

CITY OF FEDERAL WAY JOINT OPERATIONS & MAINTENANCE FACILITY

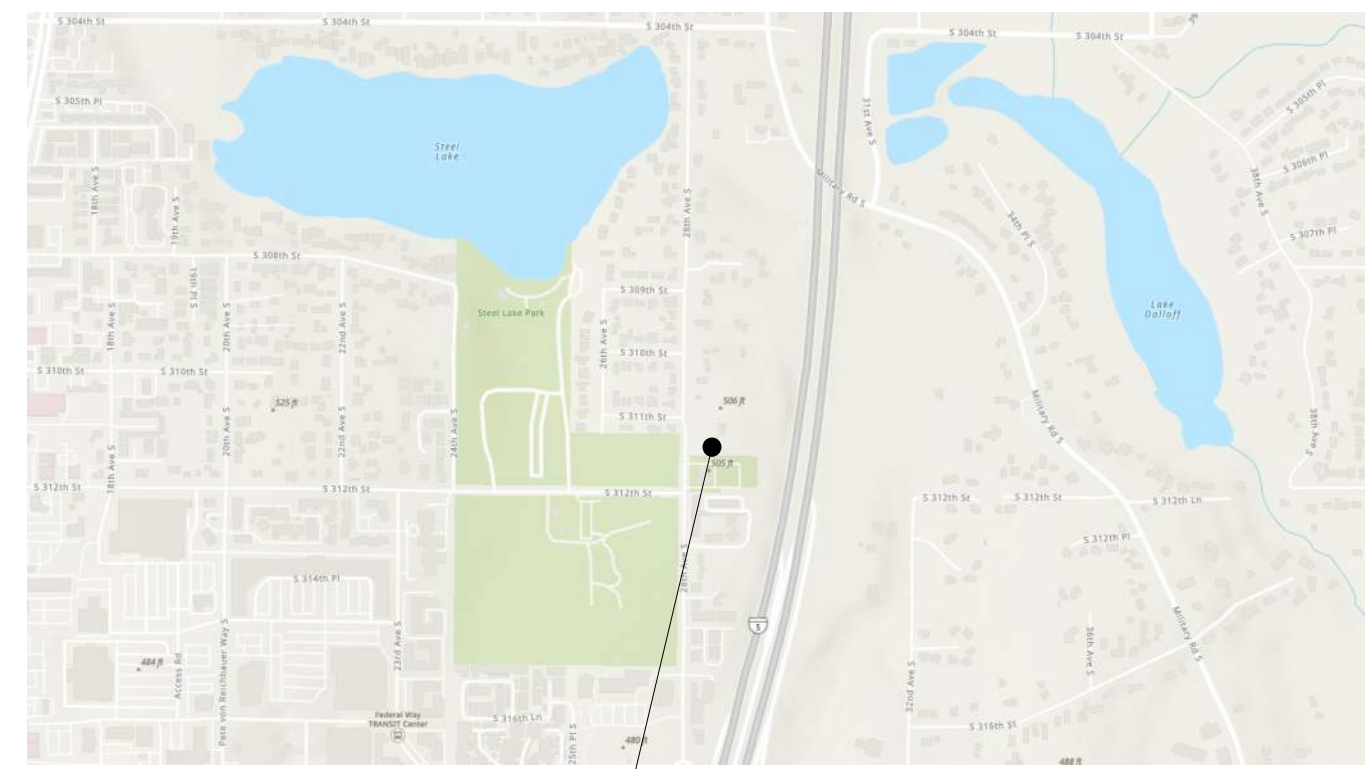


31016 28TH AVE S
FEDERAL WAY, WA 98003
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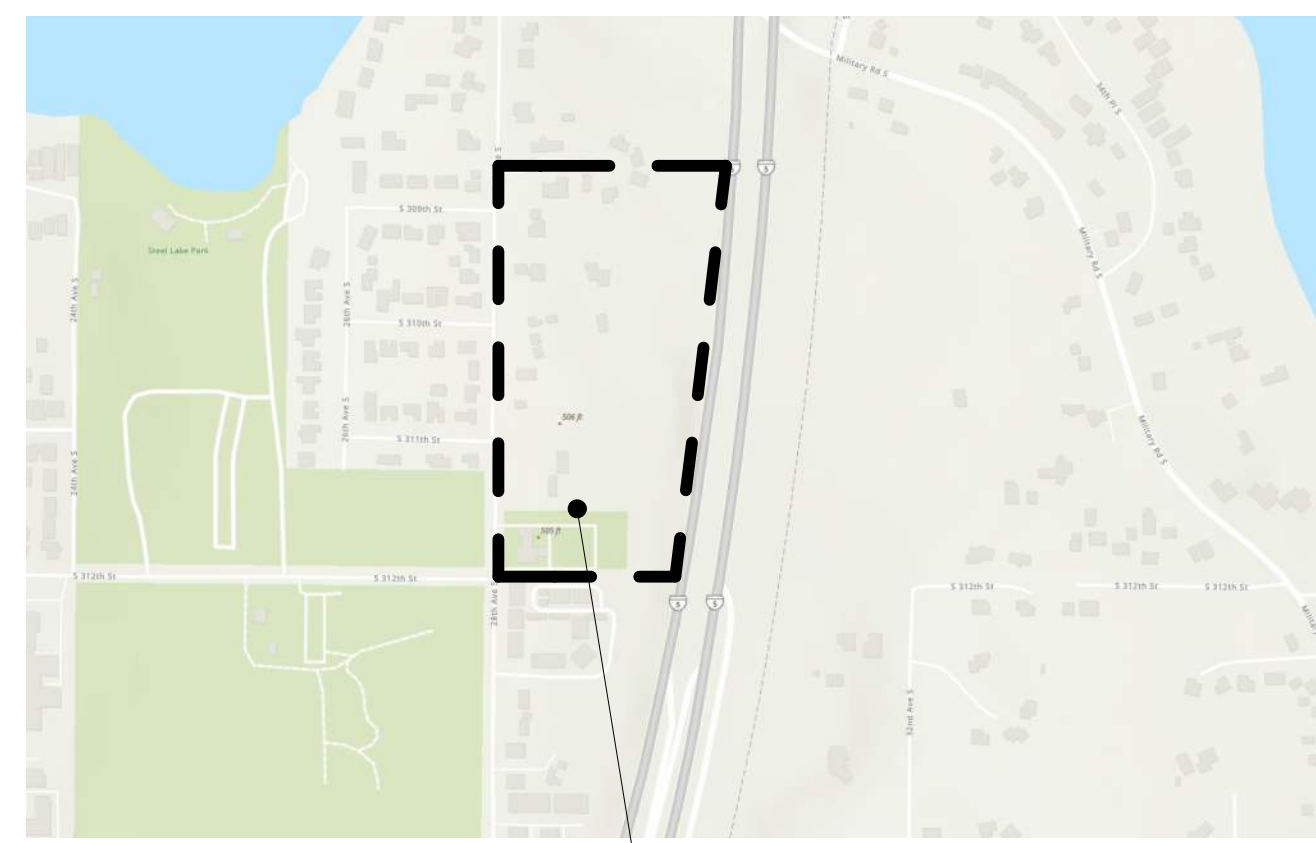
VOL. 0 GENERAL & SITE DEVELOPMENT SET

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AREA MAP



VICINITY MAP



ZONING INFORMATION

GOVERNING CODE	CITY OF FEDERAL WAY MUNICIPAL CODE TITLE 19 - ZONING
PARCEL NUMBER	092004 - 9026 998, 9250 9099, 9170 9085, 915, 9095, 9240, 9234, 9329, 9084, 9075, TRCT, 933, 9314.
ZONING CHAPTER #	RS 7.2 - SINGLE FAMILY ZONES - 1 UNIT/7,200 SQ FT
LAND USE CHAPTER #	PERMIT USES
OFF STREET PARKING STALLS CHAPTER #	REFER TO SITE PLAN FOR PARKING COUNT PROVIDED.

SHEET INDEX

VOL. I - OPERATIONS BUILDING	VOL. II - FLEET & MAINTENANCE
ARCHITECTURAL DRAWINGS	ARCHITECTURAL DRAWINGS
AA002 VOLUME I SUBCOVER SHEET	AB002 VOLUME II SUBCOVER SHEET
AA003 PICTORIAL VIEWS	AB003 PICTORIAL VIEWS
AA004 CODE INFORMATION	AB004 CODE INFORMATION
AA005 BLDG ASSEMBLY LEGEND	AB005 BLDG ASSEMBLY LEGEND
AA006 BLDG THERMAL ENVELOPE LEGEND	AB006 BLDG THERMAL ENVELOPE LEGEND
AA007 COLORS AND MATERIALS SCHEDULE	AB007 COLORS AND MATERIALS SCHEDULE
AA008 FOUNDATION PLAN	AB008 COMPOSITE FLOOR PLAN
AA009 FLOOR PLAN	AB009 COMPOSITE FLOOR PLAN - UPPER WALLS
AA010 ROOF PLAN	AB010 PARTIAL FLOOR PLAN
AA011 REFLECTED CEILING PLAN	AB011 PARTIAL FLOOR PLAN
AA012 INTERIOR FINISHES PLAN	AB012 ROOF PLAN
AA013 ENLARGED FLOOR PLAN	AB013 ROOF PLAN
AA014 FIXTURE, FURNITURE AND EQUIPMENT PLAN	AB014 CEILING PLAN
AA015 SCHEDULES	AB015 ENLARGED FLOOR PLANS
AA016 EXTERIOR ELEVATIONS	AB016 SCHEDULES
AA017 BUILDING SECTIONS	AB017 EXTERIOR ELEVATIONS
AA018 WALL SECTIONS	AB018 EXTERIOR ELEVATIONS
AA019 STANDARD CASEWORK AND FIXTURES	AB019 BUILDING SECTIONS
AA020 INTERIOR ELEVATIONS	AB020 BUILDING SECTIONS
AA021 INTERIOR ELEVATIONS	AB021 STANDARD CASEWORK AND FIXTURES
AA022 INTERIOR ELEVATIONS	AB022 INTERIOR ELEVATIONS
AA023 INTERIOR ELEVATIONS	AB023 INTERIOR ELEVATIONS
AA024 INTERIOR ELEVATIONS	AB024 INTERIOR ELEVATIONS
AA025 INTERIOR ELEVATIONS	AB025 INTERIOR ELEVATIONS
AA026 INTERIOR ELEVATIONS	AB026 INTERIOR ELEVATIONS
AA027 EXTERIOR DETAILS	AB027 EXTERIOR DETAILS
AA028 EXTERIOR DETAILS	AB028 EXTERIOR DETAILS
AA029 EXTERIOR DETAILS	AB029 EXTERIOR DETAILS

PROJECT INFORMATION

SITE ADDRESS	3016 28TH AVE. SOUTH FEDERAL WAY, WA 98003
SITE ADDRESS	3016 28TH AVE. SOUTH FEDERAL WAY, WA 98003



SHEET INDEX

VOL. 0 - GENERAL & SITE DEVELOPMENT SET

GENERAL DRAWINGS	SITE ELECTRICAL
G001 COVER SHEET	E001 ELECTRICAL LEGEND, GENERAL NOTES, ABBREVIATIONS, AND DRAWING INDEX
G002 ENLARGED SITE PLAN	E002 ELECTRICAL SCHEDULES AND NOTES
G003 ENLARGED SITE PLAN	E001 ELECTRICAL SITE PLAN - SOUTH
G004 SITE DETAILS	E002 ELECTRICAL SITE PLAN - NORTH
G005 SITE DETAILS	E003 ELECTRICAL DETAILS
G006 STAR PLANS AND DETAILS	E401 ELECTRICAL ONE-LINE DIAGRAM
G007 ART - SECURITY MALL DETAILS	E402 ELECTRICAL SERVICE DETAILS
G008 ABBREVIATIONS AND NOTES	E403 PANEL SCHEDULES
G009 LEGENDS AND NOTES	
G010 COLORS AND MATERIAL SCHEDULE	
CIVIL DRAWINGS	SITE TELECOMMUNICATIONS DRAWINGS
C100 COVER SHEET	T001 TELECOM LEGEND, GENERAL NOTES, ABBREVIATIONS, AND DRAWING INDEX
C101 TESC AND DEMOLITION PLAN	T002 TELECOM AND SECURITY ROUGH-IN SCHEDULES
C102 TESC AND DEMOLITION PLAN	T101 TELECOM SITE PLAN - NORTH
C103 TESC AND DEMOLITION PLAN	T102 TELECOM SITE PLAN - SOUTH
C104 TESC AND DEMOLITION PLAN	T801 TELECOM DETAILS
C105 TESC AND DEMOLITION NOTES AND DETAILS	T802 TELECOM DETAILS
C106 TESC AND DEMOLITION NOTES AND DETAILS	T901 TELECOM ONE-LINE DIAGRAM
C200 OVERALL GRADING AND STORM DRAINAGE PLAN	T902 SECURITY ONE-LINE DIAGRAM
C201 GRADING AND STORM DRAINAGE PLAN	
C202 GRADING AND STORM DRAINAGE PLAN	
C203 GRADING AND STORM DRAINAGE PLAN	
C204 GRADING AND STORM DRAINAGE PLAN	
C205 GRADING SECTIONS	
C206 GRADING SECTIONS	
C207 GRADING SECTIONS	
C208 OVERALL PAVING AND HORIZONTAL CONTROL PLAN	
C300 OVERALL PAVING AND HORIZONTAL CONTROL PLAN	
C301 PAVING AND HORIZONTAL CONTROL PLAN	
C302 PAVING AND HORIZONTAL CONTROL PLAN	
C303 PAVING AND HORIZONTAL CONTROL PLAN	
C304 PAVING AND HORIZONTAL CONTROL PLAN	
C305 PAVING AND HORIZONTAL CONTROL PLAN	
C306 COMPOSITE UTILITIES PLAN	
C501 NOTES AND DETAILS	
C502 NOTES AND DETAILS	
C503 NOTES AND DETAILS	
C504 NOTES AND DETAILS	
C505 NOTES AND DETAILS	
M800 WATER COVER SHEET	
M801 WATER PLAN	
M201 28th AVE S WATER PLAN AND PROFILE	
M202 28th AVE S WATER PLAN AND PROFILE	
M203 28th AVE S WATER PLAN AND PROFILE	
M802 WATER PLAN AND PROFILE	
M803 WATER PLAN AND PROFILE	
M804 WATER PLAN AND PROFILE	
M805 WATER PLAN AND PROFILE	
S5000 SENIOR COVER SHEET	
S5001 SENIOR PLAN	
S5002 SENIOR PLAN AND PROFILE	
S5003 SENIOR PLAN AND PROFILE	
S5004 SENIOR PLAN AND PROFILE	
S5005 SENIOR PLAN AND PROFILE	
S5006 SENIOR NOTES AND DETAILS	

DEFERRED SUBMITTALS

ALL DEFERRED SUBMITTALS SHALL BE SUBMITTED TO ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO SUBMITTING TO BUILDING OFFICIAL. DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. A RECORD DRAWING SET OF THE APPROVED SUBMITTAL SHALL BE SUBMITTED TO ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO COMMENCEMENT OF RELATED WORK.

PRE-ENGINEERED METAL BUILDING

PRE-ENGINEERED METAL BUILDING DRAWINGS ARE DEFERRED TO CONTRACTOR'S DESIGN-BUILD SUBMITTAL. WHICH INCLUDES SITE STRUCTURES (C, D, E, AND F). SEE SITE PLAN SHEET 6002 (VOLUME - 0) FOR ADDITIONAL INFORMATION.

AUTOMATIC SPRINKLER SYSTEM DRAWINGS

AUTOMATIC SPRINKLER SYSTEM DRAWINGS DEFERRED TO CONTRACTOR'S DESIGN-BUILD SUBMITTAL.

FIRE ALARM AND DETECTION SYSTEM DRAWINGS

FIRE ALARM AND DETECTION SYSTEM DRAWINGS DEFERRED TO CONTRACTOR'S DESIGN-BUILD SUBMITTAL.

SECURITY GATES

SECURITY GATES ACROSS FIRE DEPARTMENT ACCESS ROADS DEFERRED TO CONTRACTOR'S DESIGN-BUILD SUBMITTAL.

INDUSTRIAL ENGINEERING

IP-01	PARTIAL SITE PLAN - VEHICLE MAINTENANCE BUILDING AND FUEL STATION
IP-02	VEHICLE MAINTENANCE BUILDING - EQUIPMENT PLAN
IP-03	VEHICLE MAINTENANCE BAYS - DETAILS
IP-04	FABRICATION SHOP, FIRE REPAIR, AND WASH BAY DETAILS
IP-05	CARPENTRY SHOP & LUBE ROOM - DETAILS
IP-06	FUEL STATION TANKER AND DISPENSING EQUIPMENT PLAN
IP-07	EQUIPMENT SCHEDULE

ELECTRICAL DRAWINGS

E4001	ELECTRICAL LEGEND AND DRAWING INDEX
E4002	ELECTRICAL ABBREVIATIONS AND NOTES
E4003	ELECTRICAL SCHEDULES
E4004	ELECTRICAL SCHEDULES
E4005	MAN FLOOR LIGHTING CONTROL ZONE PLAN
E4006	MAN FLOOR LIGHTING PLAN
E4007	MAN FLOOR MECHANICAL POWER PLAN
E4008	ELECTRICAL ROOF PLAN
E4009	ELECTRICAL ENLARGED PLANS
E4010	MAN FLOOR FIRE ALARM PLAN
E4011	ELECTRICAL DETAILS
E4012	ELECTRICAL DETAILS
E4013	ELECTRICAL ONE-LINE PANEL SCHEDULES
E4014	PANEL SCHEDULES

FIRE PROTECTION DRAWINGS

FA001	FIRE PROTECTION LEGEND, GENERAL NOTES, AND DRAWING INDEX
FA002	MAN FLOOR FIRE PROTECTION PLAN
FA003	MAN FLOOR HAZARD LEVEL ZONING PLAN
FA004	FIRE PROTECTION DETAILS AND DIAGRAMS

TELECOMMUNICATIONS DRAWINGS

TA001	TELECOM LEGEND, GENERAL NOTES, ABBREVIATIONS, AND DRAWING INDEX
TA002	TELECOM AND SECURITY ROUGH-IN SCHEDULES
TA601	MAN FLOOR TELECOM PLAN
TA602	TELECOM DETAILS
TA603	TELECOM DETAILS
TA604	TELECOM DETAILS
TA605	TELECOM DETAILS
TA606	TELECOM DETAILS
TA607	SECURITY DETAILS
TA608	SECURITY ONE-LINE DIAGRAM
TA609	SECURITY ONE-LINE DIAGRAM
TA610	SECURITY ONE-LINE DIAGRAM

MECHANICAL DRAWINGS

MA001	MECHANICAL LEGEND AND DRAWING INDEX
MA002	MECHANICAL ABBREVIATIONS AND GENERAL NOTES
MA003	MECHANICAL SCHEDULES
MA004	MECHANICAL SCHEDULES
MA005	MECHANICAL SCHEDULES
MA006	HVAC VENTILATION, LOAD CALCULATIONS, AND WSEC SCHEDULES
MA007	WSEC FAN POWER ALLOWANCE CALCULATIONS
MA008	MAN FLOOR HVAC ZONE PLAN
MA009	MECHANICAL SECTIONS
MA010	MAN FLOOR HVAC PIPING PLAN
MA011	MECHANICAL SECTIONS
MA012	MECHANICAL SECTIONS
MA013	MECHANICAL CONTROL DIAGRAMS AND SEQUENCE OF OPERATIONS
MA014	MECHANICAL CONTROL DIAGRAMS AND SEQUENCE OF OPERATIONS
MA015	MECHANICAL CONTROL DIAGRAMS AND SEQUENCE OF OPERATIONS
MA016	MECHANICAL CONTROL DIAGRAMS AND SEQUENCE OF OPERATIONS
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MA018	MECHANICAL CONTROL DIAGRAMS AND SEQUENCE OF OPERATIONS
MA019	MECHANICAL CONTROL DIAGRAMS AND SEQUENCE OF OPERATIONS
MA020	MECHANICAL CONTROL DIAGRAMS AND SEQUENCE OF OPERATIONS

MECHANICAL DRAWINGS

MB001	MECHANICAL LEGEND AND DRAWING INDEX
MB002	MECHANICAL ABBREVIATIONS AND GENERAL NOTES
MB003	MECHANICAL SCHEDULES
MB004	MECHANICAL SCHEDULES
MB005	MECHANICAL SCHEDULES
MB006	HVAC VENTILATION, LOAD CALCULATIONS, AND WSEC SCHEDULES
MB007	WSEC FAN POWER ALLOWANCE CALCULATIONS
MB008	MAN FLOOR HVAC ZONE PLAN
MB009	MECHANICAL SECTIONS
MB010	MAN FLOOR HVAC PIPING PLAN
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MB012	MECHANICAL SECTIONS
MB013	MECHANICAL CONTROL DIAGRAMS AND SEQUENCE OF OPERATIONS
MB014	MECHANICAL CONTROL DIAGRAMS AND SEQUENCE OF OPERATIONS
MB015	MECHANICAL CONTROL DIAGRAMS AND SEQUENCE OF OPERATIONS
MB016	MECHANICAL CONTROL DIAGRAMS AND SEQUENCE OF OPERATIONS
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MB018	MECHANICAL CONTROL DIAGRAMS AND SEQUENCE OF OPERATIONS
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EB001	ELECTRICAL LEGEND AND DRAWING INDEX
EB002	ELECTRICAL ABBREVIATIONS AND NOTES
EB003	ELECTRICAL SCHEDULES
EB004	ELECTRICAL SCHEDULES
EB005	MAN FLOOR LIGHTING CONTROL ZONE PLAN
EB006	MAN FLOOR LIGHTING PLAN
EB007	MAN FLOOR MECHANICAL POWER PLAN
EB008	ELECTRICAL ROOF PLAN
EB009	ELECTRICAL ENLARGED PLANS
EB010	MAN FLOOR FIRE ALARM PLAN
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EB014	PANEL SCHEDULES

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FB001	FIRE PROTECTION LEGEND, GENERAL NOTES, AND DRAWING INDEX
FB002	MAN FLOOR FIRE PROTECTION PLAN
FB003	MAN FLOOR HAZARD LEVEL ZONING PLAN
FB004	FIRE PROTECTION DETAILS AND DIAGRAMS

FIRE PROTECTION DRAWINGS

FB001	FIRE PROTECTION LEGEND, GENERAL NOTES, SCHEDULES AND DRAWING INDEX
FB002	MAN FLOOR FIRE PROTECTION PLAN - SOUTH
FB003	MAN FLOOR FIRE PROTECTION PLAN - NORTH
FB004	MAN FLOOR HAZARD LEVEL ZONING PLAN - SOUTH
FB005	MAN FLOOR HAZARD LEVEL ZONING PLAN - NORTH
FB006	FIRE PROTECTION DETAILS AND DIAGRAMS

MECHANICAL DRAWINGS

MB001	MECHANICAL LEGEND AND DRAWING INDEX
MB002	MECHANICAL ABBREVIATIONS AND GENERAL NOTES
MB003	MECHANICAL SCHEDULES
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EB010	MAN FLOOR FIRE ALARM PLAN
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EB012	ELECTRICAL DETAILS
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FB002	MAN FLOOR FIRE PROTECTION PLAN - SOUTH
FB003	MAN FLOOR FIRE PROTECTION PLAN - NORTH
FB004	MAN FLOOR HAZARD LEVEL ZONING PLAN - SOUTH
FB005	MAN FLOOR HAZARD LEVEL ZONING PLAN - NORTH
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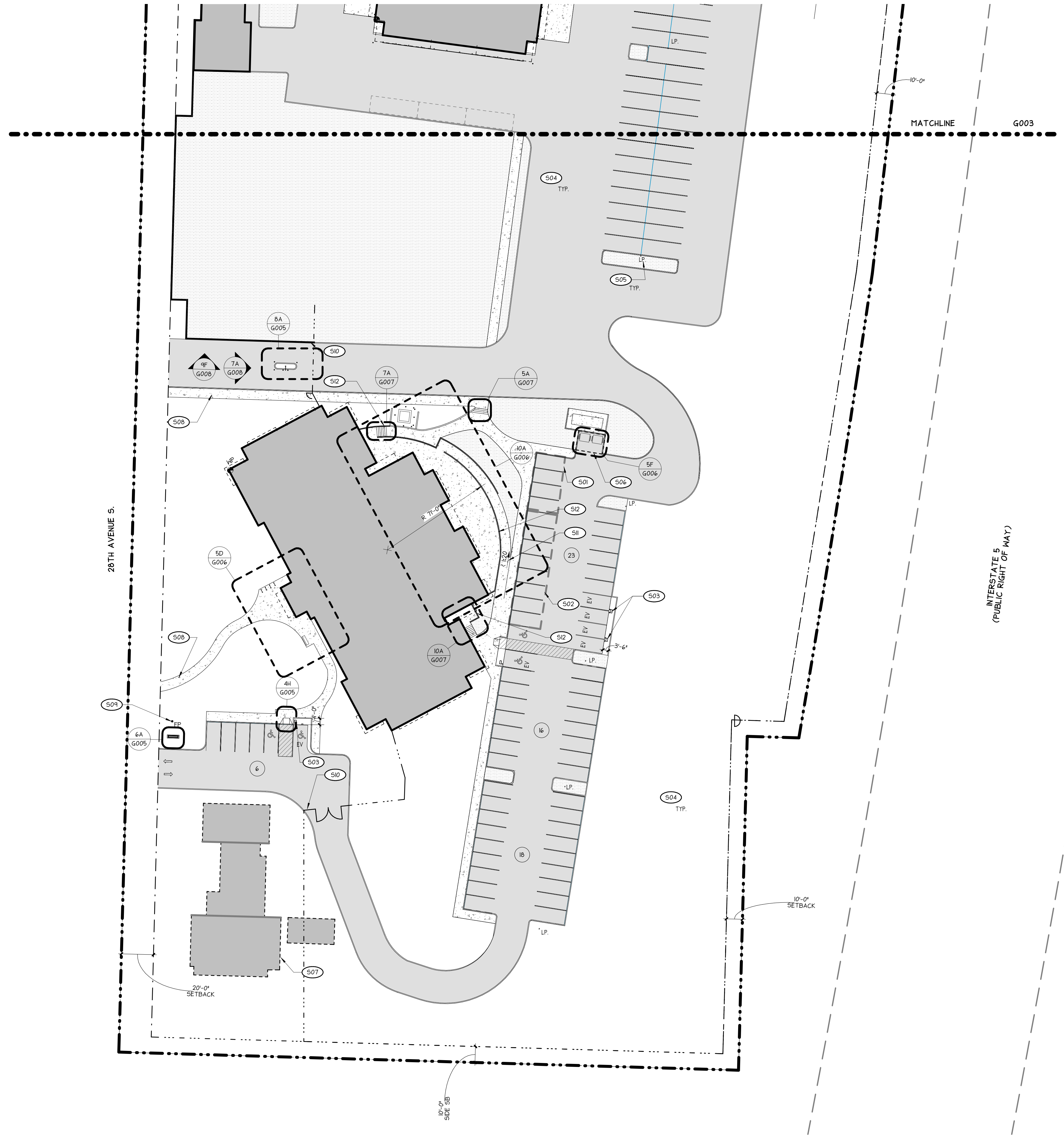
TELECOMMUNICATIONS DRAWINGS
TB001 TELECOM LEGEND, GENERAL NOTES, ABBREVIATIONS, AND DRAWING INDEX

SITE PLAN LEGEND

DESCRIPTION	SYMBOL AND TEXT
PROPERTY LINE length (ft.) angle (survey)	100.00' N 90° 00' 00" W
ADJACENT PROPERTY LINE length (ft.) angle (survey)	100.00' N 90° 00' 00" W
PROPERTY SETBACK LINE description and setback distance	5' 10'
BUILDING outline of building	BUILDING T.O.F. = 100.0'
FENCE height/description	METAL FENCE
STORM POND outline of pond location	
ACCESSIBLE PARKING STALLS row count, accessible stall indicator (H.C.), concrete curb, curb cut, H.C. parking signs, 2% max slope all directions	
signs shall be located a minimum of 40 inches above parking surface	26'-0"
ELECTRICAL VEHICLE CHARGING STATION PARKING STALL	
electric vehicle charging station (EVCS) parking stall, refer to civil drawings and electrical drawings for specific locations, charging station model and type, dimensions and details, metal (I) fixed bollard (type B-1) and install wheel stops as shown	EVCS EVCS
LIGHT POLE (E) = existing	LP
BOLLARD fixed 6" diameter steel bollard, concrete apron	B
FLAG POLE fixed 6" diameter steel flag pole, concrete footing below	FP
CONCRETE PAVEMENT concrete pavement with trapezoidal joint pattern as shown on site plan	CONCRETE PAVING
ASPHALT PAVEMENT asphalt pavement	ASPHALT PAVING
CONCRETE CURB TYPES vertical concrete curb	
LANDSCAPE AREA landscape area	LANDSCAPE AREA
WORK POINT building corner, starting building layout reference point	WP

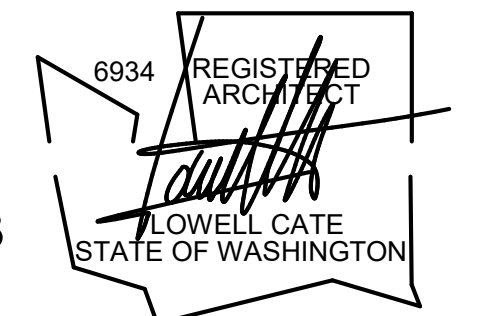
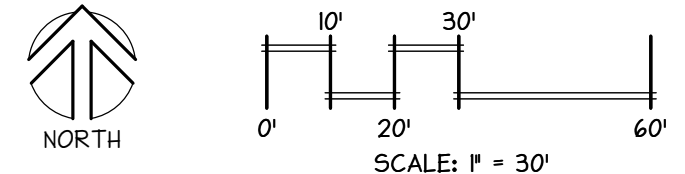
SITE PLAN NOTES

SYMBOL	NOTE
S01	PROVIDE 'RESERVED' SIGNS FOR MANAGERS PARKING STALLS.
S02	PROVIDE 'RESERVED' SIGNS FOR SUPERVISORS PARKING STALLS.
S03	PROVIDE ELECTRICAL VEHICLE CHARGING STATIONS AND SIGNS.
S04	SALVAGE EXISTING ECOLOGY BLOCKS FOR REUSE ON SITE.
S05	LIGHT POLE, TYPICAL.
S06	CANOPY STRUCTURE.
S07	EXISTING BUILDING TO REMAIN FOR STAFF OPERATIONS WHILE THE OPERATIONS BUILDING IS BEING CONSTRUCTED.
S08	SIX FEET WIDE PEDESTRIAN WALKWAY FROM THE PUBLIC SIDEWALK / STREET.
S09	FLAG POLE DETAIL BH/G005.
S10	KNOX BOX (ACCESS BOX) PER FIRE DEPARTMENT REQUIREMENTS.
S11	SLOPED SIDEWALK UP THE PLAZA LESS THAN 2% SLOPE.
S12	CONCRETE RETAINING WALL AND GUARDRAIL AROUND PLAZA.



10B ENLARGED SITE PLAN - SOUTH

1" = 30'-0"



HELIX DESIGN GROUP, INC.

ENLARGED SITE PLAN

CITY OF FEDERAL WAY
JOINT OPERATIONS & MAINTENANCE FACILITY

FEDERAL WAY, WASHINGTON

REVISION	DATE

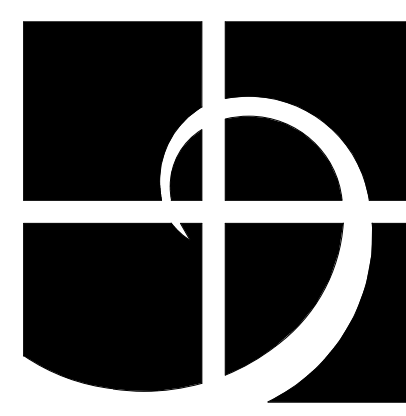
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G004

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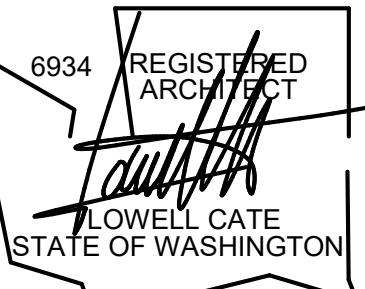
UNOFFICIAL COPY Official bid documents, plan holder's list, and addenda (if applicable) are available on BXWA.com



Helix design group



AMERICAN INSTITUTE OF ARCHITECTS

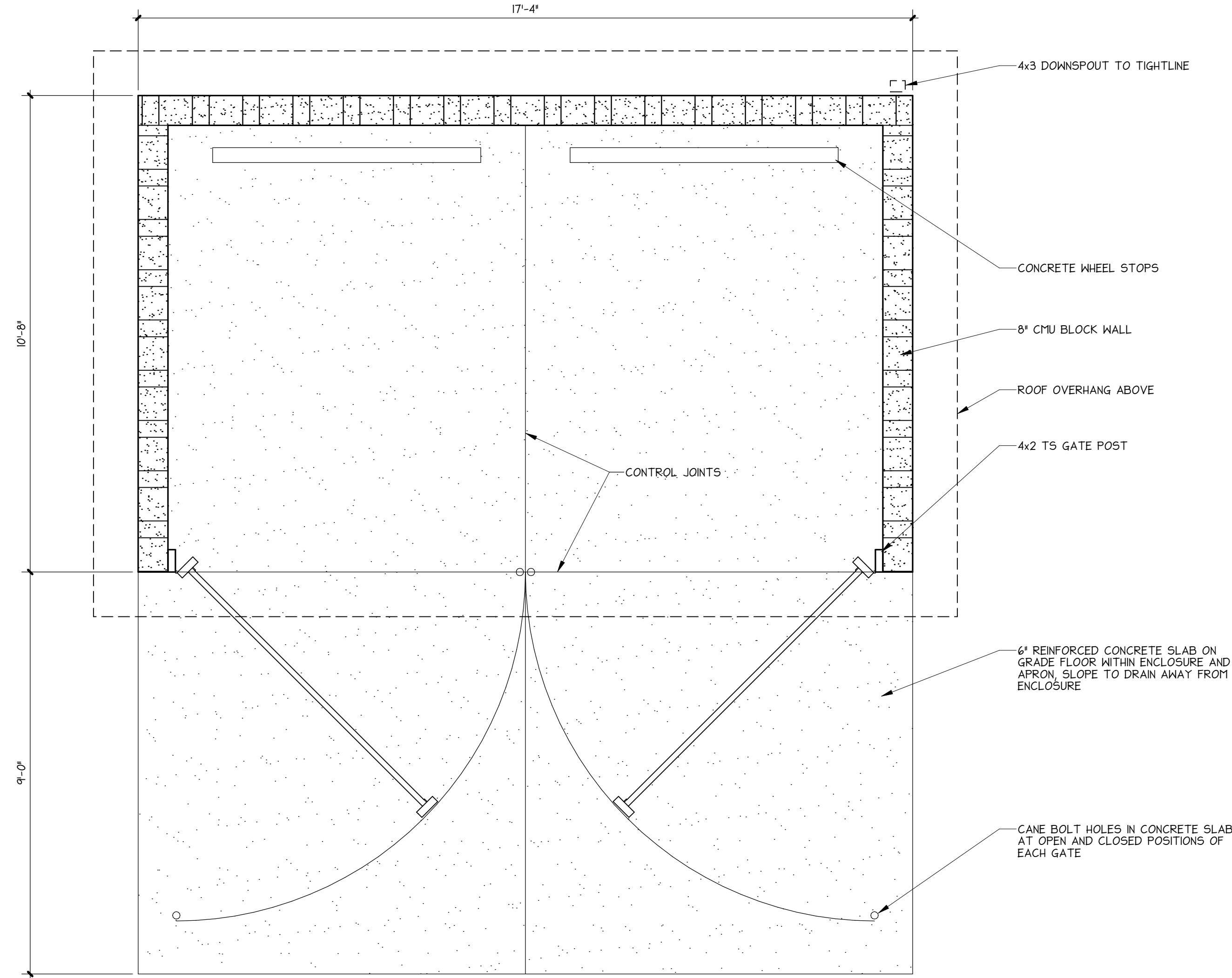


HELIX DESIGN GROUP, INC.



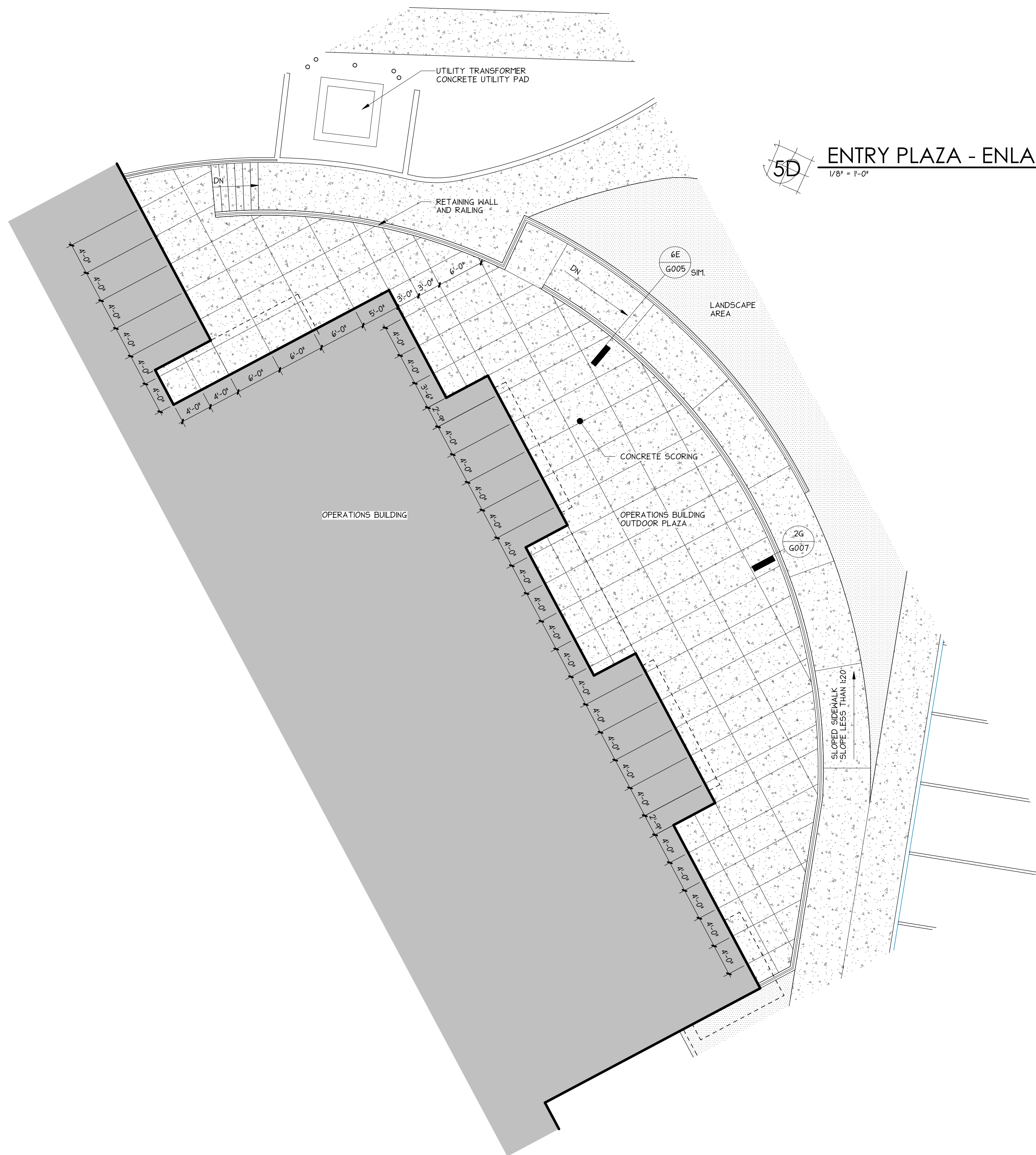
5D ENTRY PLAZA - ENLARGED PLAN

1/8" = 1'-0"



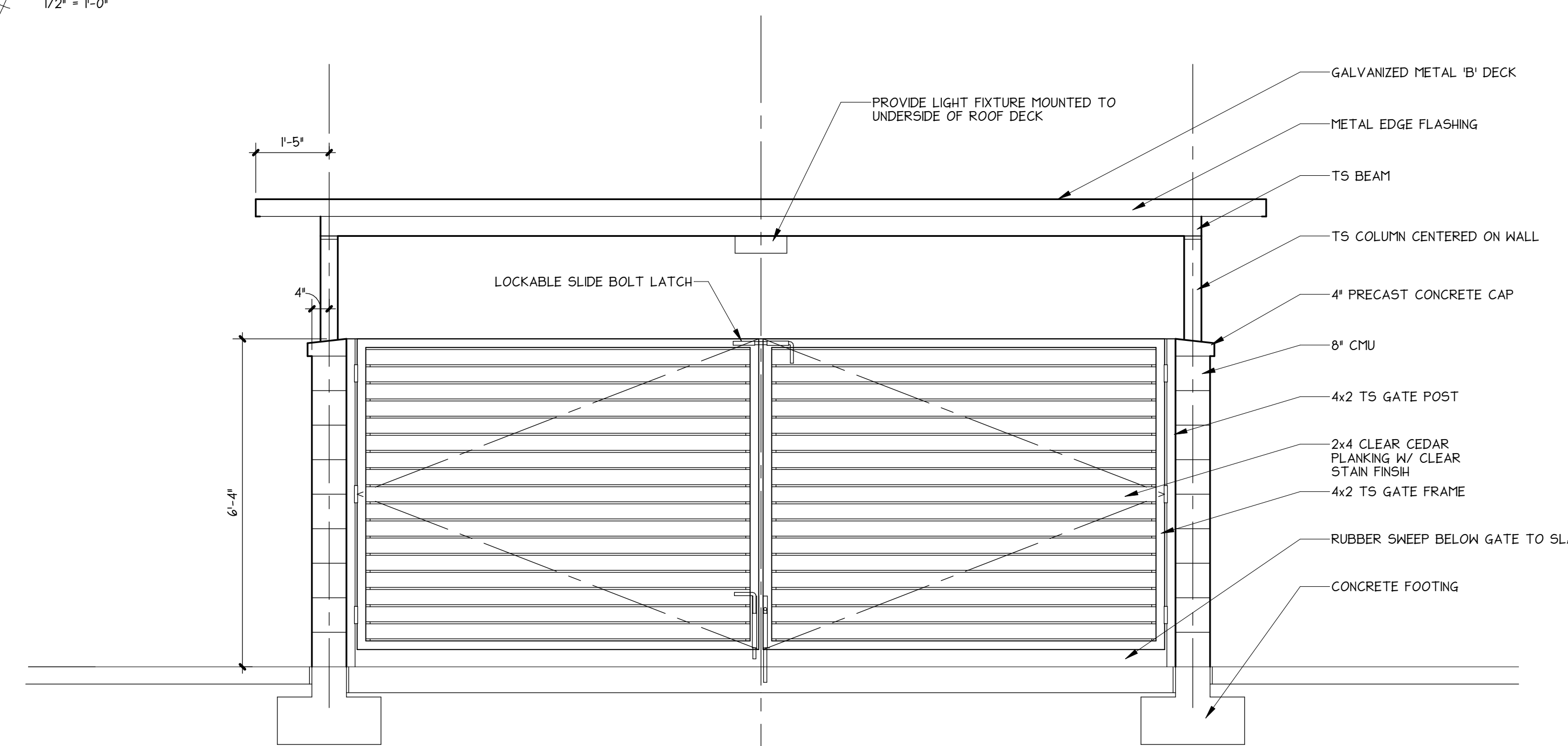
5F TRASH ENCLOSURE - PLAN

1/2" = 1'-0"



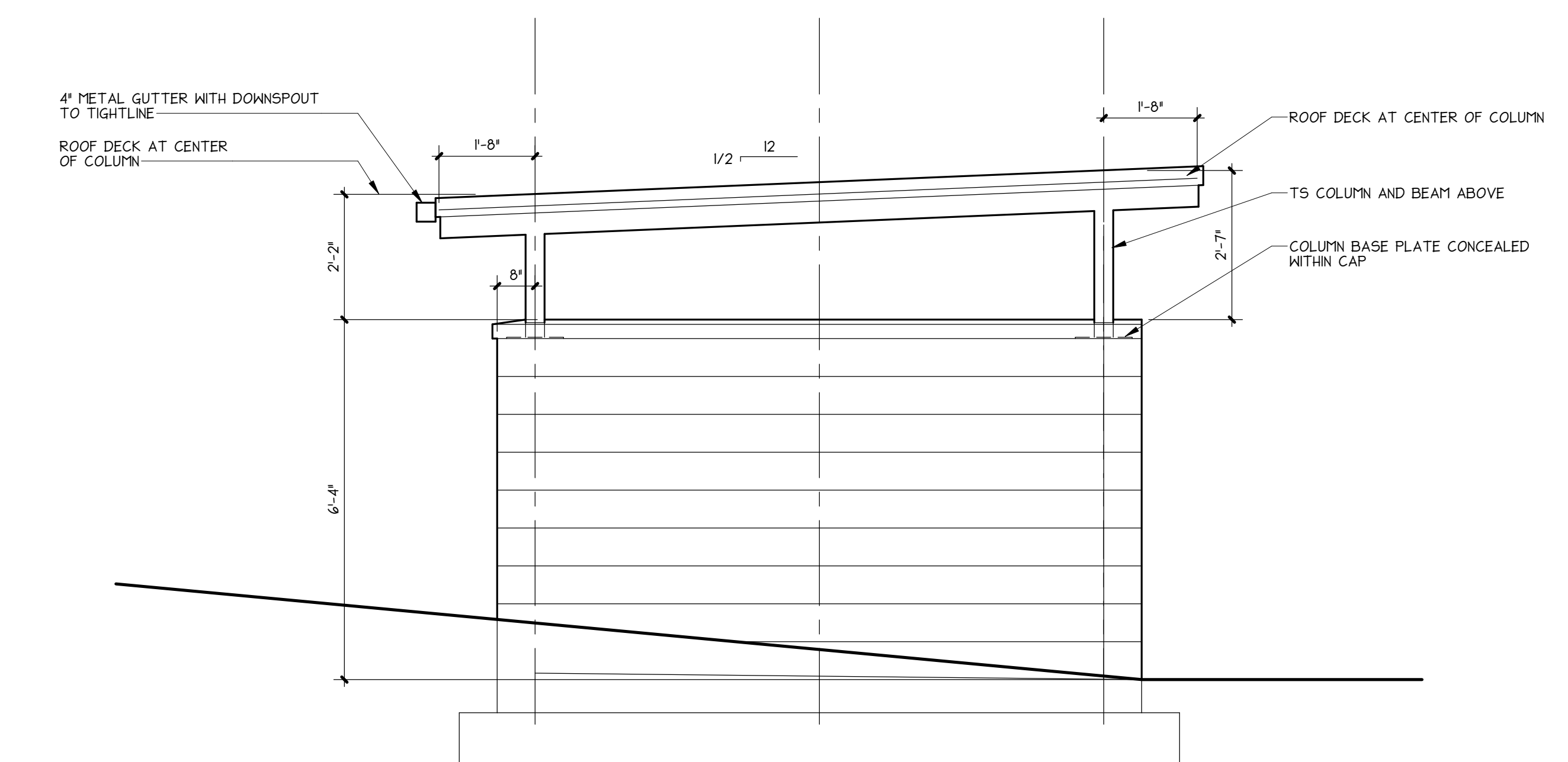
10A OPERATIONS BUILDING PLAZA - ENLARGED PLAN

1/8" = 1'-0"



7F TRASH ENCLOSURE - FRONT ELEVATION

1/2" = 1'-0"



10F TRASH ENCLOSURE - SIDE ELEVATION

1/2" = 1'-0"

5 SITE DETAILS

7 SITE DETAILS

CITY OF FEDERAL WAY JOINT OPERATIONS & MAINTENANCE FACILITY

FEDERAL WAY, WASHINGTON

REVISION	DATE

DATE: 05.06.24 JOB NO.: 023-087

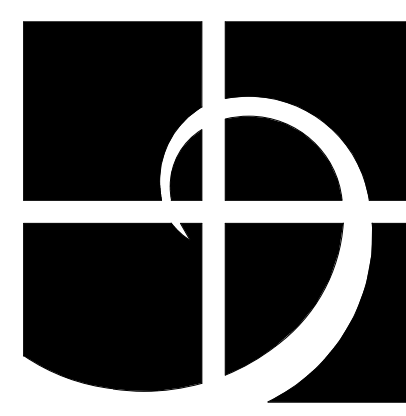
BID SET

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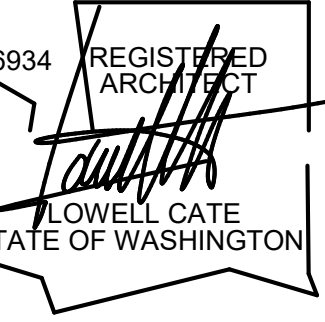
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STAIR PLANS AND DETAILS

CITY OF FEDERAL WAY
JOINT OPERATIONS & MAINTENANCE FACILITY

FEDERAL WAY, WASHINGTON

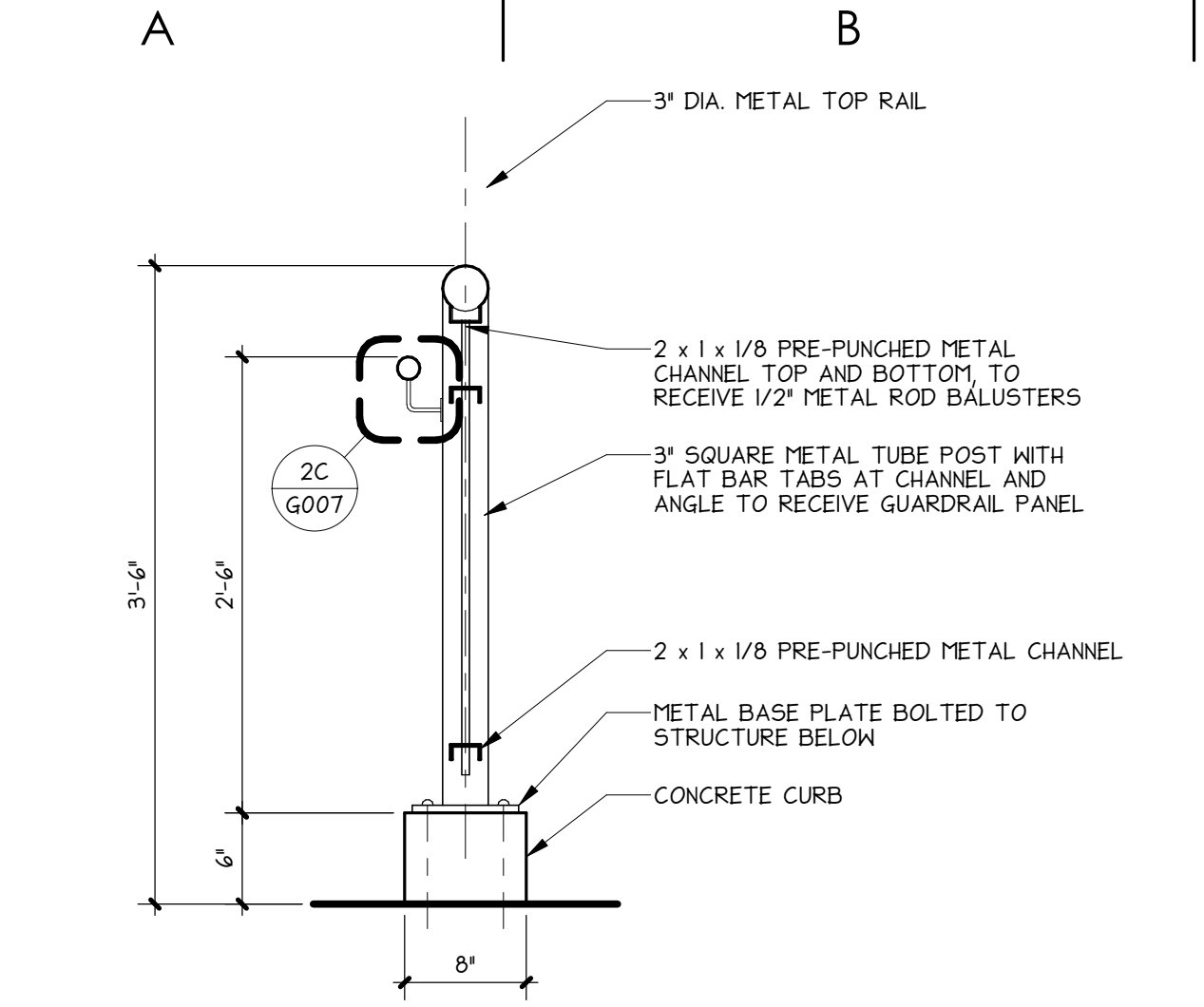
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DATE 05.06.24 JOB NO. 023-087

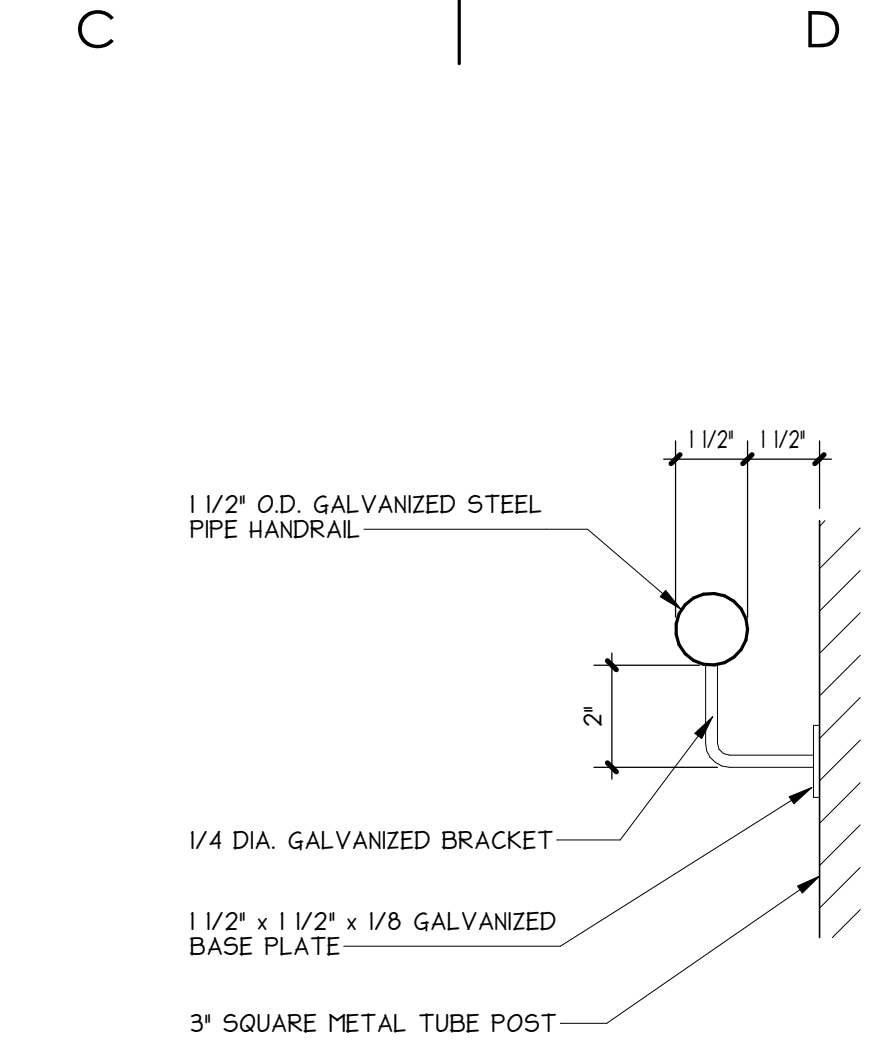
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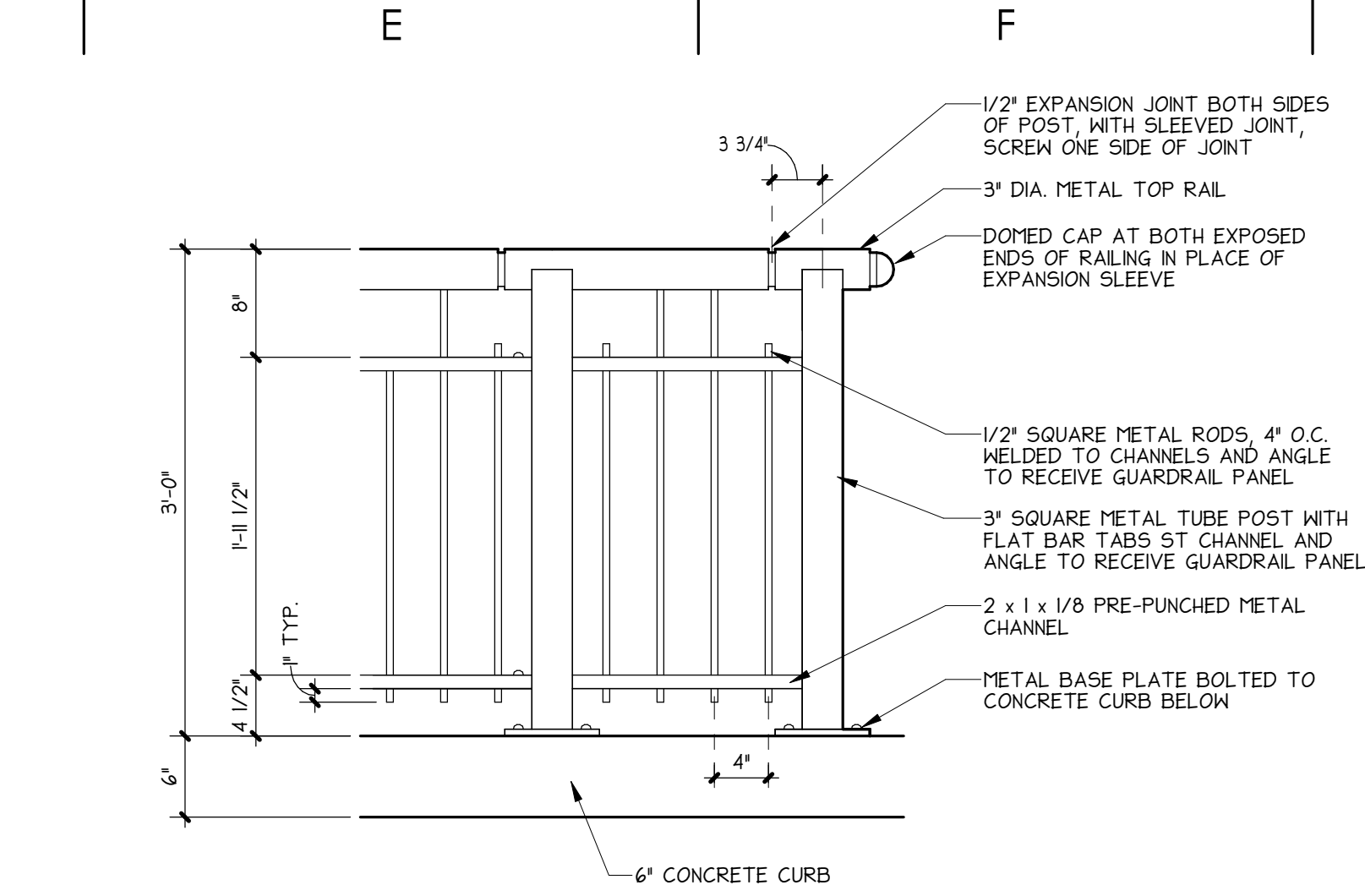
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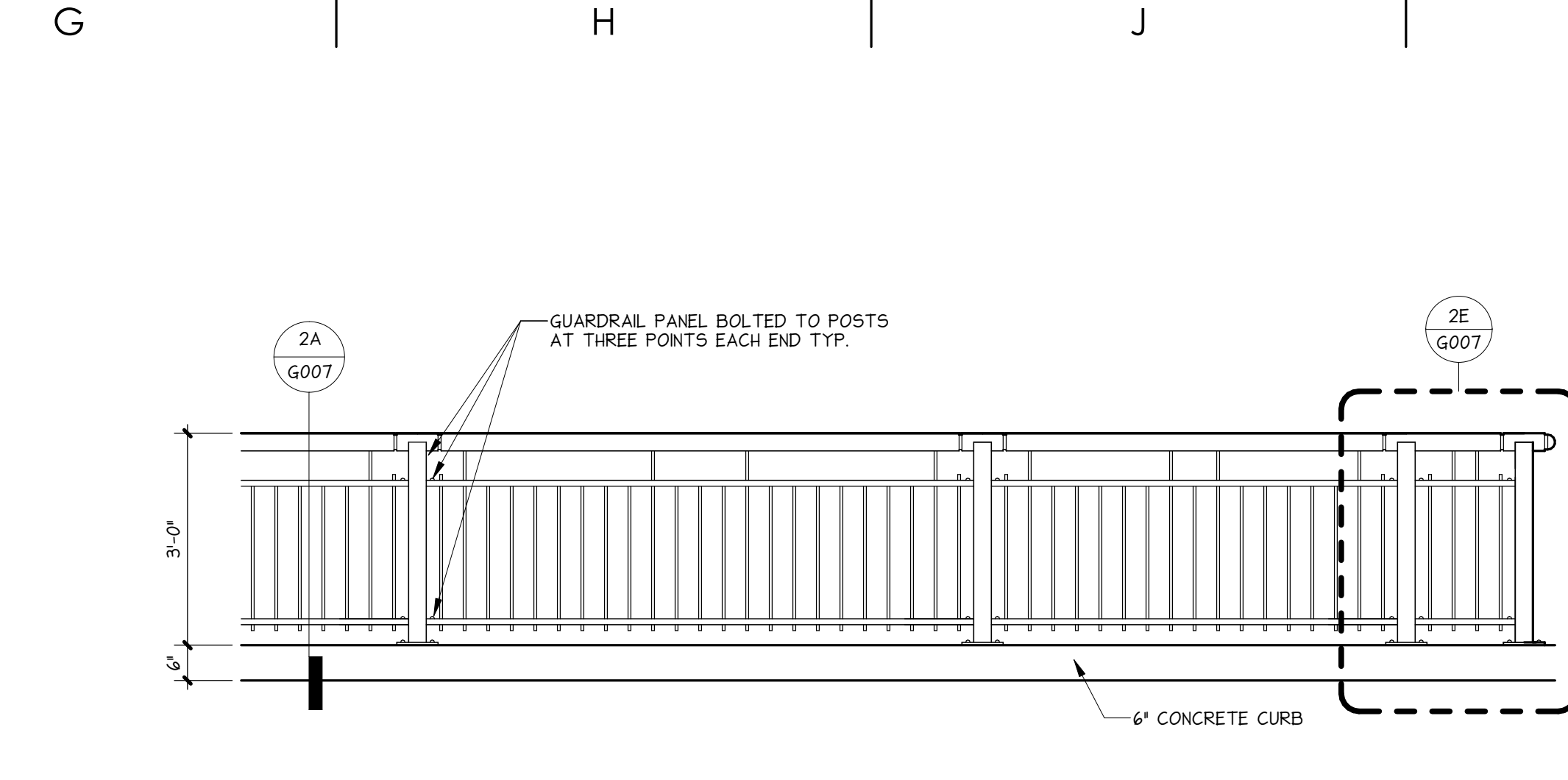
2A DETAIL
7'-1'-0"



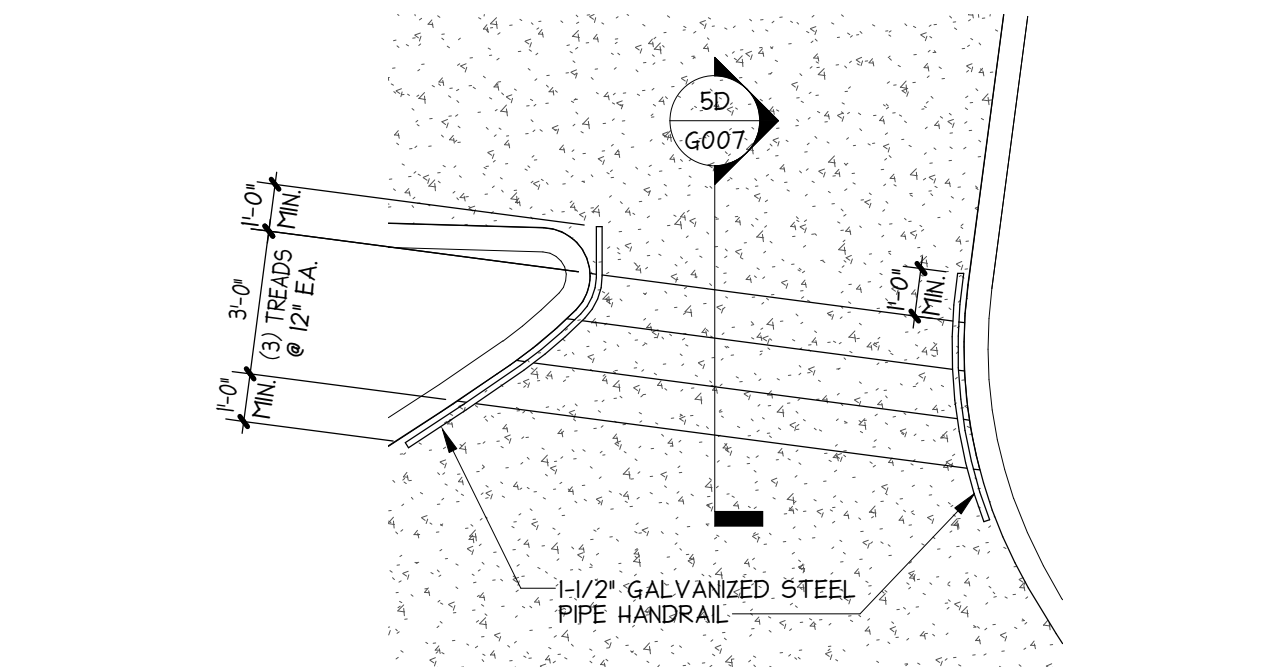
2C DETAIL
3'-1'-0"



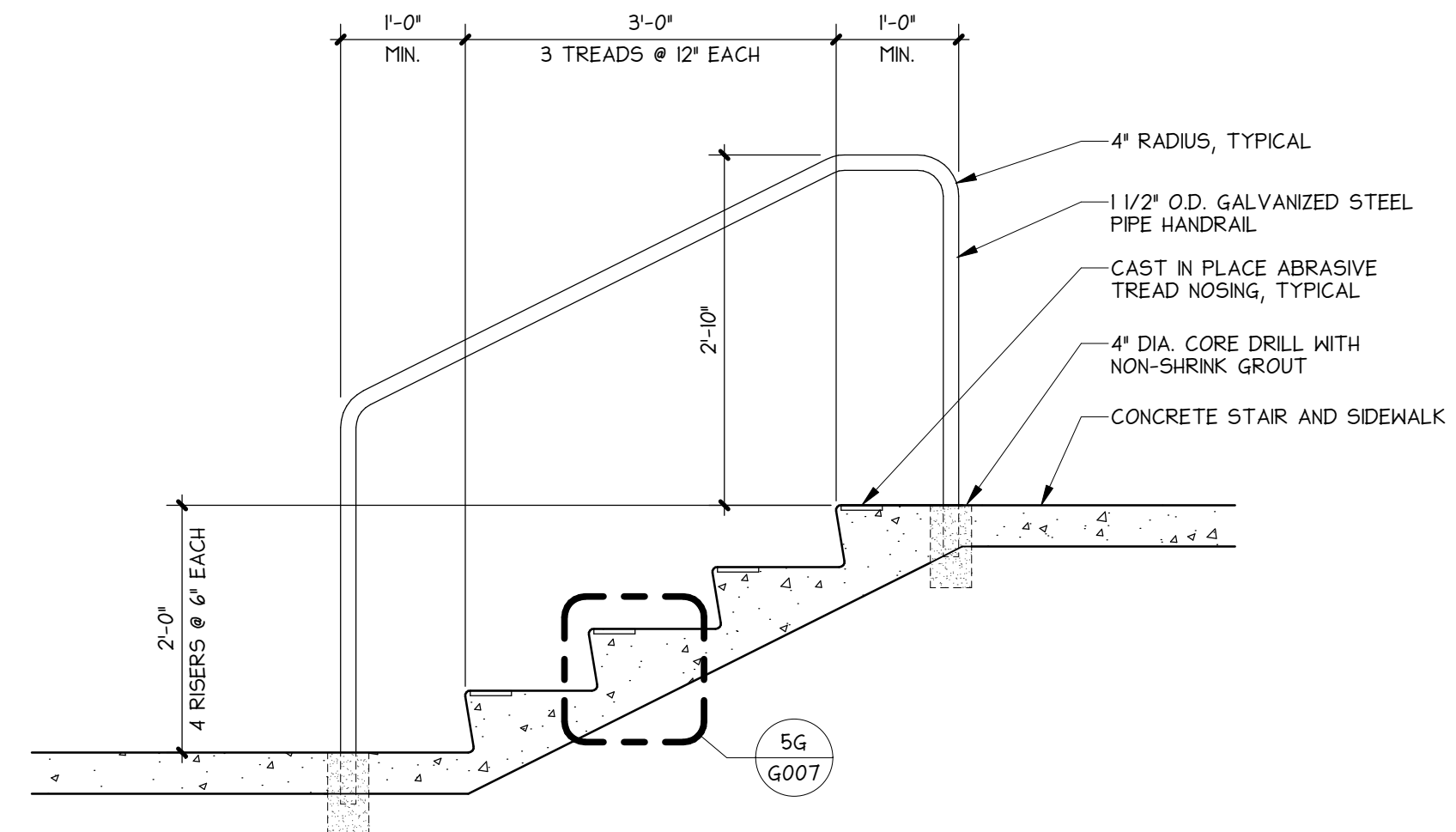
2E DETAIL
7'-1'-0"



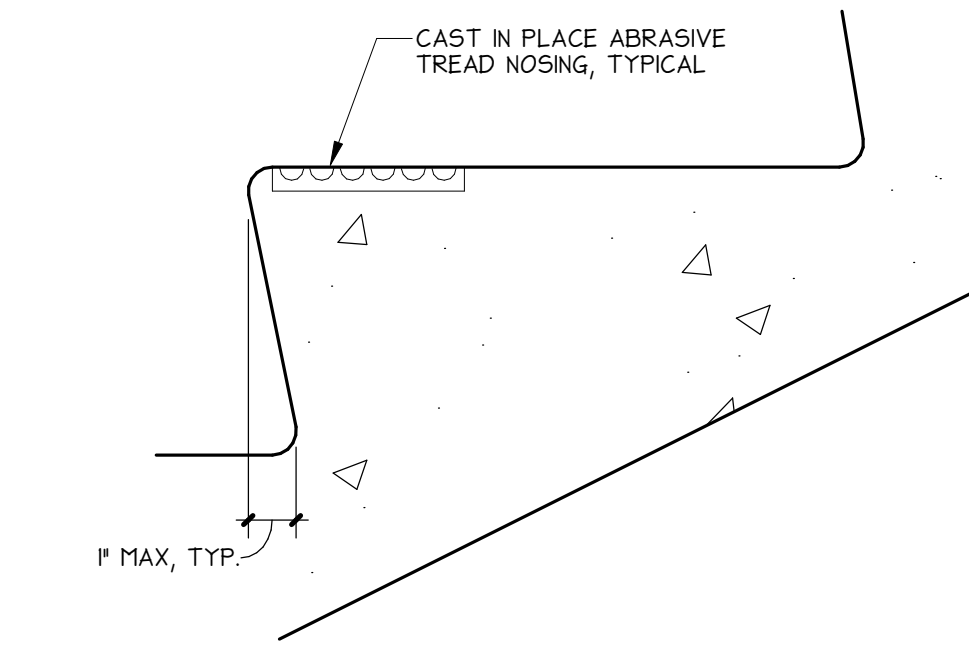
2G DETAIL
1/2'-1'-0"



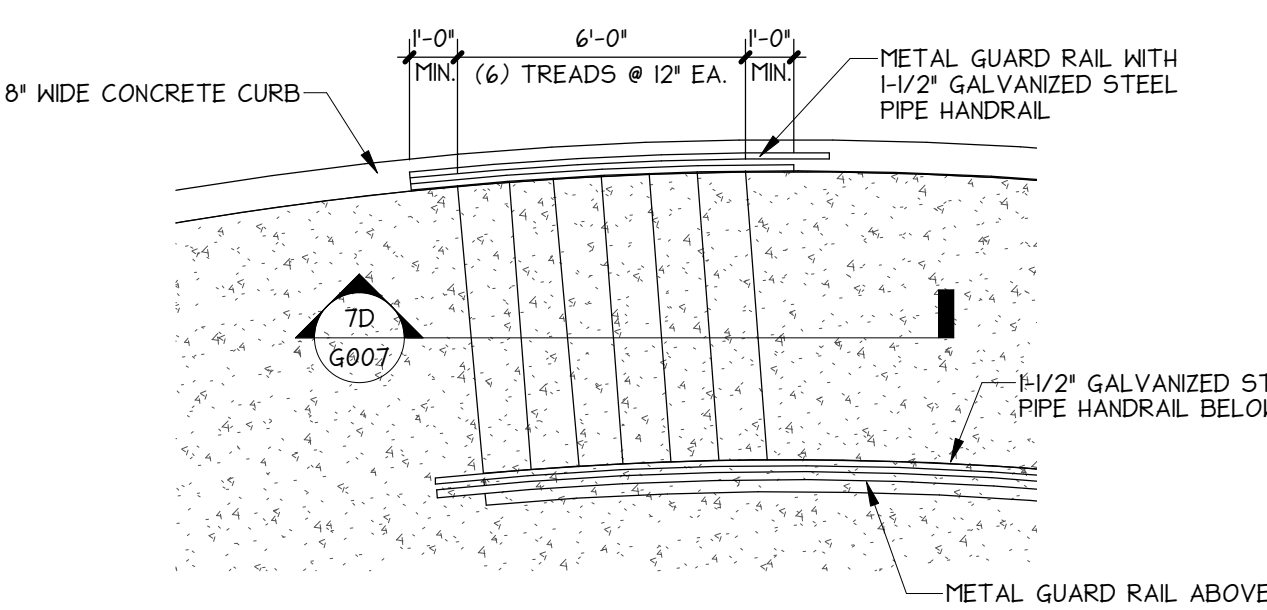
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1/4'-1'-0"



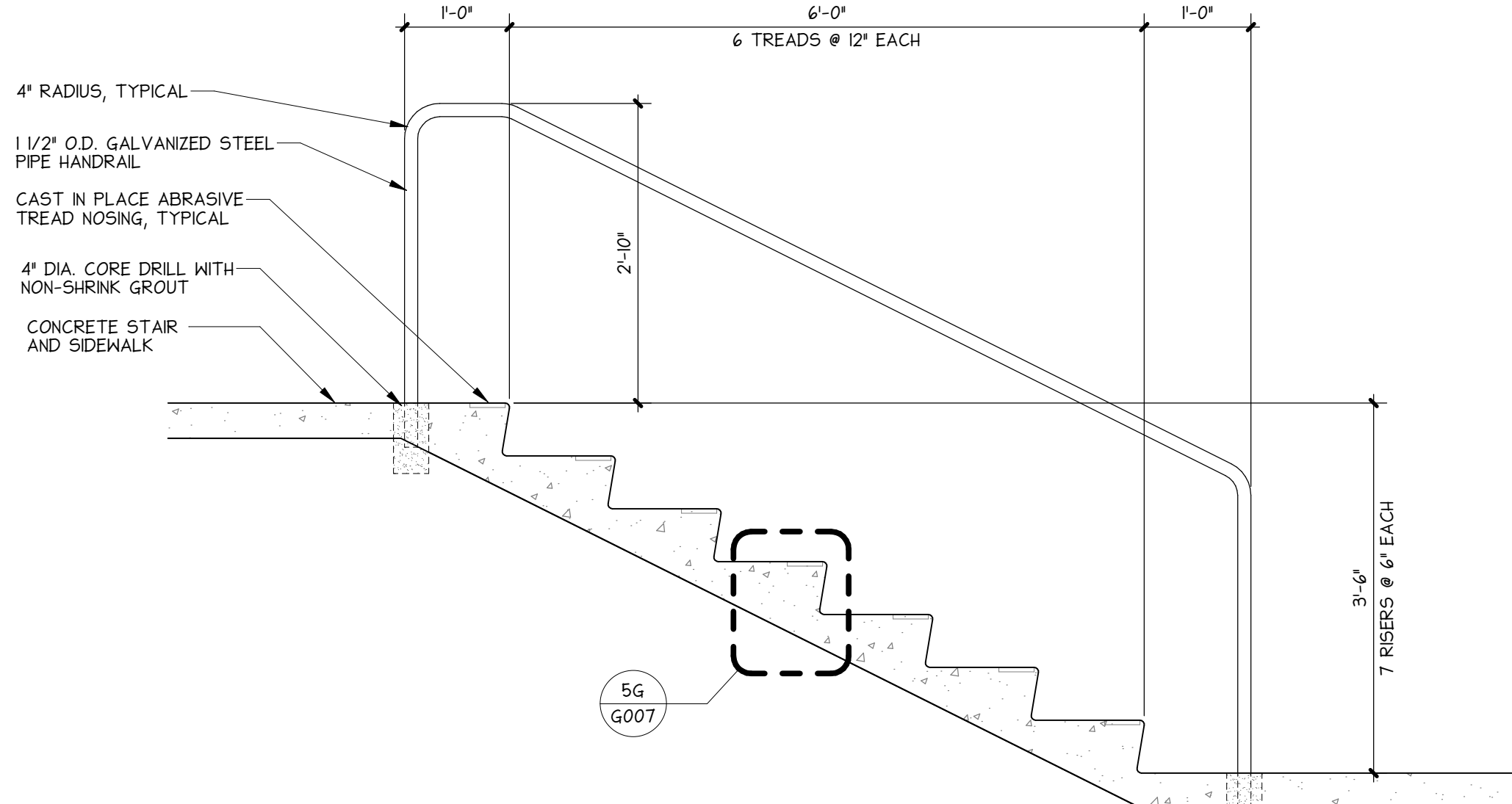
5D DETAIL
3/4'-1'-0"



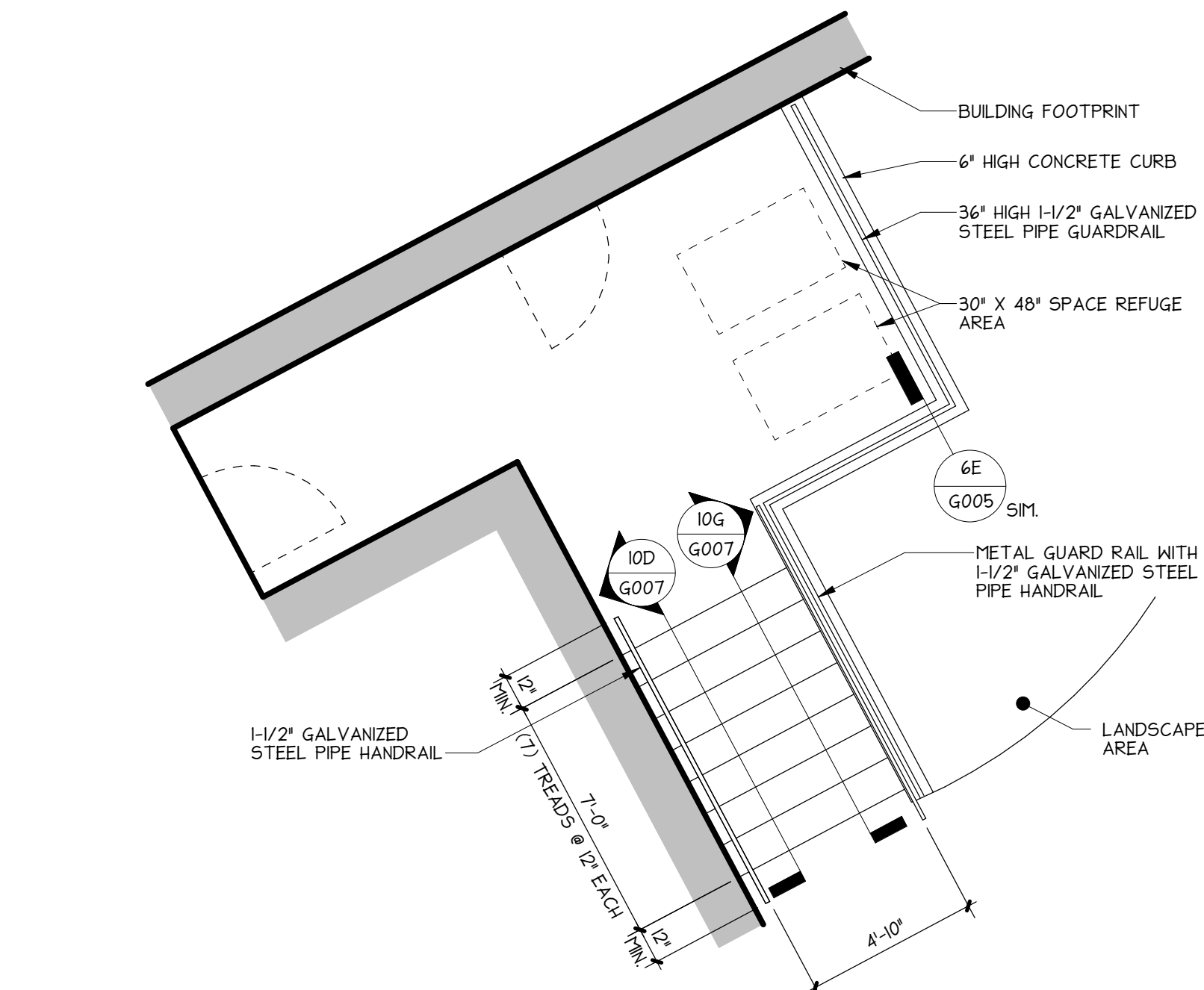
5G DETAIL
3'-1'-0"



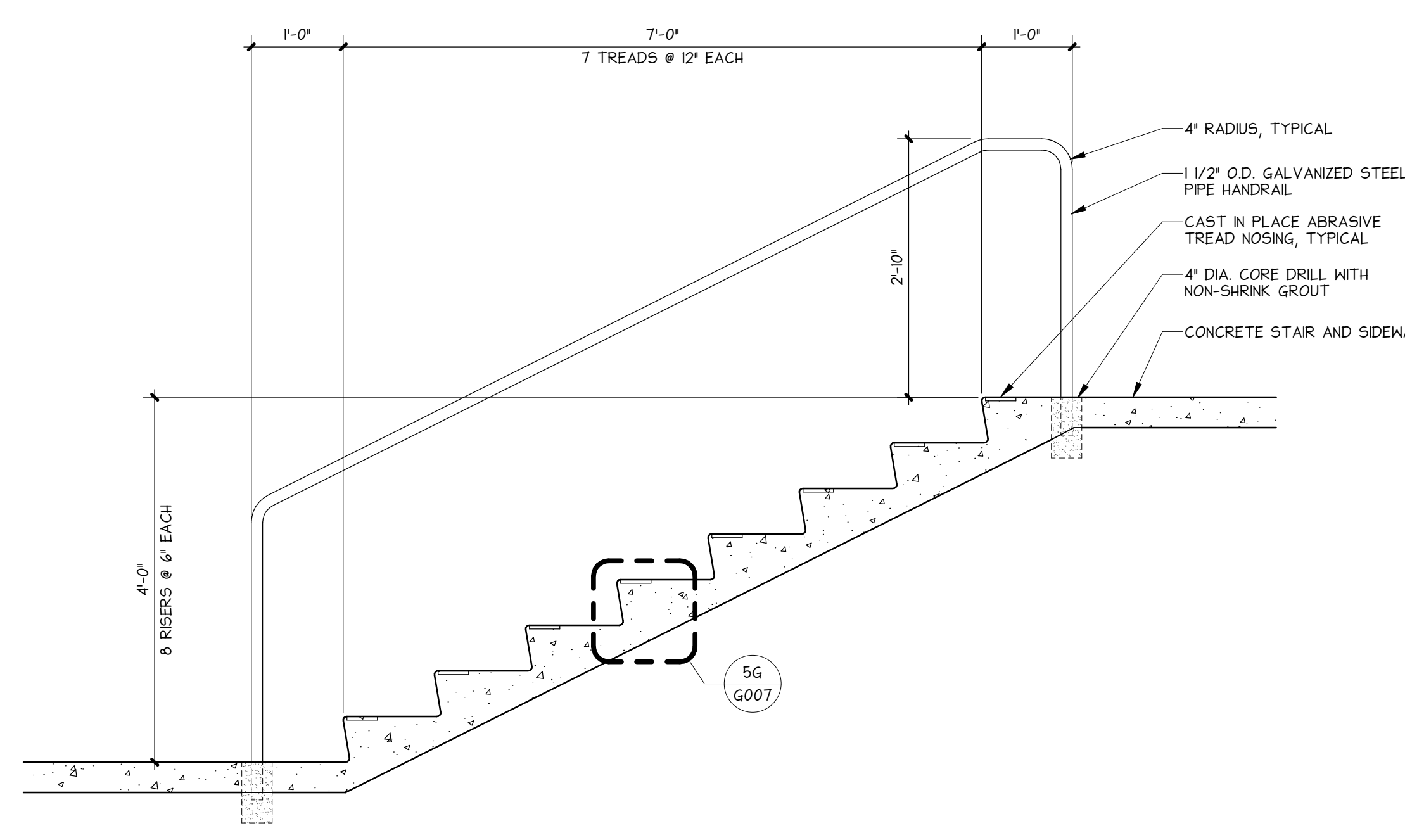
7A DETAIL
1/4'-1'-0"



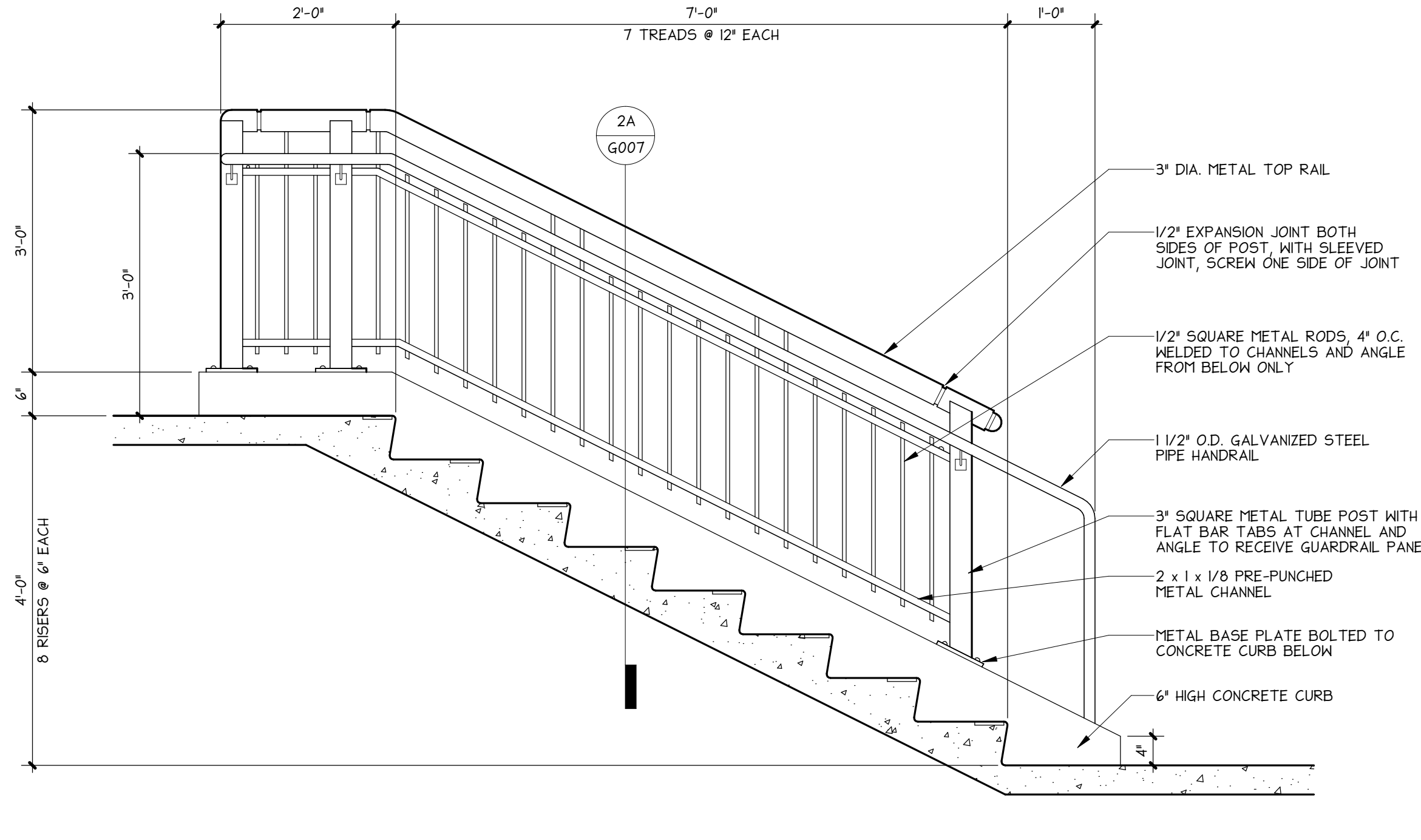
7D DETAIL
3/4'-1'-0"



10A DETAIL
1/4'-1'-0"



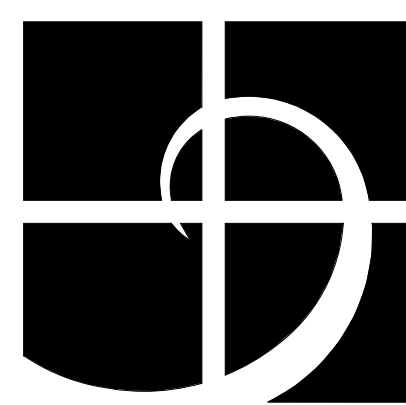
10D DETAIL
3/4'-1'-0"



10G DETAIL
3/4'-1'-0"

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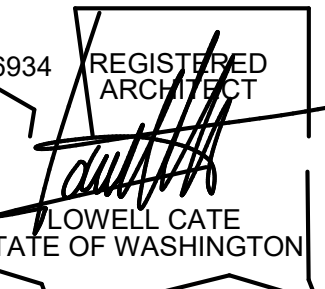
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ART - SECURITY WALL DETAILS

CITY OF FEDERAL WAY
JOINT OPERATIONS & MAINTENANCE FACILITY

FEDERAL WAY, WASHINGTON

REVISION DATE

DATE JOB NO.

05.06.24 023-087

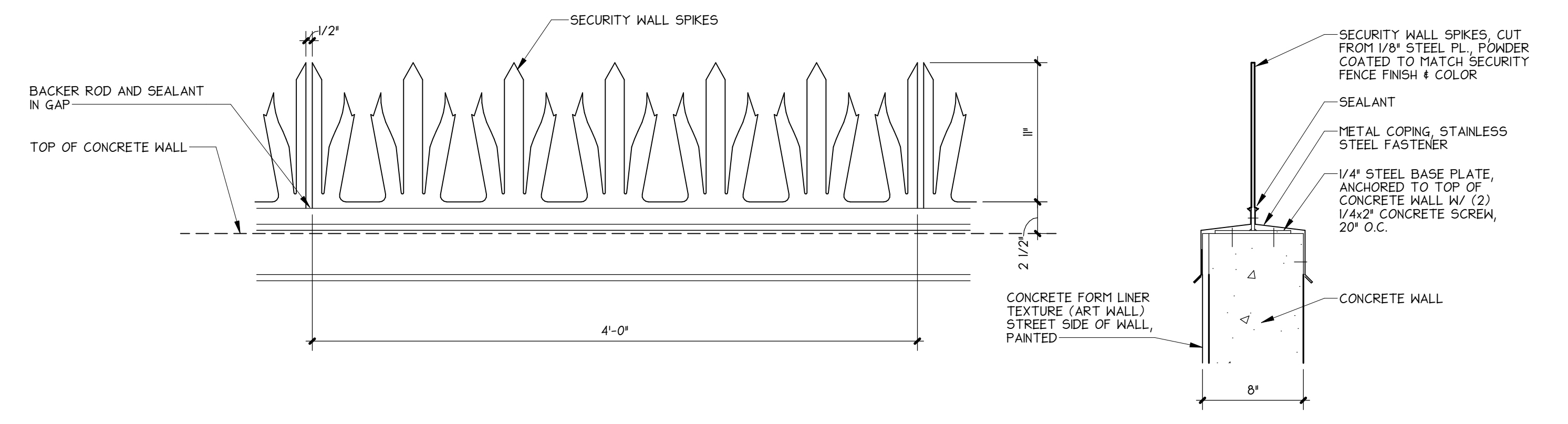
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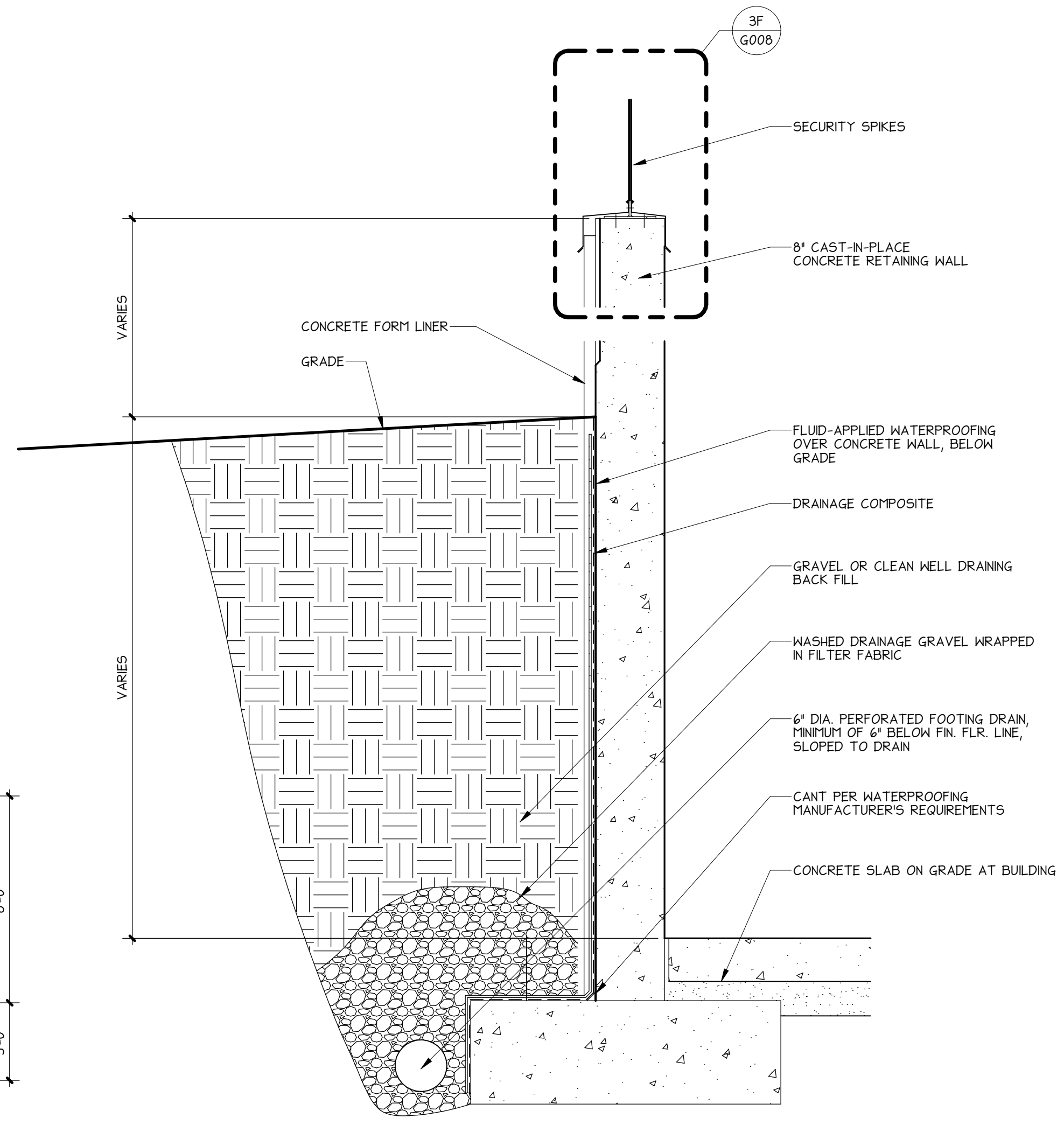
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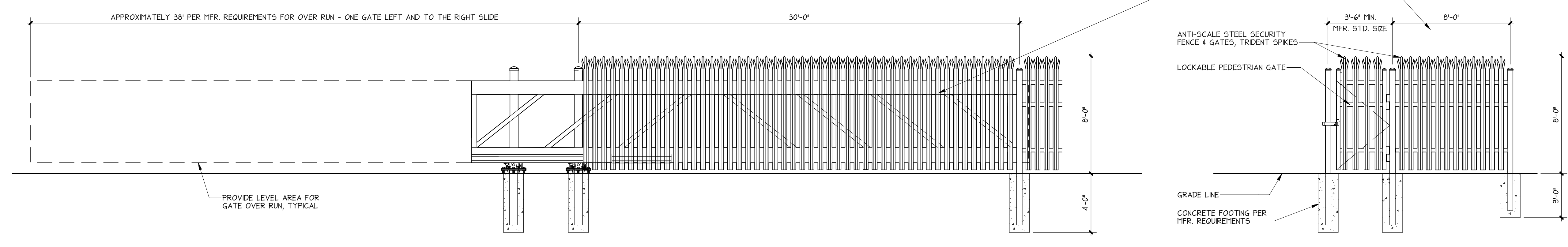
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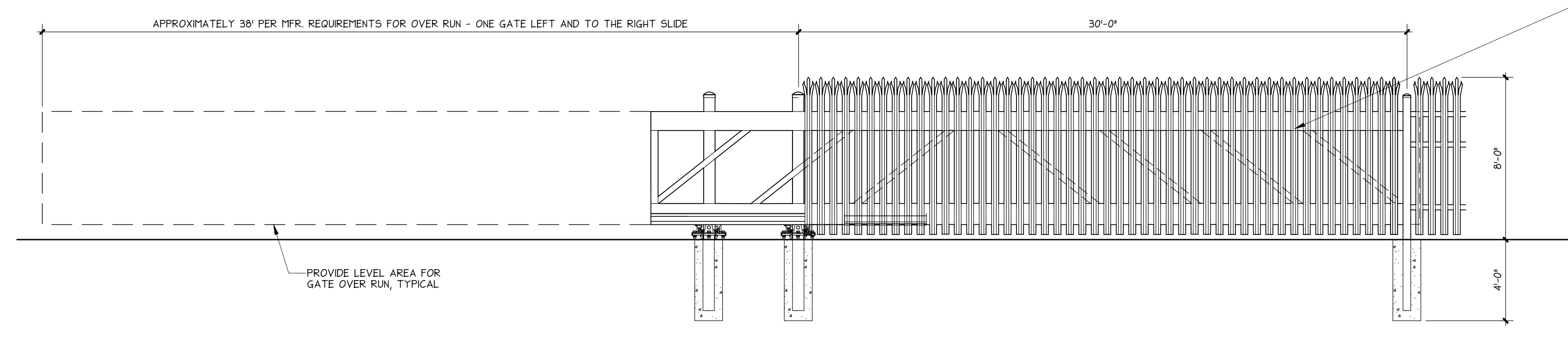
3F SECURITY WALL SPIKE DETAIL
1/2" = 1'-0"



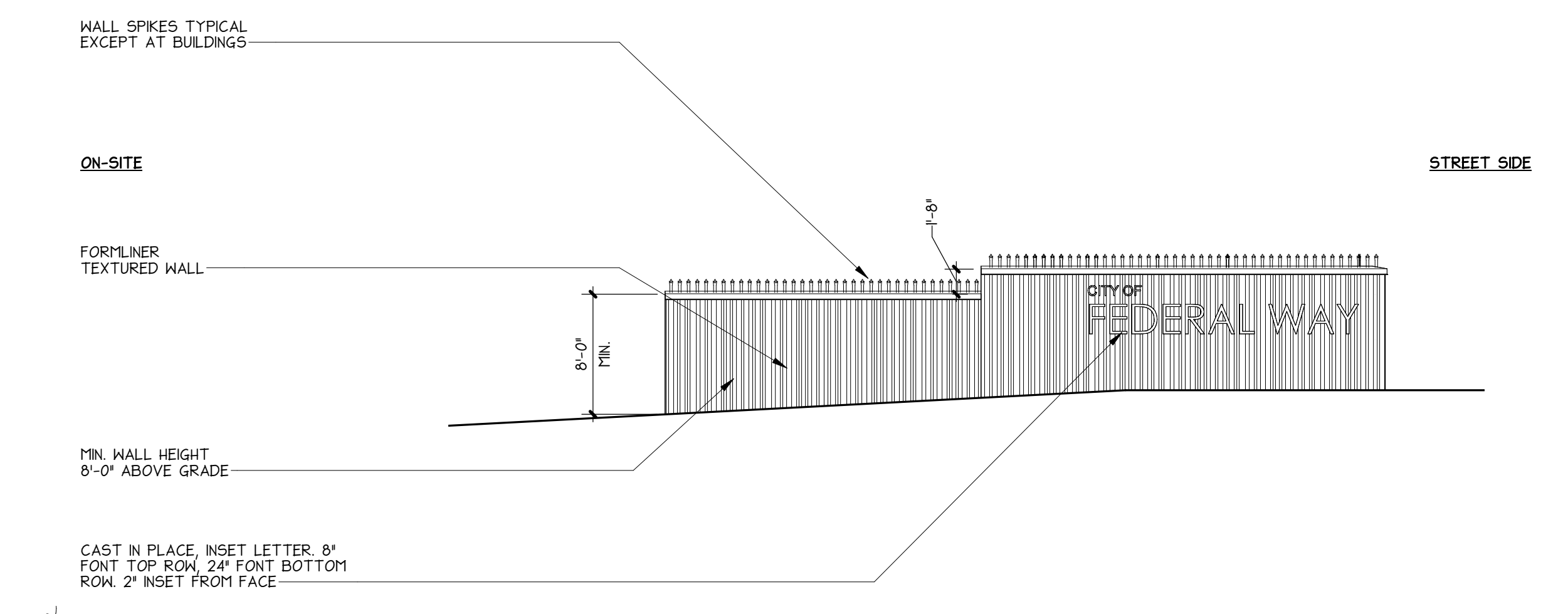
7H CAST-IN-PLACE RETAINING WALL DETAIL
1" = 1'-0"



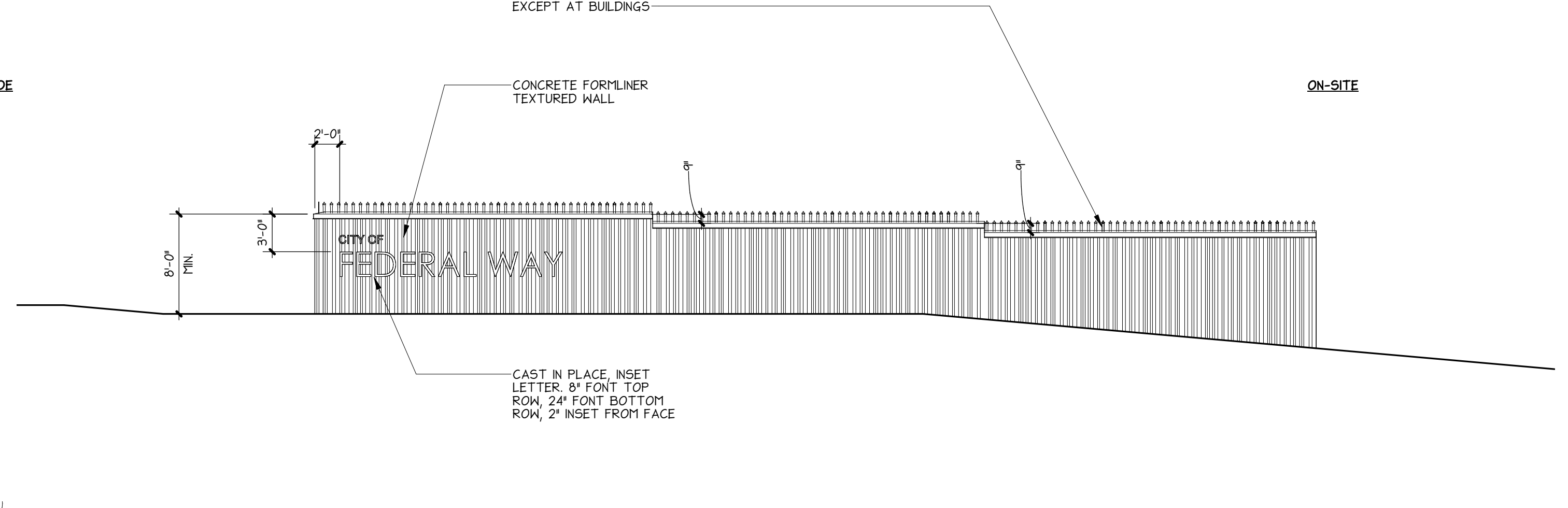
FENCE & GATE DETAIL



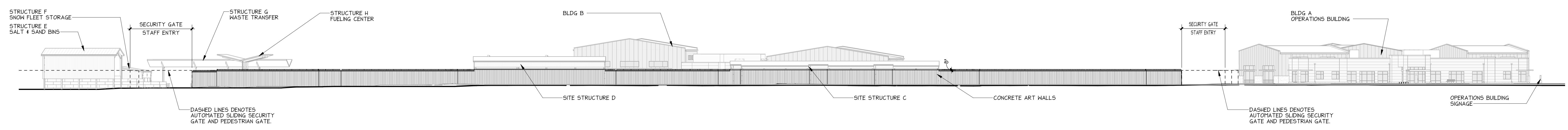
7A SLIDING GATE DETAIL
1/4" = 1'-0"



9A NORTH ELEVATION AT STAFF ENTRY
1/8" = 1'-0"



9F SOUTH ELEVATION AT STAFF ENTRY
1/8" = 1'-0"



10A WEST ELEVATION
1" = 30'-0"

PROJECT: 023-087 - CITY OF FEDERAL WAY - JOINT OPERATIONS & MAINTENANCE FACILITY
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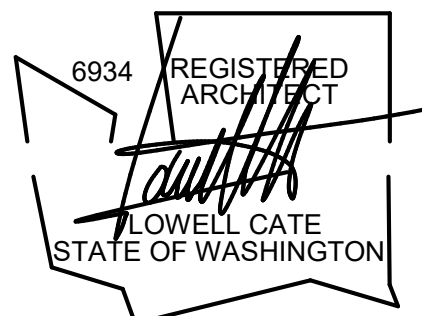
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STANDARD ABBREVIATIONS LIST

(D)	DEMOLISH / DEMOLITION	HM	HOLLOW METAL	SV	SHEET VINYL
(E)	EXISTING	HMS	HORIZONTAL METAL SIDING	T	TREAD
(F)	FUTURE	HOR	HORIZONTAL	T&G	TONGUE AND GROOVE
(R)	RELOCATE	HR	HOUR	TS	TOWEL BAR
(*)	REMOVABLE	HT	HEIGHT	T.I.	TENANT IMPROVEMENT
(S)	SALVAGE	HND	HARDWOOD	T.O.	TOP OF
#	AT	ID.	INSIDE DIAMETER	T.O.B.	TOP OF BEARING
A.B.	ANCHOR BOLT	IFP	INSULATED METAL PANEL	T.O.F.	TOP OF FLOOR
A.F.F.	ABOVE FINISH FLOOR	INT	INTERIOR	T.O.N.	TOP OF NAIL
ABB	ABBREVIATION	IRGB	IMPACT RESISTANT GYPSUM WALL BOARD	T.S.C.D.	TOILET SEAT COVER DISPENSER
ACB	ACOUSTICAL CEILING BAFFLE	ISO	ISOTHERMAL RIGID INSULATION	TB	TACKBOARD
ACM	ALUMINUM COMPOSITE MATERIAL WALL PANEL	JAN	JANITOR	TBB	TILE BACKERBOARD
ACP	ARCHITECTURAL CONCRETE PAVEMENT	JST	JOIST	TC	TOILET COMPARTMENTS
ACT	ACOUSTICAL CEILING TILE	JT	JOINT	TOP	TOILET CONCRETE PANEL
ADA	AMERICANS WITH DISABILITIES ACT	LAM	LAMINATE	TD	TRAFFIC DOOR
ADDL	ADDITIONAL	LAV	LAVATORY	TEHP	TEMPORARY
ADJ	ADJUSTABLE	LBR	LUMBER	TFR	TRANSFORMER
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	LBS.	POUNDS (HEIGHT)	TK	THICK
ALUM	ALUMINUM	LG	LAMINATED GLASS	THL	THERMAL
AP	ACCORDIAN PARTITION	LN	LINOLEUM	TL	TILE
APC	ARCHITECTURAL POLISHED CONCRETE	LP	LIGHT POLE	TPD	TOILET PAPER DISPENSER
AS	ASPHALT SHINGLES	LVP	LUXURY VINYL PLANK FLOORING	TR	TRANSITION
ASMB	ASSEMBLY	LVR	LOUVER	TRD	TREATED
AWF	ACOUSTICAL WALL FABRIC	LVT	LUXURY VINYL TILE	TRZ	TERRAZZO
AWM	ACOUSTICAL WALL MATERIAL	TI	TILE	TS	TUBE STEEL
AWP	ARCHITECTURAL WALL PANEL	TI-R	TILE RESISTANT	TFW	TACKABLE WALL FABRIC
B	BOLLARD	TIAS	MASONRY	TYP	TYPICAL
B.O.F.	BOTTOM OF FOOTING	TIAX	MASONRY	UNO.	UNLESS NOTED OTHERWISE
BB	BACKERBOARD	TS	TACKERBOARD	UNF	UNFINISHED
BD	BOARD	MC	MEDICINE CABINET	VB	VAPOR BARRIER
BF	BRACE FRAME	MC	METAL CEILING PANELS	VCT	VINYL COMPOSITION TILE
BLDG	BUILDING	MDF	MEDIUM DENSITY FIBERBOARD	VERT	VERTICAL
BLKG	BLOCKING	MECH	MECHANICAL	VMS	VERTICAL METAL SIDING
BM	BEAM	MEP	MECHANICAL, ELECTRICAL, PLUMBING	VP	VENEER PLASTER
BN	BIRD NETTING	MES	MECHANICAL EQUIPMENT SCREEN	W	WALL
BOT	BOTTOM	MFB	METAL FABRICATIONS	WC	WATER CLOSET
BRG	BEARING	MFR	MANUFACTURER	WJ.F.	WELDED WIRE FABRIC
BRK	BRICK MASONRY UNIT	MFW	MOVABLE FIRE WALL	W	WITH
BTHN	BATH	MIB	MIRROR	WO	WITHOUT
C	COMPACT	MIL	MINUTE	WAN	WAINSCOT
CI	CONTINUOUS INSULATION	MIR	MIRROR	WB	WHITEBOARD
C.J.	CONTROL JOINT	MISC.	MISCELLANEOUS	WC	WOOD COVERING
C.O.S.	CENTER OF STRUCTURE	MIV	MANUFACTURED MASONRY VENEER	WCS	WOOD CEILING SYSTEM
CAB	CABINET	MR	MOISTURE RESISTANT	WD	WOOD
CB	COVE BASE	MRP	METAL ROOFING PANEL	WF	WOOD FLOORING
CBB	CEMENTITIOUS BACKER BOARD	MRS	METAL RAILING SYSTEM	WG	WIRE GLASS
CER	CERAMIC	MS	MANUFACTURED SIDING	WH	WATER HEATER
CG	CORNER GUARD	MSP	METAL SOFFIT PANEL	WIND	WINDOW
CH	CHAIR	MSS	METAL STAR SYSTEM	WOF	WALK OFF MAT
CHRL	CHAIR RAIL	MTL	METAL	WP	WORK POINT
CLG	CEILING	MV	MASONRY VENEER	WRB	WEATHER RESISTIVE BARRIER
CLK	CLINKER TILE	MWP	METAL WALL PANEL	WRGB	WATER RESISTANT GYPSUM WALLBOARD
CLR	CLEAR	N/C	NOT IN CONTRACT	WS	WOOD SIDING
CMU	CONCRETE MASONRY UNIT	N.T.S.	NOT TO SCALE	WSEC	WASHINGTON STATE ENERGY CODE
COL	COLUMN	N/A	NOT APPLICABLE	WT	WEIGHT
CONC	CONCRETE	NO	NUMBER	WMS	WINDOW WALL SYSTEM
CONST	CONSTRUCTION	NOM	NOMINAL	XPS	EXTRUDED POLYSTYRENE RIGID INSULATION
CONT	CONTINUOUS	NSM	NATURAL STONE MATERIAL	Y.D.	YARD DRAIN
COORD	COORDINATE	NTS	NOTES	ε	CENTERLINE
CPT	CARPET	O.C.	ON CENTER		
CU	CUBIC	O.D.	OUTSIDE DIAMETER		
CV	COVER	OH	OVERHEAD		
CMS	CURTAIN WALL SYSTEM	O.R.D.	OVERFLOW ROOF DRAIN		
D	DEPTH	O.R.L.	OVERFLOW ROOF LEADER		
D.F.	DRINKING FOUNTAIN	O.S.	OVERFLOW SCUPPER		
D.S.	DOWNSPOUT	OPNG	OPENING		
DBL	DOUBLE	OPP	OPPOSITE		
DFT	DRAFTING	OSB	ORIENTED STRAND BOARD		
DIA	DIAMETER	OZ	OUNCE		
DM	DECORATIVE METAL	P.A.F.	POWER ACCUMULATED FASTENER		
DML	DECORATIVE METAL LAMINATE	P.T.	PRESSURE TREATED		
DN	DOWN	PAC	PRECAST ARCHITECTURAL CONCRETE		
DR	DOOR	PCC	PORTLAND CEMENT STUCCO		
DTL	DETAIL	PCSU	PRECAST CONCRETE SOLID UNIT		
DW	DISHWASHER	PERP	PERPENDICULAR		
EF	EXHAUST FAN	PLM	PLASTIC LAMINATE		
EP	ELECTRICAL PANEL	PLY	PLYWOOD		
EA	EACH	PP	POWER POLE		
EF	EPOXY FLOORING	PS	PROJECTION SCREEN		
EFS	EXTERIOR INSULATION FINISH SYSTEM	PSC	PLASTER SKIM COAT OVER CONCRETE		
EJ	EXPANSION JOINT	PSF	POUND PER SQUARE FOOT		
EJC	EXPANSION JOINT COVER	PSMU	PRECAST STONE MASONRY UNIT		
EL	ELEVATION	PT	PAINT		
ELECT	ELECTRICAL	PTD	PAPER TONEL DISPENSER		
ELEV	ELEVATOR	PTDR	PAPER TONEL DISPENSER WASTE RECEPTACLE		
ENV	ENVELOPE	QTY	QUANTITY		
EPS	EXPANDED POLYSTYRENE RIGID INSULATION	R	RADIUS		
EQ	EQUAL	R	RISER		
EQUIP	EQUIPMENT	R.D.	ROOF DRAIN		
ESB	EXTERIOR GYPSUM SOFFIT BOARD	RL	ROOF LEADER		
EXP	EXPANSION	R.O.	ROUGH OPENING		
EXT	EXTERIOR	R.O.M.	RIGHT OF WAY		
F.A.	FALL PROTECTION ANCHOR	RB	RUBBER BASE		
F.A.S.	FALL RESTRAINT ANCHOR STRAP	RCO	ROLLING COUNTER DOOR		
F.D.	FLOOR DRAIN	REF	REFRIGERATOR		
F.E.	FIRE EXTINGUISHER	RENF	REINFORCED		
F.H.	FIRE HYDRANT	REQD	REQUIRED		
F.I.C.	FURNISHED AND INSTALLED BY CONTRACTOR	RF	RUBBER FLOORING		
F.I.O.	FURNISHED AND INSTALLED BY OWNER	RLT	RELITE		
F.O.I.C.	FURNISHED BY OWNER INSTALLED BY CONTRACTOR	RPM	RESIN PANEL MATERIAL		
F.O.S.	FACE OF STRUCTURE	RSO	ROLLING SERVICE DOOR		
F.P.	FLAG POLE	RSL	RESILIOUS FLOORING		
FDN	FOUNDATION	RTR	RUBBER TREAD RISER		
FF	FACTORY FINISH	RTU	ROOF TOP UNIT		
FH	FULL HEIGHT	S	SOUND		
FIG	FIGURE	S.D.	SOAP DISPENSER		
FN	FINISH	S.O.G.	SLAB ON GRADE		
FLR	FLOOR	SAE	SLIDING AUTOMATIC ENTRANCE		
FP	FIREPROOFING	SC	SOLID CORE		
FRC	FIBER REINFORCED CEMENTITIOUS PANEL	SGH	SCHEDULE		
FRL	FIBER REINFORCED LAMINATE	SCR	SHOWER CURTAIN ROD		
FRNG	FRAYING	SD	SECTIONAL DOORS		
FRP	FIBER REINFORCED PANEL	SDG	SIDING		
FRSG	FIRE RATED SAFETY GLASS	SDT	STATIC DISPERSED TILE		
FRT	FIRE-RETARDANT TREATED	SF	SQUARE FOOT		
FT	FOOT / FEET	SFS	STOREFRONT SYSTEM		
FTG	FOOTING	SG	SAFETY GLASS		
G.A.	GYPSUM ASSOCIATION	SGS	SECURITY GRILLE SYSTEM		
G.F.C.I.	GOVERNMENT FURNISHED CONTRACTOR INSTALLED	SH	SOAP HOLDER		
G.F.G.I.	GOVERNMENT FURNISHED GOVERNMENT INSTALLED	SHC	SHOWER CURTAIN		
GA	GAUGE	SHT	SHEET		
GALV	GALVANIZED	SHTG	SHEATHING		
GB	GRAB BAR	SH	SIMILAR		
GC	GENERAL CONTRACTOR	SJ	SEISMIC JOINT		
GEN	GENERAL	SLR	SEALER		
GFRG	GLASS FIBER REINFORCED GYPSUM	SLS	SUNLIGHT SYSTEM		
GL	GLASS	SMU	STONE MASONRY UNIT		
GLB	GLUE LAMINATE BEAM	SND	SANITARY NAPKIN DISPENSER		
GSF	GROSS SQUARE FOOTAGE	SNR	SANITARY NAPKIN RECEPTACLE		
GT	GROUT	SNTD	SANITARY NAPKIN AND TAMPON DISPENSER		
GWB	GYPSUM WALL BOARD	SPEC	SPECIFICATIONS		
GYP	GYPSUM	SPGL	SPANDREL GLASS		
HB	HOSE END	SPHR	SINGLE PLY MEMBRANE ROOFING		
H.C.	HANDCAPPED	SO	SQUARE		
H.D.	HAND DRYER	SS	STAINLESS STEEL		
HC	HOLLOW CORE	SSP	SOLID SURFACE MATERIAL		
HDR	HEADER	SSMR	STANDING SEAM METAL ROOFING		
HDW	HARDWARE	ST	STONE		
HK	HOOK	STD	STANDARD		
HLB	HORIZONTAL LOUVER BLINDS	STL	STEEL		
		STN	STAIN		



HELIX DESIGN GROUP, INC.

ABBREVIATIONS AND NOTES

CITY OF FEDERAL WAY JOINT OPERATIONS & MAINTENANCE FACILITY

FEDERAL WAY, WASHINGTON

REVISION DATE

DATE JOB NO.

05.06.24 023-087

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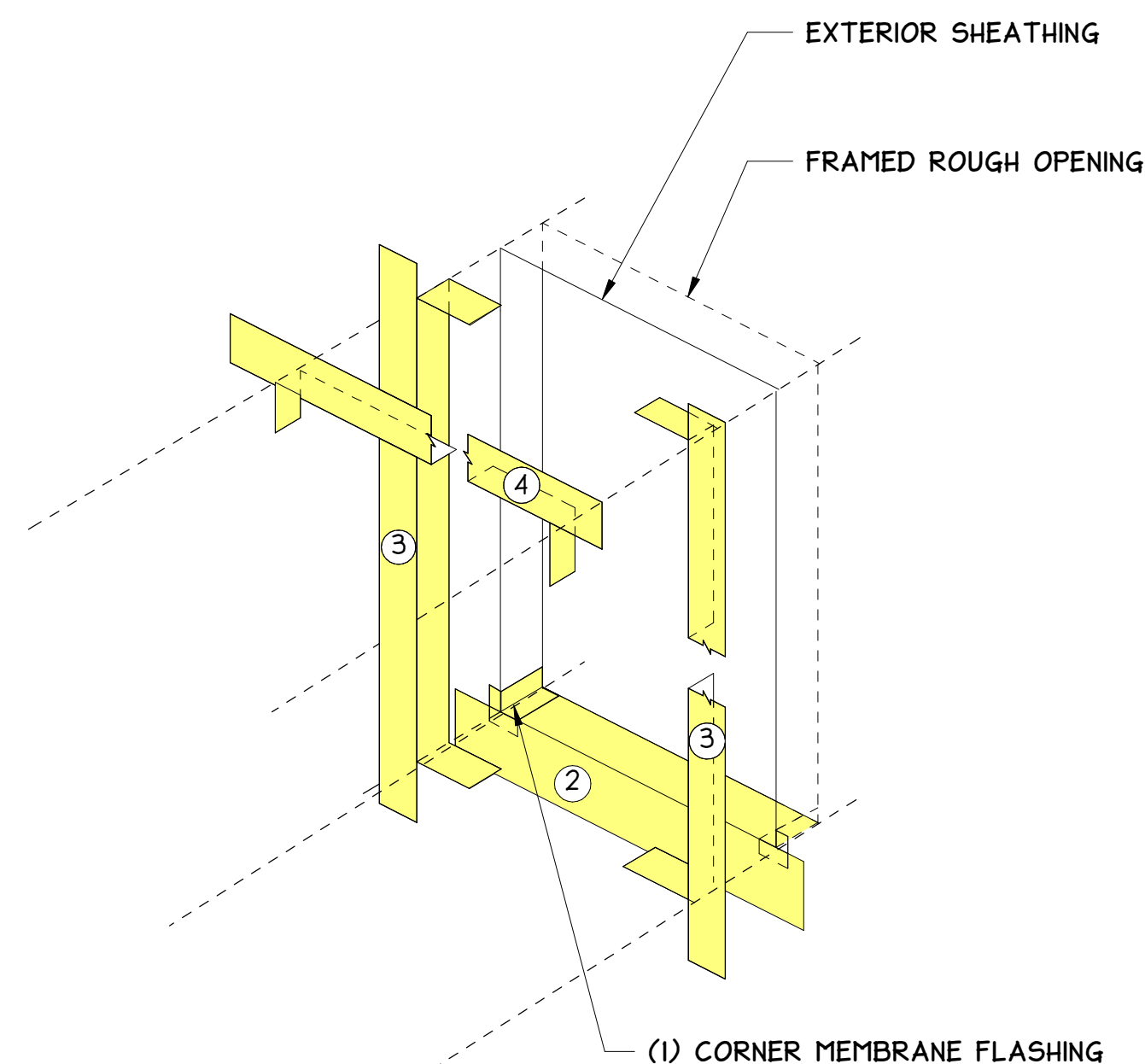
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BUILDING EXTERIOR OPENING PROTECTION LEGEND

WEATHER RESISTIVE BARRIER, MEMBRANE FLASHING AND METAL FLASHING INSTALLATION:

INSTALLATION AT COLD-FORMED METAL STUD FRAMING WALL TYPES FOR THE FOLLOWING:

- OPENING TYPES:
- CLERESTORY WINDOWS
 - STOREFRONT SYSTEM
 - HOLLOW METAL DOORS AND FRAMES
 - LOUVERS



INSTALLATION SEQUENCE:

- INSTALL MEMBRANE FLASHING AT EACH CORNER OF SILL [1] [5]
- INSTALL MEMBRANE FLASHING TO EXTERIOR SHEATHING AND ROUGH OPENING AT SILL [2] [2]
- INSTALL MEMBRANE FLASHING TO EXTERIOR SHEATHING AND ROUGH OPENING AT JAMBS [3] [2]
- INSTALL MEMBRANE FLASHING TO EXTERIOR SHEATHING AND ROUGH OPENING AT HEAD [4] [2] [3]

GENERAL NOTES:

- CONTRACT DOCUMENT INSTALLATION REQUIREMENTS MAY EXCEED WEATHER RESISTIVE BARRIER AND MEMBRANE FLASHING MANUFACTURER'S ROUGH OPENING PROTECTION INSTALLATION REQUIREMENTS BASED ON INSTALLATION SEQUENCE; MORE STRINGENT METHOD SHALL BE FOLLOWED; COMPLYING WITH WARRANTY REQUIREMENTS.
- SUBMIT SHOP DRAWINGS ILLUSTRATING INSTALLATION SEQUENCE AND MEMBRANE FLASHING INSTALLATION AT ROUGH OPENINGS.
- PREINSTALLATION MEETING IS REQUIRED FOR WEATHER RESISTIVE BARRIER AND MEMBRANE FLASHINGS. REVIEW INSTALLATION METHOD AND DETAILS DURING PREINSTALLATION MEETING.
- MOCK-UP: A FIELD MOCK-UP ILLUSTRATING WEATHER RESISTIVE BARRIER AND MEMBRANE FLASHING INSTALLATION IS REQUIRED. MOCK-UP SHALL INCLUDE SILL METAL FLASHING INSTALLATION.
- WEATHER RESISTIVE BARRIER, MEMBRANE FLASHING AND METAL FLASHING INSPECTIONS: WORK SHALL NOT BE DONE BEYOND THE POINT INDICATED IN EACH SUCCESSIVE INSPECTION WITHOUT FIRST OBTAINING THE APPROVAL OF THE ARCHITECT AND/OR THE BUILDING ENVELOPE CONSULTANT. ANY PORTIONS OF WORK THAT DO NOT COMPLY SHALL BE CORRECTED AND SUCH PORTION SHALL NOT BE COVERED OR CONCEALED UNTIL APPROVED BY THE ARCHITECT AND/OR THE BUILDING ENVELOPE CONSULTANT. INSPECTIONS SHALL INCLUDE THE FOLLOWING:
 - WEATHER RESISTIVE BARRIER AND MEMBRANE FLASHING INSPECTION: TO BE MADE AFTER ALL WEATHER RESISTIVE BARRIER AND MEMBRANE FLASHINGS ARE IN PLACE, BUT BEFORE INSTALLATION OF ROUGH OPENING METAL FLASHINGS AND WINDOW, DOOR OR LOUVERS ARE PLACED.
 - SILL METAL FLASHING AND FRAME SUB-SILL INSPECTION: TO BE MADE AFTER SILL METAL FLASHING AND FRAME SUB-SILL ARE IN PLACE, BUT BEFORE INSTALLATION OF WINDOW, DOOR AND LOUVERS ARE PLACED.
 - HEAD METAL FLASHINGS: TO BE MADE AFTER INSTALLATION OF HEAD METAL FLASHINGS, BUT BEFORE CONCEALMENT.
- MEMBRANE FLASHINGS: REFER TO BUILDING ASSEMBLY MATERIALS LEGEND ON SHEET G030 FOR PRODUCTS.

METAL FLASHING INSTALLATION:

INSTALLATION AT INSULATED METAL PANEL WALL TYPES FOR THE FOLLOWING:

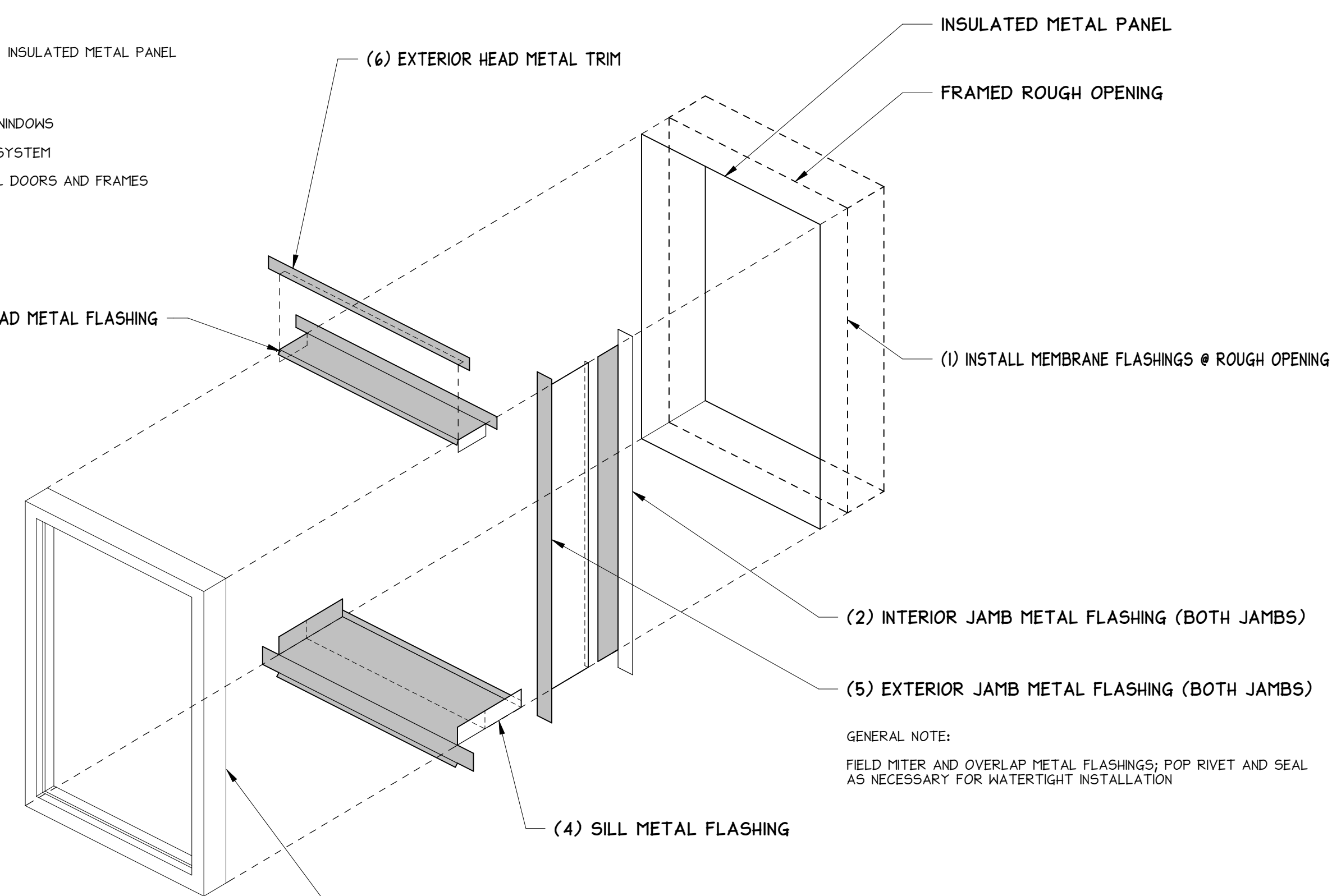
WALL TYPES:

- (K3) & (K4) INSULATED METAL PANEL

OPENING TYPES:

- CLERESTORY WINDOWS
- STOREFRONT SYSTEM
- HOLLOW METAL DOORS AND FRAMES
- LOUVERS

(3) INTERIOR HEAD METAL FLASHING



INSTALLATION SEQUENCE:

- KINGSPAN COMMERCIAL AND INDUSTRIAL WALL PANEL INSTALLATION GUIDE:
- INSTALL MEMBRANE FLASHINGS AT ROUGH OPENING.
 - INSTALL INTERIOR JAMB METAL FLASHING (BOTH JAMBS).
 - INSTALL INTERIOR HEAD METAL FLASHING WITH DRIP EDGE AND END TABS BENT DOWN.
 - INSTALL SILL METAL FLASHING WITH END TABS BENT UP.
 - INSTALL EXTERIOR JAMB METAL FLASHING (BOTH JAMBS).
 - INSTALL EXTERIOR HEAD METAL TRIM.
 - INSTALL EXTERIOR SEALANTS AND POP RIVETS FOR WATERTIGHT INSTALLATION.

INSTALLATION DETAILS:

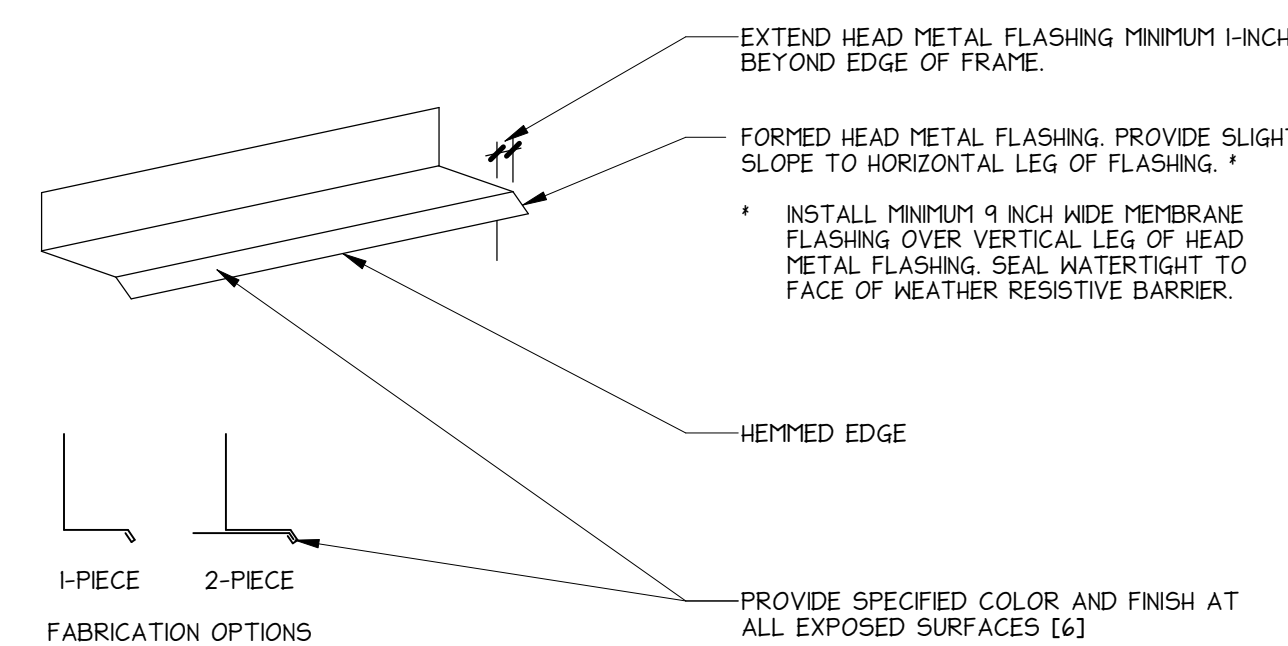
INSULATED METAL PANEL (IMP-1) & (IMP-2)
MANUFACTURER: KINGSPAN INSULATED PANELS

GENERAL NOTES:

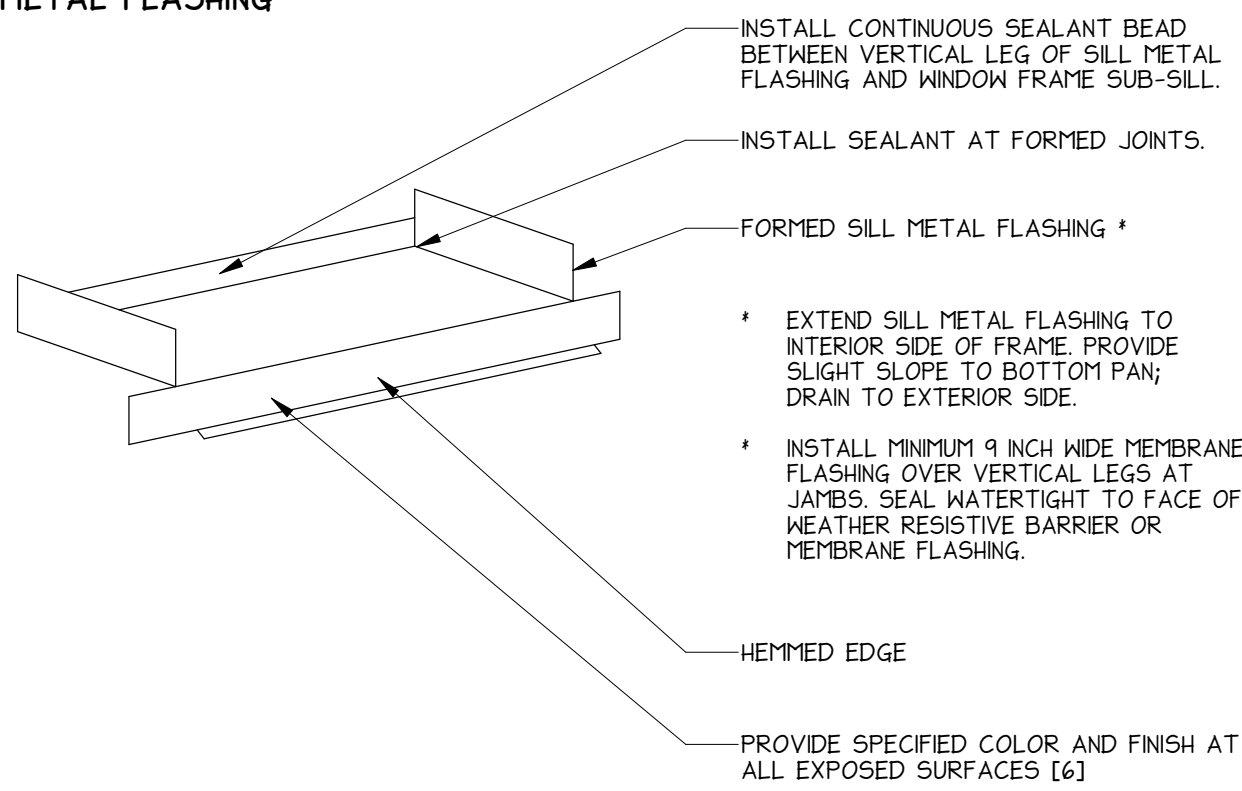
- CONTRACT DOCUMENT INSTALLATION REQUIREMENTS MAY EXCEED METAL FLASHING MANUFACTURER'S ROUGH OPENING PROTECTION INSTALLATION REQUIREMENTS BASED ON INSTALLATION SEQUENCE; MORE STRINGENT METHOD SHALL BE FOLLOWED; COMPLYING WITH WARRANTY REQUIREMENTS.
- SUBMIT SHOP DRAWINGS ILLUSTRATING INSTALLATION SEQUENCE AND METAL FLASHING AND SEALANT INSTALLATION AT ROUGH OPENINGS.
- PREINSTALLATION MEETING IS REQUIRED FOR METAL FLASHINGS AT BUILDING EXTERIOR ENVELOPE. REVIEW INSTALLATION METHOD AND DETAILS DURING PREINSTALLATION MEETING.
- MOCK-UP: A FIELD MOCK-UP ILLUSTRATING METAL FLASHING INSTALLATION IS REQUIRED.
- METAL FLASHING INSPECTIONS: WORK SHALL NOT BE DONE BEYOND THE POINT INDICATED IN EACH SUCCESSIVE INSPECTION WITHOUT FIRST OBTAINING THE APPROVAL OF THE ARCHITECT AND/OR THE BUILDING ENVELOPE CONSULTANT. ANY PORTIONS OF WORK THAT DO NOT COMPLY SHALL BE CORRECTED AND SUCH PORTION SHALL NOT BE COVERED OR CONCEALED UNTIL APPROVED BY THE ARCHITECT AND/OR THE BUILDING ENVELOPE CONSULTANT. INSPECTIONS SHALL INCLUDE THE FOLLOWING:
 - METAL FLASHING INSPECTION: TO BE MADE AFTER INSTALLATION OF INSULATED METAL PANELS, BUT PRIOR TO INSTALLATION OF OPENING FRAMES.
- INSTALL GENEROUS BED OF SEALANT AT FASTENER LOCATIONS PENETRATING THROUGH METAL FLASHINGS. SEAL WATERTIGHT. INSTALL CLEAR PLASTIC ROUND KEEP TUBES AT 3'-0" MAXIMUM SPACING AND WITHIN 4-INCHES OF JAMBS. LOCATE KEEP TUBES BETWEEN SILL METAL FLASHING AND WINDOW / LOUVER FRAME.
- MEMBRANE FLASHINGS: REFER TO BUILDING ASSEMBLY MATERIALS LEGEND FOR EACH DRAWING VOLUME.

SHEET METAL FLASHING FABRICATION:

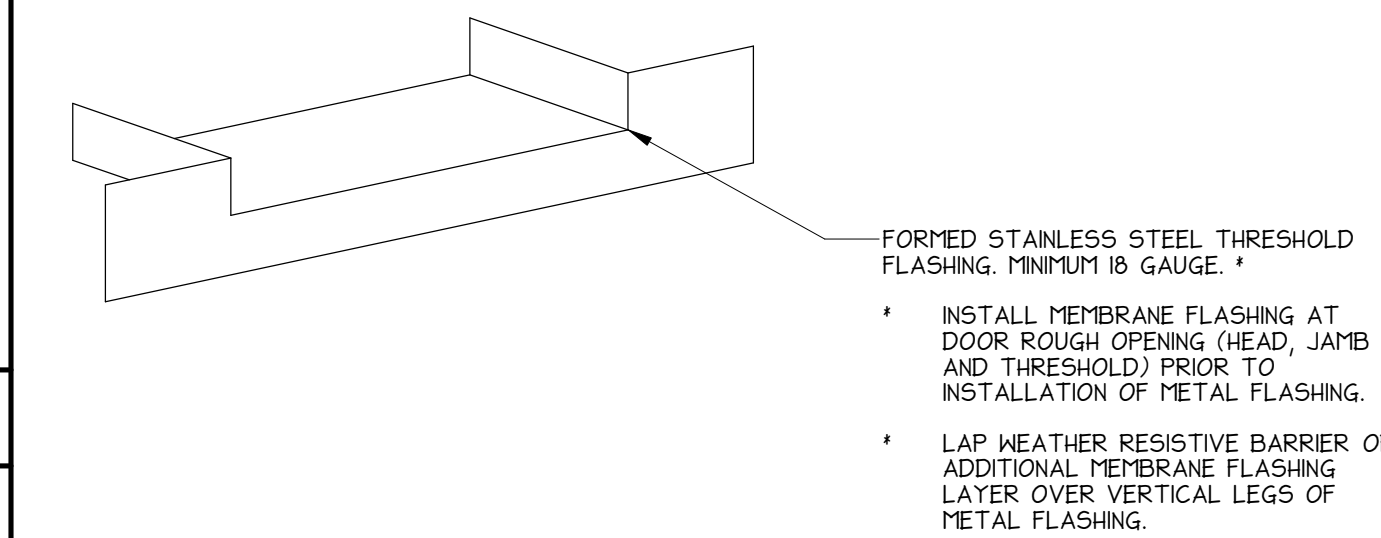
HEAD METAL FLASHING



SILL METAL FLASHING

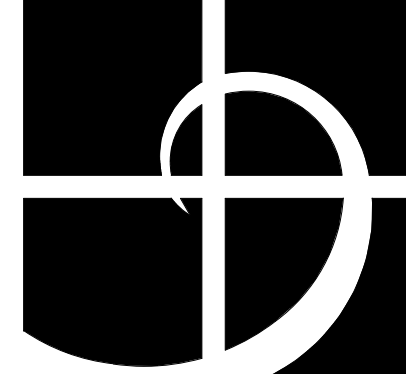


DOOR THRESHOLD METAL FLASHING

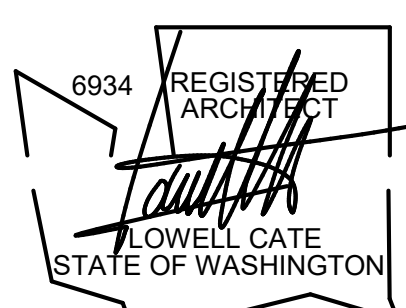


FOOTNOTES:

- CONTRACTOR SHALL INSTALL MEMBRANE FLASHING AT EXTERIOR WALL ROUGH OPENINGS EXTENDING FROM INSIDE FACE OF WALL ROUGH OPENING OVER FACE OF EXTERIOR SHEATHING WITH A MINIMUM COVERAGE OF 4 INCHES. COMPLYING WITH ASTM E2120. INSTALL MEMBRANE FLASHING WITH WATERTIGHT LAPS AND WITHOUT FISH MOUTHS. FISH MOUTHS MUST BE SLIT, PRESSED FLAT, AND COVERED WITH PATCH OF MEMBRANE THAT EXTENDS BEYOND DAMAGED AREA A MINIMUM OF 4 INCHES.
 - WEATHER RESISTIVE BARRIER MAY BE INSTALLED PRIOR TO INSTALLATION OF MEMBRANE FLASHINGS. CONFIRM COMPATIBILITY AND ADHESION OF MEMBRANE FLASHING TO WEATHER RESISTIVE BARRIER PRIOR TO INSTALLATION. COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS, SPECIFICATIONS AND STANDARD DETAILS FOR INSTALLATION REQUIREMENTS.
 - COORDINATE INSTALLATION SEQUENCE OF METAL FLASHING AT HEAD WITH INSTALLATION OF WINDOW, DOOR OR LOUVER FRAME; BASED ON FRAME TYPE, WALL ASSEMBLY CONSTRUCTION, MATERIALS AND FINISHES. INSTALL IN ACCORDANCE WITH CONTRACT DOCUMENT DETAILS AND APPROVED SHOP DRAWINGS.
 - INSTALL HEAD METAL FLASHING AT ALL EXTERIOR WINDOWS, DOORS AND LOUVERS. METAL FLASHING PROFILE / SHAPE AND DIMENSIONS MAY VARY DEPENDING ON EXTERIOR WALL ASSEMBLY (THICKNESS, MATERIALS AND FINISHES) AND FRAME POSITION WITHIN WALL OPENING. INSTALL IN ACCORDANCE WITH CONTRACT DOCUMENT DETAILS AND APPROVED SHOP DRAWINGS.
 - INSTALL SILL METAL FLASHING AT ALL EXTERIOR WINDOWS AND LOUVERS (EXCEPT NAIL-ON FLANGE TYPE). METAL FLASHING PROFILE / SHAPE AND DIMENSIONS MAY VARY DEPENDING ON EXTERIOR WALL ASSEMBLY (THICKNESS, MATERIALS AND FINISHES) AND FRAME POSITION WITHIN WALL OPENING. INSTALL IN ACCORDANCE WITH CONTRACT DOCUMENT DETAILS AND APPROVED SHOP DRAWINGS.
- SHEET METAL FLASHING THICKNESS GAUGE:
- | | | |
|-------------------|----------------------------|--------------------------------------|
| GALVANIZED STEEL: | MINIMUM 20 GAUGE (0.0359") | LEG 'A' IS LESS THAN 2-INCHES. |
| | MINIMUM 18 GAUGE (0.0478") | LEG 'A' IS 2-INCHES TO 4-INCHES MAX. |
| ALUMINUM: | MINIMUM 18 GAUGE (0.0403") | LEG 'A' IS LESS THAN 2-INCHES. |
| | MINIMUM 16 GAUGE (0.0508") | LEG 'A' IS 2-INCHES TO 4-INCHES MAX. |
- INSTALL SLOPED SUB-SILL PLATE: A CONTINUOUS SHAPED PRESSURE TREATED WOOD PLATE OR FORMED GALVANIZED SHEET STEEL BREAK SHAPE; SLOPE TOP PLANE OF PLATE TO EXTERIOR SIDE OF ROUGH OPENING. INSTALL SLOPED SUB-SILL PLATE AT SELLS PRIOR TO INSTALLATION OF MEMBRANE FLASHINGS AND SILL METAL FLASHING.
- INSTALL GENEROUS BED OF SEALANT AT FASTENER LOCATIONS PENETRATING THROUGH SILL METAL FLASHING SLOPED PAN. SEAL WATERTIGHT.
- INSTALL CLEAR PLASTIC ROUND KEEP TUBES AT 3'-0" MAXIMUM SPACING AND WITHIN 4-INCHES OF JAMBS. LOCATE KEEP TUBES BETWEEN SILL METAL FLASHING AND WINDOW FRAME SUB-SILL.
- INSTALL METAL FLASHING AT EXTERIOR DOOR OPENINGS ACCESSING UPPER STORY EXTERIOR DECKS AND PLAZA AREAS.
 - HEAD METAL FLASHING: ALL VISIBLY EXPOSED SURFACES OF HEAD METAL FLASHING SHALL BE OF COLOR AND FINISH SPECIFIED. CONTRACTOR OPTION TO PROVIDE SINGLE PIECE OR MULTIPLE PIECE HEAD METAL FLASHING BASED ON WALL OPENING INSTALLATION CONDITION AND REQUIREMENTS.



Helix design group



HELIX DESIGN GROUP, INC

LEGENDS AND NOTES

CITY OF FEDERAL WAY
JOINT OPERATIONS & MAINTENANCE FACILITY

FEDERAL WAY, WASHINGTON

REVISION DATE

DATE JOB NO.

05.06.24 023-087

BID SET

G035

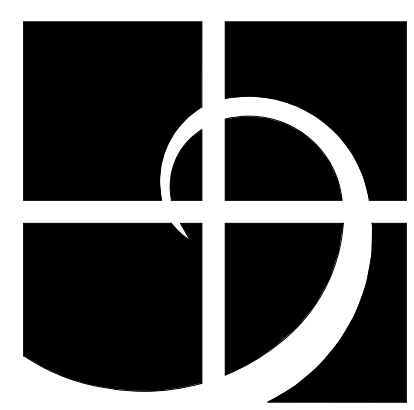
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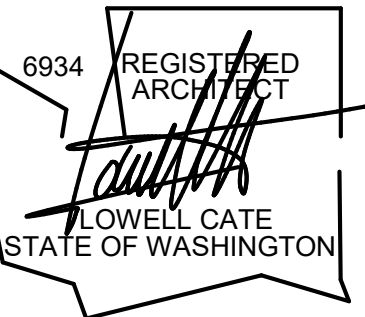
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Helix
design group



AMERICAN INSTITUTE OF ARCHITECTS



HELIX DESIGN GROUP, INC

COLORS
AND
MATERIALS
SCHEDULE

CITY OF
FEDERAL WAY
JOINT
OPERATIONS &
MAINTENANCE
FACILITY

FEDERAL WAY, WASHINGTON

REVISION DATE

DATE JOB NO.

05.06.24 023-087

BID SET

G040

COLORS AND MATERIALS SCHEDULE

SYMBOL	MATERIAL	MANUFACTURER	COLOR / PATTERN / TYPE	LOCATION
DIVISION 3 - CONCRETE				
CONC-1	CAST IN PLACE CONCRETE	-	NATURAL GRAY / SMOOTH FINISH / SEALER	EXPOSED VERTICAL SURFACES - EXTERIOR
CONC-2	CAST IN PLACE CONCRETE	-	NATURAL GRAY / LIGHT BROOM FINISH / SEALER	EXPOSED HORIZONTAL SURFACES - EXTERIOR
CONC-3	CAST IN PLACE CONCRETE	REDKLI	NATURAL GRAY / FORPLNER 1 (PELLINORI, OFFSET PLANKS FINISH) / PT-5	ART-SECURITY WALL - OFF SITE SIDE
CONC-4	CAST IN PLACE CONCRETE	-	NATURAL GRAY / FORPLNER 2 (LIGHT SANDBLAST FINISH) / PT-5	ART-SECURITY WALL - ONSITE SIDE AND BUILDING A RETANNING WALLS
DIVISION 4 - MASONRY				
CMU-1	CONCRETE MASONRY UNIT	MUTUAL MATERIALS - THREE COLOR BLEND	CASCADE BLEND, DRIFTHOOD 4 ONYX / EQUAL BLEND / GROUND FACE BLOCK	BUILDING A - TRASH 4 GENERATOR ENCLOSURE
M-1	CMU MORTAR	DESIGNFIX	COLOR: GRAY	CMU BLOCKS
DIVISION 5 - METALS				
MF-1	METAL FABRICATIONS	SHERWIN WILLIAMS	GALVANIZED / PT-2	
MF-2	METAL FABRICATIONS	SHERWIN WILLIAMS	GALVANIZED / PT-3	
STL-1	STRUCTURAL STEEL FRAMING	SHERWIN WILLIAMS	GALVANIZED / PT-3	
DIVISION 9 - FINISHES				
PT-2	PAINT	SHERWIN WILLIAMS	GALVANIZED - CHEERFUL (SW6403) SAFETY YELLOW	REFER TO SITE PLAN
PT-3	PAINT	SHERWIN WILLIAMS	GALVANIZED - WEB GRAY(SW7905)	REFER TO SITE PLAN
PT-5	PAINT	SHERWIN WILLIAMS	MSDOT COLOR - ST. HELMS, FLAT FINISH	ART-SECURITY WALL
PT-6	PAINT	SHERWIN WILLIAMS	COLOR TO MATCH METAL SECURITY FENCING COLOR	ART-SECURITY WALL SPRKES AND MISC FENCING ITEMS
DIVISION 10 - SPECIALTIES				
BB-1	BENCHES AND BIKE RACKS	LANDSCAPE FORMS	SELECTED FROM STANDARD COLORS SUBMITTED	AT BUILDING A - ENTRY PLAZA
FP-1	FLAG POLE	-	SATIN ALUMINUM FINISH	AT BUILDING A - ENTRY PLAZA
DIVISION 33				
PG-1	PEDESTRIAN ENTRANCE GATE	AMERISTAR FENCE PRODUCTS	BLACK / EXODUS EGRESS GATE	ADJACENT TO VEHICLE GATES
SF-1	SECURITY FENCE 4 SERVICE GATES	AMERISTAR FENCE PRODUCTS	BLACK / IMPASSE 1 ANTI-SCALE TRIDENT 3 RAL	SITE PERIMETER
TG-1	TRAFFIC GATE	AMERISTAR FENCE PRODUCTS	BLACK / TRANSPORT 15 ANTI-SCALE TRIDENT CANTILEVER GATE	TWO PRIMARY VEHICULAR GATES

COLOR AND MATERIALS NOTES

NOTES

(1) NOT USED.

SPECIFICATION NOTES

GENERAL NOTES:

1.

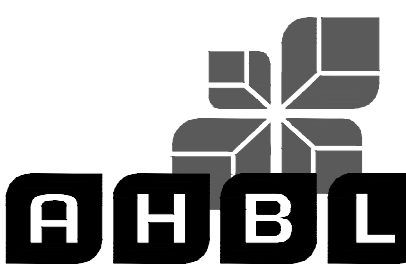


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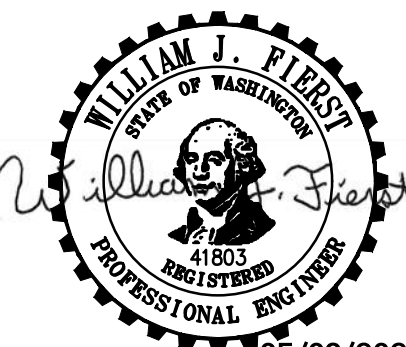


AMERICAN INSTITUTE OF ARCHITECTS

HELIX DESIGN GROUP, INC.



AHBL T A C O M A - SEATTLE - SPOKANE - TRICITIES
2215 North 30th Street, Suite 300 Tacoma, WA 98403
253.383.2422 Fax: 253.383.2423 www.aahl.com
AHBL NO: 2200572-10



05/09/2024

COVER SHEET

CITY OF FEDERAL WAY
JOINT
OPERATIONS &
MAINTENANCE
FACILITY

FEDERAL WAY, WASHINGTON

REVISION DATE

APPROVED

DATE

JOB NO. 023-087

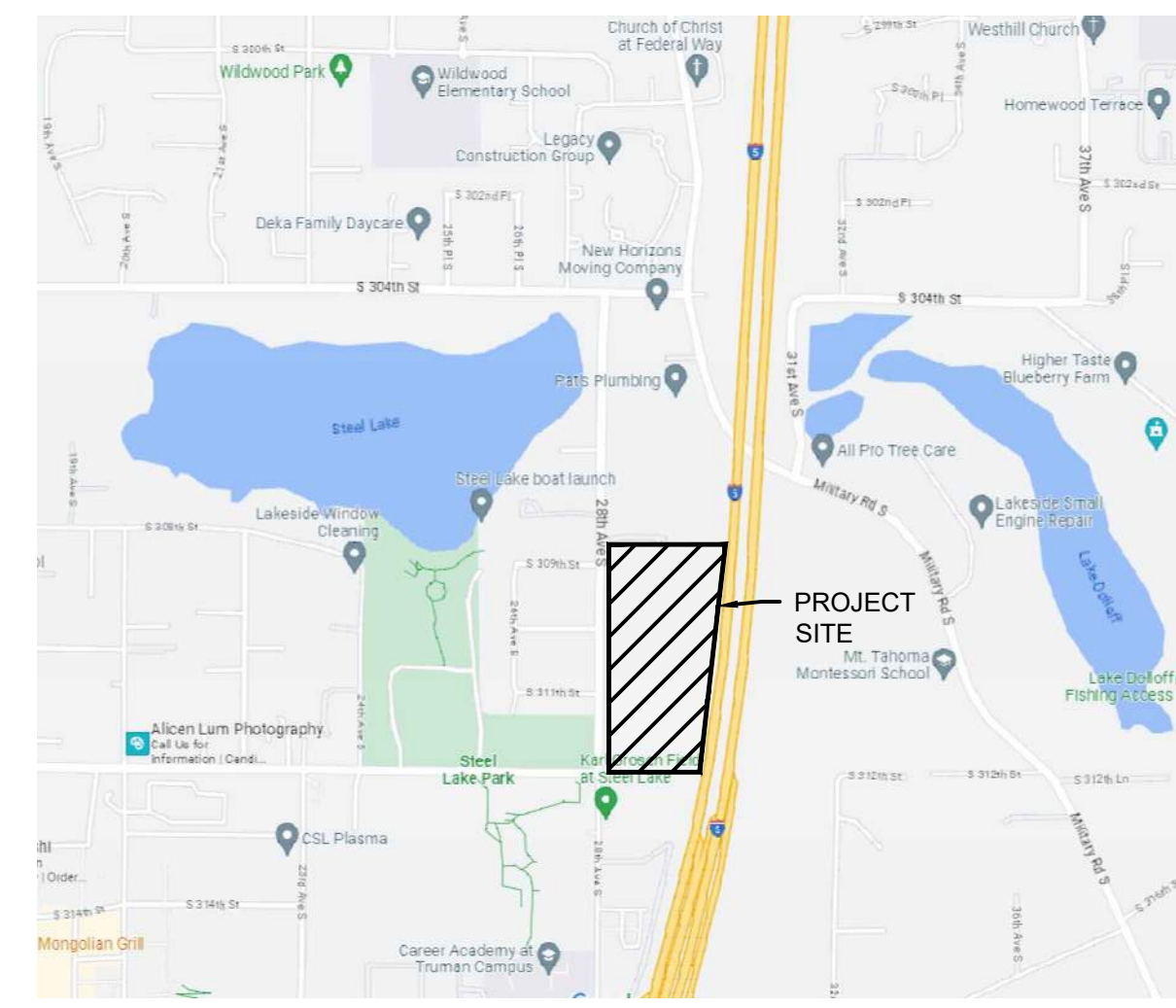
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C100

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VICINITY MAP

SHEET LIST TABLE

Table with 2 columns: Sheet Number, Sheet Title. Lists sheets C100 through S3300 including cover sheet, TESC and demolition plans, grading and storm drainage plans, water and sewer plans, and notes and details.

NOTE: THIS APPROVAL IS VOID 1 (ONE) YEAR AFTER APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE CITY ENGINEER.

PERMIT NO. 24-101093-EN
APPROVED
DATE

EXISTING LEGEND:

- SET NAIL AND WASHER
FOUND REBAR AND CAP
BOLLARD
MAIL BOX
SIGN AS NOTED
SANITARY SEWER MANHOLE
SANITARY SEWER CLEANOUT
STORM CATCH BASIN
STORM MANHOLE
ROOF DRAIN
CABLE RISER
GAS METER
GAS VALVE
GATE POST
POWER TRANSFORMER
GUY ANCHOR
UTILITY POWER POLE
POWER METER
FIRE HYDRANT
IRRIGATION CONTROL VALVE
HOSE BIB
WATER METER
WATER VALVE
HVAC UNIT
A=APPLE, B=BIRCH, F=FIR, P=PINE, HA=HAWTHORNE
H=HOLLY, M=MAPLE, O=OAK, U=UNKNOWN
D=STORM LINE
S=SANITARY SEWER LINE
G=GAS LINE
P=ELECTRICAL LINE
T=COMMUNICATIONS LINE
W=WATER LINE
IR=IRRIGATION PER RECORD DRAWING
OHP=OVERHEAD UTILITIES
FENCE
CONCRETE
ASPHALT
---XXX--- CONTOUR MAJOR INTERVAL
---xxx--- CONTOUR MINOR INTERVAL
--- --- PROPERTY / RIGHT-OF-WAY LINE

FILL SPECIFICATION

FILL MATERIAL SHALL NOT CONTAIN PETROLEUM PRODUCTS, OR SUBSTANCES WHICH ARE HAZARDOUS, DANGEROUS, TOXIC, OR WHICH OTHERWISE VIOLATE ANY STATE, FEDERAL OR LOCAL LAW, ORDINANCE, CODE, REGULATION, RULE, ORDER, OR STANDARD.

TRENCH NOTE

IF WORKERS ENTER ANY TRENCH OR OTHER EXCAVATION FOUR OR MORE FEET IN DEPTH THAT DOES NOT MEET THE OPEN PIT REQUIREMENTS OF WSDOT SECTION 2-09.3(3)(b), IT SHALL BE SHORED AND CRIBBED. THE CONTRACTOR ALONE SHALL BE RESPONSIBLE FOR WORKER SAFETY AND AHBL ASSUMES NO RESPONSIBILITY. ALL TRENCH SAFETY SYSTEMS SHALL MEET THE REQUIREMENTS OF THE WASHINGTON INDUSTRIAL SAFETY AND HEALTH ACT, CHAPTER 49.17 RCW. CHAPTER 49.17 RCW.

SITE DATA

APPROX. PROJECT AREA: 11.08 ACRES (482,450 SF)
TOTAL LOT AREA: 13.53 ACRES (589,563 SF)
EX. SITE IMPERVIOUS AREA: 4.13 ACRES (179,743 SF)
REPLACED IMPERVIOUS AREA: 0 ACRES (0 SF)
NEW IMPERVIOUS AREA: 6.63 ACRES (288,629 SF)
TOTAL ON-SITE IMPERVIOUS AREA (POST-DEVELOPMENT): 6.63 ACRES (288,629 SF)
MAXIMUM LOT COVERAGE: 49.97%

EARTHWORK QUANTITIES

CUT= 21,191 CY
FILL= 37,853 CY
NET IMPORT/EXPORT= 16,662 CY FILL
TOTAL EARTHWORK= 59,044 CY

NOTE: THE ABOVE QUANTITIES ARE ESTIMATES ONLY INTENDED TO THE PERMITTING PROCESS AND ARE NOT INTENDED TO BE USED BY THE CONTRACTOR FOR BIDDING PURPOSES. THE CONTRACTOR SHALL MAKE THEIR OWN EARTHWORK DETERMINATION.

UTILITIES/SERVICES

WATER: LAKEHAVEN UTILITY DISTRICT
SEWER: LAKEHAVEN UTILITY DISTRICT
POWER: PUGET SOUND ENERGY
TELEPHONE: CENTURYLINK

VERTICAL DATUM

NGVD 29, PER KPG SURVEY CITY OF FEDERAL WAY - STEEL LAKE TO DOWNTOWN TRAIL, SURVEY CONTROL SHEET DATED 04/17
BM 113 "MIC" AT THE INTERSECTION OF S 312TH ST & 18 AVE S.
N121113.51
E1274001.90
EL= 474.06'

BASIS OF BEARING

NAD 1983/11 WASHINGTON STATE PLANE NORTH PROJECTION, BASED ON GPS OBSERVATIONS USING WSRN AND GEOID 2012A. UNITS OF MEASUREMENT ARE US SURVEY FEET.

LEGAL DESCRIPTION

SEE TOPOGRAPHIC SURVEY.

SITE ADDRESS

31016 28TH AVENUE SOUTH
FEDERAL WAY, WA, 98003
PARCEL NUMBERS: 0921049026, 0921049198, 0921049250, 0921049009, 0921049170, 0921049085, 0921049115, 0921049095, 0921049240, 0921049239, 0921049329, 0921049084, 0921049075, 0921049314

CONSTRUCTION SPECIFICATION

CONSTRUCTION SHALL BE PERFORMED CONFORMING TO THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION 2021 STANDARD SPECIFICATIONS UNLESS OTHERWISE NOTED.

OWNER

CITY OF FEDERAL WAY
33325 8TH AVENUE SOUTH
FEDERAL WAY, WA 98003
CONTACT: DESIREE WINKLER
PH: (253)835.2711

CIVIL ENGINEER

AHBL, INC.
2215 NORTH 30TH STREET, SUITE 300
TACOMA, WASHINGTON 98403
CONTACT: BILL FIERST P.E. PRINCIPAL
PH: (253) 383.2422

ARCHITECT

HELIX DESIGN GROUP
6021 12TH STREET EAST, SUITE 201
FIFE, WASHINGTON, 98424-1376
CONTACT: JEFF RYAN
PH: (253) 922.9037

SURVEYOR

AHBL, INC.
2215 NORTH 30TH STREET, SUITE 300
TACOMA, WASHINGTON 98403
CONTACT: DAVID FOLLANSBEE PLS. PRINCIPAL
PH: (253) 383.2422

LANDSCAPE ARCHITECT

AHBL, INC.
2215 NORTH 30TH STREET, SUITE 300
TACOMA, WASHINGTON 98403
CONTACT: SARAH SINGLETON SCHROEDER
PH: (253) 383.2422

GEOTECHNICAL ENGINEER

MIGIZI GROUP, INC.
201 160TH STREET SOUTH #401
SPANAWAY, WA 98387
CONTACT: JAMES BRIGHAM, P.E.
PH: (253) 537.9400

UTILITY NOTE

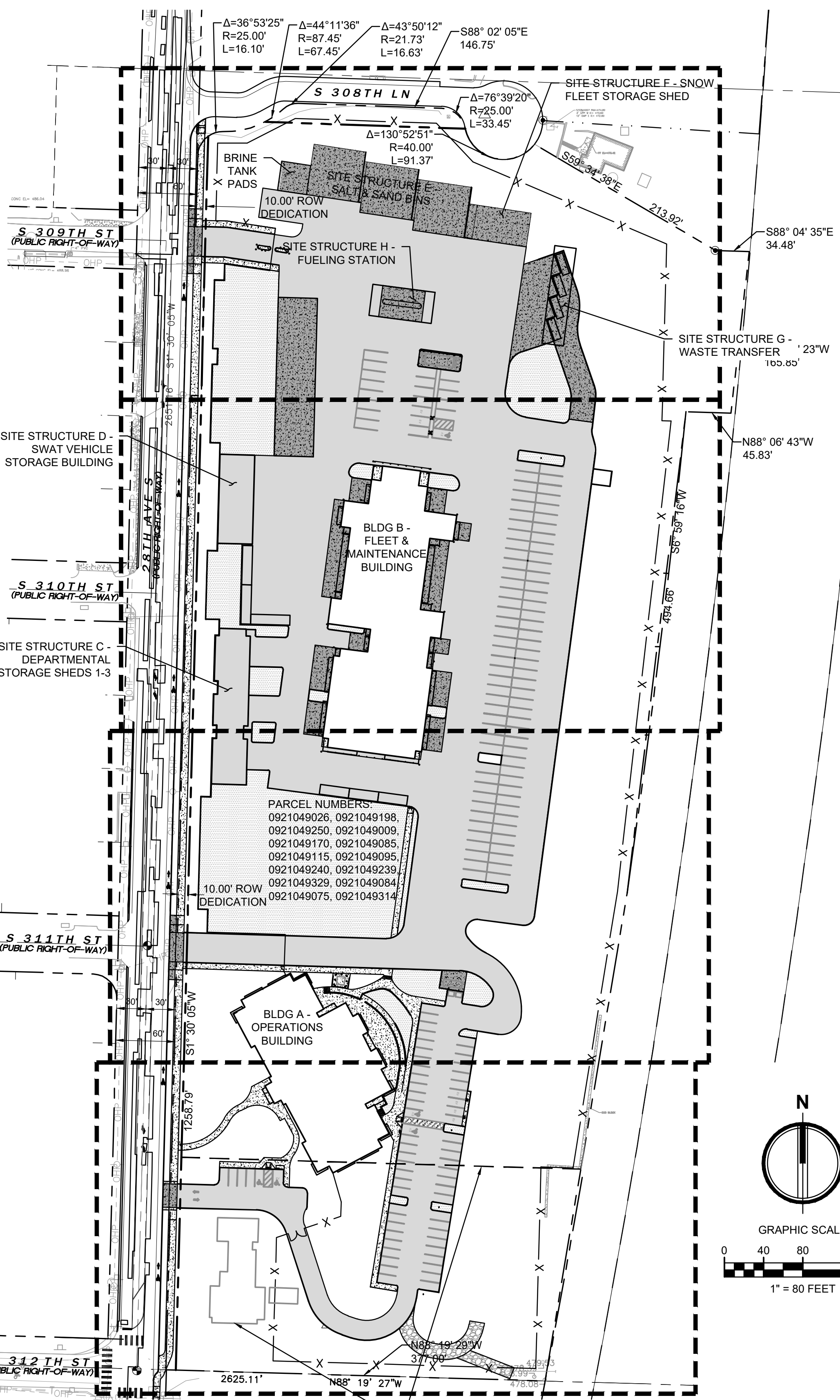
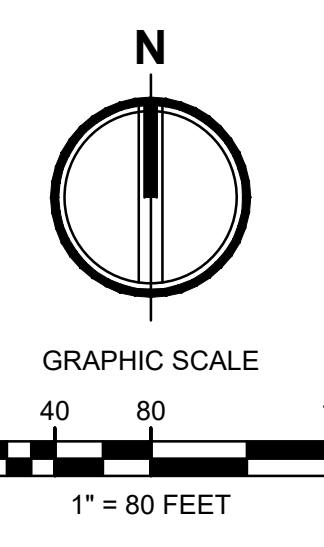
THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES THAT INCUR DUE TO THE CONTRACTOR'S FAILURE TO LOCATE EXACTLY AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. AHBL ASSUMES NO LIABILITY FOR THE LOCATION OF UNDERGROUND UTILITIES.

TOPOGRAPHIC NOTE

THE EXISTING CULTURAL AND TOPOGRAPHIC DATA SHOWN ON THESE DRAWINGS HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, AHBL CANNOT ENSURE ACCURACY AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THAT INFORMATION OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

AUTOCAD FILE:

AN AUTOCAD DRAWING FILE IS AVAILABLE TO ASSIST WITH SITE LAYOUT. PLEASE NOTE THAT ELECTRONIC FILES ARE PROVIDED FOR CONTRACTOR'S CONVENIENCE AND SHALL NOT REPLACE NOR BE USED TO SUBSTITUTE THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR PROJECT LAYOUT ACCORDING TO CONTRACT DOCUMENTS AND COST FOR ELECTRONIC AUTOCAD FILES.
PHONE: (253) 383-2422

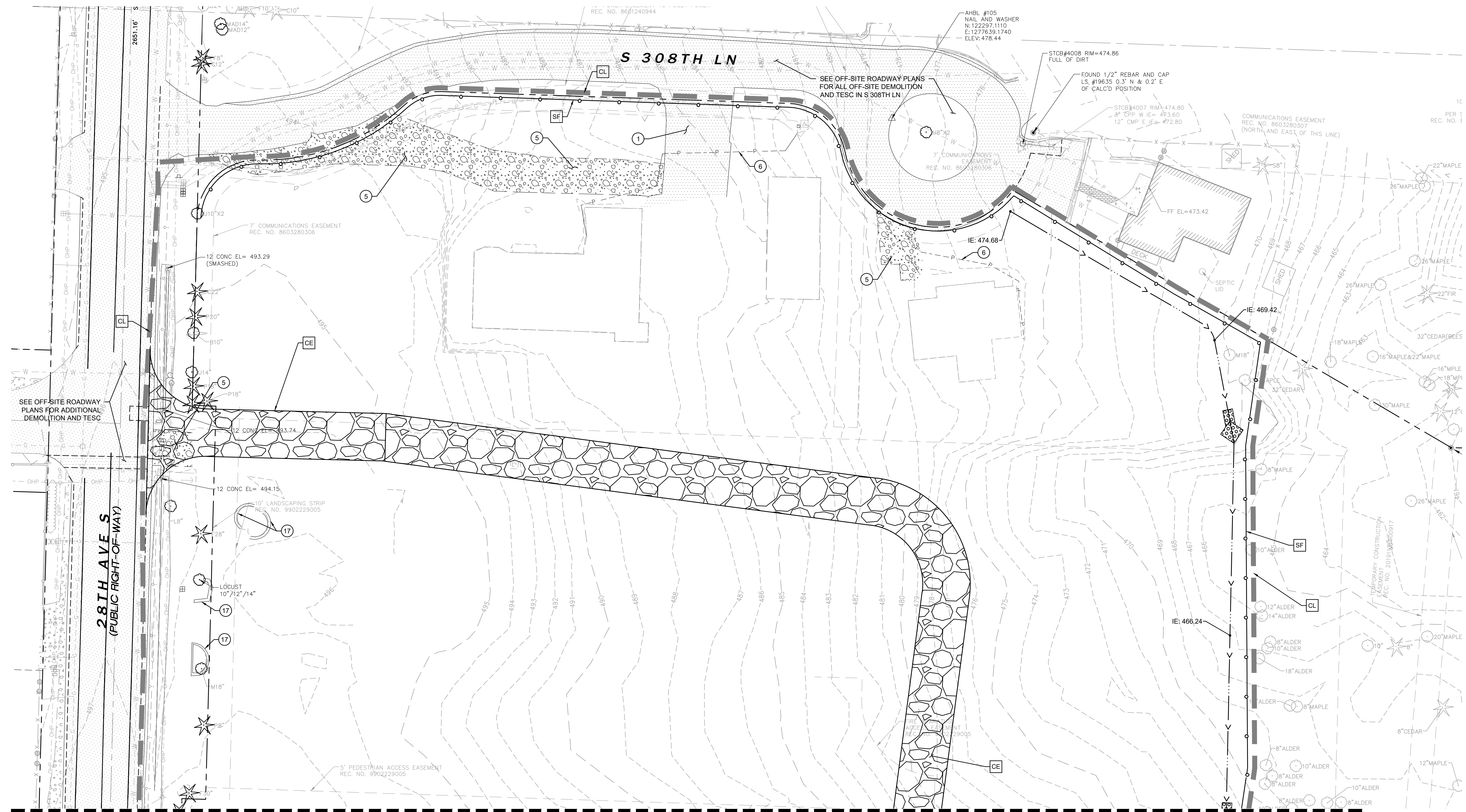


EXISTING FEATURES SOUTH OF THIS LINE SHALL REMAIN IN PLACE UNTIL NEW FACILITIES ARE CONSTRUCTED

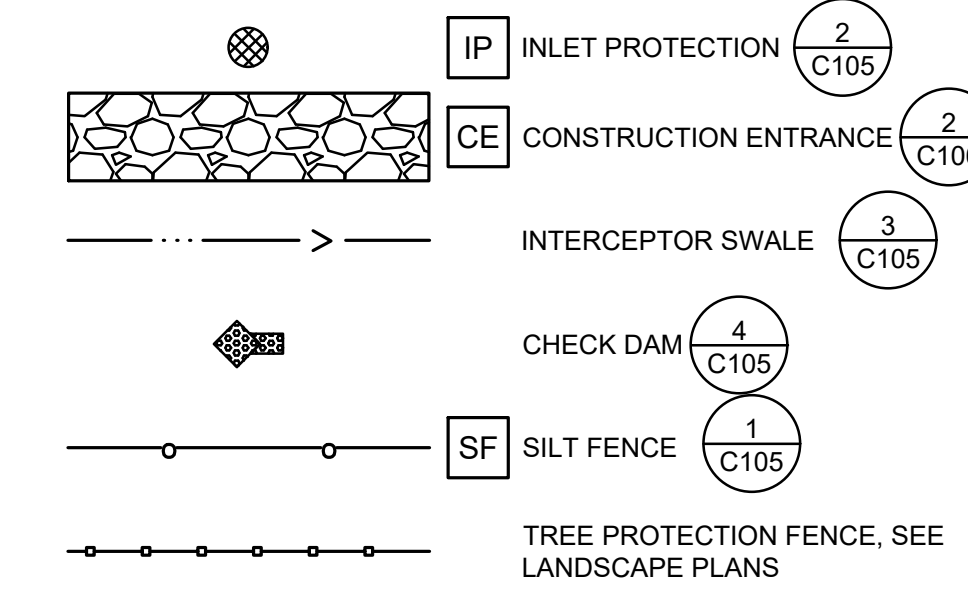
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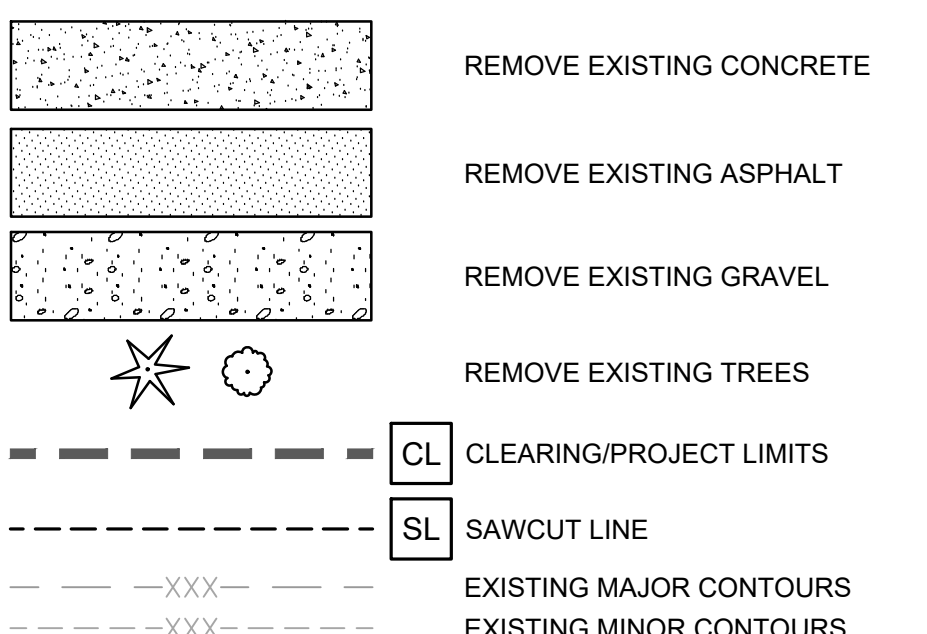
UNOFFICIAL COPY Official bid documents, open holder's list, and addenda (if applicable) are available on BSWA.com



TESC LEGEND:



DEMOLITION LEGEND:

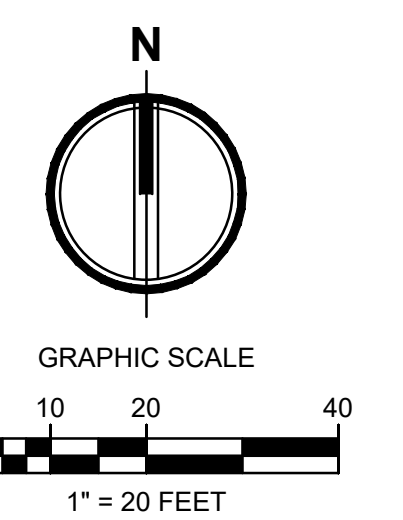


KEYNOTES:

- 1 DEMOLISH EX. ASPHALT PAVEMENT
2 DEMOLISH EX. CONCRETE PAVEMENT
3 DEMOLISH EX. FENCE
4 DEMOLISH EX. BUILDING AND ALL APPURTENANCES
5 DEMOLISH EX. GRAVEL SURFACING
6 DEMOLISH EX. ELECTRICAL CONDUIT OR ELECTRICAL STRUCTURE
7 DEMOLISH EX. SANITARY SEWER STRUCTURE AND ASSOCIATED SANITARY SEWER PIPE
8 DEMOLISH EX. CATCH BASIN
9 DEMOLISH EX. STORM LINE
10 DEMOLISH EX. GAS LINE
11 DEMOLISH EX. SITE FEATURE
12 TEMPORARY STORMWATER TANK
13 TEMPORARY STORM PIPE AND CB. REMOVE PRIOR TO PROJECT COMPLETION
14 TEMPORARY DISPERSION TRENCH
15 DEMOLISH EX. GAS METER
16 DEMOLISH EX. GATE
17 DEMOLISH EX. WALL
18 PUMP AND PIPE STORMWATER TO BAKER TANKS. THE CONTRACTOR SHALL PROVIDE THE PUMPS AND PIPES NECESSARY TO PUMP STORMWATER TO BAKER TANKS.
19 EXISTING TREE CRITICAL ROOT ZONE: NO EQUIPMENT, EXCAVATION, OR STORAGE OF MATERIALS WITHIN TREE PROTECTION FENCE. SEE LANDSCAPE PLANS.

NOTES

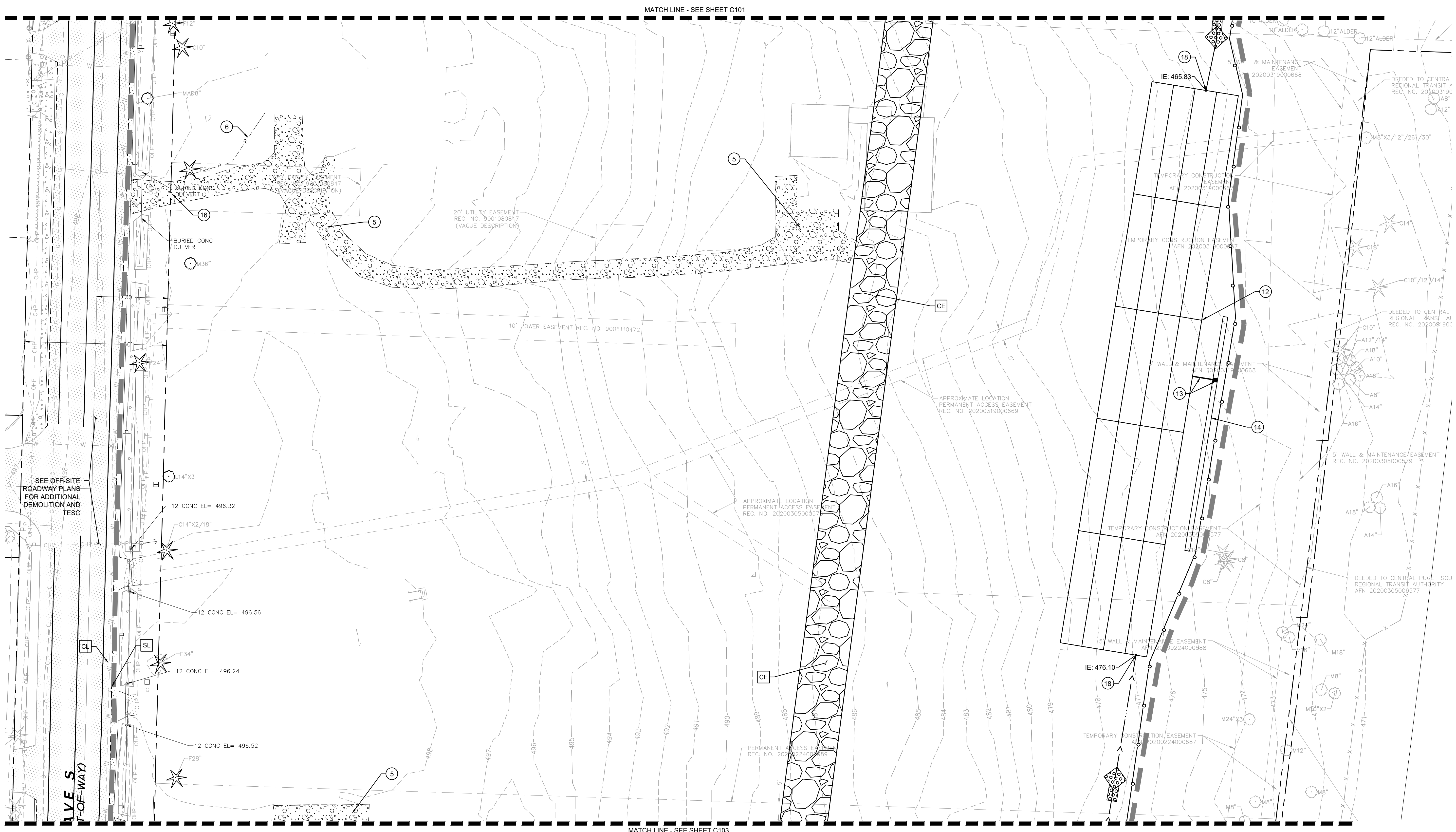
- 1. EROSION CONTROL MEASURES SHALL BE PROVIDED IMMEDIATELY AT THE COMMENCEMENT OF CONSTRUCTION. SEE EROSION CONTROL NOTES ON SHEET C105 FOR ADDITIONAL INFORMATION.
2. HYDROSEED SHALL BE APPLIED TO ALL DISTURBED AREAS PER HYDROSEED NOTES ON SHEET C105.
3. EROSION CONTROL MEASURES ARE NOT LIMITED TO THE ITEMS SHOWN.
4. DEMOLISH TEMPORARY STRUCTURES AND PIPES AT THE COMPLETION OF THE PROJECT.
5. SEE LANDSCAPE ARCHITECTURE PLANS FOR TREE PROTECTION FENCE.
6. THE CONTRACTOR SHALL ENSURE SEDIMENT LADEN AND TURBID STORMWATERS ARE NOT RELEASED FROM THE SITE. THE CONTRACTOR SHALL ADJUST STORMWATER MEASURES TO ENSURE NO SUCH RELEASES OCCUR.



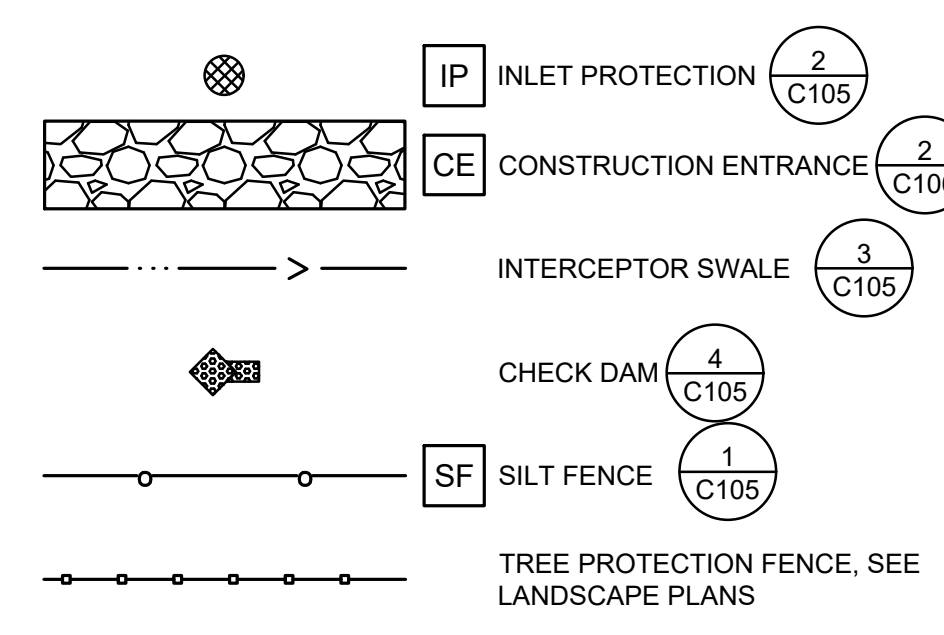
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PERMIT NO. 24-101093-EN
APPROVED
DATE

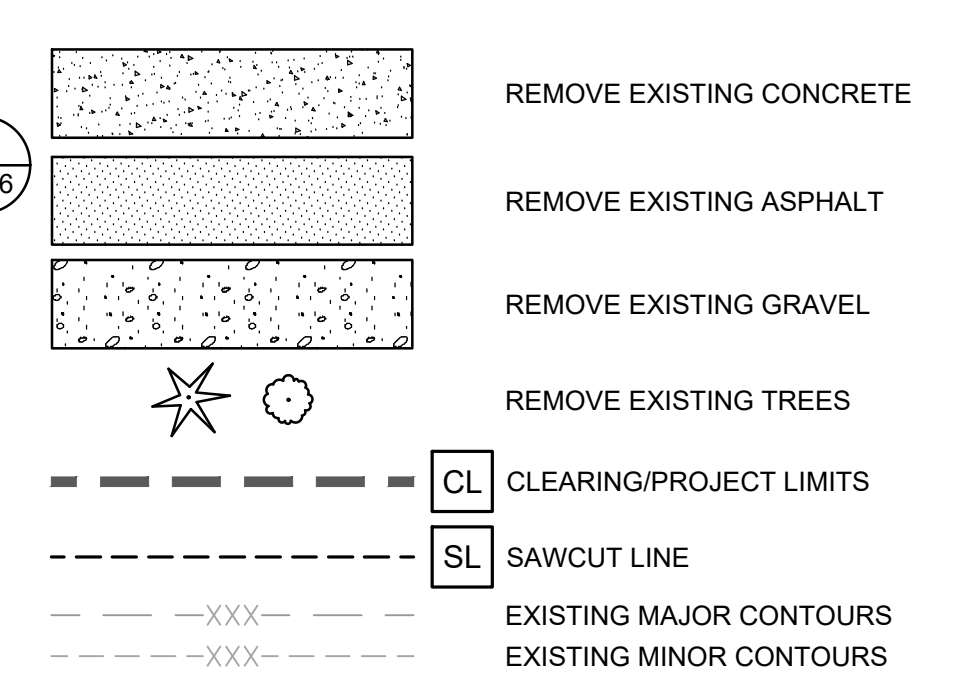
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DEMOLITION LEGEND:

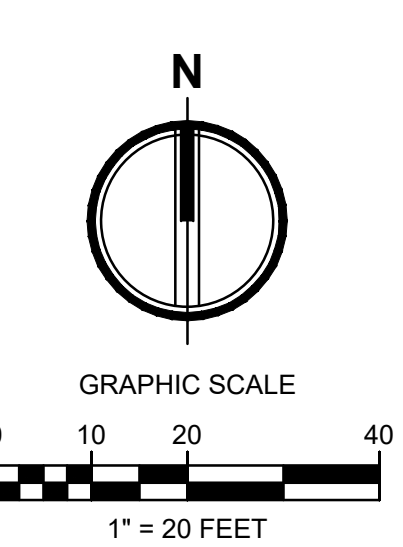


KEYNOTES:

- 1 DEMOLISH EX. ASPHALT PAVEMENT
2 DEMOLISH EX. CONCRETE PAVEMENT
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19 EXISTING TREE CRITICAL ROOT ZONE: NO EQUIPMENT, EXCAVATION, OR STORAGE OF MATERIALS WITHIN TREE PROTECTION FENCE. SEE LANDSCAPE PLANS.

NOTES

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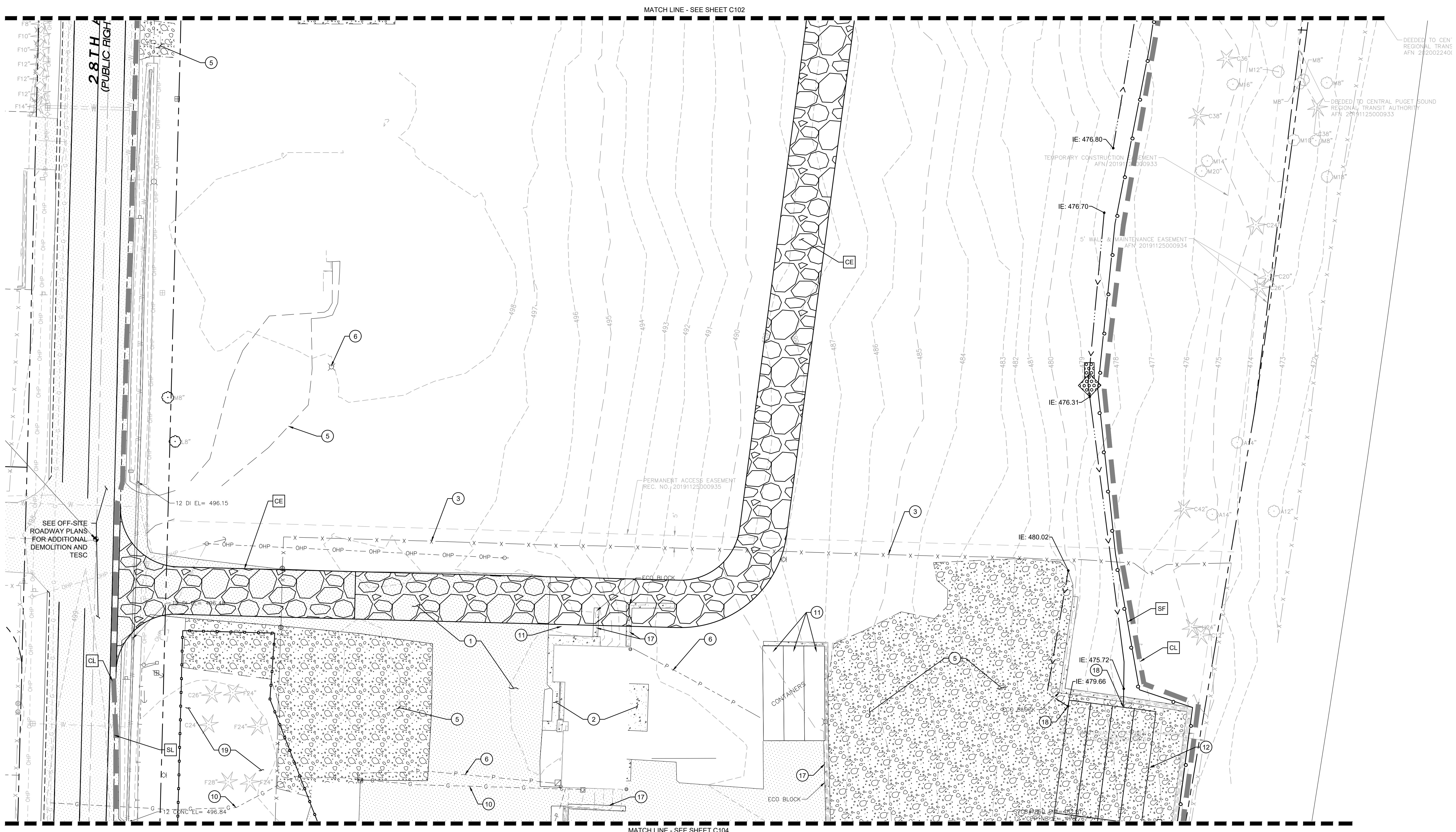
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TESC AND DEMOLITION PLAN

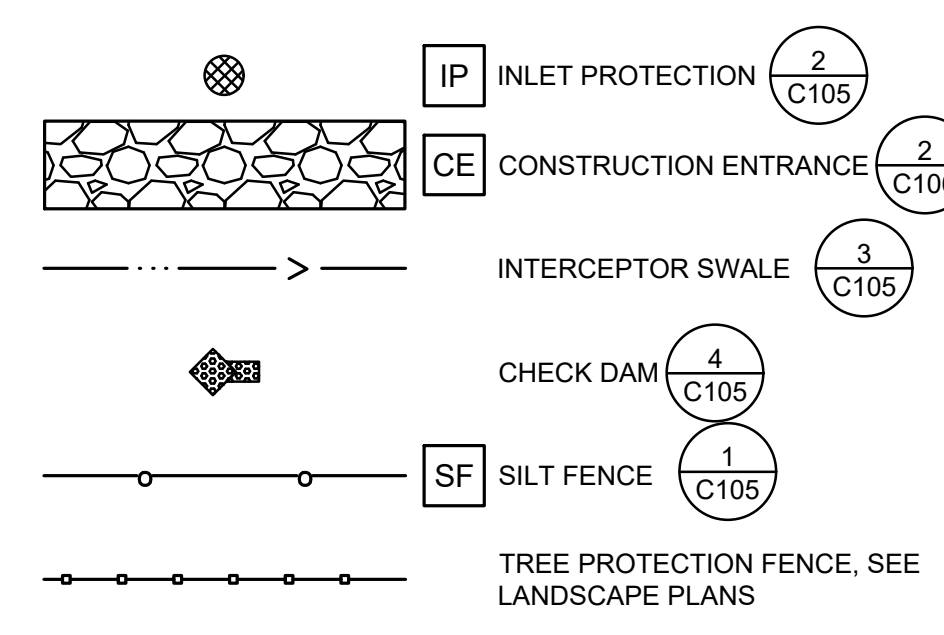
CITY OF FEDERAL WAY JOINT OPERATIONS & MAINTENANCE FACILITY

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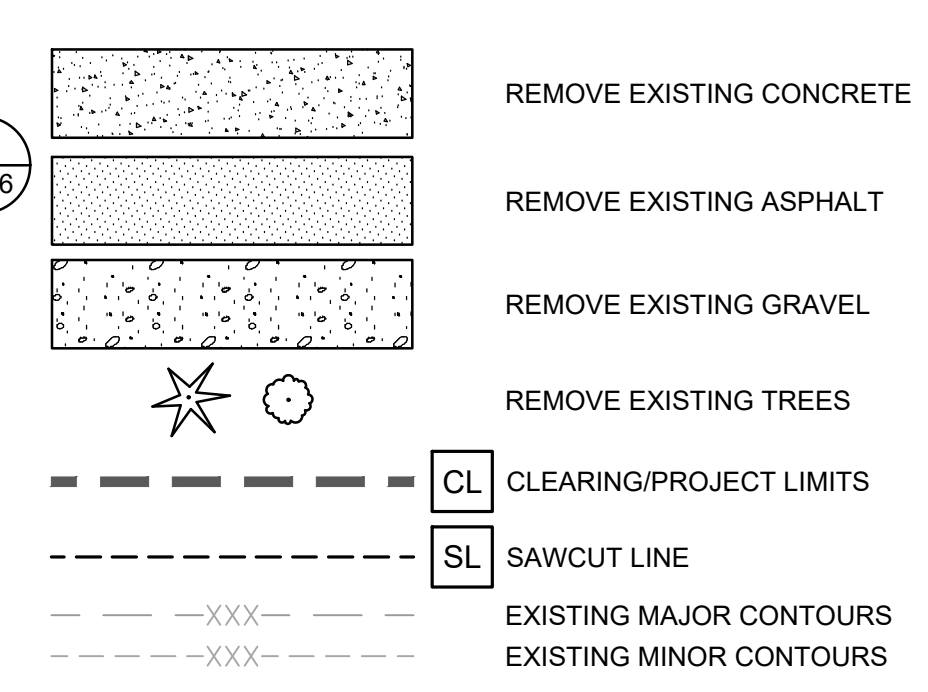
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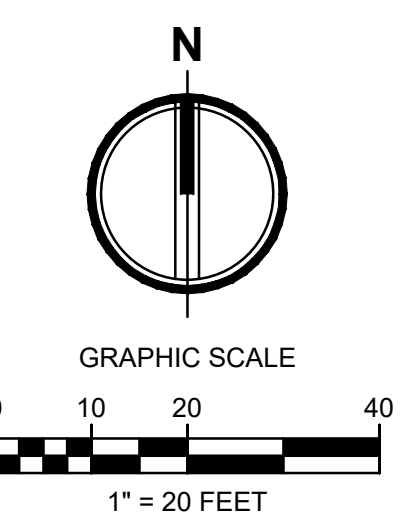


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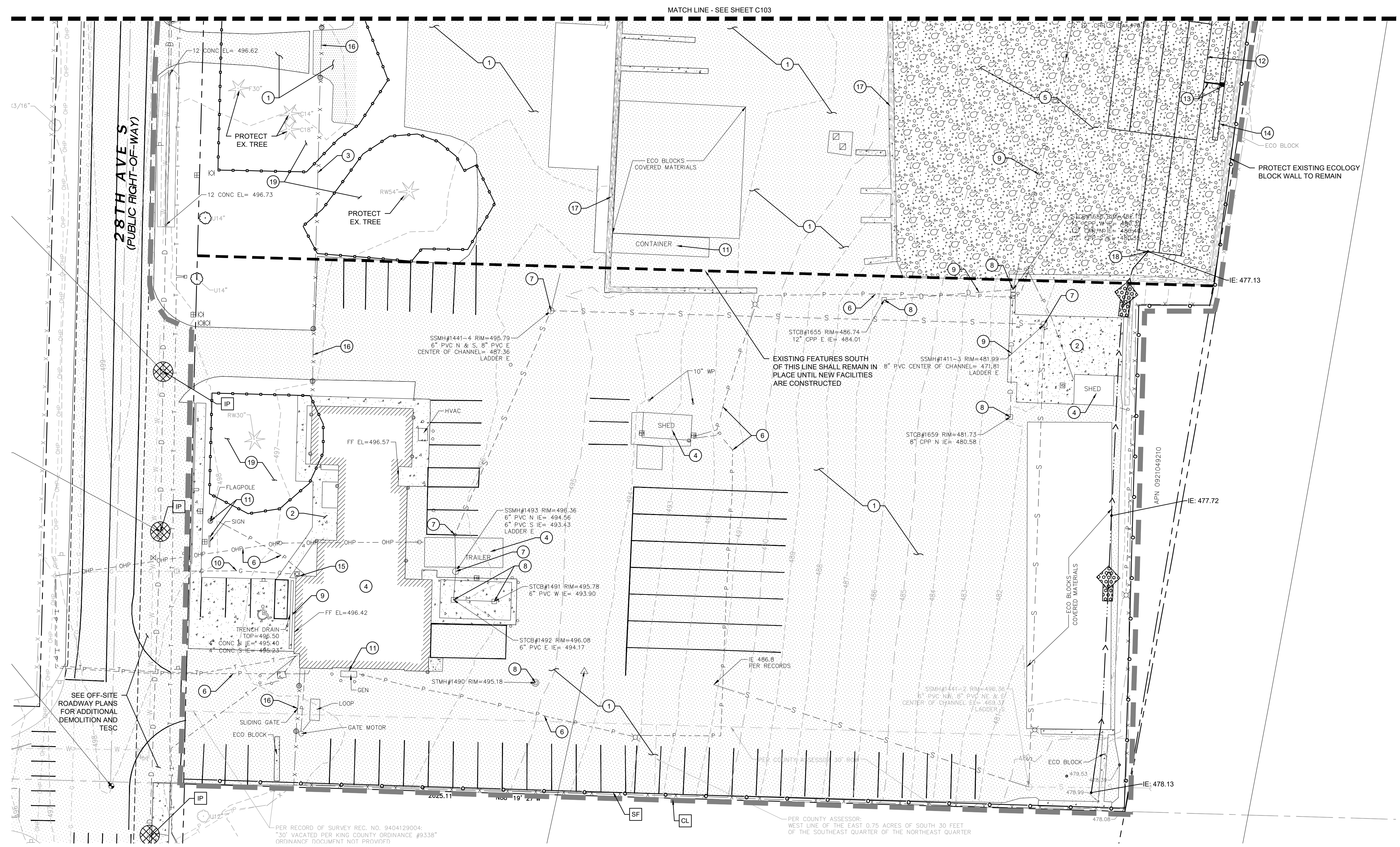
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TESC AND DEMOLITION PLAN

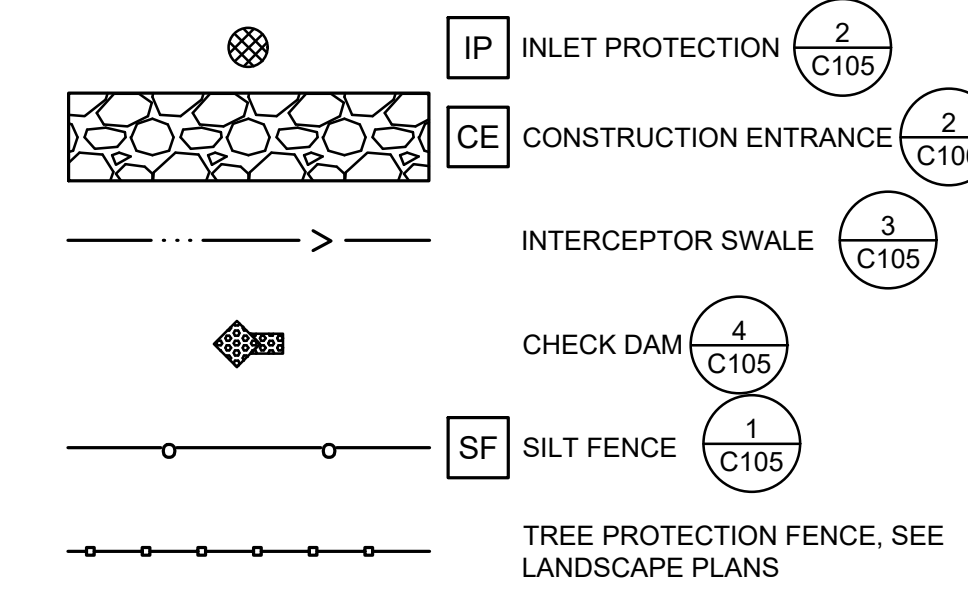
CITY OF FEDERAL WAY JOINT OPERATIONS & MAINTENANCE FACILITY

Table with columns: REVISION, DATE. Includes job number and bid set information.

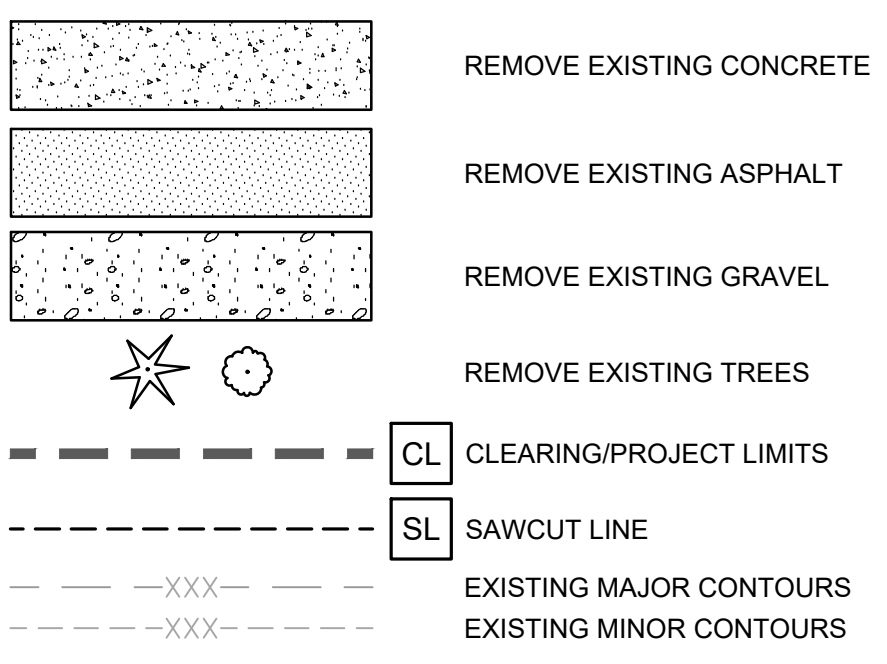
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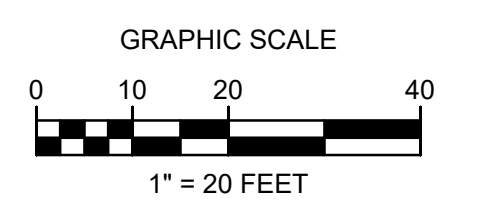
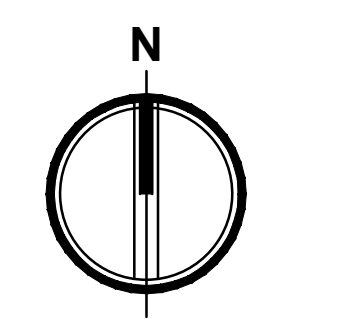


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PERMIT NO. 24-101093-EN

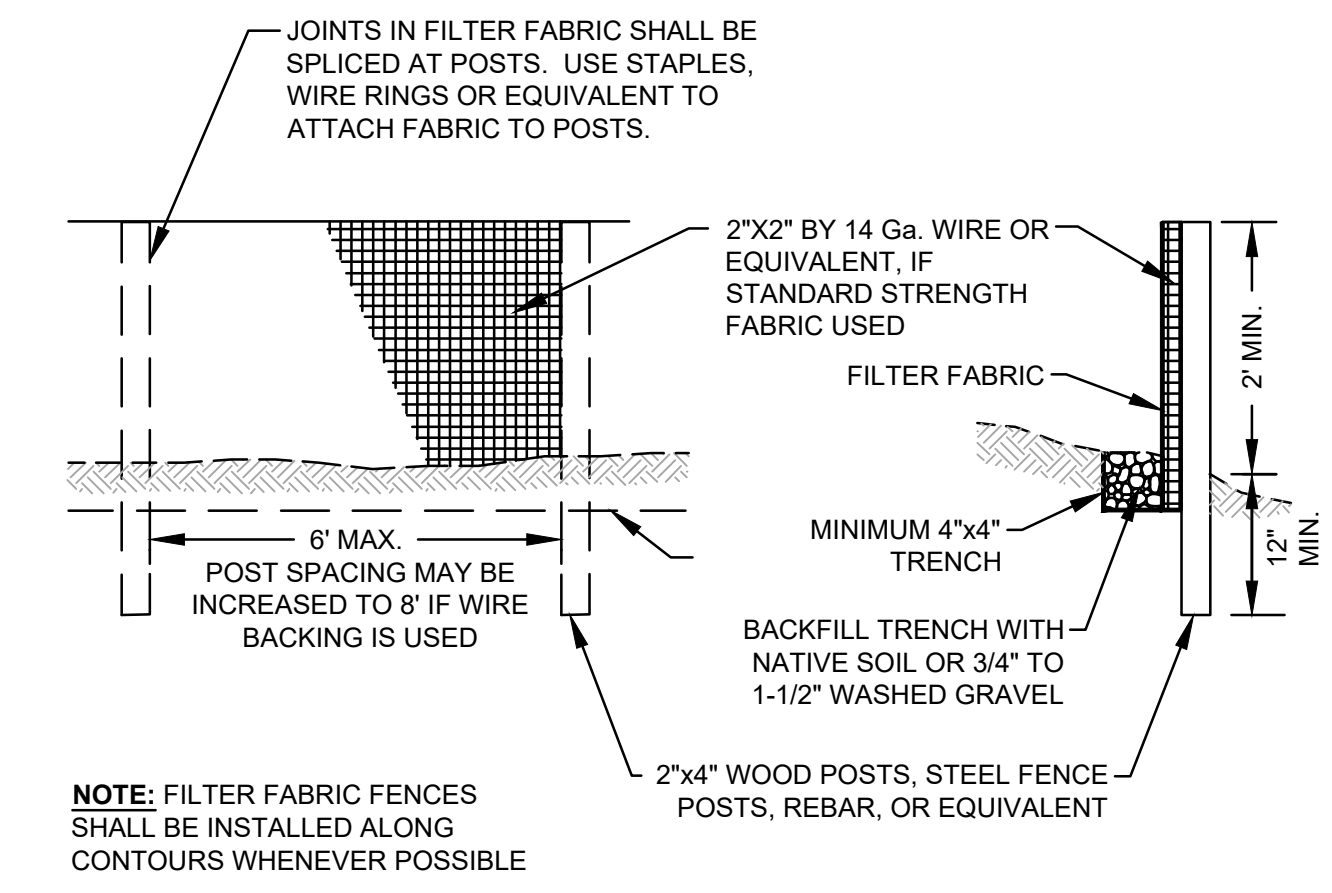
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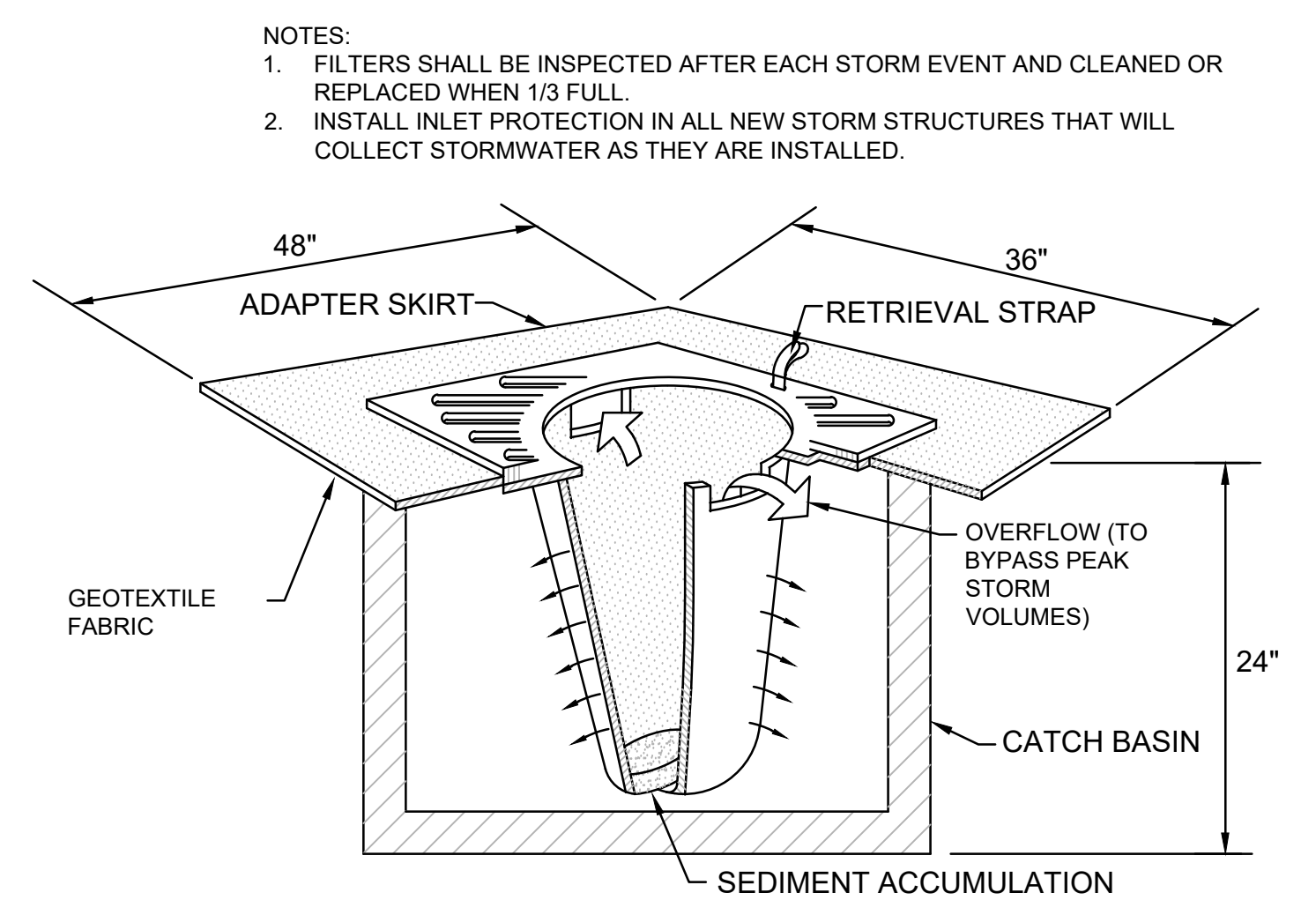
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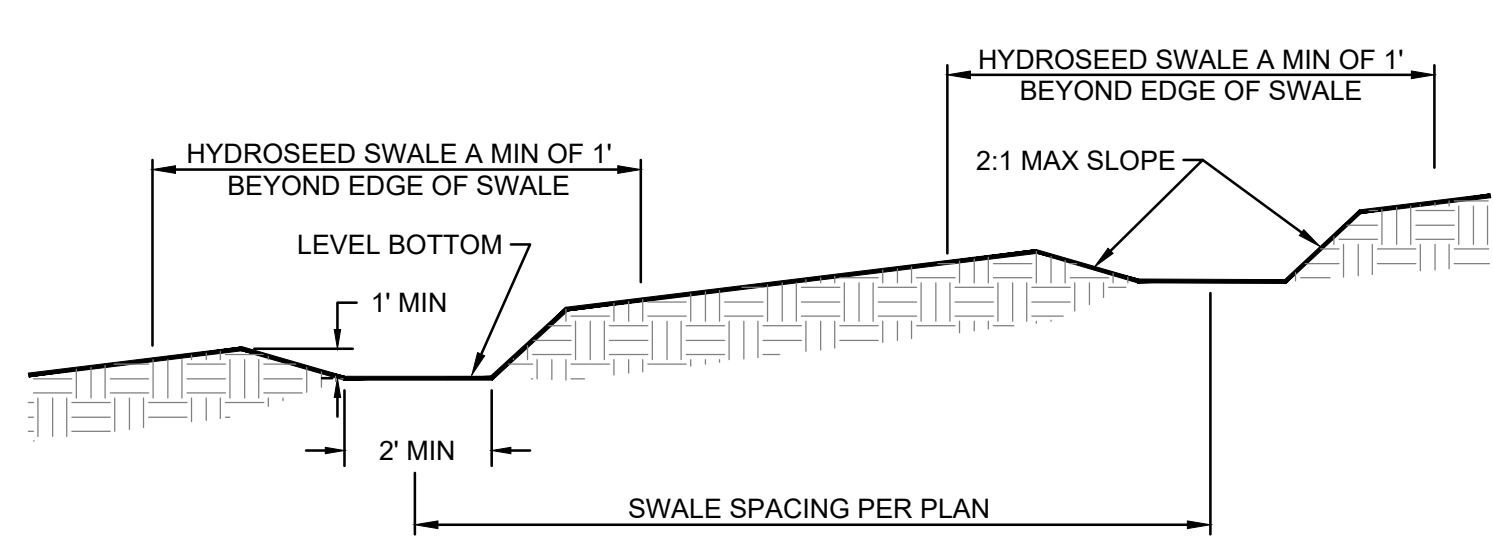
- 1. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM SIX-INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST.
2. THE SILT FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS (WHERE FEASIBLE), THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF 8 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12")
3. A TRENCH SHALL BE EXCAVATED, ROUGHLY FOUR INCHES WIDE AND FOUR INCHES DEEP, UPSLOPE AND ADJACENT TO THE WOOD POST TO ALLOW THE FILTER FABRIC TO BE BURIED.
4. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND EIGHT INCHES OF THE FILTER FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN THIRTY SIX INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
5. THE TRENCH SHALL BE BACKFILLED WITH NATIVE MATERIAL OR 3/4" TO 1-1/2" WASHED GRAVEL.
6. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
7. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
8. GEOTEXTILE FOR HIGH VISIBILITY SILT FENCE SHALL BE COLOR ORANGE, SEE WSDOT STANDARD SPECIFICATION SECTION 9-33.2 (1), TABLE 6.



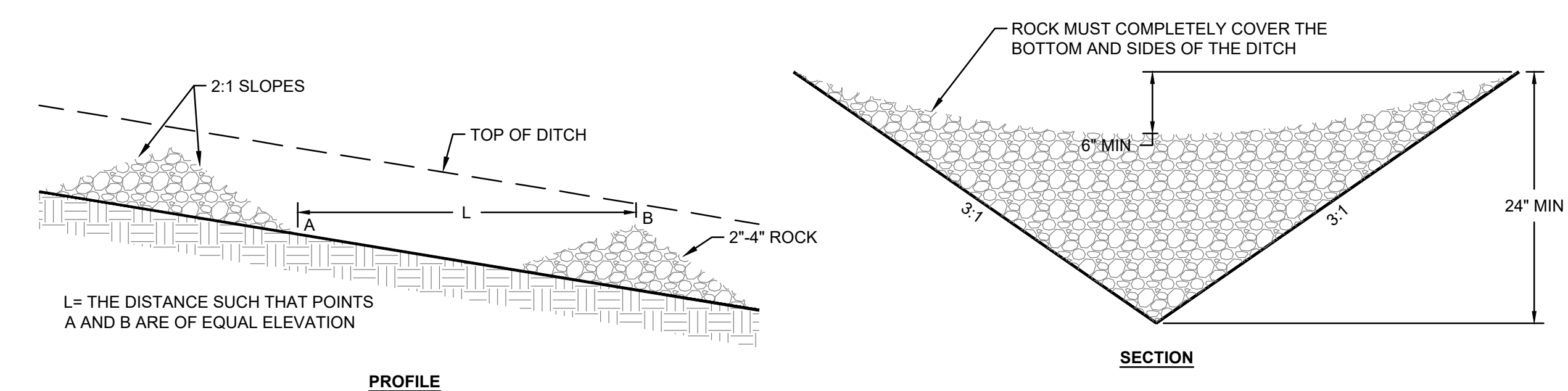
1 SILT FENCE NOT TO SCALE



2 CATCH BASIN INLET PROTECTION NOT TO SCALE



3 INTERCEPTOR SWALE NOT TO SCALE



4 ROCK CHECK DAM NOT TO SCALE

CONSTRUCTION SEQUENCE

- 1. ARRANGE AND ATTEND PRE-CONSTRUCTION MEETING WITH CITY OF FEDERAL WAY, OWNER, CONTRACTOR, ESC LEAD, AND ENGINEER. STAKE CLEARING LIMITS PRIOR TO THIS MEETING.
2. POST NOTICE OF CONSTRUCTION ACTIVITY SIGN WITH NAME AND PHONE NUMBER OF ESC LEAD.
3. FENCE CLEARING LIMITS AND TREE PROTECTION AREAS. FLAG WETLAND BUFFER LIMITS.
4. INSTALL CATCH BASIN SEDIMENT PROTECTION.
5. INSTALL PERIMETER PROTECTION (SILT FENCE, OR OTHER MEASURES) WHERE SPECIFIED ON THE ESC PLAN AND/OR REQUIRED BY THE CITY INSPECTOR.
6. GRADE AND STABILIZE CONSTRUCTION ENTRANCE(S).
7. GRADE AND STABILIZE CONSTRUCTION ROAD(S).
8. CLEAR AND GRUB WITHIN CONSTRUCTION LIMITS.
9. CONSTRUCT SURFACE WATER CONTROLS (INTERCEPTOR SWALES, CHECK DAMS, TEMPORARY SEDIMENT POND, ETC.) SIMULTANEOUSLY WITH CLEARING AND GRADING FOR PROJECT DEVELOPMENT.
10. PROVIDE PLASTIC COVERING ON ALL EXPOSED SLOPES 5H:1V OR GREATER. ALL FILLS MUST BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.
11. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH CITY OF AUBURN STANDARDS, NPDES PERMIT AND EROSION AND SEDIMENT CONTROL REPORT.
12. RELOCATE SURFACE WATER CONTROLS AND EROSION CONTROL MEASURES OR INSTALL NEW MEASURES, SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH THE CITY OF AUBURN EROSION AND SEDIMENT CONTROL REQUIREMENTS.
13. ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO DAYS DURING THE WET SEASON (OCT 1 TO APR 30) OR SEVEN DAYS DURING THE DRY SEASON (MAY 1 TO SEPT 30) SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC MEASURES.
14. ROUGH GRADE SITE.
15. CONSTRUCT PERMANENT STORMWATER FACILITIES.
16. CONSTRUCT ALL OTHER SITE IMPROVEMENTS.
17. SEED OR SOD ANY AREA TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
18. UPON SUBSTANTIAL COMPLETION, ALL DISTURBED AREAS MUST BE STABILIZED, EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL APPROVAL IS OBTAINED FROM THE CITY OF AUBURN.

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PERMIT NO. 24-101093-EN APPROVED DATE

CITY OF FEDERAL WAY TESC NOTES

- 1. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (I.E. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (I.E. ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS.
6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. ANY AREA STRIPPED OF VEGETATION, INCLUDING ROADWAY EMBANKMENTS, WHERE NO FURTHER WORK IS ANTICIPATED OR A PERIOD OF 2 DAYS (WET SEASON) OR 7 DAYS (DRY SEASON), SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (I.E. SEEDING, MULCHING, NETTING, EROSION BLANKETS, ETC.)
8. ANY AREA NEEDING ESC MEASURES, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN 15 DAYS.
9. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 24 HOURS FOLLOWING A STORM EVENT.
10. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
11. STABILIZED CONSTRUCTION ENTRANCES AND WASH PADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
12. WET SEASON REQUIREMENTS AS DESCRIBED IN APPENDIX D, SECTION D.2.4.2 OF THE KCSWDM ARE IN EFFECT BEGINNING OCTOBER 1 THROUGH APRIL 30.
13. ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION OR DISPERSION SYSTEM, THE FACILITY SHALL STANDARD PLAN NOTES REV. 07-2017 PAGE 5 OF 7 NOT BE USED AS A TEMPORARY SETTLING BASIN. NO UNDERGROUND DETENTION TANKS OR VAULTS SHALL BE USED AS A TEMPORARY SETTLING BASIN.
14. WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (I.E. ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE).
15. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF TWO INCHES.
16. MANAGEMENT PRACTICES PROVIDING SIGNIFICANT TREE PROTECTION SHALL BE PROVIDED PER SECTION 19.120 OF FWRC.

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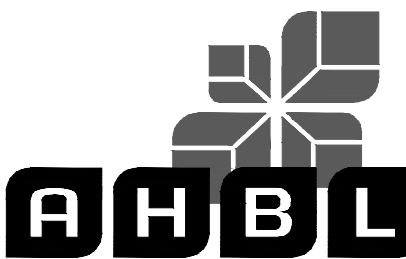


Helix design group

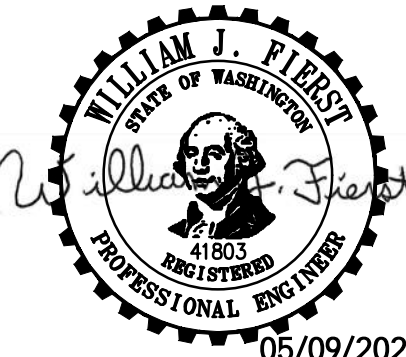


AMERICAN INSTITUTE OF ARCHITECTS

HELIX DESIGN GROUP, INC.



AHBL
T A C O M A - SEATTLE - SPOKANE - TRICITIES
2215 North 30th Street, Suite 300 Tacoma, WA 98403
253.862.0202 Tel: 253.862.0212 Fax: 253.862.0211
AHBL NO.: 2200572-10



05/09/2024

GRADING AND STORM DRAINAGE PLAN

CITY OF FEDERAL WAY
JOINT OPERATIONS & MAINTENANCE FACILITY

FEDERAL WAY, WASHINGTON

REVISION DATE

APPROVED

DATE

JOB NO. 05.06.24

023-087

BID SET

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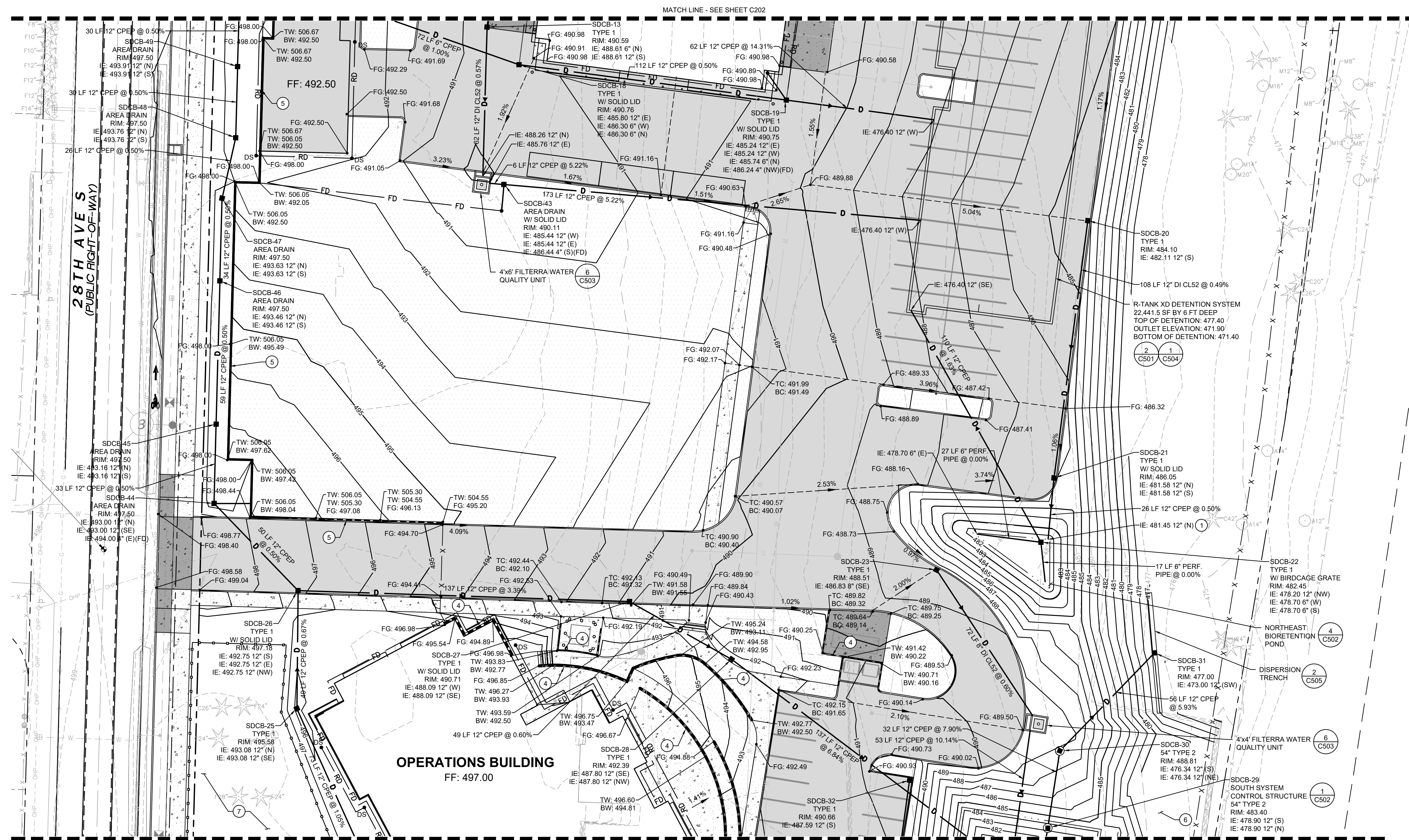
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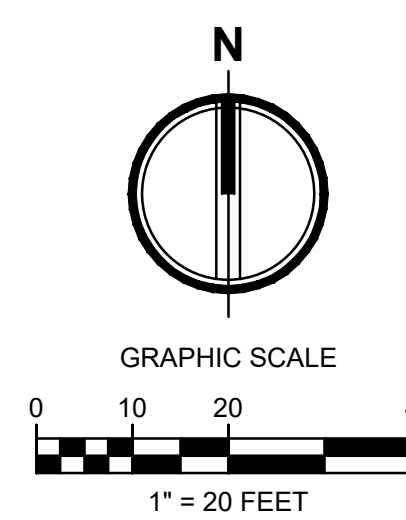
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- KEYNOTES**
- 1 PROVIDE DEBRIS BARRIER AND RIP RAP PAD AT PIPE OUTFALLS
 - 2 TRENCH DRAIN
 - 3 2'x6'x2' ECOLOGY BLOCK, TWO LAYERS
 - 4 SEE STRUCTURAL PLANS FOR RETAINING WALL DESIGN
 - 5 SEE OFFSITE PLANS FOR RETAINING WALL STRUCTURAL DESIGN. WALL ELEVATIONS ARE FOR REFERENCE
 - 6 AREA OUTSIDE GRADING LIMITS: GRUB EXISTING VEGETATION, ESTABLISH SUBGRADE ELEVATION TO ACCOMMODATE TOPSOIL, AND SMOOTH SURFACE IRREGULARITIES. SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.
 - 7 EXISTING TREE CRITICAL ROOT ZONE: NO EQUIPMENT, EXCAVATION, OR STORAGE OF MATERIALS WITHIN TREE PROTECTION FENCE. SEE LANDSCAPE PLANS.



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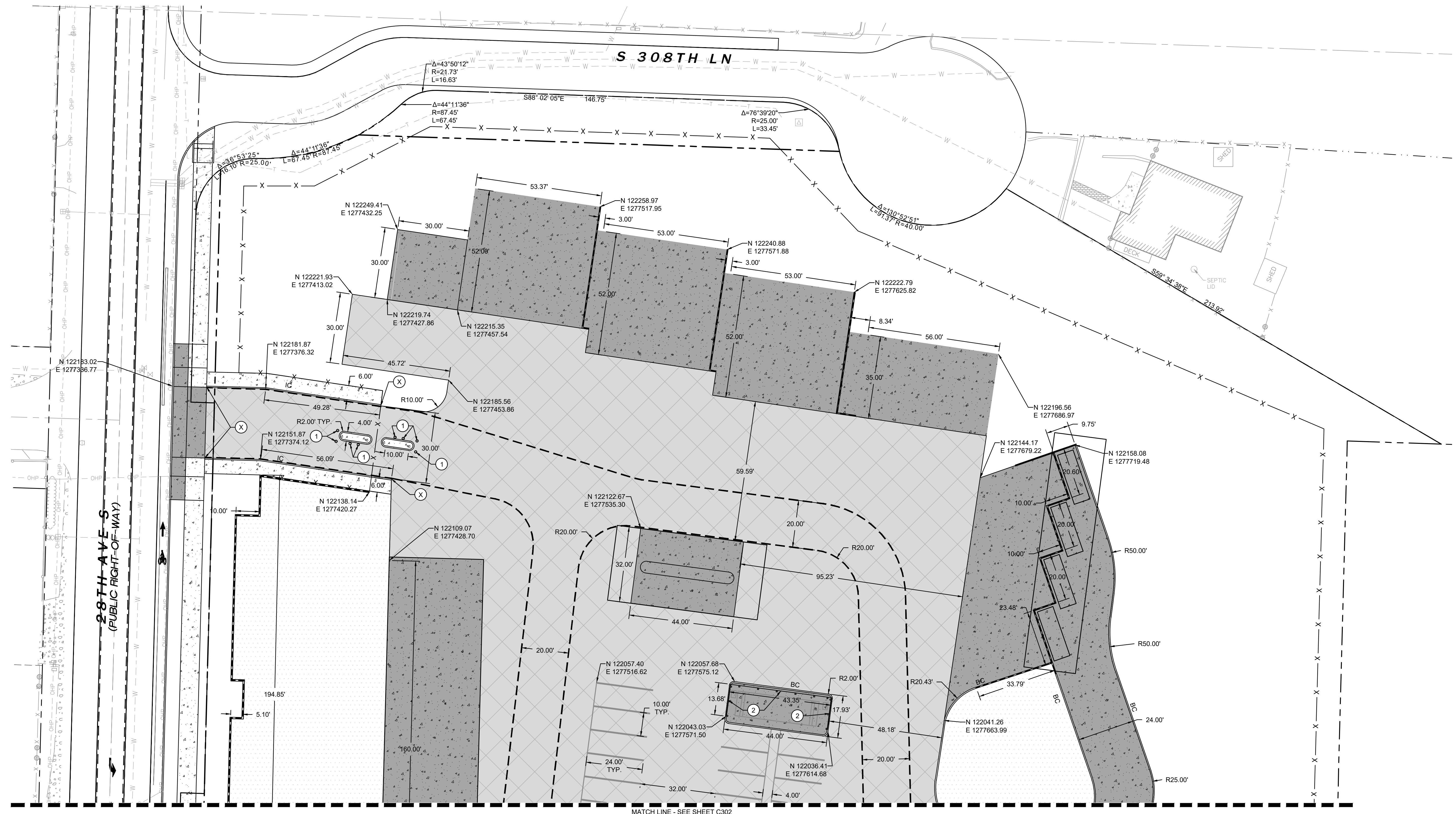
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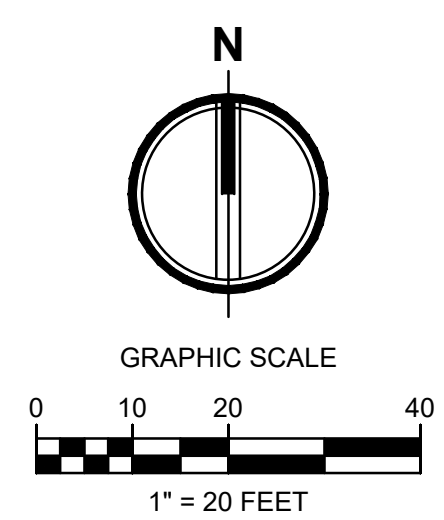
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UNOFFICIAL COPY Official bid documents, open holder's list, and addenda (if applicable) are available on B2WVA.com

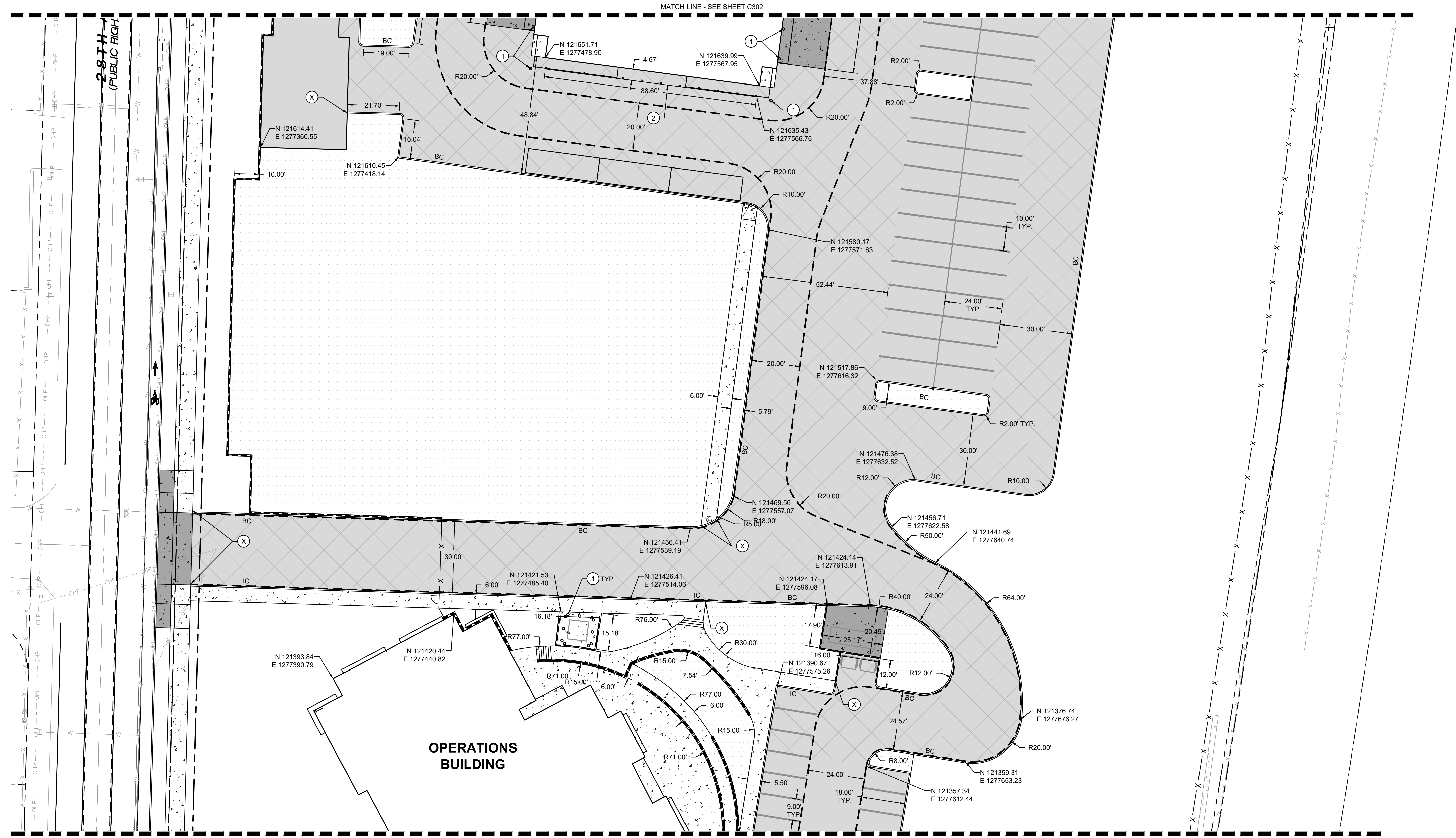


LEGEND:

	FENCING - REFER TO LANDSCAPE ARCHITECTS DRAWINGS.		RETAINING WALL - SEE STRUCTURAL PLANS
	ASPHALT PAVEMENT - STANDARD DUTY (3) C503		PROVIDE FIRE LANE MARKINGS (3) C505
	ASPHALT PAVEMENT - HEAVY DUTY (3) C503		ACCESSIBLE PARKING SPACE SYMBOL (7) C502
	CEMENT CONCRETE - STANDARD DUTY (1) C503	KEYNOTES:	
	CEMENT CONCRETE - HEAVY DUTY (2) C503	(1) BOLLARD PER (4) C505	
	CHANGE IN CURB TYPE / END CURB	(2) BEAM GUARDRAIL TYPE 31 PER WSDOT STANDARD PLAN C20.10-09, POSTS SPACED 8 FEET ON CENTER	
	INTEGRAL CURB (3) C502		
	BARRIER CURB (4) C503		
	WEDGE CURB (4) C504		



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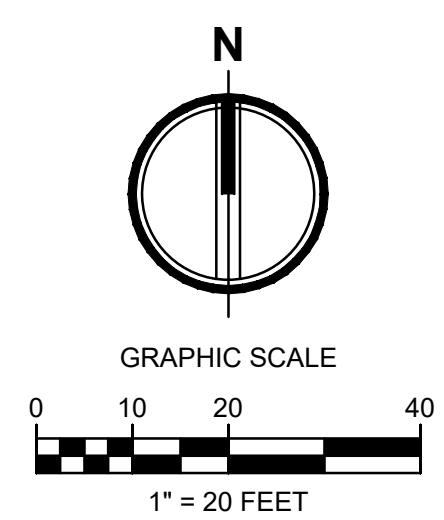


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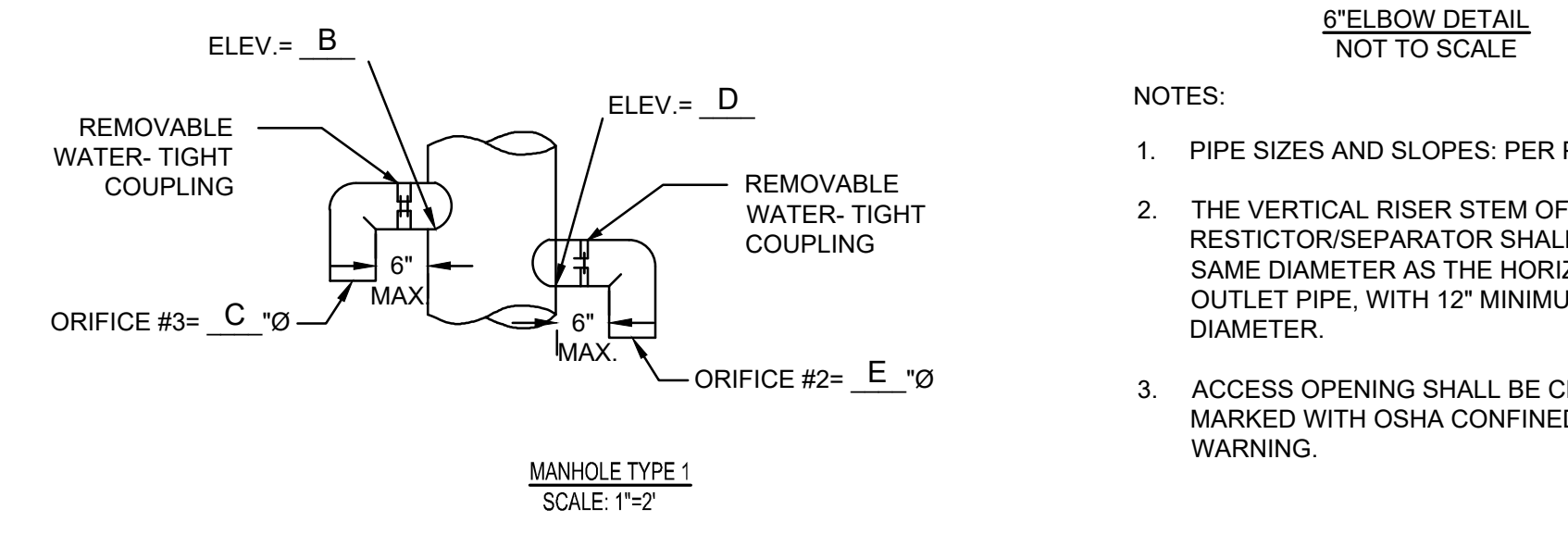
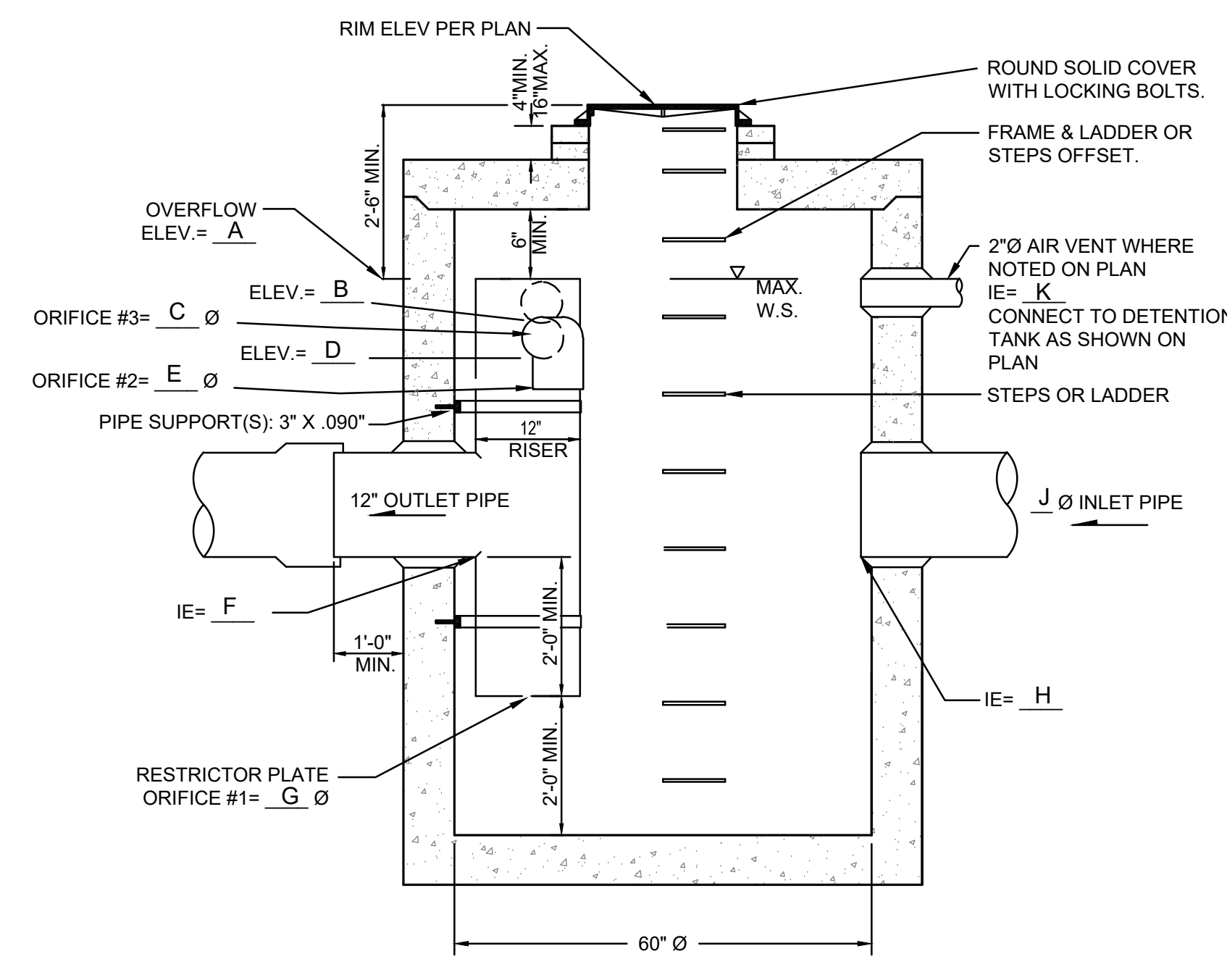
- FENCING - REFER TO LANDSCAPE ARCHITECTS DRAWINGS.
- RETAINING WALL - SEE STRUCTURAL PLANS
- ASPHALT PAVEMENT - STANDARD DUTY (3 C503)
- ASPHALT PAVEMENT - HEAVY DUTY (3 C503)
- CEMENT CONCRETE - STANDARD DUTY (1 C503)
- CEMENT CONCRETE - HEAVY DUTY (2 C503)
- CHANGE IN CURB TYPE / END CURB (X)
- INTEGRAL CURB (5 C502)
- BARRIER CURB (4 C503)
- WEDGE CURB (4 C504)
- PROVIDE FIRE LANE MARKINGS (3 C505)
- ACCESSIBLE PARKING SPACE SYMBOL (7 C502)

KEYNOTES:

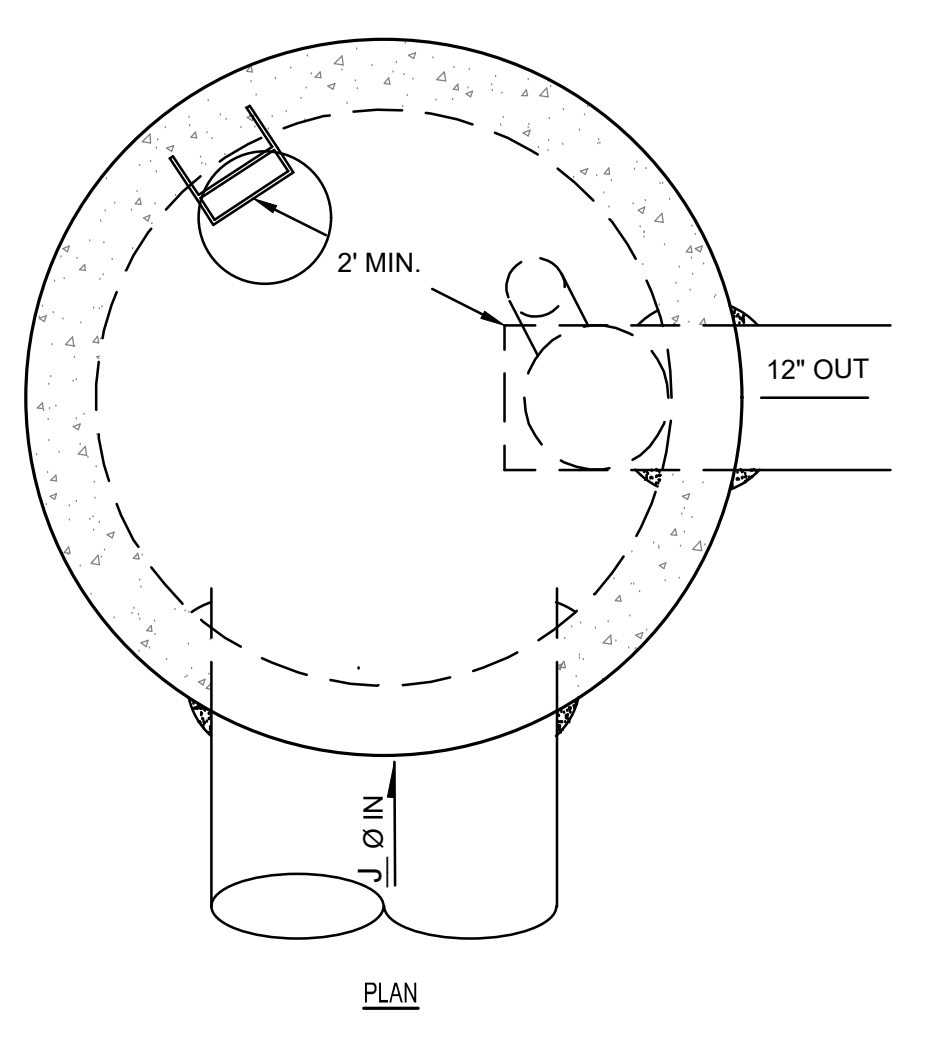
- 1 BOLLARD PER (4 C505)
- 2 BEAM GUARDRAIL TYPE 31 PER WSDOT STANDARD PLAN C20.10-09, POSTS SPACED 8 FEET ON CENTER



DATE: May 9, 2024 FILENAME: C:\2020\200572\10_CIVCAD\200572-SH-HCT1.dwg PLOTTED: FILE PATH:

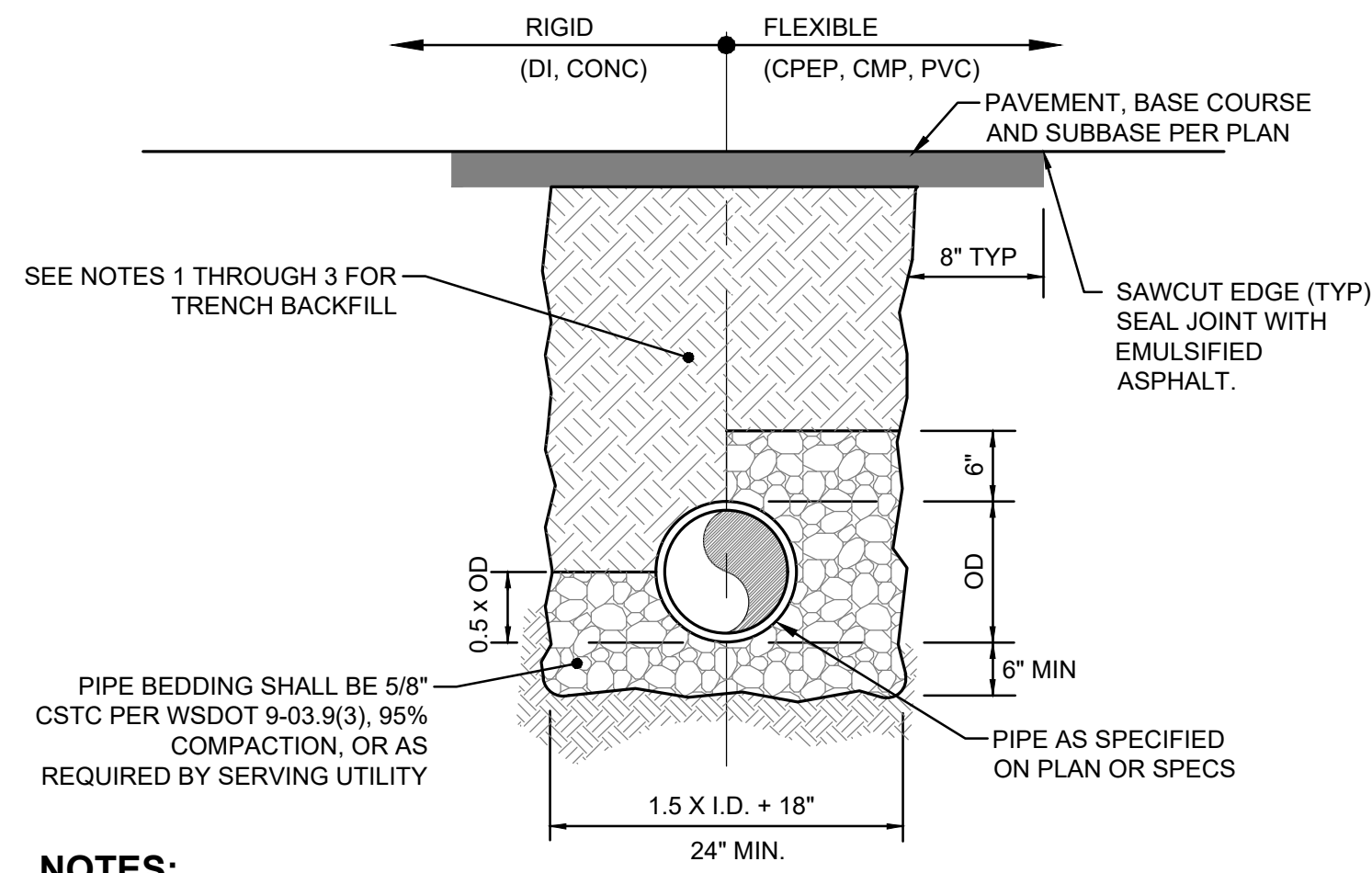


1 CONTROL STRUCTURE MANHOLE
NOT TO SCALE



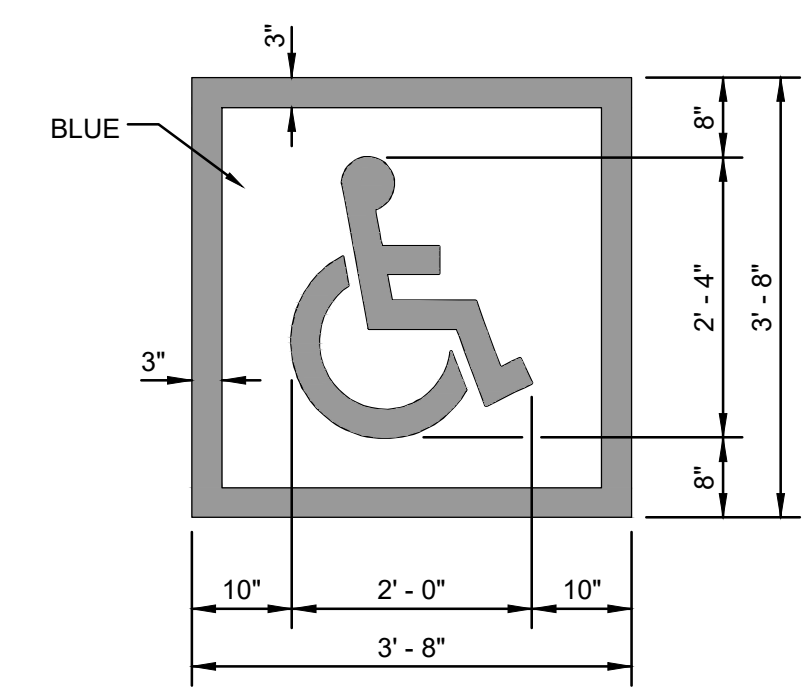
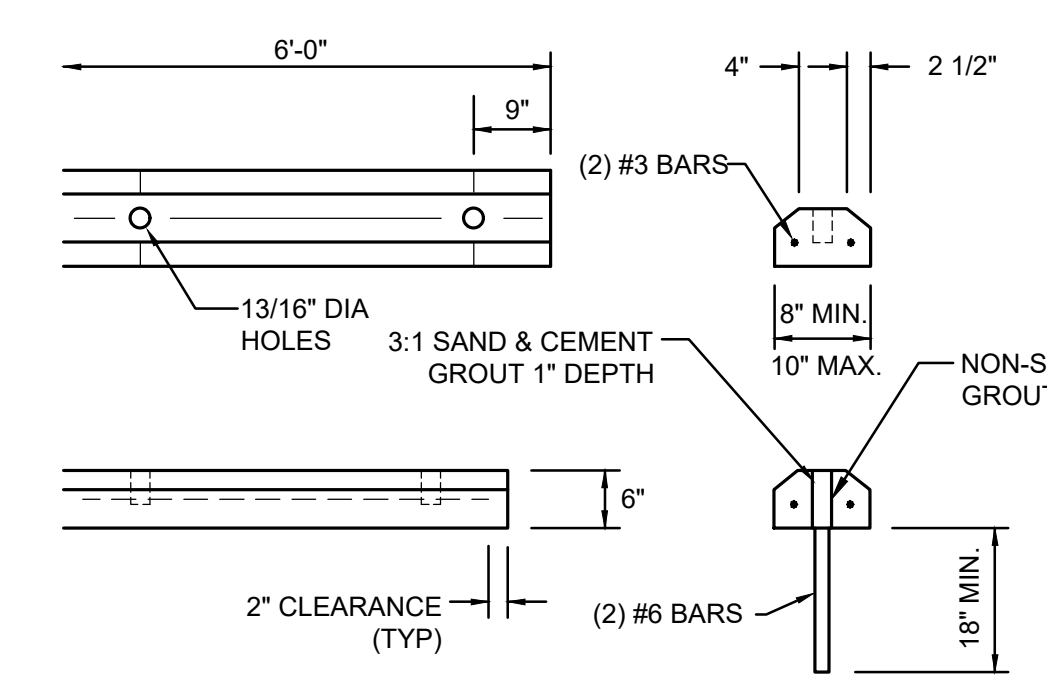
3 PIPE BEDDING AND BACKFILL
NOT TO SCALE

	NORTH SYSTEM	SOUTH SYSTEM
A	477.50	483.40
B	475.70	482.90
C	2.5"	2.35"
D	474.90	481.90
E	1.1"	1.25"
F	471.90	478.90
G	1.3"	0.9"
H	471.90	478.90
J	12"	12"
K	NONE	NONE

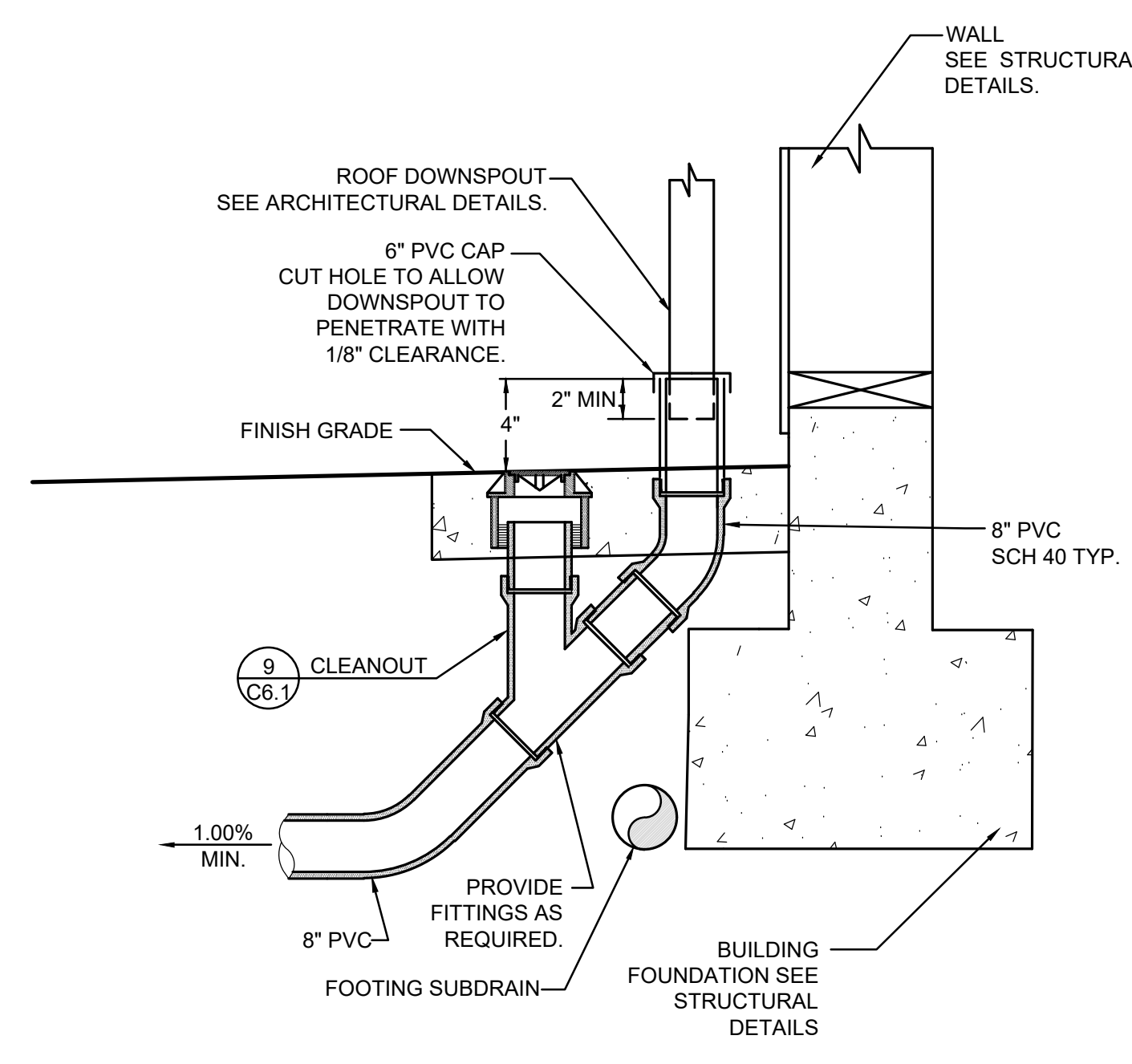


- NOTES:**
- FOR TRENCHES GREATER THAN 18" WIDE, BACKFILL UTILITY TRENCHES WITHIN PAVED AREAS WITH 5/8" CSTC PER WSDOT 9-03.9(3) OR SUITABLE APPROVED NATIVE MATERIAL MEETING SPECIFICATION REQUIREMENTS. COMPACT TO A MINIMUM OF 95%.
 - FOR TRENCHES LESS THAN 18" WIDE, BACKFILL UTILITY TRENCHES WITHIN PAVED AREAS WITH 100% CDF.
 - IN UNPAVED AREAS, TRENCHES MAY BE BACKFILLED WITH NATIVE MATERIAL AND COMPACTED TO 90%.

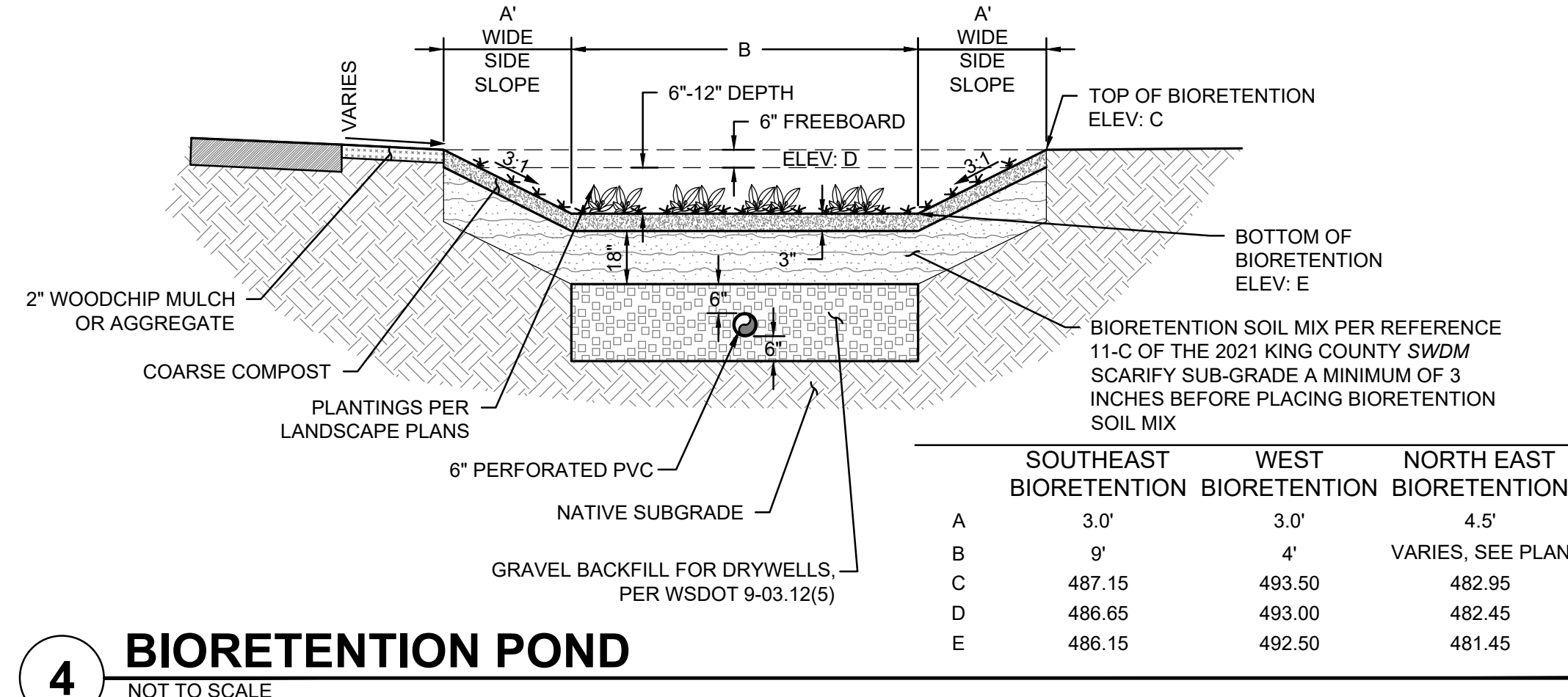
6 PRECAST CONCRETE WHEELSTOP
NOT TO SCALE



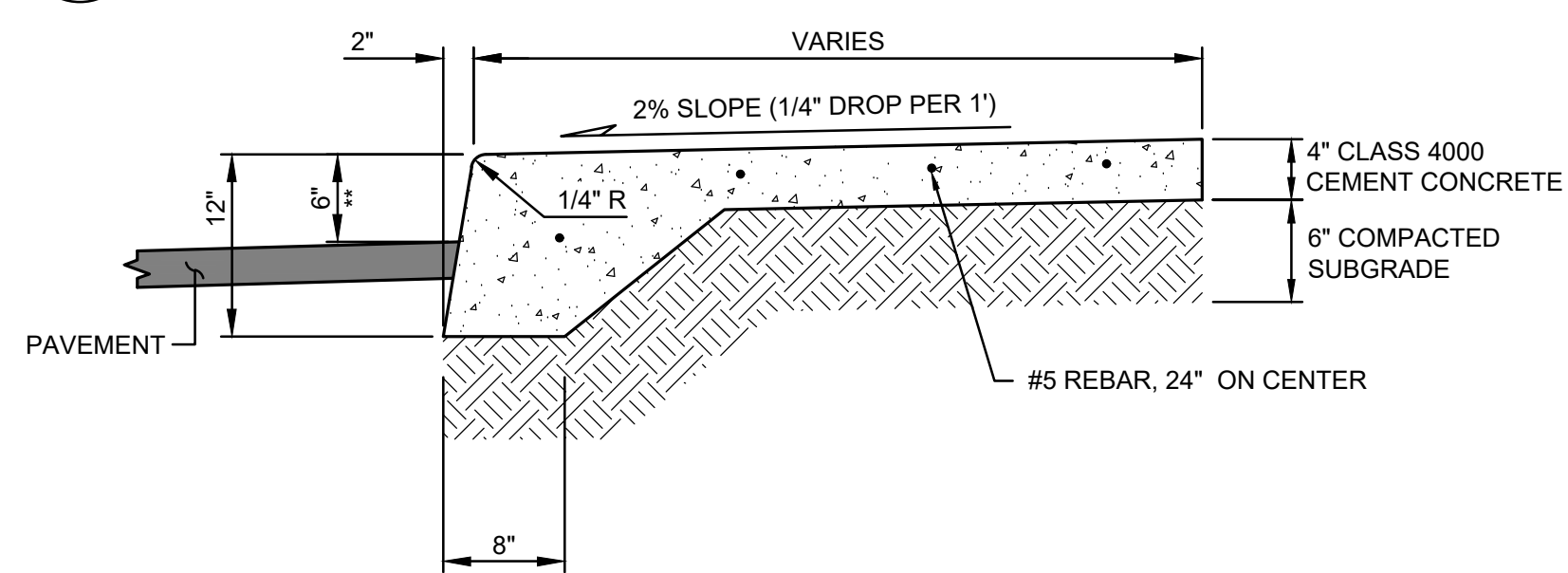
7 INTERNATIONAL SYMBOL OF ACCESS
NOT TO SCALE



2 DOWNSPOUT CONNECTION
NOT TO SCALE

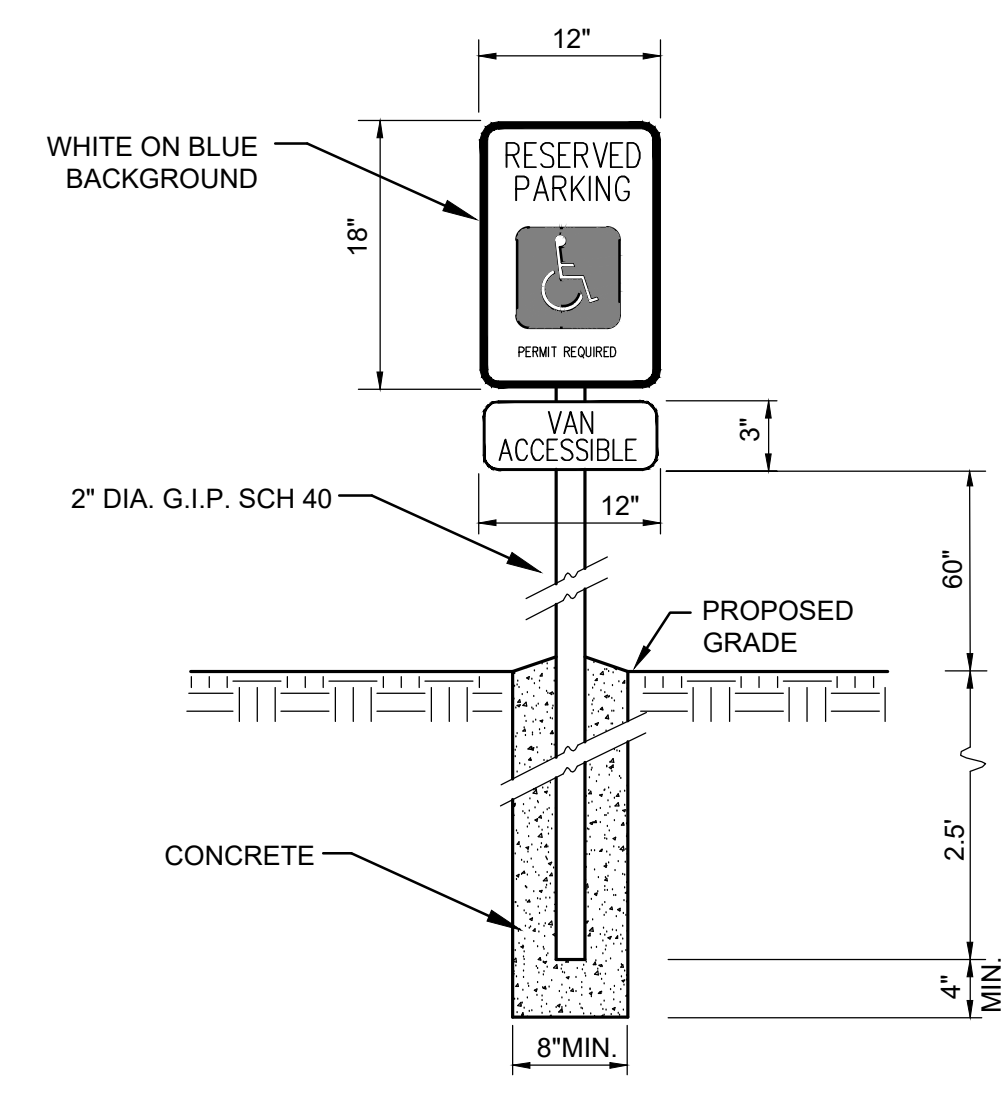


4 BIORETENTION POND
NOT TO SCALE



- NOTES:**
- COMPACTION FOR CONCRETE CURB AND WALKS TO BE 95% OF MAXIMUM DENSITY. SEE SPECIFICATIONS.
 - EXPANSION JOINTS SHALL BE AT 10'-0" INTERVALS OR AS SHOWN ON ARCHITECTURAL PLANS.
 - 0" AT FLUSH CURB LOCATION FOR CURB RAMPS.

5 INTEGRAL CURB AND SIDEWALK
NOT TO SCALE



8 ACCESSIBLE PARKING SIGNAGE DETAIL
NOT TO SCALE

- NOTES:**
- THIS APPROVAL IS VOID 1 (ONE) YEAR AFTER APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS. FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE CITY ENGINEER.

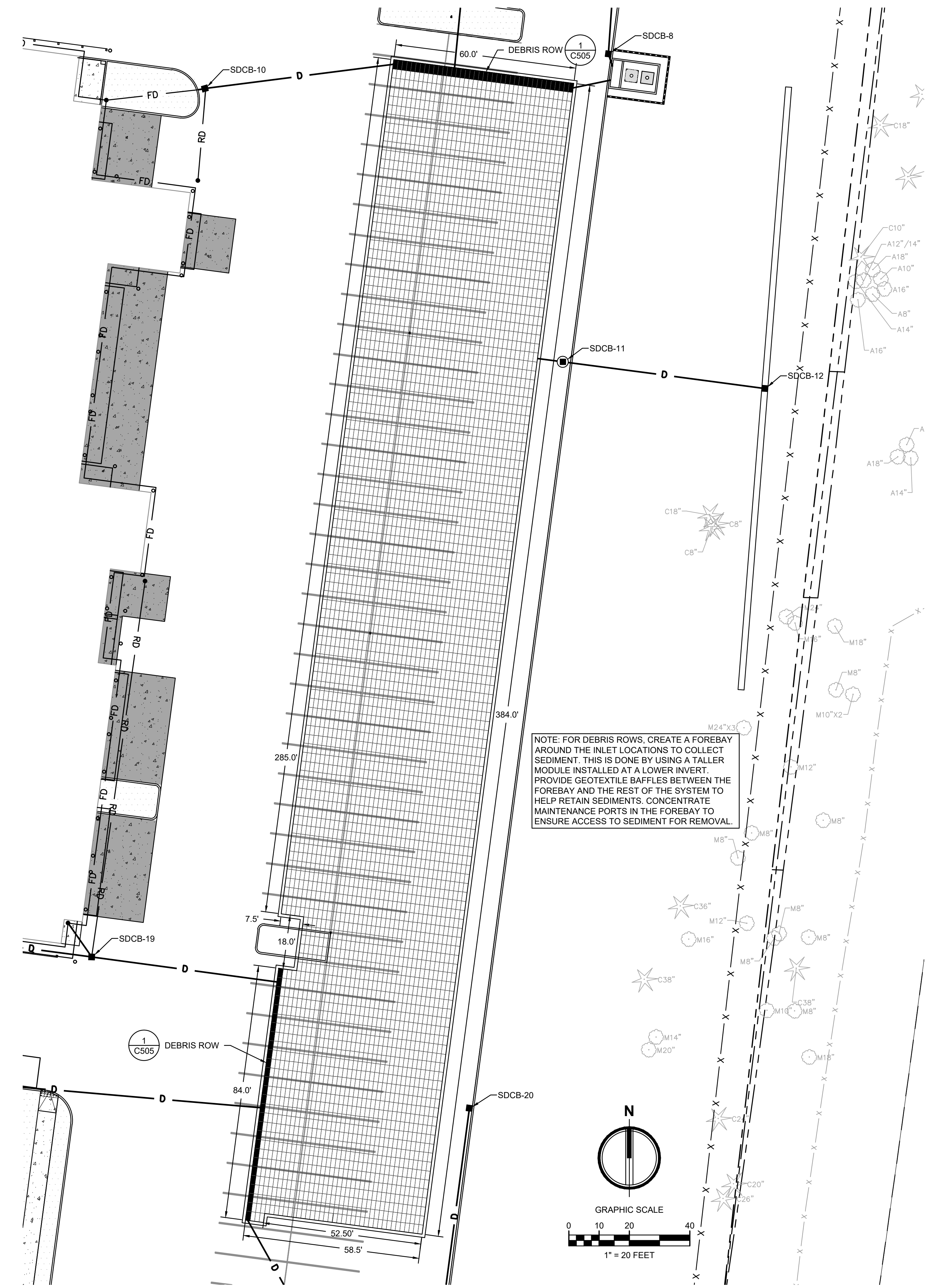
PERMIT NO. 24-101093-EN

APPROVED

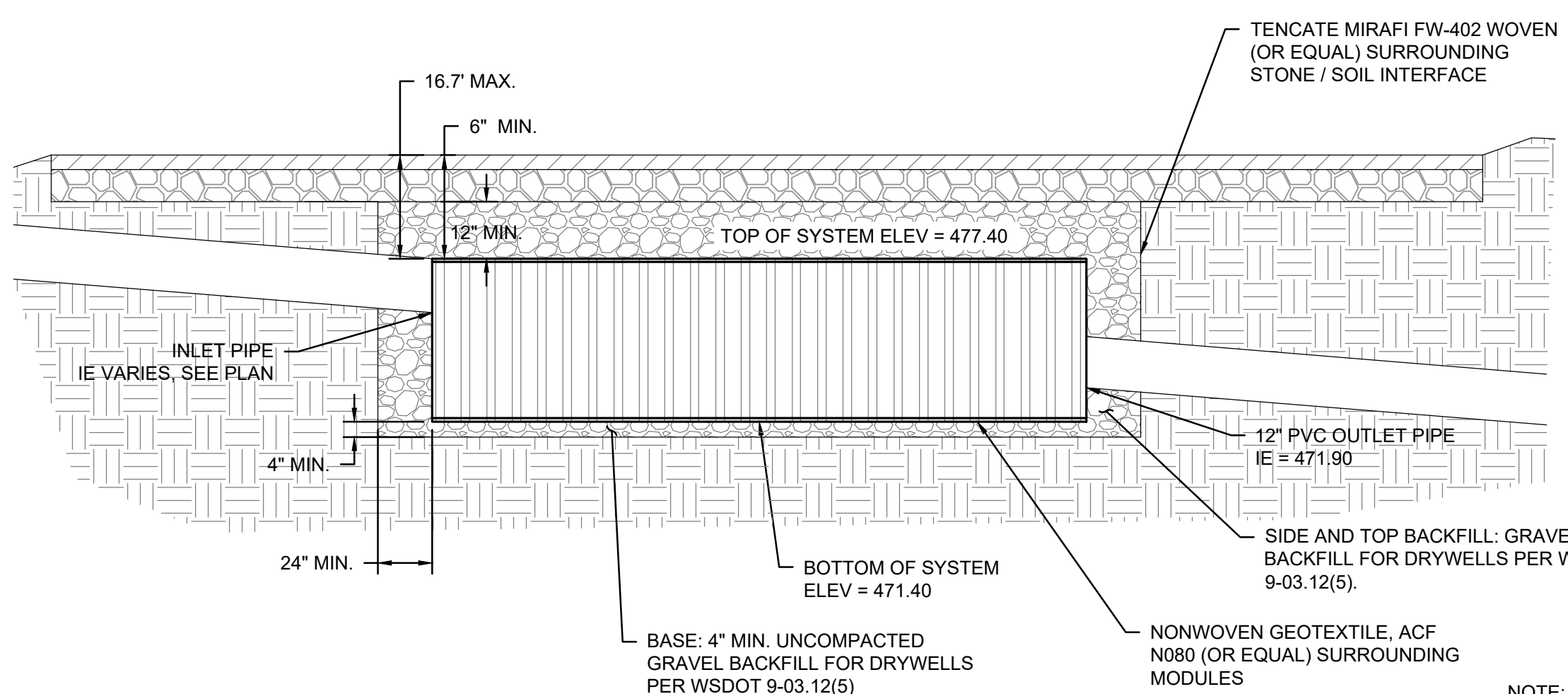
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REVISION	DATE

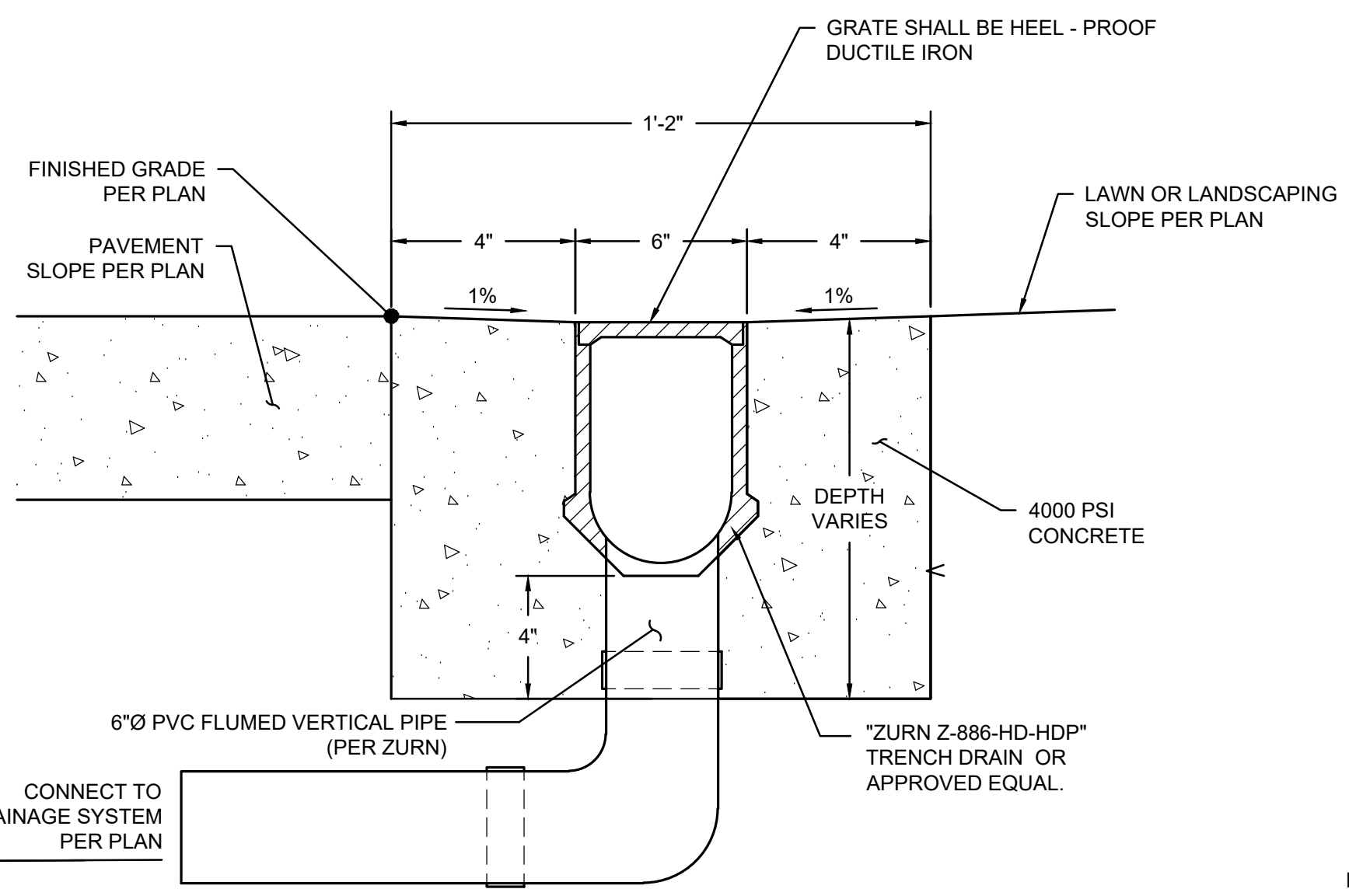
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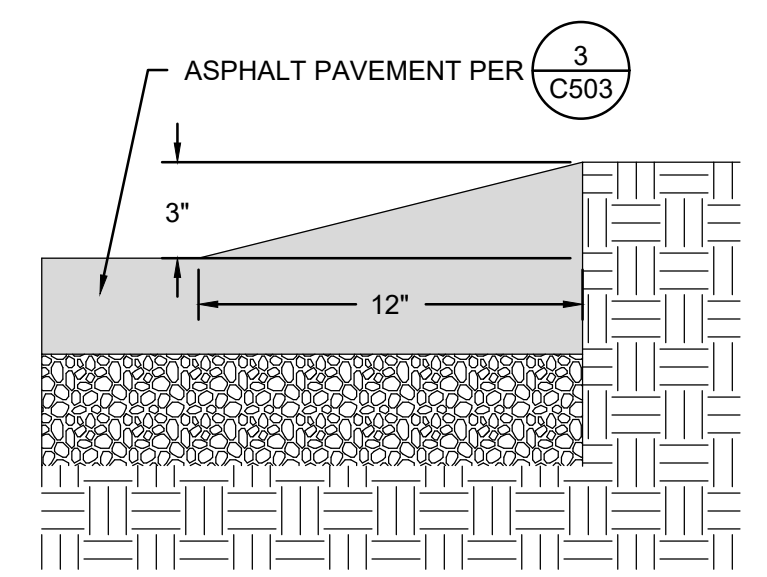
1 UNDERGROUND DETENTION SYSTEM DIMENSIONS
SCALE: 1" = 20'



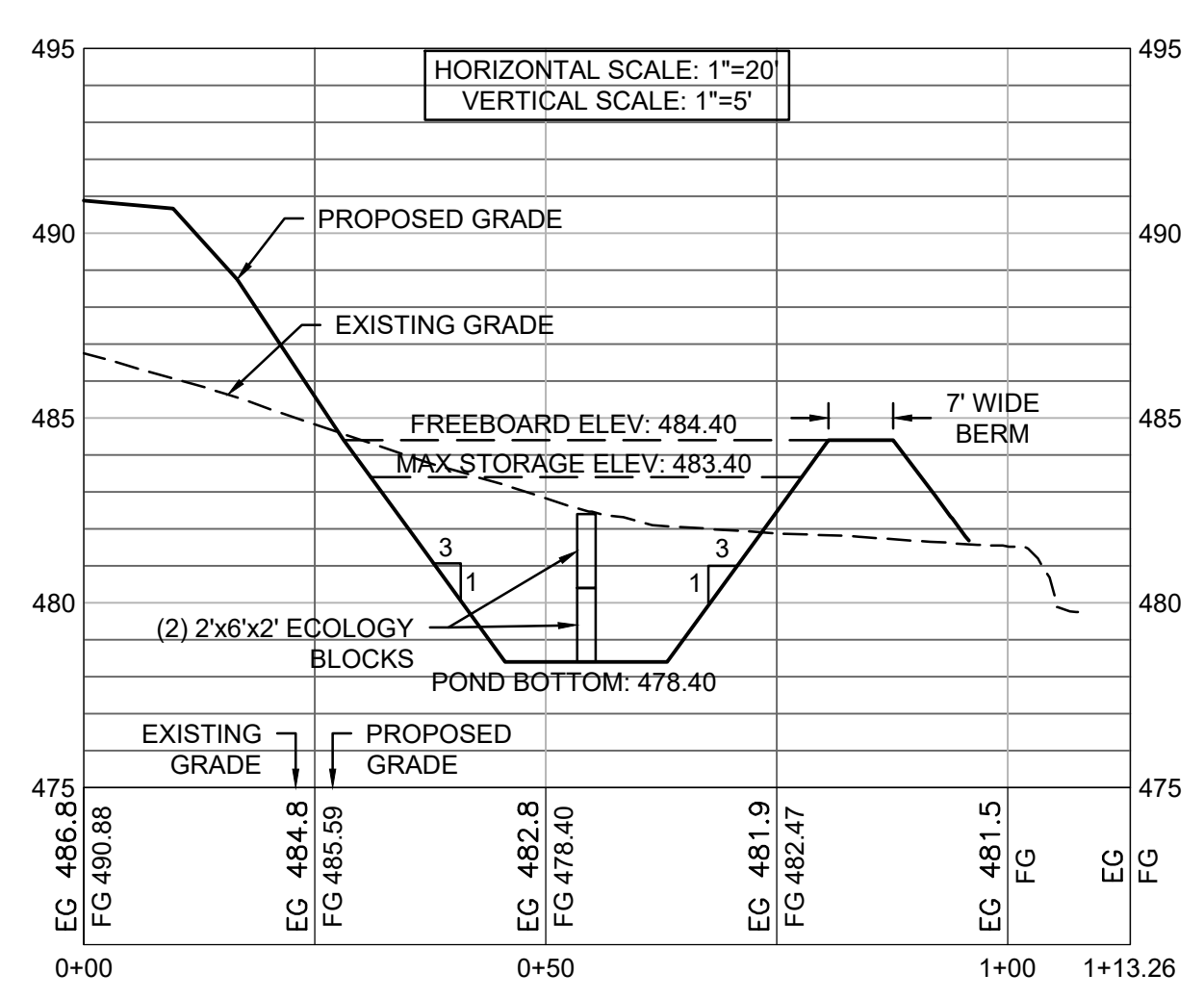
2 UNDERGROUND DETENTION SYSTEM SECTION VIEW
NOT TO SCALE



3 TRENCH DRAIN
NOT TO SCALE



4 ASPHALT WEDGE CURB
NOT TO SCALE

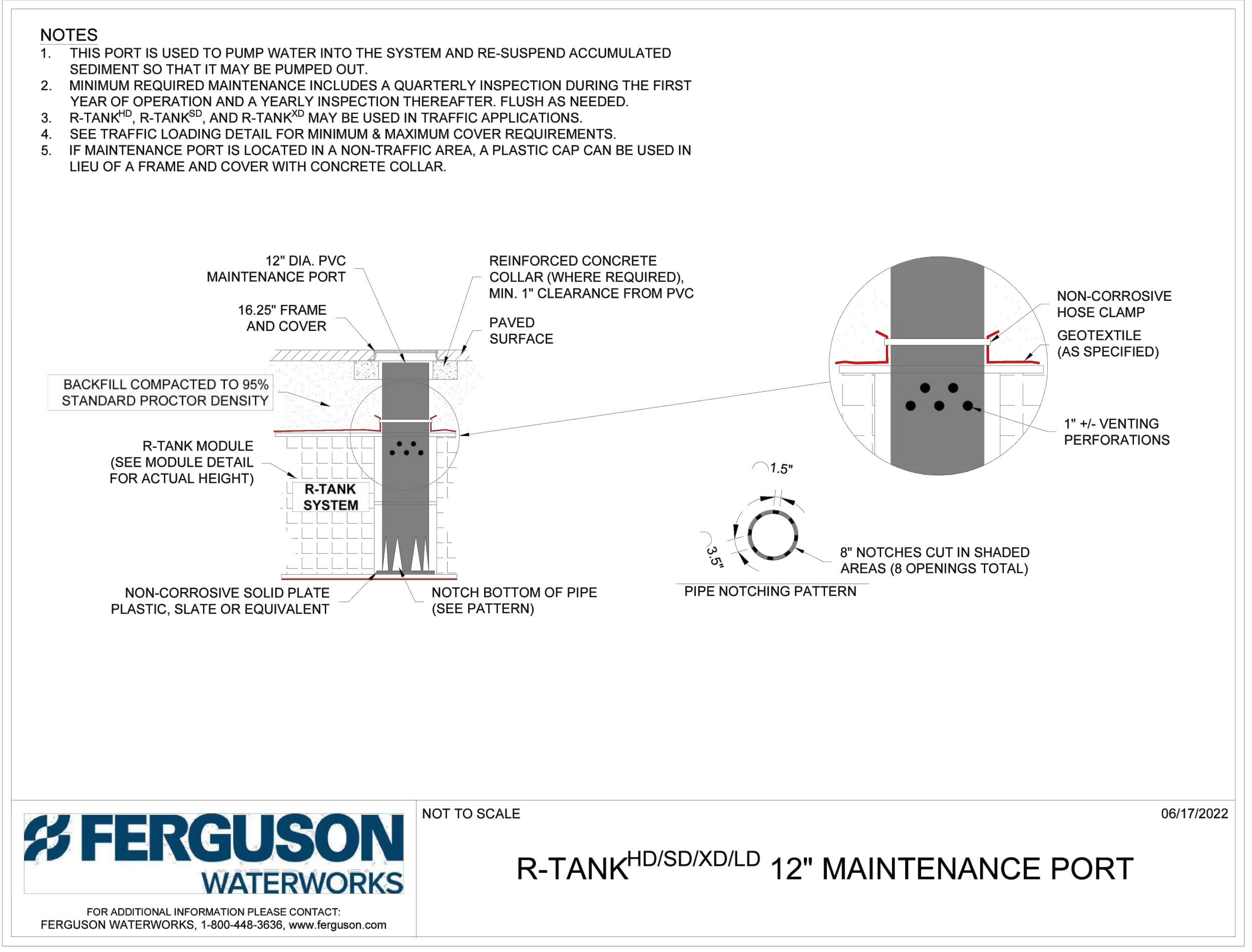


5 POND SECTION VIEW
SCALE: 1"=20' HORIZONTAL, 1"=5' VERTICAL

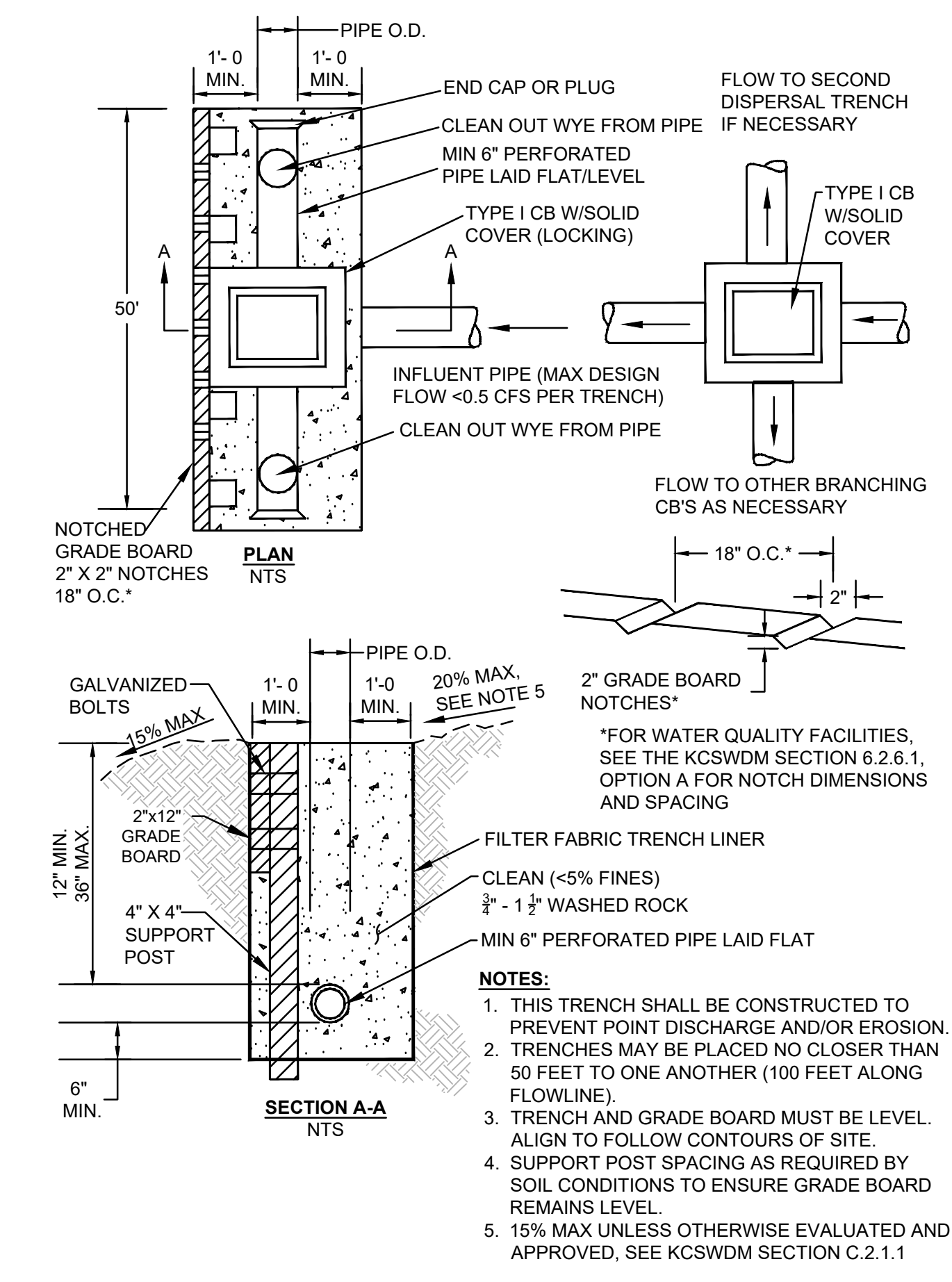
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APPROVED _____

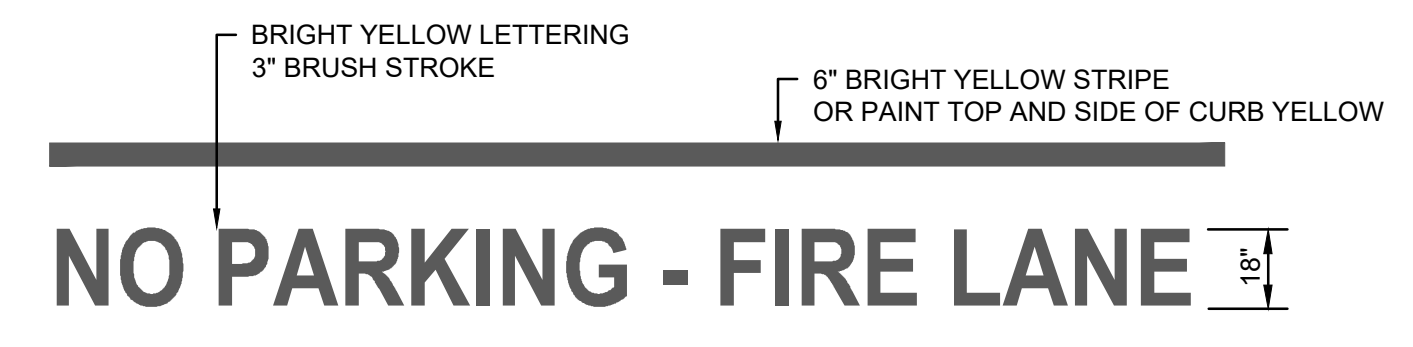
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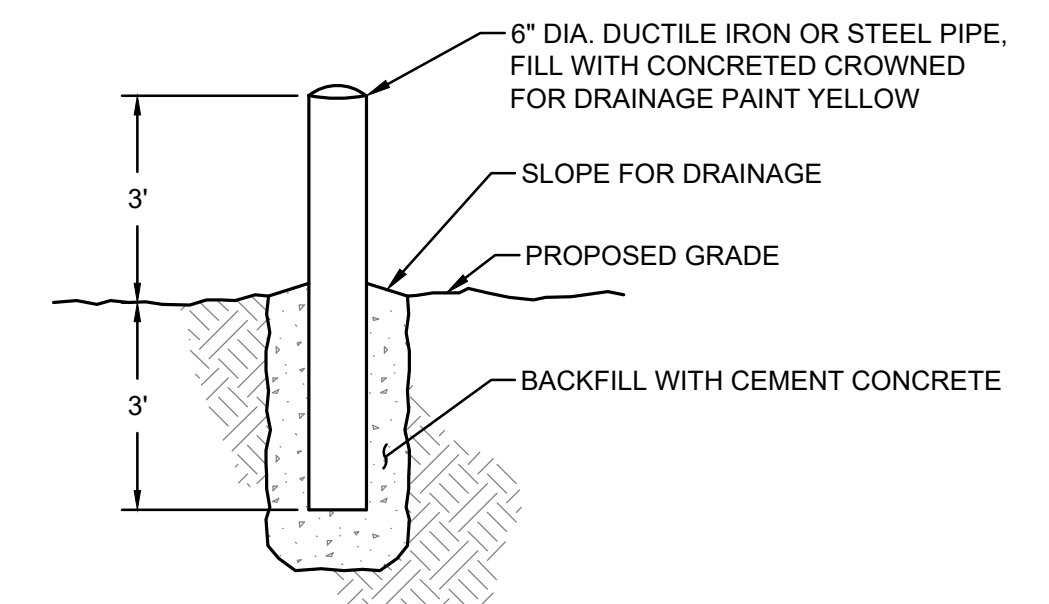
1 R-TANK MAINTENANCE PORT
NOT TO SCALE



2 DISPERSION TRENCH
NOT TO SCALE



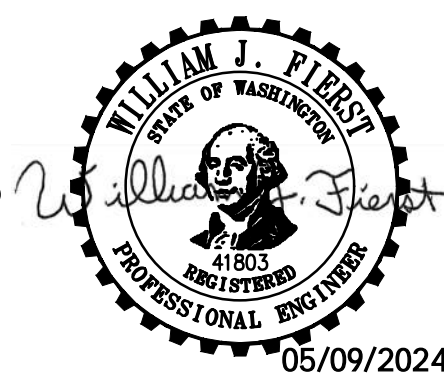
3 FIRE LANE MARKING
NOT TO SCALE



4 BOLLARD
NOT TO SCALE

NOTE:
THIS APPROVAL IS VOID 1 (ONE) YEAR AFTER APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE CITY ENGINEER.

PERMIT NO. 24-101093-EN	
APPROVED	DATE



NOTES AND DETAILS

CITY OF FEDERAL WAY JOINT OPERATIONS & MAINTENANCE FACILITY
FEDERAL WAY, WASHINGTON

REVISION	DATE

DATE: 05.06.24 JOB NO: 023-087
BID SET

10 C505

PLOTTED: DATE: May 9, 2024 FILENAME: C:\2024\050924\050924\050924-SH-DJETL.dwg
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HELIX DESIGN GROUP, INC.



LAKEHAVEN WATER AND SEWER DISTRICT

Water Plan Sewer Plan

Dated _____

APPROVED FOR CONSTRUCTION

SUBJECT TO CHANGES NOTED

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Development Engineering Manager _____ Date _____

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LAKEHAVEN PROJECT NO: 6324006

THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH LAKEHAVEN WATER & SEWER DISTRICT WATER SYSTEM AND SEWER SYSTEM STANDARDS APPROVED BY THE WASHINGTON STATE DEPARTMENT OF HEALTH ON JUNE 8, 1994 AND ANY ADDENDA THERETO.

ACCEPTABLE CONSTRUCTION METHODS AND/OR R.O.W. RESTORATION REQUIREMENTS FOR WORK PERFORMED IN R.O.W. ARE DEFINED BY FEDERAL WAY AND MAY NOT BE SHOWN ON THE PLANS APPROVED FOR CONSTRUCTION. CONSULT WITH LAKEHAVEN'S PROJECT INSPECTOR AND ANY APPLICABLE R.O.W. PERMIT FOR ACCEPTABLE CONSTRUCTION METHODS (OPEN TRENCH, BORE & CASE, DIRECTIONAL DRILL, ETC) AND EXTENT OF ASPHALT OVERLAY AND/OR OTHER RESTORATION REQUIREMENTS FOR WORK IN R.O.W.

ON-SITE WATER MAIN, VALVES, FIRE HYDRANTS AND APPURTENANCES ARE PRIVATELY OWNED AND MAINTAINED BY THE CITY OF FEDERAL WAY.

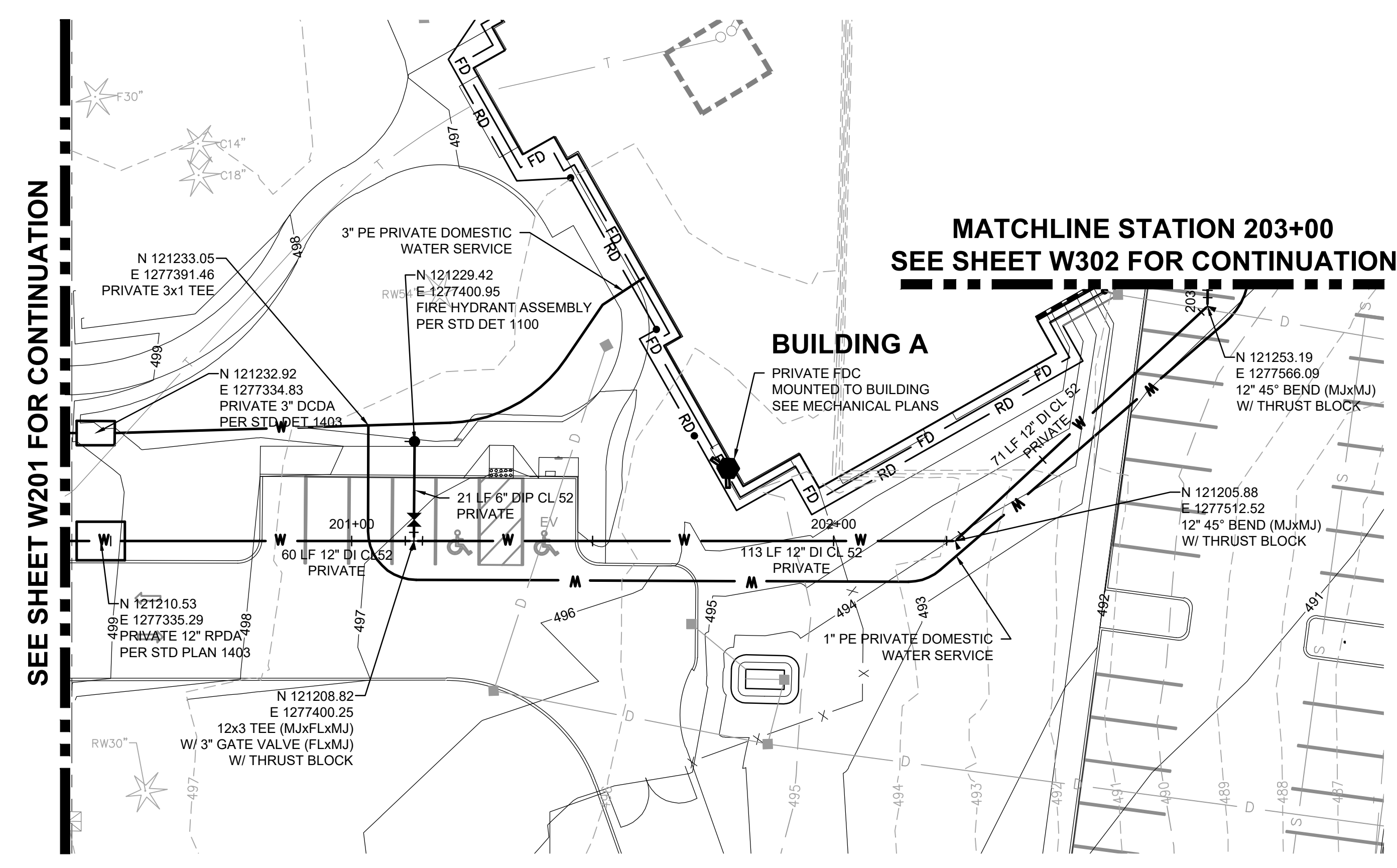
VERTICAL DATUM

NGVD 29, PER KPG SURVEY CITY OF FEDERAL WAY - STEEL LAKE TO DOWNTOWN TRAIL, SURVEY CONTROL SHEET DATED 04/17

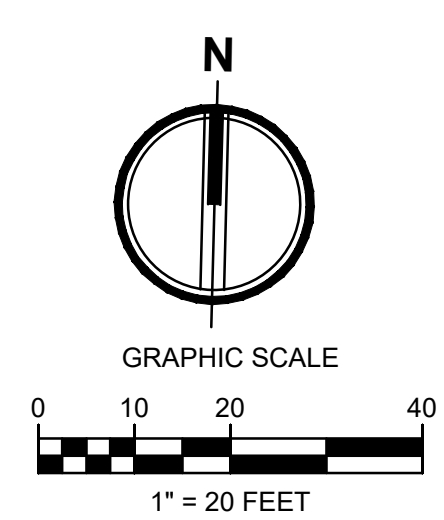
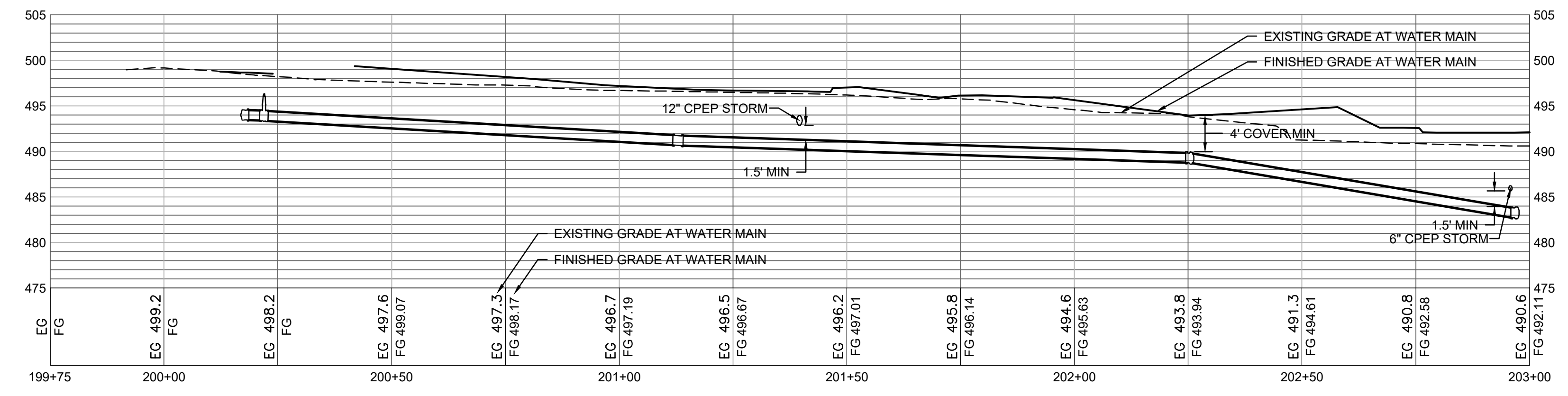
BM 113 "MIC" AT THE INTERSECTION OF S 312TH ST & 18 AVE S

N12111.51 E1274001.90 EL= 474.06'

NAVD88 TO NGVD29 = -3.55'



- LEGEND**
- SANITARY SEWER MANHOLE
 - TWO-WAY SANITARY SEWER CLEANOUT
 - CATCH BASIN TYPE-1
 - S SANITARY SEWER PIPING
 - W WATER PIPING
 - F FIRE SERVICE PIPING
 - ◆ FIRE HYDRANT
 - ▼ FIRE DEPARTMENT CONNECTION (FDC)
 - METER AS NOTED
 - ⊕ POST INDICATOR VALVE (PIV)
 - ⊗ GATE VALVE
 - BOLLARD
 - ▲ THRUST BLOCKING
 - ⌋ FITTINGS AS NOTED
 - ⊙ YARD HYDRANT, SERVICE FROM BUILDING PLUMBING SYSTEM, EXCEPT WHERE INDICATED



7 WATER PLAN AND PROFILE

CITY OF FEDERAL WAY
JOINT OPERATIONS & MAINTENANCE FACILITY

FEDERAL WAY, WASHINGTON

REVISION	DATE

DATE: 05.06.24 JOB NO: 023-087

BID SET

8 W301



Helix design group

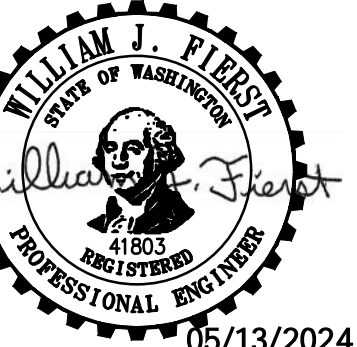


AMERICAN INSTITUTE OF ARCHITECTS

HELIX DESIGN GROUP, INC.



AHBL
T A C O M A - SEATTLE - SPOKANE - TRICITIES
2215 North 30th Street, Suite 200 Tacoma, WA 98403
253.862.0027 fax 253.868.2073 www.ahbl.com web
AHBL NO.: 2200572-10



05/13/2024

WATER PLAN AND PROFILE

CITY OF FEDERAL WAY
JOINT OPERATIONS & MAINTENANCE FACILITY
FEDERAL WAY, WASHINGTON

REVISION DATE

DATE: 05.06.24 JOB NO: 023-087
BID SET

WHITE

DRAWING NO. W302
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LAKEHAVEN WATER AND SEWER DISTRICT

Water Plan Sewer Plan

Dated _____

APPROVED FOR CONSTRUCTION
SUBJECT TO CHANGES NOTED

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Development Engineering Manager _____ Date _____

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LAKEHAVEN PROJECT NO: 6324006
THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH LAKEHAVEN WATER & SEWER DISTRICT WATER SYSTEM AND SEWER SYSTEM STANDARDS APPROVED BY THE WASHINGTON STATE DEPARTMENT OF HEALTH ON JUNE 8, 1994 AND ANY ADDENDA THERETO.

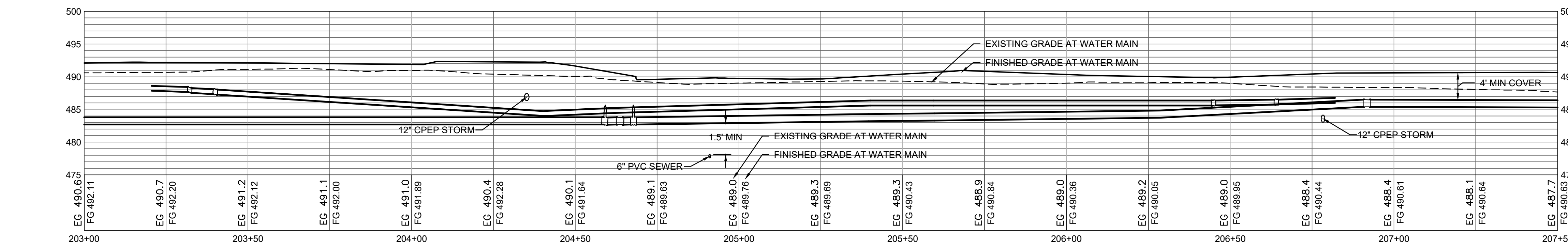
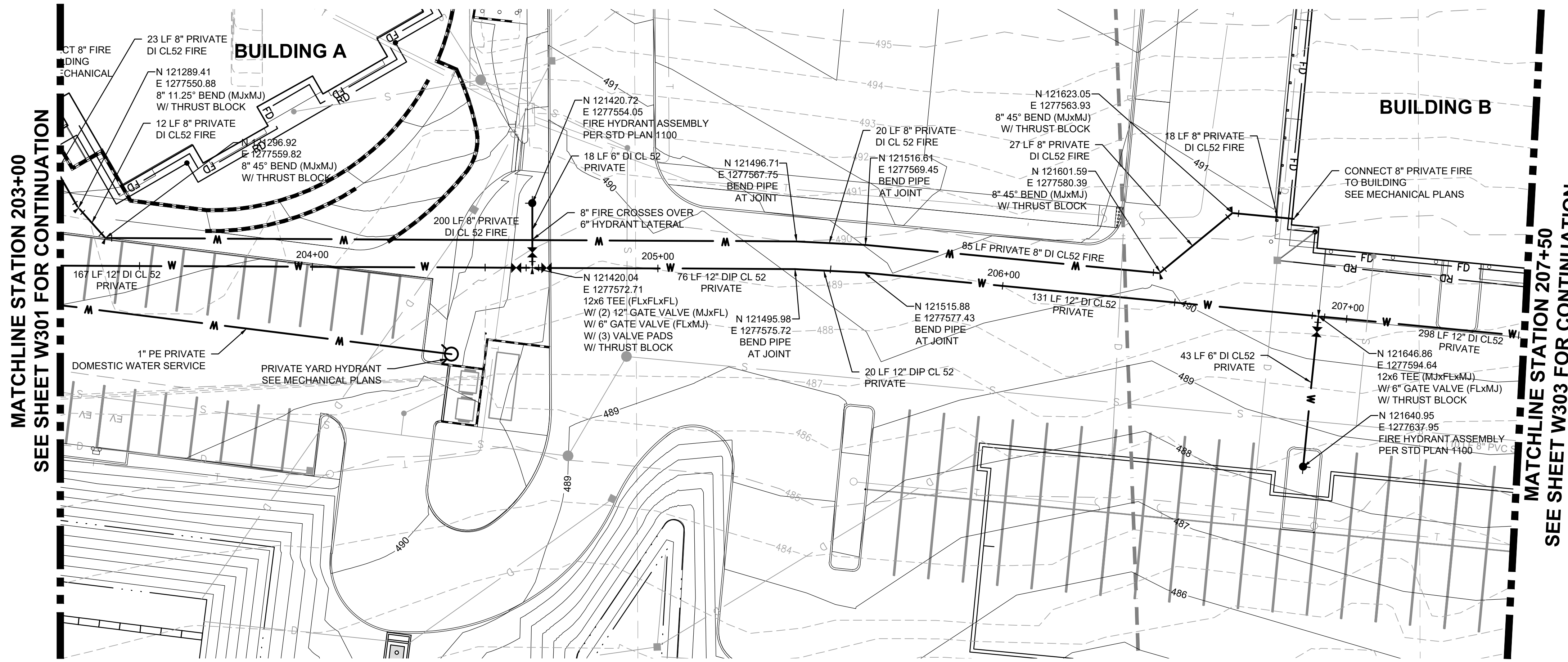
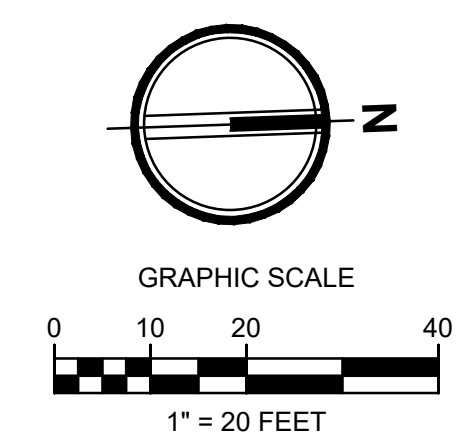
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ON-SITE WATER MAIN, VALVES, FIRE HYDRANTS AND APPURTENANCES ARE PRIVATELY OWNED AND MAINTAINED BY THE CITY OF FEDERAL WAY.

VERTICAL DATUM
NGVD 29 PER KPG SURVEY CITY OF FEDERAL WAY - STEEL LAKE TO DOWNTOWN TRAIL SURVEY CONTROL SHEET DATED 04/17
BM 113 "MIC" AT THE INTERSECTION OF S 312TH ST & 18 AVE S
N 121113.51 E 1274001.90 EL= 474.06'
NAVD88 TO NGVD29 = -3.55'

LEGEND

- SANITARY SEWER MANHOLE
- TWO-WAY SANITARY SEWER CLEANOUT
- CATCH BASIN TYPE-1
- S SANITARY SEWER PIPING
- W WATER PIPING
- F FIRE SERVICE PIPING
- ◆ FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION (FDC)
- METER AS NOTED
- POST INDICATOR VALVE (PIV)
- GATE VALVE
- BOLLARD
- ▲ THRUST BLOCKING
- FITTINGS AS NOTED
- YARD HYDRANT, SERVICE FROM BUILDING PLUMBING SYSTEM, EXCEPT WHERE INDICATED



DATE: May 13, 2024 FILENAME: 03202022005210_CIVCAD_WATER22005210_S4U-1HW-WATER.dwg

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UNOFFICIAL COPY Official bid documents, open holder's list, and addenda (if applicable) are available on BXWA.com

LAKEHAVEN WATER AND SEWER DISTRICT
Dated _____
 Water Plan Sewer Plan
APPROVED FOR CONSTRUCTION
SUBJECT TO CHANGES NOTED
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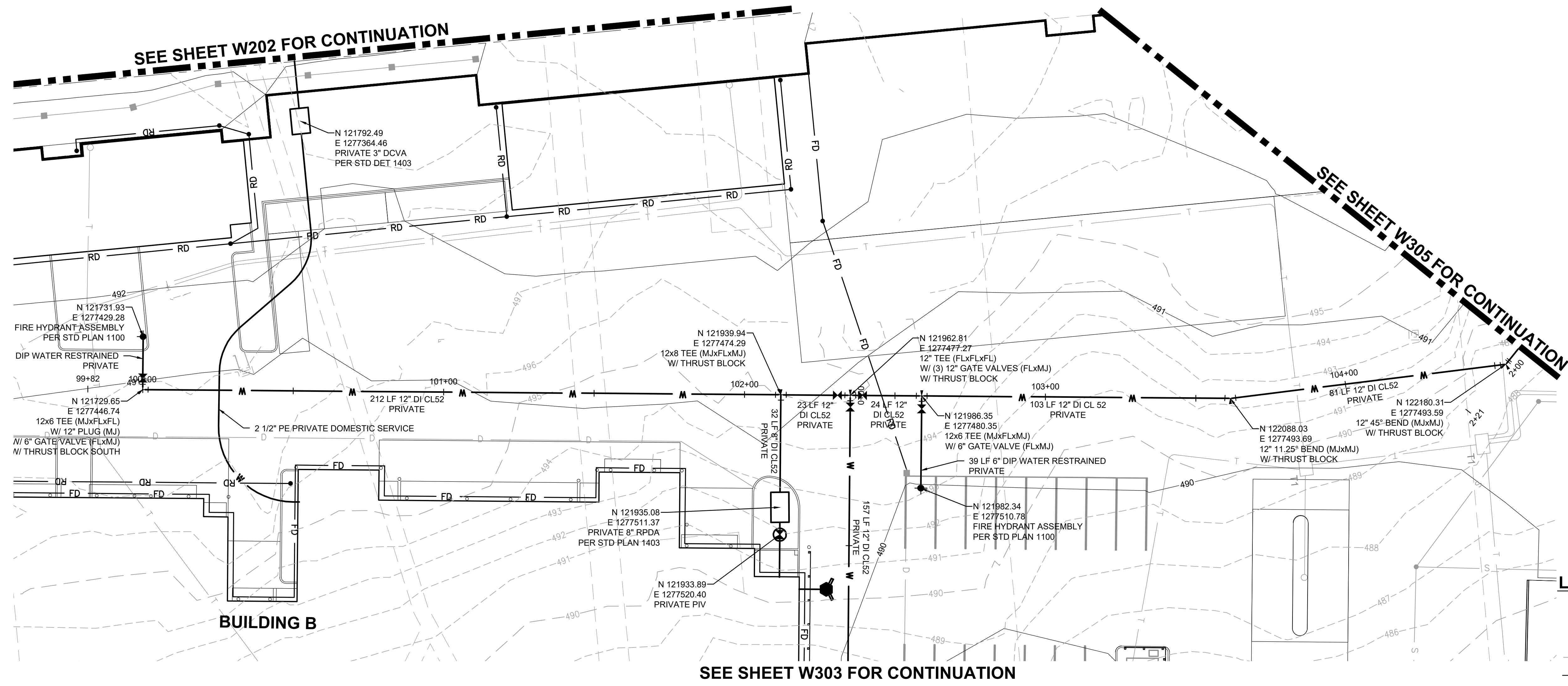
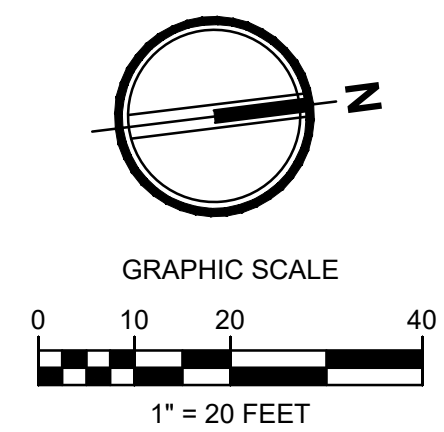
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VERTICAL DATUM
NGVD 29, PER KPG SURVEY CITY OF FEDERAL WAY - STEEL LAKE TO DOWNTOWN TRAIL, SURVEY CONTROL SHEET DATED 04/17
BM 113 "MIC" AT THE INTERSECTION OF S 312TH ST & 18 AVE S
N121113.51 E1274001.90 EL= 474.06'
NAVD88 TO NGVD29 = -3.55'

LEGEND

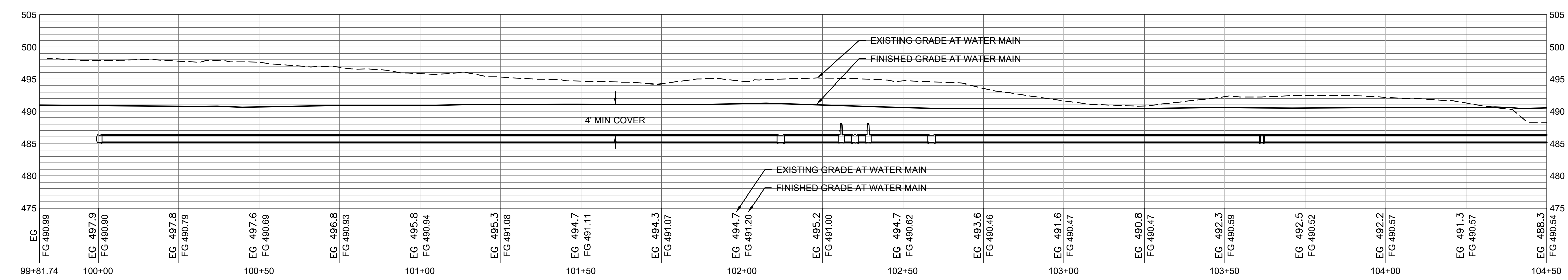
- SANITARY SEWER MANHOLE
- TWO-WAY SANITARY SEWER CLEANOUT
- CATCH BASIN TYPE-1
- S SANITARY SEWER PIPING
- W WATER PIPING
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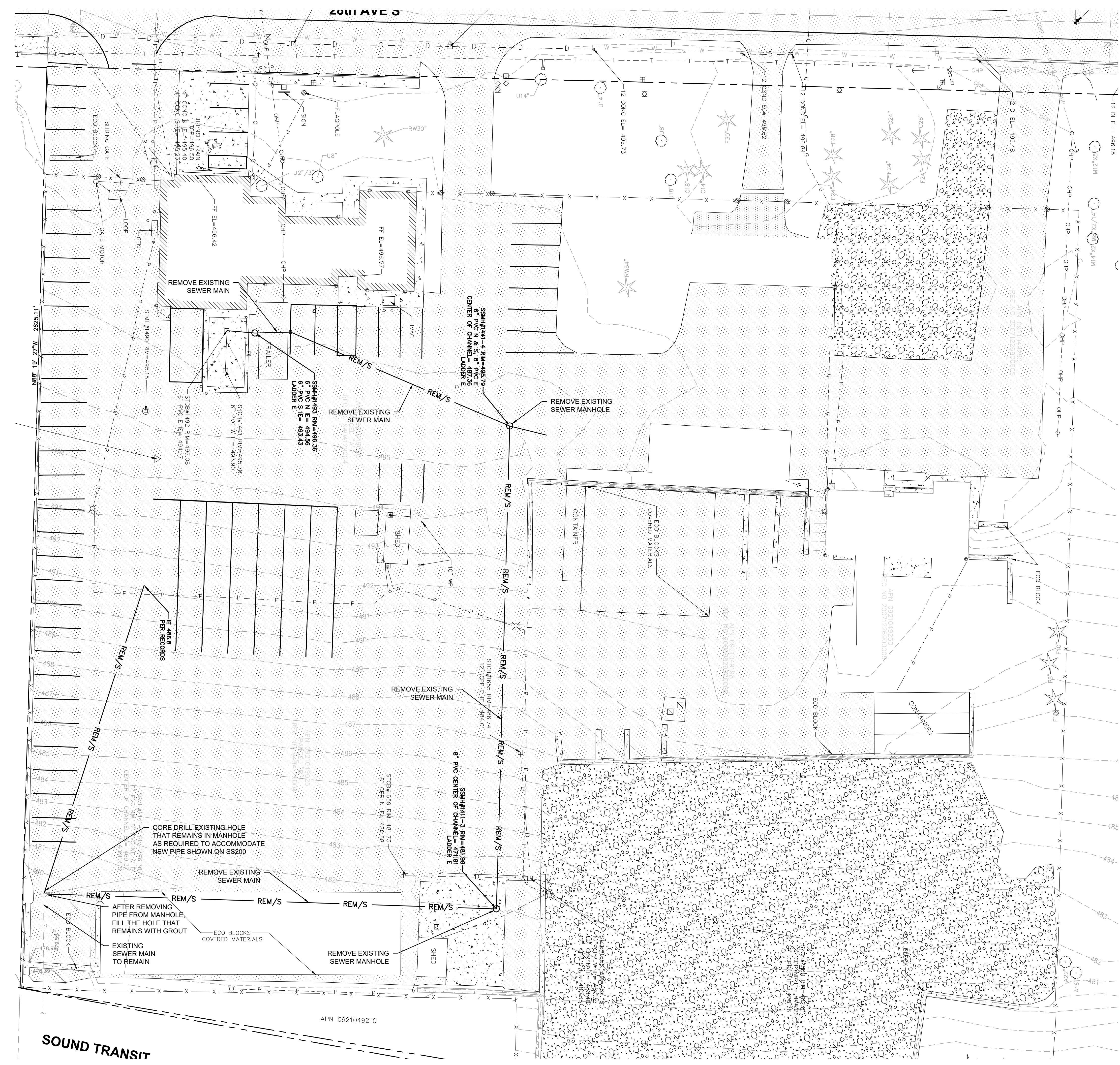
SEE SHEET W202 FOR CONTINUATION

SEE SHEET W305 FOR CONTINUATION

SEE SHEET W303 FOR CONTINUATION



DATE: May 13, 2024 FILENAME: O:\2020\220672\10_CIVCAD\WATER\220672-SH-LHW-WATER.dwg PLOTTED: FILE PATH:



LAKEHAVEN WATER AND SEWER DISTRICT

Water Plan Sewer Plan

Dated _____

APPROVED FOR CONSTRUCTION

SUBJECT TO CHANGES NOTED

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LAKEHAVEN PROJECT NO: 6324006

SANITARY SEWER MANHOLES, MAIN, AND APPURTENANCES ARE PRIVATE OWNED AND MAINTAINED BY THE CITY OF FEDERAL WAY.

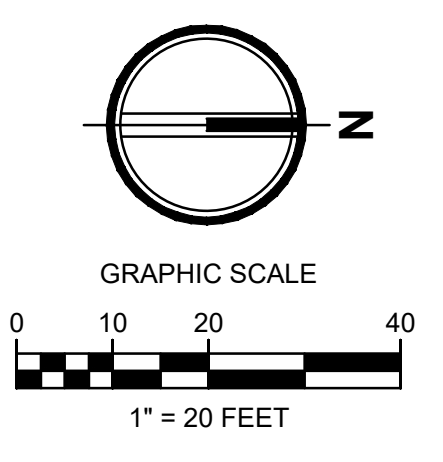
VERTICAL DATUM

NGVD 29, PER KPG SURVEY CITY OF FEDERAL WAY - STEEL LAKE TO DOWNTOWN TRAIL, SURVEY CONTROL SHEET DATED 04/17

BM 113 "MIC" AT THE INTERSECTION OF S 312TH ST & 18 AVE S

N121113 S1 E1274001.90 EL= 474.06'

NAVD88 TO NGVD29 = -3.55'



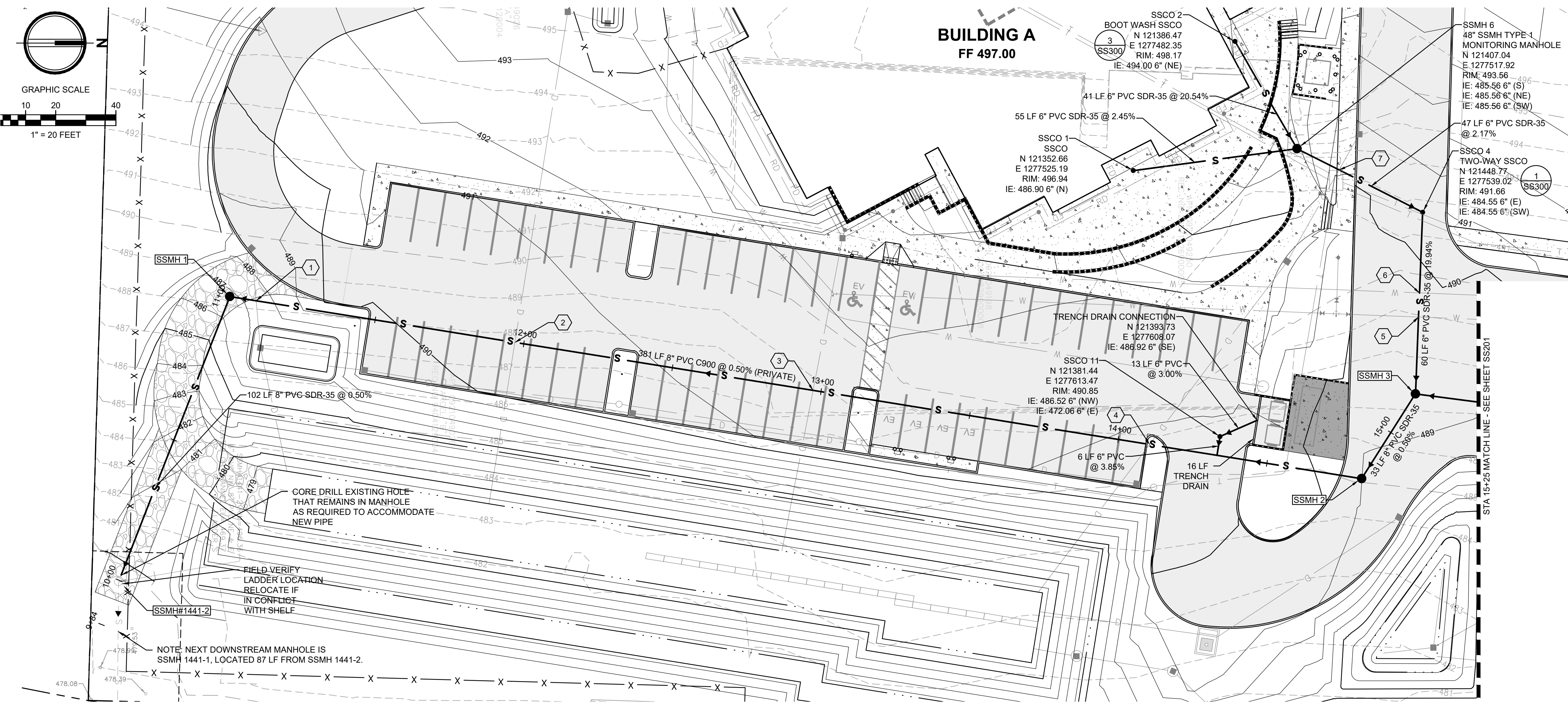
SEWER DEMOLITION PLAN

CITY OF FEDERAL WAY
JOINT OPERATIONS & MAINTENANCE FACILITY
FEDERAL WAY, WASHINGTON

REVISION	DATE

DATE: 05.06.24 JOB NO: 023-087
BID SET

DATE: May 9, 2024 FILENAME: O:\2020\20057210_CIVCAD\SEWER\200572-SH4\HS\DEM0.dwg



LAKEHAVEN WATER AND SEWER DISTRICT
APPROVED FOR CONSTRUCTION
SUBJECT TO CHANGES NOTED

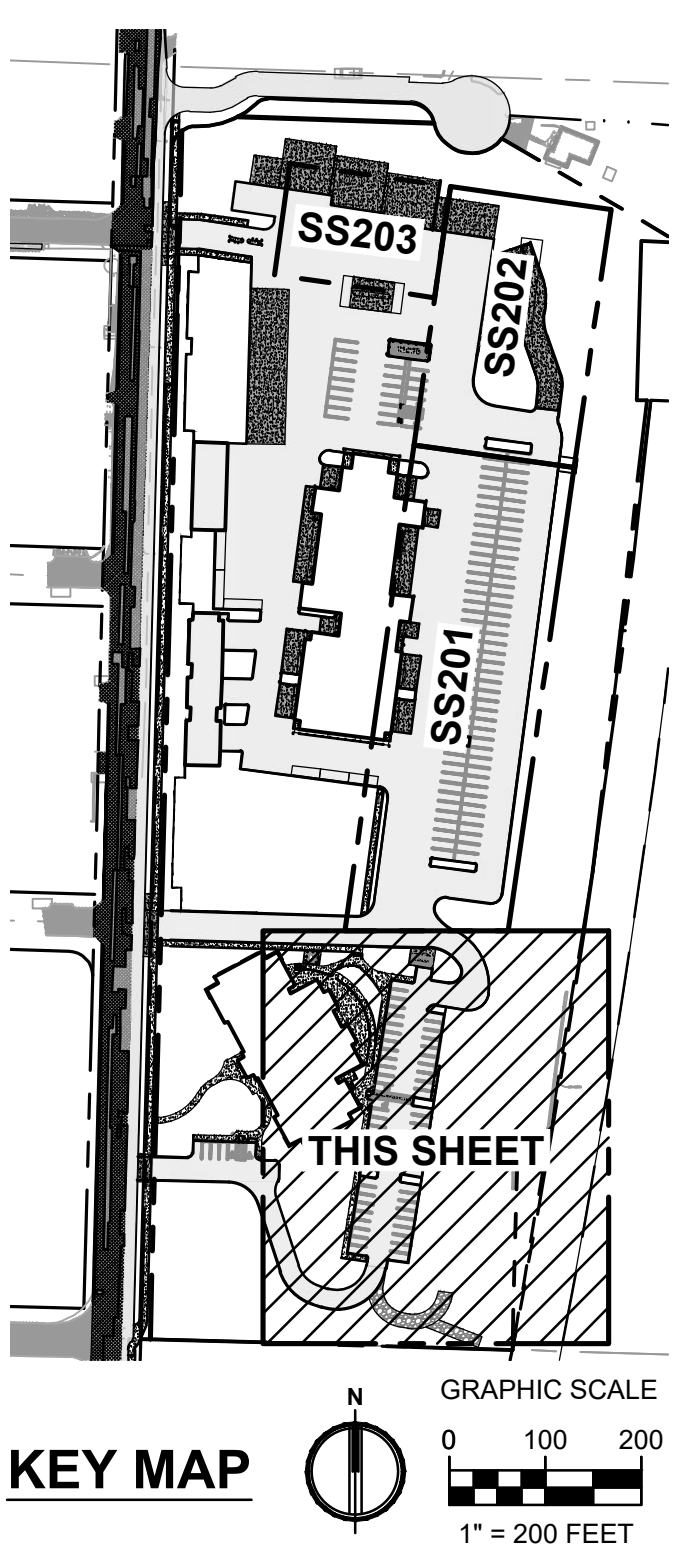
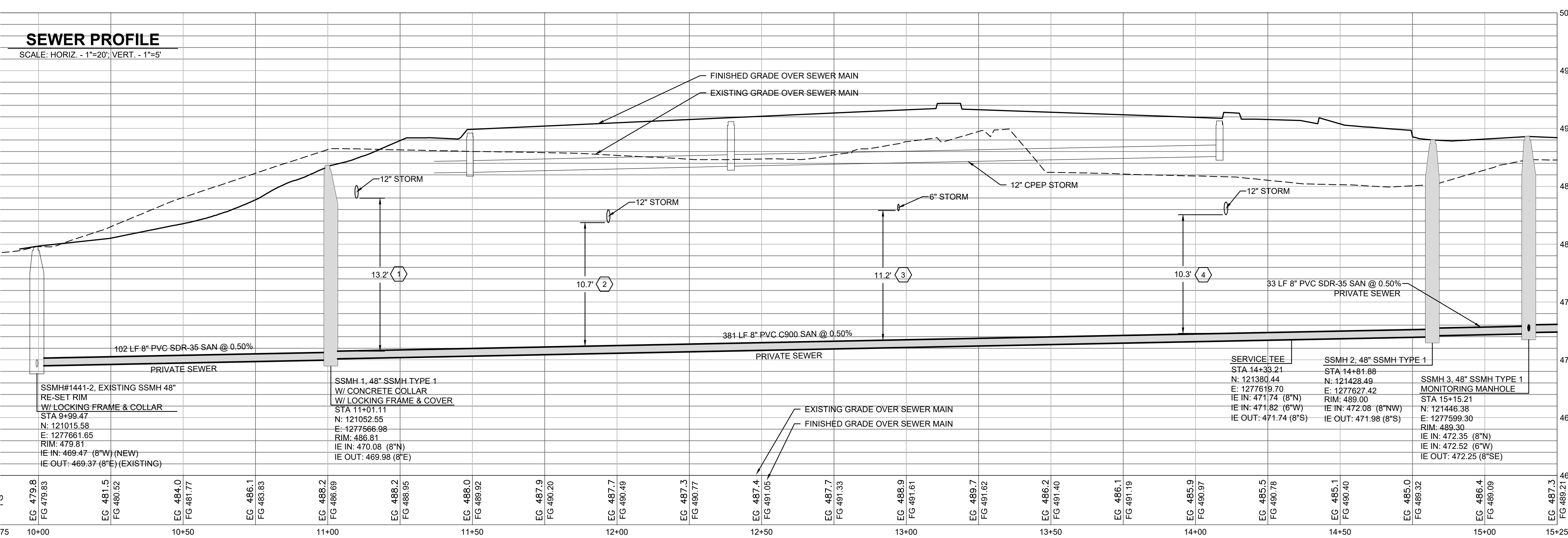
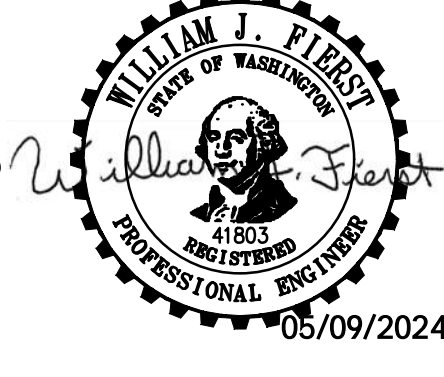
LAKEHAVEN PROJECT NO: 6324006
SANITARY SEWER MANHOLES, MAIN, AND APPURTENANCES ARE PRIVATE OWNED AND MAINTAINED BY THE CITY OF FEDERAL WAY.

VERTICAL DATUM
NGVD 29, PER KPG SURVEY CITY OF FEDERAL WAY - STEEL LAKE TO DOWNTOWN TRAIL, SURVEY CONTROL SHEET DATED 04/17

SEWER CROSSINGS:
12" CPEP SD 8" PVC SS CLEARANCE = 13.21'
12" CPEP SD 8" PVC SS CLEARANCE = 10.64'



HELIX DESIGN GROUP, INC.



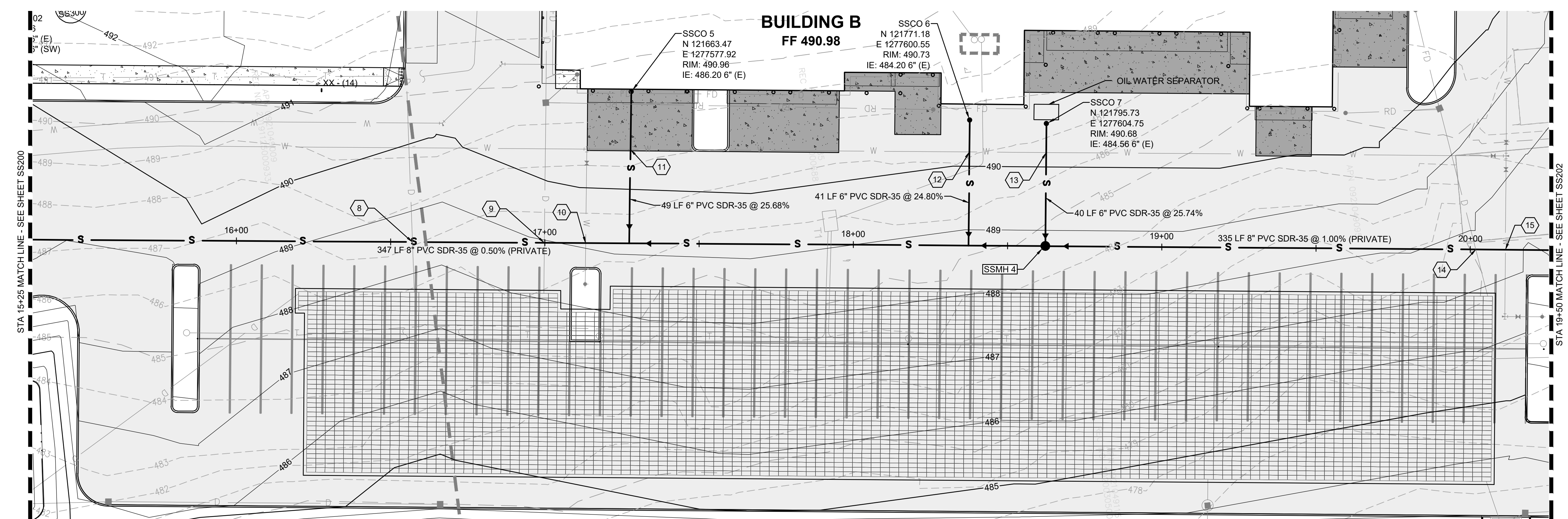
SEWER PLAN AND PROFILE

CITY OF FEDERAL WAY JOINT OPERATIONS & MAINTENANCE FACILITY

Table with columns for REVISION and DATE, containing multiple empty rows.

DATE: 05.06.24 JOB NO: 023-087 BID SET

DATE: May 9, 2024 FILENAME: O:\2020\200572\10_CIVCAD\SEWER\200572-SH4-HS-SEWER.dwg



LAKEHAVEN WATER AND SEWER DISTRICT

Water Plan Sewer Plan

Dated _____

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SUBJECT TO CHANGES NOTED

The District's review is not a confirmation of any dimension or quantities shown in the plans and will not relieve the Developer or Engineer from responsibility for plan errors. No changes shall be made to the plans except with the consent of the District.

Development Engineering Manager _____ Date _____

The District's approval of this construction plan will expire: one (1) year from the date of plan approval if construction has not commenced by such date, or two (2) years from the date of plan approval if construction has commenced.

LAKEHAVEN PROJECT NO: 6324006

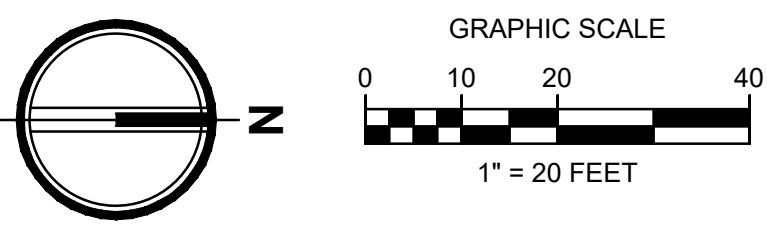
SANITARY SEWER MANHOLES, MAIN, AND APPURTENANCES ARE PRIVATE OWNED AND MAINTAINED BY THE CITY OF FEDERAL WAY.

VERTICAL DATUM

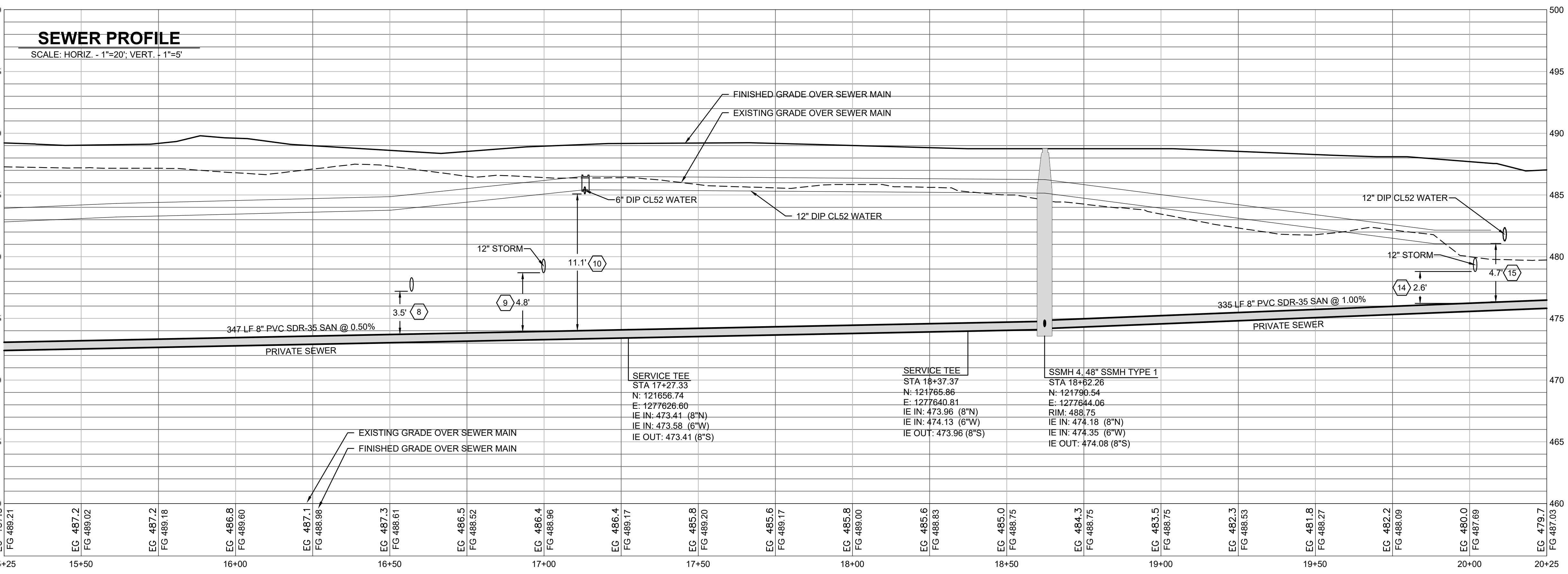
NGVD 29, PER KPG SURVEY CITY OF FEDERAL WAY - STEEL LAKE TO DOWNTOWN TRAIL, SURVEY CONTROL SHEET DATED 04/17

BM 113 "MIC" AT THE INTERSECTION OF S 312TH ST & 18 AVE S
N121118.51 E1274001.90 EL= 474.06'
NAVD88 TO NGVD29 = -3.55'

NOTE:
SEE SHEET SS300 FOR LAKEHAVEN SEWER DISTRICT STANDARD NOTES FOR SEWER CONSTRUCTION.

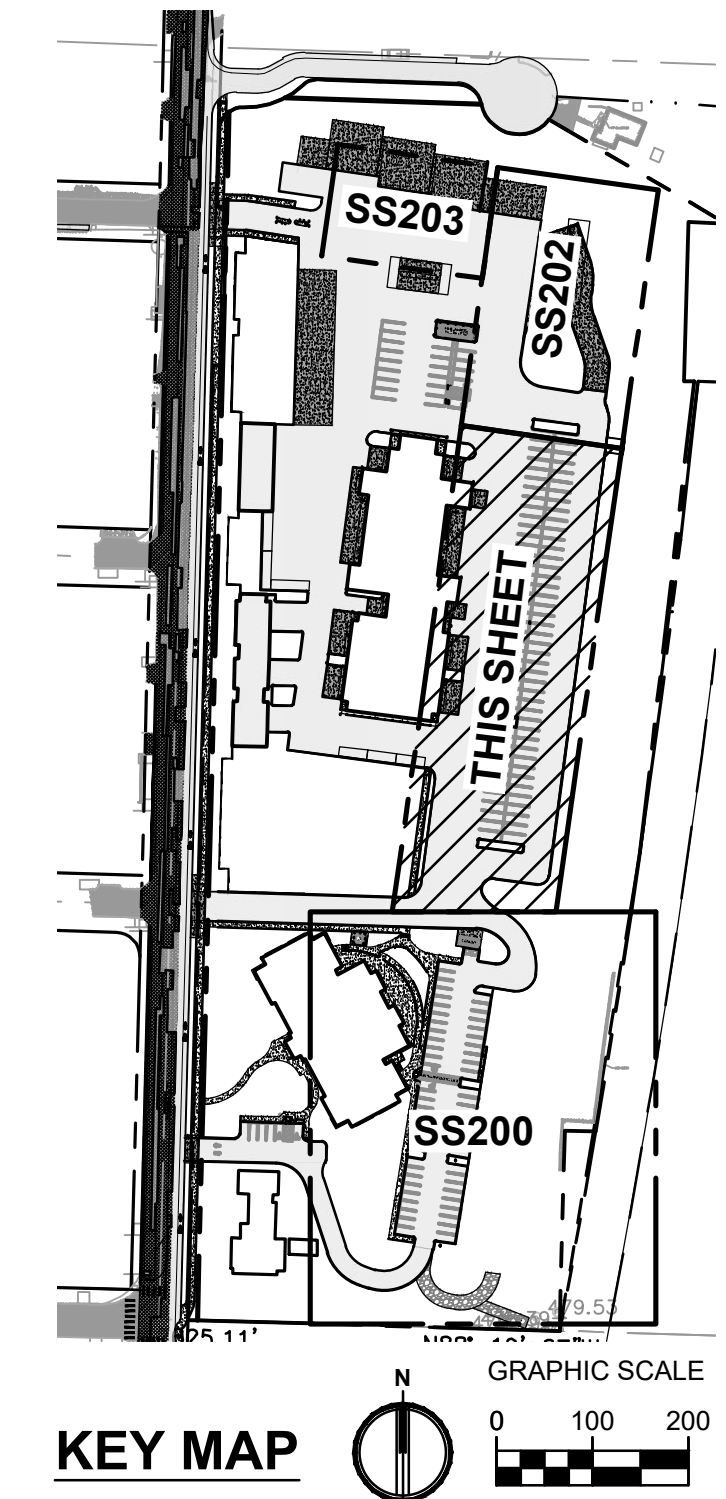


HELIX DESIGN GROUP, INC.



SEWER CROSSINGS:

8	12" CPEP SD	BOT 477.20
	8" PVC SS	TOP 473.73
		CLEARANCE = 3.47'
9	12" CPEP SD	BOT 478.70
	8" PVC SS	TOP 473.93
		CLEARANCE = 4.77'
10	6" DI WA	BOT 485.07
	8" PVC SS	TOP 474.01
		CLEARANCE = 11.06'
11	12" DI WA	BOT 486.67
	6" PVC SS	TOP 481.89
		CLEARANCE = 4.78'
12	12" DI WA	BOT 486.10
	6" PVC SS	TOP 482.14
		CLEARANCE = 3.96'
13	12" DI WA	BOT 485.96
	6" PVC SS	TOP 482.68
		CLEARANCE = 3.28'
14	12" CPEP SD	BOT 478.77
	8" PVC SS	TOP 476.22
		CLEARANCE = 2.55'
15	12" DI WA	BOT 481.06
	8" PVC SS	TOP 476.35
		CLEARANCE = 4.71'



SEWER PLAN AND PROFILE

CITY OF FEDERAL WAY
JOINT OPERATIONS & MAINTENANCE FACILITY
FEDERAL WAY, WASHINGTON

REVISION	DATE

DATE: 05.06.24 JOB NO: 023-087
BID SET

STATION	EG	FG
+25	489.21	489.21
15+50	487.2	489.02
16+00	487.2	489.18
16+50	486.8	489.09
17+00	487.1	488.98
17+50	487.3	488.91
18+00	486.5	488.52
18+50	486.4	488.96
19+00	486.4	489.17
19+50	485.6	488.20
20+00	485.6	488.83
20+25	485.0	488.75
18+00	485.6	488.83
18+50	484.3	488.75
19+00	483.5	488.75
19+50	482.3	488.53
20+00	481.8	488.27
20+25	482.2	488.09
20+50	480.0	487.89
20+75	479.7	487.06

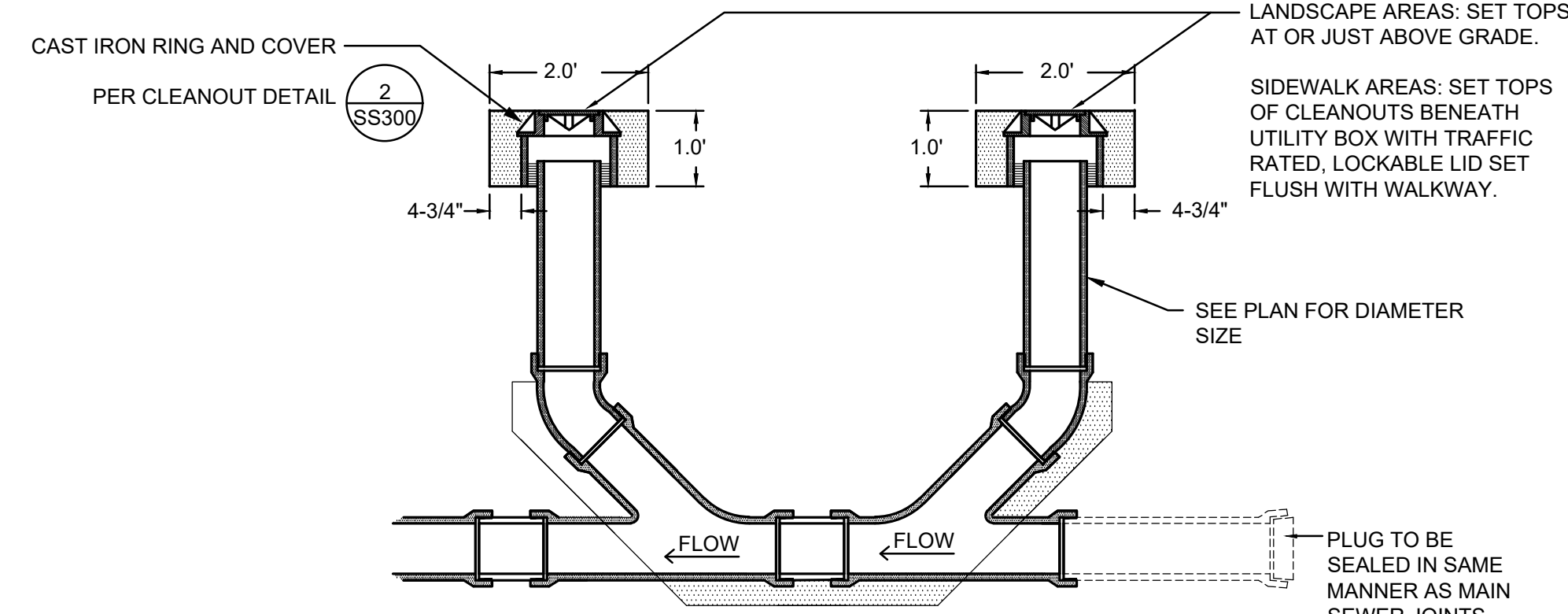
SS201

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**LAKEHAVEN WATER & SEWER DISTRICT STANDARD NOTES
FOR GRAVITY SEWER CONSTRUCTION (DECEMBER 30, 2016)**

- ALL WORK AND MATERIALS SHALL CONFORM TO THE STANDARDS OF LAKEHAVEN WATER & SEWER DISTRICT AND WASHINGTON STATE DEPARTMENT OF TRANSPORTATION/WASHINGTON STATE CHAPTER AMERICAN PUBLIC WORKS ASSOCIATION (WSDOT/APWA) "STANDARD PLANS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION" LATEST EDITION.
- CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES THAT MAY BE AFFECTED BY THIS WORK AND SHALL NOTIFY APPROPRIATE UTILITY COMPANIES TO FIELD-LOCATE THEIR FACILITIES BEFORE STARTING ANY EXCAVATION, IN ACCORDANCE WITH RCW 19.122.
- CONNECTIONS OF NEW MAINS TO EXISTING FACILITIES SHALL BE TEMPORARILY SEALED OFF UNTIL AFTER UPSTREAM CONSTRUCTION IS TESTED, CLEANED AND ACCEPTED. ALL CONSTRUCTION DEBRIS AND WATER SHALL BE REMOVED PRIOR TO OPENING THE SEAL, WITHOUT FLUSHING THE DEBRIS DOWNSTREAM.
- GRAVITY SEWER PIPE MATERIAL SHALL BE AS SHOWN ON THE PLANS, WHICH WILL BE ONE OF THE FOLLOWING AND NOT NECESSARILY INTERCHANGEABLE.
 - POLYVINYL CHLORIDE (PVC) ASTM D-3034, SDR 35 (4" THROUGH 15") OR ASTM F-678, SDR 35 (18" AND LARGER)
 - POLYVINYL CHLORIDE (PVC) AWWA C-900, DR-18 (4" THROUGH 12") OR AWWA C-905, DR-18 (14" THROUGH 36")
 - HIGH DENSITY POLYETHYLENE (HDPE) ASTM F-894, WITH GASKETED JOINTS
 - DUCTILE IRON ANSI A21.51/AWWA C-151, MINIMUM CLASS 52, EPOXY-LINED WITH PROTECTO 401™ CERAMIC EPOXY
- CRUSHED SURFACING TOP COURSE (A.K.A. 5/8" CRUSHED ROCK) SHALL BE USED FOR PIPE BEDDING FOR RIGID AND FLEXIBLE GRAVITY SEWER PIPE. THE MATERIAL SHALL BE PLACED UNDER THE PIPE TO A COMPACTED DEPTH OF 4" (FOR 24" AND SMALLER PIPE), AND TO A COMPACTED DEPTH OF 6" (FOR PIPE GREATER THAN 24"). THE MATERIAL SHALL BE PLACED 6" OVER THE TOP OF FLEXIBLE PIPE AND TO THE SPRINGLINE OF RIGID PIPE TO ASSURE UNIFORM SUPPORT. THE MATERIAL SHALL BE CAREFULLY WORKED UNDER THE PIPE HAUNCHES WITH A TOOL, CAPABLE OF PREVENTING THE FORMATION OF VOID SPACES AROUND THE PIPE.
- ALL TRENCH BACKFILL SHALL BE COMPACTED TO 95% OF RELATIVE DENSITY, OR GREATER IF SO SHOWN ON THE PLANS OR OTHERWISE REQUIRED BY THE ROAD AGENCY HAVING JURISDICTION, FROM THE BOTTOM OF THE EXCAVATION TO THE SURFACE. DEVELOPER SHALL BE RESPONSIBLE FOR ALL COSTS INCURRED FOR COMPACTION TESTING.
- TRENCH BACKFILL SHALL BE COMPACTED PRIOR TO TESTING SEWER MAIN PIPE, AND SIDE SEWER STUB(S) SHALL BE AIR TESTED AT THE SAME TIME AS THE SEWER MAIN.
- MANHOLES SHALL CONFORM TO WSDOT/APWA STANDARD PLAN B-23A, TYPE 1 OR TYPE 2 WITH ECCENTRIC CONES, AND INCLUDE 1-INCH GALVANIZED DROP SAFETY STEPS OR POLYPROPYLENE SAFETY STEPS (LANE INTERNATIONAL CORP. PART NO. P-14938) AND AT LEAST ONE (1), AND NO MORE THAN FIVE (5), FOUR-INCH (4") HIGH ADJUSTMENT RINGS BELOW THE FRAME AND COVER. ALL MANHOLE EXTERIOR SURFACES SHALL RECEIVE A PROTECTIVE COATING OF BITUMINOUS COAL TAR TO A MINIMUM THICKNESS OF 50 MILS, APPLIED AT THE FACTORY. WHERE NOTED ON THE PLANS, MANHOLE INTERIOR SURFACES SHALL RECEIVE A CORROSION PROTECTIVE EPOXY COATING OF:
 - POLYSHIELD SS-1009 (BY SPECIALTY PRODUCTS, INC. (LAKEWOOD, WA), 50 MILS MINIMUM THICKNESS) OR RAVENHIS (BY REL SOLUTIONS INC. (OKLAHOMA), 100 MILS MINIMUM THICKNESS)

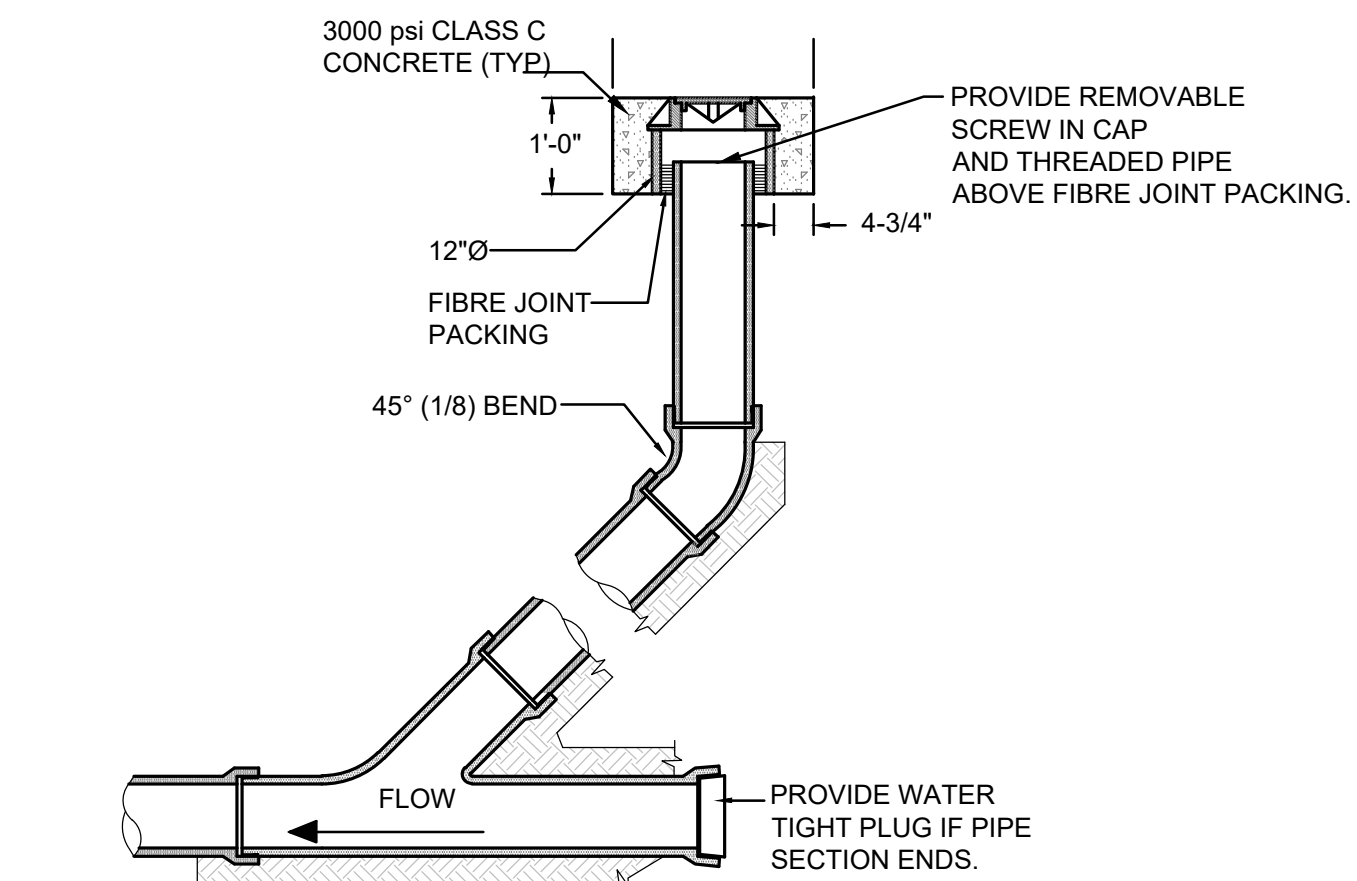
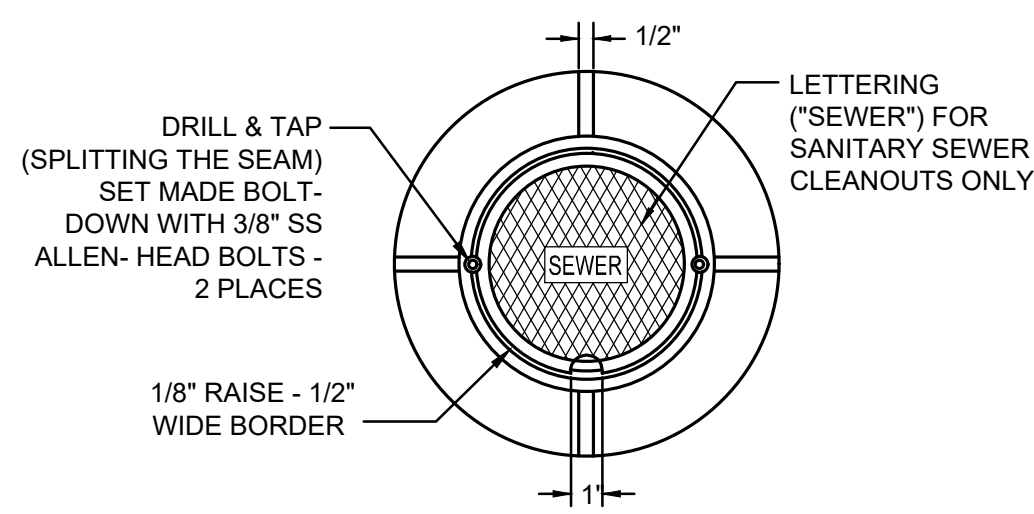
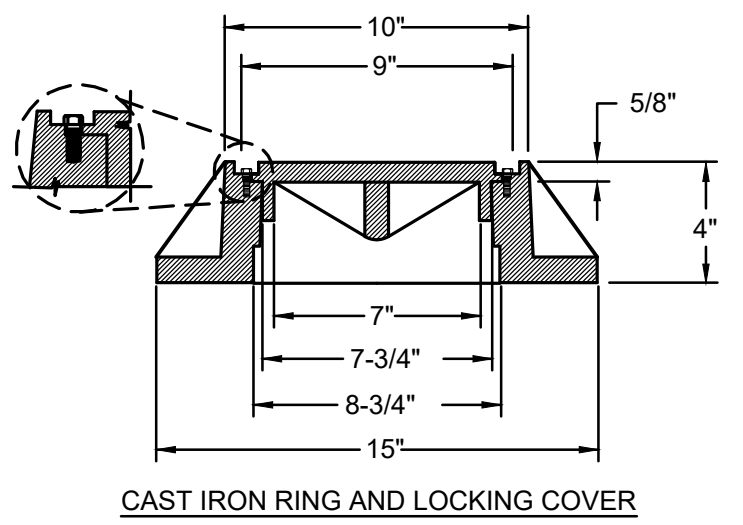
- MANHOLE FRAMES AND COVERS SHALL BE CAST IRON, WITH THE WORD "LAKEHAVEN" CAST IN THE TOP. SHALL WEIGH 140 TO 150 POUNDS, AND SHALL HAVE A SINGLE 1-INCH LIFT HOLE FITTED WITH ONE 3/4" X 3" GALVANIZED CARRIAGE BOLT WITH BURRED END TO RETAIN THE NUT AND A FLAT WASHER TO ALLOW FOR 1" BOLT TRAVEL. COVERS SHALL BE 25" IN DIAMETER.
- CONCRETE COLLARS REINFORCED WITH WIRE MESH SHALL BE INSTALLED PER DISTRICT STANDARD PLAN WHERE SHOWN ON THE PLANS.
- MANHOLE CHANNELS SHALL BE PRODUCED TO THE FULL DEPTH OF THE ASSOCIATED PIPE DIAMETER AND TO A WIDTH NO LESS THAN THE OUTSIDE DIAMETER OF THE ASSOCIATED PIPE AND NO MORE THAN 1/2-INCH IN EXCESS OF THE OUTSIDE DIAMETER OF THE ASSOCIATED PIPE. MANHOLE CHANNELS SHALL HAVE A SMOOTH FINISH, TO MINIMIZE TURBULENCE. SIDE CHANNELS FROM INLET PIPELINES SHALL BE CURVED TOWARD THE OUTLET PIPELINE TO PROVIDE A SMOOTH LAMINAR FLOW TRANSITION FROM ALL INLET PIPELINES TO THE OUTLET PIPELINE. CHANNEL MATERIAL SHALL BE A SHRINK-RESISTANT GROUT MIX, USING 65#/CU YD PORTLAND CEMENT AND 7# GRADED AGGREGATE. FOR GRAVITY SEWER SYSTEMS 15" AND LARGER, FREDLO MANHOLE LINER SYSTEMS BY FREDLO SYSTEMS NORTH AMERICA, INC. (BURNABY, B.C.) SHALL BE UTILIZED FOR CHANNELS, FLOORS AND PIPELINE CONNECTION SYSTEMS FOR MANHOLES.
- MANHOLE SHELVES SHALL HAVE A BROOM FINISH, AND BE SLOPED 1/4-INCH TO 1-INCH PER FOOT TOWARD THE CHANNEL.
- PIPE ENDS OF ALL INLET AND OUTLET PIPELINES SHALL NOT EXTEND MORE THAN 2 INCHES INSIDE THE MANHOLE, AND ALL PENETRATIONS SHALL BE SMOOTHLY GROUTED AROUND THE PIPE WITH SHRINK-RESISTANT GROUT.
- NO JOINTS FOR FLEXIBLE PIPE INLETS AND OUTLETS SHALL BE WITHIN 10 FEET OF THE MANHOLE, AND PIPELINES SHALL BE CONNECTED TO THE MANHOLE WITH PVC MANHOLE COLLARS. FLEXIBLE BOOT COLLARS ARE PROHIBITED.
- SIDE SEWER STUBS SHALL BE INSTALLED AT A GRADE OF AT LEAST 2%, AND THEIR TERMINI SHALL BE AT A DEPTH ADEQUATE TO SERVE THE INTENDED PROPERTY, CAPPED AND MARKED BY A WHITE 2X4 POST LABELED "SANITARY SIDE SEWER".



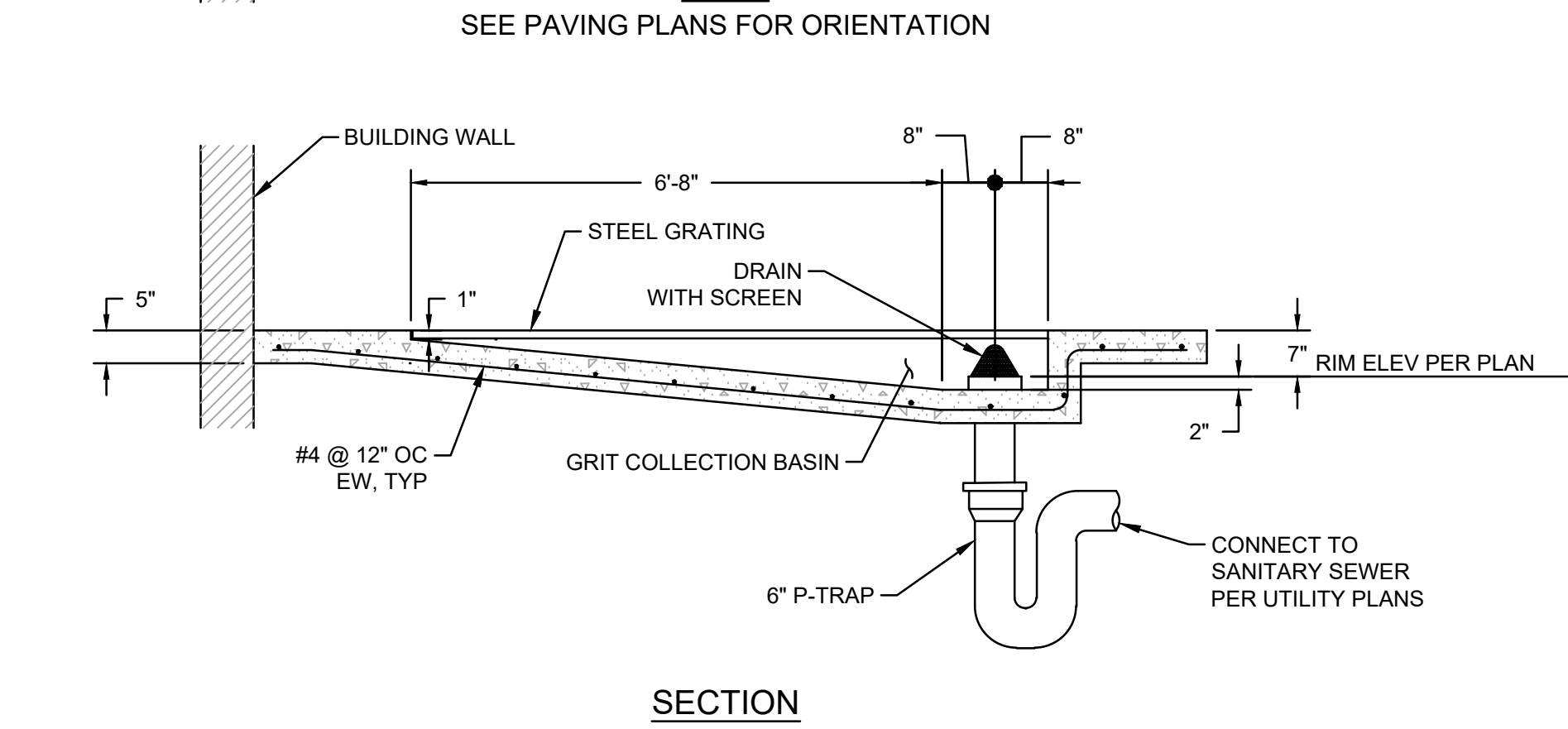
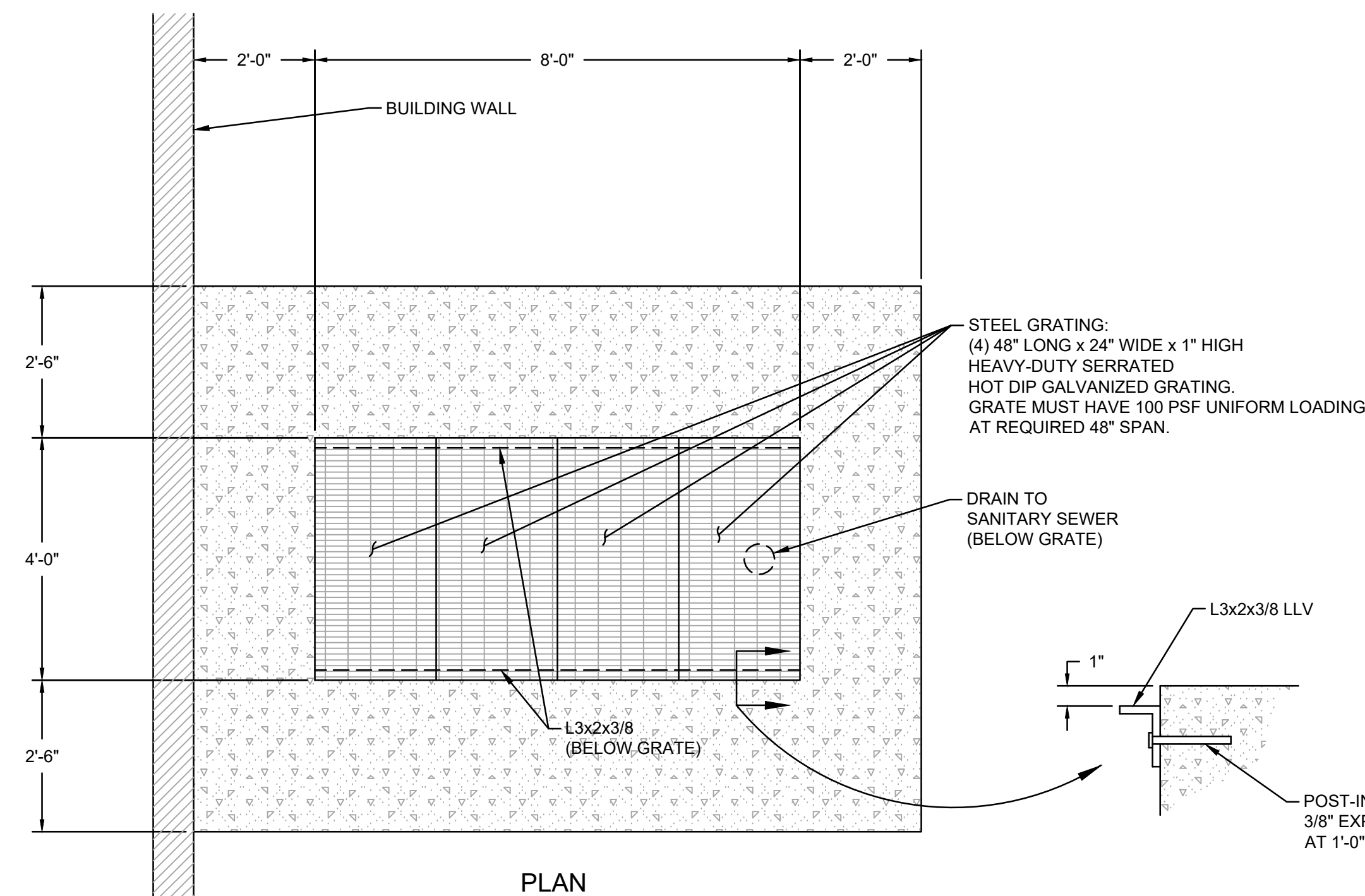
1 TWO-WAY SEWER CLEANOUT
NOT TO SCALE

LAKEHAVEN PROJECT NO: 6324006
SANITARY SEWER MANHOLES, MAIN, AND APPURTENANCES ARE PRIVATE OWNED AND MAINTAINED BY THE CITY OF FEDERAL WAY.
VERTICAL DATUM
NGVD 29, PER KPS SURVEY CITY OF FEDERAL WAY - STEEL LAKE TO DOWNTOWN TRAIL, SURVEY CONTROL SHEET DATED 04/17
BM 113 "MIC" AT THE INTERSECTION OF S 312TH ST & 18 AVE S
N1211113 S1 E1274001.90 EL= 474.06'
NAVD88 TO NGVD29 = -3.55'

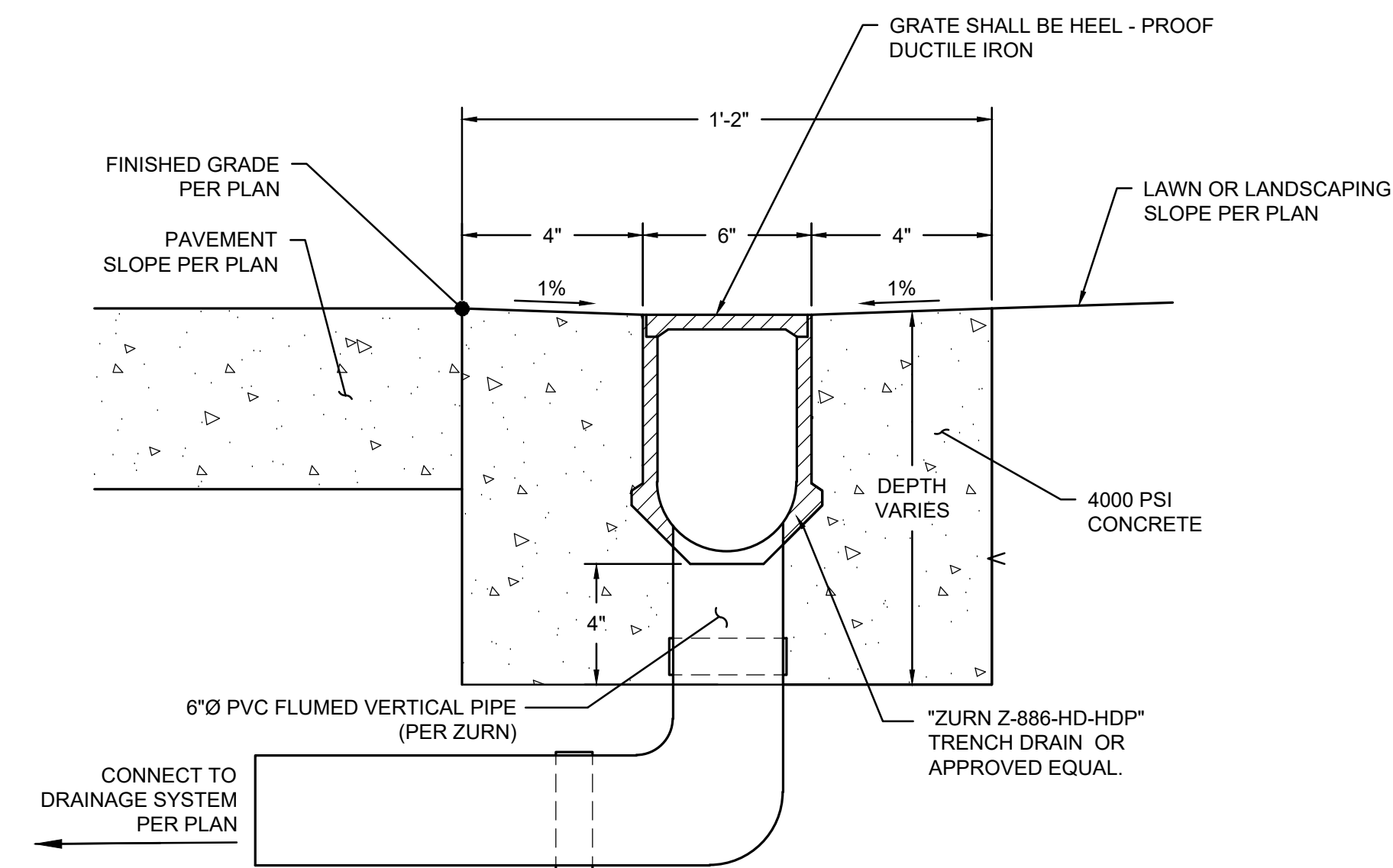
- NOTES**
- PIPE MATERIAL PER PLAN.
 - PIPE DIAMETER PER PLAN.
 - ABS TO PVC USE PVC ADAPTOR OR FERNCO W/STAINLESS STEEL CLAMPS OR APPROVED EQUAL.
 - PVC TO CAST IRON OR CONCRETE USE FERNCO W/STAINLESS STEEL CLAMPS OR APPROVED EQUAL.



2 CLEANOUT
NOT TO SCALE



3 BOOT WASH
NOT TO SCALE



4 TRENCH DRAIN
NOT TO SCALE



HELIX DESIGN GROUP, INC.



SEWER NOTES AND DETAILS

CITY OF FEDERAL WAY
JOINT OPERATIONS & MAINTENANCE FACILITY
FEDERAL WAY, WASHINGTON

REVISION	DATE

DATE: 05.06.24 JOB NO: 023-087
BID SET

SS300

DATE: May 9, 2024 FILENAME: C:\2024\050921\10_CIVCAD\SEWER\201672\SH4\HS-SEWER.dwg

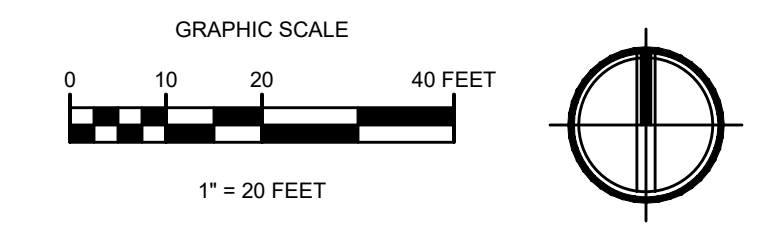


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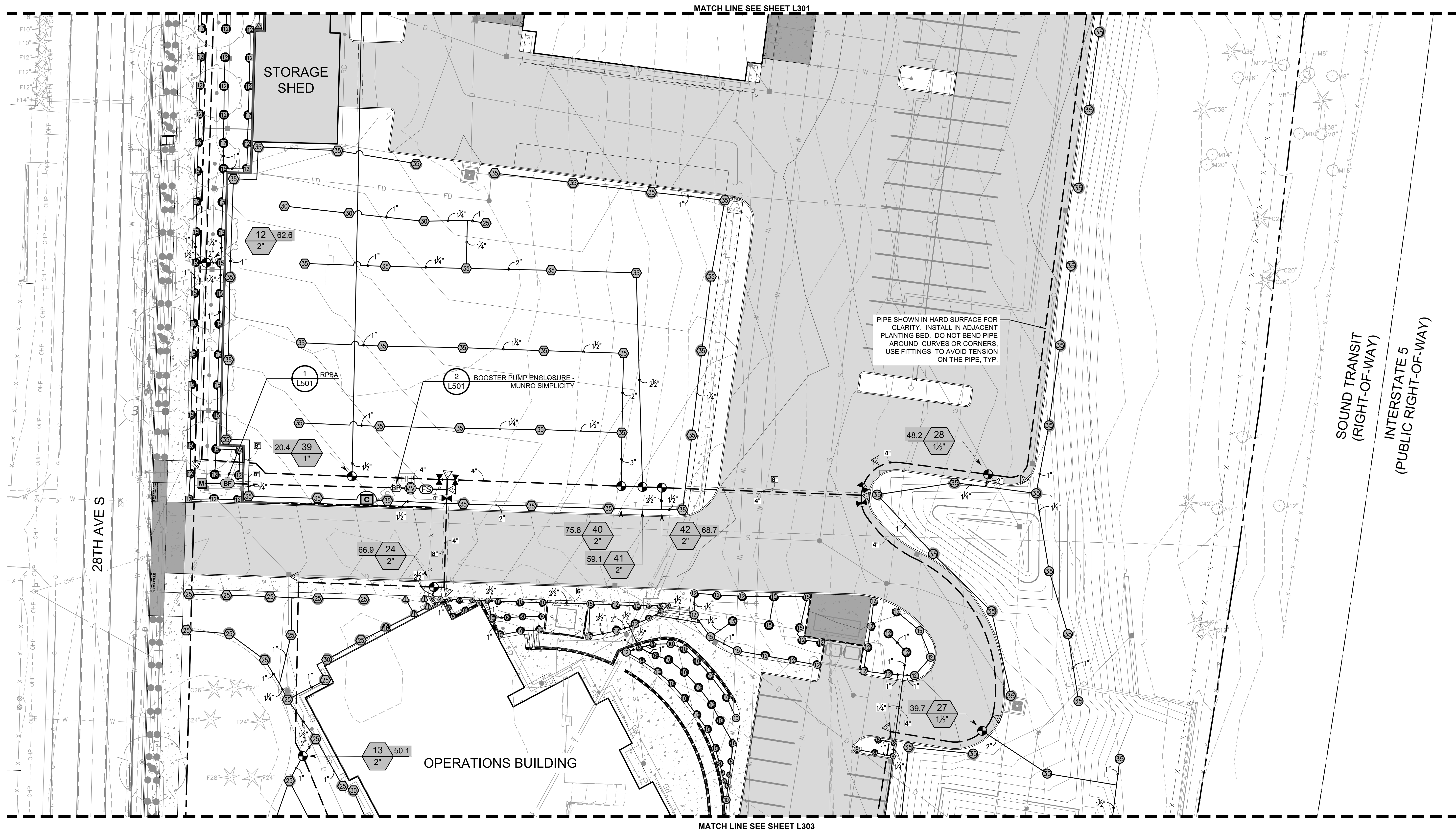
- MATCHLINE
- PROPERTY LINE / RIGHT-OF-WAY
- GRADING LIMIT, SEE CIVIL
- FENCE, SEE ARCH
- PROPOSED STRUCTURE, SEE ARCH
- EXISTING PAVING WITHIN TREE PROTECTION
- EXISTING TREES TO REMAIN
- EXISTING TREES TO DEMOLISH

- NOTES**
- SEE SHEETS L200-L204 FOR PLANTING PLANS AND SCHEDULE.
 - SEE SHEETS L300-L304 FOR IRRIGATION PLANS AND SCHEDULE.
 - SEE SHEETS L400-L403 FOR SOIL PLACEMENT PLANS.
 - SEE FEDERAL WAY JOINT OPERATIONS AND MAINTENANCE FACILITY OFF SITE PLANS FOR TREE RETENTION WITH THE RIGHT OF WAY.

- WORK WITHIN TREE PROTECTION LIMITS**
- TURF PLANTING & ORGANIC MULCH AREAS. SEE PLANTING PLAN.
 - PERFORM THE FOLLOWING WORK BY HAND: IF ROOTS GREATER THAN 2 INCH ARE ENCOUNTERED, CUT CLEANLY AND KEEP MOIST.
 - REMOVAL OF EXISTING VEGETATION.
 - ESTABLISHMENT OF SUBGRADE ELEVATION TO ACCOMMODATE IMPORT TOPSOIL & ORGANIC MULCH.
 - EXCAVATION FOR ROOT BARRIER AND STEEL EDGING INSTALLATION.
 - DEMOLITION OF EXISTING PAVEMENT.
 - ESTABLISH TREE PROTECTION FENCING AT PERIMETER OF EXISTING PAVEMENT UNTIL THE FOLLOWING WORK IS COMPLETE.
 - DEMOLITION EQUIPMENT SHALL OPERATE WITHIN THE LIMITS OF EXISTING PAVEMENT TO AVOID COMPACTION OF EXISTING TREES' CRITICAL ROOT ZONES.
 - REMOVAL OF BASE AGGREGATE SHALL BE DONE BY HAND TO AVOID DAMAGING ROOTS.



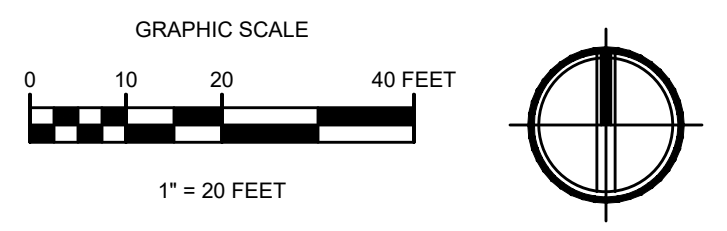
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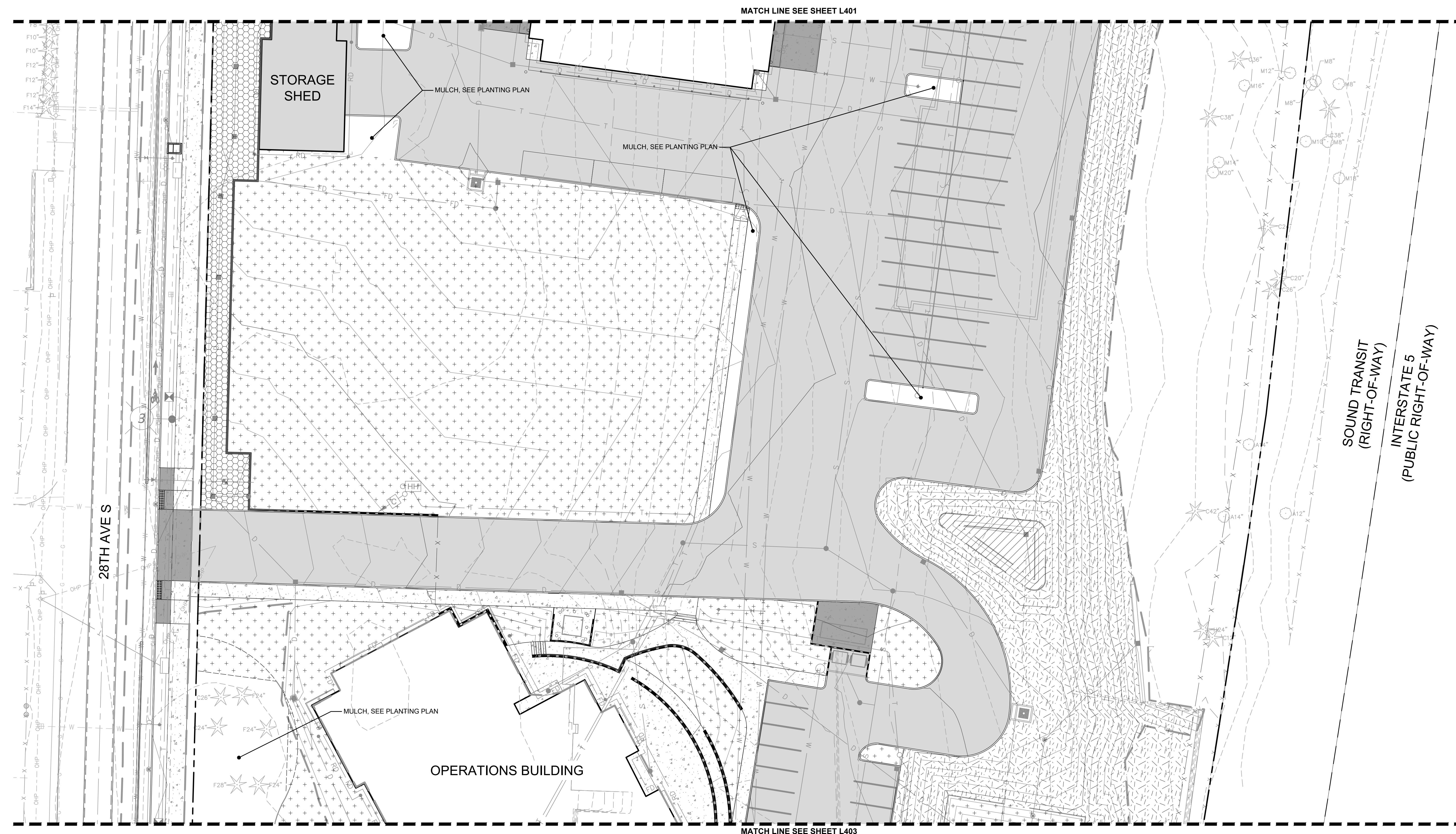
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- MATCHLINE
- PROPERTY LINE / RIGHT-OF-WAY
- GRADING LIMIT, SEE CIVIL
- FENCE, SEE ARCH
- PROPOSED STRUCTURE, SEE ARCH
- EXISTING TREES TO REMAIN

- NOTES**
- SEE SHEETS L100-L103 FOR TREE RETENTION PLANS.
 - SEE SHEETS L200-204 FOR PLANTING PLANS AND SCHEDULE.
 - SEE SHEETS L400-403 FOR SOIL PLACEMENT PLANS.
 - SEE SHEETS L501-L502 FOR IRRIGATION DETAILS.
 - SEE FEDERAL WAY JOINT OPERATIONS AND MAINTENANCE FACILITY OFF SITE PLANS FOR IRRIGATION WITH THE RIGHT OF WAY.



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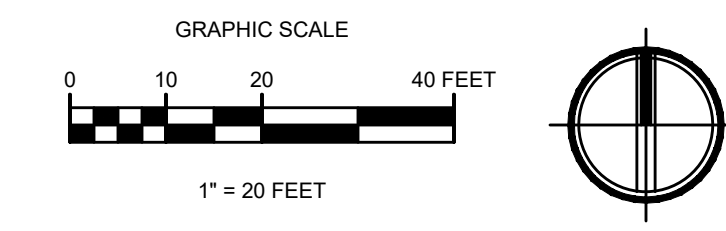
- MATCHLINE
- PROPERTY LINE / RIGHT-OF-WAY
- GRADING LIMIT, SEE CIVIL
- FENCE, SEE ARCH
- PROPOSED STRUCTURE, SEE ARCH
- EXISTING TREES TO REMAIN

- NOTES
- SEE SHEETS L100-L103 FOR TREE RETENTION PLANS.
 - SEE SHEETS L200-L204 FOR PLANTING PLANS AND SCHEDULE.
 - SEE SHEETS L300-L304 FOR IRRIGATION PLANS AND SCHEDULE.
 - SEE SHEET L500 FOR SOIL PREPARATION DETAIL.
 - SEE FEDERAL WAY JOINT OPERATIONS AND MAINTENANCE FACILITY OFF SITE PLANS FOR SOIL PLACEMENT WITH THE RIGHT OF WAY.

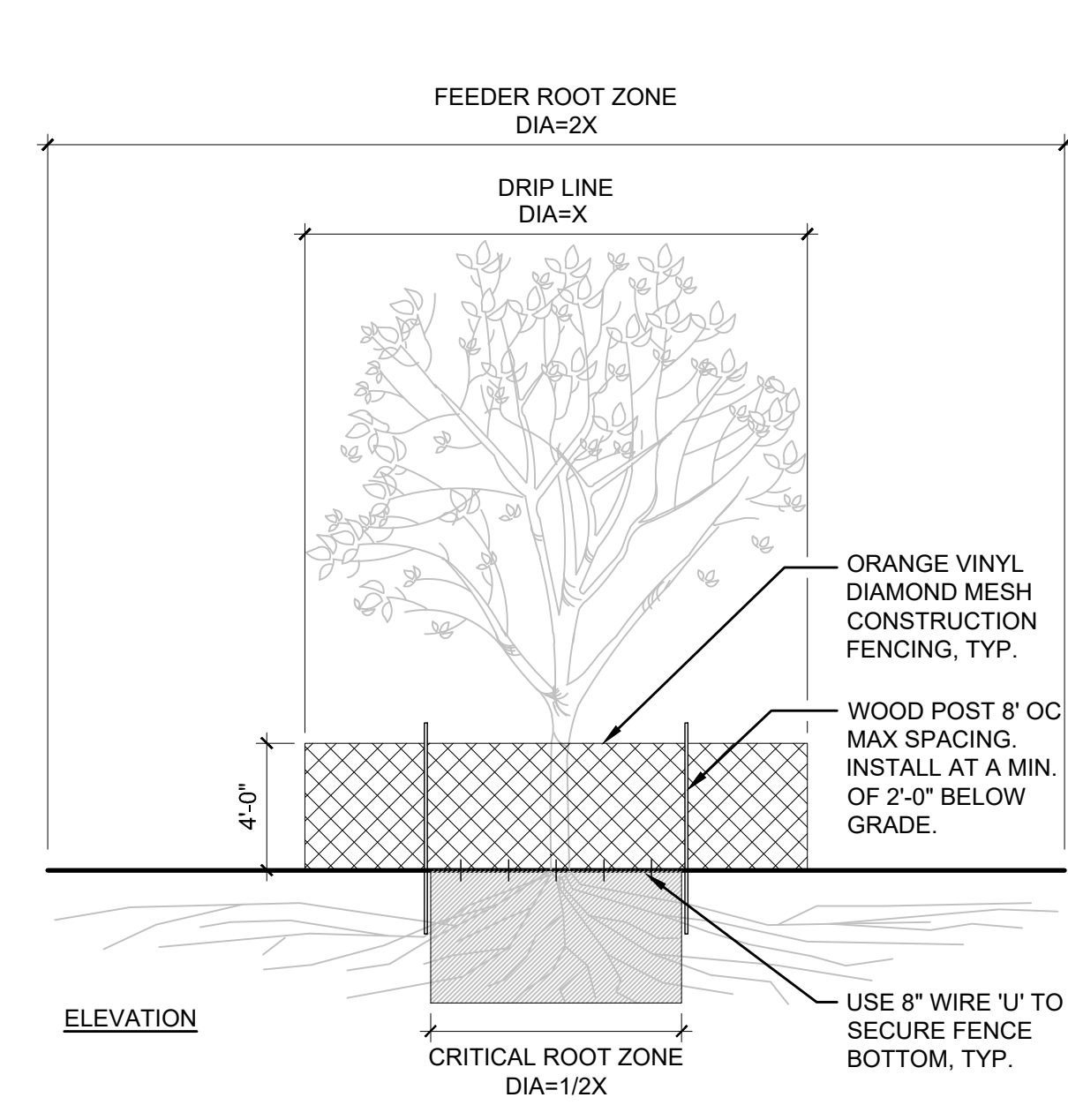
- SOIL NOTES
- SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - LEAVE UNDISTURBED AREAS INTACT AND AVOID COMPACTION OF TOPSOIL OUTSIDE CLEARING AREA UNLESS OTHERWISE NOTED ON THE PLANS.
 - MEET WASHINGTON STATE DEPARTMENT OF ECOLOGY'S STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, BMP TS 13 STANDARDS FOR POST CONSTRUCTION SOIL QUALITY AND DEPTH. LANDSCAPE AREAS, EXCEPT TURF OR AREAS OF ESTABLISHED GROUND COVER, SHALL BE COVERED WITH AT LEAST THREE INCHES OF MULCH TO MINIMIZE EVAPORATION.
 - THE CONTRACTOR SHALL VERIFY ALL SOIL QUANTITIES PRIOR TO INSTALLATION. ANY SOIL QUANTITY LISTED IS FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING QUANTITIES.

SOIL PLACEMENT SCHEDULE

[Hatching Pattern]	18" DEPTH: BIORETENTION SOIL MIX
[Hatching Pattern]	9" DEPTH: 3-WAY TOPSOIL
[Hatching Pattern]	4" DEPTH: 2-WAY TOPSOIL
[Hatching Pattern]	2" DEPTH: COMPOST AMENDMENTS

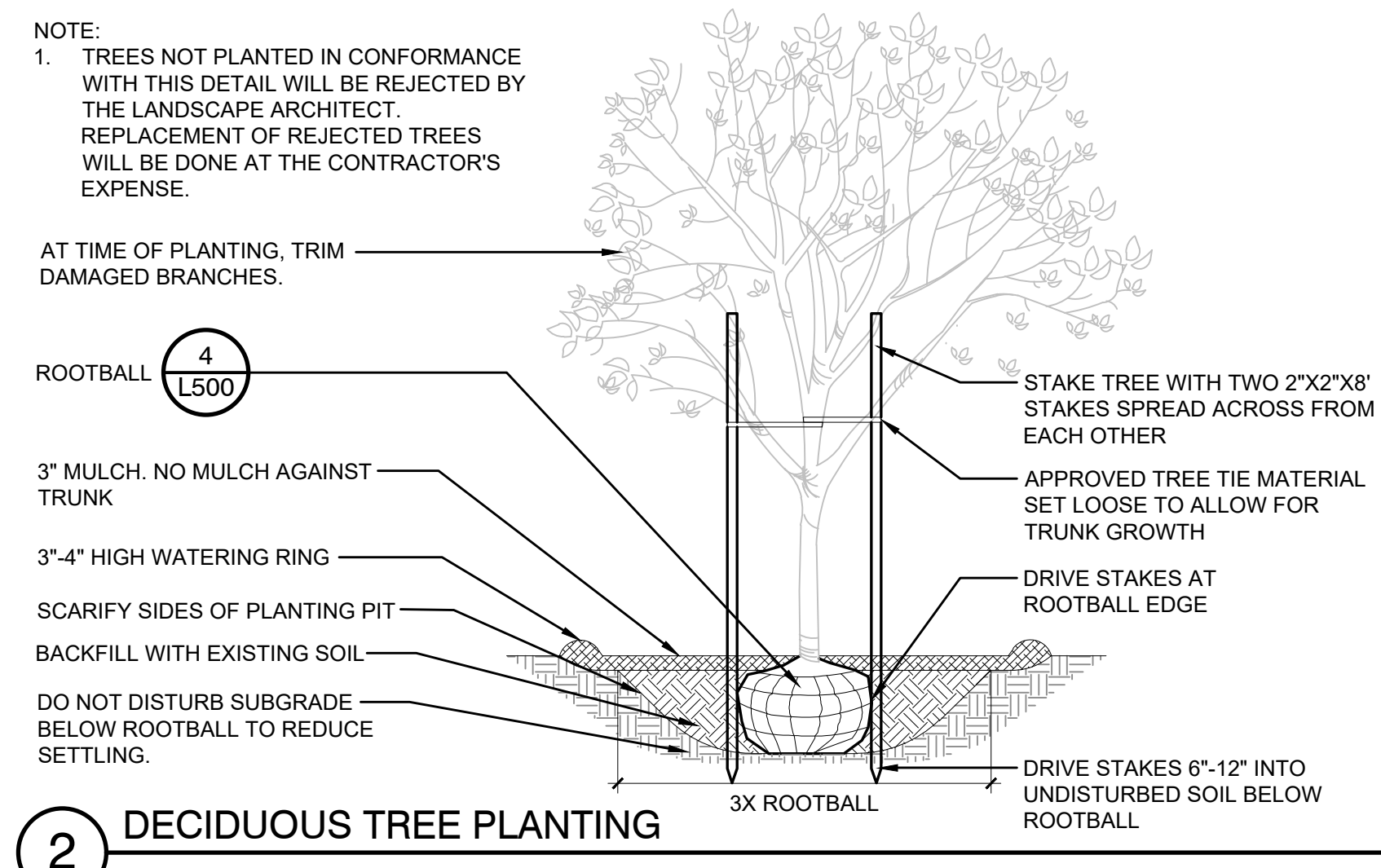


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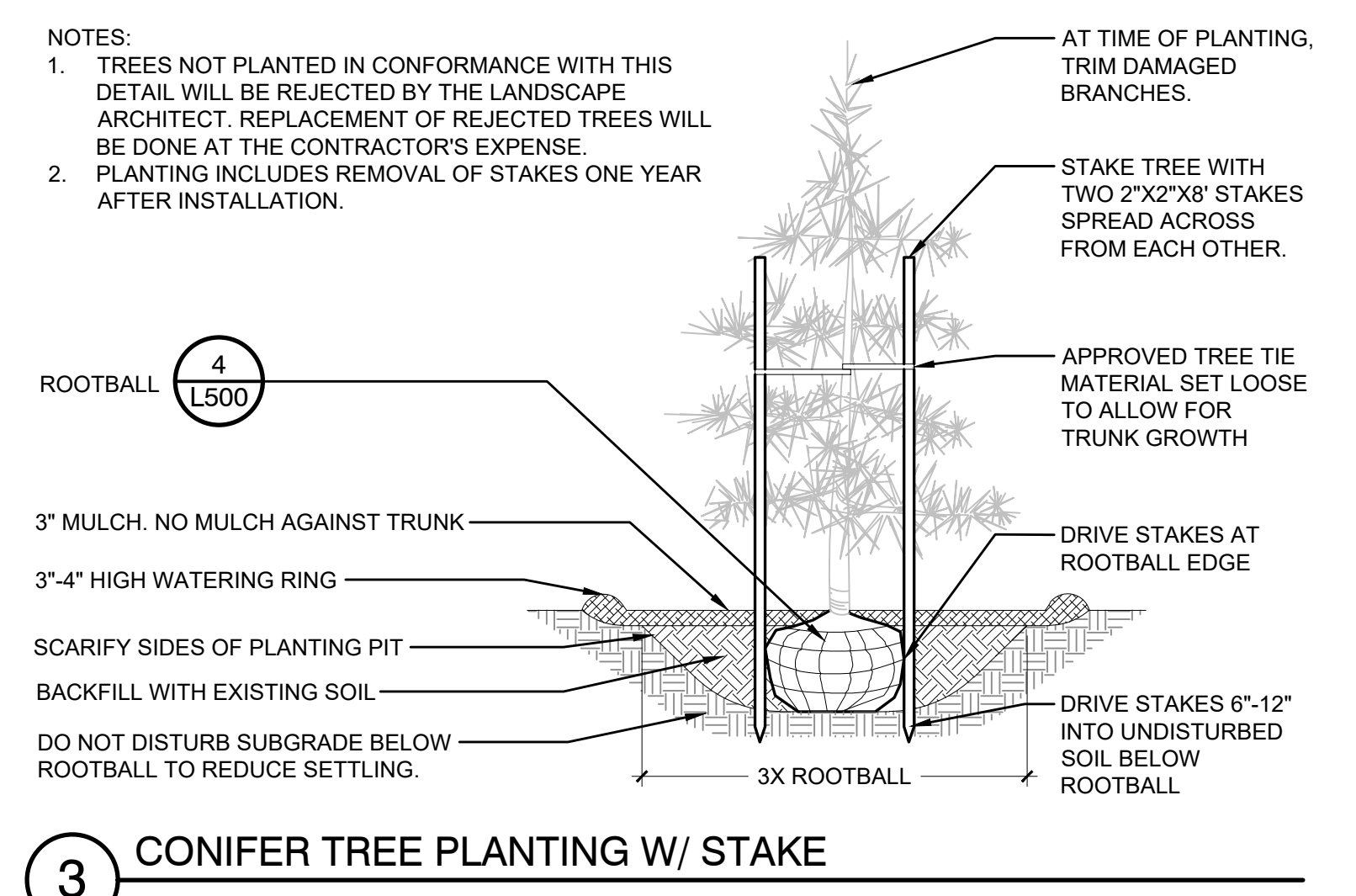
- FENCING/ROOT PROTECTION**
- FENCING TO BE PROVIDED AND MAINTAINED AT CANOPY DRIP LINE.
 - TREE PROTECTION FENCE SHOULD BE MAINTAINED THROUGHOUT GRADING AND CONSTRUCTION AND SHALL NOT BE REMOVED UNTIL FINAL ACCEPTANCE.
 - ALL BRUSH CLEANUP WITHIN DRIP LINE SHOULD BE COMPLETED BY HAND TO PREVENT DISTURBANCE OF NATIVE GROUND COVERS.
 - NO WIRES, CABLES, OR OTHER DEVICES SHALL BE ATTACHED TO PROTECTED TREES DURING CONSTRUCTION.
 - CONTRACTOR SHALL REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- TRENCHING/EXCAVATION**
- CRITICAL ROOT ZONE**
- NO DISTURBANCE ALLOWED WITHOUT SITE-SPECIFIC INSPECTION AND APPROVAL OF METHODS TO MINIMIZE ROOT DAMAGE.
- DRIP LINE**
- LANDSCAPE ARCHITECT'S APPROVAL REQUIRED FOR USE/ACCESS WITHIN DRIP LINE.
 - NO SOIL DISTURBANCE OR ACTIVITY ALLOWED WITHIN FENCED AREAS, SUCH AS MATERIAL STORAGE/STOCKPILING, PARKING, EXCAVATION, DUMPING OR WASHING.
 - ANY TRENCHING SUBJECT TO FIELD INSPECTION AND APPROVAL BY LANDSCAPE ARCHITECT.
- FEEDER ROOT ZONE**
- OPERATION OF HEAVY EQUIPMENT AND/OR STOCKPILING OF MATERIALS SUBJECT TO LANDSCAPE ARCHITECT'S APPROVAL.
 - MINIMIZE TRENCH WIDTH WHEN USING HEAVY EQUIPMENT. SURFACE PROTECTION MEASURES MAY BE REQUIRED.
 - LIMIT ANY DISTURBANCE TO MAXIMUM 1/3 OF FEEDER ROOT ZONE.
 - IF ROOTS GREATER THAN 2 INCH FOUND OUTSIDE OF FENCING, PROTECT BY HAND EXCAVATION AND, IF NECESSARY, CUT CLEANLY AND KEEP MOIST.
 - USE 3 INCHES OR DEEPER WOOD CHIP MULCH OUTSIDE FENCED AREAS TO PROTECT FEEDER ROOTS.
- *SURFACE PROTECTION MEASURES**
6-8" MULCH LAYER, 3/4" PLYWOOD, OR STEEL PLATES

1 TREE PROTECTION
3/16" = 1'-0"
P-2-FED-86



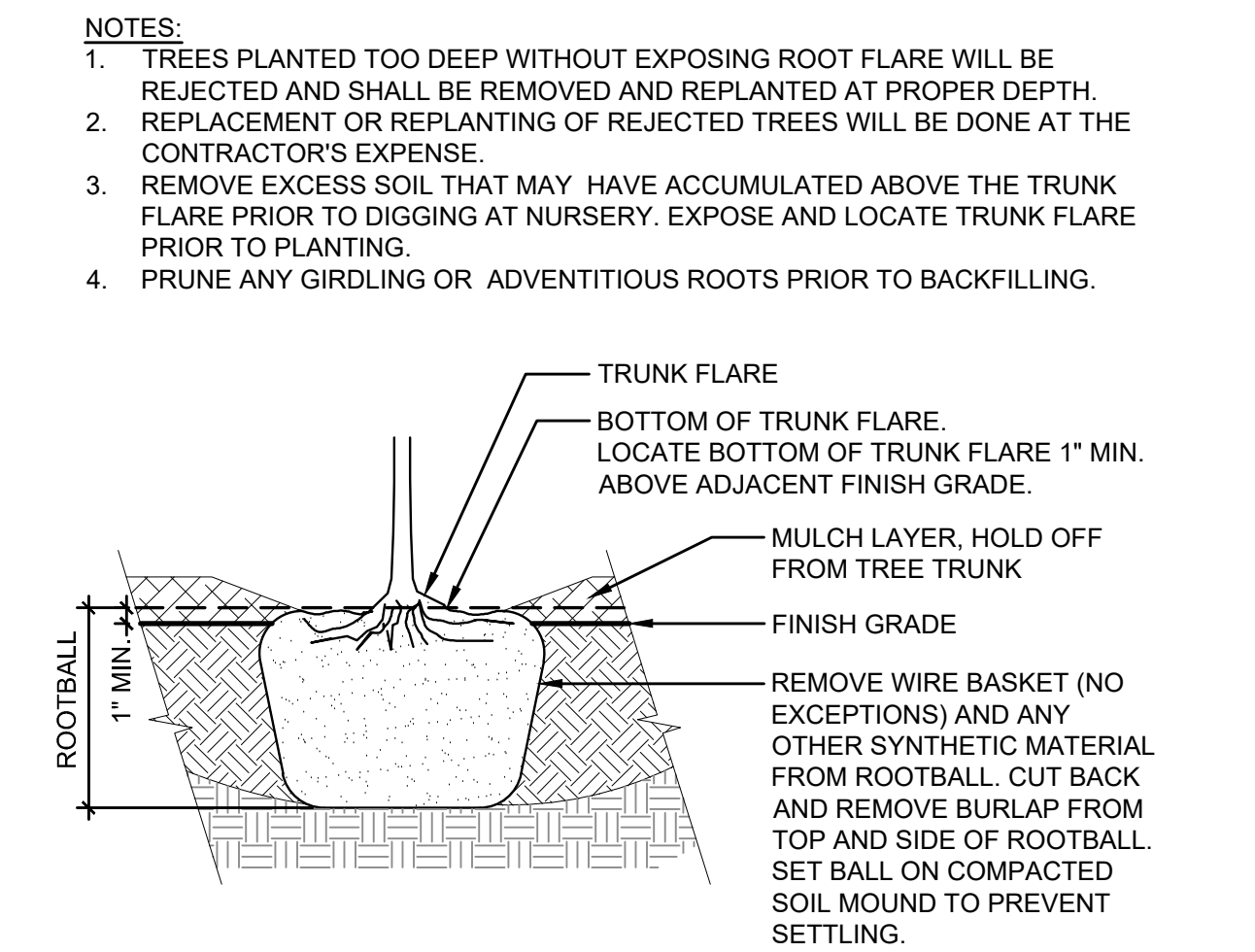
- NOTE:**
- TREES NOT PLANTED IN CONFORMANCE WITH THIS DETAIL WILL BE REJECTED BY THE LANDSCAPE ARCHITECT. REPLACEMENT OF REJECTED TREES WILL BE DONE AT THE CONTRACTOR'S EXPENSE.
- AT TIME OF PLANTING, TRIM DAMAGED BRANCHES.**
- ROOTBALL 4 L500**
- 3" MULCH. NO MULCH AGAINST TRUNK
- 3-4" HIGH WATERING RING
- SCARIFY SIDES OF PLANTING PIT
- BACKFILL WITH EXISTING SOIL
- DO NOT DISTURB SUBGRADE BELOW ROOTBALL TO REDUCE SETTLING.
- STAKE TREE WITH TWO 2"x2"x8' STAKES SPREAD ACROSS FROM EACH OTHER
- APPROVED TREE TIE MATERIAL SET LOOSE TO ALLOW FOR TRUNK GROWTH
- DRIVE STAKES AT ROOTBALL EDGE
- 3X ROOTBALL
- DRIVE STAKES 6"-12" INTO UNDISTURBED SOIL BELOW ROOTBALL

2 DECIDUOUS TREE PLANTING
3/8" = 1'-0"
P-2-FED-01



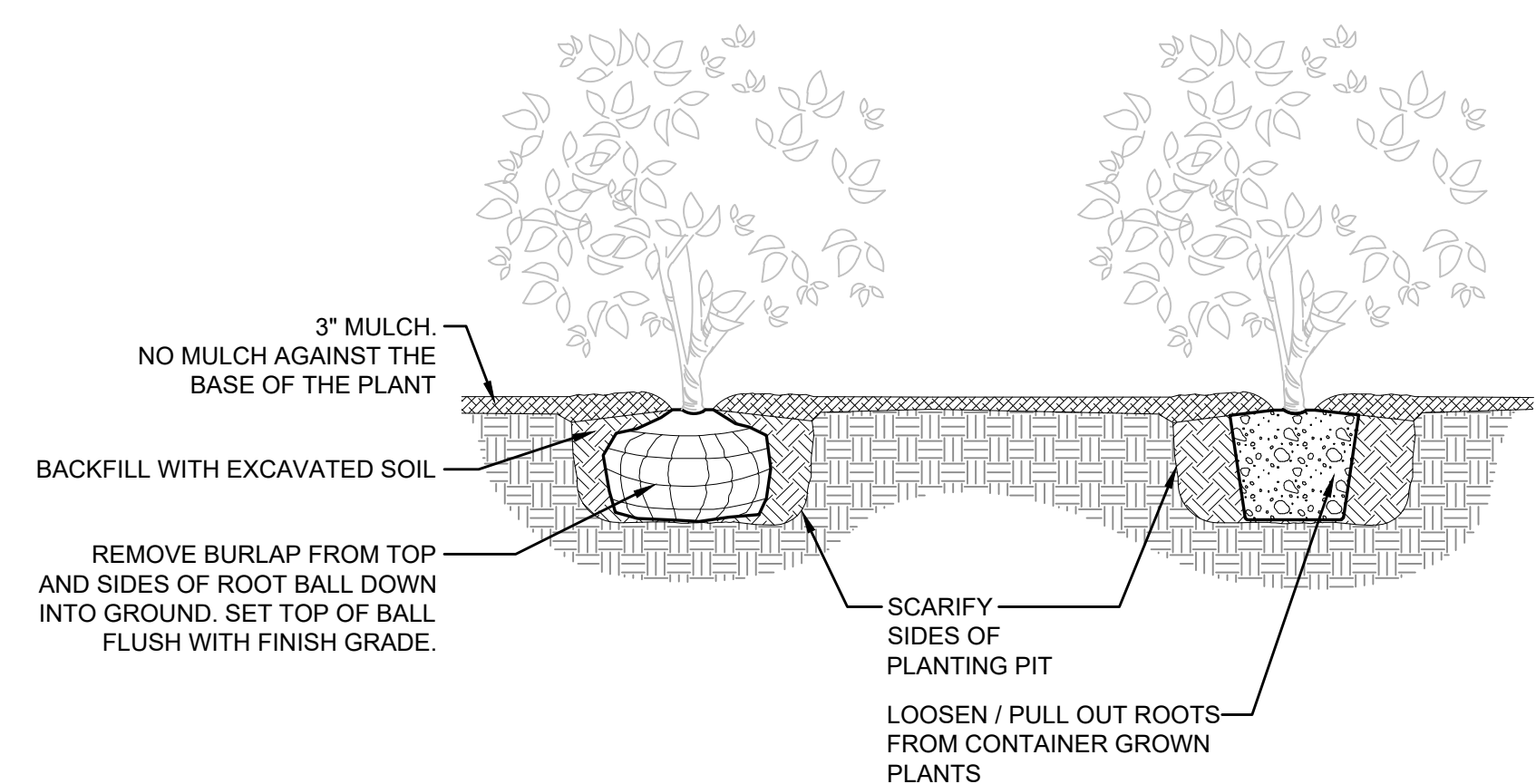
- NOTE:**
- TREES NOT PLANTED IN CONFORMANCE WITH THIS DETAIL WILL BE REJECTED BY THE LANDSCAPE ARCHITECT. REPLACEMENT OF REJECTED TREES WILL BE DONE AT THE CONTRACTOR'S EXPENSE.
 - PLANTING INCLUDES REMOVAL OF STAKES ONE YEAR AFTER INSTALLATION.
- AT TIME OF PLANTING, TRIM DAMAGED BRANCHES.**
- ROOTBALL 4 L500**
- 3" MULCH. NO MULCH AGAINST TRUNK
- 3-4" HIGH WATERING RING
- SCARIFY SIDES OF PLANTING PIT
- BACKFILL WITH EXISTING SOIL
- DO NOT DISTURB SUBGRADE BELOW ROOTBALL TO REDUCE SETTLING.
- 3X ROOTBALL
- APPROVED TREE TIE MATERIAL SET LOOSE TO ALLOW FOR TRUNK GROWTH
- DRIVE STAKES AT ROOTBALL EDGE
- DRIVE STAKES 6"-12" INTO UNDISTURBED SOIL BELOW ROOTBALL

3 CONIFER TREE PLANTING W/ STAKE
3/8" = 1'-0"
P-2-FED-07



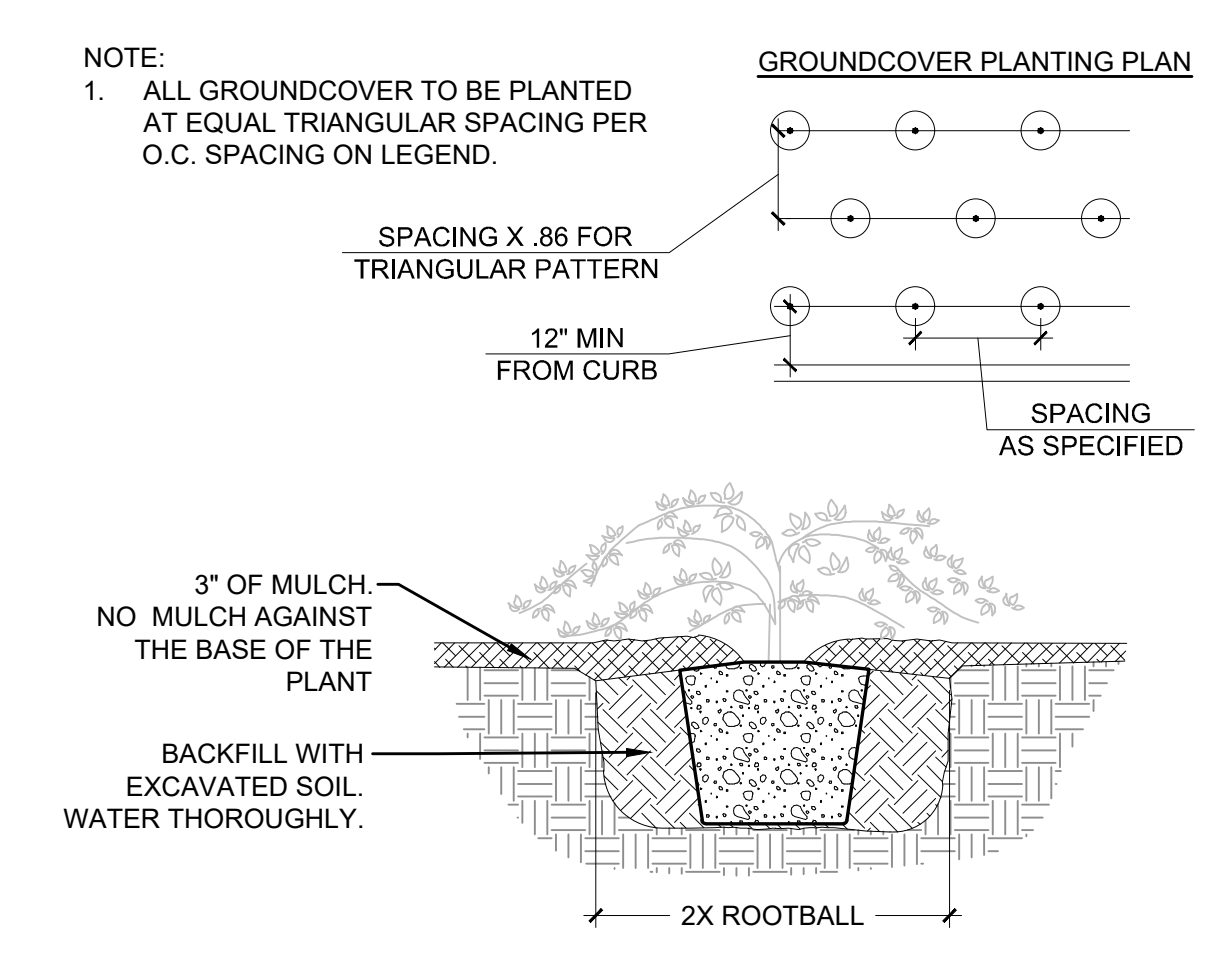
- NOTES:**
- TREES PLANTED TOO DEEP WITHOUT EXPOSING ROOT FLARE WILL BE REJECTED AND SHALL BE REMOVED AND REPLANTED AT PROPER DEPTH.
 - REPLACEMENT OR REPLANTING OF REJECTED TREES WILL BE DONE AT THE CONTRACTOR'S EXPENSE.
 - REMOVE EXCESS SOIL THAT MAY HAVE ACCUMULATED ABOVE THE TRUNK FLARE PRIOR TO DIGGING AT NURSERY. EXPOSE AND LOCATE TRUNK FLARE PRIOR TO PLANTING.
 - PRUNE ANY GIRDLING OR ADVENTITIOUS ROOTS PRIOR TO BACKFILLING.
- TRUNK FLARE
- BOTTOM OF TRUNK FLARE. LOCATE BOTTOM OF TRUNK FLARE 1" MIN. ABOVE ADJACENT FINISH GRADE.
- MULCH LAYER. HOLD OFF FROM TREE TRUNK
- FINISH GRADE
- REMOVE WIRE BASKET (NO EXCEPTIONS) AND ANY OTHER SYNTHETIC MATERIAL FROM ROOTBALL. CUT BACK AND REMOVE BURLAP FROM TOP AND SIDE OF ROOTBALL. SET BALL ON COMPACTED SOIL MOUND TO PREVENT SETTLING.
- ROOTBALL 1" MIN.

4 ROOTBALL
1" = 1'-0"
P-2-FED-10



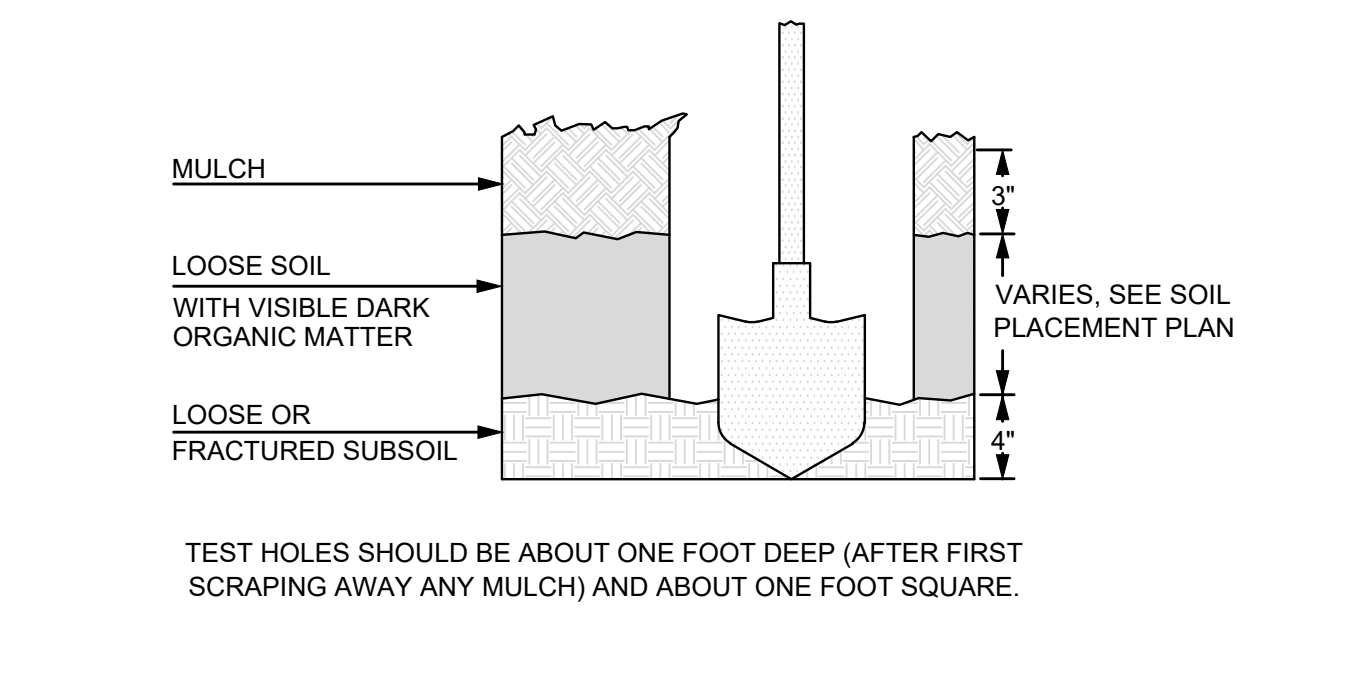
- 3" MULCH. NO MULCH AGAINST THE BASE OF THE PLANT
- BACKFILL WITH EXCAVATED SOIL
- REMOVE BURLAP FROM TOP AND SIDES OF ROOT BALL DOWN INTO GROUND. SET TOP OF BALL FLUSH WITH FINISH GRADE.
- SCARIFY SIDES OF PLANTING PIT
- LOOSEN / PULL OUT ROOTS FROM CONTAINER GROWN PLANTS
- 2X ROOTBALL

5 SHRUB PLANTING
NTS
P-2-FED-02



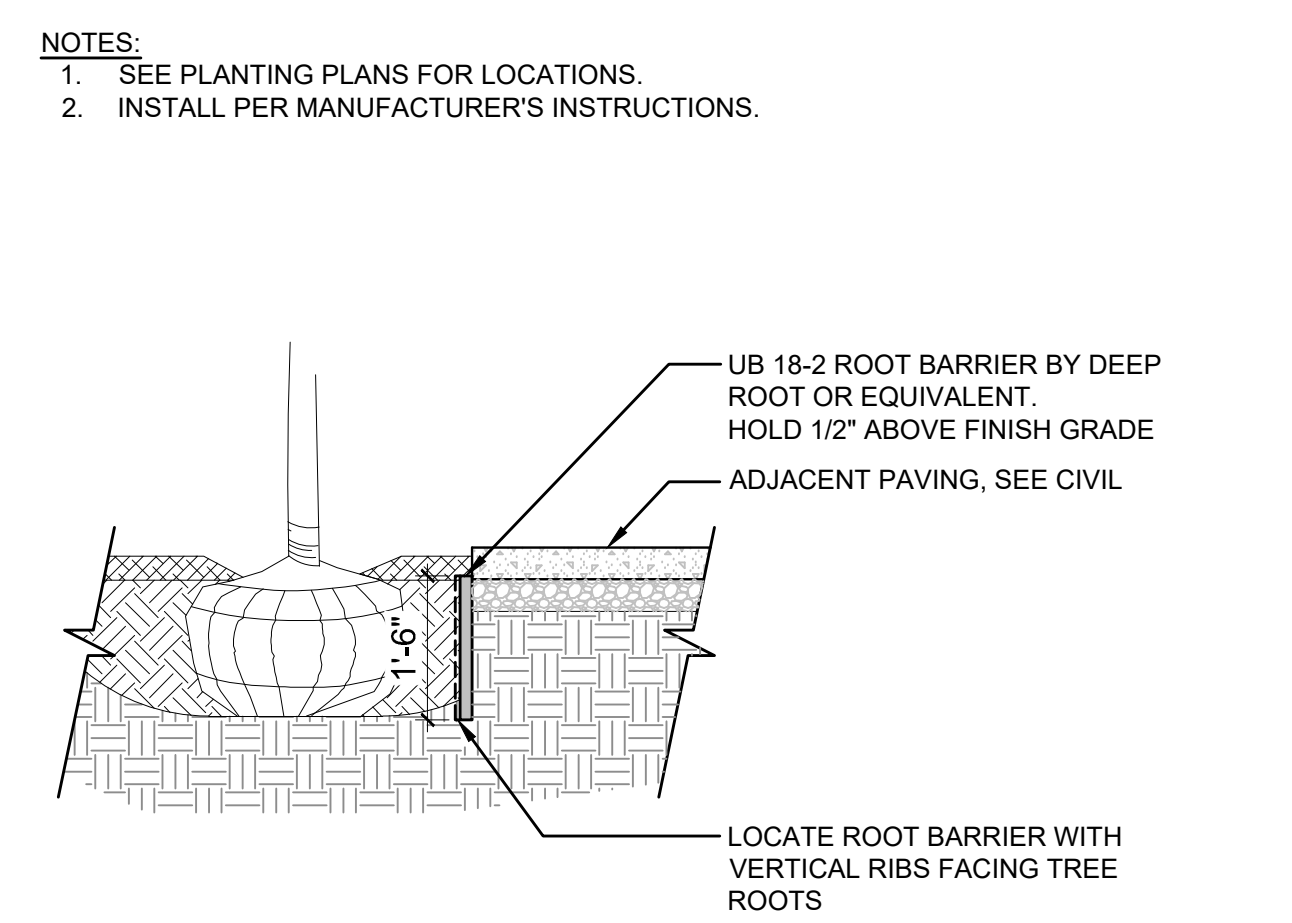
- NOTE:**
- ALL GROUNDCOVER TO BE PLANTED AT EQUAL TRIANGULAR SPACING PER O.C. SPACING ON LEGEND.
- GROUNDCOVER PLANTING PLAN
- SPACING X .86 FOR TRIANGULAR PATTERN
- 12" MIN FROM CURB
- SPACING AS SPECIFIED
- 3" OF MULCH. NO MULCH AGAINST THE BASE OF THE PLANT
- BACKFILL WITH EXCAVATED SOIL. WATER THOROUGHLY.
- 2X ROOTBALL

6 GROUNDCOVER PLANTING
1/2" = 1'-0"
P-2-FED-11



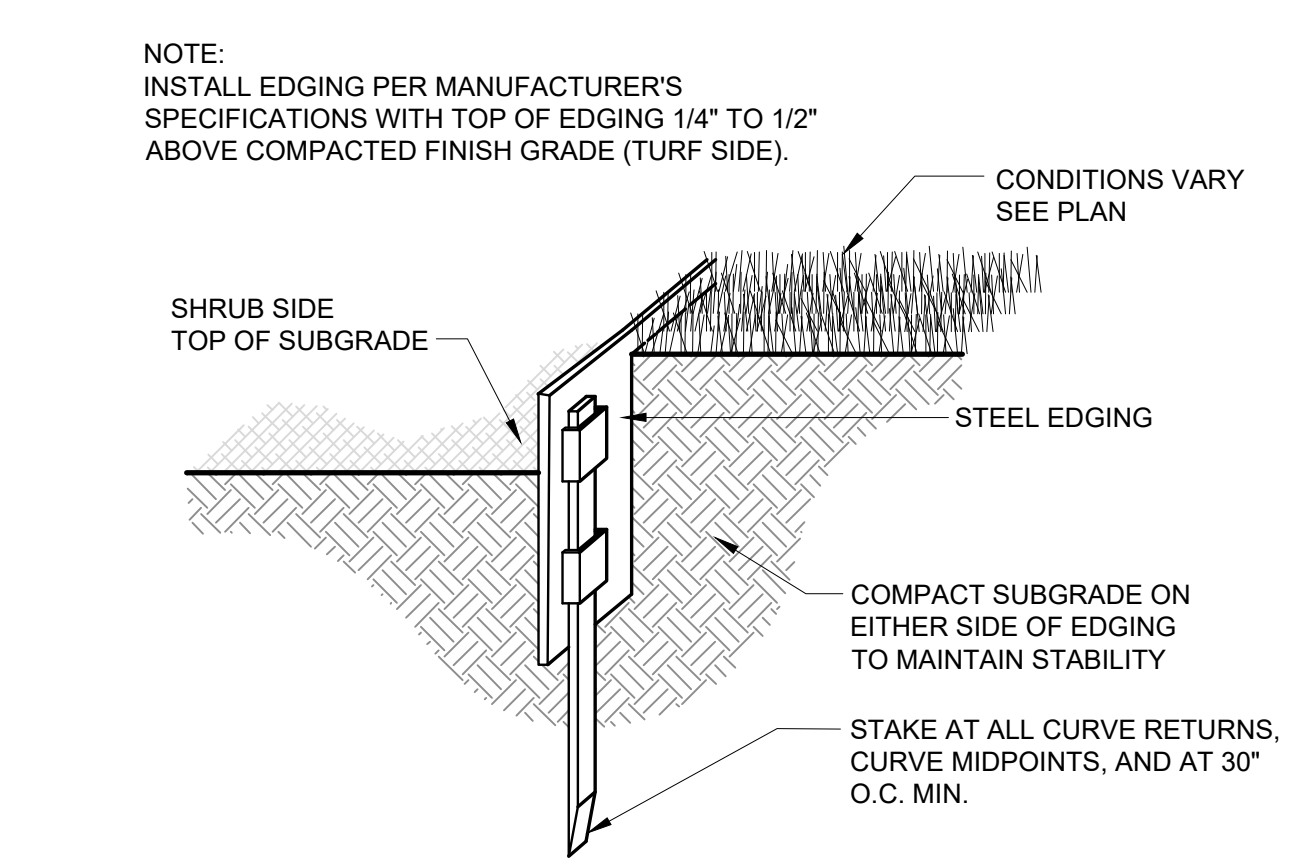
- MULCH
- LOOSE SOIL WITH VISIBLE DARK ORGANIC MATTER
- LOOSE OR FRACTURED SUBSOIL
- TEST HOLES SHOULD BE ABOUT ONE FOOT DEEP (AFTER FIRST SCRAPING AWAY ANY MULCH) AND ABOUT ONE FOOT SQUARE.
- VARIES. SEE SOIL PLACEMENT PLAN

7 SOIL AMENDMENT
NTS
P-2-FED-35



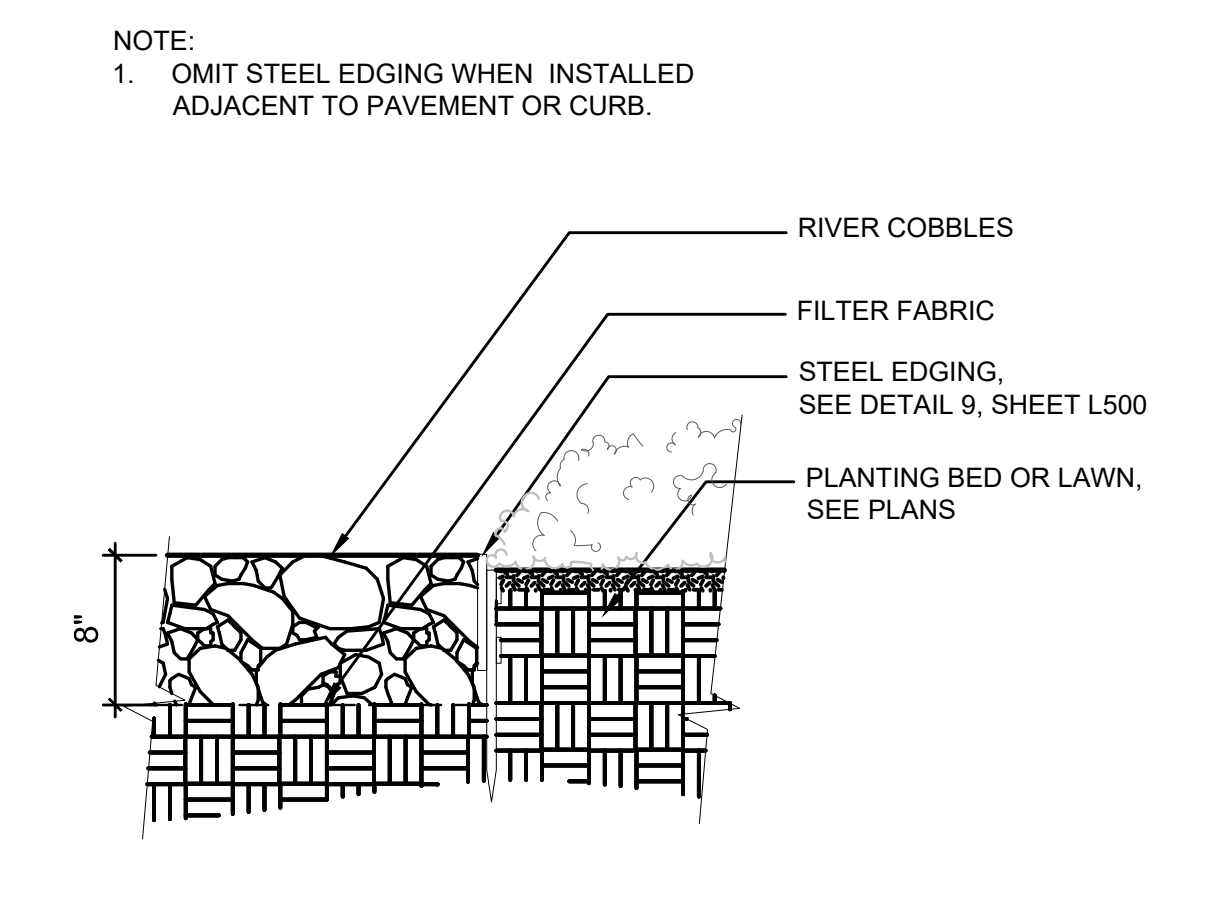
- NOTES:**
- SEE PLANTING PLANS FOR LOCATIONS.
 - INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- UB 18-2 ROOT BARRIER BY DEEP ROOT OR EQUIVALENT. HOLD 1/2" ABOVE FINISH GRADE
- ADJACENT PAVING, SEE CIVIL
- LOCATE ROOT BARRIER WITH VERTICAL RIBS FACING TREE ROOTS

8 ROOT BARRIER
1/2" = 1'-0"
P-2-FED-88



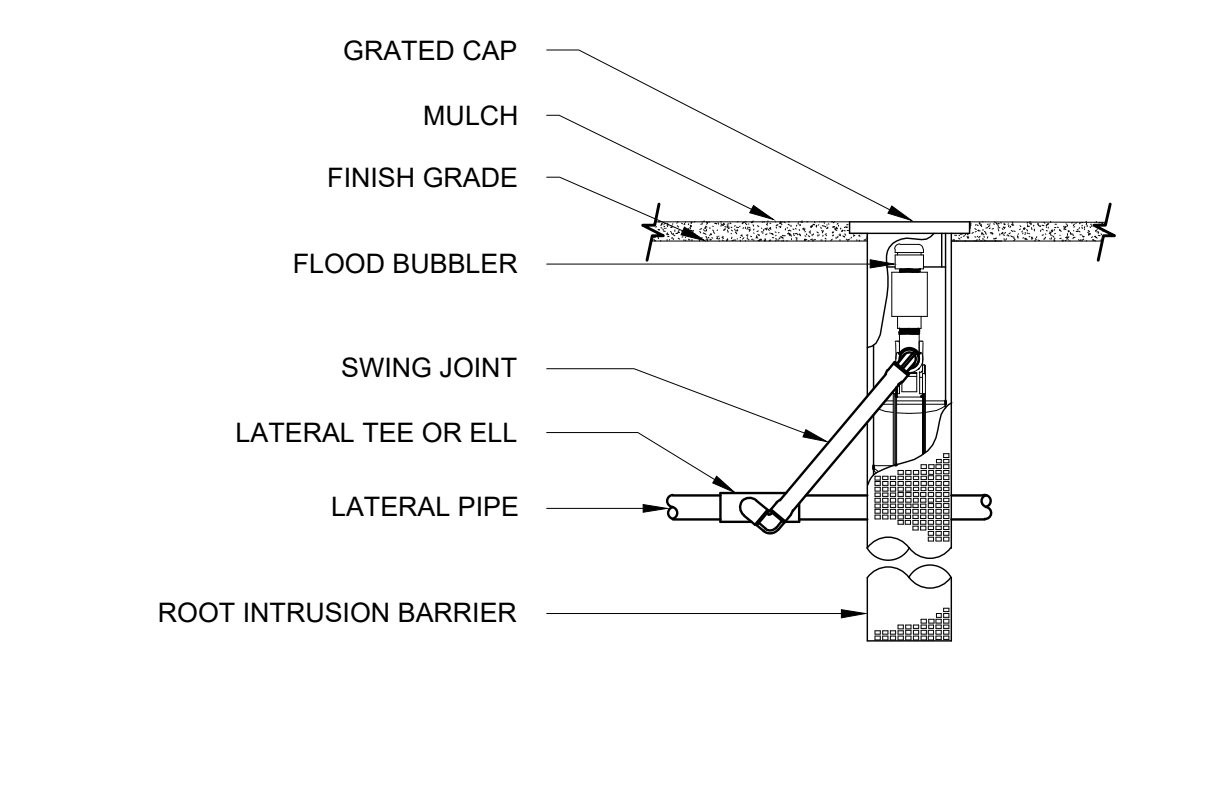
- NOTE:**
- INSTALL EDGING PER MANUFACTURER'S SPECIFICATIONS WITH TOP OF EDGING 1/4" TO 1/2" ABOVE COMPACTED FINISH GRADE (TURF SIDE).
- CONDITIONS VARY SEE PLAN
- SHRUB SIDE TOP OF SUBGRADE
- STEEL EDGING
- COMPACT SUBGRADE ON EITHER SIDE OF EDGING TO MAINTAIN STABILITY
- STAKE AT ALL CURVE RETURNS, CURVE MIDPOINTS, AND AT 30" O.C. MIN.

9 STEEL EDGING
1" = 1'-0"
P-2-FED-39



- NOTE:**
- OMIT STEEL EDGING WHEN INSTALLED ADJACENT TO PAVEMENT OR CURB.
- RIVER COBBLES
- FILTER FABRIC
- STEEL EDGING. SEE DETAIL 9, SHEET L500
- PLANTING BED OR LAWN. SEE PLANS
- 10"

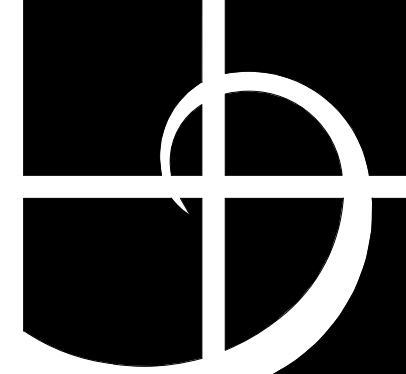
10 RIVER COBBLE
NTS
P-2-FED-38



- GRATED CAP
- MULCH
- FINISH GRADE
- FLOOD BUBBLER
- SWING JOINT
- LATERAL TEE OR ELL
- LATERAL PIPE
- ROOT INTRUSION BARRIER

11 ROOT WATERING SYSTEM
1" = 1'-0"
P-2-FED-41

DATE: March 11, 2024 FILENAME: \\ahbl.com\shared\Projects\2023\2200572\00_LAN\CAD\2200572-SH-DET.dwg PLOTTED: FILE PATH:



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5/6/2024

ELECTRICAL LEGEND, ABBREVIATIONS AND NOTES

CITY OF FEDERAL WAY SITE

FEDERAL WAY, WASHINGTON

REVISION DATE

9

DATE JOB NO.

05.06.24 023-087

BID SET

10 E001

DRAWING NO.

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DRAWING INDEX

E001	ELECTRICAL LEGEND, ABBREVIATIONS AND NOTES
E002	ELECTRICAL SCHEDULES AND NOTES
E101	ELECTRICAL SITE PLAN - SOUTH
E102	ELECTRICAL SITE PLAN - NORTH
E301	ELECTRICAL DETAILS
E401	ELECTRICAL ONE-LINE DIAGRAM
E402	ELECTRICAL SERVICE DETAILS
E403	PANEL SCHEDULES

ABBREVIATIONS

A	AMPERE	MFR	MANUFACTURER
AC	AIR CONDITIONING; ALTERNATING CURRENT, ABOVE COUNTER	MH	MANHOLE
AF	AMP FRAME	MIN	MINIMUM
AFC	AVAILABLE FAULT CURRENT	MLO	MAIN LUGS ONLY
AFF	ABOVE FINISHED FLOOR	MM	MULTIMODE
AG	ABOVE GRADE	MPOE	MAIN POINT OF ENTRY
AHJ	AUTHORITIES HAVING JURISDICTION	MPOP	MAIN POINT OF PRESENCE
AHU	AIR HANDLING UNIT	MTD	MOUNTED
AIC	AMPERE INTERRUPTING CAPACITY	MTS	MANUAL TRANSFER SWITCH
AL	ALUMINUM	MV	MEDIUM VOLTAGE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	(N)	NEW
AS	AMP SWITCH	N	NEUTRAL
AT	AMP TRIP	NAC	NOTIFICATION APPLIANCE CIRCUIT
ATM	ASYNCHRONOUS TRANSFER MODE	NEC	NATIONAL ELECTRICAL CODE
ATS	AUTOMATIC TRANSFER SWITCH	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
AV	AUDIO VISUAL	NF	NON-FUSED
AWG	AMERICAN WIRE GAUGE	NIC	NOT IN CONTRACT
		NL	NIGHT LIGHT
BAS	BUILDING AUTOMATION SYSTEM	OFC	OPTICAL FIBER CABLE
BATT	BATTERIES	OHL	OVERHEAD LINE
BL	BASIC IMPULSE INSULATION LEVEL	OL	OVERLOAD
BKBD	BACKBOARD	OS	OCCUPANCY SENSOR
BKR	BREAKER	OSP	OUTSIDE PLANT
BLDG	BUILDING		
C	CONDUIT; DEGREES CELCIUS	P	POLE
CAB	CABINET	PB	PULL-BOX
CAT	CATEGORY	PF	POWER FACTOR
CATV	COMMUNITY ANTENNA TELEVISION	PH	PHASE
CB	CIRCUIT BREAKER	PIR	PASSIVE INFRARED
CCTV	CLOSED CIRCUIT TELEVISION	PIV	POST INDICATING VALVE
CLG	CEILING	PNL	PANEL
CM	CEILING-MOUNTED	PP	PATCH
CO	CONDUIT ONLY	PT	POTENTIAL TRANSFORMER
CR	CONTROLLED RECEPTACLE	PVC	POLYVINYL CHLORIDE
CT	CURRENT TRANSFORMER	RCP	REFLECTED CEILING PLAN
CU	COPPER	REC	RECEPTACLE
		REF	REFER TO
D	DEDICATED	REV	REVISION
DDC	DIRECT DIGITAL CONTROL	RM	ROOM
DEMARC	DEMARICATION POINT	RTRC	REINFORCED THERMOSETTING RESIN CONDUIT
DISC	DISCONNECT	RU	RACK UNIT
DIST	DISTRIBUTION		
DSL	DIGITAL SUBSCRIBER LINE	SHT	SHEET
DWG	DRAWING	SLC	SIGNALING LINE CIRCUIT
(E)	EXISTING	SM	SINGLEMODE
EA	EACH	SMFC	SURFACE-MOUNTED OPTICAL FIBER CABINET
EF	EXHAUST FAN	SMR	SURFACE METAL RACEWAY
EIA	ELECTRONIC INDUSTRIES ASSOCIATION	SONET	SYNCHRONOUS OPTICAL NETWORK
ELEV	ELEVATION	SP	SERVICE PROVIDER
EM	EMERGENCY	SPD	SURGE PROTECTIVE DEVICE
EMT	ELECTRICAL METALLIC TUBING	SPEC	SPECIFICATIONS
ENCL	ENCLOSURE	SPST	SINGLE POLE SINGLE THROW
EPM	ELECTRONIC POWER METER	ST	SHUNT TRIP
EPO	EMERGENCY POWER OFF	STP	SHIELDED TWISTED PAIR
EQUIP	EQUIPMENT	SVGA	SUPER VIDEO GRAPHICS ARRAY
ETR	EXISTING TO REMAIN	SW	SWITCH
EVCS	ELECTRIC VEHICLE CHARGING STATION	SWBD	SWITCHBOARD
EW	ELECTRIC WATER COOLER	TBB	TELECOMMUNICATIONS BONDING BACKBONE
F	FUSES; DEGREES FAHRENHEIT	TEL	TELEPHONE
FA	FIRE ALARM	TELECO	TELEPHONE COMPANY
FAAP	FIRE ALARM ANNUNCIATOR PANEL	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
FACP	FIRE ALARM CONTROL PANEL	TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
FEL	FURNISHED BY OWNER	TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR	TP	TAMPERPROOF
FOIO	FURNISHED BY OWNER INSTALLED BY OWNER	TR	TELECOMMUNICATIONS ROOM
FSD	FIRE SMOKE DAMPER	TV	TELEVISION
G	GROUND	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
GB	GROUND FAULT CIRCUIT INTERRUPTER BREAKER	TYP	TYPICAL
GF	GROUND FAULT CIRCUIT INTERRUPTER	UG	UNDERGROUND
GFP	GROUND FAULT PROTECTION	UL	UNDERWRITERS LABORATORIES
GND	GROUND	UON	UNLESS OTHERWISE NOTED
GRS	GALVANIZED RIGID STEEL	UPS	UNINTERRUPTIBLE POWER SUPPLY
HC	HORIZONTAL CROSS CONNECT	USB	UNIVERSAL SERIAL BUS
HID	HIGH INTENSITY DISCHARGE	UTP	UNSHIELDED TWISTED PAIR
HP	HORSEPOWER	UV	UNIT VENTILATOR
HTR	HEATER	V	VOLTS
HZ	HERTZ	VA	VOLT AMPERES
J	JUNCTION	VFD	VARIABLE FREQUENCY DRIVE
K	KIRK KEY	W	WASTE, WATT, WIDE, WATER
KCMIL	THOUSAND CIRCULAR MILS	W/	WITH
kVA	KILOVOLT AMPERE	W/O	WITHOUT
KVAR	KILOVOLT AMPERE REACTIVE	WAN	WIDE AREA NETWORK
KW	KILOWATT	WG	WIRE GUARD
LAN	LOCAL AREA NETWORK	WH	WATT HOUR METER
LCP	LIGHTING CONTROL PANEL	WP	WEATHERPROOF
LEC	LOCAL EXCHANGE CARRIER	XFMR	TRANSFORMER
LT	LIGHT	Y	WYE
LTG	LIGHTING	Z	IMPEDANCE
M	METER		
MAN	METROPOLITAN AREA NETWORK		
MAX	MAXIMUM		
MC	MAIN CROSS CONNECT, METAL CLAD (CABLE)		
MCB	MAIN CIRCUIT BREAKER		
MCC	MOTOR CONTROL CENTER		
MDF	MAIN DISTRIBUTION FRAME		
MDP	MAIN DISTRIBUTION PANEL		

NON-STRUCTURAL ELECTRICAL COMPONENT NOTES

- THE FOLLOWING ITEMS ARE TAKEN DIRECTLY FROM THE 2018 INTERNATIONAL BUILDING CODE AND FROM THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD 7. THE CONTRACTOR SHALL REFER TO THE ABOVE FOR ADDITIONAL INFORMATION, EXCEPTIONS, AND FURTHER DESCRIPTIONS. THE CONTRACTOR SHALL ADHERE TO REQUIREMENTS AND AS SUCH, SHALL BE INCLUDED WITHIN BID. ALSO REFER TO SPECIFICATIONS.
- 2018 IBC, 1613.1. SCOPE: ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND NON-STRUCTURAL COMPONENTS THAT ARE PERMANENTLY ATTACHED TO STRUCTURES AND THEIR SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED AND CONSTRUCTED TO RESIST THE EFFECTS OF EARTHQUAKE MOTIONS IN ACCORDANCE WITH ASCE 7, EXCLUDING CHAPTER 14 AND APPENDIX 11A.
- ASCE 7 CONTRACTOR RESPONSIBILITY: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN AND SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE AUTHORITY HAVING JURISDICTION AND TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE THE FOLLOWING:
 - ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.
 - ACKNOWLEDGMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
 - PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND THE DISTRIBUTION OF THE REPORTS, AND
 - IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.
- DIVISION 26 RESPONSIBILITIES:
 - HANGERS AND SEISMIC BRACING FOR ELECTRICAL SYSTEMS SHALL BE DESIGNED AND SPECIFIED BY DIVISION 26. DIVISION 26 SHALL REFER TO THE ELECTRICAL DRAWINGS FOR LOCATIONS OF EQUIPMENT AND ELECTRICAL SYSTEMS AS STRUCTURAL DRAWINGS DO NOT SHOW THE LOCATIONS OF ELECTRICAL EQUIPMENT, RACEWAYS, AND OTHER COMPONENTS.
 - DIVISION 26 SHALL COORDINATE THE SUPPORT SYSTEMS AND DESIGN LOADS FOR HUNG RACEWAYS AND OTHER ELECTRICAL SYSTEMS (INCLUDING COMBINED MULTIPLE RACEWAY RUNS) WITH THE GENERAL CONTRACTOR AND THE STEEL AND WOOD JOIST MANUFACTURERS IN ADDITION TO OTHER TRADES THAT MAY BE IMPACTED.

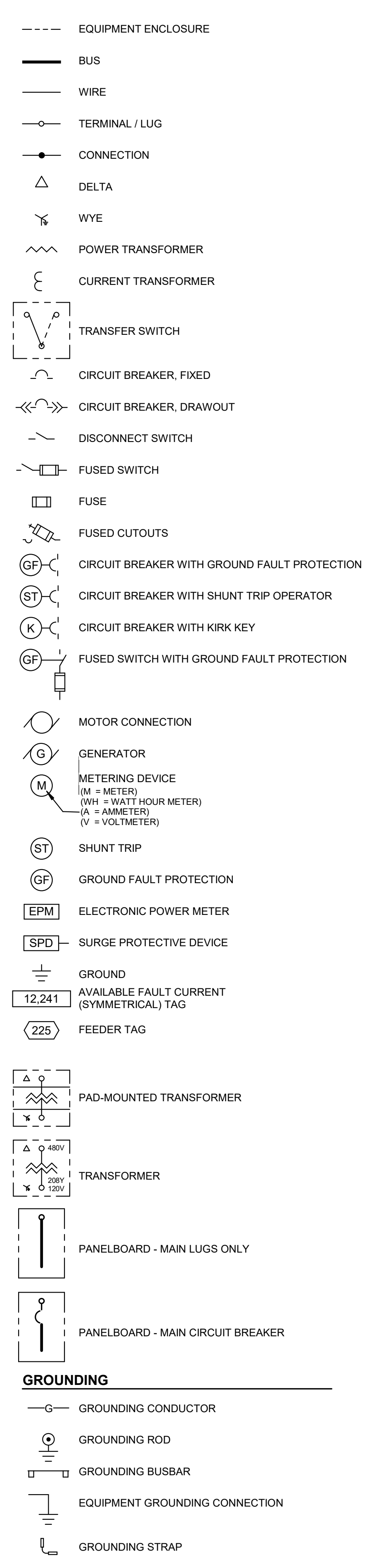
GENERAL NOTES

- PERFORM WORK IN ACCORDANCE WITH APPLICABLE NATIONAL AND STATE CODES AS AMENDED LOCALLY AND ENFORCED BY THE AHJ.
- OBTAIN AND PAY FOR PERMITS REQUIRED FOR INSTALLATION OF WORK. ARRANGE AND SCHEDULE REQUIRED INSPECTIONS.
- COORDINATE WITH UTILITY COMPANIES FURNISHING SERVICES TO PROJECT. INSTALLATION OF UTILITY SERVICES SHALL BE IN ACCORDANCE WITH UTILITY REQUIREMENTS. VERIFY APPLICABLE INSTALLATION STANDARDS AND REQUIREMENTS. PROVIDE AND SUBMIT ELECTRICAL DRAWINGS TO UTILITY FOR APPROVAL PRIOR TO ROUGH-IN AND PRIOR TO ORDERING EQUIPMENT.
- DEVICE LOCATIONS ARE APPROXIMATE. COORDINATE DEVICE LOCATIONS AND ELEVATIONS WITH APPROPRIATE DOCUMENTS INCLUDING CASEWORK SHOP DRAWINGS AND ARCHITECT'S INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
- COORDINATE ELECTRICAL WORK WITH THAT OF OTHER TRADES. REFER TO MECHANICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, AND LANDSCAPE DRAWINGS AND SPECIFICATIONS. COORDINATION SHALL OCCUR PRIOR TO FABRICATION, PURCHASE, AND INSTALLATION OF WORK.
- COORDINATE LOCATION OF LIGHT FIXTURES WITH ARCHITECTURAL AND CIVIL PLANS AND ELEVATIONS.
- DEMOLISH EXISTING SYSTEMS AS INDICATED ON PLANS OR AS REQUIRED FOR INSTALLATION OF NEW WORK. MATERIAL SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF OFF SITE UNLESS OTHERWISE DIRECTED. RETURN ITEMS TO OWNER IN EXISTING CONDITION WHEN DIRECTED BY OWNER.
- COMPLETION OF WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE PROJECT SCHEDULE. SCHEDULE INSTALLATION WITH OTHER TRADES TO ENSURE PROJECT MILESTONES ARE MET.
- DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE COMPONENTS REQUIRED FOR COMPLETE AND OPERATIONAL SYSTEMS INCLUDING RACEWAYS, CONDUCTORS, BOXES, SUPPORTS AND SIMILAR ITEMS.

ENERGY CODE NOTES

- RECORD DRAWINGS: SUBMIT TO THE BUILDING OWNER PER ENERGY CODE ENFORCED BY THE LOCAL AHJ.
- OPERATION AND MAINTENANCE MANUALS: SUBMIT TO THE BUILDING OWNER PER ENERGY CODE ENFORCED BY THE LOCAL AHJ.
- THIS BUILDING AND ITS ENERGY SYSTEMS HAVE BEEN DESIGNED TO COMPLY WITH ENERGY CODE ENFORCED BY THE LOCAL AHJ. CONTRACTOR IS RESPONSIBLE FOR CORRECT INSTALLATION OF ENERGY CONSERVATION MEASURES.
- LIGHTING CONTROL SYSTEMS COMMISSIONING AND COMPLETION REQUIREMENTS: TEST SYSTEMS TO ENSURE THAT BUILDING SYSTEMS HAVE BEEN INSTALLED AND FUNCTION PROPERLY AND EFFICIENTLY, AND CAN BE MAINTAINED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND OPERATIONAL REQUIREMENTS PER ENERGY CODE ENFORCED BY THE AHJ. REFER TO SPECIFICATIONS FOR ADDITIONAL COMMISSIONING REQUIREMENTS.

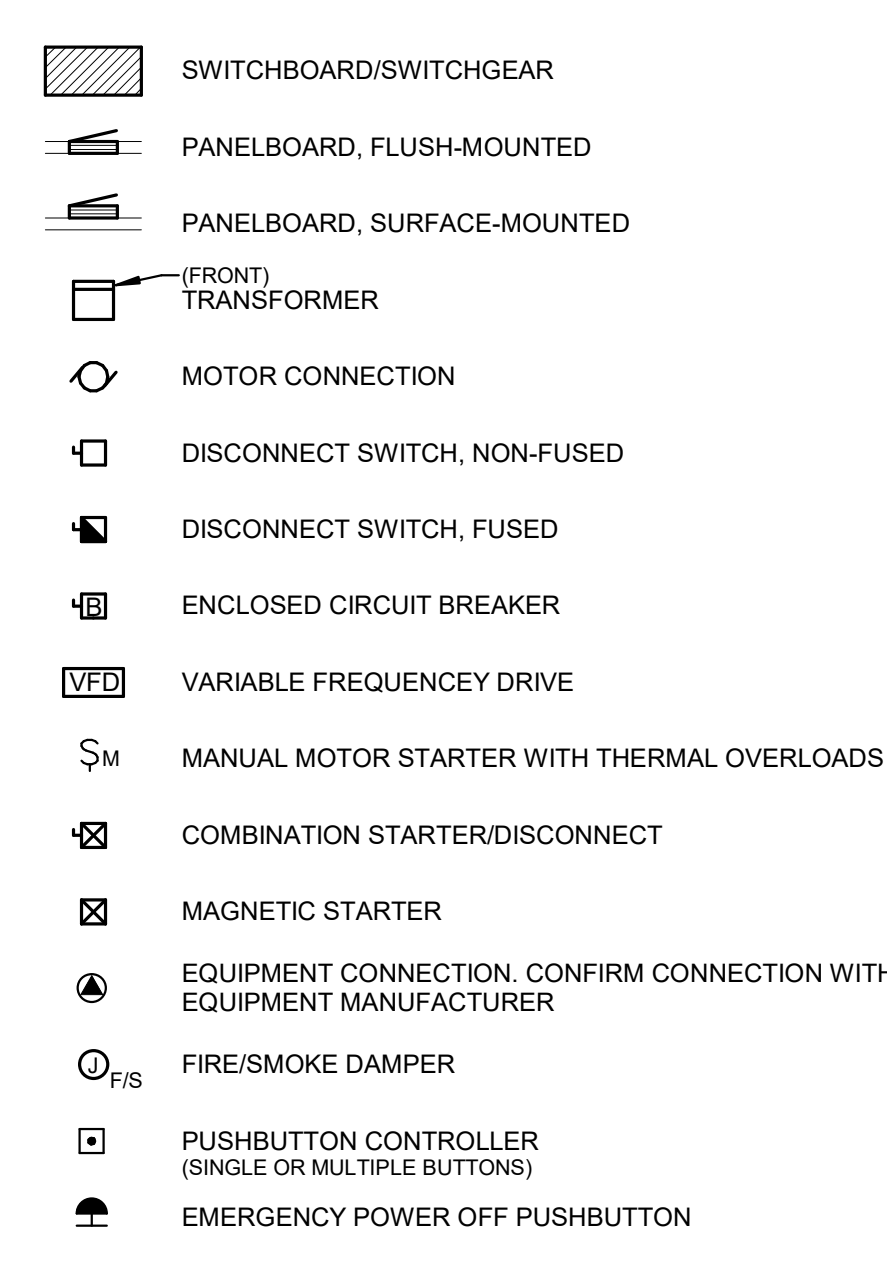
ONE-LINE DIAGRAM



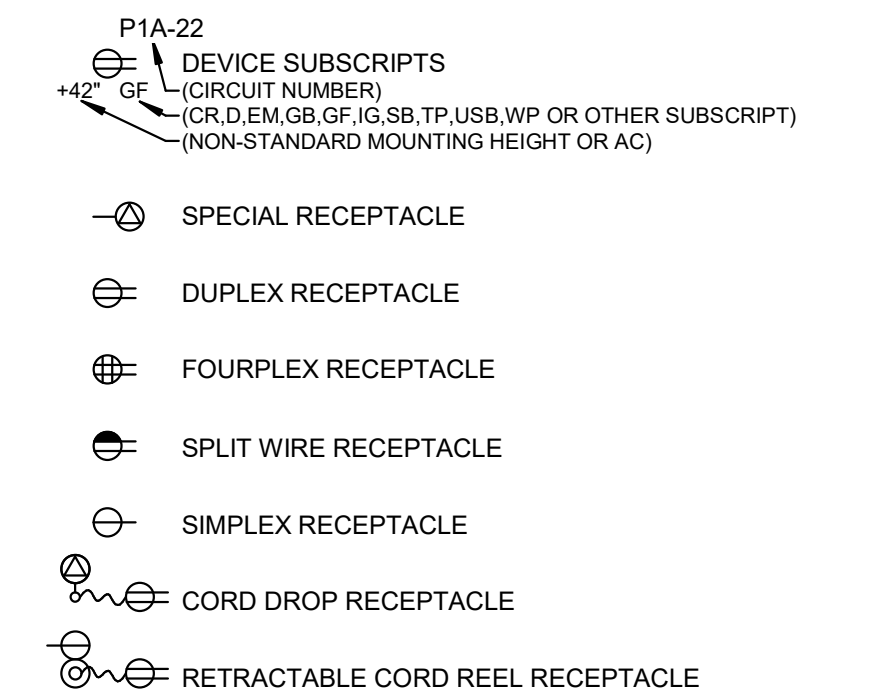
GROUNDING



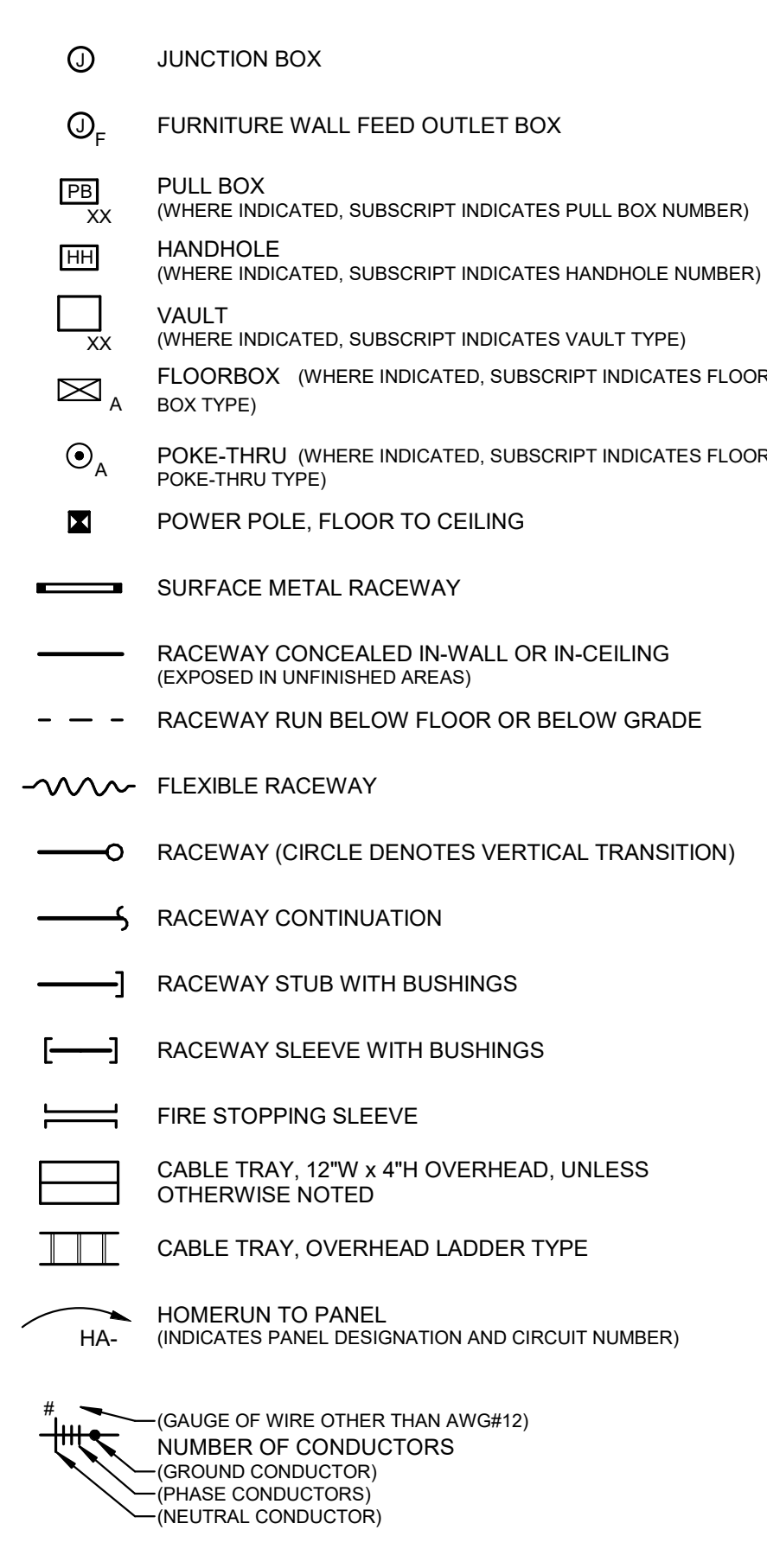
POWER



RECEPTACLES

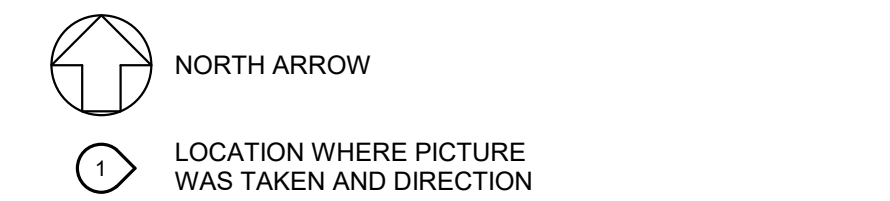
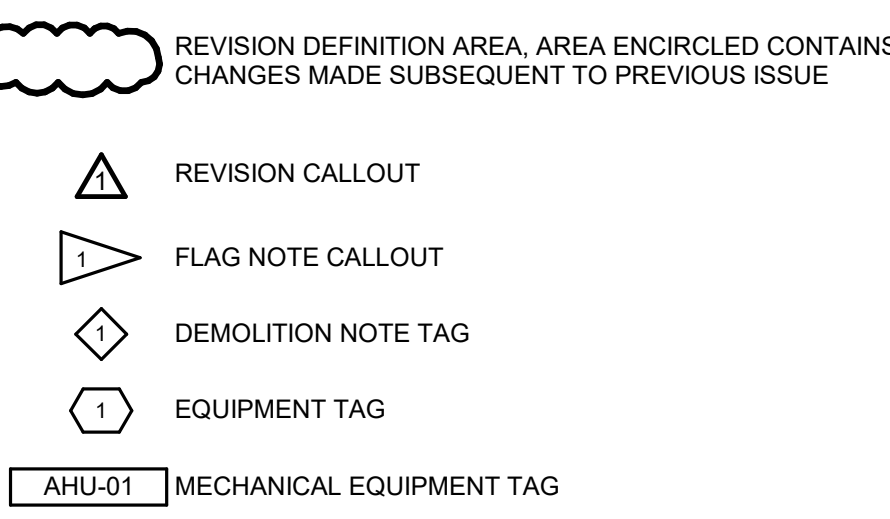
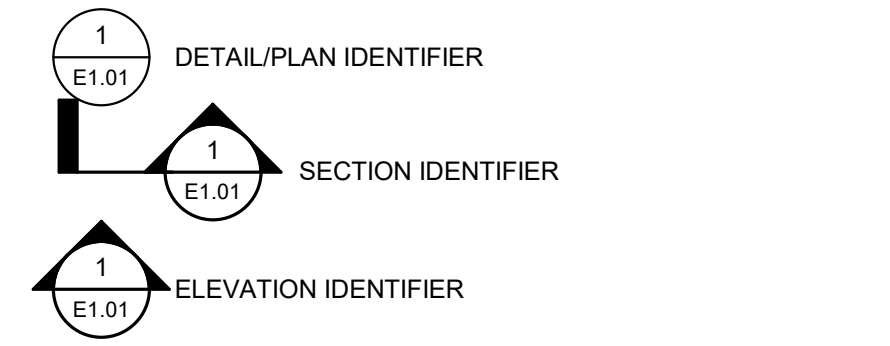
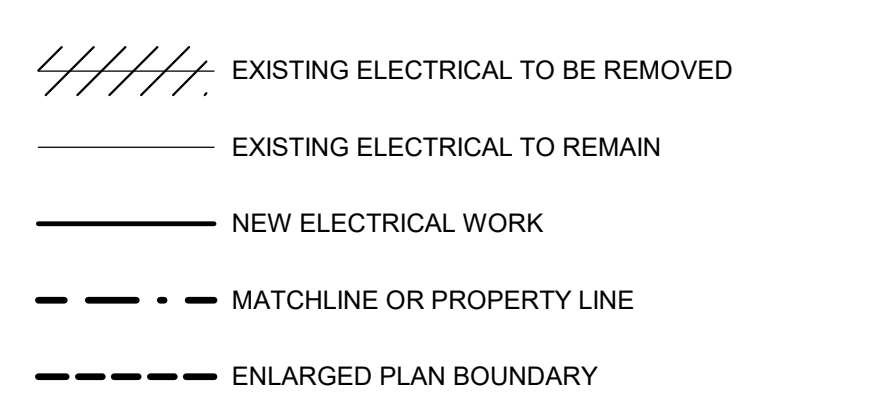


RACEWAY AND BOXES

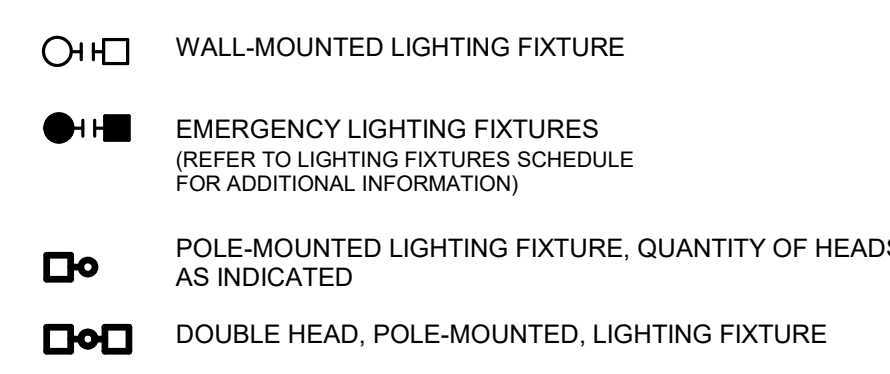


NOT ALL SYMBOLS MAY APPEAR ON THE DRAWINGS

GENERAL



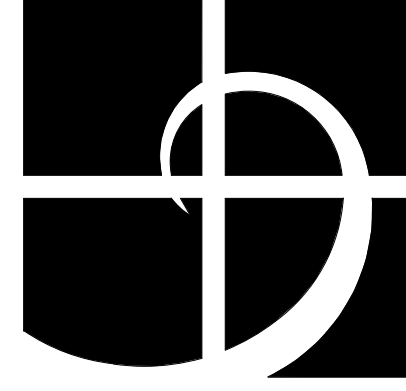
LIGHTING



PROJECT: 2023-087 - CITY OF FEDERAL WAY
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SITE PLAN FEEDER/BRANCH CIRCUIT SCHEDULE													
FEEDER	FROM	TO	LOAD		CIRCUIT	CONDUIT	FEEDER/BRANCH CIRCUIT SIZE	FEEDER/CIRCUIT LENGTH	VOLTAGE	STARTING VOLTAGE	ENDING VOLTAGE	VOLTAGE DROP	NOTE
			Kw	A									
P1	UTILITY TRANSFORMER	PANEL MSB		3000	INCOMING SERVICE	-	NOTE #1	NOTE #1	32 FT	480V/3PH	480V	479.4V	0.13%
P2	PANEL MSB	ATS#1/PANEL MDPA	600	6000	BUILDING A STANDBY	MSB #1	NOTE #1	NOTE #1	120 FT	480V/3PH	480V	477.3V	0.57%
P3	PANEL MSB	PANEL MDPB	1600		BUILDING B	MSB #2	NOTE #1	NOTE #1	440 FT	480V/3PH	480V	471.2V	1.84%
P4	PANEL MSB	TRANSFORMER T-EV	350		EV SERVICE PANEL	MSB #3	NOTE #1	NOTE #1	105 FT	480V/3PH	480V	478.2V	0.38%
P5	PANEL MSB	ATS#2/EMA	100		EMERGENCY POWER	MSB #4	NOTE #1	NOTE #1	120 FT	480V/3PH	480V	477.9V	0.44%
P6	PANEL MSB	FIREPUMP	400		FIRE PUMP	MSB #5	NOTE #1	NOTE #1	580 FT	480V/3PH	480V	469.3V	2.23%
P7	PANEL MDPB	TRANSFORMER T-C	70		STRUCTURE C POWER	MDPB#7	NOTE #1	NOTE #1	110 FT	480V/3PH	480V	475.2V	0.99%
P8	PANEL MDPB	TRANSFORMER T-D	25		STRUCTURE D POWER	MDPB#8	NOTE #1	NOTE #1	200 FT	480V/3PH	480V	471.3V	1.80%
P9	PANEL MDPB	PANEL HE	225		STRUCTURE E POWER	MDPB#9	NOTE #1	NOTE #1	450 FT	480V/3PH	480V	472.3V	1.60%
P10	PANEL E	SITE GATE	5.2		SITE EQUIPMENT	E-5.7	1" C	2#12 & 1#12 GND	75 FT	208V/1PH	208V	206.5V	0.71%
P11	PANEL RA1	SITE GATE	5.2		SITE EQUIPMENT	RA1-46.48	1" C	2#12 & 1#12 GND	130 FT	208V/1PH	208V	205.4V	1.23%
P12	PANEL MDPA	TRANSFORMER T-FS	70		STRUCTURE H POWER	MDPA#4	NOTE #1	NOTE #1	630 FT	480V/3PH	480V	469.2V	2.24%
P13	PANEL FS	FUEL DISPENSING TANK	24		SITE EQUIPMENT	FS-1.3.5	1" C	2#6 & 1#6 GND	150 FT	208V/3PH	208V	204.5V	1.70%
P14	PANEL FS	FUEL DISPENSING TANK	24		SITE EQUIPMENT	FS-7.9.11	1" C	2#6 & 1#6 GND	160 FT	208V/3PH	208V	204.2V	1.82%
P15	PANEL FS	FUEL STORAGE TANK	24		STRUCTURE H EQUIPMENT	FS-13.15	1-1/4" C	2#4 & 1#4 GND	280 FT	208V/1PH	208V	203.8V	2.00%
P16	PANEL FS	CARDLOCK SYSTEM	16		STRUCTURE H EQUIPMENT	FS-2	1-1/2" C	2#4 & 1#4 GND	280 FT	120V/1PH	120V	117.2V	2.31%
P17	PANEL FS	DEF SYSTEM PUMP	16		STRUCTURE H EQUIPMENT	FS-4	1-1/4" C	2#4 & 1#4 GND	280 FT	120V/1PH	120V	117.2V	2.31%
L5	PANEL FS	STRUCTURE H LIGHTING	3		STRUCTURE H LIGHTING	FS-6	1" C	2#10 & 1#10 GND	280 FT	120V/1PH	120V	117.9V	1.74%
L6	PANEL FS	STRUCTURE G LIGHTING	2		STRUCTURE G LIGHTING	FS-8	1" C	2#10 & 1#10 GND	280 FT	120V/1PH	120V	118.6V	1.16%
P18	PANEL MHA	IRRIGATION BOOSTER PUMP	7.6		SITE EQUIPMENT	MHA-31.33.35	1" C	3#12 & 1#12 GND	180 FT	480V/3PH	480V	474.6V	1.13%
P19	PANEL RA1	IRRIGATION RPBA ENCLOSURE	16		SITE EQUIPMENT	RA-9	1" C	2#6 & 1#6 GND	180 FT	120V/1PH	120V	117.2V	2.36%
P20	PANEL RA1	IRRIGATION CONTROLLER	16		SITE EQUIPMENT	RA-7	1" C	2#6 & 1#6 GND	180 FT	120V/1PH	120V	117.2V	2.36%
G1	GENERATOR	ATS#1/PANEL MDPA	600		STANDBY POWER	-	NOTE #1	NOTE #1	200 FT	480V/3PH	480V	475.4V	0.95%
G2	GENERATOR	ATS#2/PANEL EMA	100		EMERGENCY POWER	-	NOTE #1	NOTE #1	200 FT	480V/3PH	480V	473.8V	1.28%
G3	GENERATOR	PANEL MLA	100		GENERATOR LOADS	MLA-2.4.6	NOTE #1	NOTE #1	200 FT	208V/3PH	208V	201.8V	2.96%
G4	GENERATOR	ATS#1 & ATS#2	-	-	CONTROLS	-	(2) 1" C	-	-	-	-	-	-
G5	GENERATOR	REMOTE ANNUNCIATOR	-	-	CONTROLS	-	1" C	-	-	-	-	-	-
EL1	PANEL EMB	STRUCTURE C	0.8		EMERGENCY LIGHTING	EMB-1	1" C	2#12 & 1#12 GND	100 FT	277V/1PH	277V	276.8V	0.07%
EL2	PANEL EMB	STRUCTURE D	0.2		EMERGENCY LIGHTING	EMB-1	1" C	2#12 & 1#12 GND	195 FT	277V/1PH	277V	276.6V	0.14%
FA1	BUILDING A FACP	BUILDING B FACP	-	-	FA SYSTEM	-	1" C	-	-	-	-	-	#4
FA2	BUILDING B FACP	STRUCTURE C NAC	-	-	FA SYSTEM	-	1" C	-	-	-	-	-	#4
FA3	BUILDING B FACP	STRUCTURE D NAC	-	-	FA SYSTEM	-	1" C	-	-	-	-	-	#4
L1	PANEL LA	SITE LIGHTING	7		LIGHTING	LA-2	1" C	2#6 & 1#6 GND	155 FT	277V/1PH	277V	275.3V	0.61%
L1.1	-	SITE LIGHTING	5.6		LIGHTING		1" C	2#6 & 1#6 GND	120 FT	277V/1PH	275.3V	274.2V	0.41%
L1.2	-	SITE LIGHTING	4.2		LIGHTING		1" C	2#6 & 1#6 GND	135 FT	277V/1PH	274.2V	273.4V	0.30%
L1.3	-	SITE LIGHTING	2.8		LIGHTING		1" C	2#6 & 1#6 GND	125 FT	277V/1PH	273.4V	272.8V	0.21%
L1.4	-	SITE LIGHTING	1.4		LIGHTING		1" C	2#6 & 1#6 GND	235 FT	277V/1PH	272.8V	272.3V	0.15%
					CKT LA-2 TOTAL				770 FT	277V/1PH	277V	272.3V	1.68%
L2	PANEL LA	SITE LIGHTING	10.4		LIGHTING	LA-4	1" C	2#6 & 1#6 GND	60 FT	277V/1PH	277V	276.4V	0.21%
L2.1	-	SITE LIGHTING	10.1		LIGHTING		1" C	2#6 & 1#6 GND	55 FT	277V/1PH	276.4V	275.6V	0.20%
L2.2	-	SITE LIGHTING	9.8		LIGHTING		1" C	2#6 & 1#6 GND	55 FT	277V/1PH	275.6V	275V	0.20%
L2.3	-	SITE LIGHTING	8.4		LIGHTING		1" C	2#6 & 1#6 GND	105 FT	277V/1PH	275V	274V	0.37%
L2.4	-	SITE LIGHTING	7		LIGHTING		1" C	2#6 & 1#6 GND	90 FT	277V/1PH	274V	273.4V	0.22%
L2.5	-	SITE LIGHTING	5.6		LIGHTING		1" C	2#6 & 1#6 GND	95 FT	277V/1PH	273.4V	272.9V	0.20%
L2.6	-	SITE LIGHTING	4.2		LIGHTING		1" C	2#6 & 1#6 GND	100 FT	277V/1PH	272.9V	272.5V	0.14%
L2.7	-	SITE LIGHTING	2.8		LIGHTING		1" C	2#6 & 1#6 GND	90 FT	277V/1PH	272.5V	272.1V	0.15%
L2.8	-	SITE LIGHTING	1.4		LIGHTING		1" C	2#6 & 1#6 GND	110 FT	277V/1PH	272.1V	271.8V	0.12%
					CKT LA-4 TOTAL				760 FT	277V/1PH	277V	271.8V	1.81%
L3	PANEL LA	SITE LIGHTING	11.2		LIGHTING	LA-6	1-1/4" C	2#4 & 1#4 GND	300 FT	277V/1PH	277V	275V	0.74%
L3.1	-	SITE LIGHTING	8.4		LIGHTING		1-1/4" C	2#6 & 1#6 GND	145 FT	277V/1PH	275V	273.7V	0.46%
L3.2	-	SITE LIGHTING	5.6		LIGHTING		1-1/4" C	2#6 & 1#6 GND	110 FT	277V/1PH	273.7V	273V	0.23%
L3.3	-	SITE LIGHTING	2.8		LIGHTING		1-1/4" C	2#6 & 1#6 GND	110 FT	277V/1PH	273V	272.5V	0.19%
					CKT LA-6 TOTAL				665 FT	277V/1PH	277V	272.5V	1.62%
L4	PANEL LA	SITE LIGHTING	9.8		LIGHTING	LA-8	1-1/4" C	2#4 & 1#4 GND	665 FT	277V/1PH	277V	272.9V	1.48%
L4.1	-	SITE LIGHTING	4.2		LIGHTING		1-1/4" C	2#4 & 1#4 GND	170 FT	277V/1PH	272.9V	272.5V	0.15%
L4.2	-	SITE LIGHTING	2.8		LIGHTING		1-1/4" C	2#4 & 1#4 GND	210 FT	277V/1PH	272.5V	272.1V	0.14%
L4.3	-	SITE LIGHTING	1.4		LIGHTING		1" C	2#6 & 1#6 GND	145 FT	277V/1PH	272.1V	271.7V	0.16%
L4.4	-	SITE LIGHTING	2.8		LIGHTING		1" C	2#6 & 1#6 GND	135 FT	277V/1PH	272.9V	272.5V	0.15%
					CKT LA-8 TOTAL				1325 FT	277V/1PH	277V	271.7V	1.93%
L7	PANEL LA	MONUMENT SIGN LIGHTING	0.5		LIGHTING	LA-7	3/4" C	2#12 & 1#12 GND	170 FT	277V/1PH	277V	276.3V	0.24%
R1	PANEL E	SITE RECEPTACLES	4.5		RECEPTACLE	E-6	1" C	2#6 & 1#6 GND	60 FT	120V/1PH	120V	119.5V	0.39%
R1.1	-	SITE RECEPTACLES	3		RECEPTACLE		1" C	2#6 & 1#6 GND	130 FT	120V/1PH	119.5V	118.9V	0.51%
R1.2	-	SITE RECEPTACLES	1.5		RECEPTACLE		1" C	2#6 & 1#6 GND	210 FT	120V/1PH	118.9V	118.2V	0.55%
									400 FT	120V/1PH	120V	118.2V	1.45%
R2	PANEL RB1	SITE RECEPTACLES	4.5		RECEPTACLE	RB1-82	1" C	2#6 & 1#6 GND	200 FT	120V/1PH	120V	118.4V	1.30%
R2.1	-	SITE RECEPTACLES	3		RECEPTACLE		1" C	2#6 & 1#6 GND	110 FT	120V/1PH	118.4V	117.9V	0.43%
R2.2	-	SITE RECEPTACLES	1.5		RECEPTACLE		1" C	2#6 & 1#6 GND	125 FT	120V/1PH	117.9V	117.5V	0.33%
									435 FT	120V/1PH	120V	117.5V	2.06%
R3	PANEL RB1	SITE RECEPTACLES	4.5		RECEPTACLE	RB1-84	1" C	2#6 & 1#6 GND	190 FT	120V/1PH	120V	118.5V	1.24%
R3.1	-	SITE RECEPTACLES	3		RECEPTACLE		1" C	2#6 & 1#6 GND	110 FT	120V/1PH	118.4V	118V	0.43%
R3.2	-	SITE RECEPTACLES	1.5		RECEPTACLE		1" C	2#6 & 1#6 GND	135 FT	120V/1PH	117.9V	117.6V	0.35%
									435 FT	120V/1PH	120V	117.6V	2.02%
R4	PANEL RB1	SITE RECEPTACLES	4.5		RECEPTACLE	RB1-80	1" C	2#6 & 1#6 GND	120 FT	120V/1PH	120V	119V	0.78%
R4.1	-	SITE RECEPTACLES	3		RECEPTACLE		1" C	2#6 & 1#6 GND	220 FT	120V/1PH	119V	118V	0.86%
R4.2	-	SITE RECEPTACLES	1.5		RECEPTACLE		1" C	2#6 & 1#6 GND	115 FT	120V/1PH	118V	117V	0.30%
									455 FT	120V/1PH	120V	117.7V	1.94%
R5	PANEL RA1	SITE RECEPTACLES	4.5		RECEPTACLE	RA1-38	1" C	2#6 & 1#6 GND	210 FT	120V/1PH	120V	118.4V	1.37%
R5.1	-	SITE RECEPTACLES	3		RECEPTACLE		1" C	2#6 & 1#6 GND	100 FT	120V/1PH	118.4V	117.9V	0.39%
R5.2	-	SITE RECEPTACLES	1.5		RECEPTACLE		1" C	2#6 & 1#6 GND	85 FT	120V/1PH	117.9V	117.6V	0.22%
									395 FT	120V/1PH	120V	117.6V	1.98%
R6	PANEL RA1	SITE RECEPTACLES	6		RECEPTACLE	RA1-40	1" C	2#6 & 1#6 GND	120 FT	120V/1PH	120V	118.9V	0.94%
R6.1	-	SITE RECEPTACLES	4.5		RECEPTACLE		1" C	2#6 & 1#6 GND	105 FT	120V/1PH	118.9V	118.1V	0.68%
R6.2	-	SITE RECEPTACLES	3		RECEPTACLE		1" C	2#10 & 1#10 GND	80 FT	120V/1PH	118.1V	117.7V	0.31%
R6.3	-	SITE RECEPTACLES	1.5		RECEPTACLE		1" C	2#10 & 1#10 GND	90 FT	120V/1PH	117.7V	117.3V	0.37%
									395 FT	120V/1PH	120V	117.3V	2.30%
R6	PANEL RA1	SITE RECEPTACLES	3		RECEPTACLE	RA1-42	1" C	2#10 & 1#10 GND	135 FT	120V/1PH	120V		



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5/6/2024

ELECTRICAL
SITE PLAN -
NORTH

CITY OF FEDERAL
WAY
SITE

FEDERAL WAY, WASHINGTON

REVISION DATE

DATE JOB NO.

05.06.24 023-087

BID SET

E102

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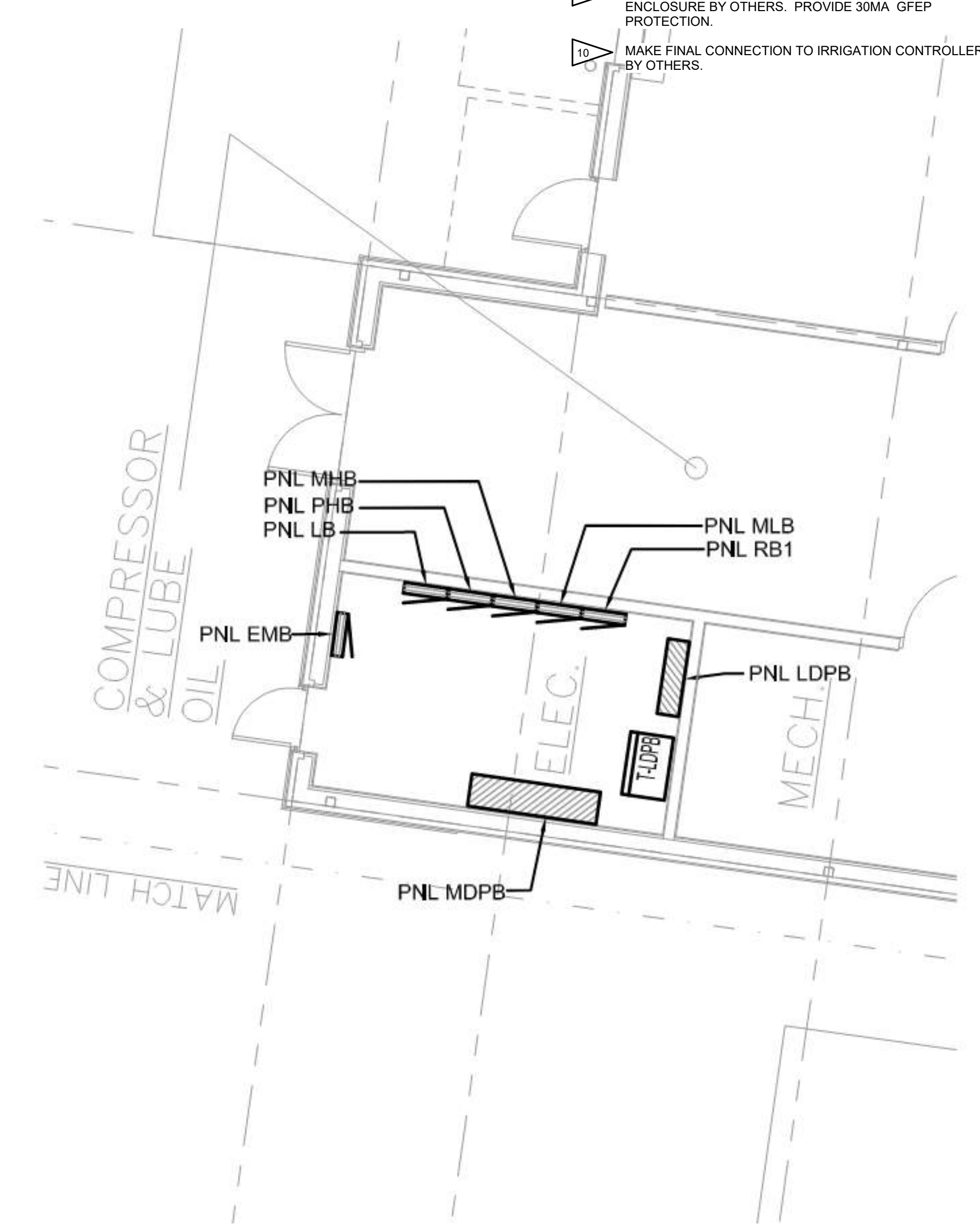
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SHEET NOTES

- REFER TO CIVIL, LANDSCAPE, AND OTHER DRAWINGS FOR MORE INFORMATION.
- COORDINATE PLACEMENT OF SITE LIGHTING, VAULTS AND RACEWAY WITH CIVIL AND LANDSCAPE CONTRACTORS. CONFLICTS SHALL BE COMMUNICATED TO THE ARCHITECT FOR RESOLUTION PRIOR TO COMMENCEMENT OF SITE WORK.
- COORDINATE ELECTRICAL UTILITY SERVICE WITH POWER COMPANY (PSE) PRIOR TO COMMENCING WORK. INSTALLATION SHALL COMPLY WITH ALL POWER COMPANY'S ELECTRICAL INSTALLATION REQUIREMENTS.
- REFER TO BRANCH CIRCUIT/FEEDER SCHEDULE ON SHEET E002 AND ONE-LINE DIAGRAM ON SHEET E401 FOR CONDUIT AND CONDUCTOR SIZING.
- RIGID CONDUIT INSTALLED BELOW SLAB, IN CONCRETE SLABS OR WALLS, OR IN CONTACT WITH EARTH SHALL BE MINIMUM 3/4" GALVANIZED STEEL OR PVC. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, WHERE BELOW GRADE OR SLAB, CHANGE TO RIGID STEEL OR EMT AT MINIMUM 2" BELOW FINISH FLOOR, ELL TO ABOVE FINISH FLOOR.
- PROVIDE A WATER-TIGHT SEAL FOR EACH UNDERGROUND RACEWAY ENTERING THE ELECTRICAL ROOM AFTER CONDUCTORS HAVE BEEN INSTALLED. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- INSTALL UNDERGROUND CONDUIT PER TRENCHING DETAIL #E301.
- PROVIDE CONCRETE BASE FOR SITE LIGHTING POLES. REFER TO DETAIL #S/E301 FOR ADDITIONAL INFORMATION.

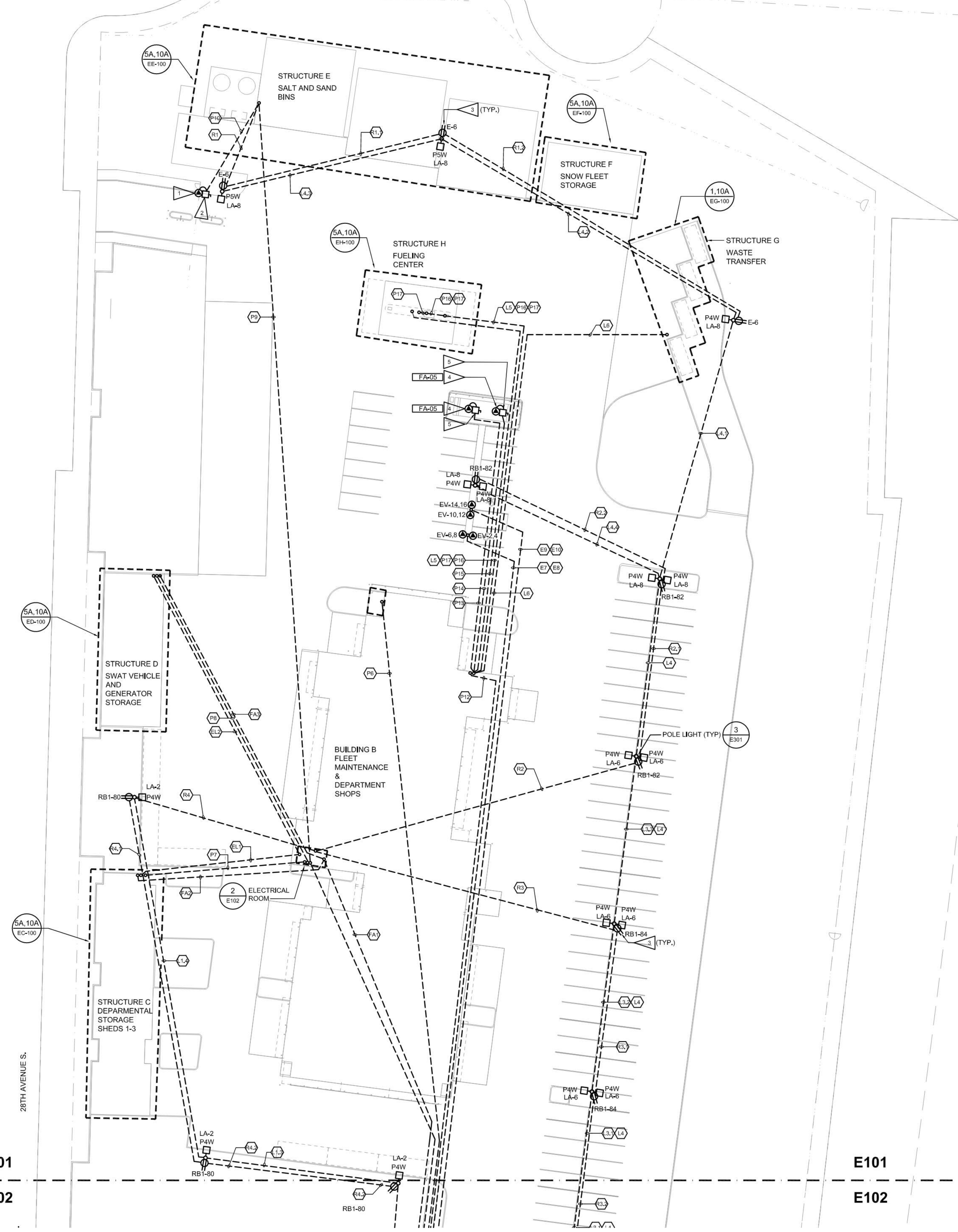
FLAG NOTES

- DOOR OPERATOR BY OTHERS. 208V/1PH/ 5.2A. MAKE FINAL CONNECTION. COORDINATE ALL REQUIREMENTS WITH DOOR SUPPLIER REFER TO ARCHITECTURAL DRAWINGS FOR DOOR OPERATOR DETAILS.
- PROVIDE DISCONNECT SWITCH FOR DOOR OPERATOR. MOUNT DISCONNECT TO THE CONCRETE WALL. COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
- PROVIDE GFCI RECEPTACLE WITH IN-USE WEATHERPROOF COVERPLATE. INSTALL RECEPTACLE RECESSED IN THE COVER OF CURVED LID BOX.
- MAKE FINAL CONNECTION TO FUEL DISPENSING PUMP. 24A, 208V/3PH. REFER EQUIPMENT SCHEDULE ON SHEET E8004 IN THE BUILDING B VOLUME OF THE PROJECT.
- PROVIDE NEMA 3R 30AS/3PNF DISCONNECT.
- PROVIDE DRAINAGE AWAY FROM LIGHT FIXTURE JUNCTION BOX. FIXTURE STEM AND SWIVEL MUST NOT CONTACT SOIL OR STANDING WATER.
- PROVIDE WATER DRAINAGE AWAY FROM LIGHT FIXTURE
- MAKE FINAL CONNECTION TO IRRIGATION BOOSTER PUMP BY OTHERS.
- RECEPTACLE FOR HEAT TRACE. MOUNT IN RPBA ENCLOSURE BY OTHERS. PROVIDE 30MA GFCP PROTECTION.
- MAKE FINAL CONNECTION TO IRRIGATION CONTROLLER BY OTHERS.



ENLARGED BUILDING B EL ROOM

1" = 30'-0"

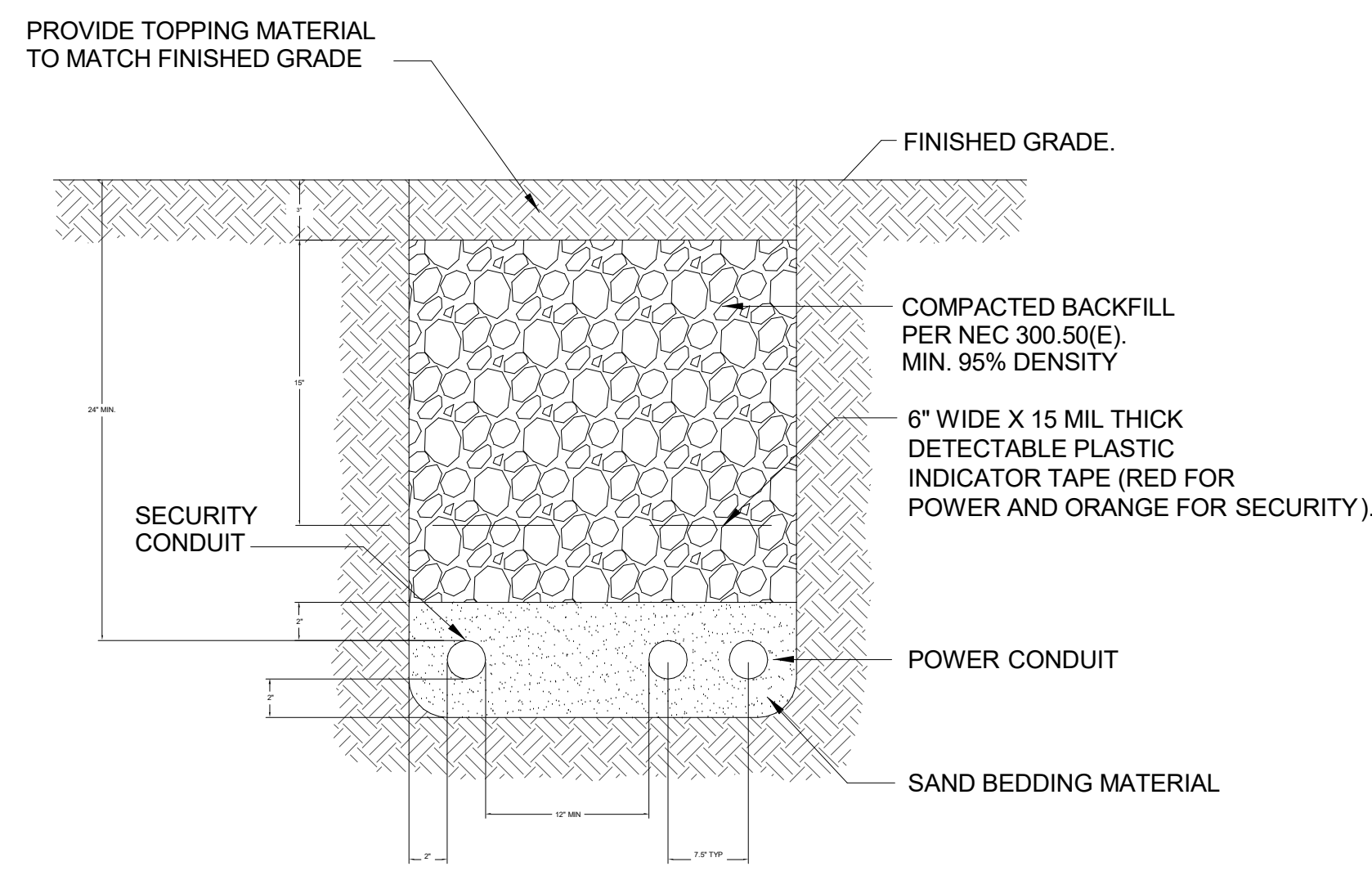


ELECTRICAL SITE PLAN - NORTH

1" = 60'-0"

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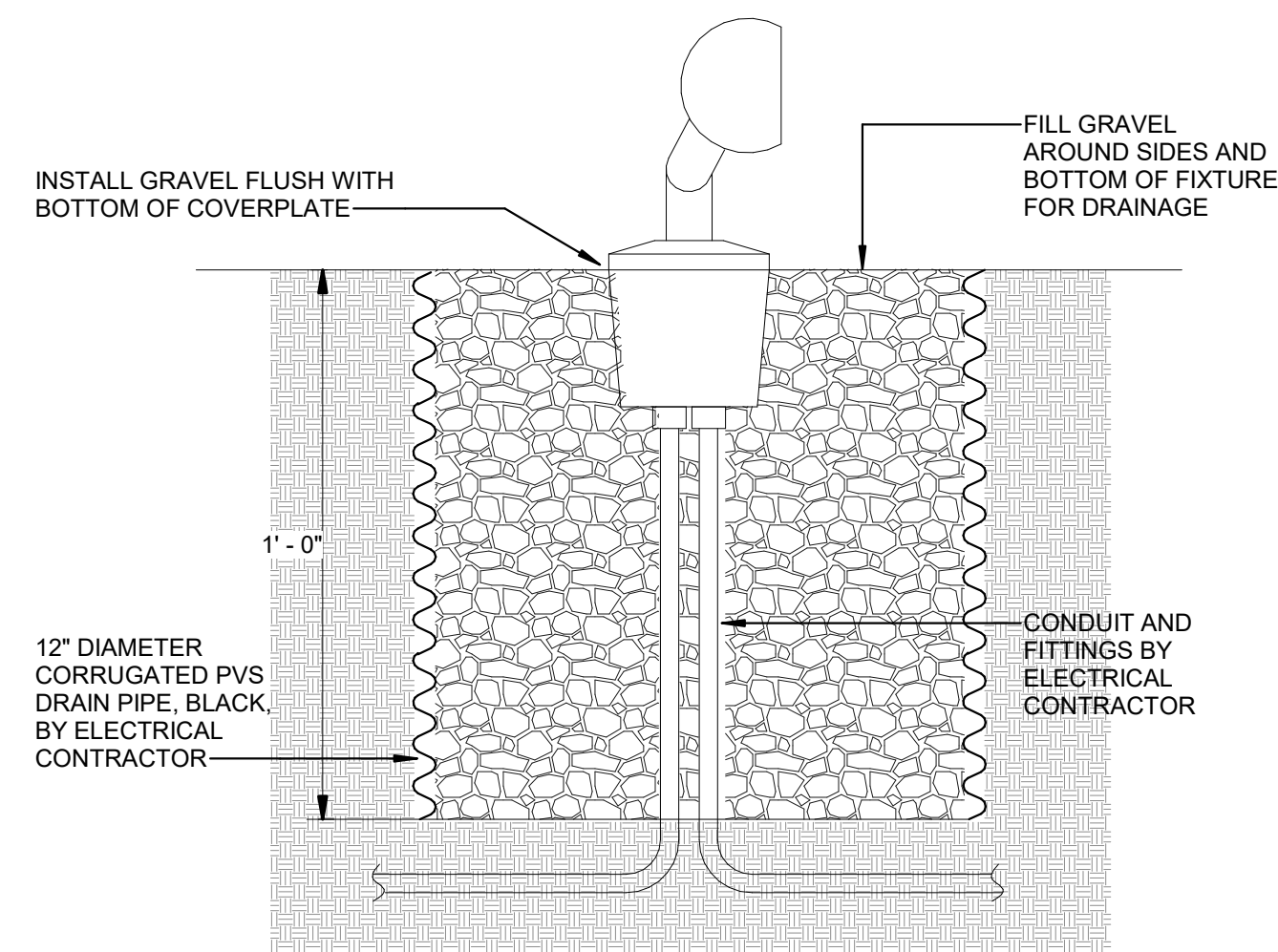
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DETAIL NOTES:

1. SEE PLANS FOR EXACT QUANTITY AND SIZES OF CONDUIT. WHERE ADDITIONAL CONDUIT IS REQUIRED INCREASE OVERALL TRENCH WIDTH IN ACCORDANCE WITH THE TYPICAL DIMENSIONS AND CONDUIT SPACING SHOWN HERE.

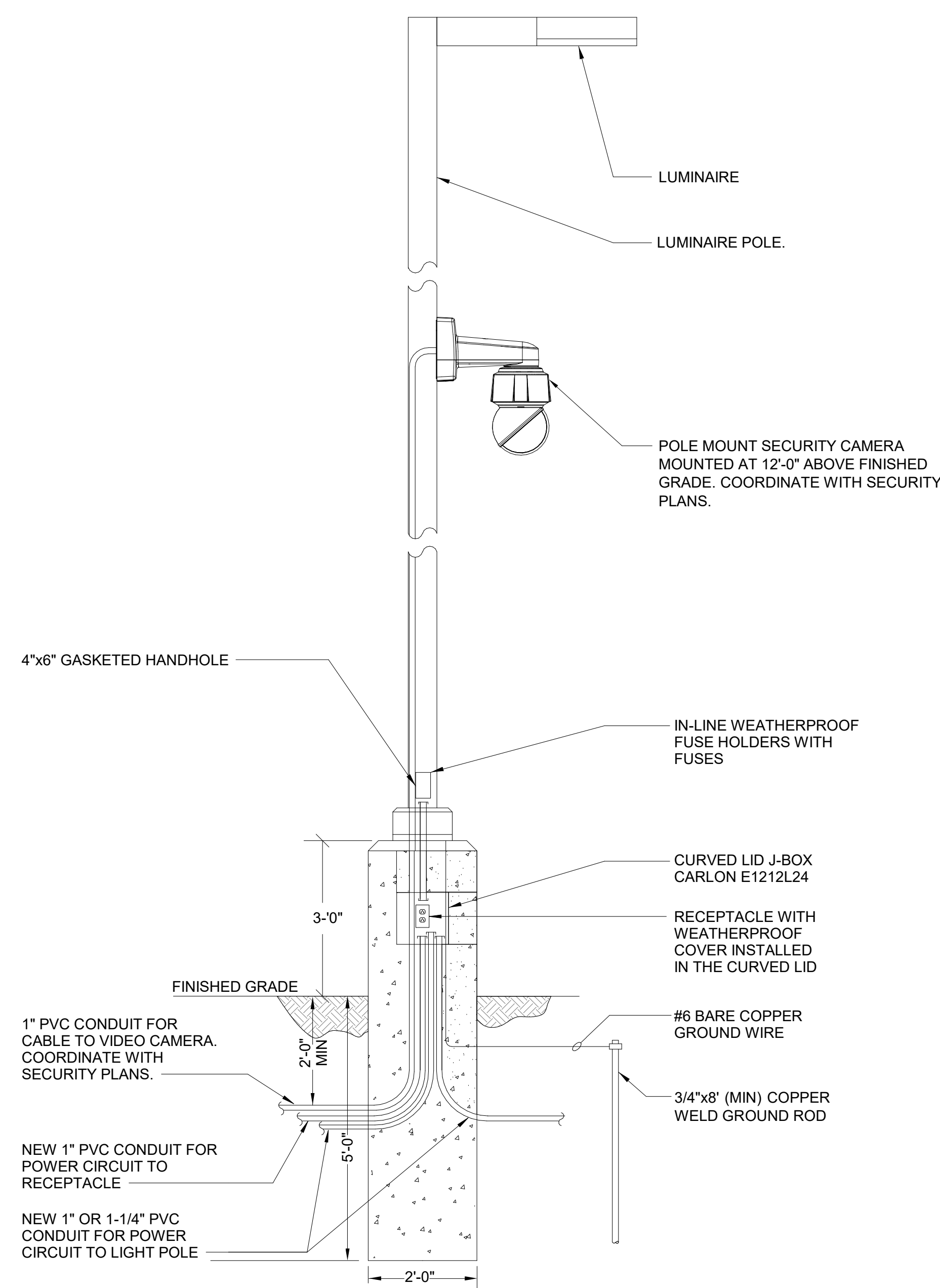
CONDUIT TRENCH DETAIL
1" = 30'-0"



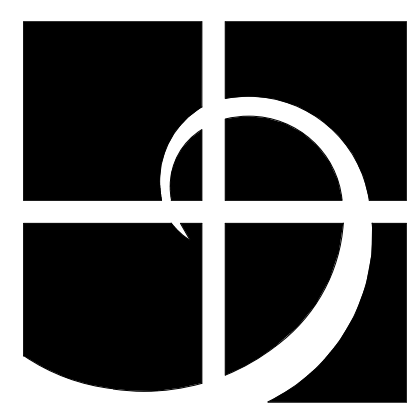
INSTALLATION NOTES:

1. COAT CONDUIT FITTING THREADS WITH SEALANT AND CONNECT CONDUIT.
2. SEAL CONDUIT ENTRIES WITH AN INDUSTRIAL GRADE RTV SEALANT.
3. COAT FIXTURE MOUNTING THREADS WITH RTV SEALANT. INSTALL FIXTURE ONTO COVER PER FIXTURE INSTRUCTIONS, TIGHTEN LOCKING SCREW. CLEAN GASKET AND GASKET SURFACE. COAT COVER SCREW THREADS WITH SILICONE RTV SEALANT AND INSTALL COVER.
4. CLEAN GASKET AND GASKET SURFACE. COAT COVER SCREW THREADS WITH SILICONE RTV SEALANT AND INSTALL COVER.

LANDSCAPE FIXTURE INSTALLATION DETAIL
3" = 1'-0"



POLE LIGHT FIXTURE DETAIL
1" = 30'-0"



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5/6/2024

**ELECTRICAL
DETAILS**

**CITY OF FEDERAL
WAY
SITE**

FEDERAL WAY, WASHINGTON

REVISION DATE

DATE JOB NO.

05.06.24 023-087

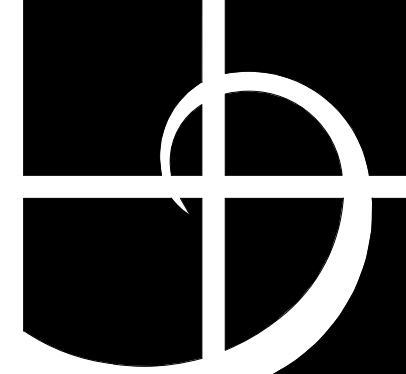
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ELECTRICAL ONE-LINE DIAGRAM

CITY OF FEDERAL WAY SITE

FEDERAL WAY, WASHINGTON

REVISION DATE

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SHEET NOTES

- 1. ALL BUSES SHALL BE 100% RATED.
2. TRANSFORMERS ARE 480 VOLT, 3 PHASE, 3 WIRE DELTA PRIMARY TO 208/120 VOLT WYE, 3 PHASE, 4 WIRE SECONDARY, UNLESS INDICATED OTHERWISE.
3. CONNECT ADDITIONAL SECTIONS OF MULTI-SECTION PANELS WITH CONDUCTORS SIZED THE SAME AS THE PANEL FEEDER CONDUCTORS.
4. PROVIDE ARC FLASH LABEL ON ALL NEW SWITCHBOARDS, PANEL BOARDS, DISCONNECT SWITCHES, ETC. PROVIDE SHORT CIRCUIT CALCULATIONS. REFER TO SPECIFICATIONS.
5. ALL ELECTRICAL EQUIPMENT SHORT CIRCUIT RATINGS SHALL EXCEED AVAILABLE FAULT CURRENTS. PROVIDE SHORT CIRCUIT CALCULATIONS TO DETERMINE AVAILABLE FAULT CURRENT BASED ON FIELD CONDITIONS.
6. COORDINATE FEEDER TAPS SUCH THAT LENGTH DOES NOT EXCEED 25' PER NEC REQUIREMENTS. EQUIPMENT GROUNDING CONDUCTORS OF TAPS SHALL BE SAME SIZE AS FEEDER EQUIPMENT GROUNDING CONDUCTOR OR SAME SIZE AS TAP PHASE CONDUCTOR, WHICHEVER IS SMALLER.

FLAG NOTES

- 1. PROVIDE 100% LOAD RATED SERVICE ENTRANCE CIRCUIT BREAKER.
2. PROVIDE TRENCHING AND BACKFILL FOR THE PRIMARY UTILITY EXTENSION IN ACCORDANCE WITH THE LOCAL UTILITY ELECTRIC SERVICE HANDBOOK.
3. PROVIDE EVACUATION FOR TRANSFORMER UTILITY VAULT INSTALLATION IN ACCORDANCE WITH LOCAL UTILITY ELECTRIC SERVICE HANDBOOK. PROVIDE ASSOCIATED VAULT GROUNDING, GUARD POSTS, AND ALL OTHER WORK NECESSARY TO COMPLY WITH THE UTILITY REQUIREMENTS.

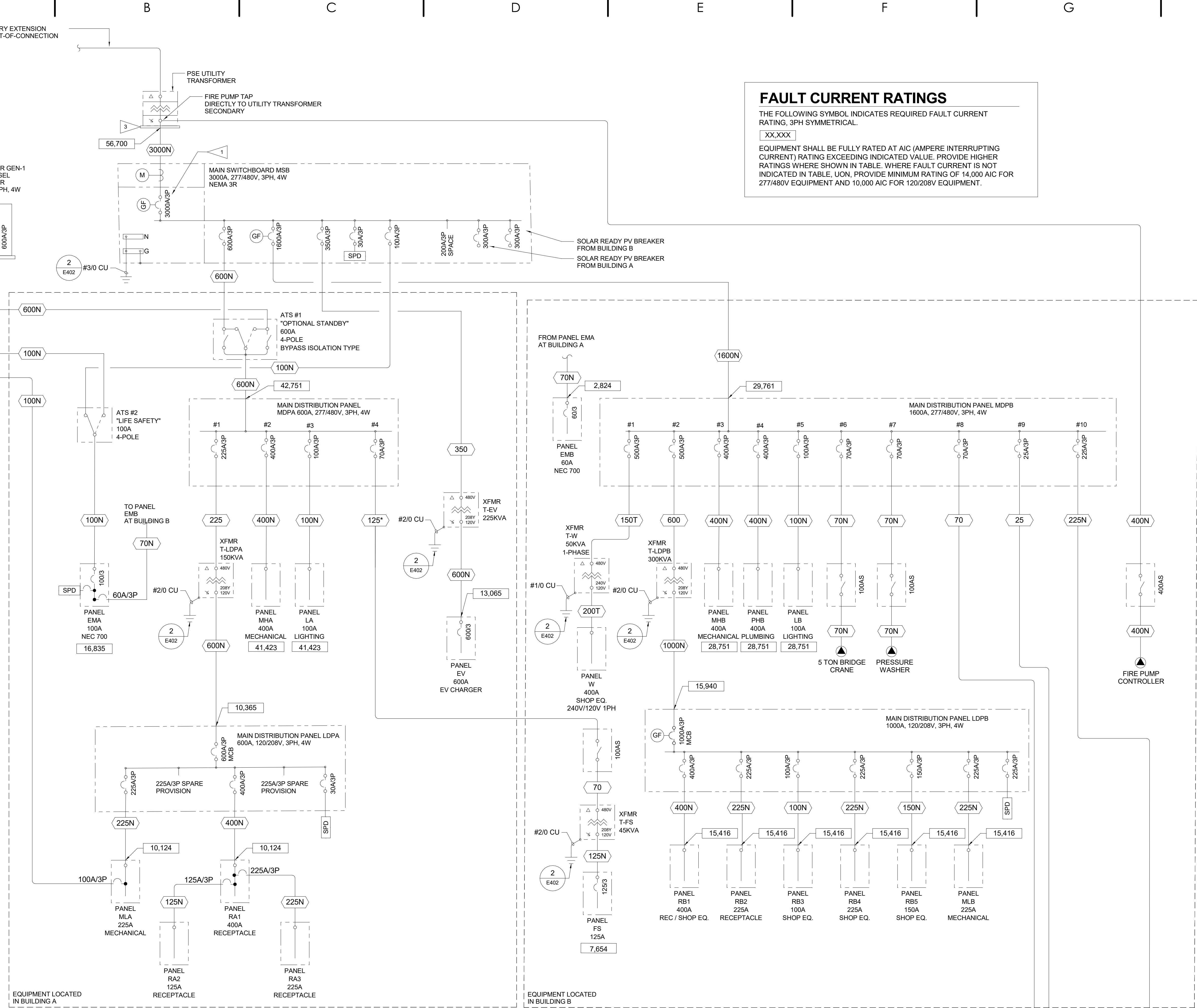
FAULT CURRENT RATINGS

THE FOLLOWING SYMBOL INDICATES REQUIRED FAULT CURRENT RATING, 3PH SYMMETRICAL.
XXXXX
EQUIPMENT SHALL BE FULLY RATED AT AIC (AMPERE INTERRUPTING CURRENT) RATING EXCEEDING INDICATED VALUE. PROVIDE HIGHER RATINGS WHERE SHOWN IN TABLE. WHERE FAULT CURRENT IS NOT INDICATED IN TABLE, UON, PROVIDE MINIMUM RATING OF 14,000 AIC FOR 277/480V EQUIPMENT AND 10,000 AIC FOR 120/208V EQUIPMENT.

FEEDER SCHEDULE

Table with columns: TAG, QUANTITY OF SETS, RACEWAY SIZE, PHASE, NEUTRAL, GND (NOTE2). Lists various feeders and their specifications.

NOTES:
1. COPPER FEEDERS ARE BASED ON COPPER CONDUCTORS WITH THWN/THHN INSULATION. CONDUCTORS DERATING IS BASED ON THWN/THHN CONDUCTORS WITH 90 DEGREES C RATING
2. GROUND CONDUCTOR (BONDING JUMPR) SHALL BE INCREASED FOR FEEDERS FROM THE SOURCE OF A SEPARATELY DERIVED SYSTEM TO THE FIRST DISCONNECTING MEANS PER NEC 250.30(A). SIZE AS INDICATED IN PARENTHESES.



ELECTRICAL EQUIPMENT NOTE:

PRIOR TO INSTALLATION OF PANELBOARDS, LIGHTING CONTROLS, METERS, FEEDERS, BRANCH CIRCUITS, AND ASSOCIATED EQUIPMENT, ELECTRICAL SUB-CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE EQUIPMENT LAYOUT FOR APPROVAL AT A MINIMUM, THE SHOP DRAWING SHALL SHOW A FLOOR PLAN THAT ACCURATELY SHOWS THE PROPOSED LOCATIONS OF ALL PANELBOARDS, METERS, CABINETS, AND ASSOCIATED EQUIPMENT. PROVIDE AN ELEVATION PLAN ACCURATELY SHOWING THE WALL LAYOUT OF THIS EQUIPMENT. SHOP DRAWINGS SHALL BE DIMENSIONED AND SCALED. ALL EQUIPMENT DIMENSIONS/SIZES SHALL BE BASED ON APPROVED SUBMITTAL INFORMATION, INCLUDING ALL EQUIPMENT THAT IS SUPPLIED BY OTHERS. THE LAYOUTS SHALL DEPICT A CODE COMPLIANT INSTALLATION THAT FITS THE AVAILABLE SPACE INDICATED ON THE PLANS. IN THE EVENT THERE ARE CONFLICTS THAT PROHIBIT THE EQUIPMENT FITTING WITHIN THE SPACE INDICATED ON THE PLANS, THE SUBMITTED LAYOUT SHALL CLEARLY SHOW ADJUSTMENTS THAT ARE NEEDED. IF INSTALLATION WORK OCCURS WITHOUT APPROVED SHOP DRAWINGS, THE ELECTRICAL SUB-CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR CORRECTIVE ACTION AND ALL COSTS NECESSARY FOR A COMPLETE AND COORDINATED INSTALLATION, FREE OF CONFLICTS WITH OTHER SYSTEMS AND TRADES.

ELECTRICAL SERVICE NOTES:

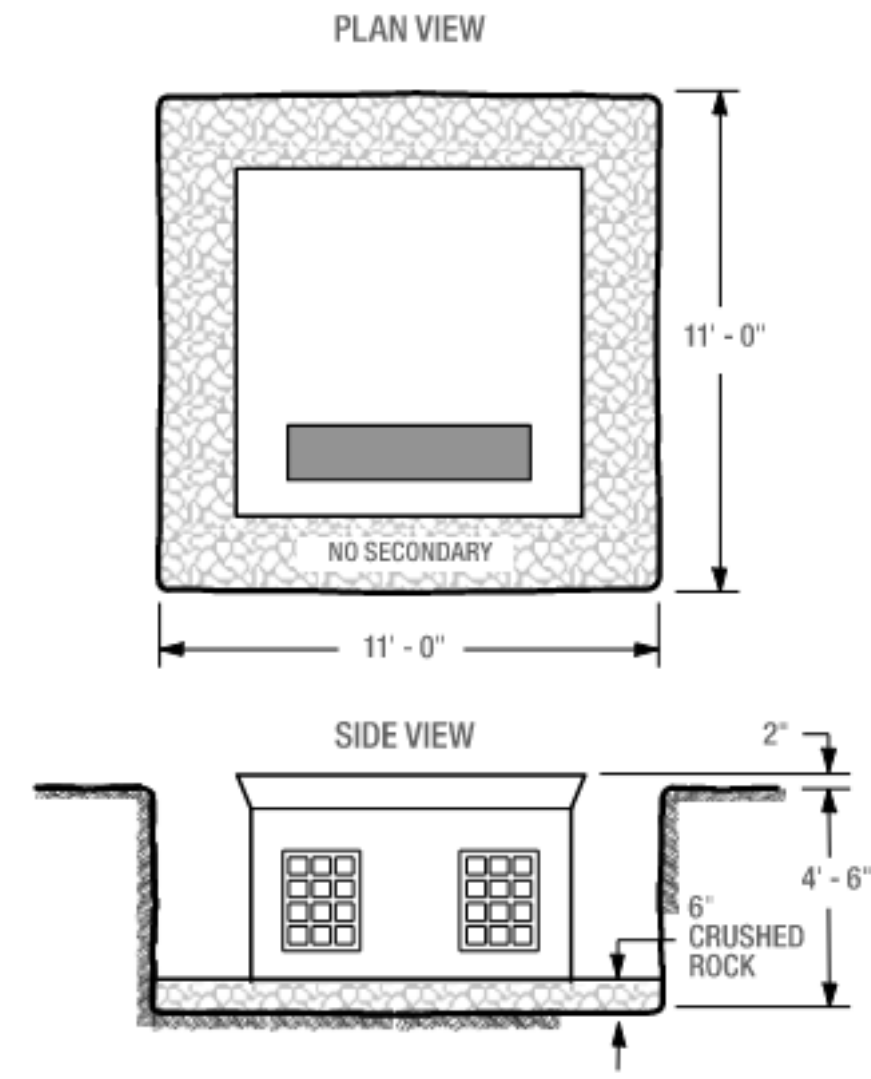
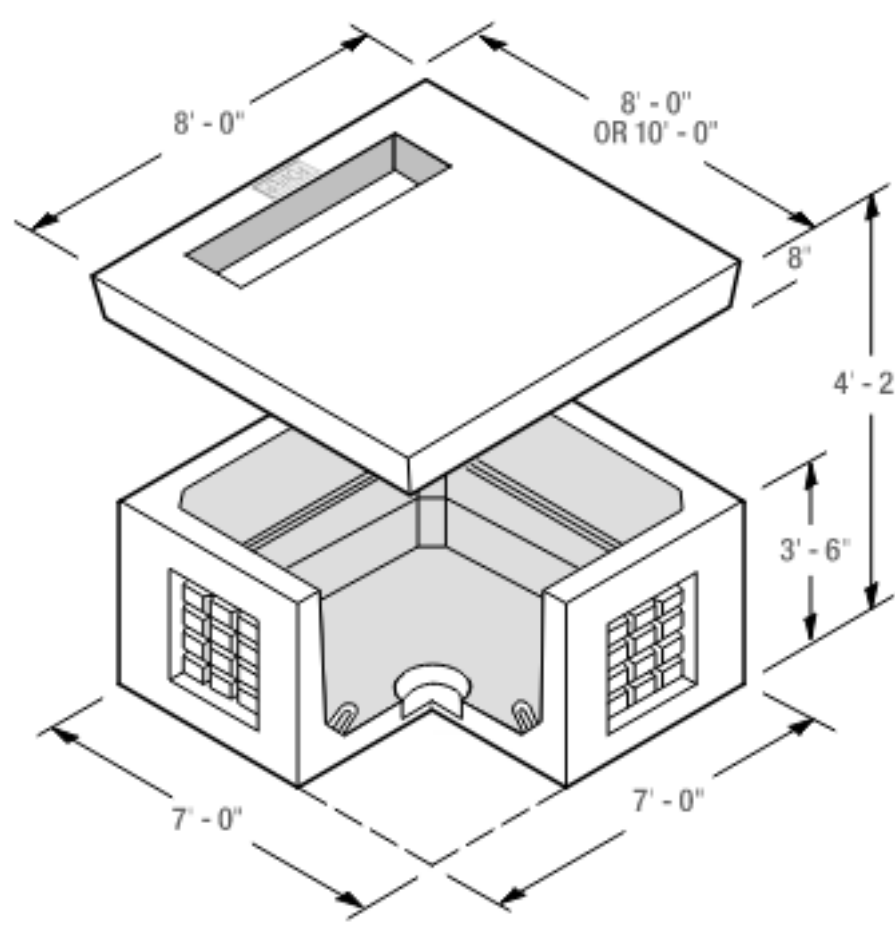
- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH LOCAL UTILITY COMPANY. PROVIDE NEW NEMA 3R RATED EUSERC SWITCHBOARD WITH METERING APPROVED BY THE LOCAL UTILITY COMPANY. PRIOR TO BID ELECTRICAL CONTRACTOR SHALL CONTACT THE UTILITY COMPANY AND VERIFY ALL REQUIREMENTS FOR A NEW ELECTRICAL SERVICE AND METERING. ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE SERVICE AND METERING (INCLUDING SERVICE LATERAL) IN COMPLIANCE WITH THE LOCAL UTILITY REQUIREMENTS. CONTRACTOR SHALL SUBMIT METERED SWITCHBOARD TO UTILITY FOR THEIR REQUIRED APPROVAL.
2. THE ELECTRICAL SUB-CONTRACTOR IS RESPONSIBLE FOR VERIFYING WITH THE UTILITY COMPANY THE AVAILABLE FAULT CURRENT AT THE SECONDARY OF THE UTILITY TRANSFORMER. DETERMINE THE SERVICE LATERAL SIZE/ROUTING LENGTH, PROVIDE THE FAULT CALCULATIONS, AND PROVIDE AN ELECTRICAL SERVICE ENTRANCE, PANELBOARD(S), BREAKERS AND EQUIPMENT FULLY RATED FOR THE AVAILABLE FAULT CURRENT. THE ELECTRICAL CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING THE ARC-FLASH CALCULATION STUDY AND LABELING OF EQUIPMENT PER CODE AND THE AHJ REQUIREMENTS.
3. CONTRACTOR IS TO BRING UP ANY DISCREPANCIES AND ITEMS WHICH ARE NOT SPECIFICALLY CALLED FOR OR SHOWN, BUT ARE REQUIRED FOR A COMPLETE ELECTRICAL SYSTEM, AND WHICH AFFECT HIS CONTRACT PRIOR TO ENTERING AND SIGNING THE CONTRACT. AFTER AWARDED THE CONTRACT, ALL SUCH ITEMS REQUIRED FOR A COMPLETE SYSTEM READY FOR THE OWNERS BENEFICIAL USE SHALL BE FURNISHED AND INSTALLED INCLUDING ALL SUCH AFOREMENTIONED DISCREPANCY ITEMS AT NO ADDITIONAL COST TO THE OWNER.
4. ALL WORK SHALL CONFORM TO UL, NEC, NFPA, AND ALL OTHER CODES OF JURISDICTION WHICH ARE APPLICABLE TO THIS ELECTRICAL INSTALLATION.
5. PRIOR TO ORDERING ANY EQUIPMENT, CONTRACTOR SHALL OBTAIN APPROVAL FROM THE AHJ AND LOCAL ELEC UTILITY FOR THE ELEC SERVICE METERING EQUIPMENT, LAYOUT, RATING AND LOCATION.

ELECTRICAL ONE-LINE DIAGRAM

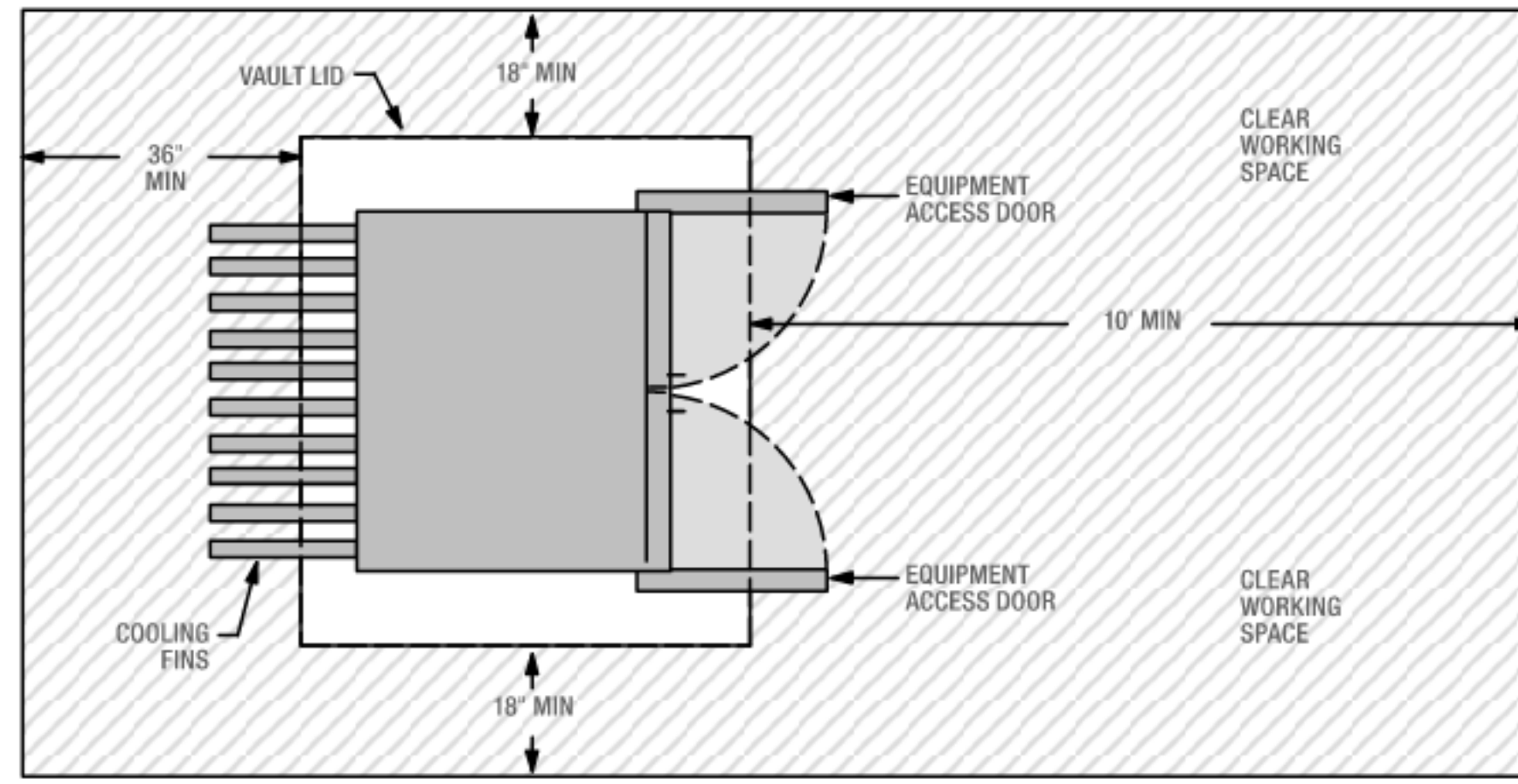
1/8" = 1'-0"

PROJECT: 202409 - CITY OF FEDERAL WAY
FILE PATH: C:\Users\chris\Documents\202409 - City of Federal Way\Site - Elec - one-line diagram\E401.dwg

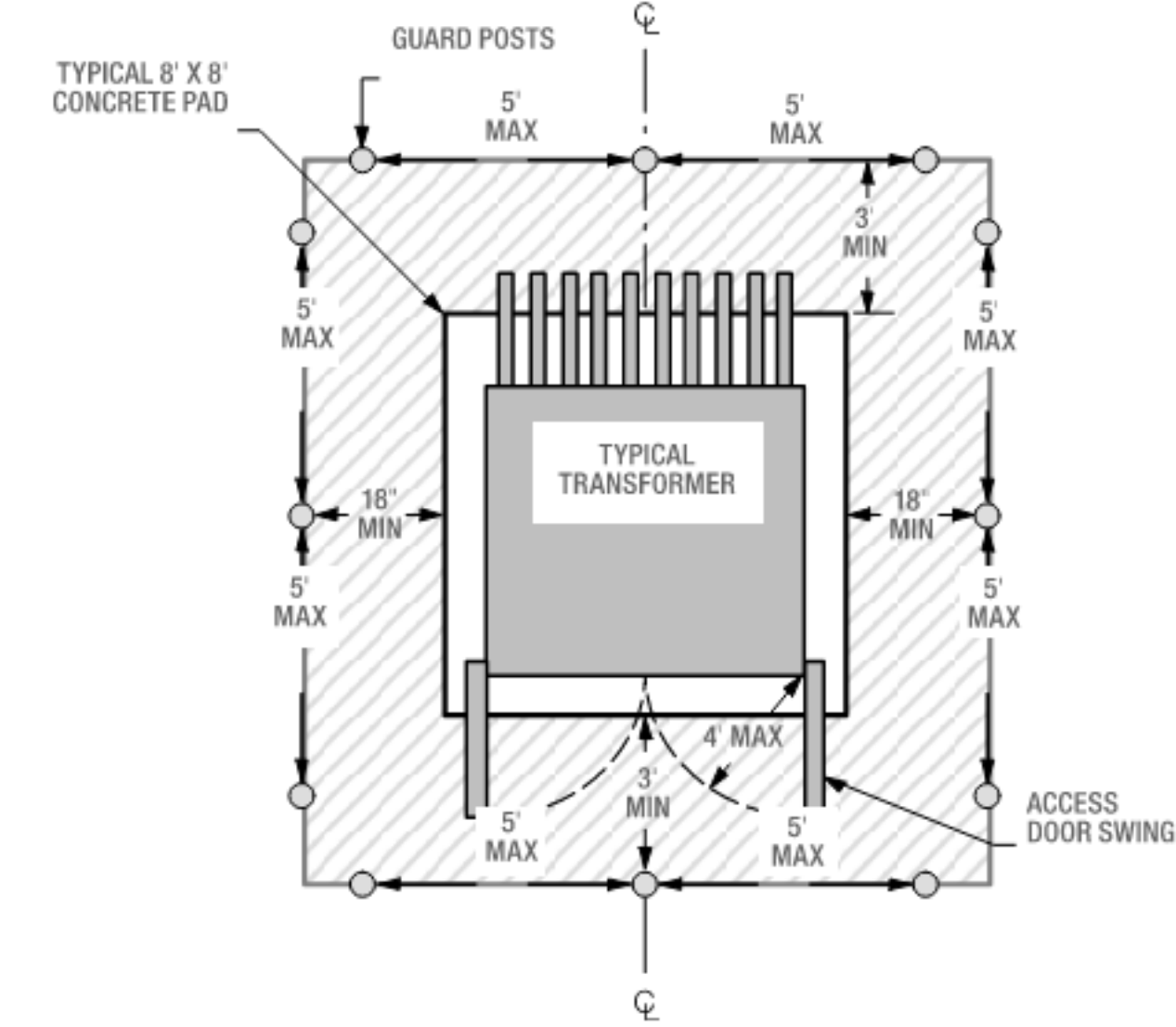
UNOFFICIAL COPY Official bid documents, open holder's list, and addenda (if applicable) are available on B2XWA.com



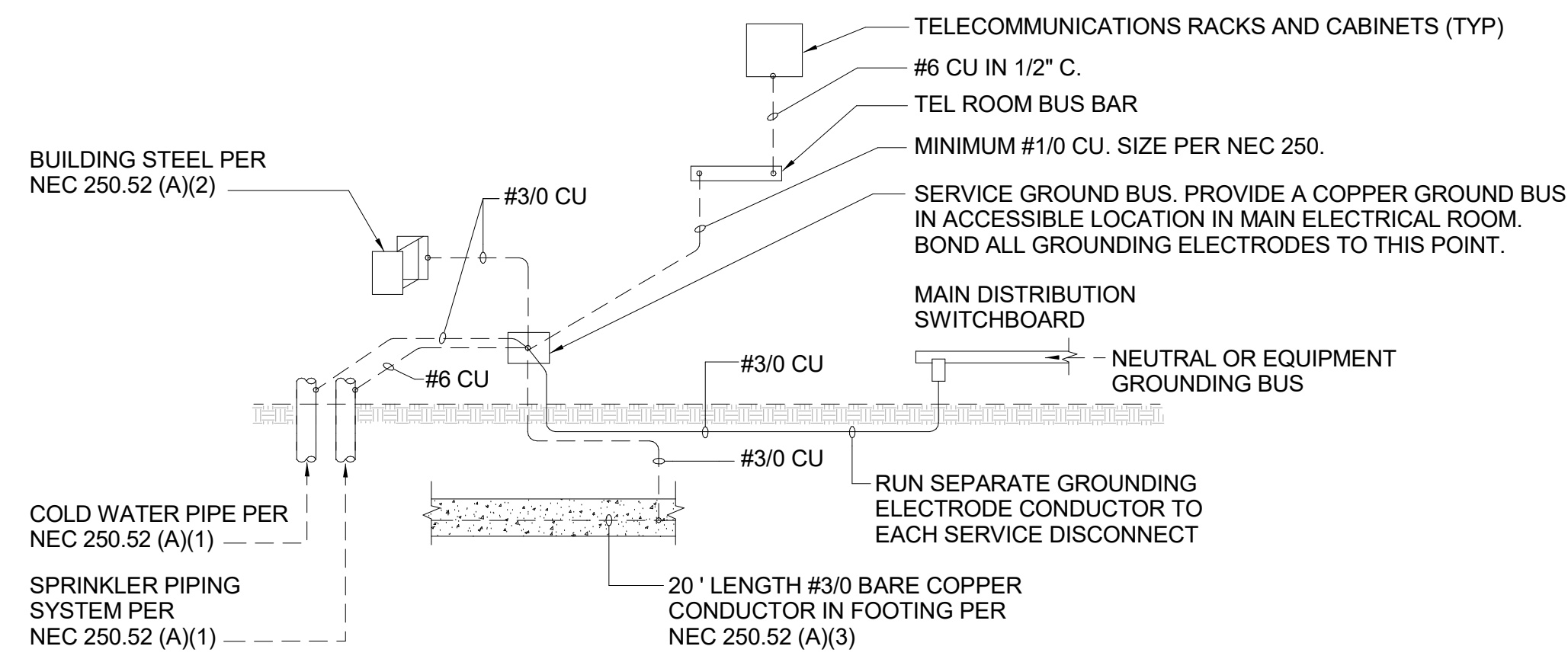
3-PHASE PAD MOUNT TRANSFORMER 500KVA AND LARGER



PAD MOUNT TRANSFORMER CLEARANCE REQUIREMENTS

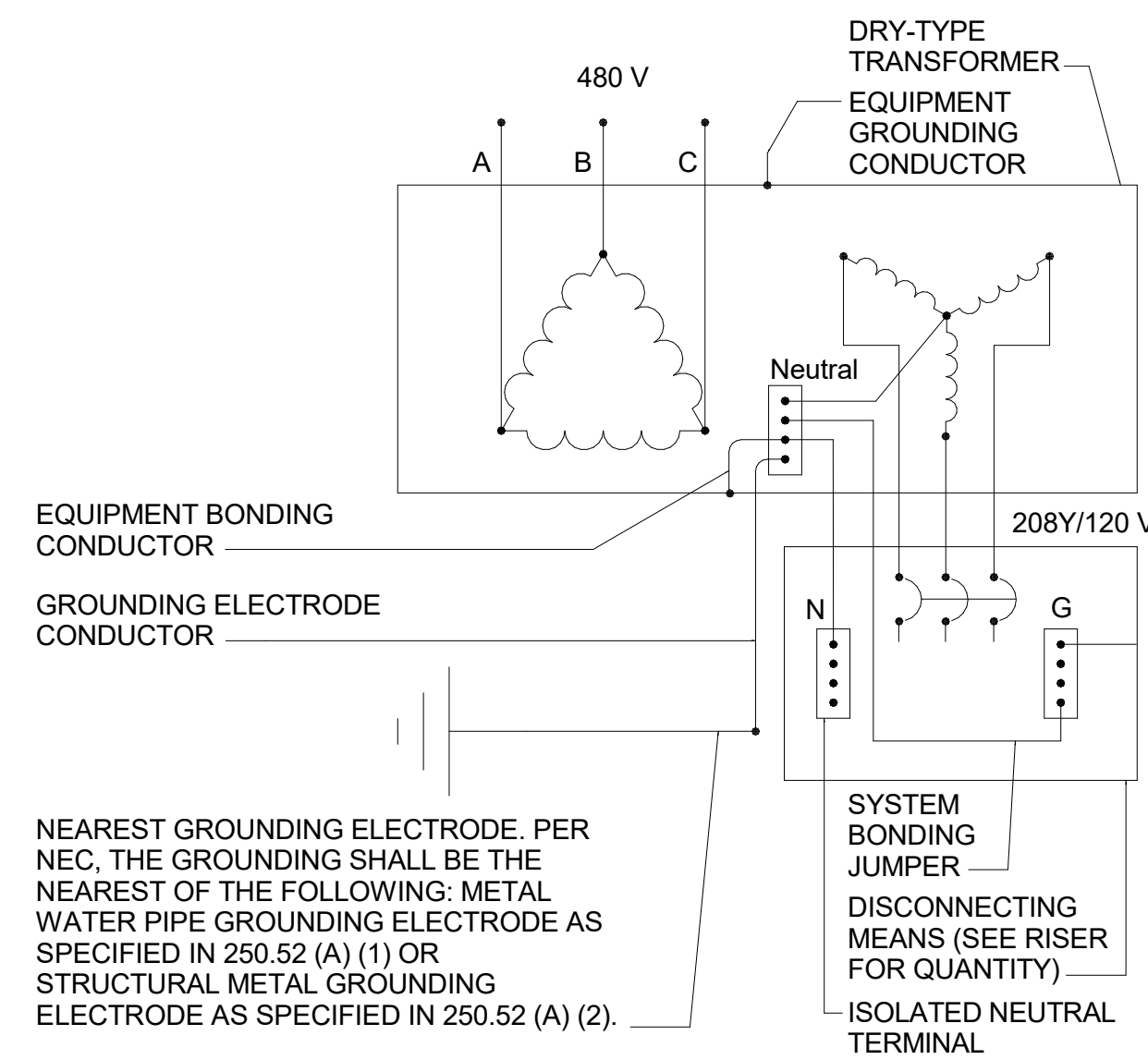


GUARDPOSTS FOR PADMOUNT TRANSFORMER



NOTE:
 1. ALL GROUNDING ELECTRODE CONDUCTORS SHALL BE PROTECTED WHERE EXPOSED TO PHYSICAL DAMAGE PER REQUIREMENTS OF NEC 250.64(B)
 2. PROVIDE BONDING OF METAL WATER PIPING, STRUCTURAL METAL AND OTHER METAL PIPING PER NEC 250.104

ELECTRICAL SERVICE GROUNDING DETAIL



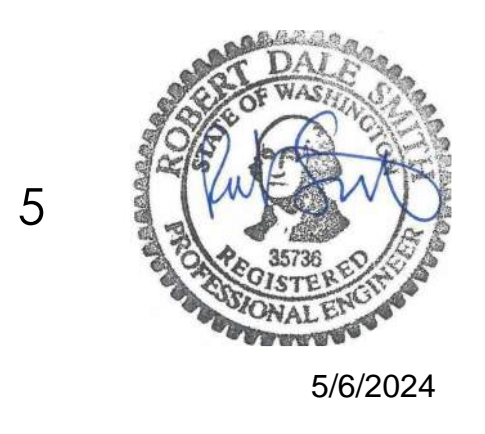
NEAREST GROUNDING ELECTRODE. PER NEC, THE GROUNDING SHALL BE THE NEAREST OF THE FOLLOWING: METAL WATER PIPE GROUNDING ELECTRODE AS SPECIFIED IN 250.52 (A) (1) OR STRUCTURAL METAL GROUNDING ELECTRODE AS SPECIFIED IN 250.52 (A) (2).

SEPARATELY DERIVED GROUND (PER NEC 250.30)



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ELECTRICAL SERVICE DETAILS

CITY OF FEDERAL WAY SITE

FEDERAL WAY, WASHINGTON	
REVISION	DATE
DATE	JOB NO.
05.06.24	023-087
BID SET	

E402

PLOTTED: 5/7/2024 11:00:35 PM PROJECT: a23-087 - CITY OF FEDERAL WAY
 FILE PATH: C:\Users\chris\Documents\23-087 - Federal Way\087 Site - Elec_cons\shopper\magaz23\FWFD_vt

GENERAL NOTES

- 1. PERFORM WORK IN ACCORDANCE WITH APPLICABLE NATIONAL AND STATE CODES AS AMENDED LOCALLY AND ENFORCED BY THE AHJ.
2. OBTAIN AND PAY FOR PERMITS REQUIRED FOR INSTALLATION OF WORK. ARRANGE AND SCHEDULE REQUIRED INSPECTIONS.
3. COORDINATE WITH UTILITY COMPANIES FURNISHING SERVICES TO PROJECT. INSTALLATION OF UTILITY SERVICES SHALL BE IN ACCORDANCE WITH UTILITY REQUIREMENTS. VERIFY APPLICABLE INSTALLATION STANDARDS AND REQUIREMENTS. PROVIDE AND SUBMIT ELECTRICAL DRAWINGS TO UTILITY FOR APPROVAL PRIOR TO ROUGH-IN AND PRIOR TO ORDERING EQUIPMENT.
4. DEVICE LOCATIONS ARE APPROXIMATE. COORDINATE DEVICE LOCATIONS AND ELEVATIONS WITH APPROPRIATE DOCUMENTS INCLUDING CASEWORK SHOP DRAWINGS AND ARCHITECT'S INTERIOR ELEVATIONS PRIOR TO ROUGH-IN.
5. COORDINATE TELECOM WORK WITH THAT OF OTHER TRADES. REFER TO ELECTRICAL, MECHANICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, AND LANDSCAPE DRAWINGS AND SPECIFICATIONS. COORDINATION SHALL OCCUR PRIOR TO FABRICATION, PURCHASE, AND INSTALLATION OF WORK.
6. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION/SEISMIC JOINTS. PROVIDE RACEWAY EXPANSION/SEISMIC JOINTS FOR RACEWAYS CROSSING BUILDING EXPANSION/SEISMIC JOINTS.
7. DEMOLISH EXISTING SYSTEMS AS INDICATED ON PLANS OR AS REQUIRED FOR INSTALLATION OF NEW WORK. MATERIAL SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF OFF SITE UNLESS OTHERWISE DIRECTED. RETURN ITEMS TO OWNER IN EXISTING CONDITION WHEN DIRECTED BY OWNER.
8. COMPLETION OF WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE PROJECT SCHEDULE. SCHEDULE INSTALLATION WITH OTHER TRADES TO ENSURE PROJECT MILESTONES ARE MET.
9. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION. PROVIDE COMPONENTS REQUIRED FOR COMPLETE AND OPERATIONAL SYSTEMS INCLUDING RACKWAYS, CONDUCTORS, BOXES, SUPPORTS AND SIMILAR ITEMS.
10. LOCATIONS OF RACEWAY, PATHWAY AND SIMILAR ITEMS ARE SHOWN SCHEMATICALLY. COORDINATE INSTALLATION, INCLUDING BUT NOT LIMITED TO CABLING, TELECOMMUNICATION PATHWAYS AND SPACES, AND EXACT LOCATION OF HORIZONTAL AND BACKBONE CABLING WITH LOCATIONS OF FIXED CASEWORK AND BUILDING CONDITIONS AFFECTING THE WORK OF THIS CONTRACT.
11. NEW CABLING INSTALLATIONS SHALL BE CONCEALED IN WALL, CEILINGS, AND BELOW RAISED FLOOR SPACES UNLESS OTHERWISE NOTED ON THE DRAWINGS. CABLING IN ACCESSIBLE CEILING SPACES SHALL BE INSTALLED AS OPEN CABLING NEAR STRUCTURES AND WALLS OR AS SPECIFICALLY NOTED ON DRAWINGS. SEE SPECIFICATIONS FOR SUPPORT REQUIREMENTS.
12. PROVIDE FIRESTOPPING SYSTEMS FOR CONDUIT AND RACEWAY SYSTEMS AT PENETRATIONS, SLEEVES AND SLOTS OF FIRE RATED CONSTRUCTION FOR HORIZONTAL AND INTRABUILDING PATHWAYS AND SPACES.
13. INTRABUILDING OPTICAL FIBER CABLING SHALL BE CLEARLY AND VISIBLY IDENTIFIED IN PULLBOXES, ENTRANCE POINTS, EACH RISER ROOM, AND 5'-0" BEFORE ENTERING A FREE STANDING RACK UTILIZING AN OPTICAL FIBER CABLE MARKER TAG SYSTEM.
14. MAINTAIN A MINIMUM SPACING OF 12" FROM ELECTRICAL FEEDERS AND BRANCH CIRCUIT WIRING AND 12" FROM AUXILIARY SYSTEM CABLING.
15. MINIMUM SPACING FROM ELECTRICAL APPARATUS SUCH AS MOTOR DRIVEN EQUIPMENT AND TRANSFORMERS SHALL BE 6'-0" SPACING REQUIREMENTS SHALL APPLY TO OPEN CABLING PATHWAYS WHERE EQUIPMENT IS LOCATED ON THE SAME FLOOR, FLOOR ABOVE, FLOOR BELOW, OR IN ROOMS ADJACENT TO SUCH EQUIPMENT AS THOUGH WALLS AND FLOORS DID NOT EXIST. EXCEPTION: BUILDING CONSTRUCTION THAT RESULTS IN CONTINUOUS METALLIC BARRIER BETWEEN ELECTRICAL APPARATUS AND CABLE PATHWAYS SHALL BE CONSIDERED AS SUITABLE SEPARATION.
16. PRIOR TO STARTING TELECOMMUNICATIONS INSTALLATION, CAREFULLY INSPECT INSTALLED WORK OF OTHER TRADES AND VERIFY THAT SUCH WORK IS COMPLETE TO THE POINT WHERE WORK MAY PROPERLY COMMENCE. NOTIFY THE ARCHITECT AND ENGINEER IN WRITING OF CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK.
17. DO NOT BEGIN TELECOMMUNICATIONS INSTALLATION UNTIL ALL UNSATISFACTORY CONDITIONS ARE RESOLVED. BEGINNING WORK CONSTITUTES ACCEPTANCE OF CONDITIONS AS SATISFACTORY.
18. ROUTE CATEGORY 6/6A CABLES TO THEIR ASSIGNED CROSS-CONNECT PER THE IDENTIFICATION LABEL AT EACH TELECOMMUNICATIONS WORKSTATION DEVICE. TERMINATE ALL CABLES ON 48-PORT PATCH PANELS ON RACKS UNLESS OTHERWISE NOTED.
19. THE CONTRACTOR SHALL PROVIDE ALL CONDUIT, OUTLET BOXES, JUNCTION BOXES, RACEWAY SYSTEMS, ETC. FOR A COMPLETE AND OPERATIONAL PATHWAY SYSTEM FOR ALL TELECOMMUNICATIONS SYSTEMS PER THE SCOPE OF WORK INDICATED ON THE CONSTRUCTION DRAWINGS AND BID SPECIFICATIONS.
20. CABLE TRAY PATHWAYS ABOVE ACCESSIBLE CEILINGS SHALL BE PROVIDED BY THE TELECOM CONTRACTOR. CABLE TRAY PATHWAYS BELOW RAISED FLOOR SPACES SHALL BE PROVIDED BY THE TELECOMMUNICATIONS CONTRACTOR.

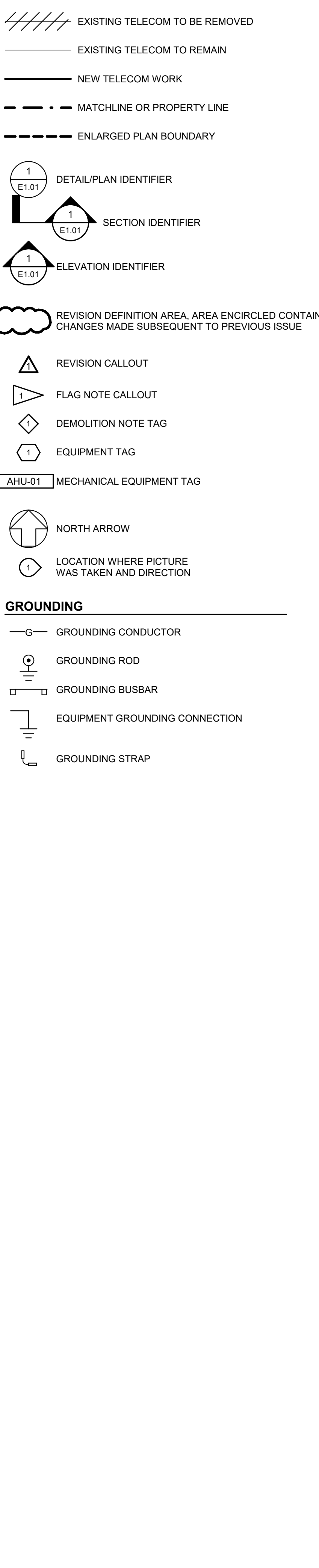
ABBREVIATIONS

Table with 2 columns: Abbreviation and Description. Includes entries like AC AMPERE, AF AIR CONDITIONING, AL ALUMINUM, ANSI AMERICAN NATIONAL STANDARDS INSTITUTE, etc.

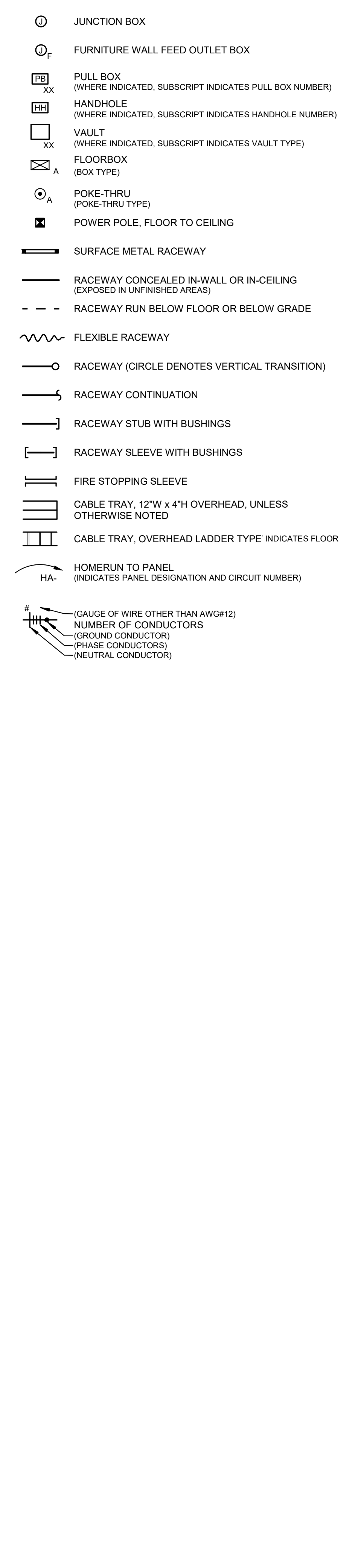
GENERAL

Table with 2 columns: Abbreviation and Description. Includes entries like MFR MANUFACTURER, MH MANHOLE, MIN MINIMUM, MLO MAIN LUGS ONLY, etc.

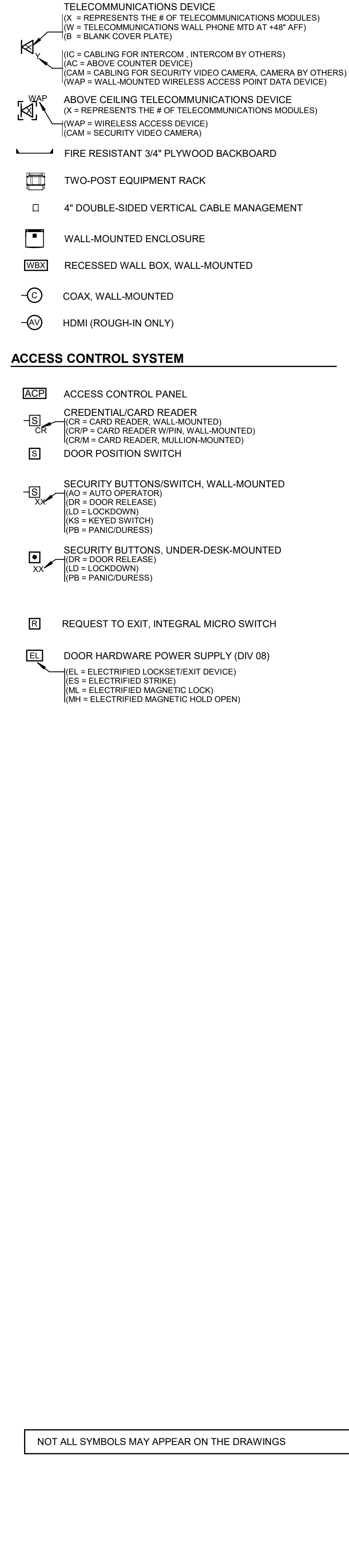
RACEWAY AND BOXES



TELECOMMUNICATIONS SYSTEM



ACCESS CONTROL SYSTEM



DRAWING INDEX

Table with 2 columns: Drawing Number and Description. Includes T001 TELECOM LEGEND, GENERAL NOTES, ABBREVIATIONS, AND DRAWING INDEX, T002 TELECOM AND SECURITY ROUGH-IN SCHEDULES, T101 TELECOM SITE PLAN - NORTH, etc.



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TELECOM LEGEND, GENERAL NOTES, ABBREVIATIONS, AND DRAWING INDEX

CITY OF FEDERAL WAY SITE STRUCTURES

FEDERAL WAY, WASHINGTON

Table with 2 columns: REVISION and DATE. Includes revision 9.

DATE 05.06.24 JOB NO. 023-087

BID SET

T001

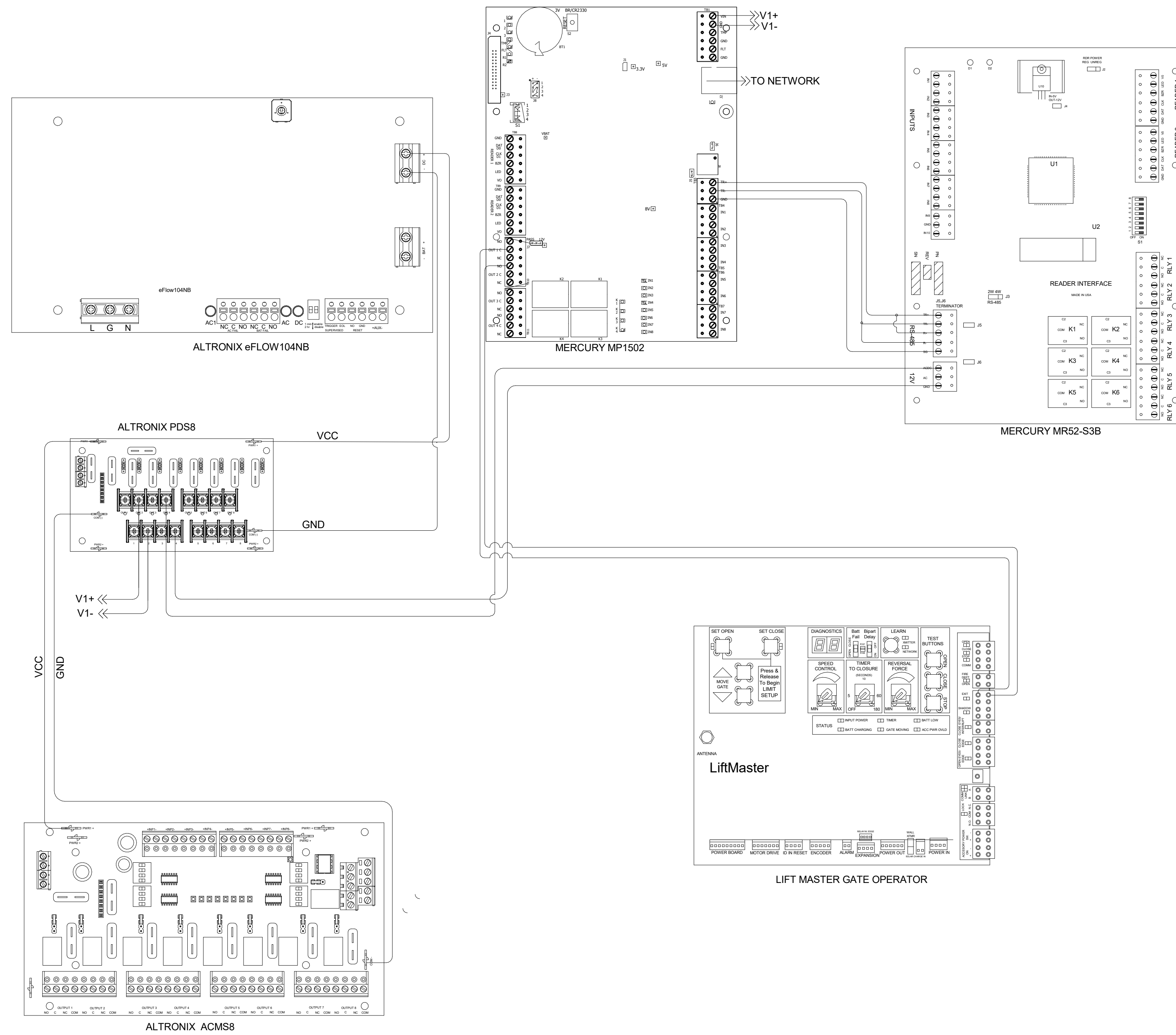
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SHEET NOTES

1. CONFIRM AND DOCUMENT SEQUENCE OF OPERATION PRIOR TO START OF WORK AND CONFIRM IT'S MAINTAINED AT THE COMPLETION OF THE PROJECT.
2. CABLES DRAWN IN DASHED LINE ARE FOR EQUIPMENT ON THE UNSECURED SIDE OF THE DOOR UNLESS OTHERWISE NOTED.
3. DETAIL IS INTENDED TO COVER VARIOUS OPTIONS. WHERE NOT ALL OPTIONS ARE PRESENT, REMOVE THE SCOPE FOR THE OPTIONS NOT PRESENT. LOCATIONS ARE DIAGRAMMATIC. EXACT LOCATIONS TO BE FIELD COORDINATED.
4. SPARE CABLE/ CONDUCTORS LOCATED IN THE ACCESS CONTROL/ POWER SUPPLY PANELS AND AT DOOR JUNCTION BOXES SHALL NOT BE CUT BACK OR SHORTENED. PROVIDE HEAT SHRINK TUBING AROUND THE END OF THE CABLE JACKET AND HEAT SHRINK TUBING AT THE ENDS OF THE SPARE CONDUCTORS ENCOMPASSING BOTH THE CABLE JACKET AND CONDUCTORS.

FLAG NOTES

- 1. PROVIDE HEAT SHRINK AT ENDS OF CABLES AND SPARE CONDUCTOR ENDS. SEE NOTE 4 ABOVE FOR ADDITIONAL INFORMATION.



1 **DETAIL - WIRING DIAGRAM FOR GATE OPERATOR**
 T902 SCALE: NONE



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SECURITY
 ONE-LINE
 DIAGRAM

CITY OF
 FEDERAL WAY
 SITE STRUCTURES

FEDERAL WAY, WASHINGTON	
REVISION	DATE
DATE	JOB NO.
05.06.24	023-087
BID SET	

T902

PLOTTED: 5/6/2024 5:05:35 PM PROJECT: #23-087 - CITY OF FEDERAL WAY
 FILE PATH: C:\Users\jw\Documents_Local\Item Files\2314\Federal Way Cam Site - Elec_3m_v04\T902.rvt

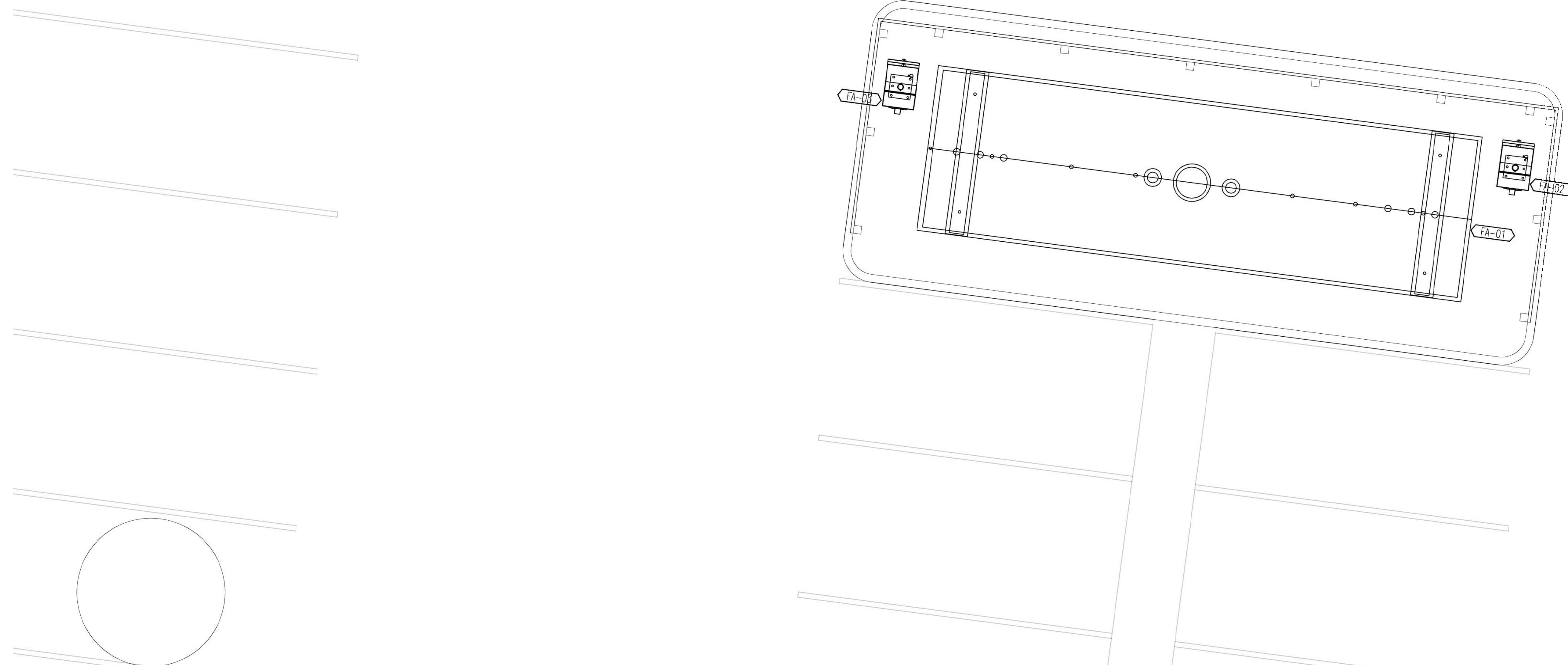
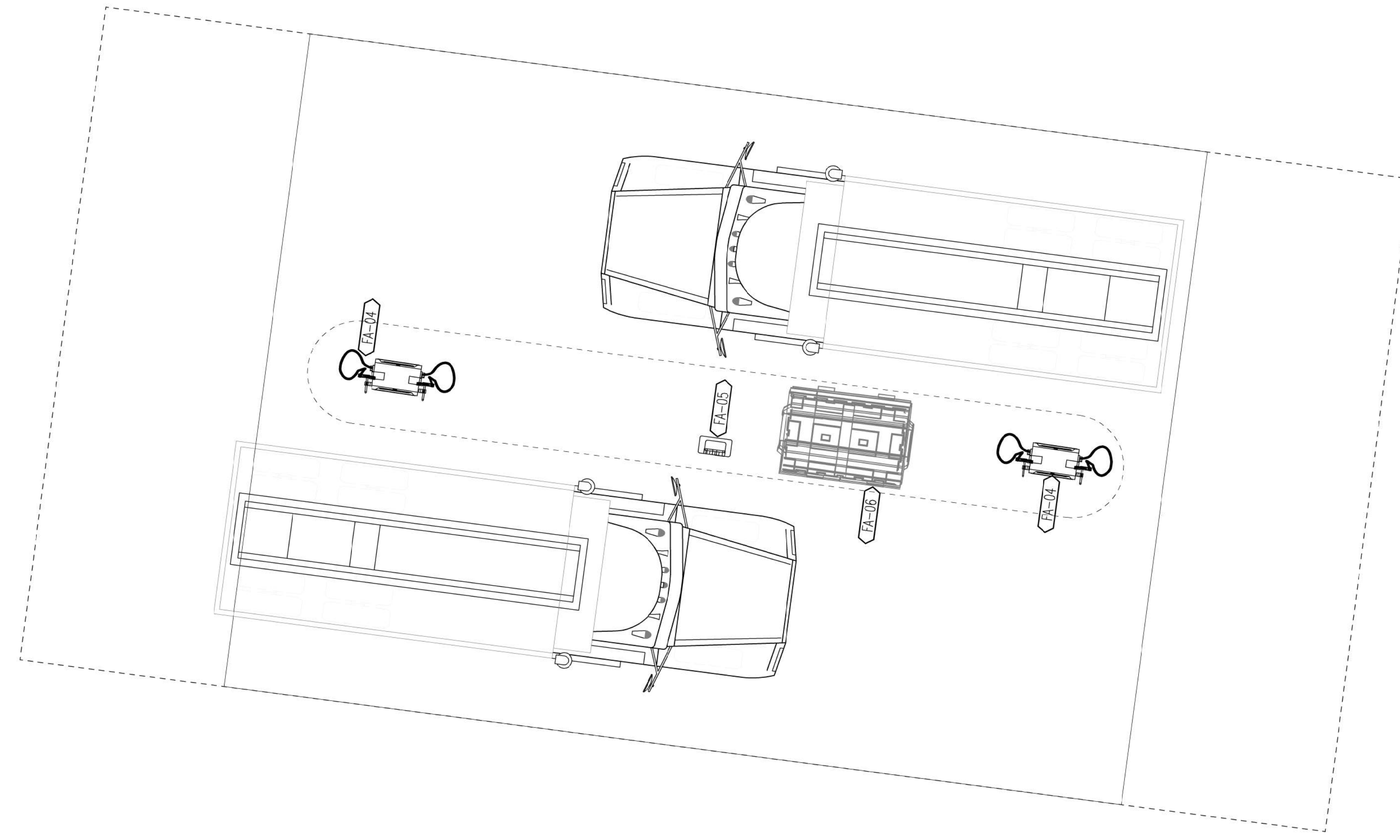
EQUIPMENT LEGEND

FUELING AREA

- FA-01 20,000 GAL (15K/5K SPLIT) HORIZONTAL ABOVE GROUND FUEL STORAGE TANK
- FA-02 TANK FILL ASSEMBLY – DIESEL REMOTE SPILL CONTAINER
- FA-03 TANK FILL ASSEMBLY – GASOLINE REMOTE SPILL CONTAINER
- FA-04 FUEL DISPENSING PUMPS
- FA-05 CARDLOCK SYSTEM
- FA-06 ROLLTOP DRUM DEF SPILL CONTAINMENT

SYMBOL LEGEND

- EQUIPMENT
- WORK BENCH
- STORAGE
- CART
- WASTE/RECYCLE BIN
- XX-XX EQUIPMENT I.D TAG



FUEL STATION TANKER AND DISPENSING EQUIPMENT PLAN
1/4" = 1'-0"



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FUEL STATION TANKER AND DISPENSING EQUIPMENT PLAN

CITY OF FEDERAL WAY OPERATIONS & MAINTENANCE FACILITY

FEDERAL WAY, WASHINGTON

REVISION	DATE

DATE: 05.06.24 JOB NO: 023-087

BID SET

IP-06

WHITE
DRAWING NO.
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