

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ISSUE DATE: JUNE 2, 2025

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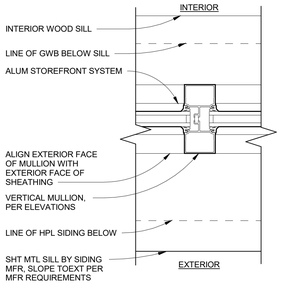
EXT DETAILS - TYPICAL WATERPROOFING

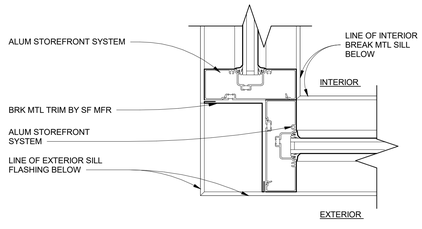
SCALE: As indicated
DRAWN: LP / ES / AP
CHECKED: PC / EW
PROJECT NO: 2022021.000

SHEET:

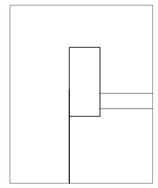
A8.1



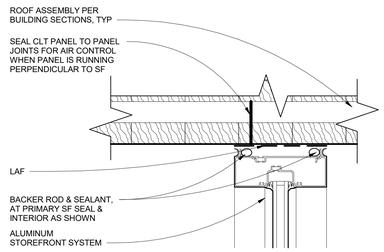
1 STOREFRONT MULLION - VERTICAL
3" = 1'-0"



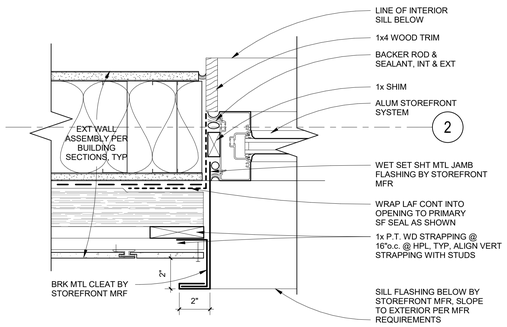
5 STOREFRONT EXTERIOR CORNER
3" = 1'-0"



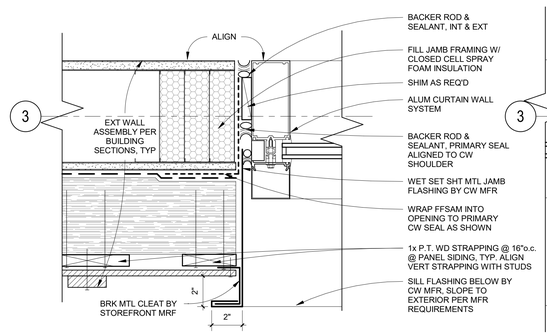
9 SF DOOR JAMB
3" = 1'-0"



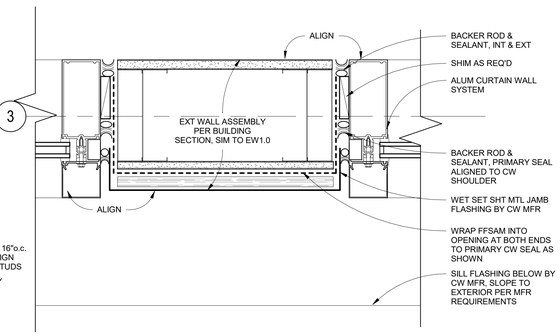
10 STOR FRONT HEAD @ CLT
3" = 1'-0"



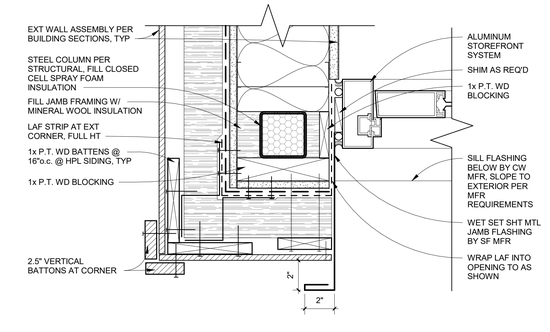
2 STOREFRONT PUNCHED OPENING JAMB @ HPL SIDING
3" = 1'-0"



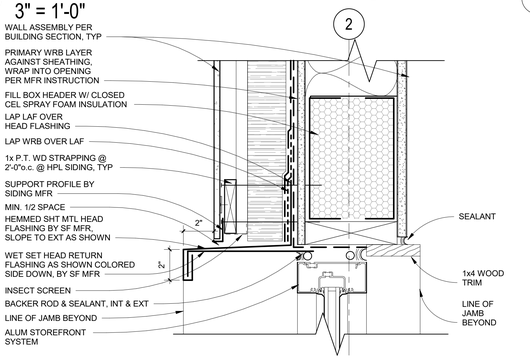
6 CW JAMB @ PANEL SIDING
3" = 1'-0"



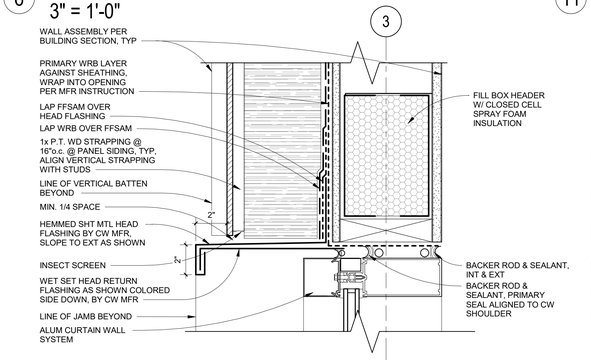
11 CW JAMB @ BRK MTL
3" = 1'-0"



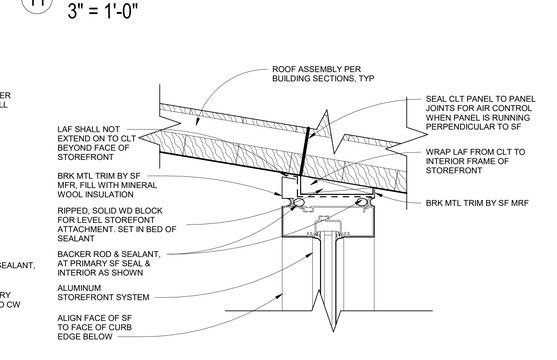
15 STOREFRONT JAMB AT VEST
3" = 1'-0"



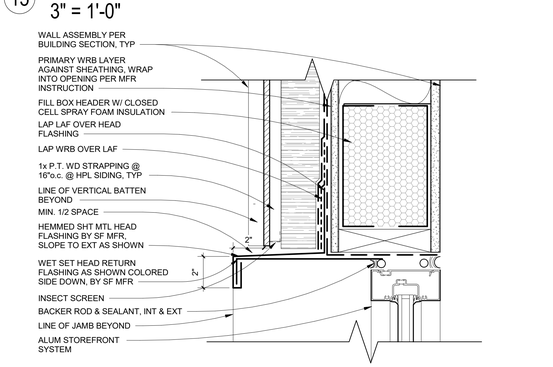
3 STOREFRONT PUNCHED OPENING HEAD @ HPL SIDING
3" = 1'-0"



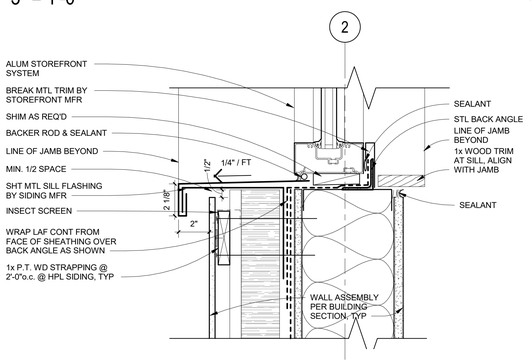
7 CW HEAD @ PANEL SIDING
3" = 1'-0"



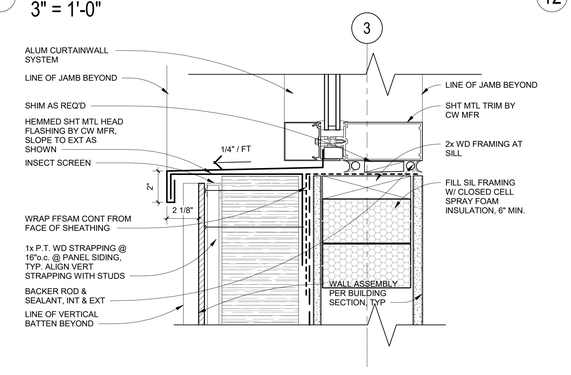
12 STOREFRONT HEAD @ CLT
3" = 1'-0"



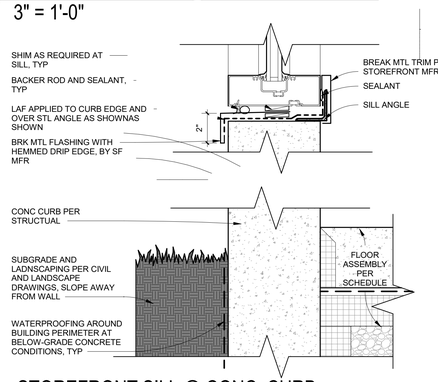
16 STOREFRONT HEAD @ VEST
3" = 1'-0"



4 STOREFRONT SILL @ HPL SIDING
3" = 1'-0"



8 CW SILL @ PANEL SIDING
3" = 1'-0"



13 STOREFRONT SILL @ CONC. CURB
3" = 1'-0"

17 STOREFRONT SILL @ CONC WALK
3" = 1'-0"

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EXTERIOR DETAILS

SCALE: 3" = 1'-0"
DRAWN: LP / ES / AP
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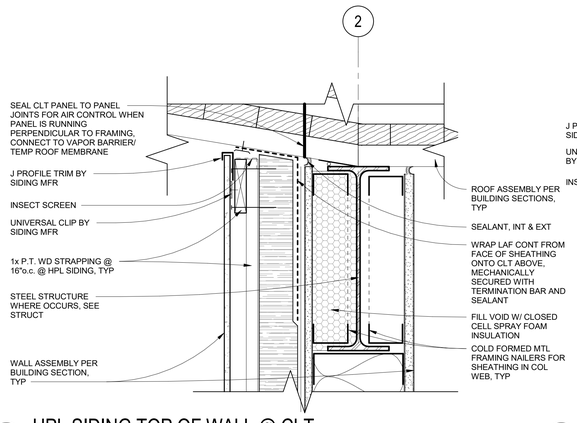
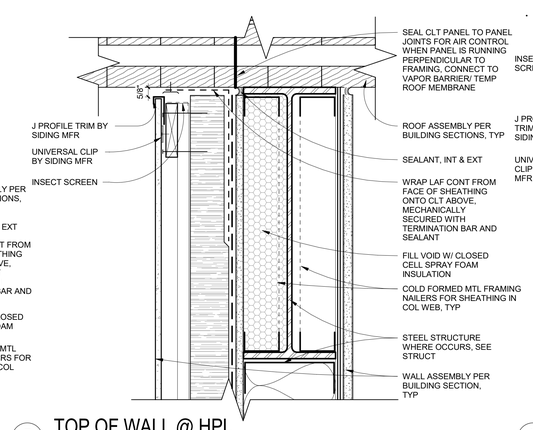
PROJECT NO: 2022021.000

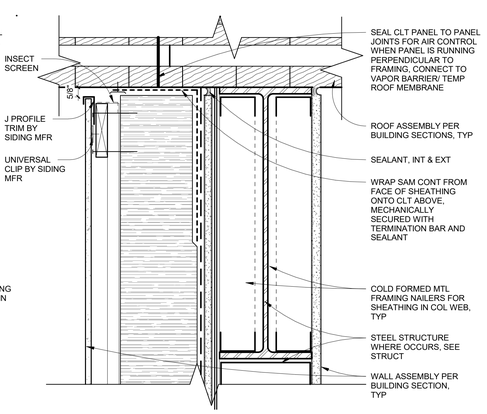
SHEET:
A8.2



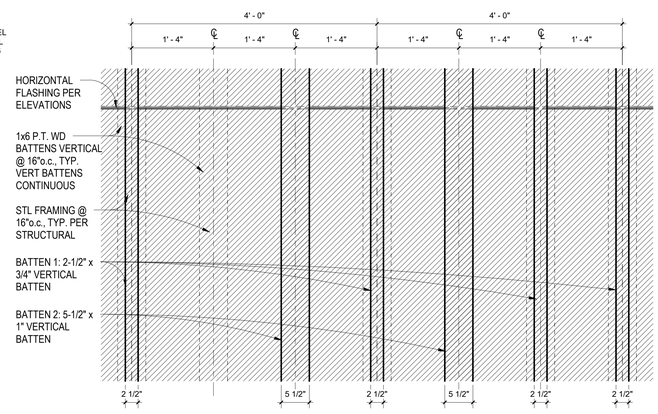
1 HPL SIDING TOP OF WALL @ CLT
3" = 1'-0"



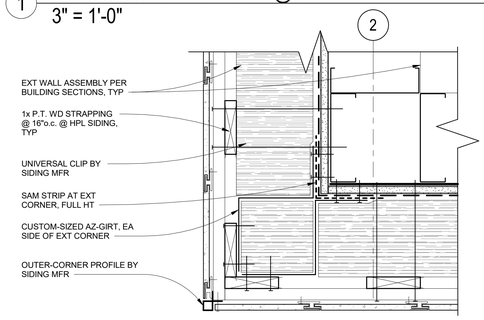
5 TOP OF WALL @ HPL
3" = 1'-0"



9 TOP OF WALL @ HPL (NATATORIUM)
3" = 1'-0"



13 PANEL SIDING FASTENING
1" = 1'-0"



2 HPL SIDING OUTSIDE CORNER
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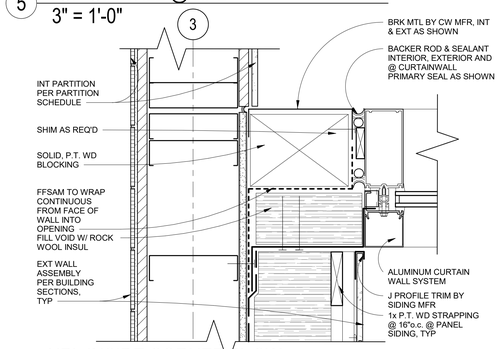

6 HPL INSIDE CORNER @ CW
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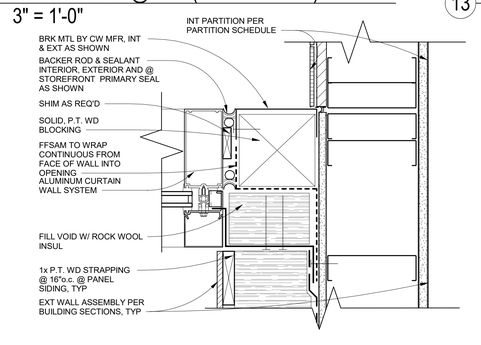
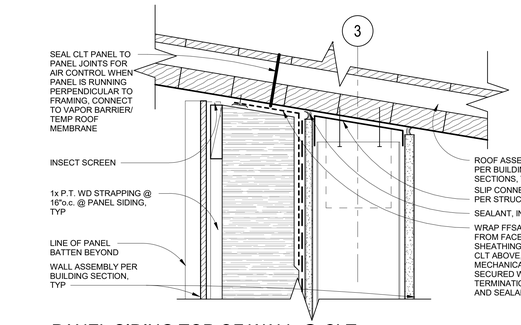
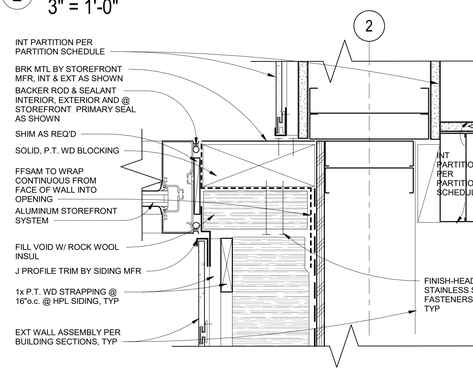


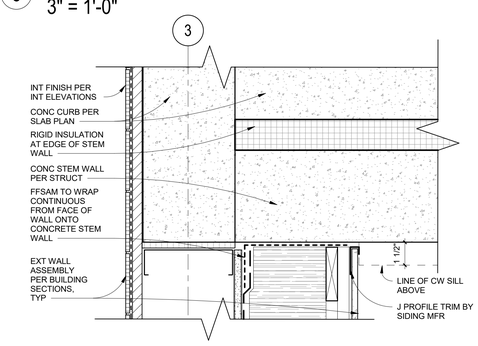
10 PANEL SIDING INSIDE CORNER @ CW
3" = 1'-0"



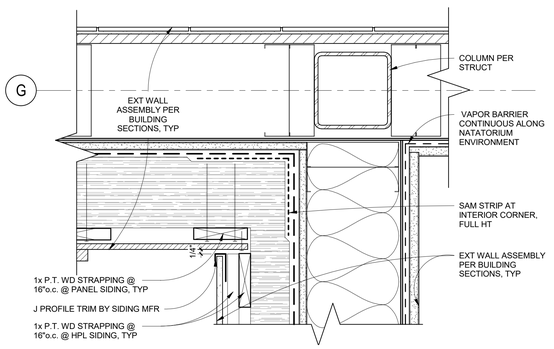
14 PANEL SIDING TOP OF WALL @ CLT
3" = 1'-0"



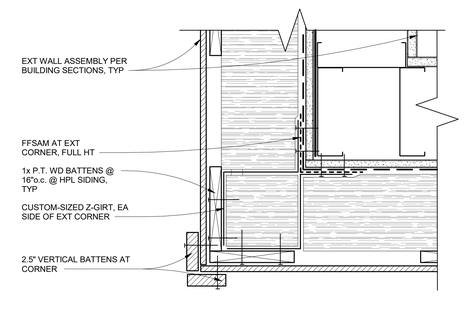
3 HPL INSIDE CORNER @ STOREFRONT
3" = 1'-0"



7 HPL INSIDE CORNER @ CONC. CURB
3" = 1'-0"



11 PANEL SIDING INSIDE CORNER @ HPL
3" = 1'-0"



15 CEM. SIDING OUTSIDE CORNER
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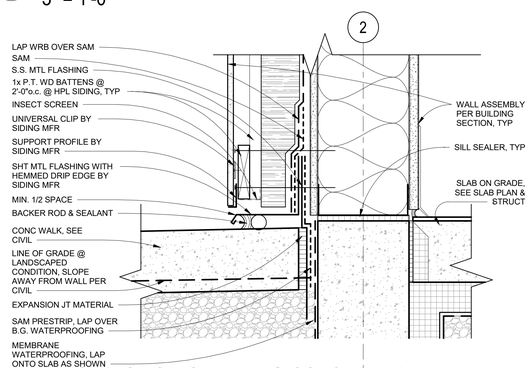
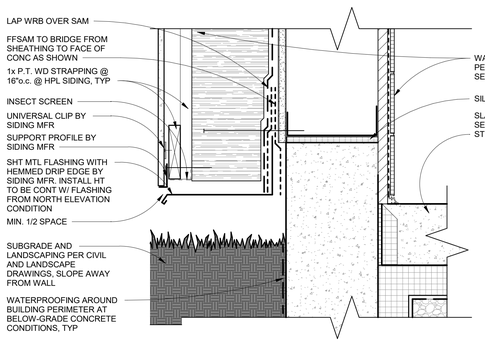
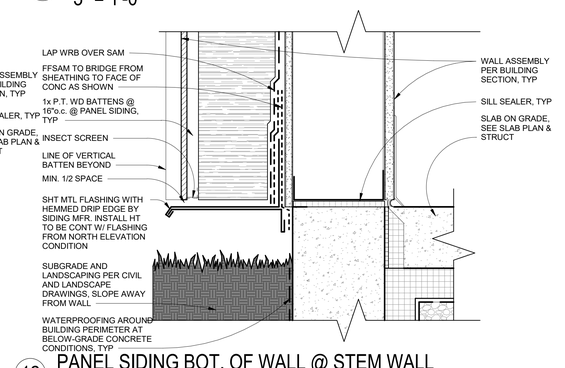


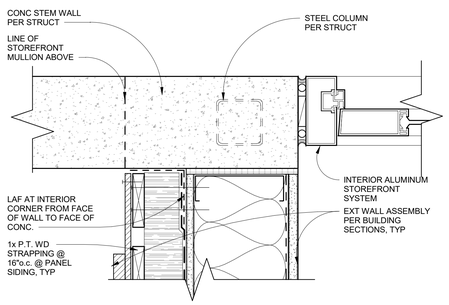
4 HPL SIDING BOT. OF WALL @ CONC. WALK
3" = 1'-0"



8 HPL SIDING BOT. OF WALL @ CONC. STEM WALL
3" = 1'-0"



12 PANEL SIDING BOT. OF WALL @ STEM WALL
3" = 1'-0"



16 PANEL SIDING INSIDE CORNER @ CONC CURB
3" = 1'-0"

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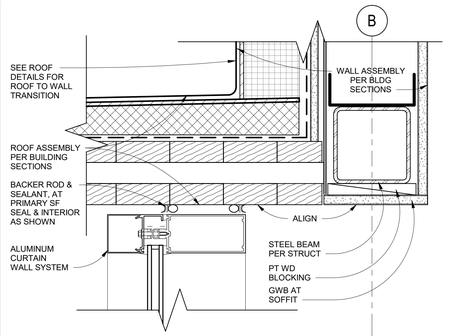
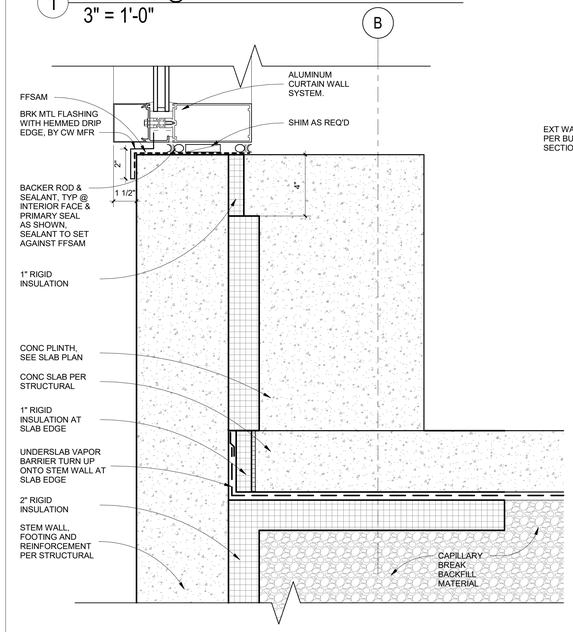
SHEET:

A8.3



1 CW HEAD @ SPA
3" = 1'-0"



2 CW SILL AT SPA
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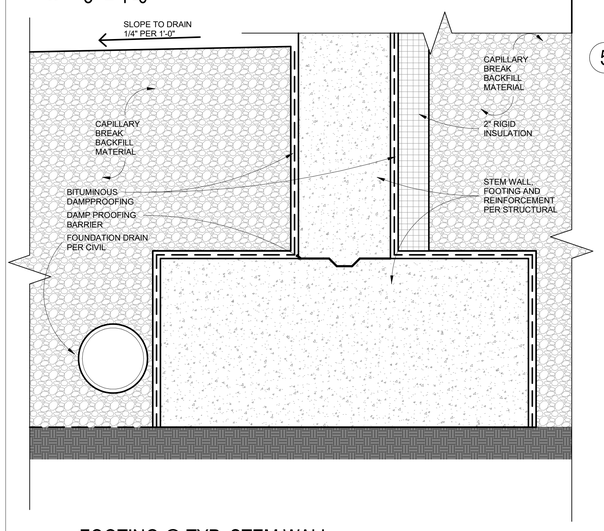
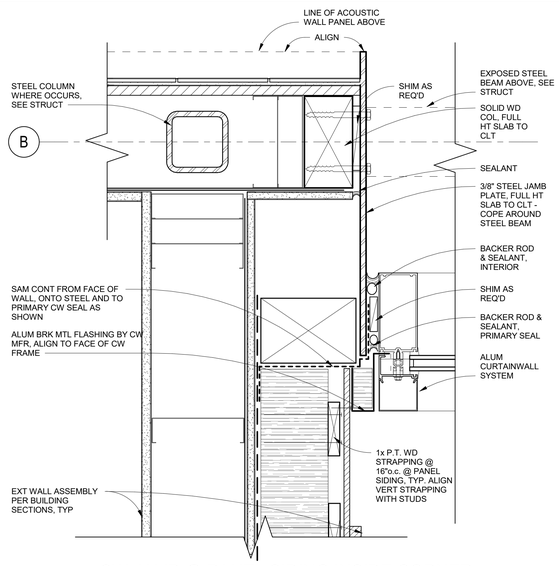
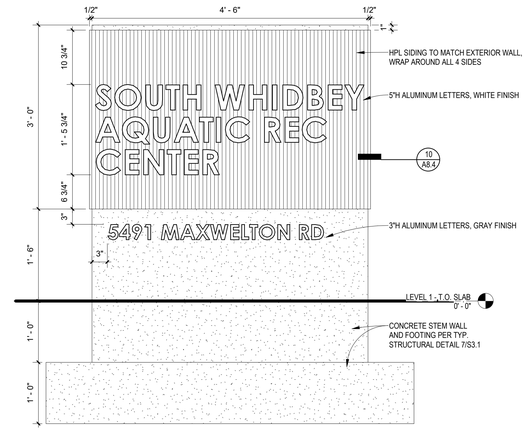


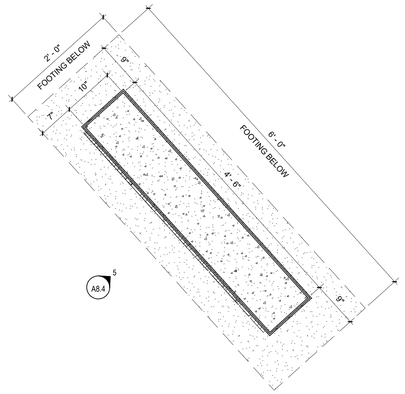
3 FOOTING @ TYP. STEM WALL
3" = 1'-0"



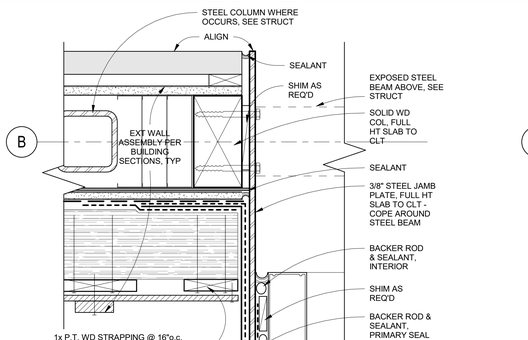
4 CW JAMB @ PANEL SIDING INSIDE CORNER
3" = 1'-0"



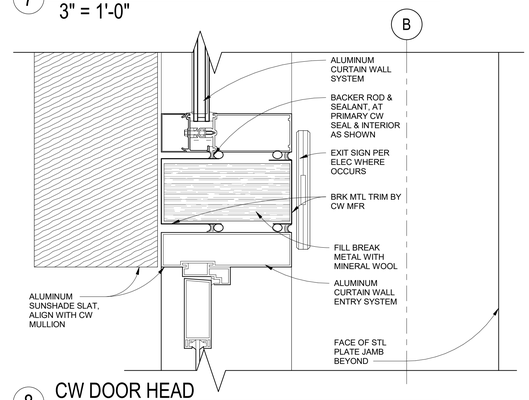
5 MONUMENT SIGN ELEVATION
1" = 1'-0"



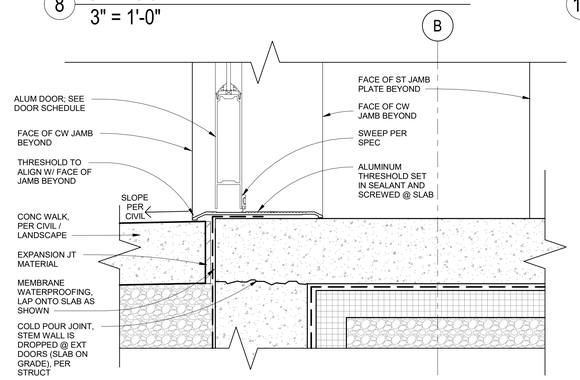
6 MONUMENT SIGN PLAN
1" = 1'-0"



7 CW JAMB @ PANEL SIDING @ NAT.
3" = 1'-0"



8 CW DOOR HEAD
3" = 1'-0"



9 CW DOOR SILL
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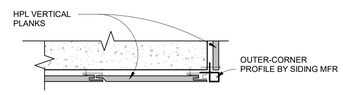
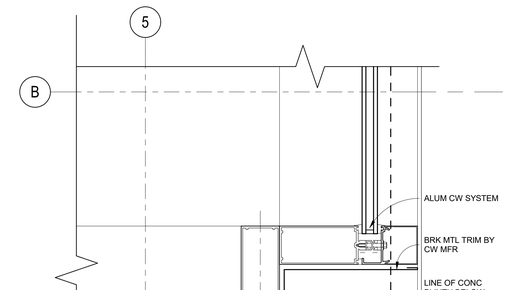
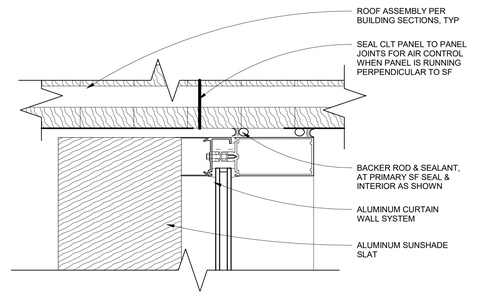


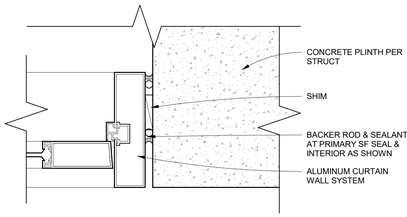
10 MONUMENT SIGN DETAIL
3" = 1'-0"



11 CW CORNER
3" = 1'-0"



12 CW HEAD @ CLT
3" = 1'-0"



13 CW DOOR JAMB @ CONC
3" = 1'-0"

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SCALE: As indicated
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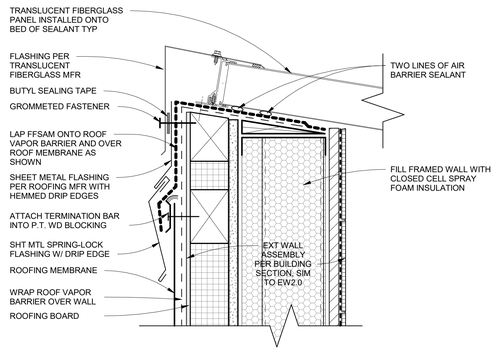
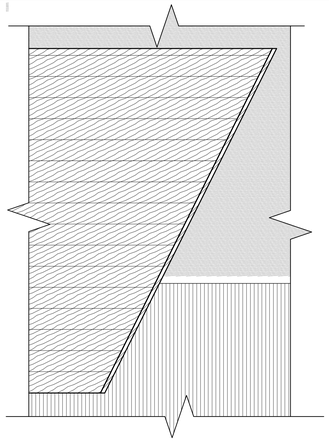
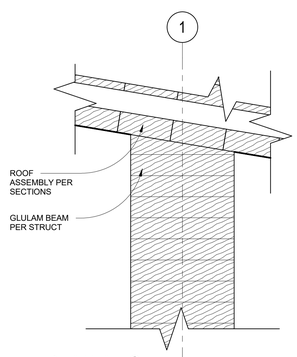


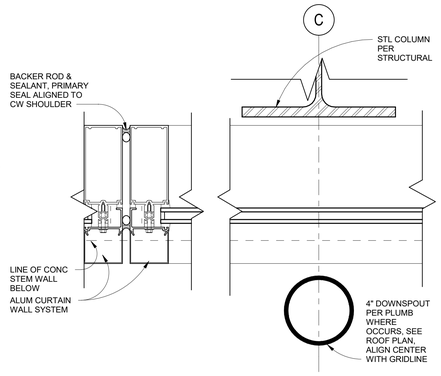
1 TOP OF SKYLIGHT
3" = 1'-0"



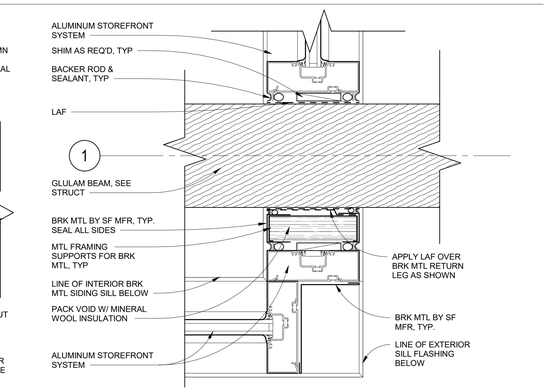
4 END OF BEAM
3" = 1'-0"



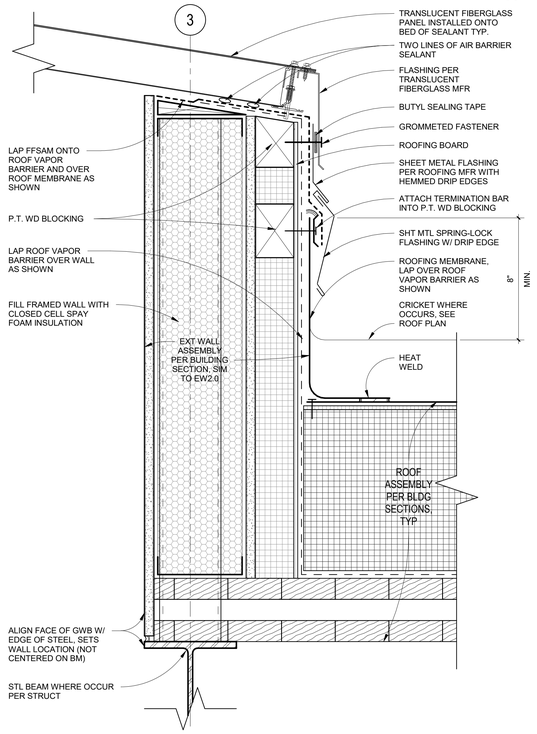
7 BEAM AT CLT
3" = 1'-0"



8 DOWNSPOUT @ CW
3" = 1'-0"



12 BEAM PENETRATION @STOREFRONT
3" = 1'-0"



2 BOTTOM OF SKYLIGHT
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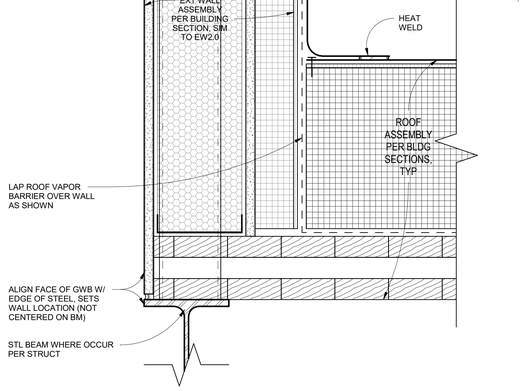

5 SIDE OF SKYLIGHT
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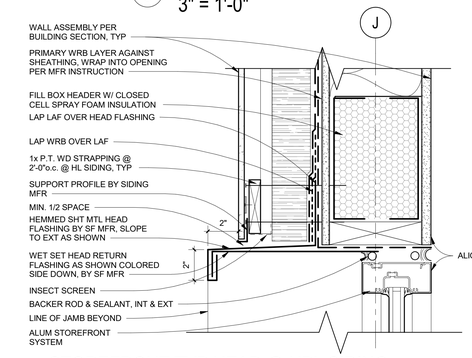

9 STOREFRONT TYP HEAD @ HPL SIDING
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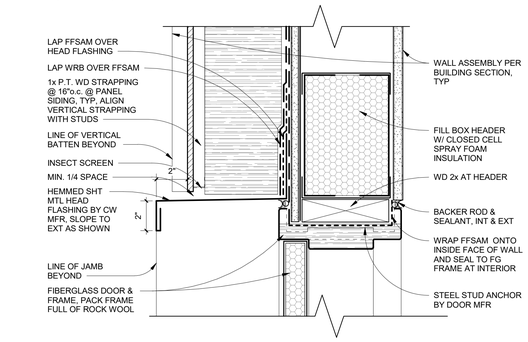
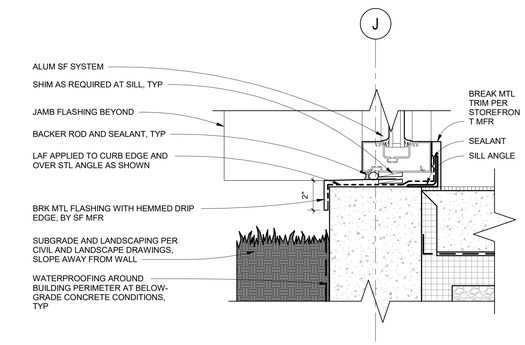


13 FIBERGLASS DOOR HEAD
3" = 1'-0"



10 STOREFRONT SILL @ LANDSCAPE
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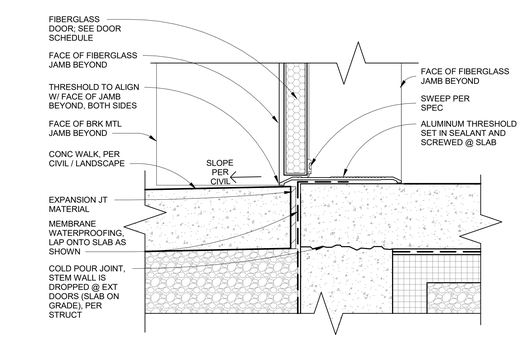

14 FIBERGLASS DOOR SILL
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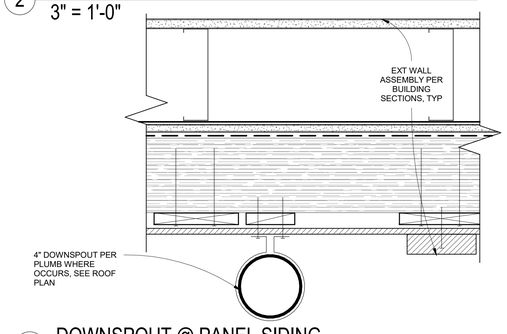

3 DOWNSPOUT @ PANEL SIDING
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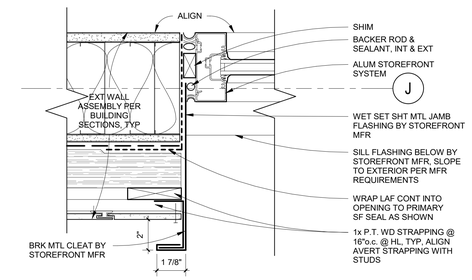
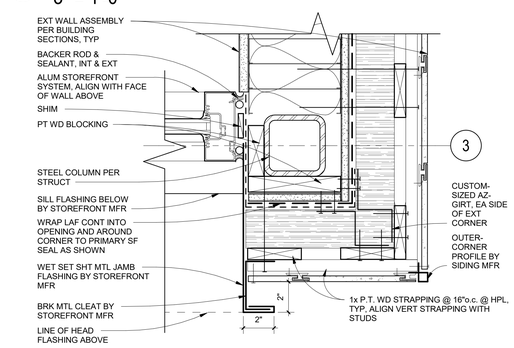
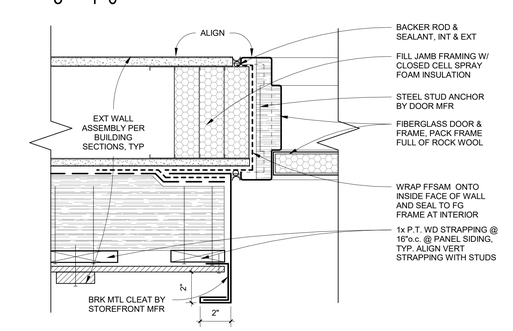


6 STOREFRONT TYP JAMB @ HPL SIDING
3" = 1'-0"



11 STOREFRONT JAMB @ MEETING
3" = 1'-0"



15 FIBERGLASS DOOR JAMB
3" = 1'-0"

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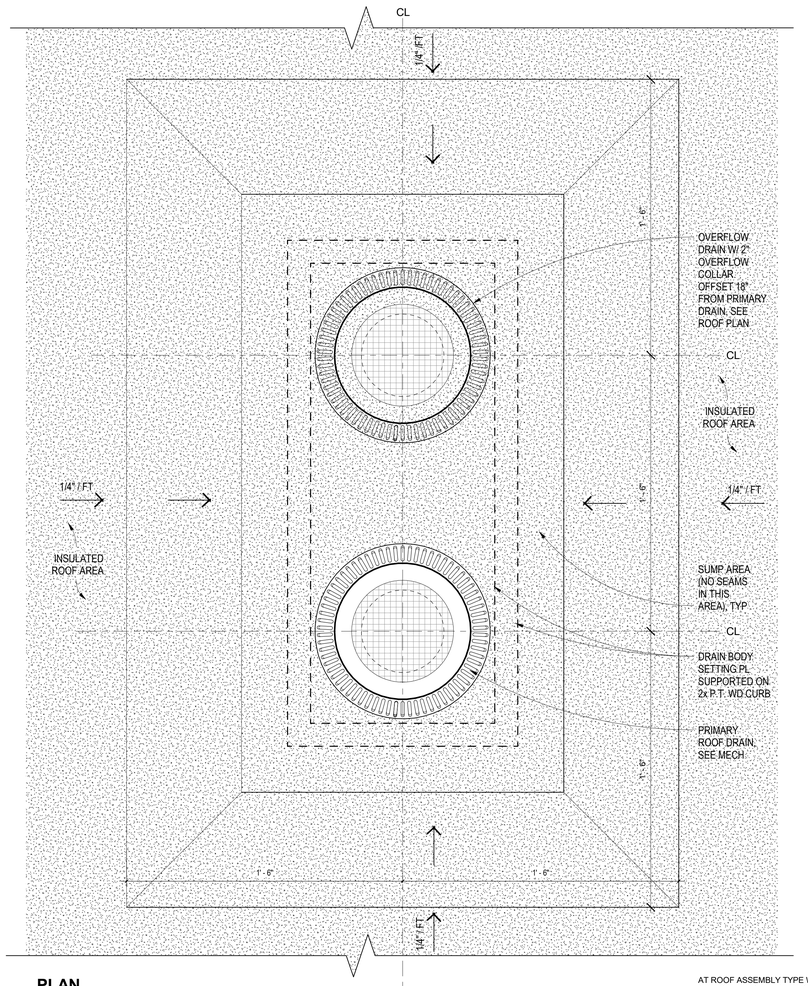
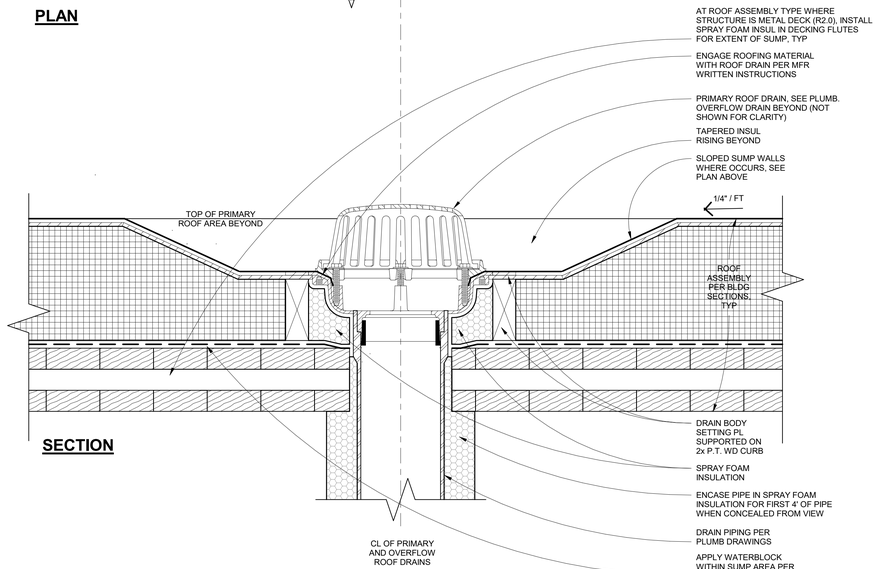


PLAN



SECTION

2 PRIMARY/OVERFLOW ROOF DRAIN SUMP
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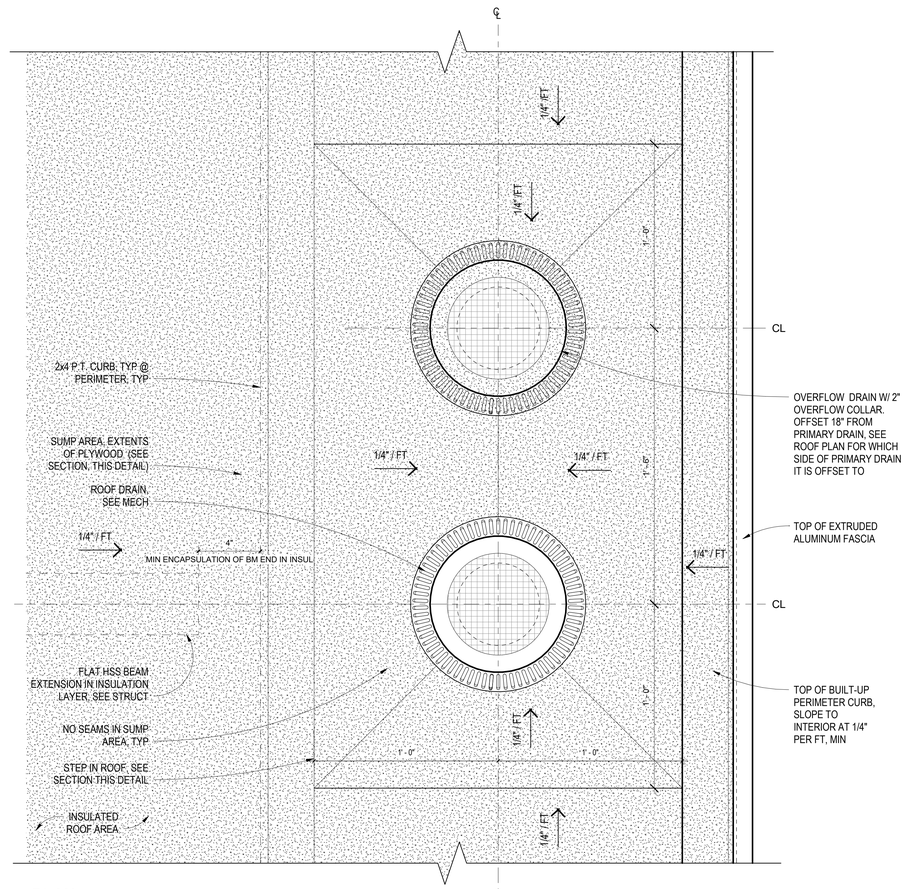
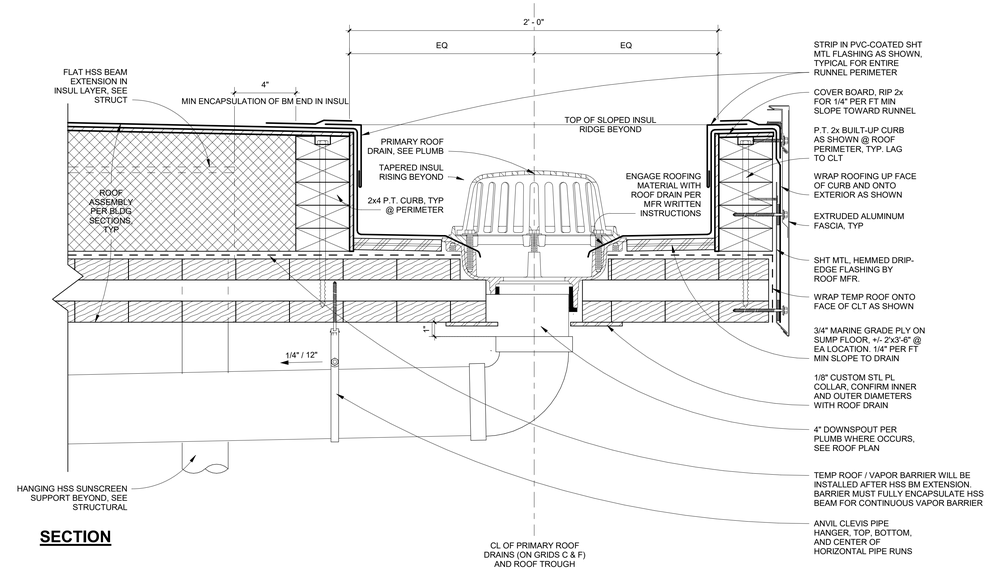


PLAN



SECTION

1 ROOF DRAIN RUNNEL, TYP
3" = 1'-0"

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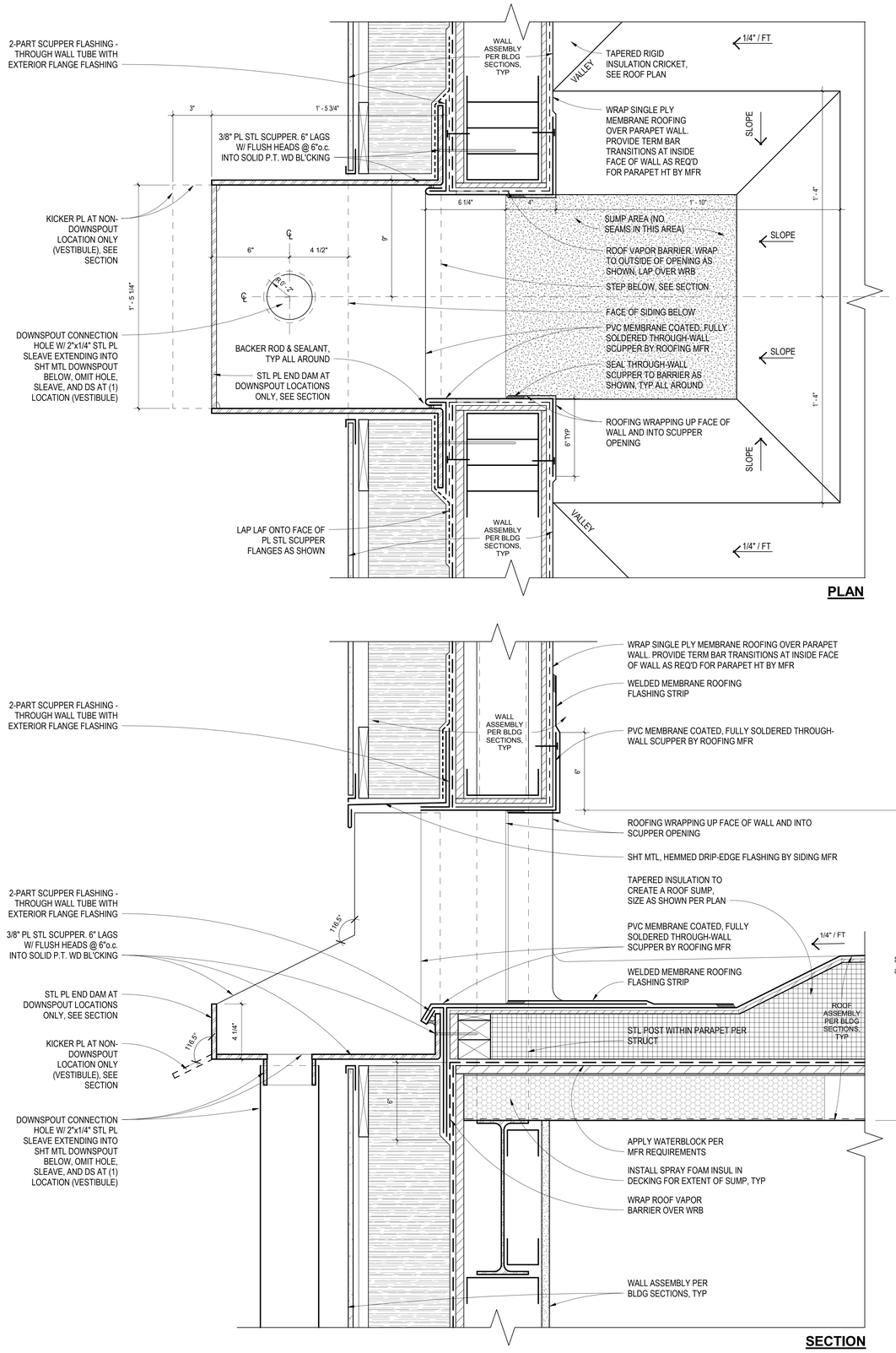
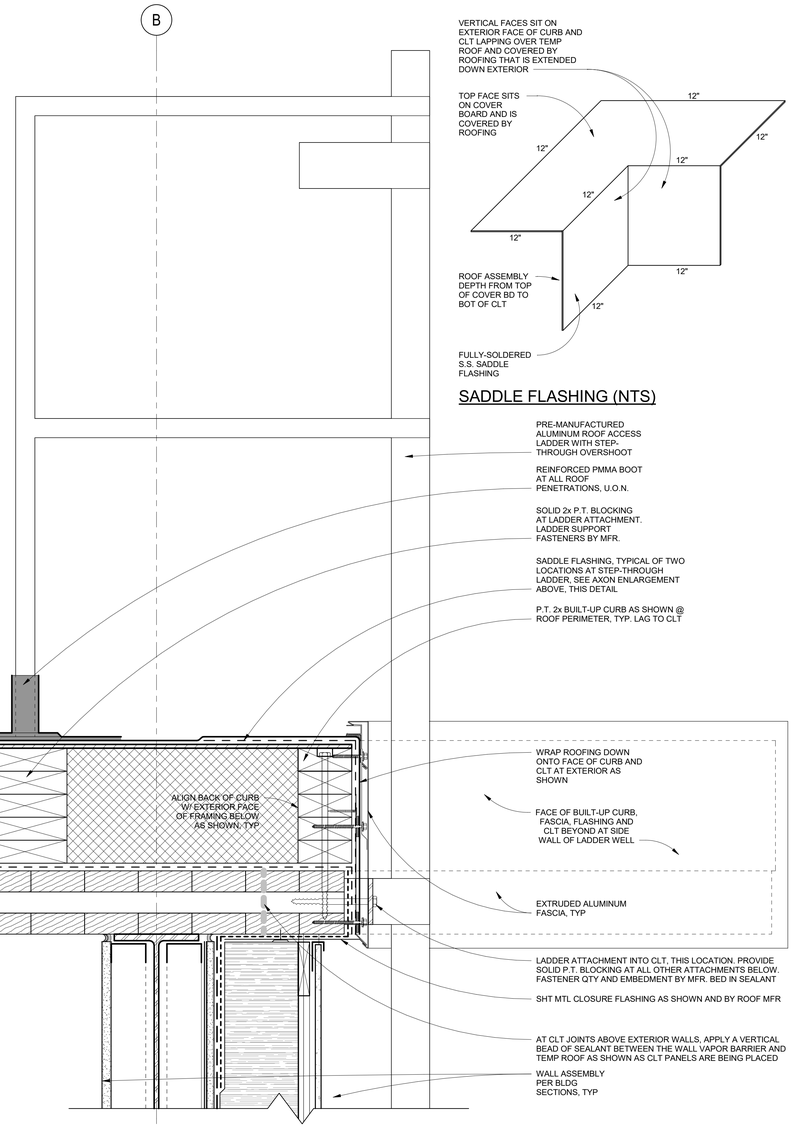


1 THROUGH-WALL SCUPPER
3" = 1'-0"



2 STEP THROUGH LADDER AT ROOF
3" = 1'-0"

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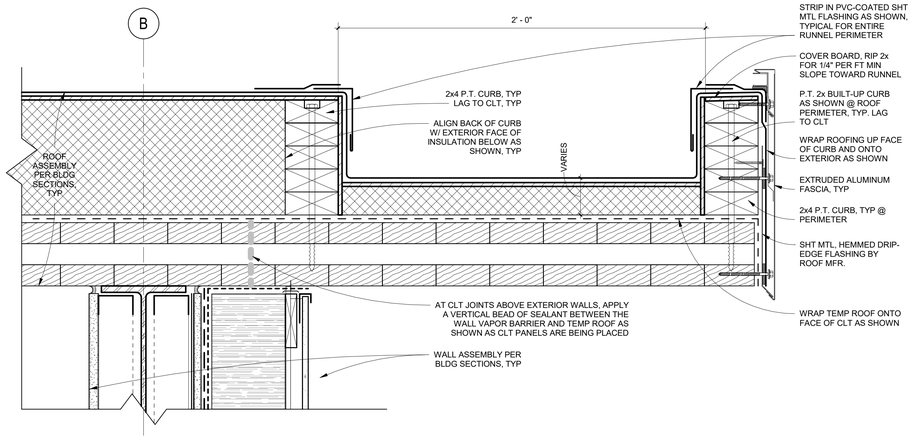

1 ROOF RAKE EDGE
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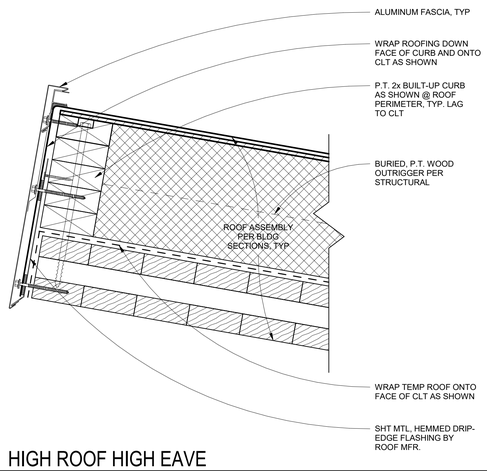

2 HIGH ROOF HIGH EAVE
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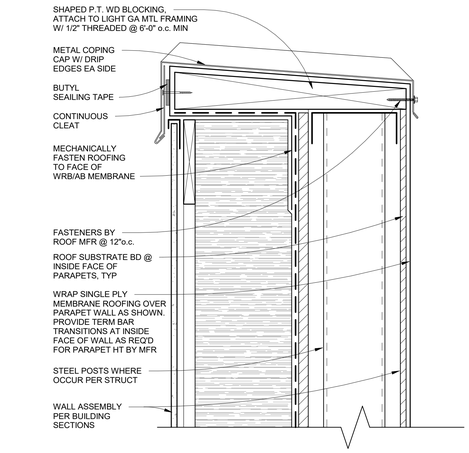
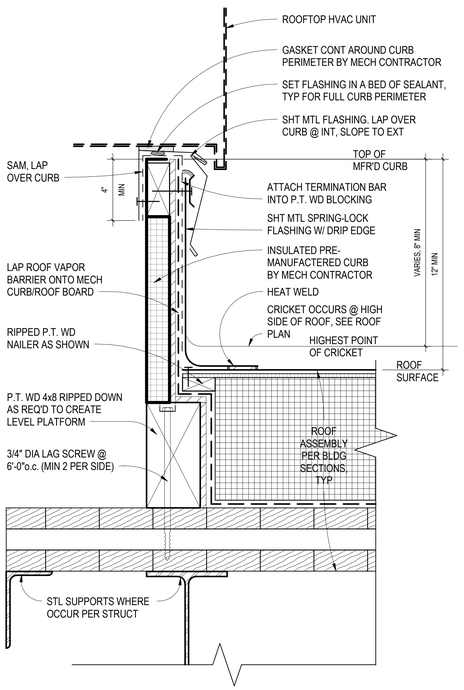
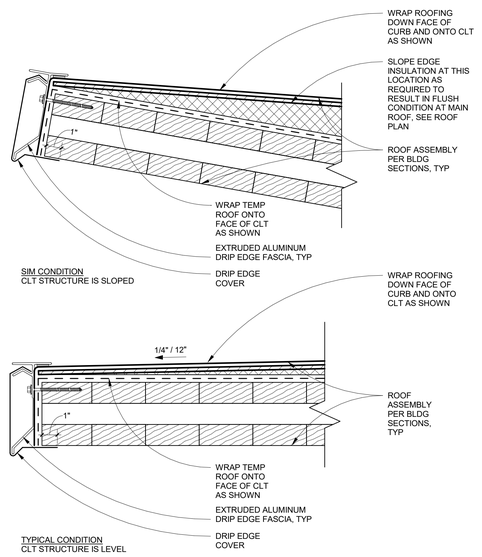


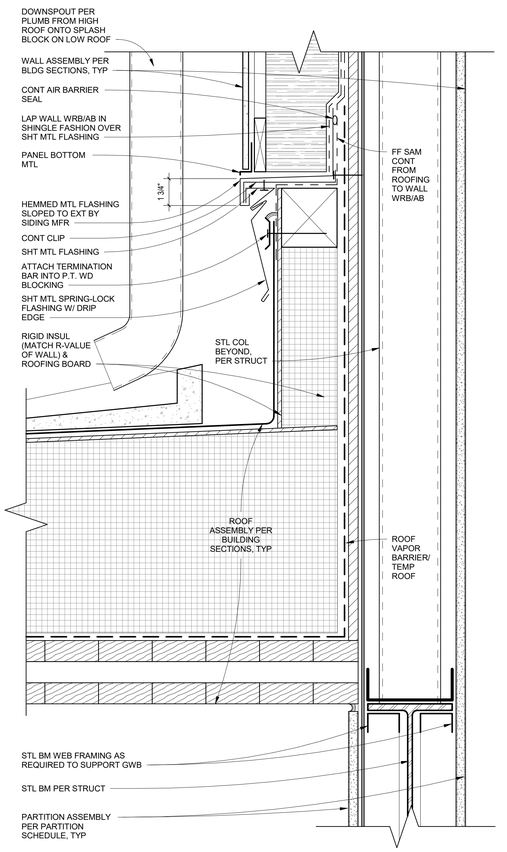
3 PARAPET CAP
3" = 1'-0"



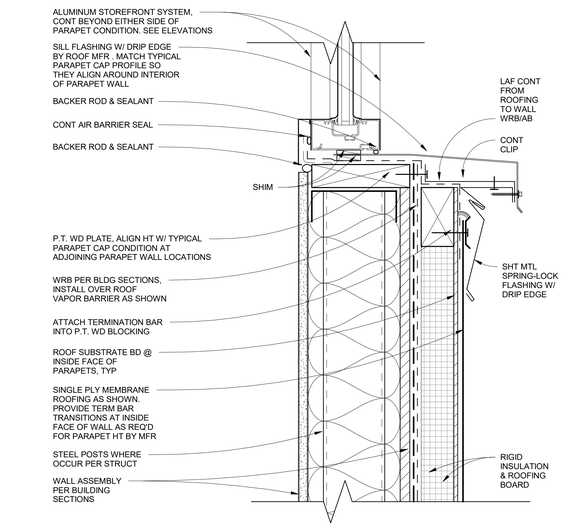
4 ROOF MECH CURB
3" = 1'-0"



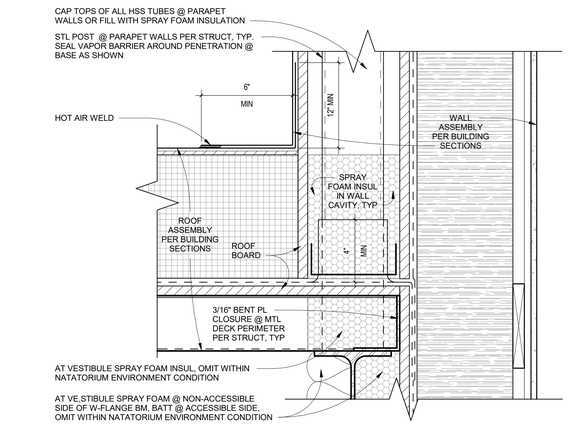
5 LOW ROOF EAVE
3" = 1'-0"



6 ROOF TO WALL TRANSITION
3" = 1'-0"



7 PARAPET CAP/WINDOW SILL
3" = 1'-0"



8 PARAPET WALL BASE
3" = 1'-0"

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LANGLEY, WA 98260

South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
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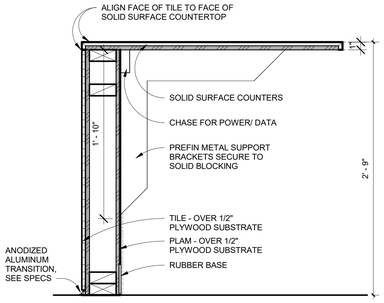
EXTERIOR DETAILS - ROOF

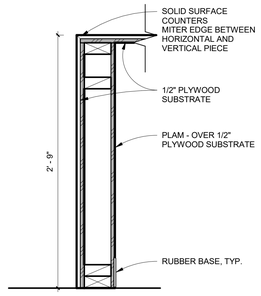
SCALE: 3" = 1'-0"
DRAWN: LP / ES / AP
CHECKED: PC / EW
PROJECT NO: 2022021.000

SHEET:

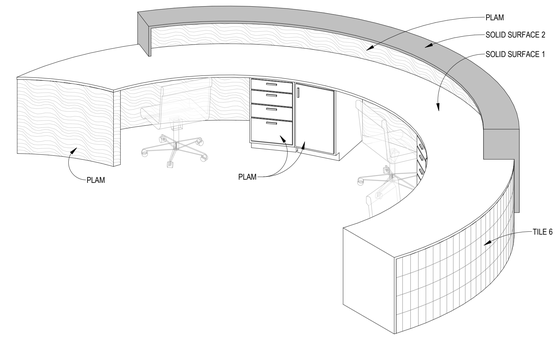
A8.8



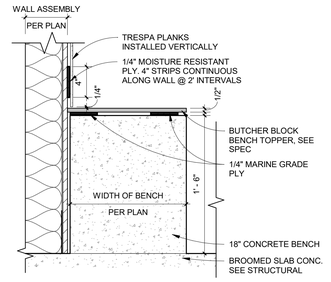
1 LOBBY RECEPTION DESK LOW
1 1/2" = 1'-0"



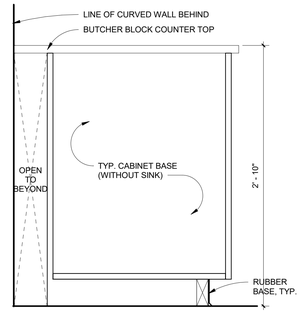
2 LOBBY RECEPTION DESK EDGE
1 1/2" = 1'-0"



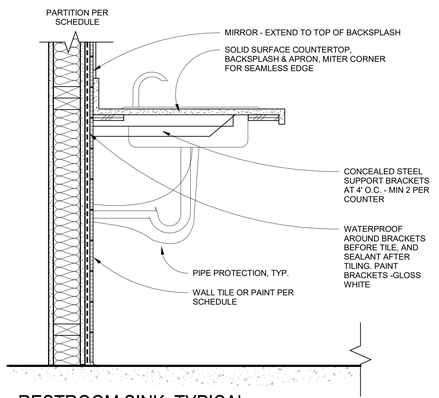
3 LOBBY RECEPTION DESK 3D VIEW



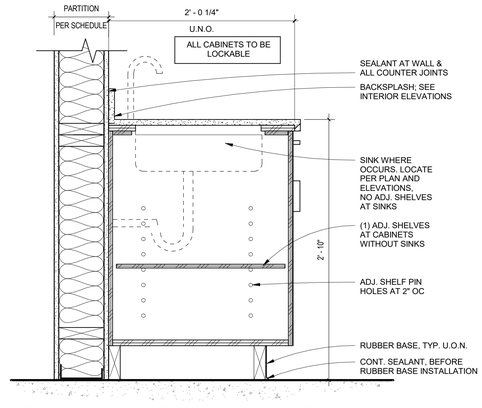
4 CONC. BENCH @ LOBBY
1 1/2" = 1'-0"



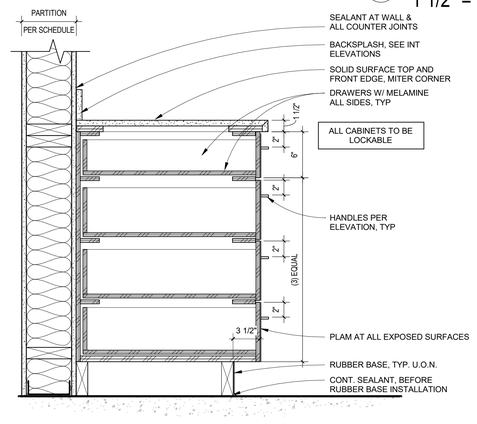
5 LOBBY LOWER CABINET
1 1/2" = 1'-0"



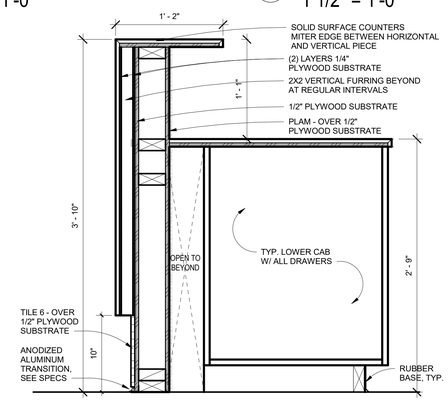
6 RESTROOM SINK, TYPICAL
1 1/2" = 1'-0"



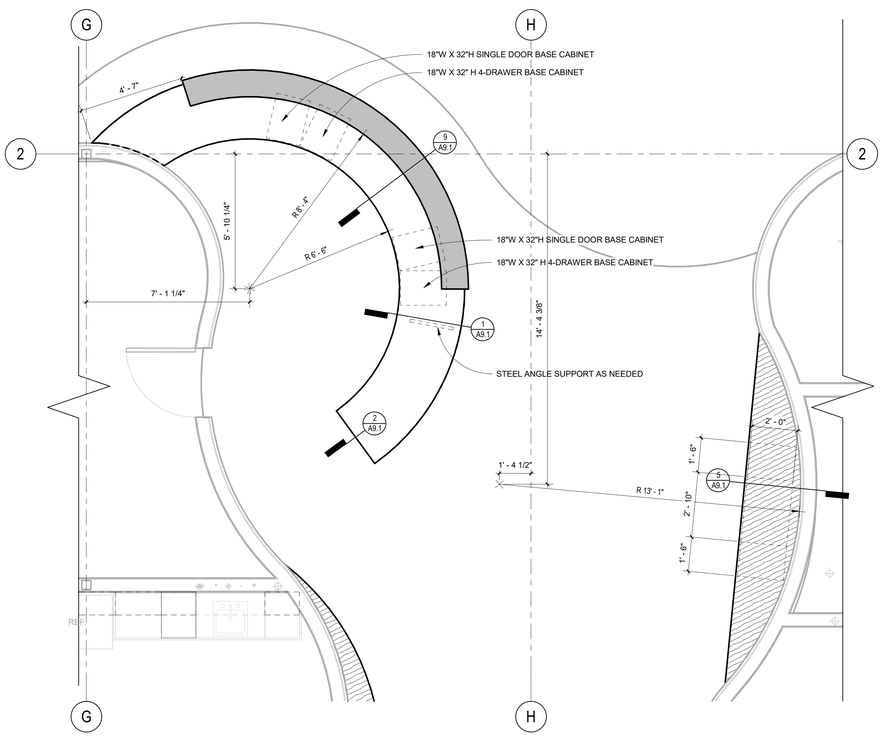
7 CABINET BASE (SINK WHERE OCCURS)
1 1/2" = 1'-0"



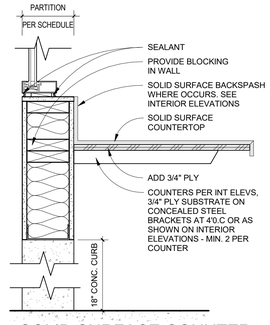
8 LOWER CAB W/ ALL DRAWERS
1 1/2" = 1'-0"



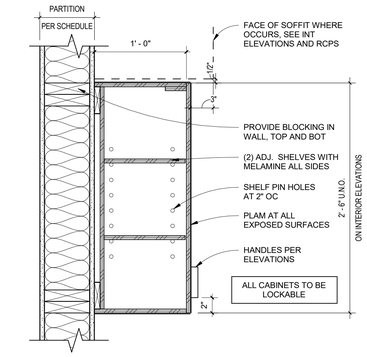
9 LOBBY RECEPTION DESK HIGH
1 1/2" = 1'-0"



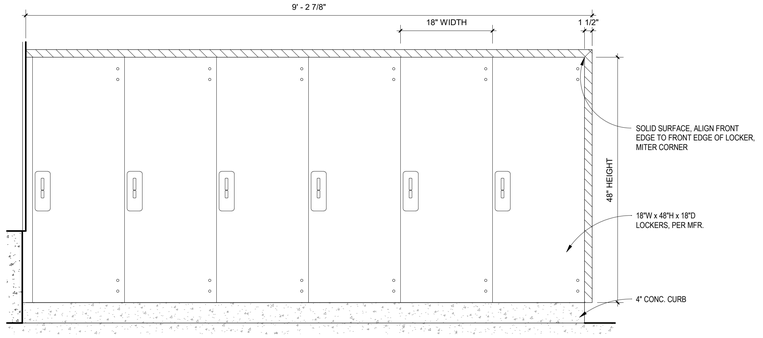
10 LOBBY BENCH AND CASEWORK DETAIL
3/8" = 1'-0"



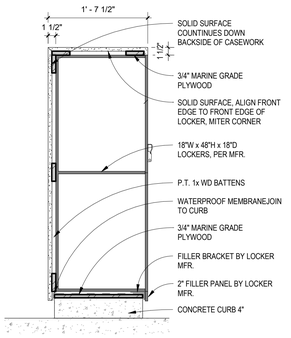
11 SOLID SURFACE COUNTER
1 1/2" = 1'-0"



12 UPPER CABINETS
1 1/2" = 1'-0"



13 LOCKERS @ LIFEGUARD WEST
1" = 1'-0"



14 LIFEGUARD LOCKERS
1" = 1'-0"

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PROJECT NO: 2022021.000

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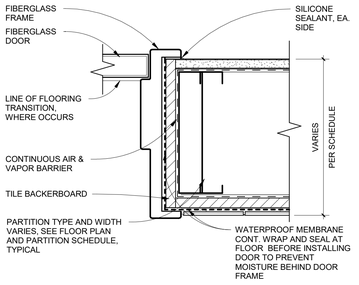
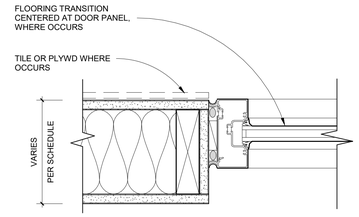


1 FIBREGLASS DOOR JAMB/HEADER @ TILE
3" = 1'-0"



2 TYP. AL. DOOR JAMB/HEADER DETAIL
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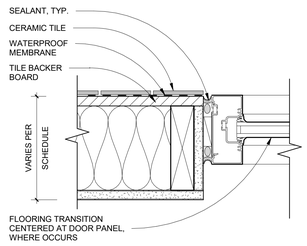
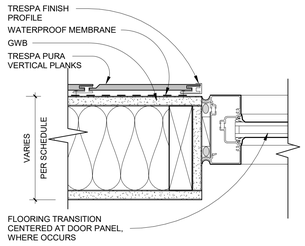
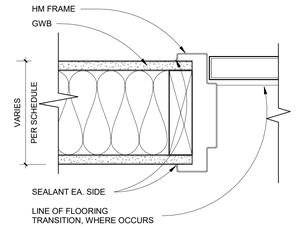


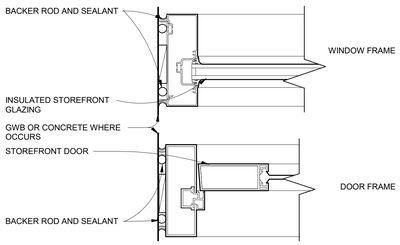
3 TYP. AL DOOR JAM/HEADER @ TILE
3" = 1'-0"



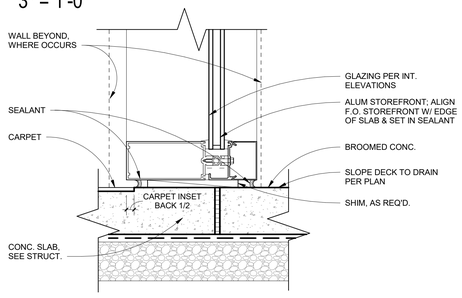
4 TYP. AL DOOR JAM/HEADER @ TRESPA
3" = 1'-0"



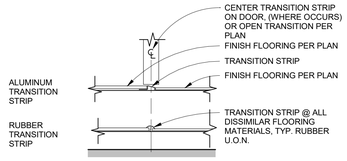
5 TYP. HM DOOR JAM/HEADER
3" = 1'-0"



6 SEAL STOREFRONT TO GWB/CONC.
3" = 1'-0"



7 CURTAINWALL SILL @ NATATORIUM
3" = 1'-0"



8 TYP. TRANSITION STRIP
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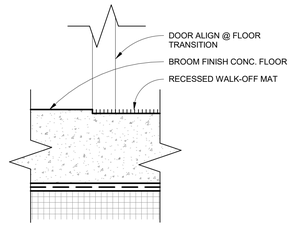
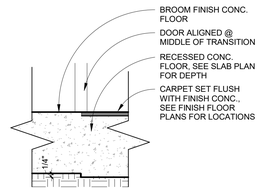


9 CONC./INT. WALK OFF MAT
3" = 1'-0"



10 RECESSED CONC. SLAB
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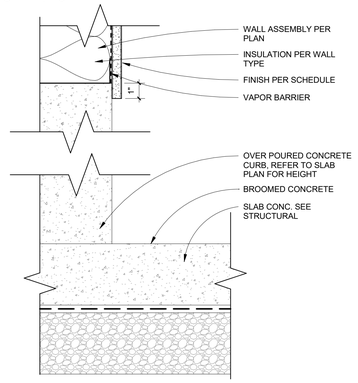

11 WALL BASE @ GWB W/ OVER POURED CONC. CURB
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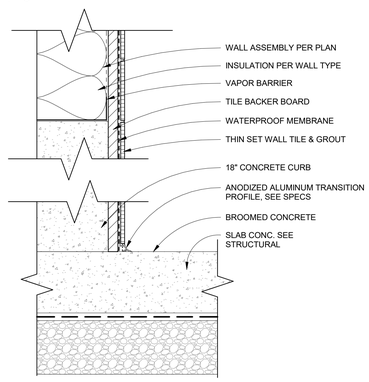
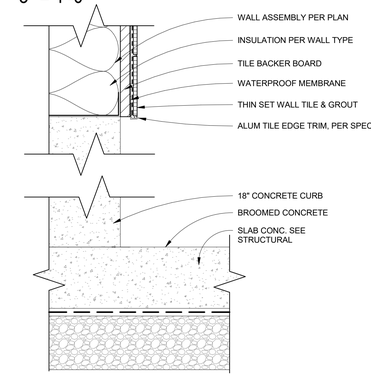
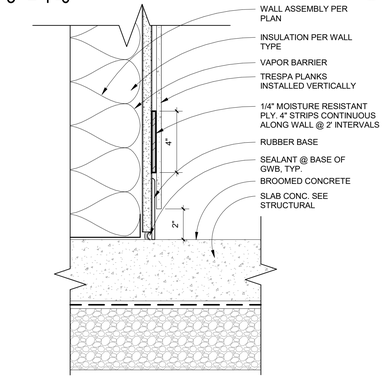


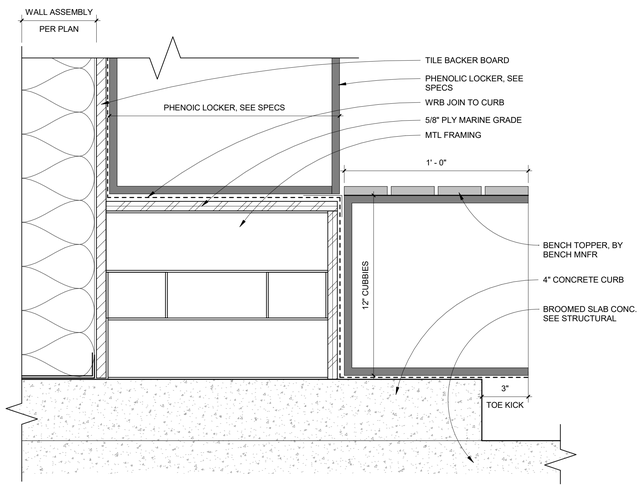
12 WALL BASE @ TILE
3" = 1'-0"



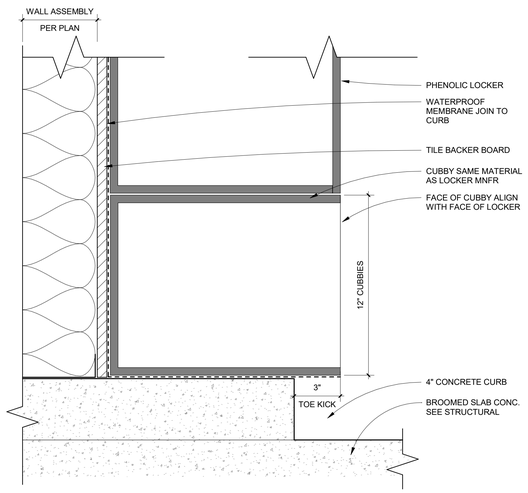
13 WALL BASE @ TILE IN NATATORIUM
3" = 1'-0"



14 WALL BASE @ TRESPA
3" = 1'-0"



15 WALL BASE @ LOCKERS W/ BENCH
3" = 1'-0"



16 WALL BASE @ LOCKERS
3" = 1'-0"

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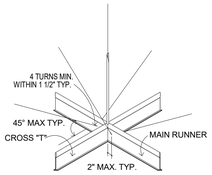
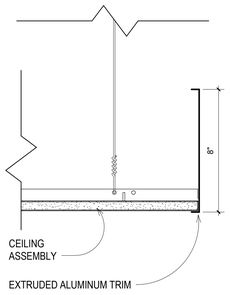
A9.2



ACT CEILING BRACING DETAIL SHOWING LATERAL BRACING CLUSTER AND SUSPENSION WIRE.

PROVIDE SEISMIC BRACING PER SPECIFICATIONS

1 TYPICAL SUSP. ACT CEILING BRACING
3" = 1'-0"



2 TYP. ACOUSTIC CEILING CLOUD
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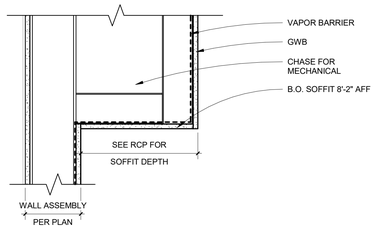
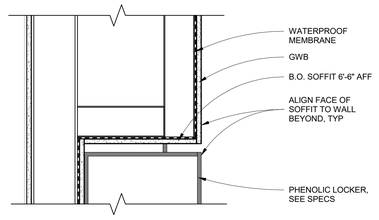
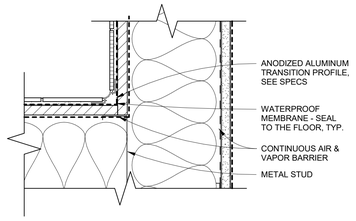


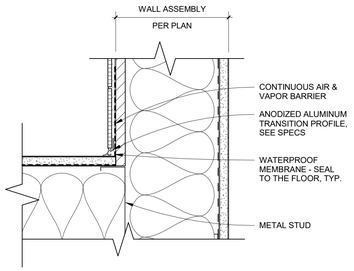
3 GWB SOFFIT
1 1/2" = 1'-0"



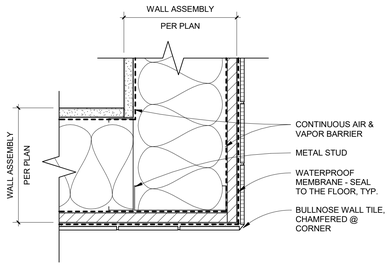
4 LOCKERS @ SOFFIT
1 1/2" = 1'-0"



5 WALL TILE INNER CORNER DETAIL
3" = 1'-0"



6 WALL TILE @ GWB INNER CORNER
3" = 1'-0"



7 WALL TILE OUTER CORNER DETAIL
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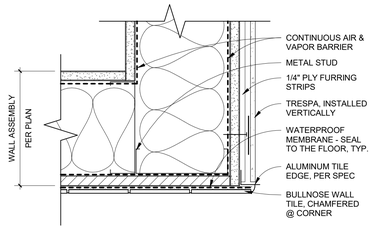

8 WALL TILE TO TRESPA CORNER DETAIL
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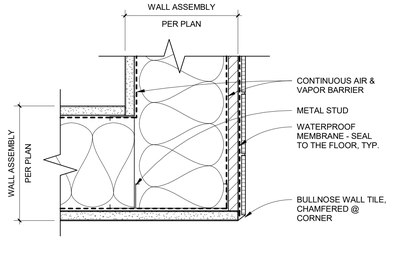
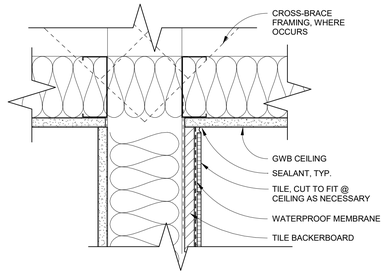
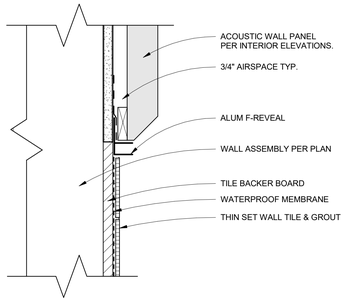


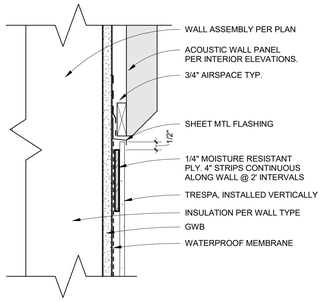
9 WALL TILE @ GWB CORNER DETAIL
3" = 1'-0"



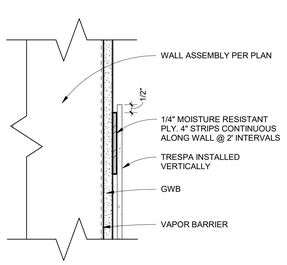
10 CERAMIC TILE/GWB CEILING, TYP.
3" = 1'-0"



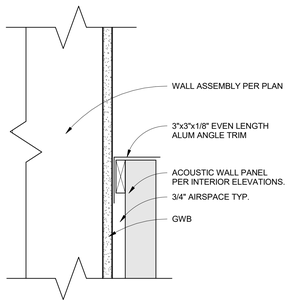
11 ACOUSTIC PANEL @ TILE IN NATATORIUM
3" = 1'-0"



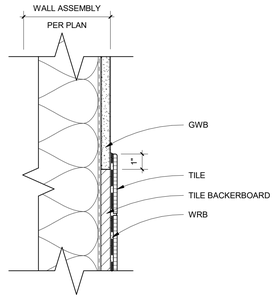
12 ACOUSTIC PANEL @ TRESPA IN NATATORIUM
3" = 1'-0"



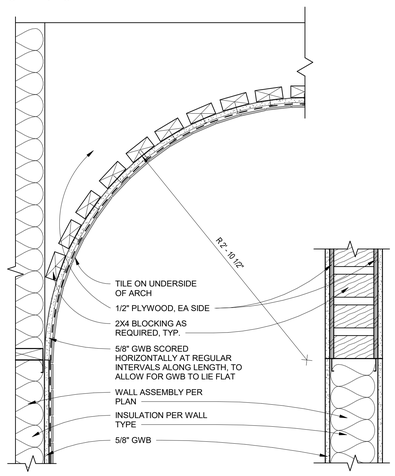
13 TRESPA @ INDOOR FOREST
3" = 1'-0"



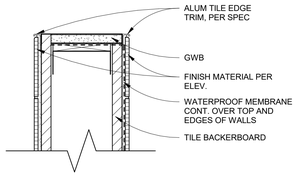
14 ACOUSTIC PANEL @ GWB
3" = 1'-0"



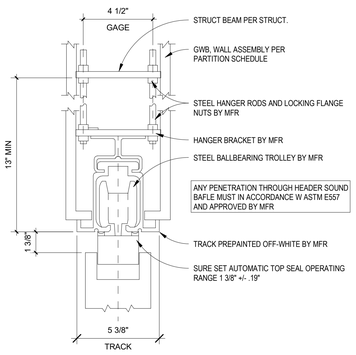
15 CERAMIC TILE @ GWB WALLS, TYP.
3" = 1'-0"



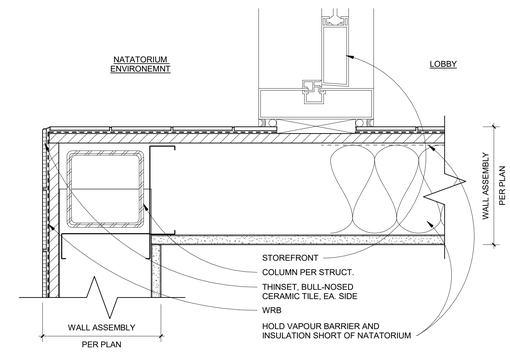
16 ARCH FRAMING
1 1/2" = 1'-0"



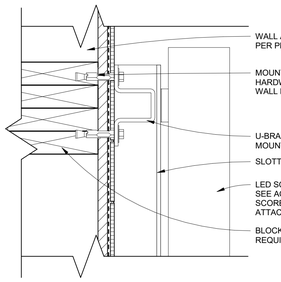
17 LOCKER ROOM WING WALL
3" = 1'-0"



18 OPERABLE WALL TRACK SYSTEM MOUNT
3" = 1'-0"



19 STOREFRONT @ LOBBY
3" = 1'-0"



20 SCOREBOARD @ TILE IN NATATORIUM
3" = 1'-0"

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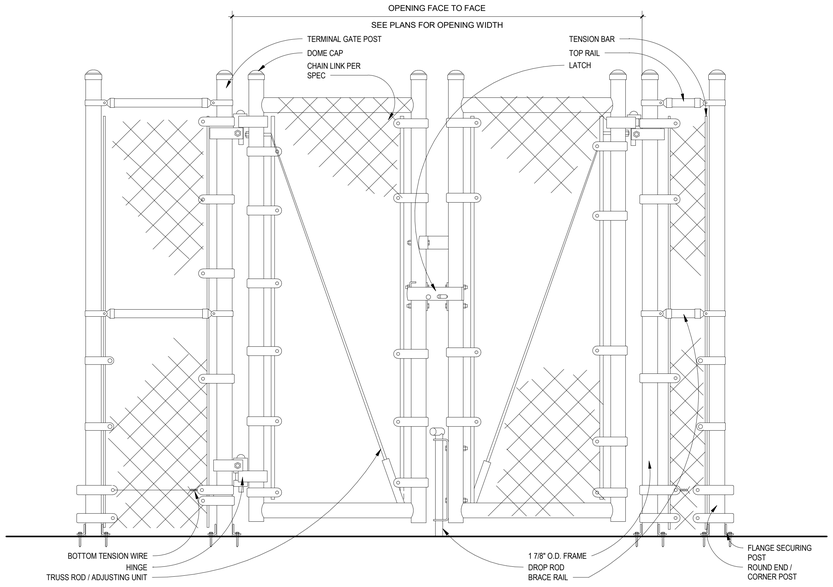
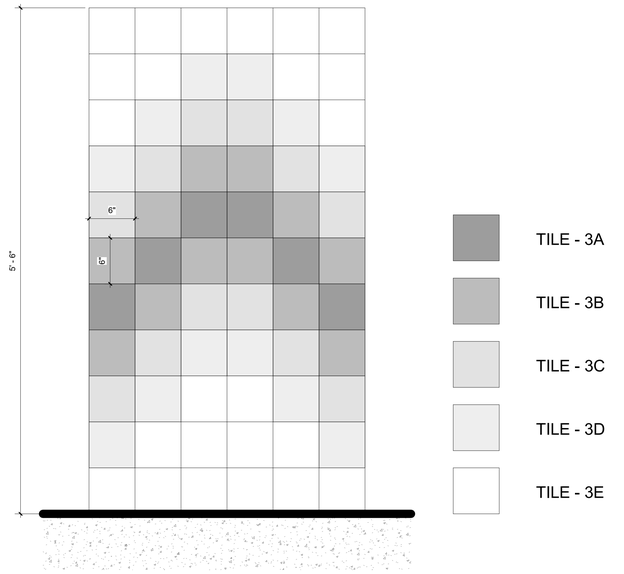


1 CHAIN LINK FENCE @ AQ STORAGE
1" = 1'-0"



2 TILE 3 PATTERN
1 1/2" = 1'-0"

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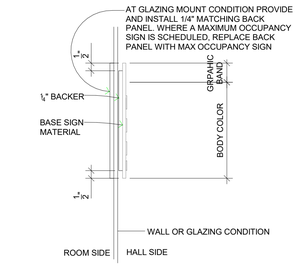
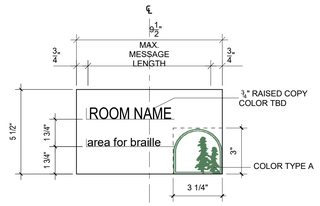
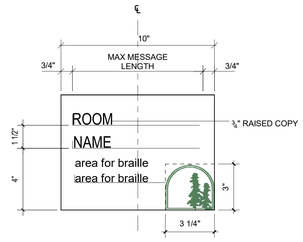


1 SECTION - SIGN TYPE A
3" = 1'-0"



2 SIGN TYPE A.1 - STANDARD ROOM (1 LINE)
3" = 1'-0"



3 SIGN TYPE A.2 - STANDARD ROOM (2 LINE)
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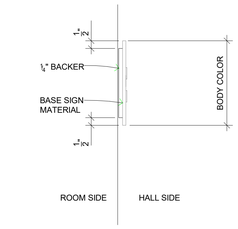
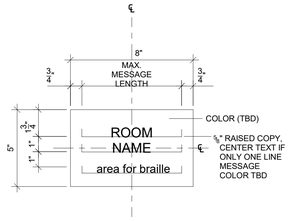


4 SECTION - SIGN TYPE B
3" = 1'-0"



5 SIGN TYPE B.1
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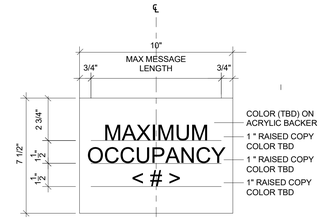

6 SIGN TYPE B.2
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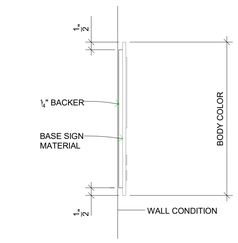
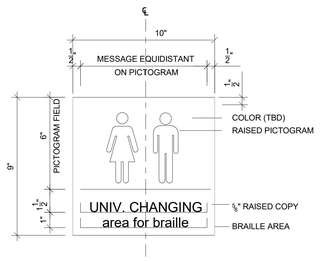
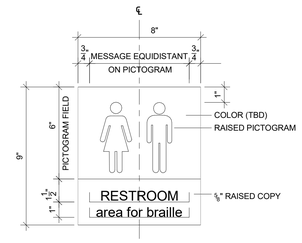


7 SECTION - SIGN TYPE C
3" = 1'-0"



8 SIGN TYPE C.1
3" = 1'-0"



9 SIGN TYPE C.2
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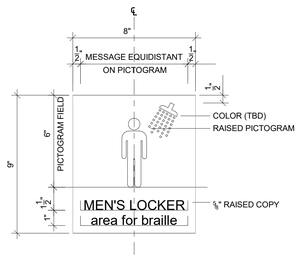
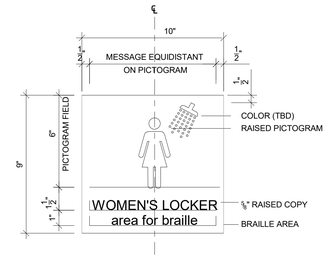


10 SIGN TYPE C.3
3" = 1'-0"

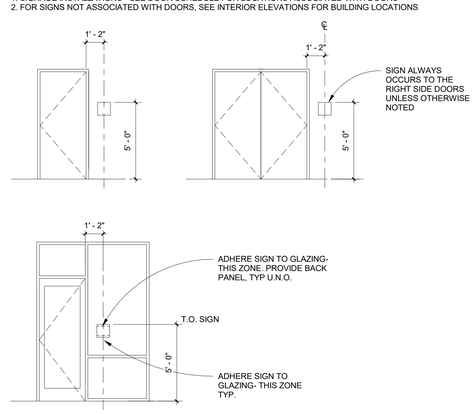


11 SIGN TYPE C.4
3" = 1'-0"

SIGN INSTALLATION

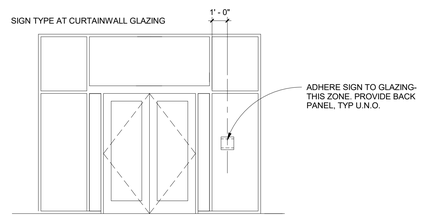
SIGN NOTES:

1. SIGNAGE INSTALLATIONS - SEE DOOR SCHEDULE FOR LOCATIONS ASSOCIATED WITH DOORS
2. FOR SIGNS NOT ASSOCIATED WITH DOORS, SEE INTERIOR ELEVATIONS FOR BUILDING LOCATIONS



SIGN TYPE AT SIDELITE GLAZING, TYP.

SIGN TYPE AT CURTAINWALL GLAZING



12 SIGNAGE INSTALLATION
1/4" = 1'-0"

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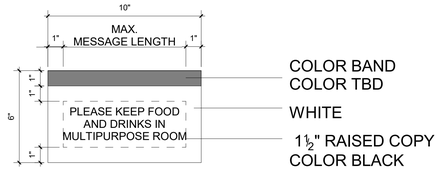
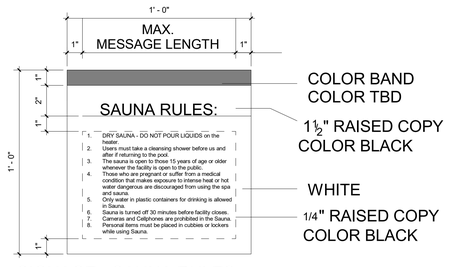
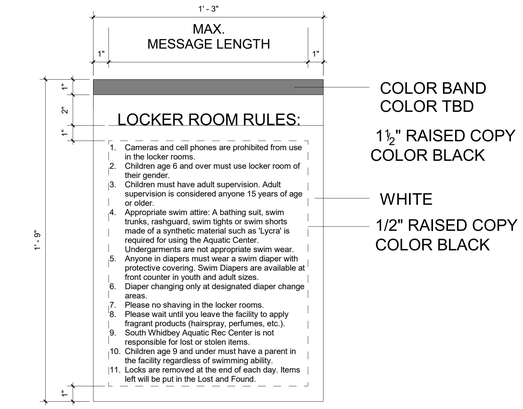


7 SIGNAGE - MULTIPURPOSE ROOMS
3" = 1'-0"

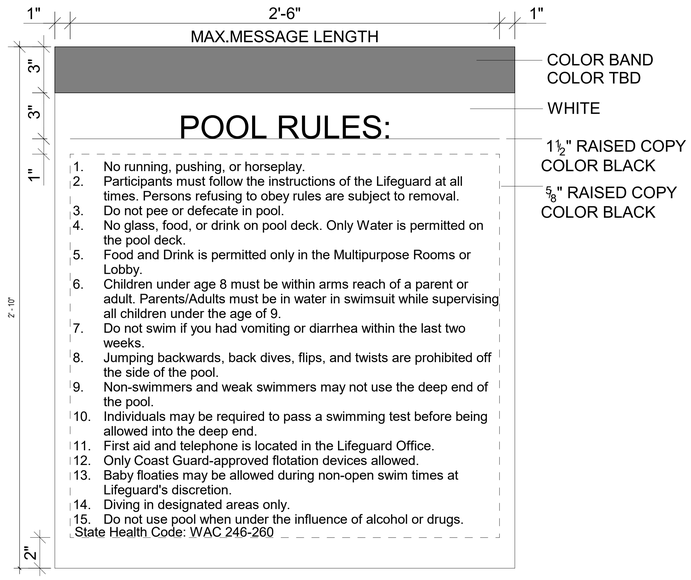


10 SIGNAGE - SAUNA RULES
3" = 1'-0"

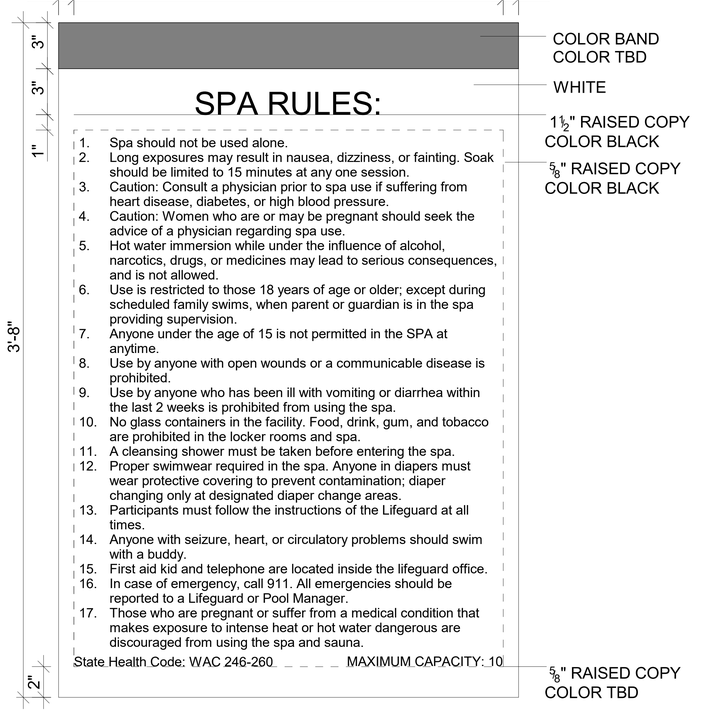


2 SIGNAGE - LOCKER RULES
3" = 1'-0"

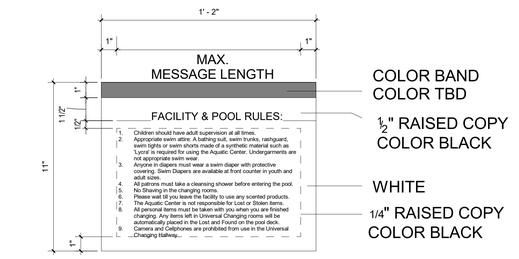
5 SIGNAGE - POOL ENTRY RULES
3" = 1'-0"



3 SIGNAGE - POOL RULES
3" = 1'-0"



8 SIGNAGE - SPA RULES
3" = 1'-0"



9 SIGNAGE - FACILITY AND POOL RULES
3" = 1'-0"

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SCALE: 3" = 1'-0"
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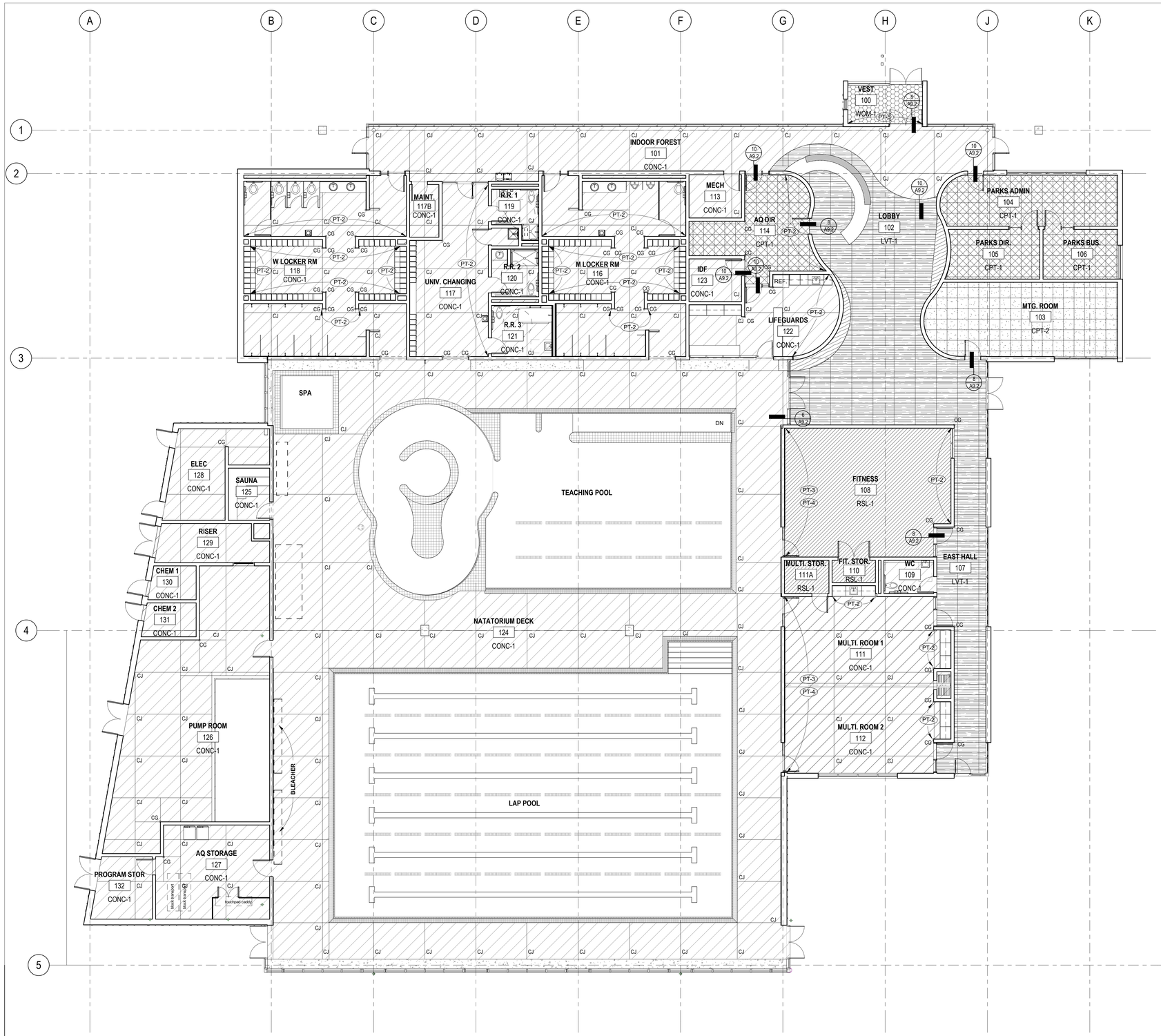

1 LEVEL 1 FINISH PLAN
1/8" = 1'-0"

FINISH PLAN NOTES:

1. PAINT AT GWB WALLS TO BE PT-1, SATIN FINISH, U.N.O.
2. PAINT AT INTERIOR EXPOSED METAL DECK CEILINGS TO BE PT-1, U.N.O.
3. PAINT ALL EXPOSED CONDUITS, UNISTRUT, DUCTWORK, ETC. TO MATCH CEILINGS, U.N.O.
4. FABRIC DUCTWORK IS NOT FIELD PAINTED AND IS TO BE PROTECTED DURING PAINTING.
5. PAINT AT LOCKER ROOMS AND RESTROOMS TO BE EPOXY PAINT. PAINT CEILINGS AND SOFFITS PT-1 SEMIGLOSS. PAINT WALLS PER FINISH PLAN.
6. ONLY EXPOSED CONTROL AND ISOLATION JOINTS ARE SHOWN ON THIS PLAN; SEE STRUCTURAL FOR ADDITIONAL ISOLATION, CONSTRUCTION, AND CONTRACT JOINT INFORMATION.
7. FIRE TREATED PLYWOOD UP TO 8'-0" AT ALL WALLS OF ELEC. ROOM, U.N.O.

FINISH GRAPHIC LEGEND

- WOM 1 - WALK-OFF-MAT 1
- CONC 1 - BROOM FINISH CONC
- RSL 1 - RESILIENT FLOORING
- LVT 1 - LAMINATE VINYL FLOORING 1
- CPT 1 - CARPET 1
- CPT 2 - CARPET 2
- POOL EDGE TILE

NOTES - ABBREVIATIONS

PT	EXTENT OF ACCENT PAINT
CG	CORNER GUARD
CJ	CONTROL JOINT, SEE GENERAL NOTES
FF	FACTORY FINISH
PT	FIELD APPLIED PAINT
HPC	HIGH PERFORMANCE COATING FIELD APPLIED
SSTL	STAINLESS STEEL
OTS	OPEN TO STRUCTURE
SWS	SUSPENDED WOOD SLAT CEILING
ST	STAIN

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FINISH FLOOR PLAN

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ROOM FINISHES SCHEDULE

NUMBER	NAME	FINISH							COMMENTS
		FLOOR	BASE	N WALL	E WALL	S WALL	W WALL	CEILING	
100	VEST	WOM-1	RB-1	SF / GWB	GWB	GWB	GWB	GWB	
101	INDOOR FOREST	CONC-1	RB-1	SF / GWB	SF	WD-1 / GWB	SF	OTS	
102	LOBBY	LVT-1	RB-1	GWB	WD-1 / GWB	GWB	WD-1 / GWB	OTS	
103	MTG. ROOM	CPT-2	RB-1	GWB	GWB	GWB	GWB	OTS	
104	PARKS ADMIN	CPT-1	RB-1	SF / GWB	GWB	SF / GWB	GWB	ACT	
105	PARKS DIR.	CPT-1	RB-1	SF / GWB	GWB	GWB	GWB	ACT	
106	PARKS BUS.	CPT-1	RB-1	SF / GWB	GWB	GWB	GWB	ACT	
107	EAST HALL	LVT-1	RB-1	GWB	SF / GWB	SF / GWB	SF / GWB	OTS	
108	FITNESS	RSL-1	RB-1 / CONC-1	GWB / MIRROR	SF / GWB	GWB	SF / GWB	OTS / PT-2	SEE INTERIOR ELEV. FOR PAINTED GRAPHIC
109	WC	CONC-1	RB-1	TILE	TILE	TILE	TILE	GWB	
110	FIT. STOR.	RSL-1	RB-1	GWB	GWB	GWB	GWB	GWB	
111	MULTI. ROOM 1	CONC-1	RB-1 / CONC-1	GWB	SF / GWB	GWB	SF / GWB	OTS	SEE INTERIOR ELEV. FOR PAINTED GRAPHIC
111A	MULTI. STOR.	RSL-1	RB-1 / CONC-1	GWB	GWB	GWB	GWB	GWB	
112	MULTI. ROOM 2	CONC-1	RB-1 / CONC-1	GWB	SF / GWB	GWB	SF / GWB	OTS	SEE INTERIOR ELEV. FOR PAINTED GRAPHIC
113	MECH	CONC-1	CONC-1	GWB	GWB	GWB	GWB	OTS	
114	AQ DIR	CPT-1	RB-1 / CONC-1	GWB	GWB	GWB	GWB	ACT	
116	M LOCKER RM	CONC-1	CONC-1	TILE / GWB	TILE / GWB	TILE / GWB	TILE / GWB	GWB	
117	UNIV. CHANGING	CONC-1	CONC-1	SF / GWB	GWB	GWB	GWB	GWB	
117A	JAN	CONC-1	CONC-1	GWB	GWB	GWB	GWB	GWB	
117B	MAINT.	CONC-1	CONC-1	GWB	GWB	GWB	GWB	GWB	
118	W LOCKER RM	CONC-1	CONC-1	TILE / GWB	GWB	TILE / GWB	TILE / GWB	GWB	
119	R.R. 1	CONC-1	CONC-1	TILE	TILE	TILE	GWB	GWB	
120	R.R. 2	CONC-1	CONC-1	TILE	TILE	TILE	GWB	GWB	
121	R.R. 3	CONC-1	CONC-1	TILE	TILE	TILE	GWB	GWB	
122	LIFEGUARDS	CONC-1	RB-1 / CONC-1	GWB	GWB	SF / GWB	GWB	ACT	
123	IDF	CONC-1	CONC-1	GWB	GWB	GWB	GWB	OTS	
124	NATATORIUM DECK	CONC-1	CONC-1	TILE / GWB	TILE / GWB	TILE / GWB	TILE / GWB	OTS	
125	SAUNA	CONC-1	CONC-1					OTS	
126	PUMP ROOM	CONC-1	CONC-1	GWB	GWB	GWB	GWB	OTS	
127	AQ STORAGE	CONC-1	CONC-1	GWB	GWB	GWB	GWB	OTS	
128	ELEC	CONC-1	CONC-1	GWB	GWB	GWB	GWB	GWB	
129	RISER	CONC-1	CONC-1	GWB	GWB	GWB	GWB	GWB	
130	CHEM 1	CONC-1	CONC-1	GWB	GWB	GWB	GWB	GWB	
131	CHEM 2	CONC-1	CONC-1	GWB	GWB	GWB	GWB	GWB	
132	PROGRAM STOR	CONC-1	CONC-1	GWB	GWB	GWB	GWB	OTS	

*GENERAL NOTE: REFER TO INTERIOR ELEVATIONS AND FINISH FLOOR PLAN FOR PAINT LOCATIONS

INTERIOR COLOR SCHEDULE

BUILDING COMPONENT	FINISH	COLOR	SHEEN	NOTES
EXPOSED CROSS LALAMINATED TIMBER DECKING	STAIN / FF	ST-1	SATIN	FACTORY APPLIED CLEAR COAT TO PROTECT PANELS...
PIPING ON CLT DECKING	PT	PT-1	SATIN	CONDUIT TO BE ABOVE DECK
OPEN WEB STEEL JOISTS	HPC	PT-1	SEMI-GLOSS	
EXPOSED METAL DECKING	HPC	PT-1	SATIN	
FABRIC DUCTS AT NATATORIUM	FF	AS SELECTED BY ARCHITECT	SATIN	
ACOUSTIC BATTEN LINEAR CEILING	FF	AS SELECTED BY ARCHITECT	N/A	SELECTED FROM MANUFACTURER'S STANDARD LINE
FIBERGLASS FRAMES	FF	AS SELECTED BY ARCHITECT	N/A	SELECTED FROM MANUFACTURER'S STANDARD LINE
FIBERGLASS DOORS	FF	AS SELECTED BY ARCHITECT	N/A	SELECTED FROM MANUFACTURER'S STANDARD LINE
STEEL COLUMNS AND BEAMS AT NATATORIUM	HPC	PT-1	SEMI-GLOSS	
STEEL COLUMNS AND BEAMS AT NON-NATATORIUM	PT	PT-1	SEMI-GLOSS	
EXPOSED CONC. WALLS/CURBS/BENCHES	SEAL	SLR-1	SATIN	
BROOM AND TROWELLED CONCRETE FLOORS	SEAL	SLR-1	SATIN	
STOREFRONT SYSTEM	FF	PER SPEC	N/A	SELECTED FROM MANUFACTURER'S STANDARD LINE
LAY-IN ACOUSTIC CEILING	FF	AS SELECTED BY ARCHITECT	N/A	SELECTED FROM MANUFACTURER'S STANDARD LINE
MECH GRILLES AT WALLS	PT	PAINT TO MATCH WALL	SEMI GLOSS	
GRAB BARS	FF	STAINLESS	N/A	SELECTED FROM MANUFACTURER'S STANDARD LINE
GUARDRAIL AT POOL MECH	FF	PER AQUATIC DRAWINGS	N/A	
GYPSUM WALL BOARD, TYP U.N.O	PT	PT-1	SATIN	
GYPSUM WALL BOARD, ACCENT WALLS	PT	PT-VARIES	SATIN	SEE FINISH FLOOR PLANS FOR ACCENT WALL LOCATIONS
MOLD-RESISTANT GYPSUM WALL BOARD, TYP U.N.O	HPC	PT-1	SEMI-GLOSS	
MOLD-RESISTANT GWB ACCENT WALLS	HPC	PT-VARIES	SEMI-GLOSS	SEE FINISH FLOOR PLANS FOR ACCENT WALL LOCATIONS
GYPSUM WALL BOARD CEILINGS, U.N.O	PT	PT-1	SATIN	

GENERAL NOTE: UNLESS NOTED HERE; COLOR AND SHEEN ARE TYPICALLY DEFINED IN THE SPECIFICATIONS.

EXTERIOR COLOR SCHEDULE

BUILDING COMPONENT	FINISH	COLOR	SHEEN	NOTES
EXPOSED CROSS LALAMINATED TIMBER DECKING	STAIN / FF	ST-1	SATIN	FACTORY APPLIED CLEAR COAT TO PROTECT PANELS PRIOR TO INSTALL
PRE-MANUFACTURED FASCIA	FF	PER SPEC (WHITE)	N/A	
DOWNSPOUTS ON SIDING	HPC	MATCH SIDING COLOR	SEMI-GLOSS	
DOWNSPOUTS ON CURTAIN WALL	HPC	MATCH CURTAINWALL COLOR	SEMI-GLOSS	
PARAPET CAPS	FF	MATCH SIDING COLOR	SATIN	
HOLLOW METAL FRAMES	HPC	MATCH SIDING COLOR	SEMI-GLOSS	
HOLLOW METAL DOORS	HPC	MATCH SIDING COLOR	SEMI GLOSS	
FIBERGLASS FRAMES	FF	TO BE SELECTED BY ARCHITECT	N/A	SELECTED FROM MFR STANDARD COLORS
FIBERGLASS DOORS	FF	TO BE SELECTED BY ARCHITECT	N/A	SELECTED FROM MFR STANDARD COLORS
SHEET METAL FLASHING @ FG FRAMES	FF	MATCH SIDING COLOR	N/A	BY SIDING MFR
STEEL COLUMNS AND BEAMS	HPC	PT-1	SEMI-GLOSS	
MISCELANEOUS STEEL	HPC	PT-1	SEMI-GLOSS	
EXPOSED CONC. STEM WALLS	HPC	SLR-1	SATIN	ANTI GRAFFITI AND SEALER (CLEAR)
CURTAIN WALL SYSTEM	FF	PER SPEC (WHITE)	N/A	SELECTED FROM MFR STANDARD COLORS
ALUMINUM FLASHING @ CURTAIN WALL	FF	MATCH CURTAIN WALL FINISH (WHITE)	N/A	BY CURTAIN WALL MFR
SUNSHADE ALUMINUM TUBE	FF	PER SPEC (WHITE)	N/A	SELECTED FROM MFR STANDARD COLORS
STOREFRONT SYSTEM	FF	PER SPEC (WHITE)	N/A	SELECTED FROM MFR STANDARD COLORS
ALUMINUM FLASHING @ STOREFRONT	FF	MATCH STOREFRONT FINISH (WHITE)	N/A	BY STOREFRONT MFR
DOOR OPERATOR POST	FF	TO BE SELECTED BY ARCHITECT	N/A	SELECTED FROM MFR STANDARD COLORS
MECHANICAL LOUVERS	FF	MATCH SIDING	N/A	SELECTED FROM MFR STANDARD COLORS

GENERAL NOTE: UNLESS NOTED HERE; COLOR AND SHEEN ARE TYPICALLY DEFINED IN THE SPECIFICATIONS.

FINISH PLAN NOTES:

1. PAINT AT GWB WALLS TO BE PT-1, SATIN FINISH, U.N.O.
2. PAINT AT INTERIOR EXPOSED METAL DECK CEILINGS TO BE PT-1, U.N.O.
3. PAINT ALL EXPOSED CONDUITS, UNISTRUT, DUCTWORK, ETC. TO MATCH CEILINGS, U.N.O.
4. FABRIC DUCTWORK IS NOT FIELD PAINTED AND IS TO BE PROTECTED DURING PAINTING.
5. PAINT AT LOCKER ROOMS AND RESTROOMS TO BE EPOXY PAINT. PAINT CEILINGS AND SOFFITS PT-1 SEMIGLOSS. PAINT WALLS PER FINISH PLAN.
6. ONLY EXPOSED CONTROL AND ISOLATION JOINTS ARE SHOWN ON THIS PLAN; SEE STRUCTURAL FOR ADDITIONAL ISOLATION, CONSTRUCTION, AND CONTRACT JOINT INFORMATION.
7. FIRE TREATED PLYWOOD UP TO 8'-0" AT ALL WALLS OF ELEC. ROOM, U.N.O.

FINISH GRAPHIC LEGEND

- WOM 1 - WALK-OFF-MAT 1
- CONC 1 - BROOM FINISH CONC
- RSL 1 - RESILIENT FLOORING
- LVT 1 - LAMINATE VINYL FLOORING 1
- CPT 1 - CARPET 1
- CPT 2 - CARPET 2
- POOL EDGE TILE

NOTES - ABBREVIATIONS

PT	EXTENT OF ACCENT PAINT
CG	CORNER GUARD
CJ	CONTROL JOINT, SEE GENERAL NOTES
FF	FACTORY FINISH
PT	FIELD APPLIED PAINT
HPC	HIGH PERFORMANCE COATING FIELD APPLIED
SSTL	STAINLESS STEEL
OTS	OPEN TO STRUCTURE
SWS	SUSPENDED WOOD SLAT CEILING
ST	STAIN

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REVISION SCHEDULE		
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CONTENTS:

FINISH SCHEDULES

SCALE: As indicated
DRAWN: LP / ES / AP
CHECKED: PC / EW
PROJECT NO: 2022021.000

SHEET:

A10.2

PLAN NOTES:

1. REFER TO T1.0 FOR GENERAL NOTES
2. SEE CIVIL & LANDSCAPE DRAWINGS FOR SITE CONDITIONS BEYOND THE BUILDING PERIMETER
3. SEE BUILDING SECTIONS FOR WALL, FLOOR, AND ROOF ASSEMBLIES U.O.N
4. SEE BUILDING ELEVATIONS FOR EXTERIOR MATERIALS & DETAILING
5. SEE ROOF PLAN FOR ROOF MATERIALS AND DETAILING
6. REFER TO SCHEDULE SHEETS FOR ADDITIONAL INFORMATION INCLUDING PARTITION AND DOOR SCHEDULES
7. ROOMS W/ CAPACITY GREATER THAN 50 OCCUPANTS SHALL HAVE CLEARLY VISIBLE SIGNAGE INDICATING OCCUPANT CAPACITY FOR THAT ROOM
8. ALL ELEVATIONS NOTED ON THE ARCHITECTURAL SHEETS ARE BASED OFF OF A TOP OF SLAB VERTICAL DATUM WHERE THE TOP OF SLAB IS 0' - 0" (205' - 0" PER REAL WORLD ELEVATION, SEE SURVEY AND CIVIL)
9. PARITION TYPE TO BE (B2) U.O.N.
10. ADDITIONAL PARTITION TAGS AND WALL DIMENSIONING FOUND IN ENLARGED FLOOR PLANS
11. ALL FURNITURE TO BE F.O.I.O
12. SEE DOOR SCHEDULE SHEET FOR TYPICAL DOOR LOCATIONS WHEN ADJACENT TO PERPENDICULAR WALL
13. ALL SOFFIT WALLS TO BE TYPE (A1) U.O.N. REFER TO RCP SHEET A6.1
14. REFER TO A9.5 & A9.6 FOR SIGNAGE DETAILS

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3. SEE BUILDING SECTIONS FOR EXTERIOR WALL, FLOOR, AND ROOF ASSEMBLIES
4. REFER TO ROOF PLANS FOR ROOF DETAIL CALLOUTS AND DESCRIPTIONS
5. DRAWINGS INDICATE GENERAL & TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER, TYPICAL DETAILS SHALL APPLY.
6. SEE A10.1 FOR FINISHES APPLIED TO EXT BUILDING COMPONENTS SCHEDULE.

CEILING PLAN NOTES:

1. REFER TO T1.0 FOR GENERAL NOTES.
2. ALL GWB CEILINGS AND SOFFITS ARE SUSPENDED ON CEILING JOISTS OF DESIGN-BUILD COLD FORMED METAL FRAMING. REFER TO SPECIFICATION SECTION 05 40 00 "COLD FORMED METAL FRAMING" AND STRUCTURAL NOTES.
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4. MECHANICAL EQUIPMENT SHOWN FOR COORDINATION ONLY. NOTIFY ARCHITECT OF ANY CONFLICTS OF TRADES BEFORE PROCEEDING.
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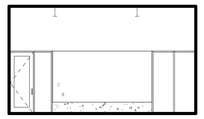
10. ACT CEILINGS TO BE BALAENCED WITHIN EACH ROOM, TYP.



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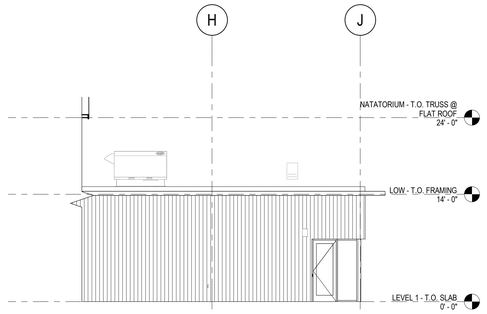
1/8" = 1'-0"



5 SOUTH ELEVATION - ALTERNATE 1
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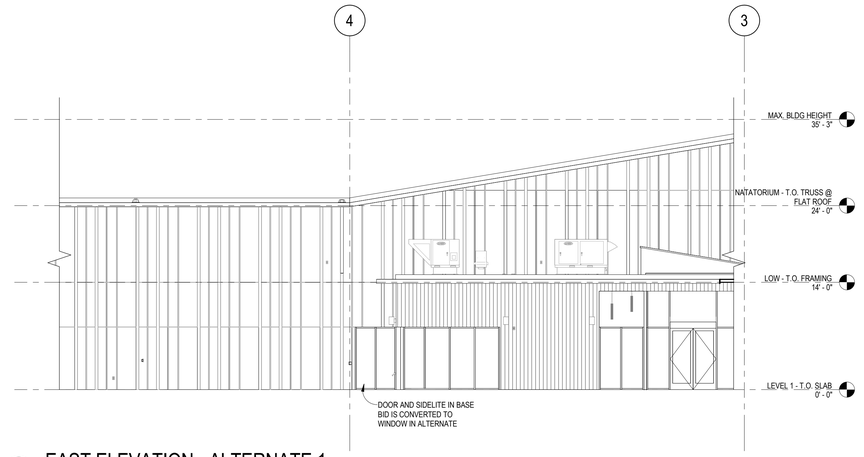

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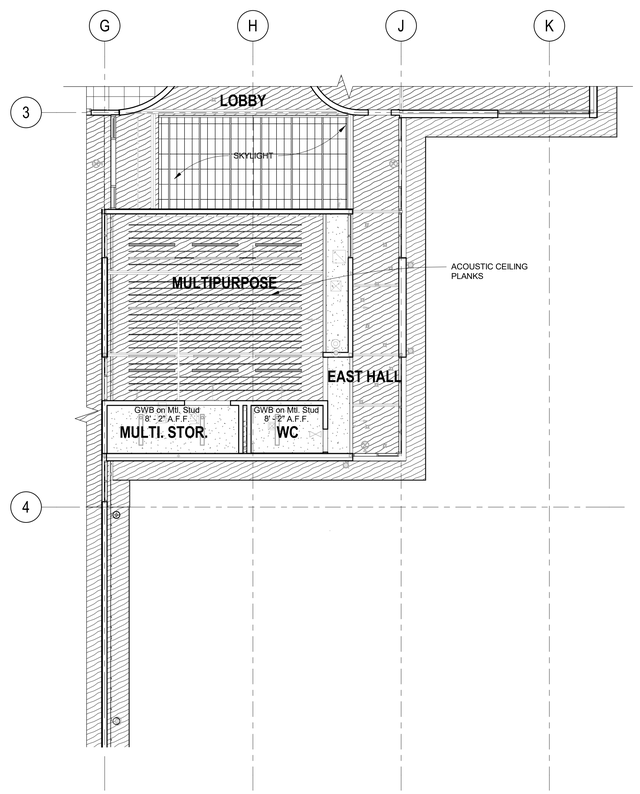
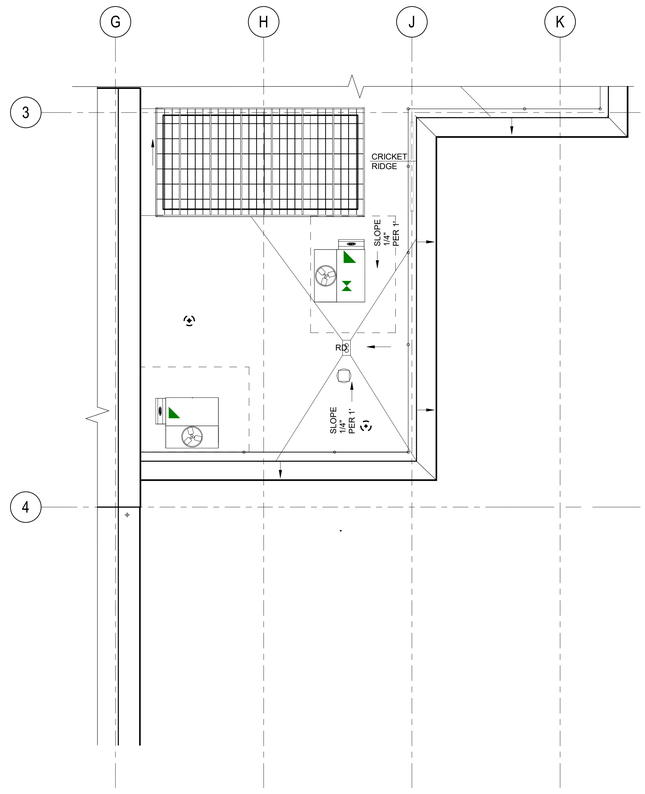


3 RCP - T.O. SLAB - ALTERNATE 1
1/8" = 1'-0"



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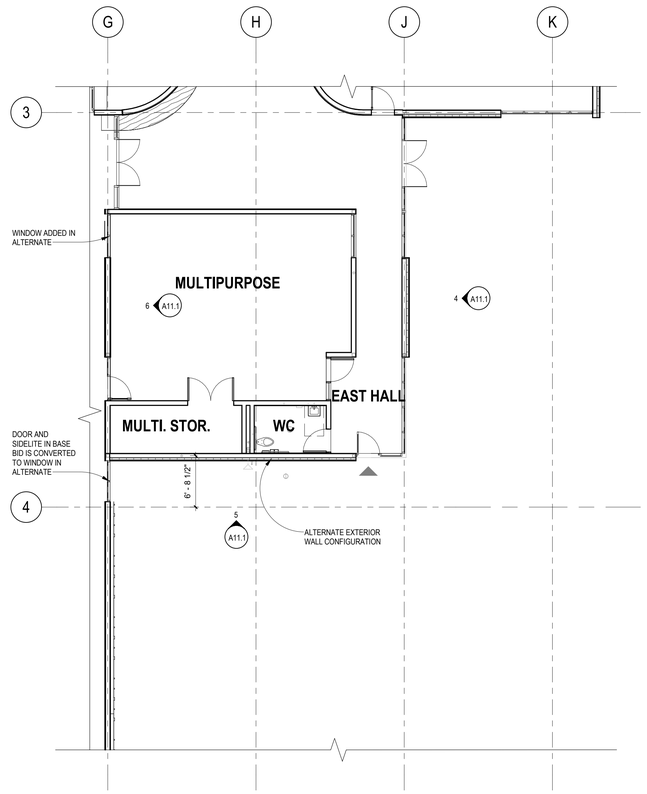
1/8" = 1'-0"



11 LEVEL 1 - T.O. SLAB - ALTERNATE 1
1/8" = 1'-0"

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Rev #	Date	Description

CONTENTS:

DEDUCTIVE ALTERNATE 1

SCALE: As indicated
DRAWN: LP / ES / AP
CHECKED: PC / EW
PROJECT NO: 2022021.000

SHEET:

A11.1

PLAN NOTES:

1. REFER TO T1.0 FOR GENERAL NOTES
2. SEE CIVIL & LANDSCAPE DRAWINGS FOR SITE CONDITIONS BEYOND THE BUILDING PERIMETER
3. SEE BUILDING SECTIONS FOR WALL, FLOOR, AND ROOF ASSEMBLIES U.O.N
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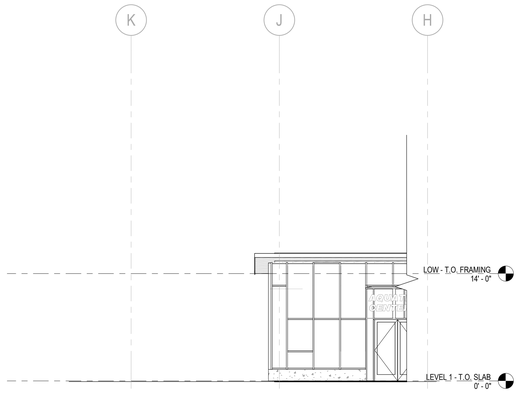

5 NORTH ELEVATION - ALTERNATE 2
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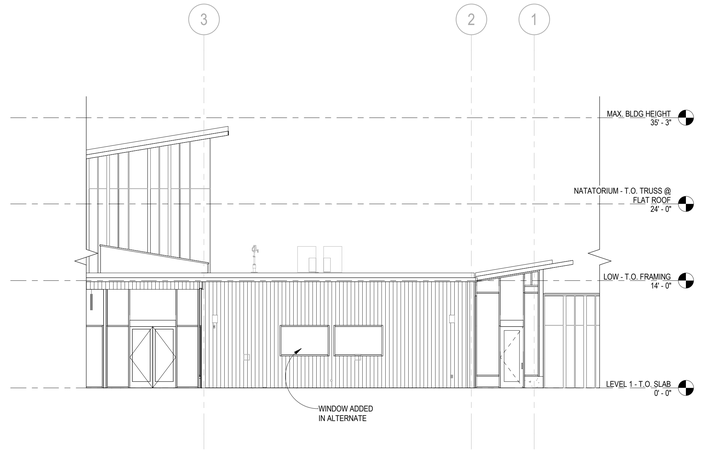

4 EAST ELEVATION - ALTERNATE 2
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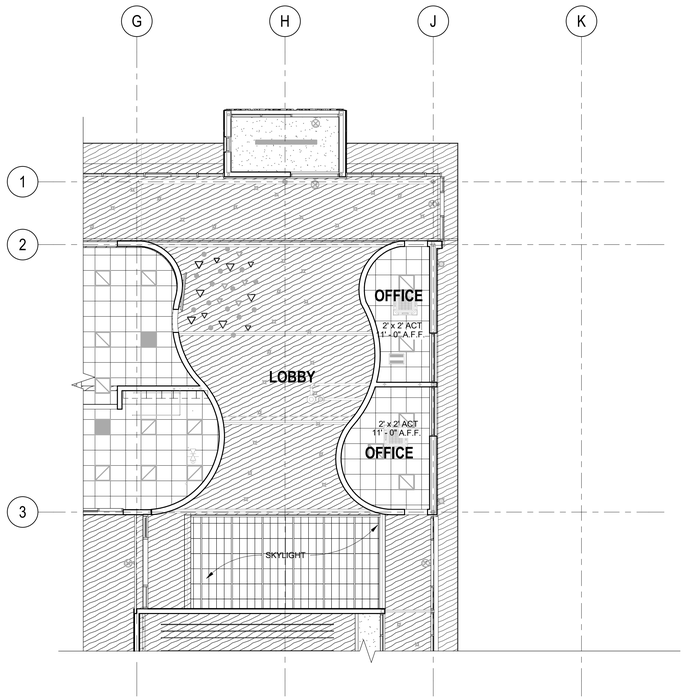
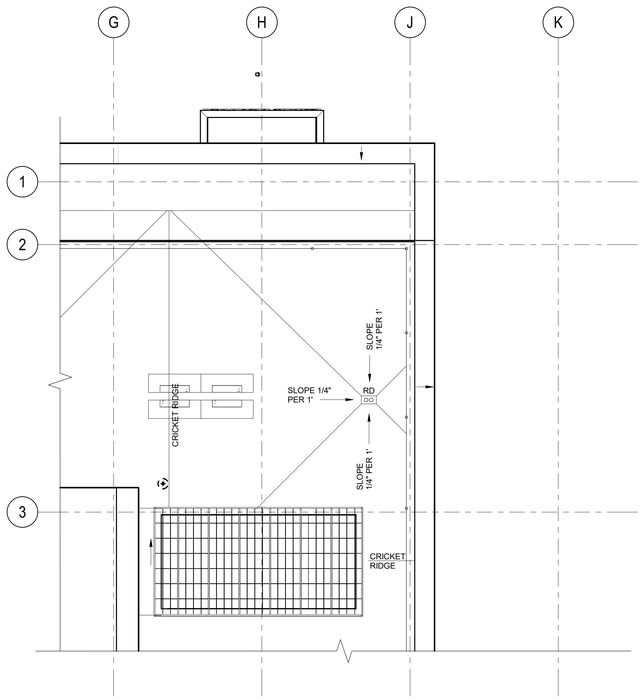
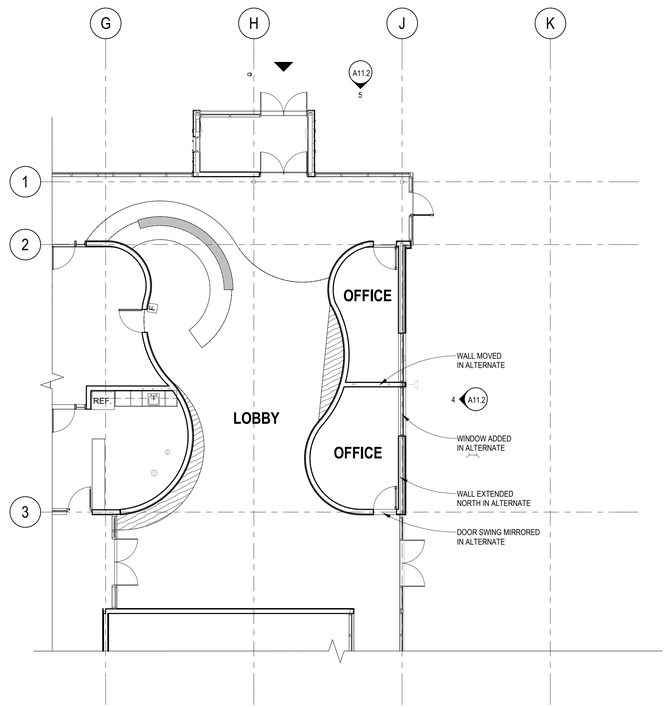


3 RCP - T.O. SLAB - ALTERNATE 2
1/8" = 1'-0"



2 ROOF PLAN - ALTERNATE 2
1/8" = 1'-0"



1 LEVEL 1 - T.O. SLAB - ALTERNATE 2
1/8" = 1'-0"

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DEDUCTIVE ALTERNATE 2

SCALE: As indicated
DRAWN: Author
CHECKED: Checker
PROJECT NO: 2022021.000

SHEET:
A11.2

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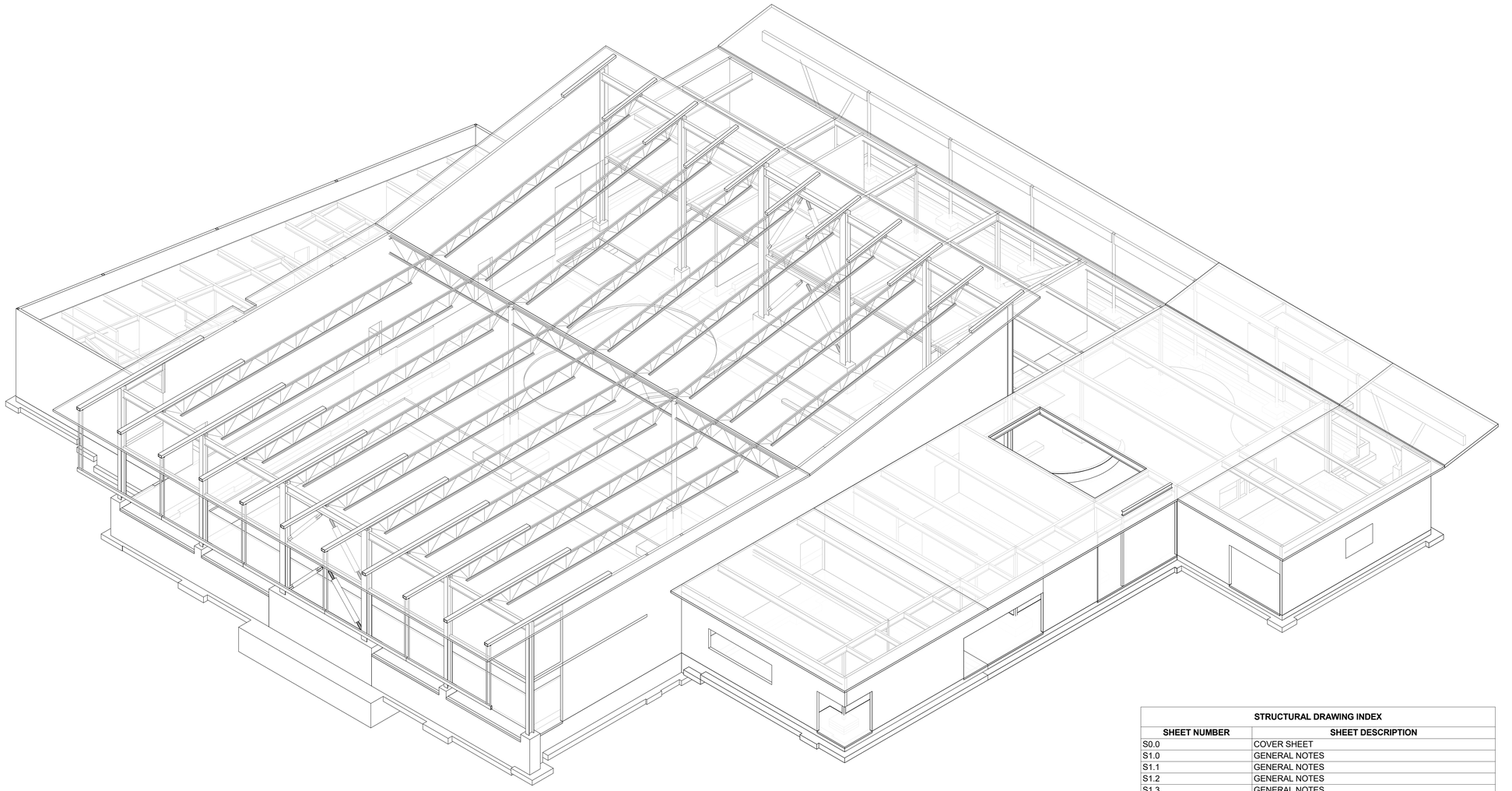

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S1.1	GENERAL NOTES
S1.2	GENERAL NOTES
S1.3	GENERAL NOTES
S1.5	WIND PRESSURE ROOF ZONES
S2.0	FOUNDATION PLAN
S2.1	LEVEL 1 FRAMING PLAN
S2.3	LOW ROOF FRAMING PLAN
S2.4	HIGH ROOF FRAMING PLAN
S3.0	TYPICAL CONCRETE SLAB-ON-GRADE DETAILS
S3.1	TYPICAL FOUNDATION DETAILS
S3.2	FOUNDATION DETAILS
S3.3	FOUNDATION DETAILS
S4.0	TYPICAL TIMBER DETAILS
S4.1	TYPICAL TIMBER DETAILS
S5.0	TYPICAL STEEL FRAMING DETAILS
S5.1	TYPICAL STEEL FRAMING DETAILS
S5.2	STEEL FRAMING DETAILS
S5.3	STEEL FRAMING DETAILS
S5.4	STEEL FRAMING DETAILS
S5.5	BRACED FRAME ELEVATIONS
S5.6	STEEL BRACED FRAME DETAILS
S5.7	STEEL BRACED FRAME DETAILS
S7.0	TYPICAL COLD-FORMED STEEL FRAMING DETAILS
S7.1	TYPICAL COLD-FORMED STEEL FRAMING DETAILS
S7.2	TYPICAL COLD-FORMED STEEL FRAMING DETAILS
S7.3	TYPICAL COLD-FORMED STEEL FRAMING DETAILS
S11.1	DEDUCTIVE ALTERNATE 1
S11.2	DEDUCTIVE ALTERNATE 2
Grand total: 30	

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COVER SHEET

SCALE:
DRAWN: DEH
CHECKED: CAJ
PROJECT NO: 2022021.000

SHEET:

S0.0

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GENERAL NOTES

THESE GENERAL NOTES ARE TO BE USED AS A SUPPLEMENT TO THE SPECIFICATIONS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATIONS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE SPECIFIED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY; ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER SEI/ASCE STANDARD NO. 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION."

CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

STANDARDS
ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

CONTRACT DRAWINGS / DIMENSIONS

ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. CONSULTANT DRAWINGS BY OTHER DISCIPLINES ARE SUPPLEMENTARY TO ARCHITECTURAL DRAWINGS. REPORT DIMENSIONAL OMISSIONS OR DISCREPANCIES BETWEEN ARCHITECTURAL DRAWINGS AND STRUCTURAL, MECHANICAL, ELECTRICAL OR CIVIL DRAWINGS TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK. SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED, SUCH AS WALL CONFIGURATIONS, INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, ETC. VERTICAL DIMENSIONAL CONTROL IS DEFINED BY ARCHITECTURAL WALL SECTIONS AND BUILDING SECTIONS. STRUCTURAL DETAILS SHOW DIMENSIONAL RELATIONSHIPS TO CONTROL DIMENSIONS DEFINED BY ARCHITECTURAL DRAWINGS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN **BOTH** ARCHITECTURAL AND STRUCTURAL DRAWINGS.

DESIGN CRITERIA

VERTICAL LOADS

AREA	DESIGN DEAD LOAD	LIVE LOAD (2)	CONCENTRATED LOADS
ROOF - METAL DECK	10 PSF	25 PSF (1)	300#
ROOF - 3-PLY CLT	20 PSF	25 PSF (1)	300#
ROOF - 5-PLY CLT	35 PSF	25 PSF (1)	300#
ROOF - 3-PLY CLT W/ SOLAR	25 PSF	25 PSF (1)	300#

(1) DRIFT AND UNBALANCED SNOW LOAD PER ASCE 7-16, CHAPTER 7.
(2) LIVE LOADS EXCEPT SNOW LOADS ARE REDUCED PER IBC SECTION 1607.11.

SNOW: (MINIMUM ROOF SNOW LOAD = 25 PSF)

Pg = 15 PSF = GROUND SNOW LOAD
Pf = 0.7CeCtIsPg = FLAT ROOF SNOW LOAD
Ps = CsPf = SLOPED ROOF SNOW LOAD
Is = 1.1 Ce = 1.0, Ct = 1.1, Cs = VARIES

LATERAL FORCES

LATERAL FORCES ARE TRANSMITTED BY DIAPHRAGM ACTION OF ROOF AND FLOORS TO BRACED FRAME OR SHEAR WALLS. LOADS ARE THEN TRANSFERRED TO FOUNDATION BY BRACED FRAME/SHEAR WALL ACTION WHERE ULTIMATE DISPLACEMENT IS RESISTED BY PASSIVE PRESSURE OF EARTH AND/OR SLIDING FRICTION. OVERTURNING IS RESISTED BY DEAD LOAD OF THE STRUCTURE.

LATERAL FORCE RESISTING SYSTEM: ALL MEMBERS AND CONNECTIONS REFERRED TO AS LATERAL FORCE RESISTING SYSTEM (LFRS) SHALL COMPLY WITH REQUIREMENTS OF THE SEISMIC FORCE RESISTING SYSTEM AND THE WIND FORCE RESISTING SYSTEM SET FORTH IN THE SPECIAL INSPECTION REQUIREMENTS OF IBC SECTION 1704 AND 1705, AND AS NOTED IN THE STATEMENT OF SPECIAL INSPECTIONS.

WIND:

THE BUILDING MEETS THE CRITERIA TO USE THE "ENCLOSED, PARTIALLY ENCLOSED, AND OPEN BUILDING OF ALL HEIGHTS PROCEDURE" PER ASCE 7-16.

- EXPOSURE CATEGORY = C
- BASIC WIND SPEED, (3 SEC. GUST), V_{ULT} = 105 MPH; V_{ASD} = 82 MPH
- RISK CATEGORY PER IBC TABLE 1604.5 = III
- TOPOGRAPHIC FACTOR K_{zt} = 1.00
- GROUND ELEVATION FACTOR, Ke = 0.99
- INTERNAL PRESSURE COEFFICIENT (ENCLOSED) = ± 0.18
- FOR WIND UPLIFT MAP SEE SHEET
- COMPONENTS AND CLADDING LOADS, SEE THE FOLLOWING TABLES:

ROOF SURFACES [1]							
EFFECTIVE WIND AREA	POSITIVE PRESSURES (PSF)	NEGATIVE PRESSURES (PSF)					
		ZONE [3]					
	ALL ZONES	1	2	3	N/A	N/A	N/A
10 SF	16.0	-36.7	-44.1	-76.3	N/A	N/A	N/A
20 SF	16.0	-34.7	-41.6	-68.9	N/A	N/A	N/A
50 SF	16.0	-33.7	-36.2	-60.4	N/A	N/A	N/A
100 SF	16.0	-31.7	-34.2	-54.0	N/A	N/A	N/A

WALL SURFACES [1]				
EFFECTIVE WIND AREA	POSITIVE PRESSURE (PSF)		NEGATIVE PRESSURE (PSF)	
	ZONE [2]			
	4	5	4	5
10 SF	29.2	29.2	-31.7	-39.1
20 SF	27.9	27.9	-30.4	-36.5
50 SF	26.2	26.2	-28.6	-33.0
100 SF	24.9	24.9	-27.3	-30.4
500 SF	21.8	21.8	-24.3	-24.3

ROOF OVERHANGS [1]						
EFFECTIVE WIND AREA	NEGATIVE PRESSURE (PSF)					
	ZONE [3]					
	1	2	3	N/A	N/A	N/A
10 SF	-57.0	-64.4	-96.6	N/A	N/A	N/A
20 SF	-53.7	-60.6	-87.9	N/A	N/A	N/A
50 SF	-50.9	-53.4	-77.7	N/A	N/A	N/A
100 SF	-47.6	-50.1	-69.9	N/A	N/A	N/A
500 SF	-44.6	-47.1	-66.9	N/A	N/A	N/A

1. VALUES SHOWN IN TABLE ARE GROSS ULTIMATE WIND PRESSURES.
2. WALL ZONES ARE AS DEFINED BY FIGURE 30.3-1 IN ASCE 7-16 FOR LOW RISE BUILDINGS.
3. ROOF ZONES ARE AS DEFINED BY FIGURES 30.3-2 THROUGH 30.3-7 IN ASCE 7-16 FOR LOW RISE BUILDINGS.

SEISMIC: (ASCE 7-16) V = CsW

WHERE $C_s = \frac{S_{DS}}{\left(\frac{R}{I_e}\right)}$; WITH

C_s MINIMUM = $0.044\, S_{DS} I_E \geq 0.01$
OR
C_s MINIMUM = $\frac{0.5 S_1}{\frac{R}{I_e}}$ FOR $S_1 > 0.6g$

C_s MAXIMUM = $\frac{S_{D1}}{T\left(\frac{R}{I_e}\right)}$ FOR $T \leq T_L$
OR
C_s MAXIMUM = $\frac{S_{D1} T_L}{T^2\left(\frac{R}{I_e}\right)}$ FOR $T > T_L$

SEISMIC IMPORTANCE FACTOR, Ie = 1.25
RISK CATEGORY OF BUILDING PER IBC TABLE 1604.5 = III
SPECTRAL RESPONSE ACCELERATIONS S_S = 1.423 & S_1 = 0.510
SITE CLASS PER TABLE 20.3-1 = C
DESIGN SPECTRAL RESPONSE ACCELERATIONS S_{DS} = 1.138 & S_{D1} = 0.507
SEISMIC DESIGN CATEGORY = D
W = EFFECTIVE SEISMIC WEIGHT OF BUILDING = 1250 KIP
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE
SEISMIC FORCE-RESISTING SYSTEM PER TABLE 12.2-1:
STEEL SPECIAL CONCENTRICALLY BRACED FRAMES IN EAST-WEST DIRECTION
BUILDING FRAMED COLD FORM STEEL WALLS WITH METAL SHEET SHEATHING IN NORTH-SOUTH DIRECTION
RESPONSE MODIFICATION FACTOR, R = 8 (EAST-WEST), 7 (NORTH-SOUTH)
OVERSTRENGTH FACTOR, Ω = 2 (EAST-WEST), 2.5 (NORTH-SOUTH)
DEFLECTION AMPLIFICATION FACTOR, Cd = 5 (EAST-WEST), 4.5 (NORTH-SOUTH)
Cs = 0.178 (EAST-WEST), 0.203 (NORTH-SOUTH)
DESIGN BASE SHEAR V = 225 KIP (EAST-WEST), 255 KIP (NORTH-SOUTH)
REDUNDANCY FACTOR PER 12.3.4, ρ = 1.3 (BOTH DIRECTIONS)

PIPES, DUCTS AND MECHANICAL EQUIPMENT SUPPORTED OR BRACED FROM STRUCTURE. CONFORM TO SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC. PUBLICATION "SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS". SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA PAMPHLET 13.

FOUNDATION DESIGN CRITERIA (REFER TO GEOTECHNICAL REPORT BY PALMER GEOTECHNICAL CONSULTANTS, INC. DATED 11/26/2023)

ALLOWABLE SOIL BEARING PRESSURE: 2500 PSF*

ACTIVE PRESSURE - RESTRAINED: 56 PCF +14H SEISMIC SURCHARGE
ACTIVE PRESSURE - UNRESTRAINED: 37 PCF +9H SEISMIC SURCHARGE
PASSIVE RESISTANCE: 195 PCF (INCLUDES F.O.S. ≥ 2.0)
COEFFICIENT OF FRICTION: 0.35 (INCLUDES F.O.S. ≥ 1.5)
*1/3 INCREASE ALLOWED FOR SEISMIC OR WIND LOADING
STATIC DIFFERENTIAL SETTLEMENT: 1/2" MAX OVER 50 FEET PER GEO-TECHNICAL REPORT.

ALL FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH OR "STRUCTURAL BACKFILL". NATIVE EARTH BEARING SHALL BE SURFACE COMPACTED. AREAS OVER-EXCAVATED SHALL BE BACKFILLED WITH LEAN CONCRETE (f'c= 2000 PSI) OR "STRUCTURAL BACKFILL". AREAS DESIGNATED "STRUCTURAL BACKFILL" SHALL BE FILLED WITH APPROVED WELL-GRADED BANKRUN MATERIAL. MAXIMUM SIZE OF ROCK 3". FROZEN SOIL, ORGANIC MATERIAL AND DELETERIOUS MATTER NOT ALLOWED. PLACE IN 8" MAXIMUM LIFTS, COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557. CONTRACTOR SHALL EXERCISE EXTREME CARE DURING EXCAVATION TO AVOID DAMAGE TO BURIED LINES, TANKS, AND OTHER CONCEALED ITEMS. UPON DISCOVERY, DO NOT PROCEED WITH WORK UNTIL RECEIVING WRITTEN INSTRUCTIONS FROM ARCHITECT. A COMPETENT REPRESENTATIVE OF THE OWNER SHALL INSPECT ALL FOOTING EXCAVATIONS FOR SUITABILITY OF BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL. PROVIDE DRAINAGE AND DEWATERING AROUND ALL WORK TO AVOID WATER-SOFTENED FOOTINGS.

FREE DRAINING BACKFILL MATERIAL FOR RETAINING & BASEMENT WALLS

A CLEAN, FREE DRAINING, WELL GRADED GRANULAR MATERIAL CONFORMING TO ASTM D2487 GW OR SW WHOSE MAXIMUM PARTICLE SIZE DOES NOT EXCEED 3/4" AND WHOSE FINES CONTENT (MATERIAL PASSING THE NO. 200 SIEVE) DOES NOT EXCEED 5%,

WITH A MAXIMUM DUST RATIO $\frac{\%\text{ PASSING U.S. NO. 200 SIEVE}}{\%\text{ PASSING U.S. NO. 40 SIEVE}}$ = 2/3 MAX.

CONCRETE

CAST-IN-PLACE CONCRETE

CODES, SPECIFICATIONS, AND STANDARDS. CONCRETE WORK SHALL CONFORM TO THE FOLLOWING CODES, SPECIFICATIONS, AND STANDARDS, AND THE STANDARDS AND SPECIFICATIONS THEY REFERENCE. THE CONTRACTOR SHALL OBTAIN AND HAVE READILY AVAILABLE ON SITE THE LATEST VERSION OF THE "ACI MANUAL OF CONCRETE PRACTICE":

ACI:
1. ACI-117 'SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION, MATERIALS AND COMMENTARY'.
2. ACI-301 'STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE'.
3. ACI-302.1 'GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION'.
4. ACI-304 'GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE'.
5. ACI-305.1 'SPECIFICATIONS FOR HOT WEATHER CONCRETING'.
6. ACI-306.1 'STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING'.
7. ACI-308.1 'STANDARD SPECIFICATION FOR CURING CONCRETE'.
8. ACI-309 'GUIDE FOR CONSOLIDATION OF CONCRETE'.
9. ACI-311.4 'GUIDE FOR CONCRETE INSPECTION'.
10. ACI-315 'DETAILS AND DETAILING OF CONCRETE REINFORCEMENT'.
11. ACI-318 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE'.
12. ACI-506.2 'SPECIFICATION FOR SHOTCRETING'.
13. ACI 347 'GUIDE TO FORMWORK FOR CONCRETE'.
14. ACI 303.1 'STANDARD SPECIFICATION FOR CAST-IN PLACE/ARCHITECTURAL CONCRETE'.

ASTM:
1. ASTM C33 'STANDARD SPECIFICATION FOR CONCRETE AGGREGATES'.
2. ASTM C94 'STANDARD SPECIFICATION FOR READY-MIX CONCRETE'.
3. ASTM C150 'STANDARD SPECIFICATION FOR PORTLAND CEMENT'.
4. ASTM C260 'STANDARD SPECIFICATION FOR AIR-ENTRAINED ADMIXTURES FOR CONCRETE'.
5. ASTM C309 'STANDARD SPECIFICATION FOR LIQUID MEMBRANE-FORMING COMPOUNDS FOR CURING CONCRETE'.
6. ASTM C494 'STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE'.
7. ASTM C595 'STANDARD SPECIFICATION FOR BLENDED HYDRAULIC CEMENTS'.
8. ASTM C618 'STANDARD SPECIFICATION FOR ... FLY-ASH...'.
9. ASTM C989 'STANDARD SPECIFICATION FOR SLAG...'.
10. ASTM C1017 'STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR USE IN PRODUCING FLOWING CONCRETE'.
11. ASTM C-1116 'STANDARD SPECIFICATION FOR FIBER-REINFORCED CONCRETE'.
12. ASTM C-1218 'STANDARD TEST METHOD FOR WATER-SOLUBLE CHLORIDE IN MORTAR AND CONCRETE'.
13. ASTM C-1315 'STANDARD SPECIFICATION FOR LIQUID MEMBRANE-FORMING COMPOUNDS HAVING SPECIAL PROPERTIES FOR CURING AND SEALING'

MIX DESIGNS: THE CONTRACTOR SHALL DESIGN CONCRETE MIXES THAT MEET OR EXCEED THE REQUIREMENTS OF THE CONCRETE MIX TABLE. ALL CONCRETE MIXES SHALL BE NORMAL WEIGHT, UNLESS NOTED OTHERWISE. THE MIX DESIGNS SHALL FACILITATE ANTICIPATED PLACEMENT METHODS, WEATHER, REBAR CONGESTION, ARCHITECTURAL FINISHES, CONSTRUCTION SEQUENCING, STRUCTURAL DETAILS, AND ALL OTHER FACTORS REQUIRED TO PROVIDE A STRUCTURALLY SOUND, AESTHETICALLY ACCEPTABLE FINISHED PRODUCT. WATER REDUCING ADMIXTURES WILL LIKELY BE REQUIRED TO MEET THESE REQUIREMENTS. CONCRETE MIX DESIGNS SHALL CLEARLY INDICATE THE TARGET SLUMP. SLUMP TOLERANCE SHALL BE ± 1-1/2 INCHES.

AGGREGATE: COARSE AND FINE AGGREGATE SHALL CONFORM TO ASTM C33

CEMENT: CEMENT SHALL CONFORM TO ASTM C150, TYPE II PORTLAND CEMENT OR ASTM C595 - TYPE IL PORTLAND LIMESTONE CEMENT, , UNLESS NOTED OTHERWISE.

FLYASH: SHALL CONFORM TO ASTM C618 CLASS C OR F, MAXIMUM LOSS OF IGNITION SHALL BE 1.0%.

SLAG: GROUND GRANULATED BLAST-FURNACE (GGBF) SLAG SHALL CONFORM TO ASTM C989 GRADE 100 OR 120.

ALTERNATE MIX DESIGNS: VARIATIONS TO THE MIX DESIGN PROPORTIONS MAY BE ACCEPTED IF SUBSTANTIATED IN ACCORDANCE WITH ACI 318, CHAPTER 19. PROVIDE SUBMITTALS A MINIMUM OF TWO WEEKS PRIOR TO BID FOR DETERMINATION OF ACCEPTABILITY.

ADMIXTURES: ADMIXTURES SHALL BE BY MASTER BUILDERS, W.R. GRACE, OR PRE-APPROVED EQUAL. ALL MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED.

WATER: SHALL BE CLEAN AND POTABLE.

MAXIMUM CHLORIDE CONTENT: THE MAXIMUM WATER SOLUBLE CHLORIDE CONTENT SHALL NOT EXCEED 0.15% BY WEIGHT OF CEMENTITIOUS MATERIAL UNLESS NOTED OTHERWISE.

CONCRETE EXPOSED TO WEATHER: PROVIDE 5.0% TOTAL AIR CONTENT FOR ALL CONCRETE EXPOSED TO WEATHER. TOTAL AIR CONTENT IS THE SUM OF ENTRAINED AIR PROVIDED BY ADMIXTURES AND NATURALLY OCCURRING ENTRAPPED AIR. AIR CONTENT SHALL BE TESTED PRIOR TO BEING PLACED IN THE PUMP HOPPER OR BUCKET; IT IS NOT REQUIRED TO BE TESTED AT THE DISCHARGE END OF THE PUMP HOSE. THE TOLERANCE ON ENTRAPPED AIR SHALL BE +2.0% AND -1.5% WITH THE AVERAGE OF ALL TESTS NOT LESS THAN THE SPECIFIED AMOUNT.

TOTAL CEMENTITIOUS MATERIAL: THE SUM OF ALL CEMENT PLUS FLYASH AND SLAG. AT THE CONTRACTORS OPTION FLYASH OR SLAG MAY BE SUBSTITUTED FOR CEMENT BUT SHALL NOT EXCEED 25% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIAL. IN NO CASE SHALL THE AMOUNT OF FLYASH OR SLAG BE LESS THAN REQUIRED BY THE CONCRETE MIX DESIGN TABLE. FOOTING MIXES SHALL CONTAIN NOT LESS THAN **5 SACKS** OF CEMENTITIOUS MATERIAL PER CUBIC YARD, ALL OTHER MIXES SHALL CONTAIN NOT LESS THAN **5-1/2 SACKS** OF CEMENTITIOUS MATERIAL PER CUBIC YARD, UNLESS NOTED OTHERWISE.

ITEM	DESIGN f'c (PSI) (AT 28 DAYS U.N.O.)	MAX. W/C RATIO	MIN. FLYASH OR SLAG (PCY)	AGGREGATE GRADING ASTM AASHTO	NOTES
SLAB ON GRADE - EXPOSED TO WEATHER	5000	0.40	100	57 OR 67	
SLABS ON GRADE - UNO	4000	0.45	100	57 OR 67	
ARCHITECTURALLY EXPOSED SLABS ON GRADE	4000	0.45	100	57 OR 67	1, 2
FOUNDATIONS - UNO	3000	0.50	--	57 OR 67	
STEM WALLS AND OTHER WALLS EXPOSED TO EARTH OR WEATHER	4500	0.45	100	57 OR 67	
STEM WALLS AND OTHER WALLS - UNO	4000	0.50	100	57 OR 67	
STRUCTURAL SLAB & WALLS AT SURGE TANK	5000	0.40	100	57 OR 67	3
CONTROLLED DENSITY FILL (CDF)	200	--	--	SAND	4
ALL OTHER CONCRETE	4000	0.50	--	57 OR 67	

CONCRETE MIX NOTES:

1. MAXIMUM WATER CONTENT 240 PCY.
2. THIS MIX SHALL CONTAIN 1 GALLON PER CY OF 'ECLIPSE FLOOR 200' SHRINKAGE REDUCING ADD MIXTURE BY GCP APPLIED TECHNOLOGIES, MASTER BUILDERS MASTERLIFE CRA 007 OR APPROVED ALTERNATE. FOR CONCRETE REQUIRING AN AIR ENTRAINMENT ADMIXTURE, 'ECLIPSE 4500' OR MASTERLIFE SRA 035 SHALL BE USED.
3. THIS MIX SHALL CONTAIN XYPEX ADD MIXTURE.
4. SAND - CEMENT CONCRETE GROUT.

CONCRETE PLACEMENT

PLACE CONCRETE FOLLOWING ALL APPLICABLE ACI RECOMMENDATIONS. CONCRETE SHALL BE PROPERLY CONSOLIDATED PER ACI 309 USING INTERIOR MECHANICAL VIBRATORS, DO NOT OVER-VIBRATE. CONCRETE SHALL BE POURED MONOLITHICALLY BETWEEN CONSTRUCTION OR EXPANSION JOINTS. IF CONCRETE IS PLACED BY THE PUMP METHOD, HORSES SHALL BE PROVIDED TO SUPPORT THE HOSE. THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING. WEATHER FORECASTS SHALL BE MONITORED AND ACI RECOMMENDATIONS FOR HOT AND COLD WEATHER CONCRETING SHALL BE FOLLOWED AS REQUIRED. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FEET DURING PLACEMENT WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

FLOATING & FINISHING OPERATIONS

WATER SHALL NOT BE ADDED TO THE CONCRETE SURFACE DURING FLOATING & FINISHING OPERATIONS. PRE-APPROVED EVAPORATION RETARDER SPECIFICALLY DESIGNED FOR FLOATING & FINISHING OPERATIONS ARE ACCEPTABLE.

FORMED SURFACES:

FORMWORK CLASS OF SURFACE PER ACI 347 TABLE 3.1	
ITEM	CLASS OF FINISH
ALL SURFACES EXPOSED TO PUBLIC VIEW, U.N.O.	A
ALL SURFACES RECEIVING A COURSE TEXTURED COATING SUCH AS PLASTER OR STUCCO, UNLESS NOTED OTHERWISE	B
ALL OTHER SURFACES, UNLESS NOTED OTHERWISE	C

FORMWORK STRIPPING:

COLUMNS & WALLS: COLUMNS AND WALLS NOT SUPPORTING FRAMING WEIGHT MAY BE STRIPPED AS SOON AS FORMS CAN BE REMOVED WITHOUT DAMAGING THE CONCRETE AND THE CONCRETE HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 500 PSI.

COLD WEATHER PLACEMENT:

1. COLD WEATHER IS DEFINED BY ACI 306 AS "A PERIOD WHEN FOR MORE THAN 3 SUCCESSIVE DAYS THE MEAN DAILY TEMPERATURE DROPS BELOW 40° F."
2. NO CONCRETE SHALL BE PLACED ON FROZEN OR PARTIALLY FROZEN GROUND. THAWING THE GROUND WITH HEATERS IS PERMISSIBLE.
3. CONCRETE MIX TEMPERATURES SHALL BE AS SHOWN BELOW. HEATING OF WATER AND/OR AGGREGATES MAY BE REQUIRED TO ATTAIN THESE TEMPERATURES.
4. THE CONCRETE MAY REQUIRE PROTECTION FOR 4-7 DAYS AFTER POURING. IF TEMPERATURES REMAIN BELOW FREEZING, INSULATING BLANKET COVERAGE IS REQUIRED. IF TEMPERATURES ARE SLIGHTLY BELOW FREEZING (30° F MIN.) AT NIGHT AND ABOVE FREEZING DURING THE DAY, KRAFT PAPER WITH COMPLETE COVERAGE MAY BE USED IN LIEU OF INSULATED BLANKETS.
5. NO ADDITIVES CONTAINING CHLORIDES SHALL BE USED. USE "POZZUTEC 20+" BY MASTER BUILDERS OR "POLARSET" BY W.R. GRACE OR PRE-APPROVED EQUAL.

CONDITION OF PLACEMENT AND CURING		WALLS & SLABS	FOOTINGS
MIN. TEMP. FRESH CONCRETE AS MIXED FOR WEATHER INDICATED, DEGREES F.	ABOVE 30° F.	60°	55°
	0° TO 30° F.	65°	60°
	BELOW 0° F.	70°	65°
MIN. TEMP. FRESH CONCRETE AS PLACED AND MAINTAINED, DEGREES F.		55°	50°
MAX. ALLOWABLE GRADUAL DROP IN TEMP. THROUGHOUT FIRST 24 HOURS AFTER END OF PROTECTION, DEGREES F.		50°	40°

HOT OR WINDY WEATHER PLACEMENT

HOT WEATHER IS DEFINED BY ACI 305 AS "ANY COMBINATION OF HIGH AIR TEMPERATURE, LOW RELATIVE HUMIDITY, AND WIND VELOCITY, TENDING TO IMPAIR THE QUALITY OF FRESH HARDENED CONCRETE. ACI 305 FIGURE 2.1.5 SHALL BE USED BY THE CONTRACTOR TO ESTIMATE THE RATE OF EVAPORATION. WHEN THE ESTIMATED RATE OF EVAPORATION IS GREATER THAN O.2 PSF/HOUR THE PLACEMENT SHALL BE CONSIDERED A HOT WEATHER PLACEMENT. PRECAUTIONS AGAINST PLASTIC SHRINKAGE CRACKING ARE NECESSARY. PRECAUTIONS TAKEN BY THE CONTRACTOR VARY DEPENDING UPON THE FACTORS ASSOCIATED WITH WATER EVAPORATION AND INCLUDE BUT ARE NOT LIMITED TO:

1. LIMITING CONCRETE TEMPERATURE TO 100°F AT TIME OF PLACEMENT.
2. APPLICATION OF AN EVAPORATION RETARDER.
3. USE OF FOG SPRAY.
4. REDUCTION OF POUR SIZE.
5. PLACING CONCRETE AT NIGHT.

CONTROL AND CONSTRUCTION JOINTS

CONSTRUCTION JOINTS SHALL MEET THE REQUIREMENTS OF ACI 301 SECTIONS 2.2.2.5 AND 5.3.2.6. SPECIAL BONDING METHODS PER SECTION 5.3.2.6 SHALL BE SATISFIED BY ITEM 6 BELOW UNLESS OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN ON PLAN OR ADDITIONAL CONSTRUCTION JOINTS ARE REQUIRED SUBMIT PROPOSED JOINTING FOR STRUCTURAL ENGINEERS APPROVAL. PROVIDE CONSTRUCTION JOINTS AS INDICATED BELOW UNLESS NOTED OTHERWISE ON THE PLANS:

1. SLABS ON GRADE: PROVIDE CONSTRUCTION AND/OR CONTROL JOINTS AT 16 FEET O.C. MAXIMUM FOR UNEXPOSED SLABS ON GRADE AND 12 FEET O.C. FOR EXPOSED SLABS ON GRADE. COORDINATE JOINTS WITH ARCHITECTURAL DRAWINGS.
2. BONDING AGENT: WHERE BONDING AGENT IS SPECIFICALLY CALLED OUT ON THE STRUCTURAL DRAWINGS USE "WELD CRETE" BY LARSON PRODUCTS CORPORATION OR PRE-APPROVED EQUAL. FOLLOW ALL MANUFACTURERS RECOMMENDATIONS.
3. ATTACHMENT OF NEW CONCRETE TO EXISTING: WHERE SHOWN, ROUGHEN CONCRETE TO A MINIMUM AMPLITUDE OF 1/4" USING IMPACT HAMMER. REMOVE ALL LOOSE OR DAMAGED CONCRETE, THOROUGHLY FLUSH ALL SURFACES WITH POTABLE WATER, AIR BLAST WITH OIL FREE COMPRESSED AIR TO REMOVE ALL WATER.

EMBEDDED ITEMS

1. NO ALUMINUM ITEMS SHALL BE EMBEDDED IN ANY CONCRETE.
2. ALL EMBED PLATES SHALL BE SECURELY FASTENED IN PLACE.
3. ALL EMBEDDED STEEL ITEMS EXPOSED TO EARTH SHALL BE GALVANIZED.
4. ALL EMBEDDED STEEL ITEMS EXPOSED TO WEATHER SHALL BE PAINTED UNLESS NOTED AS GALVANIZED. SEE DRAWINGS AND SPECIFICATIONS FOR PAINT, PRIMER, AND GALVANIZING REQUIREMENTS.
5. EMBEDDED FLEXIBLE CONDUIT IS PERMITTED IN OTHER CAST IN PLACE CONCRETE SLABS WITH A THICKNESS GREATER OR EQUAL TO 5-1/2 INCHES. WHERE PERMITTED IT MAY BE PLACED ON TOP OF THE BOTTOM MAT OF REINFORCING. THE OUTSIDE DIAMETER OF THE CONDUIT SHALL NOT BE GREATER THAN 1-INCH. A MINIMUM OF 2-INCHES CLEAR SHALL BE PROVIDED BETWEEN CONDUIT AND PARALLEL REINFORCING. SPACE CONDUITS A MINIMUM OF 12-INCHES APART, WHERE THIS IS NOT POSSIBLE NOTIFY ENGINEER FOR ADDITIONAL REINFORCING REQUIREMENTS.

CONCRETE CURING AND SEALING

CURING PROCEDURES SHALL COMMENCE IMMEDIATELY AFTER FINISHING CONCRETE TO MAINTAIN CONCRETE IN A MOIST CONDITION. VERIFY CURING AND/OR SEALING PRODUCTS ARE COMPATIBLE WITH FLOOR COVERINGS SHOWN ON THE ARCHITECTURAL DRAWINGS. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS. SLABS ARE DEFINED AS SLABS ON GRADE, CONCRETE ON METAL DECK, ELEVATED POST-TENSIONED OR MILD REINFORCED DECKS, AND TOPPING SLABS.

ITEM	CONCRETE CURING NOTES
SLABS EXPOSED TO EARTH OR WEATHER OR VEHICLE OR FORKLIFT TRAFFIC INCLUDING LOADING DOCKS	1, (3 OR 4 OR 5), 6
ALL OTHER SLABS	1, (3 OR 4 OR 5)
ALL OTHER CONCRETE	NONE

CONCRETE CURING NOTES:

1. WHEN THE ESTIMATED EVAPORATION RATE IS GREATER THAN 0.2 PSF/HOUR PROVIDE A SPRAY APPLIED EVAPORATION RETARDER IMMEDIATELY AFTER CONCRETE PLACEMENT. THE EVAPORATION RATE MAY BE CALCULATED PER ACI 305 FIGURE 2.1.5.
2. APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND, CONFORMING TO ASTM C309 TYPE 1 CLASS B SPECIFICATIONS, PER MANUFACTURER'S RECOMMENDATIONS TO ALL FORMED SURFACES IMMEDIATELY AFTER FINAL FORM REMOVAL. NOT REQUIRED IF FORMWORK REMAINS IN PLACE FOR MORE THAN 7 DAYS.
3. PROVIDE PRE-APPROVED CONTINUOUS WET CURE METHOD FOR A MINIMUM OF 14 DAYS.
4. APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND, CONFORMING TO ASTM C309 TYPE 1 CLASS B SPECIFICATIONS OR ASTM C1315 TYPE 1 CLASS A SPECIFICATIONS, PER MANUFACTURER'S RECOMMENDATIONS IMMEDIATELY AFTER FINAL FINISHING. CURING COMPOUND SHALL BE COMPATIBLE WITH ARCHITECTURAL FLOOR COVERINGS AND SEALERS.
5. PROVIDE 'ULTRACURE MAX' MOISTURE RETAINING COVER BY MCTECH GROUP, OR APPROVED EQUAL, FOR A MINIMUM OF 14 DAYS.
6. APPLY A SILANE SEALER WITH MINIMUM SOLIDS CONTENT OF 40% PER MANUFACTURER'S RECOMMENDATIONS.

GROUT

NON-SHRINK GROUT: MASTER BUILDERS "MASTERFLOW 928" OR PRE-APPROVED EQUAL. GROUT SHALL CONFORM TO CRD-C621 AND ASTM C1107 WHEN TESTED AT A FLUID CONSISTENCY P

REINFORCING STEEL

REINFORCING STEEL SHALL CONFORM TO:

ASTM A615, GRADE 60 TYPICAL UNLESS NOTED OTHERWISE.

ASTM A706 GRADE 60 FOR ALL WELDED BARS.

DETAIL FABRICATE AND PLACE PER ACI 315 AND ACI 318.

REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE, Fy=60 KSI (UNLESS NOTED OTHERWISE)

BAR SIZE	MINIMUM LAP SPLICE LENGTHS ("Ls")		MINIMUM DEVELOPMENT LENGTHS ("Ld")		MINIMUM EMBEDMENT LENGTH FOR STANDARD END HOOKS ("Ldh")
	TOP BARS (1)	OTHER BARS	TOP BARS (1)	OTHER BARS	
#3	2'-0"	1'-6"	1'-6"	1'-3"	0'-7"
#4	2'-8"	2'-0"	2'-0"	1'-7"	0'-9"
#5	3'-4"	2'-7"	2'-7"	2'-0"	1'-0"
#6	4'-0"	3'-1"	3'-1"	2'-4"	1'-2"
#7	5'-10"	4'-6"	4'-6"	3'-6"	1'-5"
#8	6'-8"	5'-2"	5'-2"	3'-11"	1'-7"

SPLICE TABLE NOTES:

1. "TOP BARS" ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

MECHANICAL COUPLERS: "LENTON" BY ERICO, "CADWELD" BY ERICO, "BAR-LOCK" BY DAYTON SUPERIOR L-SERIES, OR PRE-APPROVED EQUAL. COUPLERS SHALL BE TYPE 2 PER ACI 318 SECTION 18.2.7.1.

WELDED HALF COUPLERS: "LENTON" BY ERICO WELDABLE HALF COUPLERS TYPE C2/C3J OR APPROVED EQUAL.

TERMINATORS: "LENTON" BY ERICO THREADED TERMINATORS TYPE D6 OR APPROVED EQUAL.

FORM SAVERS: "LENTON" BY ERICO THREADED FORM SAVERS TYPE FS OR APPROVED EQUAL.

REINFORCING STEEL COVER

PROVIDE CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

CONCRETE CAST AGAINST EARTH ---------- 3"
EXPOSED TO WEATHER OR EARTH ---------- 2"
TIES ON BEAMS AND COLUMNS ---------- 1-1/2"
WALLS AND SLABS NOT EXPOSED TO WEATHER---- 3/4"
AUGERCAST PILES ---------- 2-1/2"

CONCRETE INSERTS: THREADED DOWEL BAR SUBSTITUTIONS SHALL BE MANUFACTURED BY RICHMOND SCREW ANCHOR CO., INC., OR PRE-APPROVED EQUAL AND SHALL BE CAPABLE OF DEVELOPING THE FULL TENSILE CAPACITY OF THE BAR.

POST-INSTALLED ANCHORS

POST-INSTALLED ANCHORS: SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH REBAR. INSTALL IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. INSTALLER SHALL BE QUALIFIED AND TRAINED BY THE MANUFACTURER. HOLES SHALL BE HAMMER DRILLED ONLY (ROTARY DRILLED ONLY AT UNREINFORCED MASONRY - NO HAMMER TOOLS).

SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED FOR APPROVAL A MINIMUM OF 2 WEEKS PRIOR TO BID, ALONG WITH CALCULATIONS THAT SHALL BE STAMPED BY A PROFESSIONAL ENGINEER (LICENSED IN THE STATE OF THE PROJECT) DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

CONCRETE ANCHORS:
- ADHESIVE ANCHORS: HILTI HIT-HY 200 V3 (ICC-ESR-4868), HILTI HIT-RE 500 V3 (ICC-ESR-3814), DEWALT PURE 110+ (ICC-ESR-3298) OR SIMPSON SET-3G (ICC-ESR-4057) OR PRE-APPROVED EQUAL.
  - *CONCRETE SHALL BE A MINIMUM OF 21 DAYS OLD AT TIME OF INSTALLATION.
  - *CONCRETE SHALL BE IN THE TEMPERATURE RANGE AS REQUIRED BY THE CONCRETE MANUFACTURER.
  - *HOLE SHALL BY HAMMER-DRILLED ONLY.
  - *DO NOT INSTALL IN WATER-FILLED HOLES.
  - *INSTALLER OF HORIZONTAL OR UPWARDLY INCLINED (ANY POSITION EXCEPT DIRECTLY DOWNWARD) ANCHORS SHALL ALSO BE CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.
- EXPANSION ANCHORS: KWIKBOLT TZ2 (ICC ESR-4266) BY HILTI, INC., OR PRE-APPROVED EQUAL.
- SCREW ANCHORS: KWIK HUS-EZ (ICC ESR-3027) BY HILTI, INC., OR PRE-APPROVED EQUAL.

STRUCTURAL STEEL

DETAILING, FABRICATION AND ERECTION

ALL WORKMANSHIP SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION, 15TH EDITION, THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS JULY 7, 2016, THE AISC CODE OF STANDARD PRACTICE, JUNE 15, 2016 AND THE AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, JULY 12, 2016.

STEEL MEMBERS ARE EQUALLY SPACED BETWEEN COLUMNS AND/OR DIMENSION POINTS UNLESS NOTED OTHERWISE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERECTION AIDES AND JOINT PREPARATIONS THAT INCLUDE BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES, AND OTHER AIDES, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, WELD EXTENSION TABS, COPES, SURFACE ROUGHNESS VALUES AND TAPERS OF UNEQUAL PARTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLIANCE WITH ALL CURRENT OSHA REQUIREMENTS.

HOLES, COPES OR OTHER CUTS OR MODIFICATIONS OF THE STRUCTURAL STEEL MEMBERS SHALL NOT BE MADE IN THE FIELD WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

STEEL FABRICATORS

NON-AISC CERTIFIED STEEL FABRICATORS SHALL HAVE FIVE YEARS MINIMUM EXPERIENCE ON SIMILAR PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TWO WEEKS PRIOR TO SHOP DRAWING PRODUCTION.

STEEL ERECTORS

NON-AISC CERTIFIED STEEL ERECTORS SHALL HAVE FIVE YEARS MINIMUM EXPERIENCE ON SIMILAR PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TWO WEEKS PRIOR TO SHOP DRAWING PRODUCTION.

STEEL DETAILERS

ALL STEEL DETAILING SHALL BE PERFORMED BY A DETAILER WITH FIVE YEARS MINIMUM EXPERIENCE ON SIMILAR PROJECTS OF EQUAL OR LARGER COMPLEXITY AND SCOPE. QUALIFICATIONS SHALL BE SUBMITTED TWO WEEKS PRIOR TO SHOP DRAWING PRODUCTION.

MATERIAL PROPERTIES

WIDE FLANGE SECTIONS: ASTM A992 (Fy = 50 KSI)

OTHER SHAPES AND PLATES: ASTM A36 (Fy = 36 KSI) TYP. U.N.O.; ASTM A572 (Fy = 50 KSI) WHERE INDICATED

HOLLOW STRUCTURAL SECTIONS: RECTANGULAR & SQUARE - ASTM A500, GRADE C (Fy = 50 KSI) ROUND - ASTM A500, GRADE C (Fy = 46 KSI)

STRUCTURAL STEEL PIPES: ASTM A53, GRADE B, TYPE E OR S (Fy = 35 KSI)

MACHINE BOLTS (M.B.): ASTM A307, GRADE A

HIGH-STRENGTH BOLTS: A325-ASTM F1852, A490-ASTM F2280

ANCHOR BOLTS (A.B.): ASTM F1554, GRADE 36, UNLESS OTHERWISE NOTED, ASTM F1554, GRADE 55-S1 OR 105 WHERE INDICATED.

WIDE FLANGE STRUCTURAL MEMBERS WHICH ARE ASTM A6 GROUP 3 SHAPES WITH FLANGE THICKNESS 1-1/2" THICK AND THICKER, AND ALL ASTM A6 GROUP 4 AND 5 SHAPES AND PLATE THAT IS 1-1/2" THICK OR THICKER SHALL HAVE A CHARPY V-NOTCH (CVN) TOUGHNESS OF 20 FT-LBS @ 70 DEG F.

WELDING

STRUCTURAL STEEL: WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE" AWS D1.1.

LATERAL FORCE-RESISTING SYSTEM: WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE SEISMIC SUPPLEMENT" AWS D1.8.

REINFORCING STEEL: WELD IN ACCORDANCE WITH "REINFORCING STEEL WELDING CODE" AWS D1.4. WELD ONLY WITH SPECIFIC APPROVAL OF THE STRUCTURAL ENGINEER. IN NO CASE SHALL A WELD BE MADE WITHIN 6 BAR DIAMETERS OF A "COLD BEND".

CERTIFICATION: ALL WELDING SHALL BE PERFORMED BY WABO CERTIFIED WELDERS. WELDERS SHALL BE PREQUALIFIED FOR EACH POSITION AND WELD TYPE WHICH THE WELDER WILL BE PERFORMING.

WELD TABS (ALSO KNOWN AS WELD "EXTENSION" TABS OR "RUN OFF" TABS) SHALL BE USED. AFTER THE WELD HAS BEEN COMPLETED THE WELD TABS SHALL BE REMOVED AND THE WELD END GROUND TO A SMOOTH CONTOUR. WELD "DAMS" OR "END DAMS" SHALL NOT BE USED.

THE PROCESS CONSUMABLES FOR ALL WELD FILLER METAL INCLUDING TACK WELDS, ROOT PASS AND SUBSEQUENT PASSES DEPOSITED IN A JOINT SHALL BE COMPATIBLE.

ALL WELD FILLER METAL AND WELD PROCESS SHALL PROVIDE THE TENSILE STRENGTH AND CHARPY V-NOTCH RATINGS AS FOLLOWS:

GRAVITY FRAME

WELD TYPE	FILLER METAL TENSILE STRENGTH	CHARPY V-NOTCH (CVN) RATING
FILLET	70 KSI	-----
PARTIAL PENETRATION	70 KSI	-----
COMPLETE PENETRATION	70 KSI	20 FT-LBS @ 40 DEG F

LATERAL FORCE-RESISTING SYSTEM

WELD TYPE	FILLER METAL TENSILE STRENGTH	CHARPY V-NOTCH (CVN) RATING
FILLET	70 KSI	20 FT-LBS @ 0 DEG F
PARTIAL PENETRATION	70 KSI	20 FT-LBS @ 0 DEG F
COMPLETE PENETRATION	70 KSI	20 FT-LBS @ 0 DEG F
FILLET (1)	70 KSI	40 FT-LBS @ 70 DEG F
PARTIAL PENETRATION (1)	70 KSI	40 FT-LBS @ 70 DEG F
COMPLETE PENETRATION (1)	70 KSI	40 FT-LBS @ 70 DEG F

(1) DCW LOCATIONS ARE INDICATED IN THE DETAILS.

WELDED CONNECTIONS INSPECTION:

1. ALL WELDING SHALL BE CHECKED BY VISUAL MEANS AND BY OTHER METHODS DEEMED NECESSARY BY THE WELDING INSPECTOR.
2. ALL FULL PENETRATION WELDS TO MEMBERS WHICH FORM A PORTION OF THE LATERAL FORCE-RESISTING SYSTEM SHALL BE CHECKED 100 PERCENT BY ULTRASONIC TESTING.
3. THE CONTRACTOR SHALL SUBMIT A WRITTEN WELDING PROCEDURE SPECIFICATION FOR SHOP AND FIELD WELDING OF ALL LATERAL FORCE-RESISTING SYSTEM CONNECTIONS FOR APPROVAL TO THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION.

THE STANDARDS OF ACCEPTANCE FOR WELDS TESTED BY ULTRASONIC METHODS SHALL CONFORM TO AWS D1.1.

ALL WELDS FOUND TO BE DEFECTIVE SHALL BE REPAIRED AND REINSPECTED BY THE SAME METHODS ORIGINALLY USED, AND THIS REPAIR AND REINSPECTION SHALL BE PAID FOR BY THE CONTRACTOR

GENERAL REQUIREMENTS

HIGH-STRENGTH BOLTS: ALL A325 HIGH-STRENGTH BOLTS (HSB) SHALL BE ASTM F3125, GRADE F1852, UNLESS OTHERWISE DESIGNATED AS A490. ALL HSB DESIGNATED AS A490 SHALL BE ASTM F3125, GRADE F2280. ALL HSB SHALL BE BY "LEJEUNE BOLT COMPANY" OR PRE-APPROVED EQUAL AND SHALL BE INSTALLED PER SECTION 8.2 OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS", AUGUST 2014 BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC SPECIFICATION). ALL BOLT HOLES SHALL BE STANDARD ROUND HOLES UNLESS NOTED OTHERWISE. THE FAYING SURFACES OF ALL PLIES WITHIN THE GRIP OF SLIP-CRITICAL BOLTS (A325SC OR A490SC) SHALL MEET THE REQUIREMENTS FOR A CLASS A SURFACE PER SECTION 3.2 OF THE RCSC SPECIFICATION.

BOLTED CONNECTIONS INSPECTION: CONNECTIONS MADE WITH BEARING TYPE BOLTS SHALL BE INSPECTED PER SECTION 9.1 AND CONNECTIONS MADE WITH SLIP-CRITICAL TYPE BOLTS (A325SC OR A490SC) SHALL BE INSPECTED PER SECTION 9.3 OF RCSC SPECIFICATION.

ADHESIVE ANCHOR RODS: FULLY THREADED ASTM F1554, GRADE 36 UNLESS NOTED OTHERWISE.

HEADED STUDS: SHALL BE "H4L HEADED CONCRETE ANCHORS" FOR STUDS 5/8" DIAMETER AND SMALLER AND "S3L SHEAR CONNECTORS" FOR STUDS 3/4" DIAMETER AND LARGER AS MANUFACTURED BY NELSON STUD WELDING, INC. OR PRE-APPROVED EQUAL AND SHALL CONFORM TO AWS D1.1. ALL HEADED STUDS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS USING A NELSON WELD GUN, UNLESS NOTED OTHERWISE ON DETAILS. ALL WELDS SHALL BE MADE AND INSPECTED IN ACCORDANCE WITH AWS D1.1.

DEFORMED BAR ANCHORS: SHALL BE "D2L DEFORMED BAR ANCHORS" AS MANUFACTURED BY NELSON STUD WELDING, INC. OR PRE-APPROVED EQUAL AND SHALL CONFORM TO AWS D1.1. ALL DEFORMED BAR ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS USING A NELSON WELD GUN, UNLESS NOTED OTHERWISE ON DETAILS. ALL WELDS SHALL BE MADE AND INSPECTED IN ACCORDANCE WITH AWS D1.1.

FINISH: STRUCTURAL STEEL SHALL BE UNPAINTED, UNLESS NOTED OTHERWISE, AND SHALL BE CLEAN OF LOOSE RUST, LOOSE MILL SCALE, OIL, GREASE AND OTHER FOREIGN SUBSTANCES AND SHALL MEET THE REQUIREMENTS OF SSPC-SP1. WHERE STRUCTURAL STEEL IS NOTED TO BE PAINTED, ALL AREAS COMPRISING THE FAYING SURFACES OF BOLTED CONNECTIONS MADE WITH SLIP-CRITICAL TYPE BOLTS (A325SC OR A490SC) SHALL COMPLY WITH THE REQUIREMENTS OF THE RCSC SPECIFICATION. WHERE STRUCTURAL STEEL IS NOTED TO BE GALVANIZED, IT SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123, A384, AND A385. ALL SURFACES WITHIN TWO INCHES OF ANY FIELD WELD LOCATION SHALL BE FREE OF MATERIALS THAT WOULD PREVENT PROPER WELDING OR PRODUCE OBJECTIONABLE FUMES. FIELD TOUCH-UP OF PRIMED, PAINTED, AND GALVANIZED SURFACES SHALL BE PERFORMED TO REPAIR COATING ABRASIONS, AS WELL AS TO PROTECT ALL AREAS AT CONNECTIONS.

ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS): ALL MEMBERS DESIGNATED AS AESS SHALL CONFORM TO SECTION 10, ARCHITECTURALLY EXPOSED STRUCTURAL STEEL, OF THE AISC CODE OF STANDARD PRACTICE.

AESS CATEGORY	DESCRIPTION
AESS 1	BASIC ELEMENTS
AESS 2	FEATURE ELEMENTS NOT IN CLOSE VIEW (ELEMENTS VIEWED AT A DISTANCE > 20 FEET)
AESS 3	FEATURE ELEMENTS IN CLOSE VIEW (ELEMENTS VIEWED AT A DISTANCE < 20 FEET)
AESS 4	SHOWCASE ELEMENTS (ELEMENTS WITH SPECIAL SURFACE & EDGE TREATMENT BEYOND FABRICATION)
AESS C	CUSTOM ELEMENTS (ELEMENTS WITH CHARACTERISTICS DESCRIBED IN THE CONTRACT DOCUMENTS)

THREADED STUDS: SHALL BE ASTM A29, 1010-1020, REDUCED BASE, FULLY OR PARTIALLY THREADED, ARC WELDED STUD. ALL THREADED STUDS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS USING A WELD GUN, UNLESS NOTED OTHERWISE ON DETAILS. ALL WELDS SHALL BE MADE AND INSPECTED IN ACCORDANCE WITH AWS D1.1.

OPEN-WEB STEEL JOISTS: SHALL BE MANUFACTURED BY CANAM STEEL CORPORATION, VULCRAFT A DIVISION OF NUCOR CORPORATION OR PRE-APPROVED EQUAL, AND SHALL CONFORM TO THE STEEL JOIST INSTITUTE (SJI) AND AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) STANDARDS AND CRITERIA LISTED IN THE CONTRACT DOCUMENTS AND SHALL BE DESIGNED TO CARRY THE LOADS LISTED IN THE DESIGN CRITERION AND THOSE INDICATED ON THE FRAMING PLANS. JOIST MANUFACTURER SHALL VERIFY AND INCLUDE FIRE RATING STRESS REDUCTIONS AND SIZE LIMITATIONS IN ORDER TO CONFORM TO THE ASSEMBLY REQUIREMENTS AS SHOWN ON THE ARCHITECTURAL DRAWINGS. FOR A WIND UPLIFT MAP SEE SHEET S1.5. AT A MINIMUM PROVIDE BRACING TO WITHSTAND A NET ASD WIND UPLIFT OF 4 PSF AND/OR 18 PSF WITHIN 10' OF ALL RIDGES, EAVES, ENDWALLS AND ROOF STEPS. FOR OTHER SPECIAL REQUIREMENTS, SEE STRUCTURAL DRAWINGS. ALL LOADS INDICATED ON THE FRAMING PLANS THAT ARE NOT DIMENSIONED ARE TO BE DESIGNATED AS ADLOADS BY THE JOIST MANUFACTURER. JOISTS SHALL BE DESIGNED AND DETAILED TO MEET ALL CURRENT OSHA STANDARDS. THE GENERAL CONTRACTOR SHALL COORDINATE ALL OSHA REQUIREMENTS BETWEEN THE STEEL DETAILER AND JOIST MANUFACTURER. SEE ADDITIONAL INFORMATION IN THE STRUCTURAL STEEL "DETAILING, FABRICATION, AND ERECTION" SECTION.

THE ENGINEER FOR THE OPEN-WEB STEEL JOIST DESIGN SHALL HAVE A MINIMUM OF (5) YEARS EXPERIENCE IN THE DESIGN OF OPEN-WEB STEEL JOISTS OF SIMILAR SIZE PROJECTS AND BE A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. THE ENGINEER FOR THE JOIST DESIGN SHALL SUBMIT A STAMPED LETTER OF COMPLIANCE INDICATING YEARS OF EXPERIENCE. THE LETTER SHALL ALSO STATE THAT THEY HAVE REVIEWED THE JOIST PLACEMENT DRAWINGS AND BILLS OF MATERIAL FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, ALONG WITH VERIFICATION THAT THE JOISTS CONFORM TO THE DESIGN CRITERIA AND ADDITIONAL LOADING REQUIREMENTS LISTED IN THE CONTRACT DOCUMENTS (INCLUDING BUT NOT LIMITED TO SNOW DRIFT, WIND UPLIFT, JOIST AXIAL LOADS AND MECHANICAL UNIT LOADING).

METAL ROOF DECK: SHALL CONTAIN THE MINIMUM PROPERTIES SHOWN ON THE STRUCTURAL DRAWINGS AND SHALL BE MANUFACTURED BY VERCO MANUFACTURING CO., ASC STEEL DECK, EPIC METALS, OR PRE-APPROVED EQUAL. THE ROOF DECK SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO ASTM A611 OR A653, AND SHALL BE GALVANIZED PER ASTM A924. THE ROOF DECK SHALL BE PLACED ON THE SUPPORTING FRAMEWORK WITH A MINIMUM END LAP OF TWO INCHES. SUBMIT SHOP DRAWINGS SHOWING LAYOUT AND FASTENING PATTERN. ALL ACCESSORIES SHALL BE PROVIDED TO COMPLETE THE ERECTION OF THE STEEL DECK.

BUCKLING-RESTRAINED BRACE:
PROVIDE ALL PARTS, MATERIALS AND LABOR REQUIRED FOR THE DESIGN, DELIVERY AND TESTING OF BUCKLING-RESTRAINED BRACES, WHICH ARE DESIGNED BY THE MANUFACTURER TO MEET STIFFNESS, YIELD STRENGTH AND ELONGATION REQUIREMENTS AS INDICATED ON THE DRAWINGS AND SPECIFICATION. DESIGN OF BRACES SHALL BE BASED ON CONNECTION TYPES AND PROPORTIONS INDICATED ON THE DRAWINGS.

POLYSTYRENE/RIGID INSULATION FOR BUILT-UP SLABS:

POLYSTYRENE OR RIGID INSULATION PLACED BELOW CONCRETE SLABS SHALL CONSIST OF RIGID CELLULAR POLYSTYRENE CONFORMING TO ASTM D6817. POLYSTYRENE SHALL HAVE A MINIMUM COMPRESSIVE RESISTANCE OF 2.2 PSI AT 1% DEFORMATION UNLESS NOTED OTHERWISE. SECURE POLYSTYRENE IN PLACE PER MANUFACTURER'S RECOMMENDATIONS. FOR LAYERED BLOCKS OF POLYSTYRENE, OFFSET JOINTS 24 INCHES BETWEEN ADJACENT LAYERS.

AT THE CONTRACTOR'S OPTION, IN PLACE OF POLYSTYRENE CONFORMING TO ASTM D6817, PROVIDE POLYSTYRENE CONFORMING TO ASTM C578 TYPE I RATED FOR 10 PSI COMPRESSIVE RESISTANCE AT 10% DEFORMATION WITH A MINIMUM THICKNESS OF 2 INCHES PER LAYER.

COLD-FORMED STEEL FRAMING CONSTRUCTION:

THE DESIGN, INSTALLATION AND CONSTRUCTION OF COLD-FORMED CARBON OR LOW-ALLOY STEEL, STRUCTURAL AND NON-STRUCTURAL STEEL FRAMING, SHALL BE IN ACCORDANCE WITH IBC SECTION 2211 AND AMERICAN IRON AND STEEL INSTITUTE (AISI) STANDARD S100-16 AND S240-15 AND SHALL BE MANUFACTURED BY A MEMBER OF THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA), CERTIFIED STEEL STUD ASSOCIATION (CSSA), STEEL FRAMING INDUSTRY ASSOCIATION (SFIA), OR PRE-APPROVED EQUAL, IN ACCORDANCE WITH A CURRENT ICC EVALUATION SERVICE REPORT, AISI S202-15 AND S240-15. ALL 54 MIL AND HEAVIER GALVANIZED MEMBERS SHALL BE FORMED FROM STEEL THAT MEETS THE REQUIREMENTS OF ASTM A653, QUALITY SQ, GRADE 50, CLASS 1, FY= 50 KSI. ALL 43 MIL AND LIGHTER GALVANIZED MEMBERS SHALL BE FORMED FROM STEEL THAT MEETS THE REQUIREMENTS OF ASTM A653, QUALITY SQ, GRADE 33, FY=33 KSI. BRIDGING PER MANUFACTURER'S REQUIREMENTS AND AS SHOWN IN THE STRUCTURAL DRAWINGS SHALL BE IN PLACE PRIOR TO PLACING OF ANY CONSTRUCTION LOADS. ALL RUNS SHALL BE RIGIDLY ANCHORED TO END WALLS.

EXTERIOR WALL AND BEARING WALL COLD-FORMED STEEL FRAMING: COLD-FORMED STEEL FRAMING MEMBERS SHALL MEET THE TYPE, SIZE AND THICKNESS AS INDICATED ON THE STRUCTURAL PLANS AND SPECIFICATIONS.

INTERIOR NON-BEARING WALL, CEILING, SOFFIT, AND OTHER MISC. COLD-FORMED STEEL FRAMING: COLD-FORMED STEEL FRAMING MEMBERS SHALL MEET THE TYPE, SIZE, AND THICKNESS AS INDICATED IN THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS, AND SHALL CONFORM TO THE MINIMUM PERSCRIPTIVE REQUIREMENTS OF THE GYPSUM CONSTRUCTION HANDBOOK BY CGC, INC. FRAMING CONDITIONS THAT EXCEED THE WEIGHT, SPAN OR HEIGHT LIMITATIONS SHALL BE CONSTRUCTED USING APPLICABLE DETAILS ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, DETAILING, FABRICATION AND ERECTION OF ALL COLD-FORMED FRAMING NOT SPECIFICALLY DETAILED IN THE GYPSUM CONSTRUCTION HANDBOOK OR ON THE STRUCTURAL DRAWINGS. THE DESIGN AND DETAILING OF THE COLD-FORMED STEEL FRAMING AND CONNECTION TO THE STRUCTURE SHALL BE PREPARED UNDER THE DIRECTION OF AND SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO CONSTRUCTION.

COLD-FORMED STEEL FRAMING SUBSTITUTION: AT THE CONTRACTOR'S OPTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, DETAILING, FABRICATION AND ERECTION OF THE INTERIOR NON-BEARING COLD-FORMED STEEL FRAMING AND OCCURING AT BRICK VENEER AND THE CONNECTION OF THE COLD-FORMED STEEL FRAMING TO THE STRUCTURE. THE DESIGN AND DETAILING OF THE COLD-FORMED STEEL FRAMING AND CONNECTION TO THE STRUCTURE SHALL BE PREPARED UNDER THE DIRECTION OF AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT AND SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO CONSTRUCTION.

POWDER ACTUATED FASTENERS: SHALL BE X-U UNIVERSAL KNURLED SHANK FASTENER BY HILTI OR PRE-APPROVED EQUAL. INSTALL PER ALL MANUFACTURER'S PUBLISHED RECOMMENDATIONS. COLD-FORMED STEEL TO STRUCTURAL STEEL: UNLESS NOTED OTHERWISE, PROVIDE 0.157" SHANK DIAMETER X-U LOW-VELOCITY FASTENER - FASTENER TIP SHALL PENETRATE STRUCTURAL STEEL. COLD-FORMED STEEL TO CONCRETE: UNLESS NOTED OTHERWISE, PROVIDE 0.157" SHANK DIAMETER X-U LOW-VELOCITY FASTENER - EMBED 1-1/2" MINIMUM INTO CONCRETE, UNLESS NOTED OTHERWISE.

SLIP CONNECTIONS: THE STEEL NETWORK "VERTICLIP" OR PRE-APPROVED EQUAL. MATCH CLIP WITH STUD SIZE AND THICKNESS. ATTACH PER MANUFACTURER'S REQUIREMENTS.

CARPENTRY:

FRAMING LUMBER: STANDARDS. EACH PIECE SHALL BEAR THE GRADE TRADEMARK OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB), WESTERN WOOD PRODUCTS ASSOCIATION (WWPA), OR OTHER AGENCY ACCREDITED BY THE AMERICAN LUMBER STANDARD COMMITTEE (ALSC) TO GRADE UNDER ALSC CERTIFIED GRADING RULES.

SPECIES AND GRADE (BASE DESIGN VALUE)
1. 6x BEAMS AND HEADERS. "DOUG FIR-LARCH" NO. 1 (Fb=1350 PSI, Fv=170 PSI)
2. 2x TO 4x JOISTS, PURLINS AND HEADERS. "DOUG FIR-LARCH" NO. 2 (Fb=900 PSI, Fv=180 PSI) OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fv=150 PSI)
3. 6x POSTS AND COLUMNS. "DOUG FIR-LARCH" NO. 1 (Fc=1000 PSI)
4. EXTERIOR STUDS, INTERIOR BEARING WALLS AND 4x COLUMNS. "DOUG FIR-LARCH" NO. 2 (Fb= 900 PSI, Fc= 1350 PSI) OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fc=1350 PSI)
5. INTERIOR NON-BEARING STUD WALLS. "DOUG FIR-LARCH" NO. 2 (Fb=900 PSI. Fc=1350 PSI) OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fc=1350 PSI)
6. 2x & 3x T&G DECKING: "DOUG FIR-LARCH" COMMERCIAL (Fb=1450 PSI, E=1700 KSI)
7. THE MINIMUM GRADE OF ALL OTHER STRUCTURAL FRAMING. "DOUG FIR-LARCH" NO. 2 (Fb= 900 PSI, Fc=1350 PSI), OR "HEM-FIR" NO. 1 (Fb=975 PSI, Fc=1350 PSI).
8. UTILITY & STANDARD GRADES NOT PERMITTED.

CROSS-LAMINATED TIMBER (CLT): SHALL BE MANUFACTURED BY STRUCTURLAM, SMARTLAM, KALESNIKOFF, OR PRE-APPROVED EQUAL AND CONFORM TO ANSI/APA PRG 320-18 STANDARD FOR PERFORMANCE-RATED CROSS-LAMINATED TIMBER AND IN ACCORDANCE WITH APPROVED SHOP AND INSTALLATION DRAWINGS. SHOP DRAWINGS SHALL SHOW ALL APPLICABLE DETAILS, PANELS, MEMBERS, AND CONNECTIONS. ELECTRICAL AND MECHANICAL SERVICES REQUIRING CUTTING AND DRILLING OF CLT PANELS SHALL BE SHOWN ON THE SHOP DRAWINGS AND APPROVED PRIOR TO FABRICATION. SEE SPECIFICATIONS FOR MOISTURE MITIGATION PLAN.

PANELS SHALL BE ARCHITECTURAL APPEARANCE GRADE AT EXPOSED SURFACES, INDUSTRIAL APPEARANCE GRADE AT TOP SIDE OF PANELS. MINIMUM SPECIFIC GRAVITY OF PANELS SHALL BE G = 0.42.

PANELS INDICATED IN STRUCTURAL DRAWINGS AS "3-PLY" SHALL
HAVE MAXIMUM WEIGHT OF 10.0 PSF WITH GRADE AS FOLLOWS:
SMARTLAM 3-ALT (4-1/8" THICKNESS) GRADE V2M5
STRUCTURLAM 105V (4-1/8" THICKNESS) GRADE V2.1M1.1
KALESNIKOFF 3-PLY (4-1/8" THICKNESS) GRADE V2M6

PANELS INDICATED IN STRUCTURAL DRAWINGS AS "5-PLY" SHALL
HAVE MAXIMUM WEIGHT OF 16.5 PSF WITH GRADE AS FOLLOWS:
SMARTLAM 5-ALT (6-7/8" THICKNESS) GRADE V2M5
STRUCTURLAM 175V (6-7/8" THICKNESS) GRADE V2.1M1.1
KALESNIKOFF 5-PLY (6-7/8" THICKNESS) GRADE V2M6

MEMBERS HAVE BEEN DESIGNED TO SERVICEABILITY AND OTHER PERFORMANCE BASED REQUIREMENTS, WHICH MAY EXCEED MINIMUM DESIGN LOADS AND CODE REQUIREMENTS. SUBSTITUTIONS MUST MEET OR EXCEED MOMENT, SHEAR, AND STIFFNESS OF THOSE MEMBERS SPECIFIED AT THE SAME THICKNESS.

MASS TIMBER SCREWS (MT SCREWS): SCREWS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, SAN LEANDRO, CA., MTC SOLUTIONS, SURREY, BC, OR PRE-APPROVED EQUAL. SCREWS SHALL BE PARTIALLY THREADED WITH ESR.

STEEL TO WOOD SCREWS:
*SIMPSON STRONG-DRIVE SDS HEAVY-DUTY CONNECTOR SCREW - 0.250" DIAMETER
*MTC SOLUTIONS ASSY KOMBI 3.0 SCREW - 0.313 DIAMETER

WOOD/CLT TO WOOD SCREWS:
*SIMPSON STRONG-DRIVE SDWS TIMBER SCREW - 0.220" DIAMETER
*MTC SOLUTIONS ASSY ECOFAST 4.0 SCREW - 0.250" DIAMETER.

GLUE-LAMINATED MEMBERS: CONFORM TO ANSI/AITC A190.1. MEMBERS SHALL BE COMBINATION 24F-V4 DOUGLAS FIR (DF) FOR SIMPLE SPANS; AND 24F-V8 DF FOR CANTILEVERED AND/OR CONTINUOUS SPANS (Fb=2400 PSI, Fv=265 PSI, E=1.8X10^6 PSI).

MEMBERS INDICATED IN STRUCTURAL DRAWINGS AS "AYC" SHALL BE ALASKAN YELLOW CEDAR COMBINATION 20F-V13 (Fb=2000 PSI, Fv=265 PSI, E=1.5X10^6 PSI).

MEMBERS INDICATED IN STRUCTURAL DRAWINGS AS "PPT" SHALL BE PRESERVATIVE PRESSURE TREATED COMBINAT

STATEMENT OF SPECIAL INSPECTIONS:

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1704 AND 1705 AND AS NOTED HEREIN.

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
SOILS	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X		IBC 1705.6
	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X		
	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X		
	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X			
	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X		

STEEL CONSTRUCTION	INSPECTION TASKS	OBSERVE	PERFORM	COMMENTS	REFERENCES
	PRIOR TO WELDING:			SPECIAL INSPECTIONS IN THIS SECTION **MAY BE** WAIVED WHERE FABRICATION IS PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5 **AND WITH THE APPROVAL OF THE BUILDING OFFICIAL.**	AISC 360, TABLE N5.4-1 AISC 341, TABLE J6.1
	WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	X			
	WELDING PROCEDURE SPECIFICATIONS		X		
	MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE		X		
	MATERIAL IDENTIFICATION (TYPE/GRADE)	X			
	WELDER IDENTIFICATION SYSTEM	X			
	FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION) • BACKING TYPE AND FIT (IF APPLICABLE)	X			
	FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- AND K-—JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) • JOINT PREPARATIONS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	X			
	CONFIGURATION AND FINISH OF ACCESS HOLES	X			
	FIT-UP OF FILLET WELDS • DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) • CLEANLINESS (CONDITION OF STEEL SURFACES) • TACKING (TACK WELD QUALITY AND LOCATION)	X			
	DURING WELDING:				AISC 360, TABLE N5.4-2 AISC 341, TABLE J6.2
	CONTROL AND HANDLING OF WELDING CONSUMABLES • PACKAGING • EXPOSURE CONTROL	X			
	NO WELDING OVER CRACKED TACK WELDS	X			
	ENVIRONMENTAL CONDITIONS • WIND SPEED WITHIN LIMITS • PRECIPITATION AND TEMPERATURE	X			
	WELDING PROCEDURE SPECIFICATIONS FOLLOWED • SETTINGS ON WELDING EQUIPMENT • TRAVEL SPEED • SELECTED WELDING MATERIALS • SHIELDING GAS TYPE/FLOW RATE • PREHEAT APPLIED • INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.) • PROPER POSITION (F, V, H, OH) • INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED (LATERAL CONNECTIONS ONLY)	X			
	WELDING TECHNIQUES • INTERPASS AND FINAL CLEANING • EACH PASS WITHIN PROFILE LIMITATIONS • EACH PASS MEETS QUALITY REQUIREMENTS	X			
	USE OF QUALIFIED WELDERS (FOR LATERAL CONNECTIONS)	X			
	AFTER WELDING:				AISC 360, TABLE N5.4-3 AISC 341, TABLE J6.3
	WELDS CLEANED	X			
	SIZE, LENGTH, AND LOCATION OF WELDS		X		
	WELDS MEET VISUAL ACCEPTANCE CRITERIA • CRACK PROHIBITION • WELD/BASE-METAL FUSION • CRATER CROSS SECTION • WELD PROFILES • WELD SIZE • UNDERCUT • POROSITY		X		
	ARC STRIKES		X		
	k-AREA		X		
	WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES		X		
	BACKING REMOVED AND WELD TABLES REMOVED (IF REQUIRED)		X		
	REPAIR ACTIVITIES		X		
	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER		X		
	NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER	X			
	PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS AS REQUIRED (LATERAL CONNECTIONS ONLY)		X		
	PRIOR TO BOLTING:				AISC 360, TABLE N5.6-1 AISC 641, TABLE J7.1
	MANUFACTURER'S CERTIFICATIONS FOR FASTENER MATERIALS	X			
	PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	X			
	CONNECTING ELEMENTS INCLUDING FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	X			
	PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED FOR FASTENER ASSEMBLIES AND METHODS USED	X			
	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	X			

STEEL CONSTRUCTION (CONTINUED)	INSPECTION TASKS	OBSERVE	PERFORM	COMMENTS	REFERENCES
	DURING BOLTING:				AISC 360, TABLE N5.6-2 AISC 341, TABLE J7.2
	FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	X			
	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING OPERATION	X			
	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	X			
	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC *SPECIFICATION,* PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES	X			
	AFTER BOLTING:				AISC 360, TABLE N5.6-3 AISC 341, TABLE J7.3
	DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS		X		
	OTHER INSPECTION TASKS:				
	PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS		X		AISC 360 SECTION N5.8
	FABRICATED STEEL OR ERECTED STEEL FRAME, AS APPLICABLE, TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS		X		
	REDUCED BEAM SECTION REQUIREMENTS, IF APPLICABLE • CONTOUR AND FINISH • DIMENSIONAL TOLERANCE		X		AISC 341 TABLE J8.1
	PROTECTED ZONE – NO HOLES AND UNAPPROVED ATTACHMENTS MADE BY FABRICATOR OR ERECTOR, AS APPLICABLE		X		
	NONDESTRUCTIVE TESTING OF WELDED JOINTS:			SPECIAL INSPECTIONS IN THIS SECTION **MAY BE** WAIVED WHERE FABRICATION IS PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5 **AND WITH THE APPROVAL OF THE BUILDING OFFICIAL.** SEE AISC 360 SECTION N5 FOR ULTRASONIC TESTING RATE	AISC 360 SECTION N5
	FOR RISK CATEGORY III AND IV STRUCTURES ALL COMPLETE-JOINT-PENETRATION WELDS, T- AND CORNER JOINTS, IN MATERIAL 5/16" OR GREATER		X		
	FOR RISK CATEGORY II STRUCTURES 10% OF ALL COMPLETE-JOINT-PENETRATION WELDS, T- AND CORNER JOINTS, IN MATERIAL 5/16" OR GREATER		X		

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL	MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK: A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS		X		AWS D1.3 AWS D1.4
	B. MANUFACTURER'S CERTIFIED TEST REPORTS		X		
	INSPECTION OF WELDING A. COLD-FORM STEEL DECK WELDS B. OPEN WEB STEEL JOISTS & JOIST GIRDERS 1. END CONNECTIONS - WELDING OR BOLTED 2. BRIDGING - HORIZONTAL OR DIAGONAL a. STANDARD BRIDGING b. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1	X	X X X X		AWS D1.3 AWS D1.4 IBC 1705.2.3 SJI SPECIFICATIONS LISTED IN SECTION 2207.1 SJI SPECIFICATIONS LISTED IN SECTION 2207.1
CONCRETE	INSPECT REINFORCEMENT AND VERIFY PLACEMENT		X	SPECIAL INSPECTIONS NOT REQUIRED FOR THE FOLLOWING CONDITIONS: NON-STRUCTURAL SLAB ON GRADE CONCRETE FOUNDATION WALLS WITH F'c ≤ 2500 PSI ISOLATED SPREAD FOOTINGS FOR BUILDINGS THREE-STORIES AND LESS ABOVE GRADE PLANE CONTINUOUS FOOTINGS SUPPORTING WALLS OF THREE-STORIES AND LESS ABOVE GRADE PLANE WHERE WALLS ARE LIGHT-FRAME CONSTRUCTION AND STRUCTURAL DESIGN IS BASED ON F'c ≤ 2500 PSI	ACI 318: CH 20, 25.2, 25.3, 26.6-1 TO 26.6-3, IBC 1908.4
	ANCHORS CAST IN CONCRETE-PRIOR TO AND DURING PLACEMENT OF CONCRETE		X		ACI 318: 17.8.2 AISC 360 SECTION N7
	VERIFY USE OF REQUIRED DESIGN MIX		X		ACI 318, CH 19
	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X			ASTM C172, C31 ACI 318: 26.4, 26.12 IBC 1908.10
	CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION	X			ACI 318: 26.5 IBC 1908.6, 1908.7, 1908.8
	MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X		ACI 318: 26.5.3 TO 26.5.5 IBC 1908.9
	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (MECHANICAL ANCHORS INSTALLED IN ANY DIRECTION AND ADHESIVE ANCHORS INSTALLED DOWNWARD)		X	PERIODIC INSPECTION TO INCLUDE A QUANTITY OF 10% WITH A MINIMUM OF (5) ANCHORS INSPECTED PER INSTALLER ON A DAILY BASIS.	ACI 318: 17.8.2 MFR EVAL REPORT MFR PUBLISHED INSTALLATION INSTRUCTIONS
	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (ADHESIVE ANCHORS INSTALLED HORIZONTAL OR UPWARDLY INCLINED)	X			ACI 318: 17.8.2 MFR EVAL REPORT MFR PUBLISHED INSTALLATION INSTRUCTIONS
	VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		X		ACI 318: 26.11.2
	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X		ACI 318: 26.11.1.2(b)
	MATERIAL VERIFICATION OF REINFORCEMENT STEEL FOR ASTM A615 REINFORCING		X	MANUFACTURER SHALL PROVIDE MILL TEST REPORTS. CONTINUOUS INSPECTION FOR ALL WELDS GREATER THAN 5/16" FILLET. PERIODIC INSPECTION FOR FILLET WELD 5/16" AND SMALLER	ACI 318: 26.6.4 AWS D1.4 IBC 1705.3.1
	TESTING OF MATERIALS		X		IBC 1705.3.2
WOOD FRAMING	DIAPHRAGM NAILING		X	SPECIAL INSPECTION NOT REQUIRED FOR FASTENER SPACING > 4" O.C.	IBC 1705.5, 1705.12.1, 1705.13.2
	NAILING, BOLTING, AND ANCHORAGE OF COMPONENTS THAT ARE PART OF DRAG STRUTS, BRACES AND HOLD-DOWNS THAT ARE PART OF THE SEISMIC RESISTING SYSTEM		X		IBC 1705.12.1, 1705.13.2
	SCREWS CONNECTING CLT PANELS TO SUPPORTING FRAMING		X	VERIFY SCREW MAKE, DIAMETER LENGTH AND SPACING	
	BOLTING AND CONNECTIONS OF TIMBER BEAMS AND COLUMNS		X	VERIFY FIT UP, BOLT DIAMETER, AND LIMITATION ON OVERCUTS	

ISLAND COUNTY
Reviewed For
2021 IBC
Code Compliance
07/18/2025
Brian Boyle

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5491 MAXWELTON RD
LANGLEY, WA 98260

South Whidbey Parks & Recreation District

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:

GENERAL NOTES

SCALE: 12" = 1'-0"
DRAWN: DLM
CHECKED: CAJ
PROJECT NO: 2022021.000

SHEET: S1.2

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STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES
MASS TIMBER	INSPECT ERECTION OF MASS TIMBER CONSTRUCTION INCLUDING COLUMNS, BEAMS, AND PANELS FOR FIT UP AND LIMITATIONS ON CUTS.		X		IBC 1705.5.3
	THREADED FASTENERS A. VERIFY USE OF PROPER INSTALLATION EQUIPMENT B. VERIFY USE OF PRE-DRILLED HOLES WHERE REQUIRED C. INSPECT SCREWS, INCLUDING DIAMETER, LENGTH, HEAD TYPE, SPACING INSTALLATION ANGLE AND DEPTH D. ADHESIVE ANCHORS	 X	 X X X		
	BOLTED CONNECTIONS		X		
	CONCEALED CONNECTIONS		X		
	DIAPHRAGM NAILING AT MASS TIMBER PANEL SPLINES		X		IBC 1705.11.1, 1705.12.2, 1705.5
	DIAPHRAGM STRAPS, DRAG STRUTS, BRACES, AND OTHER PARTS OF THE SEISMIC FORCE RESISTING SYSTEM		X		IBC 1705.11.1, 1705.12.2
	INSPECT SEALANT AND ADHESIVES		X	NEED OF SEALANTS AND ADHESIVES REQUIRED BY IBC 703.7	IBC 1705.20
COLD-FORMED STEEL FRAMING	SCREW ATTACHMENT, WELDING, BOLTING, ANCHORING AND FASTENING OF ELEMENTS OF SEISMIC RESISTING SYSTEM INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLDOWNS		X	NOT REQUIRED WHERE SHEATHING IS GYPSUM BOARD OR FIBERBOARD OR WHEN THE SHEATHING IS WOOD STRUCTURAL PANEL OR STEEL SHEETS ON (1) SIDE AND WITH SCREWS SPACED GREATER THAN 4" O.C.	IBC 1705..12.2, 1705.13.3 AWS D1.3
	EXTERIOR WALLS		X		IBC 1705.11.3, 1705.12.5
SUSPENDED CEILINGS	ANCHORAGE AND SEISMIC BRACING		X		
PIPING SYSTEMS AND MECHANICAL UNITS CONTAINING HAZARDOUS MATERIALS	ANCHORAGE AND BRACING OF EQUIPMENT TO STRUCTURE		X		IBC 1705.13.6
VIBRATION ISOLATION SYSTEMS	INSTALLATION OF SYSTEMS REQUIRING ≤ 1/4 INCH CLEARANCE BETWEEN EQUIPMENT SUPPORT FRAME AND RESTRAINT		X		IBC 1705.13.6, 1705.13.8

TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.

STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH IBC 1704.6. STRUCTURAL OBSERVATION SHALL BE PERFORMED AS FOLLOWS:

- » PERIODIC VISUAL OBSERVATION OF STRUCTURAL SYSTEMS FOR GENERAL CONFORMANCE TO CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES.
- » REVIEW OF TESTING AND INSPECTION REPORTS.
- » REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND SHALL BE DISTRIBUTED TO ARCHITECT.

GENERAL CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

ABBREVIATION LIST			
@	AT	HDR	HEADER
A.B.	ANCHOR BOLT	HGR	HANGER
ADD'L	ADDITIONAL	HORIZ.	HORIZONTAL
A.F.F.	ABOVE FINISH FLOOR	HSS	HOLLOW STRUCTURAL SECTION
ALT.	ALTERNATE	HT	HEIGHT
ARCH.	ARCHITECTURAL	INT.	INTERIOR
BLD'G	BUILDING	JST	JOIST
BLK'G	BLOCKING	JT	JOINT
BM	BEAM	L	ANGLE
B.O.F.	BOTTOM OF FOOTING	L.F.R.S.	LATERAL FORCE-RESISTING SYSTEM
BOT.	BOTTOM	L.L.	LIVE LOAD
BRB	BUCKLING RESTRAINED BRACE	LLH	LONG LEG HORIZONTAL
BRG	BEARING	LLV	LONG LEG VERTICAL
BTWN	BETWEEN	LOC.	LOCATION
B.U.	BUILT UP	LSL	LAMINATED STRAND LUMBER
(C=)	CAMBER	LVL	LAMINATED VENEER LUMBER
CANT.	CANTILEVER	MAX.	MAXIMUM
CFS	COLD-FORMED STEEL	M.B.	MACHINE BOLT
C.J.	CONTROL/CONSTRUCTION JOINT	MECH.	MECHANICAL
℄	CENTERLINE	MEZZ.	MEZZANINE
CLR.	CLEARANCE	MFR	MANUFACTURER
CLT	CROSS-LAMINATED TIMBER	MIN.	MINIMUM
CMU	CONCRETE MASONRY UNIT	MISC.	MISCELLANEOUS
COL.	COLUMN	MTL	METAL
CONC.	CONCRETE	MT SCREW	MASS TIMBER SCREW
CONN.	CONNECTION	N.F.	NEAR FACE
CONST.	CONSTRUCTION	N.S.	NEAR SIDE
CONT.	CONTINUOUS	NTS	NOT TO SCALE
CONTR.	CONTRACTOR	O.C.	ON CENTER
COORD.	COORDINATE	OPN'G	OPENING
C.P.	COMPLETE PENETRATION	OPP.	OPPOSITE
CTR'D	CENTERED	P.A.F.	POWDER ACTUATED FASTENER
C.Y.	CUBIC YARD	PERP.	PERPENDICULAR
DBL.	DOUBLE	PL	PLATE
DCW	DEMAND CRITICAL WELD	P.P.	PARTIAL PENETRATION
D.F.	DOUGLAS FIR	P.P.T.	PRESERVATIVE PRESSURE TREATED
DIA. OR ⌀	DIAMETER	P.S.F.	POUNDS PER SQUARE FOOT
DIAG.	DIAGONAL	PSL	PARALLAM
DIM.	DIMENSION	P.T.	POST TENSION
D.L.	DEAD LOAD	PW.	PLYWOOD
DLT	DOWEL-LAMINATED TIMBER	REINF.	REINFORCEMENT
DWG	DRAWING	REQ'D	REQUIRED
DWL	DOWEL	SCHED.	SCHEDULE
(E)	EXISTING	SCL	STRUCTURAL COMPOSITE LUMBER
EA.	EACH	SHT'G	SHEATHING
E.F.	EACH FACE	SIM.	SIMILAR
EL.	ELEVATION	S.O.G.	SLAB ON GRADE
ELEV.	ELEVATOR	SQ.	SQUARE
ENGR	ENGINEER	STD	STANDARD
EQ.	EQUAL	STIFF.	STIFFENER
E.W.	EACH WAY	STL	STEEL
EXP.	EXPANSION	STRUCT.	STRUCTURAL
EXT.	EXTERIOR	T&B	TOP & BOTTOM
FDN	FOUNDATION	T&G	TONGUE AND GROOVE
F.F.	FAR FACE	THR'D	THREADED
FLR	FLOOR	T.O.F.	TOP OF FOOTING
F.O.M.	FACE OF MASONRY	T.O.S.	TOP OF STEEL
F.O.S.	FACE OF STUD	TRT'D	TREATED
FRM'G	FRAMING	TYP.	TYPICAL
F.R.T.	FIRE RETARDANT TREATED	U.N.O.	UNLESS NOTED OTHERWISE
F.S.	FAR SIDE	U.T.	ULTRASONIC TESTED
FTG	FOOTING	VERT.	VERTICAL
GA.	GAGE/GAUGE	W/	WITH
GALV.	GALVANIZED	W.P.	WORK POINT
GL.	GLULAM	WT	WEIGHT
GR.	GRADE	W.W.R.	WELDED WIRE REINFORCING
GWB	GYPSUM WALL BOARD		

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CONTENTS:
GENERAL NOTES

SCALE: 12" = 1'-0"
DRAWN: Author
CHECKED: CAJ
PROJECT NO: 2022021.000

SHEET:
S1.3

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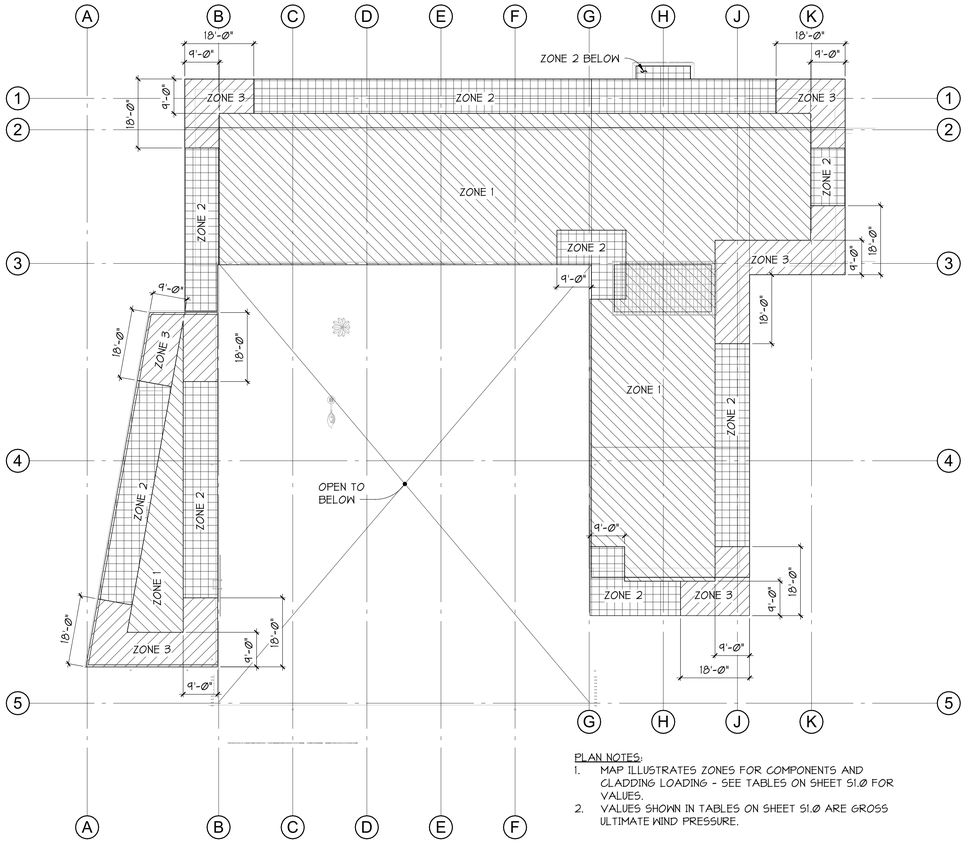
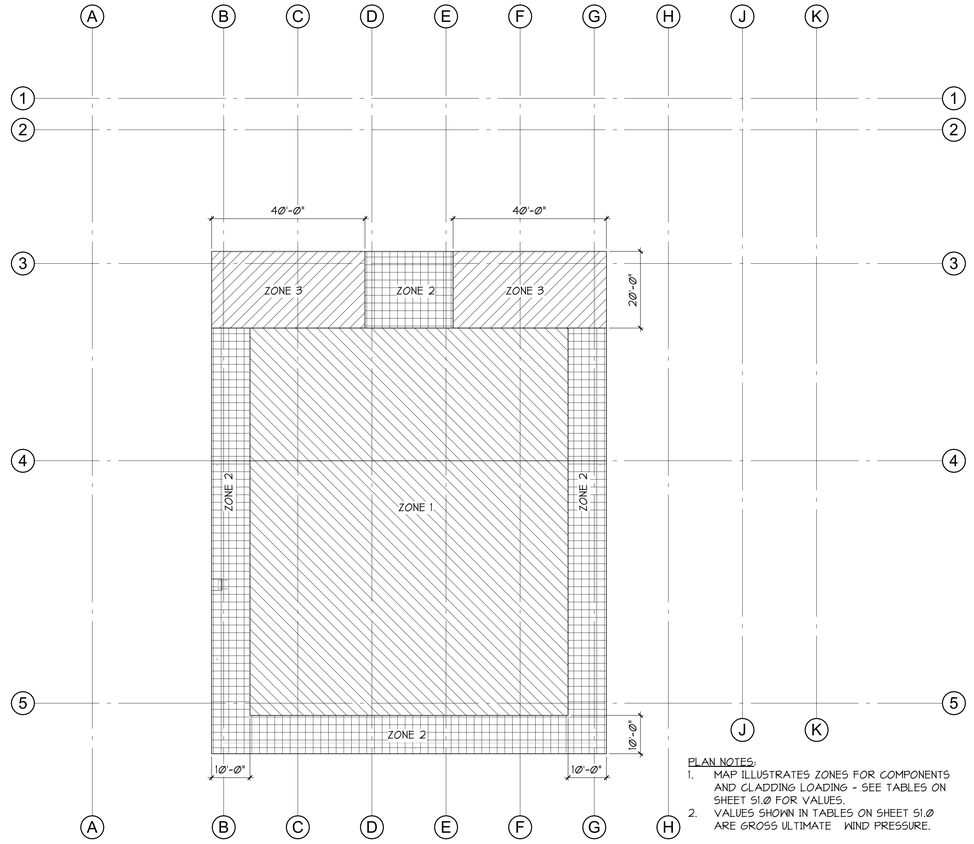


PLAN NOTES:
1. MAP ILLUSTRATES ZONES FOR COMPONENTS AND CLADDING LOADING - SEE TABLES ON SHEET S1.Ø FOR VALUES.
2. VALUES SHOWN IN TABLES ON SHEET S1.Ø ARE GROSS ULTIMATE WIND PRESSURE.

NORTH

1 S1.5 LOW ROOF WIND ZONES PLAN

1/16" = 1'-Ø"



PLAN NOTES:
1. MAP ILLUSTRATES ZONES FOR COMPONENTS AND CLADDING LOADING - SEE TABLES ON SHEET S1.Ø FOR VALUES.
2. VALUES SHOWN IN TABLES ON SHEET S1.Ø ARE GROSS ULTIMATE WIND PRESSURE.

NORTH

2 S1.5 HIGH ROOF WIND ZONES PLAN

1/16" = 1'-Ø"

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CONTENTS:

WIND PRESSURE ROOF ZONES

SCALE: 1/16" = 1'-0"
DRAWN: DEH
CHECKED: CAJ
PROJECT NO: 2022021.000

SHEET:

S1.5

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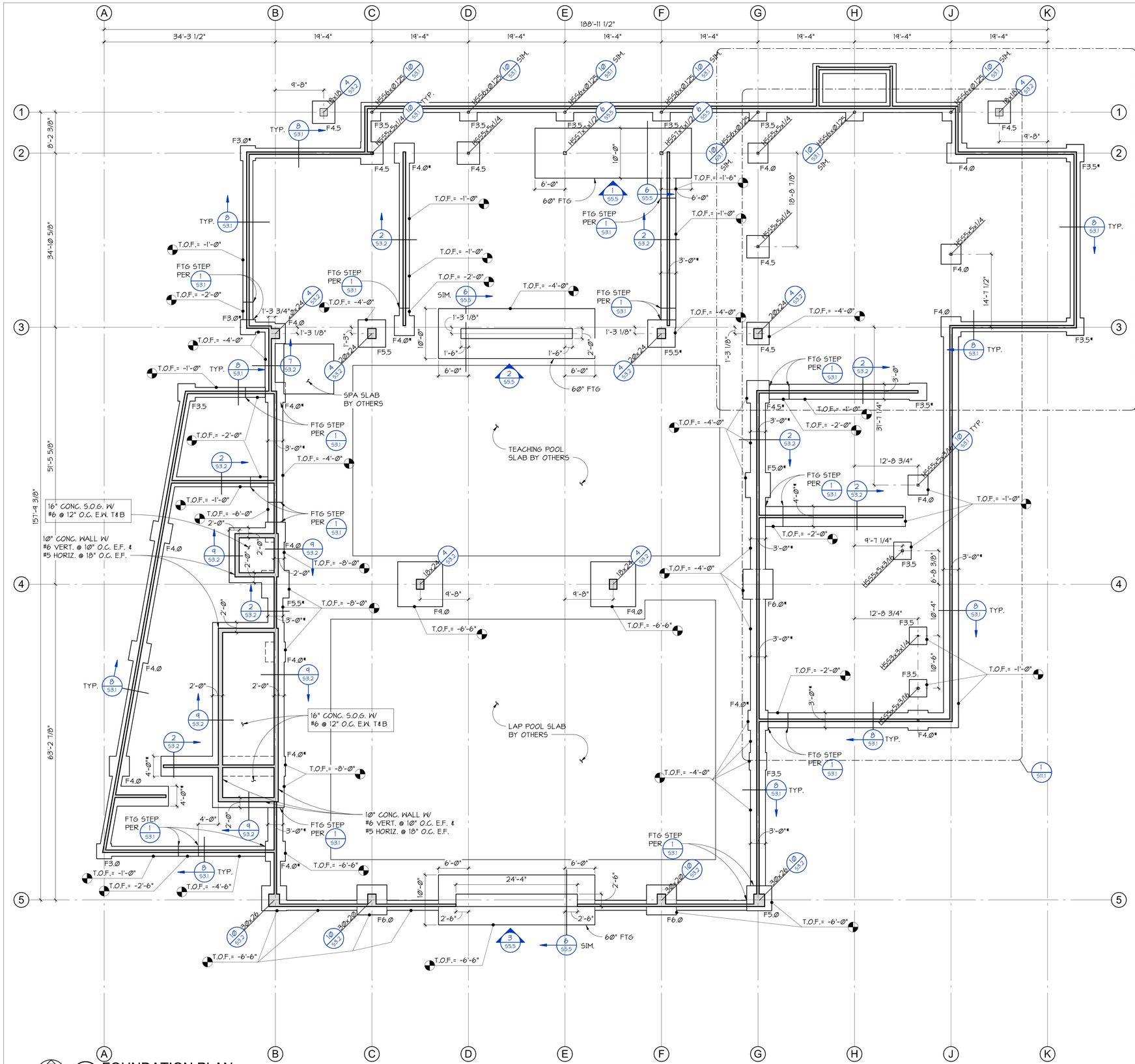

FOUNDATION PLAN

NORTH

1 / 52.0 — 1/8" = 1'-0"

FOUNDATION NOTES

1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. REFERENCE ELEVATION 205.00' = 0'-0".
3. TOP OF SLAB = 0'-0" UNLESS NOTED OTHERWISE.
4. TOP OF FOOTING ELEVATIONS = -1'-0" UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.
5. INDICATES CONCRETE STEM WALL. FOR TOP OF WALL REQUIREMENTS AND CALLOUTS - SEE GRADE LEVEL FRAMING PLANS.
6. INDICATES CONTINUOUS CONCRETE WALL FOOTING. FOR TYPICAL FOOTING AND STEM WALL DETAILS - SEE SHEETS S3.1. FOOTING WIDTH ("W") = 2'-0" UNLESS NOTED OTHERWISE ON PLAN. CENTER FOOTINGS ON CONCRETE STEM WALL. EXTEND FOOTINGS 6" MINIMUM PAST ENDS OF WALL UNLESS NOTED OTHERWISE.
7. "F__" INDICATES CONCRETE SPREAD FOOTING - FOR SCHEDULE SEE 9/S3.1.
8. HSS5x5x3/8 W10x45 — INDICATES STEEL COLUMNS ORIGINATING AT FOUNDATION LEVEL. ALL COLUMNS ARE CONTINUOUS TO ROOF UNLESS NOTED OTHERWISE. FOR TYPICAL ANCHOR ROD/BOLT DETAIL - SEE 10/S3.1.
9. FOR TYPICAL FOUNDATION DETAILS - SEE SHEETS S3.0 AND S3.1.
10. FOR TYPICAL PLACEMENT OF STEM WALL REINFORCEMENT, STEPS IN FOOTING, AND FOUNDATION CONSTRUCTION JOINTS - SEE DETAILS 4/S3.1, 1/S3.1, AND 6/S3.1 RESPECTIVELY.
11. 18"x18" — CONCRETE PEDESTAL PER DETAIL 4/S3.2 UNLESS NOTED OTHERWISE.

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CONTENTS:
FOUNDATION PLAN

SCALE:	1/8" = 1'-0"
DRAWN:	DLM
CHECKED:	CAJ
PROJECT NO:	2022021.000

SHEET:
S2.0

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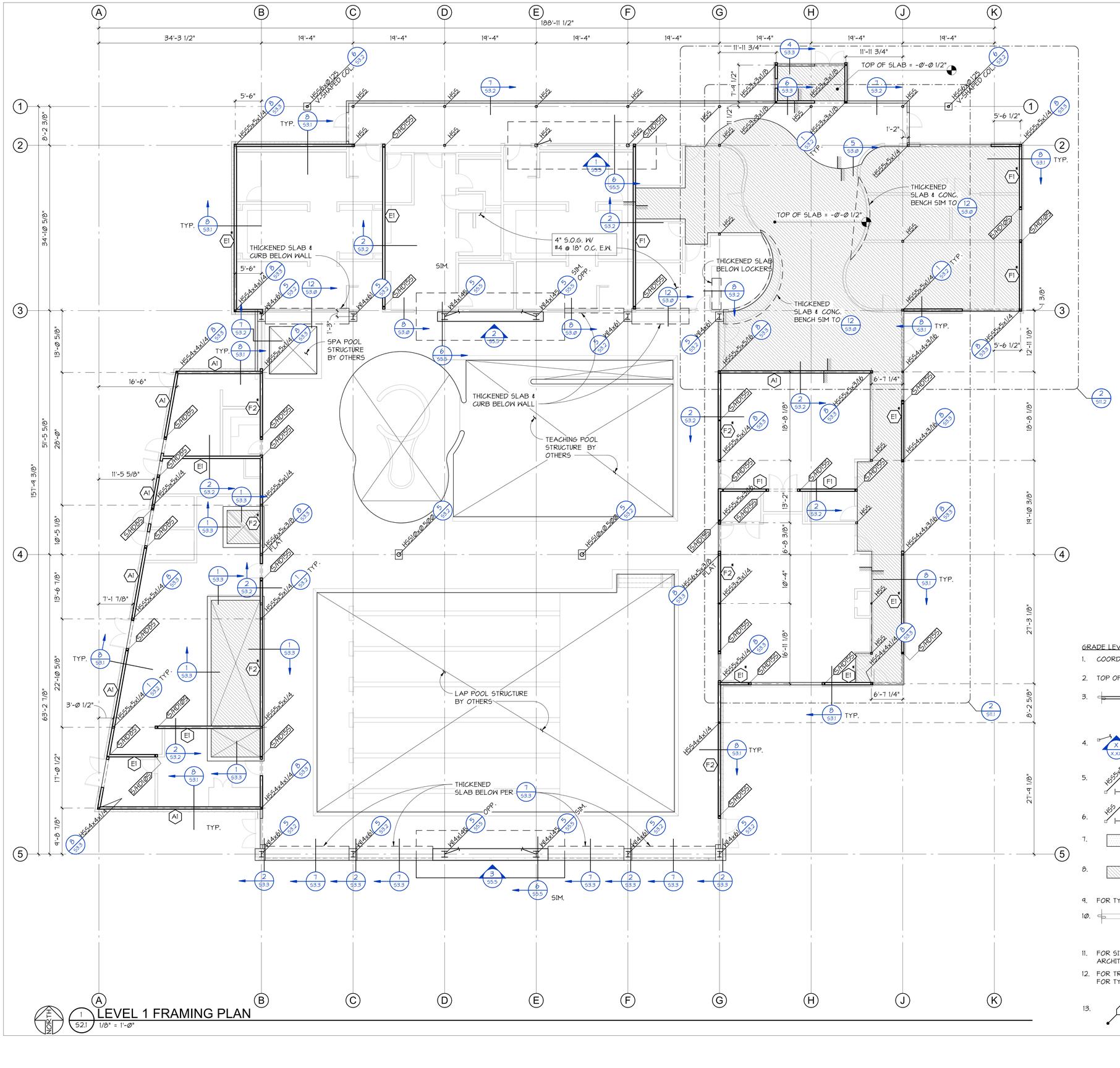

LEVEL 1 FRAMING PLAN

1/8" = 1'-Ø"

NORTH

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GRADE LEVEL FRAMING NOTES

1. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
2. TOP OF SLAB = Ø'-Ø" UNLESS NOTED OTHERWISE.
3. INDICATES 6ØØ5162-54 AT 16" ON CENTER EXTERIOR METAL STUD WALL UNLESS NOTED OTHERWISE IN PLANS OR DETAILS. FOR SCHEDULE - SEE 2/S7.Ø OR 4/S7.Ø. FOR TYPICAL METAL STUD WALL DETAILS - SEE SHEETS S7.Ø, S7.1, AND S7.2.
4. INDICATES BRACED FRAME. FOR ELEVATIONS, BRACE SIZES, AND DETAIL CALLOUTS - SEE SHEET S5.5.
5. INDICATES STEEL COLUMNS ORIGINATING AT SLAB LEVEL. ALL COLUMNS ARE CONTINUOUS TO ROOF UNLESS NOTED OTHERWISE. FOR TYPICAL ANCHOR ROD/BOLT DETAIL - SEE 1/S3.2.
6. INDICATES TYPE OF CONTINUOUS COLUMN FROM LEVEL BELOW AND CONTINUING ON TO LEVEL ABOVE.
7. INDICATES MECHANICAL UNIT AND MAXIUM WEIGHT - SEE MECHANICAL FOR HOUSEKEEPING PADS. FOR TYPICAL REINFORCING DETAIL FOR PADS - SEE 1Ø/S3.Ø.
8. INDICATES SLOPED AND/OR DEPRESSED SLAB-ON-GRADE - SEE ARCHITECTURAL FOR EXACT LOCATIONS. FOR TYPICAL REINFORCING - SEE DETAILS 5/S3.Ø AND 6/S3.Ø.
9. FOR TYPICAL CONCRETE SLAB-ON-GRADE DETAILS - SEE SHEET S3.Ø.
10. INDICATES NON-STRUCTURAL STUD WALLS. ALL WALLS ARE NOT SHOWN. FOR LOCATION - SEE ARCHITECTURAL. FOR BRACING AT TOPS OF WALLS - SEE SHEET S7.2. FOR SCHEDULE AND TYPICAL FRAMING - SEE SHEETS S7.Ø AND S7.1.
11. FOR SITE STRUCTURES INCLUDING CANOPIES, WALKWAYS, SITE SIGNS, ETC. - SEE ARCHITECTURAL. SEE DETAIL 11/S3.2 FOR TYPICAL RETAINING WALL.
12. FOR TRENCHES IN SLAB-ON-GRADE - SEE ARCHITECTURAL/MECHANICAL. FOR TYPICAL REINFORCING - SEE 11/S3.Ø.
13. SHEAR WALL HOLDOWN - SEE DETAIL 2/S7.2.

CONTENTS:

LEVEL 1 FRAMING PLAN

SCALE:	1/8" = 1'-0"
DRAWN:	DLM
CHECKED:	CAJ
PROJECT NO:	2022021.000

SHEET:

S2.1

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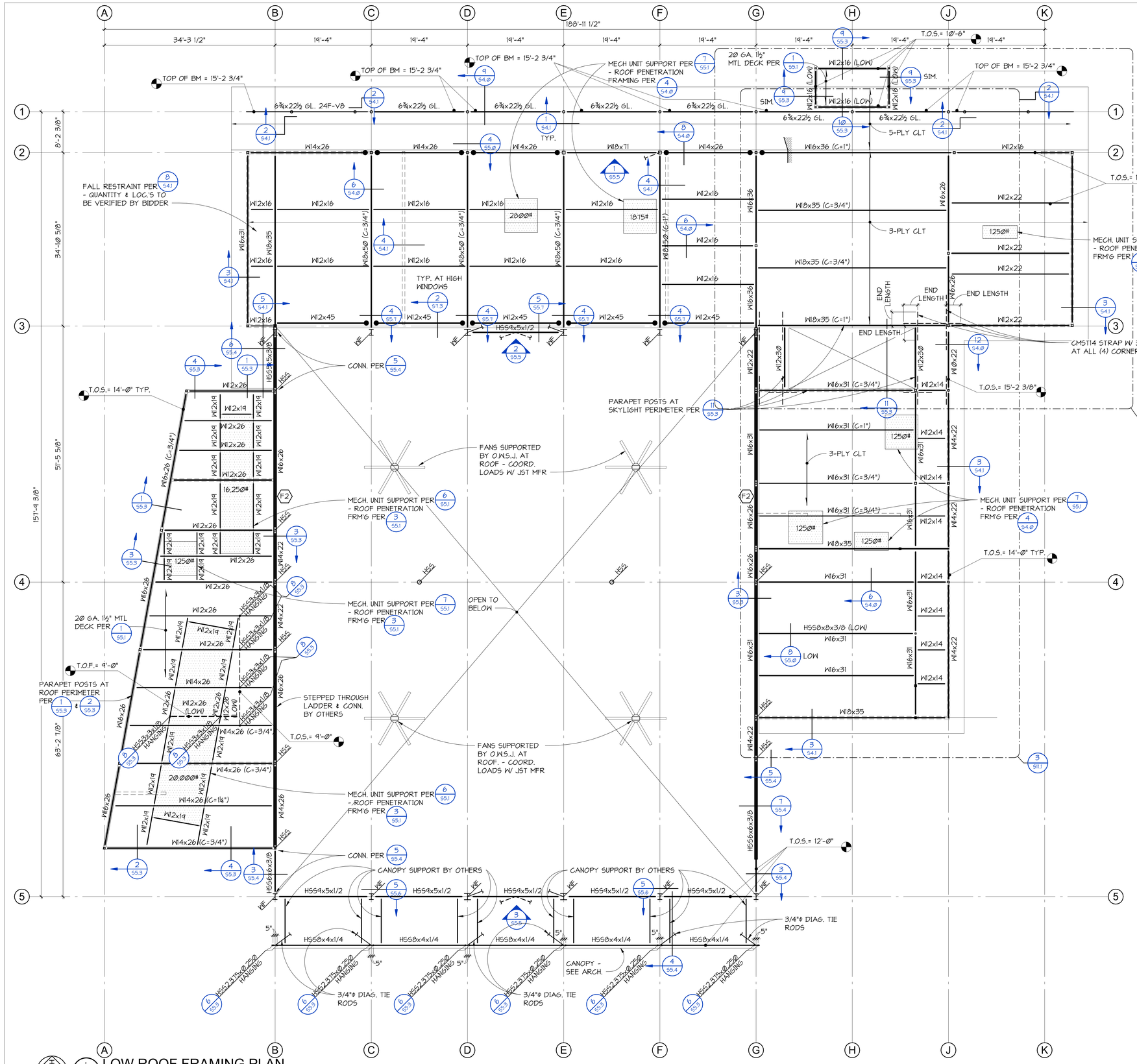

NORTH

1 S2.3 LOW ROOF FRAMING PLAN

1/8" = 1'-0"

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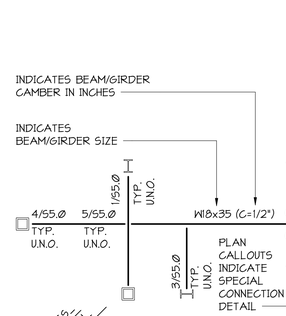
ROOF FRAMING NOTES

1. INDICATES LIGHT GAUGE METAL STUD WALL EXTENDING ABOVE ROOF TO FORM A PARAPET.
2. INDICATES WALL BELOW EXTENDING TO ROOF STRUCTURE.
3. 1500# INDICATES MECHANICAL UNIT WITH MAXIMUM WEIGHT SHOWN. FOR TYPICAL SUPPORT DETAIL - SEE 3/55.1. FOR CLARITY - ONLY LARGE (OVER 600 POUNDS) UNITS ARE SHOWN. FOR SUPPORT FRAMING AT MECHANICAL UNITS AND FANS (LESS THAN 75 POUNDS) - SEE 2/55.1. SEE MECHANICAL FOR LOCATIONS.
4. INDICATES DIRECTION OF SPAN FOR METAL DECK OR CROSS-LAMINATED TIMBER PANELS. FOR TYPICAL METAL DECK - SEE SHEET 55.1. FOR TYPICAL CROSS-LAMINATED TIMBER PANELS - SEE SHEET 54.0.
5. INDICATES PENETRATION IN ROOF. NOT ALL OPENINGS ARE SHOWN. FOR ADDITIONAL MISCELLANEOUS OPENINGS IN ROOF - SEE ARCHITECTURAL AND MECHANICAL DRAWINGS. SEE 3/55.1 FOR TYPICAL SUPPORT AROUND OPENINGS.
6. FOR TYPICAL STEEL CONNECTION DETAILS - SEE SHEET 55.0. SEE BRACED FRAME ELEVATIONS FOR CONNECTION CALLOUTS. ALL MEMBERS AND CONNECTIONS THAT ARE PART OF A BRACED FRAME SHALL BE CONSIDERED PART OF THE LATERAL FORCE-RESISTING SYSTEM.



11. HSS, VL — INDICATES TYPE OF CONTINUOUS COLUMN FROM LEVEL BELOW AND CONTINUING ON TO LEVEL ABOVE.
12. INDICATES STEEL COLUMN DISCONTINUING AT ROOF LEVEL.
13. SEE ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS/ORNAMENTAL (NON-STRUCTURAL) STEEL THROUGHOUT THE BUILDING.
14. STEEL MEMBERS ARE EQUALLY SPACED BETWEEN DIMENSION POINTS UNLESS NOTED OTHERWISE.
15. X, X.XX — INDICATES BRACED FRAME - SEE SHEET 55.5 FOR ELEVATIONS AND DETAIL CALLOUTS. ASSOCIATED MEMBERS AND CONNECTIONS ARE PART OF THE SEISMIC FORCE-RESISTING SYSTEM.

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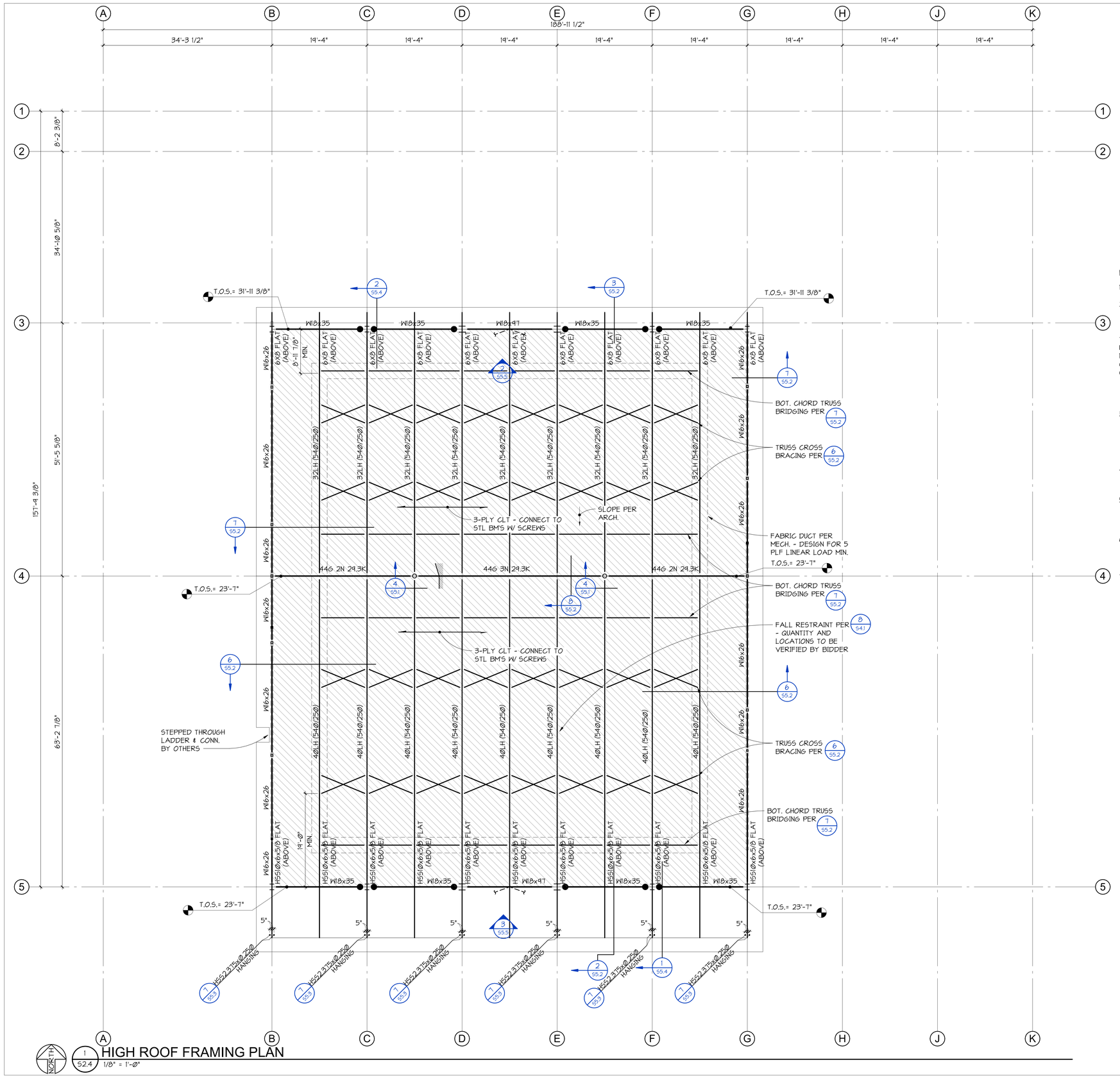
LOW ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"
DRAWN: DLM
CHECKED: CAJ
PROJECT NO: 2022021.000

SHEET: S2.3



NORTH

1 S2.4 HIGH ROOF FRAMING PLAN

1/8" = 1'-0"

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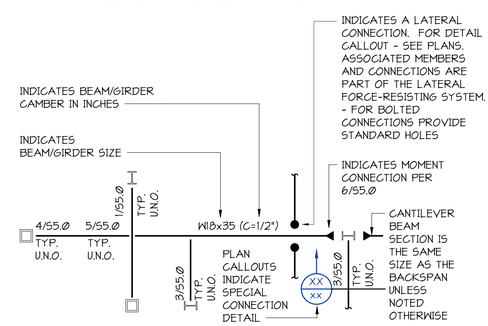
ROOF FRAMING NOTES

1. INDICATES WALL BELOW EXTENDING TO ROOF STRUCTURE.
2. "24LH (400/200) (C=_")" TYPICAL UNLESS NOTED OTHERWISE ON PLANS — "24" INDICATES DEPTH OF JOIST, "LH" INDICATES TYPE OF STEEL JOIST, "400" INDICATES TOTAL ASD LOAD PER LINEAL FOOT AND "200" INDICATES SNOW LOAD PER LINEAL FOOT. BASE LINEAL LOADS ARE 400/200 UNLESS NOTED OTHERWISE. SNOW LOAD DEFLECTION OF THE JOIST SHALL NOT EXCEED 1/240 OF THE SPAN UNLESS NOTED OTHERWISE. "C=_" INDICATES MAXIMUM CAMBER ON A PARTICULAR JOIST. LOADS INDICATED ON DRAWINGS AND IN DETAILS ARE IN ADDITION TO THOSE NOTED ABOVE INCLUDING BRACING LOADS AND MECHANICAL UNIT LOADS.
3. 1500# INDICATES MECHANICAL UNIT WITH MAXIMUM WEIGHT SHOWN. FOR TYPICAL SUPPORT DETAIL - SEE 3/55.1. FOR CLARITY - ONLY LARGE (OVER 600 POUNDS) UNITS ARE SHOWN. FOR SUPPORT FRAMING AT MECHANICAL UNITS AND FANS (LESS THAN 75 POUNDS) - SEE 4/54.0. SEE MECHANICAL FOR LOCATIONS.
4. INDICATES DIRECTION OF SPAN FOR CROSS-LAMINATED TIMBER PANELS. FOR TYPICAL CROSS-LAMINATED TIMBER PANELS - SEE SHEET S4.0.
5. INDICATES PENETRATION IN ROOF. NOT ALL OPENINGS ARE SHOWN. FOR ADDITIONAL MISCELLANEOUS OPENINGS IN ROOF - SEE ARCHITECTURAL AND MECHANICAL DRAWINGS. SEE DETAILS 4/54.0 AND 3/55.1 FOR TYPICAL SUPPORT AROUND OPENINGS.
6. FOR MAXIMUM ALLOWABLE MISCELLANEOUS LOADS SUPPORTED FROM ROOF JOISTS - SEE 4/55.2. GENERAL CONTRACTOR SHALL COORDINATE MAIN SPRINKLER LINE SUPPORT LOCATIONS WITH JOIST MANUFACTURER PRIOR TO SHOP DRAWING SUBMITTAL TO DESIGN TEAM.
7. FOR TYPICAL STEEL CONNECTION DETAILS - SEE SHEET 55.0. SEE BRACED FRAME ELEVATIONS FOR CONNECTION CALLOUTS. ALL MEMBERS AND CONNECTIONS THAT ARE PART OF A BRACED FRAME SHALL BE CONSIDERED PART OF THE LATERAL FORCE-RESISTING SYSTEM.



8. INDICATES STEEL COLUMN DISCONTINUING AT ROOF LEVEL.
9. "40G 5N 18.4K" 40 INDICATES DEPTH OF JOIST GIRDER. 5 INDICATES NUMBER OF JOIST SPACES - SEE PLAN. 18.4 INDICATES TOTAL LOAD AT JOIST BEARINGS IN KIPS. **NOTE: LOADS DO NOT INCLUDE THE SELF WEIGHT OF THE GIRDER OR OTHER ADD LOADS SHOWN ON PLANS.**
10. JOIST BRIDGING IS NOT SHOWN ON ROOF FRAMING PLAN FOR CLARITY SINCE LAYOUTS AND SPACING VARY PER MANUFACTURER. FOR TYPICAL CONNECTIONS AT END OF BRIDGING ROWS - SEE SHEET 55.2. JOIST MANUFACTURER TO PROVIDE ALL BRIDGING AND ERECTION AIDS PER S.II.
11. INDICATES AREA OF STRUCTURE DESIGNED FOR SOLAR READINESS (5 POUNDS PER SQUARE FOOT MAXIMUM).
12. SEE ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS/ORNAMENTAL (NON-STRUCTURAL) STEEL THROUGHOUT THE BUILDING.
13. STEEL MEMBERS ARE EQUALLY SPACED BETWEEN DIMENSION POINTS UNLESS NOTED OTHERWISE.
14. FOR WIND UPLIFT MAP - SEE SHEET S1.5.
15. X X.XX INDICATES BRACED FRAME - SEE SHEET S5.5 FOR ELEVATIONS AND DETAIL CALLOUTS. ASSOCIATED MEMBERS AND CONNECTIONS ARE PART OF THE SEISMIC FORCE-RESISTING SYSTEM.

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HIGH ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"
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CHECKED: CAJ
PROJECT NO: 2022021.000

SHEET:

S2.4

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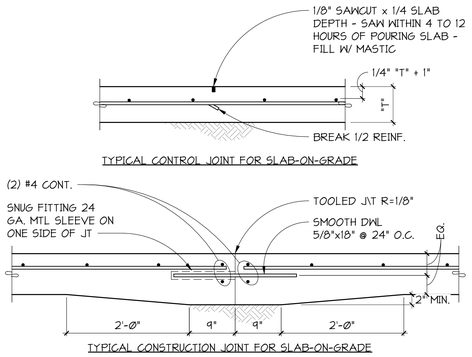

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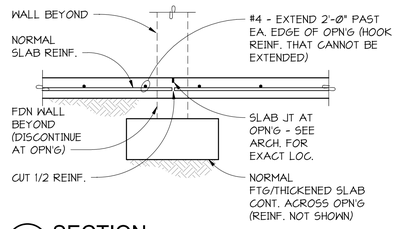

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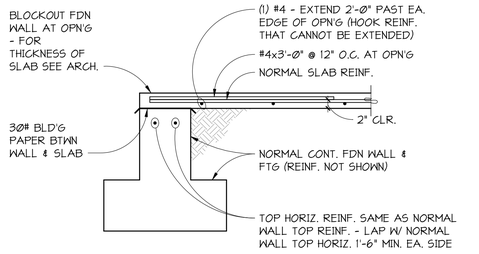

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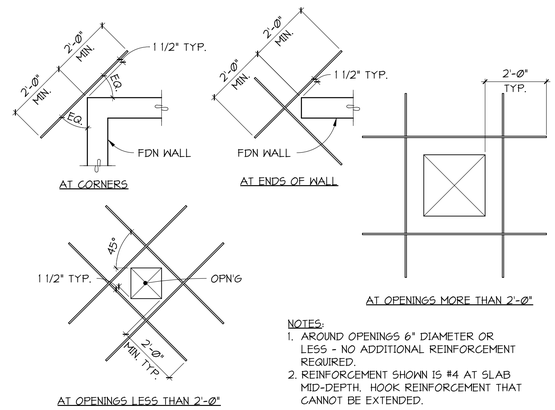

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5 53.Ø SECTION
NO SCALE

6 53.Ø SECTION
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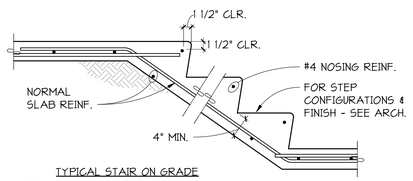

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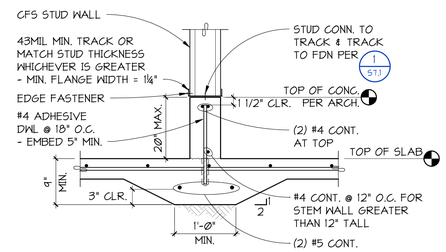

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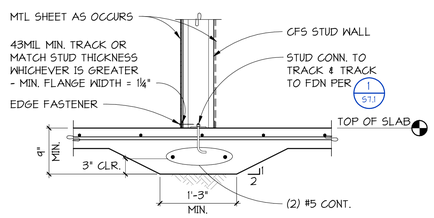

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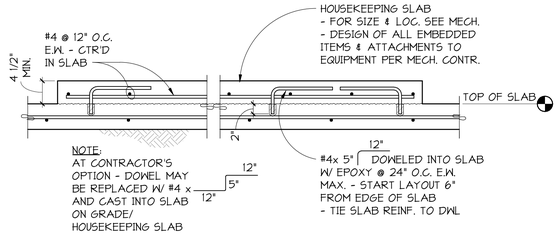
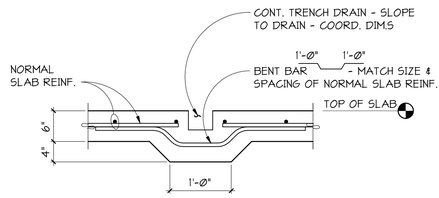
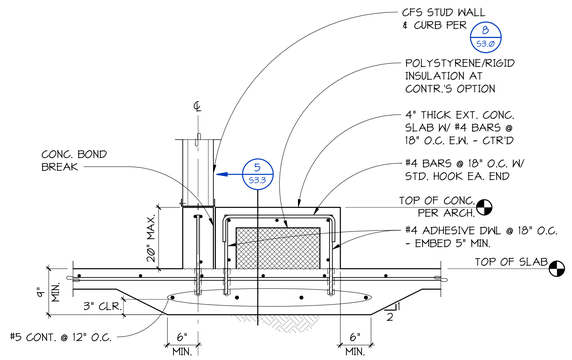


10 53.Ø SECTION
1" = 1'-Ø"



11 53.Ø SECTION
1" = 1'-Ø"



12 53.Ø SECTION
NO SCALE

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Reviewed For
2021 IBC
Code Compliance
07/18/2025
Brian Boyle

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LANGLEY, WA 98260

South Whidbey Parks & Recreation District

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:

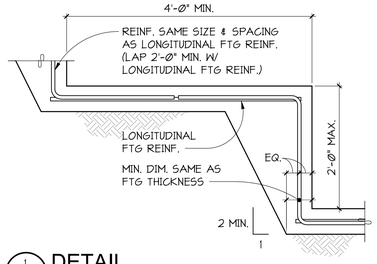
TYPICAL CONCRETE SLAB-ON-GRADE DETAILS

SCALE: As indicated
DRAWN: SMS
CHECKED: CAJ
PROJECT NO: 2022021.000

SHEET:

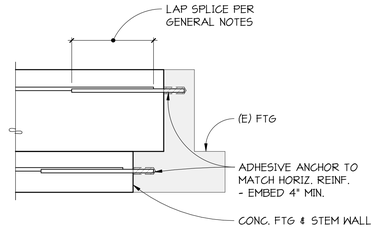
S3.0

C:_Revit Models\23247 SWAC R2024 (Central)_sswinery.rvt
5/23/2025 2:08:15 PM

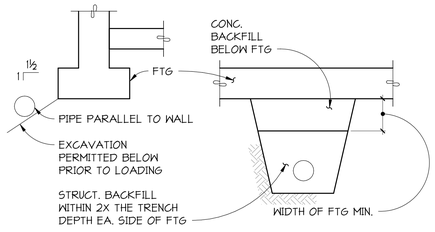


1 S3.1 **DETAIL**
NO SCALE

NOTE:
OBTAIN APPROVAL OF ENGINEER FOR USAGE OF DETAIL.



2 S3.1 **SECTION**
NO SCALE

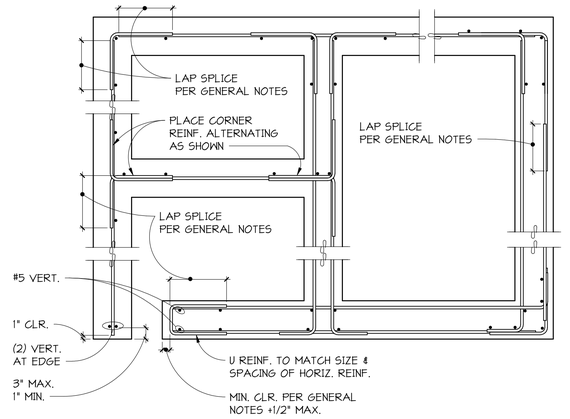


TYPICAL FOR PARALLEL PIPES ADJACENT TO FOOTINGS

TYPICAL FOR PERPENDICULAR PIPES UNDER FOOTINGS

NOTES:
1. FOUNDATIONS SHALL NOT BE LOADED PRIOR TO COMPLETING STRUCTURAL BACKFILL UNDER AND NEAR FOOTINGS.
2. CONCRETE BACKFILL SHALL BE USED UNDER FOOTINGS WHERE 95% COMPACTION CANNOT BE ACCOMPLISHED.
3. ALL STRUCTURAL BACKFILL NOTED SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY PER ASTM.
4. A PIPE SLEEVE SHALL BE PROVIDED FOR SHALLOW PIPES CAST IN CONCRETE.
5. PIPES SHALL NOT BE PLACED IN THE FOOTING WITHOUT SPECIFIC APPROVAL FROM THE ENGINEER.
6. FOR VARIATIONS CONTACT ENGINEER.

3 S3.1 **SECTION**
NO SCALE



NOTES:
1. VERTICAL REINFORCEMENT SHOWN IS ADDITIONAL IF NORMAL STEM WALL REINFORCEMENT IS NOT IN PROPER LOCATION.
2. CORNER REINFORCEMENT IS SAME SIZE AND SPACING AS HORIZONTAL REINFORCEMENT.
3. STANDARD HOOK MAY BE SUBSTITUTED FOR CORNER REINFORCEMENT- SEE NOTE #5.
4. REINFORCEMENT AT ALL CORNERS, ENDS, AND INTERSECTIONS OF WALLS SHALL BE PLACED IN ACCORDANCE WITH APPROPRIATE DETAIL SHOWN.
5. USE STANDARD HOOK FOR EMBEDMENT LESS THAN 24" PAST FACE OF WALL.

4 S3.1 **DETAIL**
NO SCALE

NOTE:
OBTAIN APPROVAL OF ENGINEER FOR LOCATION OF ANY OPENING THROUGH A CONCRETE WALL.

5 S3.1 **SECTION**
NO SCALE

TYPICAL AT VERTICAL WALL JOINTS

NOTE:
OBTAIN APPROVAL OF ENGINEER FOR LOCATION OF ANY CONSTRUCTION JOINT.

TYPICAL AT CONCRETE FOOTINGS

6 S3.1 **CONSTRUCTION JOINTS**
NO SCALE

WIDTH "W" (NOTE 4)	"T"	REINFORCEMENT "A" CONTINUOUS	REINFORCEMENT "B"
1'-6"	12"	(2) #5	---
2'-Ø"	12"	(2) #5	---
2'-6"	12"	(3) #5	#5 @ 14" O.C.
3'-Ø"	12"	(4) #5	#5 @ 14" O.C.
3'-6"	12"	(4) #5	#5 @ 14" O.C.
4'-Ø"	12"	(5) #5	#6 @ 18" O.C.
5'-Ø"	12"	(7) #5	#6 @ 18" O.C.

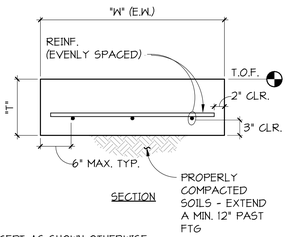
TYPICAL CONTINUOUS FOOTING

NOTES:
1. FOOTINGS SHALL BEAR ON UNDISTURBED OR COMPACTED MATERIAL PER GENERAL NOTES.
2. EXTEND FOOTINGS 6" MINIMUM PAST ENDS OF WALL UNLESS OTHERWISE NOTED.
3. WHERE FOOTINGS CHANGE WIDTHS LAP REINFORCEMENT "A", LAP SPLICE PER GENERAL NOTES. AT FOOTING INTERSECTIONS, PROVIDE STANDARD CORNER BARS WITH MINIMUM LAP SPLICE LENGTH PER GENERAL NOTES. LARGER REINFORCING SIZE AND AMOUNT GOVERNS.
4. FOR FOOTINGS MARKED WITH * PROVIDE REINFRCEMENT AT TOP AND BOTTOM.

7 S3.1 **SECTION**
NO SCALE

8 S3.1 **SECTION**
NO SCALE

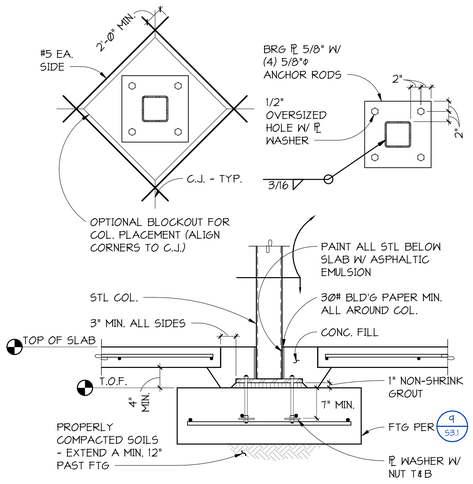
MARK	DIMENSIONS "W"	DIMENSIONS "T"	REINFORCEMENT EACH WAY
F3.Ø	3'-Ø"	12"	(4) #4
F3.5	3'-6"	12"	(5) #4
F4.Ø	4'-Ø"	12"	(4) #5
F4.5	4'-6"	12"	(4) #5
F5.Ø	5'-Ø"	12"	(5) #5
F5.5	5'-6"	12"	(5) #6
F6.Ø	6'-Ø"	14"	(6) #6
F7.Ø	7'-Ø"	16"	(7) #6
F8.Ø	8'-Ø"	16"	(8) #7
F9.Ø	9'-Ø"	18"	(8) #7



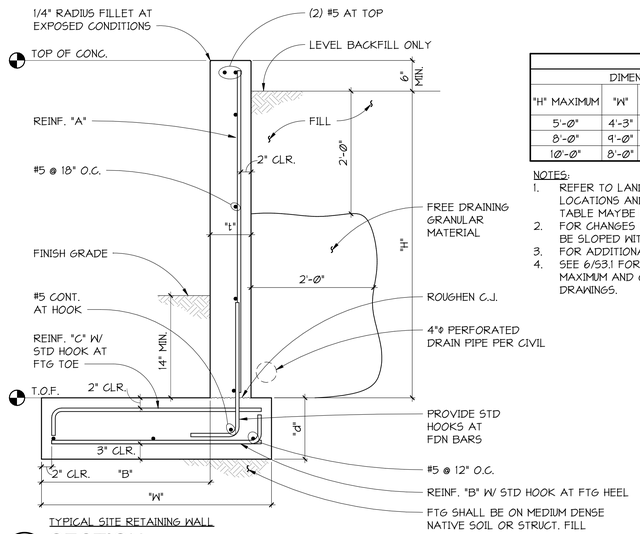
SECTION

NOTES:
1. CENTER ALL FOOTINGS ON COLUMN ABOVE EXCEPT AS SHOWN OTHERWISE.
2. FOOTINGS SHALL BEAR ON UNDISTURBED OR COMPACTED MATERIAL PER GENERAL NOTES.

9 S3.1 **SECTION**
NO SCALE



10 S3.1 **SECTION**
NO SCALE



TYPICAL SITE RETAINING WALL

DIMENSIONS AND REINFORCEMENT FOR RETAINING WALL							
DIMENSIONS					REINFORCING		
"H" MAXIMUM	"W"	"B"	"t"	"d"	REINFORCEMENT "A"	REINFORCEMENT "B"	REINFORCEMENT "C"
5'-Ø"	4'-3"	3'-3"	8"	12"	#5 @ 18" O.C.	#5 @ 12" O.C.	#5 @ 12" O.C.
8'-Ø"	9'-Ø"	6'-6"	8"	12"	#6 @ 12" O.C.	#6 @ 18" O.C.	#6 @ 18" O.C.
10'-Ø"	8'-Ø"	2'-6"	10"	12"	#6 @ 9" O.C.	#6 @ 18" O.C.	#6 @ 18" O.C.

NOTES:
1. REFER TO LANDSCAPE, CIVIL, SITE PLAN, AND ARCHITECTURAL DRAWINGS FOR WALL LOCATIONS AND WALL HEIGHT REQUIREMENTS. THE MAXIMUM "H" DIMENSION GIVEN IN THE TABLE MAYBE MEASURED DIFFERENTLY THAN OTHER CONSULTANTS DRAWINGS.
2. FOR CHANGES IN FOOTING ELEVATIONS REFER TO THE GRADING PLAN. FOOTING MAY BE SLOPED WITH LOWER GRADE, UP TO 10 HORIZONTAL TO 1 VERTICAL TO AVOID STEPS.
3. FOR ADDITIONAL REINFORCING AT CORNERS - SEE 4/S3.1.
4. SEE 6/S3.1 FOR TYPICAL CONTROL JOINT IN WALL. PLACE JOINTS AT 10'-0" ON CENTER MAXIMUM AND COORDINATE LOCATIONS WITH ARCHITECTURAL AND LANDSCAPE DRAWINGS.

11 S3.1 **SECTION**
1" = 1'-Ø"

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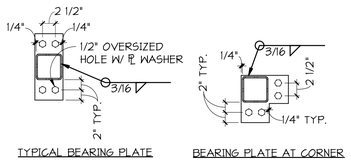
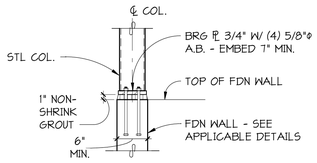


TYPICAL BEARING PLATE | BEARING PLATE AT CORNER



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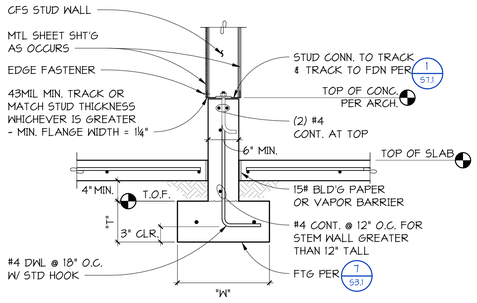
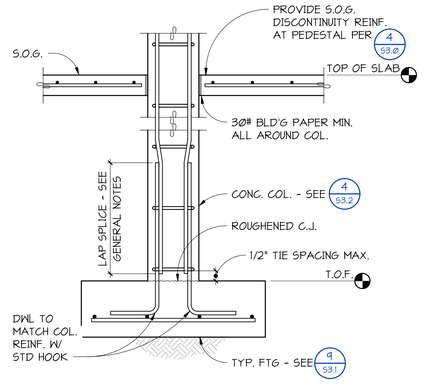


2 / S3.2 SECTION
1" = 1'-0"



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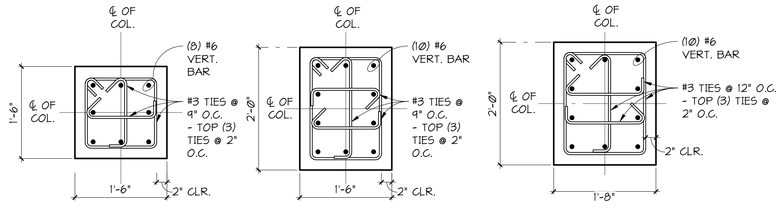
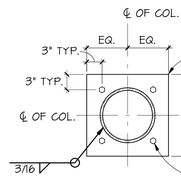
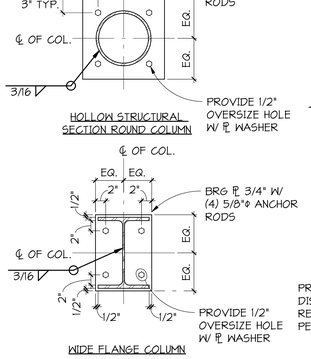


18"x18" SQUARE PLINTH | 18"x24" RECTANGULAR PLINTH | 20"x24" RECTANGULAR PLINTH

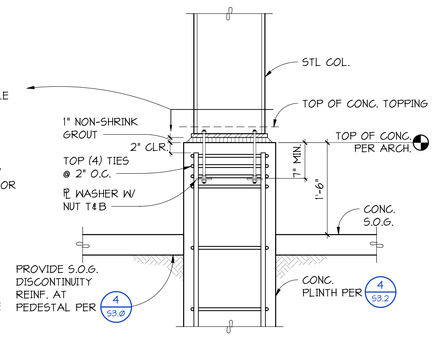
4 / S3.2 SECTION
1" = 1'-0"



HOLLOW STRUCTURAL SECTION ROUND COLUMN



WIDE FLANGE COLUMN



5 / S3.2 SECTION
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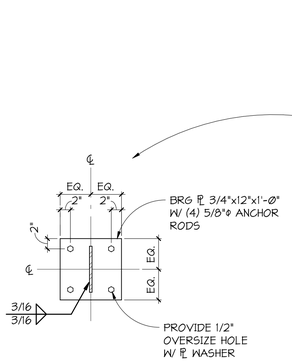

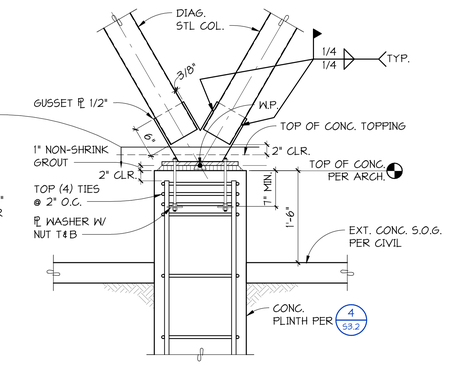

6 / S3.2 SECTION
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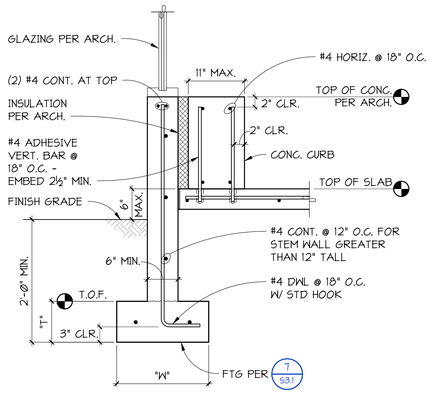

7 / S3.2 SECTION
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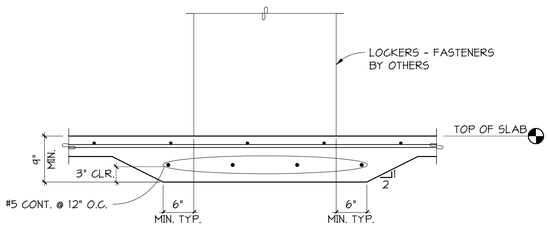

TYPICAL THICKENED SLAB AT LOCKERS

8 / S3.2 SECTION
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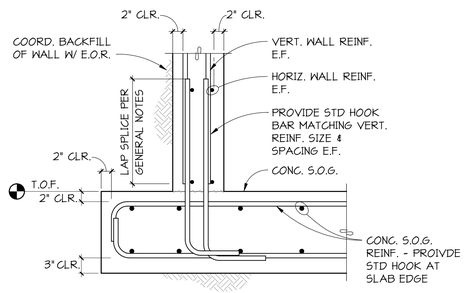

9 / S3.2 SECTION
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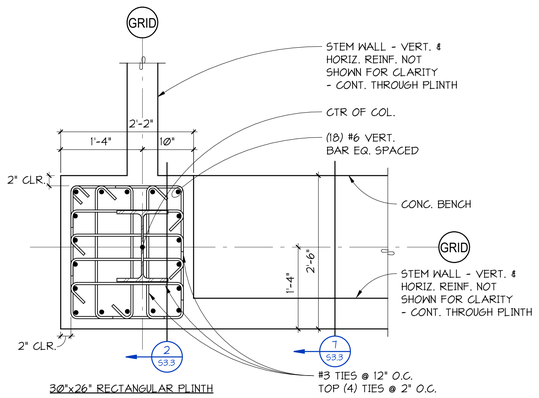
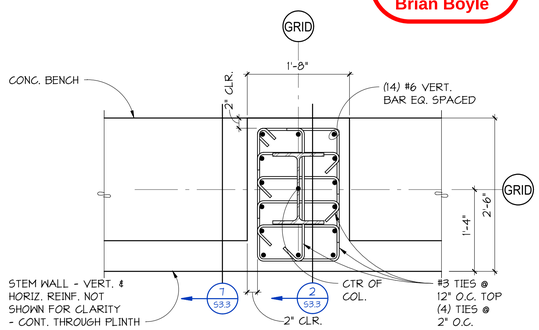


30"x26" RECTANGULAR PLINTH

10 / S3.2 PLAN DETAIL
1" = 1'-0"



30"x20" RECTANGULAR PLINTH

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SHEET:
S3.2

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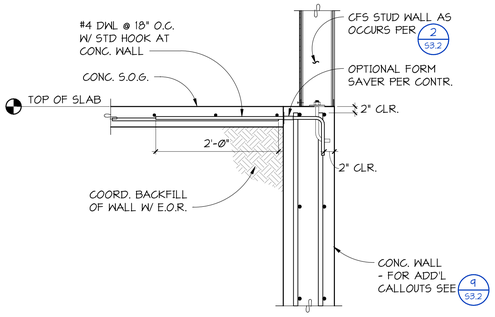

1 S3.3 SECTION
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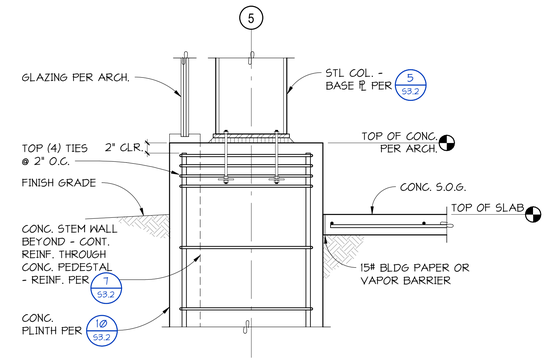

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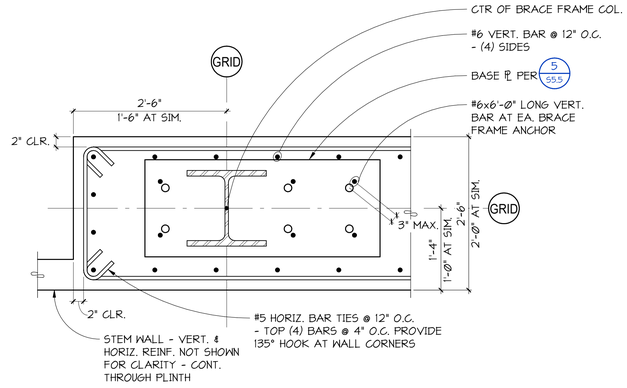

BRACE FRAME CONCRETE WALL

3 S3.3 PLAN DETAIL
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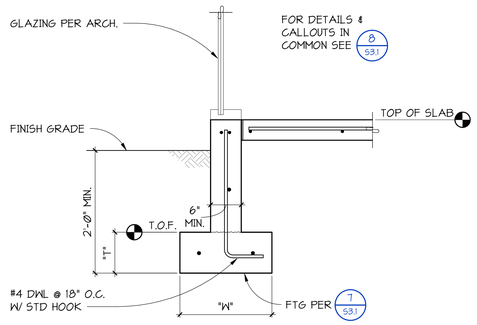

4 S3.3 SECTION
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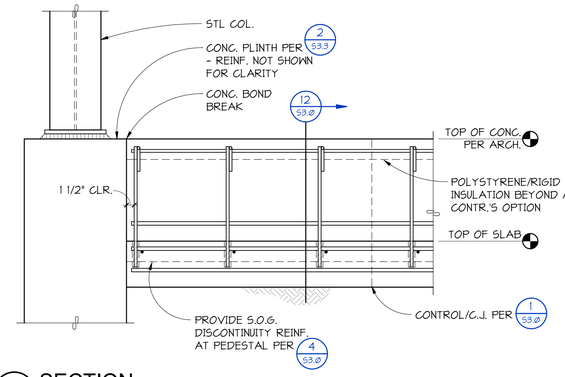

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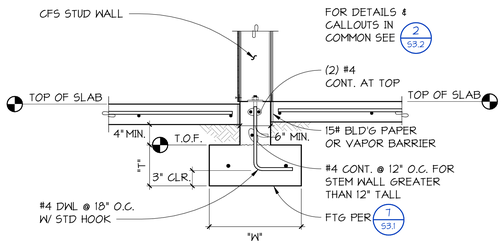

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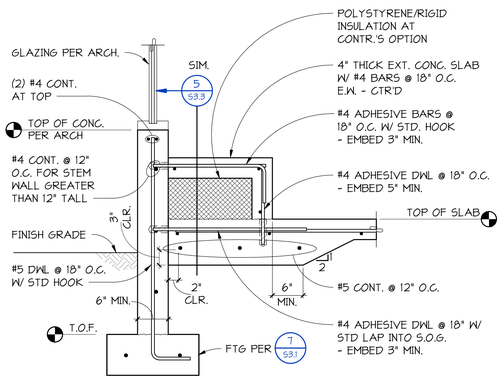

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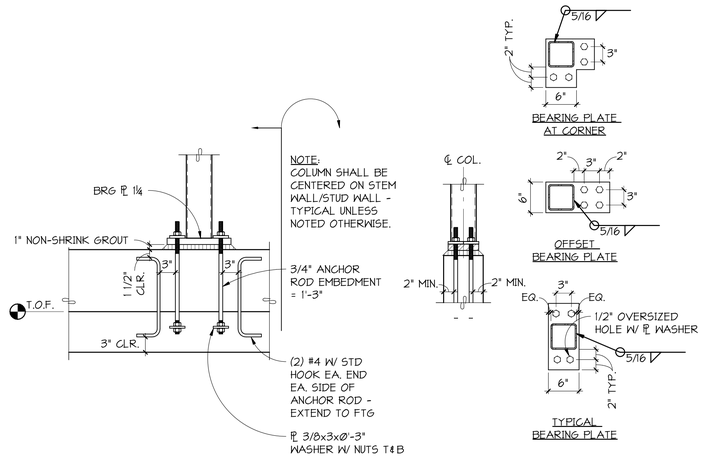
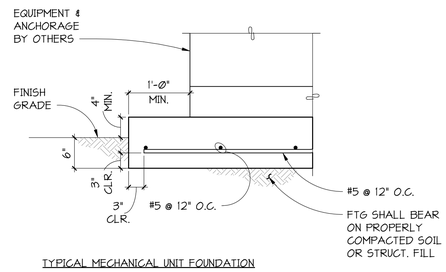


TYPICAL HOLDOWN COLUMN ACHORAGE

8 S3.3 SECTION
1" = 1'-0"

NOTE:
DETAIL TO BE USED FOR MECHANICAL AND
ELECTRICAL EQUIPMENT UP TO 20,000 POUNDS
MAXIMUM. ANCHORAGE OF EQUIPMENT BY OTHERS.



TYPICAL MECHANICAL UNIT FOUNDATION

9 S3.3 SECTION
1" = 1'-0"

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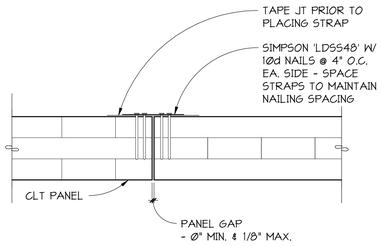
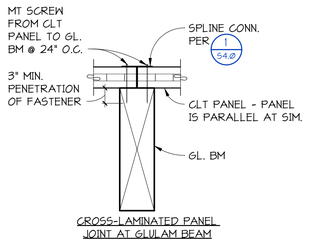


TYPICAL CROSS-LAMINATED TIMBER PANEL SPLINE

1 / S4.Ø DETAIL
NO SCALE

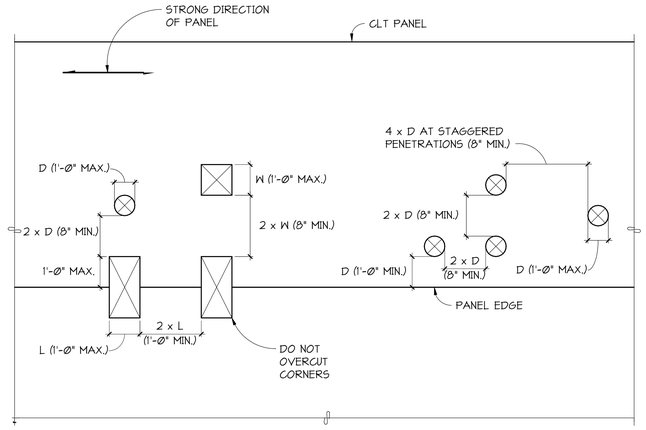


CROSS-LAMINATED PANEL JOINT AT GLULAM BEAM

CROSS-LAMINATED PANEL CONTINOUS OVER GLULAM BEAM

TYPICAL CROSS-LAMINATED TIMBER PANEL TO GLULAM BEAM

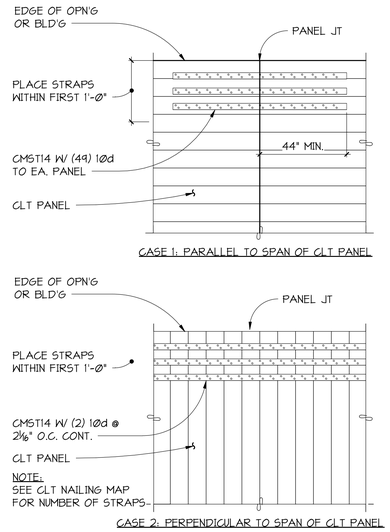
2 / S4.Ø DETAIL
NO SCALE



NOTES:
1. CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS OF ALL FLOOR PENETRATIONS AND SUBMIT PENETRATION WIDTHS LARGER THAN 9" OR NOT MEETING SPACING REQUIREMENTS TO ENGINEER FOR REVIEW.
2. WHERE ADJACENT PENETRATION SIZE VARIES THE LARGER SIZE SHALL BE USED WHEN DETERMINING CLEAR DISTANCE BETWEEN PENETRATIONS.
3. NOTIFY ENGINEER IF PENETRATIONS EXCEEDING 1'-Ø" WIDE ARE REQUIRED AND NOT SHOWN ON THE STRUCTURAL DRAWINGS.
4. DO NOT OVERCUT BEYOND REQUIRED OPENING SIZE WHEN INSTALLING PENETRATION IN PANEL.
5. THE MAXIMUM SUM OF PENETRATION WIDTHS IN ANY GIVEN SECTION SHALL BE LESS THAN 25% OF PANEL WIDTH.
6. ALLOWABLE PANEL PENETRATIONS ARE BASED ON A 8'-Ø" WIDE PANEL. SMALLER PANEL WIDTHS MAY REQUIRE ADDITIONAL FRAMING SUPPORT.

ALLOWABLE PENETRATIONS IN CROSS-LAMINATED TIMBER PANELS

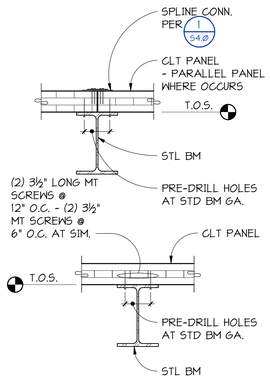
4 / S4.Ø PLAN DETAIL
1/2" = 1'-Ø"



TYPICAL MASS TIMBER PANEL STRAPS

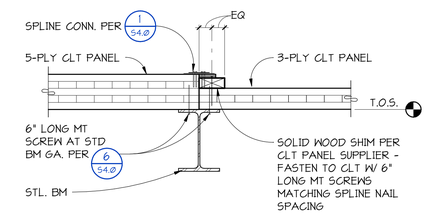
5 / S4.Ø PLAN DETAIL
1" = 1'-Ø"

NOTE:
TYPICAL 3-PLY PANEL SHOWN.
5-PLY PANEL WHERE OCCURS

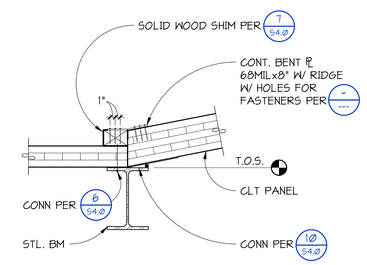


TYPICAL MASS TIMBER PANEL TO STEEL BEAM CONNECTION

6 / S4.Ø DETAIL
1" = 1'-Ø"

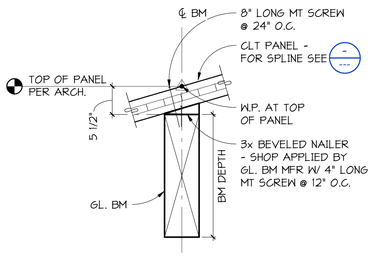


7 / S4.Ø SECTION
1" = 1'-Ø"



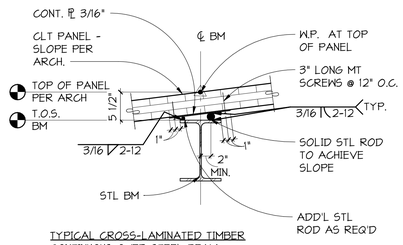
TYPICAL CROSS-LAMINATED TIMBER PANEL RIDGE

8 / S4.Ø SECTION
1" = 1'-Ø"



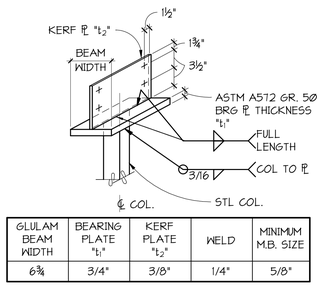
TYPICAL CROSS-LAMINATED TIMBER ROOF PANEL

9 / S4.Ø SECTION
1" = 1'-Ø"



TYPICAL CROSS-LAMINATED TIMBER CONTINUOUS OVER STEEL BEAM

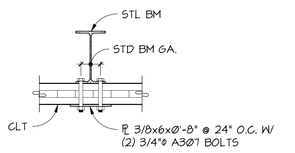
10 / S4.Ø SECTION
1" = 1'-Ø"



GLULAM BEAM WIDTH	BEARING PLATE "t1"	KERF PLATE "t2"	WELD	MINIMUM M.B. SIZE
6¾	3/4"	3/8"	1/4"	5/8"

TYPICAL GLULAM BEAM COLUMN KERF CONNECTION

11 / S4.Ø DETAIL
NO SCALE



12 / S4.Ø SECTION
1" = 1'-Ø"

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South Whidbey Parks & Recreation District

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

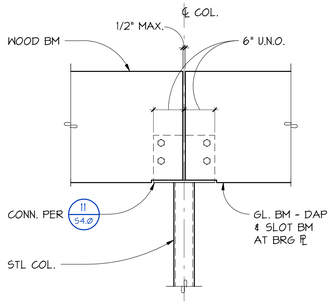
REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:
TYPICAL TIMBER DETAILS

SCALE:	As indicated
DRAWN:	DEH
CHECKED:	CAJ
PROJECT NO:	2022021.000

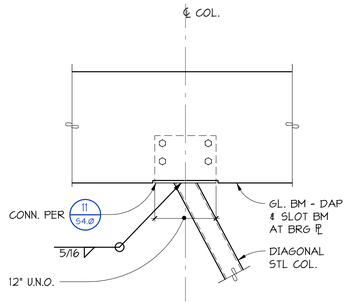
SHEET:
S4.0

C:_Revit Models\23247 SWAC R2024 (Central)_sswaney.rvt
5/23/2025 2:08:32 PM



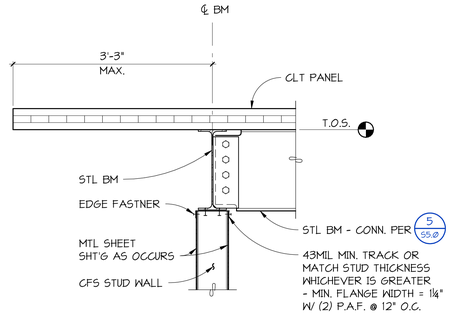
TYPICAL GLULAM BEAM TO COLUMN CONNECTION WITH BEAM DEPTHS EQUAL

1 / S4.1 SECTION
NO SCALE

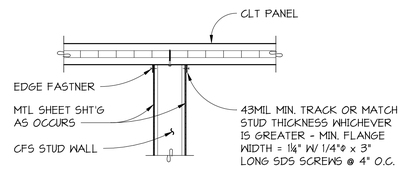


TYPICAL CONTINUOUS GLULAM BEAM OVER DIAGONAL COLUMN CONNECTION

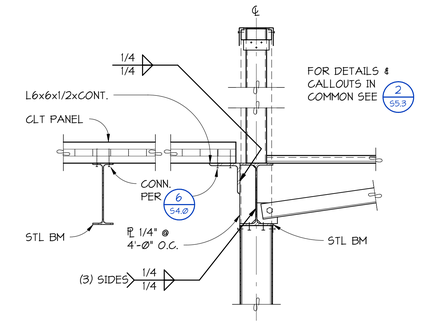
2 / S4.1 SECTION
NO SCALE



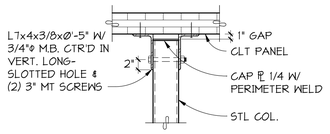
3 / S4.1 SECTION
1" = 1'-0"



4 / S4.1 SECTION
1" = 1'-0"

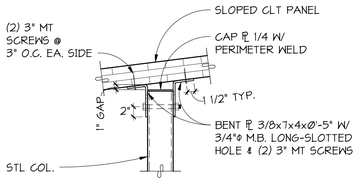


5 / S4.1 SECTION
1" = 1'-0"



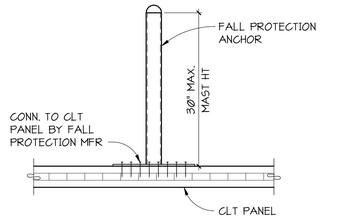
AT FLOOR

6 / S4.1 SECTION
NO SCALE



AT ROOF

7 / S4.1 SECTION
NO SCALE



FALL PROTECTION ANCHOR AT CROSS-LAMINATED TIMBER PANEL

8 / S4.1 SECTION
NO SCALE

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CHECKED: CAJ
PROJECT NO: 2022021.000

SHEET: S4.1

C:_Revit Models\23247 SWAC R2024 (Central)_sswaney.rvt
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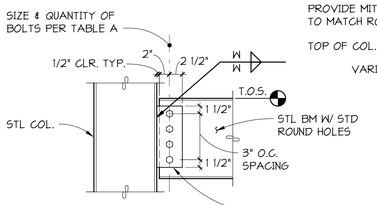
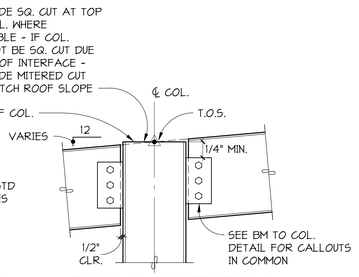
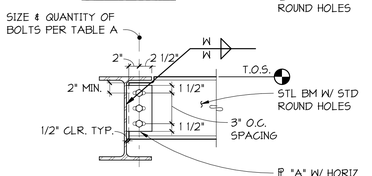


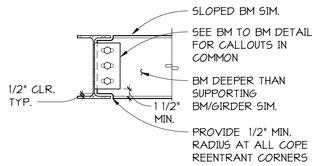
BEAM TO COLUMN



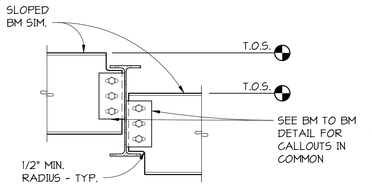
BEAM TO COLUMN (SLOPED FRAMING)



BEAM TO BEAM



BEAM TO BEAM SAME DEPTH



BEAM TO BEAM AT VARYING ELEVATION

TABLE A			
SUPPORTED BEAM SIZE	QUANTITY OF 7/8" DIAMETER A325N BOLTS	SHEAR PLATE THICKNESS "A"	WELD "W" NOTE 1.
W10	2	3/8"	5/16"
W12, W14	3	3/8"	5/16"
W16, W18	4	3/8"	5/16"

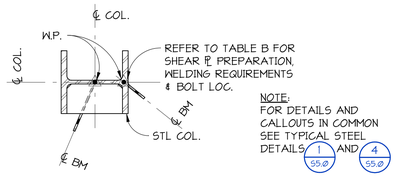
NOTE:
1. WELD SIZE SHOWN IS FOR BEAM/GIRDERS FRAMING PERPENDICULAR INTO SUPPORTS. FOR SKEWED FRAMING CONNECTIONS - SEE TYPICAL STEEL DETAIL 2/55.0.

TYPICAL STEEL DETAIL

1/55.0 DETAIL
NO SCALE

TABLE B					
"t"	SKEW ANGLE Ø	DETAIL CASE	X	W_N	W_F
3/8"	Ø ≤ 2°	CASE I	X ≤ 1/2	5/16	5/16
3/8"	2 < Ø ≤ 11°	CASE I	1/2 < X ≤ 2 5/16	3/8	5/16
3/8"	11° < Ø ≤ 25°	CASE I	2 5/16 < X ≤ 5½	1/2	5/16
3/8"	25° < Ø ≤ 30°	CASE I	5½ < X ≤ 7	9/16	5/16
3/8"	30° < Ø < 45°	CASE II	7 < X < 12	3/8	5/16
3/8"	Ø = 45°	CASE III	X = 12	1/4"	5/16
3/8"	Ø > 45°	CASE IV	X < 12	CP	-

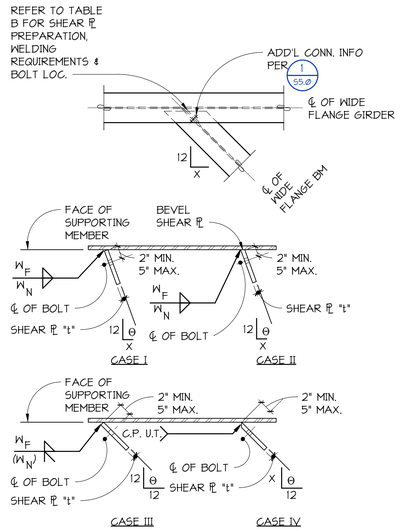
NOTES:
1. THE NUT MAY BE PLACED ON THE ACUTE ANGLE SIDE OF SHEAR PLATE, WHEN THIS SITUATION OCCURS, THE BOLT ASSEMBLY MAY BE INSTALLED AS SNUG TIGHT IN LIEU OF FULLY PRETENSIONED.
2. PROVIDE A COMPLETE PENETRATION WELD OF THE SHEAR PLATE TO THE SUPPORTING MEMBER WHERE THERE IS INSUFFICIENT CLEARANCE TO PLACE FILLET WELDS ON BOTH SIDES OF THE SHEAR PLATE.
3. "W_N IS THE EFFECTIVE THROAT OF A PARTIAL PENETRATION WELD.

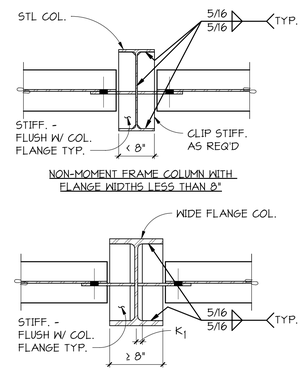


NOTE:
FOR DETAILS AND CALLOUTS IN COMMON SEE TYPICAL STEEL DETAILS 1/55.0 AND 4/55.0

TYPICAL STEEL DETAIL AT ANGLED CONNECTIONS

2/55.0 DETAIL
NO SCALE

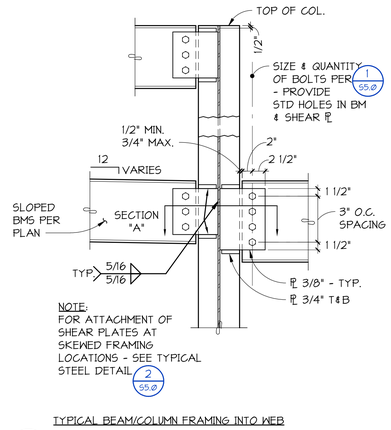




NON-MOMENT FRAME COLUMN WITH FLANGE WIDTHS LESS THAN 8"

NON-MOMENT FRAME COLUMN WITH FLANGE WIDTHS 8" AND WIDER

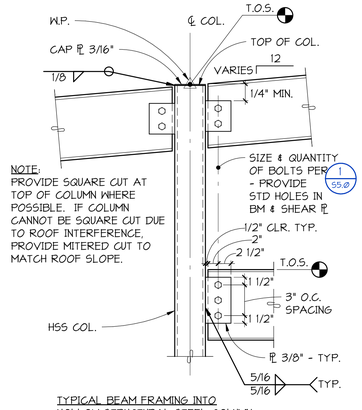
SECTION A



NOTE:
FOR ATTACHMENT OF SHEAR PLATES AT SKEWED FRAMING LOCATIONS - SEE TYPICAL STEEL DETAIL 2/55.0

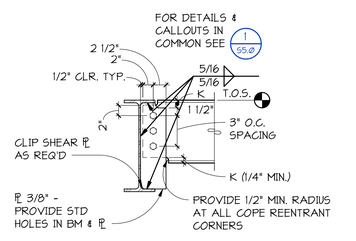
TYPICAL BEAM/COLUMN FRAMING INTO WEB

3/55.0 DETAIL
NO SCALE



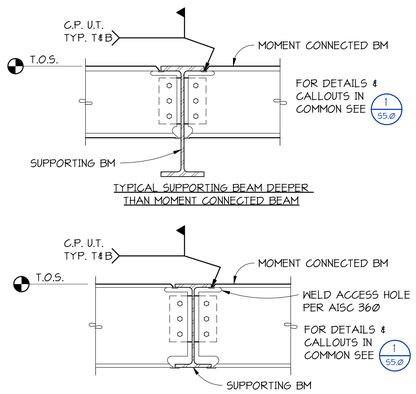
TYPICAL BEAM FRAMING INTO HOLLOW STRUCTURAL STEEL COLUMN

4/55.0 DETAIL
NO SCALE



TYPICAL BEAM FRAMING AT FULL DEPTH SHEAR PLATE

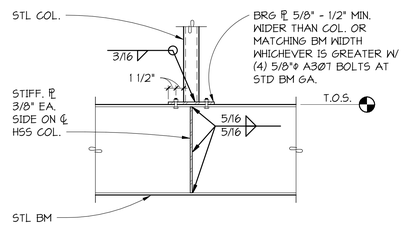
5/55.0 DETAIL
NO SCALE



TYPICAL SUPPORTING BEAM DEEPER THAN MOMENT CONNECTED BEAM

TYPICAL MOMENT CONNECTION

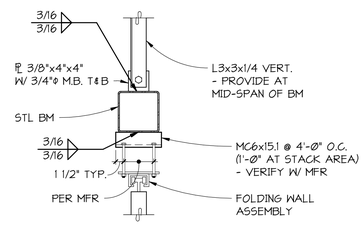
6/55.0 DETAIL
NO SCALE



TYPICAL STEEL BEAM CONNECTION TO COLUMN ABOVE

7/55.0 DETAIL
NO SCALE

NOTE:
FOR CONNECTION OF STEEL BEAM TO COLUMN - SEE 5/55.6



TYPICAL MOVEABLE PARTITION SUPPORT BEAM

8/55.0 SECTION
NO SCALE

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CHECKED: CAJ
PROJECT NO: 2022021.000

SHEET:
S5.0

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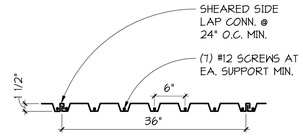
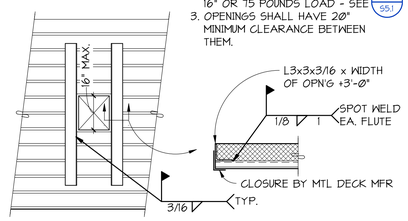


TYPE "B" DECK PROPERTIES		
GAGE	+I/-I = (in.⁴/ft.)	+S/-S = (in.³/ft)
20	.197/.217	.224/.229

NOTES:
1. (2) SPAN MINIMUM, (3) PREFERRED.
2. AT SUPPORTS PARALLEL TO CORRUGATIONS, PROVIDE
3. #12 SCREWS AT 24" ON CENTER MAXIMUM.
4. "SHEARED SIDE LAP" CONNECTION REFERS TO "PUNCHLOK" BY VERCO DECKING, INC. OR "DELTAGRIP" BY ASC STEEL DECK, OR PRE-APPROVED EQUAL.
5. MINIMUM DECK PROPERTIES AND WELD PATTERN SHOWN. PROVIDE HEAVIER GAGE AND/OR WELD PATTERN AS REQUIRED TO DEVELOP DIAPHRAGM SHEARS.
6. SECTION PROPERTIES ARE BASED ON Fy = 50 KSI.

TYPICAL ROOF METAL DECK

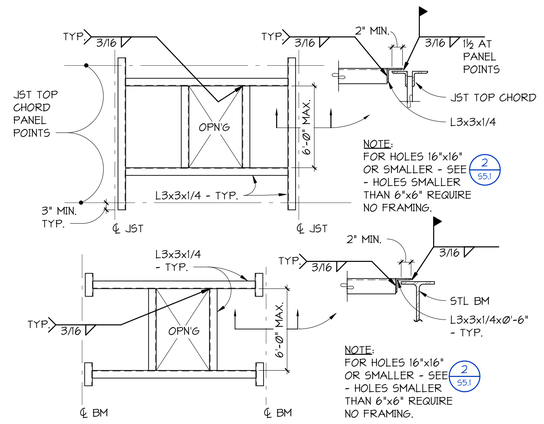
1 / 55.1 DETAIL
NO SCALE



NOTES:
1. OPENINGS LESS THAN 6"x6" REQUIRE NO FRAMING.
2. FOR OPENINGS GREATER THAN 16" OR 75 POUNDS LOAD - SEE 3 / 55.1
3. OPENINGS SHALL HAVE 2Ø" MINIMUM CLEARANCE BETWEEN THEM.

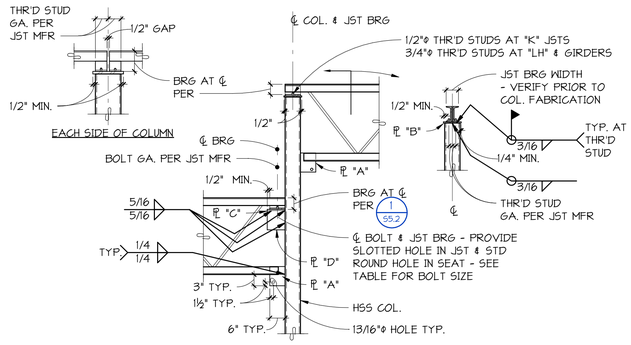
TYPICAL AT ISOLATED OPENINGS IN NON-COMPOSITE METAL DECK LESS THAN 16 INCH SQUARE

2 / 55.1 DETAIL
NO SCALE



TYPICAL FRAMING AT OPENINGS IN METAL ROOF DECK (MAXIMUM LOAD = 600 POUNDS)

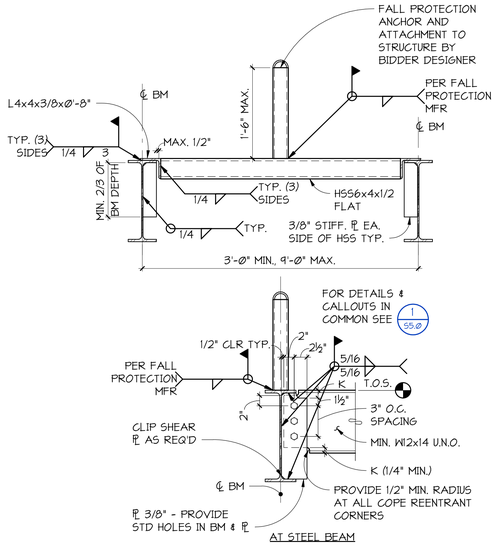
3 / 55.1 DETAIL
NO SCALE



JOIST TYPE	BOLT SIZE & GRADE	PLATE "A" SIZE (CENTERED ON COLUMN)	PLATE "B" MINIMUM SIZE	PLATE "C" MINIMUM SIZE	PLATE "D" MINIMUM SIZE
LH SERIES	3/4"Ø A3Ø7	℄ 3/4"x6"xØ'-11½"	℄ 3/4"	℄ 3/4"x6"	℄ 1/2"x6"
JOIST GIRDER	3/4"Ø A3Ø7	℄ 3/4"x6"xØ'-11½"	℄ 1"	℄ 1"x6"	(2) ℄ 3/4"x6" @ 6" ON CENTER

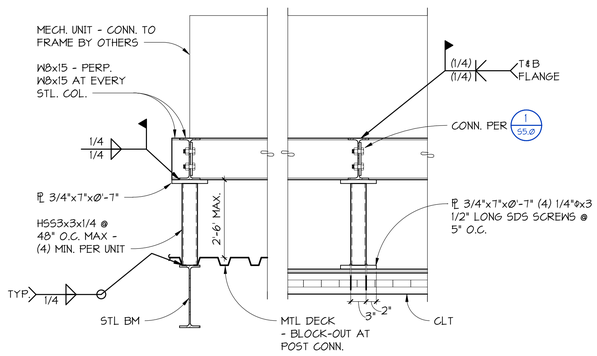
TYPICAL JOIST TO HSS COLUMN CONNECTION

4 / 55.1 DETAIL
NO SCALE



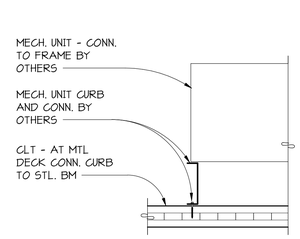
TYPICAL FALL RESTRAINT ANCHOR AT STEEL BEAM

5 / 55.1 DETAIL
NO SCALE



TYPICAL MECHANICAL UNIT FRAME

6 / 55.1 SECTION
1" = 1'-Ø"



TYPICAL MECHANICAL UNIT CURB

7 / 55.1 SECTION
1" = 1'-Ø"

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S5.1

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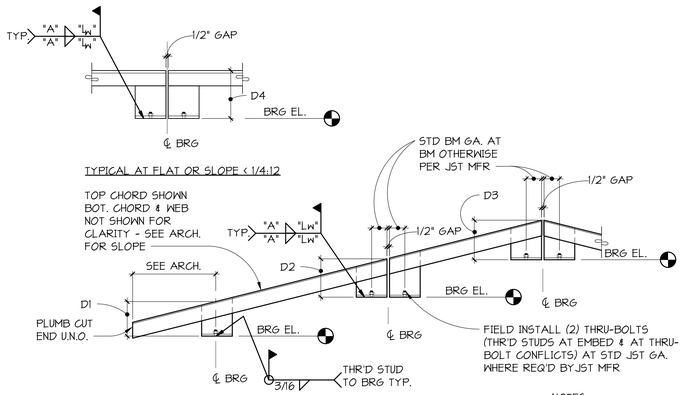
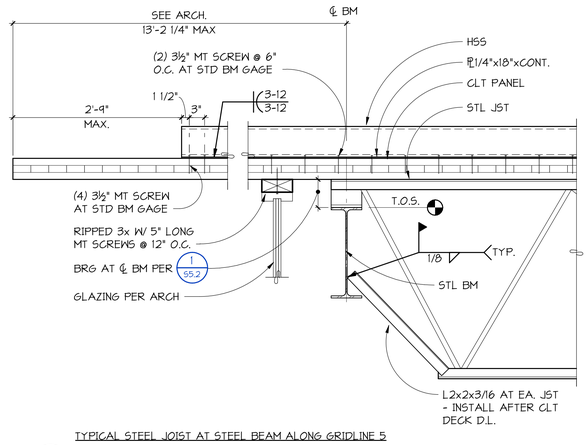


JOIST TYPE	BEARING DEPTH				FIELD INSTALLED BOLT SIZE	WELD SIZE "A"	WELD LENGTH "LW"	BOLT TYPE
	D1	D2	D3	D4				
"LH"	7"	7"	7"	6"	3/4"ø	1/4"	3"	3/4"ø A307
"G"	N/A	N/A	N/A	TBD	3/4"ø	5/16"	4"	3/4"ø A307

NOTES:
1. ALL BEARING DEPTHS MEASURED FROM CENTERLINE OF BEARING.
2. JOIST MANUFACTURER/SUPPLIER OFFSET JOIST IF REQUIRED TO ACHIEVE MINIMUM BEARING.
3. THRU-BOLT LOCATIONS SHALL BE SHOWN ON STEEL SHOP DRAWINGS.

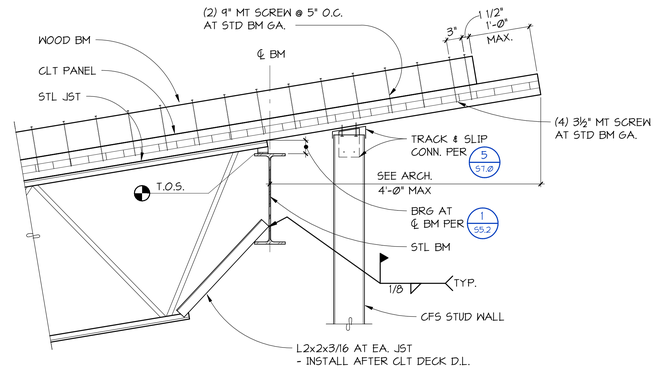
TYPICAL JOIST BEARING

1 / 55.2 DETAIL
NO SCALE



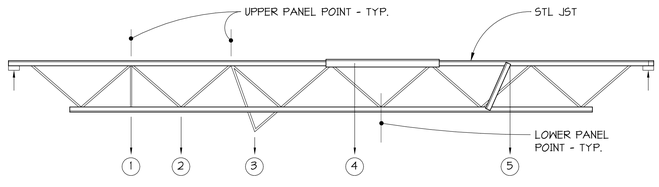
TYPICAL STEEL JOIST AT STEEL BEAM ALONG GRIDLINE 5

2 / 55.2 SECTION
NO SCALE



TYPICAL STEEL JOIST AT STEEL BEAM ALONG GRIDLINE 3

3 / 55.2 SECTION
NO SCALE

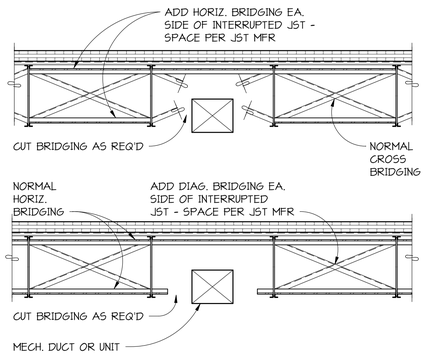


① HANG WITHIN 3" OF ANY UPPER PANEL POINT FOR "K" SERIES JOIST, 6" FOR "LH" SERIES.
② HANG WITHIN 3" OF ANY LOWER PANEL POINT FOR "K" SERIES JOIST, 6" FOR "LH" SERIES.
③ TRAPEZE BETWEEN ANY PANEL POINTS.
④ REINFORCE TOP CHORD AS REQUIRED BY JOIST MANUFACTURER.
⑤ REINFORCE BETWEEN LOAD LOCATION AND LOWER CHORD PANEL POINT AS REQUIRED BY JOIST MANUFACTURER.

NOTES:
1. JOIST MANUFACTURER DESIGN JOIST FOR A MAXIMUM ALLOWABLE ADD LOAD OF 300 POUNDS WITH A MAXIMUM SINGLE PANEL POINT LOAD NOT TO EXCEED 350 POUNDS.
2. SINGLE LOADS LESS THAN 100 POUNDS MAY BE ADDED ANYWHERE ALONG THE UPPER CHORD (NOT JUST AT PANEL POINTS) WITHOUT ADDING AN ANGLE TO STIFFEN THE JOIST.
3. DO NOT CUT OR DRILL THROUGH ANY JOIST MEMBER.
4. THIS DETAIL IS APPLICABLE TO HANGING MECHANICAL EQUIPMENT, SPRINKLER PIPES, ETC.
5. ALL STIFFENERS PER JOIST MANUFACTURER REQUIREMENTS PROVIDED BY THE GENERAL CONTRACTOR.

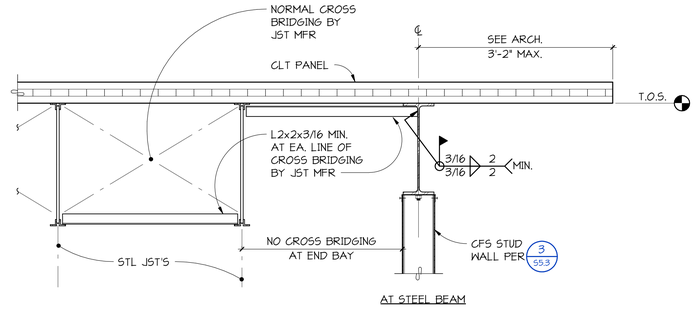
ALLOWABLE METHODS AND LOCATIONS FOR HANGING LOADS FROM STEEL JOIST

4 / 55.2 DETAIL
NO SCALE



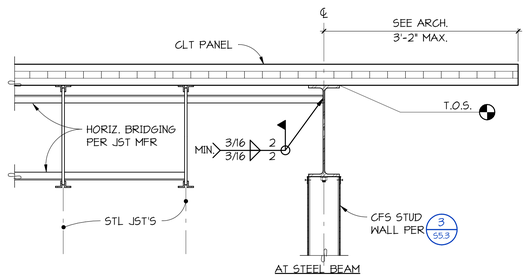
TYPICAL BRIDGING INTERRUPTED BY DUCT OR UNIT

5 / 55.2 DETAIL
NO SCALE



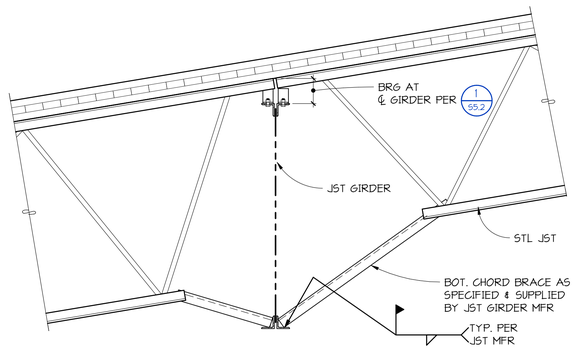
TYPICAL CROSS BRIDGING AT STEEL JOISTS

6 / 55.2 DETAIL
NO SCALE



TYPICAL HORIZONTAL BRIDGING AT STEEL JOISTS

7 / 55.2 DETAIL
NO SCALE



TYPICAL STEEL JOIST TO JOIST GIRDER

8 / 55.2 SECTION
NO SCALE

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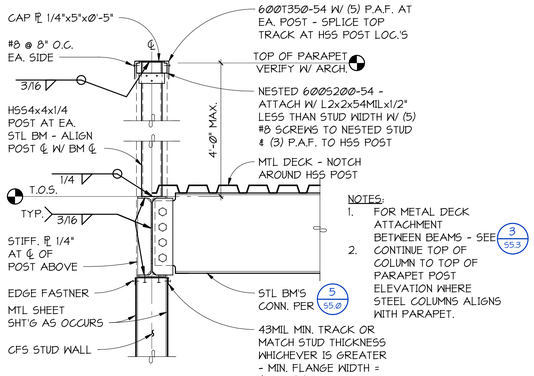
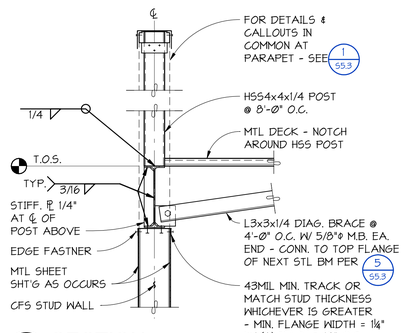


1 / 55.3 SECTION
1" = 1'-Ø"



2 / 55.3 SECTION
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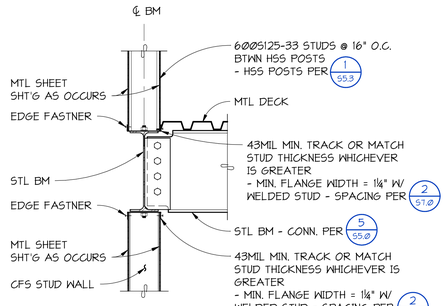

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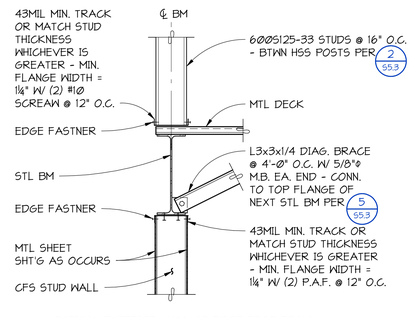

TYPICAL EXTERIOR WALL AT ROOF EDGE BEAM

4 / 55.3 SECTION
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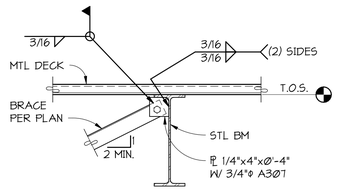

KICKER CONNECTION TO STEEL BEAM

5 / 55.3 SECTION
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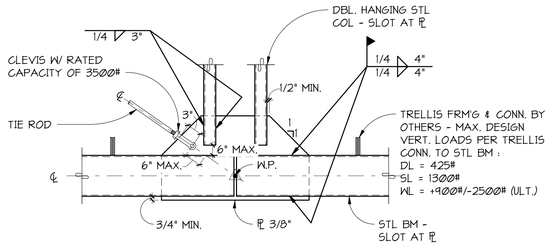

6 / 55.3 SECTION
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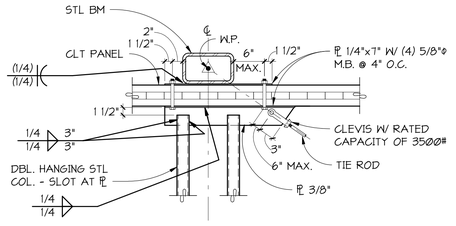

7 / 55.3 SECTION
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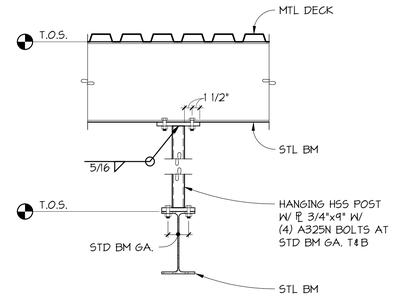

8 / 55.3 SECTION
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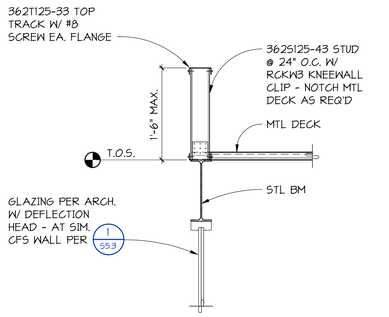

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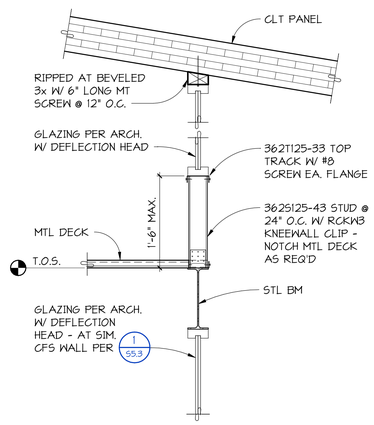

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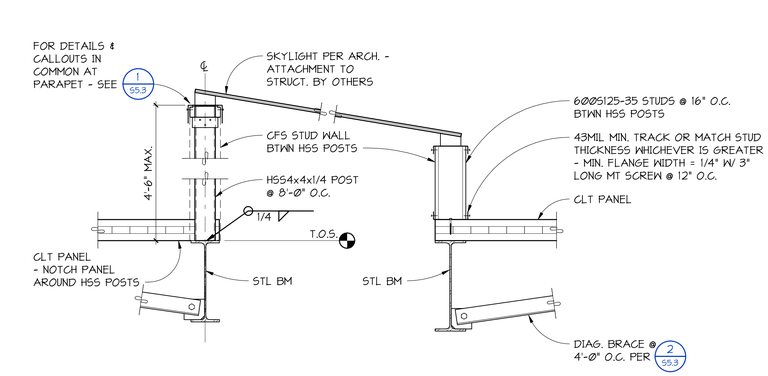

11 / 55.3 SECTION
1" = 1'-Ø"

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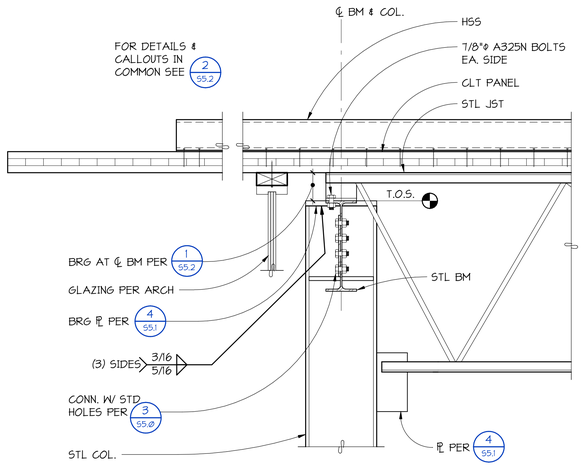
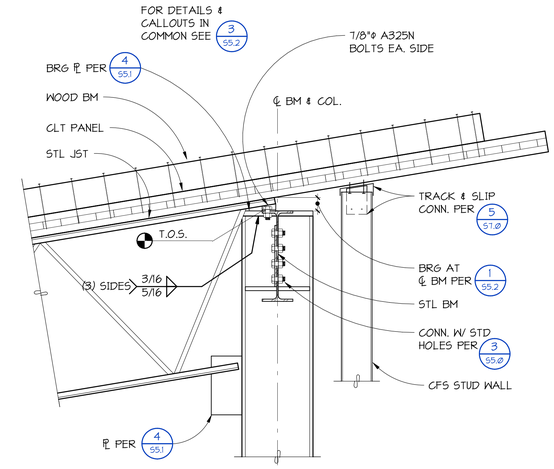


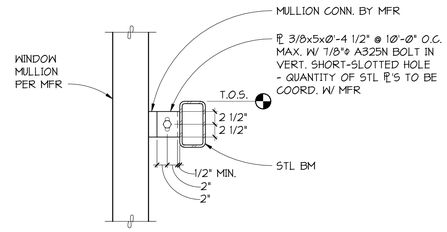
TYPICAL STEEL JOIST AT COLUMN ALONG GRIDLINE 5

1 55.4 SECTION
1" = 1'-ø"



TYPICAL STEEL JOIST AT COLUMN ALONG GRIDLINE 3

2 55.4 SECTION
1" = 1'-ø"



3 55.4 SECTION
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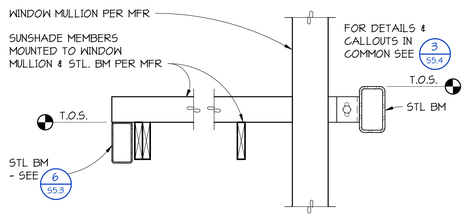
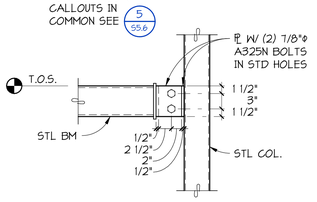


4 55.4 SECTION
1" = 1'-ø"



5 55.4 SECTION
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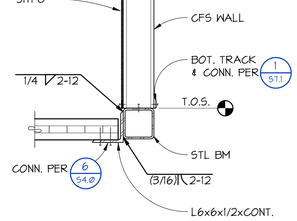

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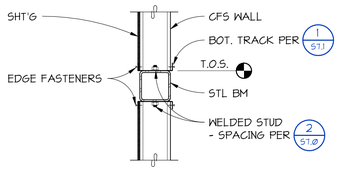

7 55.4 SECTION
1" = 1'-ø"

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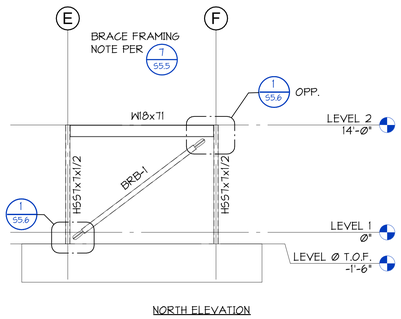
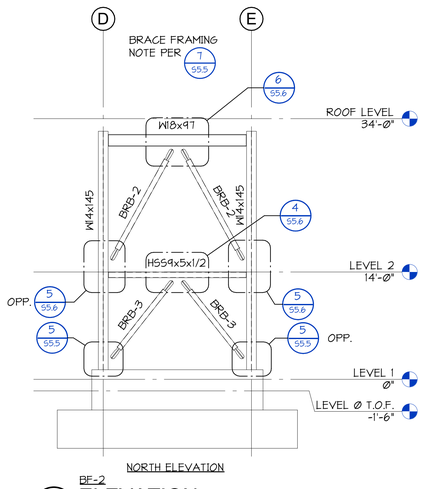


BF-1

1 55.5 ELEVATION

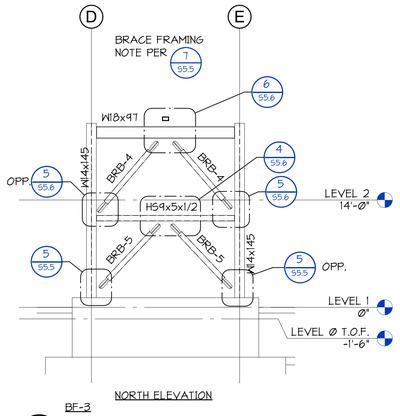
1/8" = 1'-Ø"



BF-2

2 55.5 ELEVATION

1/8" = 1'-Ø"



BF-3

3 55.5 ELEVATION

1/8" = 1'-Ø"

BUCKLING RESTRAINED BRACE SCHEDULE

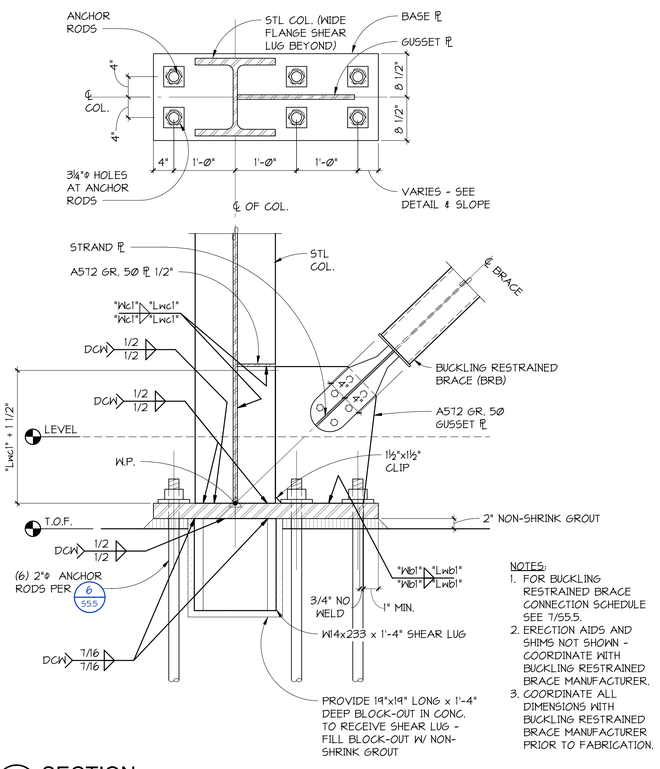
BRACED FRAME	BRACE TYPE	BRACE AXIAL FORCE (KIPS)	AREA OF STEEL CORE (IN 2)	STIFFNESS MODIFICATION FACTOR (KF)	MAXIMUM INELASTIC STORY DRIFT ΔM (in.)	REDUNDANCY (ρ)
BF-1	BRB-1	503	2.00	1.4	1.30	1.3
BF-2	BRB-2	755	2.50	1.25	1.15	
	BRB-3	725	4.25	1.35	1.40	
BF-3	BRB-4	603	2.25	1.20	1.30	
	BRB-5	92	2.25	1.30	1.45	

BUCKLING RESTRAINED BRACE SCHEDULE NOTES:

1. ALL MEMBERS AND CONNECTIONS ARE PART OF THE LATERAL FORCE-RESISTING SYSTEM.
2. BUCKLING RESTRAINED BRACES ARE TO BE TESTED PER THE PROVISIONS OF THE AISC341-10. SUPPLIER TO SUBMIT PROOF OF EACH BRACES COMPLIANCE WITH THE QUALIFIED LOAD AND STRAIN RANGES.
3. Pu GIVEN IS THE GOVERNING CODE LEVEL FORCE IN THE BRACE, USING LRFD FORCE LEVELS.
   Pu ≤ Ø.9 x Asc x Fymin.
4. Fysc IS THE ACTUAL YIELD STRESS OF THE STEEL CORE AS DETERMINED BY COUPON TESTING. 38ksi ≤ Fysc ≤ 46ksi. CHARPY TESTING REQUIRED WHEN THICKNESS OF CORE MATERIAL EXCEEDS 2".
5. BRACE STIFFNESS Keff TO BE KFxAscxE/Lwp±10%. WHERE THE VALUES FOR STIFFNESS MODIFICATION FACTOR (KF) AND Asc ARE TAKEN FROM THE TABLE AND Lwp IS THE WORKPOINT TO WORKPOINT LENGTH OF THE BRACE.
6. BRACE STRAINS TO BE ESTIMATED USING 2xΔ_MDRIFTS.
7. MAXIMUM β_{cu} NOT TO EXCEED 1.15. MAXIMUM β NOT TO EXCEED 1.18.
8. WELDED, BOLTED, SCREWED OR SHOT IN ATTACHMENTS FOR NON-STRUCTURAL ELEMENTS ARE PROHIBITED IN THE PROTECTED ZONE - SEE 2/S5.6.

4 55.5 BUCKLING RESTRAINED BRACE SCHEDULE

NO SCALE

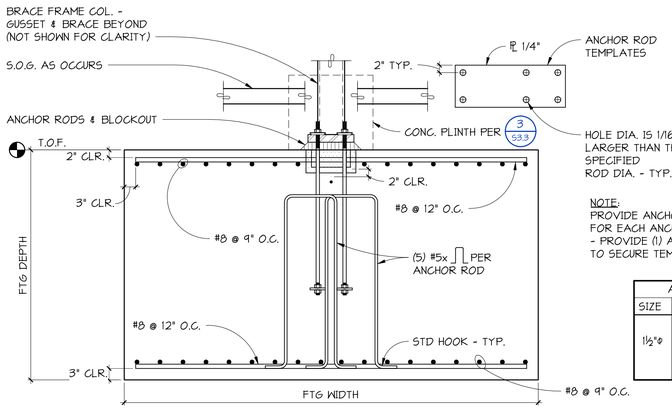


NOTES:

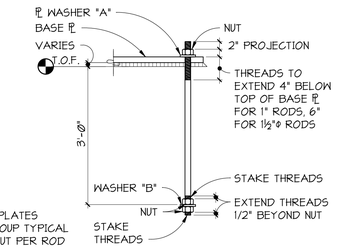
1. FOR BUCKLING RESTRAINED BRACE CONNECTION SCHEDULE SEE 7/S5.5.
2. ERECTION AIDS AND SHIMS NOT SHOWN - COORDINATE WITH BUCKLING RESTRAINED BRACE MANUFACTURER.
3. COORDINATE ALL DIMENSIONS WITH BUCKLING RESTRAINED BRACE MANUFACTURER PRIOR TO FABRICATION.

5 55.5 SECTION

NO SCALE



TYPICAL BRACED FRAME ANCHORAGE INTO FOOTING



NOTE:
PROVIDE ANCHOR ROD TEMPLATES FOR EACH ANCHOR ROD GROUP TYPICAL - PROVIDE (1) ADDITIONAL NUT PER ROD TO SECURE TEMPLATE.

ANCHOR ROD		WASHER		NUT
SIZE	MATERIAL	TYPE	SIZE	
1½"ø	F1554 GR. 105	A	PL 1/2"x4"xØ'-4" W 2⅜"ø HOLE CTR'D	A563 GR. DH HEAVY HEX
		B	ASTM F844 CARBON FLAT WASHER	

TYPICAL ANCHOR ROD DETAIL AT BRACED FRAMES

6 55.5 SECTION

NO SCALE

BUCKLING RESTRAINED BRACE AND GUSSET CONNECTION SCHEDULE

BRACED FRAME	BRACE TYPE	GUSSET PLATE THICKNESS (in.)	LOWER BEAM WELD		LOWER COLUMN WELD		UPPER CHEVRON WELD			UPPER BEAM WELD		UPPER COLUMN WELD	
			Wb1	Lwb1(in.)	Wc1(5)	Lwc1(in.)	Wb2	Lwb2(in.)	Lgc2(in.)	Wb2	Lwb2(in.)	Wc2	Lwc2(in.)
BF-1	BRB-1	1"	5/16	20	5/16	24	-	-	-	5/16	18	5/16	14
BF-2	BRB-2	1"	5/16	25	5/16	38	5/16*	45*	18*	-	-	-	-
	BRB-3	1"	5/16	28	5/16	30	5/16*	40*	18*	-	-	-	-
BF-3	BRB-4	1"	5/16	24	5/16	24	5/16*	55*	24*	-	-	-	-
	BRB-5	1"	5/16	24	5/16	27	5/16*	62*	18*	-	-	-	-

BUCKLING RESTRAINED BRACE SCHEDULE NOTES

1. SEE SHEET S5.5 FOR BUCKLING RESTRAINED BRACE FRAME CALLOUTS AND ELEVATIONS.
2. WORK THIS SCHEDULE WITH DETAILS ON SHEETS S5.5, S5.6, AND S5.7.
3. ALL GUSSET PLATES SHALL BE A572 GRADE 50.
4. COORDINATE ALL DIMENSIONS WITH BUCKLING RESTRAINED BRACE MANUFACTURER PRIOR TO FABRICATION.
5. WELD SIZE INDICATED IS MINIMUM ASSUMING NO GAP BETWEEN GUSSET EDGE AND COLUMN FLANGE. IF, AT FIT UP, THE GAP IS GREATER THAN 1/16", THE LEG OF THE FILLET WELD SHALL BE INCREASED BY THE AMOUNT OF THE ROOT OPENING UP TO 3/16" MAXIMUM GAP.
6. FINAL DESIGN OF BUCKLING RESTARINED BRACES, GUSSET, AND CONNECTION WELDS ARE PER THE BUCKLING RESTRAINED BRACE MANUFACTURER

7 55.5 BRACED FRAME NOTES

NO SCALE

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REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:

BRACED FRAME ELEVATIONS

SCALE: As Indicated
DRAWN: SMS
CHECKED: CAJ
PROJECT NO: 2022021.000

SHEET: S5.5

C:_Revit Models\23247 SWAC R2024 (Central)_sswaney.rvt

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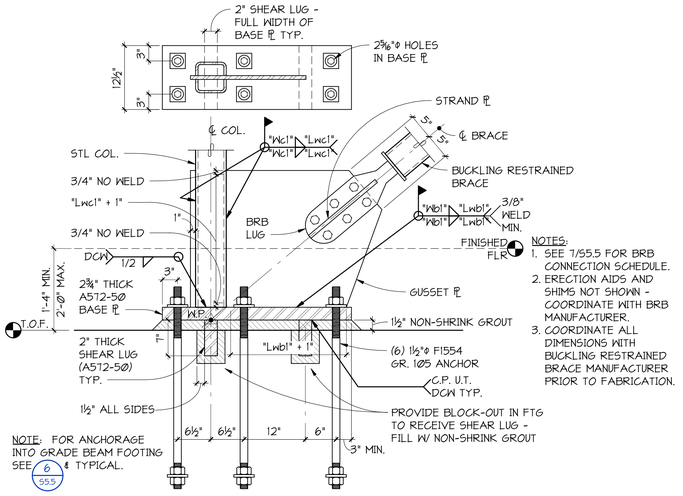
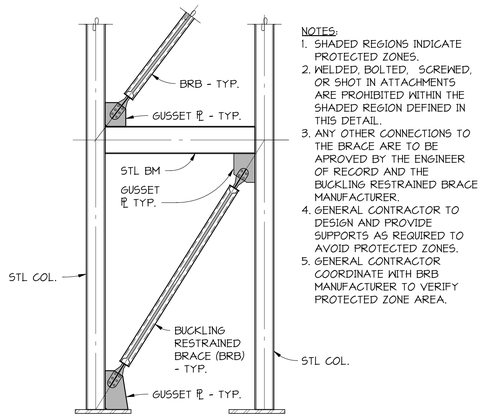
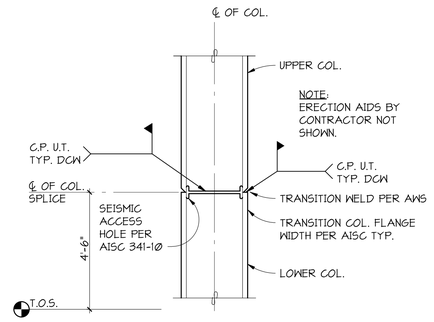


TYPICAL BUCKLING RESTRAINED BRACE FOUNDATION CONNECTION

1/55.6 DETAIL
NO SCALE



2/55.6 SECTION
NO SCALE



TYPICAL COLUMN SPLICE AT BRACED FRAMES

3/55.6 DETAIL
1" = 1'-0"

TYPICAL BUCKLING RESTRAINED BRACE CHEVRON CONNECTION

4/55.6 SECTION
NO SCALE

5/55.6 SECTION
1" = 1'-0"

TYPICAL BUCKLING RESTRAINED BRACE CHEVRON CONNECTION

6/55.6 SECTION
NO SCALE

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REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:

STEEL BRACED FRAME DETAILS

SCALE:	As indicated
DRAWN:	DEH
CHECKED:	CAJ
PROJECT NO:	2022021.000

SHEET:

S5.6

C:_Revit Models\23247 SWAC R2024 (Central)_sswaney.rvt

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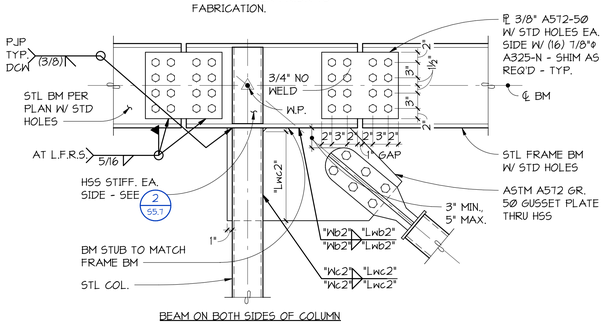
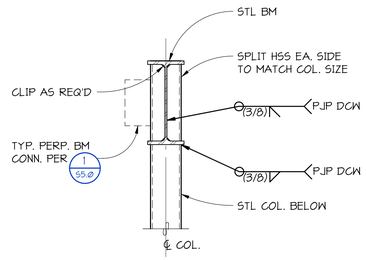
NOTE:
1. SEE7/S5.5 FOR BUCKLING RESTRAINED BRACE CONNECTION SCHEDULE.
2. ERECTION AIDS AND SHIMS NOT SHOWN - COORDINATE WITH BUCKLING RESTRAINED BRACE MANUFACTURER.
3. COORDINATE ALL DIMENSIONS WITH BUCKLING RESTRAINED BRACE MANUFACTURER PRIOR TO FABRICATION.



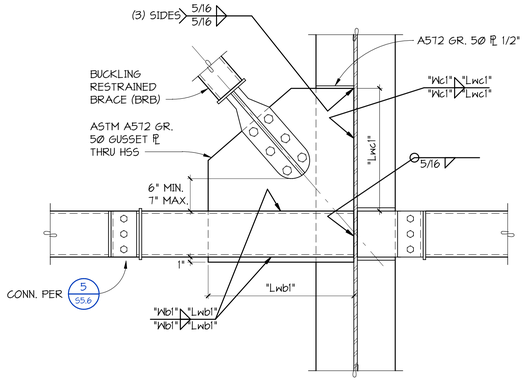
BEAM ON BOTH SIDES OF COLUMN

TYPICAL BUCKLING RESTRAINED BRACE BEAM-COLUMN-BRACE CONNECTION

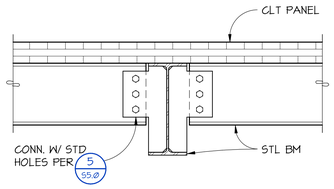
1 / S5.1 SECTION
NO SCALE



2 / S5.1 DETAIL
NO SCALE



3 / S5.1 SECTION
1" = 1'-0"



4 / S5.1 SECTION
1" = 1'-0"

5 / S5.1 SECTION
1" = 1'-0"

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CONTENTS:

STEEL BRACED FRAME DETAILS

SCALE: 1" = 1'-0"
DRAWN: DEH
CHECKED: CAJ
PROJECT NO: 2022021.000

SHEET:
S5.7

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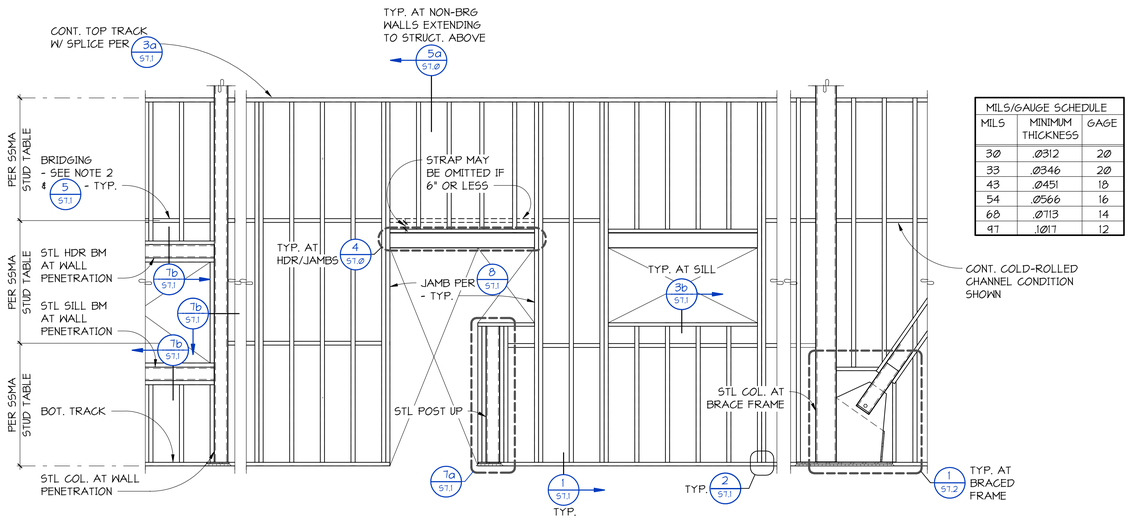


MILS/GAUGE SCHEDULE		
MILS	MINIMUM THICKNESS	GAGE
30	.0312	20
33	.0346	20
43	.0451	18
54	.0566	16
68	.0713	14
97	.1017	12

COLD FORMED STEEL STUD WALL FRAMING NOTES:

1. ALL NON-BEARING WALL STUDS SHALL BE PER 3/S7.0 UNLESS NOTED OTHERWISE. FOR WALL TYPE AND PROPER LOCATION - SEE ARCHITECTURAL DRAWINGS.
2. PROVIDE BRIDGING AT ALL NON-BEARING WALLS WITHOUT FULL HEIGHT QUALIFIED SHEATHING EITHER SIDE OF STUD PER 5/S7.1 NOTE #1.
3. FOR TYPICAL COLD-FORMED STEEL JOIST CEILING FRAMING SCHEDULE AND DETAIL - SEE 7/S7.2.
4. ALL WELDS SHALL BE 1/8" FILLET MAXIMUM. FOR MATERIALS THINNER THAN 0.15", EFFECTIVE THROAT SHALL NOT BE LESS THAN THINNEST MATERIAL. WELD IN ACCORDANCE WITH "STRUCTURAL WELDING CODE -- SHEET METAL" AWS D1.3.
5. STUD PUNCHOUTS SHALL NOT BE SPACED LESS THAN 24" ON CENTER, NOR WITHIN 10" CLEAR OF MEMBER END AT STUDS, HEADERS, BEAMS, JOISTS, ETCETERA FOR TYPICAL ALLOWABLE PUNCHOUT DETAIL - SEE 6/S7.1.
6. SCREWS SHALL BE THREAD-FORMING OR THREAD-CUTTING, WITH OR WITHOUT A SELF DRILLING POINT. SCREWS SHALL BE INSTALLED AND TIGHTENED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION. MINIMUM SPACING IS THREE SCREW DIAMETERS. A MINIMUM OF (3) THREADS SHALL BE ENGAGED.
7. FOR TYPICAL COLD-FORMED STEEL WALL CORNER REQUIREMENTS - SEE 3b/S7.1.
8. FOR POWDER ACTUATED FASTENER REQUIREMENTS - SEE GENERAL NOTES.

TYPICAL COLD-FORMED STEEL STUD WALL FRAMING

1 S7.0 ELEVATION
NO SCALE

COLD-FORMED STEEL STUD WALL CONSTRUCTION SCHEDULE						
TABLE 1 - SHEAR WALL REQUIREMENTS						
MARK	WALL SHEATHING	SIDES WITH SHEATHING	SHEATHING FASTENING	EDGE FASTENING ON CENTER SPACING[2,5]	FIELD FASTENING ON CENTER SPACING[5]	5/8" ANCHOR SPACING (EMBED 7") PER 1/S7.1
A	0.033" STEEL SHEET	(1)	#8 SCREW	6"	12"	18"
B	0.033" STEEL SHEET	(1)	#8 SCREW	4"	12"	16"
C	0.033" STEEL SHEET	(1)	#8 SCREW	3"	12"	16"
D	0.033" STEEL SHEET	(1)	#8 SCREW	2"	12"	16"
E	0.033" STEEL SHEET	(2)	#8 SCREW	6"	12"	9"
F	0.033" STEEL SHEET	(2)	#8 SCREW	2"	12"	9"

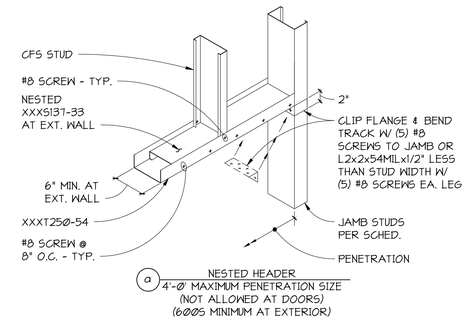
TABLE 2 - STUD REQUIREMENTS		
MARK	STUD SIZE AND SPACING	NUMBER OF STUDS REQUIRED AT MEMBER BEARING
1	600S162-33 @ 16" O.C.	(1)
2	600S162-43 @ 16" O.C.	(2)
3	400S162-43 @ 16" O.C.	(1)

NOTES:

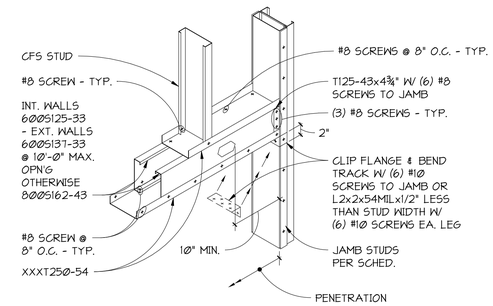
1XX FIRST CHARACTER INDICATES SPECIAL SHEAR WALL REQUIREMENTS PER TABLE 1
SECOND CHARACTER INDICATES SPECIAL STUD SPACING PER TABLE 2
STAR INDICATES BOTH LAYERS OF SHEATHING GOES ON SINGLE-SIDE OF SPECIAL SHEAR WALL - SEE 1/S7.3.

1. XX INDICATES STRUCTURAL WALL MARK. STUDS SHALL ALIGN WITH JOISTS AND STUDS ABOVE. FOR NUMBER OF STUDS REQUIRED BELOW JOIST/STUD - SEE SCHEDULE. WALL MARK "1" SHALL BE USED AT LOCATIONS WHERE WALL PARALLEL TO JOISTS. FOR TYPICAL WALL STUD BRIDGING DETAIL AND ADDITIONAL WALL FRAMING REQUIREMENTS - SEE 5/S7.1 AND 1/S7.0.
2. ALL EXTERIOR AND INTERIOR WALL DESIGNATED AS SHEAR WALL SHALL BE BLOCKED AT ALL UNSUPPORTED PANEL EDGES. EDGE FASTENING APPLIES TO TOP AND BOTTOM TRACK, PANEL VERTICAL AND HORIZONTAL JOINTS, WALL CORNERS, HOLDDOWN ANCHOR STUDS, AND WALL END STUDS. SHEAR WALL STUD FLANGE WIDTH SHALL BE 1.62 MINIMUM. BLOCKING SHALL MATCH THICKNESS OF WALL STUDS± 1½" MINIMUM UNLESS NOTED OTHERWISE.
3. ADDITIONAL REQUIREMENTS AT WALL PENETRATIONS, FOR TYPICAL DETAILS - SEE 1/S7.0.
4. SHEATHING PANELS MAY BE INSTALLED PARALLEL OR PERPENDICULAR TO FRAMING.
5. SCREWS SHALL BE SELF-DRILLING - SELF - TAPPING FLAT HEAD SCREW WITH MINIMUM 0.292" HEAD DIAMETER.
6. PROVIDE 3"x3"x1/4" PLATE WASHER AT EACH ADHESIVE ANCHOR - WELD TO TRACK WITH FILLET ALL AROUND. DISTANCE FROM ANCHOR TO END OF TRACK TO BE 6" MAXIMUM, 3" MINIMUM.

2 S7.0 SCHEDULE
NO SCALE



a NESTED HEADER
4'-0" MAXIMUM PENETRATION SIZE (NOT ALLOWED AT DOORS) (600S MINIMUM AT EXTERIOR)



b BOX HEADER
15'-4 MAXIMUM PENETRATION UNLESS NOTED OTHERWISE - SEE 7/S7.1
8'-0" MAXIMUM PENETRATION AT 4" EXTERIOR WALL
10'-0" MAXIMUM PENETRATION AT 4" OR 3⅝" INTERIOR WALL

EXTERIOR NON-BEARING COLD-FORMED STEEL WALL STUDS 22 PSF (ASD) LOAD, 1/360 DEFLECTION LIMIT					
REQUIRED BRIDGING TYPE	STUD SIZE	STUD MIL			
		33MIL	43MIL	54MIL	68MIL
		STUDS SPACED @ 16" O.C. MAX.			
		MAXIMUM STUD HEIGHT ALLOWED			
1 OR 2 OR 3	400S137	9'-3"	10'-9"	12'-6"	13'-6"
	400S162	10'-3"	12'-3"	13'-3"	14'-3"
	400S200	10'-3"	13'-0"	14'-0"	15'-0"
	600S137	10'-3"	14'-3"	17'-3"	18'-9"
	600S162	10'-3"	16'-6"	18'-3"	19'-6"
	600S200	10'-3"	17'-6"	19'-3"	20'-6"
1 OR 3	800S137	-	16'-6"	20'-0"	22'-9"
	800S162	-	16'-9"	22'-9"	24'-6"
	800S200	-	16'-9"	24'-0"	25'-9"

NOTES:
1. FOR TYPICAL COLD-FORMED STEEL WALL STUD BRIDGING DETAIL - SEE 5/S7.1.
2. INFORMATION SHOWN FOR S125 STUDS TAKEN FROM THE GYPSUM CONSTRUCTION HAND BOOK BY CGC INC. - INFORMATION SHOWN FOR ALL OTHER STUDS TAKEN FROM ICC ES LEGACY REPORT ER-4443P*.

INTERIOR NON-BEARING COLD-FORMED STEEL WALL STUDS 5 PSF (ASD) LIVE LOAD, 1/360 DEFLECTION LIMIT			
REQUIRED BRIDGING TYPE	STUD SIZE	STUD MIL	
		18MIL	33MIL
		STUD SPACING	
		16" O.C.	16" O.C.
		MAXIMUM STUD HEIGHT ALLOWED	
4	1625125	8'-2"	8'-5"
	2505125	9'-10"	11'-2"
	3625125	12'-4"	14'-3"
	4005125	13'-4"	15'-11"
	6005125	17'-11"	21'-4"
REQUIRED BRIDGING TYPE	STUD SIZE	STUD MIL	
		43MIL	54MIL
		STUD SPACING	
		16" O.C.	16" O.C.
		MAXIMUM STUD HEIGHT ALLOWED	
1 OR 2 OR 3 OR 4	400S137	17'-2"	18'-5"
	400S162	18'-0"	19'-3"
	400S200	19'-0"	20'-4"
	600S137	23'-8"	25'-5"
	600S162	24'-4"	26'-6"
	600S200	26'-0"	27'-11"
1 OR 3 OR 4	800S137	30'-0"	32'-2"
	800S162	31'-2"	33'-6"
	800S200	32'-1"	35'-0"

3 S7.0 SCHEDULE
NO SCALE

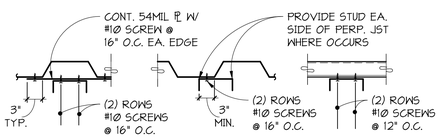
EXTERIOR NON-BEARING COLD-FORMED STEEL STUD WALL PENETRATION JAMB SCHEDULE 22 PSF (ASD) WIND LOAD							
STUD SIZE AND MIL	MAXIMUM PENETRATION (FEET)	MINIMUM NUMBER STUD(S) AT JAMB					
		(1)		(2)		(3)	
		HORIZONTAL DEFLECTION LIMIT OF WALL HEIGHT					
		L / 240	L / 360	L / 240	L / 360	L / 240	L / 360
		MAXIMUM JAMB HEIGHT (FEET)					
400S137-33	4	-	-	10	-	11	-
	8	-	-	-	-	9	-
600S137-33	4	9	9	13	13	15	15
	8	-	-	10	10	11	11
	12	-	-	-	-	9	9
800S162-43	4	14	14	16	16	-	-
	8	11	11	15	15	-	-
	12	-	-	12	12	15	15

INTERIOR NON-BEARING COLD-FORMED STEEL STUD WALL PENETRATION JAMB SCHEDULE 5 PSF (ASD) LIVE LOAD - L/360								
STUD SIZE AND MIL	MAXIMUM PENETRATION (FEET)	MINIMUM NUMBER OF BUILT-UP STUDS AT JAMB			STUD DEPTH	STUD WIDTH AND MIL	MAXIMUM PENETRATION WIDTH (FEET) WITH SINGLE JAMB STUD		
		(2)	(3)	(4)			(4)	(8)	(12)
		MAXIMUM JAMB HEIGHT (FEET)					MAXIMUM JAMB HEIGHT (FEET)		
362S125-33 OR 400S125-33	4	12	15	-	362S OR 400S	125-33	10	-	-
	8	10	12	14		137-43	12	-	-
						162-54	13	11	-
						200-54	14	12	10
600S125-33	4	16	-	-	600S	125-33	11	-	-
	8	13	16	-		137-43	14	-	-
						162-54	-	15	-
	12	9	14	16		200-54	-	-	15

NOTES:
1. BOXED JAMB STUDS SHOWN. BACK-TO-BACK JAMB STUDS PERMITTED AT CONTRACTOR'S OPTION. FOR DETAIL - SEE 8/S7.1.
2. FOR CONNECTION TO STRUCTURE ABOVE - SEE 5/S7.0.
3. FOR CONNECTION TO STRUCTURE BELWO - SEE 1/S7.1.
4. HEADER AND STUDS SHALL BE CONTINUOUS - NO SPLICES ALLOWED.
5. FOR OPENINGS GREATER THAN 12'-0" - SEE 7/S7.1.

TYPICAL NON-BEARING COLD-FORMED STEEL WALL PENETRATION AT 16'-0" MAXIMUM STUD HEIGHT - JAMB STUD SCHEDULE

4 S7.0 DETAIL
NO SCALE



TOP TRACK TYPICAL CONNECTION TO STRUCTURE ABOVE

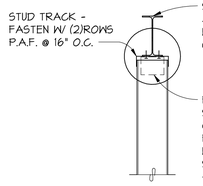
TYPICAL NON-BEARING COLD-FORMED STEEL WALL EXTENDING TO STRUCTURE ABOVE

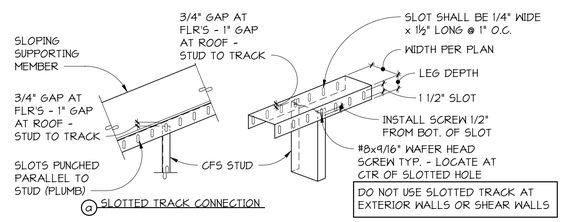
5 S7.0 SECTION
NO SCALE

SLOTTED TOP TRACK THICKNESS							
3" MINIMUM TRACK WITH 1" GAP				2½" TRACK WITH 3/4" GAP			
TRACK THICKNESS (MILS)	ALLOWABLE LOAD (POUNDS)	EXTERIOR WALL HEIGHT**	INTERIOR WALL HEIGHT	TRACK THICKNESS (MILS)	ALLOWABLE LOAD (POUNDS)	EXTERIOR WALL HEIGHT**	INTERIOR WALL HEIGHT
33	47		14'-1"	33	106		31'-10"
43	92		21'-8"	43	174		52'-4"
54	177			54	344		
68	299			68	475		

*DISTANCE BETWEEN WALL STUD SUPPORTS
**DO NOT USE SLOTTED TRACK AT EXTERIOR STUD WALLS.

TOP TRACK SCHEDULE





a SLOTTED TRACK CONNECTION

DO NOT USE SLOTTED TRACK AT EXTERIOR WALLS OR SHEAR WALLS

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REVISION SCHEDULE		
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CONTENTS:

TYPICAL COLD-FORMED STEEL FRAMING DETAILS

SCALE: As indicated
DRAWN: SMS
CHECKED: CAJ
PROJECT NO: 2022021.000

SHEET:

S7.0

C:_Revit Models\23247 SWAC R2024 (Central)_sswaney.rvt
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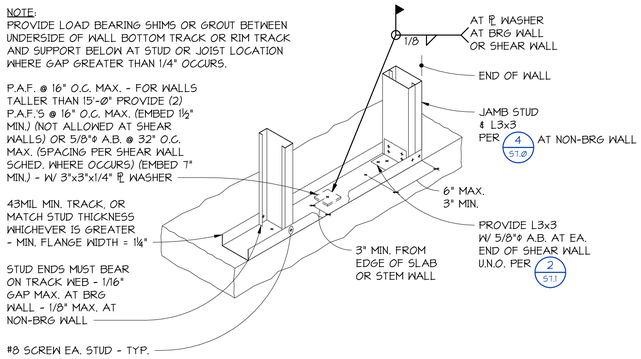
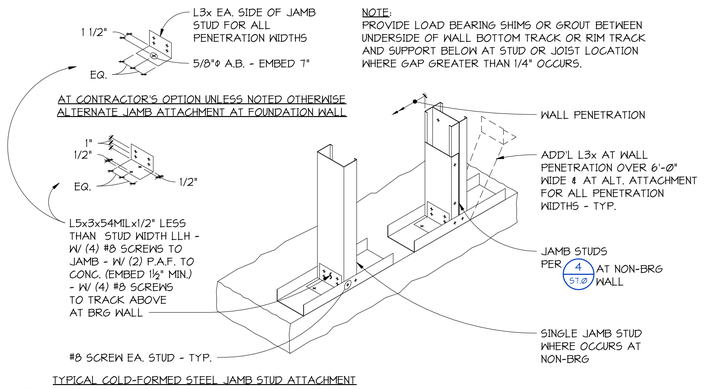


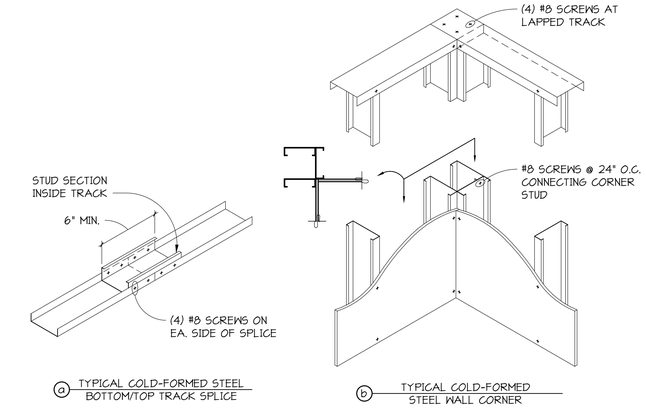
TYPICAL COLD-FORMED STEEL STUD AND TRACK ATTACHMENT

1 S1.1 DETAIL
NO SCALE



TYPICAL COLD-FORMED STEEL JAMB STUD ATTACHMENT

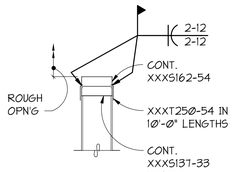
2 S1.1 DETAIL
NO SCALE



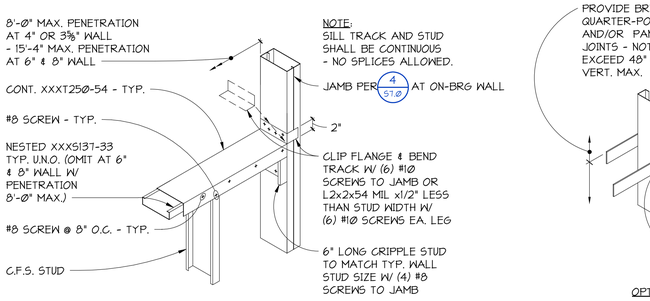
ⓐ TYPICAL COLD-FORMED STEEL BOTTOM/TOP TRACK SPLICE

ⓑ TYPICAL COLD-FORMED STEEL WALL CORNER

3 S1.1 DETAIL
NO SCALE

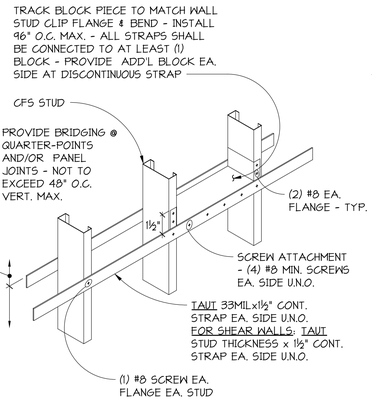


ⓐ ALTERNATE ALLOWED CONDITION AT DISCONTINUOUS TRACK PIECE

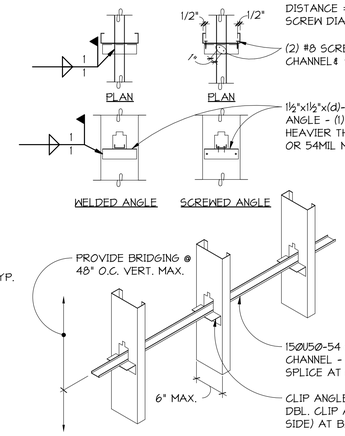


TYPICAL SILL AT COLD-FORMED STEEL WALL PENETRATION AT 16'-0" MAXIMUM STUD HEIGHT

4 S1.1 DETAIL
NO SCALE



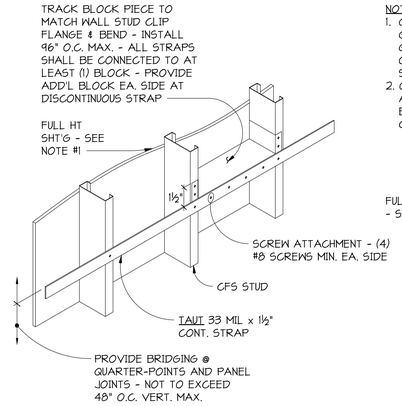
OPTION 1: BRIDGING CONSISTS OF DOUBLE FLAT STRAP WITH BLOCKING FOR BEARING & SHEAR WALLS



OPTION 2: BRIDGING CONSISTS OF COLD-ROLLED CHANNEL WITH CLIP ANGLE (6" MAXIMUM STUD SIZE)

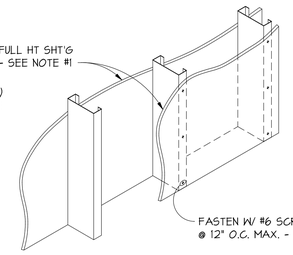
TYPICAL BRIDGING AT COLD-FORMED STEEL WALL

5 S1.1 DETAIL
NO SCALE

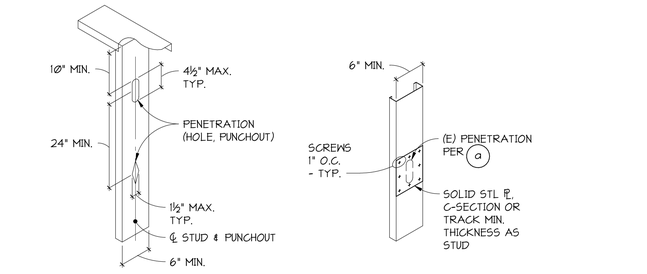


OPTION 3: BRIDGING CONSISTS OF SINGLE FLAT STRAP WITH BLOCK AND FULL HEIGHT SHEATHING OPPOSITE FACE

NOTES:
1. QUALIFIED SHEATHING SHALL BE GYPSUM WALL BOARD, GYPSHEATHING, PLYWOOD, OR ORIENTED STRAND BOARD ONLY AND SHALL OCCUR FULL HEIGHT OF WALL.
2. OPTIONS 2, 3, AND 4 ARE NOT ALLOWED FOR STUD BRACING AT BEARING OR SHEAR WALL CONDITIONS.



OPTION 4: FULL HEIGHT SHEATHING EACH FACE

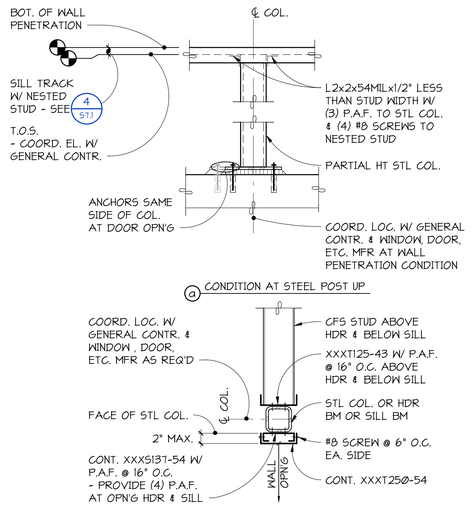


ⓐ TYPICAL ALLOWABLE COLD-FORMED STEEL STUD PUNCHOUT

ⓑ TYPICAL INFILL OF FACTORY COLD-FORMED STEEL STUD PUNCHOUT

ⓒ TYPICAL ALLOWABLE COLD-FORMED STEEL JOIST PUNCHOUT

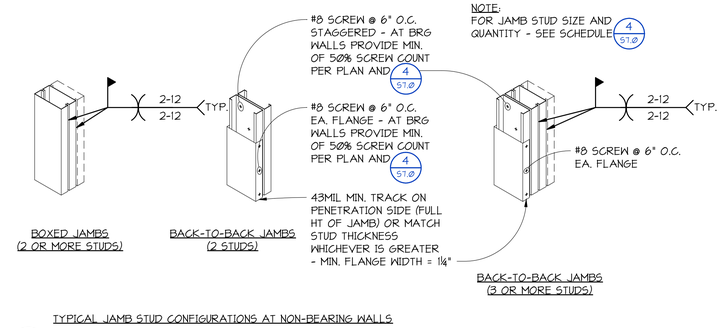
6 S1.1 DETAIL
NO SCALE



ⓐ CONDITION AT STEEL POST UP

ⓑ CONDITION AT OPENING

7 S1.1 DETAIL
NO SCALE



BOXED JAMBS (2 OR MORE STUDS)

BACK-TO-BACK JAMBS (2 STUDS)

BACK-TO-BACK JAMBS (3 OR MORE STUDS)

TYPICAL JAMB STUD CONFIGURATIONS AT NON-BEARING WALLS

8 S1.1 DETAIL
NO SCALE

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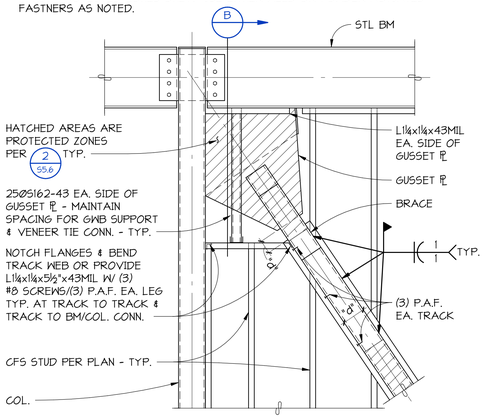
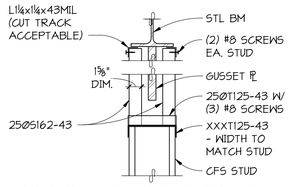
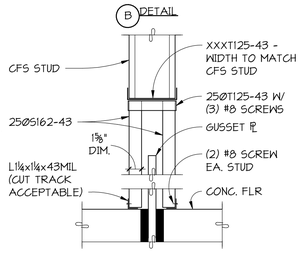
NOTES:
1. DETAIL SHOWS TOP CONDITION - BASE SIMILAR.
2. FOR TYPICAL WALL FRAMING DETAILS - SEE S7.Ø, S7.1, AND S7.2.
3. NO POWDER ACTUATED FASTENERS, SCREWS OR WELDING PERMITTED AT BRACE OR GUSSET IN PROTECTED (HATCHED) AREAS PER XX/SX.XX.
4. ATTACH TRACK TO BRACE WITH WELDS OR POWDER ACTUATED FASTENERS IN NON-PROTECTED ZONES ONLY. USE EITHER WELD OR POWDER ACTUATED FASTNERS AS NOTED.



TYPICAL COLD-FORMED STEEL STUD FRAMING AT BRACED FRAME



BRACE FRAME INFILL FRAMING AT STEEL BEAM



BRACE FRAME INFILL FRAMING AT FLOOR

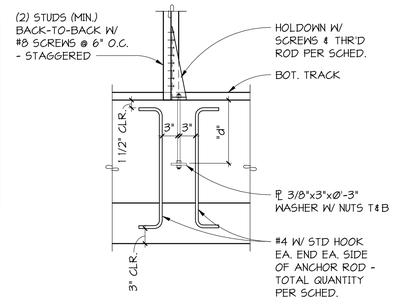
1 S7.2 SECTION
NO SCALE

TYPICAL HOLDOWNS

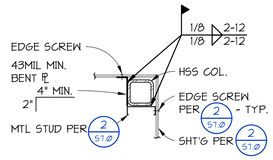
SIZE	SCREWS/ BOLTS	THREADED ROD	"d"	MIN. STUD THICKNESS
S/HD8S	(17) #14	7/8"ø	1'-3"	43 MIL
S/HD10S	(22) #14	7/8"ø	1'-3"	43 MIL
S/HD15S	(30) #14	1"ø	1'-3"	43 MIL
S/HD8B	(2) 3/4"ø	7/8"ø	1'-3"	54 MIL
S/HD10B	(3) 3/4"ø	7/8"ø	1'-3"	54 MIL
S/HD15B	(4) 3/4"ø	1"ø	1'-3"	54 MIL

NOTES:
1. SEE FOUNDATION PLANS FOR HOLDOWN LOCATIONS.
2. ALL HOLDOWNS NOT OCCURING AT WALL CORNER SHALL BE LOCATED AT THE EDGE OF A WINDOW OR A DOOR. EDGE SCREW EACH HOLDOWN STUD.
3. STEP FOOTINGS AS REQURIED TO MEET EMBEDMENT REQUIREMENTS PER 1/S3.1.

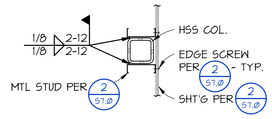
2 S7.2 DETAIL
NO SCALE



TYPICAL FOUNDATION ANCHOR ROD HOLDOWN

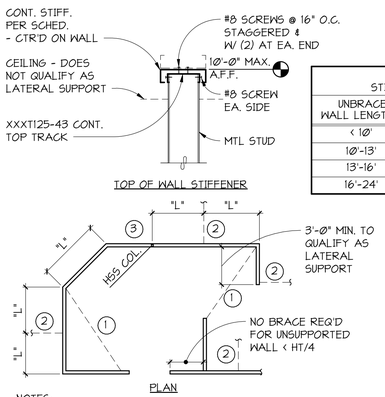


COLUMN AT PERPENDICULA SHEAR WALL



TYPICAL COLUMN AT SHEAR WALL

3 S7.2 DETAIL
NO SCALE



TOP OF WALL STIFFENER

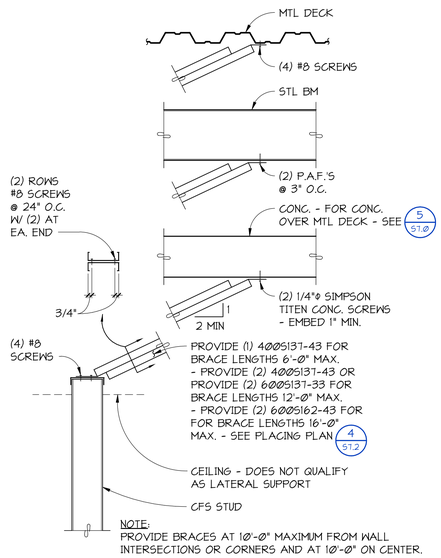
TOP OF WALL STIFFENER SCHEDULE	
UNBRACED WALL LENGTH "L"	STIFFENER MEMBER CONTINUOUS
< 10'	NONE REQ'D
10'-13'	600S137-33
13'-16'	(2) 600S137-33
16'-24'	(2) 800S162-43

PLAN

NOTES:
1. THIS PLAN IS AN EXAMPLE ONLY. IT DOES NOT REPRESENT A SPECIFIC WALL.
2. "L" INDICATES UNBRACED LENGTH OF WALLS - SEE SCHEDULE FOR TOP OF WALL STIFFENER SIZE.
3. AT CONTRACTOR'S OPTION, IN LIEU OF TOP OF WALL STIFFENER:
   (1) INDICATES HORIZONTAL BRACE EXTENDING TO ADJACENT CORNER - SEE 6/S7.2.
   (2) INDICATES BRACE UP TO STRUCTURE - SEE 5/S7.2.
   (3) INDICATES WALL BRACED AT HOLLOW STRUCTURAL SECTION COLUMN - PROVIDE L2"x2"x1/2" LESS THAN STUD WIDTH x54MIL WITH (4) #8 SCREWS TO TOP TRACK. - WELD CONNECTION ANGLE TO HOLLOW STRUCTURAL SECTION COLUMN OR PROVIDE (4) POWDER ACTUATED FASTENERS AT CONTRACTOR'S OPTION.
4. ALL TOP TRACK SPLICES SHALL BE AT BRACE LOCATIONS.

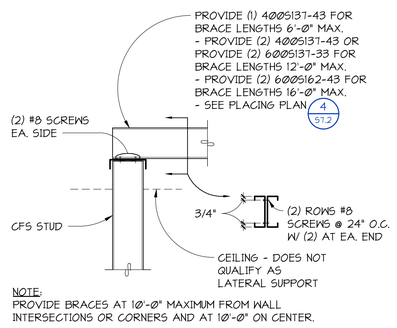
TYPICAL LATERAL SUPPORT FOR COLD-FORMED STEEL STUD WALLS NOT EXTENDING TO STRUCTURE ABOVE

4 S7.2 DETAIL
NO SCALE



TYPICAL COLD-FORMED STEEL STUD WALL BRACE UP TO STRUCTURE

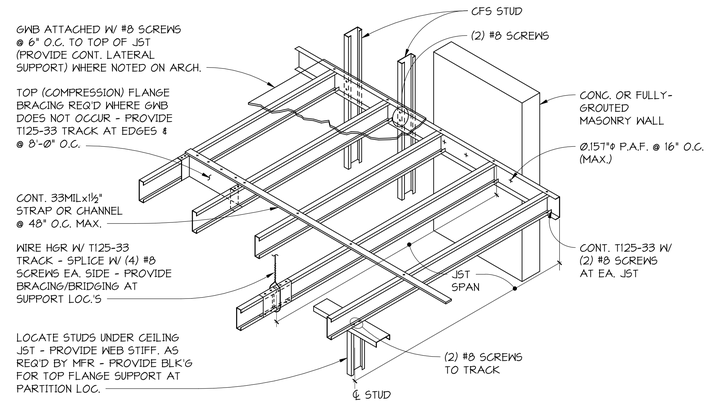
5 S7.2 DETAIL
NO SCALE



NOTE:
PROVIDE BRACES AT 10'-Ø" MAXIMUM FROM WALL INTERSECTIONS OR CORNERS AND AT 10'-Ø" ON CENTER.

TYPICAL COLD-FORMED STEEL STUD WALL HORIZONTAL BRACE

6 S7.2 DETAIL
NO SCALE



TYPICAL COLD-FORMED STEEL CEILING FRAMING DETAIL

GOLD-FORMED STEEL JOIST CEILING FRAMING SCHEDULE 10 PSF
(ASD) LIVE LOAD, 1/240 DEFLECTION LIMIT, (2) LAYERS MAXIMUM OF 5/8" GYPSUM WALL BOARD

JOIST SIZE	STUD MIL											
	18MIL						33MIL					
	JOIST SPACING											
	12" O.C.		16" O.C.		24" O.C.		12" O.C.		16" O.C.		24" O.C.	
	NUMBER OF CONTINUOUS SPANS											
	ONE	TWO+	ONE	TWO+	ONE	TWO+	ONE	TWO+	ONE	TWO+	ONE	TWO+
	MAXIMUM JOIST SPAN ALLOWED											
250S	6'-9"	6'-11	5'-4"	5'-9"	-	4'-4"	8'-3"	10'-Ø"	7'-6"	8'-9"	6'-4"	7'-1"
362S	7'-3"	6'-8"	5'-5"	5'-3"	-	-	11'-Ø"	13'-3"	10'-Ø"	11'-6"	8'-4"	9'-4"
400S	9'-Ø"	6'-3"	7'-6"	4'-10"	5'-Ø"	-	11'-11"	14'-3"	10'-10"	12'-4"	9'-Ø"	9'-9"
600S	-	-	-	-	-	-	16'-6"	16'-10"	14'-9"	13'-10"	12'-Ø"	10'-2"

NOTES:
1. BRACE TOP FLANGE AT 48" ON CENTER MAXIMUM.
2. INFORMATION SHOWN TAKEN FROM THE GYPSUM CONSTRUCTION HAND BOOK BY CGC INCORPORATED.
3. SEE ARCHITECTURAL DRAWING FOR LATERAL SUPPORT OF SUSPENDED FRAMING.

7 S7.2 DETAIL
NO SCALE

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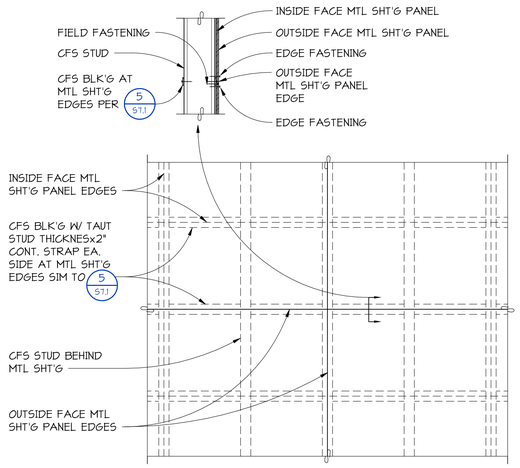
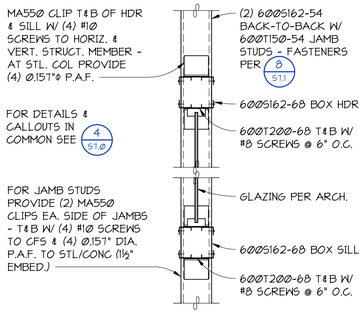


NOTE:
METAL STEEL SHEET VERTICAL AND HORIZONTAL PANEL EDGES TO BE STAGGERED

TYPICAL DOUBLE SHEATHING ON SINGLE-SIDE OF SPECIAL SHEAR WALL

1/S7.3 ELEVATION
1" = 1'-0"



TYPICAL 20'-0" LONG MAXIMUM OPENING

2/S7.3 SECTION
1" = 1'-0"

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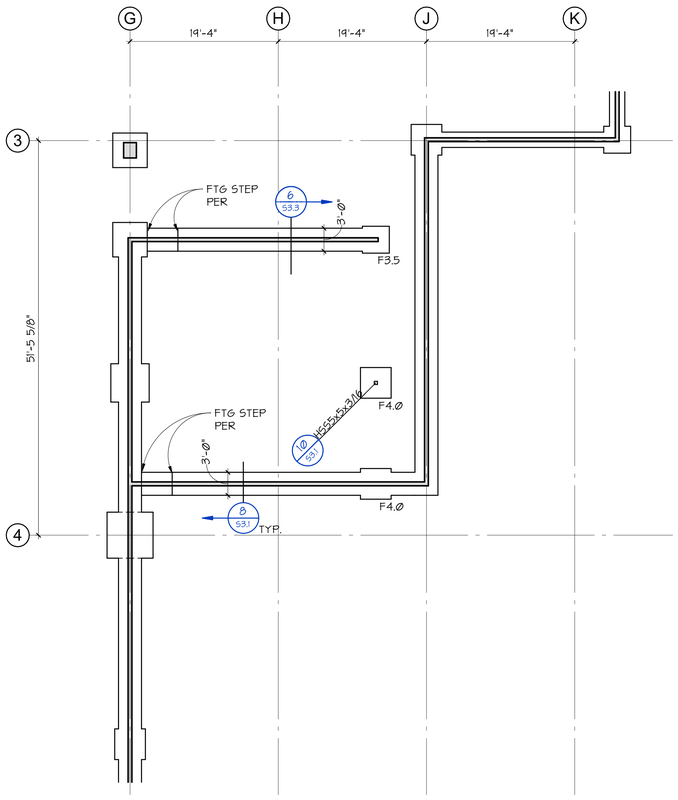

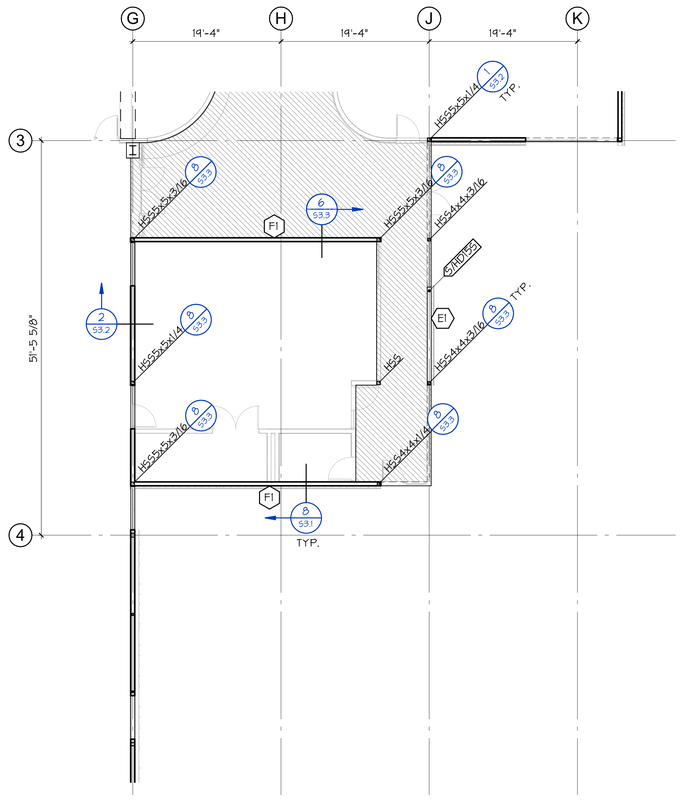

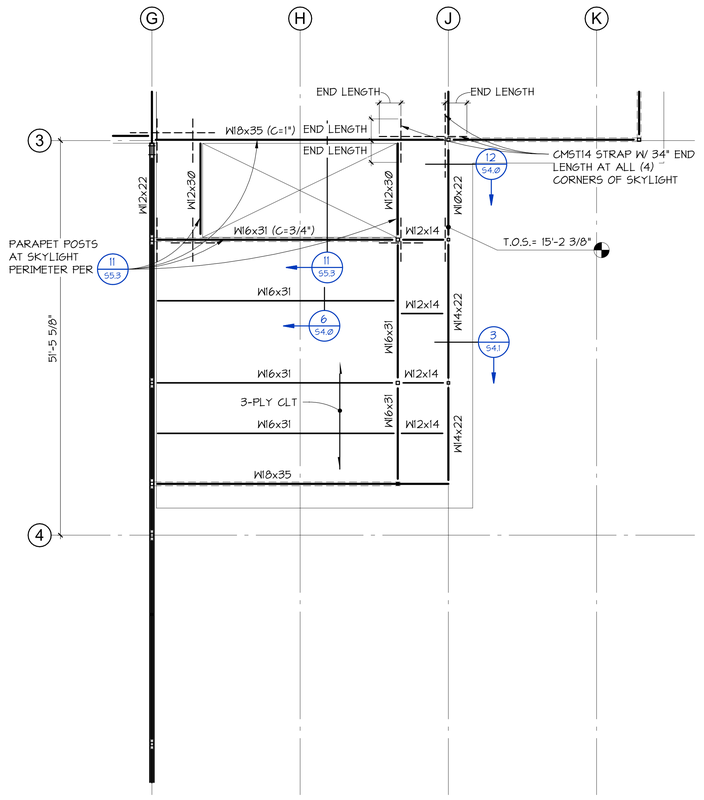

SEE SHEET S2.0 FOR FOUNDATION PLAN NOTES AND REMAINING MEMBER CALLOUTS AND DETAILS

NORTH

1 S11.1 FOUNDATION PLAN - ALTERNATIVE 1

1/8" = 1'-Ø"

SEE SHEET S2.1 FOR LEVEL 1 FRAMING PLAN NOTES AND REMAINING FRAMING MEMBER CALLOUTS AND DETAILS

NORTH

2 S11.1 LEVEL 1 FRAMING PLAN - ALTERNATIVE 1

1/8" = 1'-Ø"

SEE SHEET S2.3 FOR LOW ROOF FRAMING NOTES AND REMAINING FRAMING MEMBER CALLOUTS AND DETAILS

NORTH

3 S11.1 LOW ROOF FRAMING PLAN - ALTERNATIVE 1

1/8" = 1'-Ø"

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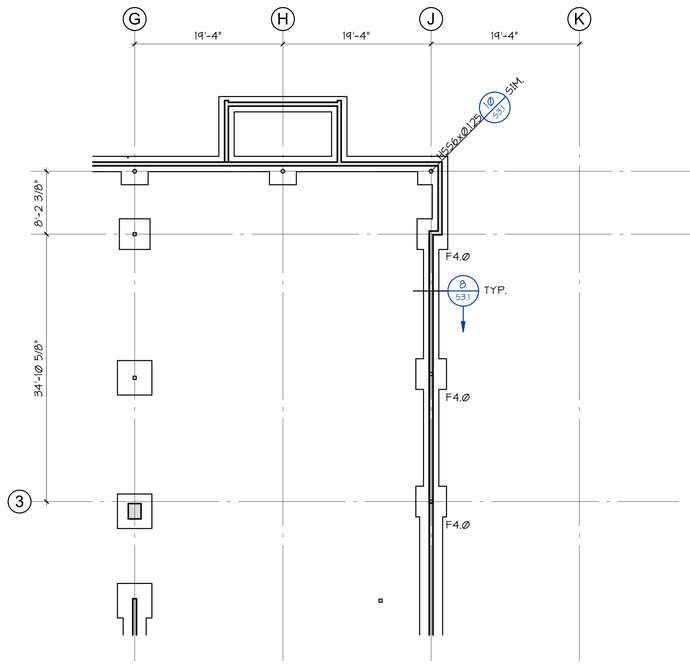
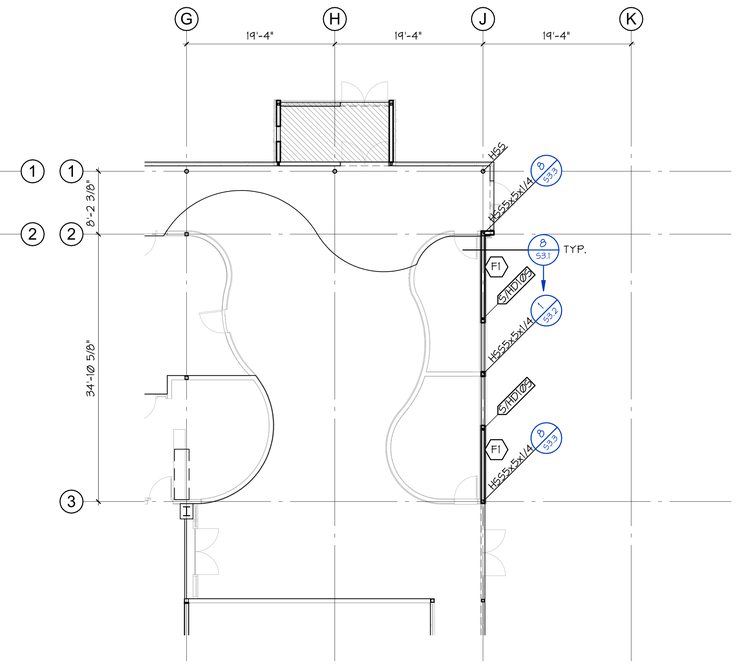


SEE SHEET S2.0 FOR FOUNDATION PLAN NOTES AND REMAINING MEMBER CALLOUTS AND DETAILS

NORTH 1 S11.2 FOUNDATION PLAN - ALTERNATIVE 2

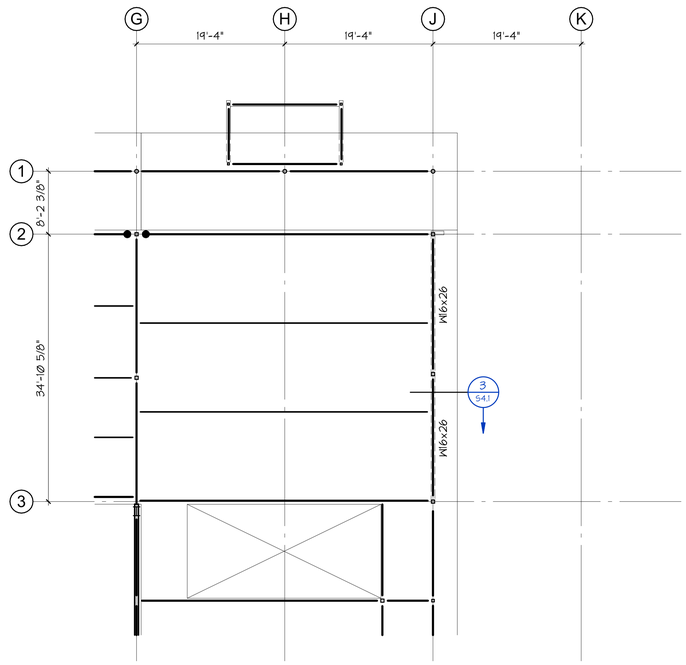
1/8" = 1'-0"



SEE SHEET S2.1 FOR LEVEL 1 FRAMING PLAN NOTES AND REMAINING FRAMING MEMBER CALLOUTS AND DETAILS

NORTH 2 S11.2 LEVEL 1 FRAMING PLAN - ALTERNATIVE 2

1/8" = 1'-0"



SEE SHEET S2.3 FOR LOW ROOF FRAMING NOTES AND REMAINING FRAMING MEMBER CALLOUTS AND DETAILS

NORTH 3 S11.2 LOW ROOF FRAMING PLAN - ALTERNATIVE 2

1/8" = 1'-0"

ISLAND COUNTY
Reviewed For
2021 IBC
Code Compliance
07/18/2025
Brian Boyle

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South Whidbey Parks & Recreation District

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description

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DEDUCTIVE ALTERNATE 2

SCALE: As indicated
DRAWN: DEH
CHECKED: CAJ
PROJECT NO: 2022021.000

SHEET: **S11.2**

C:_Revit Models\23247 SWAC R2024 (Central)_sswaney.rvt
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MECHANICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AFF	ABOVE FINISHED FLOOR
AD	ACCESS DOOR
A/C	AIR CONDITION(ED)
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSEPOWER
CD	CEILING DIFFUSER
CV	CHECK VALVE
COP	COEFFICIENT OF PERFORMANCE
CW	COLD WATER
CD	CONDENSATE DRAIN
CU	CONDENSING UNIT
CONT.	CONTINUATION
DB	DECIBEL
DIA	DIAMETER
DX	DIRECT EXPANSION
D	DROP
DB	DRY BULB
EFF	EFFICIENT
ELECT	ELECTRICAL
EER	ENERGY EFFICIENCY RATING
EAT	ENTERING AIR TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EF	EXHAUST FAN
F	FAHRENHEIT
FT	FEET
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	HEAD
HTR	HEATER
HTG	HEATING
HP	HORSEPOWER
HWC	HOT WATER COIL
IN	INCHES
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
KW	KILOWATT
LH	LATENT HEAT
LAT	LEAVING AIR TEMPERATURE
MAX	MAXIMUM
MIN	MINIMUM
MA	MIXED AIR
MD	MOTORIZED DAMPER
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO.	NUMBER
OC	ON CENTER
OBD	OPPOSED BLADE DAMPER
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
PH	PHASE
LBS.	POUNDS
PSI	POUNDS PER SQUARE INCH
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
QTY	QUANTITY
RET	RETURN
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
R	RISE
SEER	SEASONAL ENERGY EFFICIENCY RATING
SH	SENSIBLE HEAT
SOV	SHUT OFF VALVE
SF	SQUARE FEET
SP	STATIC PRESSURE
SA	SUPPLY AIR
T, TEMP	TEMPERATURE
TD	TEMPERATURE DIFFERENCE
MBH	THOUSAND BTU'S PER HOUR
TH	TOTAL HEAT
TP	TOTAL PRESSURE
V	VOLT
WC	WATER COLUMN
W	WATT
WB	WET BULB
W/	WITH

Control Symbols

- AIR TEMPERATURE SENSOR
- CARBON DIOXIDE SENSOR
- AC-1 ROOM THERMOSTAT

Dampers

- FIRE DAMPER
- FIRE/SMOKE DAMPER
- MOTORIZED DAMPER
- SMOKE DAMPER
- VOLUME DAMPER

Diffusers and Grilles

- 12x12 / 100 CD DIFFUSER OR GRILLE IDENTIFICATION
- EXHAUST AIR
- RETURN AIR
- SUPPLY AIR

Ductwork Fittings

- ACOUSTICALLY LINED DUCT (SIZES SHOWN ARE NET INSIDE)
- BELLMOUTH
- CONCENTRIC SQUARE TO ROUND
- CONCENTRIC TRANSITION, RECTANGULAR OR ROUND
- ECCENTRIC TRANSITION, RECTANGULAR OR ROUND
- FLEXIBLE CONNECTION
- NON-SYMMETRICAL WYE
- RECTANGULAR DUCT DROP
- RECTANGULAR DUCT RISER
- RECTANGULAR MAIN WITH RECTANGULAR BRANCH
- RECTANGULAR MAIN WITH ROUND BRANCH
- RECTANGULAR OFFSET LESS THAN 15%%d
- RECTANGULAR OFFSET MORE THAN 15%%d
- ROUND DUCT DROP
- ROUND DUCT RISER
- ROUND DUCT WITH ROUND BRANCH
- ROUND WYE
- SYMMETRICAL WYE
- MITERED ELBOW WITH TURNING VANES
- RADIUSED ELBOW

General

- 30X16 RECTANGULAR DUCT SIZING
- 30"Ø ROUND DUCT SIZING

Piping Fittings, Appurtenances and Equipment

- AIR SEPARATOR
- AUTOMATIC AIR VENT
- BACKFLOW PREVENTER
- CAP
- CONTINUATION
- EXPANSION JOINT
- EXPANSION LOOP
- EXPANSION TANK
- FLOW SWITCH
- HEAT EXCHANGER
- HOSE BIBB
- MANUAL AIR VENT
- PIPE DROP
- PIPE RISE
- PIPE TO DRAIN
- PRESSURE GAUGE WITH COCK
- PRESSURE RELIEF VALVE
- PRESSURE SENSOR
- SHOCK ABSORBER
- T&P RELIEF VALVE WITH PIPE TO DRAIN
- TEE DOWN ON PIPE
- TEE UP ON PIPE
- TEMPERATURE SENSOR
- TEST PORT (PETE'S PLUG OR EQUAL)
- THERMOMETER
- VENT TO ATMOSPHERE
- WATER METER

Piping Systems

- RL REFRIGERANT LIQUID
- RS REFRIGERANT SUCTION

Piping Valves

- CHECK VALVE
- GLOBE VALVE
- QUARTER TURN VALVE
- VALVE, GENERAL

GENERAL MECHANICAL NOTES

A. WHERE CEILINGS ARE PROVIDED, CENTER HVAC CEILING-MOUNTED GRILLES BETWEEN LUMINAIRES AND CEILING DEVICES AND WITHIN CEILING TILES/GRID WHERE THEY OCCUR. EVENLY SPACE SIDEWALL DIFFUSERS/GRILLES ALONG A GIVEN WALL ELEVATION. SEE ARCHITECTURAL ELEVATIONS FOR SPECIFIC LOCATIONS AND DIMENSIONS. WHERE DIFFUSERS/GRILLES ARE SHOWN ABOVE A DOOR, CENTER DEVICE ABOVE THE DOOR. COORDINATE ALL WALL LOCATIONS WITH ARCHITECTURAL ELEVATION DETAILS, PRIOR TO INSTALLATION.

B. PROVIDE ACCESS PANELS FOR ACCESS TO CONCEALED EQUIPMENT, JUNCTION BOXES, AND CONTROLS. QUANTITY AND LOCATION OF ACCESS PANELS IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH AS-BUILT CONDITIONS AND MAY NOT BE INDICATED ON THE DRAWINGS. SUBMIT PROPOSED ACCESS PANEL LAYOUT TO ARCHITECT, PRIOR TO INSTALLATION, FOR CONFIRMATION OF DESIGN INTENT.

C. INSTALL ALL EQUIPMENT SUCH THAT CODE AND MANUFACTURER REQUIRED CLEARANCES ARE MAINTAINED.

D. MAINTAIN A MINIMUM 36-INCH CLEARANCE IN FRONT OF ALL ELECTRICAL PANELS FOR HVAC EQUIPMENT, PER NEC REQUIREMENTS.

E. COORDINATE EXACT LOCATION OF AIR DISTRIBUTION GRILLES WITH ARCHITECTURAL AND REFLECTED CEILING PLANS, PRIOR TO INSTALLATION.

F. PROVIDE A MANUAL BALANCING DAMPER AT BRANCH TAKE-OFF LOCATIONS FOR ALL DUCTS REQUIRING AIR BALANCING INSTALLED ABOVE ACCESSIBLE, OR OPEN, CEILINGS.

G. PROVIDE REMOTE, CABLE-OPERATED BALANCING DAMPER FOR DUCTS SERVING GRILLES/DEVICES LOCATED IN INACCESSIBLE CEILING LOCATIONS.

H. RUNOUTS TO DIFFUSERS AND GRILLES SHALL BE THE SAME SIZE AS THE NECK DIMENSIONS SHOWN ON THE FLOORPLANS, UNLESS OTHERWISE NOTED.

I. MAINTAIN 10'-0" MINIMUM SEPARATION BETWEEN ROOF-MOUNTED EQUIPMENT AND ROOF EDGE, EXCEPT WHERE THE ARCHITECT IS SHOWING FALL PROTECTION.

J. MAINTAIN 10'-0" MINIMUM SEPARATION BETWEEN EXHAUST OUTLETS AND MECHANICAL AIR INTAKES.

K. CONDITIONS SHOWN ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT OF CONDITION IN CONFLICT WITH THE PLANS.

L. COORDINATE INSTALLATION OF DUCTWORK, PIPING, FIXTURES, EQUIPMENT, ETC. WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND FIRE PROTECTION SYSTEMS PRIOR TO INSTALLATION.

M. PROVIDE ONE BALANCING DAMPER FOR EACH AIR INLET/ OUTLET SHOWN ON PLAN. WHERE DAMPERS ARE LOCATED ABOVE INACCESSIBLE CEILING SYSTEMS, PROVIDE CEILING ACCESS PANELS FOR DAMPERS OR CONCEALED VOLUME DAMPER REGULATORS. MAINTAIN ASSEMBLY FIRE RATINGS WHERE REQUIRED.

N. INSTALL THERMOSTATS AT 48-INCHES AFF TO TOP OF SENSOR UNLESS OTHERWISE NOTED ON DRAWINGS. WHERE THERE ARE ADJACENT SWITCHES, SENSORS, CONTROLS, ETC, ALIGN THERMOSTAT, CENTERLINE TO CENTERLINE, WITH ADJACENT COMPONENTS, UNLESS OTHERWISE NOTED ON DRAWINGS.

O. COORDINATE EXACT LOCATION OF ALL CEILING GRILLES AND DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLAN, ARCHITECTURAL INTERIOR ELEVATIONS, LIGHTING, AND STRUCTURAL CONDITIONS. ARCHITECTURAL PLANS TO PROVIDE FINAL GRILLE AND DIFFUSER LOCATIONS IN THE EVENT OF A CONFLICT.

P. ALL WORK PERFORMED AND MATERIAL SUPPLIED SHALL CONFORM TO ALL STATE AND LOCAL CODES AND ALL OTHER APPLICABLE LAWS AND STATE REGULATIONS INCLUDING APPLICABLE SEISMIC ZONE REQUIREMENTS.

Q. PAINT ALL DIFFUSERS, REGISTERS AND GRILLES PER ARCHITECTURAL INSTRUCTIONS. ANY GRILLES INSTALLED IN GYPSUM BOARD WALLS AND CEILINGS ARE TO BE FURNISHED WITH FACTORY MILL OR PRIMER FINISH, READY FOR PAINTING IN THE FIELD.

R. DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INTERNAL DIMENSIONS. WHEN ACCOUSTICAL DUCT LINING IS REQUIRED INCREASE DUCT SIZE AS NECESSARY TO MAINTAIN THE CLEAR INTERNAL DIMENSIONS.

S. EQUIPMENT TO BE ACCESSIBLE FOR INSPECTION, SERVICE, REPAIR AND REPLACEMENT WITHOUT REMOVING PERMANENT CONSTRUCTION, OTHER EQUIPMENT, VENTING SYSTEMS, PIPING, OR DUCTS CONNECTED TO THE EQUIPMENT BEING SERVICED.

T. MAINTAIN MINIMUM DISTANCE OF 3-FEET BETWEEN ALL EXHAUST OUTLETS AND DOORS/OPERABLE WINDOWS.

U. FOR ALL DUCT CONNECTIONS TO MECHANICAL EQUIPMENT, PROVIDE TRANSITION FROM DUCT SIZE SHOWN TO EQUIPMENT CONNECTION SIZE.

V. ADJUST THROW OF ALL AIR DEVICES TO NOT INTERFERE WITH SUSPENDED LIGHTING.

W. FAN COIL UNITS AND ASSOCIATED PIPING IN MDF, AND IDF ROOMS ARE NOT TO BE LOCATED DIRECTLY OVER EQUIPMENT IN THE SPACE.

X. DETAILS APPLY EVEN IF NOT REFERENCED ON PLANS OR DETAILS.

Y. INSTALL 1.5X RADIUS ELBOWS WHERE SPACE ALLOWS. OTHERWISE INSTALL MITERED ELBOWS WITH TURNING VANES CONSISTENT WITH SPECIFICATIONS.

Z. DUCTS, PIPING, AND EQUIPMENT TO BE INSTALLED AS HIGH AS POSSIBLE IN SPACES UNLESS OTHERWISE NOTED.

AA. COORDINATE WITH STRUCTURAL DRAWINGS FOR ALL SLAB AND WALL PENETRATIONS.

BB. SUPPORT EQUIPMENT, DUCTS, PIPING AS SPECIFIED AND AS SHOWN IN DETAILS. ENSURE EQUIPMENT WILL OPERATE WITHOUT OBJECTIONABLE VIBRATION AND NOISE.

CC. WHERE THE INSIDE OF DUCTS ARE VISIBLE FROM GRILLES OR DIFFUSERS, PAINT VISIBLE PORTION OF INSIDE OF DUCT FLAT BLACK.

DD. PENETRATIONS THRU RATED ASSEMBLIES TO BE APPROPRIATELY SEALED.

EE. ALL HEATING AND COOLING OUTDOOR DESIGN TEMPERATURES SHALL MEET APPENDIX C - TABLE C-1, PER 2021 WSEC.

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CONTENTS:

SYMBOL LIST AND GENERAL NOTES - MECHANICAL

SCALE:
DRAWN: QB
CHECKED: TL
PROJECT NO: 2022021.000

SHEET:
M0.1

POOL DEHUMIDIFICATION UNIT SCHEDULE

		BASIS OF DESIGN		SUPPLY FAN								EXHAUST FAN							HOT WATER HEATING COIL							HEAT RECOVERY			FILTER	ELECTRICAL								
SYMBOL	AREA SERVED	MFR	MODEL	TOTAL CFM	MIN OSA CFM	ESP (IN H2O)	FAN TYPE	# OF FANS	MHP PER FAN	MAX FAN RPM	VFD (Y/N)	EA (CFM)	PURGE OSA (CFM)	FAN TYPE	# OF FANS	MHP PER FAN	MAX FAN RPM	VFD (Y/N)	MIN CAP (MBH)	WATER FLOW (GPM)	EWT (°F)	LWT (°F)	EAT (°F)	LAT (°F)	WPD (FT H2O)	HW MIN BRANCH PIPE SIZE	TYPE	% GLYCOL	TYPE	EFF MERV	VOLTS	PH	FLA	MCA	MOCP	EMERG. POWER (Y/N)	APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
DHU-1	POOL	SERESCO	NW-064	33000	12000	2	PLENUM	2	25	1800	Y	8800	25000	PLENUM	4	3	1800	Y	730	120	122	109	84	110.9	18.1	2.5	GLYCOL RUN-AROUND COIL	33% (RUN-AROUND LOOP)	PROPYLENE	13	480	3	84	91	110	Y	332"x110"x102"	13000	ALL

NOTES:
1. PROVIDE SPRING ISOLATION CURB WITH MINIMUM 0.75-INCH STATIC DEFLECTION
2. MODULATING OUTSIDE AIR WITH HEAT RECOVERY WITH PURGE
3. FULLY MODULATING EXHAUST FANS WITH PURGE
4. HEAT RECOVERY PROVIDED BY GLYCOL RUN-AROUND LOOP BETWEEN DEHUMIDIFYING OUTSIDE AIR AND EXHAUST AIR STREAMS
5. PROVIDE WITH SERVICE VESTIBULE HOUSING CONTROL VALVES, SERVICE COMPONENTS, AND ALL ELECTRONICS OUTSIDE OF PROCESS AIR STREAM
6. PROVIDE WITH REMOTE INTERNET ACCESSIBLE CONTROLLER WITH DIAGNOSTICS AND REPORTING. SECURE REMOTE ACCESS FOR SET POINT ADJUSTMENTS
7. BOTTOM RETURN AIR DUCT CONNECTION. SIDE SUPPLY DUCT CONNECTION

PACKAGED HEAT PUMP ROOFTOP UNIT SCHEDULE

		BASIS OF DESIGN		SUPPLY FAN							EXHAUST FAN					DX COOLING COIL					HEAT PUMP HEATING					
SYMBOL	AREA SERVED	MFR	MODEL	TOTAL CFM	MIN OSA CFM	DCV OSA CFM	ESP (IN H2O)	MHP	FAN RPM	VFD (Y/N)	TOTAL CFM	ESP (IN H2O)	MHP	FAN RPM	VFD (Y/N)	TOTAL CAP (MBH)	SENS CAP (MBH)	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	HTG (MBH)	AUX. HTG (KW)	STAGES	TURNDOWN RATIO	EAT (°F)	LAT (°F)
RTU-1	111 - PUMP ROOM	AAON	RQA-003	1000	1000	-	1.5	2	1760	Y	1000	1	1	1760	Y	36	30.1	82.8	65.1	54.3	52.3	26	10	2	4:1	50.9	71.8
RTU-2	096 - FITNESS	AAON	RQA-003	1500	1500	-	1.5	2	1760	Y	1200	1	1	1750	Y	36.6	32.6	81.6	64.6	56	53.9	26.4	20	2	4:1	54.5	72
RTU-3	LOCKER ROOMS	AAON	RNA-009	3000	3000	-	1.5	3	1760	Y	3000	1	3	1760	Y	93.5	85.2	82.9	65.1	56.1	54.3	59.7	40	4	4:1	51	87.7
RTU-4	018 - LOBBY - NORTH	AAON	RNA-011	4000	250	2950	1.5	5	1760	Y	4000	1	3	1760	Y	111.8	107.7	83.3	65.2	57.8	55.6	74.6	50	5	4:1	49.8	64.5
RTU-5	018 - LOBBY - SOUTH	AAON	RQA-003	1200	-	-	1.5	2	1760	Y	1200	1	1	1750	Y	36.6	32.6	81.6	64.6	56	53.9	26.4	20	2	4:1	54.5	72

NOTES:
1. MODULATING VARIABLE CAPACITY COMPRESSOR
2. PROVIDE SPRING ISOLATION CURB WITH MINIMUM 0.75-INCH STATIC DEFLECTION
3. PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT. SEE DIVISION 28 FOR ADDITIONAL INFORMATION.
4. PROVIDE ALUMINUM HEAT RECOVERY HEAT EXCHANGER
5. PROVIDE MARINE ENVIRONMENT COATING

PACKAGED HEAT PUMP ROOFTOP UNIT SCHEDULE CONT.

AIR SOURCE HEAT PUMP CONDENSER							HEAT RECOVERY									FILTER	ELECTRICAL								
								WINTER				SUMMER													
NOM TONS	QTY OF COMPRESSORS	QTY OF FANS	CLG AMBIENT DB (°F)	EER OR SEER	HTG AMBIENT DB (°F)	COP	TYPE	SA EAT (°F)	SA LAT (°F)	EA EAT (°F)	EA LAT (°F)	SA EAT (°F)	SA LAT (°F)	EA EAT (°F)	EA LAT (°F)	EFF MERV	VOLTS	PH	FLA	MCA	MOCP	EMERG. POWER (Y/N)	MAX WT (LBS)	NOTES
3	1	1	92	10.2	25	4.44	WHEEL	25	50.9	75	47.9	92	82.8	75	84	13	460	3	31	39	40	N	1300	ALL
3	1	1	92	10	25	4.3	WHEEL	25	50.4	75	41.7	92	83	75	86.1	13	460	3	31	39	40	N	1000	ALL
7.5	2	2	92	11.5	25	4.75	WHEEL	25	51	75	47.8	92	82.9	75	84.1	13	460	3	58	72	80	N	1500	ALL
10	2	2	92	10.4	25	4.91	WHEEL	25	49.8	75	49.1	92	83.3	75	83.7	13	460	3	71	74	80	Y	2250	ALL
3	1	1	92	10	25	4.3	WHEEL	25	50.4	75	41.7	92	83	75	86.1	13	460	3	31	39	40	Y	1000	ALL

AIR TO WATER HEAT PUMP SCHEDULE

		BASIS OF DESIGN					LOAD SIDE - HTG MODE							ELECTRICAL								
												HTG MODE										
SYMBOL	AREA SERVED	MFR	MODEL	NOM TONS	COMPRESSOR TYPE	REFRIGERANT TYPE	CAP. (MBH)	EWT (°F)	LWT (°F)	WATER FLOW (GPM)	WPD (FT H2O)	AMBIENT DB (°F)	COP	VOLTS	PH	MCA	MOCP	VFD (Y/N)	EMERG. POWER (Y/N)	MAX WT (LBS)	NOTES
ASHP-1	HEATING WATER	CLIMACOOL	UATS-50 ((3) 50 TON MODULES)	200	SCROLL	R-454B	1605	105	120	225	4.6	25	2.12	460	3	(3) 110.8	(3) 150	N	Y	13000	ALL

NOTES:
1. PROVIDE MARINE ENVIRONMENT COATINGS
2. (3) MODULES EACH WITH A SEPARATE POWER CONNECTION AT THE LOAD SHOWN ABOVE.
3. (2) OF THE MODULES ARE TO BE CONNECTED TO EMERGENGY POWER FOR FREEZE PROTECTION
4. 30% PROPYLENE GLYCOL SOLUTION

FAN COIL SCHEDULE (DX)

		BASIS OF DESIGN			SUPPLY FAN		DX COOLING COIL			HEAT	ELECTRICAL					
SYMBOL	AREA SERVED	MFR	MODEL	ASSOC CU	TOTAL CFM	MIN OSA CFM	NOM TONS	TOTAL CAP (MBH)	SENS CAP (MBH)	PUMP HTG (MBH)	VOLTS	PH	MCA	MOCP	MAX WT (LBS)	NOTES
FCU-1	MULTI. ROOM 1-111	LG	LCN188HV4	HP-1	459	N/A	1.5	18	14.4	21.6	208	1	0.6	15	50	2, 3
FCU-2	MULTI. ROOM 2-113	LG	LCN188HV4	HP-2	459	N/A	1.5	18	14.4	21.6	208	1	0.6	15	50	2, 3
FCU-3	AQ DIR-114	LG	LCN188HV4	HP-3	459	N/A	1.5	18	14.4	21.6	208	1	0.6	15	50	2, 3
FCU-4	LIFEGUARDS-122	LG	LCN188HV4	HP-4	706	N/A	1.5	18	14.4	21.6	208	1	0.6	15	50	2, 3
FCU-5	PARKS DIR-105	LG	LCN188HV4	HP-5	459	N/A	1.5	18	14.4	21.6	208	1	0.6	15	50	2, 3
FCU-6	PARKS BUS.-106	LG	LCN188HV4	HP-6	459	N/A	1.5	18	14.4	21.6	208	1	0.6	15	50	2, 3
FCU-7	PARKS ADMIN.-104	LG	LCN188HV4	HP-7	459	N/A	1.5	18	14.4	21.6	208	1	0.6	15	50	2, 3
FCU-8	IDF-123	LG	LCN188HV4	HP-8	459	N/A	1.5	18	14.4	21.6	208	1	0.6	15	50	2, 3
FCU-9	MTG ROOM-103	LG	KSUJB181A	HP-9	530	200	1.5	18	14.4	20	208	1	3	15	75	1, 2
FCU-10	ELEC-128	LG	LCN188HV4	HP-10	459	N/A	1.5	18	14.4	21.6	208	1	0.6	15	50	2, 3

NOTES:
1. PROVIDE WITH CONDENSATE PUMP. SHIPS LOOSE AND INSTALLED ON SITE. SEE PLUMBING PLANS FOR CONDENSATE DRAIN ROUTING
2. OUTSIDE AIR SUPPLIED DIRECTLY TO THE SPACE VIA A SEPARATE SYSTEM
3. PROVIDE WITH INTEGRAL CONDENSATE PUMP. SEE PLUMIBNG PLANS FOR CONDENSATE DRAIN ROUTING.

HEAT PUMP CONDENSING UNIT SCHEDULE

		BASIS OF DESIGN			AIR SOURCE HEAT PUMP CONDENSER						ELECTRICAL					
						COOLING		HEATING								
SYMBOL	AREA SERVED	MFR	MODEL	ASSOC FAN	NOM TONS	CAP (MBH)	AMBIENT DB (°F)	EER	CAP (MBH)	HSPF	VOLTS	PH	MCA	MOCP	MAX WT (LBS)	NOTES
HP-1	MULTI. ROOM 1-111	LG	LSU180	FCU-1	1.5	18	92	13	21.6	10.2	208	1	13	20	150	ALL
HP-2	MULTI. ROOM 2-113	LG	LSU180	FCU-2	1.5	18	92	13	21.6	10.2	208	1	13	20	150	ALL
HP-3	AQ DIR-114	LG	LSU180	FCU-3	1.5	18	92	13	21.6	10.2	208	1	13	20	150	ALL
HP-4	LIFEGUARDS-122	LG	LSU180	FCU-4	1.5	18	92	13	21.6	10.2	208	1	13	20	150	ALL
HP-5	PARKS DIR-105	LG	LSU180	FCU-5	1.5	18	92	13	21.6	10.2	208	1	13	20	150	ALL
HP-6	PARKS BUS.-106	LG	LSU180	FCU-6	1.5	18	92	13	21.6	10.2	208	1	13	20	150	ALL
HP-7	PARKS ADMIN.-104	LG	LSU180	FCU-7	1.5	18	92	13	21.6	10.2	208	1	13	20	150	ALL
HP-8	IDF-123	LG	LSU180	FCU-8	1.5	18	92	13	21.6	10.2	208	1	13	20	150	ALL
HP-9	MTG ROOM-103	LG	KSUJB181A	FCU-9	1.5	18	92	13	20	10	208	1	16	25	150	ALL
HP-10	ELEC-128	LG	LSU180	FCU-10	1.5	18	92	13	21.6	10.2	208	1	13	20	150	ALL

NOTES:
1. PROVIDE SPRING ISOLATION SUPPORTS WITH MINIMUM 0.75-INCH STATIC DEFLECTION
2. OUTDOOR UNIT POWERS INDOOR UNIT.

DIFFUSER, REGISTER AND GRILLE SCHEDULE

SYMBOL	TYPE	FACE	FRAME	DAMPER	FINISH	BASIS OF DESIGN	NOTES
CD-1	CEILING DIFFUSER	PERFORATED	LAY-IN	NONE	WHITE	TITUS PCS	2
CD-2	CEILING DIFFUSER	PERFORATED	SURFACE	OBD	WHITE	TITUS PCS	2
CRG-1	CEILING RETURN GRILLE	PERFORATED	LAY-IN	NONE	WHITE	TITUS PAR	2
CRG-2	CEILING RETURN GRILLE	PERFORATED	SURFACE	NONE	WHITE	TITUS PAR	2
CEG-1	CEILING EXHAUST GRILLE	PERFORATED	LAY-IN	NONE	WHITE	TITUS PAR	2
CEG-2	CEILING EXHAUST GRILLE	PERFORATED	SURFACE	NONE	WHITE	TITUS PAR	2
DL-1	DRUM LOUVER	VERT. ADJUST	1/4" BORDER	NONE	WHITE	TITUS DL	2
EG-1	EXHAUST GRILLE	FIXED BAR	1/4" BORDER	NONE	WHITE	TITUS 350R	2
EG-2	EXHAUST GRILLE	FIXED BAR	1/4" BORDER	NONE	WHITE	TITUS 63F	2, 4, 5
RG-1	RETURN GRILLE	FIXED BAR 35 DEG. DEFL.	1/4" BORDER	NONE	WHITE	TITUS 350R	2
SG-1	SUPPLY GRILLE	DOUBLE DEFL.	1/4" BORDER	NONE	WHITE	TITUS 300R	2
SG-2	DUCT MOUNTED SUPPLY GRILLE	DOUBLE DEFL.	1/4" BORDER	NONE	WHITE	TITUS S300FL	1, 2, 3
SD-1	ADJUSTABLE LINEAR SLOT DIFFUSER	2-SLOT, 1 INCH	T-BAR	NONE	WHITE	TITUS ML-39	1, 2
LS-1	ARCHITECTURAL LINEAR DIFFUSER	2-SLOT, 1 INCH	SURFACE	NONE	NOTE 4	TITUS FL-10	2

NOTES:
1. INSULATED FACTORY PLENUM.
2. COORDINATE EXACT QUANTITY, DIMENSIONS, FRAME, AND DAMPER REQUIREMENTS WITH OVERALL MECHANICAL AND ARCHITECTURAL CEILING PLANS AND INTERIOR ELEVATIONS.
3. PROVIDE OPTIONAL AIR SCOOP DAMPER (ASD)
4. COORDINATE COLOR/FINISH WITH ARCHITECT
5. RETURN/EXHAUST DEVICES SERVING POOL AREA TO BE ALUMINUM REINFORCED "GYMNASIUM" GRILLE WITH ANODIZED FINISH AND 30 DEG DEFLECTION.

FAN SCHEDULE

		BASIS OF DESIGN				AIR FLOW (CFM)	TSP (IN H2O)	FAN RPM	SOUND (SONES)	ELECTRICAL					VFD (Y/N)	STARTER (Y/N)	EMERG. POWER (Y/N)	MAX WT (LBS)	
SYMBOL	AREA SERVED	MFR	MODEL	TYPE	DRIVE					VOLTS	PH	MHP	FLA	MCA					NOTES
EF-1	PROG STOR-132,AQ STOR-127	GREENHECK	G-090-VG	DOWNBLAST	DIRECT	575	0.5	1450	6.7	120	1	1/10	1.5	N	N	N	N	100	1,5,7
EF-2	PUMP ROOM-126	PLASTIC AIR	BIF-18	INLINE	DIRECT	700	0.5	1600	19	120	1	1/3	-	N	N	N	N	170	2,3
EF-3	CHEM 2-131	PLASTIC AIR	BIF-18	INLINE	DIRECT	300	0.5	1150	19	120	1	1/3	-	N	N	N	N	170	2,3
EF-4	CHEM 1-130	PLASTIC AIR	BIF-18	INLINE	DIRECT	300	0.5	1150	19	120	1	1/3	-	N	N	N	N	170	2,3
EF-5	POOL	GREENHECK	SQ-15-M2-VG	INLINE	DIRECT	3000	0.75	1477	13.3	208	3	1	3.6	N	N	N	N	150	1,4,7
EF-6	WC-109	GREENHECK	G-070-VG	DOWNBLAST	DIRECT	150	0.35	1455	3.7	120	1	1/15	1.3	N	N	N	N	75	1,5,7
EF-7	EXISTING MAINTENANCE BLDG	PLASTEC	PLASTEC 20	BLOWER	DIRECT	300	0.5	1120	65 (dbA)	120	1	1/4	-	N	N	N	N	22	3,9,10
HVLS-1	NATATORIUM DECK - 124	BIG ASS FAN	POWERFOIL D - 12FT	HIGH VOLUME - LOW SPEED	DIRECT	-	-	145	-	277	1	1-1/2	5.4	N	N	N	N	275	1,6,7,8
HVLS-2	NATATORIUM DECK - 124	BIG ASS FAN	POWERFOIL D - 12FT	HIGH VOLUME - LOW SPEED	DIRECT	-	-	145	-	277	1	1-1/2	5.4	N	N	N	N	275	1,6,7,8

NOTES:
1. PROVIDE WITH VARIABLE SPEED CONTROLLER
2. SIDE MOUNTED MOTOR
3. FIBER REINFORCED PLASTIC CONSTRUCTION
4. HI-PRO POLYESTER CHEMICAL RESISTIVE COATED
5. PROVIDE WITH FACTORY-MOUNTED ROOF CURB
6. CHEMICAL RESISTIVE COATED
7. FACTORY PROVIDED ELECTRONICALLY COMMUTATED MOTOR (ECM)
8. HVLS FANS TO BE TESTED AND LABELED IN ARRORDANCE WITH AMCA 230.
9. PROVIDE WITH 24-HOUR TIMER.
10. PROVIDE W/ BACKDRAFT DAMPER.

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Scott Whidbey PARKS & RECREATION DISTRICT

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ISSUE DATE: JUNE 2, 2025

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SCHEDULES - MECHANICAL

SCALE: 12" = 1'-0"
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ENERGY RECOVERY UNIT SCHEDULE

		BASIS OF DESIGN		SUPPLY FAN					EXHAUST FAN					HEAT RECOVERY										ELECTRICAL							
															WINTER				SUMMER													
SYMBOL	AREA SERVED	MFR	MODEL	TOTAL CFM	MIN OSA CFM	ESP (IN H2O)	MHP	FAN RPM	VFD (Y/N)	TOTAL CFM	ESP (IN H2O)	MHP	FAN RPM	VFD (Y/N)	TYPE	SA EAT (°F)	SA LAT (°F)	EA EAT (°F)	EA LAT (°F)	SA EAT (°F)	SA LAT (°F)	EA EAT (°F)	EA LAT (°F)	SENSIBLE RECOVERY (%)	VOLTS	PH	FLA	MCA	MOCP	APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
ERV-1	MULTI. ROOMS-111,113	AMERICAN ALDES	INSPIRAIR - PA15	600	600	0.89	0.75	989	Y	600	0.89	0.75	989	Y	ALUM FIXED PLATE	23	48.9	70	53.5	92	82.2	75	84.8	68.0	208	1	16.2	18.2	25	87"x39"x45"	1000	1, 2, 3, 5
ERV-2	AQ DIR-114, LIFEGUARDS-122	AMERICAN ALDES	H280-SRG	250	250	0.2	-	-	N	250	0.2	-	-	N	PLYPROPYLENE	-	-	-	-	-	-	-	-	75.0	120	1	-	2.89	-	32"x22"x18"	100	2, 4
ERV-3	PARKS ADMIN OFFICES-104/105/106, MTG ROOM-103	AMERICAN ALDES	INSPIRAIR - PA15	500	500	0.89	0.75	970	Y	500	0.89	0.75	970	Y	ALUM FIXED PLATE	23	55	70	48	92	81.8	75	85.2	68.0	208	1	16.2	18.2	25	87"x39"x45"	1000	1, 2, 3, 5

NOTES:
1. DIRECT DRIVE, PSC, VARIABLE SPEED SUPPLY AND EXHAUST FANS
2. MERV 13 FILTERS
3. MOUNT ON SPRING ISOLATORS WITH MINIMUM 2" STATIC DEFLECTION.
4. SUSPEND BY CHAINS WITH VIBRATION-ISOLATING SPRINTS.
5. PROVIDE MANUFACTURER-PROVIDED ELECTRIC HEAT WITH SCR CONTROL.

BOILER SCHEDULE

		BASIS OF DESIGN		CAPACITY								ELECTRICAL						
EQUIPMENT TAG	LOCATION	MFR	MODEL	MBH	KW	NO. STEPS	FLOW RATE (GPM)	ENTER WATER TEMP. (°F)	LEAVING WATER TEMP. (°F)	WATER VOLUME (GAL)	WPD (FT H2O)	HW CONN SIZE	VOLTS	PH	FLA	CONTROLS REF	APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
EB-1	MECHANICAL ROOM	CLEAVER BROOKS	WB-201	1229	360	8	250	100	120	78	-	4	480	3	434	BACNET	80"x52"x47"	3000	ALL

NOTES:
1. COORDINATE INSTALLATION OF ELECTRICAL DISCONNECT WITH DIV. 26 PRIOR TO INSTALLATION.
2. PROVIDE HOUSEKEEPING PAD FOR UNIT MOUNTING, EXTENDING MINIMUM 6 INCHES FROM EACH SIDE.

PUMP SCHEDULE

		BASIS OF DESIGN						ELECTRICAL						
SYMBOL	AREA SERVED	MFR	MODEL	PUMP TYPE	RPM	FLOW RATE (GPM)	HEAD (FT. H2O)	VOLTS	PH	MHP	VFD (Y/N)	EMERG. POWER (Y/N)	MAX WT (LBS)	NOTES
HWP-1	HEATING	TACO	KS SERIES	INLINE	1760	350	70	460	3	15	Y	Y	800	1,2,3,4,5,6
HWP-2	HEATING	TACO	KS SERIES	INLINE	1760	350	70	460	3	15	Y	Y	800	1,2,3,4,5,6
P-1	PRIMARY HEATING	TACO	KS SERIES	INLINE	1760	420	40	460	3	7.5	Y	Y	800	1,2,3,4,5,6,7
P-2	PRIMARY HEATING	TACO	KS SERIES	INLINE	1760	420	40	460	3	7.5	Y	Y	800	1,2,3,4,5,6,7
BCP-1	BOILER CIRC	TACO	SKS3006D	INLINE	1760	125	15	480	3	1.5	Y	N	50	1,3,4,5,6

NOTES:
1. FOR PUMPS WITH VFD MOTORS, DO NOT CUT THE SPECIFIED IMPELLER SIZE FOR SYSTEM BALANCING
2. LEAD/STANDBY OEPRATION
3. VFD INTEGRAL TO PUMP
4. SELF-SENSING PUMP SPEED CONTROL
5. PROVIDE SPRING ISOLATION HANGERS WITH MINIMUM 0.75-INCH STATIC DEFLECTION
6. 30% GLYCOL SOLUTION
7. PROVIDE VFD WITH NEMA-3R OUTDOOR ENCLOSURE

ELECTRIC HEATER SCHEDULE

		BASIS OF DESIGN			ELECTRICAL					
SYMBOL	AREA SERVED	MFR	MODEL	TYPE	VOLTS	PH	HEAT KW	STAGES	MAX WT (LBS)	NOTES
WH-1	RISER-129	QMARK	CWH1000	SURFACE	120	1	1.5	1	50	1, 2
WH-2	VESTIBULE	QMARK	CWH1000	RECESSED WALL	120	1	1.5	1	50	1, 2
WH-3	PROG STORAGE-132	QMARK	CWH1000	SURFACE	120	1	1.5	1	50	1, 2
WH-4	PUMP ROOM-126	QMARK	CWH3000	SURFACE	277	1	4.0	1	50	1, 2
WH-5	FIELD HOUSE - WATER FILTER	QMARK	CWH3000	SURFACE	208	1	4.0	1	50	1, 2

NOTES:
1. PROVIDE WITH INTEGRAL THERMOSTAT
2. MOUNT SO BOTTOM EDGE IS 12 INCHES AFF UNLESS OTHERWISE NOTED ON PLANS.

LOUVER SCHEDULE

		BASIS OF DESIGN					FRAME SIZE		
EQUIPMENT TAG	AREA SERVED	MFR	MODEL	TYPE	AIR FLOW (CFM)	MAX APD (IN H2O)	MIN % FREE AREA	WIDTH (IN)	HEIGHT (IN)	NOTES
L-1	CHEM	RUSKIN	ELF6350DMP	EXHAUST	300	0.1	50	18	18	1,2,3,4
L-2	CHEM	RUSKIN	ELF6350DMP	EXHAUST	300	0.1	50	18	18	1,2,3,4
L-3	PUMP	RUSKIN	ELF6350DMP	EXHAUST	700	0.1	50	30	18	1,2,3,4
L-4	DRYER	RUSKIN	ELF6350DMP	EXHAUST		0.1	50	18	12	1,2,3,4
PL-1	POOL	RUSKIN	ELF6350DMP	EXHAUST	11000	0.2	62	24	94	1,2,3
PL-2	POOL	RUSKIN	ELF6350DMP	EXHAUST	11000	0.2	62	22	94	1,2,3
PL-3	POOL	RUSKIN	ELF6350DMP	EXHAUST	11000	0.2	62	24	94	1,2,3

NOTES:
1. LOUVER TO BE STATIONARY AND DRAINABLE
2. FINISH TO BE FACTORY COLOR ANODIZED. COLOR TO BE COORDINATED WITH ARCHITECT PRIOR TO ORDERING.
3. MATERIAL: CONSTRUCT OF ALUMINUM EXTRUSIONS, ASTM B221, ALLOY 6063-T5. WELD UNITS OR USE STAINLESS STEEL FASTENERS.
4. ON INSIDE FACE OF EXTERIOR LOUVERS, PROVIDE ANODIZED ALUMINUM WIRE BIRD SCREEN MOUNTED IN REMOVABLE EXTRUDED ALUMINUM FRAMES

EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	ELECTRICAL	BASIS OF DESIGN
BT-1	HEATING WATER BUFFER TANK, 700GAL, VERTICAL; 11,000 LBS FILLED WEIGHT.	--	TACO BTL-700
ET-1	EXPANSION TANK, 132 GAL ACCEPTANCE VOLUME, VERTICAL; 1,417 LBS FILLED WEIGHT.	--	BELL & GOSSETT B-500
ADS	COMBINATION AIR AND DIRT SEPARATOR	--	SPIROTHERM VDN
GF-1	GLYCOL FEED SYSTEM 1.5 GPM @ 100 PSI PUMP, 18 GAL TANK.	115 V/ 1 PHASE 1/3 HP	WESSELS GMP-18
DHU-2	DEHUMIDIFIER - 37 PINTS/DAY - WALL MOUNTED @ 24" AFF ROUTE CONDENSATE TO GRADE	120 V / 1 PHASE MCA=2.2A / MOCP=15A	SANTA FE ULTRA MD33

PLATE AND FRAME HEAT EXCHANGER SCHEDULE

		BASIS OF DESIGN				HOT SIDE						COLD SIDE								
SYMBOL	AREA SERVED	MFR	MODEL	CAP (MBH)	PLATE MATERIAL	FLUID	FLOW RATE (GPM)	WPD (FT H2O)	EWT (°F)	LWT (°F)	CONN SIZE	FLUID	FLOW RATE (GPM)	WPD (FT H2O)	EWT (°F)	LWT (°F)	CONN SIZE	ELECTRICAL	APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
HX-1	TEACHING POOL	TACO	PF 22-47-2-EH	600	TITANIUM	30% PROP.	100	12	120	100	2"	WATER	98	11	85	115	2"	NA	26"x12"x45"	340	1,2
HX-2	AP POOL	TACO	PF 22-51-2-EH	800	TITANIUM	30% PROP.	100	11	120	100	2"	WATER	98	10	82	112	2"	NA	26"x12"x45"	350	1,2
HX-3	SPA	TACO	PF 22-21-2-EH	400	TITANIUM	30% PROP.	30	10	120	100	2"	WATER	28	10	90	120	2"	NA	16.5"x12"x45"	270	1,2

NOTES:
1. TITANIUM OR HASTELLOY C-22 PLATES (EPDM GASKETS) AND WETTED CONNECTIONS ON POOL WATER SIDE.
2. 30% GLYCOL ON THE HOT SIDE

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EXHAUST VENTILATION SCHEDULE

HVAC UNIT	ROOM	NET OCCUPIABLE FLOOR AREA (SF)	EXHAUST AIRFLOW RATE (CFM/SF)	# OF UNITS	EXHAUST AIRFLOW RATE (CFM/UNIT)	REQUIRED EXHAUST AIRFLOW (CFM)	PROVIDED EXHAUST AIRFLOW (CFM)
						0	
EF-1	AQ STORAGE - 127	282	1.50			423	450
	PROG STOR - 132	110	1.00			110	125
					TOTAL:	**533**	**575**
EF-2	PUMP ROOM - 126	902	0.75			677	700
EF-3	CHEM 2 - 131	63	1.50			95	300
EF-4	CHEM 1 - 130	55	1.50			83	300
EF-5	POOL	11,178	0.25			2795	3000
EF-6	WC - 109	59		1.00	70	70	150
RTU-3	M LOCKER RM-116 (SHOWERS)	245		7.00	50	350	400
	M LOCKER RM-116 (TOILETS)	311		3.00	70	210	400
	M LOCKER RM-116	312	0.50			156	400
	UNIV. CHANGING-117	481				0	250
	W LOCKER RM-118 (SHOWERS)	306		9.00	50	450	400
	W LOCKER RM-118 (TOILETS)	318		4.00	70	280	400
	W LOCKER RM-118	353	0.50			177	400
	R.R.1 - 119	69		1.00	70	70	100
	R.R.2 - 120	80		1.00	70	70	100
	R.R.3 - 121	111		1.00	70	70	100
	JANITOR	17	1.00			17	50
					TOTAL:	**1850**	**3000**

NOTES:
1 UNIT RATE BASED ON 70 CFM PER WATER CLOSET OR URINAL.
2 UNIT RATE BASED ON 50 CFM PER SHOWER HEAD.

OUTSIDE AIR VENTILATION SCHEDULE - SINGLE ZONE SYSTEMS

EQUIPMENT TAG	ROOM	Az NET OCCUPIABLE FLOOR AREA (SF)	DEFAULT OCCUPANT DENSITY (#/1000SF)	Rp PEOPLE OUTDOOR AIR RATE (CFM / PERSON)	Ra AREA OUTDOOR AIR FLOW RATE (CFM/SQ FT)	DEFAULT ZONE POPULATION	Pz ACTUAL ZONE POPULATION	Vbz BREATHING ZONE OUTDOOR AIRFLOW (CFM)	EZ ZONE AIR DISTRIBUTION EFFECTIVENESS	Voz ZONE OUTDOOR AIRFLOW (CFM)	INCR. OSA (%)	DESIGN OSA (CFM)
ASHP-1 / DHU-1	TEACHING POOL-1	2064	0	0.00	0.48	0	42	991	0.8	1,238	87%	2,320
	LAP POOL-2	3512	0	0.00	0.48	0	71	1,686	0.8	2,107	85%	3,900
	NATATORIUM DECK-124	5203	0	0.00	0.48	0	347	2,497	0.8	3,122	85%	5,780
NOTES:												**TOTAL:**
1	BREATHING ZONE OUTDOOR AIRFLOW: Vbz = Rp*Pz + Ra*Az.											12,000
2	ZONE OUTDOOR AIRFLOW: Voz= Vbz/Ez.											

OUTSIDE AIR VENTILATION SCHEDULE - SINGLE ZONE SYSTEMS

EQUIPMENT TAG	ROOM	Az NET OCCUPIABLE FLOOR AREA (SF)	DEFAULT OCCUPANT DENSITY (#/1000SF)	Rp PEOPLE OUTDOOR AIR RATE (CFM / PERSON)	Ra AREA OUTDOOR AIR FLOW RATE (CFM/SQ FT)	DEFAULT ZONE POPULATION	Pz ACTUAL ZONE POPULATION	Vbz BREATHING ZONE OUTDOOR AIRFLOW (CFM)	EZ ZONE AIR DISTRIBUTION EFFECTIVENESS	Voz ZONE OUTDOOR AIRFLOW (CFM)	INCR. OSA (%)	DESIGN OSA (CFM)
ERV-1	MULTI. ROOM 1-111	511	30	5.00	0.06	16	35	206	0.8	257	15%	300
	MULTI. ROOM 2-113	489	30	5.00	0.06	15	35	204	0.8	255	17%	300
NOTES:												**TOTAL:**
1	BREATHING ZONE OUTDOOR AIRFLOW: Vbz = Rp*Pz + Ra*Az.											600
2	ZONE OUTDOOR AIRFLOW: Voz= Vbz/Ez.											

OUTSIDE AIR VENTILATION SCHEDULE - SINGLE ZONE SYSTEMS

EQUIPMENT TAG	ROOM	Az NET OCCUPIABLE FLOOR AREA (SF)	DEFAULT OCCUPANT DENSITY (#/1000SF)	Rp PEOPLE OUTDOOR AIR RATE (CFM / PERSON)	Ra AREA OUTDOOR AIR FLOW RATE (CFM/SQ FT)	DEFAULT ZONE POPULATION	Pz ACTUAL ZONE POPULATION	Vbz BREATHING ZONE OUTDOOR AIRFLOW (CFM)	EZ ZONE AIR DISTRIBUTION EFFECTIVENESS	Voz ZONE OUTDOOR AIRFLOW (CFM)	INCR. OSA (%)	DESIGN OSA (CFM)
ERV-2	AQ DIR-114	304	30	5.00	0.06	10	12	78	0.8	98	25%	125
	LIFEGUARDS-122	344	30	5.00	0.06	11	12	81	0.8	101	20%	125
NOTES:												**TOTAL:**
1	BREATHING ZONE OUTDOOR AIRFLOW: Vbz = Rp*Pz + Ra*Az.											250
2	ZONE OUTDOOR AIRFLOW: Voz= Vbz/Ez.											

OUTSIDE AIR VENTILATION SCHEDULE - SINGLE ZONE SYSTEMS

EQUIPMENT TAG	ROOM	Az NET OCCUPIABLE FLOOR AREA (SF)	DEFAULT OCCUPANT DENSITY (#/1000SF)	Rp PEOPLE OUTDOOR AIR RATE (CFM / PERSON)	Ra AREA OUTDOOR AIR FLOW RATE (CFM/SQ FT)	DEFAULT ZONE POPULATION	Pz ACTUAL ZONE POPULATION	Vbz BREATHING ZONE OUTDOOR AIRFLOW (CFM)	EZ ZONE AIR DISTRIBUTION EFFECTIVENESS	Voz ZONE OUTDOOR AIRFLOW (CFM)	INCR. OSA (%)	DESIGN OSA (CFM)
ERV-3	MTG. ROOM-103	458	30	5.00	0.06	14	18	117	0.8	147	50%	225
	PARKS ADMIN-104	300	30	5.00	0.06	9	12	78	0.8	98	50%	150
	PARKS DIR.-105	146	5	5.00	0.06	1	3	24	0.8	30	50%	45
	PARKS BUS.-106	132	30	5.00	0.06	4	6	38	0.8	47	60%	80
NOTES:												**TOTAL:**
1	BREATHING ZONE OUTDOOR AIRFLOW: Vbz = Rp*Pz + Ra*Az.											500
2	ZONE OUTDOOR AIRFLOW: Voz= Vbz/Ez.											

OUTSIDE AIR VENTILATION SCHEDULE - SINGLE ZONE SYSTEMS

EQUIPMENT TAG	ROOM	Az NET OCCUPIABLE FLOOR AREA (SF)	DEFAULT OCCUPANT DENSITY (#/1000SF)	Rp PEOPLE OUTDOOR AIR RATE (CFM / PERSON)	Ra AREA OUTDOOR AIR FLOW RATE (CFM/SQ FT)	DEFAULT ZONE POPULATION	Pz ACTUAL ZONE POPULATION	Vbz BREATHING ZONE OUTDOOR AIRFLOW (CFM)	EZ ZONE AIR DISTRIBUTION EFFECTIVENESS	Voz ZONE OUTDOOR AIRFLOW (CFM)	INCR. OSA (%)	DESIGN OSA (CFM)
RTU-2	FITNESS-108	745	10	20.0	0.06	8	15	345	0.8	431	15%	500
NOTES:												**TOTAL:**
1	BREATHING ZONE OUTDOOR AIRFLOW: Vbz = Rp*Pz + Ra*Az.											500
2	ZONE OUTDOOR AIRFLOW: Voz= Vbz/Ez.											

OUTSIDE AIR VENTILATION SCHEDULE - SINGLE ZONE SYSTEMS

EQUIPMENT TAG	ROOM	Az NET OCCUPIABLE FLOOR AREA (SF)	DEFAULT OCCUPANT DENSITY (#/1000SF)	Rp PEOPLE OUTDOOR AIR RATE (CFM / PERSON)	Ra AREA OUTDOOR AIR FLOW RATE (CFM/SQ FT)	DEFAULT ZONE POPULATION	Pz ACTUAL ZONE POPULATION	Vbz BREATHING ZONE OUTDOOR AIRFLOW (CFM)	EZ ZONE AIR DISTRIBUTION EFFECTIVENESS	Voz ZONE OUTDOOR AIRFLOW (CFM)	INCR. OSA (%)	DESIGN OSA (CFM)
RTU-3	M LOCKER RM-116	839	EXHAUST ONLY - SEE EXHAUST VENTILATION SCHEDULE									0
	UNIV. CHANGING-117	481	EXHAUST ONLY - SEE EXHAUST VENTILATION SCHEDULE									0
	W LOCKER RM-118	977	EXHAUST ONLY - SEE EXHAUST VENTILATION SCHEDULE									0
NOTES:												**TOTAL:**
1	BREATHING ZONE OUTDOOR AIRFLOW: Vbz = Rp*Pz + Ra*Az.											0
2	ZONE OUTDOOR AIRFLOW: Voz= Vbz/Ez.											

OUTSIDE AIR VENTILATION SCHEDULE - SINGLE ZONE SYSTEMS

EQUIPMENT TAG	ROOM	Az NET OCCUPIABLE FLOOR AREA (SF)	DEFAULT OCCUPANT DENSITY (#/1000SF)	Rp PEOPLE OUTDOOR AIR RATE (CFM / PERSON)	Ra AREA OUTDOOR AIR FLOW RATE (CFM/SQ FT)	DEFAULT ZONE POPULATION	Pz ACTUAL ZONE POPULATION	Vbz BREATHING ZONE OUTDOOR AIRFLOW (CFM)	EZ ZONE AIR DISTRIBUTION EFFECTIVENESS	Voz ZONE OUTDOOR AIRFLOW (CFM)	INCR. OSA (%)	DESIGN OSA (CFM)
RTU-4	INDOOR FOREST-101	1084	8	30.00	0.06	9	10	365	0.8	456	9%	500
	LOBBY-102	1267	8	30.00	0.06	11	12	436	0.8	545	10%	600
NOTES:												**TOTAL:**
1	BREATHING ZONE OUTDOOR AIRFLOW: Vbz = Rp*Pz + Ra*Az.											1,100
2	ZONE OUTDOOR AIRFLOW: Voz= Vbz/Ez.											

OUTSIDE AIR VENTILATION SCHEDULE - SINGLE ZONE SYSTEMS

EQUIPMENT TAG	ROOM	Az NET OCCUPIABLE FLOOR AREA (SF)	DEFAULT OCCUPANT DENSITY (#/1000SF)	Rp PEOPLE OUTDOOR AIR RATE (CFM / PERSON)	Ra AREA OUTDOOR AIR FLOW RATE (CFM/SQ FT)	DEFAULT ZONE POPULATION	Pz ACTUAL ZONE POPULATION	Vbz BREATHING ZONE OUTDOOR AIRFLOW (CFM)	EZ ZONE AIR DISTRIBUTION EFFECTIVENESS	Voz ZONE OUTDOOR AIRFLOW (CFM)	INCR. OSA (%)	DESIGN OSA (CFM)
RTU-5	EAST HALL-107	483	8	30.0	0.06	4	6	209	0.8	261	14%	300
NOTES:												**TOTAL:**
1	BREATHING ZONE OUTDOOR AIRFLOW: Vbz = Rp*Pz + Ra*Az.											300
2	ZONE OUTDOOR AIRFLOW: Voz= Vbz/Ez.											

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DUCT SILENCER SCHEDULE

UNIT SERVED	BASIS OF DESIGN MFR	MODEL	LOCATION	TOTAL CFM	APD (IN H2O)	FACE VELOCITY (FPM)	NOTES
DHU-1	VIBRO ACOUSTIC	RED	SUPPLY	33000	0.04	854	1, 2
DHU-1	VIBRO ACOUSTIC	RED	RETURN	33000	0.04	854	1, 2
RTU-2	VIBRO ACOUSTIC	RED	SUPPLY	1500	0.04	500	1, 2
RTU-2	VIBRO ACOUSTIC	RED	RETURN	1500	0.04	500	1, 2
RTU-3	VIBRO ACOUSTIC	RED	SUPPLY	3000	0.04	500	1, 2
RTU-3	VIBRO ACOUSTIC	RED	RETURN	3000	0.04	500	1, 2
RTU-4	VIBRO ACOUSTIC	RED	SUPPLY	4000	0.04	500	1, 2
RTU-4	VIBRO ACOUSTIC	RED	RETURN	4000	0.04	500	1, 2
RTU-5	VIBRO ACOUSTIC	RED	SUPPLY	1200	0.04	500	1, 2
RTU-5	VIBRO ACOUSTIC	RED	RETURN	1200	0.04	500	1, 2
EF-5	VIBRO ACOUSTIC	RED	OUTLET	3000	0.04	500	1, 2
EF-5	VIBRO ACOUSTIC	RED	INLET	3000	0.04	500	1, 2

NOTES:
1 FILM LINED
2 FACE VELOCITY NOTED IS A MAXIMUM.

DUCT MATERIAL SCHEDULE

SHEET METAL DUCT

UNREINFORCED MINIMUM WALL THICKNESS (GAGE)

DUCT DIMENSION (INCHES)	PRESSURE CLASS (IN W.G.) POSITIVE OR NEGATIVE 1/2	1	2	3	4	6	10
8 AND BELOW	26	26	26	24	24	24	22
9, 10	26	26	26	24	22	20	18
11, 12	26	26	24	22	20	18	16
13, 14	26	24	22	20	18	18	
15, 16	26	22	20	18	18	16	
17, 18	26	22	20	18	16		
19, 20	24	20	18	16			
21, 22	22	18	16	16			
23, 24	22	18	16	16			
25, 26	20	18			REINFORCEMENT IS		
27, 28	18	16			REQUIRED		
29, 30	18	16					
31 TO 36	16						

BASED ON TABLE 1-24 SMACNA
GALVANIZED STEEL DUCTS: HOT-DIPPED GALVANIZED STEEL SHEET, LOCK-FORMING QUALITY, ASTM A 653/A 653M FS TYPE B, WITH G90/ZZ75 COATING.
ALUMINUM DUCTS: ASTM B 209 (ASTM B 209M); ALUMINUM SHEET, ALLOY 3003-H14.
STAINLESS STEEL - FABRICATED IN ACCORDANCE WITH ASTM A167 AND A480.

LOCATION OF APPLICATION:

1. STAINLESS STEEL WELDED:

A. SUPPLY DUCT FROM DHU-1 OUTLET TO PENETRATION INTO POOL AREA.

2. ALUMINUM:

A. RETURN DUCT FROM POOL AREA TO DHU-1 INLET CONNECTION.

B. EXHAUST DUCT FROM POOL AREA TO WALL EXHAUST LOUVER

C. ALL SUPPLY AND RETURN DUCT LOCATED IN LOCKER ROOM ZONE INCLUDING LIFE GUARD AQUATICS DIRECTOR AREAS, AND MULTIPURPOSE AREAS CONNECTED WITH ACCESS TO POOL AREA

3. GALVANIZED STEEL:

A. ALL DUCT AT FITNESS, MEETING ROOM,AND PARKS OFFICES

NONMETAL DUCT

INSULATED FLEXIBLE DUCT: IMPERVIOUS VINYL OR CHLORINATED POLYETHYLENE, PERMANENTLY BONDED VINYL OR ZINC-COATED SPRING STEEL HELIX, FIBERGLASS BLANKET INSULATION, VINYL OR FIBERGLASS ASTM E96SS-REINFORCED METALIZED VAPOR BARRIER. UL 181 LISTED CLASS 1, ASTM C335, ASTM E84.

FIBERGLASS REINFORCED DUCT: RESIN-BONDED FIBERGLASS, CORROSION LINER RESIN SATURATED WITH GLASS CONTENT, EXTERIOR RESIN SMOOTH SURFACE. ASTM-E-84

FABRIC DUCT: PERMEABLE FABRIC, PRE-INSTALLED RIBS, STAINLESS STEEL HARDWARE FOR POOL ENVIRONMENT

LOCATION OF APPLICATION:

1. INSULATED FLEXIBLE DUCT:

A. CONNECTIONS TO AIR DEVICES EXCEPT AT POOL RETURN OR EXPOSED DUCT AREAS. ONLY AT LAST 5FT OF DUCT CONNECTION TO SUPPLY OR RELIEF AIR DEVICES WHERE DUCT IS CONCEALED ABOVE CEILINGS.

2. FIBERGLASS REINFORCED DUCT:

A. DUCTS ASSOCIATED WITH FIBERGLASS REINFORCED PLASTIC EXHAUST FANS

3. FABRIC DUCT:

A. POOL AREA SUPPLY DUCT

DUCT INSULATION SCHEDULE

DESCRIPTION/SERVICE	INSULATION	COMMENTS
SUPPLY DUCT EXTERIOR	WRAPPED	ALUMINUM JACKETED
SUPPLY/RETURN/EXHAUST WITHIN 20FT OF CONNECTED EQUIPMENT	LINED	NONE
SUPPLY DUCT INTERIOR CONCEALED	LINED	NONE
RETURN/EXHAUST DUCT INTERIOR CONCEALED	LINED (EXCEPT AT POOL AND LOCKER ROOM EXHAUST - WRAPPED)	NONE
RETURN/EXHAUST DUCT INTERIOR EXPOSED	NONE	NONE

NOTE: REFER TO SPECIFICATIONS FOR FULL REQUIREMENTS AND ALTERNATE BID OPTIONS.

PIPE MATERIAL SCHEDULE

DESCRIPTION/SERVICE	NOMINAL DIAMETER	MATERIAL	PIPING STANDARD	JOINTS/FITTINGS	COMMENTS
REFRIGERANT LIQUID, REFRIGERANT SUCTION	1" AND ABOVE	COPPER TUBE	ASTM B280, TYPE ACR	JOINTS: BRASED; FITTINGS: ASME B16.22 (WROUGHT COPPER)	INSULATED
	5/8" AND BELOW	COPPER TUBE	ASTM B280, TYPE ACR	JOINTS: FLARED; FITTINGS: ASME B16.26 (CAST COPPER)	INSULATED
HEATING WATER LOOP	6" AND BELOW	POLYPROPYLENE RANDOM (PPR)	Aquatherm Blue Pipe. SDR 11 standard dimension ratio.	Heat fusion connections with corrosion resistant properties.	Valves: Polypropylene. Accessories and insert wells, stainless steel.
CONNECTION AT PLATE HEAT EXCHANGERS WITHIN FIRST 24"	6" AND BELOW	TYPE 316L STAINLESS STEEL PIPE	ASTM A-312/ASME SA-312	WROUGHT ANSI B16.9 OR ANSI B16.28, WELDED	

NOTE: REFER TO SPECIFICATIONS FOR FULL REQUIREMENTS AND ALTERNATE BID OPTIONS.
HVAC PIPE SYSTEMS COVER PIPE SIZE 6" DIAMETER AND BELOW

PIPE INSULATION SCHEDULE

DESCRIPTION/SERVICE	INSULATION	COMMENTS
REFRIGERANT PIPE	FLEXIBLE ELASTOMERIC	ALUMINUM JACKETING EXTEROR PIPE AT ROOF (BOTH SUCTION AND DISCHARGE)
HEATING	GLASS WOOL	PAINTED EXPOSED, ALUMINUM EXTERIOR PIPE AT ROOF

NOTE: REFER TO SPECIFICATIONS FOR FULL REQUIREMENTS AND ALTERNATE BID OPTIONS.

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DEDUCTIVE ALTERNATE #1 - SCHEDULES

DEDUCTIVE ALTERNATE #1 - PACKAGED HEAT PUMP ROOFTOP UNIT SCHEDULE

		BASIS OF DESIGN		SUPPLY FAN							EXHAUST FAN					DX COOLING COIL						HEAT PUMP HEATING					
SYMBOL	AREA SERVED	MFR	MODEL	TOTAL CFM	MIN OSA CFM	DCV OSA CFM	ESP (IN H2O)	MHP	FAN RPM	VFD (Y/N)	TOTAL CFM	ESP (IN H2O)	MHP	FAN RPM	VFD (Y/N)	TOTAL CAP (MBH)	SENS CAP (MBH)	NOM. TONS	EDB (°F)	EWB (°F)	LDB (°F)	LWB (°F)	HTG (MBH)	AUX. HTG (KW)	STAGES	TURNDOWN RATIO	EAT (°F)	LAT (°F)
RTU-1	111 - PUMP ROOM	SEE BASE DESIGN SCHEDULE																									
RTU-2	096 - FITNESS	AAON	RQA-003	1500	1500	-	1.5	2	1760	Y	1200	1	1	1750	Y	36.6	32.6	3	81.6	64.6	56	53.9	26.4	20	2	4:1	54.5	72
RTU-3	LOCKER ROOMS	SEE BASE DESIGN SCHEDULE																									
RTU-4	018 - LOBBY - NORTH	SEE BASE DESIGN SCHEDULE																									
RTU-5	018 - LOBBY - SOUTH	AAON	RQA-003	1200	-	-	1.5	2	1760	Y	1200	1	1	1750	Y	36.6	32.6	3	81.6	64.6	56	53.9	26.4	20	2	4:1	54.5	72

NOTES:
1. MODULATING VARIABLE CAPACITY COMPRESSOR
2. PROVIDE SPRING ISOLATION CURB WITH MINIMUM 0.75-INCH STATIC DEFLECTION
3. PROVIDE SMOKE DETECTOR IN RETURN AIR DUCT. SEE DIVISION 28 FOR ADDITIONAL INFORMATION.
4. PROVIDE ALUMINUM HEAT RECOVERY HEAT EXCHANGER
5. PROVIDE MARINE ENVIRONMENT COATING

DEDUCTIVE ALTERNATE #1 - PACKAGED HEAT PUMP ROOFTOP UNIT SCHEDULE CONT.

AIR SOURCE HEAT PUMP CONDENSER							HEAT RECOVERY								FILTER	ELECTRICAL						
NOM TONS	QTY OF COMPRESSORS	QTY OF FANS	CLG AMBIENT DB (°F)	EER OR SEER	HTG AMBIENT DB (°F)	COP	TYPE	WINTER SA EAT (°F)	SA LAT (°F)	EA EAT (°F)	EA LAT (°F)	SUMMER SA EAT (°F)	SA LAT (°F)	EA EAT (°F)	EA LAT (°F)	EFF MERV	VOLTS	PH	FLA	MCA	MOCP	MAX WT (LBS)	NOTES
SEE BASE DESIGN SCHEDULE																							
3	1	1	92	10	25	4.3	WHEEL	25	50.4	75	41.7	92	83	75	86.1	13	460	3	31	39	40	1000	ALL
SEE BASE DESIGN SCHEDULE																							
SEE BASE DESIGN SCHEDULE																							
3	1	1	92	10	25	4.3	WHEEL	25	50.4	75	41.7	92	83	75	86.1	13	460	3	31	39	40	1000	ALL

DEDUCTIVE ALTERNATE #1 - HP CONDENSING UNIT SCHEDULE

		BASIS OF DESIGN		ASSOC FAN	AIR SOURCE HEAT PUMP CONDENSER					ELECTRICAL				MAX WT (LBS)	NOTES
						COOLING		HEATING							
SYMBOL	AREA SERVED	MFR	MODEL		NOM TONS	CAP (MBH)	AMBIENT DB (°F)	EER	CAP (MBH)	HSPF	VOLTS	PH	MCA	MOCP		
HP-1	MULTI. ROOM 1-111	NOT USED													
HP-2	MULTI. ROOM 2-113	NOT USED													
HP-3	AQ DIR-114	SEE BASE DESIGN SCHEDULE													
HP-4	LIFEGUARDS-122	SEE BASE DESIGN SCHEDULE													
HP-5	PARKS DIR-105	SEE BASE DESIGN SCHEDULE													
HP-6	PARKS BUS.-106	SEE BASE DESIGN SCHEDULE													
HP-7	PARKS ADMIN.-104	SEE BASE DESIGN SCHEDULE													
HP-8	IDF-123	SEE BASE DESIGN SCHEDULE													
HP-9	MTG ROOM-103	SEE BASE DESIGN SCHEDULE													
HP-10	ELEC-128	SEE BASE DESIGN SCHEDULE													

NOTES:
1. PROVIDE SPRING ISOLATION SUPPORTS WITH MINIMUM 0.75-INCH STATIC DEFLECTION

DEDUCTIVE ALTERNATE #1 - OUTSIDE AIR VENTILATION SCHEDULE - SINGLE ZONE SYSTEMS

EQUIPMENT TAG	ROOM	Az NET OCCUPIABLE FLOOR AREA (SF)	DEFAULT OCCUPANT DENSITY (#/1000SF)	Rp PEOPLE OUTDOOR AIR RATE (CFM / PERSON)	Ra AREA OUTDOOR AIR FLOW RATE (CFM/SQ FT)	DEFAULT ZONE POPULATION	Pz ACTUAL ZONE POPULATION	Vbz BREATHING ZONE OUTDOOR AIRFLOW (CFM)	EZ ZONE AIR DISTRIBUTION EFFECTIVENESS	Voz ZONE OUTDOOR AIRFLOW (CFM)	INCR. OSA (%)	DESIGN OSA (CFM)
ERV-1	MULTI. ROOM 1 - 111	NOT USED										
	MULTI. ROOM 2 - 113	NOT USED										
RTU-2	FITNESS - 096	SEE BASE DESIGN SCHEDULE										
RTU-5	LOBBY - SOUTH - 018	SEE BASE DESIGN SCHEDULE										

NOTES:
1. BREATHING ZONE OUTDOOR AIRFLOW: Vbz = Rp*Pz + Ra*Az.
2. ZONE OUTDOOR AIRFLOW: Voz= Vbz/Ez.

TOTAL: 0

DEDUCTIVE ALTERNATE #1 - FAN SCHEDULE

		BASIS OF DESIGN				AIR FLOW (CFM)	TSP (IN H2O)	FAN RPM	SOUND (SONES)	ELECTRICAL				VFD (Y/N)	STARTER (Y/N)	EMERG. POWER (Y/N)	MAX WT (LBS)	NOTES
SYMBOL	AREA SERVED	MFR	MODEL	TYPE	DRIVE					VOLTS	PH	MHP	FLA					
EF-1	PROG STOR-132,AQ STOR-127	SEE BASE DESIGN SCHEDULE																
EF-2	PUMP ROOM-126	SEE BASE DESIGN SCHEDULE																
EF-3	CHEM 2-131	SEE BASE DESIGN SCHEDULE																
EF-4	CHEM 1-130	SEE BASE DESIGN SCHEDULE																
EF-5	POOL	SEE BASE DESIGN SCHEDULE																
EF-6	WC-109	GREENHECK	G-070-VG	DOWNBLAST	DIRECT	150	0.35	1455	3.7	120	1	1/15	1.3	N	N	N	75	1,5,7
HVLS-1	NATATORIUM DECK - 124	SEE BASE DESIGN SCHEDULE																
HVLS-2	NATATORIUM DECK - 124	SEE BASE DESIGN SCHEDULE																

NOTES:
1. PROVIDE WITH VARIABLE SPEED CONTROLLER
2. SIDE MOUNTED MOTOR
3. FIBER REINFORCED PLASTIC CONSTRUCTION
4. HI-PRO POLYESTER CHEMICAL RESISTIVE COATED
5. PROVIDE WITH FACTOY-MOUNTED ROOF CURB
6. CHEMICAL RESISTIVE COATED
7. FACTORY PROVIDED ELECTRONICALLY COMMUTATED MOTOR (ECM)

DEDUCTIVE ALTERNATE #1 - FAN COIL SCHEDULE (DX)

		BASIS OF DESIGN			SUPPLY FAN		DX COOLING COIL			HEAT PUMP HTG (MBH)	ELECTRICAL				MAX WT (LBS)	NOTES
SYMBOL	AREA SERVED	MFR	MODEL	ASSOC CU	TOTAL CFM	MIN OSA CFM	NOM TONS	TOTAL CAP (MBH)	SENS CAP (MBH)		VOLTS	PH	MCA	MOCP		
FCU-1	MULTI. ROOM 1-111	NOT USED														
FCU-2	MULTI. ROOM 2-113	NOT USED														
FCU-3	AQ DIR-114	SEE BASE DESIGN SCHEDULE														
FCU-4	LIFEGUARDS-122	SEE BASE DESIGN SCHEDULE														
FCU-5	PARKS DIR-105	SEE BASE DESIGN SCHEDULE														
FCU-6	PARKS BUS.-106	SEE BASE DESIGN SCHEDULE														
FCU-7	PARKS ADMIN.-104	SEE BASE DESIGN SCHEDULE														
FCU-8	IDF-123	SEE BASE DESIGN SCHEDULE														
FCU-9	MTG ROOM-103	SEE BASE DESIGN SCHEDULE														
FCU-10	ELEC-128	SEE BASE DESIGN SCHEDULE														

NOTES:
1. PROVIDE WITH CONDENSATE PUMP. SHIPS LOOSE AND INSTALLED ON SITE. SEE PLUMBING PLANS FOR CONDENSATE DRAIN ROUTING
2. OUTSIDE AIR SUPPLIED DIRECTLY TO THE SPACE VIA A SEPARATE SYSTEM
3. PROVIDE WITH INTEGRAL CONDENSATE PUMP. SEE PLUMIBNG PLANS FOR CONDENSATE DRAIN ROUTING.

DEDUCTIVE ALTERNATE #1 - ENERGY RECOVERY UNIT SCHEDULE

		BASIS OF DESIGN		SUPPLY FAN					EXHAUST FAN					HEAT RECOVERY								ELECTRICAL					APPROX. DIMS (LxWxH)	MAX WT (LBS)	NOTES
															WINTER				SUMMER											
SYMBOL	AREA SERVED	MFR	MODEL	TOTAL CFM	MIN OSA CFM	ESP (IN H2O)	MHP	FAN RPM	VFD (Y/N)	TOTAL CFM	ESP (IN H2O)	MHP	FAN RPM	VFD (Y/N)	TYPE	SA EAT (°F)	SA LAT (°F)	EA EAT (°F)	EA LAT (°F)	SA EAT (°F)	SA LAT (°F)	EA EAT (°F)	EA LAT (°F)	VOLTS	PH	FLA	MCA	MOCP			
ERV-1	MULTI. ROOMS-111,113	NOT USED																											
ERV-2	AQ DIR-114, LIFEGUARDS-122	SEE BASE DESIGN SCHEDULE																											
ERV-3	PARKS ADMIN OFFICES-104/105/106, MTG ROOM-103	SEE BASE DESIGN SCHEDULE																											

NOTES:
1. DIRECT DRIVE, PSC, VARIABLE SPEED SUPPLY AND EXHAUST FANS
2. MERV 13 FILTERS
3. MOUNT ON SPRING ISOLATORS WITH MINIMUM 2" STATIC DEFLECTION.
4. SUSPEND BY CHAINS WITH VIBRATION-ISOLATING SPRINTS.

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DEDUCTIVE ALTERNATE #2 - SCHEDULES

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DEDUCTIVE ALTERNATE #2 - ENERGY RECOVERY UNIT SCHEDULE

		BASIS OF DESIGN		SUPPLY FAN		HEAT RECOVERY	ELECTRICAL				
SYMBOL	AREA SERVED	MFR	MODEL	TOTAL CFM	ESP (IN H2O)	TYPE	VOLTS	PH	MOCP	MAX WT (LBS)	NOTES
ERV-1	MULTI. ROOMS-111,113	SEE BASE DESIGN SCHEDULE									
ERV-2	AQ DIR-114, LIFEGUARDS-122	SEE BASE DESIGN SCHEDULE									
ERV-3	PARKS ADMIN OFFICES-104/105/106, MTG ROOM-103	NOT USED									
ERV-4-ALT	PARKS ADMIN - 104	PANASONIC	FV-06VE1	50	0.5	ALUM CORE	120	1	-	25	ALL
ERV-5-ALT	MTG. ROOM - 103	PANASONIC	FV-06VE1	50	0.5	ALUM CORE	120	1	-	25	ALL

NOTES:
1 MERV 13 FILTERS.
2 PROVIDE W/ MANUFACTURER'S OPTIONAL (CONCENTRIC) WALL CAP ACCESSORY, MODEL FV-WC10VE1.

DEDUCTIVE ALTERNATE #2 - ELECTRIC HEATER SCHEDULE

		BASIS OF DESIGN			ELECTRICAL						
SYMBOL	AREA SERVED	MFR	MODEL	TYPE	VOLTS	PH	HEAT KW	STAGES	MAX WT (LBS)	NOTES
WH-1	RISER-129	SEE BASE DESIGN SCHEDULE								
WH-2	VESTIBULE	QMARK	CWH1000	RECESSED WALL	120	1	1.5	1	50	1, 2
WH-3	PROG STORAGE-132	SEE BASE DESIGN SCHEDULE								
WH-4	PUMP ROOM-126	SEE BASE DESIGN SCHEDULE								
WH-5	FIELD HOUSE - WATER FILTER	SEE BASE DESIGN SCHEDULE								

NOTES:
1 PROVIDE WITH INTEGRAL THERMOSTAT
2 MOUNT SO BOTTOM EDGE IS 12 INCHES AFF UNLESS OTHERWISE NOTED ON PLANS.

DEDUCTIVE ALTERNATE #2 - FAN COIL SCHEDULE (DX)

		BASIS OF DESIGN			SUPPLY FAN		DX COOLING COIL			HEAT	ELECTRICAL					
SYMBOL	AREA SERVED	MFR	MODEL	ASSOC CU	TOTAL CFM	MIN OSA CFM	NOM TONS	TOTAL CAP (MBH)	SENS CAP (MBH)	PUMP HTG (MBH)	VOLTS	PH	MCA	MOCP	MAX WT (LBS)	NOTES
FCU-1	MULTI. ROOM 1-111	SEE BASE DESIGN SCHEDULE														
FCU-2	MULTI. ROOM 2-113	SEE BASE DESIGN SCHEDULE														
FCU-3	AQ DIR-114	SEE BASE DESIGN SCHEDULE														
FCU-4	LIFEGUARDS-122	SEE BASE DESIGN SCHEDULE														
FCU-5	PARKS DIR-105	NOT USED														
FCU-6	PARKS BUS.-106	NOT USED														
FCU-7	PARKS ADMIN.-104	NOT USED														
FCU-8	IDF-123	SEE BASE DESIGN SCHEDULE														
FCU-9	MTG ROOM-103	NOT USED														
FCU-10	ELEC-128	SEE BASE DESIGN SCHEDULE														
FCU-11-ALT	PARKS ADMIN.-104	LG	KNMDB071A	HP-11-ALT	265	-	0.6	7.0	-	8.1	208	1	0.25	-	50	2, 3, 4
FCU-12-ALT	MTG ROOM-103	LG	KNMDB071A		265	-	0.6	7.0	-	8.1	208	1	0.25	-	50	2, 3, 4

NOTES:
1 PROVIDE WITH CONDENSATE PUMP. SHIPS LOOSE AND INSTALLED ON SITE. SEE PLUMBING PLANS FOR CONDENSATE DRAIN ROUTING
2 OUTSIDE AIR SUPPLIED DIRECTLY TO THE SPACE VIA A SEPARATE SYSTEM
3 PROVIDE WITH INTEGRAL CONDENSATE PUMP. SEE PLUMIBNG PLANS FOR CONDENSATE DRAIN ROUTING.
4 OUTSIDE CONDENSING UNIT POWERS INDOOR UNITS.

DEDUCTIVE ALTERNATE #2 - HP CONDENSING UNIT SCHEDULE

		BASIS OF DESIGN			AIR SOURCE HEAT PUMP CONDENSER						ELECTRICAL					
						COOLING			HEATING							
SYMBOL	AREA SERVED	MFR	MODEL	ASSOC FAN	NOM TONS	CAP (MBH)	AMBIENT DB (°F)	EER	CAP (MBH)	COP	VOLTS	PH	MCA	MOCP	MAX WT (LBS)	NOTES
HP-1	MULTI. ROOM 1-111	SEE BASE DESIGN SCHEDULE														
HP-2	MULTI. ROOM 2-113	SEE BASE DESIGN SCHEDULE														
HP-3	AQ DIR-114	SEE BASE DESIGN SCHEDULE														
HP-4	LIFEGUARDS-122	SEE BASE DESIGN SCHEDULE														
HP-5	PARKS DIR-105	NOT USED														
HP-6	PARKS BUS.-106	NOT USED														
HP-7	PARKS ADMIN.-104	NOT USED														
HP-8	IDF-123	SEE BASE DESIGN SCHEDULE														
HP-9	MTG ROOM-103	NOT USED														
HP-10	ELEC-128	SEE BASE DESIGN SCHEDULE														
HP-11-ALT	PARKS ADMIN.-104 / MTG ROOM-103	LG	KUMXB181A	FCU-11-ALT / FCU-12-ALT	1.5	18.0	95	-	22.0	3.6	208	1	16.1	20	150	1

NOTES:
1 PROVIDE SPRING ISOLATION SUPPORTS WITH MINIMUM 0.75-INCH STATIC DEFLECTION

DEDUCTIVE ALTERNATE #2 - OUTSIDE AIR VENTILATION SCHEDULE - SINGLE ZONE SYSTEMS

EQUIPMENT TAG	ROOM	Az NET OCCUPIABLE FLOOR AREA (SF)	DEFAULT OCCUPANT DENSITY (#/1000SF)	Rp PEOPLE OUTDOOR AIR RATE (CFM / PERSON)	Ra AREA OUTDOOR AIR FLOW RATE (CFM/SQ FT)	DEFAULT ZONE POPULATION	Pz ACTUAL ZONE POPULATION	Vbz BREATHING ZONE OUTDOOR AIRFLOW (CFM)	EZ ZONE AIR DISTRIBUTION EFFECTIVENESS	Voz ZONE OUTDOOR AIRFLOW (CFM)	INCR. OSA (%)	DESIGN OSA (CFM)
ERV-4-ALT	MTG. ROOM-103	156	5	5.00	0.06	1	3	24	0.8	30	50%	50
ERV-5-ALT	PARKS ADMIN-104	128	5	5.00	0.06	1	3	23	0.8	28	60%	50
NOTES:												TOTAL:
1	BREATHING ZONE OUTDOOR AIRFLOW: Vbz = Rp*Pz + Ra*Az.											100
2	ZONE OUTDOOR AIRFLOW: Voz= Vbz/Ez.											

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CONTRACT DOCUMENTS

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REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:
SCHEDULES - MECHANICAL - DED ALT #2

SCALE: 12" = 1'-0"
DRAWN: QB
CHECKED: TL
PROJECT NO: 2022021.000

SHEET:
M0.7

SHEET KEYNOTES

1. BALANCE DAMPERS TO SPECIFIED AIRFLOWS,
2. PROVIDE INSULATED BACKING FOR T-STAT JUNCTION BOX.
3. MOUNT FAN HIGH IN SPACE, AND ROUTE FAN INLET DOWN TO 2" AFF.
4. PROVIDE VENT OPENING 6" BELOW TOP OF WALL AND SCREENING ON BACK OF EXHAUST DUCT.
5. COORDINATE EXACT LOACTION W/ ARCHITECTURAL RCP.

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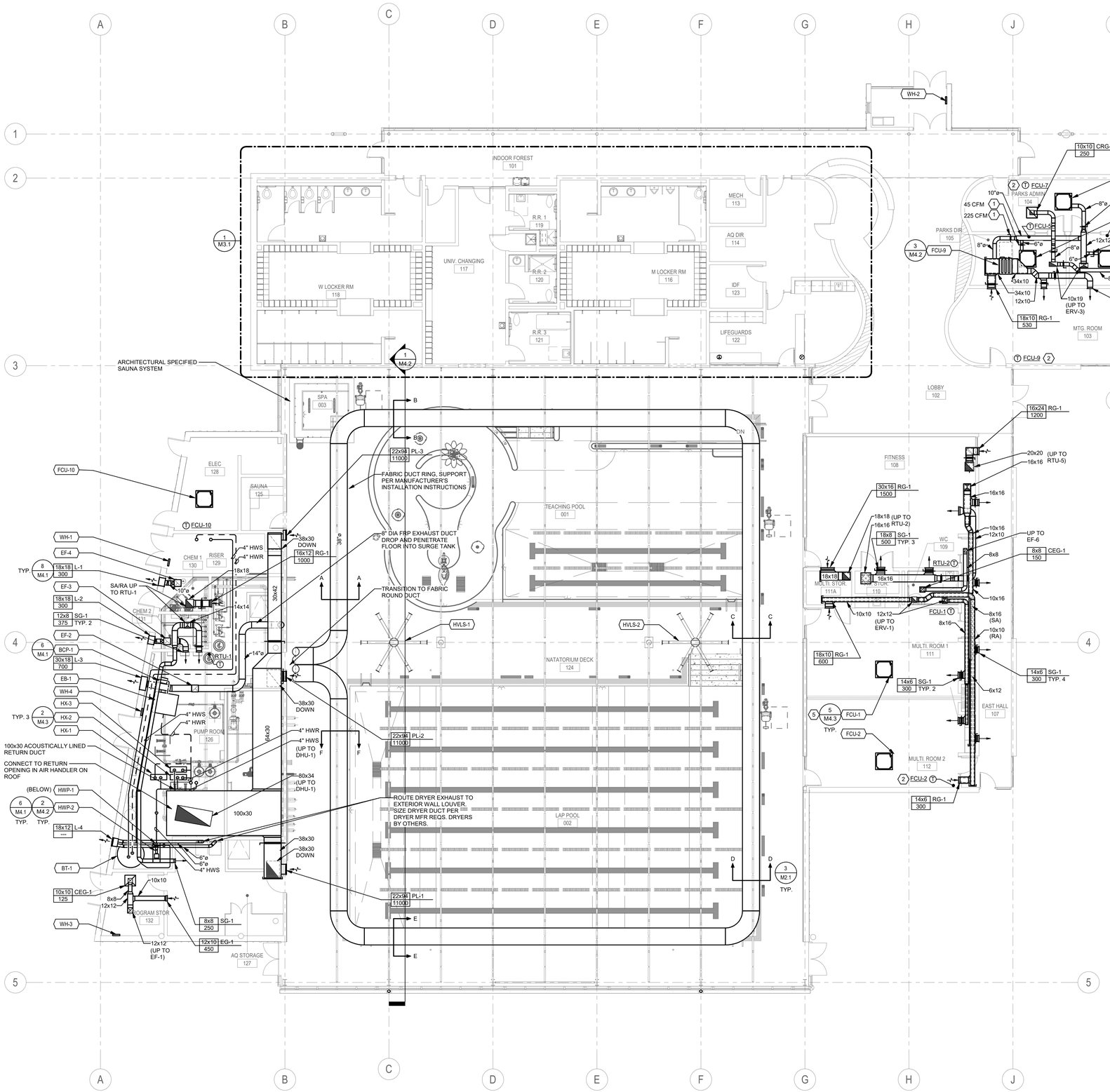
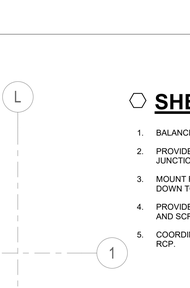


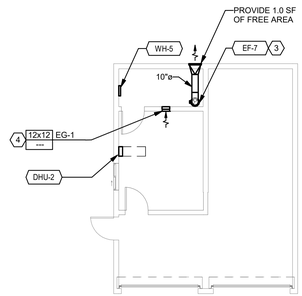
1 1st FLOOR PLAN - MECHANICAL

0' 4' 8' 16'
1/8" = 1'-0"



3 FABRIC DUCT ORIENTATIONS

NO SCALE



2 EXISTING MAINTENANCE BLDG - MECHANICAL

0' 4' 8' 16'
1/8" = 1'-0"

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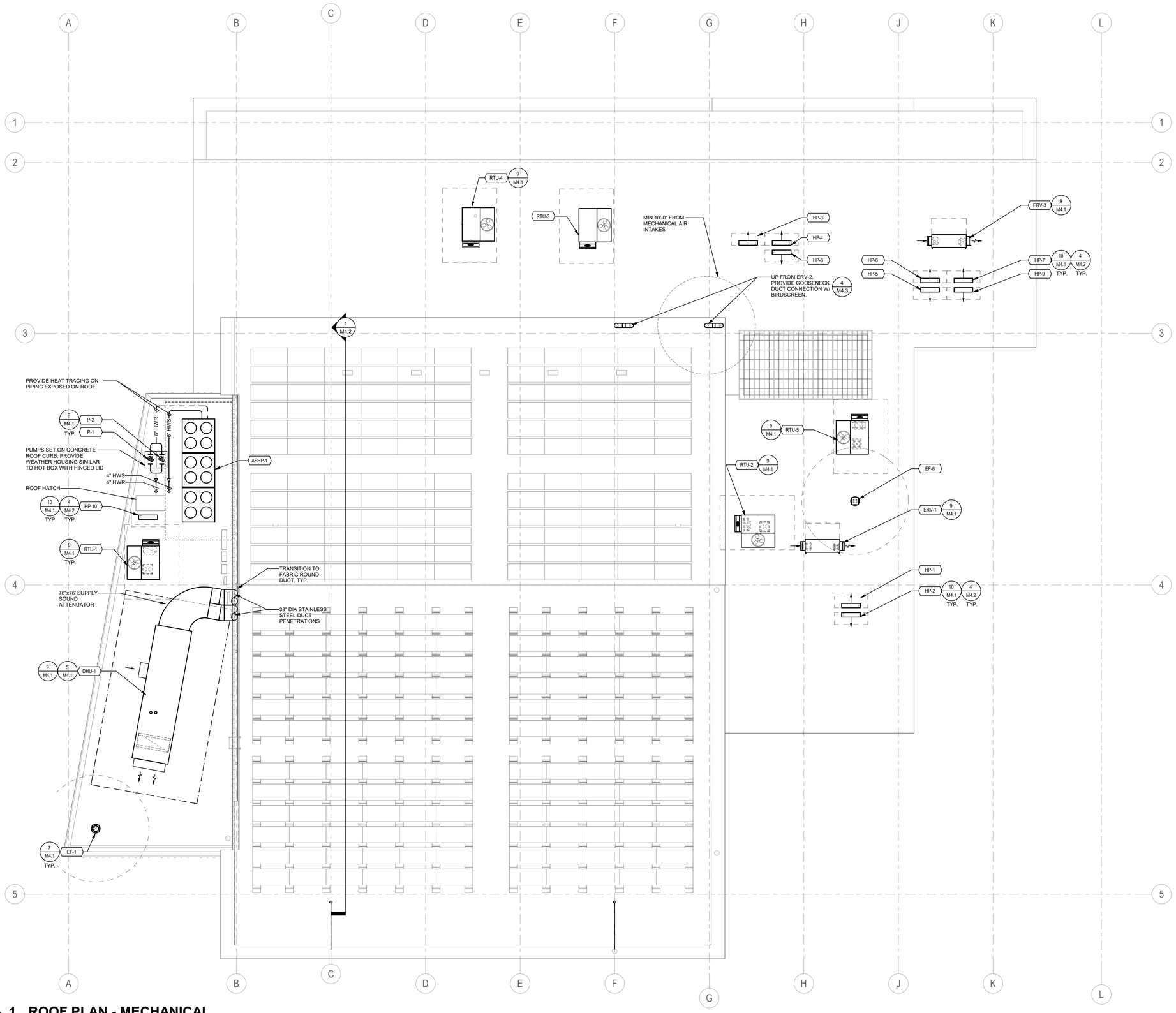
CONTENTS:
1st FLOOR PLAN - MECHANICAL

SCALE: As indicated
DRAWN: QB
CHECKED: TL
PROJECT NO: 2022021.000

SHEET:
M2.1



1 ROOF PLAN - MECHANICAL

0' 4' 8' 16'

1/8" = 1'-0"

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CONTENTS:

ROOF PLAN - MECHANICAL

SCALE: 1/8" = 1'-0"
DRAWN: QB
CHECKED: TL
PROJECT NO: 2022021.000

SHEET:

M2.3

SHEET KEYNOTES

1. BALANCE DAMPERS TO SPECIFIED AIRFLOWS
2. COORDINATE EXACT LOACTION W/ ARCHITECTURAL RCP.

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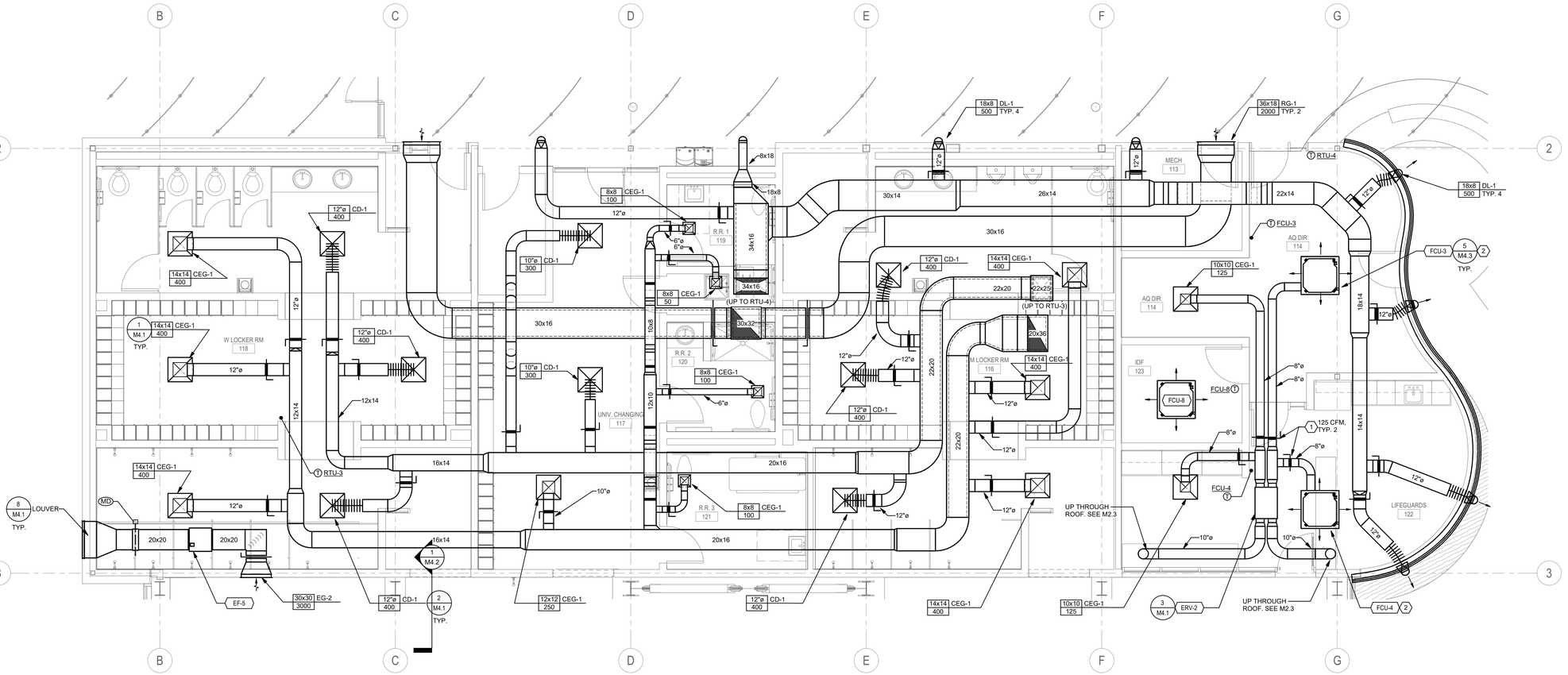

1 ENLARGED LOCKER ROOM AREA - MECHANICAL

0' 2' 4' 8'

1/4" = 1'-0"

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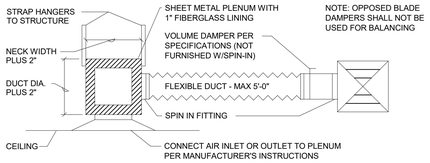
CONTENTS:

ENLARGED PLANS - MECHANICAL

SCALE: **1/4" = 1'-0"**
DRAWN: **QB**
CHECKED: **TL**
PROJECT NO: **2022021.000**

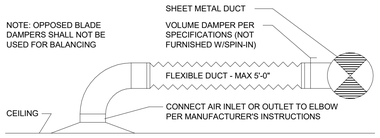
SHEET:

M3.1



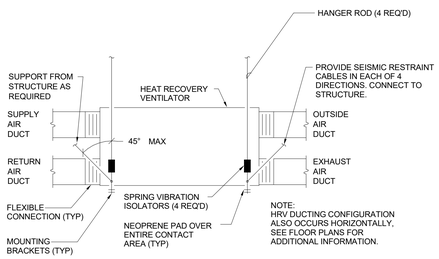
1 AIR INLET OR OUTLET SQUARE NECK

NO SCALE



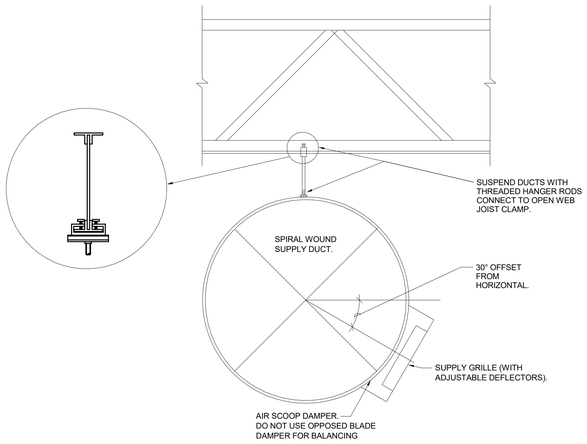
2 AIR INLET OR OUTLET ROUND NECK

NO SCALE



3 INDOOR ENERGY RECOVERY VENTILATOR

NO SCALE



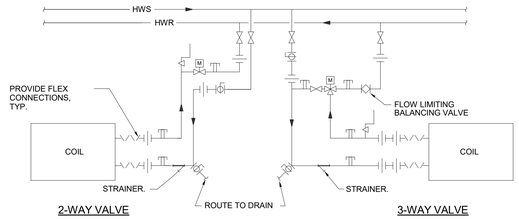
4 EXPOSED DUCT-MOUNTED SUPPLY GRILLE

NO SCALE

GENERAL DETAIL NOTES

A. TWO-WAY VALVES TYPICAL. USE THREE-WAY VALVES WHERE NOTED AND AT END OF PIPING RUNS.

B. 2-WAY CONTROL VALVES TO BE PRESSURE INDEPENDENT TYPE.

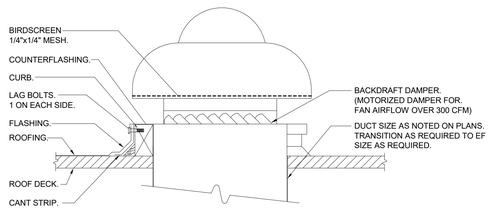


5 HEATING COIL PIPING

NO SCALE

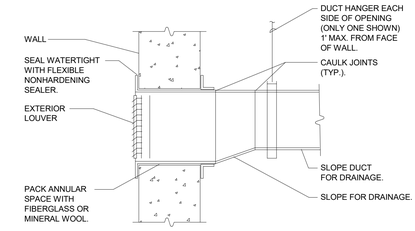
6 VERTICAL IN-LINE PUMP

NO SCALE



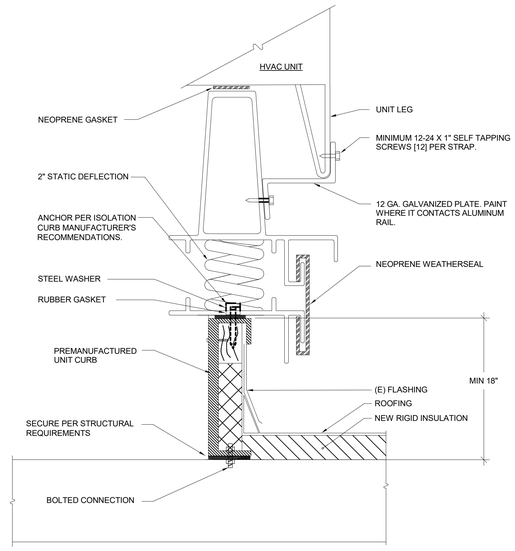
7 ROOF EXHAUST FAN

NO SCALE



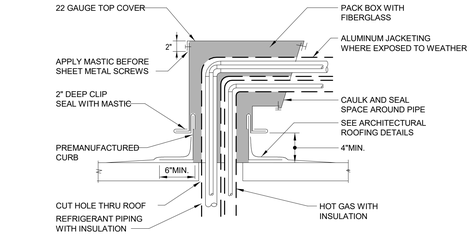
8 LOUVERED WALL PENETRATION

NO SCALE



9 HVAC UNIT CURB W/SPRING

NO SCALE



10 ROOF JACK FOR PIPES THRU ROOF

NO SCALE

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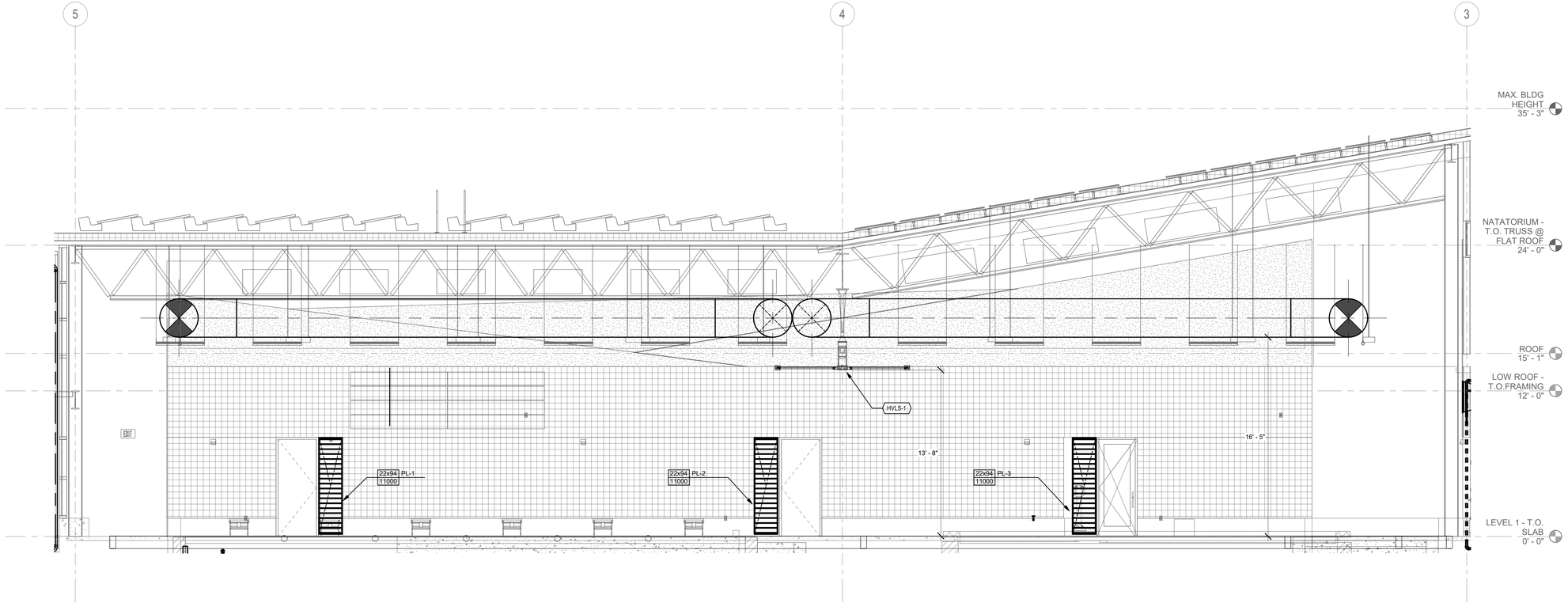
SHEET:

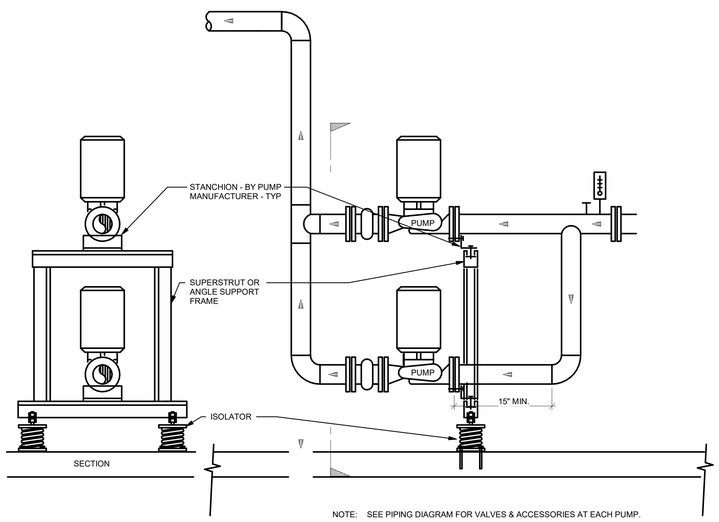
M4.1



1 DUCTWORK ROUTING IN POOL

0' 2' 4' 8'

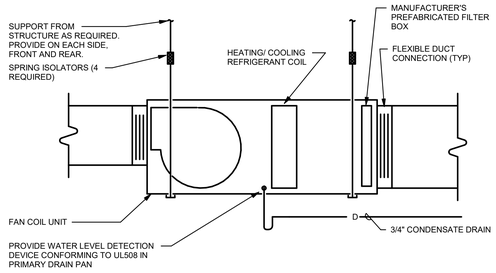
1/4" = 1'-0"



NOTE: SEE PIPING DIAGRAM FOR VALVES & ACCESSORIES AT EACH PUMP.

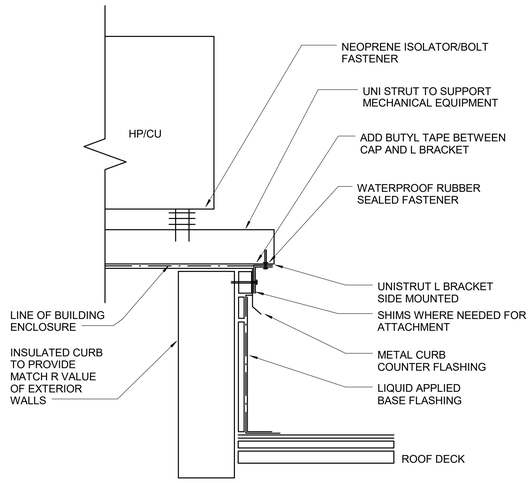
2 INLINE PUMP SUPPORT

NO SCALE



3 FAN COIL

NO SCALE



4 ROOFTOP CONDENSING UNIT CURB

NO SCALE

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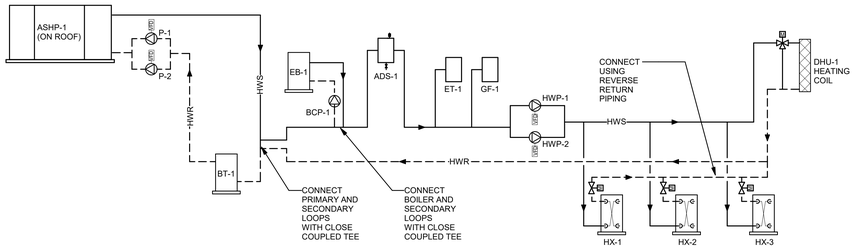
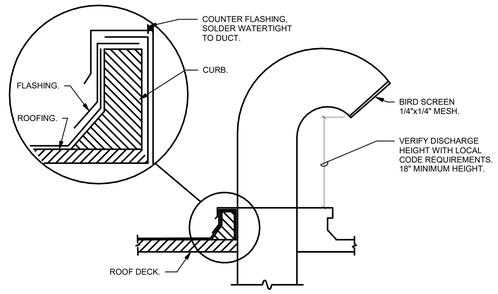
SHEET:

M4.2



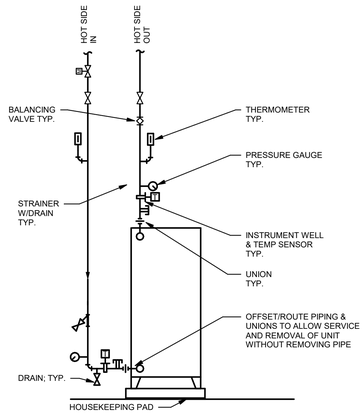
1 HOT WATER PIPING SCHEMATIC

NO SCALE



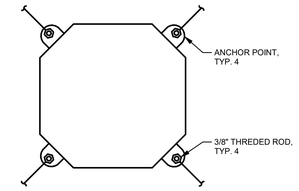
4 GOOSENECK - RECTANGULAR DUCT

NO SCALE

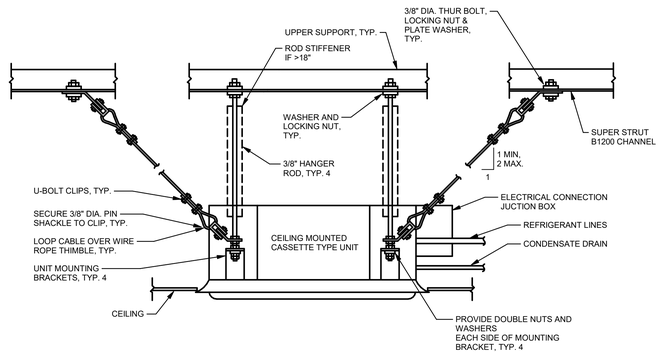


2 HEAT EXCHANGER DETAIL

NO SCALE



TOP VIEW OF FAN COIL UNIT

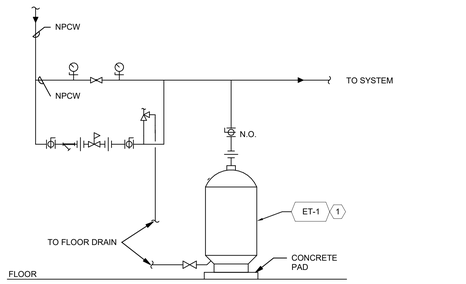


5 CASSETTE TYPE FCU MOUNTING DETAIL

NO SCALE

DETAIL KEYNOTES

1 PRECHARGE TANK TO FILL PRESSURE (PRV SETTING).



3 EXPANSION TANK DETAIL

NO SCALE

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DETAILS - MECHANICAL

SCALE: **NO SCALE**
DRAWN: **QB**
CHECKED: **TL**
PROJECT NO: **2022021.000**

SHEET:

M4.3

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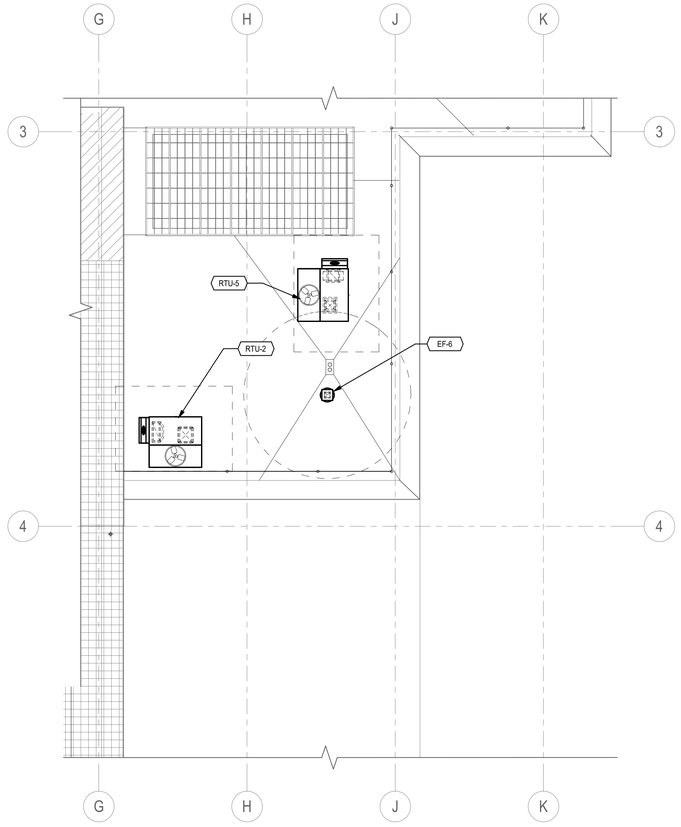
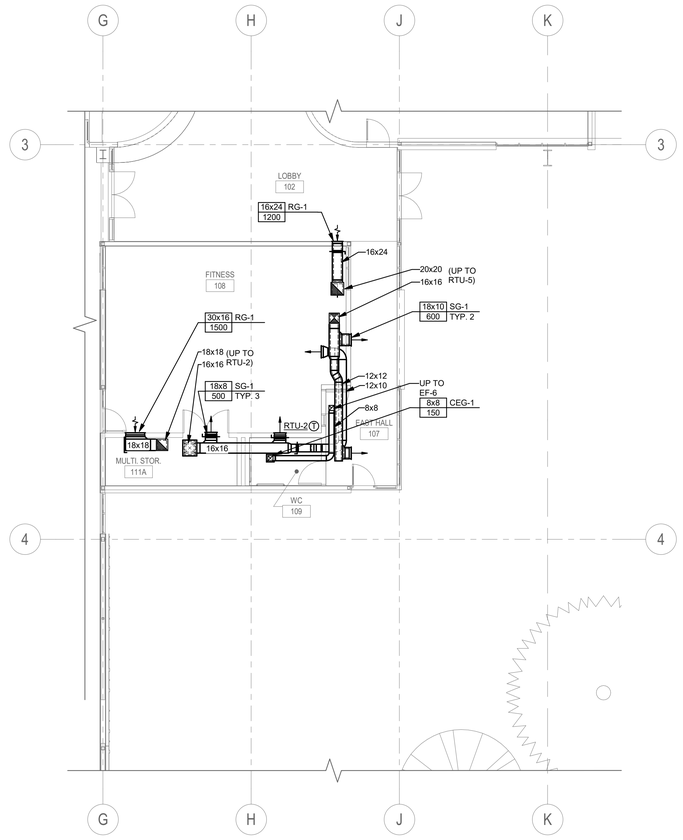


2 ROOF PLAN - MECHANICAL - ALTERNATE 1

0' 4' 8' 16'
1/8" = 1'-0"



1 1st FLOOR PLAN - MECHANICAL - ALTERNATE 1

0' 4' 8' 16'
1/8" = 1'-0"

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1st FLOOR PLAN - MECHANICAL - DEDUCTIVE ALT 1

SCALE: 1/8" = 1'-0"
DRAWN: QB
CHECKED: TL
PROJECT NO: 2022021.000

SHEET:
M11.1

SHEET KEYNOTES

1. PROVIDE W/ PANASONIC CONCENTRIC 'WHISPERVENT' WALL CAP FOR SINGLE TERMINATION POINT OF OUTDOOR/EXHAUST AIR.

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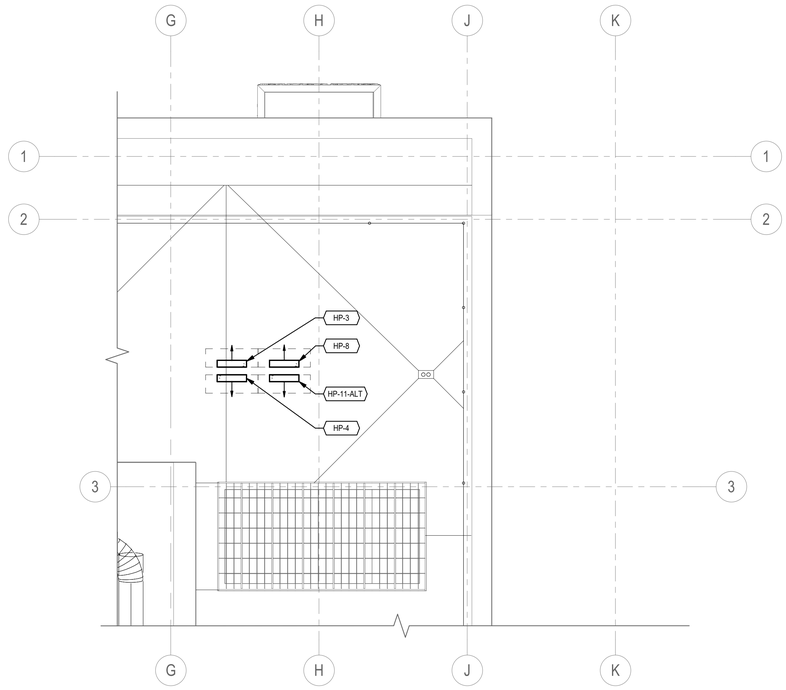
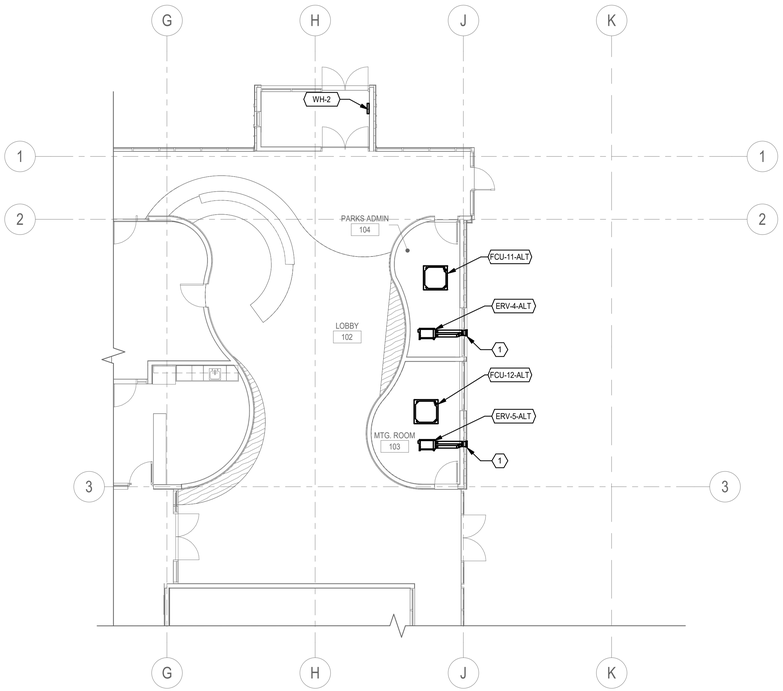
07/18/2025
Brian Boyle



2 ROOF PLAN - MECHANICAL - ALTERNATE 2

0' 4' 8' 16'
1/8" = 1'-0"



1 1st FLOOR PLAN - MECHANICAL - ALTERNATE 2

0' 4' 8' 16'
1/8" = 1'-0"

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CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:

1st FLOOR PLAN - MECHANICAL - DEDUCTIVE ALT 2

SCALE: 1/8" = 1'-0"
DRAWN: QB
CHECKED: TL
PROJECT NO: 2022021.000

SHEET:
M11.2

PIPE MATERIAL SPECIFICATIONS

SANITARY: WASTE & VENT (ABOVE GRADE)	PVC PIPE ASTM D2665 IPS SCHEDULE 40 SOLID WALL DWV PVC DWV ASTM D2665 FITTINGS WITH ASTM D2564 SOLVENT CEMENT
WASTE & VENT (BELOW GRADE)	PVC PIPE ASTM D2665 IPS SCHEDULE 40 SOLID WALL DWV PVC DWV ASTM D2665 FITTINGS WITH ASTM D2564 SOLVENT CEMENT
DOMESTIC & INDUSTRIAL WATER (ABOVE GRADE)	CROSS LINKED PEX POLYETHYLENE TUBING COMPLIES WITH REQUIREMENTS OF ASTM F876 AND F877, TYPE A
DOMESTIC WATER (BELOW GRADE)	CROSS LINKED PEX POLYETHYLENE TUBING COMPLIES WITH REQUIREMENTS OF ASTM F876 AND F877, TYPE A
PRIMER PIPING	CROSS LINKED PEX POLYETHYLENE TUBING COMPLIES WITH REQUIREMENTS OF ASTM F876 AND F877, TYPE A
CONDENSATE DRAIN PIPING	PVC PIPE ASTM D2665 IPS SCHEDULE 40 SOLID WALL DWV PVC DWV ASTM D2665 FITTINGS WITH ASTM D2564 SOLVENT CEMENT CROSS LINKED PEX POLYETHYLENE TUBING COMPLIES WITH REQUIREMENTS OF ASTM F876 AND F877, TYPE A

NOTES:

1. SEE SPECS FOR ADDITIONAL INFORMATION.

PLUMBING SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
&	AND
@	AT
AD	AUXILIARY DRAIN
BFP	BACKFLOW PREVENTER
BFF	BELOW FINISHED FLOOR
BTUH	BRITISH THERMAL UNITS PER HOUR
BLDG	BUILDING
CV	CHECK VALVE
CO	CLEANOUT
CW	COLD WATER
CD	CONDENSATE DRAIN
CONT.	CONTINUATION
CFH	CUBIC FEET PER HOUR
CFS	CUBIC FEET PER SECOND
DW	DISHWASHER, DOMESTIC WATER
DET	DOMESTIC EXPANSION TANK
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DN	DOWN
DS	DOWNSPOUT
DSN	DOWNSPOUT NOZZLE
D	DRAIN
DFU	DRAINAGE FIXTURE UNIT
DWV	DRAINAGE, WASTE AND VENT
DF	DRINKING FOUNTAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
ELECT	ELECTRICAL
ED	EMERGENCY DRAIN
ESH	EMERGENCY SHOWER
FT	FEET
FFE	FINISHED FLOOR ELEVATION
F	FIRE, FAHRENHEIT
FL	FLOOR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FV	FLUSH VALVE
'	FOOT, FEET
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HZ	HERTZ
HB	HOSE BIBB
HW	HOT WATER
HWFU	HOT WATER FIXTURE UNIT
HWR	HOT WATER RETURN
IN, "	INCHES
IW	INDIRECT WASTE
INV	INVERT ELEVATION
L	LAVATORY
MIN	MINIMUM
MX	MIXING VALVE
MS	MOP SINK
N	NORTH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
#	NUMBER
NO.	NUMBER
OD	OVERFLOW DRAIN, OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PLBG	PLUMBING
P	PLUMBING, PUMP
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PD	PRESSURE DROP, PLUMBING DEMOLITION, PUMPED DISCHARGE
PRV	PRESSURE REDUCING VALVE
QTY	QUANTITY
RWL	RAINWATER LEADER
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
RD	ROOF DRAIN
SAN	SANITARY
SB	SERVICE BOX
SHT	SHEET
SA	SHOCK ARRESTOR
SOV	SHUT OFF VALVE
S, SK	SINK
SF	SQUARE FEET
SD	STORM DRAIN
SP	SUMP PUMP, STATIC PRESSURE
TEMP	TEMPERATURE
TP	TRAP PRIMER, TOTAL PRESSURE
TYP	TYPICAL
U, UR	URINAL
V	VACUUM, VENT, VOLT
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
W	WASTE
WC	WATER COLUMN, WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WH	WATER HEATER, WALL HYDRANT
WSFU	WATER SUPPLY FIXTURE UNIT
W/	WITH

General

- KEYED NOTE
- PIPE OR CONDUIT BELOW GRADE
- CONTINUATION
- EXTENT OF DEMOLITION
- POINT OF CONNECTION
- FIXTURE TAG (LEVEL BELOW FIXTURE)
- XXX-X — HVAC EQUIPMENT IDENTIFICATION (REF. ONLY)
- XX-X / LOCATION — PLUMBING EQUIPMENT IDENTIFICATION

Piping Fittings

- AP — ACCESS PANEL
- AQUASTAT
- BLIND FLANGE
- CAP
- COTG — CLEANOUT TO GRADE
- CONCENTRIC REDUCER
- DSN — DOWNSPOUT NOZZLE
- ECCENTRIC REDUCER
- FCO — FLOOR CLEANOUT
- FD — FLOOR DRAIN
- FS — FLOOR SINK
- FLOW DIRECTION
- HOSE BIBB / WALL HYDRANT
- OD — OVERFLOW ROOF DRAIN
- PIPE DROP
- PIPE RISE
- PUMP
- RD — ROOF DRAIN
- SHOCK ABSORBER / WATER HAMMER ARRESTOR
- STRAINER
- T&P RELIEF VALVE WITH PIPE TO DRAIN
- TEE DOWN ON PIPE
- TEE UP ON PIPE
- VTR — VENT THROUGH ROOF
- WCO — WALL CLEANOUT

Piping Systems

- COLD WATER PIPING
- CONDENSATE / INDIRECT DRAIN PIPING
- HOT WATER PIPING
- HOT WATER RETURN PIPING
- 2#G — NATURAL GAS PIPING, 2 LB
- G — NATURAL GAS PIPING, 7" WC PRESSURE
- OD — OVERFLOW DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
- SANITARY VENT PIPING
- SANITARY WASTE OR SOIL PIPING ABOVE GRADE OR FINISHED FLOOR
- SANITARY WASTE OR SOIL PIPING BELOW GRADE OR FINISHED FLOOR
- SD — STORM DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR
- SD — STORM DRAIN PIPING BELOW GRADE OR FINISHED FLOOR
- TP — TRAP PRIMER PIPING

Valves

- BFP — BACKFLOW PREVENTER
- CHECK VALVE
- SHUTOFF VALVE, GENERAL

GENERAL NOTES

A CONDITIONS SHOW ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES TO BE CROSSED OR CONNECTED. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT AND ENGINEER OF CONDITION IN CONFLICT WITH THE DETAILS/PLANS.

B COORDINATE INSTALLATION OF PIPING BELOW AND ABOVE GRADE WITH STRUCTURAL COMPONENTS AND OTHER SYSTEMS INSTALLATION.

C COORDINATE FIXTURES, EQUIPMENT, PIPE ROUGH-IN/CONNECTION LOCATIONS AND DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS.

D ALL PIPING SYSTEMS CROSSING SEISMIC SEPARATIONS SHALL UTILIZE PRE-MANUFACTURED EXPANSION JOINT SYSTEM, SIZED FOR 4 INCH X, Y AND Z MOVEMENT. UNISOURCE 'V' TYPE, HYSPAN OR APPROVED.

E PIPING ROUTED THROUGH ROOF TO BE INSTALLED PER ARCHITECTURAL REQUIREMENTS (SEE ARHICTECTURAL DETAILS).

F LOCATE ALL VTR A MINIMUM OF 10'-0" FROM OUTSIDE AIR OPENINGS OF ROOFTOP HVAC EQUIPMENT.

G INSTALL CONDENSATE DRAIN TRAPS ON ROOFTOP UNITS PER DETAIL

H EXTERIOR HOSE BIBBS TO BE MOUNTED AT 24 INCHES ABOVE FINISH GRADE (UNLESS SPECIFICALLY NOTED OTHERWISE).

I LOCATE VALVES FOR SERVICE ACCESSIBILITY. VALVES INSTALLED ABOVE CEILING SHALL BE WITHIN 18" OF CEILING.

J INSTALL OVERHEAD PIPING AS CLOSE TO STRUCTURE AS POSSIBLE IN AREAS WITH EXPOSED ROOF STRUCTURE.

K REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS FOR PIPING AND EQUIPMENT.

L DOWNSPOUT RISERS AND STORM DRAIN RISERS TO BE PROVIDED WITH CLEANOUT AT BASE OF VERTICAL STACK. SEE DETAILS.

M PROVIDE CLEANOUTS FOR SANITARY WASTE AND STORM DRAINAGE SYSTEMS WHERE SHOWN AND AS OTHERWISE REQUIRED BY CODE.

N VERIFY LOCATIONS OF CONNECTIONS TO PIPING INSTALLED BY SITE CONTRACTOR.

O PIPING INSTALLED IN EXTERIOR WALLS TO BE INSTALLED ON WARM SIDE OF INSULATION.

P FURNISH AND INSTALL VALVES, TRAPS, STRAINERS, BACK FLOW PREVENTERS, ETC. NOT FURNISHED BY EQUIPMENT SUPPLIER, BUT REQUIRED FOR PROPER EQUIPMENT OPERATION.

Q SHUT-OFF VALVES TO BE INSTALLED IN ALL WATER PIPING AT LOCATIONS SHOWN. PROVIDE ACCESS PANELS IF CEILING AND STRUCTURAL CONDITIONS DO NOT ALLOW NORMAL ACCESS. COORDINATE EXACT TYPE AND LOCATION WITH OWNER AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN.

R SEE PLUMBING FIXTURE SCHEDULE FOR PIPE CONNECTION SIZES.

S COORDINATE INSTALLATION OF DUCTWORK, PIPING, FIXTURES, EQUIPMENT, ETC. WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND FIRE PROTECTION SYSTEMS PRIOR TO INSTALLATION.

T REFER TO ARCHITECTURAL DRAWINGS FOR ADA ACCESSIBILITY REQUIREMENTS.

U PROVIDE CEILING ACCESS PANELS FOR VALVES LOCATED ABOVE INACCESSIBLE CEILING SYSTEMS. VALVES INSTALLED ABOVE CEILING SHALL BE WITHIN 18" OF CEILING. MAINTAIN FIRE RATINGS WHERE REQUIRED.

V SEE ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE LOCATIONS.

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SYMBOL LIST AND GENERAL NOTES - PLUMBING

SCALE:
DRAWN: QB
CHECKED: CS
PROJECT NO: 2022021.000

SHEET:

P0.1

PLUMBING FIXTURE SCHEDULE

			BASIS OF DESIGN			CONNECTION					
SYMBOL	FIXTURE TYPE	DESCRIPTION	MFR	MODEL	ACCESSORIES	W	V	CW	HW	ELECTRICAL	NOTES
DSC-1	DOWNSPOUT COVER	304 STAINLESS STEEL HINGED/PERFORATED, VANDAL RESISTANT DOWNSPOUT COVER	ZURN	ZR199		SEE PLANS	--	--	--	--	
ESH-1	EMERGENCY FIXTURE	FLOOR MOUNTED, HOT DIPPED GALVANIZED STEEL CONSTRUCTION, ABS PLASTIC EYE WASH BOWL AND SHOWER HEAD, IN-LINE 50 X 50 MESH EYEWASH WATER STRAINER, STAY OPEN BALL VALVE, ADA COMPLIANT	HAWS	8309WC	INSTALL WITH EMV-1	1-1/2"	1-1/2"	1"	1"	--	SET MIXING VALVE TEMPERATURE TO DELIVER 80 DEG. F. TEMPERED WATER. 1-1/4" TEMPERED WATER CONNECTION FROM MIXING VALVE TO FIXTURE.
EWC-1	ELECTRIC WATER COOLER	ELECTRIC WATER COOLER - DUAL STATION, SURFACE MOUNTED, NON-FILTERED, LOW BOWL ON RIGHT, BOTTLE FILLER,STAINLESS STEEL FINISH, VANDAL RESISTANT, MECHANICALLY ACTIVATED	ELKAY	EZSTLG8WSSK	IN-WALL CARRIER SYSTEM - ELKAY MODEL MLP200	1-1/2"	1-1/2"	1/2"	--	115V, 60HZ, 6 AMPS	SEE ARCHITECTURAL PLANS FOR MOUNTING HEIGHT. COORDINATE ELECTRICAL REQUIREMENTS WITH DIVISION 26.
FD-1	FLOOR DRAIN	CAST IRON BODY, FLASHING COLLAR, 6-INCH ADJUSTABLE NICKEL BRONZE STRAINER HEAD, TRAP PRIMER, VANDAL PROOF SCREWS	JR SMITH	2005Y-A-06-P050-U-NB		SEE PLANS	SEE PLANS	PRIMER CONN.	--	--	
FD-2	FLOOR DRAIN	CAST IRON BODY, FLASHING COLLAR, 8-1/2-INCH ROUND ADJUSTABLE TOP, BAR GRATE, SEDIMENT BUCKET, TRAP PRIMER CONNECTION	JR SMITH	2350Y-P050		SEE PLANS	SEE PLANS	PRIMER CONN.	--	--	
FS-1	FLOOR SINK	12-1/2" TOP, CAST IRON FLANGED RECEPTOR, SEEPAGE HOLES, ACID RESISTANT COATED INTERIOR, NICKEL BRONZE RIM, ALUMINUM DOME BOTTOM STRAINER, 10-INCH DEEP, NO-HUB OUTLET	JR SMITH	3160Y	PROVIDE GRATE AS INDICATED ON PLANS	SEE PLANS	SEE PLANS	PRIMER CONN.	--	--	
HB-1	WALL HYDRANT	ENCASED (RECTANGULAR BOX), NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING, CHROME PLATED BOX/DOOR ASSEMBLY, DOUBLE CHECK BACKFLOW PREVENTER, LOOSE TEE KEY OPERATION	WOODFORD	B67		--	--	3/4"	--	--	
HB-2	WALL HYDRANT	ENCASED, (RETANGULAR BOX),COLD, MILD CLIMATE, ANTI-SIPHON, AUTOMATIC DRAINING, CHROME PLATED ASSEMBLY, DOUBLE CHECK BACKFLOW PREVENTER, LOOSE KEY OPERATION	WOODFORD	B76		--	--	3/4"	--	--	
HB-3	HOSE BIBB	STAINLESS STEEL ENCLOSURE	EASIWASH	9024		--	--	--	--	--	ENCLOSURE FOR EASIWASH HOSE CONNECTION
RH-1	ROOF HYDRANT	NON-FREEZE SANTIARY ROOF HYDRANT, SELF DRAINING (NO DRAIN REQUIRED). ASSE 1057 LISTED, ASSE 1052 DOUBLE CHECK BACKFLOW PREVENTER, MOUNTING SYSTEM.	WOODFORD	SRH-MS		--	--	3/4"	--	--	
IM-1	OUTLET BOX	ICE MAKER OUTLET BOX (FIRE RATED) - NSF-372 COMPLIANT, ABS BOX/FRAME, NO-LEAD BRASS VALVE, ASSE 1010 WATER HAMMER ARRESTOR, 1/4" OUTLET CONNECTION	SIOUX CHIEF	696RG1010		--	--	1/2"	--	--	SUPPLY CONNECTION TYPE PER PIPING MATERIAL. INSTALL WITH BOTTOM OF BOX AT 18" A.F.F. UNLESS NOTED OTHERWISE.
L-1	LAVATORY	UNDERMOUNT, SELF-RIMMING, ROUND, 19-1/8" DIA, VITREOUS CHINA, SINGLE-HOLE PUNCH, FRONT OVERFLOW	TOTO	LT233	DECK MOUNTED, TOUCH-FREE, SENSOR OPERATED FAUCET, BATTERY POWERED, SINGLE HOLE, SINGLE-SUPPLY, 0.50 GPM; CHICAGO FAUCETS MODEL 116.606.AB.1; INSTALL LMV-1 - ASSE 1070 COMPLIANT MIXING VALVE. (SET DISCHARGE TEMPERATURE AT 110 DEG. F.)	1-1/2"	1-1/2"	1/2"	1/2"	--	SEE SPECIFICATION SECTION 224000 FOR TRAP COVERS, SUPPLY STOPS AND ADDITIONAL ACCESSORIES
L-2	LAVATORY	WALL HUNG, ADA COMPLIANT, VITREOUS CHINA, SINGLE-HOLE PUNCH, FRONT OVERFLOW	AMERICAN STANDARD	0356.421	DECK MOUNTED, TOUCH-FREE, SENSOR OPERATED FAUCET, BATTERY POWERED, SINGLE HOLE, SINGLE-SUPPLY, 0.50 GPM; CHICAGO FAUCETS MODEL 116.606.AB.1; INSTALL LMV-1 - ASSE 1070 COMPLIANT MIXING VALVE. (SET DISCHARGE TEMPERATURE AT 110 DEG. F.)	1-1/2"	1-1/2"	1/2"	1/2"	--	MOUNT LAVATORY AT ADA COMPLIANT HEIGHT, SEE ARCHITECTURAL PLANS FOR HEIGHT AND LOCATION. SEE SPECIFICATION SECTION 224000 FOR FLOOR MOUNTED CARRIER, TRAP COVERS, SUPPLY STOPS AND ADDITIONAL ACCESSORIES
MS-1	MOP SINK	FLOOR MOUNTED, ONE PIECE MOLDED STRUCTURAL FIBERGLASS, 24-INCHES X 24-INCHES X 10-INCHES	MUSTEE	63M	WALL HUNG, MOP SINK FAUCET, 8-INCH CENTERS, LEVER HANDLES, PAIL HOOK, CHROME PLATED, ATMOSPHERIC VACUUM BREAKER, 3/4" THREADED HOSE OUTLET AND WALL FLANGE; CHICAGO FAUCETS MODEL 540-LD897SWXFABCP; 3/8" OFFSET INLET SUPPLY ARM WITH INTEGRAL CHECK; CHICAGO FAUCETS MODEL GCJKABCP; VINYL BUMPER GUARDS; MUSTEE MODEL 63.401	3"	2"	1/2"	1/2"	--	
OD-1	ROOF DRAIN	EPOXY COATED CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, UNDER DECK CLAMP, EXTENSION, SUMP RECEIVER, 2-INCH WATER DAM, 2-1/2" LOW PROFILE GALVANIZED CAST IRON DOME	ZURN	Z121-E		SEE PLANS	--	--	--	--	
RD-1	ROOF DRAIN	EPOXY COATED CAST IRON BODY WITH FLANGE, FLASHING RING WITH GRAVEL STOP, UNDER DECK CLAMP, EXTENSION, SUMP RECEIVER, 2-1/2" LOW PROFILE GALVANIZED CAST IRON DOME	ZURN	Z121		SEE PLANS	--	--	--	--	
RH-1	ROOF HYDRANT	NON-FREEZE SANITARY ROOF HYDRANT, SELF DRAINING (NO DRAIN REQUIRED), ASSE 1057 LISTED, ASSE 1052 DOUBLE CHECK BACKFLOW PREVENTER, MOUNTING SYSTEM	WOODFORD	SRH-MS		--	--	3/4"	---	--	
S-1	SINK	DROP-IN, SINGLE BOWL, 18 GAUGE STAINLESS STEEL, 22-INCHES X 22-INCHES X 6-1/2-INCHES DEEP, 27-INCH MINIMUM CABINET SIZE, 3-HOLE PUNCH, BARRIER FREE	ELKAY	LRAD222265	DECK MOUNTED FAUCET, 8-INCH RIGID/SWING GOOSENECK, 4" WRISTBLADE HANDLES, 8-INCH FIXED CENTERS, 1.5 GPM AERATED FLOW RATE; CHICAGO FAUCETS MODEL 201-AGN8AE35-317AB	2"	1-1/2"	1/2"	1/2"	--	SEE SPECIFICATION SECTION 224000 FOR SUPPLY STOPS AND ADDITIONAL ACCESSORIES.

PLUMBING FIXTURE SCHEDULE

			BASIS OF DESIGN			CONNECTION					
SYMBOL	FIXTURE TYPE	DESCRIPTION	MFR	MODEL	ACCESSORIES	W	V	CW	HW	ELECTRICAL	NOTES
SH-1	SHOWER	TILE SHOWER			SINGLE HANDLE PRESSURE BALANCING SHOWER VALVE, SERVICE/CHECK STOPS, 1.5 GPM FIXED SHOWER HEAD FLOW RATE; ZURN MODEL Z7301-SS-MT-S9	2"	1-1/2"	1/2"	1/2"	--	PROVIDE WITH OPTIONS AS LISTED IN DESCRIPTION
SH-2	SHOWER	TILE SHOWER			SINGLE HANDLE PRESSURE BALANCING SHOWER VALVE, SERVICE/CHECK STOPS, 1.5 GPM HANDHELD SHOWER HEAD FLOW RATE, 60-INCH FLEXIBLE METAL HOSE, 24-INCH MOUNTING BAR, VACUUM BREAKER; ZURN MODEL Z7300-SS-HW-MT-H9	2"	1-1/2"	1/2"	1/2"	--	HANDING BASED ON SEAT LOCATION, COORDINATE WITH ARCHITECT PRIOR TO PROCUREMENT. PROVIDE WITH OPTIONS AS LISTED IN DESCRIPTION.
SH-3	SHOWER	BARRIER FREE, ONE PIECE, 38-INCHES X 38-1/2-INCHES X 82-INCHES INSIDE DIMENSIONS, SLIP RESISTANT TEXTURED BOTTOM, HORIZONTAL L-GRAB BAR, VERTICAL GRAB BAR, FOLD UP SEAT, STEEL CURTAIN ROD, 5/8-INCH THRESHOLD	EVERFAB	S3838A1-R	SINGLE HANDLE PRESSURE BALANCING SHOWER VALVE, SERVICE/CHECK STOPS, 1.5 GPM HANDHELD SHOWER HEAD FLOW RATE, 60-INCH FLEXIBLE METAL HOSE, 24-INCH MOUNTING BAR, VACUUM BREAKER; ZURN MODEL Z7300-SS-HW-MT-H9	2"	1-1/2"	1/2"	1/2"	--	HANDING BASED ON SEAT LOCATION, COORDINATE WITH ARCHITECT PRIOR TO PROCUREMENT. PROVIDE WITH OPTIONS AS LISTED IN DESCRIPTION.
SH-4	SHOWER	BARRIER FREE, ONE PIECE, 63-INCHES X 36-INCHES X 78-1/2-INCHES INSIDE DIMENSIONS, SLIP RESISTANT TEXTURED BOTTOM, HORIZONTAL BACK AND SIDE WALL GRAB BARS, VERTICAL SIDE WALL GRAB BAR, FOLD UP SEAT, STEEL CURTAIN ROD, 3/4-INCH THRESHOLD	EVERFAB	S6336A13-R	SINGLE HANDLE PRESSURE BALANCING SHOWER VALVE, SERVICE/CHECK STOPS, 1.5 GPM HANDHELD SHOWER HEAD FLOW RATE, 60-INCH FLEXIBLE METAL HOSE, 24-INCH MOUNTING BAR, VACUUM BREAKER; ZURN MODEL Z7300-SS-HW-MT-H9	2"	1-1/2"	1/2"	1/2"	--	HANDING BASED ON SEAT LOCATION, COORDINATE WITH ARCHITECT PRIOR TO PROCUREMENT. PROVIDE WITH OPTIONS AS LISTED IN DESCRIPTION.
TD-1	TRENCH DRAIN	STAINLESS STEEL LINEAR SHOWER DRAIN, VERTICALLY ADJUSTABLE ANCHORING SUPPORT LEGS, NO-HUB 2-INCH OUTLET, LIGHT DUTY	ZURN	ZS880	PROVIIDE LENGTHS AS NEEDED TO FIT AREAS SHOWN ON PLANS.	SEE PLANS	SEE PLANS	PRIMER CONN.	---	--	SEE PLUMBING PLANS FOR OUTLET LOCATION AND INVERT ELEVATION. SEE ARCHITECTURAL PLANS FOR EXACT LENGTH AND LOCATION.
TD-2	TRENCH DRAIN	POLYESTER FIBER REINFORCED POLYMER CONCRETE, 96-INCH LONG, HEAVY DUTY LOAD BEARING FRAME, T304 STAINLESS STEEL, FRAME SHALL CONFORM TO ASTM A-240, LOAD CLASS D	NDS	DURA-TRENCH STP3V02	GRATE: DURA TRENCH 03248SSA STAINLESS STEEL, ADA, HEEL PROOF, 3-INCH WIDE, GRATE LOCKS	4"	2"	---	---	--	SEE PLUMBING PLANS FOR OUTLET LOCATION AND INVERT ELEVATION. SEE ARCHITECTURAL PLANS FOR EXACT LENGTH AND LOCATION. PROVIDE SHOP DRAWINGS FROM TRENCH DRAIN MANUFACTURER FOR REVIEW.
UR-1	URINAL	WALL HUNG, 0.125 GPF, VITREOUS CHINA, TOP SPUD, FLUSHOMETER, STANDARD MOUNTING HEIGHT	TOTO	UT105UG	FLUSH VALVE - SENSORED OPERATION, 0.125 GPF, DUAL-FILTERED BYPASS, POLISHED CHROME FINISH, TOP SPUD; TOTO TEU1UA12#CP	2"	1-1/2"	3/4"	--	--	MOUNT URINAL AT STANDARD HEIGHT, SEE ARCHITECTURAL PLANS FOR HEIGHT AND LOCATION. SEE SPECIFICATION SECTION 224000 FOR FLOOR MOUNTED CARRIER AND ADDITIONAL ACCESSORIES.
UR-2	URINAL	WALL HUNG, 0.125 GPF, VITREOUS CHINA, TOP SPUD, FLUSHOMETER, BARRIER FREE MOUNTING HEIGHT	TOTO	UT105UG	FLUSH VALVE - SENSORED OPERATION, 0.125 GPF, DUAL-FILTERED BYPASS, POLISHED CHROME FINISH, TOP SPUD; TOTO TEU1UA12#CP	2"	1-1/2"	3/4"	--	--	MOUNT URINAL AT ADA COMPLIANT HEIGHT, SEE ARCHITECTURAL PLANS FOR HEIGHT AND LOCATION. SEE SPECIFICATION SECTION 224000 FOR FLOOR MOUNTED CARRIER AND ADDITIONAL ACCESSORIES.
WC-1	WATER CLOSET	WALL HUNG, 1.28 GPF MANUAL FLUSHOMETER, VITREOUS CHINA, TOP SPUD, STANDARD MOUNTING HEIGHT	SLOAN	ST-2459	FLUSH VALVE - MANUAL OPERATION, 1.28 GPF, POLISHED CHROME FINISH, TOP SPUD; SLOAN MODEL ROYAL 111-1.28; SEAT - ELONGATED, PLASTIC, SELF-SUSTAINING CHECK HINGES WITH NON-CORRODING STAINLESS STEEL POSTS; BEMIS MODEL 1955SSCT	4"	2"	1-1/4"	--	--	MOUNT WATER CLOSET AT STANDARD HEIGHT, SEE ARCHITECTURAL PLANS FOR HEIGHT AND LOCATION. SEE SPECIFICATION SECTION 224000 FOR FLOOR MOUNTED CARRIER AND ADDITIONAL ACCESSORIES.
WC-2	WATER CLOSET	WALL HUNG, 1.28 GPF MANUAL FLUSHOMETER, VITREOUS CHINA, TOP SPUD, ADA MOUNTING HEIGHT	SLOAN	ST-2459	FLUSH VALVE - MANUAL OPERATION, 1.28 GPF, POLISHED CHROME FINISH, TOP SPUD; SLOAN MODEL ROYAL 111-1.28; SEAT - ELONGATED, PLASTIC, SELF-SUSTAINING CHECK HINGES WITH NON-CORRODING STAINLESS STEEL POSTS; BEMIS MODEL 1955SSCT	4"	2"	1-1/4"	--	--	MOUNT WATER CLOSET AT ADA HEIGHT, SEE ARCHITECTURAL PLANS FOR HEIGHT AND LOCATION. SEE SPECIFICATION SECTION 224000 FOR FLOOR MOUNTED CARRIER AND ADDITIONAL ACCESSORIES.
WM-1	OUTLET BOX	WASHING MACHINE OUTLET BOX (FIRE RATED) - NSF-372 COMPLIANT, ABS BOX/FRAME, NO-LEAD BRASS VALVES, ASSE 1010 WATER HAMMER ARRESTORS, 3/4" OUTLET CONNECTIONS, 2" DRAIN CONNECTION, INDIVIDUAL DRAIN AND SUPPLY BOXES	SIOUX CHIEF	696RG2313		2"	1-1/2"	1/2"	1/2"	--	SUPPLY CONNECTION TYPE PER PIPING MATERIAL. INSTALL WITH BOTTOM OF BOX AT 34" A.F.F. UNLESS NOTED OTHERWISE.

NOTES:
1 SEE ARCHITECTURAL DRAWINGS FOR ALL FIXTURE MOUNTING HEIGHTS AND LOCATIONS.
* UNLESS NOTED OTHERWISE ON DRAWINGS

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SCALE: 12" = 1'-0"
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PROJECT NO: 2022021.000

SHEET:
P0.2

WATER & WASTE SERVICE CALCULATIONS

(BASED ON APPENDIX 'A' AND TABLE 7-3 OF THE 2021 UNIFORM PLUMBING CODE)

FIXTURE QUANTITY		DOMESTIC WATER				SANITARY SEWER	
		APPENDIX 'A'	TOTAL FIXTURE UNITS			TABLE 7-3	
PUBLIC	DESCRIPTION	PUBLIC	COLD WATER	(.75) COLD WATER	(.75) HOT WATER	PUBLIC	TOTAL FIXTURE UNITS
1	CLOTHES WASHER	4.00	4.00	3.00	3.00	3.00	3.00
2	DRINKING FOUNTAIN	0.50	1.00	1.00	---	0.50	1.00
1	HOSE BIBB	2.50	2.50	2.50	---	---	---
5	HOSE BIBB, EACH ADDITIONAL	1.00	5.00	5.00	---	---	---
8	LAVATORY	1.00	8.00	6.00	6.00	1.50	12.00
1	SERVICE SINK OR MOP BASIN	3.00	3.00	2.25	2.25	3.00	3.00
20	SHOWER	2.00	40.00	30.00	30.00	2.00	40.00
2	SINK	1.50	3.00	2.25	2.25	2.00	4.00
2	URINAL	4.00	8.00	8.00	---	2.00	4.00
9	WATER CLOSET, 1.28 GPF, FLUSH VALVE	5.00	45.00	45.00	---	4.00	36.00
	TOTAL		119.50	105.00	43.50		103.00
	FLOW IN GPM		75	70	26		
	SERVICE SIZE TO BUILDING		3"				4"
a.	MINIMUM DAILY SERVICE PRESSURE		50	psi			
b.	WATER METER PRESSURE DROP		5	psi			
c.	BACKFLOW PREVENTER		15	psi			
d.	PRESSURE REQUIRED AT FIXTURE		30	psi			
e.	BOOSTED PRESSURE		40				
f.	STATIC HEAD LOSS (0.434 /FT X) 15		15	psi			
	PRESSURE AVAILABLE FOR						
	FRICTION LOSS		25	psi			
	TOTAL EQUIVALENT PIPE LENGTH						
250	LENGTH X 1.25		312.5	ft			
.							
	MAXIMUM FRICTION LOSS						
	PRESS. AVAIL. X 100'/EQUIV. LENGTH		8.000	psi			
	SERVICE SIZE FROM METER TO BUILDING		3"				

DOMESTIC COLD WATER SIZING - COPPER SIZED FOR TYPE 'L' COPPER USING CHART A-4

SIZE	FIXTURE UNITS (FLUSH VALVE)	GPM	VELOCITY: FPS
1/2"	0	0	0
3/4"	0	0	0
1"	0	0	0
1 1/4"	8	25	6.1
1 1/2"	25	38	7.1
2"	124	74	8
2 1/2"	365	120	8
3"	775	180	8

DOMESTIC COLD WATER SIZING - COPPER SIZED FOR TYPE 'L' COPPER USING CHART A-4

SIZE	FIXTURE UNITS (FLUSH TANK)	GPM	VELOCITY: FPS
1/2"	2	2	3.2
3/4"	8	7	4.2
1"	20	14	5.2
1 1/4"	42	25	6.1
1 1/2"	78	38	7.1
2"	245	74	8
2 1/2"	479	120	8
3"	809	180	8

DOMESTIC HOT WATER SIZING - COPPER

SIZE	FIXTURE UNITS	GPM	VELOCITY: FPS
1/2"	2	2	3.2
3/4"	8	7	4.2
1"	18	13	5
1 1/4"	30	20	5
1 1/2"	51	29	5
2"	119	48	5
2 1/2"	245	74	5
3"	455	115	5

PLUMBING DEVICES SCHEDULE

			BASIS OF DESIGN			CONNECTION				
SYMBOL	FIXTURE TYPE	DESCRIPTION	MFR	MODEL	ACCESSORIES	W	V	CW	HW	NOTES
DET-1	DOMESTIC WATER EXPANSION TANK - IAPMO	14.0 GALLON CAPACITY, WELDED STEEL CONSTRUCTION, DIAPHRAGM TYPE, SEPARATE WATER RESERVOIR, PRE-PRESSURIZED, IAPMO CERTIFIED.	AMTROL THERM-X-TROL	ST-30V		---	---	3/4"	---	
DET-2	DOMESTIC WATER EXPANSION TANK - IAPMO	4.4 GALLON CAPACITY, WELDED STEEL CONSTRUCTION, DIAPHRAGM TYPE, SEPARATE WATER RESERVOIR, PRE-PRESSURIZED, IAPMO CERTIFIED.	AMTROL THERM-X-TROL	ST-12		---	---	3/4"	---	
EMV-1	EMERGENCY MIXING VALVE - MULTIPLE EMERGENCY SHOWERS	BRONZE BODY, INTERNAL COLD WATER BYPASS, ADJUSTABLE TEMEPRATURE LIMIT STOP, CHECK STOPS, DIAL THERMOMETER, 40 GPM AT 30 PSI.	LEONARD	TM-5100		---	---	1-1/4"	1-1/4"	
LMV-1	LAVATORY MIXING VALVE	THERMOSTATIC MIXING VALVE, ASSE 1070 COMPLIANT, INTEGRAL CHECK VALVES, LEAD FREE: WATTS LFMMV	WATTS	LFMMV		---	---	1/2"	1/2"	
DWMV-1	MASTER MIXING VALVE	FULL PACKAGE SYSTEM WITH HIGH/LOW FLOW MIXING VALVES, GAUGES, PRV(S), VALVES, UNIONS AND OTHER CONNECTIONS, EXPOSED. 0.5 GPM TO 124 GPM AT 50 PSI MAX FALLOFF. SYSTEM PEAK = 39 GPM AT 5 PSI FALLOFF.	LYNC	V55 DIGITEMP JR.		---	---	1"	1"	1-1/4" OUTLET. COORDINATE WITH DIVISION 26. SEE MISCELLANEOUS EQUIPMENT SCHEDULE FOR ELECTRICAL LOADS.
RPBA-1	REDUCED PRESSURE BACKFLOW ASSEMBLY	STAINLESS STEEL VALVE SEAT AND STAINLES STEEL CHECK COMPONENTS, DUCTILE IRON BODY, LEAD FREE, FLOOD SENSOR	WATTS	LF880V-NRS	PROVIDE WITH FLOOR SENSOR CONNECTION KIT TO FOR BMS COMMUNICATION	---	---	3"	---	
RPBA-2	REDUCED PRESSURE BACKFLOW ASSEMBLY	STAINLESS STEEL VALVE SEAT AND STAINLES STEEL CHECK COMPONENTS, DUCTILE IRON BODY, LEAD FREE, FLOOD SENSOR	WATTS	LF880V-NRS	PROVIDE WITH FLOOR SENSOR CONNECTION KIT TO FOR BMS COMMUNICATION	---	---	3"	---	

NOTES:

DOMESTIC WATER HEAT PUMP SYSTEM SCHEDULE

			BASIS OF DESIGN		TANK CAPACITY	RECOVERY RATE @ 100F RISE	ELECTRICAL						MAX WT	
SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	MFR	MODEL	(GALLONS)	(GPH)	VOLTS	PH	KW	FLA	MCA	MOCP	(LBS)	COMMENTS
DWHP-1	DOMESTIC WATER HEAT PUMP	ROOF / BUILDING HOT WATER SYSTEM	LYNC	AEGIS A 250	---	---	480	3	160.1	35.4	55	80	1670	
DWHX-1	DOMESTIC WATER HEAT EXCHANGER	MECHANICAL ROOM / BUILDING HOT WATER SYSTEM	LYNC	MARK II	---	---	120	1	88	15	---	--	540	
ST-1 ST-2	STORAGE TANK	MECHANICAL ROOM / BUILDING HOT WATER SYSTEM	AO SMITH	TJV-200M	200		---	---	---	---	---	---	2200	
DWST-1	DOMESTIC WATER SWING TANK	MECHANICAL ROOM / BUILDING HOT WATER SYSTEM	PVI	DURAWATT	150	70	480	3	18	22	---	---	2300	

NOTES:

ELECTRIC WATER HEATER SCHEDULE

			BASIS OF DESIGN		TANK CAPACITY	RECOVERY RATE @ 100F RISE	ELECTRICAL				
SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	MFR	MODEL	(GALLONS)	(GPH)	VOLTS	PH	KW	ELEMENTS	COMMENTS
EWH-1	ELECTRIC INSTANTANEOUS WATER HEATER	MULTIROOM 116 / SINK	EEMAX	ED020480T2T FS	---	---	208	3	20	3	POINT OF USE WATER HEATER, 2.0 GPM / 68 DEG F TEMPERATURE RISE; 3/4" HW/CW SUPPLY 20 AMPS PER PHASE
EWH-2	WATER HEATER	RISER ROOM / EMERGENCY SHOWERS AND LAUNDRY	AO SMITH	DRE-120	120	74	480	3	18	3	21.7 AMPS; SIMULTANEOUS OPERATION
EWH-3	ELECTRIC INSTANTANEOUS WATER HEATER	WC 109 / LAVATORY	EEMAX	AM008277T	---	---	277	1	8	1	POINT OF USE WATER HEATER, 0.5 GPM / 110F OUTLET TEMPERATURE; 3/8" HW/CW FITTINGS 29 AMPS

NOTES:

PUMP SCHEDULE

			BASIS OF DESIGN		FLOW	HEAD (FT		ELECTRICAL					
SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	MFR	MODEL	RATE (GPM)	H2O)	RPM	VOLTS	PH	AMPS	WATTS	HP	COMMENTS
CP-1	DOMESTIC HOT WATER CIRCULATING PUMP	WATER HEATER 177 / LOCKER ROOMS AND ADMIN AREAS	TACO	007e-SF4	2	5	1590-4830	120	1	0.54	44	---	STAINLESS STEEL CASING SUITABLE FOR POTABLE WATER USE. PROVIDDE WITH AQUASTAT
CP-2	DOMESTIC HOT WATER CIRCULATING PUMP	BUILDING MECHANICAL 149 / LAUNDRY ROOM AND REST ROOMS	TACO	007e-SF4	1	3	1590-4830	120	1	0.54	44	---	STAINLESS STEEL CASING SUITABLE FOR POTABLE WATER USE. PROVIDDE WITH AQUASTAT

NOTES:

MISCELLANEOUS EQUIPMENT SCHEDULE

			BASIS OF DESIGN			GAS DATA	ELECTRICAL					
SYMBOL	EQUIPMENT TYPE	LOCATION / SERVING	MFR	MODEL	CAPACITY	INPUT (MBH)	VOLTS	PH	AMPS	WATTS	HP	COMMENTS
DWMV-1	DOMESTIC WATER MIXING VALVE	MECH 113	SEE PLUMBING DEVICES SCHEDULE	SEE PLUMBING DEVICES SCHEDULE	---	---	120	1		13	---	SEE PLUMBING DEVICES SCHEDULE
TP-1	TRAP PRIMER	M LOCKER RM 116 / MECH 113	PRECISION PLUMBING PRODUCTS	"PRIME-TIME" PT-10	---	---	120	1	2	11.5	---	CONTROLLER INCLUDES CIRCUIT BREAKER, MANUAL SWITCH, AND TIME CLOCK. SERVES 4 TO 30 DRAINS. FLUSH MOUNT CABINET AND ACCESS PANEL.
TP-2	TRAP PRIMER	LIFEGUARDS 122	PRECISION PLUMBING PRODUCTS	SMART-PRIME SMP-500	---	---	120	1	2	11.5	---	CONTROLLER INCLUDES CIRCUIT BREAKER, MANUAL SWITCH, AND TIME CLOCK. SERVES UP TO 4 DRAINS. PROVIDE ACCESS PANEL.
TP-3	TRAP PRIMER	UNIV. CHANGING 117 / R.R. (1) 119 / R.R (2) 120 / R.R. (3) 121	PRECISION PLUMBING PRODUCTS	"PRIME-TIME" PT-6	---	---	120	1	2	11.5	---	CONTROLLER INCLUDES CIRCUIT BREAKER, MANUAL SWITCH, AND TIME CLOCK. SERVES 4 TO 30 DRAINS. FLUSH MOUNT CABINET AND ACCESS PANEL.
TP-4	TRAP PRIMER	W LOCKER RM 118	PRECISION PLUMBING PRODUCTS	"PRIME-TIME" PT-10	---	---	120	1	2	11.5	---	CONTROLLER INCLUDES CIRCUIT BREAKER, MANUAL SWITCH, AND TIME CLOCK. SERVES 4 TO 30 DRAINS. FLUSH MOUNT CABINET AND ACCESS PANEL.
TP-5	TRAP PRIMER	RISER 129 / PUMP ROOM 126	PRECISION PLUMBING PRODUCTS	"PRIME-TIME" PT-6	---	---	120	1	2	11.5	---	CONTROLLER INCLUDES CIRCUIT BREAKER, MANUAL SWITCH, AND TIME CLOCK. SERVES 4 TO 30 DRAINS. FLUSH MOUNT CABINET AND ACCESS PANEL.
TP-6	TRAP PRIMER	PUMP ROOM 126	PRECISION PLUMBING PRODUCTS	"PRIME-TIME" PT-4	---	---	120	1	2	11.5	---	CONTROLLER INCLUDES CIRCUIT BREAKER, MANUAL SWITCH, AND TIME CLOCK. SERVES 4 TO 30 DRAINS. FLUSH MOUNT CABINET AND ACCESS PANEL.
TP-7	TRAP PRIMER	WC 109	PRECISION PLUMBING PRODUCTS	FVP-1VB	---	---	---	---	---	---	---	PROVIDE ACCESS PANEL.
PW-1	PRESSURE WASHING SYSTEM	RISER 129	EASIWASH	5200	---	---	208	1	30	---	5	PROVIDE 1/2" HOT AND COLD WATER CONNECTIONS AT EACH LOCATION. 3.6 GPM FLOW RATE, 2000 PSI PRESSURE, 152 LBS

NOTES:

DOMESTIC WATER PRESSURE BOOSTER SYSTEM

EQUIP.	SERVICE	NO. OF	GPM/EA	SYSTEM PRESSURE VALUES				MOTOR DATA AND VALUES			CONTROL PANEL					DESIGN BASIS
NO.	LOCATION	PUMPS	PUMP	TDH [Feet]	SUCTION [PSI]	BOOST [PSI]	SET [PSI]	RPM	HP	kWh PER YR.	VOLTAGE	PHASE	FULL LOAD	MAX. SCCR	REMARKS	MODEL
DWBP-1	RISER 129	2	70	58.65	30	25.39	50.39	3,450	3	6682.5	460	Three Phase	10.2	100KAIC	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	QUANTUMFLO-42510: PRODIGY DUPLEX QES_341-3-2-5.88

1. NET BOOST PRESSURE IS CALCULATED BY SYSTEM SET PRESSURE MINUS SUCTION PRESSURE LESS SYSTEM LOSSES OF 5 PSI
2. SYSTEM SUBMITTALS SHALL INCLUDE CERTIFICATE NUMBER FOR NSF61 CERTIFICATION, UL508A AND QCZJ 3RD PARTY COMPLIANCE.
3. SYSTEM MUST BE MANUFACTURED AND ASSEMBLED IN AN ISO 9001 AND ISO 45001 CERTIFIED FACILITY
4. SYSTEM CONTROLS MUST COMPLY WITH AND PROVIDE FOR EITHER CONTROL LOGIC OR REMOTE SENSOR IN ACCORDANCE WITH ANSI/ASHRAE/IES STANDARD 90.1 ENERGY STANDARD
5. PROVIDE 5-YEAR WARRANTY ON COMPLETE SYSTEM AND INCLUDE WARRANTY CERTIFICATE WITH DETAILS IN SUBMITTALS
6. SYSTEM SHALL BE PRE-SET TO SYSTEM SITE CONDITIONS BY SIMULATING SUCTION PRESSURE. HYDROSTATIC-ONLY TESTING IS NOT ACCEPTABLE.
7. THE INDUSTRIAL CONTROLLER SHALL BE IN COMPLIANCE WITH CURRENT NEC, SECTION 409.110 HAVING A MAXIMUM 100K AVAILABLE FAULT CURRENT.
8. SCCR RATINGS MUST BE INCLUSIVE OF ALL COMPONENTS WITHIN THE ENCLOSURE WITHOUT THE NEED TO PROVIDE ADDITIONAL UPSTREAM PROTECTION.
9. EQUAL SYSTEMS MUST SHOW MATHEMATICAL ANALYSIS PROVING THAT THE ALTERNATE SUPPLIER MEETS OR EXCEEDS THE KW CAPACITY LISTED.
10. PROVIDE THE FOLLOWING OPTIONS: VIBRATION ISOLATION KIT
11. REPRESENTATIVE: SUNTOYA CORPORATION - OREGON. PHONE: (509) 534-1516
12. BASED ON PROJECT: SOUTH WHIDBEY AQUATIC CENTER (042510)

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South Whidbey PARKS & RECREATION DISTRICT

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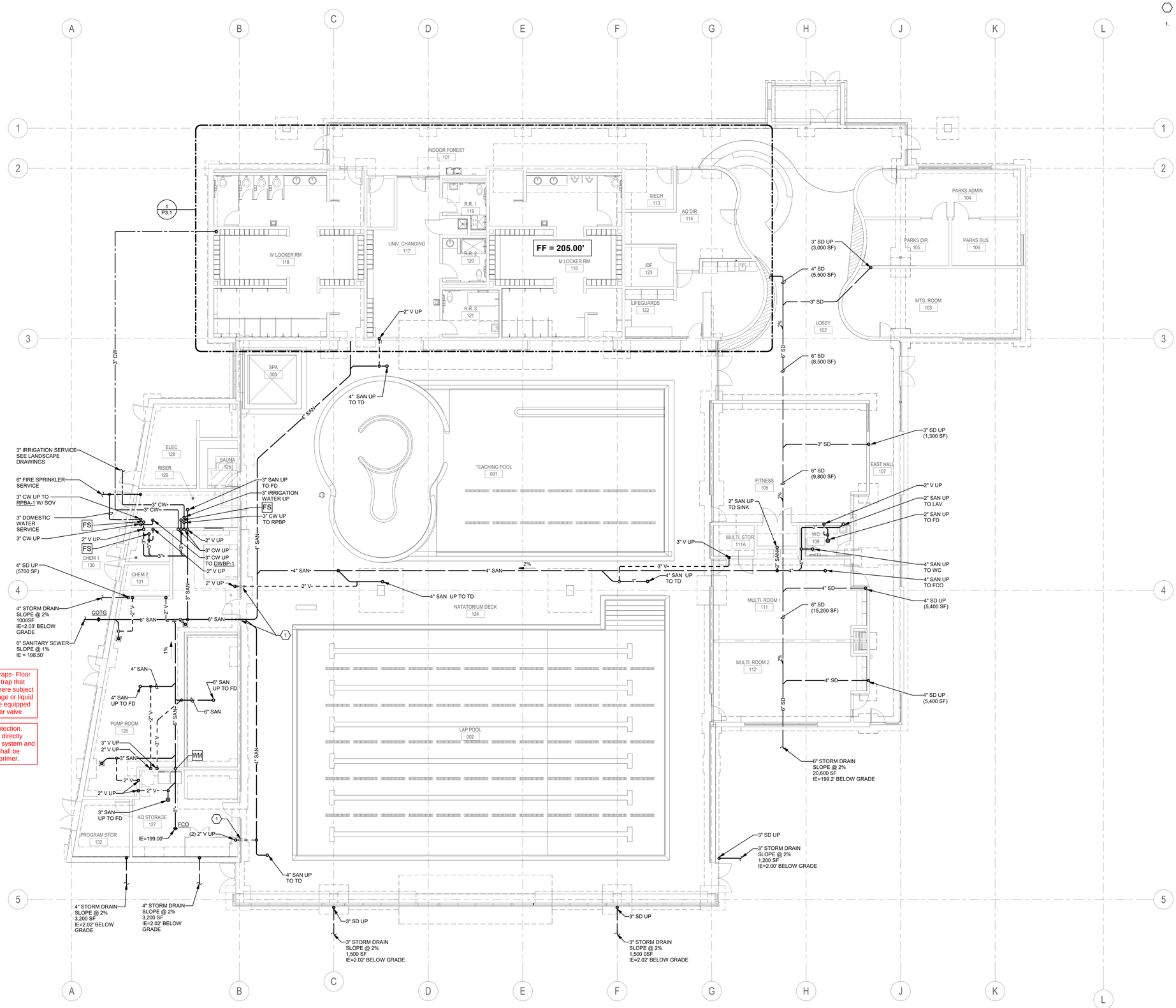
SHEET:

P0.3

SHEET KEYNOTES

1. SCHEDULE 80 PVC SLEEVE TO BE PROVIDED/INSTALLED.



UPC 1006.0 Floor Drain Traps- Floor drains shall connect into a trap that can be easily cleaned. Where subject to the reverse flow of sewage or liquid waste, such drains shall be equipped with an approved backwater valve

UPC 1007.0 Trap Seal protection. Floor drain or similar traps directly connected to the drainage system and subject to infrequent use shall be protected with a trap seal primer.

1 UNDERFLOOR PLAN - PLUMBING

0' 4' 8' 16'

1/8" = 1'-0"

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UNDERFLOOR PLAN - PLUMBING

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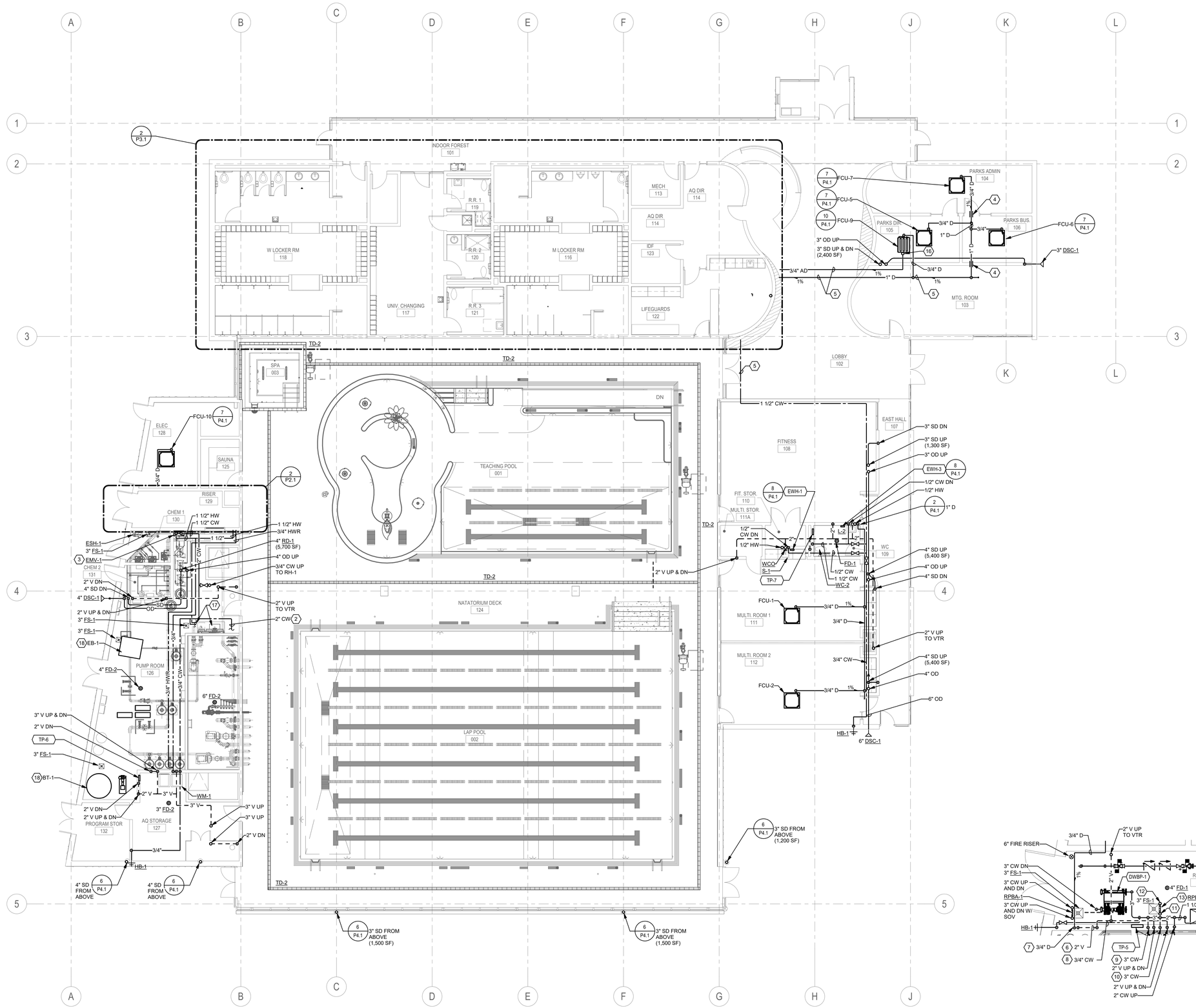
DRAWN: QB
CHECKED: CS
PROJECT NO: 2022021.000

SHEET:

P2.0

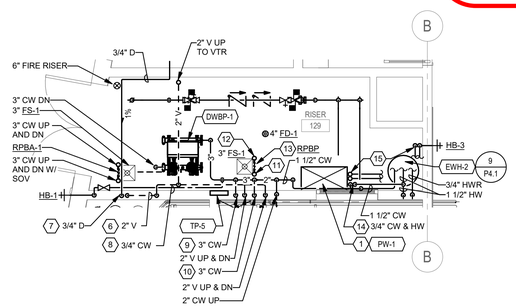
SHEET KEYNOTES

1. EQUIPMENT IS PART OF EASIWASH SYSTEM. PROVIDE COMPLETE SYSTEM AS NEEDED. COORDINATE WITH EASIWASH MANUFACTURER. MOUNT ON WALL AND COORDINATE LOCATION WITH WINDOW AND EQUIPMENT.
2. PROVIDE 2-INCH COLD WATER TO POOL FILL EQUIPMENT. COORDINATE EXACT LOCATION WITH POOL EQUIPMENT CONTRACTOR.
3. ROUTE 1-1/2" TEMPERED WATER LINE FROM EMV-1 TO EMERGENCY SHOWER LOCATED IN CHEM 1. REFER TO POOL DRAWINGS FOR EMERGENCY SHOWER LOCATION.
4. COORDINATE DRILLING AND SLEEVES THRU BEAM FOR CONDENSATE ROUTING. MAIN LINE ROUTING, THRU LOBBY AREA, TO BE INSTALLED ALONG BEAM.
5. ROUTE PIPE ALONG BEAM.
6. COMBINE VENTS FROM FLOOR SINKS IN WALL, THEN ROUTE TO CEILING.
7. ROUTE 3/4-INCH CONDENSATE PIPING DOWN IN WALL, THEN THRU, FOR INDIRECT DISCHARGE OVER FLOOR SINK - FS-1.
8. ROUTE 3/4" CW ALONG WALL TO SERVE HOSE BIBB - HB-1. SECURE TO WAL AS NEEDED OR REQUIRED BY CODE.
9. 3" CW DN TO SERVE BUILDING. SEE P2.0 FOR CONTINUATION.
10. 3" CW DN FOR CONNECTION TO IRRIGATION RPBP. SEE 2.0 FOR CONTINUATION.
11. 3" CW UP & DN. CONNECT TO IRRIGATION RPBP.
12. 3" CW UP & DN. OFFSET FOR CONNECTION TO IRRIGATION SYSTEM. SEE P2.0 FOR CONTINUATION.
13. IRRIGATION REDUCED PRESSURE BACKFLOW ASSEMBLY.
14. 3/4" CW AND HW DN TO SERVE PRESSURE WASHER SYSTEM PW-1.
15. 3/4" CW AND HW FROM PW-1 TO SERVE HB-3. OFFSET PIPING LOW ON WALL. SECURE TO WAL AS NEEDED OR REQUIRED BY CODE.
16. AUXILIARY DRAIN FROM FCU-9 DRAIN PAN.
17. ROUTE 3/4" HW/CW TO TESTING STATION (BY OTHERS) COORDINATE WITH POOL CONTRACTOR FOR FINAL CONNECTIONS NEEDED.
18. CONNECT CONDENSATE TO HVAC EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. OFFSET CONDENSATE TO FLOOR SINK FS-1 FOR INDIRECT DISCHARGE. COORDINATE WITH DIVISION 23.



1 1st FLOOR PLAN - PLUMBING

0' 4' 8' 16'
1/8" = 1'-0"



2 ENLARGED RISER ROOM PLAN - PLUMBING

0' 2' 4' 8'
1/4" = 1'-0"

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100 SW Main Street, Suite 1600
Portland, OR 97204
TEL 503.382.2266
www.interfaceengineering.com

S WHIDBEY PKS & REC AQUATIC REC CENTER

5491 MAXWELTON RD
LANGLEY, WA 98260

South Whidbey Parks & Recreation District

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description

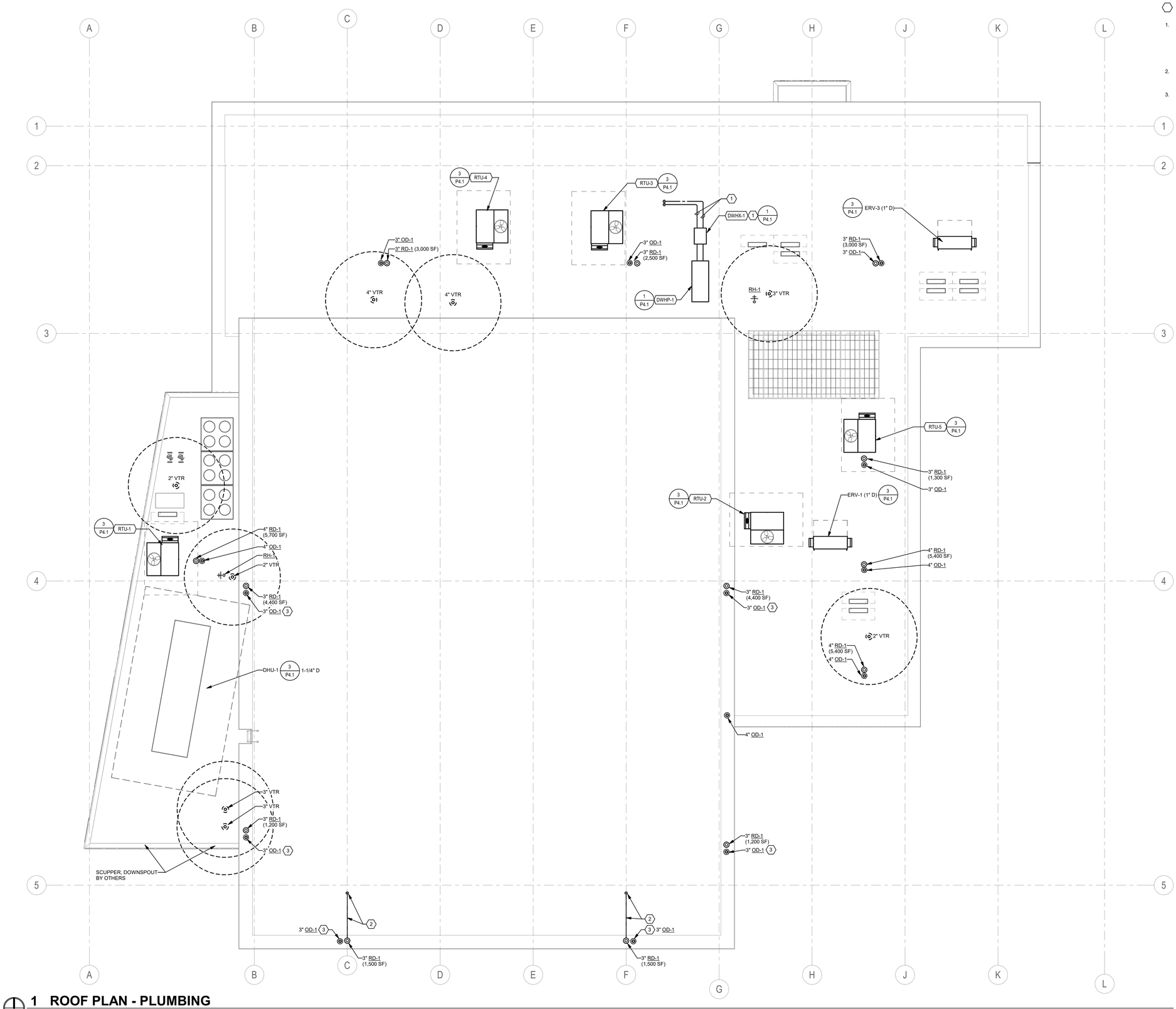
CONTENTS:
1st FLOOR PLAN - PLUMBING

SCALE: As indicated
DRAWN: QB
CHECKED: CS
PROJECT NO: 2022021.000

SHEET:
P2.1

SHEET KEYNOTES

1. INSTALL HEAT TRACE ON ALL EXPOSED WATER PIPING ON ROOF AND ON ALL WATER PIPING INSIDE HEAT EXCHANGER (DWHX-1). PIPING BETWEEN HEAT EXCHANGE AND HEAT PUMP WILL CONTAIN GLYCOL AND WILL NOT REQUIRE HEAT TRACE. INSTALL HEAT TRACE CONTROLLER IN MECHANICAL ROOM BELOW.
2. STROM DRAIN PIPING ROUTED BELOW CANOPY. OFFSET TO DOWNSPOUT. SEE P2.1 FOR CONTINUATION.
3. DAYLIGHT OVERFLOW DRAIN THRU CANOPY. COORDINATE WITH ARCHITECTURAL.



1 ROOF PLAN - PLUMBING

0' 4' 8' 16'

1/8" = 1'-0"

ISLAND COUNTY
Reviewed For
2021 IBC
Code Compliance
07/18/2025
Brian Boyle

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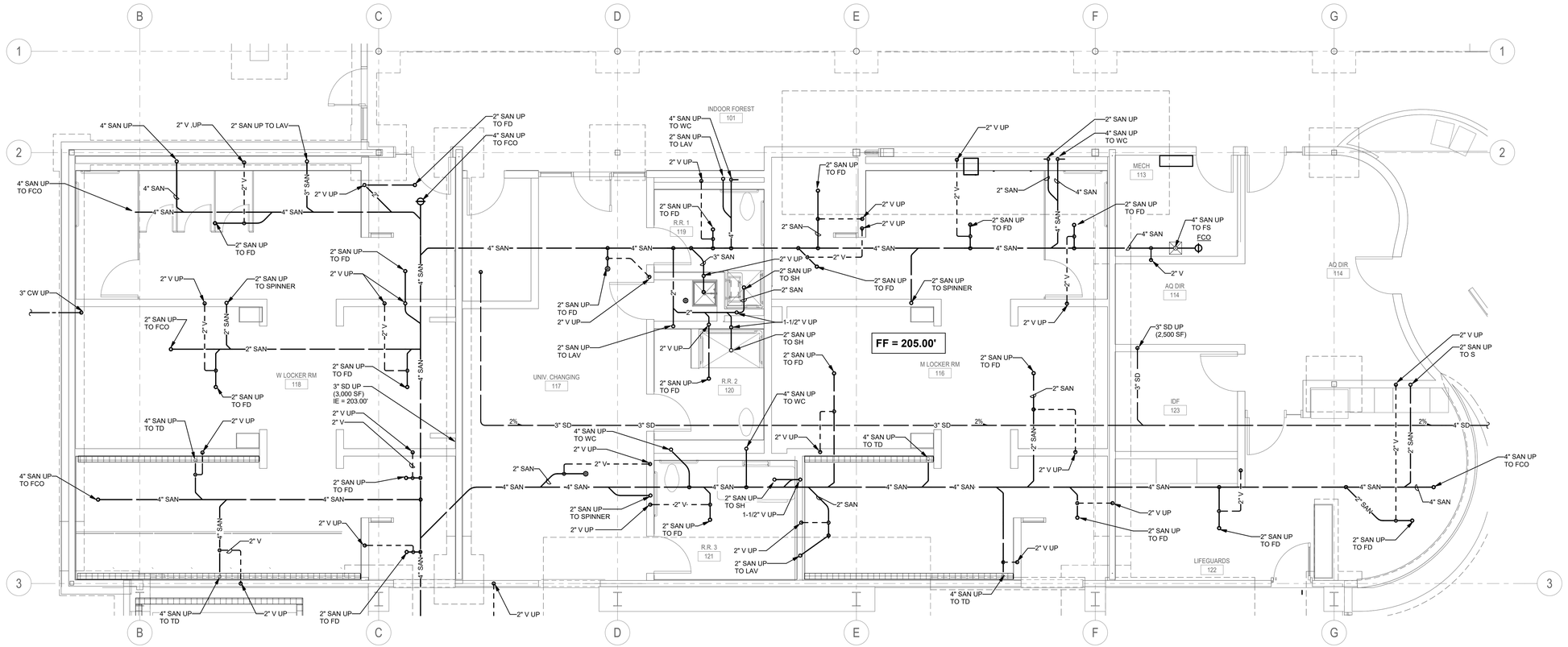
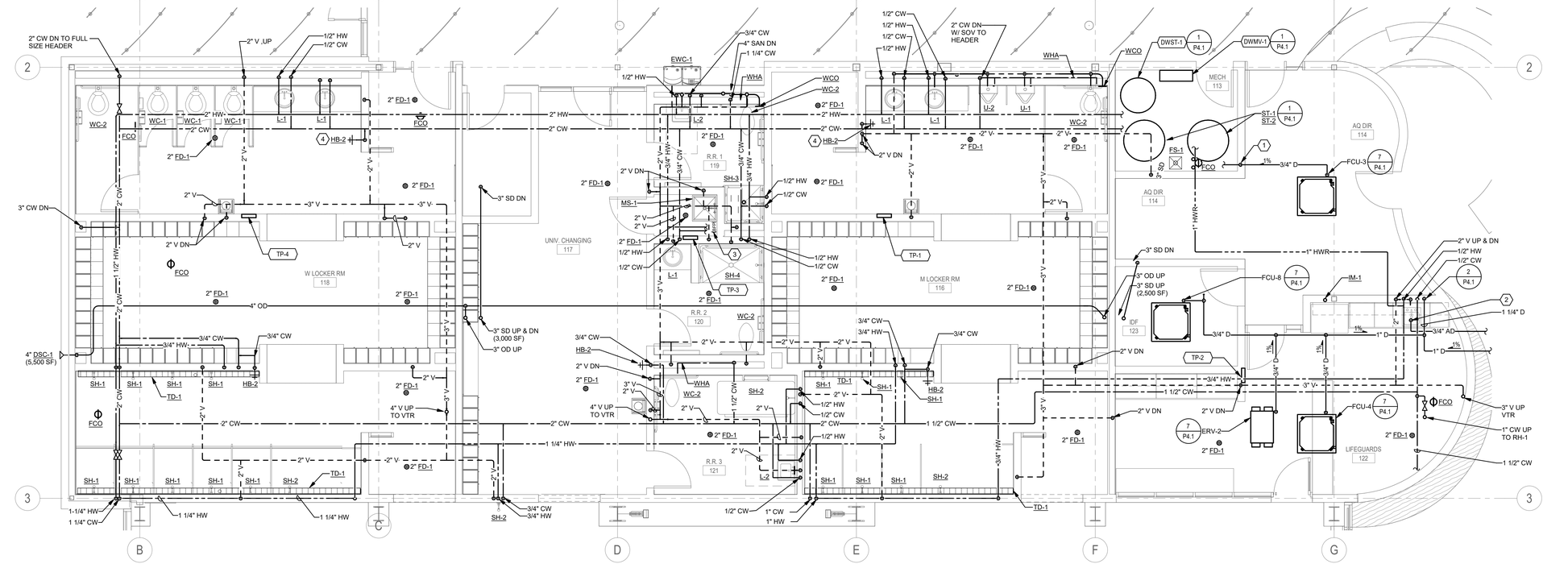
ROOF PLAN - PLUMBING

SCALE: 1/8" = 1'-0"
DRAWN: QB
CHECKED: CS
PROJECT NO: 2022021.000

SHEET:

P2.3





SHEET KEYNOTES

1. ROUTE CONDENSATE DN IN WALL. EXTEND THRU WALL (ABOVE FLOOR). OFFSET TOWARDS FLOOR SINK AT A 1% SLOPE FOR INDIRECT DISCHARGE OVER FLOOR SINK FS-1.
2. DAYLIGHT EMEGENCY DRAIN, SERVING FCU-9, 1-INCH BELOW CEILING OVER SINK.
3. PROVIDE AND INSTALL BACKFLOW PREVENTER FOR THE HOT AND COLD WATER PIPING PRIOR TO CONNECTION TO CHEMICAL STATION AND MOP SINK MS-1.
4. 3/4" CW TO HOSE BIBB HB-2. PROVIDE SHUT-OFF VALVE.

UPC 1006.0 Floor Drain Traps- Floor drains shall connect into a trap that can be easily cleaned. Where subject to the reverse flow of sewage or liquid waste, such drains shall be equipped with an approved backwater valve

UPC 1007.0 Trap Seal protection. Floor drain or similar traps directly connected to the drainage system and subject to infrequent use shall be protected with a trap seal primer.

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ENLARGED PLANS - PLUMBING

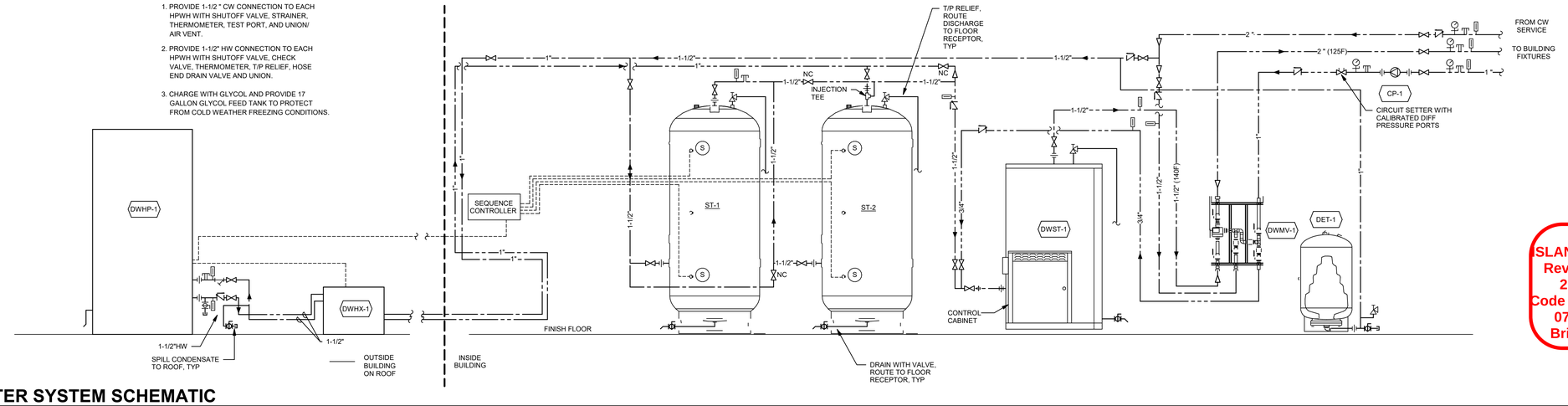
SCALE: 1/4" = 1'-0"
DRAWN: QB
CHECKED: CS
PROJECT NO: 2022021.000

SHEET:

P3.1

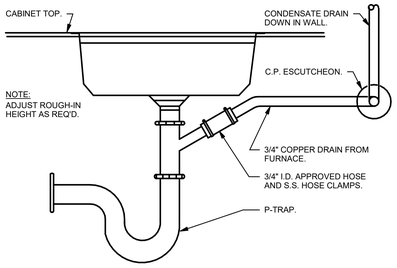
HPWH CONNECTION NOTES:

1. PROVIDE 1-1/2 " CW CONNECTION TO EACH HPWH WITH SHUTOFF VALVE, STRAINER, THERMOMETER, TEST PORT, AND UNION/ AIR VENT.
2. PROVIDE 1-1/2" HW CONNECTION TO EACH HPWH WITH SHUTOFF VALVE, CHECK VALVE, THERMOMETER, T/P RELIEF, HOSE END DRAIN VALVE AND UNION.
3. CHARGE WITH GLYCOL AND PROVIDE 17 GALLON GLYCOL FEED TANK TO PROTECT FROM COLD WEATHER FREEZING CONDITIONS.



1 HOT WATER SYSTEM SCHEMATIC

NO SCALE

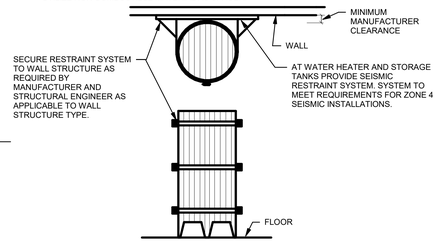


2 CONDENSATE DRAIN CONNECTION

NO SCALE

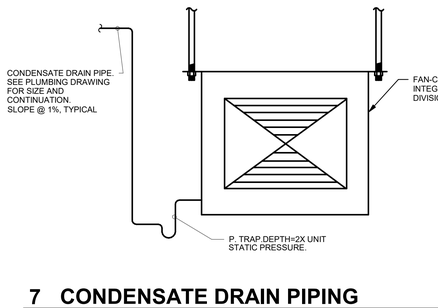
SIZE	TANK HGT ABOVE FLOOR	NO. OF STRAPS	LOCATION
66 GAL OR LESS	12" OR LESS	1	BETWEEN TOP 1/3 AND 1/2 OF TANK
66 GAL OR LESS	MORE THAN 12"	2	TOP-IN TOP 1/3 OF TANK BOTTOM-3" ABOVE OR BELOW ACCESS PANEL
66 GAL OR 100	12" OR LESS	2	TOP-IN TOP 1/3 OF TANK BOTTOM-3" ABOVE OR BELOW ACCESS PANEL
66 GAL OR 100	MORE THAN 12"	3	TOP-IN TOP 1/3 OF TANK BOTTOM-3" ABOVE OR BELOW ACCESS PANEL MIDDLE-CENTER OF TANK

NOTE: MAINTAIN CLEARANCES TO COMBUSTIBLES AS REQUIRED BY MANUFACTURER. UTILIZE NON COMBUSTIBLE MATERIAL AS SPACER.



5 EARTHQUAKE BRACING

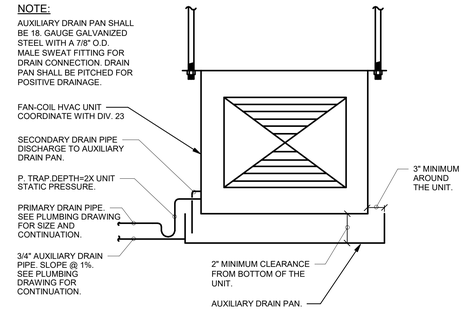
NO SCALE



7 CONDENSATE DRAIN PIPING

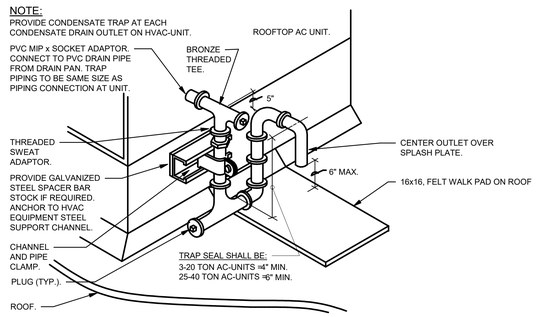
NO SCALE

NOTE:
AUXILIARY DRAIN PAN SHALL BE 18. GAUGE GALVANIZED STEEL WITH A 7/8" O.D. MALE SWEAT FITTING FOR DRAIN CONNECTION. DRAIN PAN SHALL BE PITCHED FOR POSITIVE DRAINAGE.



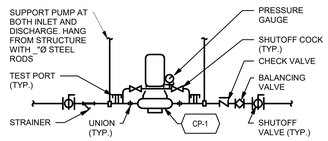
10 CONDENSATE DRAIN PIPING

NO SCALE



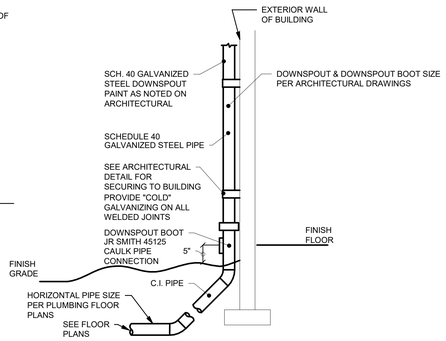
3 CONDENSATE TRAP

NO SCALE



4 IN-LINE PUMP

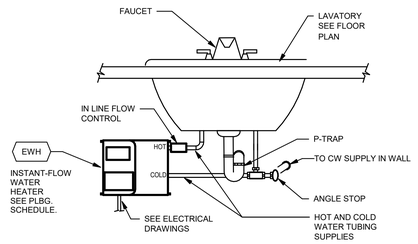
NO SCALE



NOTE: SEE ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

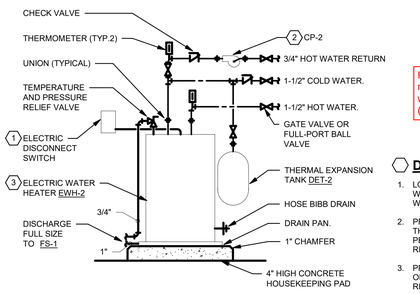
6 DOWNSPOUT - SECTION VIEW AT EXTERIOR WALL

NO SCALE



8 LAV/INSTANT FLOW WATER HEATER

NO SCALE



Per RCW 19.260.080 An electric storage water heater, if manufactured on or after January 1, 2021, must be equipped with a modular demand response communications port. (See full RCW for all details)

DETAIL KEYNOTES

1. LOCATE DISCONNECT SWITCH WITH 50-FEET OF UNIT AND WITHIN CLEAR SIGHT OF UNIT.
2. PROVIDE TIME CLOCK OR THERMAL CONTROL SWITCH PER OREGON ENERGY CODE REQUIREMENTS.
3. PROVIDE SEISMIC SUPPORT AT ONE-THIRD AND TWO-THIRDS. REFERENCE DETAIL 5/P4.1.

9 ELECTRICAL WATER HEATER

NO SCALE

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Sound to Olympics PARKS & RECREATION DISTRICT

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DETAILS - PLUMBING

SCALE: NO SCALE
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SHEET:

P4.1

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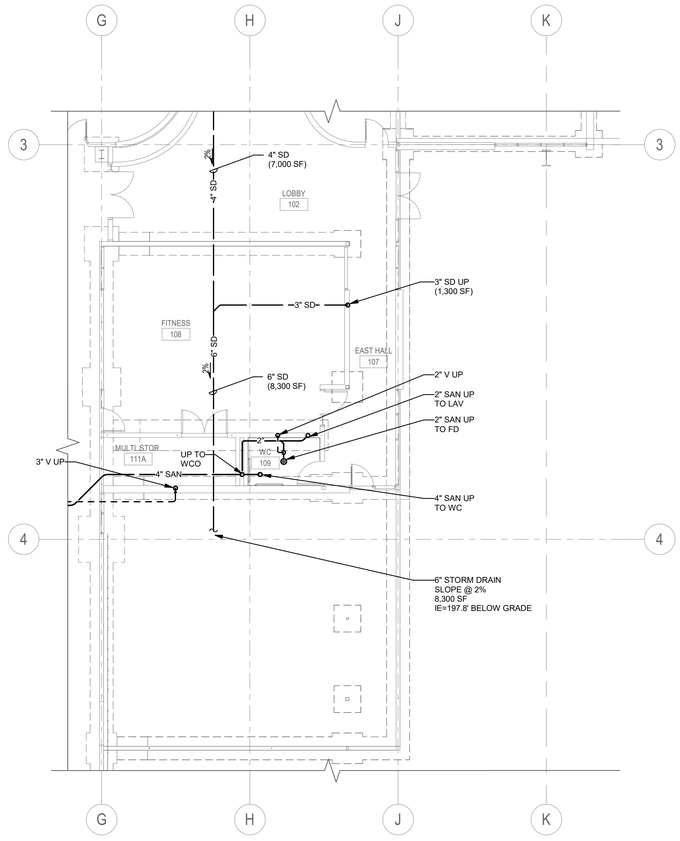
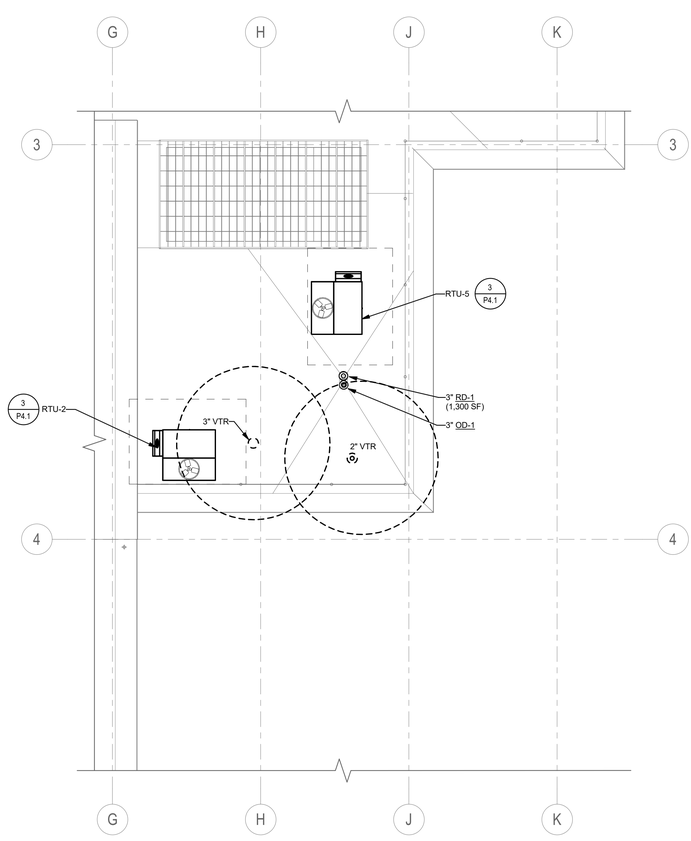
SHEET KEYNOTES

1. ROUTE CW DN IN WALL. CONNECT TO WATER CLOSET AND HOSE BIBB. PROVIDE SOV, WATER HAMMER ARRESTOR AND ACCESS PANEL.
2. INSTALL OVERFLOW DRAIN COVER ABOVE HOSE BIBB.



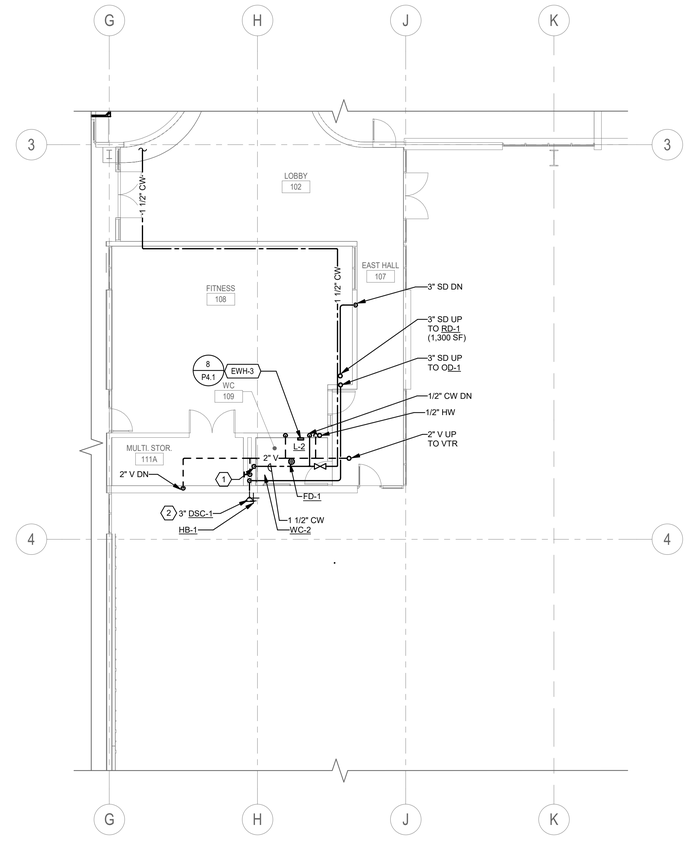
3 UNDERFLOOR PLAN - PLUMBING - ALTERNATE 1

0' 4' 8' 16'
1/8" = 1'-0"



2 ROOF PLAN - PLUMBING - ALTERNATE 1

0' 4' 8' 16'
1/8" = 1'-0"



1 1st FLOOR PLAN - PLUMBING - ALTERNATE 1

0' 4' 8' 16'
1/8" = 1'-0"

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1st FLOOR PLAN - PLUMBING - DEDUCTIVE ALT 1

SCALE: 1/8" = 1'-0"
DRAWN: QB
CHECKED: TL
PROJECT NO: 2022021.000

SHEET:
P11.1

SHEET KEYNOTES

1. ROUTE CONDENSATE PIPING AS HIGH AS POSSIBLE. SLOPE @ 1%.

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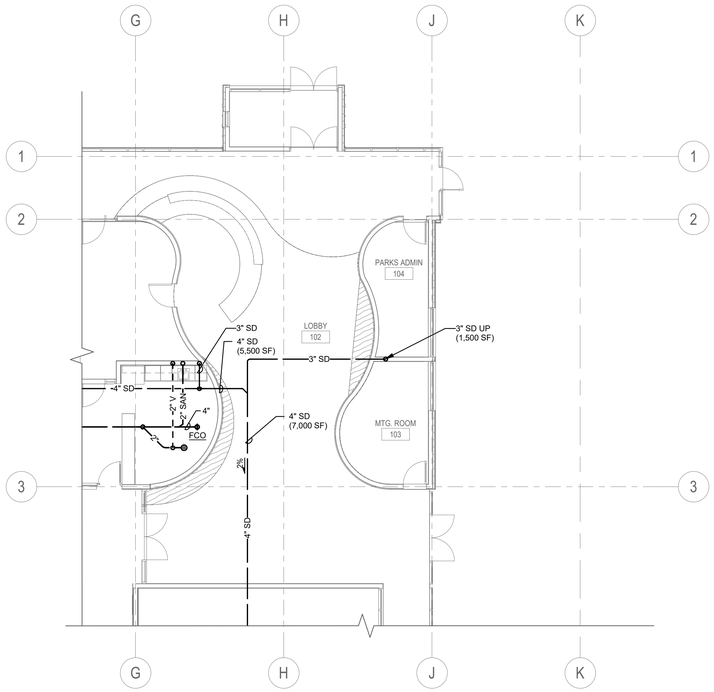
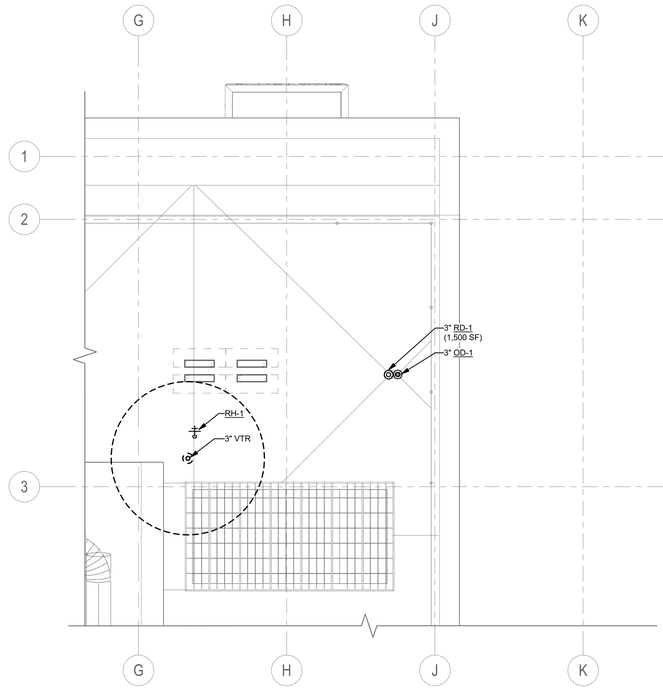


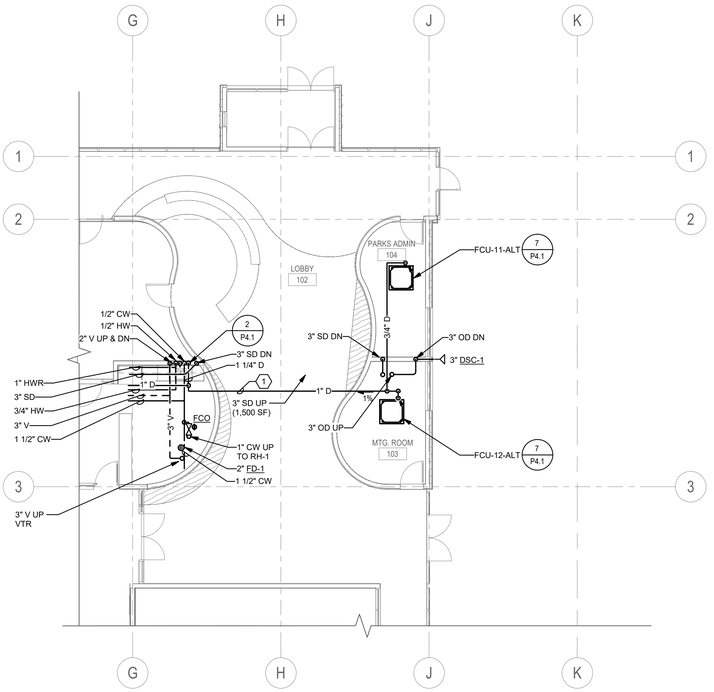
3 UNDERFLOOR PLAN - PLUMBING - ALTERNATE 2

0' 4' 8' 16'
1/8" = 1'-0"



2 ROOF PLAN - PLUMBING - ALTERNATE 2

0' 4' 8' 16'
1/8" = 1'-0"



1 1st FLOOR PLAN - PLUMBING - ALTERNATE 2

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1/8" = 1'-0"

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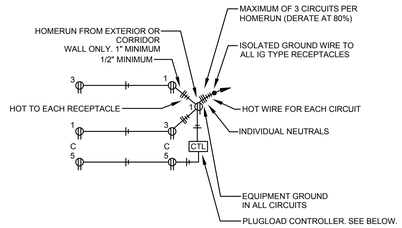
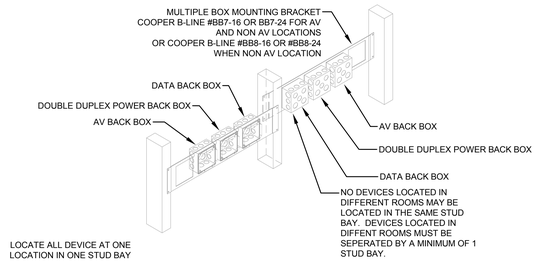
SHEET:

P11.2



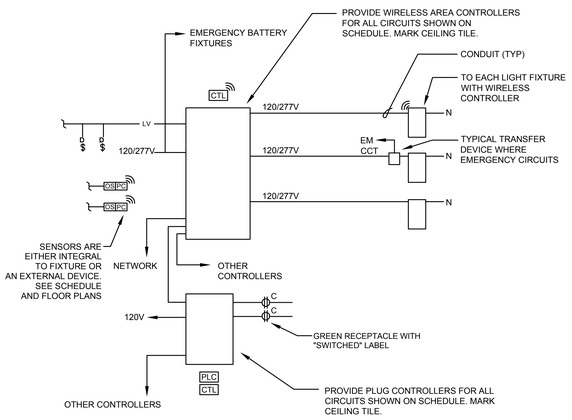
TYPICAL RECEPTACLE CIRCUITING DETAIL

SCALE: NONE



POWER, DATA AND AV ROUGH IN DETAIL

SCALE: NONE



TYPICAL WIRELESS LIGHTING CONTROL DETAIL

SCALE: NONE

LEGEND

- CONDUIT CONCEALED IN CEILING OR WALLS
- CONDUIT CONCEALED UNDERGROUND, UNDER FLOOR, OR IN WALL
- 3/4" CONDUIT. TICK MARKS INDICATE NUMBER OF #12 WIRES. NO TICK MARKS EQUALS 2#12. GROUND WIRE NOT SHOWN. PROVIDE GROUND WIRE IN ALL 120V AND ABOVE CIRCUITS.
- 3/4" CONDUIT. TICK MARKS INDICATE NUMBER OF #12 WIRES. NO TICK MARKS EQUALS 2#12. PROVIDE GROUND WIRE IN ALL 120V AND ABOVE CIRCUITS. DOT INDICATES ISOLATED GROUND WIRE.
- EXPOSED CONDUIT
- UNDER FLOOR DUCT WITH FLUSH ACTIVATIONS SHOWN
- EXISTING CONDUIT WITH NEW WIRES INDICATED BY TICK MARKS
- EXISTING CONDUIT
- HOME RUN TO DESTINATION INDICATED. 1" MINIMUM UNLESS NOTED OTHERWISE.
- RECESSED LIGHT FIXTURE, LETTERS DENOTE SWITCHING, PROVIDE BALLASTS ACCORDINGLY.
- SURFACE OR PENDANT MOUNTED LIGHT FIXTURE
- SURFACE OR PENDANT MOUNTED FIXTURE
- FIXTURE WITH INTERNAL BATTERY BACKUP.
- RECESSED LIGHT FIXTURE
- SURFACE OR PENDANT LIGHT FIXTURE
- WALL MOUNTED FIXTURE
- STEP LIGHT
- D — LED DRIVER
- DIRECTIONAL LIGHT
- VANITY LIGHT, WALL MOUNT
- WALL SCONCE FIXTURE
- POLE TOP LIGHT FIXTURE LIGHT FIXTURE
- POLE LIGHT
- EXIT SIGN LIGHT FIXTURE TYPE X, EXCEPT AS NOTED
- WALL SWITCH, 1-POLE (SWITCH LEG INDICATED WHERE REQUIRED)
- WALL SWITCH, 2-POLE
- WALL SWITCH, 3-WAY
- WALL SWITCH, 4 WAY
- DIGITAL SWITCH
- DIGITAL SWITCH KEY SWITCH
- WALL SWITCH, KEYED OPERATED, TYPE AS INDICATED
- WALL SWITCH, 3-WAY, KEYED OPERATED, TYPE AS INDICATED
- MANUAL MOTOR STARTING SWITCH
- WALL SWITCH WITH PILOT LIGHT
- REMOTE SWITCH
- WALL SWITCH WITH INTEGRAL OCCUPANCY SENSOR
- OS — OCCUPANCY SENSOR
- OSWC — OCCUPANCY SENSOR WALL MOUNT
- PC — PHOTO CELL
- PCWC — PHOTO CELL WALL MOUNT
- CTL PCL — PLUG LOAD CONTROLLER
- CTL — LIGHTING CONTROLLER
- XXX (XXXX) — LIGHTING FIXTURE TYPE DESIGNATOR, SEE LIGHT FIXTURE SCHEDULE
- DUPLEX RECEPTACLE, TAMPERPROOF
- C — DUPLEX RECEPTACLE, CONTROLLED, TAMPERPROOF
- M — DUPLEX RECEPTACLE AT MONITOR
- DUPLEX RECEPTACLE TAMPERPROOF ABOVE COUNTER
- C — DOUBLE DUPLEX TAMPERPROOF RECEPTACLE ONE DUPLEX CONTROLLED, OTHER DUPLEX UNCONTROLLED MOUNTED ABOVE COUNTER
- C — DOUBLE DUPLEX TAMPERPROOF RECEPTACLE ONE DUPLEX CONTROLLED, OTHER DUPLEX UNCONTROLLED
- DOUBLE DUPLEX RECEPTACLE, TAMPERPROOF
- WP — WEATHERPROOF DOUBLE DUPLEX RECEPTACLE (GFI TYPE), TAMPERPROOF WITH LOCKABLE COVER
- IG — RECEPTACLE ISOLATED GROUND TYPE, TAMPERPROOF
- GFI — DUPLEX TAMPERPROOF RECEPTACLE GFI TYPE
- WP — WEATHERPROOF DUPLEX RECEPTACLE (GFI TYPE), TAMPERPROOF WITH LOCKABLE COVER
- SPLIT WIRED TAMPERPROOF RECEPTACLE
- 1Ø SPECIAL RECEPTACLE AS NOTED
- 3Ø SPECIAL RECEPTACLE AS NOTED
- PUSHBUTTON SWITCH
- A — ADA DOOR ACTUATOR
- EQUIPMENT CONNECTION
- MOTOR CONNECTION
- DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- MANUAL MOTOR STARTER
- MAGNETIC MOTOR STARTER
- COMBINATION STARTER
- VFD — VARIABLE FREQUENCY DRIVE
- ECM — ECM CONTROLLER
- FC — FAN CONTROLLER
- THERMOSTAT
- JB — JUNCTION BOX
- B — BLIND CONNECTION
- CF — CEILING FAN CONNECTION

LEGEND

- V — VOLUME CONTROL
- AV1 AV2 AVM — AV SYSTEM OUTLETS
- S — CEILING INTERCOM SPEAKER
- SH — WALL MOUNTED INTERCOM SPEAKER
- SS SS S — AV SYSTEM SPEAKER
- $ SZ — WALL MOUNTED AV SYSTEM SPEAKER
- DIGITAL CLOCK
- DIGITAL CLOCK/SPEAKER COMBINATION BAFFLE
- SB — SCOREBOARD
- CS — INTERCOM SYSTEM CALL SWITCH
- FUTURE COMPUTER OUTLET WITH 1" CONDUIT TO ABOVE ACCESSIBLE CEILING
- DATA OUTLET (NUMBER = NUMBER OF RJ45 JACKS, NO NUMBER = 1) WITH 1.25" CONDUIT TO ABOVE CEILING TO DATA ROOM. OPEN CABLING ALLOWED IN ACCESSIBLE CEILING
- WAP — WIRELESS ACCESS POINT
- V — VIDEO SURVEILLANCE OUTLET AT CAMERA
- A — ACCESS CONTROL OUTLET - 1 DATA CABLE AND 4#18 POWER CABLE TO MDF/IDF
- I — INTERCOM DATA OUTLET
- AMP — VOICE ENHANCEMENT SYSTEM AMP
- WM — WIRELESS MIC ANTENNA
- AL — ASSISTED LISTENING ANTENNA
- REQ — REQUEST TO EXIT
- CR — CARD READER
- CRJ — CARD READER, JAMB MOUNTED.
- DS — DOOR SWITCH
- MS — MOTION SENSOR
- MSH — MOTION SENSOR WALL MOUNT
- REQUEST TO EXIT IN DOOR HARDWARE
- K — SECURITY KEYPAD
- EL — ELECTRIC LOCK
- FIRE ALARM SPEAKER/STROBE
- F — FIRE ALARM PULL STATION
- FIRE ALARM ADA STROBE WALL MOUNTED
- FIRE ALARM ADA STROBE
- S — SMOKE DETECTOR/SENSOR
- SD — DUCT SMOKE DETECTOR
- HEAT DETECTOR, FIXED TEMPERATURE
- HEAT DETECTOR/SENSOR (THERMAL DETECTION)
- D — DOOR HOLDER-PROVIDED BY HARDWARE SUPPLIER. CONNECTION BY ELEC.
- SD — SMOKE DAMPER CONNECTION
- DH — DOOR HOLDER-PROVIDED BY HARDWARE SUPPLIER. CONNECTION BY ELEC.
- SD — FIRE ALARM SMOKE DAMPER RELAY, SEE
- SPRINKLER CONNECTION

LEGEND

- EXIST DEVICE/FIXTURE AS INDICATED
- EXISTING PANCAKE MOLD WITH INTEGRAL DEVICES AS INDICATED.
- EXIST DEVICE/FIXTURE AS INDICATED TO BE REMOVED
- CIRCUIT BREAKER
- SWITCH
- FUSED SWITCH
- FUSE
- TRANSFORMER
- GROUNDING PER CODES
- BUS TAP
- 208V OR 240V PANEL
- LVR
- 480V PANEL
- T — TRANSFORMER
- FOIC — FURNISHED BY OWNER INSTALLED BY CONTRACTOR
- FOIO — FURNISHED BY OWNER INSTALLED BY OWNER
- GFI — GROUND FAULT CIRCUIT INTERRUPTER
- IG — ISOLATED GROUND
- WP — WEATHERPROOF
- A — ACCESS CONTROL CIRCUIT AS REQUIRED. PROVIDE IN RACEWAY IN WALLS AND ABOVE NON ACCESSIBLE CEILINGS.
- AV — AV SYSTEM CIRCUITRY. SEE AV DIAGRAMS.
- CT — CABLE TRAY
- FA — FIRE ALARM SYSTEM CIRCUITRY AS REQUIRED BY MANUFACTURER IN METALLIC RACEWAY
- I — INTERCOM SYSTEM CIRCUITRY. PROVIDE IN RACEWAY IN WALLS AND ABOVE NON-ACCESSIBLE CEILINGS
- LV — LOW VOLTAGE CIRCUITRY AS REQUIRED BY MANUFACTURER IN RACEWAY WHERE IN WALLS, ABOVE NON-ACCESSIBLE CEILINGS OR EXPOSED.
- S — SECURITY SYSTEM CIRCUITRY AS REQUIRED BY MANUFACTURER. ROUTE IN RACEWAYS WHERE IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS.
- T — DATA AND VOICE CABLES. QUANTITY AND TYPE AS INDICATED BY OUTLET
- A / B — DETAIL INDICATOR WITH SHEET WHERE DRAWN INDICATED
- SECTION INDICATOR
- XXXX — AVAILABLE FAULT CURRENT AS INDICATED
- 1 — FLAG NOTE

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South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:

LEGEND

SCALE: AS SHOWN
DRAWN: AS, EL
CHECKED: AB
PROJECT NO: 2022021.000

SHEET:

E1.0

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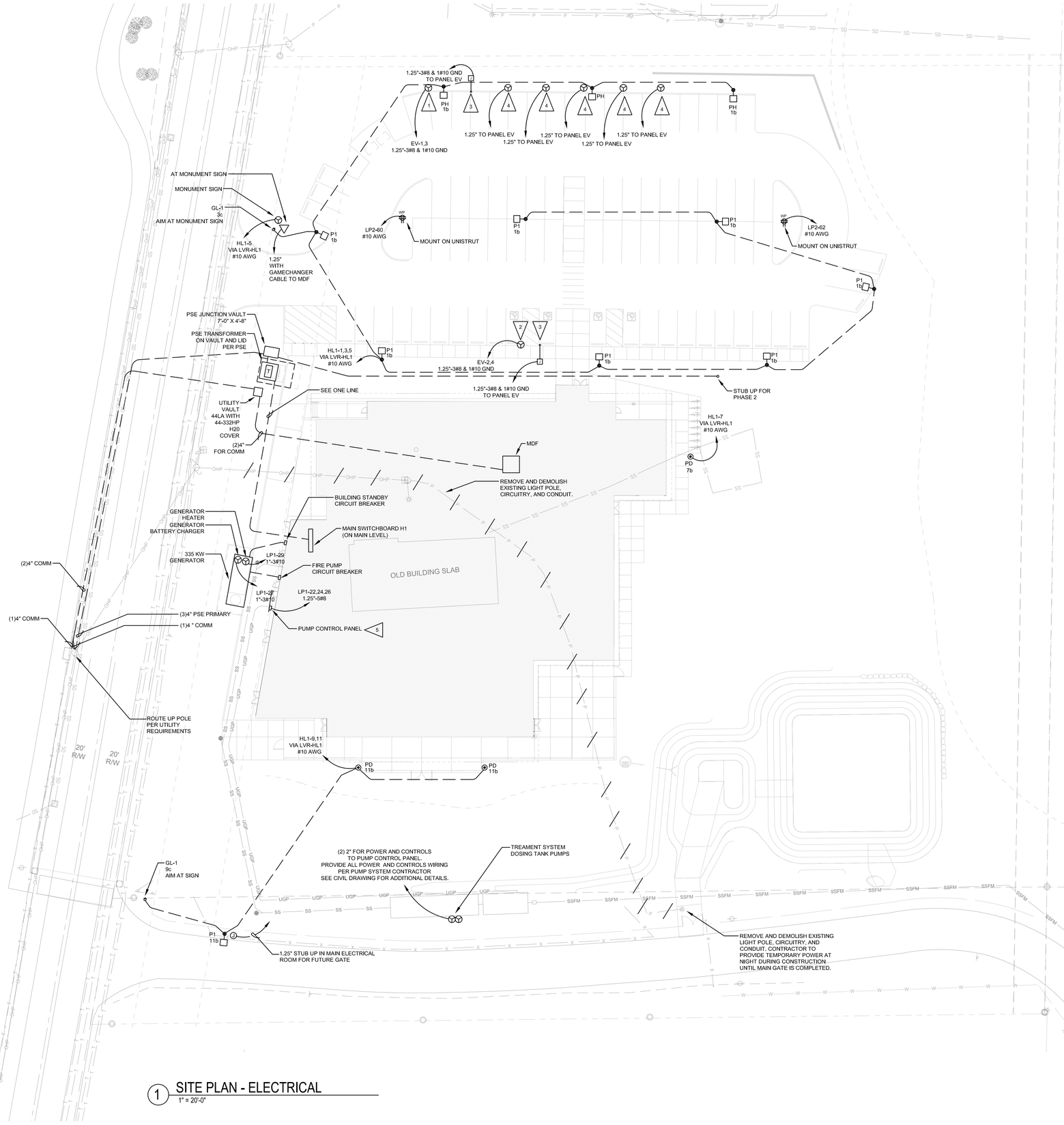

1 SITE PLAN - ELECTRICAL
1" = 20'-0"

SHEET NOTES:

1. TRENCH AND BACKFILL PUGET SOUNDS ENERGY (PSE) INFRASTRUCTURE PER UTILITY REQUIREMENTS. PROVIDE VAULT, LIDS, AND PROTECTIVE BOLLARS PER PSE CONSTRUCTION DOCUMENTS. COORDINATE WORK WITH GENERAL CONTRACTOR

FLAG NOTES:

1. LEVEL 2 DUAL-PORT EV CHARGING STATION. PROVIDE EV CHARGING STATION. BLINK 7 SERIES
2. LEVEL 2 ONE-PORT EV CHARGING STATION. PROVIDE EV CHARGING STATION. BLINK 6 SERIES
3. EV-READY LEVEL 2 CHARGING STATION. PROVIDE BREAKER AT PANEL, CONDUIT, WIRING, AND HANDHOLE.
4. EV-CAPABLE LEVEL 2 DUAL-PORT CHARGING STATION. PROVIDE BREAKER AT PANEL, CONDUIT, STUB AND CAP CONDUIT AT LOCATION.
5. PROVIDE ALL CONNECTIONS TO PUMP SYSTEM. SYSTEM DETAILS PER PUMP CONTRACTOR, COORDINATE ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.

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CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE

Rev #	Date	Description
1	06/19/2025	Building Permit Responses

CONTENTS:

SITE PLAN - ELECTRICAL

SCALE: AS SHOWN
DRAWN: AS, EL
CHECKED: AB
PROJECT NO: 2022021.000

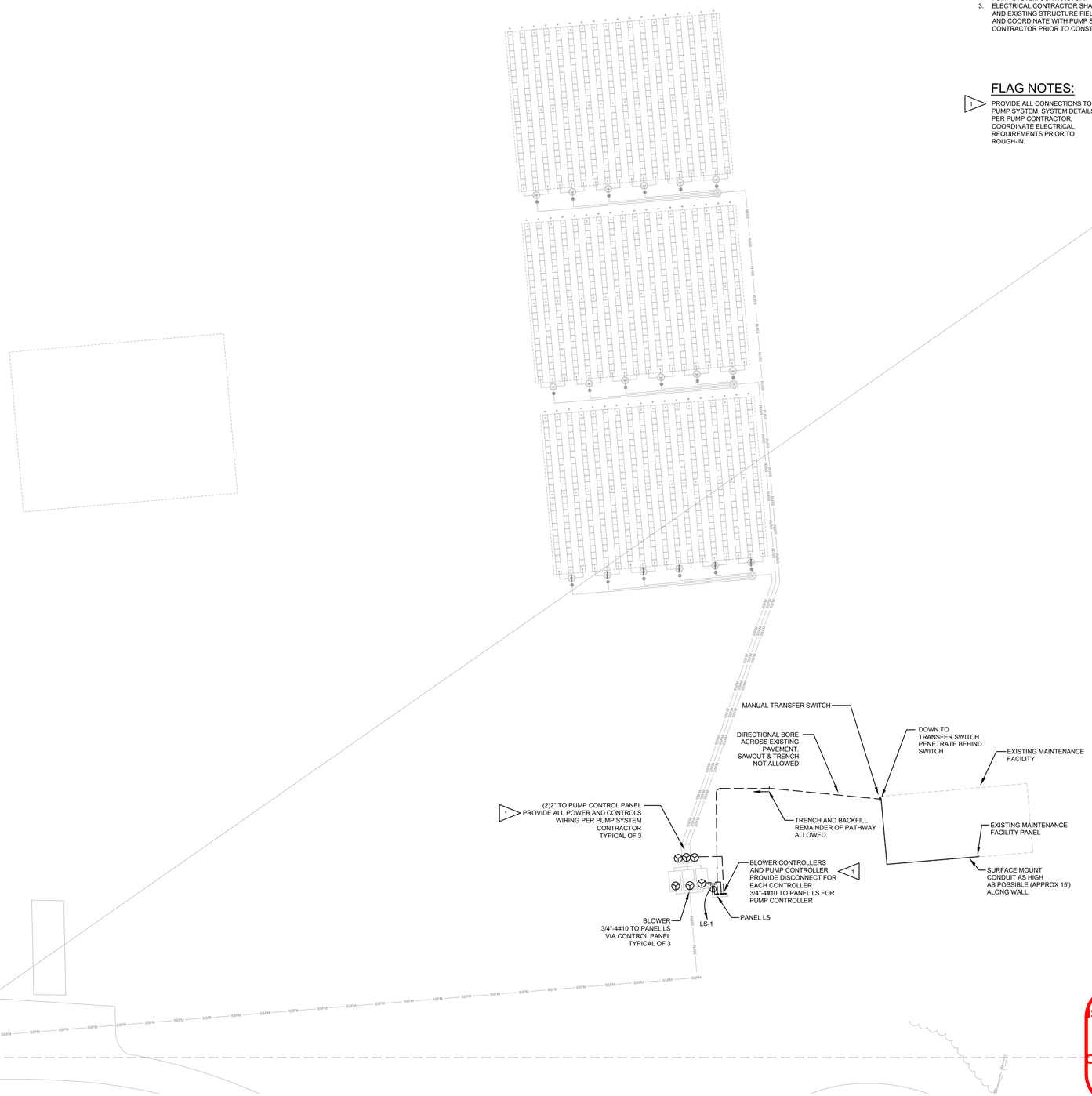
SHEET:
E1.1

SHEET NOTES:

1. IN ADDITION TO WORK SHOW ON ELECTRICAL PLANS, ELECTRICAL CONTRACTOR SHALL PROVIDE ALL UNDERGROUND POWER AND COMM CONDUIT AS SHOWN ON CIVIL DRAWINGS. COORDINATE CONDUIT LOCATIONS TERMINATIONS WITHIN STRUCTURES WITH PUMP SYSTEM CONTRACTOR. SEE CIVIL DRAWINGS FOR ADDITIONAL DETAILS AND SCOPE.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL COMMUNICATION CONDUIT WITHIN STRUCTURES FOR SYSTEM CONTROLS. COORDINATE ALL CONDUIT REQUIRED WITH PUMP SYSTEM CONTRACTOR.
3. ELECTRICAL CONTRACTOR SHALL VERIFY SITE AND EXISTING STRUCTURE FIELD CONDITIONS AND COORDINATE WITH PUMP SYSTEM CONTRACTOR PRIOR TO CONSTRUCTION.

FLAG NOTES:

1. PROVIDE ALL CONNECTIONS TO PUMP SYSTEM. SYSTEM DETAILS PER PUMP CONTRACTOR; COORDINATE ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.



1 SITE PLAN - ELECTRICAL
1" = 30'-0"

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SITE PLAN - ELECTRICAL

SCALE:	AS SHOWN
DRAWN:	AS, EL
CHECKED:	AB
PROJECT NO:	2022021.000

SHEET:

E1.2

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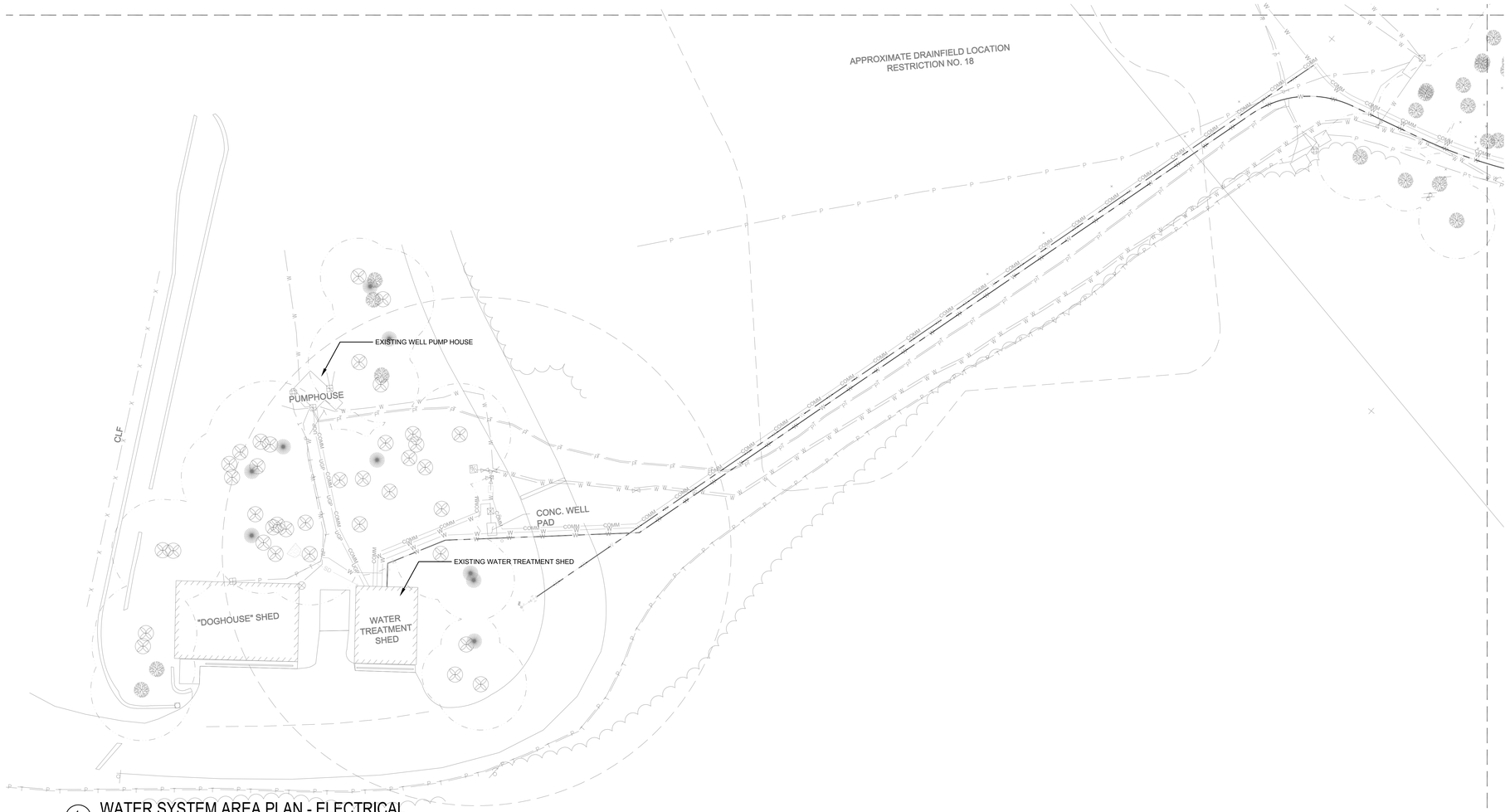
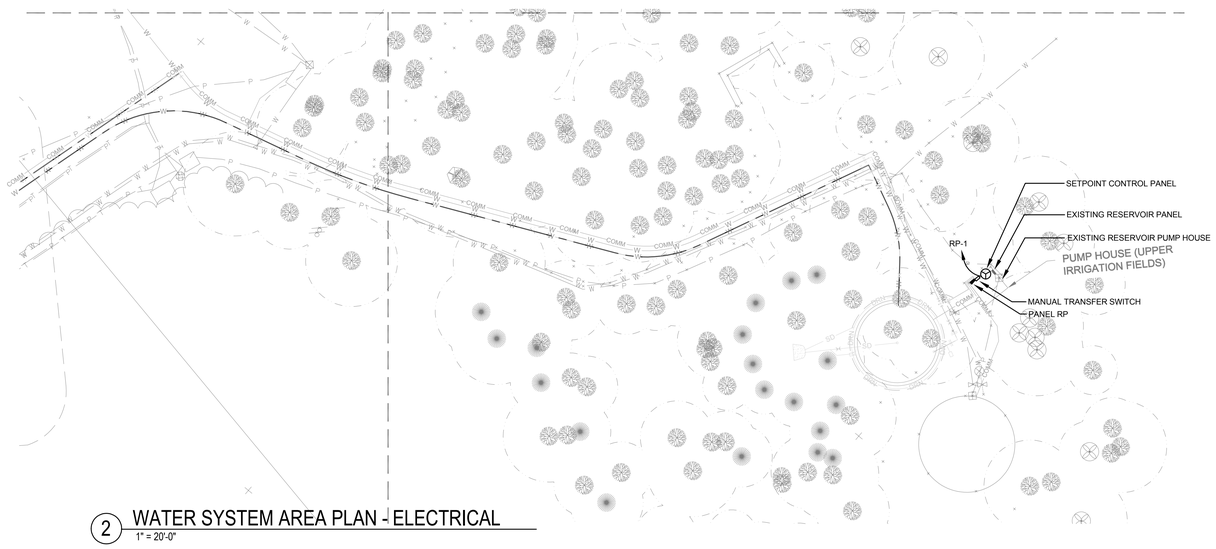


1 WATER SYSTEM AREA PLAN - ELECTRICAL
1" = 20'-0"



2 WATER SYSTEM AREA PLAN - ELECTRICAL
1" = 20'-0"

SHEET NOTES:

1. IN ADDITION TO WORK SHOW ON ELECTRICAL PLANS, ELECTRICAL CONTRACTOR SHALL PROVIDE ALL UNDERGROUND POWER AND COMM CONDUIT AS SHOWN ON CIVIL DRAWINGS. COORDINATE CONDUIT LOCATIONS TERMINATIONS WITHIN STRUCTURES WITH PUMP SYSTEM CONTRACTOR. SEE CIVIL DRAWINGS FOR ADDITIONAL DETAILS AND SCOPE.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL COMMUNICATION CONDUIT WITHIN STRUCTURES FOR SYSTEM CONTROLS. COORDINATE ALL CONDUIT REQUIRED WITH PUMP SYSTEM CONTRACTOR.
3. ELECTRICAL CONTRACTOR SHALL VERIFY SITE AND EXISTING STRUCTURE FIELD CONDITIONS AND COORDINATE WITH PUMP SYSTEM CONTRACTOR PRIOR TO CONSTRUCTION.
4. REFER TO CIVIL ARCHITECTURAL FOR EXISTING MAINTENANCE BUILDING DETAILS.

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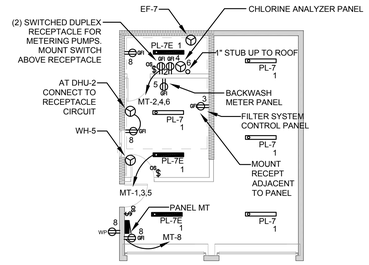
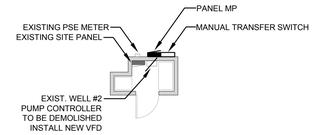


3 EXIST. WATER TREATMENT SHED
1/8" = 1'-0"



4 EXIST. WELL PUMP HOUSE
1/8" = 1'-0"

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CONTRACT DOCUMENTS

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SITE PLAN - ELECTRICAL

SCALE:	AS SHOWN
DRAWN:	AS, EL
CHECKED:	AB
PROJECT NO:	2022021.000

SHEET:

E1.3

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SITE

TYPE	LAMP	LUMEN OUTPUT	CCT	VOLTAGE	MINIMUM CRI	CONTROL	MANUFACTURER	DESCRIPTION	LOCATION
CL-1		780 LUMENS	3000K	24 V	80 CRI	0-10V DIM	BRUCK: SKYLINE EXT-SKY-D-SW-10LM-30K-80-40D-24V-BK-XX-SKY-GLOBE	CATENARY PENDANT WITH 40 DEGREE BEAM SPREAD AND OPAL GLOBE DIFFUSER. PROVIDE POWER SUPPLY AND ALL MOUNTING AND ACCESSORIES FOR A FULLY FUNCTIONAL SYSTEM.	HALLWAYS, MAIN LOBBY, EXTERIOR CANOPY
P1	LED 75 W	8,000 LUMENS	3000K	120 V	80 CRI	MOTION SENSOR	KIM: ALTITUDE DIFFUSE LENS GARDCO: PUREFORM COMFORT P26-196L-1675-WW-G2-AR-3-LLC-IMRI3	ARM-MOUNTED LED POLE FIXTURE WITH MOTION RESPONSE OCCUPANCY SENSOR, TYPE 3 OPTIC, AND FULL CUTOFF PERFORMANCE. PROVIDE HIGHLY DIFFUSE, UNIFORMLY ILLUMINATED LENS. UL WET LABEL AND LOW TEMP DRIVER. MOUNT ON 20' FOOT TALL , 4" ROUND, 0.188" ALUMINUM POLE WITH HANDHOLE TO UTILITY VAULT 24R-8-LB POLE BASE. PROVIDE BASE COVER. IN PARKING AND ROAD EXPOSE 2' OF BASE. IN LANDSCAPE AREAS FLUSH WITH GRADE. MOTION SENSOR TO REDUCE TO 30% WHEN NO MOTION. PROVIDE INTEGRAL WIRELESS MODULE. BUG RATING B3-U0-G3.	PARKING
PH								SAME AS P1 BUT WITH EHS (HOUSE SIDE SHIELD)	PARKING
PD	LED 51 W	4,700 LUMENS	3000K	120 V	80 CRI	MOTION SENSOR	GARDCO: PUREFORM POST TOP PPT-196L-1150-WW-G2-T3-2-120-LLC-IMRI3	POLE MOUNTED FIXTURE WITH 13,200 LUMENS AND MOTION RESPONSE OCCUPANCY SENSOR. TYPE 2 OPTIC. PROVIDE HEAVY DIFFUSE, UNIFORMLY ILLUMINATED LENS. UL WET LABEL AND LOW TEMP DRIVER. MOUNT ON 6" ROUND, 12' FOOT TALL ALUMINUM POLE WITH HANDHOLE TO UTILITY VAULT 18R-5-LB POLE BASE. PROVIDE BASE COVER. IN PARKING AND ROAD EXPOSE 2' OF BASE. IN LANDSCAPE AREAS FLUSH WITH GRADE. MOTION SENSOR TO REDUCE TO 30% WHEN NO MOTION. PROVIDE INTEGRAL WIRELESS MODULE. BUG RATING B3-U0-G3.	PATHWAY
WL-1	LED 38 W	4,500 LUMENS	3000K	120 V	80 CRI	0-10V DIM	GOTHAM: EVO 4" WALL CYLINDER EVO4WC-30/45-AR-LSS-ASYM-120-GZ10-JBX-DNWL PORTFOLIO LER4B	4" WALL MOUNT CYLIDER WITH SEMI-SPECULAR REFLECTOR AND ASSYMETRIC DISTRIBUTION. UL LISTED FOR WET LOCATONS. PROVIDE INTEGRAL EMERGENCY BATTERY PACK.	EXTERIOR WALL

1 SITE PLAN - LIGHT CALC
1" = 20'-0"

SHEET NOTES:

1. SITE PLAN - LIGHT CALC PROVIDED FOR REFERENCE ONLY. SEE E1.1,E1.2,E1.3 FOR ELECTRICAL SCOPE

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South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

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Rev #	Date	Description

CONTENTS:

SITE PLAN - LIGHTING CALC

SCALE:	AS SHOWN
DRAWN:	AS, EL
CHECKED:	AB
PROJECT NO:	2022021.000

SHEET:
E1.4

© ARCHOUR ARCHITECTURE PLANNING DESIGN 2025

D:\ARCHOUR\South Whidbey Parks&Rec Center 2022021.0 1 - Site Light Calc.dwg
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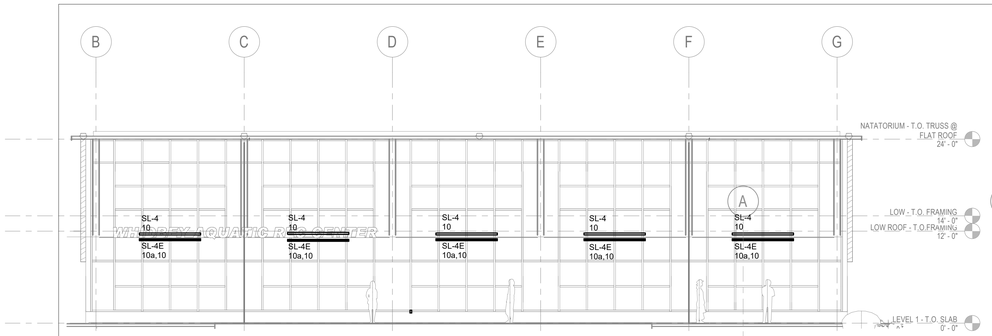
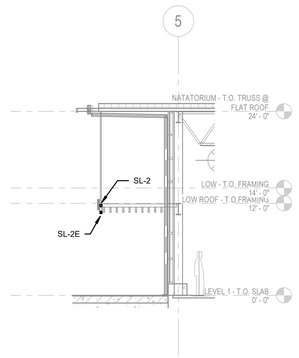
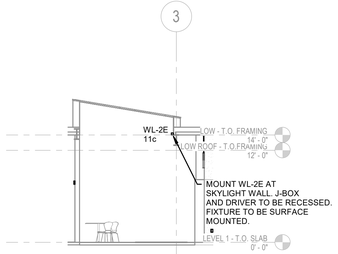


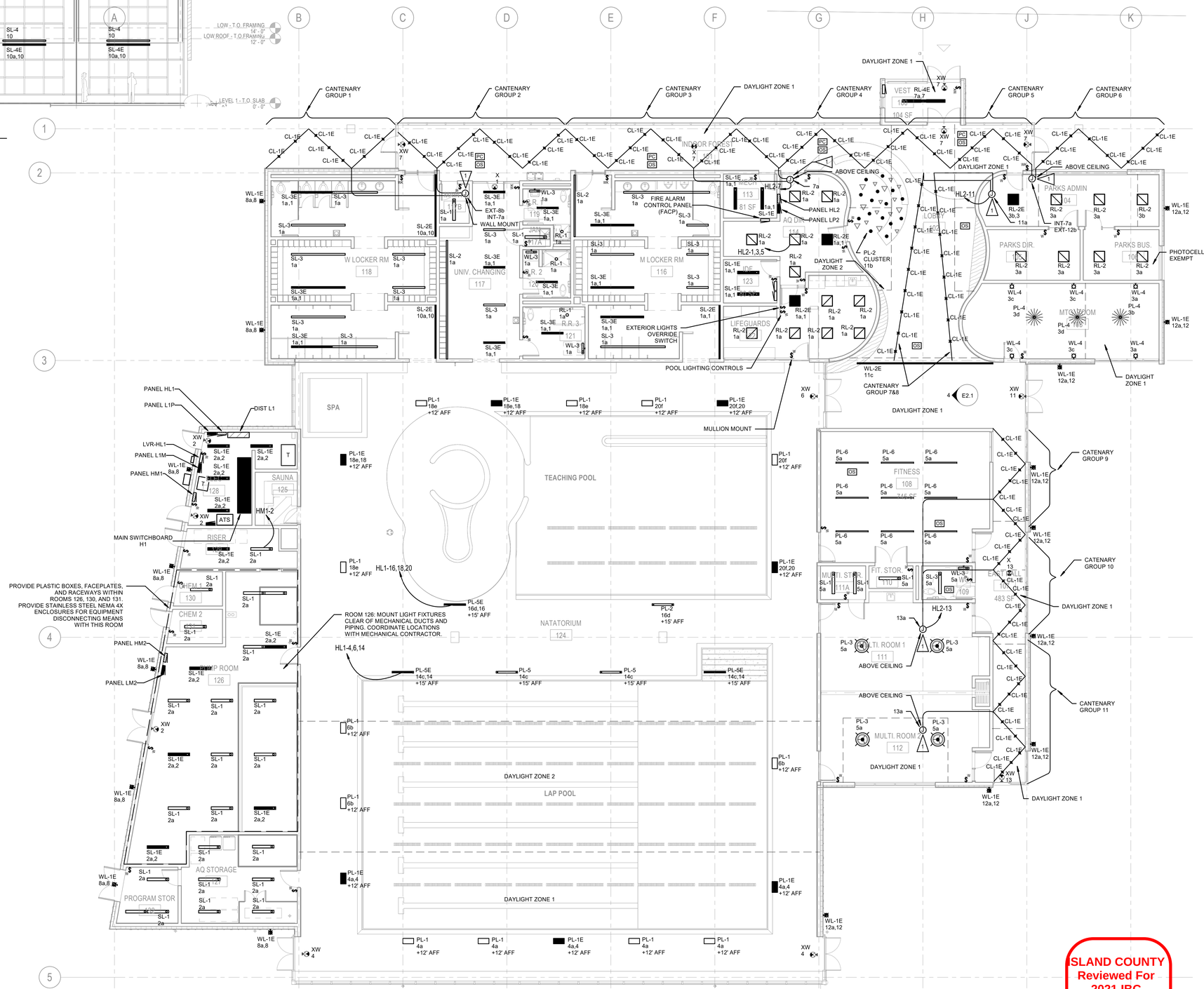
2 Exterior Canopy Lighting Detail
1/8" = 1'-0"



3 Exterior Canopy Lighting Side Detail
1/8" = 1'-0"



4 Interior WL-2 Mounting Elevation
1/8" = 1'-0"



1 LEVEL 1 - LIGHTING - BASE BID
1/8" = 1'-0"

FLAG NOTES:

1. PROVIDE (2) REMOVE DRIVERS AND (2) INVERTERS FOR CL-1E LIGHTING. MOUNT CONCEALED ABOVE ACCESSIBLE CEILING OR RECESSED WALL MOUNTED AS SHOWN. INVERTER SHALL BE ONLINE POWER P/N: NANO WAVE 200W-REI WITH DIMMING ROUTED VIA INVERTER. PROVIDE REMOTE TEST SWITCH AND COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.

GENERAL NOTES:

1. NO EXPOSED CONDUIT IN EXPOSED STRUCTURE CEILING ALLOWED. ROUTING REQUIRED THROUGH EXPOSED STRUCTURE CEILINGS & ROUTING FOR CEILING MOUNTED DEVICES IN AREAS WITH EXPOSED STRUCTURE SHALL BE INSTALLED ABOVE THE ROOF DECK, BELOW AND WITHIN THE INSULATION. COORDINATE WITH ROOF INSULATION INSTALLER. CONDUITS ROUTED IN RIGID INSULATION LAYER SHALL BE RIGID GALVANIZED STEEL AS REQUIRED BY NEC. REFER TO ARCHITECTURAL FOR CEILING AND ROOF DETAILS.

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Scott Whidbey PARKS & RECREATION DISTRICT

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1	06/19/2025	Building Permit Responses

CONTENTS:

1st FLOOR PLAN - LIGHTING

SCALE: 1/8" = 1'-0"
DRAWN: AS
CHECKED: AB
PROJECT NO: 2022021.000

SHEET: E2.1

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2021 IBC
Code Compliance
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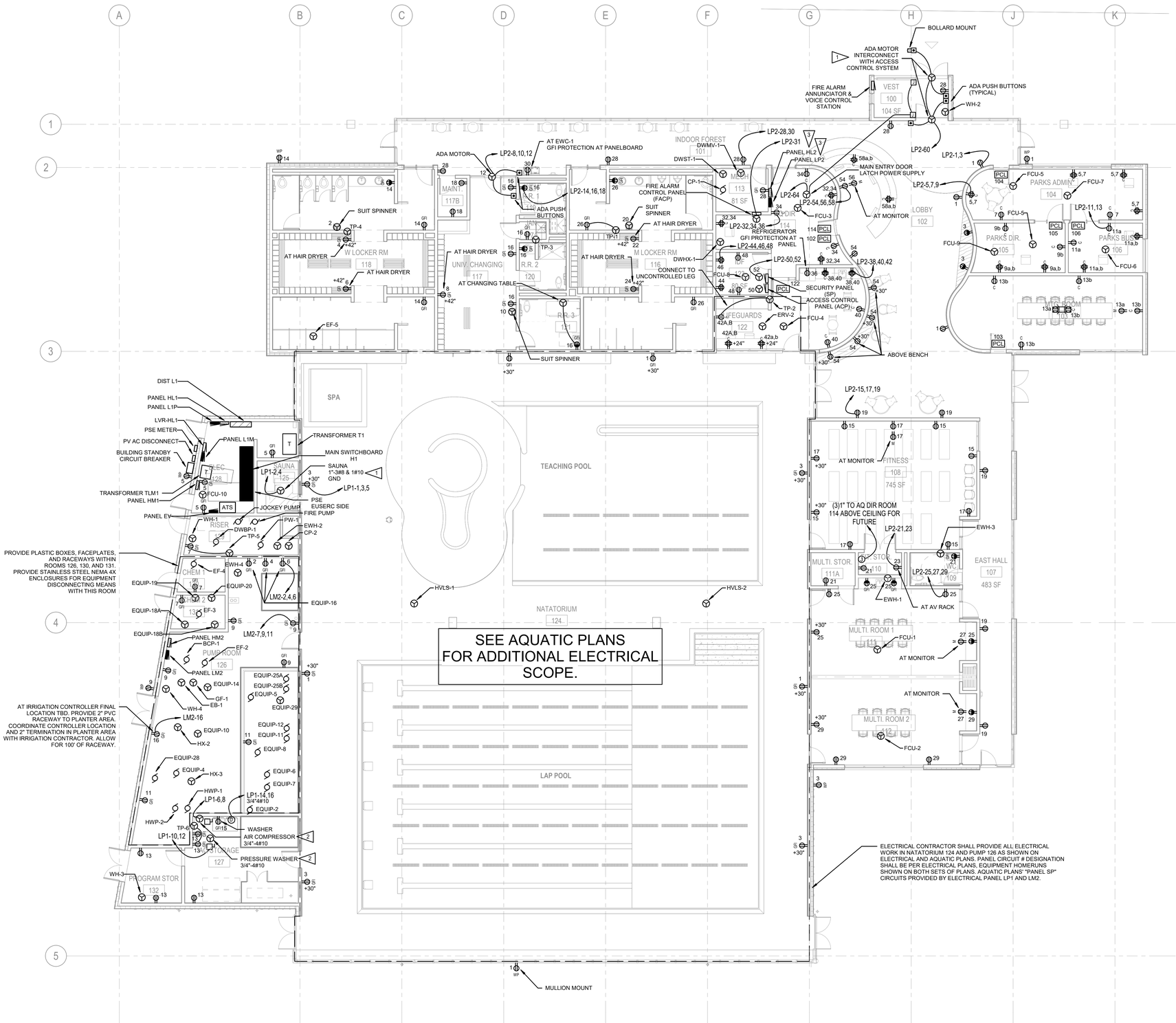

1 LEVEL 1 - POWER - BASE BID
1/8" = 1'-0"

FLAG NOTES:

1. PROVIDE ALL POWER, LIGHTING, AND CONTROLS CONNECTIONS PER DESIGN-BUILD CONTRACTOR REQUIREMENTS, COORDINATE WITH DESIGN-BUILD CONTRACTOR.
2. CONFIRM POWER REQUIREMENTS PRIOR TO ROUGH-IN.
3. PROVIDE (3)1.25" FROM PANEL UP TO ACCESSIBLE CEILING FOR FUTURE.

GENERAL NOTES:

1. NO EXPOSED CONDUIT IN EXPOSED STRUCTURE CEILING ALLOWED. ROUTING REQUIRED THROUGH EXPOSED STRUCTURE CEILINGS AS WELL ROUTING FOR CEILING MOUNTED DEVICES IN AREAS EXPOSED STRUCTURE SHALL BE INSTALLED ABOVE THE ROOF DECK, BELOW AND WITHIN THE INSULATION. COORDINATE WITH ROOF INSULATION INSTALLER. CONDUITS ROUTED IN RIGID INSULATION LAYER SHALL BE RIGID GALVANIZED STEEL AS REQUIRED BY NEC. REFER TO ARCHITECTURAL FOR CEILING AND ROOF DETAILS.
2. SEE SHEET E8.0 FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE, MECHANICAL EQUIPMENT DISCONNECTING MEANS, AND DEDUCTIVE ALTERNATE #1 & #2 SCOPE OF WORK.

SHEET NOTES:

1. REFER TO AQUATICS DRAWINGS SP.4 FOR ELECTRICAL SCOPE DETAILS AND LOCATIONS OF EQUIPMENT. ALL ELECTRICAL SCOPE SHALL BE PER PROVIDED BY ELECTRICAL CONTRACTOR, AND SHALL COORDINATE WITH POOL CONTRACTOR PRIOR TO CONSTRUCTION.
2. ELECTRICAL CONTRACTOR AND POOL CONTRACTOR SHALL BE REQUIRED TO HOLD A PRE-CONSTRUCTION COORDINATION MEETING WITH ELECTRICAL ENGINEER AND POOL DESIGNER PRESENT TO CONFIRM SCOPE.
3. GROUND EXPOSED IMBEDDED STEEL FITTINGS. GROUND POOL REINFORCING STEEL. CONNECT ALL GROUNDS AND EXTEND #1/0 COPPER TO MAIN BUILDING GROUND IN 2" PVC CONDUIT. ALL GROUNDINGS SHALL COMPLY WITH NEC 680. REFER TO AQUATICS DRAWINGS.
4. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF NEC 680.

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South Whidbey Parks & Recreation District

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

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CONTENTS:
1st FLOOR PLAN - POWER

SCALE: 1/8" = 1'-0"
DRAWN: Author
CHECKED: Checker
PROJECT NO: 2022021.000

SHEET:
E3.1

ISLAND COUNTY
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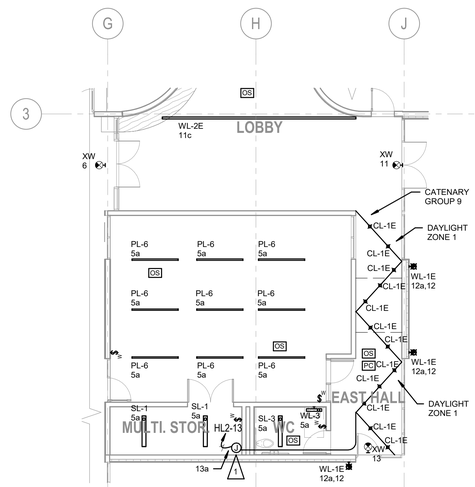
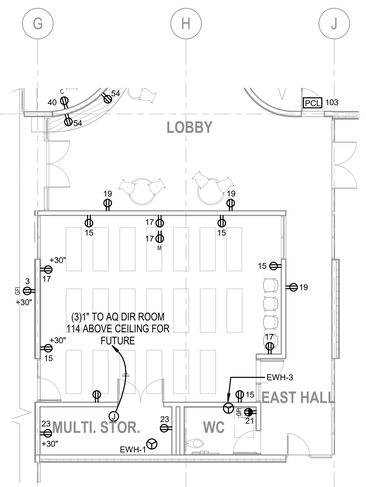
07/18/2025
Brian Boyle

GENERAL NOTES:

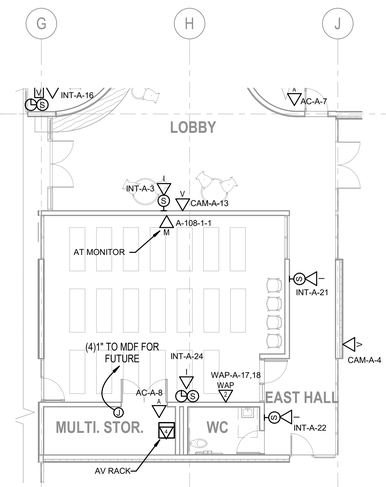
1. NO EXPOSED CONDUIT IN EXPOSED STRUCTURE CEILING ALLOWED. ROUTING REQUIRED THROUGH EXPOSED STRUCTURE CEILINGS AS WELL ROUTING FOR CEILING MOUNTED DEVICES IN AREAS EXPOSED STRUCTURE SHALL BE INSTALLED ABOVE THE ROOF DECK, BELOW AND WITHIN THE INSULATION. COORDINATE WITH ROOF INSULATION INSTALLER. CONDUITS ROUTED IN RIGID INSULATION LAYER SHALL BE RIGID GALVANIZED STEEL AS REQUIRED BY NEC. REFER TO ARCHITECTURAL FOR CEILING AND ROOF DETAILS.
2. SEE SHEET E8.0 FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE, MECHANICAL EQUIPMENT DISCONNECTING MEANS, AND DEDUCTIVE ALTERNATE #1 & #2 SCOPE OF WORK.
3. HOMERUN ALL ACCESS CONTROL AND SECURITY DEVICES TO ACCESS CONTROL PANEL (ACP) AND SECURITY PANEL (SP).



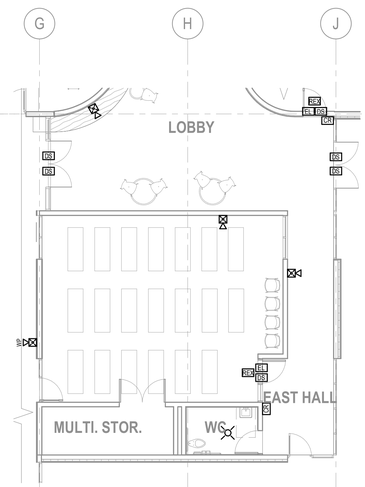
1 LEVEL 1 - LIGHTING - ALTERNATE 1
1/8" = 1'-0"



2 LEVEL 1 - POWER - ALTERNATE 1
1/8" = 1'-0"



3 LEVEL 1 - COMM - ALTERNATE 1
1/8" = 1'-0"



4 LEVEL 1 - ESS - ALTERNATE 1
1/8" = 1'-0"

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KEVIN E. WARTELLE — STATE OF WASHINGTON — 21108 — REGISTERED PROFESSIONAL ENGINEER

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South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

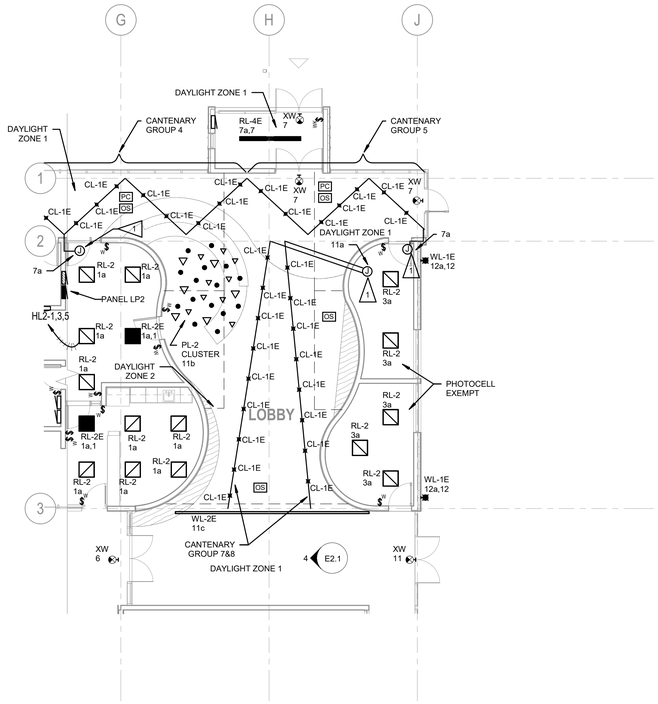
REVISION SCHEDULE		
Rev #	Date	Description

ISLAND COUNTY
Reviewed For
2021 IBC
Code Compliance
07/18/2025
Brian Boyle

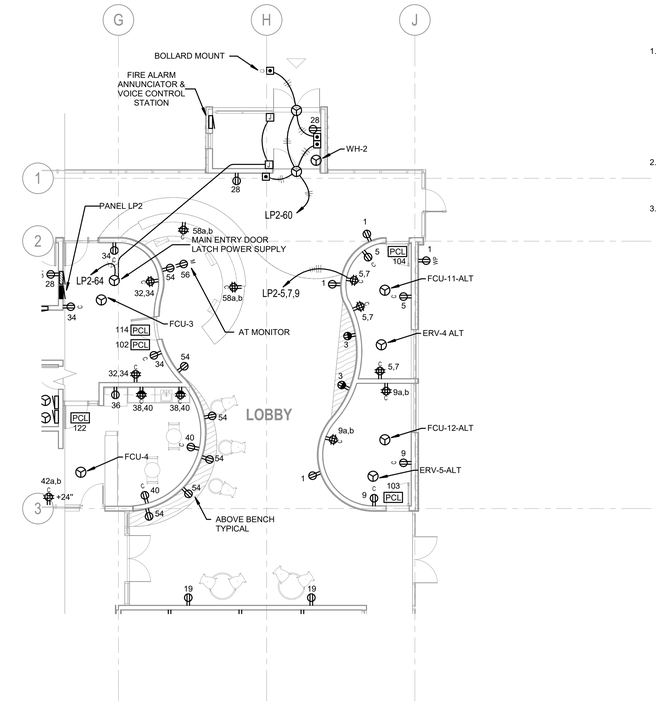
CONTENTS:
FLOOR PLANS - DEDUCTIVE ALTERNATE 1 - ELEC

SCALE: 1/8" = 1'-0"
DRAWN: Author
CHECKED: Checker
PROJECT NO: 2022021.000

SHEET:
E3.10



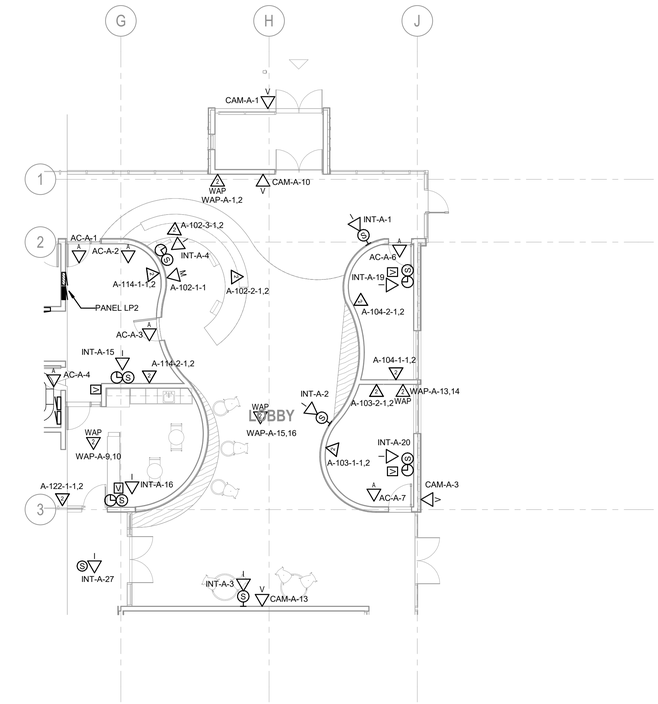
1 LEVEL 1 - LIGHTING - ALTERNATE 2
1/8" = 1'-0"



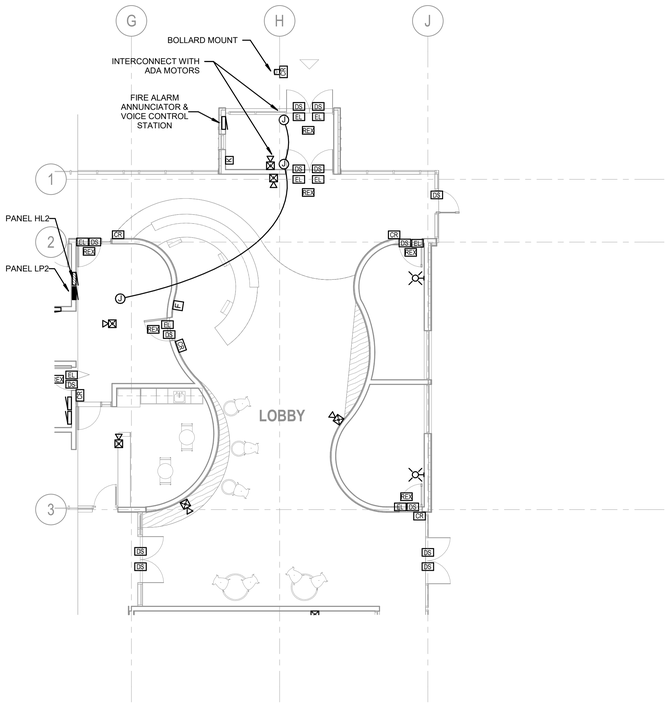
2 LEVEL 1 - POWER - ALTERNATE 2
1/8" = 1'-0"

GENERAL NOTES:

1. NO EXPOSED CONDUIT IN EXPOSED STRUCTURE CEILING ALLOWED. ROUTING REQUIRED THROUGH EXPOSED STRUCTURE CEILINGS AS WELL ROUTING FOR CEILING MOUNTED DEVICES IN AREAS EXPOSED STRUCTURE SHALL BE INSTALLED ABOVE THE ROOF DECK, BELOW AND WITHIN THE INSULATION. COORDINATE WITH ROOF INSULATION INSTALLER. CONDUITS ROUTED IN RIGID INSULATION LAYER SHALL BE RIGID GALVANIZED STEEL AS REQUIRED BY NEC. REFER TO ARCHITECTURAL FOR CEILING AND ROOF DETAILS.
2. SEE SHEET E8.0 FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE, MECHANICAL EQUIPMENT DISCONNECTING MEANS, AND DEDUCTIVE ALTERNATE #1 & #2 SCOPE OF WORK.
3. HOMERUN ALL ACCESS CONTROL AND SECURITY DEVICES TO ACCESS CONTROL PANEL (ACP) AND SECURITY PANEL (SP).



3 LEVEL 1 - COMM - ALTERNATE 2
1/8" = 1'-0"



4 LEVEL 1 - ESS - ALTERNATE 2
1/8" = 1'-0"

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Rev #	Date	Description

CONTENTS:

FLOOR PLANS - DEDUCTIVE ALTERNATE 2 - ELEC

SCALE:	1/8" = 1'-0"
DRAWN:	Author
CHECKED:	Checker
PROJECT NO:	2022021.000

SHEET:

E3.11

ISLAND COUNTY
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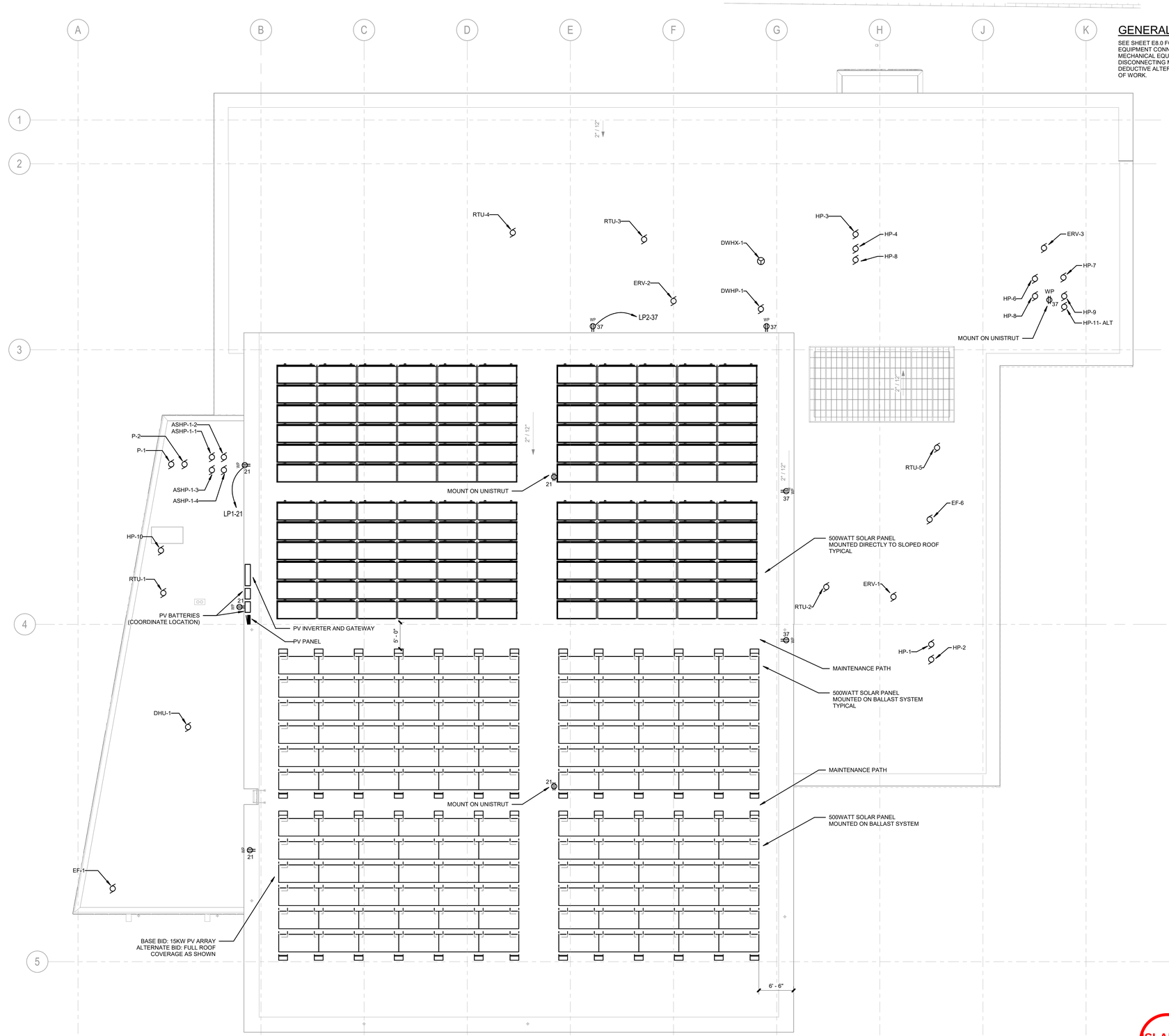
GENERAL NOTES:

SEE SHEET E8.0 FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULE, MECHANICAL EQUIPMENT DISCONNECTING MEANS, AND DEDUCTIVE ALTERNATE #1 & #2 SCOPE OF WORK.



1 ROOF PLAN - POWER - BASE BID
1/8" = 1'-0"

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CONTENTS:
ROOF PLAN - POWER

SCALE: 1/8" = 1'-0"
DRAWN: Author
CHECKED: Checker
PROJECT NO: 2022021.000

SHEET:
E3.2

ISLAND COUNTY
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07/18/2025
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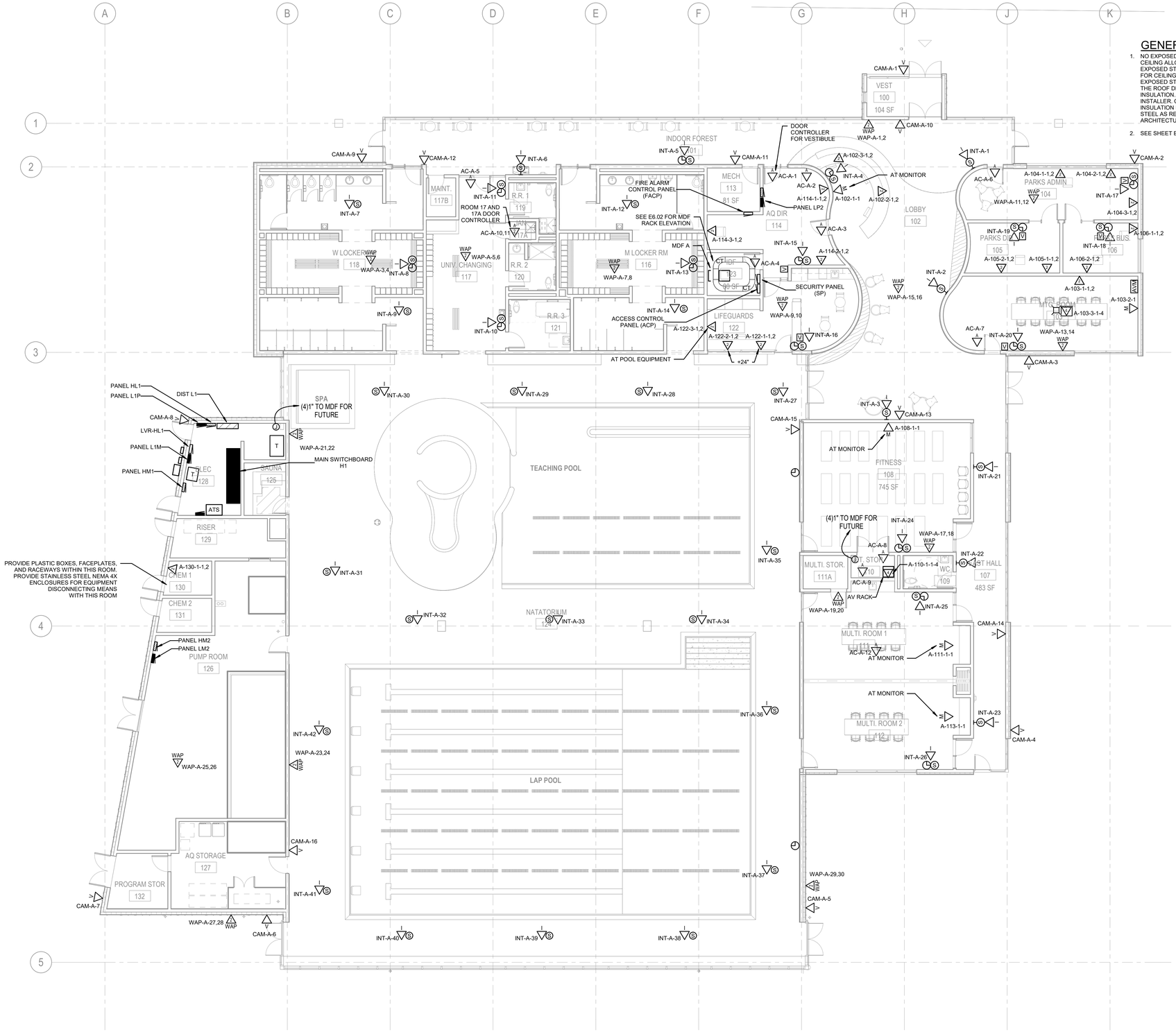
GENERAL NOTES:

1. NO EXPOSED CONDUIT IN EXPOSED STRUCTURE CEILING ALLOWED. ROUTING REQUIRED THROUGH EXPOSED STRUCTURE CEILINGS AS WELL. ROUTING FOR CEILING MOUNTED DEVICES IN AREAS EXPOSED STRUCTURE SHALL BE INSTALLED ABOVE THE ROOF DECK, BELOW AND WITHIN THE INSULATION. COORDINATE WITH ROOF INSULATION INSTALLER. CONDUITS ROUTED IN RIGID INSULATION LAYER SHALL BE RIGID GALVANIZED STEEL AS REQUIRED BY NEC. REFER TO ARCHITECTURAL FOR CEILING AND ROOF DETAILS.
2. SEE SHEET E6.1 FOR MDF RACK DETAIL



1 LEVEL 1 - COMM - BASE BID
1/8" = 1'-0"

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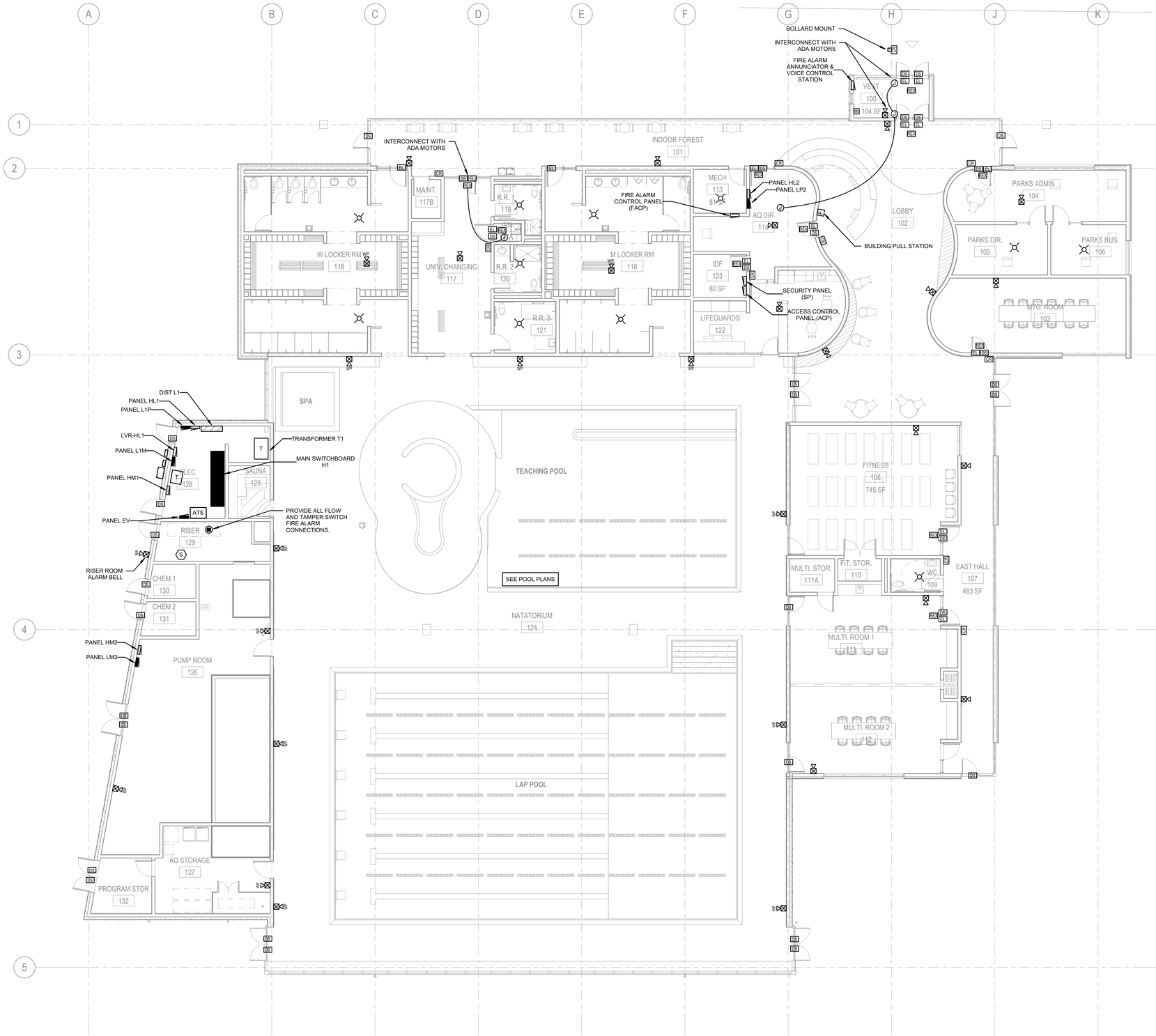
CONTENTS:
1st FLOOR PLAN - COMM

SCALE: 1/8" = 1'-0"
DRAWN: Author
CHECKED: Checker
PROJECT NO: 2022021.000

SHEET:
E4.1



1 LEVEL 1 - ESS - BASE BID
1/8" = 1'-0"

GENERAL NOTES:

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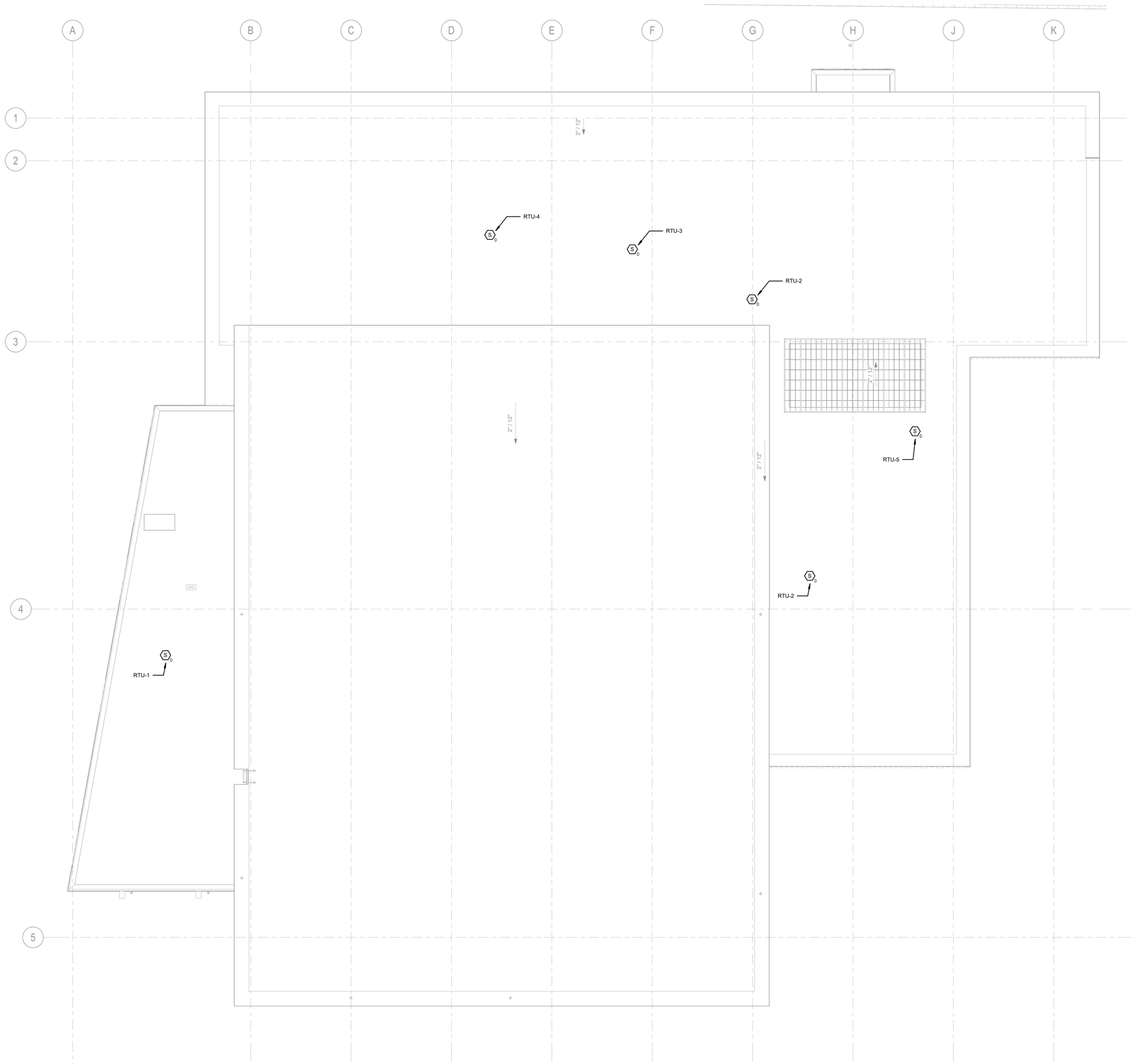
CONTENTS:
1st FLOOR PLAN - ESS

SCALE: 1/8" = 1'-0"
DRAWN: Author
CHECKED: Checker
PROJECT NO: 2022021.000

SHEET:
E5.1



1 ROOF PLAN - ESS - BASE BID
1/8" = 1'-0"

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CONTENTS:
ROOF PLAN - ESS

SCALE: 1/8" = 1'-0"
DRAWN: Author
CHECKED: Checker
PROJECT NO: 2022021.000

SHEET:
E5.2

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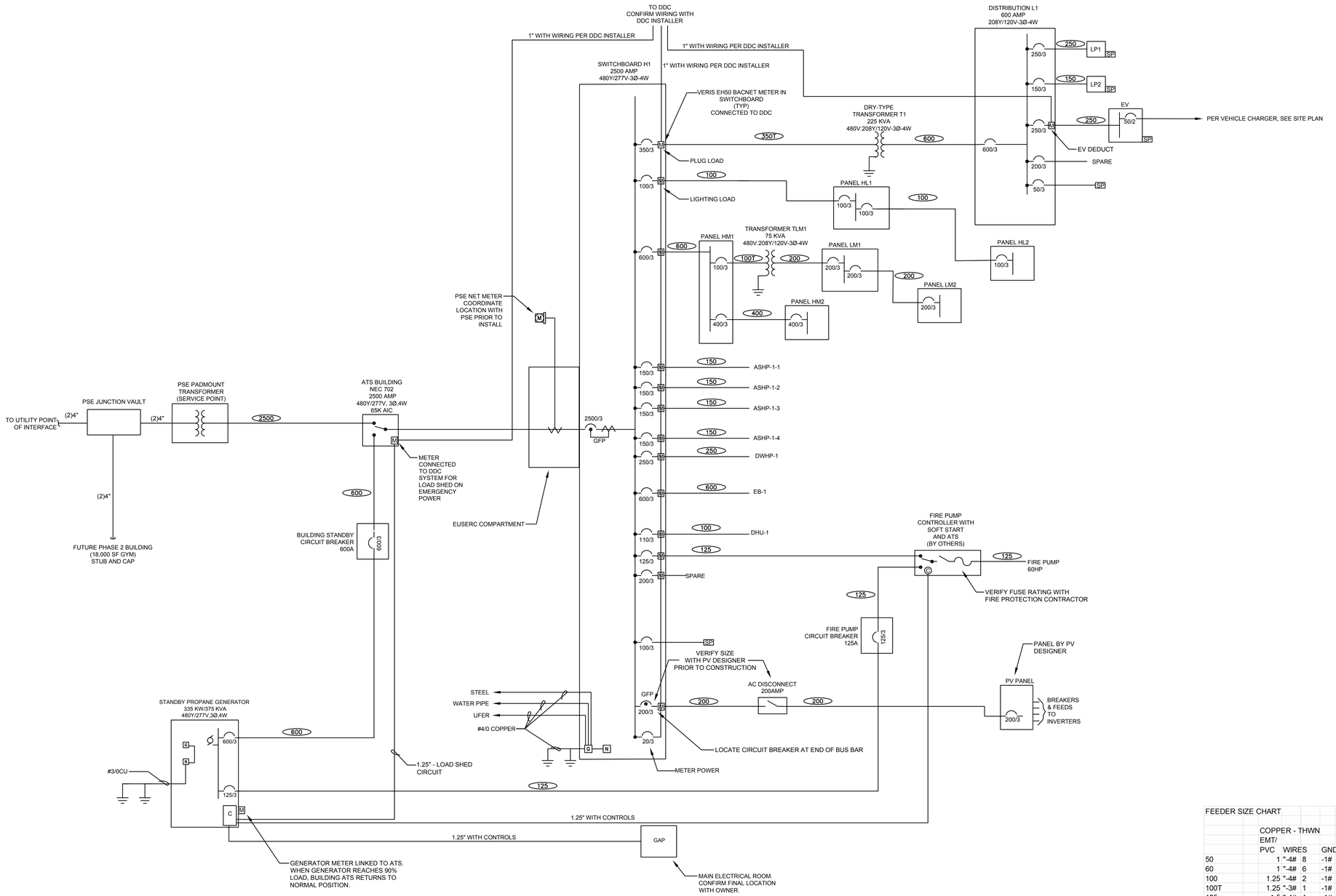

1 ONE LINE DIAGRAM
NTS

SHEET NOTES:

1. CONTRACTOR SHALL SUBMIT APPROVED SWITCHBOARD TO PUGET SOUND ENERGY (PSE) FOR FINAL APPROVAL PRIOR TO ORDERING.
2. COORDINATE ELECTRICAL REQUIREMENTS FOR FIRE PROTECTION FIRE PUMP AND JOCKEY PUMP WITH DESIGN-BUILD CONTRACTOR PRIOR TO CONSTRUCTION.
3. GENERATOR SHALL PROVIDE ALARM SIGNAL TO DDC/BAS SYSTEM PROVIDING GENERATOR RUN STATUS. WHEN GENERATOR IS RUNNING, DDC/BAS SHALL ONLY ALLOW MECHANCIAL AND PLUMBING SYSTEMS NOTED ON MECHANICAL AND PLUMBING CONSTRUCTION DOCUMENTS TO RUN. GENERATOR SHALL PROVIDE SIGNAL WHEN NORMAL (UTILITY) POWER IS RESTORED AND GENERATOR IS NOT RUNNING. COORDINATE CONNECTION WITH DDC/BAS CONTRACTOR

FEEDER SIZE CHART											
		COPPER - THWN						ALUMINUM - XHHW-COMPACT			
		EMT/						EMT/			
		PVC	WIRES	GND				PVC	WIRES	GND	
50		1	"-4# 8	-1# 8							
60		1	"-4# 6	-1# 8							
100		1.25	"-4# 2	-1# 6							
100T		1.25	"-3# 1	-1# 6							
125		1.5	"-4# 1	-1# 6				2	"-4# 2/0	-1# 2	
150		1.5	"-4# 1/0	-1# 4				2	"-4# 3/0	-1# 2	
200		2	"-4# 3/0	-1# 2				2.5	"-4# 250	-1# 1/0	
250		2.5	"-4# 250	-1# 2				3	"-4# 350	-1# 3/0	
300		3	"-4# 350	-1# 2				3	"-4# 500	-1# 3/0	
350T	(2)	2	"-3# 3/0	-1# 2/0			(2)	2.5	"-3# 250	-1# 4/0	
450	(2)	2.5	"-3# 4/0	-1# 2/0			(2)	3	"-4# 300	-1# 4/0	
600	(2)	3	"-4# 350	-1# 3/0			(2)	3	"-4# 500	-1# 250	
800	(2)	3.5	"-4# 600	-1# 3/0			(3)	3	"-4# 400	-1# 250	
1200	(3)	3.5	"-4# 600	-1# 3/0			(4)	3.5	"-4# 500	-1# 250	
2500	(6)	3.5	"-4# 600	-1# 350			(8)	4"	"-4# 600	-1# 600	

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South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

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CONTENTS:

BUILDING ONE LINE DIAGRAM

SCALE: AS SHOWN
DRAWN: AS, EL
CHECKED: AB
PROJECT NO: 2022021.000

SHEET:
E6.0

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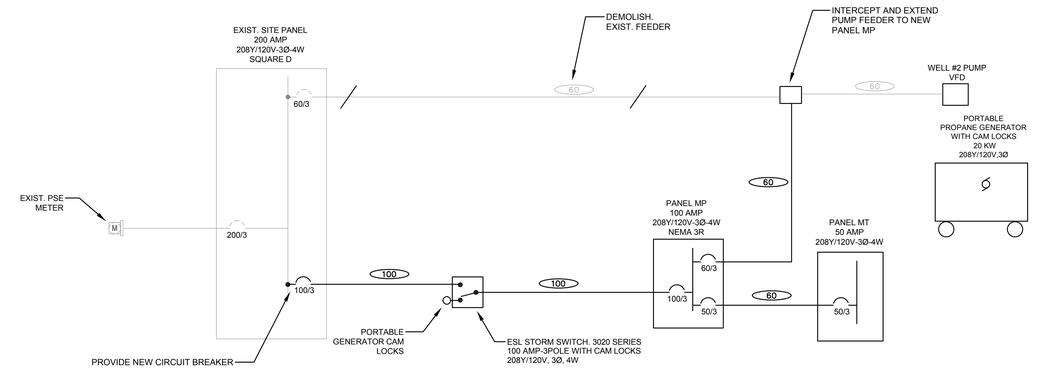
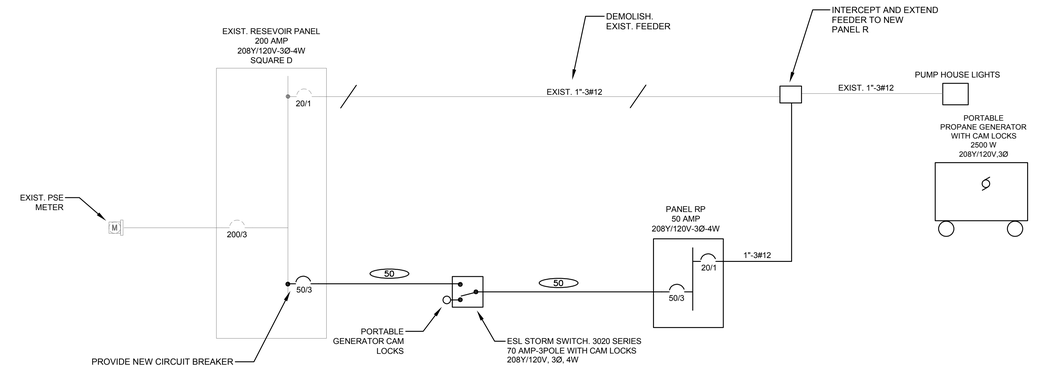
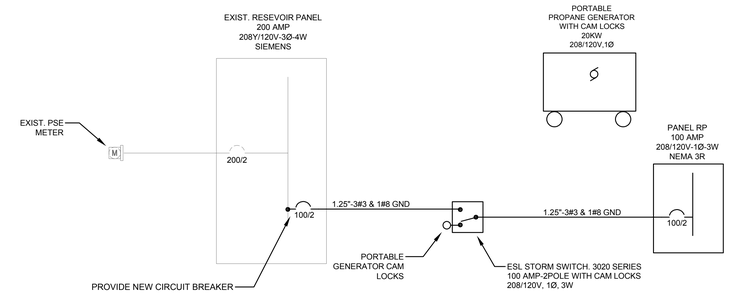


3 TREAMENT SYSTEM ONE LINE DIAGRAM
NTS



2 RESEVOIR SYSTEM ONE LINE DIAGRAM
NTS



1 LOSS SYSTEM ONE LINE DIAGRAM
NTS

SHEET NOTES:

1. ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND ELECTRICAL EQUIPMENT.
2. GENERATORS SHOWN SHALL BE PROVIDED BY CONTRACTOR. COORDINATE WITH OWNER FINAL STORAGE/PLACEMENT OF PORTABLE GENERATORS. NOTED GENERATOR KW RATING IS RUNNING RATING. BASIS OF DESIGN PORTABLE GENERATORS - GENERAC OR KOHLER

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FEEDER SIZE CHART

	COPPER - THWN EMT/ PVC	WIRES	GND	ALUMINUM - XHHW-COMPACT EMT/ PVC	WIRES	GND
50	1	"-4# 8	-1# 8			
60	1	"-4# 6	-1# 8			
100	1.25	"-4# 2	-1# 6			
100T	1.25	"-3# 1	-1# 6			
125	1.5	"-4# 1	-1# 6	2	"-4# 2/0	-1# 2
150	1.5	"-4# 1/0	-1# 4	2	"-4# 3/0	-1# 2
200	2	"-4# 3/0	-1# 2	2.5	"-4# 250	-1# 1/0
250	2.5	"-4# 250	-1# 2	3	"-4# 350	-1# 3/0
300	3	"-4# 350	-1# 2	3	"-4# 500	-1# 3/0
350T	(2) 2	"-3# 3/0	-1# 2/0	(2) 2.5	"-3# 250	-1# 4/0
450	(2) 2.5	"-3# 4/0	-1# 2/0	(2) 3	"-4# 300	-1# 4/0
600	(2) 3	"-4# 350	-1# 3/0	(2) 3	"-4# 500	-1# 250
800	(2) 3.5	"-4# 600	-1# 3/0	(3) 3	"-4# 400	-1# 250
1200	(3) 3.5	"-4# 600	-1# 3/0	(4) 3.5	"-4# 500	-1# 250
2500	(6) 3.5	"-4# 600	-1# 350	(8) 4"	"-4# 600	-1# 600

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SITE ONE LINE DIAGRAMS

SCALE: AS SHOWN
DRAWN: AS, EL
CHECKED: AB
PROJECT NO: 2022021.000

SHEET:

E6.1

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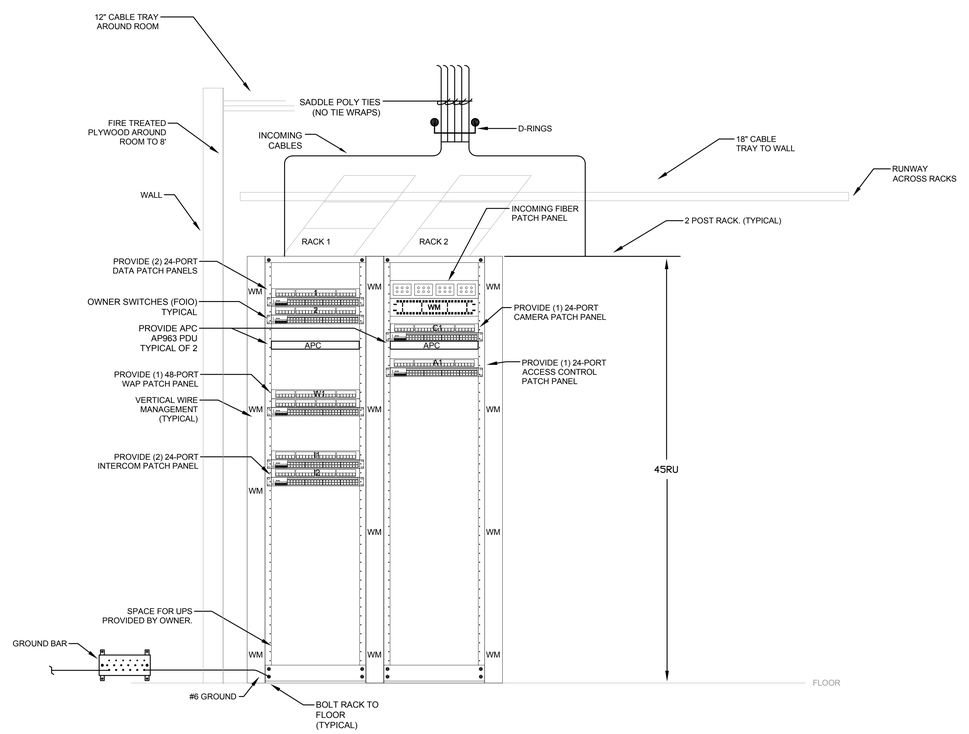

1 MDF A RACK DETAIL
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MDF RACK DETAILS

SCALE: AS SHOWN
DRAWN: AS, EL
CHECKED: AB
PROJECT NO: 2022021.000

SHEET:

E6.2

D:\A2A\South Whidbey Aquatic Center 21\E\R23.0.E6.1.rvt
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LIGHTING FIXTURE SCHEDULE: SOUTH WHIDBEY AQUATIC CENTER

TYPE	LAMP	LUMEN OUTPUT	CCT	VOLTAGE	MINIMUM CRI	CONTROL	MANUFACTURER	DESCRIPTION	LOCATION
CL-1	LED 10 W EA	780 LUMENS	3000K	24 V	80 CRI	0-10V DIM	BRUCK: SKYLINE EXT-SKY-D-SW-10LM-30K-80-40D-24V-BK-XX-SKY-GLOBE	CUSTOM LAYOUT CATENARY PENDANT WITH 40 DEGREE BEAM SPREAD AND OPAL GLOBE DIFFUSER. PROVIDE POWER SUPPLY AND ALL MOUNTING AND ACCESSORIES FOR A FULLY FUNCTIONAL SYSTEM. PROVIDE PHOTO CELL AND OCCUPANCY FOR LIGHTING CONTROL SYSTEM TO CONTROL EACH GROUP PER PLANS FOR WSEC COMPLIANCE. PROVIDE MANUFACTURER SHOP DRAWINGS.	HALLWAYS, MAIN LOBBY, EXTERIOR CANOPY
CL-1E								SAME AS CL-1 BUT ON INVERTER CIRCUIT FOR EMERGENCY LIGHTING.	
GL-1	LED 17.25 W/FT	3,400 LUMENS	3000K	277 V	80 CRI	DMX	LUMENPULSE: LUMENFACADE LOI RO-120/277-48-30K-10X30-TS5-NO-ASL	GROUND-RECESSED LINEAR LED FIXTURE WITH ASSYMETRIC GRAZE 10X30 DEGREE OPTICS. EXTRUDED ALUMINUM HOUSING, IP67, IK-7 RATING. WALK OVER COMPLIANT. PROVIDE ANTI SLIP LENS.	EXTERIOR SIGN
P1	LED 75 W	8,000 LUMENS	3000K	277 V	80 CRI	MOTION SENSOR	GARDCO: PUREFORM COMFORT P26-196L-1675-WW-G2-AR-3-LLC-IMRI3 KIM: ALTITUDE DIFFUSE LENS	ARM-MOUNTED LED POLE FIXTURE WITH MOTION RESPONSE OCCUPANCY SENSOR, TYPE 3 OPTIC, AND FULL CUTOFF PERFORMANCE. PROVIDE HIGHLY DIFFUSE, UNIFORMLY ILLUMINATED LENS. UL WET LABEL AND LOW TEMP DRIVER. MOUNT ON 20' FOOT TALL , 4" ROUND, 0.188" ALUMINUM POLE WITH HANDHOLE TO UTILITY VAULT 24R-8-LB POLE BASE. PROVIDE BASE COVER. IN PARKING AND ROAD EXPOSE 2' OF BASE. IN LANDSCAPE AREAS FLUSH WITH GRADE. MOTION SENSOR TO REDUCE TO 30% WHEN NO MOTION. PROVIDE INTEGRAL WIRELESS MODULE. BUG RATING B3-U0-G3.	PARKING
PH								SAME AS P1 BUT WITH EHS (HOUSE SIDE SHIELD)	PARKING
PD	LED 51 W	4,700 LUMENS	3000K	277 V	80 CRI	MOTION SENSOR	GARDCO: PUREFORM POST TOP PPT-196L-1150-WW-G2-T3-2-120-LLC-IMRI3	POLE MOUNTED FIXTURE WITH 13,200 LUMENS AND MOTION RESPONSE OCCUPANCY SENSOR. TYPE 2 OPTIC. PROVIDE HEAVY DIFFUSE, UNIFORMLY ILLUMINATED LENS. UL WET LABEL AND LOW TEMP DRIVER. MOUNT ON 6" ROUND, 12' FOOT TALL ALUMINUM POLE WITH HANDHOLE TO UTILITY VAULT 18R-5-LB POLE BASE. PROVIDE BASE COVER. IN PARKING AND ROAD EXPOSE 2' OF BASE. IN LANDSCAPE AREAS FLUSH WITH GRADE. MOTION SENSOR TO REDUCE TO 30% WHEN NO MOTION. PROVIDE INTEGRAL WIRELESS MODULE. BUG RATING B3-U0-G3.	PATHWAY
PL-1	LED 435 W	CUSTOM LUMENS	4000K	277 V	80 CRI	0-10V DIM WIRELESS	LUX DYNAMICS: WAVE+ WAVEP-2-840-U10-WSP2-DEF2-CFO - CORD-MH2S-WIRELESS-NAT	HIGH BAY LED LUMINAIRE WITH INDIRECT OPTICS AND DEFLECTOR SHIELD FOR MAXIMUM GLARE CONTROL. EXTRUDED ALUMINUM CONSTRUCTION WITH IK10 POLYCARBONATE LENS. NATATORIUM RATED. 120 DEGREE BEAM ANGLE. PROVIDE GRC STEM MOUNT, 6" FROM FABRIC DUCT. BOTTOM OF FIXTURE HEIGHT SHOWN ON DRAWINGS. PROVIDE INTEGRAL NETWORKED WIRELESS MODULE. LED BARS SHALL BE AIMED PER MANUFACTUER RECOMMENDATIONS FOR OPTIMAL DISTRIBUTION AND AVOID FABRIC DUCT ILLUMINATION AS MUCH AS POSSIBLE. COORDINATE CORD WITH LIGHTING CONTROLS MANUFACTURER. PROVIDE MANUFACTURER SHOP DRAWINGS.	POOL
PL-1E								SAME AS PL-1 BUT WITH INTEGRAL EMERGENCY BATTERY PACK (20 WATT). REMOTE BATTERY PACK NOT ALLOWED.	
PL-2	LED 7 W	493 LUMENS	3000K	277 V	80 CRI	0-10V DIM WIRELESS	ZANIBONI: TIBI PENDANT P0-TI-124-07-30-A-6-N-XX-ZV00-D	1" LED SLIM CYLINDER LED PENDANT WITH DROPPED DIFFUSER. CONFIGURE ALL FIXTURE TYPES SHOWN ON DRAWINGS TO BE MOUNTED IN A SINGLE CANOPY WITH ONE POWER CONNECTION. PROVIDE NETWORKED WIRELESS MODULE. INDIVIDUAL FIXTURE HEIGHT PER ARCHITECTURAL.	RECEPTION
PL-3	LED 23 W + 55 W	3,037 LUMENS DOWN 7,805 LUMENS UP	3000K	277 V	80 CRI	0-10V DIM WIRELESS	LUMINIS: HOLLOWCORE HC2800-L4L30-UL4L78-120-XXX-MS-NLTAIR2-SPG	30" DIAMETER DECORATIVE LED DRUM WITH DIRECT/INDIRECT OPTICS. PROVIDE INTEGRAL MOTION SENSOR. PROVIDE NETWORKED WIRELESS MODULE.	MULTI ROOM
PL-4	LED 14 W	1,150	3000K	277 V	90 CRI	0-10V DIM WIRELESS	BRUCK: DELFINA ACOUSTIC WEP-DEL-100-LLED-30K-90-XXX-XXX-ACT	86" DECORATIVE ACOUSTIC LED PENDANT. PROVIDE NETWORKED WIRELESS MODULE.	MEETING ROOM
PL-5	LED 863 W	CUSTOM LUMENS	4000K	277 V	80 CRI	0-10V DIM WIRELESS	LUX DYNAMICS: WAVE+ WAVEP-4-840-U10-WSP4-DEF4-CFO-CORD-MH2S-WIRELESS-NAT	HIGH BAY LED LUMINAIRE WITH INDIRECT OPTICS AND DEFLECTOR SHIELD FOR MAXIMUM GLARE CONTROL. EXTRUDED ALUMINUM CONSTRUCTION WITH IK10 POLYCARBONATE LENS. NATATORIUM RATED. 120 DEGREE BEAM ANGLE. PROVIDE GRC STEM MOUNT. BOTTOM OF FIXTURE HEIGHT SHOWN ON DRAWINGS. PROVIDE INTEGRAL NETWORKED WIRELESS MODULE. LED BARS SHALL BE AIMED PER MANUFACTUER RECOMMENDATIONS FOR OPTIMAL DISTRIBUTION. COORDINATE CORD WITH LIGHTING CONTROLS MANUFACTURER. PROVIDE MANUFACTURER SHOP DRAWINGS.	POOL
PL-5E								SAME AS PL-5 BUT WITH INTEGRAL EMERGENCY BATTERY PACK (20 WATT). REMOTE BATTERY PACK NOT ALLOWED.	
PL-6	LED 6 W/FT	1000 LUMENS/FT	3000K	277 V	80 CRI	0-10V DIM WIRELESS	AXIS: BEAM 2 B2SQDLED-1000-90-3000-NW-XXX-DMLED-FINISH-277-DP-1-CONTROLS	2" APERTURE PENDANT MOUNT LINEAR LED SLOT FIXTURE WITH EXTRUDED ALUMINUM HOUSING AND FROSTED LENS. DIRECT OPTICS. PROVIDE INTEGRAL DRIVER. SEE PLANS FOR CONTINUOUS RUN LENGTHS. PROVIDE INTEGRAL OCCUPANCY/DAYLIGHT SENSOR WITH NETWORKED WIRELESS CONTROLS. MOUNT LENS FLUSH WITH BOTTOM OF ACOUSTIC BAFFLES. SEE ARCHITECTURAL FOR ACOUSTIC BAFFLE MOUNTING HEIGHTS	FITNESS
PL-7								SAME AS SL-1 EXCEPT PENDANT MOUNTED	MAINTENANCE BLDG
PL-7E								SAME AS PL-7 EXCEPT WITH INTEGRAL BATTERY PACK.	MAINTENANCE BLDG
RL-1	LED 18.6 W	1,500 LUMENS	3000K	277 V	90 CRI	0-10V DIM WIRELESS	PRESCOLITE: LITESTRY 4" SHOWER DOWNLIGHT LTR-4RD-SL-15L-DM1-(WIRELESS)-LTR-4RD-T-SH-SL-30K-9-XX-GML	RECESSED 4" NON CONDUCTIVE LED DOWNLIGHT WITH TEMPERED GLASS LENS. UL WET LABEL. PROVIDE INTEGRAL NETWORKED WIRELESS MODULE.	SHOWERS

LIGHTING FIXTURE SCHEDULE: SOUTH WHIDBEY AQUATIC CENTER

TYPE	LAMP	LUMEN OUTPUT	CCT	VOLTAGE	MINIMUM CRI	CONTROL	MANUFACTURER	DESCRIPTION	LOCATION
RL-2	LED 27 W	3500 LUMENS	3000K	277 V	90 CRI	0-10V DIM WIRELESS	METALUX: 22CGTX-3SHE-K8XX-DGLS-90CRI	2 X2 LIGHT PANEL WITH FLAT ACRYLIC LENS WITH INTEGRAL WIRELESS DUAL TECHNOLOGY MOTION SENSOR AND PHOTOCELL	OFFICE
RL-2E								SAME AS RL-2E EXCEPT WITH INTEGRAL BATTERY PACK.	
RL-3								NOT USED	
RL-4	8.25 W/FT	625 LUMENS/FT	3000K	277 V	90 CRI	0-10V DIM WIRELESS	FOCAL POINT: SEEM 2 LED FSM2L-FL-625-30K-1C-UNV-XX	2.5" APERTURE RECESSED LINEAR LED SLOT FIXTURE WITH EXTRUDED ALUMINUM HOUSING AND EXTRUDED ACRYLIC FROSTED LENS. SEE PLANS FOR CONTINUOUS RUN LENGTHS. PROVIDE INTEGRAL NETWORKED WIRELESS MODULE.	VESTIBULE
SL-1	LED 29 W	4,500 LUMENS	3000K	277 V	90 CRI	0-10V DIM WIRELESS	COLUMBIA MPS-4-30-LWHE-C-W-ED-U-(WIRELESS)-CM245CF3-KIT LITHONIA METALUX DAYBRITE	SURFACE MOUNTED LENSED LED STRIPLIGHT. INTEGRAL OCCUPANCY/DAYLIGHT SENSOR WITH NETWORKED WIRELESS MODULE.	BACK OF HOUSE
SL-2	LED 9.7 W/FT	972 LUMENS/FT	3000K	277 V	80 CRI	0-10V DIM	ALIGHT: ACCOLADE SURFACE ALD3ST-XX-LH-30-U-KS-R--XX-D-OF-K	4" APERTURE DIRECT WALL MOUNT LINEAR LED SLOT FIXTURE WITH EXTRUDED ALUMINUM HOUSING AND EXTRUDED ACRYLIC FROSTED LENS. PROVIDE ASYMMETRIC ROOM FILL DISTRIBUTION. RATED FOR NATATORIUM LOCATIONS. SEE PLANS FOR CONTINUOUS RUN LENGTHS.	LOCKERS
SL-2E								SAME AS SL-2 BUT WITH INTEGRAL EMERGENCY BATTERY PACK.	
SL-3	LED 9.7 W/FT	1114 LUMENS/FT	3000K	277 V	80 CRI	0-10V DIM	ALIGHT: ACCOLADE SURFACE ALD3ST-XX-LH-30-U-HE-F--XX-D-OF-K	4" APERTURE SURFACE MOUNT LINEAR LED SLOT FIXTURE WITH EXTRUDED ALUMINUM HOUSING AND EXTRUDED ACRYLIC FROSTED LENS. RATED FOR NATATORIUM LOCATIONS. SEE PLANS FOR CONTINUOUS RUN LENGTHS.	LOCKERS
SL-3E								SAME AS SL-3 BUT WITH INTEGRAL EMERGENCY BATTERY PACK. REMOTE BATTERY PACK NOT ALLOWED	
SL-4	LED 22 W (8-FT)	3,000 LUMENS	3000K	277 V	80 CRI	0-10V DIM	FOCAL POINT SEEM 4 WET LOCATION FSM4-LWLS-AF-375-30K-1C-UNV-LD1-SM-XX-8'	4" APERTURE, 8-FT LENGTH SURFACE MOUNT LINEAR LED SLOT FIXTURE WITH EXTRUDED ALUMINUM HOUSING AND EXTRUDED ACRYLIC FROSTED LENS. PROVIDE ASYMMETRIC ROOM FILL DISTRIBUTION. RATED FOR WET LOCATIONS.	EXTERIOR AWNING
SL-4E								SAME AS SL-4 BUT WITH INTEGRAL EMERGENCY BATTERY PACK. REMOTE BATTERY PACK NOT ALLOWED.	
WL-1	LED 38 W	4,500 LUMENS	3000K	277 V	80 CRI	0-10V DIM	GOTHAM: EVO 4" WALL CYLINDER EVO4WC-30/45-AR-LSS-ASYM-120-GZ10-JBX-DNWL PORTFOLIO LER4B	4" WALL MOUNT CYLIDER WITH SEMI-SPECULAR REFLECTOR AND ASSYMETRIC DISTRIBUTION. UL LISTED FOR WET LOCATONS. PROVIDE INTEGRAL EMERGENCY BATTERY PACK.	EXTERIOR WALL
WL-2	LED 6.5 W/FT	625 LUMENS/FT	3000K	277 V	90 CRI	0-10V DIM WIRELESS	FOCAL POINT: SEEM 2 LED ASSYMETRIC FSM2ALS-FFL-625LF-30K-1C-UNV-LD1-(WIRELESS)-C48-XX	2.5" APERTURE WALL MOUNT LINEAR LED SLOT FIXTURE WITH EXTRUDED ALUMINUM HOUSING AND FROSTED LENS. PROVIDE DIRECT-ONLY ASSYMETRIC OPTICS. AIM AT WALL. PROVIDE INTEGRAL DRIVER. SEE PLANS FOR CONTINUOUS RUN LENGTHS. PROVIDE INTEGRAL OCCUPANCY/DAYLIGHT SENSOR WITH NETWORKED WIRELESS MODULE.	MAIN LOBBY ART WALL
WL-3	LED 17 W	3,700 LUMENS	3000K	277 V	90 CRI	0-10V DIM WIRELESS	VISA LIGHTING: SEQUENCE CB5203-L30K-H-MVOLT BLACKJACK: LINO TECH LIGHTING: FINN	2-FT WALL MOUNT VANITY LED FIXTURE. MOUNT HORIZONTAL OVER MIRROR. PROVIDE INTEGRAL DRIVER WITH NETWORKED WIRELESS MODULE.	RESTROOMS
WL-4	LED 38 W	4,500 LUMENS	3000K	277 V	80 CRI	0-10V DIM WIRELESS	GOTHAM: EVO 4" WALL CYLINDER EVO4WC-30/45-AR-LSS-ASYM-120-GZ10-JBX-DNWL PORTFOLIO LER4B	4" WALL MOUNT CYLIDER WITH SEMI-SPECULAR REFLECTOR AND ASSYMETRIC DISTRIBUTION. UL LISTED FOR WET LOCATONS. PROVIDE INTEGRAL EMERGENCY BATTERY PACK.	MEETING ROOM
X	LED 2.1 W			277 V			DUAL LITE: SE-G-I MCPHILBEN: ER55L CHLORIDE: CE-11300-55L3G SURE-LITES: CAX-7 BEGHELLI: FME LITHONIA: LE	CEILING DIE CAST LED EXIT SIGN WITH BATTERIES WITH SELF DIAGNOSTICS, BATTERY BACKUP AND ALL MOUNTING ACCESSORIES. PROVIDE ARROWS AND FACES AS SHOWN ON DRAWINGS. PROVIDE WHITE BODY WITH GREEN LETTERS AND UNIFORM LENS OVER LED.	EGRESS PATH
XW								SAME AS X EXCEPT WALL MOUNT	EGRESS PATH

WHERE (WIRELESS) IS INDICATED IN PART NUMBER, ALL WIRELESS CONTROLLERS AND ASSOCIATED COMPONENTS SHALL BE OF ONE MANUFACTURER.
ALL COLORS, FINISHES, ETC ARE BY ARCHITECT.
MOUNTING HEIGHTS PER ARCHITECTURAL ELEVATIONS.

ISLAND COUNTY
Reviewed For
2021 IBC
Code Compliance
07/18/2025
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South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE

Rev #	Date	Description
1	06/19/2025	Building Permit Responses

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LIGHTING FIXTURE SCHEDULE

SCALE: AS SHOWN
DRAWN: AS, EL
CHECKED: AB
PROJECT NO: 2022021.000

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LIGHTING CONTROL SCHEDULE: SOUTH WHIDBEY AQUATIC CENTER

CONTROLLER	ROOM	PANEL	CIRCUIT	INTERFACE	DEVICES	DESCRIPTION
100	**VESTIBULE**	HL2	7 a	WIRELESS	KEYED SWITCH, OCCUPANCY SENSOR AUTO ON 50%, PHOTOCELL	DAYLIGHT ZONE 1
KEYED SWITCH	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
101	**INDOOR FOREST**	HL2	7 a	WIRELESS	KEYED SWITCH, OCCUPANCY SENSOR AUTO ON 50%, PHOTOCELL	DAYLIGHT ZONE 1
KEYED SWITCH	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
102	**LOBBY**	HL2	11 a	WIRELESS	KEYED SWITCH, OCCUPANCY SENSOR AUTO ON 50%	GENERAL
			11 b	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR, PHOTOCELL	DAYLIGHT ZONE 1, RECEPTION DESK
			11 c	WIRELESS	KEYED SWITCH, OCCUPANCY SENSOR AUTO ON 50%, PHOTOCELL	DAYLIGHT ZONE 1, WL-2E FIXTURE
KEYED SWITCH	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a,c	ON/OFF		ON/OFF		
3-BUTTON						
	1) b	ON/OFF		ON/OFF		
	2) b	DIM UP		↑		
	3) b	DIM DOWN		↓		
103	**MTG. ROOM (DELETE IN ALT 2)**	HL2	3 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY AND PHOTOCELL SENSOR, FRONT	DAYLIGHT ZONE 1, WALL LIGHTS
			b	WIRELESS	WIRELESS SWITCH, OCCUPANCY AND PHOTOCELL SENSOR, BACK	DAYLIGHT ZONE 1, PENDANTS
			c	WIRELESS	WIRELESS SWITCH, OCCUPANCY AND PHOTOCELL SENSOR	GENERAL, WALL LIGHTS
			d	WIRELESS	WIRELESS SWITCH, OCCUPANCY AND PHOTOCELL SENSOR	GENERAL, PENDANTS
5-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a,b,c,d	ON/OFF		ALL ON/OFF		
	2) a,c	ON/OFF		WALL ON/OFF		
	3) b,d	ON/OFF		CENTER ON/OFF		
	4) a,b,c,d	DIM UP		↑		
	5) a,b,c,d	DIM DOWN		↓		
104	**PARK ADIM**	HL2	3 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY AND PHOTOCELL SENSOR	DAYLIGHT ZONE 1
			b	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
3-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a,b	ON/OFF		ON/OFF		
	2) a,b	DIM UP		↑		
	3) a,b	DIM DOWN		↓		
105	**PARKS DIR. (DELETE IN ALT 2)**	HL2	3 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
3-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
	2) a	DIM UP		↑		
	3) a	DIM DOWN		↓		
106	**PARKS BUS**	HL2	3 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
3-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
	2) a	DIM UP		↑		
	3) a	DIM DOWN		↓		
107	**EAST HALL**	HL2	13 a	WIRELESS	KEYED SWITCH, OCCUPANCY SENSOR AUTO ON 50%, PHOTOCELL	DAYLIGHT ZONE 1
KEYED SWITCH	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
108	**FITNESS**	HL2	5 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
3-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
	2) a	DIM UP		↑		
	3) a	DIM DOWN		↓		
109	**WC**	HL2	5 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
1-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
110	**FIT. STORAGE (DELETE IN ALT 1)**	HL2	5 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
1-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
111A	**MULTI. STOR.**	HL2	5 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
1-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
111	**MULTI. ROOM 1 (DELETE IN ALT 1)**	HL2	5 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
(2)3-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
	2) a	DIM UP		↑		
	3) a	DIM DOWN		↓		

LIGHTING CONTROL SCHEDULE: SOUTH WHIDBEY AQUATIC CENTER

CONTROLLER	ROOM	PANEL	CIRCUIT	INTERFACE	DEVICES	DESCRIPTION
112	**MULTI. ROOM 2 (DELETE IN ALT 1)**	HL2	5 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
(2)3-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
	2) a	DIM UP		↑		
	3) a	DIM DOWN		↓		
113	**MECH**	HL2	1 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
1-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
114	**AQ DIR**	HL2	1 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
3-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
	2) a	DIM UP		↑		
	3) a	DIM DOWN		↓		
116	**M LOCKER RM**	HL2	1 a	WIRELESS	KEYED SWITCH, OCCUPANCY SENSOR	GENERAL
KEYED SWITCH	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
117	**UNIV. CHANGING**	HL2	1 a	WIRELESS	KEYED SWITCH, OCCUPANCY SENSOR	GENERAL
KEYED SWITCH	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
117B	**MAINT.**	HL2	1 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
1-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
118	**W LOCKER RM**	HL2	1 a	WIRELESS	KEYED SWITCH, OCCUPANCY SENSOR	GENERAL
KEYED SWITCH	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
119	**P.R. 1**	HL2	1 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
1-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
120	**P.R. 2**	HL2	1 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
1-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
121	**P.R. 3**	HL2	1 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
1-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
122	**LIFEGUARDS**	HL2	1 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
3-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
	2) a	DIM UP		↑		
	3) a	DIM DOWN		↓		
123	**IDF**	HL2	1 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
1-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
124	**NATATORIUM**	HL1	4 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY AND PHOTOCELL SENSOR	DAYLIGHT ZONE 1, LAP POOL
			6 b	WIRELESS	WIRELESS SWITCH, OCCUPANCY AND PHOTOCELL SENSOR	DAYLIGHT ZONE 2, LAP POOL
			14 c	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL, LAP POOL
			16 d	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL, TEACHING POOL
			18 e	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL, TEACHING POOL
			20 f	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL, TEACHING POOL
5-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a,b,c,d,e,f	ON/OFF		ALL ON/OFF		
	2) a,b,c	ON/OFF		LAP POOL ON/OFF		
	3) d,e,f	ON/OFF		TEACH POOL ON/OFF		
	4) a,b,c,d,e,f	DIM UP		↑		
	5) a,b,c,d,e,f	DIM DOWN		↓		

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CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE

Rev #	Date	Description

CONTENTS:

LIGHTING CONTROL SCHEDULE

SCALE: AS SHOWN
DRAWN: AS, EL
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PROJECT NO: 2022021.000

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LIGHTING CONTROL SCHEDULE: SOUTH WHIDBEY AQUATIC CENTER

CONTROLLER	ROOM	PANEL	CIRCUIT	INTERFACE	DEVICES	DESCRIPTION
126	**PUMP ROOM**	HL1	2 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
1-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
127	**AQ STORAGE**	HL1	2 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
1-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
128	**ELEC**	HL1	2 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
1-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
129	**RISER**	HL1	2 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
1-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
130	**CHEM 1**	HL1	2 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
1-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
131	**CHEM 2**	HL1	2 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
1-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
132	**PROGRAM STOR**	HL1	2 a	WIRELESS	WIRELESS SWITCH, OCCUPANCY SENSOR	GENERAL
1-BUTTON SWITCH:	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		ON/OFF		
EXTERIOR LIGHTING	**RELAY PANEL LVR-HL1**	HL1	12 a	SWITCH	SWITCH, DDC TIMER, TIMECLOCK, PHOTOCELL	BUILDING LIGHTS
			1,7,11 b	SWITCH	SWITCH, DDC TIMER, TIMECLOCK, PHOTOCELL	POLE LIGHTS
			3,5,9c	SWITCH	SWITCH, DDC TIMER, TIMECLOCK, PHOTOCELL	SIGN LIGHTS
3 BUTTON SWITCH ADJACENT PANEL	*ZONE:*	*FUNCTION:*		*SWITCH LABEL:*		
	1) a	ON/OFF		BUILDING LITS		
	1) b	ON/OFF		POLE LITS		
	1) c	ON/OFF		SIGN LITS		

* ALL SWITCH LABELS SHALL BE ENGRAVED

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South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:

LIGHTING CONTROL SCHEDULE

SCALE: AS SHOWN
DRAWN: AS, EL
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PROJECT NO: 2022021.000

SHEET:
E7.2

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MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG	LOCATION/AREA SERVED	HP	KW	AMPS/FLA	MCA	MOCP/ MOP	VOLTAGE	PHASE	STARTER/DISCONNECT	CIRCUIT		CONDUIT/WIRE	NOTES	DEDUCTIVE ALTERNATE #1	DEDUCTIVE ALTERNATE #2
POOL DEHUMIDIFICATION															
DHU-1	POOL		69.83	84	91	110	480	3	FUSED DISCONNECT, INSTALL VFD	H1	10	1.25"-4#2, 1#6 GND			
PACKAGED ROOFTOP UNITS															
RTU-1	111 - PUMP ROOM		25.77	31	39	40	480	3	FUSED DISCONNECT, INSTALL VFD	HM1	1,3,5	1"-4#6,1#10GND	SMOKE DETECTOR IN RETURN DUCT		
RTU-2	096 - FITNESS		25.77	31	39	40	480	3	FUSED DISCONNECT, INSTALL VFD	HM1	7,9,11	1"-4#6,1#10GND	SMOKE DETECTOR IN RETURN DUCT	REVISED LOCATION ONLY, SEE MECHANICAL	
RTU-3	LOCKER ROOMS		48.22	58	72	80	480	3	FUSED DISCONNECT, INSTALL VFD	HM1	13,15,17	1.25"-4#3,1#6GND	SMOKE DETECTOR IN RETURN DUCT		
RTU-4	018 - LOBBY - NORTH		59.03	71	74	80	480	3	FUSED DISCONNECT, INSTALL VFD	HM1	19,21,23	1.25"-4#3,1#6GND	SMOKE DETECTOR IN RETURN DUCT		
RTU-5	019 - LOBBY - NORTH		25.77	31	31	40	480	3	FUSED DISCONNECT, INSTALL VFD	HM1	25,27,29	1.25"-4#3,1#6GND	SMOKE DETECTOR IN RETURN DUCT	REVISED LOCATION ONLY, SEE MECHANICAL	
AIR TO WATER PUMP															
ASHP-1-1	HEATING WATER		73.69	88.64	110.8	150	480	3	FUSED DISCONNECT	H1	5	2"-4#1/0, 1#6 GND			
ASHP-1-2	HEATING WATER		73.69	88.64	110.8	150	480	3	FUSED DISCONNECT	H1	6	2"-4#1/0, 1#6 GND			
ASHP-1-3	HEATING WATER		73.69	88.64	110.8	150	480	3	FUSED DISCONNECT	H1	7	2"-4#1/0, 1#6 GND			
ASHP-1-4	HEATING WATER		73.69	88.64	110.8	150	480	3	FUSED DISCONNECT	H1	8	2"-4#1/0, 1#6 GND			
FAN COIL UNITS															
FCU-1	111 - MULTI ROOM		0.10	0.48	0.6		208	1	DISCONNECT			(2)3/4"-WIRING PER MANUFACTURER	FED FROM HP OUTDOOR UNIT. CONFIRM REQUIREMENTS WITH MECHANICAL CONTRACTOR	CONNECTION NOT NEEDED	
FCU-2	113 - MULTI ROOM		0.10	0.48	0.6		208	1	DISCONNECT			(2)3/4"-WIRING PER MANUFACTURER	FED FROM HP OUTDOOR UNIT. CONFIRM REQUIREMENTS WITH MECHANICAL CONTRACTOR	CONNECTION NOT NEEDED	
FCU-3	114 - AQ DIR		0.10	0.48	0.6		208	1	DISCONNECT			(2)3/4"-WIRING PER MANUFACTURER	FED FROM HP OUTDOOR UNIT. CONFIRM REQUIREMENTS WITH MECHANICAL CONTRACTOR		
FCU-4	122 - LIFEGUARDS		0.10	0.48	0.6		208	1	DISCONNECT			(2)3/4"-WIRING PER MANUFACTURER	FED FROM HP OUTDOOR UNIT. CONFIRM REQUIREMENTS WITH MECHANICAL CONTRACTOR		
FCU-5	105 - PARKS DIR		0.10	0.48	0.6		208	1	DISCONNECT			(2)3/4"-WIRING PER MANUFACTURER	FED FROM HP OUTDOOR UNIT. CONFIRM REQUIREMENTS WITH MECHANICAL CONTRACTOR		CONNECTION NOT NEEDED
FCU-6	106 - PARKS BUS		0.10	0.48	0.6		208	1	DISCONNECT			(2)3/4"-WIRING PER MANUFACTURER	FED FROM HP OUTDOOR UNIT. CONFIRM REQUIREMENTS WITH MECHANICAL CONTRACTOR		CONNECTION NOT NEEDED
FCU-7	104 - PARKS ADMIN		0.10	0.48	0.6		208	1	DISCONNECT			(2)3/4"-WIRING PER MANUFACTURER	FED FROM HP OUTDOOR UNIT. CONFIRM REQUIREMENTS WITH MECHANICAL CONTRACTOR		CONNECTION NOT NEEDED
FCU-8	123 - MDF		0.10	0.48	0.6		208	1	DISCONNECT			(2)3/4"-WIRING PER MANUFACTURER	FED FROM HP OUTDOOR UNIT. CONFIRM REQUIREMENTS WITH MECHANICAL CONTRACTOR		
FCU-9	103 - MTG ROOM		0.50	2.4	3		208	1	DISCONNECT			(2)3/4"-WIRING PER MANUFACTURER	FED FROM HP OUTDOOR UNIT. CONFIRM REQUIREMENTS WITH MECHANICAL CONTRACTOR		CONNECTION NOT NEEDED
FCU-10	128 - ELEC		0.10	0.48	0.6		208	1	DISCONNECT			(2)3/4"-WIRING PER MANUFACTURER	FED FROM HP OUTDOOR UNIT. CONFIRM REQUIREMENTS WITH MECHANICAL CONTRACTOR		
FCU-11 ALT	128 - ELEC		0.04	0.2	0.25		208	1	DISCONNECT			(2)3/4"-WIRING PER MANUFACTURER	FED FROM HP OUTDOOR UNIT. CONFIRM REQUIREMENTS WITH MECHANICAL CONTRACTOR		
FCU-12 ALT	128 - ELEC		0.04	0.2	0.25		208	1	DISCONNECT			(2)3/4"-WIRING PER MANUFACTURER	FED FROM HP OUTDOOR UNIT. CONFIRM REQUIREMENTS WITH MECHANICAL CONTRACTOR		
HEAT PUMP CONDENSING UNITS															
HP-1	111 - MULTI ROOM		2.16	10.4	13	20	208	1	FUSED DISCONNECT	LM1	1,3	3/4"-4#12	FEEDS ASSOCIATED FCU UNIT	CONNECTION NOT NEEDED	
HP-2	113 - MULTI ROOM		2.16	10.4	13	20	208	1	FUSED DISCONNECT	LM1	5,7	3/4"-4#12	FEEDS ASSOCIATED FCU UNIT	CONNECTION NOT NEEDED	
HP-3	114- AQ DIR		2.16	10.4	13	20	208	1	FUSED DISCONNECT	LM1	9,11	3/4"-4#12	FEEDS ASSOCIATED FCU UNIT		
HP-4	122 - LIFEGUARDS		2.16	10.4	13	20	208	1	FUSED DISCONNECT	LM1	13,15	3/4"-4#12	FEEDS ASSOCIATED FCU UNIT		
HP-5	105 - PARKS DIR		2.16	10.4	13	20	208	1	FUSED DISCONNECT	LM1	17,19	3/4"-4#12	FEEDS ASSOCIATED FCU UNIT		CONNECTION NOT NEEDED
HP-6	106 - PARKS BUS		2.16	10.4	13	20	208	1	FUSED DISCONNECT	LM1	21,23	3/4"-4#12	FEEDS ASSOCIATED FCU UNIT		CONNECTION NOT NEEDED
HP-7	104 - PARKS ADMIN		2.16	10.4	13	20	208	1	FUSED DISCONNECT	LM1	25,27	3/4"-4#12	FEEDS ASSOCIATED FCU UNIT		CONNECTION NOT NEEDED
HP-8	123 - MDF		2.16	10.4	13	20	208	1	FUSED DISCONNECT	LM1	29,31	3/4"-4#12	FEEDS ASSOCIATED FCU UNIT. EXTEND CIRCUITRY LEG TO CONDENSATE PUMP		
HP-9	103 - MTG ROOM		2.66	12.8	16	25	208	1	FUSED DISCONNECT	LM1	33,35	3/4"-4#10	FEEDS ASSOCIATED FCU UNIT		CONNECTION NOT NEEDED
HP-10	128 - ELEC		2.16	10.4	13	20	208	1	FUSED DISCONNECT	LM1	37,39	3/4"-4#12	FEEDS ASSOCIATED FCU UNIT		
HP-11 ALT	104		2.16	10.4	13	20	208	1	FUSED DISCONNECT	LM1	41,43	3/4"-4#12	FEEDS BOTH FCU-11 ALT & FCU-12 ALT		PROVIDE ONLY FOR ALT #2
FANS															
EF-1	112, 113 - STORAGE		0.86	1.5			120	1	FUSED DISCONNECT	LM1	2	3/4"-3#12			
EF-2	111 - PUMP ROOM		0.86				120	1	FUSED DISCONNECT	LM1	4	3/4"-3#12			
EF-3	110 - CHEM		0.86				120	1	FUSED DISCONNECT	LM1	6	3/4"-3#12			
EF-4	109 - CHEM		0.86				120	1	FUSED DISCONNECT	LM1	8	3/4"-3#12			
EF-5	POOL		3.82	3.6			208	3	FUSED DISCONNECT	LM1	10,12,14	3/4"-5#12			
EF-6	WC-109		0.70	1.3			120	1	FUSED DISCONNECT	LM1	16	3/4"-3#12		REVISED LOCATION ONLY, SEE MECHANICAL	
EF-7	EXIST. MAINTENANCE/TREATMENT	1/4	0.70	1.3			120	1	FUSED DISCONNECT	MT	7	3/4"-3#12			
CEILING FANS															
HVLS-1	NATATORIUM DECK - 124		1.50	5.4			277	1	FUSED DISCONNECT	HM1	2	3/4"-3#12			
HVLS-2	NATATORIUM DECK - 124		1.50	5.4			277	1	FUSED DISCONNECT	HM1	4	3/4"-3#12			
ENERGY RECOVERY															
ERV-1	111, 113 - MULTI ROOMS		5.84	16.2	18.2	25	208	1	DISCONNECT, INSTALL VFD	LM1	18,20	3/4"-4#12		CONNECTION NOT NEEDED	
ERV-2	AQ DIR - 114, LIFEGUARDS - 122		0.48	2.312	2.89		120	1	FUSED DISCONNECT	LM1	22	3/4"-3#12	CONFIRM MOCP WITH MANUFACTURER		
ERV-3	103,104,105,106		5.84	16.2	18.2	25	208	1	DISCONNECT, INSTALL VFD	LM1	24,26	3/4"-4#10			CONNECTION NOT NEEDED
ERV-4 ALT	PARK ADMIN - 104		0.03			15	120	1	FUSED DISCONNECT	LM1	28	3/4"-3#12			PROVIDE ONLY FOR ALT #2
ERV-5 ALT	PARK ADMIN - 103		0.03			15	120	1	FUSED DISCONNECT	LM1	28	3/4"-3#12			PROVIDE ONLY FOR ALT #2
ELECTRIC BOILER															
EB-1	MECHANICAL ROOM		360.00	434			480	3	FUSED DISCONNECT	H1	9	(2)-3"-4#350 & 1#1 GND			
PUMP SCHEDULE															
HWP-1	HEATING	15	19.12	23	28	30	480	3	DISCONNECT, INSTALL VFD	HM1	6,8,10	3/4"-5#10			
HWP-2	HEATING	15	19.12	23	28	30	480	3	DISCONNECT, INSTALL VFD	HM1	12,14,16	3/4"-5#10			
P-1	PRIMARY HEATING	7.5	9.98	12	15	15	480	3	DISCONNECT, INSTALL VFD	HM1	18,20,22	3/4"-5#12			
P-2	PRIMARY HEATING	7.5	9.98	12	15	15	480	3	DISCONNECT, INSTALL VFD	HM1	24,26,28	3/4"-5#12			
BCP-1	BOILER CIRC	1.5	2.49	3			480	3	DISCONNECT, INSTALL VFD	HM1	30,32,34	3/4"-5#12			
WALL HEATER															
WH-1	RISER 129		1.50			20	120	1	DISCONNECT	LP1	17	3/4"-3#12			
WH-2	VESTIBULE		1.50			20	120	1	DISCONNECT	LP2	66	3/4"-3#12			REVISED LOCATION ONLY, SEE MECHANICAL
WH-3	PROG STORAGE - 132		1.50			20	120	1	DISCONNECT	LP1	19	3/4"-3#12			
WH-4	PUMP ROOM 126		4.00			20	277	1	DISCONNECT	HM1	31	3/4"-3#12			
WH-5	EXIST. MAINTENANCE/TREATMENT		4.00			25	208	1	DISCONNECT	MT	9,11	3/4"-4#10			
MISCELLANEOUS EQUIPMENT															
GF-1	GLYCOL FEED SYSTEM	1/3	0.86				120	1	FUSED DISCONNECT	LP1	21	3/4"-4#12	COORDINATE LOCATION WITH MECHANICAL CONTRACTOR		

SHEET NOTES:

1. SEE MECHANICAL AND PLUMBING DRAWINGS DETAILS FOR ADDITIONAL ELECTRICAL SCOPE DETAILS. ELECTRICAL CONTRACTOR TO PROVIDE ALL LINE- VOLTAGE CONNECTIONS ON MECHANICAL AND PLUMBING DRAWINGS UNLESS OTHERWISE NOTED.
2. CONDUIT AND WIRE SIZES ARE FOR COPPER CONDUCTORS. ELECTRICAL CONTRACTOR SHALL INCREASE CONDUIT AND CONDUCTOR SIZES AS NEEDED.

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South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

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MECHANICAL SCHEDULE

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CHECKED: AB
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E8.0

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SHEET NOTES:

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MECHANICAL EQUIPMENT CONNECTION SCHEDULE

TAG	LOCATION/AREA SERVED	HP	KW	AMPS/FLA	MCA	MOCP/ MOP	VOLTAGE	PHASE	STARTER/DISCONNECT	CIRCUIT		CONDUIT/WIRE	NOTES	DEDUCTIVE ALTERNATE #1	DEDUCTIVE ALTERNATE #2
PLUMBING EQUIPMENT															
DOMESTIC WATER HEAT PUMP SYSTEM															
DWHP-1	ROOF/BLDG HOT WATER SYSTEM		16.10	35.4	55	80	480	3	DISCONNECT	HM2	1,3,5	1.25"-4#3,1#6GND			
DWHX-1	MECH ROOM/BLDG HOT WATER SYSTEM			15		15	120	1	DISCONNECT	LM2	8	3/4"-3#12			
DWST-1	MECH ROOM/BLDG HOT WATER SYSTEM		18.00	24		30	480	3	DISCONNECT	HM2	7,9,11	3/4"-5#10			
ELECTRIC WATER HEATER															
EWH-1	MULTIROOM 111/SINK		20.00	24.06738869		30	480	3	DISCONNECT	HM2	13,15,17	3/4"-5#10		CONNECTION NOT NEEDED	
EWH-2	RISER ROOM/EMERGENCY SHOWERS AND LAUNDRY		18.00	21.7		30	120	1	DISCONNECT	HM2	19	3/4"-5#10			
EWH-3	WC 109 / LAVATORY		8.00	28.88086643		30	277	1	DISCONNECT	HM2	33,35,37	3/4"-3#10			
PUMPS															
CP-1	WATER HEATER 177/LOCKER ROOMS AND ADMIN AREA	1/6	0.17	1.48		15	120	1	DISCONNECT	LP1	23	3/4"-3#12			
CP-2	BLDG MECH 149/LAUNDRY ROOM AND RESTROOMS		0.01	0.23		15	120	1	DISCONNECT	LP1	23	3/4"-3#12			
DOMESTIC WATER PRESSURE BOOSTER SYSTEM															
DWBP-1	RISER		8.48	10.2			480	3	FUSED DISCONNECT, CONTROL PANEL	HM2	21,23,25	3/4"-5#12	PROVIDE ALL CONNECTIONS AS SHOWN ON MECHANICAL DRAWINGS DETAIL. COORDINATE WITH MECHANICAL CONTRACTOR		
MISCELLANEOUS EQUIPMENT															
DWMV-1	MECH 113		0.13	1			120	1	DISCONNECT	LP2	68	3/4"-3#12			
TP-1 - TP-6	SEE PLANS						120	1				3/4"-3#12	EXTEND CIRCUIT FROM RECEPTACLE AS SHOWN ON PLANS		
PW-1	RISER 129		10.81	30		35	208	1	DISCONNECT	LP1	18,20	1"-3#8, 1#10 GND			
FIRE PROTECTION EQUIPMENT															
DOMESTIC WATER HEAT PUMP SYSTEM															
FIRE PUMP	RISER	60	64.00	77		125	480	3	CIRCUIT BREAKER, INSTALL CONTROLLER/ATS	H1	11	1.25"-4#1,1#6GND	CONFIRM REQUIREMENTS WITH DESIGN-BUILD CONTRACTOR PRIOR TO CONSTRUCTION		
JOCKEY PUMP	RISER	3	4.00	4.6		20	480	3	FUSED DISCONNECT, INSTALL CONTROLLER	HM2	27,29,31	3/4"-3#12	CONFIRM REQUIREMENTS WITH DESIGN-BUILD CONTRACTOR PRIOR TO CONSTRUCTION		

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SHEET:

E8.1

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SHEET NOTES:

1. SEE MECHANICAL AND PLUMBING DRAWINGS DETAILS FOR ADDITIONAL ELECTRICAL SCOPE DETAILS. ELECTRICAL CONTRACTOR TO PROVIDE ALL LINE- VOLTAGE CONNECTIONS ON MECHANICAL AND PLUMBING DRAWINGS UNLESS OTHERWISE NOTED.
2. CONDUIT AND WIRE SIZES ARE FOR COPPER CONDUCTORS. ELECTRICAL CONTRACTOR SHALL INCREASE CONDUIT AND CONDUCTOR SIZES AS NEEDED.

AQUATIC EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	HP	KW	AMPS/FLA	MCA	MOCP/ MOP	VOLTAGE	PHASE	DISCONNECT/STARTER PROVIDE NEMA 4X RATING FOR ALL EQUIPMENT	CIRCUIT		CONDUIT/WIRE	NOTES
													GENERAL NOTE: ELECTRICAL CONTRACTOR SHALL PROVIDE ALL POWER AND CONTROLS SCOPE. REFER TO ALL AQUATIC PLANS FOR ADDITIONAL SCOPE DETAILS AND EQUIPMENT ROUTED VIA MOTOR CONTROLS CENTER
POOL EQUIPMENT													
EQUIP-2	POOL CIRC PUMP	15	17.46	21		30	480	3	INSTALL VFD	HM2	2,4,6	3/4"-5#10	FURNISH AND INSTALL ALL POWER AND CONTROLS INCLUDING WIRING, BOXES, AND RACEWAY
EQUIP-4	SWIMMING UV TREATMENT SYSTEM		2.50			20	208	1	DISCONNECT	LP1	28,30,32	3/4"-4#12	FURNISH AND INSTALL ALL POWER AND CONTROLS INCLUDING WIRING, BOXES, AND RACEWAY
EQUIP-5	ACTIVITY CIRC PUMP	7.5	9.14	11		20	480	3	INSTALL VFD	HM2	8,10,12	3/4"-5#12	FURNISH AND INSTALL ALL POWER AND CONTROLS INCLUDING WIRING, BOXES, AND RACEWAY
EQUIP-6	ACTIVITY VORTEX BOOSTER	7.5	9.14	11		20	480	3	INSTALL VFD	HM2	14,16,18	3/4"-5#12	FURNISH AND INSTALL ALL POWER AND CONTROLS INCLUDING WIRING, BOXES, AND RACEWAY
EQUIP-7	ACTIVITY POOL RIVER PUMP	15	17.46	21		30	480	3	INSTALL VFD	HM2	20,22,24	3/4"-5#10	FURNISH AND INSTALL ALL POWER AND CONTROLS INCLUDING WIRING, BOXES, AND RACEWAY
EQUIP-8	ACTIVITY POOL FEATURE PUMP	1	1.75	2.1		15	480	3	FUSED DISCONNECT, COMBO MOTOR STARTER	HM2	26,28,30	3/4"-4#12	FURNISH AND INSTALL ALL POWER AND CONTROLS INCLUDING WIRING, BOXES, AND RACEWAY
EQUIP-10	ACTIVITY UV TREATMENT SYSTEM		1.50			20	208	1	DISCONNECT	LP1	32,34	3/4"-4#12	FURNISH AND INSTALL ALL POWER AND CONTROLS INCLUDING WIRING, BOXES, AND RACEWAY
EQUIP-11	HYDROTHERAPY CIRC PUMP	7.5	9.14	11		20	480	3	INSTALL VFD	HM2	32,34,36	3/4"-5#12	FURNISH AND INSTALL ALL POWER AND CONTROLS INCLUDING WIRING, BOXES, AND RACEWAY
EQUIP-12	HYDROTHERAPY SPA BOOSTER PUMP	5	3.99	4.8		15	480	3	FUSED DISCONNECT, COMBO MOTOR STARTER	HM2	38,40,42	3/4"-5#12	FURNISH AND INSTALL ALL POWER AND CONTROLS INCLUDING WIRING, BOXES, AND RACEWAY
EQUIP-14	HYDROTHERAPY UV TREATMENT SYSTEM		1.50			20	208	1	DISCONNECT	LP1	36,38	3/4"-4#12	FURNISH AND INSTALL ALL POWER AND CONTROLS INCLUDING WIRING, BOXES, AND RACEWAY
EQUIP-16	(3) WATER CHEMISTRY CONTROLLERS		0.50			20	120	1	RECEPTACLE	LM2	2,4,6	SEE PLANS	(3) LOCATIONS. FURNISH AND INSTALL ALL POWER & CONTROLS INCLUDING WIRING, BOXES, AND RACEWAY. SEE PLANS
EQUIP-18A	POOL GENERATION SYSTEM		1.00			20	208	1	DISCONNECT	LP1	40,42	3/4"-4#12	PROVIDE NEMA 4X ENCLOSURE. FURNISH AND INSTALL ALL POWER & CONTROLS INCLUDING WIRING, BOXES, AND RACEWAY
EQUIP-18B	POOL GENERATION SYSTEM		1.00			20	208	1	DISCONNECT	LP1	44,46	3/4"-4#12	PROVIDE NEMA 4X ENCLOSURE. FURNISH AND INSTALL ALL POWER & CONTROLS INCLUDING WIRING, BOXES, AND RACEWAY
EQUIP-19	ACTIVITY GENERATION SYSTEM		1.00			20	208	1	DISCONNECT	LP1	48,50	3/4"-4#12	PROVIDE NEMA 4X ENCLOSURE. FURNISH AND INSTALL ALL POWER & CONTROLS INCLUDING WIRING, BOXES, AND RACEWAY
EQUIP-20	HYDROTHERAPY GENERATION SYSTEM		1.00			20	208	1	DISCONNECT	LP1	52,54	3/4"-4#12	PROVIDE NEMA 4X ENCLOSURE. FURNISH AND INSTALL ALL POWER & CONTROLS INCLUDING WIRING, BOXES, AND RACEWAY
EQUIP-23	LIGHTING CONTACTOR												PROVIDE PER AQUATIC PLAN SPECIFICATIONS. FURNISH AND INSTALL ALL POWER CONTROLS INCLUDING WIRING, BOXES, AND RACEWAY FOR LIGHTS AND CONTACTOR
EQUIP-25A	SWIMMING/ACTIVITY FILL STATION		0.50			20	120	1	DISCONNECT	LP1	56	3/4"-3#12	FURNISH AND INSTALL ALL POWER & CONTROLS INCLUDING WIRING, BOXES, AND RACEWAY
EQUIP-25B	HYDROTHERAPY FILL STATION		0.50			20	120	1	DISCONNECT	LP1	58	3/4"-3#12	FURNISH AND INSTALL ALL POWER & CONTROLS INCLUDING WIRING, BOXES, AND RACEWAY
EQUIP-28	WATER FEATURE AIR COMPRESSOR	4	6.00			30	208	1	DISCONNECT	LM2	12,14	3/4"-4#12	PROVIDE PER AQUATIC PLAN SPECIFICATIONS. FURNISH AND INSTALL ALL POWER CONTROLS INCLUDING WIRING, BOXES. PROVIDE TRANSFORMER PER AQUATIC PLAN SPECIFICATIONS.
EQUIP-29	ACTIVITY FEAT UV TREATMENT SYSTEM		1.50			20	208	1	DISCONNECT	LP1	60,62	3/4"-4#12	FURNISH AND INSTALL ALL POWER AND CONTROLS INCLUDING WIRING, BOXES, AND RACEWAY

ISLAND COUNTY
Reviewed For
2021 IBC
Code Compliance
07/18/2025
Brian Boyle

architecture resource collaborative
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KEVIN E. WARTELLE — STATE OF WASHINGTON — 24186 — REGISTERED PROFESSIONAL ENGINEER

S WHIDBEY PARKS & REC
AQUATIC REC CENTER

PID 812720 MAXWELTON RD
LANGLEY, WA 98260

South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE

Rev #	Date	Description

CONTENTS:

AQUATIC CONNECTION SCHEDULE

SCALE: AS SHOWN
DRAWN: AS, EL
CHECKED: AB
PROJECT NO: 2022021.000

SHEET:

E8.2

D:\ARC\South Whidbey Parks&Rec Center 22-2021\E8.2 E8.4.dwg
2/3/2021 2:03 PM

MAIN SWITCHBOARD HI
LOCATION MAIN EL ROOM
MOUNTING SURFACE
AIC 65,000
FED FROM UTILITY
INTERNAL METERING

VOLTS 480 /277 3 PHASE, 4 WIRE, WYE
AMPS 2500
MAIN CIRCUIT BREAKER WITH GROUND FAULT PROTECTION
GROUND BUS
UL SERVICE LABEL
PROVIDE SURGE PROTECTOR

CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA	CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA
1	450/3	DISTRIBUTION LI	114.10	2	100/3	PANEL HL1	22.16
3	600/3	PANEL HM1	475.41	4	150/3	ASHP-1-1	73.70
5	150/3	ASHP-1-2	73.70	6	150/3	ASHP-1-3	73.70
7	150/3	ASHP-1-4	73.70	8	250/3	DWHP-1	0.00
9	600/3	EB-1	360.00	10	110/3	DHU-1	70.00
11	125/3	FIRE PUMP	64.00	12	200/3	SPARE	0.00
13	20/3	METER POWER		14	100/3	SPACE ONLY	
15	200/3	PV SYSTEM		16	100/3	SURGE PROTECTOR	

CONNECTED LOAD	KVA	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
LIGHTS	27.54	125%	34.43	41.41
RECEPTACLES	32.74	50% AFTER 10	21.37	25.70
HEATING	822.46	100%	822.46	989.27
LARGEST MOTOR	64.00	125%	80.00	96.23
OTHER MOTORS	300.01	100%	300.01	360.86
MISCELLANEOUS	153.71	100%	153.71	184.88
KITCH. APPLIANCES	0.00	100%	0.00	0.00
	1400.46		1411.98	1698.35

PANEL HLI I SECTION
LOCATION MAIN EL ROOM
MOUNTING SURFACE
AIC 65,000
FED FROM HI

VOLTS 480 /277 3 PHASE, 4 WIRE, WYE
AMPS 100
MAIN LUGS ONLY
GROUND BUS

CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA	CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA
1	20/1	LIGHTS SITE PARK	0.68	2	20/1	LIGHTS WEST ELEC/MECH	1.50
3	20/1	LIGHTS SITE N SIGN	0.10	4	20/1	LIGHTS POOL SOUTH	3.05
5	20/1	LIGHTS SITE N SIGNAGE	0.10	6	20/1	LIGHTS POOL NORTH	1.31
7	20/1	LIGHTS SITE PED EAST	0.03	8	20/1	LIGHTS EXTERIOR WEST	0.34
9	20/1	LIGHTS SITE S SIGN	0.50	10	20/1	LIGHTS EXTERIOR SOUTH	0.22
11	20/1	LIGHTS SITE PED SOUTH	0.10	12	20/1	LIGHTS EXTERIOR EAST	0.31
13	20/1	SPARE	0.00	14	20/1	LIGHTS POOL CENTER	3.45
15	20/1	SPARE	0.00	16	20/1	LIGHTS POOL CENTER	
17	20/1	SPACE ONLY		18	20/1	LIGHTS POOL NORTH	
19	20/1	SPACE ONLY		20	20/1	LIGHTS POOL NORTH	
21	20/1	SPACE ONLY		22	20/1	SPACE ONLY	
23	20/1	SPACE ONLY		24	20/1	SPACE ONLY	
25	100/3	PANEL HL2	4.83	26	20/1	SPACE ONLY	
27			0.00	28	20/1	SPACE ONLY	
29			0.00	30	20/1	SPACE ONLY	

CONNECTED LOAD	KVA	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
LIGHTS	22.16	125%	27.69	33.31
RECEPTACLES	0.00	100%	0.00	0.00
HEATING	0.00	100%	0.00	0.00
LARGEST MOTOR	0.00	125%	0.00	0.00
OTHER MOTORS	0.00	100%	0.00	0.00
MISCELLANEOUS	0.00	100%	0.00	0.00
KITCH. APPLIANCES	0.00	65%	0.00	0.00
	22.16		27.69	33.31

PANEL HL2 I SECTION
LOCATION MAIN EL ROOM
MOUNTING FLUSH
AIC 42,000
FED FROM HLI

VOLTS 480 /277 3 PHASE, 4 WIRE, WYE
AMPS 100
MAIN LUGS ONLY
GROUND BUS

CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA	CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA
1	20/1	LIGHTS CHANGING/DIR	2.50	2	20/1	SPACE ONLY	
3	20/1	LIGHTS ADMIN OFFICES	0.51	4	20/1	SPACE ONLY	
5	20/1	LIGHTS FITNESS/MULTI	0.82	6	20/1	SPACE ONLY	
7	20/1	LIGHTS FORREST	0.40	8	20/1	SPACE ONLY	
9	20/1	SPARE	0.00	10	20/1	SPACE ONLY	
11	20/1	LIGHTS LOBBY	0.40	12	20/1	SPACE ONLY	
13	20/1	LIGHTS EAST HALL	0.20	14	20/1	SPACE ONLY	
15	20/1	SPARE	0.00	16	20/1	SPACE ONLY	
17	20/1	SPARE	0.00	18	20/1	SPACE ONLY	
19	20/1	SPARE	0.00	20	20/1	SPACE ONLY	
21		SPACE ONLY		22	20/1	SPACE ONLY	
23		SPACE ONLY		24	20/1	SPACE ONLY	
25		SPACE ONLY		26	20/1	SPACE ONLY	
27		SPACE ONLY		28	20/1	SPACE ONLY	
29		SPACE ONLY		30	20/1	SPACE ONLY	

CONNECTED LOAD	KVA	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
LIGHTS	4.83	125%	6.04	7.26
RECEPTACLES	0.00	100%	0.00	0.00
HEATING	0.00	100%	0.00	0.00
LARGEST MOTOR	0.00	125%	0.00	0.00
OTHER MOTORS	0.00	100%	0.00	0.00
MISCELLANEOUS	0.00	100%	0.00	0.00
KITCH. APPLIANCES	0.00	65%	0.00	0.00
	4.83		6.04	7.26

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PANEL HMI I SECTION
LOCATION MAIN ELEC
MOUNTING SURFACE
AIC 65,000
FED FROM HI

VOLTS 480 /277 3 PHASE, 4 WIRE, WYE
AMPS 600
MAIN LUGS ONLY
GROUND BUS

CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA	CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA
1	40/3	RTU-1	25.80	2	20/1	HVLS-1	1.50
3				4	20/1	HVLS-2	1.50
5				6	30/3	HWP-1	19.12
7	40/3	RTU-2	25.80	8			
9				10			
11				12	30/3	HWP-2	19.12
13	80/3	RTU-3	48.20	14			
15				16			
17				18	15/3	P-1	9.98
19	80/3	RTU-4	59.00	20			
21				22			
23				24	15/3	P-2	9.98
25	40/3	RTU-5	25.80	26			
27				28			
29				30	15/3	BCP-1	1.50
31	20/1	WH-4	4.00	32			
33		SPACE ONLY		34			
35		SPACE ONLY		36		SPACE ONLY	
37		SPACE ONLY		38		SPACE ONLY	
39		SPACE ONLY		40		SPACE ONLY	
41		SPACE ONLY		42		SPACE ONLY	
43		SPACE ONLY		44		SPACE ONLY	
45		SPACE ONLY		46		SPACE ONLY	
47		SPACE ONLY		48		SPACE ONLY	
49		SPACE ONLY		50		SPACE ONLY	
51		SPACE ONLY		52		SPACE ONLY	
53		SPACE ONLY		54		SPACE ONLY	
55		SPACE ONLY		56		SPACE ONLY	
57		SPACE ONLY		58		SPACE ONLY	
59		SPACE ONLY		60		SPACE ONLY	
61		SPACE ONLY		62		SPACE ONLY	
63		SPACE ONLY		64		SPACE ONLY	
65		SPACE ONLY		66		SPACE ONLY	
67		SPACE ONLY		68		SPACE ONLY	
69		SPACE ONLY		70		SPACE ONLY	
71		SPACE ONLY		72		SPACE ONLY	
73		SPACE ONLY		74		SPACE ONLY	
75		SPACE ONLY		76		SPACE ONLY	
77		SPACE ONLY		78		SPACE ONLY	
79	100/3	PANEL LMI	63.45	80	400/3	PANEL HM2	160.66
81				82			
83				84			

CONNECTED LOAD	KVA	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
LIGHTS	5.29	125%	6.61	7.95
RECEPTACLES	0.00	100%	0.00	0.00
HEATING	164.66	100%	164.66	198.06
LARGEST MOTOR	48.20	125%	60.25	72.47
OTHER MOTORS	171.26	100%	171.26	205.99
MISCELLANEOUS	86.00	100%	86.00	103.44
KITCH. APPLIANCES	0.00	65%	0.00	0.00
	475.41		488.78	587.91

* NO LOAD FOR DEDUCTIVE ALTERNATE #1
PANEL HM2 I SECTION
LOCATION PUMP
MOUNTING SURFACE
AIC 42,000
FED FROM HMI

VOLTS 480 /277 3 PHASE, 4 WIRE, WYE
AMPS 400
MAIN CIRCUIT BREAKER
GROUND BUS
NEMA 4X

CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA	CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA
1	80/3	DWHP-1	16.10	2	30/3	EQUIP-2-POOL CIRC PMP	17.46
3				4			
5				6			
7	30/3	DWST-1	18.00	8	20/3	EQUIP 5-ACT CIRC PMP	9.14
9			0.00	10			
11			0.00	12			
13	30/3	EWH-1	20.00	14	20/3	EQUIP 6-ACT VORTEX	9.14
15			0.00	16			
17			0.00	18			
19	20/1*	EWH-3	8.00	20	30/3	EQUIP-7-ACT RIVER PMP	17.46
21	15/3	DWBP-1	8.48	22			
23				24			
25				26	15/3	EQUP-8- ACT FEAT PMP	1.75
27	20/3	JOCKEY PUMP	4.00	28			
29			0.00	30			
31			0.00	32	20/3	EQUIP-11-HYDRO CIRC PM	9.14
33	30/3	EWH-2	18.00	34			
35			0.00	36			
37			0.00	38	15/3	EQUIP-12-HYDRO SPA PMP	3.99
39	20/1	SPACE ONLY	0.00	40			
41	20/1	SPACE ONLY	0.00	42			
43	20/1	SPACE ONLY	0.00	44	20/1	SPACE ONLY	0.00
45	20/1	SPACE ONLY	0.00	46	20/1	SPACE ONLY	0.00
47	20/1	SPACE ONLY	0.00	48	20/1	SPACE ONLY	0.00
49	20/1	SPACE ONLY	0.00	50	20/1	SPACE ONLY	0.00
51	20/1	SPACE ONLY	0.00	52	20/1	SPACE ONLY	0.00
53	20/1	SPACE ONLY	0.00	54	20/1	SPACE ONLY	0.00
55	20/1	SPACE ONLY	0.00	56	20/1	SPACE ONLY	0.00
57	20/1	SPACE ONLY	0.00	58	20/1	SPACE ONLY	0.00
59	20/1	SPACE ONLY	0.00	60	20/1	SPACE ONLY	0.00

CONNECTED LOAD	KVA	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
LIGHTS	0.00	125%	0.00	0.00
RECEPTACLES	0.00	100%	0.00	0.00
HEATING	0.00	100%	0.00	0.00
LARGEST MOTOR	17.46	125%	21.83	26.25
OTHER MOTORS	63.10	100%	63.10	75.90
MISCELLANEOUS	80.10	100%	80.10	96.35
KITCH. APPLIANCES	0.00	65%	0.00	0.00
	160.66		165.03	198.49

*PROVIDE ONLY FOR DEDUCTIVE ALTERNATE #1
**PROVIDE ONLY FOR DEDUCTIVE ALTERNATE #2
*** NO LOAD FOR DEDUCTIVE ALTERNATE #1
**** NO LOAD FOR DEDUCTIVE ALTERNATE #2
PANEL LMI I SECTION
LOCATION MAIN ELEC
MOUNTING SURFACE
AIC 65,000
FED FROM HMI

VOLTS 208 /120 3 PHASE, 4 WIRE, WYE
AMPS 200
MAIN CIRCUIT BREAKER
GROUND BUS

CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA	CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA
1	20/2***	HP-1	2.16	2	20/1	EF-1	0.86
3				4	20/1	EF-2	0.86
5	20/2***	HP-2	2.16	6	20/1	EF-3	0.86
7				8	20/1	EF-4	0.86
9	20/2	HP-3	2.16	10	20/3	EF-5	7.64
11				12			0.00
13	20/2	HP-4	2.16	14			0.00
15				16	20/1	EF-6	0.70
17	20/2****HP-5		2.16	18	25/2***	ERV-1	5.84
19				20			0.00
21	20/2****HP-6		2.16	22	20/1	ERV-2	0.48
23				24	25/2	ERV-3	5.84
25	20/2****HP-7		2.16	26			0.03
27				28	15/1**	ERV-4 ALT/ERV-5 ALT	0.03
29	20/2	HP-8	2.16	30	20/1	SPARE	0.00
31				32	20/1	SPARE	0.00
33	25/2	HP-9	2.66	34	20/1	SPARE	0.00
35				36		SPACE ONLY	
37	20/2	HP-10	2.16	38		SPACE ONLY	
39				40		SPACE ONLY	
41	20/2	HP-11 ALT	2.16	42		SPACE ONLY	
43				44		SPACE ONLY	
45	20/1	SPARE	0.00	46		SPACE ONLY	
47	20/1	SPARE	0.00	48		SPACE ONLY	
49	20/1	SPARE	0.00	50		SPACE ONLY	
51		SPACE ONLY		52		SPACE ONLY	
53		SPACE ONLY		54		SPACE ONLY	
55		SPACE ONLY		56		SPACE ONLY	
57		SPACE ONLY		58		SPACE ONLY	
59		SPACE ONLY		60		SPACE ONLY	
61		SPACE ONLY		62		SPACE ONLY	
63		SPACE ONLY		64		SPACE ONLY	
65		SPACE ONLY		66		SPACE ONLY	
67		SPACE ONLY		68		SPACE ONLY	
69		SPACE ONLY		70		SPACE ONLY	
71		SPACE ONLY		72		SPACE ONLY	
73		SPACE ONLY		74		SPACE ONLY	
75		SPACE ONLY		76		SPACE ONLY	
77		SPACE ONLY		78		SPACE ONLY	
79		SPACE ONLY		80	200/3	PANEL LM2	15.19
81		SPACE ONLY		82			
83		SPACE ONLY		84			

CONNECTED LOAD	KVA	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
LIGHTS	5.29	125%	6.61	18.35
RECEPTACLES	0.00	100%	0.00	0.00
HEATING	24.26	100%	24.26	67.34
LARGEST MOTOR	3.82	125%	4.78	13.25
OTHER MOTORS	24.18	100%	24.18	67.12
MISCELLANEOUS	5.90	100%	5.90	16.38
KITCH. APPLIANCES	0.00	65%	0.00	0.00
	63.45		65.73	182.44

* PROVIDE GFCI BREAKER
PANEL LM2 I SECTION
LOCATION PUMP
MOUNTING SURFACE
AIC 42,000
FED FROM LMI

VOLTS 208 /120 3 PHASE, 4 WIRE, WYE
AMPS 200
MAIN CIRCUIT BREAKER
GROUND BUS
NEMA 4X

CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA	CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA
1	20/1*	AP/HS UNDERWATER LTS	0.61	2	20/1	EQUIP #16 - CONTROLS	0.50
3	20/1*	AP/HS UNDERWATER LTS	0.61	4	20/1	EQUIP #16 - CONTROLS	0.50
5	20/1*	SP UNDERWATER LTS	0.61	6	20/1	EQUIP #16 - CONTROLS	0.50
7	20/1*	SP UNDERWATER LTS	0.52	8	20/1	DWHX-1	1.00
9	20/1*	HS EMERGENCY STOP	0.72	10			
11	20/1	RIVER CONTROLLER	0.72	12	30/2	EQUIP-28-WATER FEAT AC	4.00
13	20/1	LIGHTING CONTROL A/B	0.50	14			
15	20/1	LIGHTING CONTROL C/D	0.50	16	20/1	IRRIGATION CONTROLLLER	0.20
17	20/1	LIGHTING CONTROL E	0.50	18	20/1	SPARE	0.00
19	20/1	FILTER AFC	0.20	20	20/1	SPARE	0.00
21	20/1	FILTER PRES PUMP	0.50	22		SPACE ONLY	
23	20/1	WATER CHEM CONTROL	0.20	24		SPACE ONLY	
25	20/1	WATER CHEM RELAY	0.20	26		SPACE ONLY	
27	20/1	CIRC PUMP INTERCONN	0.20	28		SPACE ONLY	
29	20/1	CIRC PUMP MOTOR CTL	0.20	30		SPACE ONLY	
31	20/1	FILTER PRIORITY VALVE	0.10	32		SPACE ONLY	
33	20/1	CO2 DETECTOR	0.10	34		SPACE ONLY	
35	20/1	SPA RECIRC	0.50	36		SPACE ONLY	
37	30/1	UV	1.00	38		SPACE ONLY	
39	20/1	SPARE	0.00	40		SPACE ONLY	
41	20/1	SPARE	0.00	42		SPACE ONLY	
43	20/1	SPARE	0.00	44		SPACE ONLY	
45		SPACE ONLY		46		SPACE ONLY	
47		SPACE ONLY		48		SPACE ONLY	
49		SPACE ONLY		50		SPACE ONLY	
51		SPACE ONLY		52		SPACE ONLY	
53		SPACE ONLY		54		SPACE ONLY	
55		SPACE ONLY		56		SPACE ONLY	
57		SPACE ONLY		58		SPACE ONLY	
59		SPACE ONLY		60		SPACE ONLY	

CONNECTED LOAD	KVA	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
LIGHTS	5.29	125%	6.61	18.35
RECEPTACLES	0.00	100%	0.00	0.00
HEATING	0.00	100%	0.00	0.00
LARGEST MOTOR	0.00	125%	0.00	0.00
OTHER MOTORS	4.00	100%	4.00	11.10
MISCELLANEOUS	5.90	100%	5.90	16.38
KITCH. APPLIANCES	0.00	65%	0.00	0.00
	15.19		16.51	45.83

ISLAND COUNTY
Reviewed For
2021 IBC
Code Compliance
07/18/2025
Brian Boyle

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AQUATIC REC CENTER

PID 812720 MAXWELTON RD
LANGLEY, WA 98260

South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE

Rev #	Date	Description

CONTENTS:
PANEL SCHEDULES

SCALE: AS SHOWN
DRAWN: AS, EL
CHECKED: AB
PROJECT NO.: 2022021.000

SHEET:
E8.3

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7/2/2025 1:23 PM

MAIN DIST LI
LOCATION MAIN ELEC
MOUNTING SURFACE
AIC 65,000
FED FROM HI

VOLTS 208 /120 3 PHASE, 4 WIRE, WYE
AMPS 600
MAIN CIRCUIT BREAKER
GROUND BUS

CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA	CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA
1	250/3	PANEL LP1	66.63	2	150/3	PANEL LP2	31.47
3	250/3	PANEL EV	16.00	4	200/3	SPARE	0.00
5		SPACE ONLY		6		SPACE ONLY	
7		SPACE ONLY		8	50/3	SURGE PROTECTOR	0.00

CONNECTED LOAD	KVA	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
LIGHTS	0.10	125%	0.13	0.35
RECEPTACLES	32.74	50% AFTER 10	21.37	59.32
HEATING	3.00	100%	3.00	8.33
LARGEST MOTOR	6.24	125%	7.80	21.65
OTHER MOTORS	4.31	100%	4.31	11.96
MISCELLANEOUS	67.71	100%	67.71	187.94
KITCH. APPLIANCES	0.00	100%	0.00	0.00
	114.10		104.32	289.55

* PROVIDE GFCI BREAKER
PANEL LP1 I SECTION
LOCATION MAIN ELEC
MOUNTING SURFACE
AIC 65,000
FED FROM LI

VOLTS 208 /120 3 PHASE, 4 WIRE, WYE
AMPS 250
MAIN LUGS ONLY
GROUND BUS
PROVIDE SURGE PROTECTOR

CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA	CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA
1	20/1	RECEPTS POOL	0.72	2	50/2	SAUNA	5.10
3	20/1	RECEPTS POOL	0.54	4			
5	20/1	RECEPTS ELEC 128	0.72	6	30/2	AIR COMPRESSOR	3.00
7	20/1	RECEPTS RISER/CHEMS	0.54	8			
9	20/1	RECEPTS PUMP 126	0.72	10	30/2	PRESSURE WASHER	3.00
11	20/1	RECEPTS PUMP 126	0.54	12			
13	20/1	RECEPTS STORAGE 127/13	0.54	14	30/2	DRYER	5.00
15	20/1	WASHER	0.30	16			
17	20/1	WH-1	1.50	18	40/2	PW-1	12.48
19	20/1	WH-3	1.50	20			
21	20/1	GF-1	0.86	22	20/3	PUMP CONTROL PANEL	1.11
23	15/1	CP-1, CP-2	0.20	24			
25	25/1	GENERATOR HEATER	1.50	26			
27	20/1	GEN BATTERY CHARGER	1.50	28	20/2	EQUIP-4-SWIMMING UV	2.50
29	20/1	SPARE	0.00	30			
31	20/1	SPARE	0.00	32	20/2	EQUIP-10-ACTIVITY UV	1.50
33	20/1	SPARE	0.00	34			
35	20/1*	SCOREBOARD	0.72	36	20/2	EQUIP-14-HYDRO UV	1.50
37	20/1*	SCOREBOARD	0.72	38			
39	20/1*	SCOREBOARD	0.72	40	20/2	EQUIP-18A-POOL GEN SYS	1.00
41	20/1*	SCOREBOARD	0.72	42			
43	20/1*	SCOREBOARD	0.72	44	20/2	EQUIP-18B-POOL GEN SYS	1.00
45	20/1*	SCOREBOARD	0.72	46			
47	20/1*	SCOREBOARD	0.72	48	20/2	EQUIP-19-ACT GEN SYS	1.00
49	20/2	TP CO2 FEED SYS	1.00	50			
51				52	20/2	EQUIP-20-HYDRO GEN SYS	1.00
53	20/2	SPA CO2 FEED SYS	1.00	54			
55				56	20/1	EQUP-25A-FILL STATION	0.50
57	20/2	HS CO2 FEED SYS	1.00	58	20/1	EQUP-25B-FILL STATION	0.50
59				60	20/2	EQUP-29-ACT FEAT UV	1.50
61	20/1	SP HEAT EX RELAY	0.72	62			
63	20/1	AP HEAT EX RELAY	0.72	64	20/1	SPARE	0.00
65	20/1	HS HEAT EX RELAY	0.72	66	20/1	SPARE	0.00
67	20/1	SP CHEM RELAY	0.72	68	20/1	SPARE	0.00
69	20/1	AP CHEM RELAY	0.72	70		SPACE ONLY	
71	20/1	HS CHEM RELAY	0.72	72		SPACE ONLY	
73	20/1	SP CIRC PMP INTERCONN	0.72	74		SPACE ONLY	
75	20/1	AP CIRC PMP INTERCONN	0.72	76		SPACE ONLY	
77	20/1	HS CIRC PMP INTERCONN	0.72	78		SPACE ONLY	
79		SPACE ONLY		80	30/3	SURGE PROTECTOR	0.00
81		SPACE ONLY		82			
83		SPACE ONLY		84			

CONNECTED LOAD	KVA	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
LIGHTS	0.10	125%	0.13	0.35
RECEPTACLES	8.10	100%	8.10	22.48
HEATING	3.00	100%	3.00	8.33
LARGEST MOTOR	6.24	125%	7.80	21.65
OTHER MOTORS	4.31	100%	4.31	11.96
MISCELLANEOUS	44.88	100%	44.88	124.57
KITCH. APPLIANCES	0.00	65%	0.00	0.00
	66.63		68.22	189.35

*PROVIDE GFCI BREAKER
** NO LOAD FOR DEDUCTIVE ALTERNATE #1
*** NO LOAD FOR DEDUCTIVE ALTERNATE #2
PANEL LP2 I SECTION
LOCATION AQ DIR
MOUNTING FLUSH
AIC 30,000
FED FROM LI

VOLTS 208 /120 3 PHASE, WYE
AMPS 150
MAIN LUGS ONLY
GROUND BUS
PROVIDE FLUSH SURGE PROTECTOR

CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA	CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA
1	20/1	RECEPTS LOBBY EAST	0.72	2	20/1	HAIR DRYER WOMENS	0.50
3	20/1	RECEPTS LOBBY EAST	0.36	4	20/1	HAIR DRYER WOMENS	0.50
5	20/1	RECEPTS PARK ADMIN 104	0.72	6	20/1	SUIT SPINNER WOMENS	0.50
7	20/1	RECEPTS PARK ADMIN 104	0.90	8	20/1	HAIR DRYER UNV	0.50
9	20/1	RECEPTS DIR 105	1.08	10	20/1	HAIR DRYER UNV	0.50
11	20/1***	RECEPTS PARS BUS 106	1.08	12	20/1	ADA MOTOR UNV	0.30
13	20/1***	RECEPTS MEETING 103	1.26	14	20/1	RECEPTS WOMENS	0.72
15	20/1	RECEPTS FITNESS 108	0.90	16	20/1	RECEPTS UNV	1.08
17	20/1	RECEPTS FITNESS 108	0.90	18	20/1	RECEPT MAIN 117B	0.36
19	20/1	RECEPTS EAST HALL 107	0.90	20	20/1	SUIT SPINNER MENS	0.50
21	20/1	RECEPTS STORAGE /WC	0.54	22	20/1	HAIR DRYER MENS	0.50
23	20/1**	FITNESS AV RACK	0.80	24	20/1	HAIR DRYER MENS	0.50
25	20/1**	RECEPTS MULTI ROOM 1	1.08	26	20/1	RECEPTS MENS	0.54
27	20/1**	RECEPTS MONITORS	1.00	28	20/1	RECEPTS IND FOREST	0.72
29	20/1**	RECEPTS MULTI ROOM 2	1.08	30	20/1*	DRINKING FOUNTAIN	0.30
31	20/1	FIRE ALARM CONTROL PAN	0.50	32	20/1	RECEPTS AQ DIR 114	0.74
33	20/1	SPARE	0.00	34	20/1	RECEPTS AQ DIR 114	1.08
35	20/1	SPARE	0.00	36	20/1*	REFRIG. 122	0.00
37	20/1	SPACE ONLY		38	20/1*	RECEPTS LIFEGUARDS 122	0.36
39	20/1	SPACE ONLY		40	20/1*	RECEPTS LIFEGUARDS 122	0.72
41	20/1	SPACE ONLY		42	20/1	RECEPTS LIFEGUARDS 122	0.90
43	20/1	SPACE ONLY		44	20/1	RECEPTS MDF 123	0.36
45	20/1	SPACE ONLY		46	20/1	RECEPTS MDF 123	0.36
47	20/1	SPACE ONLY		48	20/1	RECEPTS MDF 123	0.36
49	20/1	SPACE ONLY		50	20/1	ACCESS CONTROL PANEL	0.20
51	20/1	SPACE ONLY		52	20/1	SECURITY PANEL	0.20
53	20/1	SPACE ONLY		54	20/1	RECEPTS LOBBY WEST	0.90
55	20/1	SPACE ONLY		56	20/1	RECEPTS LOBBY MONITOR	0.18
57	20/1	SPACE ONLY		58	20/1	RECEPTS LOBBY RECEPT	0.72
59	20/1	SPACE ONLY		60	20/1	PARKING RECEPT EAST	0.36
61	20/1	SPACE ONLY		62	20/1	PARKING RECEPT WEST	0.36
63	20/1	SPACE ONLY		64	20/1	DOOR POWER SUPPLY	0.20
65	20/1	SPACE ONLY		66	20/1	WH-2	
67	20/1	SPACE ONLY		68	20/1	DWBP-1	
69	20/1	SPACE ONLY		70	20/1	SPACE ONLY	
71	20/1	SPACE ONLY		72	20/1	SPACE ONLY	
73	20/1	SPACE ONLY		74	20/1	SPACE ONLY	
75	20/1	SPACE ONLY		76	20/1	SPACE ONLY	
77	20/1	SPACE ONLY		78	20/1	SPACE ONLY	
79	20/1	SPACE ONLY		80	30/3	SURGE PROTECTOR	
81	20/1	SPACE ONLY		82			
83	20/1	SPACE ONLY		84			

CONNECTED LOAD	KVA	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
LIGHTS	0.00	125%	0.00	0.00
RECEPTACLES	24.64	100%	24.64	68.39
HEATING	0.00	100%	0.00	0.00
LARGEST MOTOR	0.00	125%	0.00	0.00
OTHER MOTORS	0.00	100%	0.00	0.00
MISCELLANEOUS	6.83	100%	6.83	18.96
KITCH. APPLIANCES	0.00	65%	0.00	0.00
	31.47		31.47	87.35

PANEL EV I SECTION
LOCATION MAIN ELEC
MOUNTING SURFACE
AIC 65,000
FED FROM LI

VOLTS 208 /120 3 PHASE, 4 WIRE, WYE
AMPS 250
MAIN LUGS ONLY
GROUND BUS
PROVIDE SURGE PROTECTOR

CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA	CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA
1	50/2	DUAL EV CHARGER	8.00	2	50/2	ADA EV CHARGER	8.00
3				4			
5	50/2	SPARE-FUTURE EV CHARGE	0.00	6	50/2	SPARE-FUTURE EV CHARGE	0.00
7				8			
9	50/2	SPARE-FUTURE EV CHARGE	0.00	10	50/2	SPARE-FUTURE EV CHARGE	0.00
11				12			
13	50/2	SPARE-FUTURE EV CHARGE	0.00	14	50/2	SPARE-FUTURE EV CHARGE	0.00
15				16			
17	50/2	SPARE-FUTURE EV CHARGE	0.00	18	20/1	SPACE ONLY	
19				20	20/1	SPACE ONLY	
21	20/1	SPACE ONLY		22	20/1	SPACE ONLY	
23	20/1	SPACE ONLY		24	20/1	SPACE ONLY	
25	20/1	SPACE ONLY		26	20/1	SPACE ONLY	
27	20/1	SPACE ONLY		28	20/1	SPACE ONLY	
29	20/1	SPACE ONLY		30	20/1	SPACE ONLY	
31	20/1	SPACE ONLY		32	20/1	SPACE ONLY	
33	20/1	SPACE ONLY		34	20/1	SPACE ONLY	
35	20/1	SPACE ONLY		36	20/1	SPACE ONLY	
37	20/1	SPACE ONLY		38	20/1	SPACE ONLY	
39	20/1	SPACE ONLY		40	20/1	SPACE ONLY	
41	20/1	SPACE ONLY		42	20/1	SPACE ONLY	

CONNECTED LOAD	KVA	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
LIGHTS	0.00	125%	0.00	0.00
RECEPTACLES	0.00	100%	0.00	0.00
HEATING	0.00	100%	0.00	0.00
LARGEST MOTOR	0.00	125%	0.00	0.00
OTHER MOTORS	0.00	100%	0.00	0.00
MISCELLANEOUS	16.00	100%	16.00	44.41
KITCH. APPLIANCES	0.00	65%	0.00	0.00
	16.00		16.00	44.41

PANEL MP I SECTION
LOCATION EXT PMP
MOUNTING SURFACE
AIC 22,000
FED FROM SITE PANEL

VOLTS 208 /120 3 PHASE, 4 WIRE, WYE
AMPS 100
MAIN CIRCUIT BREAKER
GROUND BUS
NEMA 3R

CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA	CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA
1		SPACE ONLY-FOR FUTURE		2		SPACE ONLY-FOR FUTURE	
3		SPACE ONLY-FOR FUTURE		4		SPACE ONLY-FOR FUTURE	
5		SPACE ONLY-FOR FUTURE		6		SPACE ONLY-FOR FUTURE	
7		SPACE ONLY-FOR FUTURE		8		SPACE ONLY-FOR FUTURE	
9		SPACE ONLY-FOR FUTURE		10		SPACE ONLY-FOR FUTURE	
11		SPACE ONLY-FOR FUTURE		12		SPACE ONLY-FOR FUTURE	
13		SPACE ONLY-FOR FUTURE		14		SPACE ONLY-FOR FUTURE	
15		SPACE ONLY-FOR FUTURE		16		SPACE ONLY-FOR FUTURE	
17		SPACE ONLY-FOR FUTURE		18		SPACE ONLY-FOR FUTURE	
19		SPACE ONLY-FOR FUTURE		20		SPACE ONLY-FOR FUTURE	
21		SPACE ONLY-FOR FUTURE		22		SPACE ONLY-FOR FUTURE	
23		SPACE ONLY-FOR FUTURE		24		SPACE ONLY-FOR FUTURE	
25	60/3	WELL #2 PUMP	10.00	26	50/3	PANEL MT	9.42
27				28			
29				30			

CONNECTED LOAD	KVA	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
LIGHTS	0.50	125%	0.63	1.73
RECEPTACLES	0.72	100%	0.72	2.00
HEATING	4.00	100%	4.00	11.10
LARGEST MOTOR	10.00	125%	12.50	34.70
OTHER MOTORS	2.70	100%	2.70	7.49
MISCELLANEOUS	1.50	100%	1.50	4.16
KITCH. APPLIANCES	0.00	65%	0.00	0.00
	19.42		22.05	61.19

PANEL MT I SECTION
LOCATION TREATMENT BLDG
MOUNTING SURFACE
AIC 10,000
FED FROM MP

VOLTS 208 /120 3 PHASE, 4 WIRE, WYE
AMPS 50
MAIN CIRCUIT BREAKER
GROUND BUS

CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA	CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA
1	20/1	LIGHTS	0.50	2	20/1	PUMPS	1.00
3	20/1	FILTER SYSTEM CP	0.50	4	20/1	PUMPS	1.00
5	20/1	BACKWASH METER PANEL	0.50	6	20/1	CHLORINE ANALYZER PANE	0.50
7	20/1	EF-7	0.70	8	20/1	RECEPTS	0.72
9	25/2	WH-1	4.00	10	20/1	SPARE	0.00
11			0.00	12	20/1	SPARE	0.00
13		SPACE ONLY		14		SPACE ONLY	
15		SPACE ONLY		16		SPACE ONLY	
17		SPACE ONLY		18		SPACE ONLY	
19		SPACE ONLY		20		SPACE ONLY	
21		SPACE ONLY		22		SPACE ONLY	
23		SPACE ONLY		24		SPACE ONLY	
25		SPACE ONLY		26		SPACE ONLY	
27		SPACE ONLY		28		SPACE ONLY	
29		SPACE ONLY		30		SPACE ONLY	

CONNECTED LOAD	KVA	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
LIGHTS	0.50	125%	0.63	1.73
RECEPTACLES	0.72	100%	0.72	2.00
HEATING	4.00	100%	4.00	11.10
LARGEST MOTOR	1.00	125%	1.25	3.47
OTHER MOTORS	1.70	100%	1.70	4.72
MISCELLANEOUS	1.50	100%	1.50	4.16
KITCH. APPLIANCES	0.00	65%	0.00	0.00
	9.42		9.80	27.19

PANEL RP I SECTION
LOCATION RES PMP
MOUNTING SURFACE
AIC 22,000
FED FROM RESEVOIR

VOLTS 208 /120 3 PHASE, 4 WIRE, WYE
AMPS 50
MAIN CIRCUIT BREAKER
GROUND BUS

CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA	CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA
1	20/1	SETPOINT CONTROL PANEL	0.50	2	20/1	PUMP HOUSE LIGHTS	0.20
3		SPACE ONLY		4		SPACE ONLY	
5		SPACE ONLY		6		SPACE ONLY	
7		SPACE ONLY		8		SPACE ONLY	
9		SPACE ONLY		10		SPACE ONLY	
11		SPACE ONLY		12		SPACE ONLY	
13		SPACE ONLY		14		SPACE ONLY	
15		SPACE ONLY		16		SPACE ONLY	
17		SPACE ONLY		18		SPACE ONLY	
19		SPACE ONLY		20		SPACE ONLY	
21		SPACE ONLY		22		SPACE ONLY	
23		SPACE ONLY		24		SPACE ONLY	
25		SPACE ONLY		26		SPACE ONLY	
27		SPACE ONLY		28		SPACE ONLY	
29		SPACE ONLY		30		SPACE ONLY	

CONNECTED LOAD	KVA	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
LIGHTS	0.20	125%	0.25	0.69
RECEPTACLES	0.00	100%	0.00	0.00
HEATING	0.00	100%	0.00	0.00
LARGEST MOTOR	0.00	125%	0.00	0.00
OTHER MOTORS	0.00	100%	0.00	0.00
MISCELLANEOUS	0.50	100%	0.50	1.39
KITCH. APPLIANCES	0.00	65%	0.00	0.00
	0.70		0.75	2.08

PANEL LS I SECTION
LOCATION SITE-LOSS
MOUNTING SURFACE
AIC 10,000
FED FROM MAINT FAC

VOLTS 208 /120 1 PHASE, 3 WIRE
AMPS 100
MAIN CIRCUIT BREAKER
GROUND BUS
NEMA 3R

CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA	CCT NO.	CCT BRKR	DESCRIPTION	LOAD KVA
1	20/1	RECEPT	0.18	2	30/2	PUMP CONTROLLER	5.00
3	20/2	BLOWER	1.00	4			
5				6		SPACE ONLY	
7	20/2	BLOWER	1.00	8		SPACE ONLY	
9				10		SPACE ONLY	
11	20/2	BLOWER	1.00	12		SPACE ONLY	
13				14		SPACE ONLY	
15		SPACE ONLY		16		SPACE ONLY	
17		SPACE ONLY		18		SPACE ONLY	
19		SPACE ONLY		20		SPACE ONLY	
21		SPACE ONLY		22		SPACE ONLY	
23		SPACE ONLY		24		SPACE ONLY	
25		SPACE ONLY		26		SPACE ONLY	
27		SPACE ONLY		28		SPACE ONLY	
29		SPACE ONLY		30		SPACE ONLY	

CONNECTED LOAD	KVA	DEMAND FACTOR	DEMAND LOAD KVA	AMPS
LIGHTS	0.00	125%	0.00	0.00
RECEPTACLES	0.18	100%	0.18	0.87
HEATING	0.00	100%	0.00	0.00
LARGEST MOTOR	5.00	125%	6.25	30.05
OTHER MOTORS	3.00	100%	3.00	14.42
MISCELLANEOUS	0.00	100%	0.00	0.00
KITCH. APPLIANCES	0.00	65%	0.00	0.00
	8.18		9.43	45.34

ISLAND COUNTY
Reviewed For
2021 IBC
Code Compliance
07/18/2025
Brian Boyle

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SEATTLE, WA 98104-2579
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TFWB ENGINEERS
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1200 Westlake Ave. N., #509
Seattle, WA 98109
p: 206-285-7228 | info@tf-wb.com

S WHIDBEY PARKS & REC
AQUATIC REC CENTER

PID 812720 MAXWELTON RD
LANGLEY, WA 98260

South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE

Rev #	Date	Description

CONTENTS:
PANEL SCHEDULES

SCALE: AS SHOWN
DRAWN: AS, EL
CHECKED: AB
PROJECT NO: 2022021.000

SHEET:
E8.4

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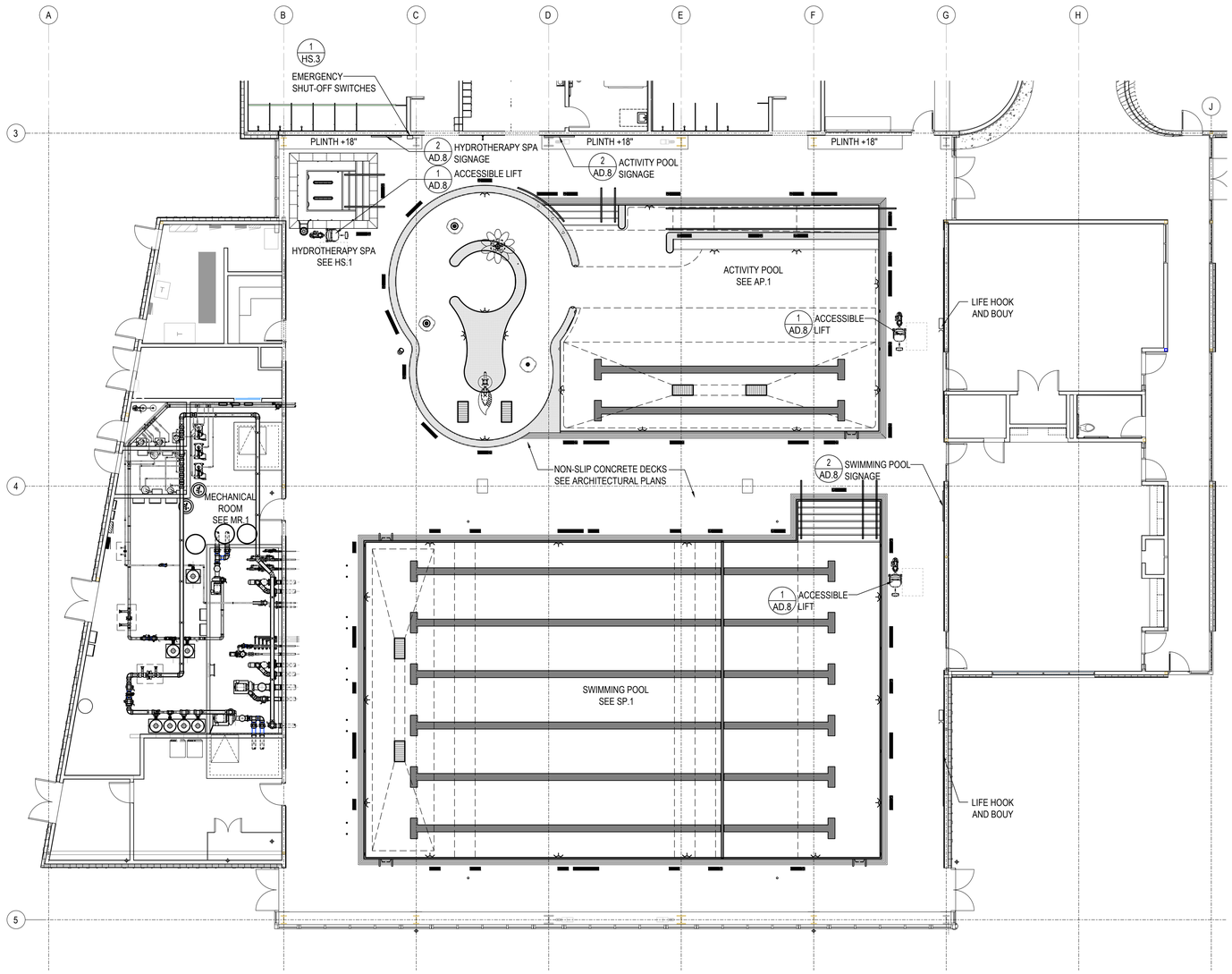

SWIMMING POOL DATA

SURFACE AREA	=	3,501 SQ. FT.
PERIMETER	=	250 FT.
DEPTH	=	4'-0" TO 8'-6"
VOLUME	=	157,277 GAL.
6 HR TURNOVER	=	436 GPM

ACTIVITY POOL DATA

SURFACE AREA	=	2,269 SQ. FT.
PERIMETER	=	198 FT.
DEPTH	=	0'-0" TO 4'-0"
VOLUME	=	51,427 GAL.
4 HR TURNOVER	=	214 GPM

HYDROTHERAPY SPA DATA

SURFACE AREA	=	100 SQ. FT.
PERIMETER	=	40 FT.
DEPTH	=	3'-6"
VOLUME	=	1,593 GAL.
30 MIN. TURNOVER	=	53 GPM

DEFERRED APPROVAL

WATER TOY ELEMENTS ARE BY WATERPLAY SOLUTIONS AND ARE A DEFERRED APPROVAL ITEM. THE POOL CONTRACTOR SHALL SUBMIT THE MANUFACTURER'S SHOP DRAWINGS AND FOOTING STRUCTURAL CALCULATIONS TO THE OWNER, ARCHITECT AND CITY BUILDING DEPARTMENT FOR REVIEW AND APPROVAL. THE SHOP DRAWINGS AND CALCS SHALL BE PREPARED BY A STRUCTURAL ENGINEER LICENSED IN WASHINGTON. ALL STEEL COMPONENTS SHALL BE STAINLESS STEEL AND PAINTED UNLESS OTHERWISE NOTED.

ISLAND COUNTY
Reviewed For
2021 IBC
Code Compliance
07/18/2025
Brian Boyle

NORTH

1 AQUATIC AREA PLAN 1/8"=1'-0"

a|r|c
architecture resource | collaborative
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SEATTLE, WA 98104-2579
(206) 322-3322

AQUATIC DESIGN GROUP
2226 Faraday Ave. Carlsbad, CA 92008
AquaticDesignGroup.com
760.438.8400

MARCELLA B. MONTGOMERY
STATE OF WASHINGTON
22008425
REGISTERED
PROFESSIONAL ENGINEER

SOUTH WHIDBEY PARKS AQUATIC CENTER

PID 812720 MAXWELTON RD
LANGLEY, WA 98260

South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description

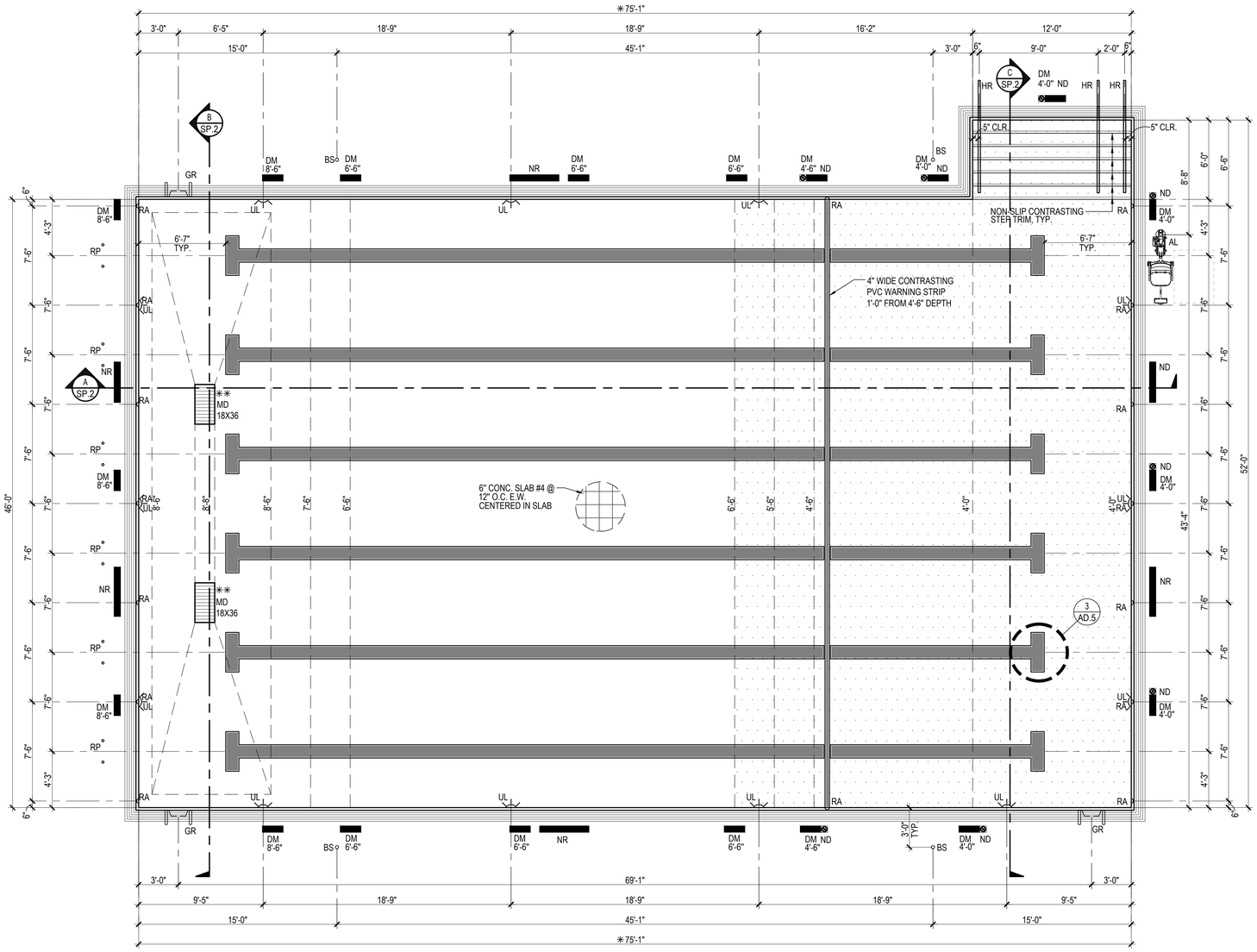
CONTENTS:

AQUATIC AREA PLAN

SCALE: As indicated
DRAWN: KK/AP
CHECKED: SF
PROJECT NO: 2022021.000

SHEET:

SP.0



SWIMMING POOL DATA

SURFACE AREA	=	3,501 SQ. FT.
PERIMETER	=	250 FT.
DEPTH	=	4'-0" TO 8'-6"
VOLUME	=	157,277 GAL.
6 HR TURNOVER	=	436 GPM

LEGEND

HR	=	HANDRAIL	5 AD.3
DM	=	DEPTH MARKER	4 AD.5
ND	=	NO DIVING	5-6 AD.5
NR	=	NO RUNNING	5 AD.5
MD	=	MAIN DRAIN	1 AD.6
UL	=	UNDERWATER LIGHT	1 AD.7
AL	=	ACCESSIBLE LIFT	1 AD.8
RP	=	RACING PLATFORM	9 AD.5
RA	=	ROPE ANCHOR	6 AD.1
GR	=	GRAB RAIL	7 AD.4
BS	=	BACKSTROKE STANCHION	7 AD.5
	=	NON-SLIP PVC FINISH	

GENERAL NOTES

1. SWIMMING POOL PVC/VINYL FINISH IS WHITE IN COLOR.
2. 6" WATERLINE AND HANDHOLD IS CONTRASTING COLOR TO THE POOL FINISH, AROUND THE ENTIRE POOL PERIMETER.
3. ALL MARKERS LOCATED ON THE DECK SHALL BE SLIP RESISTANT. SLIP RESISTANT IS CONSIDERED A WET COEFFICIENT OF FRICTION OF 0.6 OR GREATER AND SHALL BE FLUSH WITH THE POOL DECK FINISH.
4. PROVIDE EQUIPOTENTIAL BONDING ON ALL METALLIC POOL WALL PANELS TO CONCRETE FLOOR AND DECK REINFORCEMENT PER 3/AD.7.
5. POOL DECK MARKERS SHALL BE LOCATED AROUND POOL PERIMETER AND WATER LINE AT SPACING NOT TO EXCEED 25'-0".

CERTIFICATION REQUIREMENTS

✳ THE CONTRACTOR SHALL RETAIN AN INDEPENDENT LICENSED SURVEYOR TO PROVIDE USA SWIMMING CERTIFICATION OF COMPLIANCE FOR REQUIRED POOL LENGTHS AS FOLLOWS: (RECOMMEND PATRELL ENG. GROUP (626) 335-4362)

SHORT COURSE-25YDS: (ALLOWS FOR TOUCH PADS AT ONE END) 75'-0 5/16" MIN.: 75'-1 5/16" MAX.

TOLERANCE AGAINST LENGTH,SHALL EXTEND IN A VERTICAL PLANE 0.3M (12") ABOVE AND 0.8M. (2'-7½") BELOW THE SURFACE OF THE WATER AT ALL POINTS OF BOTH END WALLS TYP. OF ALL COURSES.

THE INDEPENDENT LICENSED SURVEYOR SHALL FILL OUT, NOTARIZE AND FILE OFFICIAL CERTIFICATION FORM(S) WITH USA SWIMMING.

✳✳ CONTRACTOR SHALL RETAIN A LICENSED ENGINEER TO CERTIFY THE FIELD BUILT MAIN DRAIN SYSTEMS AS V.G.B. COMPLIANT.

ISLAND COUNTY
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1 SWIMMING POOL LAYOUT PLAN 1/4"=1'-0"

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PROFESSIONAL ENGINEER

SOUTH WHIDBEY PARKS AQUATIC CENTER

PID 812720 MAXWELTON RD
LANGLEY, WA 98260

South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE		
Rev #	Date	Description

CONTENTS:
SWIMMING POOL LAYOUT

SCALE: As Indicated
DRAWN: KK/AP
CHECKED: SF
PROJECT NO: 2022021.000

SHEET:
SP.1

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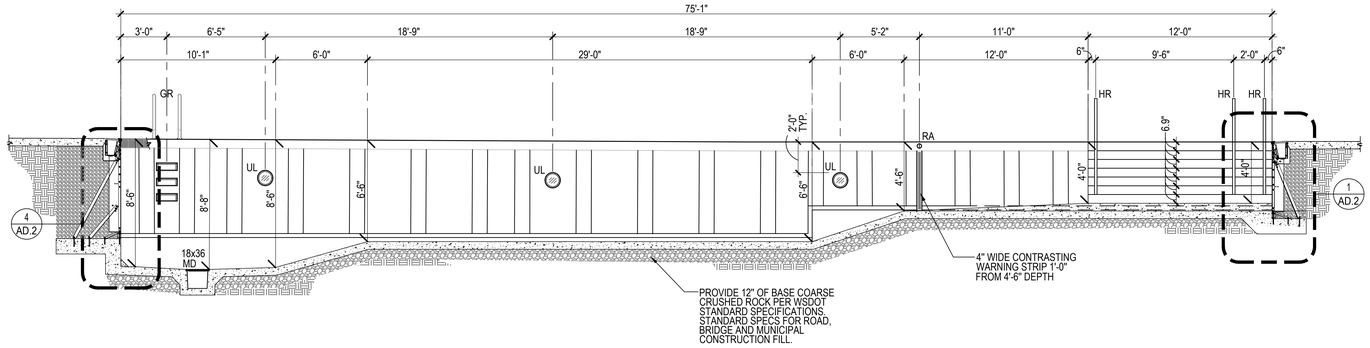
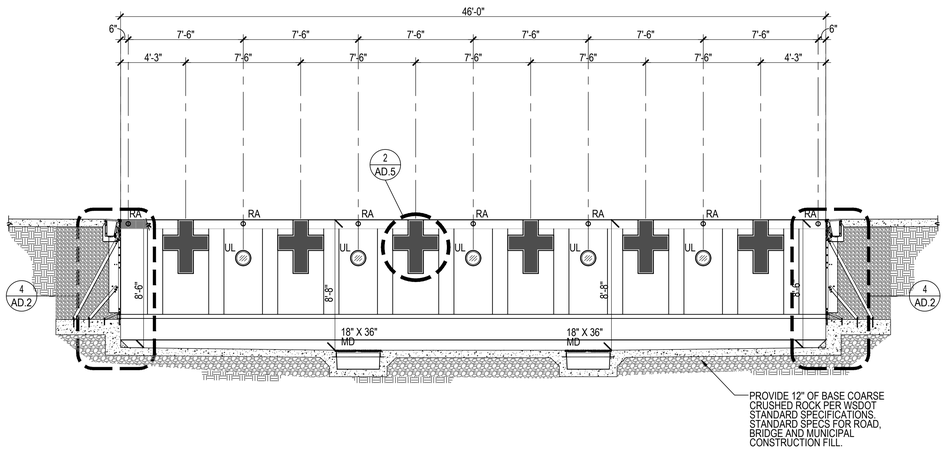
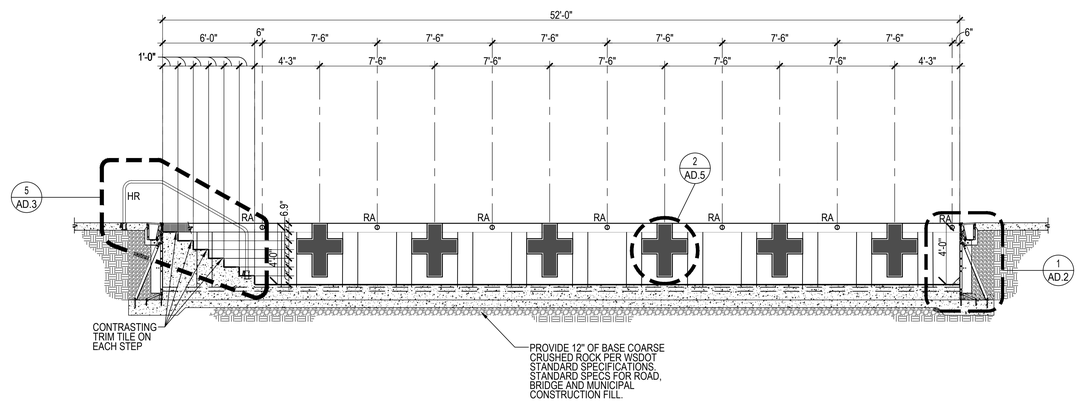


A **SWIMMING POOL SECTION** 1/4"=1'-0"



B **SWIMMING POOL SECTION** 1/4"=1'-0"



C **SWIMMING POOL SECTION** 1/4"=1'-0"

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SWIMMING POOL SECTIONS

SCALE:	As Indicated
DRAWN:	KK/AP
CHECKED:	SF
PROJECT NO:	2022021.000

SHEET:

SP.2

ACTIVITY POOL DATA

SURFACE AREA	=	2,269 SQ. FT.
PERIMETER	=	198 FT.
DEPTH	=	0'-0" TO 4'-0"
VOLUME	=	51,427 GAL.
4 HR TURNOVER	=	214 GPM

ACTIVITY POOL SURGE DATA

REQUIRED SURGE CAPACITY	=	2,269 GAL.
SURGE IN PERIMETER GUTTER	=	535 GAL.
6' x 6' x 8' SURGE IN SURGE CHAMBER	=	2,154 GAL.
TOTAL SUPPLIED SURGE	=	2,689 GAL.

∴ 2,689 GAL. > 2,269 GAL. OK

SWIMMING POOL DATA

SURFACE AREA	=	3,501 SQ. FT.
PERIMETER	=	250 FT.
DEPTH	=	4'-0" TO 8'-6"
VOLUME	=	157,277 GAL.
6 HR TURNOVER	=	436 GPM

SWIMMING POOL SURGE DATA

REQUIRED SURGE CAPACITY	=	3,501 GAL.
SURGE IN PERIMETER GUTTER	=	1,023 GAL.
10' x 6' SURGE IN SURGE CHAMBER	=	2,693 GAL.
TOTAL SUPPLIED SURGE	=	3,715 GAL.

∴ 3,715 GAL. > 3,501 GAL. OK

HYDROTHERAPY SPA DATA

SURFACE AREA	=	100 SQ. FT.
PERIMETER	=	40 FT.
DEPTH	=	3'-6"
VOLUME	=	1,593 GAL.
30 MIN. TURNOVER	=	53 GPM

LEGEND

MD	=	MAIN DRAIN — 1 AD.6
FI	=	FLOOR INLET — 2 AD.6
GO	=	GUTTER OUTLET — 5 AD.1
AV	=	AIR VENT — 3 AD.6
RJ	=	RIVER JET — 4 AD.9
VR	=	VORTEX RETURN — 5 AD.9
WI	=	WALL INLET — 1 AD.12
SP	=	SWIMMING POOL
AP	=	ACTIVITY POOL
HS	=	HYDROTHERAPY SPA

GENERAL NOTES

3 HS.3

1. PIPING ROUTES ARE SCHEMATIC IN NATURE AND SHOWN ON PLANS FOR CLARITY. CONTRACTOR SHALL ROUTE PIPING ACCORDINGLY TO MEET NOTED PIPE SLOPE REQUIREMENTS WHILE COORDINATING WITH BUILDING FOOTINGS, UTILITIES, AND ALL TRADES. REFER TO REFERENCED DETAIL FOR PIPE SPACING REQUIREMENTS.
2. ALL BELOW GRADE POOL PIPING SHALL BE SCHEDULE 40 PVC AND ALL ABOVE GRADE POOL PIPING SHALL BE SCHEDULE 80 PVC.
3. COORDINATE ALL PIPING WITH SITE AND BUILDING UTILITIES INCLUDING PIPING, CONDUITS / STRUCTURES AND THE LIKE. COORDINATE ROUTING OF PIPING THROUGH STRUCTURAL SLAB. ALL PIPING SHALL HAVE UNIFORM SLOPE IN ONE DIRECTION.

7 MR.7

4. SURGE CHAMBER FLANGE SUCTION SHALL BE SET AT +3" A.F.F. MAINTAIN MAXIMUM SEPARATION BETWEEN SUCTION AND INFLUENT PIPING WITHIN THE SURGE CHAMBER.
5. EACH MAIN DRAIN SHALL BE EQUIPPED WITH HYDROSTATIC RELIEF VALVE PER RECOMMENDATIONS OF GEOTECHNICAL REPORT
6. CONTRACTOR TO INSTALL AND PRESSURE TEST THE DEPTH CHARGE AIR TUBING SYSTEM PER THE MANUFACTURER'S INSTALLATION GUIDELINES. CONTRACTOR TO PROVIDE DEPTH CHARGE MANIFOLD SYSTEM WITHIN MECHANICAL ROOM ADJACENT TO COMPRESSOR TANK. COORDINATE AIR TUBING W/ ALL PLUMBING ROUTES
7. CONTRACTOR TO FIELD COORDINATE ALL SURGE CHAMBER AND PUMP PIT PENETRATIONS. COORDINATE ALL PENETRATIONS WITH EQUIPMENT REQUIREMENTS, PIPE SLOPES, FOOTINGS, FIELD CONDITIONS AND ALL TRADES.

PRODUCT LEGEND

	PRODUCT CODE	QTY	TOTAL FLOW	INLET SIZ	DETAIL
A	DEPTH CHARGE 'SPLASHTACULAR'	3	-	-	6 AD.9
B	DEPTH CHARGE ACTIVATOR 'SPLASHTACULAR'	-	-	-	7 AD.9
C	LEAFLET (0011-4271) 'WATERPLAY'	1	8	1½"	3 AD.9
D	DAISY MAE (0011-4265) 'WATERPLAY'	1	5	1½"	2 AD.9
E	SPLIT SPURT (0010-7482) 'WATERPLAY'	3	4.5	1"	2 AD.12
	WATER FEATURE TOTAL		17.5 GPM		

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MICHELLE M. MONTGOMERY
STATE OF WASHINGTON
EXPIRES: 10/10/2025

CITY AND COUNTY
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Code Compliance
07/18/2025
Brian Boyle

SOUTH WHIDBEY PARKS AQUATIC CENTER

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LANGLEY, WA 98260

South Whidbey PARKS & RECREATION DISTRICT

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OVERALL PLUMBING PLAN

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CHECKED: SF
PROJECT NO.: 2022021.000

SHEET:

SP.3

1 OVERALL PLUMBING PLAN 1/8"=1'-0"

TIMING SYSTEM NOTES/EQUIPMENT

NOTE: THE CONTRACTOR SHALL SUPPLY AND INSTALL DECK PLATE BOXES, WALL PLATE BOXES, WALL PLATE JUNCTION BOXES, CONDUIT, WIRING, SCOREBOARD AND ALL TIMING EQUIPMENT AS SHOWN FOR THE 'COLORADO' TIME SYSTEM OR EQUAL.

TIMING SYSTEM

QTY	MODEL	DESCRIPTION
(A) 1	GEN7-TMR	INTUITIVE SOFTWARE INTERFACE WITH MODERN WINDOWS USER INTERFACE AND TOUCHSCREEN FRIENDLY. FLEXIBLE USER INTERFACE OPTIONS WITH ETHERNET CONNECTIVITY TO THE TIMER. ADVANCED DIAGNOSTICS, INTELLIGENT BUS SYSTEM, ROBUST SAFEGUARDS. TIMER WILL CONTINUE TO RUN AND FINISH RACE WITHOUT USER INTERFACE. WET-PLUGGABLE TITANIUM CONNECTIONS. INTEGRATED 2.4 GHz WIRELESS TO SCOREBOARDS, FACILITY NETWORK CONNECTIVITY.
1	R-600-302	GEN7 LAPTOP

START SYSTEM

QTY	MODEL	DESCRIPTION
(B) 1	SS	CHAMPION SERIES START SYSTEM WITH WIRED MICROPHONE, VOLUME CONTROL ON EACH MICROPHONE INPUT, EXTERNAL CONNECTIONS FOR ADDITIONAL STROBE LIGHTS, LED BATTERY INDICATION LIGHT, AC/DC POWER CAPABILITIES AND AN EXTERNAL 360^ STROBE. TRIPOD OR TABLE TOP OPTIONS.
1	START-FPM-2	FLAG POLE MOUNTING KIT FOR STARTER
6	SP-6/45	6 WATT INDIVIDUAL BLOCK SPEAKER

TOUCHPADS

QTY	MODEL	DESCRIPTION
(C) 6	TP-78G	AQUAGRIP GUTTERHUNG TOUCHPADS (78" x 22") US PATENT 5,702,799
1	CAD-TP96	TOUCHPAD CADDY FOR GUTTERHUNG TOUCHPADS. HOLDS UP TO TEN TOUCHPADS. SOME ASSEMBLY REQUIRED.
6	4000-0040	SPECIAL SIZE TOUCHPAD BRACKETS

GEN7 TOUCHPAD SYSTEM

QTY	MODEL	DESCRIPTION
1	TP-GEN7-12	TWELVE-LANE TOUCHPAD SYSTEM FOR THE GEN 7 TIMING SYSTEM (SERIAL) INCLUDES AN TWELVE-LANE CABLE HARNESS, ONE PUSHBUTTON PER LANE+ ONE SPARE, VACUUM PUMP AND TOUCHPAD METER.
1	CHSP-1-12	

GEN7 CABLE

QTY	MODEL	DESCRIPTION
1	R-015-707-8	SCOREBOARD CABLE, 8 METER
1	R-015-715-8	TIMER CABLE, 8 METER
1	R-015-706-8	STARTER CABLE, 8 METER
1	R-015-715-15	TIMER CABLE, 15 METER

GEN7 IN DECK

QTY	MODEL	DESCRIPTION
(D) 6	TDPI-D	TITANIUM DOMED DECK PLATE-INTELLIGENT TITANIUM DECK PLATES REQUIRE A 4" SQUARE OR 4.125" DIAMETER CIRCULAR OPENING AT A MINIMUM. WRITTEN VERIFICATION AND SIGN OFF REQUIRED FROM CUSTOMER. NOTE: INCLUDES 5 YEAR WARRANTY. CTS IS THE ONLY MANUFACTURER OF TITANIUM DECK PLATE.
(2) 1	TDPI-S2	START DECK NODE
(5) 1	TDPI-SC5	SCOREBOARD DECK NODE
(1) 1	R-1004-0549	GEN7 WALL PLATE (15X15)
1	TDPI-K1	KIT-SCOREBOARD BUS HEAD& TAIL NODE INSTALLATION
1	TDPI-K1	KIT-TIMING BUS HEAD & TAIL NODE INSTALLATION
1	WPI-F4	WP-YDS FIBER & LEGACY CONNECT

CONTROLLER

QTY	MODEL	DESCRIPTION
1	WTTC-2	WIRELESS TABLE TOP CONTROLLER
1	CASE-WTTC	CASE FOR THE WIRELESS TABLE TOP CONTROLLER
1	WHC-1	WIRELESS HANDHELD CONTROLLER

ADAPTER

QTY	MODEL	DESCRIPTION
1	WA-3	WIRELESS ADAPTER, 2.4 GHz

RELAY JUDGING PLATFORM

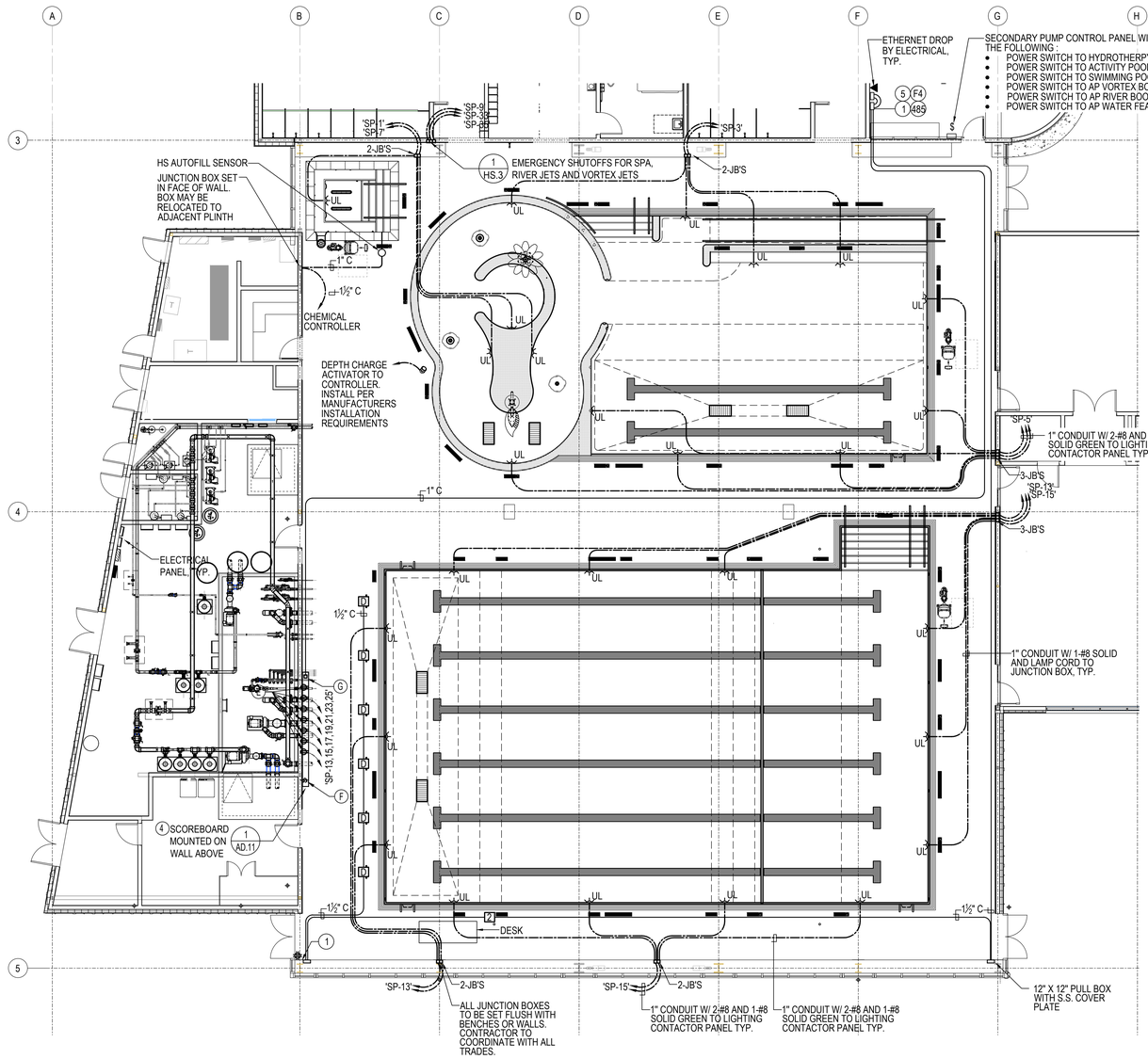
QTY	MODEL	DESCRIPTION
6	RJPL-24x32	CTS RELAY JUDGING PLATFORM 24"x32" W/ BUILT-IN LED LIGHT FOR START
1	CAD-RJPL-2	CADDY- 24" WIDTH RELAY JUDGING PLATFORMS (HOLDS 10)

FULL COLOR VIDEO DISPLAY

QTY	MODEL	DESCRIPTION
(4) 1	SCOREBOARD	PROVIDE LED MATRIX DISPLAY SCOREBOARD INCLUDING ALL POWER REQUIREMENTS, BONDING AND STRUCTURAL SUPPORTS. THE SCOREBOARD SHALL HAVE FULL COLOR AND VIDEO CAPABILITIES. ILD 5.59mm 509W x 252H SMD, FA, ID DISPLAY ACTIVE AREA: 59.1(H) x 118.12(W) (E) PROVIDE SEVEN (7) DEDICATED 20 AMP CIRCUIT TO BE TERMINATED INTO SCOREBOARD LOAD CENTER (F) MASTER ON/OFF SCOREBOARD SWITCH WITH PILOT LIGHT W/ LOCKABLE ENCLOSURE. (G) SCOREBOARD DATA CONNECTION BOX CONNECT CONNECT TO TIMING/WALL BOX LOCATION W/ 1" PVC CONDUIT.

PACE CLOCK

QTY	MODEL	DESCRIPTION
1 2	PC-PRO-R DC-1500 1 PC-PRO AND 2 DC 1500 DECK CLOCKS PER OWNER APPROVAL.	PACE CLOCK - PRO/WATER POLO SHOT CLOCK SPECIFICATIONS: • 4 DIGIT PACE CLOCK • 10" RED DIGITS - VIEWABLE UP TO 400 FEET • HIGH INTENSITY LED - INDOOR/OUTDOOR • "SPLASH-PROOF" PROTECTIVE LENS • INTERNAL RECHARGEABLE BATTERY • INTERNAL HORN • FEET AND HANDLE FUNCTIONS: • SIMPLE PACE CLOCK • CUMULATIVE SPLIT DISPLAY • LAP SPLIT DISPLAY • LAP COUNTER • LAP SPLIT DISPLAY WITH TURN SPEED • RELAY EXCHANGES DISPLAY • START REACTION DISPLAY • HAND TURN SPEED • BREAK OUT SPEED DISPLAY • BREAK OUT SPEED DISPLAY WITH START REACTION • TIME DISPLAY FOR REPETITIVE SETS • SINGLE LANE TIMER • MID-RACE TIMING DISPLAY • WATERPOLO SHOT CLOCK WATERPOLO GAME CLOCK



KEY NOTES

	DESCRIPTION	QUANTITY	UNIT
▼	ETHERNET DROP-BY OTHERS	1	COUNT
F4	WALL PLATE FIBER CONNECTION	1	COUNT
485	WALL PLATE RS-485 CONNECTION	1	COUNT
5	WALL PLATE SCOREBOARD NODE	1	COUNT
5 AD.7 / 1 AD.7	WALL PLATE TIMER NODE	2	COUNT
2 AD.11 / D	TIMING DECK NODE (4"x4"x6" PVC BOX)	6	COUNT
2	START DECK NODE (4"x4"x6" PVC BOX)	1	COUNT
5	SCOREBOARD DECK NODE (4"x4"x6" PVC BOX)	1	COUNT

LEGEND

UL	=	UNDERWATER LIGHT — 1 AD.7, 6 AD.7
JB	=	JUNCTION BOX — 2 AD.7
WP	=	WALL PLATE — 5 AD.7
DP	=	DECK PLATE — 2 AD.11
C	=	CONDUIT

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1 UNDERWATER LIGHT AND TIMING SYSTEM PLAN 1/8"=1'-0"

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UNDERWATER LIGHT AND TIMING SYSTEM PLAN

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CHECKED: SF
PROJECT NO: 2022021.000

SHEET:
SP.4

SWIMMING POOL DATA

SURFACE AREA	=	3,501 SQ. FT.
PERIMETER	=	250 FT.
DEPTH	=	4'-0" TO 8'-6"
VOLUME	=	157,277 GAL.
6 HR TURNOVER	=	436 GPM

GENERAL NOTES

1. CONTRACTOR TO COORDINATE ALL DIMENSIONS WITH SHOP DRAWINGS
2. CONTRACTOR TO COORDINATE WITH MANUFACTURE TO MEET REQUIRED FLOOR TO SLOPE EDGE TRANSITIONS AND SLAB ELEVATION TOLERANCES.
3. ALL CONCRETE FINISHES SHALL MEET MANUFACTURER'S REQUIREMENTS. CONTRACTOR TO COORDINATE WITH MANUFACTURER PRIOR TO CONCRETE PLACEMENT.

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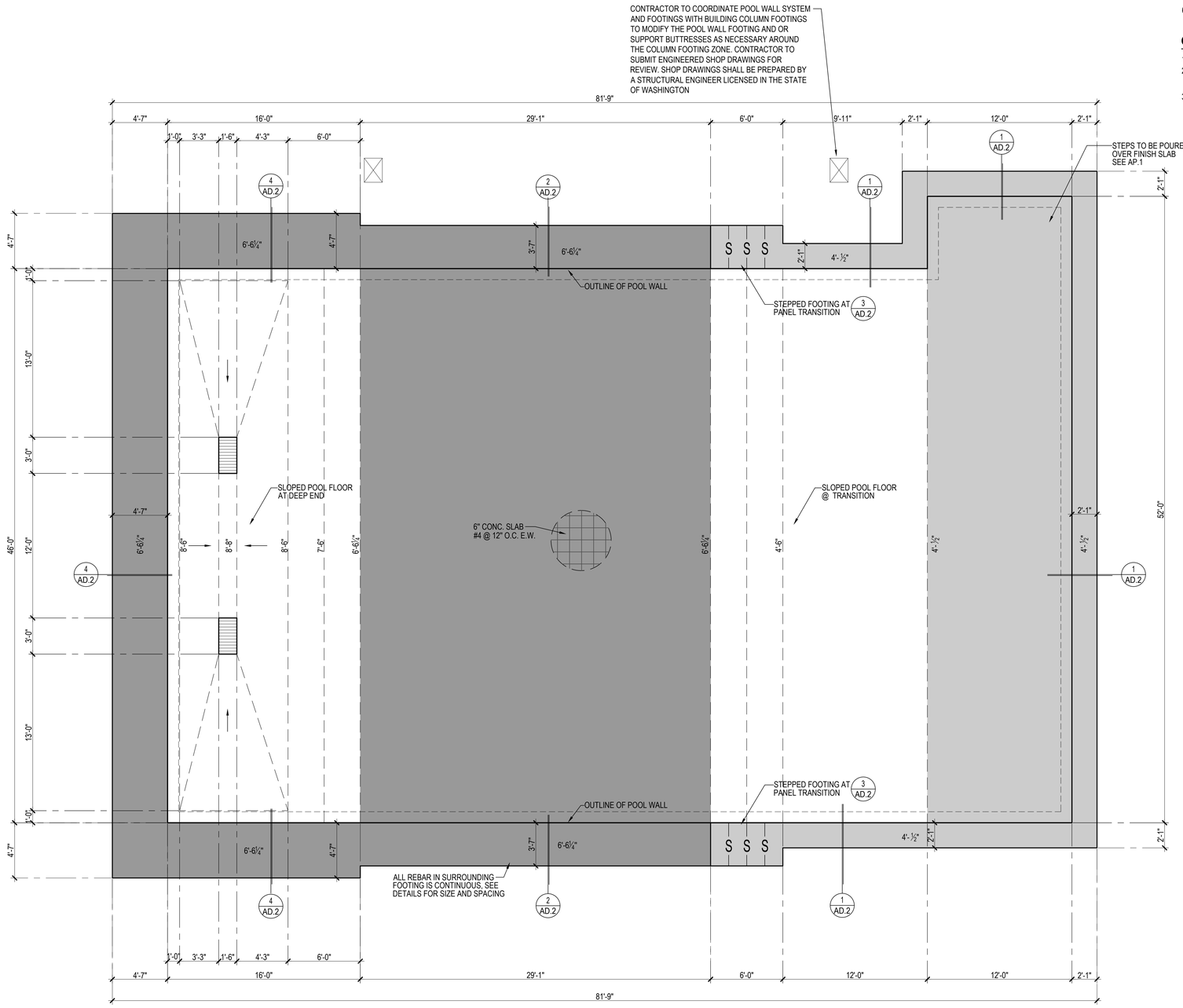

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1 **SWIMMING POOL SLAB PLAN** 1/4"=1'-0"

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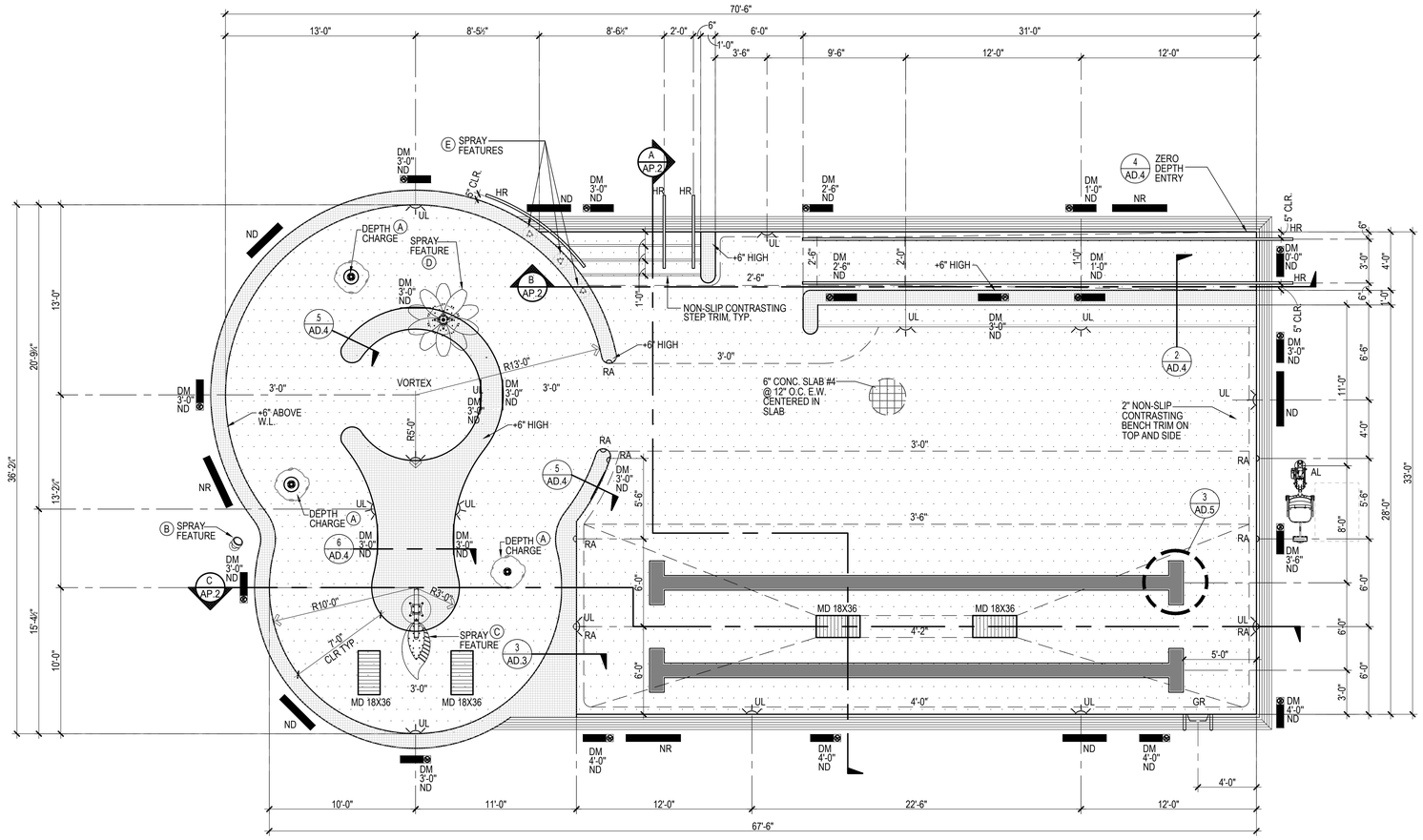

ACTIVITY POOL DATA

SURFACE AREA	=	2,269 SQ. FT.
PERIMETER	=	198 FT.
DEPTH	=	0'-0" TO 4'-0"
VOLUME	=	51,427 GAL.
4 HR TURNOVER	=	214 GPM

LEGEND

HR	=	HANDRAIL — 1 AD.4
DM	=	DEPTH MARKER — 4 AD.5
ND	=	NO DIVING — 5-6 AD.5
NR	=	NO RUNNING — 5 AD.5
MD	=	MAIN DRAIN — 1 AD.6
UL	=	UNDERWATER LIGHT — 1, 6 AD.7
RA	=	ROPE ANCHOR — 6 AD.1
GR	=	GRABRAIL — 7 AD.4
AL	=	ACCESSIBLE LIFT — 1 AD.8
WL	=	WATER LEVEL
	=	NON-SLIP PVC FINISH

GENERAL NOTES

1. SWIMMING POOL PVC/VINYL FINISH IS WHITE IN COLOR.
2. HANDHOLD IS CONTRASTING COLOR TO THE POOL FINISH, AROUND THE ENTIRE POOL PERIMETER.
3. ALL MARKERS LOCATED ON THE DECK SHALL BE SLIP RESISTANT. SLIP RESISTANT IS CONSIDERED A WET COEFFICIENT OF FRICTION OF 0.6 OR GREATER AND SHALL BE FLUSH WITH THE POOL DECK FINISH.
4. PROVIDE EQUIPOTENTIAL BONDING ON ALL METALLIC POOL WALL PANELS TO CONCRETE FLOOR AND DECK REINFORCEMENT PER 3/AD.7.
5. POOL DECK MARKERS SHALL BE LOCATED AROUND POOL PERIMETER AND WATER LINE AT SPACING NOT TO EXCEED 25'-0".

DEFERRED APPROVAL

WATER TOY ELEMENTS ARE BY WATERPLAY SOLUTIONS AND ARE A DEFERRED APPROVAL ITEM. THE POOL CONTRACTOR SHALL SUBMIT THE MANUFACTURER'S SHOP DRAWINGS AND FOOTING STRUCTURAL CALCULATIONS TO THE OWNER, ARCHITECT AND CITY BUILDING DEPARTMENT FOR REVIEW AND APPROVAL. THE SHOP DRAWINGS AND CALCS SHALL BE PREPARED BY A STRUCTURAL ENGINEER LICENSED IN WASHINGTON. ALL STEEL COMPONENTS SHALL BE STAINLESS STEEL AND PAINTED UNLESS OTHERWISE NOTED.

PRODUCT LEGEND

	PRODUCT CODE	QTY	TOTAL FLOW	INLET SIZ	DETAIL
A	DEPTH CHARGE 'SPLASHTACULAR'	3	-	-	6 AD.9
B	DEPTH CHARGE ACTIVATOR 'SPLASHTACULAR'	-	-	-	7 AD.9
C	LEAFLET (0011-4271) 'WATERPLAY'	1	8	1½"	3 AD.9
D	DAISY MAE (0011-4265) 'WATERPLAY'	1	5	1½"	2 AD.9
E	SPLIT SPURT (0010-7482) 'WATERPLAY'	3	4.5	1"	2 AD.12
	WATER FEATURE TOTAL		17.5 GPM		

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NORTH

1 ACTIVITY POOL LAYOUT PLAN 1/4"=1'-0"

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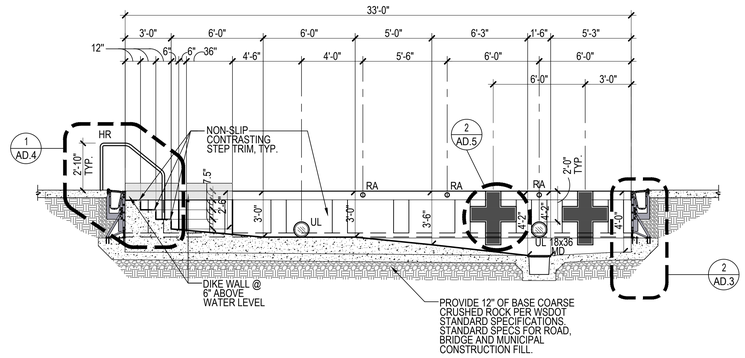
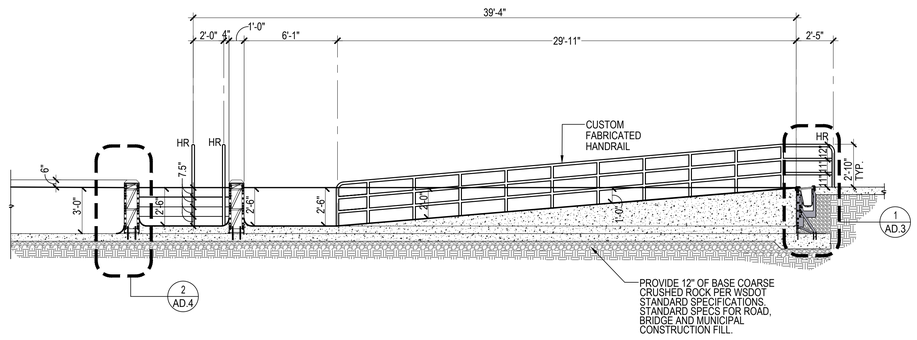
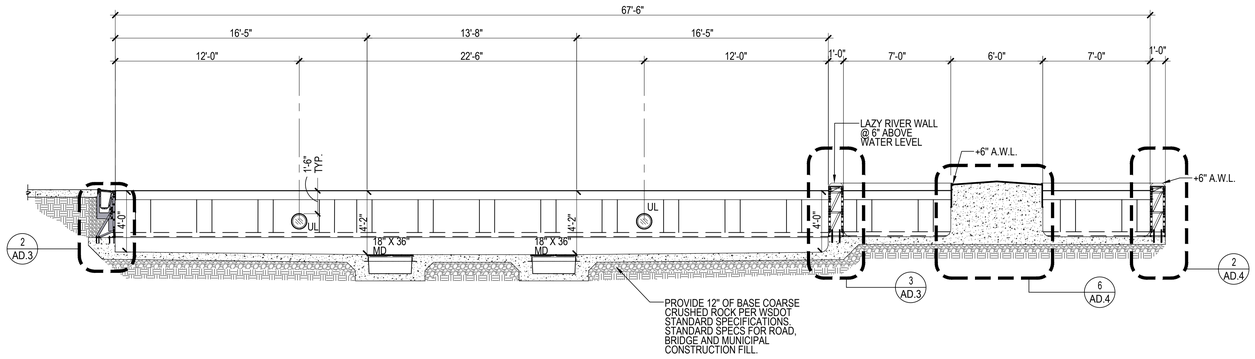


A **ACTIVITY POOL SECTION** 1/4"=1'-0"



B **ACTIVITY POOL SECTION** 1/4"=1'-0"



C **ACTIVITY POOL SECTION** 1/4"=1'-0"

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South Whidbey PARKS & RECREATION DISTRICT

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ACTIVITY POOL SECTIONS

SCALE: As Indicated
DRAWN: KK/AP
CHECKED: SF
PROJECT NO: 2022021.000

SHEET:

AP.2

ACTIVITY POOL DATA

SURFACE AREA	=	2,269 SQ. FT.
PERIMETER	=	198 FT.
DEPTH	=	0'-0" TO 4'-0"
VOLUME	=	51,427 GAL.
4 HR TURNOVER	=	214 GPM

GENERAL NOTES

1. CONTRACTOR TO COORDINATE ALL DIMENSIONS WITH SHOP DRAWINGS
2. CONTRACTOR TO COORDINATE WITH MANUFACTURE TO MEET REQUIRED FLOOR TO SLOPE EDGE TRANSITIONS AND SLAB ELEVATION TOLERANCES.
3. CONTRACTOR TO PROVIDE MANUFACTURERS REQUIRED CONCRETE FINISHES

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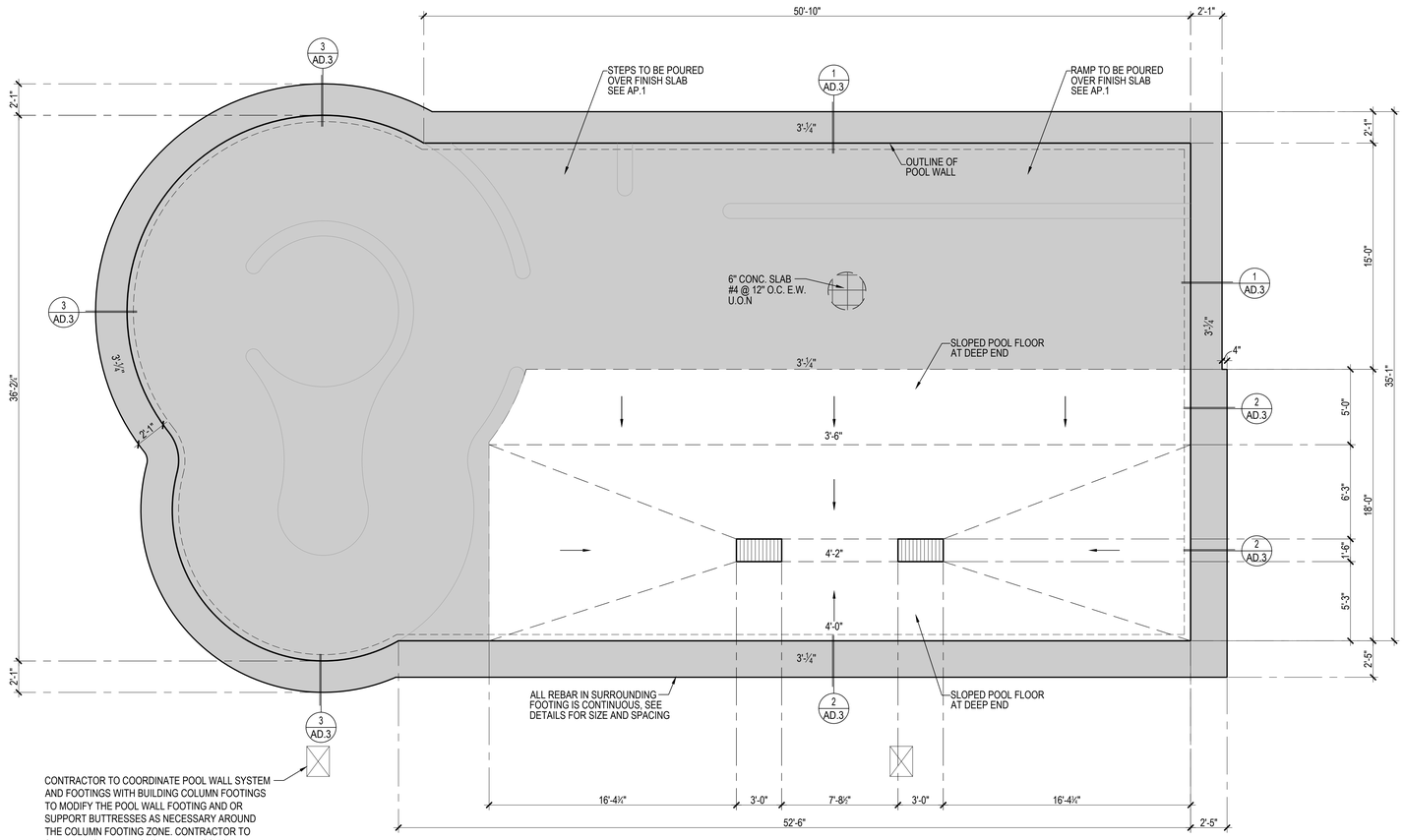

NORTH

1 ACTIVITY POOL SLAB PLAN 1/4"=1'-0"

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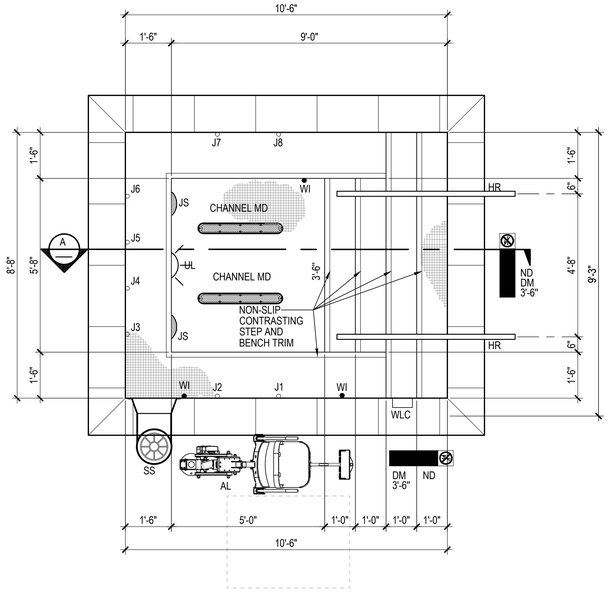
AP.3



HYDROTHERAPY SPA DATA

SURFACE AREA	=	100 SQ. FT.
PERIMETER	=	40 FT.
DEPTH	=	3'-6"
VOLUME	=	1,593 GAL.
30 MIN. TURNOVER	=	53 GPM

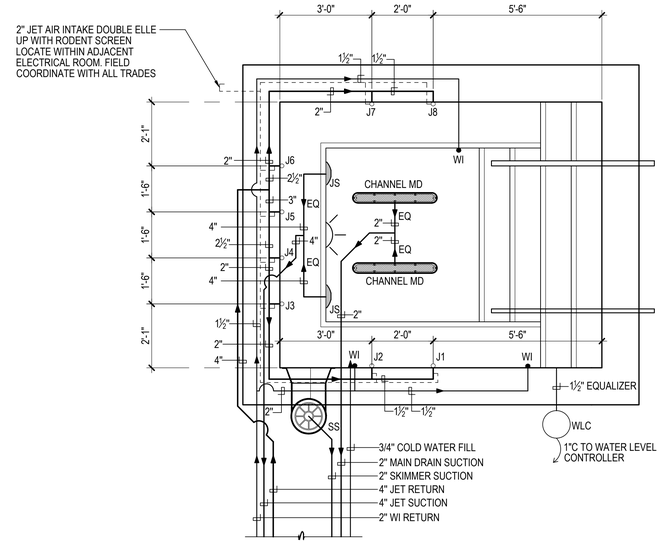
LEGEND

HR	=	HANDRAIL	2 / HS.3
DM	=	DEPTH MARKER	4 / AD.5
ND	=	NO DIVING	6 / AD.5
AL	=	ACCESSIBLE LIFT	1 / AD.8
MD	=	MAIN DRAIN	7 / HS.2
UL	=	UNDERWATER LIGHT	1 / AD.7
WLC	=	WATER LEVEL CONTROL	4 / HS.3
JS	=	JET SUCTION	3 / HS.2
J1-J10	=	SPA JETS	6 / HS.2
WI	=	WALL INLET	5 / HS.2
SS	=	SURFACE SKIMMER	4 / HS.2
	=	NON-SLIP TILE FINISH	

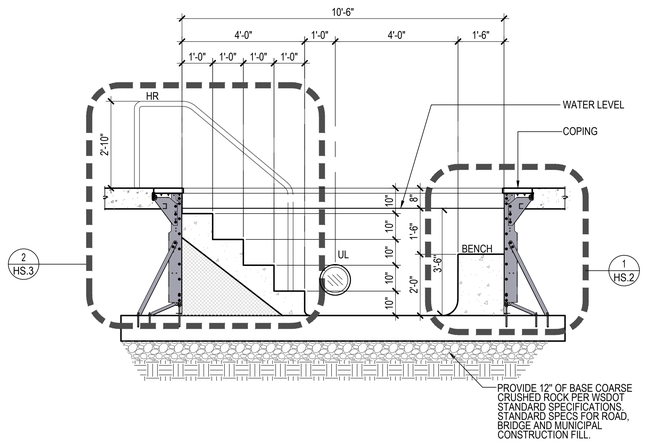
GENERAL NOTES

1. SPA WITH 1"X1" NON-SLIP TILE FINISH OVER PVC MEMBRANE. TILE COLOR TO BE SELECTED BY ARCHITECT.
2. HANDHOLD IS CONTRASTING COLOR TO THE POOL FINISH, AROUND THE ENTIRE POOL PERIMETER.
3. ALL MARKERS LOCATED ON THE DECK SHALL BE SLIP RESISTANT. SLIP RESISTANT IS CONSIDERED A WET COEFFICIENT OF FRICTION OF 0.6 OR GREATER AND SHALL BE FLUSH WITH THE POOL DECK FINISH.
4. POOL DECK MARKERS SHALL BE LOCATED AROUND POOL PERIMETER AND WATER LINE AT SPACING NOT TO EXCEED 25'-0".

1 HYDROTHERAPY SPA LAYOUT PLAN 1/2"=1'-0"



2 HYDROTHERAPY SPA PIPING PLAN 1/2"=1'-0"



A HYDROTHERAPY SPA SECTION 1/2"=1'-0"

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HYDROTHERAPY SPA PLAN AND SECTION

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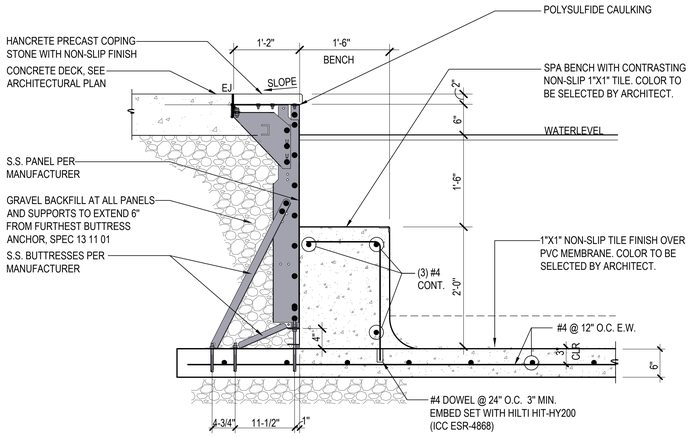


1 **SPA WALL** 1"=1'-0"

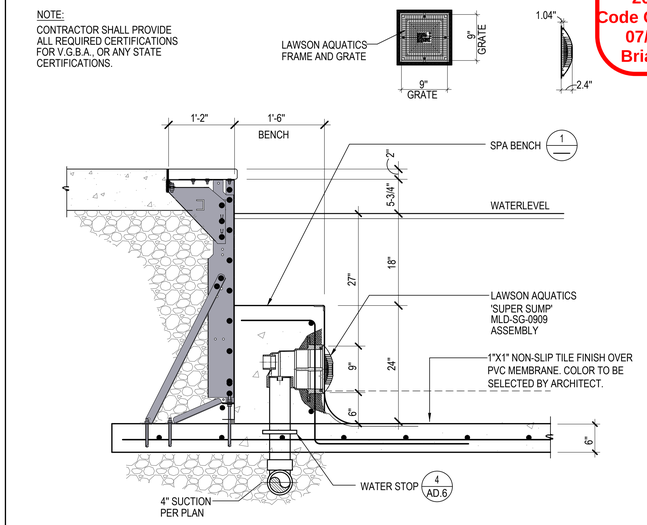
CONCRETE NOTES:

1. THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS. POOL = 4000 PSI
2. CONTINUOUS INSPECTION BY AN APPROVED INSPECTOR IS REQUIRED FOR ALL CONCRETE PLACEMENT.
3. ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150, TYPE II
4. FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33. MAXIMUM SIZE OF AGGREGATE TO BE 1".
5. CONCRETE MIX DESIGNS SHALL BE BASED UPON IBC SECTION 1905.3 AND ACI 318.
6. CONCRETE SHALL BE TESTED AND INSPECTED PER IBC SECTION 1905.6 AND ACI 318
7. REMOVAL OF FORMS SHALL COMPLY WITH IBC SECTION 1906 AND ACI 318
8. ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED TO BE GRADE 40. MIN. LAPS SHALL BE 74 BAR DIA.

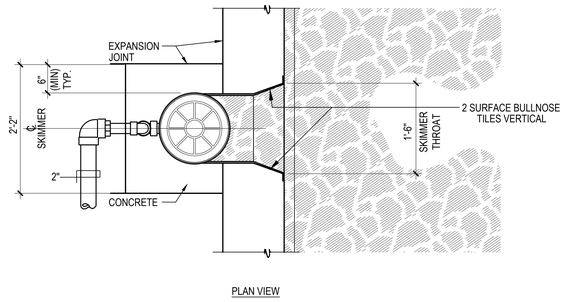
SHOTCRETE NOTES:

1. THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS POOL WALLS = 3000 PSI.
2. CONTINUOUS INSPECTION BY AN APPROVED INSPECTOR IS REQUIRED FOR ALL SHOTCRETE PLACEMENT.
3. ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150, TYPE II
4. FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33. MAXIMUM SIZE OF AGGREGATE TO BE 3/8".
5. SHOTCRETE MIX DESIGNS SHALL BE BASED UPON IBC SECTION 1913.
6. SHOTCRETE SHALL BE TESTED AND INSPECTED PER IBC SECTION 1913.5 & 1913.10
7. REBAR SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING OF SHOTCRETE.
8. ALL REINFORCEMENT WITHIN SHOTCRETE SHALL MAINTAIN MINIMUM 2" CLEAR NON-CONTACT SPLICES PER IBC SECTION 1913.4.
9. THE FILM OF LAITANCE WHICH FORMS ON THE SURFACE OF THE SHOTCRETE SHALL BE REMOVED WITHIN APPROXIMATELY TWO HOURS. AFTER APPLICATION BY BRUSHING WITH A STIFF BROOM. IF THIS IS NOT REMOVED WITHIN TWO HOURS, IT SHALL BE REMOVED BY THOROUGH WIRE BRUSHING OR SAND BLASTING. CONSTRUCTION JOINTS OVER EIGHT HOURS OLD SHALL BE THOROUGHLY CLEANED WITH AIR AND WATER PRIOR TO RECEIVING SHOTCRETE.
10. ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED TO BE GRADE 40. MIN. LAPS SHALL BE 74 BAR DIA.

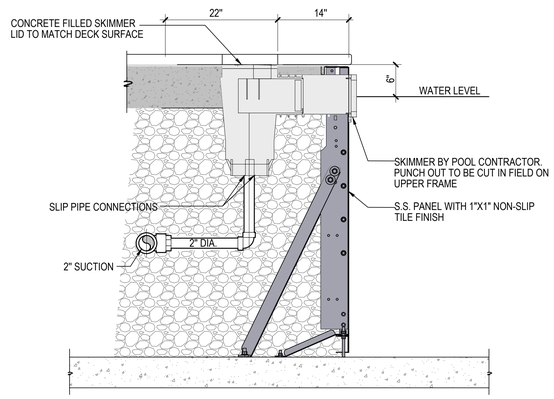
2 **CONCRETE NOTES**



3 **JET SUCTION** 1"=1'-0"

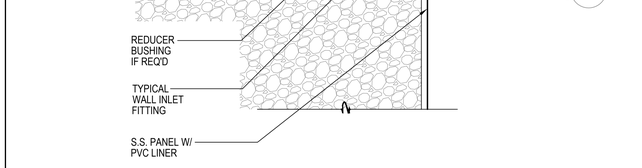


PLAN VIEW

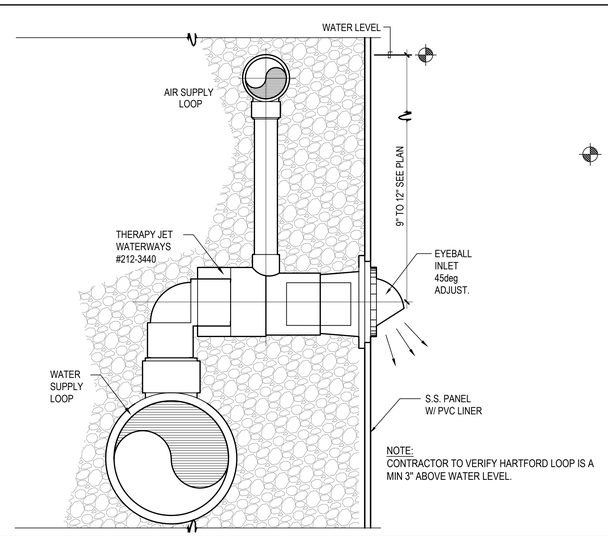


SECTION

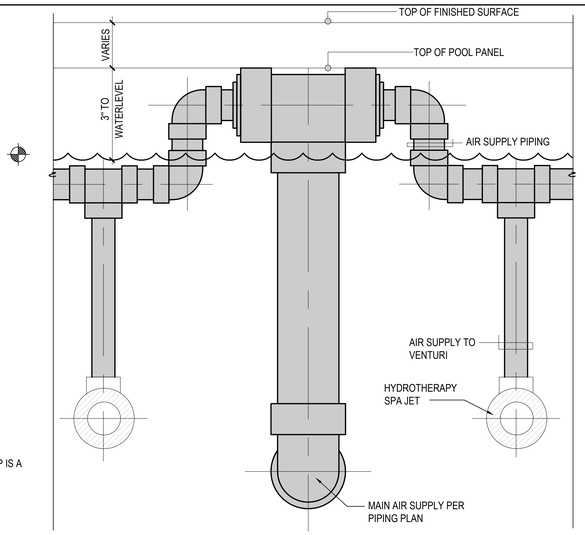
4 **SPA SURFACE SKIMMER** NO SCALE



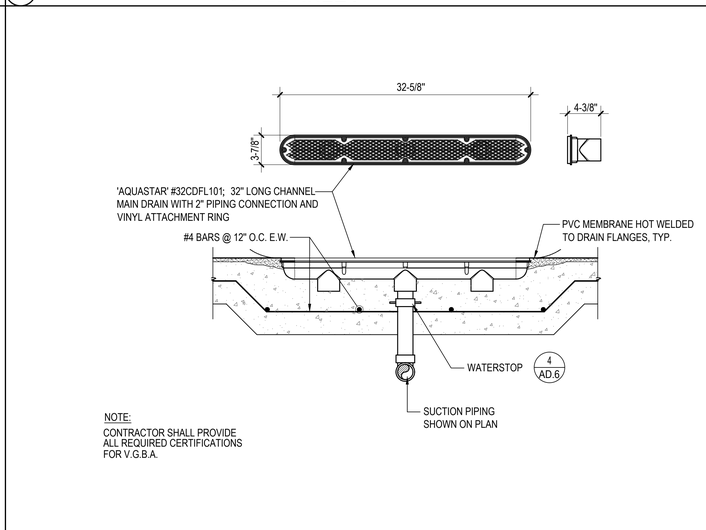
5 **WALL INLET** NO SCALE



NOTE:
CONTRACTOR TO VERIFY HARTFORD LOOP IS A MIN 3" ABOVE WATER LEVEL.



6 **HYDROTHERAPY JET/AIR SUPPLY PIPING** NO SCALE



NOTE:
CONTRACTOR SHALL PROVIDE
ALL REQUIRED CERTIFICATIONS
FOR V.G.B.A.

7 **CHANNEL MAIN DRAIN** 1"=1'-0"

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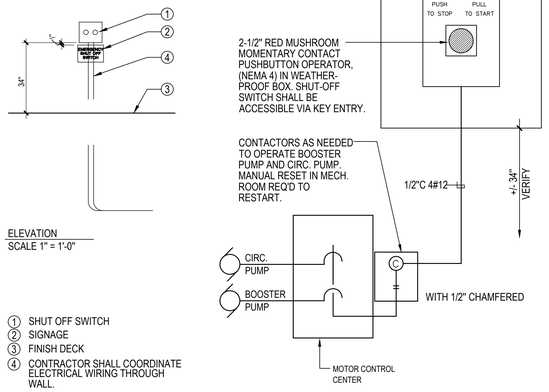
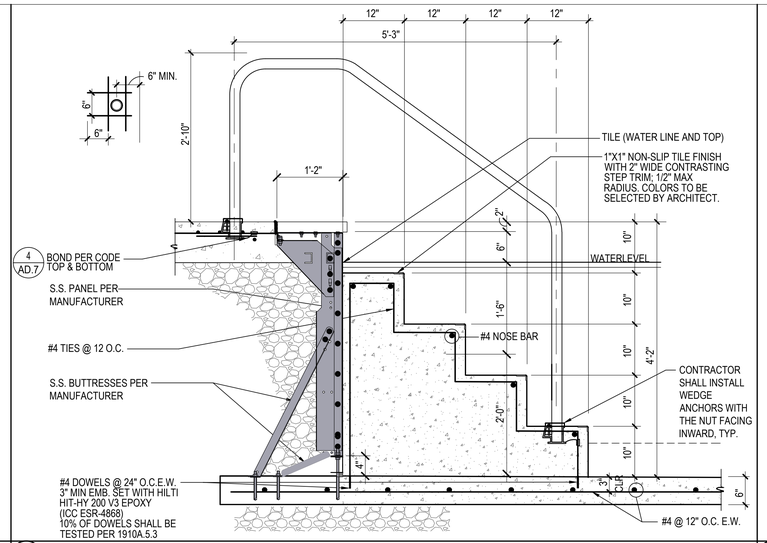
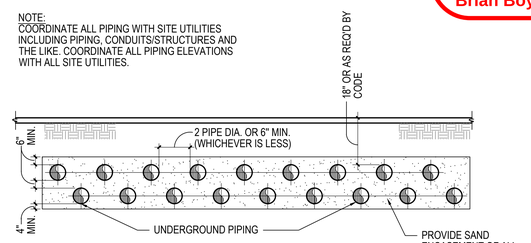


1 **EMERGENCY SHUT-OFF SWITCH** 1"=1'-0"



2 **SPA STAIRS** 1"=1'-0"



3 **STACKED UNDERGROUND PIPING** NO SCALE

4 **DECK MOUNTED WATER LEVEL CONTROL** 1-1/2"=1'-0"

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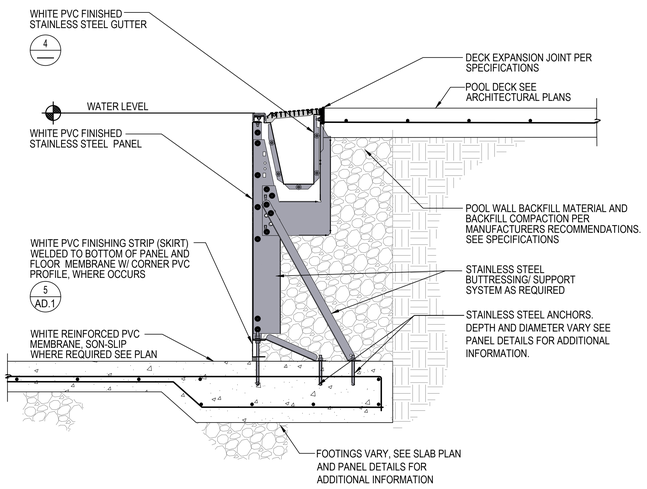


NOTE:
WALL PANEL ASSEMBLY, GUTTER, BUTTRESSES, ANCHORS, LINER AND ALL ASSOCIATED APPURTENANCES TO BE INSTALLED PER THE MANUFACTURERS INSTRUCTIONS & RECOMMENDATIONS.

1 TYPICAL POOL WALL FINISH 1"=1'-0"

CONCRETE NOTES:

1. THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS WITH A 0.40-0.45 MAX. WATER/CEMENT RATIO
   POOL = 4000 PSI
   SLAB-ON-GRADE = 4000 PSI
2. CONTINUOUS INSPECTION BY AN APPROVED INSPECTOR IS REQUIRED OF ALL CONCRETE PLACEMENT.
3. ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150 TYPE Ⅱ
4. FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33. MAXIMUM SIZE OF AGGREGATE TO BE 1".
5. CONCRETE MIX DESIGNS SHALL BE BASED UPON ACI-318 SECTIONS 19.3.2 AND 26.4.2.
6. CONCRETE SHALL BE TESTED AND INSPECTED PER SECTION IBC 1705A.3 AND 1905A.1.15.
7. REMOVAL OF FORMS SHALL COMPLY WITH ACI-318 SECTION 26.11.2.
8. ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED. LAPS SHALL BE 64 BAR DIA. SEE STANDARD SPLICING AND CORNER DETAILS

SHOTCRETE NOTES:

1. SHOTCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH, AS LISTED BELOW, AT 28 DAYS. SHOTCRETE MATERIAL SHALL HAVE A WATER/CEMENT RATIO OF 0.40-0.45 PER ACI 506R, PART 2, PRODUCTS, SECTION 2.5.3.3, WET-MIX PROCESS.
   POOL WALLS = 4,000 PSI
   POOL STAIRS = 4,000 PSI
2. CONTINUOUS INSPECTION BY AN APPROVED INSPECTOR IS REQUIRED OF ALL SHOTCRETE PLACEMENT.
3. ALL CEMENT USED SHALL CONFORM TO A.S.T.M. C-150 TYPE Ⅱ
4. FINE AND COARSE AGGREGATE SHALL CONFORM TO A.S.T.M. C-33, AND SHALL CONFORM TO COARSE AGGREGATE GRADING NO. 2 PER ACI 506R TABLE 1.1.1. MAXIMUM SIZE OF AGGREGATE TO BE 3/8".
5. SHOTCRETE MIX DESIGNS SHALL BE PER IBC SECTION 1908A.2.
6. SHOTCRETE SHALL BE TESTED AND INSPECTED PER IBC SECTION 1705A.3. , 1705A.19 AND 1908A.10
7. ANCHOR BOLTS, ANCHORS, DOWELS, INSERTS, ETC. SHALL BE SECURELY TIED IN PLACE PRIOR TO PLACING OF SHOTCRETE.
8. ALL REINFORCEMENT WITHIN SHOTCRETE SHALL MAINTAIN MINIMUM 2" CLEAR NON-CONTACT SPLICES.
9. THE FILM OF LAITANCE WHICH FORMS ON THE SURFACE OF THE SHOTCRETE SHALL BE REMOVED WITHIN APPROXIMATELY TWO HOURS AFTER APPLICATION BY BRUSHING WITH A STIFF BROOM. IF THIS IS NOT REMOVED WITHIN TWO HOURS, IT SHALL BE REMOVED BY THOROUGH WIRE BRUSHING OR SAND BLASTING. CONSTRUCTION JOINTS OVER EIGHT HOURS OLD SHALL BE THOROUGHLY CLEANED WITH AIR AND WATER PRIOR TO RECEIVING SHOTCRETE.
10. ALL REINFORCING SHALL BE ASTM A-615, GRADE 60, UNLESS OTHERWISE NOTED. LAPS SHALL BE 64 BAR DIA.

2 CONCRETE NOTES

EPOXY REBAR PULL TESTING LOADS

BAR SIZE	DEPTH	PRODUCT	TEST VALUE
#4	3" EMBED	HILTI HIT-HY 200 V3 (ICC ESR-4868)	1,050 LBS

INSTALLATION PARAMETERS:
- MINIMUM CONCRETE AGE: 21 DAYS
- DRILLING: HAMMER DRILLED
- TEMPERATURE: 14-114*F
- MOISTURE CONDITION: DRY OR SATURATED
- CLEANING: AUTOMATIC OR COMPRESSED-AIR

EPOXY ANCHOR PULL TESTING LOADS

LOCATION	DIAMETER	DEPTH	TEST VALUE	TESTING %
PANEL 3'-0"	1/2"Ø	4" EMBED	5,250 LBS	100%**
	5/8"Ø	5" EMBED	8,250 LBS	100%
PANEL 4'-6"	1/2"Ø	4" EMBED	5,250 LBS	100%**
	5/8"Ø	5" EMBED	8,250 LBS	100%
6'-6" PANEL	1/2"Ø	4" EMBED	5,250 LBS	100%**
	5/8"Ø	5" EMBED	8,250 LBS	100%

ALL STAINLESS STEEL ALL THREAD ANCHORS SHALL BE SET W/ HILTI HIT-HY 200 V3 EPOXY ADHESIVE ANCHORING SYSTEM (ICC ESR-4868)

** AT CHANNEL BASE FRAME ONLY 10% OF 1/2"Ø ANCHORS SHALL BE TESTED PER IBC 1910A.5.3 EXCEPTION 2

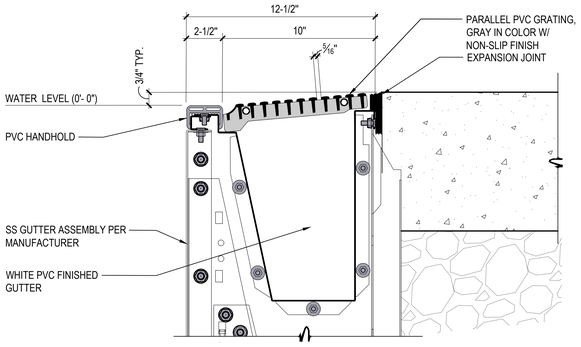
INSTALLATION PARAMETERS:
- MINIMUM CONCRETE AGE: 21 DAYS
- DRILLING: HAMMER DRILLED
- TEMPERATURE: 14-114*F
- MOISTURE CONDITION: DRY OR SATURATED
- CLEANING: AUTOMATIC OR COMPRESSED-AIR

MACHINE BOLT TORQUE TESTING LOADS

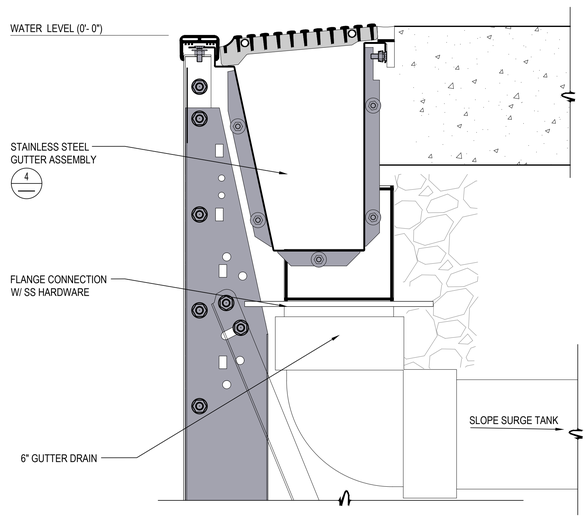
DIAMETER	LOAD	
1/2"Ø	4,750 LBS	SEE NOTES
5/8"Ø	7,400 LBS	SEE NOTES

- BOLTED CONNECTIONS SHALL BE INSPECTED PER IBC 2022-AISC 360 M2.5 BOLTS BETWEEN PANELS SHALL BE PRIODICALLY INSPECTED.
- BOLTS BETWEEN BUTRESS AND PANELS SHALL BE INSPECTD CONTINUOUSLY.
- BOLT TESTING AND FIELD VERIFICATION SHALL BE THE SAMPLES PER 400 BOLTS PER IBC 2213A.1

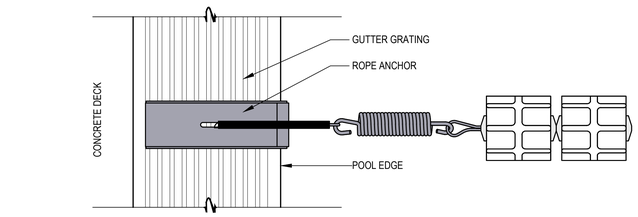
3 TESTING LOADS



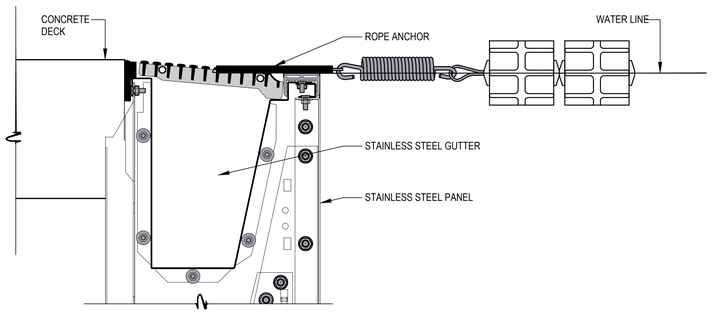
4 STAINLESS STEEL GUTTER DETAIL 3"=1'-0"



5 TYPICAL 6" GUTTER OUTLET 3"=1'-0"



PLAN VIEW



SECTION VIEW

6 ROPE ANCHOR 1/2" = 1"

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SOUTH WHIDBEY PARKS AQUATIC CENTER

PID 812720 MAXWELTON RD
LANGLEY, WA 98260

South Whidbey PARKS & RECREATION DISTRICT

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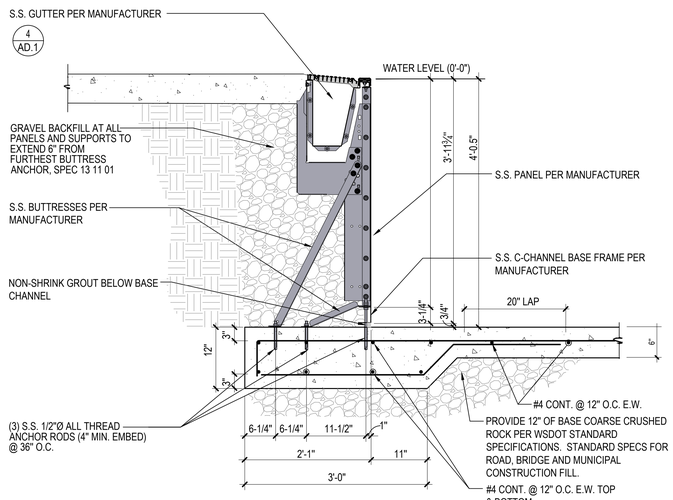
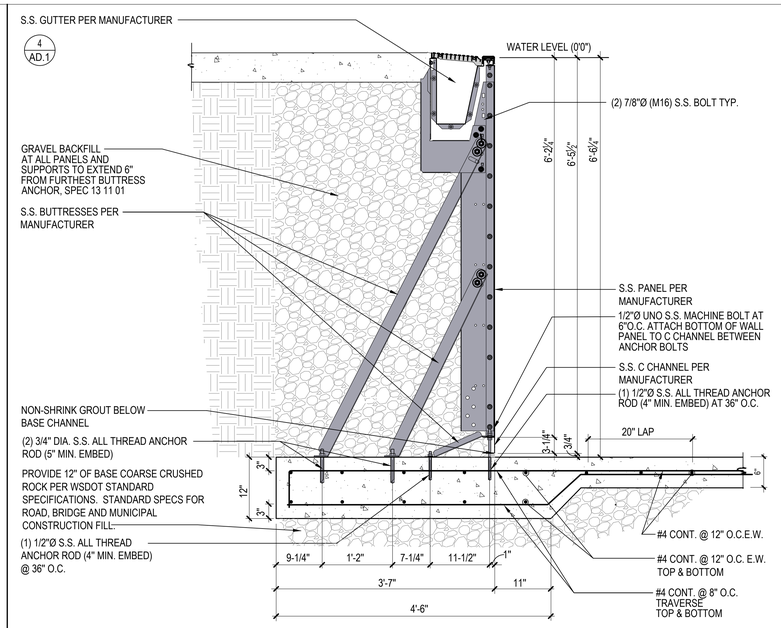


2 AD.1 NOTES:
SEE CONCRETE NOTES FOR ADDITIONAL INFORMATION

3 AD.1 SEE TESTING LOADS FOR ALL MACHINE BOLT CONNECTIONS AND ANCHORS.

3 AD.1 ALL S.S. ALL THREAD ANCHOR RODS ARE SET WITH HILTI HIT-HY200 V3 EPOXY

1 SWIMMING POOL S.S. POOL WALL 4'-1" DEPTH 1"=1'-0"



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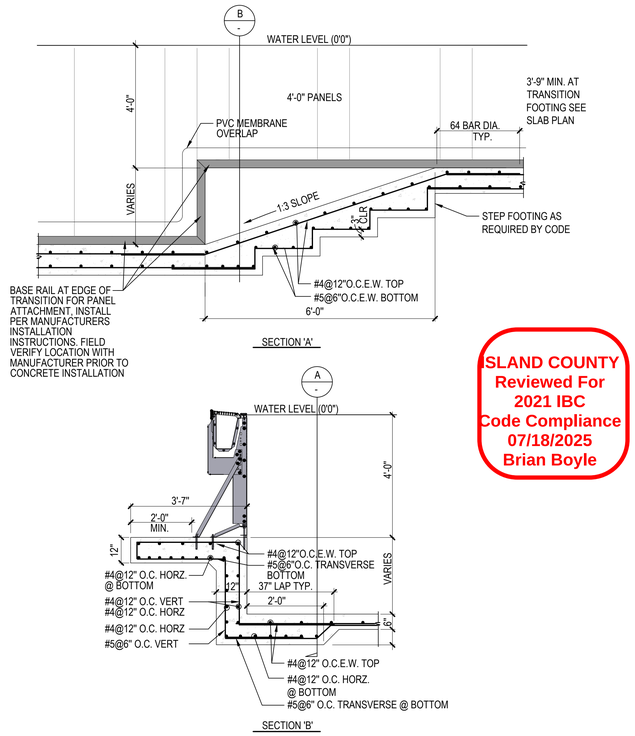
3 AD.1 SEE TESTINIG LOADS FOR ALL MACHINE BOLT CONNECTIONS AND ANCHORS.

3 AD.1 ALL S.S. ALL THREAD ANCHOR RODS ARE SET WITH HILTI HIT-HY200 V3 EPOXY

2 SWIMMING POOL S.S. POOL WALL 6'-7" DEPTH 1"=1'-0"



3 STEPPED FOOTING AT PANEL TRANSITION 1/2"=1'-0"

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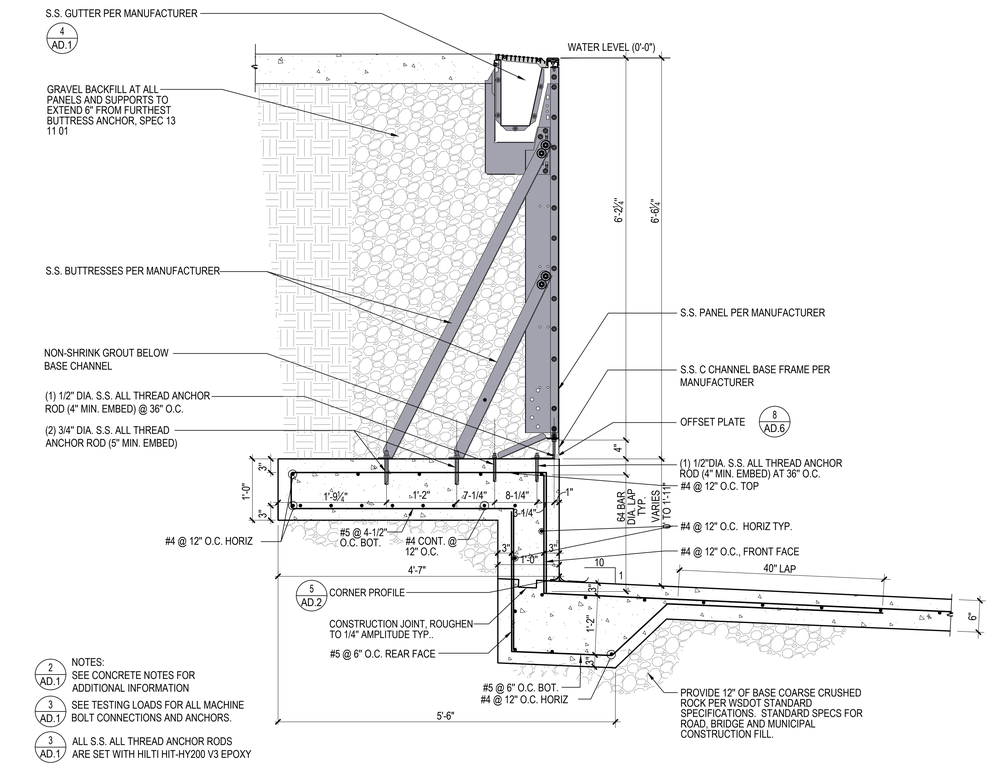

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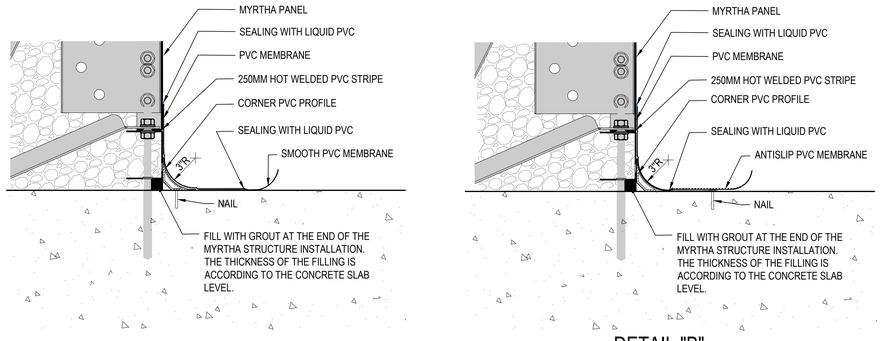
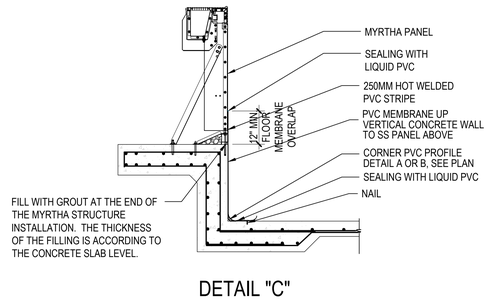
3 AD.1 ALL S.S. ALL THREAD ANCHOR RODS ARE SET WITH HILTI HIT-HY200 V3 EPOXY

4 SWIMMING POOL S.S. POOL WALL 6'-8'' - 9'-6'' DEPTH 1"=1'-0"





5 TYPICAL CORNER PROFILES & MEMBRANE 3"=1'-0"

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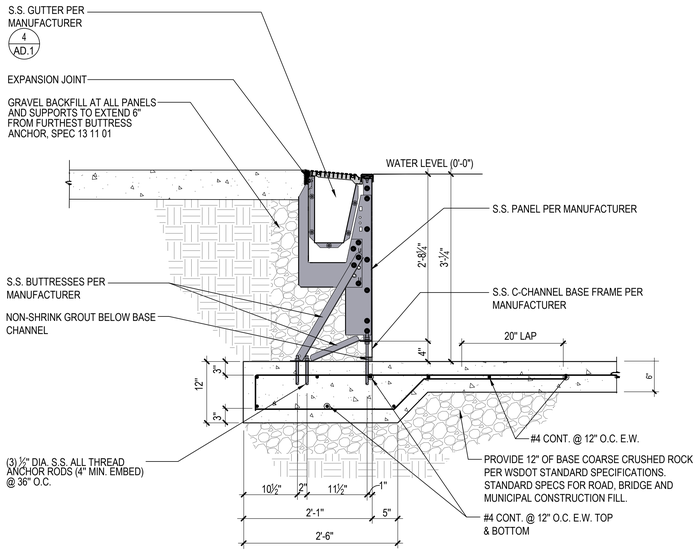

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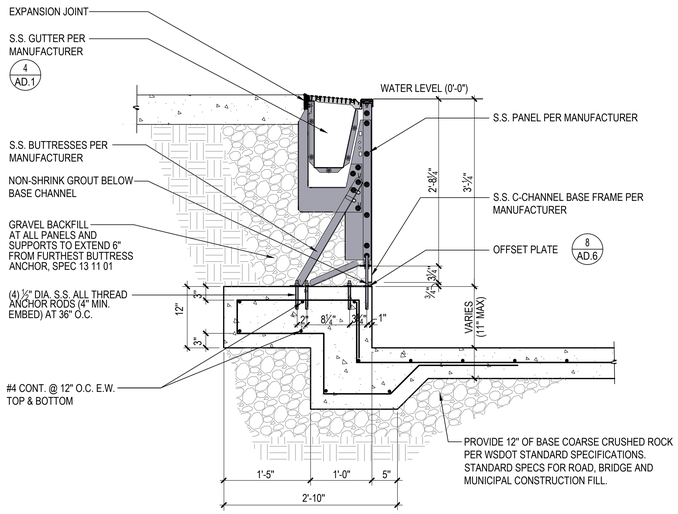
3 AD.1 SEE TESTING LOADS FOR ALL MACHINE BOLT CONNECTIONS AND ANCHORS.

3 AD.1 ALL S.S. ALL THREAD ANCHOR RODS ARE SET WITH HILTI HIT-HY200 V3 EPOXY

1 ACTIVITY POOL S.S. POOL WALL 3'-0" DEPTH 1"=1'-0"



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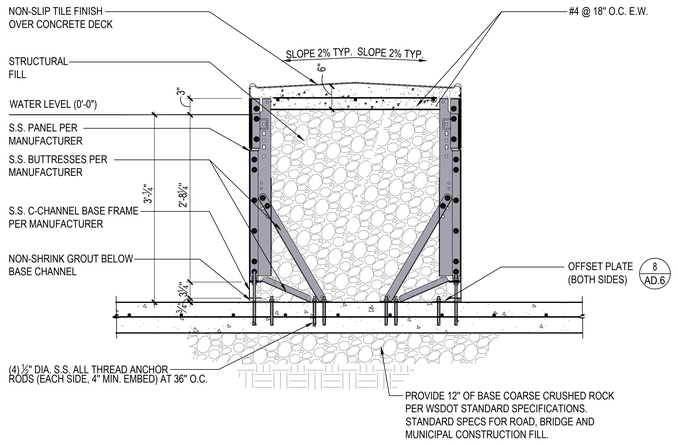
3 AD.1 SEE TESTING LOADS FOR ALL MACHINE BOLT CONNECTIONS AND ANCHORS.

3 AD.1 ALL S.S. ALL THREAD ANCHOR RODS ARE SET WITH HILTI HIT-HY200 V3 EPOXY

2 ACTIVITY POOL S.S. POOL WALL 3'-1" TO 4'-0" DEPTH 1"=1'-0"



2 AD.1 NOTES:
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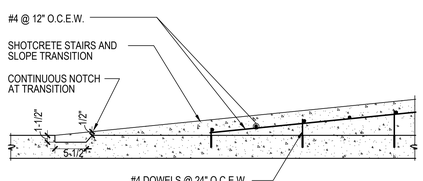
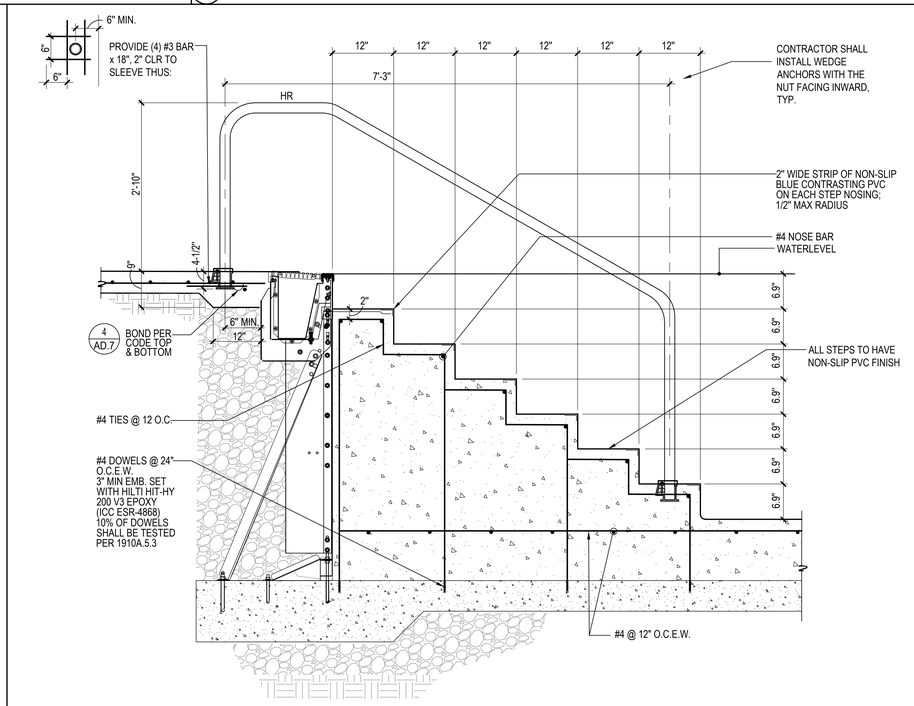
3 AD.1 SEE TESTING LOADS FOR ALL MACHINE BOLT CONNECTIONS AND ANCHORS.

3 AD.1 ALL S.S ALL THREAD ANCHOR RODS ARE SET WITH HILTI HIT-HY200 V3 EPOXY

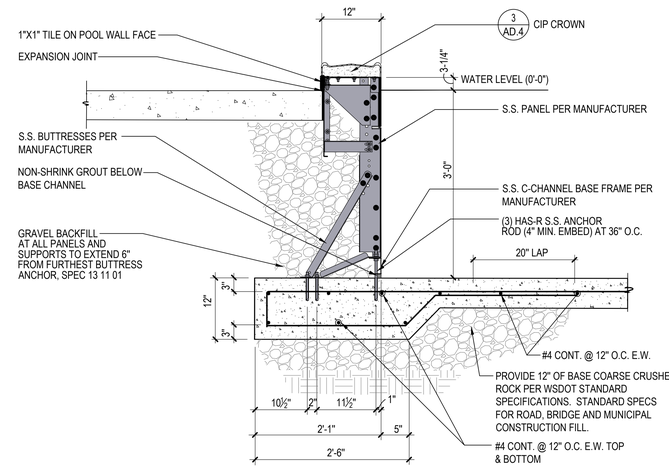
3 ACTIVITY POOL S.S. WIDE DIKE WALL DETAIL 1"=1'-0"



4 INTERIOR SLOPE TRANSITION 1"=1'-0"



5 SWIMMING POOL HANDRAIL DETAIL 1"=1'-0"



2 AD.1 NOTES:
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3 AD.1 SEE TESTING LOADS FOR ALL MACHINE BOLT CONNECTIONS AND ANCHORS.

3 AD.1 ALL S.S. ALL THREAD ANCHOR RODS ARE SET WITH HILTI HIT-HY200 V3 EPOXY

6 ACTIVITY POOL S.S. DIKE WALL @ DECK DETAIL 1"=1'-0"

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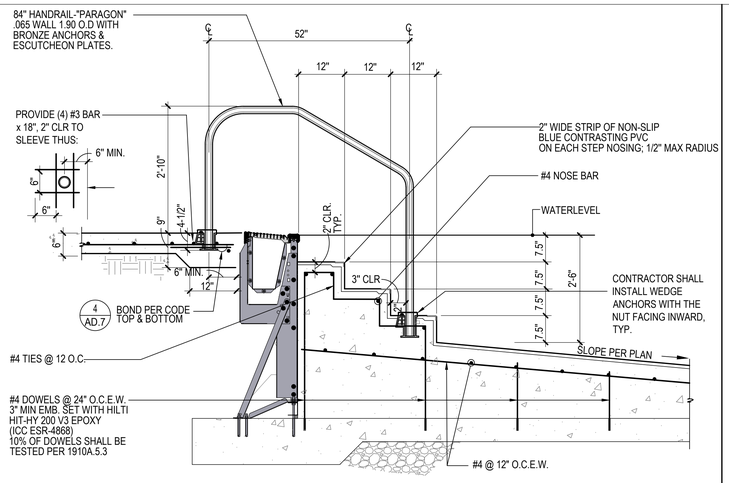
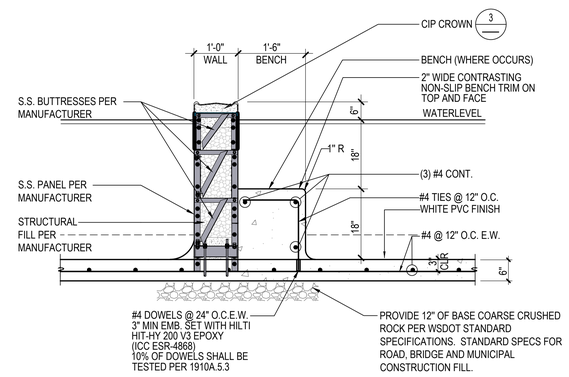
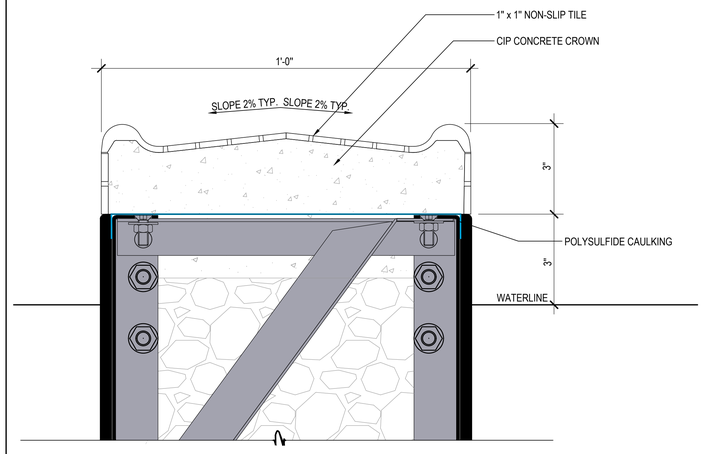


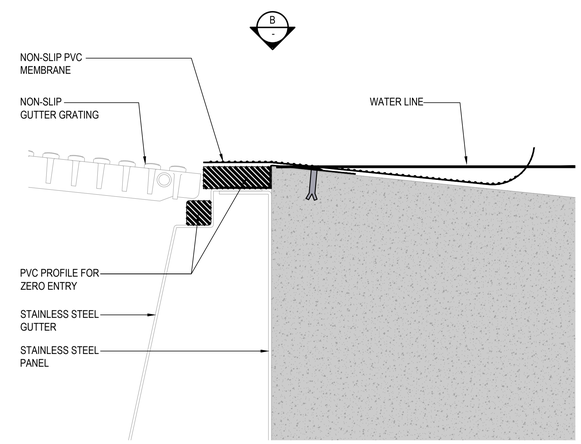
1 **ACTIVITY POOL HANDRAIL DETAIL** 3/4"=1'-0"



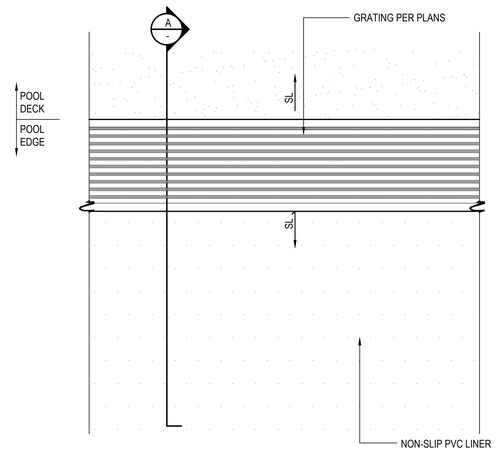
2 **ACTIVITY POOL S.S. NARROW DIKE WALL DETAIL** 3/4"=1'-0"



3 **DIKE WALL CROWN** 6"=1'-0"

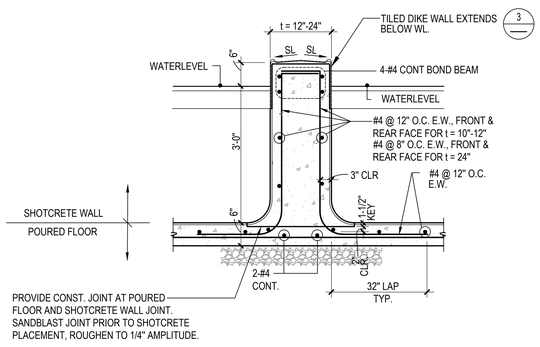


A ZERO DEPTH SECTION
6" = 1'-0"

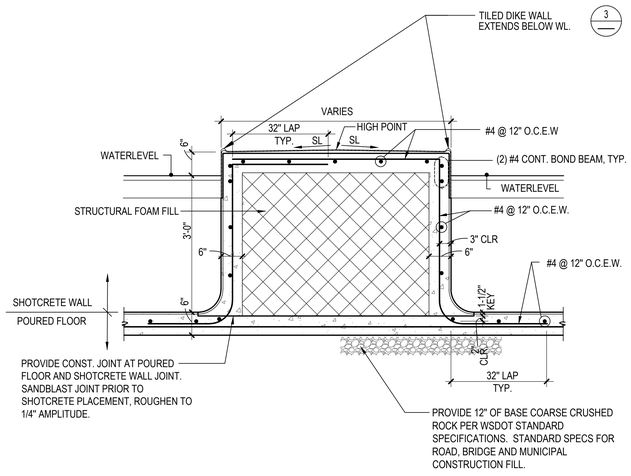


B ZERO DEPTH ENTRY PLAN
1-1/2" = 1'-0"

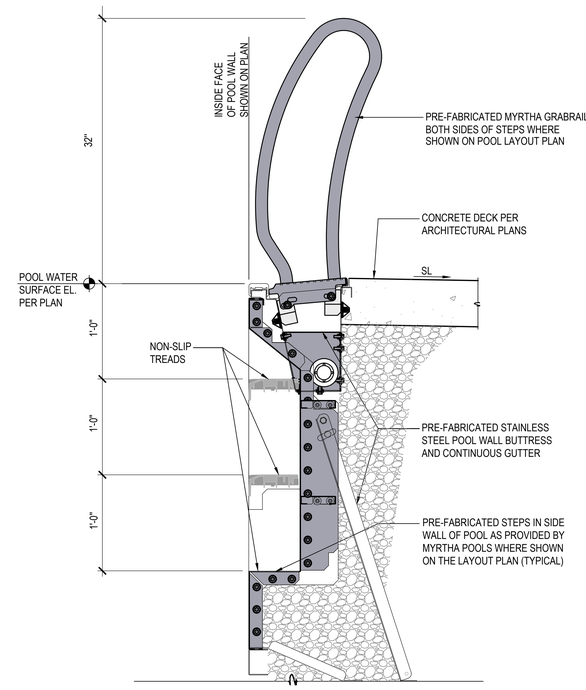
4 **ACTIVITY POOL ZERO DEPTH ENTRY POOL** AS NOTED



5 **ACTIVITY POOL NARROW CONCRETE DIKE WALL DETAIL** 3/4"=1'-0"



6 **ACTIVITY POOL WIDE CONCRETE DIKE WALL DETAIL** 3/4"=1'-0"



7 **GRABRAIL WITH STEPS** 1-1/2"=1'-0"

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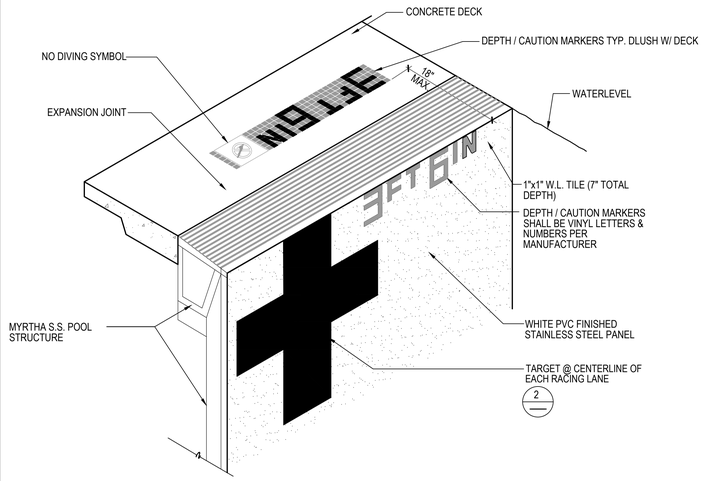
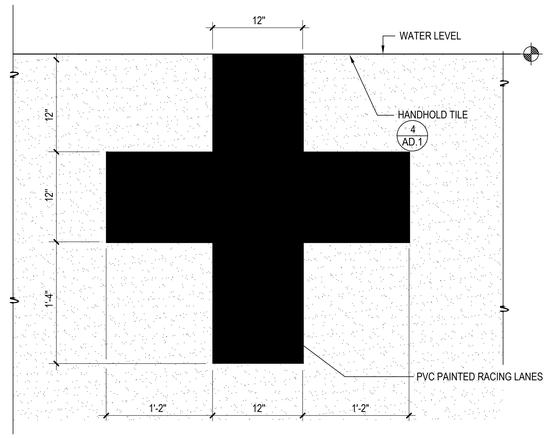


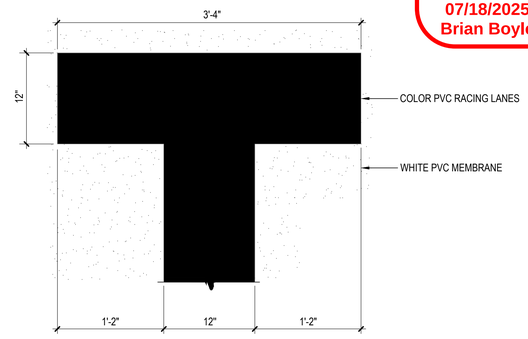
1 TYPICAL RIM FLOW GUTTER PERSPECTIVE

NO SCALE



2 END WALL TARGET

1-1/2" = 1'-0"



PLAN VIEW

3 RACING LANE LINE

1-1/2"=1'-0"

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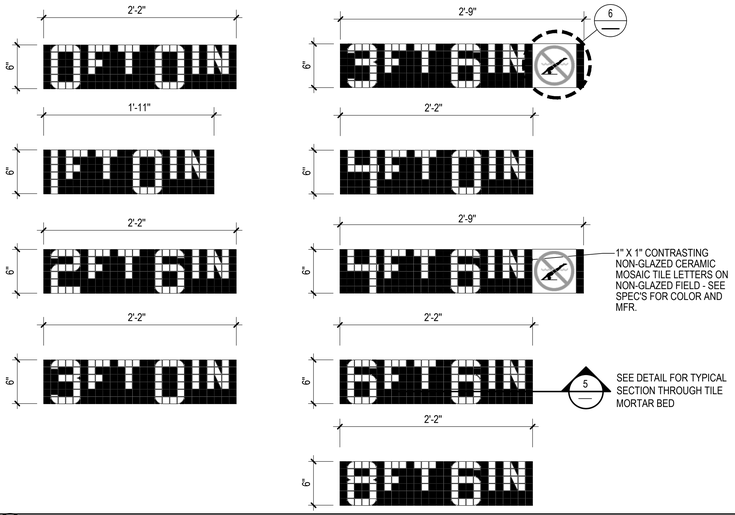
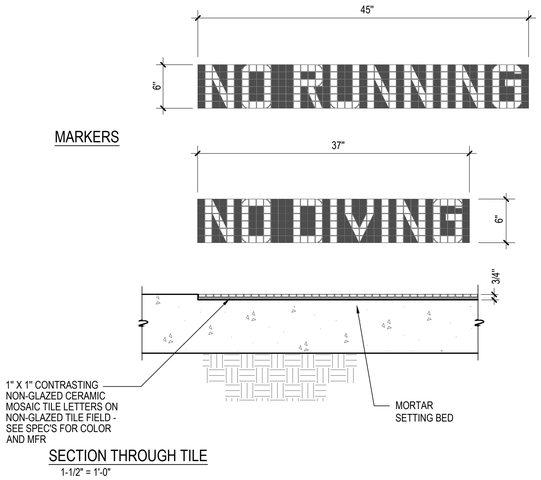


4 DEPTH MARKERS

1-1/2" = 1'-0"

MARKERS

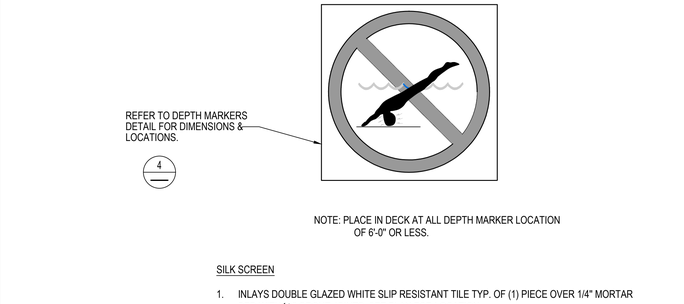


SECTION THROUGH TILE

1-1/2" = 1'-0"

5 "NO RUNNING" / "NO DIVING" MARKERS

1-1/2" = 1'-0"



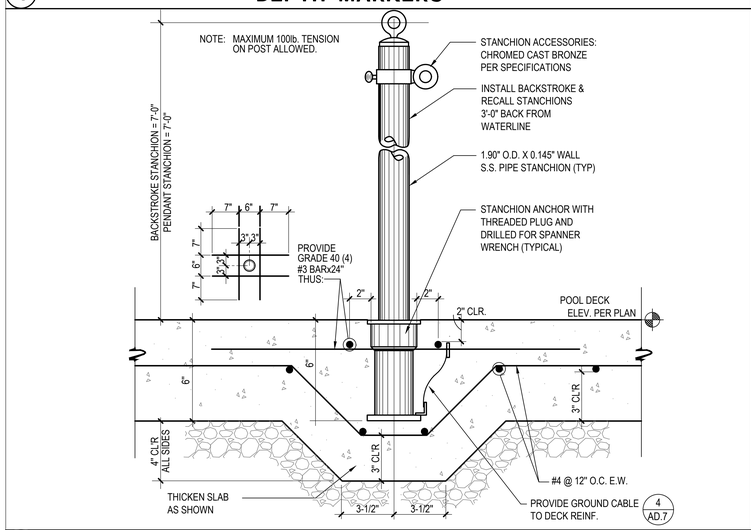
NOTE: PLACE IN DECK AT ALL DEPTH MARKER LOCATION OF 6'-0" OR LESS.

SILK SCREEN

1. INLAYS DOUBLE GLAZED WHITE SLIP RESISTANT TILE TYP. OF (1) PIECE OVER 1/4" MORTAR BED WITH 1/16" GROUT JOINTS. SEE PLAN FOR LOCATION.
2. 1" WIDE RED CIRCLE WITH 1" WIDE RED DIAGONAL LINE.
3. 1/8" BLUE WATER.
4. 1/16" RED TICKS ABOUT THE HEAD.
5. TAN COLOR BODY WITH BLACK OUTLINE, HAIR AND TRUNKS.
6. 1/8" BLACK POOL FLOOR.

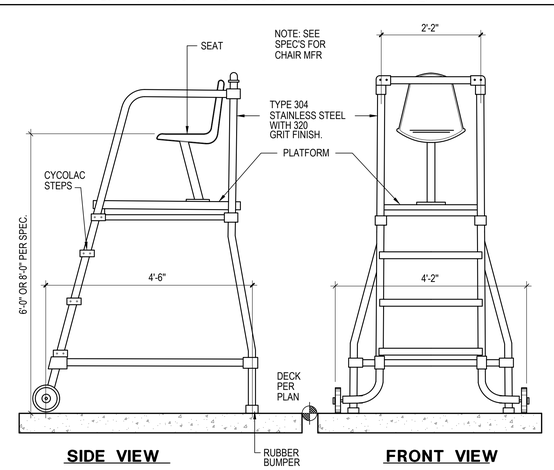
6 INTERNATIONAL "NO DIVING" MARKER

3" = 1'-0"



7 STANCHION POST/ANCHOR

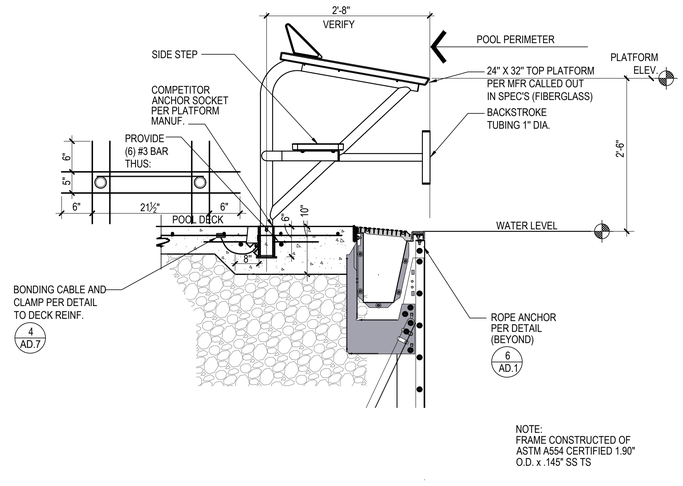
3"=1'-0"



SIDE VIEW FRONT VIEW

8 MOVEABLE LIFEGUARD CHAIR

3/4"=1'-0"



NOTE:
FRAME CONSTRUCTED OF ASTM A554 CERTIFIED 1.90" O.D. x .145" SS TS

9 RACING PLATFORM

1"=1'-0"

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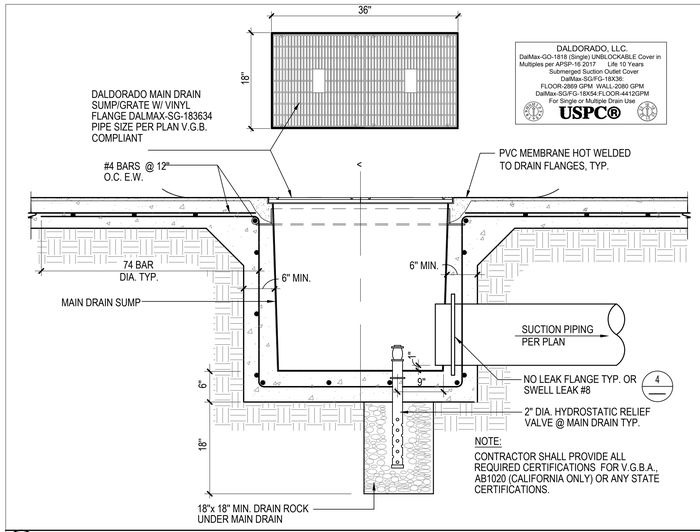
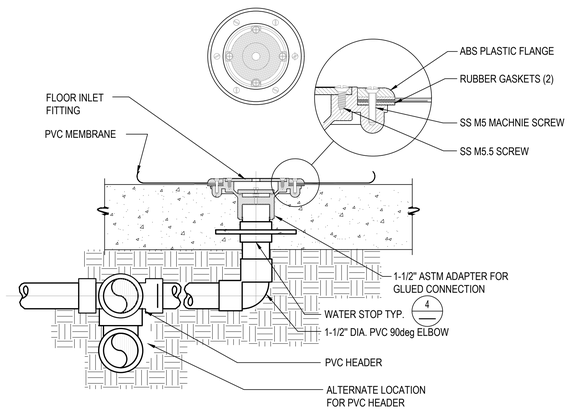
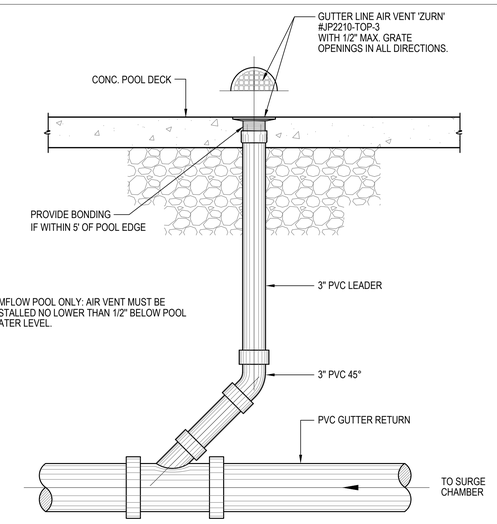


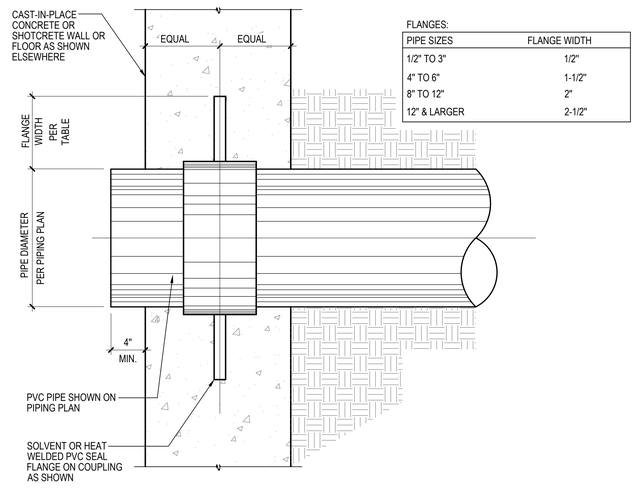
1 **MAIN DRAIN** 1" = 1'-0"



2 **FLOOR INLET** 1"=1'-0"



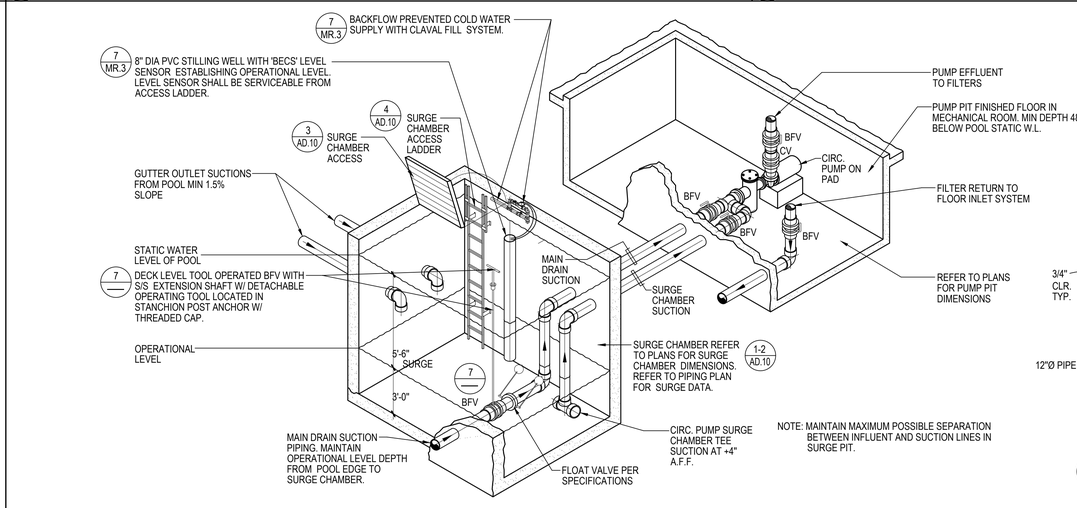
3 **AIR VENT** 1"=1'-0"



FLANGES:

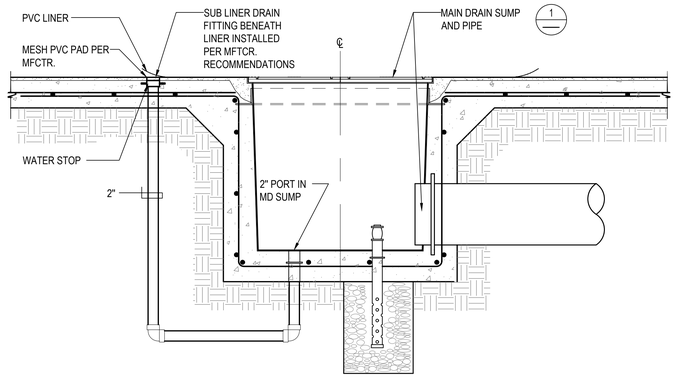
PIPE SIZES	FLANGE WIDTH
1/2" TO 3"	1/2"
4" TO 6"	1-1/2"
8" TO 12"	2"
12" & LARGER	2-1/2"

4 **WATER STOP DETAIL** NO SCALE

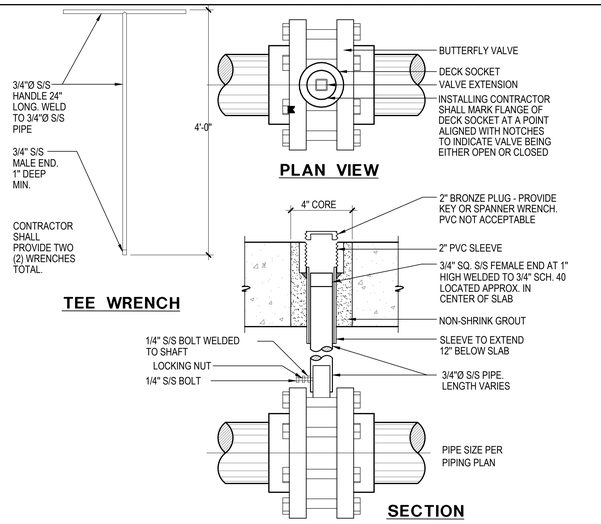


5 **SURGE CHAMBER PIPING SCHEMATIC**

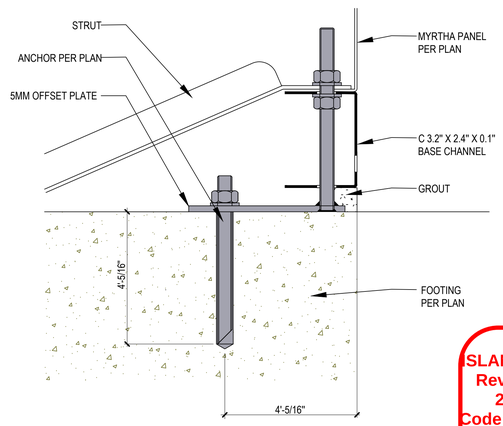
A **SURGE CHAMBER REINFORCING AT PIPE PENETRATIONS** 1/2"=1'-0"



6 **SUB LINER DRAIN** 1"=1'-0"



7 **SURGE CHAMBER BUTTERFLY VALVE / EXTENSION DETAIL**



8 **OFFSET BASE PLATE DETAIL** 6"=1'-0"

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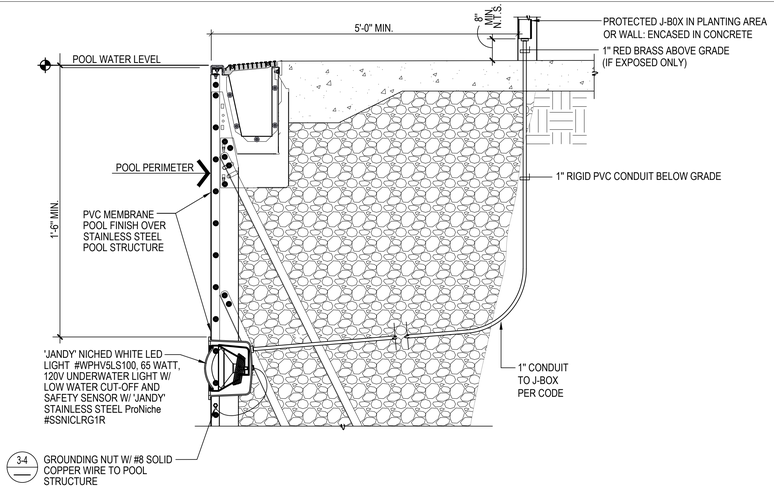

UNDERWATER LIGHT NOTES:

2
1. ALL CONDUITS IN POOL LIGHTING SYSTEM TO BE A MINIMUM OF 1"DIA.
2. CONDUCTORS TO POOL. J-BOXES SHALL BE MINIMUM 2-#8 & 1#8 (SEE UNDERWATER LIGHT PLAN) SOLID UNBROKEN TO MAIN PANEL ISOLATED GROUND BUSS. THIS BUSS IS TO BE CONNECTED WITH SOLID INSULATED #8 COPPER WIRE TO UFER & COLDWATER GROUNDING LUG ON GROUNDING BUSS. UPSIZE CONDUCTORS AS REQUIRED FOR HOMERUNS EXCEEDING 100'.

1, 2
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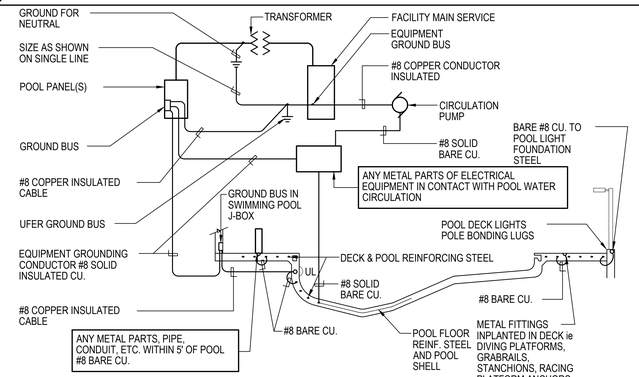
6. BRASS POOL J-BOXES SHALL BE "HYDREL" #1719 ; W/ 1" HUBS OR EQUAL. (NO DIE CAST BOXES).
7. STRINGS SHALL BE PULLED IN ALL CONDUITS PRIOR TO PLACEMENT OF CONCRETE.
8. LOCAL, COUNTY OR CITY CODES SHALL BE ADHERED TO, SPECIFICATIONS TO BE IN ACCORDANCE WITH SECTION 680 OF LATEST N.E.C. BOOK.
9. PROVIDE PULL BOXES AS MAY BE REQUIRED FOR RUNS EXCEEDING 150 FT. OR DUE TO CHANGES IN GRADE OR DIRECTION.
10. CONTRACTOR SHALL TEST UNDERWATER POOL LIGHT GFIC CIRCUITS AND PROVIDE LETTER TO OWNER/DSA UPON SUCCESSFUL TEST.
11. SEAL CONDUIT OPENING IN LIGHT NICHE WITH SILICON CAULKING AFTER LIGHT IS INSTALLED.
12. PRIOR TO LIGHT INSTALLATION, PROVIDE MINIMUM 10 PSI PRESSURE TEST ON ALL POOL LIGHT CONDUITS FOR FOUR (4) HOURS OBSERVED BY INSPECTOR OF RECORD. MAINTAIN PRESSURE UNTIL ALL DECKS ARE POURED.

1 UNDERWATER LED LIGHT (S.S. PANEL WALL)

1-1/2"=1'-0"

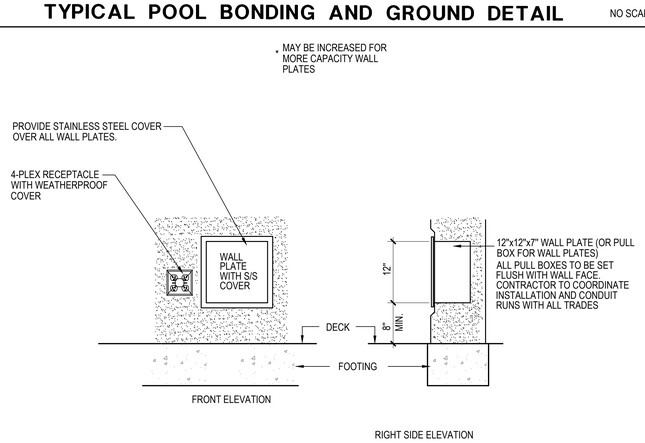


NOTE:

STRUCTURAL STEEL IN POOL DECK AND POOL SHALL BE BONDED TOGETHER (TIGHTLY MADE STEEL TIE-WIRES ARE APPROVED FOR BONDING STRUCTURAL ELEMENTS).
BONDING CONNECTOR TO COMMON GRID. (POOL STEEL MAY BE USED FOR THAT PURPOSE) SHALL BE MADE BY PRESSURE CONNECTORS OR CLAMPS OF BRASS, COPPER, OR COPPER ALLOY.
ALL GROUND BUSSES SHALL BE SIZED FOR CONNECTION TO AWG SIZE 8 WIRE PROVIDING ONE SPARE TERMINAL.
GROUND AND BOND IN ACCORDANCE WITH ARTICLE 680 OF THE INTERNATIONAL ELECTRICAL CODE. ie. LADDERS, FENCING, POLE LIGHTS, DIVING & STARTING STANCHIONS, DISABLED LIFT ETC.
PROVIDE BONDING OF AUTOMATIC POOL COVER MOTORS REGARDLESS OF PROXIMITY TO POOL.

3 TYPICAL POOL BONDING AND GROUND DETAIL

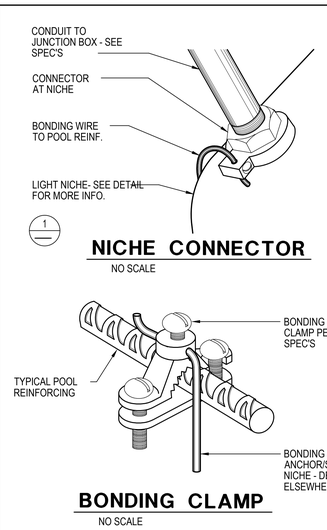
NO SCALE



NOTE:
PROVIDE 3/4" CHAMFER ON ALL CONCRETE CORNERS.

5 TIMING SYSTEM WALL PLATE CONCRETE SURROUND DETAIL

1"=1'-0"

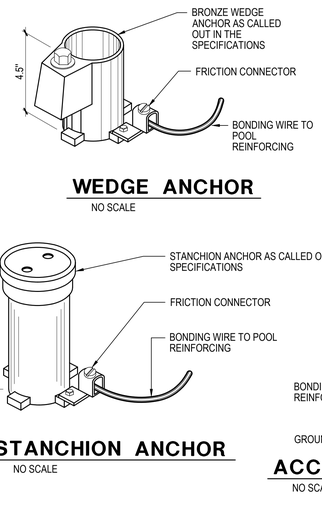


NICHE CONNECTOR

NO SCALE

BONDING CLAMP

NO SCALE

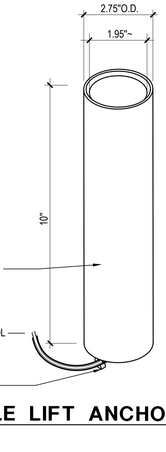


WEDGE ANCHOR

NO SCALE

STANCHION ANCHOR

NO SCALE

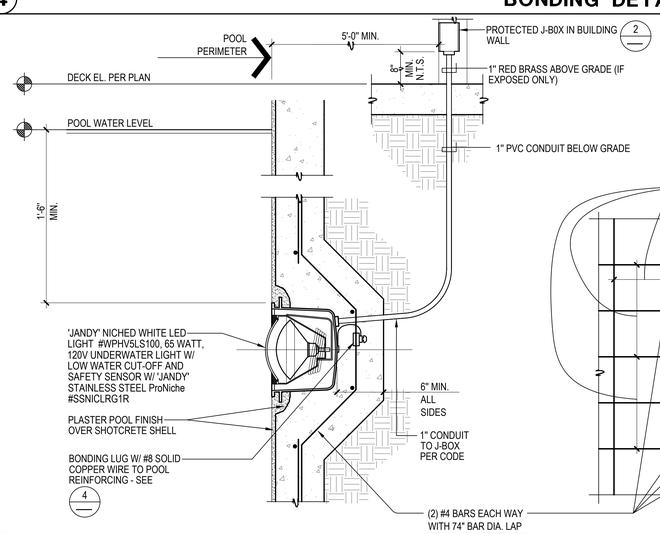


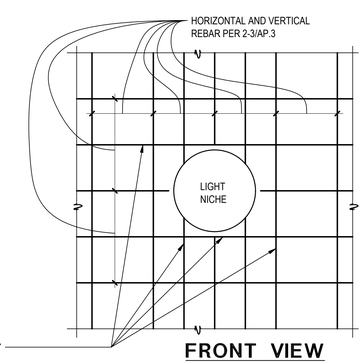
ACCESSIBLE LIFT ANCHOR

NO SCALE

4 BONDING DETAILS

NO SCALE





FRONT VIEW

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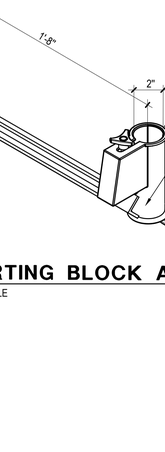
6 UNDERWATER LED LIGHT (CONCRETE WALL)

1-1/2"=1'-0"

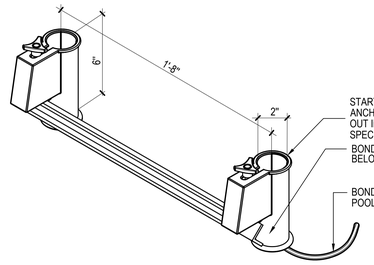
2 UNDERWATER LIGHT JUNCTION BOX CONCRETE SURROUND DETAIL

1"=1'-0"

FRONT ELEVATION



RIGHT SIDE ELEVATION



STARTING BLOCK ANCHOR

NO SCALE

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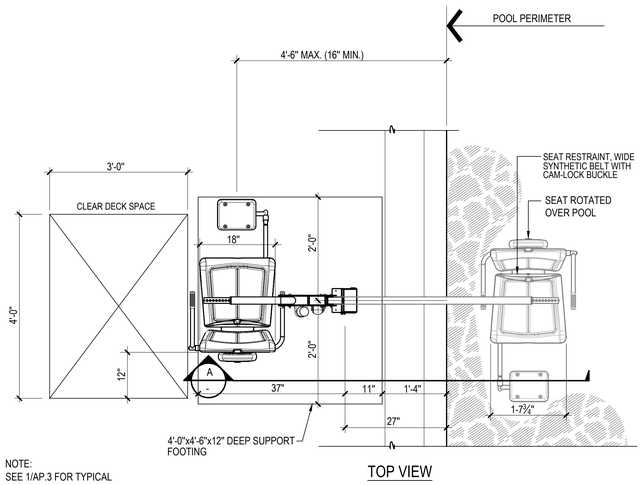
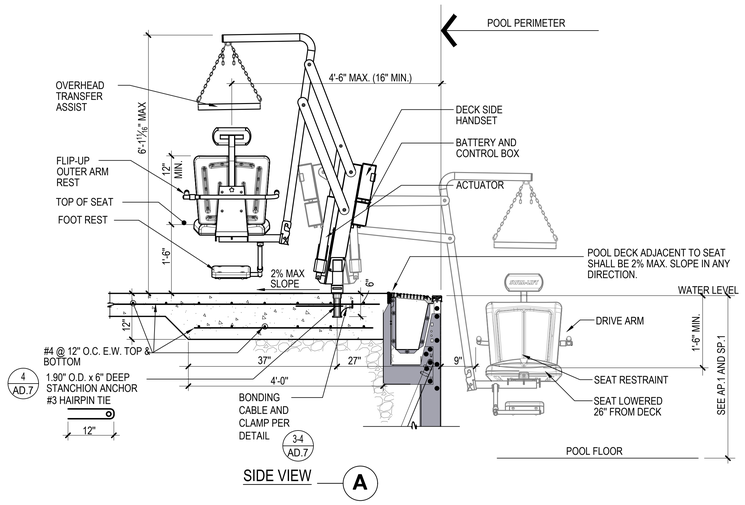


TOP VIEW



SIDE VIEW — A

NOTES:

1. "SPECTRUM" TRAVELER XRC 500 #26705 (500 lb. CAPACITY MIN.)
2. GUSSET COVER PLATE TO BE ATTACHED REQUIRING A TOOL FOR REMOVAL.
3. CONTRACTOR SHALL PROVIDE COVER FOR LIFT 'SPECTRUM' #27365; EXTRA BATTERY PACK 'SPECTRUM' #13257; AND TRANSPORTER CART 'SPECTRUM' #26060.
4. REFER TO ARCH. PLANS FOR LOCATION OF ACCESSIBLE LIFT BATTERY CHARGE STATION.
5. POOL LIFT SHALL BE LOCATED WHERE THE WATER LEVEL IS AT LEAST 36" AND DOES NOT EXCEED 48" DEEP , UNLESS ENTIRE POOL IS GREATER THAT 48" DEEP. (CBC SECTION 11B-1009.2.1)
6. ON THE RAISED POSITION, THE CENTERLINE OF THE SEAT SHALL BE LOCATED OVER THE DECK AND 16" MINIMUM FROM THE EDGE OF THE POOL. THE DECK SURFACE BETWEEN THE CENTERLINE OF THE SEAT AND THE POOL EDGE SHALL HAVE A 2% MAX. SLOPE. (CBC SECTION 11B-1009.2.2)
7. CLEAR DECK SPACE SHALL BE PROVIDED ON SIDE OF SEAT OPPOSITE THE WATER PARALLEL TO THE WATER 36" WIDE x 48" MINIMUM FROM A LINE LOCATED 12" BEHIND THE REAR EDGE OF THE SEAT. THE CLEAR SPACE SHALL HAVE A 2% MAX. SLOPE. (CBC SECTION 11B-1009.2.3)
8. THE HEIGHT OF THE LIFT SEAT SHALL BE DESIGNED TO ALLOW A STOP AT 17" MIN. TO 19" MAX. MEASURED FROM THE DECK TO THE TOP OF THE SEAT SURFACE WHEN IN THE RAISED POSITION. (CBC SECTION 11B-1009.2.4)
9. THE SEAT SHALL BE RIGID AND 17" MIN. TO 19" MAX. WIDE. THE LIFT SEAT SHALL HAVE A BACK SUPPORT 12" MIN. TALL. (CBC SECTION 11B-1009.2.4)
10. FOOTRESTS SHALL BE PROVIDED, EXCEPT FOR SPA LIFTS, AND SHALL MOVE WITH THE SEAT. LIFT SHALL HAVE TWO ARMRESTS. THE ARMREST POSITIONED OPPOSITE THE WATER SHALL BE REMOVABLE OR SHALL FOLD CLEAR OF THE SEAT WHEN THE SEAT IS IN THE RAISED POSITION. (CBC SECTION 11B-1009.2.6)
11. THE LIFT SHALL BE CAPABLE OF UNASSISTED OPERATION VIA HANDSETS FROM BOTH THE DECK SEAT AND WATER. CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND (WITHOUT REQUIRING TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM) AND SHALL BE UNOBSTRUCTED WHEN THE LIFT IS IN USE (CBC SECTION 11B-309.4). LIFT MUST BE STABLE AND NOT PERMIT UNINTENDED MOVEMENT WHEN A PERSON IS GETTING INTO OR OUT OF THE SEAT. (CBC SECTION 11B-1009.2.7)
12. THE LIFT SHALL BE DESIGNED SO THAT THE SEAT WILL SUBMERGE TO A WATER DEPTH OF 18" MIN. BELOW THE STATIONARY WATER LEVEL. (CBC SECTION 11B-1009.2.8)
13. LIFT SEAT MUST HAVE AN OCCUPANT RESTRAINT FOR USE BY THE OCCUPANT OF THE SEAT AND THE RESTRAINT MUST MEET THE STANDARDS FOR OPERABLE CONTROLS IN COMPLIANCE WITH CBC SECTION 11B-1009.2.4 AND SECTION 11B-309.

1 **ACCESSIBLE LIFT** 3/4"=1'-0"

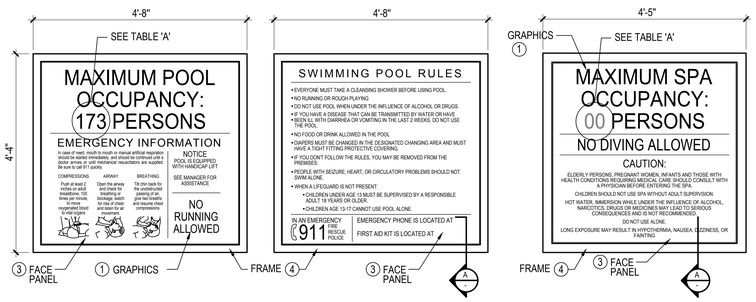
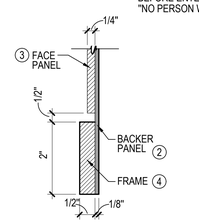


TABLE 'A'	
POOL TYPE	OCCUPANCY LOAD
SWIMMING POOL	173
ACTIVITY POOL	131
SPA	5

REQUIRED POOL SIGNAGE:

1. ARTIFICIAL RESPIRATION DIAGRAMS (POSTED WITHIN ENCLOSURE AND CLEARLY VISIBLE).
2. EMERGENCY PHONE LOCATION AND FIRST AID KIT LOCATION (POSTED CLEARLY VISIBLE TO PATRONS).
3. OCCUPANCY LOAD SIGN FOR: SWIMMING POOL (LETTERS 4" HIGH PLACED IN PLAIN VIEW NEAR ENTRANCE)
4. POOL RULES TEXT SIGNAGE SHALL BE 1" MIN. IN LETTER HEIGHT.
5. ANY ADDITIONAL REQUIRED SIGNAGE PER LOCAL HEALTH DEPT. SHALL BE PROVIDED BY CONTRACTOR.

PLACE SIGNAGE AT ENTRANCE TO POOL ENCLOSURE OR ON A WALL OF THE DRESSING ROOM WHICH READS: "ALL PERSONS ARE REQUIRED TO TAKE A CLEANSING SHOWER BATH BEFORE ENTERING THE POOL."
"NO PERSON WITH A COMMUNICABLE DISEASE IS ALLOWED TO USE THE POOL."



A SECTION
6" = 1'-0"

SIGNAGE NOTES AND SPECIFICATIONS:

1. 1/8" THICK PAINTED ALUMINUM BACKER PANEL.
2. SILKSCREENED COPY/GRAPHICS WITH SATIN CLEAR COAT.
3. 1/4" THICK PAINTED ALUMINUM FACE PANEL WITH SILKSCREENED COPY/GRAPHICS. ATTACH TO 1/8" THICK PAINTED ALUMINUM BACKER PANEL USING 'VHB' TAPE AND SILICONE ADHESIVE.
4. 2" WIDE x 1/2" THICK PAINTED ALUMINUM SIGN FRAME ADHERED TO 1/8" THICK PAINTED ALUMINUM BACKER USING 'LORDS' ADHESIVE AS REQUIRED. VERTICAL SECTIONS OF FRAME TO BE RECTANGULAR TUBE. FILL AND SAND SEAM ALONG EDGE AND FACE PRIOR TO PAINTING.

NOTES:

1. COORDINATE SIGNAGE PLACEMENT AND COLOR SCHEME WITH ARCHITECT/OWNER PRIOR TO INSTALLATION.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF PROPOSED SIGNAGE FOR REVIEW.

2 **POOL SIGNAGE** 3/4"=1'-0"

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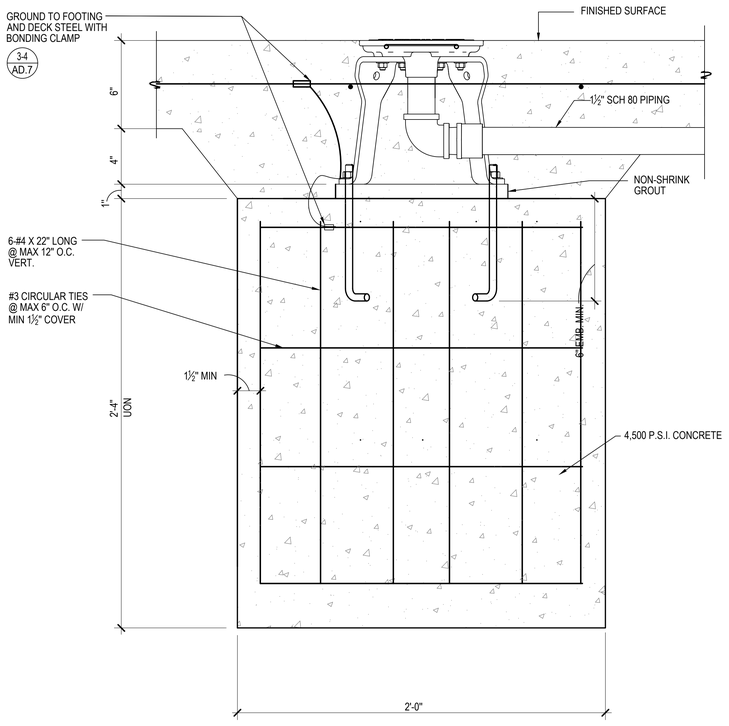
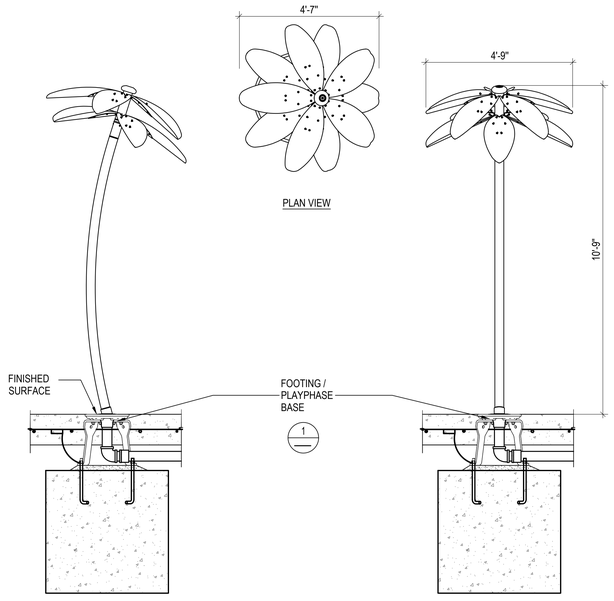


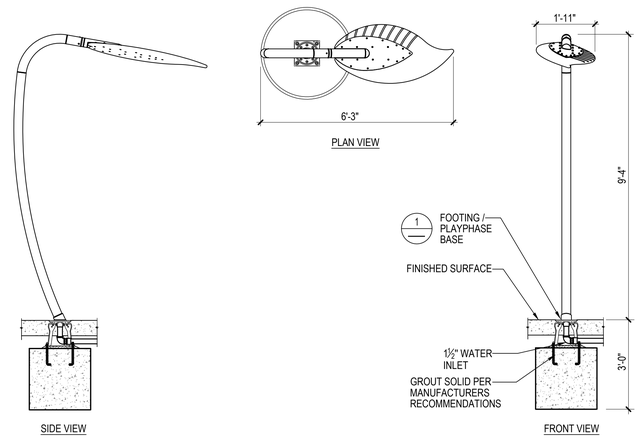
NOTE

ALL FOUNDATIONS SHALL BEAR AT LEAST 36 INCHES BELOW FINISHED GRADE TO PROVIDE FROST PROTECTION, DEVELOP BEARING CAPACITY AND MITIGATE POTENTIAL SHRINK/SWELL EFFECTS OF ON-SITE HIGHLY PLASTIC SOILS.

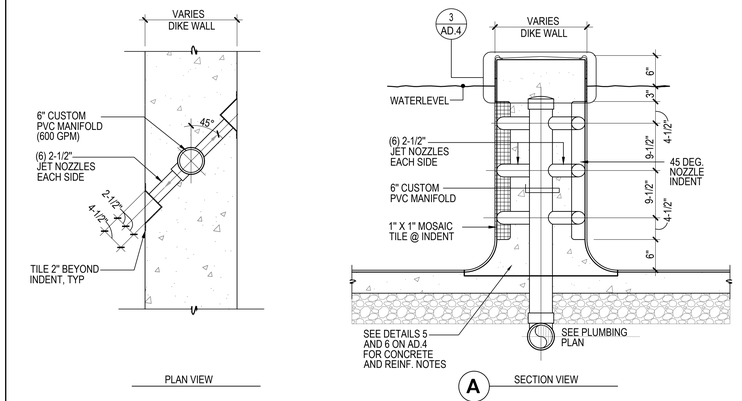
1 PLAYPHASE BASE SECTION DETAIL 3"=1'-0"



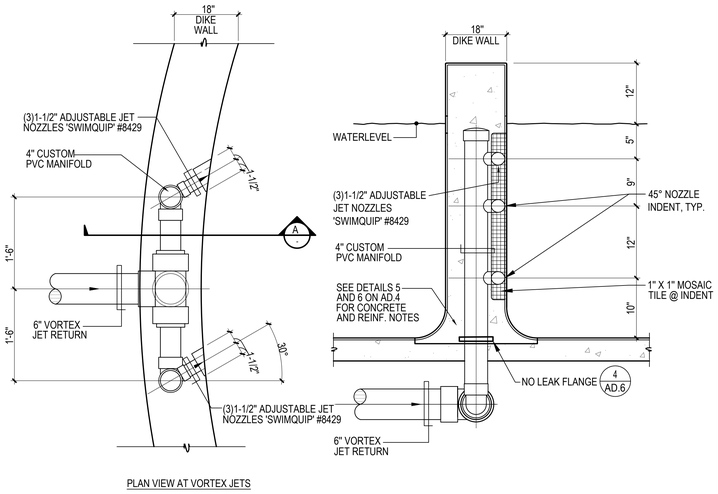
2 DAISY MAE 1/2"=1'-0"



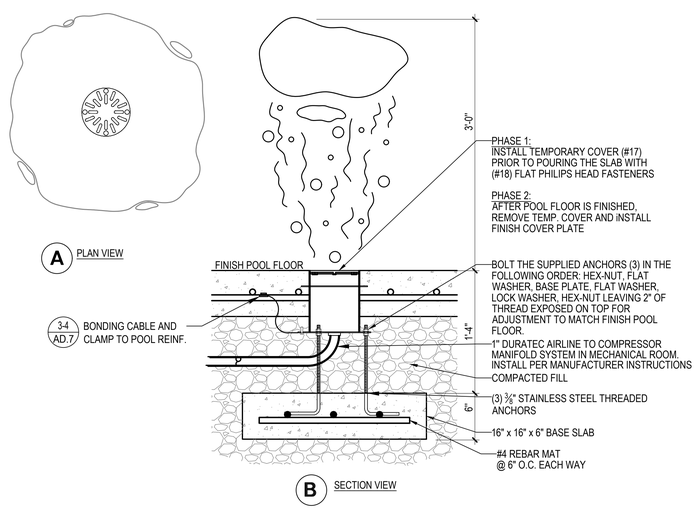
3 LEAFLET 1/2"=1'-0"



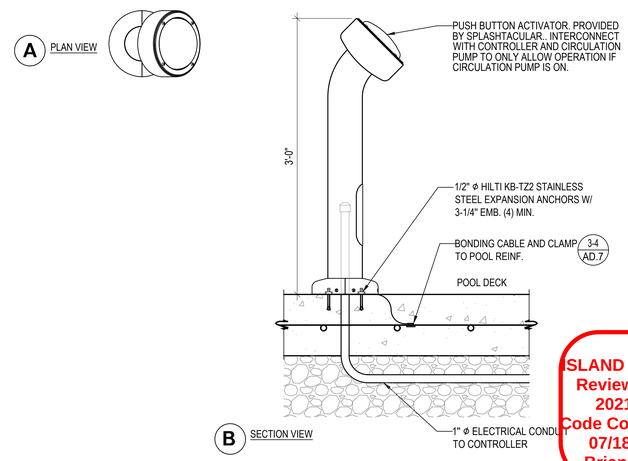
4 RIVER JET DETAIL 1"=1'-0"



5 VORTEX JET DETAIL 1"=1'-0"



6 DEPTH CHARGE 3/4"=1'-0"



7 DEPTH CHARGE ACTIVATOR 3/4"=1'-0"

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South Whidbey PARKS & RECREATION DISTRICT

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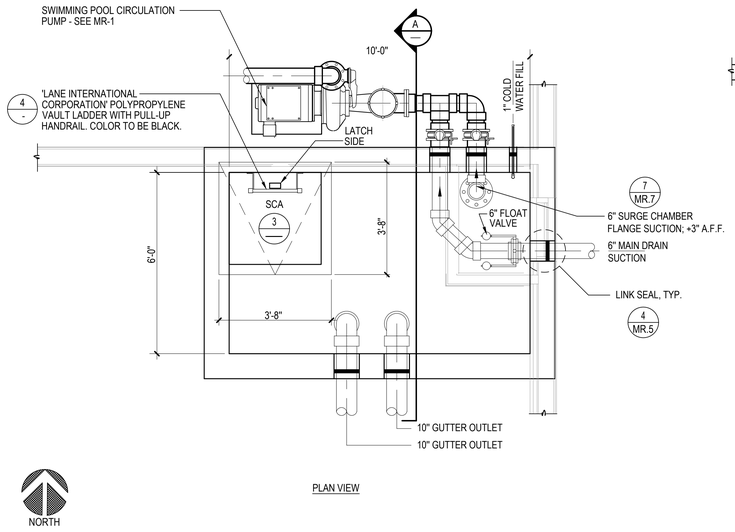
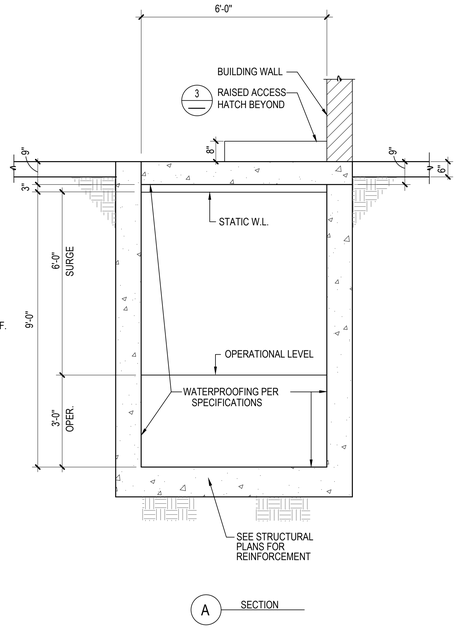
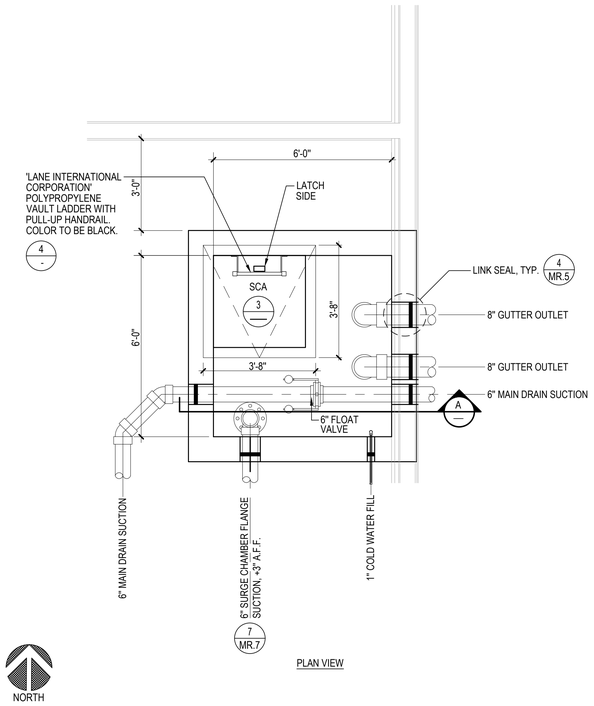
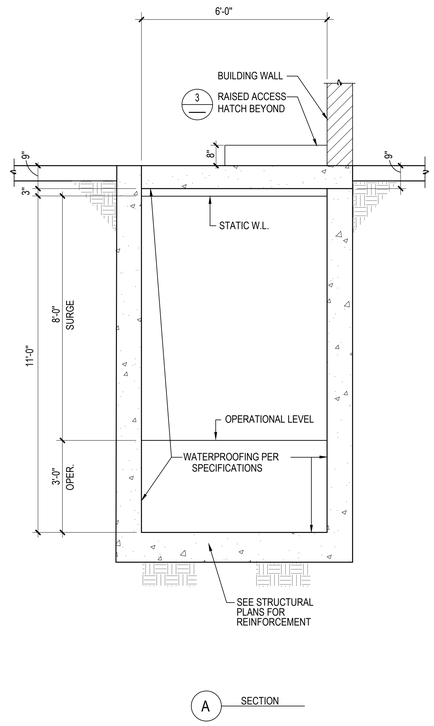




1 SWIMMING POOL SURGE CHAMBER

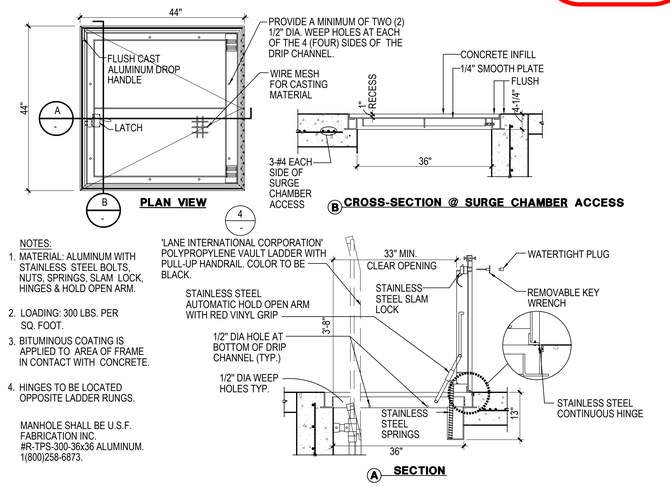
1/2"=1'-0"





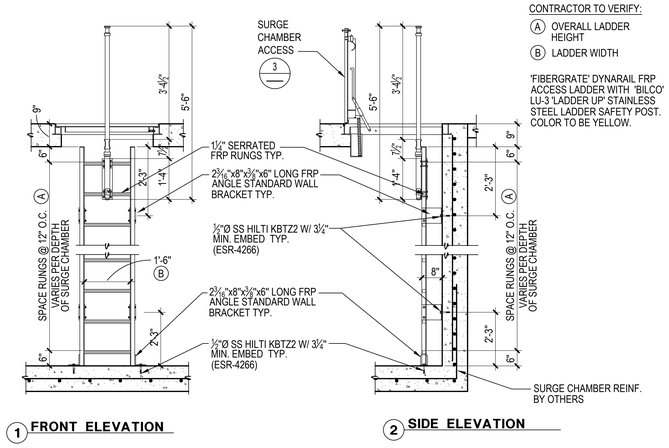
2 ACTIVITY POOL SURGE CHAMBER

1/2"=1'-0"



3 SURGE CHAMBER ACCESS COVER

3/4"=1'-0"



4 SURGE CHAMBER ACCESS LADDER

1/2" = 1'-0"

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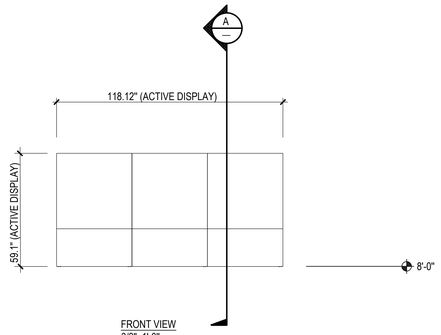
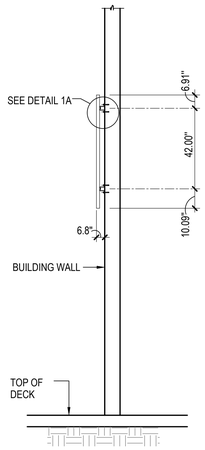
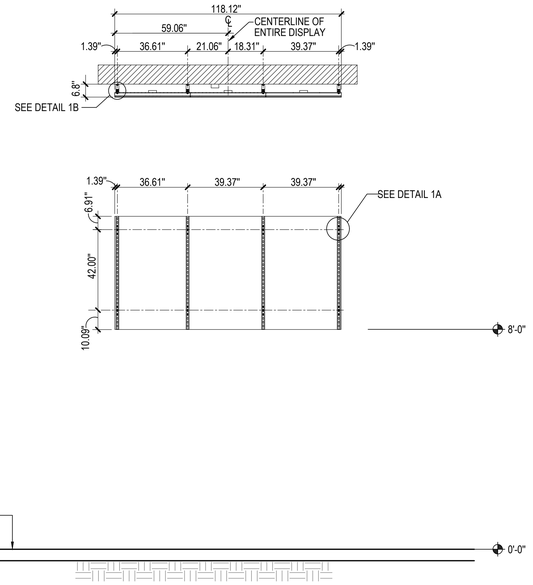


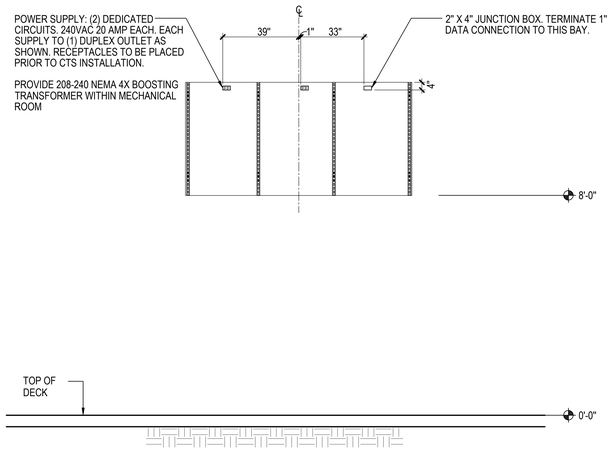
FRONT VIEW
3/8"=1'-0"



SECTION A
3/8"=1'-0"



FRONT VIEW SHOWING BRACKETS AND CABINETS DIMENSIONS
3/8"=1'-0"



FRONT VIEW SHOWING POWER/DATA SUPPLY DIMENSIONS
3/8"=1'-0"

C | M | B - EACH 2-PLEX RECEPTACLE SHALL BE 120V MIN. 20 AMP
- RECEPTACLES TO BE PLACED BEFORE CTS INSTALLATION.

- SINGLE GANG WALL BOX WITH BLANK PLATE FOR DATA CABLE. ONE PER DISPLAY.

- EACH CIRCUIT SHALL BE DEDICATED 120V. MIN. 20 AMPS. CALIFORNIA ELECTRIC CODE REQUIRES A MEANS OF DISCONNECTING SIGNS AT THE LOCATION OF THE SIGN. SCOREBOARD SHALL BE WIRED IN ACCORDANCE WITH NATIONAL ELECTRIC CODE ART. 600-6.

- IT IS EXTREMELY IMPORTANT THAT THE CIRCUITS USED TO POWER THE SCOREBOARD NOT BE SHARED WITH OTHER DEVICES. THE SCOREBOARD IS SENSITIVE TO "NOISE" ON AC POWER LINES.

- DISPLAY SHALL BE EARTH GROUNDED. NUMBER AND LENGTHS OF RODS SHALL MEET CALIFORNIA ELECTRIC CODE.

- DISPLAY MAXIMUM POWER CONSUMPTION: 3,000 WATTS

SPECIFICATIONS:

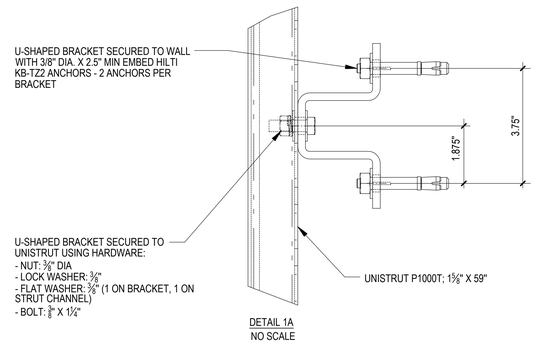
GENERAL:

- ALL STEEL CONSTRUCTION

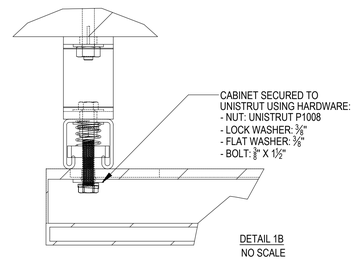
SYSTEM WEIGHTS:

- DISPLAY - APPROXIMATELY 430 LBS.

- DISPLAY MOUNTING CHANNELS SHALL BE ALIGNED USING TEMPLATE.

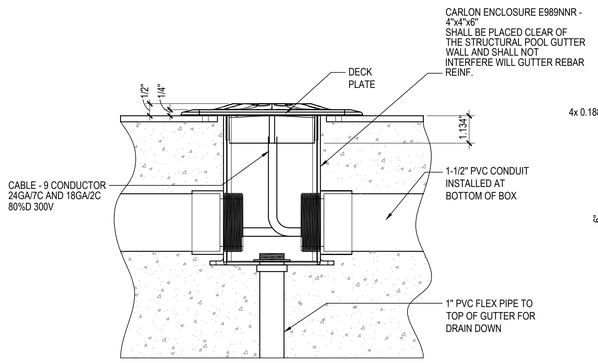


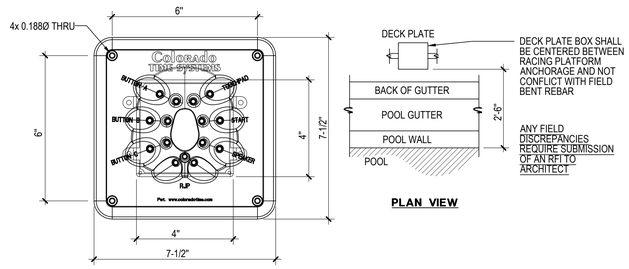
DETAIL 1A
NO SCALE



DETAIL 1B
NO SCALE

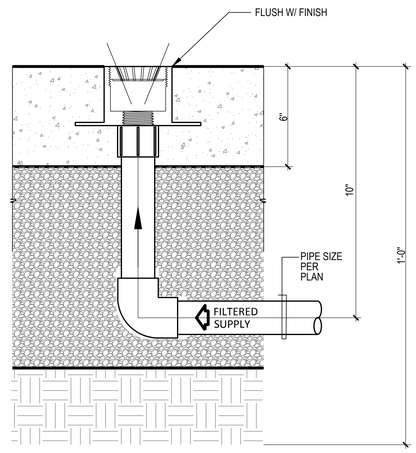
1 SCOREBOARD DETAILS AS NOTED





PLAN VIEW

2 TITANIUM DECK PLATE DETAIL (LOCATED UNDER RACING PLATFORM) NO SCALE



3 DUAL SHOT 3/4"=1'-0"

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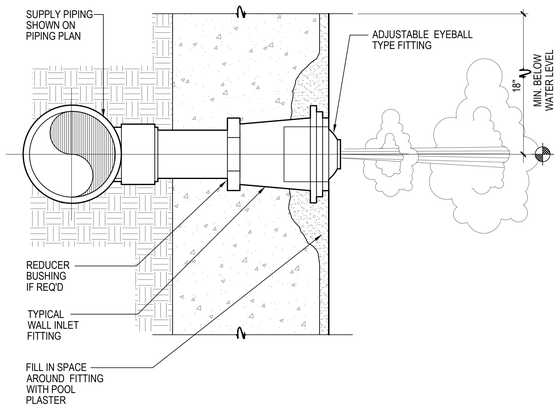
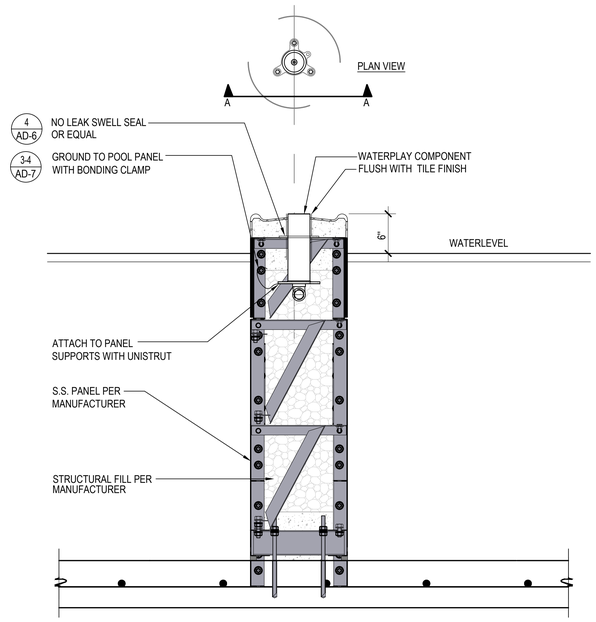


1 **WALL INLET** NO SCALE



2 **SPLIT SPURT** 1-1/2"=1'-0"

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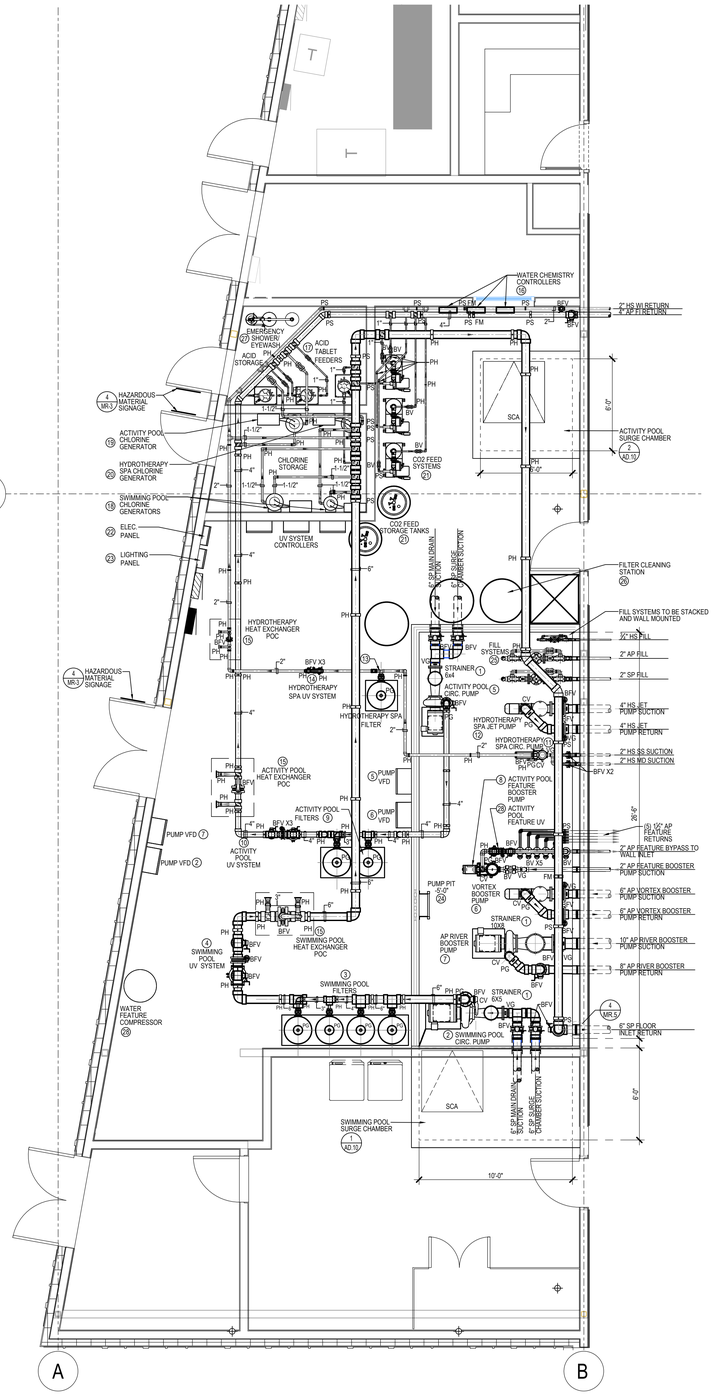

NORTH

GENERAL NOTES

1. THE PIPING SYSTEM SHALL HAVE DIRECTION OF FLOW ARROWS INDICATED ON THE PIPES.
2. PUBLIC POOLS SHALL HAVE A FLOW DIAGRAM OF THE POOL'S PIPING SYSTEM WITH OPERATION INSTRUCTIONS.
3. THE FLOW DIAGRAM AND INSTRUCTIONS SHALL BE AVAILABLE ON THE PREMISES AT ALL TIME
4. ALL MECHANICAL ROOM FLOORS SHALL BE SLOPED A MIN 1/4" PER FOOT TO A DRAIN. SEE ARCHITECTURAL SHEETS FOR SPOT ELEVATIONS AND SLOPES.
5. ALL ELECTRICAL CONDUITS WITHIN MECHANICAL ROOM AND CHEMICAL ROOMS SHALL BE RIGID NEMA 4X SUITABLE FOR CORROSIVE ATMOSPHERE.
6. ALL CHEMICAL FEED SYSTEMS ARE INTERLOCKED WITH THEIR ASSOCIATED CIRCULATION PUMPS AND SHALL NOT OPERATE WHEN THE PUMP IS OFF DURING THE FILTER BACKWASH.
7. SEE 8-AQ304 FOR ELECTRICAL PANEL SCHEDULES
8. ALL VFD'S SHALL BE PROVIDED WITH START-UP, PROGRAMMING AND CERTIFYING BY A MANUFACTURES REPRESENTATIVE

LEGEND

FM	=	FLOWMETER	3 / MR.3
CI	=	CHLORINE INJECTION	
AI	=	ACID INJECTION	
PG/VG	=	VACUUM / PRESSURE GAUGE	5 / MR.3
PH/PS	=	PIPE HANGER/PIPE STAND	4,5,6 / MR.7
BV	=	BALL VALVE	
BFV	=	BUTTERFLY VALVE	
CV	=	CHECK VALVE	
BW	=	BACKWASH	
FD	=	FLOOR DRAIN	
SCA	=	SURGE CHAMBER ACCESS	3 / AD.10

THREE PHASE MOTOR LOADS AT 460V

SWIMMING POOL CIRC. PUMP: 15HP	=	21 AMPS
ACTIVITY POOL CIRC. PUMP: 7.5HP	=	11 AMPS
ACTIVITY POOL VORTEX BOOSTER PUMP: 7.5 HP	=	11 AMPS
ACTIVITY POOL RIVER BOOSTER PUMP: 15 HP	=	21 AMPS
ACTIVITY POOL FEATURE PUMP: 1 HP	=	2.1 AMPS
HYDROTHERAPY SPA BOOSTER PUMP: 5 HP	=	4.8 AMPS

MECHANICAL ANCHORAGE

1. EXPANSION OR WEDGE ANCHORS INTO CONCRETE: HILTI KB TZ 2 (ICC ESR-4266) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
2. EXPANSION OR WEDGE ANCHORS INTO MASONRY: HILTI KB TZ 2 (ICC ESR-4561) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
3. UNDERCUT ANCHORS INTO CONCRETE: HILTI HDA (ICC ESR-1546) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
4. HEAVY DUTY SLEEVE ANCHORS INTO CONCRETE: HILTI HSL-3 (ICC ESR-1545) TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT AND MANUFACTURER'S RECOMMENDATIONS.
5. FASTENERS SHALL BE STAINLESS STEEL.
6. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE STRUCTURAL ENGINEER WILL DETERMINE A NEW LOCATION.
7. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.
8. ANCHORS SHALL BE PROOF-TESTED BY OWNER'S TESTING AND INSPECTION AGENCY.
9. TEST ANCHORS NO SOONER THAN 24 HOURS AFTER INSTALLATION.
10. APPLY TEST LOAD BY ANY METHOD THAT WILL EFFECTIVELY MEASURE THE TENSION OF THE ANCHOR SUCH AS DIRECT PULL WITH A HYDRAULIC JACK, TORQUE WRENCH, OR CALIBRATED SPRING LOADING DEVICES, ETC.
11. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED, PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY A BASE PLATE OR OTHER FIXTURE. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE THE FIXTURE PRIOR TO TESTING.
12. UNLESS OTHERWISE NOTED, PROVIDE MINIMUM EMBEDMENT OF ANCHORS AS SHOWN IN TABLES BELOW.
13. TEST 50% OR ALTERNATE BOLTS IN A GROUP, INCLUDING AT LEAST ONE-HALF THE ANCHORS IN EACH GROUP OF ANCHORS PER ONE OF THE FOLLOWING METHODS AND IN ACCORDANCE WITH CBC 1910A.5.3
    A. HYDRAULIC RAM METHOD: APPLY PROOF TEST LOAD WITHOUT REMOVING THE NUT. IF IT IS NOT POSSIBLE TO TEST WITH THE NUT INSTALLED, REPLACE THE NUT WITH A THREADED COUPLER TO THE LOAD. ANCHOR IS ACCEPTABLE IF NO MOVEMENT IS OBSERVED FOR A MIN. OF 15 SECONDS AT THE TEST LOAD (CBC 1910A.5.5). MOVEMENT MAY BE DETERMINED WHEN THE WASHER UNDER THE NUT BECOMES LOOSE.
    B. TORQUE WRENCH METHOD: TEST ANCHORS TO THE TORQUE LOAD INDICATED IN THE TABLE WITH ONE-HALF TURN OF THE NUT.
14. IF ANY ANCHOR FAILS TESTING, REPLACE ANCHOR AND TEST ADDITIONAL ANCHORS OF THE SAME CATEGORY NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE TESTS PASS, THEN RESUME INITIAL TESTING FREQUENCY.

EQUIPMENT LIST

1. SWIMMING POOL / ACTIVITY POOL STRAINERS: FLUIDTROL RSW SERIES FRP REDUCING BASKET STRAINER: ONE (1) 6"x4", ONE (1) 6"x5" AND ONE (1) 10"X8". EACH WITH ACRYLIC LIDS AND TWO (2) STAINLESS STEEL STRAINERS EA. (150lbs.)
2. SWIMMING POOL CIRCULATION PUMP: 'PACO' #4012-9, 4"x5" TYPE 'LC' END SUCTION CENTRIFUGAL PUMP; 1187 RPM 460V, 3PH; 15HP; RATED AT 475 GPM @ 60 FT. TDH; 76% EFFICIENT; PREMIUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. 'PACO', 'AURORA' OR EQUAL. (760 lbs.) PROVIDE 'SPCS' EkO-FLEX PUMP CONTROL SYSTEM VARIABLE SPEED DRIVE MODEL SPCS015N4X4 SYSTEM 18.9"x9.27"x10.23" DEEP. COORDINATE MOUNTING LOCATION TO MAINTAIN DESIRED CLEARANCES, 460V 3PH. (226 lbs.)
3. SWIMMING POOL FILTERS 'PENTAIR' CCP520 CLEAN AND CLEAR PLUS CARTRIDGE FILTERS. 520 SQ. FT. OF FILTER AREA EACH (1,560 SQ. FT. TOTAL) RATED AT 780 GPM TOTAL (195 GPM EACH). COMPLETE WITH FILTER MANIFOLD PER MANUFACTURERS RECOMMENDATIONS, SEISMIC ANCHORAGE. PROVIDE ALL UTILITIES, PIPING, VALVING, ETC. FOUR (4) TOTAL. (90lbs)
4. SWIMMING POOL ULTRA VIOLET TREATMENT SYSTEM: 'EVOQUA' WAFER UV MODEL WF-125-6-N, VALIDATED AT 660 GPM, 6" FLANGED CONNECTION IN-LINE UV WITH ONE (1) LAMPS @ 2,500 WATTS, 208V 1PH. CONTROL UNIT: 208V 1PH, 23"x31"x12" DEEP. (110 lbs.). PROVIDE PIPING BYPASS, VALVING, ETS EZ VALVE STRAINER AND INSTALLATION AND PIPING PER MANUFACTURER'S RECOMMENDATIONS. ONE (1) SYSTEM TOTAL.
5. ACTIVITY POOL CIRCULATION PUMP: 'PACO' #30127, 4"x3" TYPE 'LC' END SUCTION CENTRIFUGAL PUMP; 1,173 RPM, 460V, 3PH; 7.5HP; RATED AT 250 GPM @ 60 FT. TDH; 70% EFFICIENT; PREMIUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. 'PACO', 'AURORA' OR APPROVED EQUAL. (425 lbs.) PROVIDE 'SPCS' EkO-FLEX PUMP CONTROL SYSTEM VARIABLE SPEED DRIVE MODEL SPCS007N4X4 SYSTEM 19.1"x4.33"x9.65" DEEP. COORDINATE MOUNTING LOCATION TO MAINTAIN DESIRED CLEARANCES, 460V 3PH. (105 lbs.)
6. ACTIVITY POOL VORTEX BOOSTER PUMP: 'JANDY' JCP SERIES, JCP073ATS, 7.5HP, 460V 3PH, SELF PRIMING PUMP, 3450 RPM RATED AT 450 GPM AT 45 FT. TDH, WITH INTEGRAL STRAINER. ONE (1) TOTAL. (346lbs.) TO BE INTERCONNECTED WITH CIRCULATION PUMP TO PREVENT USE WHEN CIRCULATION PUMP IS NOT IN OPERATION. PUMP TO BE PROVIDED WITH WITH ACCUDRIVE #AD075X-4603-N4X 7.5HP VARIABLE FREQUENCY DRIVE
7. ACTIVITY POOL RIVER BOOSTER PUMP: 'PACO' #6012-3, 6"x8"x12" TYPE 'LC' END SUCTION CENTRIFUGAL PUMP; 1,150 RPM, 460V, 3PH; 15HP; RATED AT 1,200 GPM @ 35 FT. TDH; 83% EFFICIENT; PREMIMUM EFFICIENCY TEFC MOTOR; EPOXY COAT ALL WET SURFACES. 'PACO', 'AURORA' OR APPROVED EQUAL. (760 lbs.) INTERCONNECT WITH CIRCULATION PUMP SO IT CAN ONLY OPERATE WHEN CIRCULATION PUMP IS ON. PROVIDE 'SPCS' EkO-FLEX PUMP CONTROL SYSTEM VARIABLE SPEED DRIVE MODEL SPCS015N4X4 SYSTEM 18.9"x8.27"x10.23" DEEP. COORDINATE MOUNTING LOCATION TO MAINTAIN DESIRED CLEARANCES, 460V 3PH. (102 lbs.)
8. ACTIVITY POOL FEATURE PUMP: 'JANDY' STEALTH SERIES, SHPF1.0-3PH; 1HP; 460V 3PH; RATED AT 47 GPM AT 60 FT TDH WITH INTEGRAL STRAINER. ONE (1) TOTAL. (64 lbs.)
9. ACTIVITY POOL FILTERS 'PENTAIR' CCP520 CLEAN AND CLEAR PLUS CARTRIDGE FILTERS. 520 SQ. FT. OF FILTER AREA EACH (1,040 SQ. FT. TOTAL) RATED AT 300 GPM. COMPLETE WITH WITH FILTER MANIFOLD PER MANUFACTURERS RECOMMENDATIONS, SEISMIC ANCHORAGE. PROVIDE ALL UTILITIES, PIPING, VALVING, ETC. TWO (2) TOTAL. (90lbs)
10. ACTIVITY POOL ULTRA VIOLET TREATMENT SYSTEM: 'EVOQUA' WAFER UV MODEL WF-115-4-N, VALIDATED AT 396 GPM, 4" FLANGED CONNECTION IN-LINE UV WITH ONE (1) LAMPS @ 1,500 WATTS, 208V 1PH. CONTROL UNIT: 208V 1PH, 20"x20"x10" DEEP. (66 lbs.). PROVIDE PIPING BYPASS, VALVING, ETS EZ VALVE STRAINER AND INSTALLATION AND PIPING PER MANUFACTURER'S RECOMMENDATIONS. ONE (1) SYSTEM TOTAL.
11. HYDROTHERAPY SPA CIRCULATION PUMP: 'JANDY' SHPF1.0-3PH, 1HP, 3PH PUMP; 208V, SELF PRIMING PUMP, 3450 RPM RATED AT 82 GPM AT 70 FT. TDH, WITH INTEGRAL STRAINER. ONE (1) TOTAL. (57 lbs.) PUMP TO BE PROVIDED WITH WITH ACCUDRIVE #AD0-2303-N4X 1HP VARIABLE FREQUENCY DRIVE. SIGNET DIGITAL FLOWMETER AND ALL NECESSARY COMPONENTS FOR A FULLY FUNCTIONAL SYSTEM. VFD SHALL HAVE A USER LOCK OUT; PROGRAMMED WITH NORMAL FLOW RATE OF 60 GPM. ONE (1) TOTAL.
12. HYDROTHERAPY SPA BOOSTER PUMP: 'JANDY' SHPF 5.0 3PH PUMP; 460V 3PH, 5HP WITH DAN FOSS 5HP VARIABLE FREQUENCY DRIVE; SELF PRIMING PUMP, 3450 RPM RATED AT 225 GPM AT 60 FT. TDH, WITH INTEGRAL STRAINER. ONE (1) TOTAL. (95 lbs.) PUMP TO BE PROGRAMMED WITH NORMAL FLOW RATE OF 225 GPM. ONE (1) TOTAL.
13. HYDROTHERAPY SPA FILTER 'PENTAIR' CCP520 CLEAN AND CLEAR PLUS CARTRIDGE FILTERS. 520 SQ. FT. OF FILTER AREA RATED AT 150 GPM. COMPLETE WITH SEISMIC ANCHORAGE. PROVIDE ALL UTILITIES, PIPING, VALVING, ETC. ONE (1) TOTAL. (90lbs)
14. HYDROTHERAPY SPA ULTRA VIOLET TREATMENT SYSTEM: 'EVOQUA' WAFER UV MODEL WF-115-3-N, VALIDATED AT 242 GPM, 3" FLANGED CONNECTION IN-LINE UV WITH ONE (1) LAMPS @ 1,500 WATTS, 208V 1PH. CONTROL UNIT: 208V 1PH, 20"x20"x10" DEEP. (66 lbs.). PROVIDE PIPING BYPASS, VALVING, ETS EZ VALVE STRAINER AND INSTALLATION AND PIPING PER MANUFACTURER'S RECOMMENDATIONS. ONE (1) SYSTEM TOTAL.
15. SWIMMING POOL, ACTIVITY POOL AND HYDROTHERAPY SPA HEAT EXCHANGER POC, SEE MEP HEAT EXCHANGER AND FOR PLUMBING CONTINUATION.
16. WATER CHEMISTRY CONTROLLER(S): PROVIDE EACH CHEMICAL CONTROLLER WITH ETHERNET POC
    - SWIMMING POOL: 'BECSYS' BECSYS7-XS1GP1XOLLBX
    - ACTIVITY POOL: 'BECSYS' BECSYS7-XS1GP1XOLLBX
    - HYDROTHERAPY SPA: 'BECSYS' BECSYS7-XS1GP1XOLLBX
17. ACID TABLET FEEDER(S): PROVIDE PPG 'ACID-RITE' UNIT MODEL AR-450, 45lb. STORAGE. COMPLETE WITH PIPING, VALVING, VENTURI INJECTION AND 3/4HP BOOSTER PUMPS. NSF 50 CERTIFIED. THREE (3) TOTAL.
18. SWIMMING POOL SALT WATER CHLORINE GENERATION SYSTEM: 'CHLOR-KING' CHLOR-25, 25lbs/DAY CAPACITY, ELECTROLYTIC PROCESS HYDROCHLOROUS ACID REVERTING TO SODIUM CHLORIDE, 208V,15 AMP, NEMA 4X ENCLOSURE, 0.5% SALINITY OPERATIONAL LEVEL, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. TWO (2) TOTAL.
19. ACTIVITY POOL SALT WATER CHLORINE GENERATION SYSTEM: 'CHLOR-KING' CHLOR-25, 25lbs/DAY CAPACITY, ELECTROLYTIC PROCESS HYDROCHLOROUS ACID REVERTING TO SODIUM CHLORIDE, 208V,15 AMP, NEMA 4X ENCLOSURE, 0.5% SALINITY OPERATIONAL LEVEL, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ONE (1) TOTAL.
20. HYDROTHERAPY SPA SALT WATER CHLORINE GENERATION SYSTEM: 'CHLOR-KING' CHLOR-5.0, 5lbs/DAY CAPACITY, ELECTROLYTIC PROCESS HYDROCHLOROUS ACID REVERTING TO SODIUM CHLORIDE, 120V,15 AMP, NEMA 4X ENCLOSURE, 0.5% SALINITY OPERATIONAL LEVEL, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ONE (1) TOTAL.
21. CARBON DIOXIDE STORAGE FEED SYSTEM: PROVIDE TWO (2) 'NOVO-600', 600lb. STORAGE TANKS WITH SEISMIC RESTRAINTS AND REMOTE FILL PORTS (OPERATING WEIGHT = 594 LIQUID lbs. EA.) PROVIDE THREE (3) EKO[1] PH-MTS CO_2 HIGH EFFICIENCY FEED SYSTEMS WITH ALKALINITY CONTROL, 0 TO 160 SCFH FEED CAPACITY BOOSTER PUMP, PIPING INJECTOR, FLOWMETER, RELAYS AND ACID FEED ALKALINITY CONTROL TIED TO ACID TABLET FEEDERS. (920bs EA.) HARD PIPE TO POINT OF INJECTION. PROVIDE WITHIN MECHANICAL ROOM HARD WIRED 'ANALOX' #API KIT CO2 DETECTOR WITH AUDIBLE AND VISUAL ALARMS, UL 1971 STANDARD LISTED, ONE (1) TOTAL.
22. ELECTRICAL: PROVIDE ALL ELECTRICAL WIRING, CONDUIT, PANEL(S), STARTER/DISCONNECT INTERCONNECT(S) ETC. AS REQUIRED FOR PROPER EQUIPMENT INSTALLATION PER MANUFACTURERS RECOMMENDATIONS AND SHOP DRAWINGS. COORDINATE ALL WORK WITH OTHER TRADES AS REQUIRED. REFER TO ELEC. PLANS FOR ALL ADDITIONAL INFO.
23. LIGHTING CONTACTOR PANEL: 'ALLEN BRADLEY' #500L; OR APPROVED EQUAL. PANEL SHALL BE MOUNTED IN A NEMA 12 HINGED COVER - LOCKABLE ENCLOSURE. CONTACTORS TO BE SWITCHED BY MOMENTARY SWITCH EQUAL TO 'HUBBELL' #1557 MOUNTED IN J-BOX IN MECHANICAL EQUIPMENT ROOM. REFER TO ELECTRICAL PLANS FOR LOCATION OF OWNER COORDINATED REMOTE UNDERWATER LIGHT SWITCH.
24. PUMP PIT: 10'-0"x26'-6"x5'-0" DEEP. PROVIDE 2"Ø GALV. STANDARD STEEL PIPE GUARDRAIL. PROVIDE FLOOR DRAIN TO WASTE. PROVIDE WATERPROOFING PER SPECIFICATIONS. ACCESS LADDER TO BE 'FIBERGRATE' DYNARAIL FRP OR EQUAL.
25. FILL SYSTEM(S):
    - SWIMMING / ACTIVITY POOL 2" 'CLA-VAL' FILL SYSTEM TO INCLUDE 2" 'CLA-VAL' SOLENOID CONTROL VALVE #136-01BY, 2" DUCT IRON, EPOXY COATED BODY WITH CAST IRON DISC RETAINER AND DIAPHRAGM WASHER, BRONZE TRIM, FLANGED GLOBE PATTERN, 120V AT 60HZ. SOLENOID WIRING SHALL BE WIRED TO WATER CHEMISTRY CONTROLLER. PROVIDE 6" AIR GAP AT FILL POINT. TWO (2) TOTAL. CONNECTED TO SOURCE DOWN STREAM OF REDUCED PRESSURE BACKFLOW PREVENTOR.
    - HYDROTHERAPY SPA 1" 'CLA-VAL' FILL SYSTEM TO INCLUDE 1" 'CLA-VAL' SOLENOID CONTROL VALVE #136-01BY, 1" DUCT IRON, EPOXY COATED BODY WITH CAST IRON DISC RETAINER AND DIAPHRAGM WASHER, BRONZE TRIM, FLANGED GLOBE PATTERN, 120V AT 60HZ. SOLENOID WIRING SHALL BE WIRED TO WATER CHEMISTRY CONTROLLER. PROVIDE 3/4" FILL AT HYDROTHERAPY SPA WALL ABOVE WATERLINE, ONE (1) TOTAL. CONNECTED TO SOURCE DOWN STREAM OF REDUCED PRESSURE BACKFLOW PREVENTOR.
26. CARTRIDGE FILTER CLEANING STATION: THREE TANK RINSE AND WASH STATION W/ (3) THREE CHEMTAINER CYLINDRICAL TANKS AND STANDS #TC1840AP, 30 GAL CAPACITY. EACH TANK SHALL BE PLUMBED TOGETHER AT THE BASE. ALL PLUMBING SHALL SLOPE TO AN ADJACENT FLOOR SINK WITH 2" SCH 80 PVC. EACH TANK SHALL HAVE A DEDICATED BALL VALVE FOR FLOW CONTROL.
27. EYEWASH/SHOWER: HAWS MODEL #8309WC BARRIER FREE COMBINATION SHOWER AND EYE/FACE WASH WITH CORROSION RESISTANT PROTECTION. SEE MEP SHEETS FOR SUPPLY PIPING. ONE (1) TOTAL.
28. AIR COMPRESSOR: DEPTH CHARGE COMPRESSOR WITH MANIFOLD SYSTEM, CAT-60040CAD, 4HP, 220V, 60 GALLON, OIL FREE, ULTRA QUIET COMPRESSOR WITH 'ARO' 3/4" WATER SEPARATION / REGULATOR KIT, 0 TO 140PSI ADJUSTMENT RANGE #C38451-610 WITH DEPTH CHARGE AIR MANIFOLD SYSTEM AND 'ACME' T-1-81051 208V TO 230V BOOSTING TRANSFORMER. CONTRACTOR TO COORDINATE WITH ALL TRADES AND INSTALL PER EACH MANUFACTURERS INSTALLATION AND OPERATIONS INSTRUCTIONS.

WEDGE OR EXPANSION ANCHOR EMBEDMENT DEPTH AND TEST LOAD

SIZE	HILTI KB TZ 2 (SS) ANCHORS IN CONCRETE (ESR-4266)		KB TZ 2 (SS) ANCHORS IN CMU (ESR-4561)	
	MIN. EMBED (heff)	TORQUE LOAD (FT-LBS)	MIN. EMBED (heff)	TORQUE LOAD (FT-LBS)
1/4" DIA.	1-1/2"	6	1-1/2"	6
3/8" DIA.	2-1/2"	30	2-1/2"	15
1/2" DIA.	3-1/4"	40	3-1/4"	25
5/8" DIA.	4"	60	4"	35
3/4" DIA.	4-3/4"	125	4-3/4"	50

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1 **MECHANICAL ROOM PLAN** 1/4"=1'-0"

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South WhidBey PARKS & RECREATION DISTRICT

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MECHANICAL ROOM PLAN

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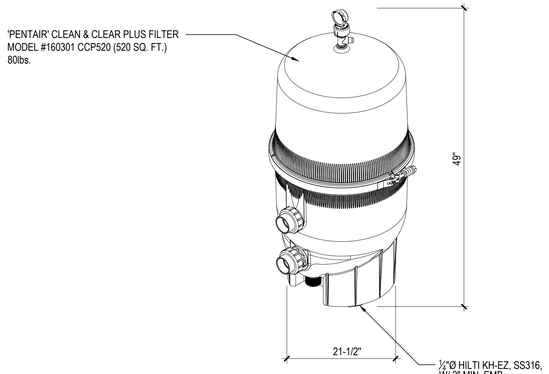
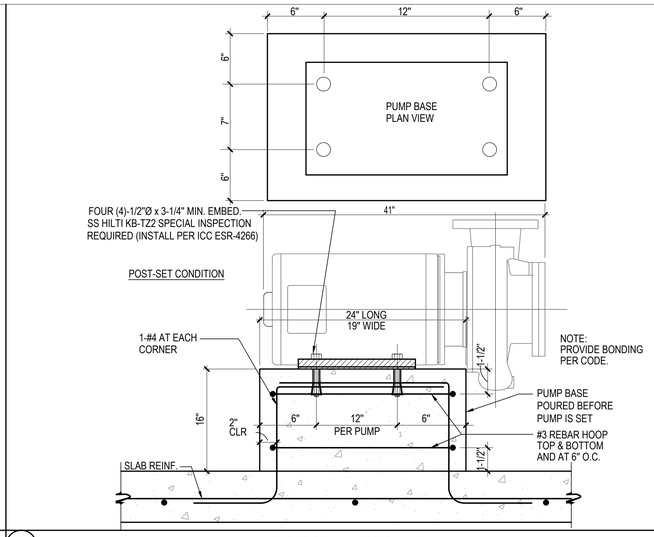
PROJECT NO: 2022021.000

SHEET: **MR.1**

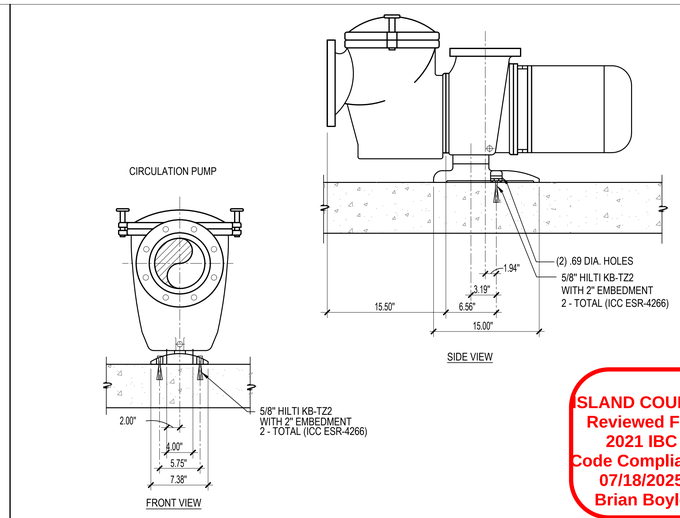


1 FILTER ANCHORAGE

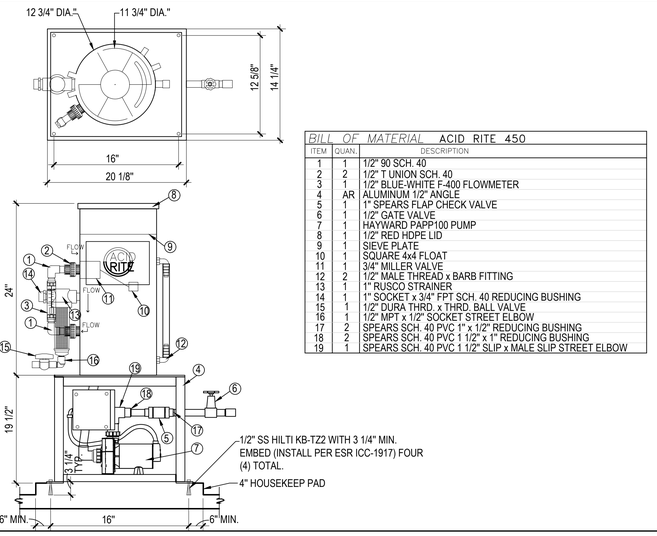
NO SCALE



2 PUMP ANCHORAGE



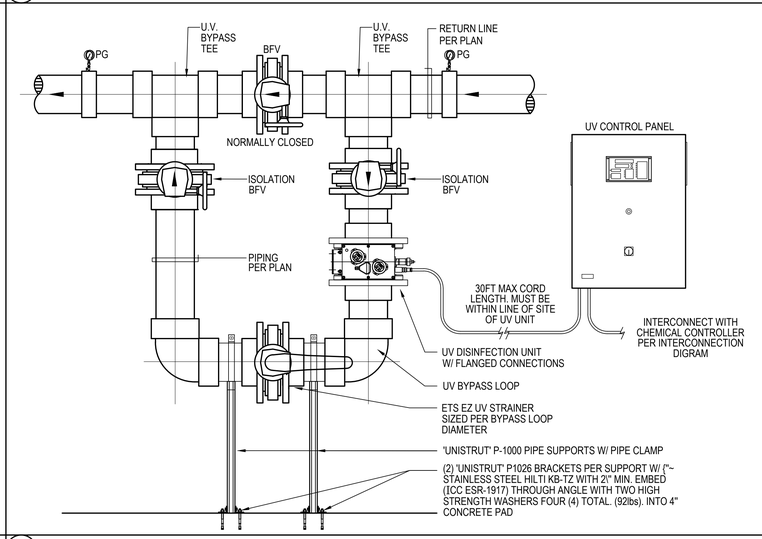
3 PUMP ANCHORAGE



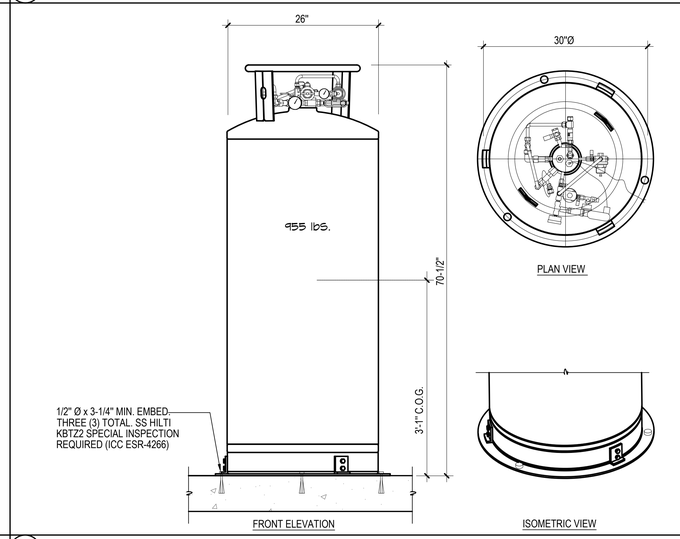
BILL OF MATERIAL ACID RITE 450		
ITEM	QUAN.	DESCRIPTION
1	1	1/2" 90 SCH. 40
2	2	1/2" T UNION SCH. 40
3	1	1/2" BLUE-WHITE F-400 FLOWMETER
4	AR	ALUMINUM 1/2" ANGLE
5	1	1" SPEARS FLAP CHECK VALVE
6	1	1/2" GATE VALVE
7	1	HAYWARD PAPP100 PUMP
8	1	1/2" RED HDPE LID
9	1	SIEVE PLATE
10	1	SQUARE 4x4 FLOAT
11	1	3/4" MILLER VALVE
12	2	1/2" MALE THREAD x BARB FITTING
13	1	1" RUSCO STRAINER
14	1	1" SOCKET x 3/4" FPT SCH. 40 REDUCING BUSHING
15	1	1/2" DURA THRD. x THRD. BALL VALVE
16	1	1/2" MPT x 1/2" SOCKET STREET ELBOW
17	2	SPEARS SCH. 40 PVC 1" x 1/2" REDUCING BUSHING
18	2	SPEARS SCH. 40 PVC 1 1/2" x 1" REDUCING BUSHING
19	1	SPEARS SCH. 40 PVC 1 1/2" SLIP x MALE SLIP STREET ELBOW

4 ACID TABLET FEEDER

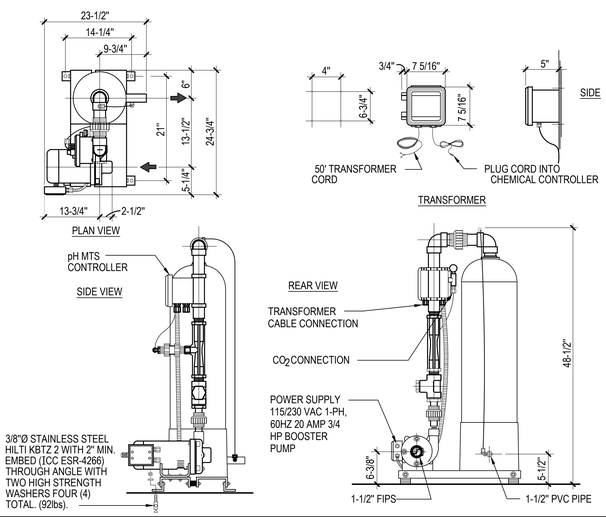
NO SCALE



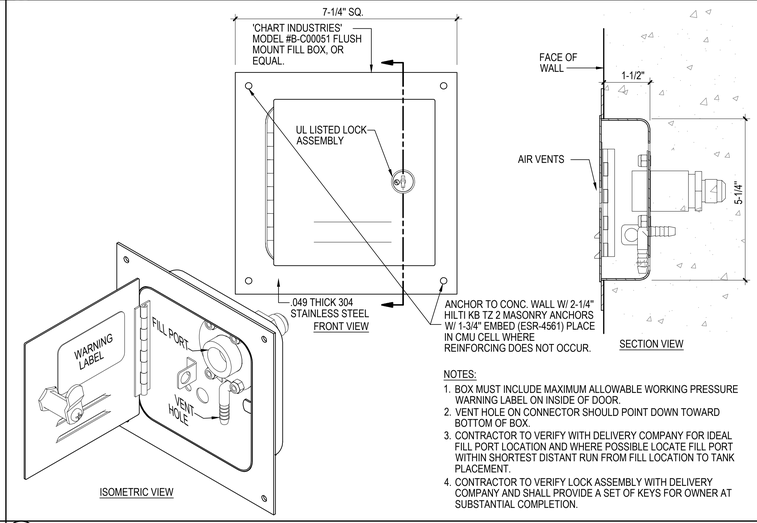
5 ECF U.V. DISINFECTION UNIT INSTALLATION DETAIL



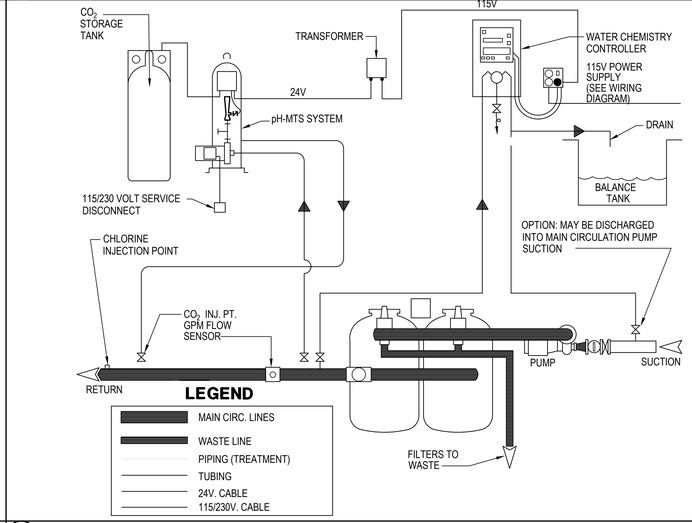
6 C02 TANK ANCHORAGE DETAIL



7 CARBON DIOXIDE pH MTS CONTROLLER



8 CO2 FLUSH MOUNT FILL BOX



9 TYP. CARBON DIOXIDE pH-MTS INSTALLATION

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DRAWN: KK/AP
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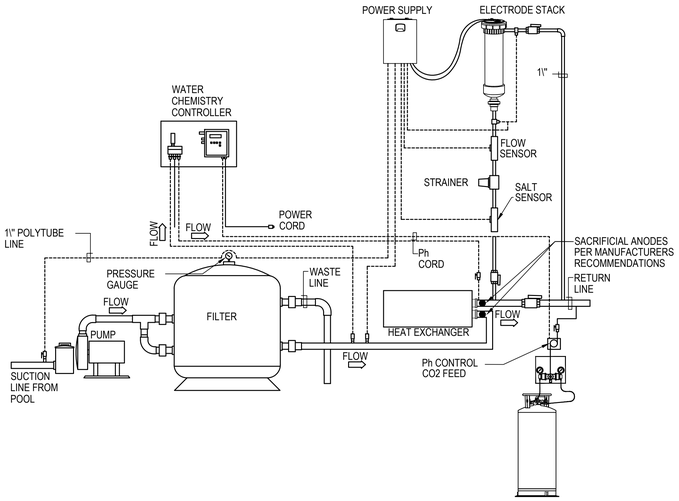
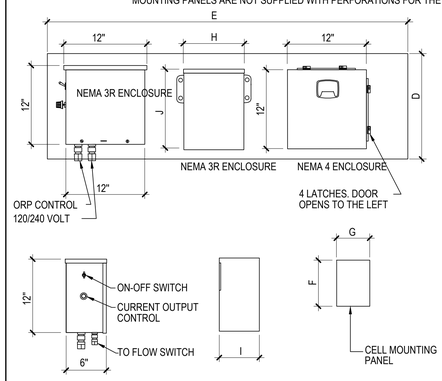
MR.2



1 CHLORINE GENERATION/SALT INJECTION INSTALL. NO SCALE

NOTES:
FOR DRY WALL & WOOD STUDS USE 2" #10 STAINLESS WOOD SCREWS
FOR DRY WALL & ALUMINUM STUDS USE 2" #10 STAINLESS SELF-TAPPING SCREWS
FOR CONCRETE USE 2"x1/4" HILTI KBTZ2 EXPANSION ANCHORS

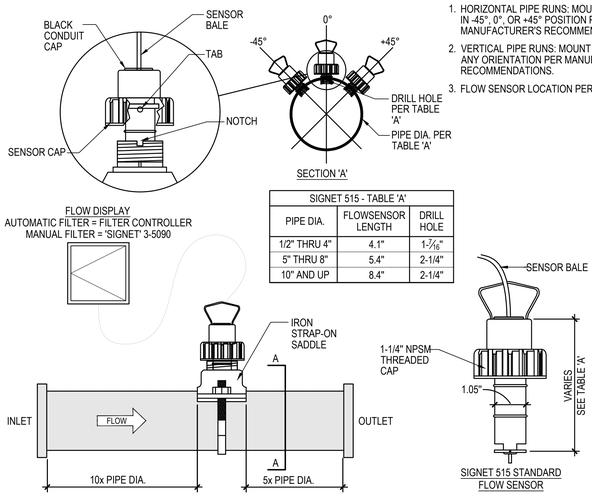
MOUNTING PANELS ARE NOT SUPPLIED WITH PERFORATIONS FOR THE MOUNTING SCREWS.



ALL DIMENSIONS IN INCHES	
	CELL SIZE
	10
A	8
B	13
C	28
	ELECTRICAL BOARD
D	20
E	45
	CELL BOARD
F	8
G	10
	TRANSFORMER SIZE, KVA
KVA	3
VOLT INPUT	220
H	10
I	6
J	17

2 SALT WATER CHLORINE GENERATION SYSTEM (OLD)

NOTES:
1. HORIZONTAL PIPE RUNS: MOUNT SENSOR IN -45°, 0°, OR +45° POSITION PER MANUFACTURER'S RECOMMENDATIONS.
2. VERTICAL PIPE RUNS: MOUNT SENSOR IN ANY ORIENTATION PER MANUFACTURER'S RECOMMENDATIONS.
3. FLOW SENSOR LOCATION PER PLAN



SIGNET 515 - TABLE 'A'		
PIPE DIA.	FLOWSENSOR LENGTH	DRILL HOLE
1/2" THRU 4"	4.1"	1-7/16"
5" THRU 8"	5.4"	2-1/4"
10" AND UP	8.4"	2-1/4"

3 SIGNET FLOWMETER

CHEMICAL CLASSIFICATION TABLE

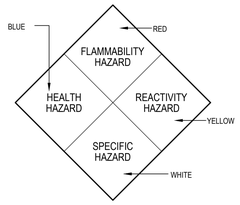
COMMON NAME	CHEMICAL NAME	% COMP.	CAS #	FORM	QUANT. STORED (NOT USED)	QUANT. IN USE (USE-CLOSED)	MAXIMUM ALLOWABLE QUANTITY	LOCATION (STORAGE & USE)	HAZ. CLASSES	JUSTIFICATION
SODIUM BISULFATE	SODIUM BISULFATE	93%	7681-38-1	TABLET	45 lbs.	45 lbs.	NO LIMIT	CHEM. ROOM	IRRITANT	MSDS
CARBON DIOXIDE	CARBON DIOXIDE	100%	124-39-9	LIQUID	0 lbs.	600 lbs.	686 lbs.	CHEM. ROOM	CRYOGENIC	MSDS

QUANTITIES OF CHEMICALS DO NOT EXCEED THE QUANTITIES LISTED IN CBC TABLES 307.1 (1) AND 307.1 (2).
FOR CARBON DIOXIDE GAS SEE TABLE 1.12.8(b) OF THE NFPA. 6,000 FT^3 ALLOWABLE OR 686 lbs. STORAGE PER CONTAINED AREA
PROVIDE HARD WIRED CO_2 DETECTOR 'ANALOX SENSOR TECHNOLOGY' MODEL #AP1 KIT SENSOR AND STROBE UNITS 120V HARD WIRED W/ STROBE LIGHT AND AUDIBLE ALARM. SENSOR MOUNTED 18 INCHES A.F.F. AND ALARM LEVEL BETWEEN 70-76 INCHES AND WITHIN VISIBLE EYESIGHT OF DOOR. TO BE SET TO DETECT CO2 GAS IN LEVELS IN EXCESS OF THE PEL. PROVIDE IN EACH ROOM CONTAINING CO_2.

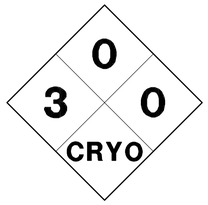
RATING EXPLANATION GUIDE

RATING	HEALTH HAZARD	FLAMMABILITY HAZARD	REACTIVITY HAZARD	SPECIFIC HAZARD	
4	CAN BE LETHAL	EXTREMELY FLAMMABLE. IGNITES AT BELOW 73° F.	MAY EXPLODE AT NORMAL TEMPERATURES AND PRESSURES	OXIDIZER:	OX
				ACID:	ACID
3	CAN CAUSE SERIOUS OR PERMANENT INJURY	IGNITES AT ABOVE 73° F, BELOW 100° F.	MAY EXPLODE AT HIGH TEMPERATURES OR SHOCK	CORROSIVE:	COR
2	CAN CAUSE TEMPORARY INCAPACITATION OR RESIDUAL INJURY	IGNITES AT ABOVE 100° F, BELOW 200° F.	VIOLENT CHEMICAL CHANGE AT HIGH TEMPERATURES OR PRESSURES	ALKALI:	ALK
				USE NO WATER:	-W-
1	CAN CAUSE SIGNIFICANT IRRITATION	IGNITES AT ABOVE 200° F.	NORMALLY STABLE. HIGH TEMPERATURES MAKE UNSTABLE	RADIATION HAZARDS:	☢
				POLYMERIZES:	P
0	NO HAZARD	WILL NOT BURN	STABLE		

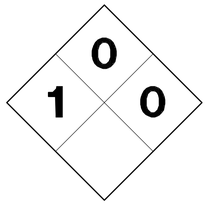
NOTES:
1. CONFIRM SIGNAGE WITH LOCAL FIRE MARSHALL AND/OR BUILDING CODES PRIOR TO INSTALLATION. SIGNS SHALL CONFORM TO NFPA 704.
2. SIGNS SHALL BE SIZES AND COLORS PER CODE MOUNTED AT +60" A.F.F. ON DOORS AT CHEMICAL ROOMS.



LEGEND

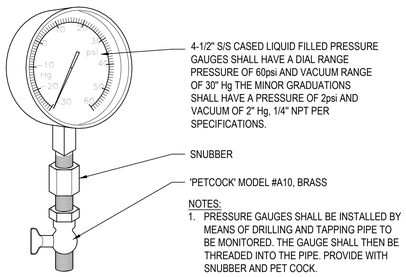


CARBON DIOXIDE



SODIUM BISULFATE

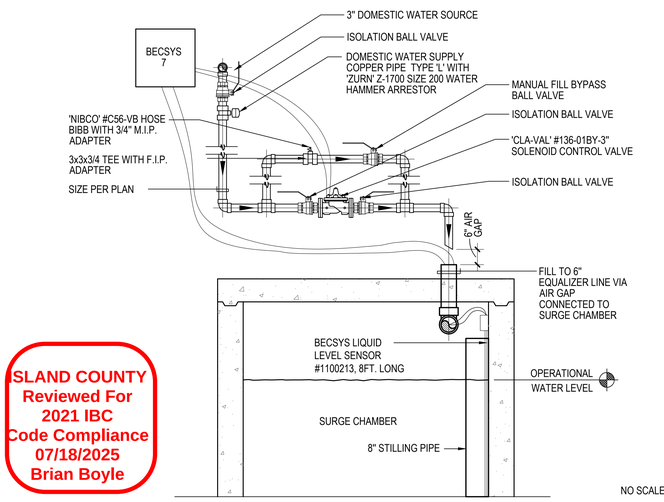
4 HAZARDOUS INFORMATION SIGNAGE NO SCALE



NOTES:
1. PRESSURE GAUGES SHALL BE INSTALLED BY MEANS OF DRILLING AND TAPPING PIPE TO BE MONITORED. THE GAUGE SHALL THEN BE THREADED INTO THE PIPE. PROVIDE WITH SNUBBER AND PET COCK.
2. GAUGE MAY BE USED WHEREVER CRUCIAL VACUUM OR PRESSURE READINGS ARE ESSENTIAL.

5 PRESSURE/VACUUM GAUGE

6 NOT USED



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NO SCALE

7 AUTOMATIC/MANUAL WATER MAKE-UP SCHEMATIC

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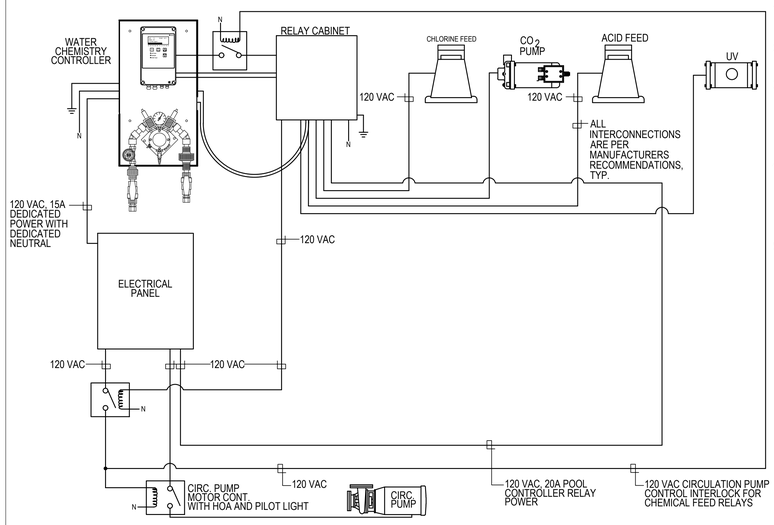
MR.3



NOTES:
1. INSTALL 1 #12 GROUND CONDUCTOR IN ALL CONDUITS
2. ALL CONDUITS SHALL BE RIGID OR INTERMEDIATE GALVANIZED METAL.
3. REFER TO FILTER "OWNER'S MANUAL" FOR INSTALLATION/ OPERATING INSTRUCTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR A FULLY OPERATIONAL SYSTEM.
4. ALL WORK SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.) FURNISH ALL LABOR, MATERIALS AND COORDINATION OF WORK HERE ON SHOWN/IMPLIED.
5. ALL INTERCONNECTIONS, AND CONTROL WIRING PER MANUFACTURERS INSTALLATION INSTRUCTIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR A FULLY OPERATIONAL SYSTEM.

1 POOL MECHANICAL ELECTRICAL INTERCONNECTION DIAGRAM NO SCALE

DESIGNATION: 'SP-1' | VOLTAGE: 120/208V 3PH 4W | 200 AMP ☒ MAIN BREAKER ☐ MAIN LUG | ☐ RECESSED ☒ SURFACE | LOCATION: MECHANICAL EQUIP. RM. | MINIMUM DEVICE A.I.C. RATING ☒ 10,000 ☐ 14,000 | PANELBOARD KEY NOTES ① ○ ○ ○

DESCRIPTION:	C/B	CIR NO.	φ A	φ B	φ C	CIR NO.	C/B	DESCRIPTION:
HS UNDERWATER LIGHT ①	20/1	1	1500			2	20	AP U.V. SYSTEM
AP UNDERWATER LIGHT		3		1500		4	2	
		5			1500	6	20	HS U.V. SYSTEM
		7	1500			8	2	
HS EMERGENCY STOP		9		2500		10	30	SP U.V. SYSTEM
RIVER CONTROLLER		11			2500	12	2	
SCOREBOARD		13	1056			14	20	TP CO2 FEED SYS.
		15		1056		16	2	1 HP
		17			1056	18	20	SPA CO2 FEED SYS.
		19	1056			20	2	1 HP
		21		1056		22	20	HS ACID FEED
		23			1056	24	2	1 HP
		25	1800			26	20	SP CHLORINE GEN.
SP WATER CHEM CONTROL		27		1800		28	2	
AP WATER CHEM CONTROL		29			1800	30	20	
HS WATER CHEM CONTROL		31	1800			32	2	
AP VORTEX EMERGENCY STOP ①		33		1800		34	20	AP CHLORINE GEN. ①
AP RIVER EMERGENCY STOP		35			1800	36	2	
SPACE		37	1800			38	20/1	HS CHLORINE GEN.
		39		—		40		SPARE
		41		720	—	42		SPACE
TOTAL PER PHASE			14,132	14,772	14,401			17,397 ÷ 120V = 145 AMPS
+ 25% L.C.L.			2,255	2,625	2,657			
TOTAL			16,687	17,397	17,058			

① GFI CIRCUIT
SP = SWIMMING POOL
HS = HYDROTHERAPY SPA
AP = ACTIVITY POOL

NOTE:
1. ALL PANELS SHALL BE NEMA 4X, PER SPECIFICATIONS

DESIGNATION: 'SP-2' | VOLTAGE: 120/208V 3PH 4W | 100 AMP ☒ MAIN BREAKER ☐ MAIN LUG | ☐ RECESSED ☒ SURFACE | LOCATION: MECHANICAL EQUIP. RM. | MINIMUM DEVICE A.I.C. RATING ☒ 10,000 ☐ 14,000 | PANELBOARD KEY NOTES ① ○ ○ ○

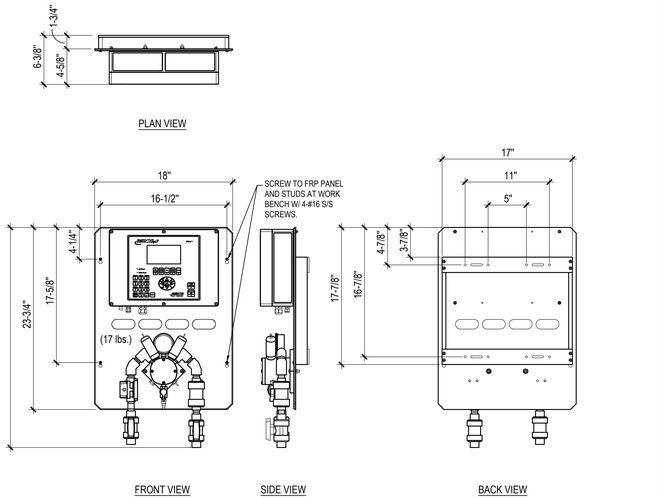
DESCRIPTION:	C/B	CIR NO.	φ A	φ B	φ C	CIR NO.	C/B	DESCRIPTION:
AP AIR COMPRESSOR	30/1	1	2004			2	20/1	SP CHEM RELAY
W/ BUCK BOOSTER		3	720	2004		4		AP CHEM RELAY
SPARE	20/1	5		720	720	6		HS CHEM RELAY
SP HEAT EXCHANGER RELAY		7	720		720	8		SP CIRC PUMP INTERCONN.
AP HEAT EXCHANGER RELAY		9	720	720		10		AP CIRC PUMP INTERCONN.
HS HEAT EXCHANGER RELAY		11		720	720	12		HS CIRC PUMP INTERCONN.
SP UNDERWATER LIGHTS ①		13	330	720		14		SPARES ①
		15	455	720		16		
		17	—		—	18		SPACE
TOTAL PER PHASE			5,274	5,339	2,880			6,323 ÷ 120V = 52 AMPS
+ 25% L.C.L.			958	967	720			
TOTAL			6,232	6,105	3,600			

① GFI CIRCUIT
SP = SWIMMING POOL
HS = HYDROTHERAPY SPA
AP = ACTIVITY POOL

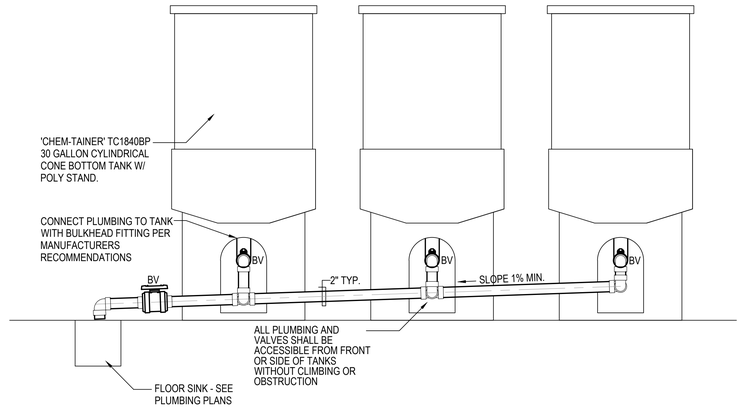
NOTE:
1. ALL PANELS SHALL BE NEMA 4X, PER SPECIFICATIONS

SEE ELECTRICAL PLANS FOR ADDITIONAL PANEL REQUIREMENTS

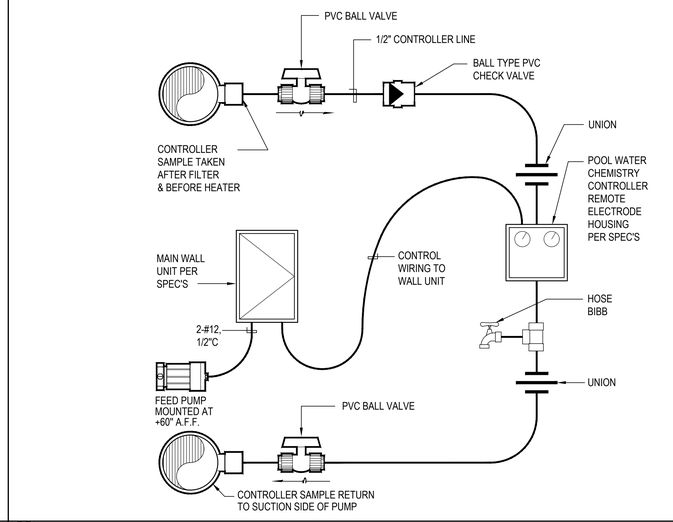
2 ELECTRICAL PANEL SCHEDULES NO SCALE



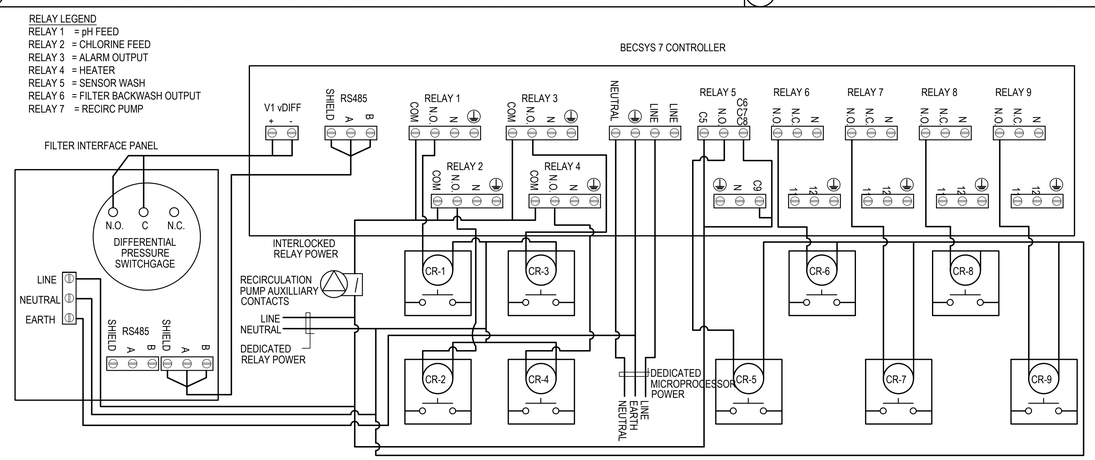
3 BECSYS 7 WATER CHEMISTRY CONTROLLER 1-1/2"=1'-0"



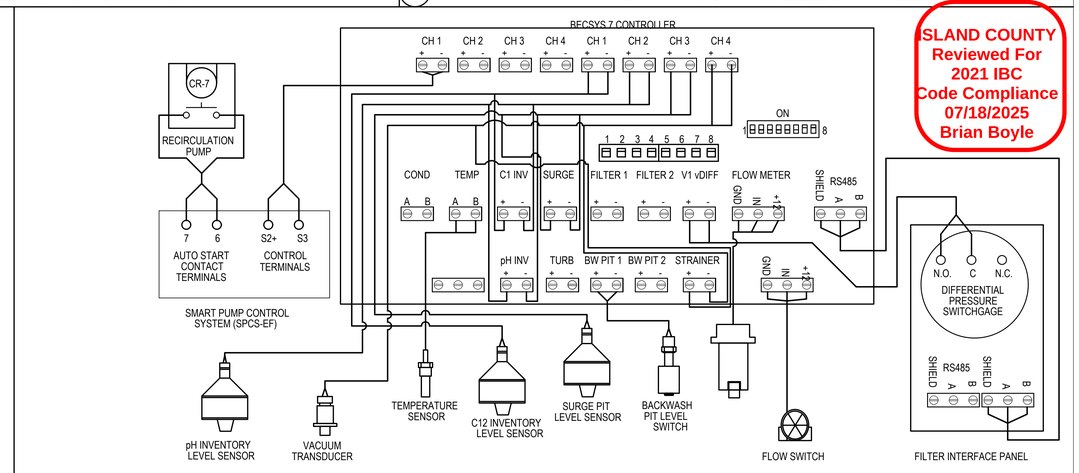
4 CARTRIDGE CLEANING STATION 1"=1'-0"



5 WATER CHEMISTRY CONTROLLER SCHEMATIC NO SCALE



6 BECSYS 7 CONTROLLER NO SCALE



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7 BECSYS 7 CONTROLLER NO SCALE

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South Whidbey PARKS & RECREATION DISTRICT

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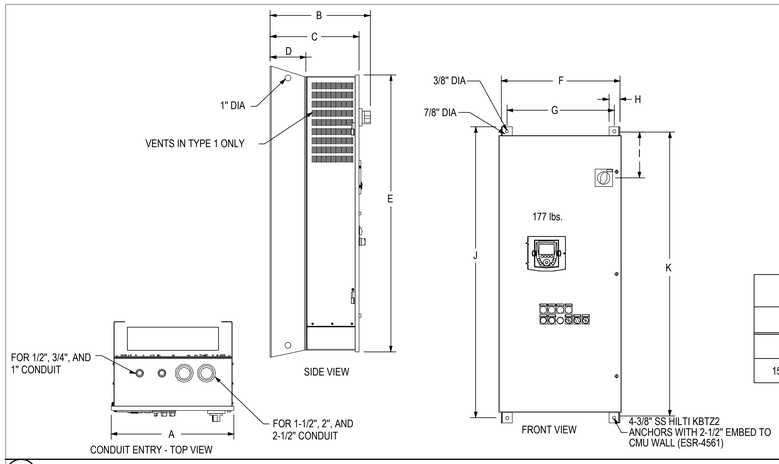
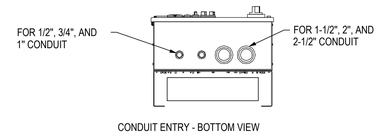


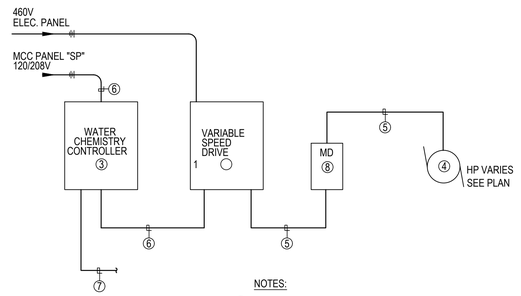


NOTE:
PROVIDE AT LEAST 3" OF MOUNTING CLEARANCE ON EACH SIDE OF THE DRIVE CONTROLLER.
PROVIDE AT LEAST 6" OF MOUNTING CLEARANCE ON EACH TOP AND BOTTOM OF THE DRIVE CONTROLLER

'SPCS' EKO-FLEX SIZING TABLE

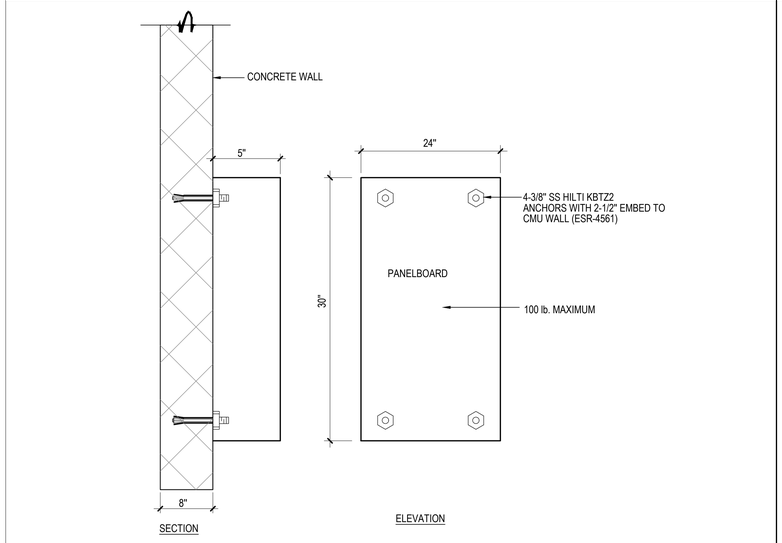
HP	HP	WEIGHT	DIMENSIONS										
460V	208/230V	LBS	A	B	C	D	E	F	G	H	I	J	K
15 TO 25	15 TO 25	177	20.65"	16.83"	14.83"	6.00"	46.64"	20.00"	18.04"	1.86"	7.75"	49.02"	47.83"

1 'SPCS' EKO-FLEX ENCLOSURE DIMENSIONS NO SCALE

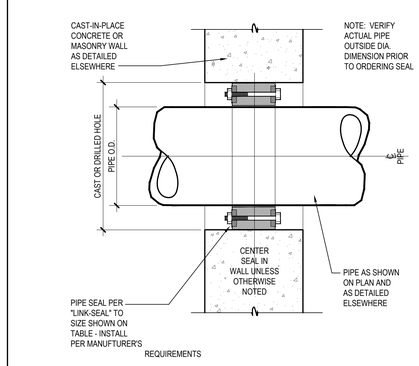


NOTES:
① VARIABLE SPEED DRIVE MOTOR CONTROL CABINET, SEE PLANS AND SPECIFICATIONS.
② ENCLOSED CIRCUIT BREAKER, SEE SINGLE LINE DIAGRAM.
③ WATER CHEMISTRY/FILTER CONTROL UNIT, SEE PLANS.
④ CONNECT TO CIRCULATION PUMP MOTOR, SEE PLANS.
⑤ MOTOR FEEDERS, SEE SINGLE LINE DIAGRAM.
⑥ (4) #12, (1) #12 GND. (120 VOLT CONTROL WIRING)
⑦ 24 VOLT SIGNAL AND SENSOR CABLING, SEE SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR ADDITIONAL REQUIREMENTS.
⑧ MOTOR DISCONNECT, SEE PLANS.

2 TYPICAL WIRING SCHEMATIC AT SPCS UNIT NO SCALE

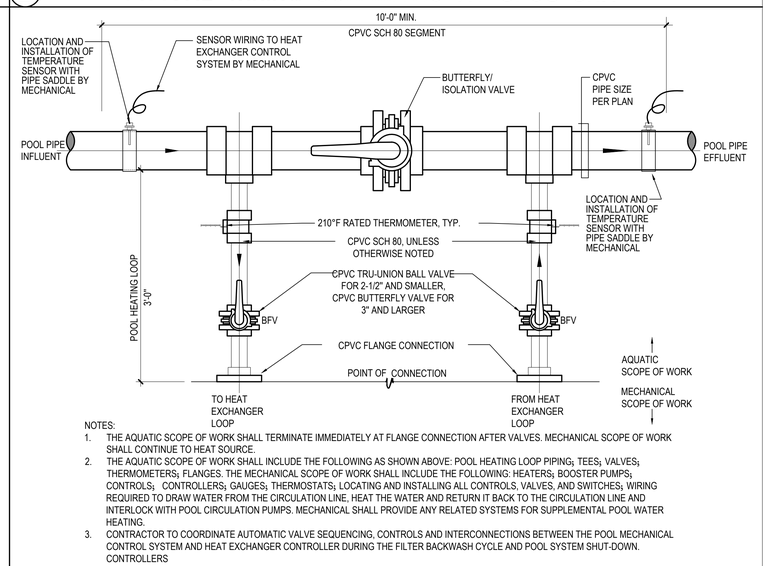


3 PANELBOARD MOUNTING DETAIL NO SCALE



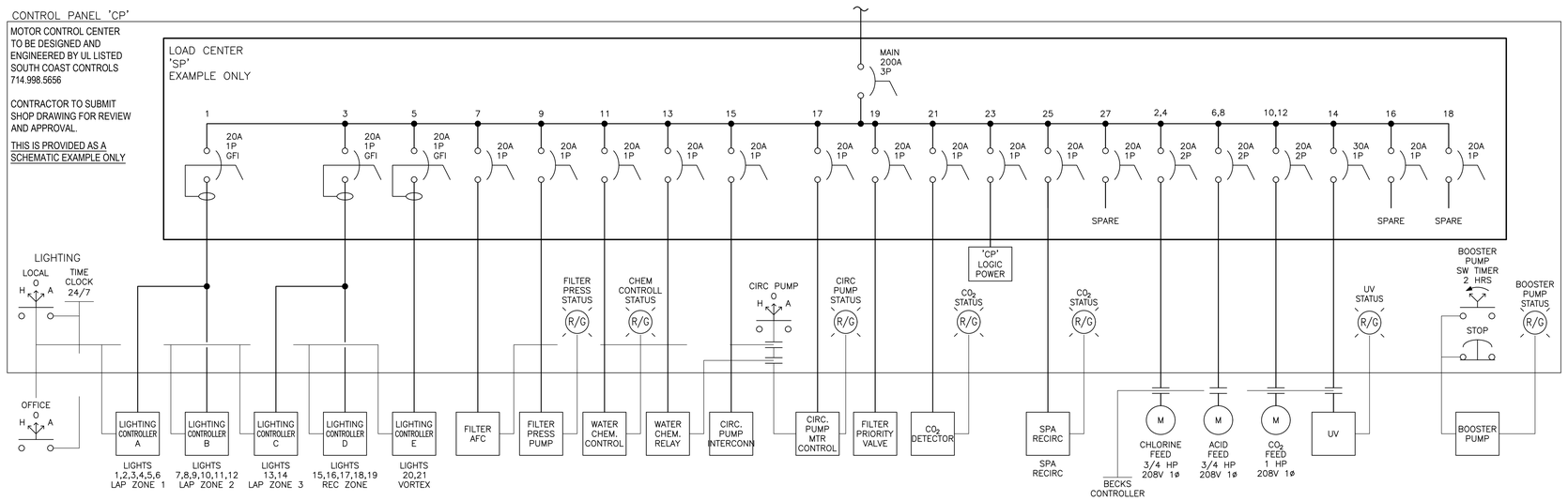
PIPE SIZE (NOMINAL)	OUTSIDE DIAMETER (PIPE O.D.)	CAST OR DRILLED CONCRETE HOLE INSIDE DIA. (ID)	LINK SEAL SIZE NO.	NO. OF LINKS PER SEAL
1/2"	0.840	2.0	LS-200	4
3/4"	1.050	2.5	LS-275	5
1"	1.315	3.0	LS-300	4
1-1/4"	1.660	3.0	LS-275	7
1-1/2"	1.900	3.5	LS-300	5
2"	2.375	4.0	LS-300	6
2-1/2"	2.875	4.0	LS-200	9
3"	3.50	5.0	LS-300	8
3-1/2"	4.00	6.0	LS-325	5
4"	4.50	6.0	LS-300	10
5"	5.563	8.0	LS-425	6
6"	6.625	10.0	LS-475	10
8"	8.625	12.0	LS-475	12
10"	10.75	14.0	LS-400	10
12"	12.75	16.0	LS-400	12
14"	14.00	16.0	LS-325	15
16"	16.00	18.0	LS-325	17
18"	18.00	23.0	LS-500	16
20"	20.00	25.0	LS-500	18
22"	22.00	27.0	LS-500	19
24"	24.00	29.0	LS-500	21
26"	26.00	31.0	LS-500	23
28"	28.00	33.0	LS-500	24
30"	30.00	35.0	LS-500	26
32"	32.00	37.0	LS-500	28
34"	34.00	39.0	LS-500	29
36"	36.00	41.0	LS-500	30

4 PIPE SEAL TO WALL / FLOOR NO SCALE



NOTES:
1. THE AQUATIC SCOPE OF WORK SHALL TERMINATE IMMEDIATELY AT FLANGE CONNECTION AFTER VALVES. MECHANICAL SCOPE OF WORK SHALL CONTINUE TO HEAT SOURCE.
2. THE AQUATIC SCOPE OF WORK SHALL INCLUDE THE FOLLOWING AS SHOWN ABOVE: POOL HEATING LOOP PIPING; TEES; VALVES; THERMOMETERS; FLANGES. THE MECHANICAL SCOPE OF WORK SHALL INCLUDE THE FOLLOWING: HEATERS; BOOSTER PUMPS; CONTROLS; CONTROLLERS; GAUGES; THERMOSTATS; LOCATING AND INSTALLING ALL CONTROLS, VALVES, AND SWITCHES; WIRING REQUIRED TO DRAW WATER FROM THE CIRCULATION LINE, HEAT THE WATER AND RETURN IT BACK TO THE CIRCULATION LINE AND INTERLOCK WITH POOL CIRCULATION PUMPS. MECHANICAL SHALL PROVIDE ANY RELATED SYSTEMS FOR SUPPLEMENTAL POOL WATER HEATING.
3. CONTRACTOR TO COORDINATE AUTOMATIC VALVE SEQUENCING, CONTROLS AND INTERCONNECTIONS BETWEEN THE POOL MECHANICAL CONTROL SYSTEM AND HEAT EXCHANGER CONTROLLER DURING THE FILTER BACKWASH CYCLE AND POOL SYSTEM SHUT-DOWN. CONTROLLERS

5 HEAT EXCHANGER LOOP CONNECTION NO SCALE



NOTES: UNLESS OTHERWISE SPECIFIED.
1. CONTRACTOR SHALL PROVIDE SHOP DRAWING SUBMITTAL FOR REVIEW OF MOTOR CONTROL CENTER CONTAINING ALL ELECTRICAL RELAYS, TIMERS, LIGHTING CONTACTORS, INTERCONNECTIONS, DISCONNECTS AND ALL NECESSARY APPURTENANCES FOR A FULLY FUNCTIONAL ELECTRICAL SYSTEM. DETAIL DIAGRAM IS PROVIDED AS TEMPLATE EXAMPLE ONLY. SHOP DRAWINGS SHALL BE BASED ON PANEL SCHEDULE DESIGNS PROVIDED.
2. CONTROL WIRES TO BE 16 AWG 600 VOLT, -25 °C TO 90 °C RATED STRANDED MTW.
3. POWER AND MOTOR WIRING GAUGES REFER TO NEC OR APPLICABLE CHARTS USING 600 VOLT, -25 °C TO 90 °C RATED STRANDED MTW.
4. FERRULE AND OR PROTECT ALL CONDUCTORS ACCORDINGLY.
5. TAG ALL WIRE ENDS WITH APPROPRIATE IDENTIFICATION AND ORIENT FOR EASE OF CLARITY.

WIRE COLORS: UNLESS OTHERWISE SPECIFIED
1. BLACK (blk) - ALL UNGROUNDED CONTROL CIRCUIT CONDUCTORS OPERATING AT THE SUPPLY VOLTAGE.
2. RED (red) - UNGROUNDED AC CONTROL CIRCUITS OPERATING AT A VOLTAGE LESS THAN THE SUPPLY VOLTAGE.
3. BLUE (blu) - UNGROUNDED DC CONTROL CIRCUITS.
4. YELLOW (yel) OR ORANGE (org) - UNGROUNDED CONTROL CIRCUITS OR OTHER WIRING, SUCH AS FOR CABINET LIGHTING, THAT REMAIN ENERGIZED WHEN THE MAIN DISCONNECT IS IN THE "OFF"
5. WHITE (wht) OR NATURAL GRAY (gry) - GROUNDED AC CURRENT CARRYING CONTROL CIRCUIT CONDUCTOR REGARDLESS OF VOLTAGE.
6. WHITE WITH BLUE STRIPE (wht/blu) - GROUNDED DC CURRENT CARRYING CONTROL CIRCUIT CONDUCTOR.
7. WHITE WITH YELLOW STRIPE (wht/yel)- GROUNDED AC CONTROL CIRCUIT CURRENT CARRYING CONDUCTOR THAT REMAINS ENERGIZED WHEN THE MAIN DISCONNECT SWITCH IS IN THE "OFF" POSITION.
8. GREEN (grn) OR GREEN/YELLOW (grn/yel) - GROUND, PROTECTIVE EARTH.

6 MOTOR AND LIGHTING CONTROL CENTER LINE DIAGRAM NO SCALE

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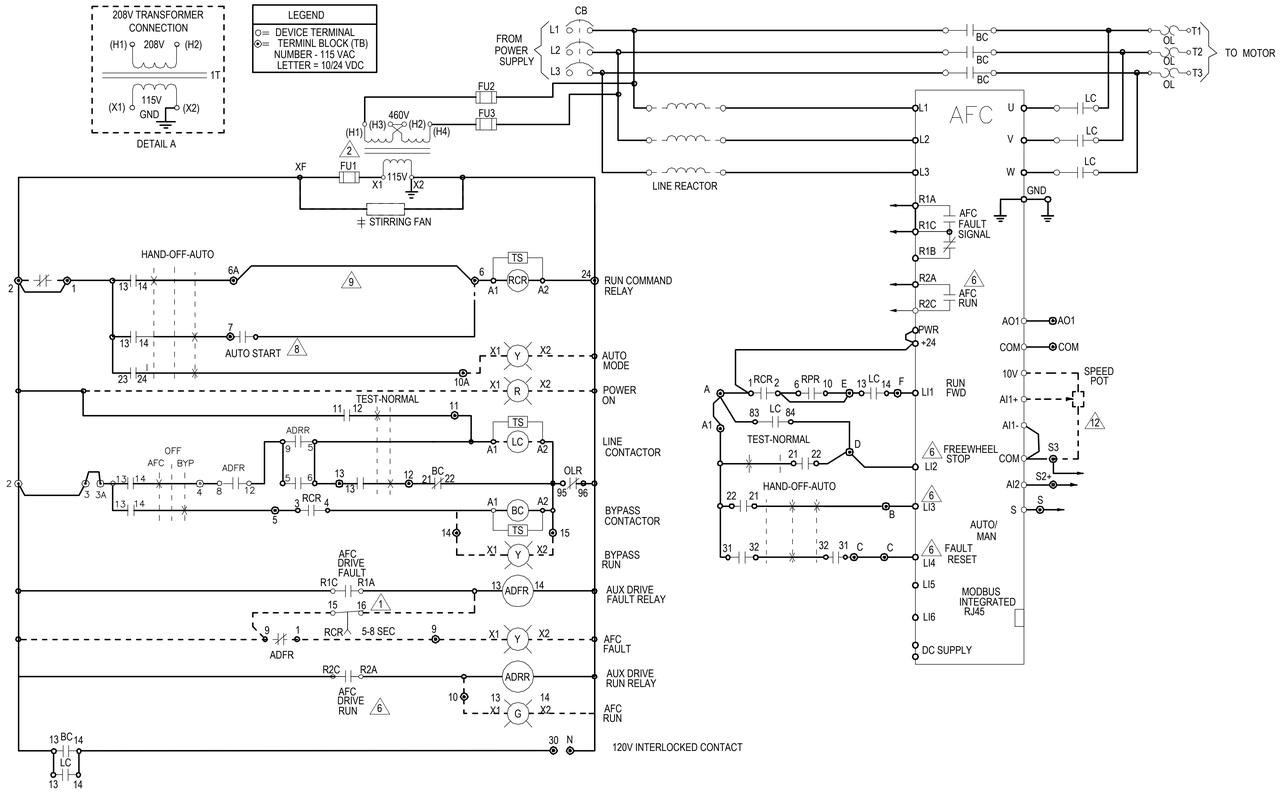
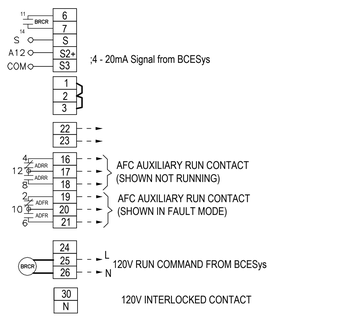


EKO-FLEX ATV61 FACTORY CONFIGURATION					
MENU	No	SUB-MENU	DESCRIPTION	CODE	ADJ.
SIM	1.1	– – – –	2/3 WIRE CONTROL	tCC	2C
SIM	1.1	– – – –	PUMPS FANS	CFG	PnF
SIM	1.1	– – – –	STANDARD MOT. FREQ (HZ)	bFr	60
SIM	1.1	– – – –	ACCELERATION (SEC)	ACC	10
SIM	1.1	– – – –	DECELERATION (SEC)	dEC	10
SIM	1.1	– – – –	LOW SPEED (HZ)	LSP	3
SIM	1.3	– – – –	SWITCHING FREQ. (HZ)	SCr	8
I - O	1.5	– – – –	2 WIRE TYPE	tCt	LEL
I - O	1.5	AI2 CONFIG.	AI2 MIN. VALUE (mA)	CrI2	4
I - O	1.5	R2 CONFIG.	R2 ASSIGN - DRIVE RUNNING	r2C	rUn
CtL	1.6	– – – –	REF. 1 CHAN	FR1	HMI
CtL	1.6	– – – –		FR1	AI1
CtL	1.6	– – – –	PROFILE	CHCF	SEP
FUn	1.7	STOP CONFIG.	FREEWHEEL STOP ASSIGN	nST	LI2
FUn	1.7	REFERENCE SWITCH	REF. 1B SWITCHING	rCb	LI3
FUn	1.7	REFERENCE SWITCH	REF. 1B CHAN	Fr1b	AI2
FLt	1.8	FAULT RESET	FAULT RESET	rSF	LI4
FLt	1.8	CATCH ON THE FLY	CATCH ON THE FLY	FLR	YES
FLt	1.8	OUTPUT PHASE LOSS	OUTPHASE LOSS	PDL	NO
COM	1.9	FORCED LOCAL	FORCED LOCAL ASSIGN.	FLt	LI4

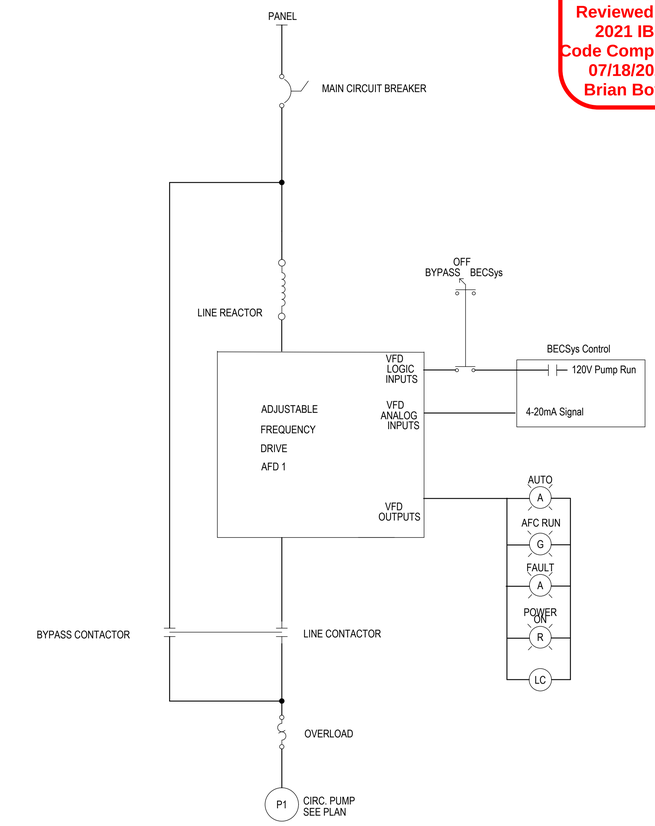
DESCRIPTION	TYPE 1	TYPE 12K	TYPE 3R
⏚ STIRRING FANS	10-100 HP 460V, 7.5-50HP 208/230V	10-100 HP 460V, 7.5-50HP 208/230V	NA
⏚ VENTILIATION FAN	NA	NA	ALL HP
⏚ SPACE HEATER	NA	NA	ALL HP



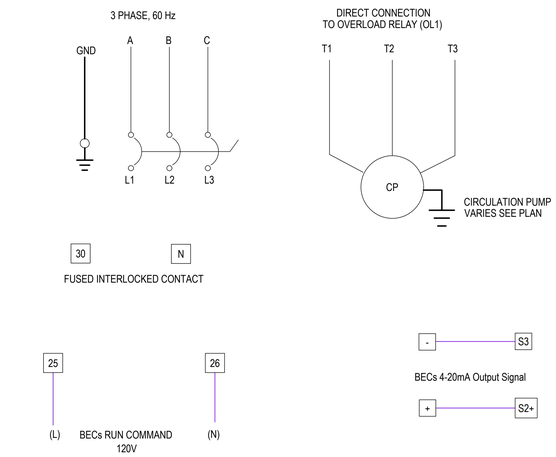
NOTES:

1. RCR TIMED CONTACT USED ONLY IF LINE CONTACTOR IS SUPPLIED
2. CONTROL TRANSFORMER SHOWN FOR 460V PRIMARY. FOR 230V PRIMARY, JUMPER H2-H3 IS
6. PROGRAMMED I/O SEE CONTROLLER FUNCTION CONFIGURATION TABLE.
8. BECs RUN COMMAND RELAY (BRCR)
9. JUMPER USED WHEN START-STOP PUSH BUTTONS NOT USED.

1 'SPCS' EKO-FLEX VARIABLE FREQUENCY DRIVE SYSTEM SCHEMATIC NO SCALE



2 'SPCS' EKO-FLEX SINGLE LINE DIAGRAM NO SCALE



3 'SPCS' EKO-FLEX FIELD CONNECTION DIAGRAM NO SCALE

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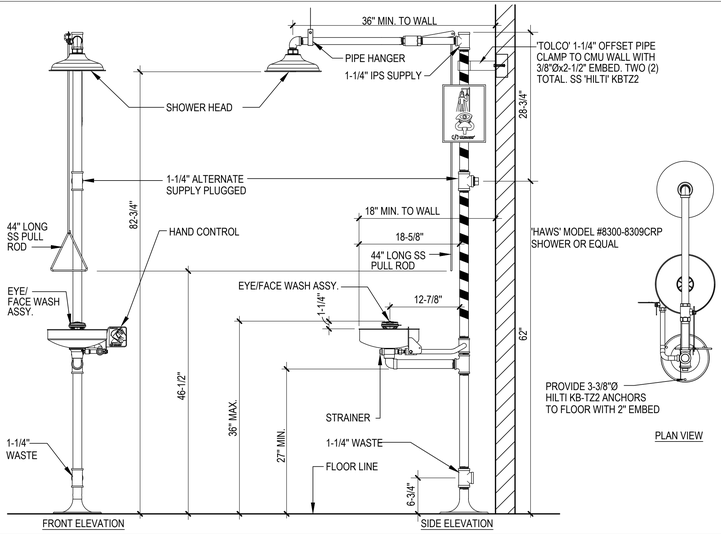
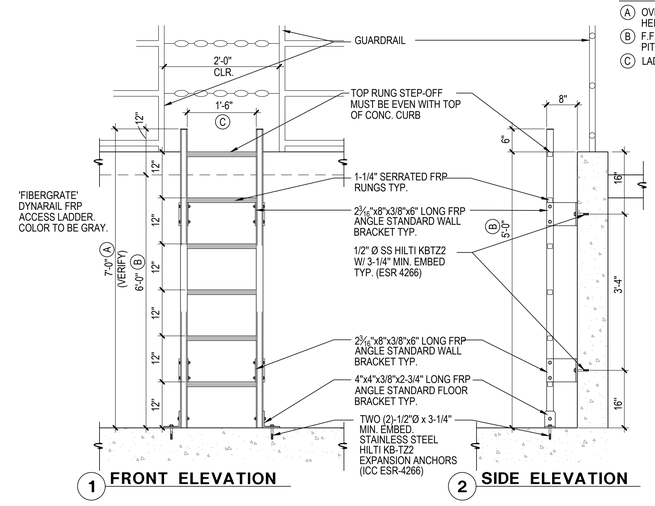


1 TYPICAL EYEWASH/SHOWER DETAIL

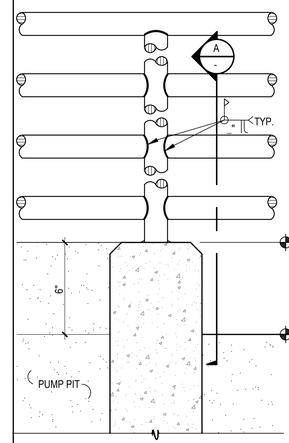
NO SCALE



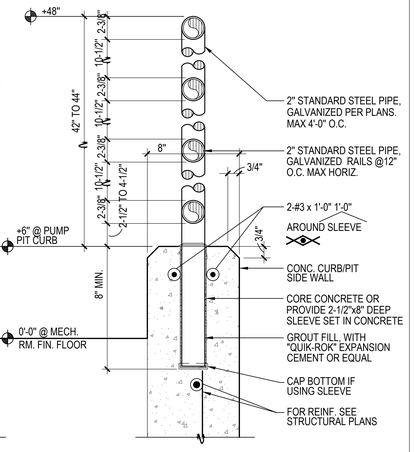
1 FRONT ELEVATION 2 SIDE ELEVATION

2 PUMP PIT ACCESS LADDER

3/4"=1'-0"



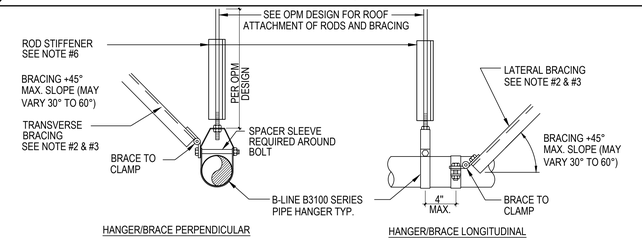
ELEVATION AT PIT WALL



A GUARD RAIL SECTION

3 PIT GUARD RAIL

3"=1'-0"



HANGER ROD SIZES/TABLE

3/8"Ø AT 3" PIPING MAX. ROD LENGTH = 158" MAX PER OPM PG. C1.22
5/8"Ø AT 4" PIPING MAX. ROD LENGTH = 158" MAX PER OPM PG. C1.34
3/4"Ø AT 6" PIPING MAX. ROD LENGTH = 158" MAX PER OPM PG. C1.44
3/4"Ø AT 8" PIPING MAX. ROD LENGTH = 158" MAX PER OPM PG. C1.44
3/4"Ø AT 12" PIPING MAX. ROD LENGTH = 158" MAX PER OPM PG. C1.44

MAX. PIPE HANGER SPACING

4" PIPING OR SMALLER = 6'-0" O.C.
6" PIPING = 6'-0" O.C.
8" PIPING = 6'-0" O.C.
10" PIPING = 6'-0" O.C.

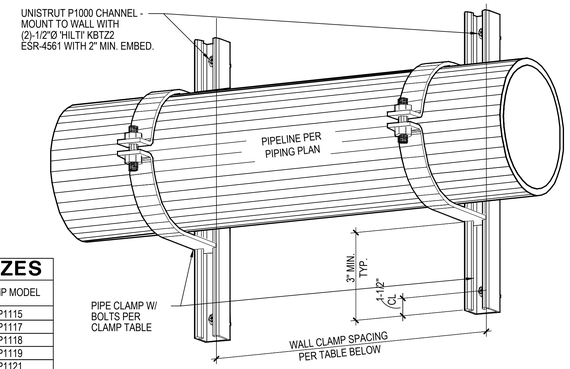
NOTES:

1. REFER TO OSHPD (OPM #0043-13) FOR PIPE HANGER HARDWARE & INSTALLATION. INSTALLATION SHALL SATISFY ANCHORAGE REQUIREMENTS OF ACI 318 CHAPTER 17.
2. PROVIDE BRACING FOR EACH PIPE HANGER IN TWO DIRECTIONS AT THE FOLLOWING CONDITIONS.
   - AT EACH CHANGE IN PIPE RUN DIRECTION
   - MID LENGTH OF PIPE RUN
   - SPACING NOT TO EXCEED 12'-0" O.C.

   1-5/8x1-5/8x12GA SINGLE STRUT (5'-0" LENGTH MAX)
   1-5/8x1-5/8X12GA DOUBLE STRUT (14'-6" LENGTH MAX)
3. REFER TO OPM DESIGN AND DETAILS FOR CONNECTIONS TO ROOF STRUCTURAL SYSTEMS.
4. FOR COPPER TUBING USE COPPER PLATED OR PAINTED B3104CT, FELT LINED B3100F, OR PLASTIC COATED B3100C.
5. REFER TO MR.1 FOR PIPE HANGER LOCATIONS.
6. PROVIDE ROD STIFFENER WHEN TRANSVERSE OR LONGITUDINAL BRACING IS USED AND ROD LENGTHS EXCEEDS 37", SEE OPM DESIGN

4 'UNISTRUT' PIPING HANGER / SUPPORT DETAILS

NO SCALE

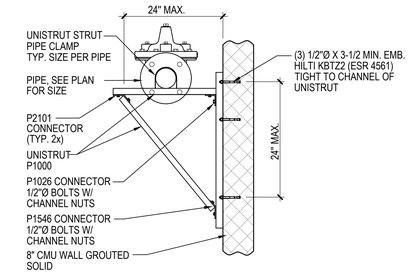


CLAMP SIZES

PIPE SIZE	MAX. SPAC'G	CLAMP MODEL
1-1/2"	4'-0"	P1115
2"	4'-0"	P1117
2-1/2"	4'-0"	P1118
3"	4'-0"	P1119
4"	6'-0"	P1121
6"	8'-0"	P1124
8"	8'-0"	P1126

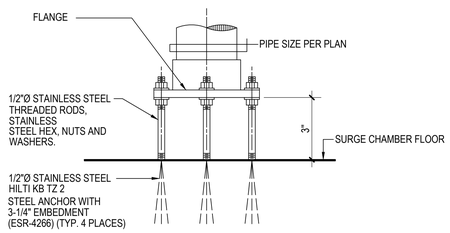
5 PIPE SUPPORT DETAIL

NO SCALE



6 PIPE SUPPORT DETAIL

NO SCALE



7 FLANGE SUCTION DETAIL

NO SCALE

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South Whidbey PARKS & RECREATION DISTRICT

CONTRACT DOCUMENTS

ISSUE DATE: JUNE 2, 2025

REVISION SCHEDULE

Rev #	Date	Description

CONTENTS:

DETAILS

SCALE: As Indicated
DRAWN: KK/AP
CHECKED: SF
PROJECT NO: 2022021.000

SHEET:

MR.7