NOTE: RENDERING FOR REFERENCE ONLY. MAY NOT ACCURATELY REFLECT FINAL DESIGN.

HOWARD M. TERPENNING RECREATION COMPLEX PICKLEBALL FACILITY AND OUTDOOR COURT EXPANSION

15707 SW WALKER ROAD
BEAVERTON, OR 97006

FWD//
FIELDWORK DESIGN & ARCHITECTURE
1752 SE HAWTHORNE BLVD
PORTLAND, OREGON 97214
503.360.1437

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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02.10.2026
DRAWN BY: BTS

BID SET

REVISION:

STAMP

REGISTERED ARCHITECT
CORNELL A. ANDERSON
PORTLAND, OREGON
5029
STATE OF OREGON

COVER SHEET

G0.00

DRAWING INDEX

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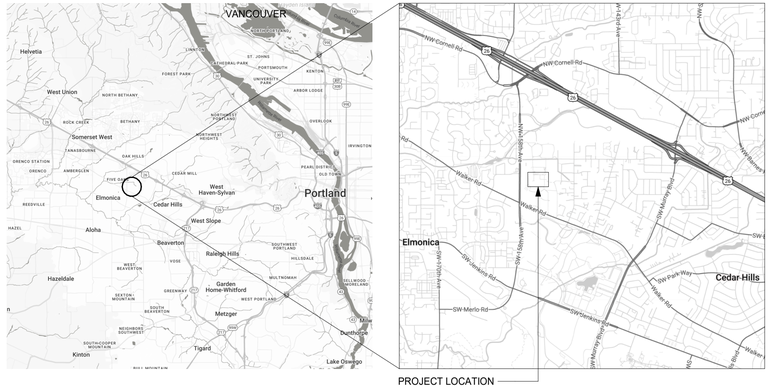
VICINITY MAP



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DEFERRED SUBMITTALS / SEPARATE PERMITS

THE FOLLOWING SYSTEMS ARE DEFERRED SUBMITTALS OR SEPARATE PERMITS AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION:

DELEGATED DESIGN DEFERRED SUBMITTALS:
1. CURTAINWALL/GLAZING/STOREFRONT SYSTEMS
2. MEP EQUIPMENT ANCHORAGE AND BRACING
3. SUSPENDED CEILINGS
4. SHELVING/RACKS
5. FALL PROTECTION ANCHORS
6. RADON MITIGATION SYSTEM

SEPARATE PERMITS:
7. MECHANICAL
8. ELECTRICAL
9. PLUMBING

DELEGATED DESIGN SEPARATE PERMITS:
10. FIRE ALARM SYSTEMS
11. FIRE SPRINKLERS
12. SIGNAGE

<u>DEFERRED SUBMITTAL / SEPARATE PERMIT NOTES:</u>

1. ALL DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE CITY OF BEAVERTON FOR APPROVAL.

2. THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IS TO PROVIDE A STAMP/ NOTATION ON THE DEFERRED SUBMITTAL DOCUMENTS INDICATING THAT THEY HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN CRITERIA OF THE BUILDING.

3. DEFERRED SUBMITTALS MUST MEET ALL RELEVANT DESIGN CRITERIA AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS (E.G., LOADS, FIRE-RESISTANCE, SOUND TRANSMISSION).

4. DURING THE PERMIT APPLICATION OR PLAN REVIEW PROCESS, PROVIDE THE VALUATION (THE COST FOR ALL MATERIALS, EQUIPMENT, LABOR, OVERHEAD, AND PROFIT) FOR EACH LISTED DEFERRED SUBMITTAL ITEM.

5. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

6. COORDINATION W/ OTHER SUB-CONTRACTORS AND DESIGN/BUILD SYSTEMS PERTAINING TO EACH DEFERRED SUBMITTAL IS THE RESPONSIBILITY OF EACH DESIGN/BUILD CONTRACTOR

GENERAL PROJECT NOTES

1. THESE CONSTRUCTION DOCUMENTS SET MINIMUM STANDARDS. THE DRAWINGS SHALL GOVERN OVER GENERAL NOTES TO THE EXTENT SHOWN. DO NOT SCALE THE DRAWINGS. NOTED DIMENSIONS SHALL GOVERN.

2. ALL WORK PERFORMED, INCLUDING MATERIALS FURNISHED, WORKMANSHIP, MEANS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE APPLICABLE AND LATEST REQUIREMENTS OF NATIONAL, STATE, AND LOCAL BUILDING CODES, ALL LOCAL AND STATE HANDICAP ACCESS AND USE REGULATIONS, ANY FIRE DEPARTMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS AND GENERAL CONDITIONS OF APPLICABLE OWNER/CONTRACTOR AGREEMENT.

3. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED CERTIFICATES OF INSURANCE WITH THE OWNER AND THE BUILDING DEPARTMENT, OBTAIN ALL REQUIRED PERMITS, AND PAY ALL FEES REQUIRED BY THE GOVERNING AGENCIES, AND NAME THE OWNER AND FIELDWORK DESIGN AND ARCHITECTURE AND THEIR AGENTS AS ADDITIONAL INSURED.

4. DRAWINGS INDICATE LOCATION, DIMENSIONS, REFERENCE, AND TYPICAL DETAILS FOR CONSTRUCTION. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWINGS. FOR CONDITIONS NOT ILLUSTRATED, NOTIFY ARCHITECT FOR CLARIFICATION AND/OR SIMILAR DETAIL.

5. CONTRACTOR SHALL EMPLOY ADEQUATE NUMBER OF SKILLED WORKERS WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND THE METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK. ALL WORK SHALL BE PERFORMED BY DULY LICENSED TRADESMEN AND AS REQUIRED BY STATE AND LOCAL GOVERNMENTS FOR EACH APPLICABLE TRADE (PLUMBING, ELECTRICAL, ETC.) WHO SHALL ARRANGE FOR AND OBTAIN REQUIRED INSPECTIONS AND SIGN OFFS.

6. THESE DRAWINGS ARE DIVIDED INTO SECTIONS FOR CONVENIENCE ONLY. CONTRACTOR, SUBCONTRACTOR, VENDORS, AND MATERIAL SUPPLIERS SHALL REFER TO ALL RELEVANT SECTIONS IN BIDDING AND PERFORMING THEIR WORK AND SHALL BE RESPONSIBLE FOR ALL ASPECTS OF THEIR WORK REGARDLESS OF WHERE THE INFORMATION OCCURS IN THE DOCUMENTS.

7. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WORK OF ALL TRADES AND SHALL PROVIDE ALL DIMENSIONS PROVIDED FOR THE OTHER TRADES. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATION OF THEIR WORK WITH THE WORK OF OTHERS, AND SHALL VERIFY THAT ANY WORK RELATING TO THEIR WORK WHICH MUST BE PROVIDED BY OTHERS HAS BEEN COMPLETED AND IS ADEQUATE PRIOR TO COMMENCING THEIR WORK.

8. CONTRACTOR SHALL PROVIDE STRUCTURAL BACKING/BLOCKING FOR ALL WALL MOUNTED FIXTURES, FINISHES, AND OTHER EQUIPMENT, AND FOR ALL HANGING FIXTURES, WINDOW BLINDS, ETC.

9. CONTRACTOR SHALL INSTALL ALL MATERIALS AND EQUIPMENT AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS.

10. CONTRACTOR SHALL AT ALL TIMES DURING THE COURSE OF THE CONTRACT KEEP THE ADJOINING PREMISES, INCLUDING STREETS AND OTHER AREAS ASSIGNED TO OR USED BY THE CONTRACTOR FREE FROM ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH CAUSED BY CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS, OR THEIR WORK.

11. CONTRACTOR SHALL ASSIST WITH THE DELIVERY AND STORAGE OF OWNER SUPPLIED ITEMS AND DISPOSE OF ANY RESULTING TRASH.

12. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF TEMPORARY SHORING, BRACING, OR OTHERWISE PROTECTING ANY EXISTING STRUCTURES AND UTILITIES FROM DAMAGE DURING CONSTRUCTION. THE ENGINEER IS SPECIFYING THE FINISHED CONDITION ONLY, WITHOUT ASSUMING KNOWLEDGE OR RESPONSIBILITY OF HOW THE CONTRACTOR WILL ACHIEVE THIS RESULT.

DELEGATED DESIGN COMPONENTS

1. GENERAL:

A. CERTAIN COMPONENTS OF THE WORK UNDER THIS PROJECT ARE DELEGATED DESIGN (ALSO REFERRED TO AS DESIGN-BUILD). IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND ASSUME AND/OR ASSIGN TO SUBCONTRACTORS THE COMPLETE DESIGN, CALCULATIONS, SUBMITTALS, FABRICATION, TRANSPORTATION, AND INSTALLATION OF THE DESIGN BUILD PORTIONS OR COMPONENTS AS REQUIRED IN THIS SECTION. THE APPLICANT IS RESPONSIBLE FOR SUBMITTING TO THE GOVERNING JURISDICTIONS ALL DELEGATED DESIGN DOCUMENTS REQUIRED FOR THE SEPARATE APPROVAL OF EACH DELEGATED DESIGN ITEM. THERE WILL BE NO EXCEPTIONS. DELEGATED DESIGN COMPONENTS OF THIS WORK ARE DEFINED AS COMPLETE, OPERATIONAL SYSTEMS, PROVIDED FOR THEIR INTENDED USE.

B. THE ARCHITECT'S OR ENGINEER OF RECORD'S REVIEW OF DELEGATED DESIGN SUBMITTALS SHALL BE FOR DESIGN INTENT AND SHALL NOT LESSEN OR SHIFT THE RESPONSIBILITY FROM THE APPLICANT OR THE ASSIGNED SUBCONTRACTOR TO THE OWNER NOR THE DESIGN PROFESSIONAL. IT WILL NOT BE THE RESPONSIBILITY OF THE OWNER TO PAY FOR DELAYS, ADDITIONAL HOURS OF WORK OR OVERTIME, RESTOCKING OR REWORK REQUIRED DUE TO FAILURE BY THE APPLICANT OR ASSIGNED SUBCONTRACTOR TO COORDINATE THEIR WORK WITH OTHER TRADES ON THE PROJECT OR TO PROVIDE THE DELEGATED DESIGN PORTION OR COMPONENT IN A TIMELY MANNER TO MEET THE SCHEDULE OF THE PROJECT.

C. SUBMITTALS ARE REQUIRED TO SHOW COMPLETE CRITERIA, DESIGN ASSUMPTIONS, DETAILS, CALCULATIONS, SHOP DRAWINGS, PRODUCT DATA, SAMPLES, INSTRUCTIONS FOR FABRICATION, ASSEMBLY, INSTALLATION AND INTERFACE WITH OTHER TRADES, UNLESS NOTED OTHERWISE.

D. SUBMITTALS WITHOUT REQUIRED CALCULATIONS, WITHOUT THE DELEGATED DESIGN ENGINEER'S SEAL, AND WHICH HAVE NOT BEEN REVIEWED BY THE CONTRACTOR WILL NOT BE REVIEWED BY THE ARCHITECT OR ENGINEER OF RECORD.

E. SUBMITTALS WILL BE REVIEWED AND RETURNED WITHIN 10 DAYS PLUS AN ADDITIONAL 5 DAYS FOR EACH REQUIRED CONSULTANT REVIEW.

2. SPECIFIC REQUIREMENTS

A. SOME DELEGATED DESIGN / DESIGN BUILD COMPONENTS ARE SHOWN ON THE CONTRACT DOCUMENTS FOR DESIGN INTENT. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING, COORDINATING, AND INSTALLING THE DELEGATED DESIGN COMPONENTS.

B. DELEGATED DESIGN COMPONENTS ATTACHED TO THE STRUCTURAL FRAME OR SUPPLEMENTAL TO THE STRUCTURAL FRAME SHALL BE DESIGNED FOR ANTICIPATED LOADS AS OUTLINED IN THE CONTRACT DOCUMENTS.

C. LOAD REACTIONS AT THE INTERFACE BETWEEN THE DELEGATED DESIGN COMPONENTS AND THE STRUCTURAL FRAME SHALL BE CLEARLY DEFINED TO ALLOW FOR A REVIEW BY THE ARCHITECT OR ENGINEER OF RECORD.

3. REQUIRED SUBMITTAL LIST:

A. DELEGATED DESIGN COMPONENTS/DEFERRED SUBMITTALS REQUIRING JURISDICTIONAL REVIEW:
- SEE DEFERRED SUBMITTALS / SEPARATE PERMITS LIST

B. DELEGATED DESIGN COMPONENTS REQUIRING SEPARATE TRADE PERMITS/JURISDICTIONAL REVIEW:
- SEE DEFERRED SUBMITTALS / SEPARATE PERMITS LIST

C. ADDITIONAL SUBMITTALS REQUIRED FOR ARCHITECT'S REVIEW:
- PER DRAWINGS AND SPECIFICATIONS

NOTE: REQUIRED SUBMITTALS FOR ARCHITECT'S REVIEW ARE NOT LIMITED TO THE SUBMITTALS LISTED ABOVE.

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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
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DATE: 02.10.2026
DRAWN BY: BTS

BID SET

REVISION:

STAMP

REGISTERED ARCHITECT
CORNELL A. ANDERSON
PORTLAND, OREGON
5029
STATE OF OREGON

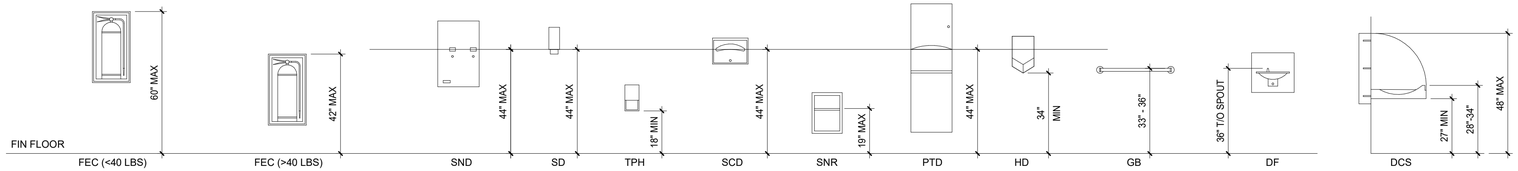
GENERAL INFORMATION

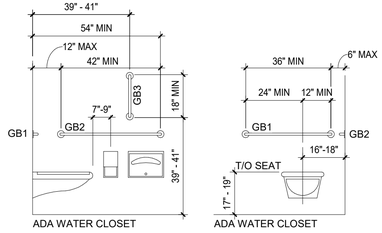
G0.01

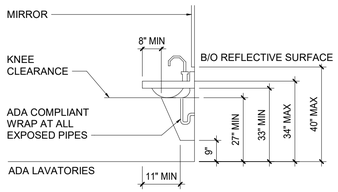
ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
ACOUST	ACOUSTICAL
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJUST / ADJUSTABLE
AL	ALUMINUM
AB	ANCHOR BOLT
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
ASPH	ASPHALT
B	BASE
BM	BEAM
BITUM	BITUMINOUS
BLK	BLOCK
BLKG	BLOCKING
BD	BOARD
BOT	BOTTOM
BTM	BOTTOM
BC	BOTTOM OF CURB
BW	BOTTOM OF WALL
BLDG	BUILDING
CPT	CARPET
CAB	CABINET
CI	CAST IRON
CIP	CAST IN PLACE
CLG	CEILING
CEM	CEMENT
CTR	CENTER
CT	CERAMIC TILE
CLR	CLEAR
CLO	CLOSER
COL	COLUMN
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
COND	CONDITION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CJ	CONTROL JOINT
CORR	CORRIDOR
CNTR	COUNTER
CTSK	COUNTERSINK
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DR	DOOR
DBL	DOUBLE
DN	DOWN
DS	DOWNSPOUT
DWR	DRAWER
DWG	DRAWING
DF	DRINKING FOUNTAIN
EA	EACH
ELEC	ELECTRICAL
EL	ELEVATION
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EXP	EXPANSION
EJ	EXPANSION JOINT
EXPO	EXPOSED
EXT	EXTERIOR
F	FABRIC
FAC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FFIN	FACTORY FINISH
FIN	FINISH
FF	FINISH FLOOR
FFE	FINISH FLOOR ELEVATION
FL	FLOOR
FD	FLOOR DRAIN
FT	FOOT / FEET
FTG	FOOTING
FDN	FOUNDATIONS
FS	FULL SIZE / FULL SCALE
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR
FURR	FURRING
FUT	FUTURE
G	GROUT
GALV	GALVANIZED
GI	GALVANIZED IRON
GA	GAUGE
GLULAM	GLUE LAMINATED
GL	GLASS
GB	GRAB BAR
GR	GRADE
GND	GROUND
GWB	GYPSUM WALL BOARD
GWB/WR	WATER RESISTANT GWB
GYP	GYPSUM
HDW	HARDWARE
HT	HEIGHT
HC	HOLLOW CORE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HB	HOSE BIBB
HR	HOUR
IN	INCH / INCHES
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
IRG	IMPACT RESISTANT GWB
JAN	JANITOR
JT	JOINT
KD	KNOCK DOWN
LAV	LAVATORY
LT	LIGHT
M	MORTAR
MFR	MANUFACTURER
MIN	MINIMUM
MO	MASONRY OPENING
MAX	MAXIMUM
MECH	MECHANICAL
MDO	MEDIUM DENSITY OVERLAY
MEMB	MEMBRANE
MTL	METAL
MISC	MISCELLANEOUS
MTD	MOUNTED
MUL	MULLION
NOM	NOMINAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO	NUMBER
OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
OH	OPPOSITE HAND
OD	OUTSIDE DIAMETER
PNT	PAINT
PTD	PAPER TOWEL DISPENSER
PART BD	PARTICLE BOARD
PAR	PARTITION
PERF	PERFORATED
PLAS	PLASTER
PL	PLASTIC LAMINATE
PLY	PLYWOOD
PLWD	PLYWOOD
PT	POINT
PP	POWER POLE
PRCST	PRECAST
PREFIN	PREFINISHED
PT	PRESSURE TREATED
P/L	PROPERTY LINE
R	RADIUS
RAD	RADIUS
REFR	REFRIGERATOR
REF	REFERENCE
REINF	REINFORCED
REQ	REQUIREMENTS
RES	RESILIENT
R	RISER / RISERS
RD	ROOF DRAIN
RM	ROOM
RO	ROUGH OPENING
SECT	SECTION
SHG	SHEATHING
SHT	SHEET
SH	SHELF
SHWR	SHOWER
SIM	SIMILAR
SOG	SLAB ON GRADE
SC	SOLID CORE
SQ	SQUARE
SF	SQUARE FOOT
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRL	STRUCTURAL
SV	SHEET VINYL
SYM	SYMMETRICAL
SYS	SYSTEM
T	TEMPERED SAFETY GLAZING
THK	THICK
T&G	TONGUE AND GROOVE
T/O	TOP OF
TYP	TYPICAL
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
VAR	VARIES
VG	VERTICAL GRAIN
VCT	VINYL COMPOSITION TILE
VIF	VERIFY IN FIELD
WC	WATER CLOSET
WP	WATERPROOF
WT	WEIGHT
W	WEST
WDW	WINDOW
W/	WITH
W/O	WITHOUT
WD	WOOD
WWF	WOVEN WIRE FABRIC
WR	WATER RESISTANT
WRB	WEATHER RESISTANT BARRIER

ACCESSIBLE MOUNTING HEIGHTS DIAGRAM





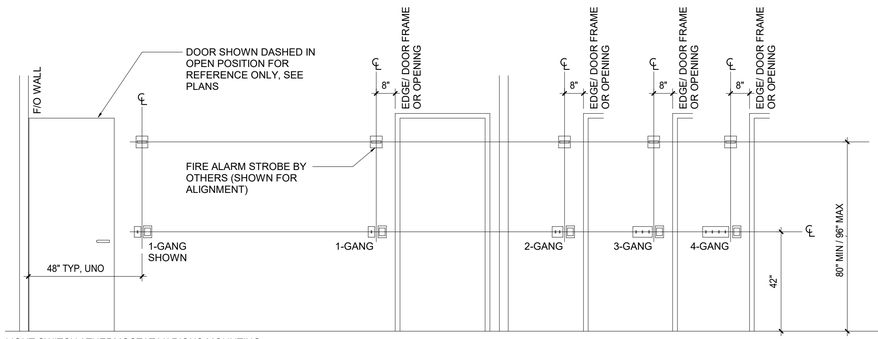


ACCESSORIES ABBREVIATIONS

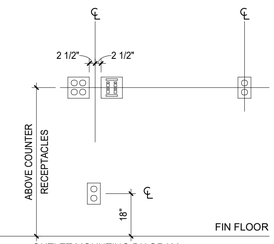
DCS:	DIAPER CHANGING STATION
DF:	DRINKING FOUNTAIN
FEC:	FIRE EXTINGUISHER CABINET
HD:	HAND DRYER
GB:	GRAB BAR
M:	MIRROR
PTD:	PAPER TOWEL DISPENSER
SCD:	SEAT COVER DISPENSER
SNR:	SANITARY NAPKIN RECEPTACLE
TPH:	TOILET PAPER HOLDER
WR:	WASTE RECEPTACLE
HS:	HORN STROBE

NOTE:

PROVIDE SOLID BLOCKING AT ALL LOCATIONS TO RECEIVE WALL MOUNTED ACCESSORIES. 250 LB MIN STRUCTURAL STRENGTH AT GRAB BARS.



LIGHT SWITCH / THERMOSTAT VARIOUS MOUNTING HEIGHTS AND LOCATION TO DOORS

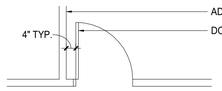


OUTLET MOUNTING DIAGRAM

DIMENSIONS

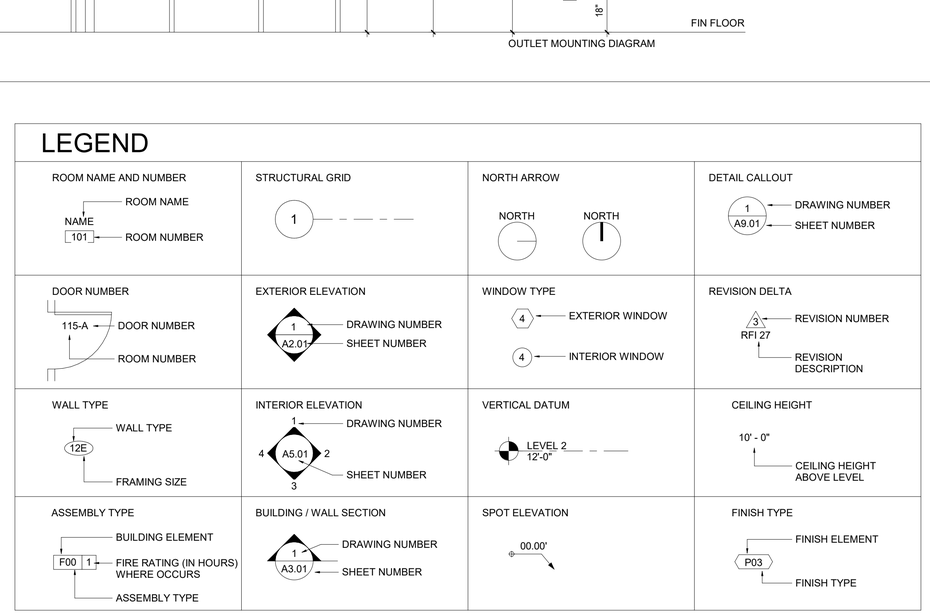
1. DIMENSIONS ARE INDICATED IN THE DOCUMENTS. THE DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
2. IN MANY INSTANCES, THE ACTUAL DIMENSIONS MAY BE LESS IMPORTANT THAN IF ELEMENTS ARE TO BE EQUAL. IN THESE CASES, THE NOTATION "EQ" IS USED IN LIEU OF THE ACTUAL DIMENSION.
3. DETAILS WILL GOVERN ALL DIMENSIONS NOT SHOWN ON PLANS. REFERENCE DETAIL DIMENSION POINTS.
4. EXTERIOR GRID LINES CORRESPOND TO EXTERIOR FACE OF MASONRY VENEER.
5. CONCRETE AND MASONRY WALLS ARE DIMENSIONED TO FACE OF BRICK VENEER OR FACE OF CONCRETE UNLESS NOTED OTHERWISE.
6. INTERIOR WALLS ARE DIMENSIONED TO FACE OF FRAMING UNLESS NOTED OTHERWISE.
7. INTERIOR WALLS WHICH ARE EQUALLY SPACED ARE DIMENSIONED TO CENTERLINE.
8. DOORS ARE LOCATED BY ONE OF THE FOLLOWING:

   A. 4" FROM FACE OF ADJACENT WALL TO DOOR SIDE FACE OF JAMB.



   B. AS DIMENSIONED.

LEGEND



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503.360.1437

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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02.10.2026
DRAWN BY: BTS

BID SET

REVISION:

STAMP

GENERAL INFORMATION

G0.02

PROJECT DESCRIPTION

PUBLIC PICKLEBALL FACILITY WITH 12 DEDICATED OUTDOOR PICKLEBALL COURTS AND PERMANENT ENTRY BUILDING. BUILDING PROVIDES CHECK-IN, LOUNGE, RESTROOM, OFFICE AND STORAGE SPACES. OUTDOOR COURTS TO BE COVERED BY A SEASONAL AIR-INFLATED MEMBRANE STRUCTURE.

SITE AND ZONING INFORMATION

PROJECT ADDRESS	15707 SW WALKER ROAD, BEAVERTON, OREGON 97006
COUNTY	WASHINGTON COUNTY, OREGON
LEGAL DISCRIPTION	NORTH BARBER TRACTS, LOT 1-4 & PT 5.
TAXLOTS	1S105BA00100, 1S105AB01200, 1N132CD00200
SITE AREA	64.41 ACRES
ZONING OF SITE	RMC - RESIDENTIAL MIXED C
VEHICLE PARKING	NO APPLICABLE REQUIREMENT
BICYCLE PARKING	REQUIRED: 2 LONG TERM / 2 SHORT TERM PROVIDED: 2 LONG TERM / 2 SHORT TERM

GOVERNING CODES

BUILDING CODE EDITION	2022 OREGON STRUCTURAL SPECIALTY CODE (OSSC) 2025 OREGON ENERGY EFFICIENCY SPECIALTY CODE (OEESC) 2023 OREGON ELECTRICAL SPECIALTY CODE (OESC) 2022 OREGON MECHANICAL SPECIALTY CODE (OMSC) 2023 OREGON PLUMBING SPECIALTY CODE (OPSC) 2022 OREGON FIRE CODE (OFC) CITY OF BEAVERTON DEVELOPMENT CODE 2010 AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN (ADAS) 2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

BUILDING OCCUPANCY DATA

OCCUPANCY GROUPS	PAVILION: A-3, B, S-2 SEASONAL AIR STRUCTURE: A-4
OCCUPANCY SEPARATION	NON-SEPARATED OCCUPANCIES PER OSSC 508.3

BUILDING CONSTRUCTION AND AREA DATA

CONSTRUCTION TYPE	TYPE II-B, (NON-COMBUSTIBLE) NON-COMBUSTIBLE MEMBANE STRUCTURE CLASSIFIED AS TYPE II-B PER 3102.3
ALLOWABLE HEIGHT & BUILDING AREA (MOST RESTRICTIVE)	GROUP: A-4 BASIC ALLOWABLE AREA (SF): UNLIMITED AREA PER SECTION 507 BELOW BASIC ALLOWABLE HEIGHT (STORIES): 2 BASIC ALLOWABLE HEIGHT (FEET): 55
AREA MODIFICATIONS	NO MODIFICATIONS REQUIRED
UNLIMITED AREA BUILDINGS SECTION 507	507.4 SPRINKLERED, ONE-STORY BUILDINGS: OCCUPANCY GROUP A-4, NOT MORE THAN ONE STORY ABOVE GRADE, ANY CONSTRUCTION TYPE OTHER THAN TYPE V, SURROUNDED BY YARDS > 60 FT 507.4 EXCEPTION 2 SPRINKLERS NOT REQUIRED IN AREAS FOR INDOOR PARTICIPANT SPORTS PROVIDED: - EXIT DOORS DIRECTLY TO OUTSIDE FOR PARTICIPANTS - BUILDING EQUIPPED WITH FIRE ALARM SYSTEM WITH MANUAL FIRE ALARM BOXES INSTALLED PER SECTION 907 - AUTOMATIC SPRINKLER SYSTEM IS PROVIDED IN SPACES ANCILLARY TO THE SPORT ACTIVITY SPACE
PROPOSED HEIGHT & BUILDING AREA	PROPOSED AREA (SF): 3,720 SF PAVILION CONDITIONED AREA 2,957 SF PAVILION COVERED EXTERIOR 36,005 SF SEASONAL AIR STRUCTURE 42,682 SF TOTAL PROPOSED HEIGHT (STORIES): 1 PROPOSED HEIGHT (FEET): 45'-0"
OCCUPANT LOADS	BY ZONE: CONDITIONED INTERIOR: 120 COVERED EXTERIOR: 34 PICKLEBALL COURTS: 60 TOTAL: 214 BY OCCUPANCY GROUP (SEE CODE PLANS) GROUP A-3: 141 GROUP B: 10 GROUP S-2: 3 GROUP A-4: 60 TOTAL: 214

PLUMBING FIXTURE COUNT REQUIREMENTS

PLUMBING FIXTURE REQUIREMENTS: TABLE 2902.1

CLASSIFICATION	OCCUPANT LOAD	WATER CLOSETS		LAVATORIES		DRINKING FOUNTAINS	
		RATIO	REQ'D (M/F)	RATIO	REQ'D (M/F)	RATIO	REQ'D
OFFICE	10 OCC (5 M / 5 F)	1 PER 25 FOR FIRST 50 OCC. 1 PER 50 FOR REMAINDER EXCEEDING 50	0.20 M / 0.20 W	1 PER 40 FOR FIRST 80 OCC. 1 PER 80 FOR REMAINDER EXCEEDING 80	0.13 M / 0.13 W	NONE REQUIRED	
ASSEMBLY - LOUNGE, SEATING & STAFF SPACES	141 OCC (72 M / 72 F)	M: 1 PER 125 F: 1 PER 65	0.58 M / 1.11 W	1 PER 200	0.36 M / 0.36 W	1 PER FLOOR	
ASSEMBLY - PICKLEBALL COURTS	60 OCC (30 M / 30 F)	M: 1 PER 75 F: 1 PER 40	0.40 M / 0.75 W	M: 1 PER 200 F: 1 PER 150	0.15 M / 0.20 W	1 PER FLOOR	
STORAGE	3 OCC (2 M / 2 F)	1 PER 100	0.02 M / 0.02 W	1 PER 100	0.02 M / 0.02 W	NONE REQUIRED	
TOTAL REQUIRED:			1.20 M / 2.08 W 3.28 TOTAL		0.66 M / 0.66W 1.32 TOTAL	1 PER FLOOR	
TOTAL PROVIDED:			4.0 **		4.0 **	1 PROVIDED	

** ALL WATER CLOSETS AND LAVATORIES PROVIDED IN SINGLE-USER TOILET ROOMS FOR USE BY ALL PERSONS REGARDLESS OF THEIR SEX

FIRE RESISTIVE BUILDING ELEMENTS

PAVILION CONSTRUCTION TYPE: II-B

FIRE-RESISTANCE RATING REQUIERMENTS: TABLE 601	BUILDING ELEMENT	REQUIRED RATING
	PRIMARY STRUCTURAL FRAME	0 HR
	BEARING WALLS - EXTERIOR	0 HR
	BEARING WALLS - INTERIOR	0 HR
	NONBEARING WALLS - EXTERIOR	0 HR (TABLE 705.5, FSD ≥ 10 FT)
	NONBEARING WALLS - INTERIOR	0 HR
	FLOOR CONSTRUCTION	0 HR
	ROOF CONSTRUCTION	0 HR
FIRE SEPARATION DISTANCES: SECTION 202 / TABLE 705.5	FIRE SEPARATION DISTANCES GREATER THAN 30 FT ON ALL SIDES	
EXTERIOR WALL OPENINGS: TABLE 705.8	NOTE: ALL OPENINGS TO BE UNPROTECTED / SPRINKLERED SPRINKLER SYSTEM TO COMPLY WITH **NFPA13** REQUIREMENTS AND OSSC 903.3.1.1 (VIA DESIGN BUILD UNDER SEPARATE PERMIT) FIRE SEPARATION DIST / ALLOWABLE OPENING AREA 0-3 FEET: NOT PERMITTED 3-5 FEET: 15 % OF WALL AREA 5-10 FEET: 25 % OF WALL AREA 10-15 FEET: 45 % OF WALL AREA 15-20 FEET: 75 % OF WALL AREA >20: UNLIMITED FIRE SEPARATION DISTANCES GREATER THAN 30 FT ON ALL SIDES	
VERTICAL SEPARATION OF OPENINGS: SECTION 705.8.5	VERTICAL SEPARATION OF OPENINGS NOT REQUIRED BY USE OF EXCEPTION 2: (FULLY FIRE-SPRINKLERED)	
VERTICAL EXPOSURE OF OPENINGS: SECTION 705.8.6.2	OPENING PROTECTIONS NOT REQUIRED : GREATER THAN 15 FT DISTANCE BETWEEN NEW AND EXISTING STRUCTURES ROOF PROTECTIONS NOT REQUIRED : GREATER THAN 15 FT DISTANCE BETWEEN NEW AND EXISTING STRUCTURES	
FIRE PARTITIONS: SECTION 708	N/A - NONE REQUIRED	
HORIZONTAL ASSEMBLIES: SECTION 711	N/A - NONE REQUIRED	
PENETRATIONS: SECTION 714	N/A - NONE REQUIRED	
OPENING PROTECTIVES: SECTION 716	N/A - NONE REQUIRED	
FIRE PROTECTION FOR EXTERIOR STRUCTURAL MEMBERS: SECTION 704.10	N/A - LOAD-BEARING STRUCTURAL MEMBERS LOCATED WITHIN EXTERIOR WALLS NOT REQUIRED TO BE RATED PER TABLES 601 AND 705.5.	

BUILDING FIRE PROTECTION AND SUPPRESSION

AUTOMATIC FIRE SPRINKLERS: SECTION 903	AUTOMATIC SPRINKLER SYSTEM REQUIRED AND SHALL COMPLY WITH NFPA13 REQUIREMENTS AND OSSC 903.3.1.1 DESIGN BUILD VIA SEPARATE PERMIT THROUGH FIRE MARSHALS OFFICE SPRINKLERS NOT REQUIRED AT PICKLEBALL COURTS / SEASONAL COVER PER 507.4 EXCEPTION 2
STANDPIPE SYSTEMS: SECTION 905	N/A - STANDPIPE SYSTEM NOT REQUIRED
PORTABLE FIRE EXTINGUISHERS: SECTION 906	PORTABLE FIRE EXTINGUISHERS TO BE PROVIDED AS REQUIRED BY FIRE CODE
FIRE ALARM AND DETECTION: SECTION 907	FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA72 TO BE INSTALLED VIA SEPARATE PERMIT SUBMITTAL. MANUAL FIRE ALARM BOXES REQUIRED PER 507.4, EXCEPTION 2.2 OCCUPANT NOTIFICATION DEVICES REQUIRED PER 907.5

BUILDING EXITING

OCCUPANT LOAD: TABLE 1004.1.1	USE	S.F. PER OCCUPANT
	BUSINESS AREAS	150 GROSS
	STORAGE	300 GROSS
	ASSEMBLY (UNCONCENTRATED)	15 NET
	PICKLEBALL COURTS	60 TOTAL OCCUPANTS PER CORRESPONDENCE WITH CITY OF BEAVERTON
MEANS OF EGRESS WIDTH: SECTION 1005	EXIT COMPONENTS: DOORS: 0.20 INCHES PER OCCUPANT STAIRS: 0.30 INCHES PER OCCUPANT OTHER: 0.20 INCHES PER OCCUPANT	
AREA OF REFUGE SECTION 1009	N/A - NOT APPLICABLE	
EXIT SIGNS:	REQUIRED, EXCEPT FOR ROOMS OR AREAS THAT REQUIRE ONLY ONE EXIT OR ACCESS. SEE CODE PLANS AND REFLECTED CEILING PLANS	
COMMON PATH OF TRAVEL: TABLE 1006.2.1	BUSINESS AREAS (GROUP B): 100'-0" ASSEMBLY AREAS (GROUP A-3/A-4): 75'-0" STORAGE AREAS (GROUP S): 100'-0"	
EXIT ACCESS TRAVEL DISTANCE: TABLE 1017.2	BUSINESS AREAS (GROUP B): 200'-0" ASSEMBLY AREAS (GROUP A-3/A-4): 200'-0" STORAGE AREAS (GROUP S): 300'-0"	
CORRIDORS TABLE 1020.1	NON-RATED	
DEAD ENDS 1020.5	BUSINESS AREAS (GROUP B): 20'-0" MAX ASSEMBLY AREAS (GROUP A-2/A-3): 20'-0" MAX	

ACCESSIBILITY

ACCESSIBLE DESIGN AND CONSTRUCTION STANDARDS	THE HIGHEST OPERABLE PART OF ENVIRONMENTAL AND OTHER CONTROLS, DISPENSERS, ELECTRICAL AND COMMUNICATION SYSTEM RECEPTACLES ON WALLS AND OTHER OPERABLE EQUIPMENT SHALL BE WITHIN AT LEAST ONE OF THE REACH RANGES SPECIFIED IN 2009 ICC A117.1 SECTION 308, AND NOT LESS THAN 36 INCHES ABOVE THE FLOOR. HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS, CABINETS, PLUMBING FIXTURES AND STORAGE FACILITIES SHALL HAVE LEVER OR OTHER SHAPE PERMITTING OPERATION BY WRIST OR ARM PRESSURE AND NOT REQUIRING TIGHT GRASPING, PINCHING OR TWISTING TO OPERATE. THE OPENING FORCE OF DOORS ALONG AN ACCESSIBLE ROUTE SHALL NOT EXCEED 5 POUNDS-FORCE. FLOOR DRAINS MAY BE LOCATED WITHIN A CLEAR FLOOR SPACE AT A FIXTURE PROVIDED THE OPENINGS IN THE DRAIN COVER SHALL NOT EXCEED 1/2 INCH IN ANY DIRECTION AND THE DRAIN COVER SHALL BE NO MORE THAN 1/8 INCH BELOW THE LEVEL OF THE SURROUNDING FLOOR SURFACE. GRAB BARS SHALL HAVE AN OUTSIDE DIAMETER OF NOT LESS THAN 1 1/4 INCHES OR MORE THAN 1 1/2 INCHES.
BUILDING INTERIOR ACCESSIBLE ROUTE:	ENTIRE PROPOSED PROJECT IS ACCESSIBLE. REFERENCE PLANS

RADON MITIGATION

RADON CONTROL MEASURES: SECTION 1811	PUBLIC BUILDINGS ARE REQUIRED TO BE PROVIDED WITH A PASSIVE SOIL DEPRESSURIZATION (PSD) RADON GAS MITIAGATION SYSTEM.
SLAB-ON-GRADE REQUIREMENTS: SECTION 1811.2	SUBFLOOR PREPARATION: PLACE A LAYER OF GAS-PERMEABLE MATERIAL UNDER ALL CONCRETE SLABS, PER OSSC 1811.2.1 SOIL-GAS-RETARDER MEMBRANE: THE MEMBRANE SHALL BE PLACED TO MINIMIZE SEAMS AND TO COVER ALL OF THE SOIL BELOW THE BUILDING FLOOR. SEAL MAJOR RADON ENTRY ROUTES, INCLUDING SLAB AND FOUNDATION JOINTS/CRACKS, AS WELL AS UTILITY AND PIPE PENETRATIONS, PER OSSC 1811.2.2 CONCRETE PLACEMENT: FOLLOW SPECIFICATIONS TO LIMIT THE UNCONTROLLED CRACKING OF FLOOR SLABS, INCLUDING MIX DESIGN, PLACING PRACTICES AND CURING PRACTICES, PER OSSC 1811.2.3 SUBSLAB BARRIERS: ELIMINATE BARRIERS TO SUBSLAB AIRFLOW SUCH AS SUBSLAB WALLS OR PROVIDE SUBSLAB SOIL EXHAUST SYSTEMS FOR EACH AREA, PER OSSC 1811.2.4 SUBSLAB SOIL EXHAUST SYSTEM DUCTS (VENT PIPES): INSTALL A 6-INCH (152 MM) DIAMETER OR EQUIVALENT SUBSLAB SOIL EXHAUST SYSTEM DUCT FROM THE RADON SUCTION PIT TO THE OUTDOORS, PER OSSC 1811.2.4

HAZARDOUS MATERIALS

NO HAZARDOUS MATERIALS TO BE PRESENT DURING CONSTRUCTION.

DEFERRED SUBMITTALS

SEE LIST PROVIDED ON G0.01

ROOM SPECIFIC REQUIREMENTS

N/A

ENERGY CODE

ASHRAE CLIMATE ZONE: 4C	
BUILDING CLASSIFICATION: COMMERCIAL	
BUILDING ENVELOPE: OPAQUE ELEMENTS (TABLE 5.5-4)	
MINIMUM REQUIREMENTS BY ELEMENT:	
ROOF:	R-30ci
WALLS:	STEEL FRAMED: R-13 + R-7.5ci MASS WALLS: R-9.5ci
FLOORS:	SLAB-ON-GRADE UNHEATED: R-15 (MIN) for 24 in. F-0.520 (MAX)
OPAQUE DOORS:	SWINGING: U-0.370 (MAX) OTHERS: U-0.310 (MAX)
BUILDING ENVELOPE - FENESTRATION (TABLE 5.5-4)	
VERTICAL FENESTRATION	0% - 40% OF WALL AREA
FIXED	0.36 U-FACTOR (MAX) 0.36 SHGC (MAX) 1.10 VT / SHGC (MAX)
OPERABLE	0.45 U-FACTOR (MAX) 0.33 SHGC (MAX) 1.10 VT / SHGC (MIN)
ENTRANCE DOOR	0.63 U-FACTOR (MAX) 0.33 SHGC (MAX) 1.10 VT / SHGC (MAX)
SKYLIGHTS	0.50 U-FACTOR (MAX) 0.40 SHGC (MAX)
BUILDING AIR LEAKAGE TO BE LESS THAN 0.30 CFM PER SF PER 2025 OEESC 5.4.3.4, EXCEPTION 11.	
ADDITIONAL EFFICIENCY MEASURES	
BUILDING USE TYPE (11.5.1-1)	OFFICE: 550 SF (15%) OTHER: 3170 SF (85%)
ADDITIONAL ENERGY CREDITS REQUIRED (11.5.1-1 OREGON ADJUSTED)	OFFICE: 43 CREDITS x 15% = 6.45 OTHER: 23 CREDITS x 85% = 19.55 TOTAL CREDITS REQUIRED = 27.00 (60% MAX CREDITS FOR RENEWABLE AND LOAD MANAGEMENT = 16 CREDITS MAX)
ADDITIONAL ENERGY CREDITS PROPOSED (11.5.2) REFERENCE COMCHECK REPORT	

E01: IMPROVED ENVELOPE PERORMANCE 8.4
L03: OCCUPANCY SENSOR CONTROL AREAS 7.0
L06: REDUCED INTERIOR POWER 7.8
H02: 5% HEATING EFFICIENCY IMPROVEMENT 8.0
H03: 5% COOLING EFFICIENCY IMPROVEMENT 12.0
W03: EFFICIENT FOSSIL FUEL WATER HEATER 3.0

TOTAL ADDITIONAL ENERGY CREDITS PROPOSED: 46.2

MEMBRANE STRUCTURES

MEMBRANE STRUCTURE TO HAVE A PERMANENTLY AFFIXED LABEL BEARING THE FOLLOWING INFORMATION:

1) THE IDENTIFICATION OF SIZE AND FABRIC OR MATERIAL.

2) THE NAMES AND ADDRESSES OF THE MANUFACTURERS OF THE MEMBRANE STRUCTURE.

3) A STATEMENT THAT THE FABRIC OR MATERIAL MEETS THE REQUIREMENTS OF OSSC/IBC SECTION 3102.3.2

4) IF TREATED, THE DATE THE FABRIC OR MATERIAL WAS LAST TREATED WITH FLAME-RETARDANT TREATED SOLUTION, THE TRADE NAME OF THE CHEMICAL USED, NAME OF THE FIRM USED IN TREATING THE FABRIC, AND NAME OF TESTING AGENCY AND TEST STANDARD BY WHICH THE FABRIC WAS TESTED.

5) IF UNTREATED, A STATEMENT THAT NO TREATMENT WAS APPLIED WHEN THE FABRIC OR MATERIAL MET THE REQUIREMENTS OF OSSC/IBC SECTION 3102.3.2.

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503.360.1437

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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02.10.2026
DRAWN BY: BTS

BID SET

REVISION:

STAMP

REGISTERED ARCHITECT
CORNELL A. ANDERSON
PORTLAND, OREGON
5029
STATE OF OREGON

CODE SUMMARY

G1.00

CODE PLAN LEGEND

Room name
100 | A
1500 | 10

- OCCUPANT LOAD FACTOR PER 1004.5 (SF/OCC)
- OCCUPANCY GROUP PER CHAPTER 3
- CALCULATED OCCUPANT LOAD
- AREA (SQ FT)

Room name
A | 10

- CALCULATED OCCUPANT LOAD
- OCCUPANCY GROUP PER CHAPTER 3

COMPONENT
OCC: 300
W: 0.00"
CAP: 0

- EGRESS COMPONENT
- OCCUPANT LOAD AT EGRESS COMPONENT
- EXIT WIDTH PROVIDED
- EGRESS COMPONENT CAPACITY

- BUSINESS FUNCTION (B) 150 SF GROSS PER OCC
- ASSEMBLY FUNCTION (A) 15 SF NET PER OCC *** SEE NOTE FOR PICKLEBALL COURTS
- STORAGE FUNCTION (S) 300 SF GROSS PER OCC

- FEC — FIRE EXTINGUISHER CABINET
- FE — FIRE EXTINGUISHER
- EXIT LIGHT

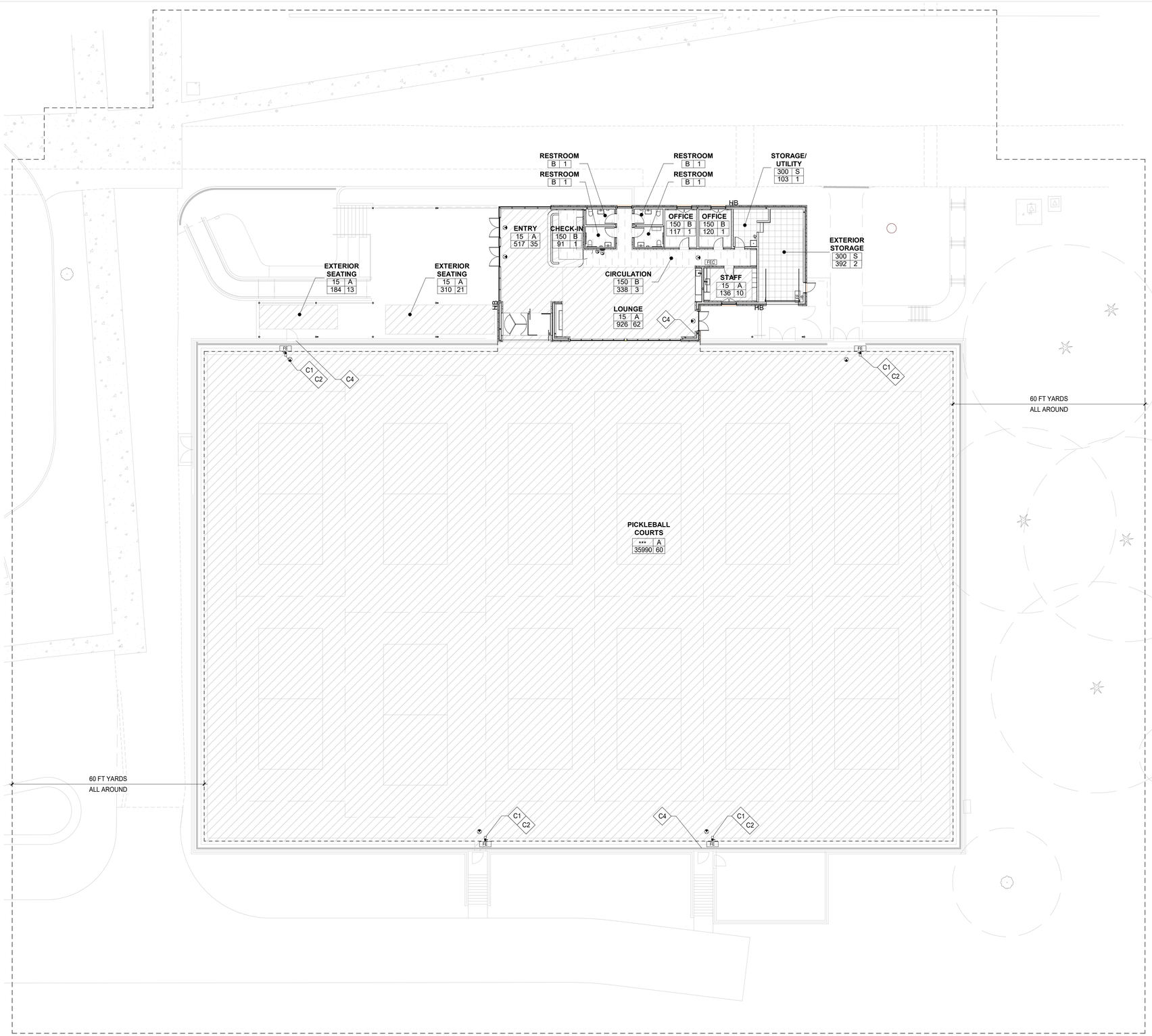
CODE PLAN KEYNOTES

KEYNOTE	TEXT
C1	FIRE ALARM MANUAL PULL STATION AND HORN AND STROBE MOUNTED TO METAL AIR STRUCTURE EXIT DOOR ASSEMBLY. FIRE ALARM SYSTEM PER DEFERRED SUBMITTAL PER OSSC SECTION 907 AND NFPA 72
C2	HORN AND STROBE MOUNTED TO METAL AIR STRUCTURE EXIT DOOR ASSEMBLY OR SUSPENDED FROM AIR STRUCTURE CURTAIN. FIRE ALARM SYSTEM PER DEFERRED SUBMITTAL PER OSSC SECTION 907 AND NFPA 72
C4	PERMANENT OCCUPANT LOAD SIGNAGE TO BE POSTED ADJACENT TO EXIT DOOR

OCCUPANT LOAD SCHEDULE

LEVEL/ZONE	NAME	AREA (SF)	FUNCTION	LOAD FACTOR	OCCUPANT LOAD
LEVEL 1 EXTERIOR	EXTERIOR SEATING	310 SF	A	15	21
LEVEL 1 EXTERIOR	EXTERIOR SEATING	184 SF	A	15	13
				TOTAL LEVEL 1 EXTERIOR:	34
LEVEL 1 INTERIOR	ENTRY	517 SF	A	15	35
LEVEL 1 INTERIOR	LOUNGE	926 SF	A	15	62
LEVEL 1 INTERIOR	STAFF	136 SF	A	15	10
LEVEL 1 INTERIOR	CHECK-IN	91 SF	B	150	1
LEVEL 1 INTERIOR	CIRCULATION	338 SF	B	150	3
LEVEL 1 INTERIOR	OFFICE	120 SF	B	150	1
LEVEL 1 INTERIOR	OFFICE	117 SF	B	150	1
LEVEL 1 INTERIOR	RESTROOM	42 SF	B	150	1
LEVEL 1 INTERIOR	RESTROOM	57 SF	B	150	1
LEVEL 1 INTERIOR	RESTROOM	57 SF	B	150	1
LEVEL 1 INTERIOR	RESTROOM	42 SF	B	150	1
LEVEL 1 INTERIOR	EXTERIOR STORAGE	392 SF	S	300	2
LEVEL 1 INTERIOR	STORAGE/ UTILITY	103 SF	S	300	1
				TOTAL LEVEL 1 INTERIOR:	120
PICKLEBALL COURTS	PICKLEBALL COURTS	36,033 SF	A	***	60
				TOTAL PICKLEBALL COURTS:	60
				TOTAL OCCUPANTS:	214

*** PICKLEBALL COURTS ASSIGNED 5 OCCUPANTS PER COURT CONFIRMED VIA CORRESPONDENCE WITH CITY OF BEAVERTON



01 LEVEL 01 CODE PLAN
1/16" = 1'-0"

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503.360.1437

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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02.10.2026
DRAWN BY: BTS

BID SET

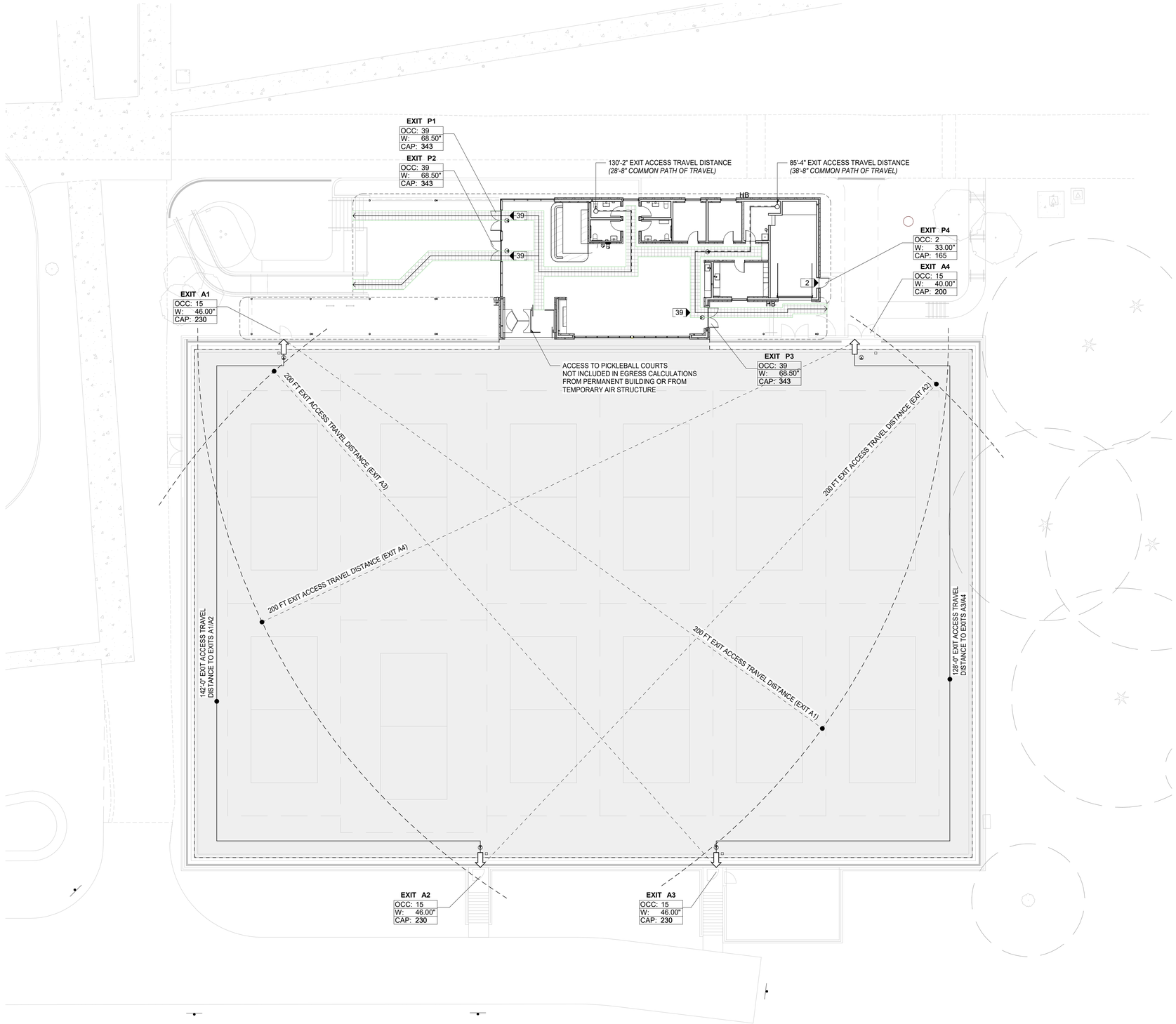
REVISION:

STAMP

REGISTERED ARCHITECT
CORNELL A. ANDERSON
PORTLAND, OREGON
5029
STATE OF OREGON

CODE PLAN

G1.01



EGRESS PLAN NOTES

A. CONTRACTOR TO PROVIDE ALL REQUIRED EXIT SIGNS AND PLACARDS, COORDINATE WITH OWNER AND ARCHITECT.

B. ALL FIRE DETECTION, SPRINKLER & ALARM SYSTEMS TO BE DESIGN BUILD PER DEFERRED SUBMITTAL.

C. REFER TO SPECIFICATIONS FOR DEFERRED BIDDER DESIGN SUBMITTAL REQUIREMENTS FOR AUTOMATIC SPRINKLER SYSTEM, EMERGENCY LIGHTING, BACK-UP POWER, EXIT SIGNS & FIRE DETECTION.

D. REFERENCE ELECTRICAL DRAWINGS FOR ILLUMINATED EXIT SIGNAGE AND EGRESS LIGHTING

E. TRAVEL DISTANCES CALCULATED TO EDGE OF EXTERIOR ROOF STRUCTURES ABOVE.

EGRESS PLAN LEGEND

- # — NUMBER OF OCCUPANTS / DIRECTION OF TRAVEL
- FEC — FIRE EXTINGUISHER CABINET
- FE — FIRE EXTINGUISHER
- EXIT LIGHT
- XX'-X" — EXIT ACCESS TRAVEL DISTANCE
- (XX'-X") — COMMON PATH OF EGRESS TRAVEL DISTANCE
- EXIT DISCHARGE
- EGRESS PATH - 36" WIDE

01 LEVEL 01 EGRESS PLAN
1/16" = 1'-0"

FWD//
FIELDWORK DESIGN & ARCHITECTURE
1752 SE HAWTHORNE BLVD
PORTLAND, OREGON 97214
503.360.1437

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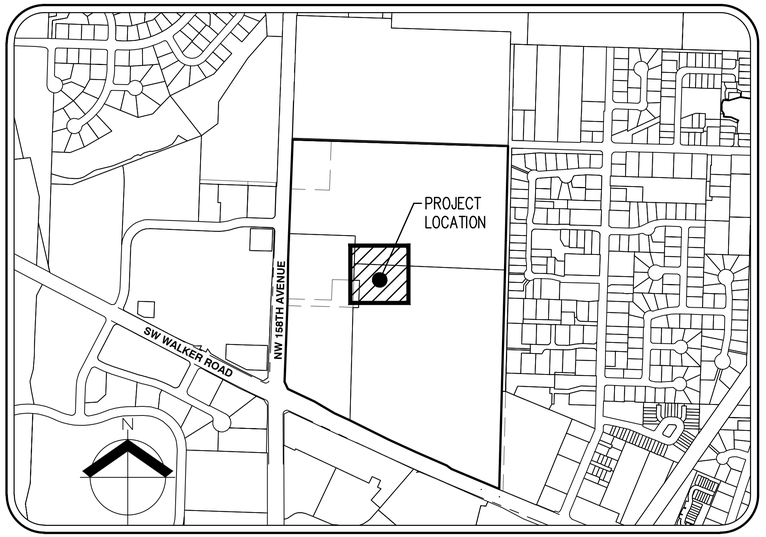
CORNELL A. ANDERSON
PORTLAND, OREGON
5029
STATE OF OREGON

EGRESS PLAN

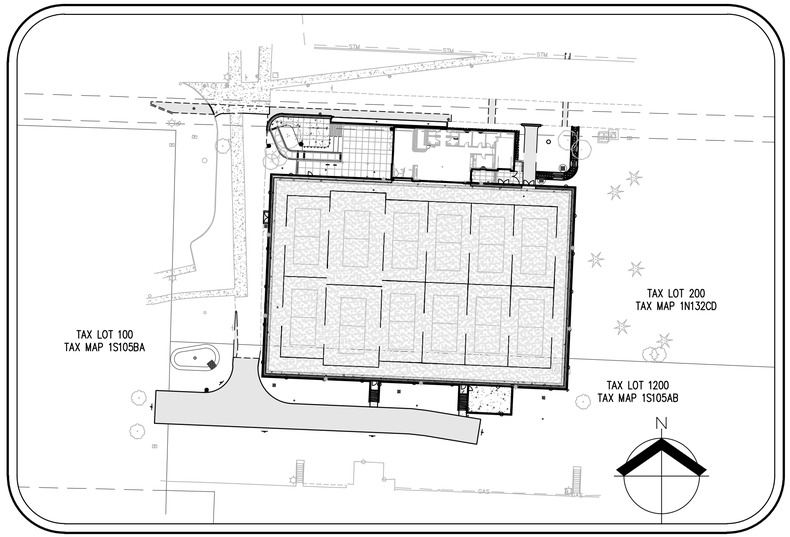
G1.02

THPRD HMT PICKLEBALL FACILITY

CIVIL PERMIT PLAN SET



VICINITY MAP
NOT TO SCALE



SITE MAP
1" = 60'

OWNER/APPLICANT
TUALATIN HILLS PARK & RECREATION DISTRICT
CONTACT: TIM BONNIN
6220 SW 112TH AVENUE, STE 100
BEAVERTON, OR 97006
PHONE: 503.614.4003

ARCHITECTURE FIRM
FIELDWORK DESIGN & ARCHITECTURE, LLC
CONTACT: BRANNON SOENS
1752 SE HAWTHORNE BLVD.
PORTLAND, OR 97214
PHONE: 503.360.1437

CIVIL ENGINEERING/ SURVEYING/ LAND USE PLANNING FIRM
AKS ENGINEERING & FORESTRY, LLC
CONTACT: AUSTIN COLE, PE
12965 SW HERMAN RD, STE 100
TUALATIN, OR 97062
PHONE: 503.563.6151
WWW.AKS-ENG.COM

LANDSCAPE ARCHITECTURE FIRM
RANGE STUDIO, LLC
CONTACT: CAMI CULBERTSON
2222 NE OREGON ST, STE 213
PORTLAND, OR 97232
PHONE: 971.268.8510

GEOTECHNICAL FIRM
CENTRAL GEOTECHNICAL SERVICES
CONTACT: ZANE ROGERS, PE
7662 SW MOHAWK ST
TUALATIN, OR 97062
PHONE: 503.616.9419

POWER
PORTLAND GENERAL ELECTRIC
3700 SW 17TH AVE
PORTLAND, OR 97202
PHONE: 800.544.1793

GAS
NORTHWEST NATURAL
250 SW TAYLOR STREET
PORTLAND, OR 97204
PHONE: 503.220.2415

WATER
CITY OF BEAVERTON WATER
12725 SW MILLIKAN WAY
BEAVERTON, OR 97005

COMMUNICATIONS
COMCAST CABLE
10831 SW CASCADE AVE
TIGARD, OR 97223
PH: 800.934.6489

ZIPLY FIBER
4155 SW CEDAR HILLS BLVD
BEAVERTON, OR 97005
PH: 503.641.4463

MCI (VERIZON)
7174 SW HAZEL FERN ROAD
TIGARD, OR 97224
PH: 800.800.1077

PROPERTY DESCRIPTION
WASHINGTON COUNTY TAX MAPS
1S105BA, 1N132CD, AND 1S105AB
TAX LOTS 100, 200, AND 1200
CITY OF BEAVERTON, OREGON

PROPERTY LOCATION
HOWARD M. TERPENNING RECREATION COMPLEX
15707 SW WALKER ROAD
BEAVERTON, OR 97006
LAT: 45°31'10" N
LONG: 122°50'13" W

VERTICAL DATUM
ELEVATIONS ARE BASED ON
WASHINGTON BENCHMARK NO. 66,
LOCATED AT THE NW CORNER OF SW
AGUSTA LANE AND SW 170TH AVENUE.
ELEVATION = 186.71 FEET (NGVD29)

SHEET INDEX

C000 COVER SHEET WITH VICINITY MAP, SITE MAP, & LEGEND
C001 GENERAL CIVIL CONSTRUCTION NOTES
C002 GENERAL CIVIL CONSTRUCTION NOTES
C003 EXISTING CONDITIONS PLAN
C004 EXISTING CONDITIONS PLAN
C030 DEMOLITION PLAN
C040 TREE PRESERVATION & REMOVAL PLAN
C041 DETAILED TREE INVENTORY NOTES
C050 EROSION & SEDIMENT CONTROL COVER SHEET
C051 CLEARING & DEMOLITION ESCP
C052 MASS GRADING & STABILIZATION PLAN ESCP
C053 FINAL LANDSCAPE & STABILIZATION ESCP
C054 EROSION & SEDIMENT CONTROL DETAILS
C055 EROSION & SEDIMENT CONTROL DETAILS
C070 GRADING PLAN
C100 SITE PLAN
C101 PEDESTRIAN CIRCULATION PLAN
C102 PEDESTRIAN CIRCULATION PLAN
C200 STORMWATER MANAGEMENT PLAN
C201 STORMWATER MANAGEMENT PLAN
C202 STORMWATER MANAGEMENT PLAN
C300 WATER & SANITARY SEWER PLAN
C301 WATER & SANITARY SEWER PLAN
C500 SITE DETAILS
C501 SITE DETAILS
C502 STORMWATER DETAILS
C503 STORMWATER DETAILS
C504 STORMWATER DETAILS
C505 STORMWATER DETAILS
C506 WATER DETAILS

LEGEND

	EXISTING	PROPOSED		EXISTING	PROPOSED
DECIDUOUS TREE			STORM DRAIN CLEAN OUT		
CONIFEROUS TREE			STORM DRAIN CATCH BASIN		
FIRE HYDRANT			STORM DRAIN AREA DRAIN		
WATER BLOWOFF			STORM DRAIN MANHOLE		
WATER METER			GAS METER		
WATER VALVE			GAS VALVE		
DOUBLE CHECK VALVE			GUY WIRE ANCHOR		
AIR RELEASE VALVE			UTILITY POLE		
SANITARY SEWER CLEAN OUT			POWER VAULT		
SANITARY SEWER MANHOLE			POWER JUNCTION BOX		
SIGN			POWER PEDESTAL		
STREET LIGHT			COMMUNICATIONS VAULT		
MAILBOX			COMMUNICATIONS JUNCTION BOX		
			COMMUNICATIONS RISER		

	EXISTING	PROPOSED
RIGHT-OF-WAY LINE		
BOUNDARY LINE		
PROPERTY LINE		
CENTERLINE		
DITCH		
CURB		
EDGE OF PAVEMENT		
GUTTER		
EASEMENT		
FENCE LINE		
GRAVEL EDGE		
POWER LINE	PWR	PWR
OVERHEAD WIRE	OHW	OHW
COMMUNICATIONS LINE	COM	COM
FIBER OPTIC LINE	CFO	CFO
GAS LINE	GAS	GAS
STORM DRAIN LINE	STM	STM
SANITARY SEWER LINE	SAN	SAN
WATER LINE	WAT	WAT
RECLAIMED WATER LINE	NPWAT	NPWAT

Know what's **below.** **Call** before you dig.

ATTENTION EXCAVATORS
OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0001 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS BUT NOT MORE THAN TEN BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.

FWD//
FIELDWORK DESIGN & ARCHITECTURE
1752 SE HAWTHORNE BLVD
PORTLAND, OREGON 97214
503.360.1437

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AKS ENGINEERING & FORESTRY, LLC
12965 SW HERMAN RD, STE 100
TUALATIN, OR 97062
503.563.6151
WWW.AKS-ENG.COM

ENGINEERING · SURVEYING · NATURAL RESOURCES
FORESTRY · PLANNING · LANDSCAPE ARCHITECTURE

THPRD HMT PICKLEBALL FACILITY
15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02/10/2026
DRAWN BY: MNH

BID SET

REVISIONS:

REGISTERED PROFESSIONAL ENGINEER
97708PE
Austin Cole 2026.02.10 15:08:32-08'00'
OREGON
SEPTEMBER 14, 2027
AUSTIN MORGAN COLE
RENEWS: DECEMBER 31, 2027

COVER SHEET WITH VICINITY MAP, SITE MAP, & LEGEND

C000

GENERAL CONDITIONS

1. CONTRACTOR MUST BE LICENSED BY THE STATE OF OREGON AND SHALL PROCURE, AND CONFORM TO ALL CONSTRUCTION PERMITS REQUIRED BY THE CITY OF BEAVERTON AND WASHINGTON COUNTY.
2. OWNER TO PAY ALL PROJECT PERMIT COSTS, INCLUDING BUT NOT LIMITED TO UTILITY TAPPING, TV, AND CHLORINATION COSTS. THE CONTRACTOR SHALL COORDINATE WITH THE GOVERNING JURISDICTION TO DETERMINE APPROPRIATE FEES AND PROVIDE THE OWNER WITH 48 HOURS NOTICE PRIOR TO THE REQUIRED PAYMENT OF FEES OR COSTS.
3. OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (800) 332-2344 OR 811.
4. CONTRACTOR TO NOTIFY CITY, COUNTY, ODOT, AKS PROJECT ENGINEER, AND ALL UTILITY COMPANIES A MINIMUM OF 5 BUSINESS DAYS PRIOR TO START OF CONSTRUCTION AND COMPLY WITH ALL OTHER NOTIFICATION REQUIREMENTS OF AGENCIES WITH JURISDICTION OVER THE WORK.
5. CONTRACTOR SHALL PROCURE A RIGHT-OF-ENTRY PERMIT FROM WASHINGTON COUNTY FOR ALL WORK WITHIN THE COUNTY RIGHT-OF-WAY AND CONFORM TO ALL CONDITIONS OF THE PERMIT.
6. CONTRACTOR SHALL PROVIDE ALL BONDS AND INSURANCE REQUIRED BY PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION. WHERE REQUIRED BY PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION, THE CONTRACTOR SHALL SUBMIT A SUITABLE MAINTENANCE BOND PRIOR TO FINAL PAYMENT.
7. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL COORDINATE A PRE-CONSTRUCTION MEETING BETWEEN THE ENGINEER, OWNER'S REPRESENTATIVE, MAJOR SUBCONTRACTORS, AND PERMITTING AGENCIES. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING ITEMS TO THE OWNER'S REPRESENTATIVE AND ENGINEER.
    A. LIST OF SUBCONTRACTORS
    B. PROJECT SCHEDULE
    C. TRAFFIC CONTROL PLAN
    D. EMERGENCY CONTACT NAME AND PHONE NUMBER
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DOCUMENTS AND PLANS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS/PLANS RELATIVE TO THE SPECIFICATIONS OR THE APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE OWNER'S REPRESENTATIVE SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DOCUMENTS/PLANS IN FULL COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS AND CODES.
9. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE APPROVED PLANS AND THE APPLICABLE PROVISIONS OF THE APPROVING AGENCIES' CONSTRUCTION STANDARDS, THE MOST RECENT EDITION OF THE OREGON PLUMBING SPECIALTY CODE (OPSC), THE MOST RECENT EDITION OF THE OREGON STRUCTURAL SPECIALTY CODE, APWA STANDARDS, OREGON HEALTH DIVISION (OHD), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), OREGON WATER RESOURCES DEPARTMENT (OWRD), AND THE DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ) WHEREIN EACH HAS JURISDICTION.
10. CONTRACTOR SHALL AT ALL TIMES ABIDE BY APPLICABLE SAFETY RULES OF OSHA, IN PARTICULAR THOSE REGULATIONS PERTAINING TO ADEQUATE SHORING AND TRENCH PROTECTION FOR WORKERS.
11. CONSTRUCTION OF ALL PUBLIC FACILITIES SHALL BE DONE WITHIN THE HOURS PERMITTED BY THE GOVERNING JURISDICTION.
12. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET APPLICABLE AGENCY REQUIREMENTS AND PROVIDE A COMPLETED PROJECT.
13. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. DIMENSIONS SHOWN ON THE DRAWINGS ARE FOR HORIZONTAL CONTROL ONLY. CONTRACTOR SHALL REVIEW AND COORDINATE THE BUILDING LAYOUT BY CAREFUL REVIEW OF THE SITE PLAN AND LATEST ARCHITECTURAL PLANS (INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE SUPPRESSION PLAN, WHERE APPLICABLE). CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE AND ARCHITECT OF ANY DISCREPANCIES.
14. CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING BUILDING PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF BUILDING ENTRY/EXIT LOCATIONS, ELEVATIONS, PRECISE BUILDING DIMENSIONS, AND EXACT UTILITY CONNECTION LOCATIONS, AS APPLICABLE.
15. ANY INSPECTION BY THE CITY, COUNTY, AKS, OWNER'S REPRESENTATIVE, OR OTHER AGENCIES SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE CONTRACT DOCUMENTS, APPLICABLE CODES, AND AGENCY REQUIREMENTS.
16. IF THE CONTRACTOR DEVIATES FROM THE APPROVED PLANS, INCLUDING THESE NOTES, WITHOUT FIRST OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER FOR SUCH DEVIATIONS, CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED IN CORRECTING ANY WORK DONE WHICH DEVIATES FROM THE PLANS.
17. AKS HAS NOT BEEN RETAINED OR COMPENSATED TO PROVIDE DESIGN AND CONSTRUCTION REVIEW SERVICES RELATING TO THE CONTRACTOR'S SAFETY PRECAUTIONS, MEANS AND METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES REQUIRED FOR THE CONTRACTOR TO PERFORM WORK REQUIRED. AKS IS NOT A SAFETY INSPECTION COMPANY.
18. CONTRACTOR SHALL MAINTAIN ONE (1) COMPLETE SET OF APPROVED PLANS ON THE CONSTRUCTION SITE AT ALL TIMES WHEREON THEY WILL RECORD ALL APPROVED DEVIATIONS IN CONSTRUCTION FROM THE APPROVED DRAWINGS, AS WELL AS LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES ENCOUNTERED. THESE FIELD RECORD DRAWINGS SHALL BE KEPT UP TO DATE AT ALL TIMES AND SHALL BE AVAILABLE FOR INSPECTION BY THE CITY OR OWNER'S REPRESENTATIVE UPON REQUEST.
19. UPON COMPLETION OF CONSTRUCTION OF ALL NEW FACILITIES, CONTRACTOR SHALL SUBMIT A CLEAN SET OF FIELD RECORD DRAWINGS CONTAINING ALL AS-BUILT INFORMATION TO THE OWNER'S REPRESENTATIVE. ALL INFORMATION SHOWN ON THE CONTRACTOR'S FIELD RECORD DRAWINGS SHALL BE SUBJECT TO VERIFICATION. IF SIGNIFICANT ERRORS OR DEVIATIONS ARE NOTED, AN AS-BUILT SURVEY PREPARED AND STAMPED BY A REGISTERED PROFESSIONAL LAND SURVEYOR SHALL BE COMPLETED AT THE CONTRACTOR'S EXPENSE.
20. CONTRACTOR SHALL CONFORM TO DEQ STORMWATER PERMIT NO. 1200-C FOR CONSTRUCTION ACTIVITIES WHERE 1 ACRE OR MORE ARE DISTURBED.
21. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE CURRENT DEQ EROSION AND SEDIMENT CONTROL MANUAL AND EROSION CONTROL STANDARDS OF THE LOCAL JURISDICTION.
22. THE WORK AREA AND APPROACH ROAD(S) SHALL BE MAINTAINED BY THE CONTRACTOR IN A CLEAN AND SANITARY CONDITION, FREE FROM OBSTRUCTIONS, DEBRIS, AND TRASH AT ALL TIMES.
23. ELEVATIONS SHOWN ON THE DRAWINGS ARE BASED FROM WASHINGTON BENCHMARK NO. 66, ELEVATION 186.71 FEET (NGVD 29), CONSISTING OF A BRASS DISK LOCATED AT THE TOP OF CURB AT THE NORTHWEST CORNER OF SW AUGUSTA LANE AND SW 170TH AVENUE. SURVEYING FOR DESIGN WAS COMPLETED BY AKS ENGINEERING & FORESTRY, LLC AT (503) 563-6151. PROPERTY AND RIGHT-OF-WAY LINES SHOWN ARE APPROXIMATE AND NOT MEANT TO SERVE AS A BOUNDARY SURVEY.
24. THESE PLANS ASSUME AKS ENGINEERING & FORESTRY, LLC WILL BE RETAINED TO PROVIDE CONSTRUCTION STAKING SERVICES (TO INCLUDE OBSERVATION AND SURVEY CONSTRUCTION LAYOUT) DURING CONSTRUCTION OF ALL IMPROVEMENTS. SUFFICIENT OBSERVATION AND CONSULTATION SERVICES BY THE DESIGN ENGINEER IS NECESSARY TO ENSURE CONSTRUCTION IS CONSISTENT WITH THE INTENT OF THESE PLANS AND ANY CHANGES THAT ARE DETERMINED NECESSARY DURING CONSTRUCTION. AKS DOES NOT ACCEPT ANY RESPONSIBILITY OR LIABILITY FOR ITEMS CONSTRUCTED IMPROPERLY BASED ON MISINTERPRETATIONS OF ITEMS SHOWN ON THESE PLANS.
25. THE CONTRACTOR SHALL COORDINATE WITH THE SURVEYOR RETAINED BY THE OWNER OR RETAIN AND PAY FOR THE SERVICES OF A REGISTERED CIVIL ENGINEER AND/OR LAND SURVEYOR LICENSED IN THE STATE OF OREGON TO ESTABLISH CONSTRUCTION CONTROL AND PERFORM INITIAL CONSTRUCTION SURVEYS TO ESTABLISH THE LINES AND GRADES OF IMPROVEMENTS AS INDICATED ON THE DRAWINGS. STAKING FOR BUILDINGS, STRUCTURES, CURBS, GRAVITY DRAINAGE PIPES/STRUCTURES AND OTHER CRITICAL IMPROVEMENTS SHALL BE COMPLETED USING EQUIPMENT ACCURATE TO 0.04 FEET HORIZONTALLY AND 0.02 FEET VERTICALLY, OR BETTER (USE OF GPS EQUIPMENT FOR CONSTRUCTION STAKING OF THESE IMPROVEMENTS IS NOT ALLOWED).
26. SEE ARCHITECTURAL DRAWINGS FOR SITE LIGHTING, SITE DIMENSIONING, AND CONTINUATION OF ALL UTILITIES.
27. CONTRACTOR SHALL CONDUCT CONSTRUCTION ACTIVITIES IN SUCH A MANNER AS TO ENSURE MINIMUM INTERFERENCE WITH THE CONTINUED USE OF THE FACILITY BY EMPLOYEES, SUPPLIERS, AND CUSTOMERS. CONTRACTOR SHALL CONTACT AND DISCUSS PLANNED CONSTRUCTION ACTIVITIES AND TIMING WITH THE OWNER AT LEAST 48 HOURS PRIOR TO STARTING WORK. CONTRACTOR SHALL COOPERATE AND ACCOMMODATE OWNER'S REQUESTS TO THE MAXIMUM EXTENT POSSIBLE.
28. CONSTRUCTION ACTIVITIES, EQUIPMENT, VEHICLES, AND MATERIALS SHALL BE PLACED IN AREAS MINIMIZING INCONVENIENCE TO THE FACILITIES' NORMAL BUSINESS OPERATIONS AND SHALL BE COORDINATED WITH THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO THE START OF WORK.
29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING CONSTRUCTION ACTIVITIES TO ENSURE THAT PUBLIC STREETS AND RIGHTS-OF-WAY ARE KEPT CLEAN OF MUD, DUST OR DEBRIS. DUST ABATEMENT SHALL BE MAINTAINED BY ADEQUATE WATERING OF THE SITE BY THE CONTRACTOR.
30. PRIOR TO FINAL ACCEPTANCE AND PAYMENT, THE CONTRACTOR SHALL CLEAN THE PROJECT SITE AND ADJACENT AREAS OF ANY DEBRIS, DISCARDED MATERIAL, OR OTHER ITEMS DEPOSITED BY THE CONTRACTOR'S PERSONNEL DURING THE PERFORMANCE OF THE WORK.
31. SETTLEMENT OR CRACKING OF FINISHED SURFACES WITHIN THE WARRANTY PERIOD SHALL BE CONSIDERED A FAILURE OF THE FINISHED SURFACE AND/OR SUBGRADE. CONTRACTOR SHALL REPAIR IN A MANNER ACCEPTABLE TO THE ENGINEER, OWNER'S REPRESENTATIVE, AND/OR APPLICABLE JURISDICTION.
32. ELECTRONIC FILES ARE NOT CONSTRUCTION DOCUMENTS. DIFFERENCES MAY EXIST BETWEEN ELECTRONIC FILES AND CORRESPONDING HARD-COPY CONSTRUCTION DOCUMENTS. CONSTRUCTION SHALL BE BASED ON THE STAMPED HARD-COPY DESIGN DRAWINGS AND TECHNICAL SPECIFICATIONS PRODUCED BY AKS. IN THE EVENT THAT A CONFLICT ARISES BETWEEN THE SIGNED OR SEALED HARD-COPY CONSTRUCTION DOCUMENTS AND OR TECHNICAL SPECIFICATIONS PREPARED BY AKS, AND THE ELECTRONIC FILES, THE SIGNED OR SEALED HARD-COPY CONSTRUCTION DOCUMENTS SHALL GOVERN. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF ANY CONFLICTS EXIST. USE OF THE ELECTRONIC FILES DOES NOT RELIEVE YOU OF YOUR DUTY TO FULLY COMPLY WITH THE CONTRACT DOCUMENTS INCLUDING, AND WITHOUT LIMITATION, THE NEED TO CHECK, CONFIRM AND COORDINATE ALL DIMENSIONS AND DETAILS, TAKE FIELD MEASUREMENTS, VERIFY FIELD CONDITIONS, AND COORDINATE YOUR WORK WITH THAT OF OTHER CONTRACTORS FOR THE PROJECT. NO REVISIONS SHALL BE MADE TO THE DESIGN WITHOUT THE EXPRESS WRITTEN CONSENT OF THE DESIGN ENGINEER WHOSE STAMP IS ON THE HARD-COPY DESIGN DRAWINGS AND TECHNICAL SPECIFICATIONS.
33. VOLUMETRIC MEASUREMENTS (CUBIC YARDS) ARE BASED ON IN-PLACE MEASUREMENTS AFTER COMPACTION, UNLESS OTHERWISE SPECIFIED.

TRAFFIC CONTROL

34. CONTRACTOR SHALL ERECT AND MAINTAIN BARRICADES, WARNING SIGNS, AND TRAFFIC CONES PER CITY, COUNTY AND/OR ODOT REQUIREMENTS IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) INCLUDING OREGON AMENDMENTS AND LOCAL JURISDICTIONAL REQUIREMENTS. ACCESS TO DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES. ALL TRAFFIC CONTROL MEASURES SHALL BE APPROVED AND IN PLACE PRIOR TO ANY CONSTRUCTION ACTIVITY.
35. PRIOR TO ANY WORK IN THE EXISTING PUBLIC RIGHT-OF-WAY, CONTRACTOR SHALL SUBMIT A FINAL TRAFFIC CONTROL PLAN TO THE CITY, COUNTY, AND/OR ODOT FOR REVIEW AND ISSUANCE OF A LANE CLOSURE OR WORK IN RIGHT-OF-WAY PERMIT.

TESTING AND INSPECTIONS

36. THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL REQUIRED OR NECESSARY INSPECTIONS ARE COMPLETED BY AUTHORIZED INSPECTORS PRIOR TO PROCEEDING WITH SUBSEQUENT WORK WHICH COVERS OR THAT IS DEPENDENT ON THE WORK TO BE INSPECTED. FAILURE TO OBTAIN NECESSARY INSPECTION(S) AND APPROVAL(S) SHALL RESULT IN THE CONTRACTOR BEING FULLY RESPONSIBLE FOR ALL PROBLEMS ARISING FROM UNINSPECTED WORK.
37. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY INSPECTIONS OR NECESSARY OBSERVATIONS FOR ALL WORK PERFORMED INCLUDING ANY RE-TESTING THAT MAY BE REQUIRED TO MEET SPECIFICATION. THE CONTRACTOR SHALL PERFORM PRE-TESTS PRIOR TO SCHEDULING TESTS THAT MUST BE WITNESSED. TESTING MUST BE PERFORMED BY AN APPROVED THIRD-PARTY INDEPENDENT TESTING LABORATORY RETAINED BY THE CONTRACTOR. CONTRACTOR IS SOLELY RESPONSIBLE FOR SCHEDULING TESTING. ALL TESTING MUST BE COMPLETED PRIOR TO PERFORMING SUBSEQUENT WORK. A COPY OF ALL TESTING RESULTS MUST BE PROVIDED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY UPON COMPLETION OF THE TEST. COSTS FOR ANY RE-TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR.
38. CONTRACTOR SHALL COORDINATE AND SCHEDULE ALL EARTHWORK, SUBGRADE APPROVALS, TRENCH BACKFILL, COMPACTION TESTS, AND OTHER GEOTECHNICAL RELATED ITEMS WITH THE PROJECT GEOTECHNICAL ENGINEER, AND/OR THIRD-PARTY INDEPENDENT TESTING LABORATORY AS APPLICABLE FOR THE PROJECT.
39. THE FOLLOWING TESTING IS THE MINIMUM REQUIRED FOR THE PROJECT.

SUBGRADE	1 TEST/4000 S.F./LIFT (4 TESTS MINIMUM)
ENGINEERED FILLS	1 TEST/4000 S.F./LIFT (4 TESTS MINIMUM)
BASE ROCK	1 TEST/4000 S.F./LIFT (4 TESTS MINIMUM)
ASPHALT	1 TEST/6000 S.F./LIFT (4 TESTS MINIMUM)
TRENCH BACKFILL	1 TEST/200 FOOT TRENCH/LIFT (4 TESTS MINIMUM)
TRENCH AC RESTORATION	1 TEST/200 FOOT TRENCH/LIFT (4 TESTS MINIMUM)
WATER PRESSURE	PER OPSC AND NFPA WITNESSED BY CITY OR OWNER'S REP.
WATER BACTERIAL	PER OREGON HEALTH DIVISION REQUIREMENTS
WATER CHLORINE	RESIDUAL TEST PER CITY REQUIREMENTS
SEWER AIR TEST	PER CITY/APWA REQUIREMENTS. WITNESSED BY OWNER'S REP.
SEWER MANDREL	95% OF ACTUAL PIPE DIAMETER. WITNESSED BY OWNER'S REP.
SEWER MANHOLE	1 VACUUM TEST PER MANHOLE (CITY/APWA STANDARDS). WITNESSED BY OWNER'S REP.
STORM MANDREL	95% OF ACTUAL PIPE DIAMETER. WITNESSED BY OWNER'S REP.
CONCRETE SLUMP & AIR	1 SET OF CYLINDERS/100 C.Y. OF CONCRETE POURED PER DAY. SLUMP AND AIR TESTS REQUIRED ON SAME LOAD AS CYLINDERS.
SPECIAL INSPECTIONS	AS REQUIRED BY OREGON STRUCTURAL SPECIALTY CODE.
RETAINING WALLS	AS REQUIRED BY OREGON STRUCTURAL SPECIALTY CODE AND GEOTECHNICAL/ STRUCTURAL ENGINEER.

40. IN ADDITION TO IN-PLACE DENSITY TESTING, THE SUBGRADE AND BASE ROCK SHALL BE PROOF-ROLLED WITH A LOADED 10-YARD DUMP TRUCK PROVIDED BY THE CONTRACTOR. BASE ROCK PROOF-ROLL SHALL TAKE PLACE IMMEDIATELY PRIOR TO (WITHIN 24 HOURS OF) PAVING AND SHALL BE WITNESSED BY THE OWNER'S REPRESENTATIVE. LOCATION AND PATTERN OF PROOF-ROLL TO BE AS DIRECTED BY OWNER'S REPRESENTATIVE OR APPROVING AGENCY.
41. ALL ENGINEERED FILLS REQUIRE AN APPROVED INDEPENDENT TESTING LABORATORY RETAINED BY THE CONTRACTOR, TO PROVIDE WRITTEN CERTIFICATION STAMPED BY AN OREGON REGISTERED PROFESSIONAL ENGINEER STATING THAT THE SUBGRADE WAS PREPARED AND ALL ENGINEERED FILLS WERE PLACED IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND CONTRACT DOCUMENTS.

EXISTING CONDITIONS

42. THE LOCATION, DEPTHS (IF NOTED), AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEYS. WE DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. ADDITIONAL UTILITIES MAY EXIST WITHIN THE WORK AREA. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
43. ANY UTILITIES LOCATED IN THE FIELD THAT THE CONTRACTOR DISRUPTS OR DAMAGES SHALL BE PROMPTLY REPAIRED TO NEW CONDITION. IF REQUIRED, CONTRACTOR SHALL INSTALL SUITABLE TEMPORARY SERVICE UNTIL REPAIR CAN BE COMPLETED. THE COST OF THE REPAIR OR TEMPORARY SERVICE SHALL BE BORNE BY THE CONTRACTOR.
44. NOTIFY THE OWNER AND OWNER'S REPRESENTATIVE IMMEDIATELY OF ALL UTILITIES EXPOSED. UNIDENTIFIED UTILITIES SHALL NOT BE DISRUPTED OR CUT UNTIL OWNER OR OWNER'S REPRESENTATIVE HAS APPROVED THE CUT OR DISRUPTION.
45. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MARKING ALL EXISTING SURVEY MONUMENTS OF RECORD (INCLUDING BUT NOT LIMITED TO PROPERTY AND STREET MONUMENTS) PRIOR TO CONSTRUCTION. IF ANY SURVEY MONUMENTS ARE REMOVED, DISTURBED OR DESTROYED DURING CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A REGISTERED PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF OREGON TO REFERENCE AND REPLACE ALL SUCH MONUMENTS PRIOR TO SUBSTANTIAL COMPLETION OF THE PROJECT. THE MONUMENTS SHALL BE REPLACED WITHIN A MAXIMUM OF 90 DAYS, AND THE COUNTY SURVEYOR SHALL BE NOTIFIED IN WRITING AS REQUIRED BY PER ORS 209.150.
46. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES WHERE NEW FACILITIES CROSS. ALL UTILITY CROSSINGS SHOWN ON THE DRAWINGS SHALL BE POTHOLED USING HAND TOOLS OR OTHER NON-INVASIVE METHODS PRIOR TO EXCAVATING OR BORING. CONTRACTOR SHALL BE RESPONSIBLE FOR EXPOSING POTENTIAL UTILITY CONFLICTS FAR ENOUGH AHEAD OF CONSTRUCTION TO MAKE NECESSARY GRADE OR ALIGNMENT MODIFICATIONS WITHOUT DELAYING THE WORK. IF GRADE OR ALIGNMENT MODIFICATION IS NECESSARY, CONTRACTOR SHALL NOTIFY THE ENGINEER, AND THE ENGINEER OR THE OWNER'S REPRESENTATIVE SHALL OBTAIN APPROVAL FROM THE CITY PRIOR TO CONSTRUCTION.
47. ALL FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR TO LEAVE EXISTING FACILITIES IN AN EQUAL OR BETTER-THAN-ORIGINAL CONDITION TO THE SATISFACTION OF THE ENGINEER, APPROVING AGENCY, AND OWNER'S REPRESENTATIVE.
48. UTILITIES OR INTERFERING PORTIONS OF UTILITIES THAT ARE ABANDONED IN PLACE SHALL BE REMOVED BY THE CONTRACTOR TO THE EXTENT NECESSARY TO ACCOMPLISH THE WORK. AFTER VERIFYING THE UTILITIES ARE TO BE ABANDONED, THE CONTRACTOR SHALL CLOSE ALL REMAINING OPENINGS WITH CONCRETE PLUGS THAT HAVE A MINIMUM LENGTH EQUAL TO TWO TIMES THE DIAMETER OF THE ABANDONED PIPE.
49. CONTRACTOR SHALL REMOVE ALL EXISTING SIGNS, MAILBOXES, FENCES, LANDSCAPING, ETC., AS REQUIRED TO AVOID DAMAGE DURING CONSTRUCTION AND REPLACE THEM TO EXISTING OR BETTER CONDITION.
50. IF DRAIN/FIELD TILES, SPRINGS, OR GROUNDWATER ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER'S REPRESENTATIVE OF THE CONDITIONS FOUND AND COORDINATE THE ACTIVITIES IN A MANNER THAT WILL ALLOW TIME TO REVIEW THE SITUATION AND PREPARE A PLAN TO PROPERLY MITIGATE THE WATER ENCOUNTERED. DRAIN/FIELD TILES, WHERE FOUND DURING CONSTRUCTION, SHALL BE CONNECTED TO NEW STORM LINES. DRAIN/FIELD TILE OPENINGS DOWNSTREAM OF WHERE THE TILE WAS CONNECTED TO THE STORM LINE SHALL BE PLUGGED WITH CONCRETE WITH A MINIMUM LENGTH EQUAL TO TWO TIMES THE DIAMETER OF THE ABANDONED TILE.
51. ANY SEPTIC TANKS ENCOUNTERED DURING CONSTRUCTION SHALL BE PUMPED OUT AND ABANDONED OR REMOVED IN ACCORDANCE WITH COUNTY SANITARIAN REQUIREMENTS.
52. ANY WELLS ENCOUNTERED SHALL BE ABANDONED PER THE STATE OF OREGON WATER RESOURCES DEPARTMENT REQUIREMENTS.
53. ANY FUEL TANKS ENCOUNTERED SHALL BE REMOVED AND DISPOSED OF PER THE STATE OF OREGON DEQ REQUIREMENTS. BACKFILL WITH COMPACTED GRANULAR MATERIAL.
54. CONTRACTOR SHALL COORDINATE AND PAY ALL COSTS ASSOCIATED WITH REMOVING OR ABANDONING ANY SEPTIC TANKS, WELLS (INCLUDING BOREHOLE PIEZOMETERS), AND FUEL TANKS ENCOUNTERED AS PER REGULATING AGENCY REQUIREMENTS. WHEN SHOWN ON THE DRAWINGS, THESE STRUCTURES SHALL BE REMOVED OR ABANDONED AT THE CONTRACTOR'S EXPENSE. WHEN NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY UPON DISCOVERY OF ANY SEPTIC TANKS, WELLS, OR FUEL TANKS, AND OBTAIN APPROVAL FROM THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A DETAILED COST BREAKDOWN OF ALL WORK RELATED TO REMOVING OR ABANDONING SAID STRUCTURES. THE CONTRACTOR WILL BE REIMBURSED ON A TIME & MATERIALS BASIS OR AT A NEGOTIATED PRICE AS AGREED.
55. PRIOR TO CONNECTING TO EXISTING WATER, SEWER, OR STORM STUBS/LATERALS, CONTRACTOR SHALL CLEAN AND TV THE EXISTING PIPE, SUBMIT TV INSPECTION VIDEO AND REPORT TO ENGINEER AND/OR JURISDICTION FOR REVIEW TO CONFIRM PIPE IS IN ACCEPTABLE CONDITION FOR REUSE.

CLEARING, GRADING, AND PAVING

56. GRADING, COMPACTION, FILLS, ROCK, AND PAVING SHALL CONFORM TO CITY OF BEAVERTON OR WASHINGTON COUNTY STANDARD CONSTRUCTION SPECIFICATIONS FOR WORK WITHIN PUBLIC RIGHT-OF-WAY OR EASEMENTS.
57. PRIVATE GRADING, ROCK, AND PAVING TO CONFORM TO OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (OSSC/ODOT/APWA) AND OREGON STRUCTURAL SPECIALTY CODE, CURRENT EDITIONS.
58. CLEAR AND GRUB WITHIN WORK LIMITS ALL SURFACE VEGETATION, TREES, STUMPS, BRUSH, ROOTS, ETC. DO NOT DAMAGE OR REMOVE TREES EXCEPT AS APPROVED BY THE OWNER'S REPRESENTATIVE OR AS SHOWN ON THE DRAWINGS. PROTECT ALL ROOTS TWO INCHES IN DIAMETER OR LARGER.
59. STRIP WORK LIMITS, REMOVING ALL ORGANIC MATTER, WHICH CANNOT BE COMPACTED INTO A STABLE MASS. ALL TREES, BRUSH, AND DEBRIS ASSOCIATED WITH CLEARING, STRIPPING OR GRADING SHALL BE REMOVED AND DISPOSED OF OFF-SITE.
60. IMMEDIATELY FOLLOWING STRIPPING AND GRADING OPERATIONS, COMPACT SUBGRADE TO 92% OF THE MAXIMUM DRY DENSITY PER ASTM D1557 TEST METHOD (STANDARD PROCTOR). SUBGRADE MUST BE INSPECTED AND APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE AND WRITTEN COMPACTION TEST RESULTS FROM AN INDEPENDENT TESTING LABORATORY MUST BE RECEIVED BEFORE PLACING EMBANKMENTS, ENGINEERED FILLS, OR FINE GRADING FOR BASE ROCK.
61. ALL FILLS SHALL BE ENGINEERED EXCEPT FOR FILLS LESS THAN 18-INCHES IN DEPTH WHICH ARE LOCATED OUTSIDE THE PUBLIC RIGHT-OF-WAY, BUILDING PADS, PARKING LOTS, OR OTHER AREAS TO BE IMPROVED. ENGINEERED FILLS SHALL BE CONSTRUCTED WITH MAXIMUM 18 INCH LIFTS (LOOSE MEASURE) OVER APPROVED SUBGRADE GEOTEXTILE. EACH LIFT SHALL BE COMPACTED AT MOISTURE WITHIN ± 3% OF THE ASTM D1557 OPTIMUM MOISTURE CONTENT.
62. AREAS TO RECEIVE ENGINEERED OR STRUCTURAL FILL SHALL BE PREPARED BY REMOVING ALL ORGANIC AND UNSUITABLE MATERIALS AND PROOF-ROLLING. MATERIAL IN SOFT SPOTS WITHIN AREAS TO BE IMPROVED SHALL BE REMOVED TO THE DEPTH REQUIRED (AS DIRECTED BY THE OWNER'S REPRESENTATIVE) TO PROVIDE A FIRM FOUNDATION AND SHALL BE REPLACED WITH SUITABLE COMPACTED BACKFILL.
63. PRIVATE GRANULAR BASE ROCK SHALL CONFORM TO THE REQUIREMENTS OF OSSC (ODOT/APWA) 00640 (AGGREGATE BASE AND SHOULDERS). COMPACT BASE ROCK TO 95% OF THE MAXIMUM DRY DENSITY PER ASTM D1557 TEST METHOD (MODIFIED PROCTOR). WRITTEN BASE ROCK COMPACTION TEST RESULTS FROM AN INDEPENDENT TESTING LABORATORY MUST BE RECEIVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE BEFORE PLACING AC PAVEMENT.
64. PRIVATE AC PAVEMENT BASE COURSE SHALL BE CLEAN, CRUSHED ROCK OR CRUSHED GRAVEL-AND-SAND MEETING OSSC SECTION 00640 GRADATION WITH THE PROJECT EXCEPTIONS OF <5% PASSING THE NO. 200 SIEVE (BY DRY WEIGHT), MAXIMUM PARTICLE SIZE 1½ INCHES, AND A MINIMUM OF 75% FRACTURED PARTICLES PER AASHTO TP_61. PRIVATE AC PAVEMENT SHALL BE LEVEL 2, ½_INCH DENSE ACP (PG 64_22) WITH MINIMUM LIFT THICKNESS 2.0 INCHES AND MAXIMUM LIFT THICKNESS 3.5 INCHES. AC PAVEMENT SHALL BE COMPACTED TO A MINIMUM OF 92% OF MAXIMUM DENSITY AS DETERMINED BY THE RICE STANDARD METHOD. WRITTEN AC PAVEMENT COMPACTION TEST RESULTS FROM AN INDEPENDENT TESTING LABORATORY MUST BE RECEIVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE BEFORE FINAL PAYMENT.
65. PAVEMENT SURFACE SHALL BE WITHOUT DEPRESSIONS OR PONDING WATER. BONY OR OPEN GRADED PAVEMENT ARE NOT ACCEPTABLE AND SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ACCEPTANCE.
66. CONTRACTOR IS RESPONSIBLE FOR PROTECTING NEW PAVEMENT AGAINST TRAFFIC UNTIL IT HAS COOLED ENOUGH TO PREVENT MARKING OR TRACKING.
67. FOR PARKING LOTS OR PRIVATE ACCESS DRIVES, THE FINAL LIFT OF AC PAVEMENT SHALL NOT BE PLACED UNTIL AFTER THE BUILD

UTILITY TRENCH EXCAVATION AND BACKFILL

86. PIPE LENGTHS SHOWN ON THE PLANS ARE APPROXIMATE, FINAL LENGTHS SHALL BE DETERMINED BY FIELD CONDITIONS. PIPE SLOPES LISTED ARE BASED ON HORIZONTAL LENGTHS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. INVERT ELEVATIONS (IE) LISTED AT STRUCTURES ARE BASED ON THE "THEORETICAL" IE AT THE CENTER OF THE STRUCTURE. FIELD STAKING IS BASED ON THESE PIPE SLOPES AND IE ELEVATIONS. FOR PIPES WITH STEEP SLOPES AND/OR SHORT PIPE RUNS, THE CONTRACTOR NEEDS TO MAKE ADJUSTMENTS FOR THE ACTUAL SLOPE FROM EDGE OF STRUCTURE TO EDGE OF STRUCTURE AND/OR ENSURE PRE-CAST STRUCTURES ACCOMMODATE THE ACTUAL IE AT THE EDGE OF THE STRUCTURE.
87. THE CONTRACTOR SHALL HAVE APPROPRIATE EQUIPMENT ON SITE TO PRODUCE A FIRM, SMOOTH, UNDISTURBED SUBGRADE AT THE TRENCH BOTTOM, TRUE TO GRADE. THE BOTTOM OF THE TRENCH EXCAVATION SHALL BE SMOOTH, FREE OF LOOSE MATERIALS OR TOOTH GROOVES FOR THE ENTIRE WIDTH OF THE TRENCH PRIOR TO PLACING THE GRANULAR BEDDING MATERIAL.
88. ALL PIPES SHALL BE BEDDED WITH MINIMUM 6-INCHES OF 3/4"-0 CRUSHED ROCK BEDDING AND BACKFILLED WITH COMPACTED 3/4"-0 CRUSHED ROCK IN THE PIPE ZONE (CRUSHED ROCK SHALL EXTEND A MINIMUM OF 12-INCHES OVER THE TOP OF THE PIPE IN ALL CASES). CRUSHED ROCK TRENCH BACKFILL SHALL BE USED UNDER ALL AREAS TO BE IMPROVED, INCLUDING PAVEMENT, SIDEWALKS, FOUNDATIONS, BUILDINGS, ETC.
89. GRANULAR TRENCH BACKFILL SHALL BE COMPACT TO THE PERCENT OF MAXIMUM DRY DENSITY DETERMINED BY ASTM D1557 (MODIFIED PROCTOR) AS FOLLOWS (TABLE 3, CGS): 0 TO 2 FT BELOW SUBGRADE -- 95% OF D1557; GREATER THAN 2 FT BELOW SUBGRADE -- 90% OF D1557; PIPE ZONE -- 90% OF D1557.
90. CONTRACTOR SHALL ARRANGE TO ABANDON EXISTING SANITARY AND WATER SERVICES NOT SCHEDULED TO REMAIN IN SERVICE IN ACCORDANCE WITH APPROVING AGENCY REQUIREMENTS.
91. THE END OF ALL UTILITY SERVICE LINES SHALL BE MARKED WITH A 2-X-4 PAINTED WHITE AND WIRED TO PIPE STUB. THE PIPE DEPTH SHALL BE WRITTEN ON THE POST IN 2 INCH BLOCK LETTERS.
92. ALL NON-METALLIC WATER, SANITARY, AND STORM SEWER PIPING SHALL HAVE AN ELECTRICALLY CONDUCTIVE INSULATED 12 GAUGE COPPER TRACER WIRE THE FULL LENGTH OF THE INSTALLED PIPE USING BLUE WIRE FOR WATER AND GREEN WIRE FOR STORM AND SANITARY PIPING. TRACER WIRE SHALL BE EXTENDED UP INTO ALL VALVE BOXES, CATCH BASINS, MANHOLES AND LATERAL CLEANOUT BOXES. TRACER WIRE PENETRATIONS INTO MANHOLES SHALL BE WITHIN 18 INCHES OF THE RIM ELEVATION AND ADJACENT TO MANHOLE STEPS. THE TRACER WIRE SHALL BE TIED TO THE TOP MANHOLE STEP OR OTHERWISE SUPPORTED TO ALLOW RETRIEVAL FROM THE OUTSIDE OF THE MANHOLE.
93. NO TRENCHES IN SIDEWALKS, ROADS, OR DRIVEWAYS SHALL BE LEFT IN AN OPEN CONDITION OVERNIGHT. ALL SUCH TRENCHES SHALL BE CLOSED BEFORE THE END OF EACH WORKDAY, AND NORMAL TRAFFIC AND PEDESTRIAN FLOWS ARE RESTORED. NO TRENCH SHALL BE LEFT AT ANY TIME IN AN UNSAFE CONDITION. THE CONTRACTOR IS RESPONSIBLE AND LIABLE FOR HAZARDS OR DAMAGE RESULTING FROM EXECUTION OF THE WORK.

WATER CONSTRUCTION

94. CITY FORCES TO OPERATE ALL VALVES, INCLUDING FIRE HYDRANTS, ON EXISTING PUBLIC MAINS.
95. NO CONNECTION TO EXISTING WATER LINES SHALL BE MADE WITHOUT AUTHORIZATION FROM THE CITY.
96. ALL WATER AND/OR FIRE LINES AND APPURTENANCES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH AWWA STANDARDS, OREGON ADMINISTRATIVE RULES (OAR), THE OREGON PLUMBING SPECIALTY CODE (OPSC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), AND LOCAL APPROVING JURISDICTION STANDARDS.
97. ALL WATER MAINS SHALL BE CLASS 52 DUCTILE IRON OR C-900 PVC (DR 18). ALL FITTINGS 4-INCHES THROUGH 24-INCHES IN DIAMETER SHALL BE DUCTILE IRON FITTINGS IN CONFORMANCE WITH AWWA C-153 OR AWWA C-110. THE MINIMUM WORKING PRESSURE FOR ALL MECHANICAL JOINT CAST IRON OR DUCTILE IRON FITTINGS 4-INCHES THROUGH 24-INCH IN DIAMETER SHALL BE 350 PSI AND 250 PSI FOR FLANGED FITTINGS.
98. ALL WATER MAINS TO BE INSTALLED WITH A MINIMUM 36-INCH COVER TO FINISH GRADE UNLESS OTHERWISE NOTED OR DIRECTED. WATER SERVICE LINES SHALL BE INSTALLED WITH A MINIMUM 30-INCH COVER. DEEPER DEPTHS MAY BE REQUIRED AS SHOWN ON THE DRAWINGS OR TO AVOID OBSTRUCTIONS AND CONFLICTS.
99. THRUST RESTRAINTS SHALL BE PROVIDED ON ALL BENDS, TEES, AND OTHER DIRECTION CHANGES PER LOCAL JURISDICTION REQUIREMENTS AND AS SPECIFIED OR SHOWN ON THE DRAWINGS. ALL RESTRAINED MECHANICAL JOINT FITTINGS SHALL INCLUDE THE REQUIRED NUMBER OF PUSH-ON PIPE JOINT RESTRAINTS TO OBTAIN THE NECESSARY PIPE RESTRAINED LENGTH.
100. ALL VALVES SHALL BE FLANGE CONNECTED TO ADJACENT TEES OR CROSSES, UNLESS OTHERWISE SHOWN OR APPROVED BY THE ENGINEER.
101. WATER SERVICE PIPE ON THE PUBLIC SIDE OF THE METER SHALL CONFORM TO APPROVING AGENCY CONSTRUCTION STANDARDS.
102. WATER SERVICE PIPE 3-INCHES AND SMALLER ON THE PRIVATE SIDE OF THE METER SHALL BE SCHEDULE 80 PVC OR APPROVED EQUAL. WATER SERVICE PIPE 4-INCHES AND LARGER ON THE PRIVATE SIDE OF THE METER SHALL BE AWWA C900 PVC PIPE (DR 18). PRIVATE WATER SERVICE PIPING SHALL BE HYDROSTATICALLY PRESSURE TESTED TO A MINIMUM OF 150% OF THE MAXIMUM STATIC PRESSURE AT THE SITE. ALL MATERIALS AND WORKMANSHIP FOR PRIVATE WATER LINES SHALL BE INSTALLED IN CONFORMANCE WITH OPSC REQUIREMENTS BY A LICENSED PLUMBER.
103. CONTRACTOR SHALL COORDINATE WITH PROJECT PLUMBER TO INSTALL PRESSURE REGULATOR AND STRAINER PER OPSC CHAPTER 6, IF WATER SUPPLY STATIC PRESSURE EXCEEDS 80 PSI.
104. DOMESTIC, IRRIGATION AND FIRE BACKFLOW PREVENTION DEVICES, BOXES, AND VAULTS SHALL CONFORM TO REQUIREMENTS OF PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING BACKFLOW DEVICES TESTED AND CERTIFIED PRIOR TO FINAL ACCEPTANCE OF THE WORK.
105. CONTRACTOR SHALL COORDINATE POWER SUPPLY TO FIRE VAULT OR BACKFLOW DEVICES AS REQUIRED.
106. CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT AND MATERIALS (INCLUDING PLUGS, BLOWOFFS, VALVES, SERVICE TAPS, ETC.) REQUIRED TO FLUSH, TEST, AND DISINFECT WATER LINES PER PUBLIC AGENCY REQUIREMENTS PRIOR TO PLACING INTO SERVICE.
107. THE WORK SHALL BE PERFORMED IN A MANNER DESIGNATED TO MAINTAIN WATER SERVICE TO BUILDINGS SUPPLIED FROM THE EXISTING WATER LINES. IN NO CASE SHALL SERVICE TO ANY MAIN LINE OR BUILDING BE INTERRUPTED FOR MORE THAN FOUR (4) HOURS IN ANY ONE-DAY. CONTRACTOR SHALL NOTIFY THE CITY AND ALL AFFECTED RESIDENTS AND BUSINESSES A MINIMUM OF 24 BUSINESS HOURS (1 BUSINESS DAY) BEFORE ANY INTERRUPTION OF SERVICE.
108. WHENEVER POSSIBLE THE BOTTOM OF PUBLIC WATER LINES SHALL BE 1.5 FEET OR MORE ABOVE THE TOP OF SANITARY SEWER LINES AT CROSSINGS WITH ONE FULL LENGTH OF THE WATER LINE CENTERED AT THE CROSSING. WHERE SANITARY SEWER LINES CROSS ABOVE OR WITHIN 18-INCHES VERTICAL SEPARATION BELOW A PUBLIC WATER LINE, SEWER MAINS AND/OR SERVICE LATERALS SHALL BE REPLACED WITH A FULL LENGTH OF C900 PVC PIPE (DR 18) CENTERED AT THE CROSSING IN ACCORDANCE WITH OAR 333. CONNECT TO EXISTING SEWER LINES WITH APPROVED RUBBER COUPLINGS.
109. A MINIMUM OF TEN FEET (10') HORIZONTAL SEPARATION, MEASURED FROM EDGE-TO-EDGE, IS REQUIRED BETWEEN PUBLIC WATER AND SANITARY SEWER LINES AND MANHOLES. ALL PUBLIC CONSTRUCTION SHALL CONFORM TO DEQ AND OAR 333 REQUIREMENTS FOR SEPARATION.
110. PRIVATE WATER LINES SHALL HAVE A MINIMUM OF 12-INCH CLEAR ABOVE THE TOP OF PRIVATE SANITARY SEWER LINES AND A MINIMUM OF 12-INCHES OF HORIZONTAL SEPARATION IN ACCORDANCE WITH CURRENT OPSC.
111. THE CONTRACTOR SHALL ENSURE THERE IS AN IRRIGATION SLEEVE TO ALL PLANTER AREAS PRIOR TO POURING CONCRETE OR PAVING.

SANITARY SEWER CONSTRUCTION

112. ALL TAPPING OF EXISTING MUNICIPAL SANITARY SEWER LINES AND MANHOLES MUST BE DONE BY CITY/CONTRACTOR FORCES.
113. SANITARY SEWER PIPE 15-INCHES AND SMALLER SHALL BE SOLID WALL PVC IN CONFORMANCE WITH ASTM D3034, SDR 35. MINIMUM STIFFNESS SHALL BE 46 PSI PER ASTM D-2412 AND JOINT TYPE SHALL BE ELASTOMERIC GASKET CONFORMING TO ASTM D-3212. ALL OTHER APPURTENANCES AND INSTALLATION TO CONFORM TO THE APPROVING AGENCY SPECIFICATIONS. ALL MATERIALS AND WORKMANSHIP FOR PRIVATE SANITARY SEWERS SHALL BE INSTALLED IN CONFORMANCE WITH OPSC REQUIREMENTS.
114. SANITARY SEWER PIPE SHALL BE INSTALLED IN A STRAIGHT ALIGNMENT, UNLESS OTHERWISE SHOWN ON PLANS, WITH A UNIFORM SLOPE BETWEEN STRUCTURES (MANHOLES, CLEANOUTS, ETC.). PIPE BELLS ARE TO BE POSITIONED AT THE UPSTREAM END AND THE PIPE SPIGOTS AT THE DOWNSTREAM END OF THE SANITARY SEWER LINE.
115. ALL PRECAST MANHOLES SHALL BE PROVIDED WITH INTEGRAL RUBBER BOOTS. WHERE MANHOLES WITHOUT INTEGRAL RUBBER BOOTS ARE APPROVED BY THE OWNER'S REPRESENTATIVE AND AGENCY WITH JURISDICTION, A PIPE JOINT SHALL BE PROVIDED ON ALL MAIN LINES WITHIN 1.5 FEET OF THE OUTSIDE FACE OF THE MANHOLE.
116. SANITARY SEWER MANHOLES SHALL BE WATERTIGHT WITH O-RING OR MASTIC KEYLOCK JOINTS. ALL INTERIOR AND EXTERIOR JOINTS AND PIPE OPENINGS ARE TO BE GROUTED WITH NON-SHRINK GROUT. PIPE PENETRATIONS SHALL HAVE NEOPRENE RUBBER BOOTS.
117. SANITARY SEWER LATERALS SHALL BE CONNECTED TO MAIN LINES WITH MANUFACTURED TEES OR WYES.
118. OPENINGS FOR CONNECTIONS TO EXISTING MANHOLES SHALL BE MADE BY CORE-DRILLING THE EXISTING MANHOLE STRUCTURE AND INSTALLING A RUBBER BOOT. CONNECTIONS SHALL BE WATERTIGHT AND SHALL PROVIDE A SMOOTH FLOW INTO AND THROUGH THE MANHOLE WITH NO PONDING. SMALL CHIPPING HAMMERS OR SIMILAR LIGHT TOOLS WHICH WILL NOT DAMAGE OR CRACK THE MANHOLE BASE MAY BE USED TO SHAPE CHANNELS, BUT MAY NOT BE USED TO ENLARGE EXISTING OPENINGS UNLESS AUTHORIZED IN WRITING BY THE OWNER'S REPRESENTATIVE. USE OF PNEUMATIC JACKHAMMERS SHALL BE PROHIBITED.
119. PROJECT PLUMBER SHALL INSTALL BACKFLOW PROTECTION FOR SANITARY SYSTEM IN ACCORDANCE WITH OPSC CHAPTER 7, IF REQUIRED, OR AS SPECIFIED ON PLANS.
120. CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS, EQUIPMENT, AND FACILITIES TO TEST SANITARY SEWER PIPES AND APPURTENANCES FOR LEAKAGE IN ACCORDANCE WITH TESTING SCHEDULE STATED ABOVE OR THE CITY'S CONSTRUCTION STANDARDS, WHICHEVER ARE MORE STRINGENT. LEAKAGE TESTS SHALL INCLUDE AN AIR TEST OF ALL SEWER MAINS AND LATERALS, AND VACUUM TESTING OF THE MANHOLES. MANHOLE TESTING SHALL BE PERFORMED AFTER COMPLETION OF AC PAVEMENT AND FINAL SURFACE RESTORATION.
121. MANHOLES CONSTRUCTED OVER EXISTING SANITARY SEWERS SHALL CONFORM TO THE REQUIREMENTS OF OSSC (ODOT/APWA) 490.41, MANHOLES OVER EXISTING SEWERS. THE EXISTING PIPE SHALL NOT BE BROKEN OUT UNTIL AFTER THE COMPLETION OF THE MANHOLE TEST.
122. BEFORE MANDREL TESTING AND/OR TV INSPECTION, ALL TRENCH COMPACTION SHALL BE COMPLETED, FLUSH AND CLEAN ALL SANITARY SEWERS, AND REMOVE ALL FOREIGN MATERIAL FROM THE PIPES AND MANHOLES.
123. CONTRACTOR SHALL CONDUCT DEFLECTION TEST OF FLEXIBLE SANITARY SEWER PIPES BY PULLING AN APPROVED MANDREL THROUGH THE COMPLETED PIPELINE FOLLOWING TRENCH COMPACTION. THE DIAMETER OF THE MANDREL SHALL BE 95% OF THE INITIAL PIPE DIAMETER. TEST SHALL BE CONDUCTED NOT LESS THAN 30 DAYS AFTER THE TRENCH BACKFILLING AND COMPACTION HAS BEEN COMPLETED, UNLESS OTHERWISE APPROVED BY THE CITY AND OWNER'S REPRESENTATIVE.
124. UPON COMPLETION OF ALL SANITARY SEWER CONSTRUCTION, TESTING, AND REPAIR, THE CONTRACTOR SHALL CONDUCT A COLOR TV ACCEPTANCE INSPECTION OF ALL PUBLIC MAIN LINES IN ACCORDANCE WITH OSSC (ODOT/APWA) 445.74 TO DETERMINE COMPLIANCE WITH GRADE REQUIREMENTS OF OSSC (ODOT/APWA) 445.40.B. THE TV INSPECTION SHALL BE CONDUCTED BY AN APPROVED TECHNICAL SERVICE, WHICH IS EQUIPPED TO MAKE AUDIO-VISUAL RECORDINGS OF THE TV INSPECTIONS. UNLESS OTHERWISE REQUIRED BY AGENCY WITH JURISDICTION, A STANDARD 1-INCH DIAMETER BALL SHALL BE SUSPENDED IN FRONT OF THE CAMERA DURING THE INSPECTION. SUFFICIENT WATER TO REVEAL LOW AREAS OR REVERSE GRADES SHALL BE DISCHARGED INTO THE PIPE IMMEDIATELY BEFORE INITIATION OF THE TV INSPECTION. THE RECORDING AND WRITTEN REPORT SHALL BE DELIVERED TO THE CITY.

STORM DRAIN CONSTRUCTION

125. ALL TAPPING OF EXISTING MUNICIPAL STORM DRAIN MAINS AND MANHOLES MUST BE DONE BY CITY/CONTRACTOR FORCES.
126. STORM DRAIN PIPE MATERIALS TO CONFORM TO THE CONSTRUCTION DRAWINGS AND CITY REQUIREMENTS. STORM DRAIN PIPE MUST BE INSTALLED WITH WATERTIGHT JOINTS. CONTRACTOR SHALL USE UNIFORM PIPE MATERIAL ON EACH PIPE RUN BETWEEN STRUCTURES UNLESS OTHERWISE DIRECTED OR APPROVED. JOINTED HDPE PIPE SHALL NOT BE USED FOR SLOPES EXCEEDING TEN PERCENT (10%). ALL MATERIALS AND WORKMANSHIP FOR ALL PRIVATE STORM DRAINS SHALL BE INSTALLED IN CONFORMANCE WITH OPSC REQUIREMENTS.

STORM PIPE COVER DEPTH (MEASURED FROM FINISH GRADE TO TOP OF PIPE)	STORM PIPE MATERIAL
LESS THAN 2 FEET	CLASS 52 DUCTILE IRON PIPE (4"); CLASS 50 DUCTILE IRON PIPE (6" TO 12"); CLASS 51 DUCTILE IRON PIPE (14" TO 18") WITH BELL AND SPIGOT JOINTS AND RUBBER GASKETS.
2 FEET OR MORE	CLASS 3, ASTM C-14 NON-REINFORCED CONCRETE PIPE ASTM 150 TYPE II CEMENT; OR PVC PIPE CONFORMING TO AWWA C900 DR 18 (4" TO 12") OR AWWA C900 DR 18 (14" TO 18") WITH BELL AND SPIGOT JOINTS AND RUBBER GASKETS. 21" TO 30" PIPE SHALL BE CLASS IV, ASTM C-76 REINFORCED CONCRETE PIPE WITH BELL AND SPIGOT JOINTS AND RUBBER GASKETS WITH ASTM 150 TYPE II CEMENT.
2.5 FEET OR MORE	PVC PIPE CONFORMING TO ASTM D-3034 SOLID WALL PVC SDR 35 WITH BELL AND SPIGOT JOINTS AND RUBBER GASKETS (4" TO 18"); OR HDPE ADS N-12 IB ST, HANCOR SURE-LOK F477 PIPE SHALL BE INSTALLED FOR PIPE SLOPES LESS THAN 6% (6" TO 30") AND HDPE ADS N-12 IB WT, HANCOR BLUE SEAL PIPE SHALL BE INSTALLED FOR PIPE SLOPES GREATER THAN OR EQUAL TO 6% BUT LESS THAN 10% (6" TO 30"). HDPE PIPE IF USED SHALL CONFORM TO AASHTO M-252 (8" TO 10") OR AASHTO M-294 (12" TO 30") AND HAVE DEPTH TO INVERT OF LESS THAN 12 FEET.

127. STORM DRAIN PIPE SHALL BE INSTALLED IN A STRAIGHT ALIGNMENT, UNLESS OTHERWISE SHOWN ON PLANS, WITH A UNIFORM SLOPE BETWEEN STRUCTURES (MANHOLES, CLEANOUTS, CATCH BASINS, ETC.). PIPE BELLS ARE TO BE POSITIONED AT THE UPSTREAM END AND THE PIPE SPIGOTS AT THE DOWNSTREAM END OF THE STORM DRAIN LINE.
128. CONTRACTOR SHALL INDICATE THE PIPE MATERIAL ACTUALLY INSTALLED ON THE FIELD RECORD DRAWINGS AND PROVIDE THIS INFORMATION FOR INCLUSION ON THE AS-BUILT DRAWINGS.
129. STORM DRAIN INLETS SHALL BE SET SQUARE WITH BUILDINGS, OR WITH THE EDGE OF THE PARKING LOT OR STREET WHEREIN THEY LIE. STORM DRAIN INLET STRUCTURES AND PAVING SHALL BE ADJUSTED SO WATER FLOWS INTO THE STRUCTURE WITHOUT PONDING WATER.
130. CATCH BASIN AND CURB INLET LEAD LENGTHS ARE TO THE CENTER OF STRUCTURE. FIELD STAKING IS BASED ON CENTER OF STRUCTURE UNLESS OTHERWISE NOTED OR OTHER ARRANGEMENTS ARE MADE BETWEEN CONTRACTOR AND PROJECT SURVEYOR PROVIDING FIELD STAKING.
131. UNLESS OTHERWISE APPROVED BY THE ENGINEER, ALL STORM DRAIN CONNECTIONS SHALL BE BY MANUFACTURED WYES.
132. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, ALL STORM PIPE INLETS AND OUTFALLS DAYLIGHTING TO STORMWATER FACILITIES/DITCHES /SWALES SHALL BE BEVELED FLUSH TO MATCH THE SLOPE WHEREIN THEY LIE.
133. ALL PVC PIPES DISCHARGING TO STORM FACILITIES AND SUNLIGHT EXPOSED SHALL BE PAINTED WITH EARTH-COLORED EXTERIOR PAINT AS RECOMMENDED BY THE MANUFACTURER FOR ABOVEGROUND UV EXPOSURE.
134. DEFLECT STORM DRAIN PIPE INTO CATCH BASINS, INLETS, AND MANHOLES AS REQUIRED. MAXIMUM JOINT DEFLECTION SHALL NOT EXCEED 5 DEGREES OR MANUFACTURER'S RECOMMENDATIONS, WHICHEVER IS LESS.
135. INSTALL STORM DRAIN PIPE IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION GUIDELINES.
136. BEFORE MANDREL TESTING OR FINAL ACCEPTANCE, ALL TRENCH COMPACTION SHALL BE COMPLETED, FLUSH AND CLEAN ALL STORM DRAINS, AND REMOVE ALL FOREIGN MATERIAL FROM THE PIPES, MANHOLES, AND CATCH BASINS.
137. CONTRACTOR SHALL CONDUCT DEFLECTION TEST OF FLEXIBLE STORM DRAIN PIPES BY PULLING AN APPROVED MANDREL THROUGH THE COMPLETED PIPE LINE FOLLOWING TRENCH COMPACTION. THE DIAMETER OF THE MANDREL SHALL BE 95% OF THE INITIAL PIPE DIAMETER. TEST SHALL BE CONDUCTED NOT MORE THAN 30 DAYS AFTER THE TRENCH BACKFILLING AND COMPACTION HAS BEEN COMPLETED.
138. UPON COMPLETION OF ALL STORM DRAIN CONSTRUCTION, TESTING, AND REPAIR, THE CONTRACTOR SHALL CONDUCT A COLOR TV ACCEPTANCE INSPECTION OF ALL PUBLIC MAIN LINES IN ACCORDANCE WITH OSSC (ODOT/APWA) 445.74 TO DETERMINE COMPLIANCE WITH GRADE REQUIREMENTS OF OSSC (ODOT/APWA) 445.40.B. THE TV INSPECTION SHALL BE CONDUCTED BY AN APPROVED TECHNICAL SERVICE, WHICH IS EQUIPPED TO MAKE AUDIO-VISUAL RECORDINGS OF THE TV INSPECTIONS. UNLESS OTHERWISE REQUIRED BY AGENCY WITH JURISDICTION, A STANDARD 1-INCH DIAMETER BALL SHALL BE SUSPENDED IN FRONT OF THE CAMERA DURING THE INSPECTION. SUFFICIENT WATER TO REVEAL LOW AREAS OR REVERSE GRADES SHALL BE DISCHARGED INTO THE PIPE IMMEDIATELY BEFORE INITIATION OF THE TV INSPECTION. THE RECORDING AND WRITTEN REPORT SHALL BE DELIVERED TO THE CITY.

SITE LIGHTING

139. LIGHT POLES SHALL BE INSTALLED AFTER ALL OTHER EARTHWORK AND UTILITY INSTALLATIONS ARE COMPLETED, AND AFTER ROUGH GRADING IS ACCOMPLISHED TO PREVENT DAMAGE TO THE POLES.
140. LIGHT POLES SHALL BE SET TO A DEPTH AS SPECIFIED BY THE MANUFACTURER, BUT NOT LESS THAN 5 FEET.
141. LIGHT POLES SHALL BE INSTALLED WITHIN ONE DEGREE (1°) OF PLUMB.
142. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND PAY ALL COSTS FOR PROCUREMENT, INSTALLATION, WIRING, HOOK UP, AND ACTIVATION OF SITE LIGHTS.

FRANCHISE UTILITIES

143. ALL NEW FRANCHISE AND PRIVATE UTILITIES (POWER, CABLE TV, TELEPHONE, GAS, DATA, COMMUNICATION, ALARMS, ETC.) SHALL BE INSTALLED UNDERGROUND IN CONFORMANCE WITH UTILITY SERVICE PROVIDER INSTALLATION SPECIFICATIONS AND STANDARDS. INSTALLATION OF SUCH UTILITIES OR ASSOCIATED CONDUITS IN A COMMON TRENCH WITH WATER, SANITARY SEWER, OR STORM DRAIN IS PROHIBITED.
144. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH POWER, GAS, TELEPHONE, AND CABLE TV COMPANIES FOR ALL DRY UTILITIES, COMMON TRENCHES, LOCATION OF CONDUITS, VAULTS, TRANSFORMERS, AND FOR RELOCATION OF VAULTS, PEDESTALS, ETC. CONTRACTOR IS RESPONSIBLE FOR PROVIDING FRANCHISE UTILITIES WITH ADEQUATE ACCESS AND NOTICE FOR WHEN THE OPEN TRENCH IS AVAILABLE. ALL ABOVE-GRADE FACILITIES SHALL BE PLACED IN A PUBLIC UTILITY EASEMENT (PUE) AND OUTSIDE THE PROPOSED SIDEWALK LOCATION.
145. INSTALLATION OF PRIVATE UTILITIES ALSO INCLUDING FRANCHISE OR PRIVATE WATER, SANITARY SEWER, OR STORM DRAIN SERVICES WITHIN 3 FEET HORIZONTALLY OF AND PARALLELING PUBLIC WATER, SANITARY SEWER, OR STORM DRAINS IS NOT ALLOWED.
146. POWER, TELEPHONE, AND TV TRENCHING AND CONDUITS SHALL BE INSTALLED PER UTILITY COMPANY REQUIREMENTS WITH PULL WIRE. CONTRACTOR SHALL VERIFY WITH UTILITY COMPANY FOR SIZE, LOCATION, AND TYPE OF CONDUIT BEFORE CONSTRUCTION AND SHALL ENSURE THAT TRENCHES ARE ADEQUATELY PREPARED FOR INSTALLATION PER UTILITY COMPANY REQUIREMENTS. ALL CHANGES IN DIRECTION OF UTILITY CONDUIT RUNS SHALL HAVE LONG RADIUS STEEL BENDS.
147. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH FRANCHISE UTILITIES FOR REMOVAL OR RELOCATION OF POWER POLES, VAULTS, PEDESTALS, MANHOLES, ETC., TO AVOID CONFLICT WITH CITY UTILITY STRUCTURES, FIRE HYDRANTS, METERS, SEWER OR STORM LATERALS, ETC.
148. ALL FRANCHISE UTILITY STRUCTURES (VAULTS, PEDESTALS, LIGHT POLES, ETC.) SHALL BE SET A MINIMUM OF 1 FOOT FROM ANY PROPERTY CORNER OR SURVEY MONUMENT.

AMERICANS WITH DISABILITIES ACT (ADA) NOTES

149. CONTRACTOR SHALL EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ADA ACCESSIBLE COMPONENTS ON THE PROJECT. THE ADA COMPONENTS MUST COMPLY WITH ALL LOCAL, STATE, AND FEDERAL ACCESSIBILITY RULES, CODES, AND REGULATIONS.
150. FINISHED SURFACES ALONG THE ACCESSIBLE PATH OF TRAVEL FROM PARKING STALLS, PUBLIC TRANSPORTATION, AND PEDESTRIAN ACCESSWAYS TO THE POINT(S) OF ACCESSIBLE BUILDING INGRESS AND EGRESS SHALL COMPLY WITH ADA CODE REQUIREMENTS.
151. PARKING SPACE AND AISLE SLOPE SHALL NOT EXCEED 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION.
152. CURB RAMP SLOPE SHALL NOT EXCEED 1:12 (8.3%) FOR A MAXIMUM OF SIX (6) FEET.
153. LANDINGS SHALL BE PROVIDED AT EACH END OF RAMPS, SHALL HAVE POSITIVE DRAINAGE, AND SHALL NOT EXCEED 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION.
154. PATH OF TRAVEL ALONG ACCESSIBLE ROUTE SHALL PROVIDE A MINIMUM OF 36 INCH UNOBSTRUCTED WIDTH OF TRAVEL. THE SLOPE SHALL BE NO GREATER THAN 1:20 (5.0% OR 5/8" PER FOOT) IN THE DIRECTION OF TRAVEL AND SHALL NOT EXCEED 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) IN CROSS SLOPE. WHERE PATH OF TRAVEL WILL BE GREATER THAN 1:20 (5.0%), AN ACCESSIBLE RAMP WITH A MAXIMUM SLOPE OF 1:12 (8.3%) FOR A MAXIMUM DISTANCE OF 30 FEET SHALL BE PROVIDED INCLUDING HANDRAILS. THE RAMP SHALL HAVE ACCESSIBLE HANDRAILS AND LANDINGS ON EACH END WITH A SLOPE IN ANY DIRECTION NOT EXCEEDING 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%).
155. DOORWAYS SHALL HAVE A LANDING AREA ON THE EXTERIOR SIDE OF THE DOOR THAT IS SLOPED AWAY FROM BUILDINGS NO MORE THAN 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA SHALL BE NO LESS THAN 60 INCHES (5 FEET) LONG, EXCEPT WHERE OTHERWISE PERMITTED BY ACCESSIBILITY STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS AND APPROVED BY THE OWNER'S REPRESENTATIVE.

RETAINING WALLS (RW)

156. WALL ELEVATIONS SHOWN ARE FOR GRADING AND UTILITY INSTALLATION PURPOSES ONLY.
157. WHERE RETAINING WALLS ARE IDENTIFIED ON THE PLANS, ELEVATIONS IDENTIFIED ARE FOR THE EXPOSED PORTION OF THE WALL. BASE OF RETAINING WALL (BOTTOM OF FOOTING) TO BE DETERMINED BY PROJECT GEOTECHNICAL/STRUCTURAL ENGINEER AND COORDINATED BY CONTRACTOR DURING CONSTRUCTION.
158. FOUNDATION ELEVATIONS ARE NOT IDENTIFIED AND ARE TO BE DETERMINED BY THE CONTRACTOR.

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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02/10/2026
DRAWN BY: MNH

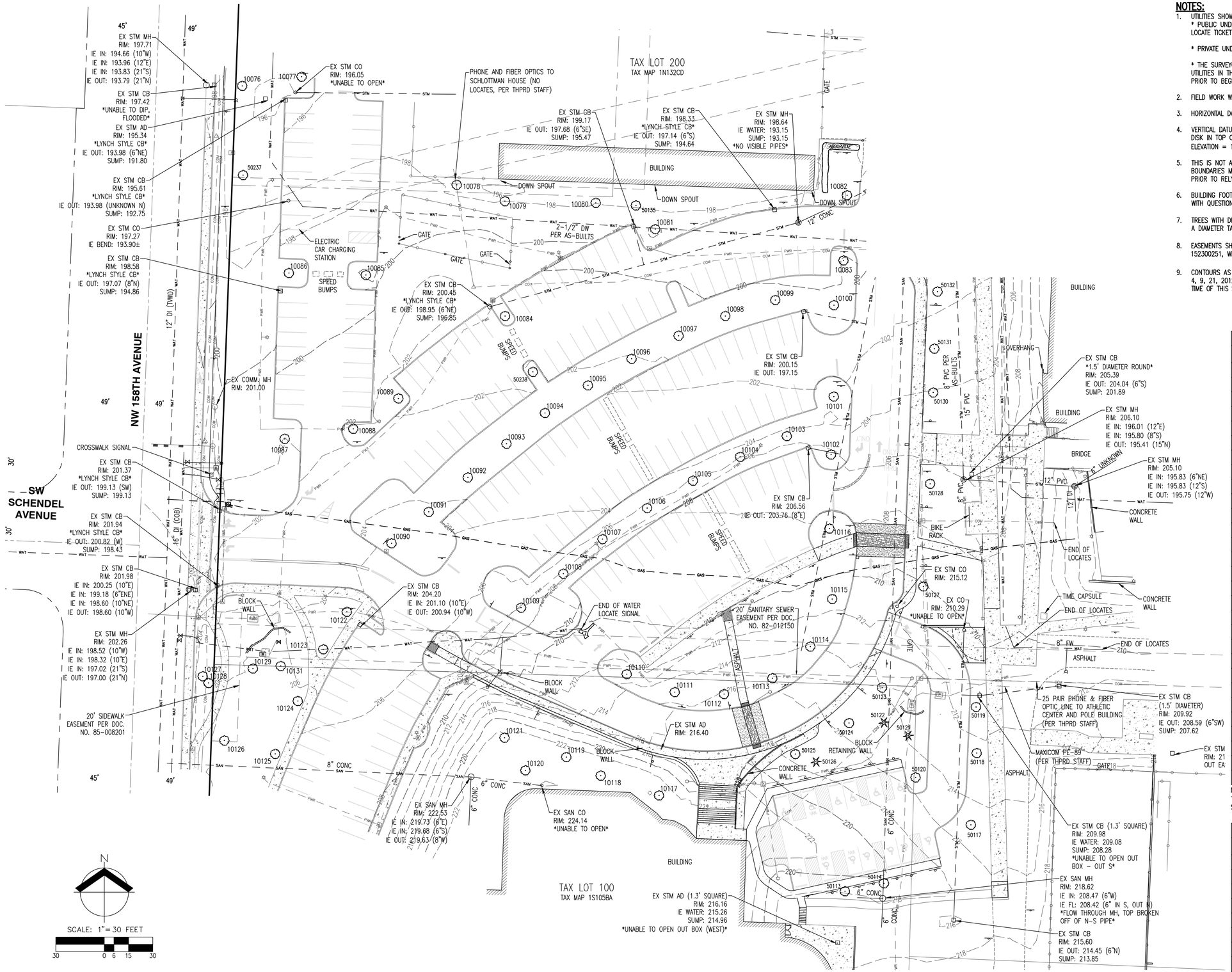
BID SET

REVISIONS:

REGISTERED PROFESSIONAL ENGINEER
97708PE
Austin Cole 2026.02.10 15:08:36-08'00'
OREGON
SEPTEMBER 14, 2027
AUSTIN MORGAN COLE
RENEWS: DECEMBER 31, 2027

GENERAL CIVIL CONSTRUCTION NOTES

C002



NOTES:

1. UTILITIES SHOWN ARE BASED ON:
   * PUBLIC UNDERGROUND UTILITY LOCATE MARKINGS AS PROVIDED BY OTHERS, PROVIDED PER UTILITY LOCATE TICKET NUMBER 25090232.

   * PRIVATE UNDERGROUND UTILITY LOCATE MARKINGS AS PROVIDED BY RECON LOCATES.

   * THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND LOCATES REPRESENT THE ONLY UTILITIES IN THE AREA. CONTRACTORS ARE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
2. FIELD WORK WAS CONDUCTED APRIL 4, 2025.
3. HORIZONTAL DATUM: COORDINATES ARE BASED ON OREGON STATE PLANE NORTH.
4. VERTICAL DATUM: ELEVATIONS ARE BASED ON WASHINGTON COUNTY BENCHMARK NO. 66, A BRASS DISK IN TOP OF CURB AT THE NORTHWEST CORNER OF SW AUGUSTA LANE AND SW 170TH AVENUE. ELEVATION = 186.71 (NGVD 29).
5. THIS IS NOT A PROPERTY BOUNDARY SURVEY TO BE RECORDED WITH THE COUNTY SURVEYOR. BOUNDARIES MAY BE PRELIMINARY AND SHOULD BE CONFIRMED WITH THE STAMPING SURVEYOR PRIOR TO RELYING ON FOR DETAILED DESIGN OR CONSTRUCTION.
6. BUILDING FOOTPRINTS ARE MEASURED TO SIDING UNLESS NOTED OTHERWISE. CONTACT SURVEYOR WITH QUESTIONS REGARDING BUILDING TIES.
7. TREES WITH DIAMETER OF 6" AND GREATER ARE SHOWN. TREE DIAMETERS WERE MEASURED UTILIZING A DIAMETER TAPE AT BREAST HEIGHT. TREE INFORMATION IS SUBJECT TO ARBORIST INSPECTION.
8. EASEMENTS SHOWN ARE BASED ON A TITLE REPORT FROM LAWYERS TITLE OF OREGON, ORDER NO. 1523001251, WITH AN EFFECTIVE DATE OF DECEMBER 6, 2023.
9. CONTOURS AS SHOWN ARE BASED ON HISTORICAL TOPOGRAPHIC DATA COLLECTED ON DECEMBER 3, 4, 9, 21, 2012 AND JANUARY 7–11, 2013 AND MAY NOT REPRESENT EXISTING CONDITIONS AT THE TIME OF THIS SURVEY. CONTOUR INTERVAL IS 1.00 FOOT.

TREE TABLE		
TREE NUMBER	TYPE	DBH (IN.)
10086	DECIDUOUS	20
10087	DECIDUOUS	22
10122	DECIDUOUS	20
10123	DECIDUOUS	16
10124	DECIDUOUS	13
10127	DECIDUOUS	34
10128	DECIDUOUS	22
10129	DECIDUOUS	12
10131	DECIDUOUS	18
50113	DECIDUOUS	6
50114	DECIDUOUS	6
50117	DECIDUOUS	6
50118	DECIDUOUS	6
50119	DECIDUOUS	7
50120	DECIDUOUS	7
50121	CONIFEROUS	8
50122	CONIFEROUS	7
50123	DECIDUOUS	6
50124	DECIDUOUS	6
50125	DECIDUOUS	7
50126	CONIFEROUS	7
50127	DECIDUOUS	7
50128	DECIDUOUS	8
50130	DECIDUOUS	7
50131	DECIDUOUS	7
50132	DECIDUOUS	6
50135	DECIDUOUS	7
50237	DECIDUOUS	7
50238	DECIDUOUS	6

NOTE: TREES LISTED IN THIS TABLE WERE TIED AND/OR VERIFIED AS PART OF THIS SURVEY.

TREE TABLE		
TREE NUMBER	TYPE	DBH (IN.)
10076	DECIDUOUS	23
10077	DECIDUOUS	9
10078	DECIDUOUS	18
10079	DECIDUOUS	6
10080	DECIDUOUS	6
10081	DECIDUOUS	11
10082	DECIDUOUS	12
10083	DECIDUOUS	7
10084	DECIDUOUS	10
10085	DECIDUOUS	10

TREE TABLE		
TREE NUMBER	TYPE	DBH (IN.)
10088	DECIDUOUS	10
10089	DECIDUOUS	9
10090	DECIDUOUS	14
10091	DECIDUOUS	15
10092	DECIDUOUS	15
10093	DECIDUOUS	15
10094	DECIDUOUS	15
10095	DECIDUOUS	13
10096	DECIDUOUS	14
10097	DECIDUOUS	14
10098	DECIDUOUS	12
10099	DECIDUOUS	12
10100	DECIDUOUS	14
10101	DECIDUOUS	11
10102	DECIDUOUS	13
10103	DECIDUOUS	13
10104	DECIDUOUS	11
10105	DECIDUOUS	11
10106	DECIDUOUS	10
10107	DECIDUOUS	13
10108	DECIDUOUS	14
10109	DECIDUOUS	15
10110	DECIDUOUS	13
10111	DECIDUOUS	12
10112	DECIDUOUS	10
10113	DECIDUOUS	13
10114	DECIDUOUS	18
10115	DECIDUOUS	15
10116	DECIDUOUS	8
10117	DECIDUOUS	6
10118	DECIDUOUS	6
10119	DECIDUOUS	9
10120	DECIDUOUS	6
10121	DECIDUOUS	7
10125	DECIDUOUS	10
10126	DECIDUOUS	32
12010	DECIDUOUS	9
12011	DECIDUOUS	7
12012	DECIDUOUS	8
12013	DECIDUOUS	8

NOTE: TREES LISTED IN THIS TABLE ARE SHOWN PER PLANS FOR "TUALATIN HILLS PARK & RECREATION DISTRICT HMT-ADA IMPROVEMENTS", ISSUED BY AKS, DATED 06/26/2014.

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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 04/22/2025
DRAWN BY: SPS

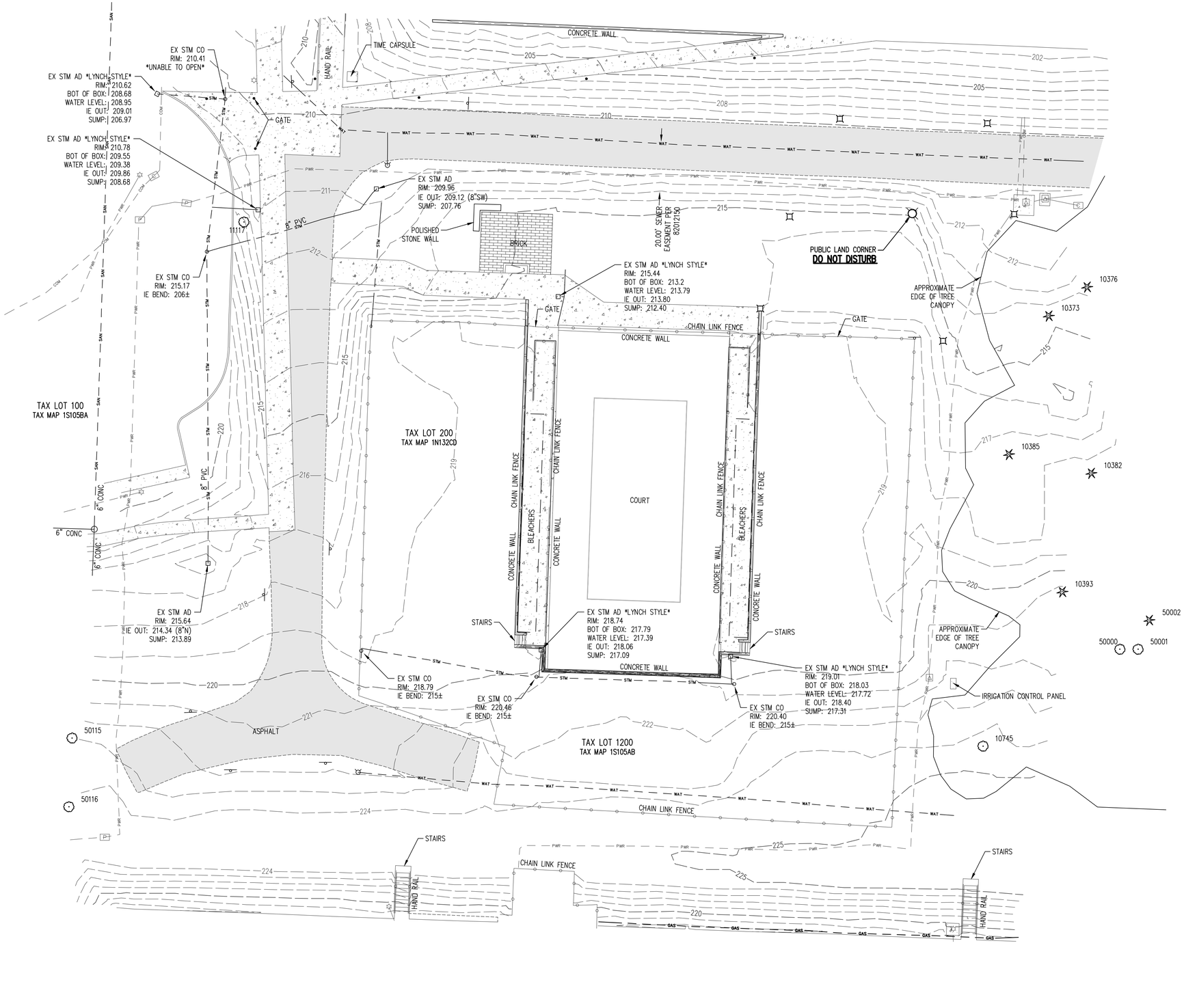
BID SET

REVISIONS:

REGISTERED PROFESSIONAL LAND SURVEYOR
Austin Butz
2026.02.10 08:37-08'00'
OREGON
JULY 9, 2024
MICHAEL T. BUTZ
95516PLS
RENEWS: 12/31/27

EXISTING CONDITIONS PLAN

C003



LEGEND

EXISTING		EXISTING
DECIDUOUS TREE		STORM DRAIN CLEAN OUT
CONIFEROUS TREE		STORM DRAIN CATCH BASIN
		STORM DRAIN AREA DRAIN
FIRE HYDRANT		STORM DRAIN MANHOLE
WATER BLOWOFF		GAS METER
WATER METER		GAS VALVE
WATER VALVE		GUY WIRE ANCHOR
DOUBLE CHECK VALVE		UTILITY POLE
AIR RELEASE VALVE		POWER VAULT
SANITARY SEWER CLEAN OUT		POWER JUNCTION BOX
SANITARY SEWER MANHOLE		POWER PEDESTAL
SIGN		COMMUNICATIONS VAULT
STREET LIGHT		COMMUNICATIONS JUNCTION BOX
MAILBOX		COMMUNICATIONS RISER

EXISTING	
RIGHT-OF-WAY LINE	
BOUNDARY LINE	
PROPERTY LINE	
CENTERLINE	
DITCH	
CURB	
EDGE OF PAVEMENT	
EASEMENT	
FENCE LINE	
GRAVEL EDGE	
POWER LINE	PWR
OVERHEAD WIRE	OHW
COMMUNICATIONS LINE	COM
FIBER OPTIC LINE	CFO
GAS LINE	GAS
STORM DRAIN LINE	STM
SANITARY SEWER LINE	SAN
WATER LINE	WAT
RECLAIMED WATER LINE	NPWAT

NOTES:

1. UTILITIES SHOWN ARE BASED ON UNDERGROUND UTILITY LOCATE MARKINGS AS PROVIDED BY OTHERS, PROVIDED PER PRIVATE LOCATES BY MARK IT OUT LLC. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND LOCATES REPRESENT THE ONLY UTILITIES IN THE AREA. CONTRACTORS ARE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BEGINNING CONSTRUCTION.
2. FIELD WORK WAS CONDUCTED SEPTEMBER 10TH AND 11TH, 2023.
3. BASIS OF BEARINGS / HORIZONTAL DATUM: COORDINATES ARE BASED ON OREGON STATE PLANE NAD83(HARN).
4. VERTICAL DATUM: ELEVATIONS ARE BASED ON WASHINGTON BENCHMARK NO. 66,, LOCATED AT THE NW CORNER OF SW AGUSTA LANE AND SW 170TH AVENUE. ELEVATION = 186.71 FEET (NGVD29).
5. CONTOUR INTERVAL IS 1.00 FOOT.
6. THIS IS NOT A PROPERTY BOUNDARY SURVEY TO BE RECORDED WITH THE COUNTY SURVEYOR. BOUNDARIES MAY BE PRELIMINARY AND SHOULD BE CONFIRMED WITH THE STAMPING SURVEYOR PRIOR TO RELYING ON FOR DETAILED DESIGN OR CONSTRUCTION.
7. TREES WITH DIAMETER OF 6" AND GREATER ARE SHOWN. TREE DIAMETERS WERE MEASURED UTILIZING A DIAMETER TAPE AT BREAST HEIGHT. TREE INFORMATION IS SUBJECT TO CHANGE UPON ARBORIST INSPECTION.

N

SCALE: 1"=20 FEET

20 0 4 10 20

PUBLIC LAND CORNER **DO NOT DISTURB**

REFERENCE MONUMENT **DO NOT DISTURB**

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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 08/14/2024
DRAWN BY: SPS

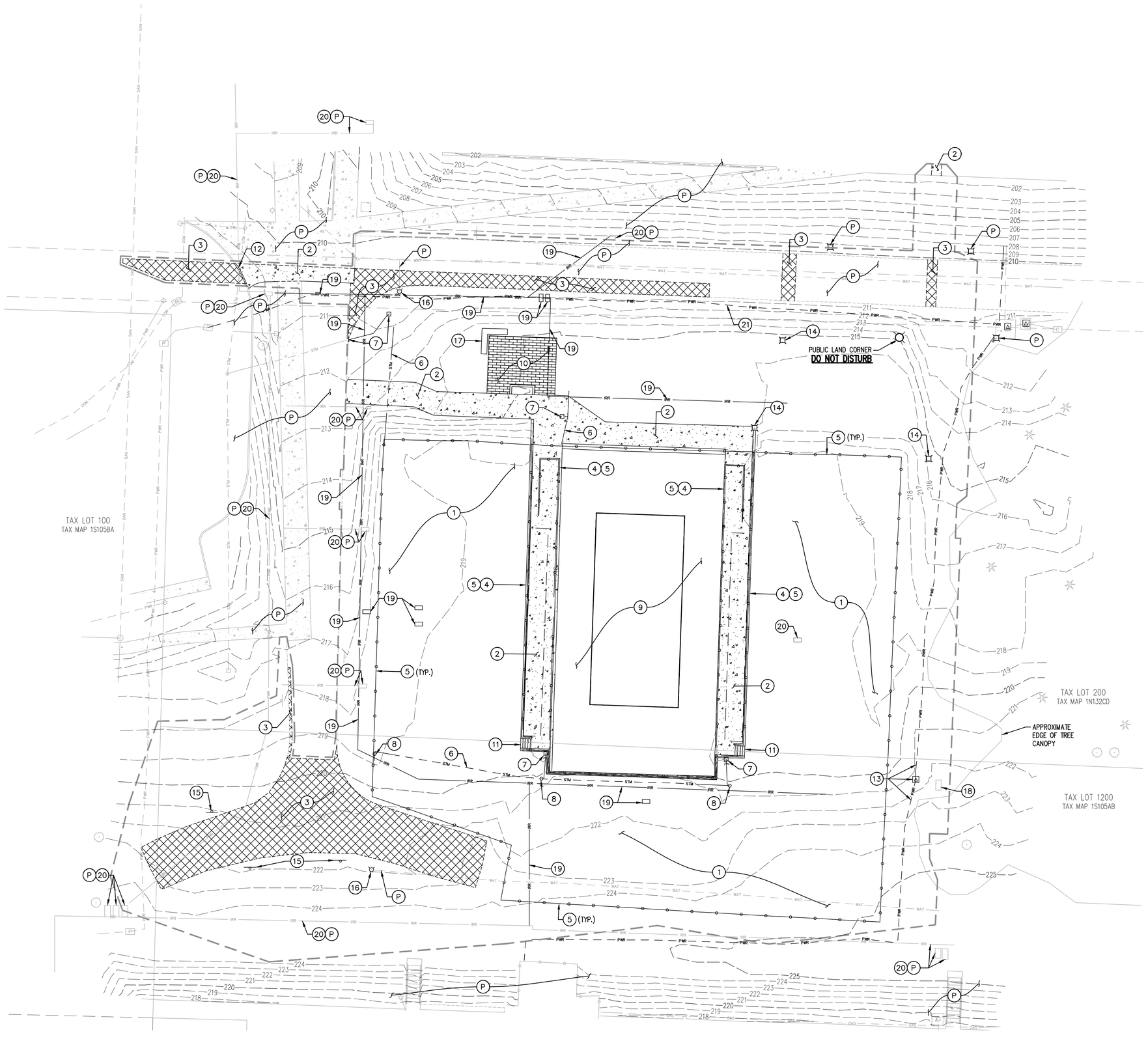
BID SET

REVISIONS:

REGISTERED PROFESSIONAL LAND SURVEYOR
Austin Butz
2026.02.10 08:38-08'00'
OREGON
JULY 9, 2024
MICHAEL T. BUTZ
95516PLS
RENEWS:12/31/27

EXISTING CONDITIONS PLAN

C004



KEYED DEMOLITION NOTES:

1. STRIP AND REMOVE ALL VEGETATION, STUMPS, GARBAGE, ETC.
2. REMOVE EXISTING SIDEWALK. CONTRACTOR TO HAUL OFF-SITE AND DISPOSE.
3. SAWCUT AND REMOVE EXISTING ASPHALT PATH. CONTRACTOR TO HAUL OFF-SITE AND DISPOSE.
4. REMOVE EXISTING RETAINING WALL. CONTRACTOR TO HAUL OFF-SITE AND DISPOSE.
5. REMOVE EXISTING FENCE. CONTRACTOR TO HAUL OFF-SITE AND DISPOSE.
6. REMOVE EXISTING 8" PVC STORM LINE. CONTRACTOR TO HAUL OFF-SITE AND DISPOSE.
7. REMOVE EXISTING CATCH BASIN. CUT, CAP, AND ABANDON EXISTING SERVICE IN PLACE.
8. REMOVE CLEANOUT. CONTRACTOR TO HAUL OFF-SITE AND DISPOSE.
9. REMOVE TENNIS COURT. CONTRACTOR TO HAUL OFF-SITE AND DISPOSE.
10. SALVAGE EXISTING PLAQUE, COORDINATE RELOCATION WITH OWNER. REMOVE BRICK PLAZA, CONTRACTOR TO HAUL OFF-SITE AND DISPOSE.
11. REMOVE STAIRS. CONTRACTOR TO HAUL OFF-SITE AND DISPOSE.
12. REMOVE CURB. CONTRACTOR TO HAUL OFF-SITE AND DISPOSE.
13. RELOCATE EXISTING ELECTRICAL VAULT AND SERVICE. SEE ELECTRICAL PLANS.
14. RELOCATE EXISTING REFERENCE MONUMENT. COORDINATE WITH WASHINGTON COUNTY SURVEYOR.
15. REMOVE EXISTING SIGN AND PRESERVE FOR RELOCATION/REINSTALLATION.
16. REMOVE EXISTING FIRE HYDRANT AND ASSOCIATED VALVES, IF PRESENT, AND SALVAGE FOR RELOCATION/REINSTALLATION. CONTRACTOR TO NOTIFY OWNER'S REPRESENTATIVE AND ENGINEER IF VALVES ARE NOT FOUND.
17. REMOVE POLISHED GRANITE FEATURE WALL AND FLAG POLES. CONTRACTOR TO HAUL OFF-SITE AND DISPOSE.
18. SALVAGE ELECTRICAL PEDESTAL AND RELOCATE PER LANDSCAPE AND ELECTRICAL PLANS. SALVAGE AND RECONNECT CONTROL WIRE CONNECTED TO EXISTING COURTS TO THE SOUTH.
19. APPROXIMATE LOCATION OF EXISTING IRRIGATION MAIN LINE, LATERALS, AND VALVES TO BE DEMOLISHED/REMOVED. SALVAGE VALVES AND RETURN TO OWNER. SEE LANDSCAPE PLANS BY OTHERS.
20. APPROXIMATE LOCATIONS OF EXISTING IRRIGATION MAIN LINE, LATERALS, VALVES, AND CONTROLLER WIRE TO REMAIN. SEE LANDSCAPE PLANS BY OTHERS.
21. RELOCATE EXISTING ELECTRICAL SERVICE. SEE ELECTRICAL PLANS.

(P) CONTRACTOR TO PROTECT EXISTING CONDITIONS THROUGHOUT DEMOLITION AND CONSTRUCTION. ANY DAMAGE TO BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE.

TOTAL DISTURBANCE AREA: ±1.8 ACRES

NOTE:
1. REFER TO C040 FOR THE TREE PRESERVATION AND REMOVAL PLAN FOR ALL WORK WITHIN OR ADJACENT TO TREE CANOPY/ROOT ZONES.
2. REFER TO C050 FOR ALL EROSION AND SEDIMENT CONTROL MEASURES.
3. EXISTING IRRIGATION MAIN LINES, SERVICES, VALVES, CONTROLLERS, ETC. ARE PER RECORDS BY OTHERS AND WERE NOT SURVEYED. SEE LANDSCAPE AND ELECTRICAL PLANS BY OTHERS FOR ADDITIONAL INFORMATION.

N

SCALE: 1"= 20 FEET

20 0 4 10 20

ORIGINAL PAGE SIZE: 22" x 34"

LEGEND

- EXISTING GROUND CONTOUR (1 FT) — 214 —
- EXISTING GROUND CONTOUR (5 FT) — 215 —
- BRICK PLAZA (TO REMOVE)
- CONCRETE (TO REMAIN)
- CONCRETE (TO REMOVE)
- ASPHALT (TO REMOVE)
- SAWCUT
- DISTURBANCE LIMITS

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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02/10/2026
DRAWN BY: MNH

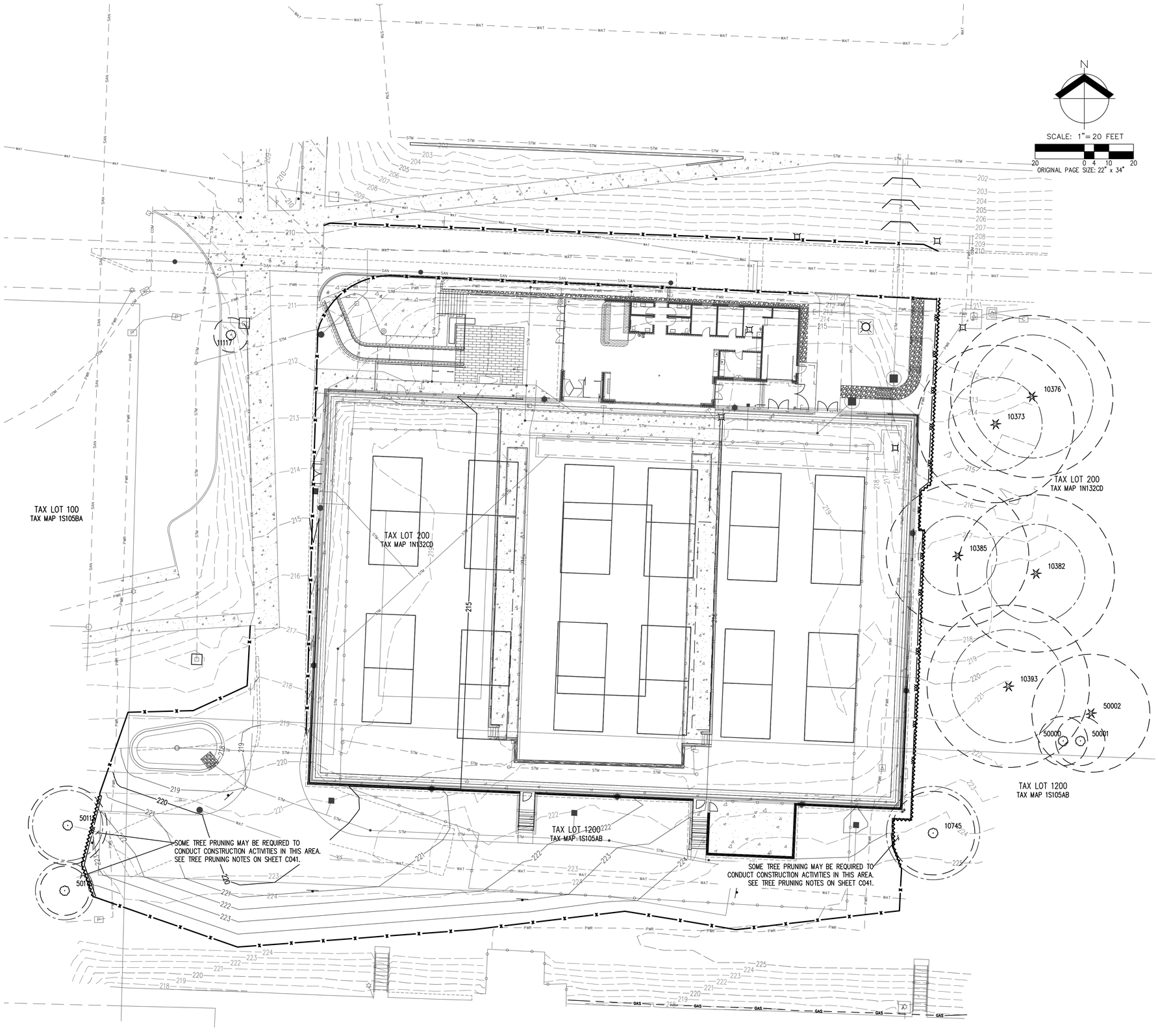
BID SET

REVISIONS:

REGISTERED PROFESSIONAL ENGINEER
97708PE
2026.02.10
Austin Cole 15:08:40-08'00'
OREGON
SEPTEMBER 14, 2021
AUSTIN MORGAN COLE
RENEWS: DECEMBER 31, 2027

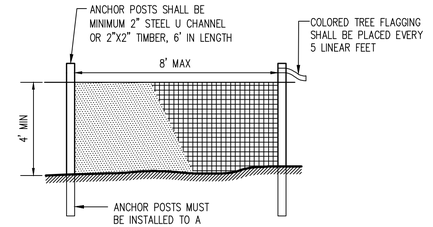
DEMOLITION PLAN

C030



LEGEND

- EXISTING GROUND CONTOUR (1 FT) — 149
- EXISTING GROUND CONTOUR (5 FT) — 150
- FINISHED GRADE CONTOUR (1 FT) — 149
- FINISHED GRADE CONTOUR (5 FT) — 150
- EXISTING CONIFEROUS TREE
- EXISTING DECIDUOUS TREE
- TREE PROTECTION/CONSTRUCTION FENCE (TREE PROTECTION AREA)
- SEDIMENT FENCE — x — x —
- STRAW WATTLE — xxx — xxx
- ASSUMED TREE ROOT ZONE (1-FT RADIUS PER 1-IN OF DBH)
- AVERAGE CROWN RADIUS



NOTES:
1. BLAZE ORANGE PLASTIC MESH FENCE FOR TREE PROTECTION DEVICE OR APPROVED EQUAL.
2. 12 GAUGE WIRE SHALL BE STRUNG BETWEEN EACH POST AND ATTACH TO THE TOP AND MIDPOINT OF EACH POST.
3. AVOID DAMAGE TO TREE ROOT ZONE. DO NOT DAMAGE OR SEVER LARGE ROOTS WHEN INSTALLING POSTS.
4. DEVICE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

TREE PROTECTION FENCE

CERTIFIED ARBORIST ISA®
BENNETT R. KOCSIS
CERTIFICATE NUMBER: PN 8877A
EXPIRATION DATE: 12/31/2025

FWD//
FIELDWORK DESIGN & ARCHITECTURE
1752 SE HAWTHORNE BLVD
PORTLAND, OREGON 97214
503.360.1437

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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02/10/2026
DRAWN BY: MNH

BID SET

REVISIONS:

REGISTERED PROFESSIONAL ENGINEER
97708PE
Austin Cole 2026.02.10 15:08:41-08'00'
OREGON
SEPTEMBER 14, 2021
AUSTIN MORGAN COLE
RENEWS: DECEMBER 31, 2027

TREE PRESERVATION & REMOVAL PLAN

C040

TREE PRESERVATION NOTES:

PLACING MATERIALS NEAR TREES:

1. NO PERSON MAY CONDUCT ANY ACTIVITY WITHIN THE TREE PROTECTION AREA OF ANY TREE DESIGNATED TO REMAIN, INCLUDING, BUT NOT LIMITED TO, PARKING EQUIPMENT, PLACING SOLVENTS, STORING BUILDING MATERIAL AND SOIL DEPOSITS, DUMPING CONCRETE WASHOUT.

ATTACHMENTS TO TREES:

1. DURING CONSTRUCTION, NO PERSON SHALL ATTACH ANY OBJECT TO ANY TREE DESIGNATED FOR PROTECTION.

GRADING NEAR TREES:

1. THE GRADE SHALL NOT BE ELEVATED OR REDUCED WITHIN THE TREE PROTECTION AREA OF TREES TO BE PRESERVED WITHOUT THE PROJECT ARBORIST'S AUTHORIZATION.
2. IF THE GRADE ADJACENT TO A PRESERVED TREE IS RAISED SUCH THAT IT COULD SLOUGH OR ERODE INTO THE TREE PROTECTION AREA, IT SHALL BE PERMANENTLY STABILIZED TO PREVENT SUFFOCATION OF THE ROOTS.
3. THE APPLICANT SHALL NOT INSTALL AN IMPERVIOUS SURFACE WITHIN THE TREE PROTECTION AREA WITHOUT THE AUTHORIZATION OF THE PROJECT ARBORIST.
4. TO THE GREATEST EXTENT PRACTICAL, UTILITY TRENCHES SHALL BE LOCATED OUTSIDE OF THE TREE PROTECTION AREA. THE PROJECT ARBORIST MAY REQUIRE THAT UTILITIES BE TUNNELED UNDER THE ROOTS OF TREES TO BE RETAINED IF THE PROJECT ARBORIST DETERMINES THAT TRENCHING WOULD SIGNIFICANTLY REDUCE THE CHANCES OF THE TREE'S SURVIVAL.
5. TREES AND OTHER VEGETATION TO BE RETAINED SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. CLEARING OPERATIONS SHALL BE CONDUCTED SO AS TO EXPOSE THE SMALLEST PRACTICAL AREA OF SOIL FOR THE LEAST POSSIBLE AMOUNT OF TIME. SHRUBS, GROUND COVER, AND STUMPS SHALL BE MAINTAINED TO CONTROL EROSION, WHERE FEASIBLE. WHERE NOT FEASIBLE, APPROPRIATE EROSION CONTROL PRACTICES SHALL BE IMPLEMENTED.

ADDITIONAL REQUIREMENTS:

1. THE PROJECT ARBORIST MAY REQUIRE ADDITIONAL TREE PROTECTION MEASURES WHICH ARE CONSISTENT WITH ACCEPTED URBAN FORESTRY PRACTICES.
2. AT THE COMPLETION OF CONSTRUCTION, ALL TREES SHOULD ONCE AGAIN BE REVIEWED. LAND CLEARING AND REMOVAL OF ADJACENT TREES CAN EXPOSE PREVIOUSLY UNSEEN DEFECTS AND OTHERWISE HEALTHY TREES CAN BE DAMAGED DURING CONSTRUCTION. AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHOULD COORDINATE WITH THE PROJECT ARBORIST FOR A FINAL INSPECTION.

EXCAVATION WITHIN ASSUMED TREE ROOT ZONES:

1. EXCAVATION IN THE TOP 24 INCHES OF SOIL IN THE ASSUMED TREE ROOT ZONE SHOULD BEGIN AT THE EXCAVATION LINE THAT IS CLOSEST TO THE TREE.
2. THE EXCAVATION SHOULD BE DONE BY HAND/SHOVEL OR WITH AN EXCAVATOR AND A PERSON WITH A SHOVEL, PRUNING SHEARS, AND A PRUNING SAW.
3. IF DONE BY HAND, ALL ROOTS 1–INCH DIAMETER OR LARGER SHOULD BE PRUNED AT THE EXCAVATION LINE.
4. IF DONE WITH AN EXCAVATOR (MOST LIKELY SCENARIO), THEN THE OPERATOR SHALL START THE CUT AT THE EXCAVATION LINE AND CAREFULLY "FEEL" FOR ROOTS/RESISTANCE. WHEN THERE IS RESISTANCE, THE PERSON WITH THE SHOVEL HAND DIGS AROUND THE ROOTS AND PRUNES THE ROOTS 1–INCH DIAMETER OR LARGER.
5. THE EXCAVATOR IS TO REMAIN OFF OF THE TREE ROOTS TO BE PRESERVED AT ALL TIMES.
6. ALL ROOTS SHALL BE CUT CLEANLY WITH PRUNING SHEARS OR A PRUNING SAW.
7. THE PROJECT ARBORIST MUST BE ON SITE DURING ANY WORK WITHIN THE TREE PROTECTION AREA.

PRUNING/TREE REMOVAL NOTES:

1. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE CREW OF PERSONNEL, EQUIPMENT, AND MATERIALS TO SAFELY AND EFFICIENTLY COMPLETE THE ASSIGNED WORK. EACH SUCH CREW SHALL INCLUDE AN INDIVIDUAL WHO SHALL BE DESIGNATED AS THE CREW SUPERVISOR, BE RESPONSIBLE FOR THE CREW'S ACTIVITIES, RECEIVE INSTRUCTION FROM THE OWNER OR THE OWNER'S REPRESENTATIVE, AND DIRECT THE CREW TO ACCOMPLISH SUCH WORK.
2. THE CONTRACTOR SHOULD PRUNE ANY DEAD LIMBS FROM ALL TREES TO BE PRESERVED ON–SITE.
3. WHENEVER A TREE, WHICH IS NOT SCHEDULED TO BE REMOVED, MUST BE TRIMMED OR PRUNED, THE CONTRACTOR SHALL ENSURE THAT SUCH TRIMMING AND PRUNING IS CARRIED OUT UNDER THE DIRECT SUPERVISION OF A CERTIFIED ARBORIST. ALL PRUNING AND TRIMMING SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF ANSI A300 "STANDARD PRACTICES FOR TREE, SHRUB AND OTHER WOODY PLANT MAINTENANCE".
4. UNLESS AS OTHERWISE DIRECTED BY THE OWNER, ROOT BALLS FROM TREES BEING REMOVED SHALL BE COMPLETELY REMOVED UNLESS THE ROOT REMOVAL CROSSES ONTO ADJACENT PROPERTIES OR WOULD COMPROMISE TREES BEING PRESERVED. IN THOSE CASES, THE STUMPS SHALL BE GROUND AS NECESSARY SO AS NOT TO CAUSE DAMAGE TO THE ROOT ZONES OF ADJACENT TREES TO BE PRESERVED ON THE SUBJECT PARCEL OR ABUTTING PARCELS. STUMPS NEAR PROPERTY LINES SHALL ALSO BE GROUND AS NECESSARY SO AS NOT TO CAUSE DISTURBANCE TO ADJACENT PARCELS.
5. THE CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE LATEST GOVERNMENTAL SAFETY REGULATIONS. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ANSI Z133.1 "PRUNING, TRIMMING, REPAIRING, MAINTAINING AND REMOVING TREES AND CUTTING BRUSH–SAFETY REQUIREMENTS" WITH SPECIAL EMPHASIS GIVEN TO THE REQUIREMENT THAT ONLY QUALIFIED LINE–CLEARANCE TREE TRIMMERS BE ASSIGNED TO WORK WHERE A POTENTIAL ELECTRICAL HAZARD EXISTS.
6. THE CONTRACTOR SHALL MAKE ALL THE NECESSARY ARRANGEMENTS WITH ANY UTILITY THAT MUST BE PROTECTED OR RELOCATED IN ORDER TO ACCOMPLISH THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROTECTION OF THE OPERATING CONDITION OF ALL ACTIVE UTILITIES WITHIN THE AREA OF CONSTRUCTION AND SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO EXISTING UTILITIES.
7. ANY MATERIAL RESULTING FROM THE TRIMMING OR REMOVAL OF ANY TREES SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF.
8. HAZARDOUS TREE REPORTING: ANY PERSON ENGAGED IN TRIMMING OR PRUNING WHO BECOMES AWARE OF A TREE OF DOUBTFUL STRENGTH, THAT COULD BE DANGEROUS TO PERSONS AND PROPERTY, SHALL REPORT SUCH TREE(S) TO THE OWNER OR THE OWNER'S REPRESENTATIVE. SUCH TREES SHALL INCLUDE THOSE THAT ARE OVER MATURE, DISEASED, OR SHOWING SIGNS OF DECAY OR OTHER STRUCTURAL WEAKNESS.
9. TREES DETERMINED TO BE A HAZARD BY THE PROJECT ARBORIST SHALL BE REMOVED AS SOON AS POSSIBLE.
10. DAMAGES: ANY DAMAGE CAUSED BY THE CONTRACTOR, INCLUDING, BUT NOT LIMITED TO, BROKEN SIDEWALK, CURB, RUTTED LAWN, BROKEN WATER SHUT–OFFS, WIRE DAMAGE, BUILDING DAMAGE, STREET DAMAGE, ETC., WILL BE REPAIRED OR REPLACED IN A TIMELY MANNER, TO THE OWNER'S SATISFACTION, AND ALL COSTS PAID BY THE CONTRACTOR.
11. ANY BRUSH CLEARING REQUIRED WITHIN THE TREE PROTECTION AREA SHALL BE ACCOMPLISHED WITH HAND OPERATED EQUIPMENT.
12. TREES TO BE REMOVED SHALL BE FELLED SO AS TO FALL AWAY FROM ASSUMED TREE ROOT ZONES AND TO AVOID PULLING AND BREAKING OF ROOTS TO REMAIN. DIRECTIONAL FELLING OF TREES SHALL BE USED TO AVOID DAMAGE TO TREES DESIGNATED FOR RETENTION.
13. ALL DOWNED BRUSH AND TREES SHALL BE REMOVED FROM THE TREE PROTECTION AREA EITHER BY HAND OR WITH EQUIPMENT STAGED OUTSIDE OF THE TREE PROTECTION AREA. EXTRACTION SHALL OCCUR BY LIFTING THE MATERIAL OUT, NOT BY SKIDDING IT ACROSS THE GROUND.
14. IF TEMPORARY HAUL OR ACCESS ROADS MUST PASS OVER TREE PROTECTION AREA, A ROADBED OF STEEL PLATES, OR 6 INCHES OF MULCH, OR 6 INCHES OF GRAVEL SHALL BE PLACED TO PREVENT SOIL COMPACTION IF DETERMINED NECESSARY BY THE PROJECT ARBORIST. THE ROADBED MATERIAL SHALL BE REPLENISHED AS NECESSARY TO MAINTAIN A 6–INCH DEPTH.
15. PRUNING: THE CONTRACTOR SHALL CONSULT WITH THE PROJECT ARBORIST PRIOR TO ANY PRUNING ACTIVITIES NECESSARY FOR CONSTRUCTION ACTIVITIES. ALL PRUNING ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH ANSI A300 PRUNING STANDARDS. PRUNING SHALL BE COMPLETED PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
16. CUT BRANCHES AND ROOTS WITH SHARP PRUNING INSTRUMENTS THAT DO NOT CHOP OR TEAR.
17. FENCING SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION ACTIVITIES, INCLUDING, BUT NOT LIMITED TO CLEARING, GRADING, EXCAVATION, OR DEMOLITION WORK, AND SHALL BE REMOVED ONLY AFTER THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES, INCLUDING LANDSCAPING AND IRRIGATION INSTALLATION.
18. TREE PROTECTION FENCING SHALL BE FLUSH WITH THE INITIAL UNDISTURBED GRADE.

Detailed Tree Inventory for THPRD Pickleball Facility and Outdoor Court Expansion

AKS Job No. [3291-01] - Evaluation Date: 01/18/2024 - Evaluated by: BRK

Tree #	DBH (in.)	Avg. Crown Radius (ft)	Tree Species Common Name (Scientific name)	Comments	Health Rating*	Structure Rating**	Remove/ Preserve
10373	32	19	Douglas-fir (Pseudotsuga menziesii)		1	1	Preserve
10376	33	25	Douglas-fir (Pseudotsuga menziesii)		1	1	Preserve
10382	32	20	Douglas-fir (Pseudotsuga menziesii)		1	1	Preserve
10385	29	16	Douglas-fir (Pseudotsuga menziesii)	Some abnormal dead branches; Crick in bole @~25'	2	1	Preserve
10393	33	23	Douglas-fir (Pseudotsuga menziesii)	Some epicormic sprouting; Some abnormal dead branches	2	1	Preserve
10745	17	19	Red Maple (Acer rubrum)	Codominant top with included bark	1	2	Preserve
11117	7	14	Cherry (Prunus spp.)	Exposed roots all around	1	1	Preserve
50000	10	9	Red Alder (Alnus rubra)	Abnormal dead branches; Sluffing bark; In decline	3	3	Preserve
50001	10	9	Red Alder (Alnus rubra)	Abnormal dead branches; Sluffing bark; In decline	2	1	Preserve
50002	24	20	Douglas-fir (Pseudotsuga menziesii)		1	1	Preserve
50115	16	-	Deciduous	Not evaluated by an arborist; Canopy determined via aerial imagery	-	-	Preserve
50116	10	-	Deciduous	Not evaluated by an arborist; Canopy determined via aerial imagery	-	-	Preserve

Total # of Existing Trees Inventoried = 12

Total # of Existing Onsite Trees = 12

Total # of Existing Onsite Trees to be Preserved = 12

Total # of Existing Onsite Trees to be Removed = 0

Total # of Existing Offsite Trees = 0

***Health Rating:**

1 = Good Health - A tree that exhibits typical foliage, bark, and root characteristics, for its respective species, shows no signs of infection or infestation, and has a high level of vigor and vitality.

2 = Fair Health - A tree that exhibits some abnormal health characteristics and/or shows some signs of infection or infestation, but may be reversed or abated with supplemental treatment.

3 = Poor Health - A tree that is in significant decline, to the extent that supplemental treatment would not likely result in reversing or abating its decline.

****Structure Rating:**

1 = Good Structure - A tree that exhibits typical physical form characteristics, for its respective species, shows no signs of structural defects of the canopy, trunk, and/or root system.

2 = Fair Structure - A tree that exhibits some abnormal physical form characteristics and/or some signs of structural defects, which reduce the structural integrity of the tree, but are not indicative of imminent physical failure, and may be corrected using arboricultural abatement methods.

3 = Poor Structure - A tree that exhibits extensively abnormal physical form characteristics and/or significant structural defects that substantially reduces the structural viability of the tree, cannot feasibly be abated, and are indicative of imminent physical failure.

Arborist Disclosure Statement:

Arborists are tree specialists who use their education, knowledge, training, and experience to examine trees, recommend measures to enhance the health of trees, and attempt to reduce the risk of living near trees. The Client and Jurisdiction may choose to accept or disregard the recommendations of the arborist, or seek additional advice. Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. Trees are living organisms that fail in ways we do not fully understand. Conditions are often hidden within trees and below ground. Arborists cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments, like medicine, cannot be guaranteed. Trees can be managed, but they cannot be controlled. To live near trees is to accept some degree of risk. The only way to eliminate all risk associated with trees is to eliminate all trees. Neither this author nor AKS Engineering & Forestry, LLC have assumed any responsibility for liability associated with the trees on or adjacent to this site.

At the completion of construction, all trees should once again be reviewed. Land clearing and removal of adjacent trees can expose previously unseen defects and otherwise healthy trees can be damaged during construction.

CERTIFIED ARBORIST ISA

BENNETT R. KOCSIS
CERTIFICATE NUMBER: PN 8877A
EXPIRATION DATE: 12/31/2025

FWD//
FIELDWORK DESIGN & ARCHITECTURE
1752 SE HAWTHORNE BLVD
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503.360.1437

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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02/10/2026
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Austin Cole 2026.02.10 15:08:43-08'00'
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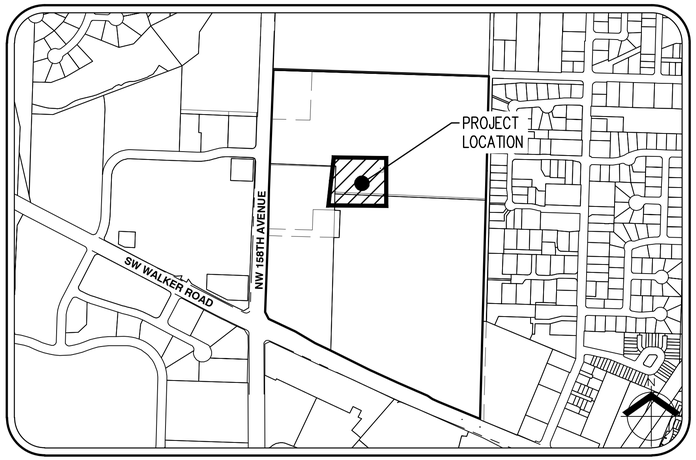
SEPTEMBER 14, 2021
AUSTIN MORGAN COLE
RENEWS: DECEMBER 31, 2027

DETAILED TREE INVENTORY NOTES

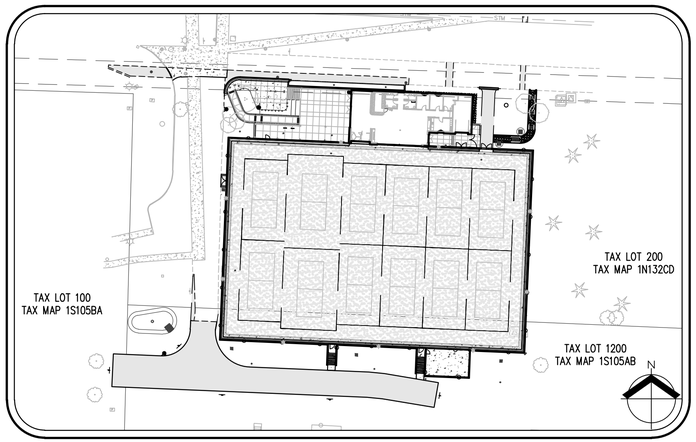
C041

PICKLEBALL FACILITY AND OUTDOOR COURT EXPANSION

1200-CN EROSION AND SEDIMENT CONTROL PLAN



VICINITY MAP
N.T.S.



SITE MAP
1"=60'

SHEET INDEX

C050 EROSION & SEDIMENT CONTROL COVER SHEET
C051 CLEARING & DEMOLITION ESCP
C052 MASS GRADING & STABILIZATION PLAN ESCP
C053 FINAL LANDSCAPE & STABILIZATION ESCP
C054 EROSION & SEDIMENT CONTROL DETAILS
C055 EROSION & SEDIMENT CONTROL DETAILS

RATIONALE STATEMENT

A COMPREHENSIVE LIST OF AVAILABLE BEST MANAGEMENT PRACTICES (BMP) OPTIONS BASED ON DEQ's GUIDANCE MANUAL HAS BEEN REVIEWED TO COMPLETE THIS EROSION AND SEDIMENT CONTROL PLAN. SOME OF THE ABOVE LISTED BMP's WERE NOT CHOSEN BECAUSE THEY WERE DETERMINED TO NOT EFFECTIVELY MANAGE EROSION PREVENTION AND SEDIMENT CONTROL FOR THIS PROJECT BASED ON SPECIFIC SITE CONDITIONS, INCLUDING SOIL CONDITIONS TOPOGRAPHIC CONSTRAINTS, ACCESSIBILITY TO THE SITE, AND OTHER RELATED CONDITIONS, AS THE PROJECT PROGRESSES AND THERE IS A NEED TO REVISE THE ESC PLAN, AN ACTION PLAN WILL BE SUBMITTED.

INITIALS

ATTENTION EXCAVATORS:

OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES FROM THE CENTER BY CALLING 503-232-1987. IF YOU HAVE ANY QUESTIONS ABOUT THE RULES, YOU MAY CONTACT THE CENTER. YOU MUST NOTIFY THE CENTER AT LEAST TWO BUSINESS DAYS BUT NOT MORE THAN TEN BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION. CALL 503-246-6699.

811 Know what's below. Call before you dig.

OWNER/APPLICANT

TUALATIN HILLS PARK & RECREATION DISTRICT
CONTACT: TIM BONNIN
6220 SW 112TH AVENUE, STE 100
BEAVERTON, OR 97006
PHONE: 503.614.4003

CIVIL ENGINEERING/ SURVEYING

AKS ENGINEERING & FORESTRY, LLC.
CONTACT: AUSTIN COLE, PE
126965 SW HERMAN ROAD, SUITE 100
TUALATIN, OR, 97062
PH: 503.563.6151
EMAIL: COLEA@AKS-ENG.COM

GEOTECHNICAL FIRM

CENTRAL GEOTECHNICAL SERVICES
CONTACT: ZANE ROGERS, PE
7662 SW MOHAWK ST
TUALATIN, OR 97062
PH: 503.616.9419

LANDSCAPE ARCHITECT

RANGE
CONTACT: CAMI CULBERTSON
2222 NE OREGON ST
PORTLAND, OR, 97232
PH: 971.268.8510
EMAIL: CAMI@RANGE-STUDIO.COM

CONTRACTOR

TBD

PROJECT LOCATION

HOWARD M. TERPENNING RECREATION COMPLEX
15707 SW WALKER ROAD
BEAVERTON, OR 97006
LAT: 45°31'10" N LONG: 122°50'13" W

PROPERTY DESCRIPTION

WASHINGTON COUNTY TAX MAPS 1S105BA, 1N132CD, AND 1S105AB
TAX LOTS 100, 200, AND 1200
CITY OF BEAVERTON, OREGON

NARRATIVE DESCRIPTIONS

EXISTING SITE CONDITIONS

* EXISTING OUTDOOR TENNIS COURT AND LANDSCAPING

DEVELOPED CONDITIONS

* NEW PICKLEBALL PAVILION WITH AN AIR-SUPPORTED FABRIC STRUCTURE, ADA PATHWAY AND PLAZA

NATURE OF CONSTRUCTION ACTIVITY AND TIMETABLE FOR MAJOR ACTIVITIES

* CLEARING (DATES TBD)
* MASS GRADING [EXCAVATION AND FILL] (DATES TBD)
* INSTALLATION OF UTILITIES (DATES TBD)
* STREET CONSTRUCTION (DATES TBD)
* VERTICAL CONSTRUCTION (DATES TBD)
* FINAL LANDSCAPE & SITE STABILIZATION (DATES TBD)
* END OF CONSTRUCTION ACTIVITIES/REMOVAL (DATES TBD)
* PLANNED STOP DATES (NONE)

- TOTAL SITE AREA = 2,806,720 SF = ±64.4 ACRES
- TOTAL DISTURBED AREA = 80,080 SF = ±1.8 ACRES

SITE SOIL CLASSIFICATION:

ML – INORGANIC SILTS, SILT WITH SLIGHT PLASTICITY

RECEIVING WATER BODIES:

WILLOW CREEK

PERMITTEE'S SITE INSPECTOR:

COMPANY/AGENCY: AKS ENGINEERING AND FORESTRY, LLC
PRIMARY INSPECTOR: CODY TERNOSKY, CESCL #CWTA-110426756
503.563.6151 TERNOSKYC@AKS-ENG.COM

SUPPLEMENTAL INSPECTOR: MAX KRAHNKE, CESCL CWTA-154865873
503.563.6151 KRAHNKEM@AKS-ENG.COM

STANDARD EROSION AND SEDIMENT CONTROL PLAN DRAWING NOTES:

1. COMPLY WITH ALL APPLICABLE PROVISIONS IN CHAPTER 6 OF THE MOST CURRENT DESIGN AND CONSTRUCTION STANDARDS.
2. VISUAL MONITORING INSPECTION REPORTS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-CN PERMIT REQUIREMENTS. (SECTION 8)
3. INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-CN PERMIT REQUIREMENTS. (SECTION 8.5)
4. RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. (SECTION 9.2)
5. THE PERMIT REGISTRANT MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT (SECTION 4.0).
6. THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS (SECTION 4.0).
7. IDENTIFY, MARK, AND PROTECT (BY CONSTRUCTION FENCING OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS. (SECTION 4.2)
8. MAINTAIN AND DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50-FEET OF WATERS OF THE STATE. (SECTION 4.2)
9. CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, I.E., CONCRETE WASH-OUT, WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPOUNDS (SECTION 7.0)
10. PROVIDE PLANS FOR SEDIMENTATION BASINS THAT HAVE BEEN DESIGNED PER SECTION 4.4 AND STAMPED BY AN OREGON PROFESSIONAL ENGINEER.
11. IF ENGINEERED SOILS ARE USED ON SITE, A SEDIMENTATION BASIN/IMPOUNDMENT MUST BE INSTALLED PER SECTION 4.4.
12. THE OPERATOR MUST COMPLY WITH THE REQUIREMENTS IN SECTION 4.3 TO PREVENT THE DISCHARGE OF POLLUTANTS IN GROUNDWATER OR ACCUMULATED STORMWATER THAT IS REMOVED FROM EXCAVATIONS, TRENCHES, FOUNDATIONS, VAULTS, OR OTHER SIMILAR POINTS OF ACCUMULATION.
13. IF AN ACTIVE TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN ENVIRONMENTAL MANAGEMENT PLAN APPROVAL FROM DEQ BEFORE OPERATING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. (SECTION 4.4)
14. WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS. ANY IN-STREAM CLEAN-UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DEPARTMENT OF STATE LANDS REQUIRED TIMEFRAME. (SECTION 8)
15. DOCUMENT ANY PORTION(S) OF THE SITE WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS. (SECTION 8.3)
16. PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (SECTION 8.3)

BMP MATRIX FOR CONSTRUCTION PHASES

REFER TO DEQ GUIDANCE MANUAL FOR A COMPREHENSIVE LIST OF AVAILABLE BMP'S
CONTRACTOR TO NOTIFY LISTED ENGINEER AND INSPECTOR PRIOR TO INSTALLING ESC MEASURES

	CLEARING	MASS GRADING	UTILITY INSTALLATION	STREET & SITE CONSTRUCTION	VERTICAL CONSTRUCTION	FINAL VEGETATION & STABILIZATION	WET WEATHER (10/01-05/31)
EROSION PREVENTION							
PRESERVE NATURAL VEGETATION	**X	X	X	X	X	X	X
GROUND COVER	X	X	X	X	X	X	X
HYDRAULIC APPLICATIONS							
PLASTIC SHEETING	X	X	X	X	X		X
MATTING		X	X	X	X		X
STRAW/MULCH COVER		X	X	X	X	X	X
ROCK COVER			X	X	X	X	X
DUST CONTROL	X	X	X	X	X		
TEMPORARY/PERMANENT SEEDING		X	X	X	X	X	X
BUFFER ZONE							
OTHER:							
SEDIMENT CONTROL							
SEDIMENT FENCE (PERIMETER)	X	X	X	X	X		X
SEDIMENT FENCE (INTERIOR)			X	X	X		X
STRAW WATTLES		X	X	X	X		X
FILTER BERM							
INLET PROTECTION		X	X	X	X	X	X
DEWATERING			***X				***X
SEDIMENT TRAP			***X				***X
NATURAL BUFFER ENCROACHMENT							
COMPOST SOCK/ BERM							
RUN OFF CONTROL							
CONSTRUCTION ENTRANCE	**X	X	X	X	X		X
PIPE SLOPE DRAIN							
OUTLET PROTECTION			X	X	X	X	X
SURFACE ROUGHENING		X	X	X	X		X
CHECK DAMS							
OTHER:							
POLLUTION PREVENTION							
PROPER SIGNAGE	X	X	X	X	X		X
HAZARDOUS WASTE MANAGEMENT	X	X	X	X	X		X
SPILL KIT ON-SITE	X	X	X	X	X		X
CONCRETE WASHOUT AREA			X	X	X		X
OTHER:							

* SIGNIFIES ADDITIONAL BMP'S REQUIRED FOR WORK WITHIN 50' OF WATER OF THE STATE

** SIGNIFIES BMP THAT WILL BE INSTALLED PRIOR TO ANY GROUND DISTURBING ACTIVITY.

*** NONE ANTICIPATED, DEPENDED ON CONTRACTOR MEANS AND METHODS FOR UTILITY INSTALLATION; PLAN TO BE PROVIDED BY CONTRACTOR

LOCAL AGENCY-SPECIFIC EROSION CONTROL NOTES:

1. HOLD A PRE-CONSTRUCTION MEETING OF PROJECT CONSTRUCTION PERSONNEL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.
2. IF VEGETATIVE SEED MIXES ARE SPECIFIED, SEEDING MUST TAKE PLACE NO LATER THAN SEPTEMBER 1; THE TYPE AND PERCENTAGES OF SEED IN THE MIX MUST BE IDENTIFIED ON THE PLANS..
3. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE DISCHARGED OVER AN UNDISTURBED, VEGETATED AREA, AND THROUGH A SEDIMENT CONTROL BMP (I.E. FILTER BAG).
4. ALL EXPOSED SOILS MUST BE COVERED DURING THE WET WEATHER PERIOD, OCTOBER 1 – MAY 31.
5. THE PERMITTEE IS REQUIRED TO MEET ALL THE CONDITIONS OF THE 1200-CN PERMIT. THIS ESCP AND GENERAL CONDITIONS HAVE BEEN DEVELOPED TO FACILITATE COMPLIANCE WITH THE 1200-CN PERMIT REQUIREMENTS. IN CASES OF DISCREPANCIES OR OMISSIONS, THE 1200-CN PERMIT REQUIREMENTS SUPERCEDE REQUIREMENTS OF THIS PLAN.
6. AKS ENGINEERING AND FORESTRY, LLC SHALL BE RETAINED TO PERFORM EROSION CONTROL INSPECTION SERVICES OR THE APPLICANT MUST TRANSFER THE 1200-CN PERMIT INSPECTION DESIGNATION WITH OREGON DEQ PRIOR TO BEGINNING CONSTRUCTION.

INSPECTION FREQUENCY:

SITE CONDITION	MINIMUM FREQUENCY
1. ACTIVE PERIOD	ON INITIAL DATE THAT LAND DISTURBANCE ACTIVITIES COMMENCE WITHIN 24 HOURS OF ANY STORM EVENT, INCLUDING RUNOFF FROM SNOW MELT, THAT RESULTS IN DISCHARGE FROM THE SITE. AT LEAST ONCE EVERY FOURTEEN (14) DAYS, REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURRING.
2. INACTIVE PERIODS GREATER THAN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS.	THE INSPECTOR MAY REDUCE THE FREQUENCY OF INSPECTIONS IN ANY AREA OF THE SITE WHERE THE STABILIZATION STEPS IN SECTION 2.2.20 HAVE BEEN COMPLETED TO TWICE PER MONTH FOR THE FIRST MONTH, NO LESS THAN 14 CALENDAR DAYS APART, THEN ONCE PER MONTH.
3. PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER.	IF SAFE, ACCESSIBLE AND PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT DISCHARGE POINT OR DOWNSTREAM LOCATION OF THE RECEIVING WATER BODY.
4. PERIODS DURING WHICH CONSTRUCTION ACTIVITIES ARE SUSPENDED AND RUNOFF IS UNLIKELY DUE TO FROZEN CONDITIONS.	VISUAL MONITORING INSPECTIONS MAY BE TEMPORARILY SUSPENDED. IMMEDIATELY RESUME MONITORING UPON THAWING, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.
5. PERIODS DURING WHICH CONSTRUCTION ACTIVITIES ARE CONDUCTED AND RUNOFF IS UNLIKELY DUE TO FROZEN CONDITIONS.	VISUAL MONITORING INSPECTIONS MAY BE REDUCED TO ONCE A MONTH. IMMEDIATELY RESUME MONITORING UPON THAWING, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES LIKELY.

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DRAWN BY: MNH

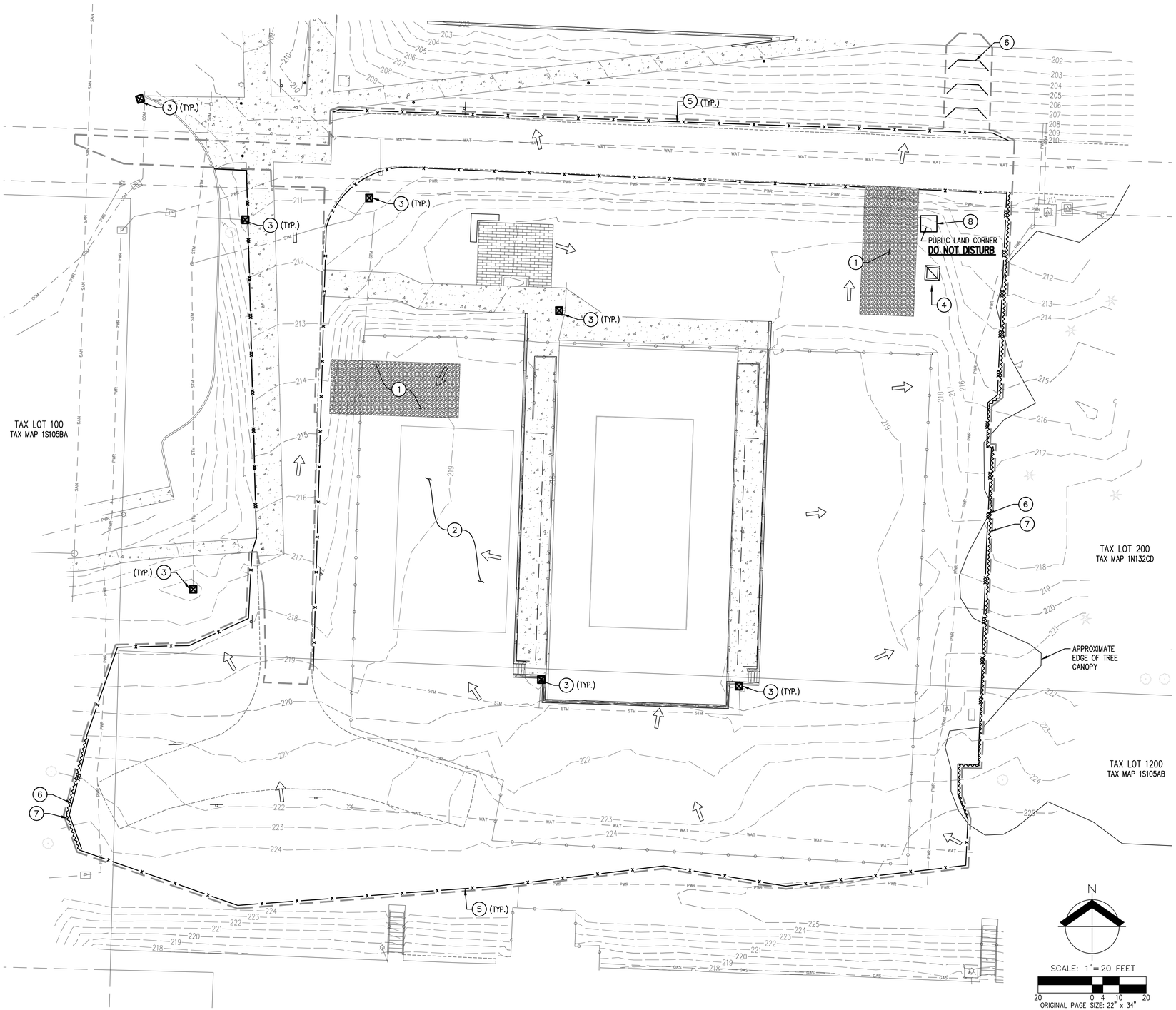
BID SET

REVISIONS:

REGISTERED PROFESSIONAL ENGINEER
97708PE
Austin Cole 2026.02.10 15:08:44-08'00'
OREGON
SEPTEMBER 14, 2021
AUSTIN MORGAN COLE
RENEWS: DECEMBER 31, 2027

EROSION & SEDIMENT CONTROL COVER SHEET

C050



PRE-CONSTRUCTION, CLEARING, AND DEMOLITION NOTES:

1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT FENCE, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
2. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, OR OTHER SUITABLE MATERIAL, STRAW WATTLES, OR OTHER APPROVED MATERIALS.
3. SENSITIVE RESOURCES INCLUDING, BUT NOT LIMITED TO, TREES, WETLANDS, AND RIPARIAN PROTECTION AREAS SHALL BE CLEARLY DELINEATED WITH ORANGE CONSTRUCTION FENCING, CHAIN LINK FENCING, OR SEDIMENT FENCE IN A MANNER THAT IS CLEARLY VISIBLE TO ANYONE IN THE AREA. NO ACTIVITIES ARE PERMITTED TO OCCUR BEYOND THE CONSTRUCTION BARRIER. REFER TO C040 – TREE PRESERVATION & REMOVAL PLAN FOR ALL WORK WITHIN OR ADJACENT TO TREE CANOPY/ROOT ZONES.
4. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, STREET SWEEPING, AND VACUUMING, MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
5. RUN-ON AND RUN-OFF CONTROLS SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING.
6. STRAW WATTLES MAY BE USED AS A SUBSTITUTE FOR INTERIOR SEDIMENT FENCE.
7. DRAIN TILES MAY BE LOCATED ON THIS SITE. IF DRAIN TILES ARE ENCOUNTERED DURING CONSTRUCTION, CONTRACTOR SHALL CONTACT PROJECT ENGINEER TO DEVELOP A PLAN TO ADDRESS.
8. WORK ON-SITE SHALL NOT BEGIN UNTIL THE CITY HAS INSPECTED AND APPROVED IN THE FIELD ALL THE EROSION CONTROL MEASURES. CONTRACTOR SHALL COORDINATE AND SCHEDULE THE EROSION CONTROL INSPECTION PRIOR TO START OF WORK.
9. CONTRACTOR SHALL PROVIDE SPILL PREVENTION PLAN AND PROCEDURES AS REQUIRED FOR THE 1200-CN PERMIT PRIOR TO THE START OF CONSTRUCTION.
10. CONTRACTOR SHALL PROVIDE THE EC INSPECTOR A LIST OF ALL SUBCONTRACTORS THAT WILL ENGAGE IN CONSTRUCTION ACTIVITIES ONSITE AND IDENTIFY PERSONNEL RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF EC MEASURES ASSOCIATED WITH EACH LOT'S CONSTRUCTION.
11. WET WEATHER CONSTRUCTION (OCT. 1 – MAY 31) IS ANTICIPATED FOR THIS PROJECT. ADDITIONAL WET WEATHER EC MEASURES SHALL CONSIST OF CONTRACTOR ESTABLISHING PERMANENT VEGETATIVE COVER OR COVERING/PROTECTING EXPOSED SOILS (INCLUDING TRENCH SPOIL STOCKPILES) WITH STRAW MULCH, PLASTIC SHEETING, OR EROSION CONTROL BLANKETS. ALL BARE/EXPOSED SOILS SHALL BE COVERED/PROTECTED AT THE END OF EACH DAY FOR ACTIVE CONSTRUCTION SITES DURING THE WET WEATHER PERIOD.
12. PROTECT ALL EXISTING IMPROVEMENTS OUTSIDE OF LIMITS OF DISTURBED AREA SHOWN. ANY DAMAGE SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
13. REFER TO SHEET C054 FOR EROSION AND SEDIMENT CONTROL DETAILS.

TOTAL DISTURBANCE AREA: ±1.8 ACRES

NOTES:

THESE EROSION AND SEDIMENT CONTROL PLANS ASSUME "DRY WEATHER" CONSTRUCTION. "WET WEATHER" CONSTRUCTION MEASURES NEED TO BE APPLIED BETWEEN OCTOBER 1ST AND MAY 31ST.

KEYED EROSION CONTROL NOTES:

1. INSTALL GRAVEL CONSTRUCTION ENTRANCE PER CWS DRAWING NO. 855/C054.
2. TEMPORARY STORAGE, CONSTRUCTION STAGING AND STOCKPILE AREA WITH PLASTIC SHEETING COVER PER CWS DRAWING NO. 810/C054.
3. INSTALL SILT SACK INLET PROTECTION PER CWS DRAWING NO. 920/C054.
4. INSTALL CONCRETE WASHOUT PER CWS DRAWING NO. 900/C054.
5. INSTALL SEDIMENT FENCE PER CWS DRAWING NO 875/C054.
6. INSTALL STRAW WATTLE PER CWS DRAWING NO. 880/C054.
7. TREE PROTECTION FENCE. REFER TO C040 – TREE PRESERVATION & REMOVAL PLAN FOR ALL WORK WITHIN OR ADJACENT TO TREE CANOPY/ROOT ZONES.
8. INSTALL CONSTRUCTION FENCE PER DETAIL 1/C054.

LEGEND

- EXISTING GROUND CONTOUR (1 FT) — 214 —
- EXISTING GROUND CONTOUR (5 FT) — 215 —
- DISTURBED AREA BOUNDARY
- STRAW WATTLE/INTERIOR SEDIMENT FENCE — xxx —
- CONSTRUCTION FENCE — xx —
- SEDIMENT FENCE (INSTALLED PRIOR TO DISTURBANCE) — x —
- TREE PROTECTION FENCE
- EXISTING TREE TO REMAIN
- DIRECTION OF PRE-DEVELOPED RUNOFF
- INLET PROTECTION
- GRAVEL CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT

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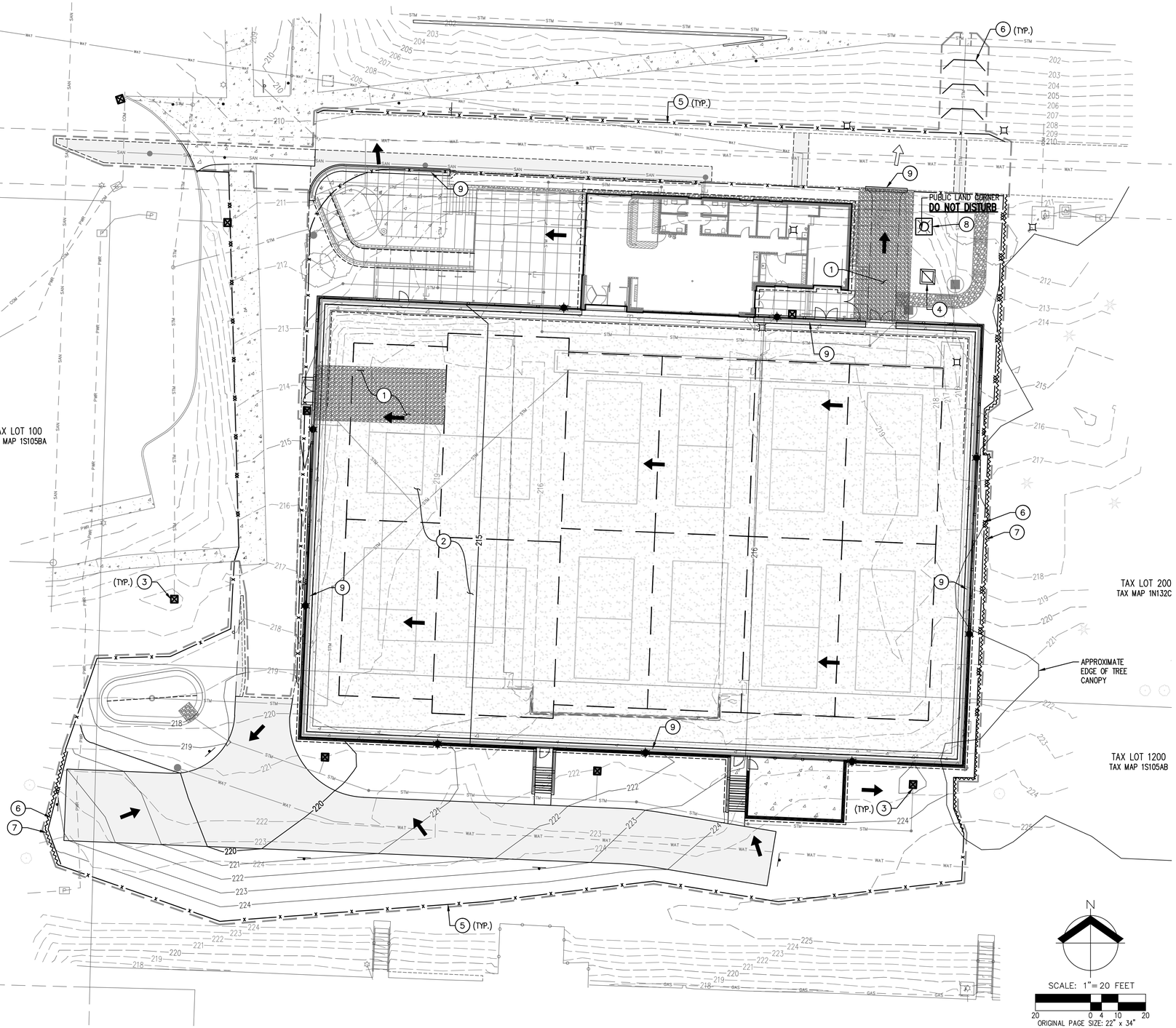
CLEARING & DEMOLITION ESCP

C051



MASS GRADING, SITE STREET, UTILITY, AND VERTICAL CONSTRUCTION EROSION AND SEDIMENT CONTROL NOTES:

1. THE SEED USED FOR TEMPORARY OR INTERIM SEEDING SHALL BE SELECTED BASED ON WHETHER THE AREA CONSISTS OF A NATURAL RESOURCE AREA. THE CONTRACTOR SHALL SUBMIT EROSION CONTROL SEED MIXES FOR APPROVAL PRIOR TO HYDROSEEDING.

   TO BE USED FOR GENERAL EROSION CONTROL AND AREAS OUTSIDE OF NATURAL RESOURCE AREAS.

   A. GENERAL E/C MIX COMPRISED OF SPECIES BELOW APPLIED AT A RATE OF 200 LBS/AC
      - A.1 FESCUE (65% BY WEIGHT)
      - A.2 PERENNIAL RYEGRASS (20% BY WEIGHT)
      - A.3 BLUEGRASS (15% BY WEIGHT)

2. SLOPES TO RECEIVE TEMPORARY OR PERMANENT SEEDING SHALL HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK-WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN-OFF VELOCITY.

3. INTERIM STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF INTERIM VEGETATIVE COVER VIA SEEDING WITH APPROVED MIX AND APPLICATION RATE.

4. TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, SLOPE MATTING, STRAW MULCH, WOOD CHIPS, OR OTHER APPROVED MEASURES.

5. STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION. STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER OF THE STOCKPILE.

6. EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID-SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES. SLOPES EXCEEDING 25% MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES.

7. AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.

8. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.

9. ACTIVE INLETS TO STORMWATER SYSTEMS SHALL BE PROTECTED THROUGH THE USE OF APPROVED INLET PROTECTION MEASURES. ALL INLET PROTECTION MEASURES ARE TO BE REGULARLY INSPECTED AND MAINTAINED AS NEEDED.

10. SATURATED MATERIALS THAT ARE HAULED OFF-SITE MUST BE TRANSPORTED IN WATER-TIGHT TRUCKS TO ELIMINATE SPILLAGE OF SEDIMENT AND SEDIMENT-LADEN WATER.

11. AN AREA SHALL BE PROVIDED FOR THE WASHING OUT OF CONCRETE TRUCKS IN A LOCATION THAT DOES NOT PROVIDE RUN-OFF THAT CAN ENTER THE STORMWATER SYSTEM. IF THE CONCRETE WASH-OUT AREA CAN NOT BE CONSTRUCTED GREATER THAN 50' FROM ANY DISCHARGE POINT, SECONDARY MEASURES SUCH AS BERMS OR TEMPORARY SETTLING BASINS MAY BE REQUIRED. THE WASH-OUT SHALL BE LOCATED WITHIN SIX FEET OF TRUCK ACCESS AND BE CLEANED WHEN IT REACHES 50% OF CAPACITY.

12. AVOID PAVING IN WET WEATHER CONDITIONS WHEN PAVING CHEMICALS CAN RUN-OFF INTO THE STORMWATER SYSTEM.

13. PRIOR TO PAVING, STORMWATER FACILITY SHALL BE PLANTED PER CLEAN WATER SERVICES STANDARDS.

14. USE BMPs SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN-OFF FROM REACHING DISCHARGE POINTS.

15. COVER CATCH BASINS, MANHOLES, AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACK COAT, ETC. TO PREVENT INTRODUCING THESE MATERIALS TO THE STORMWATER SYSTEM.

16. IF NEEDED, CONTRACTOR SHALL SELECT MEANS & METHODS AND PROVIDE DEWATERING PLAN TO CONTROL AND DISCHARGE WATER FROM UTILITY TRENCHES AT A VEGATATED/UPLAND LOCATION OF THE SITE OR INTO A SANITARY MAIN (REQUIRES CITY APPROVAL) PER THE 1200-C PERMIT REQUIREMENTS (SECTION 4.2) THE USE OF AN ACTIVE TREATMENT SYSTEM REQUIRES AN ENVIRONMENTAL MANAGEMENT PLAN (EMP) THAT MUST BE SUBMITTED TO THE CITY AND CWS FOR APPROVAL PRIOR TO STARTING CONSTRUCTION.

17. PROJECT SITE AND DISTURBED AREAS TO BE PROPERLY MAINTAINED TO MINIMIZE DUST GENERATION.

18. CONTRACTOR SHALL NOTIFY ENGINEER AND EROSION CONTROL INSPECTOR IF ENGINEERED SOILS (I.E. CEMENT TREATED SOILS OR BASES) ARE PLANNED AND A SUPPLEMENTAL PLAN SHALL BE SUBMITTED AND APPROVED BY THE LOCAL JURISDICTION AND EC INSPECTOR. THE SUPPLEMENTAL EC PLAN SHALL INCLUDE A SEDIMENT BASIN AND PH MONITORING AS REQUIRED PER SECTION 6.6 OF THE 1200-C PERMIT.

EROSION AND SEDIMENT CONTROL BMP IMPLEMENTATION:

1. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES. ETC.) MUST BE IN PLACE, FUNCTIONAL, AND APPROVED IN AN INITIAL INSPECTION, PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

2. ALL "SEDIMENT BARRIERS" (TO BE INSTALLED AFTER GRADING) SHALL BE INSTALLED IMMEDIATELY FOLLOWING ESTABLISHMENT OF FINISHED GRADE AS SHOWN ON THESE PLANS.

3. INTERIM STABILIZATION MEASURES, INCLUDING SLOPE MATTING AND TEMPORARY/PERMANENT SEEDING SHALL BE IN PLACE OVER ALL EXPOSED SOILS IMMEDIATELY AFTER SITE FINISH GRADE IS ESTABLISHED AND BY OCTOBER 1. CONTRACTOR MAY PHASE LONG TERM STABILIZATION MEASURES BASED ON TIMING AND COMPLETION OF FINISH GRADE.

4. INLET PROTECTION SHALL BE IN-PLACE IMMEDIATELY FOLLOWING PAVING ACTIVITIES.

NOTES:

THESE EROSION AND SEDIMENT CONTROL PLANS ASSUME "DRY WEATHER" CONSTRUCTION. "WET WEATHER" CONSTRUCTION MEASURES NEED TO BE APPLIED BETWEEN OCTOBER 1ST AND MAY 31ST.

(#) KEYED EROSION CONTROL NOTES:

1. MAINTAIN EXISTING GRAVEL CONSTRUCTION ENTRANCE PER CWS DRAWING NO. 855/C054.
2. COVER/MAINTAIN TEMPORARY STORAGE, CONSTRUCTION STAGING AND STOCKPILE AREA WITH PLASTIC SHEETING COVER PER CWS DRAWING NO. 810/C054.
3. MAINTAIN SILT SACK INLET PROTECTION PER DRAWING NO. 920/C054.
4. MAINTAIN CONCRETE WASHOUT PER CWS DRAWING NO. 900/C054.
5. MAINTAIN SEDIMENT FENCE PER CWS DRAWING NO 875/C054.
6. MAINTAIN STRAW WATTLE PER CWS DRAWING NO. 880/C054.
7. MAINTAIN TREE PROTECTION FENCE. REFER TO C040 – TREE PRESERVATION & REMOVAL PLAN FOR ALL WORK WITHIN OR ADJACENT TO TREE CANOPY/ROOT ZONES.
8. MAINTAIN CONSTRUCTION FENCE PER DETAIL 1/C054.
9. INSTALL FILTER FABRIC OVER TRENCH DRAIN AND SECURE IN PLACE WITH GRATE OR APPROVED EQUAL SIMILAR TO DRAWING NO. 920/C054.

TOTAL DISTURBANCE AREA: ±1.8 ACRES

LEGEND

- EXISTING GROUND CONTOUR (1 FT) — 214 —
- EXISTING GROUND CONTOUR (5 FT) — 215 —
- FUTURE GROUND CONTOUR (1 FT) — 214 —
- FUTURE GROUND CONTOUR (5 FT) — 215 —
- DISTURBED AREA BOUNDARY
- STRAW WATTLE/INTERIOR SEDIMENT FENCE — xxx —
- CONSTRUCTION FENCE — xx —
- SEDIMENT FENCE (INSTALLED PRIOR TO DISTURBANCE) — x —
- TREE PROTECTION FENCE
- EXISTING TREE TO REMAIN
- DIRECTION OF PRE-DEVELOPED RUNOFF
- DIRECTION OF POST-DEVELOPED RUNOFF
- INLET PROTECTION
- GRAVEL CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT

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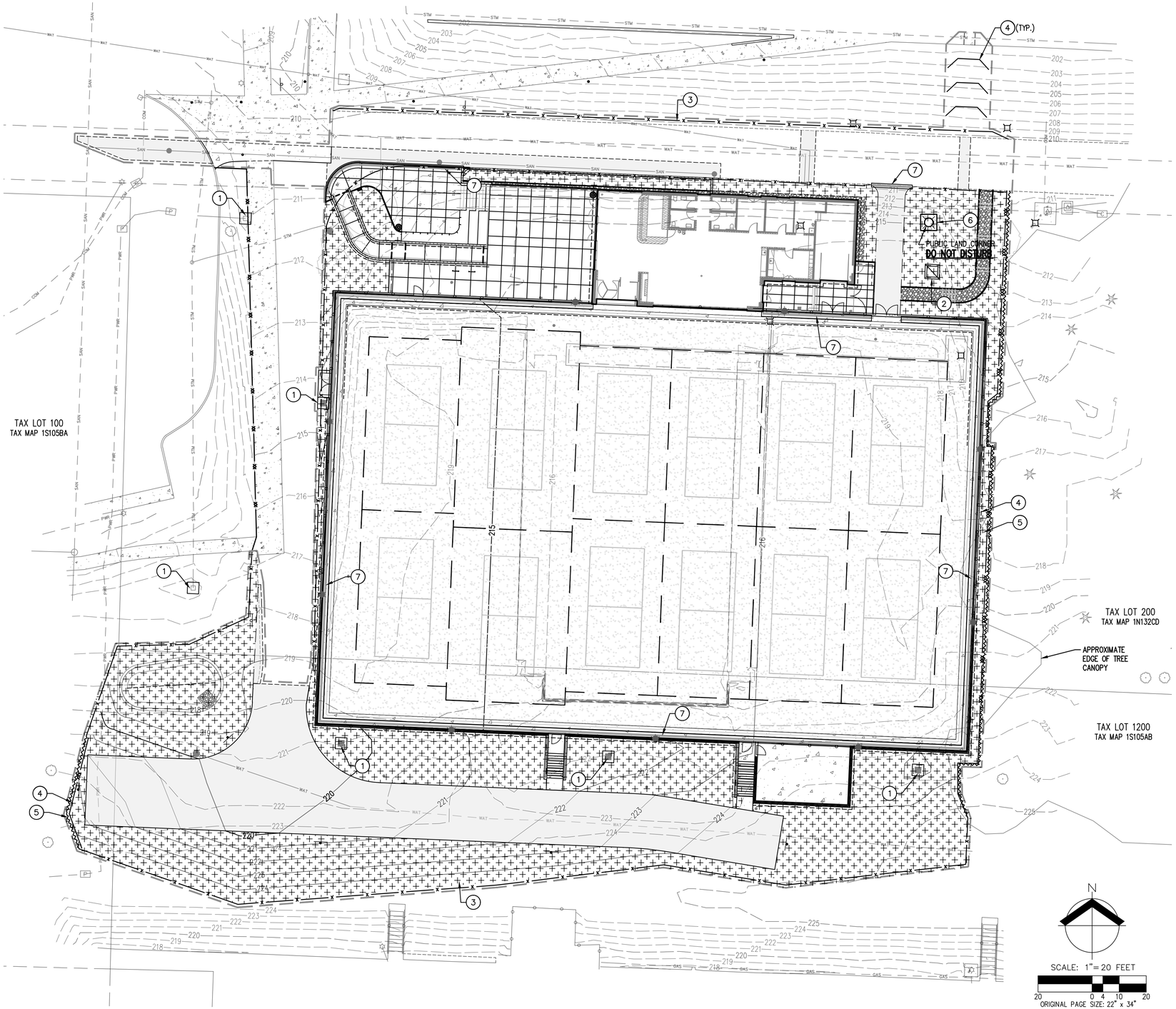
MASS GRADING & STABILIZATION PLAN ESCP

C052



FINAL STABILIZATION EROSION & SEDIMENT CONSTRUCTION NOTES:

1. FINAL LANDSCAPING, VEGETATION, AND/OR PERMANENT COVERINGS (I.E. DECORATIVE GRAVEL) SHALL COVER ALL EXPOSED SOILS AND ESTABLISH 70% COVERAGE PER THE PERMIT REQUIREMENTS.
2. SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE SHALL NOT BE TRANSFERRED TO THE STORMWATER SYSTEM. SWEEPINGS SHALL BE PICKED UP AND DISPOSED IN THE TRASH.
3. ALL TEMPORARY EC MEASURES (I.E., SILT FENCES, WATTLES, INLET PROTECTION) AND POTENTIAL POLLUTANTS (INCLUDING SEDIMENT RETAINED BY THESE MEASURES) SHALL BE REMOVED AND DISPOSED OFFSITE UNLESS OTHERWISE DICTATED BY THE LOCAL JURISDICTION EROSION CONTROL REQUIREMENTS.

KEYED EROSION CONTROL NOTES:

1. MAINTAIN SILT SACK INLET PROTECTION PER DRAWING NO. 920/C054.
2. MAINTAIN CONCRETE WASHOUT PER CWS DRAWING NO. 900/C054.
3. MAINTAIN SEDIMENT FENCE PER CWS DRAWING NO. 875/C054.
4. MAINTAIN STRAW WATTLE PER CWS DRAWING NO. 880/C054.
5. MAINTAIN TREE PROTECTION FENCE. REFER TO C040 – TREE PRESERVATION & REMOVAL PLAN FOR ALL WORK WITHIN OR ADJACENT TO TREE CANOPY/ROOT ZONES.
6. MAINTAIN CONSTRUCTION FENCE PER DEATIL 1/C054.
7. INSTALL FILTER FABRIC OVER TRENCH DRAIN AND SECURE IN PLACE WITH GRATE OR APPROVED EQUAL SIMILAR TO DRAWING NO. 920/C054.

TOTAL DISTURBANCE AREA: ±1.8 ACRES

LEGEND

- EXISTING GROUND CONTOUR (1 FT) — 214 —
- EXISTING GROUND CONTOUR (5 FT) — 215 —
- FINISHED GRADE CONTOUR (1 FT) — 214 —
- FINISHED GRADE CONTOUR (5 FT) — 215 —
- DISTURBANCE LIMITS
- STRAW WATTLE/INTERIOR SEDIMENT FENCE — xxx —
- CONSTRUCTION FENCE — xx —
- SEDIMENT FENCE (INSTALLED PRIOR TO DISTURBANCE) — x —
- TREE PROTECTION FENCE
- CONCRETE SIDEWALK
- PICKLEBALL COURT
- AC PAVEMENT
- LANDSCAPE
- EXISTING TREE TO REMAIN

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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02/10/2026
DRAWN BY: MNH

BID SET

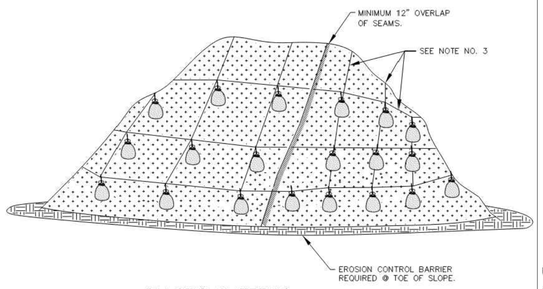
REVISIONS:

REGISTERED PROFESSIONAL ENGINEER
97708PE
Austin Cole 2026.02.10 15:08:48-08'00'
OREGON
SEPTEMBER 14, 2021
AUSTIN MORGAN COLE
RENEWS: DECEMBER 31, 2027

FINAL LANDSCAPE & STABILIZATION ESCP

C053

FOR FURTHER INFORMATION ON DESIGN CRITERIA SEE CHAPTER 4 OF CLEAN WATER SERVICES EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.



PLASTIC SHEETING

NOTES:

1. MINIMUM 12" OVERLAP OF ALL SEAMS REQUIRED.
2. BARRIER REQUIRED @ TOE OF STOCK PILE.
3. COVERING MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR APPROVED EQUAL ON ROPES WITH A MAXIMUM 10' GRID SPACING IN ALL DIRECTIONS.
4. PLASTIC TO EXTEND MINIMUM 1' BEYOND TOE OF SLOPE

PLASTIC SHEETING

DRAWING NO. 810 REVISED 12-16

CleanWater Services

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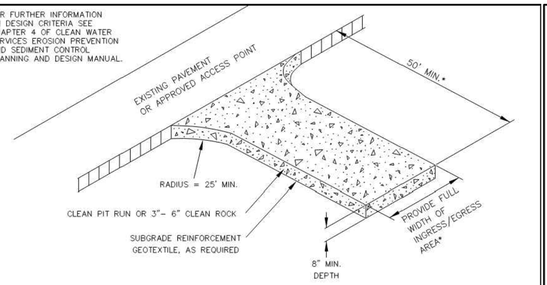
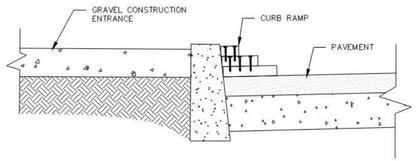


*20' MIN. FOR SINGLE FAMILY AND DUPLEX RESIDENTIAL



NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF- WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
4. WHERE RUNOFF CONTAINING SEDIMENT LADEN WATER IS LEAVING THE SITE VIA THE CONSTRUCTION ENTRANCE, OTHER MEASURES SHALL BE IMPLEMENTED TO DIVERT RUNOFF THROUGH AN APPROVED FILTERING SYSTEM.
5. DIMENSIONS
   SINGLE FAMILY
   20' LONG BY 20' WIDE 8" DEEP OF ¾" MINUS CLEAN ROCK.
   COMMERCIAL
   50' LONG BY 20' WIDE 3-6" CLEAN ROCK, GOVERNING AUTHORITY MAY REQUIRE GEOTEXTILE FABRIC TO PREVENT SUB-SOIL PUMPING.

CONSTRUCTION ENTRANCE

DRAWING NO. 855 REVISED 12-16

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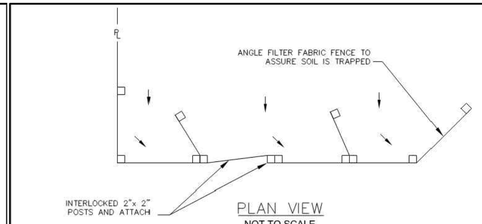
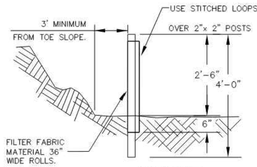


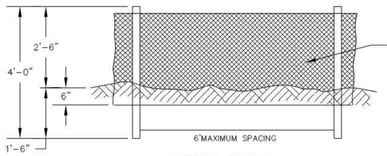
PLAN VIEW
NOT TO SCALE



PROFILE
NOT TO SCALE

NOTES:

1. BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
2. 2"x 2" FIR, PINE OR STEEL FENCE POSTS.
3. POSTS TO BE INSTALLED ON UPHILL SIDE OF SLOPE.
4. COMPACT BOTH SIDES OF FILTER FABRIC TRENCH.
5. PANELS MUST BE PLACED ACCORDING TO SPACING ON DETAIL NO.940



FRONT VIEW
NOT TO SCALE

FOR FURTHER INFORMATION ON DESIGN CRITERIA SEE CHAPTER 4 OF CLEAN WATER SERVICES EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

SEDIMENT FENCE

DRAWING NO. 875 REVISED 12-16

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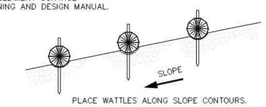
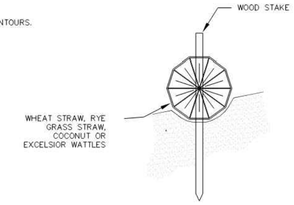
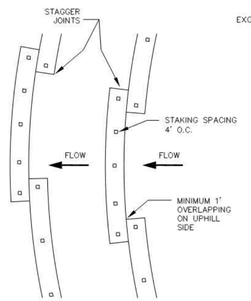


PROFILE
NOT TO SCALE



SECTION
NOT TO SCALE



PLAN VIEW
NOT TO SCALE

NOTES:

1. STAKING SPECIFICATIONS:
   a. 1"x2" WOODEN STAKES
   b. ADDITIONAL STAKES MAY BE INSTALLED ON DOWNHILL SIDE OF WATTLES, ON STEEP SLOPE OR HIGHLY ERODSIVE SOILS.
2. SPACING IN ACCORDANCE WITH DETAIL 940.
3. REMOVE ALL ROCKS, CLODS, VEGETATION OR OTHER OBSTRUCTIONS SO THAT THE INSTALLED WATTLES WILL HAVE DIRECT CONTACT WITH THE SOIL.
4. INSTALL THE WATTLES IN A 2" DEEP TRENCH, INSURING THAT NO GAPS EXIST BETWEEN THE SOIL AND THE BOTTOM OF THE WATTLE. THE ENDS OF ADJACENT WATTLES SHALL BE OVERLAPPED 1 FT. MINIMUM TO PREVENT SEDIMENT PASSING THROUGH THE FIELD JOINT.

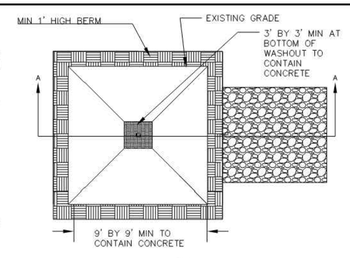
WATTLES

DRAWING NO. 880 REVISED 12-16

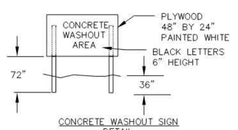
CleanWater Services

NOTES:

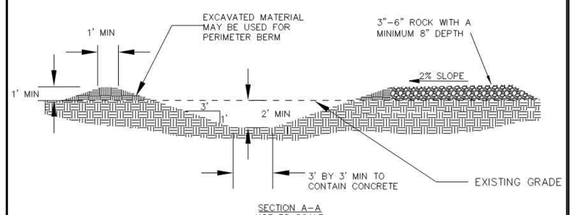
1. WASHOUT FACILITIES SHALL BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 12 INCHES.
2. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.
3. IF THE WASHOUT IS NEARING CAPACITY, VACUUM AND DISPOSE OF THE WASTE MATERIAL IN AN APPROVED MANNER.
4. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 50 FT FROM SENSITIVE AREAS INCLUDING OPEN DRAINAGE FACILITIES AND WATERSOURSES.
5. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
6. INSTALL CONCRETE WASHOUT SIGN WITHIN 30 FEET OF TEMPORARY CONCRETE WASHOUT FACILITY.
7. TEMPORARY CONCRETE WASHOUTS MAY BE A PREFABRICATED CONTAINER THAT IS PORTABLE AND REUSABLE.



PLAN
NOT TO SCALE



CONCRETE WASHOUT SIGN DETAIL
(OR EQUIVALENT)
NOT TO SCALE



SECTION A-A
NOT TO SCALE

CONCRETE WASHOUT

DRAWING NO. 900 REVISED 12-16

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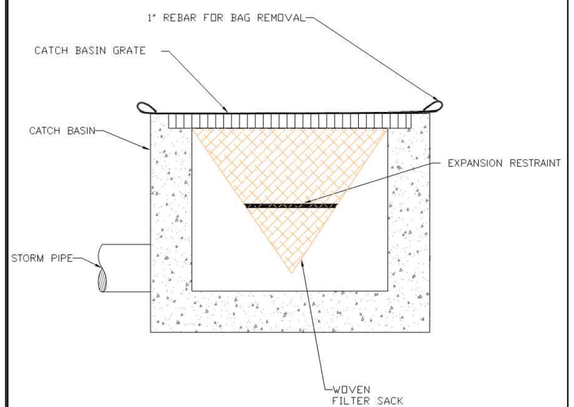

CATCH BASIN INSERT

NOTE:

1. RECESSED CURB INLET CATCH BASINS MUST BE BLOCKED WHEN USING FILTER FABRIC INLET SACKS. SIZE OF FILTER FABRIC INLET SACKS TO BE DETERMINED BY MANUFACTURER.

FOR FURTHER INFORMATION ON DESIGN CRITERIA SEE CHAPTER 4 OF CLEAN WATER SERVICES EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

INLET PROTECTION TYPE 5

DRAWING NO. 920 REVISED 12-16

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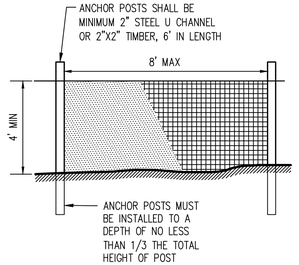

NOTES:

1. BLAZE ORANGE PLASTIC MESH FENCE FOR TREE PROTECTION DEVICE OR APPROVED EQUAL.
2. 12 GAUGE WIRE SHALL BE STRUNG BETWEEN EACH POST AND ATTACH TO THE TOP AND MIDPOINT OF EACH POST.
3. DEVICE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.

CONSTRUCTION FENCE
NTS

1 ESC

GENERAL EROSION CONTROL NOTES:

1. COMPLY WITH ALL APPLICABLE PROVISIONS IN CHAPTER 6 OF THE DESIGN AND CONSTRUCTION STANDARDS (CURRENT): R&O 19-5 AS AMENDED BY R&O 19-22, ADOPTED NOVEMBER 12, 2019.
2. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE DISCHARGED OVER AN UNDISTURBED, PREFERABLY VEGETATED AREA, AND THROUGH A SEDIMENT CONTROL BMP LIKE A FILTER BAG.
3. ALL EXPOSED SOILS MUST BE COVERED DURING WET WEATHER PERIOD, OCTOBER 1, - MAY 31.
4. HOLD A PRECONSTRUCTION MEETING WITH PROJECT CONSTRUCTION PERSONAL THAT INCLUDES THE INSPECTOR TO DISCUSS EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION LIMITS.

PRE-CONSTRUCTION, CLEARING, AND DEMOLITION NOTES:

1. SEDIMENT BARRIERS APPROVED FOR USE INCLUDE SEDIMENT FENCE, BERMS CONSTRUCTED OUT OF MULCH, CHIPPINGS, STRAW WATTLES OR OTHER APPROVED MATERIALS.
2. ALL BASE ESC MEASURES (INLET PROTECTION, PERIMETER SEDIMENT CONTROL, GRAVEL CONSTRUCTION ENTRANCES, ETC.) MUST BE IN PLACE, FUNCTIONAL AND APPROVED IN AN INITIAL INSPECTION PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.
3. RUN-ON AND RUN-OFF SHALL BE IN PLACE AND FUNCTIONING PRIOR TO BEGINNING SUBSTANTIAL CONSTRUCTION ACTIVITIES. RUN-ON AND RUN-OFF CONTROL MEASURES INCLUDE: SLOPE DRAINS (WITH OUTLET PROTECTION), CHECK DAMS, SURFACE ROUGHENING, AND BANK STABILIZATION.

GRADING, STREET AND UTILITY EROSION AND SEDIMENT CONSTRUCTION NOTES:

1. IF VEGETATED SEED MIXES ARE SPECIFIED, SEEDING MUST TAKE PLACE NO LATER THAN SEPTEMBER 1ST. VEGETATED CORRIDOR AREAS REQUIRE NATIVE SEED MIXES, SEE RESTORATION PLAN FOR APPROPRIATE SEED MIX IN THOSE AREAS. SEED USED FOR TEMPORARY OR PERMANENT SEEDING OUTSIDE VEGETATED CORRIDORS SHALL BE COMPOSED OF ONE OF THE FOLLOWING MIXTURES, UNLESS OTHERWISE AUTHORIZED:
   A. DWARF GRASS MIX (MIN. 100 LB./AC.)
      1. DWARF PERENNIAL RYEGRASS (80% BY WEIGHT)
      2. CREEPING RED FESCUE (20% BY WEIGHT)
   B. STANDARD HEIGHT GRASS MIX (MIN. 100LB.AC)
      1. ANNUAL RYEGRASS (40% BY WEIGHT)
      2. TURF--TYPE FESCUE (60% BY WEIGHT)
2. SLOPE TO RECEIVE TEMPORARY OR PERMANENT SEEDING HAVE THE SURFACE ROUGHENED BY MEANS OF TRACK--WALKING OR THE USE OF OTHER APPROVED IMPLEMENTS. SURFACE ROUGHENING IMPROVES SEED BEDDING AND REDUCES RUN--OFF VELOCITY.
3. LONG TERM SLOPE STABILIZATION MEASURES SHALL INCLUDE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER VIA SEEDING WITH APPROVED MIX AND APPLICATION RATE.
4. TEMPORARY SLOPE STABILIZATION MEASURES SHALL INCLUDE: COVERING EXPOSED SOIL WITH PLASTIC SHEETING, STRAW MULCHING, WOOD CHIPS, OR OTHER APPROVED MEASURES.
5. STOCKPILED SOIL OR STRIPPINGS SHALL BE PLACED IN A STABLE LOCATION AND CONFIGURATION. DURING "WET WEATHER" PERIODS, STOCKPILES SHALL BE COVERED WITH PLASTIC SHEETING OR STRAW MULCH. SEDIMENT FENCE IS REQUIRED AROUND THE PERIMETER OF THE STOCKPILE.
6. EXPOSED CUT OR FILL AREAS SHALL BE STABILIZED THROUGH THE USE OF TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS OR MATS, MID--SLOPE SEDIMENT FENCES OR WATTLES, OR OTHER APPROPRIATE MEASURES. SLOPES EXCEEDING 25% MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES.
7. AREAS SUBJECT TO WIND EROSION SHALL USE APPROPRIATE DUST CONTROL MEASURES INCLUDING THE APPLICATION OF A FINE SPRAY OF WATER, PLASTIC SHEETING, STRAW MULCHING, OR OTHER APPROVED MEASURES.
8. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES INCLUDING, BUT NOT LIMITED TO, TIRE WASHES, STREET SWEEPING, AND VACUUMING MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
9. USE BMPS SUCH AS CHECK-DAMS, BERMS, AND INLET PROTECTION TO PREVENT RUN--OFF FROM REACHING DISCHARGE POINTS.
10. COVER CATCH BASINS, MANHOLES AND OTHER DISCHARGE POINTS WHEN APPLYING SEAL COAT, TACT COAT ETC. TO PREVENT PRODUCTS FROM ENTERING THE STORM SYSTEM.

EROSON AND SEDIMENT CONTROL BMP IMPLEMENTATION:

1. ALL SEDIMENT BARRIERS TO BE INSTALLED AFTER GRADING SHALL BE INSTALLED IMMEDIATELY FOLLOWING ESTABLISHMENT OF FINISHED GRADE AS SHOWN ON THESE PLANS.
2. LONG TERM SLOPE STABILIZATION MEASURES "INCLUDING MATTING" SHALL BE IN PLACE OVER ALL EXPOSED SOILS BY OCTOBER 1.
3. THE STORM WATER FACILITY SHALL BE CONSTRUCTED AND LANDSCAPED PRIOR TO THE STORM WATER SYSTEM FUNCTIONING AND SITE PAVING.
4. INLET PROTECTION SHALL BE IN--PLACE IMMEDIATELY FOLLOWING PAVING ACTIVITIES.

STANDARD EROSION CONTROL NOTES FOR SITES 1 ACRE AND GREATER

DRAWING NO. 946 REVISED 6-30-21

CleanWater Services

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FIELDWORK DESIGN & ARCHITECTURE
1752 SE HAWTHORNE BLVD
PORTLAND, OREGON 97214
503.360.1437

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EROSION & SEDIMENT CONTROL DETAILS

C054

OREGON PROFESSIONAL CERTIFICATION

Is your Erosion and Sediment Control Plan (ESCP) for an activity that covers 20 acres or more of disturbed land (Section 4.1)?

☐ Yes ☒ No

Does your Erosion and Sediment Control Plan require engineered facilities such as settling basins and/or diversion structures (Sections 2.2.17 and 2.2.18)?

☐ Yes ☒ No

If yes, see plans/attachments for licensed Professional Engineer (PE) stamp.

CONTRACTOR INFORMATION

Contractor:	
Responsible Person:	Name Phone # Email
Subcontractors:	Included as attached.
Comments:	Attached detailed list of contractors and subcontractors to be incorporated into 1200C inspection binder to be kept onsite. Contractor list intended for use is attached for reference and will be continually updated throughout the project.

ENVIRONMENTAL MANAGEMENT PLAN (EMP) - SECTION 1.2.9

Will contaminated soils, contaminated groundwater, or hazardous materials be or have the potential to be encountered during construction activities?

☐ Yes ☒ No (not anticipated at this time)

Is an active treatment system (e.g. electro-coagulation, flocculants, filtration, polymers, hydrochloric or sulfuric acid) for sediment, pH neutralization, or other pollutant removal planned or to be implemented at the project site?

☐ Yes ☒ No (not anticipated at this time)

If contaminated soils are identified during construction or if active treatment is required for the project site, a follow-up revision will be submitted that includes the required EMP.

TMDL & 303(D) LISTING

Does the site discharge to a waterbody that is listed as impaired and requires a TMDL for turbidity, sedimentation, or category listings 4 & 5 based on the most recent approved Oregon 303(d) list?

☒ Yes ☐ No

Provide 303(d) listing(s):	Willow Creek, Category 5 (BioCriteria)

WATERS OF STATE/NATURAL RESOURCE IMPACTS?

Are wetlands or waters of the state present onsite?

☐ Yes ☒ No

Does the project result in construction impacts to waters of the state or wetlands?

☐ Yes ☒ No

Please provide the following information if applicable:

Corps of Engineers Permit #:	
DEQ 401 WQC:	
DEQ MAO (MUTUAL AGREEMENT AND ORDER IN LIEU OF PERMIT)	

Does the project or its improvements cross any water of the state?

☐ Yes ☒ No

If yes, provide name and location on plans showing water crossing location:

NATURAL BUFFER ZONES

Are undisturbed Natural Buffer Zones provided per DEQ requirements (Section 2.2.4 & Appendix B)?

☐ Yes ☐ No ☒ N/A

If no, see attached 1200C Natural Buffer Zone Compliance Alternatives for additional information/calculations that provide equivalent erosion & sediment controls.

If N/A, provide justification below:

No wetlands or waters of the state (and the corresponding Natural Buffer Zone) are present onsite.

ENGINEERED SOILS

Are engineered soils (i.e., cement or other soil amendments per Section 2.2.18) planned to be used onsite?

☐ Yes ☒ No

If yes, please see supplemental EC plan for additional details.

SELECTED RAIN GAUGE

The selected rain gauge for this project is as follows:

Name	14206900
Location	Fanno Creek at 56th Ave, Portland, OR
Service	USGS
Source Web Address	https://waterdata.usgs.gov/monitoring-location/USGS-14206900/#dataTypeId=continuous-00065-0&period=P7D&showFieldMeasurements=true

AUTHORIZED NON-STORMWATER DISCHARGES

Table below is based on current assumptions for the project and will vary depending on selected Contractor's means and methods.

POTENTIAL NON-STORMWATER DISCHARGE		ADDITIONAL COMMENTS?
Fire Hydrant & Water Main Flushings:	☐ Yes ☒ N/A	
Landscape Irrigation:	☒ Yes ☐ N/A	Excess water from irrigation not expected
Wash Water (from equipment & vehicles):	☐ Yes ☒ N/A	Not expected onsite
Dust Control Water:	☒ Yes ☐ N/A	Dust control water should not result in runoff/discharge
Pavement Wash Waters	☐ Yes ☒ N/A	Not expected onsite
Foundation or Footing Drains	☒ Yes ☐ N/A	Anticipated during wet periods of year after home construction for individual homes is completed
Construction Dewatering Activities:	☒ Yes ☐ N/A	Not expected onsite

POTENTIAL POLLUTANT-GENERATING ACTIVITIES

Table below is based on current assumptions for the project and will vary depending on contractor means and methods selected to construct the project.

POLLUTANT-GENERATING ACTIVITY	POTENTIAL POLLUTANT	COMMENT
Site earthwork & lot grading	Sediment & turbidity	Grading has been completed. The only earthwork activity anticipated is for home excavation dig outs and yard landscaping disturbance. The Erosion & Sediment Control Plan (ESCP) is intended to provide BMPs and mitigate potential for offsite discharge during rainfall events
Concrete pours	Cement or concrete	Concrete pours to be located within home building setbacks for foundations, sidewalks, garages, and driveways per plans and excess concrete directed to concrete washouts
Equipment cleaning and restocking	Gasoline or diesel fuels, oils, hydraulic fluids, paints etc....	Contractor required to have spill control plan in-place prior to start of construction. Cleaning of paint and mortar tools to be done in proper washout containers. Containers to be maintained regularly to prevent overfilling
Final Landscaping	Fertilizers & pesticides	Final landscaping of lots is not expected to cause/result in pollutant runoff and landscape watering should be maintained to limit surface runoff. Contractor required to have spill control plan in-place prior to start of construction.

Please note that the above list is not all encompassing of all phases of activity on the project. Contractor will be required to provide and update list for potential pollutants throughout the various phases of the project.

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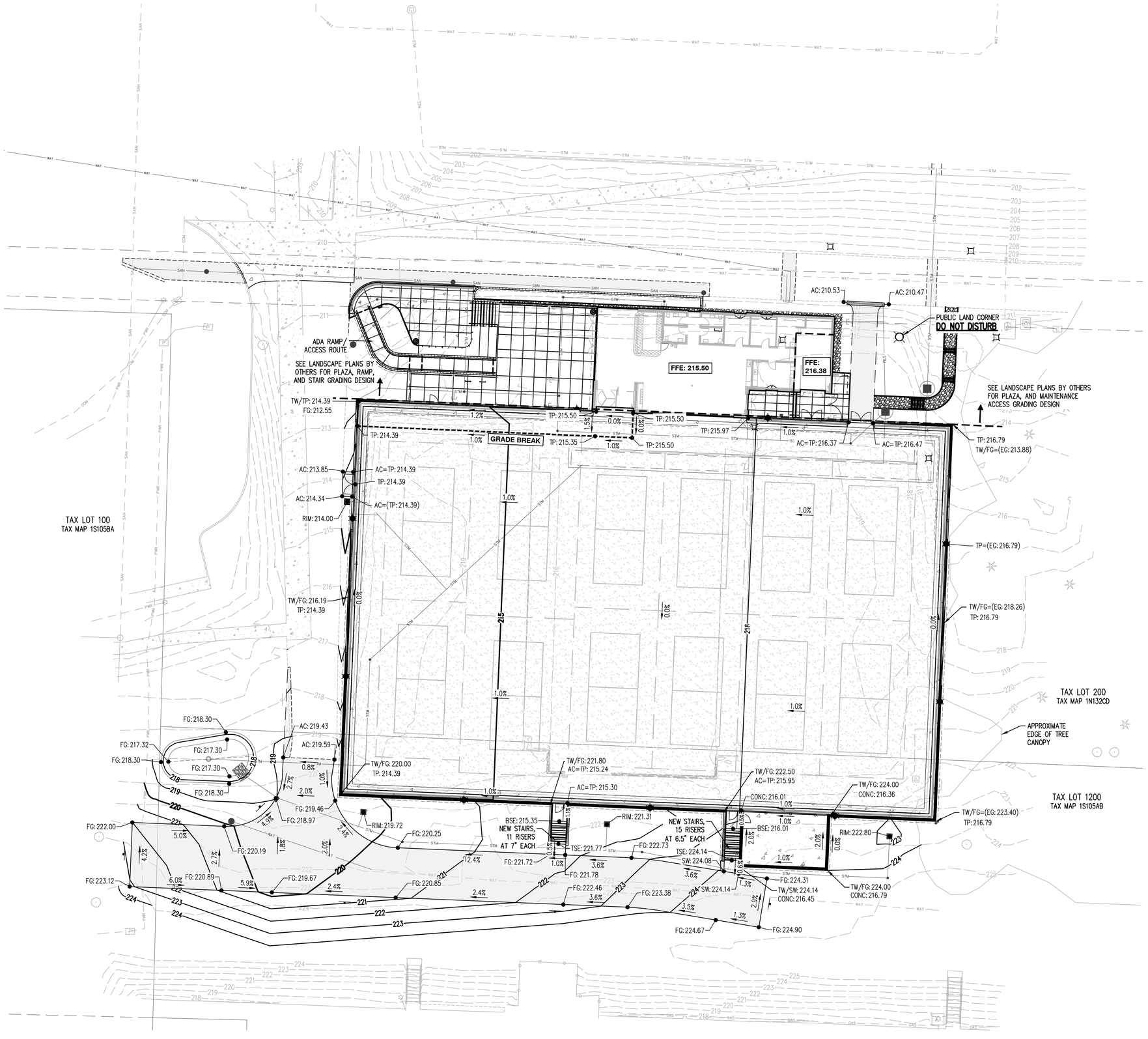
EROSION & SEDIMENT CONTROL DETAILS

C055



LEGEND

214	EXISTING GROUND COUNTOUR (1 FT)
215	EXISTING GROUND COUNTOUR (5 FT)
214	FINISHED GRADE CONTOUR (1 FT)
215	FINISHED GRADE CONTOUR (5 FT)
AC: XXX.XX	AC PAVEMENT ELEVATION
SW: XXX.XX	SIDEWALK ELEVATION
TC: XXX.XX	TOP OF CURB ELEVATION
FG: XXX.XX	FINISH GRADE ELEVATION
RIM: XXX.XX	RIM ELEVATION
FFE: XXX.XX	FINISH FLOOR ELEVATION
(EG: XXX.XX)	EXISTING ELEVATION
BSE: XXX.XX	BOTTOM OF STAIR ELEVATION
TSE: XXX.XX	TOP OF STAIR ELEVATION
TP: XXX.XX	TOP OF PLAY SURFACE ELEVATION

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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02/10/2026
DRAWN BY: MNH

BID SET

REVISIONS:

REGISTERED PROFESSIONAL ENGINEER
97708PE
Austin Cole 2026.02.10 15:08:53-08'00'
OREGON
AUSTIN MORGAN COLE
SEPTEMBER 14, 2021
RENEWS: DECEMBER 31, 2027

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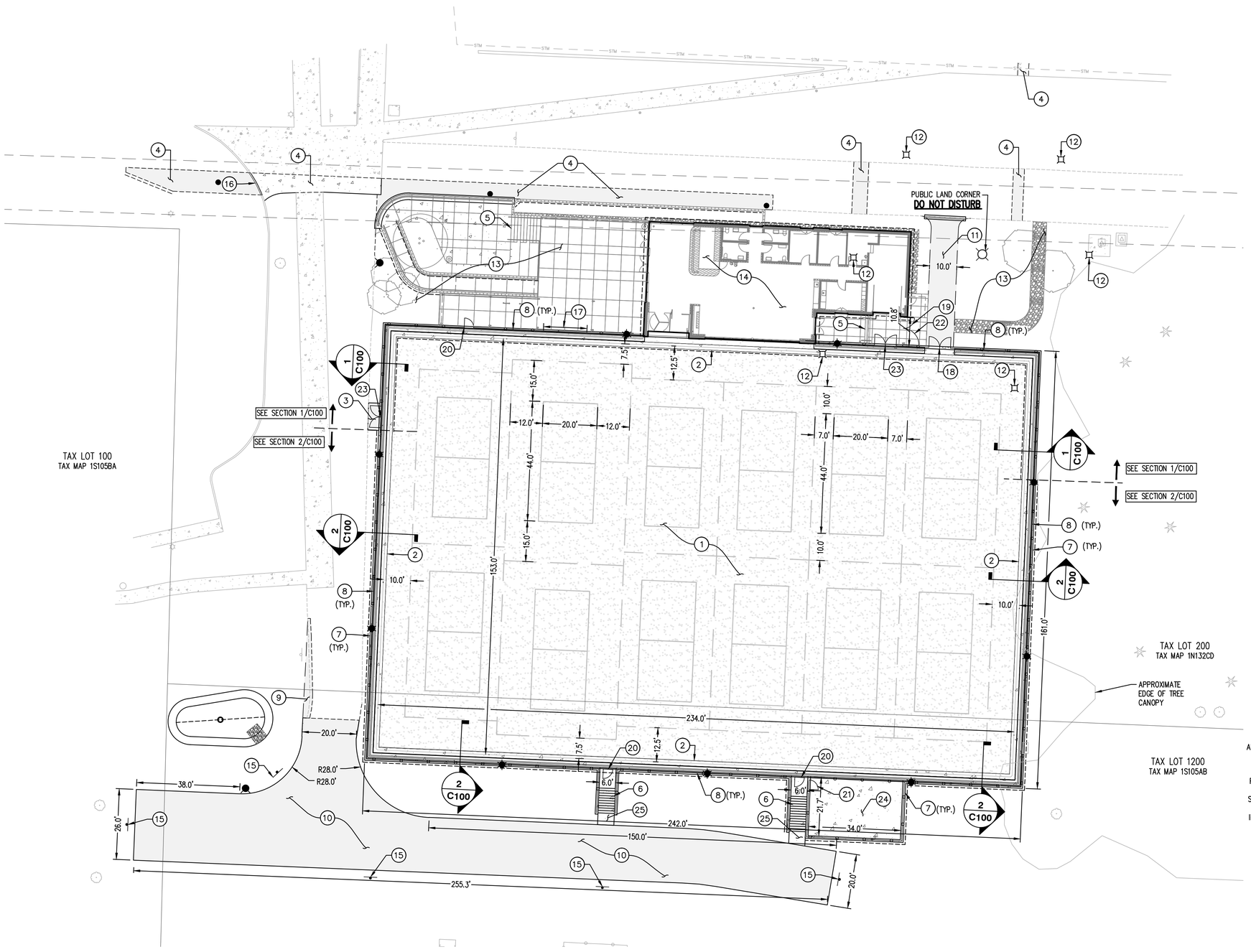
SCALE: 1" = 20 FEET
20 0 4 10 20
ORIGINAL PAGE SIZE: 22" x 34"

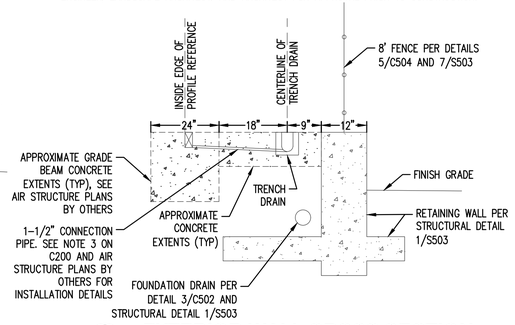
GRADING PLAN

C070

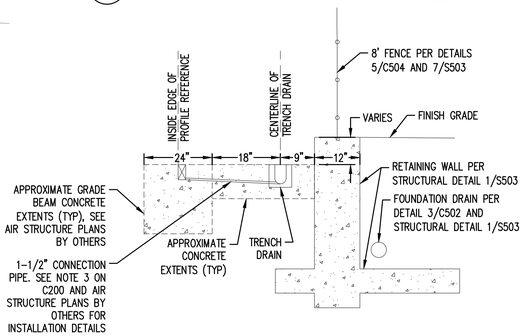


KEYED SITE NOTES:

1. CONSTRUCT PICKLEBALL COURTS WITH TYPICAL RUNOUTS PER DETAIL 2/C500
2. CONSTRUCT AIR STRUCTURE GRADE BEAM, SEE AIR SUPPORTED STRUCTURE PLANS BY OTHERS.
3. CONSTRUCT ASPHALT MAINTENANCE ACCESS DRIVE PER DETAIL 1/C500.
4. COMPLETE UTILITY TRENCHING ASPHALT/CONCRETE REPAIR.
5. CONCRETE PLAZA STAIRS, SEE LANDSCAPE PLANS BY OTHERS.
6. CONSTRUCT NEW CONCRETE STAIRS PER DETAIL 4-5/C501 BY AKS.
7. CONSTRUCT NEW CONVENTIONAL RETAINING WALL PER STRUCTURAL DETAIL 1/S503 AND PER GRADING PLAN. SAND FINISH CONCRETE (EXPOSED RETAINING WALLS).
8. CONSTRUCT 8' TALL CHAIN LINK FENCE WITH OPEN MESH WIND SCREEN FABRIC PER DETAILS 5/C500 AND STRUCTURAL DETAIL 7/S503.
9. CONSTRUCT ASPHALT SHOULDER ALONG EXISTING ACCESS DRIVE TO PROVIDE MINIMUM 20' WIDTH PER DETAIL 1/C500.
10. CONSTRUCT ASPHALT FIRE ACCESS DRIVE PER DETAIL 1/C500.
11. CONSTRUCT ASPHALT MAINTENANCE ACCESS DRIVE PER DETAIL 1/C500 WITH ASPHALT EDGE RESTRAINT PER DETAIL 6/C501.
12. EXISTING REFERENCE MONUMENT FOR PUBLIC LAND CORNER, DO NOT DISTURB. COORDINATE WITH ENGINEER AND COUNTY SURVEYOR FOR RELOCATION AS NECESSARY FOR PROPOSED IMPROVEMENTS.
13. REFER TO LANDSCAPE ARCHITECTURE PLANS BY OTHERS FOR ENTRY/PLAZA DESIGN AND SITE FEATURES NOT DETAILED ON THESE PLANS.
14. REFER TO ARCHITECTURE PLANS BY OTHERS FOR BUILDING DESIGN AND SITE FEATURES NOT DETAILED ON THESE PLANS.
15. INSTALL FIRE LANE SIGNAGE PER DETAIL 3/C501.
16. CONSTRUCT STANDARD TYPE-C CURB PER DETAIL 4/C500.
17. CONSTRUCT 8' TALL, 20' WIDE MANUAL CANTILEVER ROLLER GATE PER DETAIL 6/C500. CENTER ROLLER GATE BETWEEN COLUMNS.
18. INSTALL 8' TALL, 4' WIDE (8' TOTAL) DOUBLE OUT-SWINGING BLACK VINYL-CLAD PEDESTRIAN GATE PER DETAIL 5/C500. GATE IS TO BE REMOVED WHEN THE AIR STRUCTURE IS DEPLOYED FOR ADA COMPLIANCE.
19. INSTALL 8' TALL, 3.5' WIDE BLACK VINYL-CLAD CHAIN LINK ACCESS GATE WITH PANIC HARDWARE PER DETAIL 1/C501, PROVIDE KEY IN THE KNOX LOCKBOX ON THE BUILDING PER TVF&R FIRE STANDARDS.
20. INSTALL 8' TALL, 3.5' WIDE OUT-SWINGING BLACK VINYL-CLAD PEDESTRIAN GATE PER DETAIL 2/C501. GATE IS TO BE REMOVED WHEN THE AIR STRUCTURE IS DEPLOYED FOR ADA COMPLIANCE.
21. INSTALL 8' TALL, 3.5' WIDE OUT-SWINGING BLACK VINYL-CLAD PEDESTRIAN GATE PER DETAIL 2/C501.
22. INSTALL 8' TALL, 6' WIDE BLACK VINYL-CLAD CHAIN LINK ACCESS GATE WITH CANE PER DETAIL 2/C501.
23. INSTALL 8' TALL, 4' WIDE (8' TOTAL) DOUBLE OUT-SWINGING BLACK VINYL-CLAD PEDESTRIAN GATE PER DETAIL 5/C500.
24. INSTALL CONCRETE PAD PER AIR STRUCTURE CALLOUT ON SHEET AS8.
25. CONSTRUCT CONCRETE SIDEWALK PER DETAIL 3/C500. SEE LANDSCAPE ARCHITECTURE PLANS FOR CONCRETE FINISHING AND SCORING. CONTRACTOR SHALL PROVIDE A FINAL SCORING PLAN TO ENGINEER, LANDSCAPE ARCHITECT, AND ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.



1 EXTERIOR WALL CROSS SECTION
Scale: NTS



2 EXTERIOR WALL CROSS SECTION
Scale: NTS

LEGEND

- NEW CONCRETE
- NEW PICKLEBALL COURT
- NEW ASPHALT
- COURT RUNOUT

N

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SEPTEMBER 8, 2014
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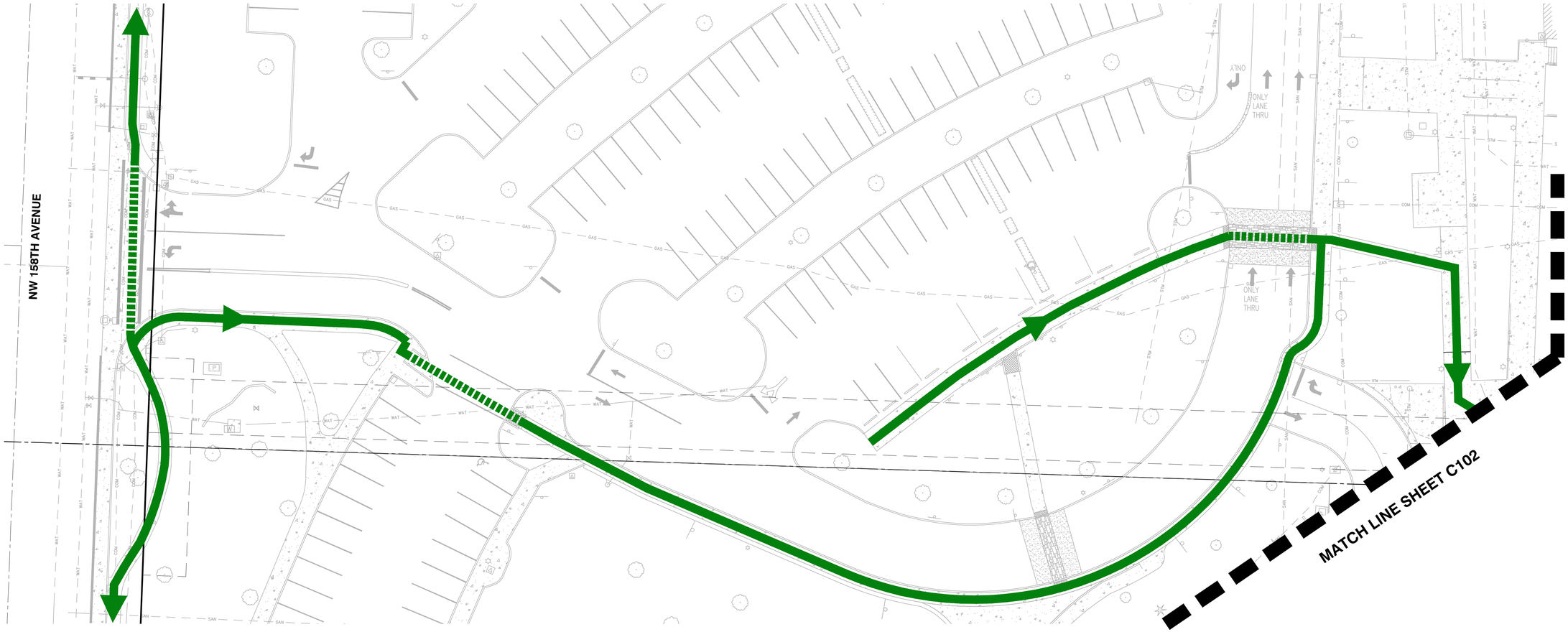
SITE PLAN

C100



LEGEND

PEDESTRIAN CIRCULATION

PEDESTRIAN CROSSING

N

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PEDESTRIAN CIRCULATION PLAN

C101

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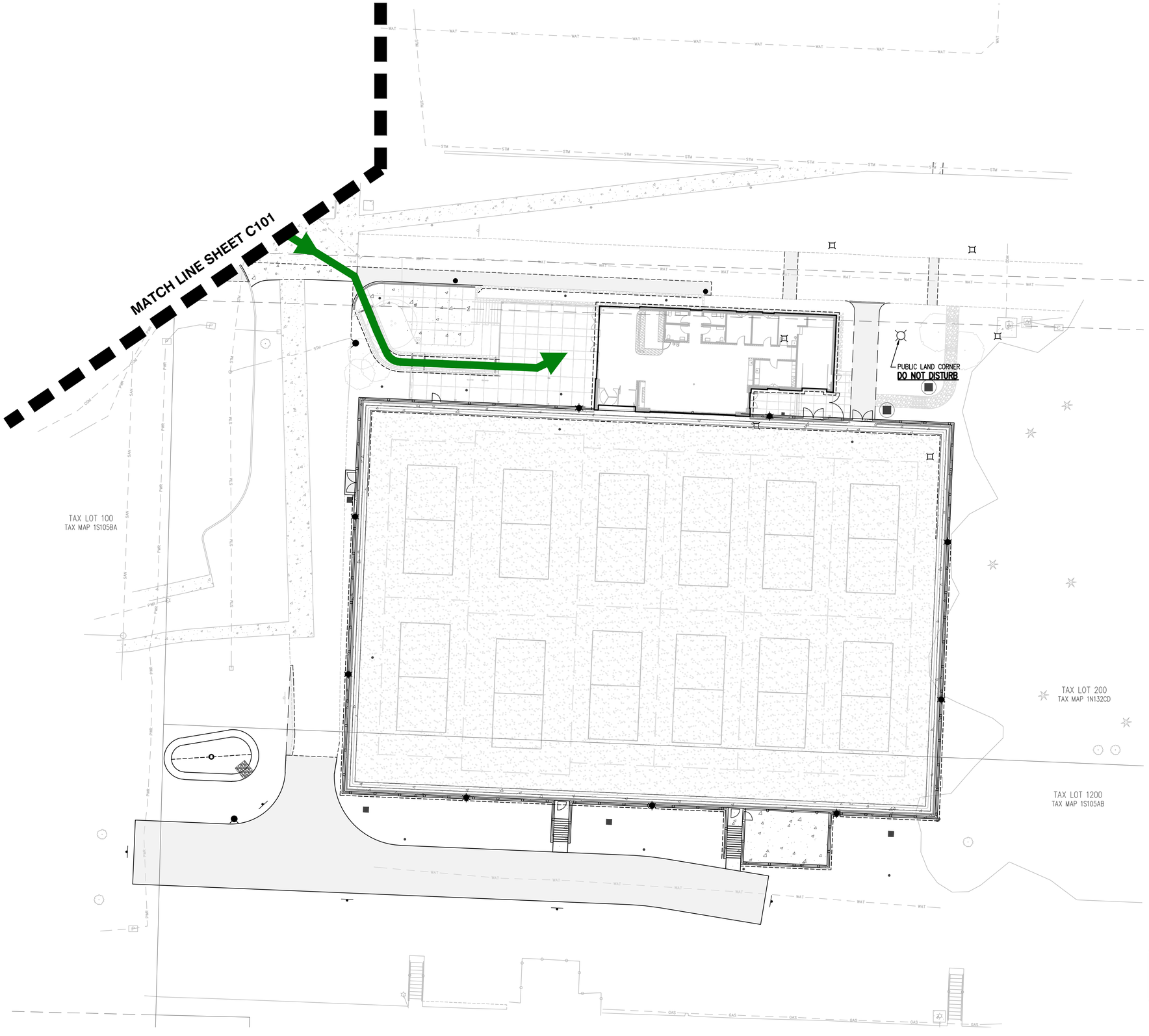

LEGEND

PEDESTRIAN CIRCULATION

PEDESTRIAN CROSSING

N

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PEDESTRIAN CIRCULATION PLAN

C102

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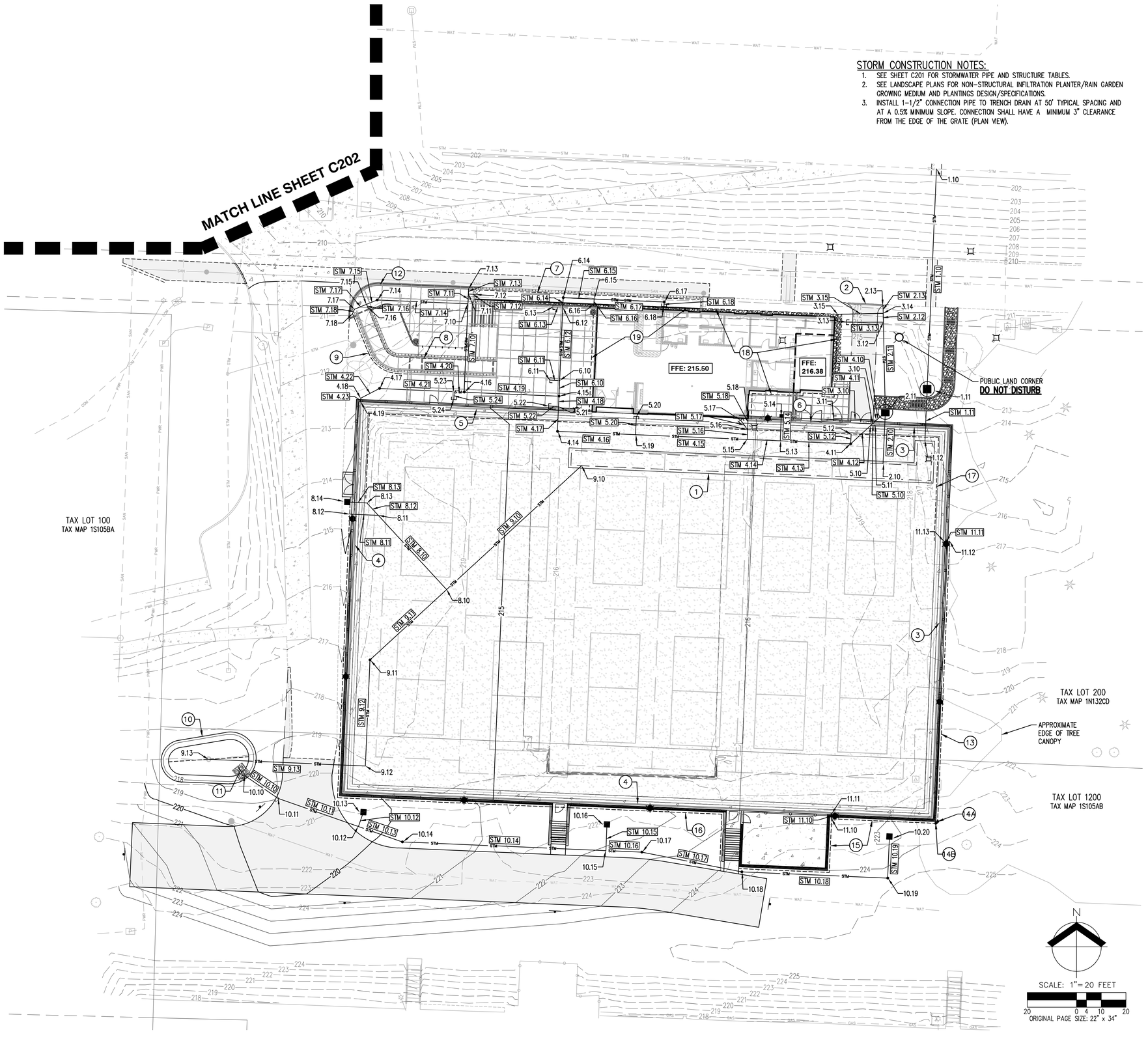

STORM CONSTRUCTION NOTES:

1. SEE SHEET C201 FOR STORMWATER PIPE AND STRUCTURE TABLES.
2. SEE LANDSCAPE PLANS FOR NON-STRUCTURAL INFILTRATION PLANTER/RAIN GARDEN GROWING MEDIUM AND PLANTINGS DESIGN/SPECIFICATIONS.
3. INSTALL 1-1/2" CONNECTION PIPE TO TRENCH DRAIN AT 50' TYPICAL SPACING AND AT A 0.5% MINIMUM SLOPE. CONNECTION SHALL HAVE A MINIMUM 3" CLEARANCE FROM THE EDGE OF THE GRATE (PLAN VIEW).

KEYED STORM NOTES:

1. INSTALL 72" PERFORATED CMP DETENTION SYSTEM WITH IMPERMEABLE LINER PER DETAILS 1-4/C505. COORDINATE WITH ENGINEER FOR QUANTITY AND FINAL LOCATION PRIOR TO ORDERING.
   IE OF DETENTION PIPE: 202.00' IE OF UNDER DRAIN PIPE: 201.50'
2. INSTALL 4" ACO K100 TRENCH DRAIN WITH IN-LINE CATCH BASIN AND DECORATIVE GRATE PER DETAIL 5/C502 AND MANUFACTURERS RECOMMENDATIONS.
   RIM: VARIES, MATCH FG L: 14.1 LF
   IE TRENCH (W): 210.27' IE TRENCH (E): 210.20'
3. INSTALL 4" ACO K100 TRENCH DRAIN WITH IN-LINE CATCH BASIN AND DECORATIVE GRATE PER DETAIL 5/C502 AND MANUFACTURERS RECOMMENDATIONS.
   RIM: VARIES, MATCH FG L: 186.8 LF
   IE TRENCH (S): 216.95' IE TRENCH (N): 216.00'
4. INSTALL 4" ACO K100 TRENCH DRAIN WITH IN-LINE CATCH BASIN AND DECORATIVE GRATE PER DETAIL 5/C502 AND MANUFACTURERS RECOMMENDATIONS.
   RIM: VARIES, MATCH FG L: 396.8 LF
   IE TRENCH (S): 216.95' IE TRENCH (N): 213.91'
5. INSTALL 4" ACO K100 TRENCH DRAIN WITH IN-LINE CATCH BASIN AND DECORATIVE GRATE PER DETAIL 5/C502 AND MANUFACTURERS RECOMMENDATIONS.
   RIM: VARIES, MATCH FG L: 93.7 LF
   IE TRENCH (E): 215.64' IE TRENCH (W): 214.71'
6. INSTALL 4" ACO K100 TRENCH DRAIN WITH IN-LINE CATCH BASIN AND DECORATIVE GRATE PER DETAIL 5/C502 AND MANUFACTURERS RECOMMENDATIONS.
   RIM: VARIES, MATCH FG L: 39.7 LF
   IE TRENCH (E): 216.54' IE TRENCH (W): 216.34'
7. INSTALL 4" PERFORATED PVC RETAINING WALL DRAIN PER DETAIL 3/C502.
   IE OUT: 209.219' L: ± 90 LF
   S: 0.005 FT/FT MIN
8. INSTALL 4" PERFORATED PVC RETAINING WALL DRAIN PER DETAIL 3/C502.
   IE OUT: 209.25' L: ± 60 LF
   S: 0.005 FT/FT MIN
9. INSTALL 4" PERFORATED PVC RETAINING WALL DRAIN PER DETAIL 3/C502.
   IE OUT: 209.25' L: ± 70 LF
   S: 0.005 FT/FT MIN
10. INSTALL NON-STRUCTURAL INFILTRATION PLANTER/RAIN GARDEN PER CWS DETAIL 725/C503. INSTALL ±32 LF OF 4" PERFORATED PVC PIPE PER CWS DETAIL 740/C503 WITH CONNECTION TO HOODED OVERFLOW TO CONVEYANCE.
    TOP OF PLANTER: 218.30' TOP OF GROWING MEDIUM: 217.30'
    OVERFLOW IE: 217.80' PERFORATED PIPE IE: 214.80'
11. INSTALL CLASS 50 RIPRAP OUTFALL PER DETAIL 7/C502.
12. INSTALL 4" ACO K100 TRENCH DRAIN WITH IN-LINE CATCH BASIN AND DECORATIVE GRATE PER DETAIL 5/C502 AND MANUFACTURERS RECOMMENDATIONS.
    RIM: VARIES, MATCH FG L: 53.6 LF
    IE TRENCH (W): 209.83' IE TRENCH (E): 209.57'
13. INSTALL 4" PERFORATED PVC RETAINING WALL DRAIN PER DETAIL 3/C502.
    IE OUT: 212.50' L: ± 115 LF
    S: 0.005 FT/FT MIN

14A. INSTALL STORMWATER CLEANOUT PER DETAIL 6/C502.
    RIM: 223.35' IE OUT (N): 213.07'

14B. INSTALL STORMWATER CLEANOUT PER DETAIL 6/C502.
    RIM: 223.45' IE OUT (W): 216.34'

15. INSTALL 4" PERFORATED PVC RETAINING WALL DRAIN PER DETAIL 3/C502.
    IE OUT: 216.12' L: ± 102 LF
    S: 0.005 FT/FT MIN
16. INSTALL 4" PERFORATED PVC RETAINING WALL DRAIN PER DETAIL 3/C502.
    IE OUT: 212.22' L: ± 298 LF
    S: 0.005 FT/FT MIN
17. INSTALL 4" PERFORATED PVC RETAINING WALL DRAIN PER DETAIL 3/C502.
    IE OUT: 206.72' L: ± 307 LF
    S: 0.005 FT/FT MIN
18. INSTALL 4" PERFORATED PVC FOOTING DRAIN PER DETAIL 2/C502.
    IE OUT: 290.00' (W) L: ± 134 LF
    S: 0.005 FT/FT MIN
19. INSTALL 4" PERFORATED PVC FOOTING DRAIN PER DETAIL 2/C502.
    IE OUT: 208.95' (E) L: ± 88 LF
    S: 0.005 FT/FT MIN
20. REPLACE EXISTING CATCH BASIN WITH 2 CARTRIDGE CATCH BASIN STORMFILTER AND REUSE EXISTING PIPE PER DETAIL 2/C504. CONTRACTOR TO VERIFY PIPE DIAMETER AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
    RIM: 200.15' (MATCH EXISTING)
    IE OUT: 197.75' (6" E)
21. REPLACE EXISTING CATCH BASIN WITH 1 CARTRIDGE CATCH BASIN STORMFILTER AND REUSE EXISTING PIPE PER DETAIL 3/C504. CONTRACTOR TO VERIFY PIPE DIAMETER AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
    RIM: 206.56' (MATCH EXISTING)
    IE OUT: 203.76' (8" E)

LEGEND

EXISTING GROUND CONTOUR (1 FT)	— — 214 — —
EXISTING GROUND CONTOUR (5 FT)	— — 215 — —
FINISHED GRADE CONTOUR (1 FT)	— — 214 — —
FINISHED GRADE CONTOUR (5 FT)	— — 215 — —

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STORMWATER MANAGEMENT PLAN

C200

STORMWATER PIPES TABLE

NAME	PIPE DIA./TYPE	LENGTH	SLOPE	IE START	IE END
STM 1.10	8" PVC	89.33	0.0381	201.20	197.80
STM 1.11	36" PVC	21.00	0.0095	201.50	201.30
STM 2.10	8" PVC	21.00	0.0512	203.08	202.00
STM 2.11	4" PVC	36.42	0.0500	208.40	206.58
STM 2.12	4" PVC	3.62	0.0500	208.58	208.40
STM 2.13	4" PVC	3.28	0.0500	208.74	208.58
STM 3.10	4" PVC	17.37	0.0200	205.96	205.62
STM 3.13	4" PVC	14.92	0.0200	208.70	208.40
STM 3.15	4" PVC	18.42	0.0200	208.95	208.58
STM 4.10	8" PVC	4.88	0.0150	205.45	205.38
STM 4.11	8" PVC	3.26	0.0150	205.50	205.45
STM 4.12	8" PVC	10.96	0.0150	205.66	205.50
STM 4.13	8" PVC	28.58	0.0150	206.09	205.66
STM 4.14	8" PVC	13.40	0.0150	206.29	206.09
STM 4.15	8" PVC	45.29	0.0150	206.97	206.29
STM 4.16	8" PVC	31.71	0.0150	207.45	206.97
STM 4.17	8" PVC	10.05	0.0150	207.60	207.45
STM 4.18	8" PVC	4.19	0.0150	207.66	207.60
STM 4.19	8" PVC	38.47	0.0150	208.24	207.66
STM 4.20	8" PVC	4.06	0.0150	208.30	208.24
STM 4.21	8" PVC	30.33	0.0150	208.75	208.30
STM 4.22	6" PVC	8.51	0.0150	208.96	208.84
STM 4.23	6" PVC	1.52	0.0230	209.00	208.96
STM 5.10	4" PVC	1.95	0.0200	205.70	205.66
STM 5.12	4" PVC	4.00	0.2229	206.72	205.83
STM 5.14	6" PVC	10.10	0.0200	206.38	206.17
STM 5.16	6" PVC	3.87	0.0200	206.45	206.38
STM 5.17	4" PVC	4.88	0.0200	206.63	206.54
STM 5.18	6" PVC	3.87	0.0200	206.53	206.45
STM 5.20	4" PVC	7.41	0.0200	207.29	207.14
STM 5.22	4" PVC	4.01	0.0200	207.84	207.76
STM 5.24	4" PVC	3.19	0.0200	208.53	208.46
STM 6.10	6" PVC	6.37	0.0100	207.81	207.74
STM 6.11	4" PVC	4.01	0.0200	207.97	207.89
STM 6.12	6" PVC	29.65	0.0100	208.10	207.81
STM 6.13	4" PVC	4.01	0.0200	208.27	208.19
STM 6.14	6" PVC	3.97	0.0100	208.14	208.10
STM 6.15	6" PVC	12.53	0.0100	208.27	208.14
STM 6.16	4" PVC	1.96	0.3298	209.00	208.35
STM 6.17	6" PVC	28.47	0.0100	208.56	208.27
STM 6.18	6" PVC	1.80	0.0200	208.59	208.56
STM 7.10	6" PVC	35.84	0.0100	208.68	208.32
STM 7.11	6" PVC	3.93	0.0100	208.72	208.68
STM 7.12	4" PVC	3.07	0.1357	209.22	208.80
STM 7.13	6" PVC	2.25	0.0100	208.74	208.72
STM 7.14	4" PVC	36.82	0.0100	209.13	208.76
STM 7.15	4" PVC	4.69	0.0100	209.18	209.13
STM 7.16	4" PVC	1.42	0.0508	209.25	209.18
STM 7.17	4" PVC	5.25	0.0100	209.23	209.18
STM 7.18	4" PVC	2.00	0.0100	209.25	209.23
STM 8.10	6" PVC	40.87	0.1720	210.52	203.49
STM 8.11	4" PVC	11.64	0.0344	211.00	210.60
STM 8.12	6" PVC	6.88	0.1000	211.20	210.52
STM 8.13	6" PVC	7.96	0.1000	212.00	211.20
STM 9.10	6" PVC	74.31	0.0200	203.49	202.00
STM 9.11	6" PVC	42.13	0.0200	204.33	203.49
STM 9.12	6" PVC	43.07	0.0200	205.19	204.33
STM 9.13	6" PVC	63.66	0.0200	206.46	205.19
STM 10.10	8" PVC	16.65	0.0058	217.90	217.80
STM 10.11	8" PVC	34.52	0.0058	218.10	217.90

STORMWATER PIPES TABLE

NAME	PIPE DIA./TYPE	LENGTH	SLOPE	IE START	IE END
STM 10.12	6" PVC	5.13	0.0200	218.28	218.18
STM 10.13	8" PVC	18.90	0.0058	218.21	218.10
STM 10.14	6" PVC	82.56	0.0100	219.12	218.29
STM 10.15	6" PVC	9.51	0.0200	219.31	219.12
STM 10.16	6" PVC	14.61	0.0100	219.26	219.12
STM 10.17	6" PVC	41.26	0.0100	219.67	219.26
STM 10.18	6" PVC	59.21	0.0100	220.27	219.68
STM 10.19	6" PVC	15.75	0.0150	220.50	220.27
STM 11.10	4" PVC	2.25	0.0356	216.12	216.04
STM 11.11	4" PVC	2.25	0.3111	212.50	211.80

STORMWATER STRUCTURES TABLE

CB	TYPE	IE IN	IE OUT	DS STRUCTURE
1.10	STM WYE	197.80		
1.11	STM 72" FCMH	201.30	201.20	1.10
1.12	STM WYE		201.50	1.11
2.10	STM WYE	202.00		
2.11	STM 72" WQMH	206.58 205.38	203.08	2.10
2.13	TRENCH DRAIN POC		208.74	3.14
3.10	STM WYE	205.45 205.62	205.45	2.11
3.11	STM ROOF DRAIN POC		205.96	3.10
3.12	STM WYE	208.40 208.40	208.40	2.11
3.13	STM ROOF DRAIN POC		208.70	3.12
3.14	STM WYE	208.58 208.58	208.58	3.12
3.15	STM POC		208.95	3.14
4.11	STM CO	205.66 205.83	205.66	5.10
4.14	STM CO	207.45	207.45	5.19
4.15	STM CO	207.74 207.66	207.66	5.21
4.16	STM CO	208.24 208.32	208.24	4.15
4.17	STM CO	208.84	208.75	5.23
4.18	STM 45° BEND	208.96	208.96	4.17
4.19	TRENCH DRAIN POC		209.00	4.18
5.10	STM WYE	205.50 205.66	205.50	3.10
5.11	TRENCH DRAIN POC		205.70	5.10
5.12	STM POC		206.72	4.11
5.13	STM WYE	206.09 206.17	206.09	4.11
5.14	STM AD		206.38	5.13
5.15	STM WYE	206.29 206.38	206.29	5.13
5.16	STM WYE	206.45 206.54	206.45	5.15
5.17	STM ROOF DRAIN POC		206.63	5.16
5.18	TRENCH DRAIN POC		206.53	5.16
5.19	STM WYE	206.97 207.14	206.97	5.15
5.20	STM ROOF DRAIN POC		207.29	5.19
5.21	STM WYE	207.60 207.76	207.60	4.14
5.22	STM ROOF DRAIN POC		207.84	5.21
5.23	STM WYE	208.30 208.46	208.30	4.16
5.24	STM ROOF DRAIN POC		208.53	5.23
6.10	STM WYE	207.81 207.89	207.81	4.15
6.11	STM ROOF DRAIN POC		207.97	6.10
6.12	STM WYE	208.19 208.10	208.10	6.10
6.13	STM ROOF DRAIN POC		208.27	6.12
6.14	STM CO	208.14	208.14	6.12
6.15	STM WYE	208.27 208.35	208.27	6.14
6.16	STM POC		209.00	6.15
6.17	STM CO	208.56	208.56	6.15
6.18	STM ROOF DRAIN POC		208.59	6.17
7.10	STM WYE	208.68 208.76	208.68	4.16
7.11	STM WYE	208.72 208.80	208.72	7.10
7.12	STM POC		209.22	7.11
7.13	TRENCH DRAIN POC		208.74	7.11
7.14	STM CO	209.13	209.13	7.10
7.15	STM WYE	209.18 209.18	209.18	7.14
7.16	STM POC		209.25	7.15
7.17	STM 45° BEND	209.23	209.23	7.15
7.18	STM POC		209.25	7.17
8.10	STM WYE	203.49 203.49	203.49	9.10

STORMWATER STRUCTURES TABLE

CB	TYPE	IE IN	IE OUT	DS STRUCTURE
8.11	STM WYE	210.60 210.52	210.52	8.10
8.12	STM POC		211.00	8.11
8.13	STM 45° BEND	211.20	211.20	8.11
8.14	STM LYNCH CB		212.00	8.13
9.10	STM WYE	202.00		
9.11	STM CO	204.33	204.33	8.10
9.12	STM WYE	205.19	205.19	9.11
9.13	STM POC		206.46	9.12
10.10	OUTFALL	217.80		
10.11	STM 11.25° BEND	217.90	217.90	10.10
10.12	STM WYE	218.10 218.18	218.10	10.11
10.13	STM LYNCH CB		218.28	10.12
10.14	STM CO	218.29	218.21	10.12
10.15	STM WYE	219.12 219.12	219.12	10.14
10.16	STM LYNCH CB		219.31	10.15
10.17	STM CO	219.26	219.26	10.15
10.18	STM CO	219.68	219.67	10.17
10.19	STM CO	220.27	220.27	10.18
10.20	STM LYNCH CB		220.50	10.19
11.10	STM POC		216.12	11.11
11.11	TRENCH DRAIN POC	216.04		
11.12	STM POC		212.50	11.13
11.13	TRENCH DRAIN POC	211.80		

LEGEND:

FCMH: FLOW CONTROL MANHOLE
WQMH: WATER QUALITY MANHOLE
CB: CATCH BASIN
CO: CLEANOUT
WYE: "WYE" CONNECTION
AD: AREA DRAIN
POC: POINT OF CONNECTION

NOTES:

1. FOR AREA DRAIN DETAIL SEE 1/C502.
2. FOR CLEANOUT DETAIL SEE 6/C502.
3. FOR LYNCH CATCH BASIN DETAIL SEE 8/C502.

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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02/10/2026
DRAWN BY: MNH

BID SET

REVISIONS:

REGISTERED PROFESSIONAL ENGINEER
97708PE
Austin Cole 2026.02.10 15:09:00-08'00'
OREGON
SEPTEMBER 14, 2021
AUSTIN MORGAN COLE
RENEWS: DECEMBER 31, 2027

STORMWATER MANAGEMENT PLAN

C201

#KEYED STORMWATER NOTES

1. INSTALL 72" PERFORATED CMP DETENTION SYSTEM WITH IMPERMEABLE LINER PER DETAILS 1-4/C505. COORDINATE WITH ENGINEER FOR QUANTITY AND FINAL LOCATION PRIOR TO ORDERING.
   IE OF DETENTION PIPE: 202.00' IE OF UNDER DRAIN PIPE: 201.50'
2. INSTALL 4" ACO K100 TRENCH DRAIN WITH IN-LINE CATCH BASIN AND DECORATIVE GRATE PER DETAIL 5/C502 AND MANUFACTURERS RECOMMENDATIONS.
   RIM: VARIES, MATCH FG L: 14.1 LF
   IE TRENCH (W): 210.27' IE TRENCH (E): 210.20'
3. INSTALL 4" ACO K100 TRENCH DRAIN WITH IN-LINE CATCH BASIN AND DECORATIVE GRATE PER DETAIL 5/C502 AND MANUFACTURERS RECOMMENDATIONS.
   RIM: VARIES, MATCH FG L: 186.8 LF
   IE TRENCH (S): 216.95' IE TRENCH (N): 216.00'
4. INSTALL 4" ACO K100 TRENCH DRAIN WITH IN-LINE CATCH BASIN AND DECORATIVE GRATE PER DETAIL 5/C502 AND MANUFACTURERS RECOMMENDATIONS.
   RIM: VARIES, MATCH FG L: 396.8 LF
   IE TRENCH (S): 216.95' IE TRENCH (N): 213.91'
5. INSTALL 4" ACO K100 TRENCH DRAIN WITH IN-LINE CATCH BASIN AND DECORATIVE GRATE PER DETAIL 5/C502 AND MANUFACTURERS RECOMMENDATIONS.
   RIM: VARIES, MATCH FG L: 93.7 LF
   IE TRENCH (E): 215.64' IE TRENCH (W): 214.71'
6. INSTALL 4" ACO K100 TRENCH DRAIN WITH IN-LINE CATCH BASIN AND DECORATIVE GRATE PER DETAIL 5/C502 AND MANUFACTURERS RECOMMENDATIONS.
   RIM: VARIES, MATCH FG L: 39.7 LF
   IE TRENCH (E): 216.54' IE TRENCH (W): 216.34'
7. INSTALL 4" PERFORATED PVC RETAINING WALL DRAIN PER DETAIL 3/C502.
   IE OUT: 209.219' L: ± 90 LF
   S: 0.005 FT/FT MIN
8. INSTALL 4" PERFORATED PVC RETAINING WALL DRAIN PER DETAIL 3/C502.
   IE OUT: 209.25' L: ± 60 LF
   S: 0.005 FT/FT MIN
9. INSTALL 4" PERFORATED PVC RETAINING WALL DRAIN PER DETAIL 3/C502.
   IE OUT: 209.25' L: ± 70 LF
   S: 0.005 FT/FT MIN
10. INSTALL NON-STRUCTURAL INFILTRATION PLANTER/RAIN GARDEN PER CWS DETAIL 725/C503. INSTALL ±32 LF OF 4" PERFORATED PVC PIPE PER CWS DETAIL 740/C503 WITH CONNECTION TO HOODED OVERFLOW TO CONVEYANCE.
    TOP OF PLANTER: 218.30' TOP OF GROWING MEDIUM: 217.30'
    OVERFLOW IE: 217.80' PERFORATED PIPE IE: 214.80'
11. INSTALL CLASS 50 RIPRAP OUTFALL PER DETAIL 7/C502.
12. INSTALL 4" ACO K100 TRENCH DRAIN WITH IN-LINE CATCH BASIN AND DECORATIVE GRATE PER DETAIL 5/C502 AND MANUFACTURERS RECOMMENDATIONS.
    RIM: VARIES, MATCH FG L: 53.6 LF
    IE TRENCH (W): 209.83' IE TRENCH (E): 209.57'
13. INSTALL 4" PERFORATED PVC RETAINING WALL DRAIN PER DETAIL 3/C502.
    IE OUT: 212.50' L: ± 115 LF
    S: 0.005 FT/FT MIN

14A. INSTALL STORMWATER CLEANOUT PER DETAIL 6/C502.
    RIM: 223.35' IE OUT (N): 213.07'

14B. INSTALL STORMWATER CLEANOUT PER DETAIL 6/C502.
    RIM: 223.45' IE OUT (W): 216.34'

15. INSTALL 4" PERFORATED PVC RETAINING WALL DRAIN PER DETAIL 3/C502.
    IE OUT: 216.12' L: ± 102 LF
    S: 0.005 FT/FT MIN
16. INSTALL 4" PERFORATED PVC RETAINING WALL DRAIN PER DETAIL 3/C502.
    IE OUT: 212.22' L: ± 298 LF
    S: 0.005 FT/FT MIN
17. INSTALL 4" PERFORATED PVC RETAINING WALL DRAIN PER DETAIL 3/C502.
    IE OUT: 206.72' L: ± 307 LF
    S: 0.005 FT/FT MIN
18. INSTALL 4" PERFORATED PVC FOOTING DRAIN PER DETAIL 2/C502.
    IE OUT: 290.00' (W) L: ± 134 LF
    S: 0.005 FT/FT MIN
19. INSTALL 4" PERFORATED PVC FOOTING DRAIN PER DETAIL 2/C502.
    IE OUT: 208.95' (E) L: ± 88 LF
    S: 0.005 FT/FT MIN
20. REPLACE EXISTING CATCH BASIN WITH 2 CARTRIDGE CATCH BASIN STORMFILTER AND REUSE EXISTING PIPE PER DETAIL 2/C504. CONTRACTOR TO VERIFY PIPE DIAMETER AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
    RIM: 200.15' (MATCH EXISTING)
    IE OUT: 197.75' (6" E)
21. REPLACE EXISTING CATCH BASIN WITH 1 CARTRIDGE CATCH BASIN STORMFILTER AND REUSE EXISTING PIPE PER DETAIL 3/C504. CONTRACTOR TO VERIFY PIPE DIAMETER AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
    RIM: 206.56' (MATCH EXISTING)
    IE OUT: 203.76' (8" E)

N

SCALE: 1" = 20 FEET

20 0 4 10 20

ORIGINAL PAGE SIZE: 22" x 34"

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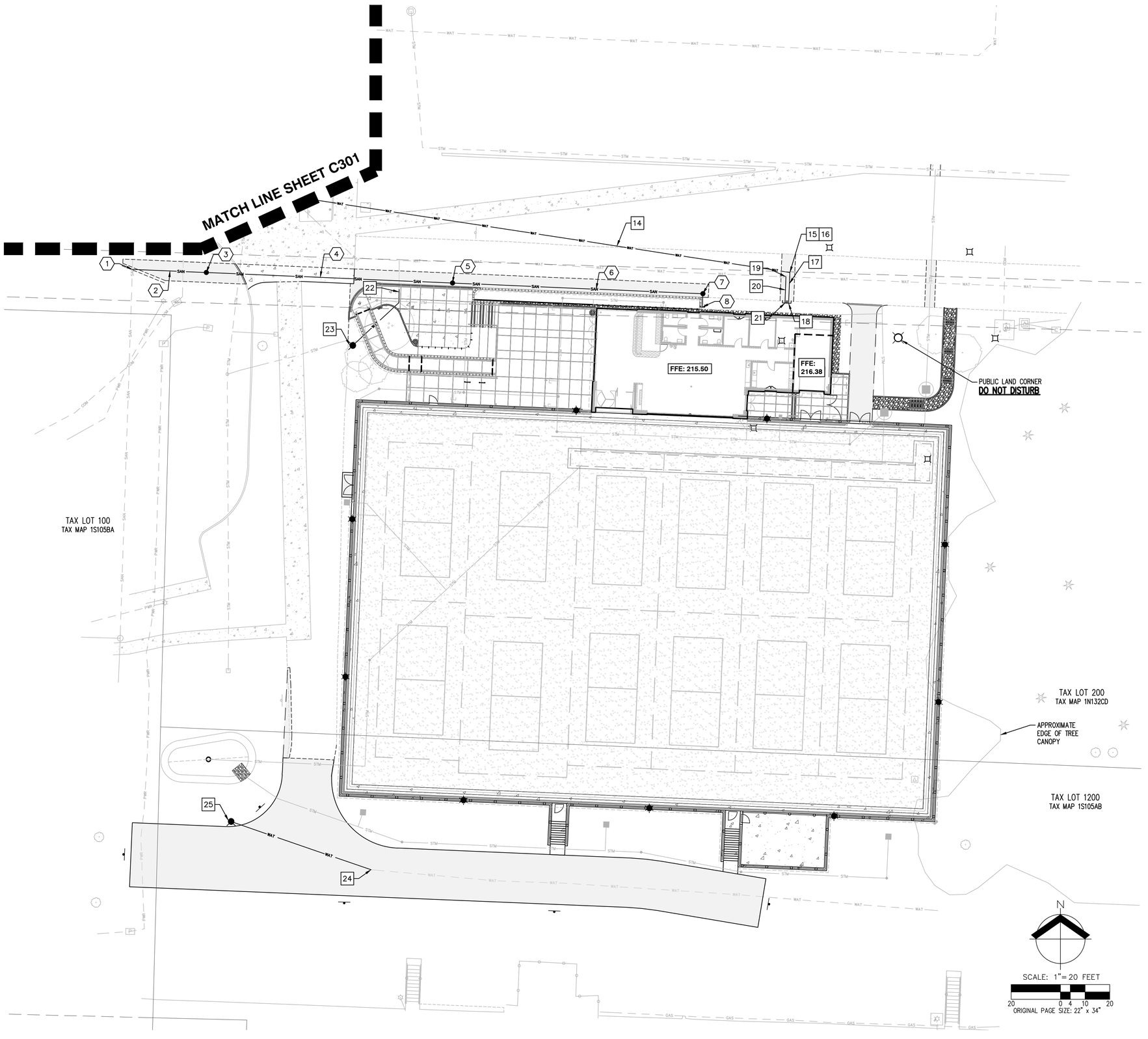
97708PE
Austin Cole 2026.02.10 15:09:02-08'00'
OREGON
SEPTEMBER 8, 2017
AUSTIN MORGAN COLE
RENEWS: DECEMBER 31, 2027

STORMWATER MANAGEMENT PLAN

C202



KEYED WATER NOTES:

1. 16"X2" HOT TAP EXISTING 12" WATER MAIN WITH 2" SERVICE CONNECTION PER CITY DETAIL 660-5/C506.
2. 2" WATER SERVICE TRENCH, BACKFILL, AND RESTORATION PER CITY DETAIL 620-1/C506. 2" GRIND AND INLAY PER WASHINGTON COUNTY STANDARDS.
3. INSTALL 5.3 LF OF 2" SCH 80 PVC DOMESTIC WATER SERVICE.
4. INSTALL 2" DOUBLE CHECK VALVE ASSEMBLY PER CITY DETAIL 690-3B/C506.
5. INSTALL 3.5 LF OF 2" SCH 80 PVC DOMESTIC WATER SERVICE.
6. INSTALL 2X2X2 TEE.
7. INSTALL 192.9 LF OF 2" SCH 80 PVC DOMESTIC WATER SERVICE.
8. INSTALL 45° BEND.
9. INSTALL 16.7 LF OF 2" SCH 80 PVC DOMESTIC WATER SERVICE.
10. INSTALL 2X2.5X2.5 TEE AND CONNECT TO EXISTING WATER SERVICE.
11. INSTALL 12.8 LF OF 2" SCH 80 PVC DOMESTIC WATER SERVICE.
12. INSTALL 11.25° BEND (ACTUAL ANGLE 6.5°).
13. BEGIN HORIZONTAL DIRECTIONAL DRILLING. CONNECT 2" SCH 80 PVC TO 2" IPS HDPE SDR9 WITH TRANSITION COUPLING FOR CONTINUATION.
14. INSTALL 662.3 LF OF 2" IPS HDPE SDR9 VIA HORIZONTAL DIRECTIONAL DRILLING
15. END HORIZONTAL DIRECTIONAL DRILLING. CONNECT 2" IPS HDPE SDR9 TO 2" SCH 80 PVC WITH TRANSITION COUPLING FOR CONTINUATION.
16. INSTALL 90° AND 11.25° BENDS (ACTUAL ANGLE: 83.7°).
17. INSTALL 12.5' OF 2" SCH 80 PVC DOMESTIC WATER SERVICE.
18. PROVIDE 2" STUB FOR CONNECTION TO BUILDING DOMESTIC WATER SERVICE. CONTRACTOR SHALL VERIFY LOCATION OF SERVICE WITH PLUMBING CONTRACTOR.
19. INSTALL TAPPING SLEEVE AND CONNECT 4" SERVICE TO EXISTING 8" FIRE WATER MAIN PER CITY DETAIL 630-2. INSTALL GATE VALVE AND COVER PER CITY DETAIL 640-2/C506.CONTRACTOR SHALL VERIFY LOCATION OF SERVICE WITH FIRE SPRINKLER CONTRACTOR.
20. INSTALL 10.7' OF 4" DIP FIRE WATER SERVICE WITH ALL RESTRAINED JOINTS.
21. PROVIDE 4" STUB FOR CONNECTION TO BUILDING FIRE WATER SERVICE. CONTRACTOR SHALL VERIFY LOCATION OF SERVICE WITH FIRE SPRINKLER CONTRACTOR.
22. CONNECT TO EXISTING 6" SERVICE AND INSTALL 4.3 LF OF 6" DIP WITH 45° BEND (ACTUAL ANGLE: 47°) AND ALL RESTRAINED JOINTS.
23. INSTALL FIRE HYDRANT ASSEMBLY WITH 25.6 LF OF 6" DIP AND ALL RESTRAINED JOINTS PER CITY DETAIL 650-2/C506.
24. CONNECT TO EXISTING 8" FIRE WATER MAIN AND INSTALL 11.25° BEND (ACTUAL ANGLE: 13.9°).
25. INSTALL FIRE HYDRANT ASSEMBLY WITH 60.0 LF OF 8" DIP AND ALL RESTRAINED JOINTS PER CITY DETAIL 650-2/C506.

KEYED SANITARY SEWER NOTES:

1. CONNECT 4" PVC TO EXISTING 6" CONCRETE SANITARY SEWER MAIN WITH WYE.
   IE (EX 6"): ±205.4'
   IE (4"): ±205.5'
2. INSTALL 4" D3034 PVC
   L: 31.5 LF
   S: 0.010 FT/FT
3. INSTALL CLEANOUT PER DETAIL 6/C502.
   RIM: ±212.0' (MATCH FG)
   IE (4"): 205.84'
4. INSTALL 4" D3034 PVC
   L: 100.0 LF
   S: 0.011 FT/FT
5. INSTALL CLEANOUT PER DETAIL 6/C502.
   RIM: ±210.5' (MATCH FG)
   IE (4"): 206.90'
6. INSTALL 4" D3034 PVC
   L: 100.0 LF
   S: 0.011 FT/FT
7. INSTALL CLEANOUT PER DETAIL 6/C502.
   RIM: ±210.4' (MATCH FG)
   IE (4"): 207.97'
8. INSTALL 4" D3034 PVC AND CONNECT TO BUILDING SANITARY SERVICE. CONTRACTOR TO VERIFY LOCATION OF CONNECTION WITH PLUMBING CONTRACTOR.
   L: 2.5 LF
   S: 0.011 FT/FT
   IE STUB (4"): 208.00

LEGEND

EXISTING GROUND CONTOUR (1 FT)	— — 214 — —
EXISTING GROUND CONTOUR (5 FT)	— — 215 — —
FINISHED GRADE CONTOUR (1 FT)	— — 214 — —
FINISHED GRADE CONTOUR (5 FT)	— — 215 — —

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REVISIONS:

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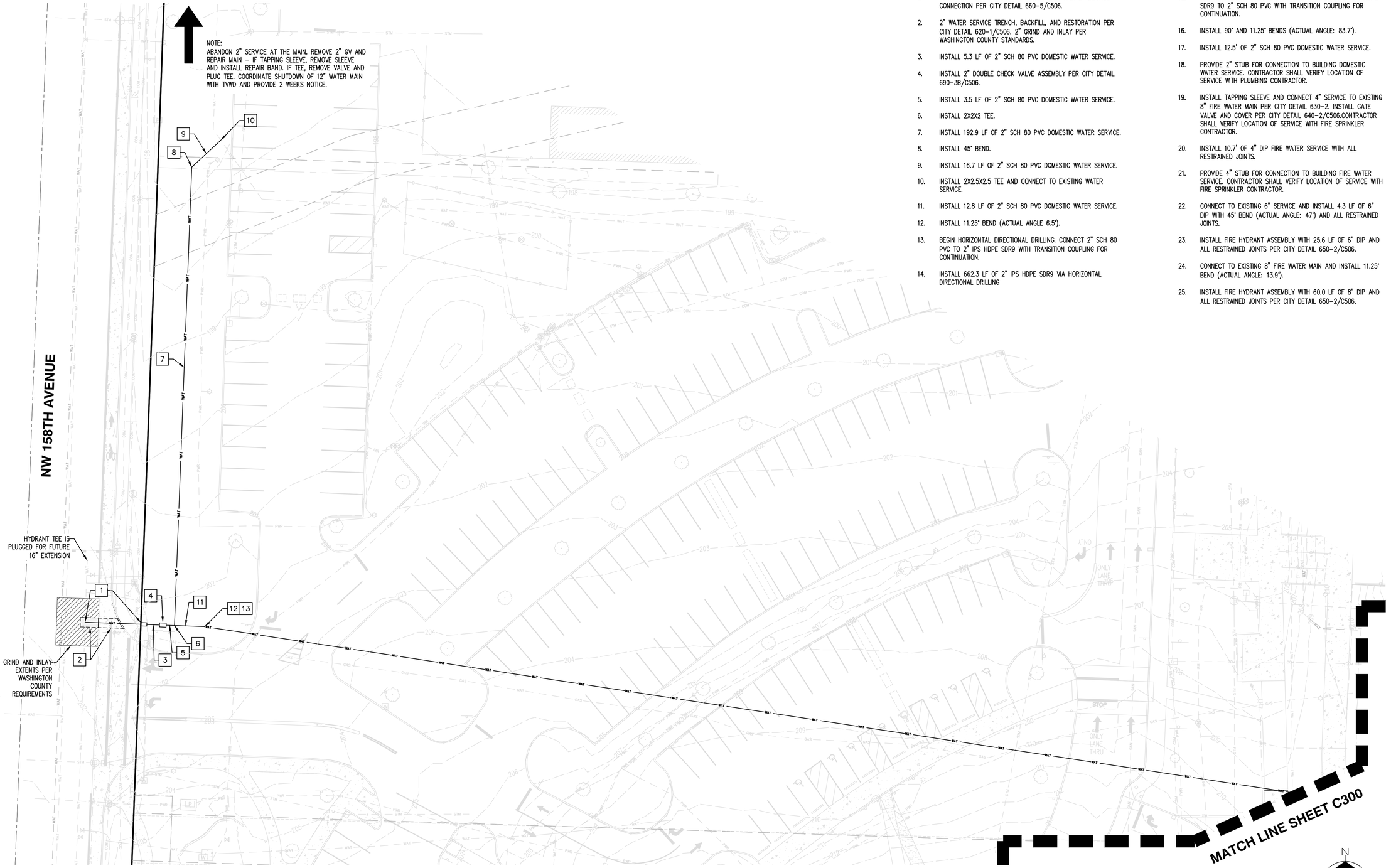
97708PE
Austin Cole 2026.02.10 15:09:03-08'00'
OREGON
SEPTEMBER 14, 2027
AUSTIN MORGAN COLE
RENEWS: DECEMBER 31, 2027

WATER & SANITARY SEWER PLAN

C300



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SCALE: 1" = 20 FEET
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ORIGINAL PAGE SIZE: 22" x 34"

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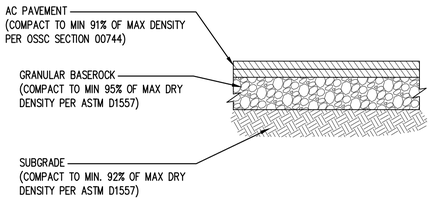
WATER & SANITARY SEWER PLAN

C301

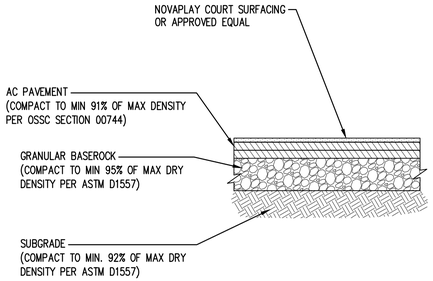


PAVEMENT & BASEROCK SECTIONS:

3" AC PAVEMENT (TWO LIFTS)
8" OF 1"-0 GRANULAR BASEROCK PER GEOTECH RECOMMENDATION

NOTES:
1. DESIGN SUBGRADES SHALL BE COMPACTED AND PROOF-ROLLED PRIOR TO PLACEMENT OF BASEROCK. IF SUBGRADE PASSES PROOF-ROLL BUT FAILS DENSITY TESTING, INSTALL MIN. 4.5 OZ WOVEN GEOTEXTILE FABRIC ON SUBGRADE PRIOR TO PLACEMENT OF BASEROCK. FAILURE OF PROOF-ROLL WILL REQUIRE OVEREXCAVATION OR REPAIR AS DIRECTED BY PROJECT GEOTECHNICAL ENGINEER OR OWNER'S REPRESENTATIVE.
2. IF SUBGRADE FAILS THE PROOF-ROLL, SUBGRADE SHALL BE OVEREXCAVATED TO FIRM AND UNYIELDING SOIL AND BACKFILLED WITH COMPACTED BASEROCK OVER MIN. 8.0-OZ. WOVEN FABRIC AS REQUIRED TO ALLOW COMPACTION OF UPPER (DESIGN) BASEROCK SECTION AND TO MAINTAIN STRUCTURAL INTEGRITY OF SUBGRADE SOILS. TYPICAL MINIMUM OVEREXCAVATION REQUIRED IS 12-INCHES. NO RUBBER TIRED EQUIPMENT ALLOWED ON SUBGRADE FOLLOWING OVEREXCAVATION.
3. PASSING PROOF-ROLL ON BASEROCK IS ALSO REQUIRED IMMEDIATELY PRIOR TO PAVING.
4. CONTRACTOR SHALL CONFORM TO ALL RECOMMENDATIONS IN GEOTECHNICAL REPORT.
5. THE EXISTING BASE ROCK SECTIONS MAY NOT CONFORM TO THE REQUIRED PAVEMENT AND BASE ROCK SECTIONS UPON COMPLETION OF GRADING. CONTRACTOR SHALL POTHOLE WITHIN THE AREA SHOWN AND VERIFY ROCK SECTION THICKNESS. IF THE EXISTING BASE ROCK SECTION DOES NOT MEET THE REQUIRED THICKNESS THEN IT SHALL BE REPLACED AND COMPACTED TO MEET THE MINIMUM BASE ROCK AND PAVEMENT SECTIONS.

AC PAVEMENT SECTION
NTS
1



PAVEMENT & BASEROCK SECTIONS:

3" AC PAVEMENT (TWO LIFTS, 1/2", LEVEL 2)
8" OF 1"-0 GRANULAR BASEROCK PER GEOTECH RECOMMENDATION

NOTES:
1. DESIGN SUBGRADES SHALL BE COMPACTED AND PROOF-ROLLED PRIOR TO PLACEMENT OF BASEROCK. IF SUBGRADE PASSES PROOF-ROLL BUT FAILS DENSITY TESTING, INSTALL MIN. 4.5 OZ WOVEN GEOTEXTILE FABRIC ON SUBGRADE PRIOR TO PLACEMENT OF BASEROCK. FAILURE OF PROOF-ROLL WILL REQUIRE OVEREXCAVATION OR REPAIR AS DIRECTED BY PROJECT GEOTECHNICAL ENGINEER OR OWNER'S REPRESENTATIVE.
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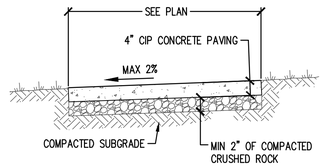
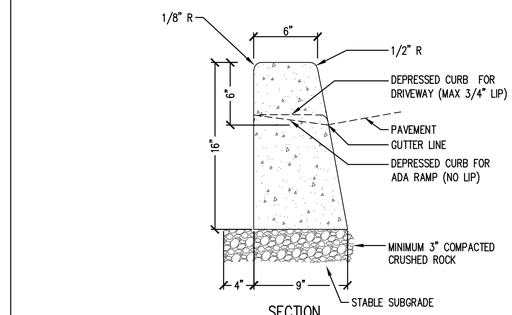
COURT PAVEMENT SECTION
NTS
2

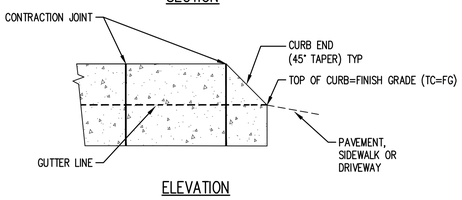


NOTES:
1. CONCRETE SHALL BE 3300 PSI AT 28 DAYS.
2. CONTRACTION JOINTS ARE REQUIRED AT 5-FT INTERVALS WITH EXPANSION JOINT (MIN. 1/2" THICK PREMOLDED BITUMINOUS MATERIAL) SPACING NOT TO EXCEED 45 FEET AND PLACED AT SIDES OF DRIVEWAY APPROACHES, UTILITY VAULTS, AND WHEELCHAIR RAMPS.
3. SIDEWALKS 10-FT. AND WIDER SHALL HAVE LONGITUDINAL CONTRACTION JOINT(S) AT 5-FT ON CENTER.
4. CONCRETE DEPTH FOR STANDARD SIDEWALKS SHALL BE 4" MINIMUM.
5. SUBMIT JOINT LAYOUT FOR REVIEW AND APPROVAL PRIOR TO PLACING CONCRETE.
6. CURBS TO CURE A MINIMUM OF 7 DAYS PRIOR TO PLACING FINAL BASEROCK AND PAVING.

PRIVATE SIDEWALK
NTS
3



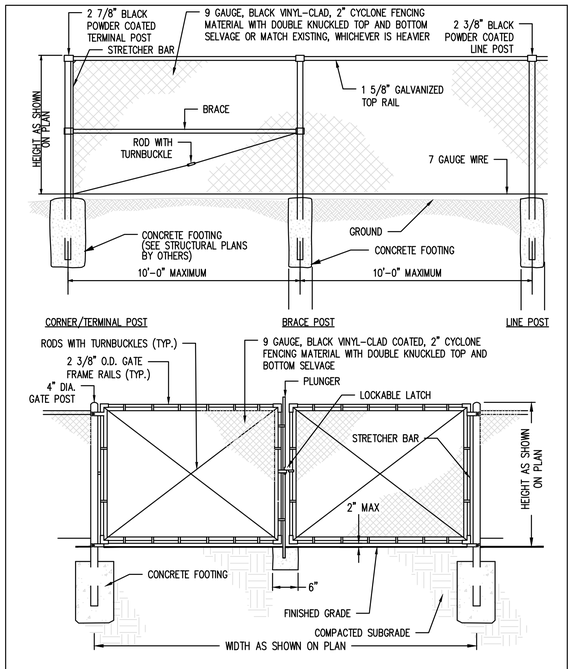
SECTION



ELEVATION

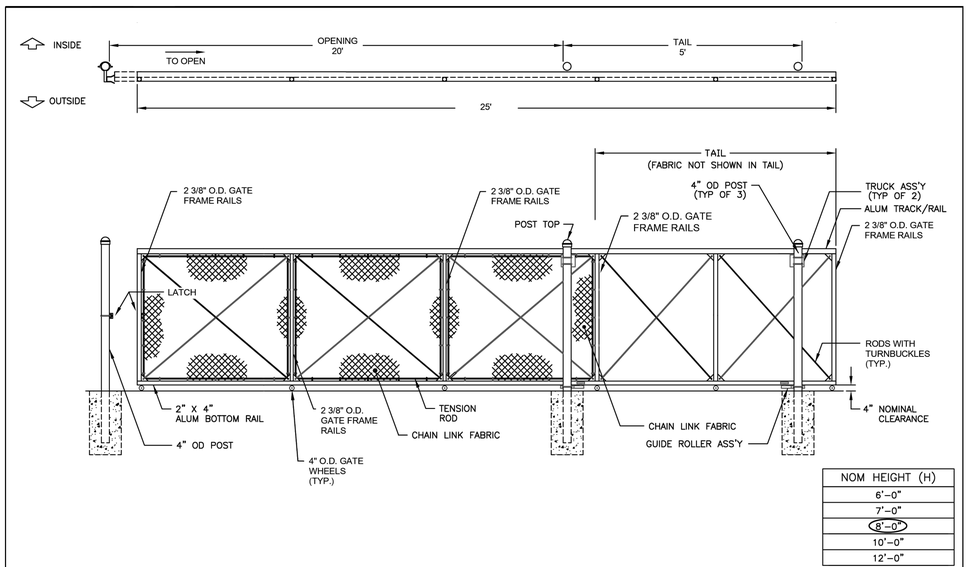
NOTES:
1. CONCRETE SHALL BE 3300 PSI AT 28 DAYS.
2. CONTRACTION JOINTS ARE REQUIRED AT 15-FT INTERVALS AND AT INLET STRUCTURES AND WHEELCHAIR RAMPS. DEPTH OF JOINTS SHALL BE AT LEAST 1-1/2".
3. CONSTRUCT EXPANSION JOINTS (MIN. 1/2" THICK PREMOLDED BITUMINOUS MATERIAL) AT MAXIMUM 200 FEET SPACING AND AT SIDES OF DRIVEWAY APPROACHES AND POINTS OF TANGENCY.
4. CURBS TO CURE A MINIMUM OF 7 DAYS PRIOR TO PLACING FINAL BASEROCK AND PAVING.

TYPE C CURB
NTS
4



NOTES:
1. DESIGN OF POSTS, FRAMES, AND FOOTINGS ARE BY STRUCTURAL ENGINEER.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL FENCING AND GATES FOR REVIEW PRIOR TO ORDERING MATERIALS.

CHAIN LINK FENCE AND GATE DETAIL (8' TALL)
NTS
5

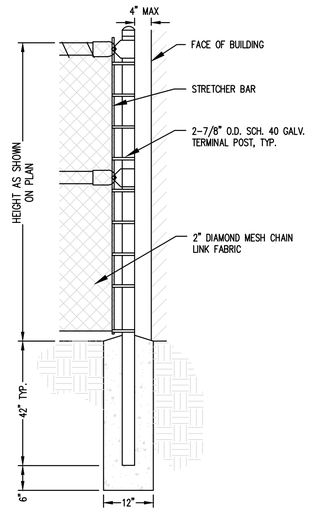


NOM HEIGHT (H)
6'-0"
7'-0"
8'-0"
10'-0"
12'-0"

OPENING
6'-0" THROUGH 30'-0"

NOTES:
1. DESIGN OF POSTS, FRAMES, AND FOOTINGS ARE BY STRUCTURAL ENGINEER.
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL FENCING AND GATES FOR REVIEW PRIOR TO ORDERING MATERIALS.

CHAIN LINK CANTILEVERED ROLLER GATE DETAIL
NTS
6



FENCE AT BUILDING

NOTES:
1. REFER TO DETAIL 5/C500 FOR ADDITIONAL INFORMATION REGARDING TYPICAL CHAINLINK FENCE.
2. DESIGN OF POSTS, FRAMES, AND FOOTINGS ARE BY STRUCTURAL ENGINEER.
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL FENCING PRIOR TO INSTALLATION.

CHAINLINK FENCE AT BUILDING/EXISTING FENCE TO NEW FENCE DETAIL
NTS
7

FWD//
FIELDWORK DESIGN & ARCHITECTURE
1752 SE HAWTHORNE BLVD
PORTLAND, OREGON 97214
503.360.1437

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AKS ENGINEERING & FORESTRY, LLC
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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02/10/2026
DRAWN BY: MNH

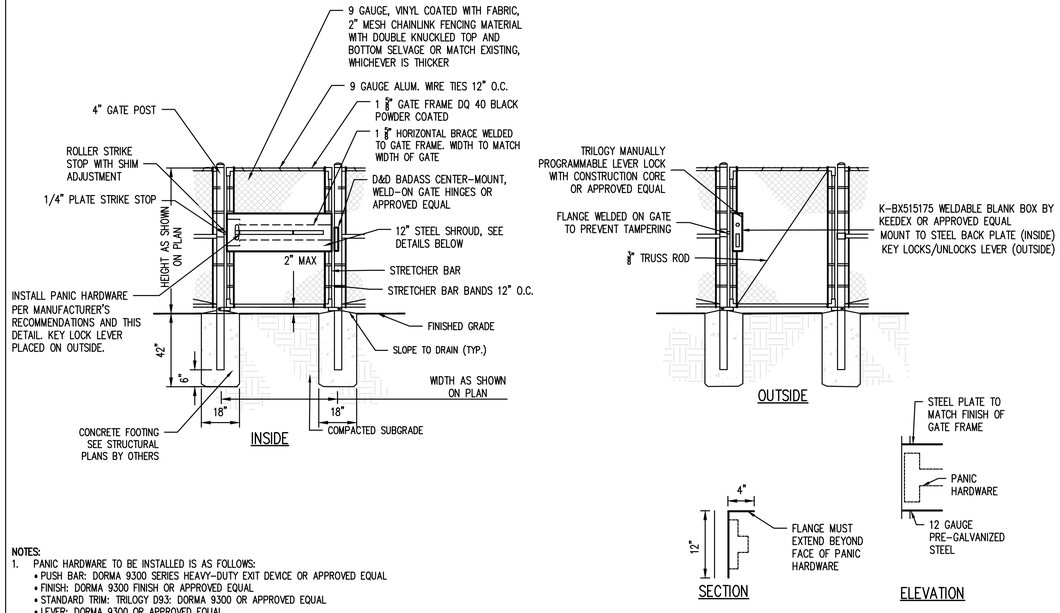
BID SET

REVISIONS:

REGISTERED PROFESSIONAL ENGINEER
97708PE
Austin Cole 2026.02.10 15:09:07-08'00'
OREGON
SEPTEMBER 9, 2014
AUSTIN MORGAN COLE
RENEWS: DECEMBER 31, 2027

SITE DETAILS

C500

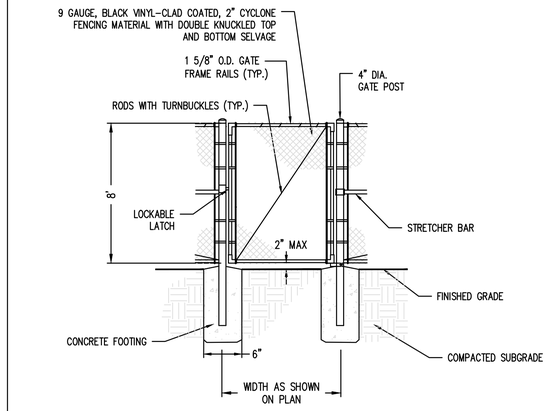


STEEL SHROUD

NOTES:
1. PANIC HARDWARE TO BE INSTALLED IS AS FOLLOWS:
   - PUSH BAR: DORMA 9300 SERIES HEAVY-DUTY EXIT DEVICE OR APPROVED EQUAL
   - FINISH: DORMA 9300 FINISH OR APPROVED EQUAL
   - STANDARD TRIM: TRILOGY D93: DORMA 9300 OR APPROVED EQUAL
   - LEVER: DORMA 9300 OR APPROVED EQUAL
2. ALL PANIC HARDWARE IS TO BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION
3. REFER TO DETAIL 5/C500 FOR ADDITIONAL INFORMATION REGARDING TYPICAL CHAIN LINK FENCE AND GATES.
4. PROVIDE D&D SELF CLOSING HINGES 480 LB WITH SILVER FINISH FOR GALVANIZED FENCING, BLACK FINISH FOR VINYL COATED FENCING.
5. STEEL PLATE FOR PANIC HARDWARE WILL BE FREE OF BURRS, SHARP EDGES, AND SHARP CORNERS.
6. FIELD CUT AND SELVAGE CHAIN LINK FENCING AROUND LEVER TO REMOVE SHARP EDGES.
7. REFER TO DETAIL 7/C500 FOR ADDITIONAL INFORMATION REGARDING TYPICAL FENCE CONNECTION TO BUILDINGS.
8. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL GATES FOR REVIEW PRIOR TO ORDERING MATERIALS.

SINGLE EGRESS GATE WITH PANIC HARDWARE DETAIL
NTS

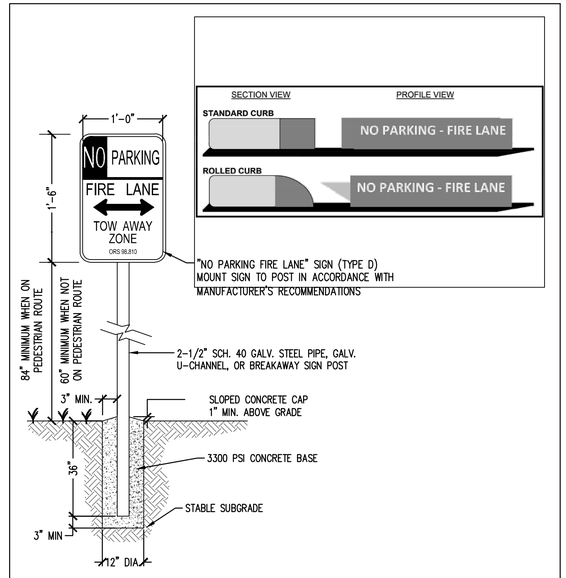
1



NOTES:
1. DESIGN OF POSTS, FRAMES, AND FOOTINGS ARE BY STRUCTURAL ENGINEER.
2. REFER TO DETAIL 7/C500 FOR ADDITIONAL INFORMATION REGARDING TYPICAL FENCE CONNECTION TO BUILDINGS.
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL GATES FOR REVIEW PRIOR TO ORDERING MATERIALS.

SINGLE GATE DETAIL (8' TALL)
NTS

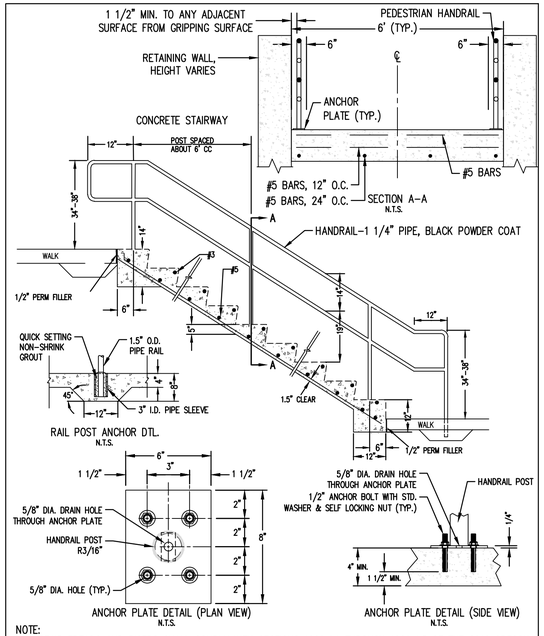
2



NOTES:
1. "NO PARKING FIRE LANE" SIGN SHALL COMPLY WITH OREGON FIRE CODE, LOCAL CODES, AND AS SPECIFIED. MOUNT SIGN IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
2. STANDARD 2-1/2" WELDED STEEL PIPE HOT DIP GALVANIZED AFTER FABRICATION CONFORMING TO ASTM A120 & A123.
3. RAISED CURBS ON PRIVATE PROPERTY SHALL BE PAINTED BRIGHT RED WITH WHITE LETTERS. THE STROKE SHALL BE 1 INCH WITH LETTERS 6 INCHES HIGH TO READ: NO PARKING -FIRE LANE. CURB HEIGHTS LESS THAN 6 INCHES MAY HAVE REDUCED LETTER SIZES FOR THE VERTICAL SIGNAGE ON THE CURB, BUT SHALL NOT BE LESS THAN 4 INCHES. LETTERING SHALL BE PAINTED AT AN INTERVAL OF EVERY 25 FEET.
4. PROPERTY OWNERS SHALL NOT DESIGNATE AND/OR IDENTIFY ANY ACCESS ROAD ON THEIR PROPERTY AS A FIRE LANE WITHOUT PRIOR APPROVAL FROM THE FIRE CODE OFFICIAL. ALL SIGNS AND CURB MARKINGS ARE TO BE INSTALLED AND MAINTAINED BY THE PROPERTY OWNER.

NO PARKING FIRE LANE SIGNAGE AND CURB
NTS

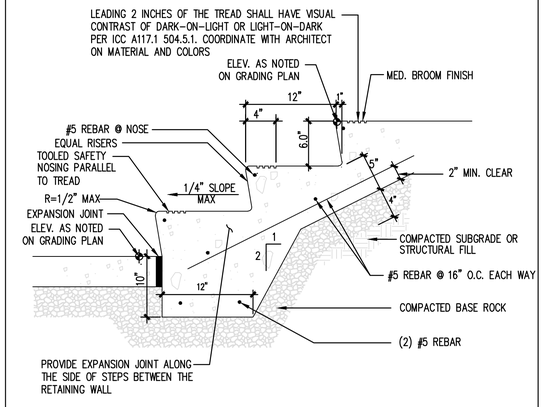
3



NOTE:
1. STAIR TREADS AND RISERS SHALL COMPLY WITH SECTIONS 1009.4.1 THROUGH 1009.4.5 OF THE 2010 OREGON FIRE CODE
2. ALL STAIR TREADS SHALL BE CONSTRUCTED TO DRAIN. PONDING OF WATER SHALL NOT BE ALLOWED.
3. STAIR RISER HEIGHTS SHALL BE 7 INCHES MAX AND 4 INCHES MIN. MEASURED VERTICALLY BETWEEN THE LEADING EDGES OF ADJACENT TREADS.
4. RECTANGULAR TREAD DEPTH SHALL BE A MINIMUM OF 11 INCHES.

CONCRETE STAIR DETAIL
NTS

4



NOTE:
1. OPEN AND SIDES OF STAIRWAYS, LANDINGS AND RAMPS WHICH ARE MORE THAN 30" ABOVE GRADE SHALL BE PROTECTED BY GUARDRAILS PER UNIFORM BUILDING CODE REQUIREMENTS.
2. THE TOP OF HANDRAILS SHALL NOT BE LESS THAN 34" IN HEIGHT.
3. THE HAND RAIL PORTION OF HANDRAILS SHALL NOT BE LESS THAN 1.25" OR MORE THAN 2" IN DIAMETER, CODE ALL PARTS TO FIT. WELD AND GRIND SMOOTH, HOT GALV AFTER FABRICATION.
4. MAXIMUM VERTICAL RISE BETWEEN LANDINGS WILL BE 12 FEET. NUMBER OF STEPS VARIES. ROUND EDGES OF STEPS AND ALL OTHER EXPOSED EDGES TO 1/2" RAD.

CONCRETE STAIR DETAIL
NTS

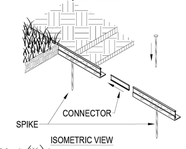
5

permaloc
SUSTAINABLE EDGING SOLUTIONS

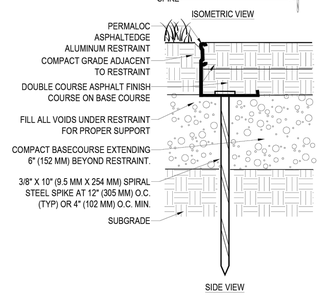
PERMALOC CORPORATION
13505 BARRY ST
HOLLAND, MI 49424
TOLL FREE: 1-800-356-9660
PHONE: (616) 399-9600
FAX: (616) 399-9770
www.permaloc.com

☑ SELECT DESIRED SIZE (IN 8' (2.44 M) LENGTHS WITH .21" (5.33 MM) THICK EXPOSED TOP LIP):
- ☐ 2" X 2.25" (51 MM X 57 MM)
- ☐ 2.5" X 2.25" (64 MM X 57 MM)
- ☒ 3" X 3" (76 MM X 76 MM)
- ☐ 4" X 3" (102 MM X 76 MM)
- ☐ 5" X 3" (127 MM X 76 MM)
- ☐ 6" X 3" (152 MM X 76 MM)

☑ SELECT DESIRED FINISH:
- ☐ MF - MILL FINISH-NATURAL ALUMINUM
- ☒ BL - BLACK DURAFLEX-ELECTROSTATICALLY APPLIED BAKED ON PAINT, MEETS AAMA 2603



ISOMETRIC VIEW



SIDE VIEW

NOTES:
1. 8'-0" (2.44 M) SECTIONS CONNECTED WITH 4" (102 MM) SLIDING CONNECTOR.
2. MAINTAIN 3/8" (9.5 MM) GAP BETWEEN SECTIONS TO ALLOW FOR PRODUCT EXPANSION IN EXTREME TEMPERATURES.
3. CORNERS: NOTCH BASE ONLY AND FORM A CONTINUOUS CORNER.
4. PERMALOC BRICKBLOCK AS MANUFACTURED BY PERMALOC CORPORATION.

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 006-056

ASPHALTEDGE ALUMINUM ASPHALT RESTRAINT
ASPHALT RUNNING TRACK RESTRAINING DOUBLE COURSE OF ASPHALT OVER COMPACT GRAVEL BASE CAD FILES AE-2

006-056

6

REVISION DATE 24/04/2024

FWD//
FIELDWORK DESIGN & ARCHITECTURE
1752 SE HAWTHORNE BLVD
PORTLAND, OREGON 97214
503.360.1437

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AKS ENGINEERING & FORESTRY, LLC
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503.563.6151
WWW.AKS-ENG.COM
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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02/10/2026
DRAWN BY: MNH

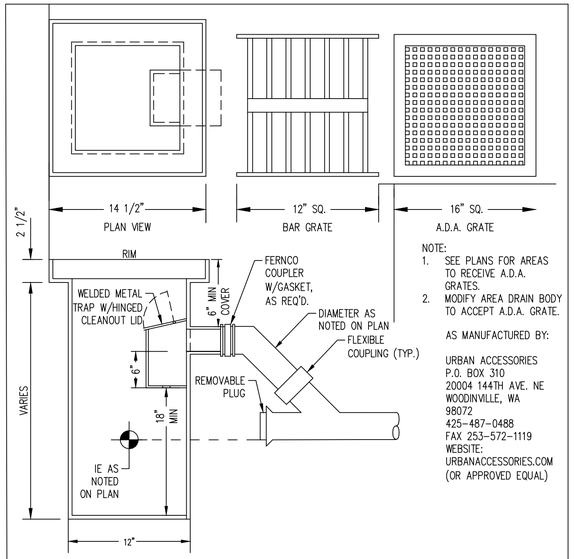
BID SET

REVISIONS:

REGISTERED PROFESSIONAL ENGINEER
97708PE
Austin Cole 2026.02.10 15:09:08-08'00'
OREGON
SEPTEMBER 18, 2014
AUSTIN MORGAN COLE
RENEWS: DECEMBER 31, 2027

SITE DETAILS

C501



NOTE:
1. SEE PLANS FOR AREAS TO RECEIVE A.D.A. GRATES.
2. MODIFY AREA DRAIN BODY TO ACCEPT A.D.A. GRATE.

AS MANUFACTURED BY:

URBAN ACCESSORIES
P.O. BOX 310
20004 144TH AVE. NE
WOODINVILLE, WA
98072
425-487-0488
FAX 253-572-1119
WEBSITE:
URBANACCESSORIES.COM
(OR APPROVED EQUAL)

BASIN:

WELDED 10GA MILD STEEL, COATED ALL SURFACES WITH ASPHALTIC PAINT.

GRATE:

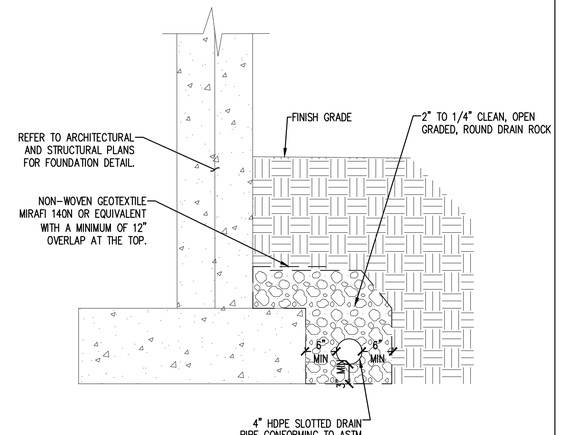
OTHERWISE: WELDED STEEL DROP-IN BAR GRATE
- ☐ ASTM A 36
- ☐ END BARS: 1/2" X 2"
- ☐ CROSS BARS: 1/2" X 2" @ 2" O.C.
- ☐ BIKE STRAP: 1/8" X 1"

AS MANUFACTURED BY:

GRATEMASTER, INC.
P.O. BOX 1040
10780 NW 324TH AVE.
NORTH PLAINS, OR
503-647-2050
FAX 503-647-2425
(OR APPROVED EQUAL)

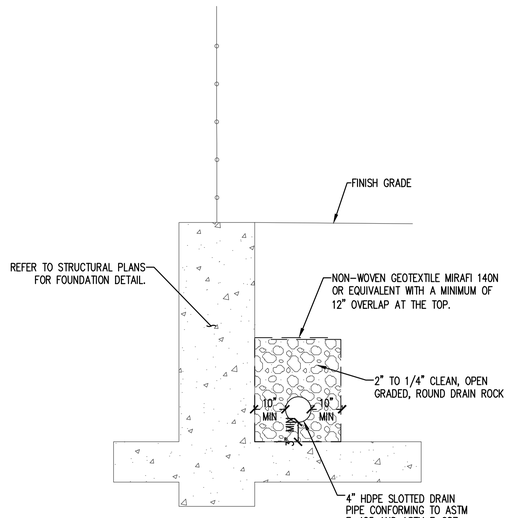
OUTLET STUB: SIZE AS SHOWN ON PLAN

AREA DRAIN (BABY BOX)
NTS
1



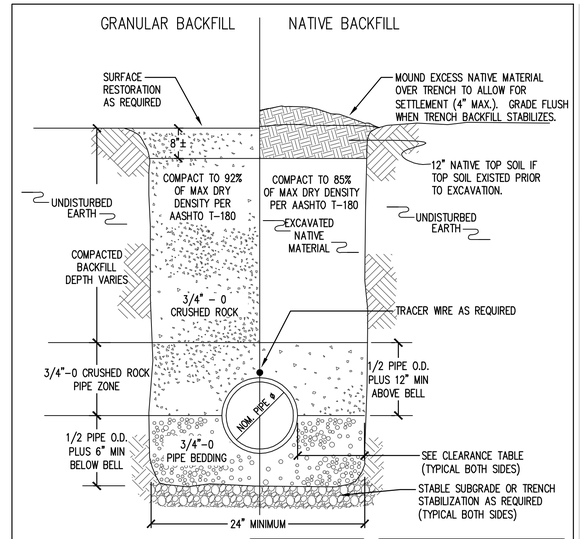
NOTES:
1. FOOTING DRAINS SHALL CONFORM TO GEOTECHNICAL RECOMMENDATIONS.

TYPICAL FOOTING DRAIN DETAIL
NTS
2



NOTES:
1. RETAINING WALL DRAINS SHALL CONFORM TO GEOTECHNICAL RECOMMENDATIONS.

TYPICAL RETAINING WALL DRAIN DETAIL
NTS
3

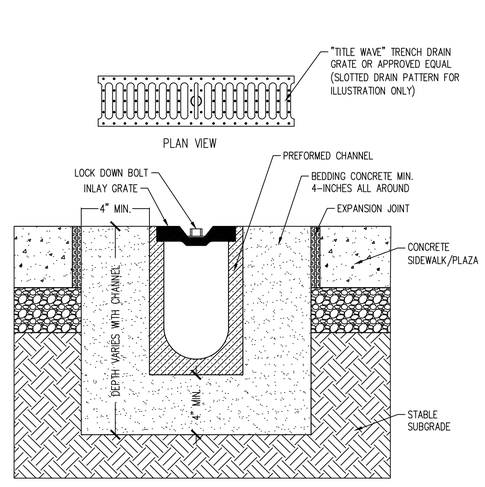


CLEARANCE TABLE	
NOM. PIPE DIAMETER	MIN/MAX CLEARANCE
≤10"	10"/18"
12"-16"	12"/18"
18"-21"	16"/24"
24"-30"	18"/30"
>30"	24"/36"

MULTIPLE PIPE INSTALLATIONS	
DIAMETER	SPACE BETWEEN PIPES
UP TO 21"	8" MIN / 12" MAX

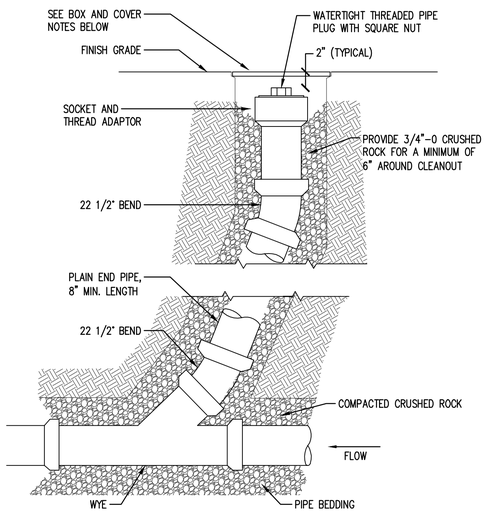
NOTES:
1. GRANULAR BACKFILL REQUIRED UNDER ALL EXISTING OR FUTURE IMPROVED AREAS INCLUDING SIDEWALKS.
2. WHERE NEW PIPING IS IN SAME ALIGNMENT AS EXISTING PIPING, THE PIPE EMBEDMENT SHALL EXTEND TO A MINIMUM OF 6" BELOW THE NEW PIPING OR 6" BELOW EXISTING PIPING, WHICHEVER IS DEEPER.
3. FOR FLEXIBLE PIPE, BOTTOM OF TRENCH SHORING SHALL BE ABOVE SPRINGLINE AND UNDER THE PIPE HAUNCHES.

TRENCH BACKFILL
NTS
4



NOTES:
1. TRENCH DRAIN TO BE ACO K100 TRENCH DRAIN OR APPROVED EQUAL.
2. TITLE WAVE GRATE TO BE SELECTED FROM URBAN ACCESSORIES, OR APPROVED BY OWNER'S REPRESENTATIVE.
3. GRATE MATERIAL AND FINISH TO BE ASTM B117 SALT SPRAY TEST COMPLIANT.
4. TRENCH DRAIN SHALL BE LOAD CLASS B TRAFFIC RATED OR EQUIVALENT.
5. FOLLOW ALL MANUFACTURER RECOMMENDATIONS FOR MATERIALS AND INSTALLATION.

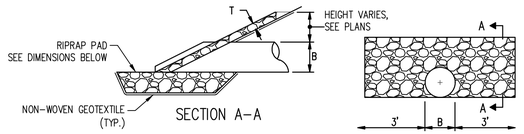
PRE-SLOPED TRENCH DRAIN
NTS
5



NOTES:
1. CLEANOUT RISER SHALL BE SAME SIZE (6" MAX RISER DIAMETER) AND MATERIAL AS LATERAL PIPE.
2. CLEANOUT PIPE SHALL BE LEFT 18" ABOVE EXISTING GRADE UNTIL ALL CURBS ARE INSTALLED AND PRIVATE UTILITY TRENCHES ARE BACKFILLED. CLEANOUTS SHALL THEN BE SET FLUSH WITH FINISH GRADE.
3. TRAFFIC AREA CLEANOUT SHALL BE 8"X4" CAST IRON FRAME AND COVER, OLYMPIC M1007 OR APPROVED EQUAL.
5. NON-TRAFFIC AREA CLEANOUT: CARSON MODEL 910 T-COVER OR APPROVED EQUAL (GREEN FOR SEWER, GRAY FOR STORM)
6. ALL STORM SEWER LIDS TO READ "STORM" OR "C/O".
7. ALL SANITARY SEWER LIDS TO READ "SEWER"

CLEANOUT
NTS
6

CULVERT EMBANKMENT PROTECTION

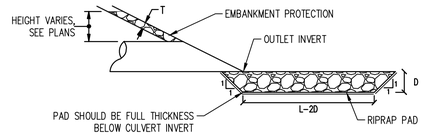


NOTES:
1. SUITABLE VEGETATION CAN BE PLANTED IN RIPRAP.
2. B = OUTSIDE DIAMETER OF PIPE.
3. DO NOT EXCAVATE NON-ERODIBLE ROCK TO PLACE RIPRAP.
4. NON-WOVEN GEOTEXTILE FABRIC REQUIRED BENEATH RIPRAP PAD AND RIPRAP EMBANKMENT PROTECTION.

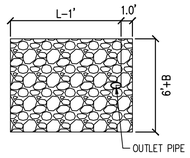
TABLE A			
Riprap Class	T Distance	Depth, D	Length, L
50	12 Inches	1.5 Feet	8 Feet
200	12 Inches	2.5 Feet	12 Feet

SECTION VIEW

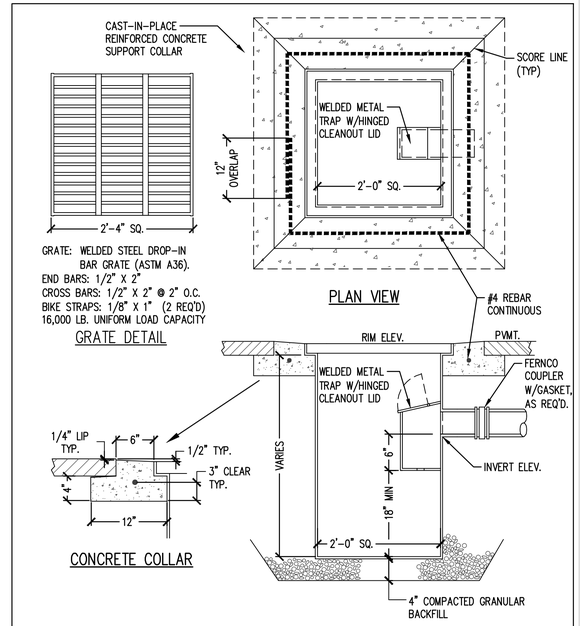
RIPRAP PAD DIMENSIONS



PLAN VIEW



RIP-RAP OUTLET
NTS
7



NOTES:
1. SEE CONSTRUCTION DRAWINGS FOR PIPE SIZE, LOCATION AND INVERT ELEVATION.
2. OUTLET: SIZE AS REQ'D. FOR INDICATED PIPE SIZE.
3. CONCRETE SHALL BE 4,000 PSI AT 28 DAYS.
4. CONSTRUCT BASIN OF WELDED 1/4" STEEL. COAT ALL SURFACES WITH ASPHALTIC PAINT.

STANDARD CATCH BASIN (LYNCH STYLE)
NTS
8

FWD//
FIELDWORK DESIGN & ARCHITECTURE
1752 SE HAWTHORNE BLVD
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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02/10/2026
DRAWN BY: MNH

BID SET

REVISIONS:

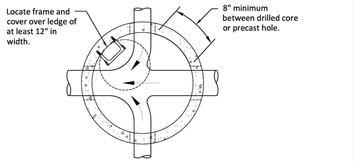
REGISTERED PROFESSIONAL ENGINEER
97708PE
Austin Cole 2026.02.10 15:09:10-08'00'
OREGON
SEPTEMBER 16, 2014
AUSTIN MORGAN COLE
RENEWS: DECEMBER 31, 2027

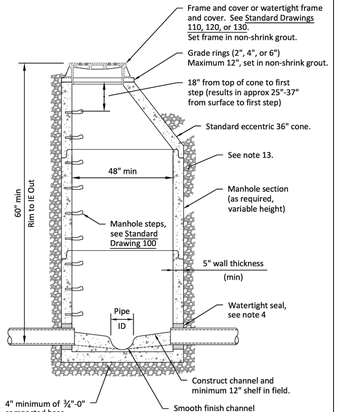
STORMWATER DETAILS

C502

Notes:

1. All pre-cast manhole sections shall conform to the requirements of ASTM C-478.
2. See Standard Drawing 020 for poured in place concrete manhole base.
3. All joints and rubber gaskets shall conform to the requirements of ASTM C-443.
4. See Standard Drawing 030. All pipe connections to manhole shall be watertight.
5. Pipe connections of 24" or greater shall require a manhole and channel detail.
6. Pipe connections of four or more mainlines shall require a manhole connection and channel detail.
7. Provide a minimum of 8" of intact (undisturbed) manhole wall between drilled core or precast hole as measured on the inside face of the manhole.
8. Drilled core or precast holes of wall for pipe shall be 2" minimum and 4" maximum clear of pipe wall.
9. Construction documents shall show a separate manhole roll-out detail when requested by District or City.
10. This drawing is limited to maximum interior drop of 12" for sanitary connection and 48" for storm connection. See Standard Drawing 090 for other situations.
11. Watertight/tamper proof manhole frame and cover shall be used for sanitary sewer manholes in all easement and off-street areas. See Standard Drawing 130.
12. Subgrade stabilization, if required, shall be specified separately and achieved prior to placement of base material.
13. Compaction of base material and backfill surrounding the manhole, or concrete structure, to be per Oregon Standard Spec 00470.40. See Standard Drawing 590 for where 90% and 92% compaction depths apply. Crush rock shall be used up to the top of pipe zone of the highest connecting pipe and in all street right of way areas up to the pavement. Written documentation that compaction was achieved is required.
14. The deflection angle between the pipe and finished structure channel/floor shall allow passage of an approved deflection test mandrel. For the purposes of this design criteria, the 9-leg minimum mandrel dimensions shall be 95% of the nominal pipe diameter with a length of 150% of nominal pipe diameter.
15. Incoming and outgoing conduits must be visible and accessible from the surface. In some cases, manholes greater than 60-inch diameter may require dual access lids and use of a flat top to achieve this criterion.

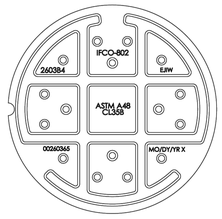




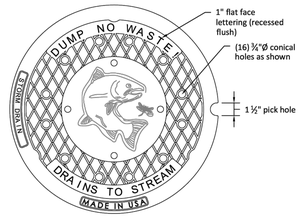
STANDARD MANHOLE

Drawing No. 010 of CWS D&C, R&O 19-22 CoB Revised July 2024

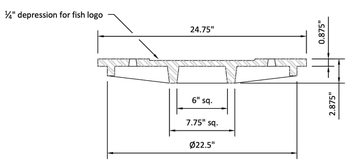
Beaverton OREGON



COVER UNDERSIDE VIEW



COVER TOP VIEW



COVER SECTION VIEW

SEE DRAWING 110 FOR MANHOLE FRAME SPECIFICATIONS AND NOTES

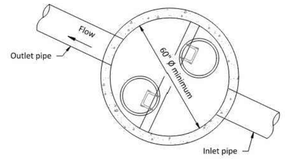
SUBURBAN & STANDARD MANHOLE FRAME AND COVER - STORM

Drawing No. 120 of CWS D&C, R&O 19-22 CoB Revised July 2024

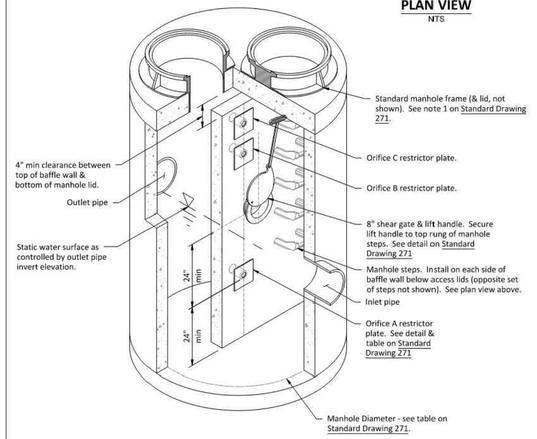
Beaverton OREGON

Notes:

This drawing is to be used in conjuction with the notes, details, and table shown on Standard Drawing 271



PLAN VIEW
NTS

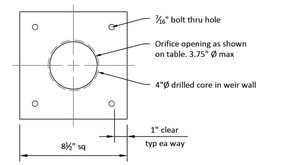


ISOMETRIC CUTAWAY

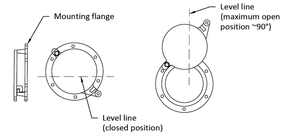
FLOW CONTROL STRUCTURE

Drawing No. 270 of CWS D&C, R&O 19-22 CoB Revised July 2024

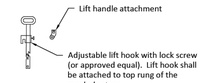
Beaverton OREGON



Orifice Plate



Shear Gate Valve



Shear Gate Lift Handle

Flow Control Structure Table	
For Manhole Structure 1.11	
Manhole diameter (60" min)	72"
Inlet pipe diameter	36"
Inlet invert elevation	201.3'
Secondary inlet invert elevation (if needed)	*
Outlet invert elevation	201.2'
Outlet pipe diameter	8"
Number of orifices	2
Orifice A diameter	1.4"
Orifice A centerline elevation	201.56'
Orifice B diameter	3"
Orifice B invert elevation	206.83'
Orifice C diameter	*
Orifice C invert elevation	*
Overflow/Top of wall elevation	208.1'
Rim elevation	± 214.2'

Notes:

This drawing is to be used in conjuction with Standard Drawing 270

1. This flow control structure shall be located only in areas where a large maintenance vehicle can park for multiple hours without blocking two-way motor vehicle travel. Traffic control flaggers shall not be required for the future Public Works maintenance activity. Flow control structures located in non-vehicle or non-pedestrian areas, surface elevation of flat top slab & manhole frames may be located above adjacent earth grade, with suburban frame castings and no grade rings.
2. Watertight seal of the concrete baffle wall and manhole wall/floor via integrally cast construction by the manhole manufacture. Baffle wall shall have the equivalent of #4 rebar at 12" spacing each way and be a minimum of 5" thick.
3. All manhole sections and top shall conform to the requirements of ASTM C-478, applicable provisions of Standard Drawing 010, and designed to meet frequent H-20 traffic loading.
4. Manhole excavation backfill shall conform to applicable provisions of Standard Drawing 010.
5. When Orifice A is 2.75" or less, a maintenance accessible durable stainless steel screening (316 SS) that will prevent objects greater than 10 mm (0.4") in diameter from reaching the orifice a shall be used and restrictor plates shall be required. See Standard Drawings 280 & 281.
6. Restrictor plate opening to be cut round and smooth. Neoprene gasket shall be installed between the orifice plate and concrete baffle wall to provide a watertight seal.
7. Shear gate shall be made of aluminum alloy in accordance with ASTM B 26 m and ASTM B 275, designation ZG32A or cast iron in accordance with ASTM A 48, class 30B. Lift handle may be solid rod or hollow tubing with adjustable hook as required. Shear gate shall be located on the upstream side of the partition wall. Neoprene rubber gasket required between riser mounting flange and gate flange. Mating surfaces of lid and body shall be machined for proper fit. Flange mounting bolts shall be 3/8" x 3" SS concrete anchors. See detail on this drawing.
8. Shear gate maximum opening shall be controlled by limited hinge movement, stop tab or some other device.
9. The shear gate is for an emergency maintenance activity where draining of the detention facility is required by public works staff. Shear gates shall be watertight, and held in a closed position via zip tie on the handle to the step.
10. Should a proposed design require an orifice greater than 3.75" or a weir wall notch, an engineered modification of Standard Drawings 270 & 271 shall be prepared and signed by the Engineer of Record to illustrate these parts and shown on the approved plans.

FLOW CONTROL STRUCTURE NOTES, DETAILS, & ELEVATION TABLE

Drawing No. 271 of CWS D&C, R&O 19-22 CoB Revised July 2024

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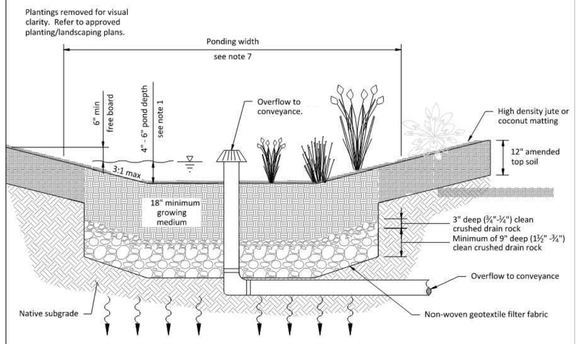
Plantings removed for visual clarity. Refer to approved planting/landscaping plans.



Notes:

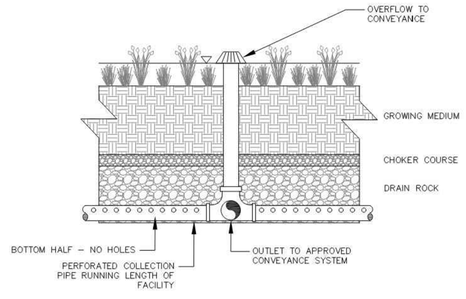
1. Provide overflow conveyance system, overflow conveyance height to allow 4" minimum - 6" maximum ponding, piping to a minimum of the plumbing code or convey the 25 year storm.
2. If using the native soil infiltration for sizing, the rate shall be determined by Table 4-5 or Section 4.08.3.2 shown in Chapter 4 of the Design and Construction Standards.
3. Flow dissipaters should be used if entry slope to the basin is greater than 3:1. Flow dissipaters shall be constructed out of rock or gravel per design flow velocity at entry of the facility.
4. Treatment area shall have high density jute or coconut matting over 18" minimum of growing medium or base stabilization method as approved by the district.
5. Vegetation to be used in wet areas of the basin is per Appendix A of CWS R&O 07-20 for the wet moisture conditions.
6. Vegetation to be used in other areas of basin conforms to plant list of this handbook as approved by district.
7. Ponding width used for determination of sizing factor, see CWS D&C Section 4.08.4

NON-STRUCTURAL INFILTRATION PLANTER/RAIN GARDEN

Drawing No. 725 of CWS D&C, R&O 19-22 CoB Revised July 2024

Beaverton OREGON

PERFORATED PIPE MANIFOLD PROFILE



PIPING NOTES:

FOR PRIVATE PROPERTY, PIPING MUST BE CAST IRON, ABS SCH40, OR PVC SCH40. THREE-INCH PIPE IS REQUIRED FOR FACILITIES DRAINING UP TO 1,500 SQUARE FEET OF IMPERVIOUS AREA; OTHERWISE 4-INCH PIPE MINIMUM IS REQUIRED. PIPING INSTALLATION AND SIZING MUST FOLLOW CURRENT UNIFORM PLUMBING CODE.

FOR PUBLIC FACILITIES, 6-INCH OR 8-INCH ASTM 3034 SDR 35 PVC PIPE AND PERFORATED PIPE ARE REQUIRED.

NOTES:

1. BRANCH SPACING AND NUMBER OF BRANCHES TO BE CALCULATED BASED ON STORM FLOWS FROM IMPERVIOUS AREA BEING TREATED.
2. NO TREES OR DEEP ROOTED VEGETATION OVER PIPING.
3. GRADE SUBGRADE TO PROVIDE MANIFOLD WITH POSITIVE DRAINAGE.
4. CONVEYANCE SIZED AT MINIMUM FOR 25 YEAR EVENT STORM FLOWS.
5. DETENTION (IF REQUIRED) VOLUME BASED ON DEPTH OF DRAIN ROCK RESERVOIR LAYER AND POSITION OF MANIFOLD WITHIN THE DRAIN ROCK LAYER.
6. FITTINGS TO BE SAME MATERIAL AS PERFORATED PIPE.
7. PIPE SECTIONS EXPOSED TO SUNLIGHT SHALL BE OF MATERIAL NOT SUBJECT TO DEGRADATION FROM THE EFFECTS OF SUNLIGHT.

PERFORATED PIPE DETAILS

DRAWING NO. 740 REVISED 10-31-19

Clean Water Services

FWD//

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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02/10/2026
DRAWN BY: MNH

BID SET

REVISIONS:

REGISTERED PROFESSIONAL ENGINEER
97708PE
Austin Cole 2026.02.10 15:09:11-08'00'
OREGON
SEPTEMBER 9, 2014
AUSTIN MORGAN COLE
RENEWS: DECEMBER 31, 2027

STORMWATER DETAILS

C503

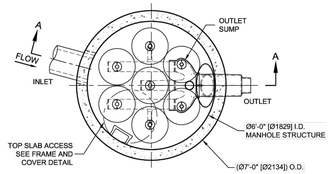
STORMFILTER DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD MANHOLE STYLE IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES (7). VOLUME SYSTEM IS ALSO AVAILABLE WITH MAXIMUM 7 CARTRIDGES. Ø6'-0" [1829 mm] MANHOLE STORMFILTER PEAK HYDRAULIC CAPACITY IS 1.5 CFS [42.5 L/s] . IF THE SITE CONDITIONS EXCEED 1.5 CFS [42.5 L/s] AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

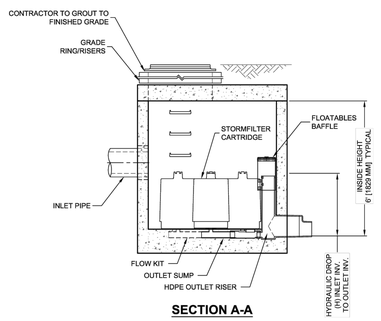
CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27" [686 mm]			18" [458 mm]			LOW DROP		
RECOMMENDED HYDRAULIC DROP (H)	3.05' [930 mm]			2.3' [700 mm]			1.8' [550 mm]		
SPECIFIC FLOW RATE (gpm/sf) (L/s/m²)	2 [1.30]	1.67* [1.08]	1 [0.65]	2 [1.30]	1.67* [1.08]	1 [0.65]	2 [1.30]	1.67* [1.08]	1 [0.65]
CARTRIDGE FLOW RATE (gpm) [L/s]	22.5 [1.42]	18.79 [1.19]	11.25 [0.71]	15 [0.95]	12.53 [0.79]	7.5 [0.44]	10 [0.63]	8.35 [0.54]	5 [0.32]

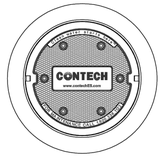
* 1.67 gpm/sf [1.08 L/s/m²] SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY



PLAN VIEW
STANDARD OUTLET RISER
FLOWKIT: 42A



SECTION A-A



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID			2.11
WATER QUALITY FLOW RATE (cfs) [L/s]			0.13
PEAK FLOW RATE (cfs) [L/s]			1.10
RETURN PERIOD OF PEAK FLOW (yrs)			25
CARTRIDGE HEIGHT (SEE TABLE ABOVE)			18"
NUMBER OF CARTRIDGES REQUIRED			5
CARTRIDGE FLOW RATE			15 GPM
MEDIA TYPE (PERLITE, ZPG, PSORB)			ZPG
PIPE DATA:	I.E.	MATERIAL	DIAMETER
INLET PIPE #1	206.58	PVC	4"
INLET PIPE #2	205.38	PVC	8"
OUTLET PIPE	203.08	PVC	8"
RIM ELEVATION			211.67'
ANTI-FLOTATION BALLAST		WIDTH	HEIGHT
		*	*
NOTES/SPECIAL REQUIREMENTS:			
* PER ENGINEER OF RECORD			

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR SITE SPECIFIC DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. STORMFILTER WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 5' [1524 mm] AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
6. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES [178 mm]. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.
7. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) [L/s] DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft) [m²].
8. STORMFILTER STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

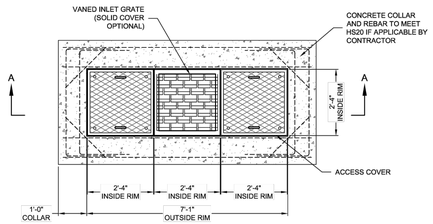
INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET PIPE(S).
E. CONTRACTOR TO PROVIDE AND INSTALL CONNECTOR TO THE OUTLET RISER STUB. STORMFILTER EQUIPPED WITH A DUAL DIAMETER HDPE OUTLET STUB AND SAND COLLAR. IF OUTLET PIPE IS LARGER THAN 8 INCHES [200 mm], CONTRACTOR TO REMOVE THE 8 INCH [200 mm] OUTLET STUB AT MOLDED-IN CUT LINE. COUPLING BY FERNCO OR EQUAL AND PROVIDED BY CONTRACTOR.
F. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

The Stormwater Management StormFilter®
THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,322,629; 5,324,016; 5,707,527; 5,846,157; 5,937,606; 6,649,048; RELATED FOREIGN PATENTS, OR OTHER PATENTS PENDING.

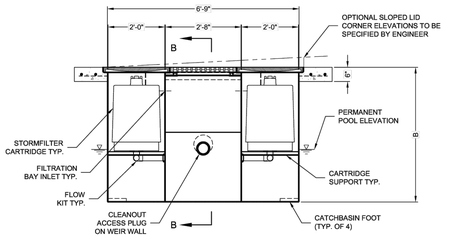
CONTECH® ENGINEERED SOLUTIONS LLC
www.contechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

SFMH72
STORMFILTER
STANDARD DETAIL

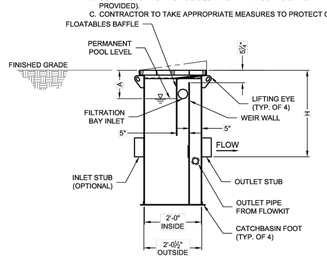
1



PLAN VIEW



SECTION A-A



SECTION B-B

2-CARTRIDGE DEEP CATCHBASIN STORMFILTER DATA

STRUCTURE ID		21
WATER QUALITY FLOW RATE (cfs)		0.06
PEAK FLOW RATE (<1.8 cfs)		0.4
RETURN PERIOD OF PEAK FLOW (yrs)		25
CARTRIDGE FLOW RATE (gpm)		15
MEDIA TYPE (PERLITE, ZPG, PSORB)		ZPG
RIM ELEVATION		200.15'
PIPE DATA:	I.E.	DIAMETER
INLET STUB	*	*
OUTLET STUB	197.75	6"
CONFIGURATIONS		
OUTLET / INLET		
SLOPED LID		NO
SOLID COVER		NO
NOTES/SPECIAL REQUIREMENTS: CONTRACTOR TO VERIFY PIPE DIAMETER AND NOTIFY ENGINEER OF ANY DISCREPANCIES.		

STORMFILTER STEEL CATCHBASIN DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. 2 CARTRIDGE CATCHBASIN HAS A MAXIMUM OF TWO CARTRIDGES. SYSTEM IS SHOWN WITH A 27" CARTRIDGE, AND IS ALSO AVAILABLE WITH AN 18" CARTRIDGE. STORMFILTER CATCHBASIN CONFIGURATIONS ARE AVAILABLE WITH A DRY INLET BAY FOR VECTOR CONTROL.
PEAK HYDRAULIC CAPACITY PER TABLE BELOW. IF THE SITE CONDITIONS EXCEED PEAK HYDRAULIC CAPACITY, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION

CARTRIDGE HEIGHT	27"			18"			18" DEEP		
RECOMMENDED HYDRAULIC DROP (H)	3.05'			2.3'			3.3'		
SPECIFIC FLOW RATE (gpm/sf)	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf	2 gpm/sf	1.67* gpm/sf	1 gpm/sf
CARTRIDGE FLOW RATE (gpm)	22.5	18.79	11.25	15	12.53	7.5	15	12.53	7.5
PEAK HYDRAULIC CAPACITY		1.0			1.0			2.25	
INLET PERMANENT POOL LEVEL (A)		1'-0"			1'-0"			2'-0"	
OVERALL STRUCTURE HEIGHT (B)		4'-9"			3'-9"			4'-9"	

* 1.67 gpm/sf SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STORMFILTER CATCHBASIN STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. WWW.CONTECHES.COM
3. STORMFILTER CATCHBASIN WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
4. INLET SHOULD NOT BE LOWER THAN OUTLET. INLET (IF APPLICABLE) AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR.
5. MANUFACTURER TO APPLY A SURFACE BEAD WELD IN THE SHAPE OF THE LETTER "O" ABOVE THE OUTLET PIPE STUB ON THE EXTERIOR SURFACE OF THE STEEL SFCB.
6. STORMFILTER CATCHBASIN EQUIPPED WITH 4 INCH (APPROXIMATE) LONG STUBS FOR INLET (IF APPLICABLE) AND OUTLET PIPING. STANDARD OUTLET STUB IS 8 INCHES IN DIAMETER. MAXIMUM OUTLET STUB IS 15 INCHES IN DIAMETER. CONNECTION TO COLLECTION PIPING CAN BE MADE USING FLEXIBLE COUPLING BY CONTRACTOR.
7. STEEL STRUCTURE TO BE MANUFACTURED OF 1/4 INCH STEEL PLATE. CASTINGS SHALL MEET AASHTO M306 LOAD RATING. TO MEET HS20 LOAD RATING ON STRUCTURE, A CONCRETE COLLAR IS REQUIRED. WHEN REQUIRED, CONCRETE COLLAR WITH #4 REINFORCING BARS TO BE PROVIDED BY CONTRACTOR.
8. FILTER CARTRIDGES SHALL BE MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 38 SECONDS.
9. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CATCHBASIN (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

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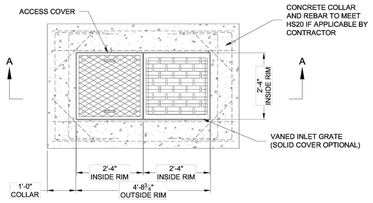
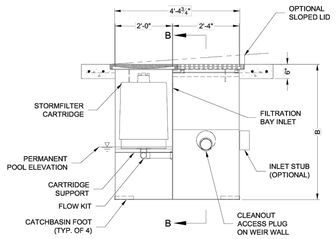
2 CARTRIDGE CATCHBASIN
STORMFILTER
STANDARD DETAIL

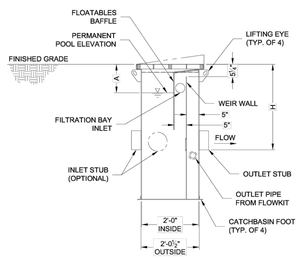
2



PLAN VIEW



SECTION A-A



SECTION B-B

1-CARTRIDGE CATCHBASIN STORMFILTER DATA

STRUCTURE ID		22
WATER QUALITY FLOW RATE (cfs)		0.03
PEAK FLOW RATE (<1 cfs)		0.26
RETURN PERIOD OF PEAK FLOW (yrs)		25
CARTRIDGE HEIGHT (27", 18", 18" DEEP)		18"
CARTRIDGE FLOW RATE (gpm)		15
MEDIA TYPE (PERLITE, ZPG, PSORB)		ZPG
RIM ELEVATION		206.56'
PIPE DATA:	I.E.	DIAMETER
INLET STUB	*	*
OUTLET STUB	203.76'	8"
CONFIGURATION		
OUTLET / INLET		
SLOPED LID		NO
SOLID COVER		NO
NOTES/SPECIAL REQUIREMENTS: CONTRACTOR TO VERIFY PIPE DIAMETER AND NOTIFY ENGINEER OF ANY DISCREPANCIES.		

The Stormwater Management StormFilter®
THIS PRODUCT MAY BE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENTS: 5,322,629; 5,324,016; 5,707,527; 5,846,157; 5,937,606; 6,649,048; RELATED FOREIGN PATENTS, OR OTHER PATENTS PENDING.

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1 CARTRIDGE CATCHBASIN
STORMFILTER
STANDARD DETAIL

3

FWD//
FIELDWORK DESIGN & ARCHITECTURE
1752 SE HAWTHORNE BLVD
PORTLAND, OREGON 97214
503.360.1437

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AKS ENGINEERING & FORESTRY, LLC
12965 SW HERMAN RD, STE 100
TUALATIN, OR 97062
503.563.6151
WWW.AKS-ENG.COM

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THPRD HMT PICKLEBALL FACILITY
15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02/10/2026
DRAWN BY: MNH

BID SET

REVISIONS:

REGISTERED PROFESSIONAL ENGINEER
97708PE
Austin Cole 2026.02.10 15:09:13-08'00'
OREGON
SEPTEMBER 9, 2014
AUSTIN MORGAN COLE
RENEWS: DECEMBER 31, 2027

STORMWATER DETAILS

C504

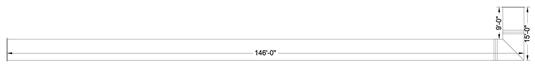
PROJECT SUMMARY

CALCULATION DETAILS
- LOADING = H520/HS25
- APPROX. LINEAR FOOTAGE = 155 LF

STORAGE SUMMARY
- STORAGE VOLUME REQUIRED = 5,000 CF
- PIPE STORAGE VOLUME = 4,383 CF
- BACKFILL STORAGE VOLUME = 6,298 CF
- TOTAL STORAGE PROVIDED = 10,681 CF
- STONE VOID = 33%

PIPE DETAILS
- DIAMETER = 72"
- CORRUGATION = 2 2/3x1/2
- GAGE = 16
- COATING = ALT2
- WALL TYPE = PERFORATED
- BARREL SPACING = 36"

BACKFILL DETAILS
- WIDTH AT ENDS = 12'
- ABOVE PIPE = 12"
- WIDTH AT SIDES = 12'
- BELOW PIPE = 12"



ASSEMBLY
SCALE: 1" = 20'

NOTES

- ALL RISER AND STUB DIMENSIONS ARE TO CENTERLINE. ALL ELEVATIONS, DIMENSIONS, AND LOCATIONS OF RISERS AND INLETS, SHALL BE VERIFIED BY THE ENGINEER OF RECORD PRIOR TO RELEASING FOR FABRICATION.
- ALL FITTINGS AND REINFORCEMENT COMPLY WITH ASTM A998.
- ALL RISERS AND STUBS ARE $2\frac{2}{3}$" x $\frac{1}{2}$" CORRUGATION AND 16 GAGE UNLESS OTHERWISE NOTED.
- RISERS TO BE FIELD TRIMMED TO GRADE.
- QUANTITY OF PIPE SHOWN DOES NOT PROVIDE EXTRA PIPE FOR CONNECTING THE SYSTEM TO EXISTING PIPE OR DRAINAGE STRUCTURES. OUR SYSTEM AS DETAILED PROVIDES NOMINAL INLET AND/OR OUTLET PIPE STUB FOR CONNECTION TO EXISTING DRAINAGE FACILITIES. IF ADDITIONAL PIPE IS NEEDED IT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- BAND TYPE TO BE DETERMINED UPON FINAL DESIGN.
- THE PROJECT SUMMARY IS REFLECTIVE OF THE DYODS DESIGN. QUANTITIES ARE APPROX. AND SHOULD BE VERIFIED UPON FINAL DESIGN AND APPROVAL. FOR EXAMPLE, TOTAL EXCAVATION DOES NOT CONSIDER ALL VARIABLES SUCH AS SHORING AND ONLY ACCOUNTS FOR MATERIAL WITHIN THE ESTIMATED EXCAVATION FOOTPRINT.
- THESE DRAWINGS ARE FOR CONCEPTUAL PURPOSES AND DO NOT REFLECT ANY LOCAL PREFERENCES OR REGULATIONS. PLEASE CONTACT YOUR LOCAL CONTECH REP FOR MODIFICATIONS.

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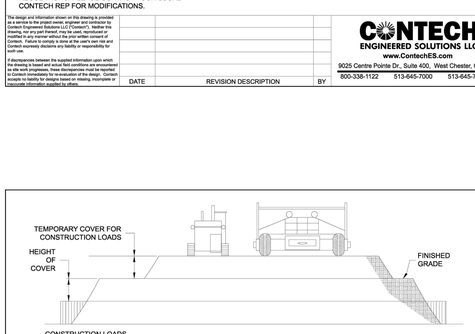
CONTECH CMP DETENTION SYSTEMS
CONTECH DYODS DRAWING

DYO91556 THPRD HMT Pickleball Facility
72" Perforated CMP Detention Pipe
Beaverton, OR
DETENTION SYSTEM

1

PROJECT No.:	SEQ. No.:	DATE:
66843	91556	11/14/2025
DESIGNED: DYO	DRAWN: DYO	
CHECKED: DYO	APPROVED: DYO	
SHEET NO.:	1	



CONSTRUCTION LOADS

FOR TEMPORARY CONSTRUCTION VEHICLE LOADS, AN EXTRA AMOUNT OF COMPACTED COVER MAY BE REQUIRED OVER THE TOP OF THE PIPE. THE HEIGHT-OF-COVER SHALL MEET THE MINIMUM REQUIREMENTS SHOWN IN THE TABLE BELOW. THE USE OF HEAVY CONSTRUCTION EQUIPMENT NECESSITATES GREATER PROTECTION FOR THE PIPE THAN FINISHED GRADE COVER MINIMUMS FOR NORMAL HIGHWAY TRAFFIC.

PIPE SPAN, INCHES	AXLE LOADS (kips)			
	18-50	50-75	75-110	110-150
	MINIMUM COVER (FT)			
12-42	2.0	2.5	3.0	3.0
48-72	3.0	3.0	3.5	4.0
78-120	3.0	3.5	4.0	4.0
126-144	3.5	4.0	4.5	4.5

*MINIMUM COVER MAY VARY, DEPENDING ON LOCAL CONDITIONS. THE CONTRACTOR MUST PROVIDE THE ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE PIPE. MINIMUM COVER IS MEASURED FROM THE TOP OF THE PIPE TO THE TOP OF THE MAINTAINED CONSTRUCTION ROADWAY SURFACE.

CONSTRUCTION LOADING DIAGRAM

SCALE: N.T.S.

SPECIFICATION FOR DESIGNED DETENTION SYSTEM:

SCOPE
THIS SPECIFICATION COVERS THE MANUFACTURE AND INSTALLATION OF THE DESIGNED DETENTION SYSTEM DETAILED IN THE PROJECT PLANS.

MATERIAL
THE MATERIAL SHALL CONFORM TO THE APPLICABLE REQUIREMENTS LISTED BELOW:

ALUMINIZED TYPE 2 STEEL COILS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-274 OR ASTM A-92.

THE GALVANIZED STEEL COILS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-218 OR ASTM A-929.

THE POLYMER COATED STEEL COILS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-246 OR ASTM A-742.

THE ALUMINUM COILS SHALL CONFORM TO THE APPLICABLE OF AASHTO M-197 OR ASTM B-744.

CONSTRUCTION LOADS
CONSTRUCTION LOADS MAY BE HIGHER THAN FINAL LOADS. FOLLOW THE MANUFACTURER'S OR NCSPA GUIDELINES.

NOTE:
THESE DRAWINGS ARE FOR CONCEPTUAL PURPOSES AND DO NOT REFLECT ANY LOCAL PREFERENCES OR REGULATIONS. PLEASE CONTACT YOUR LOCAL CONTECH REP FOR MODIFICATIONS.

PIPE
THE PIPE SHALL BE MANUFACTURED IN ACCORDANCE TO THE APPLICABLE REQUIREMENTS LISTED BELOW:

ALUMINIZED TYPE 2: AASHTO M-36 OR ASTM A-760

GALVANIZED: AASHTO M-36 OR ASTM A-760

POLYMER COATED: AASHTO M-245 OR ASTM A-762

ALUMINUM: AASHTO M-196 OR ASTM B-745

APPLICABLE HANDLING AND ASSEMBLY
SHALL BE IN ACCORDANCE WITH NCSPS (NATIONAL CORRUGATED STEEL PIPE ASSOCIATION) FOR ALUMINIZED TYPE 2, GALVANIZED OR POLYMER COATED STEEL. SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR ALUMINUM PIPE.

REQUIREMENTS
INSTALLATION
SHALL BE IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SECTION 26, DIVISION II DIVISION II OR ASTM A-798 (FOR ALUMINIZED TYPE 2, GALVANIZED OR POLYMER COATED STEEL) OR ASTM B-788 (FOR ALUMINUM PIPE) AND IN CONFORMANCE WITH THE PROJECT PLANS AND SPECIFICATIONS. IF THERE ARE ANY INCONSISTENCIES OR CONFLICTS THE CONTRACTOR SHOULD DISCUSS AND RESOLVE WITH THE SITE ENGINEER.

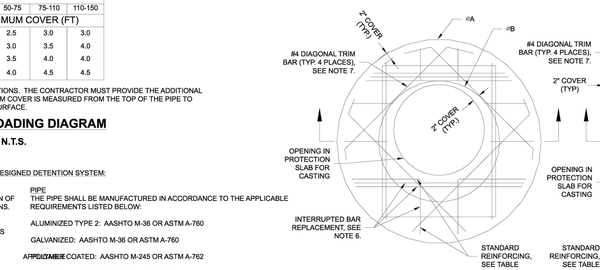
IT IS ALWAYS THE RESPONSIBILITY OF THE CONTRACTOR TO FOLLOW OSHA GUIDELINES FOR SAFE PRACTICES.

SECTION VIEW

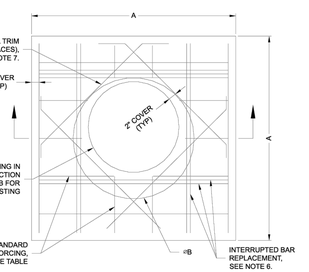
⌀ CMP RISER	A	⌀ B	REINFORCING	**BEARING PRESSURE (PSF)
24"	⌀ 4' 4'X4'	26"	#5 @ 12" OCEW #5 @ 12" OCEW	2,410 1,780
30"	⌀ 4'-6" 4'-6" X 4'-6"	32"	#5 @ 12" OCEW #5 @ 12" OCEW	2,120 1,530
36"	⌀ 5' X 5'	38"	#5 @ 10" OCEW #5 @ 10" OCEW	1,890 1,350
42"	⌀ 5'-6" 5'-6" X 5'-6"	44"	#5 @ 10" OCEW #5 @ 9" OCEW	1,720 1,210
48"	⌀ 6' 6' X 6'	50"	#5 @ 9" OCEW #5 @ 8" OCEW	1,600 1,100

REINFORCING TABLE

** ASSUMED SOIL BEARING CAPACITY



ROUND OPTION PLAN VIEW



SQUARE OPTION PLAN VIEW

NOTES:
1. DESIGN IN ACCORDANCE WITH AASHTO, 17th EDITION.
2. DESIGN LOAD HS25.
3. EARTH COVER = 1' MAX.
4. CONCRETE STRENGTH = 3,500 psi
5. REINFORCING STEEL = ASTM A615, GRADE 60.
6. PROVIDE ADDITIONAL REINFORCING AROUND OPENINGS EQUAL TO THE BARS INTERRUPTED, HALF EACH SIDE. ADDITIONAL BARS TO BE IN THE SAME PLANE.
7. TRIM OPENING WITH DIAGONAL #4 BARS, EXTEND BARS A MINIMUM OF 12" BEYOND OPENING, BEND BARS AS REQUIRED TO MAINTAIN BAR COVER.
8. PROTECTION SLAB AND ALL MATERIALS TO BE PROVIDED AND INSTALLED BY CONTRACTOR.
9. DETAIL DESIGN BY DELTA ENGINEERING, BINGHAMTON, NY.

MANHOLE CAP DETAIL

SCALE: N.T.S.

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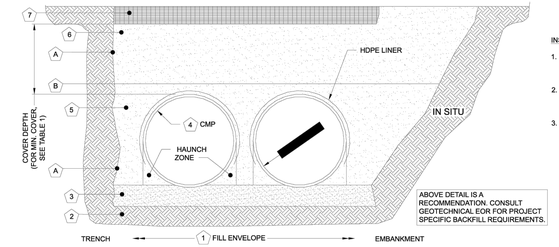
CONTECH CMP DETENTION SYSTEMS
CONTECH DYODS DRAWING

DYO91556 THPRD HMT Pickleball Facility
72" Perforated CMP Detention Pipe
Beaverton, OR
DETENTION SYSTEM

3

PROJECT No.: 66843 | SEQ. No.: 91556 | DATE: 11/14/2025
DESIGNED: DYO | DRAWN: DYO
CHECKED: DYO | APPROVED: DYO
SHEET NO.: 1



MINIMUM WIDTH DEPENDS ON SITE CONDITIONS AND ENGINEERING JUDGEMENT

TABLE 1:

DIAMETER, D	MIN. COVER	CORR. PROFILE
6"-10"	12"	1 1/2" x 1/4"
12"-48"	12"	2 2/3" x 1/2"
>48"-96"	12"	3" x 1", 5" x 1"
>96"	D/8	3" x 1", 5" x 1"

- STRUCTURAL BACKFILL MUST EXTEND TO LIMITS OF THE TABLE
- TOTAL HEIGHT OF COMPACTED COVER FOR CONVENTIONAL HIGHWAY LOADS IS MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF RIGID PAVEMENT.

INSTALLATION NOTES

1. WHEN PLACING THE FIRST LIFTS OF BACKFILL IT IS IMPORTANT TO MAKE SURE THAT THE BACKFILL IS PROPERLY COMPACTED UNDER AND AROUND THE PIPE HAUNCHES.
2. OTHER ALTERNATE BACKFILL MATERIAL MAY BE ALLOWED DEPENDING ON SITE SPECIFIC CONDITIONS, AS APPROVED BY SITE ENGINEER.
3. AN HDPE MEMBRANE LINER WILL BE PLACED ON THE CROWN OF EACH PIPE TO PROVIDE AN IMPERMEABLE BARRIER AGAINST ENVIRONMENTAL CHANGES THAT MAY ADVERSELY AFFECT THE SYSTEM OVER TIME. PLEASE REFER TO THE CORRUGATED METAL PIPE DETENTION DESIGN GUIDE FOR ADDITIONAL TECHNICAL DETAILS.

TABLE 2: PERFORATED STANDARD

CMP RETENTION STANDARD BACKFILL SPECIFICATIONS

	MATERIAL LOCATION	MATERIAL SPECIFICATION	DESCRIPTION	
1	FILL ENVELOPE WIDTH	PER ENGINEER OF RECORD	MINIMUM TRENCH WIDTH MUST ALLOW ROOM FOR PROPER COMPACTION OF HAUNCH MATERIALS UNDER THE PIPE. THE SUGGESTED MINIMUM TRENCH WIDTH, OR EOR RECOMMENDATION: PIPE ≤ 12": D + 16" PIPE > 12": 1.5D + 12"	MINIMUM EMBANKMENT WIDTH (IN FEET) FOR INITIAL FILL ENVELOPE: PIPE < 24": 3.0D PIPE 24" - 144": D + 4'0" PIPE > 144": D + 10'0"
2	FOUNDATION	**AASHTO 26.5.2** - PER ENGINEER OF RECORD	PRIOR TO PLACING THE BEDDING, THE FOUNDATION MUST BE CONSTRUCTED TO A UNIFORM AND STABLE GRADE. IN THE EVENT THAT UNSUITABLE FOUNDATION MATERIALS ARE ENCOUNTERED DURING EXCAVATION, THEY SHALL BE REMOVED AND FOUNDATION BROUGHT BACK TO GRADE WITH A FILL MATERIAL APPROVED BY THE ENGINEER OF RECORD.	
3	BEDDING	**AASHTO M 43: 3, 357, 4, 467, 5, 56, 57**	ENGINEER OF RECORD TO DETERMINE IF BEDDING IS REQUIRED. PIPE MAY BE PLACED ON THE TRENCH BOTTOM OF A RELATIVELY LOOSE, NATIVE SUITABLE WELL GRADED GRANULAR MATERIAL THAT IS ROUGHLY SHAPED TO FIT THE BOTTOM OF THE PIPE. 2" MIN DEPTH. THE BEDDING MATERIAL MAY BE SUITABLE OPEN GRADED GRANULAR BEDDING CONFORMING TO AASHTO SOIL CLASSIFICATIONS A1, A2, OR A3 WITH MAXIMUM PARTICLE SIZE OF 3" PER AASHTO 26.3.8.1	
4			CORRUGATED METAL PIPE	
5	BACKFILL	FREE-DRAINING, ANGULAR, NATURALLY OCCURRING WASHED-STONE PER **AASHTO M 43: 3, 357, 4, 467, 5, 56, 57** OR APPROVED EQUAL *	HAUNCH ZONE MATERIAL SHALL BE HAND SHOVELED OR SHOVEL SLICED INTO PLACE TO ALLOW FOR PROPER COMPACTION WITHOUT SOFT SPOTS. BACKFILL SHALL BE PLACED IN 8" +/- LOOSE LIFTS AND COMPACTED TO 90% STANDARD PROCTOR PER AASHTO T 99. BACKFILL SHALL BE PLACED SUCH THAT THERE IS NO MORE THAN A TWO LIFT (16") DIFFERENTIAL BETWEEN ANY OF THE PIPES AT ANY TIME DURING THE BACKFILL PROCESS. THE BACKFILL SHOULD BE ADVANCED ALONG THE LENGTH OF THE SYSTEM TO AVOID DIFFERENTIAL LOADING. WHERE CONVENTIONAL COMPACTION TESTING IS NOT PRACTICAL, THE MATERIAL SHALL BE MECHANICALLY COMPACTED UNTIL NO FURTHER YIELDING OF MATERIAL IS OBSERVED UNDER THE COMPACTOR. AREAS WITH HIGH WATER TABLE FLUCTUATIONS THAT INTERACT WITH THE PIPE ZONE, CONSIDER INSTALLING A GEOTEXTILE SEPARATION LAYER TO PREVENT SOIL MIGRATION.	**IN
6	COVER MATERIAL	UP TO MIN. COVER - **AASHTO M 145: A-1, A-2, A-3** MIN. COVER - PER ENGINEER OF RECORD	ABOVE COVER MATERIAL MAY INCLUDE NON-BITUMINOUS, GRANULAR ROADBASE MATERIAL WITHIN MIN COVER LIMITS	
7	RIGID OR FLEXIBLE PAVEMENT (IF APPLICABLE)	PER ENGINEER OF RECORD	FLEXIBLE PAVEMENT SHOULD NOT BE COUNTED AS PART OF THE FILL HEIGHT OVER THE CMP. FINAL BACKFILL MATERIAL SELECTION AND COMPACTION REQUIREMENTS SHALL FOLLOW THE PROJECT PLANS AND SPECIFICATIONS PER THE ENGINEER OF RECORD.	
A	OPTIONAL SIDE GEOTEXTILE	NONE	GEOTEXTILE LAYER IS RECOMMENDED ON SIDES OF EXCAVATION TO PREVENT SOIL MIGRATION.	
B	GEOTEXTILE BETWEEN LAYERS	NONE	IF SOIL TYPES DIFFER AT ANY POINT ABOVE PIPE INVERT, A GEOTEXTILE LAYER IS RECOMMENDED TO BE PLACED BETWEEN THE LAYERS TO PREVENT SOIL MIGRATION.	

NOTES:
- FOR MULTIPLE BARREL INSTALLATIONS, THE RECOMMENDED STANDARD SPACING BETWEEN PARALLEL PIPE RUNS SHALL BE THE PIPE DIAMETER /2 BUT NO LESS THAN 12" FOR DIAMETERS <72". FOR 72" AND LARGER DIAMETERS, THE MINIMUM SPACING IS 36". CONTACT YOUR CONTECH REPRESENTATIVE FOR NONSTANDARD SPACING.
- APPROVED REGIONAL EQUIVALENTS FOR SECTION 5 INCLUDE CA-7, MIDOT 6AA, 6A, OR 5G, PROVIDED THEY MEET THE PARTICLE SIZES INDICATED.

MANUFACTURER RECOMMENDED BACKFILL

NOT TO SCALE

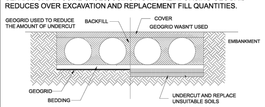
CMP DETENTION INSTALLATION GUIDE

PROPER INSTALLATION OF A FLEXIBLE UNDERGROUND DETENTION SYSTEM WILL ENSURE LONG-TERM PERFORMANCE. THE CONFIGURATION OF THESE SYSTEMS OFTEN REQUIRES SPECIAL CONSTRUCTION PRACTICES THAT DIFFER FROM CONVENTIONAL FLEXIBLE PIPE CONSTRUCTION. CONTECH ENGINEERED SOLUTIONS STRONGLY SUGGESTS SCHEDULING A PRE-CONSTRUCTION MEETING WITH YOUR LOCAL SALES ENGINEER TO DETERMINE IF ADDITIONAL MEASURES, NOT COVERED IN THIS GUIDE, ARE APPROPRIATE FOR YOUR SITE.

FOUNDATION

CONSTRUCT A FOUNDATION THAT CAN SUPPORT THE DESIGN LOADING APPLIED BY THE PIPE AND ADJACENT BACKFILL WEIGHT AS WELL AS MAINTAIN ITS INTEGRITY DURING CONSTRUCTION.

IF SOFT OR UNSUITABLE SOILS ARE ENCOUNTERED, REMOVE THE POOR SOILS DOWN TO A SUITABLE DEPTH AND THEN BUILD UP TO THE APPROPRIATE ELEVATION WITH A COMPETENT BACKFILL MATERIAL. THE STRUCTURAL FILL MATERIAL GRADATION SHOULD NOT ALLOW THE MIGRATION OF FINES, WHICH CAN CAUSE SETTLEMENT OF THE DETENTION SYSTEM OR PAVEMENT ABOVE. IF THE STRUCTURAL FILL MATERIAL IS NOT COMPATIBLE WITH THE UNDERLYING SOILS AN ENGINEERING FABRIC SHOULD BE USED AS A SEPARATOR. IN SOME CASES, USING A STIFF REINFORCING GEOGRID REDUCES OVER EXCAVATION AND REPLACEMENT FILL QUANTITIES.



GRADE THE FOUNDATION SUBGRADE TO A UNIFORM OR SLIGHTLY SLOPING GRADE. IF THE SUBGRADE IS CLAY OR RELATIVELY NON-POROUS AND THE CONSTRUCTION SEQUENCE WILL LAST FOR AN EXTENDED PERIOD OF TIME, IT IS BEST TO SLOPE THE GRADE TO ONE END OF THE SYSTEM. THIS WILL ALLOW EXCESS WATER TO DRAIN QUICKLY, PREVENTING SATURATION OF THE SUBGRADE.

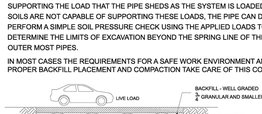
GEOMEMBRANE BARRIER

THE RESISTIVITY OF A PROJECT SITE MAY CHANGE OVER TIME DUE TO THE USE OF VARIOUS SALTING, DE-ICING, AND AGRICULTURAL AGENTS APPLIED ON OR NEAR THE AREA. TO MITIGATE THE POTENTIAL IMPACT OF THESE AGENTS, AN HDPE MEMBRANE LINER WILL BE INSTALLED ON THE CROWN OF EACH PIPE, CREATING AN IMPERMEABLE BARRIER. THIS MEASURE IS DESIGNED TO PROTECT THE SYSTEM FROM ENVIRONMENTAL CHANGES THAT COULD LEAD TO PREMATURE CORROSION AND REDUCE THE OVERALL SERVICE LIFE.

IN-SITU TRENCH WALL

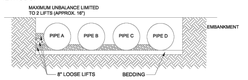
IF EXCAVATION IS REQUIRED, THE TRENCH WALL NEEDS TO BE CAPABLE OF SUPPORTING THE LOAD THAT THE PIPE SHEDS AS THE SYSTEM IS LOADED. IF SOILS ARE NOT CAPABLE OF SUPPORTING THESE LOADS, THE PIPE CAN DEFLECT. PERFORM A SIMPLE SOIL PRESSURE CHECK USING THE APPLIED LOADS TO DETERMINE THE LIMITS OF EXCAVATION BEYOND THE SPRING LINE OF THE OUTER MOST PIPES.

IN MOST CASES THE REQUIREMENTS FOR A SAFE WORK ENVIRONMENT AND PROPER BACKFILL PLACEMENT AND COMPACTION TAKE CARE OF THIS CONCERN.



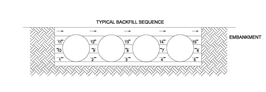
BACKFILL PLACEMENT

MATERIAL SHALL BE WORKED INTO THE PIPE HAUNCHES BY MEANS OF SHOVEL-SLICING, RODDING, AIR TAMPER, VIBRATORY ROD, OR OTHER EFFECTIVE METHODS.

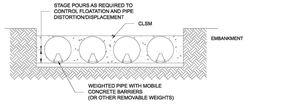


IF AASHTO T99 PROCEDURES ARE DETERMINED INFEASIBLE BY THE GEOTECHNICAL ENGINEER OF RECORD, COMPACTION IS CONSIDERED ADEQUATE WHEN NO FURTHER YIELDING OF THE MATERIAL IS OBSERVED UNDER THE COMPACTOR, OR UNDER FOOT, AND THE GEOTECHNICAL ENGINEER OF RECORD (OR REPRESENTATIVE THEREOF) IS SATISFIED WITH THE LEVEL OF COMPACTION.

FOR LARGE SYSTEMS, CONVEYOR SYSTEMS, BACKHOES WITH LONG REACHES OR DRAGLINES WITH STONE BUCKETS MAY BE USED TO PLACE BACKFILL. ONCE MINIMUM COVER FOR CONSTRUCTION LOADING ACROSS THE ENTIRE WIDTH OF THE SYSTEM IS REACHED, ADVANCE THE EQUIPMENT TO THE END OF THE RECENTLY PLACED FILL, AND BEGIN THE SEQUENCE AGAIN UNTIL THE SYSTEM IS COMPLETELY BACKFILLED. THIS TYPE OF CONSTRUCTION SEQUENCE PROVIDES ROOM FOR STOCKPILED BACKFILL DIRECTLY BEHIND THE BACKHOE, AS WELL AS THE MOVEMENT OF CONSTRUCTION TRAFFIC. MATERIAL STOCKPILES ON TOP OF THE BACKFILLED DETENTION SYSTEM SHOULD BE LIMITED TO 8- TO 10-FEET HIGH AND MUST PROVIDE BALANCED LOADING ACROSS ALL BARRELS. TO DETERMINE THE PROPER COVER OVER THE PIPES TO ALLOW THE MOVEMENT OF CONSTRUCTION EQUIPMENT SEE TABLE 1, OR CONTACT YOUR LOCAL CONTECH SALES ENGINEER.



WHEN FLOWABLE FILL IS USED, YOU MUST PREVENT PIPE FLOATATION. TYPICALLY, SMALL LIFTS ARE PLACED BETWEEN THE PIPES AND THEN ALLOWED TO SET-UP PRIOR TO THE PLACEMENT OF THE NEXT LIFT. THE ALLOWABLE THICKNESS OF THE CLSM LIFT IS A FUNCTION OF A PROPER BALANCE BETWEEN THE UPLIFT FORCE OF THE CLSM, THE OPPOSING WEIGHT OF THE PIPE, AND THE EFFECT OF OTHER RESTRAINING MEASURES. THE PIPE CAN CARRY LIMITED FLUID PRESSURE WITHOUT PIPE DISTORTION OR DISPLACEMENT, WHICH ALSO AFFECTS THE CLSM LIFT THICKNESS. YOUR LOCAL CONTECH SALES ENGINEER CAN HELP DETERMINE THE PROPER LIFT THICKNESS.

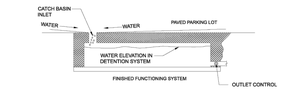


CONSTRUCTION LOADING

TYPICALLY, THE MINIMUM COVER SPECIFIED FOR A PROJECT ASSUMES H-20 LIVE LOAD. BECAUSE CONSTRUCTION LOADS OFTEN EXCEED DESIGN LIVE LOADS, INCREASED TEMPORARY MINIMUM COVER REQUIREMENTS ARE NECESSARY. SINCE CONSTRUCTION EQUIPMENT VARIES FROM JOB TO JOB, IT IS BEST TO ADDRESS EQUIPMENT SPECIFIC MINIMUM COVER REQUIREMENTS WITH YOUR LOCAL CONTECH SALES ENGINEER DURING YOUR PRE-CONSTRUCTION MEETING.

ADDITIONAL CONSIDERATIONS

BECAUSE MOST SYSTEMS ARE CONSTRUCTED BELOW-GRADE, RAINFALL CAN RAPIDLY FILL THE EXCAVATION; POTENTIALLY CAUSING FLOATATION AND MOVEMENT OF THE PREVIOUSLY PLACED PIPES. TO HELP MITIGATE POTENTIAL PROBLEMS, IT IS BEST TO START THE INSTALLATION AT THE DOWNSTREAM END WITH THE OUTLET ALREADY CONSTRUCTED TO ALLOW A ROUTE FOR THE WATER TO ESCAPE. TEMPORARY DIVERSION MEASURES MAY BE REQUIRED FOR HIGH FLOWS DUE TO THE RESTRICTED NATURE OF THE OUTLET PIPE.



CMP DETENTION SYSTEM INSPECTION AND MAINTENANCE

UNDERGROUND STORMWATER DETENTION AND INFILTRATION SYSTEMS MUST BE INSPECTED AND MAINTAINED AT REGULAR INTERVALS FOR PURPOSES OF PERFORMANCE AND LONGEVITY.

INSPECTION

INSPECTION IS THE KEY TO EFFECTIVE MAINTENANCE OF CMP DETENTION SYSTEMS AND IS EASILY PERFORMED. CONTECH RECOMMENDS ONGOING, ANNUAL INSPECTIONS. SITES WITH HIGH TRASH LOAD OR SMALL OUTLET CONTROL ORIFICES MAY NEED MORE FREQUENT INSPECTIONS. THE RATE AT WHICH THE SYSTEM COLLECTS POLLUTANTS WILL DEPEND MORE ON SITE SPECIFIC ACTIVITIES RATHER THAN THE SIZE OR CONFIGURATION OF THE SYSTEM.

INSPECTIONS SHOULD BE PERFORMED MORE OFTEN IN EQUIPMENT WASH/DOWN AREAS, IN CLIMATES WHERE SANDING AND/OR SALTING OPERATIONS TAKE PLACE, AND IN OTHER VARIOUS INSTANCES IN WHICH ONE WOULD EXPECT HIGHER ACCUMULATIONS OF SEDIMENT OR ABRASIVE/CORROSIVE CONDITIONS. A RECORD OF EACH INSPECTION IS TO BE MAINTAINED FOR THE LIFE OF THE SYSTEM

MAINTENANCE

CMP DETENTION SYSTEMS SHOULD BE CLEANED WHEN AN INSPECTION REVEALS ACCUMULATED SEDIMENT OR TRASH IS CLOGGING THE DISCHARGE ORIFICE.

ACCUMULATED SEDIMENT AND TRASH CAN TYPICALLY BE EVACUATED THROUGH THE MANHOLE OVER THE OUTLET ORIFICE. IF MAINTENANCE IS NOT PERFORMED AS RECOMMENDED, SEDIMENT AND TRASH MAY ACCUMULATE IN FRONT OF THE OUTLET ORIFICE. MANHOLE COVERS SHOULD BE SECURELY SEATED FOLLOWING CLEANING ACTIVITIES. CONTECH SUGGESTS THAT ALL SYSTEMS BE DESIGNED WITH AN ACCESS/INSPECTION MANHOLE SITUATED AT OR NEAR THE INLET AND THE OUTLET ORIFICE. SHOULD IT BE NECESSARY TO GET INSIDE THE SYSTEM TO PERFORM MAINTENANCE ACTIVITIES, ALL APPROPRIATE PRECAUTIONS REGARDING CONFINED SPACE ENTRY AND OSHA REGULATIONS SHOULD BE FOLLOWED.

ANNUAL INSPECTIONS ARE BEST PRACTICE FOR ALL UNDERGROUND SYSTEMS. DURING THIS INSPECTION, IF EVIDENCE OF SALTING/DE-ICING AGENTS IS OBSERVED WITHIN THE SYSTEM, IT IS BEST PRACTICE FOR THE SYSTEM TO BE RINSED, INCLUDING ABOVE THE SPRING LINE SOON AFTER THE SPRING THAW AS PART OF THE MAINTENANCE PROGRAM FOR THE SYSTEM.

MAINTAINING AN UNDERGROUND DETENTION OR INFILTRATION SYSTEM IS EASIEST WHEN THERE IS NO FLOW ENTERING THE SYSTEM. FOR THIS REASON, IT IS A GOOD IDEA TO SCHEDULE THE CLEANOUT DURING DRY WEATHER.

THE FOREGOING INSPECTION AND MAINTENANCE EFFORTS HELP ENSURE UNDERGROUND PIPE SYSTEMS USED FOR STORMWATER STORAGE CONTINUE TO FUNCTION AS INTENDED BY IDENTIFYING RECOMMENDED REGULAR INSPECTION AND MAINTENANCE PRACTICES. INSPECTION AND MAINTENANCE RELATED TO THE STRUCTURAL INTEGRITY OF THE PIPE OR THE SOUNDNESS OF PIPE JOINT CONNECTIONS IS BEYOND THE SCOPE OF THIS GUIDE.

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CONTECH CMP DETENTION SYSTEMS
CONTECH DYODS DRAWING

DYO91556 THPRD HMT Pickleball Facility
72" Perforated CMP Detention Pipe
Beaverton, OR
DETENTION SYSTEM

4

PROJECT No.: 66843 | SEQ. No.: 91556 | DATE: 11/14/2025
DESIGNED: DYO | DRAWN: DYO
CHECKED: DYO | APPROVED: DYO
SHEET NO.: 1

FWD//
FIELDWORK DESIGN & ARCHITECTURE

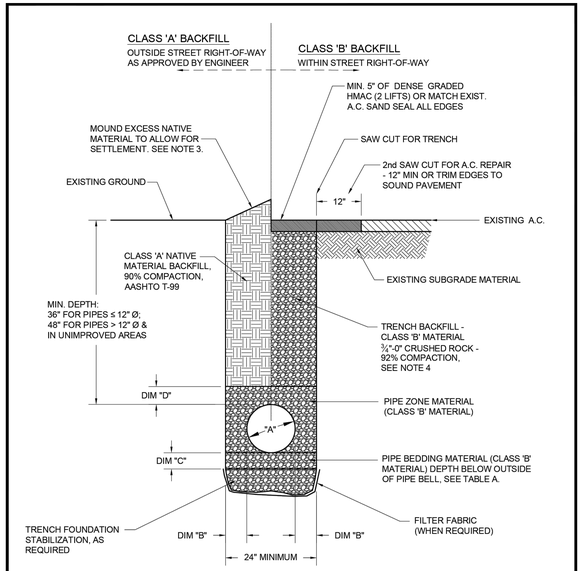


TABLE A			
"A" (IN)	"B" (IN)	"C" (IN)	"D" (IN)
4	10	6	8
6	10	6	8
8	10	6	10
12	12	6	10
16	12	6	12
24	12	6	12

NOTES:

1. "A" = NOMINAL PIPE DIAMETER
2. SEE "CITY OF BEAVERTON ENGINEERING DESIGN MANUAL" FOR ADDITIONAL REQUIREMENTS.
3. RESTORE LANDSCAPE TO PRE-EXISTING CONDITIONS OR BETTER.
4. ALL COMPACTION REQUIREMENTS WITHIN RIGHT OF WAY PER AASHTO T-180 AND OREGON STANDARD SPECIFICATIONS WITH SECTIONS 405.46.(C)(2) AND 00490 CHANGED FROM T-99 TO T-180.

Beaverton ENGINEERING	TYPICAL WATER LINE TRENCH BACKFILL	SCALE: NONE	620-1
		DATE: JAN 2025	

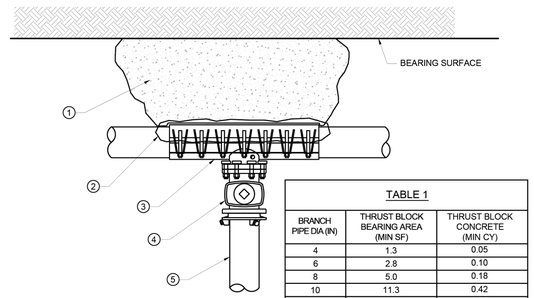


TABLE 1		
BRANCH PIPE DIA (IN)	THRUST BLOCK BEARING AREA (MIN SF)	THRUST BLOCK CONCRETE (MIN CY)
4	1.3	0.05
6	2.8	0.10
8	5.0	0.18
10	11.3	0.42
12	20.1	0.75
18	26.0	0.97

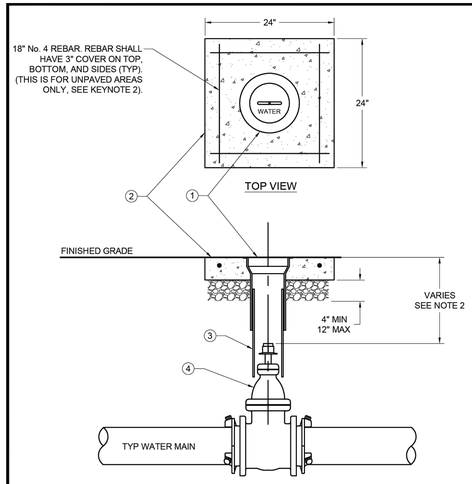
KEYNOTES:

1. CONCRETE THRUST BLOCK POURED AGAINST UNDISTURBED EARTH. THRUST BLOCK SIZE SHALL BE PER TABLE 1 AND SHALL NOT BE LESS THAN ONE FOOT IN ANY DIMENSION. CONCRETE SHALL BE CLASS 3000. FIELD MIXING OF CONCRETE FOR THRUST ALLOWED ONLY WITH PRIOR WRITTEN APPROVAL FROM CITY OF BEAVERTON. CITY REPRESENTATIVE CAN MANDATE CONCRETE CYLINDER TESTING. FIELD MIXED CONCRETE MUST BE CLASS 5000 PER EDM 630.3.3.
2. COVER TAPPING SLEEVE WITH 8 MIL PLASTIC MATERIAL AS SHOWN PRIOR TO POURING THRUST BLOCK AND BACKFILLING
3. STAINLESS STEEL TAPPING SLEEVE WITH GASKET AND FLANGED CONNECTION
4. GATE VALVES 10" AND LARGER WITH LESS THAN 24" BETWEEN THE OPERATING NUT AND FINISHED GRADE WILL REQUIRE A HORIZONTAL BEVEL GEAR ACTUATOR. INSTALL 12"x12"x8" CONCRETE PIER BLOCK AS VALVE SUPPORT.
5. ALL JOINTS ON SHALL BE RESTRAINED AND WRAPPED IN POLYETHYLENE ENCASEMENT PER STANDARD DRAWING 680-3

NOTES: (TAPPING CONTRACTOR ONLY)

1. BEFORE INSTALLING TAPPING SLEEVE, CONTRACTOR SHALL THOROUGHLY CLEAN PIPE TO REMOVE ALL DIRT, ROCKS, AND OTHER FOREIGN MATERIAL FROM PIPE WHERE SLEEVE WILL BE INSTALLED. THOROUGHLY DISINFECT ALL PARTS PRIOR TO ASSEMBLY/INSTALLATION.
2. SLEEVE BOLTS SHALL BE TIGHTENED TO MANUFACTURER'S TORQUE SPECIFICATIONS
3. CONTRACTOR SHALL ENSURE THAT GASKET IS PROPERLY ALIGNED AND FREE OF FOREIGN MATERIAL PRIOR TO TIGHTENING SLEEVE BOLTS
4. SLEEVE LOCATION AND INSTALLATION SHALL BE APPROVED BY WATER OPERATIONS INSPECTOR PRIOR TO TAPPING
5. CONTRACTOR SHALL AIR TEST SLEEVE TO 40 PSI PRIOR TO TAPPING
6. CONTRACTOR SHALL FLUSH VALVE PRIOR TO PIPE CONNECTION
7. EDGE OF TAPPING SLEEVE SHALL BE A MINIMUM OF 18" FROM BEND, JOINT, TAP, FITTING, OR ANY APPURTENANCES.

Beaverton ENGINEERING	TAPPING SLEEVE	SCALE: NONE	630-2
		DATE: JAN 2025	



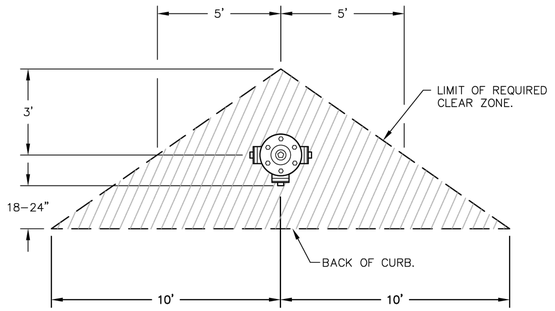
KEYNOTES:

1. VALVE BOX & COVER WITH "WATER" CAST IN THE TOP SURFACE. USE CITY APPROVED PRODUCT LIST.
2. **UNPAVED AREAS ONLY**: PROVIDE 24" SQUARE BY 6" THICK CONCRETE PAD (TO ACCOMMODATE 3" COVER REQUIREMENTS NOTED ABOVE), CENTERED ON VALVE BOX. INSTALL OVER 4" COMPACTED ¾"-0" CRUSHED ROCK
3. 6" D3034 PVC PIPE RISER WITH END CUT TO FIT OVER VALVE HOUSING, LENGTH AS NECESSARY
4. MJ GATE VALVE. IF BUTTERFLY VALVES ARE INSTALLED, PROVIDE MIN. 6" CLEARANCE FROM OUTSIDE OF VALVE TO TRENCH WALL.
5. PIPE BEDDING AND CLASS B BACKFILL, SEE STANDARD DRAWING 620-1.

NOTES:

1. CENTER VALVE BOX ON AXIS OF OPERATING NUT AND SET PLUMB WITH FINISHED GRADE
2. OPERATOR EXTENSION REQUIRED WHEN VALVE NUT IS DEEPER THAN 6 FEET FROM FINISHED GRADE. REFER TO DRAWING 640-4

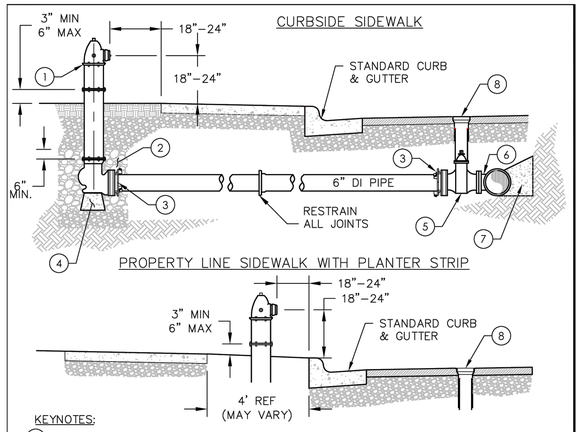
Beaverton ENGINEERING	TYPICAL STANDARD VALVE BOX SETTING	SCALE: NONE	640-2
		DATE: JAN 2025	



NOTES:

1. THE FOLLOWING ITEMS ARE PROHIBITED WITHIN THE CLEAR ZONE:
   - VEHICLE PARKING
   - FENCES
   - TREES
   - LARGE SHRUBS
   - RETAINING WALLS
   - STREET LIGHTS
   - SIGNS & SIGN POSTS
   - ANYTHING ELSE THAT MAY INTERFERE WITH THE OPERATION OF THE HYDRANT
2. THE FOLLOWING ITEMS ARE ALLOWED WITHIN THE CLEAR ZONE:
   - LAWN GRASS
   - MULCH
   - BARKDUST
   - GROUND COVER
   - LOW PLANTINGS

Beaverton ENGINEERING	FIRE HYDRANT CLEAR ZONE	SCALE: NONE	650-1
		DATE: JUNE 2018	



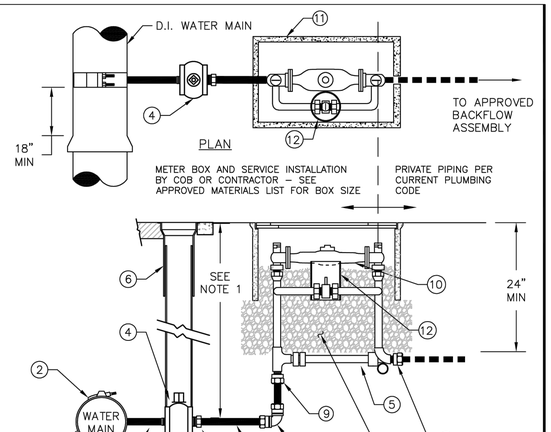
KEYNOTES:

1. APPROVED FIRE HYDRANT ASSEMBLY PER MANUFACTURER'S SPECIFICATIONS WITH STORZ HPHA50–45NH PERMANENT HYDRANT ADAPTER ON THE 4½" PORT.
2. DRAIN ROCK, 4 CU. FT. MINIMUM
3. TYPICAL 6" MEGALUG RETAINER OR EQUAL AT EACH PIPE FITTING
4. 12"x12"x8" CONCRETE PIER BLOCK PLACED ON UNDISTURBED NATIVE SOIL
5. 6" MJxMJ GATE VALVE.
6. WATER MAIN SIZE MJ x 6" MJ TAPPING SLEEVE, SEE DRAWING 630–2, SEE NOTE 4
7. CONCRETE THRUST BLOCK, SEE DRAWING 630–9
8. VALVE BOX, SEE DRAWING 640–2

NOTES:

1. REFER TO DRAWING 650–1 FOR HYDRANT CLEAR ZONE REQUIREMENTS
2. HYDRANT BURY DEPTH – 30" MIN., 6' MAX.
3. WHEN FINAL LIFT OF HMAC IS PLACED, CONTRACTOR TO SET A BLUE REFLECTOR BUTTON FOR THE FIRE DEPARTMENT. SEE DRAWING 650–4 FOR PLACEMENT
4. USE MJ OR FLG VALVE & TEE AS NEEDED TO PLACE VALVE BOX OUTSIDE OF WHEEL PATH.

Beaverton ENGINEERING	FIRE HYDRANT ASSEMBLY INSTALLATION	SCALE: NONE	650-2
		DATE: JUNE 2018	



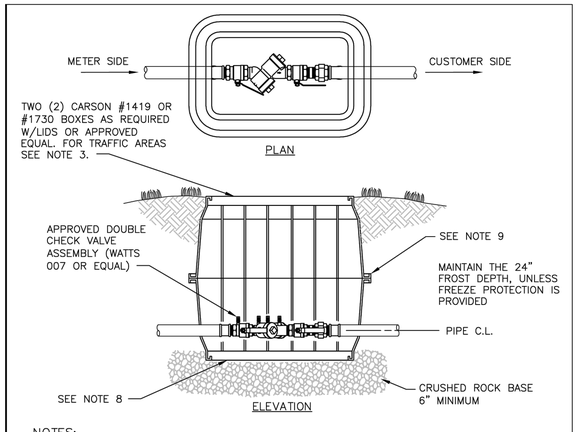
KEYNOTES:

1. WATER MAIN
2. TAPPING SADDLE W/2" THREADED OUTLET
3. 2" x 4" BRASS NIPPLE
4. 2" GATE VALVE w/2" OPERATING NUT FIPT x FIPT
5. SEE APPROVED MATERIALS LIST
6. VALVE BOX PER 540–2
7. 2" TYPE K RIGID COPPER PIPE
8. 2" CTS x CTS 90° ELL
9. USE 2" CTS x MIPT COUPLING
10. 1 1/2" OR 2" WATER METER WITH AUTOMATED METER READER (AMR)
11. WATER METER BOX 17" x 30" x 18" DEEP
12. 4" PVC PIPE, LENGTH AS REQUIRED
13. 8"x8"x8" CONC. PIER BLOCK OR EQUIVALENT SUPPORT ON UNDISTURBED EARTH

NOTES:

1. SERVICE LINES BETWEEN THE WATER MAIN AND THE METER SHALL HAVE 30" OF COVER FOR IMPROVED AREAS AND 42" OF COVER FOR UNIMPROVED AREAS.
2. ALL FITTINGS SHOWN SHALL BE BRASS OR COPPER.
3. WATER OPERATIONS WILL INSTALL METER AFTER WATER MAIN HAS BEEN APPROVED FOR PUBLIC USE, REQUIRED FEES HAVE BEEN PAID, AND ALL BACKFLOW PREVENTION REQUIREMENTS HAVE BEEN MET.
4. ALL SERVICE LINES SHALL BE INSTALLED PRIOR TO PRESSURE TESTING.

Beaverton ENGINEERING	1½" AND 2" SERVICE CONNECTION	SCALE: NONE	660-5
		DATE: JUNE 2018	



NOTES:

1. PLACE DC WITHIN PROPERTY LINE AS CLOSE TO METER AS POSSIBLE WITH NO CONNECTIONS OR TEES BETWEEN METER AND DC.
2. BACKFLOW PREVENTION ASSEMBLIES FOR THE PROTECTION OF THE PUBLIC WATER SYSTEM SHALL MEET THE REQUIREMENTS SET FORTH IN THE CURRENT EDITIONS OF OREGON ADMINISTRATIVE RULES (OAR) CHAPTER 333–061–0070 AND THE OREGON PLUMBING SPECIALTY CODE (OPSC).
3. ALL BOXES LOCATED IN TRAFFIC AREAS SHALL BE RATED FOR THE ANTICIPATED LOADS AND FURNISHED WITH APPROVED TRAFFIC–RATED COVERS.
4. DC'S SHALL BE READILY ACCESSIBLE WITH ADEQUATE SPACE FOR TESTING AND MAINTENANCE. PROVIDE AT LEAST 6 INCHES OF CLEARANCE ON BOTH SIDES AND BELOW THE DC.
5. WHEN THE DC IS INSTALLED BELOW GROUND, THE TEST PORTS MUST NOT FACE DOWNWARD. TEST PORTS MUST BE PROVIDED WITH PLASTIC OR BRASS PLUGS.
6. THE DC SHALL BE INSTALLED AT A MAXIMUM DEPTH OF 24 INCHES BELOW GROUND. IF FREEZE PROTECTION IS PROVIDED, THE 24 INCH DEPTH MAY BE REDUCED.
7. CONTACT CITY OF BEAVERTON BUILDING DEPARTMENT FOR THE REQUIRED PLUMBING PERMIT.
8. UPON COMPLETION OF INSTALLATION, THE DC MUST BE TESTED BY A STATE CERTIFIED BACKFLOW TESTER.
9. CONNECT BOXES TOGETHER WITH CORROSION–RESISTANT FASTENERS TO FORM A SINGLE ENCLOSURE. SECURE THE LID OF THE LOWER BOX TO PREVENT DEBRIS FROM ENTERING.
10. CONSULT WITH BUILDING DEPARTMENT FOR PROPER SIZING OF DC.

Beaverton ENGINEERING	1¼" TO 2" DOUBLE CHECK VALVE ASSEMBLY (DC)	SCALE: NONE	690-3B
		DATE: JUNE 2018	

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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02/10/2026
DRAWN BY: MNH

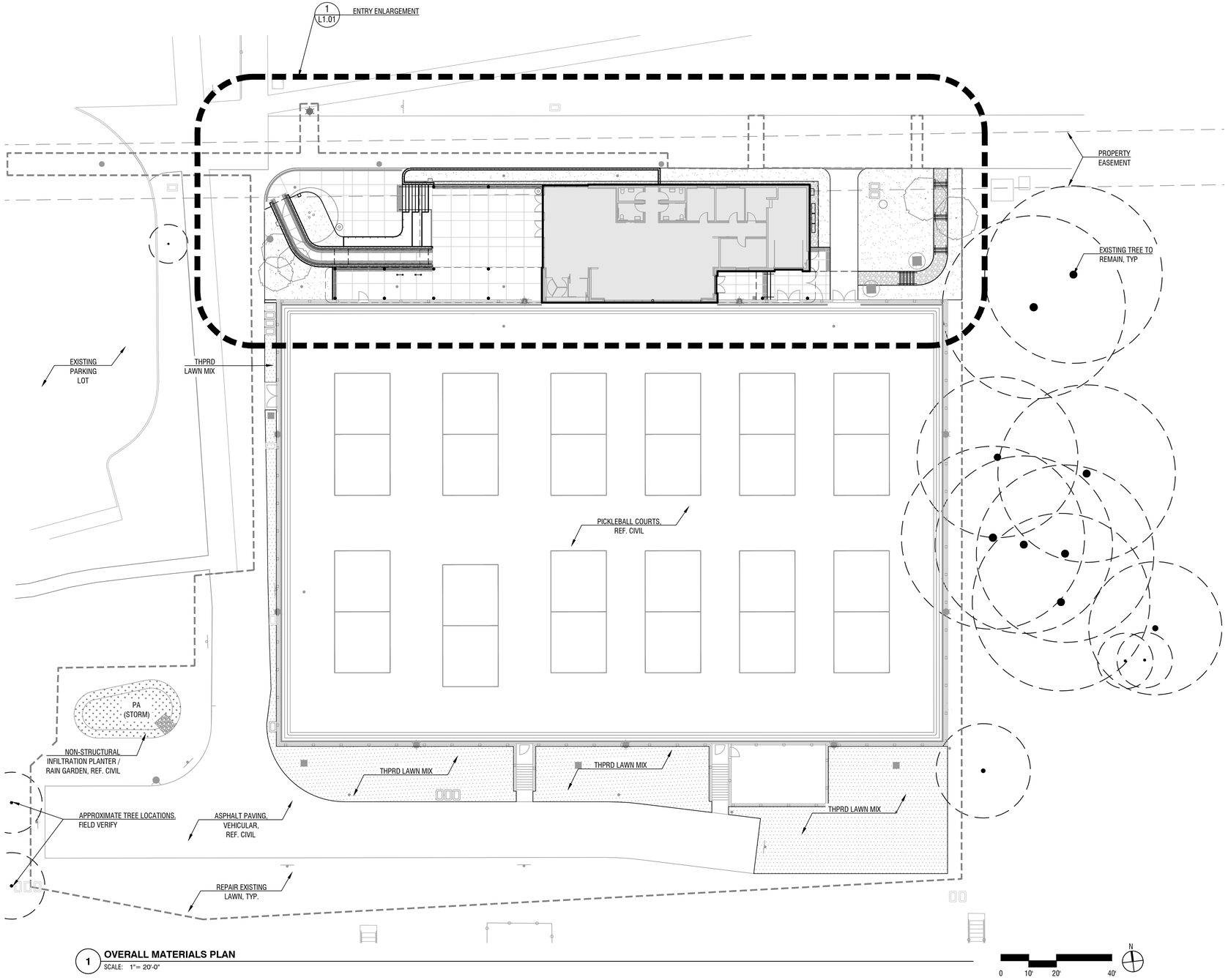
BID SET

REVISIONS:

REGISTERED PROFESSIONAL ENGINEER
97708PE
Austin Cole 2026.02.10 15:09:16-08'00'
OREGON
SEPTEMBER 9, 2014
AUSTIN MORGAN COLE
RENEWS: DECEMBER 31, 2027

WATER DETAILS

C506



1 **OVERALL MATERIALS PLAN**
SCALE: 1"= 20'-0"

GENERAL LEGEND

- LIMIT OF WORK
- PA — PLANTING AREA
- PA — STORMWATER PLANTING AREA
- THPRD LAWN MIX
- 1/4 MINUS AGGREGATE
- TREE TO REMAIN
- CIP THICKENED EDGE OR CIP CURB BELOW PAVING
- JUNCTION BOX, REF. ELECTRICAL
- IRRIGATION VALVE ASSEMBLIES
- EXISTING VALVE ASSEMBLIES TO REMAIN

ABBREVIATIONS

ARCH	ARCHITECTURAL/ARCHITECT
BLDG	BUILDING
CAL	CALIPER
CIP	CAST-IN-PLACE
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
DIA	DIAMETER
DBH	DIAMETER AT BREAST HEIGHT
DWG	DRAWINGS
EQ	EQUAL
HT	HEIGHT
L.A.	LANDSCAPE ARCHITECT
MIN.	MINIMUM
N/A	NOT APPLICABLE
NO.	NUMBER
NOM	NOMINAL
OC	ON CENTER
PA	PLANTING AREA
R	RADIUS
REF	REFERENCE
SF	SQUARE FEET
SIM	SIMILAR
TYP.	TYPICAL
W/	WITH

GENERAL NOTES

1. LANDSCAPE DOCUMENTS ARE BASED ON A SURVEY BY AKS ENGINEERING & FORESTRY, INC., DATED SEPTEMBER 10TH AND 11TH, 2023.
2. NOTIFY OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES IDENTIFIED ON SITE RELATED TO SURVEY INFORMATION PRIOR TO INSTALLATION.
3. REFERENCE CIVIL DRAWINGS FOR TREE PROTECTION PLAN FOR TREES TO REMAIN.
4. REFERENCE CIVIL DRAWINGS FOR DEMOLITION PLANS AND SALVAGE NOTES.
5. REFERENCE CIVIL DRAWINGS FOR VEHICULAR PAVING, FIRE LANE, AND PICKLEBALL COURTS.
6. REFERENCE ARCHITECTURAL DRAWINGS FOR BUILDING PLANS AND DETAILS.
7. REFERENCE PLANTING PLANS FOR DETAILED PLANTING LAYOUT.

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FIELDWORK DESIGN & ARCHITECTURE
1732 SE HAWTHORNE BLVD
PORTLAND, OREGON 97214
503.360.1437

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Range Studio, LLC
2222 NE Oregon St
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971 268 8510
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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02.10.2026
DRAWN BY: CLC, BIS

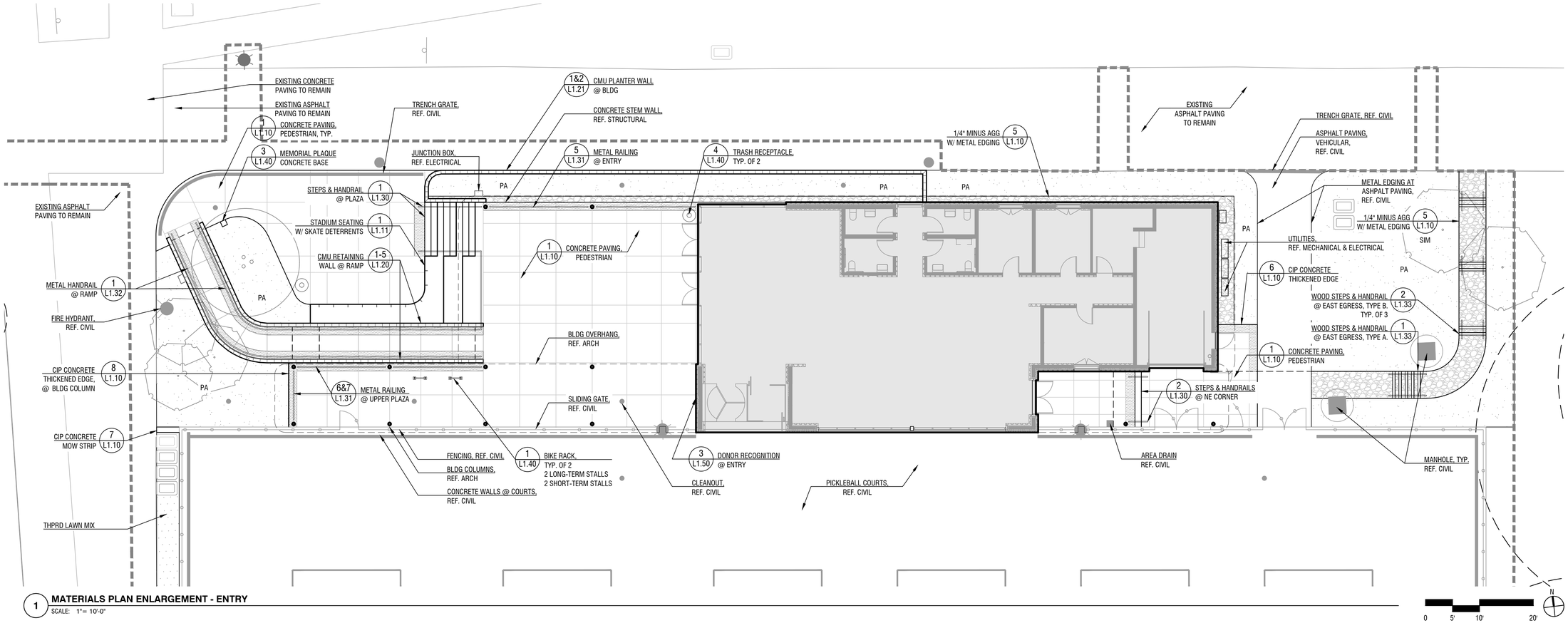
BID SET

REVISIONS:

REGISTERED
995
Cami Culbertson
OREGON
11/08/2018
LANDSCAPE ARCHITECT

OVERALL
MATERIALS PLAN

L1.00



1 **MATERIALS PLAN ENLARGEMENT - ENTRY**
SCALE: 1"= 10'-0"

GENERAL LEGEND

- LIMIT OF WORK
- PA — PLANTING AREA
- PA — STORMWATER PLANTING AREA
- THPRD LAWN MIX
- 1/4 MINUS AGGREGATE
- TREE TO REMAIN
- CIP THICKENED EDGE OR CIP CURB BELOW PAVING
- JUNCTION BOX, REF. ELECTRICAL
- IRRIGATION VALVE ASSEMBLIES
- EXISTING VALVE ASSEMBLIES TO REMAIN

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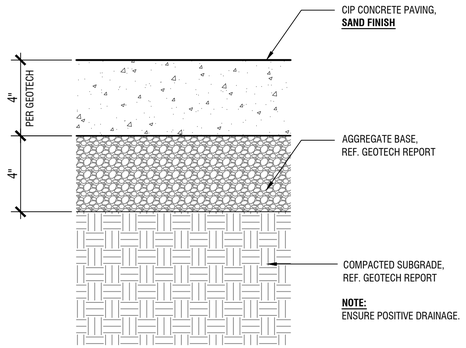
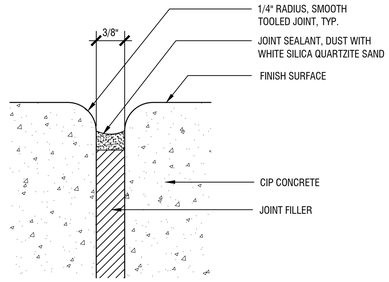
MATERIALS PLAN - ENTRY

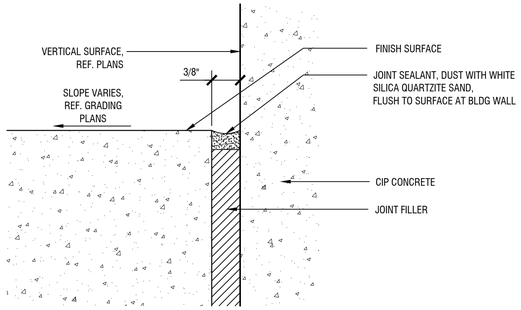
L1.01



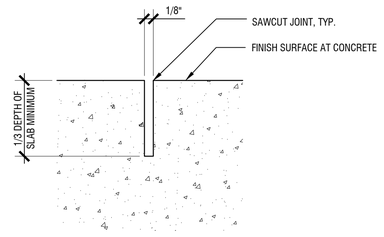
1 CIP CONCRETE PAVING, PEDESTRIAN
SCALE: 1/4" = 1'-0"



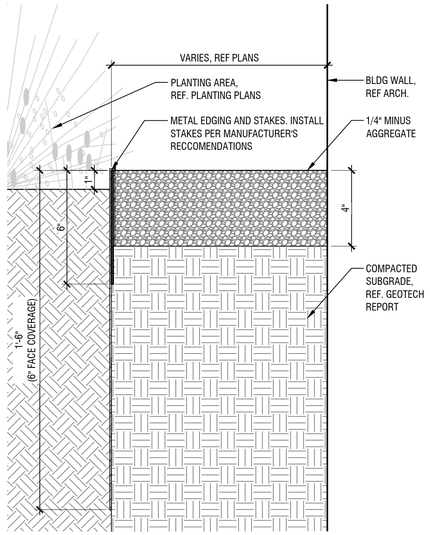
2 EXPANSION JOINT - SECTION
SCALE: 1" = 0'-1"

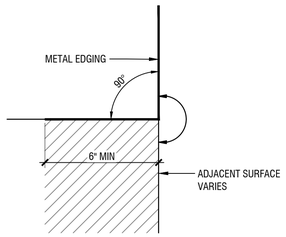


3 ISOLATION JOINT @ VERTICAL EDGE - SECTION
SCALE: 1" = 0'-1"



4 CONTROL JOINT - SECTION
SCALE: 1" = 0'-1"

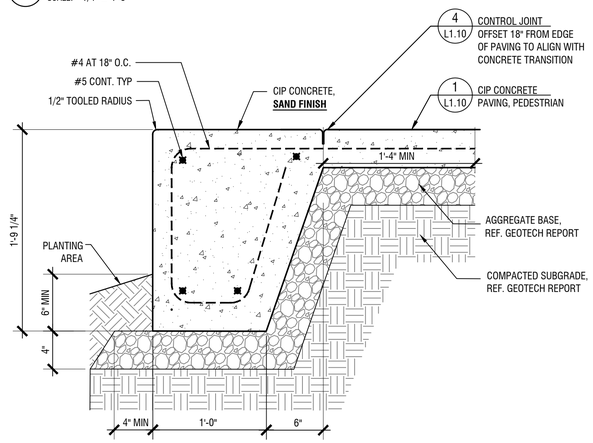




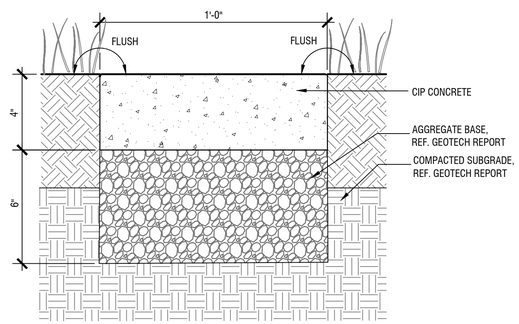
NOTE:
USE PRE-FORMED CORNERS WHEN AVAILABLE. IF NOT AVAILABLE, USE A HACKSAW TO SCORE THE CONNECTION CHANNELS, LAY ON A HARD SURFACE PLACING A BRICK OR 4X4 OVER THE CUT. BEND UP TO THE DESIRED ANGLE USING A HAMMER TO STIFFEN THE ANGLE.

METAL EDGING AT VERTICAL EDGE

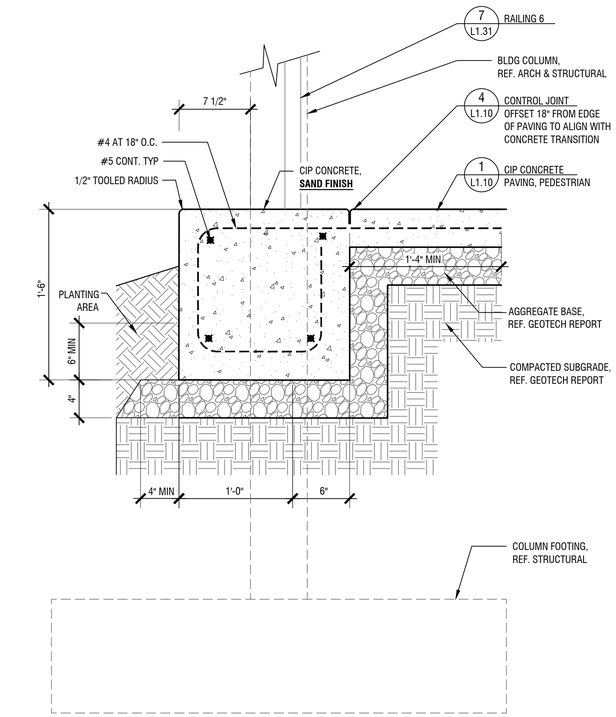
5 1/4" MINUS AGG W/ METAL EDGING - SECTION
SCALE: 1/4" = 1'-0"



6 CIP CONCRETE THICKENED EDGE - SECTION
SCALE: 1-1/2" = 1'-0"



7 CIP CONCRETE MOW STRIP - SECTION
SCALE: 1/4" = 1'-0"



8 CIP CONCRETE THICKENED EDGE @ BLDG COLUMN - SECTION
SCALE: 1-1/2" = 1'-0"

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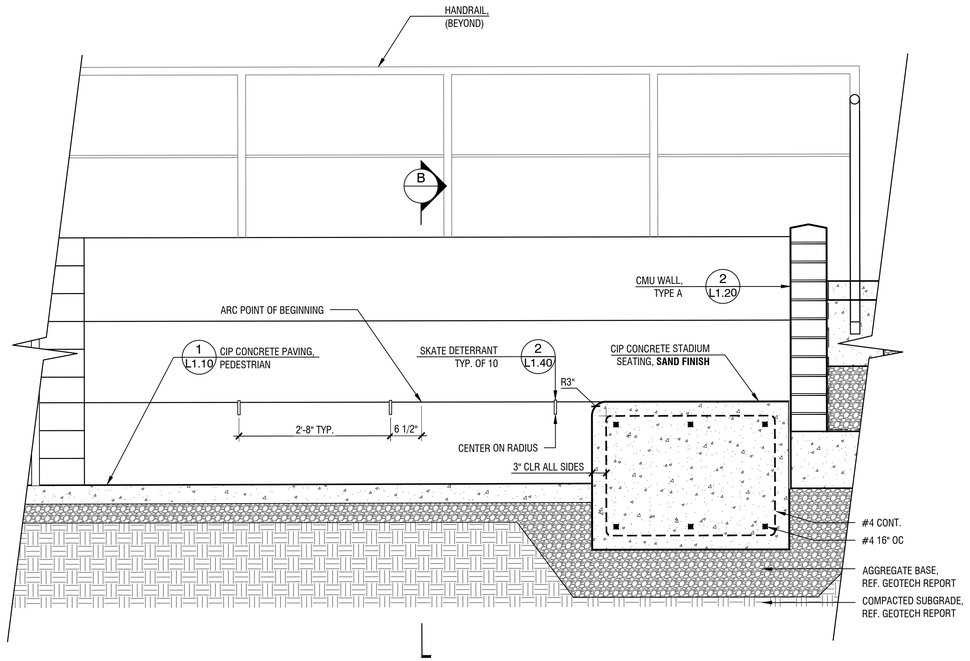
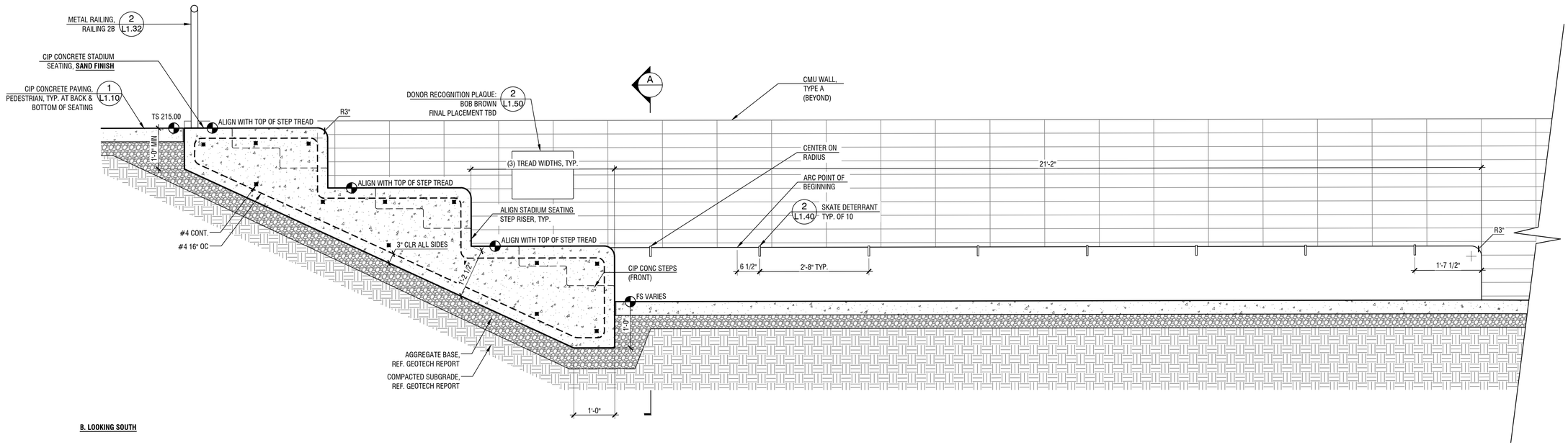
LANDSCAPE DETAILS

L1.10



A. LOOKING EAST



B. LOOKING SOUTH

1 **STADIUM SEATING - SECTION**
SCALE: 3/4" = 1'-0"

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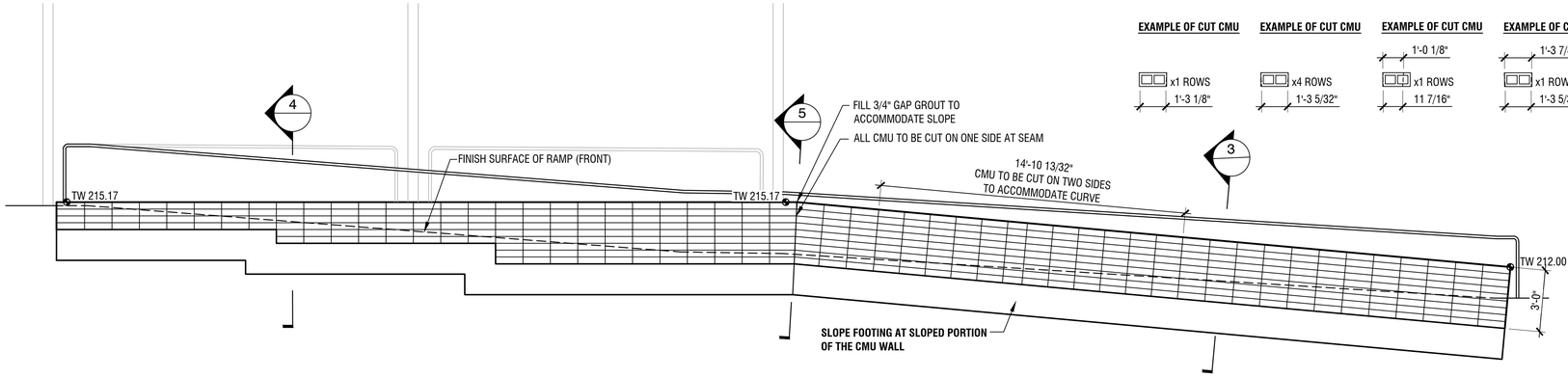
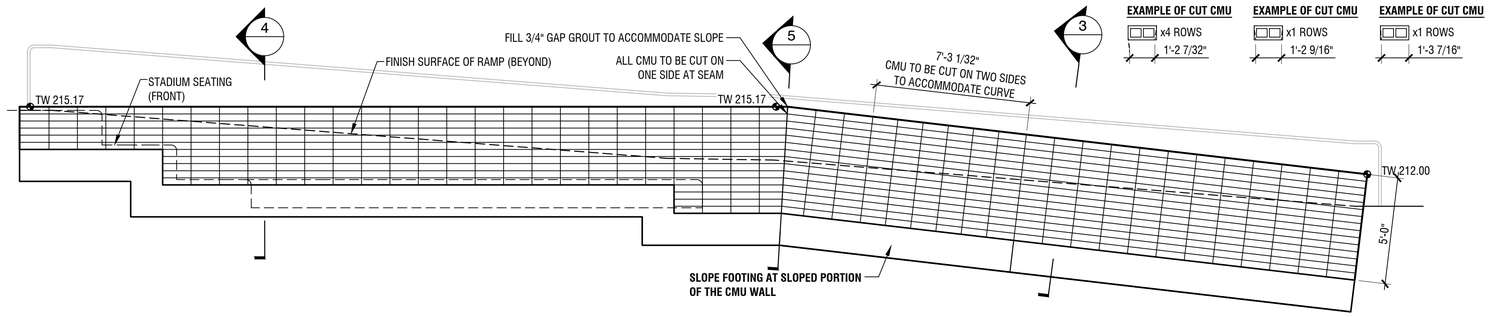
LANDSCAPE DETAILS

L1.11



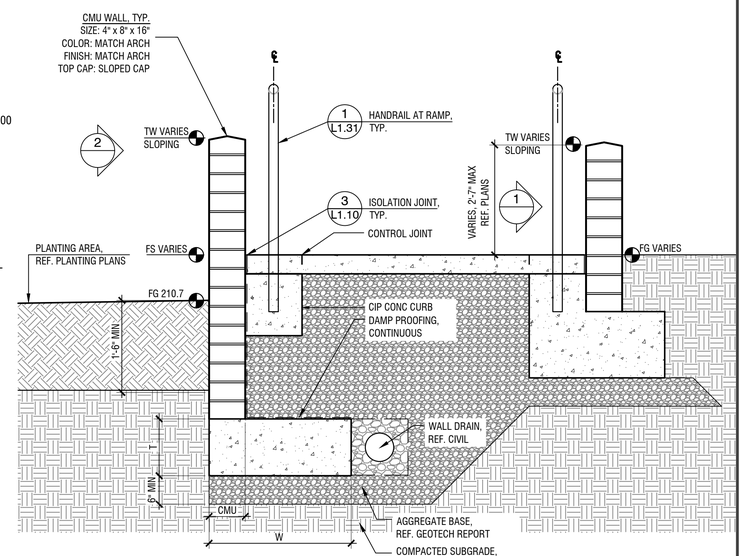
1 CMU WALL @ RAMP, SOUTH (STRAIGHTENED) - ELEVATION

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



2 CMU WALL @ RAMP, NORTH (STRAIGHTENED) - ELEVATION

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

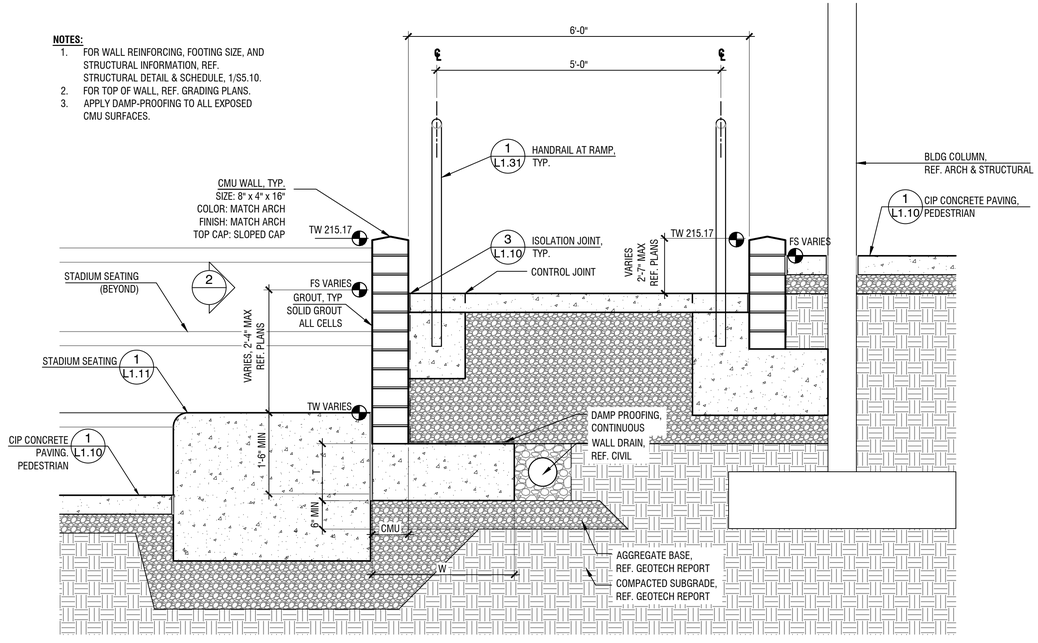


NOTES:

1. FOR WALL REINFORCING, FOOTING SIZE, AND STRUCTURAL INFORMATION, REF. STRUCTURAL DETAIL & SCHEDULE, 1/S5.10.
2. FOR TOP OF WALL, REF. GRADING PLANS.
3. APPLY DAMP-PROOFING TO ALL EXPOSED CMU SURFACES.

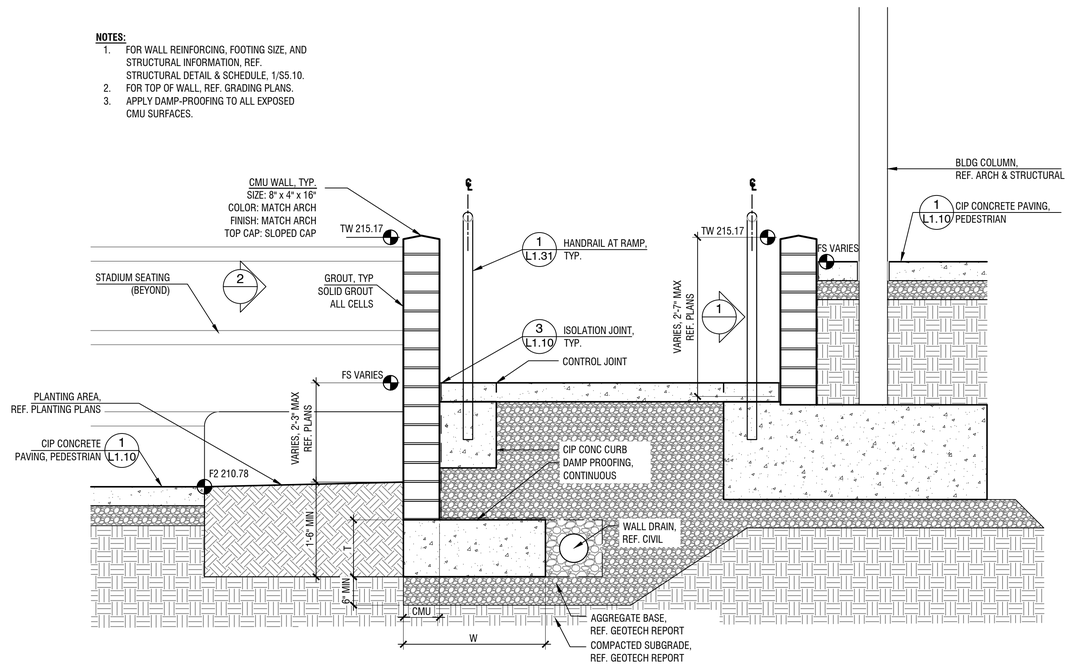
3 CMU WALL @ RAMP WITH PLANTING, TYPE B - SECTION

SCALE: 3/4" = 1'-0"



4 CMU WALL @ RAMP WITH STADIUM SEATING - SECTION

SCALE: 3/4" = 1'-0"



5 CMU WALL @ RAMP WITH PLANTING, TYPE A - SECTION

SCALE: 3/4" = 1'-0"

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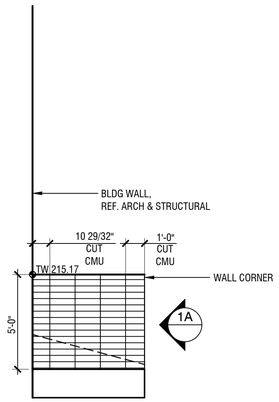
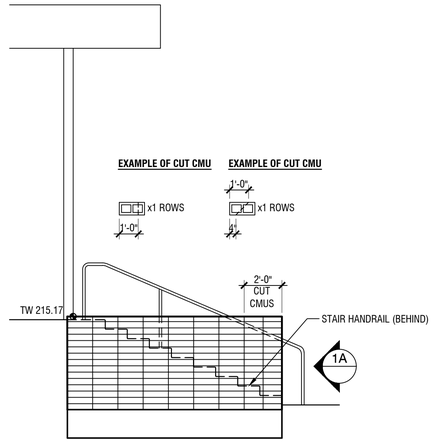
LANDSCAPE DETAILS

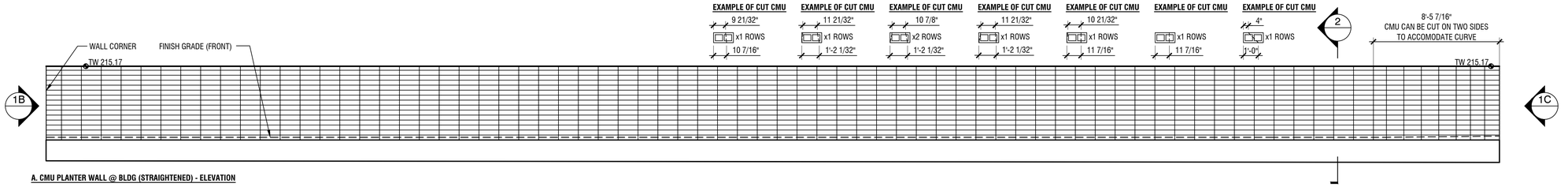
L1.20



B. CMU PLANTER WALL @ BLDG - ELEVATION



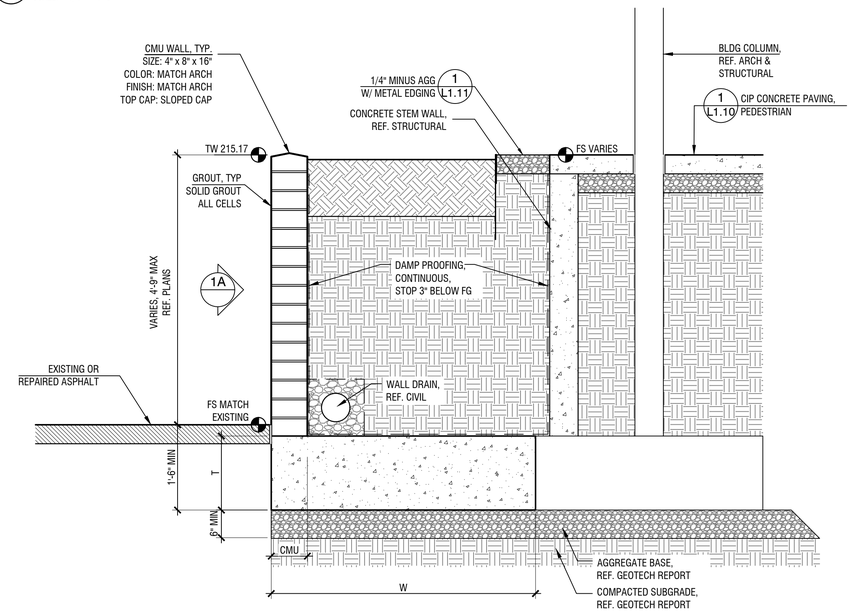
C. CMU PLANTER WALL @ BLDG - ELEVATION



A. CMU PLANTER WALL @ BLDG (STRAIGHTENED) - ELEVATION

1 CMU PLANTER WALL @ BLDG - ELEVATION

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



NOTES:

1. FOR WALL REINFORCING, FOOTING SIZE, AND STRUCTURAL INFORMATION, REF. STRUCTURAL DETAIL & SCHEDULE, 1/S5.10.
2. FOR TOP OF WALL, REF. GRADING PLANS.
3. APPLY DAMP-PROOFING TO ALL EXPOSED CMU SURFACES.

2 CMU PLANTER WALL @ BLDG - SECTION

SCALE: 3/4" = 1'-0"

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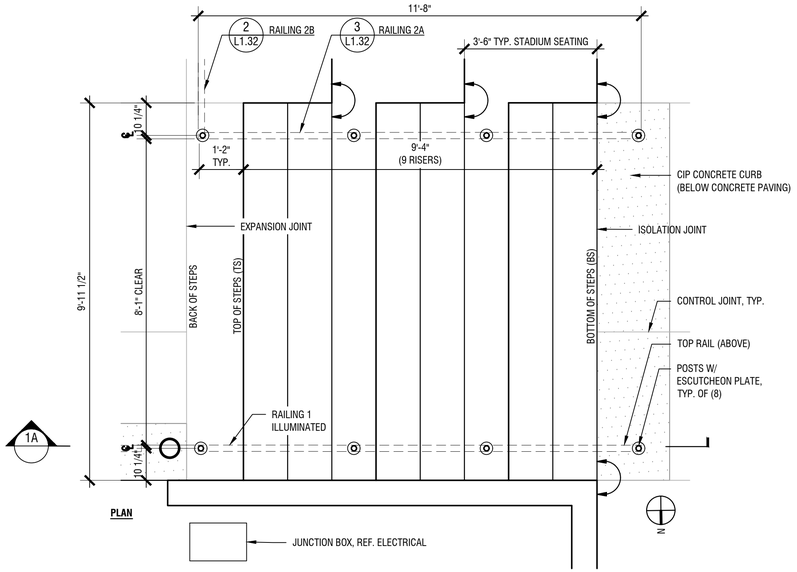
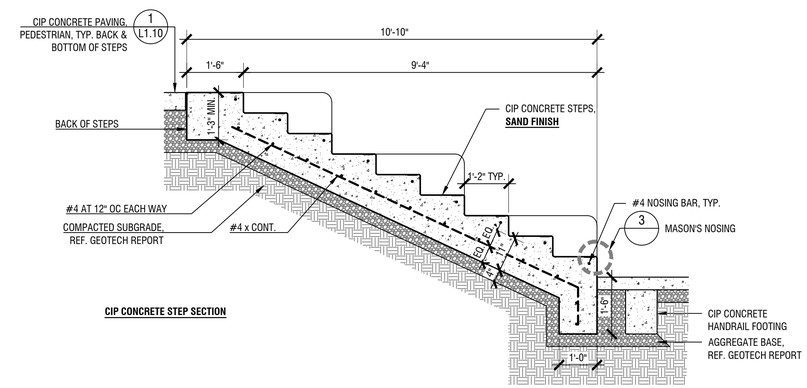
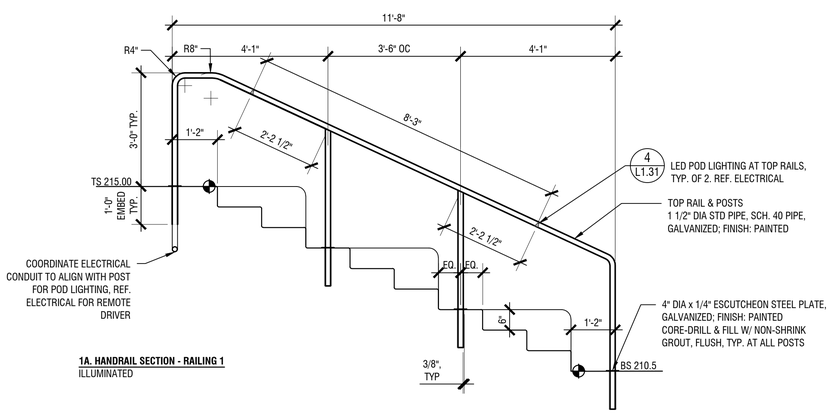
L1.21





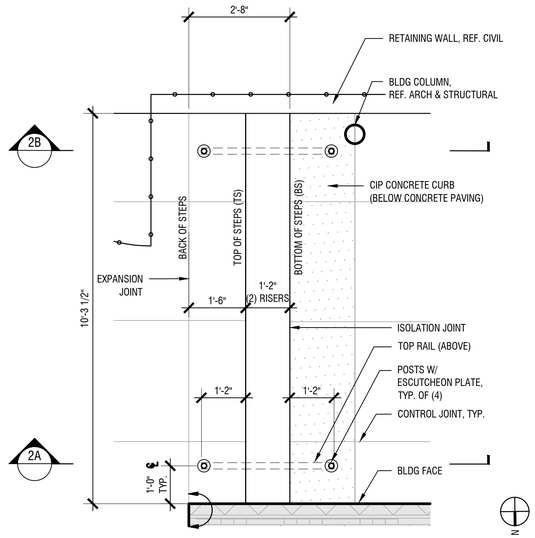
CIP CONCRETE STEP SECTION

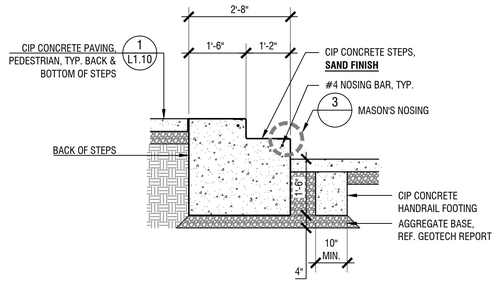


1A. HANDRAIL SECTION - RAILING 1 ILLUMINATED

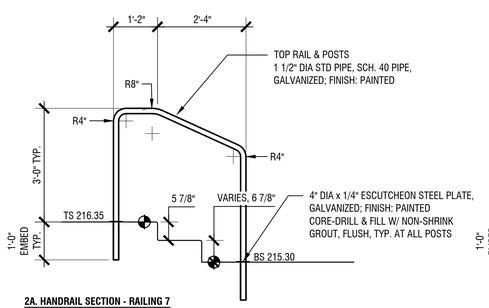
1 STEPS & HANDRAIL @ PLAZA, ILLUMINATED

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

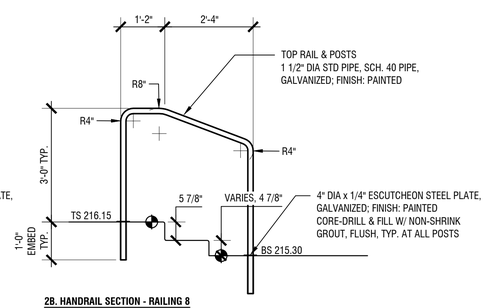




CIP CONCRETE STEP SECTION



2A. HANDRAIL SECTION - RAILING 7



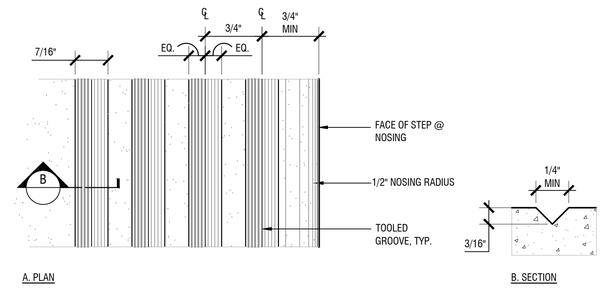
2B. HANDRAIL SECTION - RAILING 8

2 STEPS & HANDRAILS @ NE CORNER

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

STEPS & HANDRAIL NOTES

1. ALL STAIR RISERS TO BE SAME HEIGHT. DIVIDE DIFFERENCE BETWEEN TOP OF STAIR AND BOTTOM OF STAIR EQUALLY, INCLUDING 1.0% FOR DRAINAGE ON TREADS.
2. CONCRETE PER SPEC SECTION 32 13 13 - CONCRETE PAVING.
3. SHOP WELD TO COMPLETE PENETRATION. GRIND WELDS SMOOTH.
4. HANDRAIL ASSEMBLY TO BE GALVANIZED AFTER FABRICATION & PAINTED. PROVIDE SMOOTH SEAMLESS FINISH WITH NO SURFACE IMPERFECTIONS.
5. ALL MORTAR/SEALANTS SHALL BE CLEANED FROM STEEL TUBING AND ADJACENT SURFACES.
6. PROVIDE SHOP DRAWINGS SHOWING ALL DIMENSIONS, MATERIALS, JOINTS, CONNECTIONS, FINISHES, ETC. TO BE SUBMITTED FOR APPROVAL, REF. SPECS.
7. FOR MORTAR TYPE, REF. SPECS.
8. PROVIDE MORTAR COLOR SAMPLES FOR APPROVAL PRIOR TO INSTALLATION.
9. COORDINATE LOCATIONS AND PATH OF ELECTRICAL CONDUIT AND WIRING PRIOR TO FABRICATION.



A. PLAN

B. SECTION

3 MASON'S NOSING

SCALE: NTS

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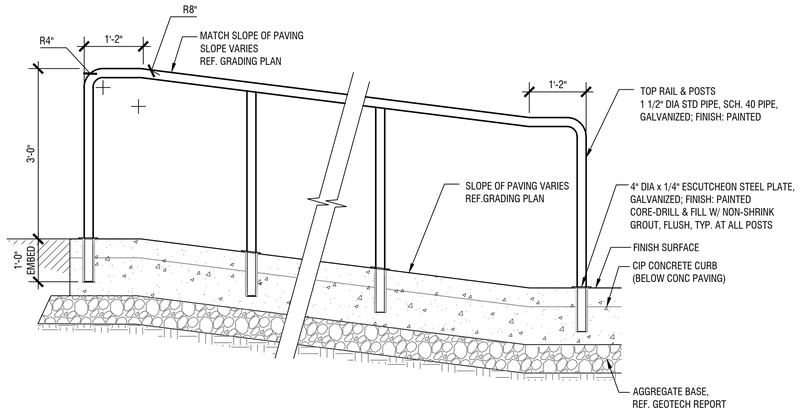
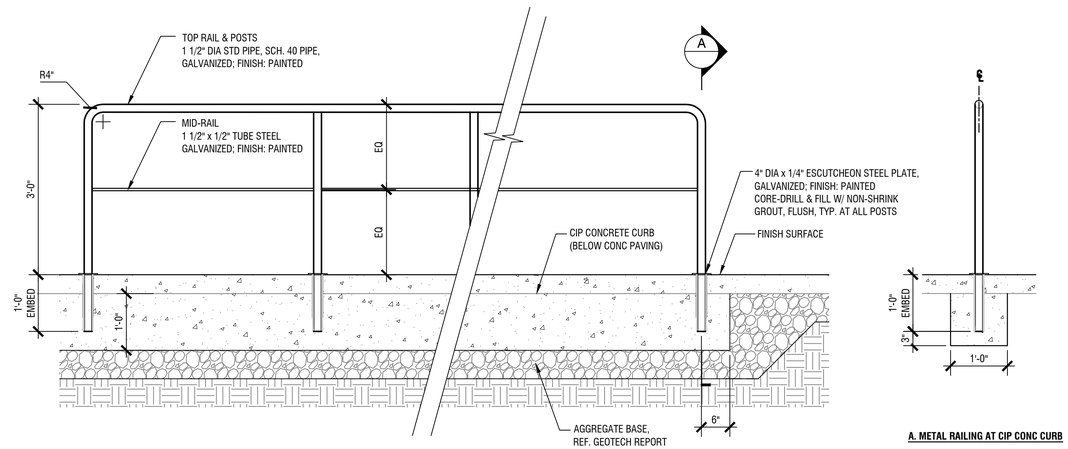
L1.30



1 METAL HANDRAIL @ RAMP, TYPICAL - SECTION
SCALE: 1/2" = 1'-0"



A. METAL RAILING AT CIP CONC CURB

2 METAL RAILING, TYPICAL - SECTION
SCALE: 1" = 1'-0"

RAILING NOTES

1. SHOP WELD TO COMPLETE PENETRATION. GRIND WELDS SMOOTH.
2. HANDRAIL ASSEMBLY TO BE GALVANIZED AFTER FABRICATION & PAINTED. PROVIDE SMOOTH SEAMLESS FINISH WITH NO SURFACE IMPERFECTIONS.
3. ALL MORTAR/SEALANTS SHALL BE CLEANED FROM STEEL TUBING AND ADJACENT SURFACES.
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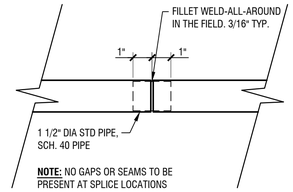
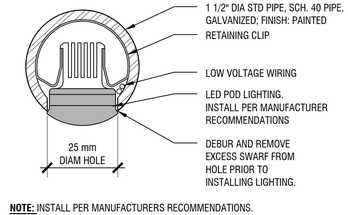
7. COORDINATE LOCATIONS AND PATH OF ELECTRICAL CONDUIT AND WIRING PRIOR TO FABRICATION.



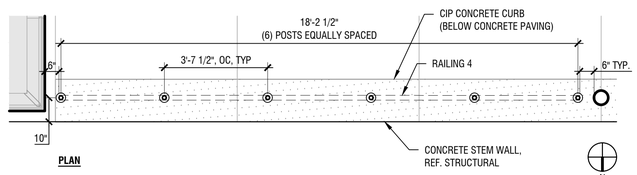
NOTE: NO GAPS OR SEAMS TO BE PRESENT AT SPLICE LOCATIONS

3 HANDRAIL SPLICE, TYPICAL
SCALE: 3" = 1'-0"

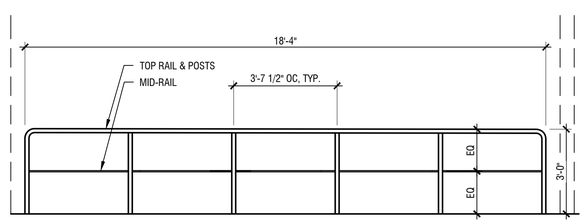


NOTE: INSTALL PER MANUFACTURERS RECOMMENDATIONS.

4 LED POD LIGHTING @ HANDRAIL - SECTION
SCALE: 1" = 1' - 0"

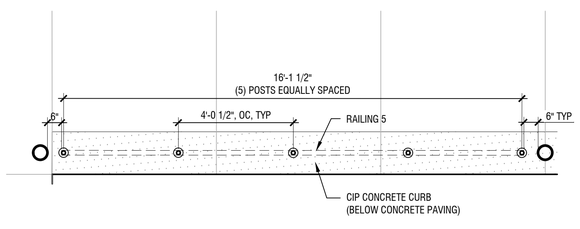


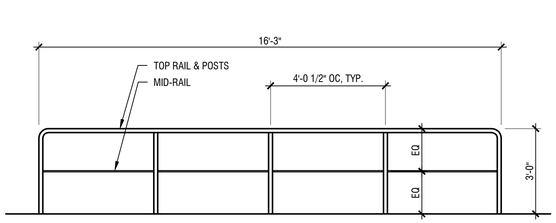
PLAN



RAILING ELEVATION - RAILING 4
TYPICAL OF 2

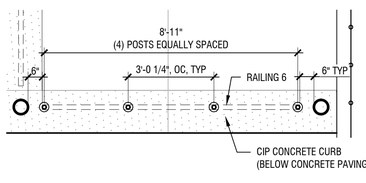
5 METAL RAILINGS @ ENTRY
SCALE: 3/8" = 1'-0"

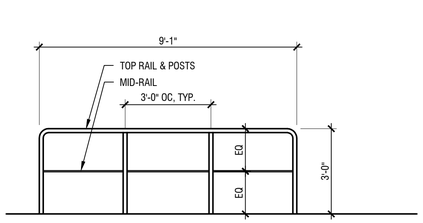




RAILING ELEVATION - RAILING 5
TYPICAL OF 2

6 METAL RAILING @ UPPER PLAZA
SCALE: 3/8" = 1'-0"





RAILING ELEVATION - RAILING 6

7 METAL RAILING @ UPPER PLAZA
SCALE: 3/8" = 1'-0"

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15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02.10.2026
DRAWN BY: CLC, BIS

BID SET

REVISIONS:

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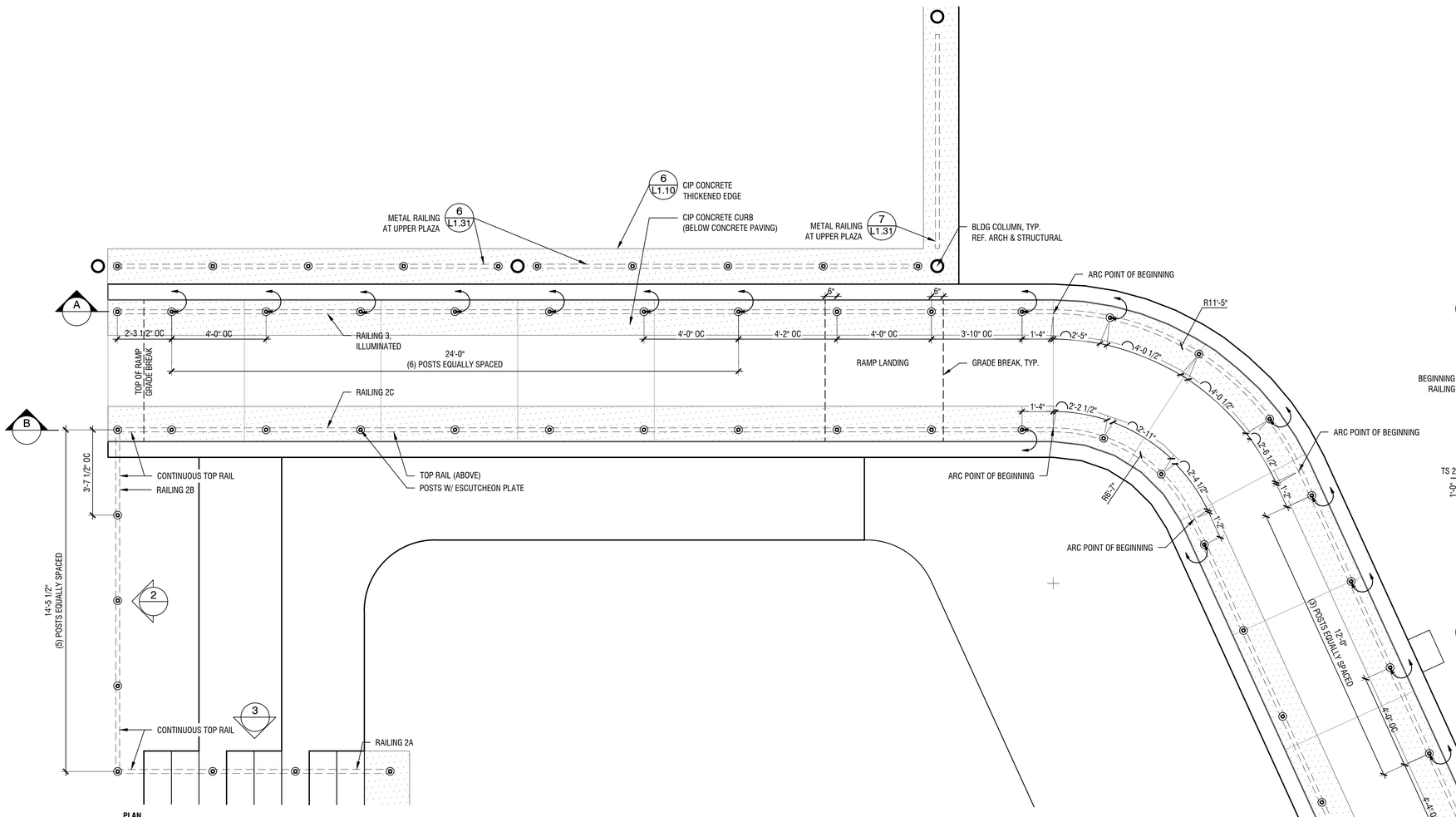
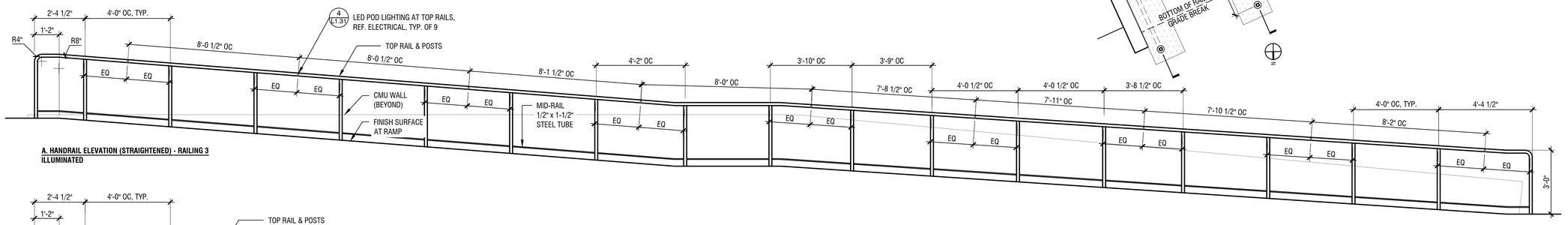
Cami Culbertson
OREGON
11/08/2018
LANDSCAPE ARCHITECT

LANDSCAPE DETAILS

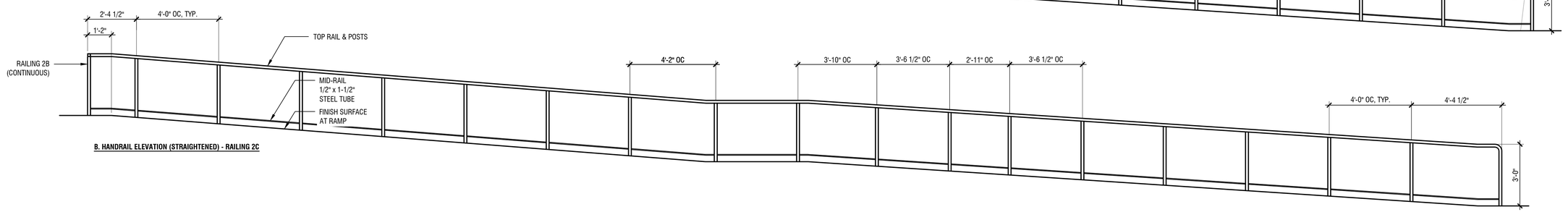
L1.31



PLAN



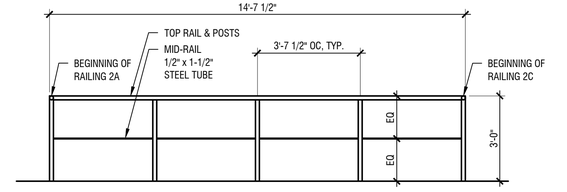
A. HANDRAIL ELEVATION (STRAIGHTENED) - RAILING 3 ILLUMINATED



B. HANDRAIL ELEVATION (STRAIGHTENED) - RAILING 2C

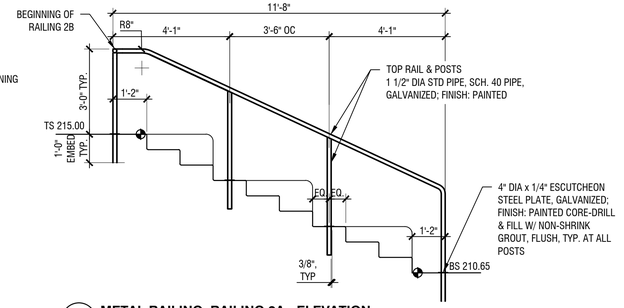
1 METAL HANDRAIL @ RAMP

SCALE: 3/8" = 1'-0"



2 METAL RAILING, RAILING 2B - ELEVATION

SCALE: 3/8" = 1'-0"



3 METAL RAILING, RAILING 2A - ELEVATION

SCALE: 3/8" = 1'-0"

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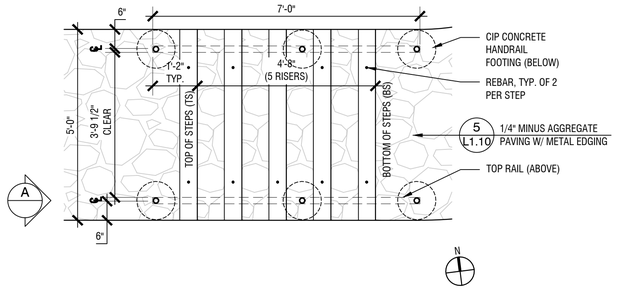
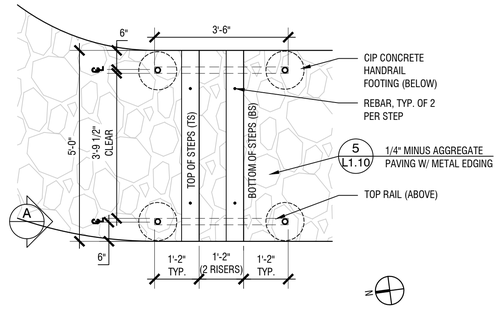
OREGON
11/08/2018
LANDSCAPE ARCHITECT

LANDSCAPE DETAILS

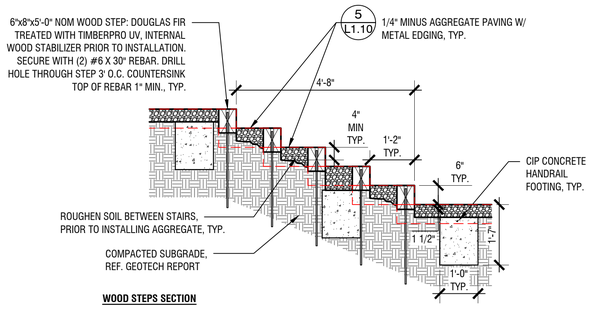
L1.32



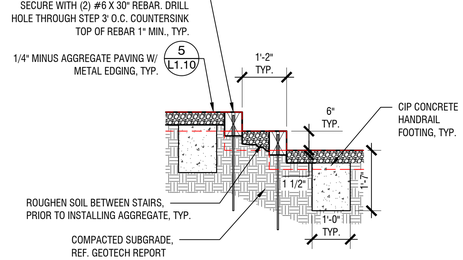
PLAN



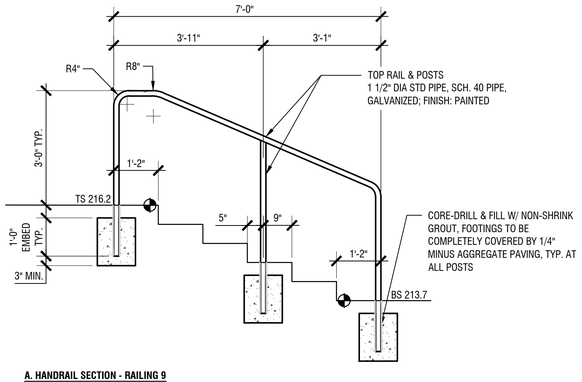
PLAN, TYPICAL



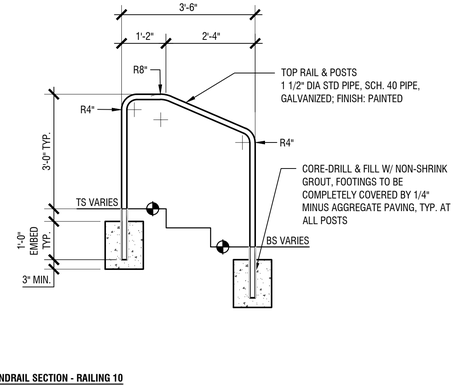
WOOD STEPS SECTION



WOOD STEPS SECTION, TYPICAL



A. HANDRAIL SECTION - RAILING 9
TYPICAL OF 2



A. HANDRAIL SECTION - RAILING 10
TYPICAL OF 6

1 WOOD STEPS & HANDRAIL @ EAST EGRESS, TYPE A
SCALE: 1/2" = 1'-0"

2 WOOD STEPS & HANDRAIL @ EAST EGRESS, TYPE B
SCALE: 1/2" = 1'-0"

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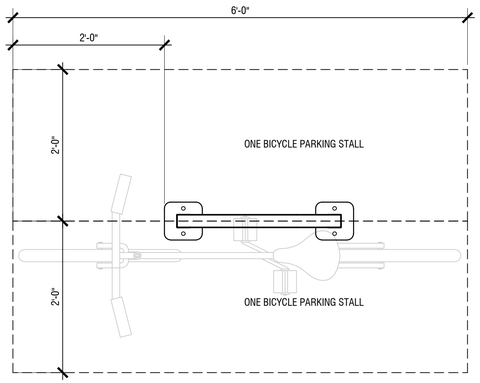
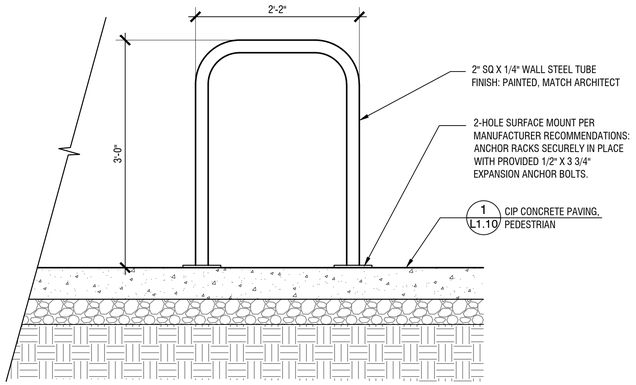


PLAN

NOTE: STALL EXTENTS SHOWN FOR LAYOUT PURPOSES ONLY.

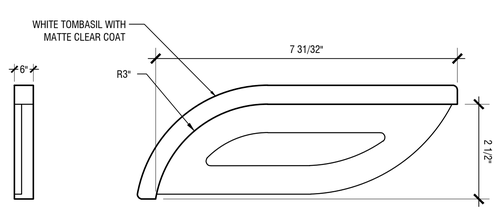


SECTION

NOTE: INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

1 BIKE RACK

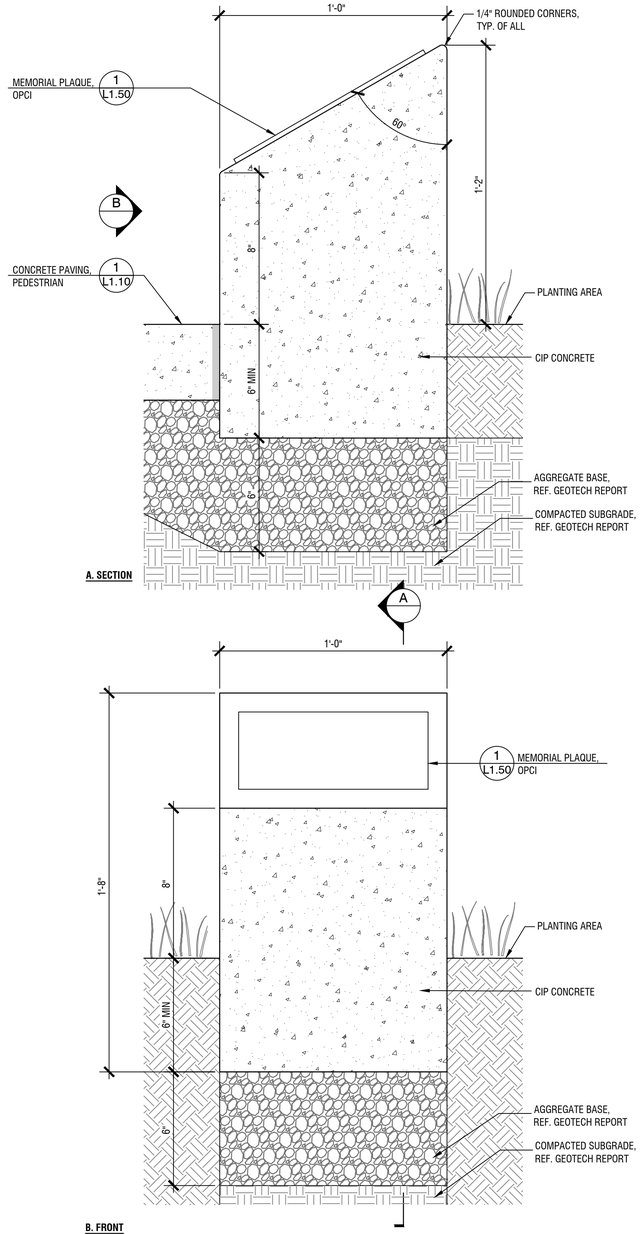
SCALE: 1" = 1'-0"



NOTE: INSTALL PER MANUFACTURERS RECOMMENDATIONS.

2 SKATE DETERRENT - SECTION

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

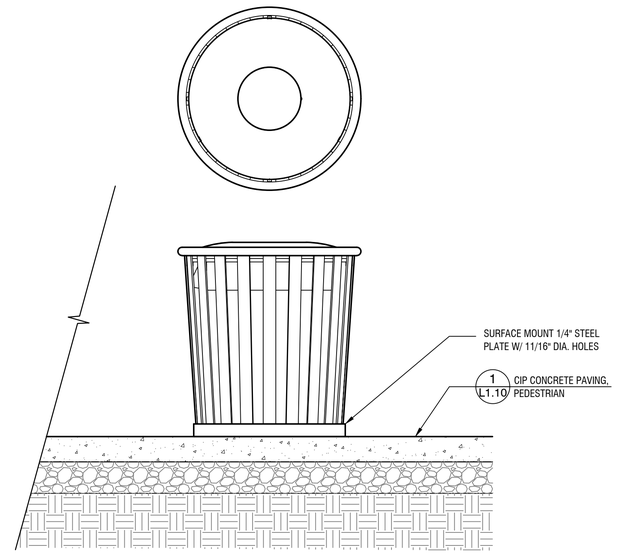


A. SECTION

B. FRONT

3 MEMORIAL PLAQUE CONCRETE BASE

SCALE: 3" = 1'-0"



NOTES:

1. ALL STEEL MEMBERS COATED W/ ZINC RICH EPOXY THEN FINISHED W/ POLYESTER POWDER COATING.
2. INSTALL VIA PROVIDED 1/2" X 3 3/4" EXPANSION ANCHOR BOLTS PER MANUFACTURERS RECOMMENDATIONS.

4 TRASH RECEPTACLE

SCALE: NTS

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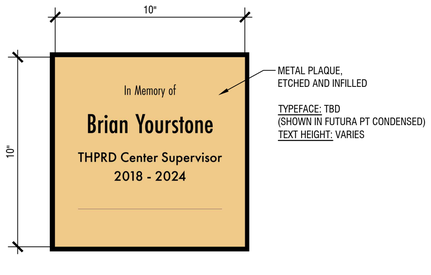
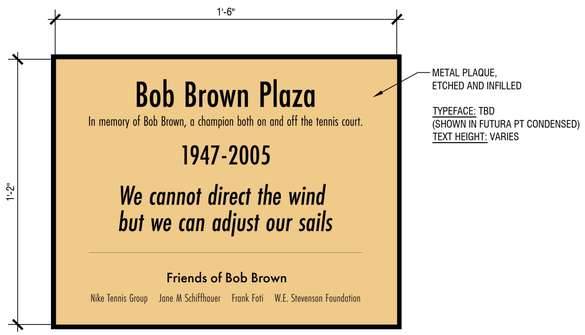
L1.40



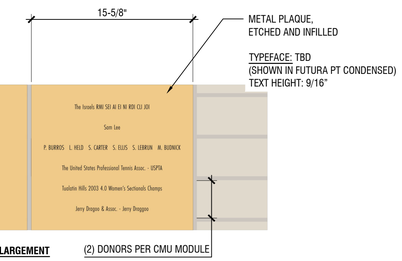
NOTES:
1. MEMORIAL PLAQUE TO BE OWNER-PROVIDED, CONTRACTOR INSTALLED.
2. ATTACHMENT METHOD: TBD.

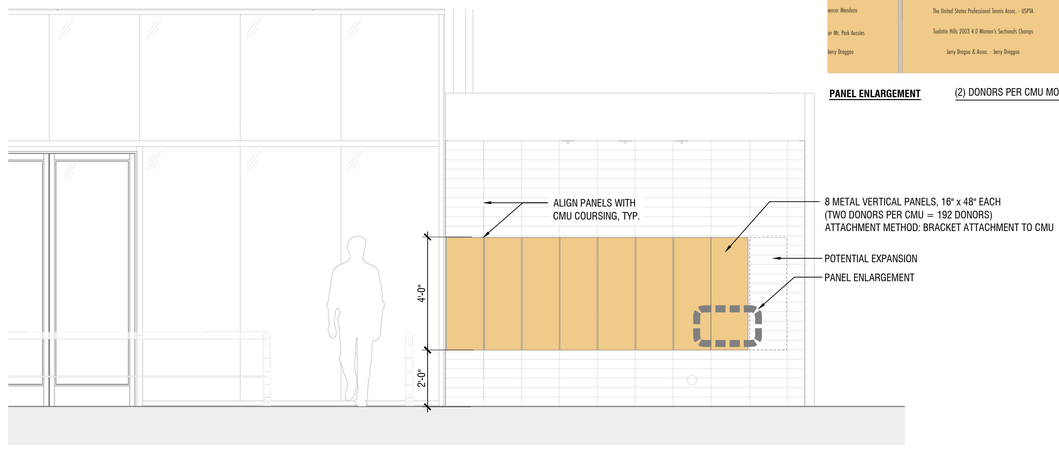
1 MEMORIAL PLAQUE
SCALE: 3" = 1'-0"



NOTES:
1. DONOR RECOGNITION TO BE OWNER-PROVIDED, CONTRACTOR INSTALLED.
2. ATTACHMENT METHOD: BRACKET ATTACHMENT TO CMU.

2 DONOR RECOGNITION PLAQUE: BOB BROWN
SCALE: 1" = 1'-0"





NOTES:
1. DONOR RECOGNITION TO BE OWNER-PROVIDED, CONTRACTOR INSTALLED.
2. ATTACHMENT METHOD: BRACKET ATTACHMENT TO CMU.

3 DONOR RECOGNITION @ ENTRY
SCALE: 1" = 1'-0"

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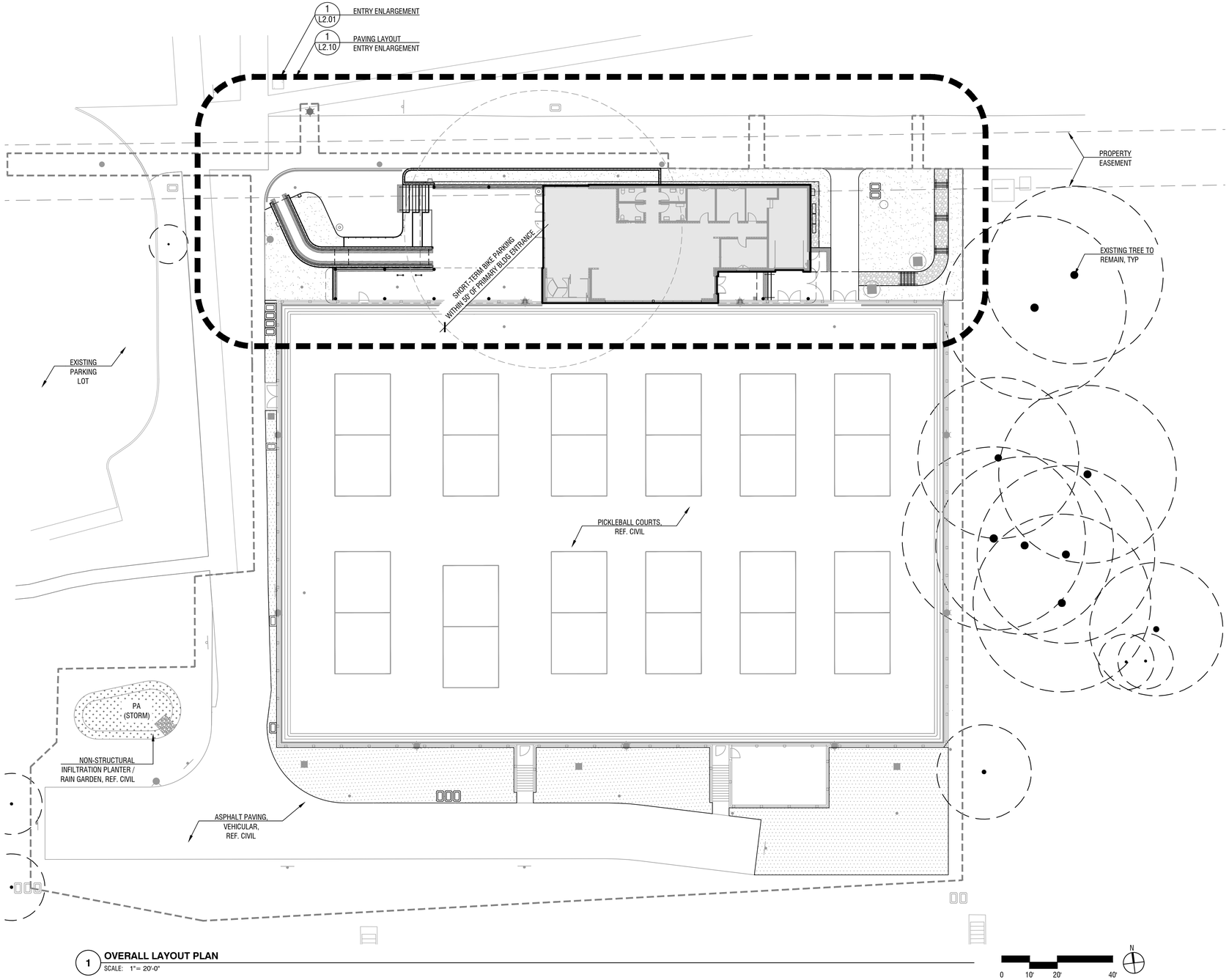
LANDSCAPE DETAILS

L1.50



1 **OVERALL LAYOUT PLAN**
SCALE: 1"= 20'-0"

GENERAL LEGEND

- LIMIT OF WORK
- PA — PLANTING AREA
- PA — STORMWATER PLANTING AREA
- THPRD LAWN MIX
- 1/4" MINUS AGGREGATE
- TREE TO REMAIN

LAYOUT LEGEND

- CENTER LINE
- ALIGN - ACROSS
- ALIGN - FACES
- POINT OF TANGENCY

FWD//
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11/08/2018
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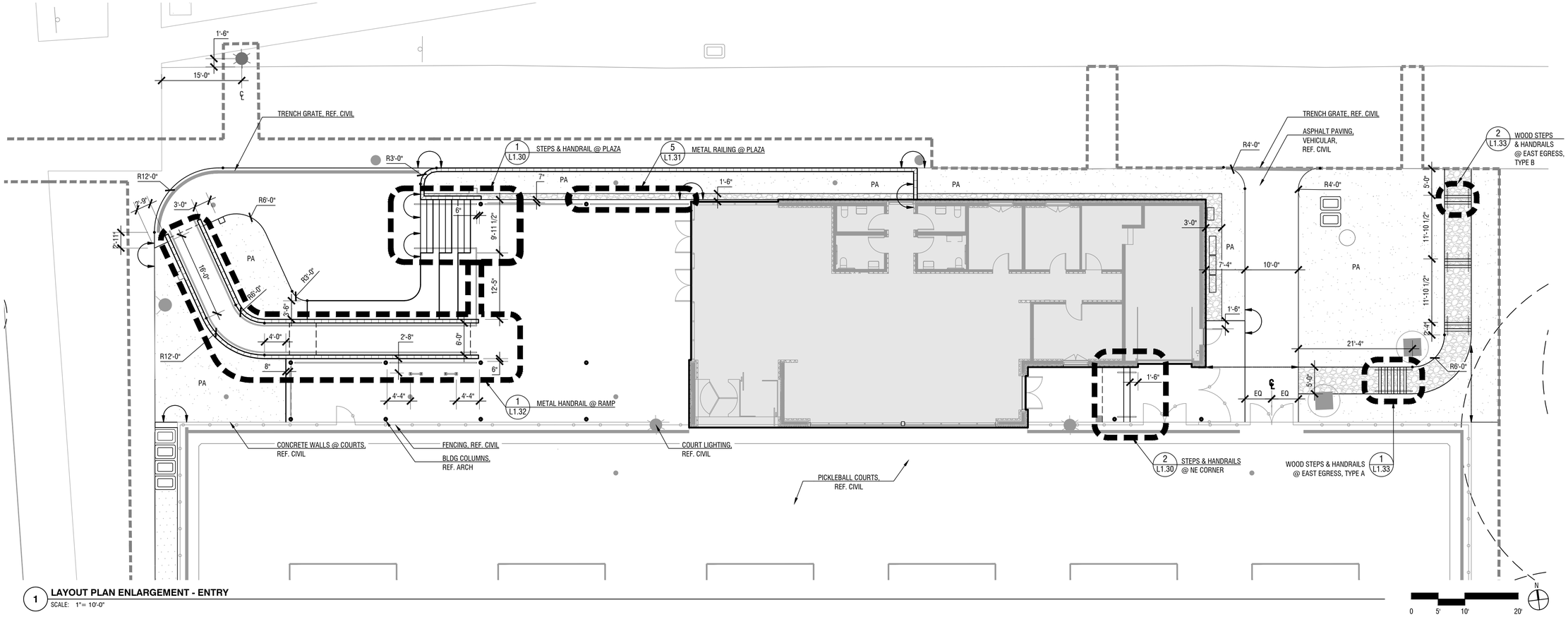
OVERALL
LAYOUT PLAN

L2.00



1 **LAYOUT PLAN ENLARGEMENT - ENTRY**
SCALE: 1"= 10'-0"

GENERAL LEGEND

- LIMIT OF WORK
- PA — PLANTING AREA
- PA — STORMWATER PLANTING AREA
- THPRD LAWN MIX
- 1/4" MINUS AGGREGATE
- TREE TO REMAIN

LAYOUT LEGEND

- CENTER LINE
- ALIGN - ACROSS
- ALIGN - FACES
- POINT OF TANGENCY

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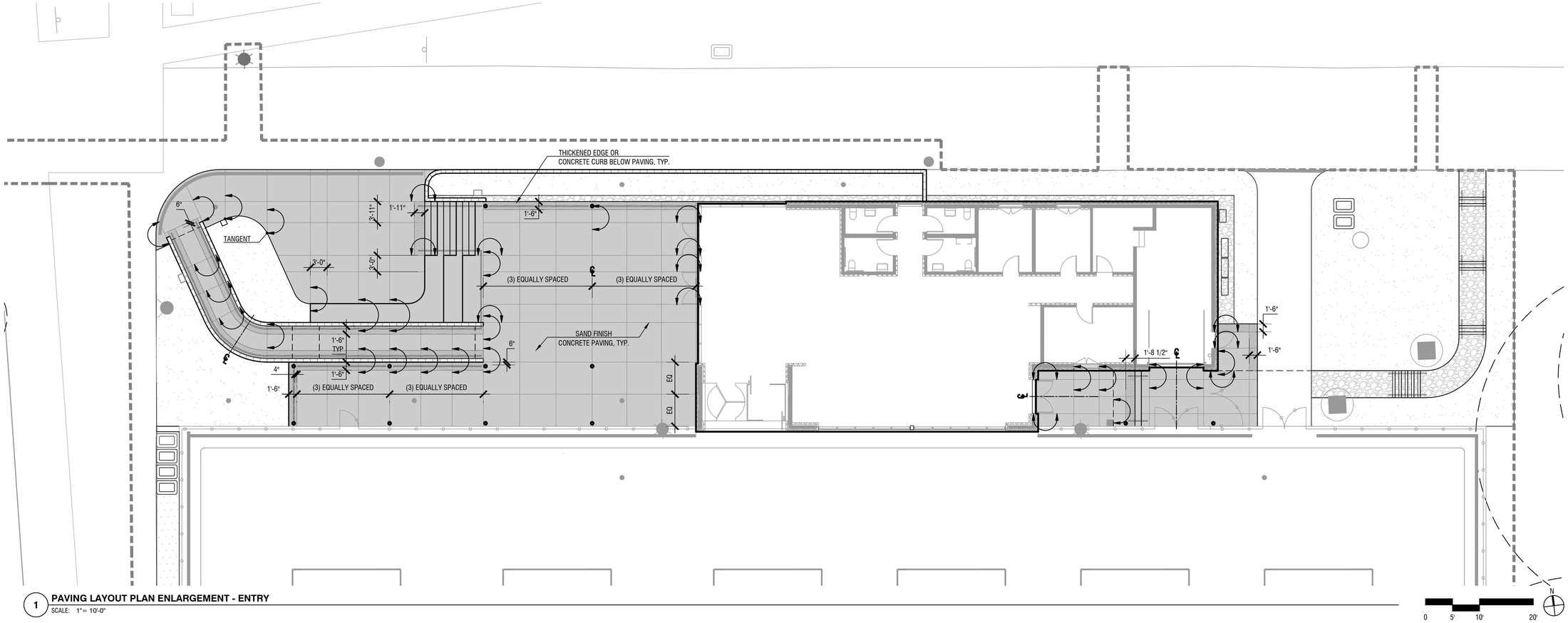
LAYOUT
PLAN - ENTRY

L2.01



1 **PAVING LAYOUT PLAN ENLARGEMENT - ENTRY**
SCALE: 1"= 10'-0"

GENERAL LEGEND

- LIMIT OF WORK
- PA — PLANTING AREA
- PA — STORMWATER PLANTING AREA
- THPRD LAWN MIX
- 1/4" MINUS AGGREGATE
- TREE TO REMAIN

LAYOUT LEGEND

- CENTER LINE
- ALIGN - ACROSS
- ALIGN - FACES
- POINT OF TANGENCY

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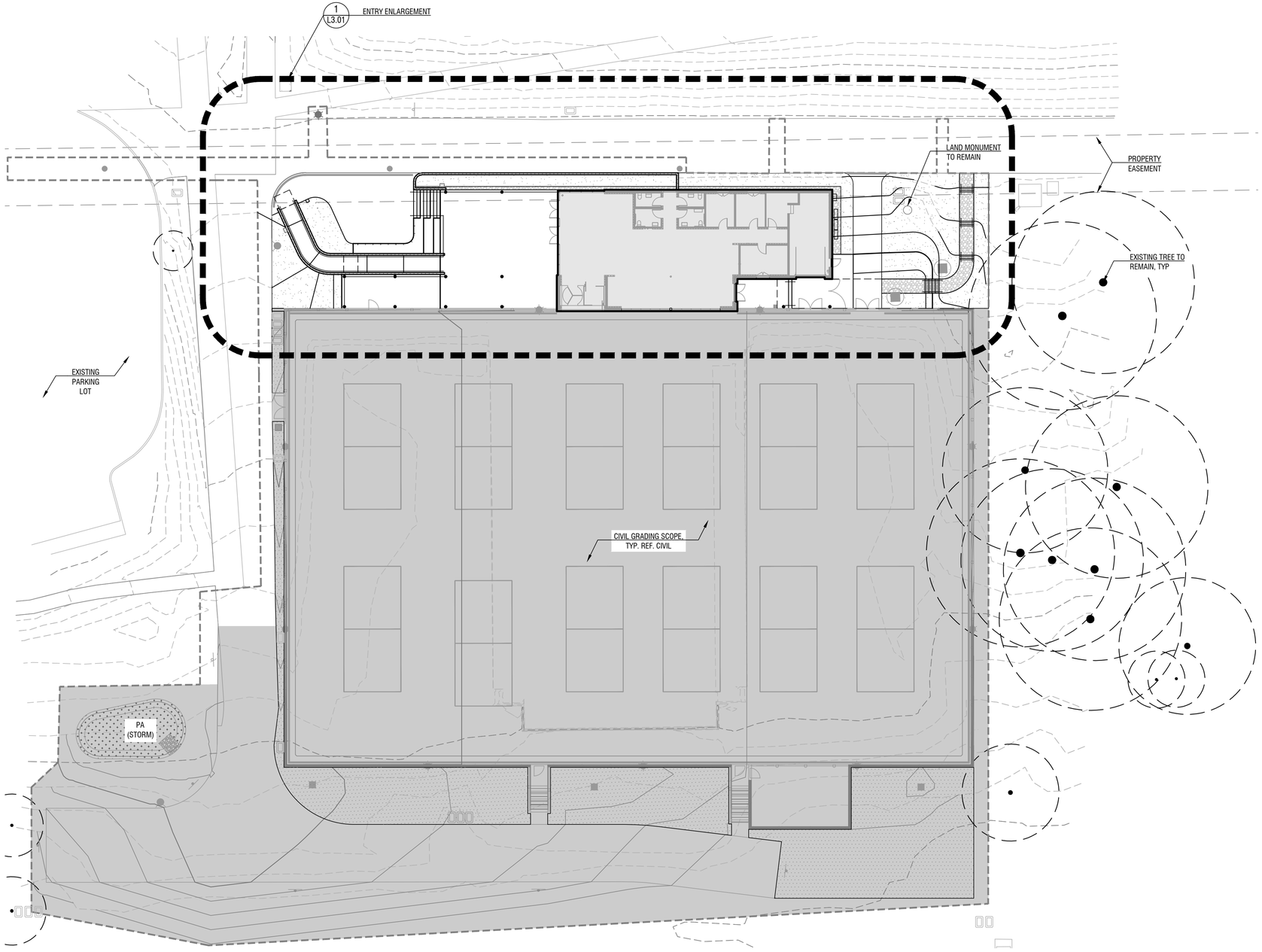
PAVING LAYOUT PLAN - ENTRY

L2.10



1 **OVERALL GRADING PLAN**
SCALE: 1"= 20'-0"

0 10' 20' 40' N

GENERAL LEGEND

- LIMIT OF WORK
- PA — PLANTING AREA
- PA — STORMWATER PLANTING AREA
- THPRD LAWN MIX
- 1/4" MINUS AGGREGATE
- TREE TO REMAIN

GRADING LEGEND

(100)	EXISTING CONTOUR - 1 FT INTERVAL
100	PROPOSED MAJOR CONTOUR - 5 FT INTERVAL
99	PROPOSED MINOR CONTOUR -1 FT INTERVAL
GB	GRADE BREAK
(FS XXX.XX)	EXISTING SPOT ELEVATION
[FS XXX.XX]	CIVIL SPOT ELEVATION, REF. CIVIL
FS XXX.XX	SPOT ELEVATION
XX%	SLOPE PERCENT, FOR REFERENCE ONLY
3:1	SLOPE RATIO (RUN:RISE), FOR REFERENCE ONLY
FFE	FINISH FLOOR ELEVATION
FS	FINISH SURFACE ELEVATION (HARDSCAPE)
FG	FINISH GRADE ELEVATION (SOFTSCAPE)
FS.V	FINISH SURFACE ELEVATION - UTILITY VAULT LID
TSS	TOP OF STADIUM SEATING ELEVATION
TW	TOP OF WALL ELEVATION
TWB	TOP OF WALL ELEVATION AT BREAK
TS	TOP OF STAIR ELEVATION
BS	BOTTOM OF STAIR ELEVATION
TR	TOP OF RAMP ELEVATION
BR	BOTTOM OF RAMP ELEVATION
TC	TOP OF CURB ELEVATION

GRADING NOTES

1. CROSS SLOPES IN PEDESTRIAN AREAS TO BE 2.0% MAX. LONGITUDINAL SLOPES ON WALKWAYS TO BE 5.0% MAX. LONGITUDINAL SLOPES ON PEDESTRIAN RAMPS TO BE 8.3% MAX. ANY PAVING EXCEEDING THESE SLOPES IS TO BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
2. SLOPES PROVIDED BY SLOPE ARROW ARE FOR REFERENCE ONLY.
3. ADJUST ALL INCIDENTAL STRUCTURES, MANHOLE LIDS, VALVE BOXES, ETC. TO FINISH GRADE.
4. ALL PLANTED AREAS TO SLOPE AWAY FROM BUILDINGS AT 2.0% MIN.

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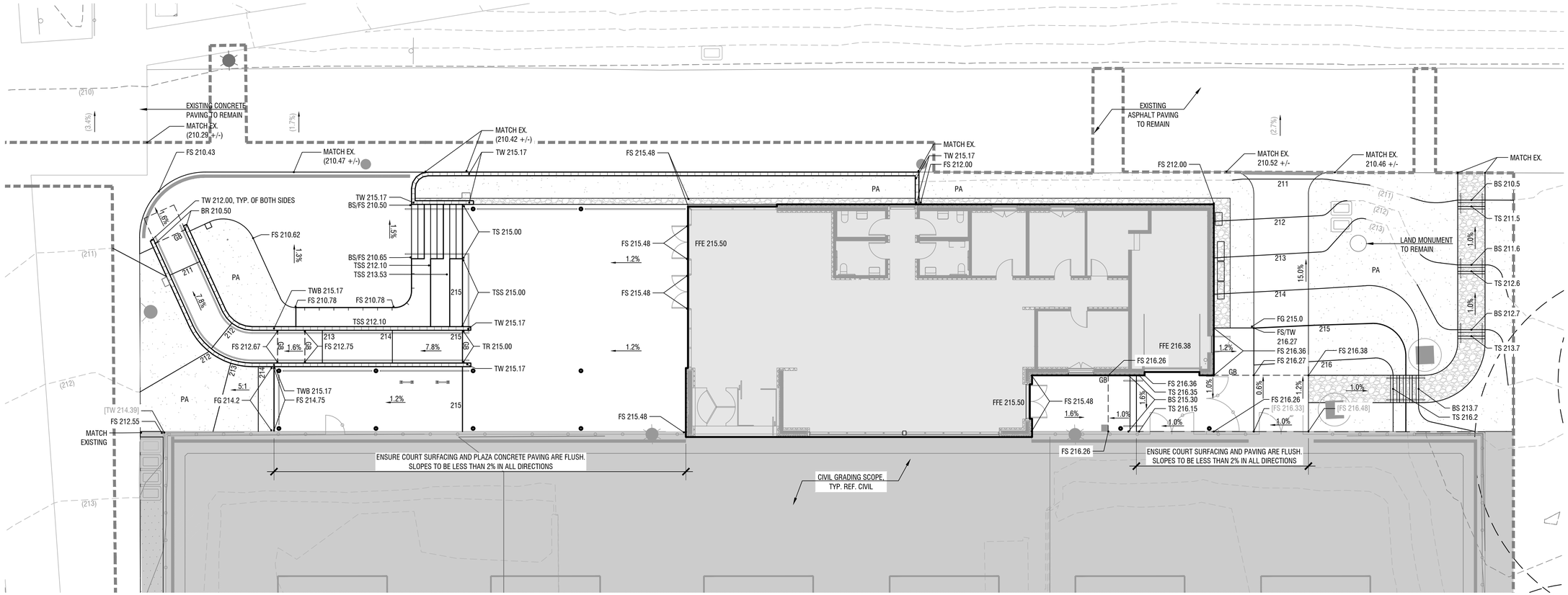
OVERALL GRADING PLAN

L3.00



1 **GRADING PLAN ENLARGEMENT - ENTRY**
SCALE: 1"= 10'-0"

0 5' 10' 20'

GENERAL LEGEND

- LIMIT OF WORK
- PA — PLANTING AREA
- PA — STORMWATER PLANTING AREA
- THPRD LAWN MIX
- 1/4" MINUS AGGREGATE
- TREE TO REMAIN

GRADING LEGEND

(100)	EXISTING CONTOUR - 1 FT INTERVAL
100	PROPOSED MAJOR CONTOUR - 5 FT INTERVAL
99	PROPOSED MINOR CONTOUR -1 FT INTERVAL
GB	GRADE BREAK
(FS XXX.XX)	EXISTING SPOT ELEVATION
[FS XXX.XX]	CIVIL SPOT ELEVATION, REF. CIVIL
FS XXX.XX	SPOT ELEVATION
XX%	SLOPE PERCENT, FOR REFERENCE ONLY
3:1	SLOPE RATIO (RUN:RISE), FOR REFERENCE ONLY
FFE	FINISH FLOOR ELEVATION
FS	FINISH SURFACE ELEVATION (HARDSCAPE)
FG	FINISH GRADE ELEVATION (SOFTSCAPE)
FS.V	FINISH SURFACE ELEVATION - UTILITY VAULT LID
TSS	TOP OF STADIUM SEATING ELEVATION
TW	TOP OF WALL ELEVATION
TWB	TOP OF WALL ELEVATION AT BREAK
TS	TOP OF STAIR ELEVATION
BS	BOTTOM OF STAIR ELEVATION
TR	TOP OF RAMP ELEVATION
BR	BOTTOM OF RAMP ELEVATION
TC	TOP OF CURB ELEVATION

GRADING NOTES

1. CROSS SLOPES IN PEDESTRIAN AREAS TO BE 2.0% MAX. LONGITUDINAL SLOPES ON WALKWAYS TO BE 5.0% MAX. LONGITUDINAL SLOPES ON PEDESTRIAN RAMPS TO BE 8.3% MAX. ANY PAVING EXCEEDING THESE SLOPES IS TO BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
2. SLOPES PROVIDED BY SLOPE ARROW ARE FOR REFERENCE ONLY.
3. ADJUST ALL INCIDENTAL STRUCTURES, MANHOLE LIDS, VALVE BOXES, ETC. TO FINISH GRADE.
4. ALL PLANTED AREAS TO SLOPE AWAY FROM BUILDINGS AT 2.0% MIN.

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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02.10.2026
DRAWN BY: CLC, BIS

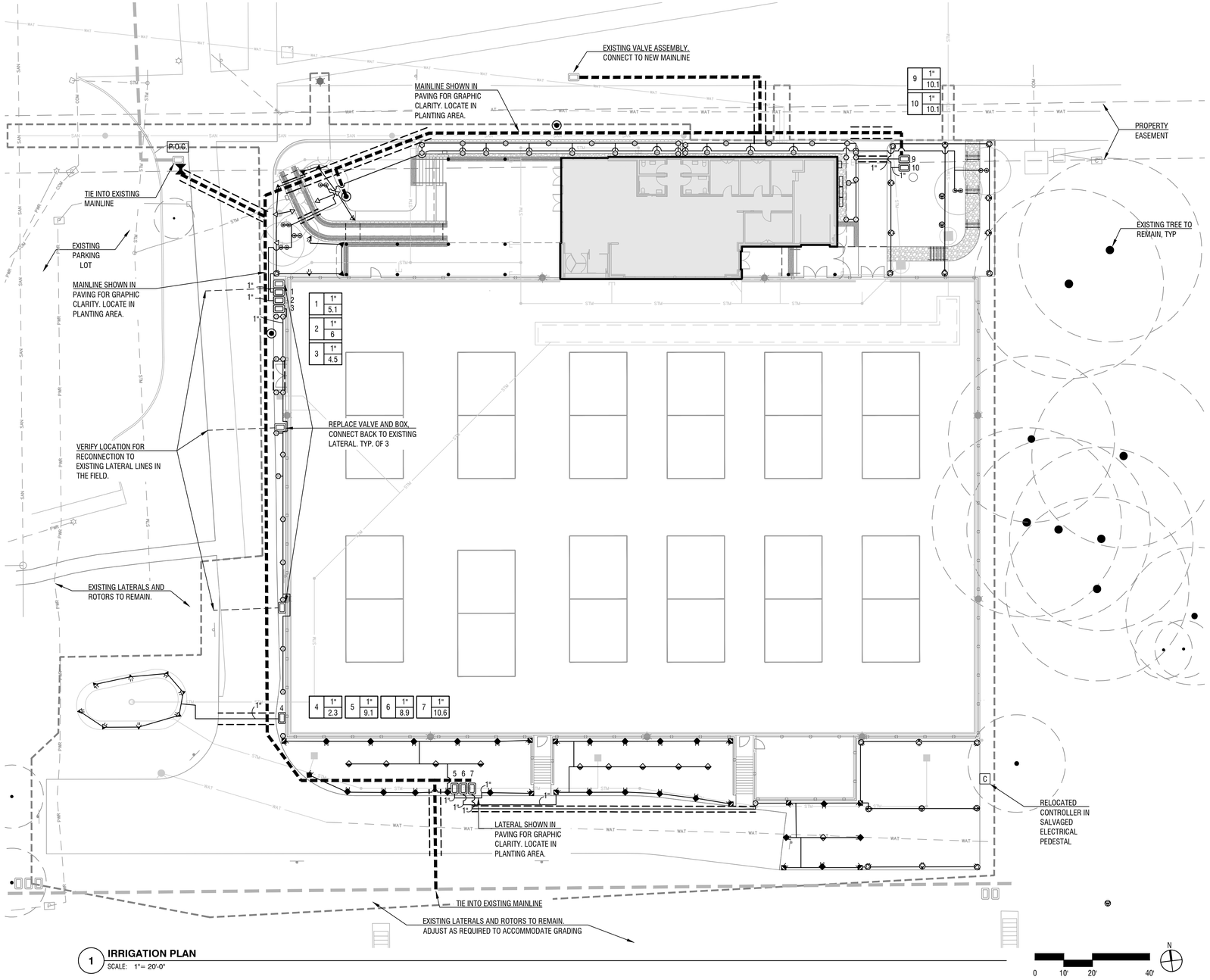
BID SET

REVISIONS:

REGISTERED LANDSCAPE ARCHITECT
995
Cami Culbertson
OREGON
11/08/2018

GRADING PLAN - ENTRY

L3.01



1 IRRIGATION PLAN
SCALE: 1"= 20'-0"

GENERAL LEGEND

- LIMIT OF WORK
- PA — PLANTING AREA
- PA — STORMWATER PLANTING AREA
- THPRD LAWN MIX
- 1/4" MINUS AGGREGATE
- TREE TO REMAIN
- PROPOSED TREES

IRRIGATION LEGEND

- P.O.C. — POINT OF CONNECTION - TIE INTO EXISTING MAINLINE
- C — CONTROLLER (EXISTING)
- BOX FOR REMOTE CONTROL VALVE ASSEMBLIES
- REPLACED VALVE ASSEMBLIES
- EXISTING VALVE ASSEMBLIES TO REMAIN
- ISOLATION VALVE
- QUICK COUPLER
- DV — DRAIN VALVE
- 1" / 18 — VALVE SIZE, ZONE GPM, VALVE NO.
- EXISTING MAINLINE TO REMAIN
- MAINLINE: 3" SCHEDULE 40 PVC
- LATERAL: SCHEDULE 40 PVC
- LINE SIZE — EXISTING LATERAL TO REMAIN
- SCHEDULE 40 PVC SLEEVES SIZE PER PLAN , 12" PAST PAVING EDGE

IRRIGATION SCHEDULE

SYMBOL/NOZZLE Q	H	F	MODEL NO. / DESCRIPTION	PSI	G.P.M./NOZZLE Q	H	F
▼	▽	◆	RAINBIRD 1812-SAM-P45 W/ HUNTER MP ROTATOR 800SR SERIES NOZZLES	45	.25	.46	.85
			RAINBIRD 1812-SAM-P45 W/ HUNTER MP ROTATOR 1000 SERIES NOZZLES	45	.23	.44	.88
			RAINBIRD 1812-SAM-P45 W/ HUNTER MP ROTATOR 2000 SERIES NOZZLES	45	.46	.85	1.57
			RAINBIRD 1812-SAM-P45 W/ HUNTER MP ROTATOR STRIPS SERIES NOZZLES	45	.21	.21	.41
			RAINBIRD 1812-SAM-P45 W/ HUNTER MP ROTATOR CORNER SERIES NOZZLES	45	.21		
			RAINBIRD 1806-SAM-P45 W/ HUNTER MP ROTATOR 1000 SERIES NOZZLES	45	.23	.44	.88
			RZWS-18-50-CV ROOT ZONE WATERING SYSTEM	30			

IRRIGATION NOTES

1. THE LAYOUT OF THE IRRIGATION SYSTEM IS DIAGRAMMATIC ONLY. MODIFY LAYOUT AS REQUIRED TO ACCOMMODATE PLANT PLACEMENT, UTILITIES, AND UNDERGROUND OBSTRUCTIONS. REVIEW MODIFICATIONS WITH THE LANDSCAPE ARCHITECT PRIOR TO PROCEEDING.
2. IT IS THE IRRIGATION CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE IRRIGATION SLEEVING LOCATIONS WITH THE GENERAL CONTRACTOR EARLY IN CONSTRUCTION PLANNING AND BEFORE CONSTRUCTION BEGINS.
3. CONTRACTOR TO VERIFY AVAILABLE P.S.I. AT THE POINT OF CONNECTION BEFORE COMMENCEMENT OF INSTALLATION. NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IF IT IS LOWER THAN THE REQUIRED PSI.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A FULLY FUNCTIONAL AUTOMATIC IRRIGATION SYSTEM PROVIDING FULL COVERAGE TO ALL PLANTING AREAS AND TREE WELLS AS DESCRIBED ON THE DRAWINGS AND IN THE SPECIFICATIONS. CONTRACTOR TO COORDINATE WITH FACILITIES STAFF AS TO EXISTING CONDITIONS AND SYSTEM REQUIREMENTS INCLUDING, QUICK COUPLER LOCATIONS, CONTROL VALVES, ETC.
5. SLEEVES SHALL BE INSTALLED 24 INCHES (MIN.) BELOW FINISHED PAVED SURFACE. ADJUST HEIGHT AS NEEDED TO ROUTE AROUND UTILITIES. EXTEND SLEEVES AT LEAST 12 INCHES INTO LAWN AND PLANTING AREAS, TYP.
6. REFERENCE CIVIL AND LANDSCAPE GRADING PLANS.
7. LOCATE VALVE BOXES AS NECESSARY SO THEY ARE HIDDEN FROM PEDESTRIAN VIEW. BROWN OR BLACK LIDS IN MULCH (PLANTING AREAS), GREEN LIDS IN LAWN AREAS.

IRRIGATION REQUIREMENTS

THIS IRRIGATION SYSTEM REQUIRES A STATIC WATER PRESSURE AT THE POINT OF CONNECTION (P.O.C.) OF 40 PSI.

MAXIMUM DESIGN FLOW IS 50 GALLONS PER MINUTE TO AVOID EXCESSIVE PRESSURE LOSS IN THE LATERAL LINE.

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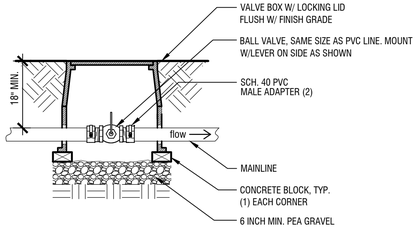
BID SET

REVISIONS:

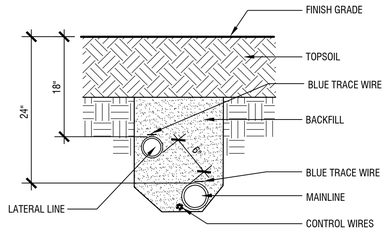
REGISTERED 995 Cami Culbertson OREGON 11/08/2018 LANDSCAPE ARCHITECT

OVERALL IRRIGATION PLAN

L4.00

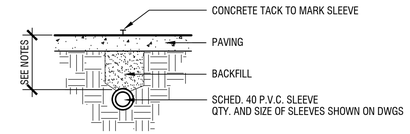


1 ISOLATION VALVE AT POINT OF CONNECTION - SECTION
SCALE: NTS



2 TRENCHING - SECTION
SCALE: NTS

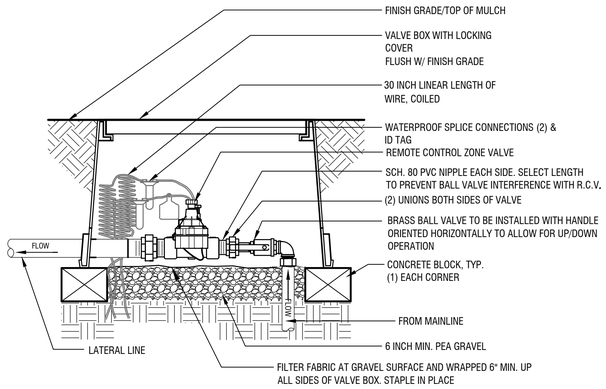
NOTES:
1. INSTALL BLUE TRACE WIRE ON ALL MAIN LINES AND LATERAL LINES.
2. INSTALL PIPES SPACED A MIN. OF 3" FROM THE EDGE OF TRENCHES, AND 6" BETWEEN PARALLEL PIPES
3. SPACING SHALL BE APPROPRIATE FOR INSTALLED PIPE DIAMETER.
4. DONT STACK LATERALS.
5. SNAKE ALL PIPING IN TRENCHING.
6. TIE LOOSE 3' LOOP IN ALL IRRIGATION.
7. WHERE ELECTRICAL WIRING DOES NOT SHARE COMMON TRENCH, OVER-EXCAVATE TRENCH 2" MIN. AND BACKFILL WITH SPECIFIED BEDDING MATERIAL.



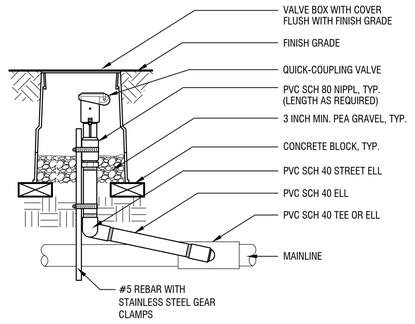
SECTION AT PAVING

3 IRRIGATION SLEEVE - SECTION
SCALE: NTS

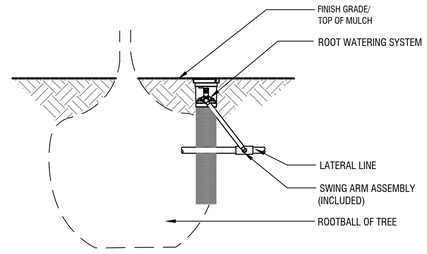
NOTES:
1. EXTEND IRRIGATION SLEEVE 12 INCHES BEYOND EDGE OF PAVING.
2. DEPTH OF MAINLINE = 24 INCHES
3. DEPTH OF LATERAL LINE = 18 INCHES
4. DEPTH OF LINES UNDER DRIVING SURFACE = 24 INCHES MIN.
5. SLEEVES TO BE TWICE THE DIAMETER OR THE LINE OR LINES PASSING THROUGH.



4 REMOTE CONTROL VALVE - SECTION
SCALE: NTS

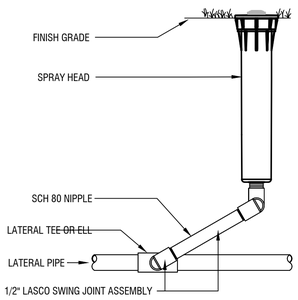


5 QUICK COUPLING VALVE - SECTION
SCALE: NTS



NOTES:
1. INSTALL QTY PER PLAN
2. INSTALL PRODUCT SO THAT THE GRATE IS EVEN WITH FINISH GRADE OR TOP OF MULCH.
3. WHEN INSTALLING IN EXTREMELY HARD OR CLAY SOILS, ADD 3/4" (1,9 CM) GRAVEL UNDER AND AROUND THE UNIT TO ALLOW FASTER WATER INFILTRATION AND ROOT PENETRATION.
4. ONCE RWS HAS BEEN INSTALLED FILL THE BASKET WITH PEA GRAVEL BEFORE LOCKING LID.

6 ROOT WATERING SYSTEM AT TREES - SECTION
SCALE: NTS



7 SPRAY HEAD - SECTION
SCALE: NTS

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BID SET

REVISIONS:

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Cami Culbertson
OREGON
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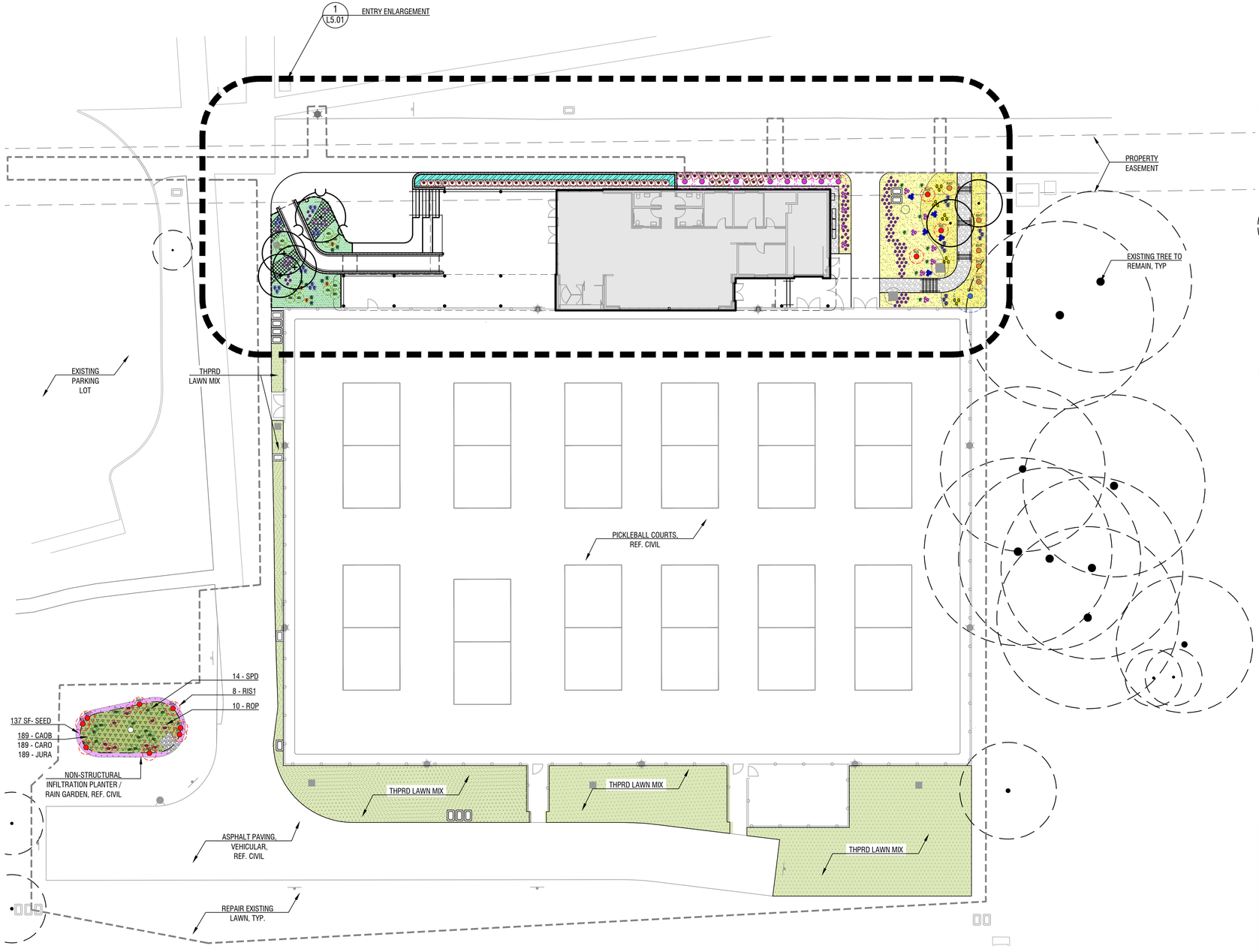
LANDSCAPE ARCHITECT

IRRIGATION DETAILS

L4.01



1 **OVERALL PLANTING PLAN**
SCALE: 1"= 20'-0"

0 10' 20' 40' N

GENERAL LEGEND

- LIMIT OF WORK
- 1/4" MINUS AGGREGATE
- TREE TO REMAIN
- THPRD LAWN MIX
- ROOT BARRIER

CALL BEFORE YOU PLANT!
Locate plants as dimensioned on the plans and as shown in the plant schedule.
Prior to planting, call the project landscape architect to schedule a site review 72 hours ahead.
Contact name: CAMI CULBERTSON
Phone number: 971-232-2428
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2222 NE Oregon St
Suite 213
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971 268 8510
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PLANTING NOTES

1. ALL PLANTINGS ARE SELECTED FROM THE FOLLOWING APPROVED PLANT LISTS:
   CITY OF BEAVERTON TREE LIST
   CLEAN WATER SERVICES' DESIGN AND CONSTRUCTION STANDARDS, APPENDIX A (2019)
   METRO NATIVE PLANTS BOOKLET (2018)
   PORTLAND PLANT LIST (2016)
2. A MINIMUM OF 25% OF THE PLANTINGS ARE DROUGHT TOLERANT.
3. A MINIMUM OF 50% OF TREES AND SHRUBS ARE NATIVE SPECIES.
4. DO NOT BEGIN PLANTING UNTIL IRRIGATION SYSTEM IS INSTALLED, TESTED AND APPROVED.
5. DO NOT BEGIN PLANTING UNTIL SOIL PREPARATION IS COMPLETE AND APPROVED. SEE L4.20.
6. LOCATE PLANTS AS DIMENSIONED ON THE PLANS AND AS SHOWN IN THE PLANT SCHEDULE. PLANT SPACING IS MEASURED CENTER TO CENTER. PLANT LOCATIONS MAY BE ADJUSTED BY THE LANDSCAPE ARCHITECT TO MEET FIELD CONDITIONS.
7. VERIFY ALL QUANTITIES AND VARIETIES SHOWN ON THE DRAWINGS PRIOR TO ORDERING. OWNER MUST APPROVE ANY NECESSARY SUBSTITUTIONS DURING SUBMITTALS PROCESS. REVIEW PROCESS TO BE ESTABLISHED AT PRE-CONSTRUCTION MEETING.
8. THOROUGHLY WATER IN ALL PLANTS WITHIN 4 HOURS OF PLANTING.
9. APPLY SPECIFIED MULCH OVER PLANTING AREAS WITHIN TWO DAYS OF INSTALLING PLANTS, UNLESS OTHERWISE NOTED.
10. ALL PLANTS ARE REQUIRED TO MEET AMERICAN STANDARD FOR NURSERY STOCK.
11. PROTECT ALL LANDSCAPED AREAS, FROM POTENTIAL DAMAGE BY ADJACENT USES AND DEVELOPMENT, INCLUDING PARKING AND STORAGE AREAS.
12. LET TREES AND SHRUBS TO GROW TO THEIR FULL NATURAL FORM.
13. DO NOT TRIM TREES OR SHRUBS UNLESS THEY ARE DEAD, DYING OR DANGEROUS.
14. REPLACE ANY PLANTS THAT ARE STRESSED, DYING OR PRUNED WITH THE SAME SPECIES WITHIN 2 WEEKS OR BETWEEN OCTOBER 15 AND APRIL 15 AS DIRECTED BY THE OWNER.

PLANT LEGEND - STORMWATER

STORMWATER

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	NOTES
	RIS1	RIBES SANGUINEUM	RED FLOWERING CURRANT	AS SHOWN	1 GAL, 18" HT	NATIVE
	ROP	ROSA PISOCARPA	CLUSTERED ROSE	AS SHOWN	1 GAL, 18" HT	NATIVE
	SPD	SPIRAEA DOUGLASII	DOUGLAS'S SPIRAEA	AS SHOWN	1 GAL, 18" HT	NATIVE
	CAOB	CAREX OBNUPTA	SLOUGH SEDGE	12" O.C.	PLUGS	NATIVE
	CARO	CAREX ROSSI	ROSSI SEDGE	12" O.C.	PLUGS	NATIVE
	JUPA	JUNCUS PATENS	SPREADING RUSH	12" O.C.	PLUGS	NATIVE
	SEED	AGROSTIS OREGONESIS	OREGON BENTGRASS		SEED	NATIVE
		JUNCUS BUFONIUS	TOAD RUSH		SEED	NATIVE

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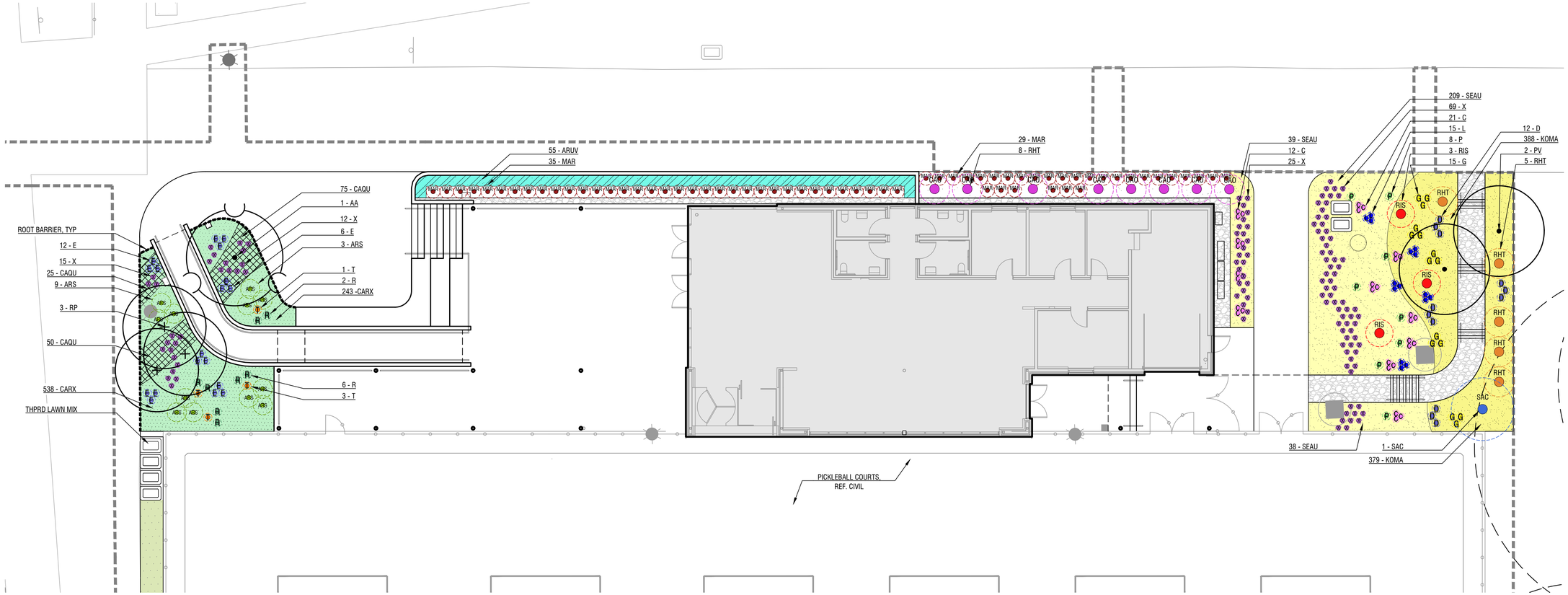
OVERALL PLANTING PLAN

L5.00



1 **PLANTING PLAN ENLARGEMENT - ENTRY**
SCALE: 1"= 10'-0"

GENERAL LEGEND

- LIMIT OF WORK
- 1/4" MINUS AGGREGATE
- TREE TO REMAIN
- THPRD LAWN MIX
- ROOT BARRIER

CAMI CULBERTSON
971-232-2428

PLANT LEGEND

TREES

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SIZE	NOTES	QUANTITY
	AA	AMELANCHIER ALNIFOLIA	SASKATOON SERVICEBERRY	MULTI-STEM, BRANCHED AT 6' HT.	NATIVE	1
	PV	PRUNUS VIRGINIANA VAR. DEMISSA	WESTERN CHOKECHERRY	15 GAL.	NATIVE	2
	RP	RHAMNUS PURSHIANA	CASCARA	2" CAL./B&B, BRANCHED AT 6' HT.	NATIVE	3

SHRUBS

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	NOTES
ARS	ARS	ARCTOSTAPHYLOS 'SUNSET'	SUNSET MANZANITA	36" O.C.	5 GAL.	NATIVE
CAO	CAO	CALYCANTHUS OCCIDENTALIS	WESTERN SPICEBRUSH	AS SHOWN	3 GAL.	NATIVE
MAR	MAR	MAHONIA REPENS	CREEPING MAHONIA	30" O.C.	1 GAL.	NATIVE
RHT	RHT	RHUS TRILOBATA	SKUNKBUSH SUMAC	AS SHOWN	3 GAL.	NATIVE
RIS	RIS	RIBES SANGUINEUM	RED FLOWERING CURRANT	AS SHOWN	3 GAL.	NATIVE
SAC	SAC	SAMBUCUS CERULEA	BLUE ELDERBERRY	AS SHOWN	5 GAL	NATIVE

GROUNDCOVERS, PERRENIALS & BULBS

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	NOTES
A	A	ACHILLEA MILLEFOLIUM	COMMON YARROW	36" O.C.	4" POT	NATIVE
T	T	ACHILLEA 'TERRACOTTA'	TERRACOTTA YARROW	24" O.C.	4" POT	
P	P	ANAPHALIS MARGARITACEA	PEARLY EVERLASTING	AS SHOWN	1 GAL	NATIVE
D	D	ASTER DOUGLASII	DOUGLAS ASTER	18" O.C.	4" POT	NATIVE
E	E	ERIGERON SPECIOSUS	ASPEN FLEABANE	18" O.C.	1 GAL	NATIVE
L	L	LUPINUS POLYPHYLLUS	LARGE-LEAVED LUPINE	12" O.C.	1 GAL	NATIVE
C	C	SIDALCEA CAMPESTRIS	MEADOW CHECKERMALLOW	12" O.C.	1 GAL	NATIVE
G	G	SOLIDAGO CANADENSIS	CANADA GOLDENROD	18" O.C.	4" POT	NATIVE
R	R	RUDBECKIA OCCIDENTALIS	WESTERN CONEFLOWER	AS SHOWN	4" POT	NATIVE
X	X	ALLIUM AMPLECTENS 'GRACEFUL BEAUTY'	GRACEFUL BEAUTY ALLIUM	18" O.C.	4" POT	50% OF MIX
		ALLIUM CERNUUM	NODDING ONION	18" O.C.	4" POT	50% OF MIX
	ARUV	ARCTOSTAPHYLOS UVA-URSI	KINNIKINNICK	18" O.C.	4" POT	NATIVE
	CAQU	CAMASSA QUAMASH	SMALL CAMAS	AS SHOWN	BULB	NATIVE
	CARX	CAREX TUMULICOLA	FOOTHILLS SEDGE	12" O.C.	4" POT	50% OF MIX
		CAREX PACHYSTACHA	CHAMISSO SEDGE	12" O.C.	4" POT	50% OF MIX
	KOMA	KOELERIA MACRANTHA	PRAIRIE JUNEGRASS	12" O.C.	4" POT	NATIVE
	SEAU	SESLERIA AUTUMNALIS	AUTUMN MOOR GRASS	18" O.C.	1 GAL	

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PLANTING PLAN - ENTRY

L5.01

TREES

SASKATOON SERVICEBERRY
Amelanchier alnifolia

WESTERN CHOKECHERRY
Prunus virginiana var. demissa

CASCARA
Rhamnus purshiana

GROUNDCOVER, PERENNIALS AND BULBS

COMMON YARROW
Achillea millefolium

TERRACOTTA YARROW
Achillea 'Terracotta'

PEARLY EVERLASTING
Anaphalis margaritacea

DOUGLAS ASTER
Aster douglasii

ASPEN FLEABANE
Erigeron speciosus

LARGE-LEAVED LUPINE
Lupinus polyphyllus

MEADOW CHECKERMALLOW
Sidalcea campestris

CANADA GOLDENROD
Solidago canadensis

WESTERN CONEFLOWER
Rudbeckia occidentalis

GRACEFUL BEAUTY ALLIUM
Allium amplectens 'Graceful Beauty'

SMALL CAMAS
Camassa quamash

FOOTHILLS SEDGE
Carex tumulicola

CHAMISSO SEDGE
Carex pachystacha

PRAIRIE JUNEGRASS
Koeleria macrantha

AUTUMN MOOR GRASS
Sesleria autumnalis

SHRUBS

SUNSET MANZANITA
Arctostaphylos 'Sunset'

CREEPING MAHONIA
Mahonia repens

SKUNKBUSH SUMAC
Rhus trilobata

RED FLOWERING CURRANT
Ribes sanguineum

BLUE ELDERBERRY
Sambucus cerulea

KINNIKINNIK
Arctostaphylos uva-ursi

STORMWATER

RED FLOWERING CURRANT
Ribes sanguineum

CLUSTERED ROSE
Rosa pisocarpa

DOUGLAS'S SPIRAEA
Spiraea douglasii

TOAD RUSH
Juncus bufonius

OREGON BENTGRASS
Agrostis oregonesis

SLOUGH SEDGE
Carex obnupta

ROSSI SEDGE
Carex rossi

SPREADING RUSH
Juncus patens

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DRAWN BY: CLC, BIS

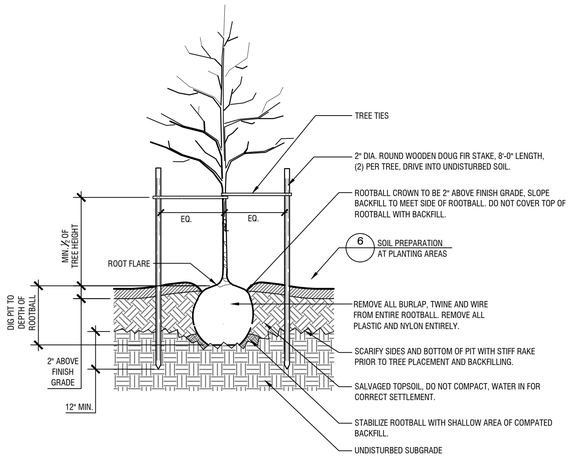
BID SET

REVISIONS:

REGISTERED LANDSCAPE ARCHITECT
995
Cami Culbertson
OREGON
11/08/2018

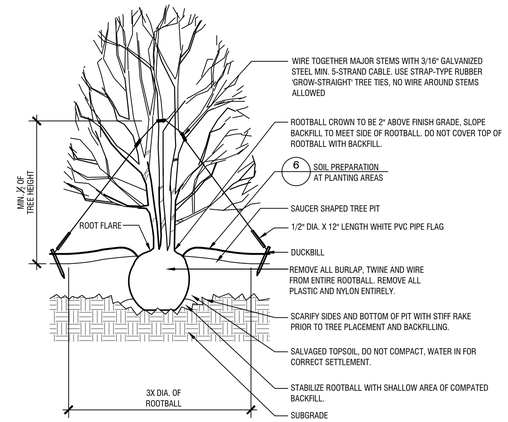
PLANT IMAGES

L5.02



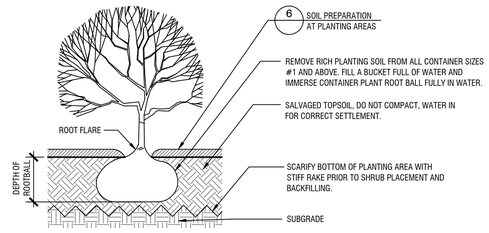
NOTES:
1. CHECK ROOTBALL FOR PRESENCE OF ROOT FLARE AT BASE OF TRUNK. REMOVE EXCESS SOIL OVER ROOT FLARE AND ADJUST DEPTH OF PLANTING HOLE TO ACCOMODATE REDUCED ROOTBALL DEPTH IF NEEDED. **ROOT FLARE MUST BE VISIBLE ABOVE MULCH AND SOIL.**
2. MARK SOUTH SIDE OF TRUNK IN NURSERY. PLANT WITH SAME ORIENTATION IN THE FIELD.

1 DECIDUOUS TREE PLANTING - SECTION
SCALE: NTS



NOTES:
1. CHECK ROOTBALL FOR PRESENCE OF ROOT FLARE AT BASE OF TRUNK. REMOVE EXCESS SOIL OVER ROOT FLARE AND ADJUST DEPTH OF PLANTING HOLE TO ACCOMODATE REDUCED ROOTBALL DEPTH IF NEEDED. ROOT FLARE MUST BE VISIBLE ABOVE MULCH/SOIL/ROOTBALL.
2. MARK SOUTH SIDE OF TRUNK IN NURSERY. PLANT WITH SAME ORIENTATION IN THE FIELD.

2 MULTI-STEM DECIDUOUS TREE PLANTING - SECTION
SCALE: NTS

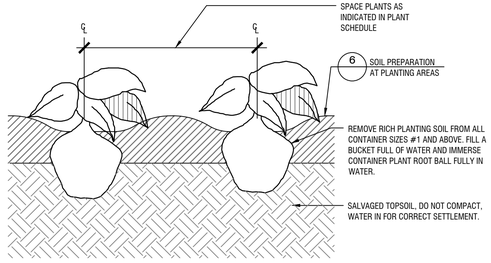


NOTES:
1. ROOTBALL CROWN TO BE 1" HIGHER THAN FINISHED GRADE OF SOIL (NOT MULCH).
2. PRESS DOWN ON SOIL FIRMLY AFTER PLANTING TO FILL AIR GAPS AROUND ROOTS.

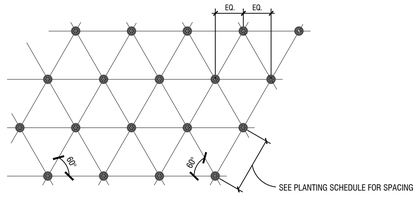
3 SHRUB PLANTING - SECTION
SCALE: NTS

GENERAL PLANTING NOTES

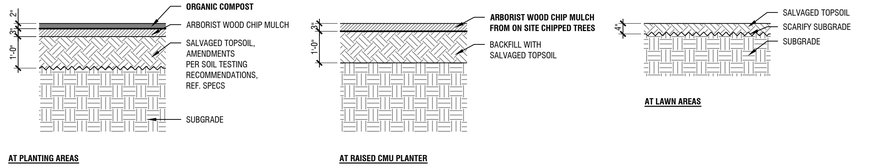
1. TO REDUCE COMPACTION OF SUBSURACE SOILS, AERATE SUBGRADE OF PLANTING AREA BY DEEP PLOWING (NOT TILLING) OR USING A CORE AERATOR.
2. APPLY MULCH WITHIN TWO DAYS OF INSTALLING PLANT MATERIAL. SATURATE MULCH LAYER AND TOP-DRESS AS NECESSARY TO ACHIEVE FULL DEPTH AFTER SETTLEMENT.



4 GROUNDCOVER, GRASS, FERN AND PERENNIAL PLANTING - SECTION
SCALE: NTS



5 TRIANGULAR PLANT SPACING - PLAN
SCALE: NTS



6 SOIL PREPARATION - SECTION
SCALE: NTS

FWD//
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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02.10.2026
DRAWN BY: CLC, BIS

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995
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PLANT DETAILS

L5.03

DRAWING INDEX

		ISSUE LOG				
		90% CD CHECKSET	PERMIT SET	90% CD PROGRESS	PERMIT COMMENT RESPONSES	BID SET
S0.01	DRAWING INDEX AND LIST OF ABBREV.	X	X	X	X	X
S0.02	GENERAL STRUCTURAL NOTES	X	X	X	X	X
S0.03	GENERAL STRUCTURAL NOTES	X	X	X	-	X
S0.04	GENERAL STRUCTURAL NOTES	X	X	X	-	X
S0.05	SPECIAL INSPECTIONS	X	X	X	-	X
S0.06	SPECIAL INSPECTIONS	X	X	X	-	X
S1.00	FOUNDATION AND ROOF FRAMING PLANS	X	X	X	X	X
S5.01	CONCRETE DETAILS	X	X	X	-	X
S5.02	CONCRETE DETAILS	X	X	X	X	X
S5.03	CONCRETE DETAILS	X	X	X	X	X
S5.04	CONCRETE DETAILS	X	X	X	X	X
S5.10	MASONRY DETAILS	X	X	X	X	X
S6.01	STEEL DETAILS	X	X	X	X	X
S6.02	STEEL DETAILS	X	X	X	-	X
S7.01	LIGHT GAUGE DETAILS	X	X	X	X	X
S7.02	LIGHT GAUGE DETAILS	X	X	X	X	X
S7.03	LIGHT GAUGE DETAILS	X	X	X	X	X
S7.04	LIGHT GAUGE DETAILS	X	X	X	X	X
	DATE	10.31.2025	11.14.2025	01.12.2026	02.10.2026	02.10.2026

ISSUE LOG KEY:
' X ' ISSUED AS PART OF A SET
' - ' NOT A PART OF ISSUED SET
' * ' FOR INFORMATION ONLY

LIST OF ABBREVIATIONS

ABBREV.	ABBREVIATIONS
A.B.	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADD'L.	ADDITIONAL
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT.	ALTERNATE
ALUM.	ALUMINUM
ARCH.	ARCHITECT / ARCHITECTURAL
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASD	ALLOWABLE STRENGTH DESIGN LOAD LEVEL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
BLDG.	BUILDING
BLW	BELOW
BOT.	BOTTOM
BRBF	BUCKLING RESTRAINED BRACED FRAME
C.G.	CENTER OF GRAVITY
C.I.P.	CAST IN PLACE
C.J.	CONTROL JOINT
C.J.P.	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR.	CLEAR
CLT	CROSS LAMINATED TIMBER
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
db	BAR DIAMETER
DBA	DEFORMED BAR ANCHOR
DET.	DETAIL
DIA., Ø	DIAMETER
DIAG.	DIAGONAL
D.L.	DEAD LOAD
DLT	DOWEL LAMINATED TIMBER
DWG.	DRAWING
ELEC.	ELECTRICAL
EL.	ELEVATION
EQ.	EQUAL
EXIST., (E)	EXISTING
EXP.	EXPANSION
EXT.	EXTERIOR
FDN.	FOUNDATION
FIN.	FINISH
FLR.	FLOOR
FRT	FIRE RETARDANT TREATED
FT.	FOOT
FTG.	FOOTING
GA.	GAUGE
GALV.	GALVANIZED
GL	GLULAM
HORIZ.	HORIZONTAL
HSS	HOLLOW STRUCTURAL STEEL
IBC	INTERNATIONAL BUILDING CODE
I.D.	INSIDE DIAMETER
IN.	INCHES
INT.	INTERIOR
K	KIPS
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LBS.	POUNDS
L.L.	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC.	LOCATION
LONG.	LONGITUDINAL
LSL	LAMINATED STRAND LUMBER
LVF	LOW VELOCITY FASTENER
LVL	LAMINATED VENEER LUMBER
MAX.	MAXIMUM
MBMA	METAL BUILDING MANUFACTURERS ASSOCIATION
MECH.	MECHANICAL
MEPF	MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SAFETY
MFR.	MANUFACTURER
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MPH	MILES PER HOUR
MPP	MASS PLYWOOD PANELS
MT	MAGNETIC PARTICLE TESTING
(N)	NEW
N.I.C.	NOT IN CONTRACT
NLT	NAIL LAMINATED TIMBER
NOM.	NOMINAL
NO.	NUMBER
N.T.S.	NOT TO SCALE
o.c.	ON CENTER
O.D.	OUTSIDE DIAMETER
OPP.	OPPOSITE
OSL	ORIENTED STRAND LUMBER
OWJ	OPEN WEB JOIST
PAF	POWDER ACTUATED FASTENER
PART.	PARTITION
P/C	PRECAST
PCF	POUNDS PER CUBIC FOOT
PERIM.	PERIMETER
PL	PLATE
PP	PARTIAL PENETRATION
PSF	POUNDS PER SQUARE FOOT
PSL	PARALLEL STRAND LUMBER
PSI	POUNDS PER SQUARE INCH
P/T	POST-TENSIONED
P.T.	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
R, RAD.	RADIUS
RCSC	RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS
REF.	REFERENCE
RET.	RETURN
REINF.	REINFORCING
REQ'D.	REQUIRED
REQ'MTS.	REQUIREMENTS
SCHED.	SCHEDULE
S.C.	SLIP CRITICAL
SCL	STRUCTURAL COMPOSITE LUMBER
SIM.	SIMILAR
SLFS	SEISMIC FORCE RESISTING SYSTEM
S.O.G.	SLAB ON GRADE
SPEC.	SPECIFICATION
SQ.	SQUARE
SS	STAINLESS STEEL
SSMA	STEEL STUD MANUFACTURERS ASSOCIATION
STD.	STANDARD
STRUCT.	STRUCTURAL
SPRT	SUPPORT
SYM.	SYMMETRICAL
THRU	THROUGH
T&G	TONGUE AND GROOVE
TRANS.	TRANSVERSE
TS	LIGHT GAUGE TUBE STEEL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
U.T.	ULTRASONIC TESTING
ULT.	ULTIMATE STRENGTH DESIGN LOAD LEVEL
VERT.	VERTICAL
V.I.F.	VERIFY IN FIELD
w/	WITH
WF	WIDE FLANGE
w/o	WITHOUT
W.P.	WORK POINT
WPS	WELDING PROCEDURE SPECIFICATION
WWF	WELDED WIRE FABRIC

FWD//
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BEAVERTON, OR 97006

DATE: 02.10.2026
DRAWN BY: CB

BID SET

REVISION:

STAMP

EXPIRES 12/31/27

DRAWING INDEX AND LIST OF ABBREV.

S0.01

GENERAL

STRUCTURAL DRAWINGS ARE A PART OF THE CONTRACT DOCUMENTS AND ARE COMPLEMENTARY TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING DRAWINGS, THE SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS FROM THE CONTRACT DOCUMENTS INTO THEIR SHOP DRAWINGS AND WORK. AS REQUIRED BY THE GENERAL CONDITIONS, THE CONTRACTOR SHALL PROMPTLY REPORT TO THE ARCHITECT ANY ERRORS, INCONSISTENCIES, OR OMISSIONS IN THE CONTRACT DOCUMENTS DISCOVERED BY OR MADE KNOWN TO THE CONTRACTOR.

THE GENERAL STRUCTURAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. WHERE CONFLICT EXISTS, THE MORE STRINGENT OR RESTRICTIVE REQUIREMENT SHALL GOVERN UNTIL CLARIFICATION IS REQUESTED.

CODE REQUIREMENTS:

CONFORM TO THE 2022 OREGON STRUCTURAL SPECIALTY CODE (OSSC), BASED ON THE 2021 INTERNATIONAL BUILDING CODE (IBC).

TEMPORARY CONDITIONS:

THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES UNTIL COMPLETION.

CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.

RETAINING WALLS WHICH TIE TO UPPER SLABS SHALL NOT BE BACKFILLED UNTIL THE UPPER SLABS REACH FULL STRENGTH UNLESS ADEQUATE BRACING IS PROVIDED AT THE TOP OF THE WALL.

EXCAVATIONS SHALL NOT REDUCE THE VERTICAL OR LATERAL SUPPORT FOR ANY FOUNDATION OF THIS PROJECT OR ANY ADJACENT STRUCTURE WITHOUT FIRST UNDERPINNING OR PROTECTING THE FOUNDATION AGAINST DETRIMENTAL LATERAL AND/OR VERTICAL MOVEMENT. REF. SUBMITTALS SECTION FOR CONTRACTOR'S DELEGATED DESIGN RESPONSIBILITY WHERE SUCH SUPPORT IS REQUIRED.

ASSUMED FUTURE CONSTRUCTION:

VERTICAL: NONE
HORIZONTAL: NONE

DESIGN CRITERIA

DESIGN WAS BASED ON THE STRENGTH AND DEFLECTION CRITERIA OF THE OSSC. IN ADDITION TO THE DEAD LOADS, THE FOLLOWING LOADS AND ALLOWABLES WERE USED FOR DESIGN, WITH LIVE LOADS (L.L.) REDUCED PER OSSC:

GRAVITY SYSTEM CRITERIA		
OCCUPANCY OR USE	**UNIFORM LOAD**	**CONCENTRATED LOAD**
OFFICES	50 PSF L.L. + 15 PSF PARTITIONS, OR 80 PSF L.L. (INCLUDING PARTITIONS) WHICHEVER IS MORE CRITICAL FOR MEMBER DESIGN	2,000 LBS.
CORRIDORS	100 PSF	
ROOF LIVE/SNOW LOAD	25 PSF SNOW LOAD (ALSO SEE SNOW LOAD CRITERIA BELOW)	
ASSEMBLY AREAS	100 PSF	
STORAGE LIGHT	125 PSF	
GRAVITY LOADING NOTES:	1. LIVE LOADS REDUCED PER OSSC. 2. MEMBERS DESIGNED FOR MORE CRITICAL OF UNIFORM OR CONCENTRATED LOAD.	
FRAMING MEMBER	**DEFLECTION LIMITS**	
VERTICAL ROOF FRAMING DEFLECTION - BUILDING PERIMETER (FOR CLADDING DESIGN)	TYPICAL: 0.75" OR l/360 WHICHEVER IS LESS DUE TO LONG TERM CREEP COMPONENT OF D.L. + L.L.	
VERTICAL ROOF FRAMING DEFLECTION - BUILDING INTERIOR	l/240 DUE TO SNOW LOAD AND l/180 DUE TO SNOW LOAD PLUS LONG TERM CREEP COMPONENT OF D.L.	
HORIZONTAL DEFLECTION - EXTERIOR WALL FRAMING	TYPICAL: l/240 DUE TO ASD WIND LOAD	
DEFLECTION LIMIT NOTES:	1. l = LENGTH OF STRUCTURAL FRAMING MEMBER BETWEEN SUPPORTS. 2. FOR CANTILEVER FRAMING, l SHALL BE TAKEN AS 2X THE CANTILEVER LENGTH. 3. LONG TERM CREEP COMPONENT OF DEAD LOAD (D.L.) INCLUDES ONLY THE TIME DEPENDENT PORTION OF LONG TERM DEAD LOADING AND IS APPLICABLE TO CONCRETE AND WOOD FRAMING ONLY.	
SOLAR-READY COLLATERAL DEAD LOAD		
SOLAR-READY ROOF AREAS	5 PSF COLLATERAL DEAD LOAD (OSSC 3111.4.7)	
SNOW CRITERIA		
DESIGN ROOF SNOW LOAD	25 PSF MINIMUM IN ACCORDANCE WITH OSSC	
SNOW DRIFT	PER OSSC AS SHOWN ON PLANS	
GROUND SNOW LOAD	Pg= 10 PSF IN ACCORDANCE WITH: snowload.seao.org	
FLAT ROOF SNOW LOAD	Pf = 7 PSF	
SNOW EXPOSURE FACTOR	Ce = 1.0	
SNOW LOAD IMPORTANCE FACTOR	Is = 1.0	
THERMAL FACTOR	Ct = 1.0	
GEOTECHNICAL CRITERIA		
DESIGN BASED ON REPORT BY:	CENTRAL GEOTEHCNICAL SERVICES	
RETAINING WALLS - CANTILEVERED	40 PCF (EQUIVALENT FLUID PRESSURE)	
RETAINING WALLS - BRACED AT TOP	58 PCF (EQUIVALENT FLUID PRESSURE)	
RETAINING WALLS - SEISMIC	10.5H PSF APPLIED AT 0.6H; (H=WALL HEIGHT)	
PASSIVE EARTH PRESSURE	200 PCF	
COEFFICIENT OF FRICTION	0.35	
ALLOWABLE SOIL PRESSURE:		
ON FIRM NATIVE SOILS	2,000 PSF	
SHORT TERM LOADING	1/3 INCREASE	
WIND CRITERIA		
RISK CATEGORY	II	
BASIC WIND SPEED	VULT = 97 MPH (3-SECOND GUST)	VASD = 76 MPH (3-SECOND GUST)
EXPOSURE CATEGORY	B	
GUST / INTERNAL PRESSURE	GCpi = +/- 0.18	
EXTERIOR COMPONENT AND CLADDING DESIGN PRESSURES	-26.5 PSF IN FIELD (ZONE 4) -31.1 PSF FOR 4.5 FT AT CORNERS (ZONE 5)	
ULTIMATE ROOF WIND UPLIFT PRESSURES	-32.3 PSF IN ZONE 1' - ZONE LENGTH 18 FT. -50.1 PSF IN ZONE 1 - ZONE LENGTH 18 FT. -63.5 PSF IN ZONE 2 - ZONE LENGTH 10 FT. -83.6 PSF IN ZONE 3 - ZONE LENGTH 6 FT.	

SEISMIC CRITERIA		
RISK CATEGORY	II	
SEISMIC DESIGN CATEGORY	D	
SITE CLASS	D	
SEISMIC IMPORTANCE FACTOR	IE = 1.0	
MAPPED SPECTRAL ACCELERATION PARAMETERS	SS = 0.897	S1 = 0.414
DESIGN SPECTRAL RESPONSE ACCELERATION PARAMETERS	SDS = 0.682	SD1 = 0.781
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PER ASCE 7-16, SECTION 12.8	
	X DIRECTION (EAST / WEST)	Y DIRECTION (NORTH / SOUTH)
SEISMIC FORCE RESISTING SYSTEM (SFRS) REF. ASCE 7-16, TABLE 12.2-1	SUREBOARD SHEATHED SHEARWALLS	SUREBOARD SHEATHED SHEARWALLS
RESPONSE MODIFICATION FACTOR	R = 6.5	R = 6.5
SEISMIC RESPONSE COEFFICIENT	Cs = 0.105	Cs = 0.105
DESIGN BASE SHEAR	29 KIPS	29 KIPS
REDUNDANCY FACTOR	rho = 1.0	rho = 1.0
DESIGN INELASTIC STORY DRIFT	Δ = 3.60"	Δ = 3.60"

SEISMIC FORCE-RESISTING SYSTEM

THE SEISMIC FORCE-RESISTING SYSTEM (SFRS) FOR THE COMPLETED STRUCTURE IS AS FOLLOWS:

A FLEXIBLE ROOF DIAPHRAGM SHEATHED WITH METAL DECK ON LIGHT GAUGE JOISTS, TRANSFERS LATERAL FORCES TO SUREBOARD SHEATHED SHEARWALLS. OVERTURNING FORCES ARE RESISTED BY HOLDOWNS AND STEEL COLUMNS. LATERAL FORCES ARE TRANSFERRED TO CONVENTIONAL FOUNDATIONS AND RESISTED BY THE EARTH.

REFERENCE SHEET S7.02 FOR SFRS ELEVATIONS AND DETAILS. REFERENCE PLANS FOR ADDITIONAL SFRS COMPONENTS AND DETAILS.

REFER TO THE GENERAL STRUCTURAL NOTES AND SPECIFICATIONS FOR ADDITIONAL FABRICATING, INSTALLATION, TESTING AND INSPECTION REQUIREMENTS FOR MEMBERS THAT ARE PART OF THE SFRS.

STRUCTURAL OBSERVATIONS

THE STRUCTURAL ENGINEER OF RECORD (SEOR) WILL PERFORM STRUCTURAL OBSERVATIONS BASED ON THE REQUIREMENTS OF THE OSSC AT THE STAGES OF CONSTRUCTION LISTED BELOW. CONTRACTOR SHALL PROVIDE SUFFICIENT ADVANCED NOTICE AND ACCESS FOR THE SEOR TO PERFORM THESE OBSERVATIONS.

ITEM	COMMENTS
PRIOR TO FIRST CONCRETE POUR	AFTER REBAR PLACEMENT
DURING INITIAL STEEL ERECTION	
DURING INITIAL LIGHT GAUGE FRAMING CONSTRUCTION	
AS REQUIRED TO ADDRESS STRUCTURAL ISSUES	

A FIELD REPORT WILL BE SUBMITTED TO THE BUILDING DEPARTMENT FOLLOWING EACH SITE VISIT.

STRUCTURAL OBSERVATION IS FOR THE GENERAL CONFORMANCE OF THE STRUCTURAL DRAWINGS AND DOES NOT ALLEVIATE ANY SPECIAL INSPECTION REQUIREMENTS.

SPECIAL INSPECTIONS AND TESTING

SPECIAL INSPECTION WILL BE PROVIDED BY THE OWNER BASED ON THE REQUIREMENTS OF THE OSSC AS SUMMARIZED IN THE SPECIAL INSPECTION AND TESTING PROGRAM ON SHEETS S005-S006. CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE SPECIAL INSPECTOR TO PERFORM THESE INSPECTIONS.

SUBMITTALS

SUBMIT SHOP DRAWINGS AND OTHER SUBMITTALS TO THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND CONSTRUCTION OF STRUCTURAL ITEMS. IF THE SUBMITTALS DIFFER FROM OR ADD TO THE STRUCTURAL CONTRACT DOCUMENTS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND ACCEPTANCE BY THE SEOR.

FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DIFFER FROM OR ADD TO THE STRUCTURAL DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OREGON AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO CONSTRUCTION.

THE USE OF REPRODUCTIONS OR PHOTOCOPIES OF THE CONTRACT DRAWINGS SHALL NOT BE PERMITTED. WHEN CAD OR REVIT FILES ARE PROVIDED TO THE CONTRACTOR OR SUBCONTRACTORS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR/SUBCONTRACTOR TO REMOVE ALL INFORMATION NOT DIRECTLY RELEVANT TO THE SCOPE OF THE SUBMITTAL AS WELL AS ALL REFERENCES TO OUTSIDE SOURCE FILES.

DELEGATED DESIGN SUBMITTALS SHALL INCLUDE DESIGN DRAWINGS AND CALCULATIONS FOR ITEMS THAT ARE DESIGNED BY OTHERS. DELEGATED DESIGN SUBMITTALS SHALL BEAR THE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF OREGON ON EVERY DRAWING SHEET AND ON THE CALCULATION COVER SHEET, AND SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION. CALCULATIONS AND DETAILS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE, CONSIDERING LOCALIZED EFFECTS ON STRUCTURAL ELEMENTS. DESIGN SHALL BE BASED ON THE REQUIREMENTS OF THE OSSC AND AS NOTED UNDER "DESIGN CRITERIA".

SUBMITTALS AND DELEGATED DESIGN SUBMITTALS SHALL INCLUDE THE FOLLOWING:

ITEM	SUBMITTAL	DELEGATED DESIGN SUBMITTAL	COMMENTS
MEPF SYSTEMS ANCHORAGE AND BRACING		X	REF. TABLE NOTE 1
CONCRETE MIX DESIGNS	X		REF. TABLE NOTE 3 AND 4
CONCRETE REINFORCEMENT	X		REF. TABLE NOTE 4
CONCRETE ANCHORAGES	X		REF. TABLE NOTE 4
EMBEDDED STEEL ITEMS	X		REF. TABLE NOTE 4
CONSTRUCTION JOINT LAYOUT	X		
STRUCTURAL STEEL	X		REF. TABLE NOTE 4
STEEL WELDING PROCEDURES	X		
STRUCTURAL COLD FORMED METAL FRAMING	X		REF. TABLE NOTE 4
STEEL FASTENERS	X		
SKYLIGHTS, CURTAIN WALL, WINDOW WALL AND OTHER CLADDING AND GLAZING SYSTEMS		X	
ROOF TIE-OFF ANCHORS		X	
SUSPENDED CEILINGS		X	
OVERHEAD DOORS		X	
LIGHT POLES		X	

DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE CITY OF BEAVERTON FOR APPROVAL AFTER NOTED AS REVIEWED BY KPFF AS THE SEOR.

TABLE NOTES:

1. THE CONTRACTOR SHALL COORDINATE SEISMIC RESTRAINTS OF MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE SAFETY EQUIPMENT AND ASSOCIATED DISTRIBUTION SYSTEMS WITH THE STRUCTURE. CONNECTIONS TO STRUCTURE AND PROVISIONS FOR SEISMIC MOVEMENTS SHALL CONFORM TO ASCE 7-16 CHAPTER 13, BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF OREGON, AND SHALL BE SUBMITTED TO THE ARCHITECT AND SEOR PRIOR TO FABRICATION.

2. CONTRACTOR SHALL ENGAGE A PROFESSIONAL ENGINEER TO PREPARE AN ASSESSMENT OF ANY EXCAVATIONS THAT MAY REDUCE THE VERTICAL OR LATERAL SUPPORT OF AN EXISTING FOUNDATION AS REQUIRED BY OSSC SECTION 1803.5.7. THE ASSESSMENT SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND SHALL INCLUDE DETAILS AND SEQUENCING FOR CONSTRUCTION OF ANY UNDERPINNING OR BRACING THAT IS REQUIRED.

3. CONTRACTOR SHALL COORDINATE AND SHOW ALL REQUIRED PENETRATIONS, WITH DIMENSIONS FOR MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, TECHNOLOGY AND OTHER SERVICES ON A SINGLE DRAWING FOR REVIEW AT EACH SLAB/DECK, STRUCTURAL WALL AND/OR BEAM.

CONCRETE MIX DESIGNS

CONCRETE WORK SHALL CONFORM TO CHAPTER 19 OF THE OSSC. CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD CYLINDER TESTS PER ASTM C39. CONCRETE MIX TO BE DESIGNED AND PROPORTIONED BY THE CONTRACTOR IN ACCORDANCE WITH ACI 318-19 CHAPTER 26, ACI 301-16 SECTION 4 AND THE FOLLOWING INFORMATION:

MIX TYPE	USE	f'c (PSI)	TEST AGE (DAYS)	MAX. W/CM RATIO	MAX. AGG. SIZE	EXPOSURE CLASS			
A	MISC. INTERIOR CURBS, PADS, ETC.	3,000	28	N/A	1"	F0	S0	W0	C0
B	INTERIOR SLABS ON GRADE	4,000	28	N/A	1"	F0	S0	W0	C0
C	INTERIOR SLABS ON GRADE - ARCHITECTURALLY EXPOSED TO VIEW	3,500	28	N/A	1"	F0	S0	W0	C0
D	SLABS ON GRADE - EXPOSED TO WEATHER	3,500	28	0.55	3/4"	F1	S0	W0	C0
E	STEM WALLS, RETAINING WALLS AND SPREAD FOOTINGS	4,000	28	N/A	1"	F0	S0	W0	C0

TABLE NOTES:

1. REF. ACI 318-19 TABLE 19.3.2.1 FOR ADDITIONAL MIX REQUIREMENTS SPECIFIC TO EXPOSURE CLASS.
2. ALL CONCRETE MIXES TO BE NORMAL WEIGHT CONCRETE, U.N.O.
3. EXPOSURE CATEGORY "F" APPLIES TO LEVEL OF FREEZE THAW EXPOSURE.
4. EXPOSURE CATEGORY "S" APPLIES TO LEVEL OF SULFATE EXPOSURE.
5. EXPOSURE CATEGORY "W" APPLIES TO REQUIRED LEVEL OF PERMEABILITY.
6. EXPOSURE CATEGORY "C" APPLIES TO CORROSIVE LOCATIONS - INCLUDING SURROUNDING ENVIRONMENT (SUCH AS MARINE ENVIRONMENT) AND CORROSIVE SOILS.
7. ESTABLISH WATER-CEMENTITIOUS MATERIAL RATIO PER ACI 301-16 SECTION 4.
8. VERIFY WATER-CEMENTITIOUS MATERIAL RATIO WITH FLOOR COVERING MANUFACTURER FOR CONCRETE FLOORS WITH MOISTURE SENSITIVE FLOOR COVERINGS.
9. REFERENCE SLABS EXPOSED TO VIEW GENERAL NOTES FOR ADDITIONAL MIX REQUIREMENTS.
10. MIX TYPE C SHALL UTILIZE MICROSYNTHETIC AND/OR MACROSYNTHETIC FIBERS CONFORMING TO ASTM C1116/C116M, TYPE III. REFERENCE PROJECT SPECIFICATIONS.

PORTLAND CEMENT CONTENT MAY BE REPLACED WITH FLY ASH CONFORMING TO ASTM C618 (INCLUDING TABLE 2A) TYPE F OR TYPE C, SLAG CEMENT CONFORMING TO ASTM C989, AND SILICA FUME CONFORMING TO ASTM C1240 PROVIDED THAT THE MIX STRENGTH IS SUBSTANTIATED BY TEST DATA.

FOR MIX DESIGNS WITH f'c = 5,000 PSI OR LESS, SLAG CEMENT MAY BE SUBSTITUTED FOR FLY ASH AT A 1:1 RATIO WITHOUT TEST DATA. WHEN SLAG CEMENT IS SUBSTITUTED IN HIGHER STRENGTH MIXES OR AT A DIFFERENT RATIO, THE MIX STRENGTH MUST BE SUBSTANTIATED BY TEST DATA.

LIMITS ON CEMENTITIOUS MATERIALS FOR CONCRETE ASSIGNED TO EXPOSURE CLASS F3 SHALL FOLLOW THE LIMITS IN THE TABLE BELOW:

A WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494 USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS SHALL BE INCORPORATED IN CONCRETE MIX DESIGNS. A HIGH-RANGE WATER-REDUCING (HRWR) ADMIXTURE CONFORMING TO ASTM C494 TYPE F OR G MAY BE USED IN CONCRETE MIXES PROVIDING THAT THE SLUMP DOES NOT EXCEED 10".

ARCHITECTURALLY EXPOSED SLABS

REFERENCE PLANS OR ARCHITECTURAL DRAWINGS FOR SLABS ON GRADE AND SLABS ON DECK THAT ARE INTENDED TO BE EXPOSED TO VIEW. IN ADDITION TO THE REQUIREMENTS ABOVE UNDER CONCRETE NOTES, FINE AGGREGATE GRADING SHALL CONFORM TO ASTM C33 AND COMBINED AGGREGATE GRADING SHALL CONFORM TO ACI 302.1R. CONCRETE SHRINKAGE SHALL BE LESS THAN 0.04% AT 28 DAYS WHEN TESTED PER ASTM C157. SHRINKAGE TEST DATA TO BE SUBMITTED FOR APPROVAL WITH THE MIX DESIGN.

CONTRACTOR SHALL PROTECT EXPOSED SLABS FROM DAMAGE DUE TO EQUIPMENT AND OTHER UNINTENDED LOADING DURING CONSTRUCTION.

REFERENCE SLAB ON GRADE DETAILS FOR ADDITIONAL INFORMATION ON SUBGRADE RECOMMENDATIONS. REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS INCLUDING CURING, FINISHING AND VAPOR BARRIER/RETARDER.

CONTRACTOR SHALL COORDINATE AND SUBMIT CONCRETE CONSTRUCTION JOINT AND CONTROL JOINT LAYOUTS FOR REVIEW AND APROVAL.

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 54828PE OREGON JULY 25, 2008 AARON J. BURKHARDT

EXPIRES 12/31/27

GENERAL STRUCTURAL NOTES

S0.02

CONCRETE REINFORCING STEEL

CONCRETE REINFORCEMENT SHALL BE AS LISTED BELOW. ASTM A615 REINFORCEMENT MAY BE SUBSTITUTED FOR ASTM A706 REINFORCEMENT PROVIDED THAT THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED Fy BY MORE THAN 18,000 PSI AND THE RATIO OF ACTUAL TENSILE STRENGTH TO ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25 AND THE ELONGATION REQUIREMENTS OF ASTM A706 ARE MET PER ACI 318-19 SECTION 20.2.2.5. MILL TESTS CERTIFICATIONS FOR SUBSTITUTED BARS SHALL BE SUBMITTED TO THE SPECIAL INSPECTOR AND SEOR PRIOR TO PLACEMENT. ASTM A706 REINFORCEMENT MAY BE SUBSTITUTED FOR ASTM A615 REINFORCEMENT.

REINFORCING LOCATION	MATERIAL GRADE
ALL OTHER USES U.N.O.	ASTM A615 GRADE 60

ALL REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH #16 ANNEALED IRON WIRE. BARS IN BEAMS AND SLABS SHALL BE SUPPORTED ON WELL-CURED CONCRETE BLOCKS OR APPROVED METAL OR PLASTIC CHAIRS, AS SPECIFIED BY THE CRSI MANUAL OF STANDARD PRACTICE, MSP-1. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI MNL-66 "ACI DETAILING MANUAL". SHOP DRAWINGS SHALL INCLUDE ELEVATIONS OF ALL BEAMS, WALLS AND COLUMNS SHOWING BAR LOCATIONS.

REINFORCING BARS SHALL NOT BE BENT OR STRAIGHTENED IN THE FIELD WITHOUT APPROVAL OF THE SEOR. PREHEATING METHODS SHALL BE SUBMITTED TO THE SEOR FOR APPROVAL PRIOR TO BENDING OF BARS #6 OR LARGER.

LAP ALL REINFORCING BARS PER THE TYPICAL LAP SPLICE LENGTH SCHEDULES, EXCEPT AS NOTED ON DRAWINGS. USE LAP LENGTH FOR SMALLER BAR WHEN SPLICING DIFFERENT BAR SIZES. BARS SPLICED WITH NONCONTACT LAPS SHALL BE SPACED NO FARTHER THAN 1/5TH THE LAP LENGTH OR 6 INCHES. MECHANICAL SPLICES NOTED ON THE PLANS SHALL BE DAYTON SUPERIOR BAR-LOCK OR TAPER-LOCK COUPLERS (UES ER-319) OR APPROVED EQUAL WITH A CURRENT EVALUATION REPORT. FOR CONCRETE STRENGTHS BETWEEN TABULATED VALUES, USE LAP SPLICE LENGTHS FOR NEAREST LOWER CONCRETE STRENGTH INDICATED.

TYP. WALL AND SLAB LAP SPLICE LENGTH SCHEDULE (IN.) - 60 KSI

BAR SIZE	WALL VERTICAL AND SLAB BOTTOM BARS						WALL HORIZONTAL AND SLAB TOP BARS					
	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	≥ 8,000 PSI	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	≥ 8,000 PSI
#3	18	16	16	16	16	16	24	20	18	18	16	16
#4	30	26	24	22	20	18	38	34	30	28	26	24
#5	36	32	28	26	24	22	48	42	36	34	32	30
#6	44	38	34	32	28	28	56	50	44	40	38	36
#7	70	60	54	50	46	44	90	78	70	64	60	56
#8	86	74	68	62	56	54	112	98	88	80	74	70

TYP. FOUNDATION AND MAT LAP SPLICE LENGTH SCHEDULE (IN.) - 60 KSI

BAR SIZE	BOTTOM BARS						TOP BARS					
	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	8,000 PSI	3,000 PSI	4,000 PSI	5,000 PSI	6,000 PSI	7,000 PSI	≥ 8,000 PSI
#3	18	14	14	12	12	12	22	20	18	16	14	14
#4	22	20	18	16	14	14	28	26	22	20	20	18
#5	28	24	22	20	18	18	36	32	28	26	24	22
#6	34	28	26	24	22	22	42	38	34	30	28	28
#7	48	42	38	34	32	30	62	54	48	44	42	38
#8	54	48	42	38	36	34	70	62	54	50	46	44
#9	62	54	48	44	40	38	80	70	62	58	52	50
#10	70	60	54	50	46	42	90	78	70	64	60	56
#11	80	70	64	58	54	50	104	90	82	74	68	64

TABLE NOTES:

1. SPLICE LENGTHS ARE FOR MEMBERS THAT ARE NOT PART OF THE SFRS. REFERENCE PLANS AND ELEVATIONS FOR LAP SPLICES LENGTHS AT SFRS ELEMENTS.
2. SPLICE LENGTHS APPLY TO ASTM A615 OR ASTM A706 GRADE 60 DEFORMED REINFORCING BARS ONLY.
3. SPLICE LENGTHS ARE BASED ON THE CLEAR COVER AND MINIMUM BAR CLEAR SPACING INDICATED BELOW.
4. SPLICE LENGTHS APPLY TO NORMAL WEIGHT CONCRETE ONLY. MULTIPLY TABLE VALUES BY 1.3 FOR LIGHT-WEIGHT CONCRETE.
5. SPLICE LENGTHS APPLY TO UNCOATED BARS ONLY. MULTIPLY TABLE VALUES BY 1.5 FOR EPOXY-COATED BARS.
6. COMBINATIONS OF EFFECTS DUE TO CONCRETE STRENGTH, CONCRETE WEIGHT, AND EPOXY COATING ARE CUMULATIVE.
7. SLAB, FOUNDATION AND MAT TOP BARS ARE BARS CAST ABOVE MORE THAN 12" OF FRESH CONCRETE. ALL OTHER SLAB BARS MAY BE CONSIDERED BOTTOM BARS.

REINFORCING STEEL SHALL HAVE PROTECTION AND SPACING AS FOLLOWS:

CONCRETE COVER

USE	CLEAR COVER	MIN. CLEAR SPACING
BEAMS, JOISTS AND COLUMNS	1-1/2" (TO STIRRUPS OR TIES)	4db
ONE-WAY SLABS	3/4"	2db OR 1"
WALLS: INTERIOR FACES	3/4"	2db OR 1"
CONCRETE EXPOSED TO EARTH OR WEATHER	1-1/2" (#5 AND SMALLER) 2" (#6 AND LARGER)	2db OR 1"
CONCRETE CAST AGAINST AND EXPOSED TO EARTH	3"	3db OR 1"

REINFORCED CONCRETE MASONRY

CONCRETE MASONRY UNITS SHALL COMPLY WITH ASTM C90, MEDIUM WEIGHT, SAMPLED AND TESTED IN ACCORDANCE w/ ASTM C140. LINEAL SHRINKAGE FOR UNITS SHALL NOT EXCEED 0.065%. BLOCK COMPRESSIVE STRENGTH SHALL BE AS INDICATED IN BELOW TABLE. ASSEMBLIES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'm) AS INDICATED IN BELOW TABLE AS VERIFIED BY THE UNIT STRENGTH METHOD CONFORMING TO OSSC CHAPTER 17 AND TMS 602-16. WALLS SHALL BE REINFORCED AS SHOWN ON THE PLANS AND DETAILS AND, IF NOT SHOWN, SHALL BE AS NOTED UNDER "MASONRY REINFORCING STEEL". PROVIDE VERTICAL EXPANSION JOINTS IN CONTINUOUS MASONRY SUCH THAT THE DISTANCE BETWEEN JOINTS DOES NOT EXCEED THE LESSER OF A LENGTH-TO-HEIGHT RATIO OF 1.5 OR 25 FT. REFERENCE ARCHITECTURAL DRAWINGS FOR LOCATIONS.

ASSEMBLY STRENGTH

f'm (PSI)	BLOCK UNIT STRENGTH (PSI)	GROUT STRENGTH (PSI)	MORTAR
2,000	2,000	2,000	TYPE M OR S

MORTAR

MORTAR SHALL BE OF THE TYPE INDICATED IN THE PRECEDING TABLE, WITH A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 1,800 PSI FOR TYPE S MORTAR OR 2,500 PSI FOR TYPE M MORTAR AND SHALL CONFORM WITH ASTM C270 AND OSSC SECTION 2103.

MASONRY GROUT

GROUT SHALL HAVE COMPRESSIVE STRENGTH AS INDICATED IN THE PRECEDING TABLE AND SHALL CONFORM TO OSSC SECTION 2103. GROUT SHALL CONSIST OF A MIXTURE OF CEMENTITIOUS MATERIALS AND AGGREGATE TO WHICH SUFFICIENT WATER HAS BEEN ADDED TO CAUSE THE MIXTURE TO FLOW WITHOUT SEGREGATION OF THE CONSTITUENTS. ALL CELLS CONTAINING VERTICAL BARS AND ALL BOND BEAMS SHALL BE FILLED WITH GROUT. FULLY GROUT ALL STRUCTURAL MASONRY WALLS UNLESS NOTED OTHERWISE.

THE MAXIMUM GROUT POUR HEIGHT SHALL BE 12'-8". CLEAN-OUTS ARE REQUIRED FOR ANY POUR HEIGHT GREATER THAN 5'-4". WHERE REQUIRED, CLEAN-OUTS SHALL BE LOCATED AT ALL CORES CONTAINING VERTICAL REINFORCEMENT AND AT A MAXIMUM OF 32" O.C. GROUT LIFTS GREATER THAN 5'-4" ARE LIMITED IN HEIGHT TO THE BOTTOM OF THE LOWEST BOND BEAM THAT IS MORE THAN 5'-4" ABOVE THE BOTTOM OF THE LIFT, PROVIDED THAT: 1) THE MASONRY HAS CURED FOR AT LEAST 4 HOURS, AND 2) THE GROUT SLUMP IS MAINTAINED BETWEEN 10 AND 11 INCHES. IF EITHER OF THESE TWO CONDITIONS ARE NOT MET, THEN THE MAXIMUM LIFT HEIGHT SHALL BE 5'-4". REFERENCE TYPICAL MASONRY DETAILS.

MASONRY REINFORCING STEEL

REINFORCING SHALL CONFORM TO OSSC SECTION 2103.4 AND TMS 602-16 ARTICLE 2.4. DEFORMED BARS SHALL BE ASTM A615 GRADE 60, AND SHALL BE SECURELY PLACED IN ACCORDANCE WITH TMS 602-16 SPECIFICATION SECTION 3.4. WELDED REINFORCEMENT SHALL CONFORM TO ASTM A706 GRADE 60. UNLESS NOTED OTHERWISE ON THE PLANS, THE MINIMUM WALL REINFORCEMENT SHALL BE AS FOLLOWS:

RUNNING BOND PATTERN

WALL THICKNESS	VERTICAL BARS	HORIZONTAL BARS (IN BOND BEAMS)
6"	#5 @ 48" o.c.	#5 @ 48" o.c.
8"	#6 @ 48" o.c.	(2) #4 @ 48" o.c.
10"	#6 @ 48" o.c.	(2) #5 @ 48" o.c.
12"	#6 @ 48" o.c.	(2) #5 @ 48" o.c.

STACK BOND PATTERN

WALL THICKNESS	VERTICAL BARS	HORIZONTAL BARS (IN BOND BEAMS)
6"	#4 @ 24" o.c.	#4 @ 24" o.c.
8"	#4 @ 24" o.c.	#4 @ 24" o.c.
10"	#5 @ 24" o.c.	#5 @ 24" o.c.
12"	#5 @ 24" o.c.	#5 @ 24" o.c.

REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315. SHOP DRAWINGS SHALL INCLUDE ELEVATIONS OF ALL STRUCTURAL CMU WALLS SHOWING LOCATIONS OF BOND BEAMS, BARS, AND OTHER SPECIAL REINFORCEMENT.

BOND BEAMS WITH TWO #5 BARS HORIZONTALLY SHALL BE PROVIDED AT ALL FLOOR AND ROOF LINES AND AT THE TOP OF WALLS. STEP BOND BEAMS AS REQUIRED TO MATCH ROOF SLOPES. PROVIDE A BOND BEAM WITH TWO #5 BARS HORIZONTALLY ABOVE AND BELOW ALL OPENINGS, AND EXTEND THESE BARS 2'-0" PAST THE OPENING AT EACH SIDE. PROVIDE ONE BAR, MATCHING VERTICAL BAR SIZE, FOR THE FULL HEIGHT OF THE WALL AT EACH SIDE OF OPENINGS, WALL ENDS, AND INTERSECTIONS. DOWELS TO MASONRY WALLS SHALL BE EMBEDDED A MINIMUM OF 1'-0" OR HOOKED INTO THE SUPPORTING STRUCTURE AND BE OF THE SAME SIZE AND SPACING AS WALL REINFORCING. PROVIDE CORNER BARS TO MATCH THE HORIZONTAL WALL REINFORCING AT WALL INTERSECTIONS.

LAP ALL REINFORCING BARS AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:

TYP. LAP SPLICE LENGTH SCHEDULE (IN.), f'm = 2,000 PSI

BAR SIZE	CASE 1	CASE 2		
	ALL BLOCK	8" BLOCK	10" BLOCK	12" BLOCK
#3	16	12	12	12
#4	29	12	12	12
#5	45	19	15	12
#6	54	37	29	23
#7	63	51	40	32
#8	72	72	61	49
#9	81	81	78	63

TABLE NOTES:

1. CASE DEFINITIONS:
   - **CASE 1** BARS LOCATED NEAR THE FACE OF BLOCK WITH ONLY MINIMUM COVER OR CELLS WITH MORE THAN ONE BAR.
   - **CASE 2** SINGLE BARS LOCATED AT THE CENTER OF A CELL.
2. MAXIMUM OF TWO BARS IN ONE CELL (FOUR BARS AT LAP SPLICE).
3. AT CONTRACTOR'S OPTION PROVIDE MECHANICAL SPLICES FOR #8 AND #9 BARS.
4. STAGGER HORIZONTAL BOND BEAM LAP SPLICES BY 24" MINIMUM.

PROVIDE CLEAR COVER TO MASONRY REINFORCING AS FOLLOWS:

REINFORCING STEEL COVER

USE	MINIMUM COVER (TO OUTSIDE FACE OF MASONRY)
MASONRY FACE NOT EXPOSED TO EARTH OR WEATHER	1 1/2"
MASONRY FACE EXPOSED TO EARTH OR WEATHER	1 1/2" (#5 AND SMALLER)
	2" (#6 AND LARGER)

STRUCTURAL STEEL

STRUCTURAL STEEL SHALL BE OF THE MATERIAL AND TYPE LISTED BELOW, U.N.O.:

STRUCTURAL STEEL

SHAPE	MATERIAL GRADE
WIDE FLANGE SHAPES	ASTM A992, GRADE 50
PLATES WHERE NOTED	ASTM A572, GRADE 50
CHANNELS, PLATES AND ANGLES, U.N.O.	ASTM A36
HOLLOW STRUCTURAL SECTIONS (RECTANGULAR)	ASTM A500, GRADE C (Fy=50KSI)
HOLLOW STRUCTURAL SECTIONS (ROUND)	ASTM A500, GRADE C (Fy=46KSI)
PIPES	ASTM A53, GRADE B (Fy=35 KSI)

STRUCTURAL STEEL THAT IS PART OF THE SEISMIC FORCE-RESISTING SYSTEM SHALL MEET THE FOLLOWING MATERIAL SPECIFICATIONS, U.N.O.:

STRUCTURAL STEEL - SFRS

SHAPE	MATERIAL GRADE
PLATES, CHANNELS AND ANGLES	ASTM A572, GRADE 50
HOLLOW STRUCTURAL SECTIONS (RECTANGULAR AND ROUND)	ASTM A1085, GRADE A (FY=50KSI)

DESIGN, DETAILING, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE AISC 360, "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" WITH "COMMENTARY" AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", WITH THE FOLLOWING CLARIFICATIONS AND ADDITIONS:

1. CLARIFY SECTIONS 7.5.1 AND 7.5.3 AS FOLLOWS:
   EMBEDMENT LOCATION DRAWINGS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR INFORMATION ONLY. THE SEOR IS NOT RESPONSIBLE FOR THE APPROVAL OF EMBEDMENT LOCATION DRAWINGS.
2. ADD THE FOLLOWING PARAGRAPH TO SECTION 7.10.3:
   "THE ERECTOR SHALL HAVE THE SOLE RESPONSIBILITY FOR DETERMINING THE MEANS AND METHODS USED TO PROPERLY AND ADEQUATELY BRACE THE FRAMING DURING ERECTION."

REFERENCE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR MEMBERS PART OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS).

WELDING SHALL CONFORM TO THE AWS CODES FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH A WELDING PROCEDURE SPECIFICATION (WPS) AS REQUIRED IN AWS D1.1 AND APPROVED BY THE STRUCTURAL ENGINEER. THE WPS VARIABLES SHALL BE WITHIN THE PARAMETERS ESTABLISHED BY THE FILLER-METAL MANUFACTURER. FOR MEMBERS INCLUDED IN THE SEISMIC FORCE RESISTING SYSTEM (SFRS), REQUIREMENTS OF AWS D1.8 SHALL APPLY.

FOR MEMBERS AND CONNECTIONS THAT ARE PART OF THE SEISMIC FORCE RESISTING SYSTEM, DISCONTINUITIES CREATED BY ERRORS OR BY FABRICATION OR ERECTION OPERATIONS, SUCH AS TACK WELDS, ERECTION AIDS, AIR-ARC GOUGING, AND FLAME CUTTING, SHALL BE REPAIRED AS REQUIRED BY THE STRUCTURAL ENGINEER.

WELDS SHALL BE MADE USING E70XX ELECTRODES AND SHALL BE 3/16" MINIMUM, UNLESS OTHERWISE NOTED. WELDING SHALL BE BY AWS CERTIFIED WELDERS.

PROVIDE WEEP HOLES AT EXTERIOR CLOSED SECTIONS WHERE MOISTURE MAY ACCUMULATE. LOCATE WEEP HOLES AT BOTTOM OF HORIZONTAL MEMBERS AT MIDSPAN UNLESS OTHER NOTED. LOCATE WEEP HOLES AT BOTTOM OF VERTICAL MEMBERS EXCEPT AT ROOF ASSEMBLIES. ALL WEEP HOLES TO BE APPROVED PRIOR TO FABRICATION.

NON-SHRINK GROUT USED UNDER BEARING AND BASE PLATES SHALL BE ASTM C 1107, FACTORY-PACKAGED, NONMETALLIC AGGREGATE GROUT, NONCORROSIVE, NONSTAINING, MIXED WITH WATER TO CONSISTENCY SUITABLE FOR APPLICATION AND A 30-MINUTE WORKING TIME. GROUT STRENGTH SHALL BE 8,000 PSI MINIMUM AT 28 DAYS.

DISSIMILAR METALS SHALL BE SEPARATED AS REQUIRED TO PREVENT GALVANIC CORROSION BY COMPLETELY COVERING CONTACT AREAS WITH HESKINS 3453 CORROSION PROTECTION TAPE OR APPROVED EQUAL MATERIAL.

GALVANIZING AND DUPLEX COATING

ALL STEEL EXPOSED TO WEATHER OR LOCATED OUTSIDE THE BUILDING ENVELOPE SHALL BE HOT-DIP GALVANIZED UNLESS NOTED OTHERWISE IN PROJECT SPECIFICATIONS OR DRAWINGS. WHERE THESE ELEMENTS ARE ALSO EXPOSED TO VIEW THEY SHALL ADDITIONALLY BE PAINTED OR POWDER COATED PER SPECIFICATIONS AND ARCHITECTURAL DRAWINGS.

CONTRACTOR TO COMMUNICATE WITH GALVANIZER FOR THE PROJECT EARLY ON TO INFORM THE GALVANIZER THAT THE STEEL IS TO RECEIVE A DUPLEX COATING. HOT DIPPED GALVANIZED STEEL THAT IS TO BE PAINTED SHALL BE PREPARED PER ASTM D6386. HOT DIPPED GALVANIZED STEEL THAT IS TO BE POWDER COATED SHALL BE PREPARED PER ASTM D7803.

ALL GALVANIZED STEEL IS TO BE DETAILED TO BE SHOP WELDED AND FIELD BOLTED. WHERE FIELD WELDING IS REQUIRED DUE TO FIELD CONDITIONS, REPAIR DAMAGED GALVANIZED COATING WITH ZINC RICH PAINT PER ASTM A780 WITH EFFECTIVE THICKNESS EQUAL TO HOT-DIP GALVANIZED COATING.

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GENERAL STRUCTURAL NOTES

S0.03

COLD-FORMED METAL FRAMING

STEEL STUDS SHALL BE C-STUDS WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI FOR 33 AND 43 MIL AND 50,000 PSI FOR 54, 68 AND 97 MIL THICKNESSES. GAUGE PLATE AND STRAPS SHALL HAVE A MINIMUM YIELD STRENGTH OF 30,000 PSI FOR 33 AND 43 MIL AND 50,000 PSI FOR 54, 68 AND 97 MIL THICKNESSES. COLD-FORMED FRAMING SHALL BE OF THE SIZE, GAUGE, AND SPACING SHOWN ON THE DRAWINGS.

THE AMERICAN IRON AND STEEL INSTITUTE AND STEEL STUD MANUFACTURES ASSOCIATION (SSMA) STANDARDS ARE USED IN THIS PACKAGE. PRODUCTS USED SHALL MEET OR EXCEED AISI STANDARDS AND ARE DESIGNATED BY THE FOLLOWING FOUR PART IDENTIFICATION CODE:

EXAMPLE: **362 S 162 - 33**

362	INDICATES WEB DEPTH (IN 1/100 OF AN INCH)
S	INDICATES SHAPE STYLE (S, T, U OR F)
162	INDICATES FLANGE WIDTH (IN 1/100 OF AN INCH)
33	INDICATES MATERIAL MIL THICKNESS (1 MIL = 1/1,000 INCH)

PROVIDE BRIDGING ADEQUATE TO DEVELOP THE FULL MOMENT CAPACITY OF STUDS IN CONFORMANCE WITH THE STEEL STUD MANUFACTURERS ASSOCIATION'S (SSMA) RECOMMENDATIONS.

ALL FIELD CUTTING OF STUDS MUST BE BY SAWING, SHEARING, OR PLASMA CUTTING. OTHER CUTTING METHODS OF COLD-FORMED MEMBERS ARE UNACCEPTABLE.

NO NOTCHING OR COPING OF STUDS IS ALLOWED, UNLESS NOTED OTHERWISE.

ENDS OF AXIAL LOAD BEARING WALL STUDS SHALL HAVE SQUARE END CUTS AND SHALL BE SEATED TIGHT AGAINST THE TRACKS WITH A MAXIMUM GAP TOLERANCE OF 1/8" BETWEEN THE STUD AND TRACK. FOR STUDS WITH A MATERIAL THICKNESS OF 68 MIL AND GREATER, THE MAXIMUM GAP TOLERANCE IS REDUCED TO 1/16".

SPLICING OF WALL STUDS OR HEADERS IS NOT ALLOWED, UNLESS NOTED OTHERWISE.

CONTRACTOR TO ENSURE PUNCH OUT ALIGNMENT WHEN ASSEMBLING LATERAL BRACING AND FIELD CUTTING STUDS TO LENGTH.

ALL HEADERS/BUILT-UP BEAMS ARE TO BE CONSTRUCTED WITH UNPUNCHED MATERIAL ONLY.

COLD-FORMED FRAMING CONNECTIONS SHALL BE AS FOLLOWS:

COLD-FORMED METAL FRAMING CONNECTIONS

FASTENER	PRODUCT
SCREWS	ELCO DRIL-FLEX OR HILTI KWIK-FLEX (ESR-3332)
PAF'S	HILTI X-U (ESR-2269)

FOR SCREWS, PROVIDE 3/4" MINIMUM CLEARANCE FROM ALL EDGES AND 3/4" MINIMUM CENTER TO CENTER SPACING.

FASTENERS OF COMPARABLE SPECIFICATIONS AND LOAD CAPACITIES MAY BE SUBMITTED FOR APPROVAL.

WELDING SHALL CONFORM WITH AWS D1.3.

WOOD STRUCTURAL PANELS

THE TERM "WOOD STRUCTURAL PANEL" REFERS TO A WOOD-BASED PANEL PRODUCT BONDED WITH A WATERPROOF ADHESIVE INCLUDING BOTH PLYWOOD AND ORIENTED STRAND BOARD (OSB). WOOD STRUCTURAL PANELS SHALL CONFORM TO U.S. DEPARTMENT OF COMMERCE VOLUNTARY PRODUCT STANDARDS PS1 OR PS2 FOR WOOD-BASED STRUCTURAL USE PANELS, OR APA PERFORMANCE STANDARD PRP-108 (ICC-ES ESR-2586). PANELS SHALL BE APA RATED SHEATHING OR APA RATED STURD-I-FLOOR, EXTERIOR OR EXPOSURE 1, OF THE THICKNESS AND SPAN RATING SHOWN ON THE DRAWINGS. PANELS SHALL BE STAMPED WITH THE APA TRADEMARK.

WOOD STRUCTURAL PANEL INSTALLATION SHALL BE IN CONFORMANCE WITH APA RECOMMENDATIONS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES, UNLESS OTHERWISE INDICATED OR RECOMMENDED BY THE PANEL MANUFACTURER.

ALL ROOF SHEATHING SHALL BE INSTALLED WITH FACE GRAIN OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS, EXCEPT AS INDICATED ON THE DRAWINGS. ROOF SHEATHING SHALL EITHER BE BLOCKED, TONGUE-AND-GROOVE, OR HAVE EDGES SUPPORTED BY PLYCLIPS. WHERE BLOCKING IS SPECIFICALLY INDICATED ON THE DRAWINGS, T&G EDGES OR PLYCLIPS MAY NOT BE SUBSTITUTED. SHEATHING SHALL BE UNBLOCKED, EXCEPT AS INDICATED ON DRAWINGS.

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STRUCTURAL REGISTERED PROFESSIONAL ENGINEER 94828PE OREGON DEC. 25, 2015 AARON J. BURKHARDT

EXPIRES 12/31/27

GENERAL STRUCTURAL NOTES

S0.04

STATEMENT OF SPECIAL INSPECTION NOTES:

1. SPECIAL INSPECTIONS SHALL CONFORM TO SECTION 1705 OF THE 2022 OSSC, CONTRACT DOCUMENTS AND APPROVED SUBMITTALS. REFER TO SPECIAL INSPECTION AND TESTING TABLES FOR PROJECT REQUIREMENTS.

2. SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED ACCREDITED INDEPENDENT AGENCY MEETING THE REQUIREMENTS OF ASTM E329 (MATERIALS). THE INSPECTION AND TESTING AGENCY SHALL FURNISH TO THE STRUCTURAL ENGINEER ARCHITECT A COPY OF THEIR SCOPE OF ACCREDITATION. SPECIAL INSPECTORS SHALL BE APPROVED BY THE BUILDING OFFICIAL. WELDING INSPECTORS SHALL BE QUALIFIED PER SECTION 6.1.4.1(1) OF AWS D1.1.

3. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS.

4. THE SPECIAL INSPECTOR AND GEOTECHNICAL ENGINEER SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, STRUCTURAL ENGINEER, ARCHITECT, CONTRACTOR, AND OWNER. THE SPECIAL INSPECTION AGENCY SHALL SUBMIT A FINAL REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPANCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.

5 QUALITY ASSURANCE (QA) IS REQUIRED FOR STRUCTURAL STEEL ITEMS PER AISC 360 AND 341 UNLESS SPECIFICALLY NOTED OTHERWISE. QUALITY CONTROL (QC) TO BE PROVIDED BY THE FABRICATOR, ERECTOR OR OTHER RESPONSIBLE CONTRACTOR AS APPLICABLE. CONTRACTOR AND SPECIAL INSPECTOR TO DOCUMENT QUALITY CONTROL AS REQUIRED IN AISC 360 SECTION N3 AND AISC 341 SECTION J2.

6 **INSPECTION TYPES:**
CONTINUOUS : THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
PERIODIC : THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.
OBSERVE : OBSERVE THESE FUNCTIONS ON A RANDOM, DAILY BASIS. OPERATIONS NEED NOT BE DELAYED PENDING OBSERVATIONS.
PERFORM : INSPECTIONS SHALL BE PERFORMED PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM.

7 PERFORM INSPECTION PRIOR TO FINAL ACCEPTANCE OF THE ITEM FOR TEN WELDS TO BE MADE BY A GIVEN WELDER, WITH THE WELDER DEMONSTRATING UNDERSTANDING OF REQUIREMENTS AND POSSESSION OF SKILLS AND TOOLS TO VERIFY THESE ITEMS, THE PERFORM DESIGNATION OF THIS TASK SHALL BE REDUCED TO OBSERVE, AND THE WELDER SHALL PERFORM THIS TASK. SHOULD THE INSPECTOR DETERMINE THAT THE WELDER HAS DISCONTINUED PERFORMANCE OF THIS TASK, THE TASK SHALL BE RETURNED TO PERFORM UNTIL SUCH TIME AS THE INSPECTOR HAS RE-ESTABLISHED ADEQUATE ASSURANCE THAT THE WELDER WILL PERFORM THE INSPECTION TASKS LISTED.

8 SPECIAL INSPECTION OF MECHANICAL POST INSTALLED ANCHORS SHALL BE IN STRICT CONFORMANCE WITH THE ICC REPORT AND MANUFACTURER'S INSTALLATION REQUIREMENTS. ANCHOR INSTALLERS SHALL BE QUALIFIED AS REQUIRED BY JURISDICTION REQUIREMENTS.

- INSPECTION REPORTS SHALL IDENTIFY NAMES OF INSTALLERS.
- SPECIAL INSPECTOR SHALL PROVIDE DOCUMENTATION AT THE END OF ANCHOR INSTALLATIONS STATING THAT THE ANCHORS WERE INSPECTED PER APPROVED ANCHOR EVALUATION REPORT.

9 **TESTING ABBREVIATIONS:**
NDT - NON-DESTRUCTIVE TESTING
C.J.P. - COMPLETE JOINT PENETRATION
MT - MAGNETIC PARTICLE TESTING
RBS - REDUCED BEAM SECTION

10 DOCUMENT (D): INDICATES CONTRACTOR AND SPECIAL INSPECTOR TO PROVIDE DOCUMENTATION IN ACCORDANCE WITH AISC 341.

CONTRACTOR RESPONSIBILITY:

EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND-OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND-OR SEISMIC-RESISTING COMPONENT LISTED THE TABLES SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.

1. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.

2. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND DISTRIBUTION OF THE REPORTS.

3. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

GENERAL - SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		REMARKS
			CONTINUOUS	PERIODIC	
FABRICATORS	1705.11 1704.2.5				SPECIAL INSPECTION IS REQUIRED FOR STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES FABRICATED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS SHALL BE PERFORMED DURING FABRICATION. PERFORMING SPECIAL INSPECTIONS IS NOT REQUIRED, WHERE FABRICATOR HAS BEEN APPROVED AS AN APPROVED FABRICATOR, PER SECTION 1704.2.5.1.
DEFERRED SUBMITTALS				X	SPECIAL INSPECTION REQUIREMENTS FOR DEFERRED SUBMITTAL ITEMS, INCLUDING REQUIREMENTS FOR DESIGNATED SEISMIC SYSTEMS IN ACCORDANCE WITH OSSC SECTION 1705.13.4 IF APPLICABLE, TO BE SPECIFIED BY THE SYSTEM ENGINEER AND INCLUDED WITH DEFERRED SUBMITAL DOCUMENTS.
SUBMITTALS TO THE BUILDING OFFICIAL	1704.5			X	CERTIFICATES OF COMPLIANCE, REPORTS OF PRE-CONSTRUCTION TESTS, OR REPORTS OF MATERIAL PROPERTIES SHALL BE SUBMITTED TO THE BUILDING OFFICIAL.
SPECIAL CASES / PRE-ENGINEERED STRUCTURES	1705.1.1	MBMA	X	X	REFER TO DEFERRED SUBMITTALS AND FABRICATORS REQUIREMENTS
POST INSTALLED ADHESIVE ANCHORS WITH SUSTAINED TENSION LOADS INSTALLED HORIZONTALLY OR AT AN UPWARD INCLINE IN HARDENED CONCRETE		ACI 318: 17.2.5	X		Note 8
POST INSTALLED MECHANICAL ANCHORS AND ADHESIVE ANCHORS (EXCLUDING CONDITIONS NOTED ABOVE) IN HARDENED CONCRETE				X	

SOILS/GEOTECHNICAL - SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARDS REFERENCE	FREQUENCY (NOTE 6)		REMARKS
			CONTINUOUS	PERIODIC	
SOILS					
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	1705.6	GEOTECHNICAL REPORT		X	BY THE GEOTECHNICAL ENGINEER OR QUALIFIED SPECIAL INSPECTOR
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL				X	
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS				X	
DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY 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	

SOILS/GEOTECHNICAL - TESTING

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		REMARKS
			CONTINUOUS	PERIODIC	
FILL IN-PLACE DENSITY OR PREPARED SUBGRADE DENSITY	1705.6	VARIES; GEOTECHNICAL REPORT OR MINIMUM PER OSSC APPENDIX J107.5, WHICHEVER IS GREATER		X	BY THE GEOTECHNICAL ENGINEER OR QUALIFIED SPECIAL INSPECTOR
MATERIAL VERIFICATION		VARIES; CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS		X	BY THE GEOTECHNICAL ENGINEER OR QUALIFIED SPECIAL INSPECTOR
TEST ELEMENTS	1705.1 1705.7 1705.8 1705.9		REFERENCE SPECIFICATIONS FOR PERFORMANCE VARIFICATION AND PROOF LOAD TESTING REQUIREMENTS		BY THE GEOTECHNICAL ENGINEER
TESTS FOR DEFECTS	1705.10	ASTM D4945 ASTM D5882 ASTM D6760 ASTM D7949	REFERENCE SPECIFICATIONS AND AS REQUIRED IN ACCORDANCE WITH ENGINEERING ASSESSMENT OF DEFECTS		FOR DEEP FOUNDATION ELEMENTS WHERE STRUCTURAL INTEGRITY IS A CONCERN. BY THE GEOTECHNICAL ENGINEER

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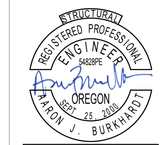

EXPIRES: 12/31/27

SPECIAL INSPECTIONS

S0.05

CONCRETE - SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		REMARKS
			CONTINUOUS	PERIODIC	
GENERAL	1705.3 1901.6	ACI 318: 26.13			SPECIAL INSPECTIONS OF CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 1705.3 OF THE IBC AND SECTION 26.13 OF ACI 318.
REINFORCING STEEL PLACEMENT	1901.5	ACI 318: CH. 20, 25.2, 25.3, 26.6.1-26.6.3, 26.13.3.3		X	REINFORCING TO COMPLY WITH ALL CODE PROTECTION, SPACING AND TOLERANCE LIMITS.
WELDING REINFORCING STEEL/SPLICING	TABLE 1705.2-6	AWS D1.4 ACI 318: 26.6.4			
VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706	1705.3.1 1705.3.2			X	
INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16" FILLET	1903.1			X	
OTHER REINFORCING STEEL	1903.2			X	
INSPECT ANCHORS/BOLTS CAST IN CONCRETE	-	ACI 318: 26.13.3.3(g)	X	X	ALL CAST-IN-PLACE ANCHORS/BOLTS SHALL BE VISUALLY INSPECTED. REFERENCE STEEL INSPECTIONS FOR ADDITIONAL INSTALLATION, MATERIAL AND WELDING INSPECTIONS OF STEEL ITEMS EMBEDDED IN CONCRETE (HEADED STUDS, DBA's, ETC.)
VERIFYING USE OF REQUIRED MIX DESIGN(S)	1904.1 1904.2 1908	ACI 318: CH. 19, 26.4.3, 26.4.4		X	
CONCRETE SPECIMENS FOR TESTING		ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	X		PRIOR TO CONCRETE PLACEMENT, FABRICATE CONCRETE SPECIMENS FOR TESTING. SEE THE CONCRETE TESTING TABLE FOR ADDITIONAL INFORMATION.
CONCRETE PLACEMENT, NON-SHRINK GROUT	1908	ACI 318: 26.5, 26.13.3.2(a)	X		
CONCRETE CURING	1908.1	ACI 318: 26.5.3 - 26.5.5, 26.13.3.3		X	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURES AND TECHNIQUES
VERIFICATION OF FORMWORK		ACI 318: 26.11.1.2(b), 26.13.3.3		X	SPECIAL INSPECTIONS APPLY TO SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED
REINFORCING STEEL MECHANICAL COUPLERS, TERMINATORS AND FORMSAVERS		ICC EVALUATION REPORTS		X	

CONCRETE - TESTING

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)	REMARKS
CONCRETE STRENGTH	1705.3 ASTM C172 ASTM C 31 ACI 318 26.12 ACI 318 26.5	ASTM C39	EACH 150 CY NOR LESS THAN EACH 5000 SF OF SLAB OR WALL PLACED EACH SHIFT	FABRICATE SPECIMENS AT TIME FRESH CONCRETE IS PLACED
CONCRETE SLUMP		ASTM C143		
CONCRETE AIR CONTENT		ASTM C231		
CONCRETE TEMPERATURE		ASTM C1064		

LIGHT GAUGE AND OTHER STEEL - SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		REMARKS
			CONTINUOUS	PERIODIC	
LIGHT GAUGE WELDING					
MATERIAL VERIFICATION OF WELD FILLER MATERIALS		AWS D1.3		X	MANUFACTURER'S CERTIFIED TEST REPORTS
VERIFYING USE OF PROPER WPS'S				X	RETAIN A RECORD OF WELDING PROCEDURE SPECIFICATIONS
VERIFYING WELDER QUALIFICATIONS				X	RETAIN A RECORD OF QUALIFICATION CARDS
COLD FORMED ROOF AND FLOOR DECKS - WELDING, MATERIALS TEST REPORTS AND CERTIFICATIONS	1705.2.2	SDI QA/QC, AWS D1.3		X	WELDING INSPECTION AND INSPECTOR QUALIFICATION
GENERAL					
IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	1705.2.2 1705.2.3 1705.2.4 TABLE 1705.2.3	APPLICABLE ASTM STANDARDS		X	MANUFACTURER'S CERTIFIED TEST REPORTS
COLD-FORMED STEEL LIGHT-FRAME CONSTRUCTION: REQUIRED SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE					
WELDING OF ELEMENTS OF THE SEISMIC FORCE RESISTING SYSTEMS	1705.13.3	AWS D1.3		X	ALL WELDS VISUALLY INSPECTED PER AWS D1.3 7.1
SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE SEISMIC-FORCE-RESISTING SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS	1705.13.3	AWS D1.3		X	EXCEPTION: NOT REQUIRED FOR SHEAR WALLS, BRACES, DIAPHRAGMS, DRAG STRUT AND HOLD-DOWNS. IF SHEATHING IS GYP OR FIBERBOARD OR IF SHEATHING IS WOOD STRUCTURAL PANEL/STEEL SHEET ONE SIDE ONLY AND FASTENER SPACING IS GREATER THAN 4" ON CENTER

WOOD - SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		REMARKS
			CONTINUOUS	PERIODIC	

WOOD - REQUIRED SEISMIC RESISTANCE INSPECTIONS

CONNECTIONS FOR DIAPHRAGM CHORDS, COLLECTORS, BRACING, AND SHEAR WALL ANCHORAGE AND HOLDOWNS	1705.13.2			X	ALL FASTENERS/CONNECTIONS VISUALLY INSPECTED
FASTENING OF DIAPHRAGM AND SHEAR WALL SHEATHING WITH EDGE NAILING EQUAL TO OR LESS THAN 4"	1705.13.2			X	FOR WOOD SHEAR WALLS, SHEAR PANELS, AND DIAPHRAGMS. THIS INCLUDES NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER COMPONENTS IN THE SEISMIC FORCE RESISTING SYSTEM

STEEL - SPECIAL INSPECTIONS

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	INSPECTION (NOTES 5 AND 6)		REMARKS
			CONTINUOUS/ PERFORM	PERIODIC/ OBSERVE	
STEEL FABRICATION					
FABRICATION OF STRUCTURAL ELEMENTS	1704.2.5.1	AISC 360		X	REFER TO INSPECTION OF FABRICATOR REQUIREMENTS
MATERIAL VERIFICATION OF STRUCTURAL STEEL COMPONENTS	1705.2.1 TABLE 1705.2-3	ASTM A6 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS AISC 360 A3.1 AISC 360 N2.1 AISC 360 N3.2		X	CERTIFIED MILL TEST REPORTS IDENTIFICATION MARKINGS TO CONFORM TO AISC 360 AND ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS
MATERIAL VERIFICATION OF HIGH STRENGTH BOLTS, NUTS, AND WASHERS	1705.2.1.1 AISC 360 N5 TABLE 1705.2-1	AISC 360 A3.3 AISC 360 N3.2 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS RCSC 2.1		X	MANUFACTURER'S CERTIFIED TEST REPORTS IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS AND SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS MANUFACTURER'S CERTIFICATE OF COMPLIANCE
MATERIAL VERIFICATION OF ANCHOR BOLTS AND THREADED RODS		AISC 360 A3.4 AISC 360 N3.2 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS		X	MANUFACTURER'S CERTIFIED TEST REPORTS
MATERIAL VERIFICATION OF WELD FILLER METALS	1705.2.1.1 TABLE 1705.2-5	AISC 360 A3.5 AISC 360 N3.2 APPLICABLE AWS A5 DOCUMENTS		X	MANUFACTURER'S CERTIFICATE OF COMPLIANCE IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPORVED CONSTRUCTION DOCUMENTS
STRUCTURAL STEEL WELDING					
VERIFYING USE OF PROPER WPS'S	1705.2.1 AWS D1.1	AISC 360 N3.2			RETAIN A RECORD OF WELDING PROCEDURE SPECIFICATIONS
VERIFYING WELDER QUALIFICATIONS		AWS D1.1		X	RETAIN A RECORD OF QUALIFICATION CARDS
COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS	TABLE 1705.2-6	AWS D1.1 CLAUSE 6	X		
MULTIPASS FILLET WELDS			X		
SINGLE PASS FILLET WELDS GREATER THAN 5/16"			X		ALL WELDS VISUALLY INSPECTED PER AWS D1.16.9
PLUG AND SLOT WELDS			X		
SINGLE PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"				X	
WELDING RAILING SYSTEMS	1705.2(2.5)	AWS D1.1 CLAUSE 6		X	BASE WELDS OF THE CANTILEVERED RAIL POSTS REQUIRE VISUAL INSPECTION PER AWS D1.1 6.9
VERIFICATION OF JOINT & APPLICATION OF CONNECTION DETAILS INCLUDING MEMBER AND COMPONENT LOCATIONS, BRACING, AND STIFFENERS	TABLE 1705.2-7	AWS D1.1		X	
SNUG-TIGHT BOLT INSTALLATION	1705.2.1 TABLE 1705.2 AISC 360 M2.5 AISC 360 N5.6	RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS SECTION 9 AISC 360 SECTION M2.5		X	ALL CONNECTIONS VISUALLY INSPECTED AND VERIFIED SNUG
PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-THE-NUT METHOD WITH MATCHMARKING, DIRECT TENSION INDICATOR METHOD, OR TWIST-OFF TYPE TENSION CONTROL BOLT METHOD				X	ALL CONNECTIONS VISUALLY INSPECTED. CONNECTIONS USING DIRECT TENSION INDICATORS, ALL BOLTS SHALL BE INSPECTED AFTER SNUGGING AND AFTER PRETENSIONING
PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-THE-NUT METHOD WITHOUT MATCHMARKING OR CALIBRATED WRENCH METHOD			X		ALL CONNECTIONS VISUALLY INSPECTED
INSPECTION TASKS PRIOR TO BOLTING					
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS				X	
CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH, IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)				X	
CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL				X	
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS				X	
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED				X	
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS				X	
INSPECTION TASKS DURING BOLTING					
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE 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	

STEEL - TESTING

SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)	REMARKS
STEEL				
ULTRASONIC (UT) TESTING OF WELDS	1705.2.1	AWS D1.1 6.13 & 6.14.3	PER AISC 360 N5.5	ALL C.J.P. WELDS IN MATERIAL 5/16" AND THICKER REQUIRE UT TESTING.
MAGNETIC PARTICLE (MT) TESTING OF WELDS	1705.2.1	AWS D1.1 6.14.4		REQUIRED AT THERMALLY CUT ACCESS HOLES WHERE FLANGE THICKNESS EXCEEDS 2" FOR ROLLED SHAPES OR WHEN THE WEB THICKNESS EXCEEDS 2" FOR BUILT-UP SHAPES. REQUIRED WHERE SPECIFICALLY NOTED ON DRAWINGS

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SPECIAL INSPECTIONS

S0.06

WALL FOOTING SCHEDULE

MARK	SIZE		LONGITUDINAL REINFORCING	TRANSVERSE REINFORCING
	WIDTH	"T"		
W-1	2' - 0"	1' - 0"	(3) #5	#5 @ 12" o.c.
W-2	3' - 0"	1' - 0"	(4) #5 BOT.	#5 @ 12" o.c.
W-3	4' - 0"	1' - 0"	(5) #6 BOT.	#5 @ 12" o.c.

SPREAD FOOTING SCHEDULE

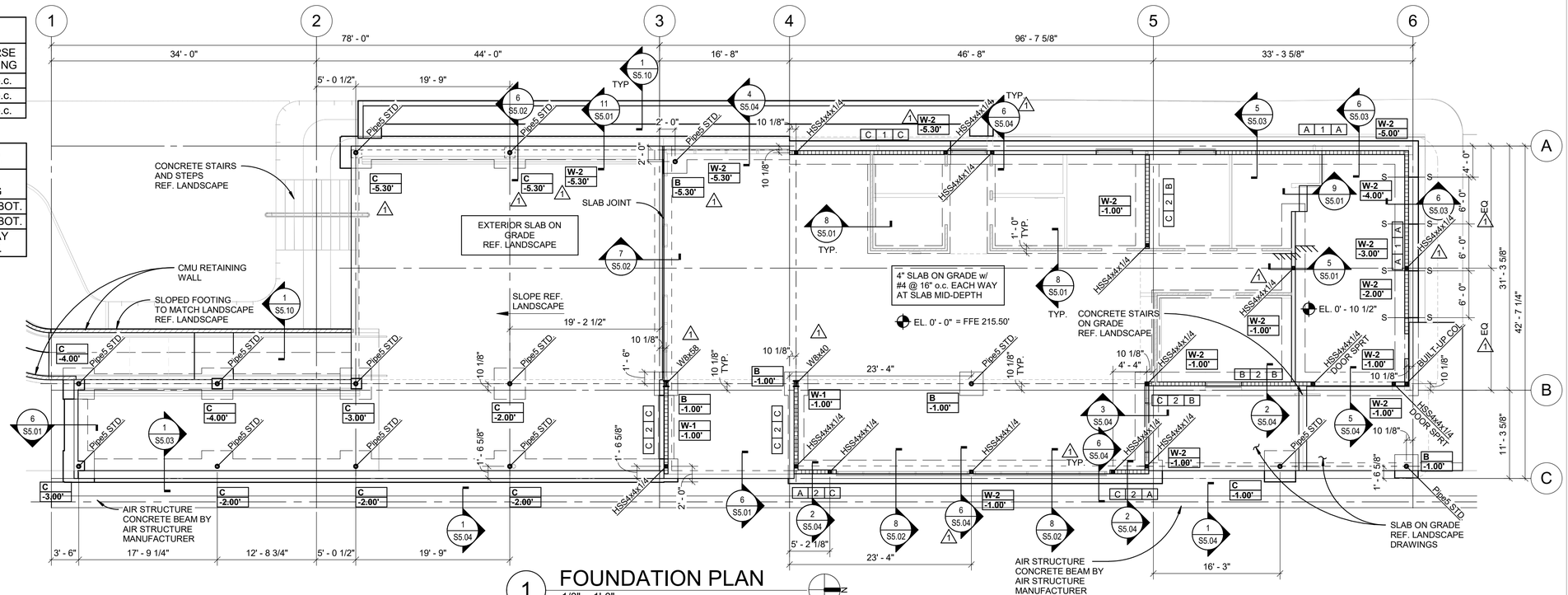
MARK	SIZE		"T"	REINFORCING
	"A"	"B"		
A	2' - 0"	2' - 0"	1' - 0"	(3) #5 EACH WAY BOT.
B	3' - 0"	3' - 0"	1' - 0"	(4) #5 EACH WAY BOT.
C	4' - 0"	4' - 0"	1' - 0"	(5) #5 EACH WAY TOP AND BOT. 1

PLAN NOTES:

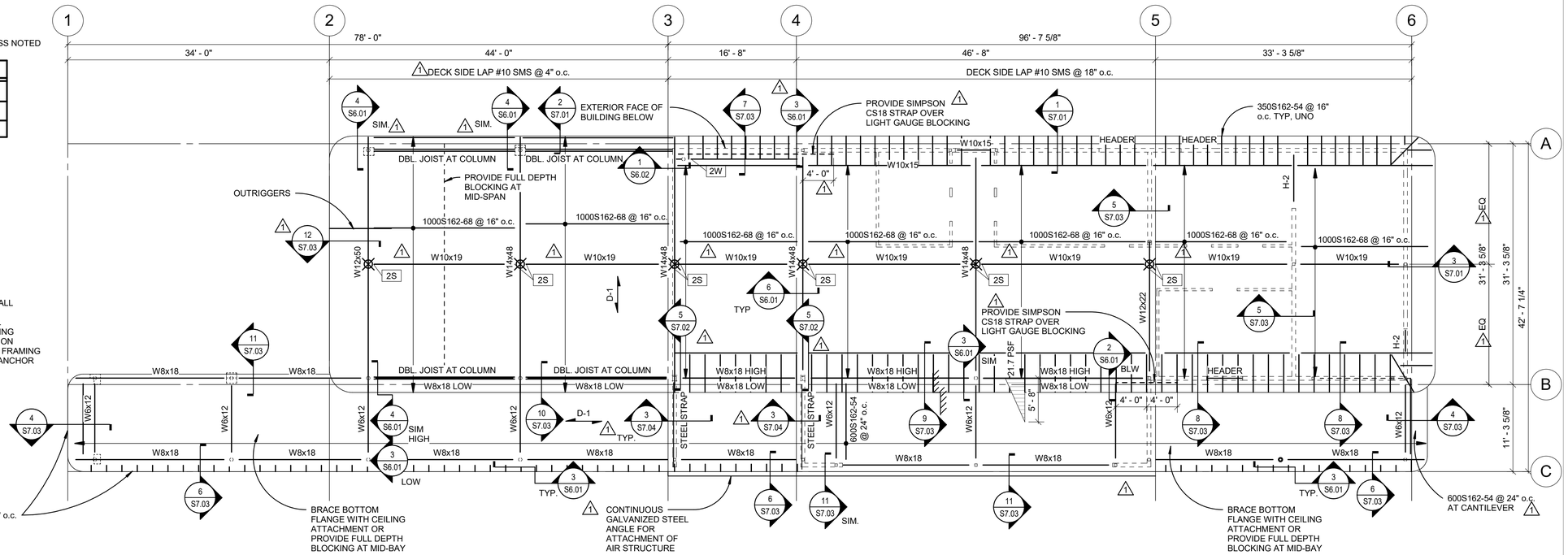
1. X / -XX.XX' — INDICATES FOOTING TYPE. REF. SCHEDULE. INDICATES TOP OF FOOTING ELEVATION.
2. EL. XXX'-XX" — INDICATES TOP OF STRUCTURAL SLAB ELEVATION. REF. ARCHITECTURAL SLAB DIMENSION PLANS FOR TOP OF OVERFRAMING SLABS.
3. INDICATES STEP IN ELEVATION. REF. 5/S5.01
4. X # X — INDICATES A 600S162-54 @ 16" o.c. (U.N.O) SUREBOARD SHEATHED SHEARWALL OF TYPE (#), AND HOLDOWN (X) TO BE PROVIDED IN SCHEDULE.
5. D - 1 — INDICATES SPAN DIRECTION OF 20 GA. 9/16" SHALLOW VERCO DECK w/ #10 SMS NAILS AT 6" o.c. AT DECK EDGES AND 12" o.c. AT INTERMEDIATE SUPPORTS. 1
6. HEADER — INDICATES A LIGHT GAUGE FRAMED BOXED BEAM HEADER IN THE STUD WALL ABOVE THE OPENING BELOW. REF 7 AND 8/S7.01.
7. INDICATES A 600S162-43 @ 16" o.c. (U.N.O.) LIGHT GAUGE BEARING WALL. PROVIDE GYP SHEATHING PER ARCHITECTURAL DRAWINGS.
8. S ——— S — INDICATES STEPPED FOOTING REF. 4/S5.02
9. REF. S6.01 FOR TYPICAL STEEL DETAILS.
10. BEAMS ARE CENTERED ON COLUMNS, WALLS AND/OR GRID LINES, U.N.O.
11. X — INDICATES CONNECTION TYPE. REF. 2/S6.01 FOR SCHEDULES AND CONNECTION DETAILS.
12. PROVIDE THE FOLLOWING CONNECTION TYPES UNLESS NOTED OTHERWISE ON THE PLANS:

BEAM DESIGNATION	CONNECTION TYPE
W6	2D
W8, W10	2
W12, W14	3

13. <X"> — INDICATES UPWARD CAMBER AT MID SPAN.
14. EL. XXX'-XX" — INDICATES BOTTOM OF DECK ELEVATION.
15. INDICATES MOMENT CONNECTION.
16. (A) — INDICATES ABOVE.
17. (B) — INDICATES BELOW
18. X PSF / Y'-Y" — INDICATES SNOW DRIFT LOAD OF WIDTH Y' AND MAGNITUDE X PSF
19. INDICATES FALL PROTECTION ANCHOR. ANCHORS SHALL BE DESIGNED, FURNISHED, AND INSTALLED BY THE ANCHOR SUPPLIER. FINAL ANCHOR LOCATIONS SHALL BE VERIFIED BY THE ANCHOR PROVIDER. ROOF FRAMING SHOWN IS SCHEMATIC AND MAY REQUIRE MODIFICATION TO ACCOMMODATE FINAL ANCHOR LOCATIONS. FINAL FRAMING CONFIGURATION SHALL BE COORDINATED WITH THE ANCHOR PROVIDER AND CONTRACTOR.



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



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

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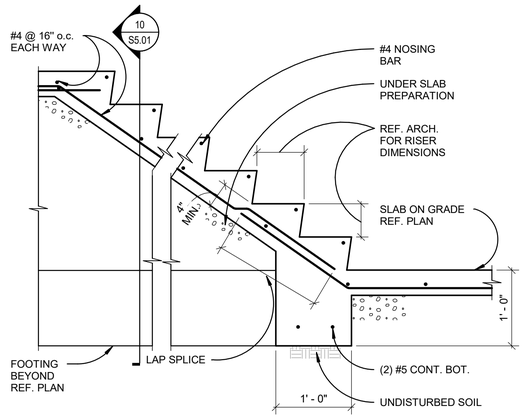
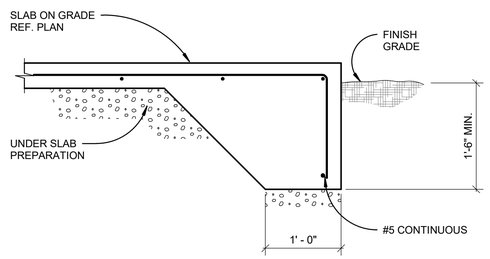
OREGON
DEC. 25, 2009
AARON J. BURKHARDT
EXPIRES 12/31/27

FOUNDATION AND ROOF FRAMING PLANS

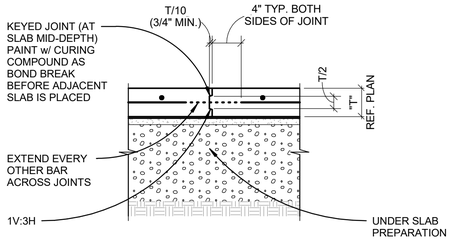
S1.00



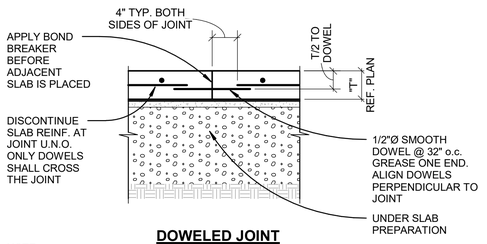
9 TYP. STAIR ON GRADE
1" = 1'-0"



6 TYP. THICKENED SLAB ON GRADE EDGE DETAIL
1" = 1'-0"



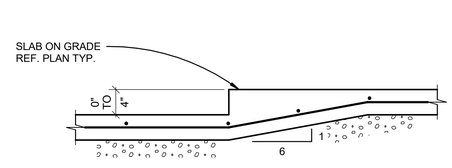
KEYED JOINT



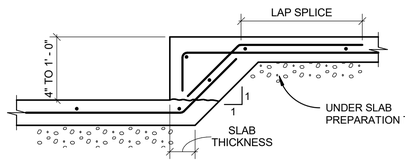
DOWELED JOINT

NOTE:
REF. 2/S5.01 FOR ADDITIONAL INFORMATION.

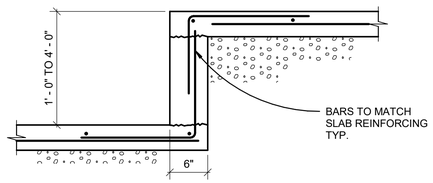
4 TYP. CONSTRUCTION JOINTS AT SLAB ON GRADE
1" = 1'-0"



STEP 0" TO 4"

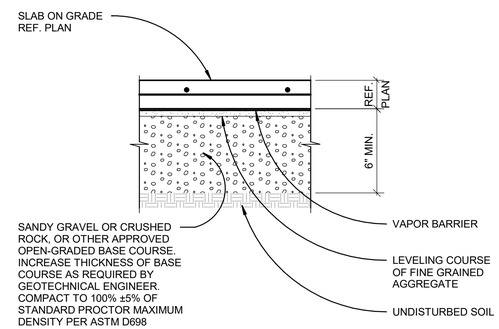


STEP 4" TO 1'-0"



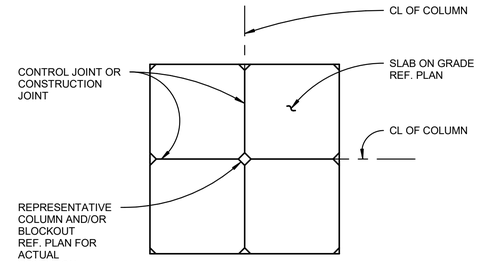
STEP 1'-0" TO 4'-0"

5 TYP. STEP IN SLAB ON GRADE
1" = 1'-0"



NOTE:
REF. 2/S5.01 FOR ADDITIONAL INFORMATION.

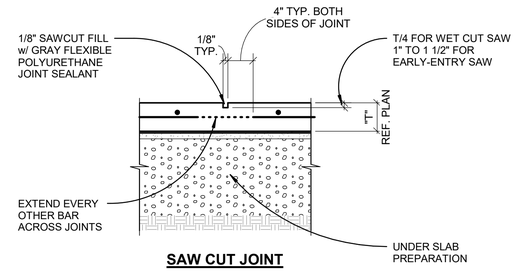
1 TYP. UNDER SLAB PREPARATION AT SLAB ON GRADE
1" = 1'-0"



NOTES:

1. REF. PLAN FOR SLAB ON GRADE THICKNESS AND REINFORCEMENT.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING JOINT LAYOUT FOR REVIEW AND APPROVAL BY ARCHITECT AND STRUCTURAL ENGINEER.
3. REF. ARCHITECTURAL DRAWINGS FOR SPECIFIC JOINT LAYOUT WITH JOINT SPACING NOT TO EXCEED 24x THE SLAB THICKNESS EACH WAY.
4. SAWED JOINTS SHALL BE MADE AS SOON AS THE JOINT CAN BE CUT WITHOUT EDGES RAVELING AND WITHIN 12 HOURS OF SLAB PLACEMENT.

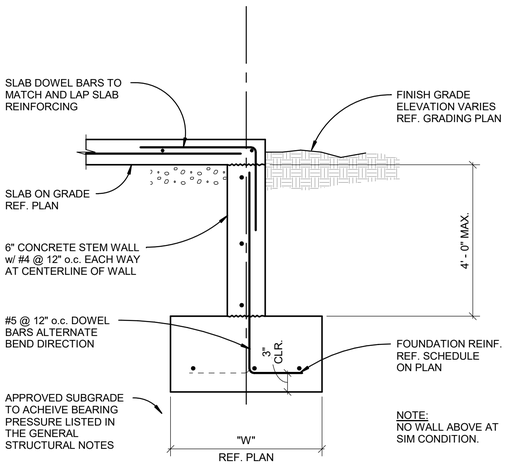
2 TYP. JOINTS AT SLAB ON GRADE
1" = 1'-0"



SAW CUT JOINT

NOTE:
REF. 2/S5.01 FOR ADDITIONAL INFORMATION.

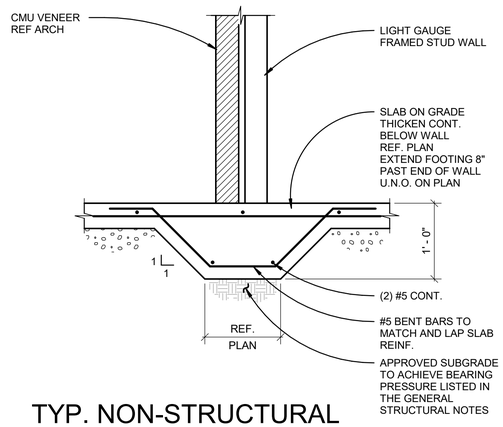
3 TYP. CONTROL JOINTS IN SLAB ON GRADE
1" = 1'-0"



10 TYP. STEM WALL FOR STAIR ON GRADE
1" = 1'-0"

7 NOT USED
1" = 1'-0"

11 TYPICAL STEM WALL DETAIL
1" = 1'-0"



8 TYP. NON-STRUCTURAL VENEER WALL FOUNDATION
1" = 1'-0"

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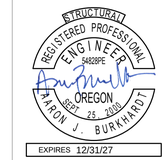
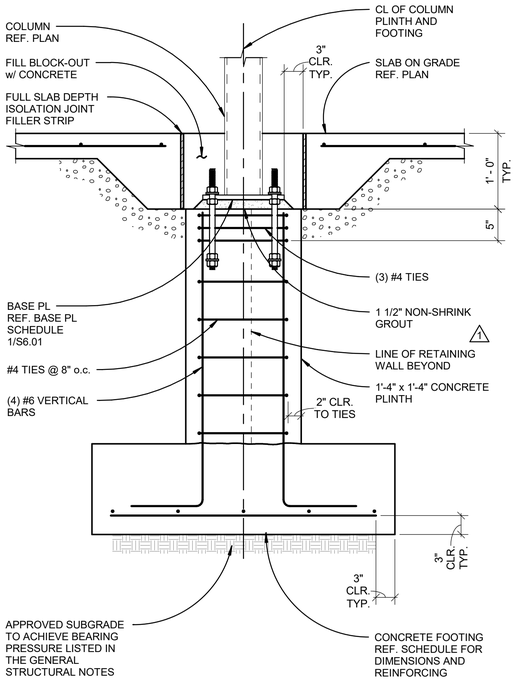
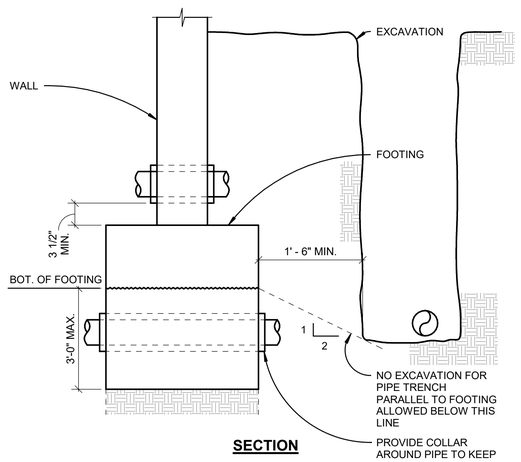


CONCRETE DETAILS

S5.01





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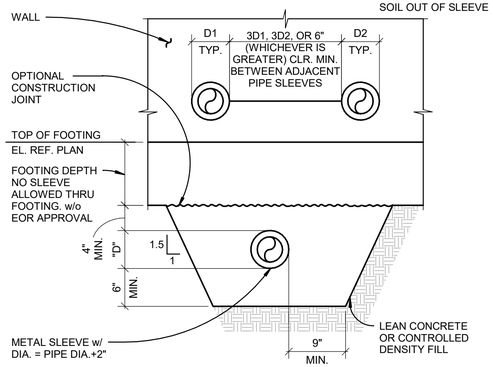
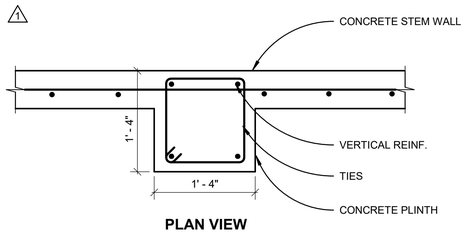


ELEVATION

NOTES:

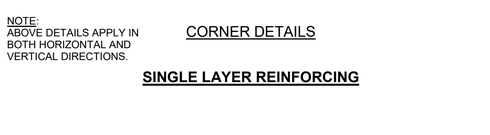
1. STEP FOOTING PER TYP. STEPPED FOOTING DETAIL 4/S5.02 AS REQUIRED TO SATISFY THESE CONDITIONS.
2. GENERAL CONTRACTOR TO COORDINATE EXACT DEPTH AND LOCATION OF PIPE.
3. "D" SHALL NOT EXCEED 8".
4. PROVIDE WALL REINF. AROUND PENETRATION PER GENERAL STRUCTURAL NOTES.

5 TYP. PIPE PENETRATIONS AND TRENCHES AT FOOTINGS
1" = 1'-0"

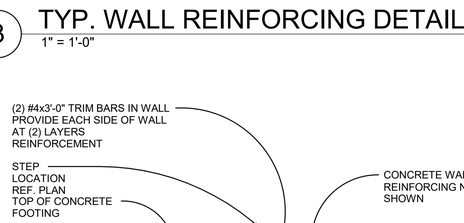


PLAN VIEW

6 TYP. PLINTH AND FOOTING DETAIL
1" = 1'-0"



BARS IN SMALL SECTION

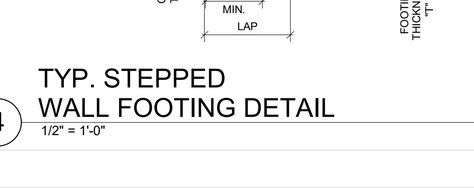


CORNER DETAILS

NOTE:
ABOVE DETAILS APPLY IN BOTH HORIZONTAL AND VERTICAL DIRECTIONS.

DOUBLE LAYER REINFORCING

BARS IN SMALL SECTION

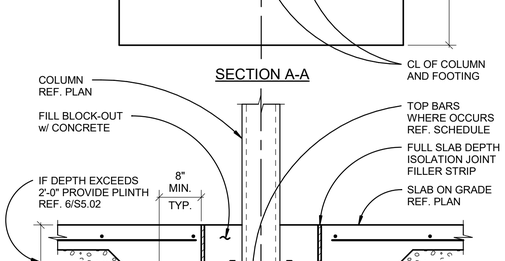


NOTE:
ABOVE DETAILS APPLY IN BOTH HORIZONTAL AND VERTICAL DIRECTIONS.

CORNER DETAILS

SINGLE LAYER REINFORCING

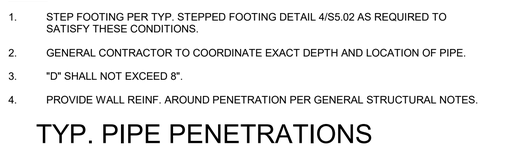
3 TYP. WALL REINFORCING DETAILS
1" = 1'-0"



1 SLAB ON GRADE AT SLOPE
1" = 1'-0"

PLAN VIEW

6 TYP. PLINTH AND FOOTING DETAIL
1" = 1'-0"



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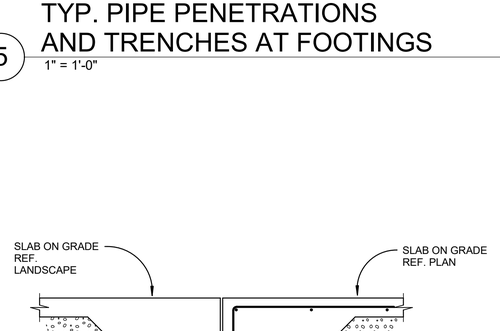


ELEVATION

NOTES:

1. STEP FOOTING PER TYP. STEPPED FOOTING DETAIL 4/S5.02 AS REQUIRED TO SATISFY THESE CONDITIONS.
2. GENERAL CONTRACTOR TO COORDINATE EXACT DEPTH AND LOCATION OF PIPE.
3. "D" SHALL NOT EXCEED 8".
4. PROVIDE WALL REINF. AROUND PENETRATION PER GENERAL STRUCTURAL NOTES.

5 TYP. PIPE PENETRATIONS AND TRENCHES AT FOOTINGS
1" = 1'-0"

BARS IN SMALL SECTION

CORNER DETAILS

NOTE:
ABOVE DETAILS APPLY IN BOTH HORIZONTAL AND VERTICAL DIRECTIONS.

DOUBLE LAYER REINFORCING

BARS IN SMALL SECTION

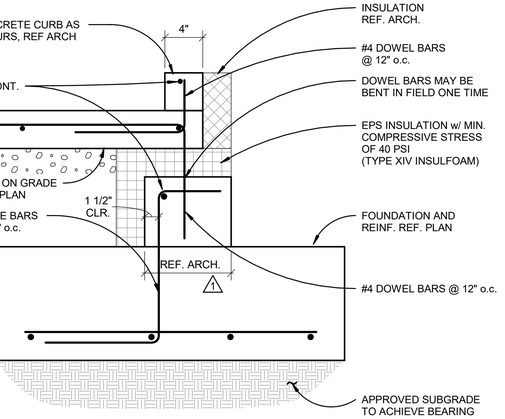
NOTE:
ABOVE DETAILS APPLY IN BOTH HORIZONTAL AND VERTICAL DIRECTIONS.

CORNER DETAILS

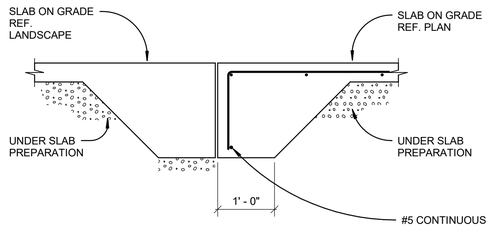
SINGLE LAYER REINFORCING

3 TYP. WALL REINFORCING DETAILS
1" = 1'-0"

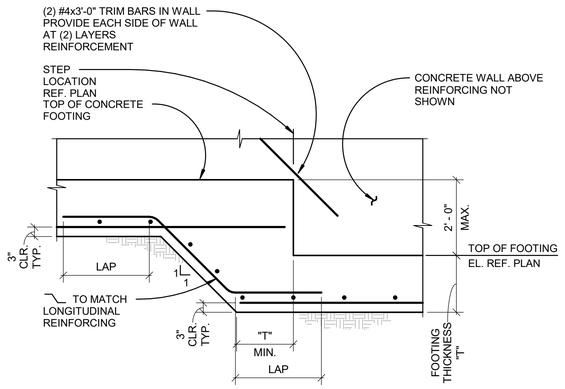
1 SLAB ON GRADE AT SLOPE
1" = 1'-0"



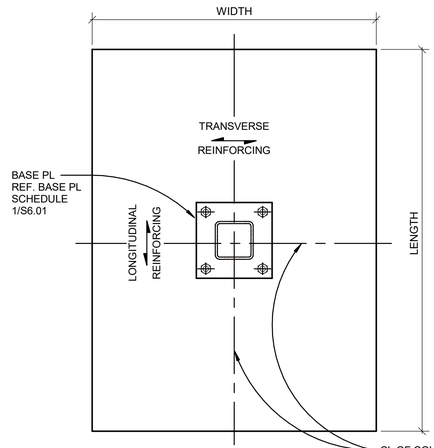
8 WALL FOUNDATION
1 1/2" = 1'-0"



7 SLAB ON GRADE TRANSITION
3/4" = 1'-0"



4 TYP. STEPPED WALL FOOTING DETAIL
1/2" = 1'-0"



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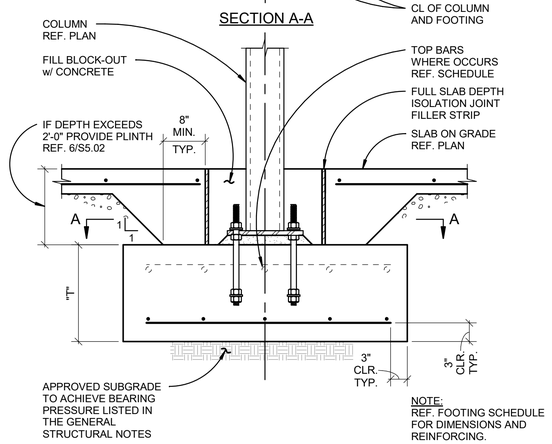

NOTE:
REF. FOOTING SCHEDULE FOR DIMENSIONS AND REINFORCING.

2 TYP. FOOTING AT STEEL COLUMN
1" = 1'-0"

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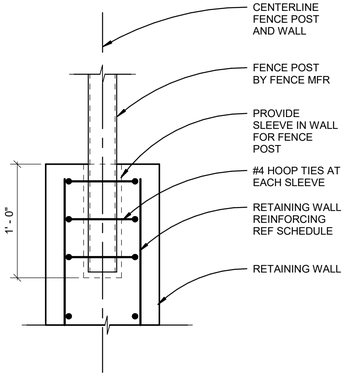
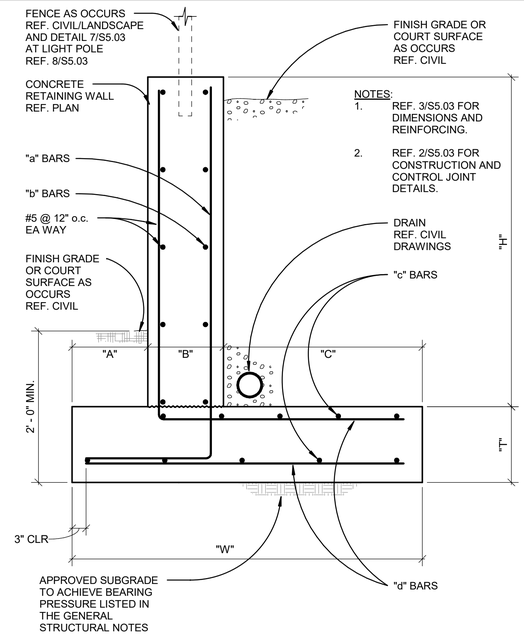
CONCRETE DETAILS

S5.02



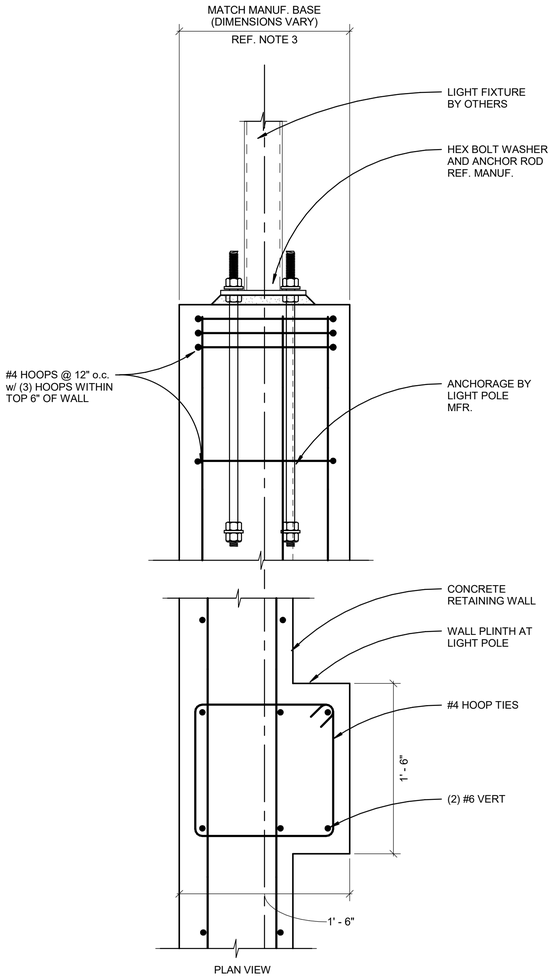
CANTILEVERED RETAINING WALL SCHEDULE

MAX. "H"	"W"	"T"	"A"	"B"	"C"	a	b	c	d	REMARKS
4'-0"	3'-10"	1'-0"	0'-6"	12"	2'-4"	#5 @ 12" o.c.	#5 @ 12" o.c.	#5 @ 12" o.c.	#5 @ 12" o.c.	
6'-8"	5'-8"	1'-0"	1'-0"	12"	3'-8"	#5 @ 12" o.c.	#5 @ 12" o.c.	#5 @ 12" o.c.	#5 @ 12" o.c.	
9'-0"	8'-0"	1'-6"	1'-0"	12"	6'-0"	#6 @ 10" o.c.	#5 @ 12" o.c.	#7 @ 10" o.c.	#6 @ 12" o.c.	



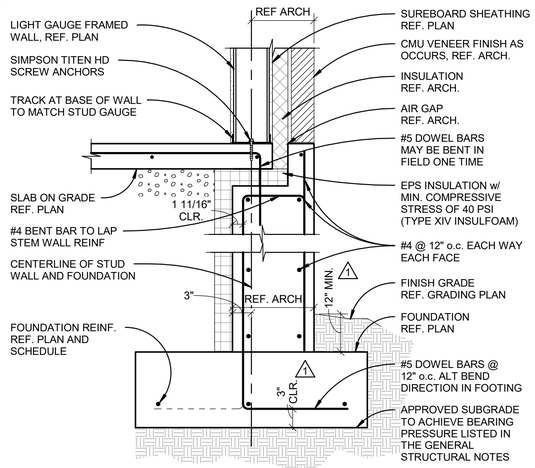
1 CANTILEVERED RETAINING WALL DETAIL
N.T.S.

7 FENCE AT TOP OF WALL
1 1/2" = 1'-0"

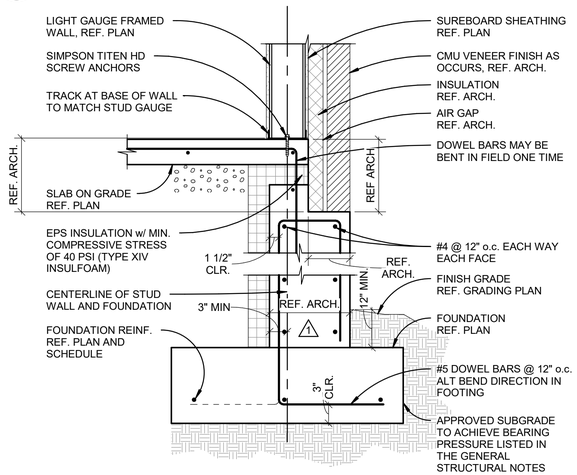


8 LIGHT POLE AT TOP OF WALL
1 1/2" = 1'-0"

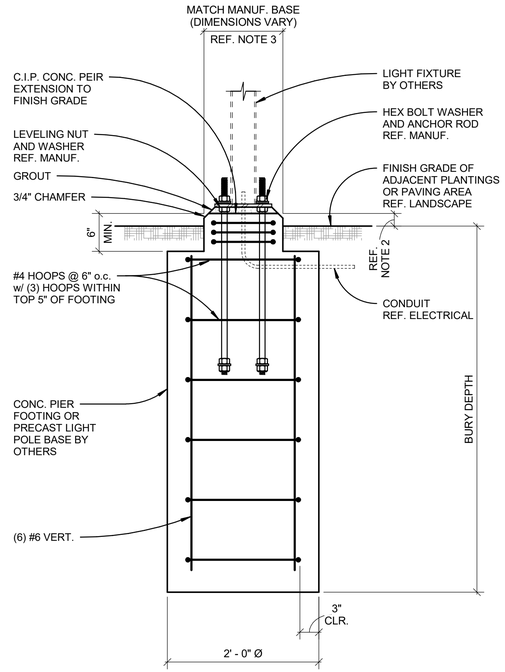
3 CANTILEVERED RETAINING WALL SCHEDULE
1" = 1'-0"



5 WALL FOOTING AT DROPPED FDN.
1" = 1'-0"



6 WALL FOOTING AT DROPPED FDN.
1" = 1'-0"

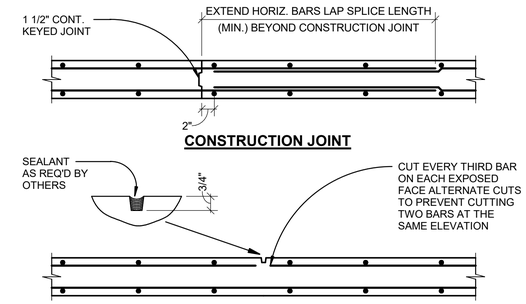


MAX HEIGHT	BURY DEPTH
16'-0"	5'-0"
25'-0"	7'-0"

NOTES:

1. THE CONC. PIER EXTENSIONS SHALL PRECISELY MATCH THE SIZE AND CONFIGURATION OF EACH HIGH POLE BASE OR COVER.
2. THE CONC. PIER EXTENSIONS SHALL MEET AND MATCH ADJACENT FINISH GRADES AS INDICATED.
3. LIGHT POLE BASES / BASE COVERS MAY BE EITHER CIRCULAR OR SQUARE IN CONFIGUATION. MATCH EACH MANUF. SPECIFICATIONS.

4 TYPICAL LIGHT POLE FOOTING
1" = 1'-0"



NOTES:

1. DO NOT SPLICE HORIZ. REINFORCEMENT WITHIN 4'-0" OF JOINT.
2. VERTICAL CONTROL JOINT SPACING NOT TO EXCEED THE WALL HEIGHT AT WALLS TALLER THAN 12'-0" OR 3x WALL HEIGHT AT SHORT WALLS LESS THAN 8'-0", OR 25'-0" o.c. MAXIMUM. ALIGN JOINTS WITH EDGES OF OPENINGS AND WITHIN 15'-0" OF WALL CORNERS.
3. ALIGN CONTROL JOINTS WITH WEEP HOLES.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING JOINT LAYOUT FOR REVIEW AND APPROVAL BY ARCHITECT AND STRUCTURAL ENGINEER.

2 TYP. EXPOSED BASEMENT AND RETAINING WALL JOINT DETAILS
1" = 1'-0"

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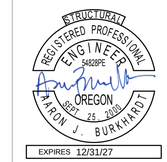
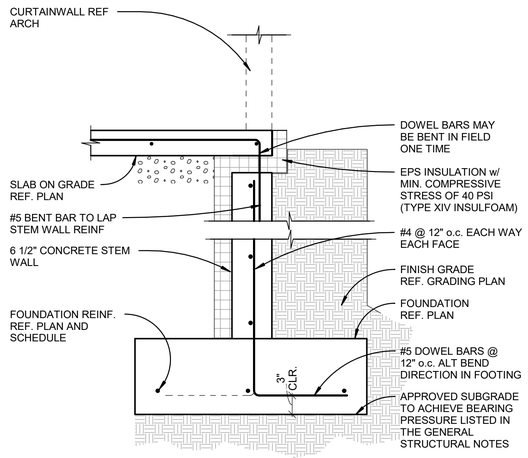


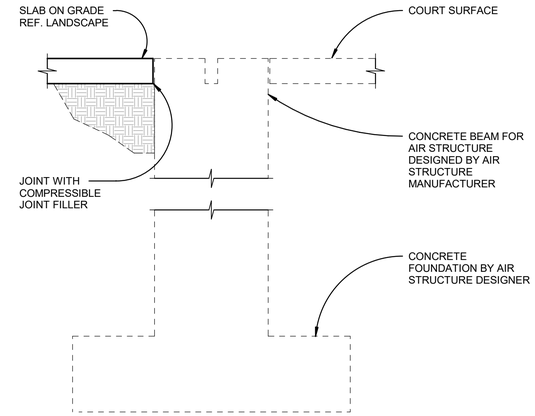
CONCRETE DETAILS

S5.03



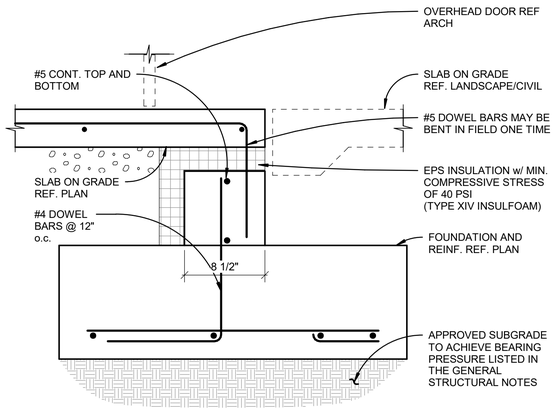
4 SLAB AT CURTAINWALL

1" = 1'-0"



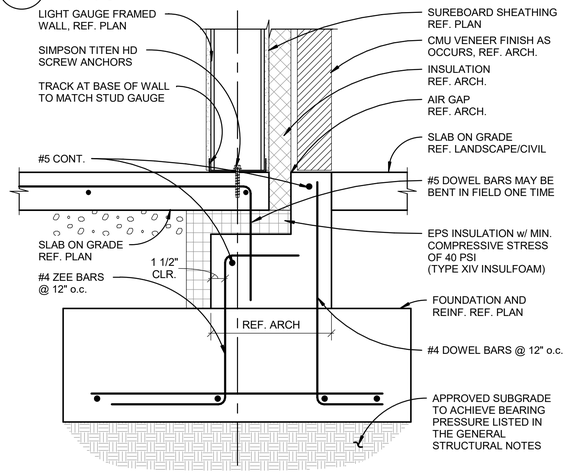
1 AIR STRUCTURE FOUNDATION

1" = 1'-0"



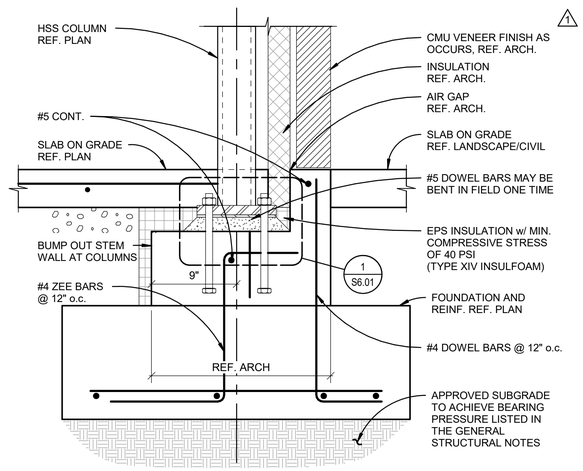
5 SLAB EDGE TO FOUNDATION

1 1/2" = 1'-0"



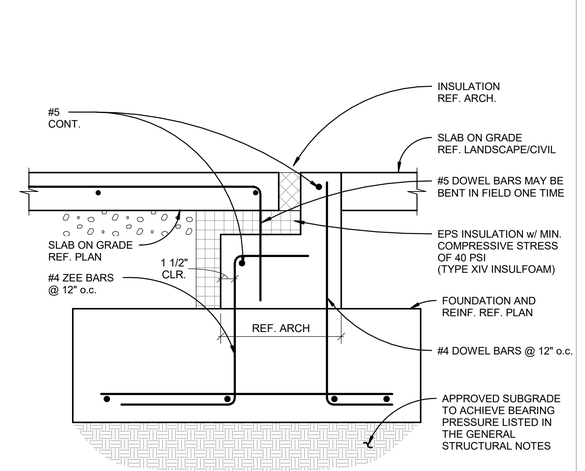
2 SLAB EDGE TO FOUNDATION

1 1/2" = 1'-0"



6 HSS COLUMN AT PERIMETER FOOTING

1 1/2" = 1'-0"



3 WALL FOUNDATION

1 1/2" = 1'-0"

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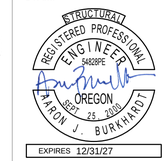
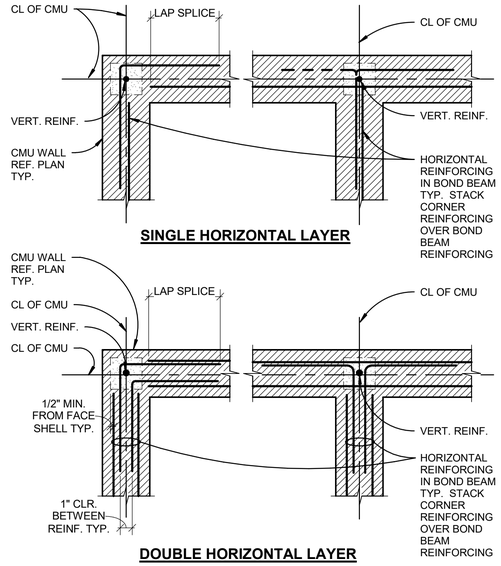


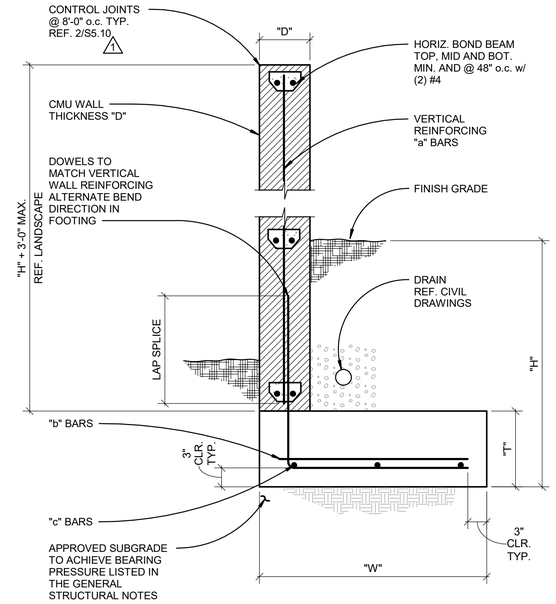
CONCRETE DETAILS

S5.04



3 TYP. CMU WALL CORNER PLAN DETAILS

1" = 1'-0"

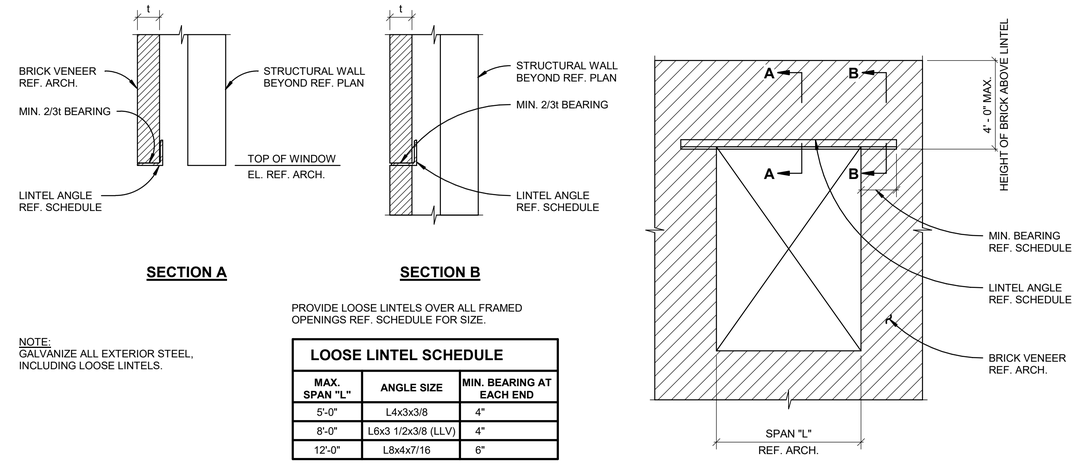


CMU RETAINING WALL SCHEDULE

"H" (FT.)	"W" (FT.)	"T" (FT.)	"D" (IN.)	REINFORCING		
				"a" BARS	"b" BARS	"c" BARS
2'-6"	2'-4"	1'-0"	8"	#5 @ 24" o.c.	#5 @ 12" o.c.	#5 @ 10" o.c.
4'-0"	3'-8"	1'-0"	8"	#5 @ 24" o.c.	#5 @ 12" o.c.	#5 @ 10" o.c.
6'-0"	5'-2"	1'-0"	8"	#6 @ 24" o.c.	#5 @ 12" o.c.	#5 @ 10" o.c.

1 CMU RETAINING WALL DETAIL

1" = 1'-0"



NOTE:
GALVANIZE ALL EXTERIOR STEEL, INCLUDING LOOSE LINTELS.

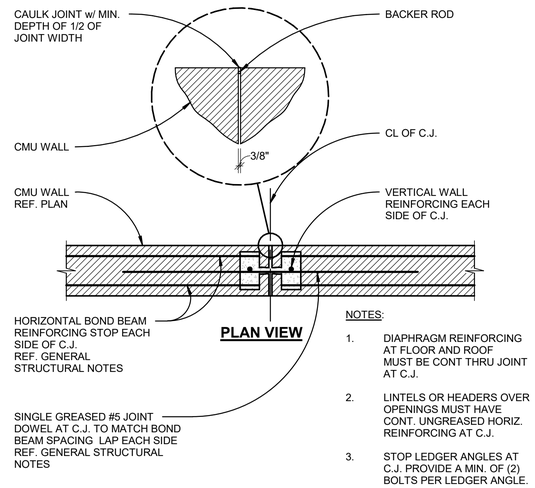
PROVIDE LOOSE LINTELS OVER ALL FRAMED OPENINGS REF. SCHEDULE FOR SIZE.

LOOSE LINTEL SCHEDULE

MAX. SPAN "L"	ANGLE SIZE	MIN. BEARING AT EACH END
5'-0"	L4x3x3/8	4"
8'-0"	L6x3 1/2x3/8 (LLV)	4"
12'-0"	L8x4x7/16	6"

4 LOOSE LINTEL ANGLE DETAILS

1" = 1'-0"



NOTES:

1. DIAPHRAGM REINFORCING AT FLOOR AND ROOF MUST BE CONT THRU JOINT AT C.J.
2. LINTELS OR HEADERS OVER OPENINGS MUST HAVE CONT. UNGREASED HORIZ. REINFORCING AT C.J.
3. STOP LEDGER ANGLES AT C.J. PROVIDE A MIN. OF (2) BOLTS PER LEDGER ANGLE.

2 TYP. CONTROL JOINT DETAIL

1" = 1'-0"

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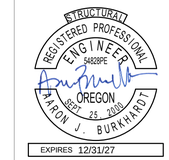
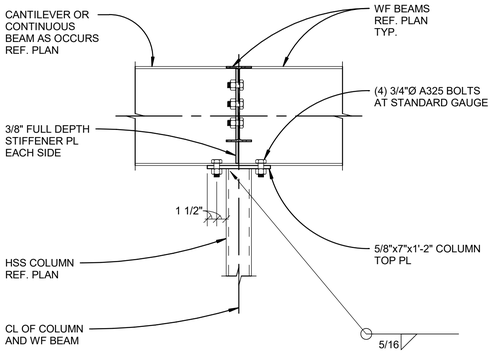
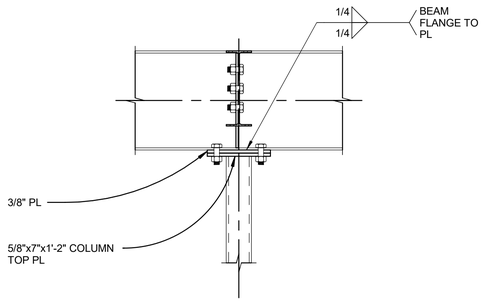


MASONRY DETAILS

S5.10



BEAM FLANGE
bf ≥ 5 1/2"

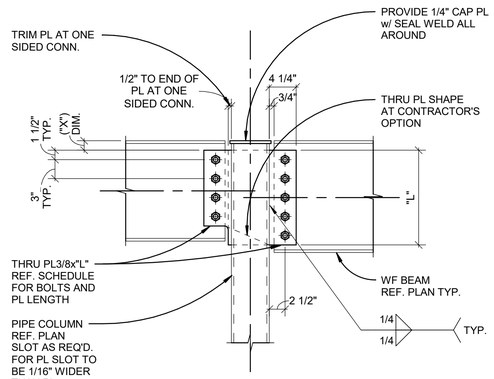


BEAM FLANGE
bf < 5 1/2"

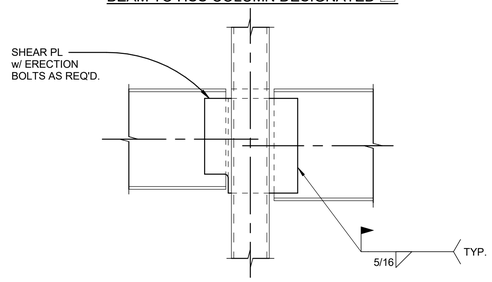
NOTES:

1. FOR STIFFENER PL INFORMATION REF. 2/S6.01.
2. FOR INFORMATION NOT SHOWN ON BEAM FLANGE < 5 1/2" REF. CONDITION BEAM FLANGE > 5 1/2".

5 TYP. BEAM OVER COLUMN DETAIL
1" = 1'-0"



BEAM TO HSS COLUMN DESIGNATED XS



WELDED BEAM TO HSS COLUMN SHEAR PL - DESIGNATED XW

NOTES:

1. FOR INFORMATION NOT SHOWN XW REF. CONDITION XS.
2. FOR PL LENGTH ("L") AND BOLTS REF. SCHEDULE 2/S6.01.
3. FOR ("X") DIMENSION REF. DETAIL 2/S6.01. 1
4. PERPENDICULAR BEAMS NOT SHOWN FOR CLARITY.

3 BOLTED THRU PL AT WF BEAM TO HSS COLUMN
1" = 1'-0"

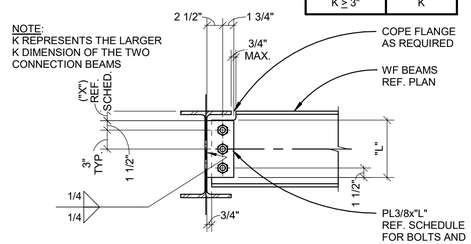
SINGLE ROW BEARING BOLTED BEAM CONNECTION SCHEDULE

CONNECTION TYPE	NO. OF 3/4"Ø A325 BOLTS	PL LENGTH "L"	HOLE SIZE
2D	2	REFERENCE DETAIL 2/S6.02	STANDARD HOLE
2 2F	2	6"	STANDARD HOLE
3 3F	3	9"	STANDARD HOLE
4 4F	4	12"	STANDARD HOLE

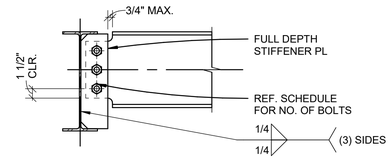
NOTES:

1. X — INDICATES BEARING TYPE CONNECTION WITH THREADS INCLUDED IN SHEAR PLANE (A325N).
2. XF — INDICATES SLIP CRITICAL CONNECTION (A325SC).

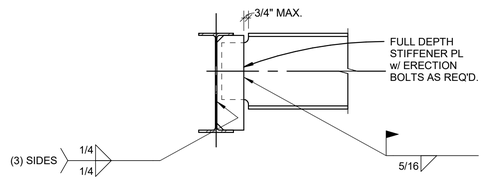
K	"X"
K ≤ 1 1/2"	1 1/2"
1 1/2" < K ≤ 2"	2"
2" < K ≤ 3"	3"
K ≥ 3"	K



TYP. BEAM TO BEAM DESIGNATED X



FULL DEPTH SHEAR PL DESIGNATED XS

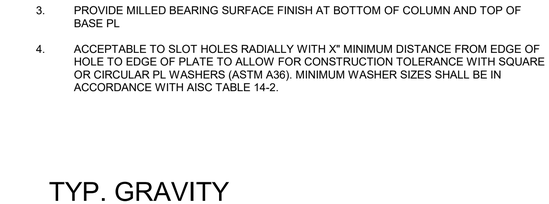


FULL DEPTH WELDED SHEAR PL DESIGNATED XW

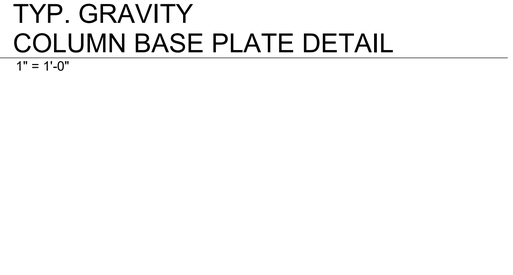
NOTES:

1. REF SCHEDULE ON PLAN FOR BEAM CONNECTIONS.
2. FOR INFORMATION NOT SHOWN ON XS AND XW REFERENCE CONDITION X .

2 TYP. BOLTED BEAM TO BEAM CONNECTION
1" = 1'-0"



SECTION A-A



HSS COLUMN

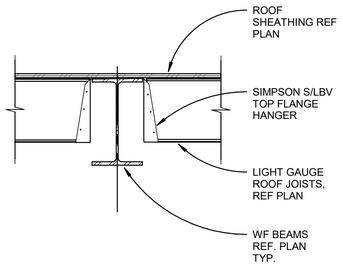
TYP. GRAVITY COLUMN BASE PL SCHEDULE

COLUMN SIZE	N (IN.)	B (IN.)	T (IN.)	X (IN.)	L (IN.)	ANCHOR RODS (NO.) DIAMETER
HSS 4x4	10	10	3/4	1 1/2	9	(4) 3/4" DIA.
PIPE 5" DIA	12	12	3/4	1 1/2	9	(4) 3/4" DIA.

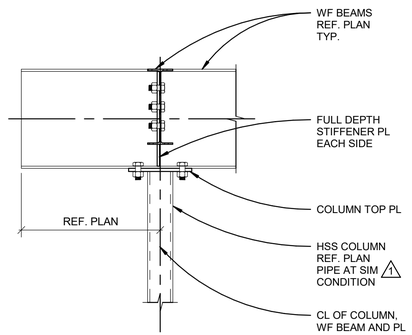
NOTES:

1. ANCHOR RODS SHALL BE HEADED ASTM F1554 GRADE 36 U.N.O. THREADED ROD MAY BE USED AT CONTRACTOR'S OPTION PROVIDED THAT NUT IS TACK WELDED TO ROD.
2. ANCHOR ROD HOLE DIAMETERS (dh) SHALL BE AS FOLLOWS:
   db ≤ 1" : dh = db + 5/16"
   1" < db ≤ 2" : dh = db + 1/2"
   db > 2" : dh = db + 1"
3. PROVIDE MILLED BEARING SURFACE FINISH AT BOTTOM OF COLUMN AND TOP OF BASE PL
4. ACCEPTABLE TO SLOT HOLES RADIALLY WITH X" MINIMUM DISTANCE FROM EDGE OF HOLE TO EDGE OF PLATE TO ALLOW FOR CONSTRUCTION TOLERANCE WITH SQUARE OR CIRCULAR PL WASHERS (ASTM A36). MINIMUM WASHER SIZES SHALL BE IN ACCORDANCE WITH AISC TABLE 14-2.

1 TYP. GRAVITY COLUMN BASE PLATE DETAIL
1" = 1'-0"



6 LIGHT GAUGE JOIST TO WF
1" = 1'-0"



NOTES:

1. REF. PLAN AND SCHEDULE 2/S6.01 FOR HOLE TYPE AND QUANTITY OF BOLTS.
2. FOR COLUMN TOP PLATE CONNECTION AND FULL DEPTH STIFFENERS REF. 5/S6.01.

4 CANTILEVER BEAM DETAIL AT COL.
1" = 1'-0"

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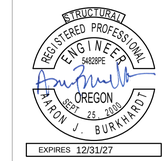
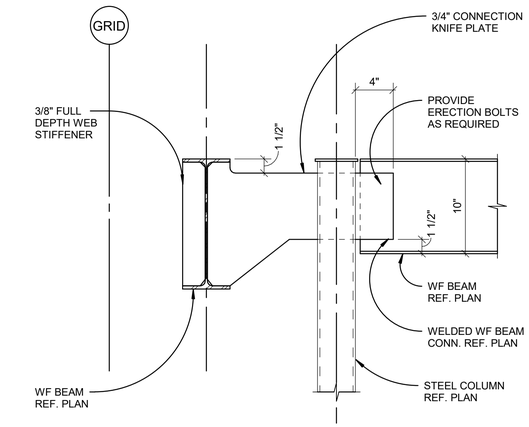


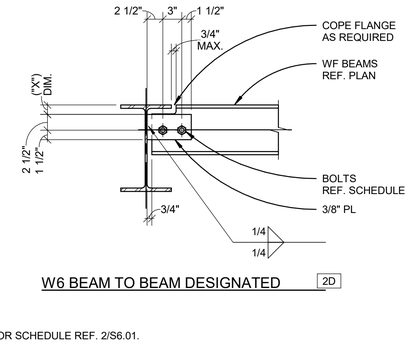
STEEL DETAILS

S6.01



1 ECCENTRIC BEAM TO COLUMN

1 1/2" = 1'-0"



W6 BEAM TO BEAM DESIGNATED 2D

NOTES:

1. FOR SCHEDULE REF. 2/S6.01.
2. FOR ("X") DIMENSION REF. DETAIL 2/S6.01.

2 2D BOLTED BEAM TO BEAM CONNECTION

1" = 1'-0"

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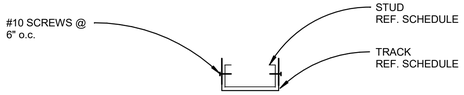
STEEL DETAILS

S6.02

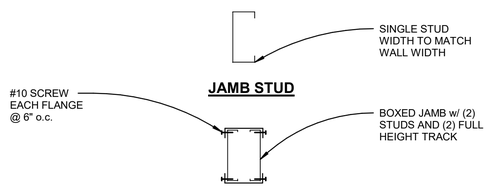


TYP. WALL OPENING "A" HEADER SCHEDULE				
MARK	STUD	TRACK	MAX. SPAN	NOTES
A-1	600S162-33	600T150-33	4'-0"	INTERIOR HEADERS ONLY, U.N.O.
A-2	600S162-43	600T150-43	4'-0"	EXTERIOR HEADERS, U.N.O.

7 HEADER AND BEAM SCHEDULE
1" = 1'-0"

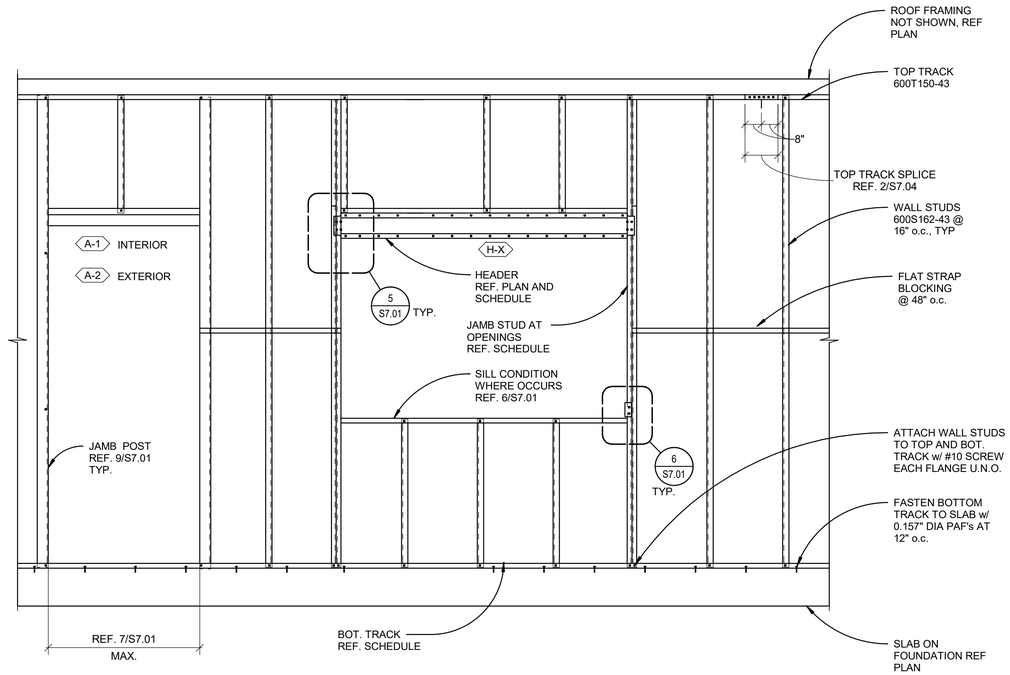
"H" HEADER SCHEDULE				
MARK	TOP & BOT. TRACK	STUDS	MAX. OPENING DIMENSIONS	NOTES
H1	600T150-33	(2) 600S162-33	4'-0"	REF. 5/S7.01 AND JAMB 1
H2	600T150-43	(2) 600S162-43	6'-0"	REF. 5/S7.01 AND JAMB 2

8 HEADER SCHEDULE
1" = 1'-0"

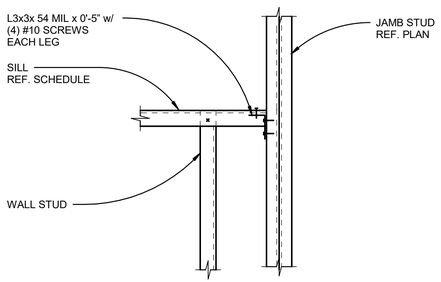


BEARING WALL JAMB SCHEDULE		
MARK	STUD SIZE	NOTES
1	600S162-43	TYPICAL INTERIOR DOOR OPENINGS
2	(2)600S162-43 BACK TO BACK	TYPICAL EXTERIOR WALL OPENINGS
3	(2) 600S162-54 (2) 600T150-54	BOXED

9 TYP. BEARING WALL JAMB SCHED.
1" = 1'-0"



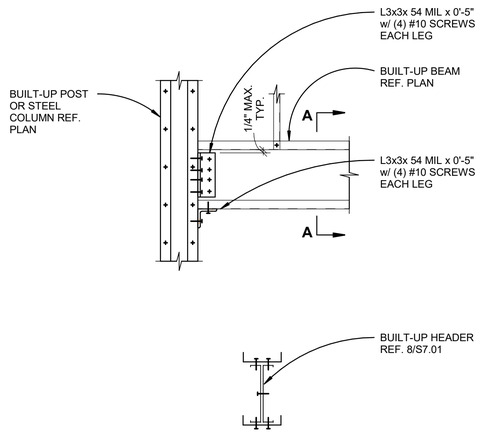
4 TYP. BEARING WALL FRAMING
1/2" = 1'-0"



BEARING WALL SILL SCHEDULE		
MAX. OPENING WIDTH	SILL INTERIOR SIZE	EXTERIOR SILL
4'-0"	T150-33	T150-43
6'-0"	T150-33	T150-54

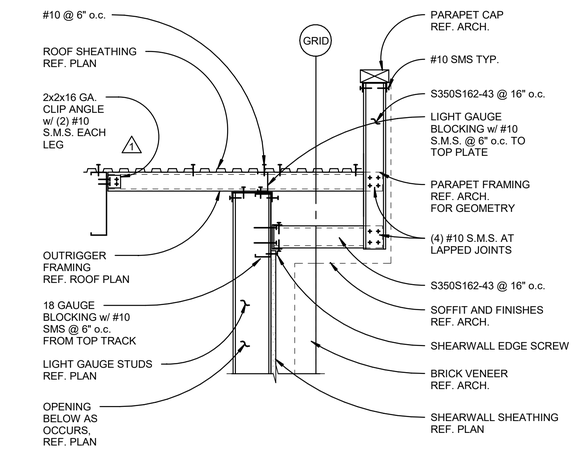
NOTE:
SILL WIDTH TO MATCH BEARING WALL STUD WIDTH

6 TYP. SILL DETAIL
1" = 1'-0"

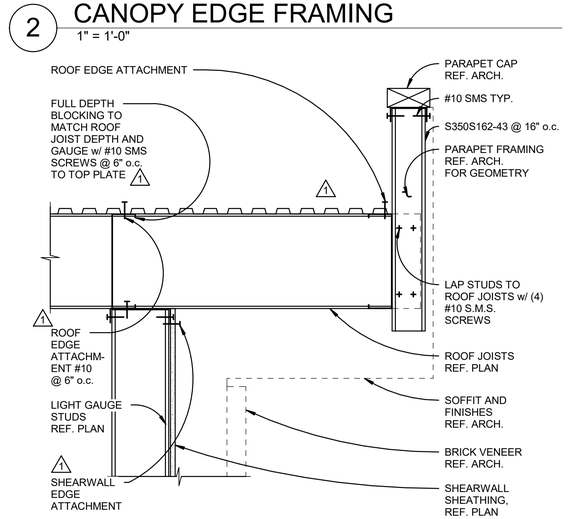


SECTION A-A

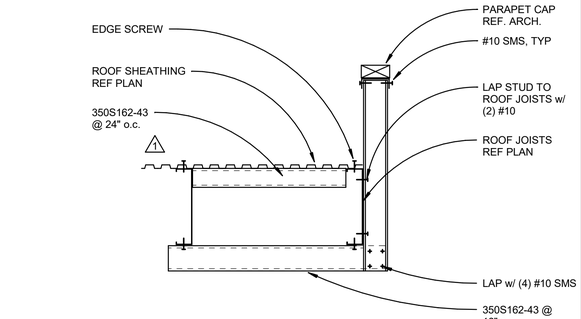
5 TYP. WALL HEADER DETAIL
1" = 1'-0"



1 LIGHT GAUGE ROOF FRAMING
1" = 1'-0"



2 CANOPY EDGE FRAMING
1" = 1'-0"



3 ROOF FRAMING AT OVERHANG
1 1/2" = 1'-0"

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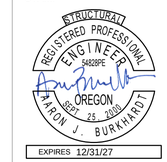
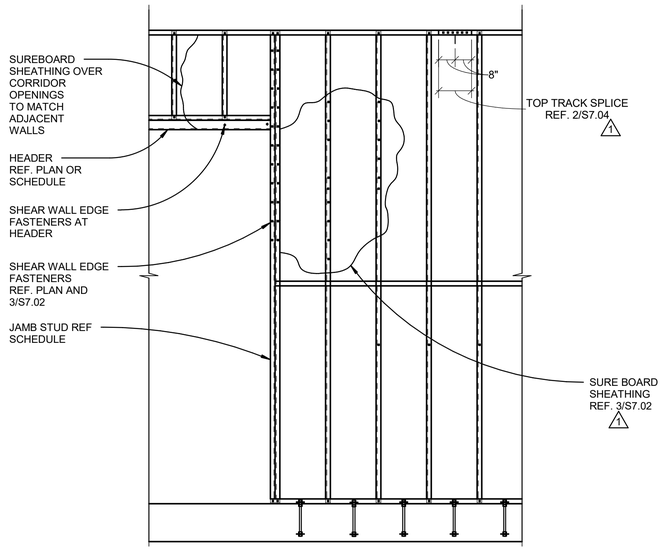
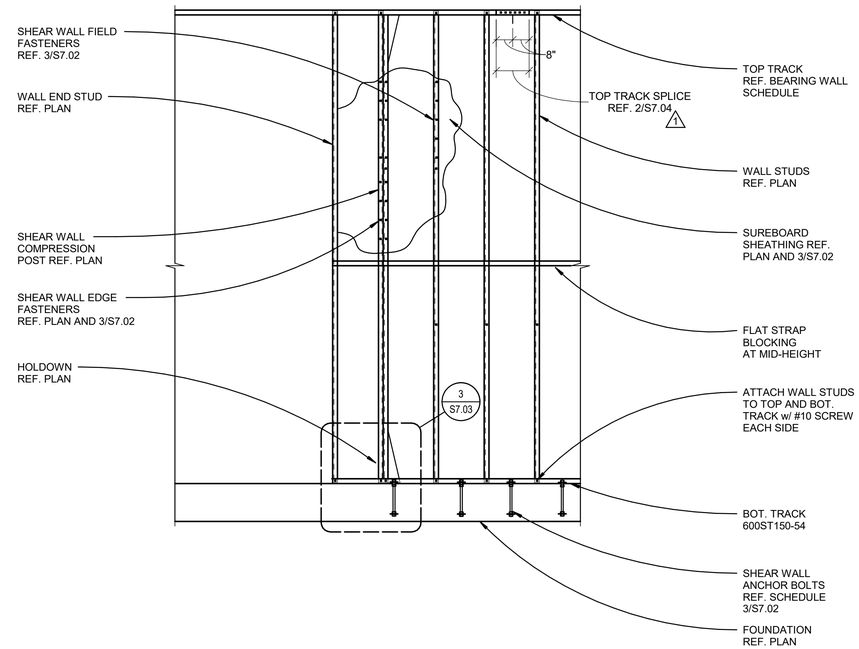


LIGHT GAUGE DETAILS

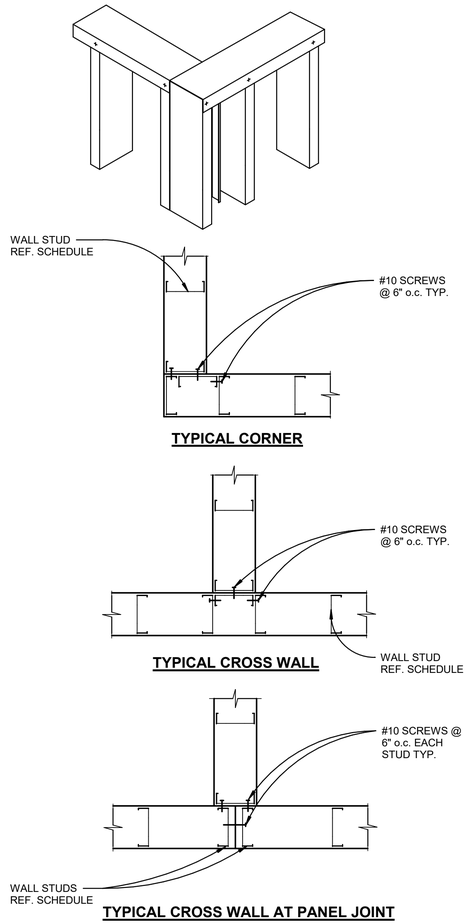
S7.01



PERFORATED SHEAR WALL



TYPICAL SHEAR WALL PANEL



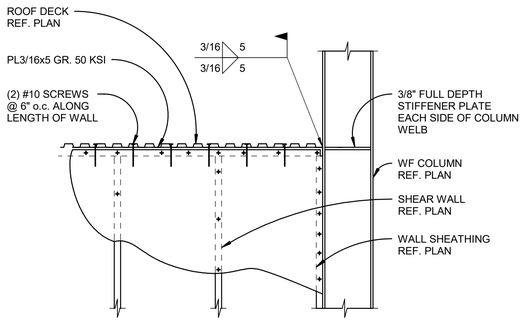
TYPICAL CORNER

TYPICAL CROSS WALL

TYPICAL CROSS WALL AT PANEL JOINT

2 TYPICAL SHEAR WALL FRAMING

1/2" = 1'-0"



SHEAR WALL HOLD DOWN SCHEDULE

MARK	COMPRESSION POST	HOLD DOWN TYPE	ROD DIAMETER	NOTES
A	(2) S200-68	S/HDU9	7/8"Ø	w/ 9" EMBEDMENT 1
B	(2) S200-68	S/HDU11	7/8"Ø	w/ 9" EMBEDMENT
C	HSS COL.	HSS COL.	N.A.	REF. PLAN

NOTES:

1. COMPRESSION POST STUD WIDTH TO MATCH WIDTH OF STUD WALL.
2. FILL ALL HOLD DOWN HOLES w/ #14 SELF TAPPING SCREWS.
3. 1/4"Ø SELF-DRILLING SCREWS MAY BE SUBSTITUTED FOR #14 SCREWS.

1 TYP. BEARING WALL CORNER DETAILS

1" = 1'-0"

SHEAR WALL SCHEDULE

WALL SYMBOL	SUREBOARD SHEATHING DESIGNATION	SCREW PATTERN		ANCHOR BOLTS AT SLAB
		EDGE	FIELD	
1	200	#10 @ 6" o.c.	#10 @ 12" o.c.	5/8"Ø A.B. @ 4'-0" o.c. w/ 9" EMBEDMENT 1
2	200	#10 @ 4" o.c.	#10 @ 12" o.c.	5/8"Ø A.B. @ 2'-8" o.c. w/ 9" EMBEDMENT 1
3	200	#10 @ 3" o.c.	#10 @ 12" o.c.	5/8"Ø A.B. @ 1'-4" o.c. w/ 9" EMBEDMENT 1
4	200	#10 @ 2" o.c.	#10 @ 12" o.c.	5/8"Ø A.B. @ 1'-4" o.c. w/ 9" EMBEDMENT 1

NOTE:

1. INSTALL SUREBOARD SHEATHING PER MANUFACTURER'S REQUIREMENT. REF. IAPMO CERTIFICATION ES ER-0126.
2. REF PLAN FOR WALL STUD SIZE AND SPACING.
3. ALL SHEAR WALL STUDS SHALL BE MINIMUM -54 MIL UNLESS HEADER IS REQ'D. PER BEARING WALL SCHEDULE.
4. ALL SHEAR WALLS SHALL BE BLOCKED REF. 2/S7.02 OPPOSITE OF THE SUREBOARD SHEATHING.

5 SHEAR TRANSFER DETAIL

1" = 1'-0"

4 SHEAR WALL HOLD DOWN SCHEDULE

3 SHEAR WALL SCHEDULE

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LIGHT GAUGE DETAILS

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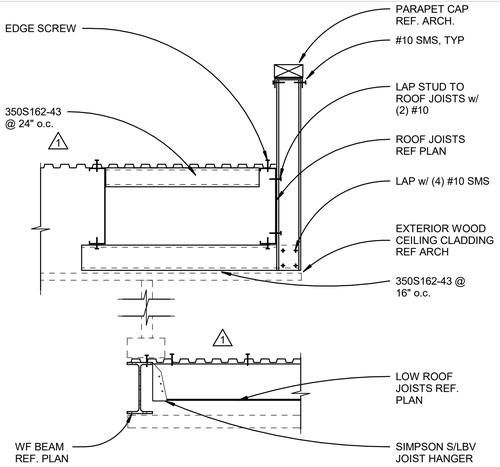
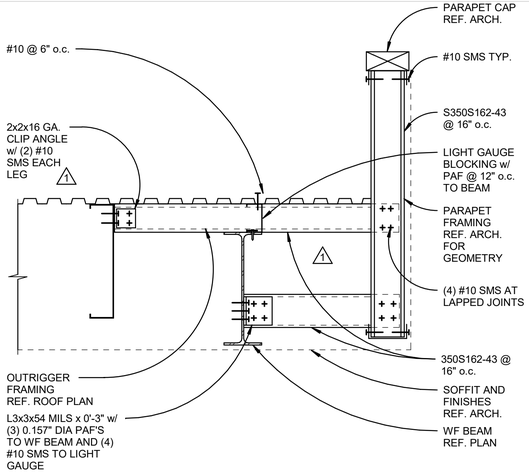
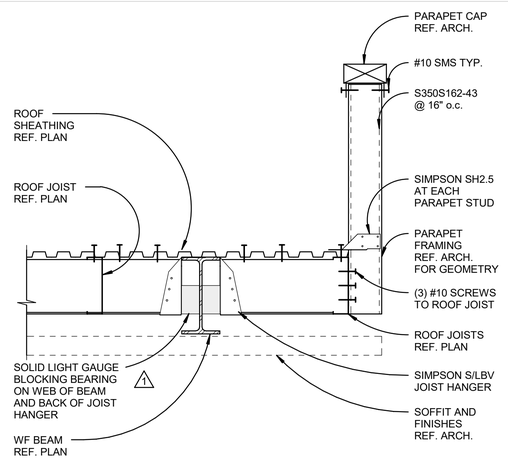


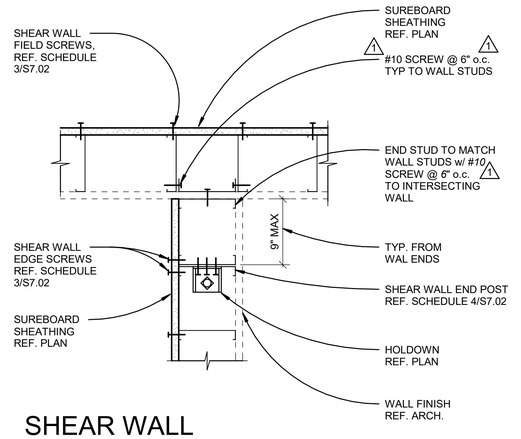
10 CANOPY EDGE FRAMING
1" = 1'-0"



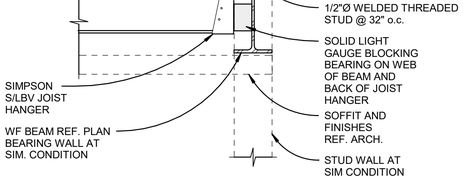
7 HIGH ROOF EAVE AT EXTERIOR
1 1/2" = 1'-0"



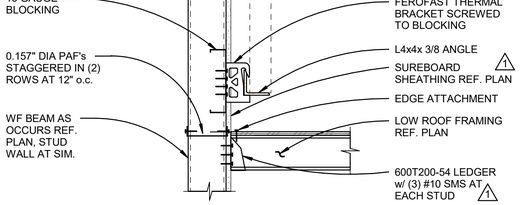
4 ROOF EDGE FRAMING DETAIL
1 1/2" = 1'-0"



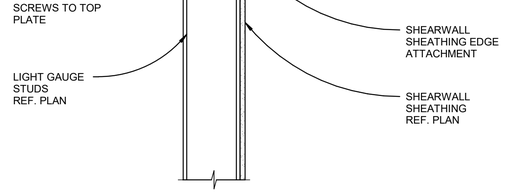
1 SHEAR WALL HOLDOWN AT INTERSECTION
1 1/2" = 1'-0"



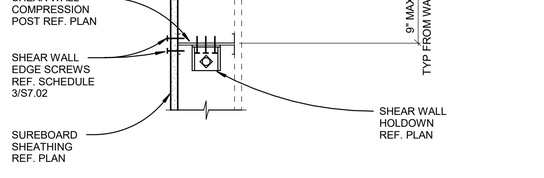
11 LOW ROOF EAVE AT EXTERIOR
1 1/2" = 1'-0"



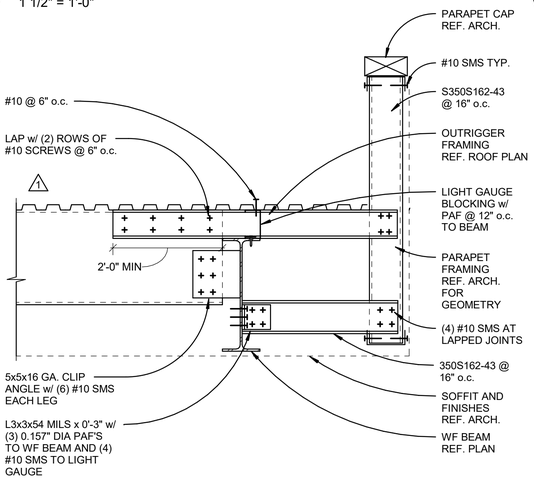
8 FRAMING AT SOUTH ELEVATION
1" = 1'-0"



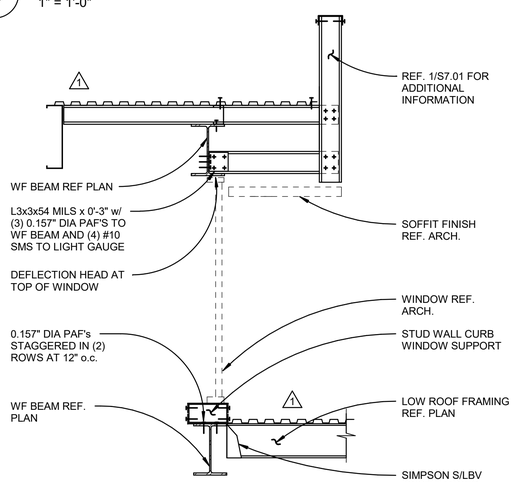
5 ROOF JOIST TO STUD WALL
1 1/2" = 1'-0"



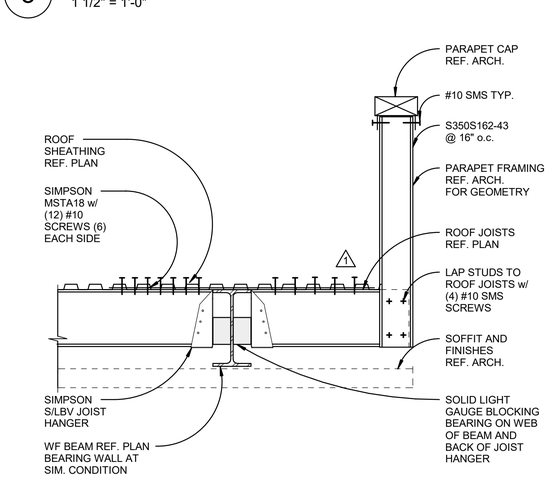
2 SHEAR WALL HOLDOWN AT CORNER
1 1/2" = 1'-0"



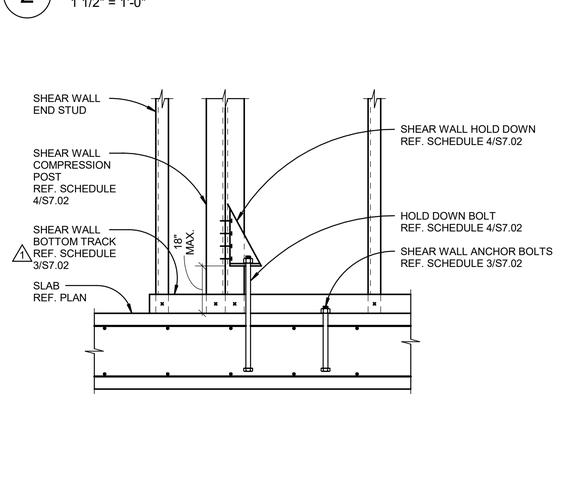
12 HIGH ROOF EAVE AT EXTERIOR
1 1/2" = 1'-0"



9 FRAMING AT SOUTH ELEVATION
1" = 1'-0"



6 LOW ROOF EAVE AT EXTERIOR
1 1/2" = 1'-0"



3 SHEAR WALL HOLD DOWN AT SLAB
1" = 1'-0"

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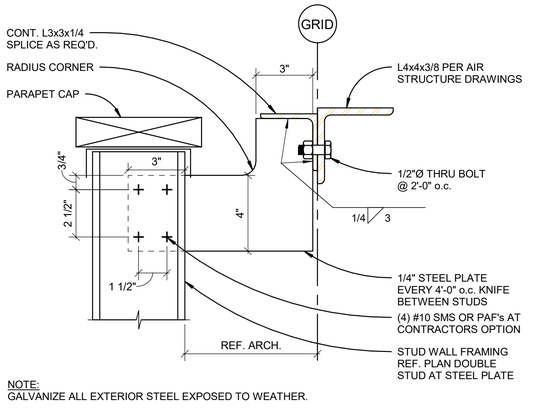
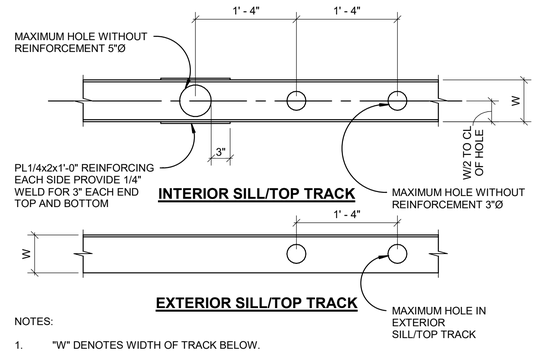
LIGHT GAUGE DETAILS

S7.03



NOTE:
GALVANIZE ALL EXTERIOR STEEL EXPOSED TO WEATHER.

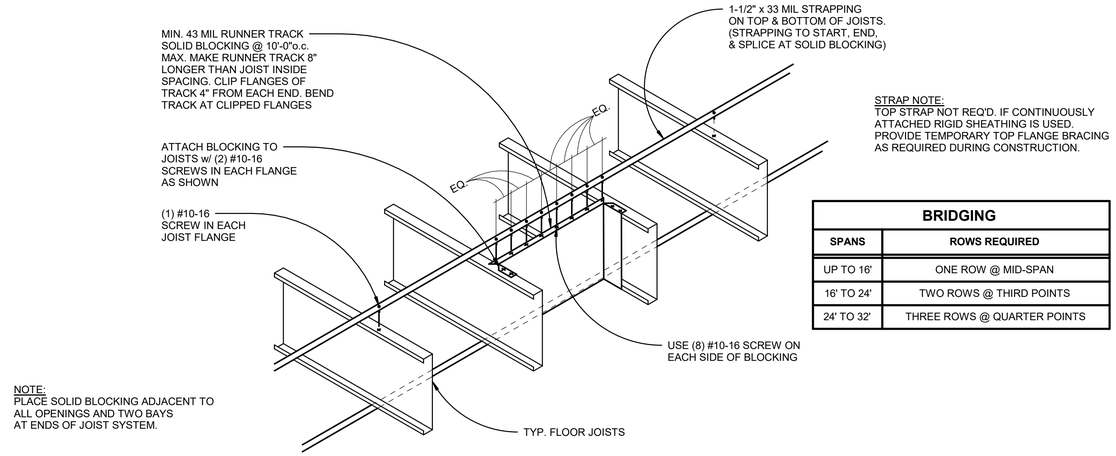
6 AIR STRUCTURE ATTACHMENT DETAIL
3" = 1'-0"



NOTES:

1. "W" DENOTES WIDTH OF TRACK BELOW.
2. WHERE NOTCHED OR DRILLED HOLE EXCEEDS ALLOWABLE: NOTIFY STRUCTURAL ENGINEER.
3. ALL HOLES TO BE DRILLED, NOT SAWN.

5 TYP. HOLES THROUGH TRACK
1" = 1'-0"

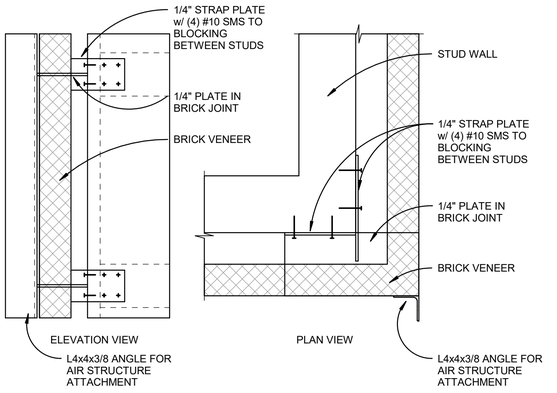


NOTE:
PLACE SOLID BLOCKING ADJACENT TO ALL OPENINGS AND TWO BAYS AT ENDS OF JOIST SYSTEM.

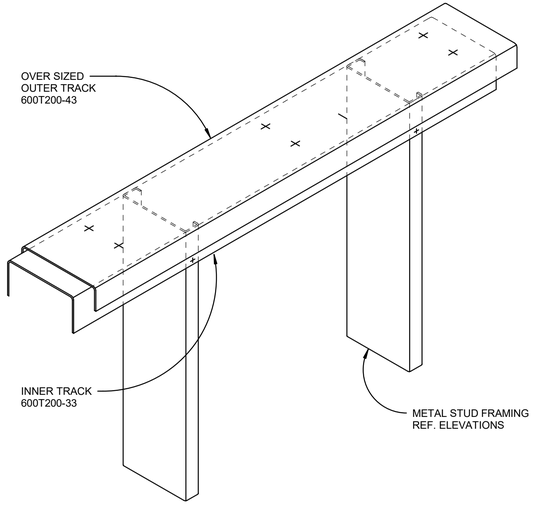
STRAP NOTE:
TOP STRAP NOT REQ'D. IF CONTINUOUSLY ATTACHED RIGID SHEATHING IS USED. PROVIDE TEMPORARY TOP FLANGE BRACING AS REQUIRED DURING CONSTRUCTION.

BRIDGING	
SPANS	ROWS REQUIRED
UP TO 16'	ONE ROW @ MID-SPAN
16' TO 24'	TWO ROWS @ THIRD POINTS
24' TO 32'	THREE ROWS @ QUARTER POINTS

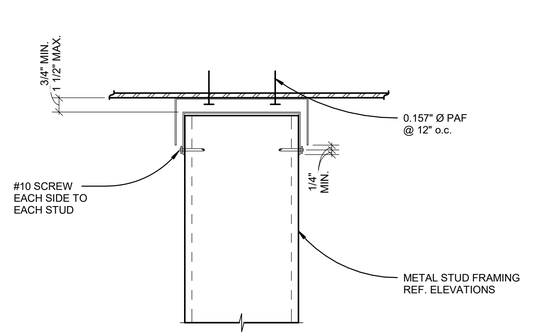
1 TYP. JOIST BRIDGING
1" = 1'-0"



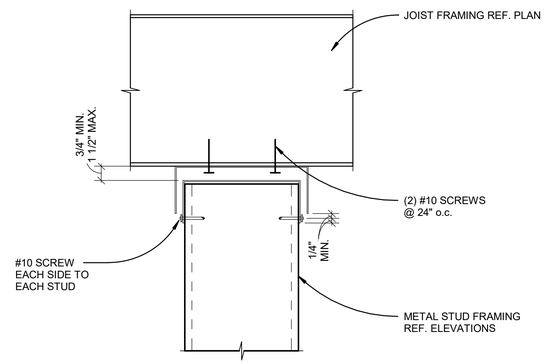
7 AIR STRUCTURE ATTACHMENT DETAIL
1" = 1'-0"



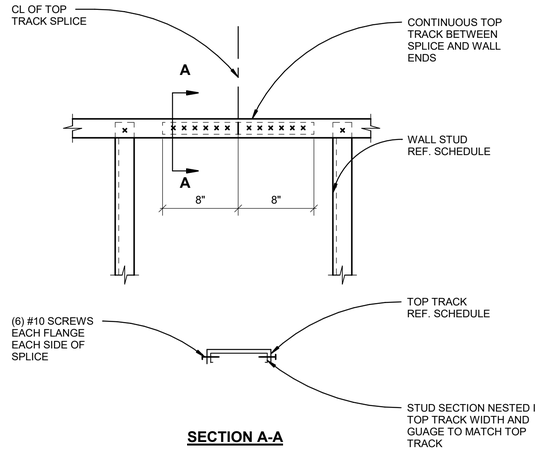
4 NESTED TRACK DETAIL
3" = 1'-0"



STEEL

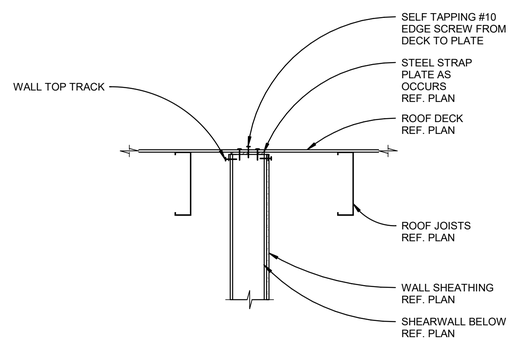


LIGHT GAGE



SECTION A-A

2 TYP. TOP TRACK SPLICE
1 1/2" = 1'-0"



3 ROOF JOISTS PARALLEL TO WALL
1" = 1'-0"

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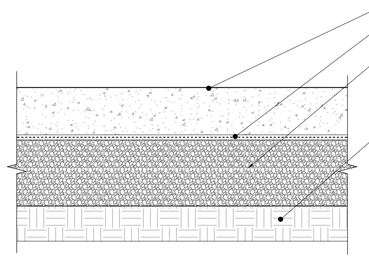
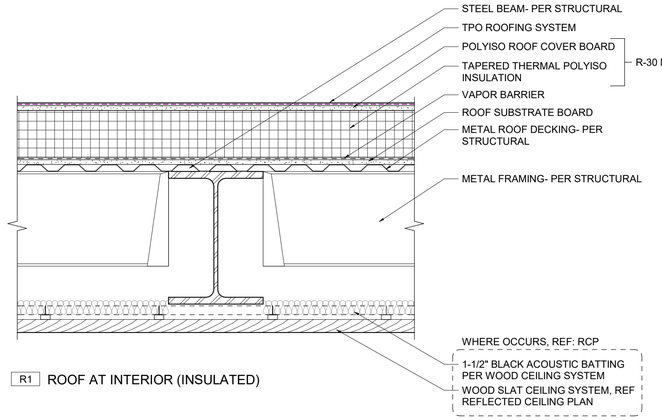
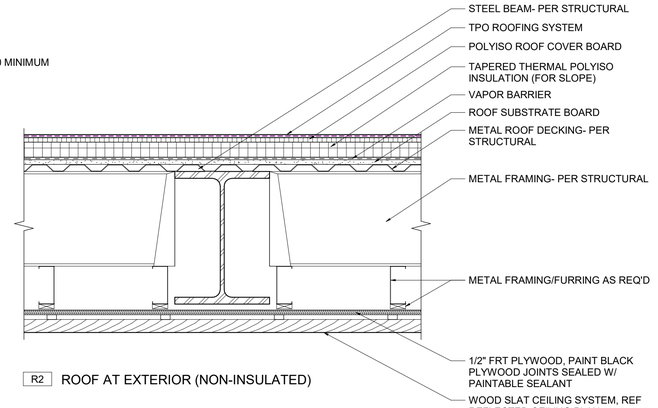
HORIZONTAL ASSEMBLIES



F1 CONCRETE SLAB-ON-GRADE



R1 ROOF AT INTERIOR (INSULATED)

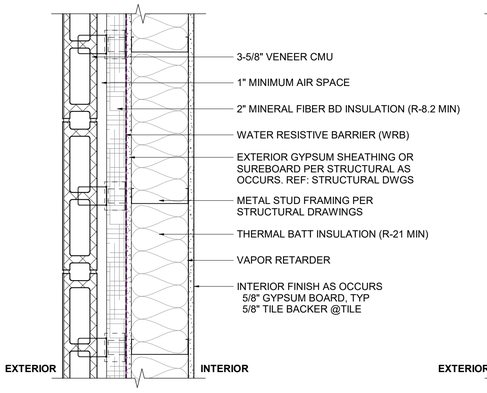


R2 ROOF AT EXTERIOR (NON-INSULATED)

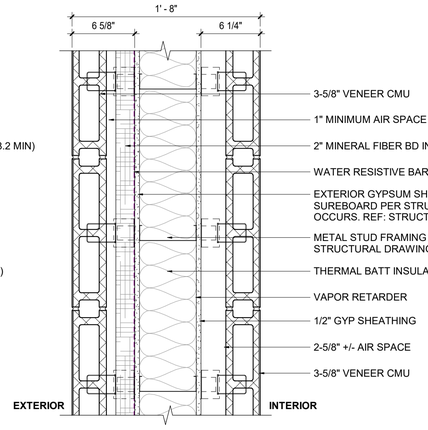
GENERAL NOTES - ASSEMBLIES

1. SEE FLOOR PLANS DRAWINGS FOR WALL TYPE LOCATIONS.
2. SEE FLOOR PLANS AND REFLECTED CEILING PLANS FOR HORIZONTAL ASSEMBLY LOCATIONS.
3. SEE FINISH SCHEDULE, INTERIOR ELEVATIONS, AND DETAILS FOR SPECIAL CONDITIONS AND APPLIED WALL FINISHES.
4. MAINTAIN FIRE RATING OF WALLS AROUND FIRE EXTINGUISHER CABINETS AND OTHER RECESSED ITEMS.
5. FRAME AROUND BEAMS AND OTHER STRUCTURAL ELEMENTS WHEN THEY OCCUR WITHIN THE SPACE OF A FIRE RATED OR ACOUSTICAL ASSEMBLY.
6. PROVIDE ACOUSTICAL SEAL AT FLOOR / CEILING / WALL TRANSITIONS, RECESSED BOXES, AND PENETRATIONS OF SOUND RATED ASSEMBLIES AND OTHER CONSTRUCTION AS REQUIRED TO ACHIEVE WALL TYPE STC RATING.
7. PROVIDE MOISTURE RESISTANT GYPSUM BOARD TYPICAL AT ALL RESTROOMS, BATHROOMS, AND KITCHEN WALLS.
8. PROVIDE CEMENT BACKERBOARD AT LOCATIONS SPECIFIED TO RECEIVE WALL TILE. PROVIDE IN ADDITION TO GYPSUM WALL BOARD AT RATED WALLS AND IN LIEU OF GYPSUM BOARD AT NON-RATED WALLS.
9. ALL FRAMING AND FINISHES OF INTERIOR WALLS TO EXTEND TO THE UNDERSIDE OF STRUCTURE ABOVE UNLESS NOTED OTHERWISE.
10. AT GYPSUM BOARD CEILINGS, INTERIOR WALL FINISHES TO TERMINATE AT CEILING LEVEL. FRAMING AND SOUND ATTENUATION TO CONTINUE TO UNDERSIDE OF STRUCTURE ABOVE AS OCCURS.
11. AT ACOUSTIC CEILING TILE CEILINGS, INTERIOR WALL FINISHES TO EXTEND 6" ABOVE CEILING LEVEL. FRAMING AND SOUND ATTENUATION TO CONTINUE TO UNDERSIDE OF STRUCTURE ABOVE AS OCCURS.
12. COORDINATE ALL FRAMING AND SHEATHING REQUIREMENTS WITH STRUCTURAL DRAWINGS AND SPECIFICATIONS. STRUCTURAL ELEMENTS NOT SHOWN IN ARCHITECTURAL ASSEMBLY DIAGRAMS ARE REQUIRED TO BE INSTALLED.
13. ALL WOOD IN WALL, PARTITION, AND ROOF ASSEMBLIES TO BE FIRE RETARDANT TREATED WOOD. ALL OTHER MATERIALS IN WALL, PARTITION, AND ROOF ASSEMBLIES TO BE NON-COMBUSTIBLE.
14. OPENINGS AND PENETRATIONS IN THE BUILDING ENVELOPE TO BE SEALED WITH CAULKING OR CLOSED WITH GASKETING SYSTEMS AS REQUIRED FOR BUILDING MATERIAL. JOINTS AND SEAMS TO BE SEALED IN THE SAME MANNER OR TAPED OR COVERED WITH A MOISTURE VAPOR-PERMEABLE WRAPPING MATERIAL. SEALING MATERIALS SPANNING JOINTS BETWEEN CONSTRUCTION MATERIALS TO ALLOW FOR EXPANSION AND CONTRACTION OF THE CONSTRUCTION MATERIALS.
15. COORDINATE APPROPRIATE SUBSTRATES AND SURFACE PREPARATION WITH FINISH MATERIALS INDICATED ON INTERIOR ELEVATION.

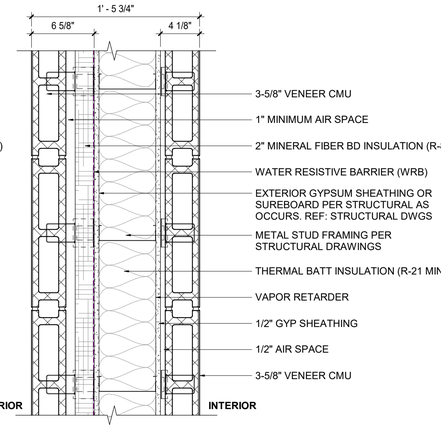
VERTICAL ASSEMBLIES



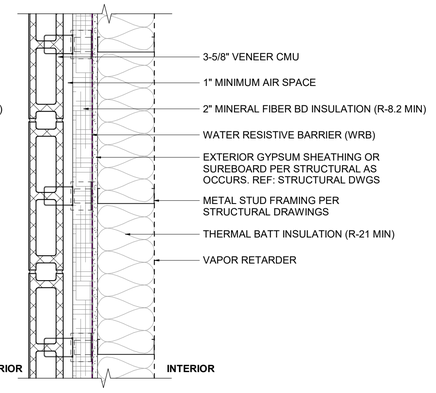
E01 **NR EXTERIOR WALL CMU VENEER**



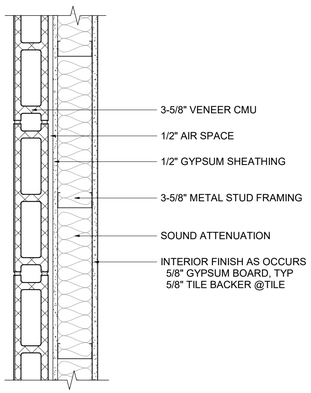
E02 **NR EXTERIOR WALL CMU VENEER**



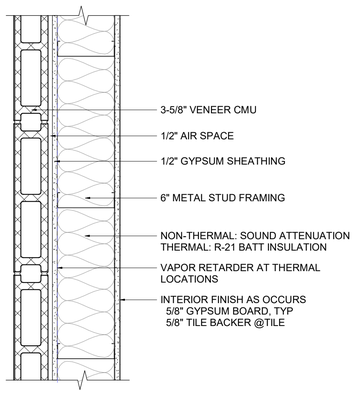
E03 **NR EXTERIOR WALL CMU VENEER**



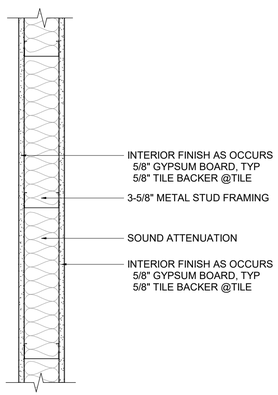
E04 **NR EXTERIOR WALL CMU VENEER**



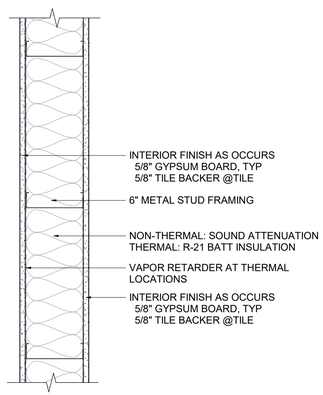
11C.X **NR INTERIOR WALL 3-5/8" METAL FRAMING**
PARTITION CONFIGURATION REF: A1 / A0.02



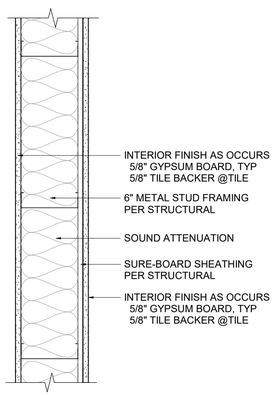
11__ **NR INTERIOR WALL 6" FRAMING WITH CMU VENEER**
11E.X NON-THERMAL (TYP)
11F.X THERMAL
PARTITION CONFIGURATION REF: A1 / A0.02



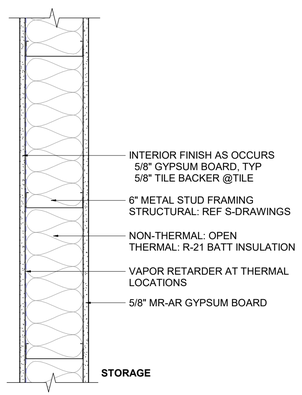
12C.X **NR INTERIOR WALL 3-5/8" METAL FRAMING**
PARTITION CONFIGURATION REF: A1 / A0.02



12__ **NR INTERIOR WALL 6" METAL FRAMING**
12E.X NON-THERMAL (TYP)
12F.X THERMAL
PARTITION CONFIGURATION REF: A1 / A0.02



13E.X **NR INTERIOR SHEAR WALL 6" METAL FRAMING**
PARTITION CONFIGURATION REF: A1 / A0.02



14__ **NR INTERIOR WALL 6" METAL FRAMING**
14E.X STRUCTURAL + THERMAL
14F.X STRUCTURAL + NON-THERMAL
14G.X NON-STRUCTURAL + NON-THERMAL
PARTITION CONFIGURATION REF: A1 / A0.02

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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02.10.2026
DRAWN BY: BTS

BID SET

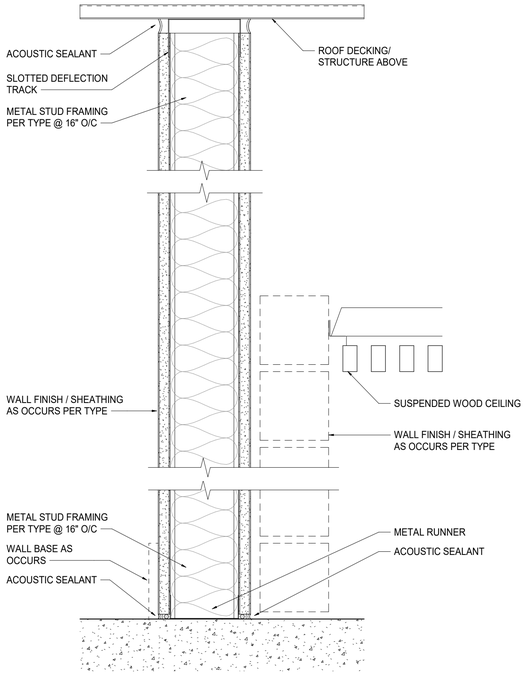
REVISION:

STAMP

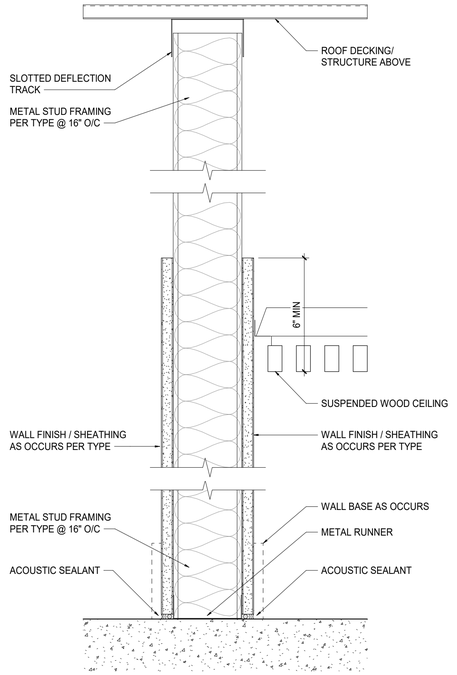
REGISTERED ARCHITECT
CORNELL A. ANDERSON
PORTLAND, OREGON
5029
STATE OF OREGON

TYPICAL ASSEMBLIES

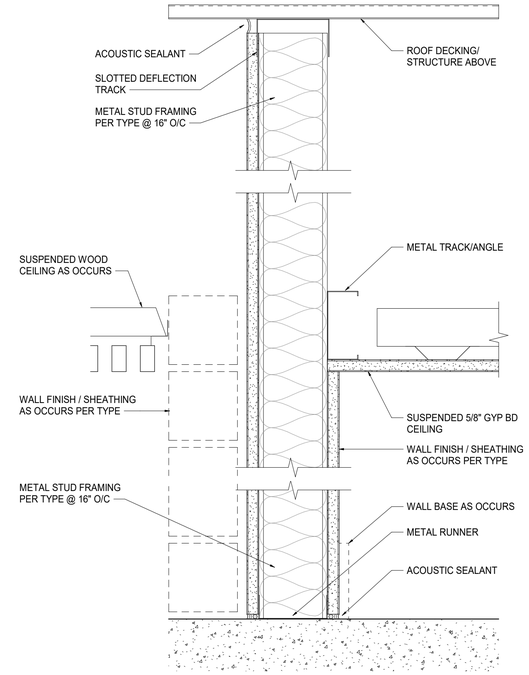
A0.01



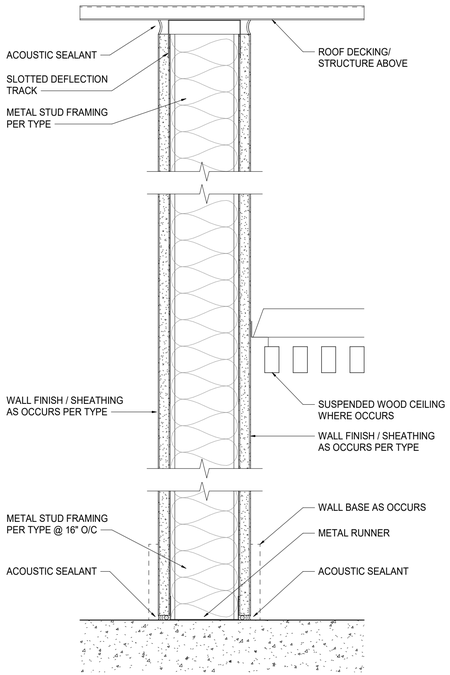
PARTITION CONFIGURATION '.A'



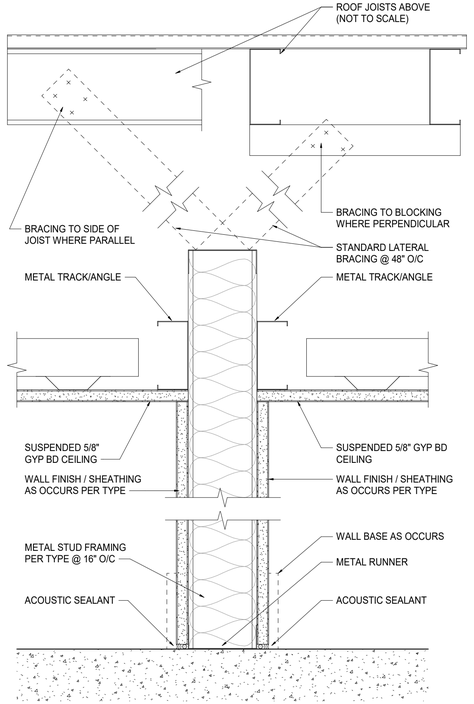
PARTITION CONFIGURATION '.B'



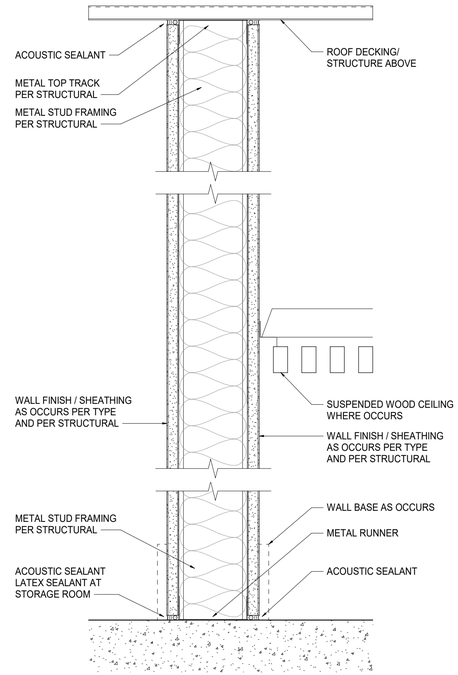
PARTITION CONFIGURATION '.C'



PARTITION CONFIGURATION '.D'



PARTITION CONFIGURATION '.E'



PARTITION CONFIGURATION '.F'
STRUCTURAL WALL

A1 INTERIOR PARTITIONS
3" = 1'-0"

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REGISTERED ARCHITECT
CORNELL A. ANDERSON
PORTLAND, OREGON
5029
STATE OF OREGON

TYPICAL ASSEMBLIES

A0.02

DOOR SCHEDULE

DOOR NO.	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR PAIR	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	GLAZING	RATING	JAMB DETAIL	HEAD DETAIL	SILL DETAIL	HW GROUP	COMMENTS
101-1	D2	3' - 0"	9' - 0 7/8"	PAIR	AL	AA	SF	AL	AA	GL-1	---	REF: B2 / A6.23	REF: A2 / A6.23	REF: B1 / A6.23	07	ADA PUSH BUTTON OPERATOR- NORTH LEAF, KEYCARD, HEIGHT PER CURTAIN WALL SYSTEM
101-2	D2	3' - 0"	9' - 0 7/8"	PAIR	AL	AA	SF	AL	AA	GL-1	---	REF: B2 / A6.23	REF: A2 / A6.23	REF: B1 / A6.23	06	HEIGHT PER CURTAIN WALL SYSTEM
104-1	D3	3' - 0"	9' - 2 3/8"	PAIR	AL	AA	SF	AL	AA	GL-1	---	REF: A1 / A6.11 REF: A2 / A6.11	REF: C1 / A6.21	REF: B1 / A6.23 SIM	05	PANIC HW, HEIGHT PER STOREFRONT SYSTEM
106-1	D1	3' - 0"	7' - 2"	---	HM	PT	F1	HM	PT	---	---	REF: A1 / A7.11	REF: A2 / A7.11	---	01	
107-1	D1	3' - 0"	7' - 2"	---	HM	PT	F1	HM	PT	---	---	REF: A1 / A7.11	REF: A2 / A7.11	---	01	
108-1	D1	3' - 0"	7' - 2"	---	HM	PT	F1	HM	PT	---	---	REF: A1 / A7.11	REF: A2 / A7.11	---	01	
109-1	D1	3' - 0"	7' - 2"	---	HM	PT	F1	HM	PT	---	---	REF: A1 / A7.11	REF: A2 / A7.11	---	01	
110-1	D4	3' - 0"	7' - 2"	---	WD	CLR	F2	WD	CLR	GL-2	---	REF: B1 / A7.11	REF: B2 / A7.11 SIM	---	02	
111-1	D4	3' - 0"	7' - 2"	---	WD	CLR	F2	WD	CLR	GL-2	---	REF: B1 / A7.11	REF: B3 / A7.11	---	02	
112-1	D1	3' - 0"	7' - 2"	---	WD	CLR	F1	WD	CLR	---	---	REF: B1 / A7.11	REF: B2 / A7.11	---	03	KEYCARD
114-1	D4	3' - 0"	7' - 2"	---	WD	CLR	F2	WD	CLR	GL-2	---	REF: B1 / A7.11	REF: B3 / A7.11	---	03A	KEYCARD
150-1	OH	10' - 0 3/8"	8' - 6"	---	STL (INSUL)	FF		STL	PT		---	REF: C3 / A6.23	REF: B3 / A6.23	REF: C1 / A6.05	--	HIGH LIFT TRACKS, POWER DOOR OPERATOR
150-2	D1	3' - 0"	7' - 0"	---	HM (INSUL)	PT	F1	HM	PT	---	---	REF: D1 / A6.23	REF: C1 / A6.23	REF: B1 / A6.05	04	
AS-1	---			---	AL	PT	---	AL/STL	PT	---	---				--	AIR STRUCTURE ENTRY UNIT PROVIDED BY AIR STRUCTURE SUPPLIER. ADA PUSH BUTTON OPERATOR

NOTES - DOOR SCHEDULE

1. REFERENCE PLANS FOR DOOR LOCATIONS
2. REFERENCE PLANS FOR # OF DOORS
3. SAFETY GLAZING TO MEET NECESSARY TEST REQUIREMENTS
4. ALL INTERIOR DOORS TO BE 1-3/4" THICK
5. ALL OPENING SIZES TO BE FIELD VERIFIED PRIOR TO DOOR FABRICATION
6. ALL EXPOSED EXTERIOR HARDWARE TO BE FINISHED TO MATCH ALUMINUM ENTRANCES.
7. ALL EXPOSED INTERIOR HARDWARE TO BE SATIN NICKEL FINISHED, OR SATIN STAINLESS WHERE BASE METAL IS STAINLESS.
8. ALUMINUM DOORS AND FRAMES INSTALLER TO PREPARE ALL OPENINGS FOR HARDWARE.
9. VERIFY DOOR THICKNESS AND PROVIDE HARDWARE EXTENSIONS AS REQUIRED FOR LATCHING AND FUNCTION.

MATERIAL ABBREVIATIONS:

HM:	HOLLOW METAL
HM (INSUL):	HOLLOW METAL - INSULATED
AL:	ALUMINUM (PER STOREFRONT / CURTAIN WALL)
WD:	WOOD- SOLID CORE, SPECIES TO MATCH WD-1
STL (INSUL):	STEEL - INSULATED

FINISH ABBREVATIONS:

PT:	PAINTED (PT-1: TYPICAL, PT-3: RESTROOMS)
AA:	ALUMINUM FINISH TO MATCH STOREFRONT
FF:	FACTORY FINISH (COLOR TO BE SELECTED)
CLR:	TRANSPARENT WOOD FINISH TO MATCH WD-1

TYPE ABBREVIATIONS:

SF:	INTEGRAL WITH STOREFRONT / CURTAIN WALL SYSTEM, SEE ELEVATIONS
GL-1:	INSULATED TEMPERED GLASS
GL-2:	NON-INSULATED TEMPERED GLASS
OH:	SECTIONAL OVERHEAD DOOR

DOOR HARDWARE SCHEDULE

Hardware Group No. 01

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1 4.5 X 4.5	619	IVE
1 EA	CORRIDOR LOCK W/ OUTSIDE INDICATOR W/INSIDE INDICATOR	L9456P6 M52A L583-363 OS-OCC IS-LOC	619	SCH
1 EA	SURFACE CLOSER	4050A REG OR PA AS REQ MC	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	619	IVE
1 EA	WALL STOP	WS406/407CVX	619	IVE
1 EA	GASKETING	488BK PSA (AS NEEDED)	BK	ZER

Hardware Group No. 02

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1 4.5 X 4.5	619	IVE
1 EA	OFFICE W/SIM RETRACT	L9056P6 M52A L583-363	619	SCH
1 EA	OH STOP	90S	619	GLY
1 EA	GASKETING	488BK PSA (AS NEEDED)	BK	ZER

Hardware Group No. 03

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1 4.5 X 4.5	619	IVE
1 EA	STOREROOM LOCK	L9080P6 M52A	619	SCH
1 EA	ELECTRIC STRIKE	6400 FSE 12/24 VAC/VDC	630	VON
1 EA	SURFACE CLOSER	4050A REG OR PA AS REQ	689	LCN
1 EA	WALL STOP	WS406/407CVX	619	IVE
1 EA	GASKETING	488BK PSA (AS NEEDED)	BK	ZER

CARD READER - PROVIDED BY DIV 28
POWER SUPPLY - WORK OF DIVISION 28

DOOR NORMALLY CLOSED AND LOCKED. VALID CREDENTIAL WILL MOMENTARILY RELEASE STRIKE AND ALLOW ENTRY. KEY OVERRIDE. DOOR WILL REMAIN LOCKED ON FIRE ALARM OR LOSS OF POWER. FREE EGRESS AT ALL TIMES.

Hardware Group No. 03A

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1 4.5 X 4.5	619	IVE
1 EA	STOREROOM LOCK	L9080P6 M52A	619	SCH
1 EA	ELECTRIC STRIKE	6400 FSE 12/24 VAC/VDC	630	VON
1 EA	OH STOP	90S	619	GLY
1 EA	SURFACE CLOSER	4050A REG OR PA AS REQ	689	LCN
1 EA	GASKETING	488BK PSA (AS NEEDED)	BK	ZER

CARD READER - PROVIDED BY DIV 28
POWER SUPPLY - WORK OF DIVISION 28

DOOR NORMALLY CLOSED AND LOCKED. VALID CREDENTIAL WILL MOMENTARILY RELEASE STRIKE AND ALLOW ENTRY. KEY OVERRIDE. DOOR WILL REMAIN LOCKED ON FIRE ALARM OR LOSS OF POWER. FREE EGRESS AT ALL TIMES.

Hardware Group No. 04

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3 EA	HINGE	5BB1HW 4.5 X 4.5 NRP	619	IVE
1 EA	STOREROOM	LOCKL9080P6 M52A	619	SCH
1 EA	SURFACE CLOSER	4050A SCUSH	689	LCN
1 EA	KICK PLATE	8400 10" X 2" LDW B-CS	619	IVE
1 EA	RAIN DRIP	142AA	AA	ZER
1 EA	GASKETING	488BK PSA (AS NEEDED)	BK	ZER
1 EA	DOOR SWEEP	477 W/END CAPS	AA	ZER
1 EA	THRESHOLD	766Dx6_FG-NH-TC316	D	PEM

Hardware Group No. 05

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
8 EA	HINGE	BY DOOR MFR		
1 EA	PANIC HARDWARE	3547A-EO	619	VON
1 EA	PANIC HARDWARE	3547A-NL-OP-388-CYL	619	VON
2 EA	LONG DOOR PULL	9264F 72" 56" STD	619	IVE
2 EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1 EA	GASKETING	488BK PSA (AS NEEDED)	BK	ZER
2 EA	DOOR SWEEP	BY DOOR MFR	AA	
2 EA	MEETING STILE	MATCH DOOR SWEEP	AA	
1 EA	THRESHOLD	766Dx6_FG-NH-TC316	D	PEM

Hardware Group No. 06

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
8 EA	HINGE	BY DOOR MFR		
1 EA	HEADER BOLT	4085		ADA
1 EA	MS1850S Series Deadlock	MS1850	619	ADA
2 EA	PUSH BAR	9100HD-O	630	IVE
2 EA	LONG DOOR PULL	9264F 72" 56" STD	619	IVE
1 EA	OH STOP	100SE	630	GLY
1 EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1 EA	SURF. AUTO OPERATOR	6331 AS REQ (120/240 VAC)	690	NOR
1 EA	ACTUATOR, TOUCHLESS	700-PEDESTAL		NOR
2 EA	ACTUATOR, TOUCHLESS	704-MULLION		NOR
1 EA	ACTUATOR BOLLARD	ADA-SS-TWR-47X4X6X2		PED
1 EA	GASKETING	488BK PSA (AS NEEDED)	BK	ZER
2 EA	DOOR SWEEP	BY DOOR MFR	AA	
2 EA	MEETING STILE	MATCH DOOR SWEEP	AA	
1 EA	THRESHOLD	766Dx6_FG-NH-TC316	D	PEM

"DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS" SIGNAGE TO BE PROVIDED IN LOCATION ACCEPTABLE TO THE AHJ. CONFIRM IN SUBMITTALS

COORDINATE OPENINGS IN ACTUATOR BOLLARD FOR HARDWARE MOUNTING AND CONFIRM DEVICES PRIOR TO FABRICATION. PROVIDE STUD-ANCHOR MOUNTING KIT

ACTUATOR TO BE RECESSED, FLUSH-MOUNT WHERE MOUNTED TO THE MULLION

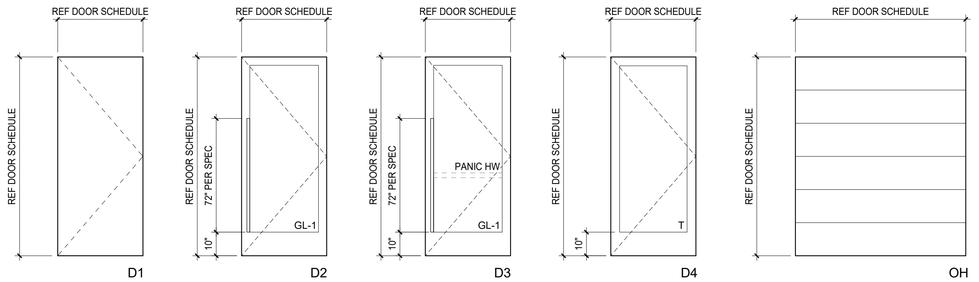
Hardware Group No. 07

QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
7 EA	HINGE	BY DOOR MFR		
1 EA	WIRED HINGE -EL	BY DOOR MFR		
1 EA	INTERMEDIATE PIVOT	7226PT INT TW4 CON_Y	619	IVE
1 EA	HEADER BOLT	4085		ADA
2 EA	PUSH BAR	9100HD-O	630	IVE
1 EA	ELEC DEADLATCH	4300	628	ADA
2 EA	DEADLATCH PADDLE	4590	628	ADA
2 EA	LONG DOOR PULL	9264F 72" 56" STD	619	IVE
2 EA	SURFACE CLOSER	4111 SCUSH	689	LCN
1 EA	GASKETING	488BK PSA (AS NEEDED)	BK	ZER
2 EA	DOOR SWEEP	BY DOOR MFR	AA	
2 EA	MEETING STILE	MATCH DOOR SWEEP	AA	
1 EA	THRESHOLD	766Dx6_FG-NH-TC316	D	PEM
1 EA	POWER SUPPLY	PS902 900-2RS	LGR	SCE

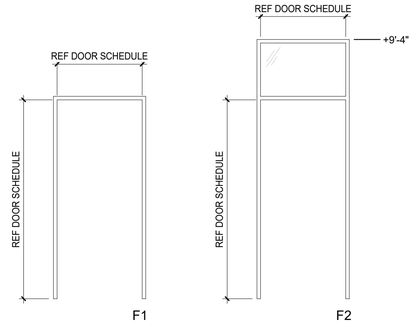
CARD READER - PROVIDED BY DIV 28
DOOR CONTACT(S) - WORK OF DIVISION 28

"DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS" SIGNAGE TO BE PROVIDED IN LOCATION ACCEPTABLE TO THE AHJ. CONFIRM IN SUBMITTALS

DOORS TO BE UNLOCKED DURING BUSINESS HOURS WITH SIGNAGE AND INDICATION. AFTER HOURS, DOORS WILL BE CLOSED AND LOCKED. VALID CREDENTIAL WILL MOMENTARILY UNLOCK OUTSIDE LEVER. RX TO SIGNAL VALID EGRESS. DOOR CONTACT TO MONITOR DOOR POSITION. DOORS WOULD REMAIN CLOSED AND LOCKED ON FIRE ALARM OR LOSS OF POWER AFTER HOURS. FREE EGRESS AT ALL TIMES.



DOOR TYPES



FRAME TYPES

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REGISTERED ARCHITECT
CORNELL A. ANDERSON
PORTLAND, OREGON
5029
STATE OF OREGON

DOOR SCHEDULE

A0.03

ROOM FINISH SCHEDULE

LEVEL	No.	ROOM NAME	FLOOR	BASE	WALLS								CEILING	COMMENTS
					NORTH		EAST		SOUTH		WEST			
					MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH		
LEVEL 01														
LEVEL 01	101	ENTRY	REF: A1.21	---	REF: B1 / A7.01		REF: A1 / A7.01		---	---	---	---	REF: A1.31	
LEVEL 01	102	CHECK-IN	REF: A1.21	---	REF: B1 / A7.01		REF: A5 / A8.01		---	---	---	---	REF: A1.31	
LEVEL 01	103	COURT ACCESS	REF: A1.21	---	---	---	REF: A1 / A7.01		REF: B3 / A7.01		---	---	REF: A1.31	
LEVEL 01	104	LOUNGE	REF: A1.21	---	REF: B1 / A7.01		REF: B2 / A7.01		REF: B3 / A7.01		REF: B4 / A7.01		REF: A1.31	
LEVEL 01	105	HALL	REF: A1.21	---	SFS		REF: A1 / A7.02		---	---	REF: A2 / A7.02		REF: A1.31	
LEVEL 01	106	ACCESSIBLE RESTROOM	REF: A1.21	SEE ELEVS	REF: A3 / A7.03 OPP		REF: A4 / A7.03 OPP		REF: A1 / A7.03 OPP		REF: A2 / A7.03 OPP		REF: A1.31	
LEVEL 01	107	RESTROOM	REF: A1.21	SEE ELEVS	REF: B3 / A7.03 OPP		REF: B4 / A7.03 OPP		REF: B1 / A7.03 OPP		REF: B2 / A7.03 OPP		REF: A1.31	
LEVEL 01	108	ACCESSIBLE RESTROOM	REF: A1.21	SEE ELEVS	REF: A3 / A7.03		REF: A4 / A7.03		REF: A1 / A7.03		REF: A2 / A7.03		REF: A1.31	
LEVEL 01	109	RESTROOM	REF: A1.21	SEE ELEVS	REF: B3 / A7.03		REF: B4 / A7.03		REF: B1 / A7.03		REF: B2 / A7.03		REF: A1.31	
LEVEL 01	110	OFFICE	REF: A1.21	SEE ELEVS	REF: C1 / A7.02		REF: C2 / A7.02		REF: C3 / A7.02		REF: C4 / A7.02		REF: A1.31	
LEVEL 01	111	OFFICE	REF: A1.21	SEE ELEVS	REF: C1 / A7.02		REF: C2 / A7.02		REF: C3 / A7.02		REF: C4 / A7.02		REF: A1.31	
LEVEL 01	112	STORAGE / UTILITY	REF: A1.21	RB-1	GYP BD	P-2	GYP BD, FRP TO 4'-0" AFF AT MOP SINK	P-2	GYP BD, FRP TO 4'-0" AFF	P-2	GYP BD	P-2	REF: A1.31	
LEVEL 01	113	HALL	REF: A1.21	---	REF: B1 / A7.01		REF: B1 / A7.02		REF: B2 / A7.02		---	---	REF: A1.31	
LEVEL 01	114	STAFF	REF: A1.21	SEE ELEVS	REF: D1 / A7.02		REF: D2 / A7.02		REF: D3 / A7.02		REF: D4 / A7.02		REF: A1.31	
LEVEL 01	150	EXTERIOR STORAGE	REF: A1.21	RB-1	3/4" PLYWOOD TO 8'-0" AFF, GYP BD ABOVE	P-2	3/4" PLYWOOD TO 8'-0" AFF, GYP BD ABOVE	P-2	3/4" PLYWOOD TO 8'-0" AFF, GYP BD ABOVE	P-2	3/4" PLYWOOD TO 8'-0" AFF, GYP BD ABOVE	P-2	REF: A1.31	

APPLIANCE SCHEDULE

APPLIANCE/EQUIPMENT	MANUFACTURER	MODEL	RESPONSIBILITY	COMMENTS
REFRIGERATOR/FREEZER	BOSCH	B30IB905SP	CONTRACTOR FURNISHED & INSTALLED	BUILT-IN, CUSTOM FRONT PANELS
MICROWAVE	BOSCH	HMD8454UC	CONTRACTOR FURNISHED & INSTALLED	ADA, UNDERCOUNTER
DISHWASHER	BOSCH	SPV68C73UC	CONTRACTOR FURNISHED & INSTALLED	CUSTOM FRONT PANEL
ICE MACHINE	SUMMIT	BIM182ADAIF	CONTRACTOR FURNISHED & INSTALLED	CUSTOM FRONT PANEL, LOCKING
BEVERAGE COOLERS	SUMMIT	ALBV266PNR	CONTRACTOR FURNISHED & INSTALLED	CUSTOM FRONT PANEL, QTY: 2
TELEVISION MONITORS	TBD	TBD	OWNER FURNISHED, CONTRACTOR INSTALLED	SURFACE MOUNTED, PROVIDE IN-WALL BLOCKING, RECESSED POWER AND DATA, QTY: 3
CEILING SPEAKERS	TBD	TBD	OWNER FURNISHED, CONTRACTOR INSTALLED	
SECURITY CAMERAS	TBD	TBD	OWNER FURNISHED, CONTRACTOR INSTALLED	
KEYCARD READERS	TBD	TBD	CONTRACTOR FURNISHED & INSTALLED	SYSTEM TO BE COORDINATED WITH OWNER'S IT REQUIREMENTS
FREE-STANDING PRINTER	TBD	TBD	OWNER FURNISHED, OWNER INSTALLED	REQUIRED CLEAR SPACE TO BE VERIFIED

NOTES - FINISH SCHEDULE

NOTES:

1. COORDINATE ALL CALL-OUTS WITH PLANS AND INTERIOR ELEVATIONS
2. ALL EXPOSED GYPSUM BOARD TO BE FINISHED PER GA-214-96 LEVEL 4. (LEVEL 3 AT UTILITY AND STORAGE ROOMS)
3. ALL GYPSUM BOARD SURFACES TO BE PAINTED PER SCHEDULE AND INTERIOR ELEVATIONS
4. ALL EXPOSED STEEL STRUCTURE TO BE PAINTED TO MATCH (MP-1)

ABBREVIATIONS:

SFS: STOREFRONT SYSTEM
CWS: CURTAINWALL SYSTEM
AFF: ABOVE FINISH FLOOR

MATERIALS:

(PC-1) POLISHED INTERIOR CONCRETE
(CON-1) SAND FINISHED EXTERIOR CONCRETE
(CON-2) NON-POLISHED INTERIOR CONCRETE W/ (TR-2) COATING

(CMU-1) GROUND FACE CMU VENEER (EXTERIOR) W/ (TR-1) COATING
(CMU-2) GROUND FACE CMU VENEER (INTERIOR)

(MTL-1) METAL STRUCTURE & FABRICATIONS - PAINTED TO MATCH (MP-1)
(MTL-2) METAL CLADDING & FLASHING - PREFINISHED
(MP-1) METAL PANEL SYSTEM

(WD-1) LINEAR WOOD CEILING SYSTEM (EXTERIOR)
(WD-2) LINEAR WOOD CEILING WITH ACOUSTIC INSULATION (INTERIOR)
(WD-3) LINEAR WOOD CEILING WITH ACOUSTIC INSULATION (INTERIOR) ACCESS GRILLES PER SYSTEM WHERE REQUIRED

(WDC-1) WOOD CASEWORK

(TL-1) CERAMIC WALL TILE
(FRP-1) FIBER-REINFORCED WALL PANEL

(P-1) PAINT - COLOR 1 (BENJAMIN MOORE OC-17, WHITE DOVE)
(P-2) PAINT - COLOR 2 (NOT USED)
(P-3) EPOXY PAINT - COLOR 1 (BENJAMIN MOORE OC-17, WHITE DOVE)

(SS-1) SOLID SURFACE COUNTERTOP - 3CM
(SS-2) SOLID SURFACE BACKSPLASH - 2CM

(CPT-1) CARPET TILE 1 (WALK-OFF MAT)
(CPT-2) CARPET TILE 2 (OFFICES & STAFF)
(CPT-3) CARPET TILE 3 (PUBLIC LOUNGE)

(WB-1) WALL BASE : 4" MDF - SURFACE MOUNTED
(RB-1) RESILIENT WALL BASE : 4" COLOR TBD

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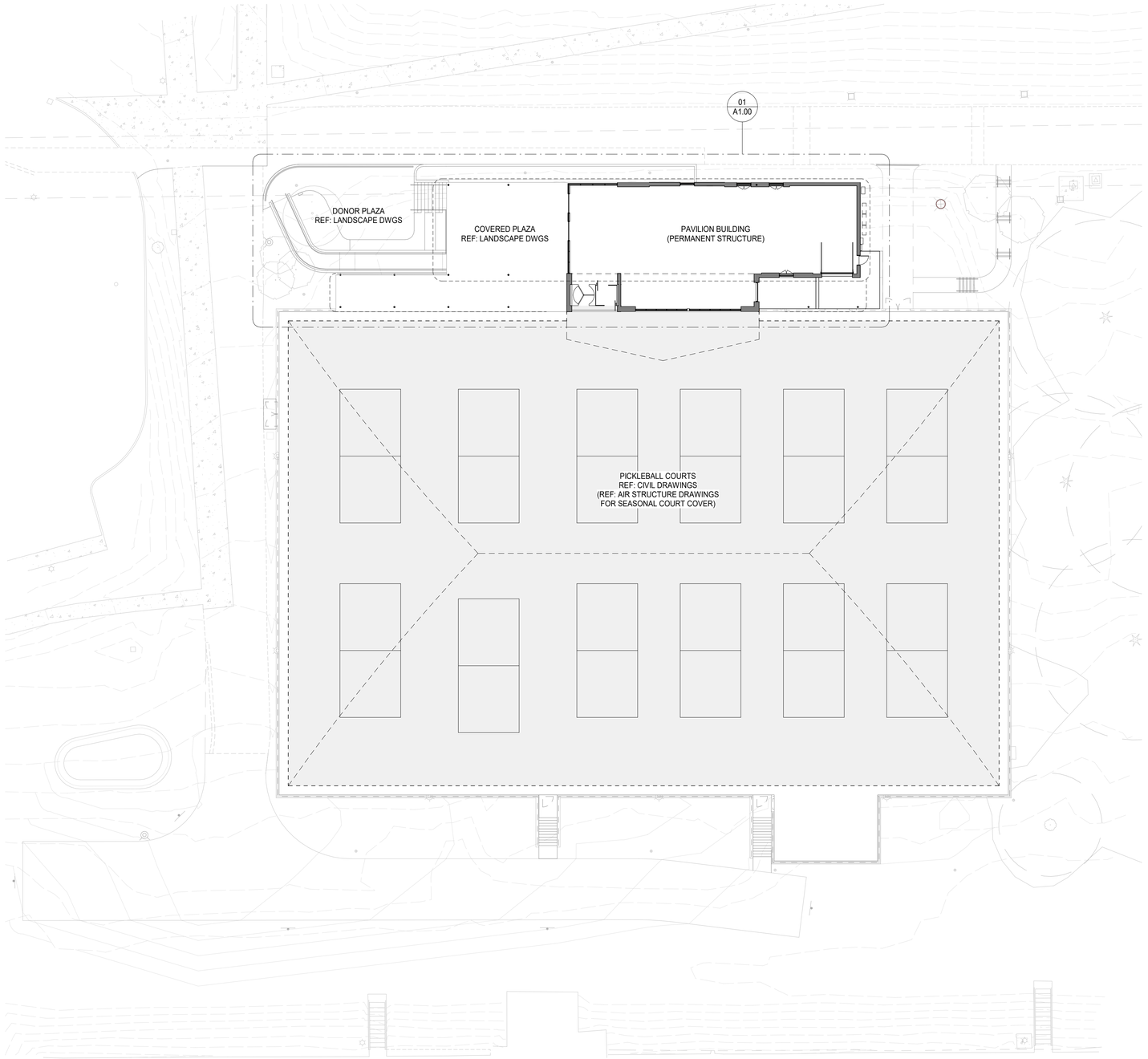
FINISH SCHEDULE

A0.04



01 **ARCHITECTURAL SITE DIAGRAM**
1" = 20'-0"

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SITE DIAGRAM

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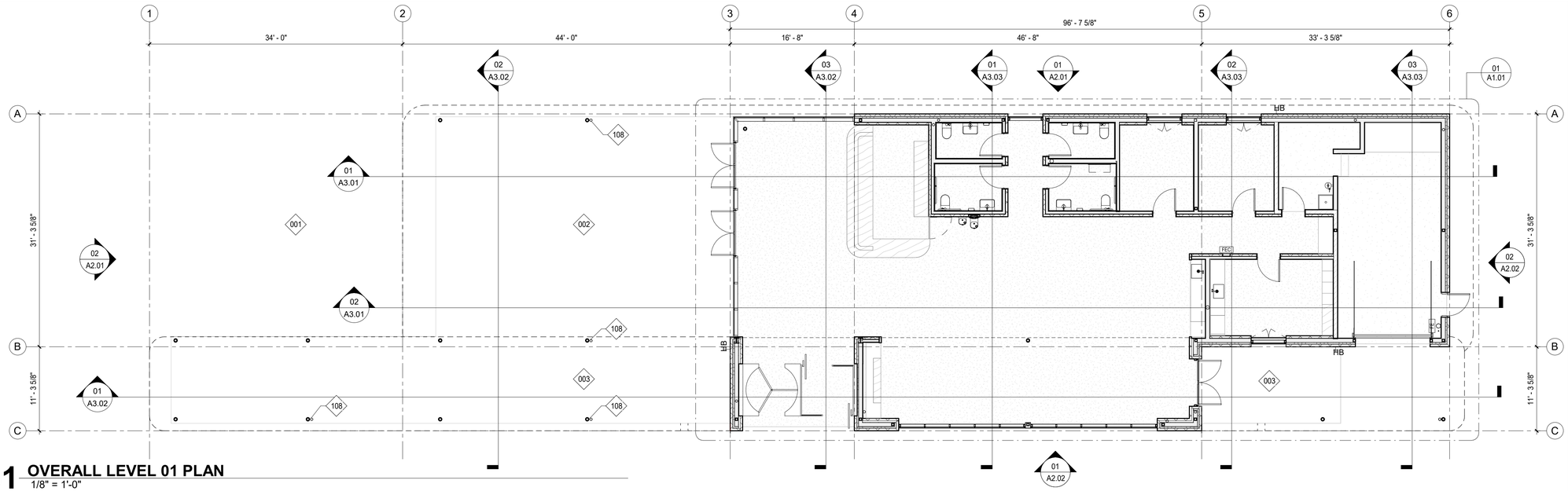

01 OVERALL LEVEL 01 PLAN

1/8" = 1'-0"

02 OVERALL CEILING PLAN

1/8" = 1'-0"

GENERAL NOTES - FLOOR PLAN

A. CONTRACTOR IS RESPONSIBLE FOR ALL CODE REQUIRED WORK NOT SHOWN ON THIS DRAWING.

B. INTERIOR PARTITION DIMENSIONS ARE GIVEN TO FACE OF STUDS (FOS) UNLESS OTHERWISE NOTED. CLEAR DIMENSIONS (NOTED 'CLR') AND ALIGNMENT NOTES ARE FACE OF FINISH (NOTED: FOF) TO FACE OF FINISH AND MUST BE MAINTAINED AS SHOWN.

C. DIMENSIONS FOR ACCESSIBLE FIXTURES AND ACCESS TO FIXTURES SHALL BE MEASURED FROM FACE OF WALL FINISH

D. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO BEGINNING WORK.

E. ALL INTERIOR WALLS. PARTITIONS AND COLUMNS TO RECEIVE FINISH- SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE.

F. CONTRACTOR TO PROVIDE SOLID WALL BLOCKING BEHIND ALL BATHROOM ACCESSORIES, CABINETRY/CASEWORK, FIRE EXTIGUISHER CABINETS, FIXTURES, EQUIPMENT, ETC...

G. ALL INTERIOR FLOOR DRAINS TO HAVE A MINIMUM OF 1/8" PER FOOT SLOPE TO THE DRAINS. REVIEW ALL DRAIN ELEVATIONS WITH ARCHITECT PRIOR TO SETTING DRAINS AND POURING CONCRETE

SHEET KEYNOTES

KEYNOTE	TEXT
001	DONOR PLAZA. REF: LANDSCAPE DRAWINGS
002	EXTERIOR ENTRY PLAZA. REF: LANDSCAPE DRAWINGS FOR HARDSCAPE
003	COVERED EXTERIOR AREA. REF: LANDSCAPE DRAWINGS FOR HARDSCAPE
108	PRIMARY ROOF DRAIN LEADER LOCATION. COORDINATE WITH PLUMBING AND CIVIL.

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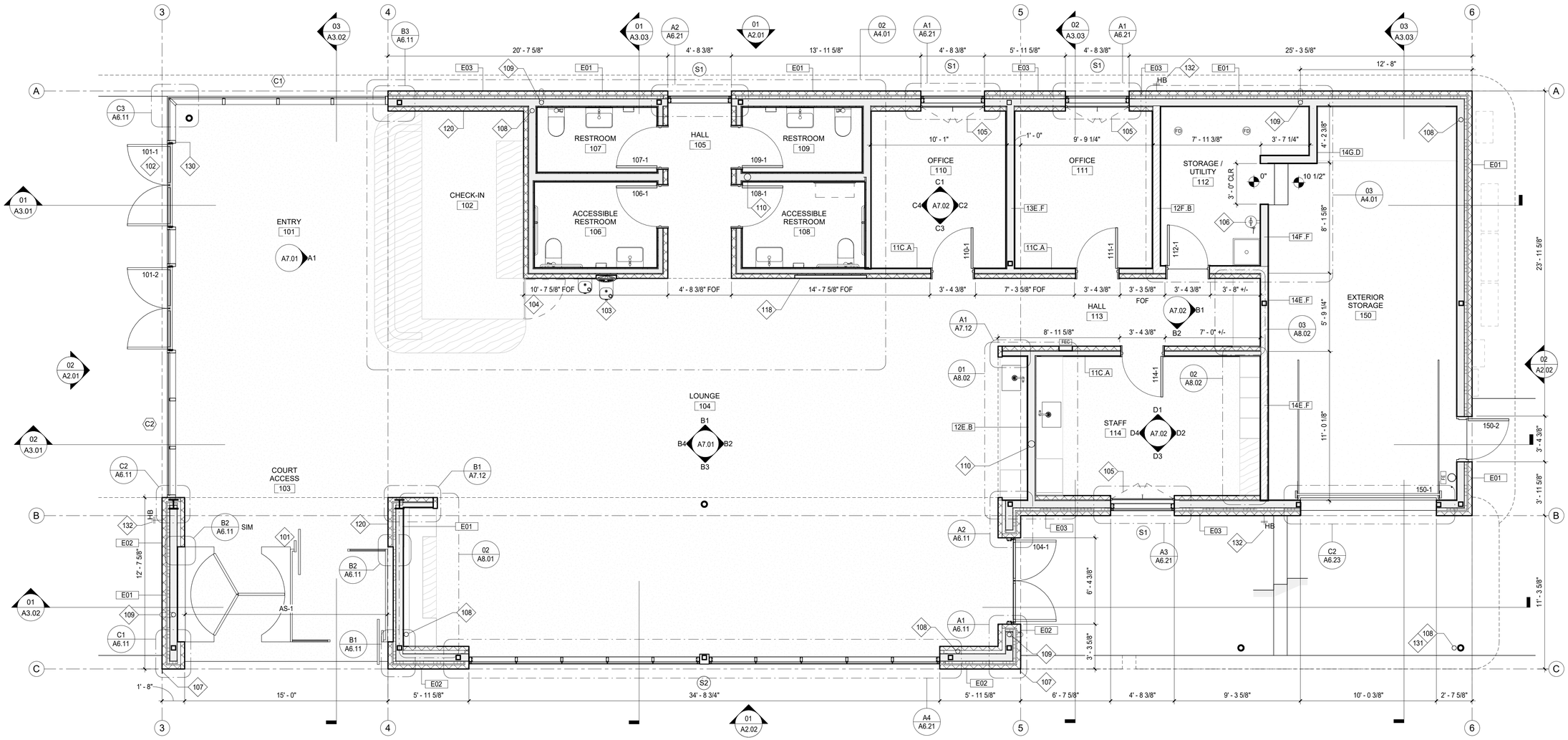
OVERALL PAVILION PLANS

A1.00



01 LEVEL 01 FLOOR PLAN

1/4" = 1'-0"

GENERAL NOTES - FLOOR PLAN

A. CONTRACTOR IS RESPONSIBLE FOR ALL CODE REQUIRED WORK NOT SHOWN ON THIS DRAWING.

B. INTERIOR PARTITION DIMENSIONS ARE GIVEN TO FACE OF STUDS (FOS) UNLESS OTHERWISE NOTED. CLEAR DIMENSIONS (NOTED 'CLR') AND ALIGNMENT NOTES ARE FACE OF FINISH (NOTED: FOF) TO FACE OF FINISH AND MUST BE MAINTAINED AS SHOWN.

C. DIMENSIONS FOR ACCESSIBLE FIXTURES AND ACCESS TO FIXTURES SHALL BE MEASURED FROM FACE OF WALL FINISH

D. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO BEGINNING WORK.

E. ALL INTERIOR WALLS. PARTITIONS AND COLUMNS TO RECEIVE FINISH- SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE.

F. CONTRACTOR TO PROVIDE SOLID WALL BLOCKING BEHIND ALL BATHROOM ACCESSORIES, CABINETRY/CASEWORK, FIRE EXTIGUISHER CABINETS, FIXTURES, EQUIPMENT, ETC...

G. ALL INTERIOR FLOOR DRAINS TO HAVE A MINIMUM OF 1/8" PER FOOT SLOPE TO THE DRAINS. REVIEW ALL DRAIN ELEVATIONS WITH ARCHITECT PRIOR TO SETTING DRAINS AND POURING CONCRETE

SHEET KEYNOTES

KEYNOTE	TEXT
101	ENTRY UNIT PROVIDED BY AIR STRUCTURE SUPPLIER, INSTALLED BY CONTRACTOR. PAINT TO MATCH MTL-1
102	ADA PUSH-BUTTON DOOR OPERATOR AT NORTH LEAF OF ENTRY DOOR
103	HIGH-LOW WATER FOUNTAIN WITH BOTTLE FILLER
104	OPERABLE SCREEN WITH FIXED SCREEN TO CEILING ABOVE. NO LATCH AT OPERABLE SCREEN. WESTERN HEMLOCK WOOD SLATS ON METAL FRAME. REF: DETAILS.
105	OPERABLE WINDOW SCREEN. WESTERN HEMLOCK WOOD SLATS ON METAL FRAME. POWDER COAT TO MATCH MTL-1. REF: DETAILS.
106	WALL-MOUNTED EYE WASH STATION
107	CONTINUOUS GALVANIZED STEEL ANGLE FOR ATTACHMENT OF AIR STRUCTURE. SIZE AND ATTACHMENT PER DETAILS AND STRUCTURAL. PAINT TO MATCH MTL-1
108	PRIMARY ROOF DRAIN LEADER LOCATION. COORDINATE WITH PLUMBING AND CIVIL.
109	OVERFLOW ROOF DRAIN LEADER WITH NOZZLE TO EXTERIOR. NOZZLE TO BE CENTERED ON EXTERIOR CMU VENEER.
110	6" SUBSLAB SOIL EXHAUST SYSTEM DUCT PER OSSC 1811.2. TERMINATE 12" MIN ABOVE ROOF. 10'-0" MINIMUM CLEARANCE TO ANY AIR INTAKE.

SHEET KEYNOTES

KEYNOTE	TEXT
118	RECESSED TACKBOARD PER DETAILS. ALIGN WITH CMU LAYOUT AS SHOWN
120	WALL-MOUNTED TV MONITOR / INFORMATION DISPLAY. RECESSED MEDIA BOX SET INTO WALL WITH POWER/DATA CONNECTIONS. COORDINATE LOCATION WITH OWNER AND ARCHITECT
130	JAMB-MOUNTED ADA PUSH-BUTTON. CONFIRM LOCATION WITH ARCHITECT
131	36" TALL STEEL DOWNSPOUT GUARD. FINISH TO MATCH MTL-1
132	RECESSED EXTERIOR HOSE BIBB. REF: PLUMBING. ADJUST LOCATION AS REQUIRED TO BE CENTERED ON CMU VENEER

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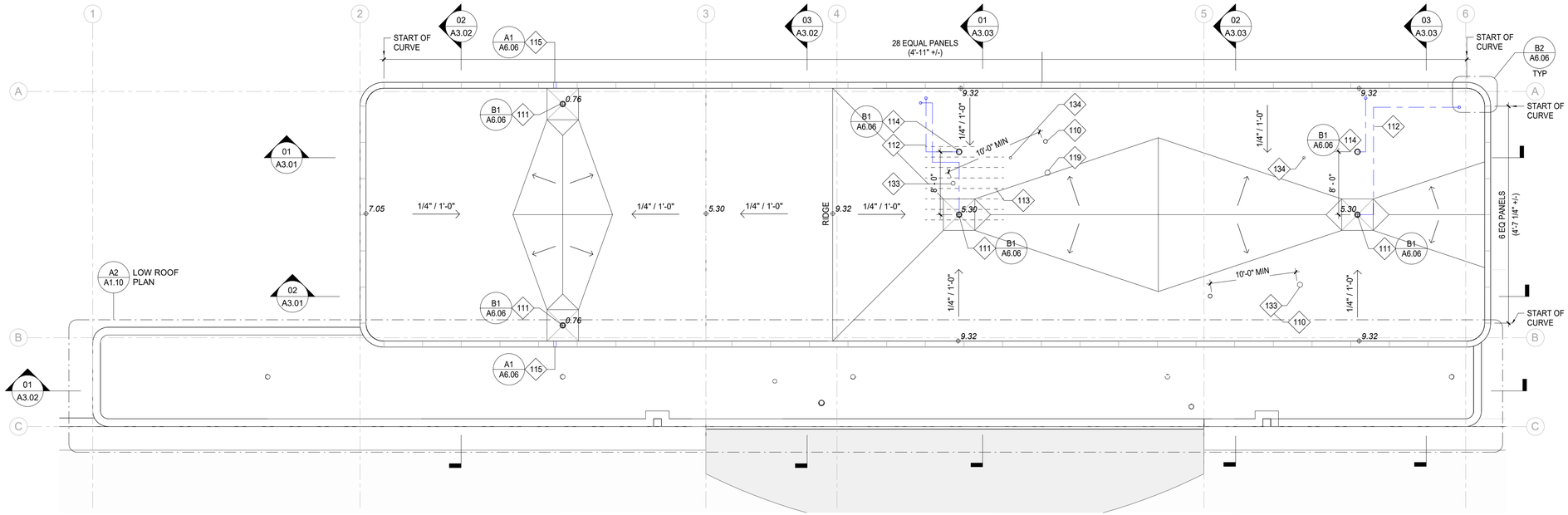
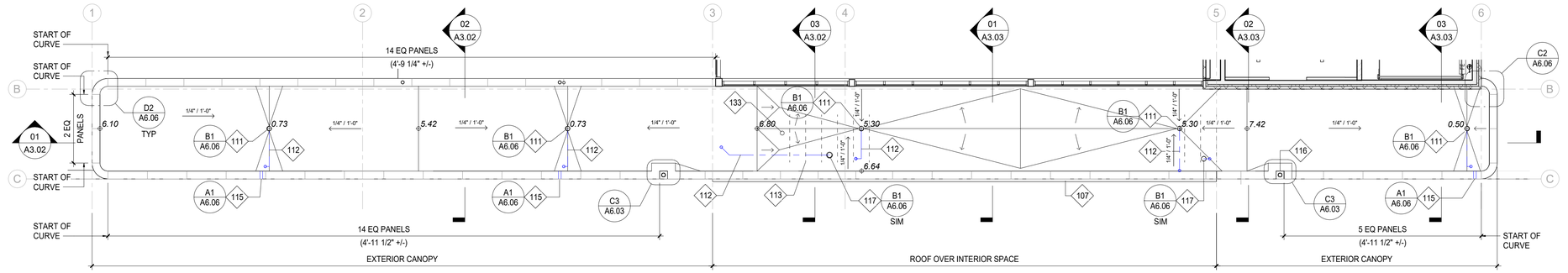
FLOOR PLAN

A1.01



A1 ROOF PLAN
1/8" = 1'-0"



A2 LOW ROOF PLAN
1/8" = 1'-0"

GENERAL NOTES - ROOF PLAN

A. 5.30" REPRESENTS THE R-30 ASSEMBLY THICKNESS. ALL TOP OF INSULATION ELEVATIONS AND CRICKET DIMENSIONS/ANGLES PROVIDED FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR CALCULATING ALL ROOF ELEVATIONS FOR ROOF SLOPES INDICATED.

B. FALL PROTECTION ROOF ANCHORS TO BE PROVIDED VIA DELEGATED DESIGN / DEFERRED SUBMITTAL. ASSUME 18 TOTAL PERMANENT ANCHORS. ANCHOR STYLE TO BE DETERMINED, MAXIMUM 8" HEIGHT ABOVE ROOF SURFACE. LOCATIONS TO BE COORDINATED WITH ARCHITECT AND BUILDING STRUCTURAL ENGINEER.

SHEET KEYNOTES

KEYNOTE	TEXT
107	CONTINUOUS GALVANIZED STEEL ANGLE FOR ATTACHMENT OF AIR STRUCTURE. SIZE AND ATTACHMENT PER DETAILS AND STRUCTURAL. PAINT TO MATCH MTL-1
110	6" SUBSLAB SOIL EXHAUST SYSTEM DUCT PER OSSC 1811.2. TERMINATE 12" MIN ABOVE ROOF. 10'-0" MINIMUM CLEARANCE TO ANY AIR INTAKE.
111	PRIMARY ROOF DRAIN WITH RAIN WATER LEADER BELOW
112	APPROXIMATE ROUTE OF ROOF DRAIN LEADER BELOW ROOF, TO BE COORDINATED BY CONTRACTOR. ALL PIPING TO BE CONCEALED ABOVE CEILING. LOCATIONS AS NOTED ON FLOOR PLANS. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION AS REQUIRED.
113	DASHED LINE INDICATE ROOF FRAMING MEMBERS BELOW. SHOWN FOR COORDINATION WITH PROPOSED ROOF DRAIN LOCATIONS
114	OVERFLOW ROOF DRAIN AT 2" MIN ABOVE PRIMARY DRAIN ELEVATION. ROOF DRAIN LEADER BELOW TO DAYLIGHT TERMINATION PER PLUMBING. LOCATIONS AS NOTED ON FLOOR PLANS AND ELEVATIONS.
115	OVERFLOW THROUGH-WALL SCUPPER AT 2" MIN / 4" MAX ABOVE ADJACENT PRIMARY DRAIN ELEVATION
116	EXTERIOR COURT LIGHTING POLE. REF: ELECTRICAL.
117	OVERFLOW ROOF DRAIN WITH WATER DAM. TOP OF DAM AT 2" MIN / 4" MAX ABOVE ADJACENT PRIMARY DRAIN ELEVATION

SHEET KEYNOTES

KEYNOTE	TEXT
119	MECHANICAL EXHAUST VENT. REF: MECHANICAL DRAWINGS. COORDINATE LOCATIONS WITH ROOF FRAMING BELOW AS REQUIRED
133	OUTSIDE AIR INTAKE. REF: MECHANICAL DRAWINGS. COORDINATE LOCATIONS WITH ROOF FRAMING BELOW AS REQUIRED
134	PLUMBING VENT THROUGH ROOF. REF: PLUMBING DRAWINGS

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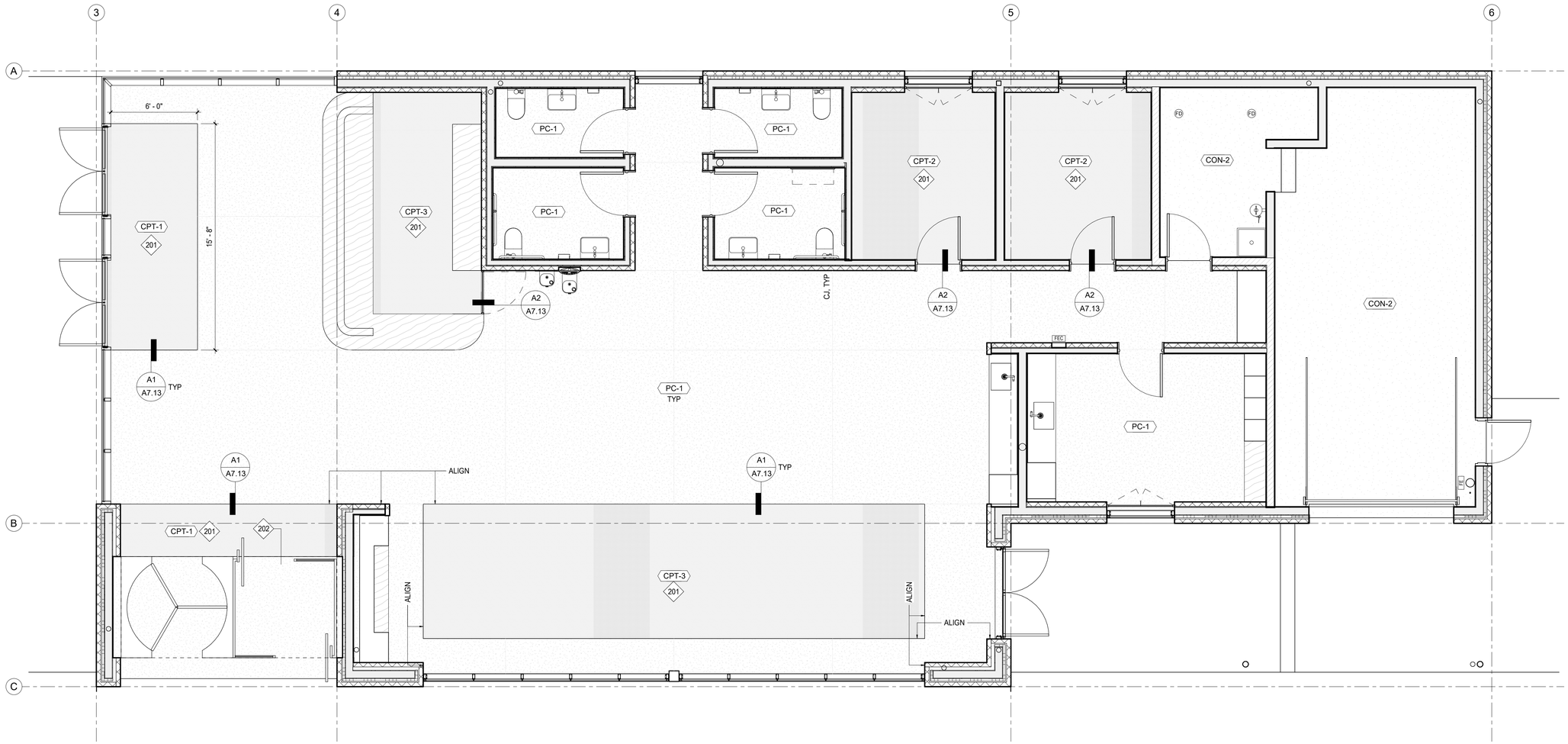
ROOF PLAN

A1.10



01 LEVEL 01 FINISH PLAN

1/4" = 1'-0"

INTERIOR MATERIALS

PC-1	POLISHED INTERIOR CONCRETE
CON-2	NON-POLISHED INTERIOR CONCRETE W/ TR-2 COATING
CMU-2	GROUND FACE CMU VENEER (INTERIOR)
MTL-1	METAL STRUCTURE & FABRICATIONS - PAINTED
MTL-2	METAL CLADDING & FLASHING - PREFINISHED
MP-1	METAL PANEL SYSTEM
WD-2	LINEAR WOOD CEILING WITH ACOUSTIC INSULATION
WDC-1	WOOD CASEWORK
P-1	PAINT - COLOR 1
P-2	PAINT - COLOR 2
P-3	EPOXY PAINT - COLOR 1
SS-1	SOLID SURFACE COUNTERTOP - 3CM
SS-2	SOLID SURFACE BACKSPLASH - 2CM
CPT-1	CARPET TILE 1
CPT-2	CARPET TILE 2
CPT-3	CARPET TILE 3
WB-1	WALL BASE : 4" MDF - SURFACE MOUNTED
RB-1	RESILIENT WALL BASE : 4"
TL-1	CERAMIC WALL TILE

GENERAL NOTES - FLOOR FINISH PLAN

A. 'CJ' = TOOLED SLAB JOINT IN CONCRETE SLAB ON GRADE. ALIGN W/ CENTERLINE OF MULLION, CENTERLINE OF DOOR, CORNER OF WALL OR AS SHOWN OR DIMENSIONED. LAYOUT PROVIDED FOR REFERENCE ONLY. CONTRACTOR TO PROPOSE LAYOUT AND CONFIRM VIA SUBMITTALS.

B. COORINATE EXTENTS OF FLOOR FINISHES WITH INTERIOR DETAILS. DETAILS TO TAKE PRECEDENT.

SHEET KEYNOTES

KEYNOTE	TEXT
201	CONCRETE FLOORS TO BE CONTINUOUSLY FINISHED BENEATH CARPETTED AREAS
202	SLAB REQUIREMENTS AT AIR STRUCTURE ENTRY UNIT TO BE COORDINATED WITH AIR STRUCTURE SUPPLIER

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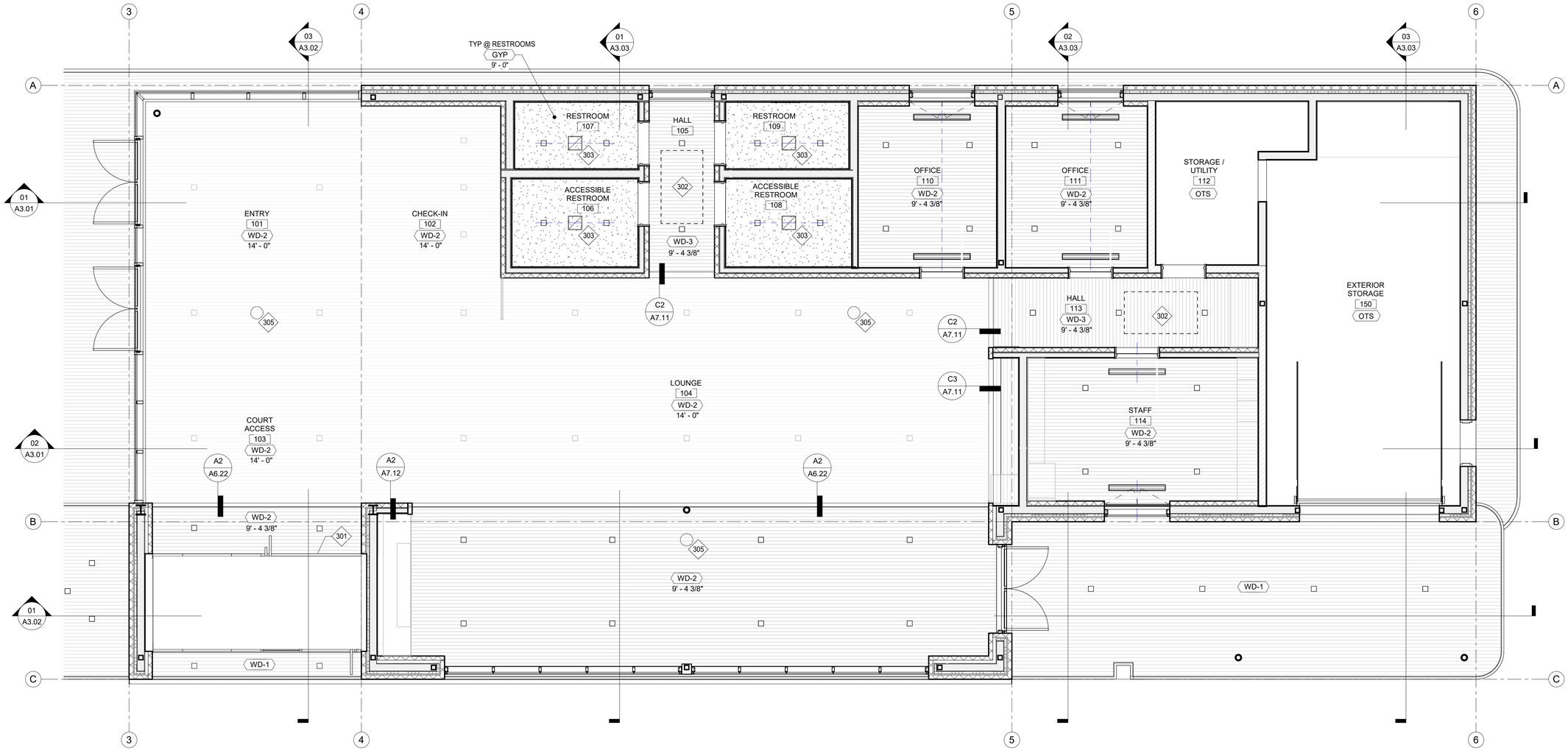
FLOOR FINISH PLAN

A1.21



01 LEVEL 01 CEILING PLAN

1/4" = 1'-0"

GENERAL NOTES - CEILING PLAN

A. CONTRACTOR IS RESPONSIBLE FOR ALL CODE REQUIRED WORK NOT SHOWN ON THIS DRAWING.

B. CEILING SYSTEMS TO BE CENTERED IN ROOM/SPACE AS OCCURS, UNLESS NOTED OR DIMENSIONED OTHERWISE.

C. LIGHTING FIXTURES SHOWN FOR REFERENCE. REFERENCE ELECTRICAL DRAWINGS AND SPECIFICATIONS.

D. RECESSED LUMINAIRES INSTALLED IN THE BUILDING THERMAL ENVELOPE TO BE SEALED TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES. ALL RECESSED LUMINAIRES TO BE IC-RATED AND LABELED AS MEETING ASTM E83. ALL RECESSED LUMINAIRES TO BE SEALED WITH A GASKET OR CAULK BETWEEN THE HOUSING AND INTERIOR WALL OR CEILING COVERING.

E. DIMENSIONS TO LIGHT FIXTURES AND OTHER CEILING ELEMENTS PROVIDED FROM FACE OF ADJACENT FINISHES.

F. REFERENCE SHEET A7.12 FOR RELATIONSHIPS BETWEEN CEILING WOOD SLATS AND M/E/P FIXTURES. DIMENSIONS PROVIDED ON PLAN TO BE ADJUSTED AS REQUIRED TO ACHIEVE THE DETAILED ALIGNMENTS WITH THE WOOD SLATS. MAINTAIN ALIGNMENTS WITH ADJACENT FIXTURES AS SHOWN.

CEILING PLAN LEGEND

- WD-1 — LINEAR WOOD CEILING SYSTEM DIRECTLY ATTACHED PER DETAILS (EXTERIOR)
- WD-2 — LINEAR WOOD CEILING WITH ACOUSTIC INSULATION SUSPENDED CEILING SYSTEM (INTERIOR)
- WD-3 — LINEAR WOOD CEILING WITH ACOUSTIC INSULATION SUSPENDED CEILING SYSTEM (INTERIOR) ACCESS GRILLES PER SYSTEM WHERE REQUIRED
- GYP — GYPSUM BOARD CEILING ON SUSPENSION SYSTEM
  - P-3 AT RESTROOM CEILINGS
  - P-1 ALL OTHER LOCATIONS
- OTS — OPEN TO STRUCTURE ABOVE (NO CEILING)

SHEET KEYNOTES

KEYNOTE	TEXT
301	CONCEALED ACCESS DOOR TO BE PROVIDED IN FACE OF SOFFIT FOR ACCESS TO MECHANICAL UNIT ABOVE ENTRY UNIT. SEE ELEVATIONS. REF: MECHANICAL DRAWINGS
302	63"x36" ACCESS PANEL PER WOOD CEILING SYSTEM. CENTER IN SPACE AS SHOWN. REF: MECHANICAL DRAWINGS
303	EXHAUST FAN, REF: MECHANICAL DRAWINGS. ALIGNED AND CENTERED BETWEEN LIGHTS AS SHOWN
305	RECESSED SPEAKER LOCATION, OWNER-FURNISHED, CONTRACTOR-INSTALLED. ALIGNED AND CENTERED BETWEEN LIGHTS AS SHOWN

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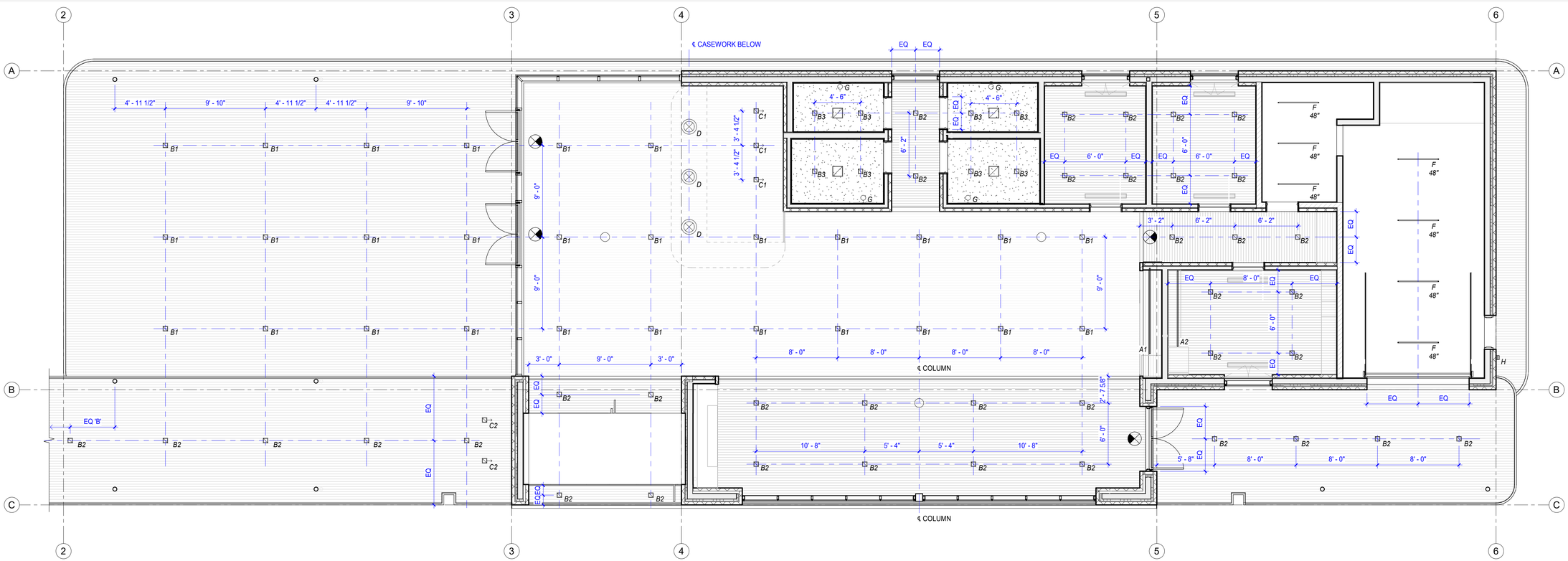
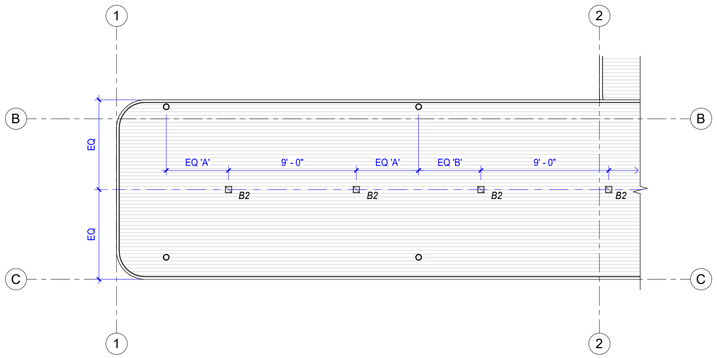
REFLECTED CEILING PLAN

A1.31



01 LEVEL 01 LIGHTING LAYOUT
3/16" = 1'-0"



01.1 LEVEL 01 LIGHTING LAYOUT CONTINUED
3/16" = 1'-0"

GENERAL NOTES - CEILING PLAN

A. CONTRACTOR IS RESPONSIBLE FOR ALL CODE REQUIRED WORK NOT SHOWN ON THIS DRAWING.

B. CEILING SYSTEMS TO BE CENTERED IN ROOM/SPACE AS OCCURS, UNLESS NOTED OR DIMENSIONED OTHERWISE.

C. LIGHTING FIXTURES SHOWN FOR REFERENCE. REFERENCE ELECTRICAL DRAWINGS AND SPECIFICATIONS.

D. RECESSED LUMINAIRES INSTALLED IN THE BUILDING THERMAL ENVELOPE TO BE SEALED TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED AND UNCONDITIONED SPACES. ALL RECESSED LUMINAIRES TO BE IC-RATED AND LABELED AS MEETING ASTM E83. ALL RECESSED LUMINAIRES TO BE SEALED WITH A GASKET OR CAULK BETWEEN THE HOUSING AND INTERIOR WALL OR CEILING COVERING.

E. DIMENSIONS TO LIGHT FIXTURES AND OTHER CEILING ELEMENTS PROVIDED FROM FACE OF ADJACENT FINISHES.

F. REFERENCE SHEET A7.12 FOR RELATIONSHIPS BETWEEN CEILING WOOD SLATS AND M/E/P FIXTURES. DIMENSIONS PROVIDED ON PLAN TO BE ADJUSTED AS REQUIRED TO ACHIEVE THE DETAILED ALIGNMENTS WITH THE WOOD SLATS. MAINTAIN ALIGNMENTS WITH ADJACENT FIXTURES AS SHOWN.

LIGHTING FIXTURE LEGEND

FOR REFERENCE ONLY. SEE ELECTRICAL DRAWINGS FOR FIXTURE INFORMATION.

B1, B2	INTERIOR RECESSED LED DOWNLIGHT - PUBLIC
B2	INTERIOR RECESSED LED DOWNLIGHT - PRIVATE
B3	INTERIOR RECESSED LED DOWNLIGHT - RESTROOMS
C1	INTERIOR RECESSED LED WALL WASH
D	INTERIOR SUSPENDED PENDANT
A1/A2	INTERIOR UNDERCABINET LINEAR LIGHT
F	INTERIOR SUSPENDED UTILITY LIGHT
G	INTERIOR WALL-MOUNTED VANITY LIGHT
B1, B2	EXTERIOR RECESSED LED DOWNLIGHT
C2	EXTERIOR RECESSED LED WALL WASH
H	EXTERIOR WALL SCONCE
	ILLUMINATED EXIT SIGN

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PORTLAND, OREGON
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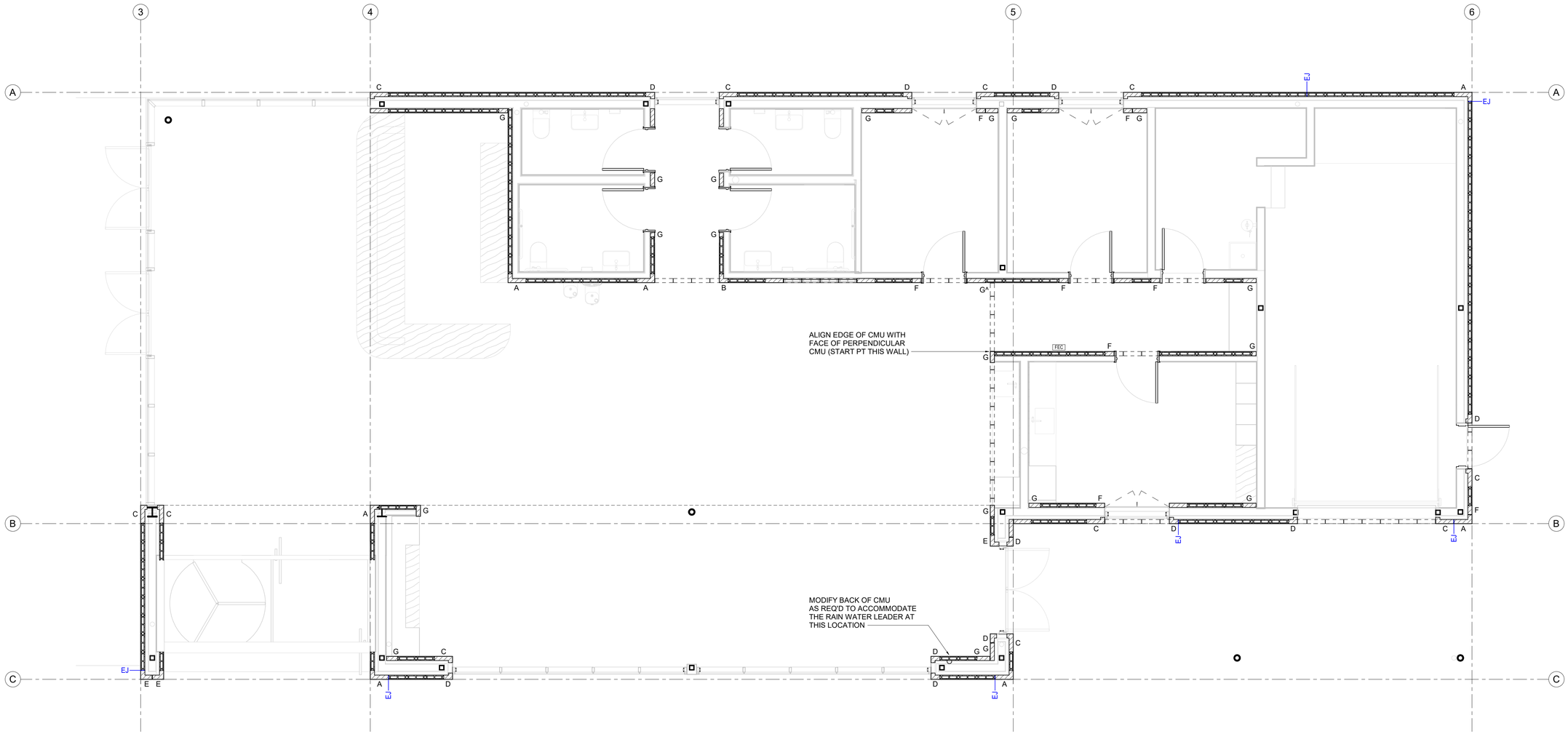
STATE OF OREGON

LIGHTING LAYOUT PLAN

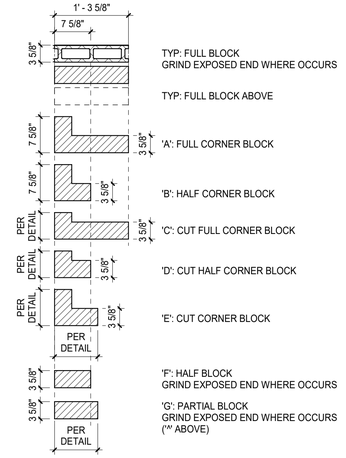
A1.32



01 CMU LAYOUT PLAN

1/4" = 1'-0"

CMU LAYOUT LEGEND



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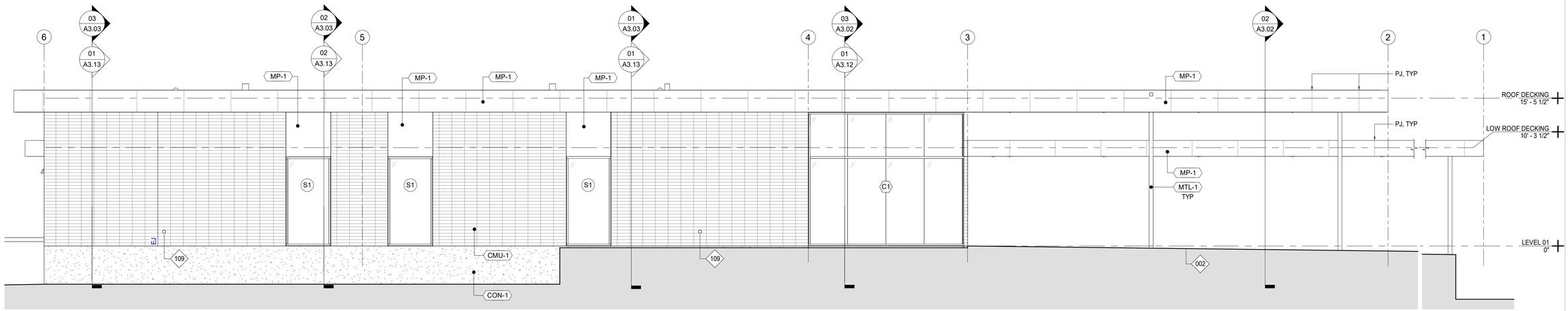
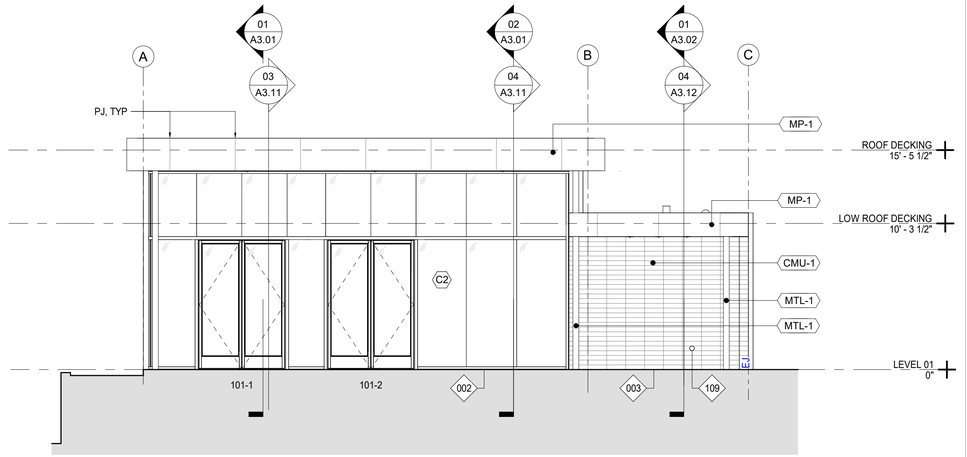
CMU LAYOUT PLAN

A1.51



01 NORTH EXTERIOR ELEVATION

3/16" = 1'-0"



02 WEST EXTERIOR ELEVATION

3/16" = 1'-0"

EXTERIOR MATERIALS

- CON-1 SAND FINISH CONCRETE (EXPOSED FOUNDATION WALLS)
- CMU-1 EXTERIOR GROUND FACE CMU VENEER, WITH TR-1 COATING
- MTL-1 METAL STRUCTURE & FABRICATIONS - PAINTED
- MP-1 METAL PANEL CLADDING - PREFINISHED
- WD-1 LINEAR WOOD CEILING SYSTEM

GENERAL NOTES - EXT. ELEVATIONS

A. CONTRACTOR IS RESPONSIBLE FOR ALL CODE REQUIRED WORK NOT SHOWN ON THIS DRAWING.

B. PARTITION DIMENSIONS ARE GIVEN TO FACE OF FRAMING UNLESS OTHERWISE NOTED. CLEAR DIMENSIONS (NOTED 'CLR') AND ALIGNMENT NOTES ARE FACE OF FINISH TO FACE OF FINISH.

C. DIMENSIONS FOR ACCESSIBLE FIXTURES AND ACCESS TO FIXTURES SHALL BE MEASURED FROM FACE OF WALL FINISH

D. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO BEGINNING WORK.

E. ALL INTERIOR WALLS, PARTITIONS AND COLUMNS TO RECEIVE FINISH- SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE.

F. CONTRACTOR TO PROVIDE SOLID WALL BLOCKING BEHIND ALL BATHROOM ACCESSORIES, CABINETRY/CASEWORK, FIRE EXTIGUISHER CABINETS, FIXTURES, EQUIPMENT, ETC...

G. T.C.= TOP OF CONCRETE CURB / STEM WALL - SEE WALL SECTIONS, COORDINATE W/ STRUCTURAL

J. THE AIR LEAKAGE OF WINDOW AND SLIDING OR SWINGING DOOR ASSEMBLIES THAT ARE PART OF THE BUILDING ENVELOPE TO BE DETERMINED IN ACCORDANCE WITH AAMA/WDMA/CSA 101/I.S.2/A440, OR NFRC 400 BY AN ACCREDITED, INDEPENDENT LABORATORY, AND LABELED AND CERTIFIED BY THE MANUFACTURER.

K. ENTRANCE DOORS AND REVOLVING DOORS TO BE TESTED FOR AIR LEAKAGE IN ACCORDANCE WITH ASTM E 283. FOR CURTAIN WALLS AND STOREFRONT GLAZING, THE MAXIMUM AIR LEAKAGE RATE IS 0.3 CUBIC FOOT PER MINUTE PER SQUARE FOOT OF FENESTRATION AREA. FOR COMMERCIAL GLAZED SWINGING ENTRANCE DOORS AND REVOLVING DOORS, THE MAXIMUM AIR LEAKAGE RATE IS 1.00 CFM/FT2 OF DOOR AREA.

L. 'EJ': MASONRY VENEER EXPANSION JOINT. SANDED SEALER WITH BACKER. SAND AND SEALANT TO MATCH MORTAR JOINT COLOR AND WIDTH. INSTALL PRIOR TO WATER REPELLENT COATING.

M. 'PJ': METAL PANEL JOINT. SEE ROOF PLAN AND INTERIOR ELEVATIONS FOR SPACING WHERE NOT INDICATED ON THIS DRAWING.

SHEET KEYNOTES

KEYNOTE	TEXT
002	EXTERIOR ENTRY PLAZA. REF: LANDSCAPE DRAWINGS FOR HARDSCAPE
003	COVERED EXTERIOR AREA. REF: LANDSCAPE DRAWINGS FOR HARDSCAPE
109	OVERFLOW ROOF DRAIN LEADER WITH NOZZLE TO EXTERIOR. NOZZLE TO BE CENTERED ON EXTERIOR CMU VENEER.

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PORTLAND, OREGON
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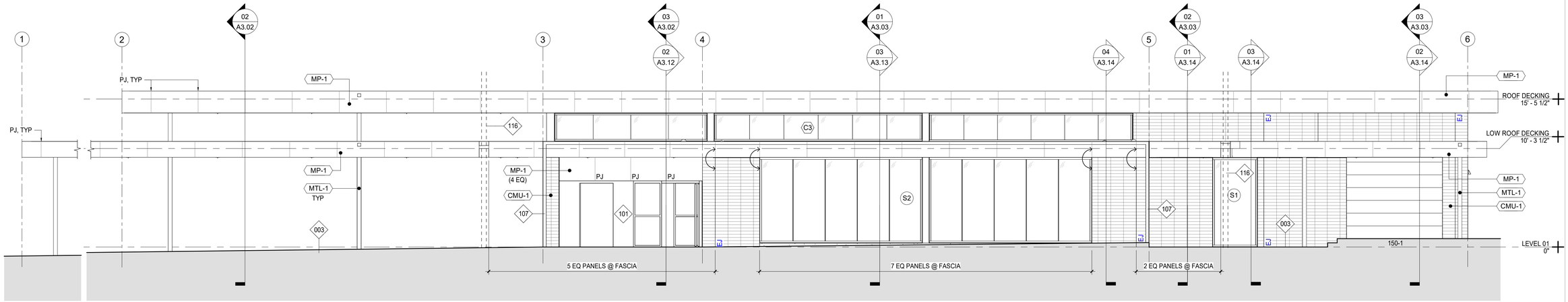
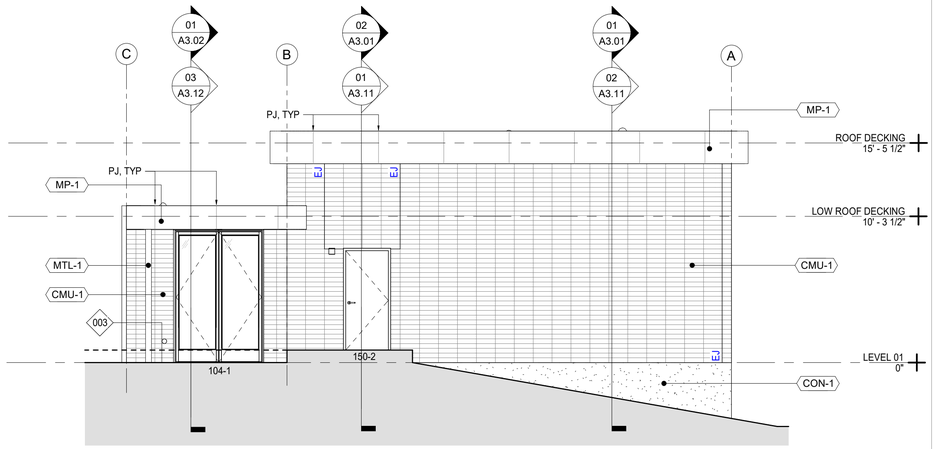
STATE OF OREGON

EXTERIOR ELEVATIONS

A2.01



01 SOUTH EXTERIOR ELEVATION
3/16" = 1'-0"



02 EAST EXTERIOR ELEVATION
3/16" = 1'-0"

EXTERIOR MATERIALS

- CON-1 SAND FINISH CONCRETE (EXPOSED FOUNDATION WALLS)
- CMU-1 EXTERIOR GROUND FACE CMU VENEER, WITH TR-1 COATING
- MTL-1 METAL STRUCTURE & FABRICATIONS - PAINTED
- MP-1 METAL PANEL CLADDING - PREFINISHED
- WD-1 LINEAR WOOD CEILING SYSTEM

GENERAL NOTES - EXT. ELEVATIONS

A. CONTRACTOR IS RESPONSIBLE FOR ALL CODE REQUIRED WORK NOT SHOWN ON THIS DRAWING.

B. PARTITION DIMENSIONS ARE GIVEN TO FACE OF FRAMING UNLESS OTHERWISE NOTED. CLEAR DIMENSIONS (NOTED 'CLR') AND ALIGNMENT NOTES ARE FACE OF FINISH TO FACE OF FINISH.

C. DIMENSIONS FOR ACCESSIBLE FIXTURES AND ACCESS TO FIXTURES SHALL BE MEASURED FROM FACE OF WALL FINISH

D. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO BEGINNING WORK.

E. ALL INTERIOR WALLS. PARTITIONS AND COLUMNS TO RECEIVE FINISH- SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE.

F. CONTRACTOR TO PROVIDE SOLID WALL BLOCKING BEHIND ALL BATHROOM ACCESSORIES, CABINETRY/CASEWORK, FIRE EXTIGUISHER CABINETS, FIXTURES, EQUIPMENT, ETC...

G. T.C.= TOP OF CONCRETE CURB / STEM WALL - SEE WALL SECTIONS, COORDINATE W/ STRUCTURAL

J. THE AIR LEAKAGE OF WINDOW AND SLIDING OR SWINGING DOOR ASSEMBLIES THAT ARE PART OF THE BUILDING ENVELOPE TO BE DETERMINED IN ACCORDANCE WITH AAMA/WDMA/CSA 101/I.S.2/A440, OR NFRC 400 BY AN ACCREDITED, INDEPENDENT LABORATORY, AND LABELED AND CERTIFIED BY THE MANUFACTURER.

K. ENTRANCE DOORS AND REVOLVING DOORS TO BE TESTED FOR AIR LEAKAGE IN ACCORDANCE WITH ASTM E 283. FOR CURTAIN WALLS AND STOREFRONT GLAZING, THE MAXIMUM AIR LEAKAGE RATE IS 0.3 CUBIC FOOT PER MINUTE PER SQUARE FOOT OF FENESTRATION AREA. FOR COMMERCIAL GLAZED SWINGING ENTRANCE DOORS AND REVOLVING DOORS, THE MAXIMUM AIR LEAKAGE RATE IS 1.00 CFM/FT2 OF DOOR AREA.

L. 'EJ': MASONRY VENEER EXPANSION JOINT. SANDED SEALER WITH BACKER. SAND AND SEALANT TO MATCH MORTAR JOINT COLOR AND WIDTH. INSTALL PRIOR TO WATER REPELLENT COATING.

M. 'PJ': METAL PANEL JOINT. SEE ROOF PLAN AND INTERIOR ELEVATIONS FOR SPACING WHERE NOT INDICATED ON THIS DRAWING.

SHEET KEYNOTES

KEYNOTE	TEXT
003	COVERED EXTERIOR AREA. REF: LANDSCAPE DRAWINGS FOR HARDSCAPE
101	ENTRY UNIT PROVIDED BY AIR STRUCTURE SUPPLIER, INSTALLED BY CONTRACTOR. PAINT TO MATCH MTL-1
107	CONTINUOUS GALVANIZED STEEL ANGLE FOR ATTACHMENT OF AIR STRUCTURE. SIZE AND ATTACHMENT PER DETAILS AND STRUCTURAL. PAINT TO MATCH MTL-1
116	EXTERIOR COURT LIGHTING POLE. REF: ELECTRICAL.

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PORTLAND, OREGON
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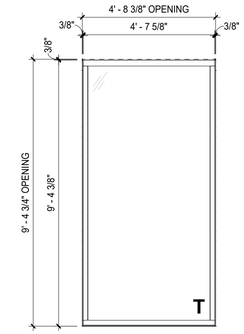
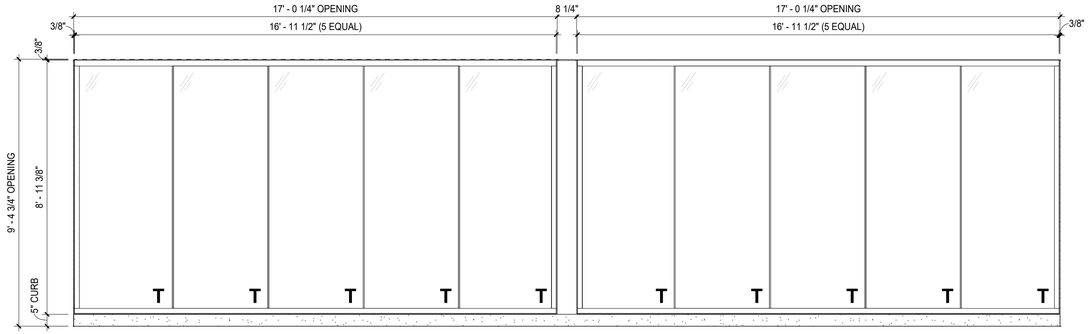
STATE OF OREGON

EXTERIOR ELEVATIONS

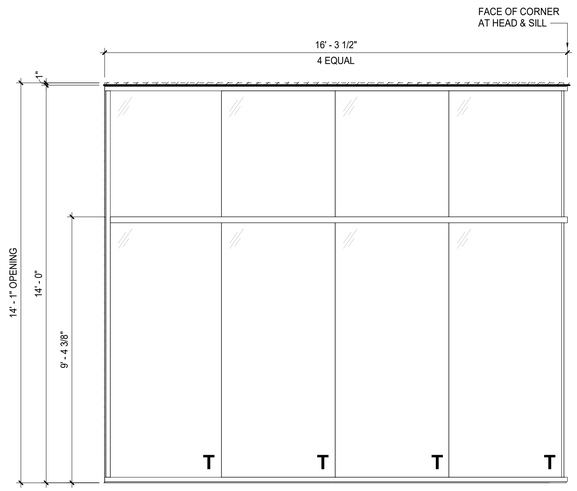
A2.02



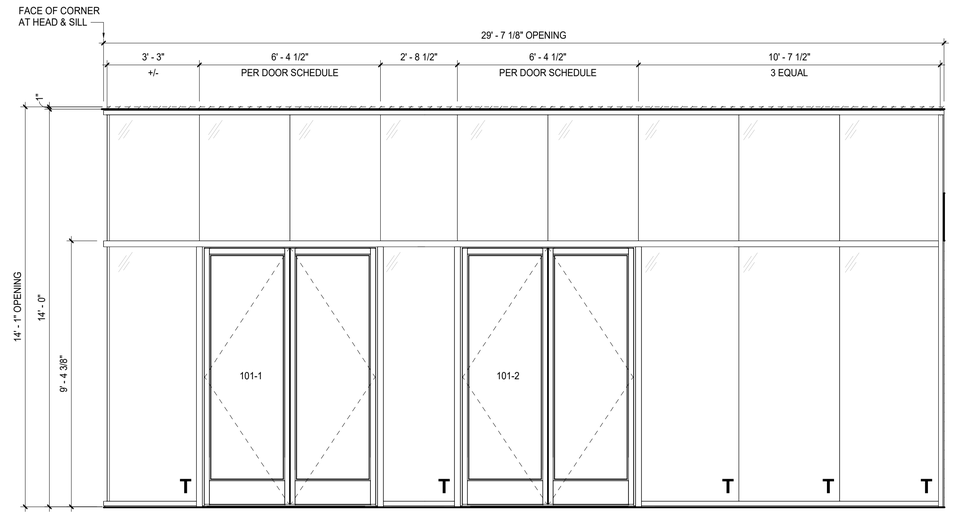
S1 STOREFRONT TYPE S1
3/8" = 1'-0"



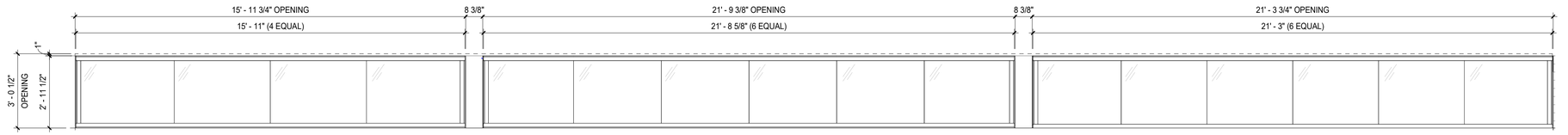
S2 STOREFRONT TYPE S2
3/8" = 1'-0"



C1 CURTAIN WALL TYPE C1
3/8" = 1'-0"



C2 CURTAIN WALL TYPE C2
3/8" = 1'-0"



C3 CURTAINWALL TYPE C3
3/8" = 1'-0"

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PORTLAND, OREGON
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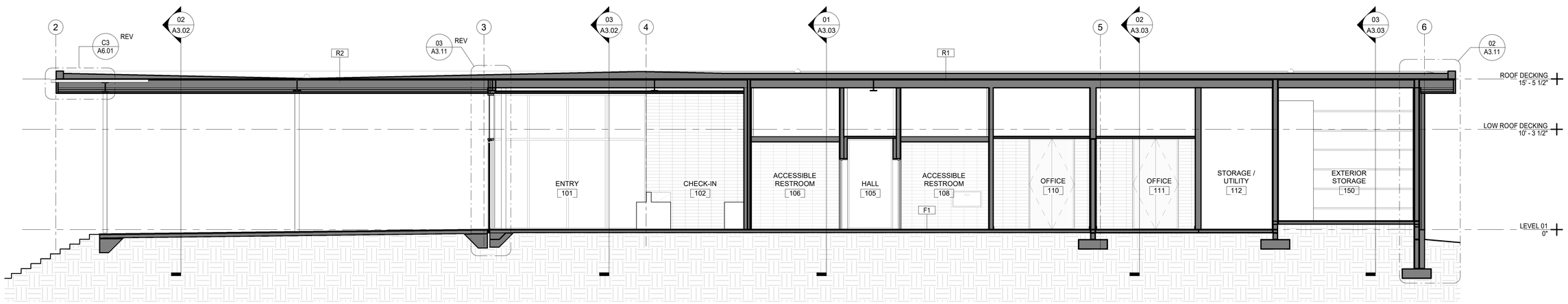
STATE OF OREGON

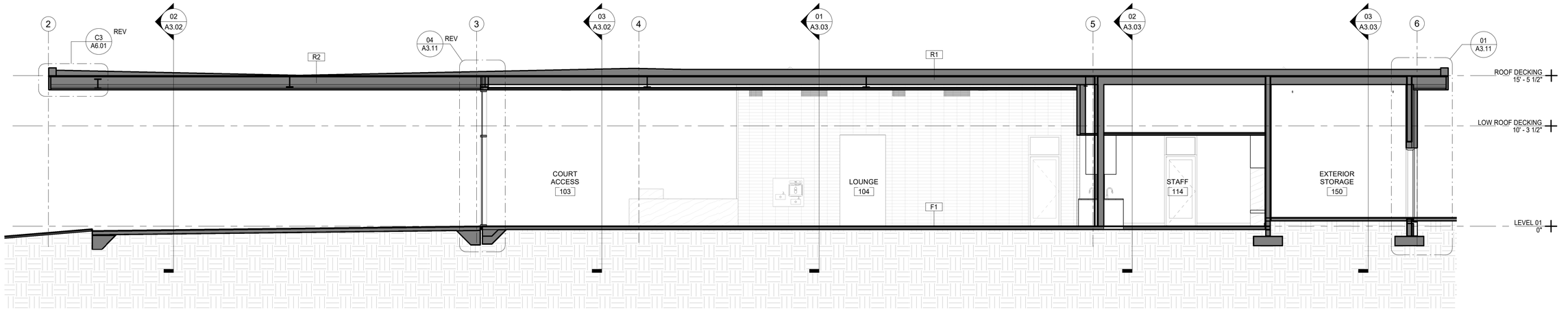
WINDOW TYPES

A2.11



01 EAST-WEST BUILDING SECTION 1

3/16" = 1'-0"



02 EAST-WEST BUILDING SECTION 2

3/16" = 1'-0"

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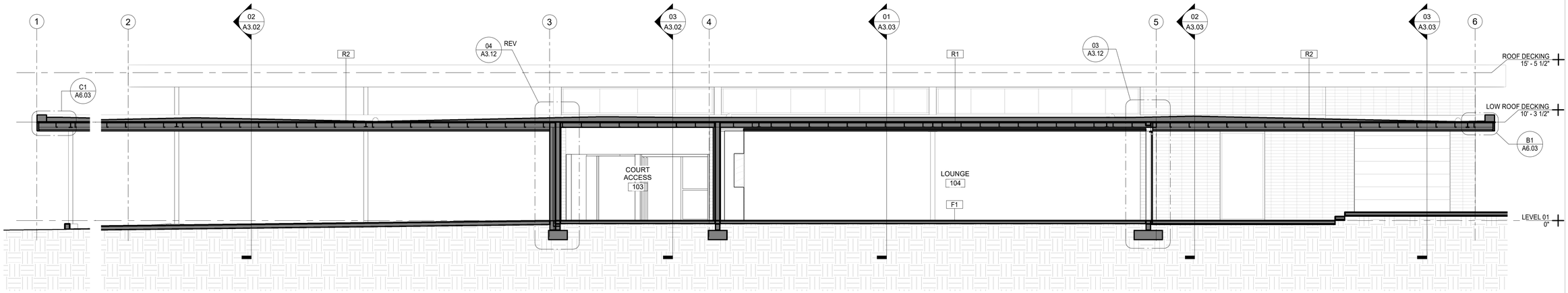
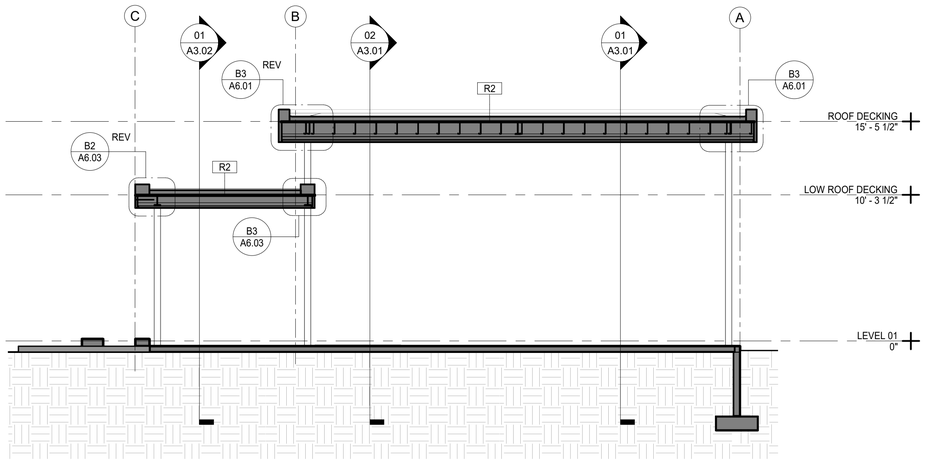
BUILDING SECTIONS

A3.01



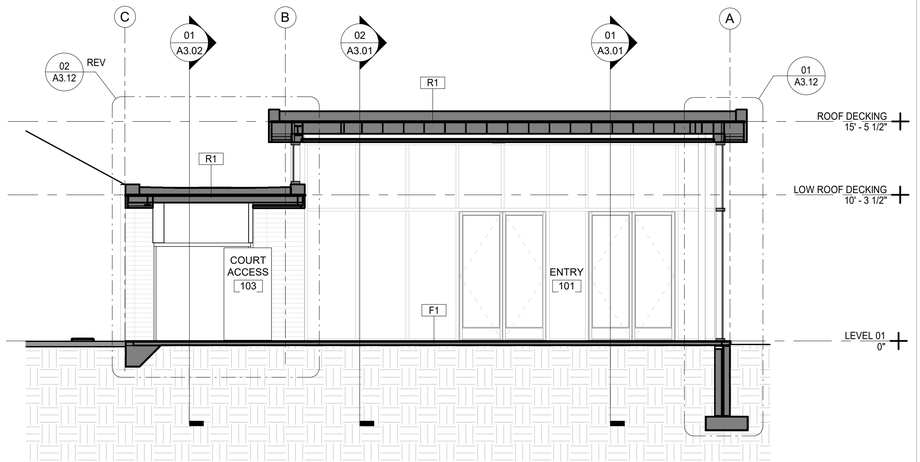
01 EAST-WEST BUILDING SECTION 3

3/16" = 1'-0"



02 NORTH-SOUTH BUILDING SECTION 1

3/16" = 1'-0"



03 NORTH-SOUTH BUILDING SECTION 2

3/16" = 1'-0"

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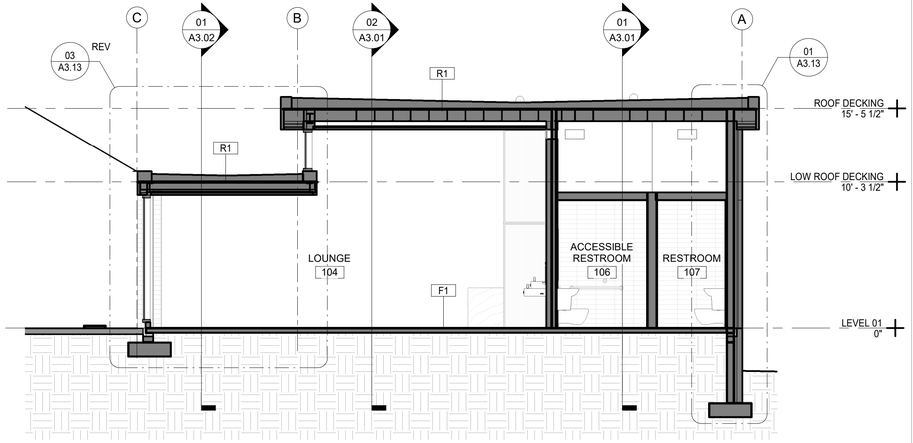
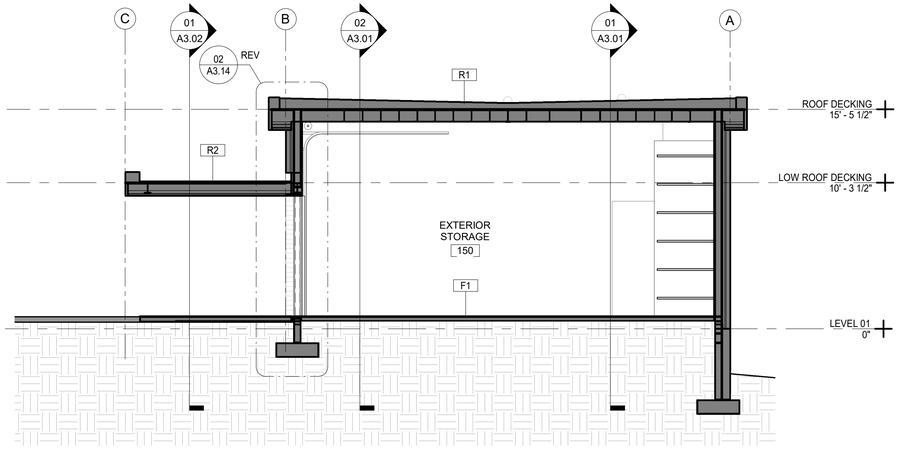
BUILDING SECTIONS

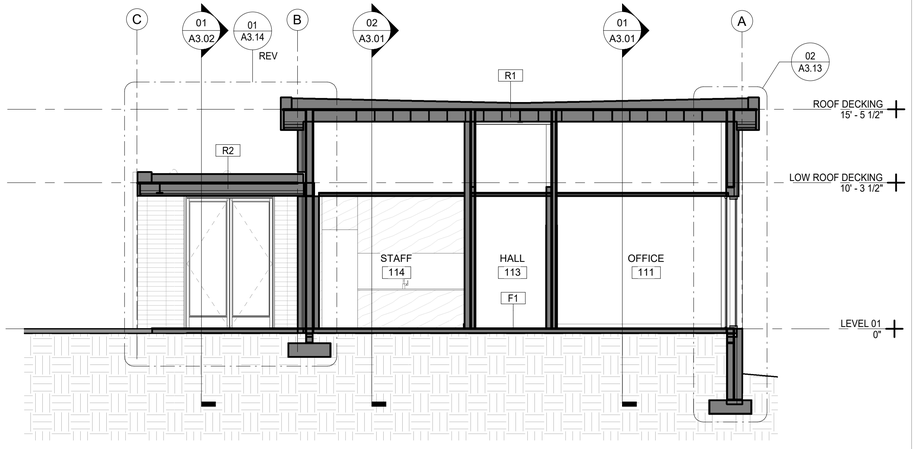
A3.02



01 NORTH-SOUTH BUILDING SECTION 3
3/16" = 1'-0"



03 NORTH-SOUTH BUILDING SECTION 5
3/16" = 1'-0"



02 NORTH-SOUTH BUILDING SECTION 4
3/16" = 1'-0"

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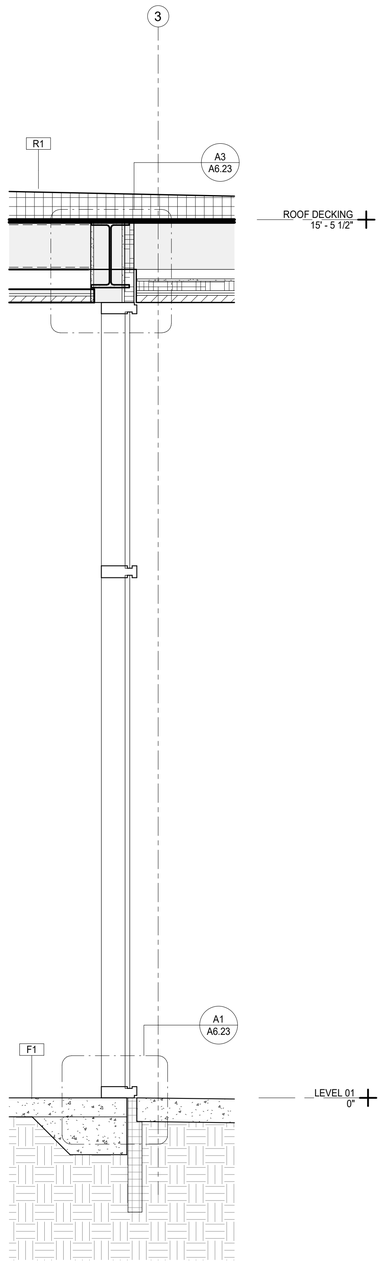
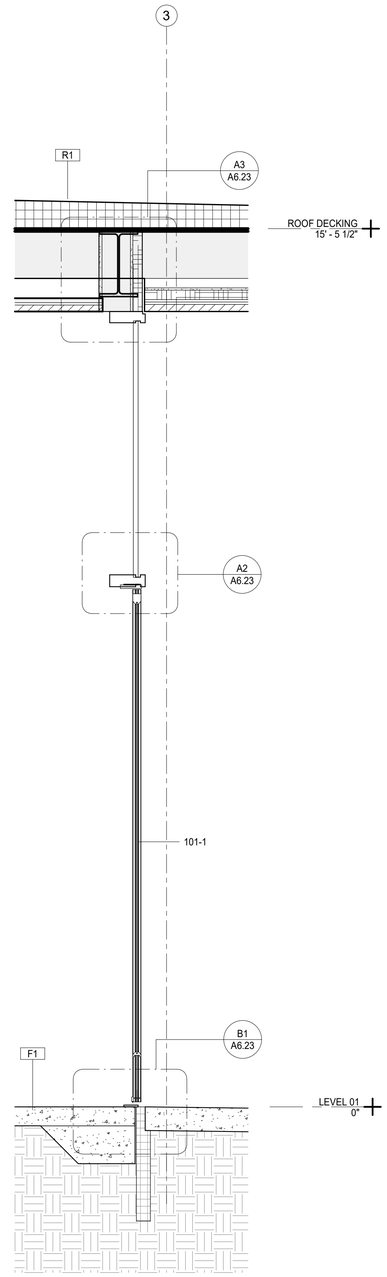
BUILDING SECTIONS

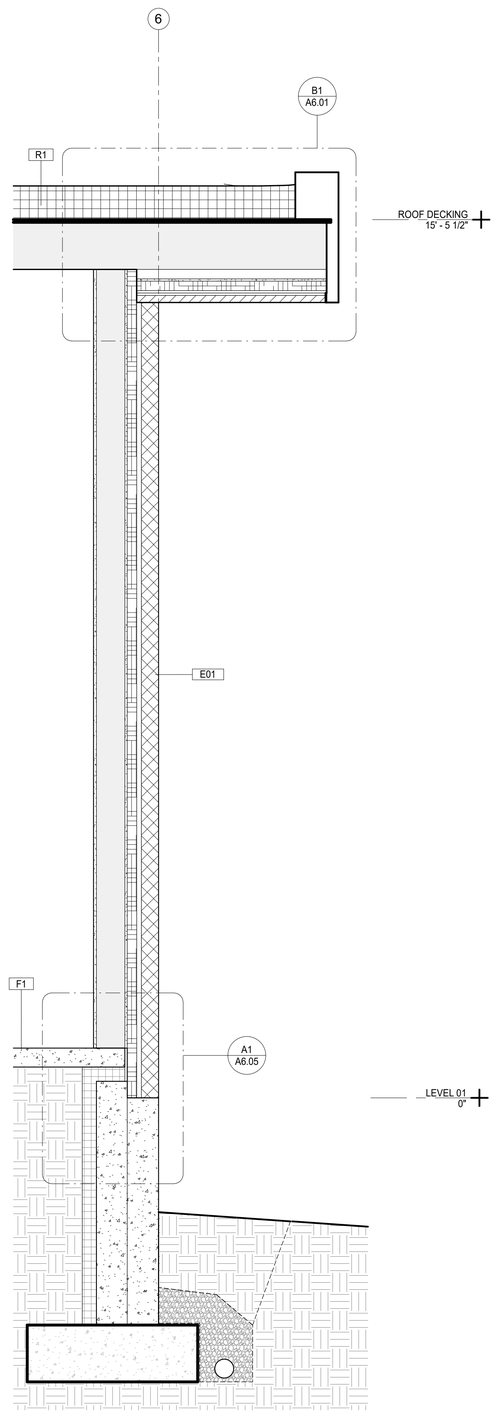
A3.03



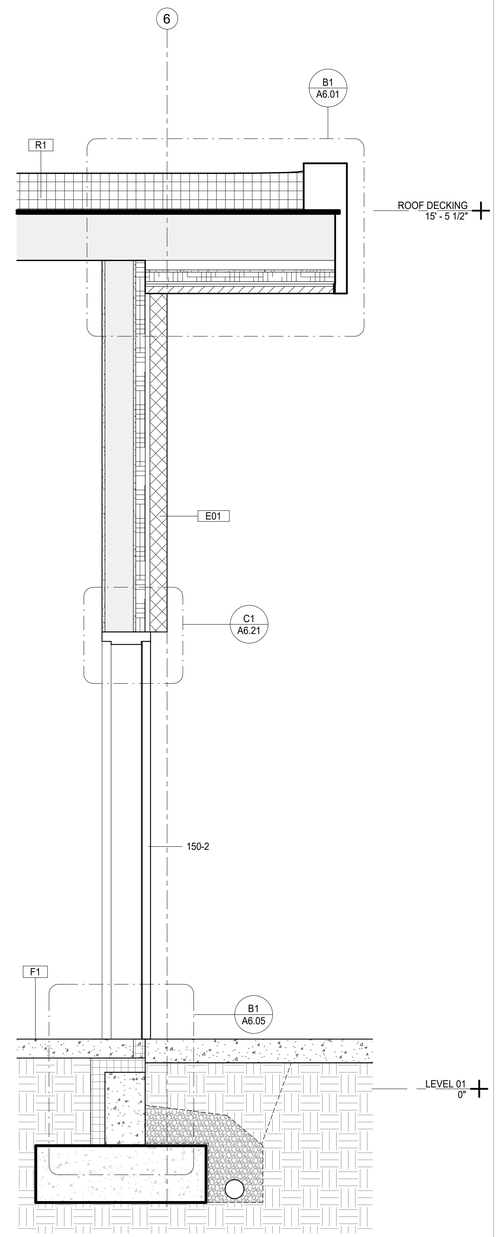
04 WALL SECTION AT WEST CURTAIN WALL
3/4" = 1'-0"



03 WALL SECTION AT WEST ENTRY DOOR
3/4" = 1'-0"



02 TYP WALL SECTION AT EAST WALL
3/4" = 1'-0"



01 WALL SECTION AT E SWING DOOR
3/4" = 1'-0"

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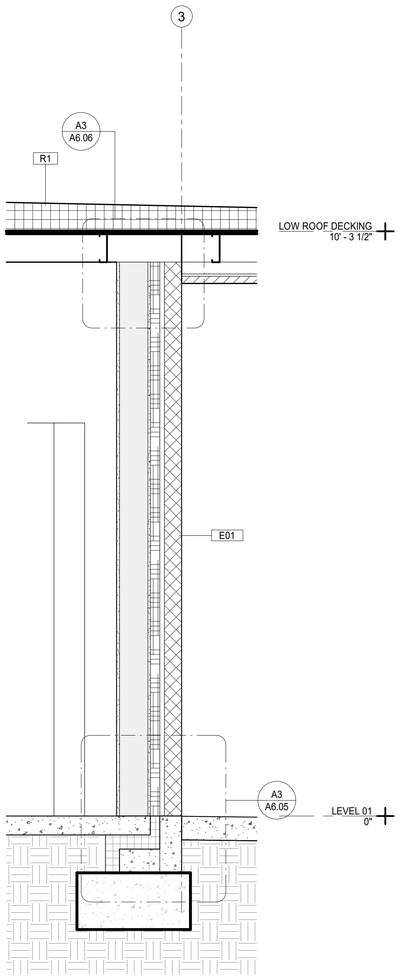
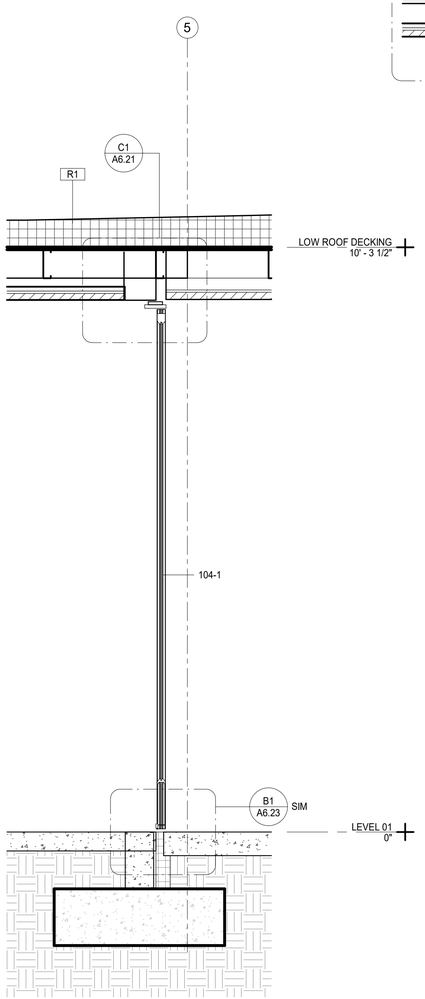
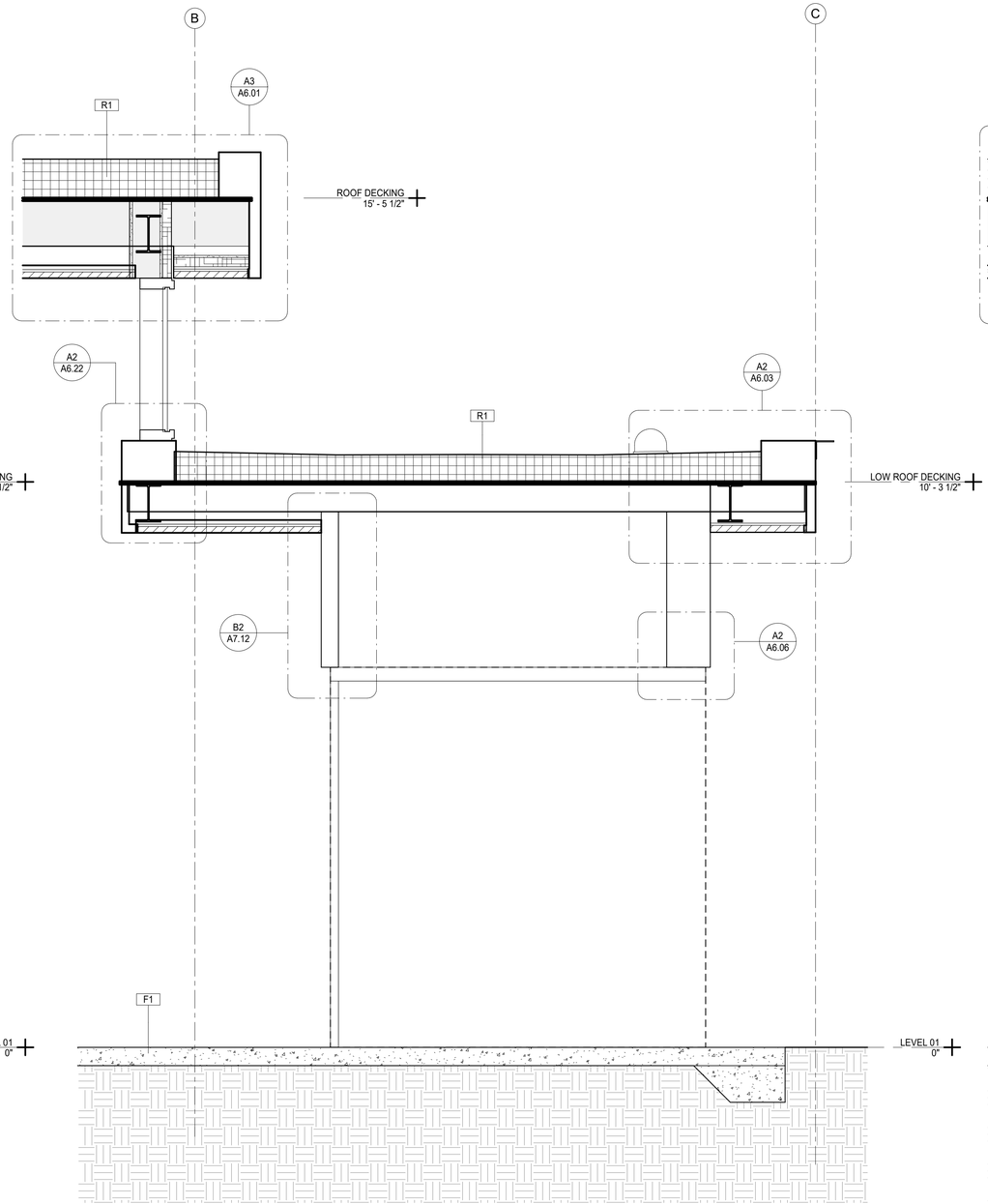
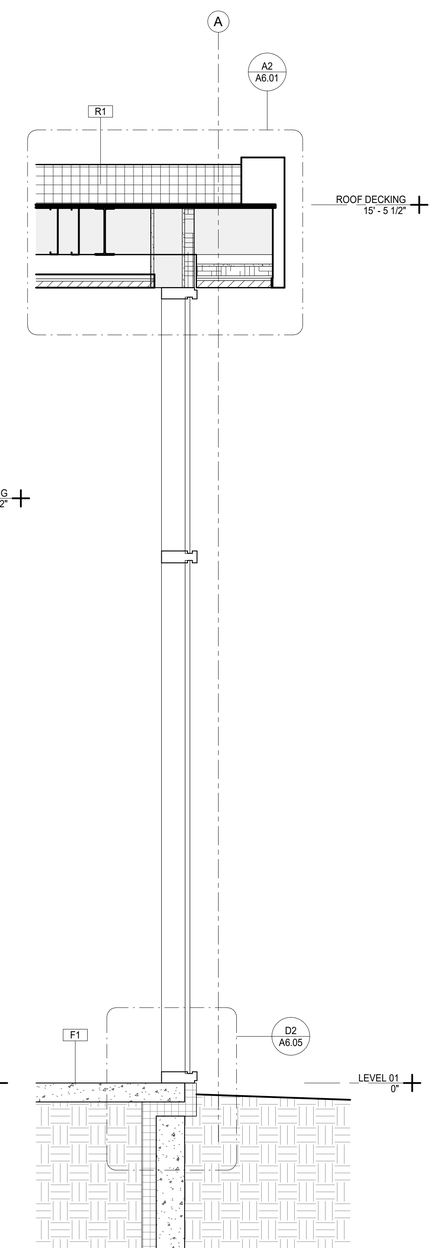
ENLARGED SECTIONS

A3.11









04 WALL SECTION AT WEST LOW ROOF
3/4" = 1'-0"

03 WALL SECTION AT DOOR 104-1
3/4" = 1'-0"

02 WALL SECTION AT COURT ENTRY UNIT
3/4" = 1'-0"

01 WALL SECTION AT N CURTAIN WALL
3/4" = 1'-0"

FWD//
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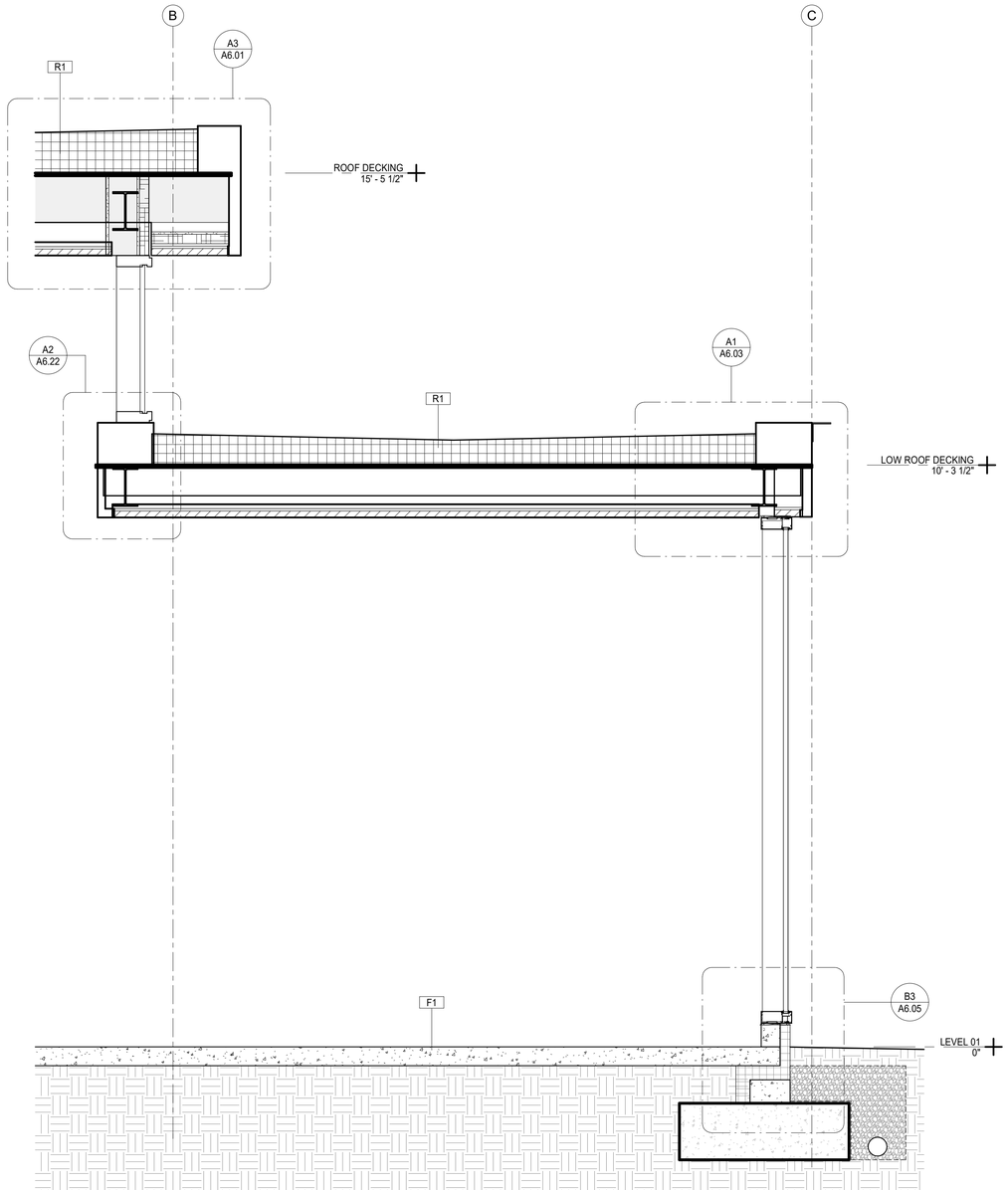
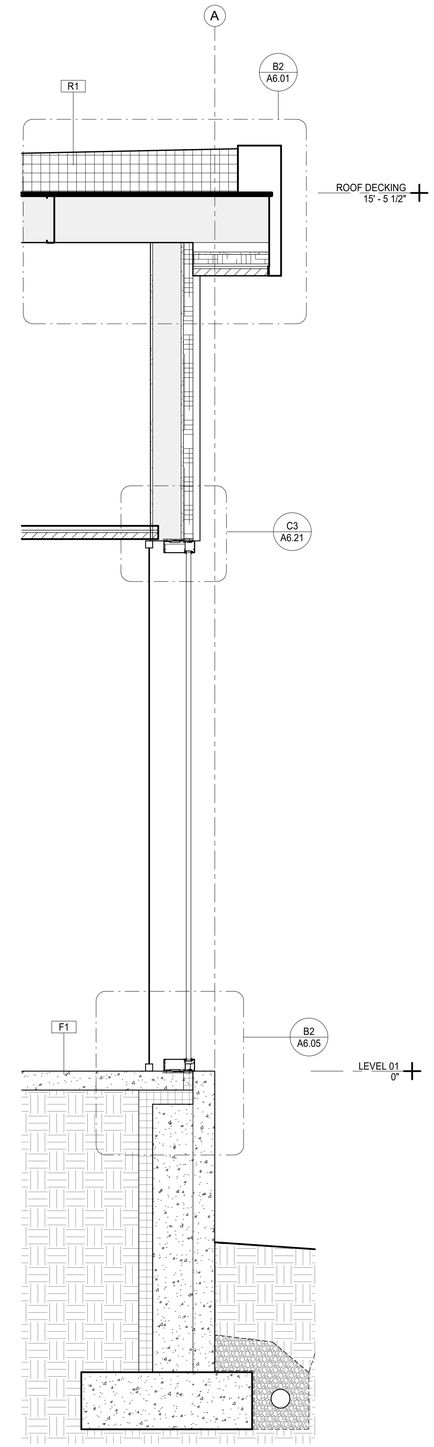
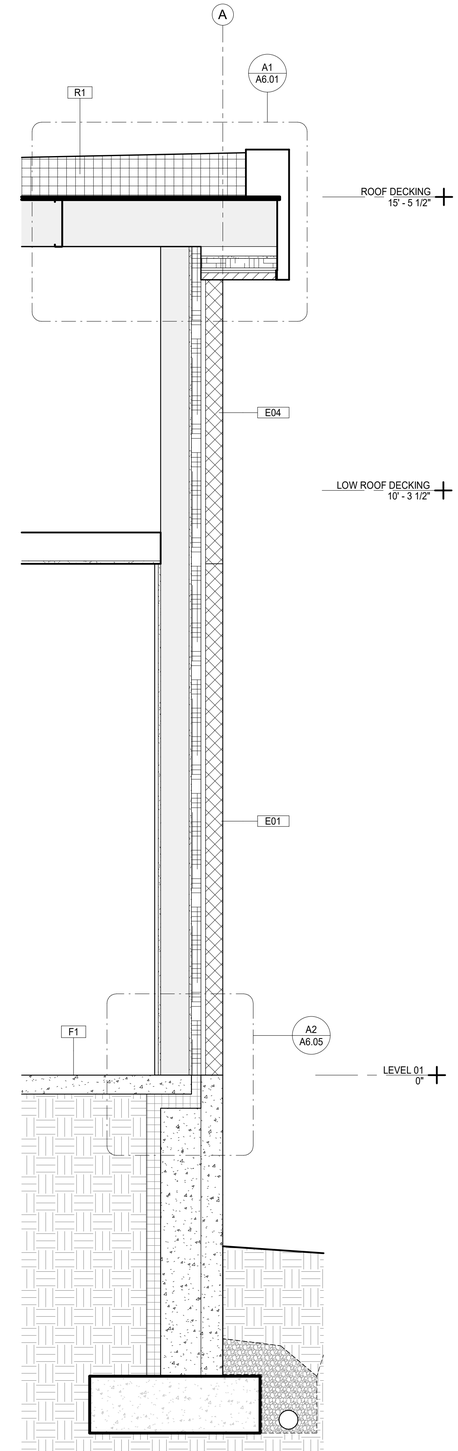
PORTLAND, OREGON
5029
STATE OF OREGON

ENLARGED SECTIONS

A3.12







03 WALL SECTION AT SOUTH STOREFRONT AND CLERESTORY
3/4" = 1'-0"

02 WALL SECTION AT N WINDOW
3/4" = 1'-0"

01 TYP WALL SECTION AT N WALL
3/4" = 1'-0"

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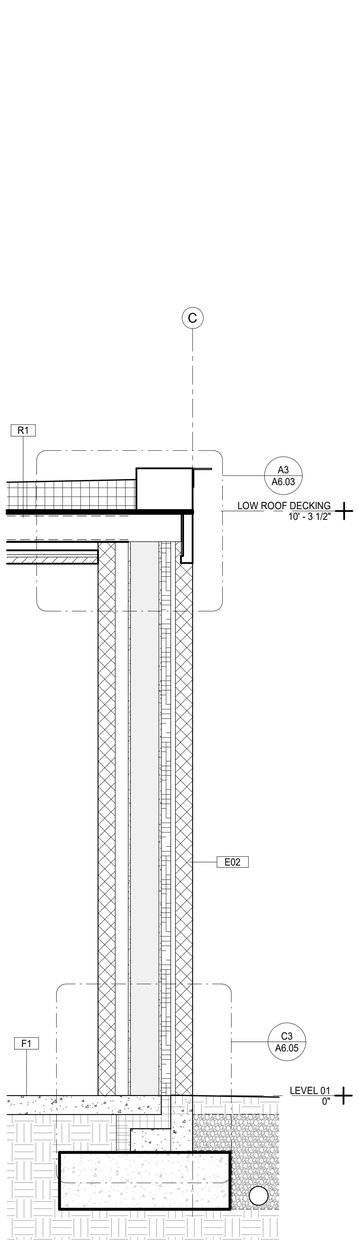
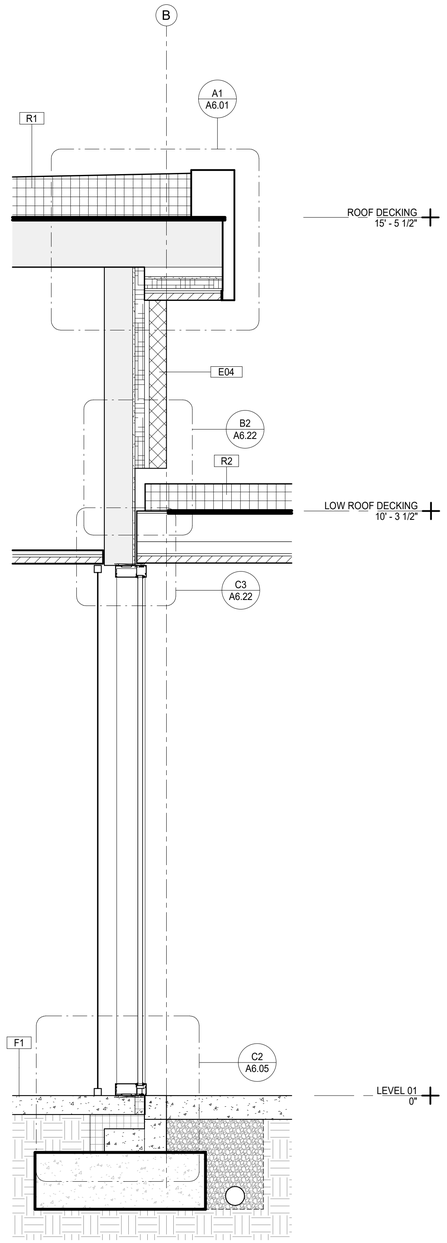
STATE OF OREGON

ENLARGED SECTIONS

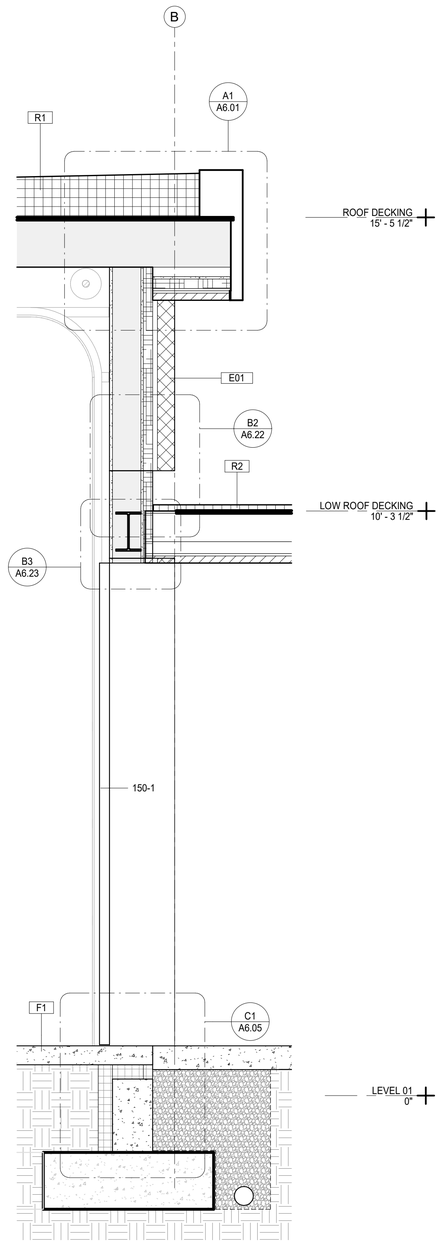
A3.13



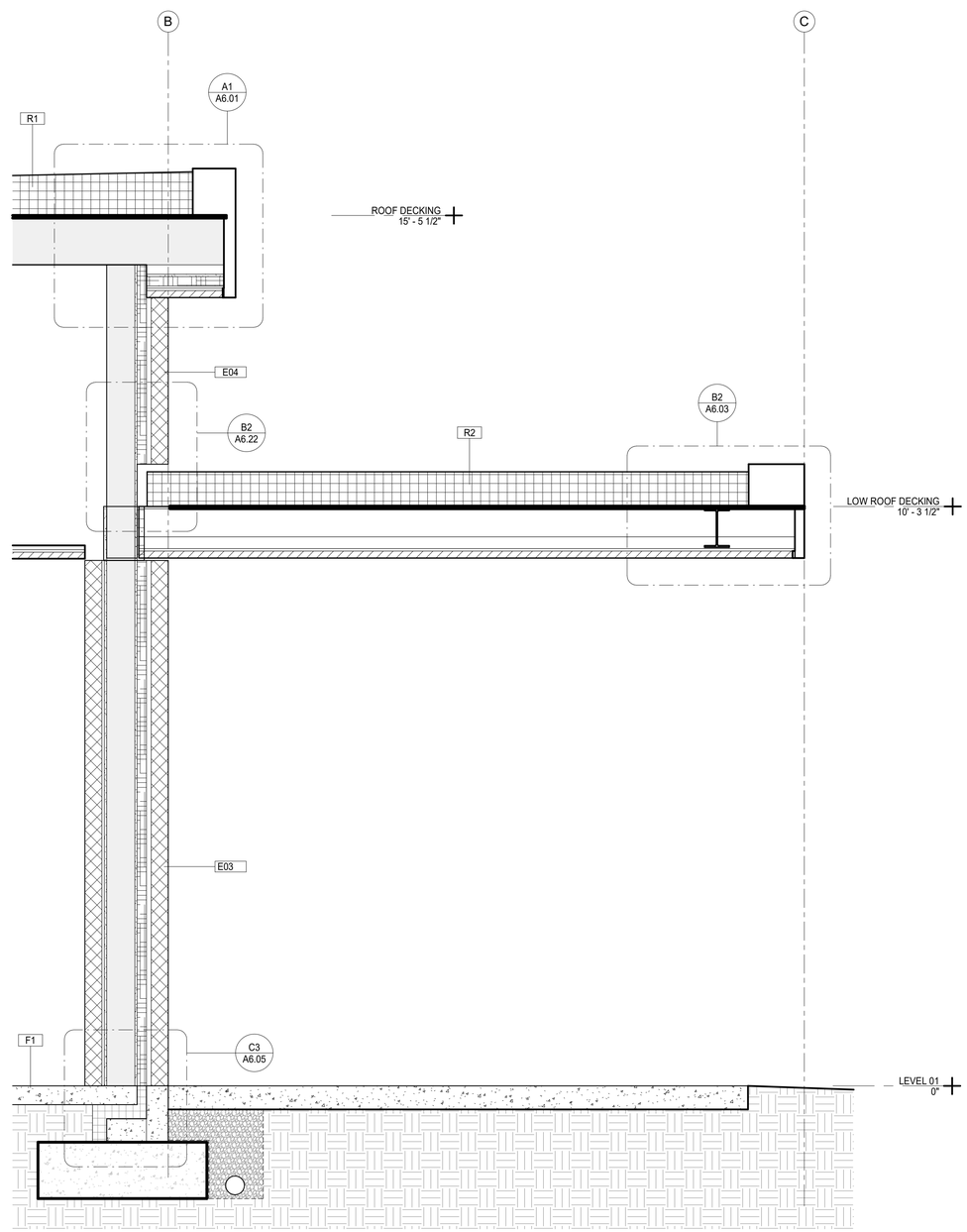
04 WALL SECTION AT S LOW ROOF
3/4" = 1'-0"



03 WALL SECTION AT SOUTH WINDOW
3/4" = 1'-0"



02 WALL SECTION AT S OH DOOR
3/4" = 1'-0"



01 TYP WALL SECTION AT SOUTH WALL
3/4" = 1'-0"

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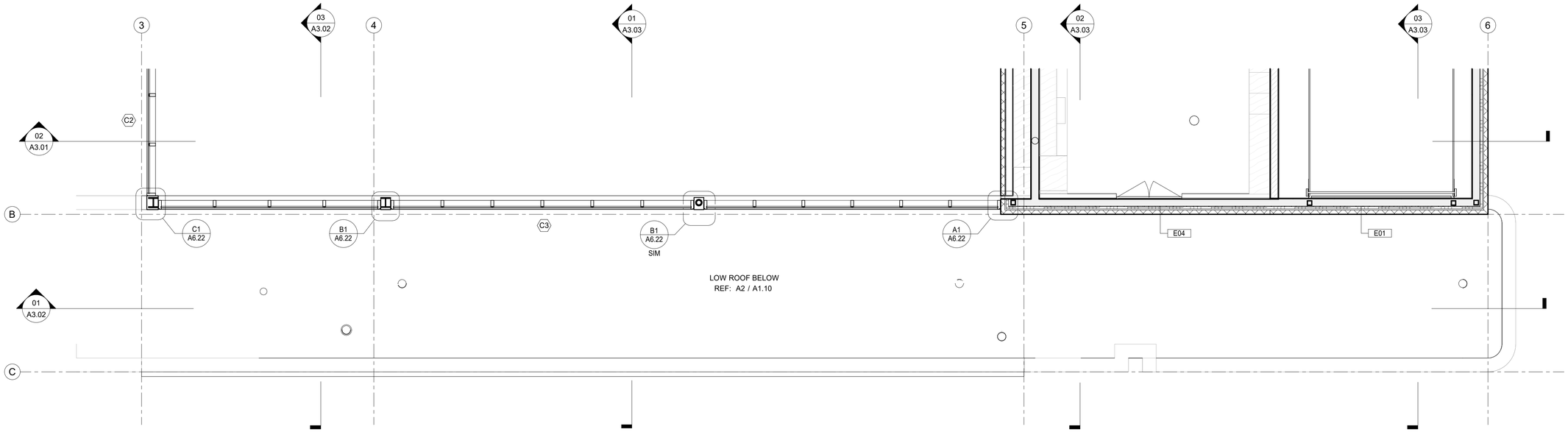
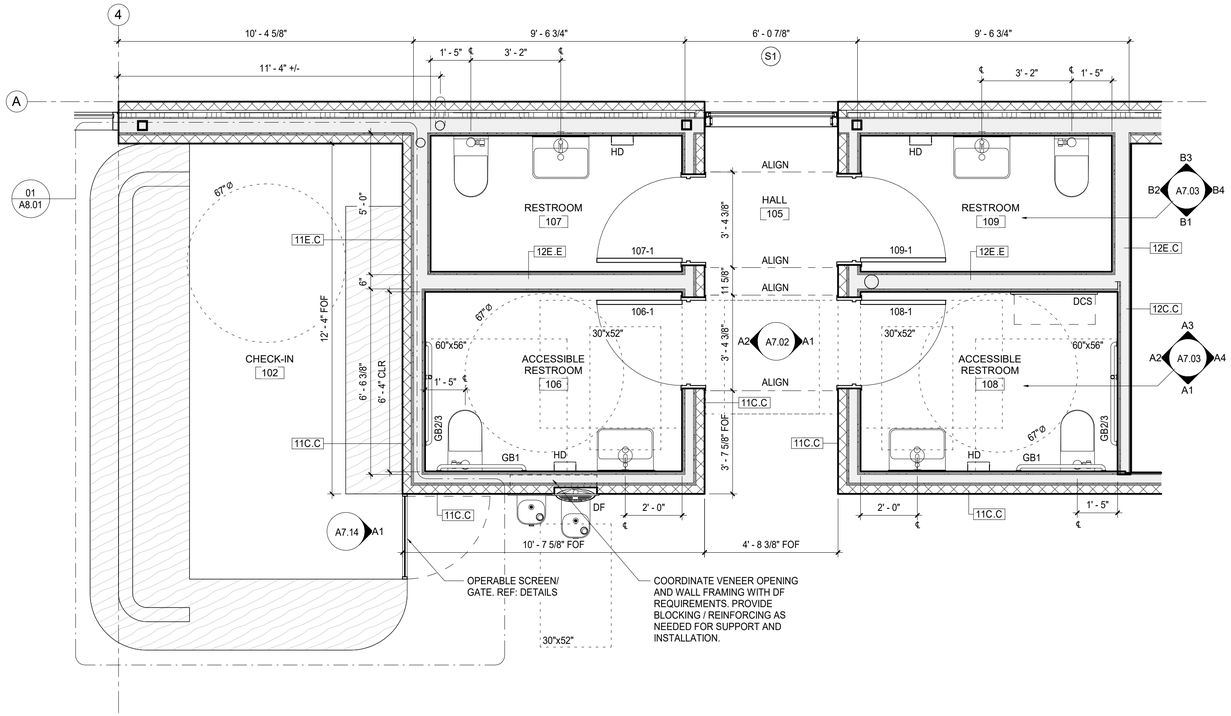
ENLARGED SECTIONS

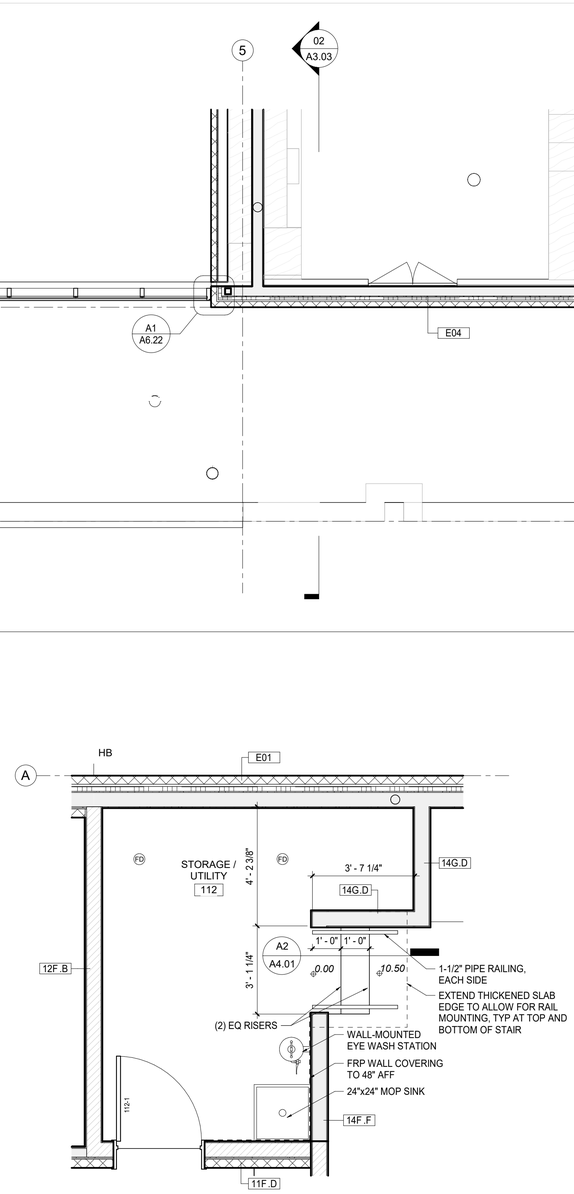
A3.14



01 CLERESTORY PLAN
1/4" = 1'-0"

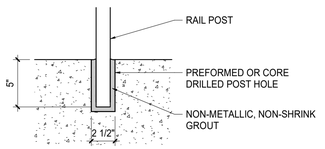


02 ENLARGED FRONT DESK AND RESTROOM PLAN
3/8" = 1'-0"



03 STORAGE/UTILITY 112 ENLARGED PLAN
3/8" = 1'-0"

A2 INTERIOR STAIR SECTION
3/4" = 1'-0"



A1 RAIL BASE DETAIL
1 1/2" = 1'-0"

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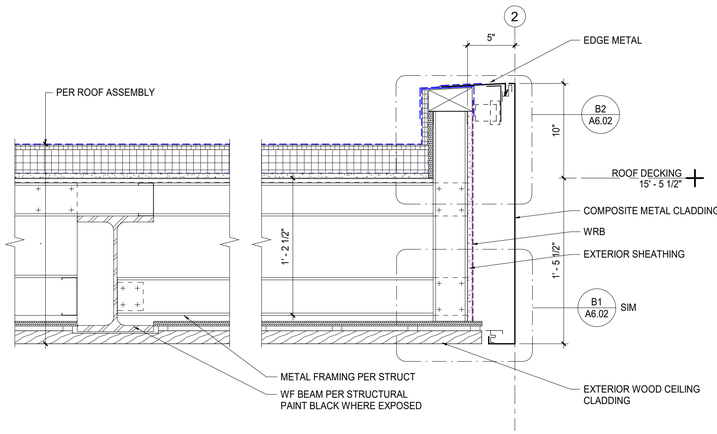
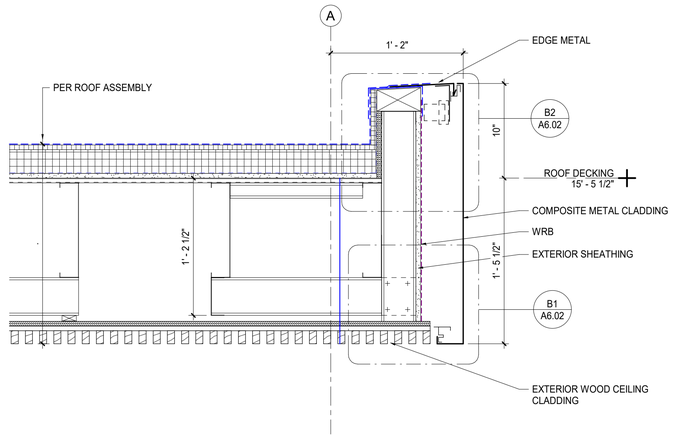
PARTIAL FLOOR PLANS

A4.01



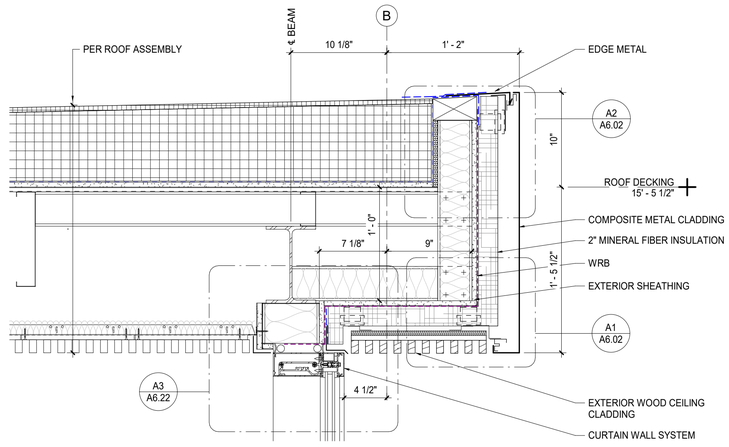
C3 EAVE DETAIL AT PLAZA WEST

1 1/2" = 1'-0"



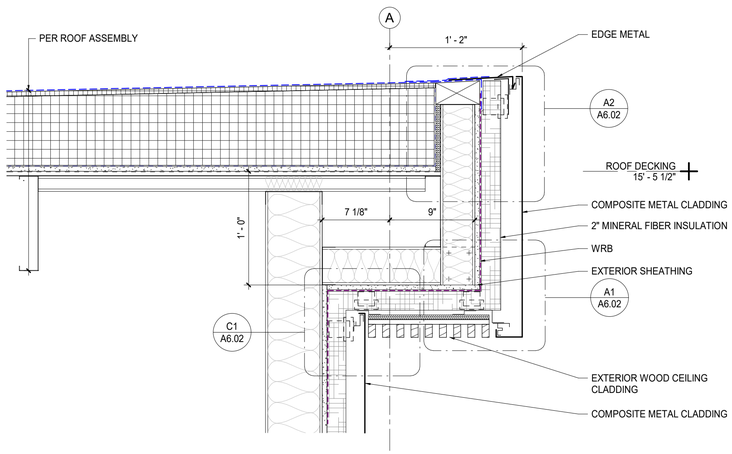
B3 EAVE DETAIL AT PLAZA NORTH AND SOUTH

1 1/2" = 1'-0"



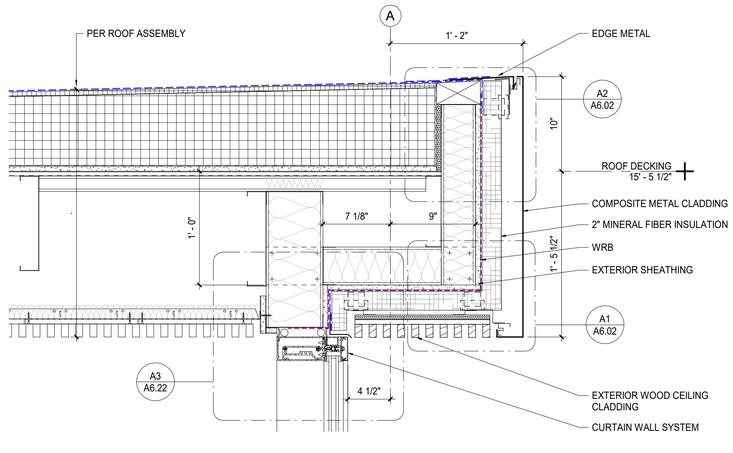
A3 EAVE DETAIL AT SOUTH CLERESTORY

1 1/2" = 1'-0"



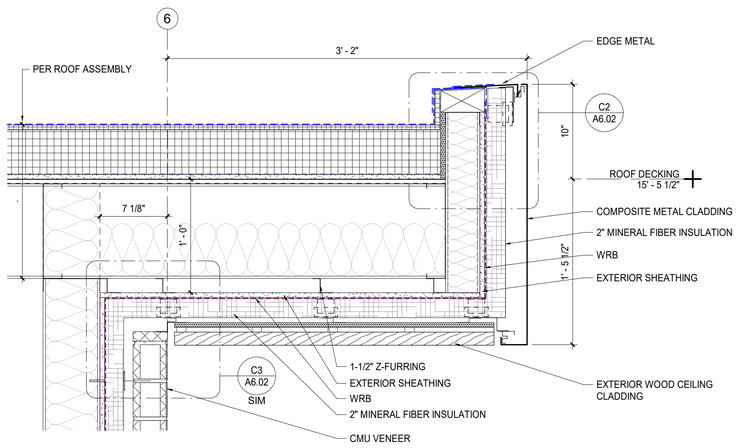
B2 EAVE DETAIL AT NORTH AND SOUTH METAL CLADDING

1 1/2" = 1'-0"



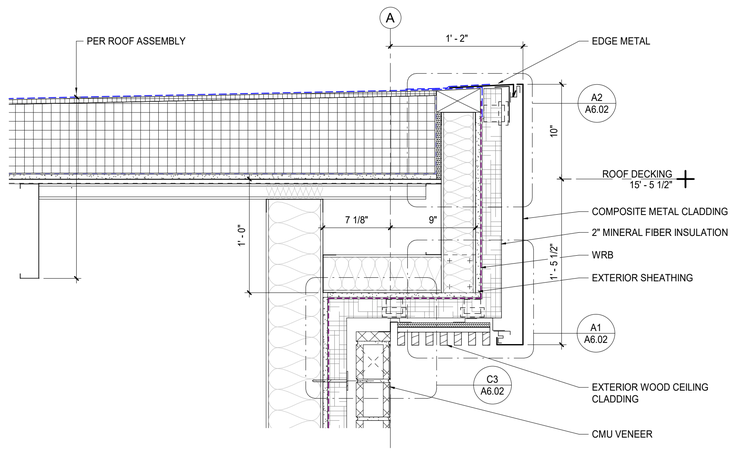
A2 EAVE DETAIL AT NORTH CURTAIN WALL

1 1/2" = 1'-0"



B1 EAVE DETAIL AT EAST SOLID WALL

1 1/2" = 1'-0"



A1 EAVE DETAIL AT NORTH AND SOUTH SOLID WALL

1 1/2" = 1'-0"

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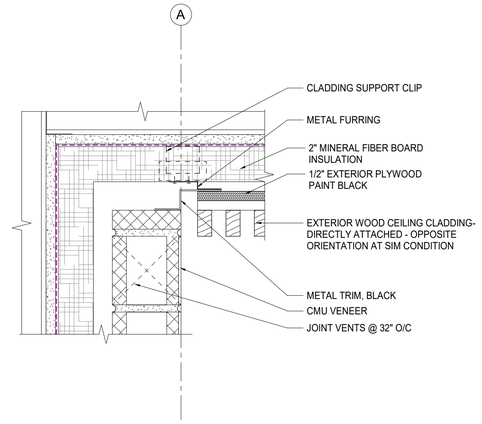
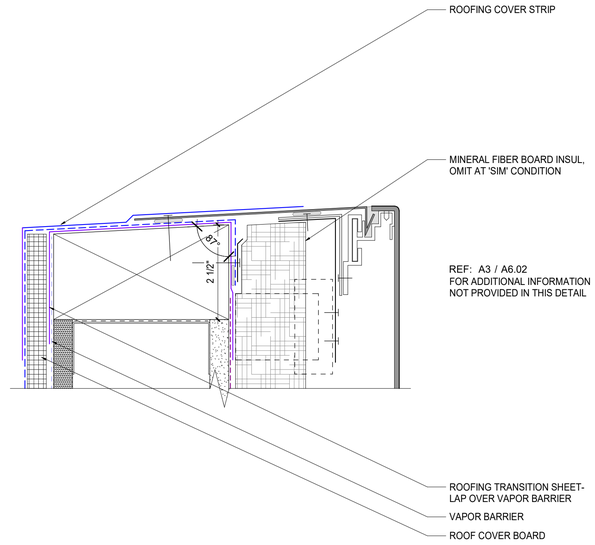
CORNELL A. ANDERSON
PORTLAND, OREGON
5029
STATE OF OREGON

EXTERIOR DETAILS

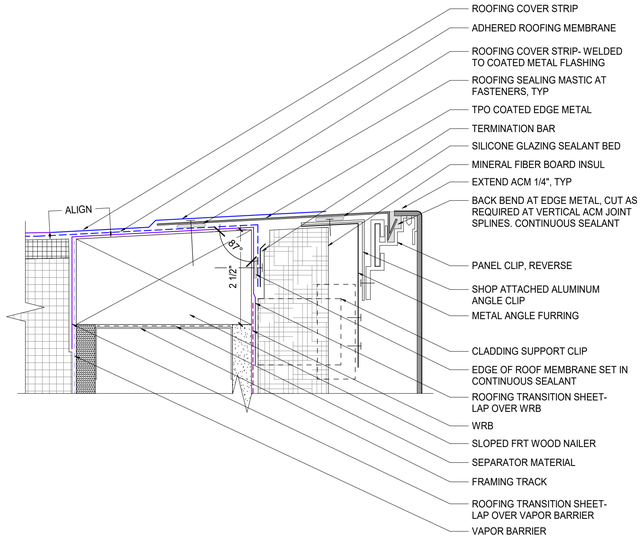
A6.01



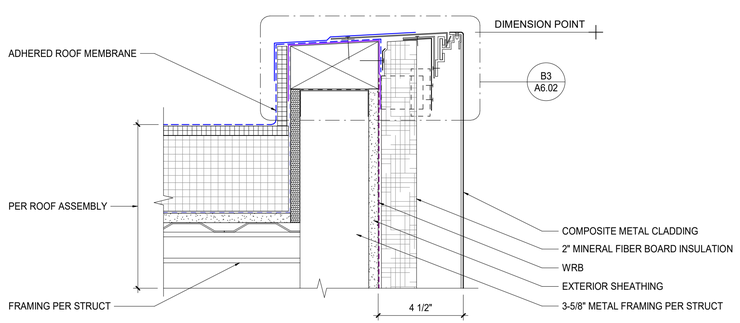
C3 WOOD SOFFIT TO CMU VENEER
3" = 1'-0"



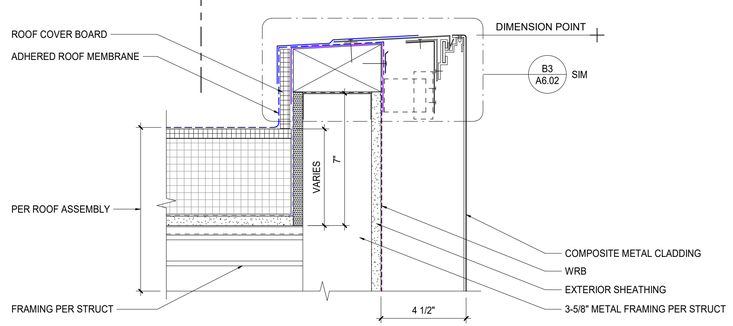
B3 CANOPY EDGE ENLARGED DETAIL
6" = 1'-0"



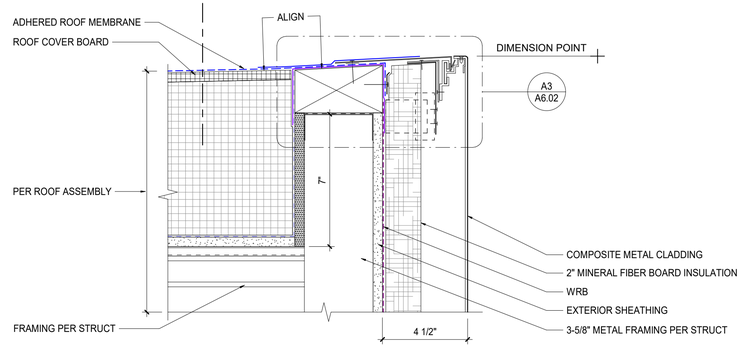
A3 ROOF EDGE ENLARGED DETAIL
6" = 1'-0"



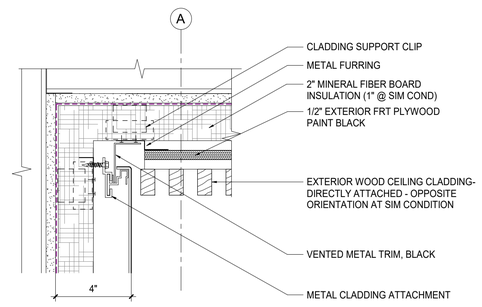
C2 HIGH ROOF EDGE DETAIL- EAST
3" = 1'-0"



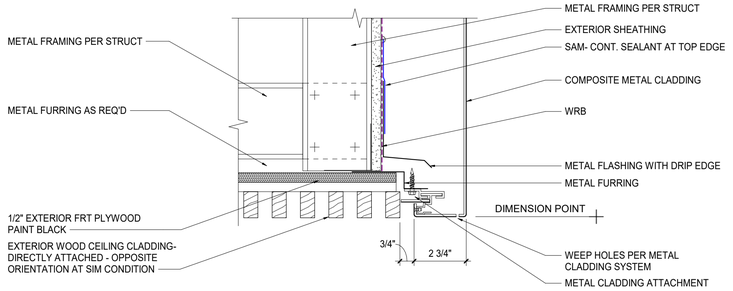
B2 HIGH CANOPY ROOF EDGE DETAIL
3" = 1'-0"



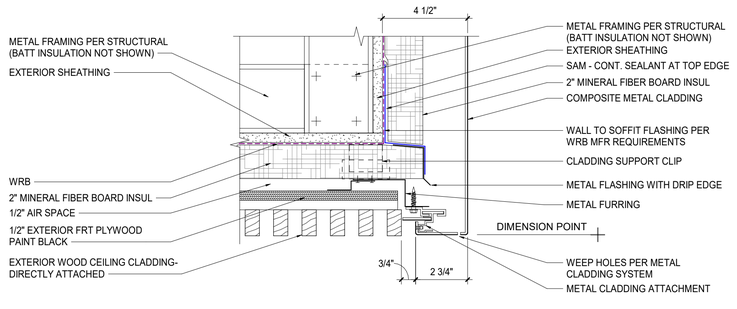
A2 HIGH ROOF EDGE DETAIL- TYPICAL
3" = 1'-0"



C1 WOOD SOFFIT TO METAL PANEL
3" = 1'-0"



B1 HIGH ROOF METAL FASCIA TO WOOD SOFFIT AT PLAZA
3" = 1'-0"



A1 TYPICAL HIGH ROOF METAL FASCIA TO WOOD SOFFIT
3" = 1'-0"

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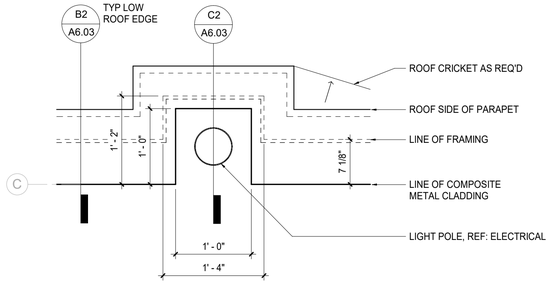
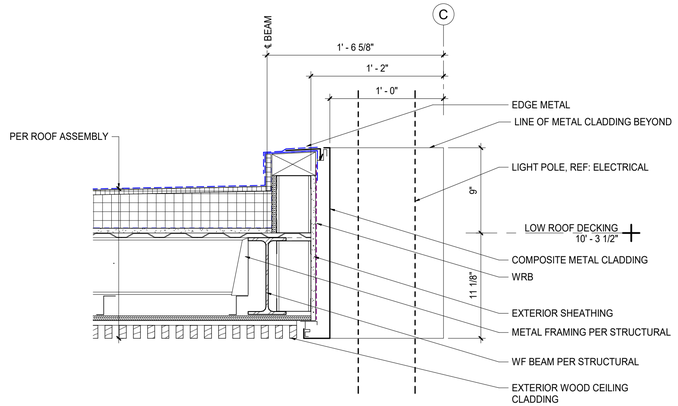
EXTERIOR DETAILS

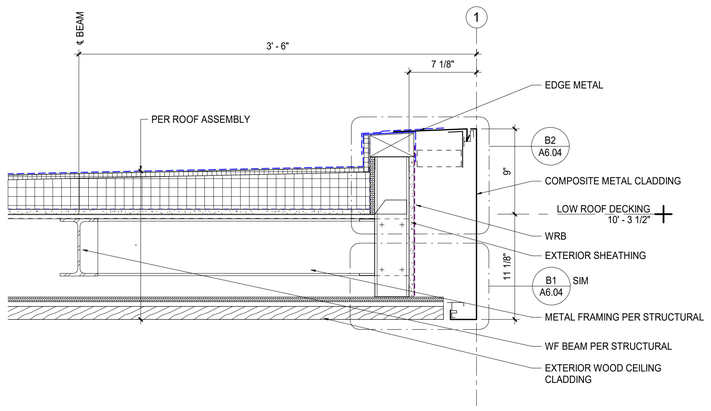
A6.02



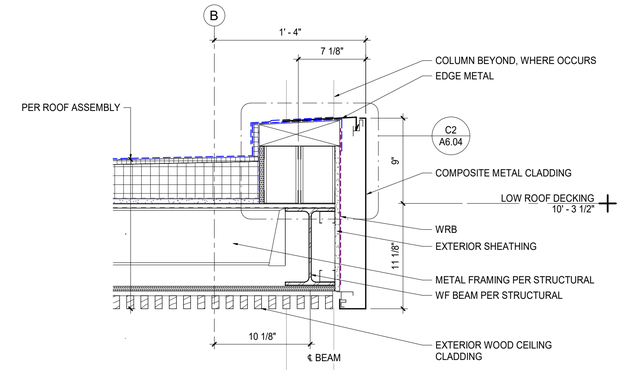
C3 LOW ROOF AT COURT LIGHT POLE
1" = 1'-0"



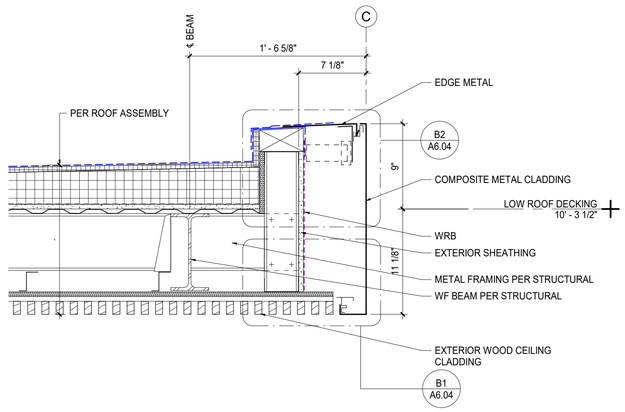
C2 LOW ROOF EAVE AT LIGHT POLE
1 1/2" = 1'-0"



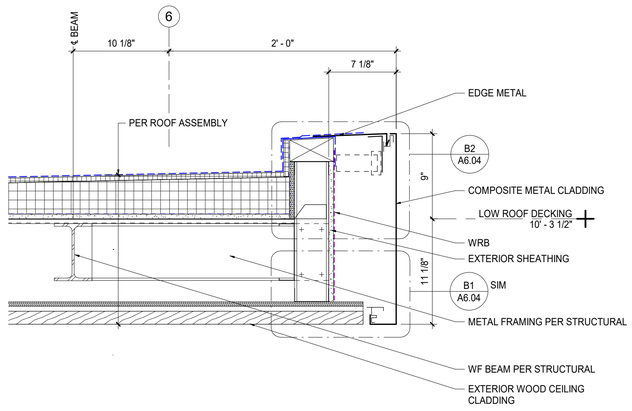
C1 LOW ROOF EAVE AT PLAZA WEST
1 1/2" = 1'-0"



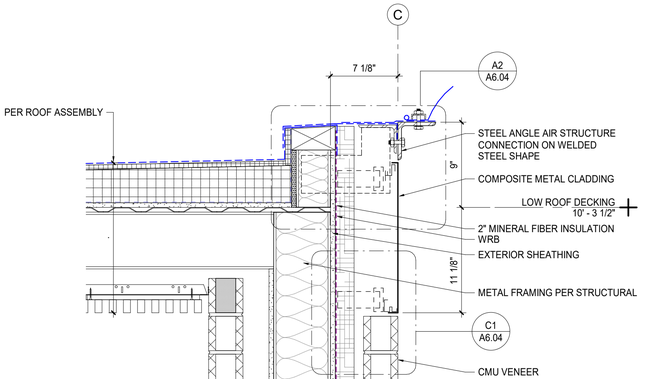
B3 LOW ROOF EAVE AT PLAZA NORTH
1 1/2" = 1'-0"



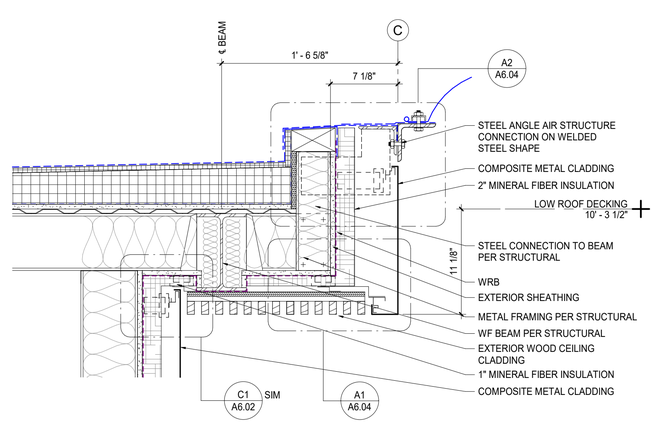
B2 LOW ROOF EAVE AT PLAZA SOUTH
1 1/2" = 1'-0"



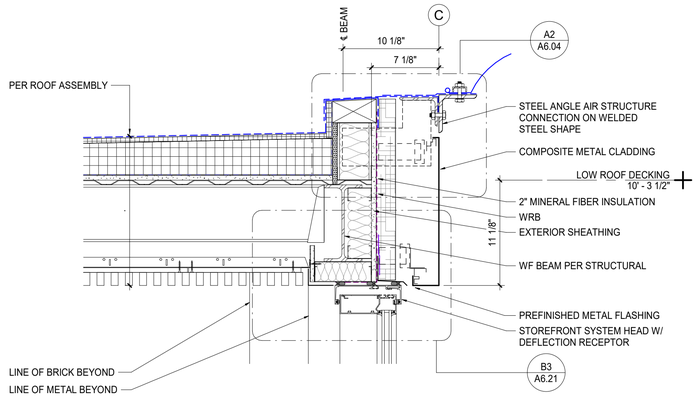
B1 LOW ROOF EAVE AT PLAZA EAST
1 1/2" = 1'-0"



A3 LOW ROOF FASCIA AT CMU
1 1/2" = 1'-0"



A2 LOW ROOF EAVE AT COURT ENTRY
1 1/2" = 1'-0"



A1 LOW ROOF EAVE AT STOREFRONT HEAD
1 1/2" = 1'-0"

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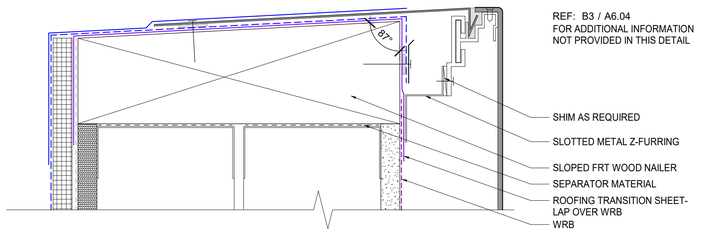
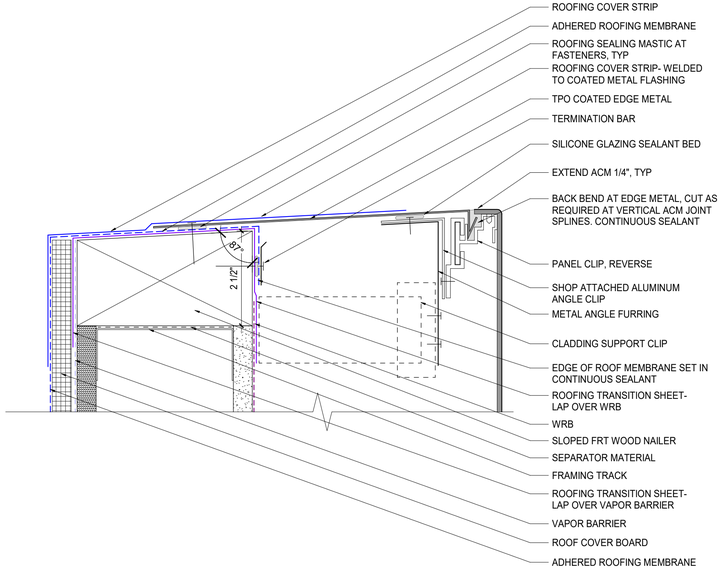
STATE OF OREGON

EXTERIOR DETAILS

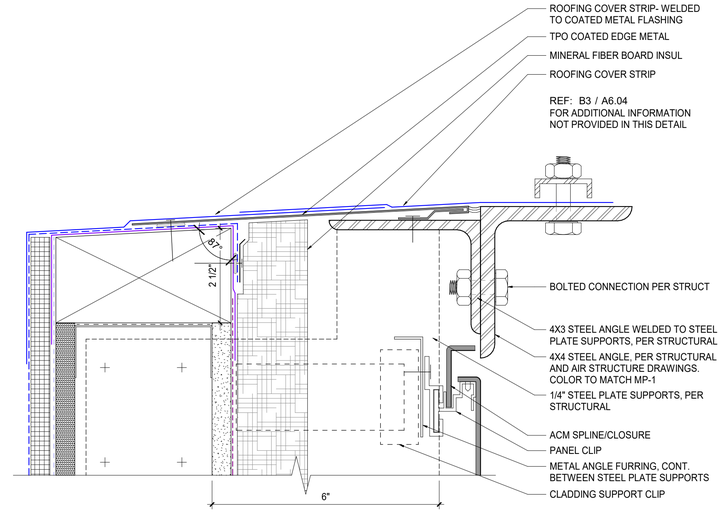
A6.03



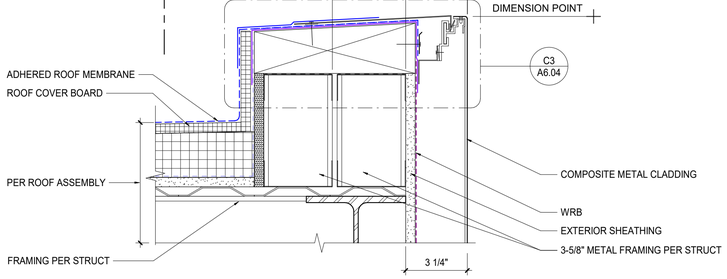
C3 LOW ROOF EDGE ENLARGED DETAIL- NORTH
6" = 1'-0"



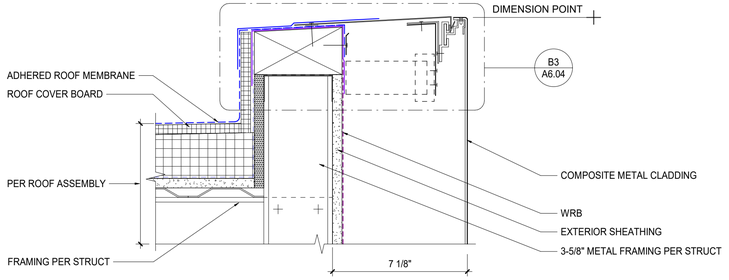
B3 LOW ROOF EDGE ENLARGED DETAIL
6" = 1'-0"



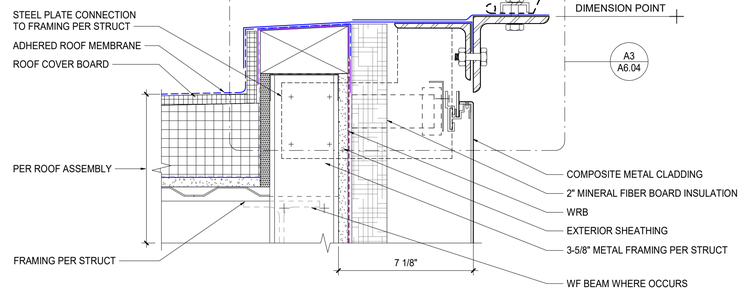
A3 LOW ROOF EDGE AT AIR STRUCTURE ENLARGED DETAIL
6" = 1'-0"



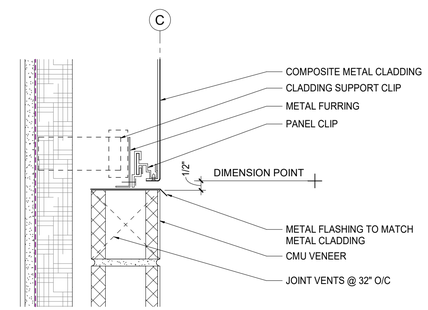
C2 LOW CANOPY ROOF EDGE DETAIL- NORTH
3" = 1'-0"



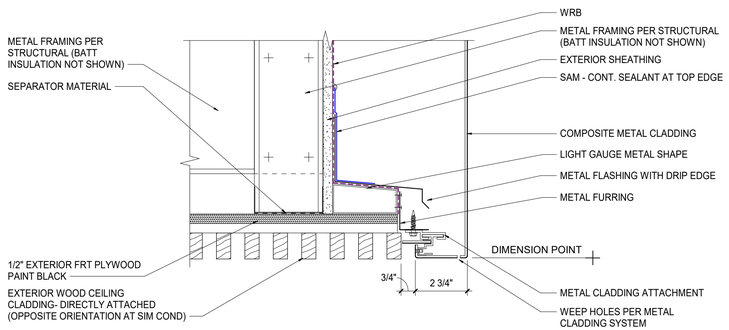
B2 LOW CANOPY ROOF EDGE DETAIL
3" = 1'-0"



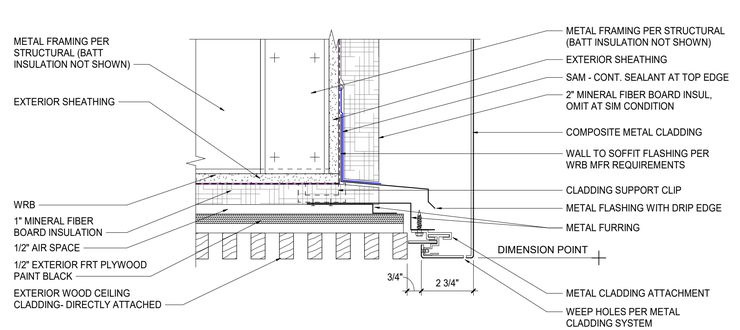
A2 LOW ROOF EDGE DETAIL AT AIR STRUCTURE
3" = 1'-0"



C1 EXTERIOR METAL FASCIA TO CMU VENEER
3" = 1'-0"



B1 LOW CANOPY METAL FASCIA TO WOOD SOFFIT
3" = 1'-0"



A1 LOW ROOF METAL FASCIA TO WOOD SOFFIT
3" = 1'-0"

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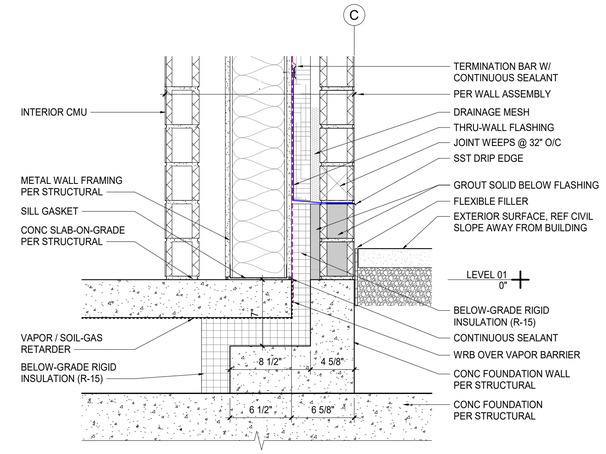
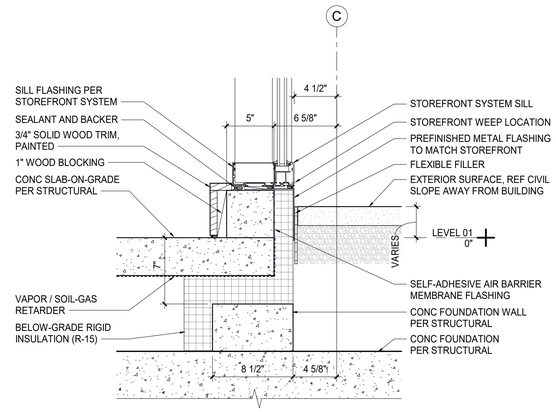
5029
STATE OF OREGON

EXTERIOR DETAILS

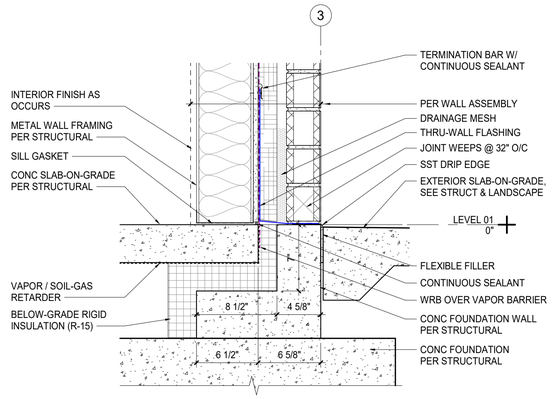
A6.04



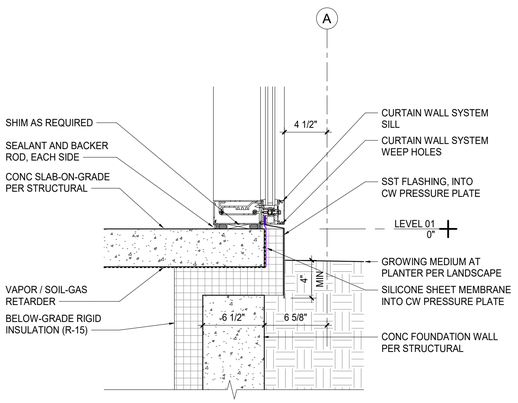
C3 SLAB EDGE DETAIL AT SOUTH CMU
1 1/2" = 1'-0"



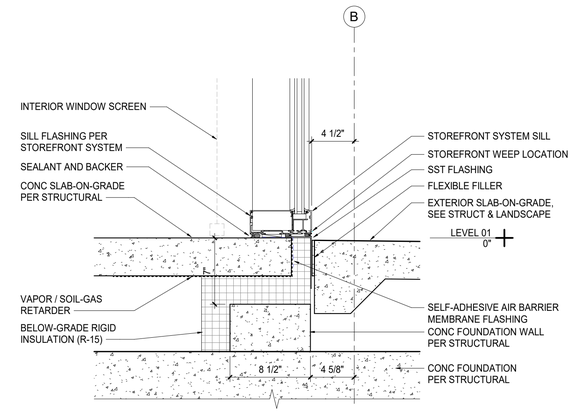
B3 SLAB EDGE AT LOUNGE STOREFRONT SILL
1 1/2" = 1'-0"



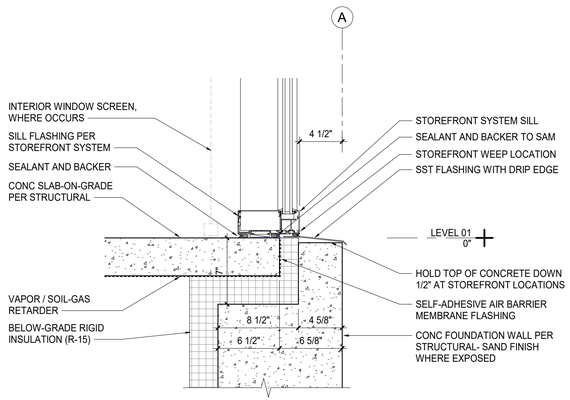
A3 SLAB EDGE DETAIL AT WEST PLAZA
1 1/2" = 1'-0"



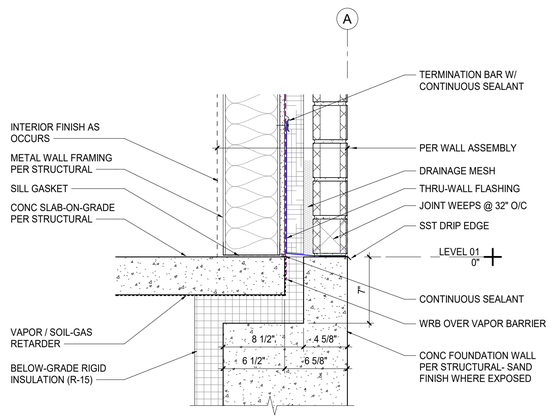
D2 SLAB EDGE DETAIL AT NORTH CURTAINWALL
1 1/2" = 1'-0"



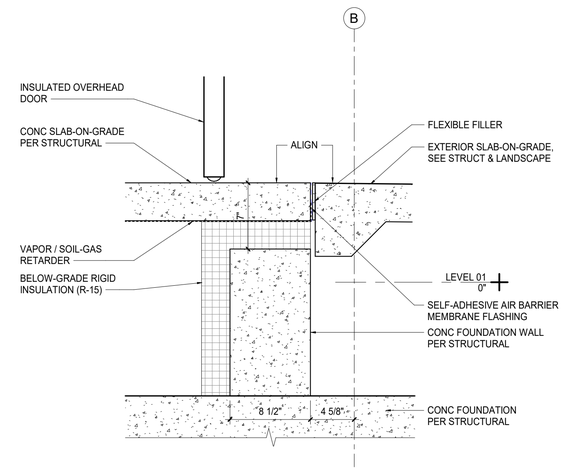
C2 SLAB EDGE DETAIL AT STAFF STOREFRONT
1 1/2" = 1'-0"



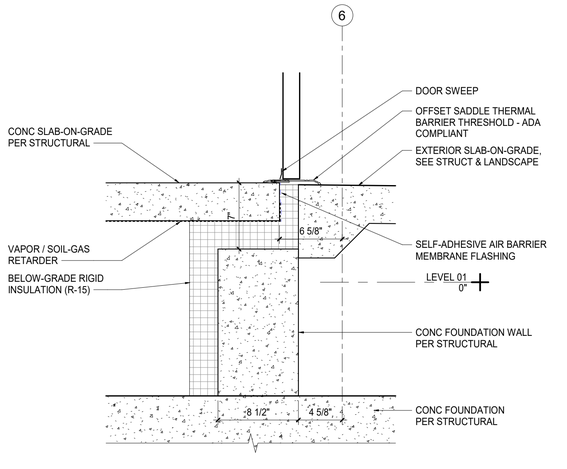
B2 SLAB EDGE AT NORTH STOREFRONT SILL
1 1/2" = 1'-0"



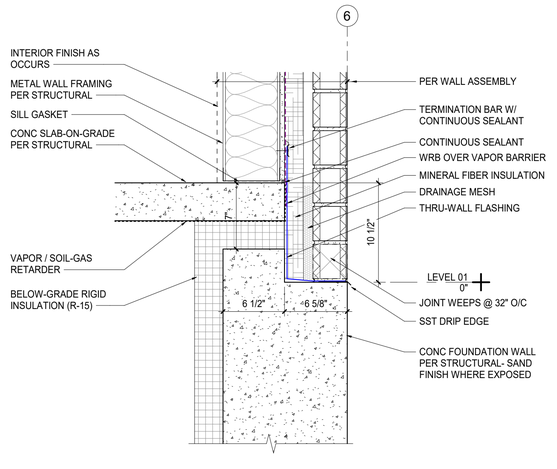
A2 SLAB EDGE DETAIL AT NORTH CMU VENEER
1 1/2" = 1'-0"



C1 SLAB EDGE DETAIL AT OH DOOR
1 1/2" = 1'-0"



B1 DOOR SILL AT STORAGE DOOR
1 1/2" = 1'-0"



A1 SLAB EDGE DETAIL AT STORAGE
1 1/2" = 1'-0"

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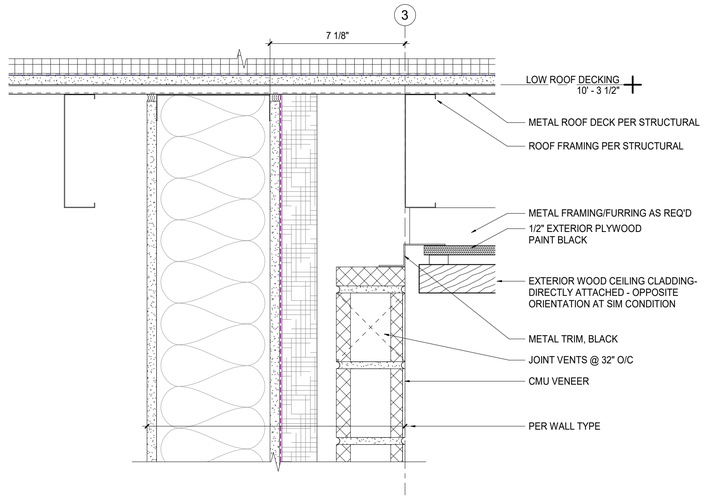
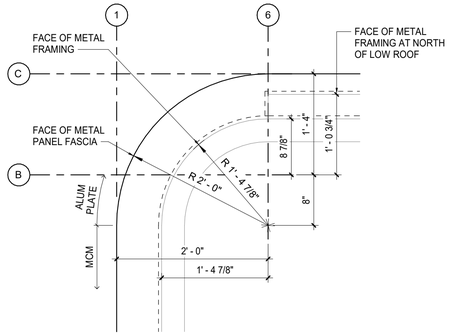
EXTERIOR DETAILS

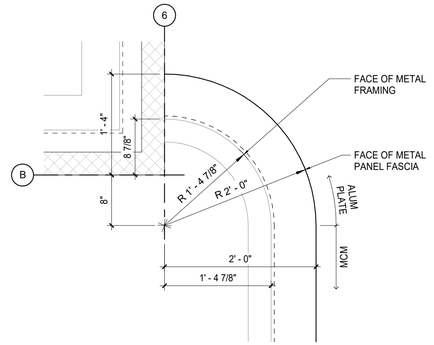
A6.05



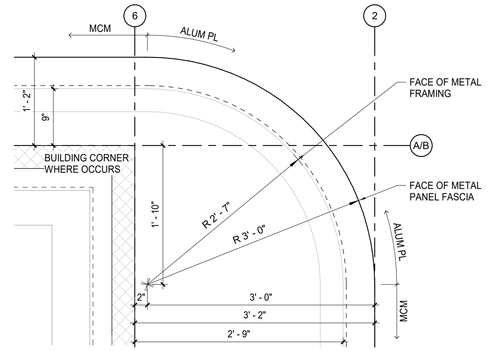
A3 CMU VENEER TO LOW ROOF AT WEST AND EAST
3" = 1'-0"



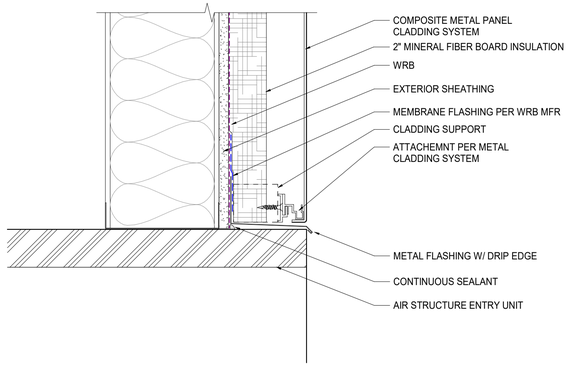
D2 LOW ROOF CORNER DIMENSIONS
1" = 1'-0"



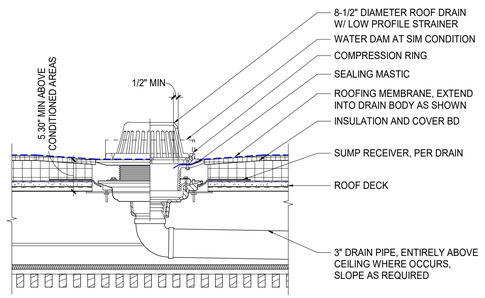
C2 LOW ROOF CORNER AT BUILDING
1" = 1'-0"



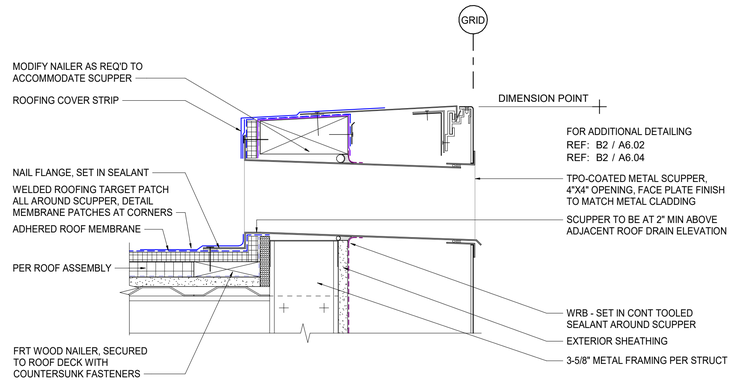
B2 HIGH ROOF CORNER DIMENSIONS
1" = 1'-0"



A2 EXTERIOR WALL AT AIR STRUCTURE ENTRY
3" = 1'-0"



B1 ROOF DRAIN DETAIL
1 1/2" = 1'-0"



A1 OVERFLOW SCUPPER DETAIL
3" = 1'-0"

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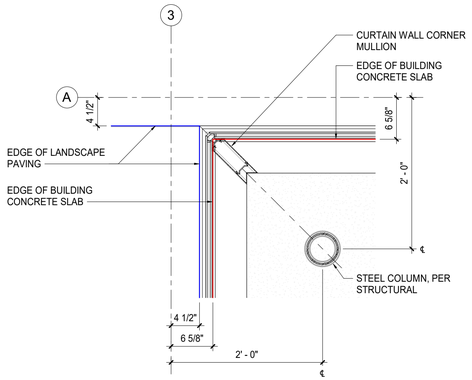
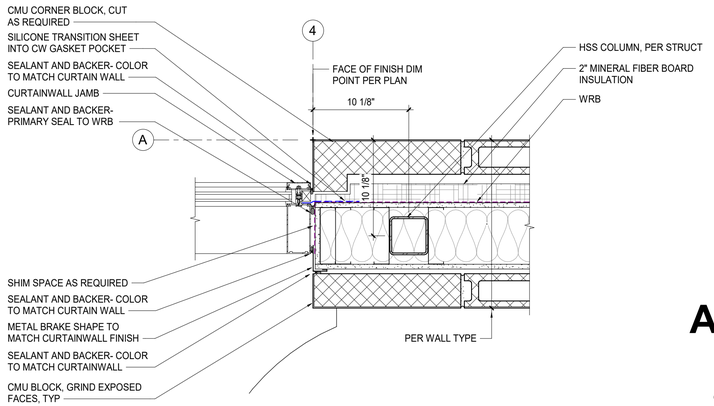
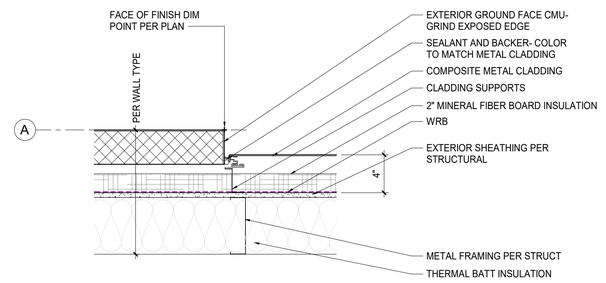
A6.06



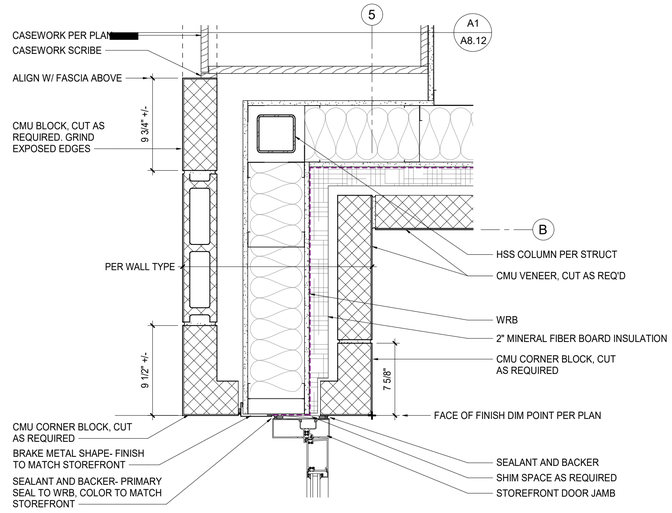
C3 PLAN DETAIL AT NORTHWEST CORNER
1" = 1'-0"



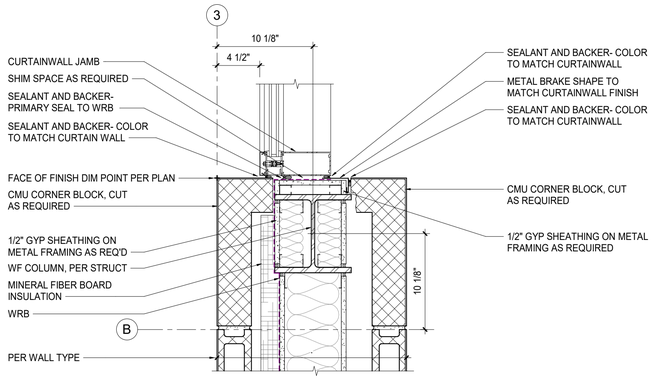
B3 CURTAIN WALL JAMB AT NORTH ELEVATION
1 1/2" = 1'-0"



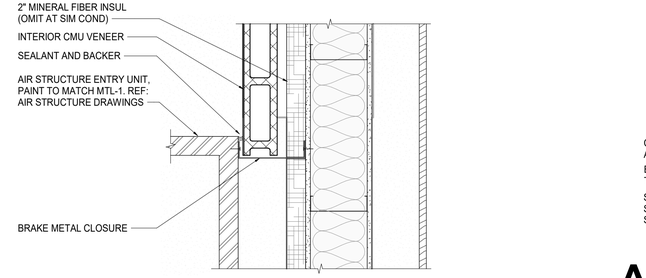
A3 CMU VENEER TO METAL CLADDING
1 1/2" = 1'-0"



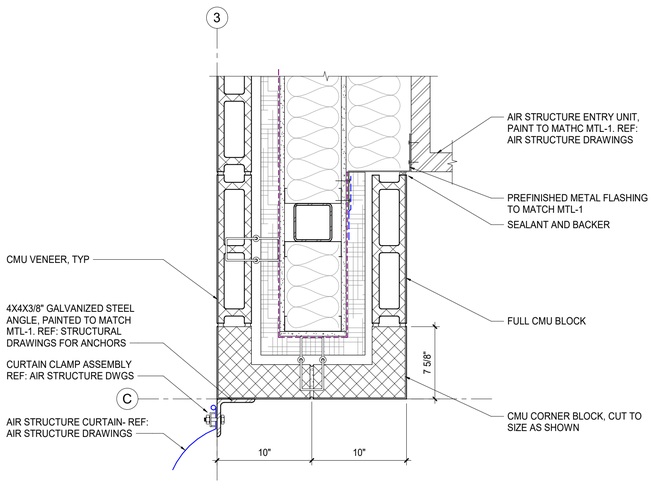
A2 PLAN DETAIL AT DOOR 104-1, CORNER
1 1/2" = 1'-0"



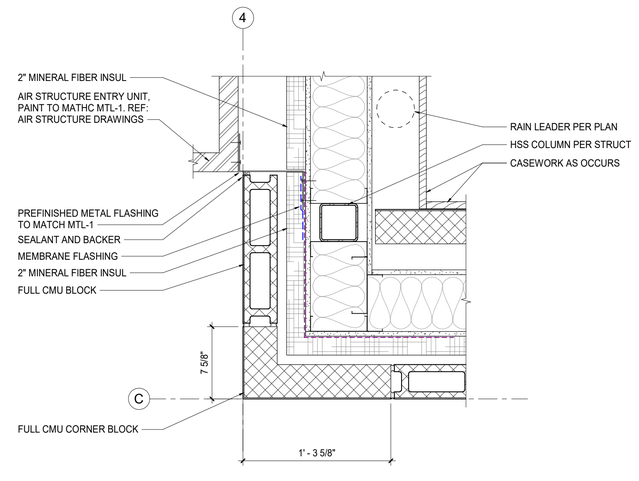
C2 CURTAIN WALL JAMB AT WEST ELEVATION
1 1/2" = 1'-0"



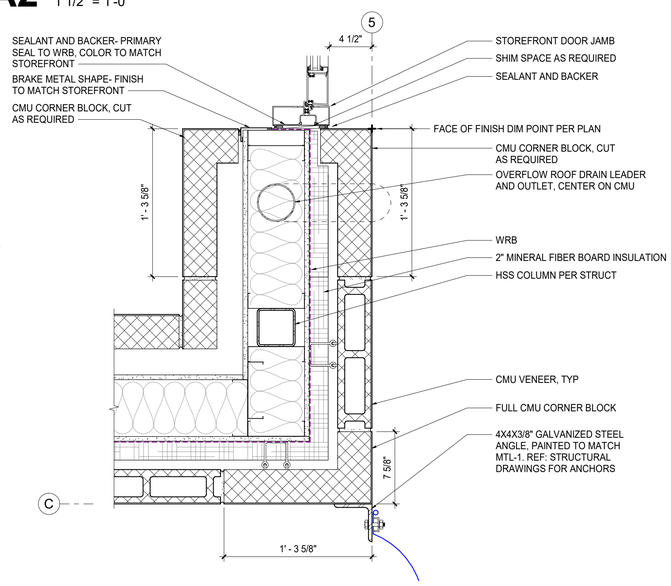
B2 INTERIOR PLAN DETAIL AT AIR STRUCTURE ENTRY
1 1/2" = 1'-0"



C1 PLAN DETAIL AT SOUTHWEST CORNER
1 1/2" = 1'-0"



B1 PLAN DETAIL AT AIR STRUCTURE ENTRY
1 1/2" = 1'-0"



A1 PLAN DETAIL AT SOUTHEAST CORNER
1 1/2" = 1'-0"

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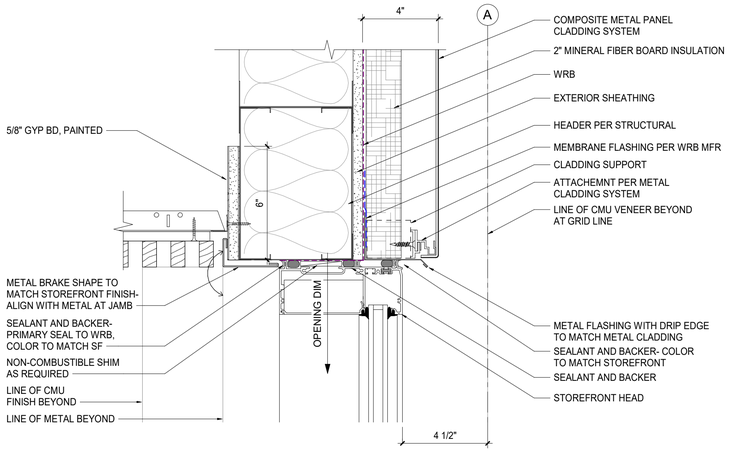
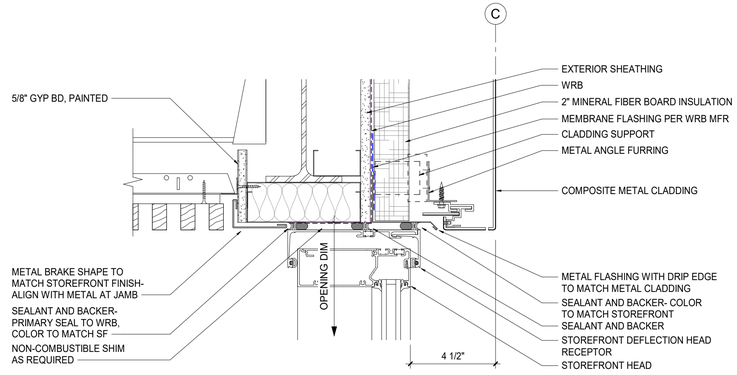
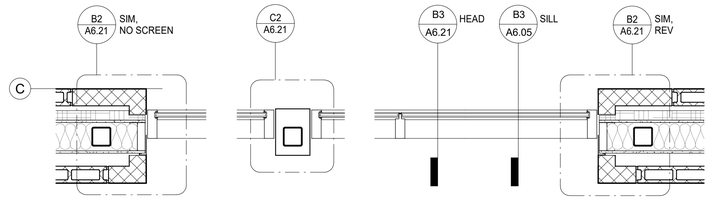
A6.11



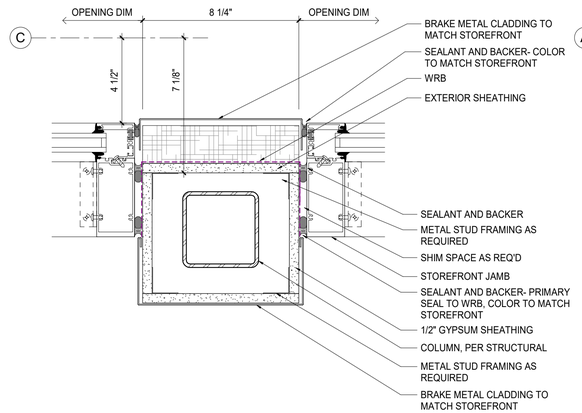
C3 STOREFRONT HEAD- NORTH AT METAL PANEL
3" = 1'-0"



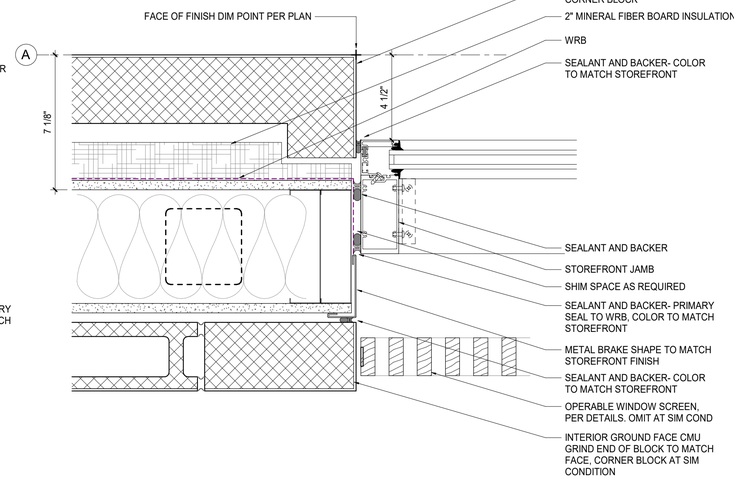
B3 STOREFRONT HEAD- SOUTH AT METAL FASCIA
3" = 1'-0"



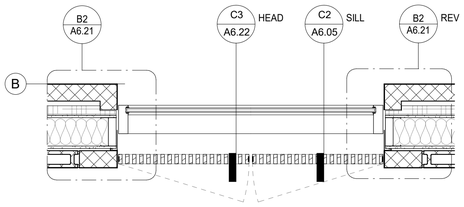
A4 LOUNGE 104 STOREFRONT
3/4" = 1'-0"



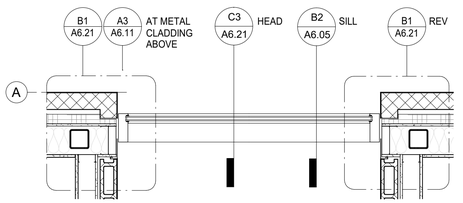
C2 LOUNGE 104 CENTER JAMB
3" = 1'-0"



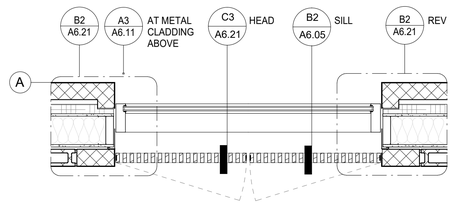
B2 STOREFRONT JAMB- CMU VENEER EACH SIDE OF WALL
3" = 1'-0"



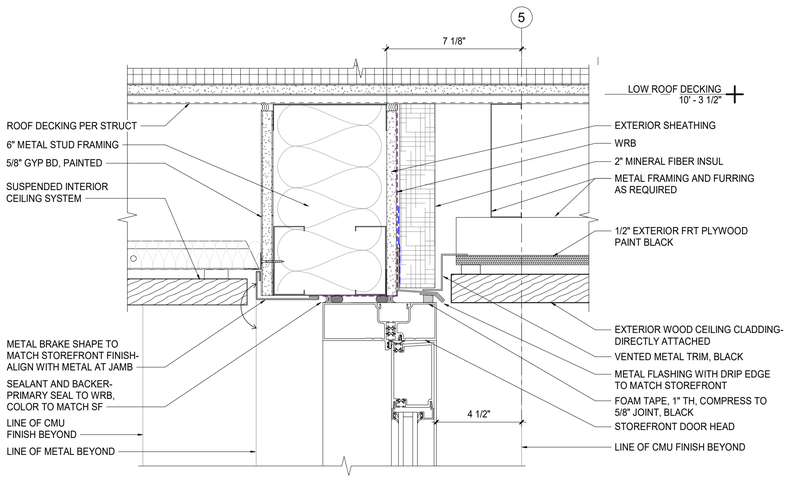
A3 STAFF 114 WINDOW
3/4" = 1'-0"



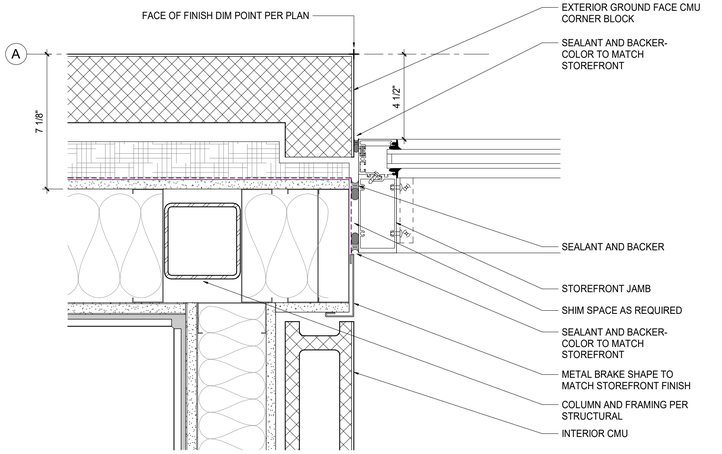
A2 HALL 105 WINDOW
3/4" = 1'-0"



A1 TYPICAL OFFICE WINDOW
3/4" = 1'-0"



C1 HEAD DETAIL AT DOOR 104-1
3" = 1'-0"



B1 STOREFRONT JAMB- PERPENDICULAR INTERIOR CMU
3" = 1'-0"

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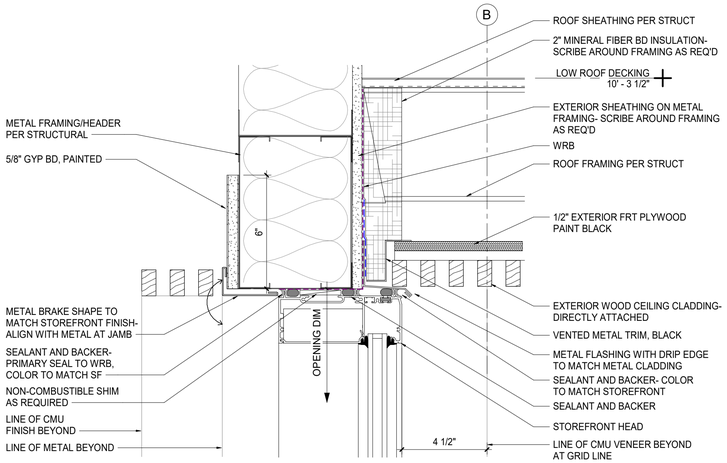
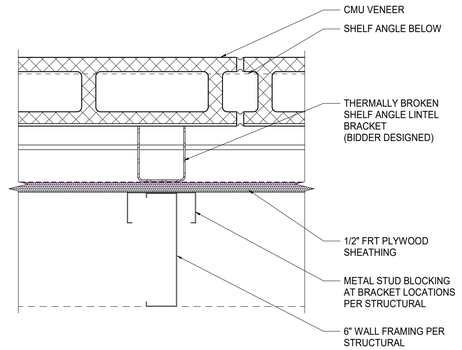
EXTERIOR DETAILS

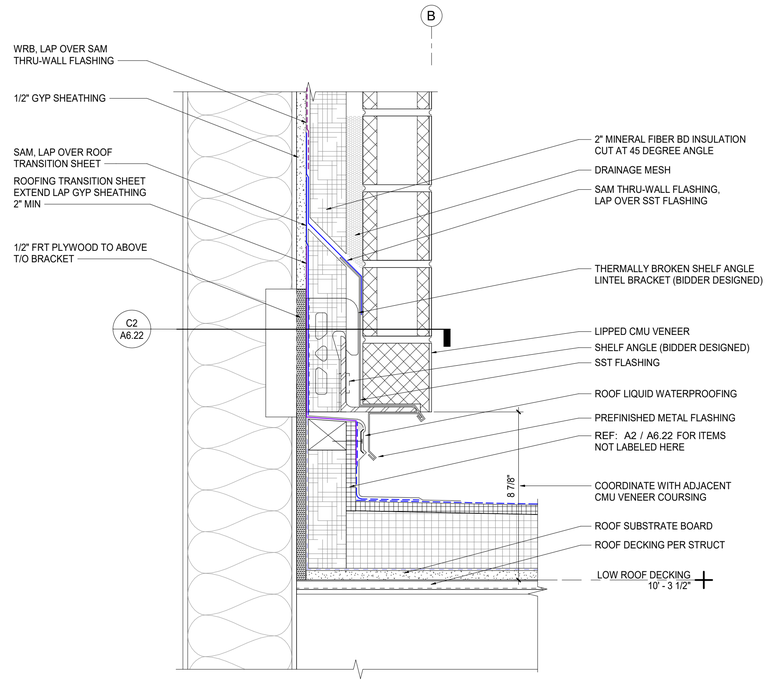
A6.21



C3 STAFF 114 WINDOW HEAD
3" = 1'-0"



C2 PLAN DETAIL AT SHELF ANGLE BRACKET
3" = 1'-0"



B2 SHELF ANGLE AT LOW ROOF
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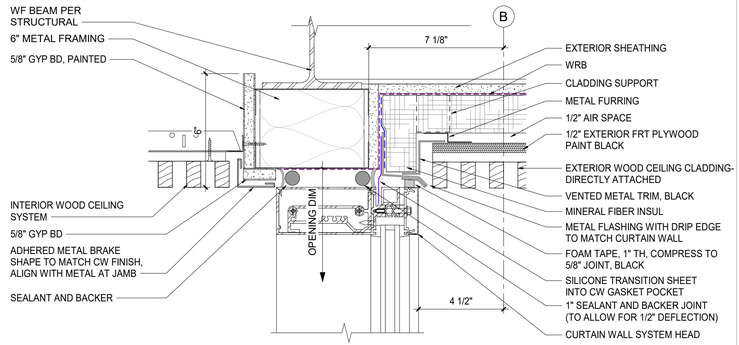
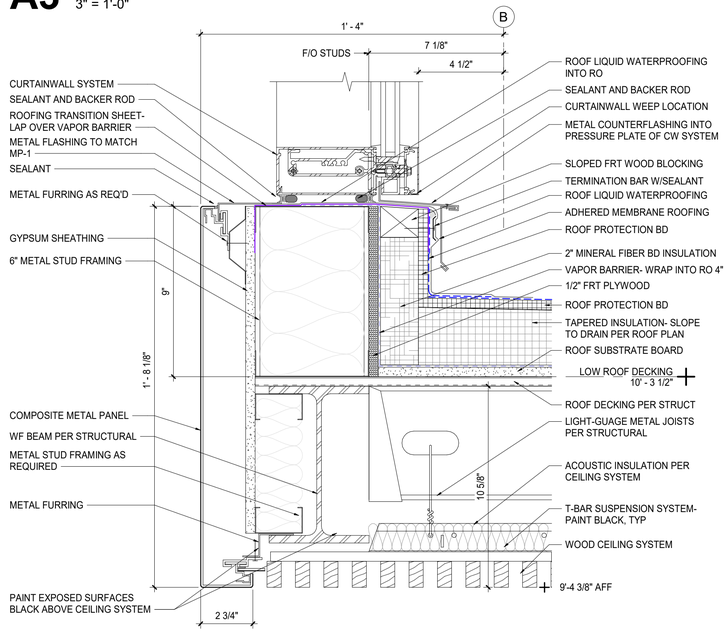
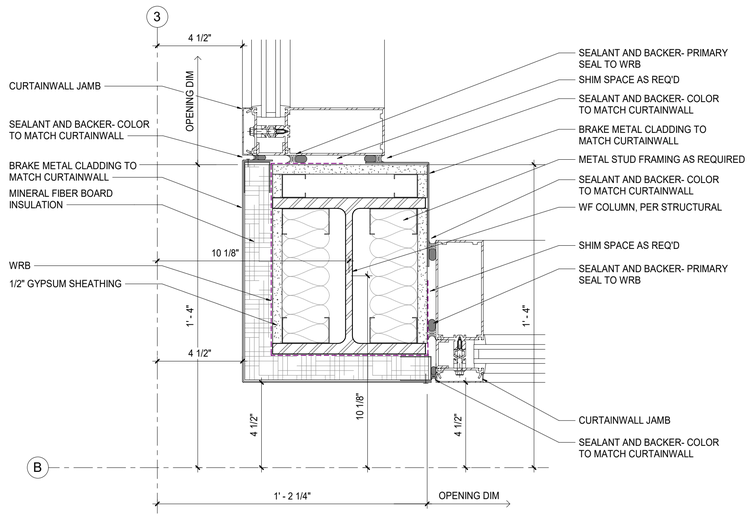


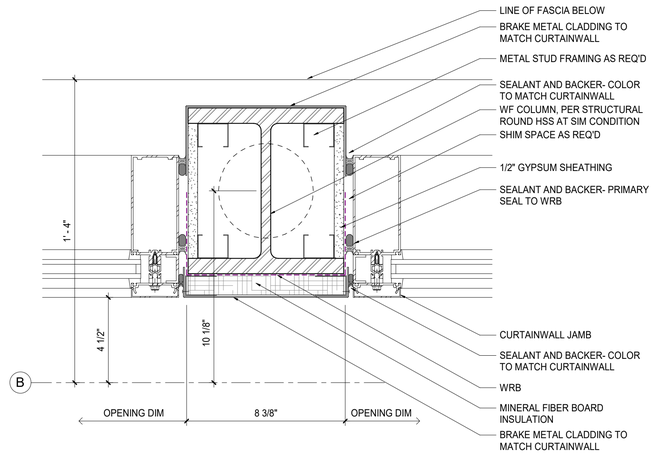
A3 CURTAIN WALL HEAD AT NORTH/SOUTH
3" = 1'-0"



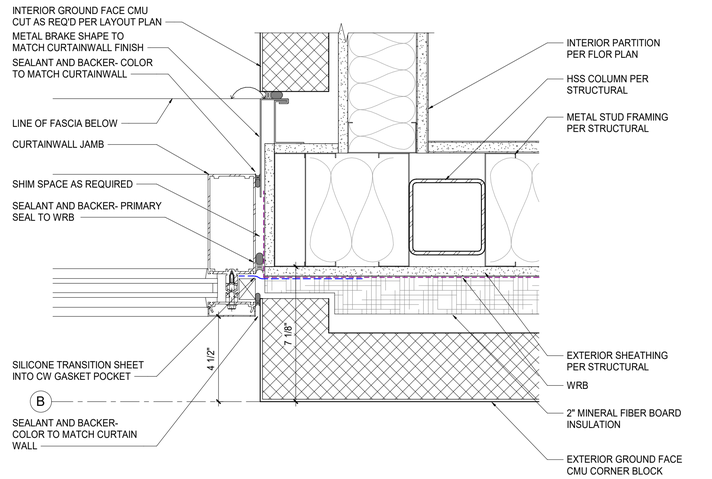
A2 CURTAIN WALL SILL AT CLERESTORY
3" = 1'-0"



C1 CURTAIN WALL TO CURTAINWALL JAMB @ CLERESTORY
3" = 1'-0"



B1 CURTAIN WALL JAMB AT CLERESTORY
3" = 1'-0"



A1 CURTAIN WALL JAMB AT CLERESTORY BRICK
3" = 1'-0"

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THPRD HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02.10.2026
DRAWN BY: BTS

BID SET

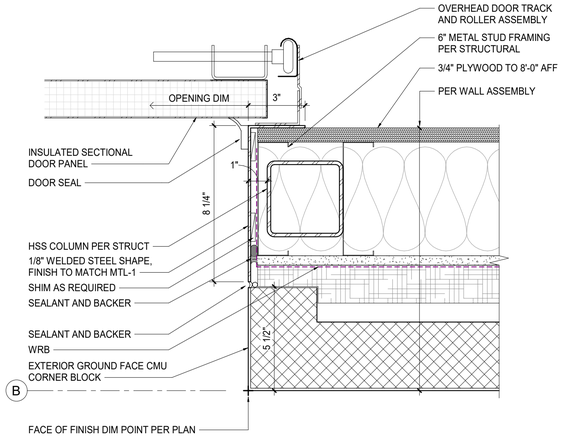
REVISION:

STAMP

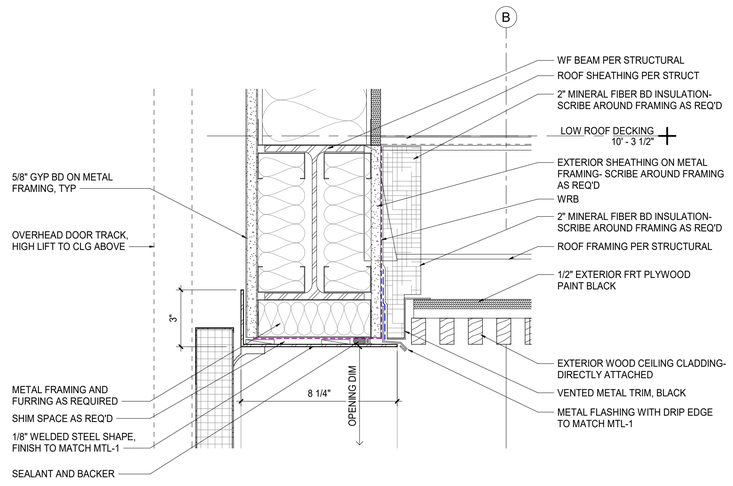
REGISTERED ARCHITECT
CORNELL A. ANDERSON
PORTLAND, OREGON
5029
STATE OF OREGON

EXTERIOR DETAILS

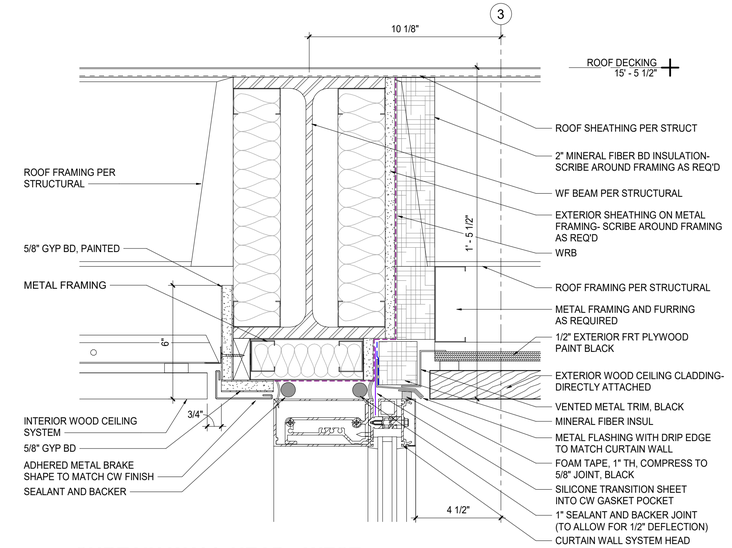
A6.22



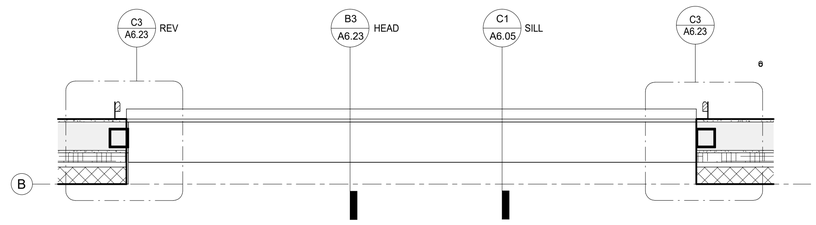
C3 OVERHEAD DOOR JAMB
3" = 1'-0"



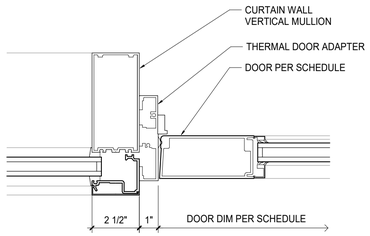
B3 OVERHEAD DOOR HEAD
3" = 1'-0"



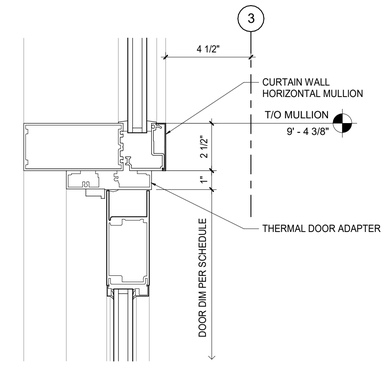
A3 CURTAIN WALL HEAD - WEST
3" = 1'-0"



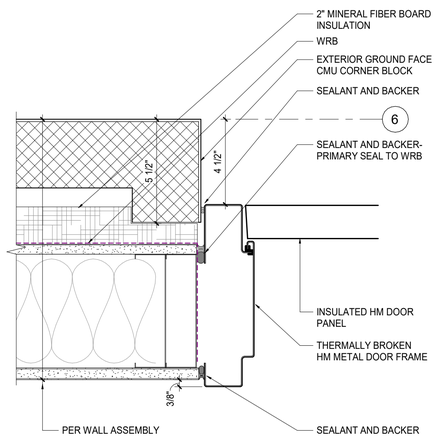
C2 STORAGE 150 OVERHEAD DOOR
3/4" = 1'-0"



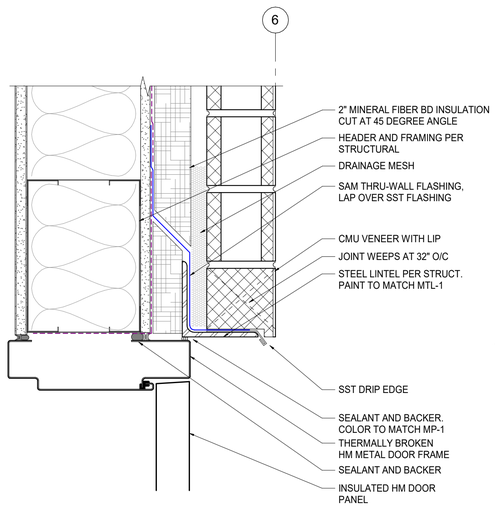
B2 DOOR JAMB AT CW
3" = 1'-0"



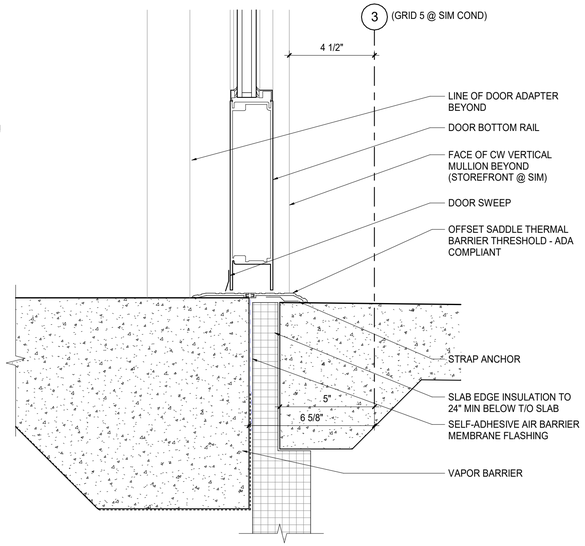
A2 DOOR HEAD AT CURTAIN WALL
3" = 1'-0"



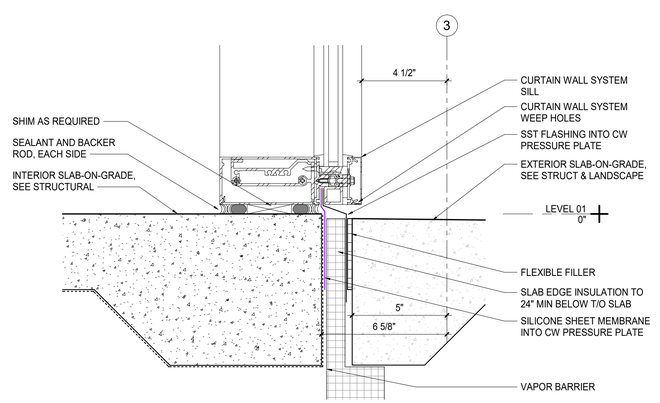
D1 HM EXTERIOR DOOR JAMB
3" = 1'-0"



C1 HM EXTERIOR DOOR HEAD
3" = 1'-0"



B1 DOOR SILL AT CURTAIN WALL
3" = 1'-0"



A1 CURTAIN WALL SILL - WEST
3" = 1'-0"

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BID SET

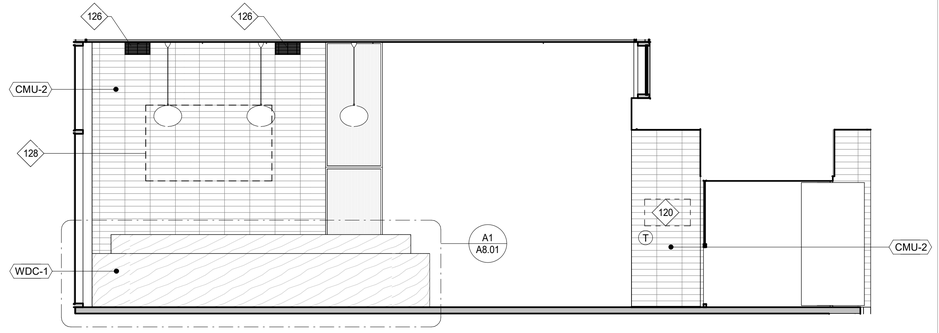
REVISION:

STAMP

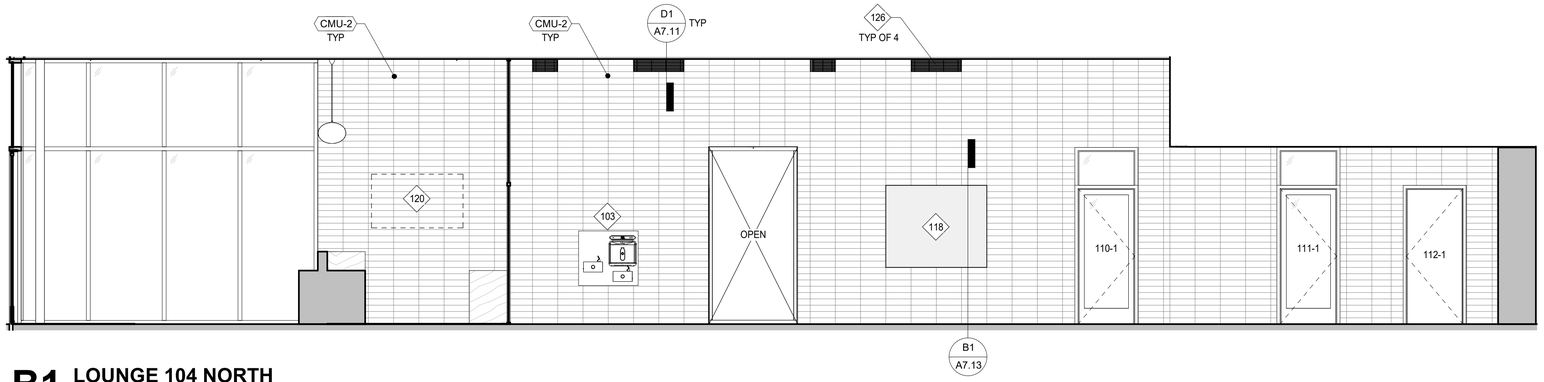
REGISTERED ARCHITECT
CORNELL A. ANDERSON
PORTLAND, OREGON
5029
STATE OF OREGON

EXTERIOR DETAILS

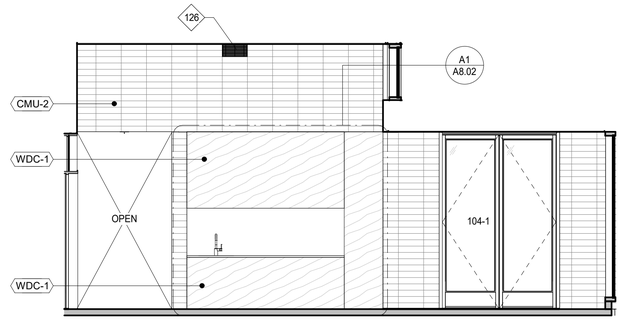
A6.23



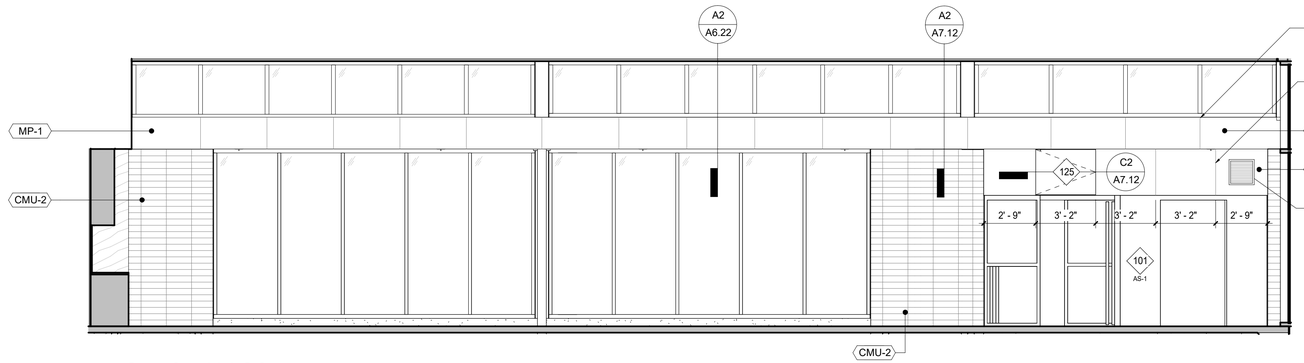
A1 ENTRY 101 EAST
1/4" = 1'-0"



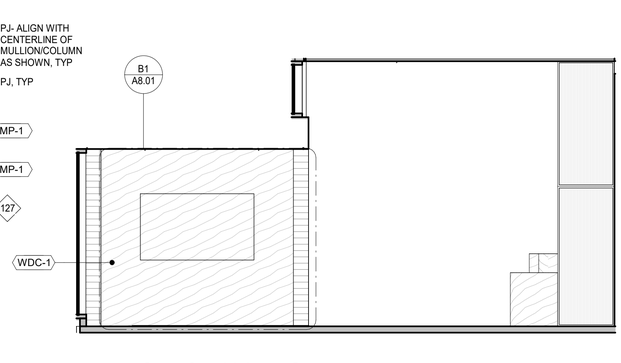
B1 LOUNGE 104 NORTH
1/4" = 1'-0"



B2 LOUNGE 104 EAST
1/4" = 1'-0"



B3 LOUNGE 104 SOUTH
1/4" = 1'-0"



B4 LOUNGE 104 WEST
1/4" = 1'-0"

INTERIOR MATERIALS

PC-1	POLISHED INTERIOR CONCRETE
CON-2	NON-POLISHED INTERIOR CONCRETE W/ TR-2 COATING
CMU-2	GROUND FACE CMU VENEER (INTERIOR)
MTL-1	METAL STRUCTURE & FABRICATIONS - PAINTED
MTL-2	METAL CLADDING & FLASHING - PREFINISHED
MP-1	METAL PANEL SYSTEM
WD-2	LINEAR WOOD CEILING WITH ACOUSTIC INSULATION
WDC-1	WOOD CASEWORK
P-1	PAINT - COLOR 1
P-2	PAINT - COLOR 2
P-3	EPOXY PAINT - COLOR 1
SS-1	SOLID SURFACE COUNTERTOP - 3CM
SS-2	SOLID SURFACE BACKSPLASH - 2CM
CPT-1	CARPET TILE 1
CPT-2	CARPET TILE 2
CPT-3	CARPET TILE 3
WB-1	WALL BASE : 4" MDF - SURFACE MOUNTED
RB-1	RESILIENT WALL BASE : 4"
TL-1	CERAMIC WALL TILE

GENERAL NOTES - INT. ELEVATIONS

A. CONTRACTOR IS RESPONSIBLE FOR ALL CODE REQUIRED WORK NOT SHOWN ON THIS DRAWING.

B. DIMENSIONS FOR ACCESSIBLE FIXTURES AND ACCESS TO FIXTURES SHALL BE MEASURED FROM FACE OF WALL FINISH

C. ALL INTERIOR WALLS. PARTITIONS AND COLUMNS TO RECEIVE FINISH.

D. CONTRACTOR TO PROVIDE SOLID WALL BLOCKING BEHIND ALL BATHROOM ACCESSORIES, CABINETRY/CASEWORK, FIRE EXTIGUISHER CABINETS, FIXTURES, EQUIPMENT, ETC...

E. REFERENCE INTERIOR DETAILS SHEETS FOR WALL BASE DETAILS AND OTHER TYPICAL DETAILS.

SHEET KEYNOTES

KEYNOTE	TEXT
101	ENTRY UNIT PROVIDED BY AIR STRUCTURE SUPPLIER, INSTALLED BY CONTRACTOR. PAINT TO MATCH MTL-1
103	HIGH-LOW WATER FOUNTAIN WITH BOTTLE FILLER
118	RECESSED TACKBOARD PER DETAILS. ALIGN WITH CMU LAYOUT AS SHOWN
120	WALL-MOUNTED TV MONITOR / INFORMATION DISPLAY. RECESSED MEDIA BOX SET INTO WALL WITH POWER/DATA CONNECTIONS. COORDINATE LOCATION WITH OWNER AND ARCHITECT
125	37" WIDE (MIN) ACCESS PANEL INTGRATED INTO METAL PANEL CLADDING
126	MECHANICAL SUPPLY/RETURN GRILLE. REF: MECHANICAL DRAWINGS. GRILLES TO ALIGN WITH CMU VENEER AS SHOWN
127	MECHANICAL SUPPLY/RETURN GRILLE. REF: MECHANICAL DRAWINGS. CENTER ON METAL PANEL AS SHOWN
128	APPROXIMATE NON-ILLUMINATED SIGNAGE LOCATION, OWNER-FURNISHED CONTRACTOR-INSTALLED.

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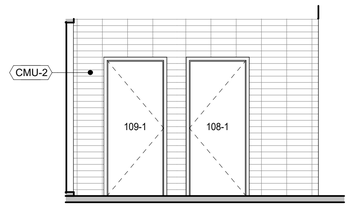
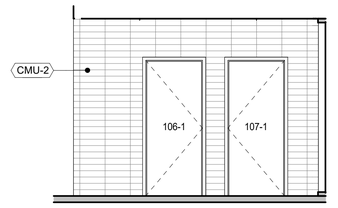
REGISTERED ARCHITECT
CORNELL A. ANDERSON
PORTLAND, OREGON
5029
STATE OF OREGON

INTERIOR ELEVATIONS

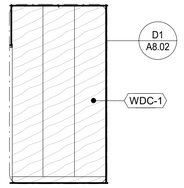
A7.01



A1 HALL 105 EAST
1/4" = 1'-0"

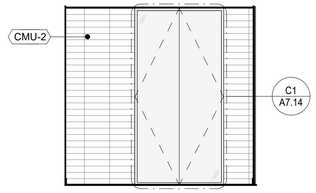


A2 HALL 105 WEST
1/4" = 1'-0"

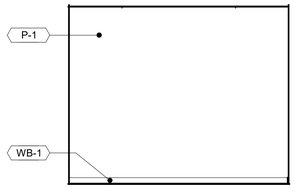


B1 HALL 113 EAST
1/4" = 1'-0"

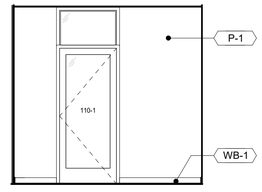
B2 HALL 113 SOUTH
1/4" = 1'-0"



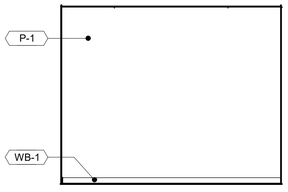
C1 OFFICE NORTH
1/4" = 1'-0"



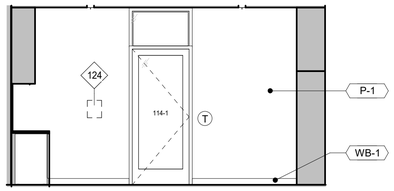
C2 OFFICE EAST
1/4" = 1'-0"



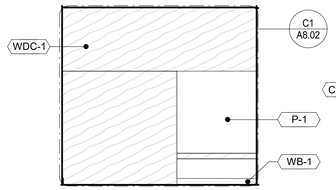
C3 OFFICE SOUTH
1/4" = 1'-0"



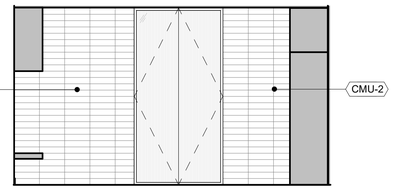
C4 OFFICE WEST
1/4" = 1'-0"



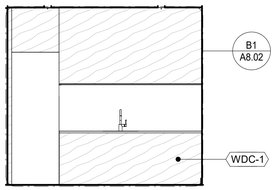
D1 STAFF 114 NORTH
1/4" = 1'-0"



D2 STAFF 114 EAST
1/4" = 1'-0"



D3 STAFF 114 SOUTH
1/4" = 1'-0"



D4 STAFF 114 WEST
1/4" = 1'-0"

INTERIOR MATERIALS

- PC-1 POLISHED INTERIOR CONCRETE
- CON-2 NON-POLISHED INTERIOR CONCRETE W/ TR-2 COATING
- CMU-2 GROUND FACE CMU VENEER (INTERIOR)
- MTL-1 METAL STRUCTURE & FABRICATIONS - PAINTED
- MTL-2 METAL CLADDING & FLASHING - PREFINISHED
- MP-1 METAL PANEL SYSTEM
- WD-2 LINEAR WOOD CEILING WITH ACOUSTIC INSULATION
- WDC-1 WOOD CASEWORK
- P-1 PAINT - COLOR 1
- P-2 PAINT - COLOR 2
- P-3 EPOXY PAINT - COLOR 1
- SS-1 SOLID SURFACE COUNTERTOP - 3CM
- SS-2 SOLID SURFACE BACKSPLASH - 2CM
- CPT-1 CARPET TILE 1
- CPT-2 CARPET TILE 2
- CPT-3 CARPET TILE 3
- WB-1 WALL BASE : 4" MDF - SURFACE MOUNTED
- RB-1 RESILIENT WALL BASE : 4"
- TL-1 CERAMIC WALL TILE

GENERAL NOTES - INT. ELEVATIONS

A. CONTRACTOR IS RESPONSIBLE FOR ALL CODE REQUIRED WORK NOT SHOWN ON THIS DRAWING.

B. DIMENSIONS FOR ACCESSIBLE FIXTURES AND ACCESS TO FIXTURES SHALL BE MEASURED FROM FACE OF WALL FINISH

C. ALL INTERIOR WALLS. PARTITIONS AND COLUMNS TO RECEIVE FINISH.

D. CONTRACTOR TO PROVIDE SOLID WALL BLOCKING BEHIND ALL BATHROOM ACCESSORIES, CABINETRY/CASEWORK, FIRE EXTIGUISHER CABINETS, FIXTURES, EQUIPMENT, ETC...

E. REFERENCE INTERIOR DETAILS SHEETS FOR WALL BASE DETAILS AND OTHER TYPICAL DETAILS.

SHEET KEYNOTES

KEYNOTE	TEXT
123	RECESSED FIRE EXTINGUISHER CABINET
124	WALL-MOUNTED TIME CLOCK, OFCI

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DRAWN BY: BTS

BID SET

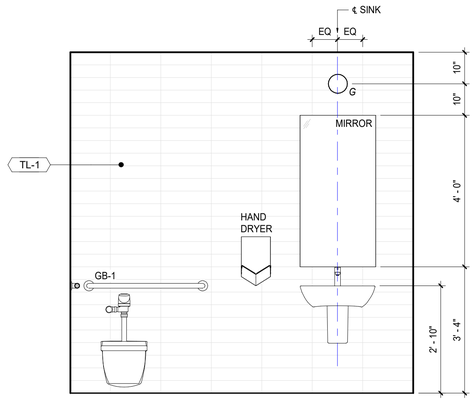
REVISION:

STAMP

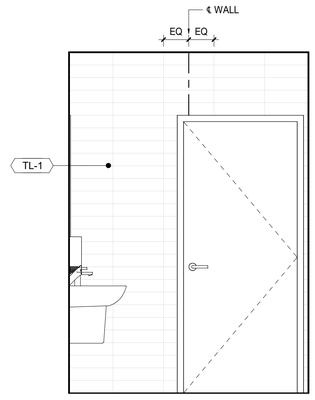
REGISTERED ARCHITECT
CORNELL A. ANDERSON
PORTLAND, OREGON
5029
STATE OF OREGON

INTERIOR ELEVATIONS

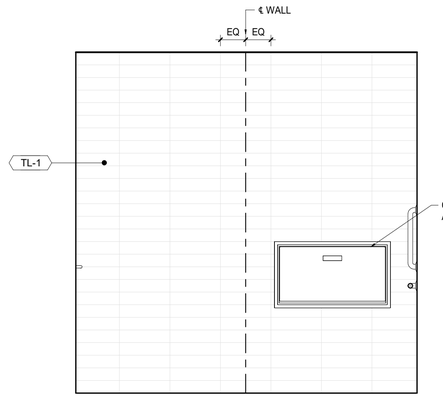
A7.02



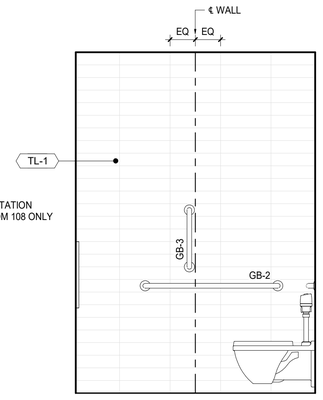
A1 ACC. RESTROOM SOUTH
1/2" = 1'-0"



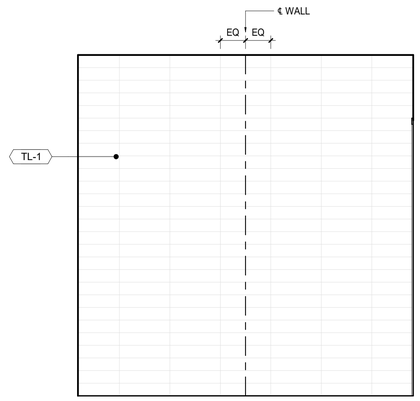
A2 ACC. RESTROOM WEST
1/2" = 1'-0"



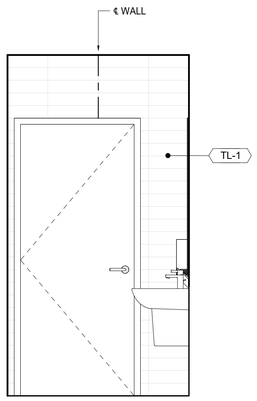
A3 ACC. RESTROOM NORTH
1/2" = 1'-0"



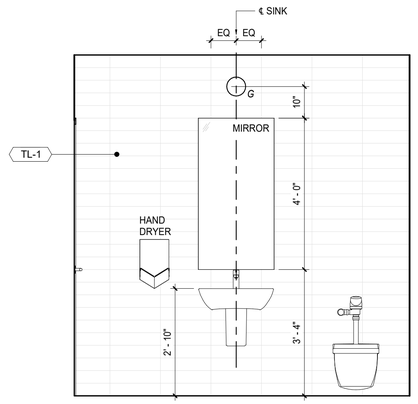
A4 ACC. RESTROOM EAST
1/2" = 1'-0"



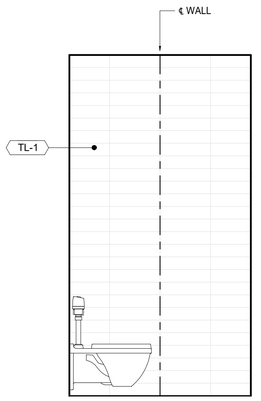
B1 RESTROOM SOUTH
1/2" = 1'-0"



B2 RESTROOM WEST
1/2" = 1'-0"



B3 RESTROOM NORTH
1/2" = 1'-0"



B4 RESTROOM EAST
1/2" = 1'-0"

INTERIOR MATERIALS

PC-1	POLISHED INTERIOR CONCRETE
CON-2	NON-POLISHED INTERIOR CONCRETE W/ TR-2 COATING
CMU-2	GROUND FACE CMU VENEER (INTERIOR)
MTL-1	METAL STRUCTURE & FABRICATIONS - PAINTED
MTL-2	METAL CLADDING & FLASHING - PREFINISHED
MP-1	METAL PANEL SYSTEM
WD-2	LINEAR WOOD CEILING WITH ACOUSTIC INSULATION
WDC-1	WOOD CASEWORK
P-1	PAINT - COLOR 1
P-2	PAINT - COLOR 2
P-3	EPOXY PAINT - COLOR 1
SS-1	SOLID SURFACE COUNTERTOP - 3CM
SS-2	SOLID SURFACE BACKSPLASH - 2CM
CPT-1	CARPET TILE 1
CPT-2	CARPET TILE 2
CPT-3	CARPET TILE 3
WB-1	WALL BASE : 4" MDF - SURFACE MOUNTED
RB-1	RESILIENT WALL BASE : 4"
TL-1	CERAMIC WALL TILE

GENERAL NOTES - INT. ELEVATIONS

A. CONTRACTOR IS RESPONSIBLE FOR ALL CODE REQUIRED WORK NOT SHOWN ON THIS DRAWING.

B. DIMENSIONS FOR ACCESSIBLE FIXTURES AND ACCESS TO FIXTURES SHALL BE MEASURED FROM FACE OF WALL FINISH

C. ALL INTERIOR WALLS, PARTITIONS AND COLUMNS TO RECEIVE FINISH.

D. CONTRACTOR TO PROVIDE SOLID WALL BLOCKING BEHIND ALL BATHROOM ACCESSORIES, CABINETRY/CASEWORK, FIRE EXTIGUISHER CABINETS, FIXTURES, EQUIPMENT, ETC...

E. REFERENCE INTERIOR DETAILS SHEETS FOR WALL BASE DETAILS AND OTHER TYPICAL DETAILS.

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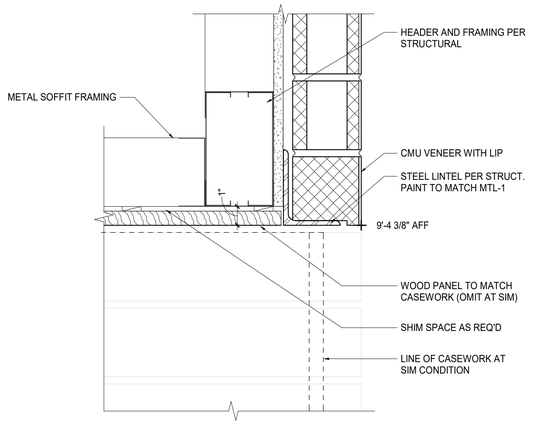
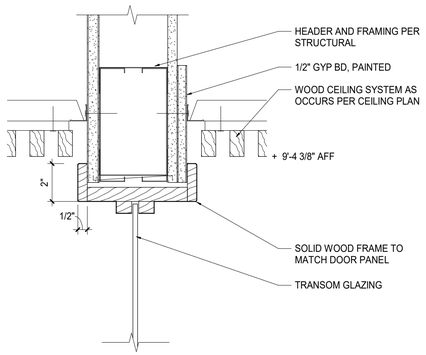
CORNELL A. ANDERSON
PORTLAND, OREGON
5029
STATE OF OREGON

INTERIOR ELEVATIONS

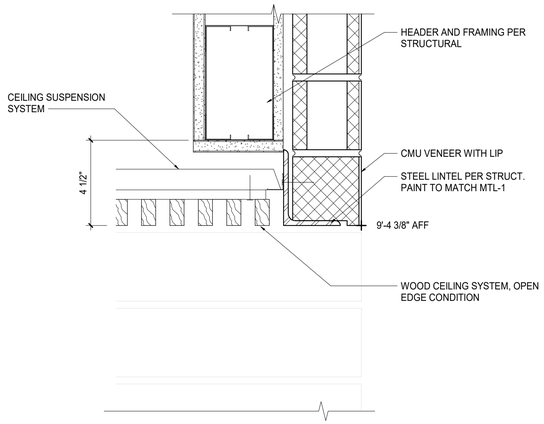
A7.03



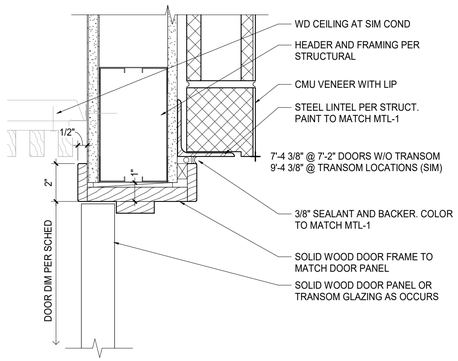
C3 CASEWORK WOOD CEILING AT CMU
3" = 1'-0"



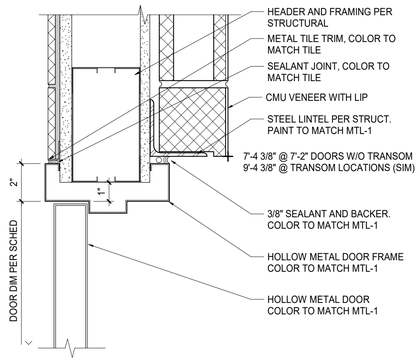
B3 INTERIOR WD TRANSOM AT WD CEILING
3" = 1'-0"



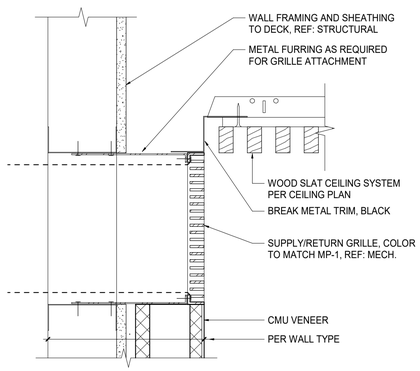
C2 INTERIOR WOOD CEILING AT CMU OPENING
3" = 1'-0"



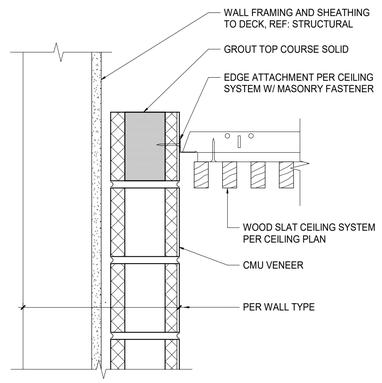
B2 INTERIOR WD DOOR HEAD AT CMU
3" = 1'-0"



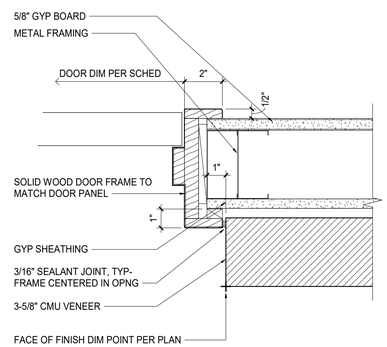
A2 INTERIOR HM DOOR HEAD AT CMU
3" = 1'-0"



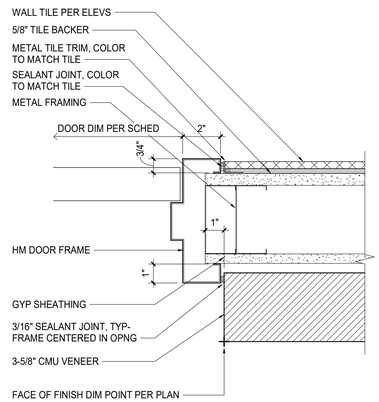
D1 MECHANICAL GRILLE AT CMU
3" = 1'-0"



C1 INTERIOR WOOD CEILING EDGE AT CMU
3" = 1'-0"



B1 INTERIOR WD DOOR JAMB AT CMU
3" = 1'-0"



A1 INTERIOR HM DOOR JAMB AT CMU
3" = 1'-0"

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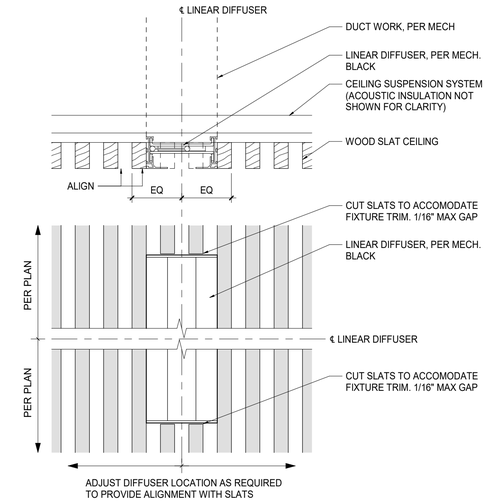
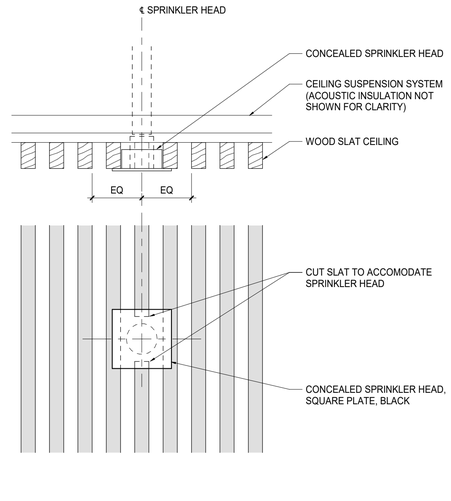
CORNELL A. ANDERSON
PORTLAND, OREGON
5029
STATE OF OREGON

INTERIOR DETAILS

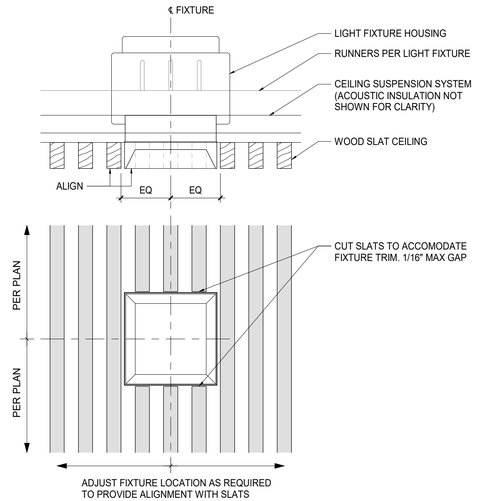
A7.11



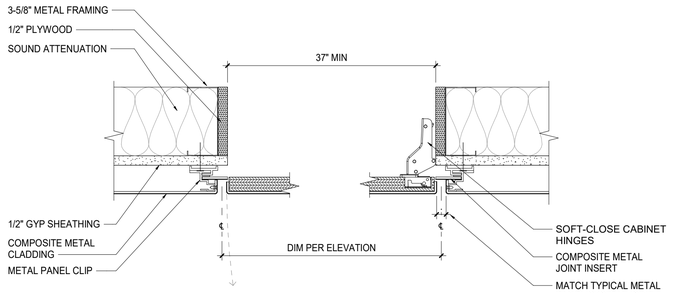
C3 WOOD CEILING - LINEAR DIFFUSER
3" = 1'-0"



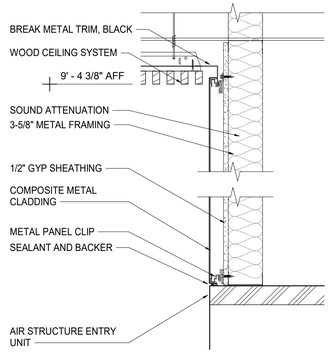
B3 WOOD CEILING - SPRINKLER HEAD
3" = 1'-0"



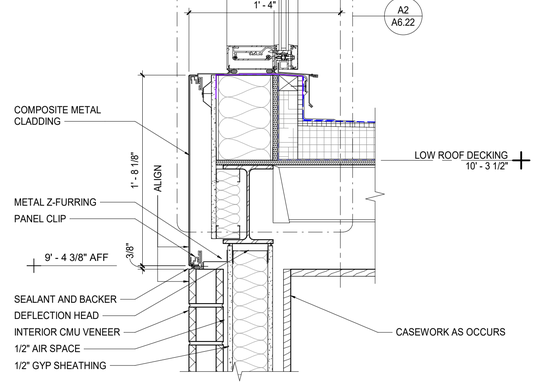
A3 WOOD CEILING - LIGHT FIXTURE
3" = 1'-0"



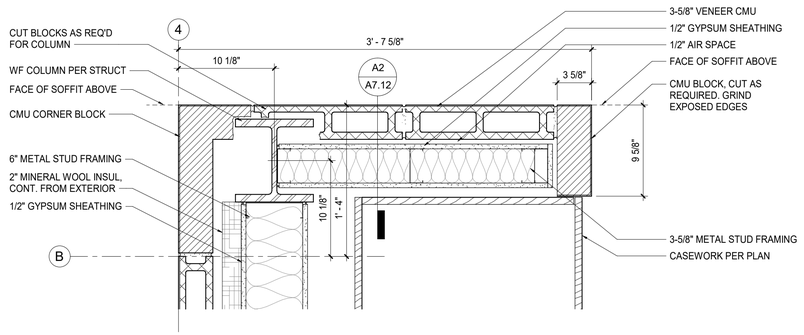
C2 METAL PANEL ACCESS DOOR
3" = 1'-0"



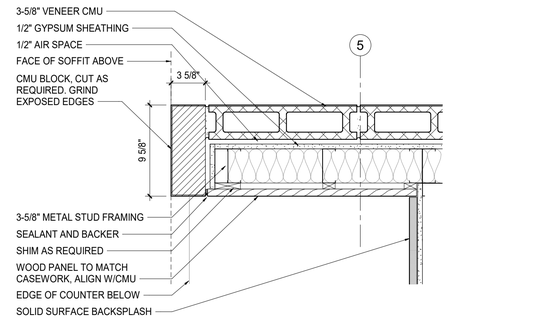
B2 INT. METAL AT AIR STRUCT. ENTRY
1 1/2" = 1'-0"



A2 INTERIOR METAL CLADDING TO CMU VENEER
1 1/2" = 1'-0"



B1 WALL DETAIL ADJACENT TO LOUNGE TV CASEWORK
1 1/2" = 1'-0"



A1 WALL DETAIL AT PUBLIC KITCHENETTE
1 1/2" = 1'-0"

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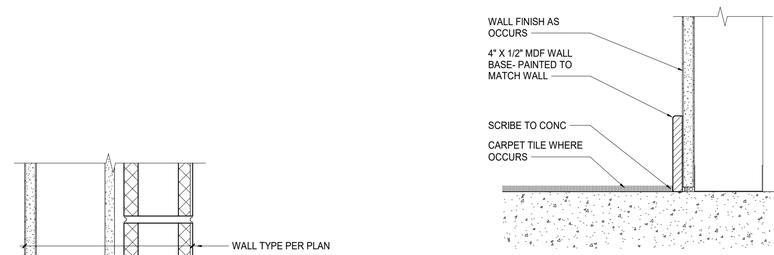
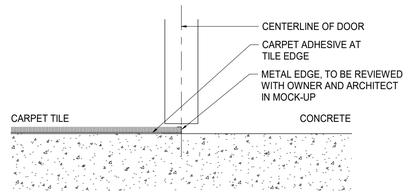
CORNELL A. ANDERSON
PORTLAND, OREGON
5029
STATE OF OREGON

INTERIOR DETAILS

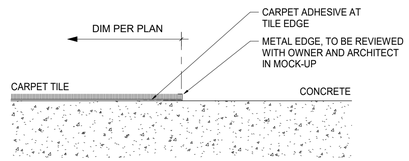
A7.12



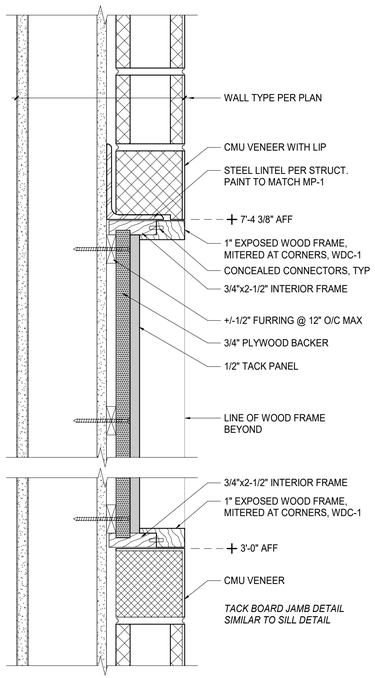
A3 TYPICAL WALL BASE - WB1
3" = 1'-0"



A2 TRANSITION - CPT TO CONC AT DOOR
3" = 1'-0"



A1 TRANSITION - CPT TO CONC
3" = 1'-0"



B1 RECESSED TACK BOARD SECTION DETAIL
3" = 1'-0"

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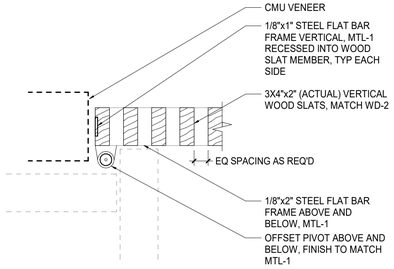
INTERIOR DETAILS

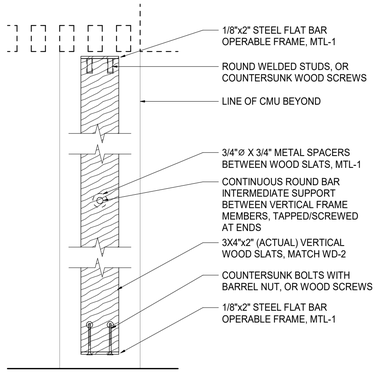
A7.13

NOTE:

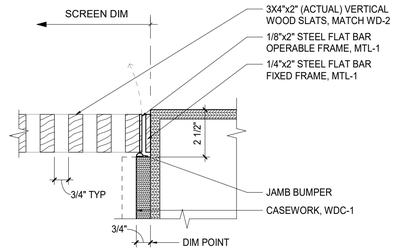
SCREEN DRAWINGS PROVIDED TO CONVEY DESIGN-INTENT. SCREENS TO BE BIDDER-DESIGNED AND REVIEWED BY OWNER AND ARCHITECT VIA SHOP DRAWINGS PRIOR TO FABRICATION. ENGINEER TO REVIEW CONNECTIONS TO BUILDING STRUCTURE AS REQUIRED



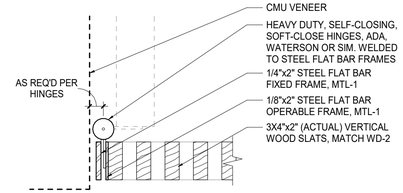
D4 WINDOW SCREEN JAMB
3" = 1'-0"



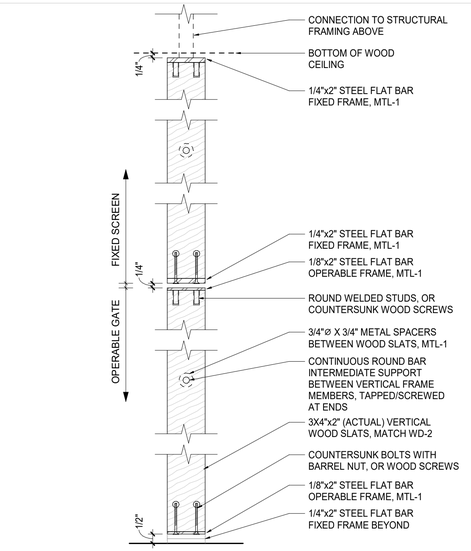
C2 WINDOW SCREEN SECTION
3" = 1'-0"



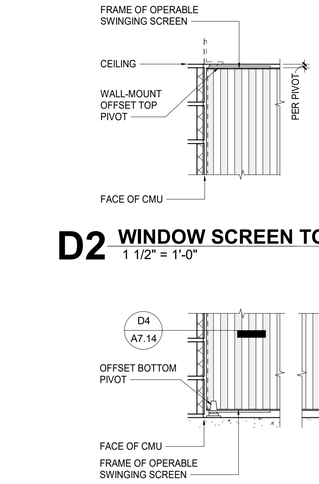
B5 SCREEN JAMB AT CASEWORK
3" = 1'-0"



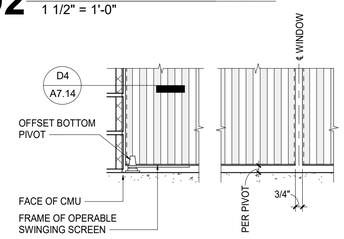
B4 SCREEN JAMB AT HINGE
3" = 1'-0"



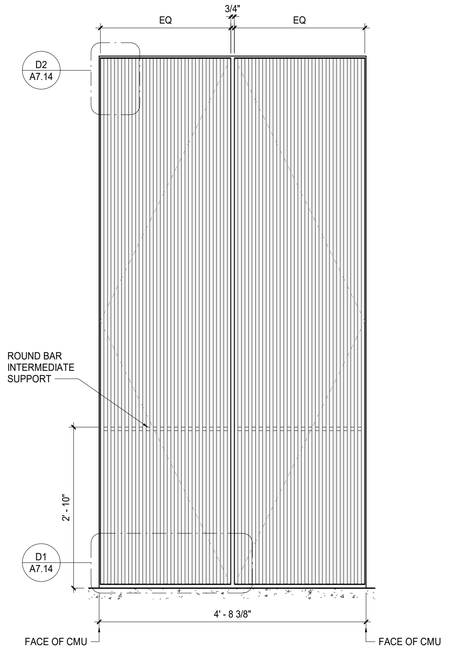
A2 SCREEN SECTION
3" = 1'-0"



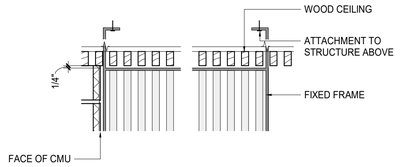
D2 WINDOW SCREEN TOP
1 1/2" = 1'-0"



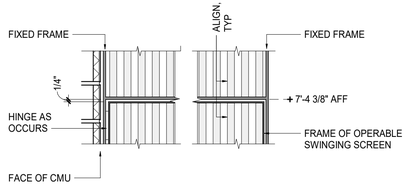
D1 WINDOW SCREEN BOTTOM
1 1/2" = 1'-0"



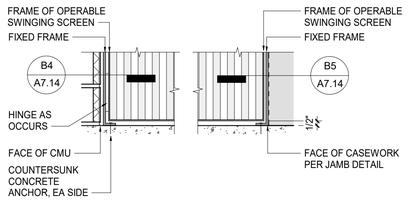
C1 WINDOW SCREEN ELEVATION
3/4" = 1'-0"



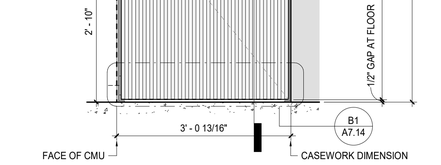
B3 SCREEN TOP ELEVATION
1 1/2" = 1'-0"



B2 SWING SCREEN TOP ELEVATION
1 1/2" = 1'-0"



B1 SCREEN BASE ELEVATION
1 1/2" = 1'-0"



A1 CHECK-IN SCREEN ELEVATION
3/4" = 1'-0"

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PORTLAND, OREGON
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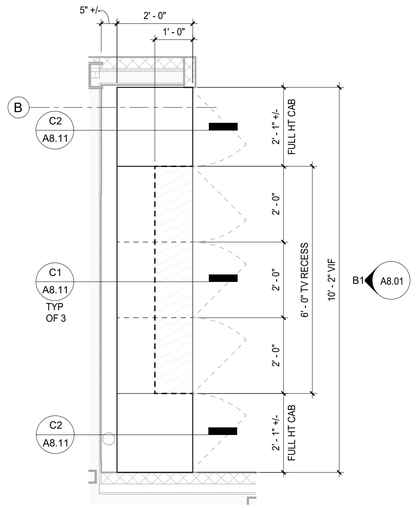
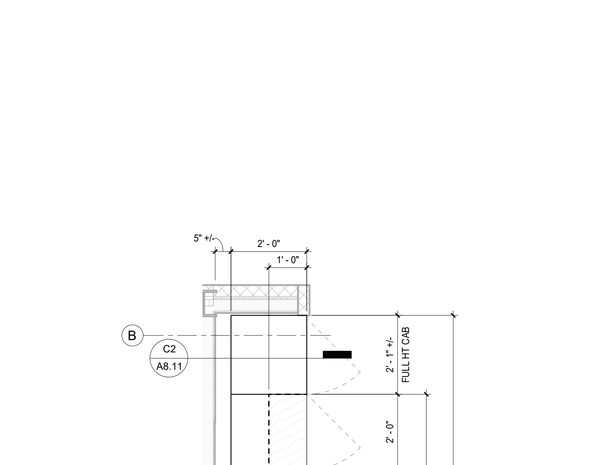
STATE OF OREGON

INTERIOR DETAILS

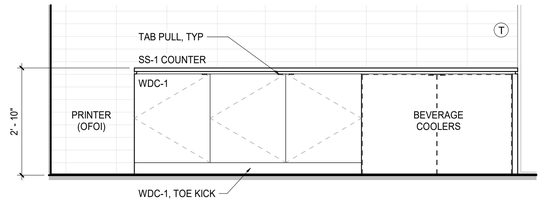
A7.14



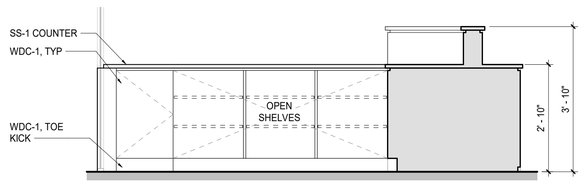
02 TV/STORAGE CASEWORK PLAN
1/2" = 1'-0"



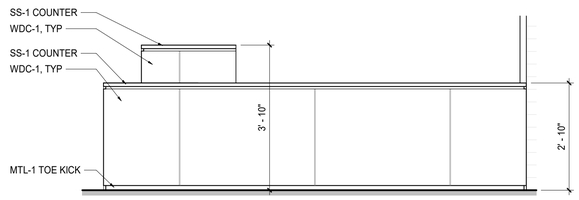
B1 LOUNGE 104 TV CASEWORK
1/2" = 1'-0"



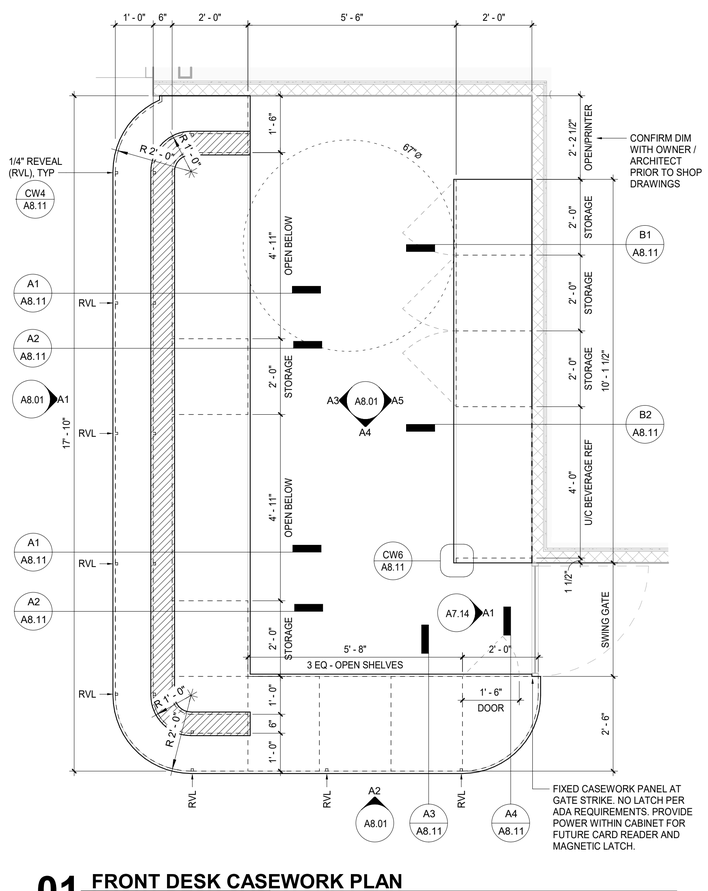
A5 CHECK-IN BACK CASEWORK
1/2" = 1'-0"



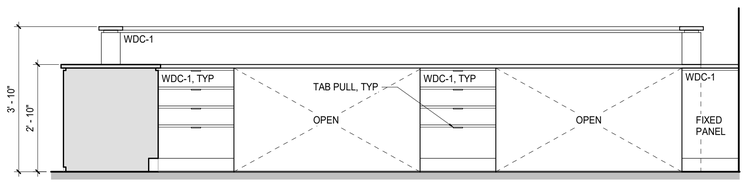
A4 CHECK-IN COUNTER- SIDE CASEWORK, EMPLOYEE
1/2" = 1'-0"



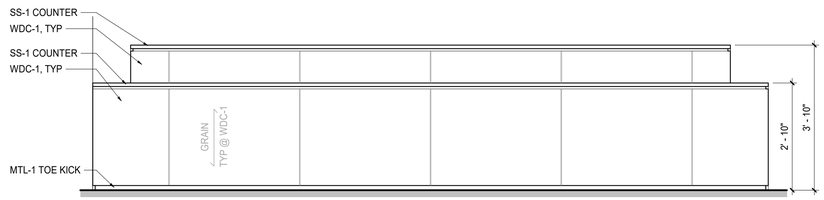
A2 CHECK-IN COUNTER- SIDE CASEWORK, PUBLIC
1/2" = 1'-0"



01 FRONT DESK CASEWORK PLAN
1/2" = 1'-0"



A3 CHECK-IN COUNTER- FRONT CASEWORK, EMPLOYEE
1/2" = 1'-0"



A1 CHECK-IN COUNTER- FRONT CASEWORK, PUBLIC
1/2" = 1'-0"

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15707 SW WALKER RD
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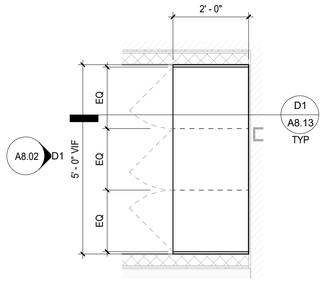
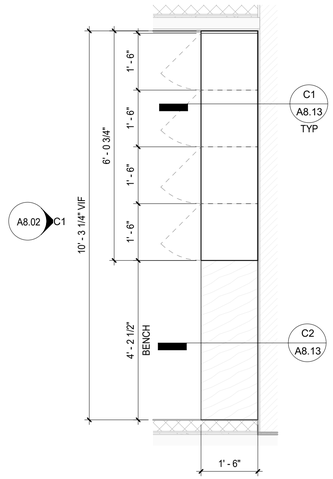
CASEWORK PLANS & ELEVATIONS

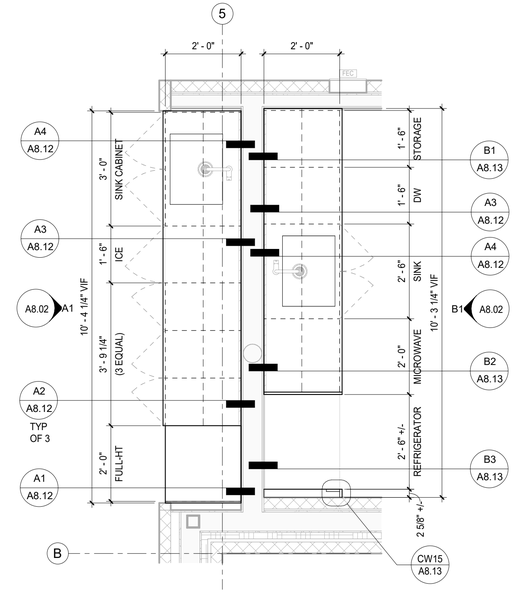
A8.01



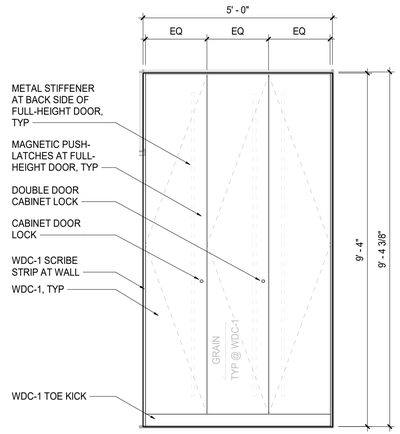
03 HALL CASEWORK PLAN
1/2" = 1'-0"



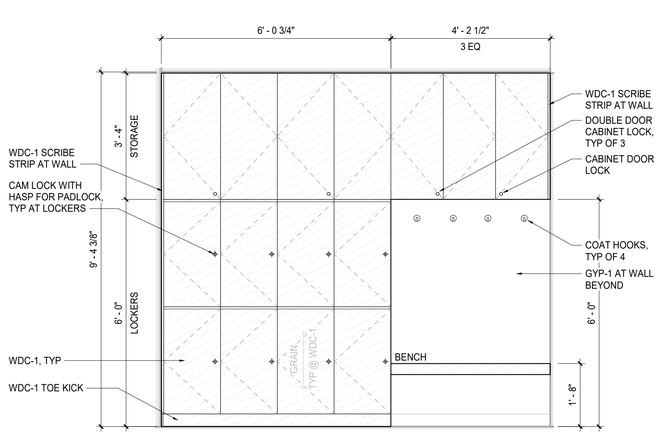
02 STAFF STORAGE CASEWORK PLAN
1/2" = 1'-0"



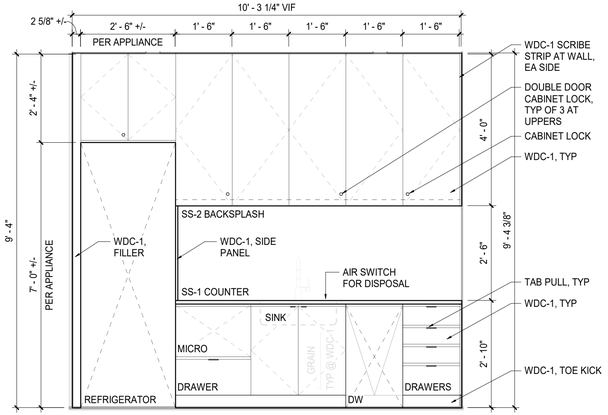
01 KITCHENETTES CASEWORK PLAN
1/2" = 1'-0"



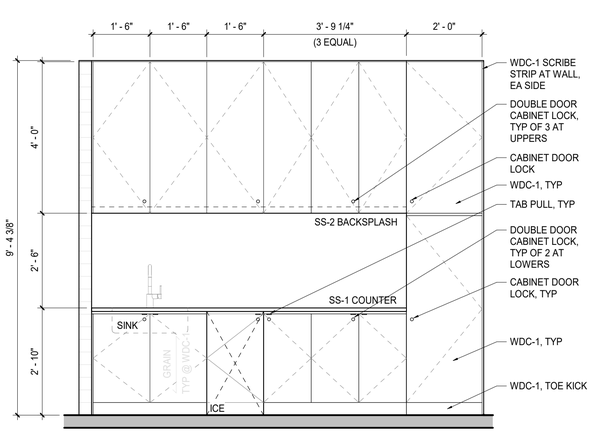
D1 HALL 113 CASEWORK
1/2" = 1'-0"



C1 STAFF STORAGE CASEWORK
1/2" = 1'-0"



B1 STAFF KITCHENETTE
1/2" = 1'-0"



A1 LOUNGE KITCHENETTE
1/2" = 1'-0"

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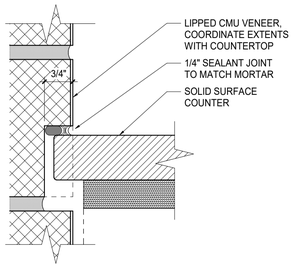
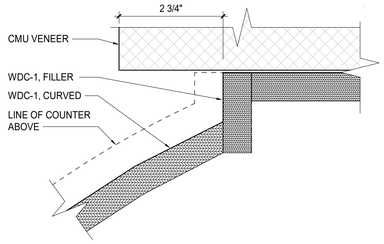
CORNELL A. ANDERSON
PORTLAND, OREGON
5029
STATE OF OREGON

CASEWORK PLANS & ELEVATIONS

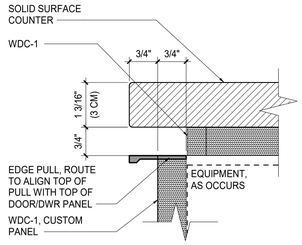
A8.02



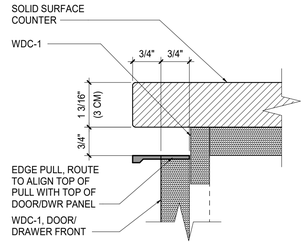
CW10 REAR COUNTER AT CMU
6" = 1'-0"



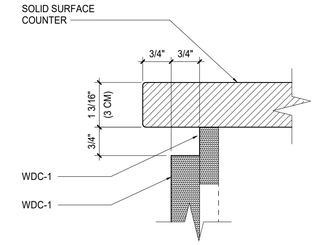
CW7 FILLER AT CHECK-IN - PLAN
6" = 1'-0"



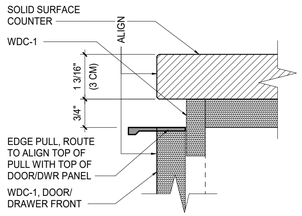
CW5 COUNTER EDGE AT EQUIP
6" = 1'-0"



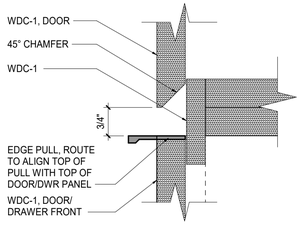
CW3 COUNTER EDGE AT DR/DWR
6" = 1'-0"



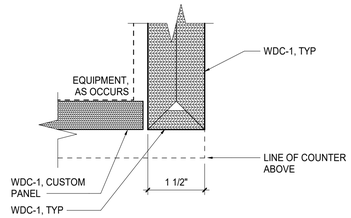
CW1 TYPICAL COUNTER EDGE
6" = 1'-0"



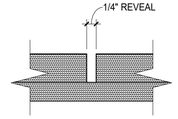
CW9 COUNTER EDGE AT TV RECESS
6" = 1'-0"



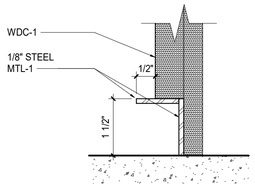
CW8 PULL AT UPPER/LOWER DR
6" = 1'-0"



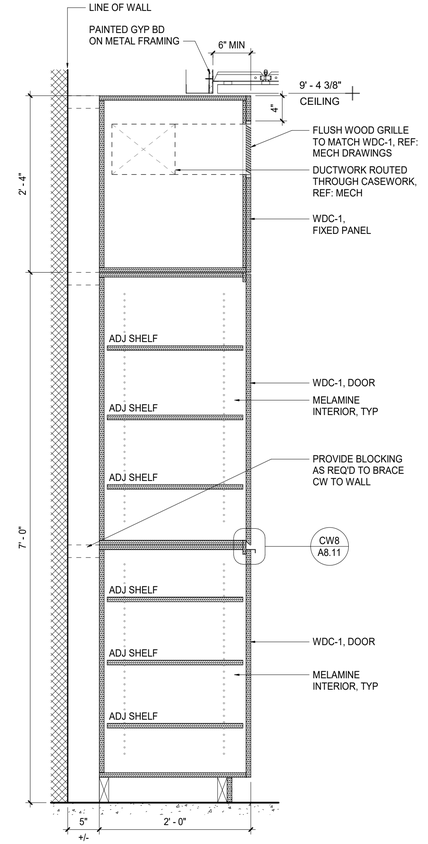
CW6 WOOD END PANEL
6" = 1'-0"



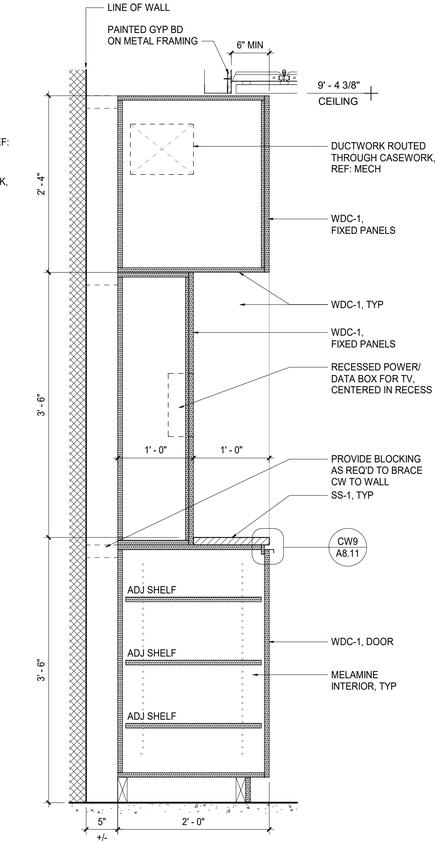
CW4 VERTICAL REVEAL
6" = 1'-0"



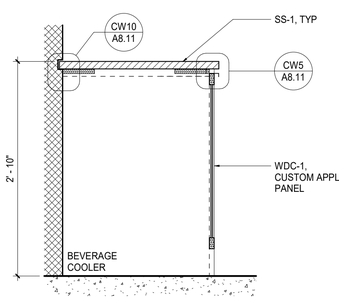
CW2 METAL TOE KICK
6" = 1'-0"



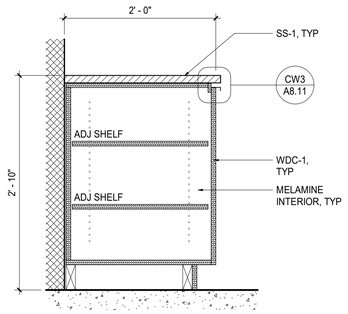
C2 TV CASEWORK 2
1" = 1'-0"



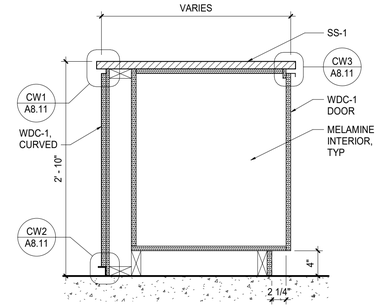
C1 TV CASEWORK 1
1" = 1'-0"



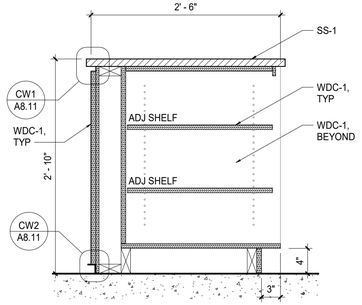
B2 CHECK-IN REAR 2
1" = 1'-0"



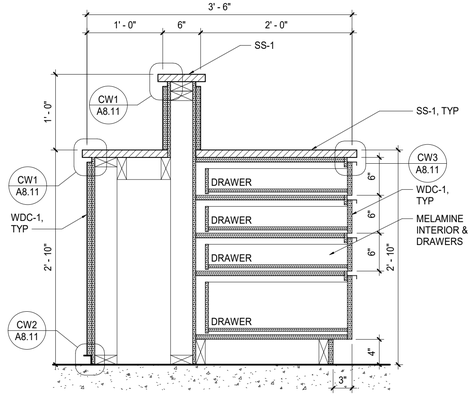
B1 CHECK-IN REAR 1
1" = 1'-0"



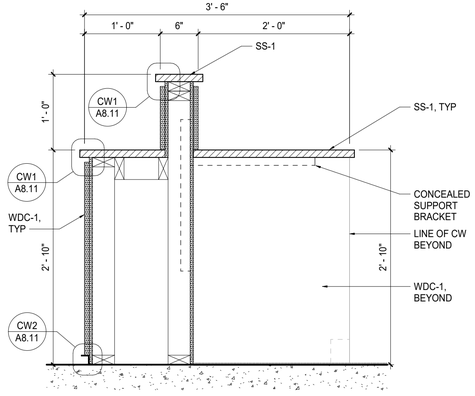
A4 CHECK-IN DESK 4
1" = 1'-0"



A3 CHECK-IN DESK 3
1" = 1'-0"



A2 CHECK-IN DESK 2
1" = 1'-0"



A1 CHECK-IN DESK 1
1" = 1'-0"

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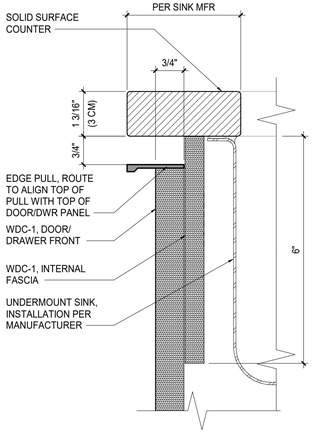
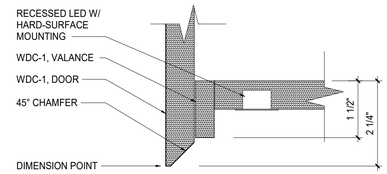
CORNELL A. ANDERSON
PORTLAND, OREGON
5029
STATE OF OREGON

CASEWORK DETAILS

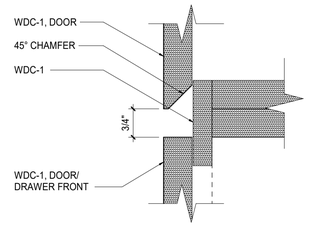
A8.11



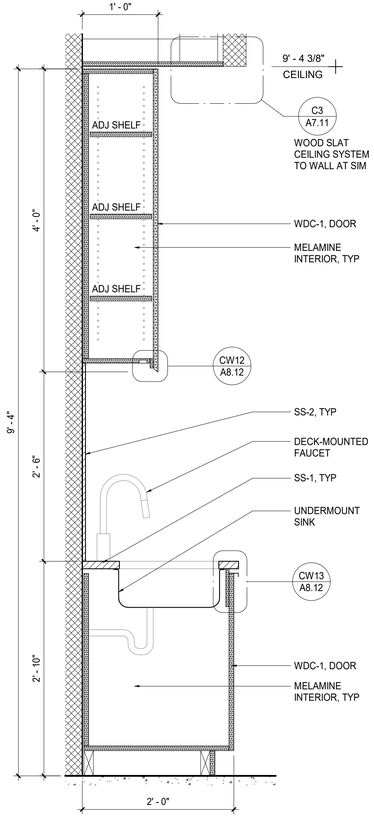
CW13 COUNTER EDGE AT SINK
6" = 1'-0"



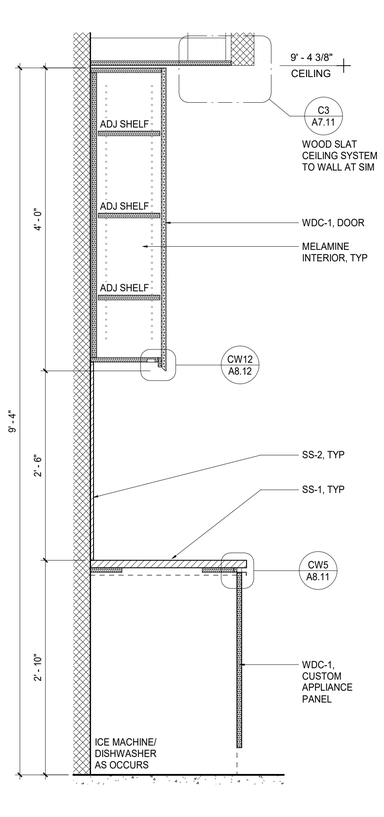
CW12 UNDER CABINET LIGHT
6" = 1'-0"



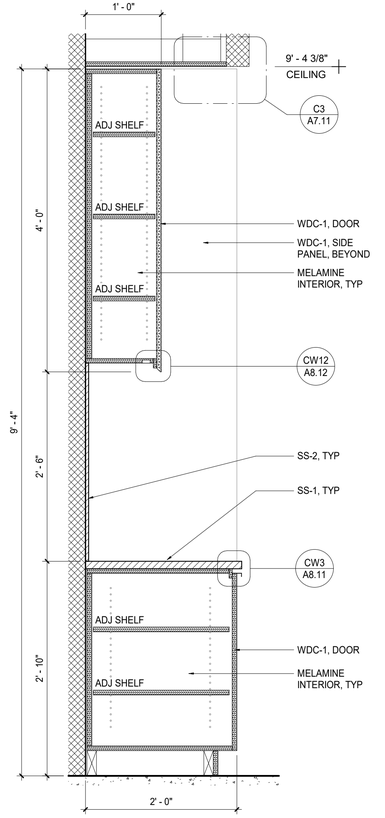
CW11 UPPER/LOWER DR REVEAL
6" = 1'-0"



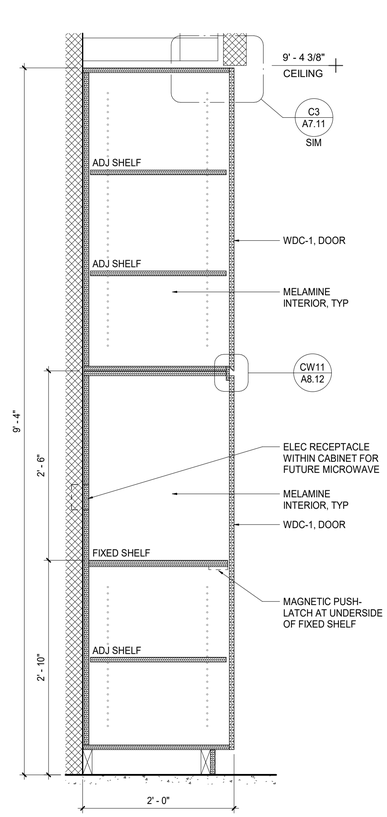
A4 KITCHENETTE 4
1" = 1'-0"



A3 KITCHENETTE 3
1" = 1'-0"



A2 LOUNGE KITCHENETTE 2
1" = 1'-0"



A1 LOUNGE KITCHENETTE 1
1" = 1'-0"

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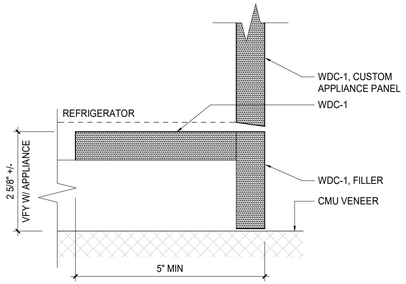
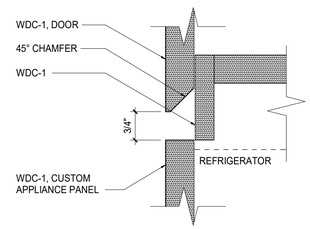
CASEWORK DETAILS

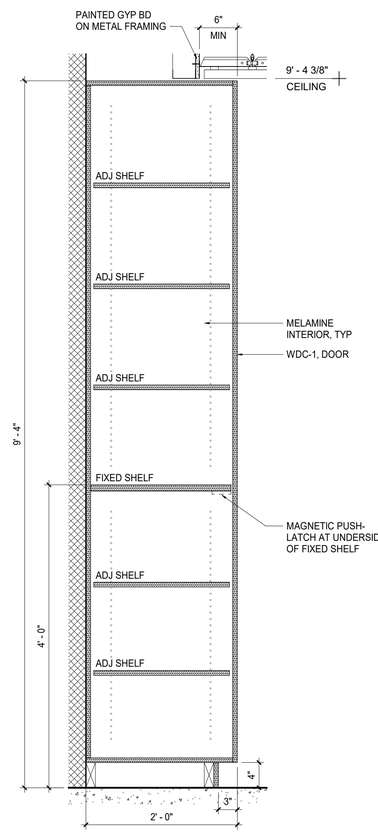
A8.12



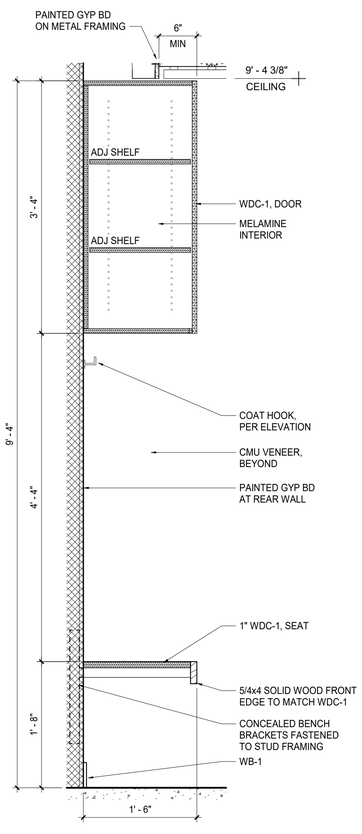
CW15 FILLER STRIP AT REFRIG - PLAN
6" = 1'-0"



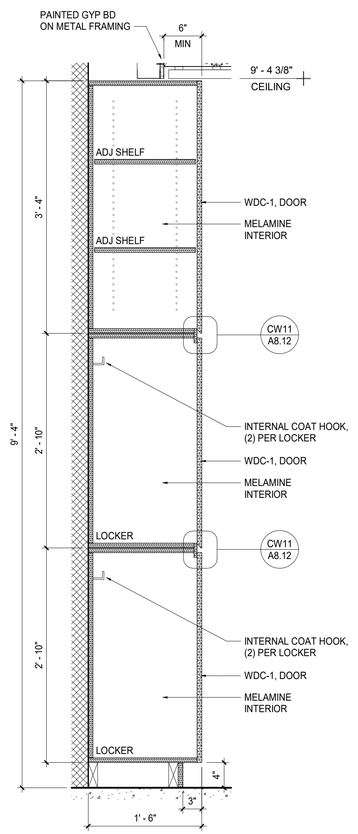
CW14 UPPER DOOR AT REFRIG
6" = 1'-0"



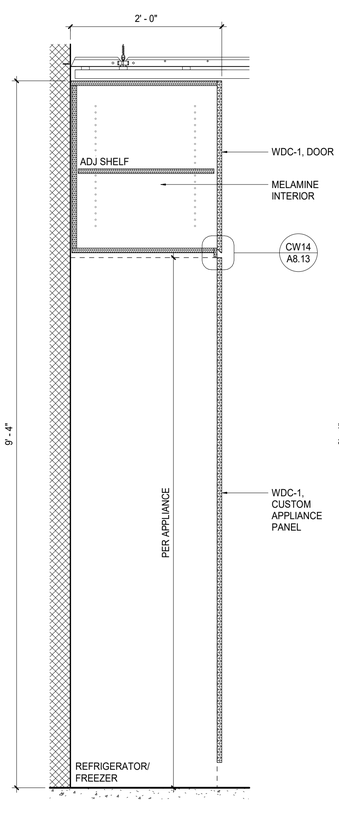
D1 HALL CASEWORK 1
1" = 1'-0"



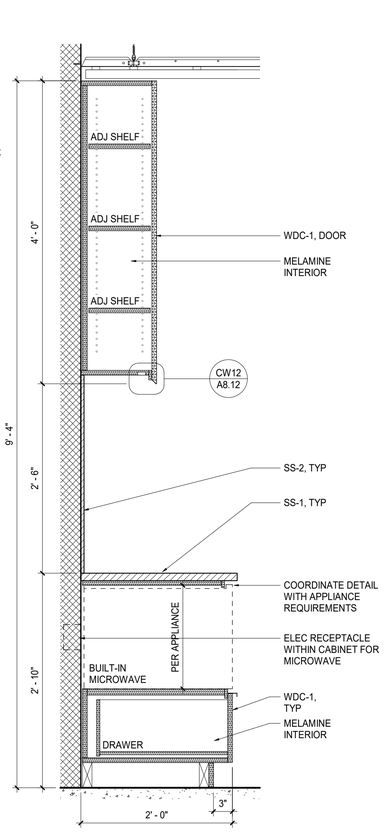
C2 STAFF STORAGE 2
1" = 1'-0"



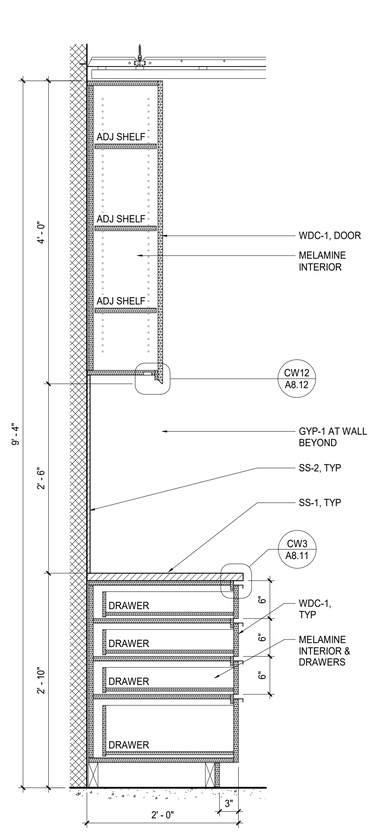
C1 STAFF STORAGE 1
1" = 1'-0"



B3 STAFF KITCHENETTE 3
1" = 1'-0"



B2 STAFF KITCHENETTE 2
1" = 1'-0"



B1 STAFF KITCHENETTE 1
1" = 1'-0"

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CORNELL A. ANDERSON
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5029
STATE OF OREGON

CASEWORK DETAILS

A8.13

GENERAL NOTES

A. COORDINATE INSTALLATION OF DUCTWORK, PIPING, FIXTURES, EQUIPMENT, ETC. WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND FIRE PROTECTION SYSTEMS PRIOR TO INSTALLATION.

B. PROVIDE CEILING ACCESS PANELS FOR ALL DUCT DAMPERS OR CONCEALED VOLUME DAMPER REGULATORS LOCATED ABOVE INACCESSIBLE CEILING SYSTEMS. MAINTAIN FIRE RATINGS WHERE REQUIRED.

C. INSTALL THERMOSTATS AT 4'–0" AFF PER ADA REQUIREMENTS UNLESS OTHERWISE NOTED ON DRAWINGS. 4'–0" DIMENSION TO BE TO THE TOP OF THE THERMOSTAT.

D. COORDINATE EXACT LOCATION OF ALL CEILING GRILLES AND DIFFUSERS WITH ARCHITECTURAL REFLECTED CEILING PLAN. ARCHITECTURAL PLANS TO PROVIDE FINAL GRILLE AND DIFFUSER LOCATIONS IN THE EVENT OF A CONFLICT.

E. 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.

F. MAINTAIN ALL OUTSIDE AIR INTAKE OPENINGS MINIMUM 10'–0" FROM ALL MECHANICAL VENTS, PLUMBING VENTS AND EXHAUST FANS.

G. ALL WORK, INSTALLATIONS, MATERIALS AND EQUIPMENT SHALL COMPLY WITH ALL CITY, COUNTY, STATE AND FEDERAL APPLICABLE LAWS AND REGULATIONS.

H. 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.

I. DIFFUSER/GRILLE RUNOUTS ARE SAME SIZE AS DIFFUSER/GRILLE NECK SIZE UNLESS OTHERWISE NOTED ON PLANS.

J. MAINTAIN REQUIRED CLEARANCES TO COMBUSTIBLE CONSTRUCTION AS SPECIFIED IN THE LISTING AND MANUFACTURER'S INSTRUCTIONS.

K. 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.

L. MAINTAIN MINIMUM DISTANCE OF 3'–0" BETWEEN ALL EXHAUST OUTLETS AND DOORS/OPERABLE WINDOWS.

M. PROVIDE ONE BALANCING DAMPER FOR EACH AIR INLET/OUTLET. WHERE DAMPER IS LOCATED ABOVE HARD LID CEILING, PROVIDE REMOTE CABLE CONTROL FOR DAMPER.

N. FOR ALL DUCT CONNECTIONS TO MECHANICAL EQUIPMENT, PROVIDE TRANSISTION FROM DUCT SIZE SHOWN TO EQUIPMENT CONNECTION SIZE.

O. PROVIDE WALL MOUNTED THERMOSTAT FOR ALL MECHANICAL EQUIPMENT EXCEPT ELECTRIC WALL HEATERS WITH INTEGRAL THERMOSTATS.

P. ADJUST THROW OF ALL AIR DEVICES TO NOT INTERFERE WITH LIGHTING.

Q. CONTRACTOR TO PROVIDE RECORD DOCUMENTS, OPERATING MANUALS, AND MAINTENANCE MANUALS TO THE BUILDING OWNER WITHIN 90 DAYS OF SYSTEM ACCEPTANCE PER CODE 2022 OSSC 107.2.1, AND 2021 OEESC E104.2.

R. INSTALL ALL EQUIPMENT SUCH THAT MANUFACTURER RECOMMENDED CLEARANCES ARE MAINTAINED.

S. SEE SPECIFICATIONS FOR REQUIREMENTS FOR SECTION E104.2 FROM 2021 OEESC THAT ARE NOT PRESENT ON DRAWINGS. SPECIFICATIONS INCLUDE BUT NOT LIMITED TO DUCT SEALING (SECTION 233100), DUCT INSULATION THICKNESS AND LOCATIONS (SECTION 230713), MAXIMUM DAMPER LEAKAGE (SECTION 233300).

T. DETAILS APPLY WHETHER REFERENCED ON THE DRAWINGS OR NOT.

U. INSTALL 1.5X RADIUS ELBOWS WHERE SPACE ALLOWS. OTHERWISE INSTALL MITERED ELBOWS WITH TURNING VANES CONSISTENT WITH SPECIFICATIONS.

V. CONTRACTOR TO PROVIDE TECHNICIAN NOT ASSOCIATED WITH INSTALLATION OF PROJECT TO PROVIDE VERIFICATION AND TESTING REQUIREMENTS OF SECTION 6.9.1 OF 2021 OEESC.

W. COORDINATE WITH STRUCTURAL DRAWINGS FOR ALL SLAB AND WALL PENETRATIONS.

X. SUPPORT EQUIPMENT, DUCTS, PIPING AS SPECIFIED AND SHOWN IN DETAILS. ENSURE EQUIPMENT WILL OPERATE WITHOUT OBJECTIONABLE VIBRATION AND NOISE.

Y. WHERE THE INSIDE OF DUCTS ARE VISIBLE FROM GRILLES OR DIFFUSERS, PAINT VISIBLE PORTION OF INSIDE DUCT FLAT BLACK.

Z. PENETRATIONS THRU RATED ASSEMBLIES TO BE APPROPRIATELY SEALED.

FAN COIL SCHEDULE

MARK NUMBER	FC 1	FC 2	FC 3
SYSTEM	HP–1	HP–2	HP–3
TYPE	HEAT PUMP, DUCTED	HEAT PUMP, DUCTED	HEAT PUMP, DUCTED
FAN SPEED SETTING	HIGH	MID1	HIGH
AIRFLOW (CFM)	1480	1030	740
TOTAL COOLING CAP. (MBH)	42	36	24
TOTAL HEATING CAP. (MBH)	48	40	28
FILTER TYPE	MERV 13	MERV 13	MERV 13
CONDENSATE PUMP	YES	YES	YES
ELECTRICAL (V–PH)	208–1	208–1	208–1
MCA / MOCP	4.25/15	3.5/15	2.25/15
DESIGN WEIGHT (LBS)	86	82	67
NOTES	1	1	1
MANUFACTURER/ MODEL	MITSUBISHI/ PEAD–A42AA9	MITSUBISHI/ PEAD–A36AA9	MITSUBISHI/ PEAD–A24AA9

NOTES:
1. PROVIDE W/ PROGRAMMABLE WALL–MOUNTED T–STAT

DIFFUSER, REGISTER, AND GRILLE SCHEDULE

TYPE	DESCRIPTION	MFR/MODEL	NOTES
A	LINEAR SLOT DIFFUSER LAY IN	TITUS/FT–15	4FT LENGTH
B	LINEAR SLOT RETURN GRILLE LAY IN	TITUS/FT–15	4FT LENGTH
C	SUPPLY WALL GRILLE	AG/A FRAME	SEE PLANS
D	RETURN WALL GRILLE	AG/A FRAME	SEE PLANS
E	RESTROOM EXHAUST GRILLE	TITUS/PAR	SEE PLANS
F	ARCHITECTURAL WOOD SUPPLY GRILLE	SEE ARCH	SEE ARCH

HEAT PUMP SCHEDULE

MARK NUMBER	HP 1	HP 2	HP 3
SYSTEM	FC–1	FC–2	FC–3
TYPE	HEAT PUMP	HEAT PUMP	HEAT PUMP
COOLING CAPACITY TO MATCH (MBH)	42	36	24
HEATING CAPACITY TO MATCH (MBH)	48	40	28
EFFICENCY (SEER2/EER2)	18.6/10.7	20/12.3	20.1/12.2
EFFICENCY (COP)	3.9	4.5	4.2
EFFICENCY (HSPF2)	9.3	9	9.3
ELECTRICAL (V–PH)	208–1	208–1	208–1
MCA/MOCP	29/47	29/47	23/37
WEIGHT (LBS)	218	218	153
NOTES			
MANUFACTURER/ MODEL	MISTUBISHI/ PUZ–A42NKA8	MISTUBISHI/ PUZ–A36NKA8	MISTUBISHI/ PUZ–A24NKA8

NOTES:

EXHAUST FAN SCHEDULE

MARK NUMBER	EF 1
SYSTEM	RESTROOMS
TYPE	INLINE
AIR FLOW (CFM)	200
ESP("H20)	0.26
MOTOR (HP)	1/6
SPEED (RPM)	1140
DISCHARGE	HORIZONTAL
CONTROLLED BY	OCC. SENSOR
BACKDRAFT DAMPER	YES
ELECTRICAL (V–PH)	115–1
DESIGN WEIGHT (LBS)	87
NOTES	1.
MANUFACTURER/ MODEL	COOK/ 120SQN11D

NOTES:
1. UNIT TO OPERATE CONTINUOUSLY WHEN SPACES SERVED ARE OCCUPIED.

MECHANICAL LEGEND

DUCTWORK FITTINGS (DOUBLE/SINGLE LINE) AND CONTROLS

DOUBLE LINE DUCTWORK / SINGLE LINE DUCTWORK

- SUPPLY AIR ELBOW UP
- RETURN/EXHAUST AIR ELBOW UP
- OUTSIDE AIR ELBOW UP
- SUPPLY AIR ELBOW DOWN
- RETURN/EXHAUST AIR ELBOW DOWN
- OUTSIDE AIR ELBOW DOWN
- FLEXIBLE DUCT
- TURNING VANE — SQUARE ELBOW
- R=1.5D — RADIUS ELBOW
- ACOUSTICALLY LINED DUCT (SIZES SHOWN ARE NET INSIDE)
- SUPPLY AIR DIFFUSER WITH THROW DIRECTION
- SUPPLY AIR SIDEWALL REGISTER
- RETURN/EXHAUST AIR CEILING REGISTER
- RETURN/EXHAUST AIR SIDEWALL REGISTER
- MVD MANUAL VOLUME DAMPER
- M — MD MOTORIZED DAMPER
- FSD FIRE SMOKE DAMPER
- T/S VAV–1 — THERMOSTAT/SENSOR MOUNTED @ 48" AFF WITH UNIT SERVED NOTED

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BDD	BACKDRAFT DAMPER
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
(E)	EXISTING
ESP	EXTERNAL STATIC PRESSURE
EXH	EXHAUST AIR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
MA	MAKE–UP AIR
MBH	1000 BTU PER HOUR
MFR	MANUFACTURER
(N)	NEW
OSA	OUTSIDE AIR
PSI	POUNDS PER SQUARE INCH
RA	RETURN AIR
SA	SUPPLY AIR

REFERENCE

- CONNECT TO EXISTING AT THIS POINT. VERIFY LOCATION, SIZE, AND CONDITION.
- 1 — SHEET NOTE
- VAV 1 — EQUIPMENT MARK NUMBER SEE SCHEDULES
- 1 — REVISION
- 20x10 A / 500 OBD — DIFFUSER/REGISTER MARK NUMBER
- NECK SIZE — 20x10 A 500 OBD — SCHEDULED TYPE
- CFM — OPPOSED BLADE DAMPER

NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS CONTAINED IN THIS LEGEND WILL APPEAR ON DRAWINGS.

OUTSIDE AIR VENTILATION AND EXHAUST SCHEDULE

2022 OSMC Table 403.3.3.1.1

System	Application	Cond. Area (SF)	Default Occ. Density # per 1000 SF	Occ. Load	Actual No.of Occ.or No. of Fixtures	CFM per Occ. or Fixture	People or Fixture Outdoor Airflow (CFM)	Area Outdoor Airflow (CFM/SF)	Area Outdoor Airflow (CFM)	No.of Fixtures for Exhaust	CFM per Occ. or Fixture	Exhaust Airflow (CFM)	Req'd OSA and Exhaust (CFM)
FC–1	LOUNGE 104	404	30	12	6	5	30	0.06	24	0	0	0	54
	OFFICE 110	98	5	0	2	5	10	0.06	6	0	0	0	16
	OFFICE 110	98	5	0	2	5	10	0.06	6	0	0	0	16
	HALL 113	135	0	0	0	0	0	0.06	8	0	0	0	8
	STAFF 114	130	5	1	2	5	10	0.06	8			0	18
												TOTAL REQ'D OSA CFM	112
												TOTAL REQ'D OSA CFM IN BREATHING ZONE	140
												TOTAL EXHUAST CFM	0
												TOTAL PROVIDED OSA CFM	140
FC–2	ENTRY & CHECK IN	982	10	10	5	5	25	0.06	59	0	0	0	84
												TOTAL REQ'D OSA CFM	84
												TOTAL REQ'D OSA CFM IN BREATHING ZONE	105
												TOTAL EXHUAST CFM	0
												TOTAL PROVIDED OSA CFM	105
FC–3	LOUNGE 104	460	30	14	6	5	30	0.06	28	0	0	0	58
												TOTAL REQ'D OSA CFM	58
												TOTAL REQ'D OSA CFM IN BREATHING ZONE	72
												TOTAL EXHUAST CFM	0
												TOTAL PROVIDED OSA CFM	75
EF–1	WC	48	0	0	0	0	0	0	0	1	50.00	50	0
	WC	48	0	0	0	0	0	0	0	1	50.00	50	0
	ADA WC	62	0	0	0	0	0	0	0	1	50.00	50	0
	ADA WC	62	0	0	0	0	0	0	0	1	50.00	50	0
												TOTAL REQ'D OSA CFM	0
												TOTAL REQ'D OSA CFM IN BREATHING ZONE	0
												TOTAL EXHUAST CFM	50
												TOTAL PROVIDED OSA CFM	0

ELECTRIC WALL HEATER SCHEDULE

MARK NUMBER	EWH 1	EWH 2	EWH 3
SYSTEM	STORAGE	EXT STORAGE	EXT STORAGE
TYPE	2" RECESSED	2" RECESSED	RECESSED
CAPACITY (KW)	1.5	3.6	3.6
AMPS	7.2	17.3	17.3
ELECTRICAL (V–PH)	208–1	208–1	208–1
NOTES	1	1	1
MANUFACTURER/ MODEL	QMARK/ LFK204F	QMARK/ LFK484F	QMARK/ LFK484F

NOTES:
1. PROVIDE WITH SURFACE MOUNTED FRAME AND INTEGRAL THERMOSTAT.

SHEET INDEX

M0.01– LEGENDS, ABBREVIATIONS, AND SCHEDULES – MECHANICAL
M2.01– FLOOR PLAN – MECHANICAL
M4.01– DETAILS – MECHANICAL

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Project No.: 1810.001.001
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REGISTERED PROFESSIONAL ENGINEER 19698 OREGON MAY 5, 1998 EDWARD A. CARLISLE
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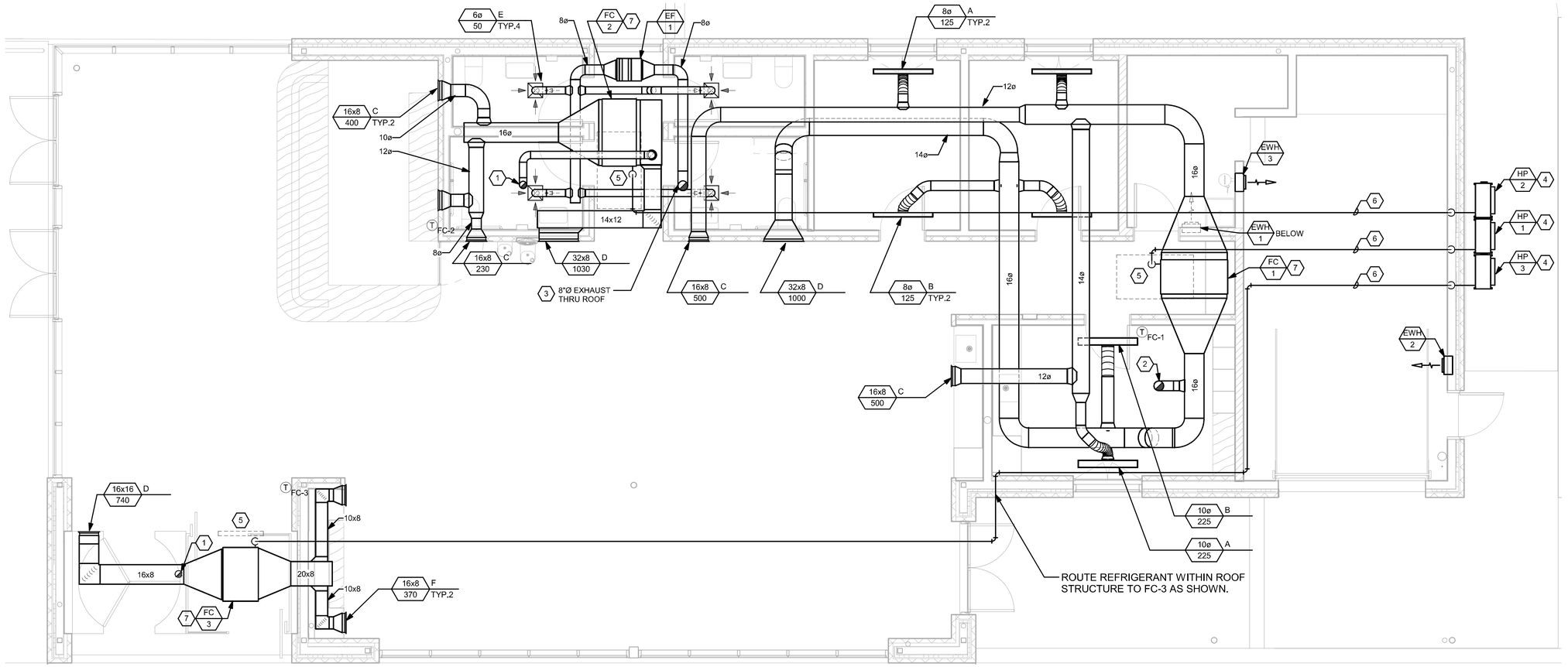
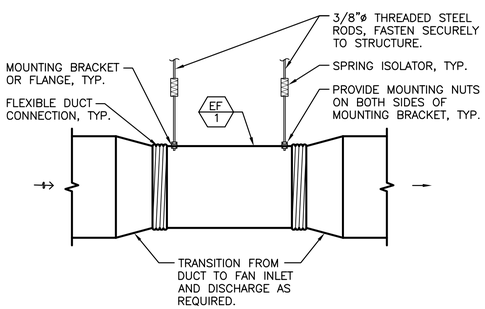
LEGENDS, ABBREVIATIONS, AND SCHEDULES - MECHANICAL

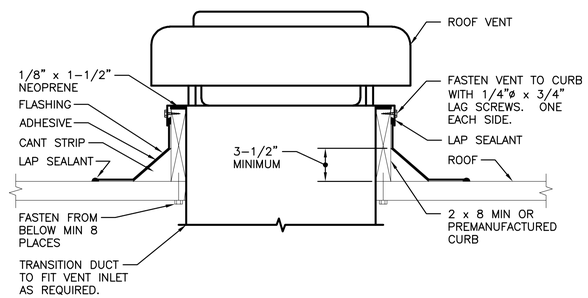
M0.01



1 M2.1 FLOOR PLAN - MECHANICAL
SCALE: 1/4"=1'-0"

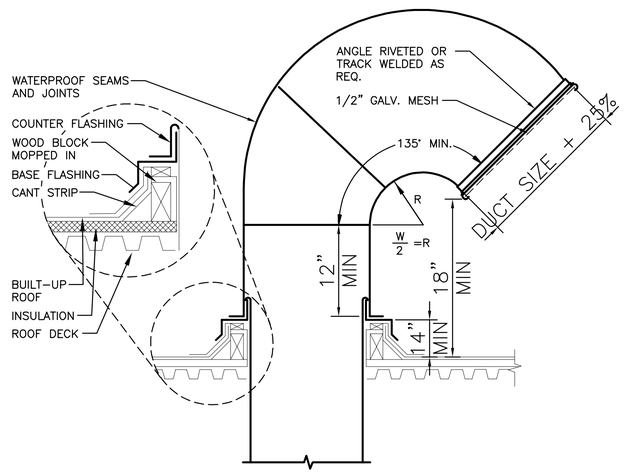


2 M2.1 INLINE EXHAUST FAN DETAIL
NOT TO SCALE



NOTES:
1. IN AREAS WHERE ROOF IS BALLASTED, REMOVE EXISTING BALLAST FROM AROUND OPENING. SURFACE MUST BE CLEAN AND SMOOTH, FREE FROM WATER, OIL AND LOOSE MATERIAL. AFTER INSTALLATION REPLACE BALLAST AROUND FINISHED CURB.
2. CANT CURB AS REQUIRED FOR LEVEL INSTALLATION.

3 M2.1 ROOF VENT DETAIL
NOT TO SCALE



4 M2.1 ROOF VENT DETAIL
NOT TO SCALE

KEYED NOTES

1. 6"ø OUTSIDE AIR DUCT ROUTED THRU ROOF. TERMINATE OPENING WITH GOOSENECK AND BIRDSCREEN
2. 8"ø OUTSIDE AIR DUCT ROUTED THRU ROOF. TERMINATE OPENING WITH GOOSENECK AND BIRDSCREEN
3. 8"ø EXHAUST DUCT ROUTED THRU ROOF. TERMINATE OPENING WITH MANUFACTURER APPROVED ROOF CAP.
4. ARCHITECT AND LANDSCAPE ARCHITECT TO VERIFY FINAL LOCATIONS OF OUTDOOR HEAT PUMPS.
5. REQUIRED ACCESS FOR FAN COIL. REFER TO ARCHITECTURAL PLANS FOR PANEL SIZE AND CONSTRUCTION.
6. SIZE REFRIGERANT PIPING TO MANUFACTURER'S RECOMMENDATIONS.
7. CONDENSATE TO DRAIN TO NEAREST CODE APPROVED LOCATION.

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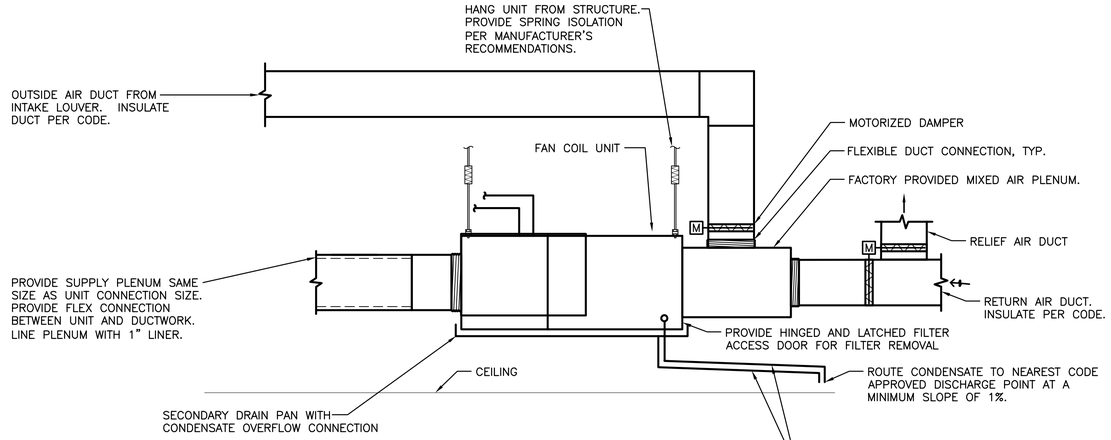
FLOOR PLAN - MECHANICAL

M2.01

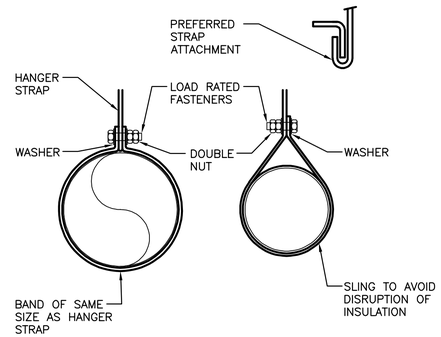


NOTE 1: PROVIDE ACCESS DOOR FOR INSTALLATION AND SERVICE.

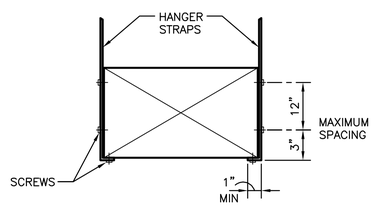
NOTE 2: PROVIDE SOUND ATTENUATING INTERIOR LINING WITHIN 10' OF UNIT IN ALL DUCTWORK.

NOTE 3: UNIT SHOWN ABOVE IS FC-1A AND 1B WITH ECONOMIZER. OTHER FAN COILS ARE SIMILAR EXCEPT DO NOT REQUIRE MOTORIZED DAMPERS OR FACTORY PROVIDED MIXED AIR PLENUM.

1 / M4.01 FAN COIL UNIT DETAIL
NOT TO SCALE



2 / M4.01 ROUND DUCT LOWER HANGER ATTACHMENT
NOT TO SCALE



3 / M4.01 SQUARE DUCT LOWER HANGER ATTACHMENT
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DETAILS - MECHANICAL

M4.01

PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE	W	V	CW	HW	TW	MANUFACTURER	REMARKS
WC-1	WATER CLOSET HANDICAP	4	2	1			KOHLER, KINGSTON ULTRA K-84325 SLOAN, ECOS 8111 FLUSH VALVE	WALL MOUNTED, 1.28 GPF VALVE BATTERY POWER, ELONGATED, ADA HEIGHT, KOHLER K-4731 OPEN FRONT SEAT, PROVIDE CARRIER.
LV-1	LAVATORY PUBLIC	1-1/2	1-1/4	1/2	1/2		DURAVIT, HAPPY D.2 WALL MOUNTED SINK #2316600000 KOHLER K-103MT76-SANA FAUCET	WALL HUNG, P-TRAP, SUPPLIES & STOPS, PROVIDE THERMOSTATIC MIXING VALVE.
S-1	PUBLIC KITCHENETTE SINK	3	2	1/2	1/2		ELKAY, ELUHAD161655PD, CALIFORNIA FAUCETS, BEL CANTO E309-ST FAUCET (BRUSHED NICKEL)	STAINLESS STEEL BOWL UNDERMOUNT ADA SINK, P-TRAP, SUPPPLIES & STOPS, PROVIDE THERMOSTATIC MIXING VALVE.
S-2	STAFF KITCHENETTE SINK	3	2	1/2	1/2		ELKAY, ELUHAD191655PD, CALIFORNIA FAUCETS, POETTO 96230-K50-ST FAUCET (BRUSHED NICKEL)	STAINLESS STEEL BOWL UNDERMOUNT ADA SINK, P-TRAP, SUPPPLIES & STOPS, PROVIDE BADGER 5 GARBAGE DISPOSAL & INSTA HOT FILTERED TAP. PROVIDE THERMOSTATIC MIXING VALVE.
SS-1	SERVICE SINK	3	2	1/2	1/2		FIAT MSB 2424 WITH TRAP STANDARD	FIAT MODEL 830-AA FAUCET WITH VACUUM BREAKER AND INTEGRAL STOPS. PROVIDE THERMOSTATIC MIXING VALVE.
FD-1	FLOOR DRAIN	3	2				SMITH 2005-A	PROVIDE TRAP PRIMER VALVE AND ATTACH TO SINK.
FD-2	FLOOR DRAIN	3	2				SMITH 2005-A-F37	PROVIDE TRAP PRIMER VALVE AND ATTACH TO SINK.
WH-1	WATER HEATER			3/4	3/4		A.O. SMITH ACT-199I-N 100	CONDENSING NATURAL GAS TANKLESS 199MBH
ET-1	EXPANSION TANK			1/2			AMTROL MODEL ST-8	MOUNT TANK TO STRUCTURE
RCP-1	RECIRCULATION PUMP				1/2		TACO MODEL 008	CONNECTIION SIZE 3/4, 1/25 HP 3250 RPM AT 15 GPM
HB-1	HOSE BIBB			3/4			JR SMITH, 5509QT	1/4 TURN NON-FREEZE
DF-1	DRINKING FOUNTAIN	1-1/2	1-1/4	1/2			ELKAY, LZWS-EDFP217K	PROVIDE MOUNTING FRAME
EW-1	EYE WASH	1-1/2	1-1/4	1/2	1/2	1/2	HAWS 7260BT	
RD-1	ROOF DRAIN	3					JAY R. SMITH OR ZURN	8-1/2"DIAMETER ROOF DRAIN W/ LOW PROFILE STRAINER. OVERFLOW WITH SCUPPER SEE ARCH.

WATER SERVICE CALCULATIONS

COLD WATER ONLY SERVICE APPLIANCES, APPURTENANCES OR FIXTURES	QTY	FIXTURE UNITS	CW UNITS	
DRINKING FOUNTAIN OR WATERCOOLER		0.5	0.0	
HOSE BIBB	1	2.5	2.5	
HOSE BIBB, EACH ADDITIONAL	3	1.0	3.0	
LAWN SPRINKLER, EACH HEAD		1.0	0.0	
WATER CLOSET, 1.6 GPF GRAVITY TANK		2.5	0.0	
WATER CLOSET, 1.6 GPF FLUSHOMETER TANK		2.5	0.0	
WATER CLOSET, > 1.6 GPF GRAVITY TANK		3.0	0.0	
COLD AND HOT WATER SERVICE APPLIANCES, APPURTENANCES OR FIXTURES	**QTY**	**FIXTURE UNITS**	**CW UNITS**	**HW UNITS**
CLOTHES WASHER		4.0	0.0	0.0
DISHWASHER, DOMESTIC		1.5	0.0	0.0
LAVATORY	4	1.0	4.0	3.0
SINK, BAR		1.0	0.0	0.0
SINK, KITCHEN DOMESTIC	2	1.5	3.0	2.3
SINK, LAUNDRY		1.5	0.0	0.0
SINK, SERVICE OR MOP BASIN	1	1.5	1.5	1.1
SINK, WASHUP		2.0	0.0	0.0
SHOWER, PER HEAD		2.0	0.0	0.0
FLUSH VALVE SERVICE APPLIANCES, APPURTENANCES OR FIXTURES	**QTY**		**CW UNITS**	
URINAL, FLUSHOMETER VALVE			0.0	
WATER CLOSET, FLUSHOMETER VALVE	4		105.0	
TOTAL FLUSH TANK FIXTURE UNITS			14.0	6.4
TOTAL FLUSH VALVE FIXTURE UNITS			105.0	
FLUSH TANK FLOW, gpm			10.5	
FLUSH VALVE FLOW, gpm			69.0	
TOAL FLOW, gpm			79.5	5.4

FLOW AND PRESSURE CALCULATIONS

TOAL FIXTURE FLOW		79.5 gpm
IRRIGATION FLOW		0 gpm
TOTAL FLOW REQUIRED		79.5 gpm
STREET PRESSURE		71 psig
MAXIMUM SERVICE PRESSURE AFTER PRV		70 psig
TOTAL PIPE LENGTH		150 ft
TOTAL EQUIVALENT PIPE LENGTH		188 ft
SERVICE NOMINAL PIPE SIZE		2 in
a) CALCULATED FRICTION LOSS (1)		9.25 psi
b) WATER METER PRESSURE LOSS		6 psi
c) BACKFLOW PREVENTER LOSS		7 psi
COMBINED PRESSURE LOSSES (a + b + c)		22.3 psi
STATIC (GRAVITY) HEAD REQUIRED	15.0 ft	6.53 psi
REQUIRED PRESSURE (1)		30 psig
AVAILABLE PRESSURE (2)		41 psig

(1) TO MOST HYDRAULICALLY REMOTE FIXTURE.
(2) AT MOST HYDRAULICALLY REMOTE FIXTURE.

PLUMBING LEGEND

——— – ———	CW	COLD WATER
——— – – ———	HW	HOT WATER
——— – – – ———	HWR	HOT WATER RECIRC
– – – – – – – –	V	VENT
———————	W	SANITARY WASTE (ABOVE GRADE)
— — — — — —	W	SANITARY WASTE (BELOW GRADE)
———RD———	RD	RAIN DRAIN (ABOVE GRADE)
— —RD— —	RD	RAIN DRAIN (BELOW GRADE)
———G———	G	NATURAL GAS

B.G.		BELOW GRADE
DS		DOWN SPOUT
(E)		EXISTING
(N)		NEW
(R)		REMOVE
VTR		VENT THRU ROOF
o	CO	FLOOR CLEANOUT
o	COTG	CLEANOUT TO GRADE
—	WCO	WALL CLEANOUT
		BALL VALVE
		CHECK VALVE
		HOSE BIBB
WH-1		PLUMBING FIXTURE MARK NO. SEE PLUMBING FIXTURE CONNECTION SCHEDULE.
1		SHEET NOTE
		CONNECT TO EXISTING AT THIS POINT. VERIFY EXACT LOCATION, SIZE AND CONDITION.

GENERAL REQUIREMENTS

1. CONFORM TO CURRENT CODE INCLUDING OPSC, BUILDING CODE, AND LOCAL REQUIREMENTS.
2. PROVIDE COMPLETE AND FUNCTIONAL PLUMBING SYSTEMS AS SPECIFIED, AS SHOWN ON DRAWINGS, AS REQUIRED, AND AS INTENDED.
3. EQUIPMENT SHALL BE NEW AND OF LIKE MATERIALS THROUGH AUTHORIZED DISTRIBUTORS. PROVIDE EQUIPMENT OF SAME SYSTEM AND TYPE BY SAME MANUFACTURER. EQUIPMENT SHALL BE LISTED FOR ITS USE AND SHALL MEET OREGON LISTING REQUIREMENTS.
4. WARRANT WORK, MATERIALS, AND EQUIPMENT FOR NOT LESS THAN ONE-YEAR. THIS REQUIREMENT SHALL NOT LIMIT, RESTRICT, OR OTHERWISE LESSEN ANY WARRANTY PROVIDED BY EQUIPMENT MANUFACTURER'S STANDARD WARRANTY IF GREATER THAN ONE-YEAR.
5. PROVIDE SUBMITTALS FOR PLUMBING EQUIPMENT. PROVIDE STANDARD CUT-SHEETS CLEARLY INDICATING MODELS TO BE INSTALLED.
6. CALL U-DIG 811 AT LEAST 2-BUSINESS DAYS BEFORE DIG OR TRENCH PER OAR 952-001-0010 THROUGH -0090. SCAN & MARK SUGGESTED ROUTING FOR UTILITIES & IRRIGATION PRIOR TO TRENCHING ACTIVITIES; DO NOT DISTURB UTILITIES OR PIPING, AVOID CONFLICTS. WHERE FEASIBLE, MARK THE ANTICIPATED ROUTE(S) WITH WHITE PAINT; THIS HELPS LOCATING PERSONNEL FIND THE RIGHT AREA AND LOCATE NEARBY FACILITIES AS ACCURATELY AS POSSIBLE.

SHEET INDEX

P0.01 – PLUMBING SCHEDULES, LEGEND & ABBREVIATIONS
P2.01 – FLOOR PLAN – PLUMBING
P4.01 – PLUMBING DETAILS

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Project No.: 1810.001.001
Contact: DWAYNE JOHNSON

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DATE: 02/10/2026
DRAWN BY: R&W

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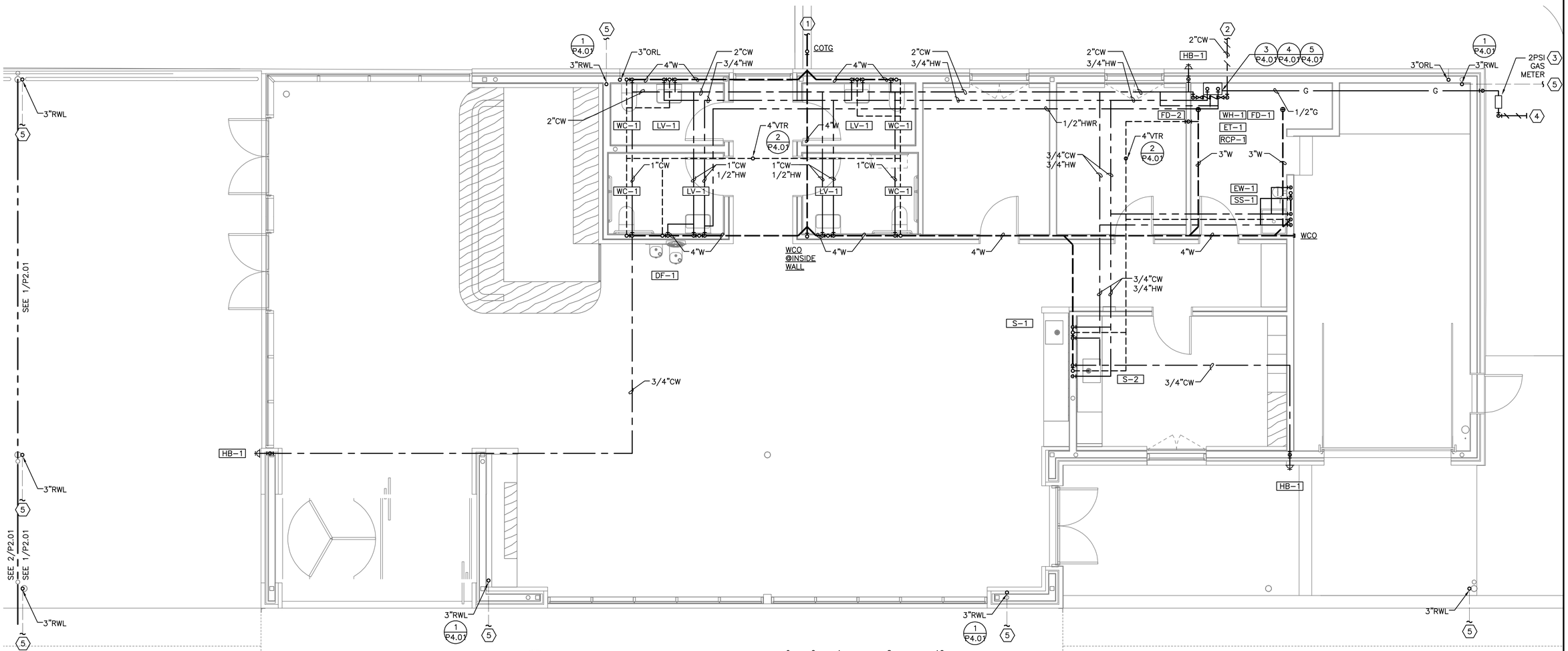
REVISIONS:

STAMP:

REGISTERED PROFESSIONAL ENGINEER
19698
OREGON
MAY 5, 1998
EDWARD A. CARLISLE
EXPIRES 12/31/27
2026.02.10 16:06:13-08'00'

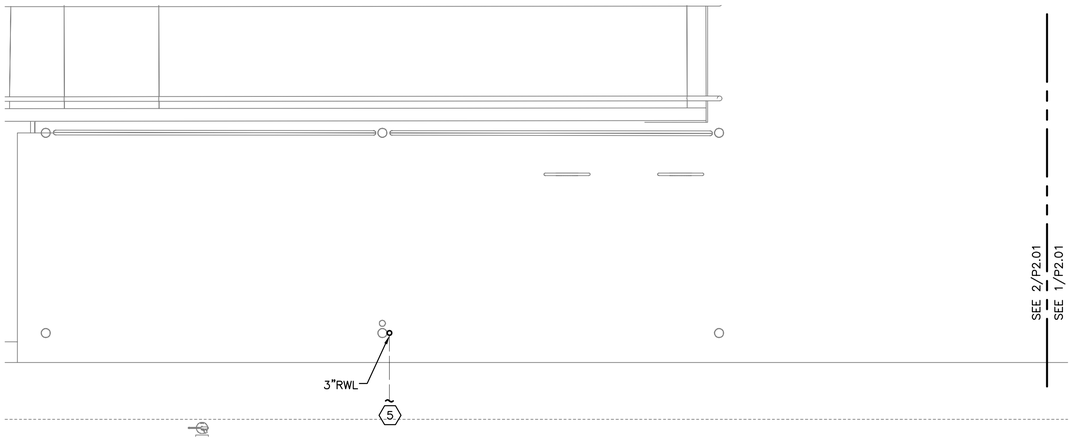
PLUMBING SCHEDULES LEGEND & ABBREVIATIONS

P0.01



1 P2.1 FLOOR PLAN - PLUMBING
SCALE: 1/4"=1'-0"

0 2 4 8 12
SCALE IN FEET
1/4" = 1'-0"



2 P2.1 FLOOR PLAN continue - PLUMBING
SCALE: 1/4"=1'-0"

0 2 4 8 12
SCALE IN FEET
1/4" = 1'-0"

GENERAL NOTES

A. SEE SHEET P0.1 FOR LEGEND & ABBREVIATIONS.

B. DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, TEE, OR ELBOW WHICH MAY BE REQUIRED TO INSTALL WORK IN THE SPACE PROVIDED. DO NOT SCALE DRAWINGS FOR ROUGHING-IN MEASUREMENTS, NOR USE AS SHOP DRAWINGS. MAKE FIELD MEASUREMENTS AND PREPARE SHOP DRAWINGS AS REQUIRED. COORDINATE WORK WITH SHOP DRAWINGS OF OTHER TRADES. PROVIDE ANY BENDS. OFFSETS AND ELBOWS WHERE REQUIRED BY LOCAL CONDITIONS FROM MEASUREMENTS TAKEN AT THE BUILDING (SUBJECT TO APPROVAL) AND WITHOUT ADDITIONAL COST TO THE PROJECT. THE RIGHT IS RESERVED TO MAKE ANY REASONABLE CHANGES IN OUTLET LOCATION PRIOR TO ROUGH-IN.

KEYED NOTES

1. 4"SANITARY SEWER TO SITE UTILITIES, SEE CIVIL FOR CONTINUATION.
2. 2"DOMESTIC COLD WATER TO SITE UTILITIES, SEE CIVIL FOR CONTINUATION.
3. 2 PSI GAS METER PROVIDED BY SERVING UTILITY.
4. NATURAL GAS SUPPLY BY SERVING UTILITY, SEE CIVIL FOR CONTINUATION.
5. 4"RAIN WATER LEADER TO SITE UTILITIES, SEE CIVIL FOR CONTINUATION. SEE ARCHITECTURAL ROOF PLAN (A1.10) FOR ROOF DRAIN LOCATIONS & ROUTE 3"PIPING TO 3"RWL LOCATIONS SHOWN.

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MAY 5, 1995
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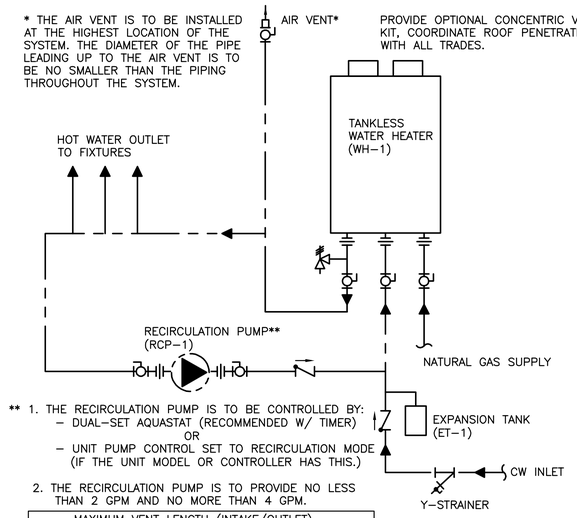
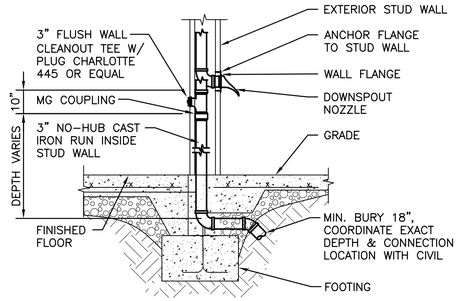
FLOOR PLAN - PLUMBING

P2.01

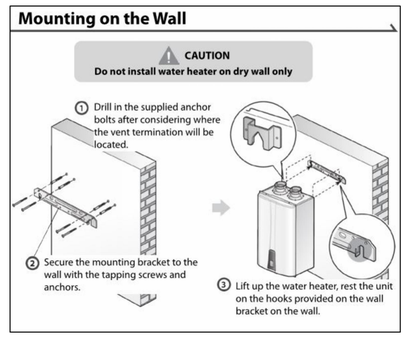


MAXIMUM VENT LENGTH (INTAKE/OUTLET)		
# OF 90° ELBOWS	MAX LENGTH OF 2" STRAIGHT PIPE	MAX LENGTH OF 3" STRAIGHT PIPE
0	60 FT.	150.0 FT.
1	57 FT.	148.5 FT.
2	54 FT.	147.0 FT.
3	51 FT.	145.5 FT.
4	48 FT.	144.0 FT.
5	45 FT.	142.5 FT.
6	42 FT.	141.0 FT.

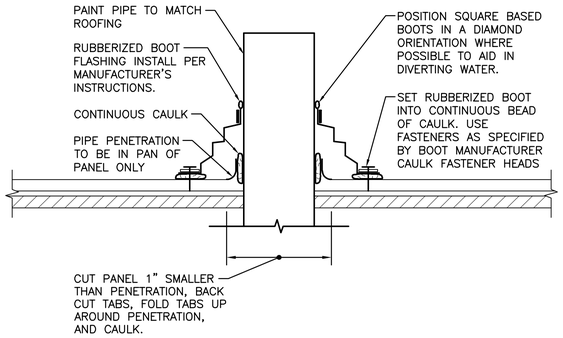
4 / P4.01 NEW TANKLESS WATER HEATER DETAIL
NOT TO SCALE



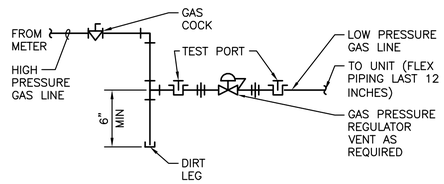
1 / P4.01 DOWNSPOUT DETAIL
NOT TO SCALE
MPL-DOWN-SPOT-02



5 / P4.01 NEW TANKLESS WATER HEATER MOUNTING DETAIL
NOT TO SCALE



2 / P4.01 PLUMBING VENT DETAIL
NOT TO SCALE
MPL-VENT-01



NOTE:
PRESSURE REGULATOR AND TEST PORTS NOT REQUIRED ON ALL SYSTEMS; CONTRACTOR TO VERIFY DELIVERY AND APPLIANCE PRESSURES

3 / P4.01 GAS CONNECTION DETAIL
NOT TO SCALE
MPP-GAS-CONN-01

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PLUMBING DETAILS

P4.01

ELECTRICAL SYMBOL LIST

- CIRCUIT BREAKER
- CONDUCTOR/CONDUIT SCHEDULE TAG
- CONDUIT – BELOW GRADE
- CONDUIT – CONCEALED
- CONDUIT – FLEXIBLE
- CONDUIT – STUB–OUT
- CONDUIT – STUB–UP
- CONTACTOR OPERATING COIL
- EQUIPMENT CONNECTION
- EXIT SIGN – CEILING–MOUNTED
- EXIT SIGN – WALL–MOUNTED, RECESSED
- EXIT SIGN – DOUBLE FACED WITH DIRECTIONAL ARROWS
- BOLLARD TYPE SITE LIGHTING
- LIGHT FIXTURE – RECESSED
- LIGHT FIXTURE – SURFACE–MOUNTED
- LIGHT FIXTURE – WALL–MOUNTED
- LIGHT FIXTURE – SUSPENDED, IN DOME
- LIGHT FIXTURE – SPORT LIGHT
- LIGHT FIXTURE – POLE MOUNTED
- LIGHT FIXTURE – LINEAR LED
- LIGHT FIXTURE – ON EMERGENCY CIRCUIT
- OUTLET – COMBINATION TELEPHONE/DATA, MOUNT ABOVE COUNTER, PROVIDE 3/4" CONDUIT TO CEILING OR TRUSS SPACE
- OUTLET – DATA, MOUNT ABOVE COUNTER, PROVIDE 3/4" CONDUIT TO CEILING OR TRUSS SPACE.
- CCTV CAMERA
- SECURITY CARD READER

- RECEPTACLE – DUPLEX, MOUNT 18" AFF, UON
- RECEPTACLE – DOUBLE DUPLEX, MOUNT 18" AFF, UON
- RECEPTACLE – DUPLEX, FLUSH TO FLOOR
- RECEPTACLE – DOUBLE DUPLEX, FLUSH TO FLOOR
- RECEPTACLE – MOUNTED ABOVE COUNTER
- RECEPTACLE – ISOLATED GROUND
- RECEPTACLE – SPECIAL PURPOSE
- SWITCH DESIGNATOR
- SWITCH – SINGLE–POLE, MOUNT 48" AFF, UON
- SWITCH – THREE–WAY, MOUNT 48" AFF UON.
- SWITCH – FOUR–WAY
- SWITCH – DIMMER, MOUNT 48" AFF, UON
- SWITCH – FUSED DISCONNECT
- SWITCH – NON–FUSED DISCONNECT
- MOTOR CONNECTION
- JUNCTION BOX – CEILING–MOUNTED
- JUNCTION BOX – WALL–MOUNTED
- JUNCTION SPLICE/PULL VAULT, IN–GRADE
- METER BASE – UTILITY COMPANY APPROVED
- METERED SERVICE CABINET
- DAYLIGHT SENSOR
- OCCUPANCY SENSOR
- PHOTO ELECTRIC SENSOR
- TRANSFORMER
- PANEL
- SHEET NOTE
- SHEET DETAIL
- EQUIPMENT IDENTIFICATION. SEE EQUIPMENT CONNECTION SCHEDULE FOR FEEDER INFORMATION

NOTE: NOT ALL ABBREVIATIONS OR SYMBOLS USED.

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
AIC	AMPERE INTERRUPTING CAPACITY
AFF	ABOVE FINISHED FLOOR
AF	AMPERE RATED FUSE
A.G.	ABOVE GRADE
AS	AMPERE RATED SWITCH
BLDG	BUILDING
CAB	DRIVER CABINET
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CU	COPPER
DC	DIRECT CURRENT
DS	DAYLIGHT SENSOR
E	EMERGENCY
EH	ELECTRIC HEATER
(E)	EXISTING
EXT	EXTERIOR
F, FU	FUSE
G, GND	GROUND
GFI	GROUND FAULT INTERRUPTER
GRS	GALVANIZED RIGID STEEL CONDUIT
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
IC	INTERRUPTING CAPACITY, ISOLATION CONTACTOR
INT	INTERIOR
J, JB	JUNCTION BOX
KAIC	THOUSAND AMPERE INTERRUPTING CAPACITY
KVA	KILO VOLT–AMP
KW	KILOWATT
LC	LIGHTING CONTACTOR
LCP	LIGHTING CONTROL PANEL
MD	MAIN DISCONNECT
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTS	MANUAL TRANSFER SWITCH
N, NEUT	NEUTRAL
NEC	NATIONAL ELECTRIC CODE
NO	NUMBER
OS	OCCUPANCY SENSOR
PC, PES	PHOTOCELL, PHOTO ELECTRIC SENSOR
PH, ø	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PVC–RGS	PVC COATED RGS
RCPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
SIM	SIMILAR
SPD	SURGE PROTECTOR DEVICE
SS	STAINLESS STEEL
TB	TERMINAL BLOCK
TJB	TERMINAL JUNCTION BOX
TSP	TWISTED SHIELDED PAIR
TST	TWISTED SHIELDED TRIAD
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VA	VOLT–AMP
VFD	VARIABLE FREQUENCY DRIVE
W	WATT, WIRE
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER

NOTE: NOT ALL ABBREVIATIONS USED.

GENERAL REQUIREMENTS

1. CONFORM TO CURRENT CODE INCLUDING OSSC, NEC, BUILDING CODE, AND LOCAL REQUIREMENTS.
2. PROVIDE COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS AS SPECIFIED, AS SHOWN ON DRAWINGS, AS REQUIRED, AND AS INTENDED.
3. EQUIPMENT SHALL BE NEW AND OF LIKE MATERIALS THROUGH AUTHORIZED DISTRIBUTORS. PROVIDE EQUIPMENT OF SAME SYSTEM AND TYPE BY SAME MANUFACTURER. EQUIPMENT SHALL BE LISTED FOR ITS USE AND SHALL MEET OREGON LISTING REQUIREMENTS. REFER TO OAR 918–306–00 FOR MORE INFORMATION ON OREGON LISTING REQUIREMENTS.
4. WARRANT WORK, MATERIALS, AND EQUIPMENT FOR NOT LESS THAN ONE–YEAR. THIS REQUIREMENT SHALL NOT LIMIT, RESTRICT, OR OTHERWISE LESSEN ANY WARRANTY PROVIDED BY EQUIPMENT MANUFACTURER'S STANDARD WARRANTY IF GREATER THAN ONE–YEAR.
5. PROVIDE SUBMITTALS FOR ELECTRICAL EQUIPMENT. PROVIDE STANDARD CUT–SHEETS CLEARLY INDICATING MODELS TO BE INSTALLED.
6. GROUND SYSTEMS PER NEC ARTICLE 250, AS INDICATED, AND AS SHOWN.
7. ALL ELECTRICAL WORK TO COMPLY WITH NFPA 70E ARC FLASH RULES, WHICH WILL INCLUDE AN ARC FLASH ANALYSIS AND ARC FLASH LABEL FOR THE CONTROLLER CABINET.
8. UNLESS THE COUNTY DETERMINES IN ITS SOLE DISCRETION THAT A CONTRACTOR'S ATTENDANCE IS NOT NECESSARY, CONTRACTORS WILL BE REQUIRED TO ATTEND A PRE–TASK MEETING WITH THE PROJECT MANAGER AND ELECTRICAL SUPERVISOR OR DESIGNEE TO DISCUSS THE HAZARDS AND SAFE WORK PROCEDURES FOR ALL ELECTRICAL WORK TO BE PERFORMED ON THE PROJECT.
9. ELECTRICAL WORK SHALL BE PERFORMED UNDER ELECTRICALLY SAFE WORK CONDITIONS WITH LOCK–OUT TAG–OUT PER NFPA 70E. KEEP POWER DISRUPTIONS TO A MINIMUM AND NOTIFY OWNER IN ADVANCE OF POWER DISRUPTIONS.
10. CALL U–DIG 811 AT LEAST 2–BUSINESS DAYS BEFORE DIG OR TRENCH PER OAR 952–001–0010 THROUGH –0090. SCAN & MARK SUGGESTED ROUTING FOR UTILITIES & IRRIGATION PRIOR TO TRENCHING ACTIVITIES; DO NOT DISTURB UTILITIES OR PIPING, AVOID CONFLICTS. WHERE FEASIBLE, MARK THE ANTICIPATED ROUTE(S) WITH WHITE PAINT; THIS HELPS LOCATING PERSONNEL FIND THE RIGHT AREA AND LOCATE NEARBY FACILITIES AS ACCURATELY AS POSSIBLE.

UTILITY CONTACT

PORTLAND GENERAL ELECTRIC
WORK ORDER: M4500761
REP. NAME: BEN BROSS
PHONE: 503–672–5497
EMAIL: BENJAMINBROSS@PGN.COM

ELECTRICAL SHEET INDEX

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E0.02 – ELECTRICAL SCHEDULES
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88445PE
OREGON
NOV. 12, 2013
JONATHAN PATRICK LILLY
RENEWAL DATE: 12/31/2026
2026.02.10 18:06:59-08'00'

ELECTRICAL LEGENDS & ABBREVIATIONS

E0.01

PANEL: 4A | BUS: 400 A | DATE: 02/06/26 | VOLTAGE: 277 / 480 VOLTS, 3 PHASE, 4 WIRE

FEEDER: SEE ONE-LINE DIAGRAM | MAIN BRKR: 400 A | MOUNTING: SURFACE

CKT NO.	CIRCUIT DESCRIPTION	CKT BKR AMPS/POLE	LOAD TYPE	LOAD VA	PHASE	LOAD VA	LOAD TYPE	CKT BKR AMPS/POLE	CIRCUIT DESCRIPTION	CKT NO.
1	PANEL 2A (VIA XFMR)	125/3		17579	A	4800	L	30/1	NORTH COURT LIGHT POLES – 2 POLES	2
3	---	---		15224	B	7200	L	20/1	SOUTH COURT LIGHT POLES – 3 POLES	4
5	---	---		15850	C	4000	L	30/1	WEST COURT LIGHT POLES – 2 POLES	6
7	PANEL 4B (VIA ATS)	200/3		8294	A	4000	L	30/1	WEST COURT LIGHT POLES – 2 POLES	8
9	---	---		5404	B	20	L	20/1	PEDESTRIAN LIGHT POLE	10
11	---	---		5790	C				SPACE	12
13	SPACE				A				SPACE	14
15	SPACE				B				SPACE	16
17	SPACE				C				SPACE	18
19	SPACE				A				SPACE	20
21	SPACE				B				SPACE	22
23	SPACE				C				SPACE	24
25	SPACE				A				SPACE	26
27	SPACE				B				SPACE	28
29	SPACE				C				SPACE	30

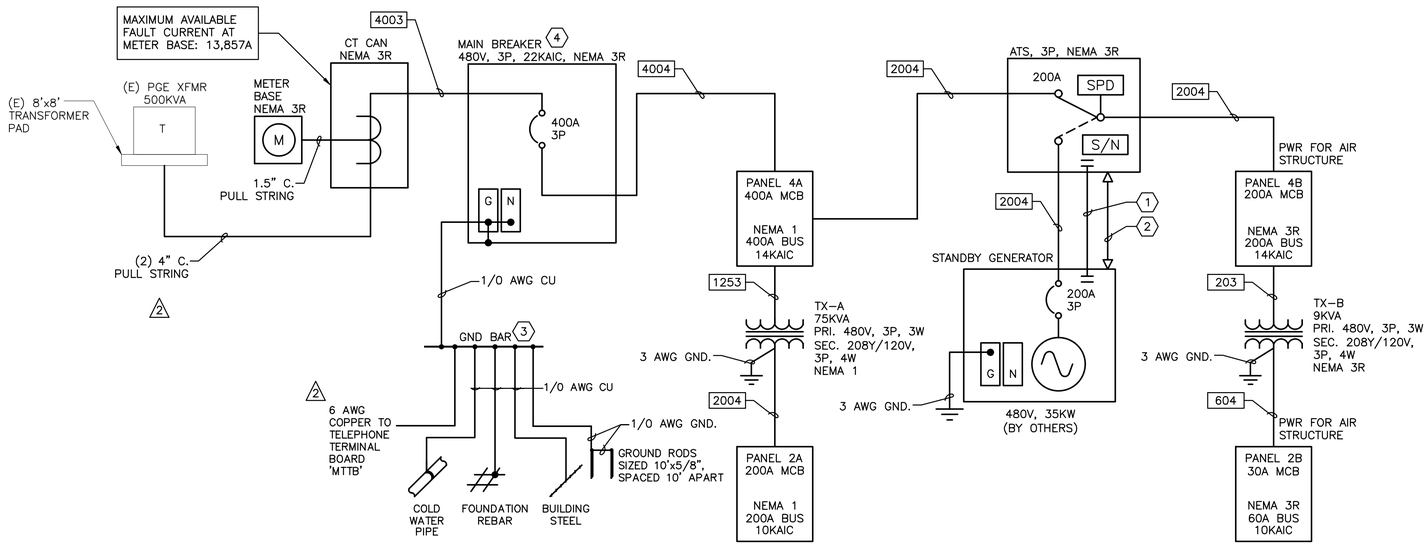
CONNECTED LOAD				.....NOTES.....
LOAD PER PHASE (VA)	A=	34,673	VA	1.
	B=	27,848	VA	
	C=	25,640	VA	2.
LOAD PER PHASE (AMPS)	A=	125.2	A	3.
	B=	100.5	A	
	C=	92.6	A	4.
TOTAL LOAD (KVA)		88.2	KVA	5.
TOTAL LOAD AMPS		106.0	A	

PANEL: 4B | BUS: 200 A | DATE: 02/10/26 | VOLTAGE: 277 / 480 VOLTS, 3 PHASE, 4 WIRE

FEEDER: SEE ONE-LINE DIAGRAM | MAIN BRKR: 200 A | MOUNTING: SURFACE

CKT NO.	CIRCUIT DESCRIPTION	CKT BKR AMPS/POLE	LOAD TYPE	LOAD VA	PHASE	LOAD VA	LOAD TYPE	CKT BKR AMPS/POLE	CIRCUIT DESCRIPTION	CKT NO.
1	PANEL 2B (XFMR)	20/3	Z	628	A	1930	L	20/1	JB-1, AIR STRUCTURE INTERIOR COURT LIGHTING	2
3	---	---	Z	1000	B	2316	L	20/1	JB-2, AIR STRUCTURE INTERIOR COURT LIGHTING	4
5	---	---	Z	680	C	2702	L	20/1	JB-3, AIR STRUCTURE INTERIOR COURT LIGHTING	6
7	SPACE				A	1158	L	20/1	JB-4, AIR STRUCTURE INTERIOR COURT LIGHTING	8
9	STANDBY INFLATION UNIT (SEE NOTES 1 & 2)	20/2	M	2796	B	1158	L	20/1	JB-5, AIR STRUCTURE INTERIOR COURT LIGHTING	10
11	---	---	M	2796	C	1930	L	20/1	JB-6, AIR STRUCTURE INTERIOR COURT LIGHTING	12
13	SPACE				A	3088	L	20/1	JB-7, AIR STRUCTURE INTERIOR COURT LIGHTING	14
15	SPACE				B	1930	L	20/1	JB-8, AIR STRUCTURE INTERIOR COURT LIGHTING	16
17	SPACE				C	1158	L	20/1	JB-9, AIR STRUCTURE INTERIOR COURT LIGHTING	18
19	SPACE				A	1158	L	20/1	JB-10, AIR STRUCTURE INTERIOR COURT LIGHTING	20
21	SPACE				B				SPACE	22
23	SPACE				C				SPACE	24
25	SPACE				A				SPACE	26
27	SPACE				B				SPACE	28
29	SPACE				C				SPACE	30

CONNECTED LOAD				.....NOTES.....
LOAD PER PHASE (VA)	A=	7,962	VA	1. SEE SHEET AS12 FOR THE FARELY GROUP'S AIR STRUCTURE COMPONENT DATA.
	B=	9,200	VA	
	C=	9,266	VA	2. 7.5HP MOTOR. COORDINATE MAIN SUPPLY VOLTAGE & PHASE WITH FARELY GROUP.
LOAD PER PHASE (AMPS)	A=	28.7	A	3. CONTRACTOR TO PROVIDE/INSTALL ALL WIRING FOR AIR STRUCTURE EQUIPMENT,
	B=	33.2	A	BUT NOT TO MAKE FINAL CONNECTIONS. FARLEY GROUP CONTRACTOR
	C=	33.5	A	TO MAKE FINAL WIRING CONNECTIONS TO AIR STRUCTURE EQUIPMENT.
TOTAL LOAD (KVA)		26.4	KVA	4.
TOTAL LOAD AMPS		31.8	A	



1 E0.02 ONE-LINE DIAGRAM
NO SCALE

FEEDER SCHEDULE

TYPE	DESCRIPTION
203	(3) #12 CU THWN, (1) #12 CU GND., IN 3/4"C.
604	(3) #4 CU THWN, (1) #4 CU N, #10 CU GND., IN 1"C.
1253	(3) #1 CU THWN, (1) #6 CU GND., IN 1 1/2"C.
2004	(3) #3/0 CU THWN, (1) #3/0 CU N, #2 CU GND., IN 2"C.
4003	(3) 600 KCMIL CU THWN, (1) #1/0 CU GND., IN 4"C.
4004	(3) 600 KCMIL CU THWN, (1) 600 KCMIL CU N, (1) #1/0 CU GND., IN 4"C.

NOTE: FEEDER SCHEDULE APPLIES TO ALL ELECTRICAL DRAWINGS AND SCHEDULES.

KEYED NOTES

1. 1" RGS FOR LINE VOLTAGE CONTROL WIRING FROM GENERATOR DRY CONTACTS TO (ATS) AUTO TRANSFER SWITCH.
2. 1" RGS FOR LOW VOLTAGE CONTROL CABLING.
3. GROUND BAR FOR THE SERVICE MAIN TO BE LOCATED INSIDE OF THE BUILDING IN THE AIR STRUCTURE STORAGE ROOM.
4. MAIN BREAKER ENCLOSURE IS LOCATED OUTSIDE OF THE BUILDING.

FWD//
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DATE: 02/10/2026
DRAWN BY: R&W

Bid Set

REVISIONS:

STAMP:

REGISTERED PROFESSIONAL ENGINEER
88445PE
OREGON
NOV 12, 2019
JONATHAN PATRICK LILLY
RENEWAL DATE: 12/31/2026
2026.02.10 18:07:16-08'00'

ELECTRICAL SCHEDULES

E0.02

PANEL: 2A		BUS: 200 A			DATE: 02/10/26			VOLTAGE: 120 / 208 VOLTS, 3 PHASE, 4 WIRE		
FEEDER: SEE ONE-LINE DIAGRAM		MAIN BRKR: 200 A						MOUNTING: SURFACE		
CKT NO.	CIRCUIT DESCRIPTION	CKT BKR AMPS/POLE	LOAD TYPE	LOAD VA	PHASE	LOAD VA	LOAD TYPE	CKT BKR AMPS/POLE	CIRCUIT DESCRIPTION	CKT NO.
1	LUMINAIRE DRIVER CABINETS 1, 2, 3, 4	20/1	L	1476	A	528	M	20/1	EXHAUST FAN EF-1	2
3	LUMINAIRE DRIVER CABINETS 5, 6, 7	20/1	L	1086	B	749	H	20/2	ELEC WALL HEATER EWH-1	4
5	CHECK-IN COUNTER LIGHTS, UNDER-CABINET LIGHTS	20/1	L	1527	C	749	H	---	---	6
7	STORAGE RMS, RESTRM SINK LIGHTS, EXTERIOR LIGHT	20/1	L	552	A	1498	H	20/2	ELEC WALL HEATER EWH-2	8
9	LIGHTING CONTROL PANEL	20/1	L	200	B	1498	H	---	---	10
11	EMERGENCY EXIT SIGNS	20/1	L	8	C	1498	H	20/2	ELEC WALL HEATER EWH-3	12
13	TELEVISIONS (SEE NOTE 1)	20/1	R	1200	A	1498	H	---	---	14
15	PRINTER (SEE NOTE 1)	20/1	R	500	B	3016	M	40/2	HEAT PUMP HP-1, FAN COIL FC-1	16
17	DRINKING WATER STATION	20/1	R	600	C	3016	M	---	---	18
19	MICROWAVE (SEE NOTE 2)	20/1	K		A	3016	M	40/2	HEAT PUMP HP-2, FAN COIL FC-2	20
21	STAFF RM FRIDGE	20/1	K	600	B	3016	M	---	---	22
23	CHECK-IN COUNTER MINI-FRIDGES	20/1	K	600	C	2392	M	30/2	HEAT PUMP HP-3, FAN COIL FC-3	24
25	ICE MACHINE (SEE NOTE 1)	20/1	K	800	A	2392	M	---	---	26
27	MICROWAVE (FUTURE)	20/1	K		B	180	H	20/1	WATER HEATER WH-1	28
29	DISHWASHER (SEE NOTE 1)	20/1	K	1500	C	500	H	20/1	NW RESTROOM HAND DRYER (SEE NOTE 1, 2)	30
31	CHECK-IN COUNTER COMPUTERS	20/1	Z	900	A	500	H	20/1	NE RESTROOM HAND DRYER (SEE NOTE 1, 2)	32
33	RESTROOM NO-TOUCH HAND FAUCETS (SEE NOTE 1, 2)	20/1	Z		B	500	H	20/1	SW RESTROOM HAND DRYER (SEE NOTE 1, 2)	34
35	RESTROOM RECEPTS	20/1	R	720	C	500	H	20/1	SE RESTROOM HAND DRYER (SEE NOTE 1, 2)	36
37	STAFF RM KITCHENETTE RECEPTS	20/1	R	540	A	500	Z	20/1	FIRE ALARM SYSTEM (SEE NOTE 1)	38
39	LOUNGE KITCHENETTE RECEPTS	20/1	R	540	B	500	M	20/1	AUTO DOOR OPENER (SEE NOTE 1)	40
41	SPARE	20/1			C	800	Z	20/1	SECURITY SYSTEM	42
43	STAFF RM RECEPTS	20/1	R	900	A	200	Z	20/1	TELECOM BOARD	44
45	WEST OFFICE RECEPTS	20/1	R	1440	B	500	Z	20/1	TIMESTAMP, WIRELESS ACCESS POINTS (SEE NOTE 1)	46
47	EAST OFFICE RECEPTS	20/1	R	1440	C		K	20/1	GARBAGE DISPOSAL (SEE NOTE 1, 2)	48
49	UTILITY/STORAGE ROOMS RECEPTS	20/1	R	900	A	180	H	20/1	INSTANT WATER HEATER IH-1	50
51	LOUNGE RECEPTS	20/1	R	900	B	95	M	20/1	RECIRCULATION PUMP RCP-1	52
53	EXTERIOR RECEPTS, SOUTH ENTRY RECEPTS	20/1	R	1080	C				SPACE	54
55	SPACE				A				SPACE	56
57	SPACE				B				SPACE	58
59	SPACE				C				SPACE	60
61	SPACE				A				SPACE	62
63	SPACE				B				SPACE	64
65	SPACE				C				SPACE	66
67	SPACE				A				SPACE (FUTURE SOLAR POWER BREAKER)	68
69	SPACE				B				SPACE (FUTURE SOLAR POWER BREAKER)	70
71	SPACE				C				SPACE (FUTURE SOLAR POWER BREAKER)	72

CONNECTED LOAD				.....NOTES.....
LOAD PER PHASE (VA)	A=	17,579	VA	1. LOAD VALUE IS ESTIMATION.
	B=	15,319	VA	
	C=	15,850	VA	2. NO LOAD VALUE BECAUSE LOAD DOES NOT HAVE CONTINUOUS USE (POWERED ON FOR 15 MINUTES OR MORE).
LOAD PER PHASE (AMPS)	A=	146.5	A	3.
	B=	127.7	A	
	C=	132.1	A	4.
TOTAL LOAD (KVA)		48.7	KVA	5.
TOTAL LOAD AMPS		135.3	A	

PANEL: 2B		BUS: 60 A			DATE: 02/10/26			VOLTAGE: 120 / 208 VOLTS, 3 PHASE, 4 WIRE		
FEEDER: SEE ONE-LINE DIAGRAM		MAIN BRKR: 30 A						MOUNTING: SURFACE		
CKT NO.	CIRCUIT DESCRIPTION	CKT BKR AMPS/POLE	LOAD TYPE	LOAD VA	PHASE	LOAD VA	LOAD TYPE	CKT BKR AMPS/POLE	CIRCUIT DESCRIPTION	CKT NO.
1	AIRLOCK AUTOMATED DOOR OPERATOR (SEE NOTES 1 & 2)	20/1	Z	500	A	128	L	20/1	EXIT SIGN, EMERGENCY LIGHT	2
3	PRIMARY HEAT & INFLATION UNIT (SEE NOTES 1 & 2)	20/1	H	1000	B			20/1	SPARE	4
5	INFLATION UNIT SERVICE RECEPT, LIGHTING (SEE NOTES 1 & 2)	20/1	R	180	C	500	Z	20/1	REMOTE CONTROLS PANEL POWER	6
7	SPACE				A				SPACE	8
9	SPACE				B				SPACE	10
11	SPACE				C				SPARE	12

CONNECTED LOAD				.....NOTES.....
LOAD PER PHASE (VA)	A=	628	VA	1. SEE SHEET AS12 FOR THE FARELY GROUP'S AIR STRUCTURE COMPONENT DATA.
	B=	1,000	VA	
	C=	680	VA	2. LOAD VALUE IS ESTIMATED.
LOAD PER PHASE (AMPS)	A=	5.2	A	3. CONTRACTOR TO PROVIDE AND INSTALL ALL WIRING FOR AIR STRUCTURE EQUIPMENT, BUT IS NOT TO MAKE FINAL CONNECTIONS. FARLEY GROUP CONTRACTOR TO MAKE FINAL WIRING CONNECTIONS TO AIR STRUCTURE EQUIPMENT.
	B=	8.3	A	
	C=	5.7	A	
TOTAL LOAD (KVA)		2.3	KVA	4.
TOTAL LOAD AMPS		6.4	A	

EQUIPMENT CONNECTION SCHEDULE

TAG	DESCRIPTION	LOCATION	LOAD	VOLT/PH	CIRCUIT	DISCONNECT	FEEDER	NOTES
EF-1	EXHAUST FAN	RESTROOM	4.4A	115V / 1PH	2A-2	20AS, 20AF	(2) 12 AWG (1) 12 GND IN 1" C.	
EWH-1	ELEC WALL HEATER	UTILITY RM	7.2A	208V / 1PH	2A-4,6	20AS, 20AF	(2) 12 AWG (1) 12 GND IN 1" C.	
EWH-2	ELEC WALL HEATER	STORAGE RM	14.4A	208V / 1PH	2A-8,10	20AS, 20AF	(2) 12 AWG (1) 12 GND IN 1" C.	
EWH-3	ELEC WALL HEATER	STORAGE RM	14.4A	208V / 1PH	2A-12,14	20AS, 20AF	(2) 12 AWG (1) 12 GND IN 1" C.	
FC-1	FAN COIL	CEILING	4.25 MCA	208V / 1PH	2A-16,18	MANUAL SW.	(2) 12 AWG (1) 12 GND IN 1" C.	2
FC-2	FAN COIL	CEILING	3.5 A	208V / 1PH	2A-20,22	MANUAL SW.	(2) 12 AWG (1) 12 GND IN 1" C.	2
FC-3	FAN COIL	CEILING	2.25 A	208V / 1PH	2A-24,26	MANUAL SW.	(2) 12 AWG (1) 12 GND IN 1" C.	2
HP-1	HEAT PUMP	EXTERIOR	29 A	208V / 1PH	2A-16,18	60AS, 40AF	(2) 8 AWG (1) 10 GND IN 1" C.	
HP-2	HEAT PUMP	EXTERIOR	29 A	208V / 1PH	2A-20,22	60AS, 40AF	(2) 8 AWG (1) 10 GND IN 1" C.	
HP-3	HEAT PUMP	EXTERIOR	23 A	208V / 1PH	2A-24,26	60AS, 30AF	(2) 10 AWG (1) 10 GND IN 1" C.	
WH-1	WATER HEATER	MECH ROOM	180 W	120V / 1 PH	2A-28	20AS, 20AF	(2) 12 AWG (1) 12 GND IN 3/4" C.	1, 4
RCP-1	RECIRCULATION PUMP	MECH ROOM	1/25 HP, 0.79A	120V / 1 PH	2A-52	20AS, 20AF	(2) 12 AWG (1) 12 GND IN 3/4" C.	
IH-1	INSTANT WATER HEATER	BREAKROOM	180 W	120V / 1 PH	2A-50	MANUAL SW.	(2) 12 AWG (1) 12 GND IN 3/4" C.	5

NOTES:
1. VERIFY ELECTRICAL REQUIREMENTS OF FINAL SELECTED MODEL PRIOR TO INSTALLATION. LOAD IS AN ESTIMATION.
2. POWERED BY ASSOCIATED HEAT PUMP.
3. GENERAL NOTE, DISCONNECT SHOWN IS NOT REQUIRED IF EQUIPMENT COMES WITH INTEGRAL DISCONNECT.
4. PROVIDE POWER TO GAS-FUELED WATER HEATER IGNITER.
5. POWERED BY RECEPTACLE.

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REGISTERED PROFESSIONAL ENGINEER
88445PE
OREGON
NOV 12, 2015
JONATHAN PATRICK LILLY
RENEWAL DATE: 12/31/2026
2026.02.10 18:07:36-08'00'

ELECTRICAL SCHEDULES

E0.03

PHOTOMETRIC ANALYSIS SUMMARY (INTERIOR)

STATISTICS			TARGET VALUES		DESIGN VALUES				
DESCRIPTION	AREA	ZONE	AVERAGE	AVG/MIN	SYMBOL	AVERAGE	MAX	MIN	AVG/MIN
RM 101 ENTRY	INDOOR	ENTRY LOBBY	10–20 fc	4:1	+	32.1 fc	41.3 fc	15.6 fc	2.1:1
RM 102 CHECK–IN	INDOOR	RECEPTION LOBBY, DESK TOP, 3.5' AFF	15–30 fc	4:1	+	22.4 fc	44.3 fc	11.4 fc	2.0:1
RM 102 CHECK–IN	INDOOR	FOCAL WALL BEHIND DESK, FEATURE	–	10:1	+	22.4 fc	44.3 fc	11.4 fc	2.0:1
RM 103 COURT ACCESS	INDOOR	ENTRY LOBBY	10–20 fc	4:1	+	40.5 fc	45.4 fc	36.3 fc	1.1:1
COURT ENTRY, REVOLVING DOOR	INDOOR	BUILDING ENTRY VESTIBULE	15–20 fc	2:1	+	13.8 fc	22.4 fc	7.7 fc	1.8:1
COURT VESTIBULE	INDOOR	BUILDING ENTRY, VESTIBULE	15–20 fc	2:1	+	14.3 fc	23.2 fc	8.1 fc	1.8:1
RM 104 LOUNGE	INDOOR	LOUNGE, SOCIAL/WAITING AREA	>= 8 fc	2:1	+	37.7 fc	58.4 fc	14.8 fc	2.5:1
RM 105 NORTH HALL	INDOOR	TRANSITION SPACE, PASSAGEWAY	>= 5 fc	–	+	34.1 fc	45.2 fc	25.2 fc	1.4:1
RM 106 RESTROOM	INDOOR	RESTROOM, 2' AFF	15–30 fc	2:1	+	30.8 fc	35.4 fc	26.8 fc	1.1:1
RM 107 RESTROOM	INDOOR	RESTROOM, 2' AFF	15–30 fc	2:1	+	33.1 fc	36.2 fc	29.6 fc	1.1:1
RM 108 RESTROOM	INDOOR	RESTROOM, 2' AFF	15–30 fc	2:1	+	30.8 fc	35.4 fc	26.7 fc	1.2:1
RM 109 RESTROOM	INDOOR	RESTROOM, 2' AFF	15–30 fc	2:1	+	32.9 fc	36.9 fc	29.3 fc	1.1:1
RM 110 OFFICE	INDOOR	HANDWRITTEN WORK, 2.5' AFF	30–50 fc	1.5:1	+	49.7 fc	59.2 fc	35.5 fc	1.4:1
RM 111 OFFICE	INDOOR	HANDWRITTEN WORK, 2.5' AFF	30–50 fc	1.5:1	+	49.5 fc	59.0 fc	35.6 fc	1.4:1
RM 112 STORAGE/UTILITY	INDOOR	EQUIPMENT ROOM, 2.5' AFF	20–40 fc	3:1	+	30.6 fc	37.6 fc	12.3 fc	2.5:1
RM 113 EAST HALL	INDOOR	TRANSITION SPACE, PASSAGEWAY	>= 5 fc	–	+	34.5 fc	44.0 fc	21.1 fc	1.6:1
RM 114 STAFF	INDOOR	BREAK ROOM, 2.5' AFF	>= 20 fc	–	+	45.1 fc	94.1 fc	26.1 fc	1.7:1
RM 150 EXTERIOR STORAGE	INDOOR	STORAGE, INFREQUENT USE	>= 10 fc	–	+	21.1 fc	28.8 fc	10.3 fc	2.0:1

NOTE: TARGET VALUES FROM ILLUMINATING ENGINEERING SOCIETY (IES) GUIDELINES.

PHOTOMETRIC ANALYSIS SUMMARY (EXTERIOR)

STATISTICS			TARGET VALUES			DESIGN VALUES				
DESCRIPTION	AREA	ZONE	AVERAGE	MIN	AVG/MIN	SYMBOL	AVERAGE	MAX	MIN	MAX/MIN	AVG/MIN
COVERED PLAZA	OUTDOOR	CANOPIED ENTRY, LOW ACTIVITY	>= 1.6 fc	–	2:1	+	21.5 fc	31.2 fc	4.2 fc	7.4:1	3.1:1
COVERED PERGOLA	OUTDOOR	CANOPIED ENTRY, LOW ACTIVITY	>= 1.6 fc	–	2:1	+	17.3 fc	32.7 fc	4.3 fc	7.6:1	4.0:1
COVERED CATERING AREA	OUTDOOR	CANOPIED ENTRY, LOW ACTIVITY	>= 1.6 fc	–	2:1	+	17.1 fc	29.5 fc	3.8 fc	7.8:1	4.5:1
DONOR PLAZA, ENTRANCE PATH	OUTDOOR	BUILDING ENTRY, PATH TO CURB, LOW ACTIVITY	>= 0.4 fc	–	3:1	+	3.1 fc	4.9 fc	1.9 fc	2.6:1	1.6:1
DONOR PLAZA, STAIRS	OUTDOOR	BUILDING ENTRY, PATH TO CURB, LOW ACTIVITY	>= 0.4 fc	–	3:1	+	1.9 fc	7.7 fc	0.3 fc	25.7:2	6.3:1
DONOR PLAZA, RAMP	OUTDOOR	BUILDING ENTRY, PATH TO CURB, LOW ACTIVITY	>= 0.4 fc	–	3:1	+	3.6 fc	10.2 fc	0.4 fc	25.5:1	9.0:1
PICKLEBALL COURT 1 (NORTH)*	OUTDOOR	PICKLEBALL, CLUB	>= 50 fc	40 fc	2:1	+	54.3 fc	75.8 fc	32.1 fc	2.4:1	1.7:1
PICKLEBALL COURT 2 (NORTH)*	OUTDOOR	PICKLEBALL, CLUB	>= 50 fc	40 fc	2:1	+	52.3 fc	74.8 fc	39.2 fc	1.9:1	1.3:1
PICKLEBALL COURT 3 (NORTH)*	OUTDOOR	PICKLEBALL, CLUB	>= 50 fc	40 fc	2:1	+	53.3 fc	78.8 fc	38.2 fc	2.1:1	1.4:1
PICKLEBALL COURT 4 (NORTH)*	OUTDOOR	PICKLEBALL, CLUB	>= 50 fc	40 fc	2:1	+	53.6 fc	74.3 fc	38.4 fc	2.0:1	1.4:1
PICKLEBALL COURT 5 (NORTH)*	OUTDOOR	PICKLEBALL, CLUB	>= 50 fc	40 fc	2:1	+	53.2 fc	72.8 fc	40.6 fc	1.8:1	1.3:1
PICKLEBALL COURT 6 (NORTH)*	OUTDOOR	PICKLEBALL, CLUB	>= 50 fc	40 fc	2:1	+	53.6 fc	74.3 fc	31.8 fc	2.3:1	1.7:1
PICKLEBALL COURT 7 (SOUTH)*	OUTDOOR	PICKLEBALL, CLUB	>= 50 fc	40 fc	2:1	+	52.2 fc	76.4 fc	29.0 fc	2.6:1	1.8:1
PICKLEBALL COURT 8 (SOUTH)*	OUTDOOR	PICKLEBALL, CLUB	>= 50 fc	40 fc	2:1	+	53.0 fc	75.9 fc	38.9 fc	2.0:1	1.4:1
PICKLEBALL COURT 9 (SOUTH)*	OUTDOOR	PICKLEBALL, CLUB	>= 50 fc	40 fc	2:1	+	51.1 fc	81.2 fc	38.1 fc	2.1:1	1.3:1
PICKLEBALL COURT 10 (SOUTH)*	OUTDOOR	PICKLEBALL, CLUB	>= 50 fc	40 fc	2:1	+	54.4 fc	80.7 fc	38.7 fc	2.1:1	1.4:1
PICKLEBALL COURT 11 (SOUTH)*	OUTDOOR	PICKLEBALL, CLUB	>= 50 fc	40 fc	2:1	+	56.5 fc	79.1 fc	40.2 fc	2.0:1	1.4:1
PICKLEBALL COURT 12 (SOUTH)*	OUTDOOR	PICKLEBALL, CLUB	>= 50 fc	40 fc	2:1	+	54.6 fc	77.1 fc	30.2 fc	2.6:1	1.8:1

NOTE: TARGET VALUES FROM ILLUMINATING ENGINEERING SOCIETY (IES) GUIDELINES.
NOTE: AVERAGE OUTDOOR PICKLEBALL LIGHTING LEVEL IS RECOMMENDED BY APPLICATION – RECREATIONAL (30 FC), CLUB (50 FC), PROFESSIONAL (75 FC).
* TARGET VALUES FROM USA PICKLEBALL'S LIGHTING PARTNER, LSI INDUSTRIES. ILLUMINATION MEASURED 3' AFF PER IES GUIDELINES.

INTERIOR LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMP TYPE	MANUFACTURER & MODEL NUMBER	WATTAGE
A1	6' UNDER CABINET LED STRIP LIGHT, FROSTED LENS, HARD SURFACE MOUNTING BRACKET, SILVER ANODIZED FINISH FINAL LENGTH TO BE DETERMINED BY CONTRACTOR	(1) LED, 543 LM/FT, 3000 K CCT, 90 CRI, 130 LM/W, 24V	LUMINII KRL 88" 60X2HO 30K F HS SA	52 W
A2	SAME AS A1 EXCEPT LENGTH IS 100" FINAL LENGTH TO BE DETERMINED BY CONTRACTOR	(1) LED, 543 LM/FT, 3000 K CCT, 90 CRI, 130 LM/W, 24V	LUMINII KRL 100" 60X2HO 30K F HS SA	59 W
B1	RECESSED DOWNLIGHT, MILLWORK KNIFE–EDGE TRIM, BLACK BEVEL, BLACK FLANGE, NEW CONSTRUCTION NARROW WIDTH, COLLAR EXTENDER, REMOTE DIMMING DRIVER, 27" CHANNEL BARS	(47) LED, 3177 LM 3000K CCT, 90 CRI 94 LM/W, 120/277V	USAI B4SDM 33C3 30KH 50 S BL BL NCSM–EXT16 RM CB27 UNV	33W
B2	SAME AS B1 EXCEPT WITH 24W	(15) LED, 2529 LM 3000K CCT, 90 CRI 105 LM/W, 120/277V	USAI B4SDM 24C3 30KH 50 S BL BL NCSM–EXT16 RM CB27 UNV	24W
B3	SAME AS B2 EXCEPT WITH WHITE TRIM AND WHITE FLANGE, AND NO COLLAR EXTENSION	(8) LED, 2529 LM 3000K CCT, 90 CRI 94 LM/W, 120/277V	USAI B4SDF 24C3 30KH 50 S WH WH NCSM–RM CB27 UNV	24W
C1	WALL MOUNTED LIGHT, MILLWORK KNIFE–EDGE TRIM, TILTED WALL WASH OPTIC BEAM, DIFFUSION GLASS LENS, BLACK BEVEL, BLACK FLANGE, NEW CONSTRUCTION NARROW WIDTH, REMOTE DIMMING DRIVER, 27" CHANNEL BARS	(7) LED, 3177 LM 3000K CCT, 90 CRI 94 LM/W, 120/277V	USAI B4SWM 33C3 30KH W1 D1 BL BL NCSM–RM CB27 UNV	33W
C2	SAME AS C1 EXCEPT 24W	(2) LED, 2529 LM 3000K CCT, 90 CRI 94 LM/W, 120/277V	USAI B4SWM 24C3 30KH W1 D1 BL BL NCSM–RM CB27 UNV	24W
D	SUSPENDED INTERIOR PENDANT, 1 LAMP, WHITE BODY, WHITE CANOPY	(4) LED 120V	FLOS FU301061 WHITE	150W
F	4' VAPOR TIGHT, SELECTABLE CCT, FROSTED LENS, WITH STAINLESS STEEL ADJUSTABLE AIRCRAFT CABLE KIT, 7 W/FT	(7) LED 120/277V	ILP VVT4 5L U CCTS FRL ACxL/SS	28W
G	WALL MOUNTED LIGHT, 1 LAMP, WHITE BODY	(4) HALOGEN 120V	FLOS FU333509 WHITE	40 W
X	RECESSED–MOUNT EXIT SIGN, IMPACT RESISTANT ACRYLIC LENS, 90–MIN BATTERY POWER, EDGIE–LIT, RED LETTER COLOR, ALUMINUM HOUSING	LED 120/277V	COOPER LIGHTING EUR60R	2 W

NOTE: ALL FIXTURES AS SPECIFIED, OR APPROVED EQUAL. ALL LUMINAIRE CALCULATIONS HAVE 85% LIGHT LOSS FACTOR APPLIED.
FOR FIXTURE TYPES 'B' AND 'C', ROUTE 120V WIRING TO REMOTE DRIVER CABINET, THEN ROUTE 24V WIRING FROM CABINET TO LUMINAIRE FIXTURE.

INVERTER LOAD SUMMARY

LOAD	DESCRIPTION	UNIT QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
PHONE	AT FRONT DESK	1	180	180
LIGHTING	FIXTURE TYPE 'B1'	6	33	198
LIGHTING	FIXTURE TYPE 'B2'	6	24	144
LIGHTING	FIXTURE TYPE 'F'	1	28	28
LIGHTING	FIXTURE TYPE 'L'	10	3	30
TOTAL INVERTER LOAD WATTAGE:				580
SPARE CAPACITY (25% OF TOTAL LOAD WATTAGE):				145.0
MINIMUM INVERTER SIZE WATTAGE:				725.0

NOTE: INVERTER TO BE SIZED 125% OF LOAD TO ALLOW FOR INRUSH CURRENT (906W).

EXTERIOR LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMP TYPE	MANUFACTURER & MODEL NUMBER	WATTAGE
H	WALL MOUNTED AREA LUMINAIRE, WEDGE SHAPE, FORMED METAL BODY, DIMMING DRIVER 0–10V, MOUNT TO OCTAGONAL JUNCTION BOX	LED, 955 LM 3000K CCT, 90 CRI, 68 LM/W	SPI LIGHTING AEW8093–L14W–120–277V–3000K–DF_90+HE	14 W
L	HANDRAIL–RECESSED POD LUMINAIRE, SPACE 8' APART ALONG HANDRAIL, OPAQUE FROST LENS, ASYMMETRIC DISTRIBUTION, PHASE DIMMING, COORDINATE RAIL WALL THICKNESS AND BEZEL MATERIAL W/ LANDSCAPE & ARCHITECTURAL	LED, 160 LM 3000K CCT, 80–85 CRI, 62 LM/W	KLIK LP40–3000K–A–CUST–FR–700–PH	3 W
M	POLE MOUNTED AREA LUMINAIRE, ARBOR POST TOP, GREY FINISH, TYPE 4 DISTRIBUTION, DIMMING DRIVER 120–277V, MATCH POLE TO EXISTING PARKING LOT AREA LIGHT POLES, USE 10' TYPE P POLE, MATCH POLE HEIGHT TO NEARBY PARKING LOT LIGHT POLES	LED, 2408LM 3000 K CCT, 70 CRI, 100 LM/W	COOPER ARB–B1–LED–D1–T4–AP–7030	21 W
P	POLE MOUNTED AREA LUMINAIRE, ALUMINUM BODY, BLACK COLOR (CUSTOM REQUEST), ADJUSTABLE MOUNT, UL LISTED, ASYMMETRIC BEAM, 100–277V INPUT, 75 LBS, TILT FIXTURE 20 DEGREES ABOVE HORIZON, VERIFY ARM MOUNTING PRIOR TO PURCHASE	LED, 104000LM, 5000 K CCT, 70 CRI, 130 LM/W	SHINETOO ST–G1–S3–800–NICHIA–MEANWELL–5K–70–100–277V	800 W
ARM P2	ROUND CROSS ARM, (2) 4" TALL 2–3/8" DIAMETER TENONS, 24" TENON SPACING, BLACK FINISH, GALVANIZED STEEL, MOUNT ARM ON 2–3/8" DIAMETER POLE TENON	--	TECHLIGHT RV–2–S–GLVPBK	--
ARM P3	ROUND CROSS ARM, (3) 4" TALL 2–3/8" DIAMETER TENONS, 24" TENON SPACING, BLACK FINISH, GALVANIZED STEEL, MOUNT ARM ON 2–3/8" DIAMETER POLE TENON	--	TECHLIGHT RV–3–S–GLVPBK	--
POLE P	ROUND STRAIGHT GALVONIZED STEEL POLE, 2–3/8" TENON MOUNT, 11 GAUGE, BLACK FINISH, HAND HOLE, 5" OUTER DIAMETER, POLE HEIGHT VARIES DUE TO SLOPED MOUNTING SURFACE, COORDINATE FINAL POLE HEIGHT WITH ARCHITECT, TYPE 'P' FIXTURES TO BE 30' ABOVE GRADE	--	TECHLIGHT RSP–30–5–11–GLVPBK–T238	--
⊕	SUSPENDED INDIRECT COURT LIGHT, HEX FAMILY, FLAT WIRE CAGE, 480V INPUT, SAMSUNG LINEAR MODULE, 3–POINT HANGING KIT	8 LED MODULES, 5000 K CCT, 80 CRI	BRITE LIGHT DID–HEX24IF–8386–50K–4–WCF–30	386 W

NOTE: ALL FIXTURES AS SPECIFIED, OR APPROVED EQUAL. ALL LUMINAIRE CALCULATIONS HAVE 85% LIGHT LOSS FACTOR APPLIED.
IF LEAD TIME FOR TYPE P LIGHT FIXTURES IS AN ISSUE, LOWER WATTAGE SHINETOO FIXTURE IS ACCEPTABLE. COORDINATE QUANTITIES OF ALTERNATE FIXTURE WITH ENGINEER.
ADJUST MAST ARM PER QUANTITY OF LIGHT FIXTURES.

LIGHTING CONTROLS SCHEDULE

LOCATION	PROPOSED LIGHTING CONTROL DESIGN	SEQUENCE OF OPERATION
MAIN ENTRY AREA / LOBBY RM 101	MANUAL LIGHT SWITCH DIMMABLE PHOTOCELL/DAYLIGHT CONTROL OCCUPANCY SENSOR	MANUAL ON AUTO–OFF BY OCCUPANCY
CHECK–IN COUNTER PENDANTS RM 102	MANUAL LIGHT SWITCH DIMMABLE PHOTOCELL/DAYLIGHT CONTROL OCCUPANCY SENSOR SEPARATE FROM GENERAL LIGHTING	MANUAL ON AUTO–OFF BY OCCUPANCY
CHECK–IN DISPLAY WALL (ACCENT)	MANUAL LIGHT SWITCH DIMMABLE SEPARATE FROM GENERAL LIGHTING	MANUAL ON
LOUNGE RM 104	MANUAL LIGHT SWITCH DIMMABLE PHOTOCELL/DAYLIGHT CONTROL OCCUPANCY SENSOR	MANUAL ON AUTO–OFF BY OCCUPANCY
RESTROOMS RM 106–109	OCCUPANCY SENSOR	AUTO–ON/AUTO–OFF BY OCCUPANCY SENSOR WITH MANUAL OVERRIDE
OFFICES RM 110, 111	MANUAL LIGHT SWITCH DIMMABLE OCCUPANCY SENSOR	MANUAL ON AUTO–OFF BY OCCUPANCY
STORAGE / UTILITY RM 112	MANUAL LIGHT SWITCH OCCUPANCY SENSOR	MANUAL ON AUTO–OFF BY OCCUPANCY
STAFF BREAKROOM RM 114	MANUAL LIGHT SWITCH DIMMABLE OCCUPANCY SENSOR	MANUAL ON AUTO–OFF BY OCCUPANCY
STORAGE RM 150	MANUAL LIGHT SWITCH OCCUPANCY SENSOR	MANUAL ON AUTO–OFF BY OCCUPANCY
EXTERIOR BLDG LIGHTS	MANUAL LIGHT SWITCH PHOTOCELL	MANUAL ON AUTO–OFF BY DAYLIGHT

NOTES:
1. CONTRACTOR TO PROVIDE FURNISHED AS–BUILT DRAWINGS FOR ELECTRIC POWER SYSTEM WITHIN 30 DAYS OF SYSTEM ACCEPTANCE.
2. CONTRACTOR TO PROVIDE FURNISHED O&M INSTRUCTIONS FOR SYSTEMS AND EQUIPMENT TO THE BUILDING OWNER OR DESIGNATED REPRESENTATIVE.
3. OCCUPANCY SENSORS TO TIME OUT AFTER 20–MINUTES.
4. DAYLIGHT CONTROLS TO PROVIDE CONTINUOUS DIMMING TO AT LEAST 15% OUTPUT. DAYLIGHT CONTROLS TO BE ABLE TO COMPLETELY SHUTOFF LIGHTS WITHIN LIGHTING ZONE.
5. BRANCH CIRCUITS SIZED FOR MAXIMUM DROP OF 3%.
6. AT LEAST 50% OF ALL 120V 15A AND 20A RECEPTACLES IN OFFICE SPACES ARE CONTROLLED BY AN AUTOMATIC CONTROL DEVICE.

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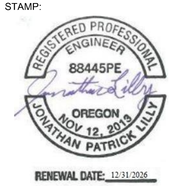

RENEWAL DATE: 12/31/2026
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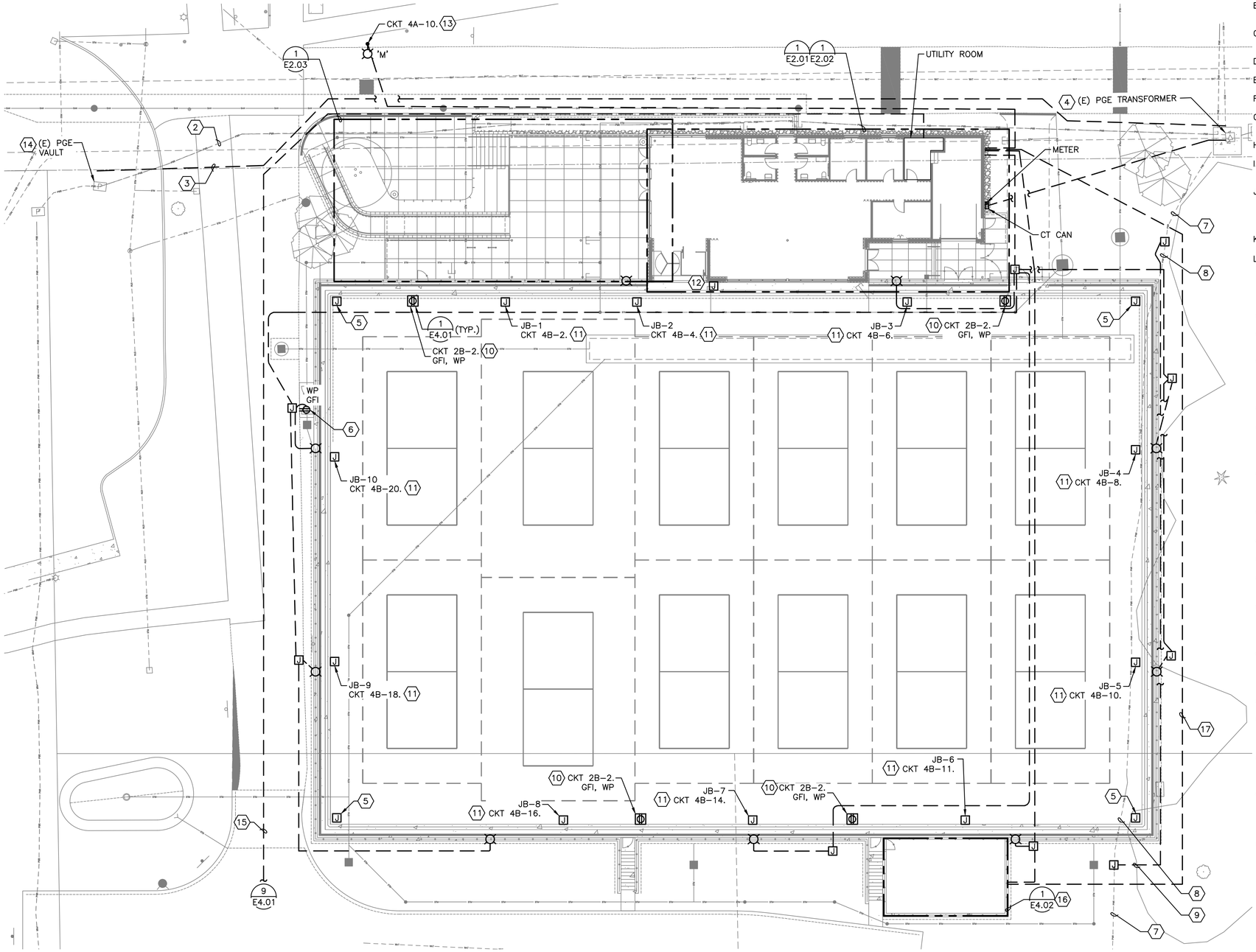
ELECTRICAL SCHEDULES

E0.04



1 E1.01 OVERALL SITE PLAN - POWER
SCALE: 1/16"=1'–0"

0 8 16 32 48

SCALE IN FEET
1/16" = 1'–0"

GENERAL NOTES

A. SEE SHEET E0.01 FOR LEGEND & ABBREVIATIONS.

B. PROVIDE FURNISHED AS–BUILT DRAWINGS FOR ELECTRIC POWER SYSTEM WITHIN 30 DAYS OF SYSTEM ACCEPTANCE.

C. PROVIDE FURNISHED O&M INSTRUCTIONS FOR SYSTEMS AND EQUIPMENT TO THE BUILDING OWNER OR DESIGNATED REPRESENTATIVE.

D. SEE SHEET E0.02 FOR ONE–LINE DIAGRAM WITH FEEDER DETAILS.

E. EVERY UTILIZED RACEWAY SHALL INCLUDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR.

F. FOR UTILITY PRIMARY POWER CONDUIT RUNS, USE FIBERGLASS ELBOWS ON UNDERGROUND BENDS.

G. FOR UTILITY SECONDARY POWER CONDUIT RUNS, USE FIBERGLASS ELBOWS ON UNDERGROUND BENDS WHEN TOTAL BENDS EXCEED 180 DEGREES, OTHERWISE USE PVC COATED RGS.

H. USE PVC COATED RGS ELBOWS ON UNDERGROUND BENDS, UNLESS OTHERWISE NOTED.

I. ALL SPLICES IN UNDERGROUND BOXES SHALL BE INSULATED AND WATERPROOFED, USING SCOTCHCAST EPOXY SPLICING COMPOUNDS SUITED FOR THE PURPOSE.

J. USE SCHEDULE 40 PVC CONDUIT WHEN ROUTING UNDERGROUND AND PVC–RGS WHEN ROUTING OUTSIDE ABOVE GROUND. AVOID EXPOSING CONDUIT UNLESS NECESSARY. PAINT EXPOSED ABOVE–GROUND CONDUIT TO MATCH SURROUNDINGS OR BUILDING/STRUCTURE BEING MOUNTED TO, COORDINATE COLOR WITH ARCHITECT.

K. USE EMT CONDUIT WHEN ROUTING ABOVE GRADE WITHIN BUILDING.

L. ALL NEW ELECTRICAL ROUTING TO BE DONE WITH (2) 12 AWG AND (1) 12 AWG GND UNLESS OTHERWISE NOTED.

KEYED NOTES

1. EXISTING VAULT TO REMAIN.
2. ABANDON PGE PRIMARY CONDUIT RUNNING UNDER NEW BUILDING SITE. CONDUIT TO BE REPLACED OUTSIDE OF NEW BUILDING SITE.
3. PROVIDE AND INSTALL NEW PRIMARY CONDUIT, DO NOT ROUTE UNDER NEW BUILDING SITE. SAW CUT EXISTING ROADWAY ASPHALT FOR INSTALLATION OF NEW UTILITY POWER UNDERGROUND FEED. REPAIR AND PATCH PER UTILITY AND CITY ROADWAY REQUIREMENTS POST INSTALLATION.
4. EXISTING PGE TRANSFORMER TO FEED NEW BUILDING LOAD.
5. SPARE JUNCTION BOX. PROVIDE AND INSTALL 2" CONDUIT WITH PULL STRING. ROUTE FROM PANEL 2B TO JUNCTION BOX. TO PROTECT JUNCTION BOX FROM FLOODING, TRENCH FRENCH DRAIN FROM UNDER JUNCTION BOX TO OUTSIDE OF NEAREST RETAINING WALL, COORDINATE PATH WITH CIVIL.
6. PROVIDE AND INSTALL NEW OUTLET ON CONCRETE RETAINING WALL. OUTLET TO BE RECESSED IF POSSIBLE. COORDINATE LOCATION OF OUTLET AND COLOR OF COVER WITH ARCHITECT AND OWNER.
7. INTERCEPT EXISTING LINE WITH J–BOX. THIS LINE IS NOT IN PGE'S RECORD SYSTEM AND IS ASSUMED BY PGE TO BE CUSTOMER–OWNED.
8. REMOVE EXISTING CONDUIT AND J–BOX ALONG PATH.
9. PROVIDE AND INSTALL NEW CONDUIT TO REPLACE EXISTING.
10. RECESSED OUTLET FOR EMERGENCY EXIT SIGN AND EMERGENCY LIGHTING. REQUIRES 120V/15A DEDICATED CIRCUIT.
11. JUNCTION BOX FOR 277V PLUG–IN SUSPENDED AIR STRUCTURE LIGHTING. TOTAL 10 JB POWERING 48 LIGHTS. TO PROTECT JUNCTION BOX FROM FLOODING, TRENCH FRENCH DRAIN FROM UNDER JUNCTION BOX TO OUTSIDE OF NEAREST RETAINING WALL, COORDINATE PATH WITH CIVIL.
12. JUNCTION BOX FOR AUTOMATIC DOORS. REQUIRES FOUR DEDICATED 120V/15A CIRCUITS, ONE FOR EACH AUTOMATIC DOOR OPERATOR. TO PROTECT JUNCTION BOX FROM FLOODING, TRENCH FRENCH DRAIN FROM UNDER JUNCTION BOX TO OUTSIDE OF NEAREST RETAINING WALL, COORDINATE PATH WITH CIVIL.
13. REFERENCE LANDSCAPE DESIGN FOR LIGHT POLE POST LOCATION.
14. REPLACE VAULT LID WITH TRAFFIC–RATED PGE–APPROVED LID. VAULT TO REMAIN. PROVIDE CUSTOM TRAFFIC–RATED LID FOR EXISTING 660 VAULT. COORDINATE LID REQUIREMENTS WITH PGE PRIOR TO PURCHASE.
15. PROVIDE AND INSTALL 2" CONDUIT WITH PULL STRING FROM NETWORK PANEL IN NEW BUILDING TO EXISTING ADMIN BUILDING. STUB UP AT ADMIN BUILDING, COORDINATE LOCATION OF STUB–UP WITH OWNER.
16. SEE SHEET AS11 FOR FARLEY GROUP ELECTRICAL WIRING BETWEEN AIR STRUCTURE EQUIPMENT AND PANELS '2B' AND '4B'. CONTRACTOR TO PROVIDE AND INSTALL ALL WIRING FOR AIR STRUCTURE EQUIPMENT, BUT NOT TO MAKE FINAL CONNECTIONS. FARLEY GROUP CONTRACTOR TO MAKE FINAL WIRING CONNECTIONS TO AIR STRUCTURE EQUIPMENT.
17. PROVIDE AND INSTALL 1" CONDUIT FOR REMOTE CONTROL PANEL WIRING. ROUTE FROM AIR STRUCTURE STORAGE ROOM TO MECHANICAL PAD. COORDINATE PANEL LOCATION IN STORAGE ROOM AND CONTROLS WIRING REQUIREMENTS FOR REMOTE PANEL WITH FARELY GROUP. PROVIDE AND INSTALL ADDITIONAL 1" CONDUIT FOR REMOTE CONTROL PANEL POWER, FED FROM PANEL 2B. COORDINATE REMOTE PANEL POWER REQUIREMENTS WITH FARELY GROUP.

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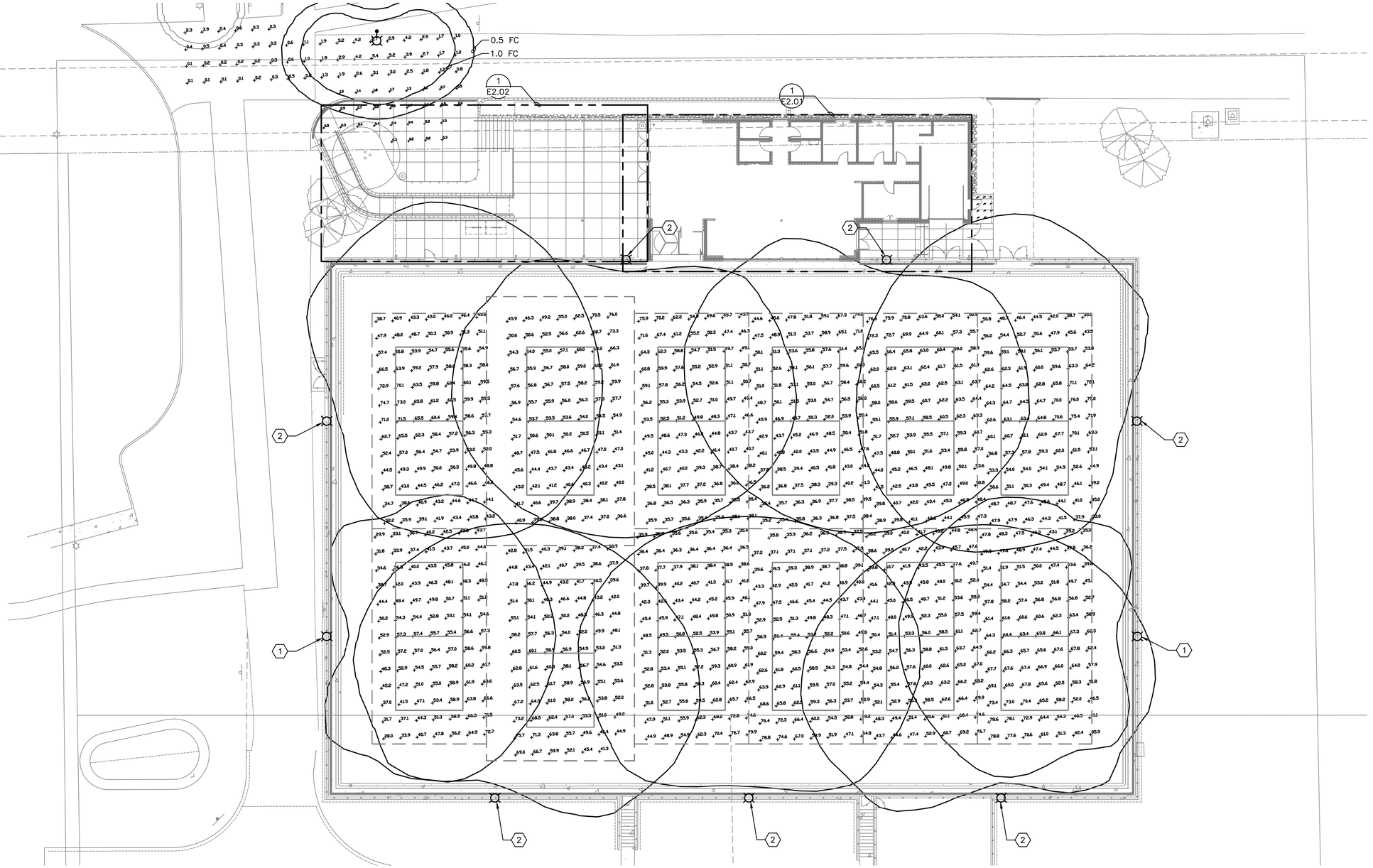
REGISTERED PROFESSIONAL ENGINEER
88445PE
OREGON
NOV 12, 2015
JONATHAN PATRICK LILLY

RENEWAL DATE: 12/31/2026
2026.02.10 18:58:11-08'00'

OVERALL SITE PLAN - POWER

E1.01



1 E1.02 OVERALL SITE PLAN - PHOTOMETRIC
SCALE: 1/16"=1'-0"

0 8 16 32 48

SCALE IN FEET
1/16" = 1'-0"

GENERAL NOTES

A. LUMINAIRE ISO CURVE INDICATES 10 FOOT CANDLE (FC) UNLESS OTHERWISE NOTED.

B. FOOT CANDLES ISO CURVE ARE SHOWN AS A SINGLE FIXTURE CONTRIBUTIONS WITH SET VALUES. THE ISO CURVE VALUES MAY NOT MATCH THE CALCULATION PLANE POINT VALUES, SINCE THE CALCULATION PLANE CAN BE A CONTRIBUTION FROM MORE THAN ONE LUMINAIRE.

C. SEE SHEET E0.04 FOR LUMINAIRE SCHEDULE AND PHOTOMETRIC SCHEDULES.

KEYED NOTES

1 (2) TYPE 'P' LIGHT FIXTURES TO BE MOUNTED ON ARM 'P2', MOUNTED 30' ABOVE ADJACENT COURT SURFACE ON POLE 'P'.

2 (3) TYPE 'P' LIGHT FIXTURES TO BE MOUNTED ON ARM 'P3', MOUNTED 30' ABOVE ADJACENT COURT SURFACE ON POLE 'P'.

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OREGON
NOV 12, 2013
JONATHAN PATRICK LILLY
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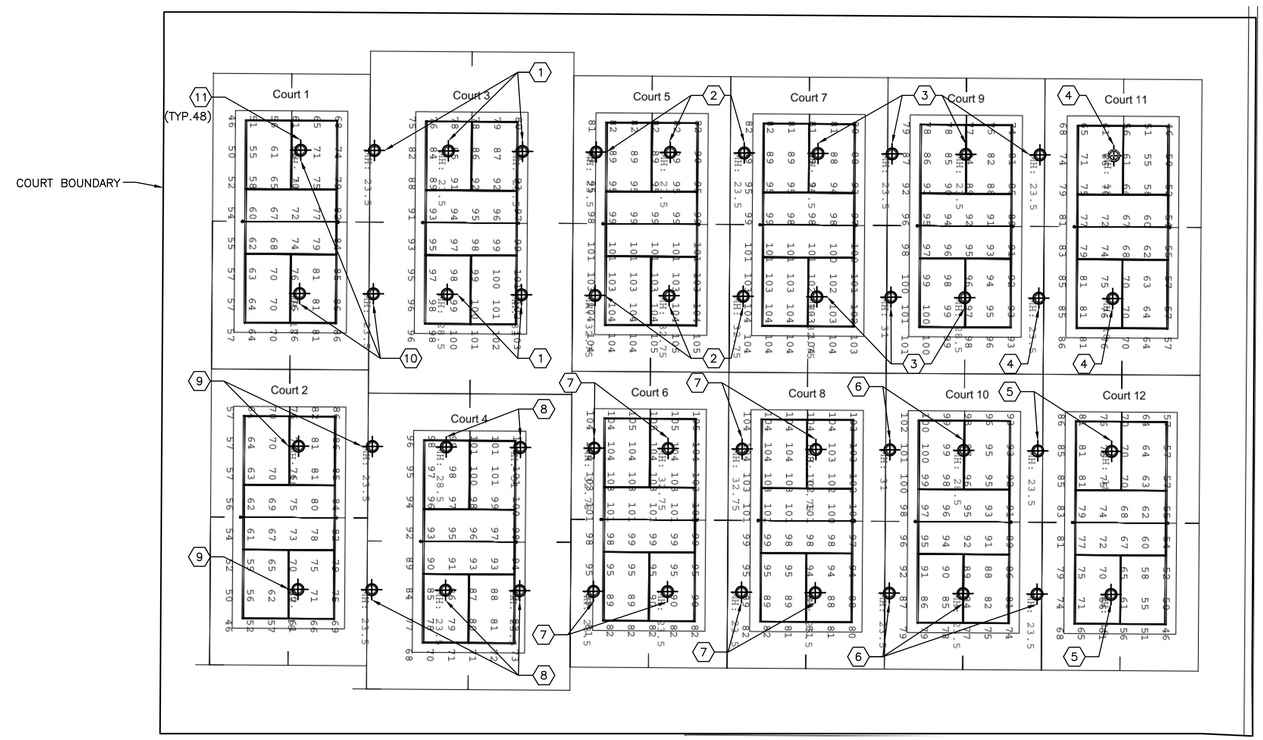
2026.02.10 16:08:30-08'00'

OVERALL SITE PLAN - PHOTOMETRIC

E1.02



1 E1.03 OVERALL SITE PLAN - DOME INTERIOR LIGHTING
SCALE: 1/16"=1'-0"

0 8 16 32 48

SCALE IN FEET
1/16" = 1'-0"

Calculation Summary			
Label	Units	Avg	Max/Min
Court 1	Fc	67.85	1.87
Court 10	Fc	91.31	1.38
Court 11	Fc	67.75	1.87
Court 12	Fc	67.77	1.87
Court 2	Fc	68.21	1.87
Court 3	Fc	92.81	1.37
Court 4	Fc	89.90	1.50
Court 5	Fc	97.17	1.30
Court 6	Fc	97.21	1.30
Court 7	Fc	96.56	1.30
Court 8	Fc	96.63	1.30
Court 9	Fc	91.23	1.36

GENERAL NOTES

A. SEE SHEET E0.01 FOR LEGEND & ABBREVIATIONS.

B. DISCLAIMER: PER MANUFACTURER REQUIREMENT, THIS LIGHTING LAYOUT WAS PROVIDED BY THE MANUFACTURER DESIGN TEAM, NOT PREPARED BY ENGINEER OF RECORD.

C. SEE SHEET E0.04 FOR LUMINAIRE SCHEDULE AND PHOTOMETRIC SCHEDULE.

KEYED NOTES

1. LIGHT FIXTURE TO BE FED FROM JUNCTION BOX 'JB-1' WHILE AIR STRUCTURE IS IN USE. 'JB-1' FEEDS A TOTAL OF 5 LIGHT FIXTURES.
2. LIGHT FIXTURE TO BE FED FROM JUNCTION BOX 'JB-2' WHILE AIR STRUCTURE IS IN USE. 'JB-2' FEEDS A TOTAL OF 6 LIGHT FIXTURES.
3. LIGHT FIXTURE TO BE FED FROM JUNCTION BOX 'JB-3' WHILE AIR STRUCTURE IS IN USE. 'JB-3' FEEDS A TOTAL OF 7 LIGHT FIXTURES.
4. LIGHT FIXTURE TO BE FED FROM JUNCTION BOX 'JB-4' WHILE AIR STRUCTURE IS IN USE. 'JB-4' FEEDS A TOTAL OF 3 LIGHT FIXTURES.
5. LIGHT FIXTURE TO BE FED FROM JUNCTION BOX 'JB-5' WHILE AIR STRUCTURE IS IN USE. 'JB-5' FEEDS A TOTAL OF 3 LIGHT FIXTURES.
6. LIGHT FIXTURE TO BE FED FROM JUNCTION BOX 'JB-6' WHILE AIR STRUCTURE IS IN USE. 'JB-6' FEEDS A TOTAL OF 5 LIGHT FIXTURES.
7. LIGHT FIXTURE TO BE FED FROM JUNCTION BOX 'JB-7' WHILE AIR STRUCTURE IS IN USE. 'JB-7' FEEDS A TOTAL OF 8 LIGHT FIXTURES.
8. LIGHT FIXTURE TO BE FED FROM JUNCTION BOX 'JB-8' WHILE AIR STRUCTURE IS IN USE. 'JB-8' FEEDS A TOTAL OF 5 LIGHT FIXTURES.
9. LIGHT FIXTURE TO BE FED FROM JUNCTION BOX 'JB-9' WHILE AIR STRUCTURE IS IN USE. 'JB-9' FEEDS A TOTAL OF 3 LIGHT FIXTURES.
10. LIGHT FIXTURE TO BE FED FROM JUNCTION BOX 'JB-10' WHILE AIR STRUCTURE IS IN USE. 'JB-10' FEEDS A TOTAL OF 3 LIGHT FIXTURES.
11. BRITE COURT INDIRECT SUSPENDED LIGHT FIXTURE.

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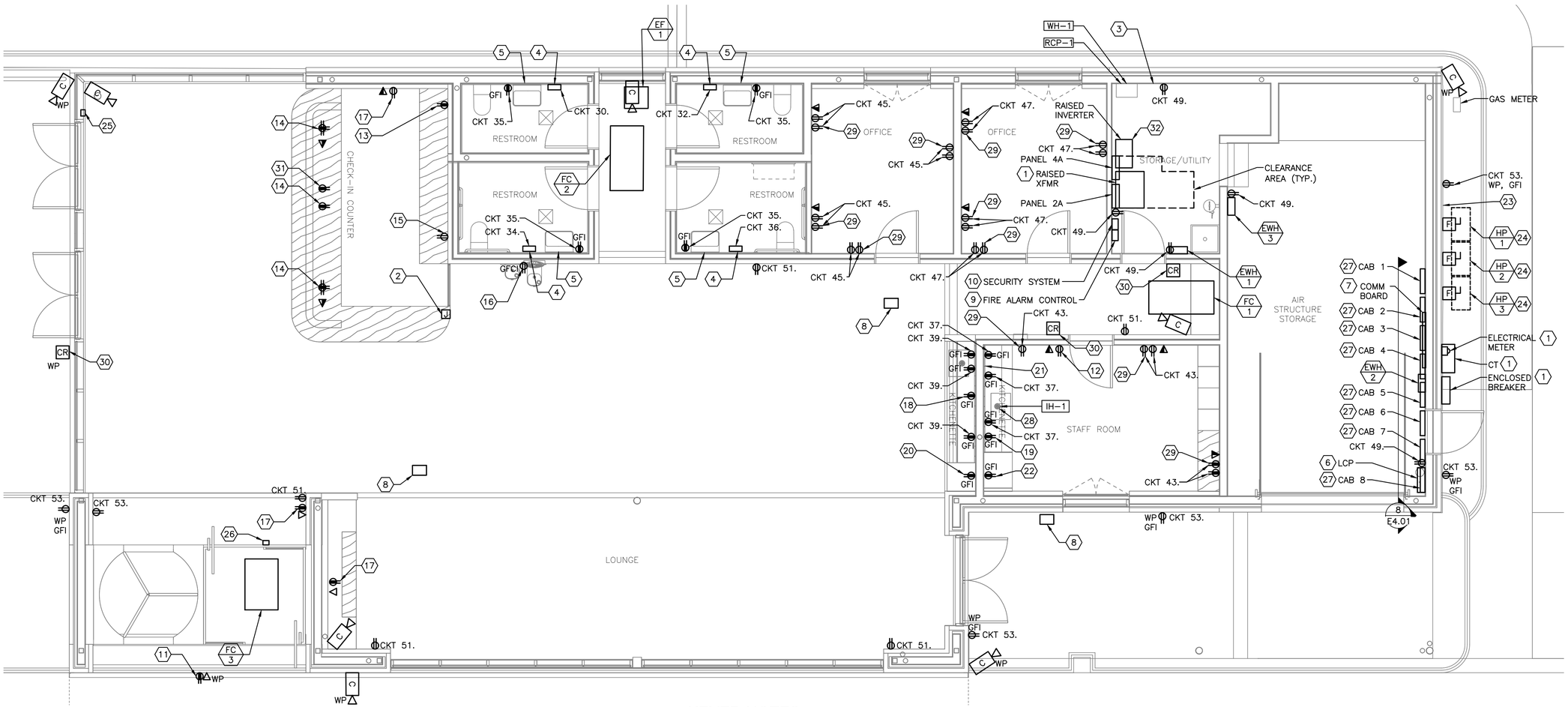
OREGON
NOV. 12, 2015
JONATHAN PATRICK KELLY
RENEWAL DATE: 12/31/2026
2026.02.10 18:08:49-08'00'

AIR STRUCTURE INTERIOR LIGHTING

E1.03



1 FLOOR PLAN - POWER
E2.01 SCALE: 1/4"=1'-0"

0 2 4 8 12

SCALE IN FEET
1/4" = 1'-0"

GENERAL NOTES

A. SEE SHEET E0.01 FOR LEGEND & ABBREVIATIONS.

B. SEE SHEET E0.02 FOR ONE-LINE DIAGRAM AND FEEDER DETAILS.

C. SECURITY CAMERAS TO BE PROVIDED AND INSTALLED BY OWNER. COORDINATE LOCATION OF CAMERAS WITH OWNER. PROVIDE AND INSTALL (2) 12 AWG AND (1) 12 AWG GND IN 3/4" EMT CONDUIT FOR POWER TO EACH CAMERA, ROUTE FROM EACH CAMERA TO ELECTRICAL POWER PANEL. FEED SECURITY CAMERAS WITH PANEL 2A CKT 42. SECURITY SYSTEM CONTROL PANEL, PROVIDED BY OWNER, TO BE LOCATED UNDER FRONT DESK. COORDINATE EXACT LOCATION OF SYSTEM PANEL WITH OWNER. PROVIDE AND INSTALL CAT6 CABLE IN 1" EMT CONDUIT FOR COMMUNICATION WIRING TO CAMERA, ROUTE FROM EACH CAMERA TO SECURITY SYSTEM CONTROL PANEL. NOTE: ONE OF THE MONITORS AT THE FRONT DESK WILL DISPLAY CAMERA FEEDS, THIS MONITOR WILL BE POWERED BY THE SAME CIRCUIT FEEDING THE SECURITY CAMERS. PROVIDE AND INSTALL (2) 12 AWG AND (1) 12 AWG GND IN 3/4" EMT CONDUIT FOR POWER TO SECURITY DISPLAY MONITOR.

D. TOILETS USE BATTERY-POWERED ELECTROINC FLUSH SENSOR. NO ELECTRICAL SCOPE.

E. ALL ABOVE-COUNTER RECEPTACLES AT EACH KITCHENETTE TO BE GFCI.

F. ALL CIRCUITS NOTED ON THIS FLOOR PLAN REFER TO PANEL 2A, UNLESS OTHERWISE NOTED.

G. EVERY UTILIZED RACEWAY SHALL INCLUDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR.

H. USE PVC COATED RGS ELBOWS ON UNDERGROUND BENDS, UNLESS OTHERWISE NOTED.

I. ALL SPLICES IN UNDERGROUND BOXES SHALL BE INSULATED AND WATERPROOFED, USING SCOTCHCAST EPOXY SPLICING COMPOUNDS SUITED FOR THE PURPOSE.

J. USE SCHEDULE 40 PVC CONDUIT WHEN ROUTING UNDERGROUND AND PVC-RGS WHEN ROUTING OUTSIDE ABOVE GROUND. AVOID EXPOSING CONDUIT UNLESS NECESSARY. PAINT EXPOSED ABOVE-GROUND CONDUIT TO MATCH WALL BEING MOUNTED TO, COORDINATE COLOR WITH ARCHITECT.

K. USE EMT CONDUIT WHEN ROUTING ABOVE GRADE WITHIN BUILDING. USE 3/4" CONDUIT, UNLESS OTHERWISE NOTED.

L. ALL NEW ELECTRICAL ROUTING TO BE DONE WITH (2) 12 AWG AND (1) 12 AWG GND UNLESS OTHERWISE NOTED.

M. COORDINATE COLOR OF WIRING DEVICES, SUCH AS RECEPTACLES AND WALL PLATES, WITH OWNER AND ARCHITECT.

N. THERE ARE A TOTAL OF 3 CARD READER LOCATIONS: NORTHERN SET OF ENTRY DOORS, STAFF ROOM, AND UTILITY ROOM. CHECK-IN DESK TO HAVE PROVISIONS FOR FUTURE CARD READER.

KEYED NOTES

1. SEE OVERALL SITE PLAN (E1.01) AND ONE-LINE DIAGRAM FOR CONNECTION DETAILS.
2. PROVIDE AND INSTALL 3/4" CONDUIT WITH PULL STRING FOR FUTURE CARD READER WIRING. ROUTE FROM CENTER OF UTILITY ROOM NORTH WALL (LOCATION OF CARD READER SYSTEM) TO CASEWORK SOUTH OF SWINGING GATE AT CHECK-IN DESK. INSTALL JUNCTION BOX RECESSED IN CASEWORK SOUTH OF SWINGING GATE AT CHECK-IN DESK, COORDINATE LOCATION WITH ARCHITECT AND OWNER.
3. SPACE ON THIS WALL TO BE RESERVED FOR SOUND SYSTEM AND CARD READER BOARD. NO ELECTRICAL SCOPE.
4. HAND DRYER. SEE ARCHITECTURAL PLANS FOR LOCATION.
5. NO-TOUCH FAUCET. COORDINATE PRODUCT SELECTION WITH ARCHITECT. FEED WITH PANEL 2A CIRCUIT 33.
6. LIGHTING CONTROL PANEL (LCP).
7. TELECOM BOARD PROVIDED BY OTHERS. COORDINATE LOCATION WITH OWNER AND ARCHITECT. CONNECT TO BUILDING GROUND BAR. PROVIDE 120V DUPLEX RECEPTACLE, FEED WITH PANEL 2A CIRCUIT 44.
8. WIRELESS ACCESS POINT PROVIDED BY OTHERS. COORDINATE LOCATION WITH OWNER AND ARCHITECT. PROVIDE RECESSED, CEILING-MOUNTED 120V DUPLEX RECEPTACLE, FEED WITH PANEL 2A CIRCUIT 46.
9. PROVIDE AND INSTALL FIRE ALARM CONTROL PANEL. COORDINATE FINAL LOCATION WITH FIRE MARSHAL. FEED WITH PANEL 2A CIRCUIT 38.
10. SECURITY SYSTEM BY OTHERS. COORDINATE LOCATION WITH OWNER AND ARCHITECT. FEED WITH PANEL 2A CIRCUIT 36.
11. PROVIDE AND INSTALL RECEPTACLE AND ETHERNET JACK FOR FUTURE PORTABLE SECURITY CAMERA. COORDINATE LOCATION WITH OWNER AND ARCHITECT. FEED RECEPTACLE WITH PANEL 2A CKT 42. PROVIDE AND INSTALL CAT6 CABLE IN 1" EMT CONDUIT, ROUTE FROM CAMERA DATA JACK TO SECURITY SYSTEM CONTROL PANEL UNDER FRONT DESK.
12. STAFF ROOM TIMESTAMP TABLET (IPAD), MOUNTED ON WALL. COORDINATE RECEPTACLE AND DATA OUTLET LOCATION AND MOUNTING HEIGHT WITH ARCHITECT. FEED RECEPTACLE WITH PANEL 2A CIRCUIT 46.
13. PRINTER. SEE ARCHITECTURAL PLANS FOR LOCATION. FEED RECEPTACLE WITH PANEL 2A CIRCUIT 15.
14. DESKTOP AND MONITORS. COORDINATE RECEPTACLE AND DATA OUTLET LOCATION WITH ARCHITECT. SEE ARCHITECTURAL PLANS FOR LOCATION. FEED RECEPTACLE WITH PANEL 2A CIRCUIT 31.
15. TWO SMALL BEVERAGE FRIDGES. COORDINATE RECEPTACLE LOCATION WITH ARCHITECT. FEED RECEPTACLE WITH PANEL 2A CIRCUIT 23.
16. DRINKING WATER STATION (COMBO FOUNTAIN AND BOTTLE FILLER). COORDINATE RECEPTACLE LOCATION WITH ARCHITECT. FEED RECEPTACLE WITH PANEL 2A CIRCUIT 17.
17. TELEVISION. COORDINATE RECEPTACLE AND DATA OUTLET LOCATION AND MOUNTING HEIGHT WITH ARCHITECT. FEED RECEPTACLE WITH PANEL 2A CIRCUIT 13.
18. ICE MACHINE. SEE ARCHITECTURAL PLANS FOR ELEVATION AND LOCATION. APPLIANCE IS TO BE BUILT-IN. PROVIDE AND INSTALL CONVENIENCE RECEPTACLE ABOVE COUNTER. FEED WITH PANEL 2A CIRCUIT 25.
19. MICROWAVE. SEE ARCHITECTURAL PLANS FOR ELEVATION AND LOCATION. APPLIANCE IS TO BE BUILT-IN. PROVIDE AND INSTALL CONVENIENCE RECEPTACLE ABOVE COUNTER. FEED RECEPTACLE WITH PANEL 2A CIRCUIT 19.
20. FUTURE BUILT-IN MICROWAVE. PROVIDE AND INSTALL RECEPTACLE, COORDINATE LOCATION WITH OWNER. FEED RECEPTACLE WITH PANEL 2A CIRCUIT 27.
21. SMALL DISHWASHER. SEE ARCHITECTURAL PLANS FOR ELEVATION AND LOCATION. APPLIANCE IS TO BE BUILT-IN. PROVIDE AND INSTALL RECEPTACLE UNDER COUNTER. FEED RECEPTACLE WITH PANEL 2A CIRCUIT 29.
22. REFRIGERATOR. MOUNT RECEPTACLE 54" AFF. FEED WITH PANEL 2A CIRCUIT 21.
23. SOLAR POWER INFRASTRUCTURE TO BE MOUNTED OUTSIDE ON EAST WALL. SOLAR POWER SYSTEM TO BE INSTALLED BY SOLAR CONTRACTOR IN FUTURE, NOT WITH THIS INITIAL CONSTRUCTION.
24. MECHANICAL EQUIPMENT PROVIDED BY MECHANICAL CONTRACTOR.
25. AUTOMATED DOOR OPENER. CONTRACTOR TO PROVIDE AUTOMATED DOOR OPENER AND ASSOCIATED EQUIPMENT (SUCH AS TIMER) FOR DOOR OPENER SYSTEM. COORDINATE MOUNTING LOCATION OF JUNCTION BOX AND DOOR OPENER SYSTEM WITH PANEL 2A CKT 40.
26. AUTOMATED DOOR OPERATOR. AIR STRUCTURE SUPPLIER TO PROVIDE AUTOMATED DOOR OPERATOR AND ASSOCIATED EQUIPMENT AND CONTROLS FOR DOOR OPERATOR SYSTEM. COORDINATE MOUNTING LOCATION OF JUNCTION BOX AND DOOR OPERATOR SYSTEM EQUIPMENT WITH AIR STRUCTURE SUPPLIER. FEED DOOR OPERATOR SYSTEM WITH PANEL 2A CKT 40.
27. EACH DRIVER CABINET CAN HOLD (12) 24V LED LIGHT FIXTURE DRIVERS. MOUNT AS CLOSE TO THE CEILING AS PRACTICAL.
28. GARBAGE DISPOSAL. PROVIDE AND INSTALL RECEPTACLE UNDER COUNTER. FEED RECEPTACLE WITH PANEL 2A CIRCUIT 48.
29. AUTOMATIC SWITCHED RECEPTACLE. CONTRACTOR TO ADD LABEL TO RECEPTACLE COVER READING "SWITCHED OUTLET".
30. SECURITY CARD READER, SEE ARCHITECTURAL PLANS FOR LOCATION. PROVIDE AND INSTALL (4) 14 AWG CONTROL WIRES AND 12 AWG GND IN 1" CONDUIT. ROUTE FROM CARD READER TO CARD READER BOARD IN UTILITY ROOM.
31. PROVIDE AND INSTALL OUTLET FOR FRONT DESK PHONE. COORDINATE LOCATION WITH OWNER. CONNECT PHONE POWER TO INVERTER FOR BACKUP POWER.
32. SEE SHEET E0.03 FOR INVERTER SIZING DETAILS.

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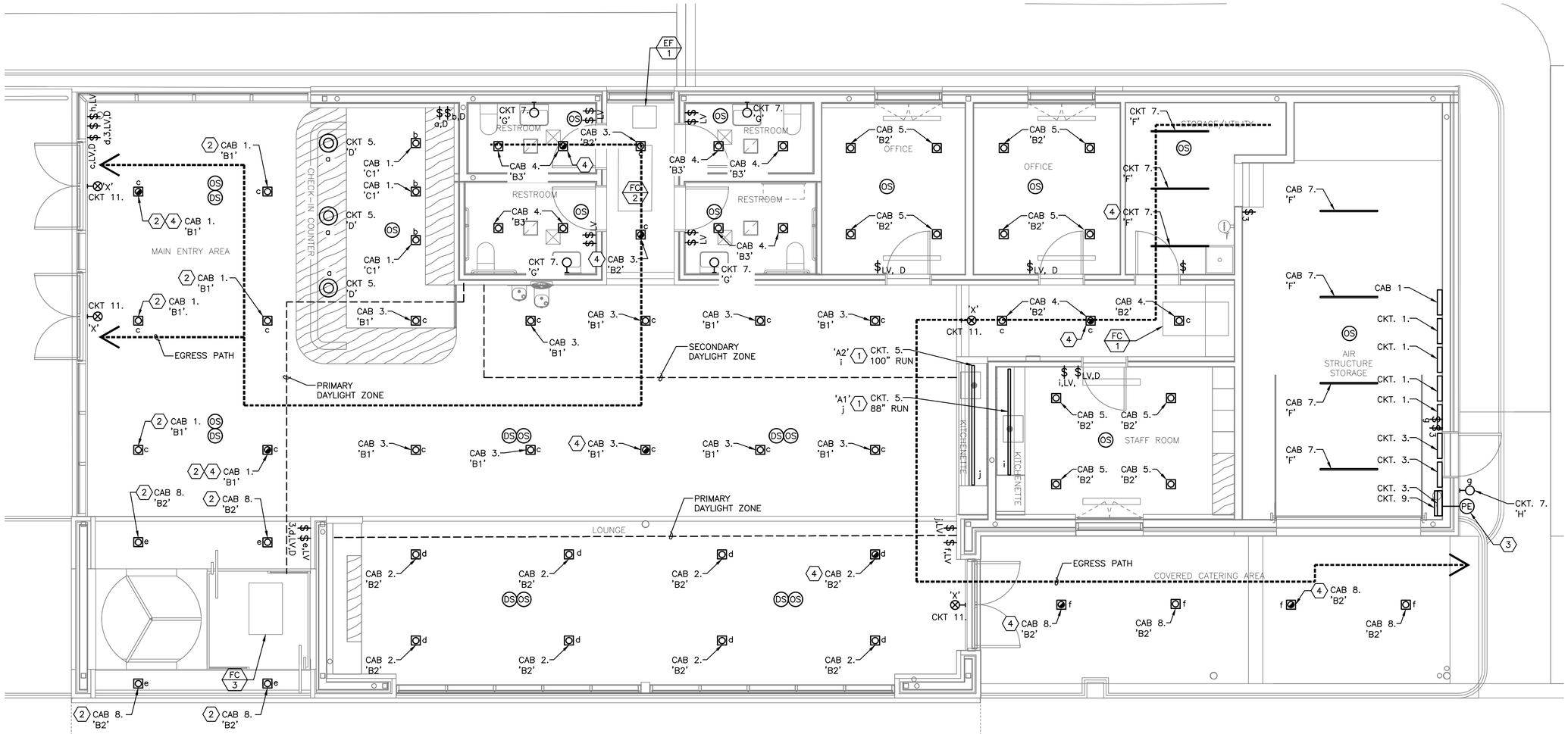
88445PE
OREGON
NOV 12, 2015
JONATHAN PATRICK KILLY
RENEWAL DATE: 12/31/2026
2026.02.10 18:09:07-08'00'

FLOOR PLAN - POWER

E2.01



GENERAL NOTES

A. SEE SHEET E0.01 FOR LEGEND & ABBREVIATIONS.

B. FOR ANY ROUTING TO A 24VDC LIGHT FIXTURE (TYPES B AND C), UP–SIZE ALL WIRING FOR THAT FIXTURE FROM 12 AWG TO 10 AWG, IF THE RUN EXCEEDS 100 FEET, TO REDUCE VOLTAGE DROP. FOR ANY ROUTING TO A 24VDC LIGHT FIXTURE, UP–SIZE ALL WIRING FOR THAT FIXTURE FROM 12 AWG TO 8 AWG, IF THE RUN EXCEEDS 200 FEET, TO REDUCE VOLTAGE DROP.

C. ALL CIRCUITS NOTED ON THIS FLOOR PLAN REFER TO PANEL 2A, UNLESS OTHERWISE NOTED.

D. PROVIDE FURNISHED AS–BUILT DRAWINGS FOR ELECTRIC POWER SYSTEM WITHIN 30 DAYS OF SYSTEM ACCEPTANCE.

E. PROVIDE FURNISHED O&M INSTRUCTIONS FOR SYSTEMS AND EQUIPMENT TO THE BUILDING OWNER OR DESIGNATED REPRESENTATIVE.

F. EVERY UTILIZED RACEWAY SHALL INCLUDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR.

G. USE PVC COATED RGS ELBOWS ON UNDERGROUND BENDS, UNLESS OTHERWISE NOTED.

H. ALL SPLICES IN UNDERGROUND BOXES SHALL BE INSULATED AND WATERPROOFED, USING SCOTCHCAST EPOXY SPLICING COMPOUNDS SUITED FOR THE PURPOSE.

I. USE SCHEDULE 40 PVC CONDUIT WHEN ROUTING UNDERGROUND AND PVC–RGS WHEN ROUTING OUTSIDE ABOVE GROUND. AVOID EXPOSING CONDUIT UNLESS NECESSARY. PAINT EXPOSED ABOVE–GROUND CONDUIT TO MATCH WALL BEING MOUNTED TO, COORDINATE COLOR WITH ARCHITECT.

J. USE EMT CONDUIT WHEN ROUTING ABOVE GRADE WITHIN BUILDING. USE 3/4" CONDUIT, UNLESS OTHERWISE NOTED.

K. ALL NEW ELECTRICAL ROUTING TO BE DONE WITH (2) 12 AWG AND (1) 12 AWG GND UNLESS OTHERWISE NOTED.

L. DAYLIGHT SENSORS TO CONTROL LIGHTS WITHIN INDICATED DAYLIGHT ZONE.

M. COORDINATE COLOR OF WIRING DEVICES, SUCH AS WALL SWITCHES AND WALL PLATES, WITH OWNER AND ARCHITECT.

1 E2.02 FLOOR PLAN - LIGHTING

SCALE: 1/4"=1'–0"

0 2 4 8 12

SCALE IN FEET
1/4" = 1'–0"

KEYED NOTES

1. 24VDC RECESSED UNDER CABINET LUMINAIRE FIXTURE. ORDER AS CONTINUOUS RUN, SIZED TO LENGTH SHOWN. VERIFY WITH ARCHITECT PRIOR TO PURCHASE.
2. ROUTE USING (2) 10 AWG AND 10 AWG GND TO REDUCE VOLTAGE DROP.
3. PROVIDE PHOTO ELECTRIC SENSOR (PE). INSTALL SO "EYE" FACES NORTH 30 DEGREES ABOVE HORIZON. SENSOR NEVER TO BE IN DIRECT LIGHT.
4. CONNECT LIGHT FIXTURE TO INVERTER. INVERTER TO PROVIDE BACKUP POWER FOR EGRESS PATH LIGHTING. TYPE 'B' LIGHT FIXTURES TO HAVE INVERTER WIRING RUN TO FIXTURE DRIVER IN REMOTE CABINET INSTEAD OF TO FIXTURE ITSELF.

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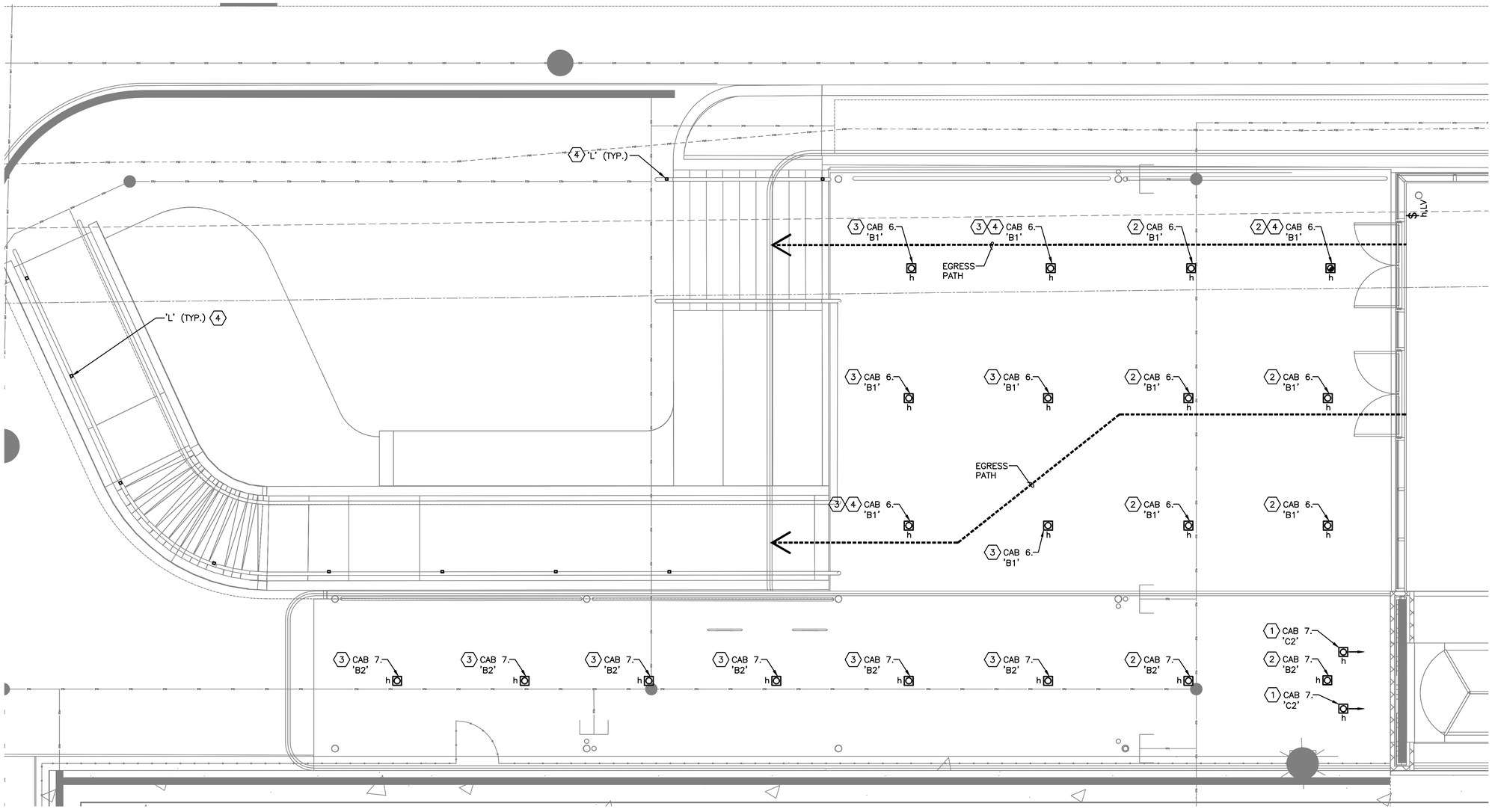
FLOOR PLAN - LIGHTING

E2.02



1 E2.03 EXTERIOR PLAZA - LIGHTING
SCALE: 1/4"=1'-0"

0 2 4 8 12

SCALE IN FEET
1/4" = 1'-0"

GENERAL NOTES

A. SEE SHEET E0.01 FOR LEGEND & ABBREVIATIONS.

B. ALL STAIR AND RAMP HANDRAILS WITHIN THE ENTRY PLAZA WILL ILLUMINATED BY INTEGRATED POD LIGHTING. COORDINATE LIGHT PLACEMENT WITH LANDSCAPING DESIGN.

C. FOR ANY ROUTING TO A 24VDC LIGHT FIXTURE (TYPES B AND C), UP-SIZE ALL WIRING FOR THAT FIXTURE FROM 12 AWG TO 10 AWG, IF THE RUN EXCEEDS 100 FEET, TO REDUCE VOLTAGE DROP. FOR ANY ROUTING TO A 24VDC LIGHT FIXTURE, UP-SIZE ALL WIRING FOR THAT FIXTURE FROM 12 AWG TO 8 AWG, IF THE RUN EXCEEDS 200 FEET, TO REDUCE VOLTAGE DROP.

D. ALL CIRCUITS NOTED ON THIS FLOOR PLAN REFER TO PANEL 2A, UNLESS OTHERWISE NOTED.

E. PROVIDE FURNISHED AS-BUILT DRAWINGS FOR ELECTRIC POWER SYSTEM WITHIN 30 DAYS OF SYSTEM ACCEPTANCE.

F. PROVIDE FURNISHED O&M INSTRUCTIONS FOR SYSTEMS AND EQUIPMENT TO THE BUILDING OWNER OR DESIGNATED REPRESENTATIVE.

G. EVERY UTILIZED RACEWAY SHALL INCLUDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR.

H. USE PVC COATED RGS ELBOWS ON UNDERGROUND BENDS, UNLESS OTHERWISE NOTED.

I. ALL SPLICES IN UNDERGROUND BOXES SHALL BE INSULATED AND WATERPROOFED, USING SCOTCHCAST EPOXY SPLICING COMPOUNDS SUITED FOR THE PURPOSE.

J. USE SCHEDULE 40 PVC CONDUIT WHEN ROUTING UNDERGROUND AND PVC-RGS WHEN ROUTING OUTSIDE ABOVE GROUND. AVOID EXPOSING CONDUIT UNLESS NECESSARY. PAINT EXPOSED ABOVE-GROUND CONDUIT TO MATCH BUILDING/STRUCTURE BEING MOUNTED TO, COORDINATE COLOR WITH ARCHITECT.

K. USE EMT CONDUIT WHEN ROUTING ABOVE GRADE WITHIN BUILDING. USE 3/4" CONDUIT, UNLESS OTHERWISE NOTED.

L. ALL NEW ELECTRICAL ROUTING TO BE DONE WITH (2) 12 AWG AND (1) 12 AWG GND UNLESS OTHERWISE NOTED.

KEYED NOTES

1. WALL WASH LIGHT FIXTURE. DIRECT LIGHT BEAM TO ILLUMINATE EAST WALL.
2. ROUTE USING (2) 10 AWG AND 10 AWG TO REDUCE VOLTAGE DROP.
3. ROUTE USING (2) 8 AWG AND 8 AWG GND TO REDUCE VOLTAGE DROP.
4. CONNECT LIGHT FIXTURE TO INVERTER. INVERTER TO PROVIDE BACKUP POWER FOR EGRESS PATH LIGHTING. TYPE 'B' LIGHT FIXTURES TO HAVE INVERTER WIRING RUN TO FIXTURE DRIVER IN REMOTE CABINET INSTEAD OF TO FIXTURE ITSELF. ALL TYPE 'L' LIGHT FIXTURES TO BE CONNECTED TO INVERTER.

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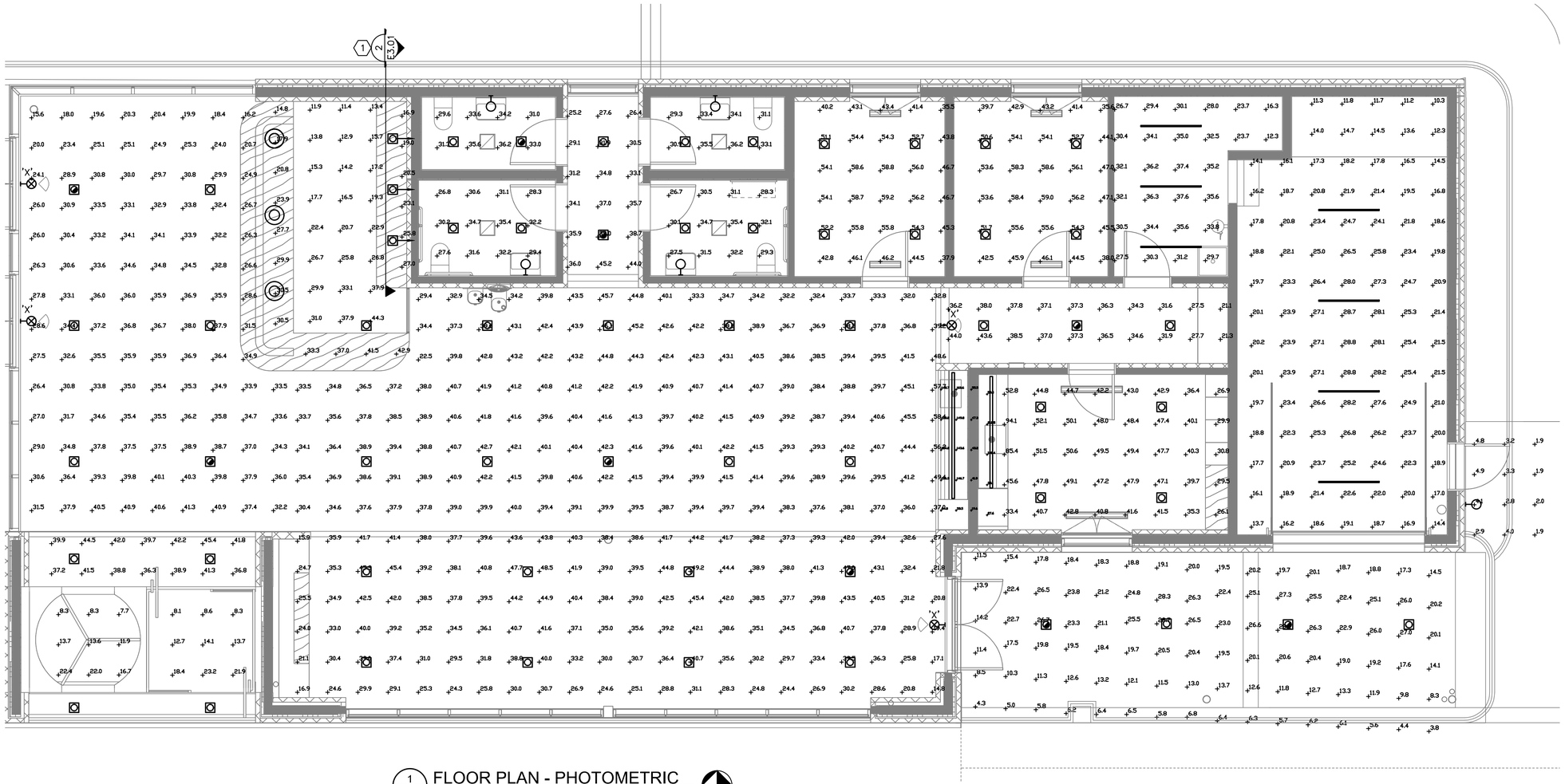
EXTERIOR PLAZA - LIGHTING

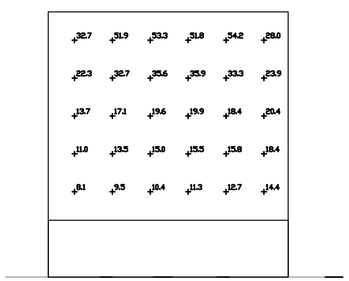
E2.03



1 E3.01 FLOOR PLAN - PHOTOMETRIC
SCALE: 1/4"=1'-0"

0 2 4 8 12

SCALE IN FEET
1/4" = 1'-0"



2 E3.01 DISPLAY WALL PHOTOMETRICS
SCALE: 1/4"=1'-0"

0 2 4 8 12

SCALE IN FEET
1/4" = 1'-0"

GENERAL NOTES

A. SEE SHEET E0.01 FOR LEGEND & ABBREVIATIONS.

B. INNER LUMINAIRE ISO CURVE INDICATES 1 FOOT CANDLE (FC). OUTER LUMINAIRE ISO CURVE INDICATES 0.5 FC.

C. FOOT CANDLES ISO CURVE ARE SHOWN AS A SINGLE FIXTURE CONTRIBUTIONS WITH SET VALUES. THE ISO CURVE VALUES MAY NOT MATCH THE CALCULATION PLANE POINT VALUES, SINCE THE CALCULATION PLANE CAN BE A CONTRIBUTION FROM MORE THAN ONE LUMINAIRE.

D. SEE SHEET E0.04 FOR LUMINAIRE SCHEDULE AND PHOTOMETRIC SCHEDULES.

KEYED NOTES

1 DISPLAY WALL. SEE DETAIL 2/E3.1 FOR PHOTOMETRICS.

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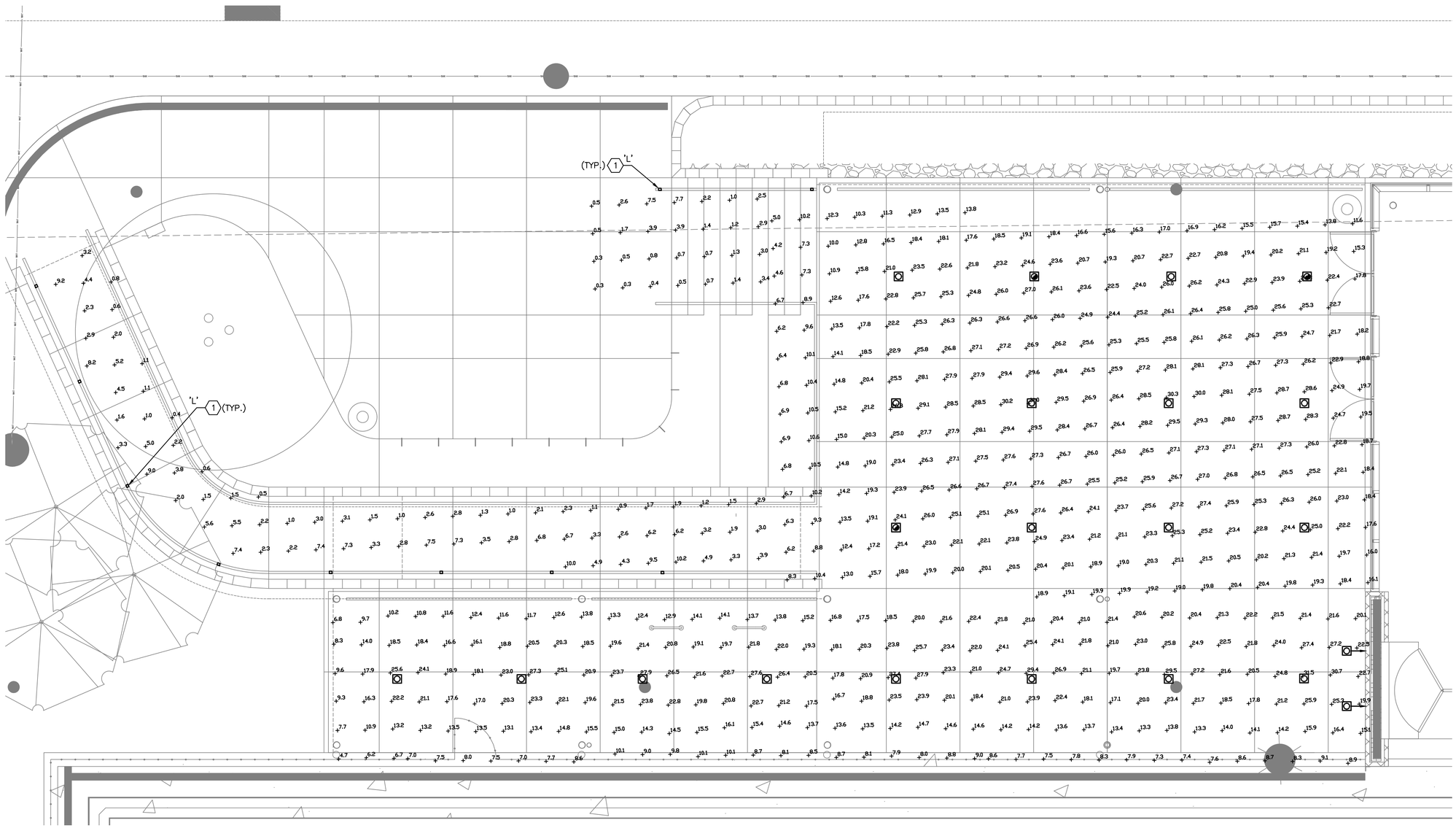
FLOOR PLAN - PHOTOMETRIC

E3.01



1 E3.02 PARTIAL SITE PLAN - PHOTOMETRIC
SCALE: 1/4"=1'-0"

0 2 4 8 12

SCALE IN FEET
1/4" = 1'-0"

GENERAL NOTES

A. SEE SHEET E0.01 FOR LEGEND & ABBREVIATIONS.

B. INNER LUMINAIRE ISO CURVE INDICATES 1 FOOT CANDLE (FC). OUTER LUMINAIRE ISO CURVE INDICATES 0.5 FC.

C. FOOT CANDLES ISO CURVE ARE SHOWN AS A SINGLE FIXTURE CONTRIBUTIONS WITH SET VALUES. THE ISO CURVE VALUES MAY NOT MATCH THE CALCULATION PLANE POINT VALUES, SINCE THE CALCULATION PLANE CAN BE A CONTRIBUTION FROM MORE THAN ONE LUMINAIRE.

D. SEE SHEET E0.04 FOR LUMINAIRE SCHEDULE AND PHOTOMETRIC SCHEDULES.

KEYED NOTES

1 TYPE 'L' LIGHT FIXTURES ARE POD FIXTURES.

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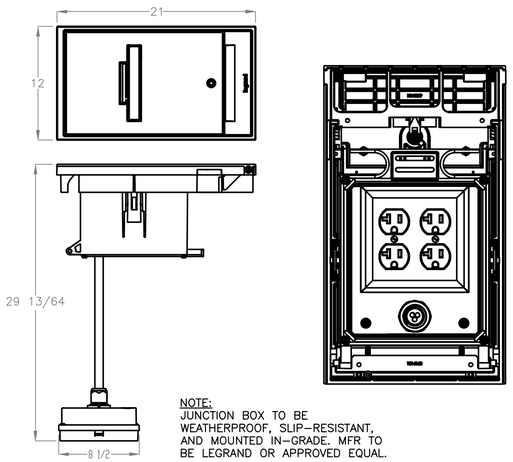
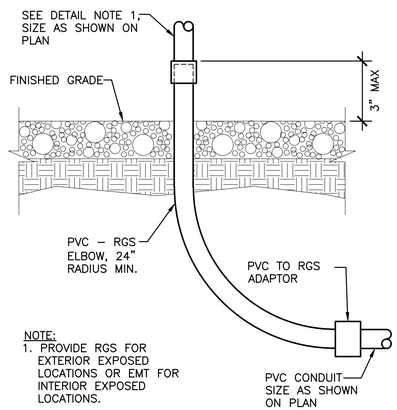
PARTIAL SITE PLAN - PHOTOMETRIC

E3.02



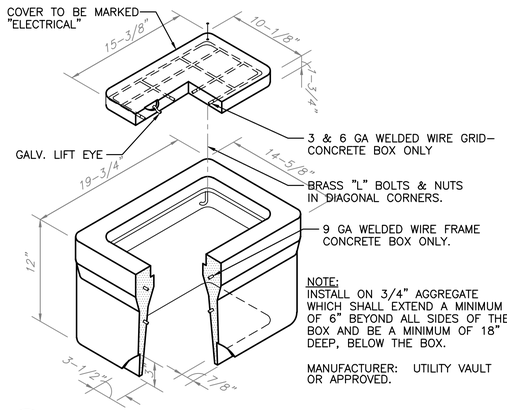
NOTE:
JUNCTION BOX TO BE WEATHERPROOF, SLIP–RESISTANT, AND MOUNTED IN–GRADE. MFR TO BE LEGRAND OR APPROVED EQUAL.

1 E4.01 IN-GROUND RECEPTACLE DETAIL
NOT TO SCALE

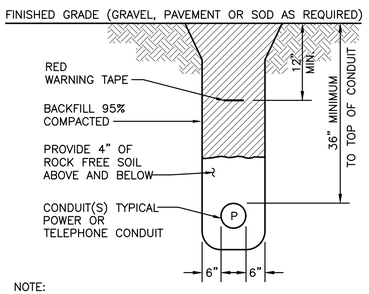


NOTE:
1. PROVIDE RGS FOR EXTERIOR EXPOSED LOCATIONS OR EMT FOR INTERIOR EXPOSED LOCATIONS.

2 E4.01 CONDUIT GRADE TRANSITION DETAIL
NOT TO SCALE

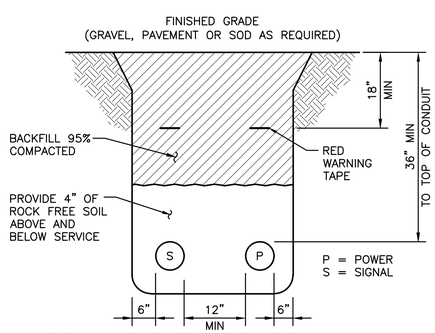


3 E4.01 FLUSH HANDHOLE/SPLICE BOX DETAIL
NOT TO SCALE

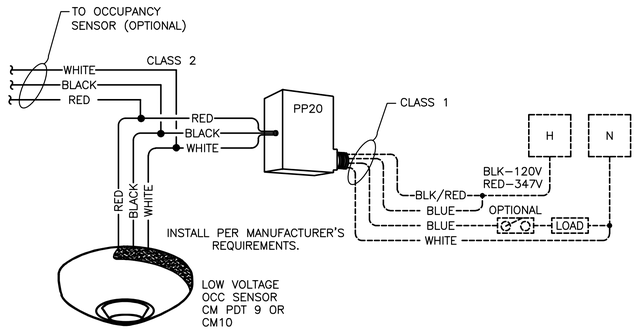


NOTE:
A. MAINTAIN 12" VERTICAL AND 24" HORIZONTAL CLEARANCE BETWEEN GAS AND OTHER UTILITIES.

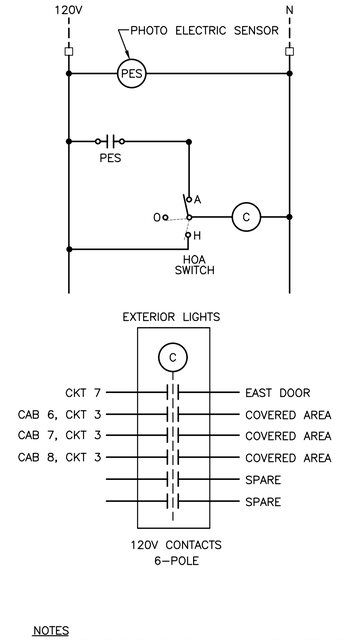
4 E4.01 POWER CONDUIT TRENCH DETAIL
NOT TO SCALE



5 E4.01 CONDUIT TRENCH DETAIL
NOT TO SCALE

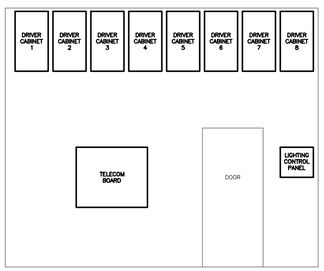


6 E4.01 OCCUPANCY SENSOR WIRING DIAGRAM
NOT TO SCALE



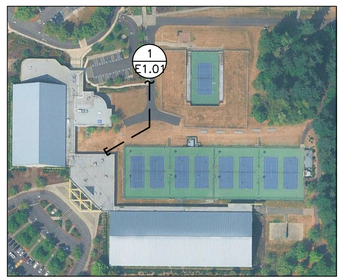
NOTES
1. CONTRACTOR TO PROVIDE AND MOUNT PHOTO CELL ON HIGHEST POINT OF NORTH EDGE OF ROOF ON ASSOCIATED BUILDING. AIM PHOTO CELL NORTH, 30 DEGREES ABOVE HORIZON. SENSOR NEVER TO BE IN DIRECT LIGHT.
2. CONTRACTOR TO PROVIDE CONTROLLER TIMER FROM MFR. INTERMATIC.

7 E4.01 LIGHTING CONTROL DIAGRAM
NOT TO SCALE



8 E4.01 STORAGE ROOM EAST WALL ELEVATION
SCALE: 1/4"=1'–0"

0 2 4 8 12
SCALE IN FEET
1/4" = 1'–0"



9 E4.01 ADMIN BLDG COMM ROUTING
NO SCALE

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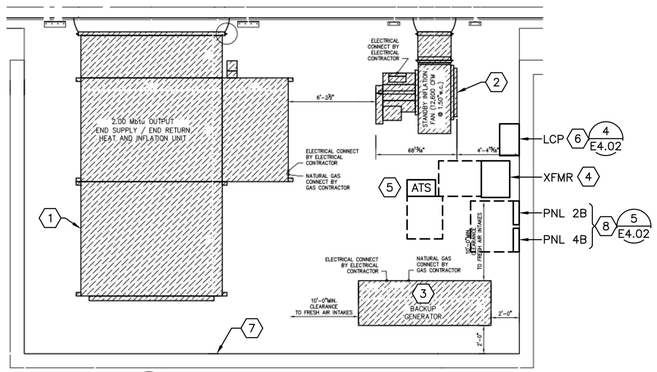
ELECTRICAL DETAILS

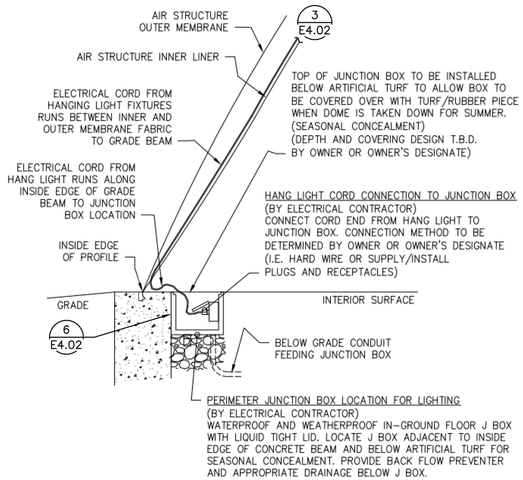
E4.01



9 / 1 E4.02 MECHANICAL PAD
SCALE: 3/16"=1'-0"

KEYED NOTES

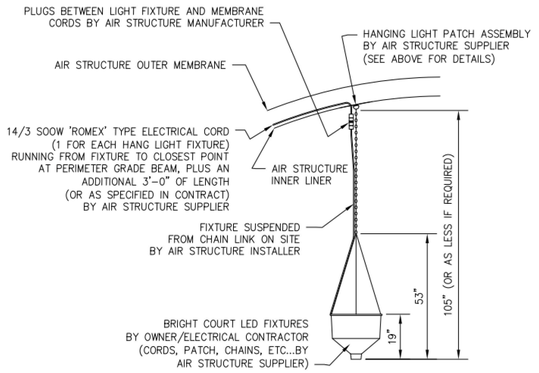
1. HEAT AND INFLATION UNIT. SINGLE PHASE, 120V, 15A GFI RECEPTACLE NECESSARY FOR SERVICE OUTLET AND UNIT LIGHTING. MECHANICAL EQUIPMENT PROVIDED AND INSTALLED BY DOME STRUCTURE SUPPLIER. ELECTRICAL CONNECTION TO BE PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE WITH DOME STRUCTURE SUPPLIER.
2. STANDBY INFLATION FAN, 7.5 HP MOTOR. MECHANICAL EQUIPMENT PROVIDED AND INSTALLED BY DOME STRUCTURE SUPPLIER. ELECTRICAL CONNECTION TO BE PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE WITH DOME STRUCTURE SUPPLIER.
3. GAS FUELED GENERATOR PROVIDED BY DOME STRUCTURE SUPPLIER. VERIFY LOCATION. GENERATOR WILL FEED PANELS SUPPLYING POWER TO AIR STRUCTURE EQUIPMENT ONLY. ELECTRICAL CONNECTIONS TO GENERATOR TO BE PROVIDED BY ELECTRICAL CONTRACTOR. COORDINATE WITH DOME STRUCTURE SUPPLIER.
4. PROVIDE AND INSTALL NEW TRANSFORMER. SEE ONE-LINE DIAGRAM FOR SIZING AND CONNECITON DETAILS.
5. PROVIDE AND INSTALL NEW AUTOMATIC TRANSFER SWITCH. (ATS NOT PROVIDED BY DOME STRUCTURE SUPPLIER.) COORDINATE ATS REQUIREMENTS WITH FARLEY GROUP PRIOR TO PURCHASE.
6. LIGHTING CONTROL PANEL, NEMA 3R. CABINET TO HOUSE CONTROLS FOR POWER TO JB-1 THROUGH JB-10, USED TO POWER AIR STRUCTURE INTERIOR SUSPENDED LIGHTS. MOUNT CABINET TO STRUT H-FRAME.
7. MECHANICAL PAD IS OPEN TO AIR, WITH NO COVER. ALL EQUIPMENT PROVIDED BY ELECTRICAL CONTRACTOR WITHIN PAD AREA TO BE RATED NEMA 3R.
8. PROVIDE AND INSTALL PANELS. SEE DETAIL 1/E0.02 FOR ONE-LINE DIAGRAM. SEE SHEETS E0.02 AND E0.03 FOR PANEL SCHEDULES. MOUNT PANELS TO STRUT H-FRAME.
9. SEE SHEET AS11 FOR FARLEY GROUP ELECTRICAL WIRING BETWEEN AIR STRUCTURE EQUIPMENT AND PANELS '2B' AND '4B'. CONTRACTOR TO PROVIDE AND INSTALL ALL WIRING FOR AIR STRUCTURE EQUIPMENT, BUT NOT TO MAKE FINAL CONNECTIONS. FARLEY GROUP CONTRACTOR TO MAKE FINAL WIRING CONNECTIONS TO AIR STRUCTURE EQUIPMENT.



DETAIL AT GRADE BEAM

DISCLAIMER: DETAIL PROVIDED BY DOME MFR., NOT PREPARED BY ENGINEER OF RECORD.

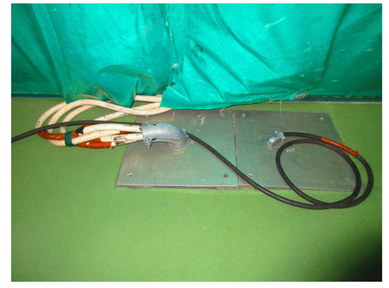
2 / E4.02 DOME LIGHTING JUNCTION BOX
SCALE: 3/8"=1'-0"



DETAIL AT FIXTURE

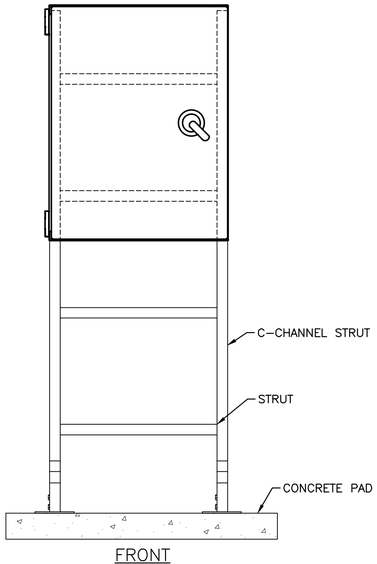
DISCLAIMER: DETAIL PROVIDED BY DOME MFR., NOT PREPARED BY ENGINEER OF RECORD.

3 / E4.02 MFR. HANGING LIGHT FIXTURE
SCALE: 3/8"=1'-0"



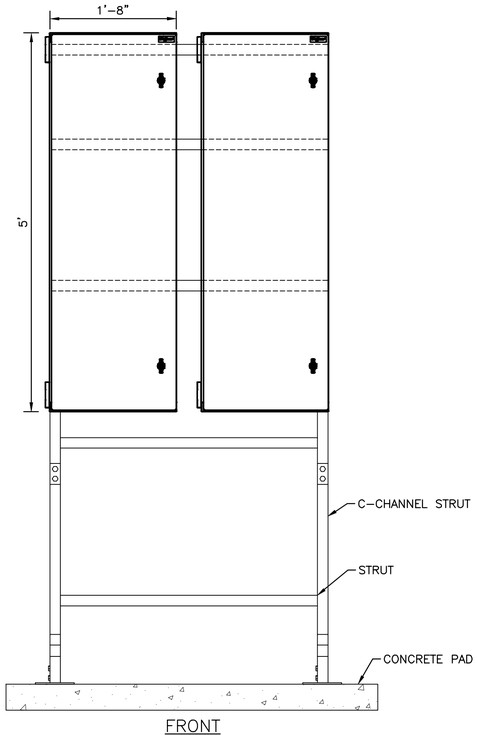
NOTE: THESE PHOTOS WERE TAKEN IN JANUARY 2026, WITHIN THE EXISTING ERECTED WEST AIR DOME STRUCTURE ON SITE.

6 / E4.02 EXAMPLE OF AIR DOME JUNCTION BOXES
NO SCALE



FRONT

4 / E4.02 LIGHTING CONTROL PANEL (LCP) H-FRAME
NOT TO SCALE



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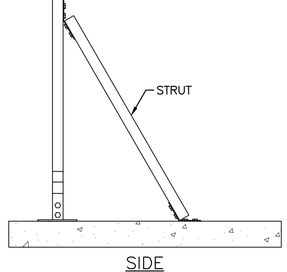

SIDE

5 / E4.02 PANELS MOUNTED TO H-FRAME
NOT TO SCALE

FWD//
FIELDWORK DESIGN & ARCHITECTURE
1752 SE HAWTHORNE BLVD
PORTLAND, OREGON 97214
503.360.1437

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R&W ENGINEERING, INC.
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Beaverton, Oregon 97005
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Office: (503) 292-6000
E-mail: rweng@rweng.com
Project No.: 1810.001.001
Contact: S. HOLMAN

THPRD
HMT PICKLEBALL FACILITY

15707 SW WALKER RD
BEAVERTON, OR 97006

DATE: 02/10/2026
DRAWN BY: R&W

Bid Set

REVISIONS:

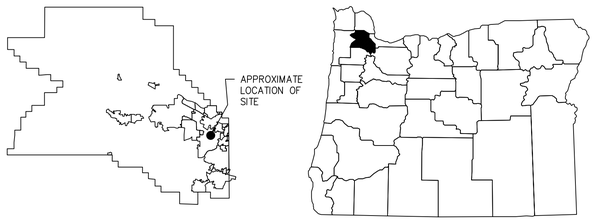
1	2026.02.10 PERMIT COMMENT RESPONSES

STAMP:

REGISTERED PROFESSIONAL ENGINEER
88445PE
OREGON
NOV 12, 2015
JONATHAN PATRICK LILLY
RENEWAL DATE: 12/31/2026
2026.02.10 18:13:24-08'00'

ELECTRICAL DETAILS

E4.02

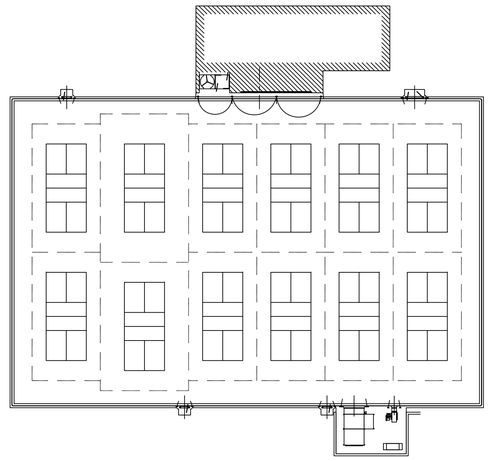


BEAVERTON, OR
WASHINGTON COUNTY

THE FARLEY GROUP
AIR–SUPPORTED STRUCTURES

TUALATIN HILLS HMT PICKELBALL FACILITY
15707 SW WALKER RD,
BEAVERTON, OR 97006
WASHINGTON COUNTY

PROJECT:
FOUNDATION & ANCHORAGE DRAWINGS FOR
153'x234' AIR SUPPORTED STRUCTURE



KEY PLAN

INDEX OF DRAWINGS

C–1 COVER SHEET
AS1 FLOOR PLAN LAYOUT AND GENERAL NOTES
AS2 ELEVATIONS
AS3 GRADE BEAM DETAILS (TYP. CAST USING FORMWORK)
AS3a GRADE BEAM DETAILS –ALTERNATE DESIGN–
(SOIL FORMED)
AS4 EXIT DOOR AND HANG LIGHT DETAILS
AS5 DOUBLE DOOR DETAILS
AS6 BUILDING CONNECTION DETAILS (1)
AS7 BUILDING CONNECTION DETAILS (2)
AS8 MECHANICAL PAD DETAILS (1)
AS9 MECHANICAL PAD DETAILS (2)
AS10 OUTLET LOCATION PLAN
AS11 MECHANICAL AND ELECTRICAL DIAGRAMS
AS12 MECHANICAL AND ELECTRICAL NOTES

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BOM TABLE

ITEM NO:	ITEM NAME	DESCRIPTION	QTY.
I.	SINGLE EXIT DOOR	40"WIDE OPEN WITH CAST–IN–BRACING (FOR EMERGENCY EXIT)	3
II.	DOUBLE WIDTH DOOR	40"SINGLE + NON–BAL LEAF, STEEL FRAME, CAST–IN–BRACING (FOR EMERGENCY EXIT)	1
III.	COMBO UNIT	ONE 3–LEAF REVOLVING & ONE AUTO PAL	1
IV.	FURNACE	2.00 MBTU HEAT INFLATION UNIT	1
V.	STANDBY FAN	BI–365 INFLATION FAN	1
VI.	GENERATOR	GENERAC SG035– 35 KW	1
VII.	TRANSFER SWITCH	TRANSFER SWITCH (FOR GENERATOR & LIGHTS)	1
VIII.	CONTROL PANEL	REMOTE PANEL	1
IX.	EXIT SIGNS	EMERGENCY EXIT SIGNAGE	4

REVISION TABLE

	NO:	DATE: (DD/MM/YY)	REVISION NOTES:
PRELIM DETAIL DRAWING REVISION NUMBERS	1	21/10/2025	UPDATED EXIT #4 LOCATION, LIGHT FIXTURE BY OWNER/ELECTRICAL CONTRACTOR, BUILDING CONNECTION DETAILS, MECHANICAL PAD DETAILS & OUTLET LOCATION PLAN. CHANGED TO A 2.00 MBTU HEAT & INFLATION UNIT. DELETED AS13 & AS14 ESTIMATED LIGHT LEVELS.
	2	03/11/2025	UPDATED BUILDING CONNECTION DETAIL ON PAGES AS6 & AS7
	3	17/11/2025	UPDATED GENERAL NOTES ON AS1 & GRADE BEAM DETAILS ON AS3.
	1	20/11/2025	UPDATED DRAWING SET TO 24" WIDE GRADE BEAM WIDTH.

NO:	DATE: (DD/MM/YY)	REVISION:
1	20/11/2025	SEE PAGE C–1 FOR REVISION NOTES

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www.servinskyeng.com

This seal is for foundation design for the site specific location in Beaverton, Oregon.

Baljeet Jonjua, PE
17/11/25

REGISTERED PROFESSIONAL ENGINEER
104322PE
OREGON
11/21/25
BALJEET SINGH JONJUA

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Email: manf@thefarleygroup.com
Creative Space Solutions

CLIENT:
TUALATIN HILLS
HMT PICKELBALL FACILITY

CLIENT ACCEPTANCE SIGNATURE:

DATE ACCEPTED:

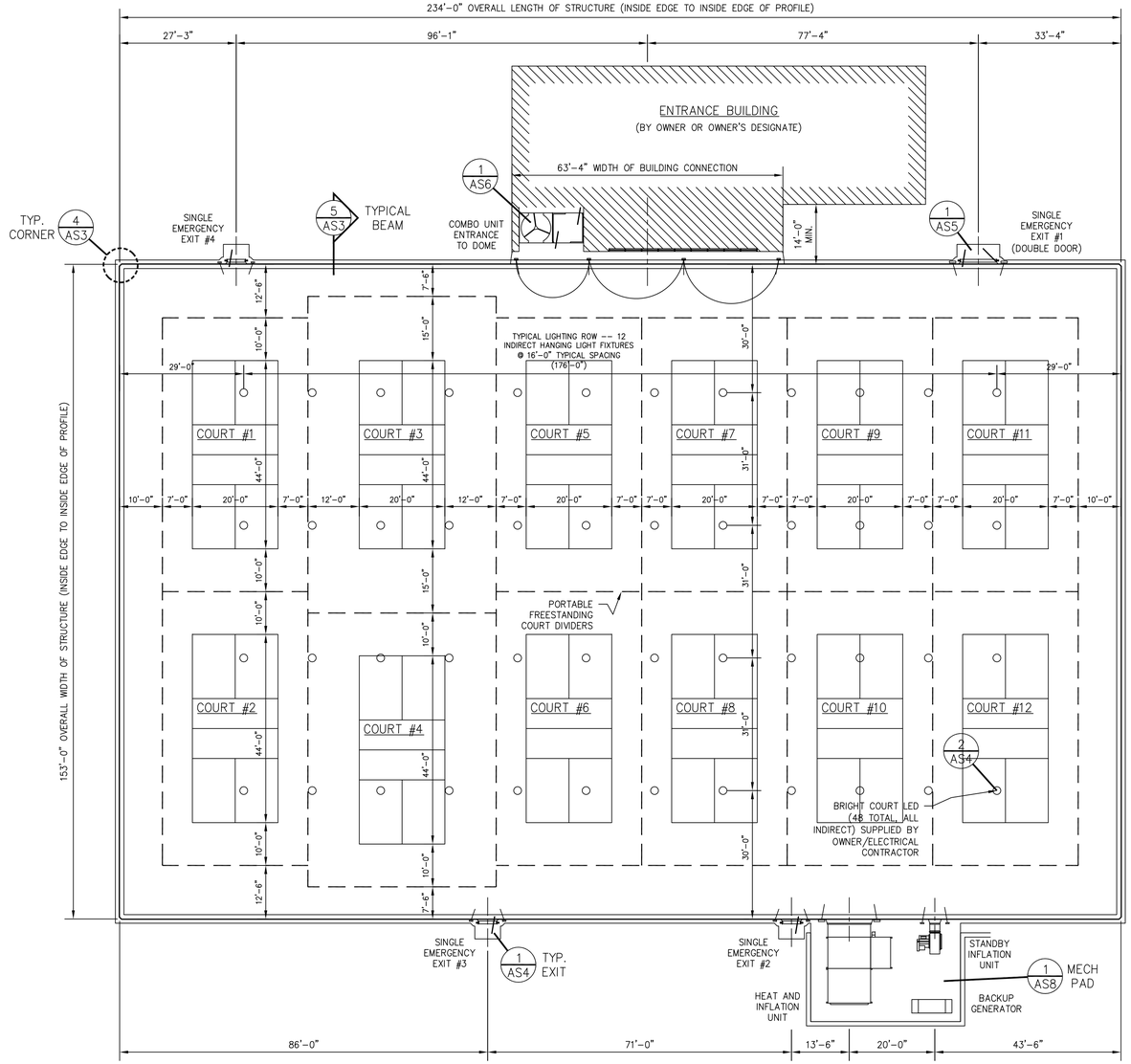
PROJECT:
AIR SUPPORTED STRUCTURE
FOR PICKLEBALL
(153'–0"x 234'–0"x 46'–0")

LOCATION:
15707 SW WALKER RD,
BEAVERTON, OR 97006

DRAWING:
COVER SHEET

PROJECT NORTH:	DRN BY:	C.J.S.
	REVIEWED BY:	A.R.R.
	DATE:	NOV. 17, 2025
	SCALE:	
PLAN NORTH:	PROJ. #:	24–018D
	DRAWING #:	C–1 REV. 01

Title Block – Construction Drawings and Cutting Patterns: F–3–03 – Rev. 1 – April 02



1 AS1 FLOOR PLAN LAYOUT OF STRUCTURE
SCALE 1/16"=1'-0"

GENERAL NOTES:

1. DESIGN LOADS:

THE BUILDING TYPE SHOWN ON THE DRAWINGS IS AN AIR SUPPORTED STRUCTURE IN WHICH THE FABRIC ENVELOPE IS SUPPORTED BY INTERNAL AIR PRESSURE. THE INTERNAL PRESSURE IS MONITORED DAILY BY THE OWNER AND IS INCREASED PRIOR TO INCLEMENT WEATHER CONDITIONS (I.E. HIGH WINDS OR SNOWFALLS) AS DIRECTED IN THE OWNER'S MANUAL, IN ORDER TO PROVIDE MORE RESISTANCE TO ANY LOADING DUE TO WEATHER.

DESIGN WIND LOADS: BASIC WIND SPEED (3-SECOND GUST) OF 103 MPH, EXPOSURE 'C', AS SPECIFIED IN IBC 2021 1609.4.

INTERNAL DESIGN AIR PRESSURES:
- MINIMUM: 5.200 PSF (1.00" w.c.) (NORMAL OPERATION CONDITIONS)
- MAXIMUM: 11.02 PSF (2.12" w.c.) (DURING INCLEMENT WEATHER)
- EMERGENCY STANDBY SYSTEM: 7.800 PSF (1.50" w.c.) (IN THE EVENT OF POWER FAILURE)

DESIGN SNOW LOADS: THE AIR STRUCTURE IS DESIGNED WITH MANUAL METHOD OF SNOW REMOVAL AS STATED IN ASI-77 AIR STRUCTURES DESIGN AND STANDARDS MANUAL, SECTION A-5.1, METHOD C.
1.) SNOW TO BE MANUALLY REMOVED BY OWNER IF:
   A.) SNOW REMAINS ON DOME MORE THAN 3 DAYS & SNOW IS MORE THAN 6 INCHES DEEP
   B.) SNOW EXCEEDS 12" IN DEPTH
2.) SNOW TO BE REMOVED AROUND ENTIRE PERIMETER OF DOME BY OWNER AFTER EVERY SNOWFALL

EARTHQUAKE LOADING: WIND LOAD GOVERNS

DEAD LOAD: SELF WEIGHT OF DOME AND LIGHTS

2. STRUCTURAL:

ALL WORK SHALL CONFORM TO THE APPLICABLE CODES, LOCAL REGULATIONS AND AUTHORITIES HAVING JURISDICTION.

THE ENGINEER SHALL BE GIVEN 48 HOURS NOTICE BY THE CONTRACTOR FOR ANY REQUIRED INSPECTION OF FOUNDATION (GRADE BEAM), REINFORCING STEEL, AND FRAMING.

THIS SET OF DRAWINGS SUPERSEDES AND REPLACES ALL PREVIOUS DRAWINGS.

ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. NO CHANGES SHALL BE MADE WITHOUT WRITTEN APPROVAL BY THE ENGINEER.

ALL SURFACES OF EXTERIOR STRUCTURES DIRECTLY EXPOSED TO THE INTERIOR OF THE AIR STRUCTURE (IE. BUILDING CONNECTIONS) SHALL BE DESIGNED TO WITHSTAND A MINIMUM OF 20 PSF OF AIR PRESSURE.

THIS AIR SUPPORTED STRUCTURE HAS BEEN DESIGNED USING IBC 2021 & ASI DOCUMENT "ASI-77 AIR STRUCTURE DESIGN AND STANDARDS MANUAL" AS GUIDES, AND ASSUMES A DESIGN BASIC WIND SPEED (3-SECOND GUST) OF 103 MPH, EXPOSURE 'C', AS SPECIFIED IN IBC 2021 1609.4.

3. EXCAVATION AND BACKFILL:

SOIL CONDITIONS SHALL BE REPORTED TO THE ENGINEER AT THE TIME OF EXCAVATION AND AT HIS/HER DISCRETION THE ENGINEER MAY REQUEST FURTHER SOILS INVESTIGATION.

REMOVE ALL TOP SOIL AND DELETERIOUS MATERIAL FROM BENEATH ALL STRUCTURAL COMPONENTS.

USE ONLY ENGINEER APPROVED COMPACTED FILL TO RAISE GRADES WHERE REQUIRED BENEATH STRUCTURES.

COMPACT ALL GRANULAR FILL 98% SPDD. COMPACTION TESTING SHALL BE CARRIED OUT BY A QUALIFIED GEOTECHNICAL CONSULTANT PRIOR TO INSTALLATION OF ANY STRUCTURES SUPPORTED ON FILL.

SLOPE ALL GRADES AWAY FROM THE AIR STRUCTURE AND ITS COMPONENTS.

PROTECT EXCAVATION AND GRADE BELOW SLABS FROM FROST PENETRATION BY PROPER USE OF STRAW, THERMAL BLANKETS AND/OR TARPS.

APPROVAL TO POUR CONCRETE DOES NOT IMPLY ASSURANCE OF ASSUMED SUBGRADE CONDITIONS USED IN THE STRUCTURAL DESIGN OF THE FOUNDATIONS (GRADE BEAMS) OF THIS PROJECT.

4. CONCRETE:

ALL CONCRETE AND REBAR PLACEMENT SHALL CONFORM TO ACI CODE 318-11.

CONCRETE STRENGTH SHALL BE 3500 psi (25 MPa), 5% - 8% AIR ENTRAINMENT IN ALL CASES, UNLESS OTHERWISE SPECIFIED.

USE ONLY GRADE 60 (60,000 psi) DEFORMED REBAR.

APPROPRIATE MEASURES SHALL BE TAKEN TO PROTECT CONCRETE FROM EXCESSIVE EVAPORATIVE WATER LOSS AND ENSURE PROPER CURING.

ALL CONCRETE SHALL BE TESTED BY A ACI CERTIFIED CONCRETE TESTING LABORATORY.

USE HIGH FREQUENCY VIBRATION TO PLACE ALL CONCRETE. IT IS VERY IMPORTANT TO ENSURE THAT ALL VOIDS ARE FILLED AND PROPER BOND IS ACHIEVED BETWEEN THE CONCRETE AND EXTRUDED PROFILE (IF PROFILE IS USED).

APPROPIATE MEASURES SHALL BE TAKEN TO PROTECT CONCRETE FROM EXPOSURE TO FREEZING TEMPERATURES FOR AT LEAST SEVEN (7) DAYS FOLLOWING CONCRETE PLACEMENT.

UNLESS OTHERWISE SPECIFIED, ALL CONCRETE SURFACES SHALL BE GIVEN A FLOAT FINISH.

SPLICE LAP LENGTHS AND BEND RADII SHALL NOT BE LESS THAN:
- 16 INCH LAP & 1 1/2" BEND RADIUS FOR #4 (10M),
- 24 INCH LAP & 2" BEND RADIUS FOR #5 (15M),
- 30 INCH LAP & 2 1/2" BEND RADIUS FOR #6 (20M),
- 38 INCH LAP & 3" BEND RADIUS FOR #7 (25M),
- 46 INCH LAP & 5 1/2" BEND RADIUS FOR #8 (30M).

ENSURE MINIMUM COVER FOR ALL REBAR, AS NOTED IN BEAM DETAILS.

MAXIMUM DESIGN LOADS FOR UPLIFT ON THE AIR STRUCTURE REQUIRE THAT FULL CONCRETE STRENGTH BE ACHIEVED BEFORE EXTRUDED PROFILE OR OTHER ATTACHMENT SYSTEM IS SUBJECTED TO LOADING.

TYPICAL GRADE BEAM IS TRENCHED (NOT FORMED) AND MONOLITHIC. CAST AS A SINGLE POUR TO THE TOP SURFACE. WHERE THIS IS NOT POSSIBLE, THE CERTIFYING ENGINEER SHALL BE NOTIFIED IN ADVANCE TO PROVIDE DETAILING OF A SUITABLE ALTERNATIVE.

5. DIMENSIONING:

ALL GRADE BEAM DIMENSIONS ARE TO BE REFERENCED FROM THE INSIDE EDGE OF PROFILE TO ENSURE PROPER FIT OF AIR STRUCTURE MEMBRANE.

Title Block - Construction Drawings and Cutting Patterns: F-3-03 - Rev. 1 - April 02

NO:	DATE: (DD/MM/YY)	REVISION:
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Holland, Michigan 49424
(616) 738-1281
www.servinskyeng.com

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Baljeet Jonjua, PE
17/11/25

REGISTERED PROFESSIONAL ENGINEER
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Creative Space Solutions

CLIENT:

TUALATIN HILLS
HMT PICKELBALL FACILITY

CLIENT ACCEPTANCE SIGNATURE:

DATE ACCEPTED:

PROJECT:

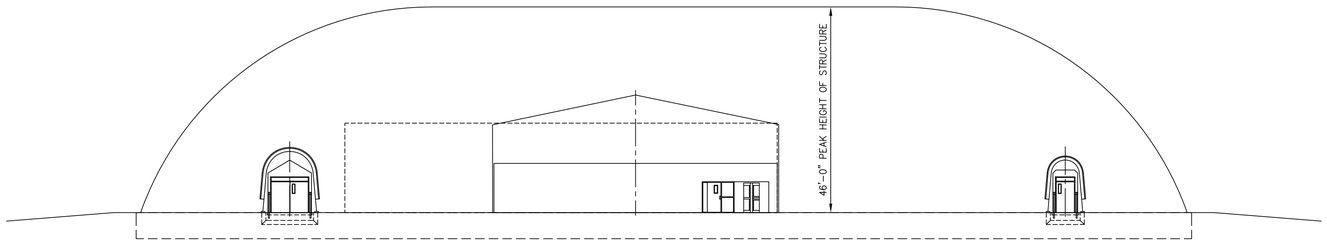
AIR SUPPORTED STRUCTURE
FOR PICKLEBALL
(153'-0"x 234'-0"x 46'-0")

LOCATION:
15707 SW WALKER RD,
BEAVERTON, OR 97006

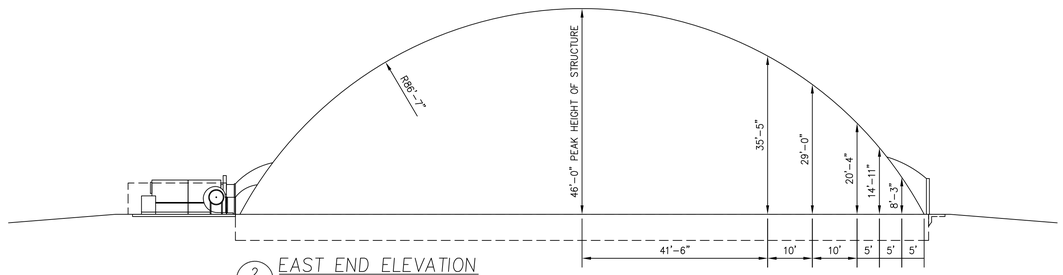
DRAWING:

FLOOR PLAN LAYOUT
AND GENERAL NOTES

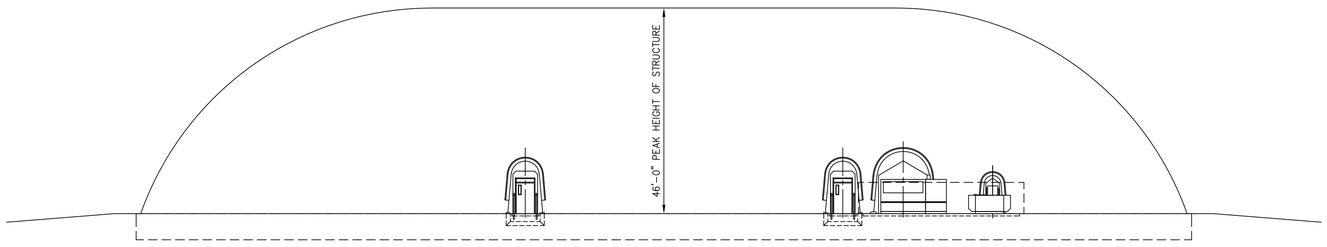
PROJECT NORTH:	DRN BY: C.J.S.
	REVIEWED BY: A.R.R.
	DATE: NOV. 17, 2025
	SCALE: NOT TO SCALE
PLAN NORTH:	PROJ. #: 24-018D
	DRAWING #: AS1 REV. 01



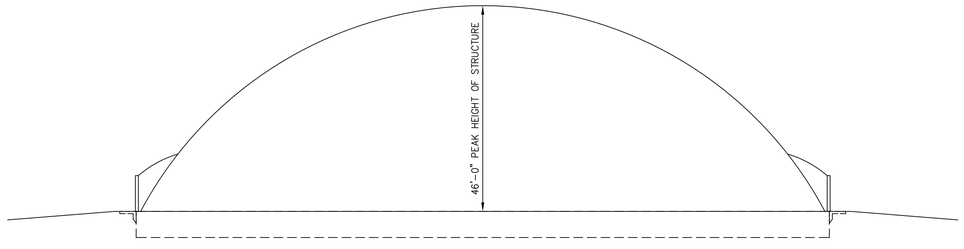
1/AS2 NORTH SIDE ELEVATION
SCALE 1/16"=1'-0"



2/AS2 EAST END ELEVATION
SCALE 1/16"=1'-0"



3/AS2 SOUTH SIDE ELEVATION
SCALE 1/16"=1'-0"



4/AS2 WEST END ELEVATION
SCALE 1/16"=1'-0"

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NO:	DATE: (DD/MM/YY)	REVISION:

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ELEVATIONS

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	REVIEWED BY:	A.R.R.
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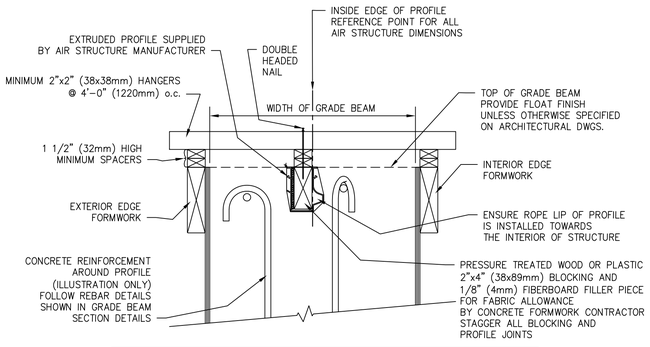
PLAN NORTH:	PROJ. #:	24-018D
	DRAWING #:	AS2 REV. 01

Title Block - Construction Drawings and Cutting Patterns: F-3-03 - Rev. 1 - April 02



PRESSURE TREATED WOOD OR PLASTIC
2"x4" (38x89mm) BLOCKING USED FOR PROFILE INSTALLATION
TO REMAIN FOR AIR STRUCTURE RETENTION
BY CONCRETE FORMWORK CONTRACTOR

1/AS3 PROFILE INSTALLATION DETAIL (TYPE 'A')
NOT TO SCALE

GRADE BEAM INSTALLATION:

NOTE: THIS GUIDE IS PREPARED TO ASSIST THOSE WITH LEGITIMATE CONSTRUCTION EXPERIENCE. IT IS NOT A TOTALLY COMPREHENSIVE INSTRUCTION MANUAL FOR THOSE UNFAMILIAR WITH STANDARD CONSTRUCTION INDUSTRY PRACTICES.

PART 1. BEAM CAST USING FORMWORK:

IN LOOSE OR UNSTABLE SOILS A TRENCH WILL HAVE TO BE EXCAVATED WITH 45° SIDE SLOPES. THE BEAM CAN THEN BE FORMED AND POURED. AFTER A MINIMUM OF 24 HOURS THE FORMWORK CAN BE REMOVED AND BACKFILL INSTALLED. NOTE THAT WHEN BACKFILLING, PLACE EXCAVATED MATERIAL EQUALLY ON BOTH SIDES OF THE BEAM. BACKFILL IN 8" (200mm) LIFTS (LAYERS) AND COMPACT THOROUGHLY BEFORE INSTALLING SECOND LIFT.

WHERE POSSIBLE, FORMWORK SHOULD BE INSTALLED IN SUCH A MANNER TO ALLOW SOME CONCRETE TO FLOW UNDERNEATH FORM BOARDS DURING THE POURING PROCESS TO INCREASE SOIL RESISTANCE.

NOTE: ANY GRADE BEAM INSTALLATION SHOULD BE UNDERTAKEN ONLY BY EXPERIENCED CONTRACTORS. THE FARLEY GROUP WILL NOT BE HELD RESPONSIBLE FOR ERRORS MADE BY INDIVIDUALS, OR GROUPS UNFAMILIAR WITH STANDARD CONSTRUCTION MATERIALS OR METHODS.

PART 2. REINFORCING STEEL:

THE GRADE BEAM IS USED AS BALLAST TO PREVENT UPLIFT OF YOUR AIR STRUCTURE. THE REINFORCING STEEL REQUIREMENTS ARE MINIMUM BUT REQUIRE ACCURATE INSTALLATION NONE THE LESS.

THE USUAL SIZE OF HORIZONTAL REBAR IS #5 (15M). VERTICAL REBAR IS TYPICALLY #4 (10M). PLACING TYPICALLY WILL BE AS SHOWN ON DRAWINGS. STIRRUPS SHOULD BE BENT AS SHOWN WITH THE INSIDE HOOK (I.E. INTERIOR OF STRUCTURE) BEING WITHIN 1" (25mm) OF THE RETENTION PROFILE AND 2" (50mm) FROM TOP OF CONCRETE. WITH ONE HORIZONTAL BAR RUNNING THROUGH THIS HOOK, THE RETENTION CAPACITY OF THE PROFILE IS IMPROVED.

NOTE: KEEP REINFORCING STEEL 2" (50mm) AWAY FROM OUTSIDE OF CONCRETE.

PART 3. RETENTION PROFILE:

THERE ARE TWO METHODS FOR INSTALLING THE RETENTION PROFILE. THE METHOD TO BE USED FOR THIS PROJECT IS SHOWN IN DETAIL 1/AS3.

METHOD 'A' IS A FLUSH PROFILE (DETAIL 1/AS3) GIVING ONLY 2" (50mm) OF TOP EXPOSED WHEN THE STRUCTURE IS DOWN. THIS METHOD IS SUITABLE FOR SMALLER STRUCTURES UP TO 118' (36m) WIDE AND HARD SURFACE COURTS.

METHOD 'B' IS A RECESSED PROFILE (NOT SHOWN). ADVANTAGES OF THE RECESSED PROFILE INCLUDE INCREASED RETENTION FOR LARGER STRUCTURES AND CONDENSATION DRAINAGE CHANNEL ESPECIALLY GOOD IN CLAY COURT TENNIS STRUCTURES.

BOTH INSTALLATION METHOD PROCEDURES ARE BASICALLY THE SAME.

NOTE: MAKE SURE THE ROPE EDGE POCKET ON THE SIDE OF THE PROFILE FACES INTO THE STRUCTURE (DETAIL 1/AS3).

AS THE PROFILE IS MANUFACTURED IN 10' (3m) LENGTHS, 10' (3m) PIECES OF PRESSURE TREATED 2 X 4 STAGGERED ON PROFILE SECTIONS WORKS WELL FOR INSTALLATION.

SECTIONS OF PROFILE PACKED WITH PRESSURE TREATED 2 X 4 AND 1/8" (3mm) MASONITE PACKING ARE WIRED UP TO SPREADERS AT 4' (1220mm) o/c. THE SPREADERS SPAN THE GAP AND HOLD THE TOP EDGE FORMS THE CORRECT DISTANCE APART (DETAIL 2/AS3).

ON METHOD 'A' PROFILE INSTALLATIONS, A STRIP OF DUCT TAPE ALONG THE TOP WILL KEEP CONCRETE OUT AND EASE REMOVAL OF 2 X 4 LATER (DETAIL 2/AS3).

USING FLEXIBLE TIE-WIRE, CLOSE THE PROFILE TIGHTLY AGAINST THE PACKING AND HANG FROM THE SPREADERS. 1½" (40mm) PACKING BETWEEN SPREADERS AND SIDE FORMS WILL EASE FINISHING OR, ALTERNATIVELY, SPREADERS CAN BE REMOVED WHEN CONCRETE HAS REACHED INITIAL SET TO SPEED FINISHING.

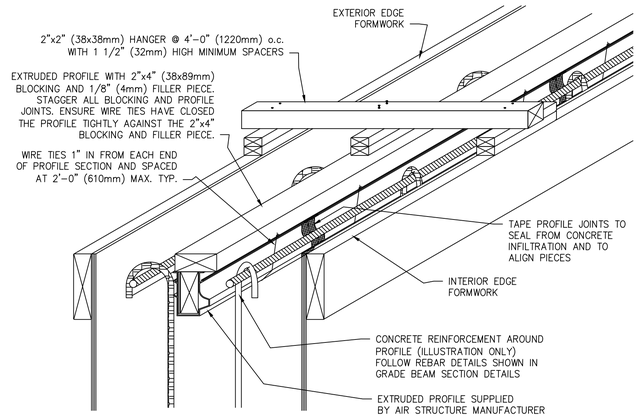
N.B.: REMOVE PACKING THE DAY AFTER POUR AS MOISTURE WILL SWELL LUMBER, MAKING REMOVAL DIFFICULT.

WITH THE 'B' METHOD, TWO PRESSURE TREATED 2 X 4'S WILL BE REQUIRED IN ADDITION TO THE 1/8" X 3½" (3mm X 89mm) FIBREBOARD (MASONITE) PACKING. ALL OTHER INSTRUCTIONS ARE SIMILAR.

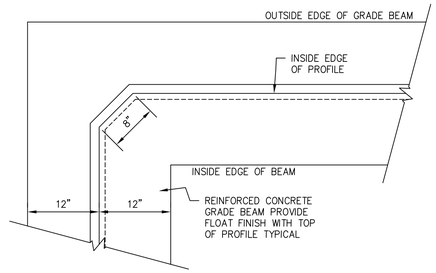
GENERAL DETAIL -- ON EACH CORNER OF THE STRUCTURE WILL BE A 45° ANGLE WHICH EASES INSTALLATION AND RELIEVES FABRIC STRESS (DETAIL 4/AS3). LAY A SHORT PIECE OF PROFILE ACROSS THE CORNER AS SHOWN AND CUT THROUGH INTERSECTIONS WITH A HAND SAW TO HAVE PERFECTLY MATCHING JOINTS.

PART 4. AIR STRUCTURE DRAINAGE:

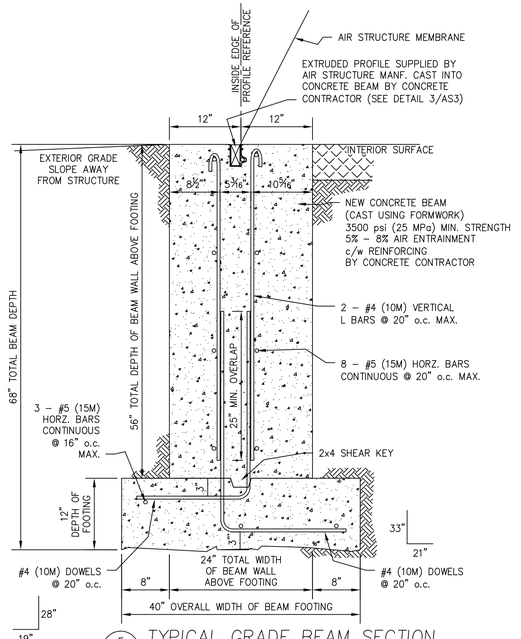
DRAINAGE (WHERE APPLICABLE) -- TO FACILITATE DRAINAGE FROM YOUR PROFILE, ESPECIALLY IN SITUATIONS WHERE TOP OF BEAM IS ABOVE EXTERIOR GRADE, WE RECOMMEND INSTALLING MIN. 1 1/2" WIDE DRAIN CHANNELS AT EVERY CORNER AND SIMILAR DRAIN CHANNELS SHOULD BE INSTALLED AROUND THE ENTIRE PERIMETER OF THE BEAM AT A SPACING OF 50'-0" MAXIMUM AND EACH SIDE OF DOOR AND MECHANICAL CONCRETE PADS. ENSURE THAT THE PLACEMENT OF PERIMETER DRAINS DOES NOT INTERFERE WITH PADS OR OTHER ELEMENTS SUCH AS CAST-IN CABLE ANCHORS. PROVIDE A MINIMUM DISTANCE OF 3'-0" FROM ANY INTERFERING ELEMENTS.



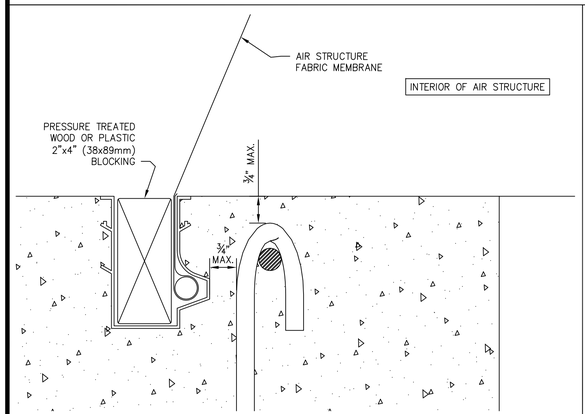
2/AS3 TYPICAL FORMING DETAIL FOR GRADE BEAM
NOT TO SCALE



4/AS3 TYPICAL BEAM CORNER DETAIL
SCALE 1" = 1'-0"

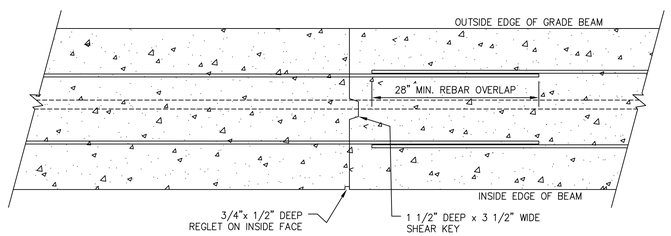


5/AS3 TYPICAL GRADE BEAM SECTION
SCALE 1" = 1'-0"

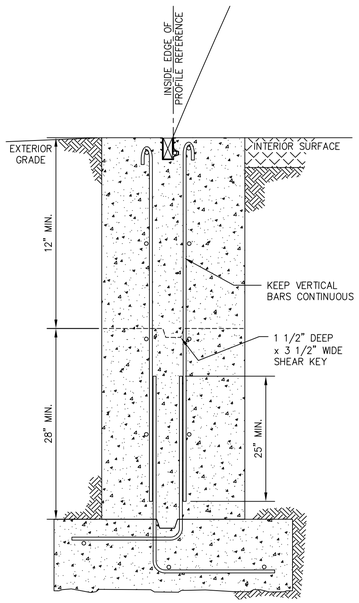


3/AS3 DETAIL OF REINFORCEMENT PLACEMENT AT PROFILE
NOT TO SCALE

VERTICAL CONSTRUCTION JOINTS NOT TO OCCUR WITHIN;
- 3'-0" MIN. OF A PERIMETER CONCRETE PAD EDGE
- 8'-0" MIN. FROM A BEAM CORNER
- 8'-0" MIN. FROM A UNDERGROUND VAULT
- 5'-0" MIN. FROM A CAST-IN CABLE ANCHOR



6/AS3 TYP. GRADE BEAM VERTICAL CONSTRUCTION JOINT
NOT TO SCALE



7/AS3 TYP. GRADE BEAM HORIZONTAL CONSTRUCTION JOINT
NOT TO SCALE

1	20/11/2025	SEE PAGE C-1 FOR REVISION NOTES
NO:	DATE: (DD/MM/YY)	REVISION:

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A CLIENT ACCEPTANCE SIGNATURE ON THE FIRST PAGE OF A BOUND SET OF DRAWINGS ACKNOWLEDGES THE ACCEPTANCE OF ALL PAGES CONTAINED IN THE BOUND SET OF DRAWING DETAILS.

A/B A -- DETAIL NUMBER
B -- SHEET WHERE DETAILED

Servinsky Engineering & Associates, PLLC
280 Douglas Avenue
Holland, Michigan 49424
(616) 738-1281
www.servinskyeng.com

This seal is for foundation design for the site specific location in Beaverton, Oregon.

Baljeet Jonjua, PE
17/11/25

REGISTERED PROFESSIONAL ENGINEER 104322PE OREGON 11/21/25 BALJEET SINGH JONJUA

THE FARLEY GROUP
Farley Manufacturing Inc.
A division of The Farley Group
6 Kerr Crescent
Puslinch, ON, Canada N0B 2J0
Phone: 1-888-445-3223
Fax: 1-888-445-3043
Email: manf@thefarleygroup.com
Creative Space Solutions

CLIENT:

TUALATIN HILLS
HMT PICKELBALL FACILITY

CLIENT ACCEPTANCE SIGNATURE:

DATE ACCEPTED:

PROJECT:

AIR SUPPORTED STRUCTURE
FOR PICKLEBALL
(153'-0"x 234'-0"x 46'-0")

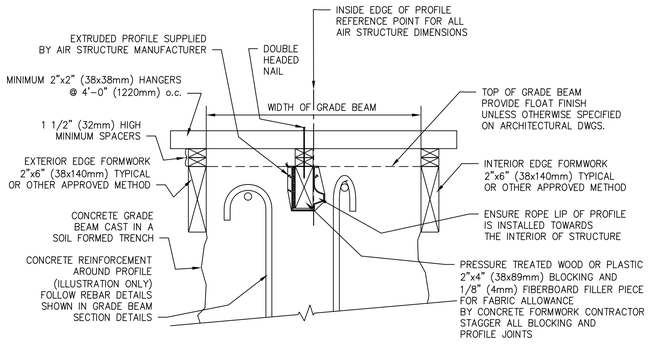
LOCATION:
15707 SW WALKER RD,
BEAVERTON, OR 97006

DRAWING:

GRADE BEAM DETAILS
(TYP. CAST USING FORMWORK)

PROJECT NORTH:	DRN BY:	C.J.S.
	REVIEWED BY:	A.R.R.
	DATE:	NOV. 17, 2025
	SCALE:	NOT TO SCALE
PLAN NORTH:	PROJ. #:	24-018D
	DRAWING #:	AS3 REV. 01

Title Block - Construction Drawings and Cutting Patterns: F-3-03 - Rev. 1 - April 02



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PART 1. SOIL FORMED:

THE SIMPLEST INSTALLATION UTILIZES THE SOIL AS A FORM FOR THE CONCRETE.

AN EXCAVATOR USING A BUCKET 2" (50mm) NARROWER THAN THE GRADE BEAM DIMENSION CAN EXCAVATE THE SPECIFIED WIDTH AND DEPTH. THIS WILL REQUIRE A FAIRLY STIFF SOIL THAT WILL RETAIN ITS SHAPE WHEN THE TRENCH IS CUT.

ALTERNATIVELY, IN LOOSE OR UNSTABLE SOILS THE TRENCH WILL HAVE TO BE EXCAVATED WITH 45° SIDE SLOPES. THE BEAM CAN THEN BE FORMED AND POURED. AFTER A MINIMUM OF 24 HOURS THE FORMWORK CAN BE REMOVED AND BACKFILL INSTALLED. NOTE THAT WHEN BACKFILLING, PLACE EXCAVATED MATERIAL EQUALLY ON BOTH SIDES OF THE BEAM. BACKFILL IN 8" (200mm) LIFTS (LAYERS) AND COMPACT THOROUGHLY BEFORE INSTALLING SECOND LIFT.

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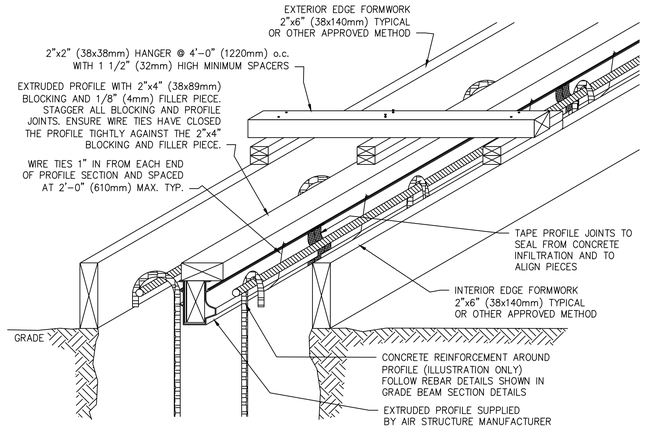
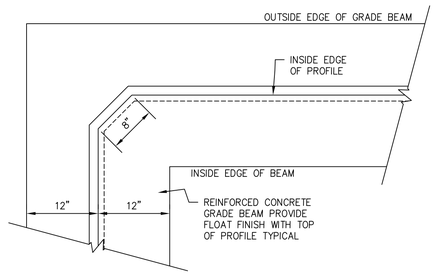
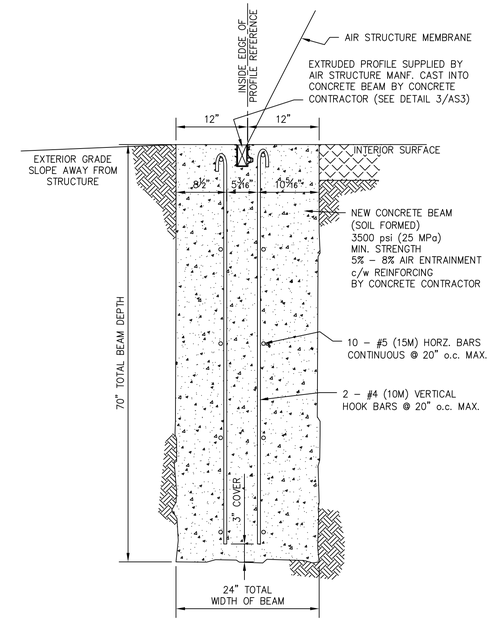


2 / AS3 TYPICAL FORMING DETAIL FOR GRADE BEAM
NOT TO SCALE



4 / AS3 TYPICAL BEAM CORNER DETAIL
SCALE 1" = 1'-0"



5 / AS3 TYPICAL GRADE BEAM SECTION
SCALE 1" = 1'-0"

NOTE:
ALTERNATE GRADE BEAM DESIGN DETAILS SHOWN ON THIS SHEET CAN BE USED AS A DIRECT SUBSTITUTION FOR STANDARD CAST USING FORMWORK BEAM DETAILS IN THEIR ENTIRETY OR AS A COMBINATION OF THE TWO DESIGNS (PART STANDARD AND PART ALTERNATE AROUND PERIMETER) TO SUIT SITE CONDITIONS (STIFF SOILS THAT ALLOW STABLE TRENCH) AND WHERE LOCAL CODES AND REGULATIONS PERMIT SUCH USE.

1	20/11/2025	SEE PAGE C-1 FOR REVISION NOTES
NO:	DATE: (DD/MM/YY)	REVISION:

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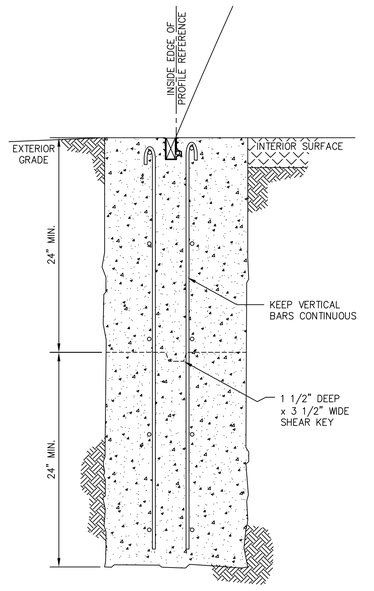
A / B A -- DETAIL NUMBER
B -- SHEET WHERE DETAILED

Servinsky Engineering & Associates, PLLC
280 Douglas Avenue
Holland, Michigan 49424
(616) 738-1281
www.servinskyeng.com

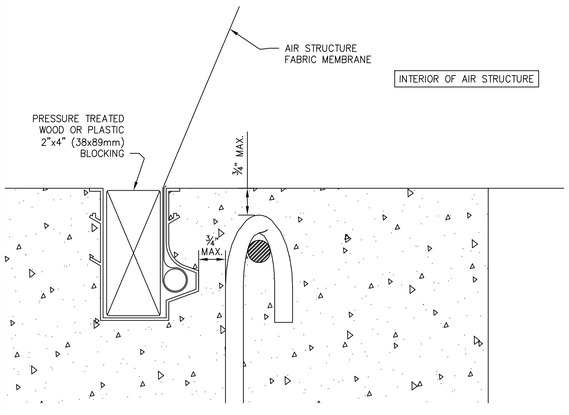
This seal is for foundation design for the site specific location in Beaverton, Oregon.

Baljeet Jonjua, PE
17/11/25

REGISTERED PROFESSIONAL ENGINEER
104322PE
OREGON
11/21/25
BALJEET SINGH JONJUA

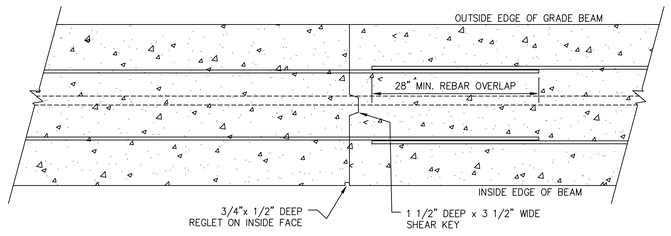


7 / AS3 TYP. GRADE BEAM HORIZONTAL CONSTRUCTION JOINT
NOT TO SCALE



3 / AS3 DETAIL OF REINFORCEMENT PLACEMENT AT PROFILE
NOT TO SCALE

VERTICAL CONSTRUCTION JOINTS NOT TO OCCUR WITHIN;
- 3'-0" MIN. OF A PERIMETER CONCRETE PAD EDGE
- 8'-0" MIN. FROM A BEAM CORNER
- 8'-0" MIN. FROM A UNDERGROUND VAULT
- 5'-0" MIN. FROM A CAST-IN CABLE ANCHOR



6 / AS3 TYP. GRADE BEAM VERTICAL CONSTRUCTION JOINT
NOT TO SCALE

THE FARLEY GROUP
Farley Manufacturing Inc.
A division of The Farley Group
6 Kerr Crescent
Puslinch, ON, Canada N0B 2J0
Phone: 1-888-445-3223
Fax: 1-888-445-3043
Email: manf@thefarleygroup.com
Creative Space Solutions

CLIENT:
TUALATIN HILLS
HMT PICKELBALL FACILITY

CLIENT ACCEPTANCE SIGNATURE:

DATE ACCEPTED:

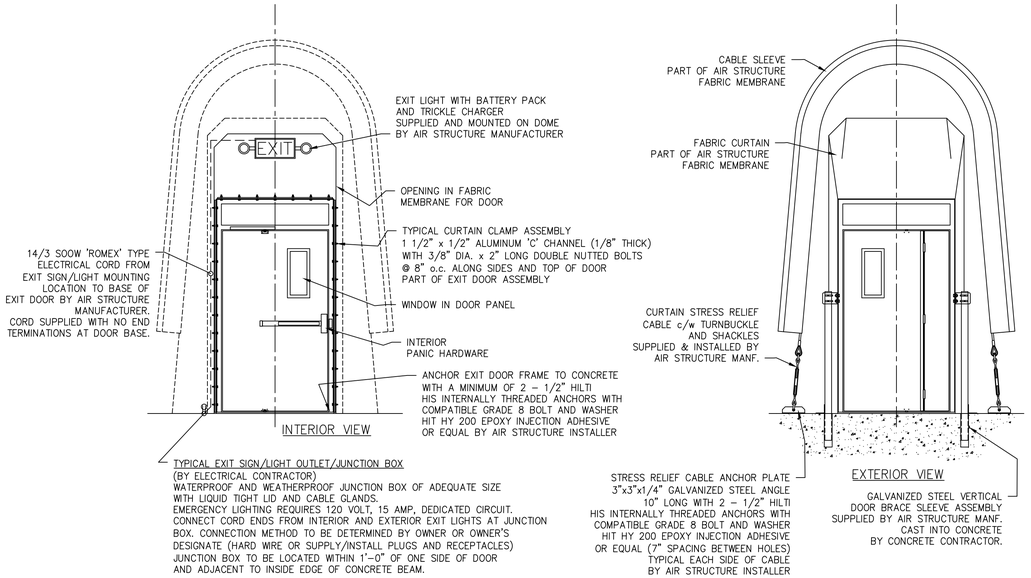
PROJECT:
AIR SUPPORTED STRUCTURE
FOR PICKLEBALL
(153'-0"x 234'-0"x 46'-0")

LOCATION:
15707 SW WALKER RD,
BEAVERTON, OR 97006

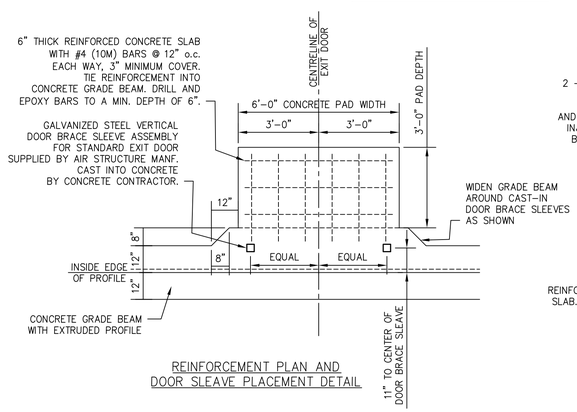
DRAWING:
GRADE BEAM DETAILS
-ALTERNATE DESIGN-
(SOIL FORMED)

PROJECT NORTH:	DRN BY:	C.J.S.
	REVIEWED BY:	A.R.R.
	DATE:	NOV. 17, 2025
	SCALE:	NOT TO SCALE
PLAN NORTH:	PROJ. #:	24-018D
	DRAWING #:	AS3a
	REV.	01

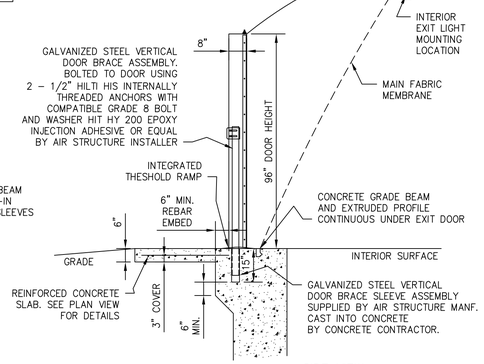
Title Block - Construction Drawings and Cutting Patterns: F-3-03 - Rev. 1 - April 02



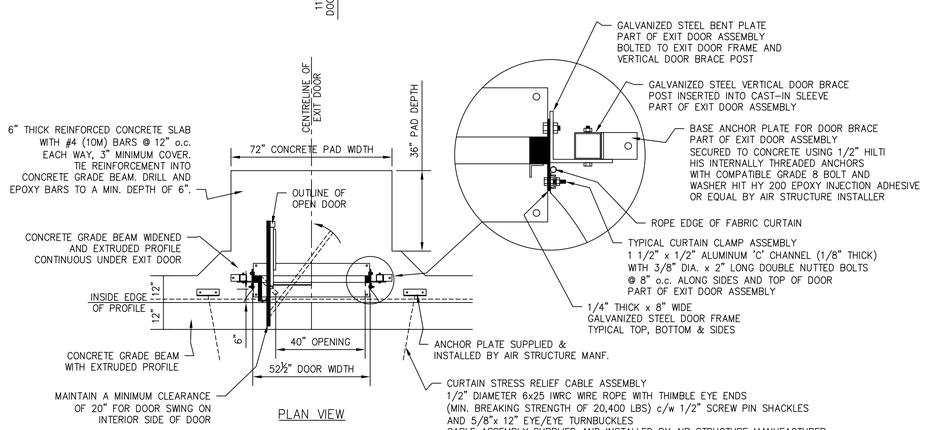
INSTALLATION NOTES: TOP OF DOOR BRACE SLEEVE ASSEMBLY TO BE FLUSH WITH TOP OF CONCRETE GRADE BEAM. ENSURE SLEEVE ASSEMBLY IS VERTICALLY PLUMB WHEN CAST INTO CONCRETE IS AVOID ISSUES WITH ANGLED DOOR BRACE POSTS.



REINFORCEMENT PLAN AND DOOR SLEAVE PLACEMENT DETAIL

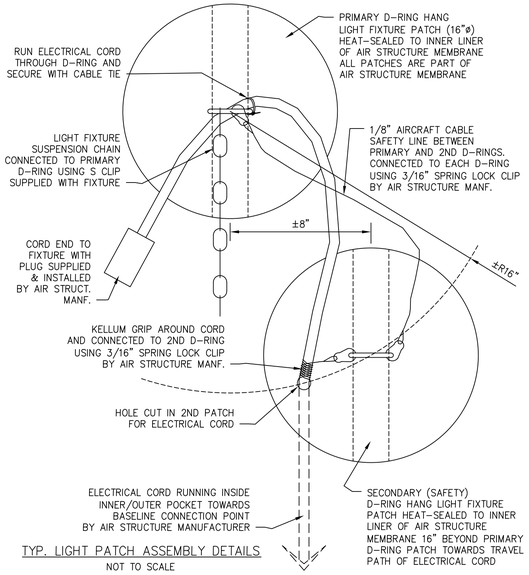


SIDE VIEW

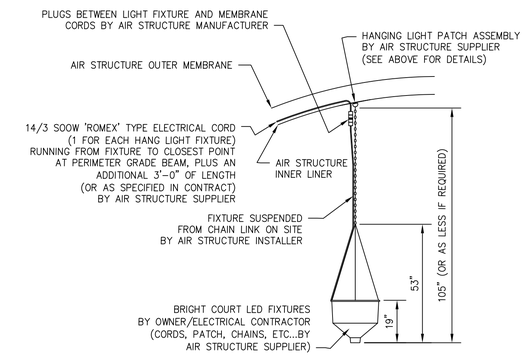


PLAN VIEW

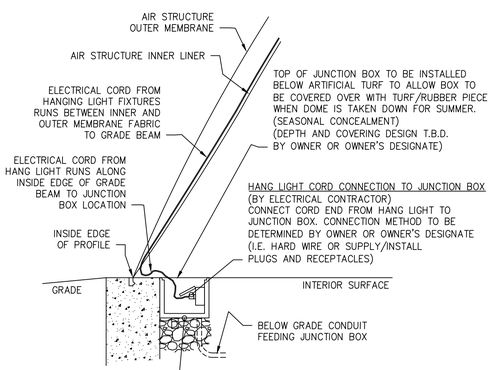
1/AS4 TYPICAL SINGLE EMERGENCY EXIT DOOR
SCALE 3/8"=1'-0"



TYP. LIGHT PATCH ASSEMBLY DETAILS
NOT TO SCALE



DETAIL AT FIXTURE



DETAIL AT GRADE BEAM

2/AS4 TYP. HANGING LIGHT FIXTURE (LED)
SCALE 3/8"=1'-0"

NO:	DATE: (DD/MM/YY)	REVISION:
1	20/11/2025	SEE PAGE C-1 FOR REVISION NOTES

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Holland, Michigan 49424
(616) 738-1281
www.servinskyeng.com

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Baljeet Jonjua, PE
17/11/25

REGISTERED PROFESSIONAL ENGINEER
104322PE
OREGON
11/21/25
BALJEET SINGH JONJUA

THE FARLEY GROUP
Farley Manufacturing Inc.
A division of The Farley Group
6 Kerr Crescent
Puslinch, ON, Canada N0B 2J0
Phone: 1-888-445-3223
Fax: 1-888-445-3043
Email: manf@thefarleygroup.com
Creative Space Solutions

CLIENT:
TUALATIN HILLS
HMT PICKELBALL FACILITY

CLIENT ACCEPTANCE SIGNATURE:

DATE ACCEPTED:

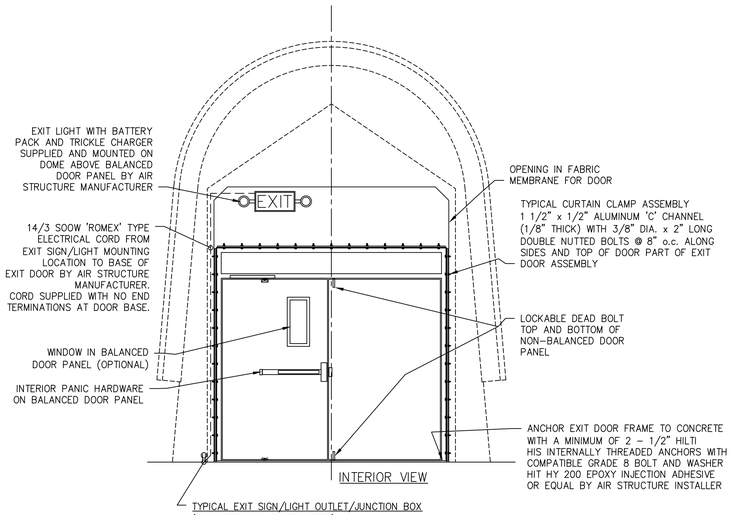
PROJECT:
AIR SUPPORTED STRUCTURE FOR PICKLEBALL
(153'-0"x 234'-0"x 46'-0")

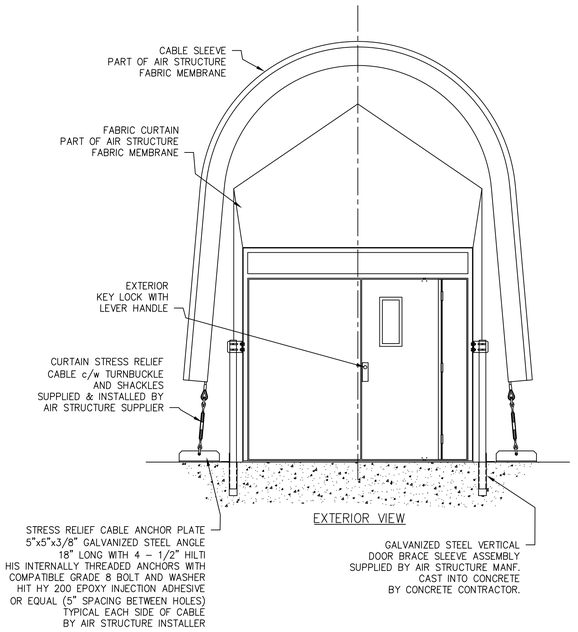
LOCATION:
15707 SW WALKER RD,
BEAVERTON, OR 97006

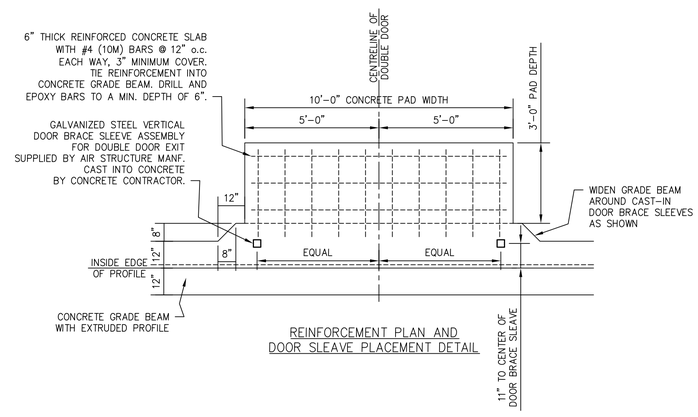
DRAWING:
EXIT DOOR AND HANG LIGHT DETAILS

PROJECT NORTH:	DRN BY:	C.J.S.
	REVIEWED BY:	A.R.R.
	DATE:	NOV. 17, 2025
	SCALE:	NOT TO SCALE
PLAN NORTH:	PROJ. #:	24-018D
	DRAWING #:	AS4 REV. 01

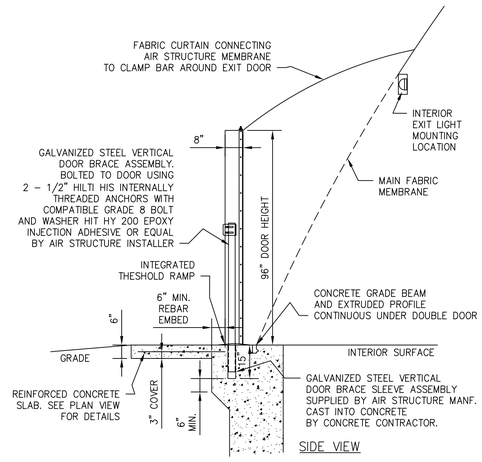
Title Block – Construction Drawings and Cutting Patterns: F-3-03 – Rev. 1 – April 02

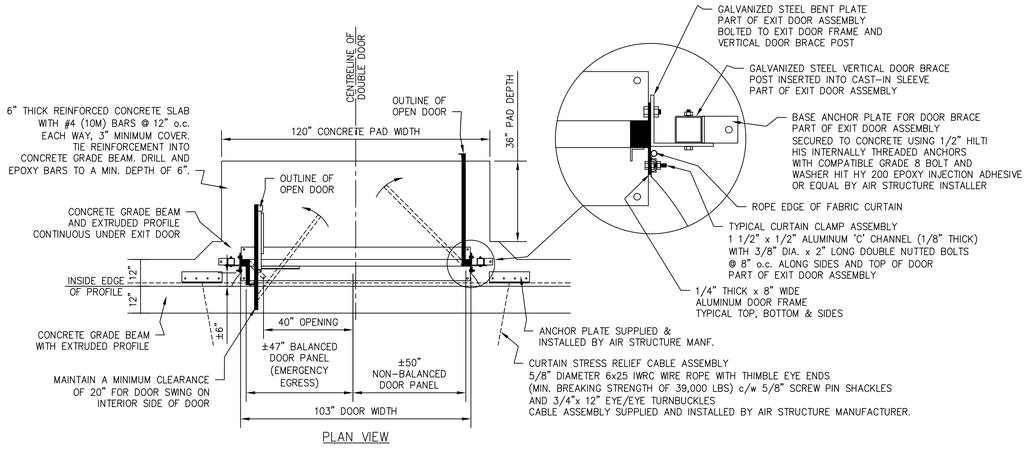






INSTALLATION NOTES: TOP OF DOOR BRACE SLEEVE ASSEMBLY TO BE FLUSH WITH TOP OF CONCRETE GRADE BEAM. ENSURE SLEEVE ASSEMBLY IS VERTICALLY PLUMB WHEN CAST INTO CONCRETE IS AVOID ISSUES WITH ANGLED DOOR BRACE POSTS.





1/AS5 TYPICAL DOUBLE WIDE EMERGENCY EXIT DOOR (LIFT ACCESS)
SCALE 3/8"=1'-0"

NO:	DATE: (DD/MM/YY)	REVISION:
1	20/11/2025	SEE PAGE C-1 FOR REVISION NOTES

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Baljeet Jonjua, PE
17/11/25

REGISTERED PROFESSIONAL ENGINEER
104322PE
OREGON
11/21/25
BALJEET SINGH JONJUA

THE FARLEY GROUP
Farley Manufacturing Inc.
A division of The Farley Group
6 Kerr Crescent
Puslinch, ON, Canada N0B 2J0
Phone: 1-888-445-3223
Fax: 1-888-445-3043
Email: manf@thefarleygroup.com
Creative Space Solutions

CLIENT:
TUALATIN HILLS
HMT PICKELBALL FACILITY

CLIENT ACCEPTANCE SIGNATURE:

DATE ACCEPTED:

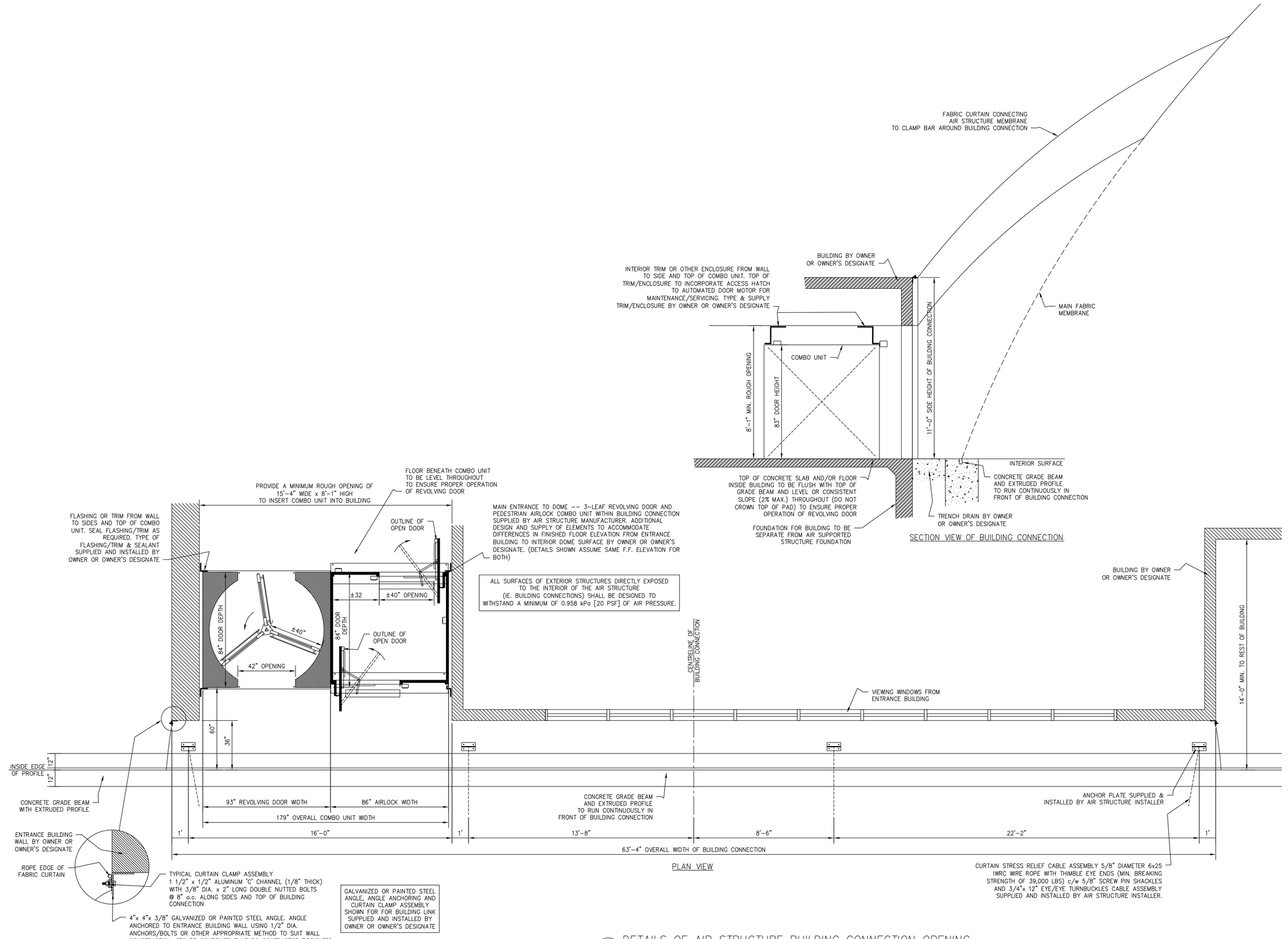
PROJECT:
AIR SUPPORTED STRUCTURE
FOR PICKLEBALL
(153'-0"x 234'-0"x 46'-0")

LOCATION:
15707 SW WALKER RD,
BEAVERTON, OR 97006

DRAWING:
DOUBLE DOOR DETAILS

PROJECT NORTH:	DRN BY:	C.J.S.
	REVIEWED BY:	A.R.R.
	DATE:	NOV. 17, 2025
	SCALE:	NOT TO SCALE
PLAN NORTH:	PROJ. #:	24-018D
	DRAWING #:	AS5 REV. 01

Title Block - Construction Drawings and Cutting Patterns: F-3-03 - Rev. 1 - April 02



1 / AS6 DETAILS OF AIR STRUCTURE BUILDING CONNECTION OPENING
SCALE 3/8"=1'-0"

(SEE DETAIL 1/AS7 FOR ADDITIONAL BUILDING CONNECTION DETAILS)

Title Block – Construction Drawings and Cutting Patterns: F-3-03 – Rev. 1 – April 02

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Baljeet Jonjua, PE
17/11/25

REGISTERED PROFESSIONAL ENGINEER 104322PE OREGON 11/21/25 BALJEET SINGH JONJUA

THE FARLEY GROUP
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A division of The Farley Group
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Puslinch, ON, Canada N0B 2J0
Phone: 1-888-445-3223
Fax: 1-888-445-3043
Email: manf@thefarleygroup.com
Creative Space Solutions

CLIENT:

TUALATIN HILLS
HMT PICKELBALL FACILITY

CLIENT ACCEPTANCE SIGNATURE:

DATE ACCEPTED:

PROJECT:

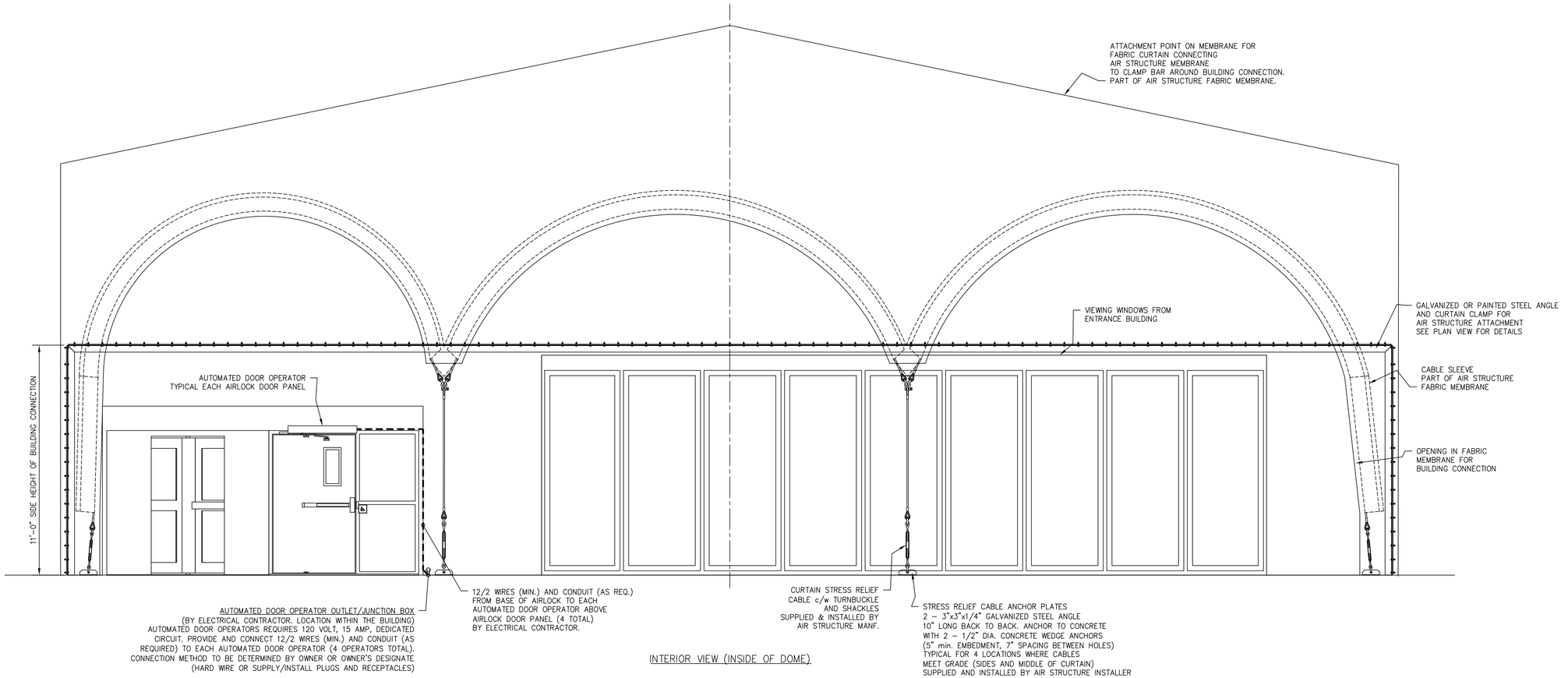
AIR SUPPORTED STRUCTURE
FOR PICKLEBALL
(153'-0"x 234'-0"x 46'-0")

LOCATION:
15707 SW WALKER RD,
BEAVERTON, OR 97006

DRAWING:

BUILDING CONNECTION
DETAILS (1)

PROJECT NORTH:	DRN BY:	C.J.S.
	REVIEWED BY:	A.R.R.
	DATE:	NOV. 17, 2025
	SCALE:	NOT TO SCALE
PLAN NORTH:	PROJ. #:	24-018D
	DRAWING #:	AS6 REV. 01



INTERIOR VIEW (INSIDE OF DOME)

1/AS7 DETAILS OF AIR STRUCTURE BUILDING CONNECTION OPENING
SCALE 3/8"=1'-0"

(SEE DETAIL 1/AS6 FOR ADDITIONAL BUILDING CONNECTION DETAILS)

Title Block – Construction Drawings and Cutting Patterns: F-3-03 – Rev. 1 – April 02

NO:	DATE: (DD/MM/YY)	REVISION:
1	20/11/2025	SEE PAGE C-1 FOR REVISION NOTES

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(616) 738-1281
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Baljeet Jonjua, PE
17/11/25

REGISTERED PROFESSIONAL ENGINEER
104322PE
OREGON
11/21/25
BALJEET SINGH JONJUA

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A division of The Farley Group
6 Kerr Crescent
Puslinch, ON, Canada N0B 2J0
Phone: 1-888-445-3223
Fax: 1-888-445-3043
Email: mant@thefarleygroup.com
Creative Space Solutions

CLIENT:

TUALATIN HILLS
HMT PICKELBALL FACILITY

CLIENT ACCEPTANCE SIGNATURE:

DATE ACCEPTED:

PROJECT:

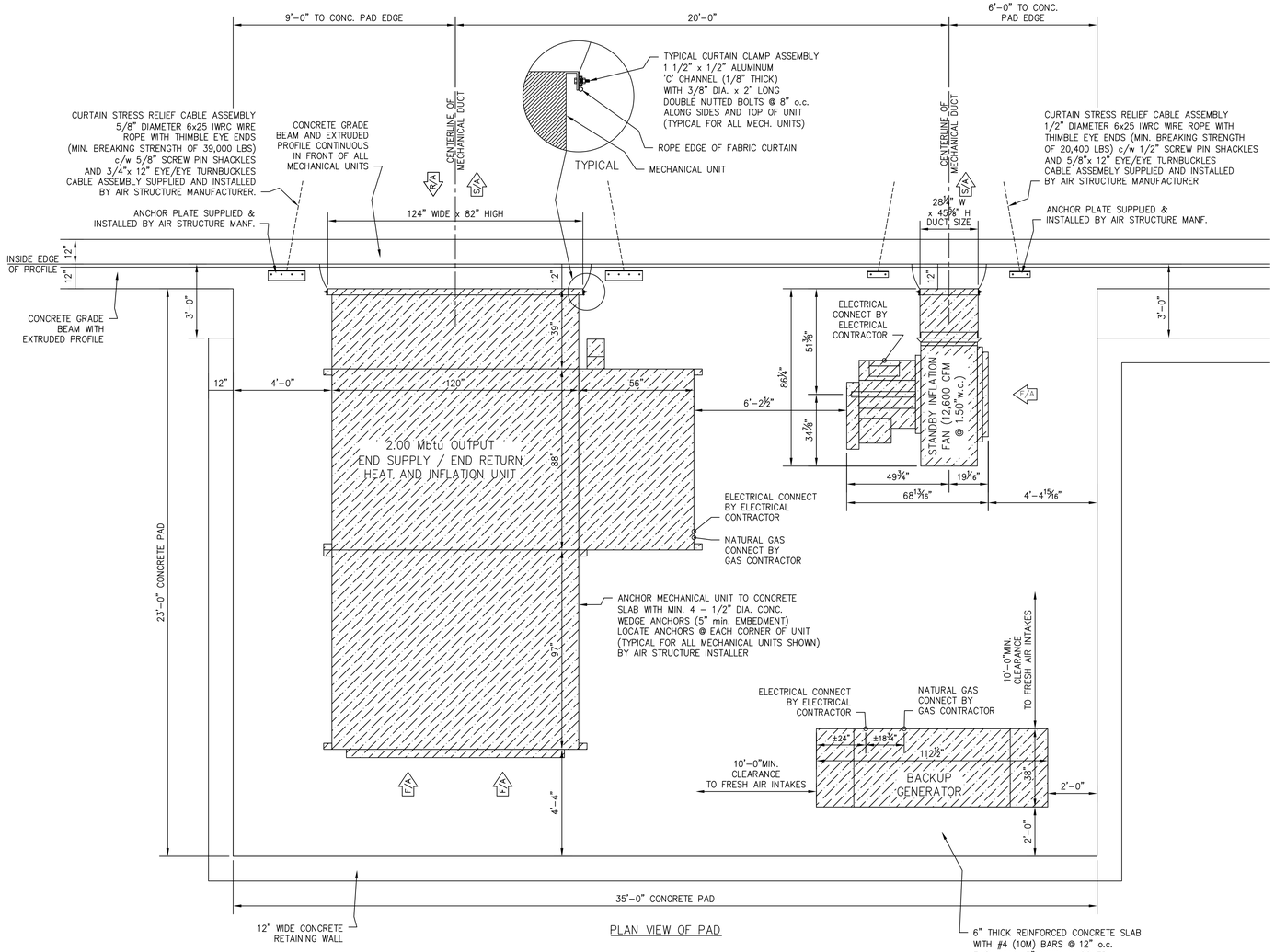
AIR SUPPORTED STRUCTURE FOR PICKLEBALL (153'-0"x 234'-0"x 46'-0")

LOCATION:
15707 SW WALKER RD,
BEAVERTON, OR 97006

DRAWING:

BUILDING CONNECTION DETAILS (2)

PROJECT NORTH:	DRN BY:	C.J.S.
	REVIEWED BY:	A.R.R.
	DATE:	NOV. 17, 2025
	SCALE:	NOT TO SCALE
PLAN NORTH:	PROJ. #:	24-018D
	DRAWING #:	AS7 REV. 01



PLAN VIEW OF PAD

1/AS8 DETAILS OF MECHANICAL PAD
SCALE 3/8"=1'-0"

(SEE DETAIL 1/AS9 FOR ADDITIONAL MECHANICAL DETAILS)

1	20/11/2025	SEE PAGE C-1 FOR REVISION NOTES
NO:	DATE: (DD/MM/YY)	REVISION:

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CLIENT:

TUALATIN HILLS
HMT PICKELBALL FACILITY

CLIENT ACCEPTANCE SIGNATURE:

DATE ACCEPTED:

PROJECT:

AIR SUPPORTED STRUCTURE FOR PICKLEBALL (153'-0"x 234'-0"x 46'-0")

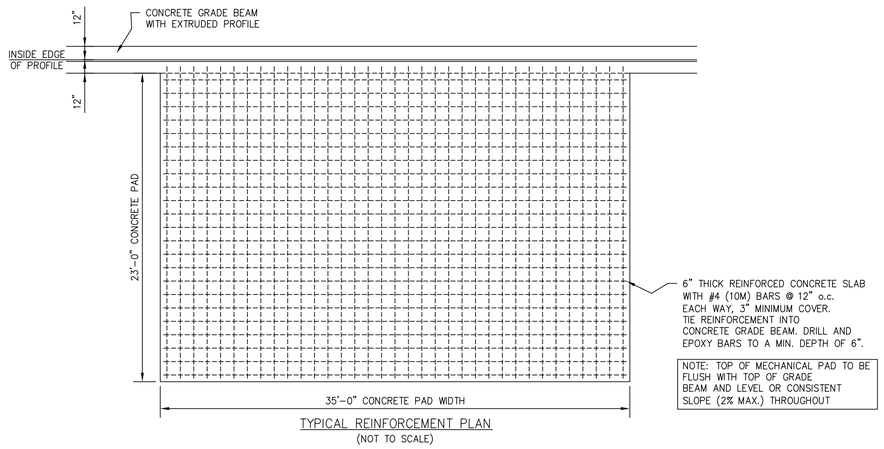
LOCATION:
15707 SW WALKER RD,
BEAVERTON, OR 97006

DRAWING:

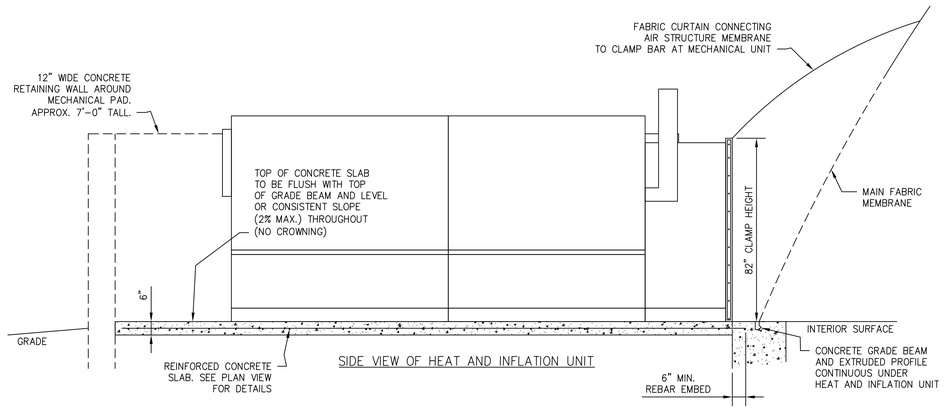
MECHANICAL PAD DETAILS (1)

PROJECT NORTH:	DRN BY:	C.J.S.
	REVIEWED BY:	A.R.R.
	DATE:	NOV. 17, 2025
	SCALE:	NOT TO SCALE
PLAN NORTH:	PROJ. #:	24-018D
	DRAWING #:	AS8 REV. 01

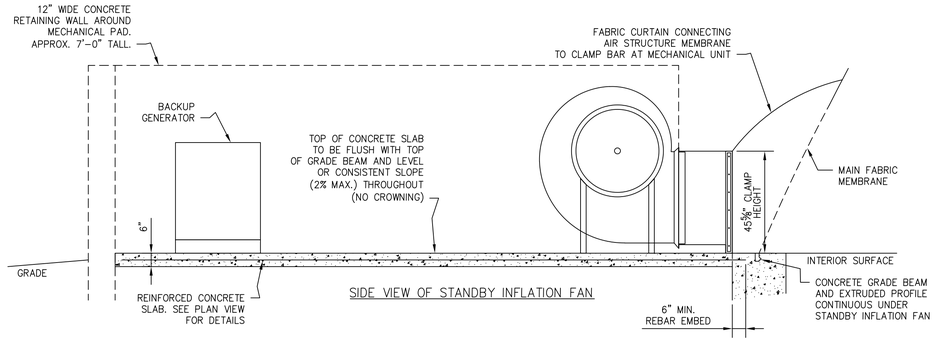
Title Block – Construction Drawings and Cutting Patterns: F-3-03 – Rev. 1 – April 02



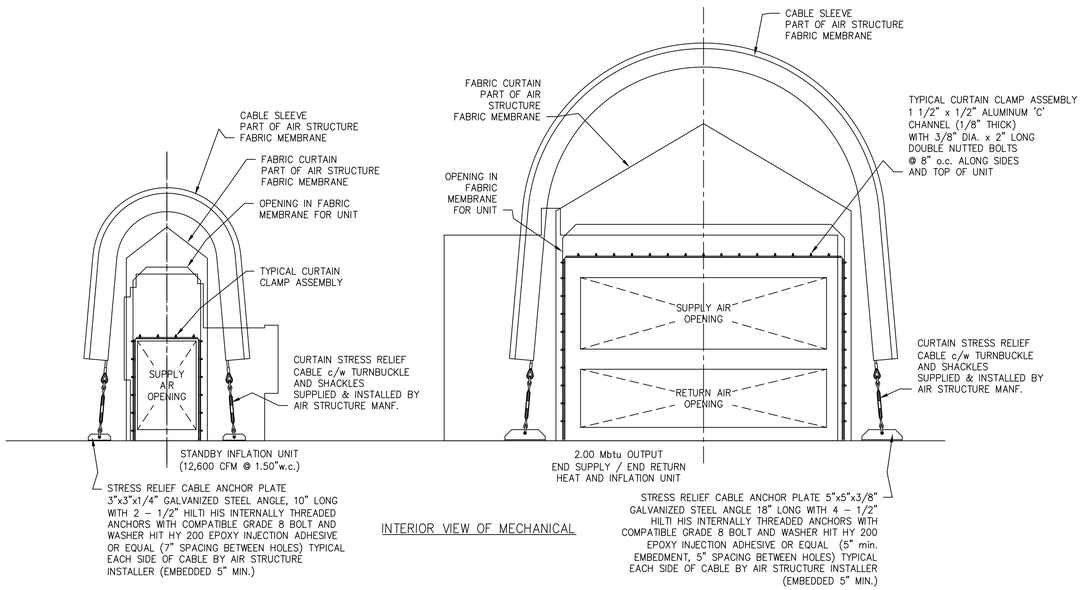
TYPICAL REINFORCEMENT PLAN
(NOT TO SCALE)



SIDE VIEW OF HEAT AND INFLATION UNIT



SIDE VIEW OF STANDBY INFLATION FAN



INTERIOR VIEW OF MECHANICAL

1/AS9 DETAILS OF MECHANICAL PAD
SCALE 3/8"=1'-0"

(SEE DETAIL 1/AS8 FOR ADDITIONAL MECHANICAL DETAILS)

NO:	DATE: (DD/MM/YY)	REVISION:
1	20/11/2025	SEE PAGE C-1 FOR REVISION NOTES

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17/11/25

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Creative Space Solutions

CLIENT:

TUALATIN HILLS
HMT PICKELBALL FACILITY

CLIENT ACCEPTANCE SIGNATURE:

DATE ACCEPTED:

PROJECT:

AIR SUPPORTED STRUCTURE FOR PICKLEBALL (153'-0"x 234'-0"x 46'-0")

LOCATION:
15707 SW WALKER RD,
BEAVERTON, OR 97006

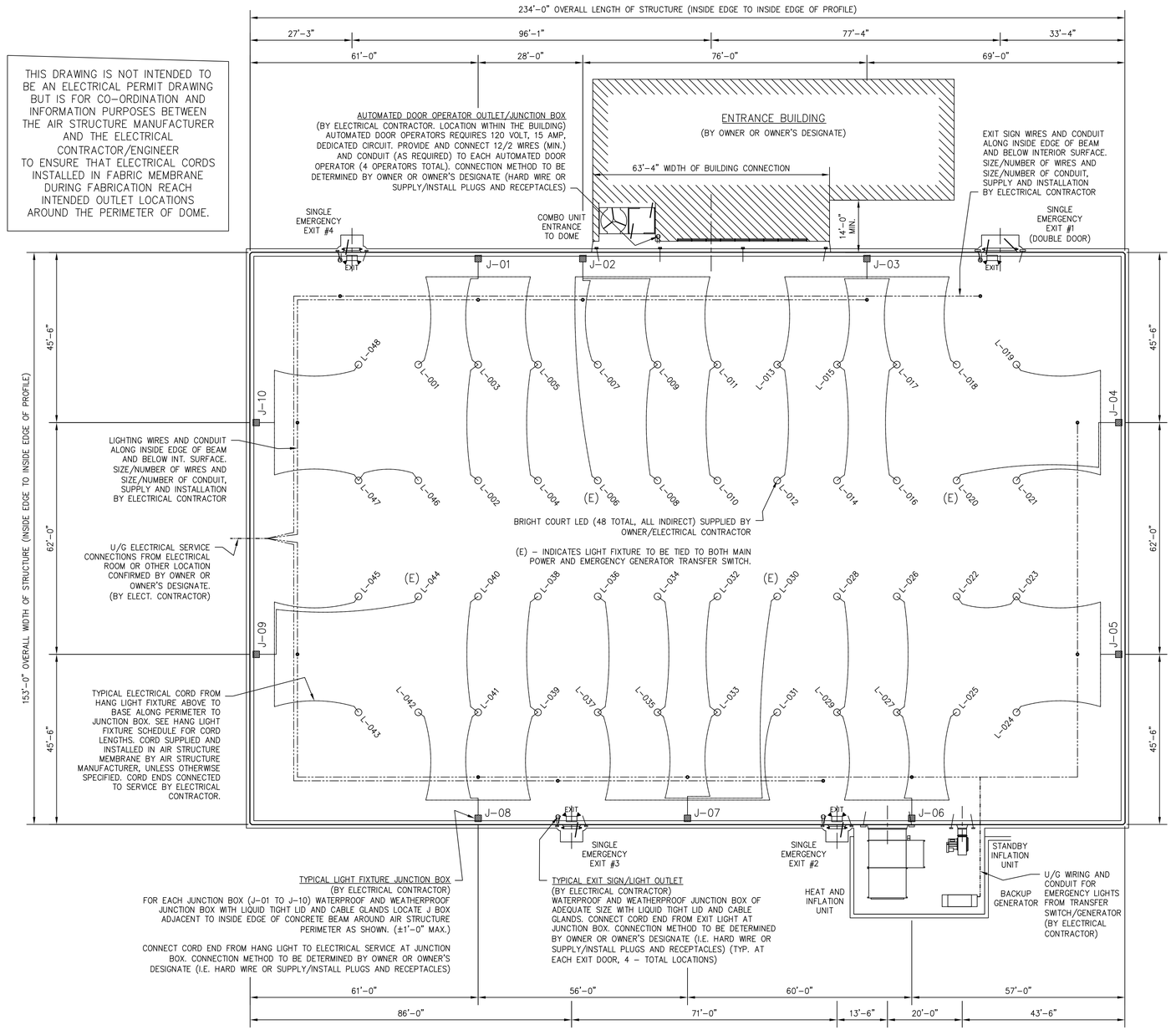
DRAWING:

MECHANICAL PAD DETAILS (2)

PROJECT NORTH:	DRN BY:	C.J.S.
	REVIEWED BY:	A.R.R.
	DATE:	NOV. 17, 2025
	SCALE:	NOT TO SCALE
PLAN NORTH:	PROJ. #:	24-018D
	DRAWING #:	AS9
		REV. 01

Title Block – Construction Drawings and Cutting Patterns: F-J-03 – Rev. 1 – April 02

THIS DRAWING IS NOT INTENDED TO BE AN ELECTRICAL PERMIT DRAWING BUT IS FOR CO-ORDINATION AND INFORMATION PURPOSES BETWEEN THE AIR STRUCTURE MANUFACTURER AND THE ELECTRICAL CONTRACTOR/ENGINEER TO ENSURE THAT ELECTRICAL CORDS INSTALLED IN FABRIC MEMBRANE DURING FABRICATION REACH INTENDED OUTLET LOCATIONS AROUND THE PERIMETER OF DOME.



1 / AS10 AIR STRUCTURE LIGHTING PLAN LAYOUT (OUTLET LOCATIONS)
SCALE 1/16"=1'-0"

NO:	DATE: (DD/MM/YY)	REVISION:
1	20/11/2025	SEE PAGE C-1 FOR REVISION NOTES

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A division of The Farley Group
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Email: mail@thefarleygroup.com
Creative Space Solutions

CLIENT:
TUALATIN HILLS
HMT PICKELBALL FACILITY

CLIENT ACCEPTANCE SIGNATURE:

DATE ACCEPTED:

PROJECT:
AIR SUPPORTED STRUCTURE FOR PICKLEBALL (153'-0"x 234'-0"x 46'-0")

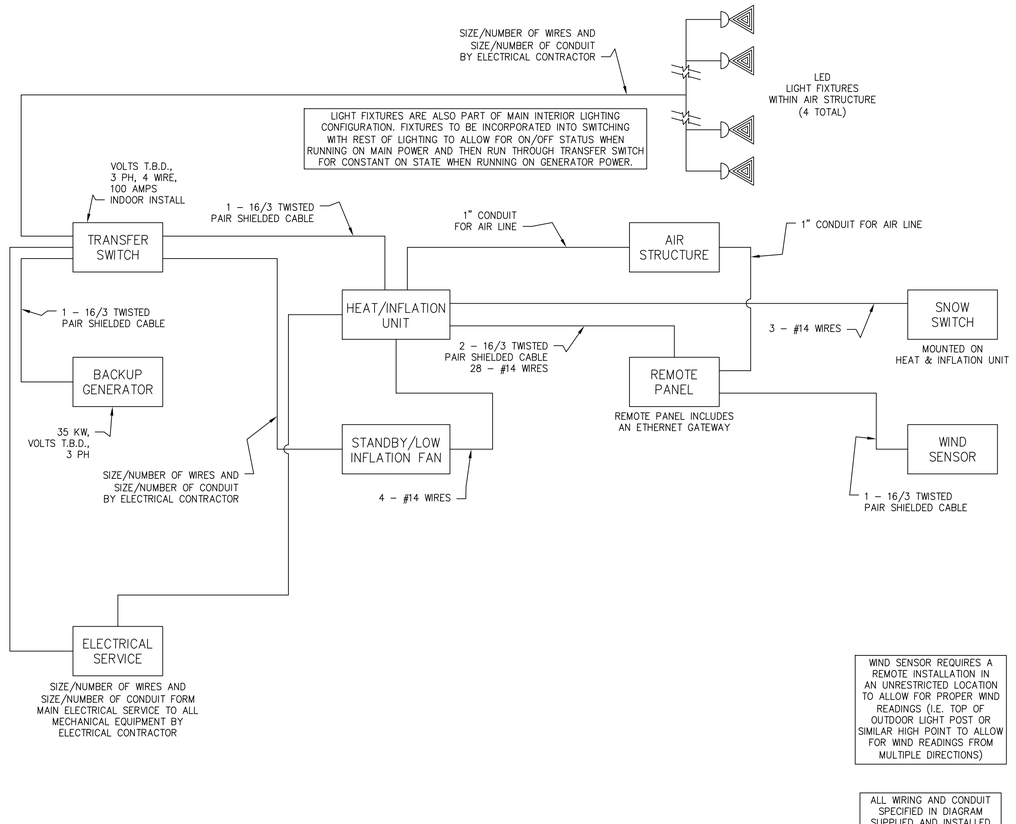
LOCATION:
15707 SW WALKER RD,
BEAVERTON, OR 97006

DRAWING:
OUTLET LOCATION PLAN

PROJECT NORTH:	DRN BY: C.J.S.
	REVIEWED BY: A.R.R.
	DATE: NOV. 17, 2025
	SCALE: NOT TO SCALE
PLAN NORTH:	PROJ. #: 24-018D
	DRAWING #: AS10 REV. 01

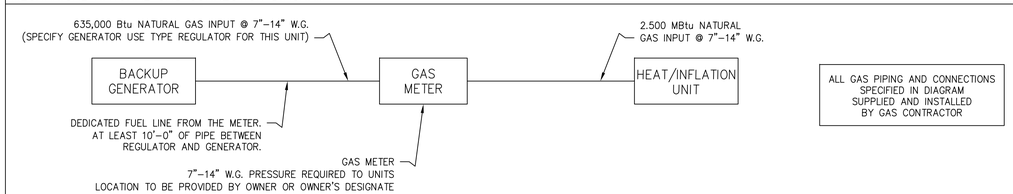
Title Block – Construction Drawings and Cutting Patterns: F-3-03 – Rev. 1 – April 02

MECHANICAL CONTROL WIRING AND CONDUIT DIAGRAM



NOTE: REMOTE PANEL LOCATION REQUIRES CONFIRMATION BY OWNER: ADDITIONAL SIGNAL ENHANCERS FOR DAMPER CONTROL AND AN ADDITIONAL 16/3 TWISTED PAIR SHIELDED CABLE FOR EACH HEAT AND INFLATION UNIT MAY BE REQUIRED DEPENDING ON DISTANCE BETWEEN REMOTE PANEL AND MECHANICAL UNITS.

MECHANICAL NATURAL GAS CONNECTION DIAGRAM



1	20/11/2025	SEE PAGE C-1 FOR REVISION NOTES
NO:	DATE: (DD/MM/YY)	REVISION:

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A / B — A —— DETAIL NUMBER
B —— SHEET WHERE DETAILED

THE FARLEY GROUP
Farley Manufacturing Inc.
A division of The Farley Group
6 Kerr Crescent
Puslinch, ON, Canada N0B 2J0
Phone: 1–888–445–3223
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Creative Space Solutions

CLIENT:

TUALATIN HILLS
HMT PICKELBALL FACILITY

CLIENT ACCEPTANCE SIGNATURE:

DATE ACCEPTED:

PROJECT:

AIR SUPPORTED STRUCTURE FOR PICKLEBALL (153'–0"x 234'–0"x 46'–0")

LOCATION:
15707 SW WALKER RD,
BEAVERTON, OR 97006

DRAWING:

MECHANICAL AND ELECTRICAL DIAGRAMS

PROJECT NORTH:	DRN BY:	C.J.S.
	REVIEWED BY:	A.R.R.
	DATE:	NOV. 17, 2025
	SCALE:	
PLAN NORTH:	PROJ. #:	24–018D
	DRAWING #:	AS11 REV. 01

Title Block – Construction Drawings and Cutting Patterns: F-3-03 – Rev. 1 – April 02

AIR STRUCTURE COMPONENT DATA (TYP.)

COMPONENTS SUPPLIED BY AIR STRUCTURE SUPPLIER, UNLESS OTHERWISE SPECIFIED

PRIMARY HEAT AND INFLATION UNIT		(DATA SHOWN IS FOR EACH UNIT)
NATURAL GAS DATA	INPUT	2.500 MBtu
	OUTPUT	2.000 MBtu
	PRESSURE	7"–14" W.G.
ELECTRICAL DATA	MAIN SUPPLY	VOLTS T.B.D.
	OTHER	1 – 120 VOLT, SINGLE ø, 15 AMPS GFI RECEPTACLE FOR SERVICE OUTLET AND UNIT LIGHTING

STANDBY AND LOW PRESSURE INFLATION UNIT		BI–365 c/w 7.5 HP MOTOR
ELECTRICAL DATA	MAIN SUPPLY	VOLTS T.B.D.

BACKUP GENERATOR WITH 1 TRANSFER SWITCH		(LIFE SAFETY FOR STANDBY FAN & LIGHTS)
TYPE	SIZE	35 KW, VOLTS T.B.D., 3PH, 60HZ
NATURAL GAS DATA	INPUT	635 CUBIC FEET/HOUR
	PRESSURE	7"–14" W.G. (SPECIFY GENERATOR USE TYPE REGULATOR)
ELECTRICAL DATA	OTHER	1 – 208 VOLT, SINGLE ø CIRCUIT, 60 AMPS FOR BLOCK HEATER, BATTERY CHARGER AND LIFE SAFETY COMPONENTS

EMERGENCY EXIT SIGN LIGHTING		(DATA SHOWN IS FOR EACH UNIT)
ELECTRICAL DATA	FIXTURE TYPE	32 WATT COMBINATION EMERGENCY LIGHT/SIGN WITH BATTERY
	MAIN SUPPLY	120 VOLT, SINGLE ø, 15 AMP, DEDICATED CIRCUIT

PED. AIRLOCK AUTOMATED DOOR OPERATORS		(DATA SHOWN IS FOR EACH UNIT)
ELECTRICAL DATA	FIXTURE TYPE	BESAM TYPE SW200i AUTOMATED DOOR OPERATOR
	MAIN SUPPLY	120 VOLT, 1PH, 60 HZ, 20 AMP DEDICATED CIRCUIT FOR EACH OPERATOR

MISCELLANEOUS	
OTHER	THERE SHOULD BE CONSIDERATION TAKEN FOR ANY ADDITIONAL POWER REQUIREMENTS FOR THE DOME IE; SCORE BOARDS, ELECTRICAL OUTLETS, SUMP PUMPS, ETC. PLEASE NOTE THAT IF NATURAL GAS OR PROPANE ARE NOT AVAILABLE THE PROPOSED LOW INFLATION STANDBY UNITS WILL HAVE TO BE MODIFIED AND OIL FIRED GENERATORS WILL BE REQUIRED TO PROVIDE EMERGENCY POWER.

ELECTRICAL LEGEND

A	FLUORESCENT LIGHT FIXTURE TYPE AS INDICATED (N/L DENOTES NIGHT LIGHT)	EXIT	EMERGENCY EXIT SIGN. "EXIT" DENOTES FACE, ARROWS DENOTE DIRECTION
	CEILING OR WALL MOUNTED LIGHT FIXTURE TYPE AS INDICATED		SURFACE MOUNTED SINGLE AND TWIN EMERGENCY LIGHTING FIXTURE
EXIT	COMBINATION EMERGENCY LIGHT, EXIT SIGN & BATTERY UNIT. ARROWS DENOTE DIRECTION	$	SINGLE POLE SWITCH (3–3 WAY, 4–4 WAY, P–PILOT LIGHT, K–KEYED, M–MOTOR RATED)
	COMBINATION EMERGENCY LIGHTING AND BATTERY UNIT	A–1–2	DENOTES PANEL 'A', CIRCUIT No.1 SWITCH No.2
	15A–120 VOLT DUPLEX WALL RECEPTACLE (20A–DENOTES 20A 'T' TYPE RECEPTACLE)		15A–120 VOLT DUPLEX WALL RECEPTACLE MOUNTED ABOVE COUNTER (S–SPLIT)

HANG LIGHT FIXTURE SCHEDULE

LIGHT FIXTURE	OUTLET LOCATION	LIGHT TYPE	ARC LENGTH TO GROUND	LENGTH ALONG BEAM	TOTAL CORD LENGTH
L–001	J – 01	Hanging, Indirect	48 ft – 0 in	19 ft – 0 in	67 ft – 0 in
L–002	J – 01	Hanging, Indirect	37 ft – 0 in	3 ft – 0 in	40 ft – 0 in
L–003	J – 01	Hanging, Indirect	48 ft – 0 in	3 ft – 0 in	51 ft – 0 in
L–004	J – 01	Hanging, Indirect	37 ft – 0 in	3 ft – 0 in	40 ft – 0 in
L–005	J – 01	Hanging, Indirect	48 ft – 0 in	19 ft – 0 in	67 ft – 0 in
(E) L–006	J – 02	Hanging, Indirect	82 ft – 0 in	7 ft – 0 in	89 ft – 0 in
L–007	J – 02	Hanging, Indirect	48 ft – 0 in	7 ft – 0 in	55 ft – 0 in
L–008	J – 02	Hanging, Indirect	37 ft – 0 in	3 ft – 0 in	40 ft – 0 in
L–009	J – 02	Hanging, Indirect	48 ft – 0 in	23 ft – 0 in	71 ft – 0 in
L–010	J – 02	Hanging, Indirect	37 ft – 0 in	3 ft – 0 in	40 ft – 0 in
L–011	J – 02	Hanging, Indirect	48 ft – 0 in	39 ft – 0 in	87 ft – 0 in
L–012	J – 03	Hanging, Indirect	37 ft – 0 in	3 ft – 0 in	40 ft – 0 in
L–013	J – 03	Hanging, Indirect	48 ft – 0 in	27 ft – 0 in	75 ft – 0 in
L–014	J – 03	Hanging, Indirect	37 ft – 0 in	3 ft – 0 in	40 ft – 0 in
L–015	J – 03	Hanging, Indirect	48 ft – 0 in	11 ft – 0 in	59 ft – 0 in
L–016	J – 03	Hanging, Indirect	37 ft – 0 in	3 ft – 0 in	40 ft – 0 in
L–017	J – 03	Hanging, Indirect	48 ft – 0 in	11 ft – 0 in	59 ft – 0 in
L–018	J – 03	Hanging, Indirect	48 ft – 0 in	27 ft – 0 in	75 ft – 0 in
L–019	J – 04	Hanging, Indirect	50 ft – 0 in	19 ft – 0 in	69 ft – 0 in
(E) L–020	J – 04	Hanging, Indirect	68 ft – 0 in	19 ft – 0 in	87 ft – 0 in
L–021	J – 04	Hanging, Indirect	50 ft – 0 in	19 ft – 0 in	69 ft – 0 in
L–022	J – 05	Hanging, Indirect	21 ft – 0 in	3 ft – 0 in	24 ft – 0 in
L–023	J – 05	Hanging, Indirect	50 ft – 0 in	19 ft – 0 in	69 ft – 0 in
L–024	J – 05	Hanging, Indirect	50 ft – 0 in	19 ft – 0 in	69 ft – 0 in
L–025	J – 06	Hanging, Indirect	48 ft – 0 in	15 ft – 0 in	63 ft – 0 in
L–026	J – 06	Hanging, Indirect	37 ft – 0 in	3 ft – 0 in	40 ft – 0 in
L–027	J – 06	Hanging, Indirect	48 ft – 0 in	7 ft – 0 in	55 ft – 0 in
L–028	J – 06	Hanging, Indirect	37 ft – 0 in	3 ft – 0 in	40 ft – 0 in
L–029	J – 06	Hanging, Indirect	48 ft – 0 in	23 ft – 0 in	71 ft – 0 in
(E) L–030	J – 07	Hanging, Indirect	82 ft – 0 in	27 ft – 0 in	109 ft – 0 in
L–031	J – 07	Hanging, Indirect	48 ft – 0 in	27 ft – 0 in	75 ft – 0 in
L–032	J – 07	Hanging, Indirect	37 ft – 0 in	3 ft – 0 in	40 ft – 0 in
L–033	J – 07	Hanging, Indirect	48 ft – 0 in	11 ft – 0 in	59 ft – 0 in
L–034	J – 07	Hanging, Indirect	37 ft – 0 in	3 ft – 0 in	40 ft – 0 in
L–035	J – 07	Hanging, Indirect	48 ft – 0 in	11 ft – 0 in	59 ft – 0 in
L–036	J – 07	Hanging, Indirect	37 ft – 0 in	3 ft – 0 in	40 ft – 0 in
L–037	J – 07	Hanging, Indirect	48 ft – 0 in	27 ft – 0 in	75 ft – 0 in
L–038	J – 08	Hanging, Indirect	37 ft – 0 in	3 ft – 0 in	40 ft – 0 in
L–039	J – 08	Hanging, Indirect	48 ft – 0 in	19 ft – 0 in	67 ft – 0 in
L–040	J – 08	Hanging, Indirect	37 ft – 0 in	3 ft – 0 in	40 ft – 0 in
L–041	J – 08	Hanging, Indirect	48 ft – 0 in	3 ft – 0 in	51 ft – 0 in
L–042	J – 08	Hanging, Indirect	48 ft – 0 in	19 ft – 0 in	67 ft – 0 in
L–043	J – 09	Hanging, Indirect	50 ft – 0 in	19 ft – 0 in	69 ft – 0 in
(E) L–044	J – 09	Hanging, Indirect	68 ft – 0 in	19 ft – 0 in	87 ft – 0 in
L–045	J – 09	Hanging, Indirect	50 ft – 0 in	19 ft – 0 in	69 ft – 0 in
L–046	J – 10	Hanging, Indirect	21 ft – 0 in	3 ft – 0 in	24 ft – 0 in
L–047	J – 10	Hanging, Indirect	50 ft – 0 in	19 ft – 0 in	69 ft – 0 in
L–048	J – 10	Hanging, Indirect	50 ft – 0 in	19 ft – 0 in	69 ft – 0 in

NOTE – UNLESS INDICATED, HANG LIGHT FIXTURE PATCHES CORD ARE INSTALLED DURING MEMBRANE FABRICATION AT THE FACTORY (ALL ELECTRICAL CORDS ARE FIELD INSTALLED)
* – INDICATES FIELD INSTALLED PATCH FOR LIGHT FIXTURE

TOTAL LENGTH OF CORDS = 2840 ft – 0 in

ELECTRICAL NOTES:

PLEASE REFER TO AIR STRUCTURE DETAILS DRAWINGS ('AS#' SERIES) FOR ADDITIONAL ELECTRICAL REQUIREMENTS FOR LIGHT FIXTURES, EXIT DOORS, VEHICLE AIRLOCKS, AND MECHANICAL.

1.) ELECTRICAL CORD FROM LIGHT FIXTURES IS 14/3 SOOW 'ROMEX' TYPE AND SUPPLIED BY AIR STRUCTURE MANUFACTURER WITH NO END TERMINATIONS AT JUNCTION BOX LOCATIONS SHOWN ON PLAN. CORD LENGTHS PROVIDED ARE SHOWN ON LIGHT FIXTURE SCHEDULE AND ASSUME JUNCTION BOXES/BALLASTS ARE LOCATED WITHIN ±12" OF JUNCTION BOX LOCATION ALONG THE PERIMETER AS SHOWN ON THE ELECTRICAL PLAN.

2.) ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL JUNCTION BOXES WITH LIQUID TIGHT LID AND CABLE GLANDS ADJACENT TO THE INSIDE EDGE OF GRADE BEAM AT LOCATIONS SHOWN ON AIR STRUCTURE DETAILS AND CONNECT ELECTRICAL CORD ENDS AS OUTLINED IN DETAILS. JUNCTION BOXES THAT ARE INSTALLED ABOVE THE INTERIOR SURFACE OR ABOVE TOP OF CONCRETE SHALL HAVE NO SHARP CORNERS/EDGES OR INCLUDE PROTECTION TO PREVENT RISK OF DAMAGE TO AIR STRUCTURE MEMBRANE FABRIC.

3.) ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL PLUGS, RECEPTACLES AND ELECTRICAL CORDS, AS INDICATED IN THE AIR STRUCTURE DETAILS OR DIRECTLY CONNECT CORDS (HARD–WIRE) AS DETERMINED BY OWNER OR OWNER'S DESIGNATE. THIS INCLUDES ALL CORD CONNECTIONS AT REMOTE BALLASTS AND FROM BALLASTS TO JUNCTION BOXES. CORD ENDS FROM REMOTE BALLASTS ARE FED THROUGH LIQUID TIGHT LID WITH CABLE GLANDS INTO JUNCTION BOX.

4.) ALL WORK TO BE IN ACCORDANCE WITH SITE SERVICE VOLTAGE AND LOCAL CODES AND AUTHORITIES HAVING JURISDICTION.

5.) WHERE WIRING IS RUN IN CONDUIT CAST INTO THE PERIMETER CONCRETE GRADE BEAM OR RUNNING THROUGH BEAM AT A PERPENDICULAR ANGLE, A MINIMUM 24 INCH CLEARANCE MUST BE PROVIDED BELOW FINISHED CONCRETE SURFACE TO AVOID CONTACT WITH ANCHOR BOLTS AND ALUMINUM PROFILE.

LIGHT FIXTURE JUNCTION BOX SCHEDULE

JUNCTION BOX	OUTLETS REQ. AT JUNCTION BOX
J–01	3 FROM FIXTURES
J–02	4 FROM FIXTURES
J–03	4 FROM FIXTURES
J–04	3 FROM FIXTURES
J–05	2 FROM FIXTURES
J–06	3 FROM FIXTURES
J–07	5 FROM FIXTURES
J–08	3 FROM FIXTURES
J–09	3 FROM FIXTURES
J–10	2 FROM FIXTURES

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CLIENT:

TUALATIN HILLS
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CLIENT ACCEPTANCE SIGNATURE:

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AIR SUPPORTED STRUCTURE
FOR PICKLEBALL
(153'–0"x 234'–0"x 46'–0")

LOCATION:
15707 SW WALKER RD,
BEAVERTON, OR 97006

DRAWING:

MECHANICAL AND
ELECTRICAL NOTES

PROJECT NORTH:	DRN BY:	C.J.S.
	REVIEWED BY:	A.R.R.
	DATE:	NOV. 17, 2025
	SCALE:	
PLAN NORTH:	PROJ. #:	24–018D
	DRAWING #:	AS12 REV. 01

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