

**LEGAL DESCRIPTION**

SOUTH 100 FEET OF THE NORTH 400 FEET OF GOVERNMENT LOT 2, SECTION 30, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M. TOGETHER WITH SECOND CLASS SHORELANDS ADJOINING SAID PREMISES

SITUATE IN THE CITY OF MERCER ISLAND, COUNTY OF KING, STATE OF WASHINGTON.

**BASIS OF BEARINGS**

N 89°59'33" E ALONG SUBDIVISION LINE AS SHOWN HERON AND PER R1, R2, R3 & R4.

**REFERENCES**

- R1. RECORD OF SURVEY, VOL. 32, PG. 274, RECORDS OF KING COUNTY, WASHINGTON.
R2. MERCER ISLAND LLR VOL. 42, PG. 150 RECORDS OF KING COUNTY, WASHINGTON.
R3. RECORD OF SURVEY, VOL. 21, PG. 197, RECORDS OF KING COUNTY, WASHINGTON.
R4. MERCER ISLAND SHORT PLAT, VOL. 43, PG. 107, RECORDS OF KING COUNTY, WASHINGTON.

**VERTICAL DATUM**

NAVD88 PER GPS OBSERVATIONS

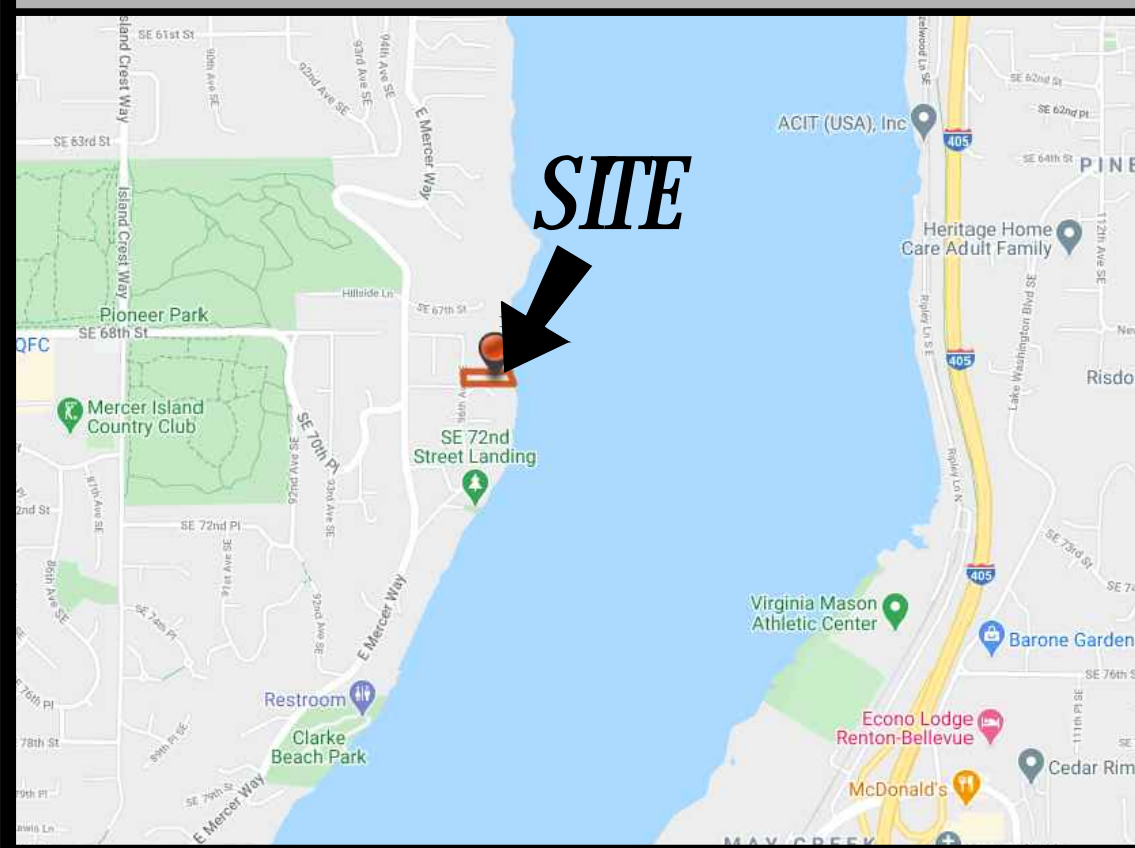
**SURVEYOR'S NOTES**

- 1. THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN JANUARY & JULY OF 2021. THE FIELD DATA WAS COLLECTED AND RECORDED ON MAGNETIC MEDIA THROUGH AN ELECTRONIC THEODOLITE. THE DATA FILE IS ARCHIVED ON DISC OR CD. WRITTEN FIELD NOTES MAY NOT EXIST. CONTOURS ARE SHOWN FOR CONVENIENCE ONLY. DESIGN SHOULD RELY ON SPOT ELEVATIONS.
2. ALL MONUMENTS SHOWN HEREON WERE LOCATED DURING THE COURSE OF THIS SURVEY UNLESS OTHERWISE NOTED.
3. THE TYPES AND LOCATIONS OF ANY UTILITIES SHOWN ON THIS DRAWING ARE BASED ON INFORMATION PROVIDED TO US, BY OTHERS OR GENERAL INFORMATION READILY AVAILABLE IN THE PUBLIC DOMAIN INCLUDING, AS APPLICABLE, IDENTIFYING MARKINGS PLACED BY UTILITY LOCATE SERVICES AND OBSERVED BY TERRANE IN THE FIELD. AS SUCH, THE UTILITY INFORMATION SHOWN ON THESE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY AND SHOULD NOT BE RELIED ON FOR DESIGN OR CONSTRUCTION PURPOSES; TERRANE IS NOT RESPONSIBLE OR LIABLE FOR THE ACCURACY OR COMPLETENESS OF THIS UTILITY INFORMATION. FOR THE ACCURATE LOCATION AND TYPE OF UTILITIES NECESSARY FOR DESIGN AND CONSTRUCTION, PLEASE CONTACT THE SITE OWNER AND THE LOCAL UTILITY LOCATE SERVICE (800-424-5555).
4. SUBJECT PROPERTY TAX PARCEL NO. 3024059010
5. SUBJECT PROPERTY AREA PER THIS SURVEY IS 37,427 S.F. (0.86 ACRES), HOLDING THE STANDARD 18.6' CONTOUR FOR LAKE WASHINGTON, THE AREA IS 37,673 S.F. (0.86 ACRES).
6. THE PROPERTY DESCRIBED HEREON IS THE SAME AS THE PROPERTY DESCRIBED IN FIRST AMERICAN TITLE INSURANCE COMPANY, COMMITMENT NO. RC 40236167, WITH AN EFFECTIVE DATE OF DECEMBER 2, 2020 AND THAT ALL EASEMENTS, COVENANTS AND RESTRICTIONS REFERENCED IN SAID TITLE COMMITMENT OR APPARENT FROM A PHYSICAL INSPECTION OF THE PROPERTY OR OTHERWISE KNOWN TO ME HAVE BEEN PLOTTED HEREON OR OTHERWISE NOTED AS TO THEIR EFFECT ON THE PROPERTY.
7. FIELD DATA FOR THIS SURVEY WAS OBTAINED BY DIRECT FIELD MEASUREMENTS WITH A CALIBRATED ELECTRONIC 5-SECOND TOTAL STATION AND/OR SURVEY GRADE GPS OBSERVATIONS. ALL ANGULAR AND LINEAR RELATIONSHIPS ARE ACCURATE AND MEET THE STANDARDS SET BY WAC 332-130-090.

**LEGEND**

Legend table with symbols for Area Drain, Asphalt Surface, Building, Centerline ROW, etc., and utility symbols like Power Pole, Sewer Line, Water Meter, etc.

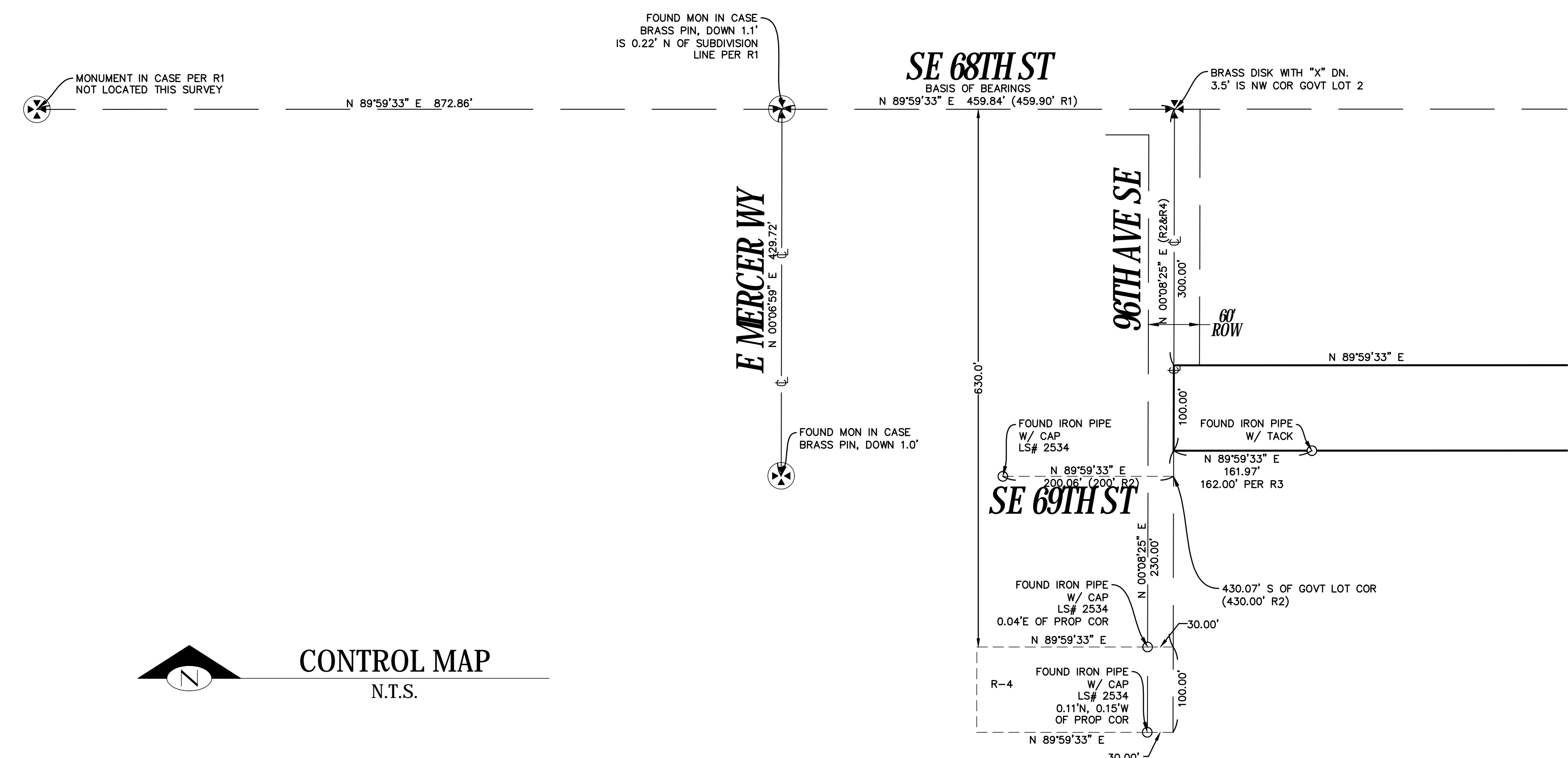
**VICINITY MAP N.T.S.**



**TOPOGRAPHIC & BOUNDARY SURVEY**

**SCHEDULE B ITEMS**

- 3. NOTICE OF TAP OR CONNECTION CHARGES WHICH HAVE BEEN OR WILL BE DUE IN CONNECTION WITH DEVELOPMENT OR RE-DEVELOPMENT OF THE LAND AS DISCLOSED BY RECORDED INSTRUMENT. INQUIRIES REGARDING THE SPECIFIC AMOUNT OF THE CHARGES SHOULD BE MADE TO THE CITY/COUNTY/AGENCY. CITY/COUNTY/AGENCY: CITY OF MERCER ISLAND RECORDED: DECEMBER 06, 1977 RECORDING NO.: 7712060812 (NOT PLOTTED-BLANKET IN NATURE)
4. EASEMENT AND THE TERMS AND CONDITIONS THEREOF: GRANTEE: PUGET SOUND POWER AND LIGHT COMPANY PURPOSE: ELECTRIC TRANSMISSION AND DISTRIBUTION LINE AREA AFFECTED: WESTERLY PORTION OF SAID PREMISES RECORDING NO.: 2616148 (PLOTTED)
5. EASEMENT AND THE TERMS AND CONDITIONS THEREOF: GRANTEE: MERCER ISLAND SEWER DISTRICT PURPOSE: SEWER LINE AREA AFFECTED: A PORTION OF SAID PREMISES RECORDING NO.: 5750932 (EASEMENT OVER LINE AS CONSTRUCTED ACROSS 2ND CLASS SHORELANDS.-NOT PLOTTED-BLANKET IN NATURE)



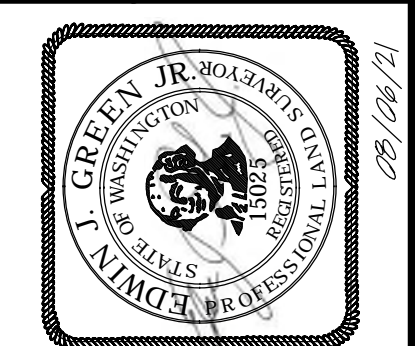
**STEEP SLOPE/BUFFER DISCLAIMER:**

THE LOCATION AND EXTENT OF STEEP SLOPES SHOWN ON THIS DRAWING ARE FOR INFORMATIONAL PURPOSES ONLY AND CANNOT BE RELIED ON FOR DESIGN AND/OR CONSTRUCTION. THE FITCH, LOCATION, AND EXTENT ARE BASED SOLELY ON OUR GENERAL OBSERVATIONS ON SITE AND OUR CURSORY REVIEW OF READILY AVAILABLE PUBLIC DOCUMENTS; AS SUCH, TERRANE CANNOT BE LIABLE OR RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY STEEP SLOPE INFORMATION. ULTIMATELY, THE LIMITS AND EXTENT OF ANY STEEP SLOPES ASSOCIATED WITH ANY SETBACKS OR OTHER DESIGN OR CONSTRUCTION PARAMETERS MUST BE DISCUSSED AND APPROVED BY THE REVIEWING AGENCY BEFORE ANY CONSTRUCTION CAN OCCUR.

INDEXING INFORMATION table with grid cells for NW 1/4, NE 1/4, SW 1/4, SE 1/4 and fields for SECTION (30), TOWNSHIP (24N), RANGE (06E), COUNTY (KING).

measure success logo

TOPOGRAPHIC & BOUNDARY SURVEY
PARCEL NO. 3024059010
BUTTENWIESER / WILEY RESIDENCE
6838 96TH AVE SE
MERCER ISLAND, WA 98040



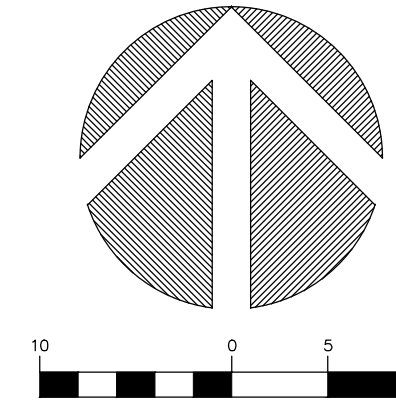
Terrane logo and contact information: 10801 Main Street, Suite 102, Bellevue, WA 98004, phone 425.458.4488, support@terrane.net, www.terrane.net

Table with project details: JOB NUMBER: 202552, DATE: 02/04/21, DRAFTED BY: TCC, CHECKED BY: EJC/TMM, SCALE: 1"=10', REVISION HISTORY table, SHEET NUMBER: 1 OF 3

# TOPOGRAPHIC & BOUNDARY SURVEY

## LEGEND

	AREA DRAIN		POWER POLE
	ASPHALT SURFACE		REBAR AS NOTED (FOUND)
	BRICK SURFACE		ROCKERY
	BUILDING		SEWER LINE
	CENTERLINE ROW		SEWER MANHOLE
	CLEANOUT		STORM DRAIN LINE
	CULVERT PIPE		TELEPHONE SENTRY
	CONCRETE SURFACE		TREE (AS NOTED)
	RETAINING WALL		WATER LINE
	DECK		WATER METER
	FENCE LINE (CHAIN LINK)		WATER VALVE
	FENCE LINE (WOOD)		HOSEBIB
	FIRE HYDRANT		YARD LIGHT
	GAS LINE		WETLAND AREA
	GAS METER		WETLAND FLAG
	GRAVEL SURFACE		TREE TAG REFERENCE
	CATCH BASIN (TYPE 1)		GEOTECH EXPLORATIONS (APPROXIMATE)
	HUB/TACK		
	NAIL AS NOTED		
	MONUMENT (SURFACE, FOUND)		
	POWER HAND HOLE		
	POWER METER		
	POWER (OVERHEAD)		



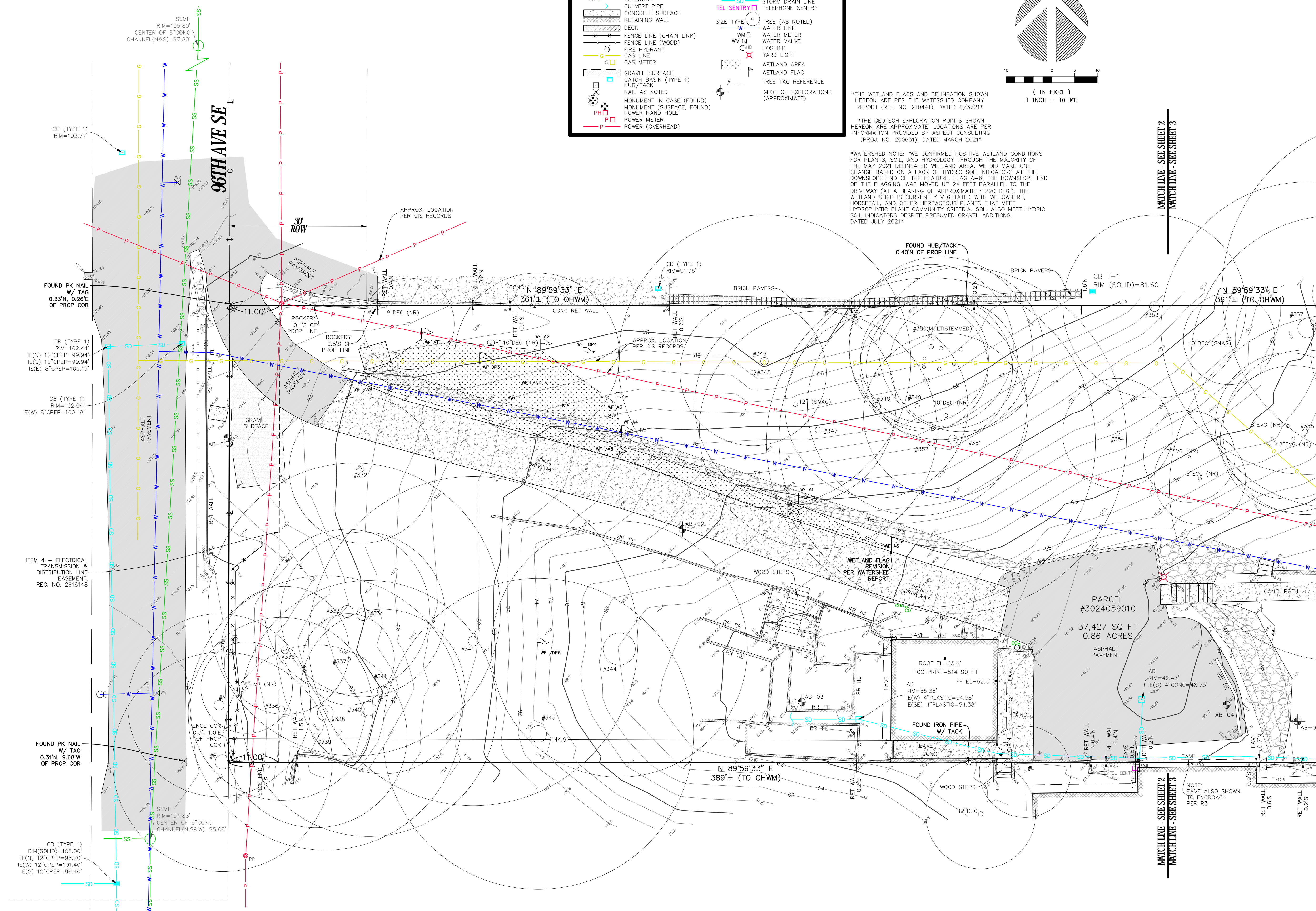
( IN FEET )  
1 INCH = 10 FT.

\*THE WETLAND FLAGS AND DELINEATION SHOWN HEREON ARE PER THE WATERSHED COMPANY REPORT (REF. NO. 210441), DATED 6/3/21\*

\*THE GEOTECH EXPLORATION POINTS SHOWN HEREON ARE APPROXIMATE. LOCATIONS ARE PER INFORMATION PROVIDED BY ASPECT CONSULTING (PROJ. NO. 200631), DATED MARCH 2021\*

\*WATERSHED NOTE: "WE CONFIRMED POSITIVE WETLAND CONDITIONS FOR PLANTS, SOIL, AND HYDROLOGY THROUGH THE MAJORITY OF THE MAY 2021 DELINEATED WETLAND AREA. WE DID MAKE ONE CHANGE BASED ON A LACK OF HYDRIC SOIL INDICATORS AT THE DOWNSLOPE END OF THE FEATURE. FLAG A-6, THE DOWNSLOPE END OF THE FLAGGING, WAS MOVED UP 24 FEET PARALLEL TO THE DRIVEWAY (AT A BEARING OF APPROXIMATELY 290 DEG.). THE WETLAND STRIP IS CURRENTLY VEGETATED WITH WILLOWHERB, HORSETAIL, AND OTHER HERBACEOUS PLANTS THAT MEET HYDROPHYTIC PLANT COMMUNITY CRITERIA. SOIL ALSO MEET HYDRIC SOIL INDICATORS DESPITE PRESUMED GRAVEL ADDITIONS. DATED JULY 2021"

MATCHLINE - SEE SHEET 2  
MATCHLINE - SEE SHEET 3



TOPOGRAPHIC & BOUNDARY SURVEY  
PARCEL NO. 3024059010

BUTTENWIESER / WILEY RESIDENCE

6838 96TH AVE SE  
MERCER ISLAND, WA 98040



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10801 Main Street, Suite 102, Bellevue, WA 98004  
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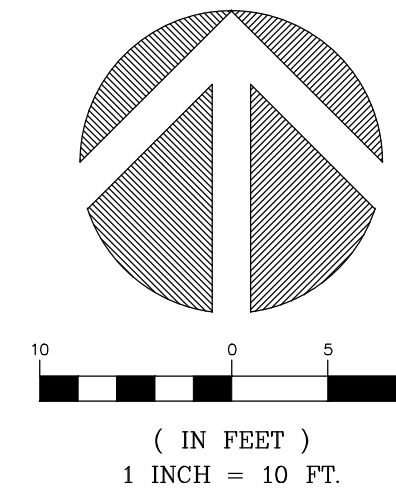
JOB NUMBER:	202552
DATE:	02/04/21
DRAFTED BY:	TCC
CHECKED BY:	EJC/IMI
SCALE:	1" = 10'
REVISION HISTORY	
7/19/21	ADDD TOPO
8/6/21	PER COMMENTS
SHEET NUMBER	
2 OF 3	

measure success

# TOPOGRAPHIC & BOUNDARY SURVEY

## LEGEND

	AREA DRAIN		POWER POLE
	ASPHALT SURFACE		REBAR AS NOTED (FOUND)
	BRICK SURFACE		ROCKERY
	BUILDING		SEWER LINE
	CENTERLINE ROW		SEWER MANHOLE
	CLEANOUT		STORM DRAIN LINE
	CULVERT PIPE		TELEPHONE SENTRY
	CONCRETE SURFACE		TREE (AS NOTED)
	RETAINING WALL		WATER LINE
	DECK		WATER METER
	FENCE LINE (CHAIN LINK)		WATER VALVE
	FENCE LINE (WOOD)		HOSEBIB
	FIRE HYDRANT		YARD LIGHT
	GAS LINE		WETLAND AREA
	GAS METER		WETLAND FLAG
	GRAVEL SURFACE		TREE TAG REFERENCE
	CATCH BASIN (TYPE 1)		GEOTECH EXPLORATIONS
	HUB/TACK		(APPROXIMATE)
	NAIL AS NOTED		
	MONUMENT (SURFACE, FOUND)		
	POWER HAND HOLE		
	POWER METER		
	POWER (OVERHEAD)		



## TREE INVENTORY

PER ARBOR REPORT  
BY: TREE SOLUTIONS INC.  
DATED: 5/07/21

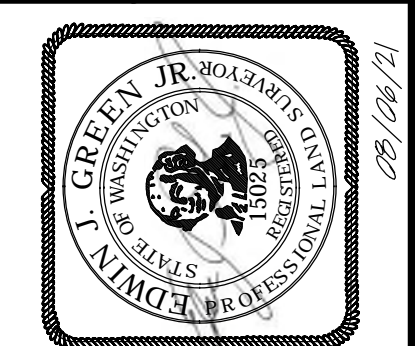
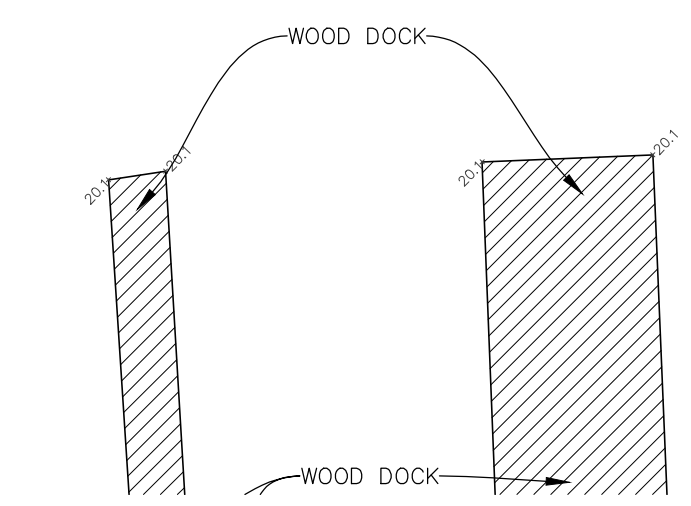
NUMBER	DIAMETER	TYPE/NAME
332	17" DBH	PRUNUS EMARGINATA-BITTER CHERRY
333	35" DBH	THUJA PLICATA-WESTERN REDCEDAR
334	28.7" DBH	THUJA PLICATA-WESTERN REDCEDAR
335	16.2" DBH	THUJA PLICATA-WESTERN REDCEDAR
336	13.7" DBH	ACER MACROPHYLLUM-BIGLEAF MAPLE
337	9.9" DBH	THUJA PLICATA-WESTERN REDCEDAR
338	41.7" DBH	PSEUDOTSUGA MENZIESII-DOUGLAS FIR
339	21.7" DBH	ACER MACROPHYLLUM-BIGLEAF MAPLE
340	32.0" DBH	PSEUDOTSUGA MENZIESII-DOUGLAS FIR
341	23.5" DBH	ACER MACROPHYLLUM-BIGLEAF MAPLE
342	19.3" DBH	ALNUS RUBRA-RED ALDER
343	42.2" DBH	THUJA PLICATA-WESTERN REDCEDAR
344	49.7" DBH	THUJA PLICATA-WESTERN REDCEDAR
345	12.6" DBH	ACER MACROPHYLLUM-BIGLEAF MAPLE
346	26.3" DBH	ACER MACROPHYLLUM-BIGLEAF MAPLE
347	23.5" DBH	ACER MACROPHYLLUM-BIGLEAF MAPLE
348	19.4" DBH	ACER MACROPHYLLUM-BIGLEAF MAPLE
349	18.4" DBH	ACER MACROPHYLLUM-BIGLEAF MAPLE
350	24.8" DBH	ACER MACROPHYLLUM-BIGLEAF MAPLE
351	21.7" DBH	ACER MACROPHYLLUM-BIGLEAF MAPLE
352	18.6" DBH	ACER MACROPHYLLUM-BIGLEAF MAPLE
353	20.0" DBH	PSEUDOTSUGA MENZIESII-DOUGLAS FIR
354	10.0" DBH	PSEUDOTSUGA MENZIESII-DOUGLAS FIR
355	15.2" DBH	PSEUDOTSUGA MENZIESII-DOUGLAS FIR
356	30.0" DBH	ACER MACROPHYLLUM-BIGLEAF MAPLE
357	55.5" DBH	THUJA PLICATA-WESTERN REDCEDAR
358	26.0" DBH	ACER MACROPHYLLUM-BIGLEAF MAPLE
359	12.0" DBH	LLEX AQUIFOLIUM-ENGLISH HOLLY
360	12.9" DBH	LLEX AQUIFOLIUM-ENGLISH HOLLY
361	15.4" DBH	CORYLUS CORNUTA-BEAKED HAZELNUT
362	31.0" DBH	CHAMAECYPARIS PISIFERA-SAWARA CYPRESS
363	8.0" DBH	MAGNOLIA X SOULANGIANA-SAUCCER MAGNOLIA
ACPA-NR	6.0" DBH	ACER PALMATUM-JAPANESE MAPLE
A	28.0" DBH	THUJA PLICATA-WESTERN REDCEDAR
B	32.0" DBH	THUJA PLICATA-WESTERN REDCEDAR
C	32.0" DBH	THUJA PLICATA-WESTERN REDCEDAR
D	14.0" DBH	THUJA PLICATA-WESTERN REDCEDAR
E	16.0" DBH	THUJA PLICATA-WESTERN REDCEDAR
F	15.0" DBH	THUJA PLICATA-WESTERN REDCEDAR
G	8.6" DBH	THUJA PLICATA-WESTERN REDCEDAR
H	5.5" DBH	THUJA PLICATA-WESTERN REDCEDAR
I	14.0" DBH	THUJA PLICATA-WESTERN REDCEDAR
J	12.0" DBH	CUPROCYPARIS LEYLANDI-LEYLAND CYPRESS
K	15.0" DBH	CUPROCYPARIS LEYLANDI-LEYLAND CYPRESS
L	5.0" DBH	ACER PALMATUM-JAPANESE MAPLE

(NR) NOT REGULATED - BELOW REGULATED SIZE

\*THE WETLAND FLAGS AND ORDINARY HIGH WATER DELINEATION SHOWN HEREON ARE PER THE WATERSHED COMPANY REPORT (REF. NO. 210441), DATED 6/3/21\*

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SCALE:	1" = 10'
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7/19/21	ADDTL TOPO
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measure success

TOPOGRAPHIC & BOUNDARY SURVEY  
PARCEL NO. 3024059010  
BUTTENWIESER / WILEY RESIDENCE  
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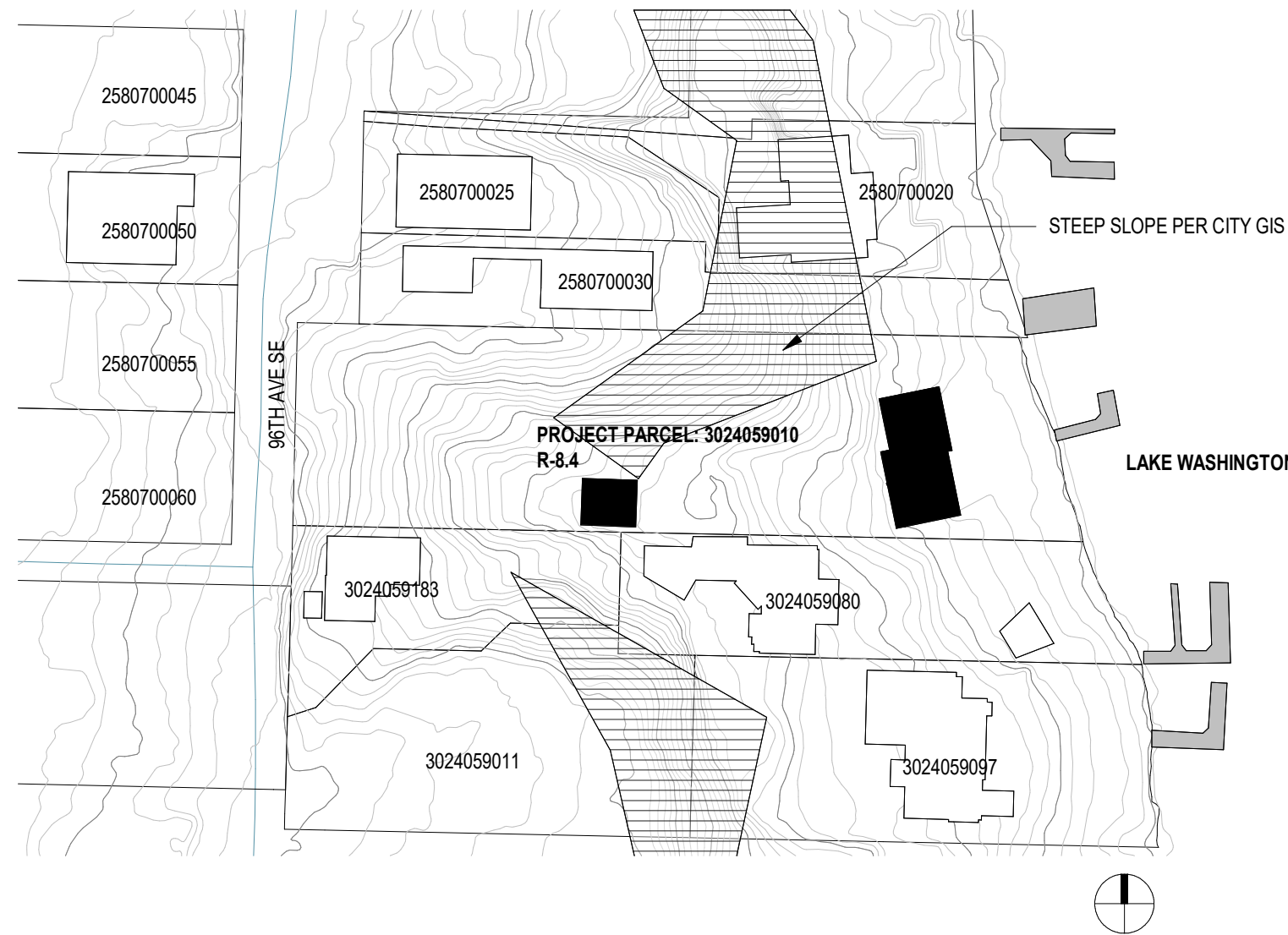


# MERCER ISLAND HOUSE: CASCADE

# 100% CONSTRUCTION DOCUMENTS

MERCER ISLAND, WA  
FEBRUARY 24, 2023

## VICINITY MAP - ADJACENT PARCELS



PROJECT INFORMATION	
TAX PARCEL NUMBER	302405-9010
JURISDICTION	CITY OF MERCER ISLAND
PERMIT NUMBER	LAND USE: CAO21-007, SHL21-042, SEP21-027 BUILDING PERMIT: 2205-199
LEGAL DESCRIPTION	SOUTH 100 FEET OF THE NORTH 400 FEET OF GOVERNMENT LOT 2, SECTION 30, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M. TOGETHER WITH SECOND CLASS SHORELANDS ADJOINING SAID PREMISES
YEAR BUILT:	1934
YEAR RENOVATED:	1970
APPLICABLE CODES:	2018 INTERNATIONAL BUILDING CODE (IBC) 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) 2018 INTERNATIONAL MECHANICAL CODE (IMC) 2018 INTERNATIONAL FUEL GAS CODE (IFGC) 2018 UNIFORM PLUMBING CODE (UPC) 2018 INTERNATIONAL FIRE CODE (IFC) 2018 INTERNATIONAL EXISTING BUILDING CODE 2018 INTERNATIONAL SWIMMING POOL AND SPA CODE 2018 WASHINGTON STATE ENERGY CODE (WSEC) ICC/ANSI A117-1-09, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, WITH STATEWIDE AND CITY AMENDMENTS
ZONE:	R-8.4 SINGLE FAMILY
LOT SIZE:	37427 SQUARE FEET PER SURVEY DATED 8/6/21
CRITICAL AREAS:	STEEP SLOPE PER SURVEY, LANDSCAPE HAZARDS, SEISMIC HAZARDS AND EROSION HAZARDS PER GEOTECH. WETLAND DELINEATION PER ECOLOGIST
ACCESS:	PRIVATE DRIVEWAY FROM 96TH AVE SE
EASEMENTS:	UTILITY EASEMENT: PUGET SOUND POWER AND LIGHT COMPANY, ELECTRIC TRANSMISSION AND DISTRIBUTION LINE, 11' FROM WEST PROPERTY LINE UTILITY EASEMENT: MERCER ISLAND SEWER DISTRICT, IN LAKE WASHINGTON
RECORDINGS	NOT AN ADJ AFFIDAVIT: 20220929000290 SITE SUBDIVISION COVENANT: 20221025000362
ADDITIONAL INFORMATION	ADDITIONAL CODE ANALYSIS AND PROJECT INFORMATION ON G100

## PROJECT DESCRIPTION

THE PROJECT SITE IS A WATERFRONT SITE ON THE SOUTHEAST SIDE OF MERCER ISLAND. THE SLOPED SITE RUNS PRIMARILY WEST-EAST, ACCESSED VIA 96TH AVENUE SE AND DESCENDS TO THE LAKE WASHINGTON SHORELINE. THREE STRUCTURES CURRENTLY OCCUPY THE SITE: A PRIMARY TWO-STORY RESIDENCE, A TWO-CAR GARAGE AND A SMALL POTTING SHED. THE HOUSE, GARAGE AND SHED ARE IN POOR STATE OF REPAIR AND WILL BE DEMOLISHED FOR THE CONSTRUCTION OF THE NEW RESIDENCE.

THERE ARE SEVERAL SENSITIVE AND ENVIRONMENTALLY CRITICAL AREAS ON THE SITE. THE ENTIRE PROPERTY IS CHARACTERIZED BY RELATIVE STEEPNESS AS THERE IS A FREQUENT CHANGE IN GRADE ACROSS THE FULL SPAN OF THE PARCEL. CITY OF MERCER ISLAND CRITICAL AREAS MAPPING INDICATES THAT THE CENTRAL REGION OF THE SITE IS A DESIGNATED STEEP SLOPE AREA AND NEARLY THE ENTIRE PROPERTY IS LOCATED IN A PROTECTED STEEP SLOPE AREA. IN ADDITION, THE WHOLE SITE IS MAPPED AS A LANDSLIDE HAZARDOUS AREA. OTHER ENVIRONMENTAL HAZARDS IDENTIFIED OVER THE ENTIRE SITE INCLUDE POTENTIAL SLIDE AND EROSION HAZARDOUS AREAS. THE EASTERN REGION OF THE PROPERTY IS LOCATED WITHIN A DESIGNATED SEISMIC HAZARDOUS AREA.

THE NEW RESIDENCE WILL BE A THREE-STORY STRUCTURE AND NEW DETACHED GARAGE. A MAJORITY OF THE PROPOSED FOOTPRINT IS LOCATED WITHIN THE EXISTING BUILDING PAD. THE FIRST TWO STORIES ARE LOCATED NEAR THE WATER, WITH THE THIRD STORY EXTENDING WEST TOWARD THE EXISTING PARKING PAD. THE THIRD STORY CONNECTS TO THE PARKING PAD WITH AN ELEVATED COVERED WALKWAY WHICH WILL ALLOW THE NEW RESIDENTS TO AGE-IN-PLACE AT THIS HOME.

A CENTRAL EXTERIOR STAIRWAY WILL CONNECT THE UPPER PARKING PAD TO THE WATERFRONT. LANDSCAPING FEATURES WILL BE INCLUDED THROUGHOUT.

## PROJECT TEAM

OWNER	ARCHITECT
JANET BUTTENWIESER & MATT WILEY 6838 96TH AVE SE MERCER ISLAND, WA 98040 TEL: 206.388.8558 CONTACT: MATT WILEY	THE MILLER HULL PARTNERSHIP, LLC 71 COLUMBIA STREET, 6TH FLOOR SEATTLE, WA 98104 TEL: 206.254.2022 CONTACT: APRIL NG
CIVIL ENGINEER	GENERAL CONTRACTOR
LPD ENGINEER PLLC 1932 1ST AVENUE, #201 SEATTLE, WA 98101 TEL: 206.725.1211 CONTACT: LAURIE PFARR	KREKOW JENNINGS INC 2011 E OLIVE STREET SEATTLE, WA 98122 TEL: 206.625.0505 CONTACT: BEN BLACK
LANDSCAPE ARCHITECT	STRUCTURAL ENGINEER
BERGER PARTNERSHIP 1927 POST ALLEY, #2 SEATTLE, WA 98101 TEL: 206.325.6877 CONTACT: SHANNON LESSIE	PCS STRUCTURAL SOLUTIONS 1011 WESTERN AVENUE, SUITE 810 SEATTLE, WA 98104 TEL: 206.292.5076 CONTACT: TED RYAN
GEOTECHNICAL ENGINEER	MECHANICAL ENGINEER
ASPECT CONSULTING LLC 710 2ND AVE, #550 SEATTLE, WA 98104 TEL: 206.413.5398 CONTACT: CHIP BARNETT	SAZAN GROUP 600 STEWART STREET, SUITE 1400 SEATTLE, WA 98104 TEL: 206.267.1700 CONTACT: TOM MARSEILLE
ARBORIST	ECOLOGIST
TREE SOLUTIONS INC. 2940 WESTLAKE AVE N, #200 SEATTLE, WA 98109 TEL: 206.528.4670 CONTACT: CONNOR MCDERMOTT	THE WATERSHED COMPANY 750 6TH STREET S KIRKLAND, WA 98033 TEL: 425.822.5242 CONTACT: NELL LUND
LIGHTING DESIGNER	ENVELOPE CONSULTANT
LIGHTING DESIGNS, INC 114 ALASKAN WAY SOUTH #602 SEATTLE, WA 98104 TEL: 206.293.2813 CONTACT: SIDNEY GENETTE	4EA BUILDING SCIENCE 12721 30TH AVENUE NE, 2ND FLOOR SEATTLE, WA 98125 TEL: 206.728.2358 CONTACT: JEFF SPEERT

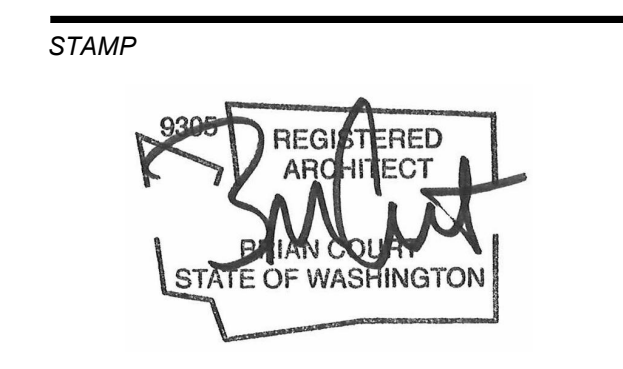
## SHEET INDEX

NO.	SHEET NAME
SURVEY	
SURVEY	SURVEY
GENERAL	
G000	SHEET INDEX & PROJ INFO
G100	SITE PLAN
G101	SITE PLAN
G102	SITE SECTIONS
G200	CODE DIAGRAMS
G201	CODE DIAGRAMS
CIVIL	
C100	TESC AND DEMOLITION PLAN
C101A	TREE RETENTION PLAN A - REMOVAL
C101B	TREE RETENTION PLAN B - PROPOSED
C102	TESC DETAILS
C200A	GRADING PLAN
C200B	DRAINAGE PLAN
C300	UTILITIES & PAVING PLAN
C400	DETAILS
C401	DETAILS
C402	DETAILS
LANDSCAPE	
L100	COMPOSITE SITE PLAN
L101	LAYOUT & MATERIAL PLAN
L102	LANDSCAPE ENLARGEMENTS
L103	LANDSCAPE ENLARGEMENTS
L104	ROOF LAYOUT & MATERIAL PLAN & DETAILS
L301	SITE SECTIONS
L302	SITE SECTIONS
L401	SITE DETAILS - PAVING & STAIRS
L402	SITE DETAILS - SPINE / RUNNEL
L403	SITE DETAILS - SPINE / RUNNEL
L404	SITE DETAILS - SPINE / RUNNEL
L405	SITE DETAILS
L406	SITE DETAILS
L407	SITE DETAILS - ECA WALL
L408	SITE DETAILS - ECA WALL
L601	PLANTING PLAN
L602	ROOF PLANTING PLAN & DETAILS
L603	PLANTING SCHEDULE

NO.	SHEET NAME
L604	PLANTING DETAILS
L605	PLANTING SCHEDULE, DETAILS & NOTES
ARCHITECTURAL	
A001	LEGENDS, NOTES & ABBREVIATIONS
A010	ASSEMBLIES
A030	DOORS, LOUVERS & FINISH LEGEND
A050	FRAME ELEVATIONS
A111	LEVEL 1 - FLOOR PLAN
A113	LEVEL 1 - REFLECTED CEILING PLAN
A121	LEVEL 2 - FLOOR PLAN
A123	LEVEL 2 - REFLECTED CEILING PLAN
A131	LEVEL 3 - FLOOR PLAN
A133	LEVEL 3 - REFLECTED CEILING PLAN
A141	ROOF PLAN
A151	GARAGE PLANS
A152	GARAGE ELEVATIONS, SECTIONS
A161	COVERED WALKWAY PLANS
A162	COVERED WALKWAY ELEV. SECTIONS
A171	SHED PLANS, ELEV. SECTION
A201	BUILDING ELEVATIONS
A202	BUILDING ELEVATIONS
A203	BUILDING ELEVATIONS
A301	BUILDING ELEVATIONS / SECTIONS
A302	BUILDING SECTIONS
A303	BUILDING SECTIONS
A350	FENCE ELEVATIONS
A410	VERTICAL TRANSPORTATION
A411	VERTICAL TRANSPORTATION
A412	VERTICAL TRANSPORTATION
STRUCTURAL	
S000	COVER SHEET
S001	GENERAL NOTES
S002	GENERAL NOTES
S003	GENERAL NOTES
S004	GENERAL NOTES
S005	GENERAL NOTES
S110	PLAN NOTES
S111a	PILE PLAN
S111b	PILE PLAN
S112	LEVEL 1 - FOUNDATION PLAN

NO.	SHEET NAME
S121	LEVEL 2 - FLOOR FRAMING PLAN
S121P	LEVEL 2 - FLOOR FRAMING PENETRATION PLAN
S131	LEVEL 3 - FLOOR FRAMING PLAN
S131P	LEVEL 3 - FLOOR FRAMING PENETRATION PLAN
S141	ROOF - FRAMING PLAN
S151	GARAGE AND SHED PLANS
S161	COVERED WALKWAY PLANS
S301	SLAB-ON-GRADE DETAILS
S302	FOUNDATION DETAILS
S303	FOUNDATION DETAILS
S304	FOUNDATION DETAILS
S305	FOUNDATION DETAILS
S400	SOLDIER PILE WALL PLAN
S401	SHORING WALL ELEVATIONS
S402	SHORING WALL ELEVATIONS
S403	SHORING DETAILS
S410	TEMPORARY SHORING WALL PLANS & ELEVATIONS
S411	TEMPORARY SHORING WALL DETAILS
S501	STEEL FRAMING DETAILS
S701	WOOD FRAMING DETAILS
S702	WOOD FRAMING DETAILS
S703	WOOD FRAMING DETAILS
S704	WOOD FRAMING DETAILS
S705	WOOD FRAMING DETAILS
S706	WOOD FRAMING DETAILS
S707	WOOD FRAMING DETAILS
S708	WOOD FRAMING DETAILS
S709	WOOD FRAMING DETAILS
S710	WOOD FRAMING DETAILS
102	

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# MERCER ISLAND HOUSE: CASCADE

6838 96TH AVE SE  
MERCER ISLAND, WA 98040

# 100% CONSTRUCTION DOCUMENTS

FEBRUARY 24, 2023

REVISIONS

No.	Description	Date
1	Building Permit Resubmittal 1	10/27/22
2	Building Permit Resubmittal 2	1/6/23
3	Building Permit Resubmittal 3	2/24/23

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Checked: AN  
MJH Proj No.: A20.0085.00  
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# SHEET INDEX & PROJ INFO G000

**ENERGY CODE NOTES**

CLIMATE ZONE	4C KING
ENVELOPE PROVISIONS	PRESCRIPTIVE REFER TO ASSEMBLIES SHEET A010 FOR U-FACTORS AND R-VALUES REFER TO FRAME ELEVATIONS SHEET A050 FOR U-FACTORS FOR FENESTRATION SYSTEMS
TABLE 402.1.1 CLIMATE ZONE 5 AND MARINE 4	PROVIDE THESE PERFORMANCE VALUES AT A MINIMUM: FENESTRATION U-0.30 SKYLIGHT U-0.50 CEILING R-49 WOOD FRAME WALL 21 INT FLOOR R-30 BELOW GRADE WALL 10/15/21 int + 5TB SLAB R-VALUE & DEPTH 10, 2FT
CERTIFICATE R401.3	A PERMANENT CERTIFICATE SHALL BE COMPLETED BY THE BUILDER OR OTHER APPROVED PARTY AND POSTED ON A WALL IN THE MECHANICAL ROOM. CERTIFICATE INFO TO INCLUDE: R-VALUES OF ALL INSULATION U-FACTORS AND SHGC FOR FENESTRATION BUILDING AIR LEAKAGE TESTING WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FLOW RATE TEST
AIR BARRIER R402.4.1.1	A CONTINUOUS AIR BARRIER SHALL BE INSTALLED IN THE BUILDING ENVELOPE. BREAKS OR JOINTS IN THE AIR BARRIER SHALL BE SEALED. THE BUILDING SHALL BE TESTED AND VERIFIED AS HAVING AN AIR LEAKAGE RATE OF NOT EXCEEDING 2 AIR CHANGES PER HOUR AT 50 PASCALS.
TESTING R403.2.2	PROVIDE THE FOLLOWING TESTING REPORTS DUCT LEAKAGE TESTING (R403.2.2) POST CONSTRUCTION TEST (R403.2.2.1) ROUGH-IN TEST (R403.2.2.3)
LIGHTING REQUIREMENT R404.1	A MINIMUM OF 90% OF PERMANENTLY INSTALLED LAMPS IN LIGHTING FIXTURES SHALL BE LED.
ENERGY CREDITS R406.3	MEDIUM DWELLING UNIT: 6 CREDITS 1.0 FUEL NORMALIZATION CREDIT - SYSTEM TYPE 2 HEAT PUMP 1.0 AIR LEAKAGE CONTROL AND VENTILATION OPTION 2.2 TESTED AIR LEAKAGE 2.0 ACH/50 HEAT RECOVERY VENTILATION SYSTEM WITH MINIMUM SENSIBLE HEAT RECOVER EFFICIENCY OF 0.65 0.5 HIGH EFFICIENCY HVAC DISTRIBUTION SYSTEM OPTION 4.1 ALL DUCTS, AIR HANDLERS LOCATED IN CONDITIONED SPACE DUCT LEAKAGE SHALL BE LIMITED TO 3 CFM PER 100 SQUARE FEET OF CONDITIONED FLOOR AREA 1.5 EFFICIENT WATER HEATING OPTION 5.4 ELECTRIC HEAT PUMP WATER HEATER MEETING THE STANDARDS FOR TIER 1 OF NEEA'S ADVANCED WATER HEATING SPECIFICATION 3.0 RENEWABLE ELECTRIC ENERGY OPTION 6.1 1,200 KWH PER ENERGY CREDIT MORE THAN 3,600 KWH PROVIDED REFERENCE SOLAR ANALYSIS 7 TOTAL ENERGY CREDITS

**MECHANICAL DESIGN CRITERIA**

MEP BASIS OF DESIGN	REFERENCE THE MECHANICAL, ELECTRICAL, PLUMBING BASIS OF DESIGN DOCUMENT FOR ADDITIONAL DESIGN CRITERIA AND REQUIREMENTS.
OUTDOOR DESIGN CONDITIONS	SUMMER... 83.0 DEGREES FARENHEIGHT DB WINTER... 24.0 DEGREES FARENHEIGHT DB
INDOOR DESIGN CONDITIONS	INTERIOR SPACES ARE DESIGNED TO MAINTAIN THE FOLLOWING INTERIOR DESIGN CONDITIONS: SUMMER 75 DEGREES FARENHEIGHT MINIMUM (BEDROOMS WITH FULL AIR CONDITION) WINTER 72 DEGREES FARENHEIGHT MAXIMUM (ALL SPACES)
VENTILATION CRITERIA	ALL OCCUPIED SPACES TO BE PROVIDED WITH VENTILATION AND EXHAUST IN ACCORDANCE WITH CHAPTER 51-51 WAC (2018 INTERNATIONAL RESIDENTIAL CODE, EFFECTIVE JULY 1, 2020). WHOLE HOUSE MECHANICAL VENTILATION SHALL BE DESIGNED ASSUMING CONTINUOUS OPERATION.
AIRSIDE SIZING CRITERIA	HVAC DUCT AND AIR REGISTER SIZING WILL BE BASED ON BEST PRACTICES PRESCRIBED BY ASHRAE AND TO MEET SPECIFIED NOISE CRITERIA PROVIDED BELOW: AIR INTAKE LOUVERS (WHERE REQUIRED) MAX VELOCITY: 500 FPM (NET FREE AREA) MAX PRESSURE DROP: > 0.1 IN W.G. EXHAUST LOUVERS MAX VELOCITY: 500 FPM (NET FREE AREA) MAX PRESSURE DROP: > 0.1 IN W.G.
INSULATION CRITERIA	PROJECT WILL COMPLY WITH SECTION R403 OF WSEC 2018 INCLUDING: HEATING PIPING: MIN R-6 SERVICE HOT WATER PIPING: MIN R-3 SERVICE HOT WATER HEATER: PLACED ON AN INCOMPRESSIBLE, INSULATED SURFACE WITH A MINIMUM THERMAL RESISTANCE OF R-10 DUCTS OUTSIDE THERMAL ENVELOPE: MIN R-8
DUCT AND AIR HANDLER...	DUCTS AND AIR HANDLERS TO BE SEALED TO COMPLY WITH SECTION R403.3.2 DUCT LEAK TESTING EXCEPTION (R403.3.3) TO BE TAKEN GIVEN SYSTEMS ARE ENTIRELY INDOORS (EXCEPTION 1) AND/OR HRVS (EXCEPTION 2)
<b>FIRE PROTECTION</b>	
FIRE AREA SQUARE FOOTAGE CALCULATION	LEVEL 1 1046 SF LEVEL 2 1829 SF LEVEL 3 1135 SF COVERED PATIO 4635
FIRE ACCESS	EXISTING DRIVEWAY DOES NOT MEET FIRE ACCESS REQUIREMENT. CODE ALTERNATES WILL NEED TO BE PURSUED.
FIRE FLOW (HYDRANTS) IFC APPENDIX B	HYDRANT FLOW REQUIRED FOR 4801 - 6,200 SF REQUIRES 2000 GPM WITH 50% CREDIT DUE TO A FIRE SPRINKLER SYSTEM. NEAREST HYDRANT: HS-36 1025 GMP AT 72 PSI DISTANCE FROM HYDRANT TO REAR OF HOUSE: 497' DISTANCE FROM HYDRANT TO ACCESS: 87'/DRIVEWAY, 302' TO GARAGE
SPRINKLERS	ALL NEW CONSTRUCTION IS REQUIRED TO INSTALL A MINIMUM OF A NFPA 13D FIRE SPRINKLER SYSTEM PROPOSED: NFPA 13R
FIRE ALARM SYSTEMS R314.3	HOUSEHOLD FIRE ALARM SYSTEM TO BE INSTALLED PER NFPA 72 CHAPTER 29. SMOKE ALARMS SHALL BE INSTALLED AS FOLLOWS: IN ALL SLEEPING ROOMS OUTSIDE OF EACH SLEEPING AREA ON EVERY LEVEL OF A DWELLING UNIT CARBON MONOXIDE ALARMS ARE NOT PROVIDED. NO FUEL-FIRED APPLIANCES OR ATTACHED GARAGE
FIRE ALTERNATES	ALL GYPSUM BOARD WILL BE 1-HOUR RATED. ALL SOLID WOOD DOORS WILL BE SOLID CORE. FDC CONNECTION WILL BE PROVIDED AT GARAGE AND LAKESIDE AS REQUIRED BY FIRE MARSHAL

**ZONING CODE ANALYSIS**

SECTION	EXISTING / REQUIRED	PROPOSED	COMPLIES	SHEET
ZONING	R-8.4 - SINGLE-FAMILY	R-8.4	YES	G000
CONSTRUCTION TYPE	RESIDENTIAL - TYPE VA	TYPE VA	YES	G100
LOT SIZE	37,427 SF HIGHEST ELEVATION POINT: 102.25' LOWEST ELEVATION POINT: 18.46' ELEVATION DIFFERENCE: 83.79' HORIZONTAL DIFFERENCE BETWEEN HIGH AND LOW POINTS: 355.66'			SURVEY
YARD REQUIREMENTS MICC 19.02.020.C	LOT SLOPE: 83.69' / 355.66' = 24% FRONT YARD SETBACK: 20' COMBINED SIDE YARD SETBACK: 17' MIN. SIDE YARD SETBACK: 5.61' VARIABLE SIDE YARD SETBACKS: 7'-6" IF HEIGHT GREATER THAN 15' 10'-0" IF HEIGHT GREATER THAN 25' REAR YARD SETBACK: PER SHORELINE		YES YES YES YES YES YES	2/G200 G101
GROSS FLOOR AREA MICC 19.02.020.D	MAX GFA: 5,000 SF ALLOWED 4,409 SF EXISTING	4,943 SF (13% OF LOT AREA)	YES	G201
BUILDING HEIGHT LIMIT MICC 19.02.020.E	30' MAXIMUM HEIGHT ABOVE AVERAGE BUILDING ELEVATION TO THE HIGHEST POINT OF THE ROOF	ABE: 30' - 4" ABE + 30': 60' - 4" TOP OF BUILDING: 59'-10"	YES	G200 A202
LOT COVERAGE MICC 19.02.020.F	13,099 SF ALLOWED (35% OF LOT AREA) 7,185 SF EXISTING (19%)	8,499 SF (23%)	YES	G200
MAX HARDSCAPE	7,969 SF ALLOWED (9% + 12% UNUSED LOT COVERAGE) 2,976 SF EXISTING (8%)	3,791 SF (10%)	YES	G200
LANDSCAPING	24,327 SF (65%) REQUIRED LANDSCAPING AREA 26,974 SF EXISTING (72%)	24,976 SF (67%)	YES	G200
PARKING MICC 19.02.020.G	3 PARKING SPACES REQUIRED, AT LEAST 2 SHALL BE COVERED	4 PARKING SPACES: 2 ARE COVERED	YES	G101

**GENERAL SITE PLAN NOTES**

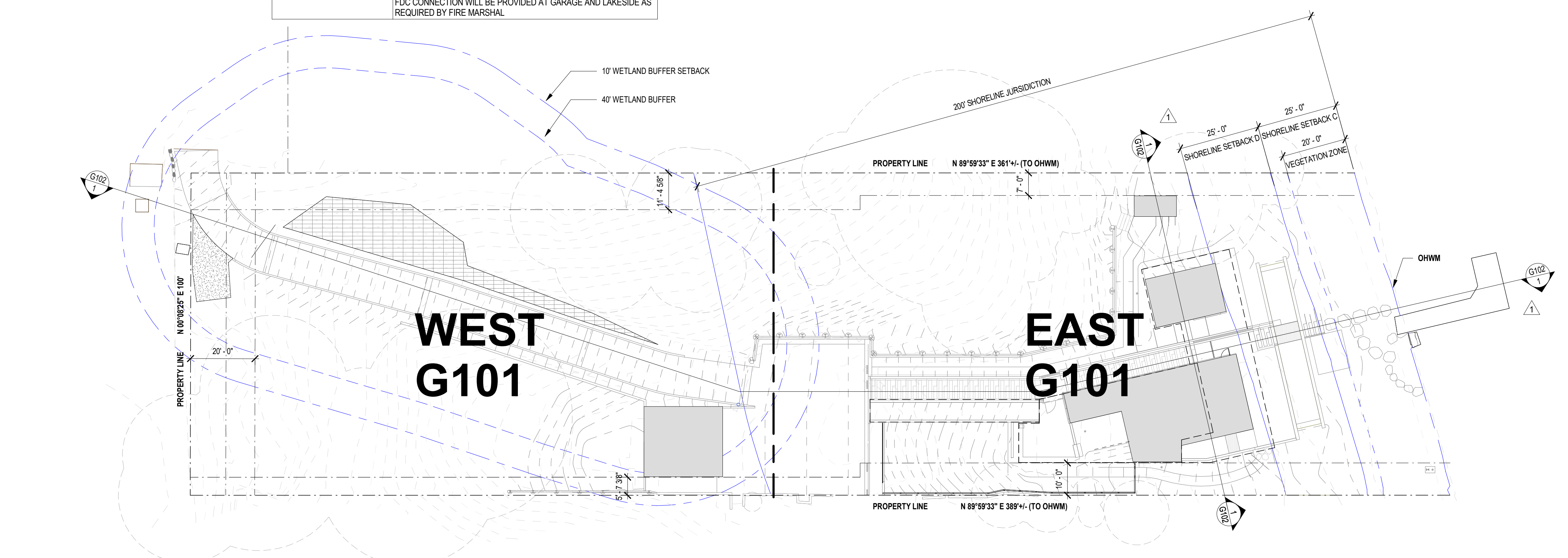
- REFER TO CRITICAL AREA STUDY, GEOTECHNICAL REPORT AND ARBORIST REPORT FOR WORK WITHIN ASSOCIATED ENVIRONMENTALLY CRITICAL AREAS.
- REFER TO CIVIL DRAWINGS FOR TESC, TREE, UTILITIES AND GRADING PLANS.
- REFER TO LANDSCAPE DRAWINGS FOR PROPOSED TREES AND SHRUBS.

**SITE PLAN LEGEND**

- EXISTING BUILDING TO BE REMOVED
- PROPOSED BUILDING FOOTPRINT
- PROPOSED BUILDING OVERHANG
- PROPOSED CONCRETE DRIVEWAY OR PATHWAY
- WETLAND DELINEATION, REFERENCE CRITICAL AREAS STUDY
- EXISTING TREES, REFERENCE ARBORIST REPORT AND CIVIL TREE PLAN
- DRIFLINE
- RLOD (RECOMMENDED LIMITS OF DISTURBANCE)
- EXISTING CONTOUR, SHOWN AT 1' INTERVALS, REFERENCE CIVIL DRAWINGS
- PROPOSED CONTOUR, SHOWN AT 1' INTERVALS, REFERENCE CIVIL DRAWINGS
- PROPERTY LINE

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DANIEL J. HULL  
DANIEL HULL ARCHITECT  
STATE OF WASHINGTON



**1 COMPOSITE SITE PLAN**  
G100 1" = 20'-0"



**MERCER ISLAND HOUSE: CASCADE**

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MERCER ISLAND, WA 98040  
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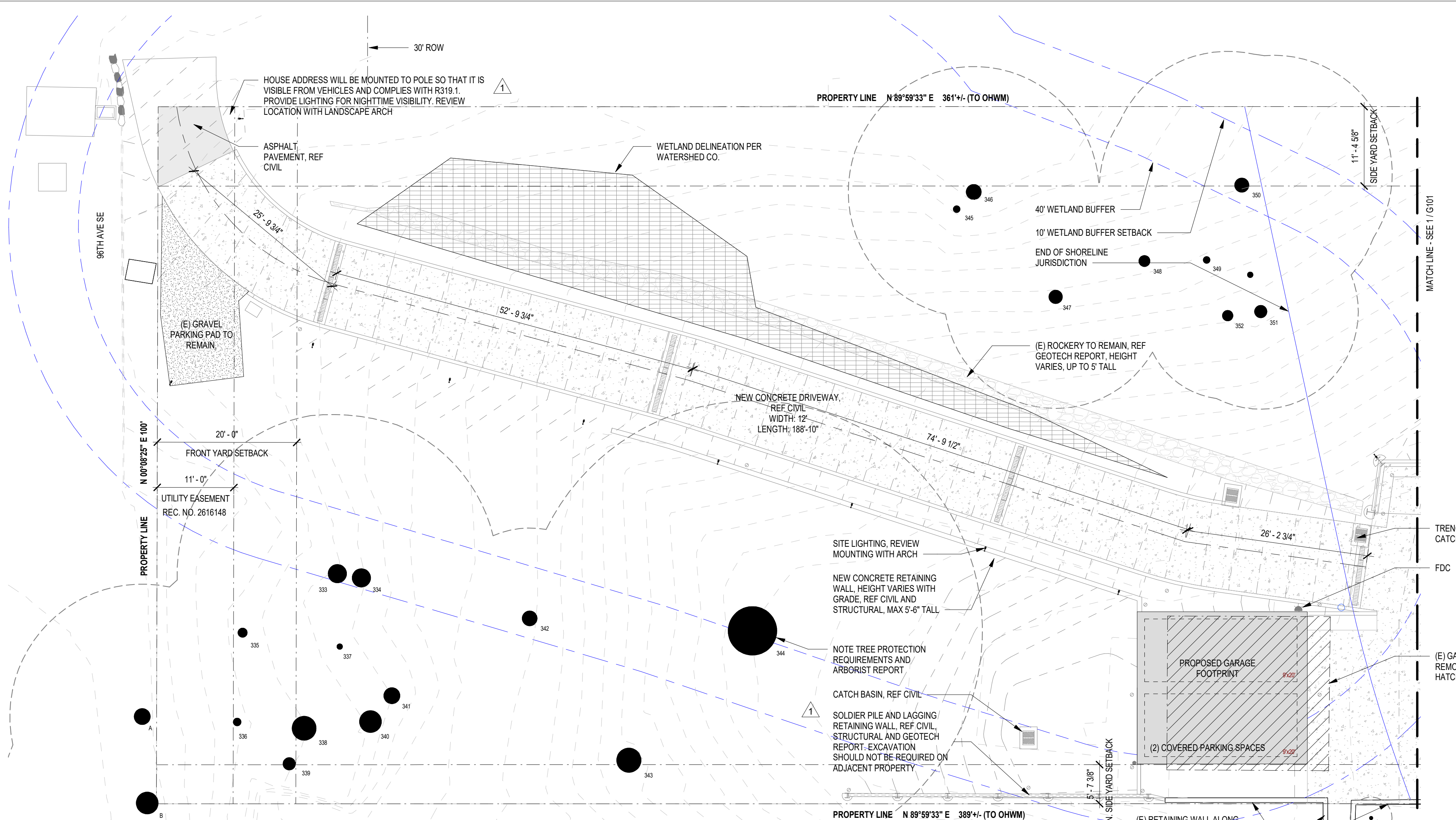
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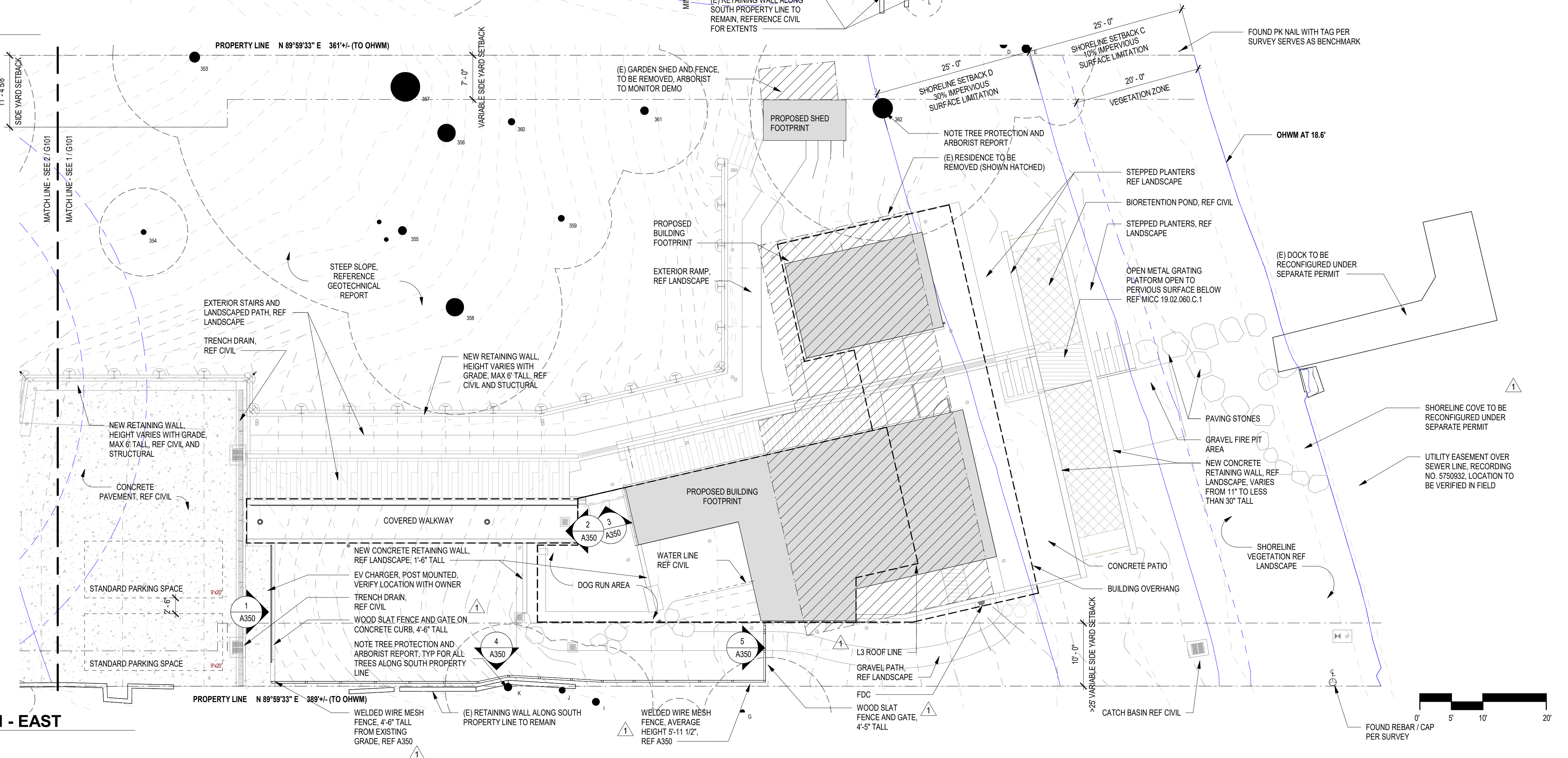
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**SITE PLAN G100**



**2 SITE PLAN - WEST**  
G101 1" = 10'-0"

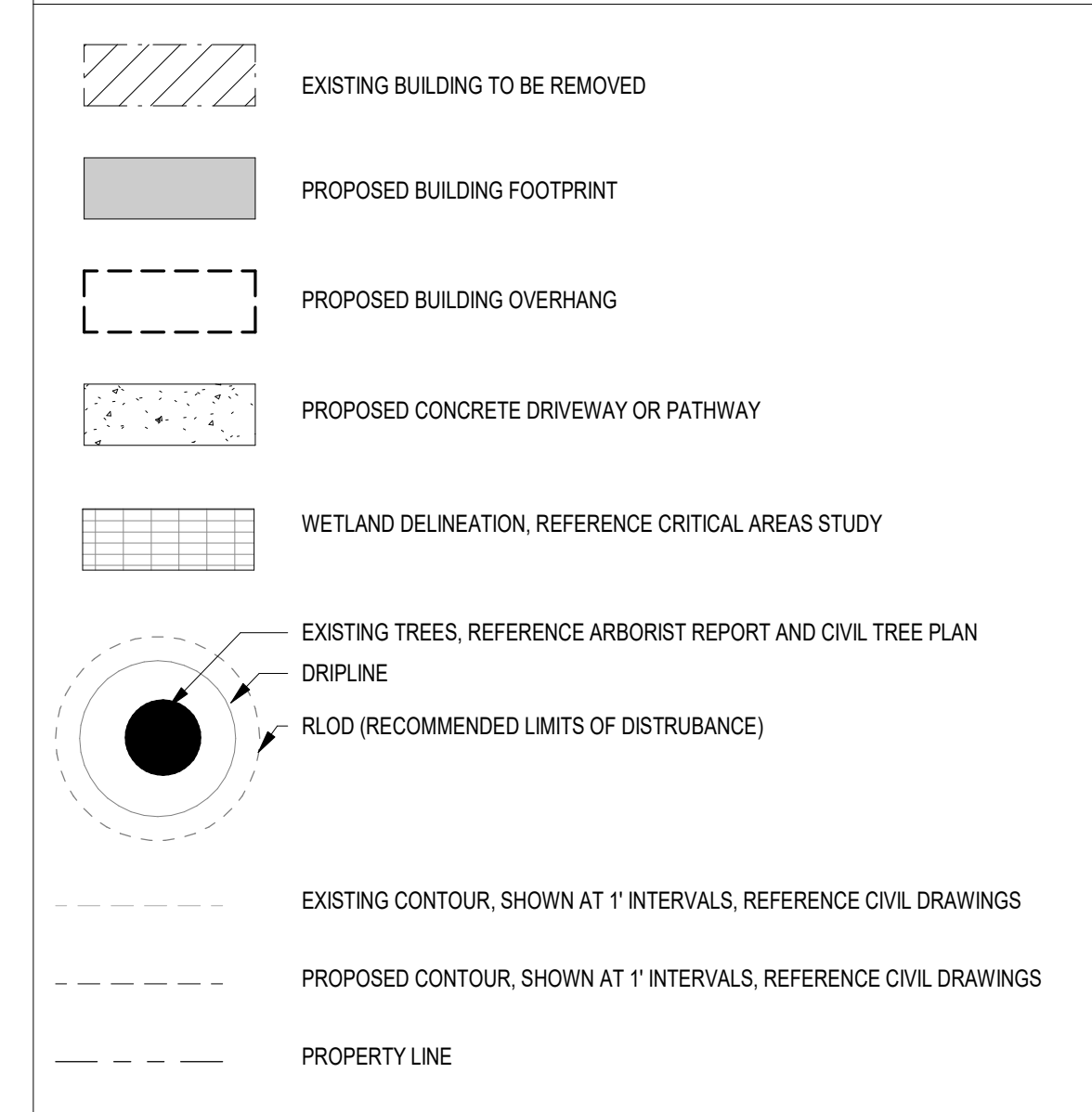


**1 SITE PLAN - EAST**  
G101 1" = 10'-0"

**GENERAL SITE PLAN NOTES**

- REFER TO CRITICAL AREA STUDY, GEOTECHNICAL REPORT AND ARBORIST REPORT FOR WORK WITHIN ASSOCIATED ENVIRONMENTALLY CRITICAL AREAS.
- REFER TO CIVIL DRAWINGS FOR TESC, TREE, UTILITIES AND GRADING PLANS.
- REFER TO LANDSCAPE DRAWINGS FOR PROPOSED TREES AND SHRUBS.

**SITE PLAN LEGEND**



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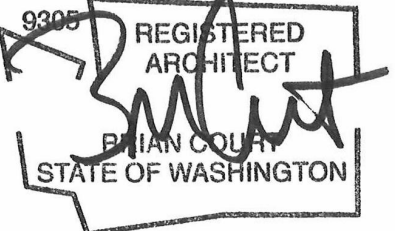
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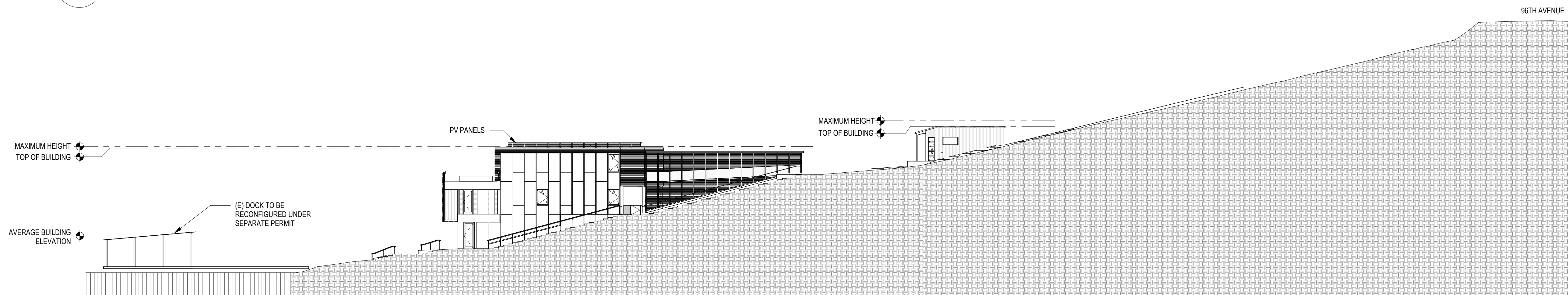
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SHEET  
**SITE PLAN G101**

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**2** SITE SECTION - NORTH / SOUTH  
 G102 1" = 20'-0"



**1** SITE SECTION - EAST / WEST  
 G102 1" = 20'-0"

**MERCER ISLAND HOUSE: CASCADE**

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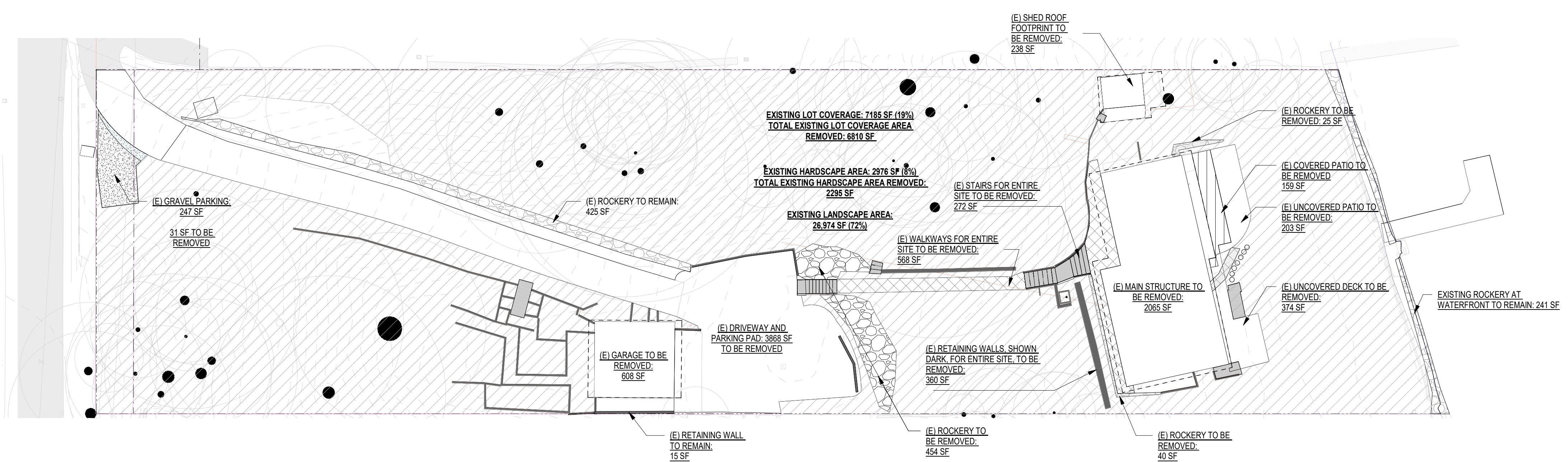
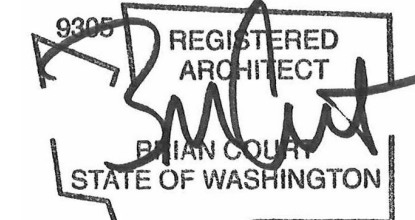
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SHEET



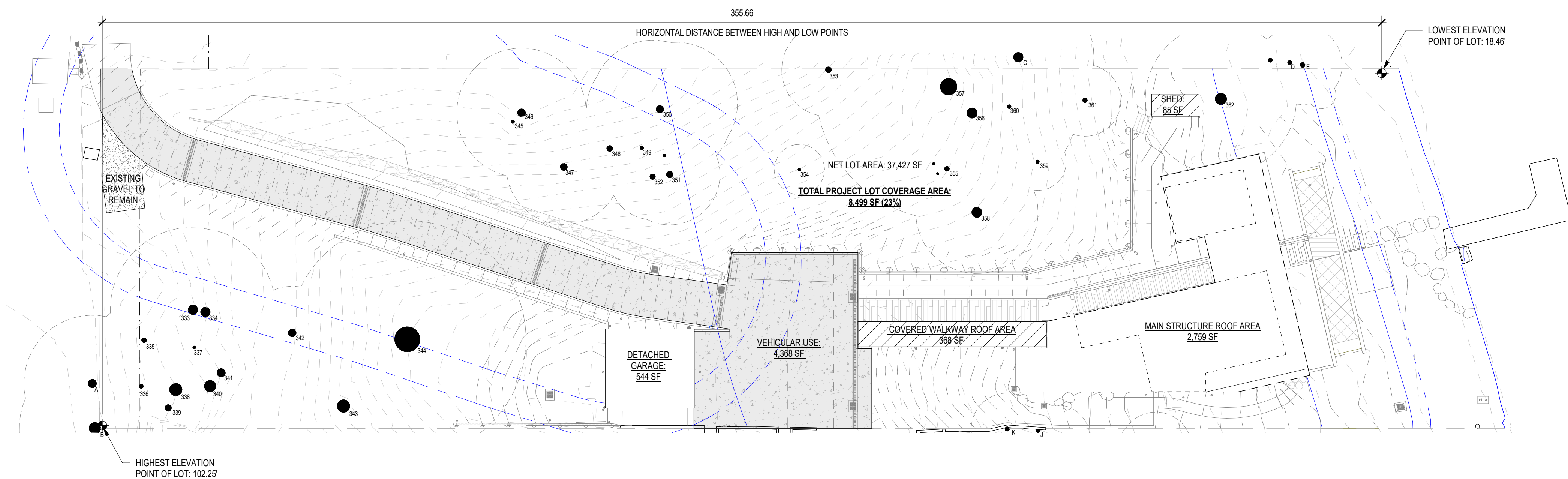
**SITE SECTIONS G102**

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**3 SITE PLAN DIAGRAM - EXISTING SITE**

G200 1" = 20'-0"

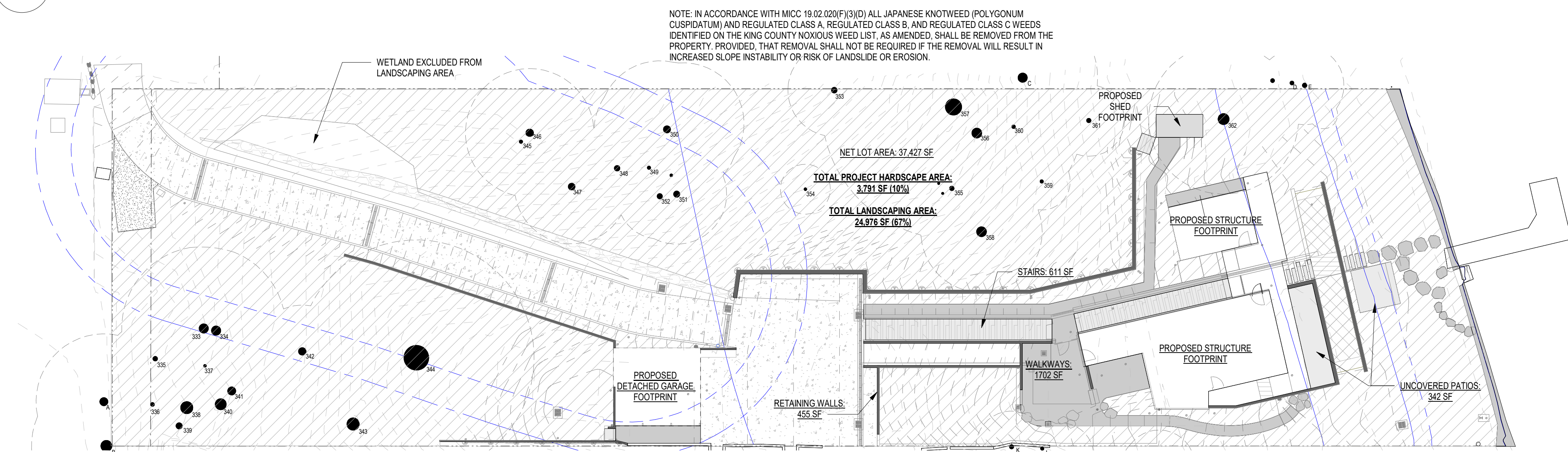


**2 SITE PLAN DIAGRAM - LOT COVERAGE CALCULATIONS**

G200 1" = 20'-0"

LOT COVERAGE CALCULATIONS	
GROSS LOT AREA	37,427 SQUARE FEET
NET LOT AREA	37,427 SQUARE FEET
ALLOWED LOT COVERAGE AREA	13,099 SQUARE FEET
ALLOWED LOT COVERAGE	35 % OF LOT
EXISTING LOT COVERAGE	
MAIN STRUCTURE ROOF AREA	2,065 SQUARE FEET
ACCESSORY BUILDING ROOF AREA	846 SQUARE FEET
VEHICULAR USE	4,115 SQUARE FEET
COVERED PATIOS AND DECK	159 SQUARE FEET
TOTAL EXISTING LOT COVERAGE AREA	7,185 SQUARE FEET
EXISTING LOT COVERAGE AREA REMOVED	
MAIN STRUCTURE ROOF AREA	2,065 SQUARE FEET
ACCESSORY BUILDING ROOF AREA	846 SQUARE FEET
VEHICULAR USE (DRIVEWAY, PARKING PAD AND PORTION OF GRAVEL PARKING)	3899 SQUARE FEET
TOTAL EXISTING LOT COVERAGE AREA TO BE REMOVED	6,810 SQUARE FEET
PROPOSED ADJUSTMENT FOR SINGLE STORY AREA	0
PROPOSED ADJUSTMENT FOR FLAG LOT	0
PROPOSED NEW LOT COVERAGE	
MAIN STRUCTURE ROOF AREA	2,759 SQUARE FEET
GARAGE ROOF AREA	544 SQUARE FEET
SHED ROOF AREA	85 SQUARE FEET
COVERED WALKWAY ROOF AREA	368 SQUARE FEET
VEHICULAR USE	4,368 SQUARE FEET
TOTAL PROPOSED LOT COVERAGE	8,124 SQUARE FEET
TOTAL PROJECT LOT COVERAGE	8,499 SQUARE FEET
PROPOSED LOT COVERAGE	23%

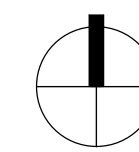
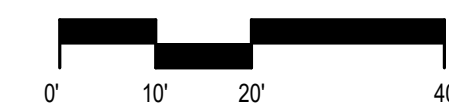
HARDSCAPE CALCULATIONS	
GROSS LOT AREA	37,427 SQUARE FEET
NET LOT AREA	37,427 SQUARE FEET
AREA BORROWED FROM LOT COVERAGE	4,601 SQUARE FEET
35% ALLOWED - 23% PROPOSED = 12%	
ALLOWED HARDSCAPE AREA	7,969
9% OF LOT AREA + 12%	21% OF LOT
ALLOWED HARDSCAPE AREA	7,969
EXISTING HARDSCAPE AREA	
UNCOVERED DECKS	374 SQUARE FEET
UNCOVERED PATIOS	203 SQUARE FEET
WALKWAYS	568 SQUARE FEET
STAIRS	272 SQUARE FEET
ROCKERIES AND RETAINING WALLS	1,560 SQUARE FEET
TOTAL EXISTING HARDSCAPE AREA	2,976 SQUARE FEET
TOTAL HARDSCAPE AREA REMOVED	2,295 SQUARE FEET
PROPOSED NEW HARDSCAPE AREA	
UNCOVERED DECKS	SQUARE FEET
UNCOVERED PATIOS	342 SQUARE FEET
WALKWAYS	1,702 SQUARE FEET
STAIRS	611
ROCKERIES AND RETAINING WALLS	455
TOTAL PROPOSED NEW HARDSCAPE AREA	3,110 SQUARE FEET
TOTAL PROJECT HARDSCAPE AREA	3,791
PROPOSED HARDSCAPE AREA	10%



**1 SITE PLAN DIAGRAM - LANDSCAPE / HARDSCAPE CALCULATIONS**

G200 1" = 20'-0"

NOTE: IN ACCORDANCE WITH MICC 19.02.020(F)(3)(D) ALL JAPANESE KNOTWEED (POLYGONUM CUSPIDATUM) AND REGULATED CLASS A, REGULATED CLASS B, AND REGULATED CLASS C WEEDS IDENTIFIED ON THE KING COUNTY NOXIOUS WEED LIST, AS AMENDED, SHALL BE REMOVED FROM THE PROPERTY, PROVIDED, THAT REMOVAL SHALL NOT BE REQUIRED IF THE REMOVAL WILL RESULT IN INCREASED SLOPE INSTABILITY OR RISK OF LANDSLIDE OR EROSION.



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**CODE DIAGRAMS G200**



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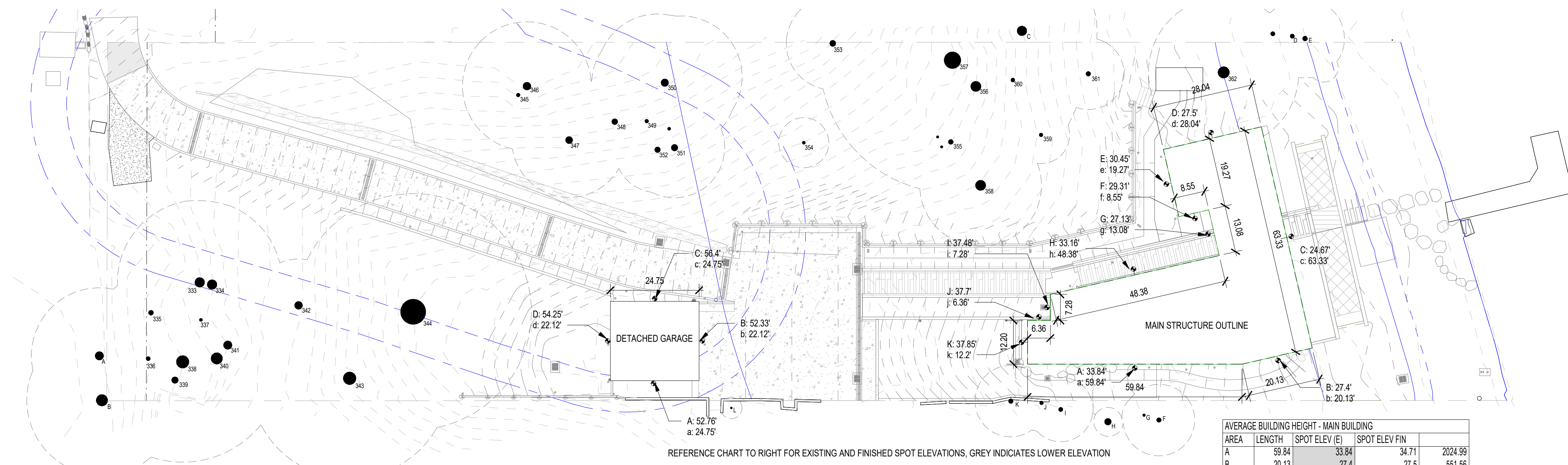
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**CODE DIAGRAMS G201**



REFERENCE CHART TO RIGHT FOR EXISTING AND FINISHED SPOT ELEVATIONS, GREY INDICATES LOWER ELEVATION

$$\frac{(A \times a) + (B \times b) + (C \times c) + (D \times d) + (E \times e) + (F \times f) + (G \times g) + (H \times h) + (I \times i) + (J \times j) + (K \times k)}{(a + b + c + d + e + f + g + h + i + j + k)}$$

$$\frac{(33.84 \times 59.84) + (27.4 \times 20.13) + (24.67 \times 63.33) + (27.5 \times 28.04) + (30.45 \times 19.27) + (29.31 \times 8.55) + (27.13 \times 13.08) + (33.16 \times 48.38) + (37.48 \times 7.28) + (37.7 \times 6.36) + (37.85 \times 12.2)}{(59.84 + 20.13 + 63.33 + 28.04 + 19.27 + 8.55 + 13.08 + 48.38 + 7.28 + 6.36 + 12.2)}$$

$$\frac{8680.91}{286.46} = 30.30' \text{ AVERAGE BUILDING ELEVATION @ MAIN BUILDING}$$

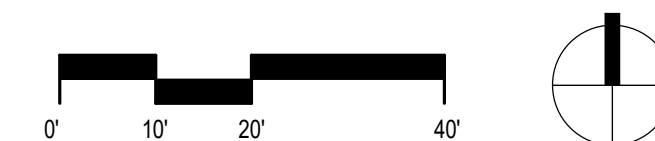
$$\frac{(A \times a) + (B \times b) + (C \times c) + (D \times d)}{(a + b + c + d)}$$

$$\frac{(52.76 \times 24.75) + (52.33 \times 22.12) + (56.4 \times 24.75) + (54.25 \times 22.12)}{(24.75 + 22.12 + 24.75 + 22.12)}$$

$$\frac{5059.26}{93.74} = 53.97' \text{ AVERAGE BUILDING ELEVATION @ GARAGE}$$

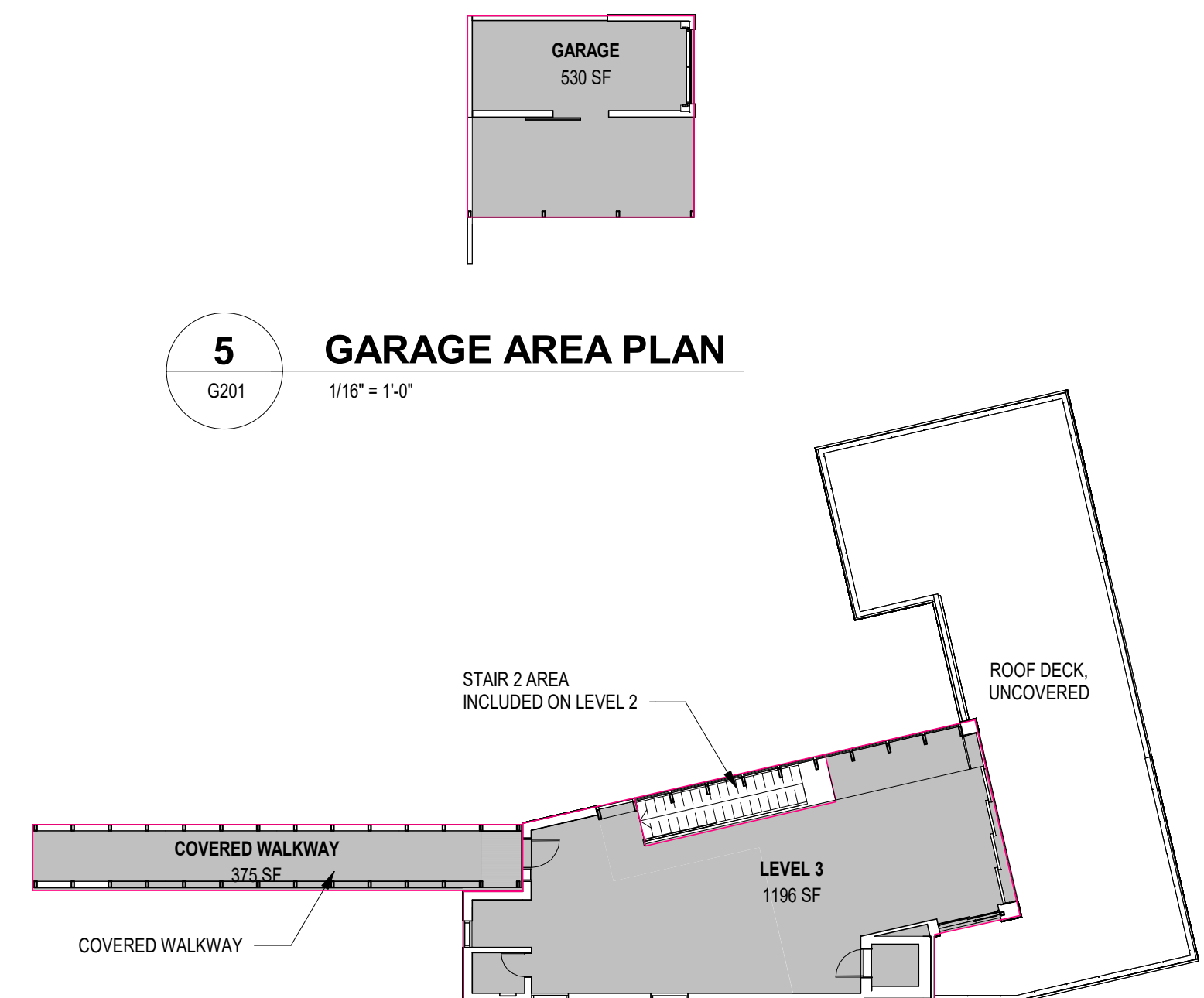
AREA	LENGTH	SPOT ELEV (E)	SPOT ELEV FIN	
A	59.84	33.84	34.71	2024.99
B	20.13	27.4	27.5	551.56
C	63.33	24.67	25.79	1562.35
D	28.04	27.5	27.68	771.10
E	19.27	30.45	30.45	586.77
F	8.55	31.5	29.31	250.80
G	13.08	31.5	27.13	354.86
H	48.38	33.16	33.16	1604.28
I	7.28	38.34	37.48	272.85
J	6.36	38.34	37.7	239.77
K	12.2	39.15	37.85	461.77
	286.46			8680.91
				30.30

AREA	LENGTH	SPOT ELEV (E)	SPOT ELEV FIN	
A	24.75	52.76	54.13	1305.81
B	22.12	52.33	53.98	1157.54
C	24.75	56.4	58.72	1395.90
D	22.12	55.6	54.25	1200.01
	93.74			5059.26
				53.97



**1 SITE PLAN DIAGRAM - AVERAGE BUILDING HEIGHT CALCULATIONS**  
 G201 1" = 20'-0"

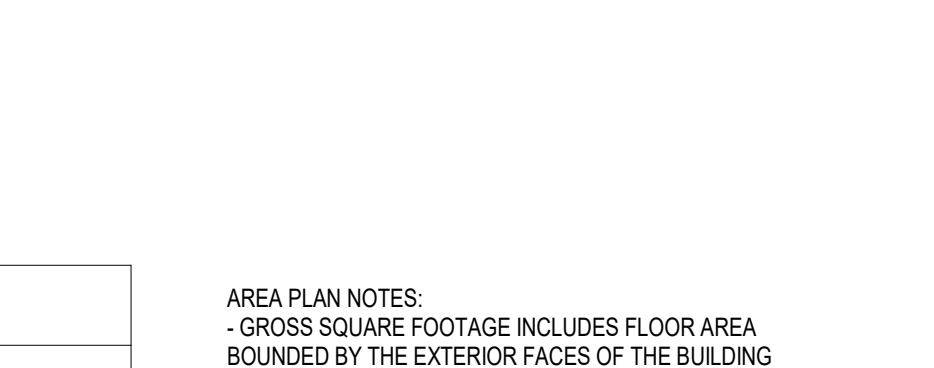
**5 GARAGE AREA PLAN**  
 G201 1/16" = 1'-0"



**4 LEVEL 3 AREA PLAN**  
 G201 1/16" = 1'-0"

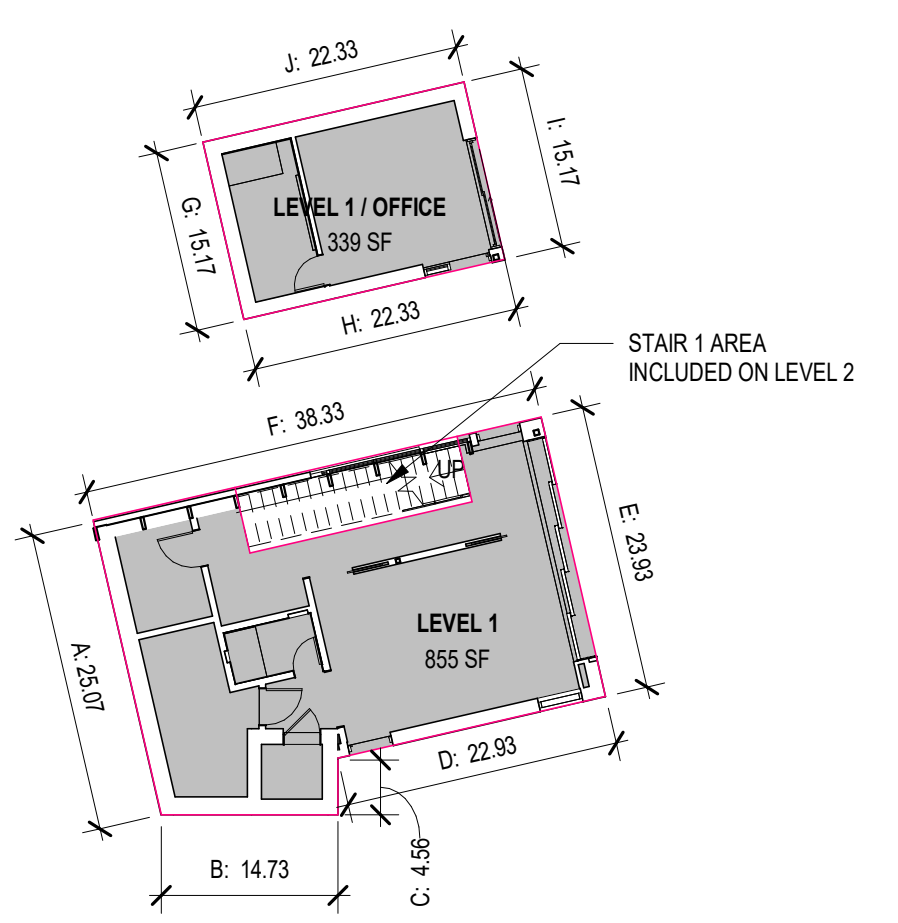
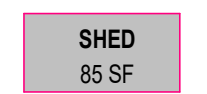


**3 LEVEL 2 AREA PLAN**  
 G201 1/16" = 1'-0"



Name	Area
LEVEL 1 / OFFICE	339 SF
LEVEL 1	855 SF
SHED	85 SF
LEVEL 2	2073 SF
LEVEL 3	1196 SF
COVERED WALKWAY	375 SF
GARAGE	530 SF
	5453 SF - 510 SF = 4943 SF

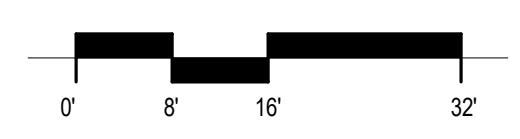
AREA PLAN NOTES:  
 - GROSS SQUARE FOOTAGE INCLUDES FLOOR AREA BOUNDED BY THE EXTERIOR FACES OF THE BUILDING

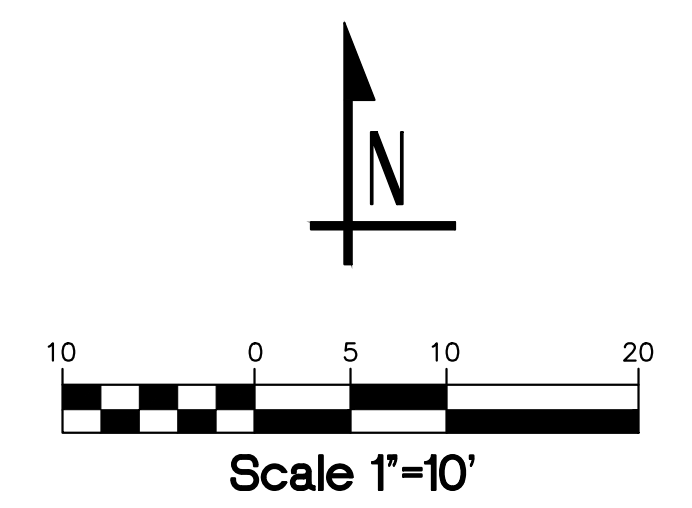
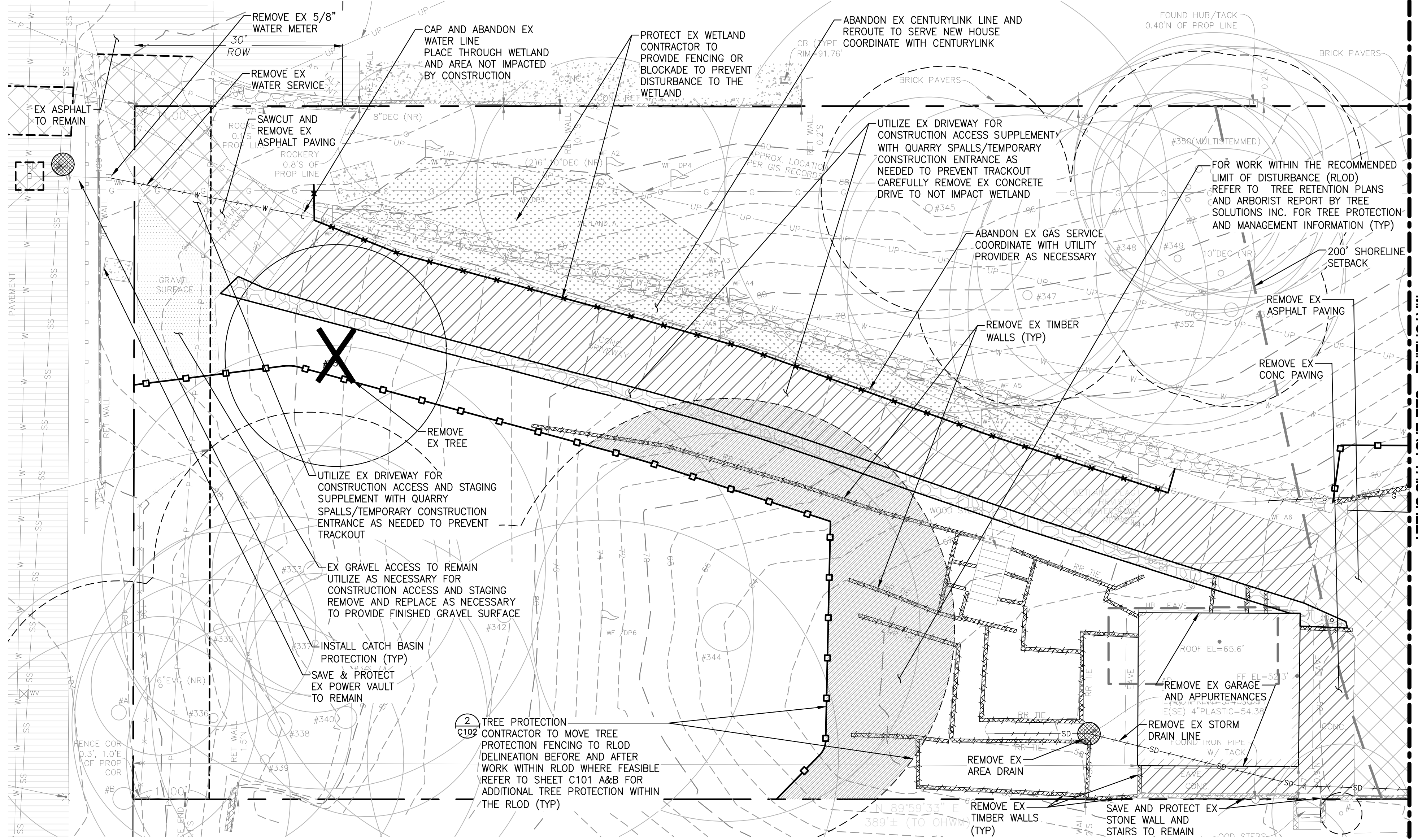


BASEMENT FLOOR AREA EXCLUSION:  
 43% OR 510 SF EXCLUDED, REF CHART BELOW AND ELEVATIONS  
 LEVEL 1 (BASEMENT) GFA: 1194 SF - 510 SF = 684 GFA

WALL	LENGTH	COVERAGE	RESULT	
A	25.07	72%	18%	
B	14.73	35%	5%	
C	4.56	0%	0%	
D	22.93	0%	0%	
E	23.93	0%	0%	
F	38.33	18%	7%	
G	15.17	43%	7%	
H	22.33	10%	2%	
I	15.17	0%	0%	
J	22.33	17%	4%	
TOTALS	204.55	NA	43%	

**2 LEVEL 1 AREA PLAN**  
 G201 1/16" = 1'-0"





**LEGEND**

	PROPERTY LINE
	EX CONTOUR (INDEX)
	EX CONTOUR
	EX BUILDING
	SAWCUT LINE
	ASPHALT REMOVAL
	CONCRETE REMOVAL
	STABILIZED CONSTRUCTION ENTRANCE
	SILT FENCE
	WETLAND PROTECTION
	WORK WITHIN THE RECOMMENDED LIMIT OF DISTURBANCE (RLOD)
	SEE TREE RETENTION PLAN
	EX TREE TO REMAIN
	EX TREE TO BE REMOVED
	TREE PROTECTION
	CATCH BASIN INSERT PROTECTION
	WETLAND BUFFER DELINEATION
	REMOVE EX TIMBER WALL

MATCHLINE - SEE EAST THIS SHEET

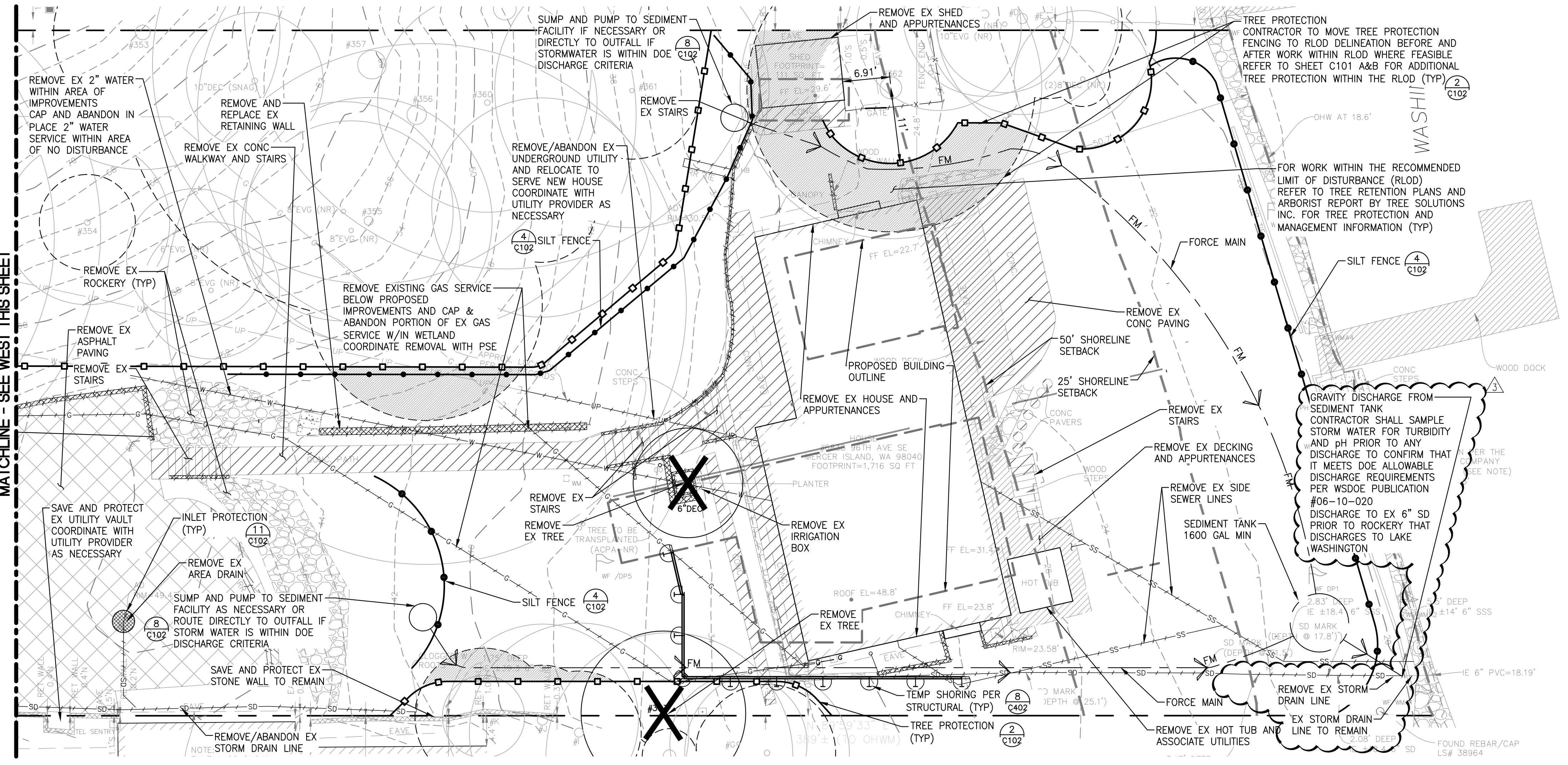
2 TREE PROTECTION  
 CONTRACTOR TO MOVE TREE PROTECTION FENCING TO RLOD DELINEATION BEFORE AND AFTER WORK WITHIN RLOD WHERE FEASIBLE REFER TO SHEET C101 A&B FOR ADDITIONAL TREE PROTECTION WITHIN THE RLOD (TYP)

**TESC NOTES**

- CONTRACTOR TO VIDEO INVESTIGATE EX SD DRAIN AND EX SS LINE TO VERIFY CONDITION, LOCATION AND INVERT ELEVATION. CONTRACTOR TO PROVIDE VIDEO TO ENGINEER FOR REVIEW OF EXISTING CONDITION PRIOR TO CONSTRUCTION.
- PROVIDE SEDIMENT TANK AS NECESSARY FOR STORMWATER SEDIMENT CONTROL PRIOR TO DISCHARGE FROM THE SITE.
- CONTRACTOR TO PROVIDE CONSTRUCTION FENCING AS NECESSARY TO SECURE MATERIALS, EQUIPMENT AND ALL AREAS BEING DISTURBED.

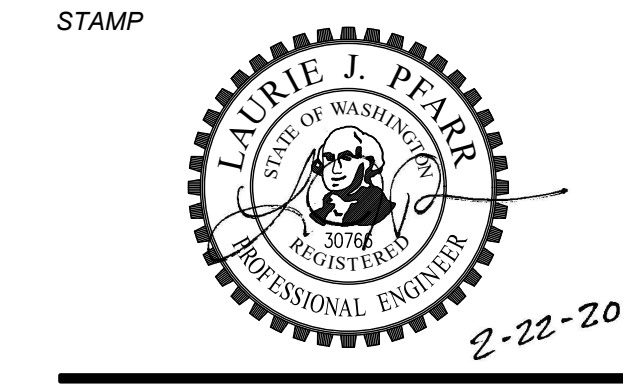
**ADDITIONAL NOTES**

- REFER TO ARCHITECT PLANS FOR LOT COVERAGE AND HARDSCAPE CALCULATIONS AT SHORELINE SETBACKS
- REFER TO ARCHITECT PLANS FOR LOT COVERAGE AND HARDSCAPE CALCULATIONS AT THE SITE PROPERTY
- REFER TO TREE RETENTION PLANS AND ARBORIST REPORT BY TREE SOLUTIONS INC. FOR TREE PROTECTION AND MANAGEMENT INFORMATION.
- EXISTING WETLAND SHALL NOT BE DISTURBED FOR ANY REASON. REFER TO WETLAND AND SHORELINE MITIGATION PLAN FOR LIMITS OF PROJECT IMPACTS.
- THE PROJECT INCLUDES REPLACEMENT OF EXISTING TIMBER RETAINING WALLS WITH NEW CAST-IN-PLACE CANTILEVERED CONCRETE WALLS AND/OR CANTILEVERED SOLDIER PILE AND LAGGING WALLS. IN SOME CASES, THE EXISTING RETAINING WALLS ARE SUPPORTING SLOPES THAT MAY BECOME UNSTABLE IF THE EXISTING WALLS ARE REMOVED WITHOUT MAINTAINING CONTINUOUS LATERAL SUPPORT THROUGHOUT CONSTRUCTION. THE CONTRACTOR IS FULLY RESPONSIBLE FOR SITE SAFETY, INCLUDING THE STABILITY OF TEMPORARY EXCAVATIONS AND SLOPES. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATIONS OF CONSTRUCTION OPERATIONS. SLOPE HEIGHTS, INCLINATIONS, AND EXCAVATION DEPTHS SHOULD IN NO CASE EXCEED THOSE SPECIFIED IN LOCAL, STATE, OR FEDERAL SAFETY REGULATIONS. THE FOLLOWING ARE GEOTECHNICAL RECOMMENDATIONS TO REDUCE THE POTENTIAL FOR SLOPE INSTABILITY DURING CONSTRUCTION:
  - PROPOSED SOLDIER PILE WALL ALIGNMENTS SHOULD BE LOCATED, TO THE MAXIMUM EXTENT PRACTICAL, IMMEDIATELY UPSLOPE OF THE EXISTING TIMBER WALL ALIGNMENTS TO ALLOW FOR DRILLING OF SHAFTS AND PLACEMENT OF STEEL PRIOR TO DEMOLITION OF THE EXISTING TIMBER WALLS. EXCAVATION IN FRONT OF THE PROPOSED SOLDIER PILE WALLS AND LAGGING INSTALLATION SHOULD TAKE PLACE FROM THE TOP DOWN, CONCURRENT WITH PIECE-WISE DEMOLITION OF THE EXISTING TIMBER WALL ELEMENTS SUCH THAT LATERAL SUPPORT OF THE SLOPE IS MAINTAINED AT ALL TIMES.
  - ALTERNATIVELY, SOLDIER PILE WALLS CAN BE LOCATED DIRECTLY IN FRONT OF THE EXISTING WALLS, AND THE EXISTING WALLS CAN BE LEFT IN-PLACE DURING BACKFILL PLACEMENT.
  - WALL DEMOLITION AND CONSTRUCTION SHOULD TAKE PLACE DURING THE DRY SEASON (APRIL THROUGH SEPTEMBER) WHEN PRECIPITATION AND GROUNDWATER ARE TYPICALLY AT A MINIMUM AND THERE IS A REDUCED RISK OF SATURATION OF THE SITE SOILS AND ASSOCIATED SLOPE INSTABILITY.
  - IT MAY BECOME NECESSARY FOR THE CONTRACTOR TO UTILIZE TEMPORARY SHORING SYSTEMS TO PROVIDE TEMPORARY SUPPORT OF SLOPES. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SUCCESSFUL INSTALLATION OF TEMPORARY SHORING SYSTEMS. TEMPORARY SHORING SYSTEMS SHOULD BE DESIGNED AND CONSTRUCTED TO SUPPORT LATERAL LOADS EXERTED BY THE RETAINED SOIL MASS AND ANY PRESSURES APPLIED DURING CONSTRUCTION, SUCH AS HEAVY EQUIPMENT AND STOCKPILES NEXT TO THE EXCAVATION.



MATCHLINE - SEE WEST THIS SHEET

GRAVITY DISCHARGE FROM SEDIMENT TANK  
 CONTRACTOR SHALL SAMPLE STORM WATER FOR TURBIDITY AND pH PRIOR TO ANY DISCHARGE TO CONFIRM THAT IT MEETS DOE ALLOWABLE DISCHARGE REQUIREMENTS PER WSDOE PUBLICATION #06-10-020  
 DISCHARGE TO EX 6" SD PRIOR TO ROCKERY THAT DISCHARGES TO LAKE WASHINGTON



**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040  
 SUBMITTAL

**100% CONSTRUCTION DOCUMENTS**

FEBRUARY 24, 2023

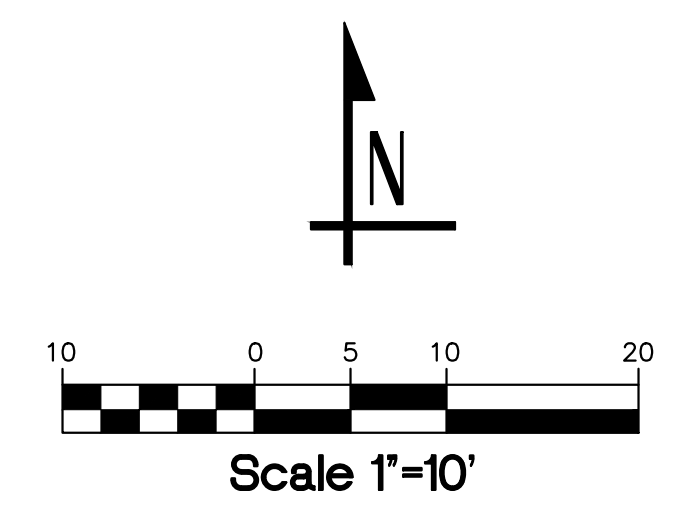
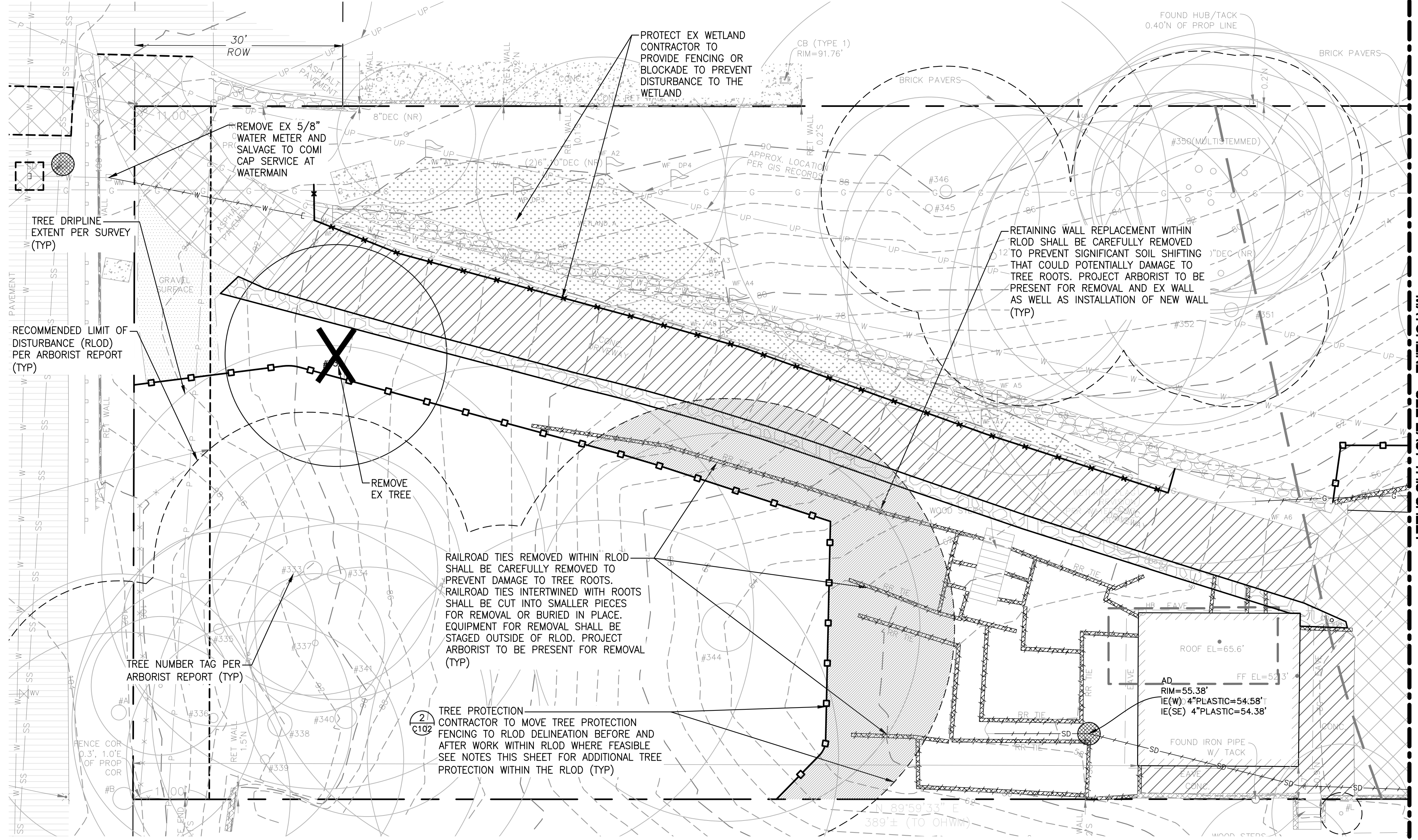
**REVISIONS**

No.	Description	Date
1	BUILDING PERMIT RESUBMITTAL 1	10/27/22
2	BUILDING PERMIT RESUBMITTAL 2	01/06/22
3	BUILDING PERMIT RESUBMITTAL 3	02/24/23

Drawn: EVW  
 Checked: ACW  
 MJH Proj No.: A20.0085.00  
 Issue Date: FEBRUARY 24, 2023

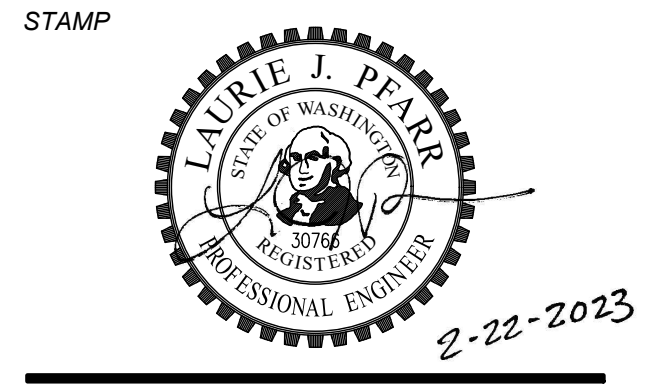
**TESC AND DEMOLITION PLAN C100**





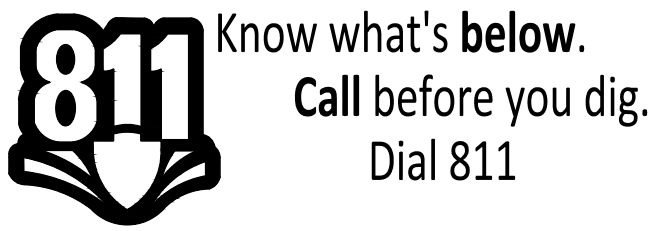
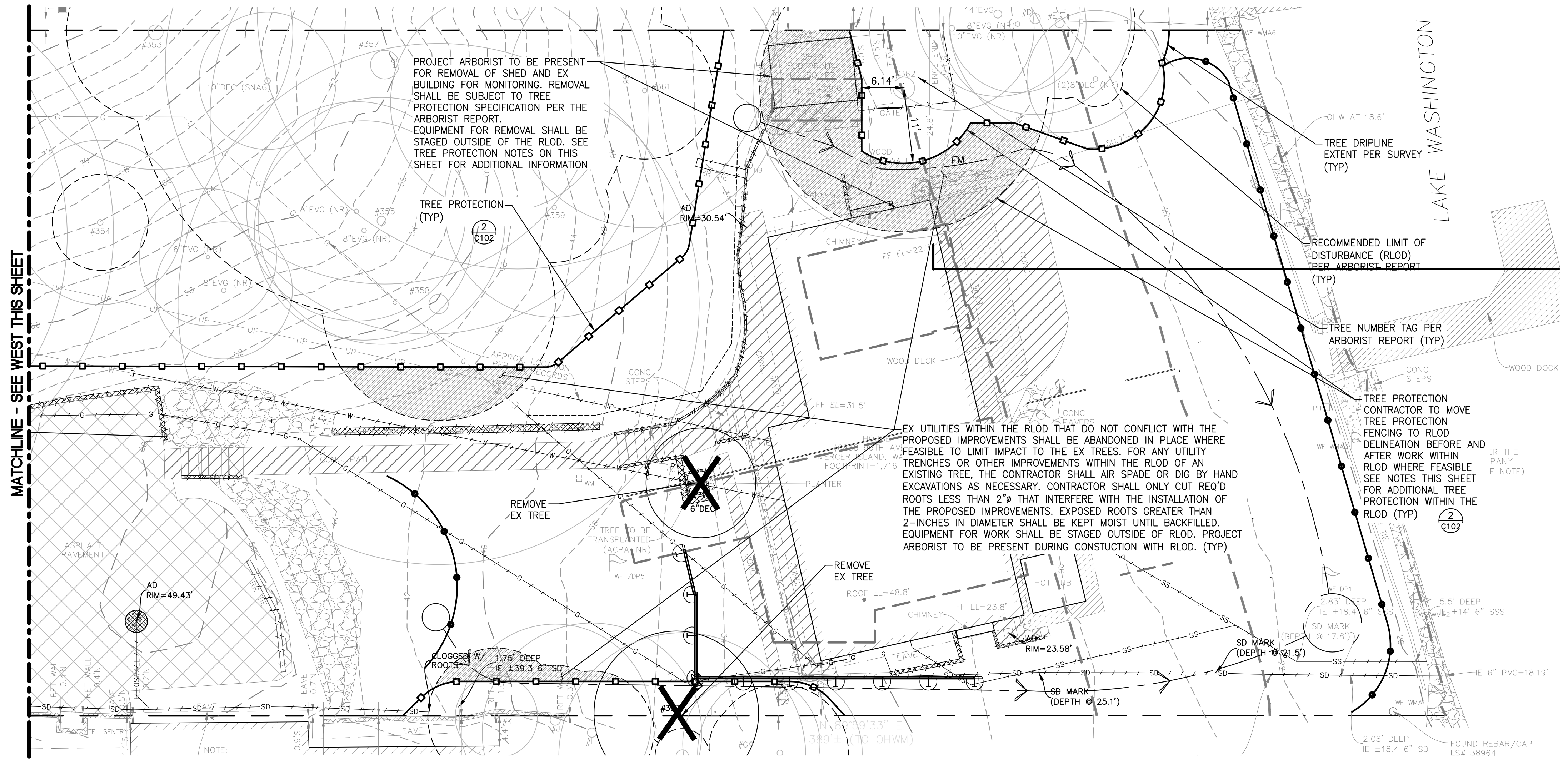
**LEGEND**

- PROPERTY LINE
- EX CONTOUR (INDEX)
- EX CONTOUR
- EX BUILDING
- SAWCUT LINE
- ASPHALT REMOVAL
- CONCRETE REMOVAL
- STABILIZED CONSTRUCTION ENTRANCE
- SILT FENCE
- WETLAND PROTECTION
- WORK WITHIN THE RECOMMENDED LIMIT OF DISTURBANCE (RLOD) PER ARBORIST REPORT
- EX TREE TO REMAIN
- EX TREE TO BE REMOVED
- TREE PROTECTION
- CATCH BASIN INSERT PROTECTION
- WETLAND BUFFER DELINEATION
- REMOVE EX TIMBER WALL



**TREE PROTECTION MEASURES AND SPECIAL INSTRUCTIONS AROUND RETAINED TREES**

1. REFER TO ARBORIST REPORT BY TREE SOLUTIONS INC. FOR TREE PROTECTION AND MANAGEMENT INFORMATION.
2. ANY WORK, ACTIVITY OR SOIL DISTURBANCE WITHIN THE PROTECTION FENCING, OR LIMIT OF DISTURBANCE, SHALL BE REVIEWED, APPROVED AND MONITORED BY THE PROJECT ARBORIST.
3. PRIOR TO ANY SITE WORK OR DEMOLITION, TREE PROTECTION FENCING (TPF) SHALL BE ERECTED AROUND RETAINED TREES AS SHOWN. TPF SHALL BE SIX (6) FOOT TEMPORARY CHAIN-LINK FENCE AND SHALL BE INSTALLED COMPLETELY ENCIRCLING THE RETAINED TREES.
4. A CITY PLANNER MUST APPROVE ANY MODIFICATIONS TO THE FENCING MATERIAL AND LOCATION.
5. THE AREA PROTECTED BY THE TPF IS OFF LIMITS TO ALL CONSTRUCTION RELATED ACTIVITY.
6. FENCING SHALL NOT BE MOVED OR REMOVED UNLESS APPROVED BY A CITY PLANNER.
7. NO STOCKPILING OF MATERIALS, VEHICULAR OR PEDESTRIAN TRAFFIC, MATERIAL STORAGE OR USE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN RECOMMENDED LIMIT OF DISTURBANCE (RLOD) TO THE EXTENT FEASIBLE. SOIL PROTECTION IS REQUIRED FOR CONSTRUCTION DISTURBANCE WITHIN THE RLOD. THIS INCLUDES BUT IS NOT LIMITED TO 6-INCHES OF WOOD CHIPS COVERED WITH 3/4" PLYWOOD OR COMPOSITE MATS.
8. ALL GROUNDWORK WITHIN RLOD SHALL BE MONITORED BY PROJECT ARBORIST TO ASSESS ROOT IMPACTS AND GUIDE ROOT CUTTING AS NECESSARY. FOR ANY UTILITY TRENCHES OR OTHER IMPROVEMENTS WITHIN THE RLOD OF AN EXISTING TREE, THE CONTRACTOR SHALL AIR SPADE OR DIG BY HAND EXCAVATIONS. CONTRACTOR SHALL ONLY CUT REQ'D ROOTS LESS THAN 2" THAT INTERFERE WITH THE INSTALLATION OF THE PROPOSED IMPROVEMENTS. EXPOSED ROOTS GREATER THAN 2-INCHES IN DIAMETER SHALL BE KEPT MOIST UNTIL BACKFILLED.
9. BRANCH PRUNING SHALL BE PERFORMED, BY AN APPROVED ISA CERTIFIED ARBORIST, WHERE LIMBS OVERHANG THE TPF TO REDUCE INJURY FROM EQUIPMENT. SEE ARBORIST REPORT FOR SPECIFIC TREE PRUNING RECOMMENDATIONS.



**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040  
 SUBMITTAL

**100% CONSTRUCTION DOCUMENTS**

FEBRUARY 24, 2023

REVISIONS

No.	Description	Date
1	BUILDING PERMIT RESUBMITTAL	10/27/22
2	BUILDING PERMIT RESUBMITTAL 2	01/06/23
3	BUILDING PERMIT RESUBMITTAL 3	02/24/23

Drawn: EWV  
 Checked: ACW  
 MJH Proj No.: A20.0085.00  
 Issue Date: FEBRUARY 24, 2023

SHEET  
**TREE RETENTION PLAN A-REMOVAL C101A**



**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
MERCER ISLAND, WA 98040

SUBMITTAL

**100% CONSTRUCTION DOCUMENTS**

FEBRUARY 24, 2023

REVISIONS

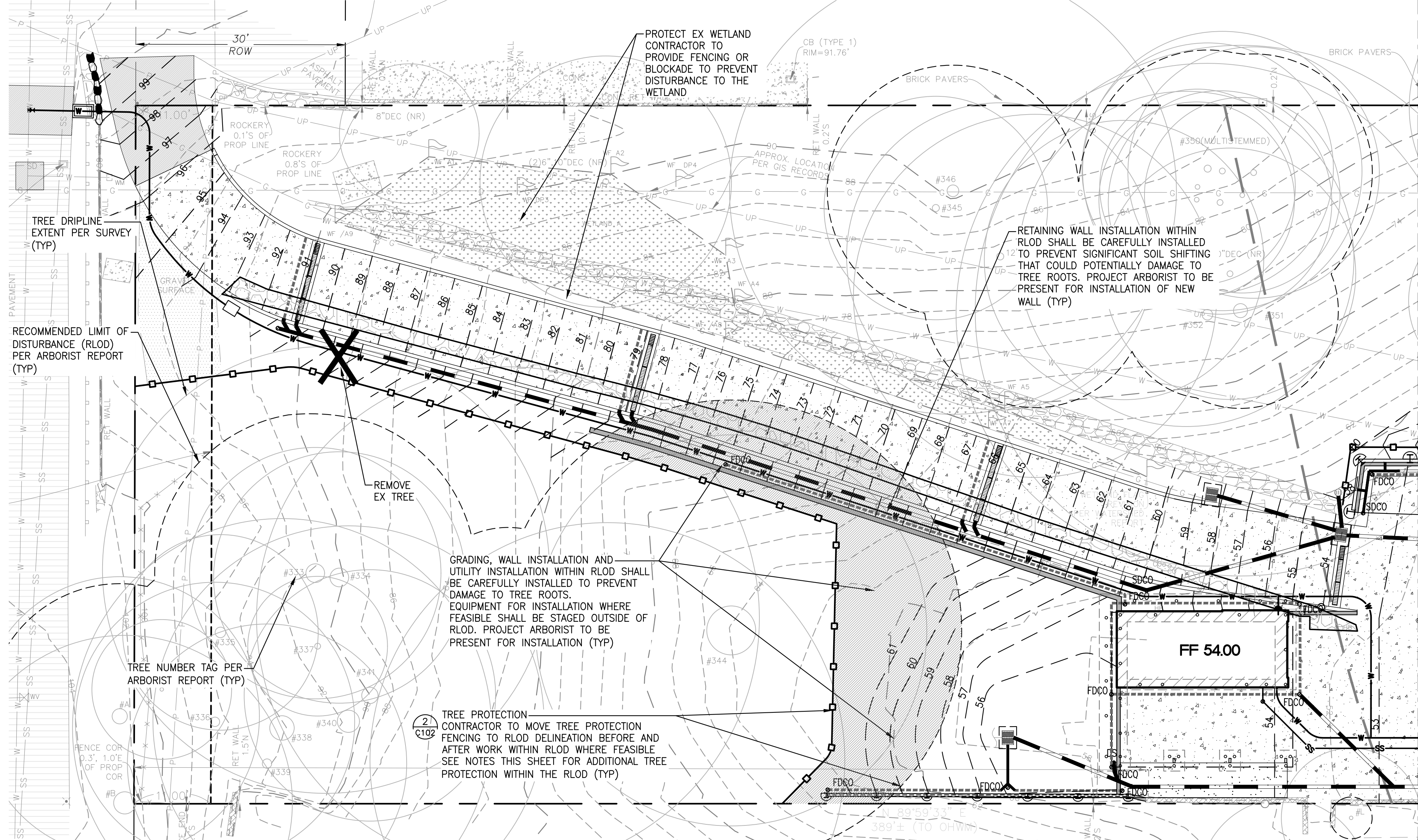
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Drawn: EWV  
Checked: ACW  
MJH Proj No.: A20.0085.00

Issue Date: FEBRUARY 24, 2023

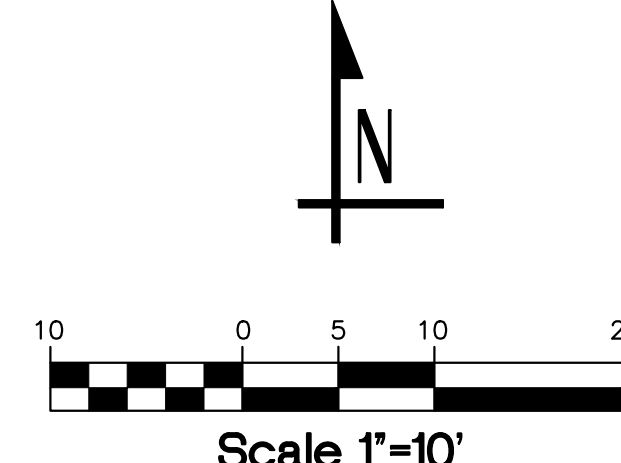
SHEET

**TREE RETENTION PLAN B- PROPOSED C101B**



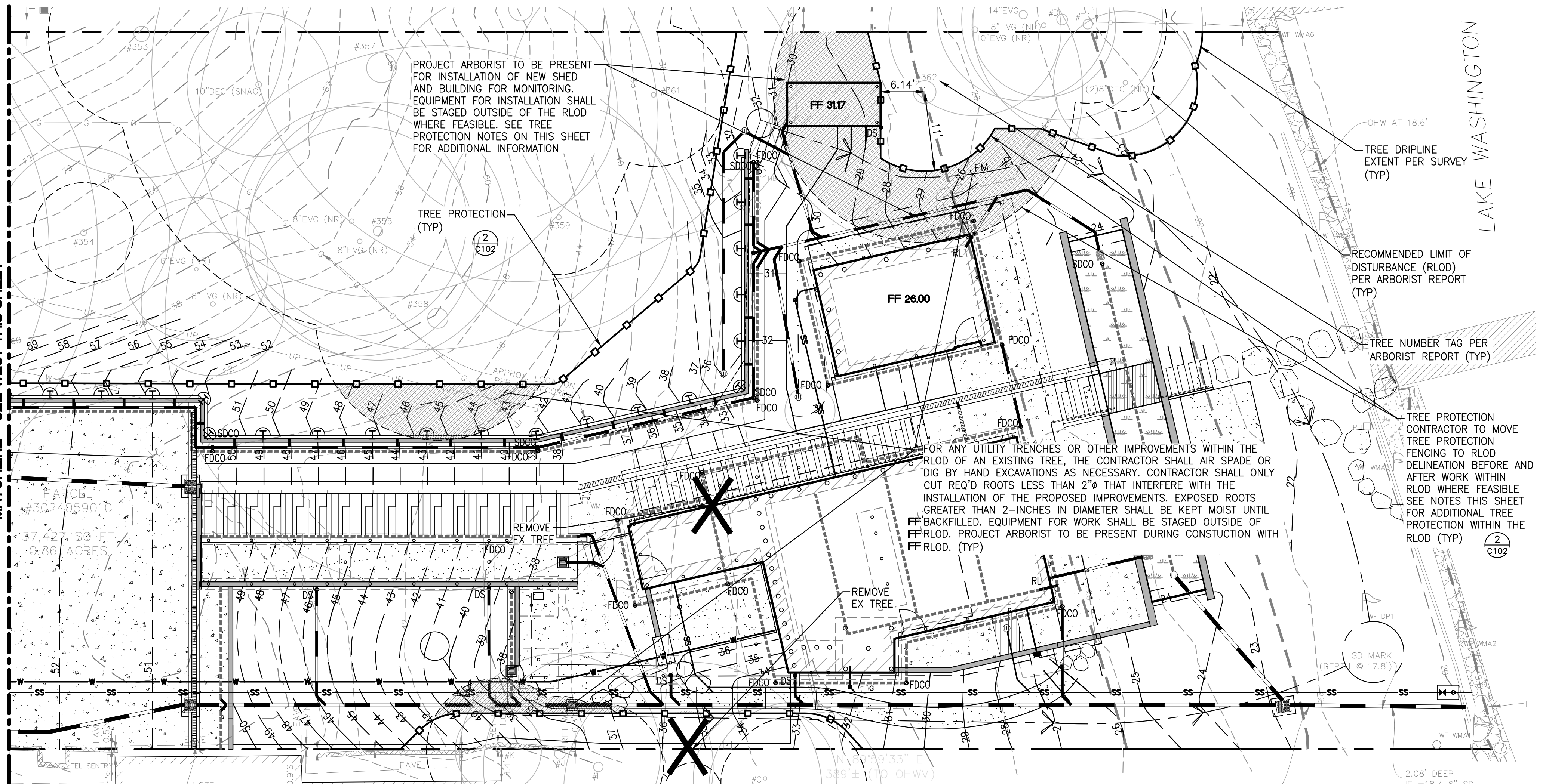
**LEGEND**

- PROPERTY LINE
- EX CONTOUR (INDEX)
- EX CONTOUR
- 230 PROPOSED CONTOUR (INDEX)
- 231 PROPOSED CONTOUR
- FF 78.0 FINISHED FLOOR ELEVATION
- EX BUILDING
- PROPOSED BUILDING
- CONCRETE PAVEMENT
- ASPHALT (AC) PAVEMENT
- EX ASPHALT (AC) PAVEMENT
- GRAVEL SURFACING PER LA
- PAVERS PER LA
- GRASSPAVE PER LA
- SITE WALL
- TRENCH/CHANNEL DRAIN
- BIORETENTION POND
- QUARRY SPALL DISCHARGE PAD
- AREA/YARD DRAIN
- CATCH BASIN TYPE 1
- STORM DRAINAGE PIPE
- FOOTING/SUBSURFACE DRAIN
- SDCO STORM DRAIN CLEANOUT
- FDCO FOOTING DRAIN CLEANOUT
- DS DOWNSPOUTS
- SSCO SIDE SEWER PIPE
- SS SEWER CLEANOUT
- SS SIDE SEWER CONNECTION
- WORK WITHIN THE RECOMMENDED LIMIT OF DISTURBANCE (RLOD) SEE TREE RETENTION PLAN
- EX TREE TO REMAIN
- TREE PROTECTION
- WETLAND BUFFER DELINEATION



MATCHLINE - SEE EAST THIS SHEET

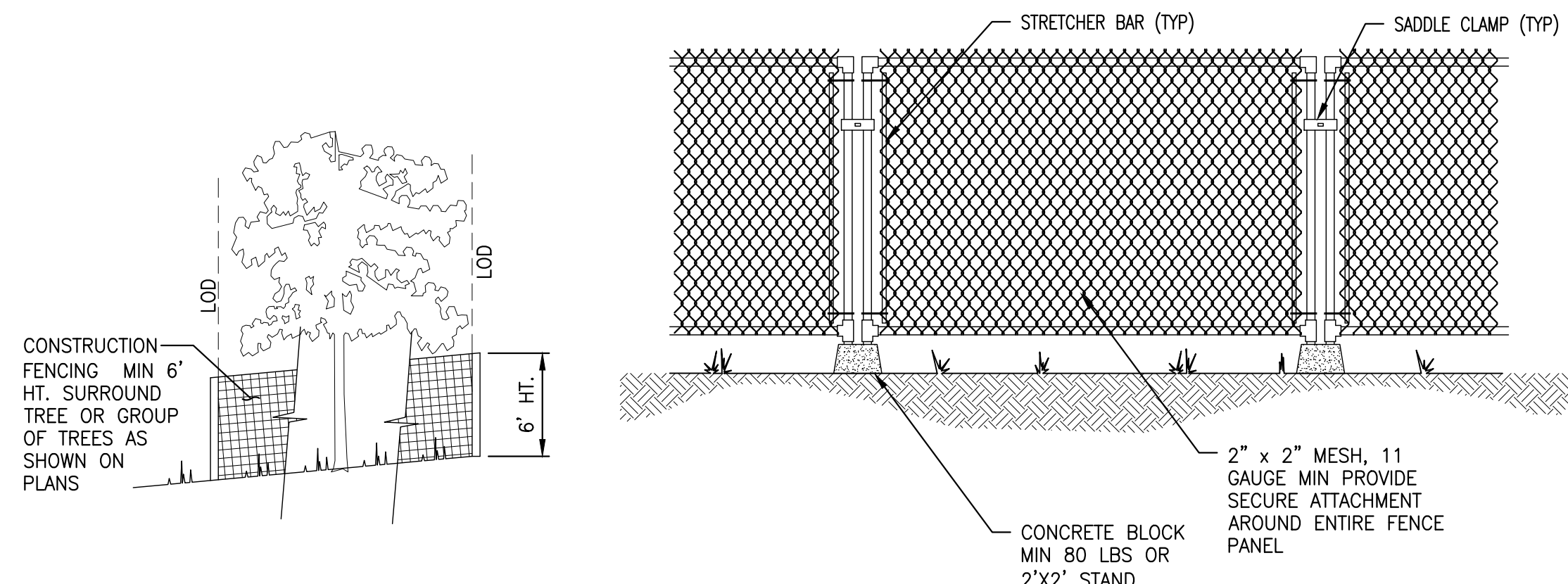
MATCHLINE - SEE WEST THIS SHEET



**TREE PROTECTION MEASURES AND SPECIAL INSTRUCTIONS AROUND RETAINED TREES**

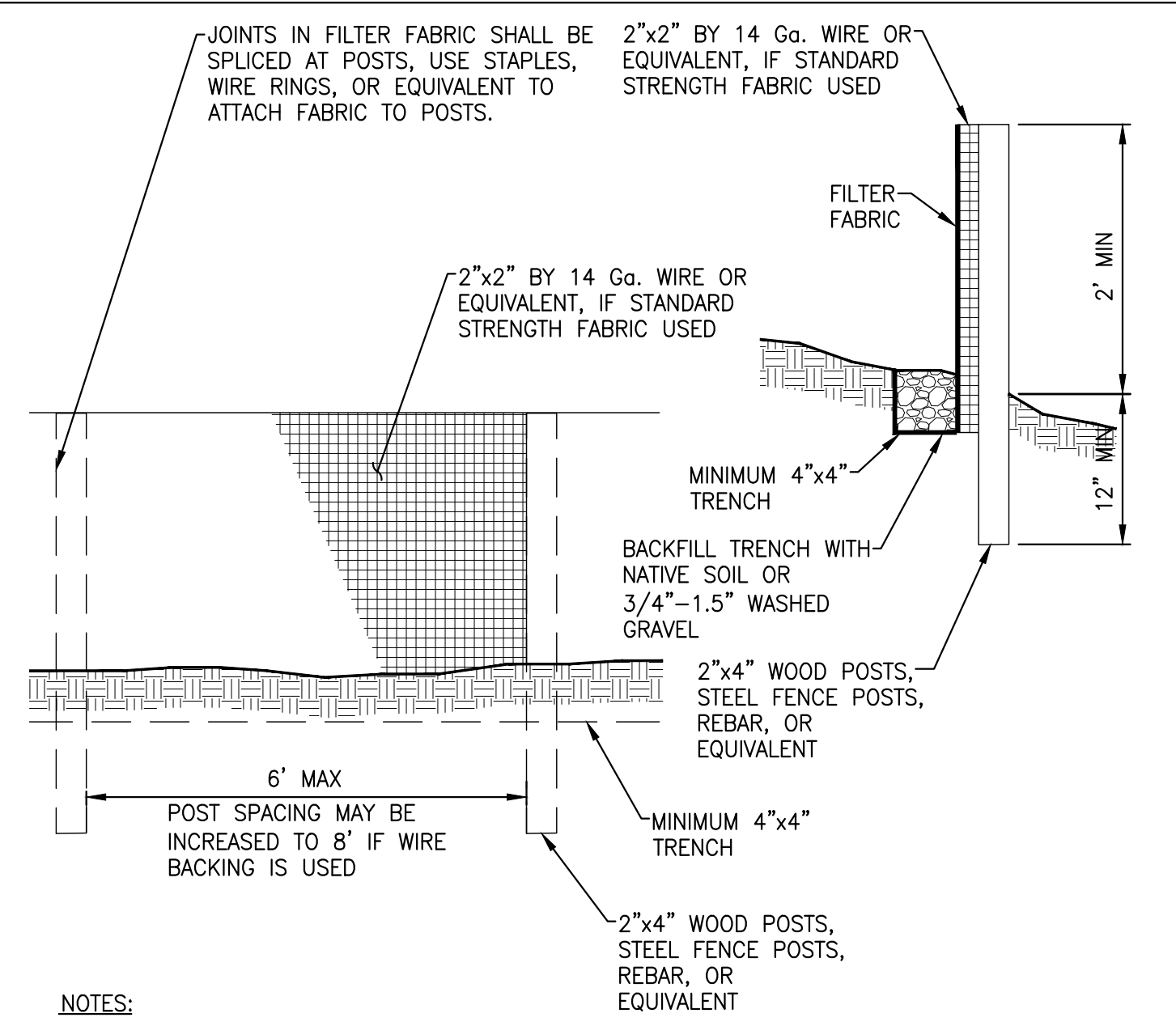
- REFER TO ARBORIST REPORT BY TREE SOLUTIONS INC. FOR TREE PROTECTION AND MANAGEMENT INFORMATION.
- ANY WORK, ACTIVITY OR SOIL DISTURBANCE WITHIN THE PROTECTION FENCING, OR LIMIT OF DISTURBANCE, SHALL BE REVIEWED, APPROVED AND MONITORED BY THE PROJECT ARBORIST.
- PRIOR TO ANY SITE WORK OR DEMOLITION, TREE PROTECTION FENCING (TPF) SHALL BE ERRECTED AROUND RETAINED TREES AS SHOWN. TPF SHALL BE SIX (6) FOOT TEMPORARY CHAIN-LINK FENCE AND SHALL BE INSTALLED COMPLETELY ENCRICLING THE RETAINED TREES.
- A CITY PLANNER MUST APPROVE ANY MODIFICATIONS TO THE FENCING MATERIAL AND LOCATION.
- THE AREA PROTECTED BY THE TPF IS OFF LIMITS TO ALL CONSTRUCTION RELATED ACTIVITY.
- FENCING SHALL NOT BE MOVED OR REMOVED UNLESS APPROVED BY A CITY PLANNER.
- NO STOCKPIILING OF MATERIALS, VEHICULAR OR PEDESTRIAN TRAFFIC, MATERIAL STORAGE OR USE OF EQUIPMENT OR MACHINERY SHALL BE ALLOWED WITHIN RECOMMENDED LIMIT OF DISTURBANCE (RLOD) TO THE EXTENT FEASIBLE. SOIL PROTECTION IS REQUIRED FOR CONSTRUCTION DISTURBANCE WITHIN THE RLOD. THIS INCLUDES BUT IS NOT LIMITED TO 6-INCHES OF WOOD CHIPS COVERED WITH ¾" PLYWOOD OR COMPOSITE MATS.
- ALL GROUNDWORK WITHIN RLOD SHALL BE MONITORED BY PROJECT ARBORIST TO ASSESS ROOT IMPACTS AND GUIDE ROOT CUTTING AS NECESSARY. FOR ANY UTILITY TRENCHES OR OTHER IMPROVEMENTS WITHIN THE RLOD OF AN EXISTING TREE, THE CONTRACTOR SHALL AIR SPADE OR DIG BY HAND EXCAVATIONS. CONTRACTOR SHALL ONLY CUT REQ'D ROOTS LESS THAN 2" THAT INTERFERE WITH THE INSTALLATION OF THE PROPOSED IMPROVEMENTS. EXPOSED ROOTS GREATER THAN 2-INCHES IN DIAMETER SHALL BE KEPT MOIST UNTIL BACKFILLED.
- BRANCH PRUNING SHALL BE PERFORMED, BY AN APPROVED ISA CERTIFIED ARBORIST, WHERE LIMBS OVERHANG THE TPF TO REDUCE INJURY FROM EQUIPMENT. SEE ARBORIST REPORT FOR SPECIFIC TREE PRUNING RECOMMENDATIONS.

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



- NOTES:**
1. A 6 FOOT HIGH TEMPORARY FENCE MUST BE PLACED PRIOR TO THE COMMENCEMENT OF CLEARING OR EARTHWORK. NOTIFY THE CLEARING AND GRADING INSPECTOR TO GET BOTH THE INSPECTION AND WRITTEN APPROVAL OF FLAGGED TREES AND TEMPORARY PROTECTION FENCING AROUND TREES TO BE SAVED PER THE APPROVED CLEARING AND GRADING PLAN.
  2. NO STOCKPILING OF MATERIAL AND NO VEHICULAR TRAFFIC ARE ALLOWED WITHIN THE LIMITS OF THE DISTURBANCE (LOD), THE TEMPORARY FENCING, UNLESS APPROVED BY THE ARBORIST. FILLING, EXCAVATION, AND CLEARING MUST BE ACCOMPLISHED BY HAND METHODS ONLY UNLESS APPROVED BY ARBORIST.
  3. ROOTS OF TREES TO BE SAVED WHICH ARE DAMAGED DURING CONSTRUCTION MUST BE TREATED IN THE FOLLOWING WAY: FOR DAMAGED ROOTS OVER 2" IN DIAMETER, MAKE A CLEAN, STRAIGHT CUT TO REMOVE THE DAMAGED PORTION OF THE ROOT ALL EXPOSED ROOTS WILL BE TEMPORARILY COVERED WITH DAMP BURLAP OR WOOD SHAVINGS TO PREVENT DRYING AND COVERED WITH EARTH AS SOON AS POSSIBLE.

NTS TREE PROTECTION FENCING 2



- NOTES:**
1. SILT FENCING WITHIN THE TREE PROTECTION ZONE OF RETAINED TREES SHALL BE INSTALLED IN A MANNER THAT DOES NOT SEVER ROOTS. INSTALL SO THAT SILT FENCING SITS ON THE GROUND AND IS WEIGHED IN PLACE BY SANDBAGS OR GRAVEL. DO NOT TRENCH TO INSERT SILT FENCING INTO THE GROUND.

NTS SILT FENCE 4

**EROSION AND SEDIMENTATION CONTROL NOTES**

1. THE IMPLEMENTATION OF THESE EROSION SEDIMENTATION CONTROL (ESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
2. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO INSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS, AND MUST BE COMPLETED PRIOR TO ALL OTHER CONSTRUCTION.
3. 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 (E.G. ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES), AS NEEDED FOR UNEXPECTED STORM EVENTS. ADDITIONALLY MORE ESC FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL. THEREFORE, DURING THE COURSE OF CONSTRUCTION IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY THEIR ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES OVER AND ABOVE THE MINIMUM REQUIREMENTS AS MAY BE NEEDED.
4. THE ESC FACILITIES SHALL BE INSPECTED DAILY DURING NON-RAINFALL PERIODS, EVERY HOUR (DAYLIGHT) DURING A RAINFALL EVENT AND AT THE END OF EVERY RAINFALL BY THE PERMIT HOLDER/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. IN ADDITION, TEMP. SILTATION PONDS AND ALL TEMP. SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED.
5. ANY AREA STRIPPED OF VEGETATION, INCLUDING ROADWAY EMBANKMENTS WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF SEVEN (7) DAYS, SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G. SEEDING, MULCHING, NETTING, EROSION, BLANKETS, ETC.)
6. ANY AREAS NEEDING ESC MEASURES, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
7. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT.
8. 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 DOWNSLOPE SYSTEM.
9. WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (E.G. ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE).
10. WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF THREE INCHES.
11. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF MERCER ISLAND STANDARDS AND SPECIFICATIONS.
12. EROSION/SEDIMENTATION CONTROL FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS IN DEPARTMENT OF ECOLOGY STORMWATER MANAGEMENT MANUAL, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
13. A COPY OF THE APPROVED EROSION CONTROL PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
14. TEMPORARY EROSION/SEDIMENTATION CONTROLS SHALL BE INSTALLED & OPERATING PRIOR TO ANY GRADING OR LAND CLEARING.
15. WHEREVER POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL.
16. ALL CUT AND FILL SLOPES 5:1 (5 FEET HORIZONTAL TO 1 FOOT VERTICAL) OR STEEPER THAT WILL BE LEFT EXPOSED FOR MORE THAN 7 DAYS SHALL BE PROTECTED BY JUTE MATTING, PLASTIC SHEETING, MULCH, OR OTHER APPROVED STABILIZATION METHOD AND PROVIDED WITH ADEQUATE RUNOFF CONVEYANCE TO INTERCEPT RUNOFF AND CONVEY IT TO AN APPROVED STORM DRAIN.
17. OFF-SITE STREETS MUST BE KEPT CLEAN AT ALL TIMES. IF DIRT IS DEPOSITED ON THE PUBLIC STREET, THE STREET SHALL BE CLEANED. ALL VEHICLES SHALL LEAVE THE SITE BY WAY OF THE CONSTRUCTION VEHICLE ENTRANCE AND SHALL BE CLEANED OF MUD PRIOR TO EXITING ONTO THE STREET. SILT SHALL BE CLEANED FROM ALL CATCH BASINS WHEN THE BOTTOM HALF BECOMES FILLED WITH SILT.
18. ANY CATCH BASIN COLLECTING WATER FROM THE SITE, WHETHER THEY ARE ON OR OFF OF THE SITE, SHALL HAVE THEIR GRATES COVERED WITH FILTER FABRIC DURING CONSTRUCTION.
19. IF ANY PORTION OF THE EROSION/SEDIMENTATION CONTROL ELEMENTS ARE DAMAGED OR NOT FUNCTIONING, OR IF THE CLEARING LIMIT BOUNDARY BECOMES NON-DEFINED, IT SHALL BE REPAIRED IMMEDIATELY.

NTS EROSION AND SEDIMENTATION CONTROL NOTES 9

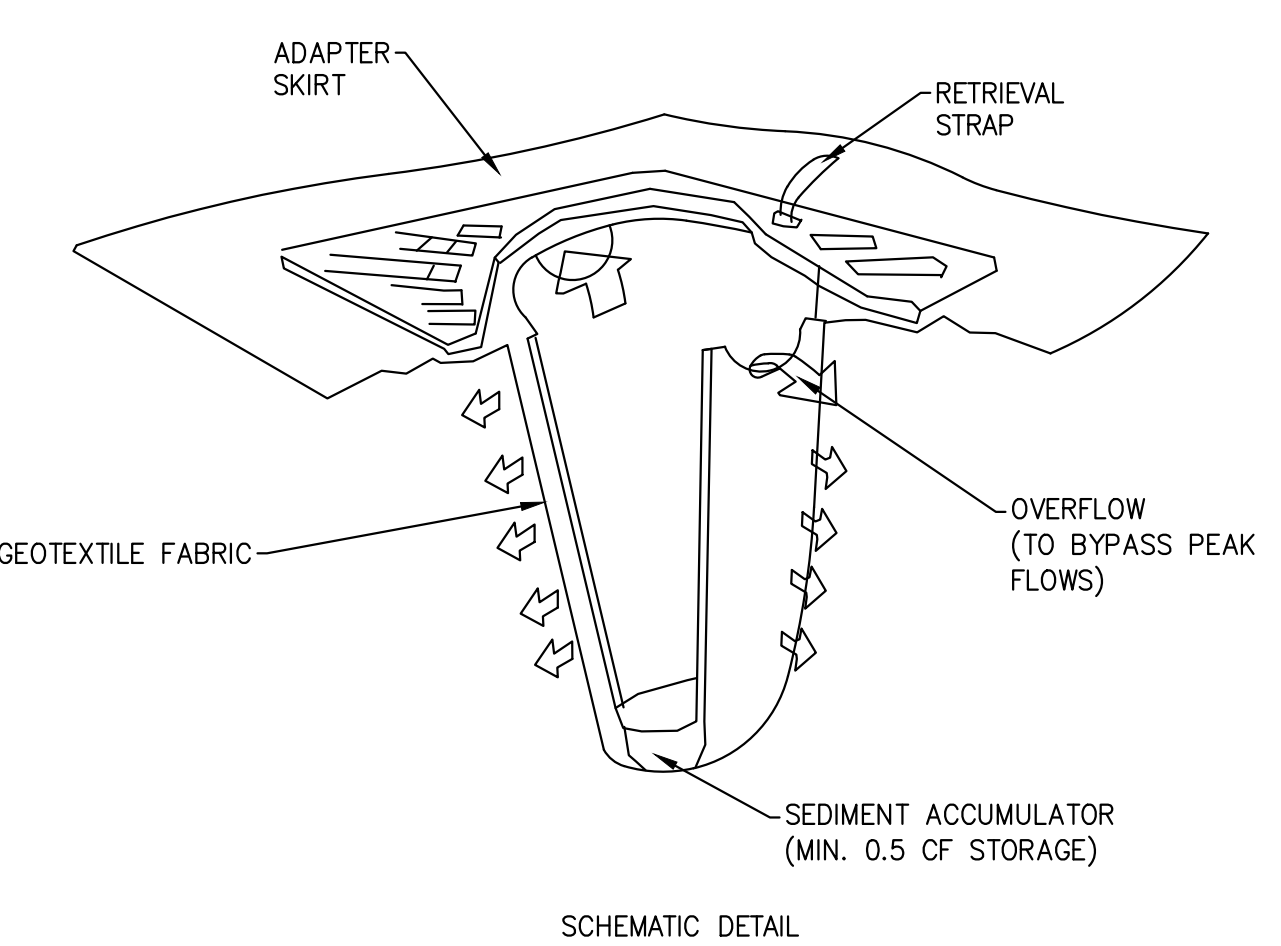
**CITY OF MERCER ISLAND NOTES**

1. ANY CHANGES TO THE APPROVED PLANS REQUIRES CITY APPROVAL THROUGH A REVISION.
2. APPLICANT IS RESPONSIBLE FOR ANY DAMAGES TO UNDERGROUND UTILITIES CAUSED FROM THIS CONSTRUCTION.
3. CATCH BASIN FILTERS SHOULD BE PROVIDED FOR ALL STORM DRAIN CATCH BASIN/INLETS DOWNSLOPE AND WITHIN 500 FEET OF THE CONSTRUCTION AREA. CATCH BASIN FILTERS SHOULD BE DESIGNED BY THE MANUFACTURER FOR USE AT CONSTRUCTION SITES AND APPROVED BY THE CITY INSPECTOR. CATCH BASIN FILTERS SHOULD BE INSPECTED FREQUENTLY, ESPECIALLY AFTER STORM EVENTS. IF THE FILTER BECOMES CLOGGED, IT SHOULD BE CLEANED OR REPLACED.
4. CONTRACTORS SHALL VERIFY LOCATIONS AND DEPTHS OF UTILITIES.
5. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, CALL "ONE CALL" AT 1.800.425.5555.
6. DO NOT BACKFILL WITH NATIVE MATERIAL ON PUBLIC RIGHT-OF-WAY. ALL MATERIAL MUST BE IMPORTED.
7. EROSION CONTROL: ALL "LAND DISTURBING ACTIVITY" IS SUBJECT TO PROVISIONS OF MERCER ISLAND ORDINANCE 95C-118 "STORM WATER MANAGEMENT." SPECIFIC ITEMS TO BE FOLLOWED AT YOUR SITE.
8. PROTECT ADJACENT PROPERTIES FROM ANY INCREASED RUNOFF OR SEDIMENTATION DUE TO THE CONSTRUCTION PROJECT THROUGH THE USE OF APPROPRIATE "BEST MANAGEMENT PRACTICES" (BMP) EXAMPLES INCLUDE, BUT ARE NOT LIMITED TO, SEDIMENT TRAPS, SEDIMENT PONDS, FILTER FABRIC FENCES, VEGETATIVE BUFFER STRIPS OR BIOENGINEERED SWALES.
9. CONSTRUCTION ACCESS TO SITE SHOULD BE LIMITED TO ONE ROUTE. STABILIZE ENTRANCE WITH QUARRY SPALLS TO PREVENT SEDIMENT FROM LEAVING THE SITE OR ENTERING THE STORM DRAINS.
10. PREVENT SEDIMENT, CONSTRUCTION DEBRIS, PAINTS, SOLVENTS, ETC., OR OTHER TYPES OF POLLUTION FROM ENTERING PUBLIC STORM DRAINS. KEEP ALL POLLUTION ON YOUR SITE.
11. ALL EXPOSED SOILS SHALL REMAIN DENUDED FOR NO LONGER THAN SEVEN (7) DAYS AND SHALL BE STABILIZED WITH MULCH, HAY, OR THE APPROPRIATE GROUND COVER. ALL EXPOSED SOILS SHALL BE COVERED IMMEDIATELY DURING ANY RAIN EVENT.
12. INSTALLATION OF CONCRETE DRIVEWAYS, TREES, SHRUBS, IRRIGATION, BOULDERS, BERMS, WALLS, GATES, AND OTHER IMPROVEMENTS ARE NOT ALLOWED IN THE PUBLIC RIGHT-OF-WAY WITHOUT PRIOR APPROVAL, AND AN ENCROACHMENT AGREEMENT AND RIGHT OF WAY PERMIT FROM THE SENIOR DEVELOPMENT ENGINEER.
13. OWNER SHALL CONTROL DISCHARGE OF SURFACE DRAINAGE RUNOFF FROM EXISTING AND NEW IMPERVIOUS AREAS IN A RESPONSIBLE MANNER. CONSTRUCTION OF NEW GUTTERS AND DOWNSPOUTS, DRY WELLS, LEVEL SPREADERS OR DOWNSLOPE CONVEYANCE PIPE MAY BE NECESSARY TO MINIMIZE DRAINAGE IMPACT TO YOUR NEIGHBORS. CONSTRUCTION OF MINIMUM DRAINAGE IMPROVEMENTS SHOWN OR CALLED OUT ON THIS PLAN DOES NOT IMPLY RELIEF FROM CIVIL LIABILITY FOR YOUR DOWNSLOPE DRAINAGE.
14. POT HOLING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STORM SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMIT A REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PUBLIC MAINS.
15. REMEMBER: EROSION CONTROL IS YOUR FIRST INSPECTION.
16. ROOF DRAINS MUST BE CONNECTED TO THE STORM DRAIN SYSTEM AND INSPECTED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO ANY BACKFILLING OF PIPE.
17. SILT FENCE: CLEAN AND PROVIDE REGULAR MAINTENANCE OF THE SILT FENCE. THE FENCE IS TO REMAIN VERTICAL AND IS TO FUNCTION PROPERLY THROUGHOUT THE TERM OF THE PROJECT.
18. WORK IN PUBLIC RIGHT OF WAY REQUIRES A RIGHT-OF-WAY USE PERMIT.
19. REFER TO WATER SERVICE PERMIT FOR ACTUAL LOCATION OF NEW WATER METER AND SERVICE LINE DETERMINED BY MERCER ISLAND WATER DEPARTMENT.
20. THE TV INSPECTION OF THE EXISTING SIDE SEWER TO THE CITY SEWER MAIN IS REQUIRED. IF THE RESULT OF THE TV INSPECTION IS NOT IN SATISFACTORY CONDITION, AS DETERMINED BY THE CITY OF MERCER ISLAND INSPECTOR, THE REPLACEMENT OF THE EXISTING SIDE SEWER IS REQUIRED. ALTERNATELY, A PRESSURE TEST OF THE SIDE SEWER, FROM SEWER MAIN TO POINT OF CONNECTION, MAY BE SUBSTITUTED FOR THE VIDEO INSPECTION.
21. NEWLY INSTALLED SIDE SEWER REQUIRES A 4 P.S.I. AIR TEST OR PROVIDE 10' OF HYDROSTATIC HEAD TEST.
22. THE LIMITS AND EXTENTS OF THE PAVEMENT IN THE PUBLIC RIGHT OF WAY SHALL BE DETERMINED BY THE CITY ENGINEER PRIOR TO FINALIZING THE PROJECT.
23. TREE PROTECTION INSPECTION REQUIRED BEFORE ANY WORK BEGINS, CALL 206-275-7713.

NTS CITY OF MERCER ISLAND NOTES 10

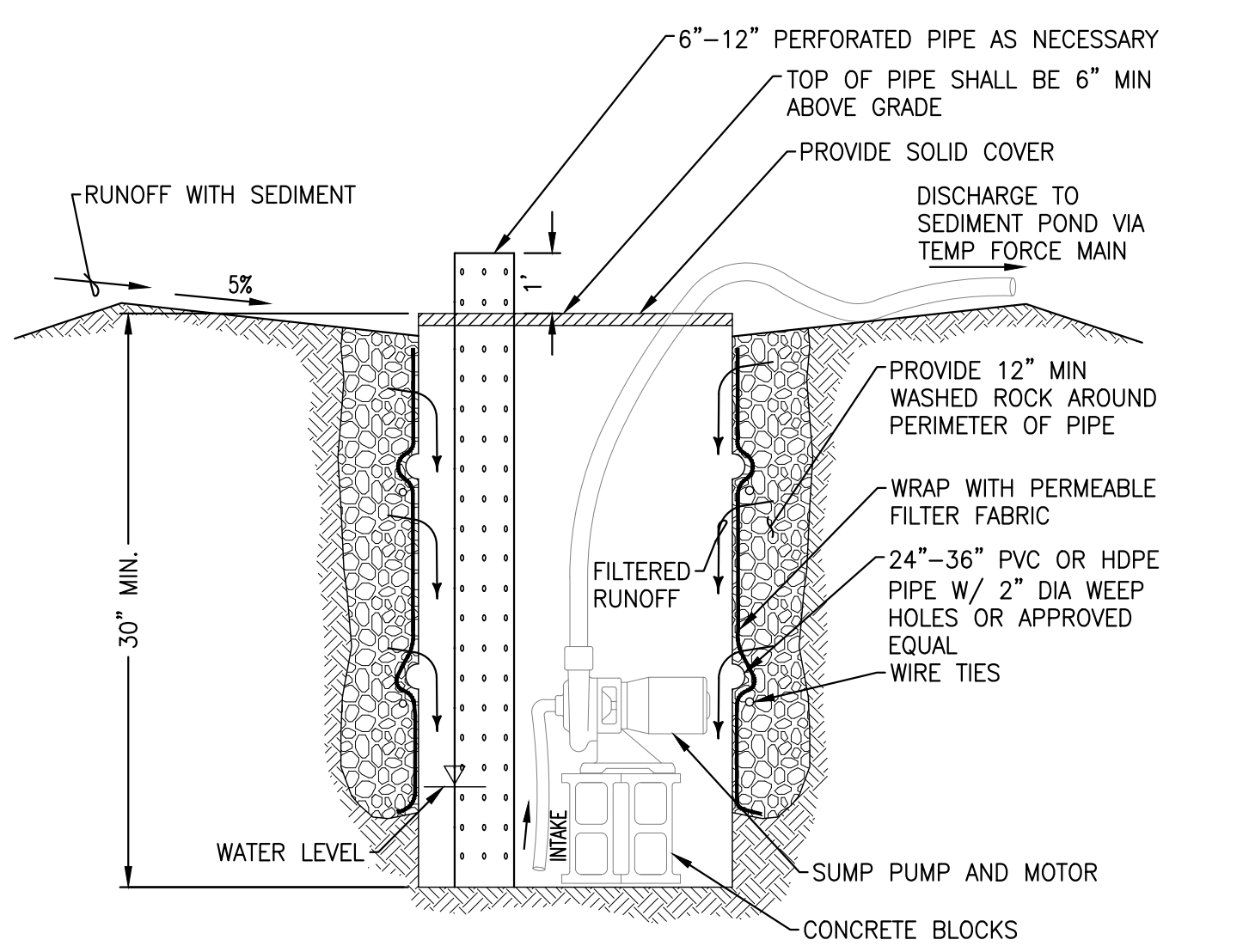
NTS NOT USED 3

NTS NOT USED 7



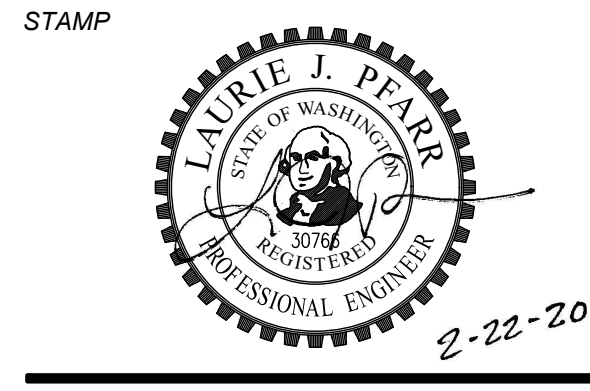
SCHEMATIC DETAIL  
 PROVIDE "STREAMGUARD SEDIMENT CATCH BASIN INSERT" OR APPROVED EQUAL  
 MANUFACTURER'S NAME: BOWHEAD ENVIRONMENTAL & SAFETY  
 ADDRESS: P.O. BOX 375 PRESTON, WA 98050  
 TELEPHONE: FOR INFORMATION: (800) 909-3677  
 WWW.SHOPBOWHEAD.COM

NTS CATCH BASIN PROTECTION 11



NTS SUMP AND PUMP 8

NTS NOT USED 4



**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040  
 SUBMITTAL

**100% CONSTRUCTION DOCUMENTS**

FEBRUARY 24, 2023

REVISIONS		
No.	Description	Date
▲	BUILDING PERMIT RESUBMITTAL	10/27/22
▲	BUILDING PERMIT RESUBMITTAL 2	01/06/22
▲	BUILDING PERMIT RESUBMITTAL 3	02/24/23

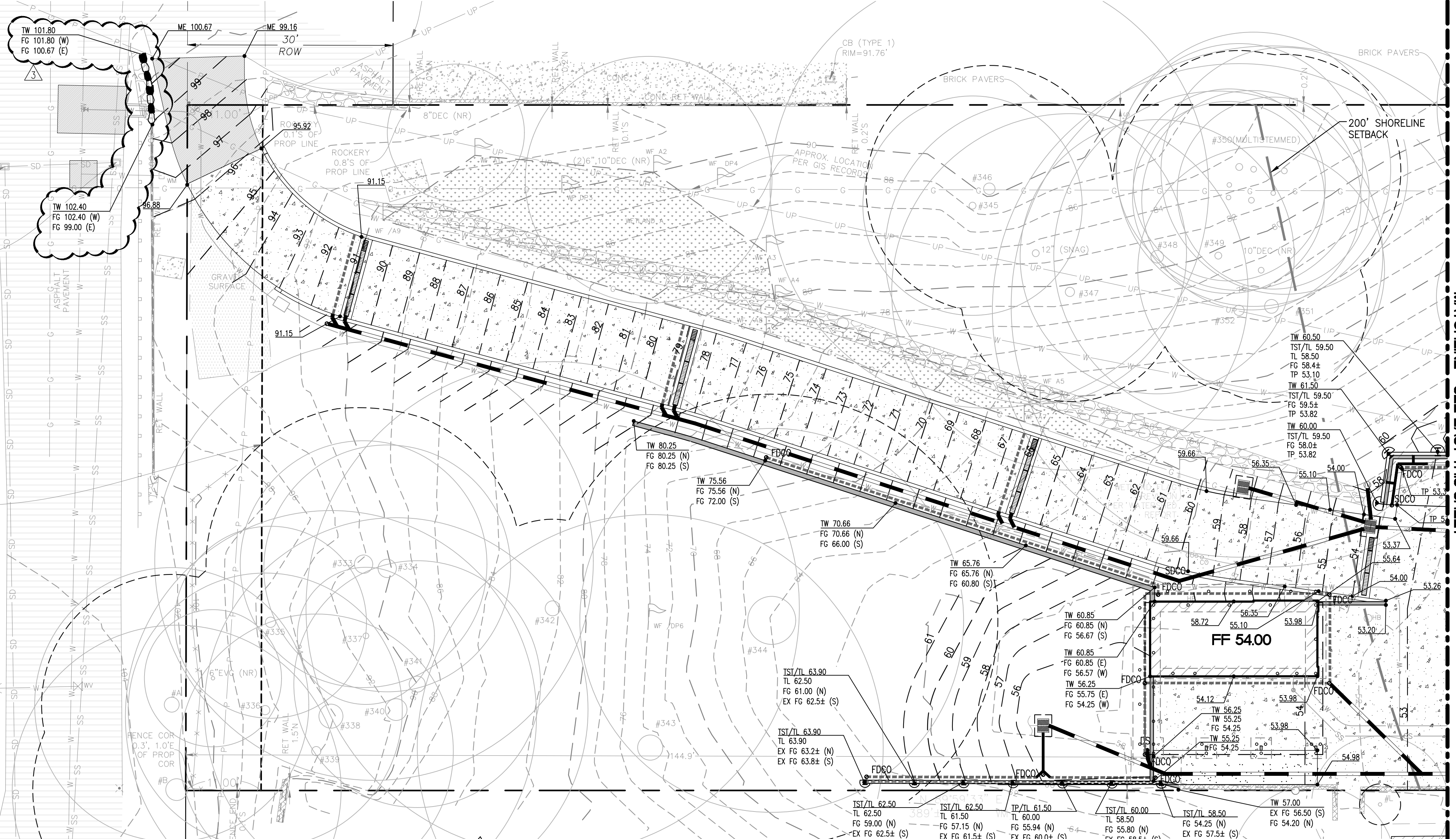
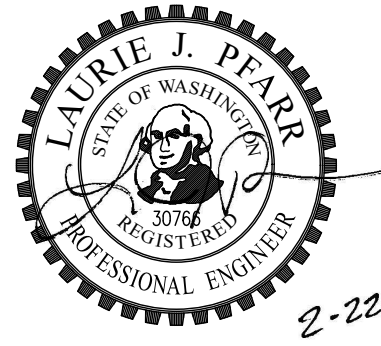
Drawn: EVW  
 Checked: ACW  
 M/JH Proj No.: A20.0085.00  
 Issue Date: FEBRUARY 24, 2023

**TESC DETAILS**

**C102**

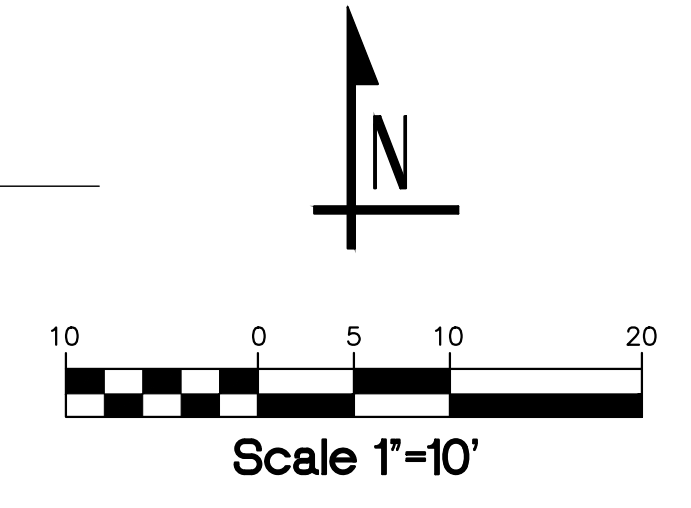
NTS NOT USED 12

STAMP

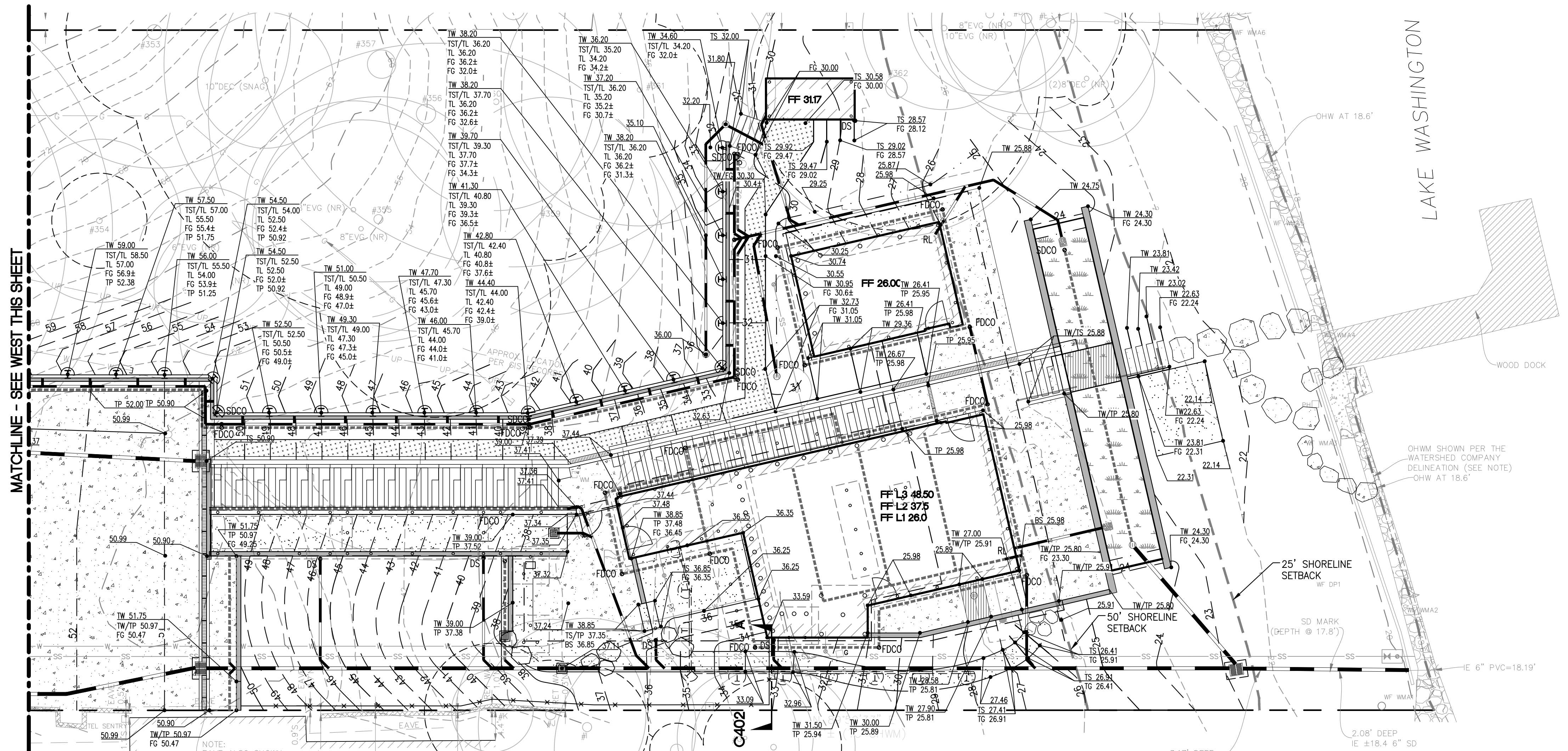


**LEGEND**

- 230 — PROPERTY LINE
- - - 230 - - - EX CONTOUR (INDEX)
- - - 231 - - - EX CONTOUR
- - - 230 - - - PROPOSED CONTOUR (INDEX)
- - - 231 - - - PROPOSED CONTOUR
- SPOT ELEVATION
- 230 — TOP OF PAVE, TOP OF WALL, FINISHED GRADE
- 231 — TOP OF STEP, BOTTOM STEP, MATCH EX
- FF 78.0 FINISHED FLOOR ELEVATION
- [Hatched Box] EX BUILDING
- [Hatched Box] PROPOSED BUILDING
- [Dotted Box] CONCRETE PAVEMENT
- [Cross-hatched Box] ASPHALT (AC) PAVEMENT
- [Dotted Box] EX ASPHALT (AC) PAVEMENT
- [Dotted Box] GRAVEL SURFACING PER LA
- [Dotted Box] PAVERS PER LA
- [Dotted Box] GRASSPAVE PER LA
- [Solid Line] SITE WALL
- [Dashed Line] TRENCH/CHANNEL DRAIN
- [Dotted Box] BIORETENTION POND
- [Dotted Box] QUARRY SPALL DISCHARGE PAD
- [Dotted Box] AREA/YARD DRAIN
- [Dotted Box] CATCH BASIN TYPE 1
- [Dotted Box] STORM DRAINAGE PIPE
- - - FOOTING/SUBSURFACE DRAIN
- SDCO • STORM DRAIN CLEANOUT
- FDCO • FOOTING DRAIN CLEANOUT
- DS • DOWNSPOUTS
- SS SIDE SEWER PIPE
- SEWER CLEANOUT
- SS SIDE SEWER CONNECTION
- W WATER SERVICE LINES



MATCHLINE - SEE EAST THIS SHEET



MATCHLINE - SEE WEST THIS SHEET

LAKE WASHINGTON

**MERCER ISLAND HOUSE: CASCADE**

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MERCER ISLAND, WA 98040

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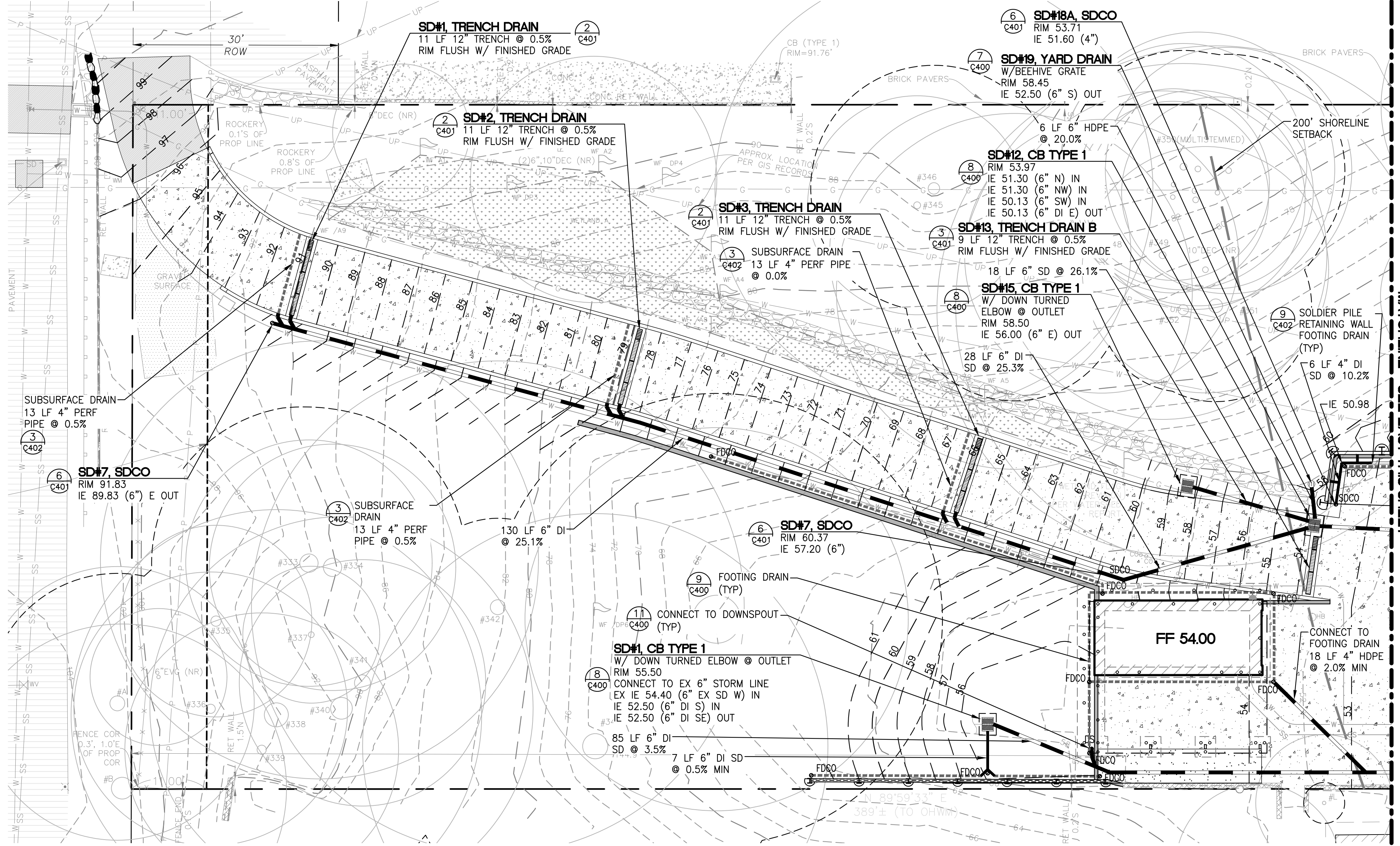
Drawn: EWV  
Checked: ACW  
M/H Proj No.: A20.0085.00  
Issue Date: FEBRUARY 24, 2023

SHEET

**GRADING PLAN**

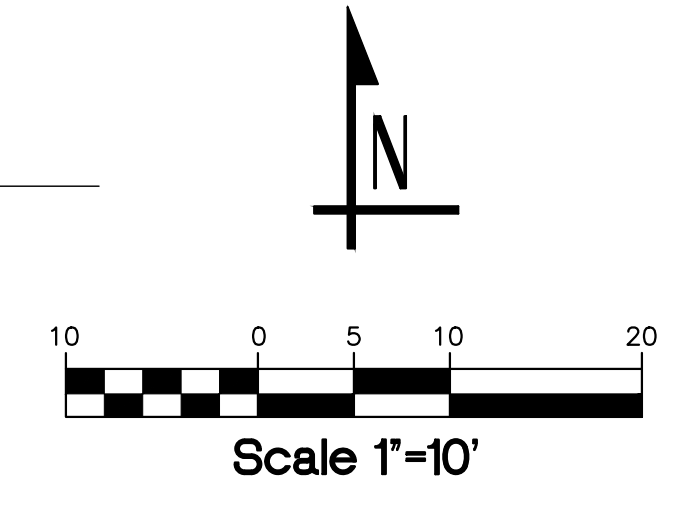
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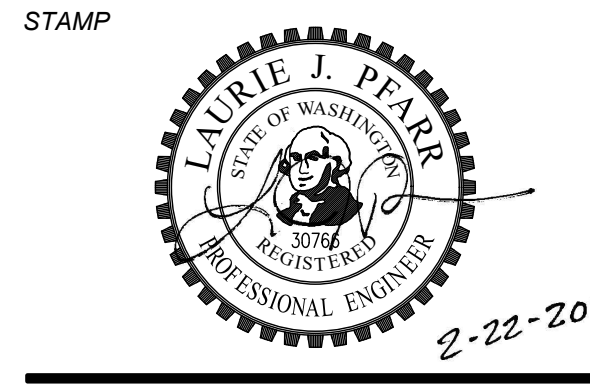
**LEGEND**

- PROPERTY LINE
- - - EX CONTOUR (INDEX)
- - - EX CONTOUR
- - - PROPOSED CONTOUR (INDEX)
- - - PROPOSED CONTOUR
- SPOT ELEVATION
- TOP OF PAVE, TOP OF WALL, FINISHED GRADE
- TOP OF STEP, BOTTOM STEP, MATCH EX
- FF 78.0 FINISHED FLOOR ELEVATION
- ▨ EX BUILDING
- ▨ PROPOSED BUILDING
- ▨ CONCRETE PAVEMENT
- ▨ ASPHALT (AC) PAVEMENT
- ▨ EX ASPHALT (AC) PAVEMENT
- ▨ GRAVEL SURFACING PER LA
- ▨ PAVERS PER LA
- ▨ GRASSPAVE PER LA
- ▨ SITE WALL
- ▨ TRENCH/CHANNEL DRAIN
- ▨ BIORETENTION POND
- ▨ QUARRY SPALL DISCHARGE PAD
- ▨ AREA/YARD DRAIN
- ▨ CATCH BASIN TYPE 1
- ▨ STORM DRAINAGE PIPE
- ▨ FOOTING/SUBSURFACE DRAIN
- ▨ SDCO • STORM DRAIN CLEANOUT
- ▨ FDCO • FOOTING DRAIN CLEANOUT
- ▨ DS • DOWNSPOUTS
- ▨ SS • SIDE SEWER PIPE
- ▨ SEWER CLEANOUT
- ▨ SIDE SEWER CONNECTION
- ▨ W • WATER SERVICE LINES

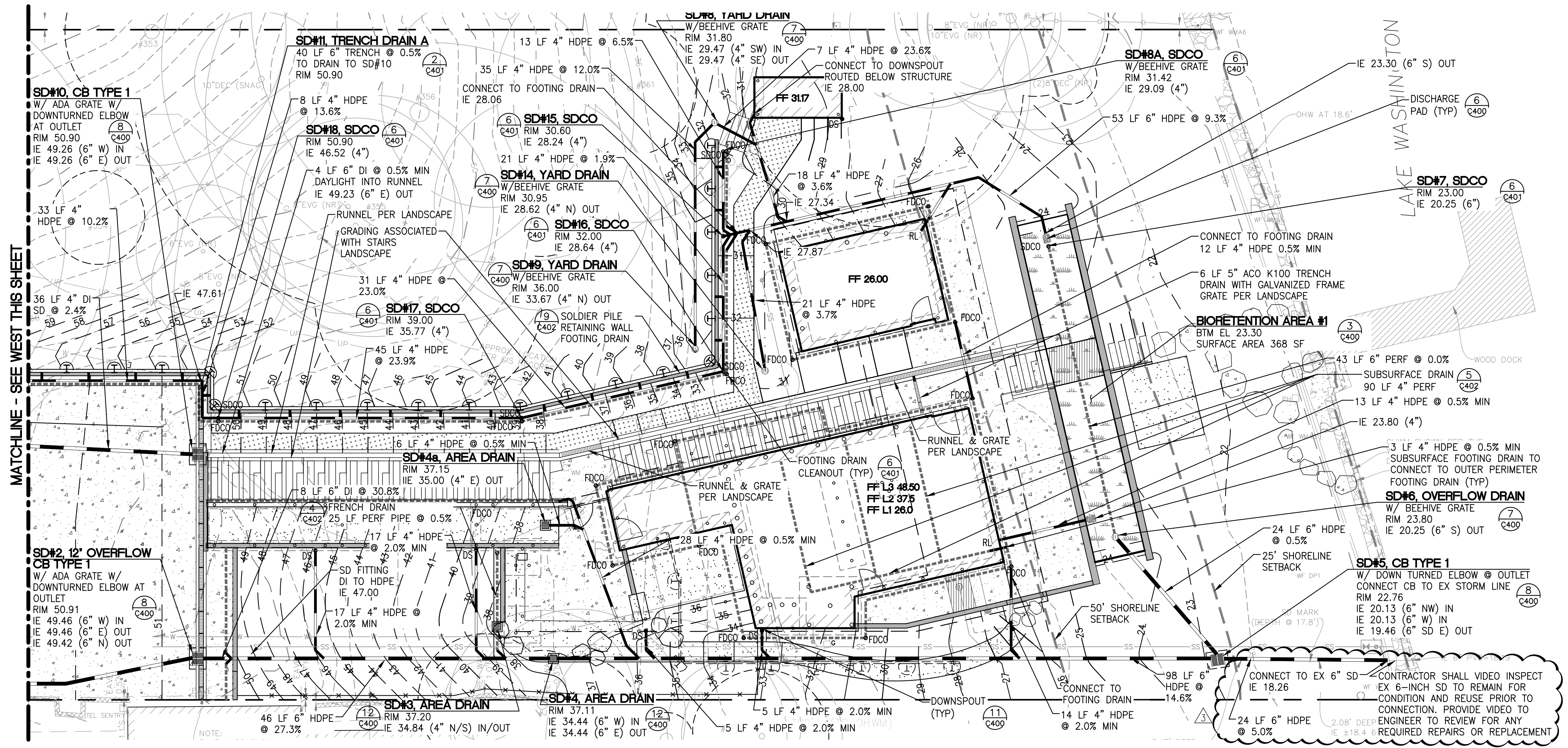


**MILLER HULL**  
 The Miller Hull Partnership, LLP  
 Architecture and Planning  
 Poison Building  
 71 Columbia, Sixth Floor  
 Seattle, WA 98104  
 Phone: 206.682.6837  
 Contact: Name

**LPD** engineering pllc  
 1932 First Ave  
 Suite 201  
 Seattle, WA 98101  
 p. 206.725.1211  
 f. 206.973.5344  
 www.lpdengineering.com



MATCHLINE - SEE EAST THIS SHEET



MATCHLINE - SEE WEST THIS SHEET

**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040  
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FEBRUARY 24, 2023

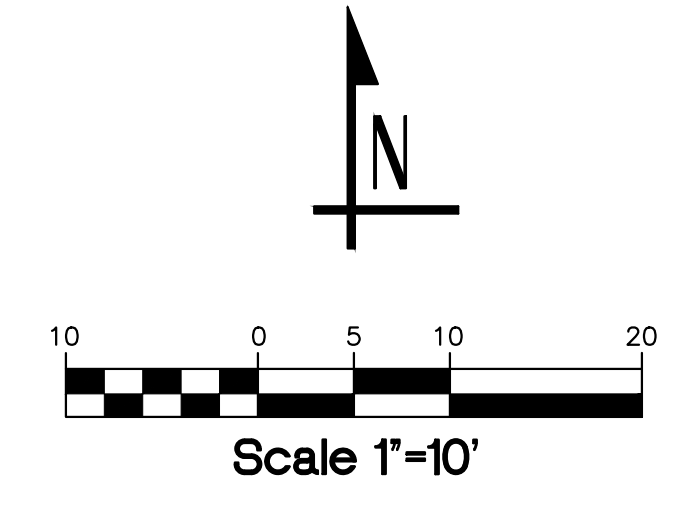
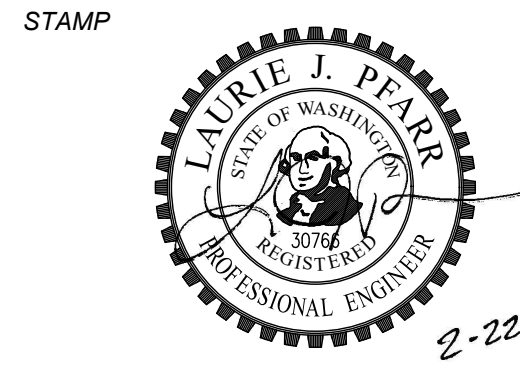
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Drawn: EVW  
 Checked: ACW  
 M/H Proj No.: A20.0085.00  
 Issue Date: FEBRUARY 24, 2023

**DRAINAGE PLAN**

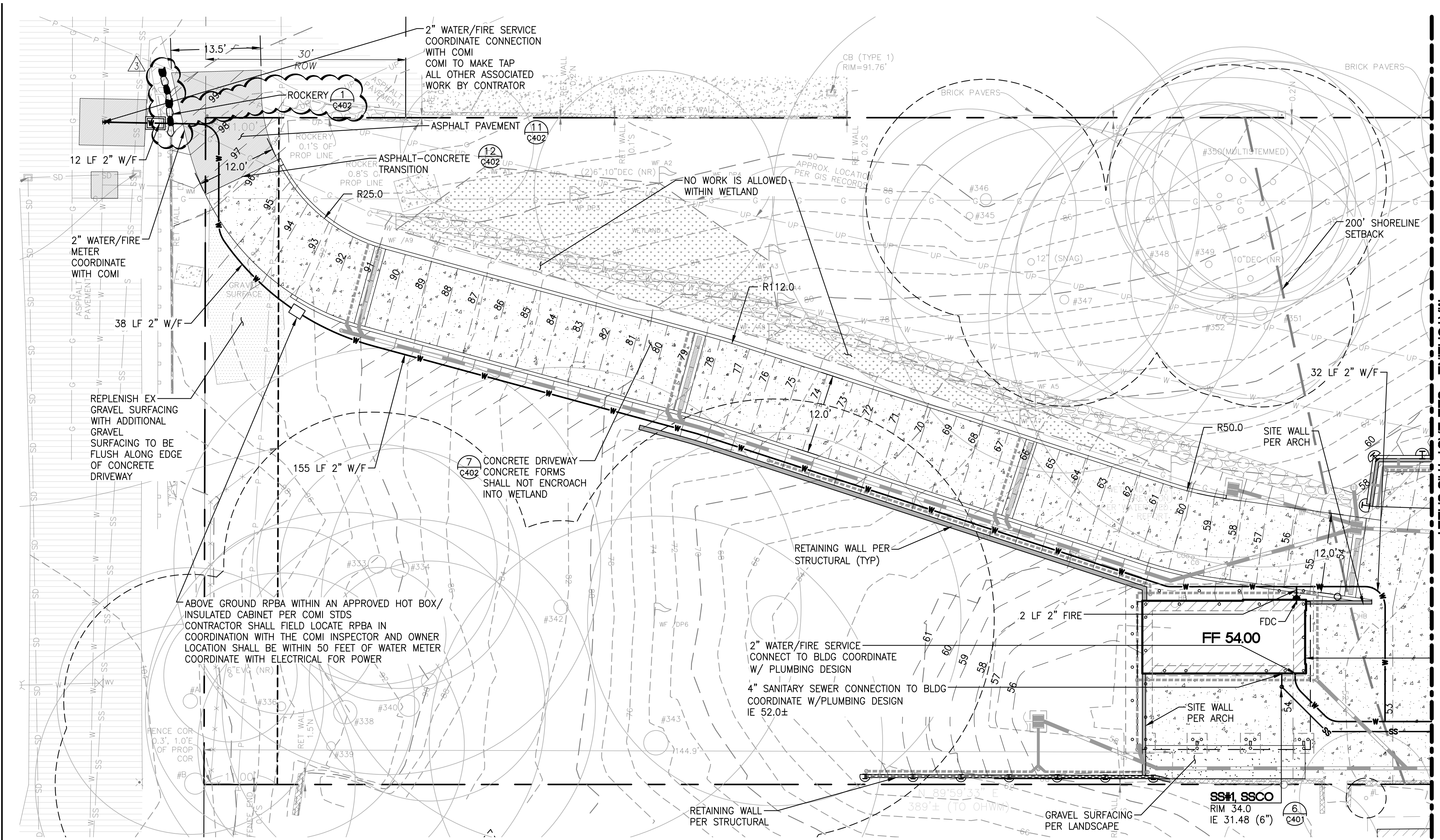
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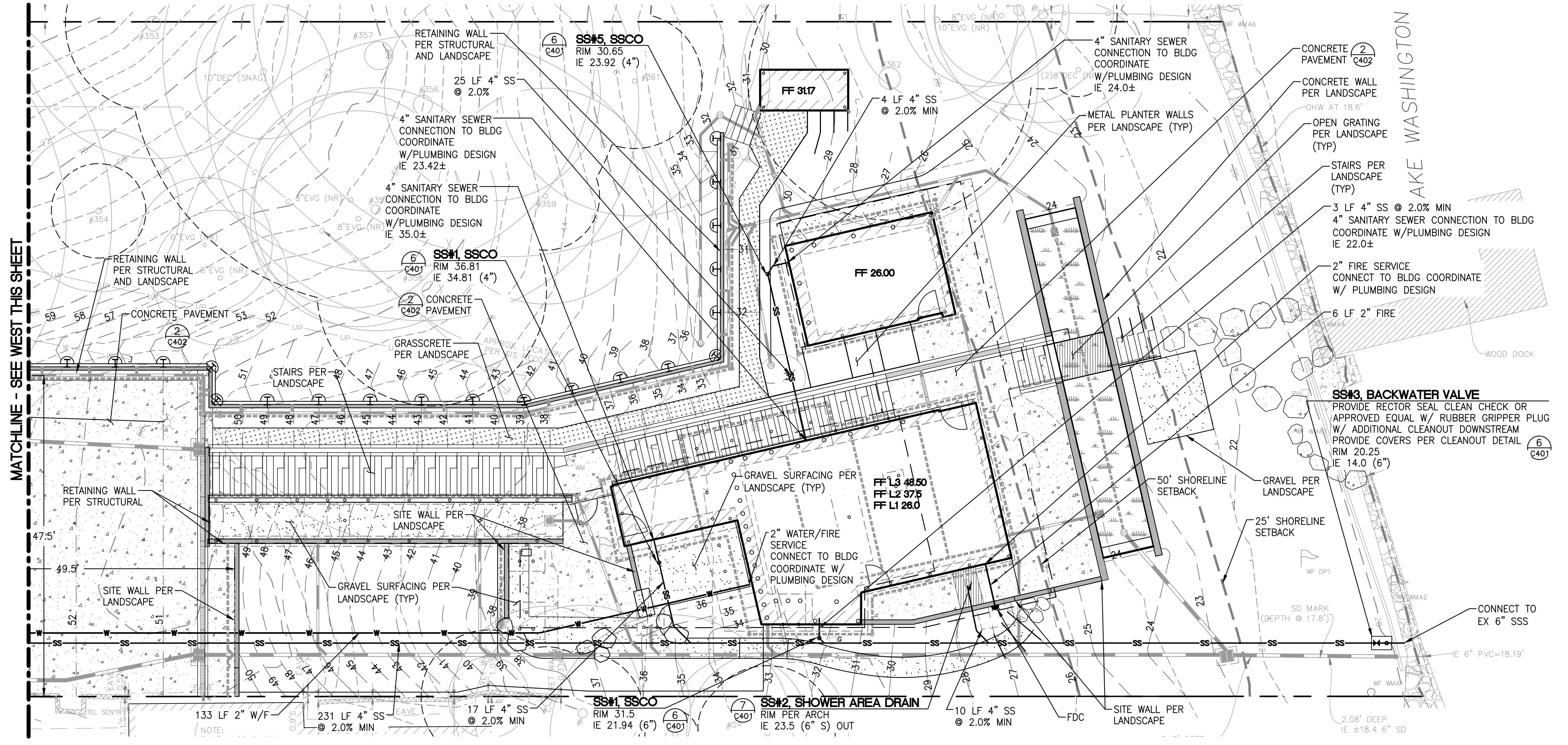


**LEGEND**

- PROPERTY LINE
- - - EX CONTOUR (INDEX)
- - - EX CONTOUR
- - - PROPOSED CONTOUR (INDEX)
- - - PROPOSED CONTOUR
- FF 78.0** FINISHED FLOOR ELEVATION
- [Hatched Box] EX BUILDING
- [Hatched Box] PROPOSED BUILDING
- [Dotted Box] CONCRETE PAVEMENT
- [Horizontal Lines Box] ASPHALT (AC) PAVEMENT
- [Horizontal Lines Box] EX ASPHALT (AC) PAVEMENT
- [Dotted Box] GRAVEL SURFACING PER LA
- [Dotted Box] PAVERS PER LA
- [Dotted Box] GRASSPAVE PER LA
- [Solid Line] SITE WALL
- [Dashed Line] TRENCH/CHANNEL DRAIN
- [Dotted Box] BIORETENTION POND
- [Dotted Box] QUARRY SPALL DISCHARGE PAD
- [Dotted Box] AREA/YARD DRAIN
- [Dotted Box] CATCH BASIN TYPE 1
- [Arrow] STORM DRAINAGE PIPE
- [Dotted Box] FOOTING/SUBSURFACE DRAIN
- [Dotted Box] STORM DRAIN CLEANOUT
- [Dotted Box] FOOTING DRAIN CLEANOUT
- [Dotted Box] DOWNSPOUTS
- [Line with 'SS'] SIDE SEWER PIPE
- [Line with 'S'] SEWER CLEANOUT
- [Line with 'S'] SIDE SEWER CONNECTION
- [Line with 'W'] WATER SERVICE LINES



MATCHLINE - SEE EAST THIS SHEET



MATCHLINE - SEE WEST THIS SHEET



**MERCER ISLAND HOUSE: CASCADE**

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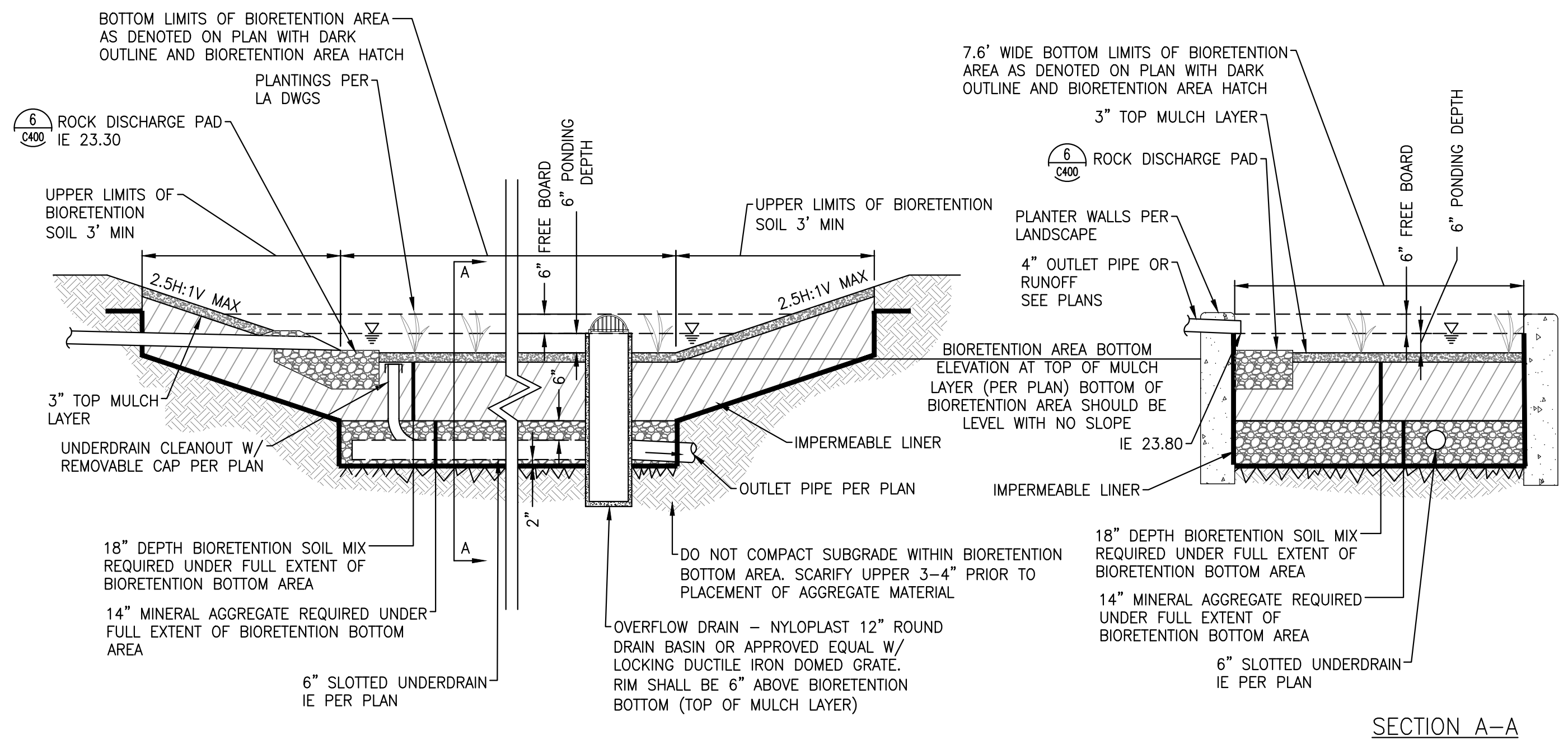
SHEET

**UTILITIES & PAVING PLAN  
C300**

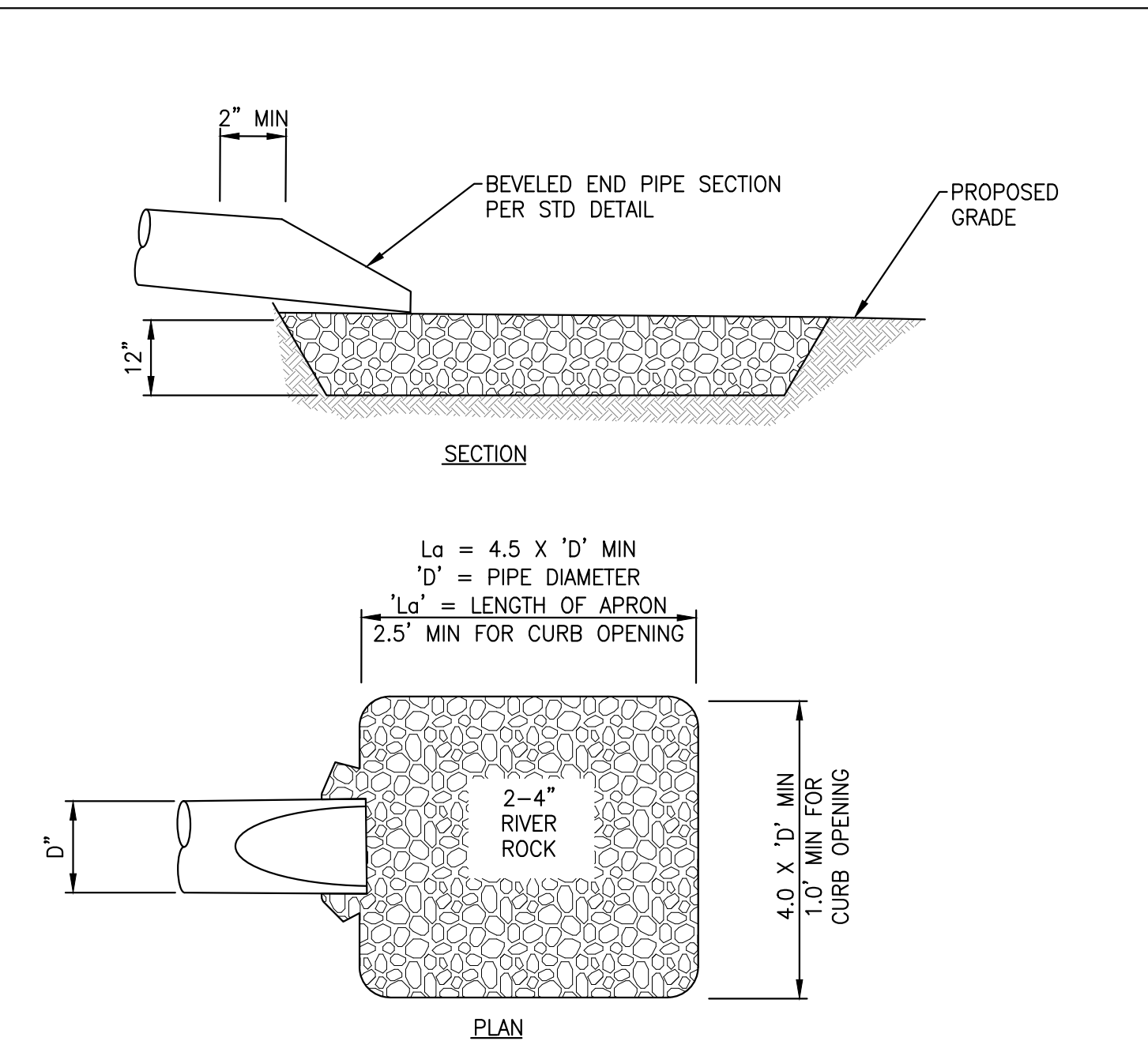


**CONSTRUCTION SEQUENCE FOR BIORETENTION AREA**

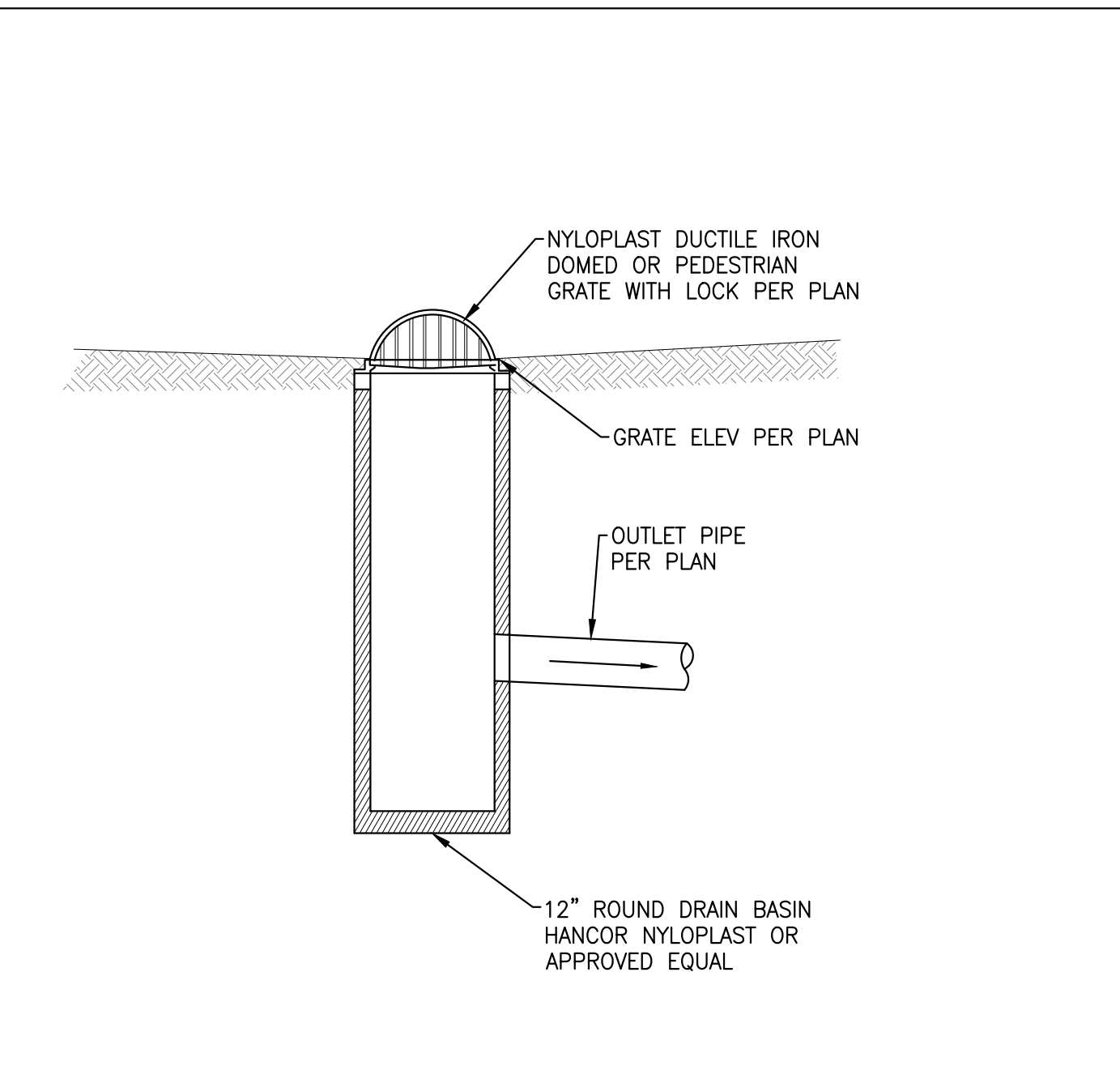
1. INSTALL TEMPORARY SEDIMENT CONTROL BMP'S AS SHOWN ON PLAN.
2. COMPLETE SITE GRADING, PROVIDE PROTECTION SO THAT DRAINAGE IS PROHIBITED FROM ENTERING BIORETENTION CONSTRUCTION AREA.
3. SITE STABILIZATION TO BE COMPLETE PRIOR TO INSTALLATION OF BIORETENTION AREA. BIORETENTION AREAS THAT WERE USED AS TEMPORARY SEDIMENT TRAPS SHOULD BE EXCAVATED 12 INCHES BELOW THE BOTTOM OF THE SEDIMENT TRAP PRIOR TO CONSTRUCTION OF BIORETENTION AREA.
4. EXCAVATE BIORETENTION AREA TO PROPOSED DEPTH AND SCARIFY THE TOP 3"-4" OF EXISTING SOIL SURFACES.
5. INSTALL IMPERVIOUS LINER. SLIT LINER AND OVERLAP 12" OVER OUTLET PIPE.
6. INSTALL PVC SLOTTED UNDERDRAIN PIPE AND MINER AGGREGATE PER PLAN. SEE STORM DRAIN SPECS FOR SLOT DIMENSIONS.
7. BACKFILL BIORETENTION AREA WITH AGGREGATE MATERIAL AND BIORETENTION SOIL MIX, OVERFILLING IS RECOMMENDED TO ACCOUNT FOR SETTLEMENT. LIGHT HAND TAMPING IS ACCEPTABLE IF NECESSARY.
8. BIORETENTION SOIL MIX SHALL CONSIST OF THE FOLLOWING:
  - AGGREGATE TO COMPOST RATIO: 60% MINERAL AGGREGATE (WITH LESS THAN 5% FINES), 40% COMPOST (MEET REQUIREMENTS IN WAC 173-350-220)
  - TOTAL BIORETENTION SOIL MIX ORGANIC CONTENT SHALL BE 4-8% (BY DRY WEIGHT)
  - BIORETENTION SOIL DEPTH SHALL BE A MINIMUM OF 18-INCHES
  - BIORETENTION SOIL MIX SHALL HAVE A MINIMUM INFILTRATION RATE OF 6"/HR
9. PRESOAK THE PLANTING SOIL PRIOR TO PLANTING VEGETATION TO AID IN SETTLEMENT.
10. COMPLETE FINAL GRADING TO ACHIEVE PROPOSED DESIGN ELEVATIONS. LEAVE SPACE FOR UPPER LAYER OF MULCH AS SPECIFIED ON PLANS.
11. PLANT VEGETATION ACCORDING TO PLANTING PLAN.
12. MULCH AND INSTALL EROSION PROTECTION AT SURFACE FLOW ENTRANCES WHERE NECESSARY UNTIL ENTIRE SITE IS STABILIZED. MULCH MUST BE WOOD CHIPS CONSISTING OF SHREDDED OR CHIPPED HARDWOOD. MULCH SHOULD NOT CONTAIN WEED SEEDS, GRASS CLIPPINGS, AND LARGE CHUNKS OF BARK.
13. CONTRACTOR IS RESPONSIBLE FOR KEEPING BIORETENTION SOIL SEDIMENT FREE AFTER INSTALLATION AND UPON COMPLETION OF CONSTRUCTION, AND ANY SEDIMENT CONTAMINATED BIORETENTION SOIL SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.



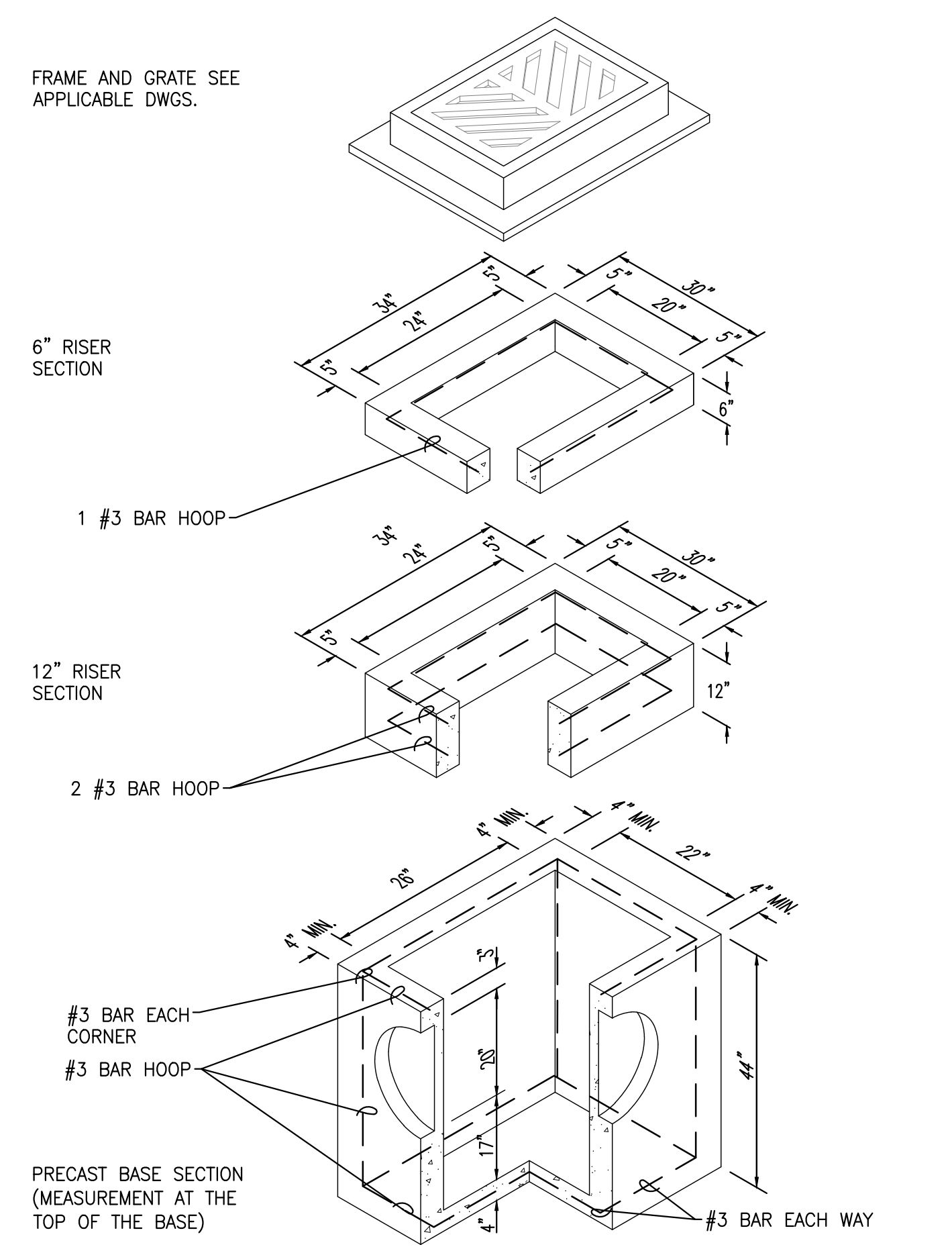
SECTION A-A  
BIORETENTION AREA NTS 3



DISCHARGE PAD NTS 6

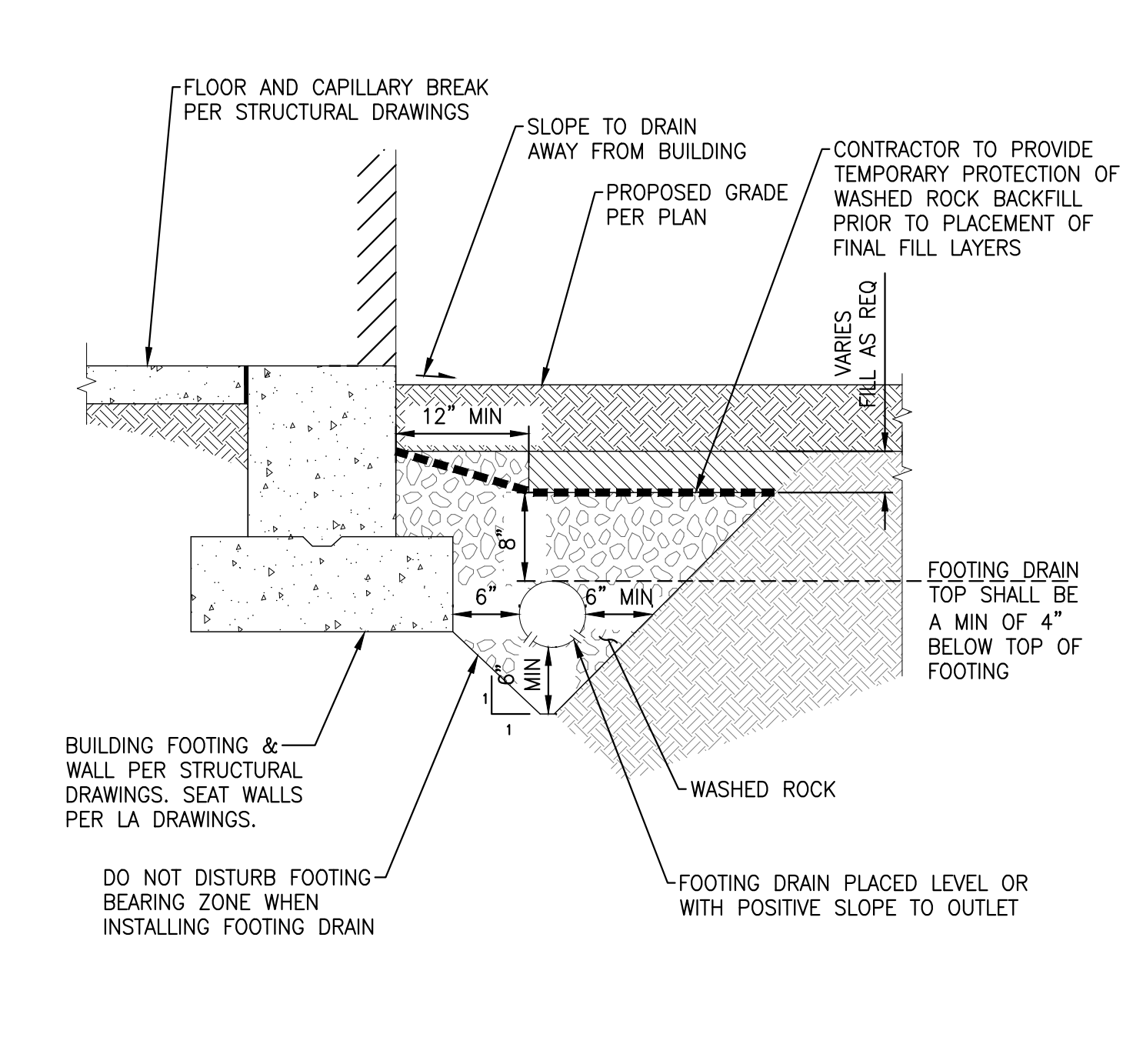


YARD/OVERFLOW DRAIN NTS 7



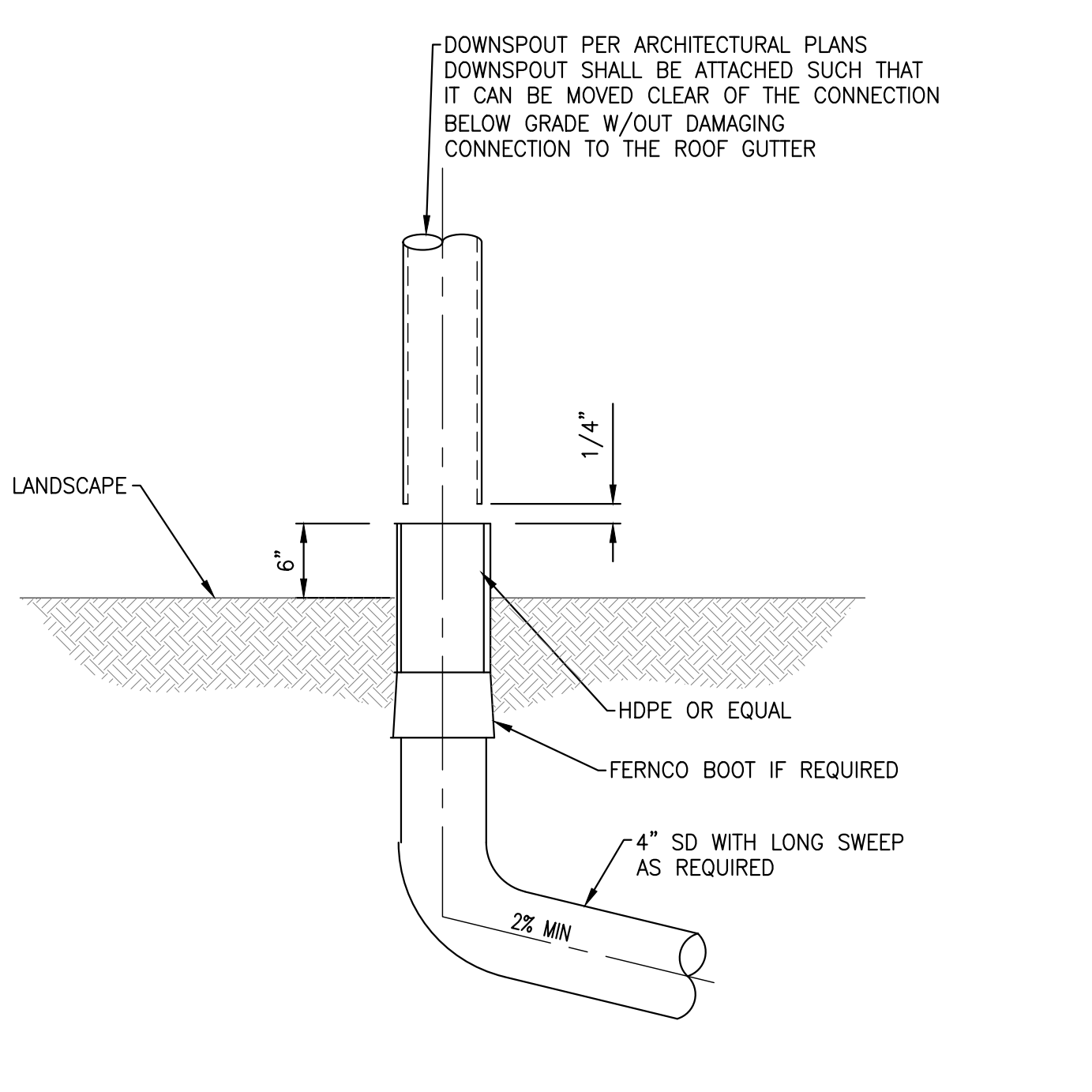
- NOTES:
1. CATCH BASINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C478 (AASHTO M 199) & C890 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT/APWA STANDARD SPECIFICATIONS.
  2. AS AN ACCEPTABLE ALTERNATIVE TO REBAR, WELDED WIRE FABRIC HAVING A MIN. AREA OF 0.12 SQUARE INCHES PER FOOT MAY BE USED. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A497 (AASHTO M 221). WIRE FABRIC SHALL NOT BE PLACED IN KNOCKOUTS.
  3. ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
  4. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
  5. ROUND KNOCKOUTS MAY BE ON ALL 4 SIDES, WITH MAX. DIA. OF 20". KNOCKOUTS MAY BE EITHER ROUND OR "D" SHAPE.
  6. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIA. PLUS CATCH BASIN WALL THICKNESS.
  7. THE MAX. DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5'-0".
  8. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2"/FT.
  9. CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-62ID. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
  10. FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.
  11. FOR CATCH BASINS IN PARKING LOTS REFER TO WSDOT STD PLAN B-5.60-01.
  12. EDGE OF RISER OR BRICK SHALL NOT BE MORE THAN 2" FROM VERTICAL EDGE OF CATCH BASIN WALL.
  13. CATCH BASIN INSTALLATION SHALL BE PER CONTRACT DOCUMENTS AND DETAILS.

CATCH BASIN TYPE 1 NTS 8

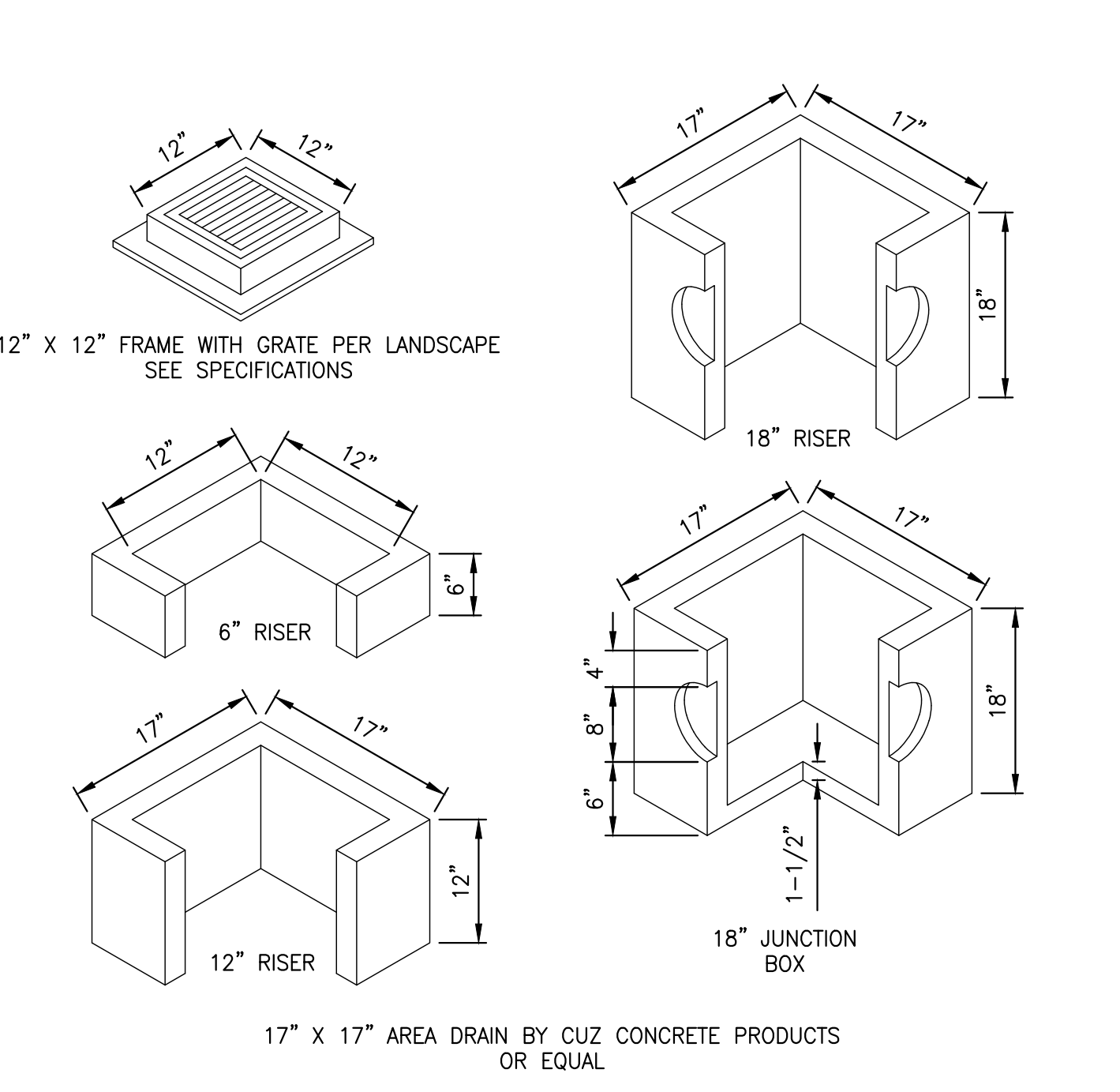


FOOTING DRAIN NTS 9

NOT USED NTS 10



ROOF DOWNSPOUT CONNECTION NTS 11



AREA DRAIN NTS 12

**MERCER ISLAND HOUSE: CASCADE**

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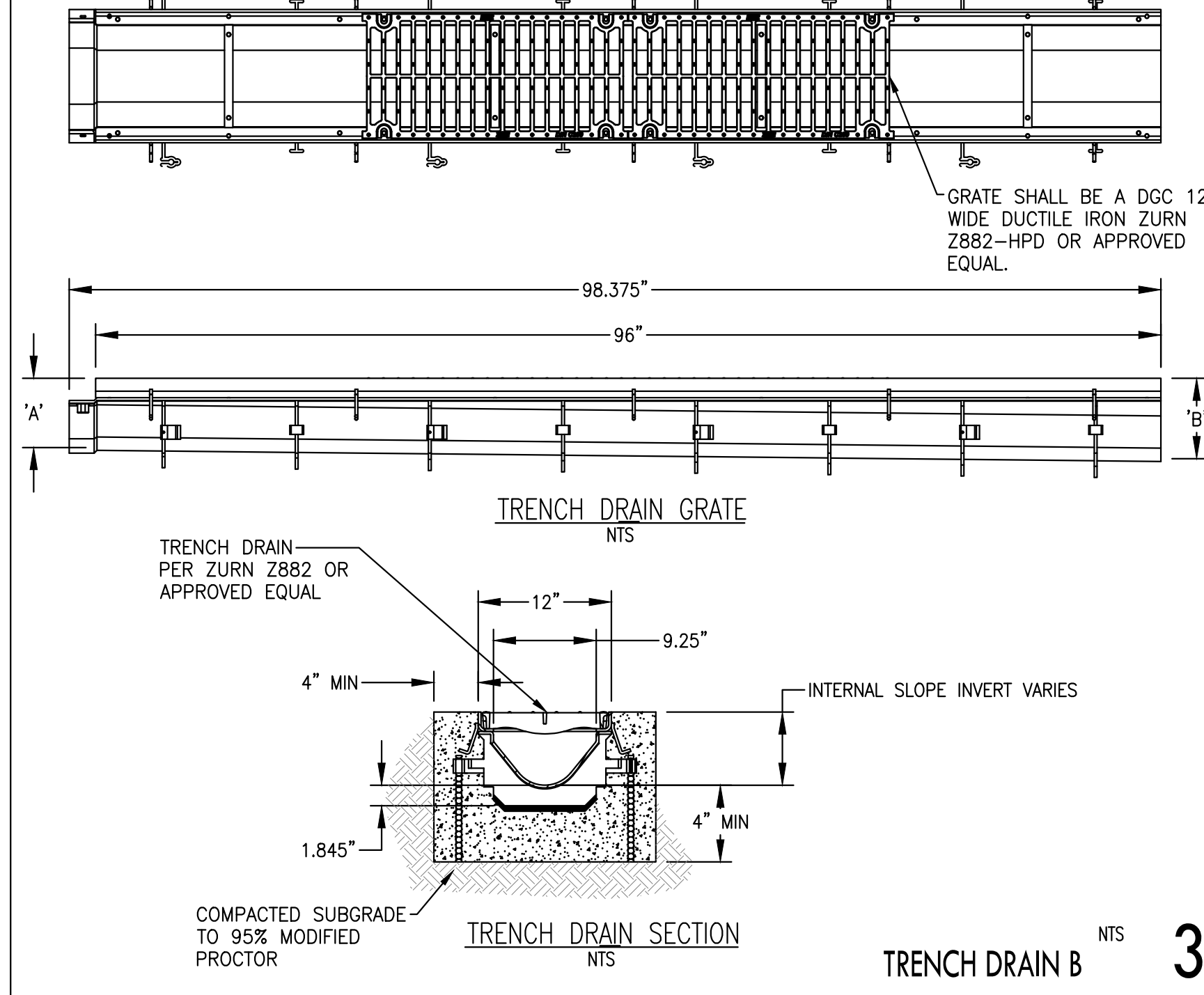
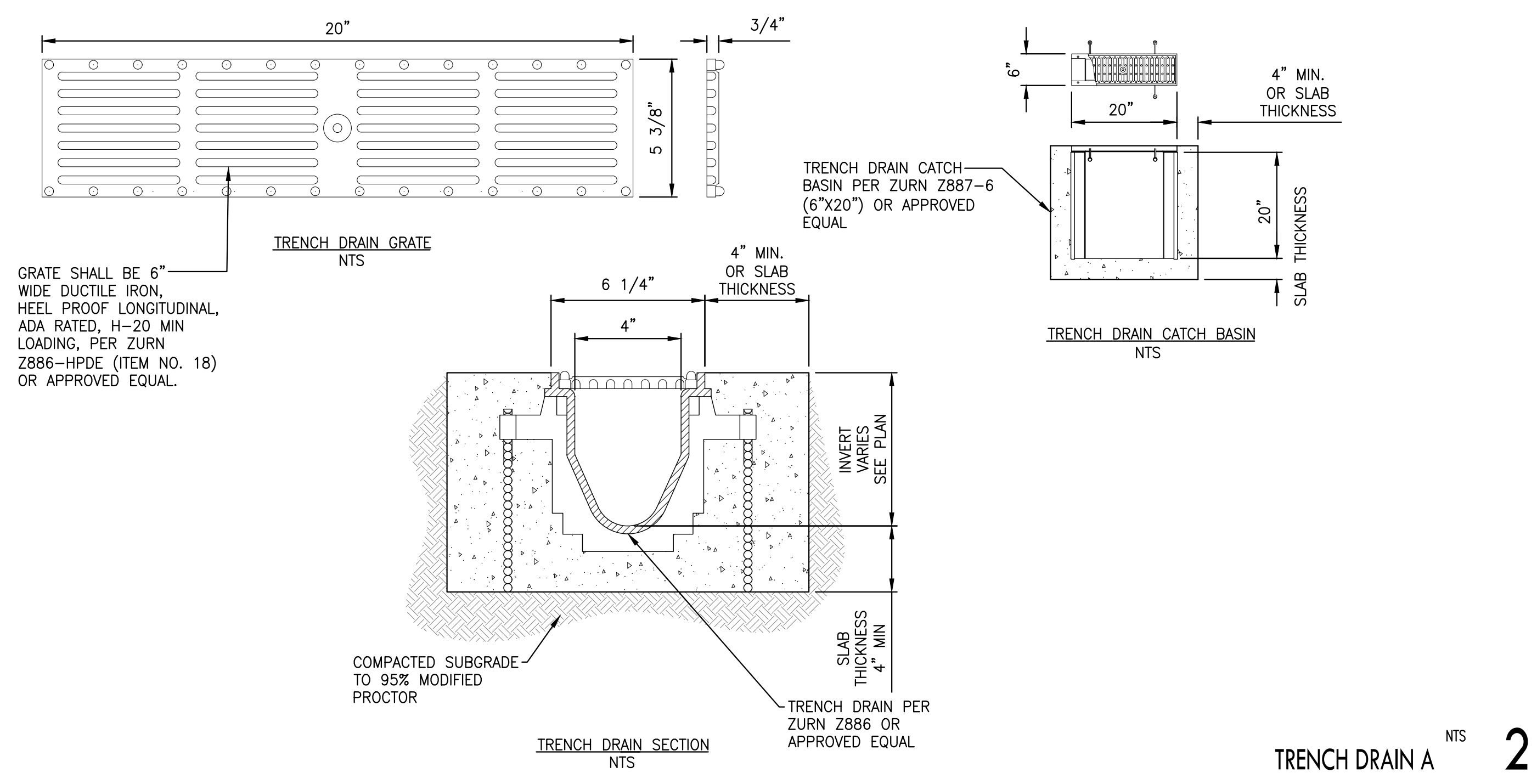
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**DETAILS**

**C400**



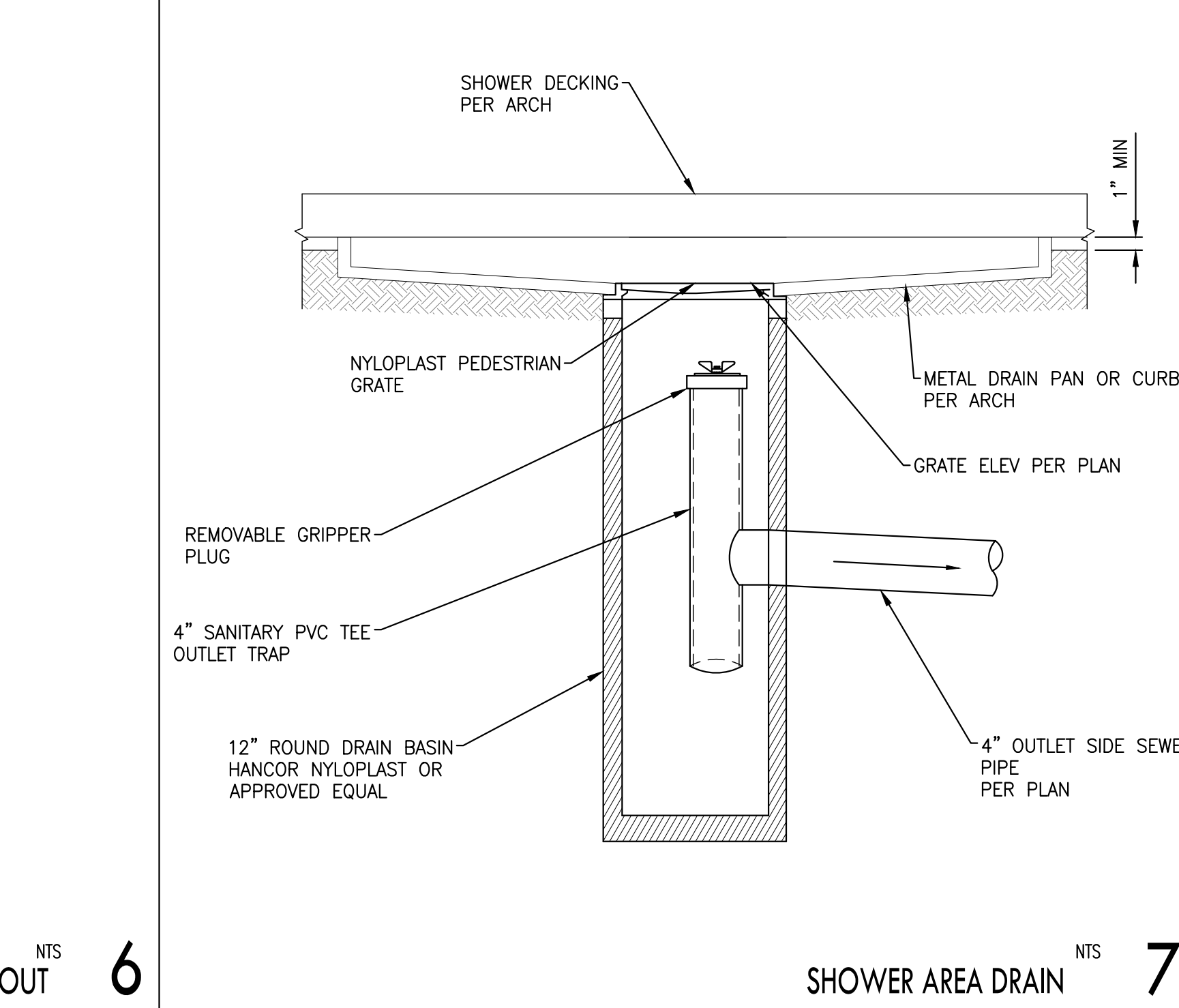
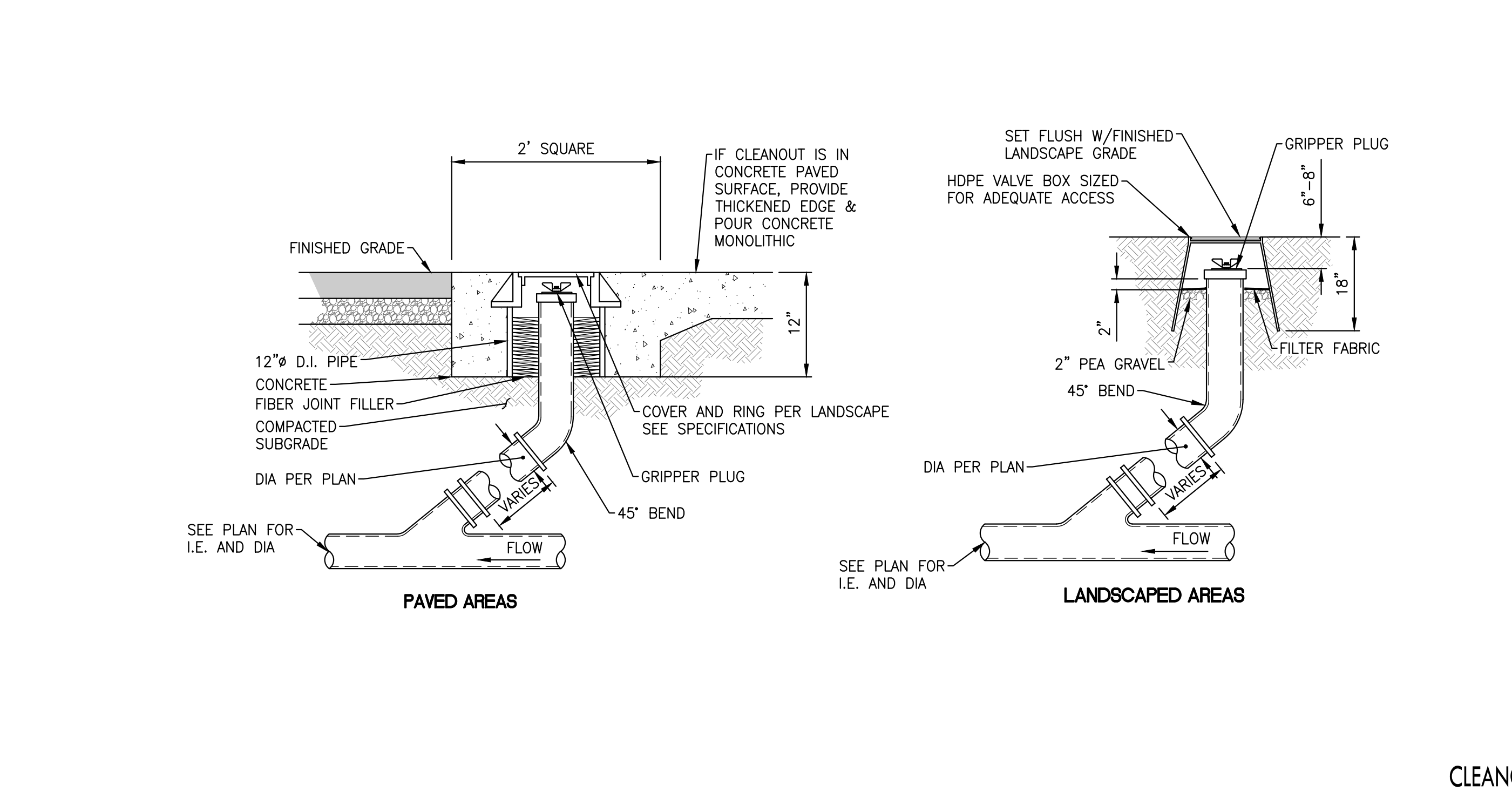
**MERCER ISLAND UTILITY NOTES**

- ALL STAGING AND STORAGE SHALL OCCUR ON SITE.
- A REDUCED PRESSURE BACKFLOW ASSEMBLY (RPBA) INSTALLATION SHALL BE REQUIRED AND INSTALLED 12 INCHES ABOVE GRADE BEHIND THE WATER METER FOR ALL NEW AND DEMO REBUILD SINGLE FAMILY, LAKEFRONT PROJECTS. THE RPBA SHALL BE INSPECTED AT TIME OF INSTALLATION AND AT BUILDING FINAL. (A HOT BOX TO PROTECT THE RPBA ASSEMBLY IS OPTIONAL. A DOUBLE CHECK VALVE ASSEMBLY (DCVA) IS REQUIRED ON ALL FIRE SPRINKLER SYSTEMS.)
- POT HOLEING THE PUBLIC UTILITIES IS REQUIRED PRIOR TO ANY GRADING ACTIVITIES LESS THAN 6" OVER THE PUBLIC MAINS (WATER, SEWER AND STORM SYSTEMS). IF THERE IS A CONFLICT, THE APPLICANT IS REQUIRED TO SUBMIT A REVISION FOR APPROVAL PRIOR TO ANY GRADING ACTIVITIES OVER THE PUBLIC MAINS.
- DO NOT BACKFILL WITH NATIVE MATERIAL ON PUBLIC RIGHT OF WAY. ALL MATERIAL MUST BE IMPORTED.
- REFER TO WATER SERVICE PERMIT FOR ACTUAL LOCATION OF NEW WATER METER AND SERVICE LINE DETERMINED BY MERCER ISLAND WATER DEPARTMENT.
- THE EXISTING WATER SERVICE MUST BE ABANDONED AT THE CITY WATER MAIN WHEN A NEW SERVICE IS INSTALLED. THE HOMEOWNER IS RESPONSIBLE FOR ALL COST ASSOCIATED WITH THE ABANDONMENT OF THE EXISTING WATER SERVICE.
- NO ADS FLEXIBLE PIPE SHALL BE ALLOWED.
- SAND COLLARS ARE REQUIRED FOR GROUTING PVC PIPE TO CONCRETE STRUCTURES. THIS ALSO APPLIES TO ADS N-12 PIPES AND HDPE PIPES.
- OWNER SHALL CONTROL DISCHARGE OF SURFACE DRAINAGE RUNOFF FROM EXISTING AND NEW IMPERVIOUS AREAS IN A RESPONSIBLE MANNER. CONSTRUCTION OF NEW GUTTERS AND DOWNSPOUTS, DRY WELLS, LEVEL SPREADERS OR DOWNSTREAM CONVEYANCE PIPE MAY BE NECESSARY TO MINIMIZE DRAINAGE IMPACT TO YOUR NEIGHBORS. CONSTRUCTION OF MINIMUM DRAINAGE IMPROVEMENTS SHOWN OR CALLED OUT ON THE PLAN DOES NOT IMPLY RELIEF FROM CIVIL LIABILITY FOR YOUR DOWNSTREAM DRAINAGE.
- THE CONTRACTOR MUST POT HOLE ALL UTILITIES PRIOR TO MAKING CONNECTIONS TO VERIFY MATERIAL, DIAMETER, ALIGNMENTS, ETC. PRIOR TO MAKING CONNECTIONS, CONTRACTOR SHALL HAVE ALL NECESSARY PARTS, MATERIALS AND EQUIPMENT ON SITE. CONTACT SITE & UTILITIES INSPECTOR TO VERIFY.
- CATCH BASIN FILTERS SHOULD BE PROVIDED FOR ALL STORM DRAIN CATCH BASINS/INLETS DOWNSLOPE AND WITHIN 500 FEET OF THE CONSTRUCTION AREA. CATCH BASIN FILTERS SHOULD BE DESIGNED BY THE MANUFACTURER FOR USE AT CONSTRUCTION SITES AND APPROVED BY THE CITY INSPECTOR. CATCH BASIN FILTERS SHOULD BE INSPECTED FREQUENTLY, ESPECIALLY AFTER STORM EVENTS. IF THE FILTER BECOMES CLOGGED, IT SHOULD BE CLEANED OR REPLACED.
- THE TV INSPECTION OF THE EXISTING SIDE SEWER TO THE CITY SEWER MAIN IS REQUIRED. IF THE RESULT OF THE TV INSPECTION IS NOT IN SATISFACTORY CONDITION BY THE CITY OF MERCER ISLAND INSPECTOR, THE REPLACEMENT OF THE EXISTING SIDE SEWER IS REQUIRED.
- INFORM THE MERCER ISLAND CITY SITE/UTILITY INSPECTOR AT 206.275-7714 OF THE ANTICIPATED START DATE OF IN-WATER WORK PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- FIELD LOCATE THE SEWER MAIN (LAKELINE) UNDERLYING THE LAKEBED AND MARK CLEARLY PRIOR TO THE START OF CONSTRUCTION. CONTACT THE MERCER ISLAND SITE/UTILITY INSPECTOR AT 206.275-7714 FOR AVAILABLE INFORMATION ABOUT THE LAKELINE AND ASSISTANCE WHERE POSSIBLE WITH IDENTIFYING THE GENERAL LOCATION OF THE LAKELINE PRIOR TO CONSTRUCTION. GIS MAPPING MAY BE AVAILABLE BY CALLING 206.236-3471. THE APPLICANT SHALL BE RESPONSIBLE OF ANY DAMAGE TO SAID SEWER MAIN RESULTING FROM CONSTRUCTION.

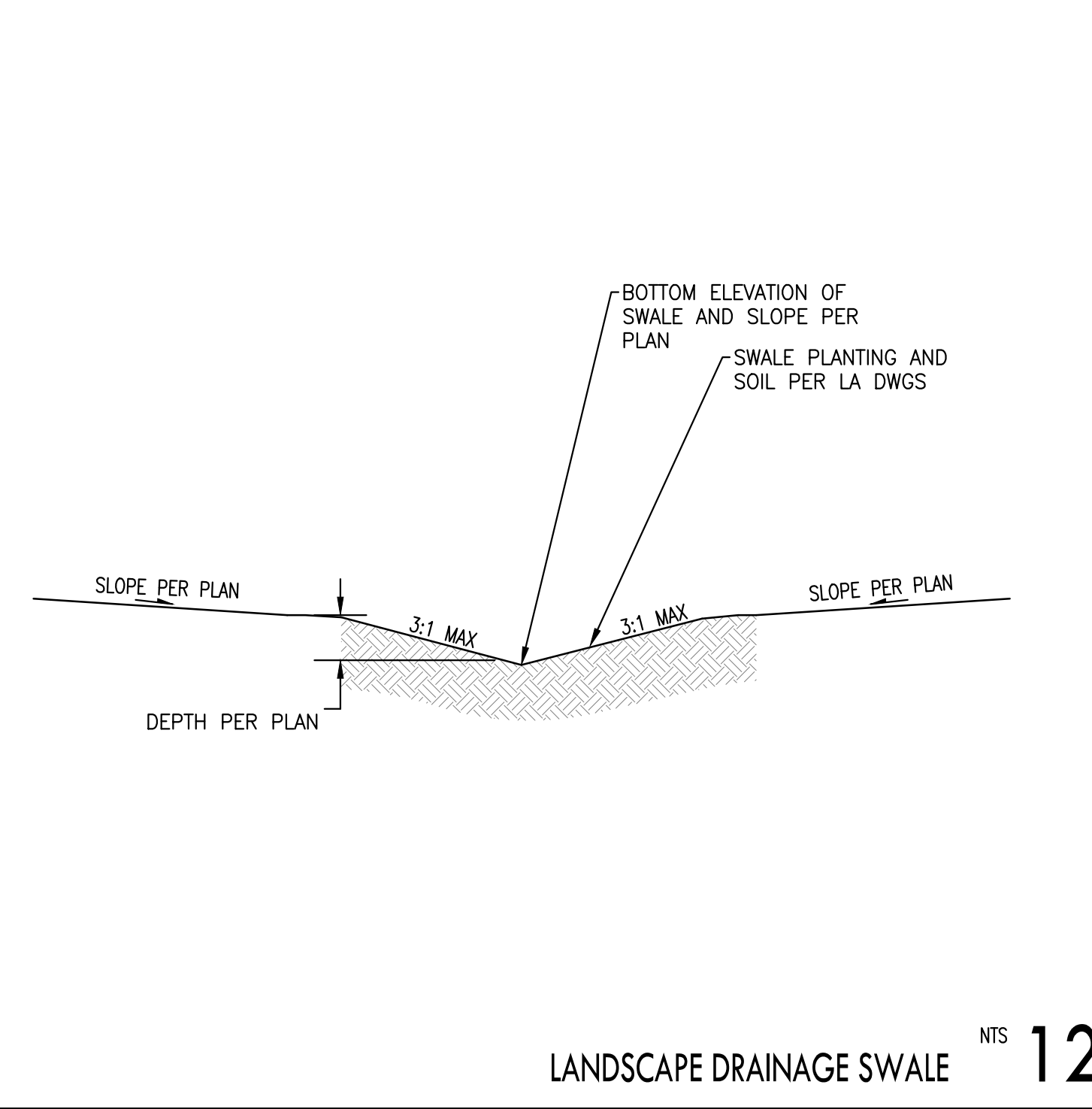
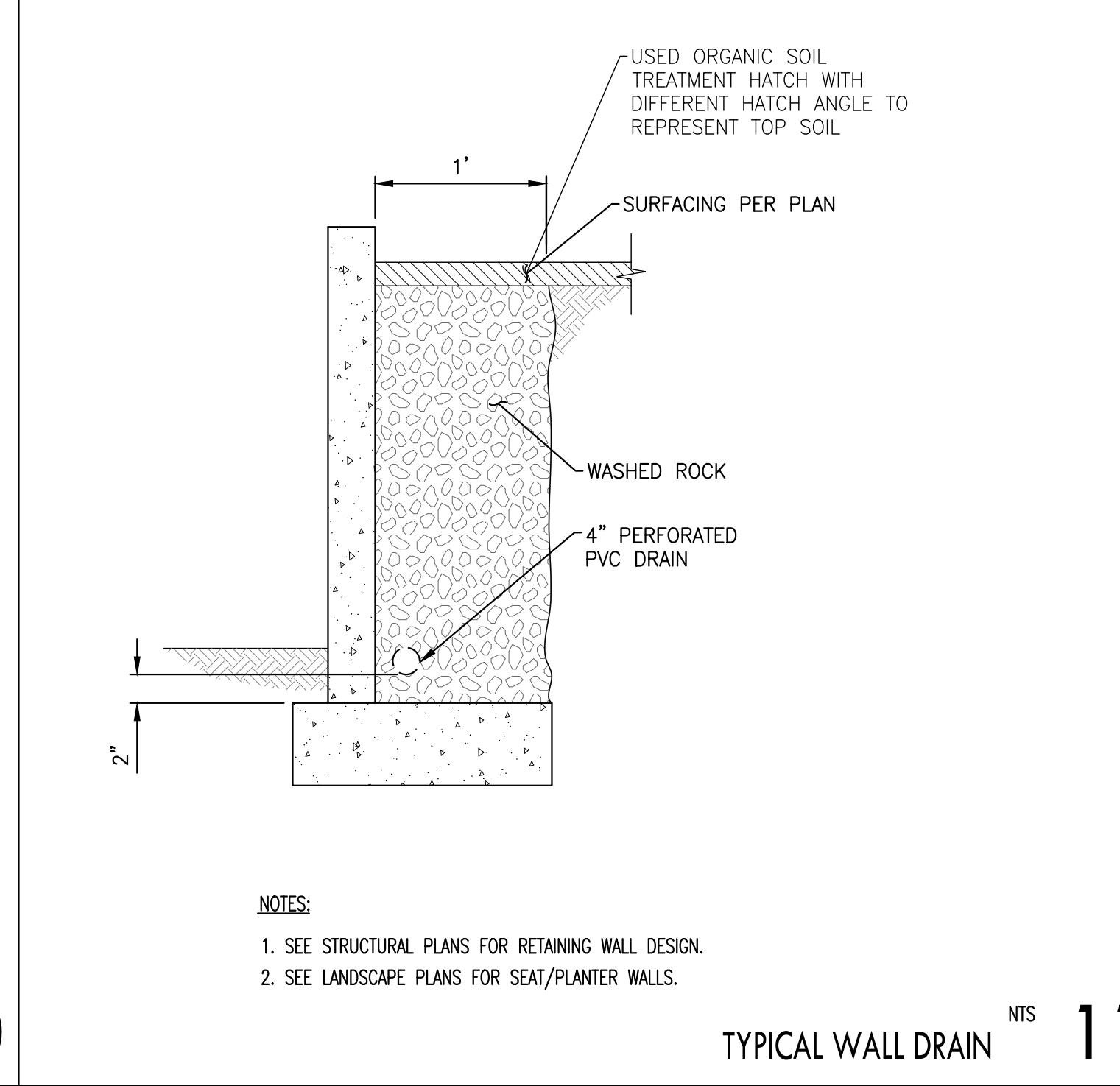
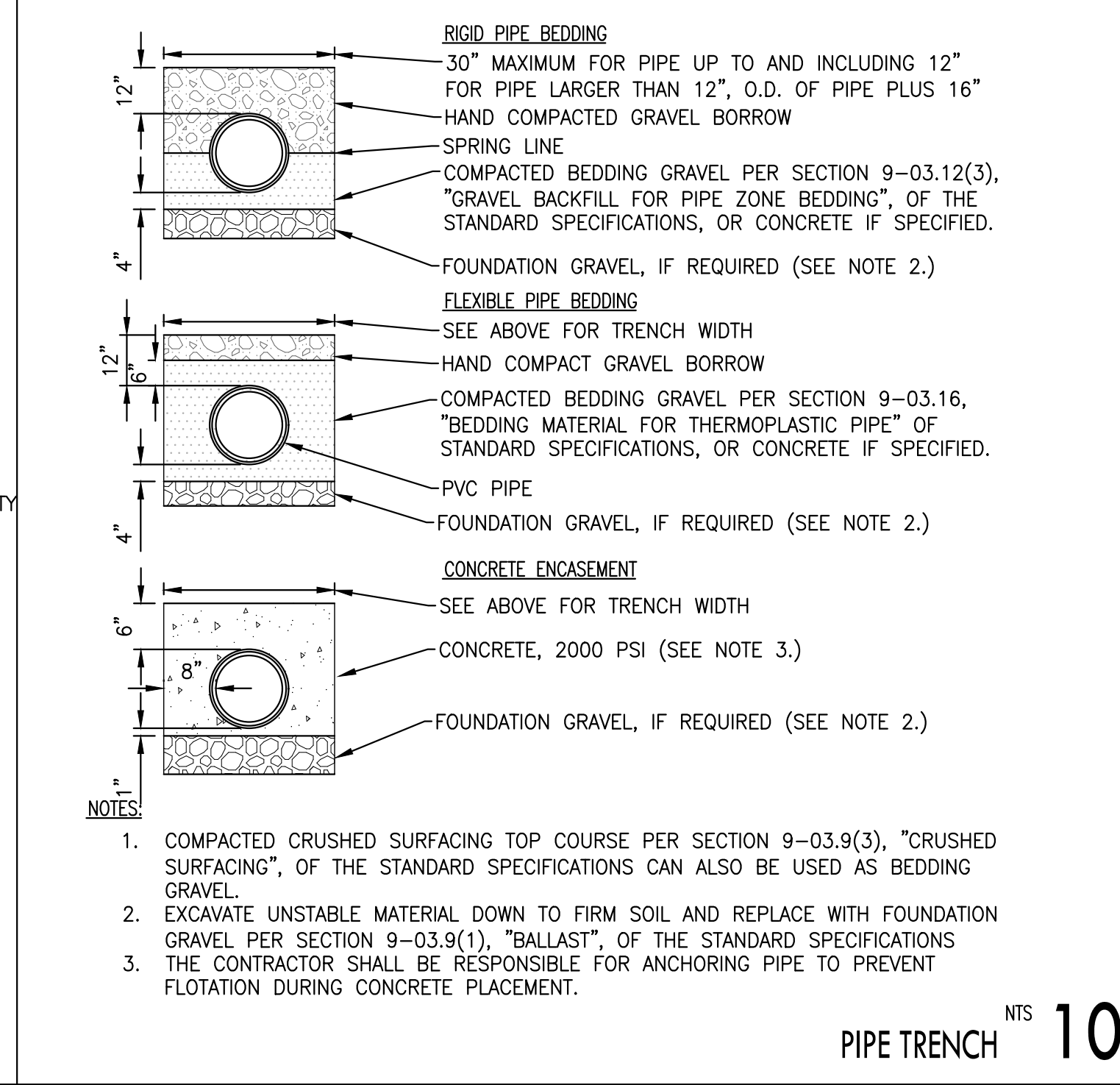
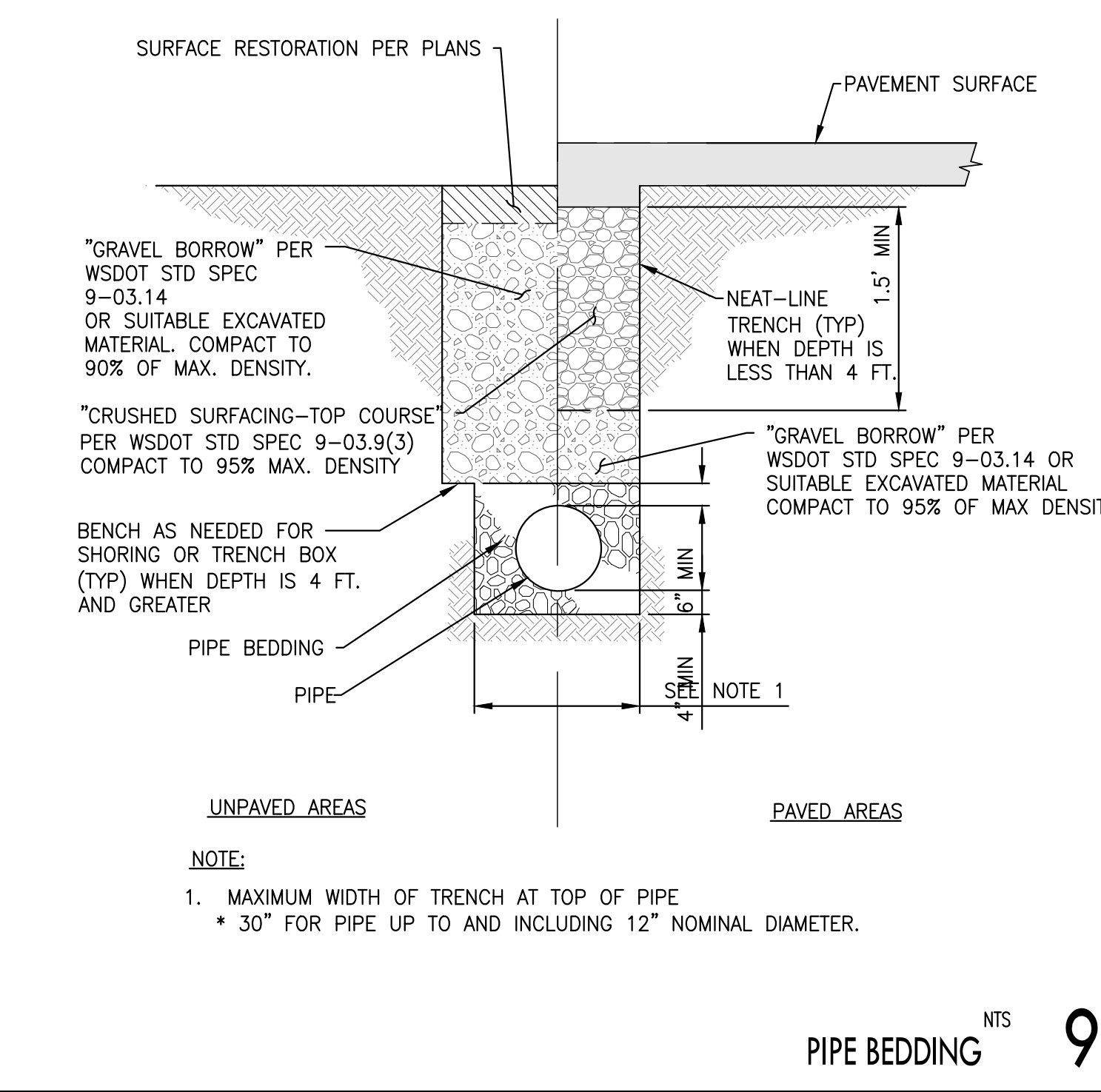
**MILLER HULL**  
 The Miller Hull Partnership, LLP  
 Architecture and Planning  
 71 Columbia, Sixth Floor  
 Seattle, WA 98104  
 Phone: 206.682.6837  
 Contact: Name

**LPD** engineering pllc  
 1932 First Ave  
 Suite 201  
 Seattle, WA 98101  
 p. 206.725.1211  
 f. 206.973.5344  
 www.lpdengineering.com

STAMP



**MERCER ISLAND HOUSE: CASCADE**  
 6838 96TH AVE SE  
 MERCER ISLAND, WA 98040  
 SUBMITTAL



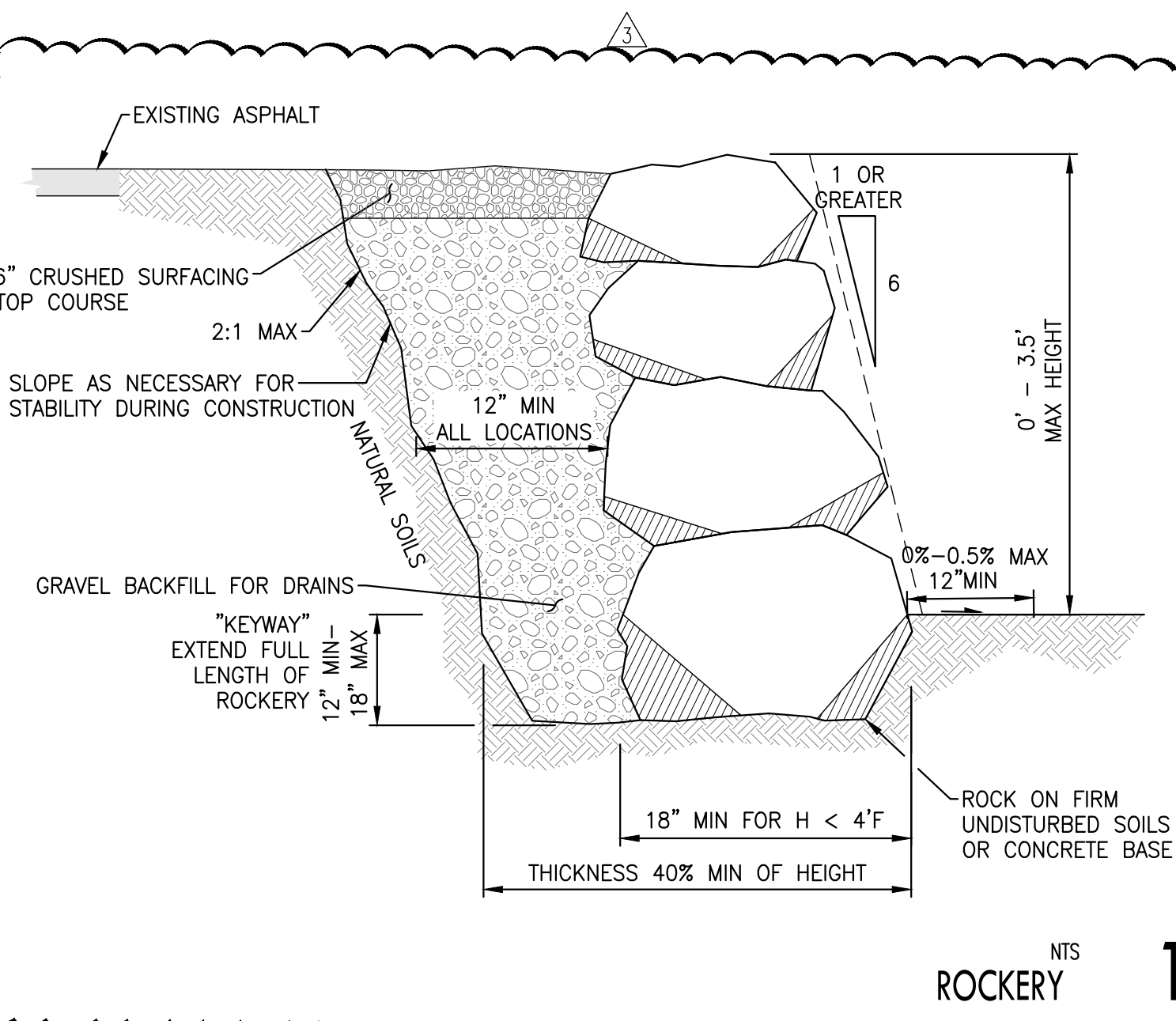
**100% CONSTRUCTION DOCUMENTS**

FEBRUARY 24, 2023

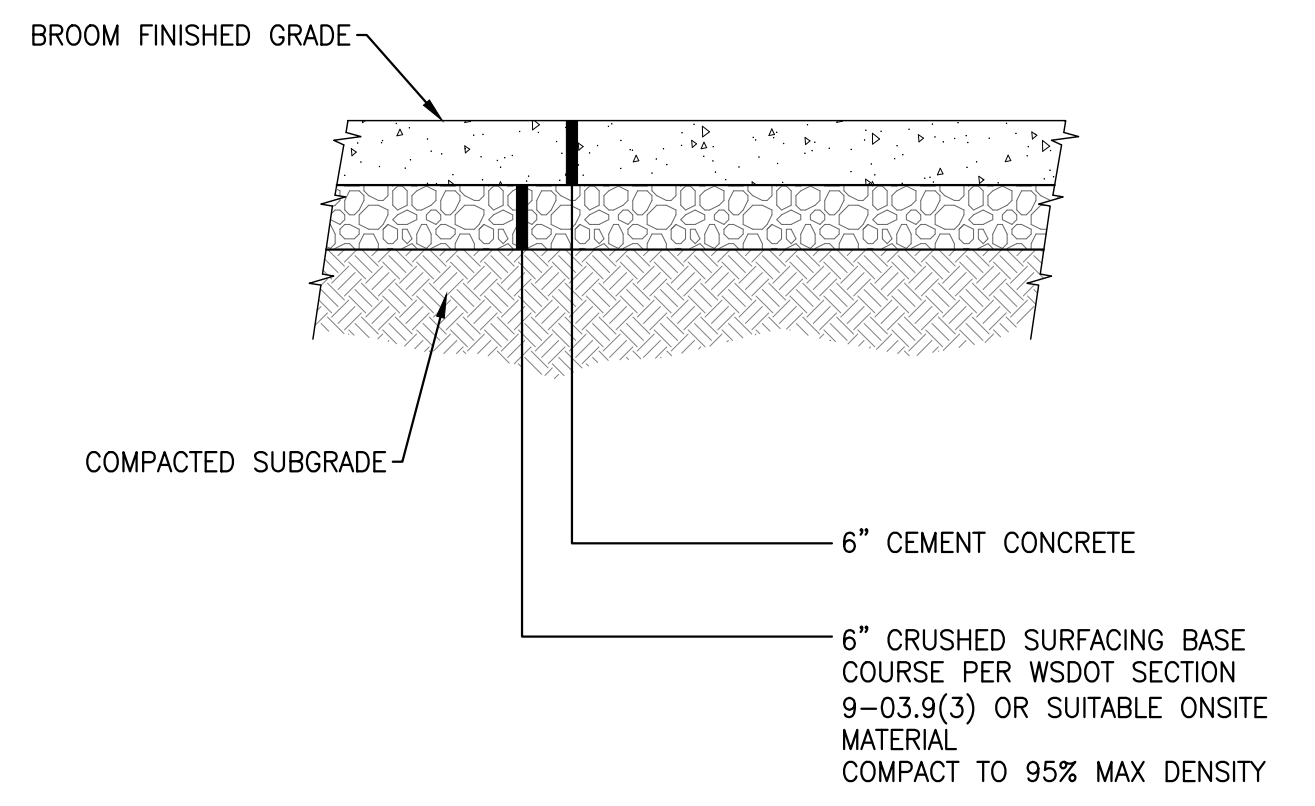
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No.	Description	Date
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2	BUILDING PERMIT RESUBMITTAL	01/06/23
3	BUILDING PERMIT RESUBMITTAL	02/24/23

Drawn: EVW  
 Checked: ACW  
 MJH Proj No.: A20.0085.00  
 Issue Date: FEBRUARY 24, 2023

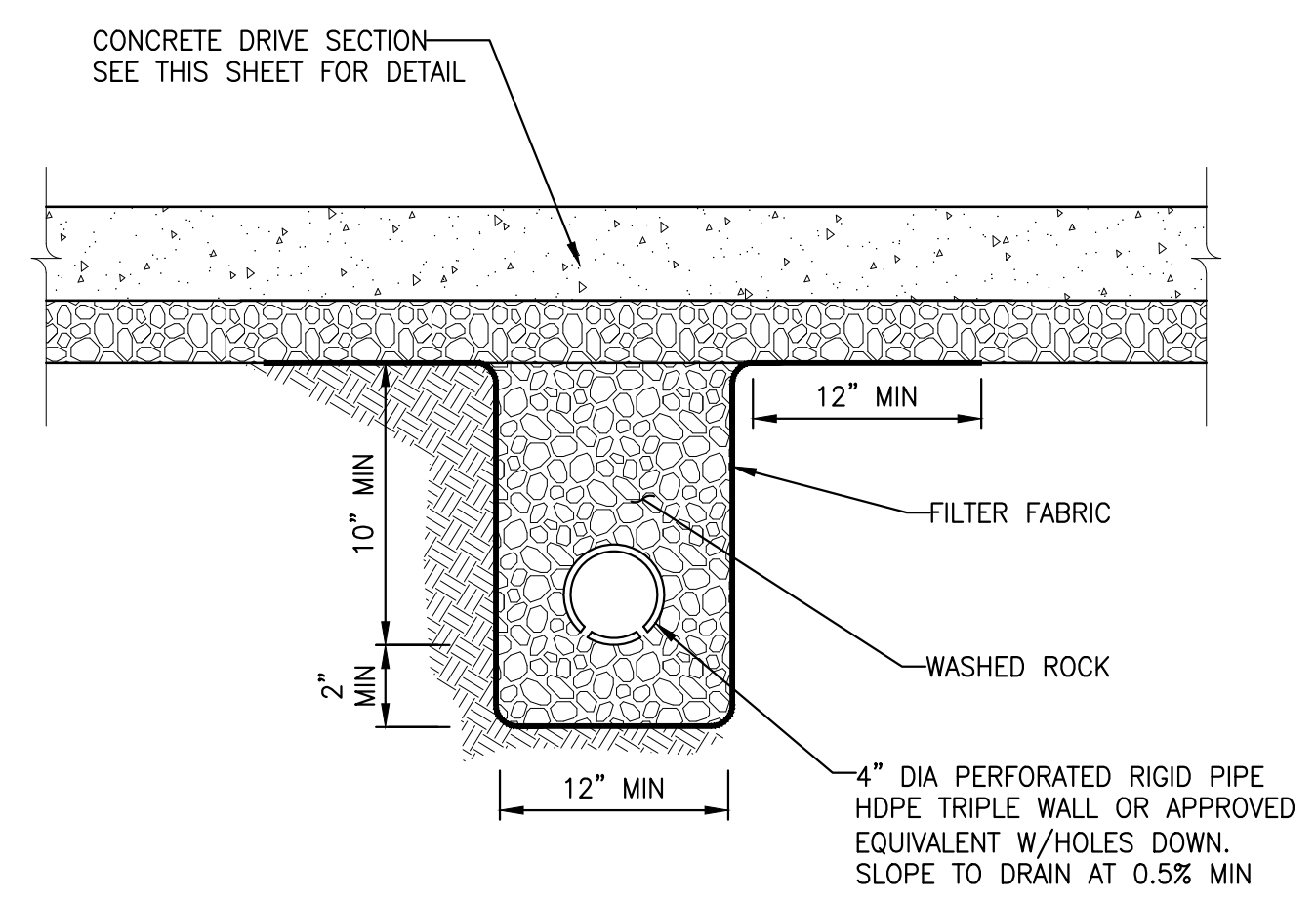
**DETAILS**  
**C401**



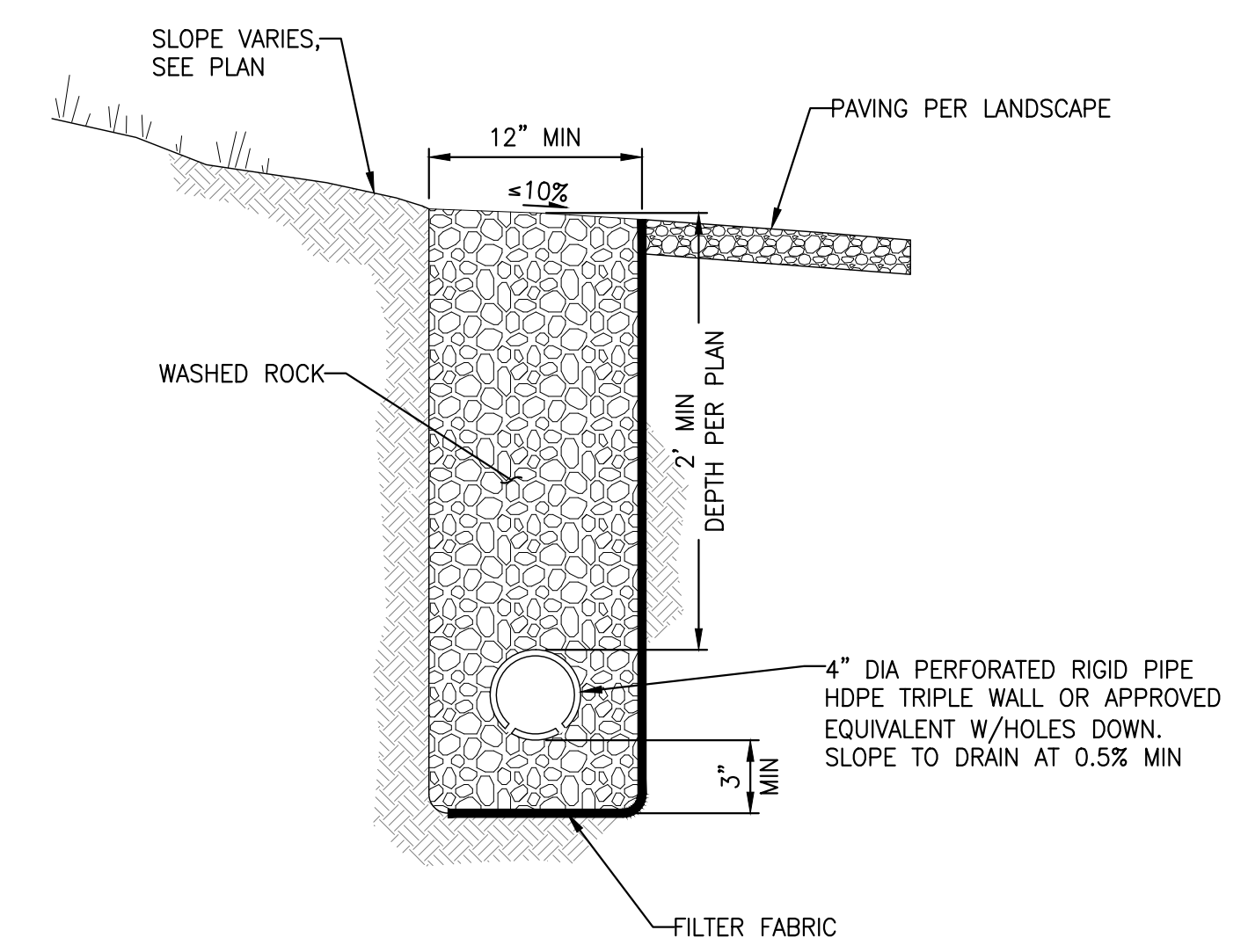
ROCKERY NTS 1



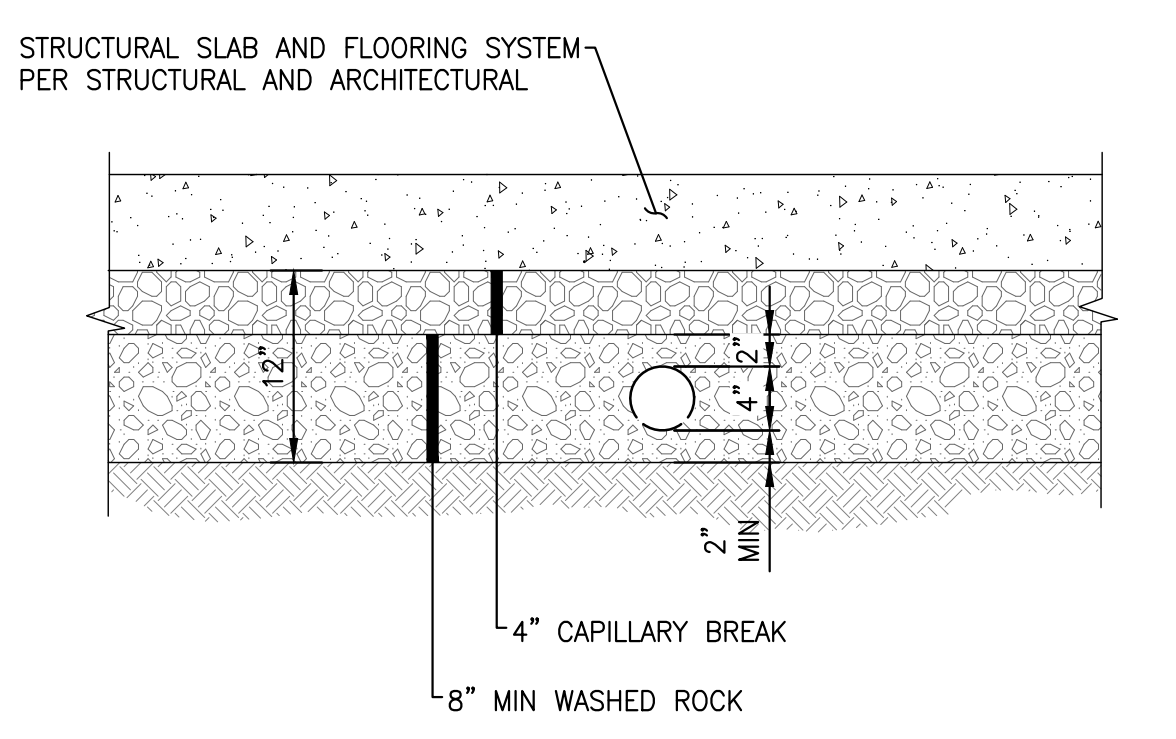
CONCRETE PAVEMENT NTS 2



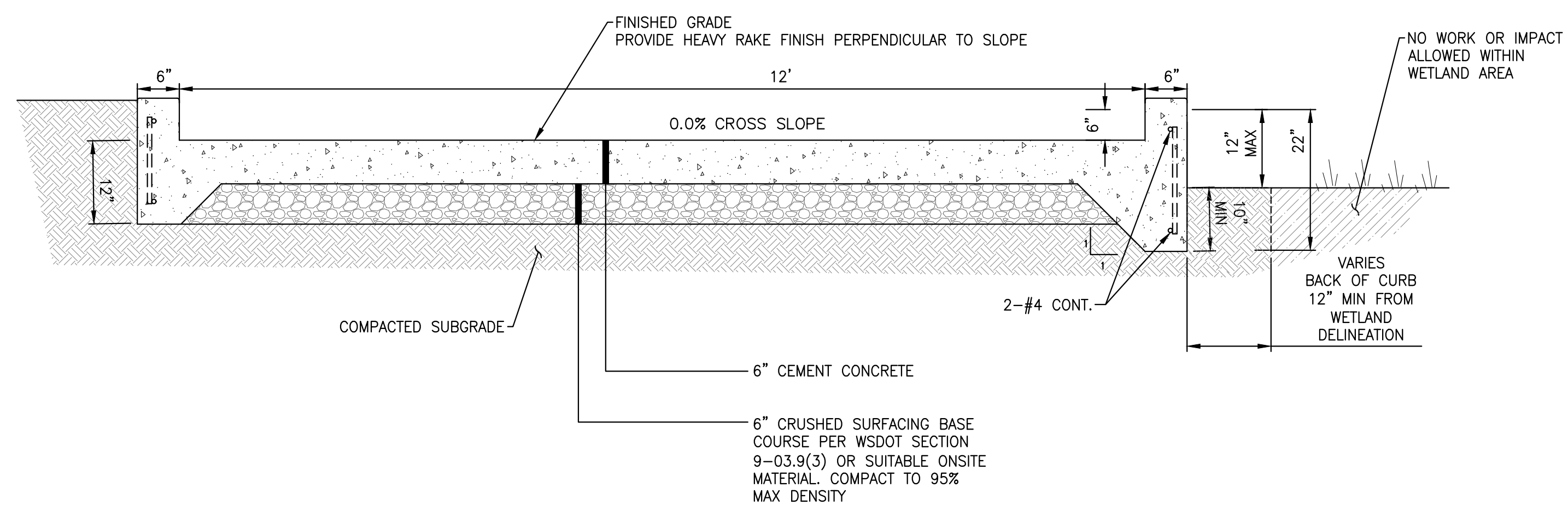
SUBSURFACE DRAIN NTS 3



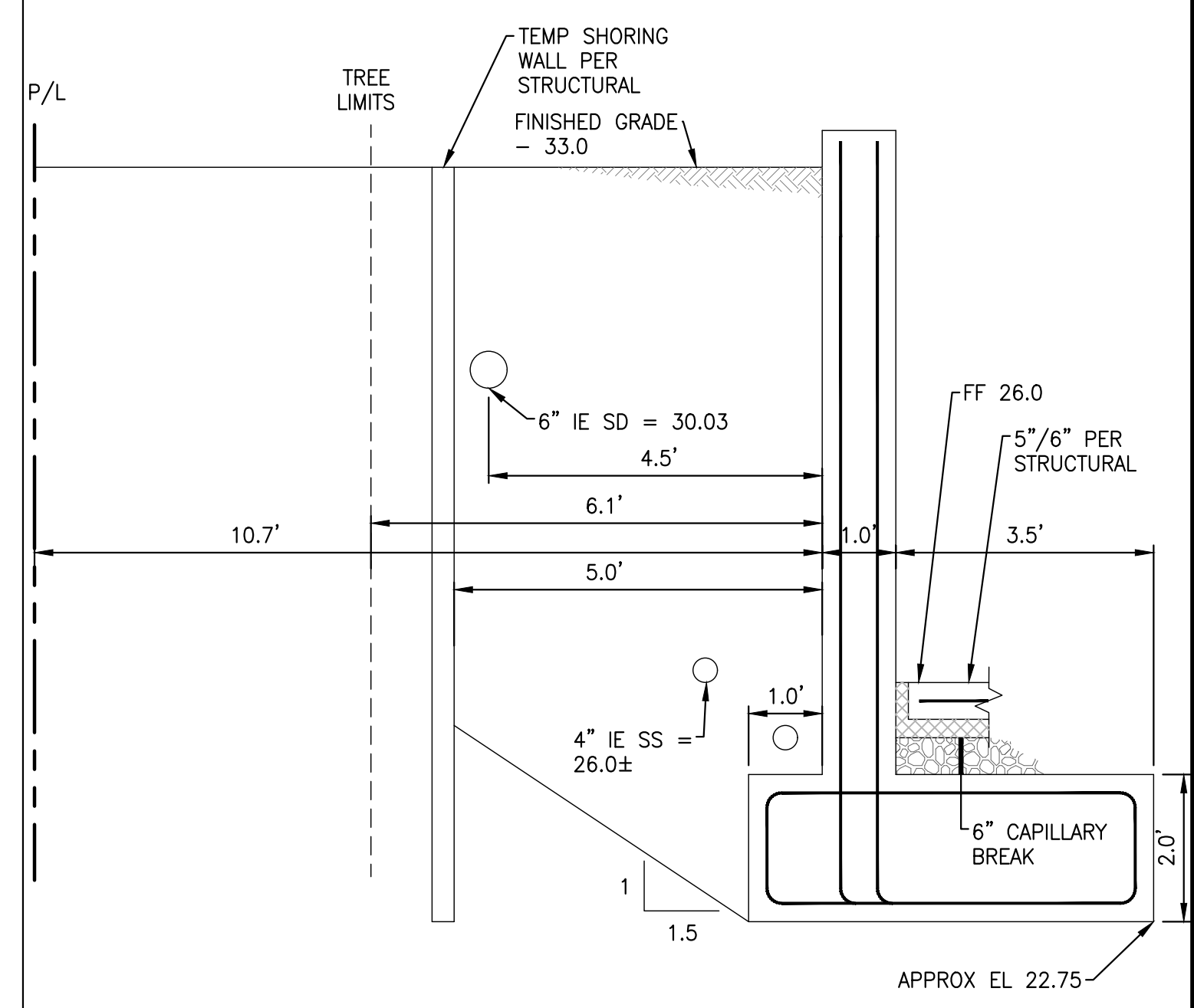
FRENCH DRAIN NTS 4



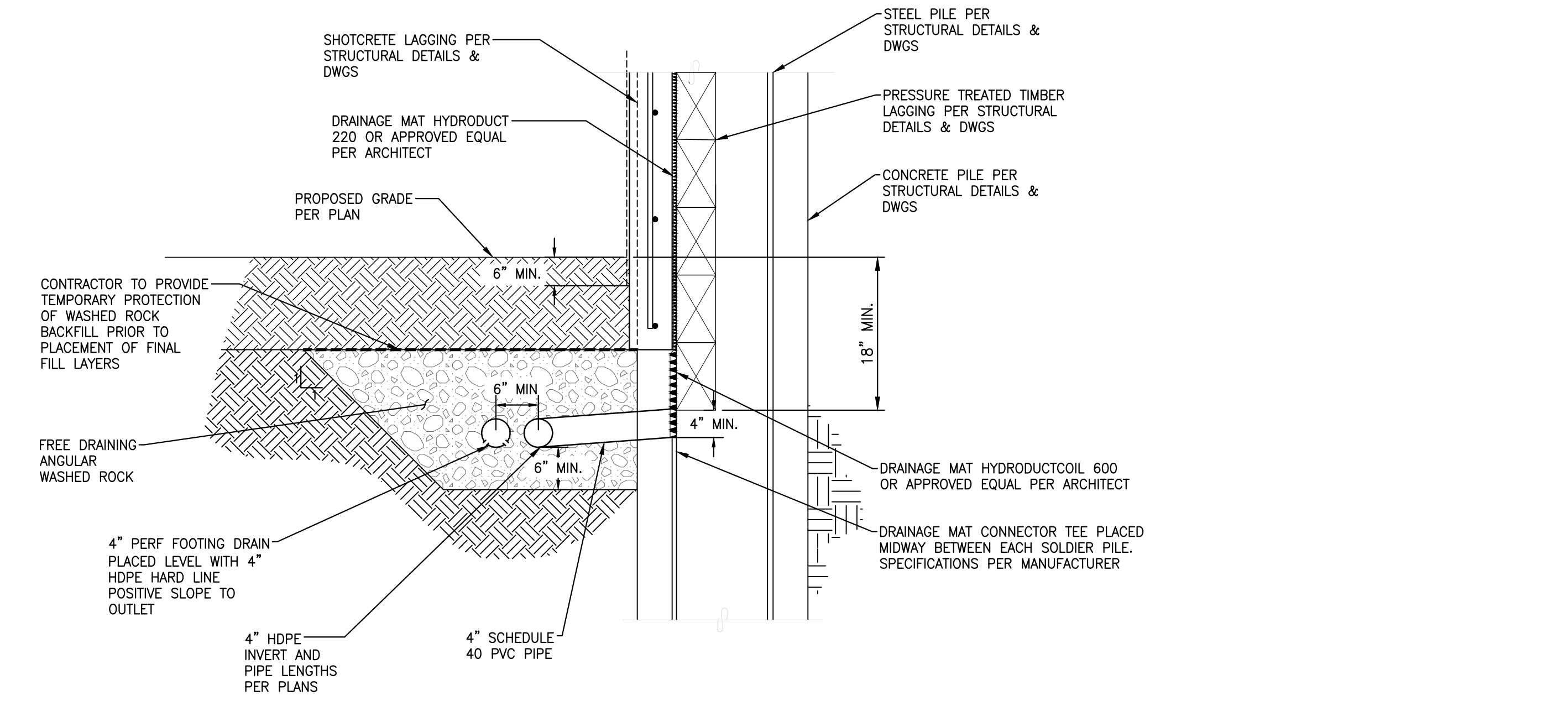
SUB-SLAB DRAINAGE NTS 5



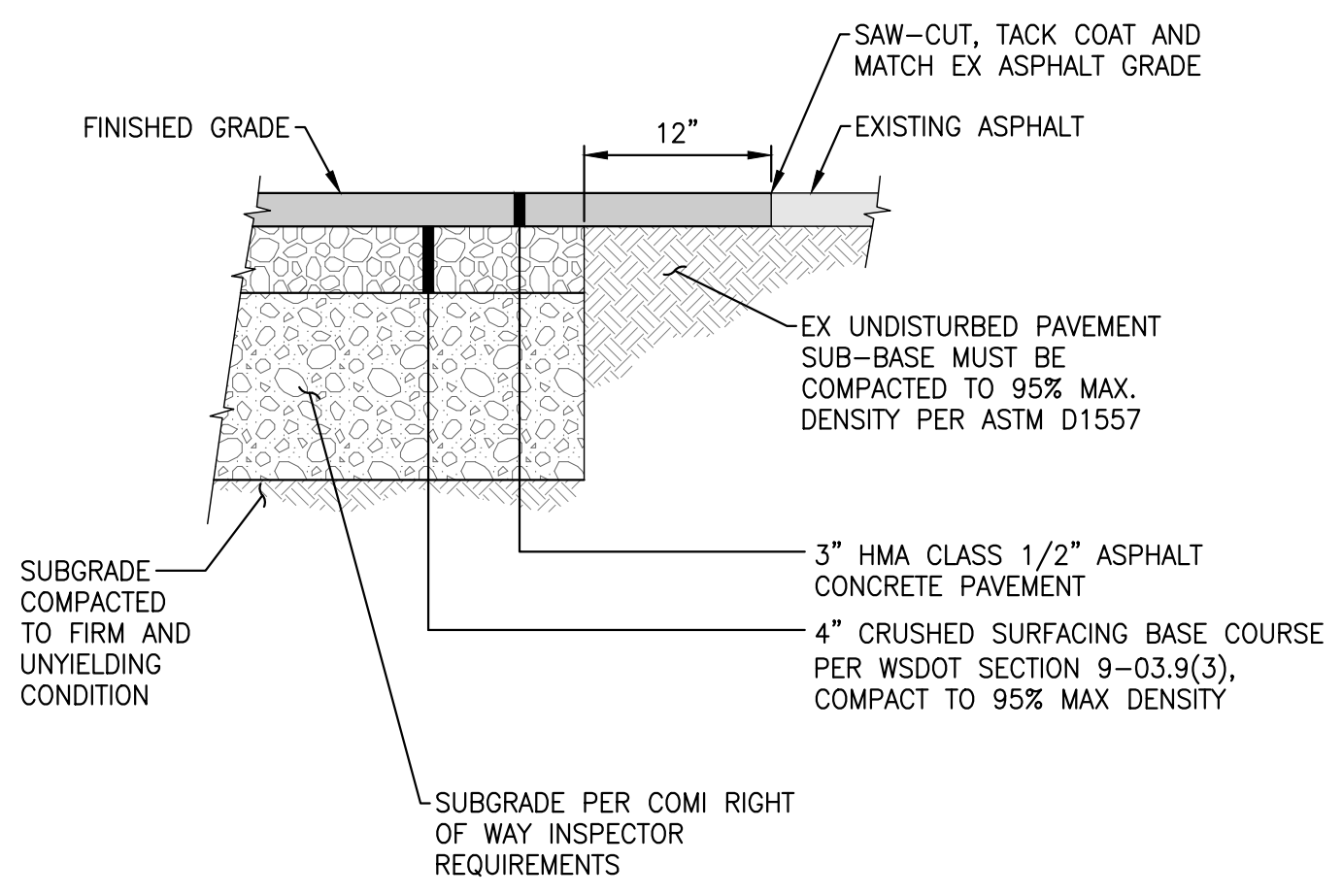
CONCRETE DRIVE NTS 7



SECTION A 1" = 20' 8

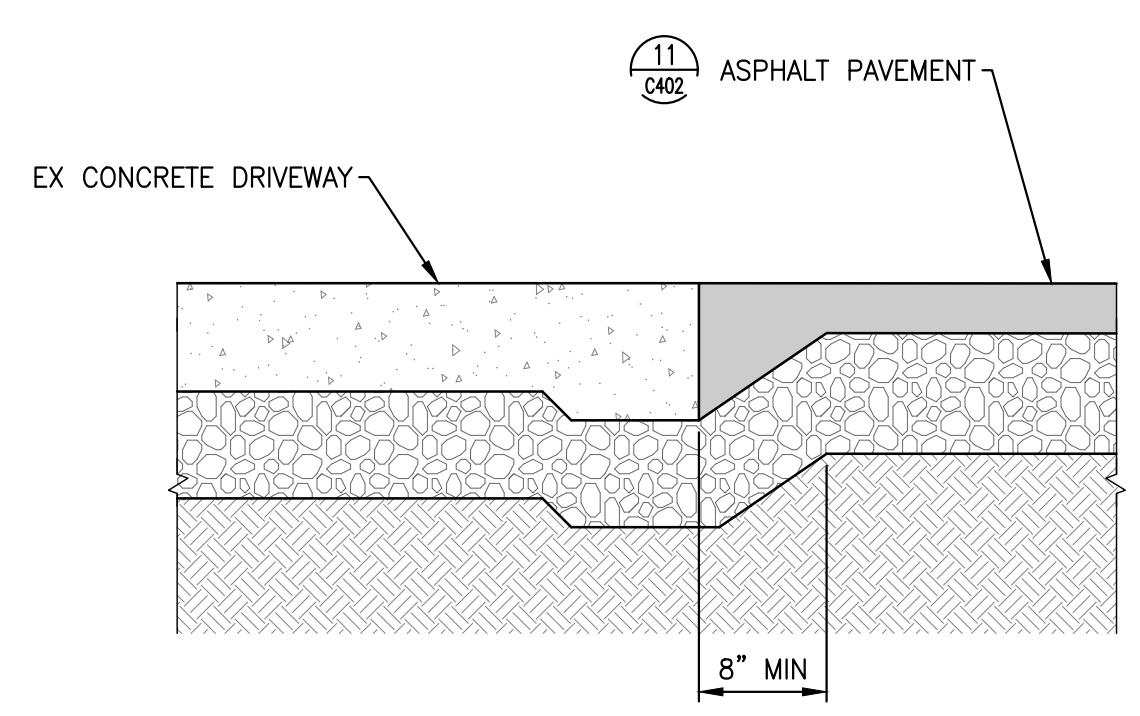


SOLDIER PILE RETAINING WALL FOOTING DRAIN NTS 9



NOTES:  
1. IF EX PAVEMENT SECTION IS THICKER, MATCH EX SECTION. OTHERWISE CONSTRUCT SECTION SHOWN.  
2. SAW-CUT FULL DEPTH WHERE NEW PAVEMENT ABUTS EXISTING AND APPLY TACK COAT.  
3. PLACE ASPHALT IN ACCORDANCE WITH WSDOT APWA SECTION 5-04.  
4. PROOF ROLL AND REMOVE ANY SOFT SPOTS. REPLACE REMOVED MATERIAL WITH GRAVEL BORROW. CONTRACTOR SHALL TEST AND VERIFY SUBGRADE MEETS COMPACTION REQUIREMENTS PRIOR TO PAVING.

ASPHALT PAVEMENT NTS 11



ASPHALT-CONCRETE TRANSITION NTS 12

**MERCER ISLAND HOUSE: CASCADE**

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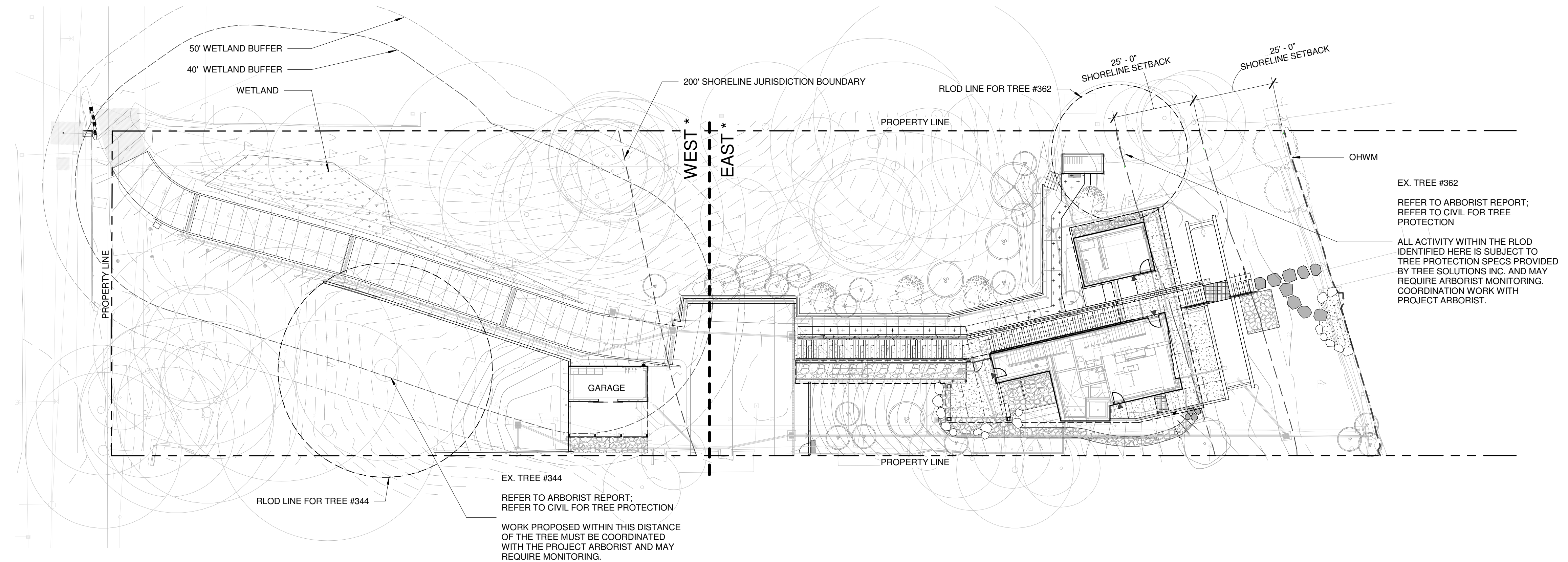
REVISIONS

No.	Description	Date
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△ 2	BUILDING PERMIT RESUBMITTAL 2	01/06/23
△ 3	BUILDING PERMIT RESUBMITTAL 3	02/24/23

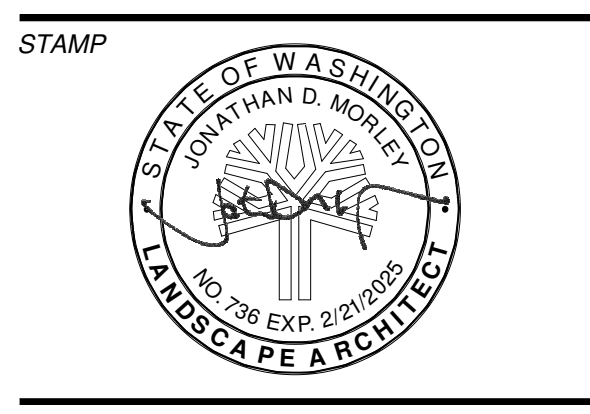
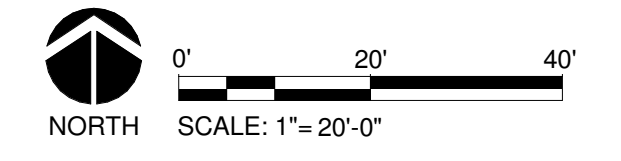
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Checked: ACW  
M/H Proj No.: A20.0085.00  
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SHEET  
**DETAILS**

**C402**



1 COMPOSITE SITE PLAN  
1" = 20'-0"



**MERCER ISLAND HOUSE: CASCADE**

6838 96th Ave SE  
Mercer Island, WA 90840  
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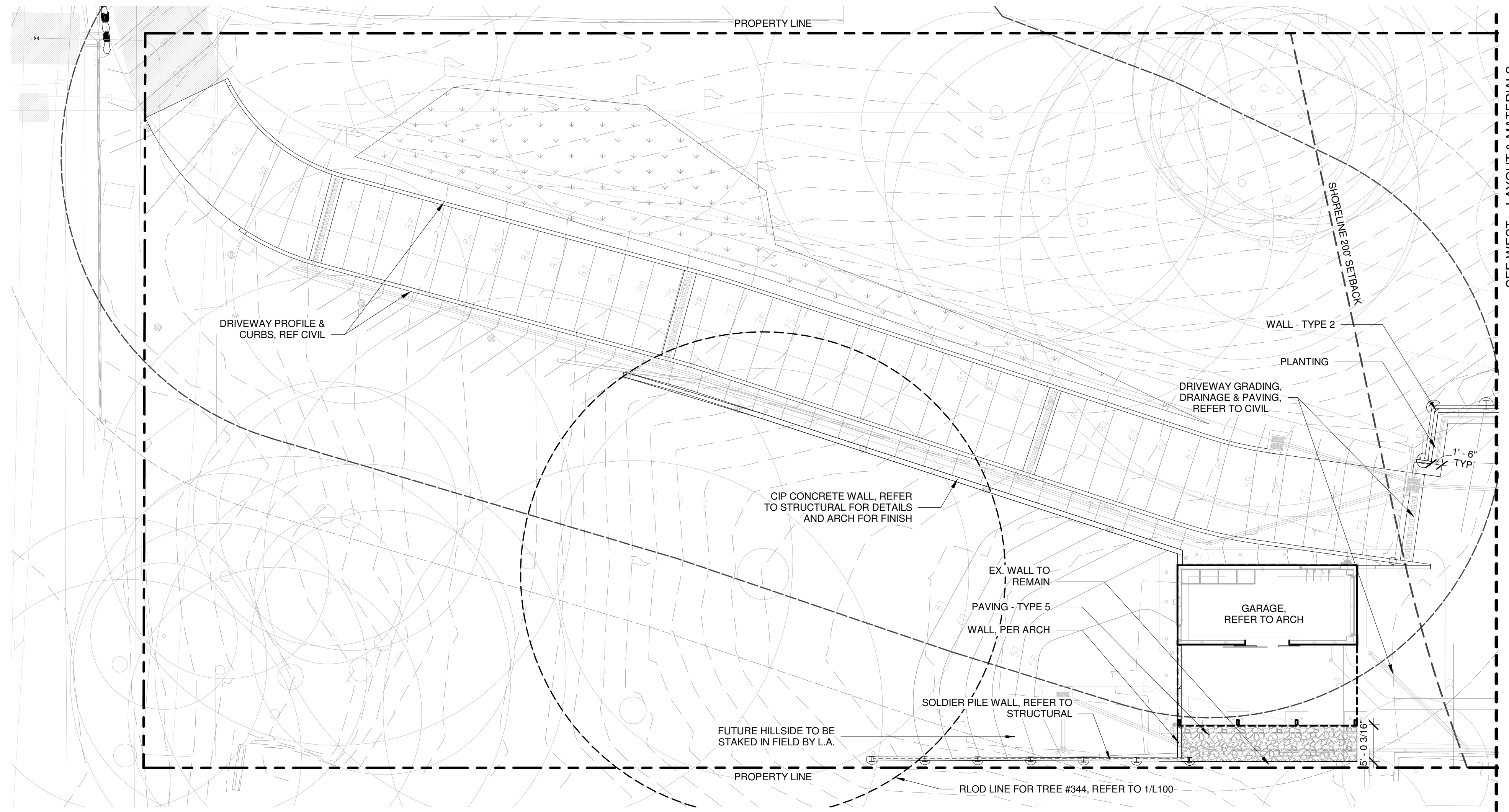
REVISIONS

No.	Description	Date

Drawn: JM / SL / CA / SM  
Checked: JM / SL / CA  
MJH Proj No.: A20.0085.00  
Issue Date: FEBRUARY 24, 2023

SHEET

**COMPOSITE SITE PLAN  
L100**



**MATERIAL LEGEND:**

- PAVING - TYPE 1
- PAVING - TYPE 2
- PAVING - TYPE 3
- PAVING - TYPE 4
- PAVING - TYPE 5
- WALL - TYPE 1
- WALL - TYPE 2
- WALL - TYPE 3
- STEPS - TYPE 1 & 1-B
- STEPS - TYPE 2
- STEPS - TYPE 3
- STEPS - TYPE 4
- METAL EDGING
- TRENCH DRAIN
- ROCK MULCH
- BOULDERS

**GENERAL LAYOUT NOTES:**

1. REFER TO CIVIL GRADING PLANS FOR ALL TOP OF WALL, BOTTOM OF WALL, TOP OF STEP, AND BOTTOM OF STEP ELEVATIONS.

**MATERIAL NOTES:**

**PAVING**  
 TYPE 1 - CIP CONCRETE VEHICULAR PAVING, SEE DETAILS AND REFER TO SPEC SECTION 03 30 00.  
 TYPE 2 - CIP CONCRETE PEDESTRIAN PAVING, SEE DETAILS AND REFER TO SPEC SECTION 03 30 00.  
 TYPE 3 - REINFORCED TURF PAVEMENT SYSTEM, REFER TO SPEC SECTION 32 14 00.  
 TYPE 4 - METAL GRATING, SEE DETAILS & REFER TO SPEC SECTION 32 94 43.  
 TYPE 5 - CRUSHED ROCK, SEE DETAILS & REFER TO SPEC SECTION 32 15 40.

**WALLS**  
 TYPE 1 - CIP CONCRETE WALLS, WITH ARCHITECTURAL CONCRETE, SEE DETAILS & REFER TO SPEC SECTION 03 30 10.  
 TYPE 2 - SOLDIER PILE RETAINING WALL WITH SHOTCRETE FACE, REFER TO STRUCTURAL AND CIVIL FOR SHOTCRETE WALL FINISH, REFER TO SPEC SECTION 03 30 10. FOR VERTICAL SCORING PATTERN, SEE DETAIL 2/L407.  
 TYPE 3 - STEEL PLANTER WALL, PAINTED FINISH, REFER TO SPEC SECTION 05 50 00.

**STEPS**  
 TYPE 1 - CIP CONCRETE SPINE STAIRS, SEE DETAILS & REFER TO SPEC SECTION 03 30 00.  
 TYPE 1-B - CIP CONCRETE SPINE STAIRS, SEE DETAILS & REFER TO SPEC SECTION 03 30 00.  
 TYPE 2 - CIP CONCRETE STAIR WITH ARCHITECTURAL FINISH, SEE DETAILS & REFER TO SPEC SECTION 03 30 00.  
 TYPE 3 - PAINTED STEEL RISER (3/8" THICK) IN CRUSHED ROCK, SEE DETAILS & REFER TO SPEC SECTION 05 50 00.  
 TYPE 4 - STONE SLAB STEPS, REFER TO DETAIL AND SPEC SECTION 04 41 00.

**HANDRAIL**  
 SEE ARCH

**RUNNEL**  
 CIP CONCRETE SIDEWALLS AND BASE WITH PAINTED STEEL V-CHANNEL, REFER TO DETAILS & SPEC SECTION 05 50 00.

**METAL EDGING**  
 BLACK COLMET, POWDER-COATED STEEL EDGING, OR SIMILAR, TO BE APPROVED BY L.A., 1/4" THICKNESS, 4" DEPTH (HOLD FLUSH WITH FIGURE GRADES)

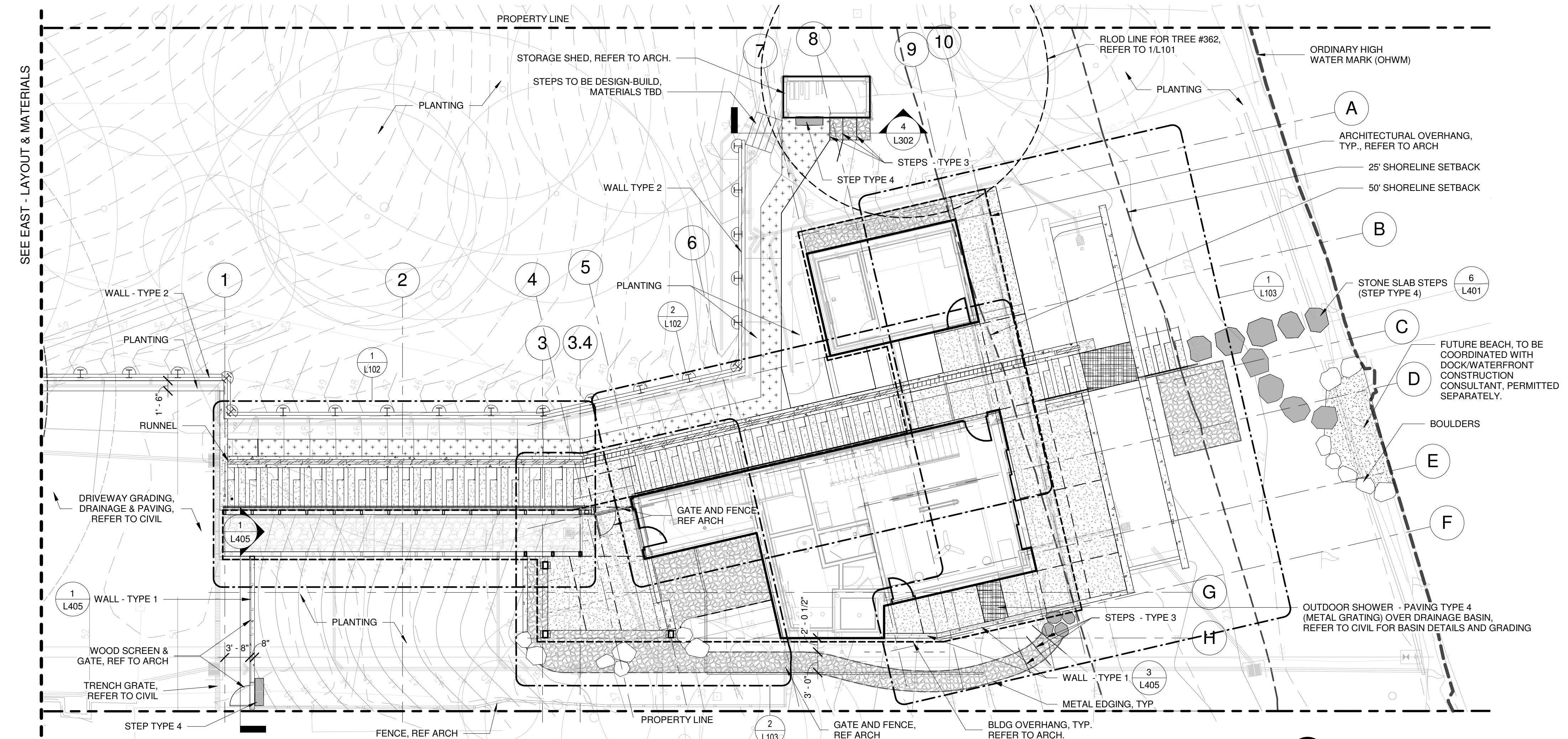
**TRENCH GRATE**  
 DECORATIVE TRENCH GRATE, SEE SPEC SECTION 32 94 43.

**ROCK MULCH**  
 3-5" WASHED, ROUNDED RIVER ROCK, SEE SPEC SECTION 07 55 63.

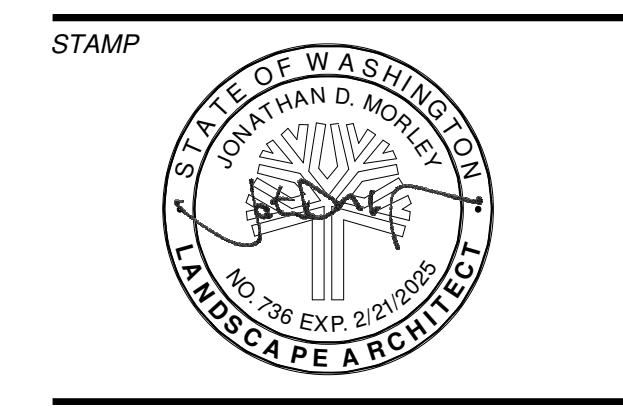
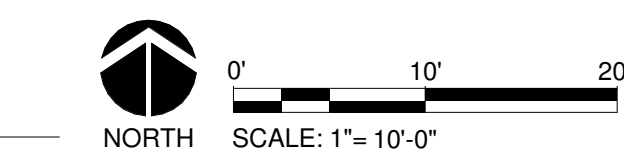
**BOULDERS**  
 2-4 MAN, SALVAGED ON-SITE, REF TO SPEC SECTION 04 41 00.

**PLANTING**  
 SEE SHEET L601; SEE SPEC SECTION 32 90 00.

1 WEST - LAYOUT & MATERIALS  
 1" = 10'-0"



2 EAST - LAYOUT & MATERIALS  
 1" = 10'-0"



**MERCER ISLAND HOUSE: CASCADE**

6838 96th Ave SE  
 Mercer Island, WA 98040  
 SUBMITTAL

**100% CONSTRUCTION DOCUMENTS**

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SHEET

**LAYOUT & MATERIAL PLAN L101**

**MERCER ISLAND HOUSE: CASCADE**

6838 96th Ave SE  
 Mercer Island, WA 90840

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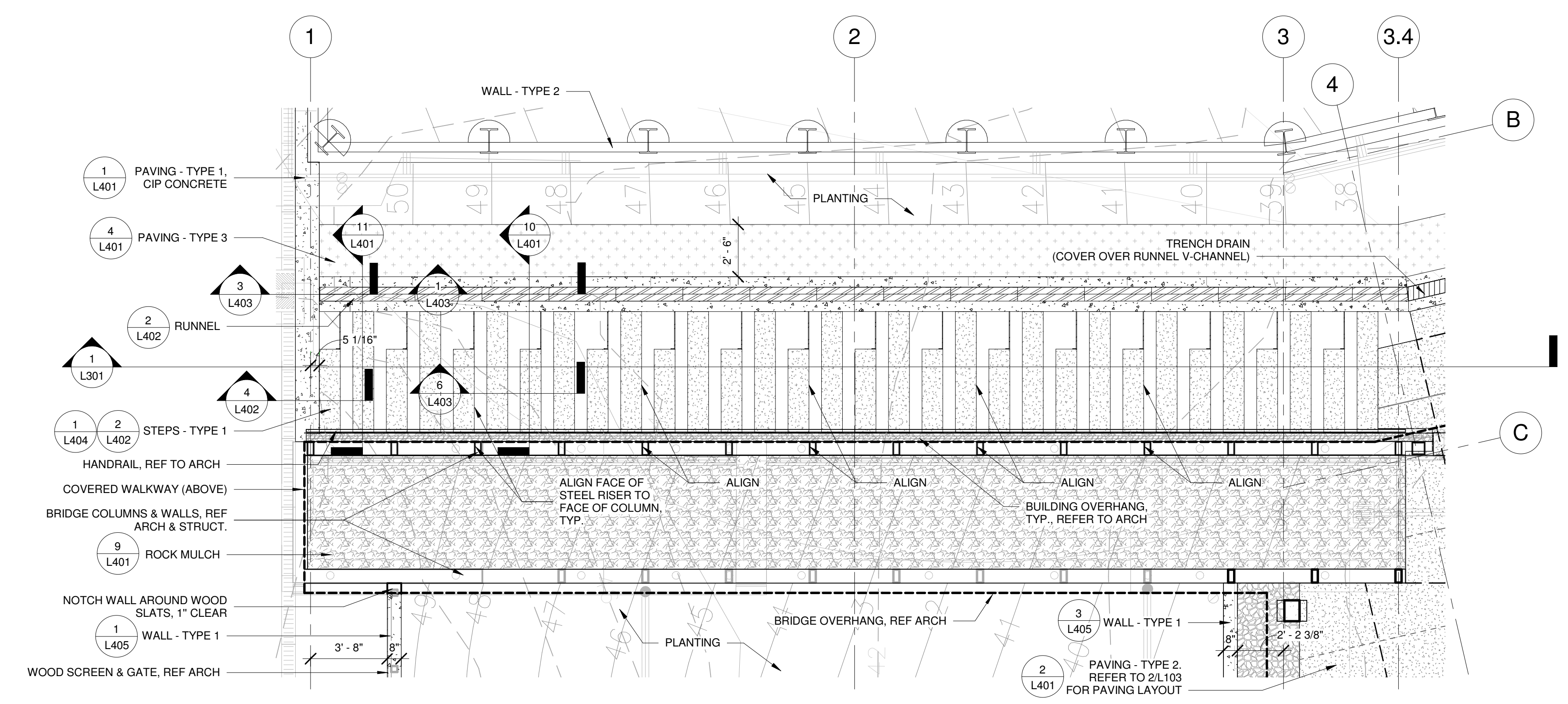
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**LANDSCAPE ENLARGEMENTS L102**



**MATERIAL LEGEND:**

- PAVING - TYPE 1
- PAVING - TYPE 2
- PAVING - TYPE 3
- PAVING - TYPE 4
- PAVING - TYPE 5
- WALL - TYPE 1
- WALL - TYPE 2
- WALL - TYPE 3
- STEPS - TYPE 1 & 1-B
- STEPS - TYPE 2
- STEPS - TYPE 3
- METAL EDGING
- TRENCH DRAIN
- ROCK MULCH
- BOULDERS

**JOINING LEGEND**

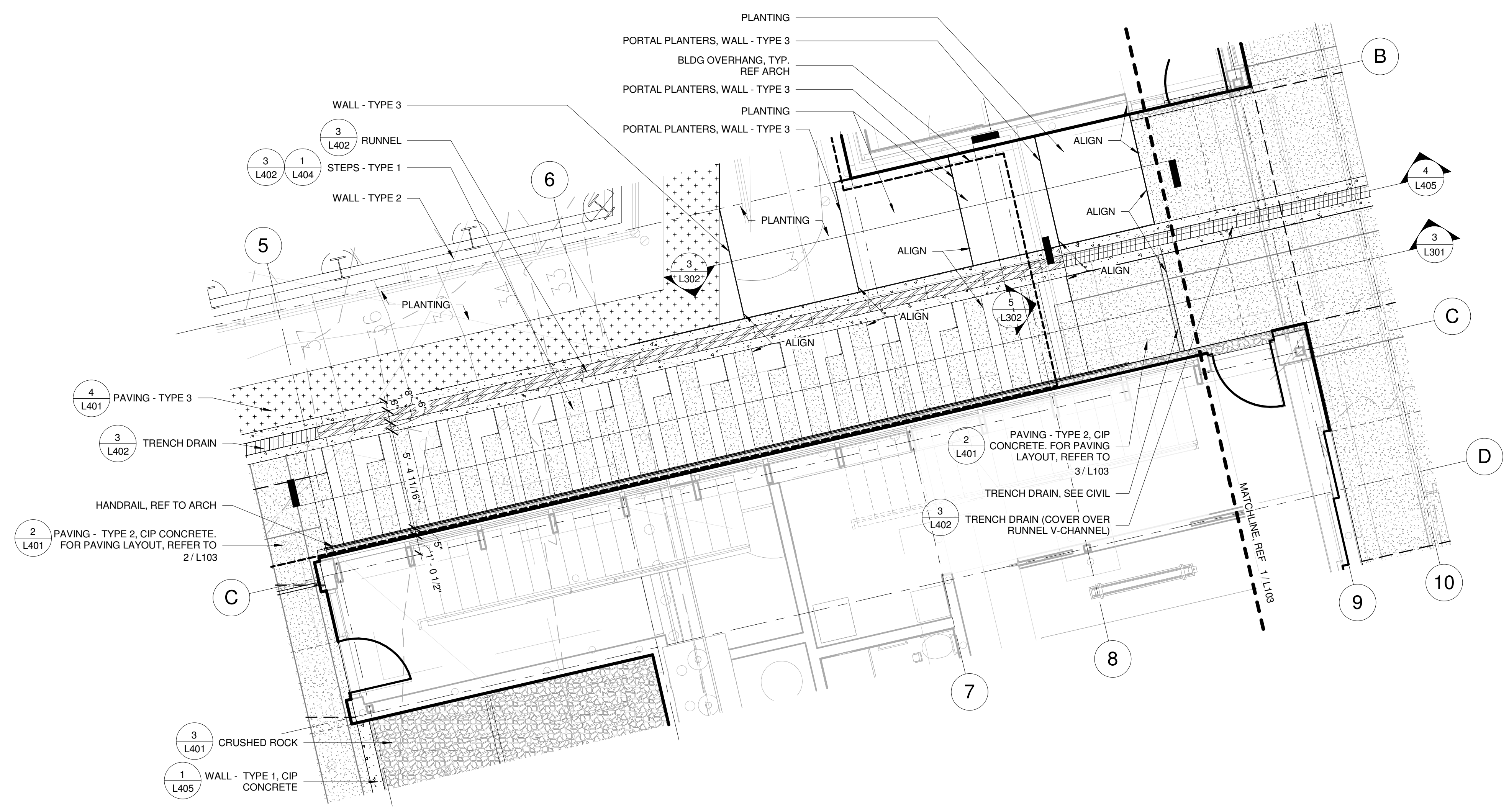
- CONTROL JOINT
- EXPANSION JOINT
- SCORE JOINT

FOR JOINING DETAILS, REF 8 / L401

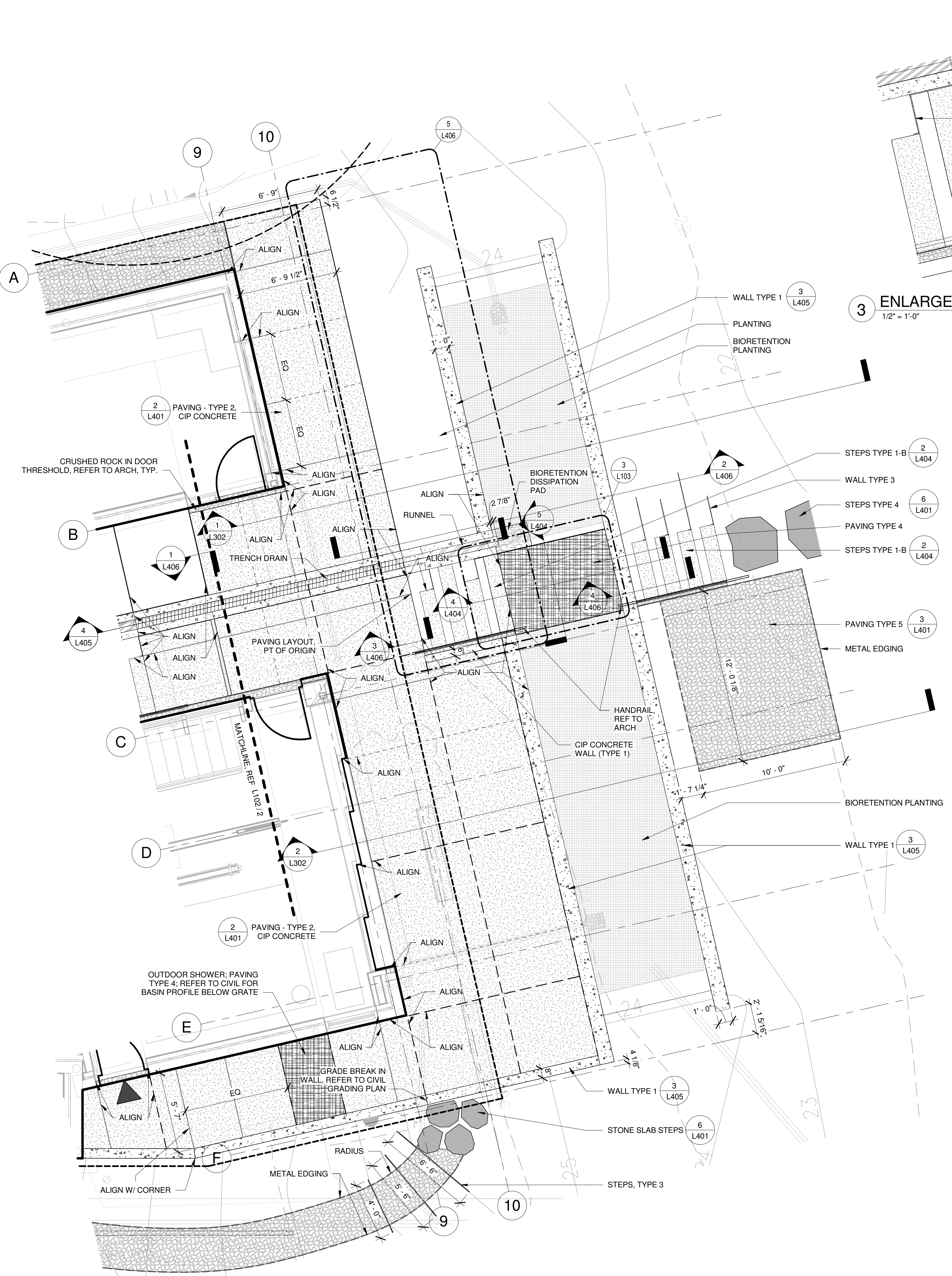
**MATERIAL NOTES:**

- PAVING**  
 TYPE 1 - CIP CONCRETE VEHICULAR PAVING, SEE DETAILS AND REFER TO SPEC SECTION 03 30 00.  
 TYPE 2 - CIP CONCRETE PEDESTRIAN PAVING, SEE DETAILS AND REFER TO SPEC SECTION 03 30 00.  
 TYPE 3 - REINFORCED TURF PAVEMENT SYSTEM, REFER TO SPEC SECTION 32 14 00.  
 TYPE 4 - METAL GRATING, SEE DETAILS & REFER TO SPEC SECTION 32 94 43.  
 TYPE 5 - CRUSHED ROCK, SEE DETAILS & REFER TO SPEC SECTION 32 15 40.
- WALLS**  
 TYPE 1 - CIP CONCRETE WALLS, WITH ARCHITECTURAL CONCRETE, SEE DETAILS & REFER TO SPEC SECTION 03 30 10.  
 TYPE 2 - SOLDIER PILE RETAINING WALL WITH SHOTCRETE FACE, REFER TO STRUCTURAL AND CIVIL. FOR SHOTCRETE WALL FINISH, REFER TO SPEC SECTION 03 30 10. FOR VERTICAL SCORING PATTERN, SEE DETAIL 2/L407.  
 TYPE 3 - STEEL PLANTER WALL, PAINTED FINISH, REFER TO SPEC SECTION 05 50 00.
- STEPS**  
 TYPE 1 - CIP CONCRETE SPINE STAIRS, SEE DETAILS & REFER TO SPEC SECTION 03 30 00.  
 TYPE 1-B - CIP CONCRETE SPINE STAIRS, SEE DETAILS & REFER TO SPEC SECTION 03 30 00.  
 TYPE 2 - CIP CONCRETE STAIR WITH ARCHITECTURAL FINISH, SEE DETAILS & REFER TO SPEC SECTION 03 30 00.  
 TYPE 3 - PAINTED STEEL RISER (3/8" THICK) IN CRUSHED ROCK, SEE DETAILS & REFER TO SPEC SECTION 05 50 00.  
 TYPE 4 - STONE SLAB STEPS, REFER TO DETAIL AND SPEC SECTION 04 41 00.
- HANDRAIL**  
 SEE ARCH
- RUNNEL**  
 CIP CONCRETE SIDEWALLS AND BASE WITH PAINTED STEEL V-CHANNEL, REFER TO DETAILS & SPEC SECTION 05 50 00.
- METAL EDGING**  
 BLACK COLMET, POWDER-COATED STEEL EDGING, OR SIMILAR, TO BE APPROVED BY L.A., 1/4" THICKNESS, 4" DEPTH (HOLD FLUSH WITH FIGURE GRADES)
- TRENCH GRATE**  
 DECORATIVE TRENCH GRATE, SEE SPEC SECTION 32 94 43.
- ROCK MULCH**  
 3-5" WASHED, ROUNDED RIVER ROCK, SEE SPEC SECTION 07 55 63.
- BOULDERS**  
 2-4 MAN, SALVAGED ON-SITE, REFER TO SPEC SECTION 04 41 00.
- PLANTING**  
 SEE SHEET L601; SEE SPEC SECTION 32 90 00.

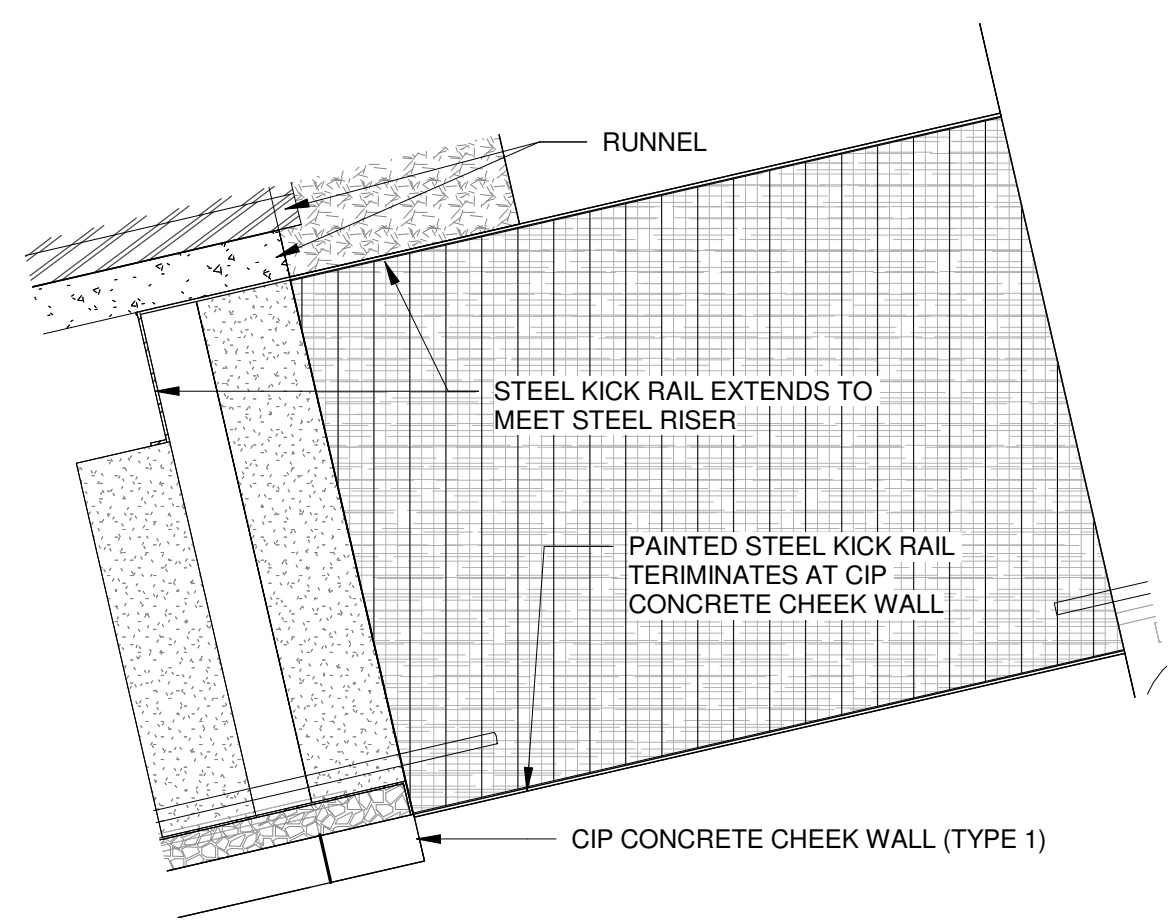
**1 ENLARGEMENT - WEST SPINE**  
 1/4" = 1'-0"



**2 ENLARGEMENT - EAST SPINE**  
 1/4" = 1'-0"


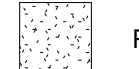






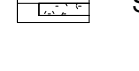
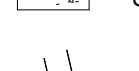


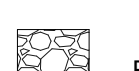

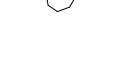


**1 ENLARGEMENT - LAKESIDE**  
 1/4" = 1'-0"






**3 ENLARGEMENT - LAKESIDE BRIDGE**  
 1/2" = 1'-0"

**MATERIAL LEGEND:**

-  PAVING - TYPE 1
-  PAVING - TYPE 2
-  PAVING - TYPE 3
-  PAVING - TYPE 4
-  PAVING - TYPE 5
-  WALL - TYPE 1
-  WALL - TYPE 2
-  WALL - TYPE 3
-  STEPS - TYPE 1 & 1-B
-  STEPS - TYPE 2
-  STEPS - TYPE 3
-  METAL EDGING
-  TRENCH DRAIN
-  ROCK MULCH
-  BOULDERS

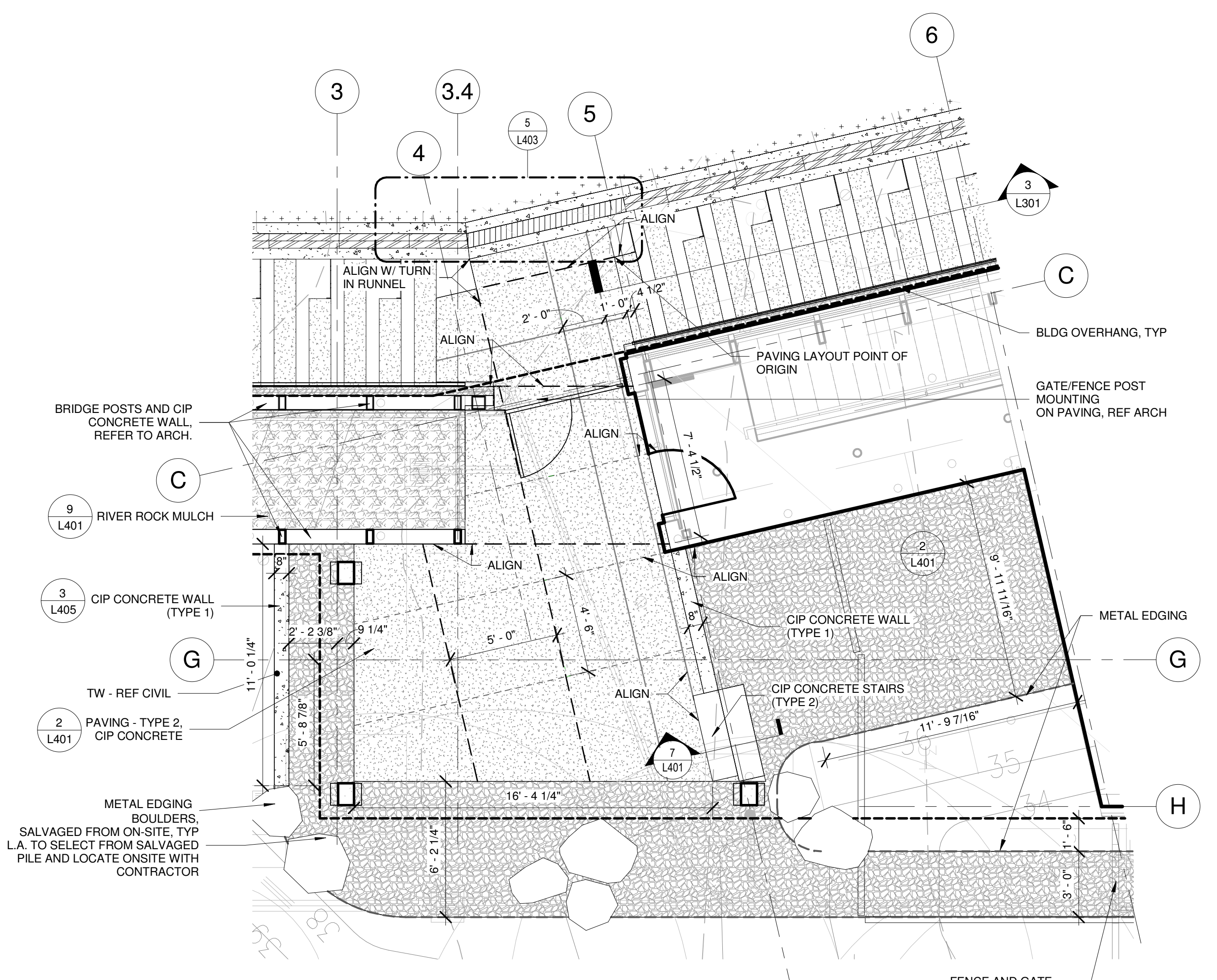
**JOINING LEGEND**

-  CONTROL JOINT
-  EXPANSION JOINT
-  SCORE JOINT

FOR JOINING DETAILS, REF 8 / L401

**MATERIAL NOTES:**

- PAVING**  
 TYPE 1 - CIP CONCRETE VEHICULAR PAVING, SEE DETAILS AND REFER TO SPEC SECTION 03 30 00.  
 TYPE 2 - CIP CONCRETE PEDESTRIAN PAVING, SEE DETAILS AND REFER TO SPEC SECTION 03 30 00.  
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 TYPE 4 - METAL GRATING, SEE DETAILS & REFER TO SPEC SECTION 32 94 43.  
 TYPE 5 - CRUSHED ROCK, SEE DETAILS & REFER TO SPEC SECTION 32 15 40.
- WALLS**  
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 TYPE 2 - SOLDIER PILE RETAINING WALL WITH SHOTCRETE FACE, REFER TO STRUCTURAL AND CIVIL. FOR SHOTCRETE WALL FINISH, REFER TO SPEC SECTION 03 30 10. FOR VERTICAL SCORING PATTERN, SEE DETAIL 2/L407.  
 TYPE 3 - STEEL PLANTER WALL, PAINTED FINISH, REFER TO SPEC SECTION 05 50 00.
- STEPS**  
 TYPE 1 - CIP CONCRETE SPINE STAIRS, SEE DETAILS & REFER TO SPEC SECTION 03 30 00.  
 TYPE 1-B - CIP CONCRETE SPINE STAIRS, SEE DETAILS & REFER TO SPEC SECTION 03 30 00.  
 TYPE 2 - CIP CONCRETE STAIR WITH ARCHITECTURAL FINISH, SEE DETAILS & REFER TO SPEC SECTION 03 30 00.  
 TYPE 3 - PAINTED STEEL RISER (3/8" THICK) IN CRUSHED ROCK, SEE DETAILS & REFER TO SPEC SECTION 05 50 00.  
 TYPE 4 - STONE SLAB STEPS, REFER TO DETAIL AND SPEC SECTION 04 41 00.
- HANDRAIL**  
 SEE ARCH
- RUNNEL**  
 CIP CONCRETE SIDEWALLS AND BASE WITH PAINTED STEEL V-CHANNEL, REFER TO DETAILS & SPEC SECTION 05 50 00.
- METAL EDGING**  
 BLACK COLMET, POWDER-COATED STEEL EDGING, OR SIMILAR, TO BE APPROVED BY L.A., 1/4" THICKNESS, 4" DEPTH (HOLD FLUSH WITH FIGURE GRADES)
- TRENCH GRATE**  
 DECORATIVE TRENCH GRATE, SEE SPEC SECTION 32 94 43.
- ROCK MULCH**  
 3-5" WASHED, ROUNDED RIVER ROCK, SEE SPEC SECTION 07 55 63.
- BOULDERS**  
 2-4 MAN, SALVAGED ON-SITE, REF TO SPEC SECTION 04 41 00.
- PLANTING**  
 SEE SHEET L601; SEE SPEC SECTION 32 90 00.



**2 ENLARGEMENT - MID-SPINE LANDING**  
 1/4" = 1'-0"

**MERCER ISLAND HOUSE: CASCADE**

6838 96th Ave SE  
 Mercer Island, WA 98040

**100% CONSTRUCTION DOCUMENTS**

FEBRUARY 24, 2023

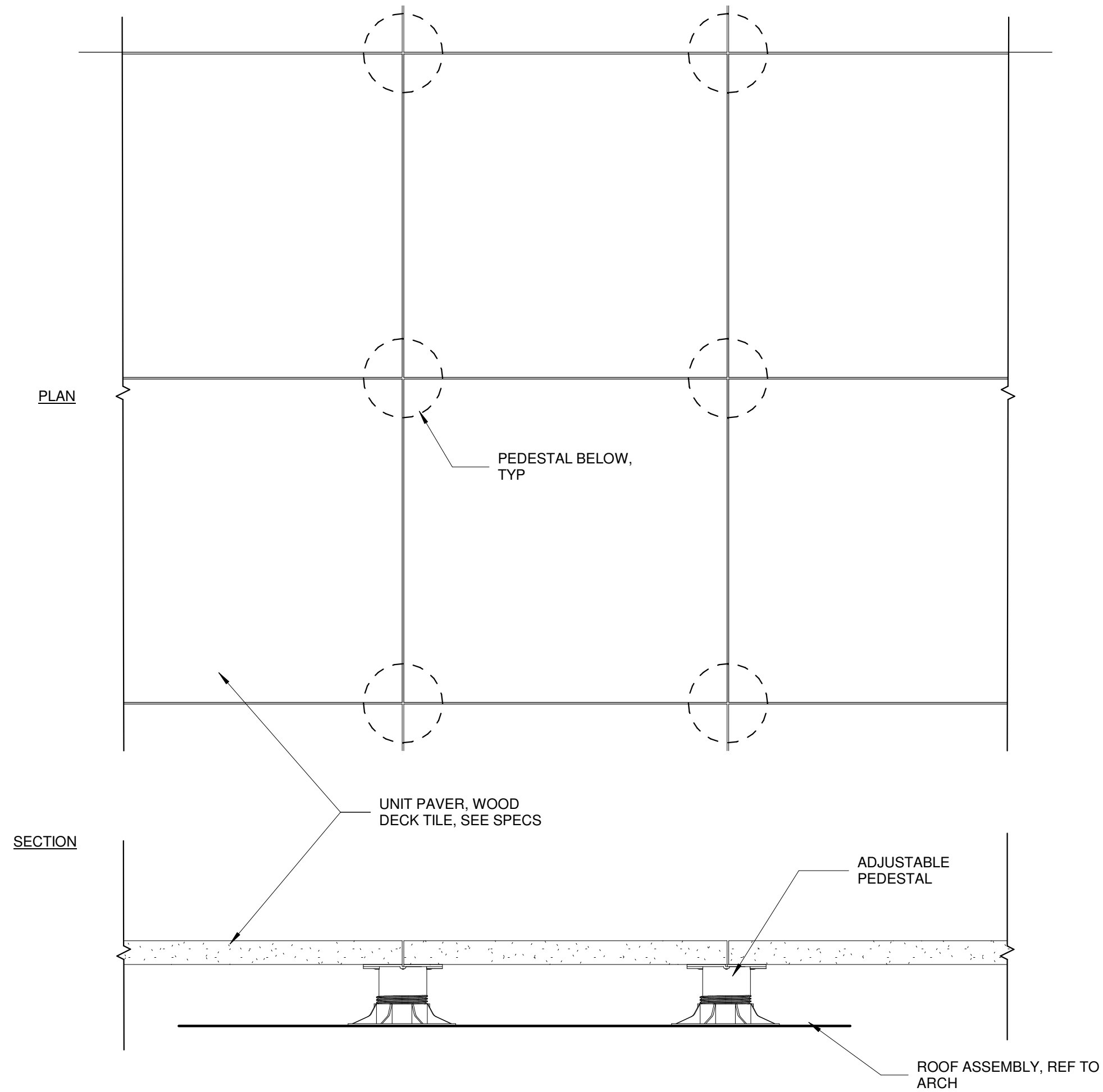
REVISIONS

No.	Description	Date

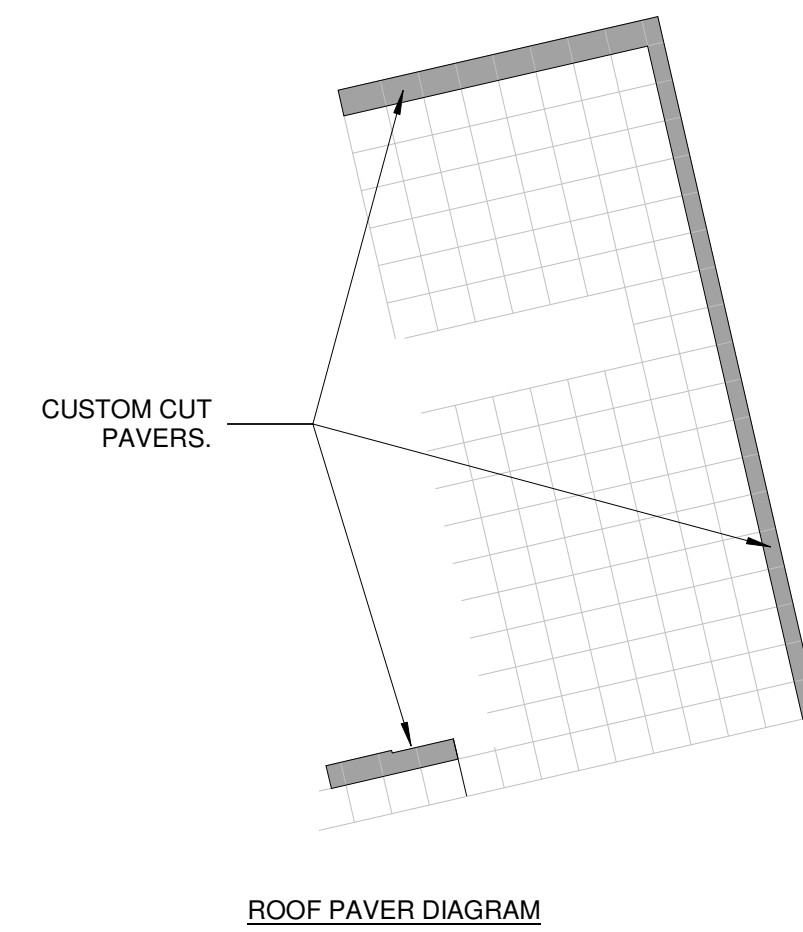
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 MJH Proj No.: A20.0085.00  
 Issue Date: FEBRUARY 24, 2023

SHEET

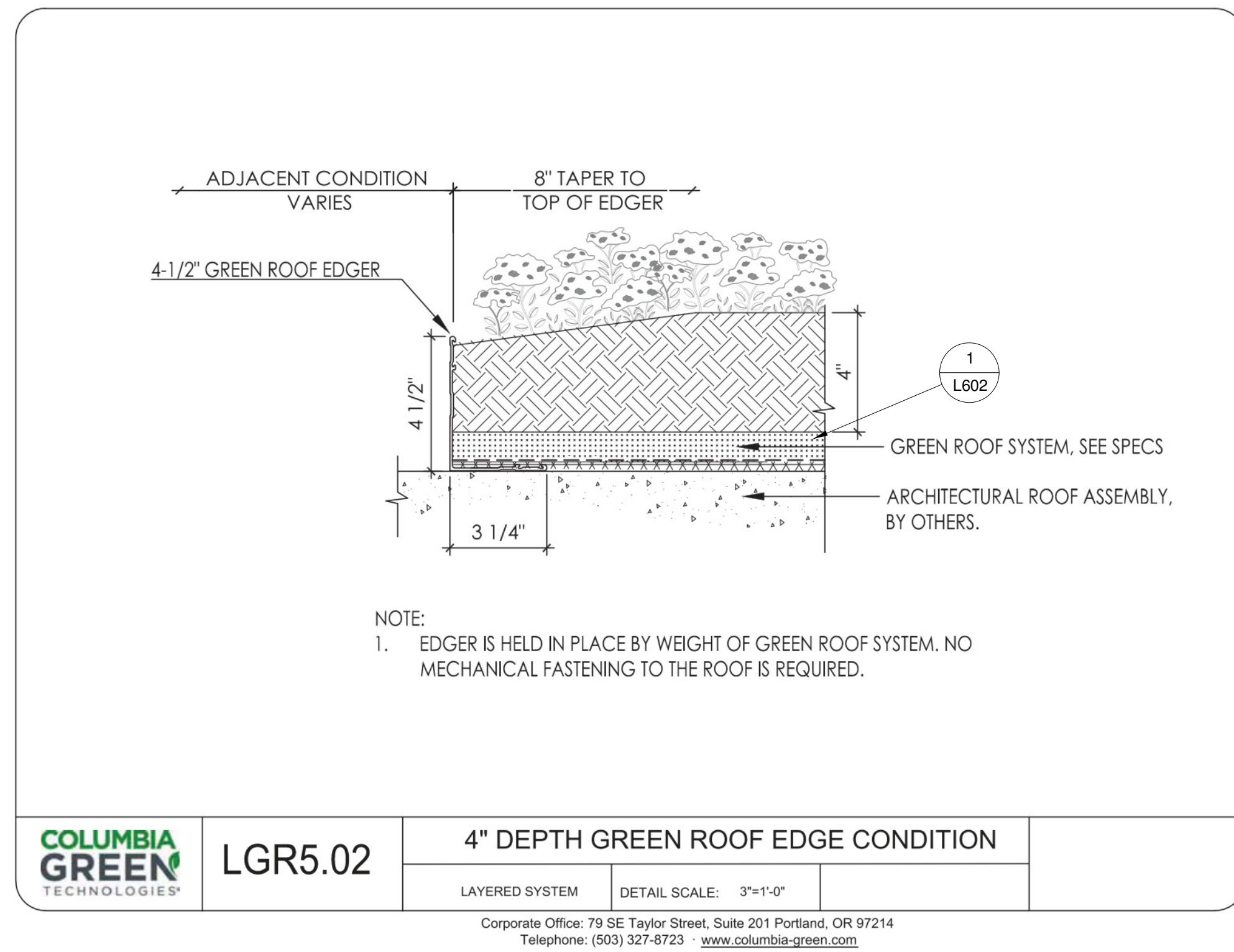
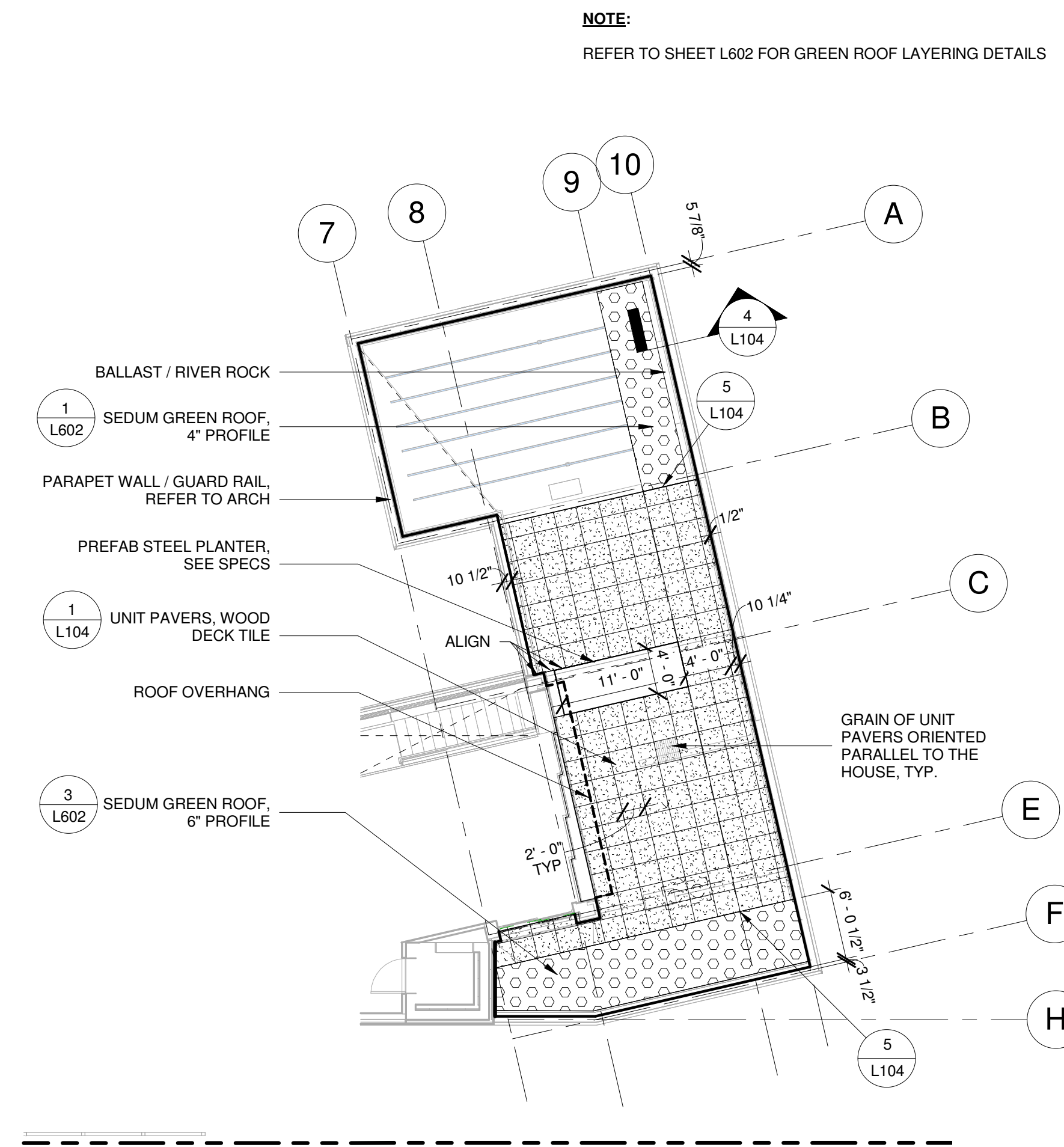
**LANDSCAPE ENLARGEMENTS L103**



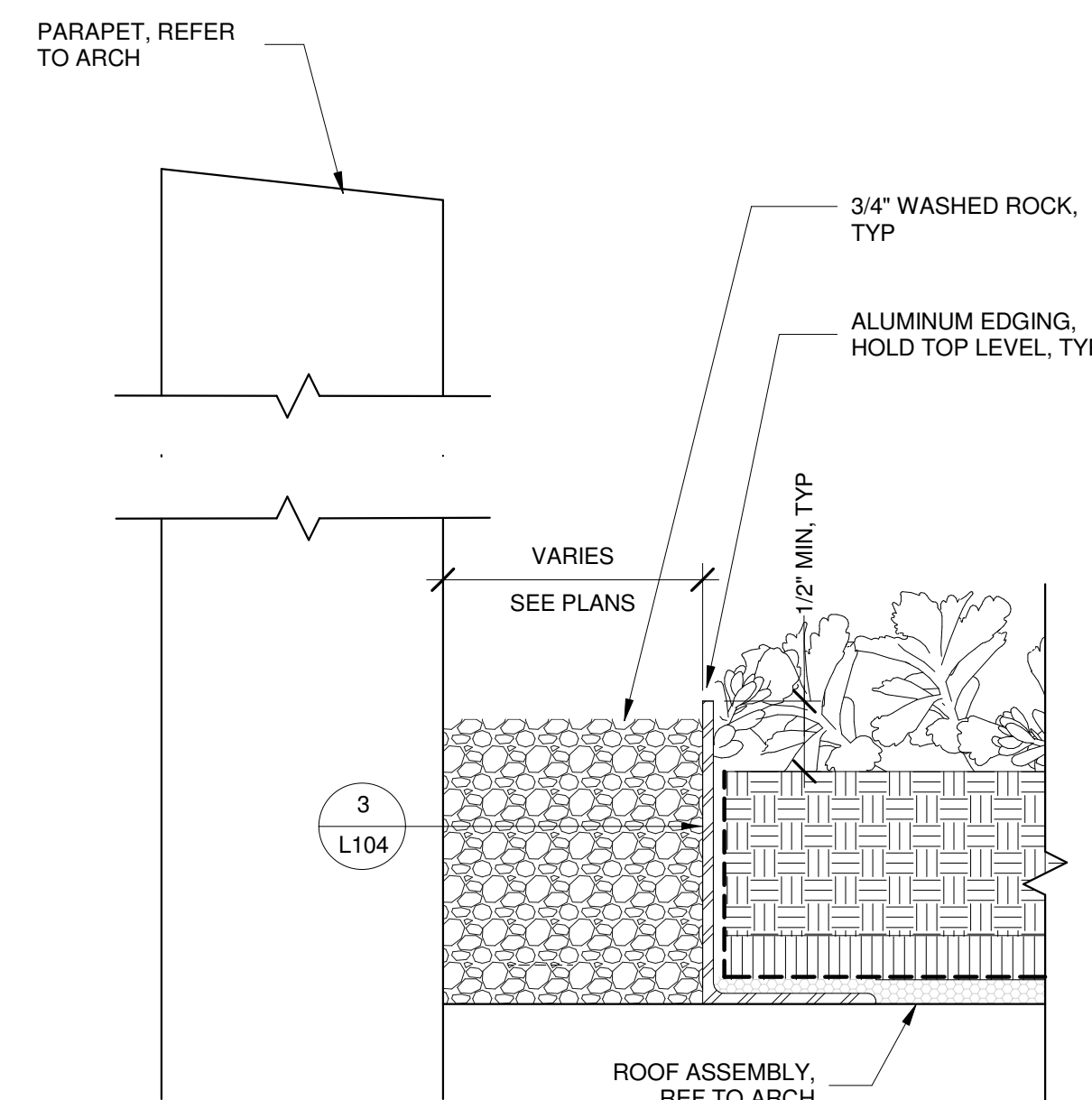
1 UNIT PAVERS - PEDESTAL SET ON STRUCTURE  
1 1/2" = 1'-0"



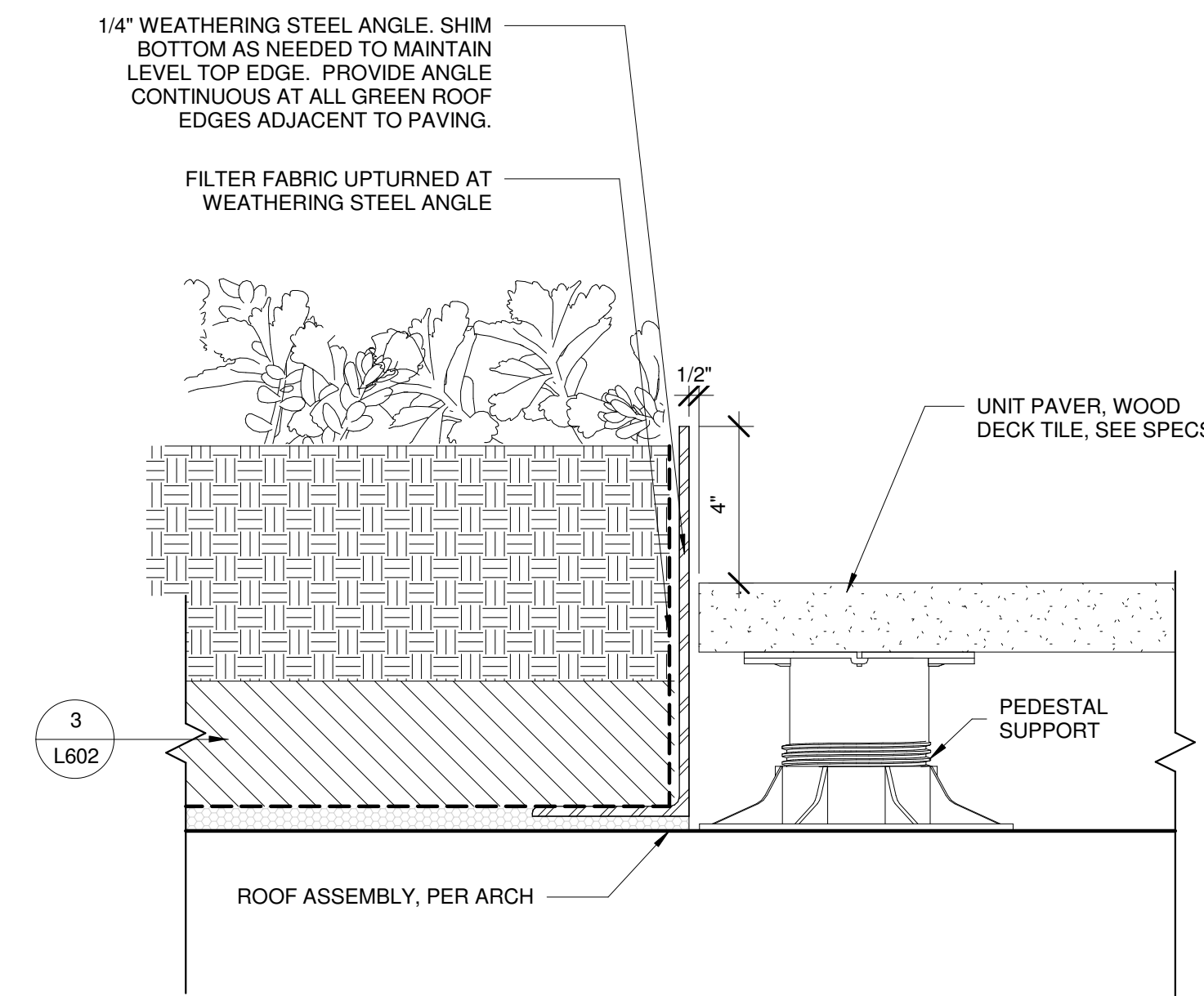
2 ROOF PLAN  
1" = 10'-0"



3 GREEN ROOF, EDGING IN 4" DEPTH  
1 1/2" = 1'-0"



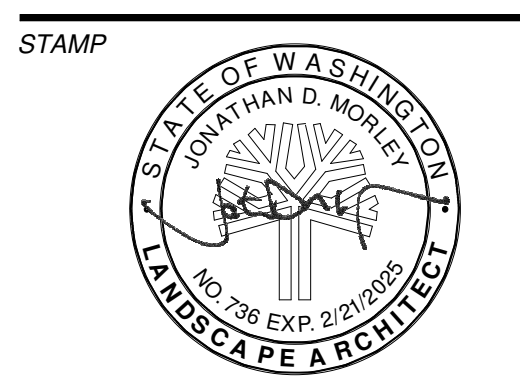
4 RIVER ROCK EDGE CONDITION AT PARAPET  
3" = 1'-0"



5 ELEVATED STEEL EDGING AT SOUTH PLANTER  
3" = 1'-0"

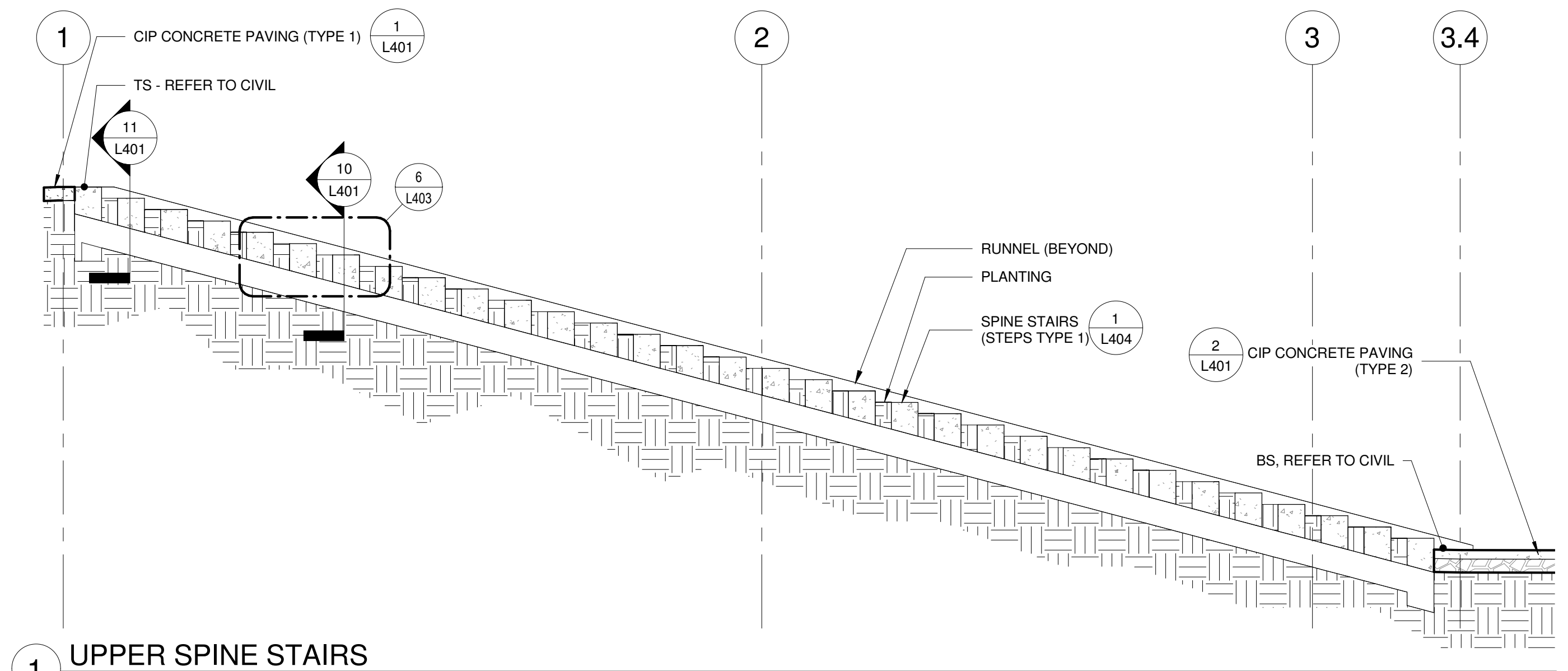
REVISIONS		
No.	Description	Date



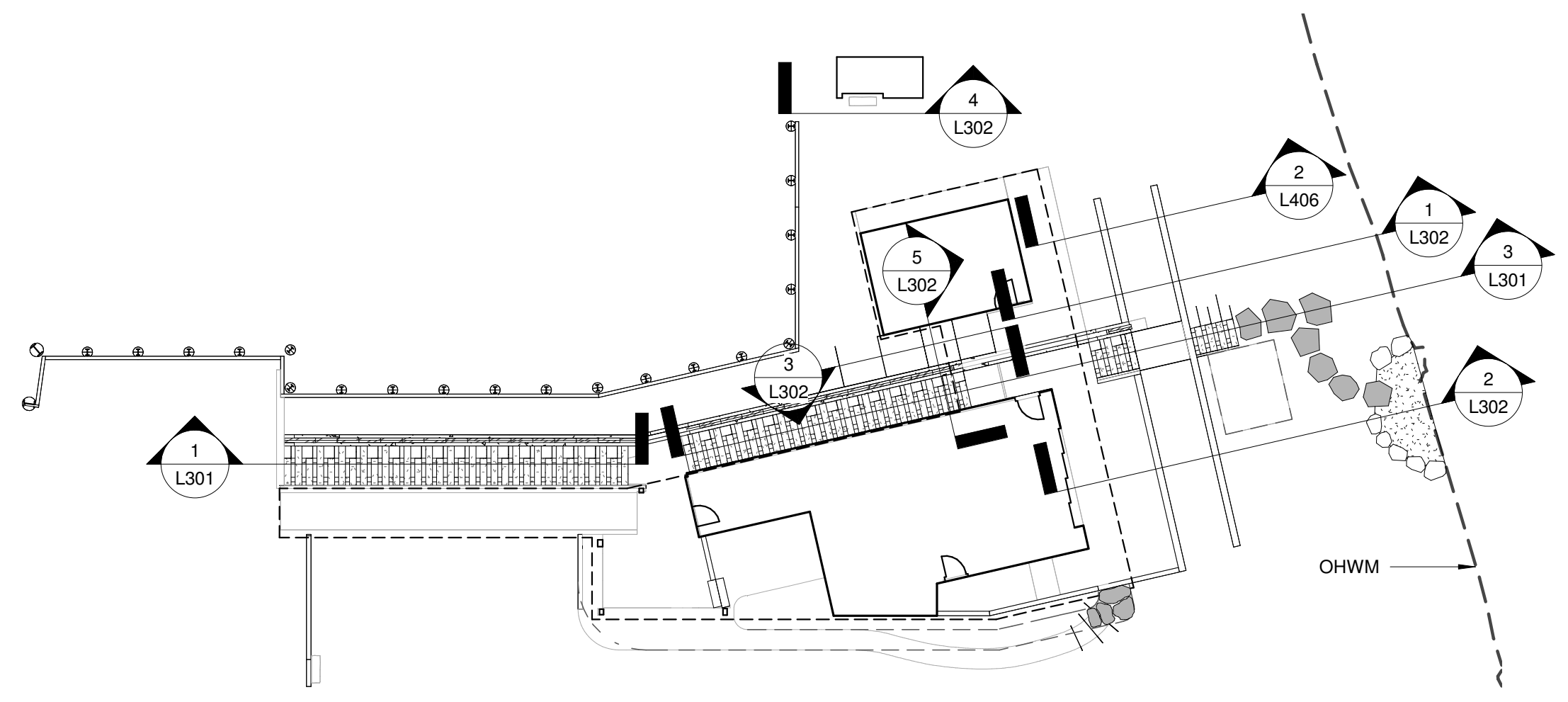


STAMP

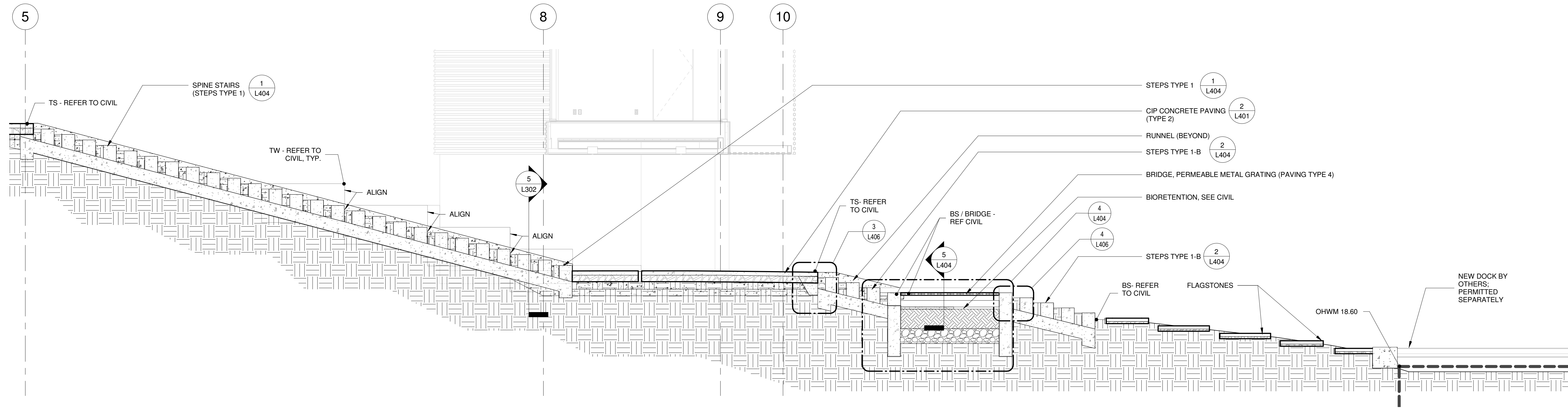
- LEGEND:**
- BS BOTTOM OF STAIR
  - FG FINISH GRADE
  - OHWM ORDINARY HIGH WATER MARK
  - TS TOP OF STAIR
  - TW TOP OF WALL



**1** UPPER SPINE STAIRS  
 1/4" = 1'-0"



**2** SITE SECTIONS KEY MAP  
 1" = 20'-0"



**3** LOWER SPINE TO LAKESIDE SECTION  
 1/4" = 1'-0"

**MERCER ISLAND HOUSE: CASCADE**

6838 96th Ave SE  
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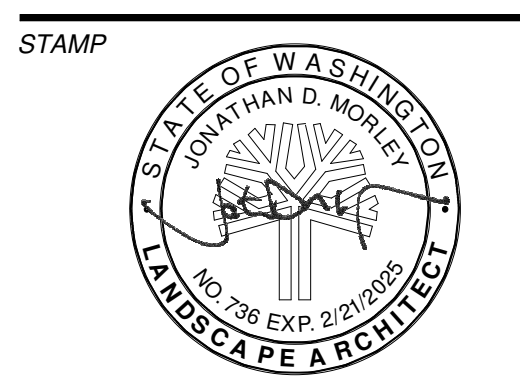
REVISIONS

No.	Description	Date

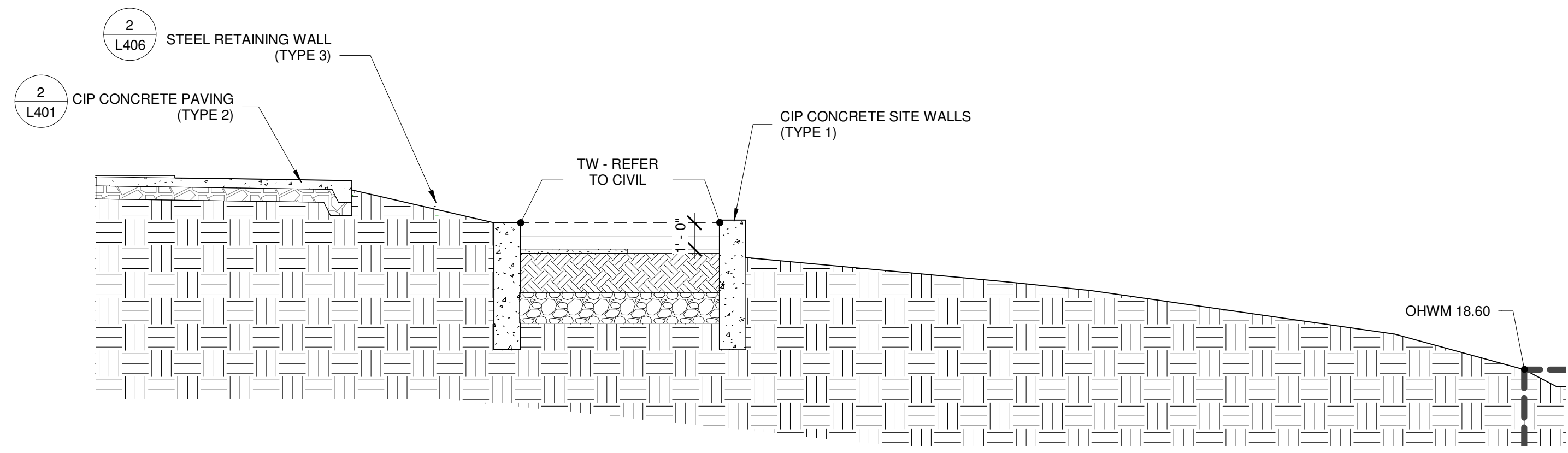
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 MJH Proj No.: A20.0085.00  
 Issue Date: FEBRUARY 24, 2023

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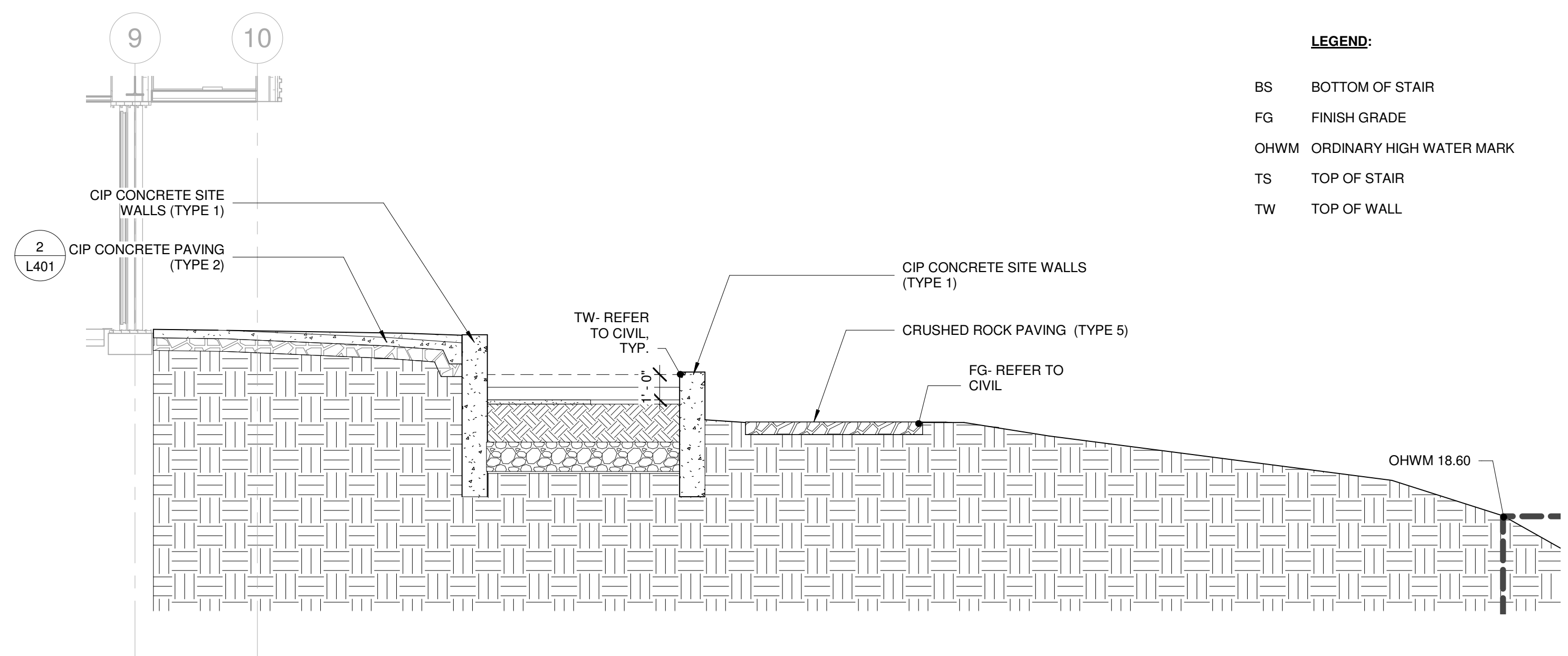
**SITE SECTIONS L301**



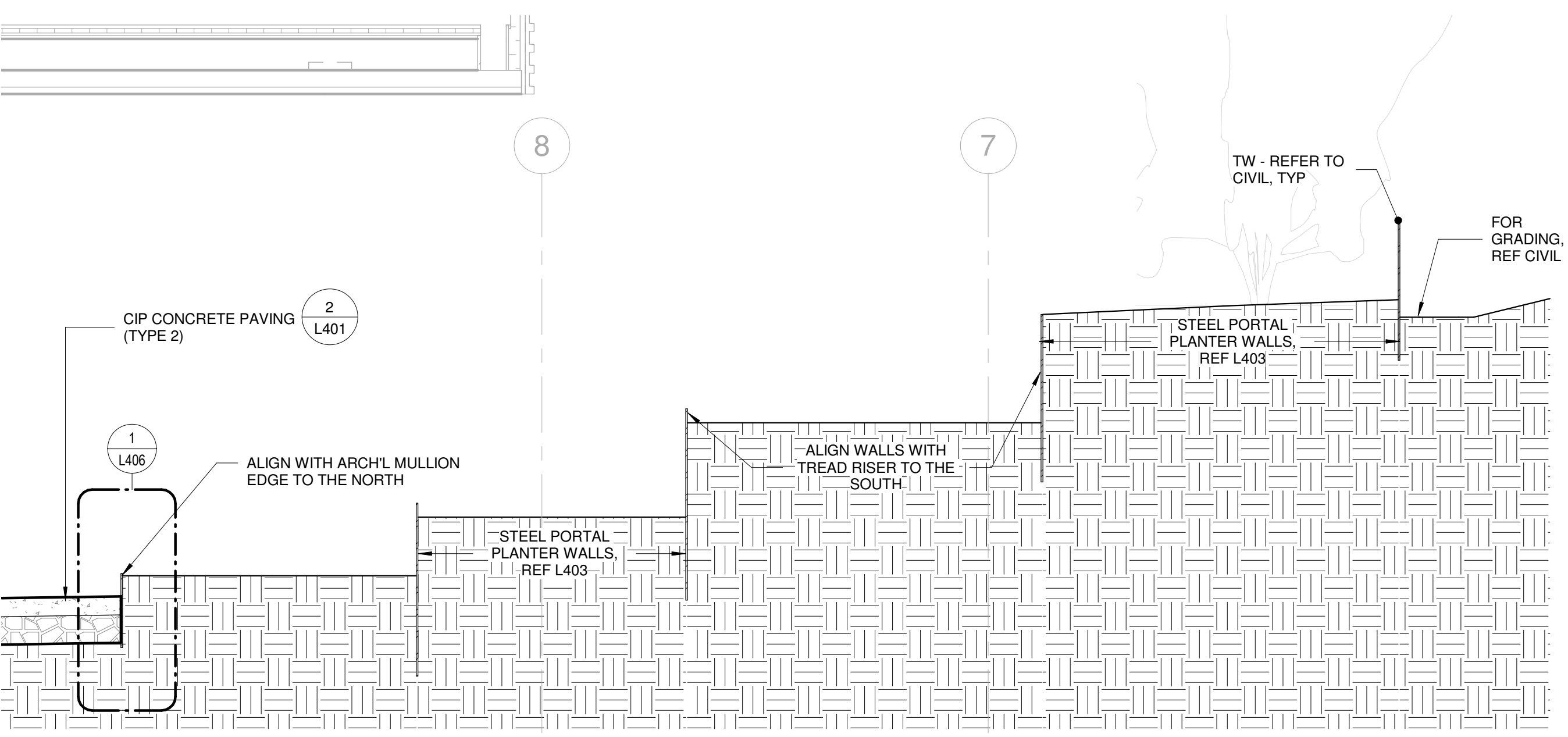
- LEGEND:**
- BS BOTTOM OF STAIR
  - FG FINISH GRADE
  - OHWM ORDINARY HIGH WATER MARK
  - TS TOP OF STAIR
  - TW TOP OF WALL



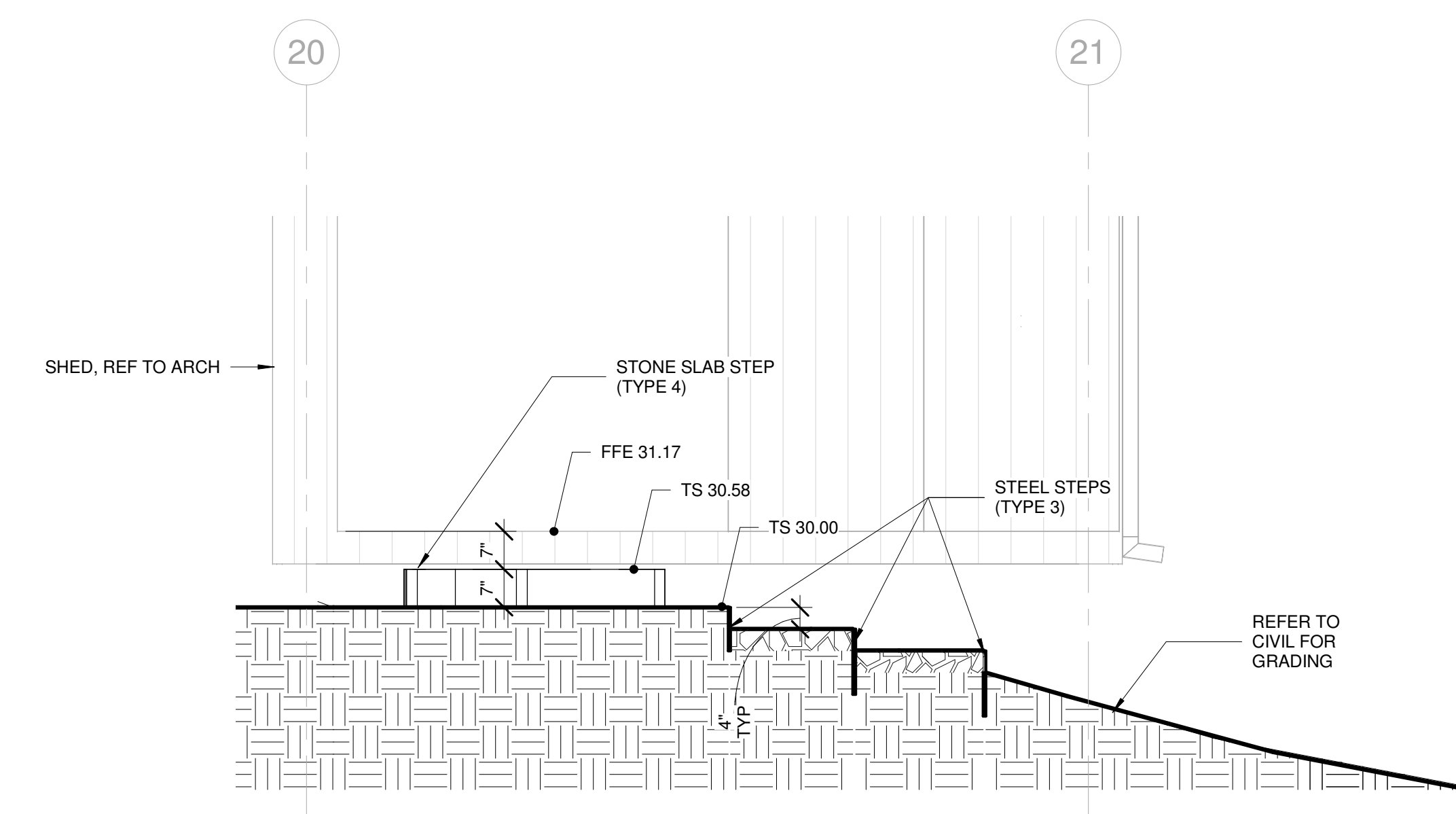
**1 LAKESIDE BIORETENTION NORTH**  
 1/4" = 1'-0"



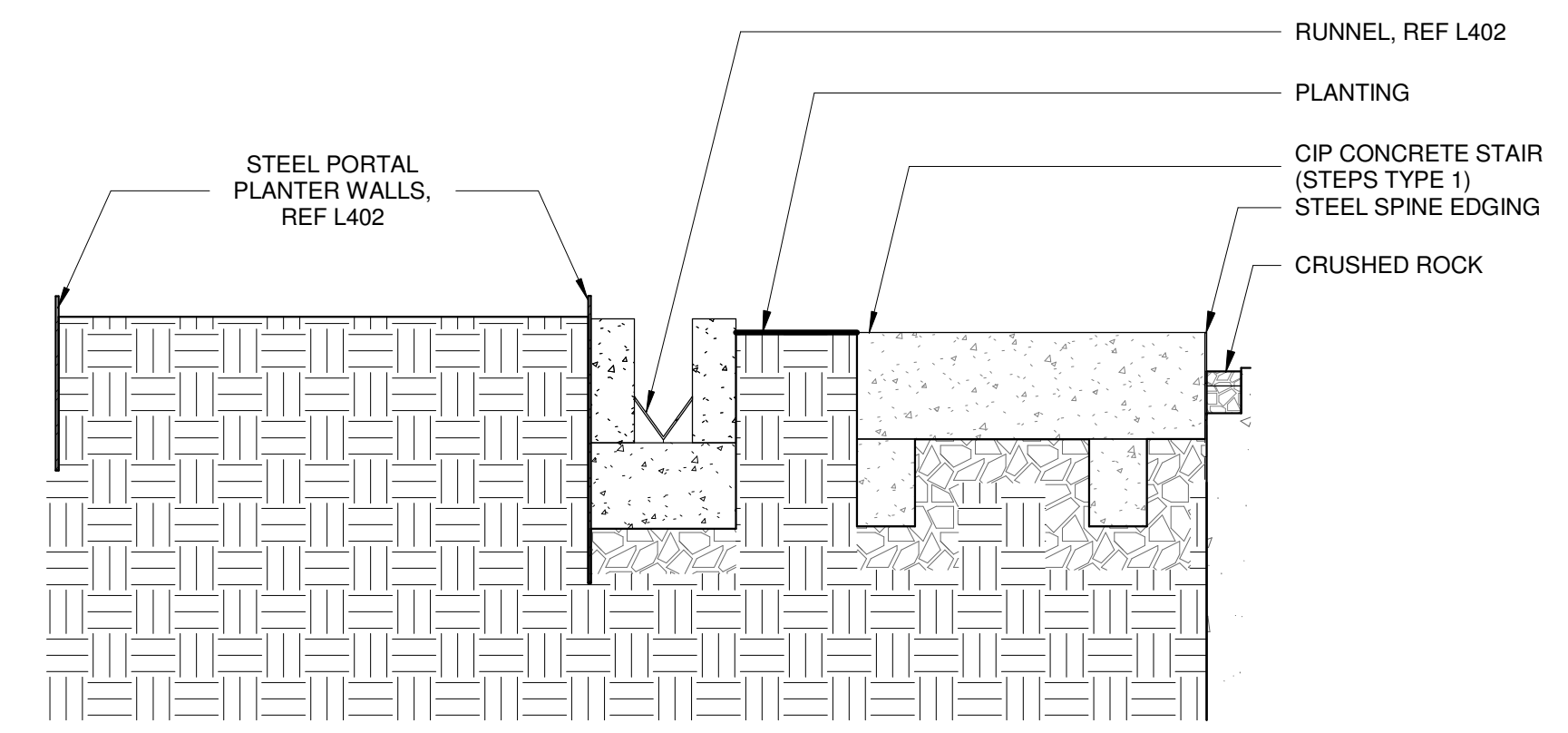
**2 LAKESIDE BIORETENTION SOUTH**  
 1/4" = 1'-0"



**3 PORTAL SECTION E-W**  
 1/2" = 1'-0"



**4 SHED STAIRS**  
 1/2" = 1'-0"



**5 PORTAL SECTION N-S**  
 1/2" = 1'-0"

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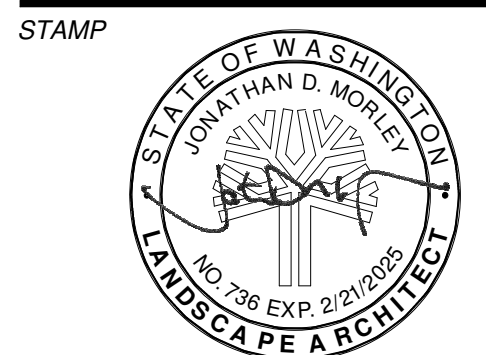
No.	Description	Date

Drawn: JM / SL / CA / SM  
 Checked: JM / SL / CA  
 MJH Proj No.: A20.0085.00

Issue Date: FEBRUARY 24, 2023

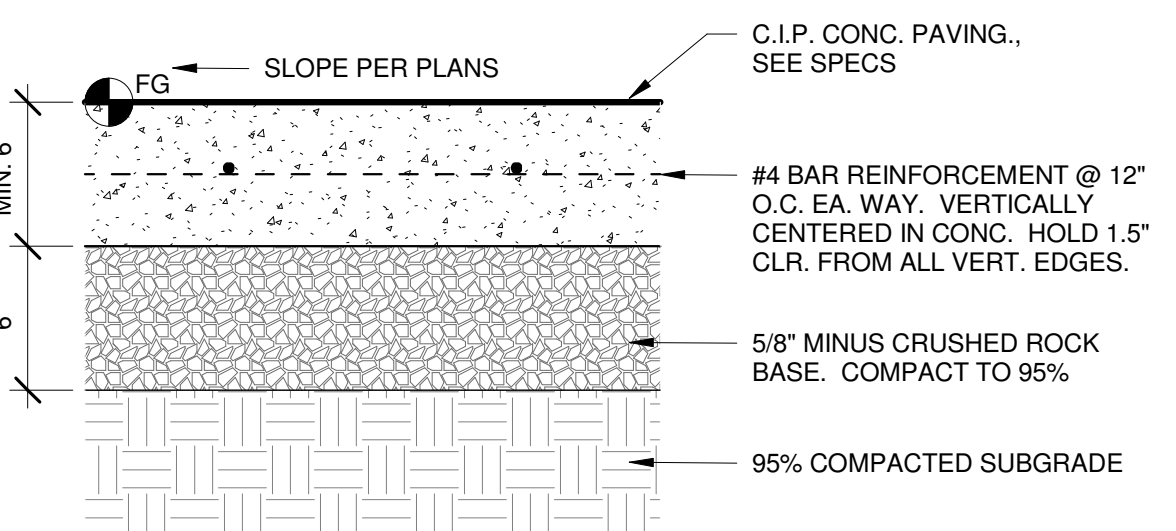
SHEET

**SITE SECTIONS L302**



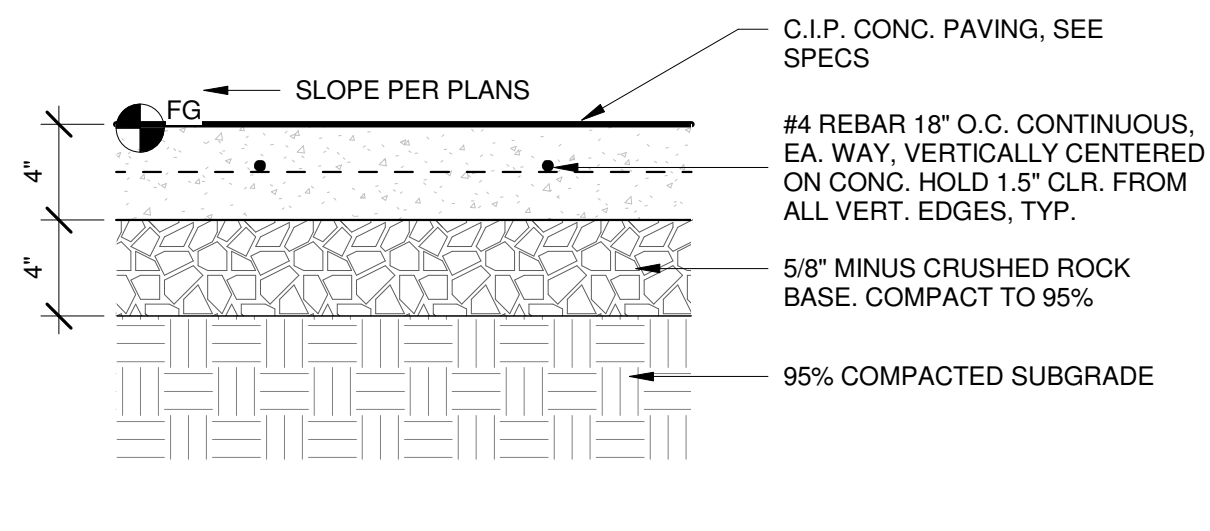
STAMP

- NOTES:
1. MIN. CROSS SLOPE (PERPENDICULAR TO DIRECTION OF TRAVEL) SHALL BE 1%. MAX. CROSS SLOPE SHALL BE LESS THAN OR EQUAL TO 2%.
  2. MEET ALL ADJACENT PAVING SURFACES IN FLUSH CONDITION UNLESS NOTED OTHERWISE.
  3. SLOPE OF PAVING SHALL MATCH ADJACENT PAVING WHERE POSSIBLE.

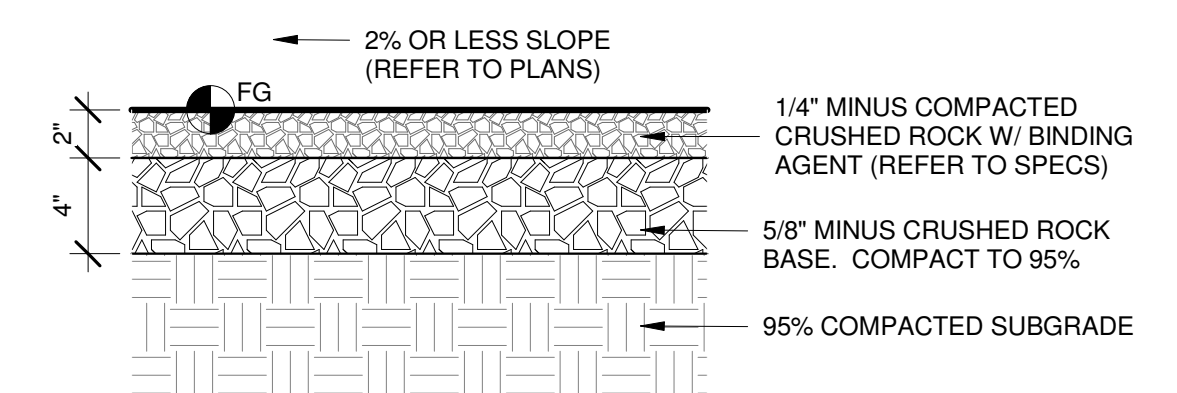


**1 CIP CONCRETE - VEHICULAR (PAVING TYPE 1)**  
 1 1/2" = 1'-0"

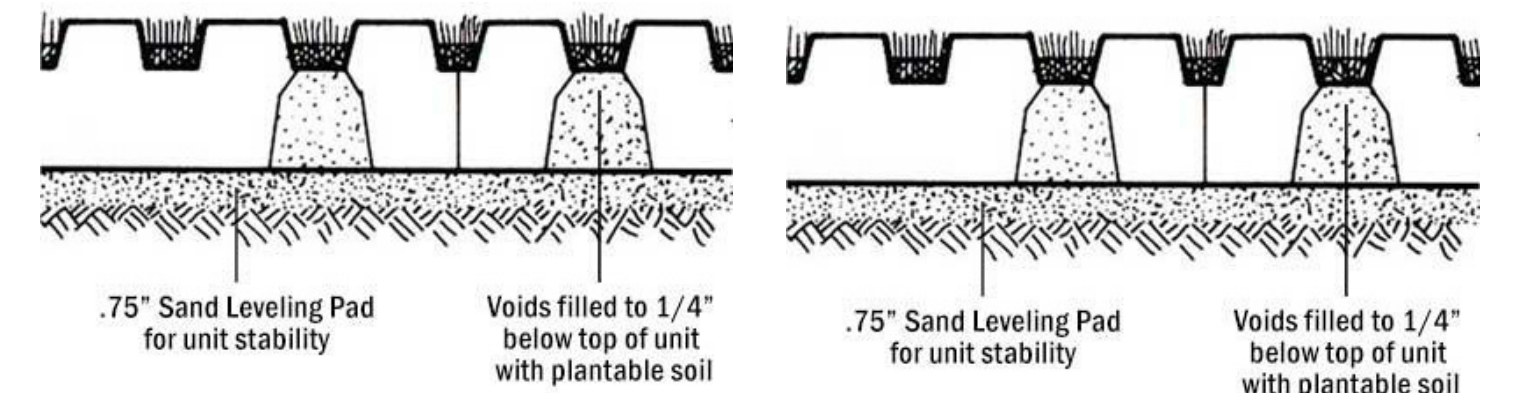
- NOTES:
1. MIN. CROSS SLOPE (PERPENDICULAR TO DIRECTION OF TRAVEL) SHALL BE 1%. MAX. CROSS SLOPE SHALL BE LESS THAN OR EQUAL TO 2%.
  2. MEET ANY ADJACENT PAVING SURFACES IN FLUSH CONDITION UNLESS NOTED OTHERWISE.
  3. SLOPE OF PAVING SHALL MATCH ADJACENT PAVING WHERE POSSIBLE.



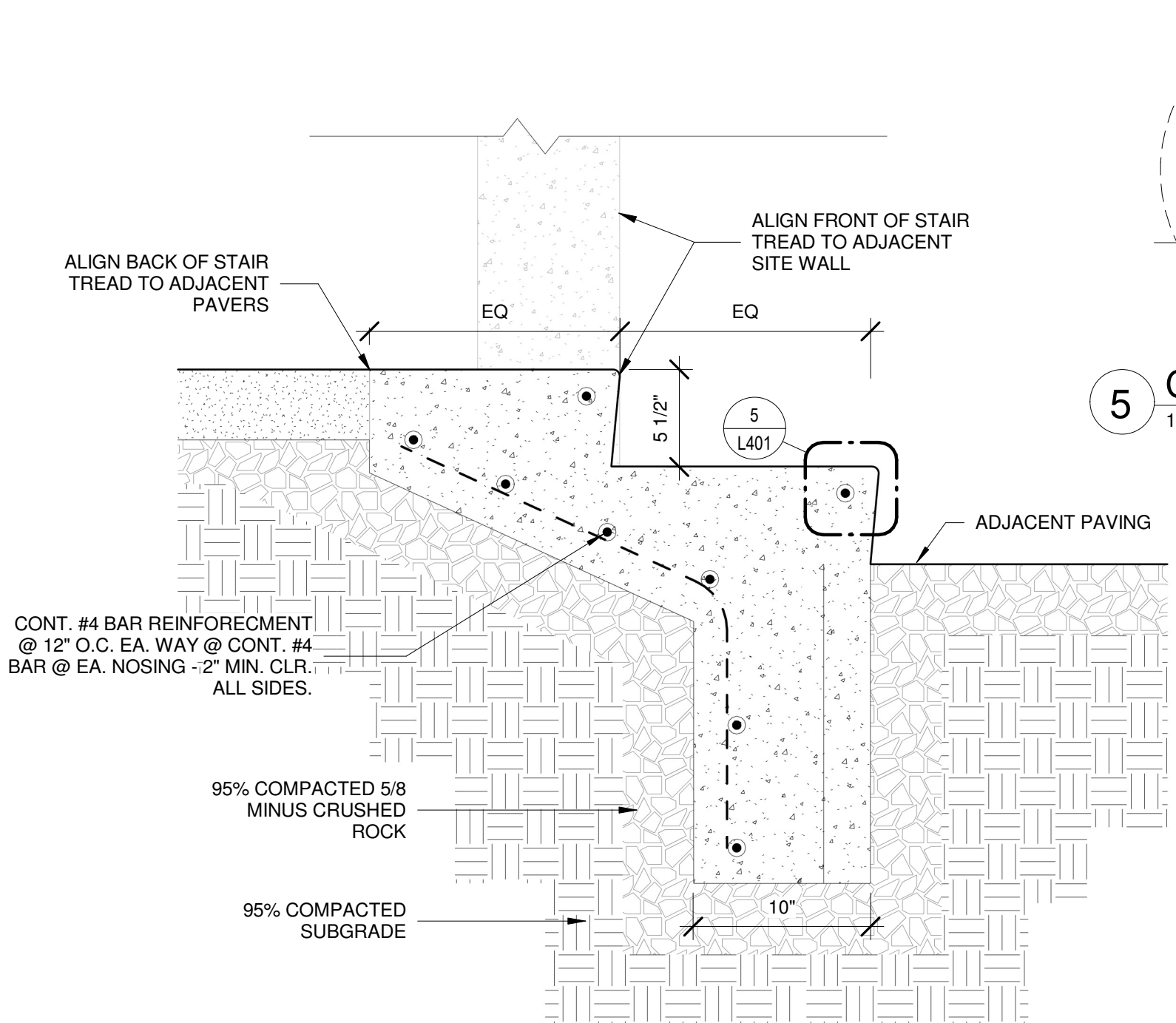
**2 CIP CONCRETE - PEDESTRIAN (PAVING TYPE 2)**  
 1 1/2" = 1'-0"



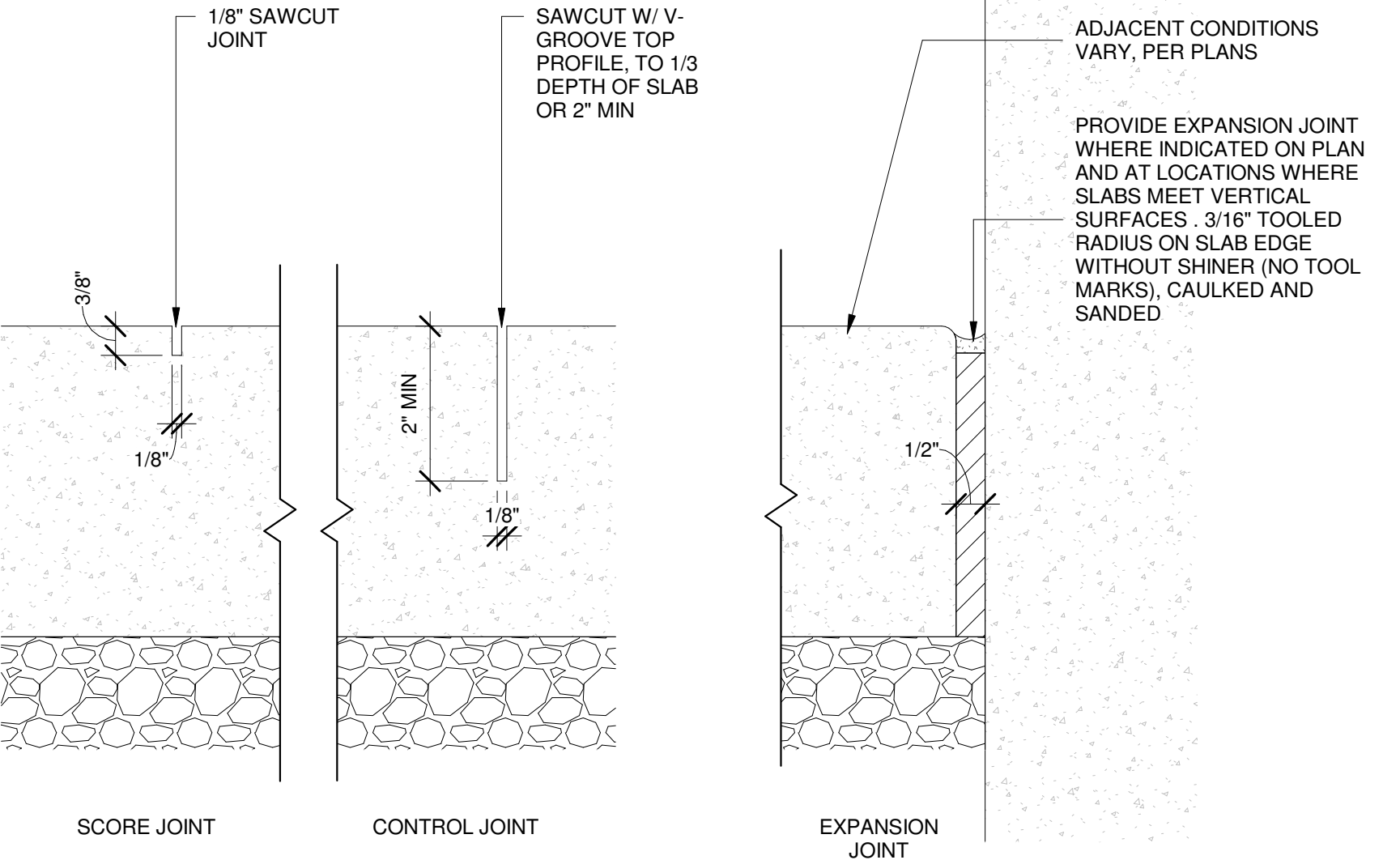
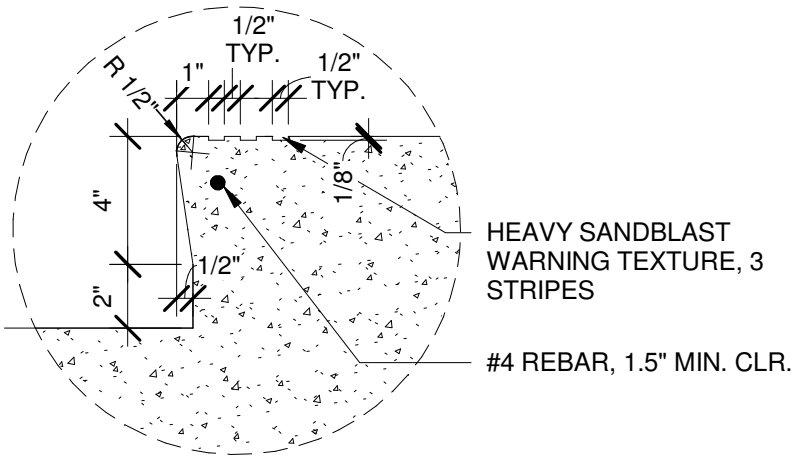
**3 CRUSHED ROCK (PAVING TYPE 5)**  
 1 1/2" = 1'-0"



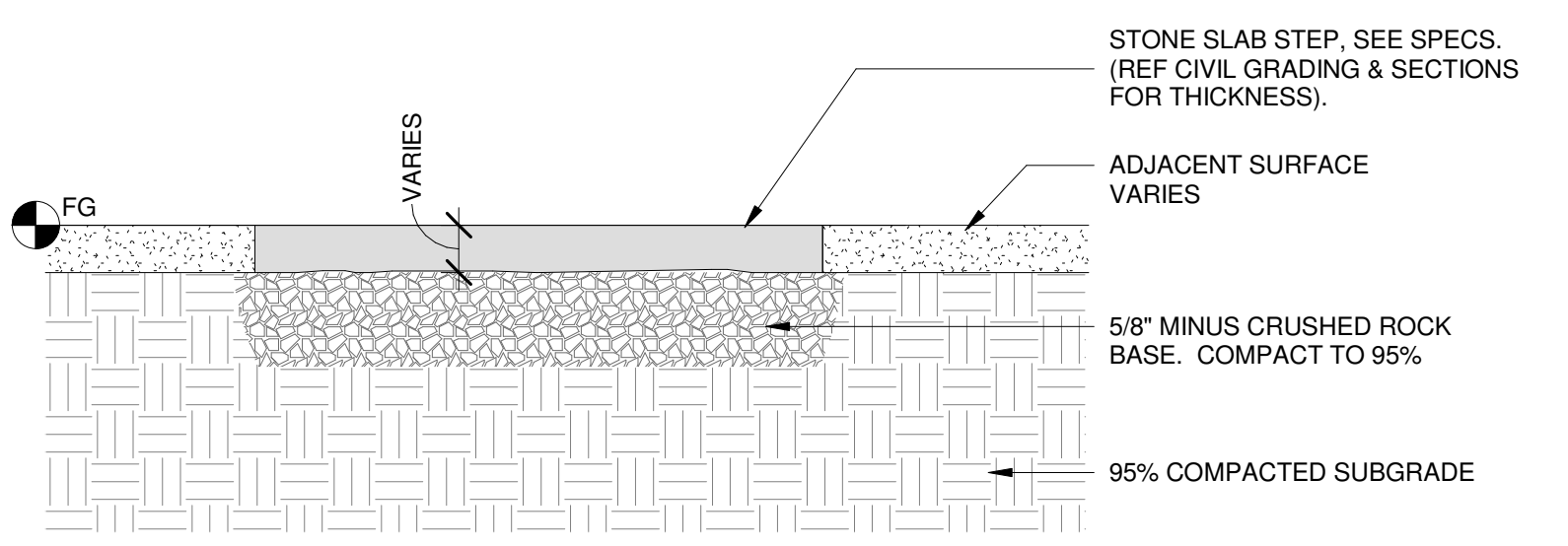
**4 TURF BLOCK DETAIL (PAVING TYPE 3)**  
 NTS



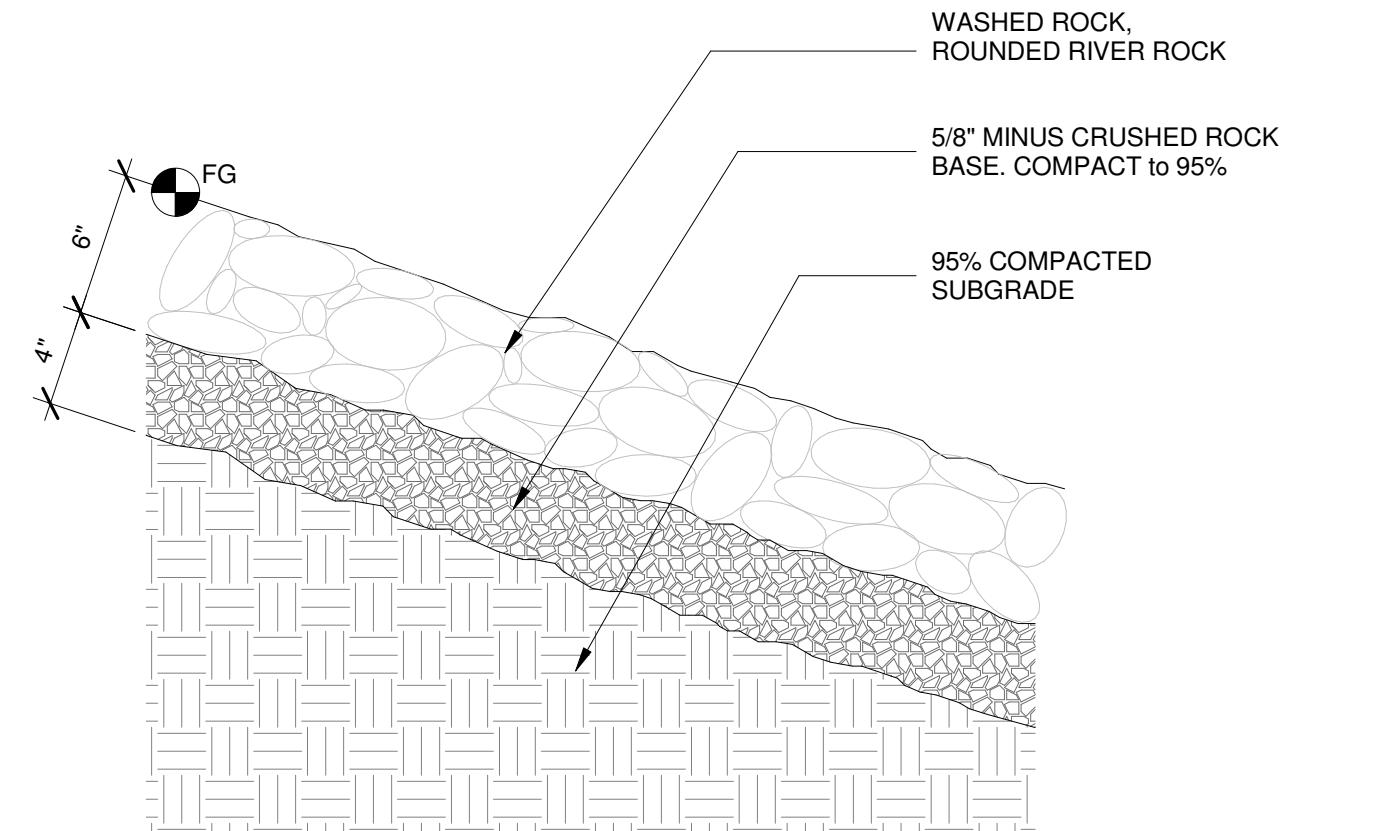
**5 CONCRETE STAIR NOSING**  
 1:6



**8 CIP CONCRETE JOINTING**  
 6" = 1'-0"



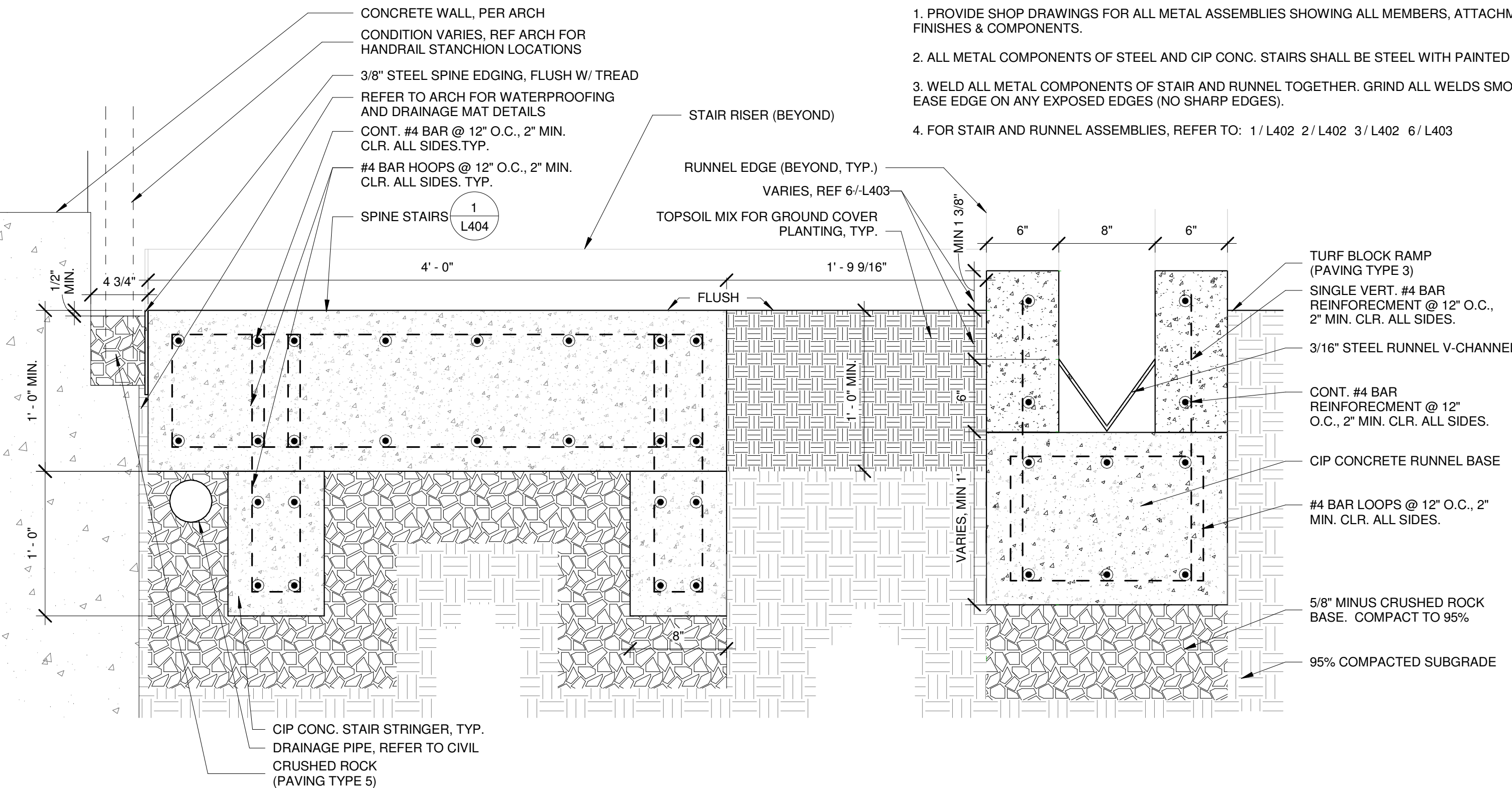
**6 STONE SLAB STEPS**  
 1 1/2" = 1'-0"



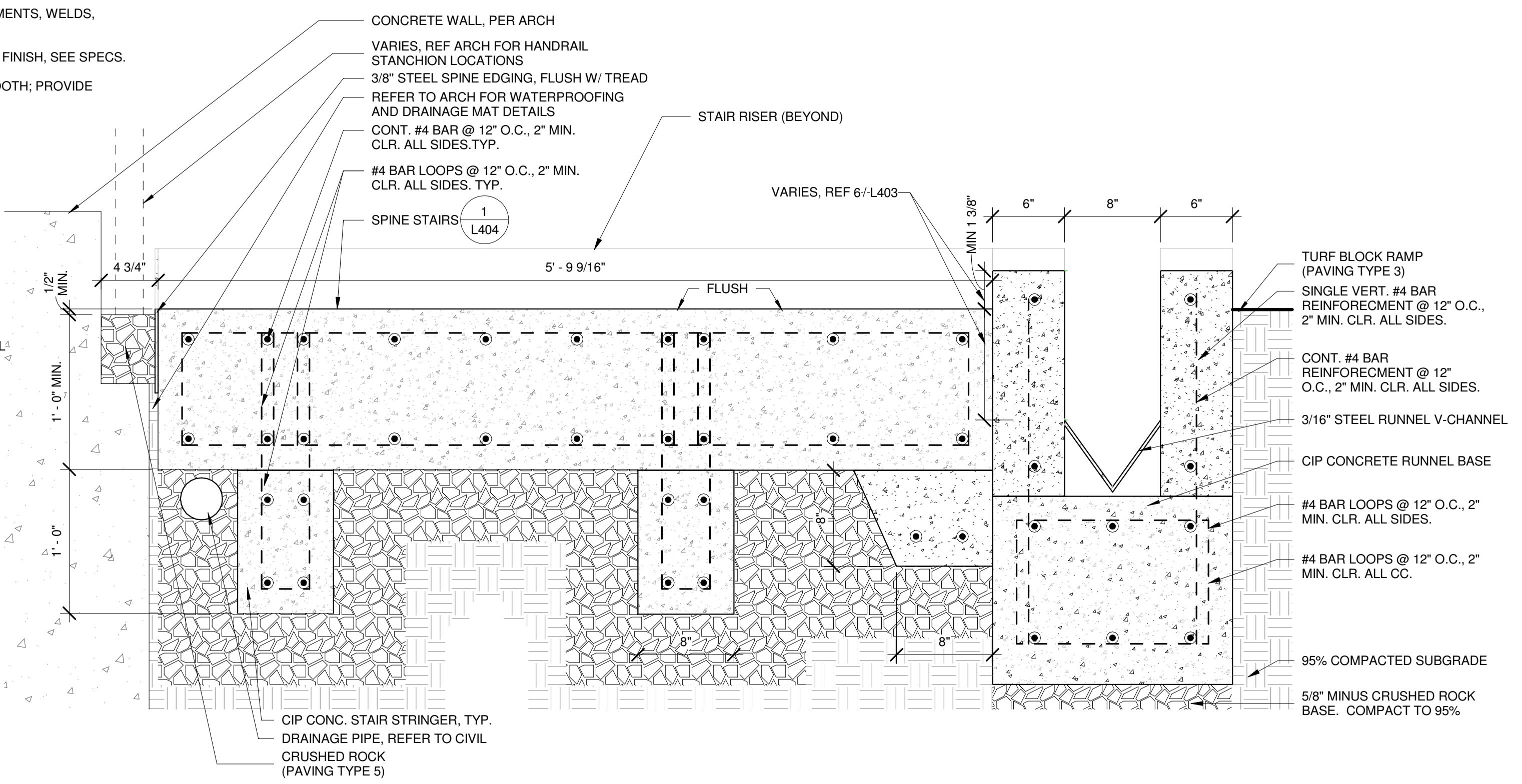
**9 ROCK MULCH DETAIL**  
 1 1/2" = 1'-0"

**7 CIP CONCRETE STAIRS (TYPE 2) - DOG RUN**  
 1 1/2" = 1'-0"

- SPINE STAIRS NOTES:**
1. PROVIDE SHOP DRAWINGS FOR ALL METAL ASSEMBLIES SHOWING ALL MEMBERS, ATTACHMENTS, WELDS, FINISHES & COMPONENTS.
  2. ALL METAL COMPONENTS OF STEEL AND CIP CONC. STAIRS SHALL BE STEEL WITH PAINTED FINISH, SEE SPECS.
  3. WELD ALL METAL COMPONENTS OF STAIR AND RUNNEL TOGETHER. GRIND ALL WELDS SMOOTH; PROVIDE EASE EDGE ON ANY EXPOSED EDGES (NO SHARP EDGES).
  4. FOR STAIR AND RUNNEL ASSEMBLIES, REFER TO: 1/L402 2/L402 3/L402 6/L403



**10 SPINE CROSS SECTION (4' TREAD)**  
 1 1/2" = 1'-0"



**11 SPINE CROSS SECTION (WIDE TREAD)**  
 1 1/2" = 1'-0"

**MERCER ISLAND HOUSE: CASCADE**

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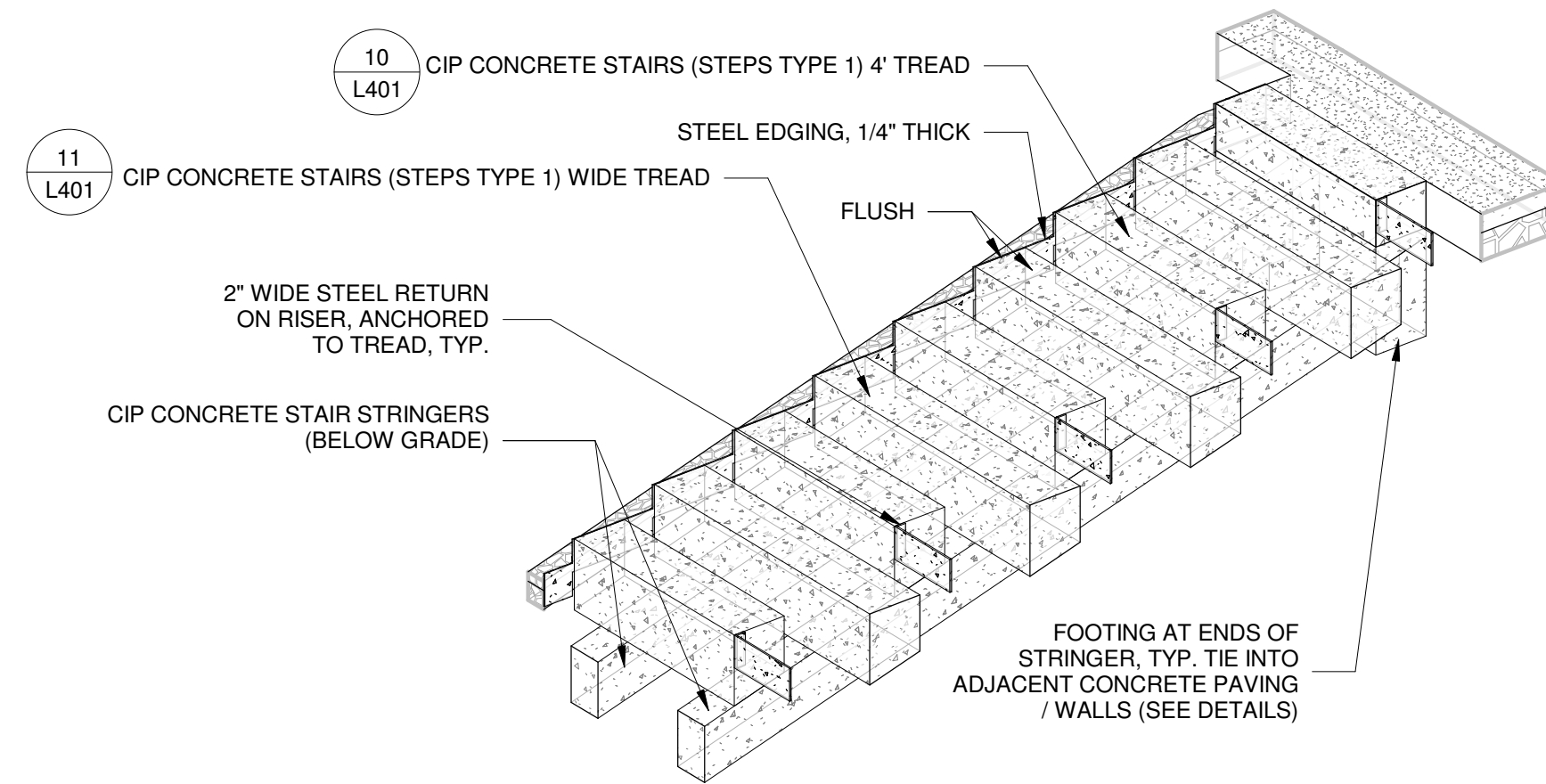
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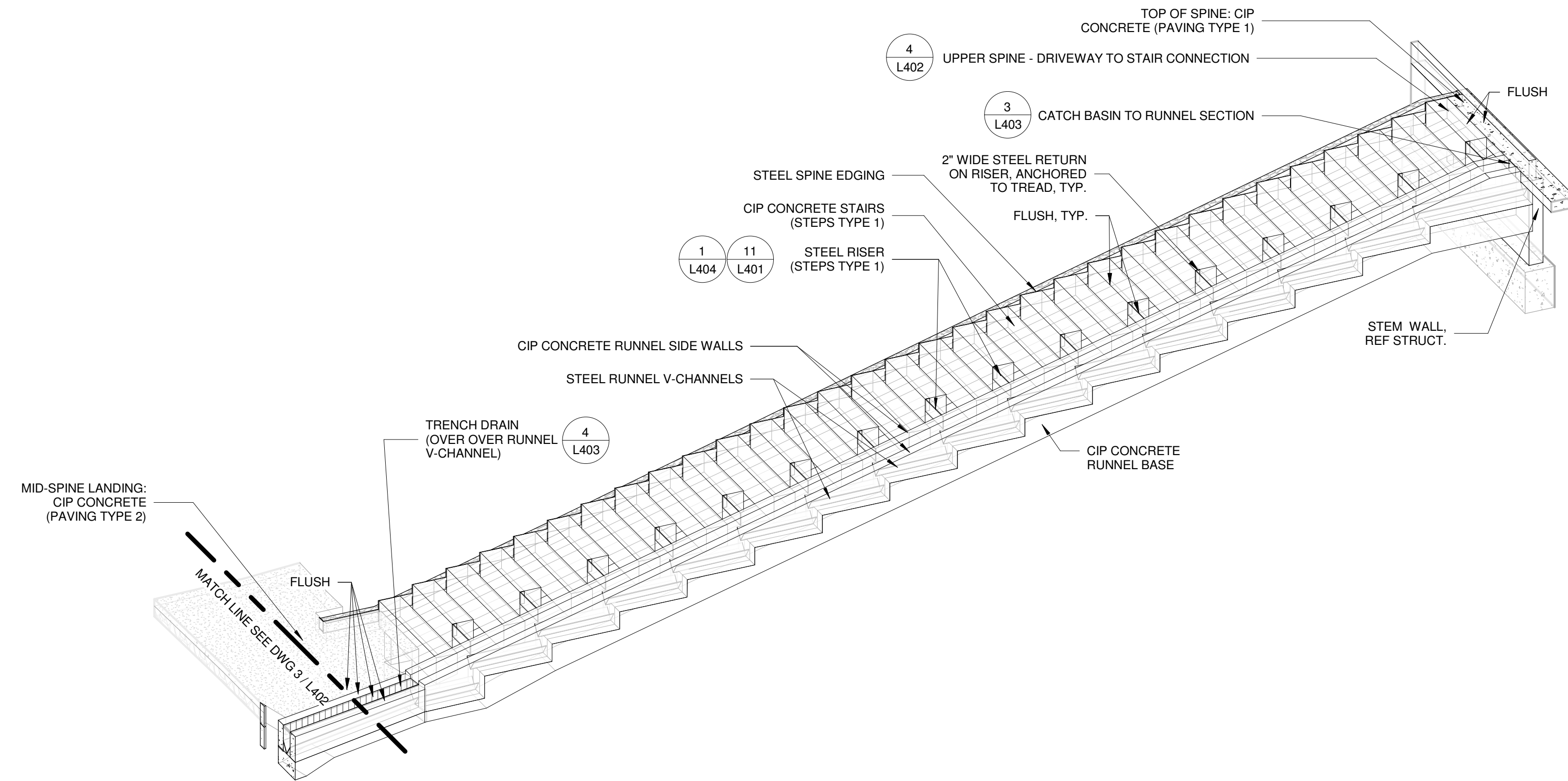
**SITE DETAILS - PAVING & STAIRS L401**

**SPINE GEN. NOTES:**  
(NOTES APPLY TO ALL DWGS ON THIS SHEET):

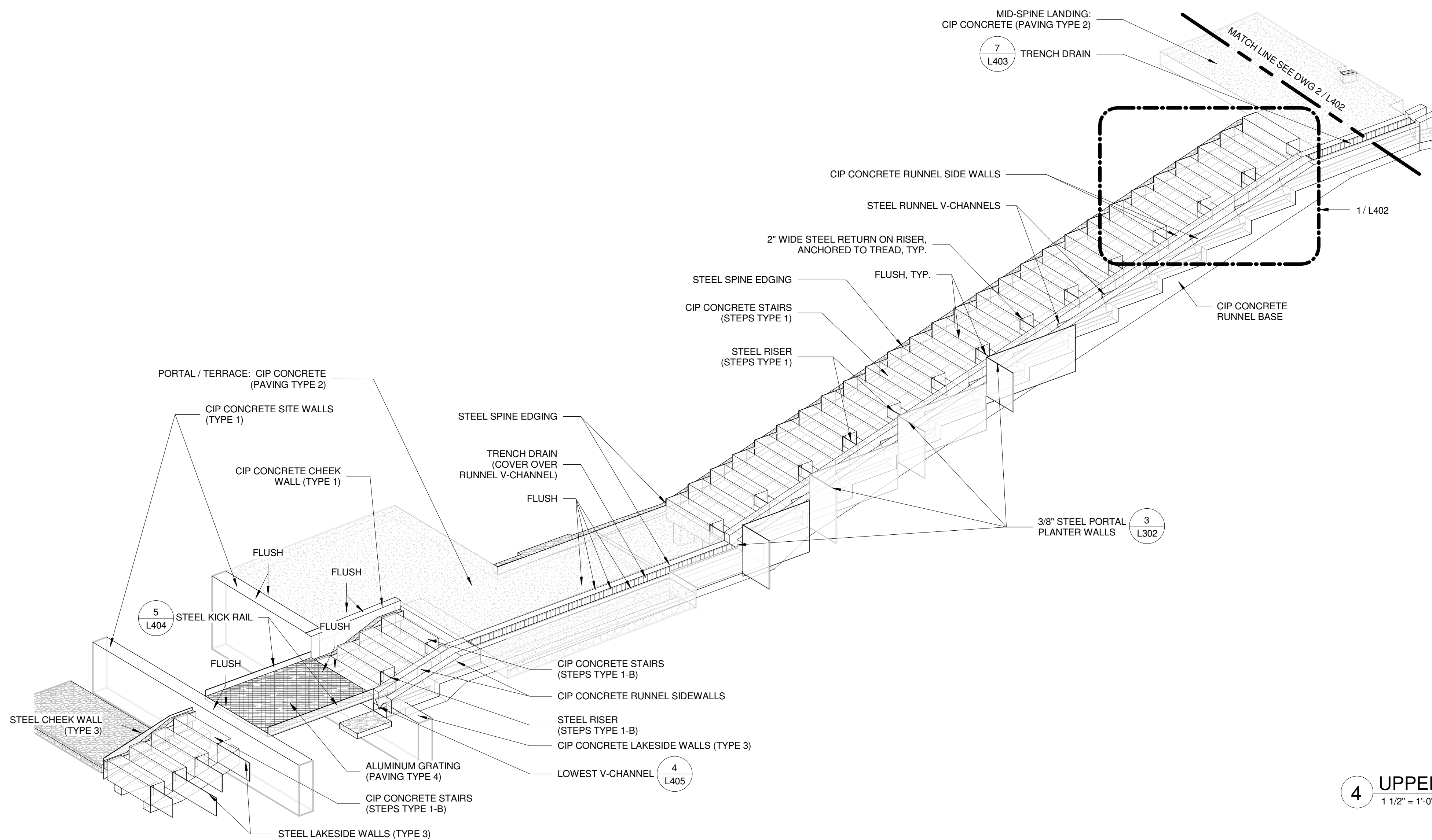
1. PROVIDE SHOP DRAWINGS FOR ALL METAL ASSEMBLIES SHOWING ALL MEMBERS, ATTACHMENTS, WELDS, FINISHES & COMPONENTS.
2. ALL METAL COMPONENTS OF THE SPINE STAIR AND RUNNEL, AND ANY METAL COMPONENTS TOUCHING IT - INCLUDING PORTAL PLANTER WALLS & LAKESIDE WALLS - SHALL BE STEEL WITH PAINTED FINISH UNLESS OTHERWISE NOTED, SEE SPECS.
3. ALL METAL COMPONENTS OF THE SPINE STAIR AND RUNNEL AND ANY METAL COMPONENTS TOUCHING IT - INCLUDING PORTAL WALLS & LAKESIDE WALLS - SHALL BE 3/8" THICK, UNLESS OTHERWISE NOTED AND EXCEPT FOR THE STEEL RUNNEL V-CHANNEL & TAB, SEE SPECS. STEEL RUNNEL V-CHANNEL & TAB SHALL BE 3/16" THICK.
4. WELD ALL METAL COMPONENTS OF SPINE TOGETHER. GRIND ALL WELDS SMOOTH; PROVIDE EASE EDGE ON ANY EXPOSED EDGES (NO SHARP EDGES).
5. ALL V-CHANNELS LOCATIONS MUST MEET MINIMUM SECTION REQUIREMENTS (SEE 10/L401) FOR STORMWATER CAPACITY AND SPECIFIED SLOPES FOR POSITIVE DRAINAGE.



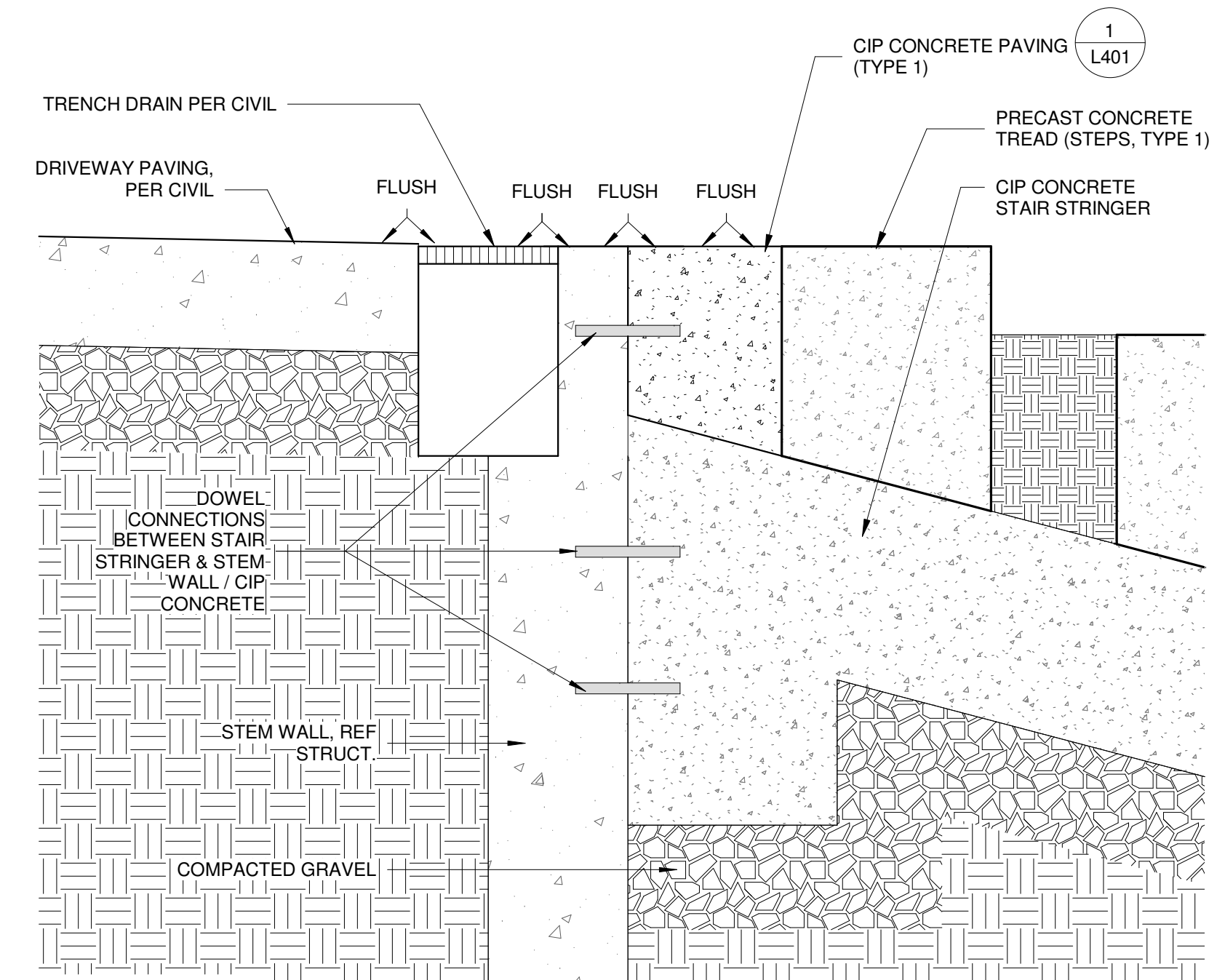
1 SPINE STAIR 3D AXON VIEW



2 UPPER SPINE - OVERALL 3D AXON VIEW

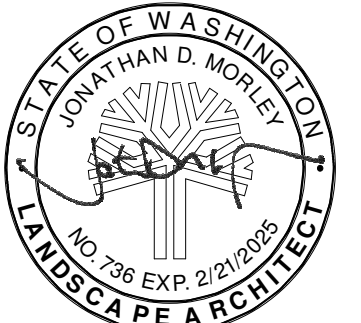


3 LOWER SPINE - OVERALL 3D AXON VIEW



4 UPPER SPINE - DRIVEWAY TO STAIR CONNECTION  
1 1/2" = 1'-0"

STAMP



**MERCER ISLAND HOUSE: CASCADE**

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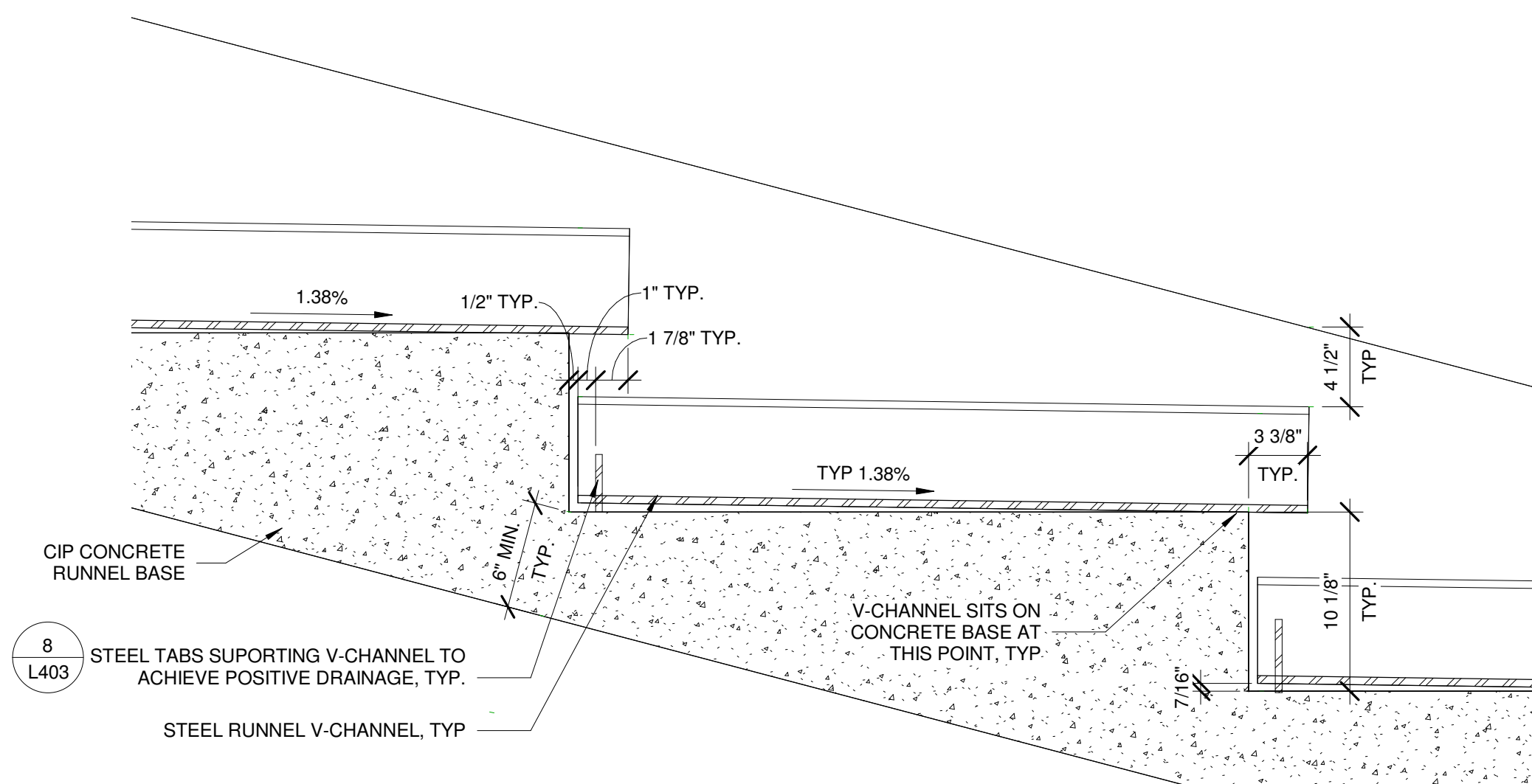
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MJH Proj No.: A20.0085.00  
Issue Date: FEBRUARY 24, 2023

SHEET

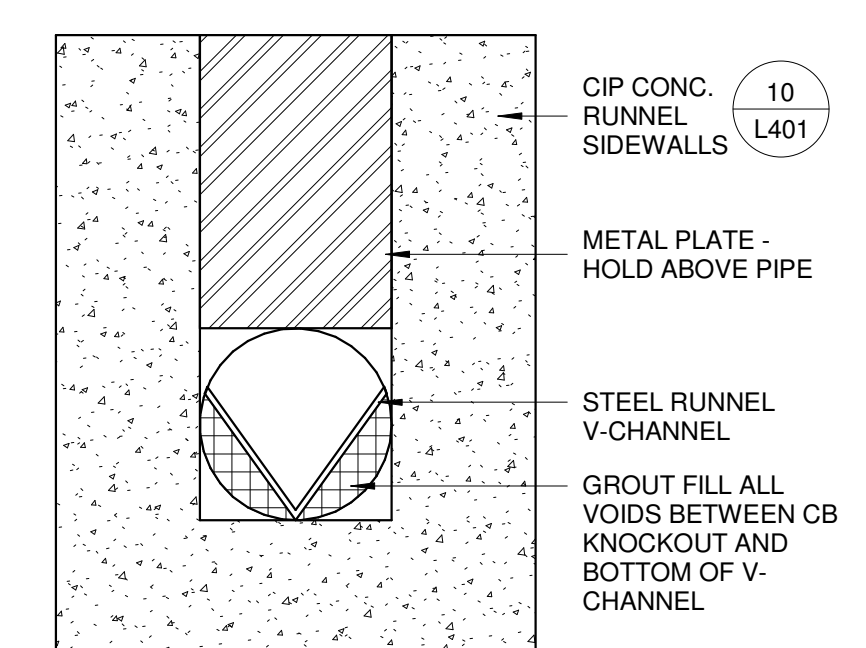
**SITE DETAILS - SPINE / RUNNEL L402**

**SPINE GEN. NOTES:**  
(NOTES APPLY TO ALL DWGS ON THIS SHEET):

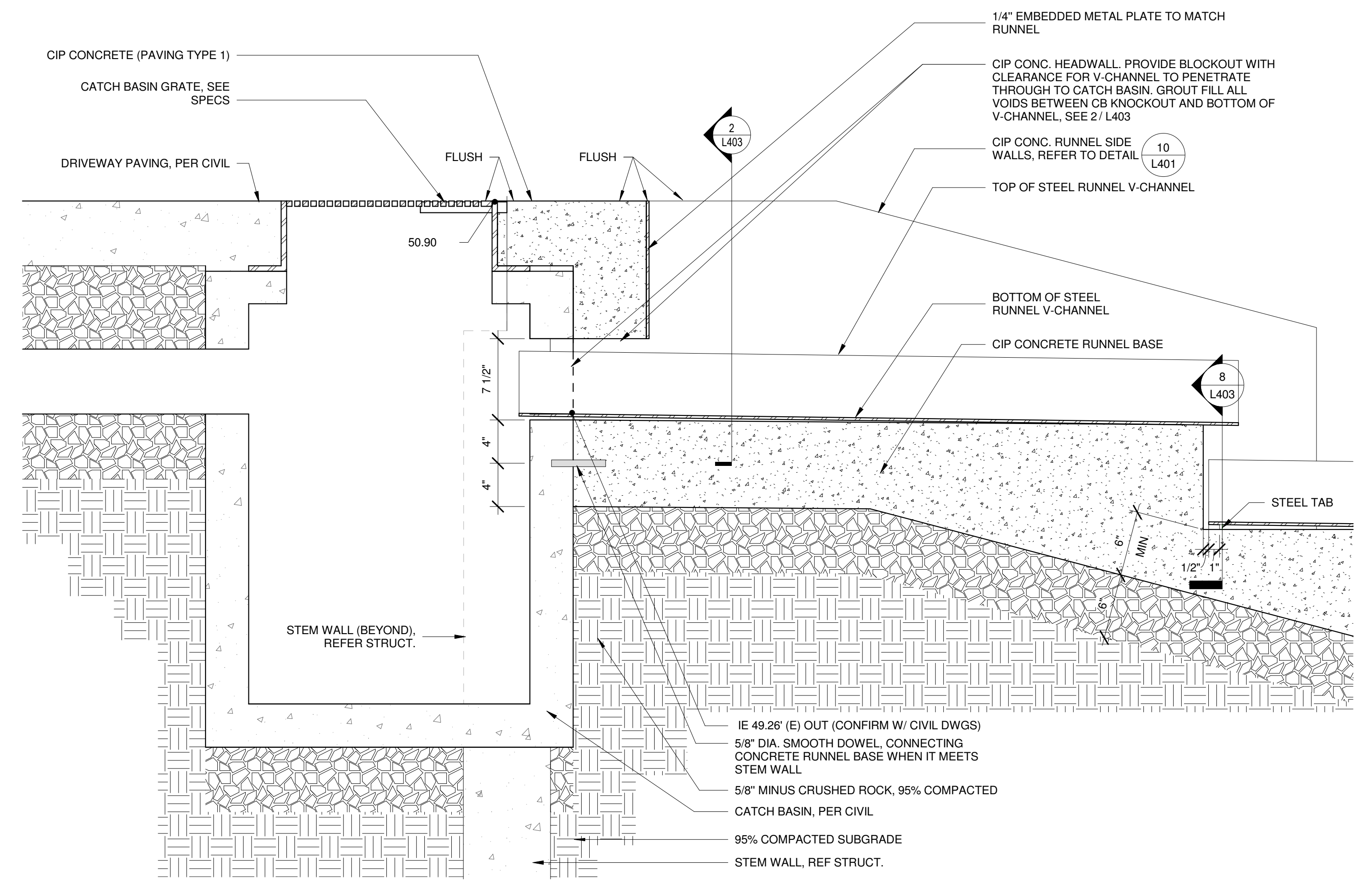
1. PROVIDE SHOP DRAWINGS FOR ALL METAL ASSEMBLIES SHOWING ALL MEMBERS, ATTACHMENTS, WELDS, FINISHES & COMPONENTS.
2. ALL METAL COMPONENTS OF THE SPINE STAIR AND RUNNEL, AND ANY METAL COMPONENTS TOUCHING IT - INCLUDING PORTAL PLANTER WALLS & LAKESIDE WALLS - SHALL BE STEEL WITH PAINTED FINISH UNLESS OTHERWISE NOTED, SEE SPECS.
3. ALL METAL COMPONENTS OF THE SPINE STAIR AND RUNNEL AND ANY METAL COMPONENTS TOUCHING IT - INCLUDING PORTAL WALLS & LAKESIDE WALLS - SHALL BE 3/8" THICK, UNLESS OTHERWISE NOTED AND EXCEPT FOR THE STEEL RUNNEL V-CHANNEL & TAB, SEE SPECS. STEEL RUNNEL V-CHANNEL & TAB SHALL BE 3/16" THICK.
4. WELD ALL METAL COMPONENTS OF SPINE TOGETHER. GRIND ALL WELDS SMOOTH; PROVIDE EASE EDGE ON ANY EXPOSED EDGES (NO SHARP EDGES).
5. ALL V-CHANNELS LOCATIONS MUST MEET MINIMUM SECTION REQUIREMENTS (SEE 10/L401) FOR STORMWATER CAPACITY AND SPECIFIED SLOPES FOR POSITIVE DRAINAGE.



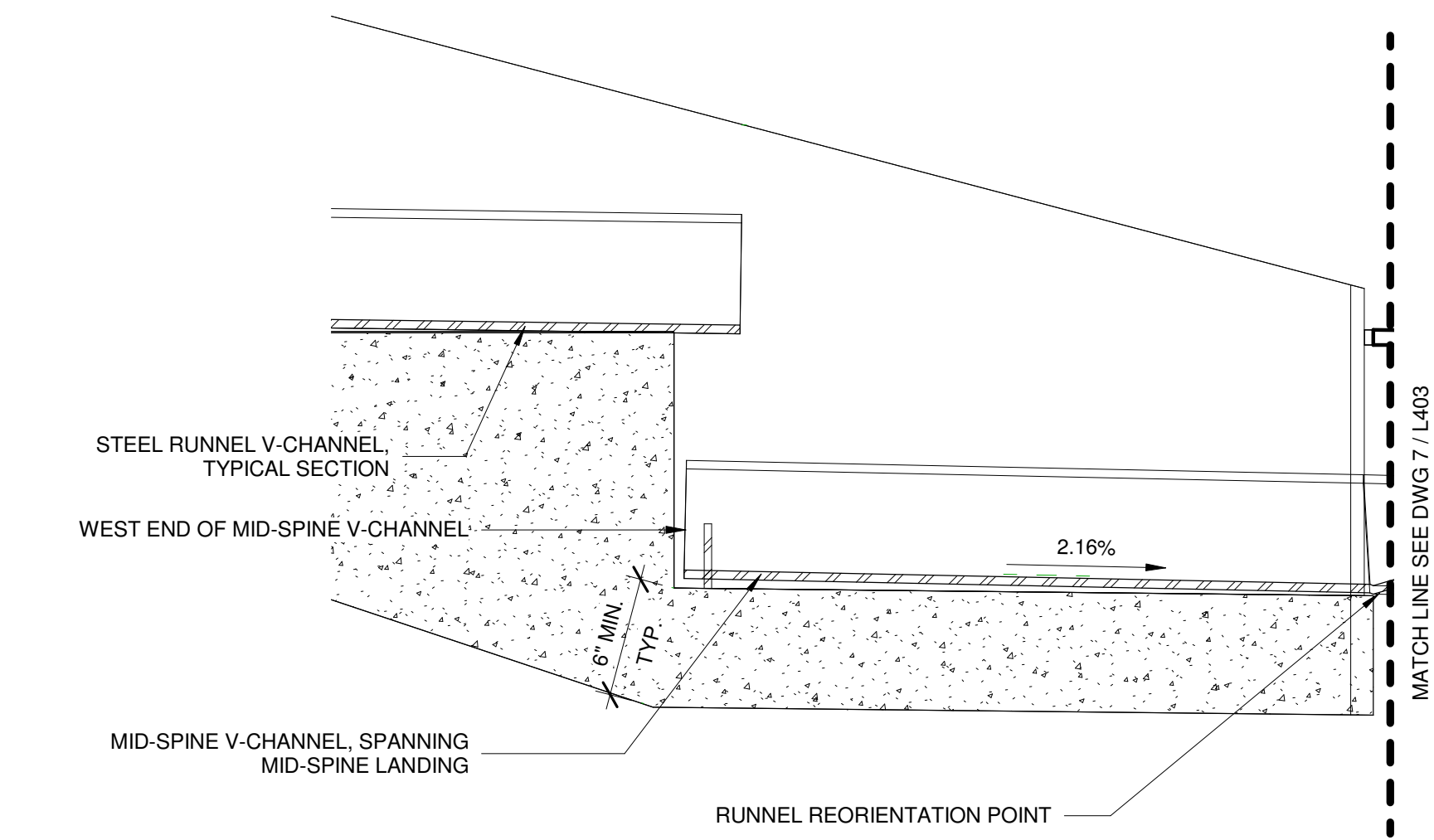
**1 RUNNEL - TYPICAL SECTION**  
1 1/2" = 1'-0"



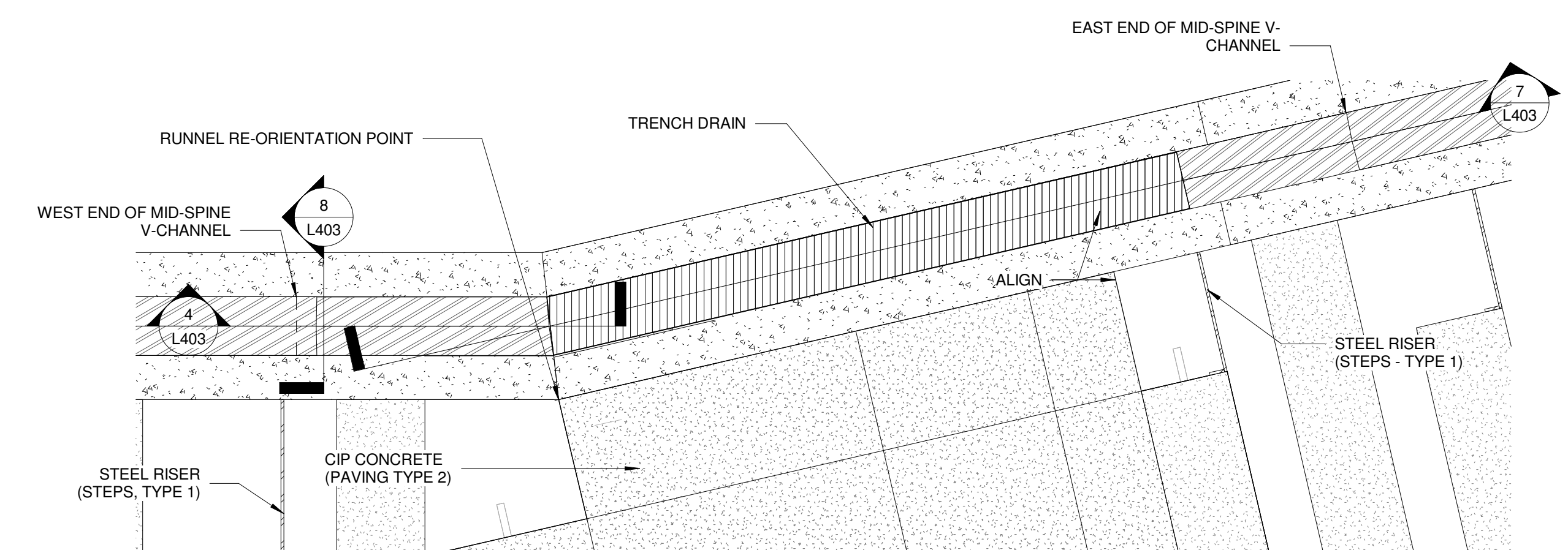
**2 RUNNEL CROSS SECTION**  
1 1/2" = 1'-0"



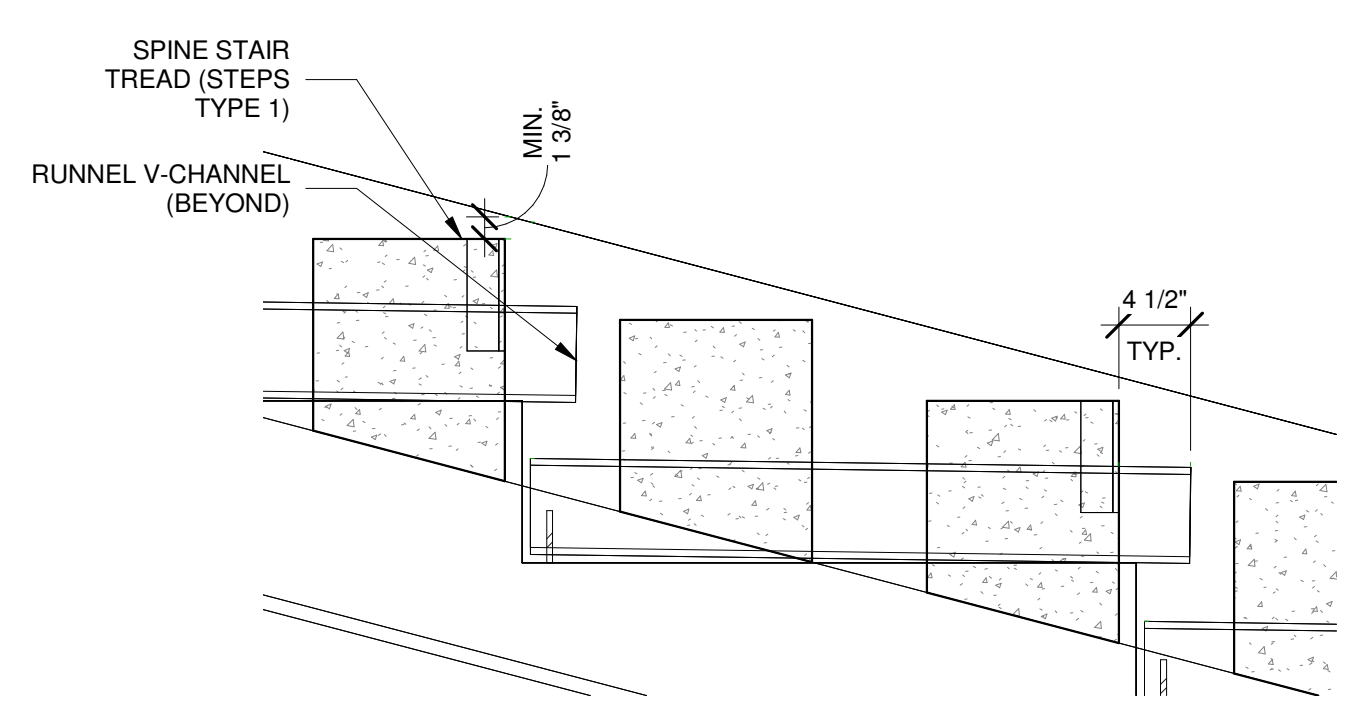
**3 CATCH BASIN TO RUNNEL SECTION**  
1 1/2" = 1'-0"



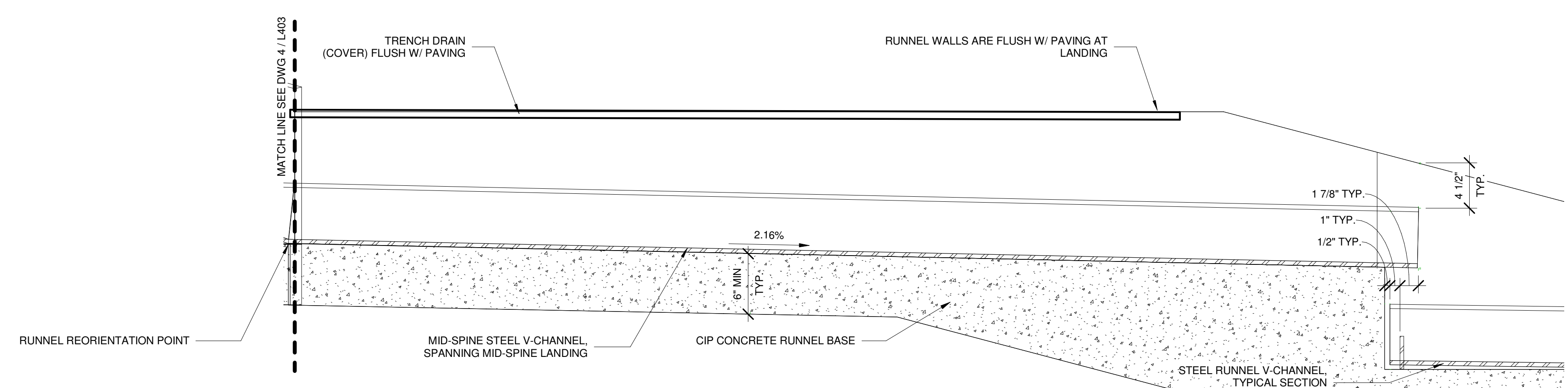
**4 RUNNEL AT MID-SPINE LANDING - WEST**  
1 1/2" = 1'-0"



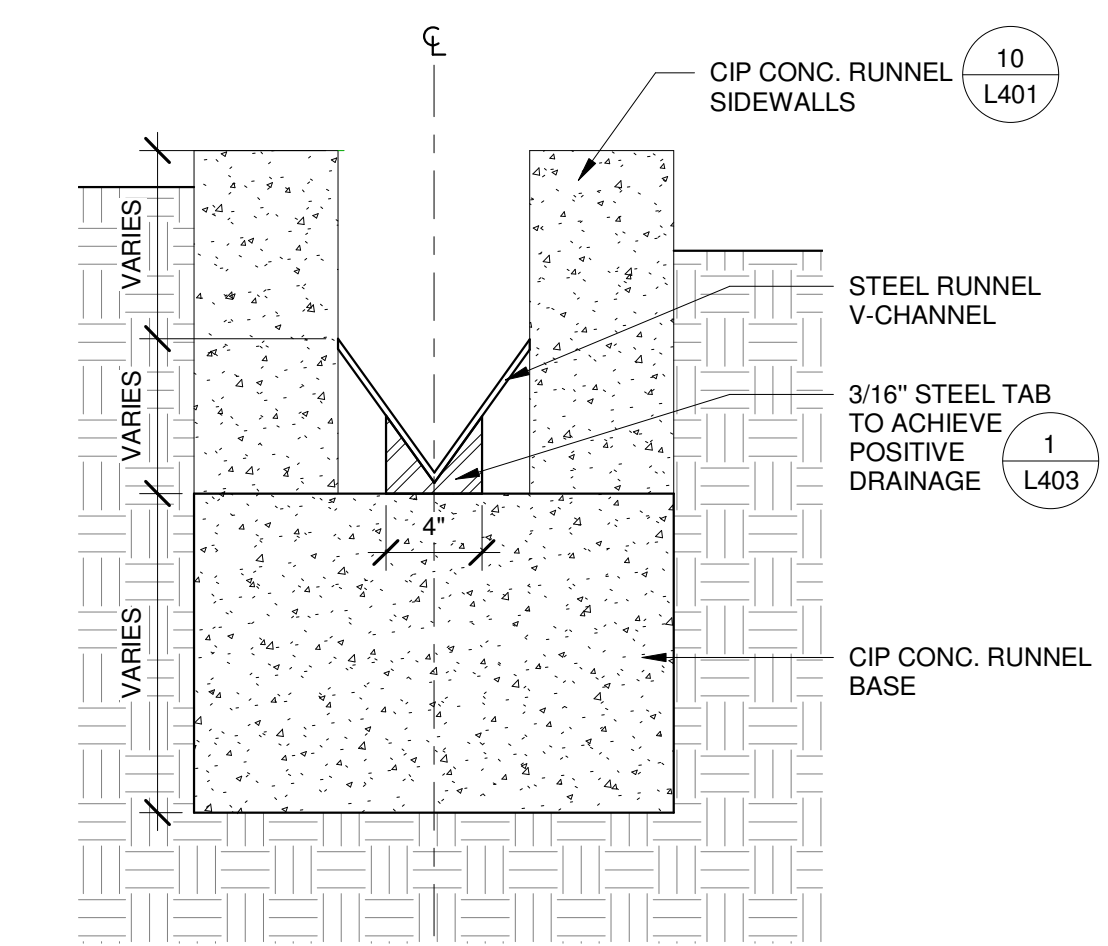
**5 RUNNEL AT MID-SPINE LANDING - REF PLAN**  
3/4" = 1'-0"



**6 RUNNEL / STAIR RELATIONSHIP**  
1" = 1'-0"



**7 RUNNEL AT MID-SPINE LANDING - EAST**  
1 1/2" = 1'-0"



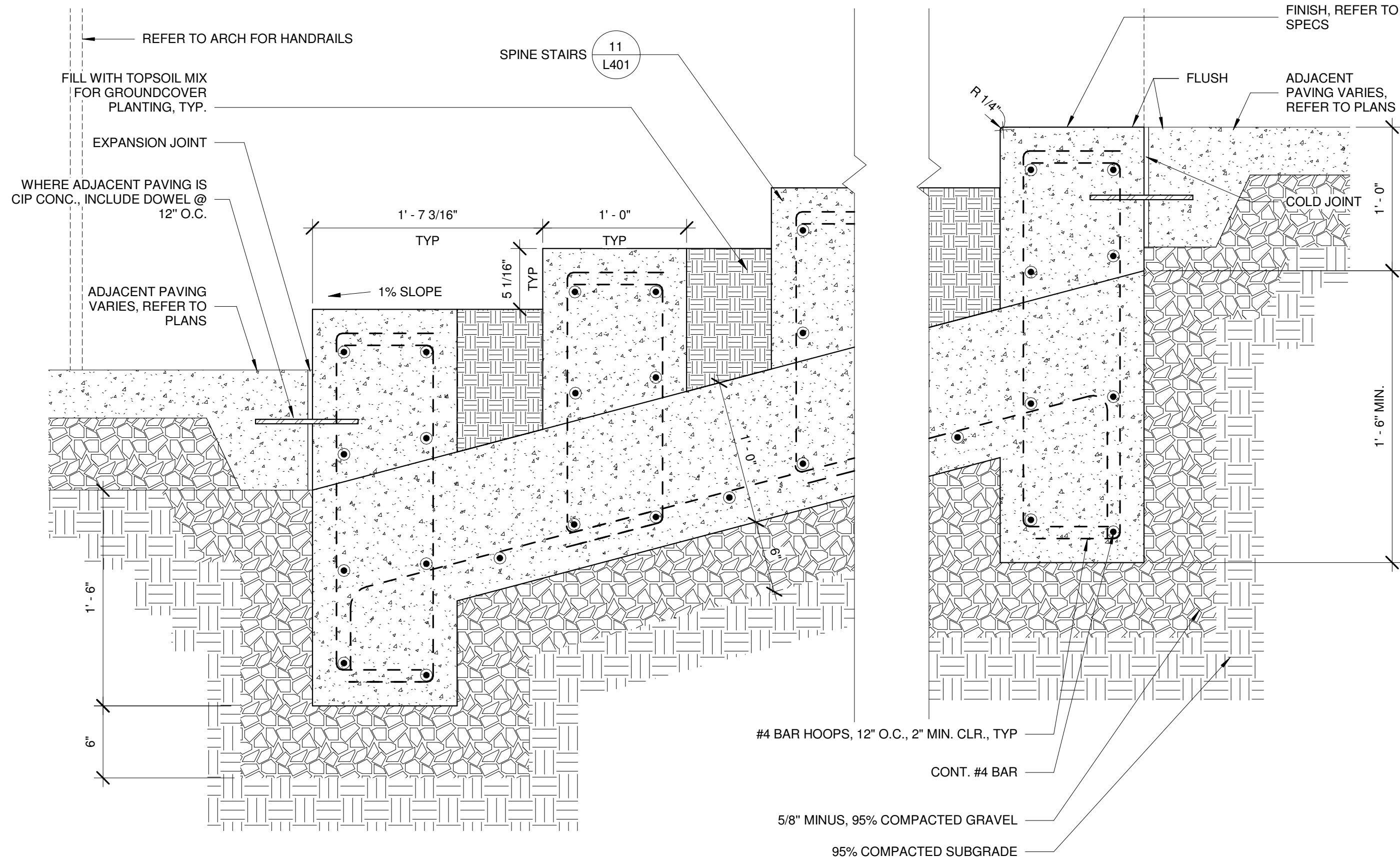
**8 V-CHANNEL AT TAB**  
1 1/2" = 1'-0"

No.	Description	Date

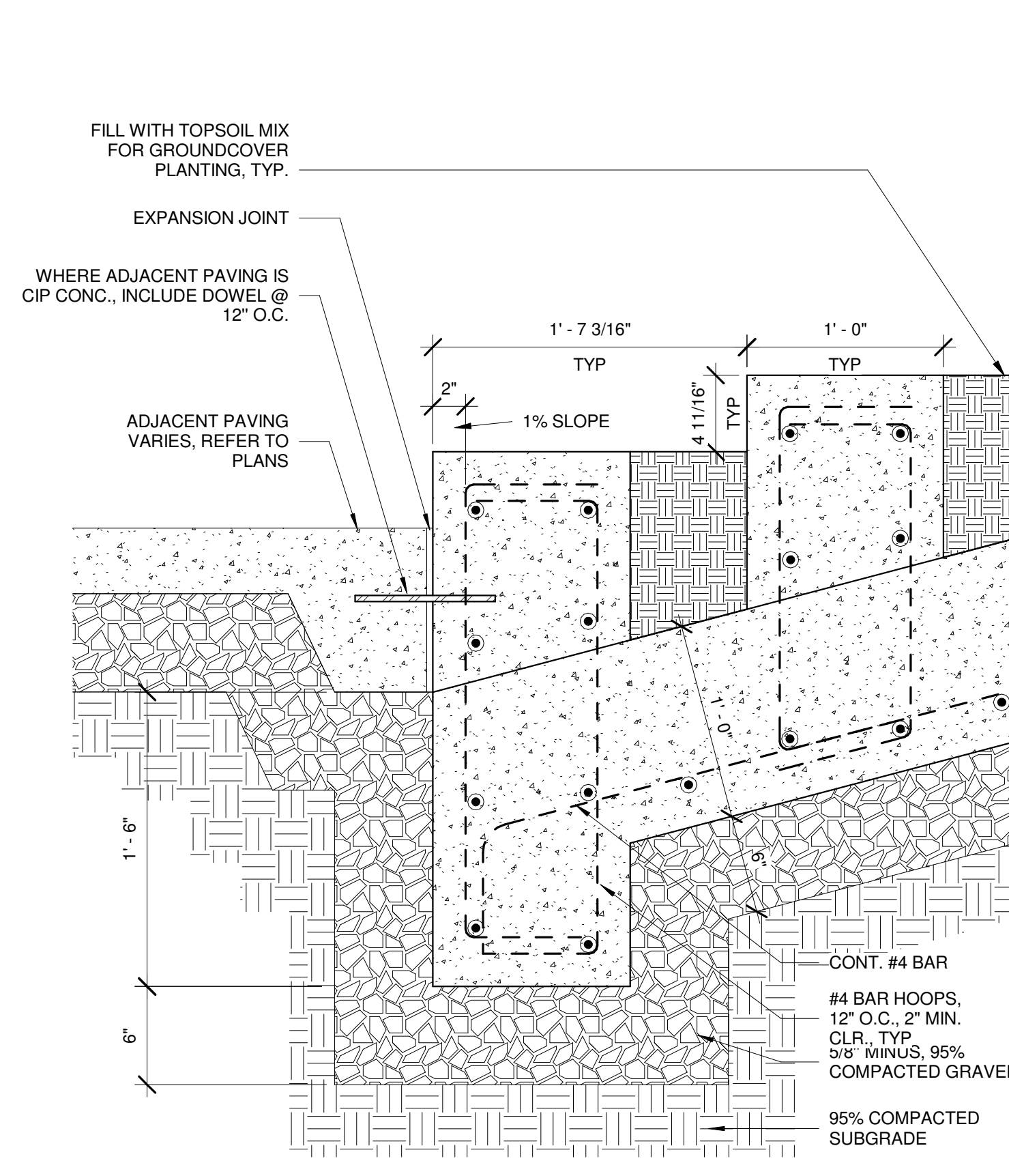
**SPINE GEN. NOTES:**  
(NOTES APPLY TO ALL DWGS ON THIS SHEET):

1. PROVIDE SHOP DRAWINGS FOR ALL METAL ASSEMBLIES SHOWING ALL MEMBERS, ATTACHMENTS, WELDS, FINISHES & COMPONENTS.
2. ALL METAL COMPONENTS OF THE SPINE STAIR AND RUNNEL, AND ANY METAL COMPONENTS TOUCHING IT - INCLUDING PORTAL PLANTER WALLS & LAKESIDE WALLS - SHALL BE STEEL WITH PAINTED FINISH UNLESS OTHERWISE NOTED, SEE SPECS.
3. ALL METAL COMPONENTS OF THE SPINE STAIR AND RUNNEL AND ANY METAL COMPONENTS TOUCHING IT - INCLUDING PORTAL WALLS & LAKESIDE WALLS - SHALL BE 3/8" THICK, UNLESS OTHERWISE NOTED AND EXCEPT FOR THE STEEL RUNNEL V-CHANNEL & TAB, SEE SPECS. STEEL RUNNEL V-CHANNEL & TAB SHALL BE 3/16" THICK.
4. WELD ALL METAL COMPONENTS OF SPINE TOGETHER. GRIND ALL WELDS SMOOTH; PROVIDE EASE EDGE ON ANY EXPOSED EDGES (NO SHARP EDGES).
5. ALL V-CHANNELS LOCATIONS MUST MEET MINIMUM SECTION REQUIREMENTS (SEE 10/L401) FOR STORMWATER CAPACITY AND SPECIFIED SLOPES FOR POSITIVE DRAINAGE.

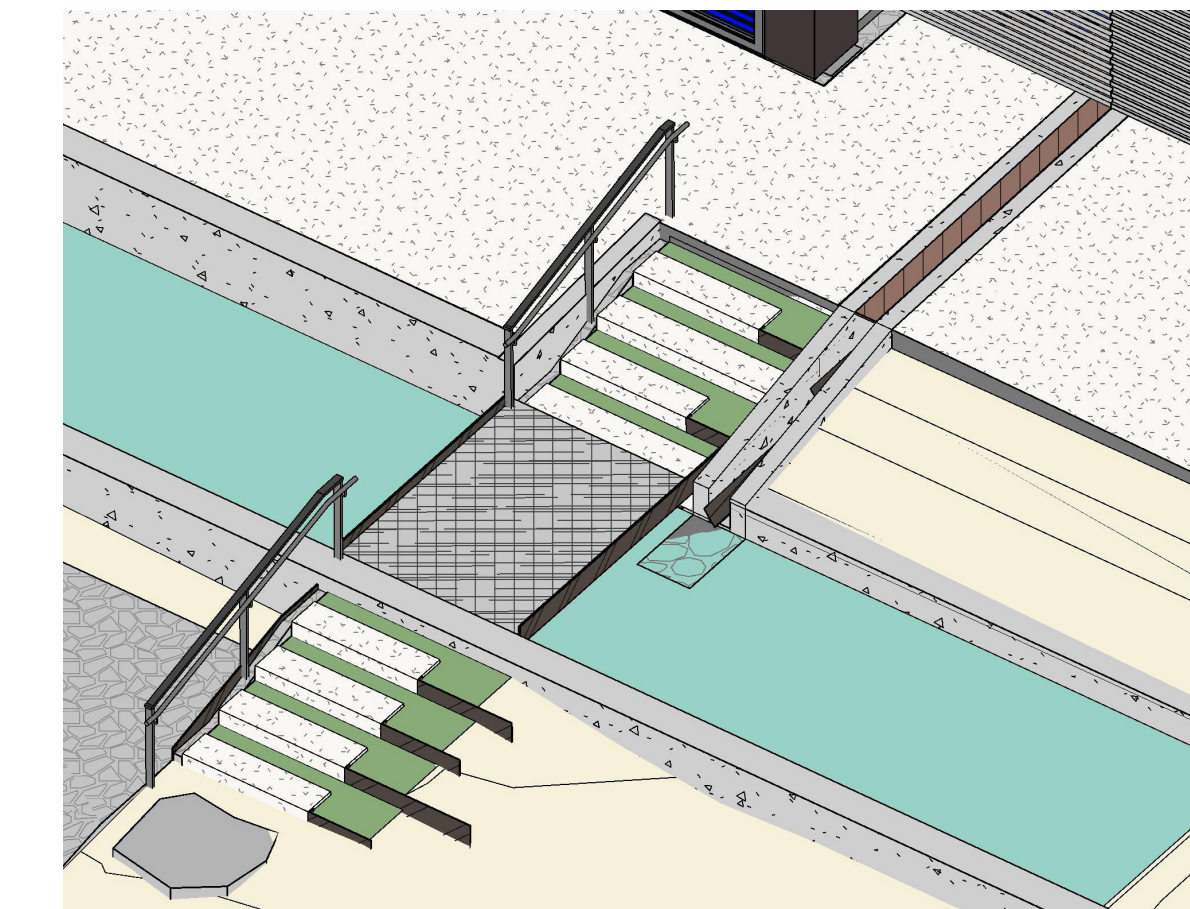
**STAIRS NOTES:**  
REFER TO : 2/L404



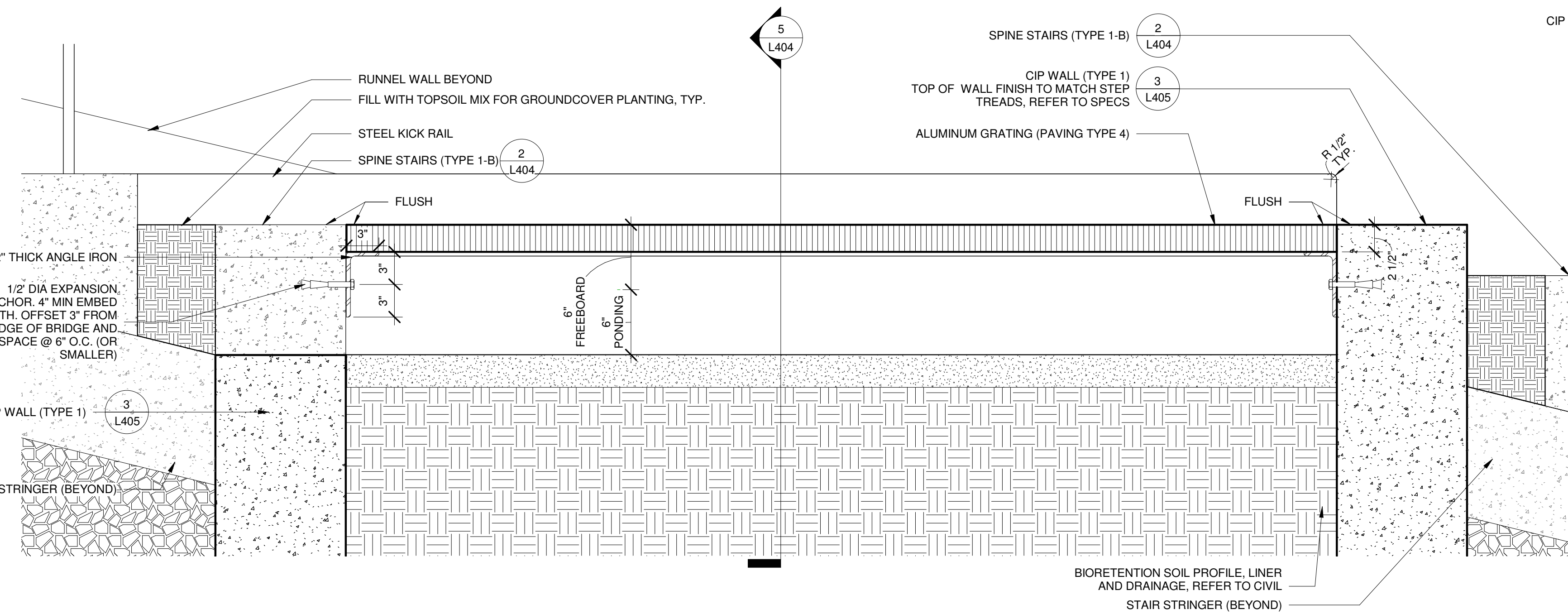
1 SPINE STAIRS (STEPS TYPE 1)  
1 1/2" = 1'-0"



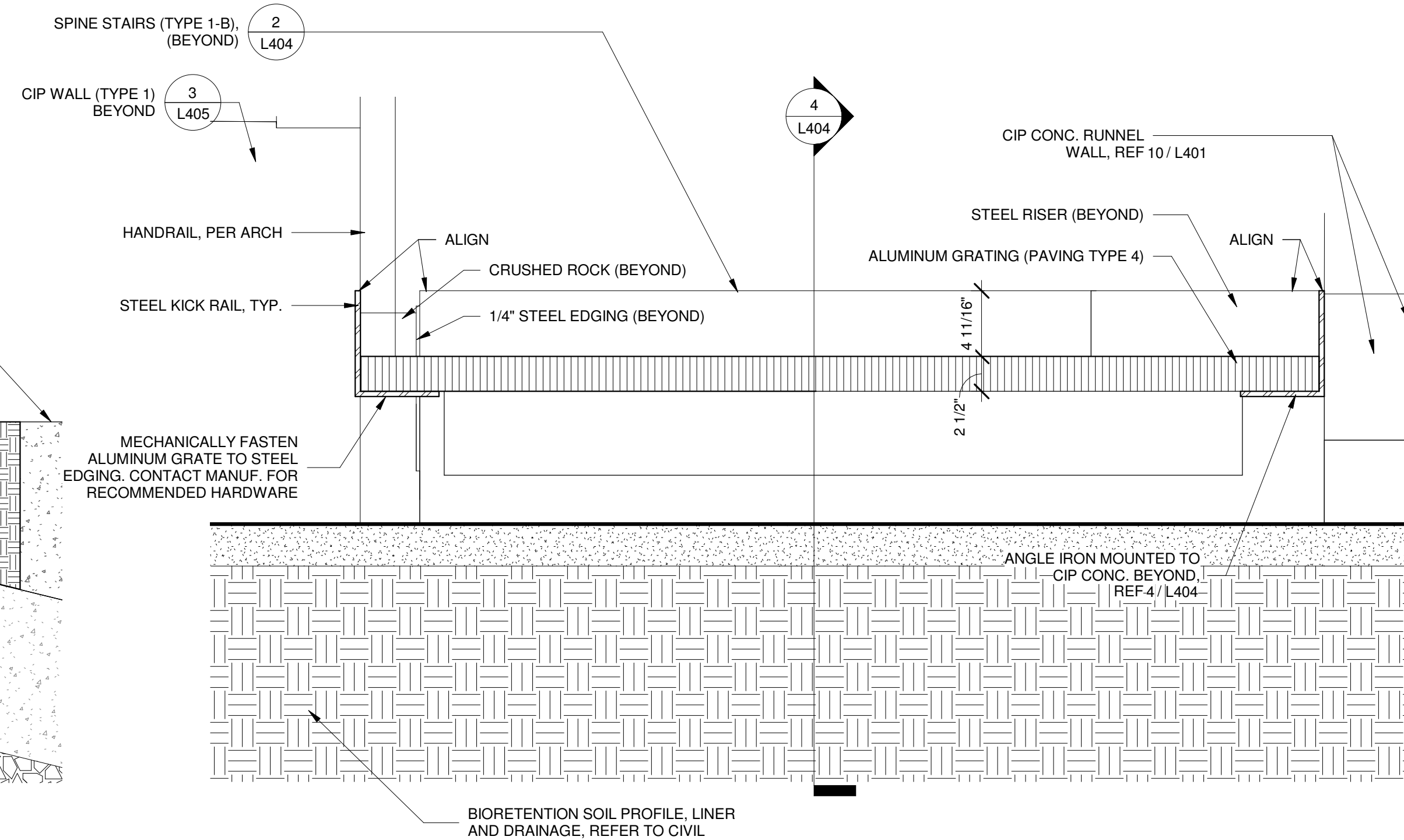
2 SPINE STAIRS (STEPS TYPE 1-B)  
1 1/2" = 1'-0"



3 BRIDGE LAKESIDE AREA (FOR REF ONLY)  
1 1/2" = 1'-0"

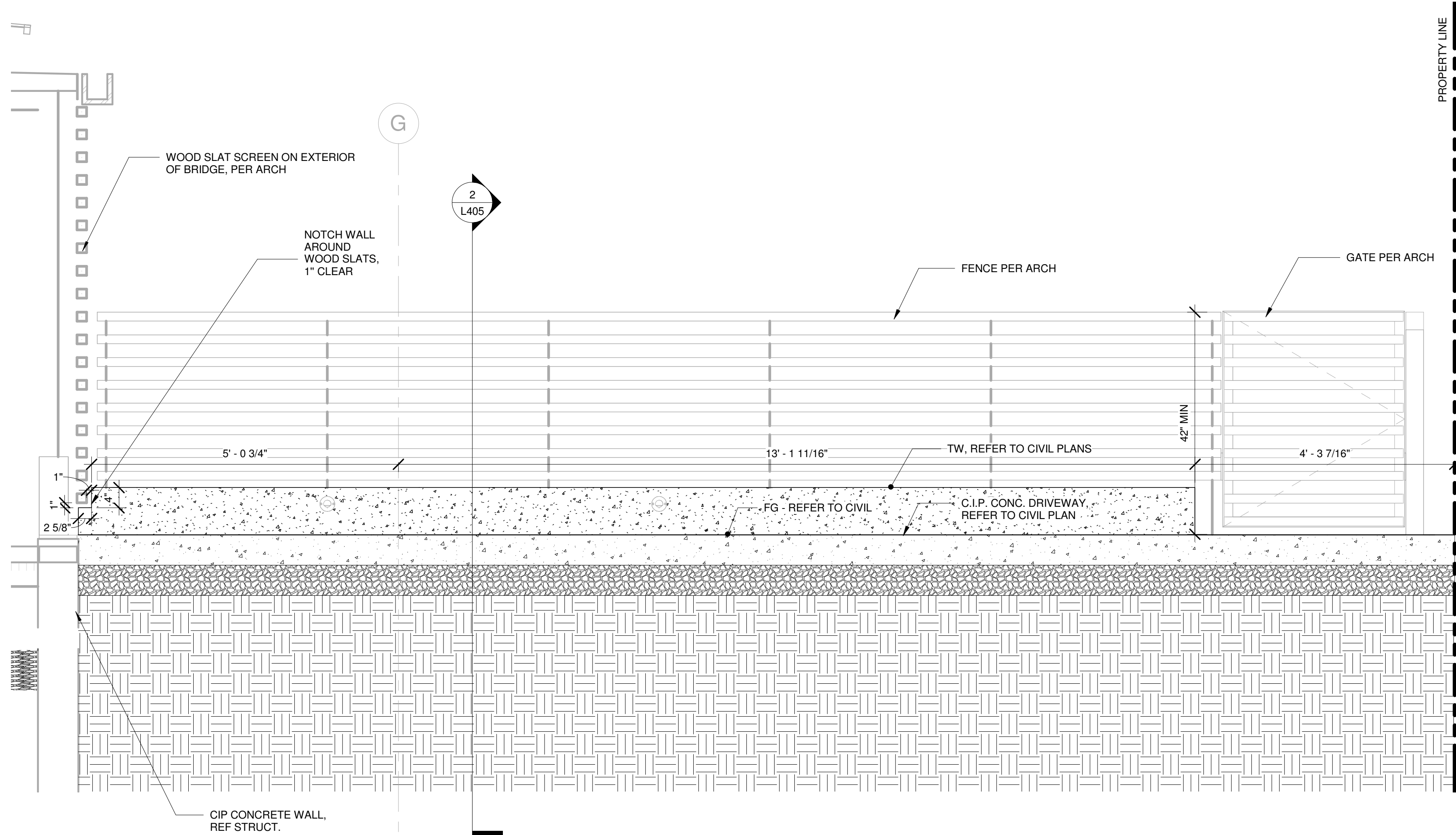


4 BRIDGE OVER BIORETENTION (FACING NORTH)  
1 1/2" = 1'-0"

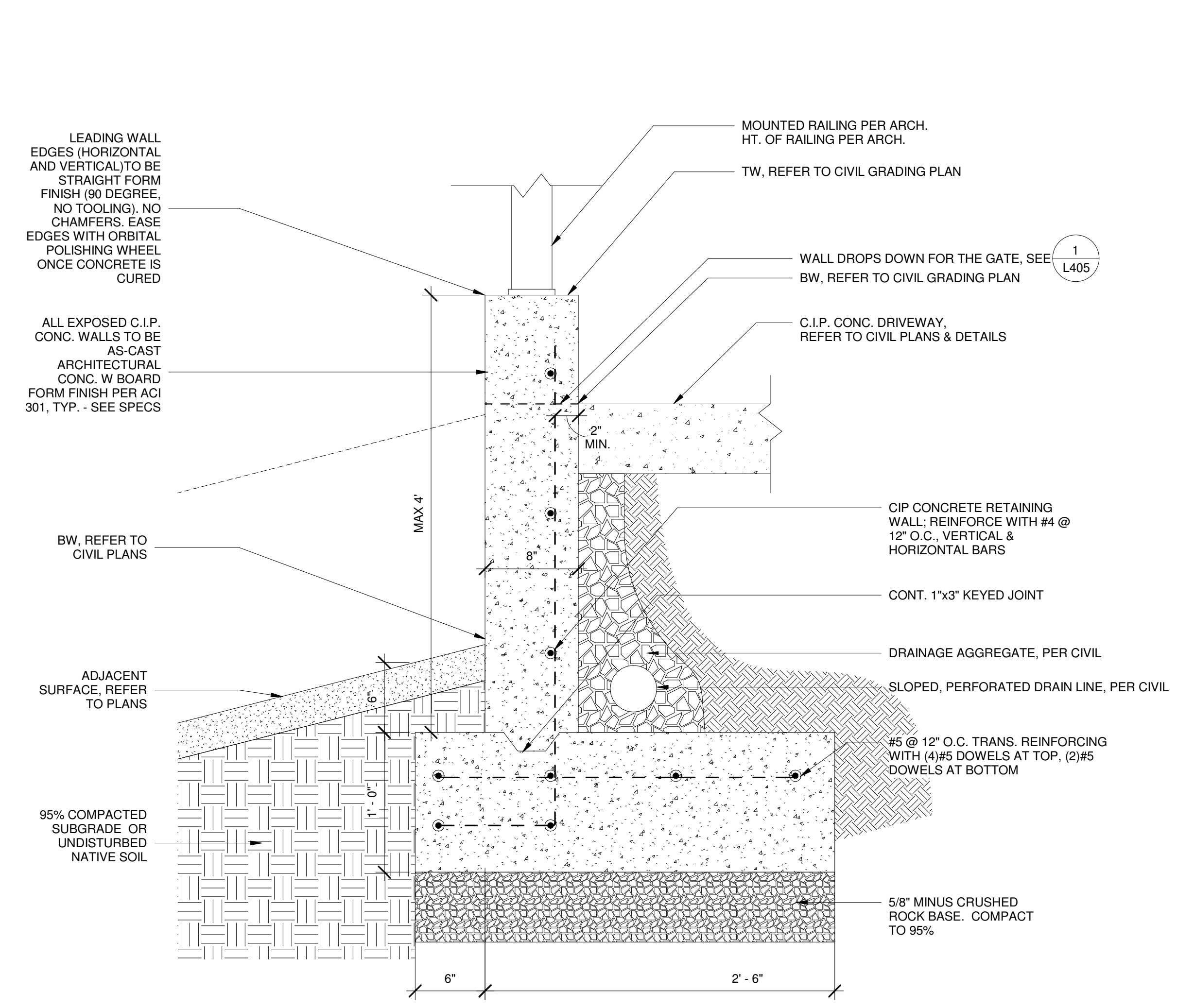


5 BRIDGE OVER BIORETENTION (FACING WEST)  
1 1/2" = 1'-0"

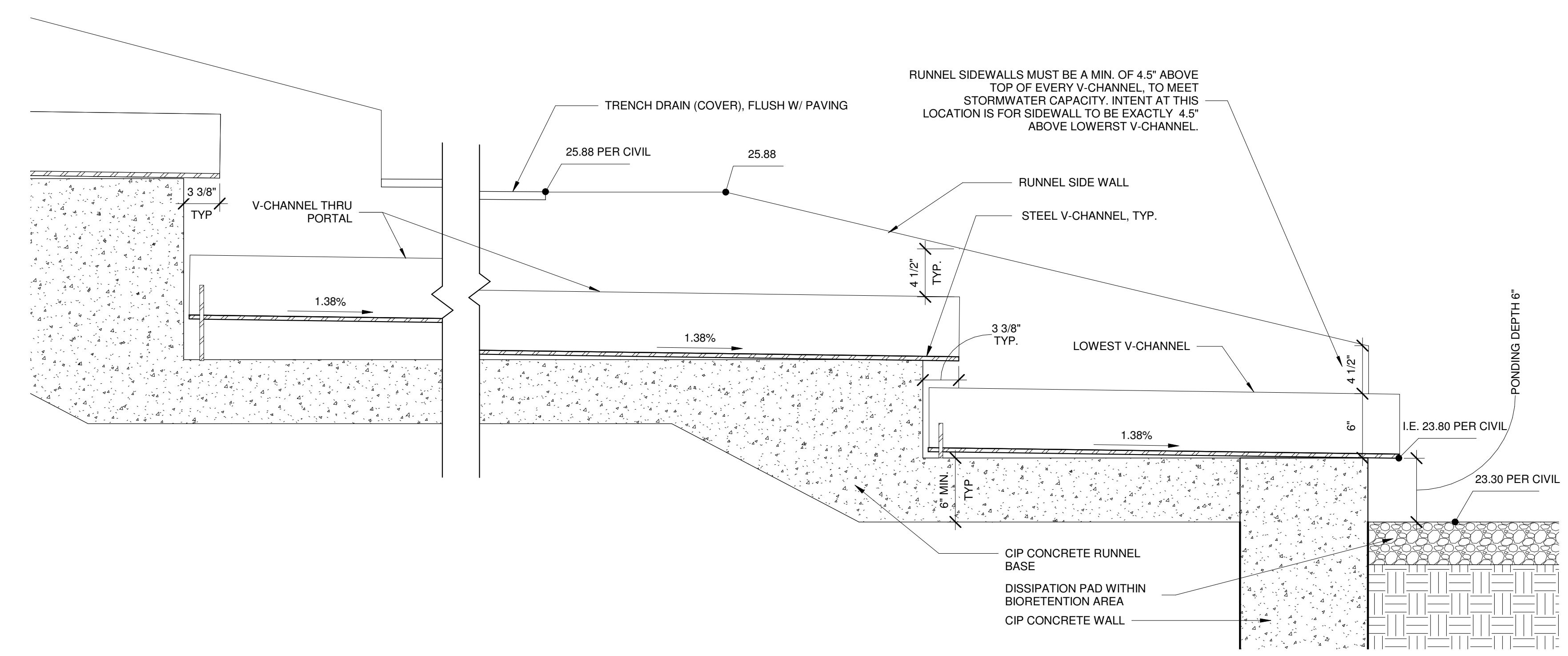
REVISIONS	No.	Description	Date



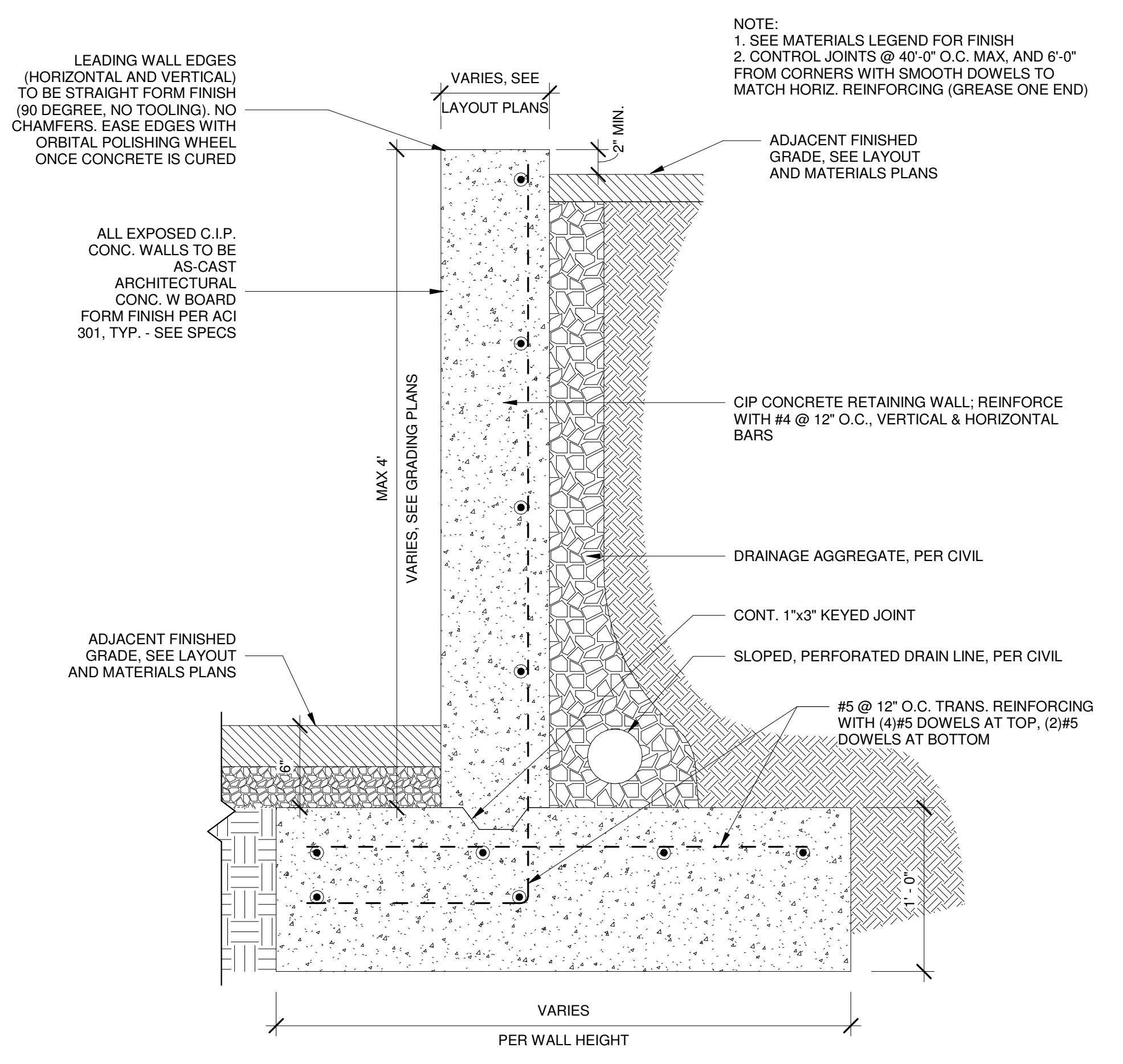
**1** DRIVEWAY SITE WALL (TYPE 1) - SECTION ELEVATION  
3/4" = 1'-0"



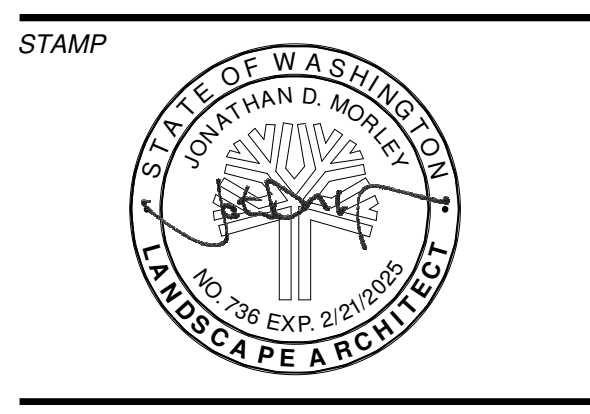
**2** DRIVEWAY SITE WALL (TYPE 1) - CROSS SECTION  
1 1/2" = 1'-0"



**4** RUNNEL, PORTAL TO BIORETENTION  
1 1/2" = 1'-0"



**3** CIP CONC. RETAINING WALL (TYPE 1)  
1 1/2" = 1'-0"

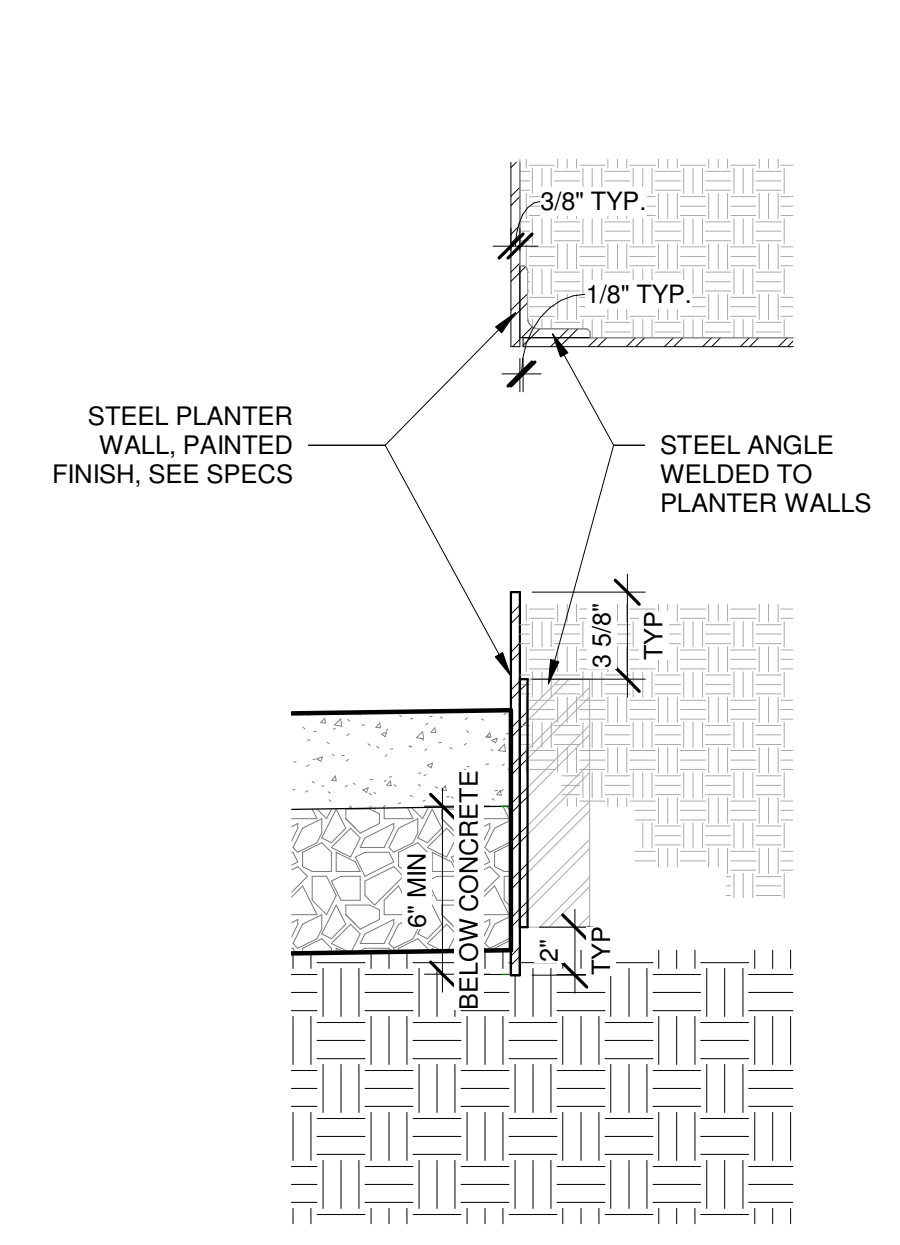


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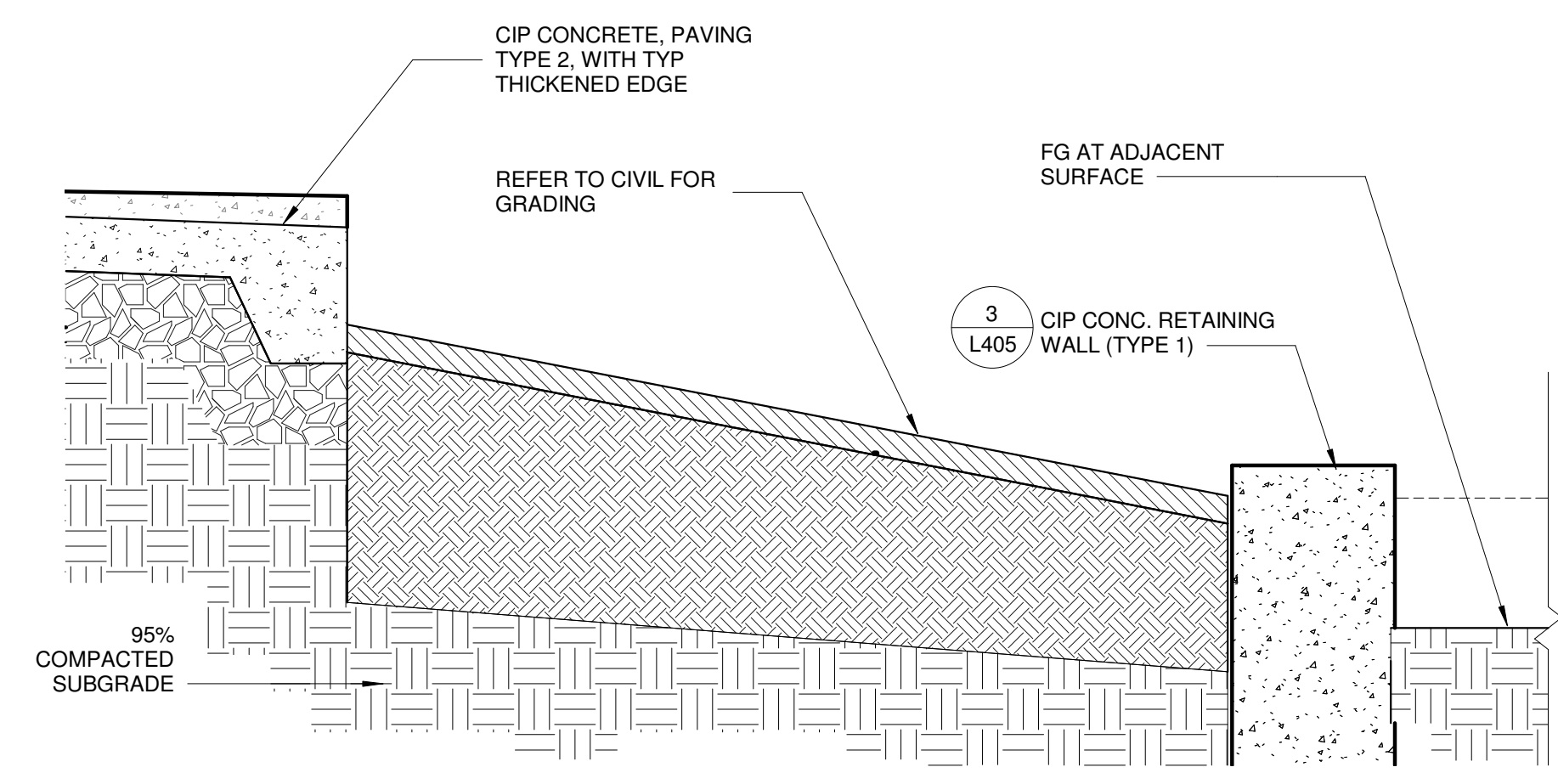
No.	Description	Date

**LAKESIDE WALL GEN. NOTES:**  
 (NOTES APPLY TO ALL DWGS ON THIS SHEET):

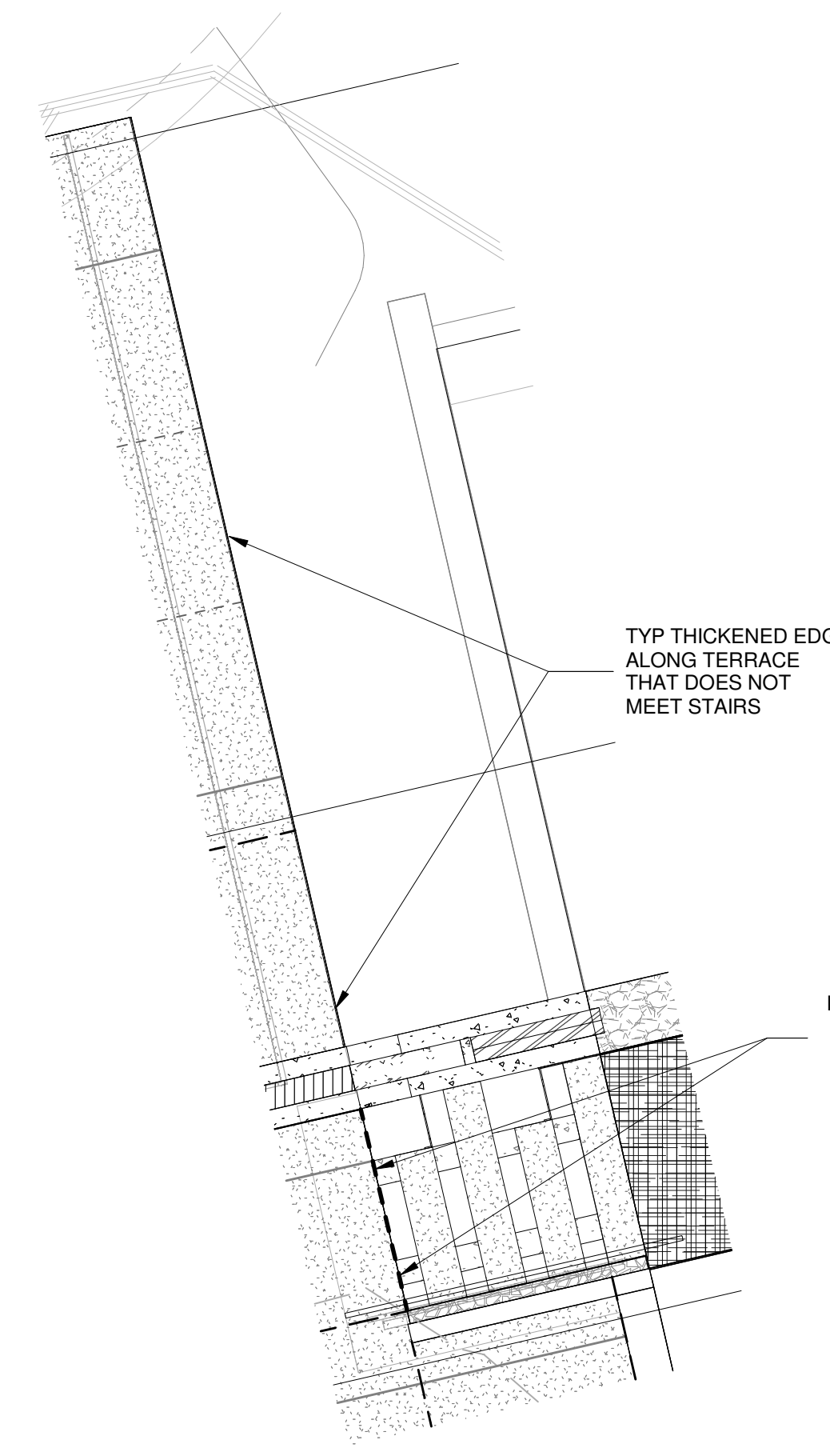
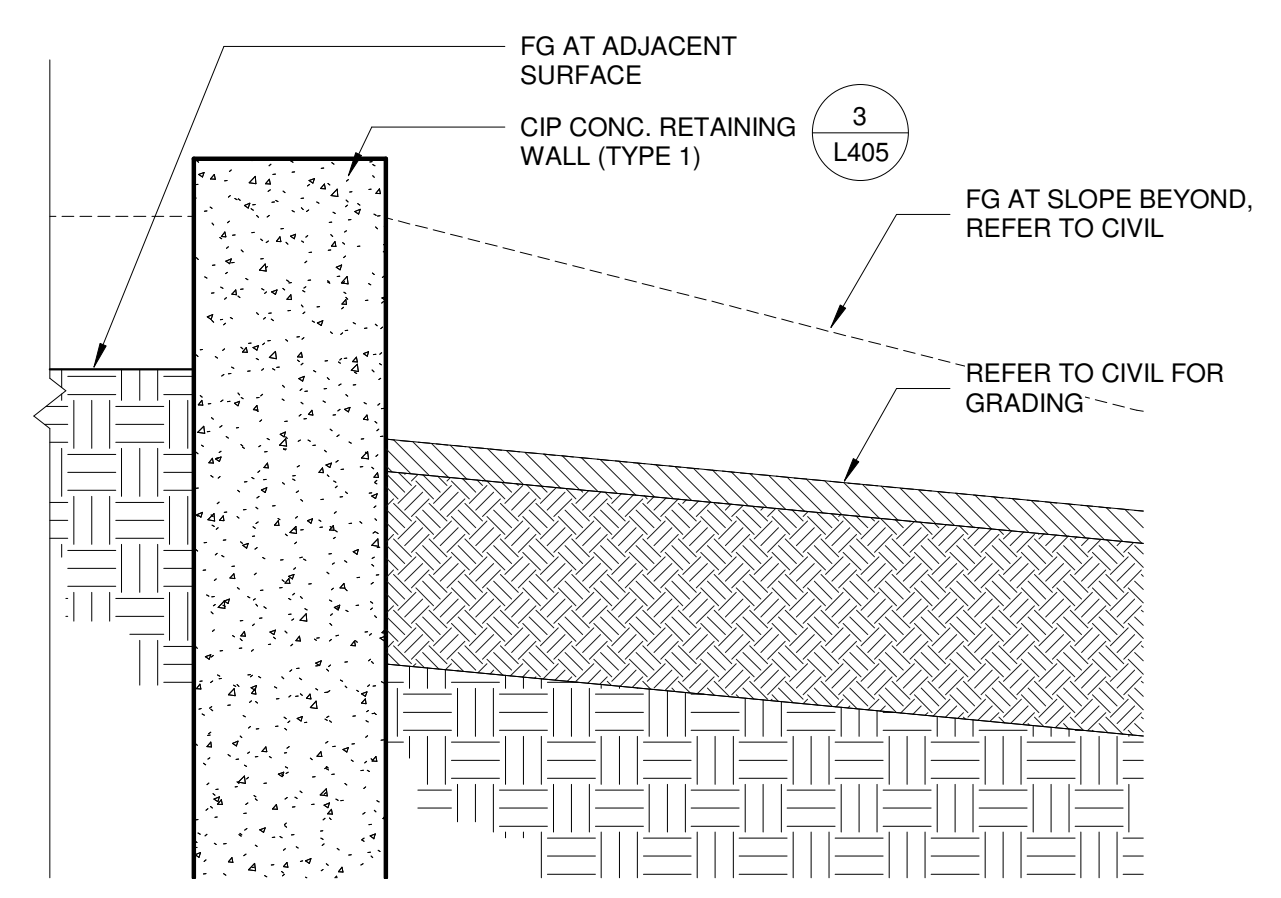
1. PROVIDE SHOP DRAWINGS FOR ALL METAL ASSEMBLIES SHOWING ALL MEMBERS, ATTACHMENTS, WELDS, FINISHES & COMPONENTS.
2. ALL METAL COMPONENTS OF THE SPINE STAIR AND RUNNEL, AND ANY METAL COMPONENTS TOUCHING IT - INCLUDING PORTAL PLANTER WALLS & LAKESIDE WALLS - SHALL BE STEEL WITH PAINTED FINISH, SEE SPECS.
3. ALL METAL COMPONENTS OF THE SPINE STAIR AND RUNNEL AND ANY METAL COMPONENTS TOUCHING IT - INCLUDING PORTAL PLANTER WALLS & LAKESIDE WALLS - SHALL BE 3/8" THICK, UNLESS OTHERWISE NOTED AND EXCEPT FOR THE STEEL RUNNEL V-CHANNEL & TAB.
4. WELD ALL METAL COMPONENTS TOGETHER, GRIND ALL WELDS SMOOTH; PROVIDE EASE EDGE ON ANY EXPOSED EDGES (NO SHARP EDGES).



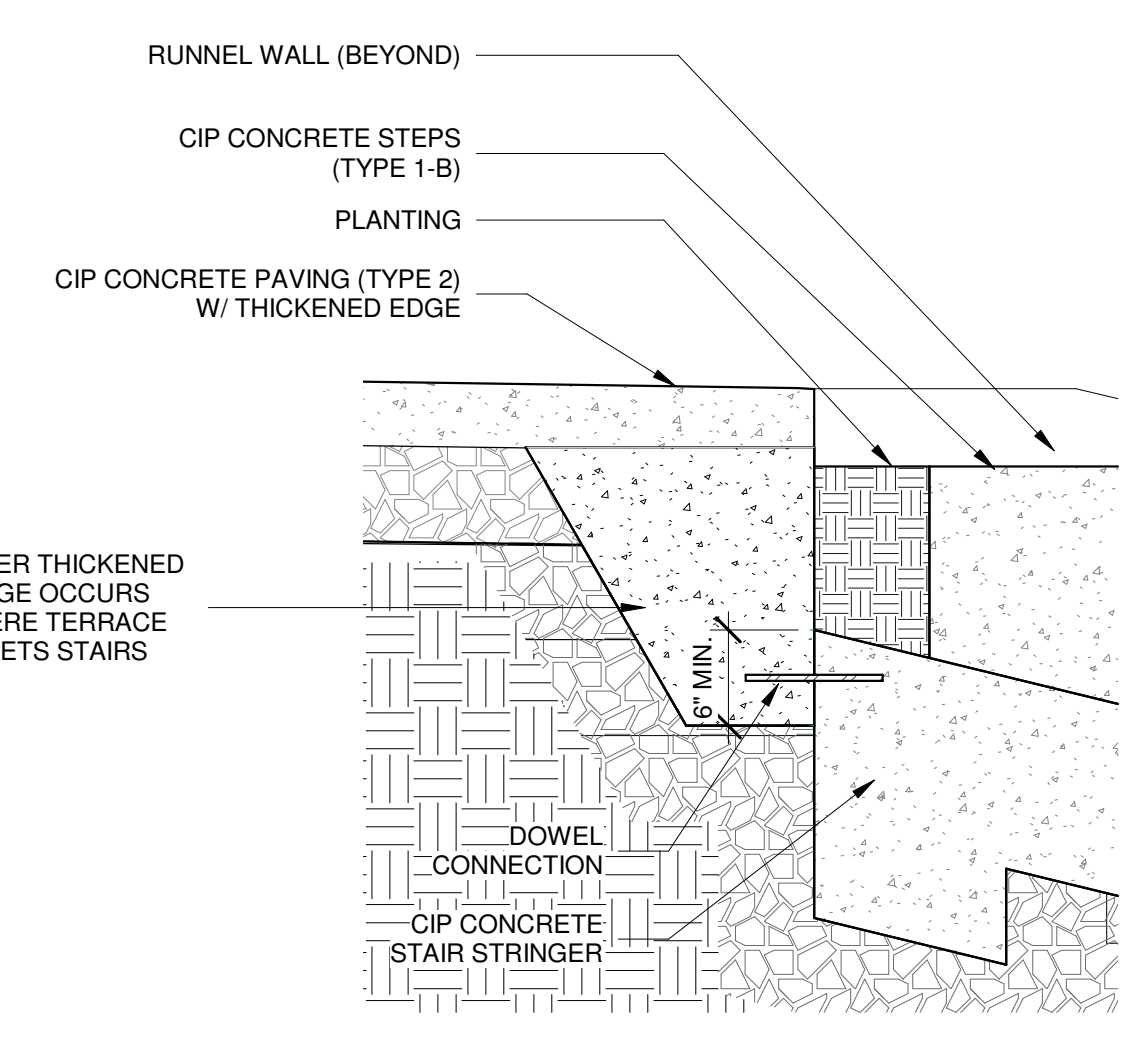
**1 STEEL PORTAL PLANTER WALLS (TYPE 3) AT PAVING**  
 1 1/2" = 1'-0"



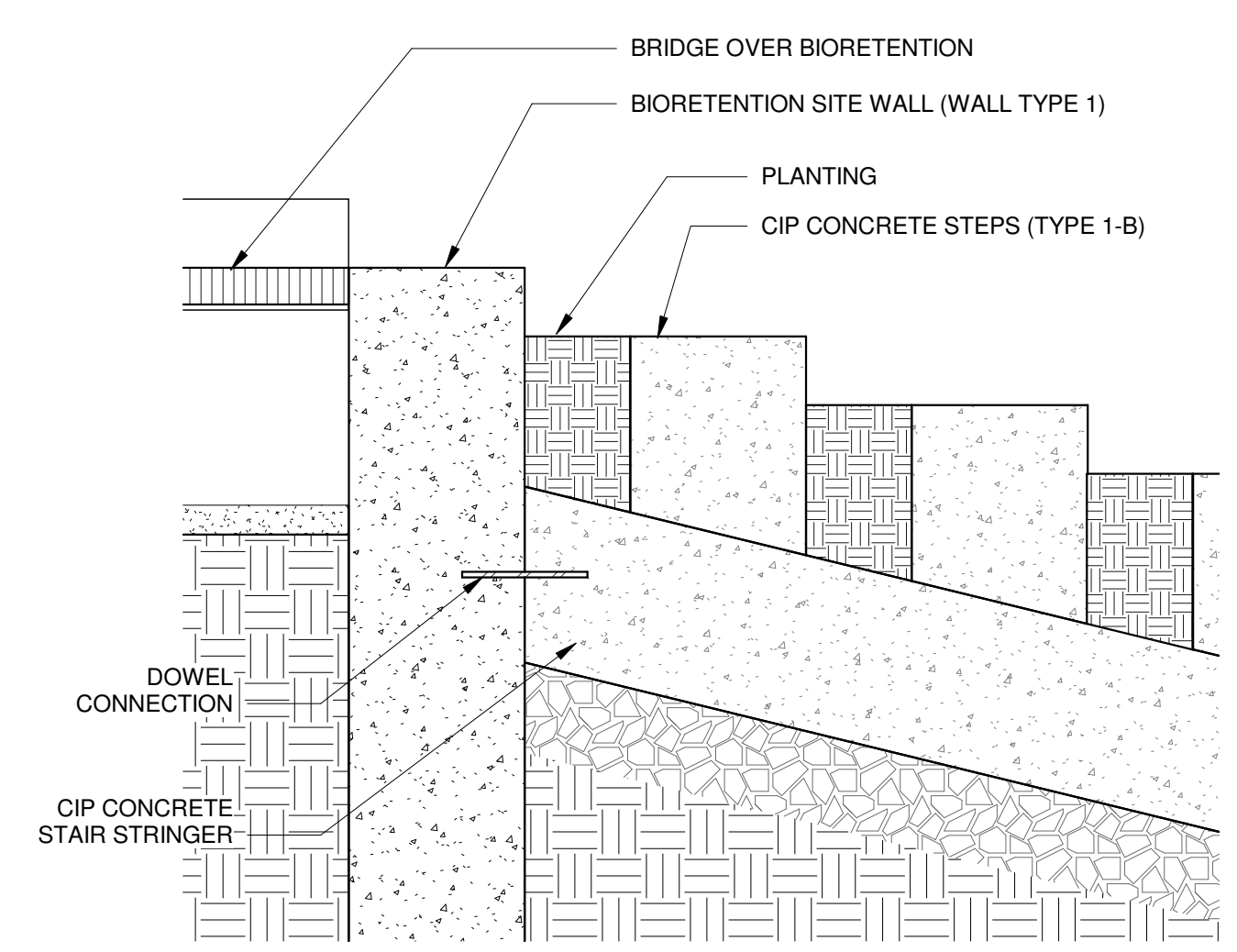
**2 LAKESIDE WALLS SECTION**  
 1" = 1'-0"



**5 LAKESIDE TERRACE TO STAIRS PLAN VIEW**  
 1/4" = 1'-0"



**3 UPPER LAKESIDE STAIR TO TERRACE**  
 1" = 1'-0"



**4 LOWER LAKESIDE STAIR TO BIORETENTION WALL**  
 1" = 1'-0"

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**SITE DETAILS L406**



**ECA WALL JOINTING LEGEND**

SCORE JOINT  
FOR JOINTING DETAILS, REF 8 / L401

**GRADING LEGEND:**

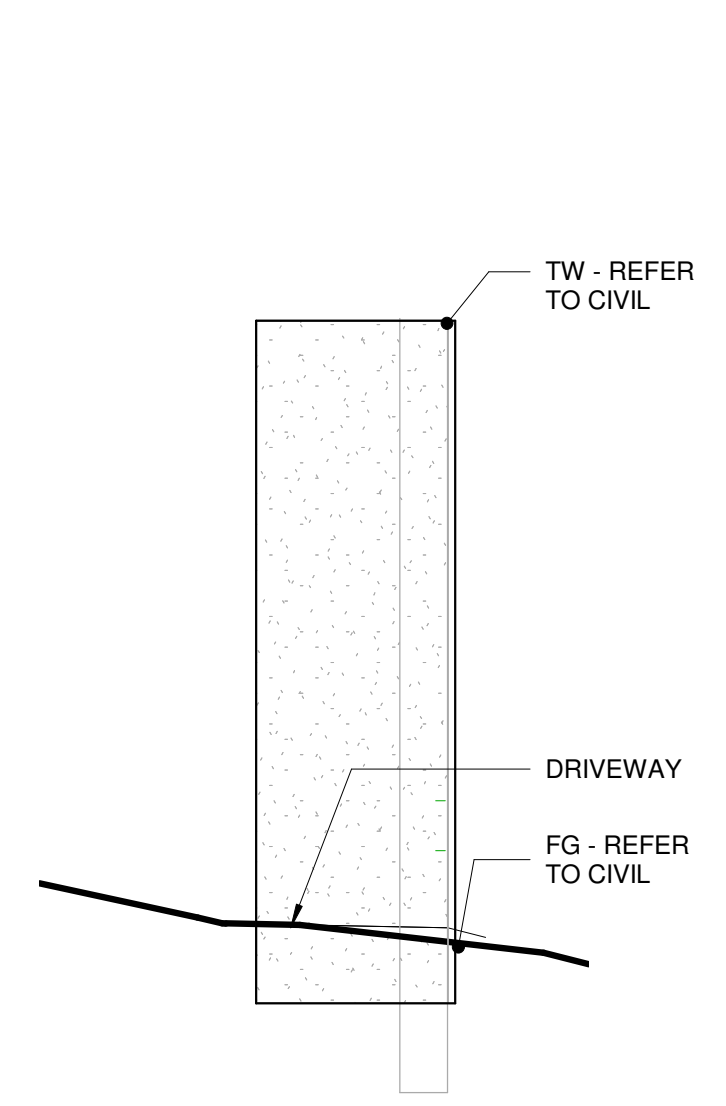
FG FINISH GRADE  
TW TOP OF WALL



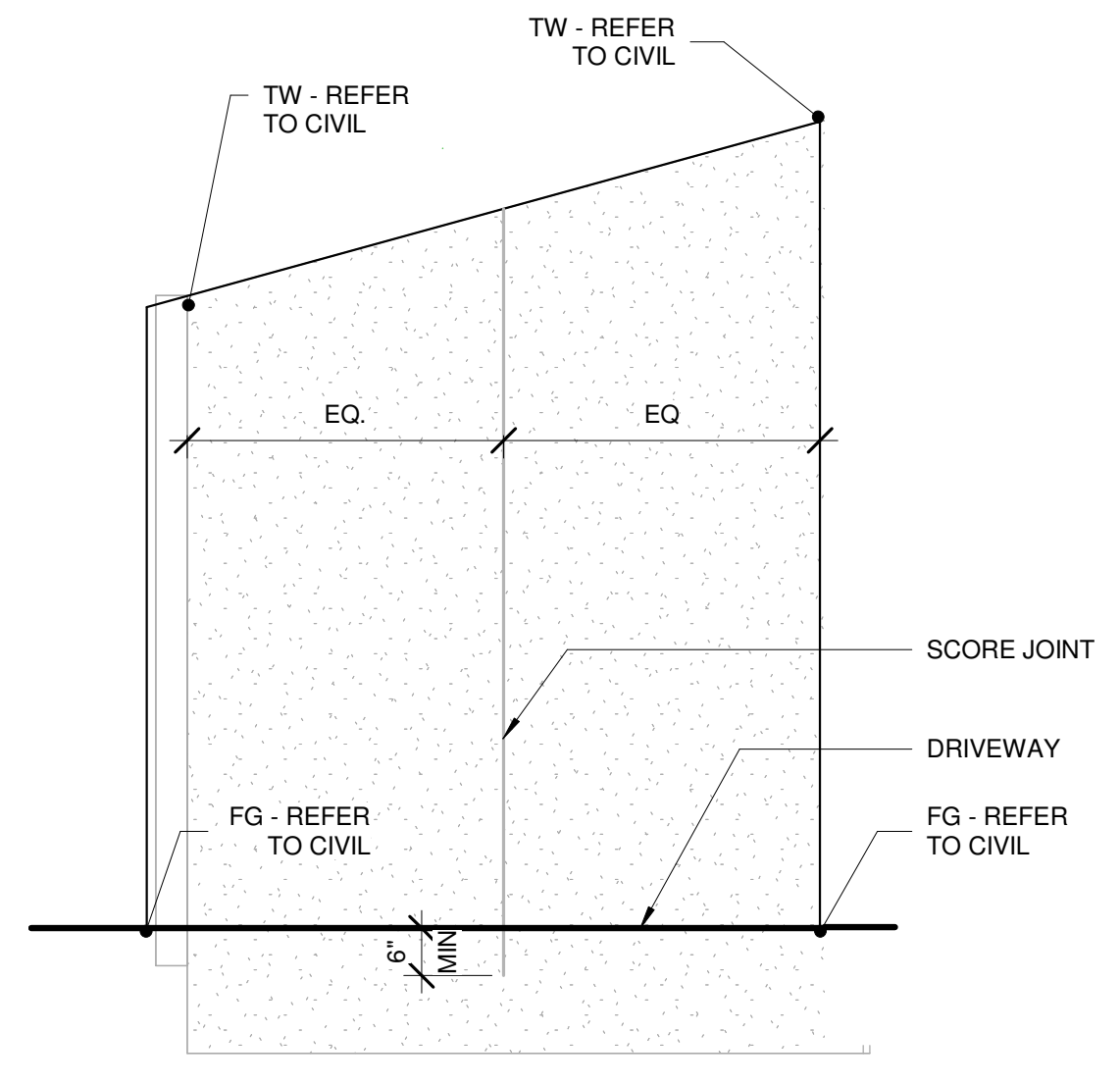
The Miller Hull Partnership, LLP  
Architecture and Planning  
Polson Building  
71 Columbia, Sixth Floor  
Seattle, WA 98104  
Phone: 206.682.6837  
Contact: Name



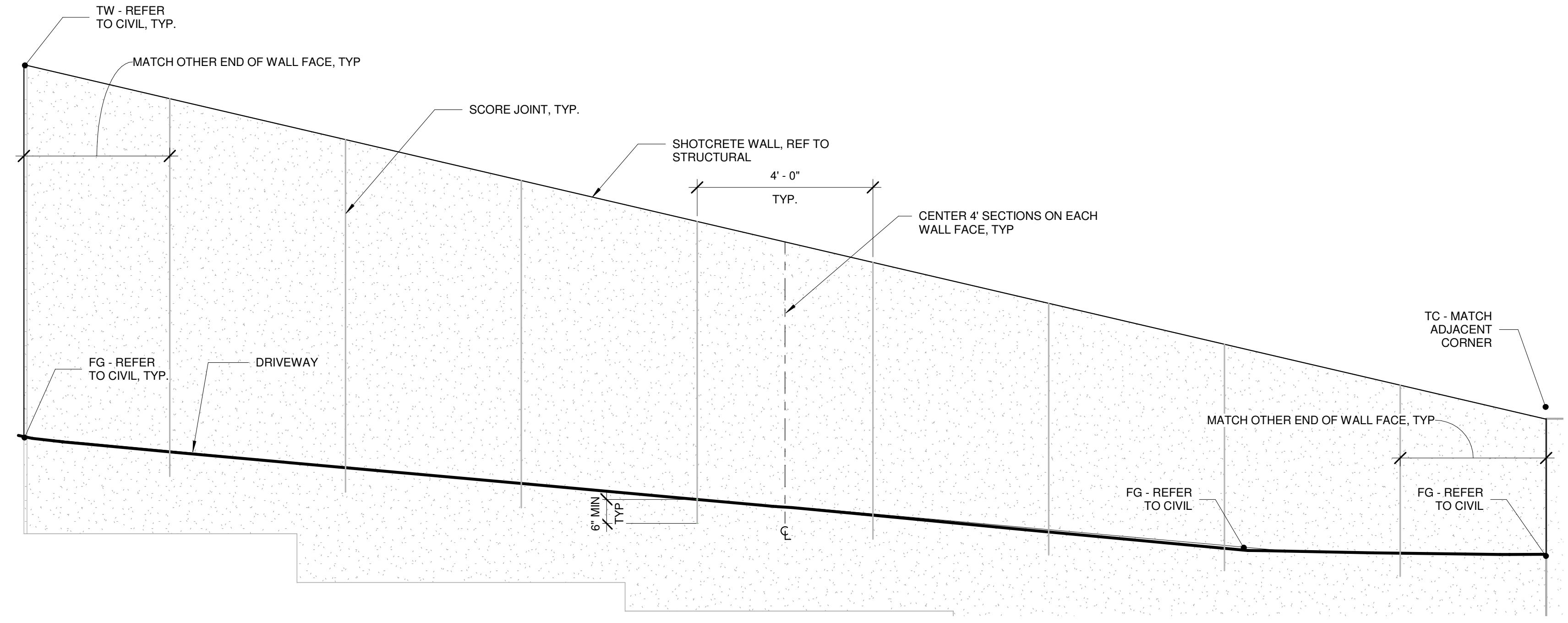
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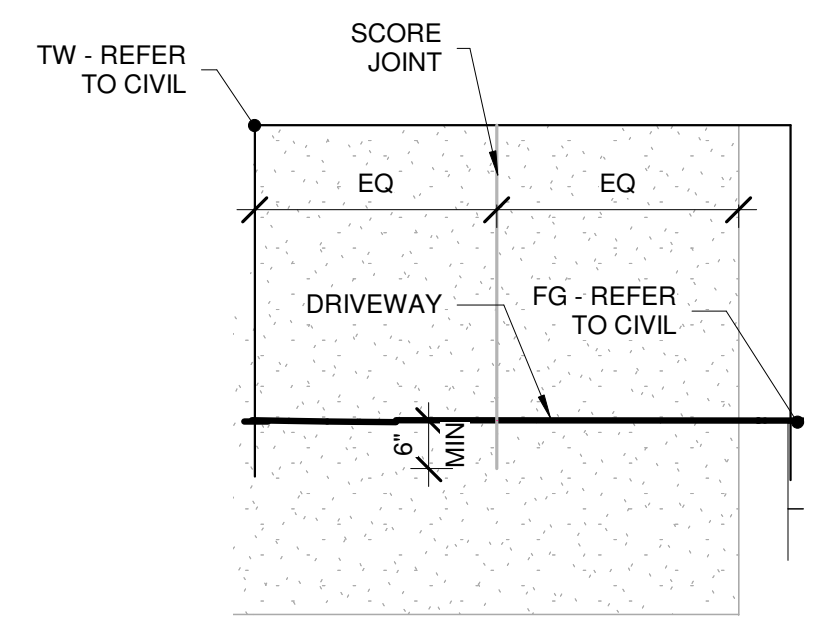
1 SEC-ELEV-A JOINT.  
1/2" = 1'-0"



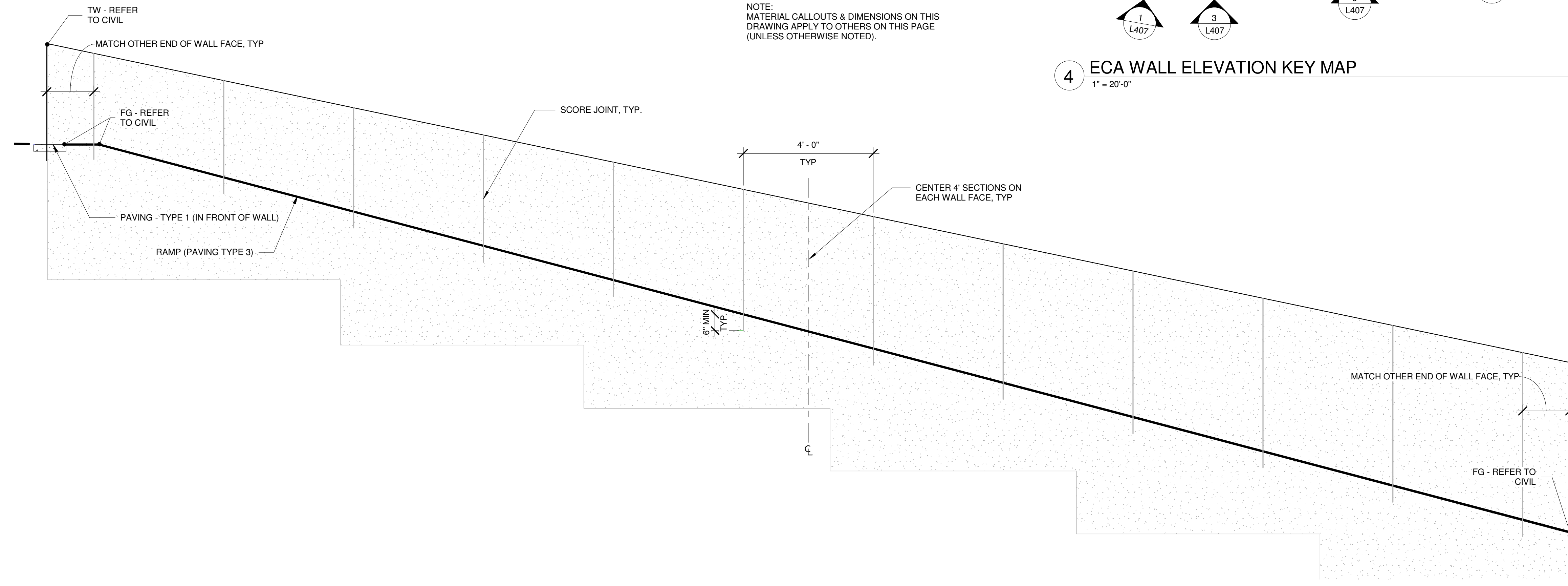
2 ECA SITE WALL-B JOINTING  
1/2" = 1'-0"



3 ECA SITE WALL-C JOINTING  
1/2" = 1'-0"

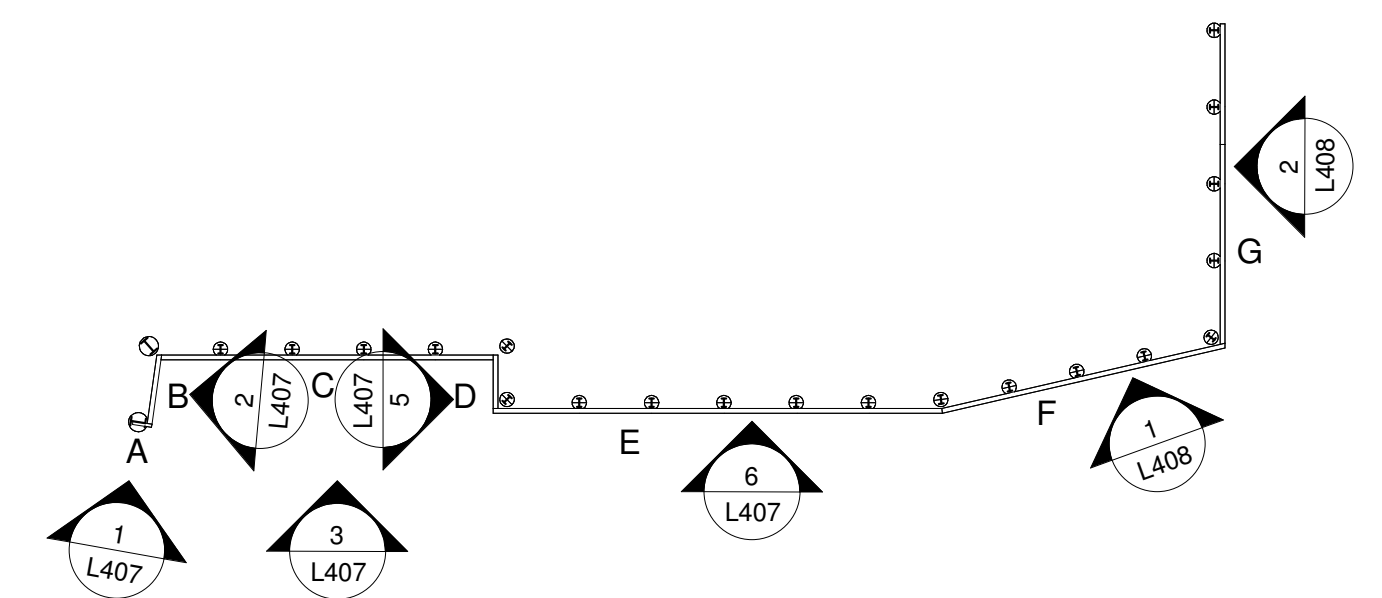


5 SEC-ELEV-D JOINT.  
1/2" = 1'-0"



6 ECA SITE WALL-E JOINTING  
1/2" = 1'-0"

NOTE:  
MATERIAL CALLOUTS & DIMENSIONS ON THIS  
DRAWING APPLY TO OTHERS ON THIS PAGE  
(UNLESS OTHERWISE NOTED).



4 ECA WALL ELEVATION KEY MAP  
1" = 20'-0"

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**SITE DETAILS - ECA WALL L407**

**ECA WALL JOINTING LEGEND**

SCORE JOINT  
 FOR JOINTING DETAILS, REF 8 / L401

**GRADING LEGEND:**

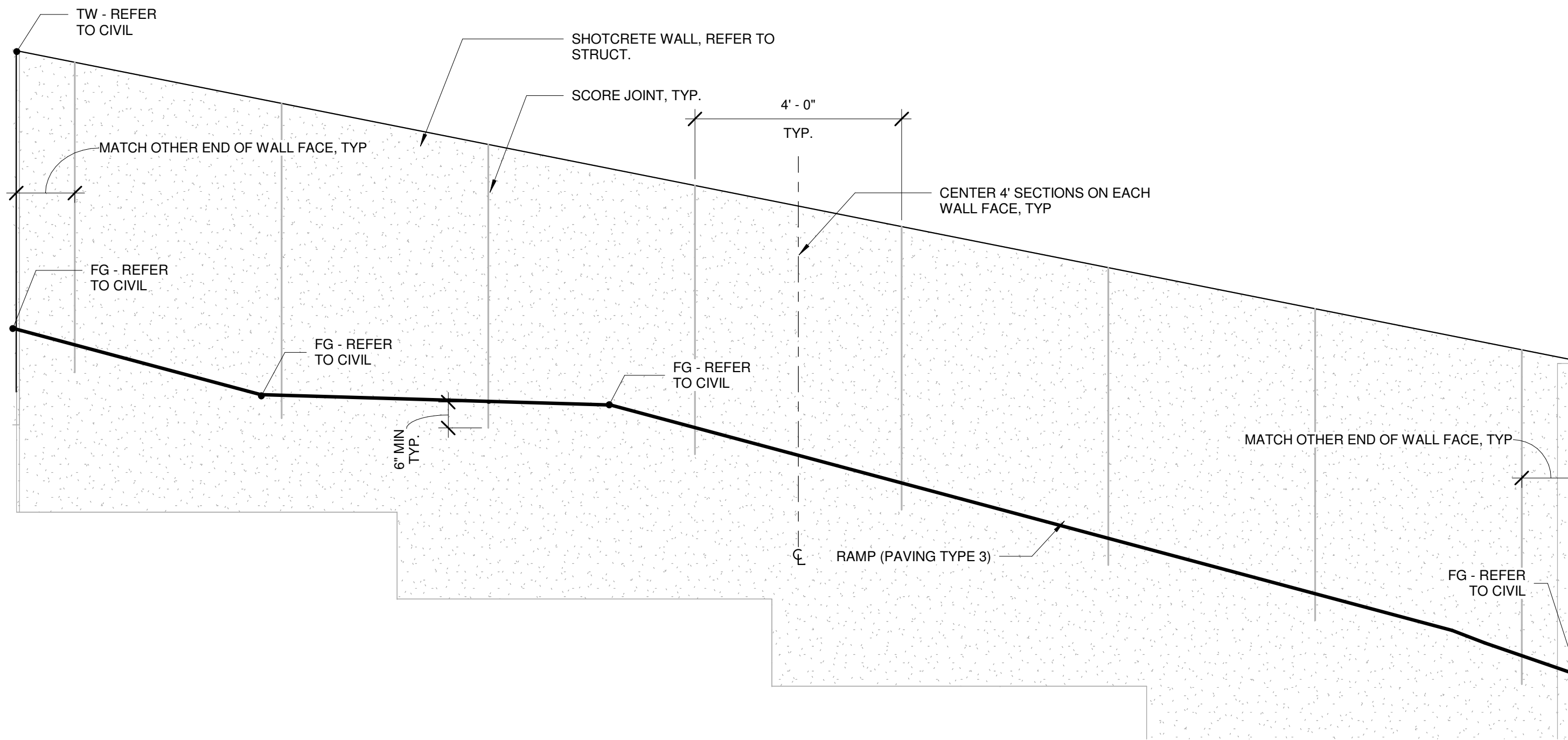
FG FINISH GRADE  
 TW TOP OF WALL



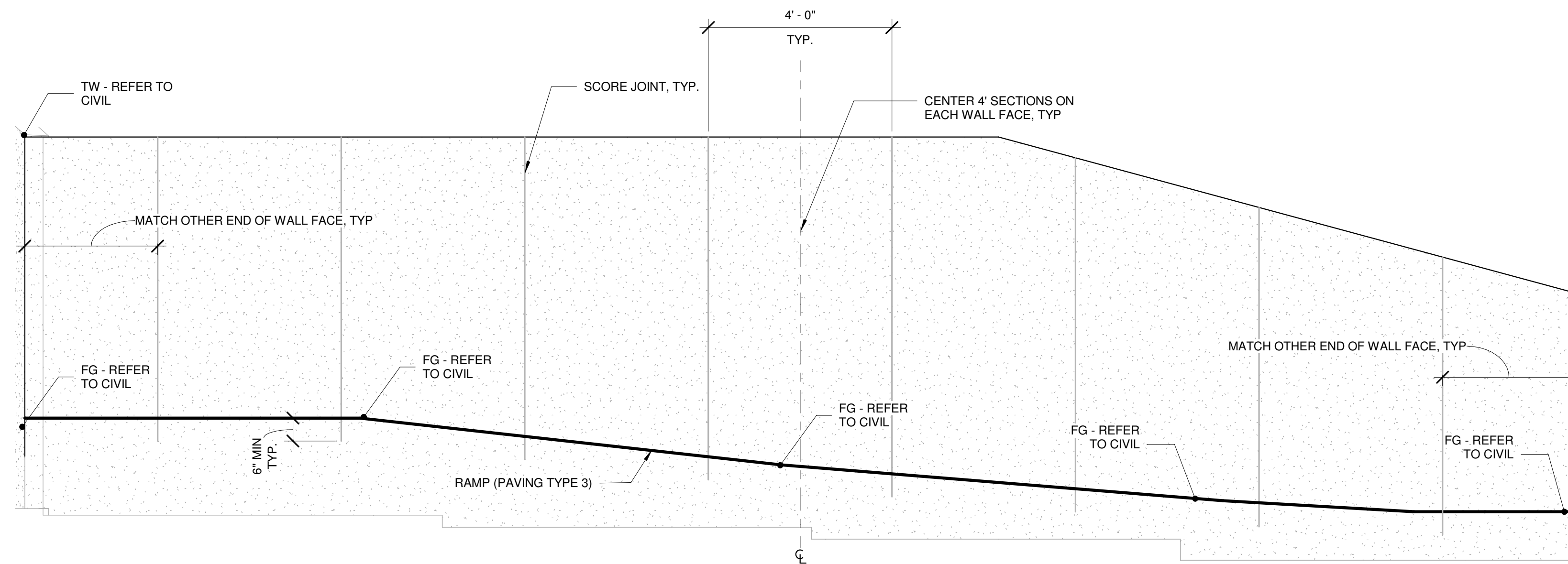
The Miller Hull Partnership, LLP  
 Architecture and Planning  
 Polson Building  
 71 Columbia, Sixth Floor  
 Seattle, WA 98104  
 Phone: 206.682.6837  
 Contact: Name



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1 ECA SITE WALL SECTION-ELEVATION-F (1/2)  
 1/2" = 1'-0"



2 ECA SITE WALL SECTION-ELEVATION-G (1/2)  
 1/2" = 1'-0"

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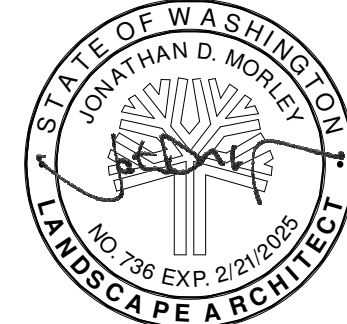
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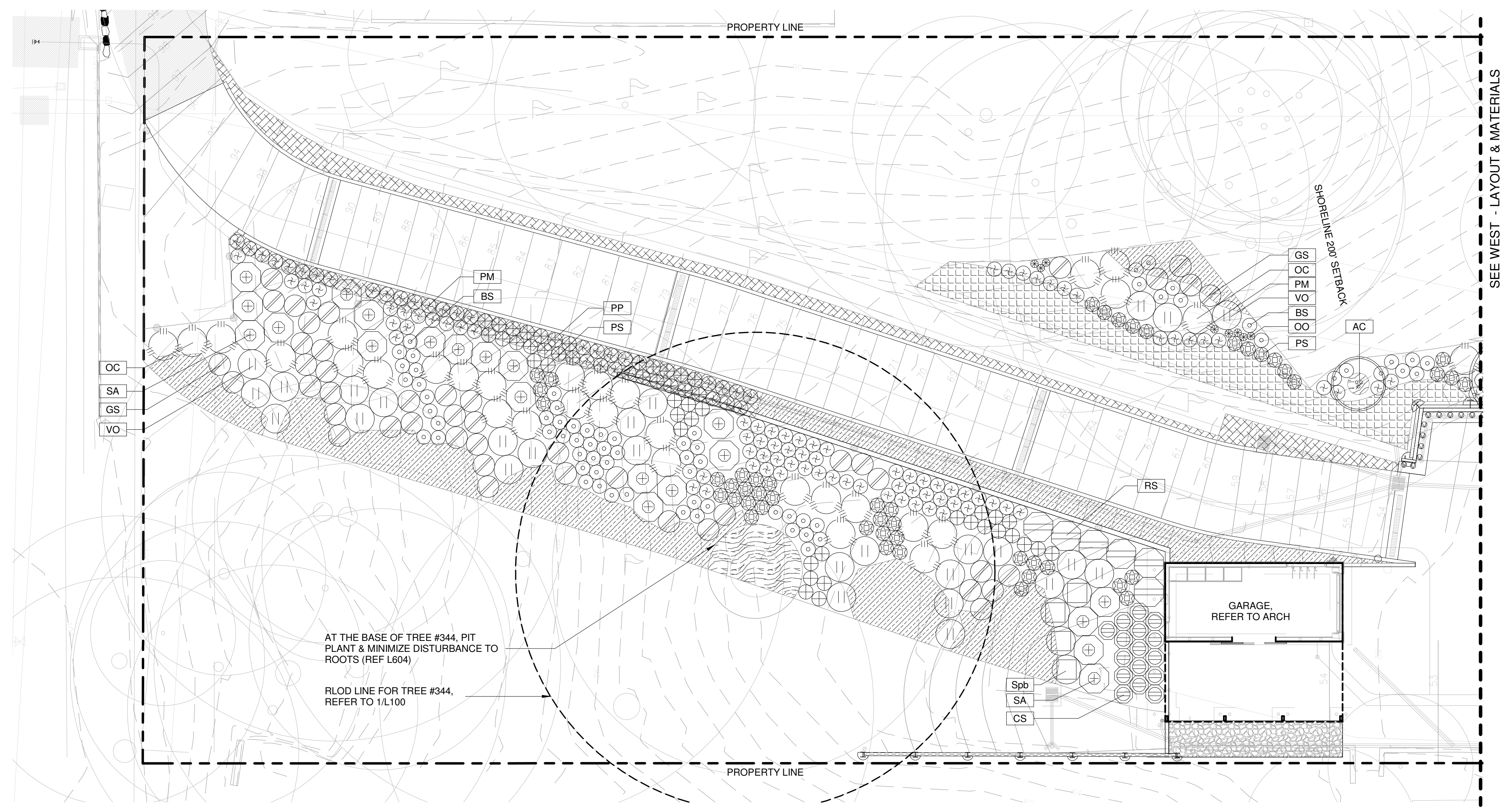
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**SITE DETAILS - ECA WALL L408**

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- NOTES:**
1. REFER TO SHEET L604 FOR COMPLETE PLANTING SCHEDULE
  2. REFER TO 3/G-200 FOR INVASIVE SPECIES REMOVAL ONSITE. IN ADDITION TO REMOVING ALL AT-GRADE INVASIVE PLANTS, REMOVE ALL INVASIVE CLIMBERS AND VINES AS HIGH AS POSSIBLE (IVY, WISTERIA, ETC.)
  3. REFER TO 1/G-200 FOR LANDSCAPE / HARDSCAPE CALCULATIONS



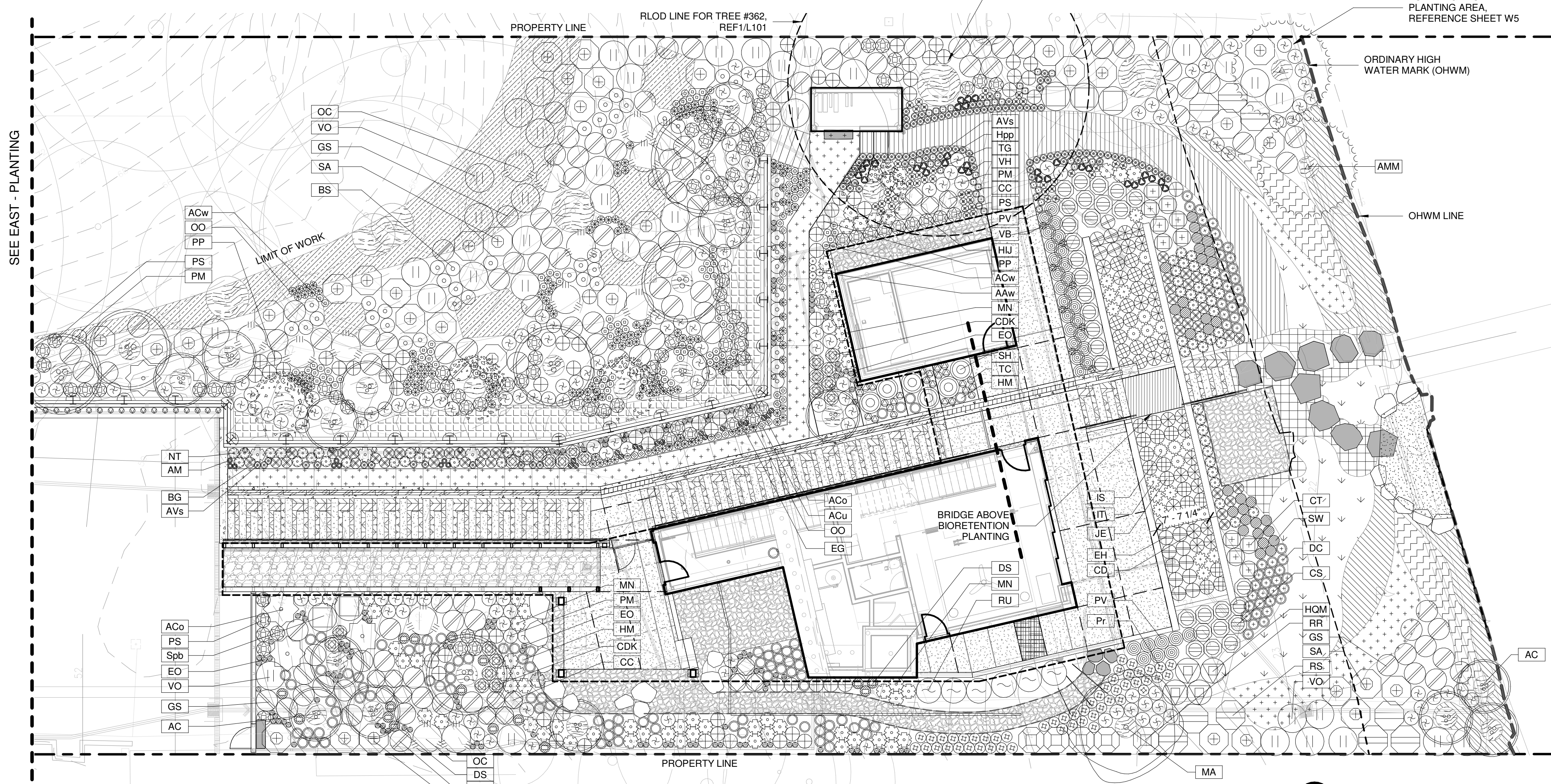
**1 WEST - PLANTING**  
 1" = 10'-0"

Type Mark	Species Name
AC	ACER CIRCINATUM
AMM	ACER MACROPHYLLUM
AM	ARBUTUS MENZIESEII
HJ	HAMMELIS INTERMEDIA X 'JELENA'
MA	MAGNOLIA SP

**PLANTING MIX & MULCH LEGEND**

- ARCTOSTAPHYLOS UVA URSI (Kirkmick 4" POT @ 18" O.C.)
- GROUNDCOVER MIX 1: 40% Fragaria chiloensis, 60% Sedum oreganum (4" POT 18 O.C. TRIANGULAR SPACING)
- GROUNDCOVER MIX 2: 70% Deschampsia cespitosa, 15% Lupine, 15% Columbine (1 GAL 18" O.C. TRIANGULAR SPACING)
- GROUNDCOVER MIX 3: 50% RUBUS CALYCIDOIDES, 50% ARCTOSTAPHYLOS UVA-URSI
- GROUNDCOVER MIX 4: 33.3% FRAGARIA CHILOENSIS, 33.3% ASARUM CAUDATUM, 33.3% ARCTOSTAPHYLOS UVA-URSI
- JUNCUS EFFUSUS - COMMON RUSH (1 GAL @ 24" O.C.)
- MULCH
- NO MOW GRASS (PT Lawn Seed - PT 702 Lat II Bee - No Mow)
- POLLINATOR MEADOW (NW Meadowscares - NW Prairie Seed Mix)
- SPINE STAIR PLANTING 50% CORSICAN MINT, 50% BRASS BUTTONS

Type Mark	Species Name
AM	ACHILLEA MILLEFOLIUM
ACo	ARCTOSTAPHYLOS COLUMBIANA
AVs	ARCTOSTAPHYLOS UVA URSI
ACu	ASARUM CAUDATUM
Aaw	ASTILBE ARENDsii 'WHITE GLORIA'
ACw	ASTILBE CHINENSIS 'VISIONS IN PURPLE'
BS	BLECHNUM SPICANT
BG	BOUTELOJA GRACILIS 'BLONDE AMBITION'
CD	CAREX DEWEYANA
CDK	CAREX DOLICHOSTACHYA 'KAGA-NISHIKI' GOLD FOUNTAINS
CT	CHOISYA TERNATA 'LICH' SUNDANCE
CC	CIMICIFUGA CHOCOHOIC
CS	CORNUS SERICEA 'KELSEY'
DC	DESCHAMPSIA CESPITOSA
DS	DICENTRA SPECTABILIS
EG	EPIMEDIUM X RUBRUM 'GALADRIEL'
EO	EPIMEDIUM X WARLEYENSE 'ORANGE QUEEN'
EH	EQUISETUM HYEMALE
GS	GALTHERIA 'SHALL ON'
HM	HAKONECHLOA MACRA
Hpp	HELLEBORUS 'PIPPA'S PURPLE'
HOM	HYDRANGEA QUERCIFOLIA 'MUCKIN'
IS	IRIS SIBIRICA
IT	IRIS TENAX
JE	JUNCUS EFFUSUS
MN	MAHONIA NERVOSA
NT	NASSELLA TENUISSIMA
OC	OEMLARIA CERASIFORMIS
OO	OXALIS OREGANA
PV	PANICUM VIRGATUM BROTHERS'
PT	PARTHENOISSUS TRICUSPIDATA
Pr	PENSTEMON 'RAVEN'
PM	POLYSTICHUM MUNITUM
PP	POLYSTICHUM POLYBLEPHARUM
PS	POLYSTICHUM SETIFERUM
RU	RHAPHIOLEPIS UMBELLATA 'MINOR'
RR	RIBES SANGUINEUM
RR	ROSA RUGOSA
SW	SALVIA MEMOROSA 'WESUWE'
SH	SARCOCOCCA CONFUSA
Spb	SYMPHORICARPUS 'PROUD BERRY'
SA	SYMPHORICARPUS ALBUS
TG	TELLIMA GRANDIFLORA
VO	TIARELLA CORDIFOLIA 'SUGAR AND SPICE'
VC	VACCINIUM OVATUM
VH	VANCOUVERIA HEXANDRA
VB	VERBENA BONARIENSIS



**2 EAST - PLANTING**  
 1" = 10'-0"

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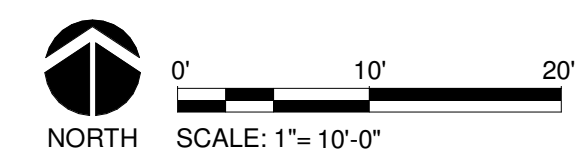
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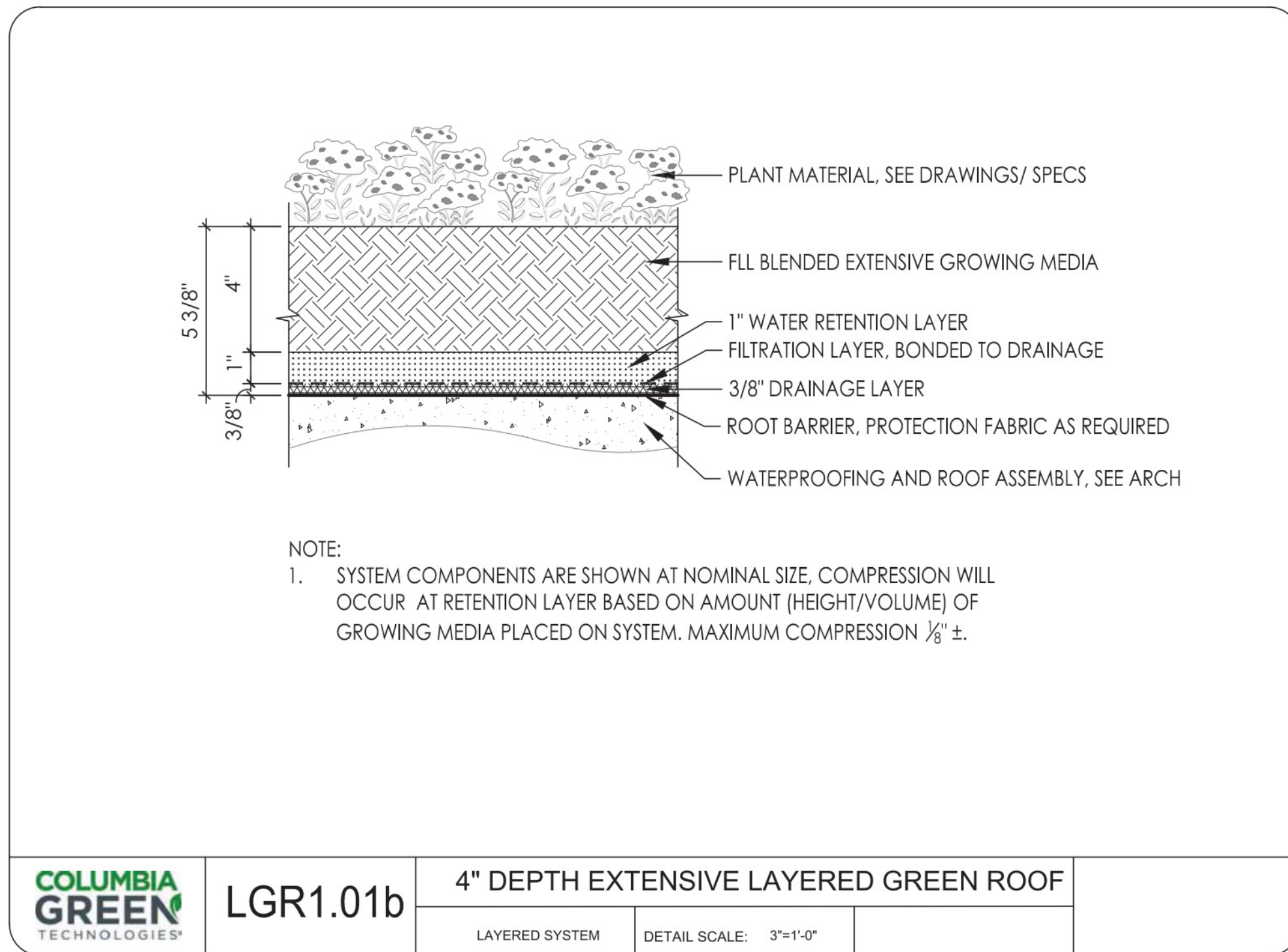
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**PLANTING PLAN L601**



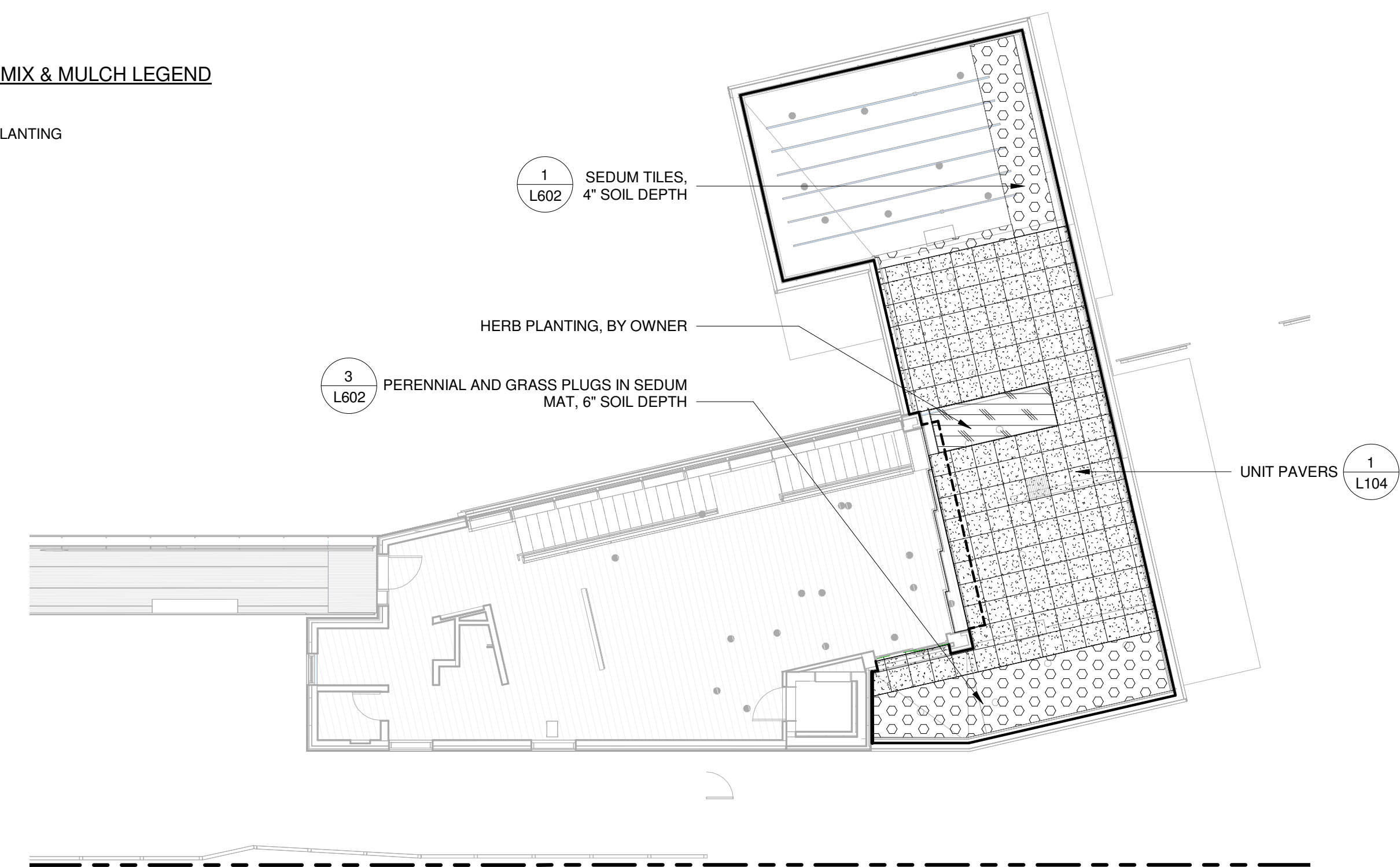
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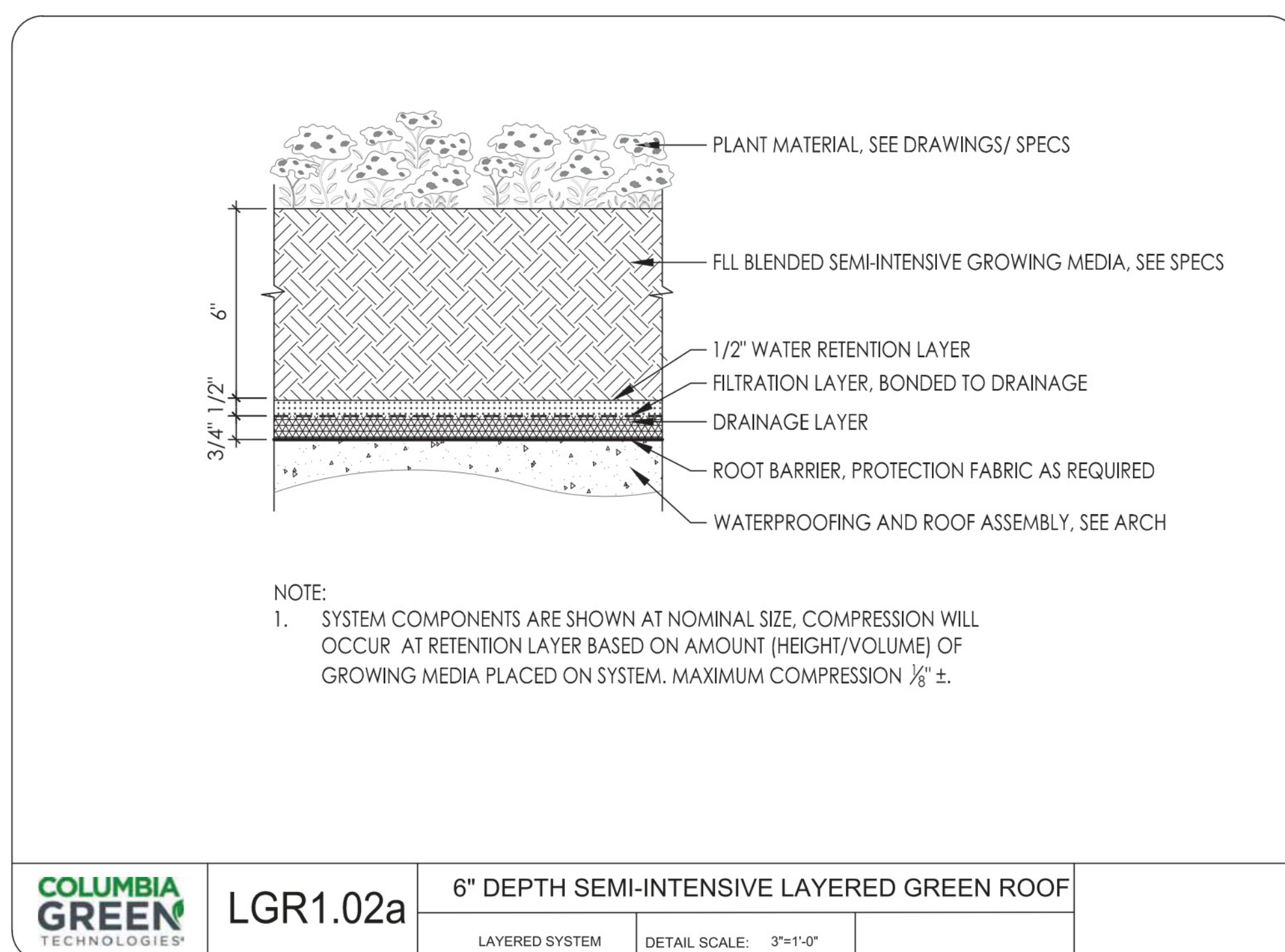
**1 GREEN ROOF, 4" DEPTH**  
 1 1/2" = 1'-0"

**PLANTING MIX & MULCH LEGEND**

- HERB PLANTING
- SEDUM



**2 ROOF PLANTING**  
 1" = 10'-0"



**3 GREEN ROOF, 6" DEPTH**  
 1 1/2" = 1'-0"

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**ROOF PLANTING PLAN & DETAILS L602**

TREE SCHEDULE						
SYMBOL	TYPE MARK	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
	AC	16	ACER CIRCINATUM	VINE MAPLE	MULTI-TRUNK: 3 STEMS; 1.5" CAL. MIN. EACH; 7-9' HT. MIN.	AS SHOWN
	AC	5	ACER CIRCINATUM	VINE MAPLE	MULTI-TRUNK: 3 STEMS; 2" CAL. MIN. EACH; 10-12' HT. MIN.	AS SHOWN
	AMM	2	ACER MACROPHYLLUM	BIG LEAF MAPLE	1.5" CAL.; 6-8' HT. MIN., SINGLE TRUNK	AS SHOWN
	AM	1	ARBUTUS MENZIESEII	PACIFIC MADRONE	1.5" CAL.; 6-8' HT. MIN.	AS SHOWN
	MA	1	MAGNOLIA SP	MAGNOLIA	3.5" CAL. MIN. TO BE SELECTED BY LANDSCAPE ARCHITECT AT NURSERY	AS SHOWN

**PLANTING MIX SCHEDULE**

- ARCTOSTAPHYLOS UVA URSI | KINNIKINNICK**  
(399 SF)  
4" POT @ 18" O.C., TRIANGULAR SPACING
- GROUND COVER MIX 1: 40% FRAGARIA CHILOENSIS, 60% SEDUM OREGANUM**  
(166 SF)  
4" POT @ 18" O.C., TRIANGULAR SPACING
- GROUND COVER MIX 2: 70% DESCHAMPSIA CESPITOSA, 15% LUPINUS POLYPHYLLUS, 15% AQUILEGIA FORMOSA**  
(239 SF)  
1 GAL. @ 18" O.C., TRIANGULAR SPACING
- GROUND COVER MIX 3: 50% RUBUS CALYCINOIDES, 50% ARCTOSTAPHYLOS UVA-URSI**  
(655 SF)  
1 GAL. @ 18" O.C., TRIANGULAR SPACING
- GROUND COVER MIX 4: 33.3% FRAGARIA CHILOENSIS, 33.3% ASARUM CAUDATUM, 33.3% ARCTOSTAPHYLOS UVA-URSI**  
(1684 SF)  
4" POTS, @ 18" O.C., TRIANGULAR SPACING
- SPINE STAIR PLANTING 50% CORSICAN MINT, 50% BRASS BUTTONS**  
(277 SF)  
4" POTS, @ 8" O.C., TRIANGULAR SPACING
- JUNCUS EFFUSUS | COMMON RUSH**  
(193 SF)  
1 GAL. @ 24" O.C., TRIANGULAR SPACING
- POLLINATOR MEADOW MIX**  
(443 SF)  
NW MEADOWSCAPES, NW PAIRIE MIX
- NO MOW GRASS**  
(392 SF)  
PT LAWN SEED, PT-702 'LET IT BEE' NO MOW MIX
- MULCH**  
(450 SF)  
SEE SPEC
- SEDUM GREEN ROOF**  
(228 SF)  
COLUMBIA GREEN - TUFF STUFF SEDUM MIX
- HERB PLANTING (ROOF TERRRACE)**  
(43 SF)

SHRUB, GRASS & PERENNIAL SCHEDULE						
SYMBOL	TYPE MARK	QTY	BOTANICAL NAME	COMMON NAME	SIZE	
	AM	9	ACHILLEA MILLEFOLIUM	YARROW	1 GAL	
	ACo	6	ARCTOSPAPHYLOS COLUMBIANA	HAIRY MANZANITA	5 GAL	
	AVs	99	ARCTOSTAPHYLOS UVA URSI	KINNIKINNICK	1 GAL	
	ACu	27	ASARUM CAUDATUM	WILD GINGER	1 GAL	
	AAw	4	ASTILBE ARENDsii 'WHITE GLORIA'	WHITE ASTILBE	1 GAL	
	ACw	93	ASTILBE CHINENSIS 'VISIONS IN PURPLE'	PURPLE CHINESE ASTILBE	1 GAL	
	BS	116	BLECHNUM SPICANT	DEER FERN	3 GAL	
	BG	42	BOUTELOUA GRACILIS 'BLONDE AMBITION'	BLONDE AMBITION BLUE GRAMA GRASS	1 GAL	
	CD	26	CAREX DEWEYANA	DEWEY'S SEDGE	1 GAL	
	CDK	21	CAREX DOLICHOSTACHYA 'KAGA-NISHIKI' GOLD FOUNTAINS	Japanese Sedge	1 GAL	
	CT	11	CHOISYA TERNATA 'LICH' SUNDANCE	MEXICAN ORANGE BLOSSOM	3 GAL	
	CC	15	CIMICIFUGA CHOCOHOIC	BLACK SNAKEROOT	1 GAL	
	CS	46	CORNUS SERICEA 'KELSEY'	KELSEY DOGWOOD	3 GAL	
	DC	51	DESCHAMPSIA CESPITOSA	TUFTED HAIRGRASS	1 GAL	
	DS	16	DICENTRA SPECTABILIS	BLEEDING HEART	1 GAL	
	EG	17	EPIMEDIUM X RUBRUM 'GALADRIEL'	BARRENWORT - RED	1 GAL	
	EO	132	EPIMEDIUM X WARLEYENSE 'ORANGE QUEEN'	BARRENWORT - ORANGE	1 GAL	
	EH	15	EQUISETUM HYEMALE	SCOURING RUSH	1 GAL	
	GS	157	GAULTHERIA SHALLON	SALAL	1 GAL	
	HM	89	HAKONECHLOA MACRA	JAPANESE FOREST GRASS	1 GAL	
	Hpp	34	HELLEBORUS 'PIPPA'S PURPLE'	LENTEN ROSE	1 GAL	
	HQM	4	HYDRANGEA QUERCIFOLIA 'MUCHKIN'	MUNCKIN HYDRANGEA	3 GAL	

SHRUB, GRASS & PERENNIAL SCHEDULE						
SYMBOL	TYPE MARK	QTY	BOTANICAL NAME	COMMON NAME	SIZE	
	IS	10	IRIS SIBIRICA	SIBERIAN IRIS	1 GAL	
	IT	12	IRIS TENAX	TOUGH-LEAF IRIS	1 GAL	
	JE	31	JUNCUS EFFUSUS	COMMON RUSH	1 GAL	
	MN	71	MAHONIA NERVOSA	DULL OREGON GRAPE	1 GAL	
	NT	58	NASSELLA TENUISSIMA	MEXICAN FEATHER GRASS	1 GAL	
	OC	45	OEMLARIA CERASIFORMIS	INDIAN PLUM	3 GAL	
	OO	159	OXALIS OREGANA	RED SORREL	1 GAL	
	PV	32	PANICUM VIRGATUM BROTHERS'	RED SWITCH GRASS	1 GAL	
	PT	49	PARTHENOCISSUS TRICUSPIDATA	BOSTON IVY	1 GAL	
	Pr	51	PENSTEMON 'RAVEN'	PENSTEMON	1 GAL	
	PM	259	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	1 GAL	
	PP	123	POLYSTICHUM POLYBLEPHARUM	TASSEL FERN	1 GAL	
	PS	138	POLYSTICHUM SETIFERUM	ALASKA FERN	3 GAL	

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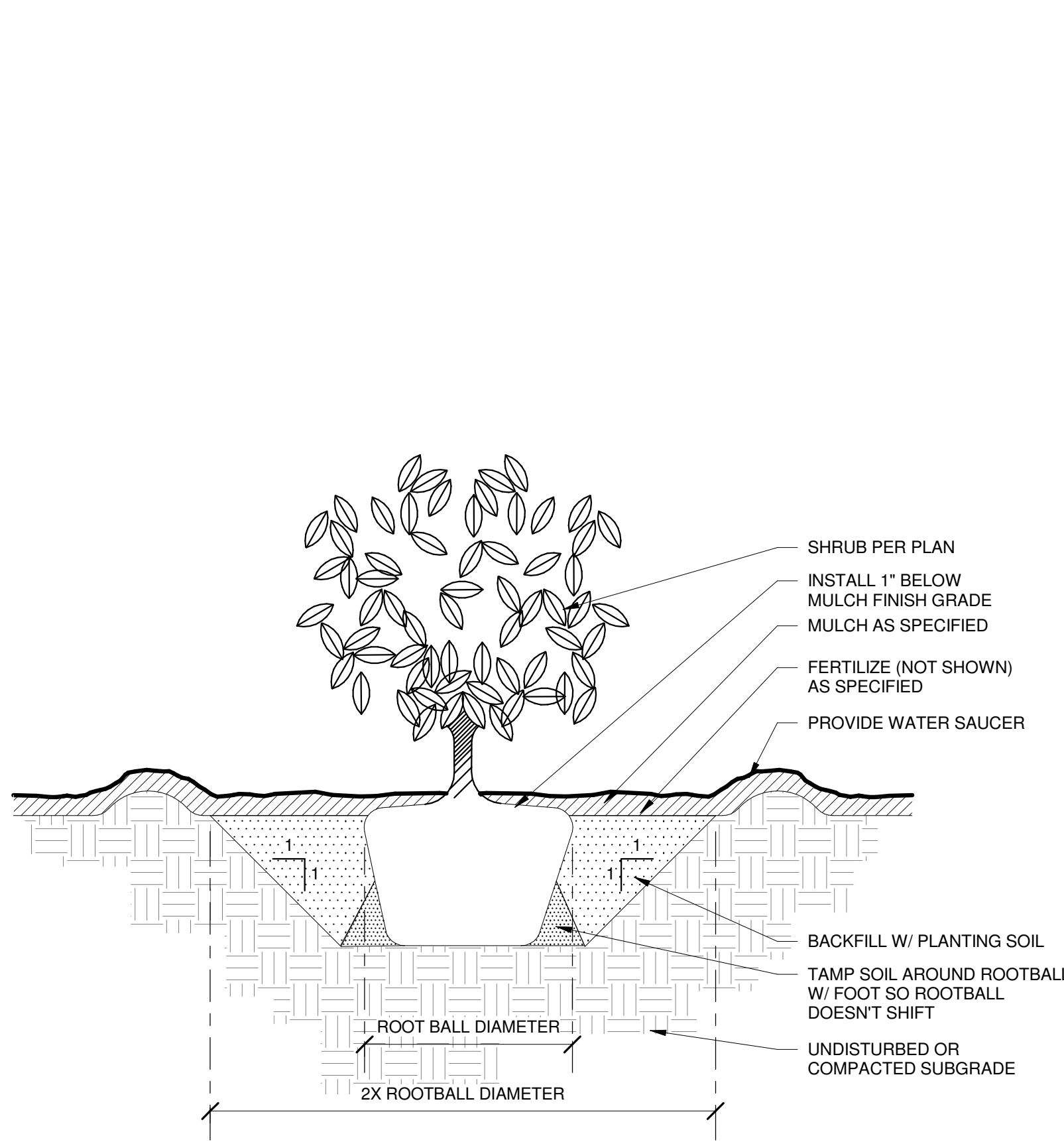
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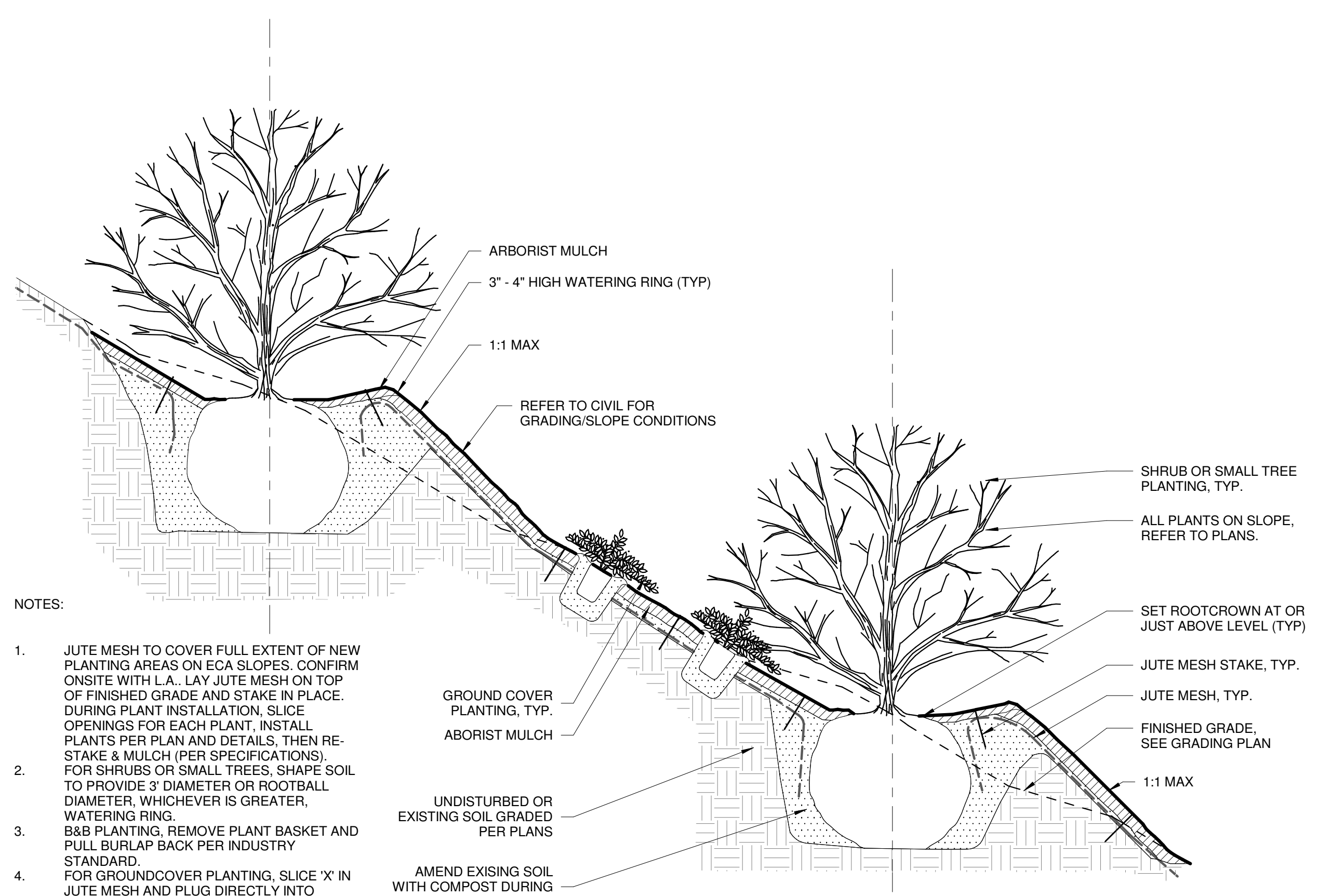
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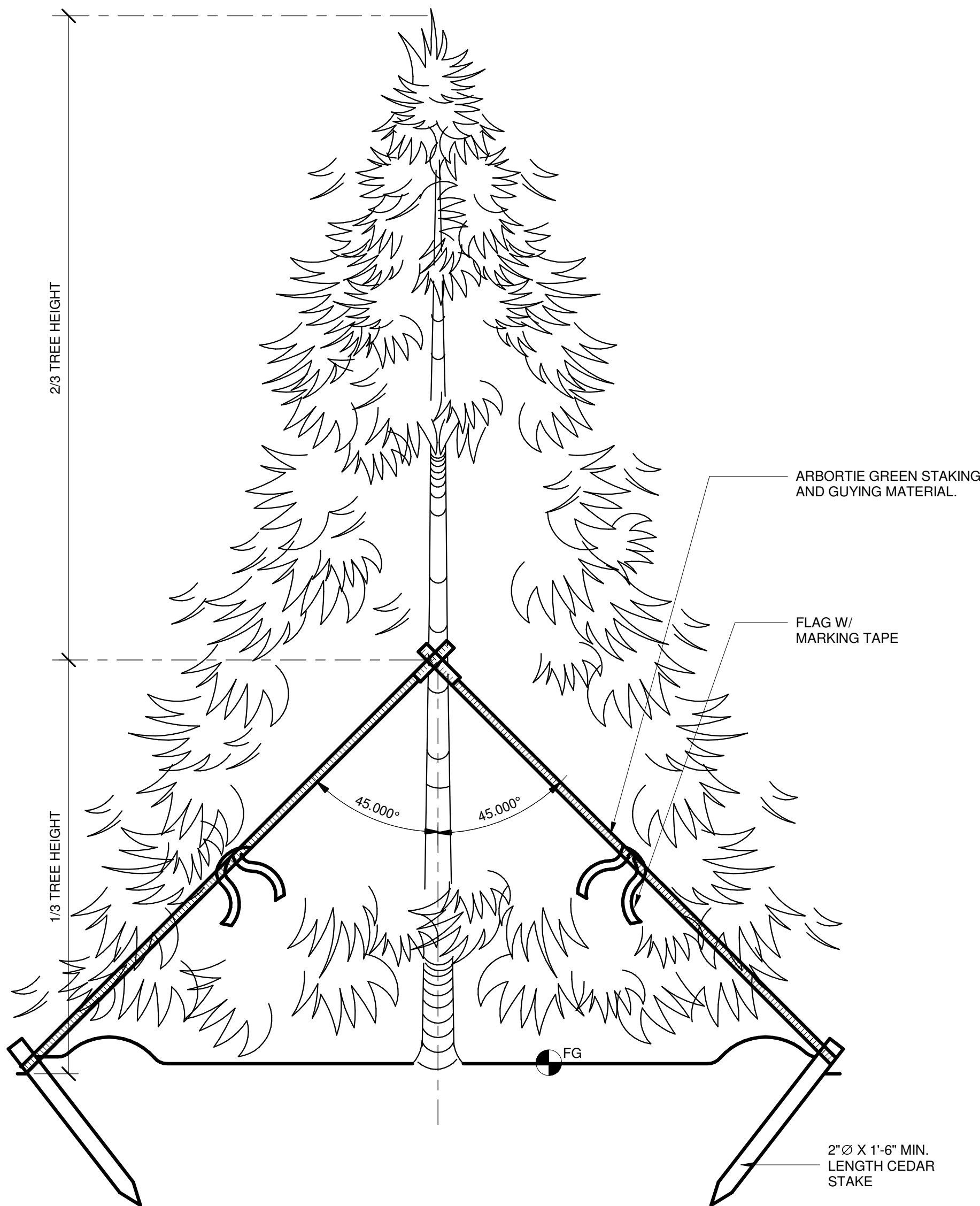
**PLANTING SCHEDULE L603**



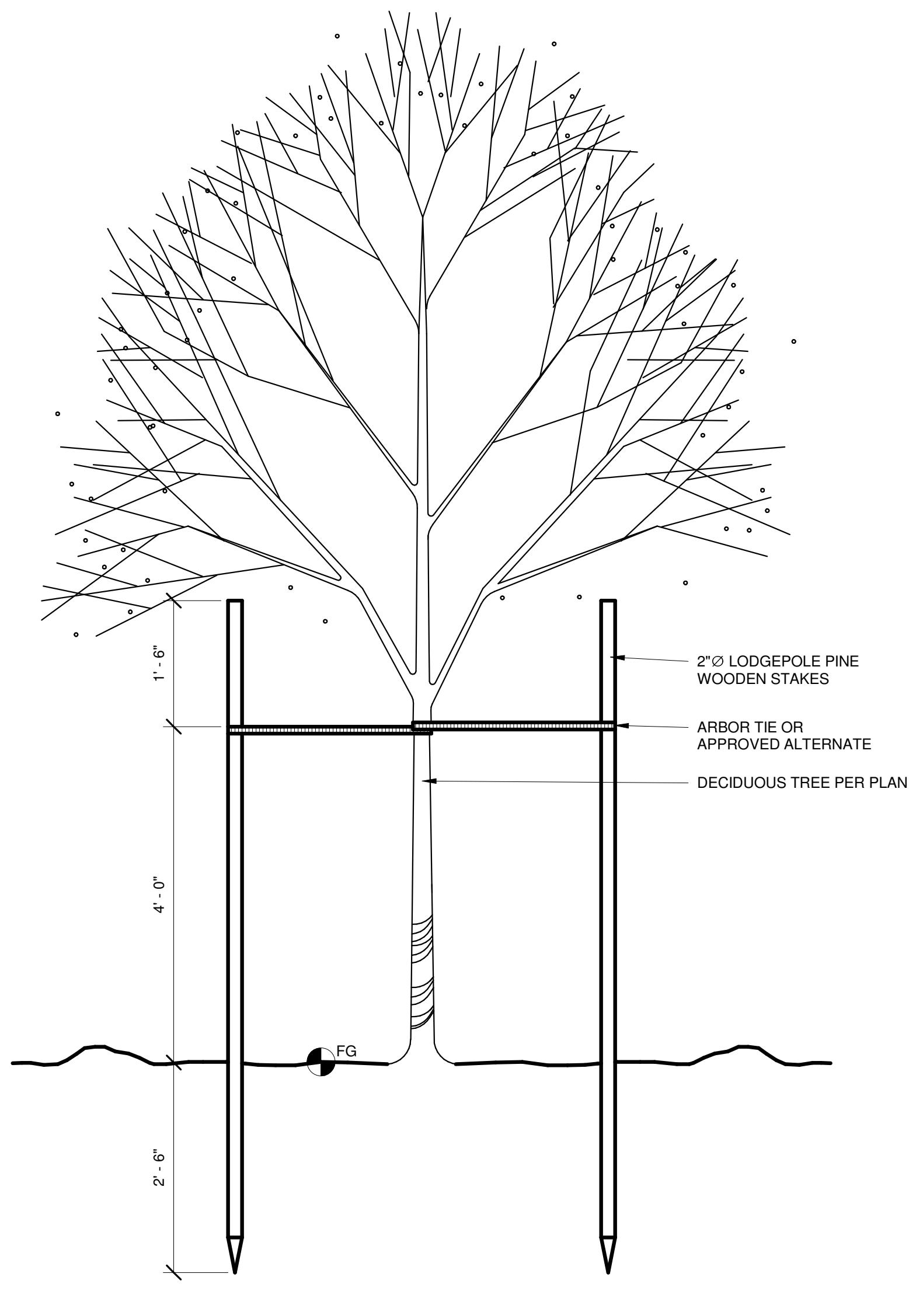
1 PLANTING - SHRUB  
1" = 1'-0"



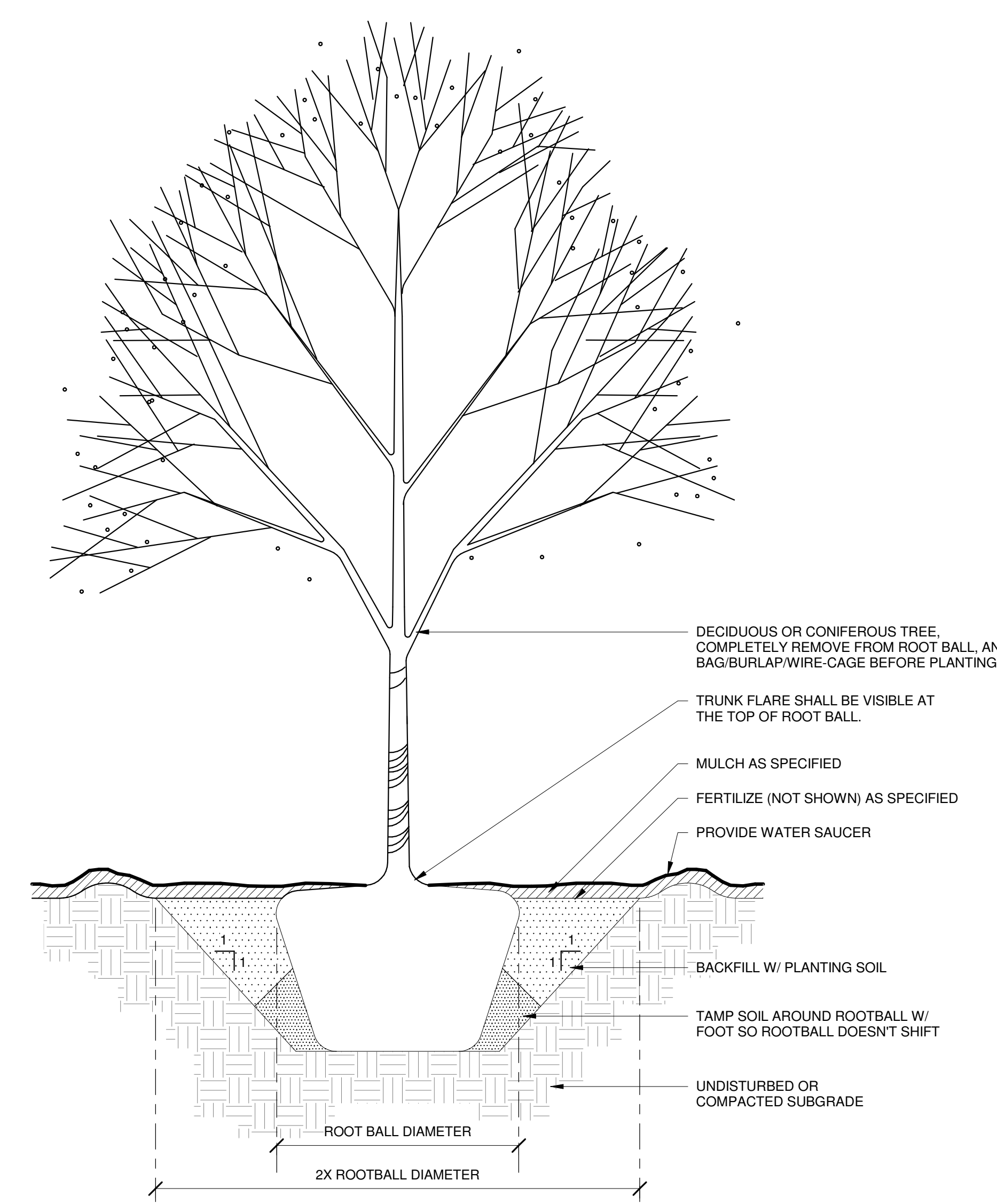
2 PLANTING ON A SLOPE  
1/2" = 1'-0"



3 TREE GUYING - CONIFER  
3/4" = 1'-0"



4 TREE STAKING - DECIDUOUS  
3/4" = 1'-0"



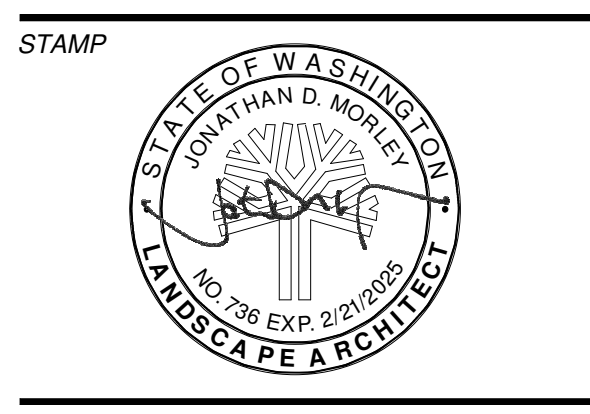
5 PLANTING - CONIFEROUS AND DECIDUOUS TREE  
3/4" = 1'-0"

**LANDSCAPE MANAGEMENT SCHEDULE**

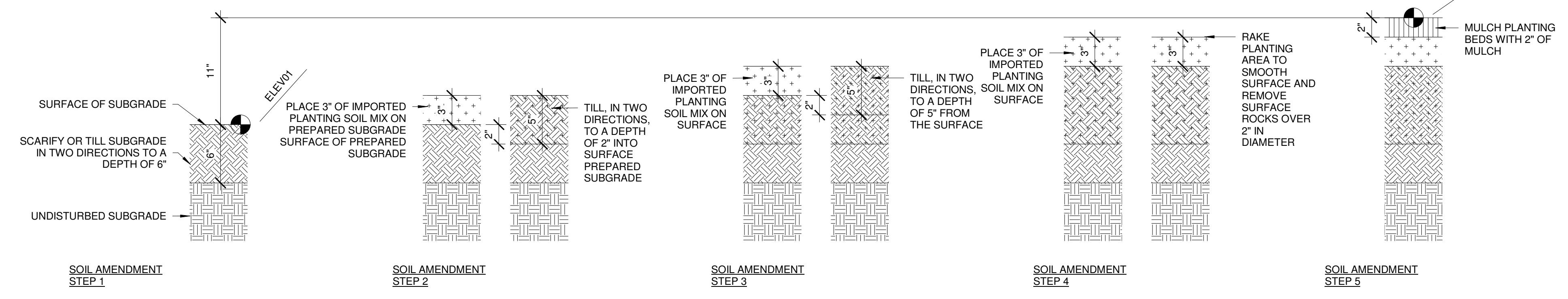
The following is a recommended monthly landscape maintenance schedule that can be performed by the Owners or a landscape maintenance company.

- January**
  - Prune any tree branches damaged by winter storms or pose a safety concern. Prune shade trees yearly to encourage strong upward growth. Do not top trees.
- February**
  - Weed planting beds weekly. Apply an organic non-toxic granular fertilizer around trees or shrubs in late February. Make application prior to a moderate rainfall so the fertilizer will be absorbed.
  - Add new mulch to planters where the mulch depth has been reduced to less than 2 inches (5 cm) thick. Mulch not required where shrubs or groundcover completely hide the soil surface from view.
- March**
  - Weed planting beds weekly. Flush out irrigation systems as needed, run and check for proper operation of each valve zone. Test sensors (rain, soil, or weather sensors).
  - Remove and clean WYE filter screens.
  - Clean or replace plugged sprinkler nozzles. Replace plugged drip emitters.
  - Replace irrigation controller program back-up batteries.
- April**
  - Weed planting beds weekly. Fertilize all landscape areas using non-toxic organic fertilizers. The fertilization of shrubs/groundcover areas may be eliminated when the plants reach maturity or completely fill the planters, without space between them.
  - Add new mulch to planters where the mulch depth has been reduced to less than 2 inches (5 cm) thick. Mulch not required where shrubs or groundcover completely hide the soil surface from view.
- May**
  - Weed planting beds weekly. Turn on irrigation system, run and visually inspect for proper zone coverage. Set ET-based, weather or soil sensor-based, or seasonal programs to adjust irrigation up in July-August, and down for May-June and September.
- June**
  - Weed planting beds weekly. Prune spring & winter-flowering shrubs as needed to maintain proper shape – do not shear.
  - Add new mulch to planters where the mulch depth has been reduced to less than 2 inches (5 cm) thick. Mulch not required where shrubs or groundcover completely hide the soil surface from view.
  - Prune perennials back to ground level as soon as leaf blades yellow and wilt (June-Oct. depending on type, refer to schedule attached).
- July**
  - Weed planting beds weekly. Re-stake or re-direct vines to trellis until established.
  - Prune vines as needed to keep out of window recesses or if vines are extending above the first story (12 feet above street level).
- August**
  - Weed planting beds weekly. Add new mulch to planters where the mulch depth has been reduced to less than 2 inches (5 cm) thick. Mulch not required where shrubs or groundcover completely hide the soil surface from view.
- September**
  - Weed planting beds weekly. Fertilize all landscape areas using non-toxic organic fertilizer. September or early October. The fertilization of shrubs/groundcover areas may be eliminated when the plants reach maturity or completely fill the planters, without space between them. Written authorization from the owner's representative is required before the fertilization may be eliminated from the required work.
  - Inventory all plant materials. Inventory shall include an exact count of all shrubs and trees, itemized by planter. Replace any dead or missing plants species as indicated on as built drawings.
  - Prune perennials back to ground level as soon as leaf blades yellow and wilt (from June through October, depending on bulb type, refer to attached schedule). Maintain 2 inches of mulch on ground surface over bulbs to insulate from cold and prevent winter weed growth.
- October**
  - Weed planting beds weekly. Have backflow preventer (on irrigation water supply) tested by approved plumbing technician. Turn off and prepare irrigation system for winter. Make sure backflow preventer is well-insulated or drained prior to first freeze. Blow out pipes using compressed air in areas where freezing could result in breakage. Drain drip irrigation lines as recommended by manufacturer. Any winter damage to irrigation system due to insufficient winterization shall be the responsibility of the contractor to repair.
  - Add new mulch to planters and swale where the mulch depth has been reduced to less than 2 inches (5 cm) thick. Mulch additions are not required where shrubs or groundcover completely hide the soil surface from view.
- November**
  - Add new mulch to planters and swale where the mulch depth has been reduced to less than 2 inches (5 cm) thick. Mulch additions are not required where shrubs or groundcover completely hide the soil surface from view.
- December**
  - Prune trees yearly as needed to remove dead and crossing branches and to encourage spreading and upward growth that fits the available space. Do not top trees.
  - Prune summer and fall-blooming shrubs as needed to maintain proper shape.

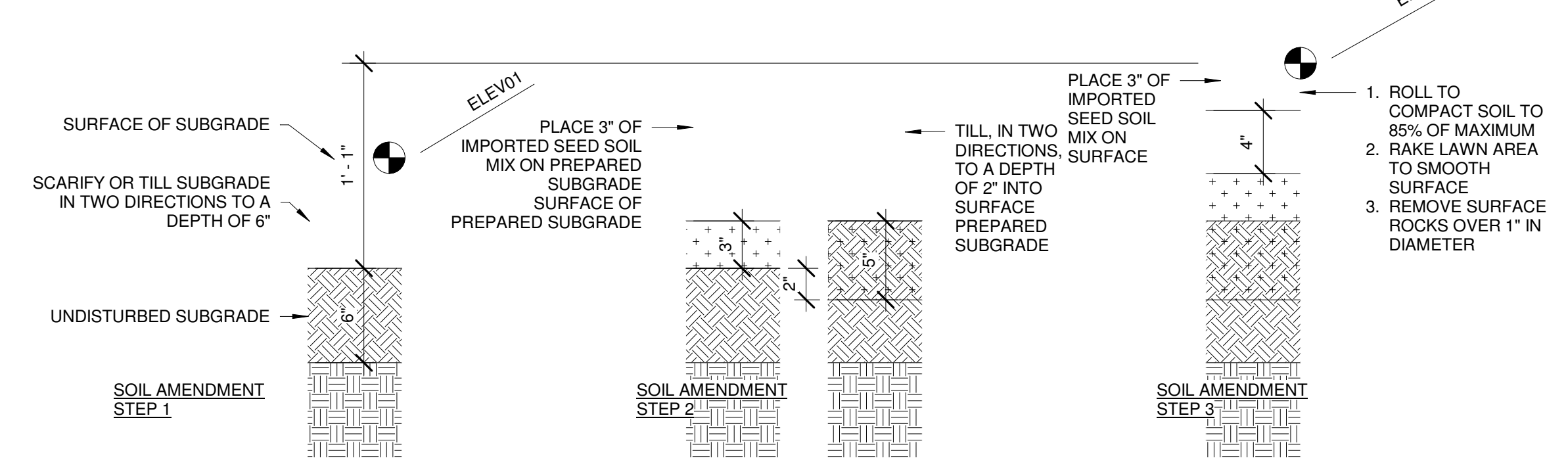
REVISIONS		
No.	Description	Date
1	Building Permit Resubmittal	10/27/2022



**PLANTING SOIL AMENDMENTS**



**SEED MIX SOIL AMENDMENTS**

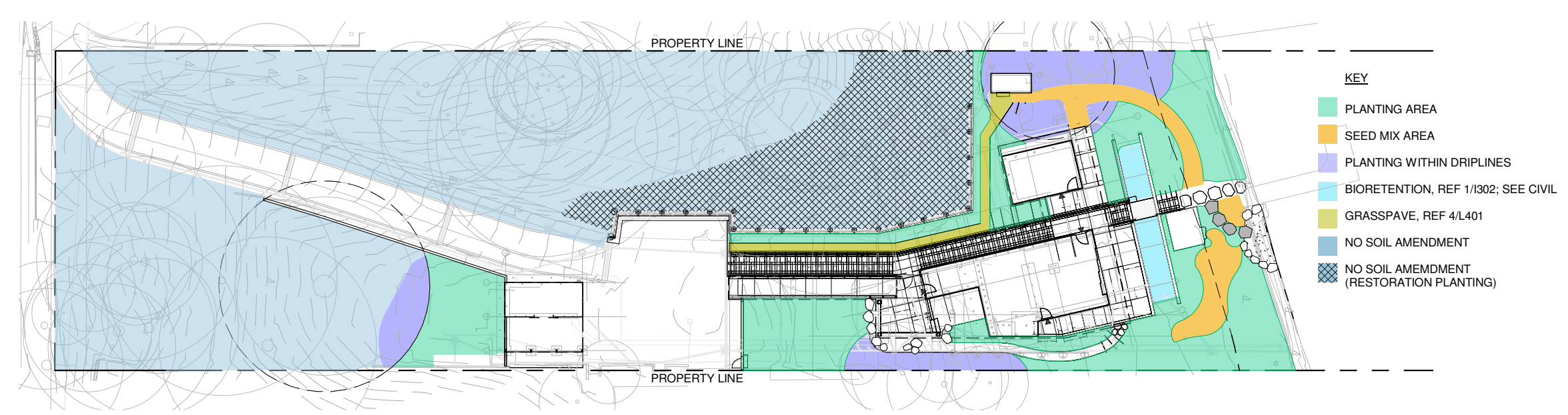


- GENERAL SOIL PREPARATION NOTES:**
1. ALL PLANTING AREAS (EXCEPT ECA AREAS, TREE PROTECTION AREAS AND ANY AREAS WITHIN DRIPLEINES OF EXISTING TREES TO REMAIN) TO RECEIVE 9" TOTAL DEPTH IMPORT TOPSOIL, PER SOIL AMENDMENT DIAGRAM (RIGHT).
  2. REFER TO ECA, RESTORATION AREAS AND LIMITS OF DISTURBANCE NOTES BELOW FOR RESTRICTED SOIL PREPARATION WITHIN THESE AREAS.
  3. REFER TO SPECS FOR SOIL MIXES.
  4. ALL SCARIFICATION OR TILLING SHALL BE CONDUCTED IN TWO DIRECTIONS AT 90 DEGREES TO EACH OTHER.

- ECA RESTORATION AREAS & LIMITS OF DISTURBANCE NOTES:**
1. RESTORATION PLANTING AND SEEDING LIMITS ARE UNDETERMINED AND SUBJECT TO CHANGE BASED ON CITY OF MERCER ISLAND REQUIREMENTS AND ALLOWANCES
  2. ASSUME ALL RESTORATION AREAS BE CLEARED OF NOXIOUS AND INVASIVE SPECIES AND PROPERLY DISPOSED OF OFF SITE. ALSO REMOVE ANY UNWANTED ORNAMENTAL VEGETATION TAGGED BY THE LANDSCAPE ARCHITECT. REFER TO 1/G-200 FOR EXTENTS OF INVASIVE PLANT REMOVAL.
  3. CONTRACTOR TO PROVIDE EROSION CONTROL AND TREE PROTECTION MEASURES. REFER TO CIVIL DRAWINGS. ALL ECA SLOPES TO BE PREPARED WITH STAKED JUTE MESH PRIOR TO PLANT INSTALLATION, SEE DETAIL 2/L603.
  4. LIMIT FOOT TRAFFIC WITHIN THE ECA AND ASSOCIATED BUFFERS.
  5. EQUIPMENT SHALL NOT BE USED OR STORED WITHIN THE ECA OR ASSOCIATED BUFFERS.
  6. STORE NO MATERIALS OR DEBRIS WITHIN THE ECA OR ASSOCIATED BUFFERS.
  7. PLANTING AND/OR SEEDING SHALL NOT BE DONE DURING WINDY WEATHER OR WHEN THE GROUND IS FROZEN, EXCESSIVELY WET OR UNTILLABLE. PLANTING WITHIN THE ECA TO BE INSTALLED IN THE FALL OR EARLY SPRING (IDEALLY OUTSIDE OF THE 'WET WEATHER SEASON', OCTOBER 1ST THROUGH APRIL 1ST). PERMITS ARE REQUIRED FOR ANY WORK PERFORMED DURING THE 'WET WEATHER SEASON.' CONTRACTOR TO COORDINATE PERMIT WITH CITY OF MERCER ISLAND.
  8. IN AREAS WITHIN THE RLOD (RECOMMEND LIMIT OF DISTURBANCE) FOR TREES, OR UNDER ANY RETAINED EXISTING TREE DRIPLENE WHERE SOILS MUST BE AMENDED TO SUPPORT NEW PLANTINGS, ALL SOIL PREPARATION AND AMENDMENT SHOULD BE LIMITED TO THE TOP 4'-6", APPROVED BY THE PROJECT ARBORIST, AND DONE BY HAND METHODS ONLY. UNDER NO CIRCUMSTANCES SHALL SOILS BE EXCAVATED FROM WITHIN THE RLOD OF RETAINED TREES.

**1 SOIL AMENDMENT DETAILS**  
 1 1/2" = 1'-0"

**2 SOIL AMENDMENT DIAGRAM**  
 1" = 40'-0"



**MERCER ISLAND HOUSE: CASCADE**

6838 96th Ave SE  
 Mercer Island, WA 98040  
 SUBMITTAL

**100% CONSTRUCTION DOCUMENTS**

FEBRUARY 24, 2023

**REVISIONS**

No.	Description	Date
1	Building Permit Resubmittal	10/27/2022

Drawn: JM / SL / CA / SM  
 Checked: JM / SL / CA  
 MJH Proj No.: A20.0085.00  
 Issue Date: FEBRUARY 24, 2023

**PLANTING SCHEDULE, DETAILS & NOTES L605**

## GENERAL NOTES

- IT IS THE INTENT OF THE CONTRACT DOCUMENTS THAT ALL WORK SHALL CONFORM TO THE APPLICABLE AND LATEST REQUIREMENTS OF THE NATIONAL, STATE AND LOCAL BUILDING CODES, AS WELL AS ALL RULES AND REGULATIONS OF JURISDICTIONS HAVING AUTHORITY.
- PRIOR TO COMMENCEMENT OF ANY PORTION OF THE WORK, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES NOTED AMONG OR BETWEEN THE CONTRACT DOCUMENTS, OWNER-PROVIDED INFORMATION, SITE CONDITIONS, MANUFACTURER RECOMMENDATIONS, OR CODES, REGULATIONS OR RULES OF JURISDICTIONS HAVING AUTHORITY.
- PRIOR TO THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE CONTRACT DOCUMENTS, OWNER-PROVIDED INFORMATION AND SITE CONDITIONS, INCLUDING TAKING FIELD MEASUREMENTS AS NECESSARY.
- ALL DIMENSIONS OR EXISTING WORK MUST BE VERIFIED PRIOR TO COMMENCEMENT OF WORK.
- SITE INFORMATION CONTAINED HEREIN, INCLUDING, BUT NOT LIMITED TO, DIMENSIONS AND LOCATIONS OF EXISTING UTILITIES AND STRUCTURES, IS BASED UPON THE SURVEY AND IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THE ARCHITECT TAKES NO RESPONSIBILITY FOR ITS ACCURACY.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES. CARE SHOULD BE TAKEN TO AVOID DAMAGE TO OR DISTURBANCE OF EXISTING UTILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL BRACING AND SHORING DURING CONSTRUCTION.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL GOVERNMENTAL PERMITS, FEES, LICENSES AND INSPECTIONS NECESSARY FOR PROPER EXECUTION AND COMPLETION OF WORK.
- THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE REQUIRED BY ALL.
- ALL DIMENSIONS ARE TO FACE OF SHEATHING OR FACE OF CONCRETE OR CENTERLINE OF COLUMNS UNLESS NOTED OTHERWISE. CONTACT ARCHITECT FOR CLARIFICATIONS.
- DIMENSIONS NOTED AS "CLEAR" OR "CLR" INDICATE CLEAR DISTANCES BETWEEN FINISHES.
- PROVIDE NEAT CUT WHERE UTILITIES PENETRATE RATED WALL AND FLOOR ASSEMBLIES. SEAL WITH NON-COMBUSTIBLE MATERIAL IMPERVIOUS TO THE PASSAGE OF SMOKE.
- ACCESS WAYS TO RESIDENCES AROUND THE PROJECT SITE MUST BE MAINTAINED AND KEPT CLEAR. ACCESS TO RESIDENTIAL PARKING MUST BE KEPT CLEAR.
- DRAWINGS INDICATE LOCATION, DIMENSIONS, REFERENCE, AND TYPICAL DETAIL FOR CONSTRUCTION. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK, SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWINGS. FOR CONDITIONS NOT ILLUSTRATED, NOTIFY ARCHITECT FOR CLARIFICATION AND/OR SIMILAR DETAIL.
- THESE DRAWINGS ARE DIVIDED INTO SECTIONS FOR CONVENIENCE ONLY. CONTRACTOR, SUBCONTRACTORS, VENDORS AND MATERIAL SUPPLIERS SHALL REFER TO ALL RELEVANT SECTIONS IN BIDDING AND PERFORMING THEIR WORK AND SHALL BE RESPONSIBLE FOR ALL ASPECTS OF THEIR WORK REGARDLESS OF WHERE THE INFORMATION OCCURS ON THE DRAWINGS.
- CONTRACTOR SHALL PROVIDE STRUCTURAL BACKING/BLOCKING FOR ALL WALL MOUNTED FIXTURES, FINISHES AND EQUIPMENT, AND FOR ALL HANGING FIXTURES, BLINDS, ETC.
- THE DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.

## ABBREVIATIONS

ABBREVIATIONS		NOTE: ABBREVIATIONS NOTED IN THE DRAWINGS THAT ARE FOLLOWED BY A MODIFIER SUCH AS "-1", "-A" ARE FURTHER DEFINED IN THE SPECIFICATIONS SECTION ASSOCIATED WITH THE MATERIAL OR SYSTEM ASSEMBY AS NOTED. REFERENCE FINISH LEGEND A070	
ABV	ABOVE	FT	FOOT, FEET
ACIP	ARCHITECTURAL CAST-IN-PLACE CONCRETE	FURN	FURNITURE
ADJ	ADJUSTABLE	GA	GAUGE
AFF	ABOVE FINISH FLOOR	GAL	GALLON
AL	ALUMINUM	GALV	GALVANIZED
ALT	ALTERNATE	GC	GENERAL CONTRACTOR
APPROX	APPROXIMATE	GFRG	GLASS FIBER REINFORCED CONCRETE
ARCH	ARCHITECTURAL (TECT)	GWB	GYPSUM WALL BOARD
AV	AUDIO VISUAL	GYP	GYPSUM
AVG	AVERAGE	HOW	HARDWARE
		HEX	HEXAGONAL
BLDG	BUILDING	HM	HOLLOW METAL
BLW	BELOW	HO	HOLD OPEN
BO	BOTTOM OF	HORIZ	HORIZONTAL
BR	BEDROOM	HR	HOUR
		HSS	HOLLOW STRUCTURAL SECTION
C	CHANNEL STEEL MEMBER	HT	HEIGHT
CIP	CAST-IN-PLACE	HVAC	HEATING/VENTILATION/AIR CONDITIONING
CJ	CONTROL JOINT	HW	HOT WATER
CL	CENTERLINE	HWY	HIGHWAY
CLG	CEILING		
CLR	CLEAR	IBC	INTERNATIONAL BUILDING CODE
CMU	CONCRETE MASONRY UNIT	ID	INSIDE DIAMETER
CONC	CONCRETE	IN	INCHES
CONF	CONFERENCE	INCL	INCLUDE(D), INCLUDING, INCLUSIVE
CONT	CONTINUOUS	INSUL	INSULATION
COORD	COORDINATE	INT	INTERIOR
CTR	CENTER	JAN	JANITOR
CW	CURTAIN WALL, COLD WATER		
		K	100 POUNDS (KIP)
D	DEPTH	KIT	KITCHEN
DBL	DOUBLE	KSI	KIPS PER SQUARE INCH
DEMO	DEMOLITION	KW	KILOWATTS
DEPT	DEPARTMENT		
DET	DETAIL	L	ANGLE STEEL MEMBER
DIA	DIAMETER	LAB	LABORATORY
DIAG	DIAGONAL	LAV	LAVATORY
DIM	DIMENSION	LB	POUNDS
DN	DOWN	LF	LINEAR FEET
DS	DOWNSPOUT	LH	LEFT HAND
DWG	DRAWING	LN	LINEAL
DWR	DRAWER	LLH	LONG LEG HORIZONTAL
		LLV	LONG LEG VERTICAL
(E)	EXISTING	MAX	MAXIMUM
E	EAST	MBR	MASTER BEDROOM
EA	EACH	MDF	MEDIUM DENSITY FIBERBOARD
EJ	EXPANSION JOINT	MDO	MEDIUM DENSITY OVERLAY
EL	ELEVATION	MECH	MECHANICAL
ELEC	ELECTRIC(AL)	MEZZ	MEZZANINE
ELEV	ELEVATOR	MFR	MANUFACTURER
EQ	EQUAL	MIN	MINIMUM, MINUTE(S)
EXT	EXTERIOR	MISC	MISCELLANEOUS
		MO	MASONRY OPENING
FA	FIRE ALARM	N	NORTH
FACP	FIRE ALARM CONTROL PANEL	NC	NOISE CRITERIA
FAPB	FIRE ALARM PULL BOX	NIC	NOT IN CONTRACT
FD	FLOOR DRAIN	NOM	NOMINAL
FDC	FIRE DEPARTMENT CONNECTION	NTS	NOT TO SCALE
FEC	FIRE EXTINGUISHER CABINET		
FEXT	FIRE EXTINGUISHER	OC	ON CENTER
FF	FINISHED FLOOR	OD	OUTSIDE DIAMETER
FHC	FIRE HOSE CABINET	OH	OPPOSITE HAND
FIN	FINISH	OHCD	OVERHEAD COILING DOOR
FO	FACE OF	OHCS	OVERHEAD COILING SHUTTER
FOF	FACE OF FINISH	OHMM	ORDINARY HIGH WATER MARK
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR	OPP	OPPOSITE
FOIO	FURNISHED BY OWNER INSTALLED BY OWNER	ORD	OVERFLOW ROOF DRAIN
FRT	FIRE RETARDANT TREATED (INTERIOR)		
FS	FIRE SPRINKLER		
		OTS	OPTEN TO STRUCTURE
		PCF	POUNDS PER CUBIC FOOT
		PD	PLANTER DRAIN
		PERF	PERFORATE(D)
		PL	PLATE
		PREFAB	PREFABRICATED
		PREFIN	PREFINISHED
		PSF	POUNDS PER SQUARE FOOT
		PSI	POUNDS PER SQUARE INCH
		PT	POINT, POST TENSIONED, PRESSURE TREATED
		PVC	POLYVINYL CHLORIDE
		PVDF	FLUOROPOLYMER COATING
		QTY	QUANTITY
		RCP	REFLECTED CEILING PLAN
		REBAR	REINFORCING BAR
		REF	REFERENCE
		REQD	REQUIRED
		REV	REVISED, REVISION
		RH	RIGHT HAND, ROOF HATCH
		RM	ROOM
		RO	ROUGH OPENING
		ROW	RIGHT-OF-WAY
		RR	RESTROOM
		S	SOUTH
		SAM	SELF ADHERED MEMBRANE
		SCHED	SCHEDULE
		SECT	SECTION
		SF	SQUARE FOOT
		SIM	SIMILAR
		SOG	SLAB-ON-GRADE
		SOHD	SECTIONAL OVERHEAD DOOR
		SPEC	SPECIFICATION
		SS	STAINLESS STEEL
		ST	STAIR, STREET
		STC	SOUND TRANSMISSION CLASS
		STOR	STORAGE
		STRUCT	STRUCTURE (AL)
		STS	SILICONE TRANSITION STRIP
		T&G	TONGUE AND GROOVE
		TEL	TELEPHONE
		TEMP	TEMPORARY, TEMPERATURE
		TO	TOP OF
		TOC	TOP OF CONCRETE
		TOP	TOP OF PARAPET
		TOPO	TOPOGRAPHIC MAP
		TOS	TOP OF STEEL
		TOW	TOP OF WALL
		TPO	THERMOPLASTIC POLYOLEFIN
		TYP	TYPICAL
		UL	UNDERWRITER'S LABORATORY
		UNFIN	UNFINISHED
		UNO	UNLESS NOTED OTHERWISE
		UV	ULTRAVIOLET
		V	VOLT
		VERT	VERTICAL
		VG	VERTICAL GRAIN
		VIF	VERIFY IN FIELD
		VOL	VOLUME
		VTR	VENT THROUGH ROOF
		W	WEST, WIDE
		WC	WATER CLOSET
		WRB	WEATHER RESISTIVE BARRIER

## SYMBOLS LEGEND

	GRAPHIC DRAWING SCALE
	View Title DRAWING NUMBER & TITLE 1/8" = 1'-0"
	View Title DRAWING NUMBER, REFERENCE SHEET & TITLE 1/8" = 1'-0"
	NORTH ARROW NORTH
	DETAIL NUMBER OVER SHEET NUMBER
	BUILDING SECTION
	WALL SECTION
	EXTERIOR ELEVATION
	INTERIOR ELEVATION
	VERTICAL DATUM, WORKPOINT
	ROOM IDENTIFICATION
	DOOR IDENTIFICATION
	ABOVE, BELOW OR HIDDEN
	GRID LINE
	WALL TYPE, (REF ASSEMBLY SHEETS)
	WINDOW / STOREFRONT TYPE, REF SHEET A050
	TOILET ACCESSORY IDENTIFICATION
	KEYNOTE - EXTERIOR/ INTERIOR MATERIAL

## MATERIALS LEGEND

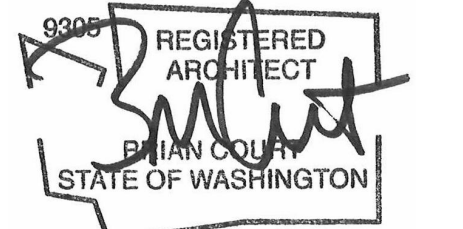
	NATIVE SOIL
	GRAVEL (SCALE VARIES)
	CONCRETE
	GYPSUM WALLBOARD
	EXISTING ELEMENT CUT IN VIEW
	BATT INSULATION
	RIGID INSULATION
	SEMI-RIGID MINERAL WOOL INSULATION
	SPRAY FOAM INSULATION
	ACOUSTIC CEILING PANEL
	PLYWOOD SHEATHING
	GYPSUM SHEATHING
	STEEL
	ALUMINUM
	SOLID WOOD BLOCKING
	WOOD FRAMING, CONTINUOUS WOOD
	WOOD TRIM
	GLULAM

**MILLER HULL**

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Polson Building  
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Seattle, WA 98104

Phone: 206.682.6837  
Contact: Name

STAMP



**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
MERCER ISLAND, WA 98040

SUBMITTAL

**100% CONSTRUCTION DOCUMENTS**

FEBRUARY 24, 2023

REVISIONS

No.	Description	Date

Drawn: AN  
Checked: AN  
MJH Proj No.: A20.0085.00

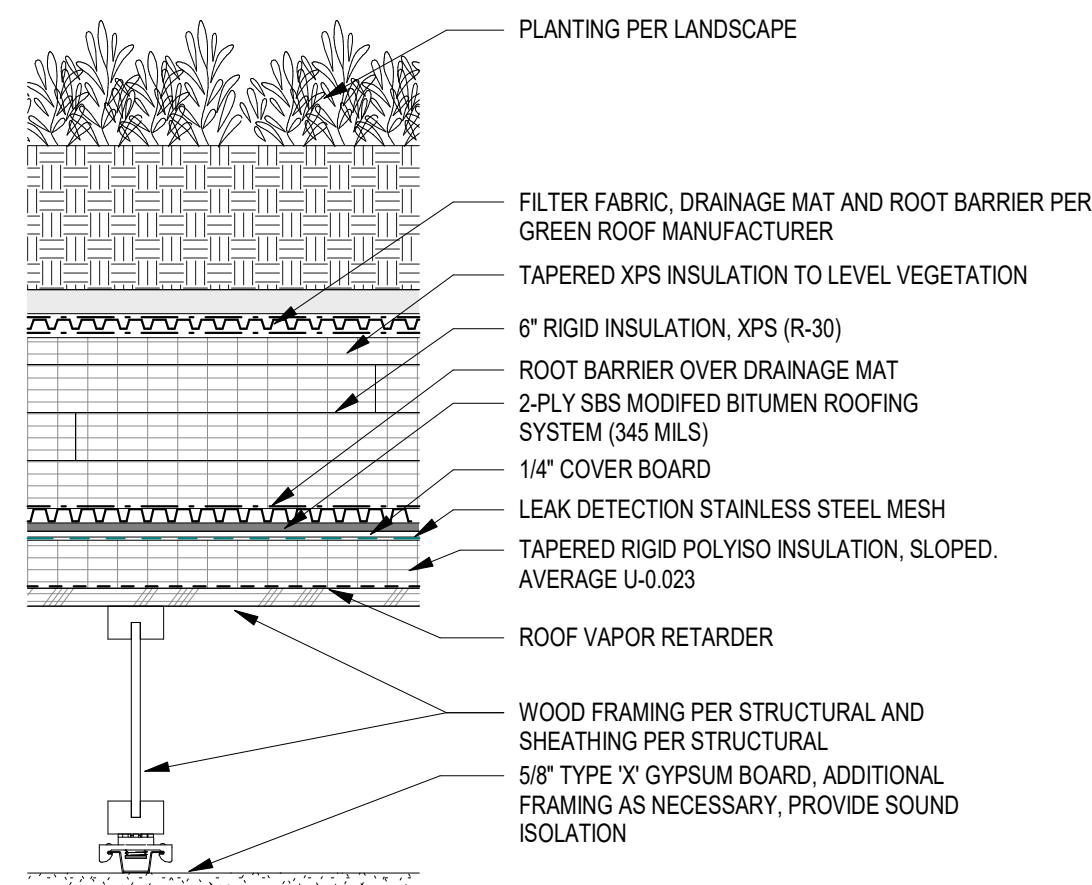
Issue Date: FEBRUARY 24, 2023

SHEET

**LEGENDS, NOTES & ABBREVIATIONS A001**

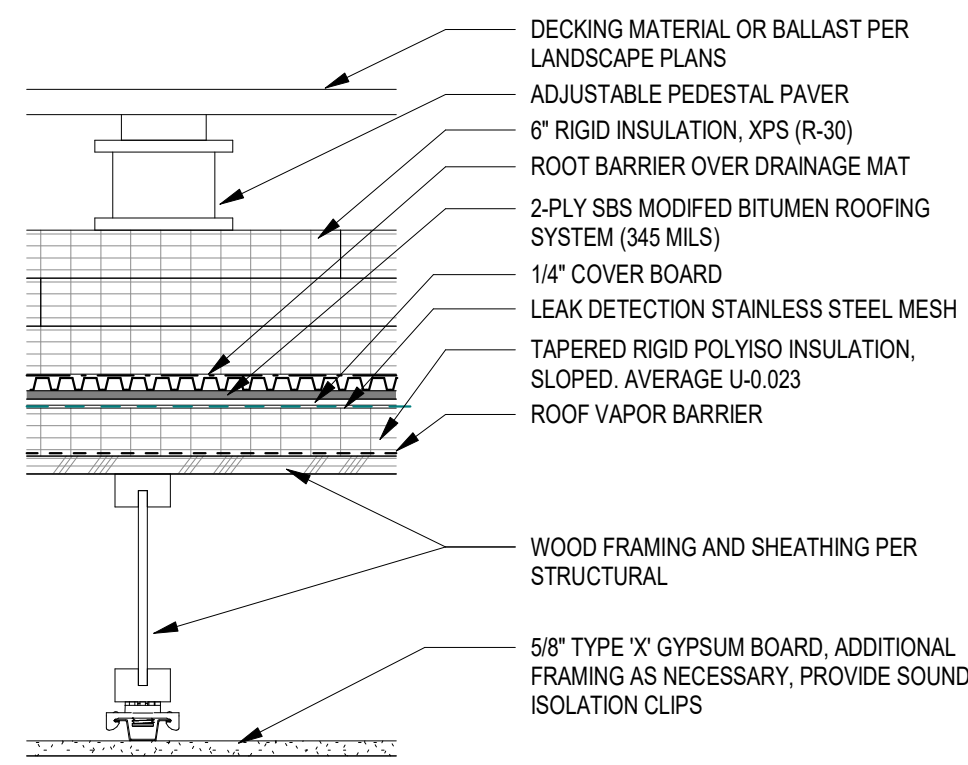


## ROOF ASSEMBLIES



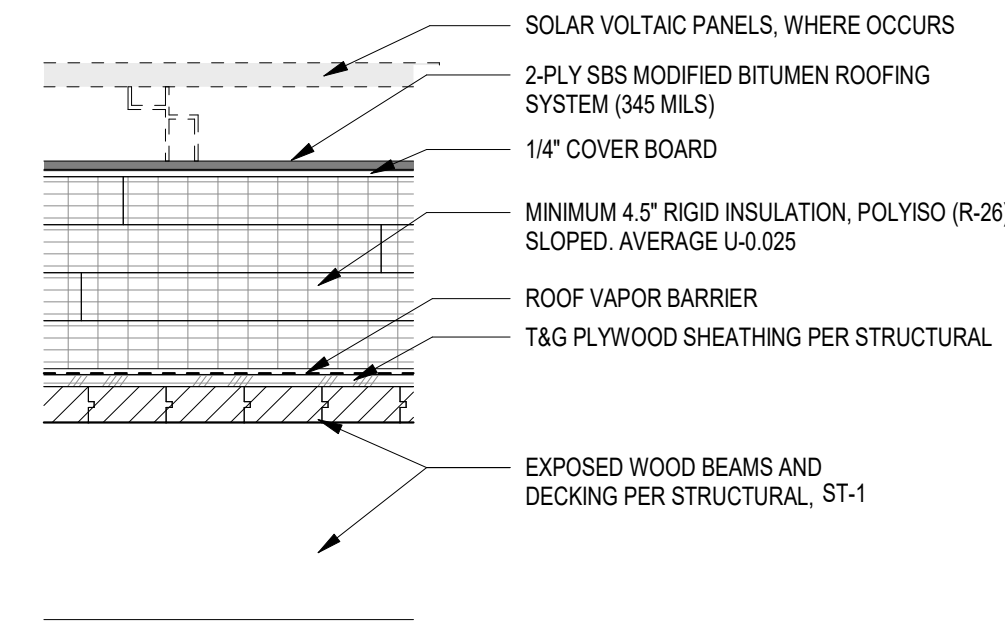
**R1 VEGETATED ROOF**

U VALUE: 0.023  
WSEC TABLE A102.2.6(2)



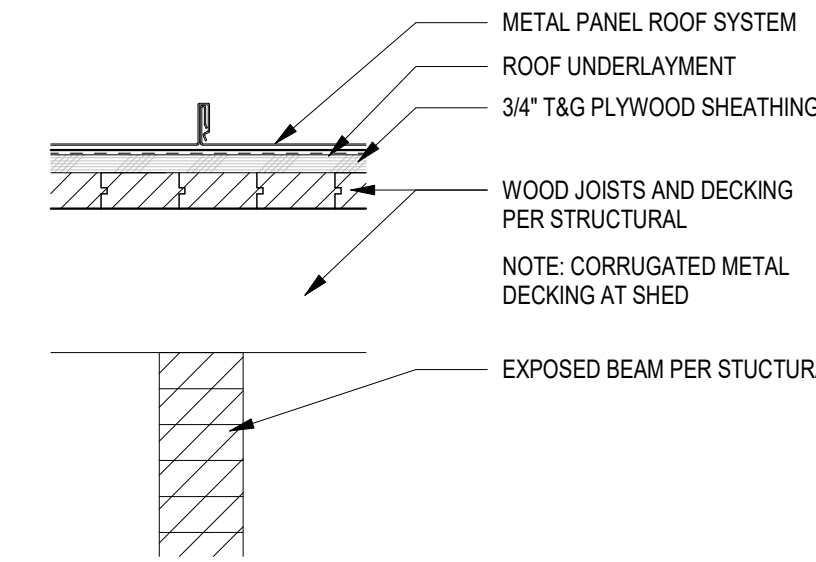
**R2 PROTECTED MEMBRANE ROOF**

U VALUE: 0.023  
WSEC TABLE A102.2.6(2)



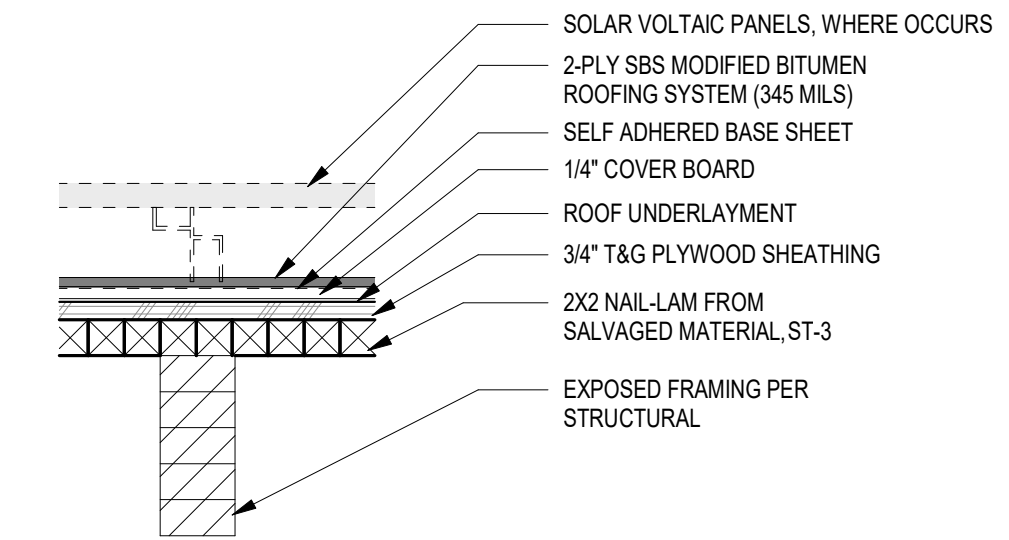
**R3 MEMBRANE ROOF**

U VALUE: 0.025  
WSEC TABLE A102.2.6(1)



**R4 METAL PANEL - UNINSULATED**

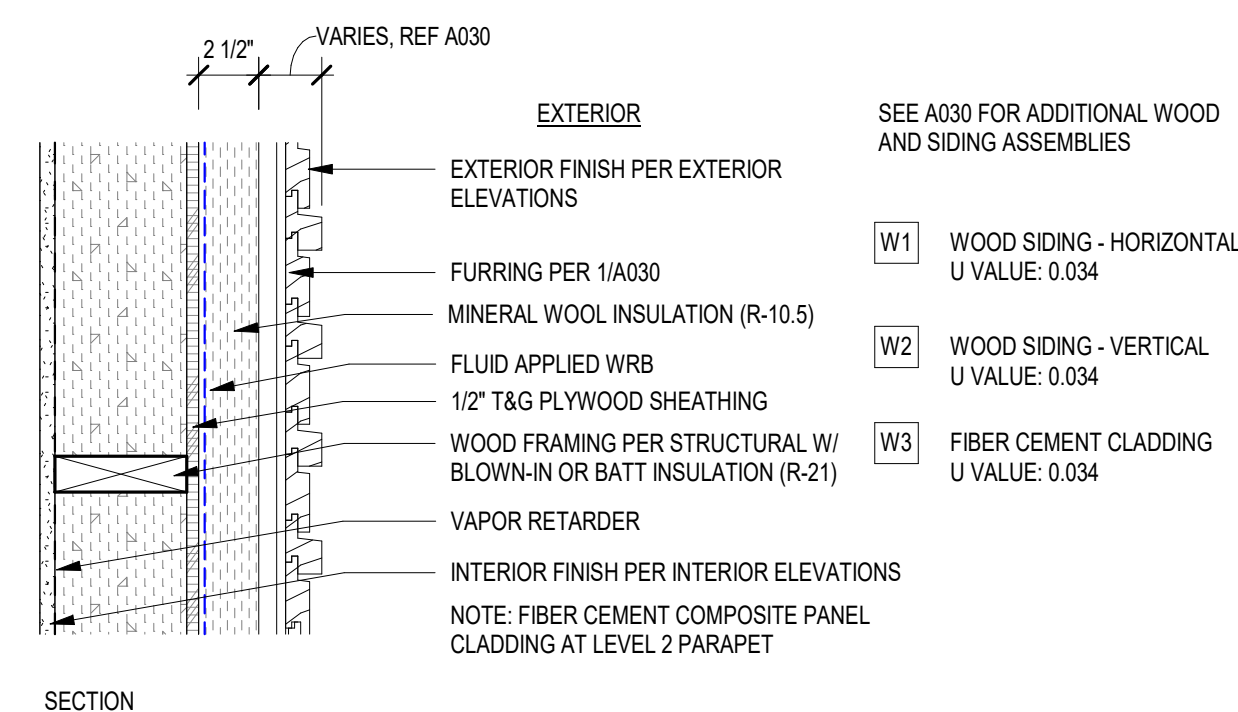
U VALUE: N/A



**R5 MEMBRANE - UNINSULATED**

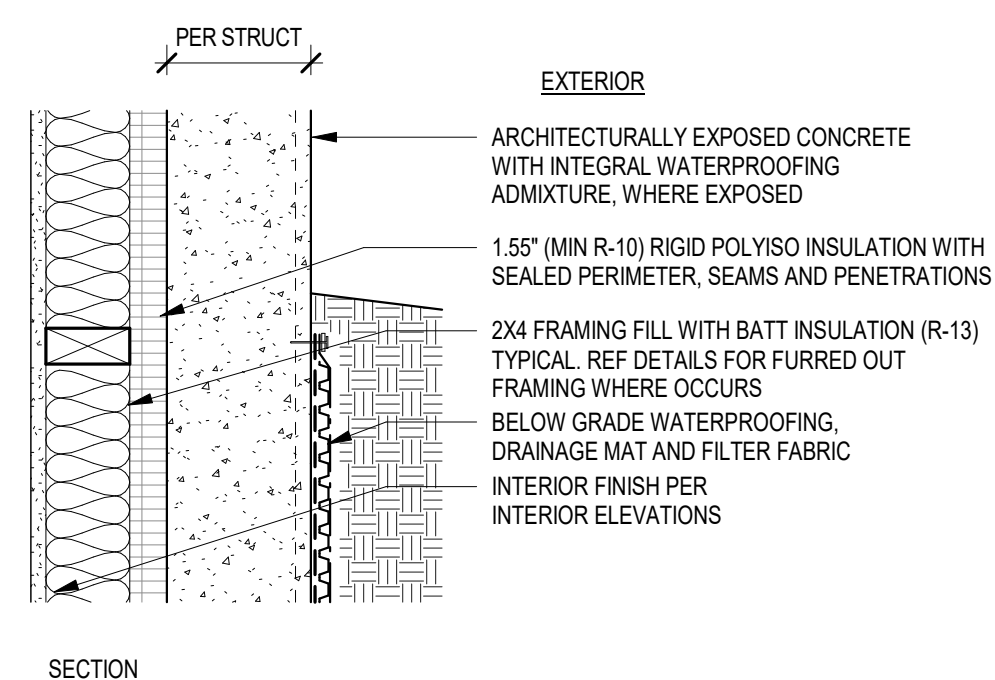
U VALUE: N/A

## EXTERIOR WALL ASSEMBLIES



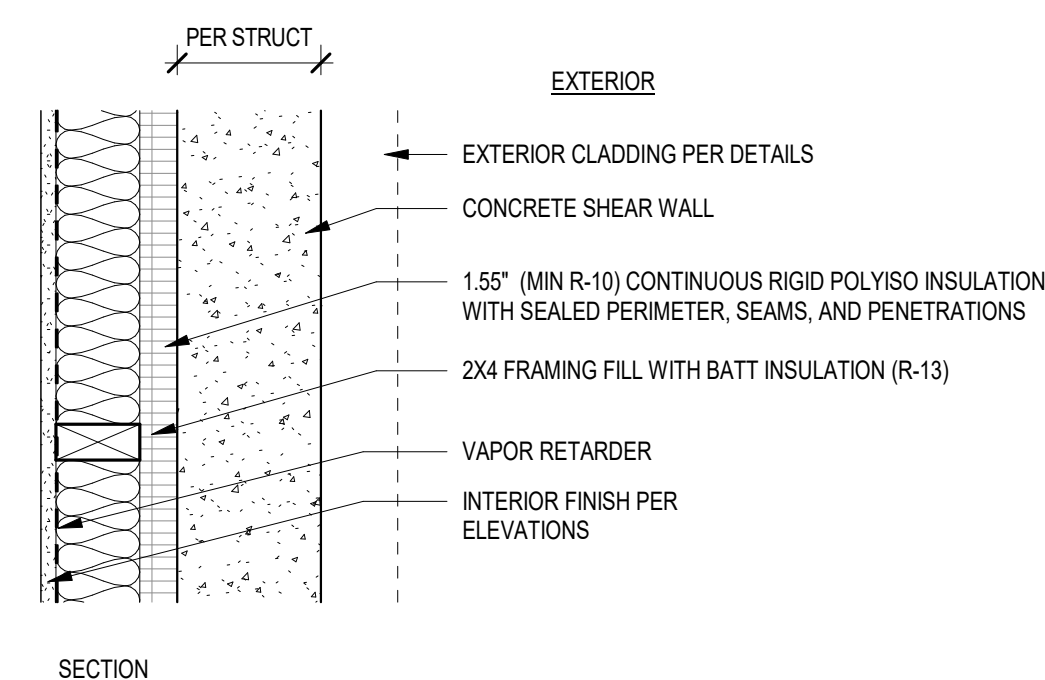
**W1 2X6 RAINSCREEN**

U VALUE: 0.034  
WSEC TABLE A103.3.1(5)



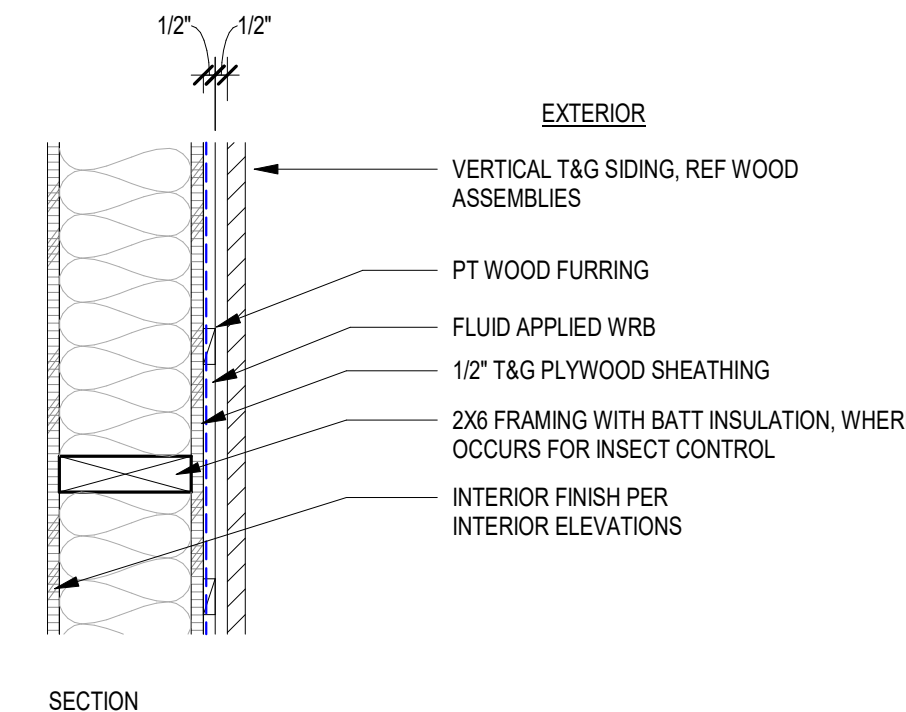
**W4 BELOW GRADE CONC. WALL**

U VALUE: 0.040  
COMPLIES BASED ON R402.1.1 FOOTNOTE C 10/15/21 + 5TB



**W5 CONC. WALL EXT. CLADDING**

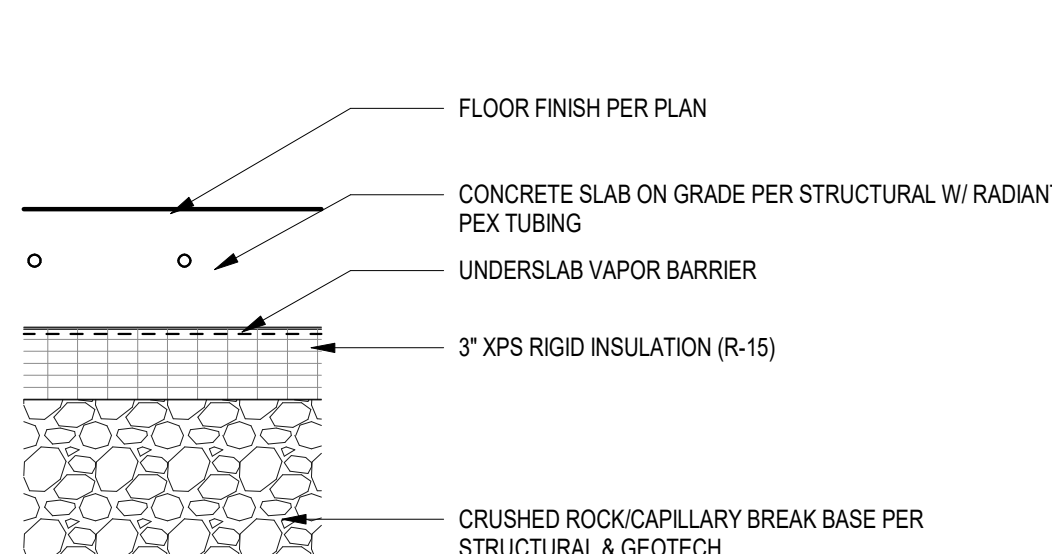
U VALUE: 0.045  
WSEC TABLE A103.3.1(2)



**W6 WOOD SIDING - UNINSULATED**

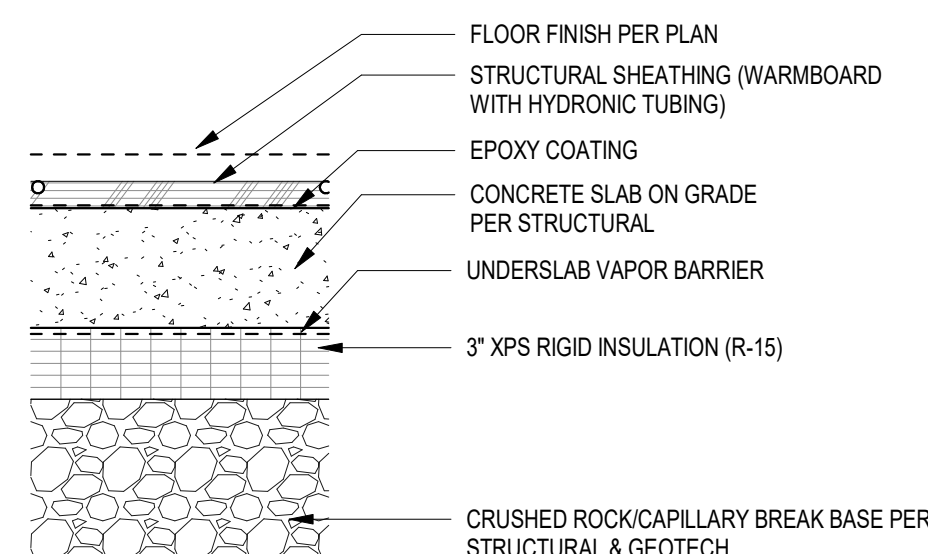
U VALUE: N/A

## FLOOR ASSEMBLIES



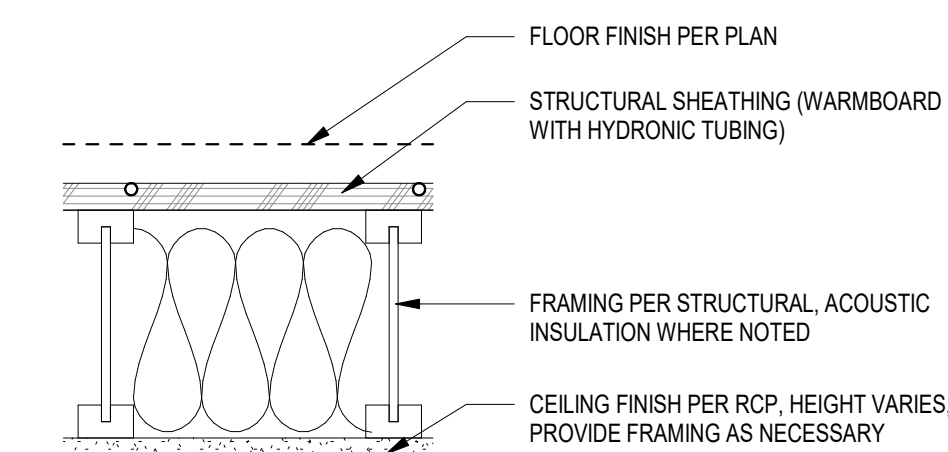
**F1 CONCRETE SLAB-ON-GRADE**

F-0.44  
WSEC TABLE A106.1 FOR HEATED SLAB



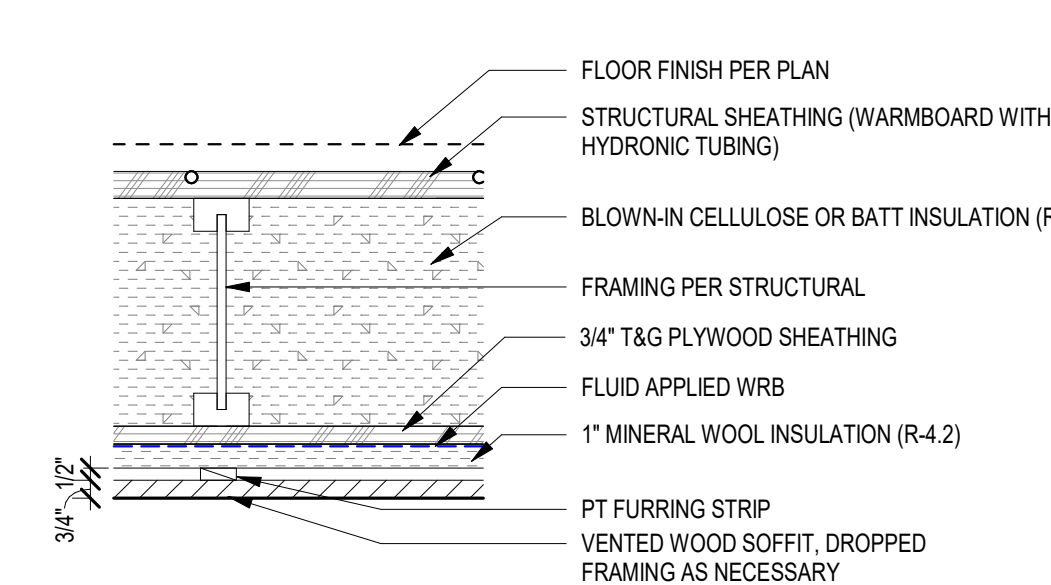
**F2 CONCRETE SLAB-ON-GRADE**

F-0.44  
WSEC TABLE A106.1 FOR HEATED SLAB



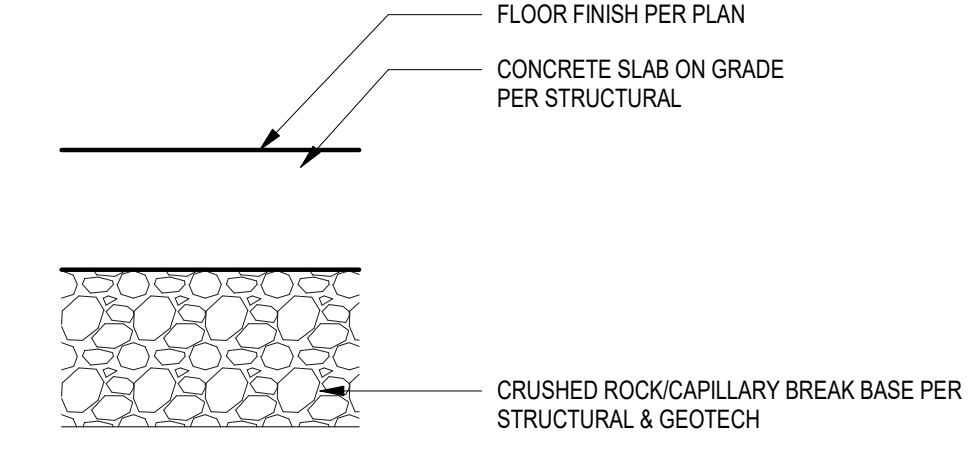
**F3 WOOD FRAMED FLOOR**

U VALUE: N/A



**F4 WOOD FRAMED FLOOR / SOFFIT**

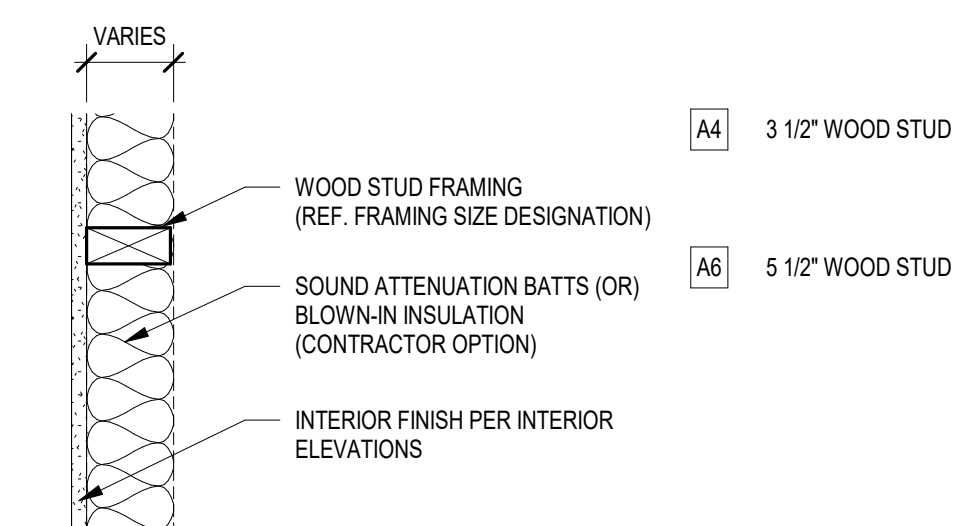
U VALUE: 0.022  
CUSTOM CALCULATION BASED ON WSEC A105



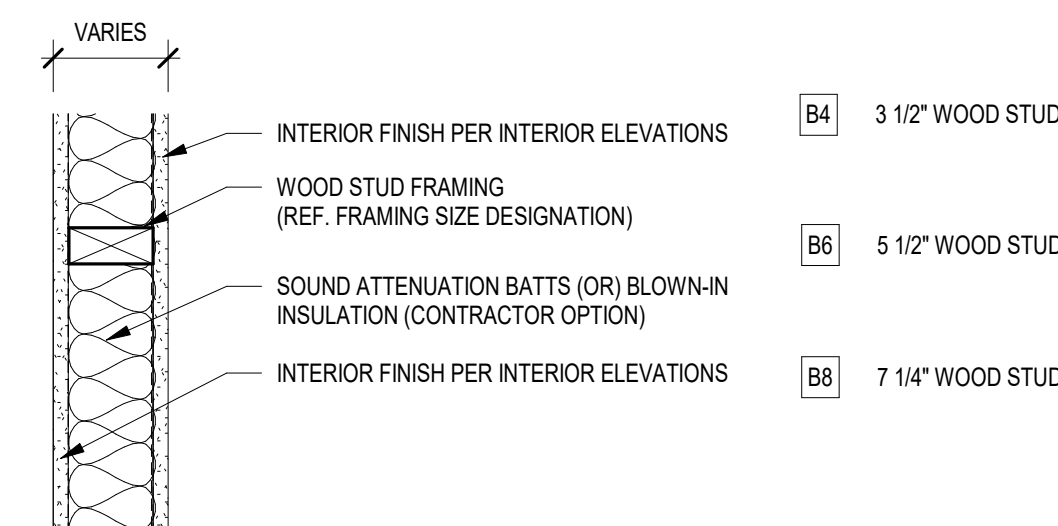
**F5 CONCRETE SOG - UNINSULATED**

U VALUE: N/A

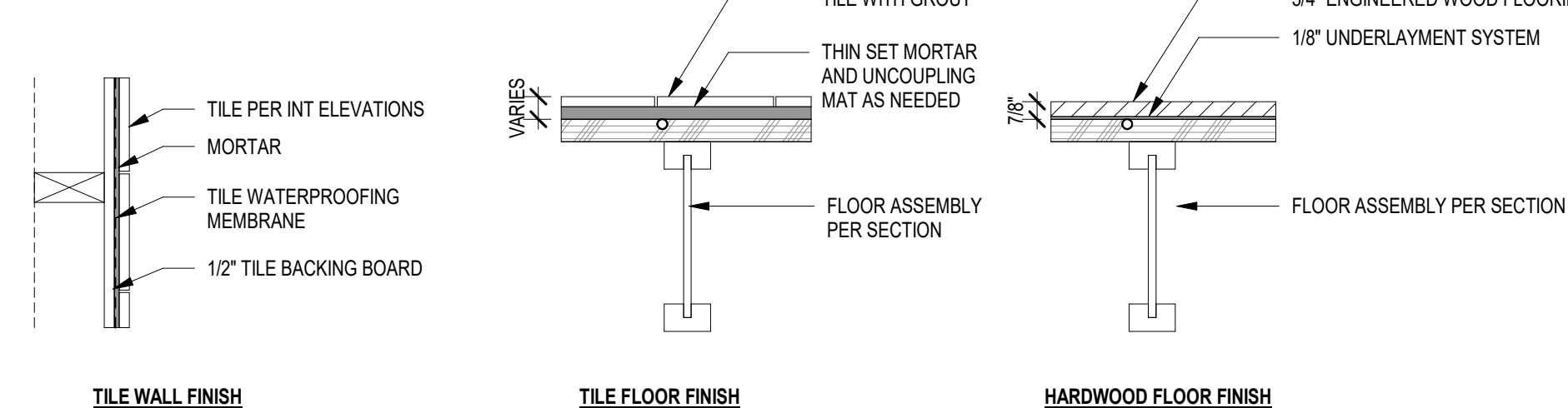
## INTERIOR PARTITIONS



**A WOOD STUD FURRING WALL**



**B WOOD STUD WALL**



**INTERIOR FINISH ASSEMBLIES**

### ASSEMBLY NOTES

- WALL & PARTITION TYPE SYMBOLS ARE NOTED ON THE FLOOR PLANS.
- ALL GYPSUM BOARD TO BE 5/8" TYPE 'X', UNO, WATER-RESISTANT GWB WITH CORROSION RESISTANT SCREWS TO BE USED IN PLACE OF STANDARD GWB AT WALLS AND CEILINGS IN ALL WET/HUMID AREAS INCLUDING, BUT NOT LIMITED TO: BATHROOMS, MECH/ELEC ROOMS, AND STORAGE ROOMS.
- REFER TO STRUCTURAL FOR CONCRETE SLAB DESIGN, PLYWOOD SHEATHING, STRUCTURAL FRAMING AND FASTENING.
- BLOCKING IS REQUIRED AT THE FOLLOWING LOCATIONS: WALL MOUNTED CABINETS, ACCESSORIES, EQUIPMENT, AV EQUIPMENT LOCATIONS, DOOR STOPS, HOLD-OPENS, TOILETS & ACCESSORIES AND OTHER LOCATIONS AS REQUIRED BY MANUFACTURER SPECIFICATIONS OR INDUSTRY STANDARDS REFERENCED.
- FIRE BLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE FIRE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND THE ROOF SPACE PER R302.11.
- INSTALL INSULATION SO THAT MANUFACTURER'S R-VALUE MARK IS READILY OBSERVABLE UPON INSPECTION.
- FOR BATT INSULATION, FILL CAVITIES COMPLETELY UNLESS NOTED OTHERWISE. FRICTION FIT INSULATION INTO STUD CAVITIES. DO NOT COMPRESS INSULATION.
- FOR RIGID AND SEMI-RIGID INSULATION, INSTALL INSULATION WITH ADHESIVE OR STICK PINS ONLY UNLESS NOTED OTHERWISE. DO NOT BRIDGE INSULATION WITH CONDUCTIVE ELEMENTS SUCH AS METAL FURRING OR FRAMING.
- AIR BARRIER COMPONENTS IN EXTERIOR ASSEMBLIES SHALL BE CONTINUOUS AND SHALL BE SEALED TO ADJACENT COMPONENTS AT TRANSITIONS. REFER TO THE DETAILS FOR REQUIREMENTS AT AIR BARRIER TRANSITIONS.
- REFERENCE FLOOR PLANS, REFLECTED CIA1715 PLANS, AND INTERIOR ELEVATIONS FOR FINISH INFORMATION.
- SHED ASSEMBLIES ARE NOTED ON SHEET.

STAMP



## MERCER ISLAND HOUSE: CASCADE

6838 96TH AVE SE  
MERCER ISLAND, WA 98040

SUBMITTAL

## 100% CONSTRUCTION DOCUMENTS

FEBRUARY 24, 2023

REVISIONS

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SHEET

**DOOR SCHEDULE**

NO.	TYPE	DOOR			MATERIAL	THICKNESS	FRAME MATERIAL	PASSAGE/PRIVACY	HARDWARE NOTES	COMMENTS
		WIDTH	HEIGHT	GLASS						
001	G1	3'-0"	3'-6 3/4"	WD	1 3/4"	AL-HPC	PASSAGE	GATE LATCH		
002	G2	3'-0"	3'-1"	MP-1	1 3/4"	AL-HPC	PASSAGE	GATE LATCH		
003	G3	2'-5"	3'-7"	WWM-2	1 3/4"	WD	PASSAGE	GATE LATCH		
100.0	FG	3'-3 1/2"	9'-1"	AL	1 3/4"	AL	ENTRY		MODULE PER FRAME ELEVATIONS	
100.2	FG	3'-3 1/2"	8'-11 1/2"	AL	1 3/4"	AL	ENTRY		MODULE PER FRAME ELEVATIONS	
100.3	B	3'-0"	9'-0"	WD	1 3/8"	WD	PASSAGE	POCKET DOOR	INCORPORATED INTO CASEWORK	
100.4	B	3'-0"	9'-0"	WD	1 3/8"	WD	PASSAGE	POCKET DOOR	INCORPORATED INTO CASEWORK	
102.0	A	3'-0"	7'-0"	WD-PNT	1 3/4"	WD-PNT	PASSAGE			
103.0	A	3'-0"	7'-0"	WD-PNT	1 3/4"	WD-PNT	PASSAGE			
104.0	A	2'-4"	7'-0"	WD-PNT	1 3/4"	WD-PNT	PRIVACY			
104.1	C2	2'-4"	6'-10 1/4"	GL	1/2"	GL	PASSAGE	SHOWER DOOR HARDWARE		
105.0	FG	3'-3 1/2"	9'-1"	AL	1 3/4"	AL	ENTRY			
106.0	A	2'-6"	7'-0"	WD	1 3/4"	WD	PRIVACY			
110.0	A	3'-0"	7'-0"	WD-PNT	1 3/4"	WD-PNT	PASSAGE		COORDINATE WITH ELEVATOR REQUIREMENTS	
200.0	A	3'-0"	8'-3 1/2"	WD	1 3/4"	WD	PRIVACY			
201.0	A	2'-8"	7'-0"	WD-PNT	1 3/4"	WD-PNT	PRIVACY			
201.1	C1	2'-8"	8'-4 1/8"	GL	1/2"	GL	PASSAGE	SHOWER DOOR HARDWARE		
201.2	C1	2'-8"	8'-5 3/4"	GL	1/2"	GL	PASSAGE	SHOWER DOOR HARDWARE		
202.0	FG	3'-1"	8'-3 1/2"	AL	1 3/4"	AL	PASSAGE		MODULE PER FRAME ELEVATIONS	
203.0	A	3'-0"	6'-10 1/2"	WD	1 3/4"	WD	PRIVACY		INCORPORATED INTO CASEWORK	
203.1	A	2'-6"	7'-0"	WD-PNT	1 3/4"	WD-PNT	PRIVACY			
203.2	A	2'-4"	7'-0"	WD-PNT	1 3/4"	WD-PNT	PASSAGE			
203.3	C3	2'-7 5/8"	5'-3 3/4"	GL	1/2"	GL	PASSAGE			
204.0	A	3'-0"	7'-0"	WD-PNT	1 3/4"	WD-PNT	PRIVACY			
204.1	A	2'-6"	7'-0"	WD-PNT	1 3/4"	WD-PNT	PRIVACY			
204.2	A	2'-6"	7'-0"	WD-PNT	1 3/4"	WD-PNT	PASSAGE			
204.3	C2	1'-11 1/2"	6'-9 3/4"	GL	1/2"	GL	PASSAGE	SHOWER DOOR HARDWARE		
205.0	A	3'-0"	7'-0"	WD-PNT	1 3/4"	WD-PNT	PASSAGE			
205.1	B	3'-0"	7'-0"	WD-PNT	1 3/8"	WD-PNT	PASSAGE			
206.0	FG	3'-0 1/4"	8'-4 1/8"	AL	1 3/4"	AL	ENTRY		MODULE PER FRAME ELEVATIONS	
210.0	A	3'-0"	7'-0"	WD-PNT	1 3/4"	WD-PNT	PASSAGE		COORDINATE WITH ELEVATOR REQUIREMENTS	
300.0	ENT	3'-0"	7'-6 5/8"	WD	1 3/4"	AL	ENTRY		MODULE PER FRAME ELEVATIONS	
302.0	A	2'-6"	7'-6"	WD-PNT	1 3/4"	WD-PNT	PRIVACY			
310.0	A	3'-0"	7'-0"	WD-PNT	1 3/4"	WD-PNT	PASSAGE		COORDINATE WITH ELEVATOR REQUIREMENTS	
400	BD	6'-0"	7'-0"	WD / STL	2"	WD / STL	ENTRY	PADLOCK	PER DETAILS	
500.0	BFLD	8'-0"	9'-6"	GL / AL	6"	AL	ENTRY	REMOTE CONTOL OPENER	PER DETAILS	
500.1	BD	6'-0"	7'-2"	WD / STL	2 3/4"	WD / STL	ENTRY	PADLOCK	PER DETAILS	

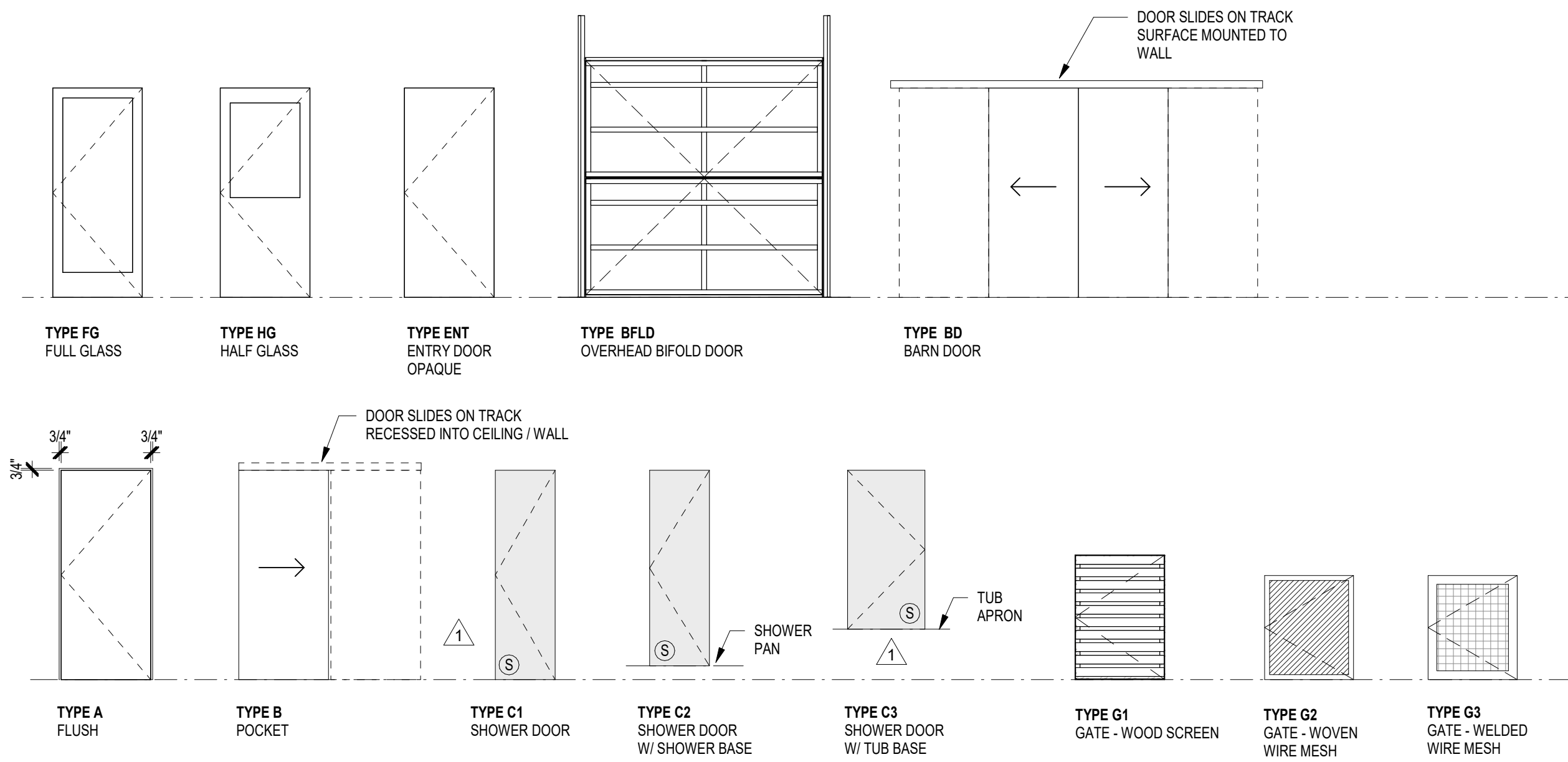
**GENERAL DOOR NOTES**

- ALL VISION GLASS IN DOORS TO BE CLEAR INSULATED LOW-E TEMPERED SAFETY GLASS IN ACCORDANCE WITH R308.4
- SEE FLOOR PLANS FOR DIRECTION OF DOOR SWING.
- REFERENCE FRAME ELEVATION SHEETS A050 FOR DOOR PERFORMANCE REQUIREMENTS OF EXTERIOR GLAZED DOORS. REFERENCE FRAME ELEVATION SHEETS FOR LIFT AND SLIDE DOORS.
- GC TO COORDINATE SECURITY SYSTEM REQUIREMENTS INTEGRAL WITH DOOR HARDWARE.
- FIELD VERIFY ALL ROUGH OPENINGS PRIOR TO FABRICATING FRAMES.
- FIELD VERIFY ALL EXISTING CONDITIONS.
- COORDINATE HARDWARE SELECTION AND FINISH WITH ARCHITECT AND OWNER IN THE FIELD.
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL DOORS TO BE REVIEWED BY ARCHITECT PRIOR TO FABRICATION.

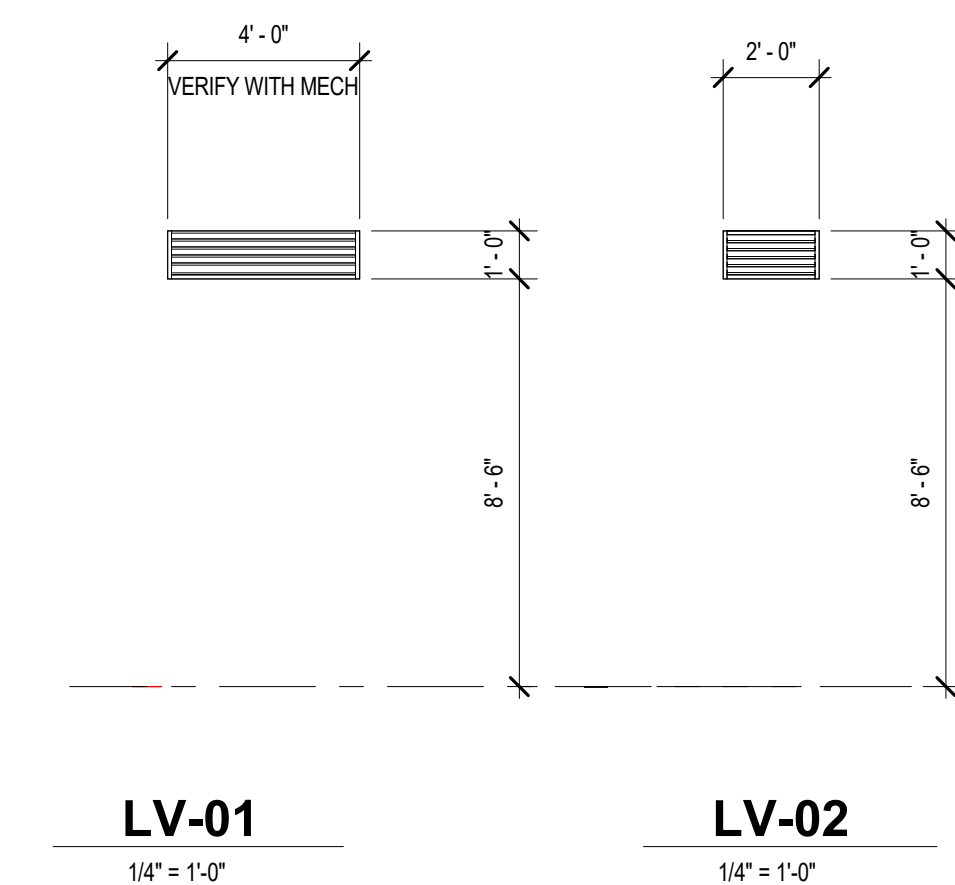
**DOOR & FRAME ABBREVIATIONS**

AL	ALUMINUM
GL	GLASS
HPC	HIGH PERFORMANCE COATING
MP	PERFORATED METAL PANEL
PNT	PAINTED FINISH
WD	WOOD
STL	STEEL
WWM	WELDED WIRE MESH
(S)	SAFETY GLAZING

**DOOR TYPES**



**LOUVER FRAME ELEVATIONS**



**FINISH LEGEND**

**MASTER FINISH LEGEND**

AL-1	05 50 00 - POWDERCOATED ALUMINUM
BB-1	09 72 00 - BULLETIN BOARD
CJ-1	03 30 00 - CONTROL JOINT AT CIP ARCHITECTURAL CONCRETE, CHAMFER STRIP
CONC-1	03 30 00 - CIP ARCHITECTURAL CONCRETE, FORM TIE LOCATIONS TO BE COORDINATED IN SHOP DRAWINGS
CONC-2	03 35 43 - HONED CONCRETE SLAB ON GRADE
CONC-3	03 30 00 - BROOM FINISH
CTOP-1	12 36 00 - ENGINEERED QUARTZ COUNTERTOP, WHITE
CTOP-2	12 36 00 - RECYCLED GLASS AND CEMENT COUNTERTOP, WHITE
CTOP-3	12 36 00 - ENGINEERED QUARTZ COUNTERTOP, GRAY
CTOP-4	12 36 00 - COUNTERTOP, TBD
CTOP-5	12 36 00 - SALVAGED WOOD COUNTERTOP
CTOP-6	12 36 00 - BUTCHER BLOCK COUNTERTOP
FAB-1	12 22 16 - DRAPERY
FAB-2	12 22 16 - DRAPERY, ACOUSTIC
FCP-1	07 46 46 - FIBER CEMENT SIDING
GL-1	08 80 00 - TRIPLE PANE IGU, LOW E COATING
GL-3	08 80 00 - 12" INTERIOR GLAZING - FROSTED
GL-4	08 80 00 - 18" FROSTED GLASS
HP-1	09 97 13 - HIGH PERFORMANCE COATING
MIRR-1	06 40 00 - CLEAR MIRROR
MP-1	05 51 41 - PERFORATED METAL PANEL
PLAST-1	09 26 00 - VENEER PLASTER
PNT-1	09 90 00 - PAINTED GYPSUM BOARD, WHITE
PNT-2	09 90 00 - DOOR PAINT COLOR - TBD
PNT-3	09 90 00 - PAINTED GYPSUM BOARD, CEILING COLOR - TBD
PNT-4	09 90 00 - PAINTED GYPSUM BOARD, WALL COLOR - TBD
PVR-1	32 14 00 - ROOF PAVERS
RS-1	12 24 00 - ROLLER SHADE, MANUAL, LIGHT FILTERING
RS-2	12 24 00 - ROLLER SHADE, MANUAL, BLACKOUT AND LIGHT FILTERING
RS-3	12 24 00 - ROLLER SHADE, AUTOMATED, LIGHT FILTERING
SM-1	07 62 00 - SHEET METAL TRIM, REFERENCE DETAILS. FINISH TO MATCH ADJACENT MATERIAL
SST-1	05 50 00 - STAINLESS STEEL, BEADBLASTED
ST-1	09 93 13 - INTERIOR WOOD FINISH

**MASTER FINISH LEGEND**

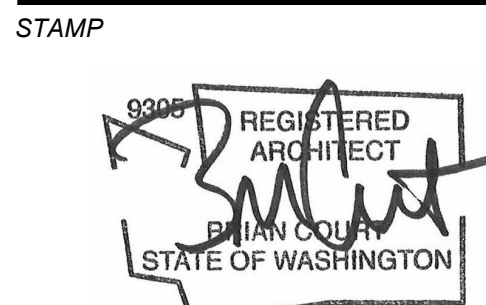
ST-2	09 93 13 - EXTERIOR WOOD FINISH
ST-3	09 93 13 - EXTERIOR WOOD FINISH - WALKING SURFACE
ST-4	09 93 13 - INTERIOR WOOD FINISH - WALKING SURFACE
STL-1	05 00 00 - GALVANIZED STEEL
STL-2	05 05 14 - BLACKENED STEEL
TL-2	09 30 00 - FLOOR TILE, GEOMETRIC MOSAIC
TL-3	09 30 00 - FLOOR TILE, 2X2 MOSAIC
TL-5	09 30 00 - WALL TILE, 2x6 VERTICAL STACKED, BLUE
TL-6	09 30 00 - WALL TILE, 2x6 VERTICAL STACKED, GRAY
TL-7	09 30 00 - WALL TILE, 1x6 MOSAIC RUNNING BOND, WHITE
TL-8	09 30 00 - ACCENT TILE, 6"x6"
TP	10 28 00 - TOILET PAPER HOLDER
TR	10 28 00 - TOWEL ROD
VEG-1	07 55 63 - VEGETATED ROOF
WBASE	06 40 00 - FLUSH WOOD BASE. FINISH FACE TO ALIGN WITH FACE OF GWB ABOVE. PAINT TO MATCH GWB ABOVE. SEE INTERIOR DETAILS FOR ADDITIONAL INFORMATION
WD-1	07 46 23 - HORIZONTAL RIBBED KEBONY SIDING, REF DETAILS AND A030
WD-2	07 46 23 - VERTICAL T&G KEBONY SIDING, REF DETAILS AND A030
WD-3	07 36 23 - HORIZONTAL WOOD KEBONY SLATS OVER STEEL SUPPORTS. STEEL SUPPORTS TO BE PAINTED WITH HIGH PERFORMANCE PAINT, REF DETAILS AND A030
WD-4	07 36 23 - HORIZONTAL WOOD KEBONY SLATS OVER WOOD SUPPORTS, REF DETAILS AND A030
WD-5	07 46 23 - OPEN SLAT WOOD SOFFIT
WD-6	07 46 23 - EXTERIOR WOOD SOFFIT
WD-7	06 40 00 - KEBONY HANDRAIL WITH HP-1 STEEL SUPPORTS
WD-8	06 40 00 - DOUGLAS FIR VENEER CASEWORK
WD-9	06 40 00 - INTERIOR STAIR WOOD HANDRAIL
WD-10	07 46 23 - INTERIOR WOOD SOFFIT
WD-11	06 40 00 - DOUGLAS FIR INTERIOR PANELING
WD-12	06 15 00 - INTERIOR STAIR TREAD
WD-13	06 15 00 - EXTERIOR GLULAM DECKING
WDFL-1	09 64 33 - PRE-ENGINEERED WOOD FLOOR
WRP-1	09 72 00 - WALLPAPER
WTRIM	06 40 00 - DOUGLAS FIR WOOD TRIM
WWM-2	05 50 00 - WELDED WIRE MESH, GALVANIZED

ASSEMBLY TYPE	DIAGRAM	SPECIFICATION
<p><b>WD-1: HORIZONTAL RIBBED SIDING</b> KEBONY CUSTOM PROFILES WITH KEBONY PRS CONCEALED CLIP SYSTEM</p> <p>SEE ASSEMBLY SHEET, EXTERIOR ELEVATIONS &amp; DETAIL SHEETS FOR MORE INFORMATION</p>	<p>VERTICAL FURRING STRIP, PRESSURE TREATED KEBONY PRS LOW PROFILE CLIP CUSTOM PROFILES, ALLOW SLOPE TO DRAIN REFERENCE A010 FOR REST OF ASSEMBLY</p>	07 46 23
<p><b>WD-2: VERTICAL SHIP LAP</b> KEBONY 1X6 CHARACTER SHIP LAP WITH EXPOSED FASTENERS</p> <p>SEE ASSEMBLY SHEET, EXTERIOR ELEVATIONS &amp; DETAIL SHEETS FOR MORE INFORMATION</p>	<p>REFERENCE A010 FOR REST OF ASSEMBLY VERTICAL FURRING STRIP, PRESSURE TREATED HORIZONTAL OR DIAGONAL FURRING STRIP, PRESSURE TREATED KEBONY 1X6 SHIP LAP SS FASTENER, ALIGNED</p>	07 46 23
<p><b>WD-3: HORIZONTAL OPEN JOINT WOOD SCREEN OVER STEEL</b> KEBONY CUSTOM PROFILE FASTENED TO VERTICAL KEBONY FURRING STRIP BOLTED TO STEEL</p>	<p>KEBONY, CUSTOM PROFILE VERTICAL KEBONY STRIP, WIDTH TO MATCH STEEL SUPPORT SPACER MACHINE SCREW AND NUT WITH WEDGE SPACER EVERY 2' FINISH TO MATCH STEEL STAINLESS STEEL FASTENER WITH KEBONY PLUG</p>	07 46 23
<p><b>WD-4: HORIZONTAL OPEN JOINT WOOD SCREEN OVER WOOD</b> KEBONY CUSTOM PROFILE</p>	<p>KEBONY, CUSTOM PROFILE STAINLESS STEEL FASTENER ALIGN WITH SIDING PROFILE</p>	07 46 23
<p><b>WD-5: OPEN JOINT WOOD SOFFIT</b> ALASKAN YELLOW CEDAR W/ EXPOSED FASTENERS</p>	<p>4X8 PER STRUCTURAL STAINLESS STEEL FASTENER 2 1/2" x 2 3/4"</p>	07 46 23
<p><b>FCP-1: FIBER CEMENT PANEL CLADDING</b> FIBER CEMENT PANEL RAINSCREEN W/ EXPOSED FASTENERS</p>	<p>VERTICAL FURRING STRIP, PRESSURE TREATED FIBER CEMENT PANEL REFERENCE A010 FOR REST OF ASSEMBLY</p>	07 46 46

**WOOD / SIDING LEGEND**



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**MERCER ISLAND HOUSE: CASCADE**

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Sheet

**DOORS, LOUVERS & FINISH LEGEND A030**

**GENERAL FRAME ELEVATION NOTES**

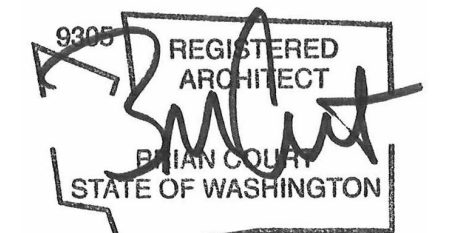
- OVERALL DIMENSIONS SHOWN ARE ROUGH OPENINGS. FIELD VERIFY ALL OPENINGS PRIOR TO FABRICATING FRAMES AND GLAZING UNITS.
- FIELD VERIFY EXISTING OPENINGS WHERE EXISTING WINDOWS ARE TO BE REPLACED.
- SEE SPECIFICATIONS FOR DEPTH OF FRAMES.
- REFERENCE DOOR SCHEDULE ON SHEET A030 FOR DOORS WHERE INDICATED.
- ALL VIEWS FROM EXTERIOR UNLESS NOTED OTHERWISE.
- PROVIDE SAFETY GLAZING AT ALL HAZARDOUS LOCATIONS AS DEFINED IN R308.4

(S) SAFETY GLAZING

**GLAZING PERFORMANCE REQUIRMENTS**

- WHERE NFRC IS IDENTIFIED, PERFORMANCE VALUES ARE BASED ON NFRC CERTIFICATION. LABEL CERTIFICATES SHALL BE PROVIDED.
- UNLESS OTHERWISE NOTED, EXTERIOR GLAZING UNITS SHALL BE INSULATED TRIPLE PANE GLAZING.
- CW ALUMINUM CLAD CURTAIN WALL VENEER (TRIPLE GLAZED)**  
 U-VALUE: 0.16 MAXIMUM, NFRC CERTIFIED  
 SHGC: 0.33 MAXIMUM, NFRC CERTIFIED  
 BLACKCOMB METAL-CLAD, 50MM (BASIS OF DESIGN)
- AW ALUMINUM CLAD WINDOWS (TRIPLE GLAZED)**  
 U-VALUE: 0.16 MAXIMUM, NFRC CERTIFIED  
 SHGC: 0.33 MAXIMUM, NFRC CERTIFIED  
 LOEWEN METAL-CLAD PICTURE/DIRECT SET (BASIS OF DESIGN)
- OW GLAZED IN OPERABLE WINDOW - TILT/TURN (TRIPLE GLAZED)**  
 U-VALUE: 0.17 MAXIMUM, NFRC CERTIFIED  
 SHGC: 0.33 MAXIMUM, NFRC CERTIFIED  
 BLACKCOMB METAL-CLAD TILT/TURN (BASIS OF DESIGN)
- OW-A GLAZED IN OPERABLE WINDOW - AWNING (TRIPLE GLAZED)**  
 U-VALUE: 0.18 MAXIMUM, NFRC CERTIFIED  
 SHGC: 0.25 MAXIMUM, NFRC CERTIFIED  
 LOEWEN METAL-CLAD AWNING, ROTO CRANK, FIXED SCREEN (BASIS OF DESIGN)
- OW-C GLAZED IN OPERABLE WINDOW - CASEMENT (TRIPLE GLAZED)**  
 U-VALUE: 0.18 MAXIMUM, NFRC CERTIFIED  
 SHGC: 0.25 MAXIMUM, NFRC CERTIFIED  
 LOEWEN METAL-CLAD CASEMENT, PUSH OUT, RETRACTABLE SCREEN (BASIS OF DESIGN)
- LS LIFT AND SLIDE DOOR (TRIPLE GLAZED)**  
 U-VALUE: 0.25 MAXIMUM, NFRC CERTIFIED  
 SHGC: 0.26 MAXIMUM, NFRC CERTIFIED  
 LOEWEN METAL-CLAD LIFT AND SLIDE (BASIS OF DESIGN)
- DO GLAZED SWING DOOR (TRIPLE GLAZED)**  
 U-VALUE: 0.22 MAXIMUM, NFRC CERTIFIED  
 SHGC: 0.26 MAXIMUM, NFRC CERTIFIED  
 LOEWEN METAL-CLAD TERRACE DOOR, IN-SWING, NARROW STILE (BASIS OF DESIGN) AT AW
- FG (AT UNCONDITIONED GARAGE) FIBERGLASS WINDOW (DOUBLE GLAZED)**  
 U-VALUE: N/A  
 SHGC: N/A

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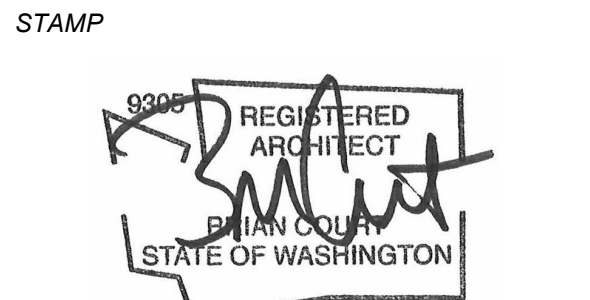
**FRAME ELEVATIONS A050**

**GENERAL FLOOR PLAN NOTES**

1. REFERENCE SHEET G101 FOR SITE PLAN.
2. REFERENCE DOOR SCHEDULE ON SHEET A300.
3. REFERENCE WINDOW TYPES ON SHEET A300 FOR SIZES AND U-VALUES.
4. REFERENCE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS, BRACING AND FRAMING.
5. EXHAUST FANS AND SMOKE DETECTORS SHOWN ON RCP'S.
6. PROVIDE BLOCKING AS NECESSARY FOR ALL WALL HUNG ELEMENTS, REFER TO INTERIOR AND EXTERIOR ELEVATIONS.
7. REFERENCE ENLARGED PLANS AND INTERIOR ELEVATIONS FOR INTERIOR DETAIL CALLOUTS.
8. TILE PATTERNS ARE DIAGMATIC. GC TO COORDINATE TILE PATTERN W/ ARCHITECT IN THE FIELD.

**FINISH LEGEND**  
 REPRESENTS FINISHES ON THIS SHEET ONLY, SEE A300 FOR MASTER FINISH LEGEND

CONC-2	03 35 43 - HONED CONCRETE SLAB ON GRADE
TL-3	09 30 00 - FLOOR TILE, 2X2 MOSAIC



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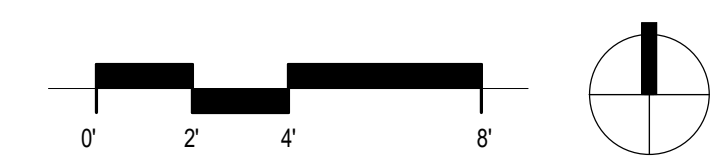
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**LEVEL 1 - FLOOR PLAN A111**

**1 LEVEL 1 FLOOR PLAN**  
 A111 1/4" = 1'-0"



**GENERAL REFLECTED CEILING PLAN NOTES**

- WOOD FRAMING AS NECESSARY TO SUPPORT DROPPED CEILINGS. REFERENCE STRUCTURAL.
- SMOKE DETECTORS ARE TO BE HARDWIRED AND INTER-CONNECTED WITH A BATTERY BACKUP. COORDINATE EXACT PLACEMENT W/ ARCH IN THE FIELD.
- COORDINATE ARCHITECTURAL RCP WITH MECHANICAL, ELECTRICAL, PLUMBING AND LIGHTING.
- AT EXPOSED WOOD ROOF DECKING NO FASTENERS ARE TO BE VISIBLE THROUGH DECKING. CONFIRM FASTENING METHOD WITH ARCHITECT IN THE FIELD PRIOR TO INSTALLATION.
- COORDINATE EXACT PLACEMENT OF LIGHT FIXTURES W/ ARCH, LIGHTING DESIGNER AND OWNERS IN THE FIELD. DIMENSIONS PROVIDED FOR REFERENCE ONLY. ALL DIMENSIONS TO BE VERIFIED IN FIELD.
- REFER TC10 /A606 FOR ALIGNMENT OF FIXTURES ON WOOD-PANELED CEILING.
- COORDINATE EXACT LOCATION OF SPRINKLERS W/ ARCH AND FIRE MARSHAL REQUIREMENTS.

**REFLECTED CEILING PLAN LEGEND**

**CEILING SYMBOLS:**

- WP: WORK POINT FOR CEILING TILE/PANEL GRID @ WALL INTERSECTIONS, OR AS NOTED
- (1) SIC: CEILING MOUNTED COMBINATION SMOKE DETECTOR AND CARBON MONOXIDE ALARM
- 8'-6" CEIL: CEILING HEIGHT ABOVE ASSOCIATED LEVEL'S DATUM, UNO
- (PNT-3): CEILING FINISH
- (S): SPRINKLER, RECESSED AT L1 AND L2, PENDANT AT L3

**LIGHT FIXTURES:**

REFERENCE LIGHTING DRAWINGS AND SCHEDULE.

- (A): MONOPOINT
- (A): TRACKLIGHT W/ MONOPOINT
- (O): RECESSED ADJUSTABLE DOWNLIGHT - ROUND TRIM FOR GYP CEILING
- (O): RECESSED ADJUSTABLE DOWNLIGHT - ROUND TRIM FOR GYP CEILING - DIRECTED
- (O): RECESSED ADJUSTABLE DOWNLIGHT - SQUARE TRIM FOR WOOD CEILING, REF
- (O): RECESSED ADJUSTABLE DOWNLIGHT - SQUARE TRIM FOR WOOD CEILING - DIRECTED
- (O): FLUSH MOUNT CEILING LIGHT
- (-): UNDERCABINET LIGHT
- (O): EXTERIOR WALL MOUNTED FIXTURE
- (O): SECURITY LIGHT
- (O): PENDANT LIGHT

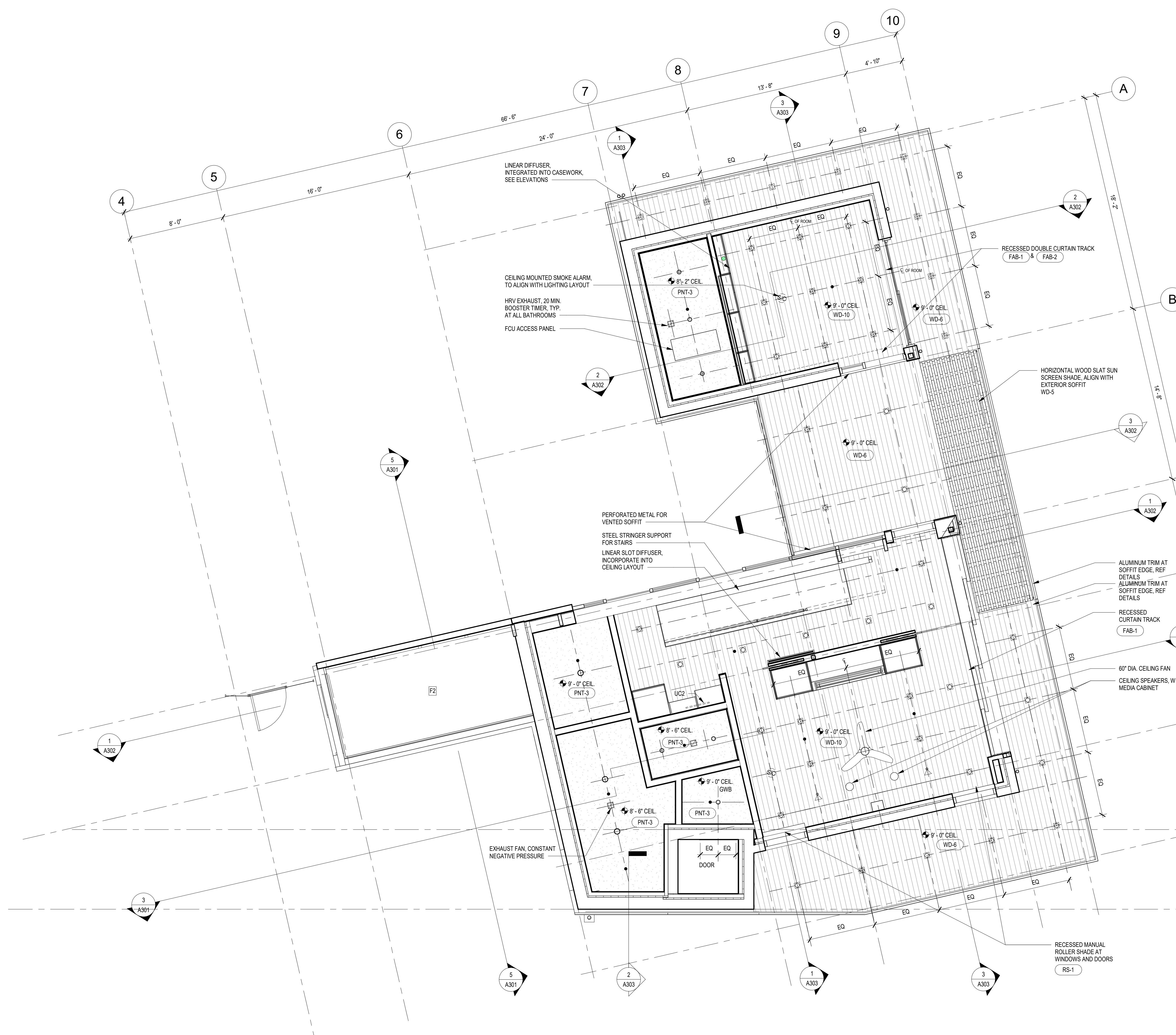
**MECHANICAL & ELECTRICAL FIXTURES:**

- (FAN): CEILING FAN, SEE PLAN FOR SIZE
- (GRILLE): MECH RETURN GRILLES (REF: MECH)
- (GRILLE): MECH SUPPLY GRILLES (REF: MECH)
- (GRILLE): SIDEWALL SUPPLY GRILLE (REF: MECH)
- (DIF): LINEAR SLOT DIFFUSER

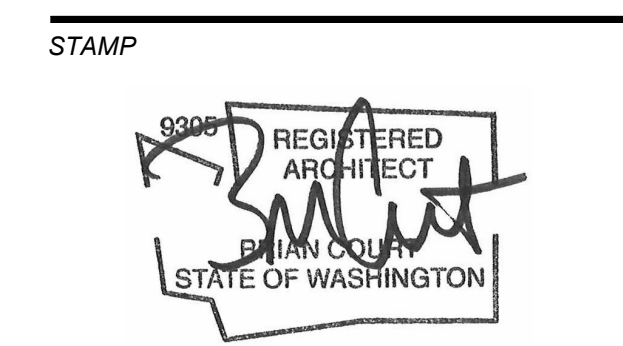
**FINISH LEGEND**

REPRESENTS FINISHES ON THIS SHEET ONLY, SEE A030 FOR MASTER FINISH LEGEND

FAB-1	12.22.16 - DRAPERY
FAB-2	12.22.16 - DRAPERY, ACOUSTIC
PNT-3	09.90.00 - PAINTED GYPSUM BOARD, CEILING COLOR - TBD
RS-1	12.24.00 - ROLLER SHADE, MANUAL, LIGHT FILTERING
WD-6	07.46.23 - EXTERIOR WOOD SOFFIT
WD-10	07.46.23 - INTERIOR WOOD SOFFIT



**1 LEVEL 1 REFLECTED CEILING PLAN**  
 A113 1/4" = 1'-0"



**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040  
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FEBRUARY 24, 2023

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No.	Description	Date

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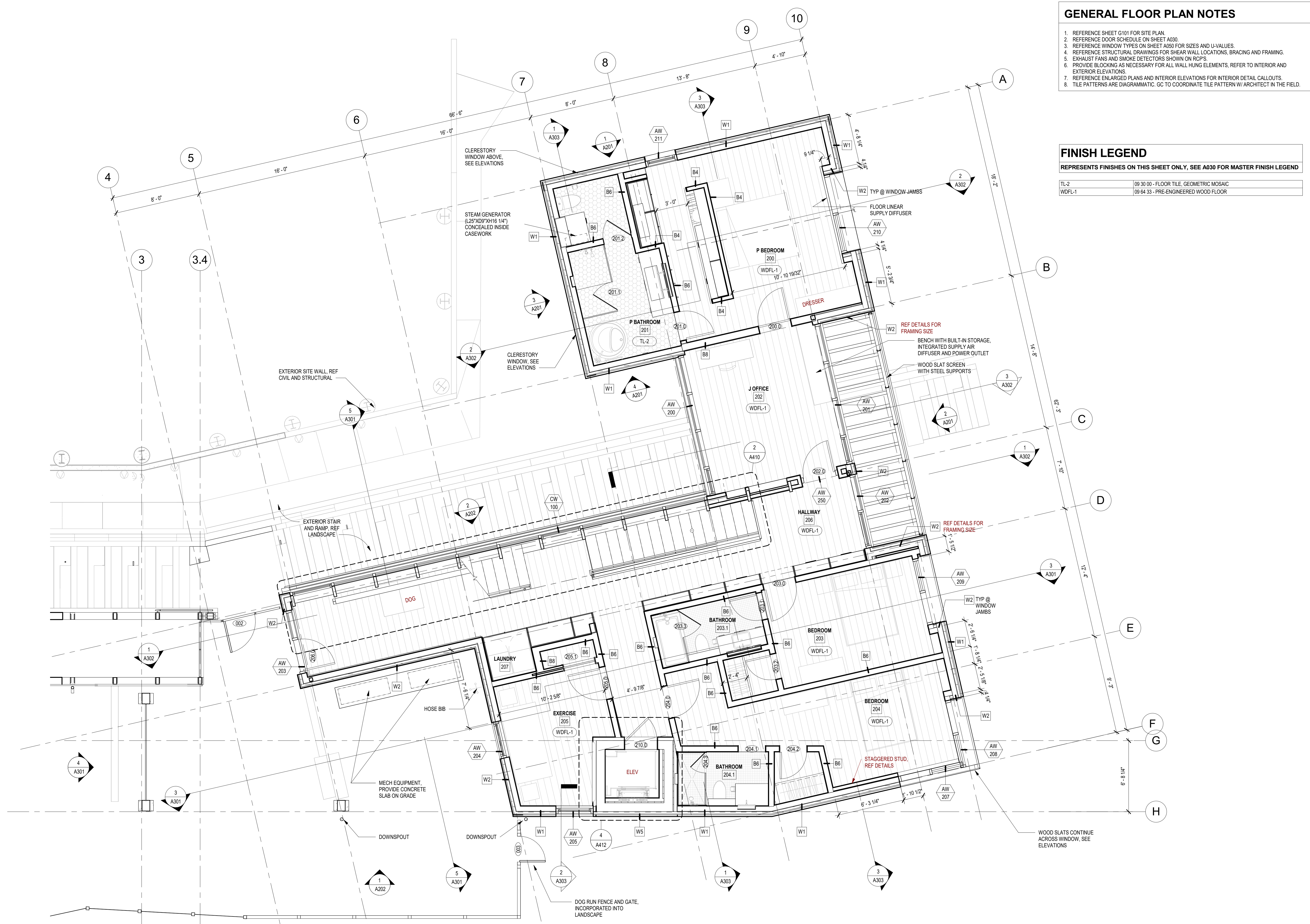
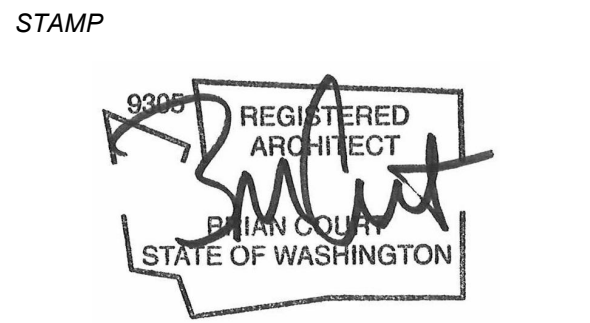
Issue Date: FEBRUARY 24, 2023

**LEVEL 1 - REFLECTED CEILING PLAN A113**

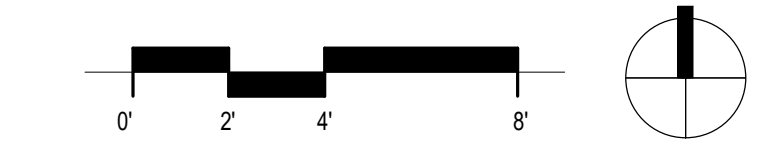
- GENERAL FLOOR PLAN NOTES**
1. REFERENCE SHEET G101 FOR SITE PLAN.
  2. REFERENCE DOOR SCHEDULE ON SHEET A030.
  3. REFERENCE WINDOW TYPES ON SHEET A030 FOR SIZES AND U-VALUES.
  4. REFERENCE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS, BRACING AND FRAMING.
  5. EXHAUST FANS AND SMOKE DETECTORS SHOWN ON RCP'S.
  6. PROVIDE BLOCKING AS NECESSARY FOR ALL WALL HUNG ELEMENTS, REFER TO INTERIOR AND EXTERIOR ELEVATIONS.
  7. REFERENCE ENLARGED PLANS AND INTERIOR ELEVATIONS FOR INTERIOR DETAIL CALLOUTS.
  8. TILE PATTERNS ARE DIAGRAMMATIC. GC TO COORDINATE TILE PATTERN W/ ARCHITECT IN THE FIELD.

**FINISH LEGEND**  
 REPRESENTS FINISHES ON THIS SHEET ONLY, SEE A030 FOR MASTER FINISH LEGEND

TL-2	09 30 00 - FLOOR TILE, GEOMETRIC MOSAIC
WDFL-1	09 64 33 - PRE-ENGINEERED WOOD FLOOR



**1 LEVEL 2 FLOOR PLAN**  
 A121 1/4" = 1'-0"



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6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

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REVISIONS

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 MJH Proj No.: A20.0085.00  
 Issue Date: FEBRUARY 24, 2023

SHEET  
**LEVEL 2 - FLOOR PLAN A121**

**GENERAL REFLECTED CEILING PLAN NOTES**

- WOOD FRAMING AS NECESSARY TO SUPPORT DROPPED CEILINGS. REFERENCE STRUCTURAL.
- SMOKE DETECTORS ARE TO BE HARDWIRED AND INTER-CONNECTED WITH A BATTERY BACKUP. COORDINATE EXACT PLACEMENT W/ ARCH IN THE FIELD.
- COORDINATE ARCHITECTURAL RCP WITH MECHANICAL, ELECTRICAL, PLUMBING AND LIGHTING.
- AT EXPOSED WOOD ROOF DECKING NO FASTENERS ARE TO BE VISIBLE THROUGH DECKING. CONFIRM FASTENING METHOD WITH ARCHITECT IN THE FIELD PRIOR TO INSTALLATION.
- COORDINATE EXACT PLACEMENT OF LIGHT FIXTURES W/ ARCH, LIGHTING DESIGNER AND OWNERS IN THE FIELD. DIMENSIONS PROVIDED FOR REFERENCE ONLY. ALL DIMENSIONS TO BE VERIFIED IN FIELD.
- REFER TC10 /A606 FOR ALIGNMENT OF FIXTURES ON WOOD-PANELED CEILING.
- COORDINATE EXACT LOCATION OF SPRINKLERS W/ ARCH AND FIRE MARSHAL REQUIREMENTS.

**REFLECTED CEILING PLAN LEGEND**

**CEILING SYMBOLS:**

- WP: WORK POINT FOR CEILING TILE/PANEL GRID @ WALL INTERSECTIONS, OR AS NOTED
- SIC: CEILING MOUNTED COMBINATION SMOKE DETECTOR AND CARBON MONOXIDE ALARM
- 8'-6" CEIL: CEILING HEIGHT ABOVE ASSOCIATED LEVEL'S DATUM, UNO
- PNT-3: CEILING FINISH
- SPRINKLER, RECESSED AT L1 AND L2. PENDANT AT L3

**LIGHT FIXTURES:**

REFERENCE LIGHTING DRAWINGS AND SCHEDULE.

- MONOPOINT
- TRACKLIGHT W/ MONOPOINT
- RECESSED ADJUSTABLE DOWNLIGHT - ROUND TRIM FOR GYP CEILING
- RECESSED ADJUSTABLE DOWNLIGHT - ROUND TRIM FOR GYP CEILING - DIRECTED
- RECESSED ADJUSTABLE DOWNLIGHT - SQUARE TRIM FOR WOOD CEILING, REF
- RECESSED ADJUSTABLE DOWNLIGHT - SQUARE TRIM FOR WOOD CEILING - DIRECTED
- FLUSH MOUNT CEILING LIGHT
- UNDERCABINET LIGHT
- EXTERIOR WALL MOUNTED FIXTURE
- SECURITY LIGHT
- PENDANT LIGHT

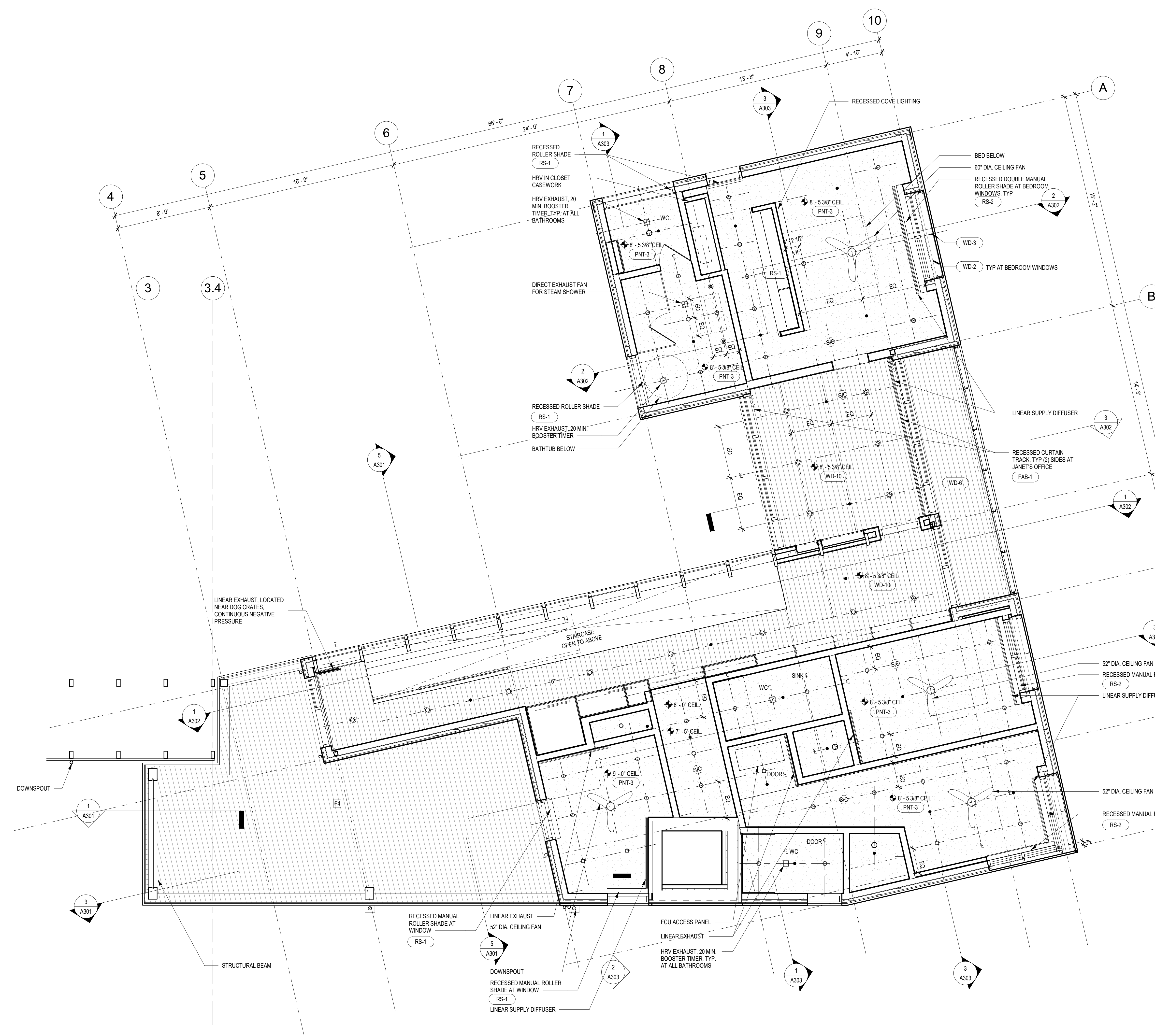
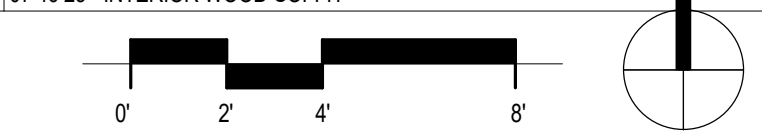
**MECHANICAL & ELECTRICAL FIXTURES:**

- CEILING FAN, SEE PLAN FOR SIZE
- MECH RETURN GRILLES (REF: MECH)
- MECH SUPPLY GRILLES (REF: MECH)
- SIDEWALL SUPPLY GRILLE (REF: MECH)
- LINEAR SLOT DIFFUSER

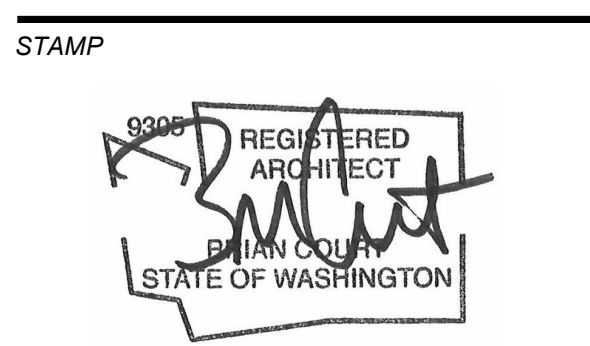
**FINISH LEGEND**

REPRESENTS FINISHES ON THIS SHEET ONLY, SEE A030 FOR MASTER FINISH LEGEND

FAB-1	12 22 16 - DRAPERY
PNT-3	09 90 00 - PAINTED GYPSUM BOARD, CEILING COLOR - TBD
RS-1	12 24 00 - ROLLER SHADE, MANUAL, LIGHT FILTERING
RS-2	12 24 00 - ROLLER SHADE, MANUAL, BLACKOUT AND LIGHT FILTERING
WD-2	07 46 23 - VERTICAL T&G KEBONY SIDING, REF DETAILS AND A030
WD-3	07 36 23 - HORIZONTAL WOOD KEBONY SLATS OVER STEEL SUPPORTS. STEEL SUPPORTS TO BE PAINTED WITH HIGH PERFORMANCE PAINT, REF DETAILS AND A030
WD-6	07 46 23 - EXTERIOR WOOD SOFFIT
WD-10	07 46 23 - INTERIOR WOOD SOFFIT



**1 LEVEL 2 REFLECTED CEILING PLAN**  
 A123 1/4" = 1'-0"



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FEBRUARY 24, 2023

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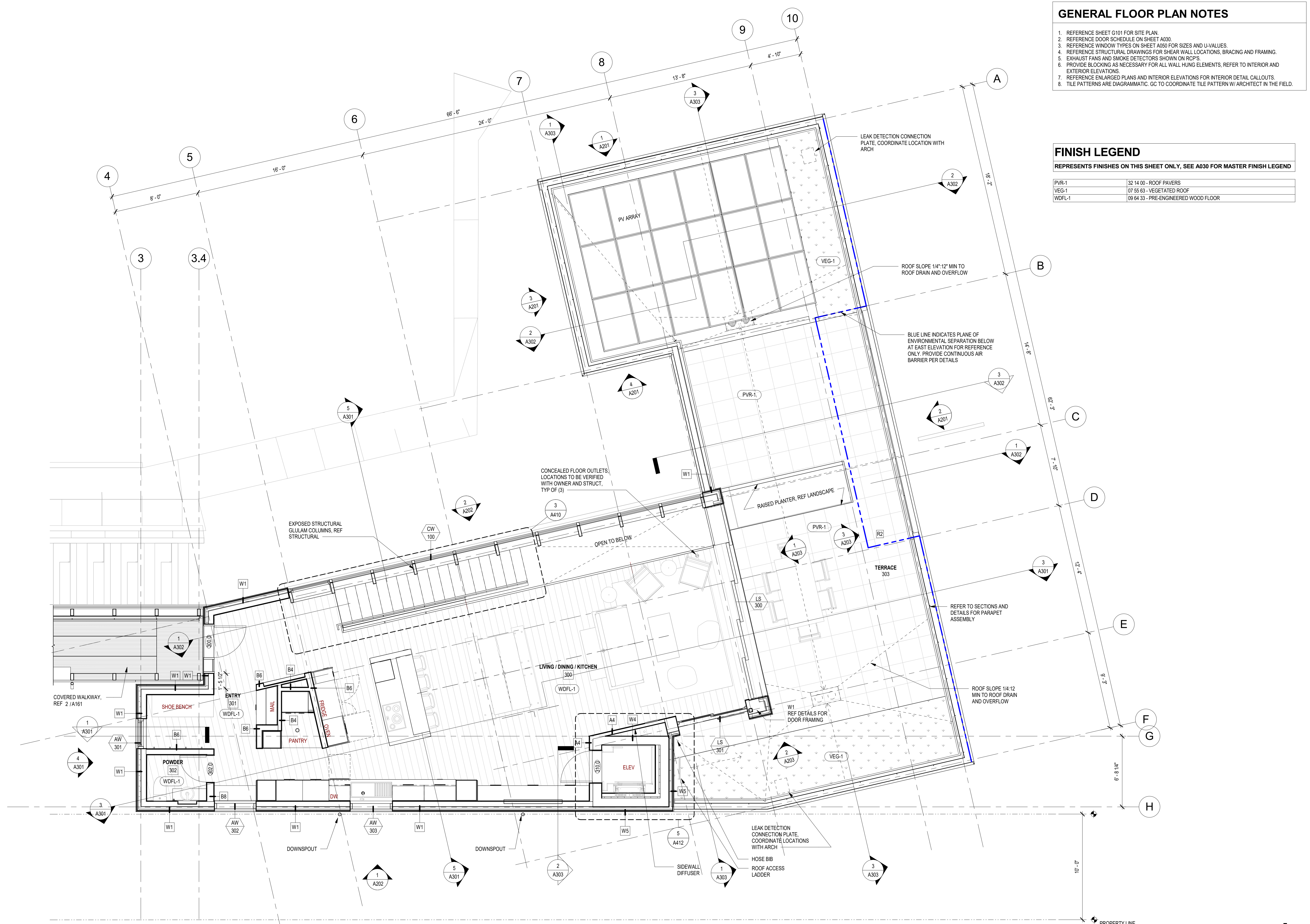
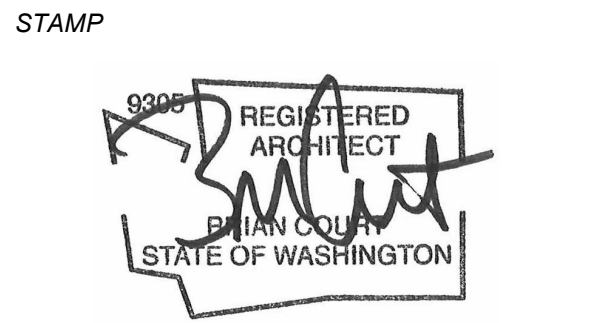
**LEVEL 2 - REFLECTED CEILING PLAN A123**

**GENERAL FLOOR PLAN NOTES**

1. REFERENCE SHEET G101 FOR SITE PLAN.
2. REFERENCE DOOR SCHEDULE ON SHEET A030.
3. REFERENCE WINDOW TYPES ON SHEET A050 FOR SIZES AND U-VALUES.
4. REFERENCE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS, BRACING AND FRAMING.
5. EXHAUST FANS AND SMOKE DETECTORS SHOWN ON RCP'S.
6. PROVIDE BLOCKING AS NECESSARY FOR ALL WALL HUNG ELEMENTS, REFER TO INTERIOR AND EXTERIOR ELEVATIONS.
7. REFERENCE ENLARGED PLANS AND INTERIOR ELEVATIONS FOR INTERIOR DETAIL CALLOUTS.
8. TILE PATTERNS ARE DIAGMATIC. GC TO COORDINATE TILE PATTERN W/ ARCHITECT IN THE FIELD.

**FINISH LEGEND**  
 REPRESENTS FINISHES ON THIS SHEET ONLY, SEE A030 FOR MASTER FINISH LEGEND

PVR-1	32 14 00 - ROOF PAVERS
VEG-1	07 55 83 - VEGETATED ROOF
WDFL-1	09 64 33 - PRE-ENGINEERED WOOD FLOOR



**1 LEVEL 3 FLOOR PLAN**  
 A131 1/4" = 1'-0"



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 MERCER ISLAND, WA 98040  
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REVISIONS

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 Issue Date: FEBRUARY 24, 2023

**LEVEL 3 - FLOOR PLAN A131**



**GENERAL REFLECTED CEILING PLAN NOTES**

- WOOD FRAMING AS NECESSARY TO SUPPORT DROPPED CEILINGS. REFERENCE STRUCTURAL.
- SMOKE DETECTORS ARE TO BE HARDWIRED AND INTER-CONNECTED WITH A BATTERY BACKUP. COORDINATE EXACT PLACEMENT W/ ARCH IN THE FIELD.
- COORDINATE ARCHITECTURAL RCP WITH MECHANICAL, ELECTRICAL, PLUMBING AND LIGHTING.
- AT EXPOSED WOOD ROOF DECKING NO FASTENERS ARE TO BE VISIBLE THROUGH DECKING. CONFIRM FASTENING METHOD WITH ARCHITECT IN THE FIELD PRIOR TO INSTALLATION.
- COORDINATE EXACT PLACEMENT OF LIGHT FIXTURES W/ ARCH, LIGHTING DESIGNER AND OWNERS IN THE FIELD. DIMENSIONS PROVIDED FOR REFERENCE ONLY. ALL DIMENSIONS TO BE VERIFIED IN FIELD.
- REFER TC10 /A606 FOR ALIGNMENT OF FIXTURES ON WOOD-PANELED CEILING.
- COORDINATE EXACT LOCATION OF SPRINKLERS W/ ARCH AND FIRE MARSHAL REQUIREMENTS.

**REFLECTED CEILING PLAN LEGEND**

**CEILING SYMBOLS:**

- WP: WORK POINT FOR CEILING TILE/PANEL GRID @ WALL INTERSECTIONS, OR AS NOTED
- SIC: CEILING MOUNTED COMBINATION SMOKE DETECTOR AND CARBON MONOXIDE ALARM
- 8'-6" CEIL: CEILING HEIGHT ABOVE ASSOCIATED LEVEL'S DATUM, UNO
- PNT-3: CEILING FINISH
- SPRINKLER: SPRINKLER, RECESSED AT L1 AND L2, PENDANT AT L3

**LIGHT FIXTURES:**

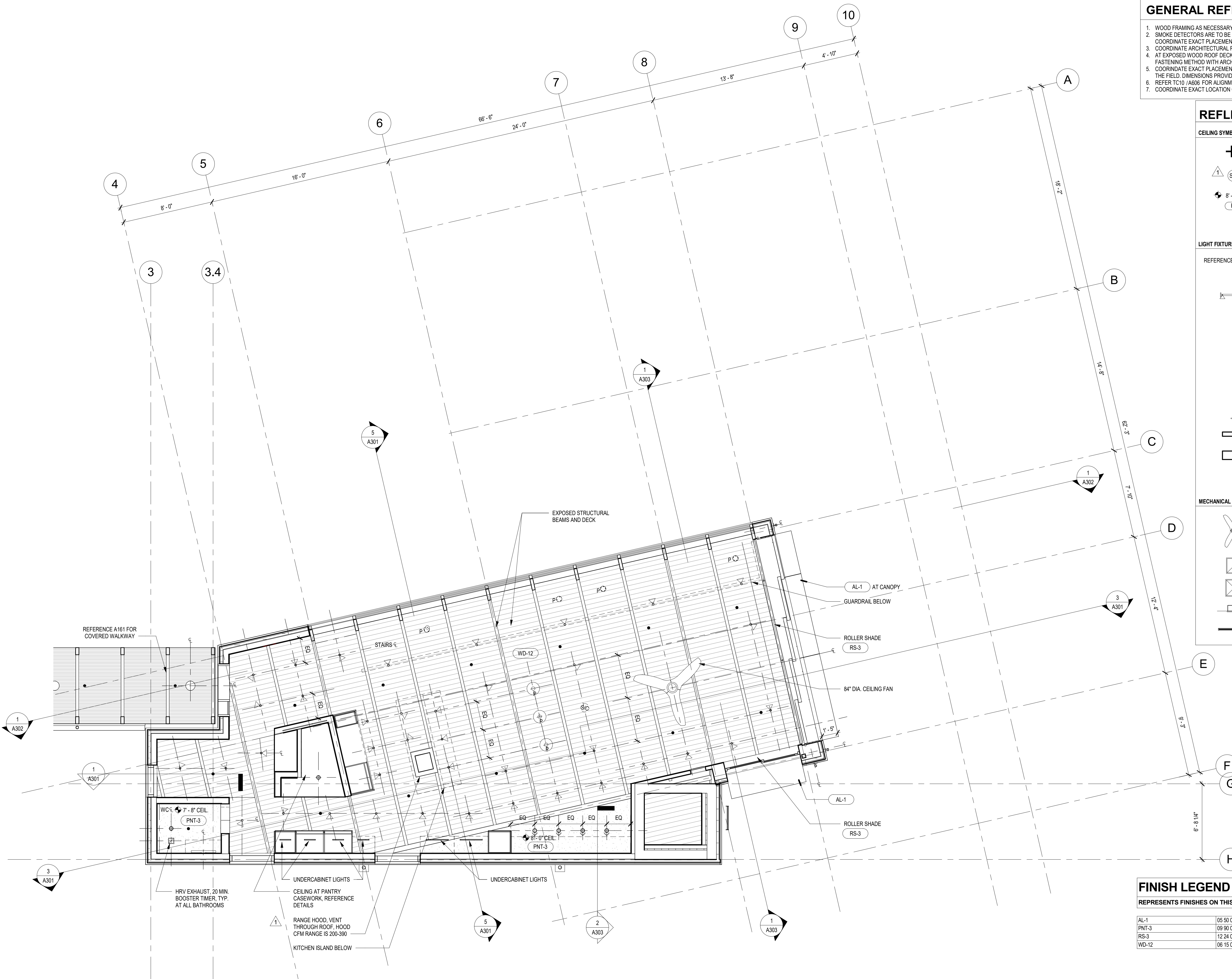
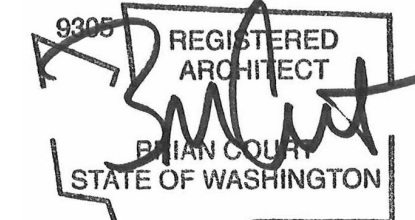
REFERENCE LIGHTING DRAWINGS AND SCHEDULE.

- MONOPOINT
- TRACKLIGHT W/ MONOPOINT
- RECESSED ADJUSTABLE DOWNLIGHT - ROUND TRIM FOR GYP CEILING
- RECESSED ADJUSTABLE DOWNLIGHT - ROUND TRIM FOR GYP CEILING - DIRECTED
- RECESSED ADJUSTABLE DOWNLIGHT - SQUARE TRIM FOR WOOD CEILING, REF
- RECESSED ADJUSTABLE DOWNLIGHT - SQUARE TRIM FOR WOOD CEILING - DIRECTED
- FLUSH MOUNT CEILING LIGHT
- UNDERCABINET LIGHT
- EXTERIOR WALL MOUNTED FIXTURE
- SECURITY LIGHT
- PENDANT LIGHT

**MECHANICAL & ELECTRICAL FIXTURES:**

- CEILING FAN, SEE PLAN FOR SIZE
- MECH RETURN GRILLES (REF: MECH)
- MECH SUPPLY GRILLES (REF: MECH)
- SIDEWALL SUPPLY GRILLE (REF: MECH)
- LINEAR SLOT DIFFUSER

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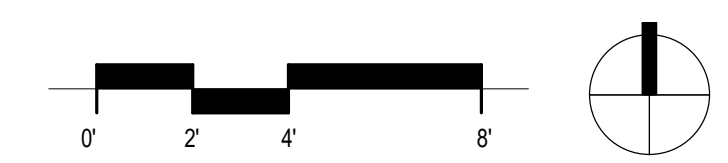


**FINISH LEGEND**

REPRESENTS FINISHES ON THIS SHEET ONLY, SEE A030 FOR MASTER FINISH LEGEND

AL-1	05 50 00 - POWDERCOATED ALUMINUM
PNT-3	09 90 00 - PAINTED GYPSUM BOARD, CEILING COLOR - TBD
RS-3	12 24 00 - ROLLER SHADE, AUTOMATED, LIGHT FILTERING
WD-12	06 15 00 - INTERIOR STAIR TREAD

**1 LEVEL 3 REFLECTED CEILING PLAN**  
 A133 1/4" = 1'-0"



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6838 96TH AVE SE  
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FEBRUARY 24, 2023

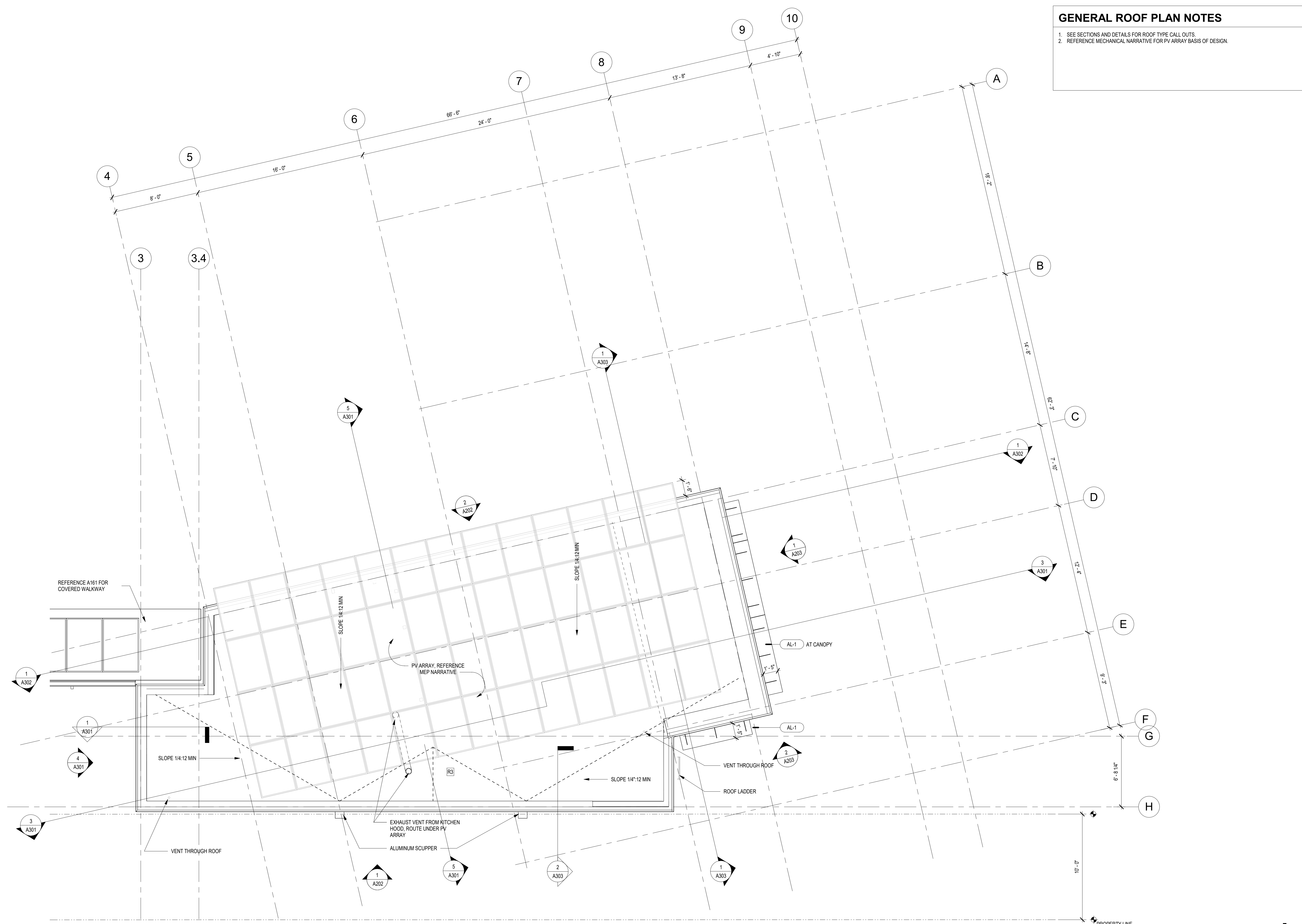
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No.	Description	Date
1	Building Permit Resubmittal	10/27/22

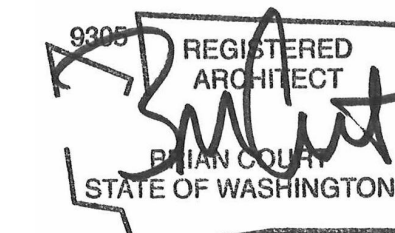
Drawn: AN  
 Checked: AN  
 MJH Proj No.: A20.0085.00  
 Issue Date: FEBRUARY 24, 2023

**LEVEL 3 - REFLECTED CEILING PLAN A133**

**GENERAL ROOF PLAN NOTES**  
 1. SEE SECTIONS AND DETAILS FOR ROOF TYPE CALL OUTS.  
 2. REFERENCE MECHANICAL NARRATIVE FOR PV ARRAY BASIS OF DESIGN.



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**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

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SHEET

**1 ROOF PLAN**  
 A141 1/4" = 1'-0"



**ROOF PLAN A141**

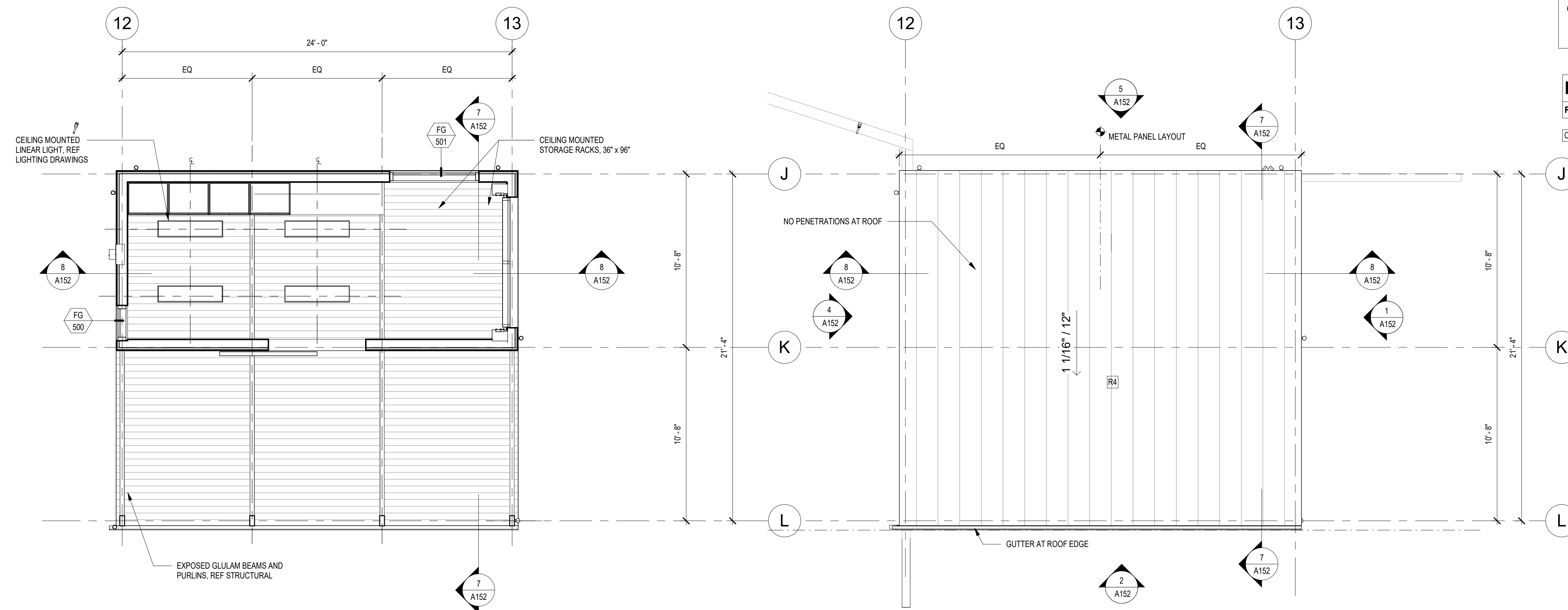
**GENERAL GARAGE PLAN NOTES**

1. REFERENCE SHEET G101 FOR SITE PLAN.
2. REFERENCE DOOR SCHEDULE ON SHEET A030.
3. REFERENCE WINDOW TYPES ON SHEET A030 FOR SIZES AND U-VALUES.
4. REFERENCE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS, BRACING AND FRAMING.
5. PROVIDE BLOCKING AS NECESSARY FOR ALL WALL HUNG ELEMENTS, REFER TO INTERIOR AND EXTERIOR ELEVATIONS.
6. PROVIDE INSULATION AND HEAT TRACE FREEZE PROTECTION FOR WATER, SOIL, AND WASTE PIPES AT GARAGE.

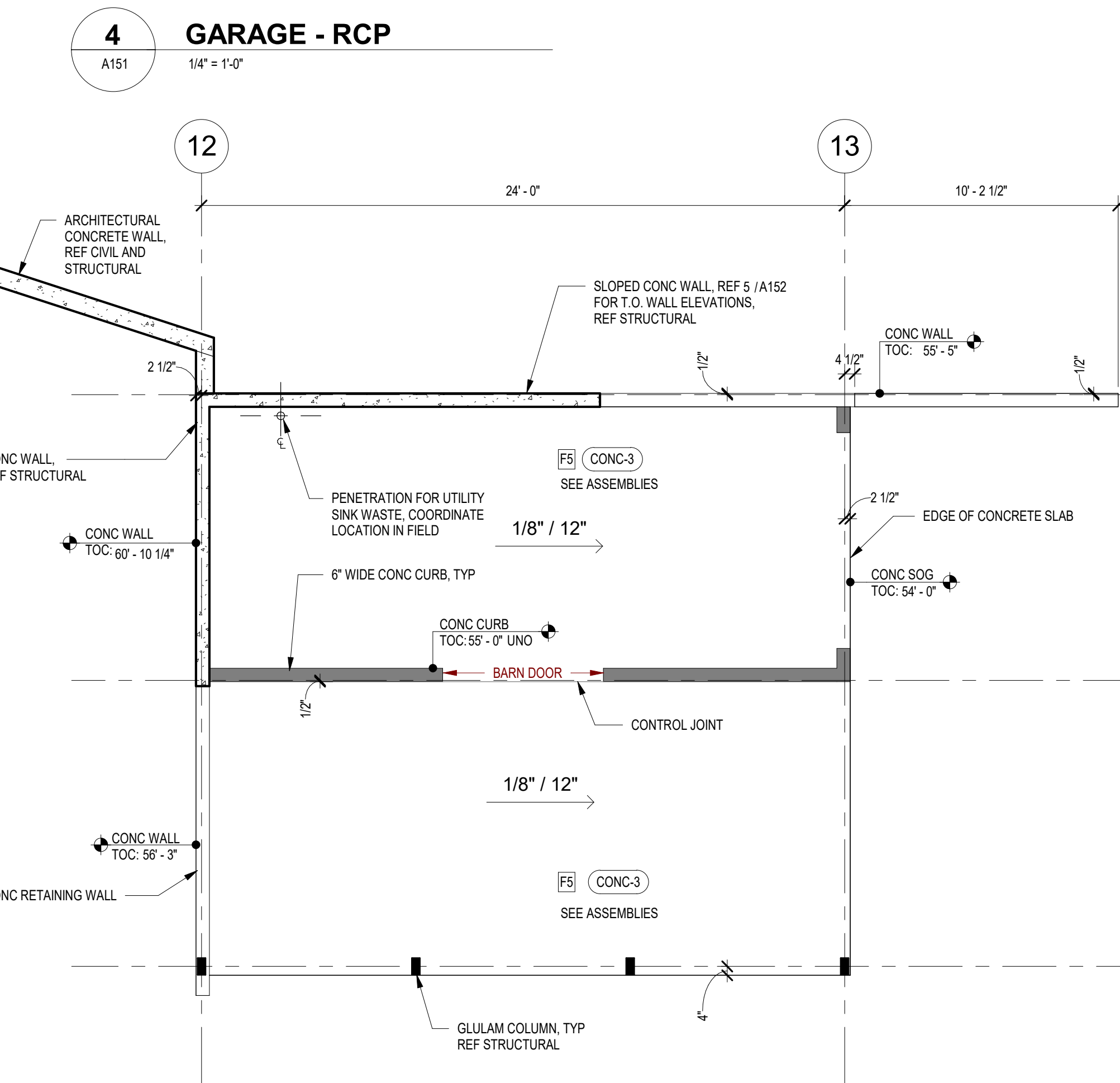
**FINISH LEGEND**

REPRESENTS FINISHES ON THIS SHEET ONLY, SEE A030 FOR MASTER FINISH LEGEND

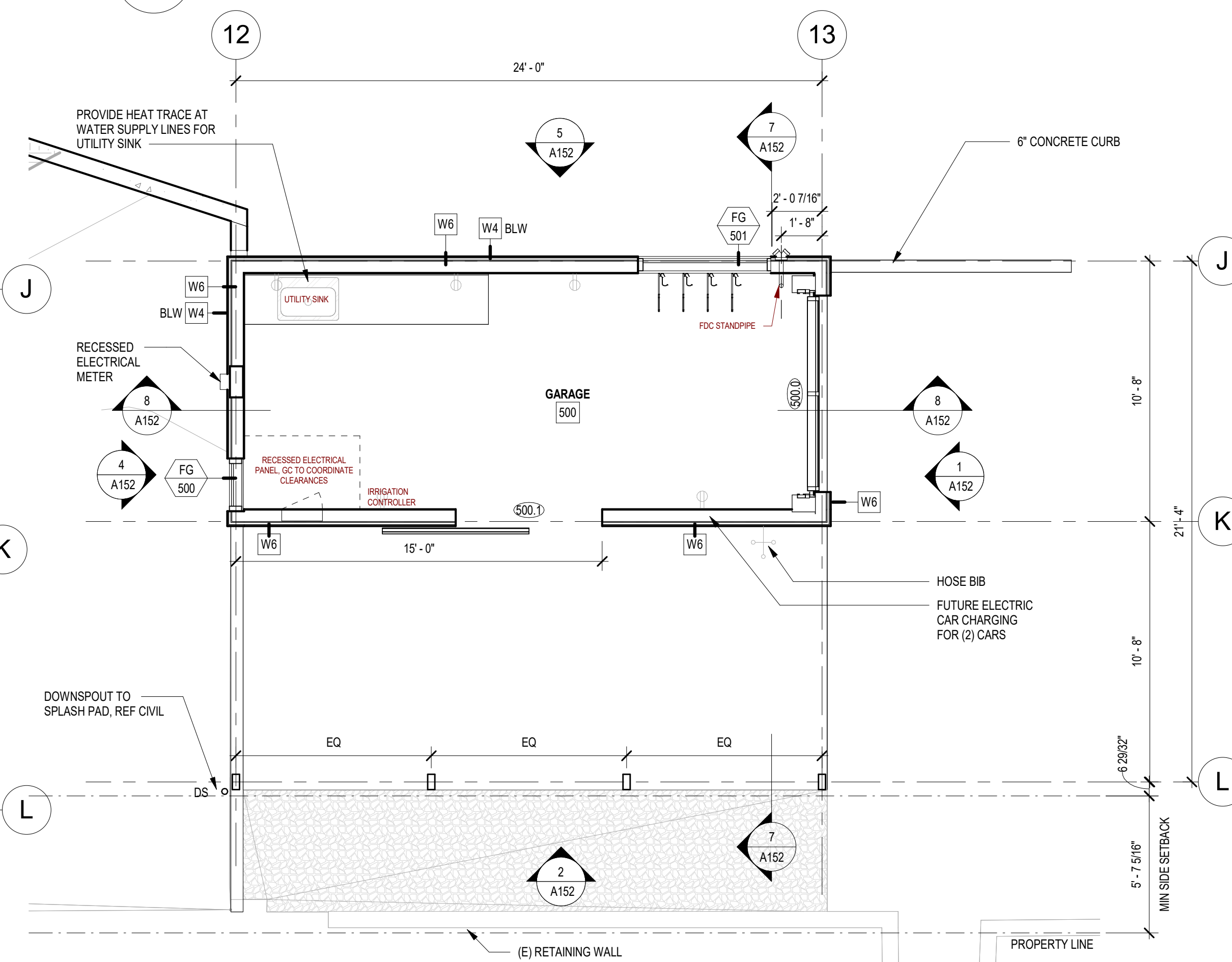
CONC-3	03 30 00 - BROOM FINISH
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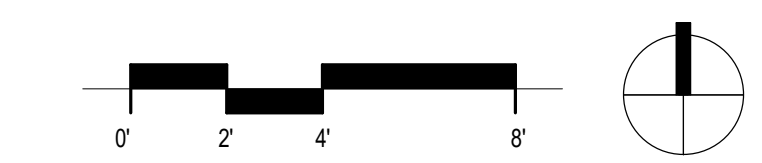
**3 GARAGE - ROOF PLAN**  
 1/4" = 1'-0"



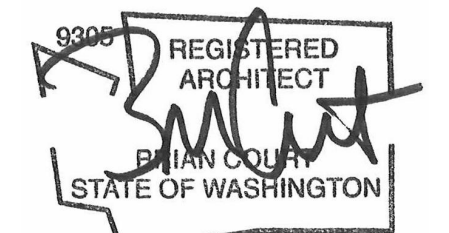
**2 GARAGE - SLAB PLAN**  
 1/4" = 1'-0"



**1 GARAGE - FLOOR PLAN**  
 1/4" = 1'-0"



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6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

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FEBRUARY 24, 2023

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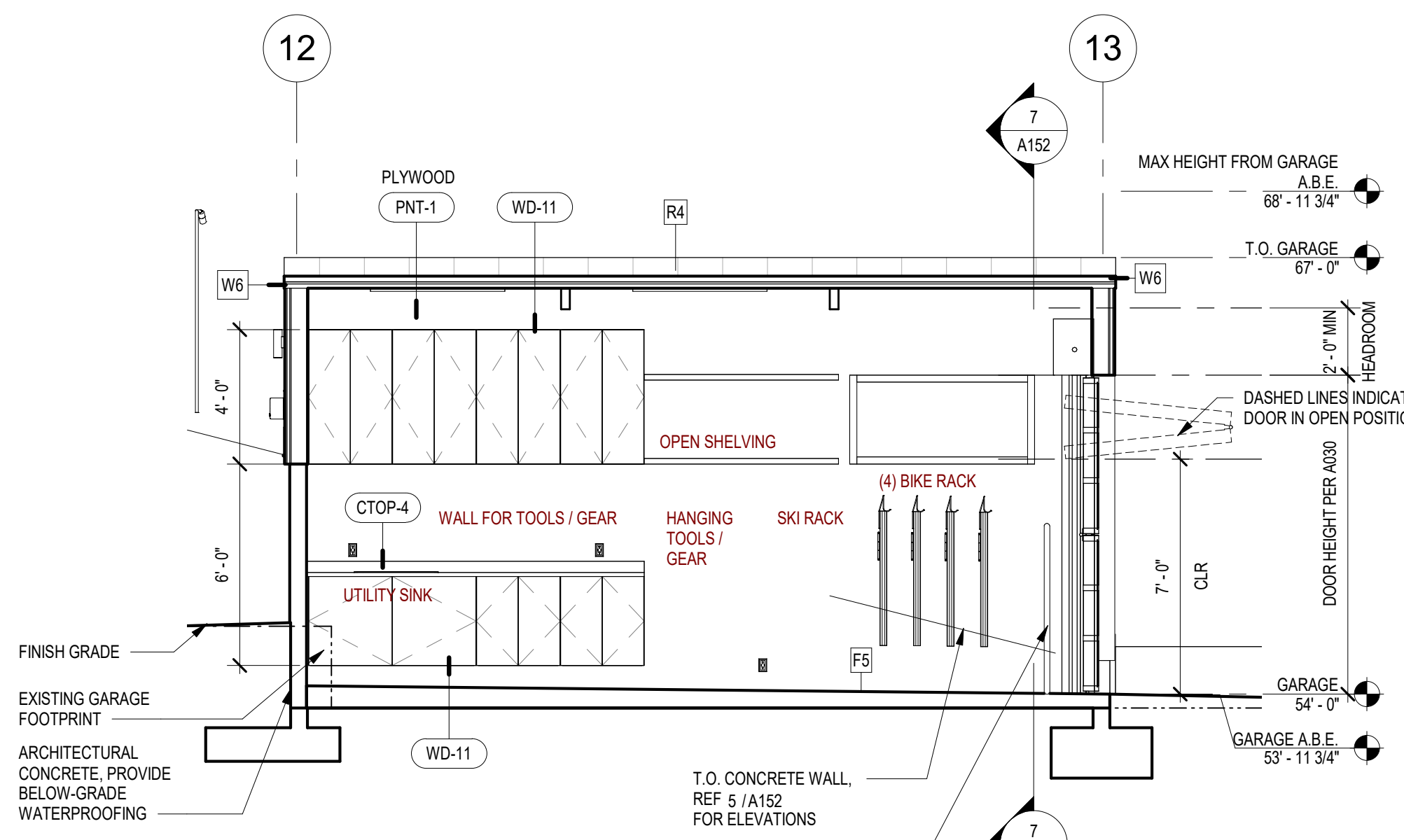
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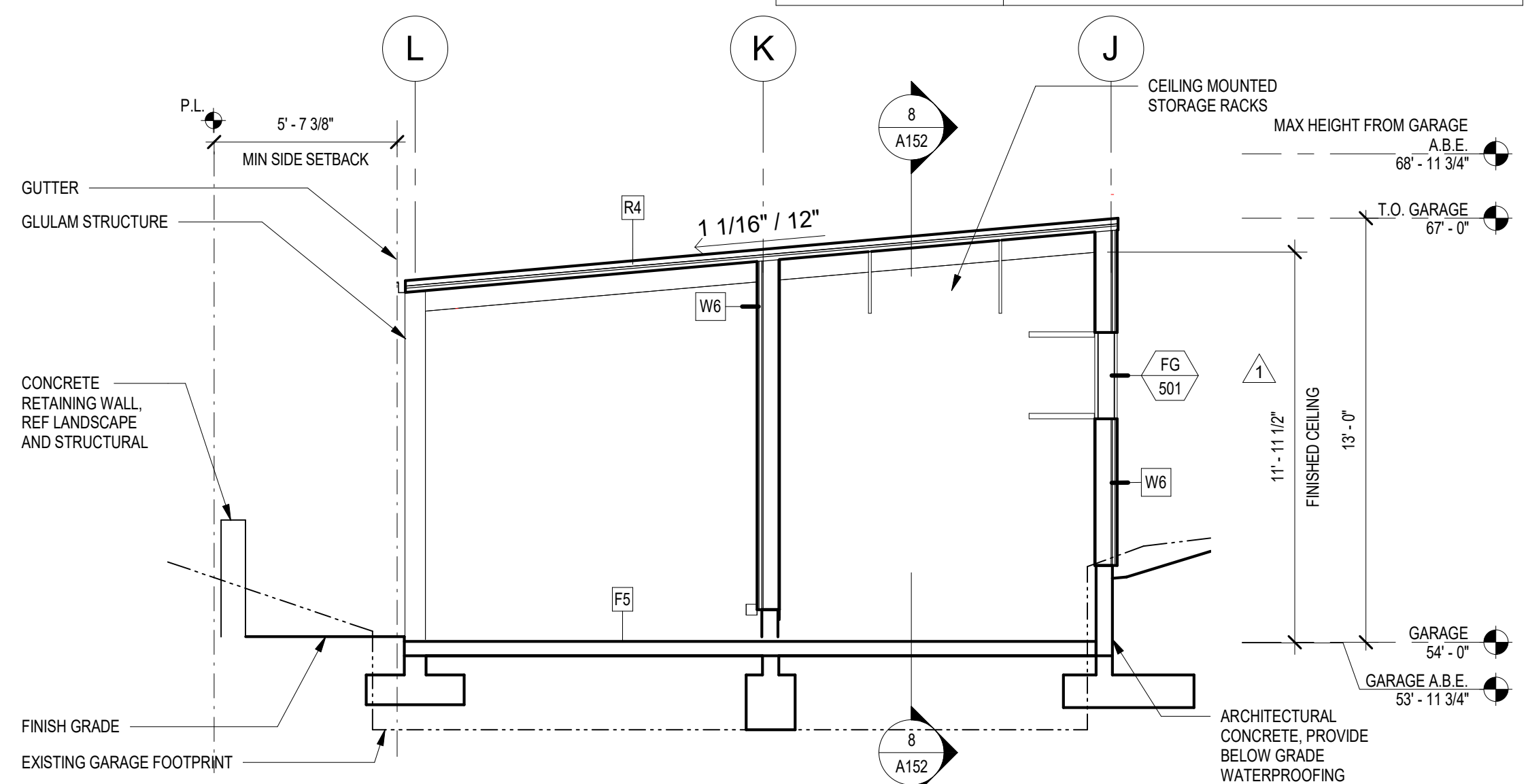
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**GARAGE PLANS  
 A151**

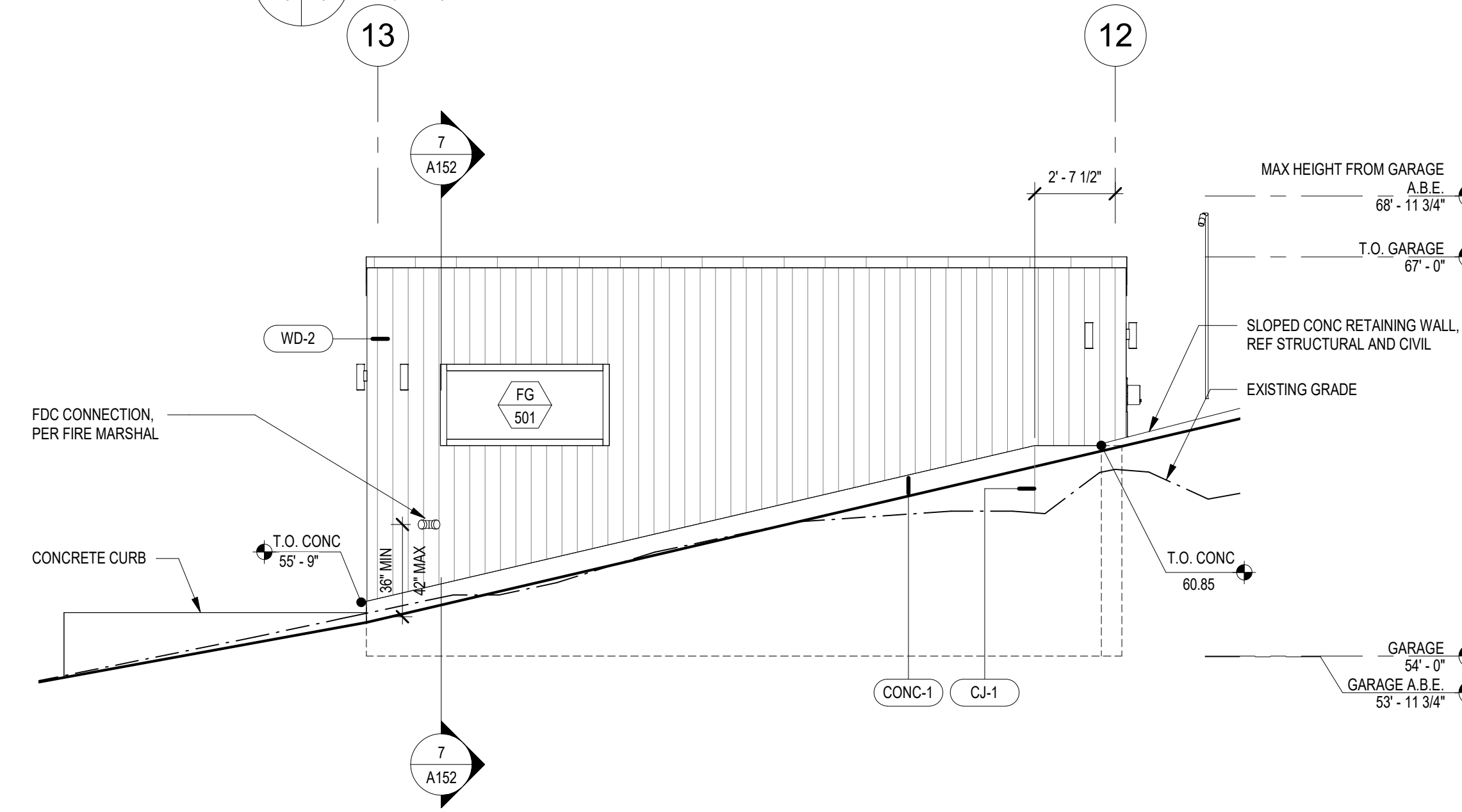
FINISH LEGEND	
REPRESENTS FINISHES ON THIS SHEET ONLY, SEE A030 FOR MASTER FINISH LEGEND	
CJ-1	03 30 00 - CONTROL JOINT AT CIP ARCHITECTURAL CONCRETE, CHAMFER STRIP
CONC-1	03 30 00 - CIP ARCHITECTURAL CONCRETE, FORM TIE LOCATIONS TO BE COORDINATED IN SHOP DRAWINGS
CTOP-4	12 36 00 - COUNTERTOP, TBD
PNT-1	09 90 00 - PAINTED GYPSUM BOARD, WHITE
ST-1	09 93 13 - INTERIOR WOOD FINISH
WD-2	07 46 23 - VERTICAL T&G KEBONY SIDING, REF DETAILS AND A030
WD-11	06 40 00 - DOUGLAS FIR INTERIOR PANELING



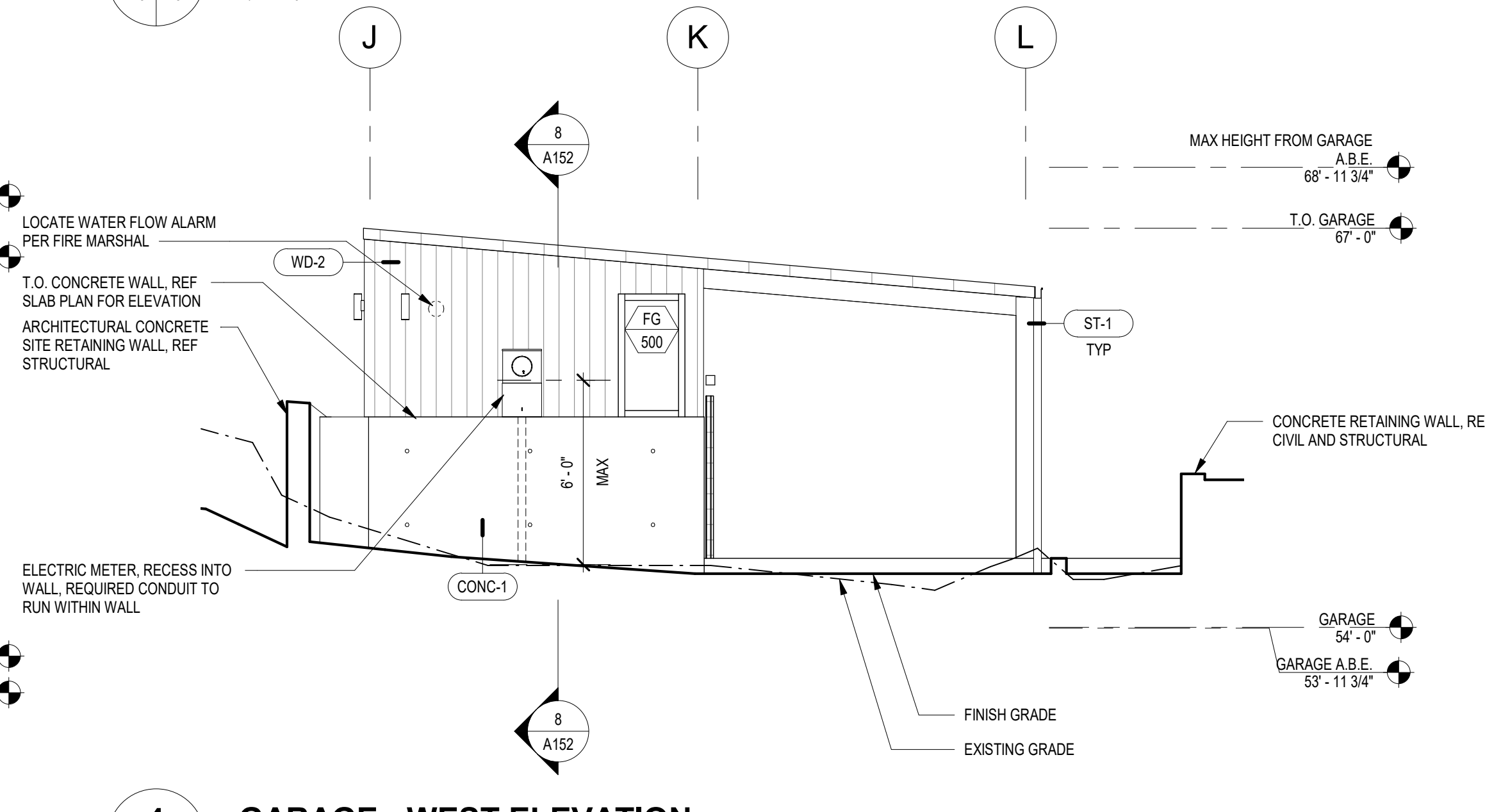
**8 GARAGE - EW SECTION**  
1/4" = 1'-0"



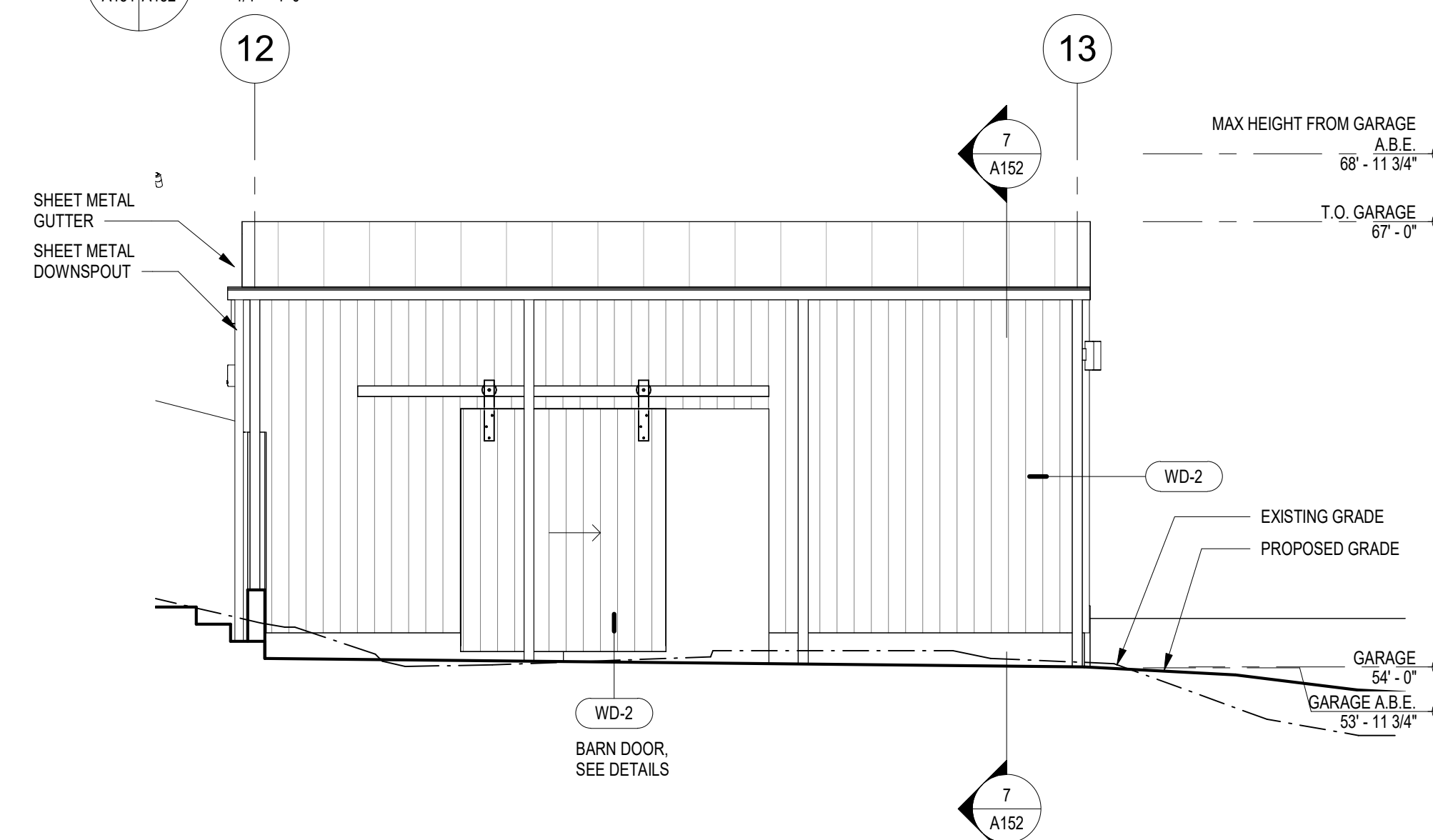
**7 GARAGE - NS SECTION**  
1/4" = 1'-0"



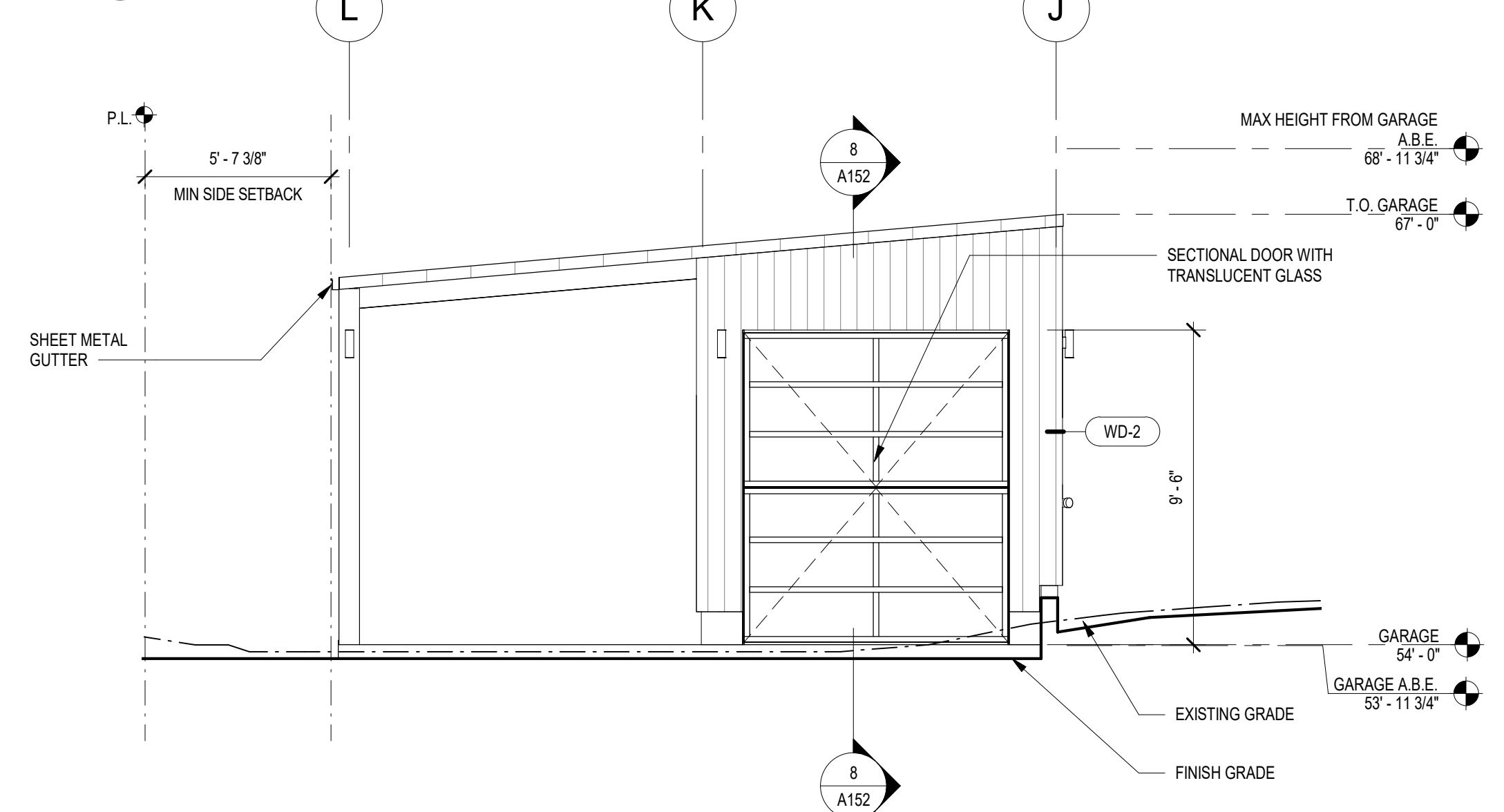
**5 GARAGE - NORTH ELEVATION**  
1/4" = 1'-0"



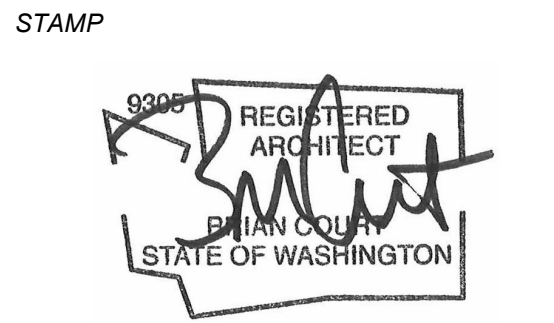
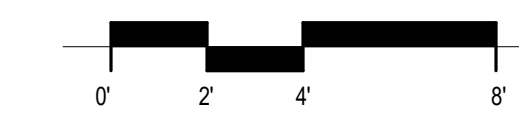
**4 GARAGE - WEST ELEVATION**  
1/4" = 1'-0"



**2 GARAGE - SOUTH ELEVATION**  
1/4" = 1'-0"



**1 GARAGE - EAST ELEVATION**  
1/4" = 1'-0"



**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
MERCER ISLAND, WA 98040  
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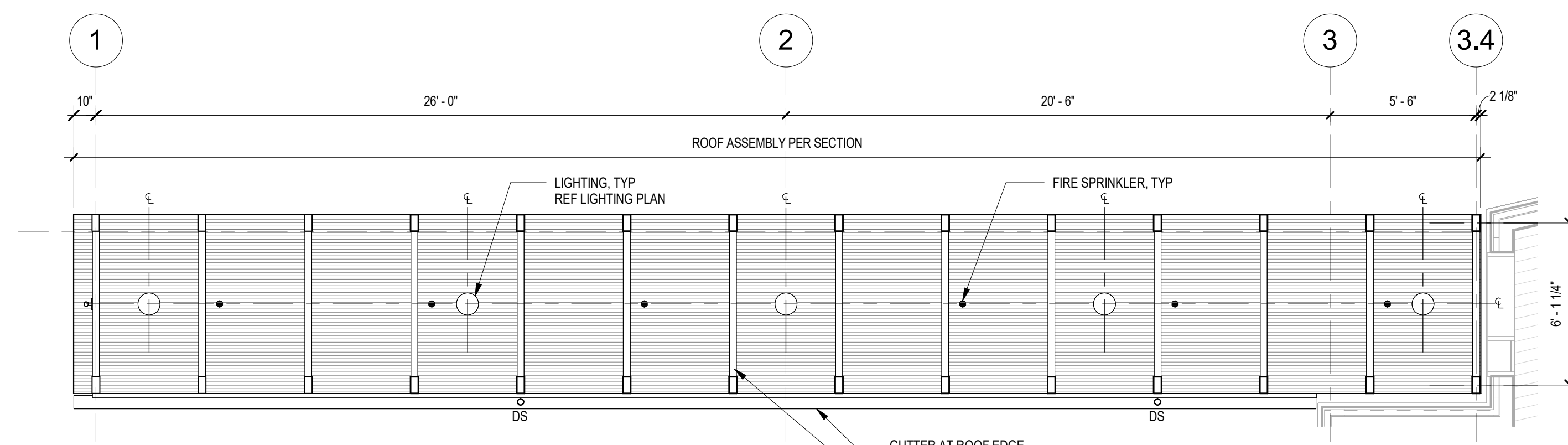
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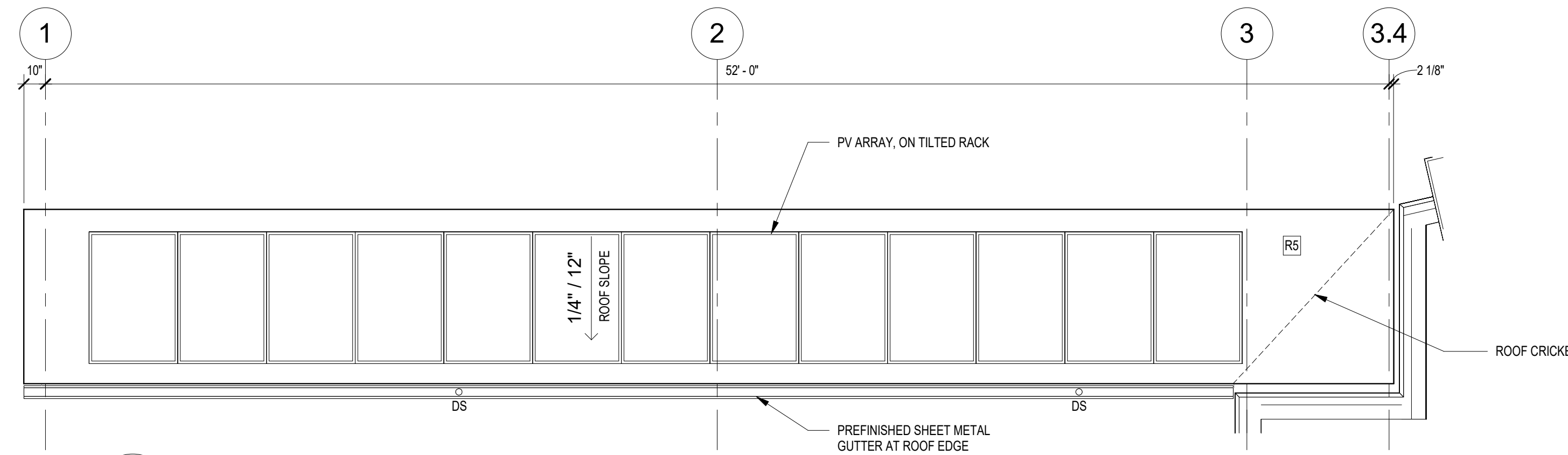
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1	Building Permit Resubmittal	10/27/22

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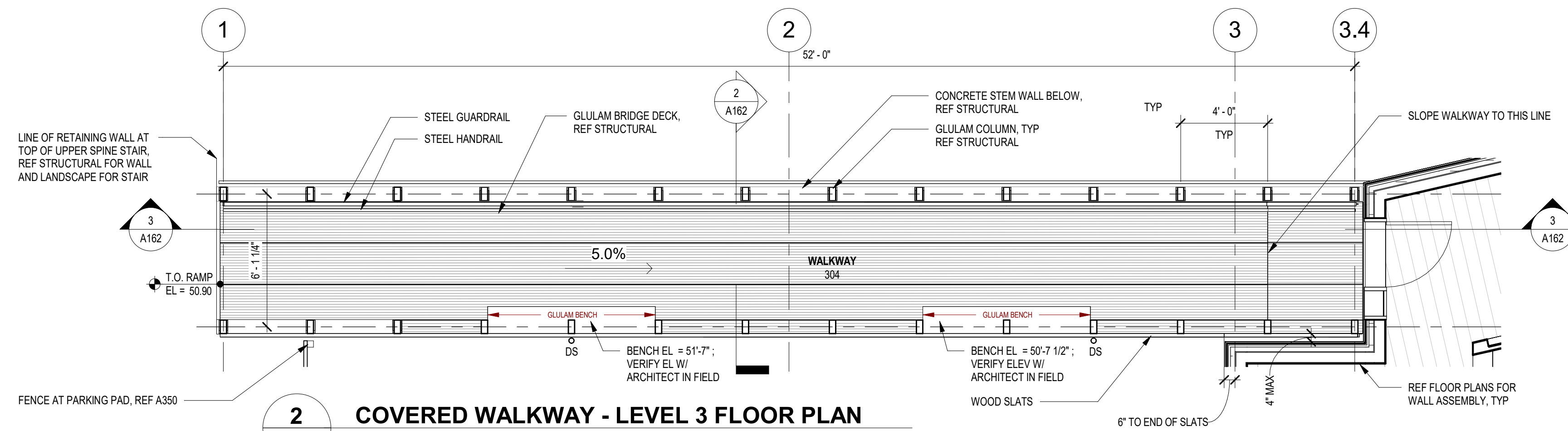
**GARAGE ELEVATIONS, SECTIONS A152**



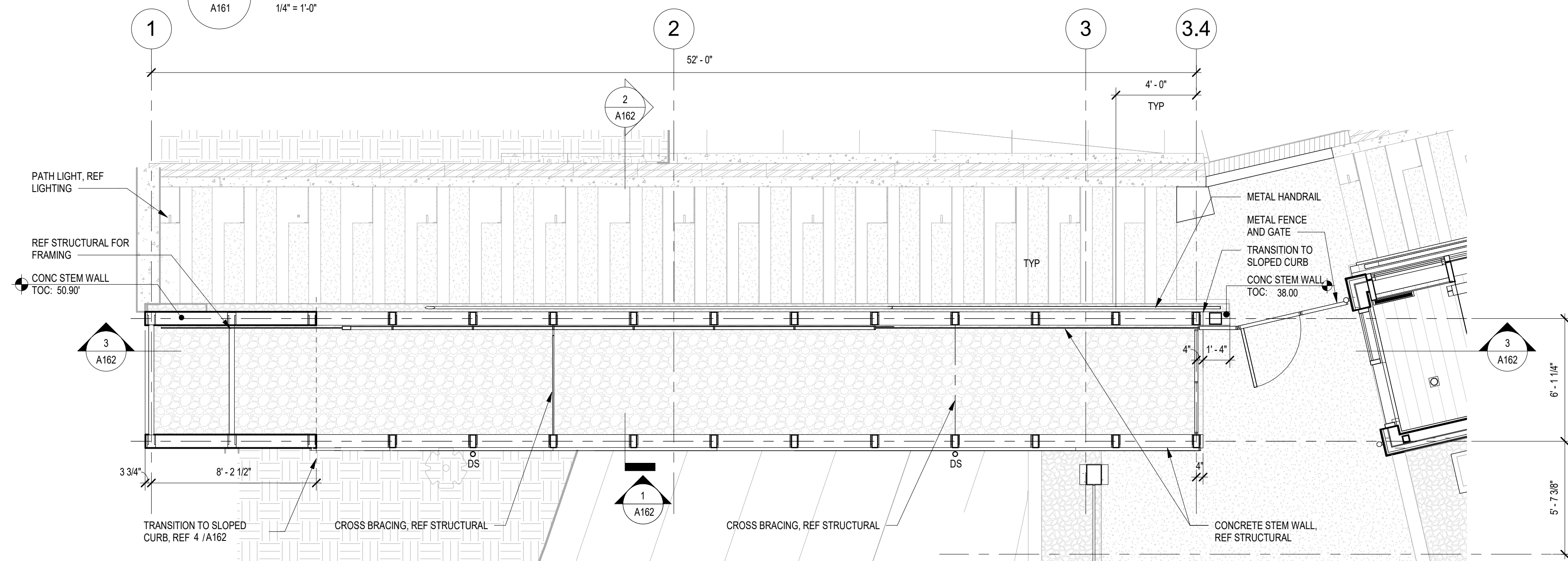
**4 COVERED WALKWAY - RCP**  
A161 1/4" = 1'-0"



**3 COVERED WALKWAY - ROOF PLAN**  
A161 1/4" = 1'-0"



**2 COVERED WALKWAY - LEVEL 3 FLOOR PLAN**  
A161 1/4" = 1'-0"



**1 COVERED WALKWAY - LEVEL 2 FLOOR PLAN / SLAB PLAN**  
A161 1/4" = 1'-0"

**GENERAL COVERED WALKWAY PLAN NOTES**

1. REFERENCE SHEET G101 FOR SITE PLAN.
2. REFERENCE DOOR SCHEDULE ON SHEET A030.
3. REFERENCE WINDOW TYPES ON SHEET A050 FOR SIZES AND U-VALUES.
4. REFERENCE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS, BRACING AND FRAMING.
5. PROVIDE BLOCKING AS NECESSARY FOR ALL WALL HUNG ELEMENTS, REFER TO INTERIOR AND EXTERIOR ELEVATIONS.
6. PROVIDE INSULATION AND HEAT TRACE FREEZE PROTECTION FOR WATER, SOIL, AND WASTE PIPES AT GARAGE.
7. COORDINATE ARCHITECTURAL RCP WITH MECHANICAL, ELECTRICAL, PLUMBING AND LIGHTING.
8. AT EXPOSED WOOD ROOF DECKING NO FASTENERS ARE TO BE VISIBLE THROUGH DECKING. CONFIRM FASTENING METHOD WITH ARCHITECT IN THE FIELD PRIOR TO INSTALLATION.
9. COORDINATE EXACT PLACEMENT OF LIGHT FIXTURES W/ ARCH, LIGHTING DESIGNER AND OWNERS IN THE FIELD. DIMENSIONS PROVIDED FOR REFERENCE ONLY. ALL DIMENSIONS TO BE VERIFIED IN FIELD.
10. COORDINATE EXACT LOCATION OF SPRINKLERS W/ ARCH AND FIRE MARSHAL REQUIREMENTS.



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Seattle, WA 98104  
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Contact: Name

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FEBRUARY 24, 2023

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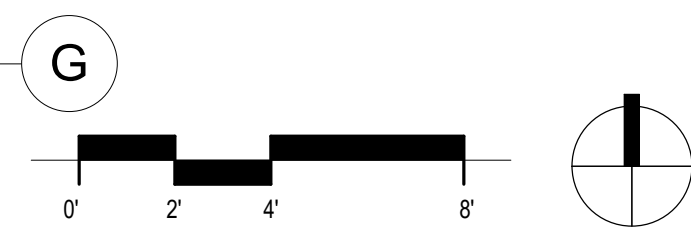
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Drawn: KR  
Checked: AN  
MJH Proj No.: A20.0085.00

Issue Date: FEBRUARY 24, 2023

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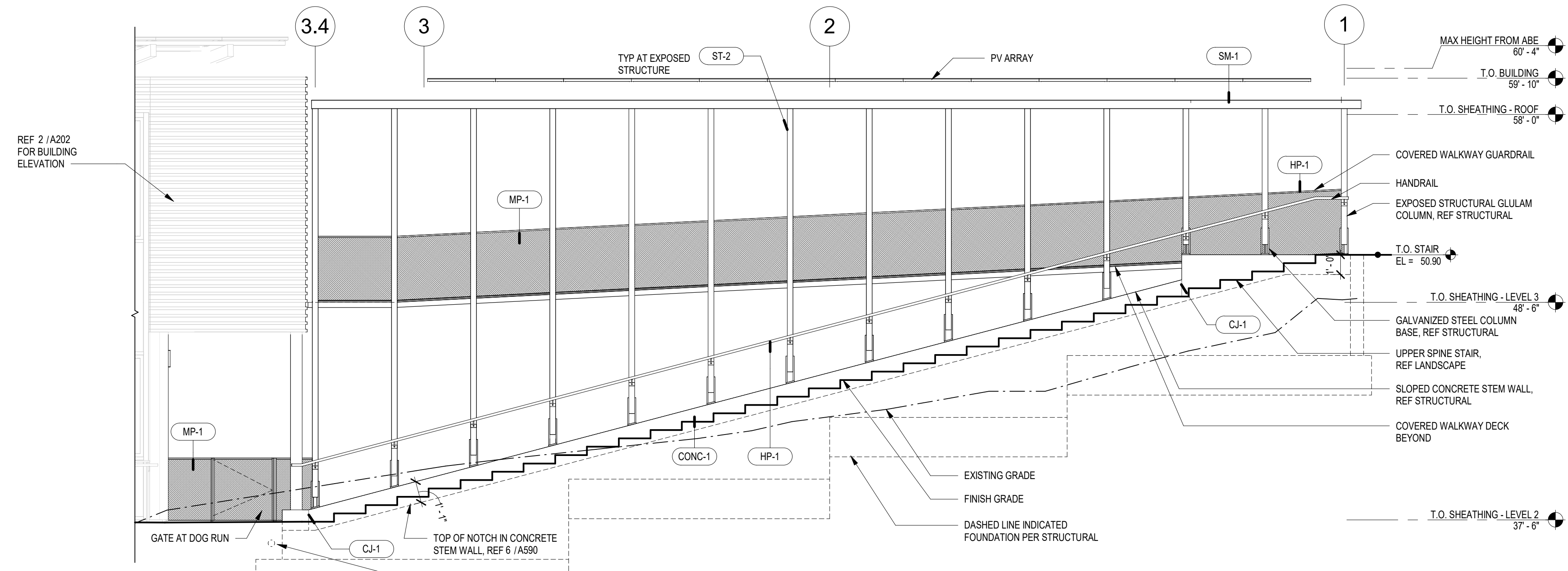
**COVERED WALKWAY PLANS  
A161**



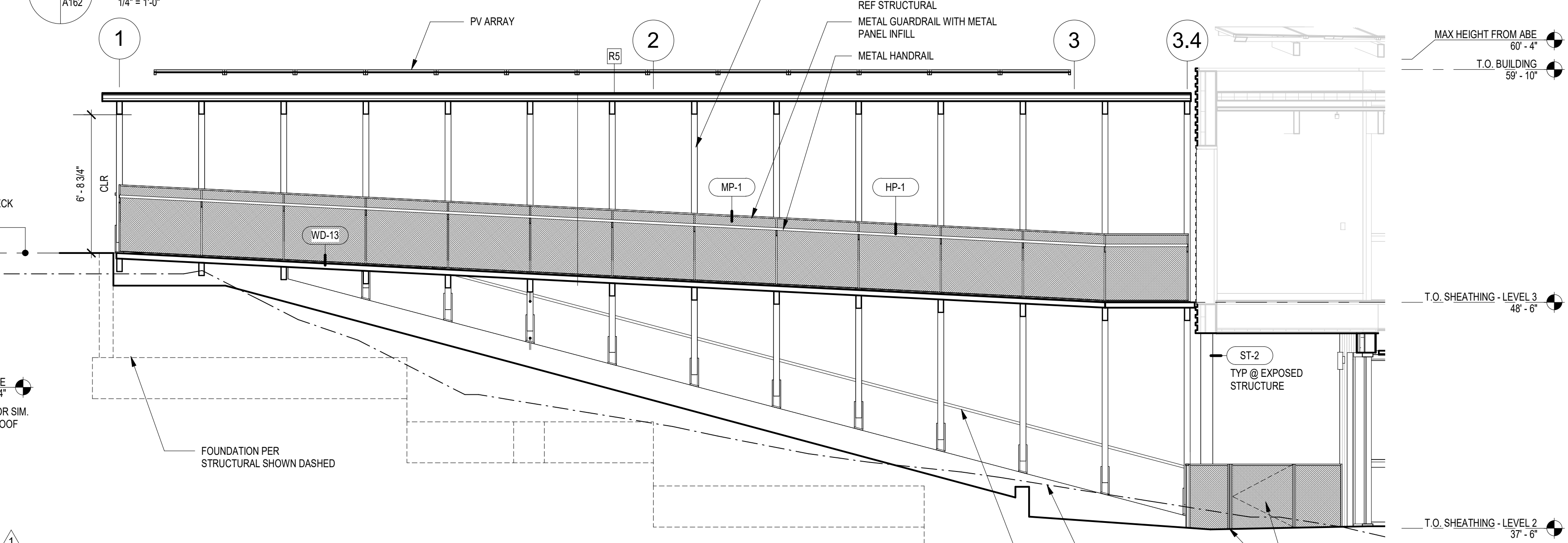
### FINISH LEGEND

REPRESENTS FINISHES ON THIS SHEET ONLY, SEE A030 FOR MASTER FINISH LEGEND

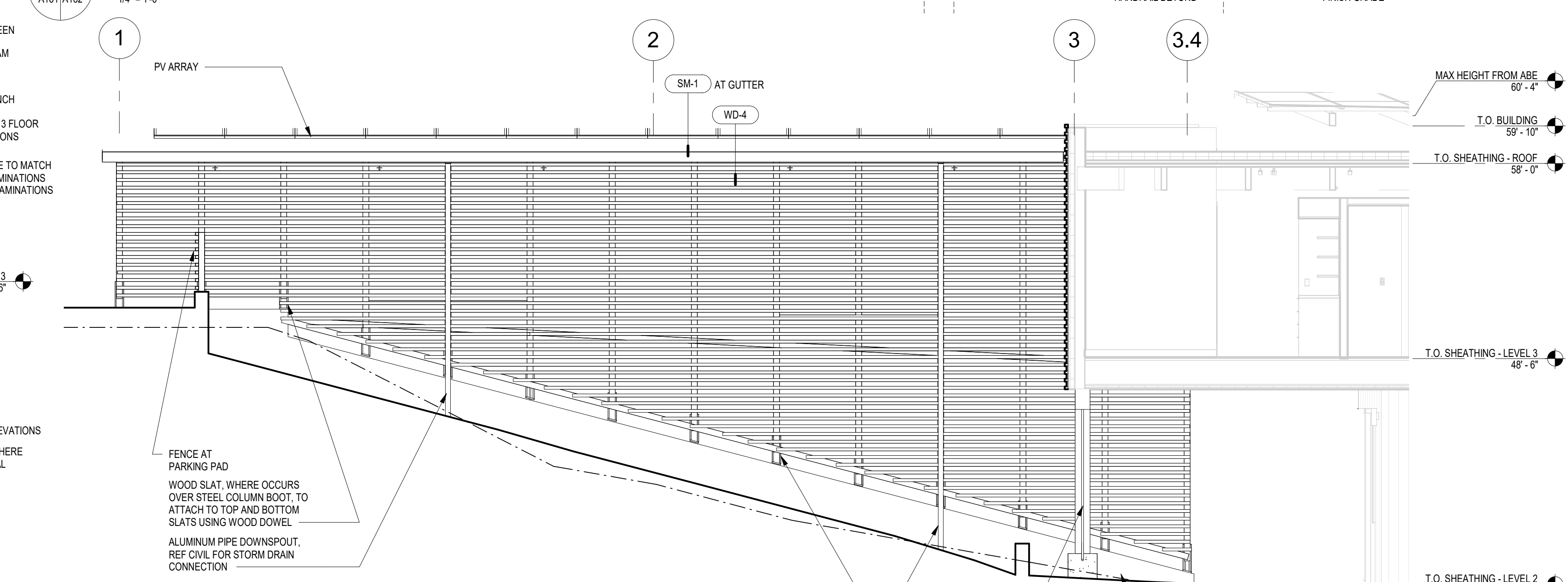
CJ-1	03 30 00 - CONTROL JOINT AT CIP ARCHITECTURAL CONCRETE, CHAMFER STRIP
CONC-1	03 30 00 - CIP ARCHITECTURAL CONCRETE, FORM TIE LOCATIONS TO BE COORDINATED IN SHOP DRAWINGS
HP-1	09 97 13 - HIGH PERFORMANCE COATING
MP-1	05 51 41 - PERFORATED METAL PANEL
SM-1	07 62 00 - SHEET METAL TRIM, REFERENCE DETAILS. FINISH TO MATCH ADJACENT MATERIAL
ST-2	09 93 13 - EXTERIOR WOOD FINISH
ST-3	09 93 13 - EXTERIOR WOOD FINISH - WALKING SURFACE
WD-4	07 36 23 - HORIZONTAL WOOD KEBONY SLATS OVER WOOD SUPPORTS, REF DETAILS AND A030
WD-13	06 15 00 - EXTERIOR GLULAM DECKING



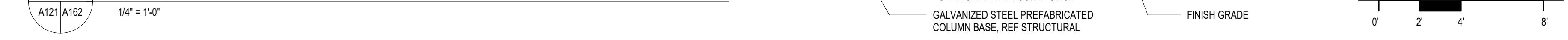
### 4 NORTH ELEVATION - COVERED WALKWAY AT STAIR



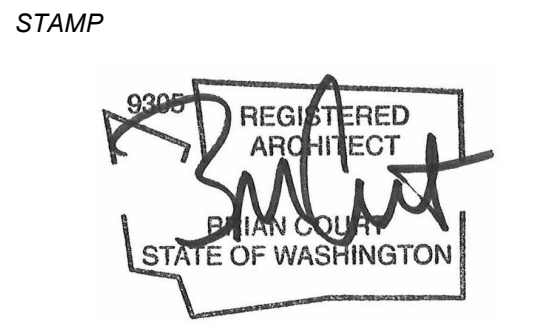
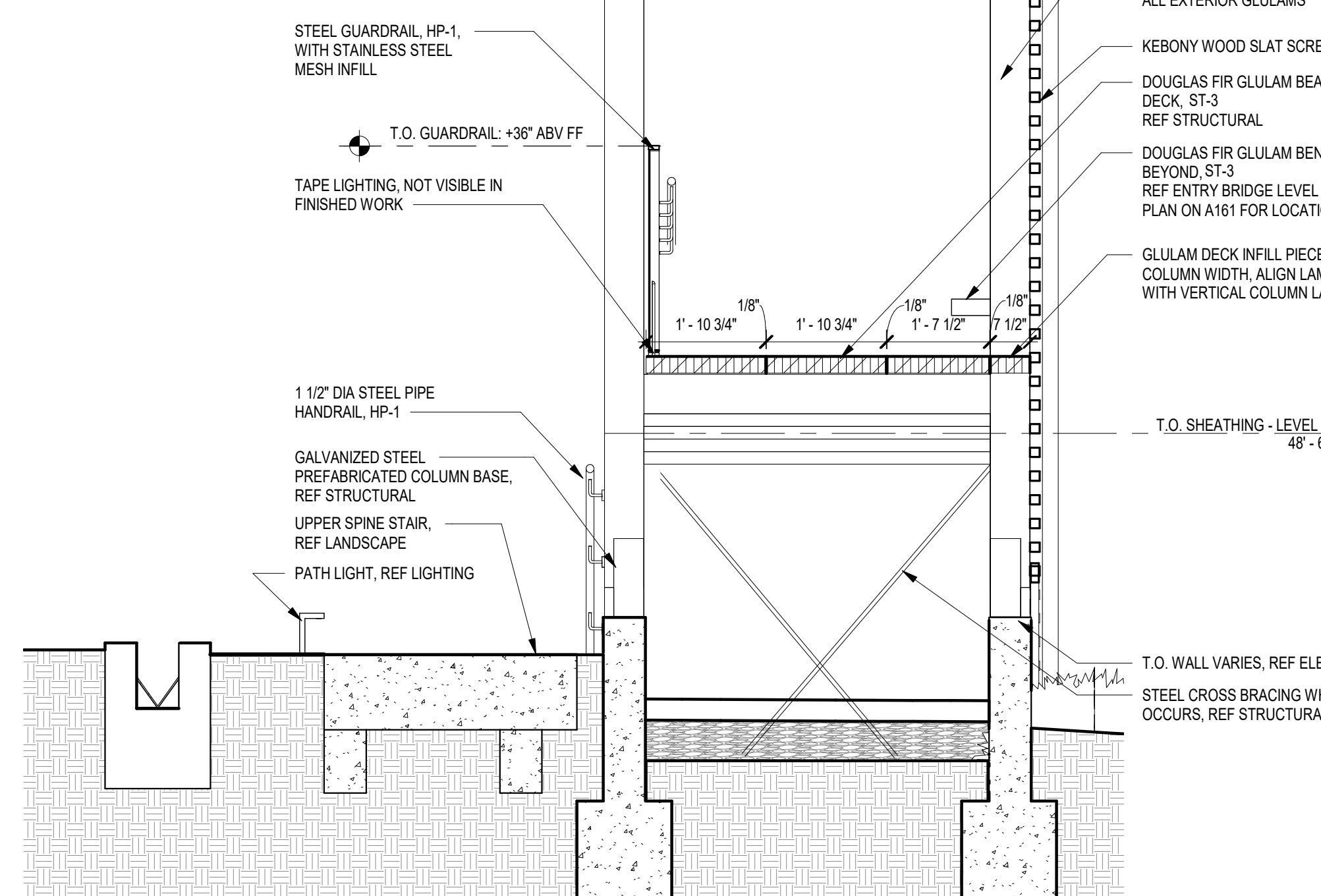
### 3 EW SECTION - COVERED WALKWAY



### 1 SOUTH ELEVATION - COVERED WALKWAY AT DOG RUN



### 2 NS SECTION - COVERED WALKWAY



## MERCER ISLAND HOUSE: CASCADE

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040  
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## 100% CONSTRUCTION DOCUMENTS

FEBRUARY 24, 2023

No.	Description	Date
1	Building Permit Resubmittal	10/27/22

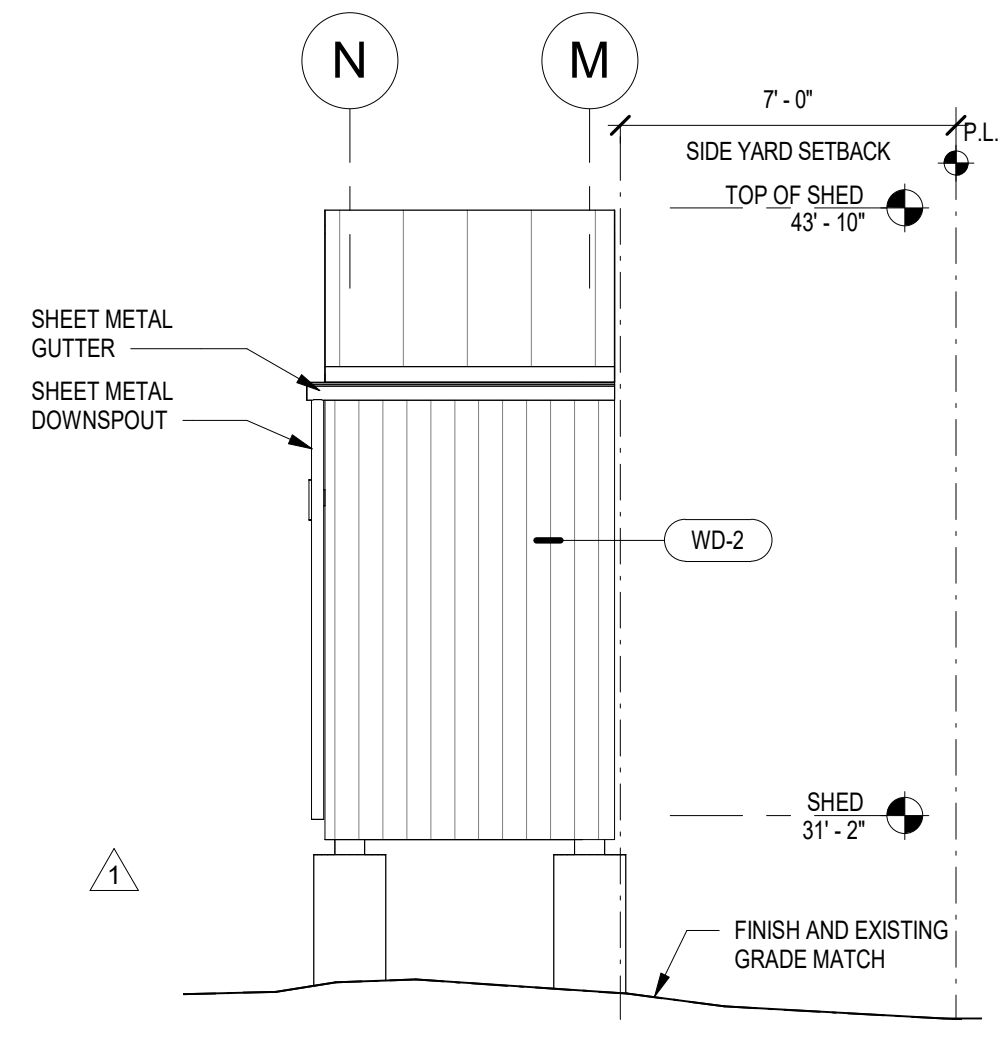
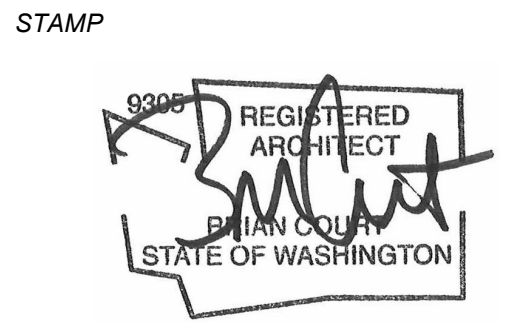
Drawn: KR  
 Checked: AN  
 MJH Proj No.: A20.0085.00  
 Issue Date: FEBRUARY 24, 2023

## COVERED WALKWAY ELEV, SECTIONS A162

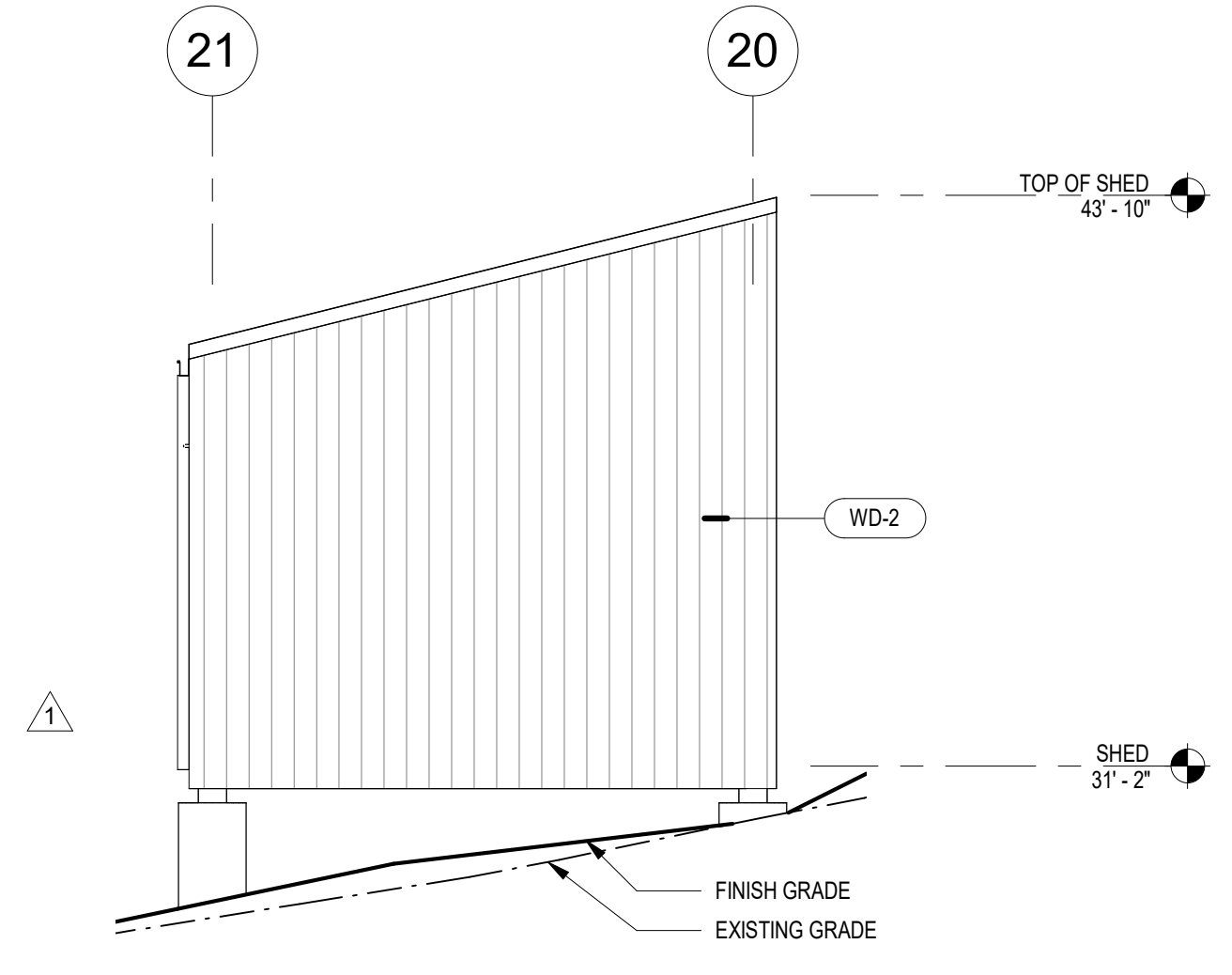
**FINISH LEGEND**  
 REPRESENTS FINISHES ON THIS SHEET ONLY, SEE A030 FOR MASTER FINISH LEGEND  
 WD-2 | 07 46 23 - VERTICAL T&G KEBONY SIDING, REF DETAILS AND A030



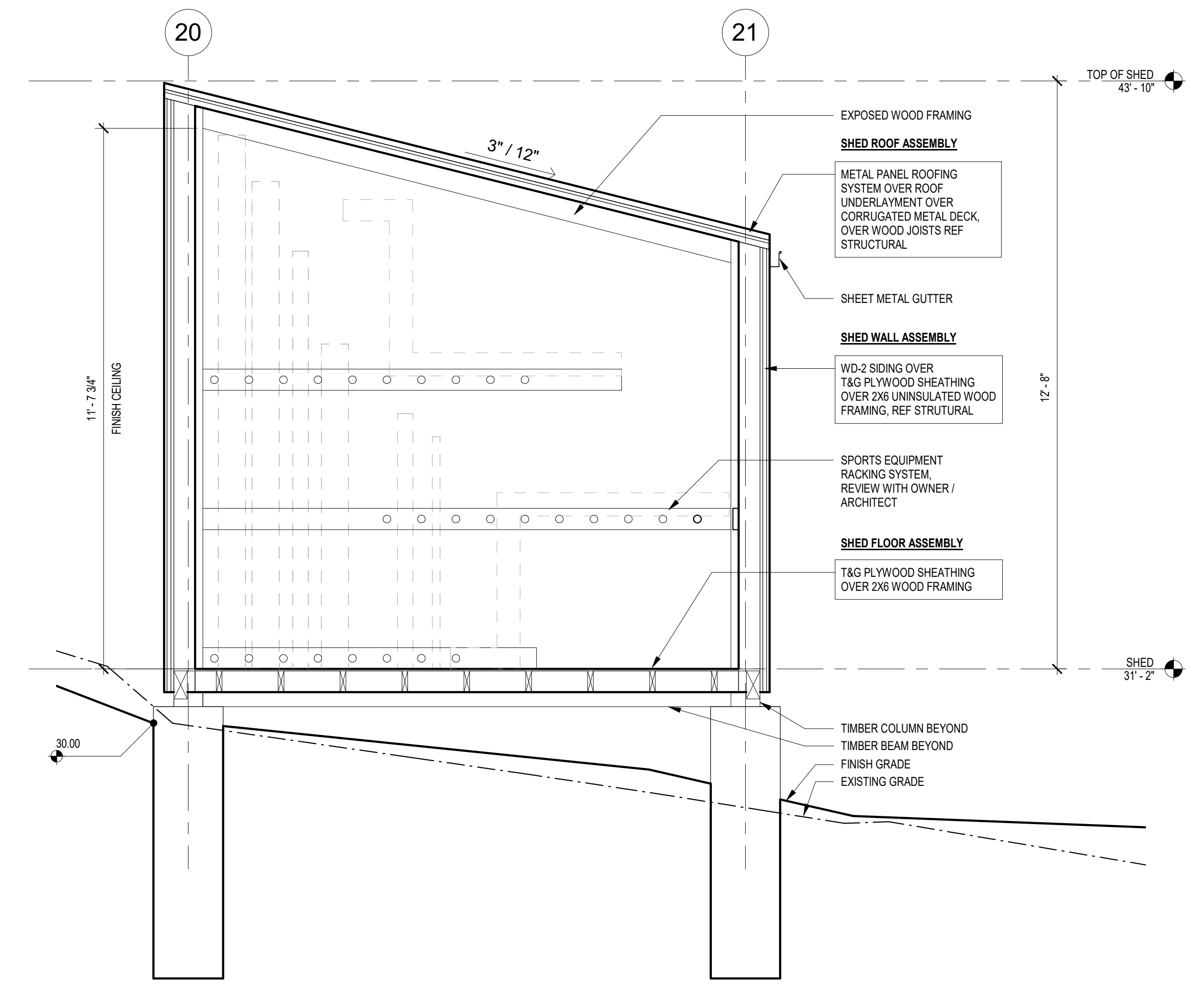
The Miller Hull Partnership, LLP  
 Architecture and Planning  
 Polson Building  
 71 Columbia, Sixth Floor  
 Seattle, WA 98104  
 Phone: 206.682.6837  
 Contact: Name



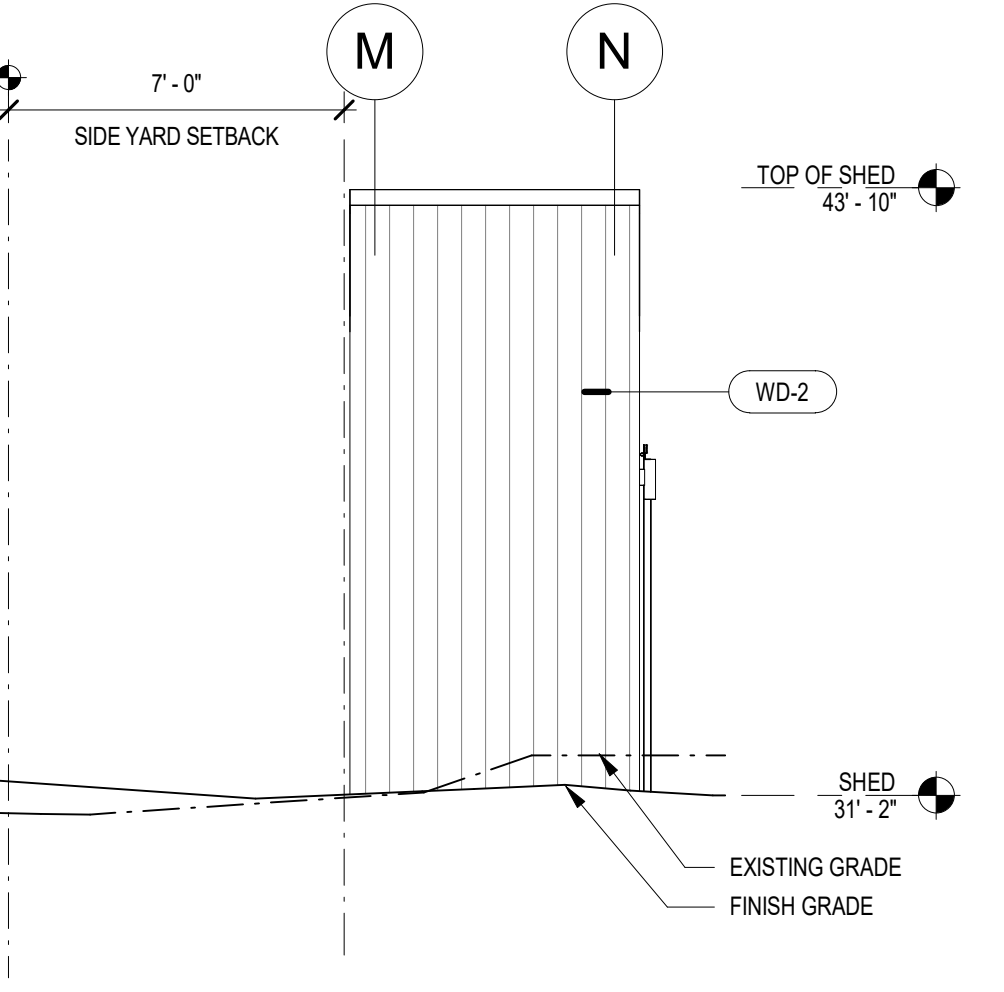
**4 SHED - EAST**  
 A171 1/4" = 1'-0"



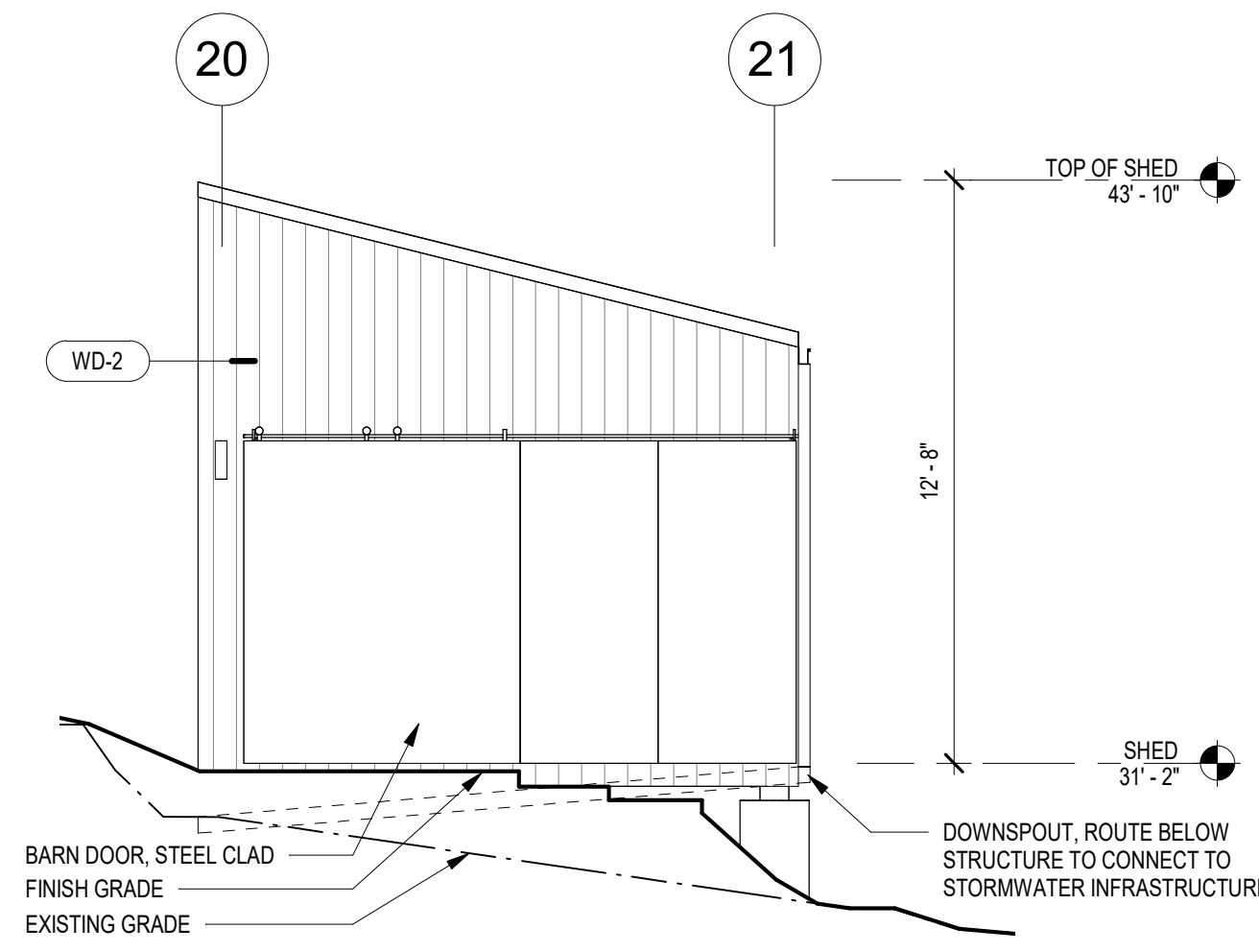
**5 SHED - NORTH**  
 A171 1/4" = 1'-0"



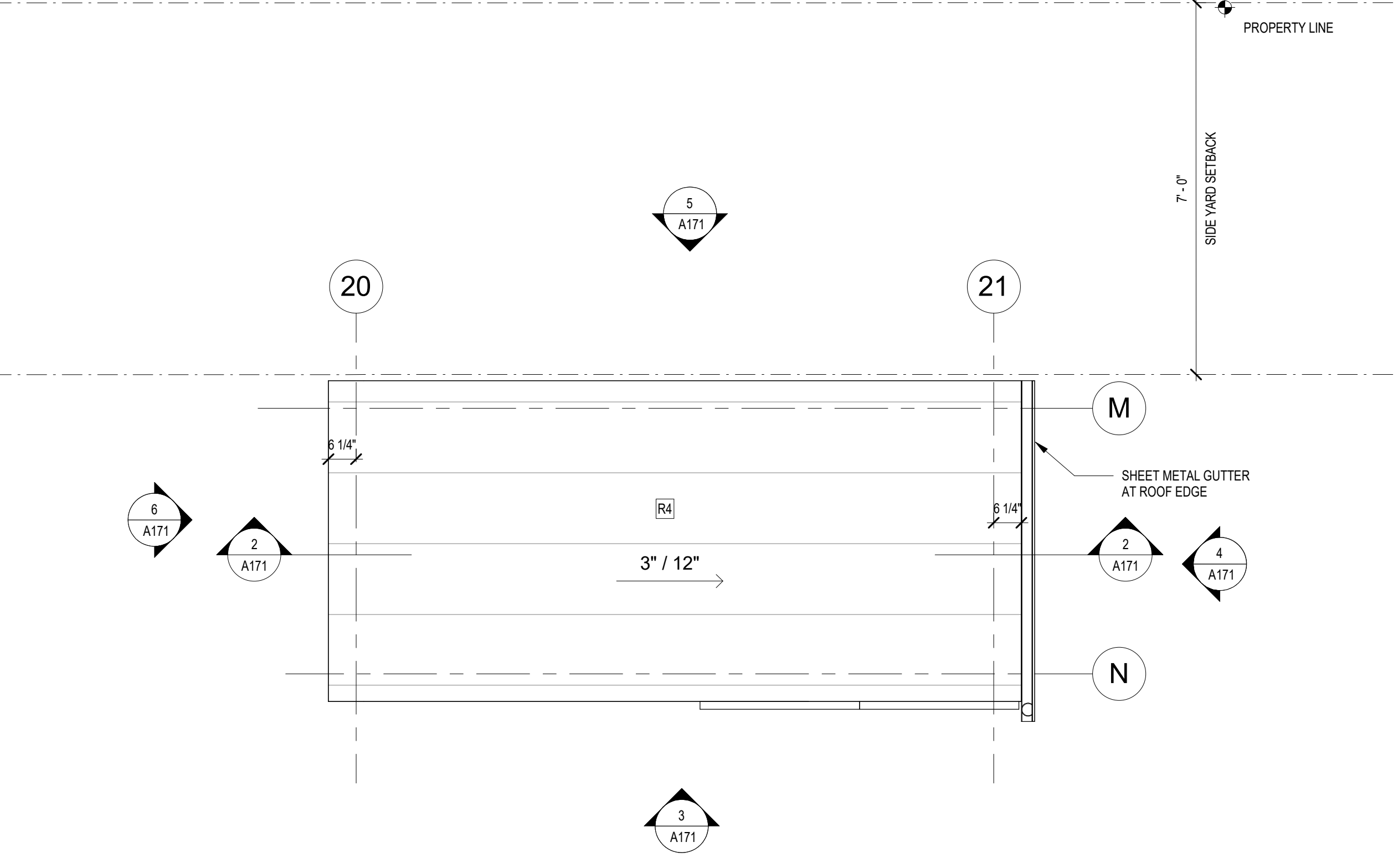
**2 SHED - EW SECTION**  
 A171 1/2" = 1'-0"



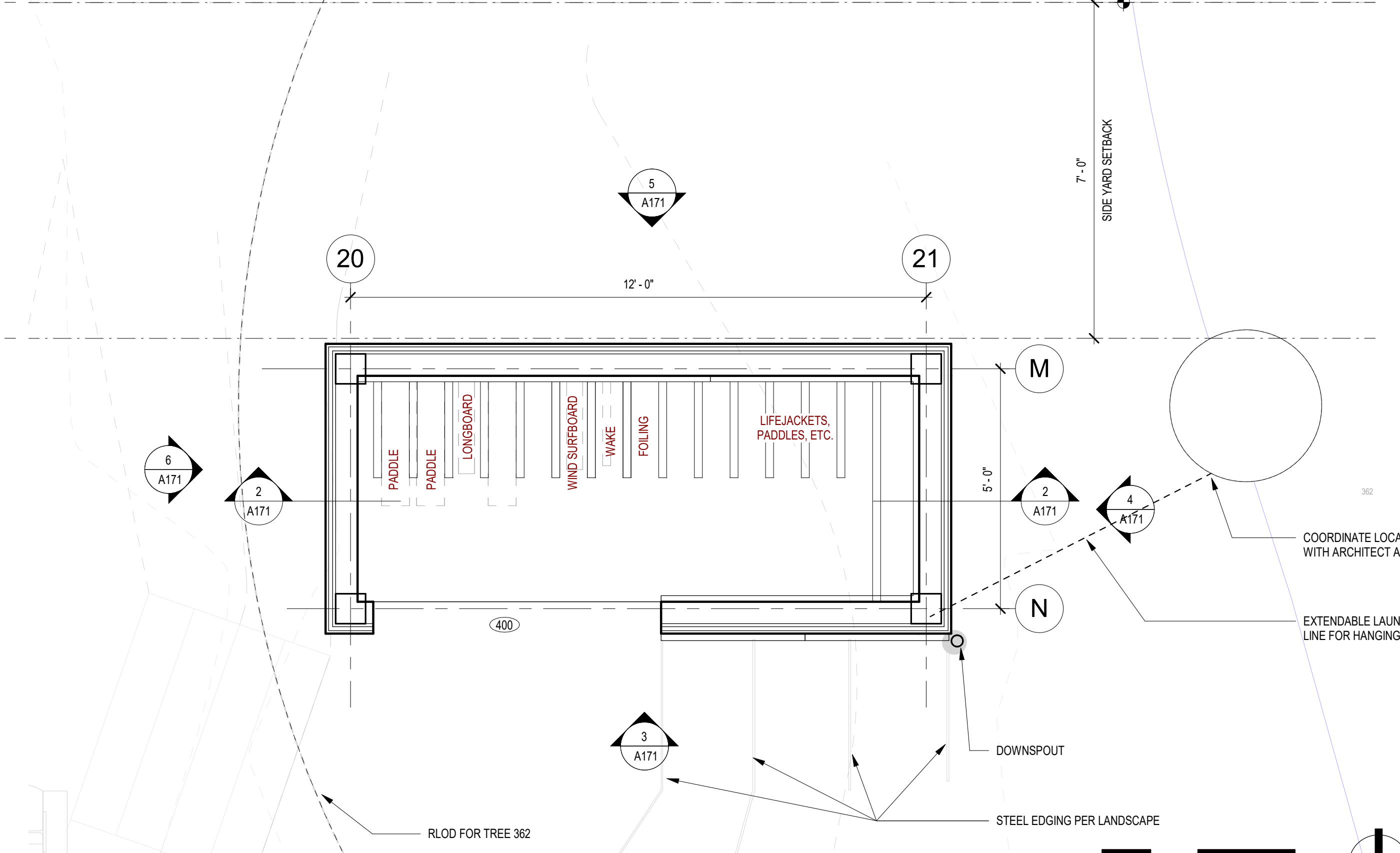
**6 SHED - WEST**  
 A171 1/4" = 1'-0"



**3 SHED - SOUTH**  
 A171 1/4" = 1'-0"



**7 ENL PLAN - SHED ROOF PLAN**  
 A171 1/2" = 1'-0"



**1 ENL PLAN - SHED**  
 A171 1/2" = 1'-0"

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6838 96TH AVE SE  
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No.	Description	Date
1	Building Permit Resubmittal	10/27/22

Drawn: BM  
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 Issue Date: FEBRUARY 24, 2023

SHEET

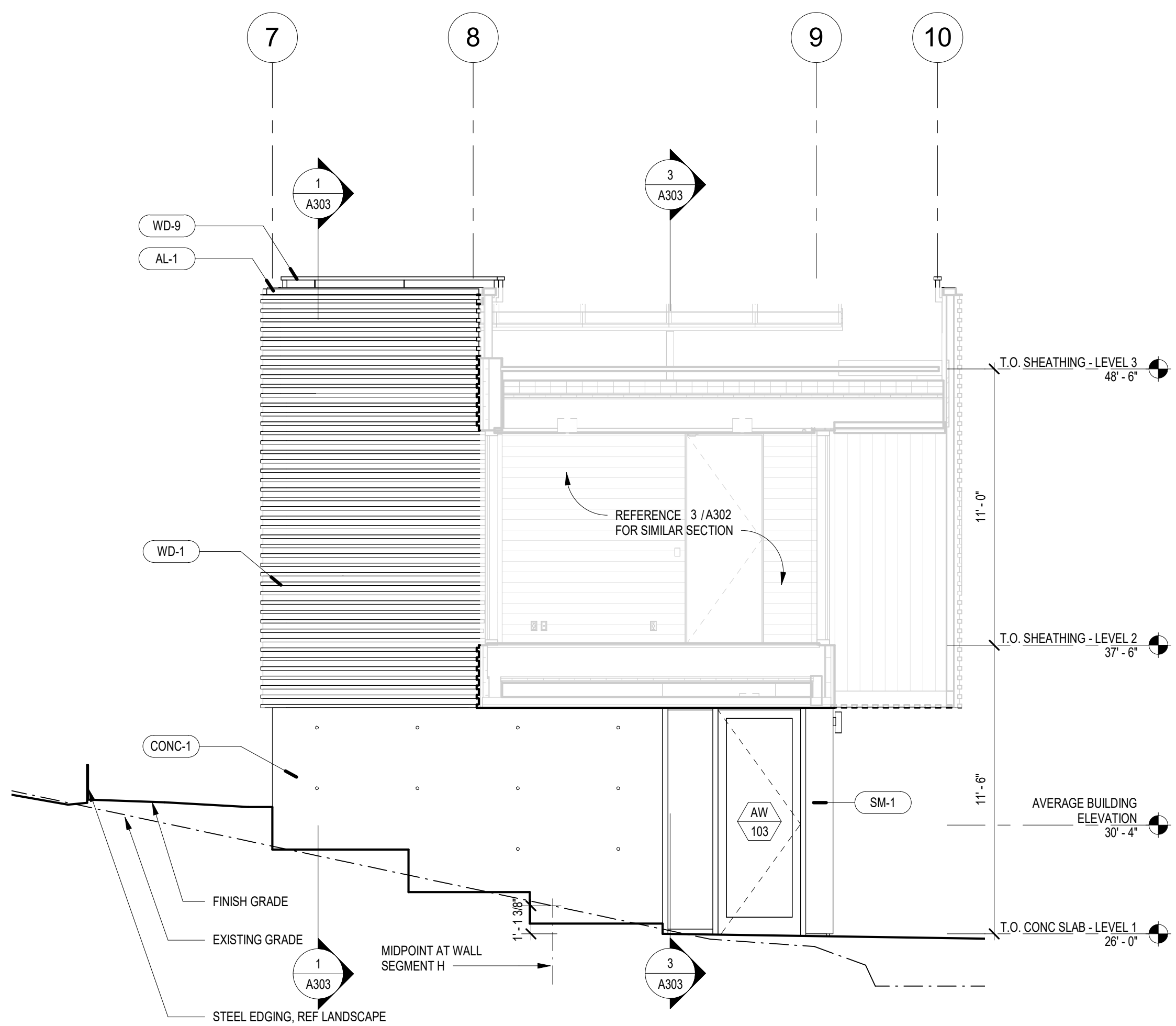
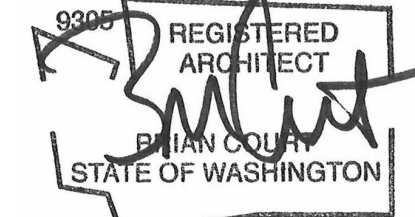
**SHED PLANS, ELEV, SECTION A171**

**FINISH LEGEND**

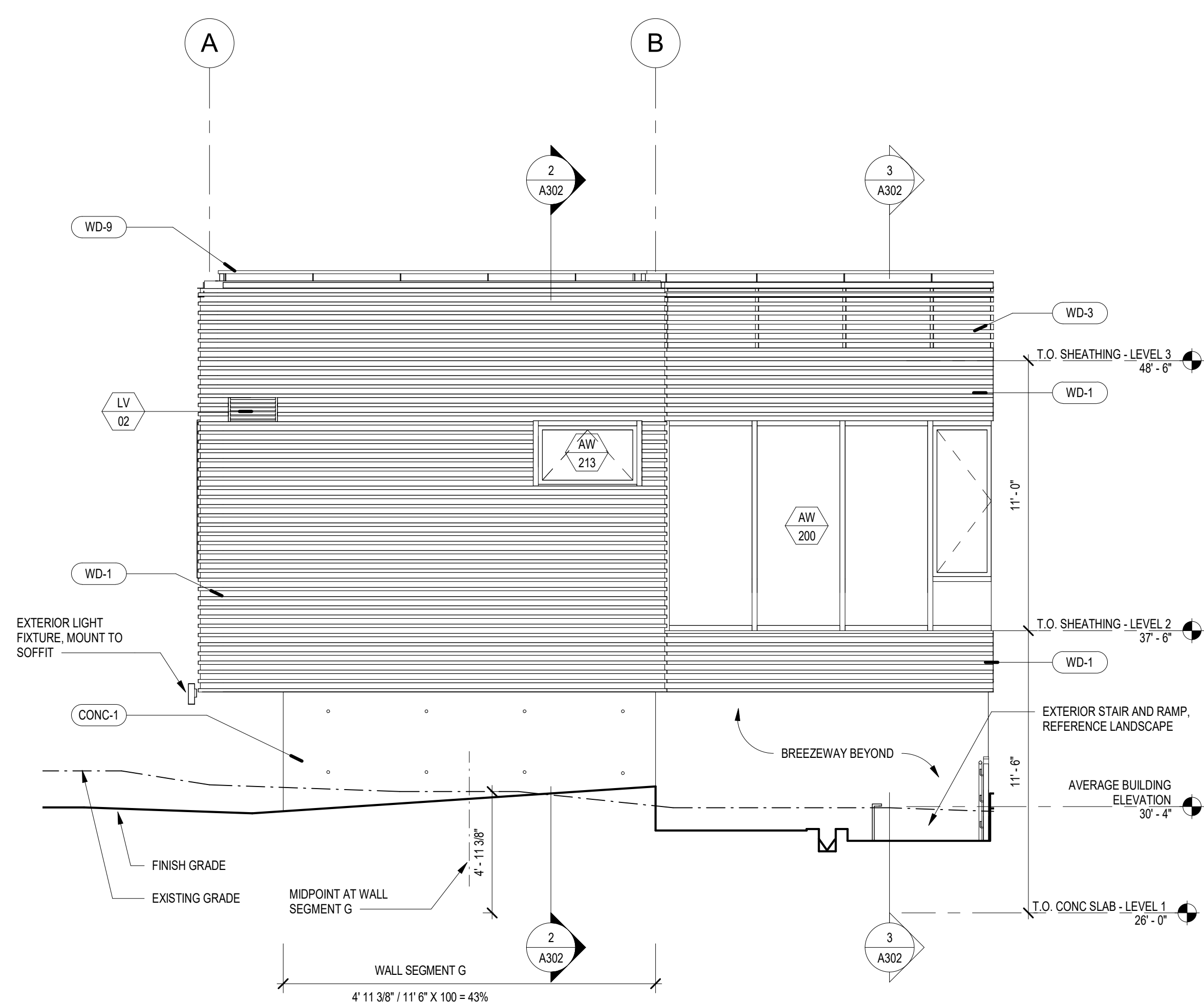
REPRESENTS FINISHES ON THIS SHEET ONLY, SEE A030 FOR MASTER FINISH LEGEND

AL-1	05 50 00 - POWDERCOATED ALUMINUM
CONC-1	03 30 00 - CIP ARCHITECTURAL CONCRETE, FORM TIE LOCATIONS TO BE COORDINATED IN SHOP DRAWINGS
SM-1	07 62 00 - SHEET METAL TRIM, REFERENCE DETAILS. FINISH TO MATCH ADJACENT MATERIAL
WD-1	07 46 23 - HORIZONTAL RIBBED KEBONY SIDING, REF DETAILS AND A030
WD-2	07 46 23 - VERTICAL T&G KEBONY SIDING, REF DETAILS AND A030
WD-3	07 36 23 - HORIZONTAL WOOD KEBONY SLATS OVER STEEL SUPPORTS. STEEL SUPPORTS TO BE PAINTED WITH HIGH PERFORMANCE PAINT, REF DETAILS AND A030
WD-7	06 40 00 - KEBONY HANDRAIL WITH HP-1 STEEL SUPPORTS
WD-9	06 40 00 - INTERIOR STAIR WOOD HANDRAIL

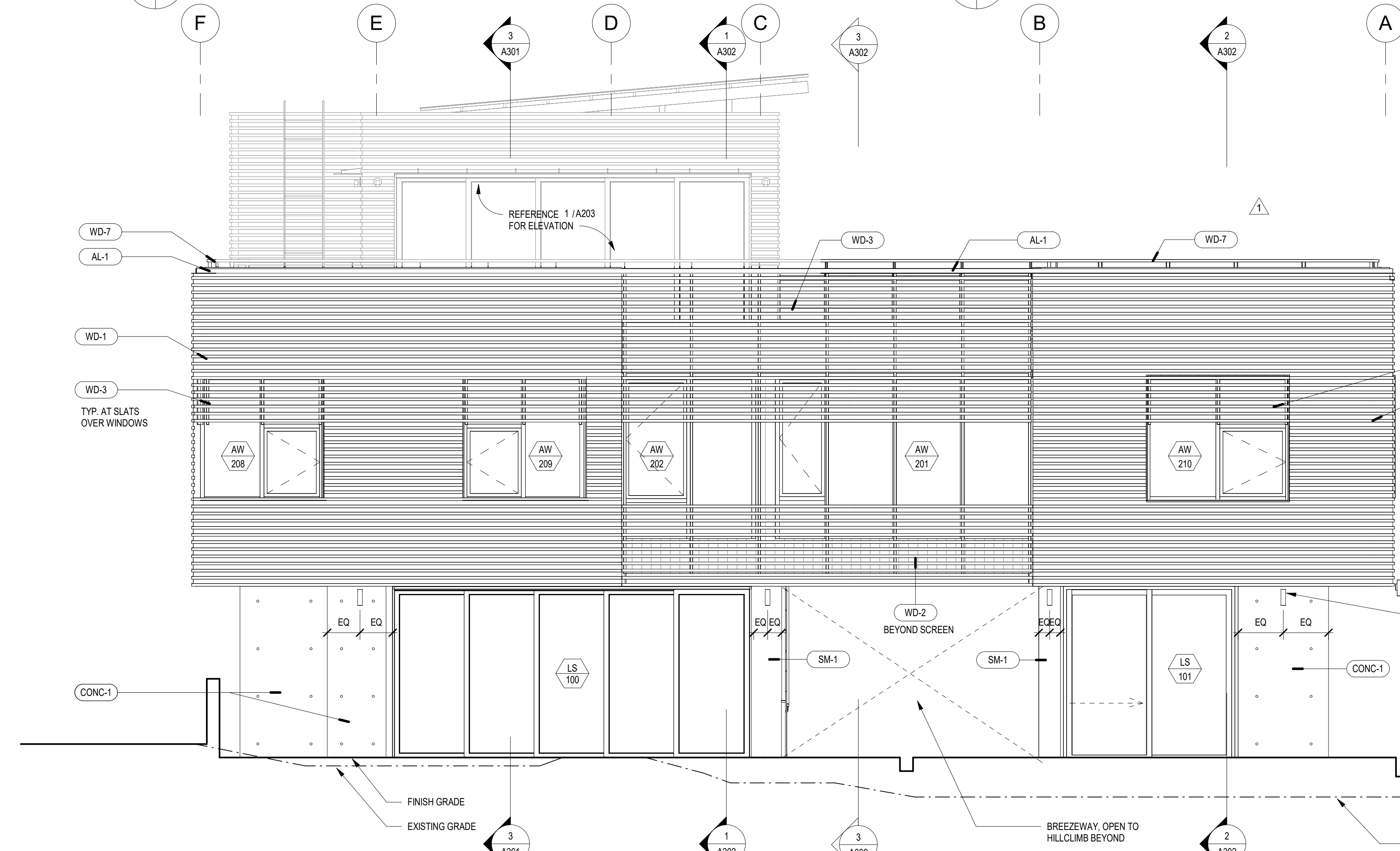
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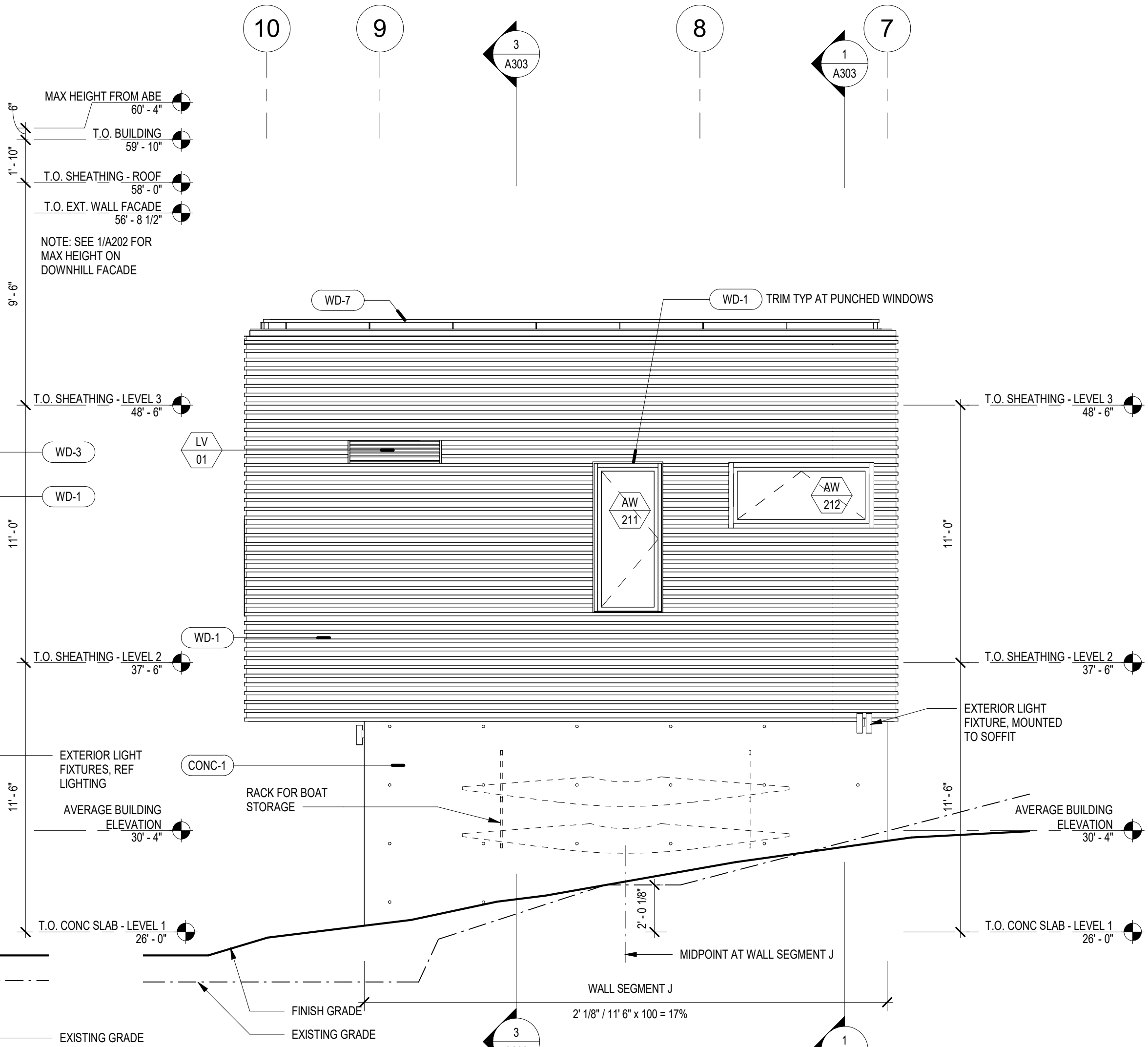
**4 SOUTH ELEVATION - BREEZEWAY**  
 A111/A201 1/4" = 1'-0"



**3 WEST ELEVATION**  
 A111/A201 1/4" = 1'-0"



**2 EAST ELEVATION**  
 A111/A201 1/4" = 1'-0"



**1 NORTH ELEVATION**  
 A111/A201 1/4" = 1'-0"

**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

SUBMITTAL

**100% CONSTRUCTION DOCUMENTS**

FEBRUARY 24, 2023

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No.	Description	Date
1	Building Permit Resubmittal	10/27/22

Drawn: AN  
 Checked: AN  
 MJH Proj No.: A20.0085.00

Issue Date: FEBRUARY 24, 2023

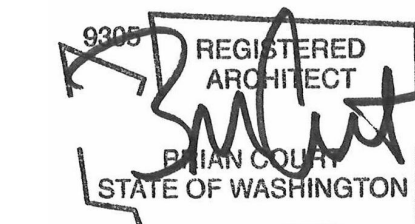
SHEET

**BUILDING ELEVATIONS A201**





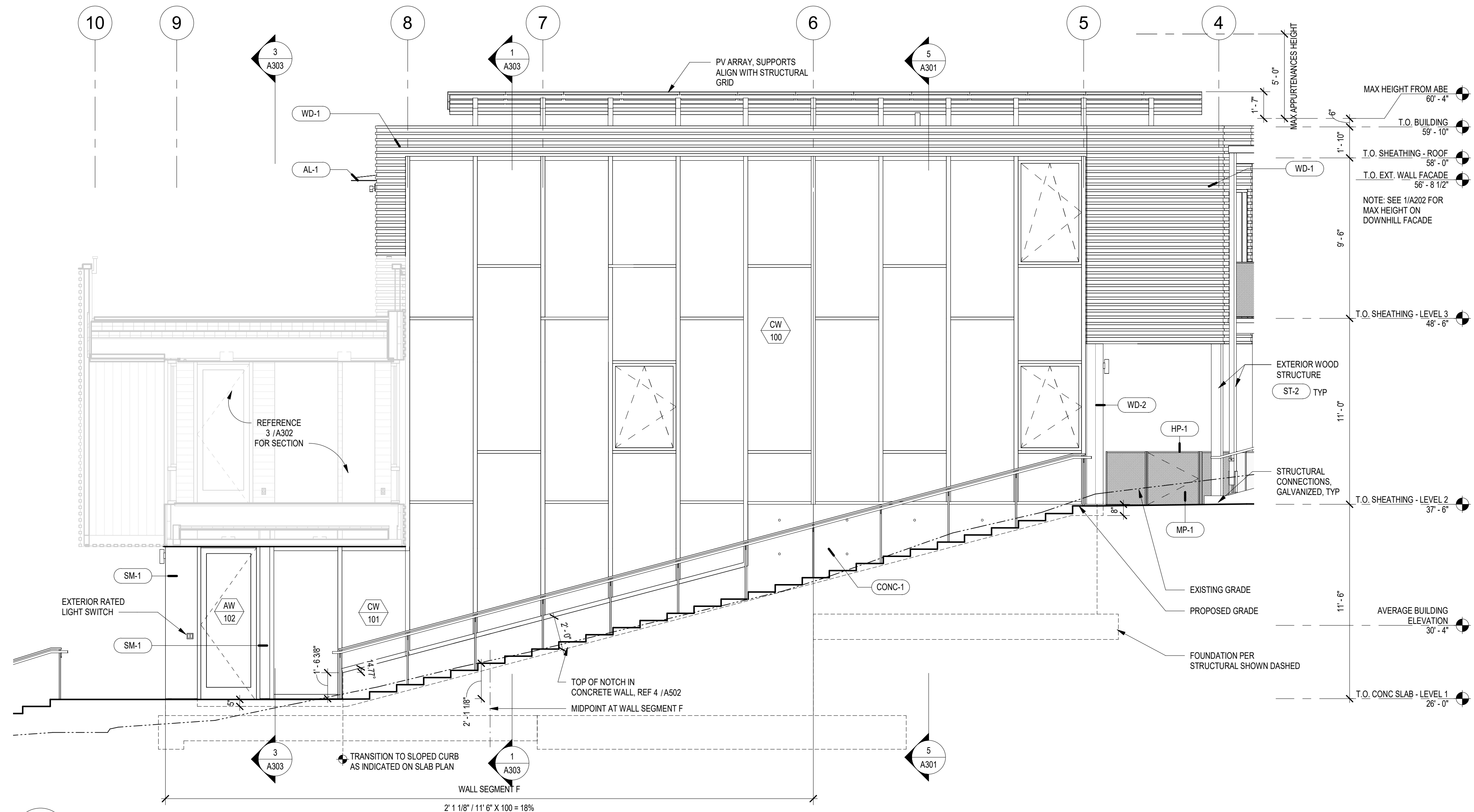
STAMP



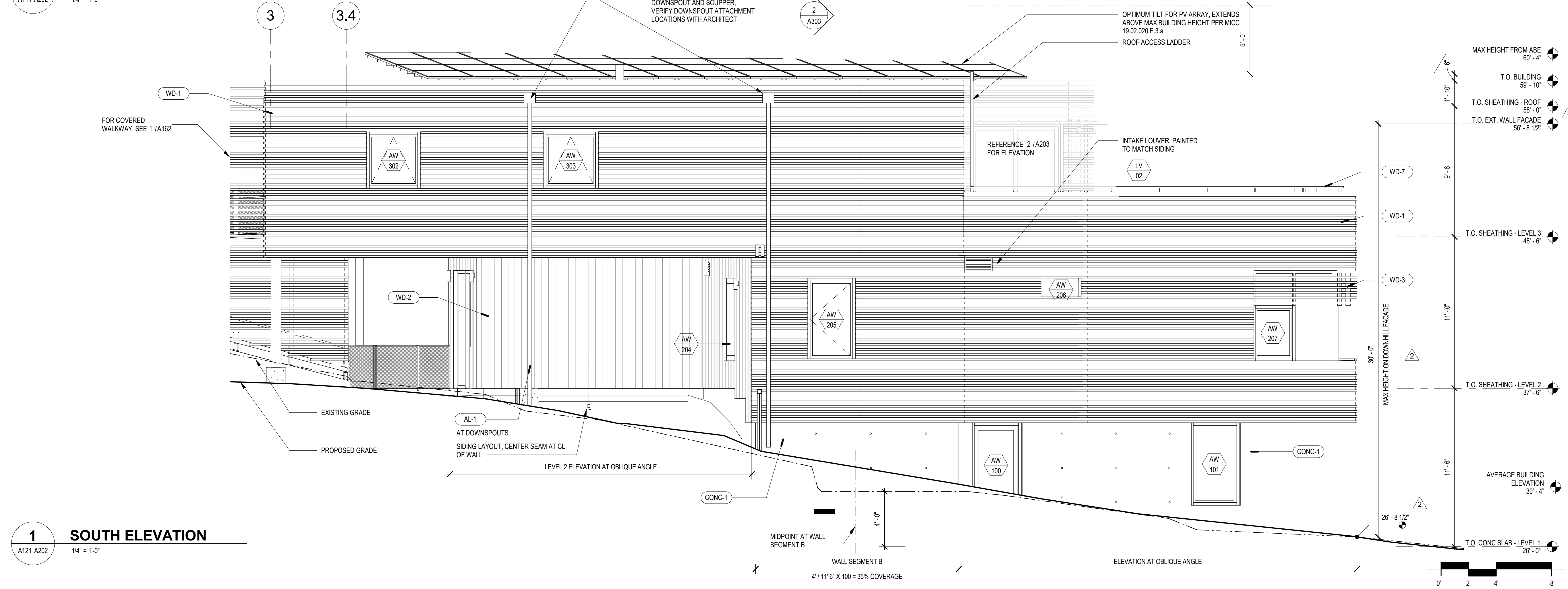
**FINISH LEGEND**

REPRESENTS FINISHES ON THIS SHEET ONLY, SEE A030 FOR MASTER FINISH LEGEND

AL-1	05 50 00 - POWDERCOATED ALUMINUM
CONC-1	03 30 00 - CIP ARCHITECTURAL CONCRETE, FORM TIE LOCATIONS TO BE COORDINATED IN SHOP DRAWINGS
HP-1	09 97 13 - HIGH PERFORMANCE COATING
MP-1	05 51 41 - PERFORATED METAL PANEL
SM-1	07 62 00 - SHEET METAL TRIM, REFERENCE DETAILS. FINISH TO MATCH ADJACENT MATERIAL
ST-2	09 93 13 - EXTERIOR WOOD FINISH
WD-1	07 46 23 - HORIZONTAL RIBBED KEBONY SIDING, REF DETAILS AND A030
WD-2	07 46 23 - VERTICAL T&G KEBONY SIDING, REF DETAILS AND A030
WD-3	07 36 23 - HORIZONTAL WOOD KEBONY SLATS OVER STEEL SUPPORTS, STEEL SUPPORTS TO BE PAINTED WITH HIGH PERFORMANCE PAINT, REF DETAILS AND A030
WD-7	06 40 00 - KEBONY HANDRAIL WITH HP-1 STEEL SUPPORTS



**2 HILLCLIMB SOUTH ELEVATION / SECTION**  
 A111 A202 1/4" = 1'-0"



**1 SOUTH ELEVATION**  
 A121 A202 1/4" = 1'-0"

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6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

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FEBRUARY 24, 2023

REVISIONS

No.	Description	Date
1	Building Permit Resubmittal	10/27/22
2	Building Permit Resubmittal	2/16/23

Drawn: AN  
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 MJH Proj No.: A20.0085.00  
 Issue Date: FEBRUARY 24, 2023

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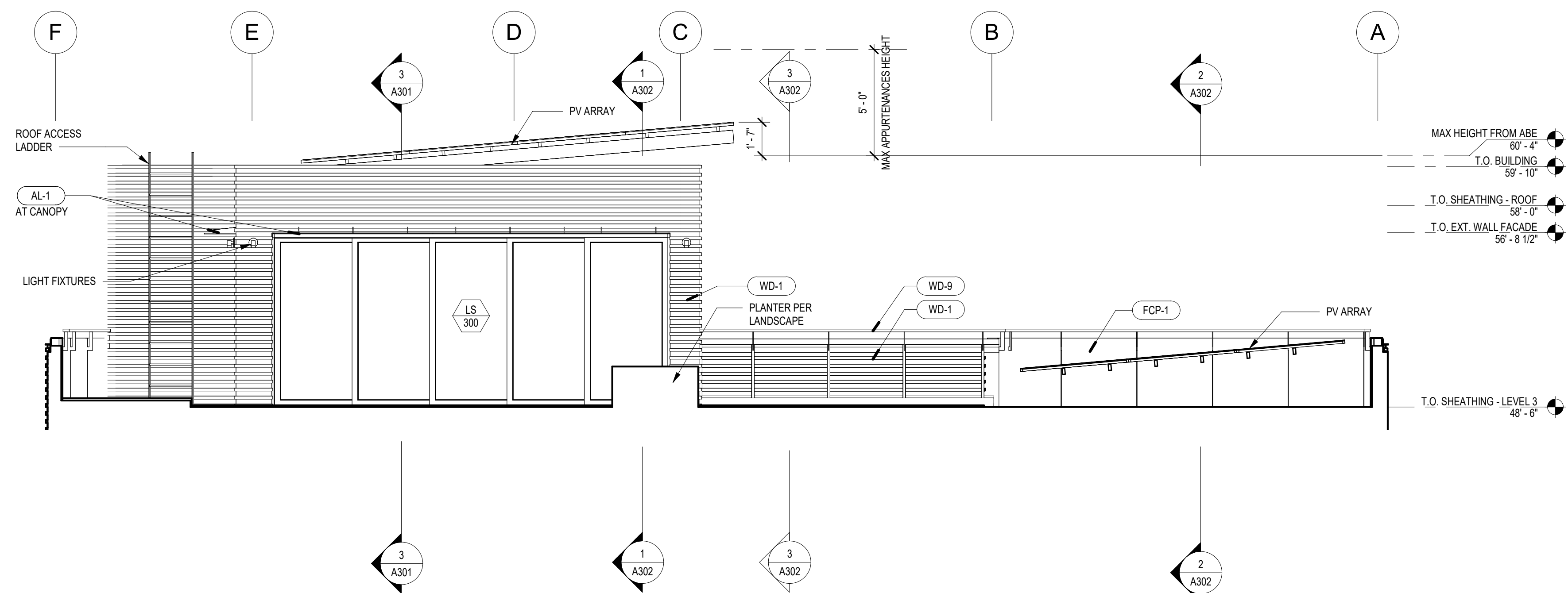
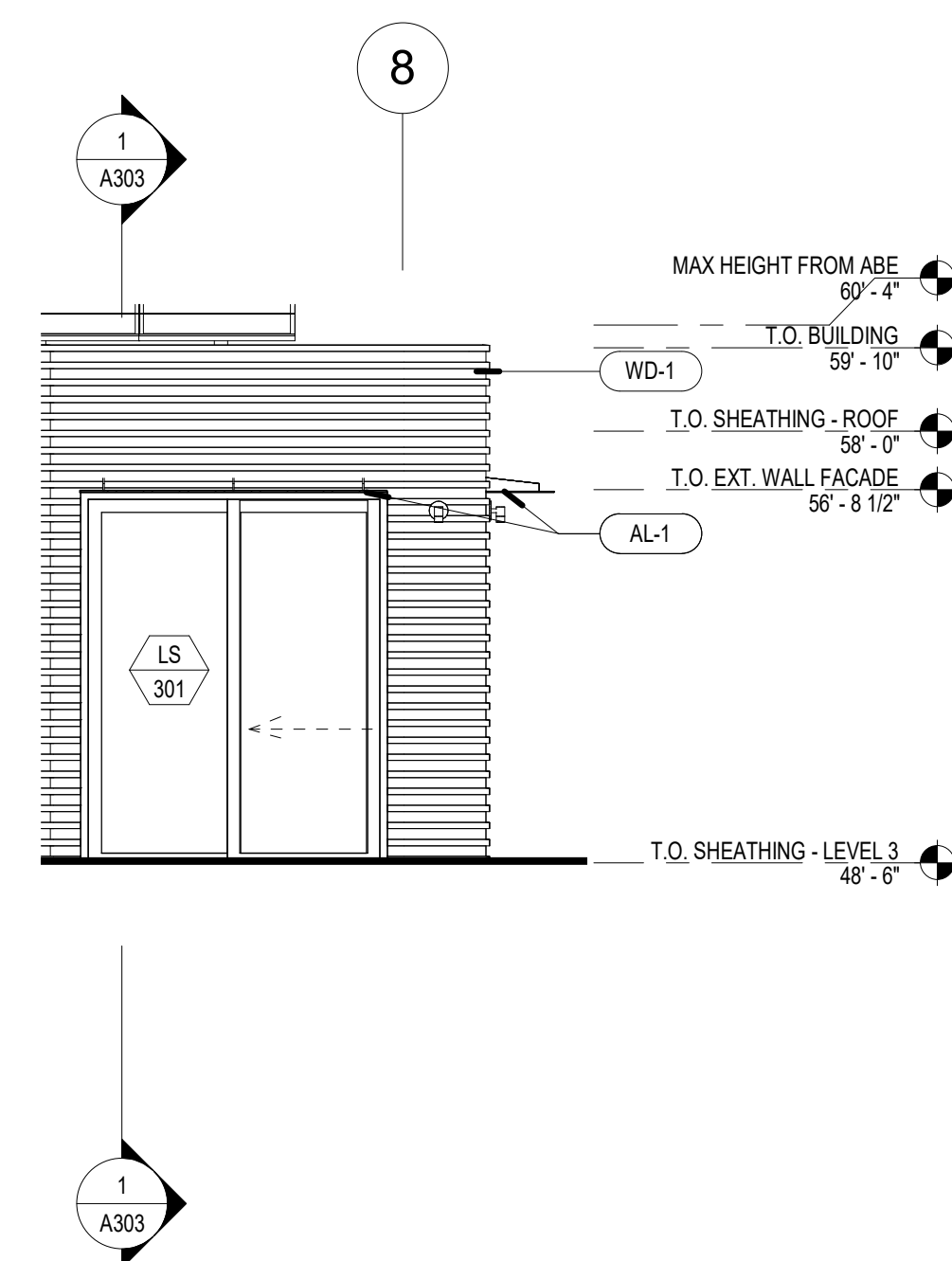
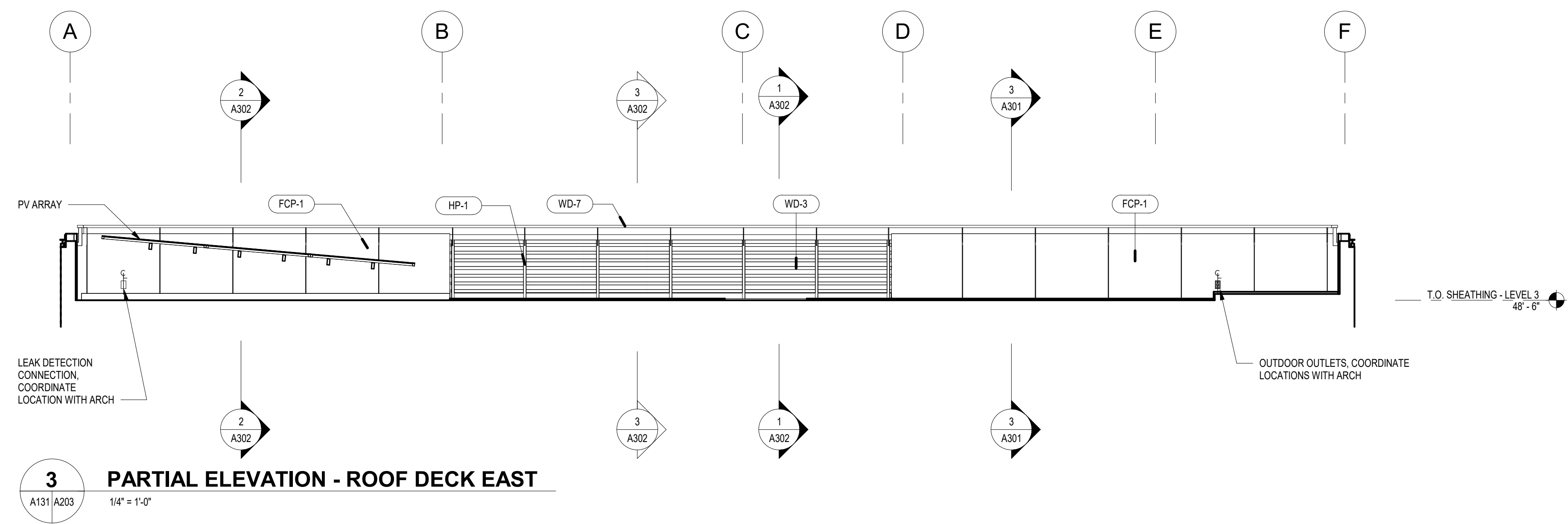
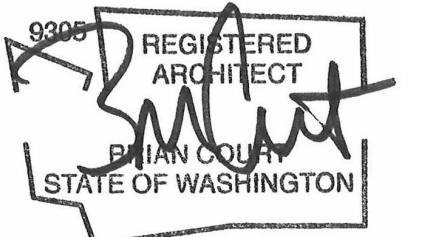
**BUILDING ELEVATIONS A202**

**FINISH LEGEND**

REPRESENTS FINISHES ON THIS SHEET ONLY, SEE A030 FOR MASTER FINISH LEGEND

AL-1	05 50 00 - POWDERCOATED ALUMINUM
FCP-1	07 46 46 - FIBER CEMENT SIDING
HP-1	09 97 13 - HIGH PERFORMANCE COATING
WD-1	07 46 23 - HORIZONTAL RIBBED KEBONY SIDING, REF DETAILS AND A030
WD-3	07 36 23 - HORIZONTAL WOOD KEBONY SLATS OVER STEEL SUPPORTS, STEEL SUPPORTS TO BE PAINTED WITH HIGH PERFORMANCE PAINT, REF DETAILS AND A030
WD-7	06 40 00 - KEBONY HANDRAIL WITH HP-1 STEEL SUPPORTS
WD-9	06 40 00 - INTERIOR STAIR WOOD HANDRAIL

STAMP



**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

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FEBRUARY 24, 2023

REVISIONS

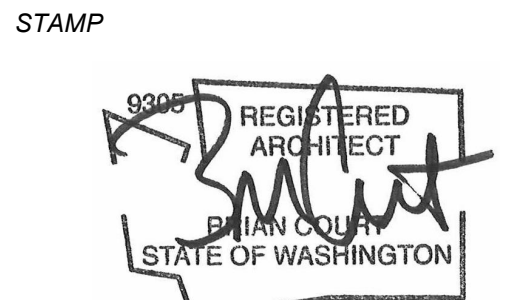
No.	Description	Date

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 Checked: AN  
 MJH Proj No.: A20.0085.00  
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**BUILDING ELEVATIONS A203**





**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

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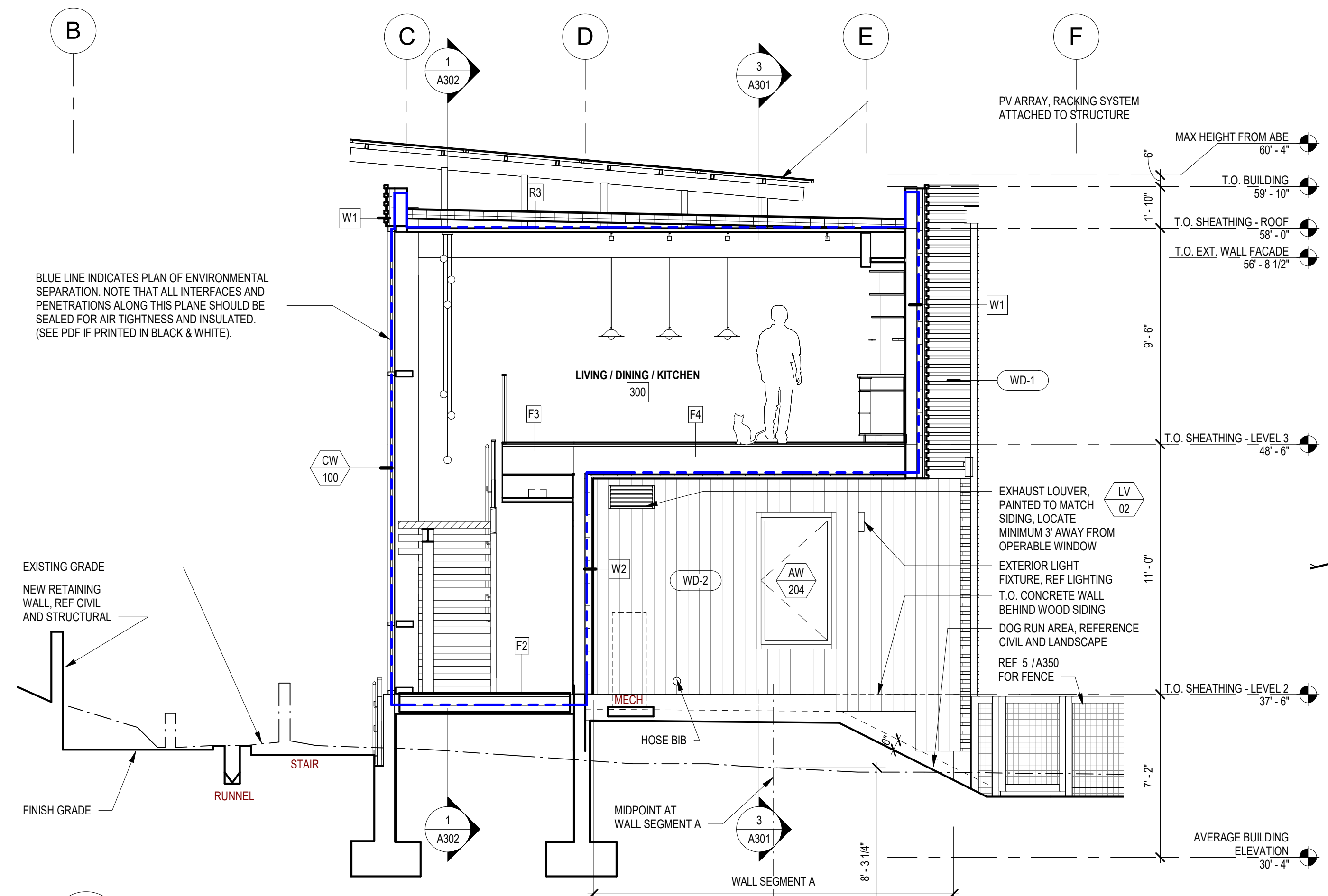
FEBRUARY 24, 2023

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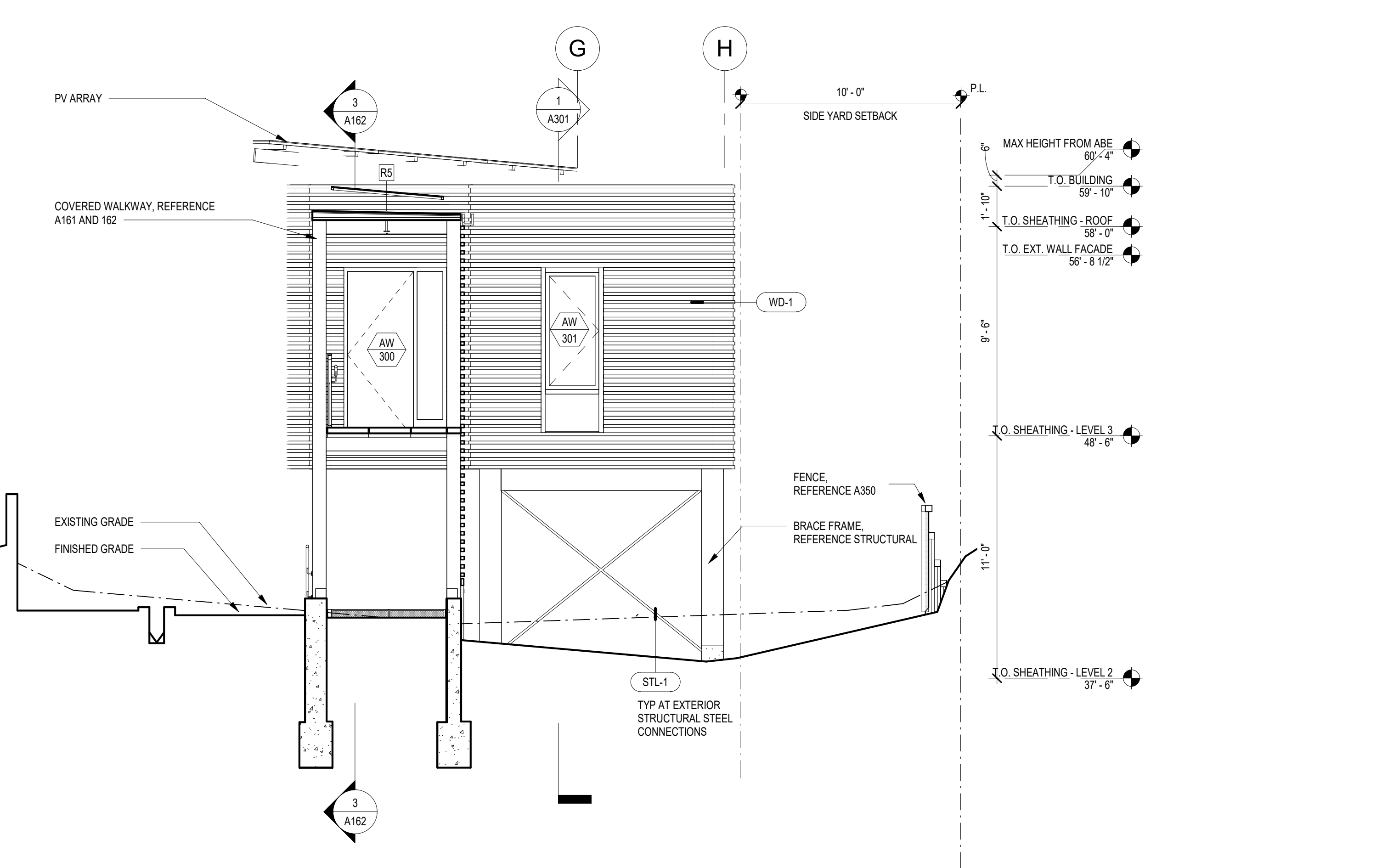
No.	Description	Date

Drawn: AN  
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 MJH Proj No.: A20.0085.00  
 Issue Date: FEBRUARY 24, 2023

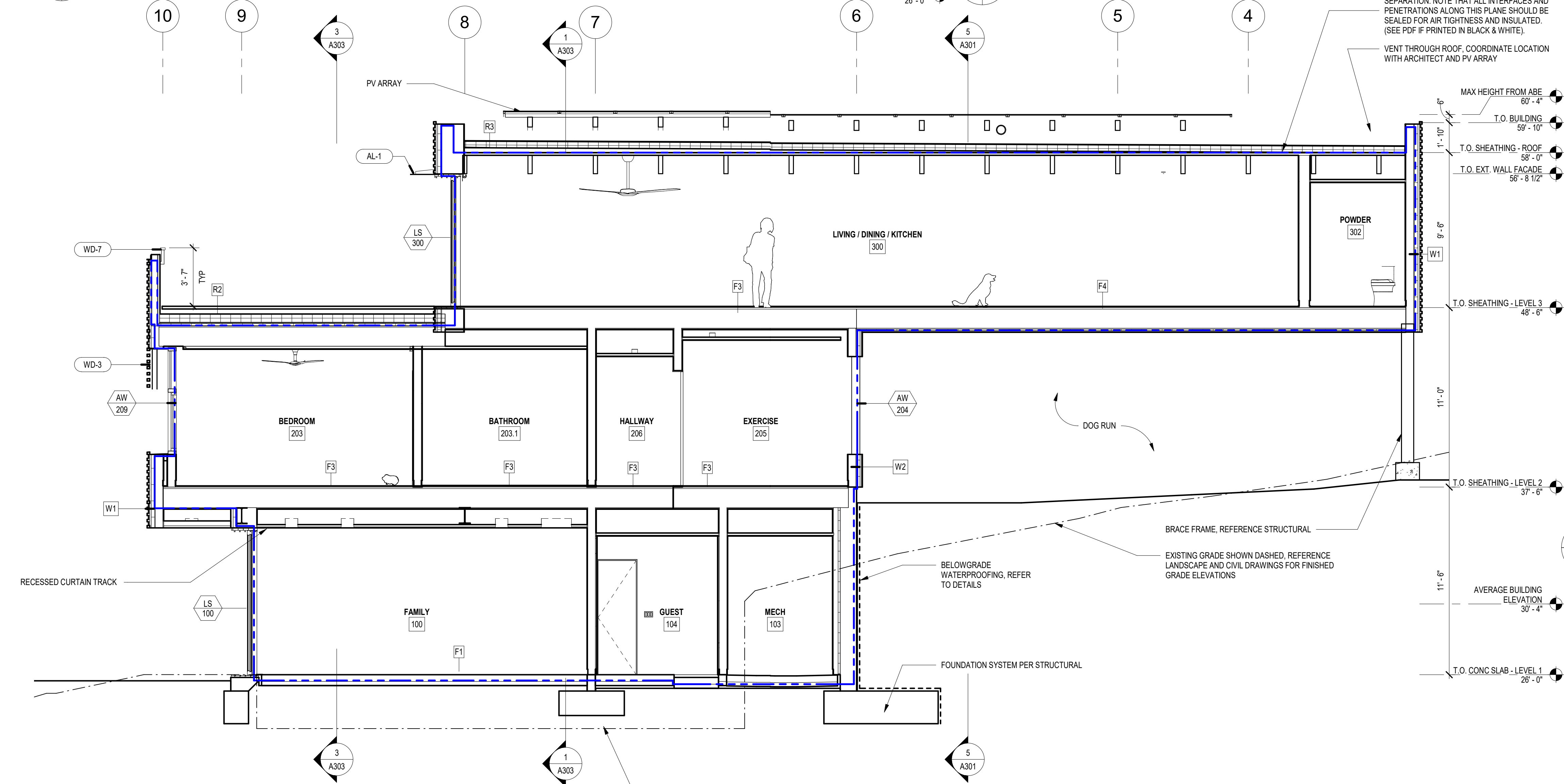
**BUILDING ELEVATIONS / SECTIONS A301**



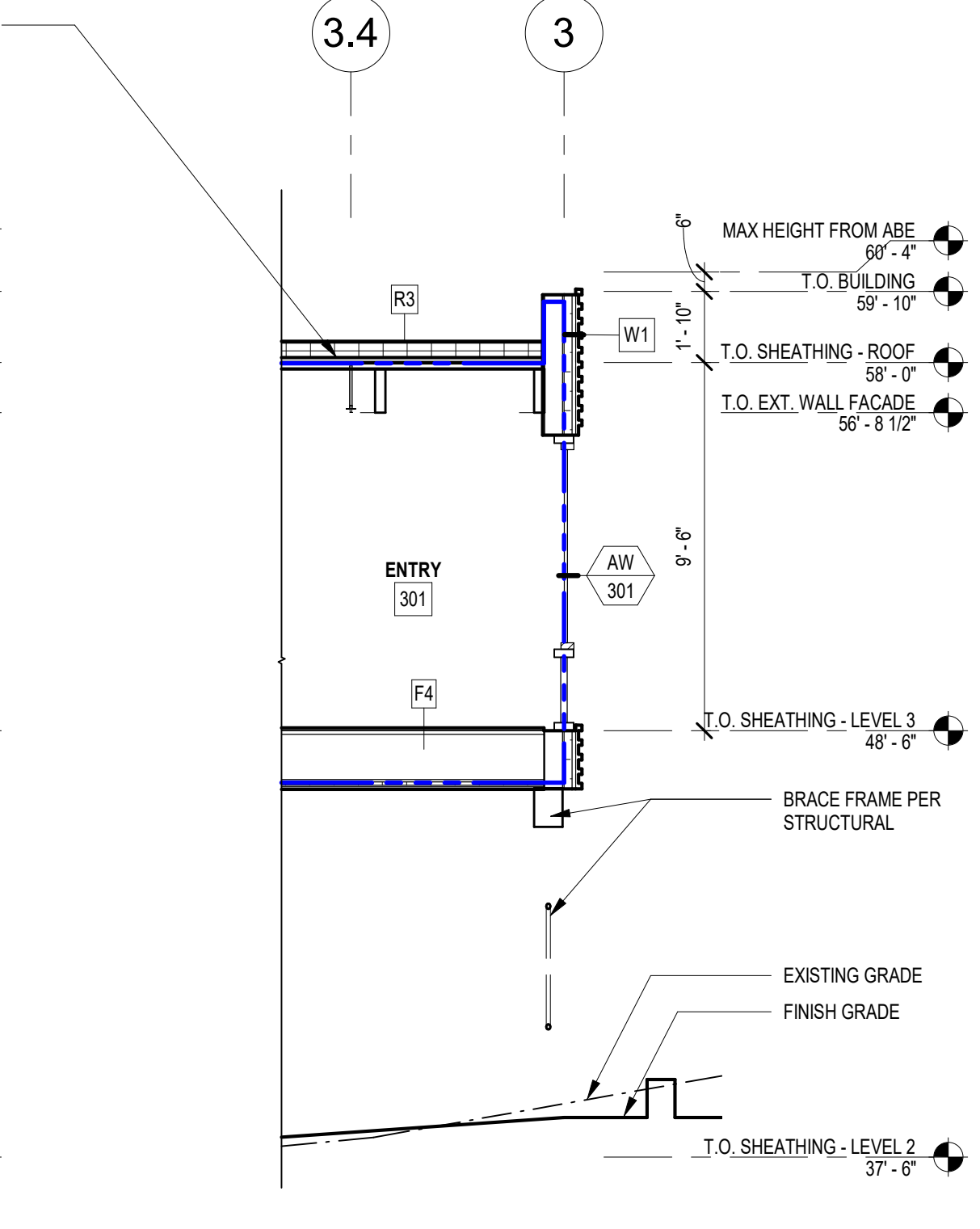
**5 NS SECTION - THROUGH LIVING**  
 1/4" = 1'-0"



**4 WEST ELEVATION @ ENTRY**  
 1/4" = 1'-0"



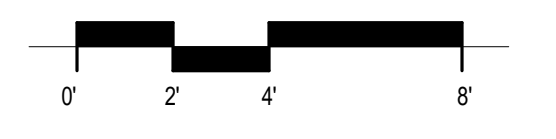
**3 EW SECTION - THROUGH L3 KITCHEN**  
 1/4" = 1'-0"



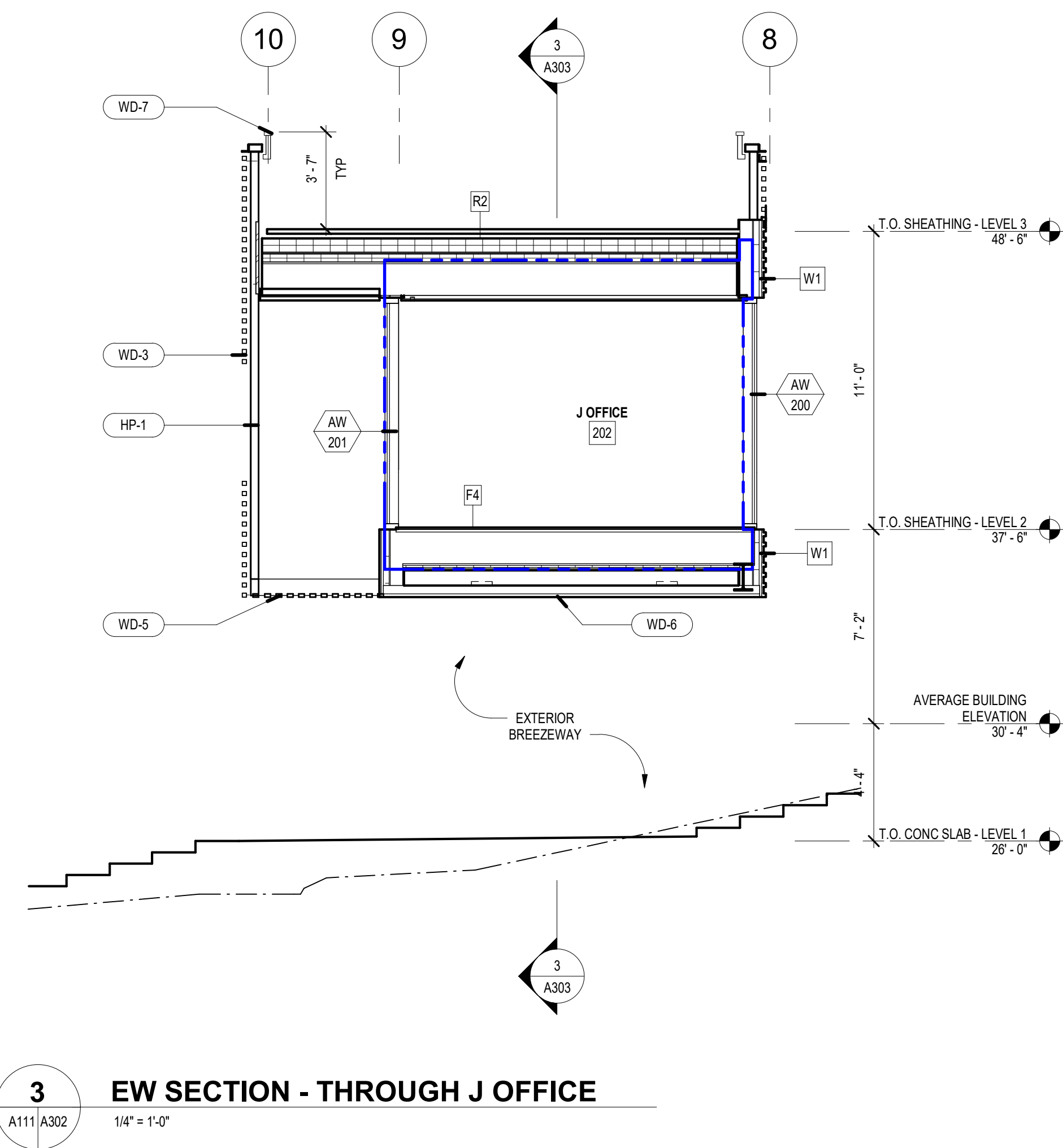
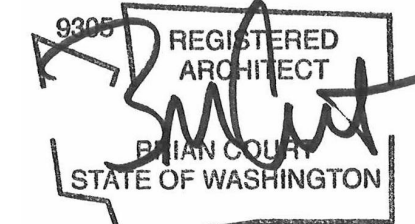
**1 EW PARTIAL SECTION - GL 3**  
 1/4" = 1'-0"

**FINISH LEGEND**  
 REPRESENTS FINISHES ON THIS SHEET ONLY, SEE A030 FOR MASTER FINISH LEGEND

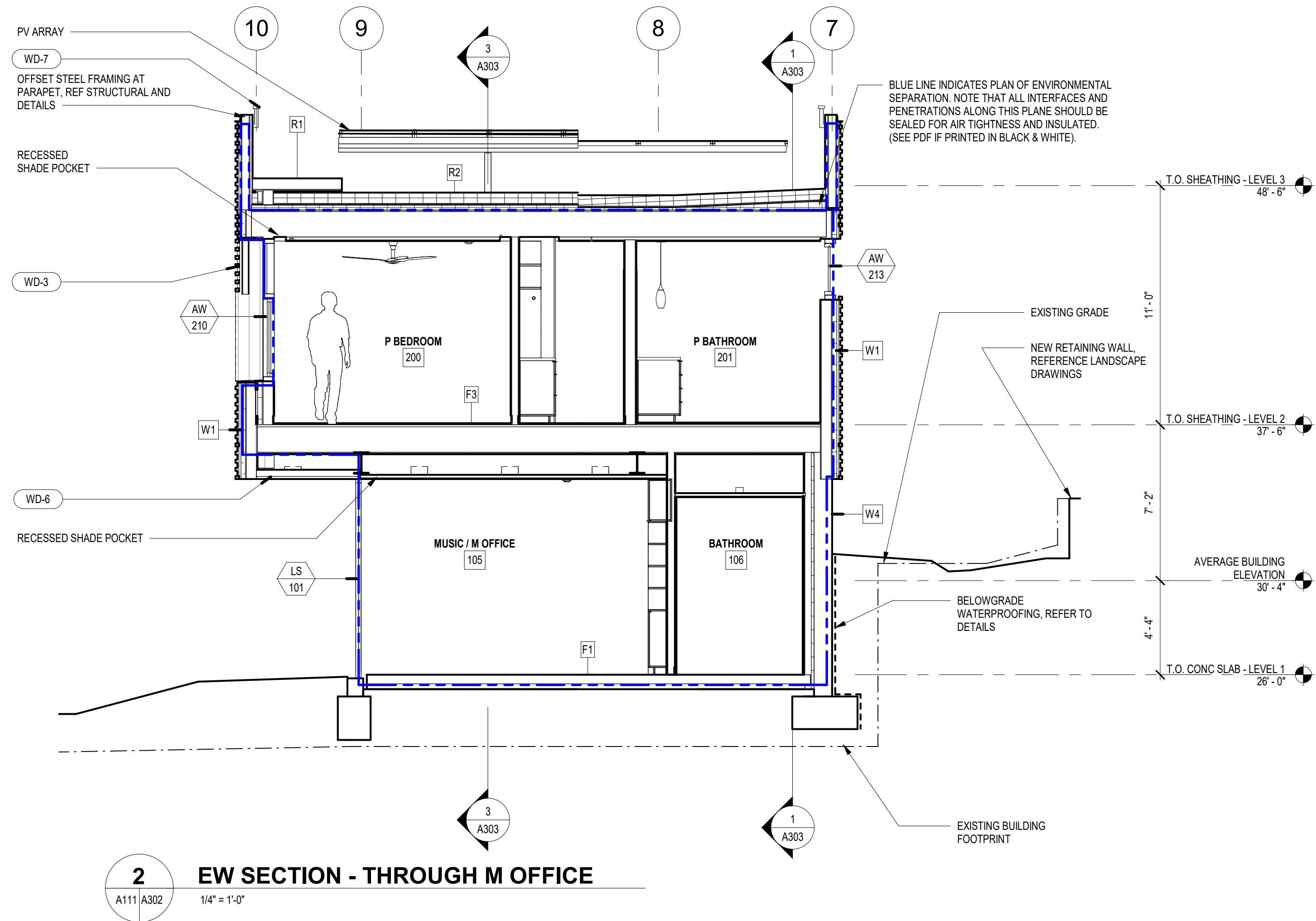
AL-1	05 50 00 - POWDERCOATED ALUMINUM
STL-1	05 00 00 - GALVANIZED STEEL
WD-1	07 46 23 - HORIZONTAL RIBBED KEBONY SIDING, REF DETAILS AND A030
WD-2	07 46 23 - VERTICAL T&G KEBONY SIDING, REF DETAILS AND A030
WD-3	07 36 23 - HORIZONTAL WOOD KEBONY SLATS OVER STEEL SUPPORTS, STEEL SUPPORTS TO BE PAINTED WITH HIGH PERFORMANCE PAINT, REF DETAILS AND A030
WD-7	06 40 00 - KEBONY HANDRAIL WITH HP-1 STEEL SUPPORTS



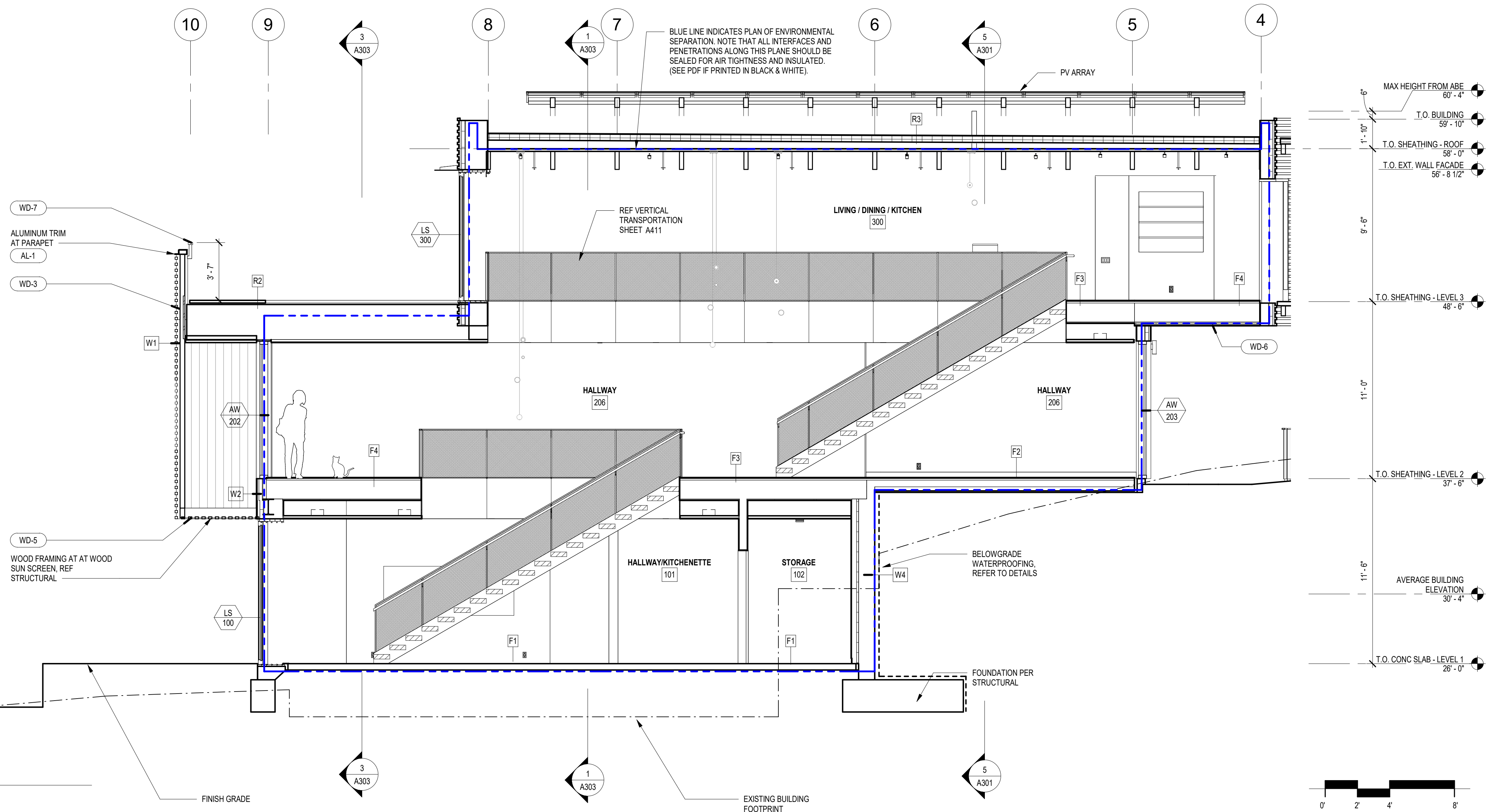
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**3 EW SECTION - THROUGH J OFFICE**  
 A111/A302 1/4" = 1'-0"



**2 EW SECTION - THROUGH M OFFICE**  
 A111/A302 1/4" = 1'-0"



**1 EW SECTION - THROUGH STAIRS EAST**  
 A111/A302 1/4" = 1'-0"

**FINISH LEGEND**  
 REPRESENTS FINISHES ON THIS SHEET ONLY, SEE A030 FOR MASTER FINISH LEGEND

AL-1	05 50 00 - POWDERCOATED ALUMINUM
HP-1	09 97 13 - HIGH PERFORMANCE COATING
WD-3	07 36 23 - HORIZONTAL WOOD KEBONY SLATS OVER STEEL SUPPORTS. STEEL SUPPORTS TO BE PAINTED WITH HIGH PERFORMANCE PAINT, REF DETAILS AND A030
WD-5	07 46 23 - OPEN SLAT WOOD SOFFIT
WD-6	07 46 23 - EXTERIOR WOOD SOFFIT
WD-7	06 40 00 - KEBONY HANDRAIL WITH HP-1 STEEL SUPPORTS

**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

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FEBRUARY 24, 2023

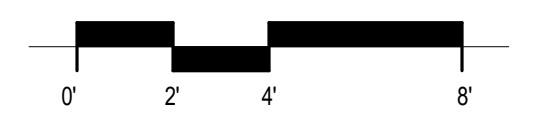
REVISIONS

No.	Description	Date

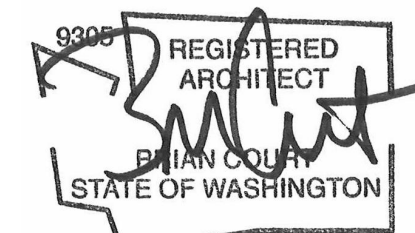
Drawn: AN  
 Checked: AN  
 MJH Proj No.: A20.0085.00  
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**BUILDING SECTIONS A302**

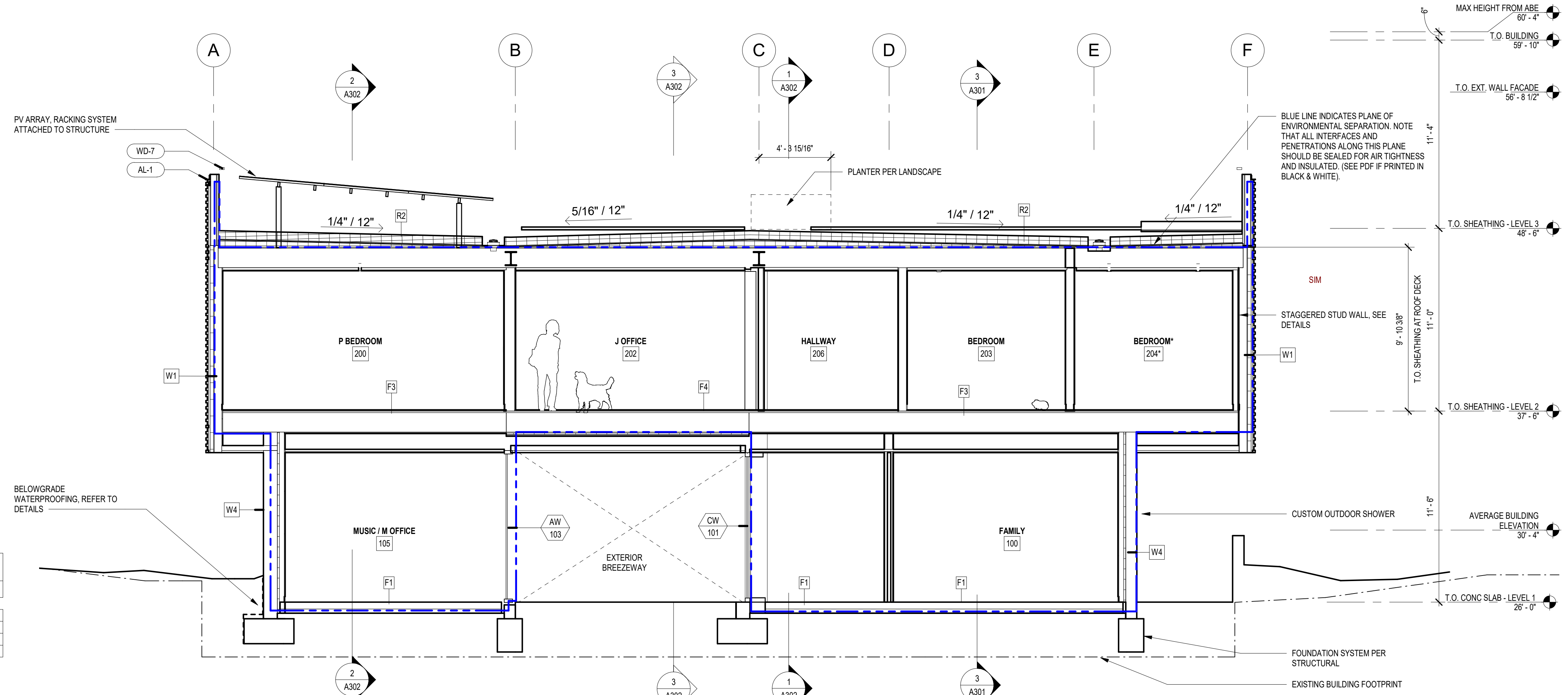


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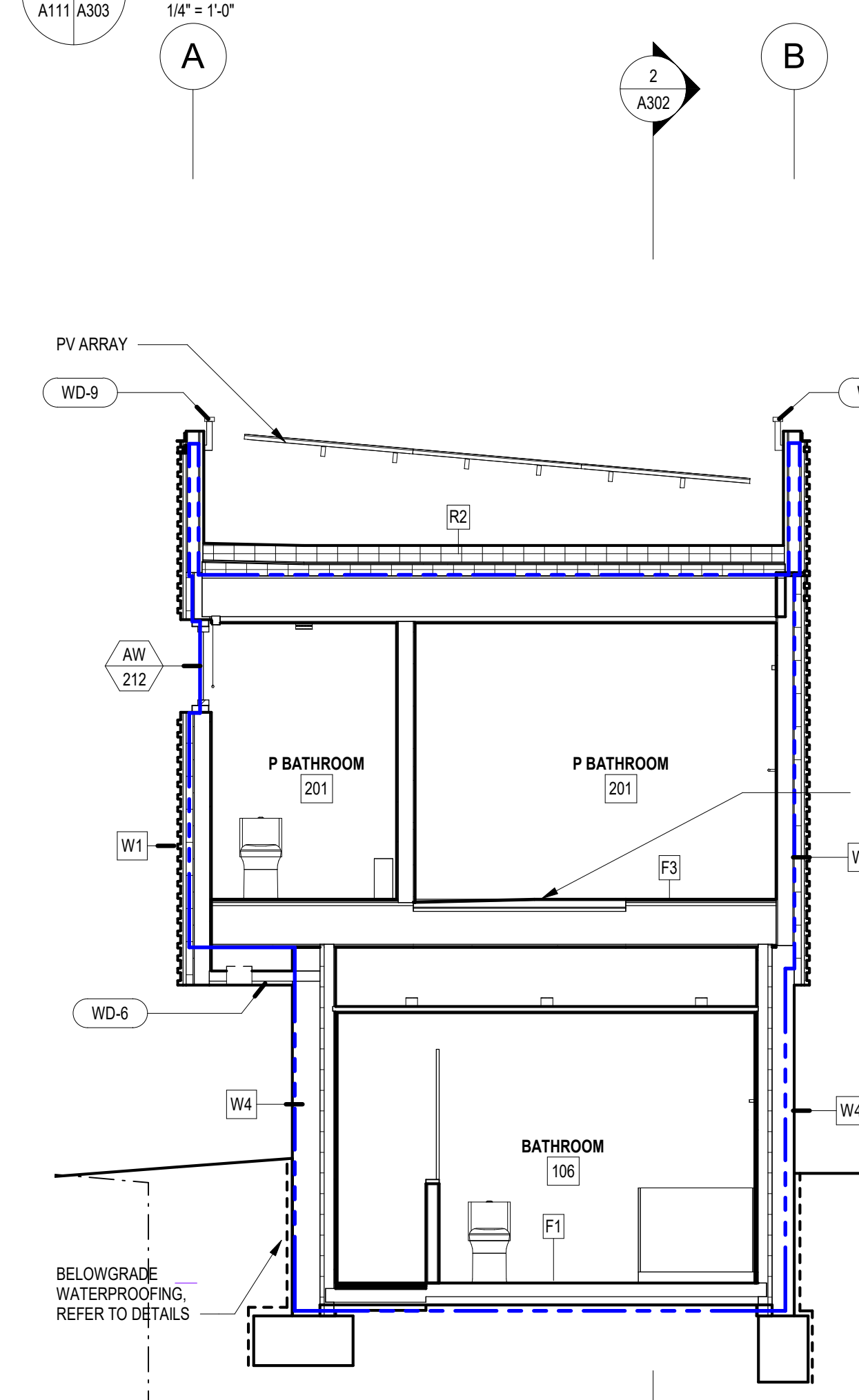


**FINISH LEGEND**  
 REPRESENTS FINISHES ON THIS SHEET ONLY, SEE A030 FOR MASTER FINISH LEGEND

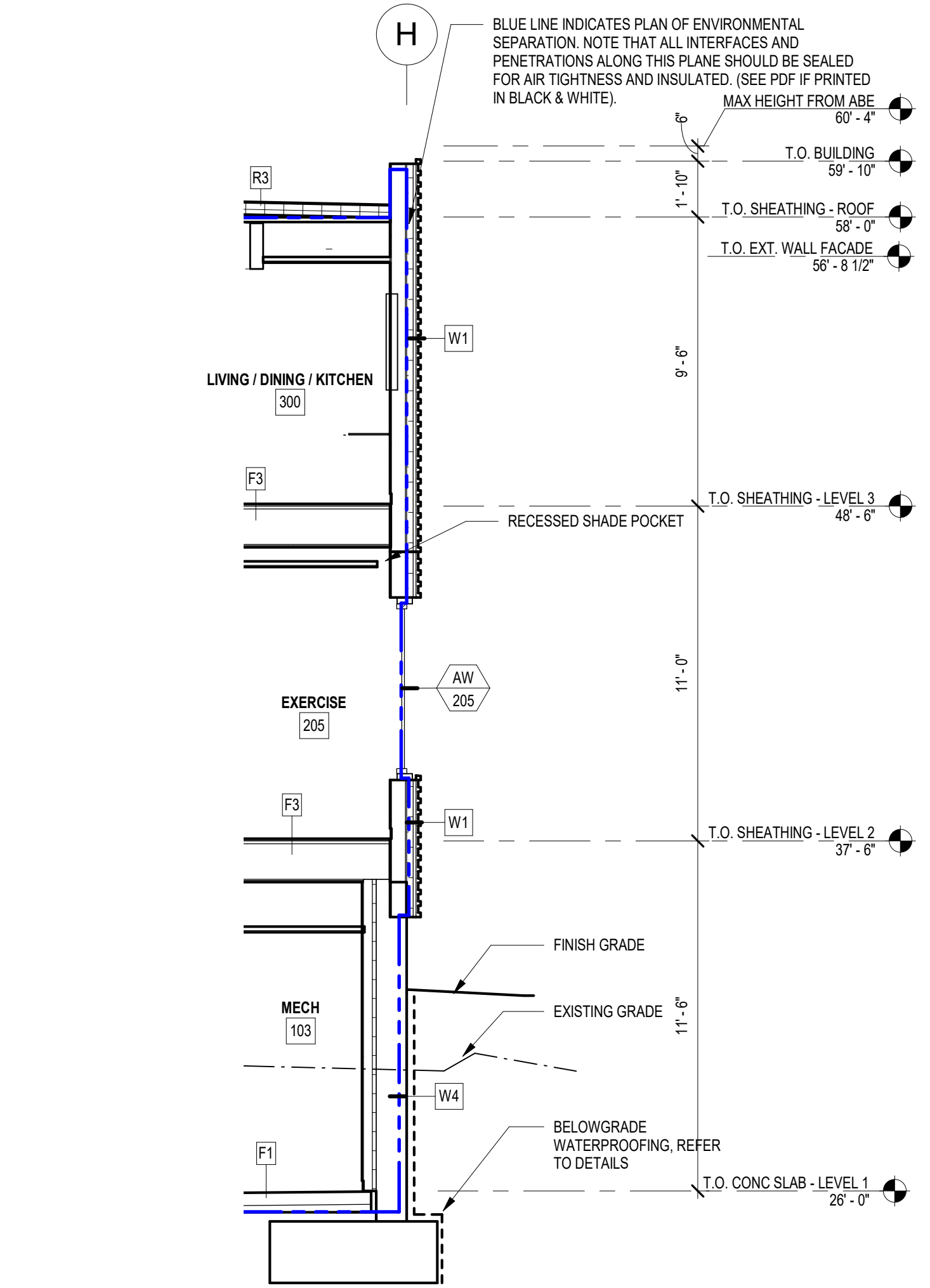
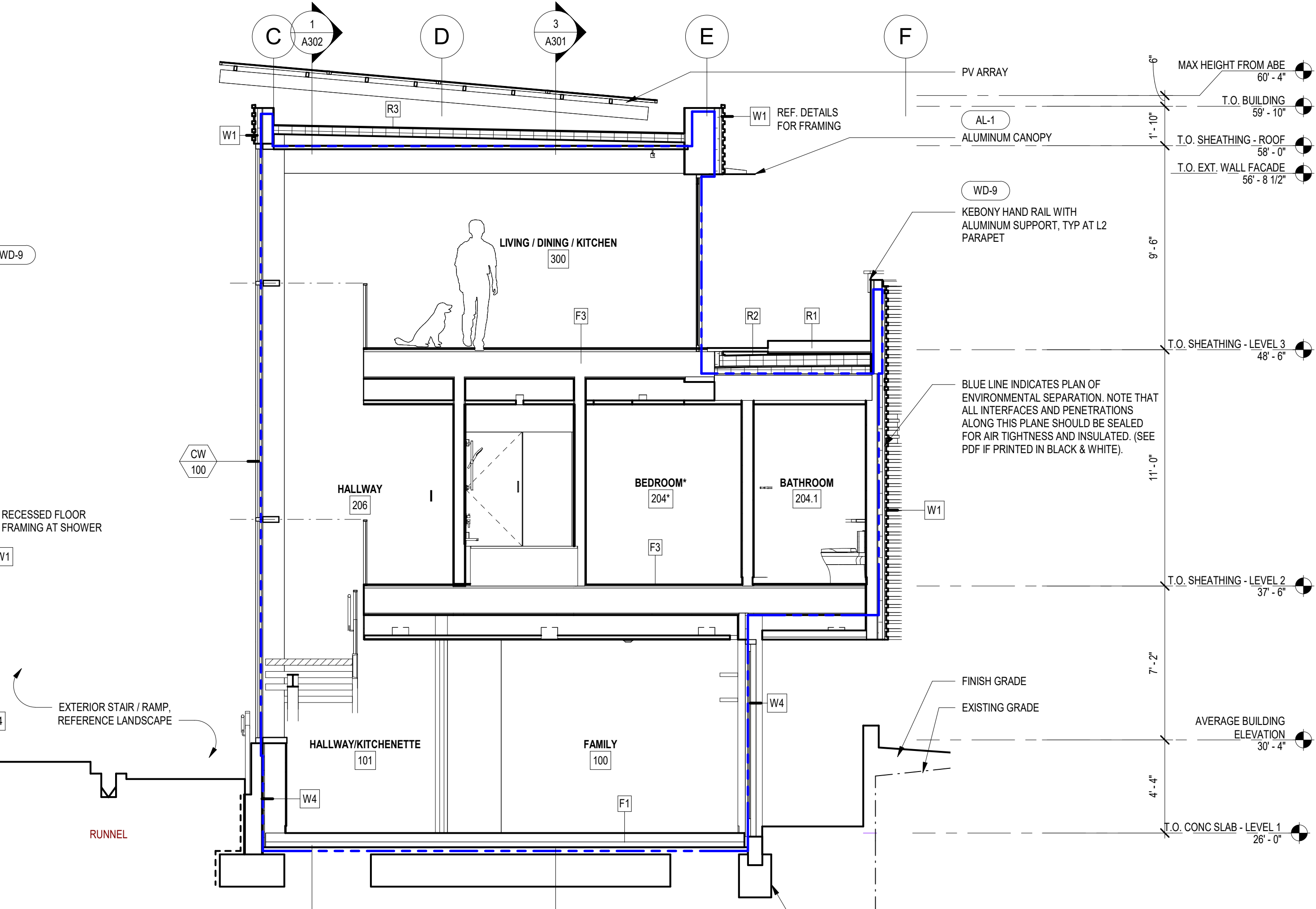
AL-1	05 50 00 - POWDERCOATED ALUMINUM
WD-6	07 46 23 - EXTERIOR WOOD SOFFIT
WD-7	06 40 00 - KEBONY HANDRAIL WITH HP-1 STEEL SUPPORTS
WD-9	06 40 00 - INTERIOR STAIR WOOD HANDRAIL



**3 NS SECTION - THROUGH J OFFICE**  
 1/4" = 1'-0"



**1 NS SECTION - THROUGH BREEZEWAY**  
 1/4" = 1'-0"



**2 NS SECTION @ GL H**  
 1/4" = 1'-0"

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6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

SUBMITTAL

**100% CONSTRUCTION DOCUMENTS**

FEBRUARY 24, 2023

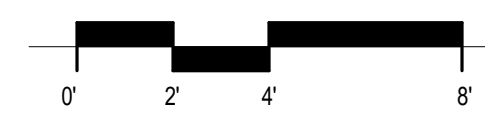
REVISIONS

No.	Description	Date

Drawn: AN  
 Checked: AN  
 MJH Proj No.: A20.0085.00  
 Issue Date: FEBRUARY 24, 2023

SHEET

**BUILDING SECTIONS A303**

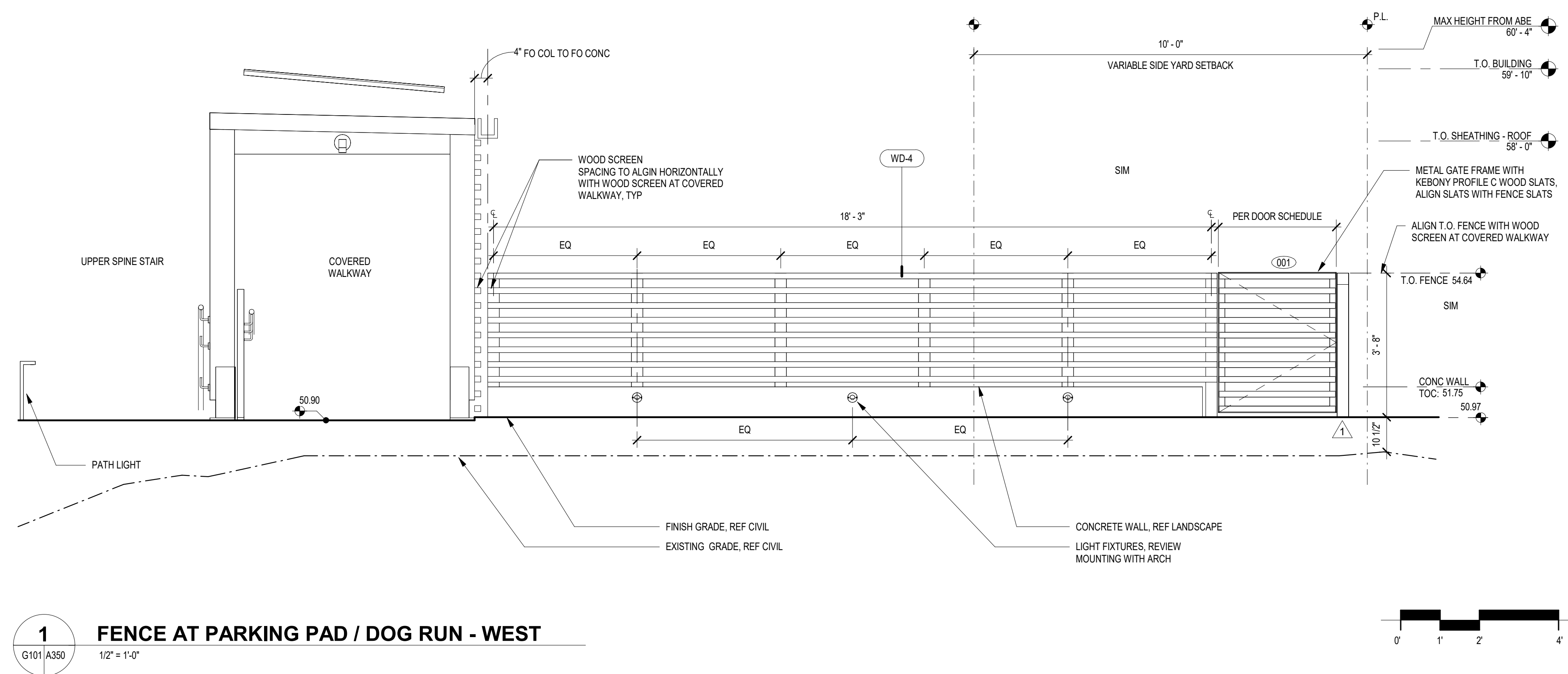
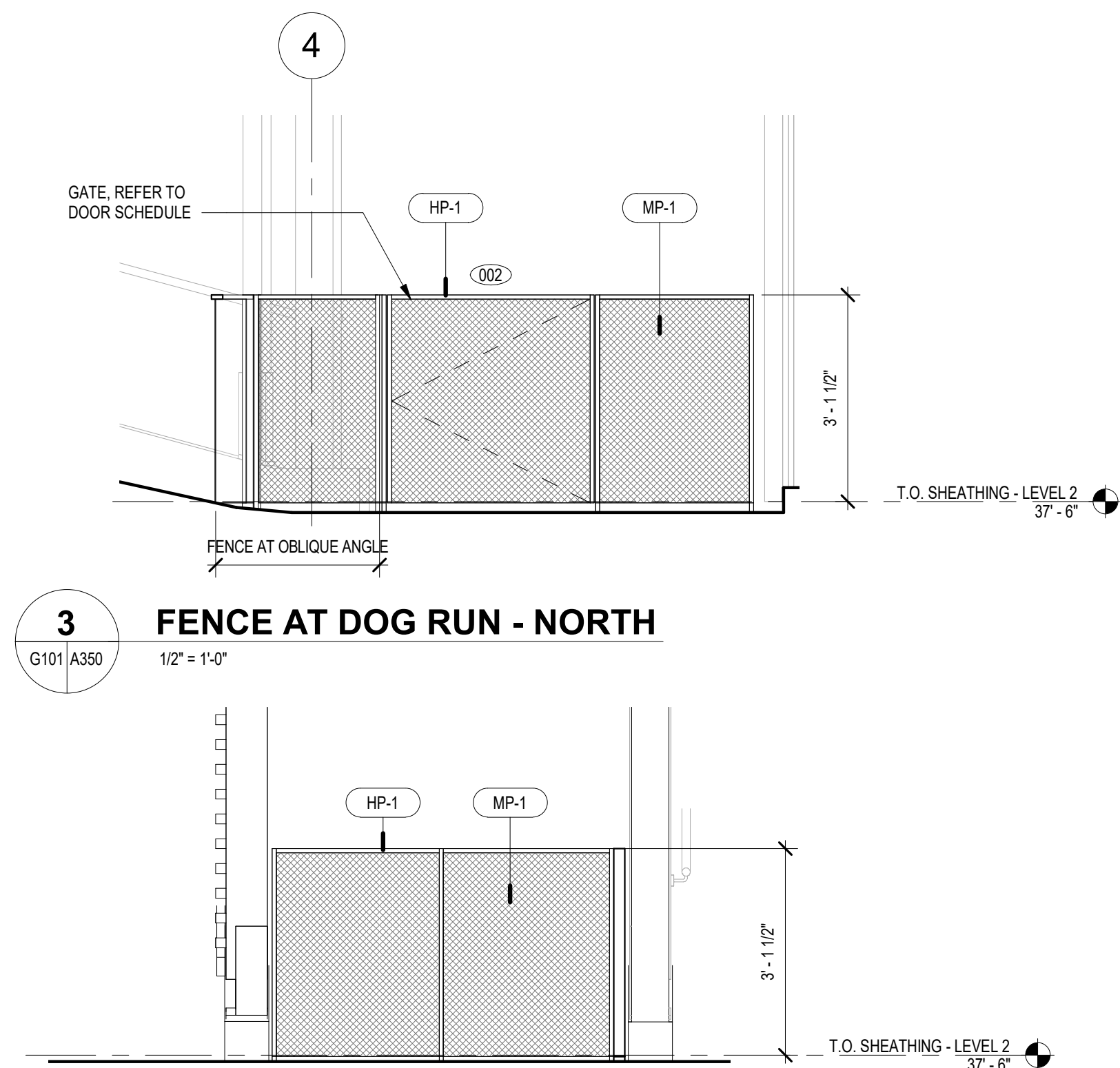
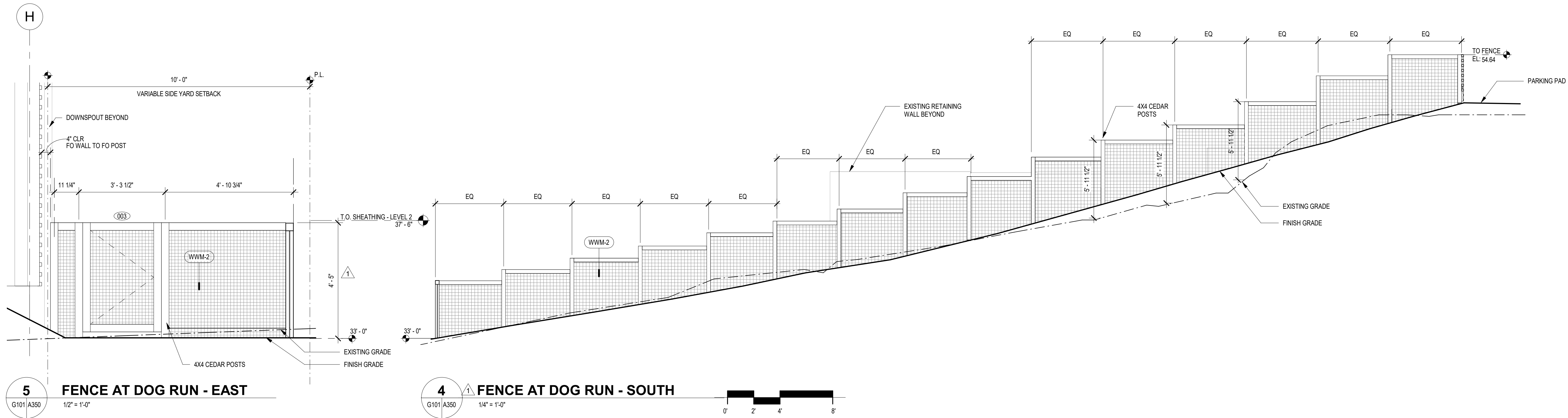


**FINISH LEGEND**

REPRESENTS FINISHES ON THIS SHEET ONLY, SEE A030 FOR MASTER FINISH LEGEND

HP-1	09 97 13 - HIGH PERFORMANCE COATING
MP-1	05 51 41 - PERFORATED METAL PANEL
WD-4	07 36 23 - HORIZONTAL WOOD KEBONY SLATS OVER WOOD SUPPORTS, REF DETAILS AND A030
WWM-2	05 50 00 - WELDED WIRE MESH, GALVANIZED

STAMP



**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

SUBMITTAL

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1	Building Permit Resubmittal	10/27/22

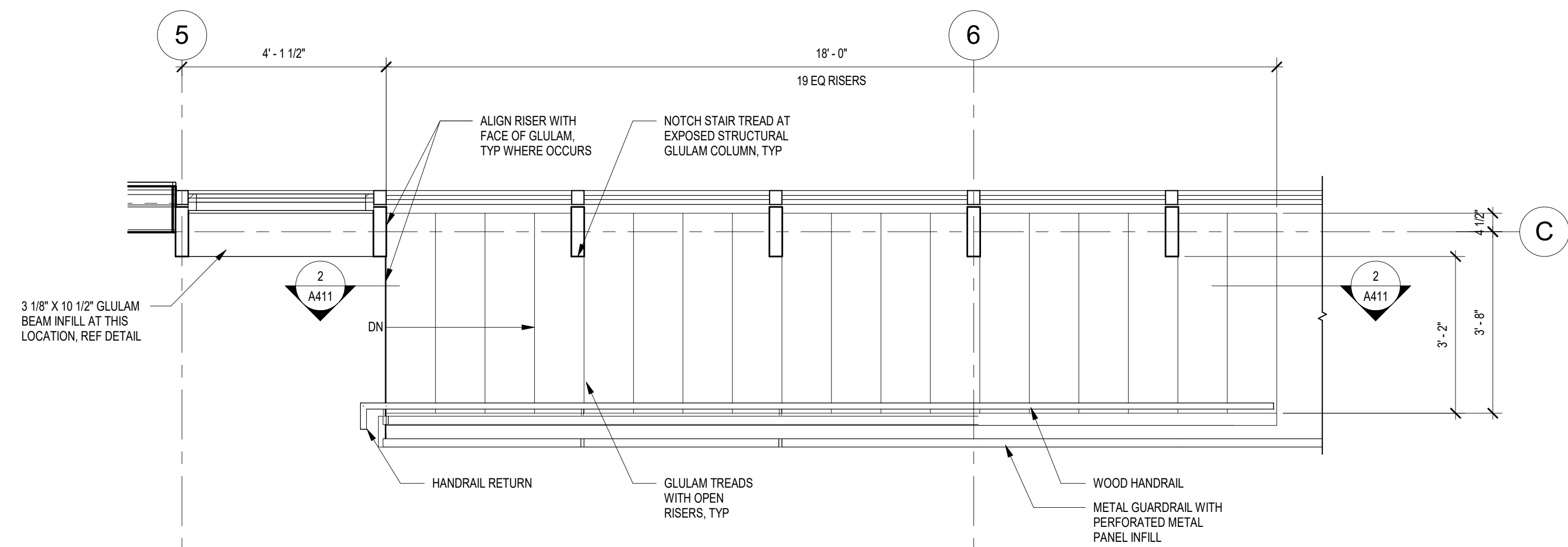
Drawn: KR  
 Checked: AN  
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Issue Date: FEBRUARY 24, 2023

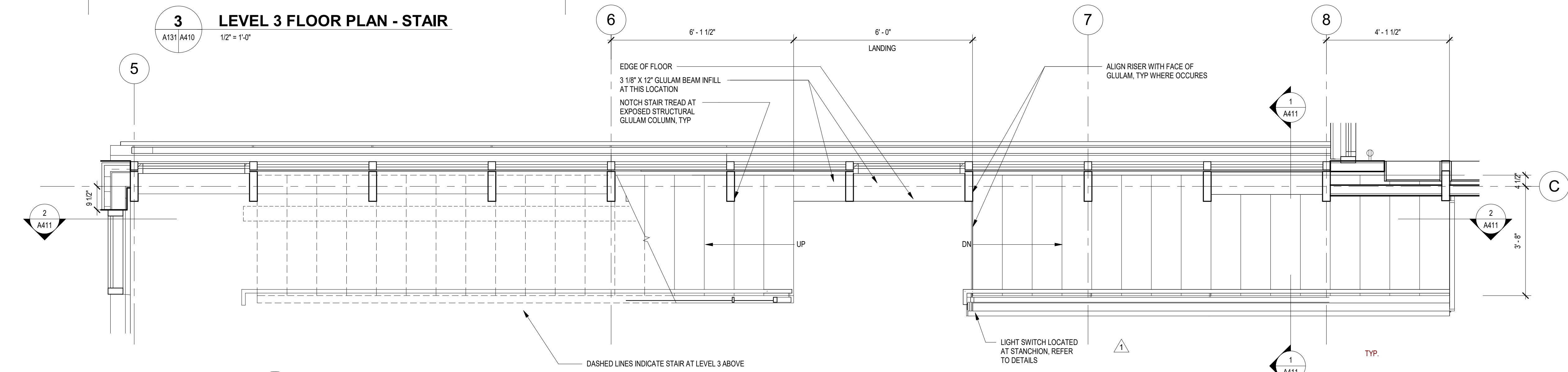
SHEET

**FENCE ELEVATIONS A350**

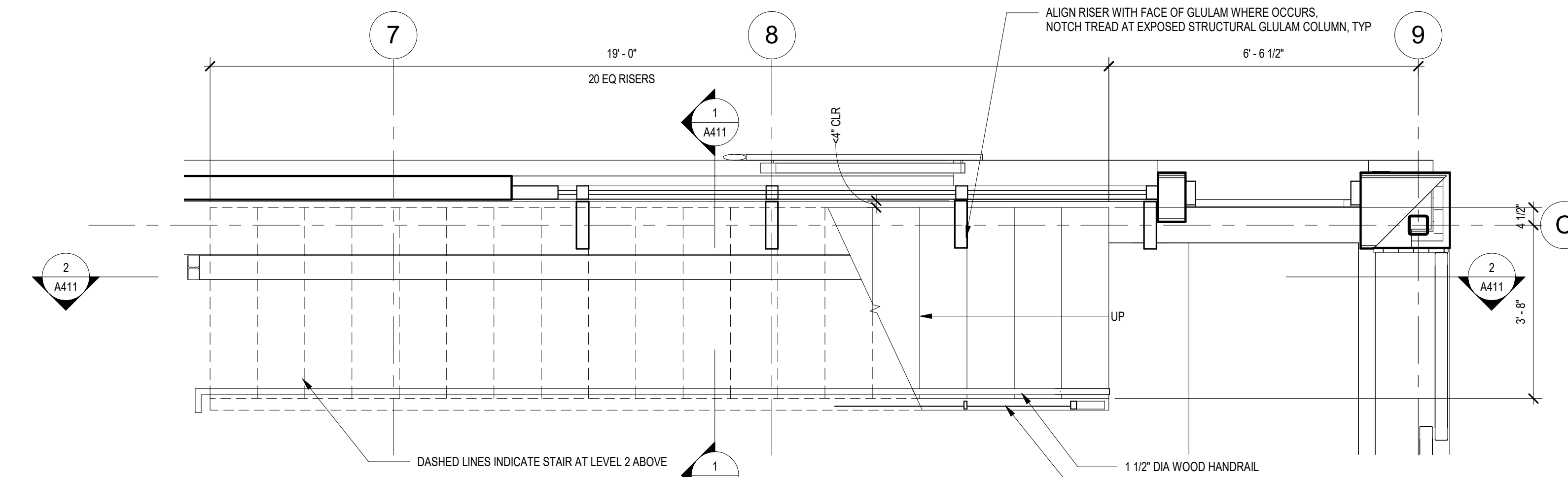
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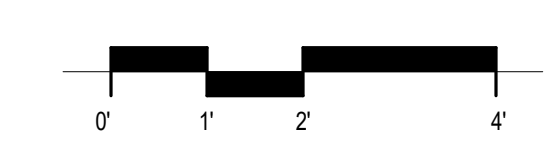
**3 LEVEL 3 FLOOR PLAN - STAIR**  
 1/2" = 1'-0"



**2 LEVEL 2 FLOOR PLAN - STAIR**  
 1/2" = 1'-0"



**1 LEVEL 1 FLOOR PLAN - STAIR**  
 1/2" = 1'-0"



**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

SUBMITTAL

**100% CONSTRUCTION DOCUMENTS**

FEBRUARY 24, 2023

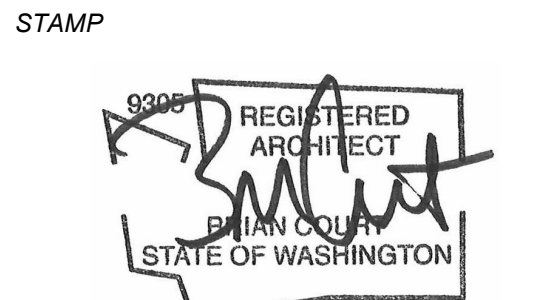
REVISIONS

No.	Description	Date
1	Building Permit Resubmittal	10/27/22

Drawn: KR  
 Checked: AN  
 MJH Proj No.: A20.0085.00  
 Issue Date: FEBRUARY 24, 2023

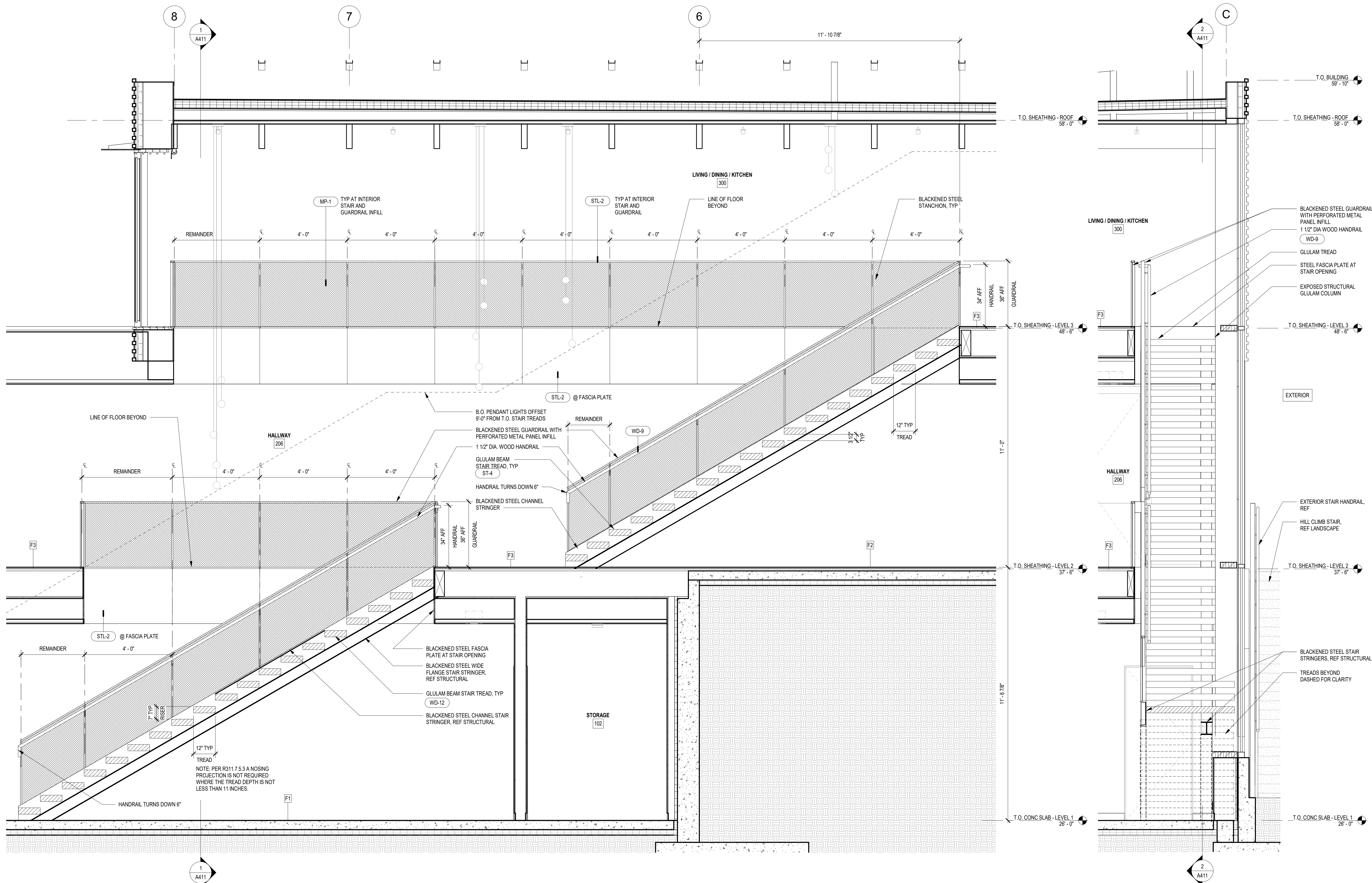
SHEET

**VERTICAL TRANSPORTATION A410**



**FINISH LEGEND**  
 REPRESENTS FINISHES ON THIS SHEET ONLY, SEE A030 FOR MASTER FINISH LEGEND

MP-1	05 51 41 - PERFORATED METAL PANEL
ST-4	09 93 13 - INTERIOR WOOD FINISH - WALKING SURFACE
STL-2	05 05 14 - BLACKENED STEEL
WD-9	06 40 00 - INTERIOR STAIR WOOD HANDRAIL
WD-12	06 15 00 - INTERIOR STAIR TREAD



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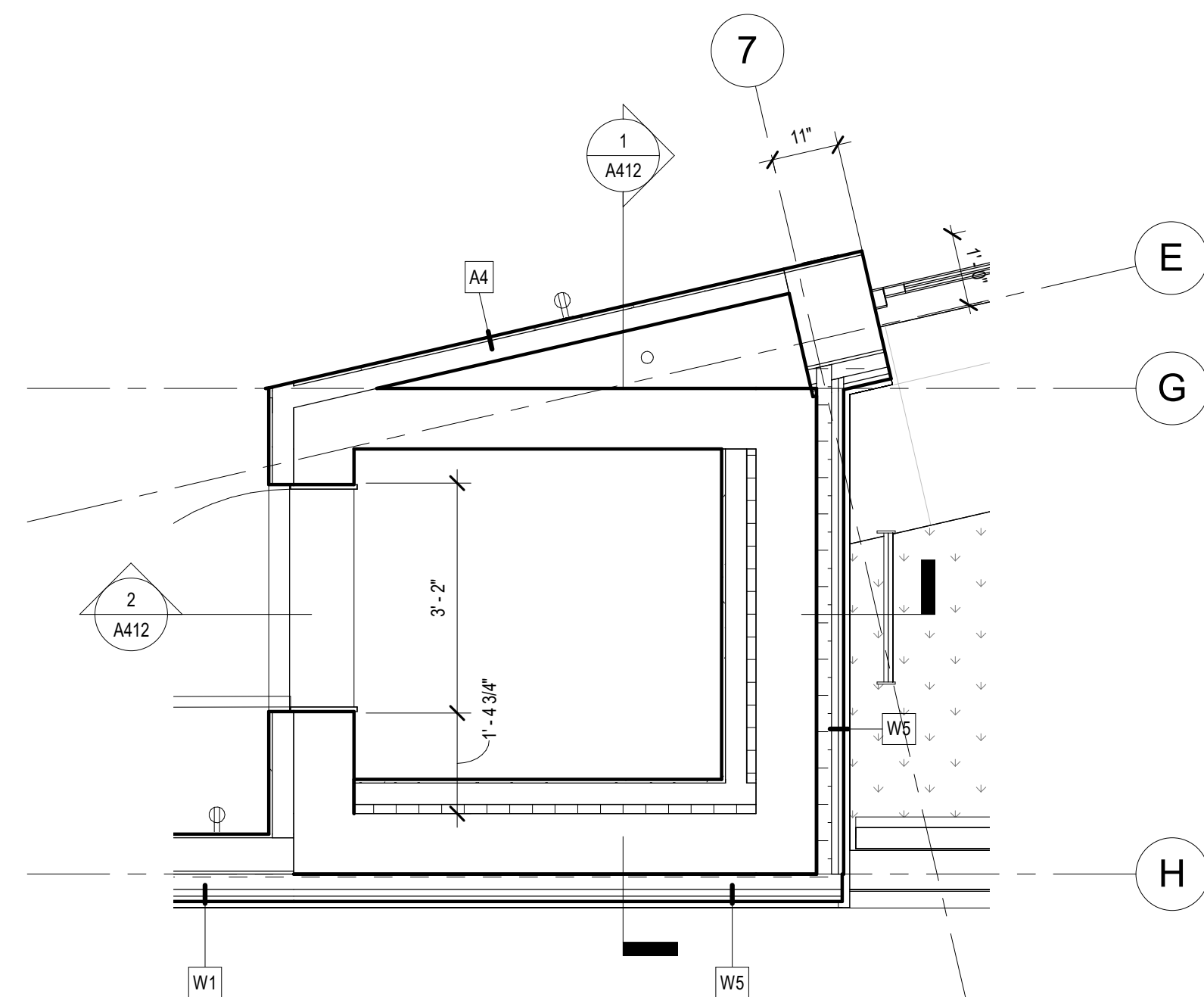
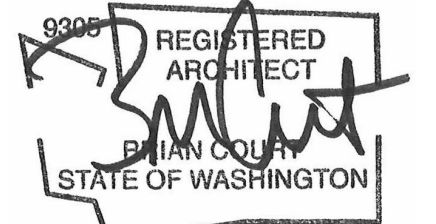
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SHEET

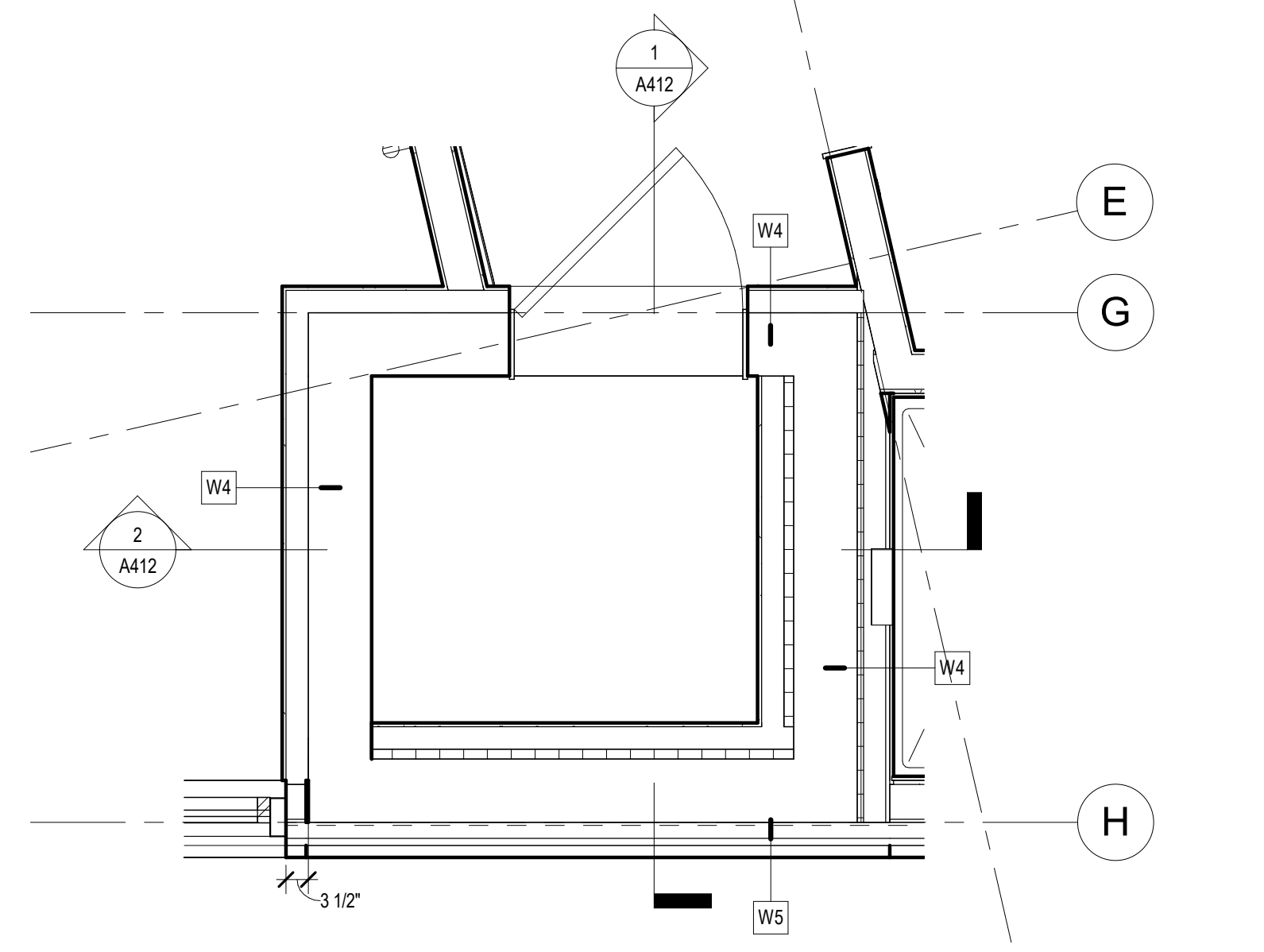
**VERTICAL TRANSPORTATION**  
**A411**



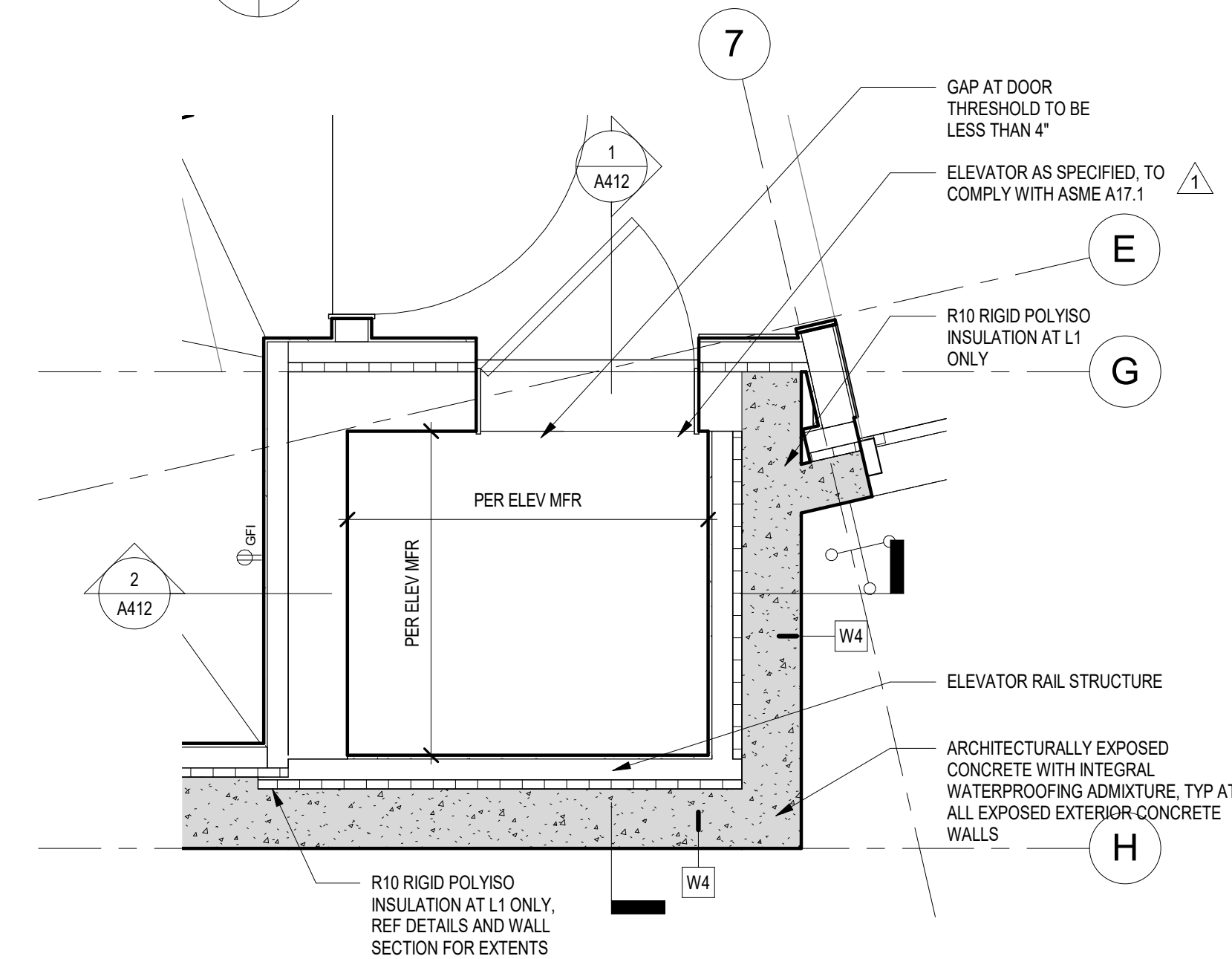
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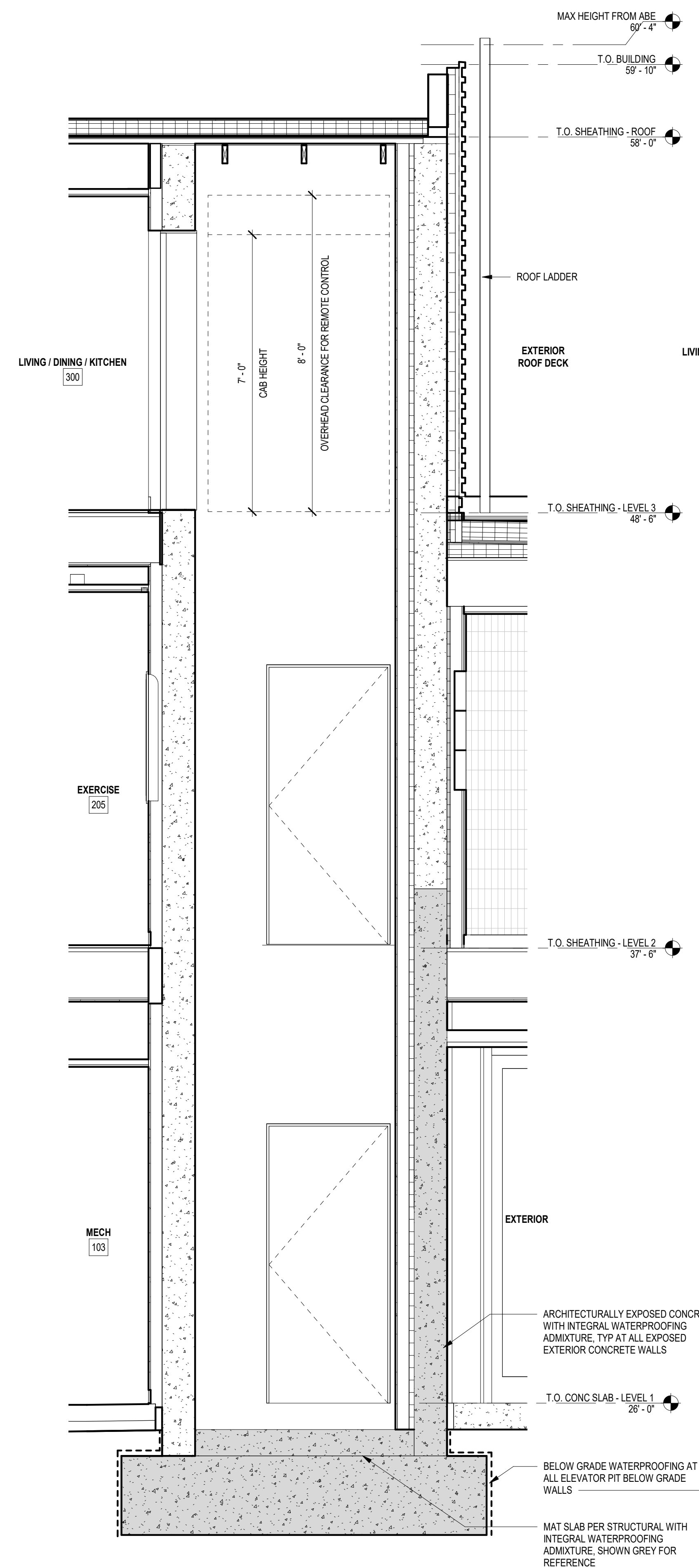
**5 ELEVATOR ENL PLAN - LEVEL 3**  
 A131/A412 1/2" = 1'-0"



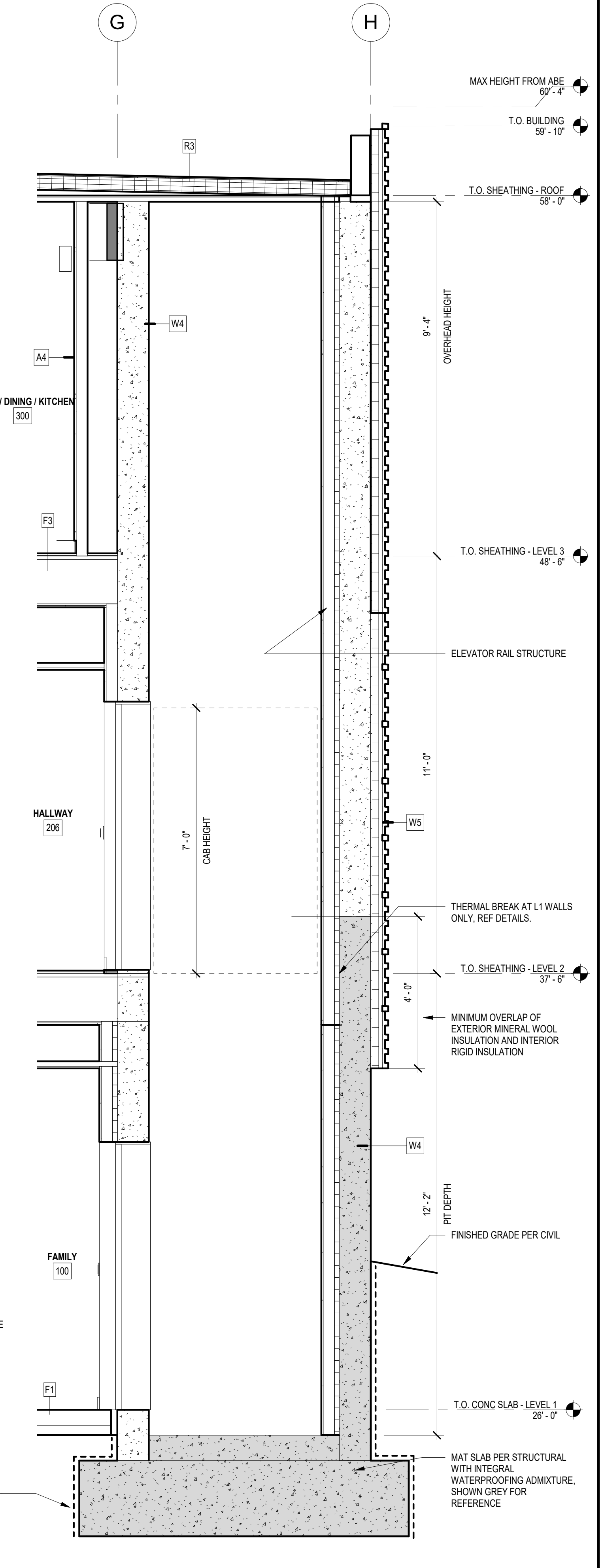
**4 ELEVATOR ENL PLAN - LEVEL 2**  
 A121/A412 1/2" = 1'-0"



**3 ELEVATOR ENL PLAN - LEVEL 1**  
 A111/A412 1/2" = 1'-0"



**2 EW SECTION - ELEVATOR**  
 A412/A412 1/2" = 1'-0"



**1 NS SECTION - ELEVATOR**  
 A412/A412 1/2" = 1'-0"



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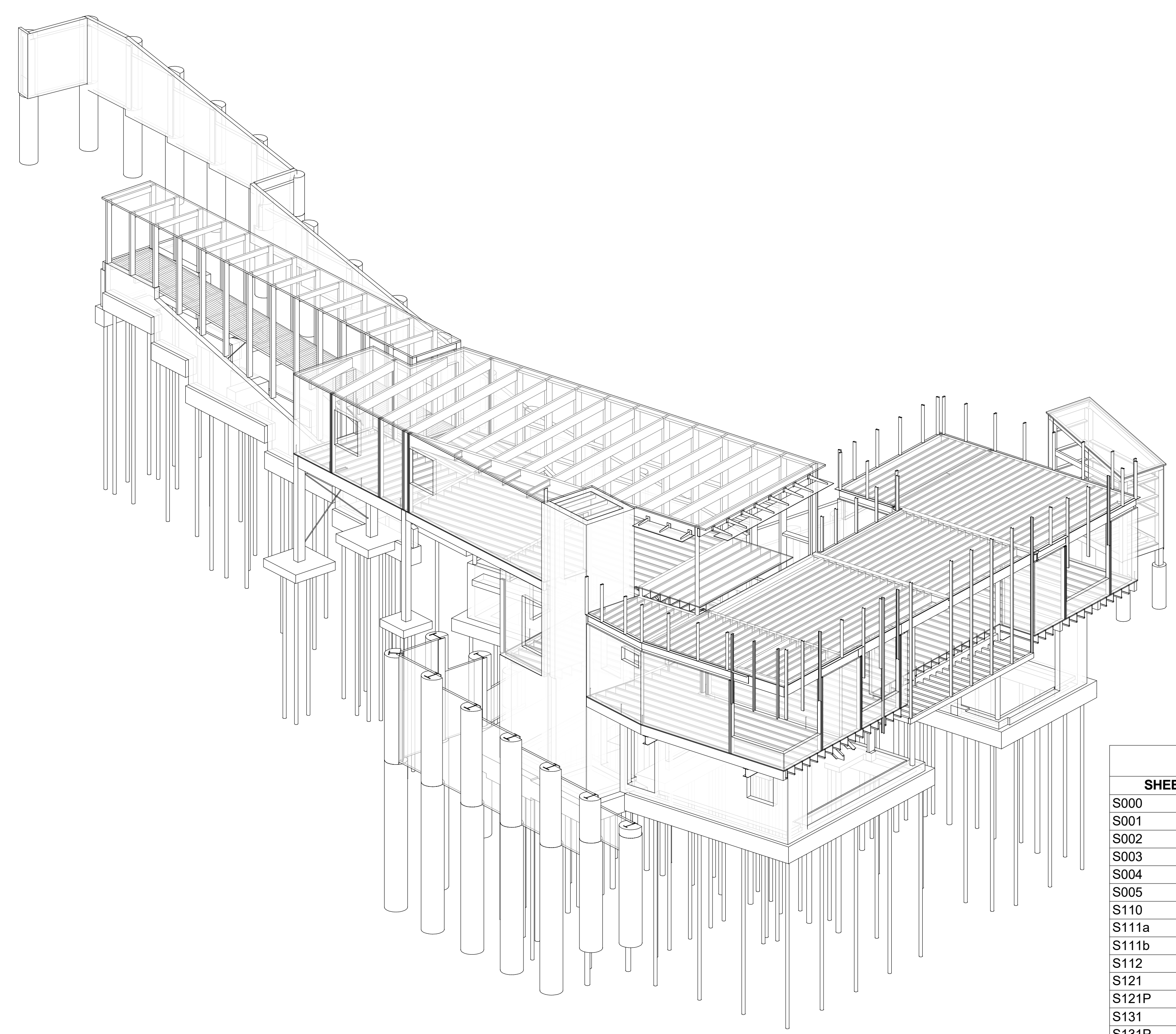
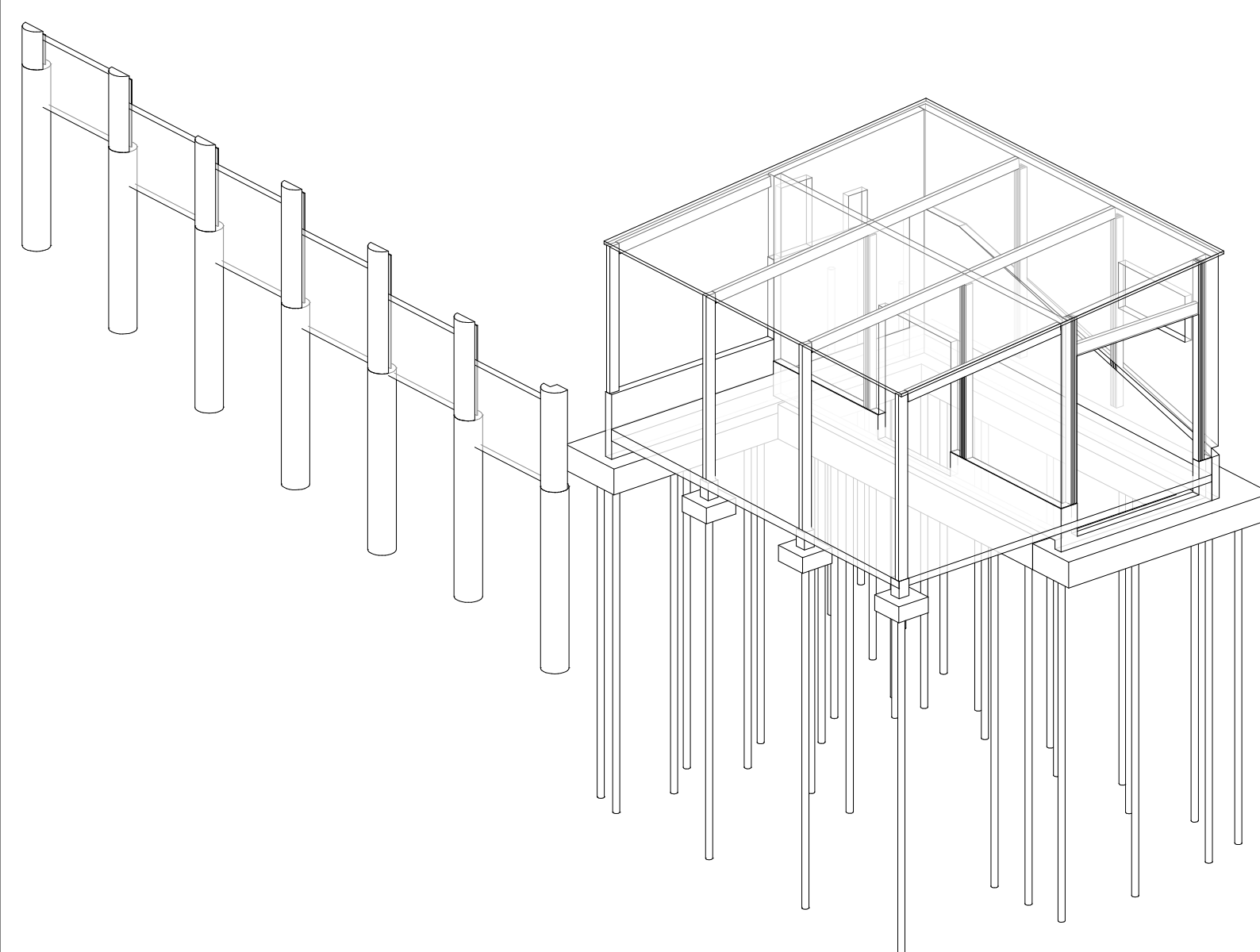
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1	Building Permit Resubmittal	10/27/22

Drawn: AN  
 Checked: AN  
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 Issue Date: FEBRUARY 24, 2023

SHEET

**VERTICAL TRANSPORTATION A412**



C:\\_Revit Models\21201 Mercer Island Residence R2022 (Central)\_DEHollar.rvt

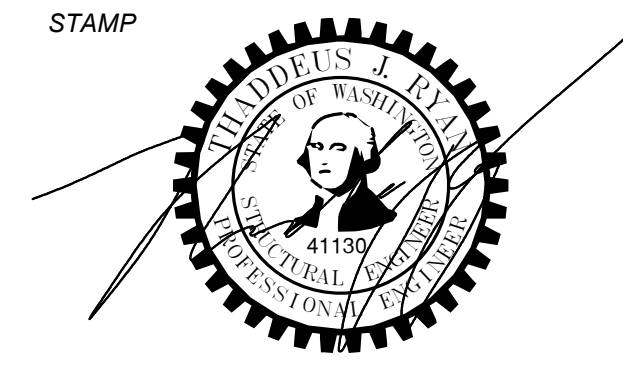
STRUCTURAL DRAWING INDEX	
SHEET NUMBER	SHEET DESCRIPTION
S000	COVER SHEET
S001	GENERAL NOTES
S002	GENERAL NOTES
S003	GENERAL NOTES
S004	GENERAL NOTES
S005	GENERAL NOTES
S110	PLAN NOTES
S111a	PILE PLAN
S111b	PILE PLAN
S112	LEVEL 1 - FOUNDATION PLAN
S121	LEVEL 2 - FLOOR FRAMING PLAN
S121P	LEVEL 2 - FLOOR FRAMING PENETRATION PLAN
S131	LEVEL 3 - FLOOR FRAMING PLAN
S131P	LEVEL 3 - FLOOR FRAMING PENETRATION PLAN
S141	ROOF - FRAMING PLAN
S151	GARAGE AND SHED PLANS
S161	COVERED WALKWAY PLANS
S301	SLAB-ON-GRADE DETAILS
S302	FOUNDATION DETAILS
S303	FOUNDATION DETAILS
S304	FOUNDATION DETAILS
S305	FOUNDATION DETAILS
S400	SOLDIER PILE WALL PLAN
S401	SHORING WALL ELEVATIONS
S402	SHORING WALL ELEVATIONS
S403	SHORING DETAILS
S410	TEMPORARY SHORING WALL PLANS & ELEVATIONS
S411	TEMPORARY SHORING WALL DETAILS
S501	STEEL FRAMING DETAILS
S701	WOOD FRAMING DETAILS
S702	WOOD FRAMING DETAILS
S703	WOOD FRAMING DETAILS
S704	WOOD FRAMING DETAILS
S705	WOOD FRAMING DETAILS
S706	WOOD FRAMING DETAILS
S707	WOOD FRAMING DETAILS
S708	WOOD FRAMING DETAILS
S709	WOOD FRAMING DETAILS
S710	WOOD FRAMING DETAILS
Grand total: 39	



The Miller Hull Partnership, LLP  
 Architecture and Planning  
 Polson Building  
 71 Columbia, Sixth Floor  
 Seattle, WA 98104  
 Phone: 206.682.6837  
 Contact: Name



STAMP



## MERCER ISLAND HOUSE: CASCADE

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

SUBMITTAL

## 100% CONSTRUCTION DOCUMENTS

February 24, 2023

REVISIONS

No.	Description	Date

Drawn: DEH  
 Checked: TJR  
 MJH Proj No.: A20.0085.00

Issue Date: February 24, 2023

SHEET

# COVER SHEET S000

**GENERAL NOTES**

THESE GENERAL NOTES ARE TO BE USED AS A SUPPLEMENT TO THE SPECIFICATIONS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATIONS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK. THE GENERAL CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS AMONG ALL DRAWINGS PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. THE STRUCTURE HAS BEEN DESIGNED TO RESIST CODE SPECIFIED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THIS RESPONSIBILITY INCLUDES BUT IS NOT LIMITED TO JOB SITE SAFETY; ERECTION MEANS, METHODS, AND SEQUENCES; TEMPORARY SHORING, FORMWORK, BRACING; USE OF EQUIPMENT AND CONSTRUCTION PROCEDURES. PROVIDE ADEQUATE RESISTANCE TO LOADS ON THE STRUCTURES DURING CONSTRUCTION PER SEI/ASCE STANDARD NO. 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION."

CONSTRUCTION OBSERVATION BY THE STRUCTURAL ENGINEER IS FOR GENERAL CONFORMANCE WITH DESIGN ASPECTS ONLY AND IS NOT INTENDED IN ANY WAY TO REVIEW THE CONTRACTOR'S CONSTRUCTION PROCEDURES.

**STANDARDS**

ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION.

**CONTRACT DRAWINGS / DIMENSIONS**

ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. CONSULTANT DRAWINGS BY OTHER DISCIPLINES ARE SUPPLEMENTARY TO ARCHITECTURAL DRAWINGS. REPORT DIMENSIONAL OMISSIONS OR DISCREPANCIES BETWEEN ARCHITECTURAL DRAWINGS AND STRUCTURAL, MECHANICAL, ELECTRICAL OR CIVIL DRAWINGS TO ARCHITECT PRIOR TO PROCEEDING WITH WORK.

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS. PRIMARY STRUCTURAL ELEMENTS ARE DIMENSIONED ON STRUCTURAL PLANS AND DETAILS AND OVERALL LAYOUT OF STRUCTURAL PORTION OF WORK. SOME SECONDARY ELEMENTS ARE NOT DIMENSIONED, SUCH AS WALL CONFIGURATIONS, INCLUDING EXACT DOOR AND WINDOW LOCATIONS, ALCOVES, SLAB SLOPES AND DEPRESSIONS, CURBS, ETC. VERTICAL DIMENSIONAL CONTROL IS DEFINED BY ARCHITECTURAL WALL SECTIONS AND BUILDING SECTIONS. STRUCTURAL DETAILS SHOW DIMENSIONAL RELATIONSHIPS TO CONTROL DIMENSIONS DEFINED BY ARCHITECTURAL DRAWINGS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.

**DESIGN CRITERIA**

**VERTICAL LOADS**

AREA	DESIGN DEAD LOAD	LIVE LOAD (2)	PARTITION LOAD	CONCENTRATED LOADS
HIGH ROOF	30 PSF	25 PSF (1)		300#
ROOF TERRACE WITH PV	40 PSF	40 PSF		
VEGETATED ROOF	80 PSF	40 PSF		
FLOOR	20 PSF	40 PSF		

- (1) DRIFT AND UNBALANCED SNOW LOAD PER ASCE 7-16, CHAPTER 7.
- (2) LIVE LOADS EXCEPT SNOW LOADS ARE REDUCED PER IBC SECTION 1607.11.
- (3) LIVE LOAD REDUCTION NOT PERMITTED EXCEPT AS NOTED IN IBC SECTION 1607.11.
- (4) LIVE LOAD REDUCTION NOT PERMITTED.

**SNOW:** (MINIMUM ROOF SNOW LOAD = 25 PSF)

P<sub>g</sub> = 16 PSF = GROUND SNOW LOAD  
 P<sub>f</sub> = 0.7C<sub>e</sub>C<sub>t</sub>1sP<sub>g</sub> = FLAT ROOF SNOW LOAD  
 P<sub>s</sub> = C<sub>s</sub>P<sub>f</sub> = SLOPED ROOF SNOW LOAD  
 1s = 1.0, C<sub>e</sub> = 1.0, C<sub>t</sub> = 1.0, C<sub>s</sub> = VARIES

**LATERAL FORCES**

LATERAL FORCES ARE TRANSMITTED BY DIAPHRAGM ACTION OF ROOF AND FLOORS TO SHEAR WALLS / BRACED FRAMES. LOADS ARE THEN TRANSFERRED TO FOUNDATION BY SHEAR WALL / BRACED FRAME ACTION WHERE ULTIMATE DISPLACEMENT IS RESISTED BY PASSIVE PRESSURE OF EARTH AND/OR SLIDING FRICTION. OVERTURNING IS RESISTED BY DEAD LOAD OF THE STRUCTURE.

**LATERAL FORCE RESISTING SYSTEM:** ALL MEMBERS AND CONNECTIONS REFERRED TO AS LATERAL FORCE RESISTING SYSTEM (LFRS) SHALL COMPLY WITH REQUIREMENTS OF THE SEISMIC FORCE RESISTING SYSTEM AND THE WIND FORCE RESISTING SYSTEM SET FORTH IN THE SPECIAL INSPECTION REQUIREMENTS OF IBC SECTION 1704 AND 1705, AND AS NOTED IN THE STATEMENT OF SPECIAL INSPECTIONS.

**WIND:**

THE BUILDING MEETS THE CRITERIA TO USE THE "ENCLOSED, PARTIALLY ENCLOSED, AND OPEN BUILDING OF ALL HEIGHTS PROCEDURE" PER ASCE 7-16.

- EXPOSURE CATEGORY = D
- BASIC WIND SPEED, (3 SEC. GUST), V<sub>ULT</sub> = 97 MPH; V<sub>ASD</sub> = 76 MPH
- RISK CATEGORY PER IBC TABLE 1604.5 = II
- TOPOGRAPHIC FACTOR K<sub>ZT</sub> = 1.0
- INTERNAL PRESSURE COEFFICIENT (ENCLOSED) = ± 0.18
- COMPONENTS AND CLADDING LOADS, SEE THE FOLLOWING TABLES:

ROOF SURFACES <sup>1</sup>					
EFFECTIVE WIND AREA	POSITIVE PRESSURES (PSF)	NEGATIVE PRESSURES (PSF)			
		ZONE <sup>3</sup>			
	ALL ZONES	1'	1	2	3
10 SF	16.0	-24.8	-43.1	-56.9	-77.5
20 SF	16.0	-24.8	-40.3	-53.2	-70.2
50 SF	16.0	-24.8	-36.5	-48.4	-60.5
100 SF	16.0	-24.8	-33.7	-44.7	-53.2

WALL SURFACES AND ROOF OVERHANGS <sup>1</sup>					
EFFECTIVE WIND AREA	POSITIVE PRESSURE (PSF)	NEGATIVE PRESSURE (PSF)			
		ZONE <sup>2</sup>			
		4	5	4	5
10 SF	27.1	27.1	-29.4	-36.2	
20 SF	25.8	25.8	-28.1	-33.8	
50 SF	24.2	24.2	-26.5	-30.6	
100 SF	23.0	23.0	-25.3	-28.1	
500 SF	20.2	20.2	-22.5	-22.5	

ROOF OVERHANGS <sup>1</sup>				
EFFECTIVE WIND AREA	NEGATIVE PRESSURE (PSF)			
	ZONE <sup>3</sup>			
	1'	1	2	3
10 SF	-43.1	-43.1	-56.9	-77.5
20 SF	-42.4	-42.4	-52.0	-69.0
50 SF	-41.5	-41.5	-45.5	-57.7
100 SF	-40.8	-40.8	-40.7	-49.2
500 SF	-39.2	-39.2	-29.4	-29.4

- 1. VALUES SHOWN IN TABLE ARE GROSS ULTIMATE WIND PRESSURES.
- 2. WALL ZONES ARE AS DEFINED BY FIGURE 30.3-1 FOR ASCE 7-16 IN LOW RISE BUILDINGS.
- 3. ROOF ZONES ARE AS DEFINED BY FIGURES 30.3-2 THROUGH 30.3-7 IN ASCE 7-16 FOR LOW RISE BUILDINGS.

**SEISMIC:** (ASCE 7-16) V = C<sub>s</sub>W

WHERE C<sub>s</sub> =  $\frac{S_{DS}}{R/I_e}$ ; WITH

C<sub>s</sub> MINIMUM = 0.044 S<sub>DS</sub> I<sub>e</sub> ≥ 0.01  
 OR  
 C<sub>s</sub> MINIMUM =  $\frac{0.5S_1}{R/I_e}$  FOR S<sub>1</sub> > 0.6g

C<sub>s</sub> MAXIMUM =  $\frac{S_{D1}}{T_e R/I_e}$  FOR T ≤ T<sub>L</sub>  
 OR  
 C<sub>s</sub> MAXIMUM =  $\frac{S_{D1} T_1}{T^2 (R/I_e)}$  FOR T > T<sub>L</sub>

SEISMIC IMPORTANCE FACTOR, I<sub>e</sub> = 1.0  
 RISK CATEGORY OF BUILDING PER IBC TABLE 1604.5 = II  
 SPECTRAL RESPONSE ACCELERATIONS S<sub>s</sub> = 1.449 & S<sub>1</sub> = 0.501  
 SITE CLASS PER TABLE 20.3-1 = D  
 DESIGN SPECTRAL RESPONSE ACCELERATIONS S<sub>DS</sub> = 0.966  
 SEISMIC DESIGN CATEGORY = D  
 W = EFFECTIVE SEISMIC WEIGHT OF BUILDING = 404K  
 ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE PROCEDURE  
 RESPONSE MODIFICATION FACTOR PER TABLE 12.2-1, R = 5  
 C<sub>s</sub> = 0.193  
 DESIGN BASE SHEAR V = 77.9K

PIPES, DUCTS AND MECHANICAL EQUIPMENT SUPPORTED OR BRACED FROM STRUCTURE. CONFORM TO SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION, INC. PUBLICATION "SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS". SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA PAMPHLET 13.

**FOUNDATION DESIGN CRITERIA** (REPORT BY ASPECT CONSULTING PROJECT NO. 200631, SEPTEMBER 2, 2021 AND ADDENDUM DATED APRIL 26, 2022).

ACTIVE PRESSURES - UNRESTRAINED		
BACKSLOPE CONDITION	CANTILEVERED CONCRETE RETAINING WALL	SOLDIER PILE WALL**
FLAT	40 PCF	40 PCF
2H:1V	63 PCF	63 PCF
>2H:1V UP TO 1H:1V MAX.	100 PCF	100 PCF

SOIL BEARING PRESSURE: 1500 PSF \*

PASSIVE RESISTANCE: 350 PCF FOR LEVEL FORESLOPE; 110 PCF FOR 2H:1V FORESLOPE (INCLUDES F.O.S. ≥ 1.5)  
 COEFFICIENT OF FRICTION: .30 (INCLUDES F.O.S. ≥ 1.5)  
 \*1/3 INCREASE ALLOWED FOR SEISMIC OR WIND LOADING  
 \*\* MIN. ULTIMATE SOLDIER PILE DESIGN SHEAR = 180 KIPS FOR ECA WALL, 25 KIPS FOR SOUTH PROPERTY LINE WALL

ALL FOOTINGS SHALL BEAR ON DEEP FOUNDATIONS THAT BEAR ON DENSE, HIGH-STRENGTH PRE-OLYMPIA NONGLACIAL DEPOSITS BENEATH FILL. ALL SLABS ON GRADE SHALL BEAR ON STRUCTURAL BACKFILL WITH A MINIMUM DEPTH OF 18 INCHES PLACED ON A FIRM, UNYIELDING SUBGRADE. NATIVE EARTH BEARING SHALL BE SURFACE COMPACTED. AREAS OVER-EXCAVATED SHALL BE BACKFILLED WITH "STRUCTURAL BACKFILL". AREAS DESIGNATED "STRUCTURAL BACKFILL" SHALL BE FILLED WITH APPROVED WELL-GRADED BANKRUN MATERIAL. SURFICIAL FILL DEPOSITS ARE GENERALLY NOT SUITABLE FOR REUSE AS STRUCTURAL FILL. MAXIMUM SIZE OF ROCK 4". FROZEN SOIL, ORGANIC MATERIAL AND DELETERIOUS MATTER NOT ALLOWED. AT SLABS ON GRADE, COMPACT TO AT LEAST 95% OF ITS MAXIMUM DENSITY AS DETERMINED BY ASTM D1557. CONTRACTOR SHALL EXERCISE EXTREME CARE DURING EXCAVATION TO AVOID DAMAGE TO BURIED LINES, TANKS, AND OTHER CONCEALED ITEMS. UPON DISCOVERY, DO NOT PROCEED WITH WORK UNTIL RECEIVING WRITTEN INSTRUCTIONS FROM ARCHITECT. A COMPETENT REPRESENTATIVE OF THE OWNER SHALL INSPECT ALL FOOTING EXCAVATIONS FOR SUITABILITY OF BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL. PROVIDE DRAINAGE AND DEWATERING AROUND ALL WORK TO AVOID WATER-SOFTENED FOOTINGS.

**FREE DRAINING BACKFILL MATERIAL FOR RETAINING & BASEMENT WALLS**

A CLEAN, FREE DRAINING, WELL GRADED GRANULAR MATERIAL CONFORMING TO ASTM D2487 GW OR SW WHOSE MAXIMUM PARTICLE SIZE DOES NOT EXCEED 3/4" AND WHOSE FINES CONTENT (MATERIAL PASSING THE NO. 200 SIEVE) DOES NOT EXCEED 5%.

WITH A MAXIMUM DUST RATIO  $\frac{\% \text{ PASSING U.S. NO. 200 SIEVE}}{\% \text{ PASSING U.S. NO. 40 SIEVE}} = 2/3 \text{ MAX.}$

**STEEL PIPE PILES**

PIPE PILES: 4" TO 6" NOMINAL DIAMETER GALVANIZED SCHEDULE 40 DRIVEN TO REFUSAL = 20K TO 30K ALLOWABLE AXIAL COMPRESSION.

REFUSAL: LESS THAN 1" OF PENETRATION IN 20 SECONDS OF CONSTANT DRIVING WITH A MINIMUM OF 850 LB HAMMER FOR 4" PIPE OR 2000 LB HAMMER FOR 6" PIPE.

3' MINIMUM EMBED INTO UNDERLYING PRE-OLYMPIA NONGLACIAL DEPOSITS OR AS OTHERWISE APPROVED BY GEOTECHNICAL ENGINEER BASED ON OBSERVATIONS DURING PILE DRIVING, WHICHEVER IS DEEPER.

TESTING: ALLOWABLE LOADS TO BE VERIFIED BY LOAD TESTS IN ACCORDANCE WITH ASTM D-1143 "QUICK LOAD TEST". A MINIMUM OF 3% OF THE TOTAL PILES SHALL BE TESTED A MINIMUM OF ONE TIME AND MAXIMUM OF 5 TIMES PER PILE.

**MATERIAL:** PIPE PILES - ASTM A252 GR3 (F<sub>y</sub> = 45 KSI), H PILES - ASTM A992 (F<sub>y</sub> = 50 KSI).

**TIP DESIGN:** TIP DESIGN SHALL BE PER CONTRACTOR AND TAKE INTO CONSIDERATION INSTALLATION REQUIREMENTS.

**INSTALLATION:** INSTALL IN A TRUE VERTICAL POSITION. REFER TO THE GEOTECHNICAL REPORT TO DETERMINE THE GENERALIZED SUBSURFACE PROFILES, DRIVEABILITY, SOIL PROPERTIES, CONSTITUENTS, EXISTING SITE FEATURES AND CONDITIONS, AND LOAD TESTING PROTOCOLS.

**INDICATOR PILES:** THE LENGTH OF THE PILE REQUIRED AND THE PILE INSTALLATION SHALL BE VERIFIED IN THE FIELD BY A QUALIFIED INSPECTOR WHO WILL EVALUATE THE CONTRACTOR'S OPERATION AND COLLECT, INTERPRET AND RECORD DATA. A MINIMUM OF TWO INDICATOR PILES SHALL BE DRIVEN BEFORE ORDERING PRODUCTION PILES TO ESTIMATE THE TRUE PILE LENGTHS AND DETERMINE DRIVING CHARACTERISTICS AND PROBLEMS. A QUALIFIED INSPECTOR SHALL EVALUATE INSTALLATION OF INDICATOR PILES.

**SOLDIER PILE RETAINING WALLS**

INSTALL GENERALLY PER 2014 WSDOT STANDARD SPECIFICATIONS 6-05.

**GEOTECHNICAL CRITERIA:** REFER TO DESIGN CRITERIA SECTION.

**CONCRETE PILES**

ITEM	WSDOT CONCRETE CLASS	MAX. SLUMP (INCHES)	MAX. AGGREGATE SIZE	MAX. W/C RATIO
PILES WITH DRY HOLE	CDF	10"	SAND	2
PILES WITH WET HOLE	LEAN CONCRETE	10"	3/8"	2

- 1. SUBMIT PROPOSED MIX DESIGN FOR REVIEW.
- 2. WSDOT CLASS 4000P MAY BE USED AT CONTRACTOR'S PREFERENCE AT LOWER EMBEDMENT HEIGHT.
- 3. DO NOT REMOVE EARTH IN FRONT OF THE PILING UNTIL CONCRETE HAS CURED TO STRENGTH.

**CONTINUOUS FLIGHT AUGER PILE OPTION:** PILES SHALL BE INSTALLED BY DRILLING TO THE REQUIRED DEPTH WITH A CONTINUOUS FLIGHT, HOLLOW-STEM AUGER. CONCRETE SHALL BE PUMPED UNDER PRESSURE THROUGH THE HOLLOW AUGER AS THE AUGER IS WITHDRAWN, RESULTING IN A CAST-IN-PLACE PILE. THE CONTRACTOR SHALL PROVIDE A PRESSURE GAUGE IN THE GROUT LINE BETWEEN THE PUMP AND THE AUGER AND A MEANS OF MEASURING THE QUANTITY OF GROUT USED IN EACH PILE. IMMEDIATELY FOLLOWING WITHDRAWAL OF THE AUGER, STEEL PILE SHALL BE PLACED. CONFORM TO IBC 1808 AND 1810.

**OPEN HOLE PILE OPTION:** DRILL CONTINUOUSLY TO PROPER ELEVATION. PLACE CONCRETE AND STEEL PILE IMMEDIATELY AFTER DRILLING IS COMPLETE. BOTTOM OF PILE SHALL BE IMMEDIATELY SEALED WITH CONCRETE IF GROUNDWATER INFILTRATION OCCURS. EXCESS WATER IN PILE SHALL BE REMOVED WHEN OVER 12" DEEP. STEEL PILE SHALL BE INSTALLED AFTER CONCRETE PLACEMENT. PROVIDE CASING AS REQUIRED. CASING SHALL BE REMOVED 1" CLEAR MINIMUM FROM LAGGING. CONFORM TO IBC 1808 AND 1810. ALL ROCKS AND OBSTRUCTIONS SHALL BE REMOVED PRIOR TO DRILLING OPERATIONS.

**STEEL PILES**

**MATERIAL:** ASTM A992 OR A572, GRADE 50 F<sub>y</sub> = 50 KSI.

**INSTALLATION:** INSTALL IN A TRUE VERTICAL POSITION. ALIGN THE FRONT FLANGES FOR CONSISTENT ALIGNMENT ALONG THE WALL. BE EXTREMELY CAREFUL WHEN REMOVING THE CONCRETE AROUND THE FRONT FLANGE TO AVOID DAMAGE TO THE PILE AND COATING. FIELD SPLICING SHALL BE DONE AT THE UPPER END OF THE PILE WITH CONTINUOUS SPECIAL INSPECTION.

**COATING:** PRIMER COAT WITH INORGANIC ZINC RICH 2 COMPONENT COMPOUND WITH MINIMUM DRY THICKNESS OF 3 MIL MINIMUM, PREPARE STEEL FOR COATING WITH SSPC-10 WITH MIST PRIMER. RECOAT IN THE FIELD WHERE DAMAGED AND NOT PERMANENTLY CAST IN CONCRETE.

**WOOD LAGGING:**

HEM-FIR OR DOUGLAS FIR/LARCH WITH #2 OR BETTER GRADE. PRESSURE TREAT WITH CA-C, CCA, AOC OR ACZA, WITH 0.20 PCF MIN. RETENTION WITH APPROPRIATE INCISING. CONFORM TO 1999 APWA STANDARD C2. INSTALL LAGGING UNIFORMLY AND CONSISTENTLY HORIZONTAL. PROVIDE SINGLE FULL SPAN PIECES BETWEEN PILES. KEY EACH MEMBER BEHIND STEEL PILE FLANGES AS DETAILED. FIELD TREAT CUTS AND HOLES WITH COPPER NAPHTHENATE (9% SOLUTION), APPLIED LIBERALLY WITH 2 COATS.

**DRAINAGE MAT:**

PROVIDE COMPLETE INTEGRATED SYSTEM COMPONENTS FOR THE MAT AND DRAIN PIPE. CONFORM TO STANDARD SPECIFICATIONS 6-16.3(7) FOR GENERAL DESCRIPTION AND 9-33.2(3) FOR MATERIALS. CONFORM TO BDM DRAWING 8.1-A3-5 AND PRODUCT MANUFACTURER FOR SYSTEM DETAILS. REFER TO CIVIL DRAWINGS FOR DRAINAGE COLLECTION.

**SOLDIER PILES:** ALL SOLDIER PILES SITUATED WITHIN FOUR VERTICAL FEET OR LESS OF THE ESTABLISHED GRADE SHALL BE REMOVED AT OR PRIOR TO COMPLETION OF CONSTRUCTION.

**MONITORING:** SEE GEOTECHNICAL REPORT FOR MONITORING REQUIREMENTS.



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**100% CONSTRUCTION DOCUMENTS**

February 24, 2023

**REVISIONS**

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Sheet

**GENERAL NOTES S001**

**CONCRETE**

**CAST-IN-PLACE CONCRETE**

**MIX DESIGNS:** THE CONTRACTOR SHALL DESIGN CONCRETE MIXES THAT MEET OR EXCEED THE REQUIREMENTS OF THE CONCRETE MIX TABLE. THE MIX DESIGNS SHALL FACILITATE ANTICIPATED PLACEMENT METHODS, WEATHER, REBAR CONGESTION, ARCHITECTURAL FINISHES, CONSTRUCTION SEQUENCING, STRUCTURAL DETAILS, AND ALL OTHER FACTORS REQUIRED TO PROVIDE A STRUCTURALLY SOUND, AESTHETICALLY ACCEPTABLE FINISHED PRODUCT. REFER TO PROJECT SPECIFICATIONS FOR SUSTAINABILITY PERFORMANCE REQUIREMENTS. WATER REDUCING ADMIXTURES WILL LIKELY BE REQUIRED TO MEET THESE REQUIREMENTS. CONCRETE MIX DESIGNS SHALL CLEARLY INDICATE THE TARGET SLUMP. SLUMP TOLERANCE SHALL BE ± 1-1/2" INCHES.

**AGGREGATE:** COARSE AND FINE AGGREGATE SHALL CONFORM TO ASTM C33

**CEMENT:** CEMENT SHALL CONFORM TO ASTM C150. TYPE II PORTLAND CEMENT OR ASTM C595 - TYPE I/L PORTLAND LIMESTONE CEMENT, UNLESS NOTED OTHERWISE.

**FLYASH OR OTHER NATURAL POZZOLANIC MATERIALS:** SHALL CONFORM TO ASTM C618 CLASS C OR F, MAXIMUM LOSS ON IGNITION SHALL BE 1.0%.

**SLAG:** GROUND GRANULATED BLAST-FURNACE (GGBF) SLAG SHALL CONFORM TO ASTM C989 GRADE 100 OR 120.

**SILICA FUME:** SHALL CONFORM TO ASTM C1240.

**ALTERNATE MIX DESIGNS:** VARIATIONS TO THE MIX DESIGN PROPORTIONS MAY BE ACCEPTED IF SUBSTANTIATED IN ACCORDANCE WITH ACI 318, CHAPTER 19. PROVIDE SUBMITTALS A MINIMUM OF TWO WEEKS PRIOR TO BID FOR DETERMINATION OF ACCEPTABILITY.

**ADMIXTURES:** ADMIXTURES SHALL BE BY MASTER BUILDERS, W.R. GRACE, OR PRE-APPROVED EQUAL. ALL MANUFACTURER'S RECOMMENDATIONS SHALL BE FOLLOWED.

**WATER:** SHALL BE CLEAN AND POTABLE.

**MAXIMUM CHLORIDE CONTENT:** THE MAXIMUM WATER SOLUBLE CHLORIDE CONTENT SHALL NOT EXCEED 0.15% BY WEIGHT OF CEMENTITIOUS MATERIAL UNLESS NOTED OTHERWISE.

**SHOTCRETE:** SHALL CONFORM TO IBC SECTION 1908.

ITEM	MIN. f <sub>c</sub> (PSI) (AT 56 DAYS)	DENSITY (1)	EXPOSURE CLASS (2)	AGGREGATE GRADING ASTM AASHTO	MAX. SHRINKAGE LIMIT (%) (3)	NOTES
SLAB ON GRADE - EXPOSED TO WEATHER	4000	NWC	F2, S0, W1, C1	57 OR 67	0.04	
SLABS ON GRADE - U.N.O.	4000	NWC	F1, S0, W1, C1	57 OR 67	0.04	
ARCHITECTURALLY EXPOSED SLABS ON GRADE	4500	NWC	F2, S0, W1, C1	57 OR 67	0.035	1, 2
FOUNDATIONS - U.N.O.	3000	NWC	F0, S0, W0, C0	57 OR 67	--	--
MAT FOUNDATIONS	4000	NWC	F1, S0, W1, C1	57 OR 67	--	4
STEM WALLS AND OTHER WALLS EXPOSED TO EARTH OR WEATHER	4500	NWC	F2, S0, W1, C1	57 OR 67	0.04	4
STEM WALLS AND OTHER WALLS - U.N.O.	4000	NWC	F1, S0, W1, C1	57 OR 67	--	--
SHEAR WALLS	4000	NWC	--	7 OR 8	0.04	4
SOLDIER PILE SHOTCRETE	5000	NWC	F2, S0, W1, C1	7 OR 8	0.04	--
CONTROLLED DENSITY FILL (CDF)	200	--	--	SAND	--	3
ALL OTHER CONCRETE	4000	NWC	F0, S0, W0, C0	57 OR 67	--	--

- (1) NWC: NORMAL-WEIGHT CONCRETE.
- (2) EXPOSURE CLASSES ARE BASED ON ACI 318, CHAPTERS 19 AND 26.
- (3) SHRINKAGE MEASUREMENTS SHALL BE IN ACCORDANCE TO ASTM C157.

**CONCRETE MIX NOTES:**

1. MAXIMUM WATER CONTENT 240 PCY.
2. THIS MIX SHALL CONTAIN 1 GALLON PER CY OF 'ECLIPSE' SHRINKAGE REDUCING ADD MIXTURE BY W.R. GRACE OR APPROVED ALTERNATE. FOR CONCRETE REQUIRING AN AIR ENTRAINMENT ADMIXTURE, 'ECLIPSE PLUS' SHALL BE USED.
3. SAND - CEMENT CONCRETE GROUT.
4. PROVIDE HYDROPHOBIC CONCRETE AT BASEMENT WALLS, AND AS NOTED IN DETAILS. THIS MIX SHOULD CONTAIN (1) GALLON OF 'HYCRETE 360' WATERPROOFING ADMIXTURE BY HYCRETE, 'ADMIX' WATERPROOFING ADMIXTURE BY XYPEX, OR PRE-APPROVED ALTERNATE PER CUBIC YARD OF CONCRETE. MIXES UTILIZING A WATERPROOFING ADMIXTURE SHALL CONTAIN A LIMITED AMOUNT OF SUPPLEMENTAL CEMENTITIOUS MATERIALS, NOTED IN THE SPECIFICATIONS AND A MAXIMUM W/C RATIO OF 0.42.

**CONCRETE PLACEMENT**

PLACE CONCRETE FOLLOWING ALL APPLICABLE ACI RECOMMENDATIONS. CONCRETE SHALL BE PROPERLY CONSOLIDATED PER ACI 309 USING INTERIOR MECHANICAL VIBRATORS, DO NOT OVER-VIBRATE. CONCRETE SHALL BE POURED MONOLITHICALLY BETWEEN CONSTRUCTION OR EXPANSION JOINTS. IF CONCRETE IS PLACED BY THE PUMP METHOD, HORSES SHALL BE PROVIDED TO SUPPORT THE HOSE, THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING. WEATHER FORECASTS SHALL BE MONITORED AND ACI RECOMMENDATIONS FOR HOT AND COLD WEATHER CONCRETING SHALL BE FOLLOWED AS REQUIRED. CONCRETE SHALL NOT FREE FALL MORE THAN 5 FEET DURING PLACEMENT WITHOUT WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

**FLOATING & FINISHING OPERATIONS**

WATER SHALL NOT BE ADDED TO THE CONCRETE SURFACE DURING FLOATING & FINISHING OPERATIONS. PRE-APPROVED EVAPORATION RETARDER SPECIFICALLY DESIGNED FOR FLOATING & FINISHING OPERATIONS ARE ACCEPTABLE.

**FORMED SURFACES:**

ARCH SPEC. SECTIONS THAT ARE MORE STRINGENT SUPERCEDE STRUCTURAL GENERAL NOTES.

FORMWORK CLASS OF SURFACE PER ACI 347 TABLE 3.1	
ITEM	CLASS OF FINISH
ALL SURFACES EXPOSED TO PUBLIC VIEW, U.N.O.	A
ALL SURFACES RECEIVING A COURSE TEXTURED COATING SUCH AS PLASTER OR STUCCO, UNLESS NOTED OTHERWISE	B
ALL OTHER SURFACES, UNLESS NOTED OTHERWISE	C

**FORMWORK STRIPPING**

**WALLS:** WALLS NOT SUPPORTING FRAMING WEIGHT MAY BE STRIPPED AS SOON AS FORMS CAN BE REMOVED WITHOUT DAMAGING THE CONCRETE AND THE CONCRETE HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 500 PSI.

**SLABS:** SLABS MAY BE STRIPPED AND BECOME SELF SUPPORTING AS SOON AS THEIR COMPRESSIVE STRENGTH REACHES 75% OF THE SPECIFIED DESIGN STRENGTH. RESHORING SHALL BE PROVIDED FOR ALL CONSTRUCTION LOADS THEREAFTER PER THE GENERAL CONTRACTOR.

**COLD WEATHER PLACEMENT:**

1. COLD WEATHER IS DEFINED BY ACI 306 AS "A PERIOD WHEN FOR MORE THAN 3 SUCCESSIVE DAYS THE MEAN DAILY TEMPERATURE DROPS BELOW 40° F."
2. NO CONCRETE SHALL BE PLACED ON FROZEN OR PARTIALLY FROZEN GROUND. THAWING THE GROUND WITH HEATERS IS PERMISSIBLE.
3. CONCRETE MIX TEMPERATURES SHALL BE AS SHOWN BELOW. HEATING OF WATER AND/OR AGGREGATES MAY BE REQUIRED TO ATTAIN THESE TEMPERATURES.
4. THE CONCRETE MAY REQUIRE PROTECTION FOR 4-7 DAYS AFTER POURING. IF TEMPERATURES REMAIN BELOW FREEZING, INSULATING BLANKET COVERAGE IS REQUIRED. IF TEMPERATURES ARE SLIGHTLY BELOW FREEZING (30° F MIN.) AT NIGHT AND ABOVE FREEZING DURING THE DAY, KRAFT PAPER WITH COMPLETE COVERAGE MAY BE USED IN LIEU OF INSULATED BLANKETS.
5. NO ADDITIVES CONTAINING CHLORIDES SHALL BE USED. USE "POZZUTEC 20+" BY MASTER BUILDERS OR "POLARSET" BY W.R. GRACE OR PRE-APPROVED EQUAL.

CONDITION OF PLACEMENT AND CURING		WALLS & SLABS	FOOTINGS
MIN. TEMP. FRESH CONCRETE AS MIXED FOR WEATHER INDICATED, DEGREES F.	ABOVE 30° F. 0° TO 30° F. BELOW 0° F.	60° 65° 70°	55° 60° 65°
MIN. TEMP. FRESH CONCRETE AS PLACED AND MAINTAINED, DEGREES F.		55°	50°
MAX. ALLOWABLE GRADUAL DROP IN TEMP. THROUGHOUT FIRST 24 HOURS AFTER END OF PROTECTION, DEGREES F.		50°	40°

**HOT OR WINDY WEATHER PLACEMENT**

HOT WEATHER IS DEFINED BY ACI 305 AS "ANY COMBINATION OF HIGH AIR TEMPERATURE, LOW RELATIVE HUMIDITY, AND WIND VELOCITY, TENDING TO IMPAIR THE QUALITY OF FRESH HARDENED CONCRETE. ACI 305 FIGURE 2.1.5 SHALL BE USED BY THE CONTRACTOR TO ESTIMATE THE RATE OF EVAPORATION. WHEN THE ESTIMATED RATE OF EVAPORATION IS GREATER THAN 0.2 PSF/HOUR THE PLACEMENT SHALL BE CONSIDERED A HOT WEATHER PLACEMENT. PRECAUTIONS AGAINST PLASTIC SHRINKAGE CRACKING ARE NECESSARY. PRECAUTIONS TAKEN BY THE CONTRACTOR VARY DEPENDING UPON THE FACTORS ASSOCIATED WITH WATER EVAPORATION AND INCLUDE BUT ARE NOT LIMITED TO:

1. LIMITING CONCRETE TEMPERATURE TO 100°F AT TIME OF PLACEMENT.
2. APPLICATION OF AN EVAPORATION RETARDER.
3. USE OF FOG SPRAY.
4. REDUCTION OF POUR SIZE.
5. PLACING CONCRETE AT NIGHT.

**CONTROL AND CONSTRUCTION JOINTS**

CONSTRUCTION JOINTS SHALL MEET THE REQUIREMENTS OF ACI 301 SECTIONS 2.2.2.5 AND 5.3.2.6. SPECIAL BONDING METHODS PER SECTION 5.3.2.6 SHALL BE SATISFIED BY ITEM 5 BELOW UNLESS OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN ON PLAN OR ADDITIONAL CONSTRUCTION JOINTS ARE REQUIRED SUBMIT PROPOSED JOINTING FOR STRUCTURAL ENGINEERS APPROVAL. PROVIDE CONSTRUCTION JOINTS AS INDICATED BELOW UNLESS NOTED OTHERWISE ON THE PLANS:

1. SLABS ON GRADE: PROVIDE CONSTRUCTION AND/OR CONTROL JOINTS AT 16 FEET O.C. MAXIMUM FOR UNEXPOSED SLABS ON GRADE AND 12 FEET O.C. FOR EXPOSED SLABS ON GRADE. COORDINATE JOINTS WITH ARCHITECTURAL DRAWINGS.
2. WALLS: COORDINATE CONSTRUCTION JOINTS WITH ARCHITECTURAL REVEALS.
3. BONDING AGENT: WHERE BONDING AGENT IS SPECIFICALLY CALLED OUT ON THE STRUCTURAL DRAWINGS USE "WELD CRETE" BY LARSON PRODUCTS CORPORATION OR PRE-APPROVED EQUAL. FOLLOW ALL MANUFACTURERS RECOMMENDATIONS.

**EMBEDDED ITEMS**

1. NO ALUMINUM ITEMS SHALL BE EMBEDDED IN ANY CONCRETE.
2. ALL EMBED PLATES SHALL BE SECURELY FASTENED IN PLACE.
3. ALL EMBEDDED STEEL ITEMS EXPOSED TO WEATHER SHALL BE PAINTED UNLESS NOTED AS GALVANIZED. SEE DRAWINGS AND SPECIFICATIONS FOR PAINT, PRIMER, AND GALVANIZING REQUIREMENTS.

**CONCRETE CURING AND SEALING**

CURING PROCEDURES SHALL COMMENCE IMMEDIATELY AFTER FINISHING CONCRETE TO MAINTAIN CONCRETE IN A MOIST CONDITION. VERIFY CURING AND/OR SEALING PRODUCTS ARE COMPATIBLE WITH FLOOR COVERINGS SHOWN ON THE ARCHITECTURAL DRAWINGS. FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS. SLABS ARE DEFINED AS SLABS ON GRADE, CONCRETE ON METAL DECK, ELEVATED POST-TENSIONED OR MILD REINFORCED DECKS, AND TOPPING SLABS.

ITEM	CONCRETE CURING NOTES
SLABS EXPOSED TO EARTH OR WEATHER OR VEHICLE OR FORKLIFT TRAFFIC INCLUDING LOADING DOCKS	1, (3 OR 4 OR 5), 6
ALL OTHER SLABS	1, (3 OR 4 OR 5)
FORMED SURFACES EXCLUDING FOUNDATIONS	2
SHOTCRETE WALLS	4
ALL OTHER CONCRETE	NONE

**CONCRETE CURING NOTES:**

1. WHEN THE ESTIMATED EVAPORATION RATE IS GREATER THAN 0.2 PSF/HOUR PROVIDE A SPRAY APPLIED EVAPORATION RETARDER IMMEDIATELY AFTER CONCRETE PLACEMENT. THE EVAPORATION RATE MAY BE CALCULATED PER ACI 305 FIGURE 2.1.5.
2. APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND, CONFORMING TO ASTM C309 TYPE 1 CLASS B SPECIFICATIONS, PER MANUFACTURER'S RECOMMENDATIONS TO ALL FORMED SURFACES IMMEDIATELY AFTER FINAL FORM REMOVAL. NOT REQUIRED IF FORMWORK REMAINS IN PLACE FOR MORE THAN 7 DAYS.
3. PROVIDE PRE-APPROVED CONTINUOUS WET CURE METHOD FOR A MINIMUM OF 14 DAYS.
4. APPLY A LIQUID MEMBRANE FORMING CURING COMPOUND, CONFORMING TO ASTM C309 TYPE 1 CLASS B SPECIFICATIONS OR ASTM C1315 TYPE 1 CLASS A SPECIFICATIONS, PER MANUFACTURER'S RECOMMENDATIONS IMMEDIATELY AFTER FINAL FINISHING. CURING COMPOUND SHALL BE COMPATIBLE WITH ARCHITECTURAL FLOOR COVERINGS AND SEALERS.
5. PROVIDE 'ULTRACURE MAX' MOISTURE RETAINING COVER BY MCTECH GROUP, OR APPROVED EQUAL, FOR A MINIMUM OF 14 DAYS.
6. APPLY A SILANE SEALER WITH MINIMUM SOLIDS CONTENT OF 40% PER MANUFACTURER'S RECOMMENDATIONS.

**GROUT**

**NON-SHRINK GROUT:** MASTER BUILDERS "MASTERFLOW 928" OR PRE-APPROVED EQUAL. GROUT SHALL CONFORM TO CRD-C621 AND ASTM C1107 WHEN TESTED AT A FLUID CONSISTENCY PER CRD-C611-85 FOR 30 MINUTES. GROUT MAY BE PLACED FROM A 25 SECOND FLOW TO A STIFF PACKING CONSISTENCY. FILL OR PACK ENTIRE SPACE UNDER PLATES OR SHAPES. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PREPARATION, INSTALLATION, AND CURING.

**REINFORCING STEEL**

REINFORCING STEEL SHALL CONFORM TO:

ASTM A615, GRADE 60 TYPICAL UNLESS NOTED OTHERWISE.

DETAIL FABRICATE AND PLACE PER ACI 315 AND ACI 318.

REINFORCING SPLICE AND DEVELOPMENT LENGTH SCHEDULE, F <sub>y</sub> =60 KSI (UNLESS NOTED OTHERWISE)					
BAR SIZE	MINIMUM LAP SPLICE LENGTHS ("L <sub>s</sub> ")		MINIMUM DEVELOPMENT LENGTHS ("L <sub>d</sub> ")		MINIMUM EMBEDMENT LENGTH FOR STANDARD END HOOKS ("L <sub>dh</sub> ")
	TOP BARS (1)	OTHER BARS	TOP BARS (1)	OTHER BARS	
#3	2'-0"	1'-6"	1'-6"	1'-3"	0'-7"
#4	2'-8"	2'-0"	2'-0"	1'-7"	0'-9"
#5	3'-4"	2'-7"	2'-7"	2'-0"	1'-0"
#6	4'-0"	3'-1"	3'-1"	2'-4"	1'-2"
#7	5'-10"	4'-6"	4'-6"	3'-6"	1'-5"
#8	6'-8"	5'-2"	5'-2"	3'-11"	1'-7"
#9	7'-6"	5'-10"	5'-10"	4'-6"	1'-9"
#10	8'-6"	6'-6"	6'-6"	5'-0"	2'-0"
#11	9'-5"	7'-3"	7'-3"	5'-7"	2'-3"

**SPLICE TABLE NOTES:**

1. "TOP BARS" ARE HORIZONTAL BARS WITH MORE THAN 12" DEPTH OF CONCRETE CAST BELOW THEM.

**MECHANICAL COUPLERS:** "LENTON" BY ERICO, "CADWELD" BY ERICO, "BAR-LOCK" BY DAYTON SUPERIOR L-SERIES, OR PRE-APPROVED EQUAL. COUPLERS SHALL BE TYPE 2 PER ACI 318 SECTION 18.2.7.1.

**FORM SAVERS:** "LENTON" BY ERICO THREADED FORM SAVERS TYPE FS OR APPROVED EQUAL.

**REINFORCING STEEL COVER**

PROVIDE CONCRETE COVER OVER REINFORCEMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

CONCRETE CAST AGAINST EARTH ----- 3"  
EXPOSED TO WEATHER OR EARTH ----- 2"  
WALLS AND SLABS NOT EXPOSED TO WEATHER--- 3/4"

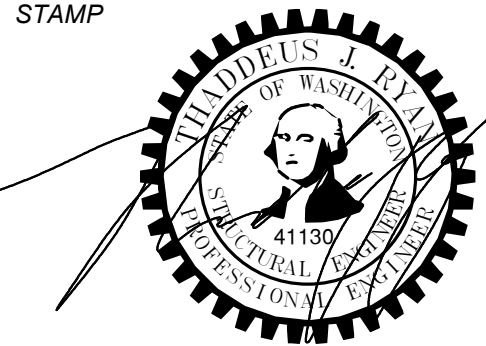


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SHEET

**GENERAL NOTES S002**



**CARPENTRY (CONTINUED)**

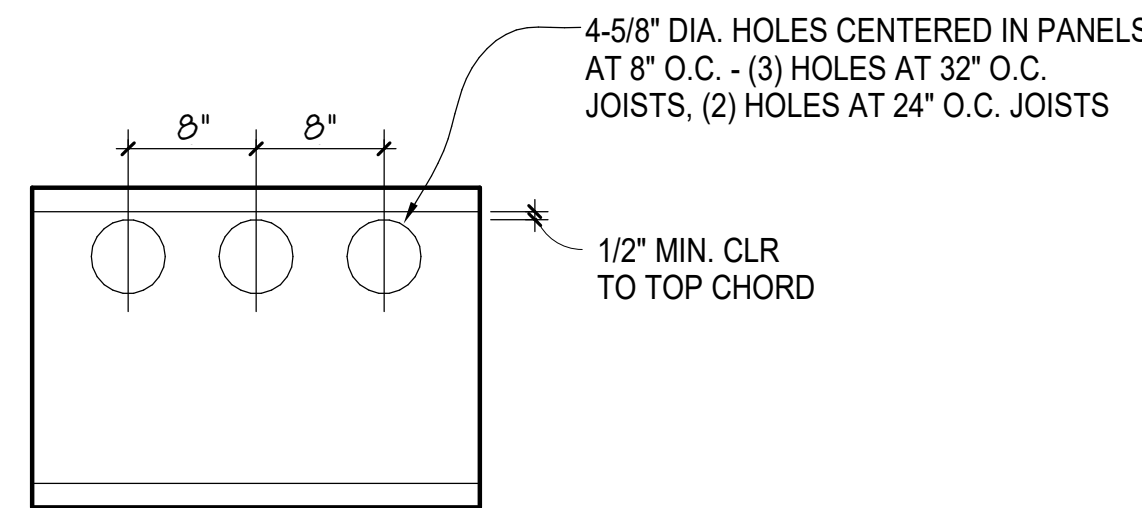
GENERAL REQUIREMENTS: PROVIDE MINIMUM NAILING PER IBC TABLE 2304.10.1 OR MORE, AS OTHERWISE SHOWN. STAGGER ALL NAILING TO PREVENT SPLITTING OF WOOD MEMBERS. ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESERVATIVE TREATED WITH THE EXCEPTION OF INTERIOR CONCRETE TOPPINGS ON WOOD FLOOR SYSTEMS. HOLES AND CUTS IN 3x OR 4x PLATES SHOULD BE TREATED WITH A 9% SOLUTION OF COPPER NAPHTHENATE. BOLT HOLES IN WOOD MEMBERS SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN THE BOLT DIAMETER. PROVIDE CUT WASHERS WHERE BOLT HEADS, NUTS AND LAG SCREW HEADS BEAR ON WOOD. PROVIDE A MINIMUM 3"x3"x0.229" PLATE WASHER ON ALL ANCHOR BOLTS WHICH CONNECT MUD SILLS TO FOUNDATION. DO NOT NOTCH OR DRILL STRUCTURAL MEMBERS, EXCEPT AS ALLOWED BY IBC SECTIONS 2308.4.2.4, 2308.5.9, 2308.5.10 AND 2308.7.4 OR AS RESTRICTED BY PLANS OR DETAILS, OR AS APPROVED PRIOR TO INSTALLATION. REFER TO PRESERVATIVE TREATED WOOD REQUIREMENTS IN THESE GENERAL NOTES FOR GALVANIZING REQUIREMENTS FOR CONNECTORS AND FASTENERS.

WOOD SHRINKAGE AND CONSOLIDATION: SHRINKAGE OF WOOD MEMBERS AND CONSOLIDATION OF BEARING WALLS IS EXPECTED FROM TIME OF FRAMING UNTIL AFTER BUILDING IS PUT IN SERVICE. MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS SHALL BE CONSTRUCTED TO ACCOMMODATE 1/4" OF TOTAL SETTLEMENT PER STORY.

FRAMING CONNECTORS: SHALL CONFORM TO CURRENT EVALUATION REPORT AND BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, SAN LEANDRO, CA, OR PRE-APPROVED EQUAL. PROVIDE MAXIMUM SIZE AND QUANTITY OF NAILS OR BOLTS PER MANUFACTURER, EXCEPT AS NOTED OTHERWISE. PROVIDE LEAD HOLES AS REQUIRED TO PREVENT SPLITTING OF WOOD MEMBERS. REFER TO PRESERVATIVE TREATED WOOD REQUIREMENTS IN THESE GENERAL NOTES FOR GALVANIZING REQUIREMENTS FOR CONNECTORS AND FASTENERS.

LAG SCREWS: SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1. LAG SCREWS SHALL BE OF A DIAMETER INDICATED ON DRAWINGS WITH A MINIMUM OF 8x DIA. EMBEDMENT IN SUPPORTING MEMBER UNLESS NOTED OTHERWISE. CLEARANCE HOLE FOR THE SHANK SHALL BE THE SAME DIAMETER AS THE SHANK AND THE SAME DEPTH OF PENETRATION AS THE UNTHREADED PORTION OF THE SHANK. THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER EQUAL TO 60 TO 75 PERCENT OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION. THE THREADED PORTION OF THE SCREW SHALL BE INSERTED IN ITS LEAD HOLE BY TURNING WITH A WRENCH. SOAP OR OTHER LUBRICANT SHALL BE USED ON THE SCREWS OR IN THE LEAD HOLE TO FACILITATE INSERTION AND PREVENT DAMAGE TO THE SCREW. LAG SCREWS SHALL NOT BE DRIVEN WITH A HAMMER. REFER TO PRESERVATIVE TREATED WOOD REQUIREMENTS IN THESE GENERAL NOTES FOR GALVANIZING REQUIREMENTS FOR CONNECTORS AND FASTENERS.

I-JOISTS: SHALL BE MANUFACTURED BY TRUS JOIST, OR PRE-APPROVED EQUAL IN ACCORDANCE WITH APPROVED SHOP AND INSTALLATION DRAWINGS. SEE PROJECT SPECIFICATIONS FOR FSC CERTIFICATION REQUIREMENTS. MEMBERS SHALL BE DESIGNED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF PROJECT. THE ENTIRE OPEN-WEB TRUSS/I-JOIST ASSEMBLY SHALL BE AS APPROVED BY CURRENT EVALUATION REPORT. MEMBERS SHALL BE DESIGNED TO CARRY THE LOADS LISTED IN THE DESIGN CRITERION AND ANY ADDITIONAL LOADS INDICATED ON THE FRAMING PLANS AND DETAILS. THE TRUSS ENGINEER SHALL ASSUME ALL RESPONSIBILITY FOR THE WORK OF ALL SUBORDINATES INVOLVED IN THE PREPARATION OF THE TRUSS PLACEMENT PLANS AND TRUSS DESIGN DRAWINGS. TRUSSES/I-JOISTS SHALL BE PROVIDED TO COMPLETE THE ROOF AND/OR FLOOR FRAMING FROM THE SHEATHING TO THE SUPPORTING MEMBERS BELOW. MEMBER DESIGNATIONS ON PLANS ARE FOR TYPICAL UNIFORMLY LOADED CONDITIONS. MANUFACTURER SHALL PROVIDE ADDITIONAL MEMBERS AS REQUIRED TO SUPPORT SPECIAL LOADING CONDITIONS INDICATED ON DRAWINGS. TOP CHORD AT STRAP CONNECTIONS TO CONCRETE OR MASONRY WALLS SHALL BE COMPOSED OF A STRUCTURAL COMPOSITE LUMBER MEMBER APPROVED BY A CURRENT EVALUATION REPORT FOR SUCH A USE OR AT CONTRACTORS OPTION, STRAP NAIL HOLES SHALL BE PRE-DRILLED IN CHORD. PROVIDE SHOP AND INSTALLATION DRAWINGS AND CALCULATIONS PRODUCED UNDER THE SUPERVISION OF AND BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF PROJECT. DETAIL DRAWINGS TO INDICATE MEMBER TYPES, SIZE, SPACING, BRIDGING, BLOCKING, CONNECTIONS, ANCHORING, BEARING PLATE AND OTHER PERTINENT DETAILS. PROVIDE 1 1/2" DIA. OPEN KNOCKOUTS AT 12" O.C. ON ALL ROOF I-JOISTS.



**TYPICAL I-JOIST VENTED BLOCKING**  
NO SCALE

MEMBER DESIGN CALCULATIONS SHALL BE PROVIDED FOR STANDARD LOADING ALONG WITH DESIGN CHECKS FOR SPECIAL LOADING CONDITIONS WHICH INCLUDE FREE BODY DIAGRAMS, LOADING BREAK DOWN, DESCRIPTION OF LOADS (I.E. MECH UNIT, SUSPENDED WALL, ETC.) AND THE RATIONALE FOR LOADING DISTRIBUTION ON MULTIPLE MEMBERS. SUBMITTAL SHALL ALSO PROVIDE ANY DOCUMENTATION NECESSARY TO INTERPRET DATA INDICATED ON CALCULATIONS.

MEMBERS HAVE BEEN DESIGNED TO MEET SERVICEABILITY AND OTHER PERFORMANCE BASED REQUIREMENTS, WHICH MAY EXCEED MINIMUM DESIGN LOADS AND CODE REQUIREMENTS. SUBSTITUTIONS MUST MEET OR EXCEED MOMENT, SHEAR, AND STIFFNESS OF THOSE MEMBERS SPECIFIED AT THE SAME DEPTH AND SPACING.

REFER TO THE **FRAMING CONNECTORS** SECTION OF THESE GENERAL NOTES FOR REQUIREMENTS PLACED UPON CONNECTOR HARDWARE SPECIFIED BY TRUSS ENGINEER AND/OR PROVIDED BY TRUSS MANUFACTURER.

SPRINKLER LINE ATTACHMENTS SHALL CONFORM TO NFPA 13 AND COMMERCIAL PUBLICATION "SPRINKLER SYSTEM INSTALLATION WITH GUIDELINES FOR REDBUILT OPEN-WEB TRUSSES AND I-JOISTS". LOADS HUNG FROM JOIST NOT SPECIFICALLY IDENTIFIED ON STRUCTURAL DRAWINGS SHALL NOT EXCEED 30 POUNDS AT ANY ONE POINT, NOR SHALL TOTAL LOADS IN POUNDS ON ANY ONE JOIST EXCEED 8 TIMES THE JOIST SPAN IN FEET, UNLESS DETAILED OTHERWISE ON THE DRAWINGS. ATTACHMENT OF LOADS EXCEEDING 90 POUNDS SHALL BE APPROVED PRIOR TO INSTALLATION. DO NOT NOTCH OR DRILL THRU TRUSS MEMBERS.

**MISCELLANEOUS:**

PRE-APPROVED SUBSTITUTIONS: SUBSTITUTIONS MAY BE ALLOWED ONLY IF THEY MEET THE REQUIREMENTS OF THESE GENERAL NOTES AND THE SPECIFICATIONS, AND IF COMPLETE WRITTEN ENGINEERING DATA FOR EACH CONDITION REQUIRED FOR THIS PROJECT IS PROVIDED TO THE STRUCTURAL ENGINEER TWO WEEKS PRIOR TO BID DATE AND APPROVED IN WRITTEN ADDENDA BY THE ARCHITECT. DATA IS TO INDICATE CODE BASIS BY YEAR, AUTHORITY FOR STRESSES AND STRESS INCREASES, IF ANY, AND AMOUNT OF EXPECTED DEFLECTION FOR FLEXURAL MEMBERS UNDER (1) TOTAL LOAD AND (2) LIVE LOAD ONLY. ALL INCREASED COSTS IN MECHANICAL, SPRINKLER, ELECTRICAL OR GENERAL INSTALLATION AND ANY ARCHITECTURAL OR STRUCTURAL REDESIGN RESULTING FROM SUBSTITUTION SHALL BE BORNE BY THE GENERAL CONTRACTOR.

**SHOP DRAWINGS/SUBMITTALS**

THE FOLLOWING SHOP DRAWINGS/SUBMITTALS SHALL BE PROVIDED FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION OR DELIVERY.

	STRUCTURAL ENGR.	BLDG. DEPT.
1. CONCRETE MIX DESIGNS	X	X
2. REINFORCING STEEL SHOP DRAWINGS	X	
3. STRUCTURAL STEEL	X	X
4. MISCELLANEOUS STEEL	X	X
5. GLU-LAMINATED MEMBERS	X	X
6. STRUCTURAL COMPOSITE LUMBER	X	X
7. WOOD I-JOISTS	X	X
8. CONDUIT EMBEDDED IN CONCRETE	X	X
9. CONTRACTOR'S STATEMENT OF RESPONSIBILITY	X	X

**DEFERRED SUBMITTALS**

THE FOLLOWING ARE NOT INCLUDED WITH THE BUILDING PERMIT DRAWINGS AND SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL AS A DEFERRED SUBMITTAL. SUBMITTALS SHALL BE STAMPED BY AN ENGINEER LICENSED IN THE STATE OF THE PROJECT AS NOTED.

	ENGINEER STAMP REQUIRED
1. WOOD I-JOISTS	PE
2. CURTAIN WALL	SE
3. FALL RESTRAINTS	PE

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED BY AN INDEPENDENT TESTING LABORATORY PER THE REQUIREMENTS OF IBC CHAPTER 17 AND THE LOCAL BUILDING OFFICIAL OR APPLICABLE JURISDICTION AND THE CONTRACT DOCUMENTS. THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS AND A FINAL SIGNED REPORT TO THE BUILDING OFFICIAL FOR THE ITEMS LISTED IN THE QUALITY ASSURANCE/SPECIAL INSPECTION SECTION:

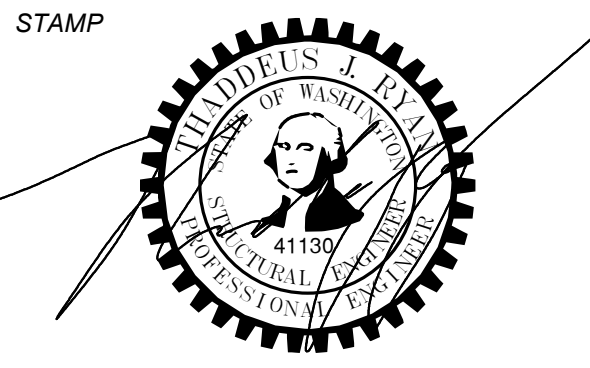
**STATEMENT OF SPECIAL INSPECTIONS:**

SPECIAL INSPECTION: SPECIAL INSPECTION SHALL BE PROVIDED PER THE REQUIREMENTS OF IBC SECTION 1704 AND 1705 AND AS NOTED HEREIN.

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES	
SOILS	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X		IBC 1705.6	
	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X			
	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X			
	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X				
	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X			
SOLDIER PILE WALLS	GEOTECHNICAL ENGINEER TO MONITOR CONSTRUCTION & REVIEW MOVEMENT READINGS	△	X			
STEEL CONSTRUCTION	MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS			X	AISC 360 CHAPTER N5	
	HIGH-STRENGTH BOLTING A. SNUG-TIGHT JOINTS B. PRETENSIONED AND SLIP-CRITICAL JOINTS USING TURN-OF-NUT WITH MATCHMARKING, TWIST OFF BOLTS OR DIRECT TENSION INDICATOR METHODS OF INSTALLATION			X X	AISC 360 CHAPTER N5 AISC 341 CHAPTER J7	
	MATERIAL VERIFICATION OF STRUCTURAL STEEL A. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360 B. MANUFACTURER'S CERTIFIED MILL TEST REPORTS			X X	MANUFACTURER TO PROVIDE CERTIFIED MILL TEST REPORTS	AISC 360 CHAPTER N5 AISC 341 CHAPTER J6
	MATERIAL VERIFICATION OF WELD FILLER MATERIALS A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATIONS LISTED IN GENERAL NOTES B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE			X X	MANUFACTURER TO PROVIDE CERTIFICATE OF COMPLIANCE	AISC 360 CHAPTER N5
	INSPECTION OF WELDING A. COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS B. MULTI-PASS FILLET WELDS C. SINGLE-PASS FILLET WELDS > 5/16" D. PLUG AND SLOT WELDS E. SINGLE-PASS FILLET WELDS ≤ 5/16" F. FIELD-INSTALLED WELDED STUDS G. WELDING OF STAIRS AND RAILING SYSTEMS	X X X X		X X X	SPECIAL INSPECTIONS IN THIS SECTION ARE WAIVED WHERE FABRICATION IS PERFORMED ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED IN ACCORDANCE WITH IBC SECTION 1704.2.5	AISC 360 CHAPTER N5 AISC 341 CHAPTER J6 AWS D1.1
	INSPECTION OF LATERAL FORCE-RESISTING SYSTEM CONNECTIONS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS			X		
	INSPECTION OF WELDING A. COLD-FORM STEEL DECK WELDS B. REINFORCING STEEL: 1. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706 2. REINFORCING STEEL IN MOMENT FRAMES AND BOUNDARY ELEMENTS 3. SHEAR REINFORCEMENT 4. OTHER REINFORCING STEEL 5. OPEN WEB STEEL JOISTS & JOIST GIRDERS A. END CONNECTIONS - WELDING OR BOLTED B. BRIDGING - HORIZONTAL OR DIAGONAL 1. STANDARD BRIDGING 2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1	X X X X X X X X		X X X		AWS D1.3 AWS D1.4 ACI 318:26.6.4      IBC 1705.2.3 SJI SPECIFICATIONS LISTED IN SECTION 2207.1 SJI SPECIFICATIONS LISTED IN SECTION 2207.1
STEEL PIPE PILES	GEOTECHNICAL ENGINEER TO MONITOR INSTALLATION AND LOAD TESTING.	X				



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**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
MERCER ISLAND, WA 98040

**SUBMITTAL**

**100% CONSTRUCTION DOCUMENTS**

February 24, 2023

**REVISIONS**

No.	Description	Date
1	BUILDING PERMIT RESUBMITTAL	10/27/22

Drawn: DEH  
Checked: TJR  
MJH Proj No.: A20.0085.00

Issue Date: February 24, 2023

**SHEET**

STRUCTURAL SYSTEM	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	COMMENTS	REFERENCES	
CONCRETE	REINFORCING STEEL AND PLACEMENT		X	SPECIAL INSPECTIONS NOT REQUIRED FOR THE FOLLOWING CONDITIONS:	ACI 318: CH 20, 25.2, 25.3, 26.6-1 TO 26.6-3, IBC 1908.4	
	ANCHORS CAST IN CONCRETE-PRIOR TO AND DURING PLACEMENT OF CONCRETE		X	NON-STRUCTURAL SLAB ON GRADE	ACI 318: 17.8.2 AISC 360 SECTION N7	
	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (MECHANICAL ANCHORS INSTALLED IN ANY DIRECTION AND ADHESIVE ANCHORS INSTALLED DOWNWARD)			X	PERIODIC INSPECTION TO INCLUDE A QUANTITY OF 10% WITH A MINIMUM OF (5) ANCHORS INSPECTED PER INSTALLER ON A DAILY BASIS.	ACI 318: 17.8.2 MFR EVAL REPORT MFR PUBLISHED INSTALLATION INSTRUCTIONS
	ANCHORS POST-INSTALLED IN HARDENED CONCRETE (ADHESIVE ANCHORS INSTALLED HORIZONTAL OR UPWARDLY INCLINED)	X				ACI 318: 17.8.2 MFR EVAL REPORT MFR PUBLISHED INSTALLATION INSTRUCTIONS
	VERIFY USE OF REQUIRED DESIGN MIX			X		ACI 318, CH 19
	PRIOR TO CONCRETE AND SHOTCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X				ASTM C172, C31 ACI 318: 26.4, 26.12 IBC 1908.10
	CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION	X				ACI 318: 26.5 IBC 1908.6, 1908.7, 1908.8
	MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES			X		ACI 318: 26.5.3 TO 26.5.5 IBC 1908.9
	VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS			X		ACI 318: 26.11.2
	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED			X		ACI 318: 26.11.1.2(b)
MATERIAL VERIFICATION OF REINFORCEMENT STEEL FOR ASTM A615 REINFORCING			X	MANUFACTURER SHALL PROVIDE MILL TEST REPORTS. CONTINUOUS INSPECTION FOR ALL WELDS GREATER THAN 5/16" FILLET. PERIODIC INSPECTION FOR FILLET WELD 5/16" AND SMALLER	ACI 318: 26.6.4 AWS D1.4 IBC 1705.3.1	
TESTING OF MATERIALS			X		IBC 1705.3.2	
WOOD FRAMING	SHEAR WALL NAILING		X	SPECIAL INSPECTION NOT REQUIRED FOR FASTENER SPACING > 4" O.C.	IBC 1705.11.1, 1705.12.2, 1705.5	
	DIAPHRAGM NAILING		X	SPECIAL INSPECTION NOT REQUIRED FOR FASTENER SPACING > 4" O.C.	IBC 1705.11.1, 1705.12.2, 1705.5	
	NAILING, BOLTING, AND ANCHORAGE OF COMPONENTS THAT ARE PART OF DRAG STRUTS, BRACES AND HOLD-DOWNS THAT ARE PART OF THE SEISMIC RESISTING SYSTEM			X	IBC 1705.11.1, 1705.12.2	
CLADDING, AND NON-BEARING WALLS	ERECTION AND FASTENING		X	NOT REQUIRED FOR STRUCTURES ≤ 30 FT OR CLADDING OR VENEER ≤ 5 PSF OR INTERIOR NON-BEARING WALLS ≤ 15 PSF	IBC 1705.12.5	
ELECTRICAL EQUIPMENT	ANCHORAGE OF EQUIPMENT TO STRUCTURE		X	SPECIAL INSPECTION ONLY REQUIRED IN SEISMIC DESIGN CATEGORY E OR F	IBC 1705.12.5.6	
MECHANICAL AND ELECTRICAL SYSTEMS	MINIMUM CLEARANCE TO SPRINKLER PIPING OF 3"		X		IBC 1705.12.6	

TESTING AND SPECIAL INSPECTION REPORTS SHALL BE PREPARED FOR EACH INSPECTION ITEM ON A DAILY BASIS WHENEVER WORK IS PERFORMED ON THAT ITEM. REPORTS SHALL BE DISTRIBUTED TO OWNER, CONTRACTOR, BUILDING OFFICIAL, ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.

STRUCTURAL OBSERVATIONS SHALL BE PERFORMED BY THE STRUCTURAL ENGINEER OF RECORD OR DESIGNATED REPRESENTATIVE IN ACCORDANCE WITH IBC 1704.6. STRUCTURAL OBSERVATION SHALL BE PERFORMED AS FOLLOWS:

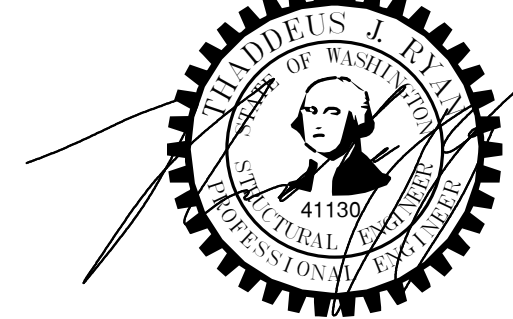
- » SITE OBSERVATIONS WILL BE PERFORMED EVERY 6-8 WEEKS - OR SOONER AS THE PROJECT SCHEDULE MAY DICTATE - FOR THE FOLLOWING (BUT NOT LIMITED TO):
  - » PRIOR TO CONCRETE FOUNDATION POUR
  - » PRIOR TO CONCRETE WALL POUR
  - » UPON SIGNIFICANT COMPLETION OF LOAD-BEARING WALL FRAMING
  - » COVERED WALKWAY:
    - » INSPECTION/VERIFICATION OF CONCEALED HARDWARE FOR BEAM AND GIRDER CONNECTIONS INCLUDING THE ROD BRACING ANCHORING.
    - » SIMPSON CBH HARDWARE INSTANCES.
    - » KERF PLATES AT BASE AND ELEVATED WALK PATH.
  - » MAIN HOUSE (SEPARATED FROM GARAGE & SHED):
    - » CANTILEVER FOUNDATIONS AT GRID 6 FOR GENERAL CONFORMANCE FOR DESIGN INCLUDING REBAR, PILE LOCATIONS, AND GENERAL WIDTHS AND DEPTHS VERIFICATION OF WALL AND FOOTING.
    - » SIMPSON CBH HARDWARE INSTANCES.
    - » PRIOR FLOOR SHEATHING, REVIEW OF MAIN GIRDERS (GLULAM AND WIDE FLANGE BEAMS) AT LEVEL 2 AND ROOF FRAMING, OF HARDWARE TO JOISTS OR COLUMNS.
- » REVIEW OF TESTING AND INSPECTION REPORTS.
- » REPORTS SHALL BE PREPARED FOR EACH SITE VISIT AND SHALL BE DISTRIBUTED TO ARCHITECT.

GENERAL CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL INSPECTION REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.



ABBREVIATION LIST			
⊙	AT	HDR	HEADER
A.B.	ANCHOR BOLT	HGR	HANGER
ADD'L	ADDITIONAL	HORIZ.	HORIZONTAL
A.F.F.	ABOVE FINISH FLOOR	HSS	HOLLOW STRUCTURAL SECTION
ALT.	ALTERNATE	HT	HEIGHT
ARCH.	ARCHITECTURAL	INT.	INTERIOR
BLD'G	BUILDING	JST	JOIST
BLK'G	BLOCKING	JT	JOINT
BM	BEAM	L	ANGLE
B.O.F.	BOTTOM OF FOOTING	L.F.R.S.	LATERAL FORCE-RESISTING SYSTEM
BOT.	BOTTOM	L.L.	LIVE LOAD
BRB	BUCKLING RESTRAINED BRACE	LLH	LONG LEG HORIZONTAL
BRG	BEARING	LLV	LONG LEG VERTICAL
BTWN	BETWEEN	LOC.	LOCATION
B.U.	BUILT UP	LSL	LAMINATED STRAND LUMBER
(C= )	CAMBER	LVL	LAMINATED VENEER LUMBER
CANT.	CANTILEVER	MAX.	MAXIMUM
CFG	COLD-FORMED STEEL	M.B.	MACHINE BOLT
C.J.	CONTROL/CONSTRUCTION JOINT	MECH.	MECHANICAL
℄	CENTERLINE	MEZZ.	MEZZANINE
CLR.	CLEARANCE	MFR	MANUFACTURER
CMU	CONCRETE MASONRY UNIT	MIN.	MINIMUM
COL.	COLUMN	MISC.	MISCELLANEOUS
CONC.	CONCRETE	MTL	METAL
CONN.	CONNECTION	N.F.	NEAR FACE
CONST.	CONSTRUCTION	N.S.	NEAR SIDE
CONT.	CONTINUOUS	NTS	NOT TO SCALE
CONTR.	CONTRACTOR	O.G.	ON CENTER
COORD.	COORDINATE	OPNG	OPENING
C.P.	COMPLETE PENETRATION	OPP.	OPPOSITE
CTR'D	CENTERED	P.A.F.	POWDER ACTUATED FASTENER
C.Y.	CUBIC YARD	PERP.	PERPENDICULAR
DBL.	DOUBLE	℄	PLATE
DCW	DEMAND CRITICAL WELD	P.P.	PARTIAL PENETRATION
D.F.	DOUGLAS FIR	P.P.T.	PRESERVATIVE PRESSURE TREATED
DIA. OR ∅	DIAMETER	P.S.F.	POUNDS PER SQUARE FOOT
DIAG.	DIAGONAL	PSL	PARALLAM
DIM.	DIMENSION	P.T.	POST TENSION
D.L.	DEAD LOAD	PW	PLYWOOD
DWG	DRAWING	REINF.	REINFORCEMENT
DWL	DOWEL	REQ'D	REQUIRED
(E)	EXISTING	SCHED.	SCHEDULE
EA.	EACH	SCL	STRUCTURAL COMPOSITE LUMBER
E.F.	EACH FACE	SHT'G	SHEATHING
EL.	ELEVATION	SIM.	SIMILAR
ELEV.	ELEVATOR	S.O.G.	SLAB ON GRADE
ENGR	ENGINEER	SQ.	SQUARE
EQ.	EQUAL	STD	STANDARD
E.W.	EACH WAY	STIFF.	STIFFENER
EXP.	EXPANSION	STL	STEEL
EXT.	EXTERIOR	STRUCT.	STRUCTURAL
FDN	FOUNDATION	T&B	TOP & BOTTOM
F.F.	FAR FACE	T&G	TONGUE AND GROOVE
FLR	FLOOR	THR'D	THREADED
F.O.M.	FACE OF MASONRY	T.O.F.	TOP OF FOOTING
F.O.S.	FACE OF STUD	T.O.S.	TOP OF STEEL
FRMG	FRAMING	TRT'D	TREATED
F.R.T.	FIRE RETARDANT TREATED	TYP.	TYPICAL
F.S.	FAR SIDE	U.N.O.	UNLESS NOTED OTHERWISE
FTG	FOOTING	U.T.	ULTRASONIC TESTED
GA.	GAGE/GAUGE	VERT.	VERTICAL
GALV.	GALVANIZED	W/	WITH
GL.	GLULAM	W.P.	WORK POINT
GR.	GRADE	WT	WEIGHT
GWB	GYPSPUM WALL BOARD	W.W.R.	WELDED WIRE REINFORCING

STAMP



**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
MERCER ISLAND, WA 98040

SUBMITTAL

**100% CONSTRUCTION DOCUMENTS**

February 24, 2023

REVISIONS

No.	Description	Date
1	BUILDING PERMIT RESUBMITTAL	10/27/22


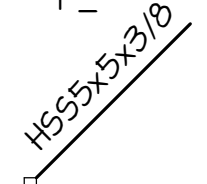
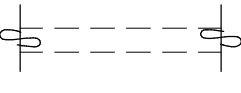
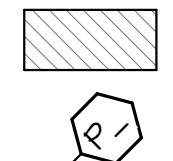

Drawn: DEH  
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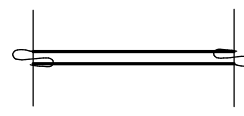
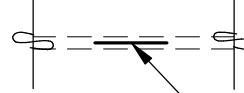

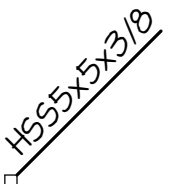


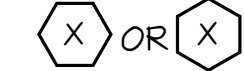
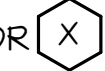
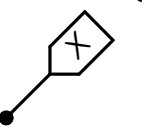
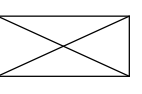
SHEET

**GENERAL NOTES S005**

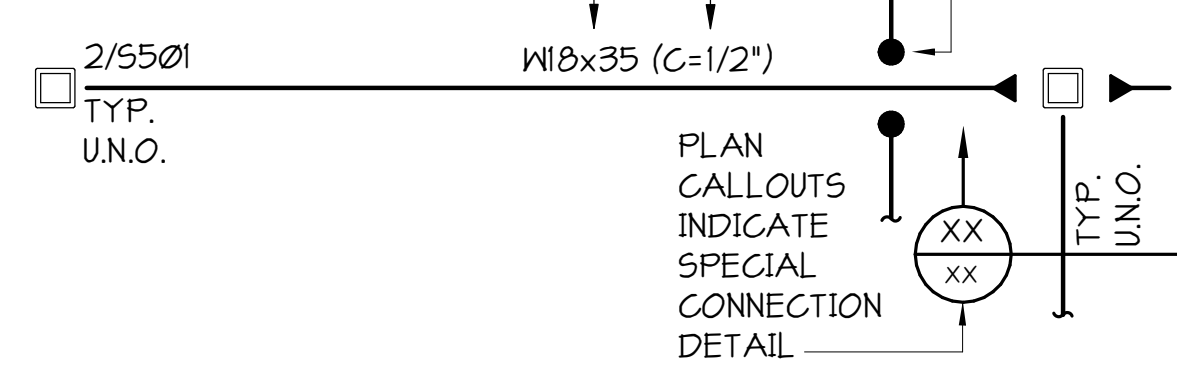
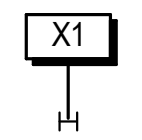
**FOUNDATION NOTES**

- COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- TOP OF SLAB = 26.00' UNLESS NOTED OTHERWISE.
- TOP OF FOOTING ELEVATIONS = 25.00' UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.
-  INDICATES 10" CONCRETE WALL UNLESS NOTED OTHERWISE.
- "F\_" INDICATES CONCRETE PILE CAPS. FOR SCHEDULE - SEE 2/5303.
-  INDICATES STEEL COLUMNS ORIGINATING AT FOUNDATION LEVEL. ALL COLUMNS ARE CONTINUOUS TO ROOF UNLESS NOTED OTHERWISE. FOR TYPICAL ANCHOR ROD/BOLT DETAIL - SEE 1/5303.
- FOR TYPICAL FOUNDATION DETAILS - SEE SHEETS 5302, 5303, AND 5304.
- FOR TYPICAL STEPS IN FOOTING, PLACEMENT OF CONCRETE WALL REINFORCEMENT, AND FOUNDATION CONSTRUCTION JOINTS - SEE DETAILS 1/5302, 4/5302, AND 1/5302.
- FOR TYPICAL CONCRETE SLAB-ON-GRADE DETAILS - SEE SHEET 5301.
-  INDICATES GRADE BEAM SUPPORTED BY 4" DIAMETER STANDARD PIPE AT 6'-0" ON CENTER UNLESS NOTED OTHERWISE. FOR GRADE BEAM SCHEDULE - SEE 1/304.
-  INDICATES DEPRESSED OR SLOPED SLABS. FOR SLOPE AND EXACT LOCATION - SEE ARCHITECTURAL DRAWINGS. SEE 5/5301 FOR TYPICAL SLAB STEP OR DEPRESSION DETAIL.
-  INDICATES STEEL PIN PILE - SEE PILE PLAN FOR PILE SCHEDULE.
- FOR HOUSEKEEPING PADS SEE MECHANICAL/ELECTRICAL. FOR TYPICAL REINFORCING DETAIL FOR PADS - SEE 1/5301.

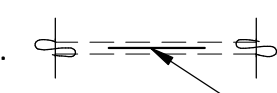


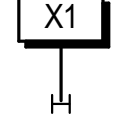
**FLOOR FRAMING NOTES**

- COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. TOP OF SHEATHING = 37.50' AT 2ND FLOOR, 40.50' AT 3RD FLOOR AND 47.36' AT ROOF DECK ABOVE GRADE UNLESS NOTED OTHERWISE.
  -  INDICATES 2x6 WOOD STUD WALL. WOOD STUDS SHOULD ALIGN WITH JOIST LAYOUT WHERE THEY SHARE THE SAME LAYOUT AND BE SPACED AT 16" ON CENTER MAXIMUM UNLESS NOTED OTHERWISE. PROVIDE 1/2" WOOD SHEATHING AT ALL EXTERIOR WALLS NAILED WITH 10d AT 6" ON CENTER AT ALL PANEL EDGES (PROVIDE 2x BLOCKING AT UNSUPPORTED PANEL EDGES) AND 10d AT 12" ON CENTER AT INTERMEDIATE FRAMING TYPICAL UNLESS NOTED OTHERWISE - SEE NOTE #9 FOR ADDITIONAL SHEAR WALL NAILING.
  -  INDICATES WALL EXTENDING TO FLOOR STRUCTURE.
  -  INDICATES TYPICAL HEADER IN WALL BELOW - SEE 1/5101.
  - "(C=)" INDICATES CAMBER FOR GLULAM BEAMS. C=0" UNLESS NOTED OTHERWISE.
  -  INDICATES HOLLOW STRUCTURAL SECTION COLUMNS ORIGINATING AT FLOOR LEVEL.
  -  INDICATES TYPE OF CONTINUOUS COLUMN FROM LEVEL BELOW AND CONTINUOUS ON TO LEVEL ABOVE.
  -  INDICATES WOOD STUD BUILT-UP COLUMN - SEE 2/5101 FOR TYPICAL DETAIL.
  - [ ] INDICATES SPECIAL BUILT-UP WOOD STUD COLUMN REQUIREMENTS UNDER HEADER. FOR TYPICAL FRAMING REQUIREMENTS AT OPENING IN STRUCTURAL WALLS - SEE 1/5101 FOR TYPICAL DETAIL.
  -  OR  INDICATES SPECIAL WOOD STUD WALL TYPE - SEE 4/5101 FOR SCHEDULE.
  -  INDICATES HOLDDOWN - SEE 1/5103 FOR SCHEDULE.
  -  INDICATES PENETRATION IN FLOOR STRUCTURE.
  - PROVIDE 3/4" TONGUE AND GROOVE WOOD OR 1-1/8" WARMBOARD SHEATHING OVER ENTIRE FLOOR STRUCTURE. NAIL WOOD FLOOR SHEATHING WITH 10d AT 6" ON CENTER AT ALL SUPPORTED PANEL EDGES AND 10d AT 10" ON CENTER AT INTERMEDIATE FRAMING. TYPICAL UNLESS NOTED OTHERWISE. NAIL PER 3/5101.
  - FOR SUPPORT OF MISCELLANEOUS MECHANICAL EQUIPMENT AND PIPES FROM FLOOR STRUCTURE - SEE 1/5104.
  - FOR TYPICAL STEEL CONNECTION DETAILS - SEE SHEET 5501.
- INDICATES BEAM/GIRDER CAMBER IN INCHES

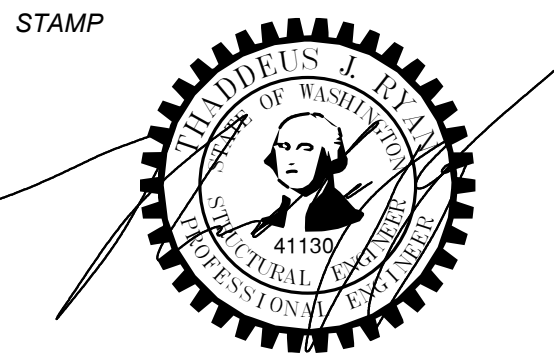
INDICATES BEAM/GIRDER SIZE

INDICATES A LATERAL CONNECTION. FOR DETAIL CALLOUT - SEE PLANS. ASSOCIATED MEMBERS AND CONNECTIONS ARE PART OF THE LATERAL FORCE-RESISTING SYSTEM.
- 
- PLAN CALLOUTS INDICATE SPECIAL CONNECTION DETAIL
- SEE MECHANICAL FOR OPENINGS IN FLOOR AND PROVIDE FRAMING AROUND OPENINGS PER 3/5101. SEE ARCHITECTURAL FOR ADDITIONAL INFORMATION INCLUDING PERIMETER WALL FRAMING.
  -  INDICATES ALLOWABLE PENETRATION THROUGH FLOOR FRAMING PER DETAIL 8/5101. ADDITIONAL LOCATIONS TO BE COORDINATED BY GENERAL CONTRACTOR. CONFIRM SIZE AND LOCATIONS OF I-JOIST PENETRATIONS WITH I-JOIST MANUFACTURER.

**ROOF FRAMING NOTES**

- COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
-  INDICATES WALL EXTENDING TO ROOF STRUCTURE.
-  INDICATES TYPICAL HEADER IN WALL BELOW - SEE 1/5101.
-  INDICATES PENETRATION IN ROOF STRUCTURE.
- "(C=)" INDICATES CAMBER FOR GLULAM BEAMS. C=0" UNLESS NOTED OTHERWISE.
- PROVIDE 3/4" TONGUE AND GROOVE WOOD SHEATHING OVER ENTIRE ROOF STRUCTURE. NAIL SHEATHING WITH 10d AT 6" ON CENTER AT ALL SUPPORTED PANEL EDGES AND 10d AT 10" ON CENTER AT INTERMEDIATE FRAMING. TYPICAL UNLESS NOTED OTHERWISE.
-  INDICATES ALLOWABLE PENETRATION THROUGH FLOOR FRAMING PER DETAIL 8/5101. ADDITIONAL LOCATIONS TO BE COORDINATED BY GENERAL CONTRACTOR. CONFIRM SIZE AND LOCATIONS OF I-JOIST PENETRATIONS WITH I-JOIST MANUFACTURER.

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**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
MERCER ISLAND, WA 98040

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**100% CONSTRUCTION DOCUMENTS**

February 24, 2023

REVISIONS

No.	Description	Date

Drawn: DEH  
Checked: TJR  
MJH Proj No.: A20.0085.00

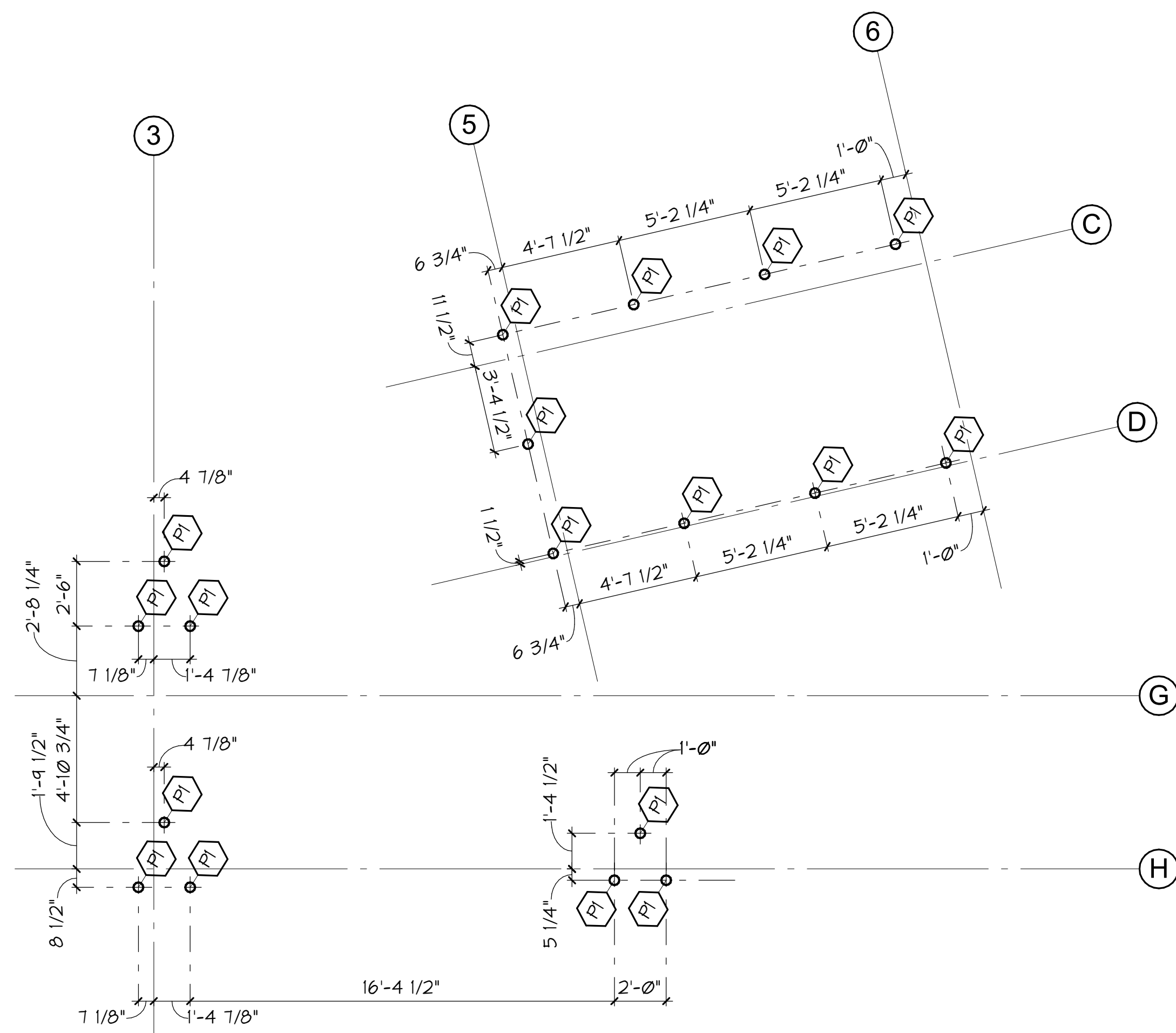
Issue Date: February 24, 2023

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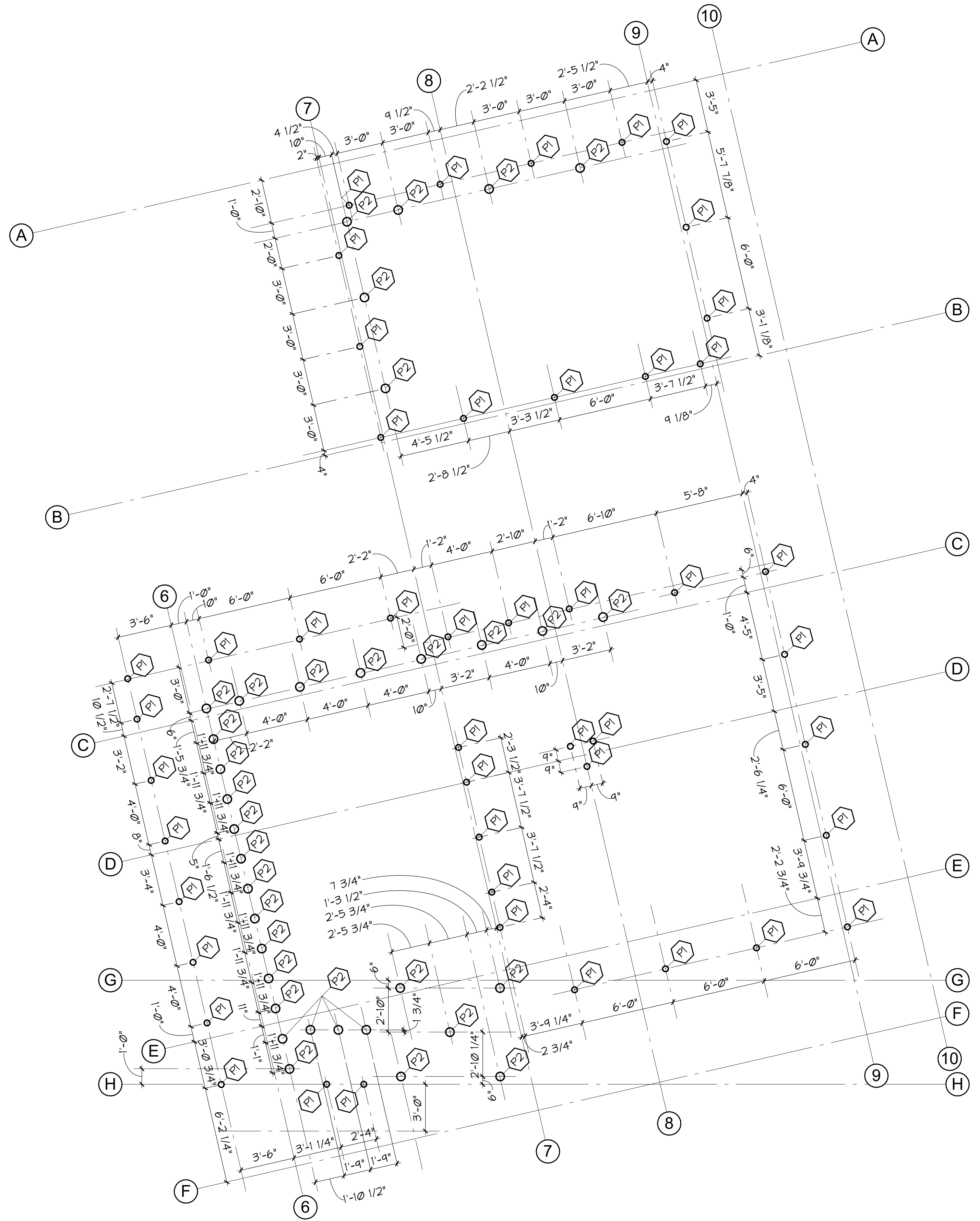


PILE SCHEDULE		
MARK	SIZE	EMBEDMENT DEPTH
(P1)	PIPE45TD	NOTE 3
(P2)	PIPE65TD	NOTE 3

- NOTES:
- SITE RETAINING WALL PILES NOT SHOWN ON PLAN.
  - SEE S151 AND CIVIL DRAWINGS FOR SITE WALL EXTENTS AND 6/5304 FOR STRUCTURAL DETAILS AND PILE LAYOUT.
  - EMBED A MIN. OF 3 FT INTO THE PRE-OLYMPIA NONGLACIAL DEPOSITS OR MIN. DEPTH NEEDED TO ACHIEVE THE ACCEPTANCE CRITERIA, WHICHEVER IS DEEPER.



2 LEVEL 2 - FOUNDATION PILE PLAN  
S111a 1/4" = 1'-0"



1 LEVEL 1 - FOUNDATION PILE PLAN  
S111a 1/4" = 1'-0"

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**MERCER ISLAND HOUSE: CASCADE**

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February 24, 2023

No.	Description	Date
1	BUILDING PERMIT RESUBMITTAL	10/27/22

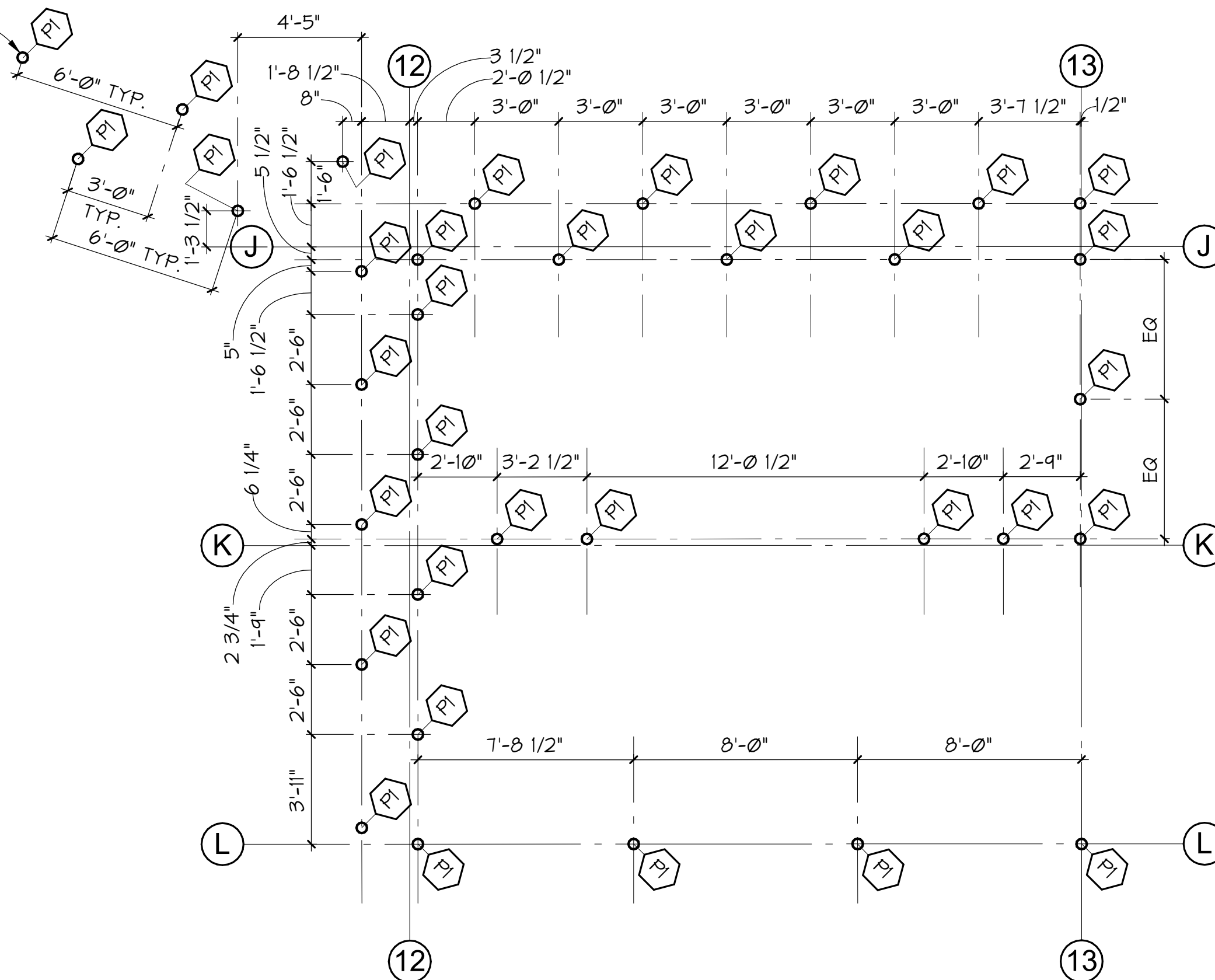
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Issue Date: February 24, 2023

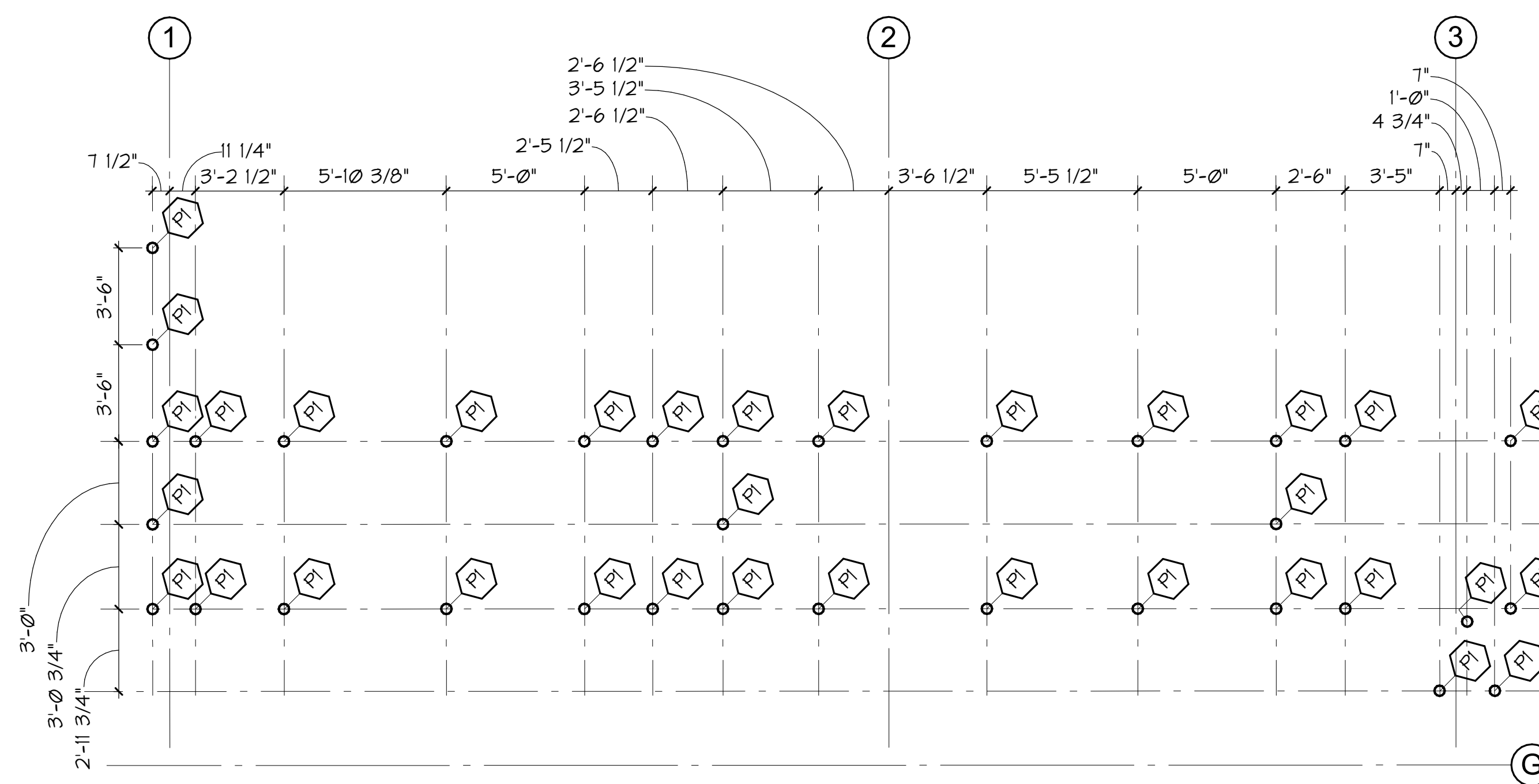
SHEET

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SITE RETAINING WALL PILE -  
 SEE CIVIL AND 6/5304 FOR  
 WALL EXTENTS - TYP.



**1 GARAGE - FOUNDATION PILE PLAN**  
 S111b 1/4" = 1'-0"



**2 COVERED WALKWAY - FOUNDATION PILE PLAN**  
 S111b 1/4" = 1'-0"

**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

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February 24, 2023

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No.	Description	Date

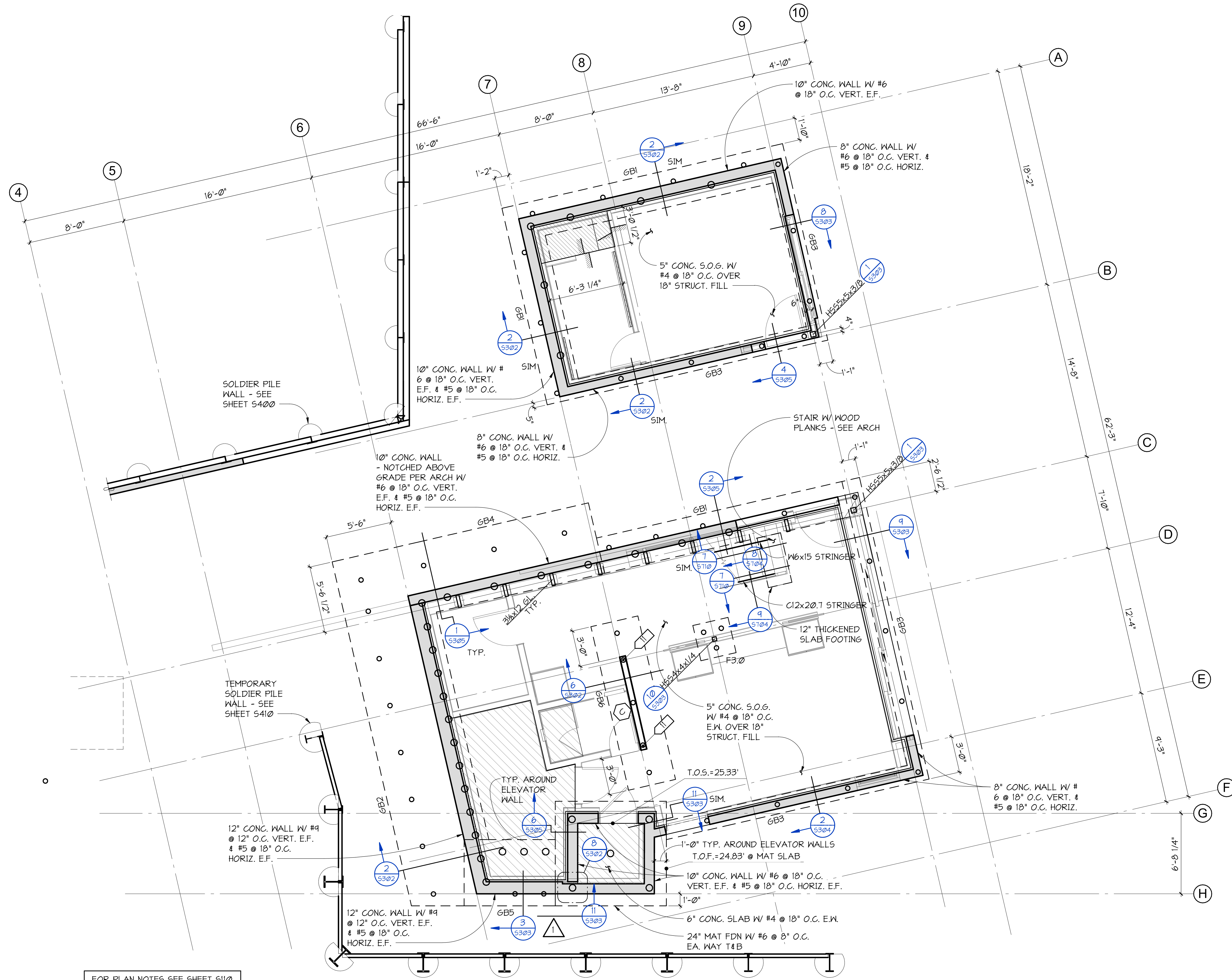
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Issue Date: February 24, 2023

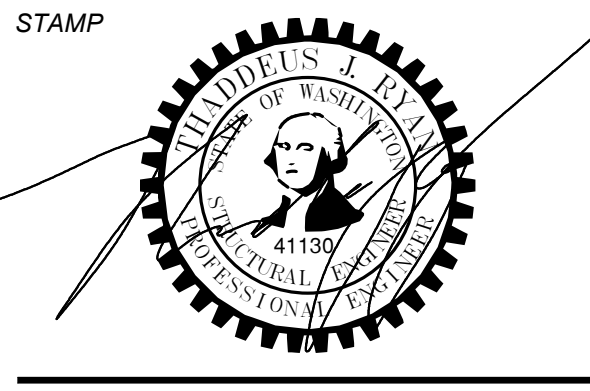
SHEET

**PILE PLAN  
 S111b**

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FOR PLAN NOTES SEE SHEET 5110  
**LEVEL 1 - FOUNDATION PLAN**  
 1/4" = 1'-0"



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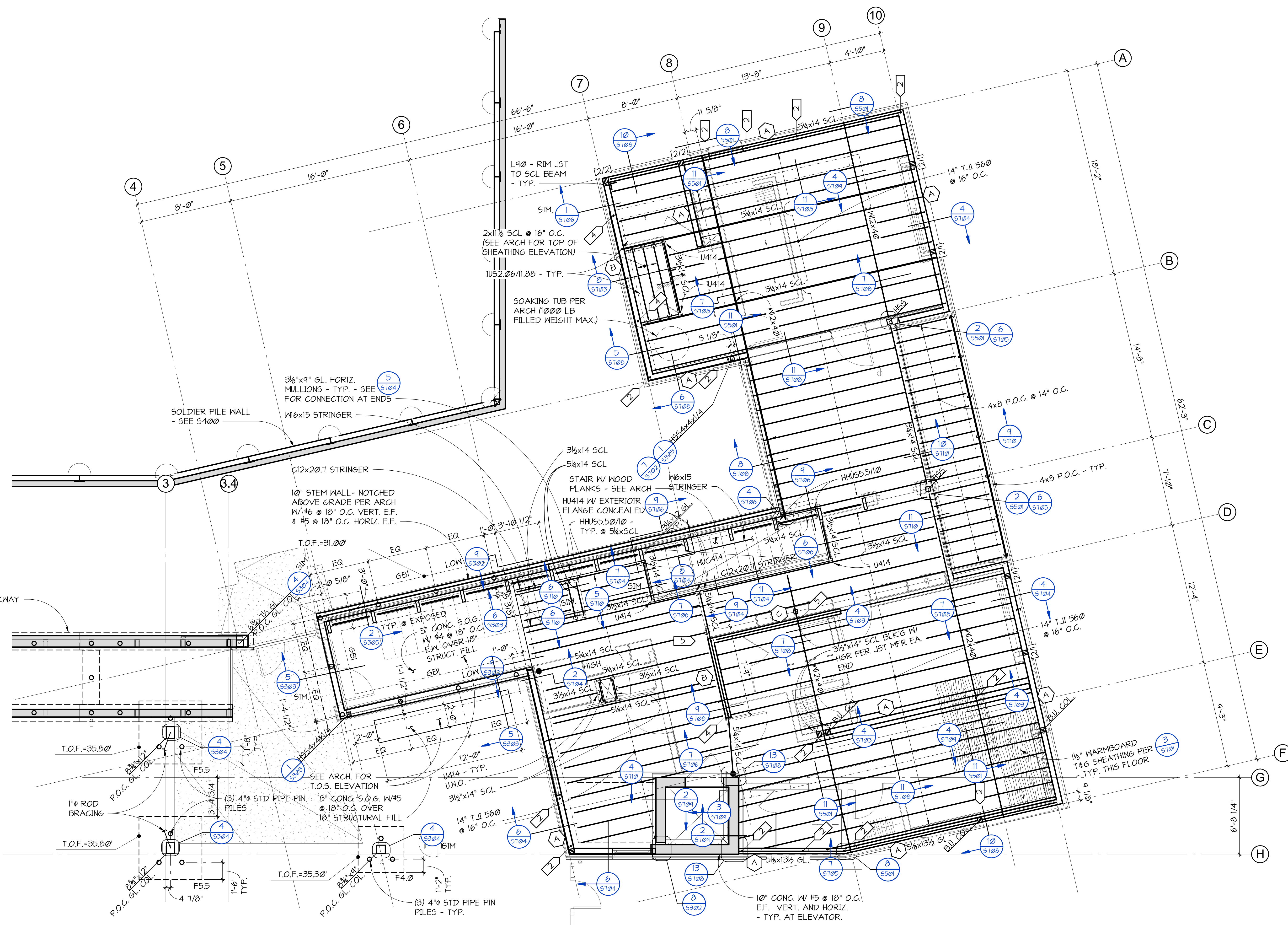
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1	BUILDING PERMIT RESUBMITTAL	10/27/22

Drawn: DEH  
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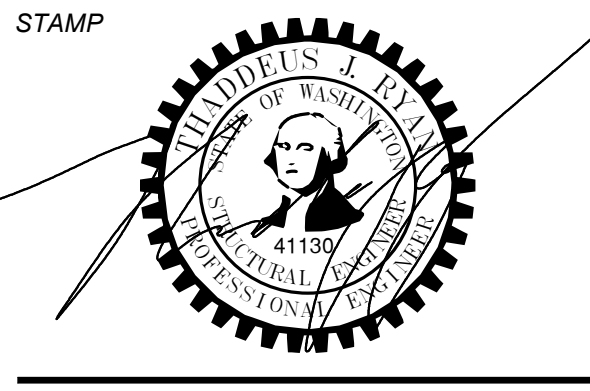
SHEET

**LEVEL 1 - FOUNDATION PLAN S112**

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FOR PLAN NOTES SEE SHEET S110  
**LEVEL 2 - FLOOR FRAMING PLAN**  
1/4" = 1'-0"



**MERCER ISLAND HOUSE: CASCADE**

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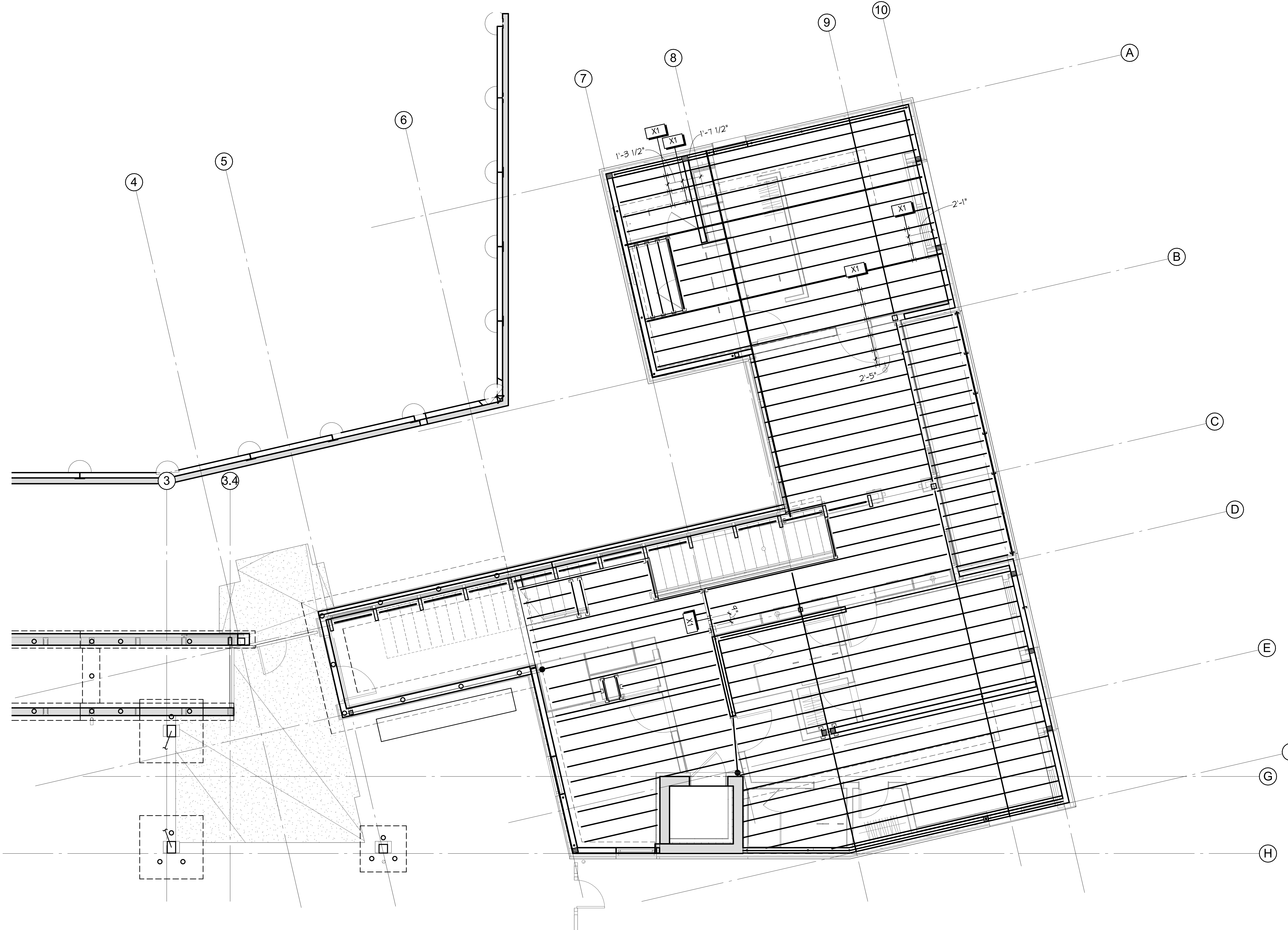
February 24, 2023

REVISIONS	No.	Description	Date

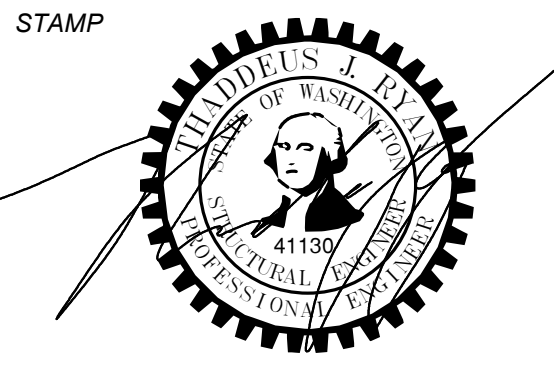
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**LEVEL 2 - FLOOR FRAMING PLAN**  
**S121**

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1 LEVEL 2 - FLOOR FRAMING PENETRATION PLAN  
S121P 1/4" = 1'-0"



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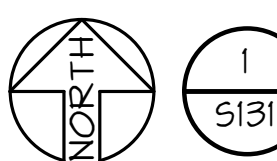
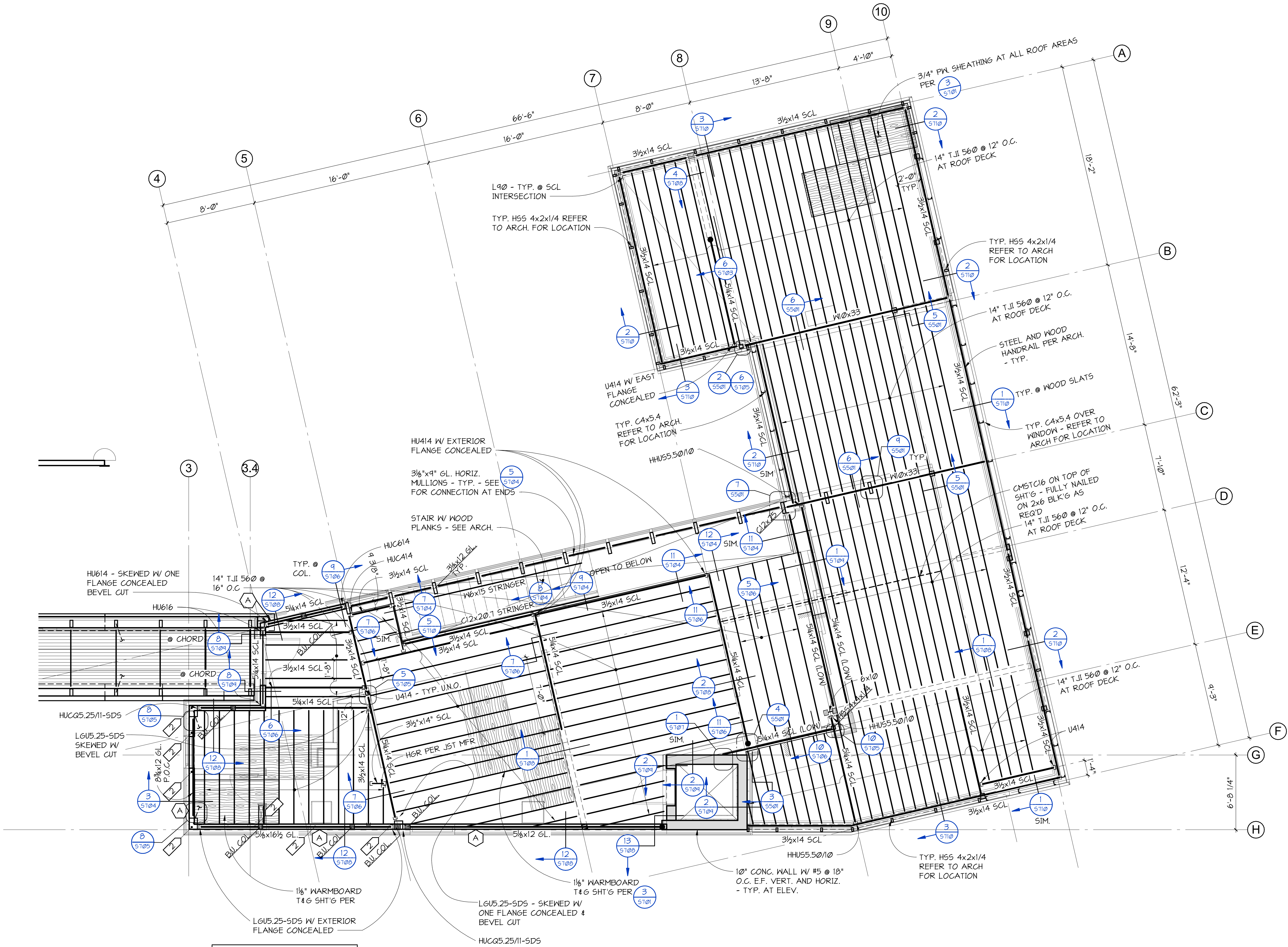
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No.	Description	Date

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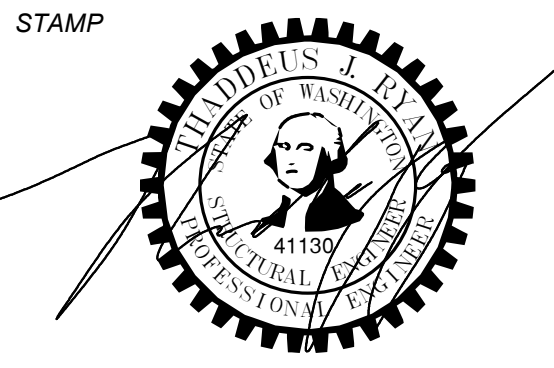
**SHEET**  
**LEVEL 2 - FLOOR FRAMING PENETRATION PLAN**  
**S121P**

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FOR PLAN NOTES SEE SHEET S110  
**LEVEL 3 - FLOOR FRAMING PLAN**

1/4" = 1'-0"



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No.	Description	Date

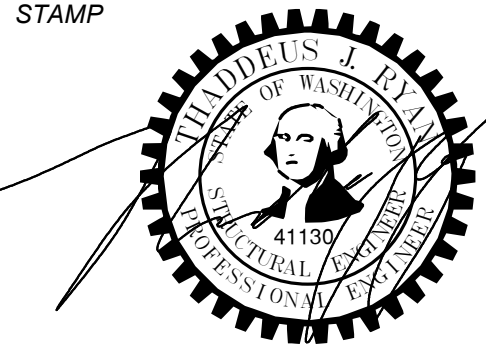
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SHEET

**LEVEL 3 - FLOOR FRAMING PLAN S131**

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 MERCER ISLAND, WA 98040

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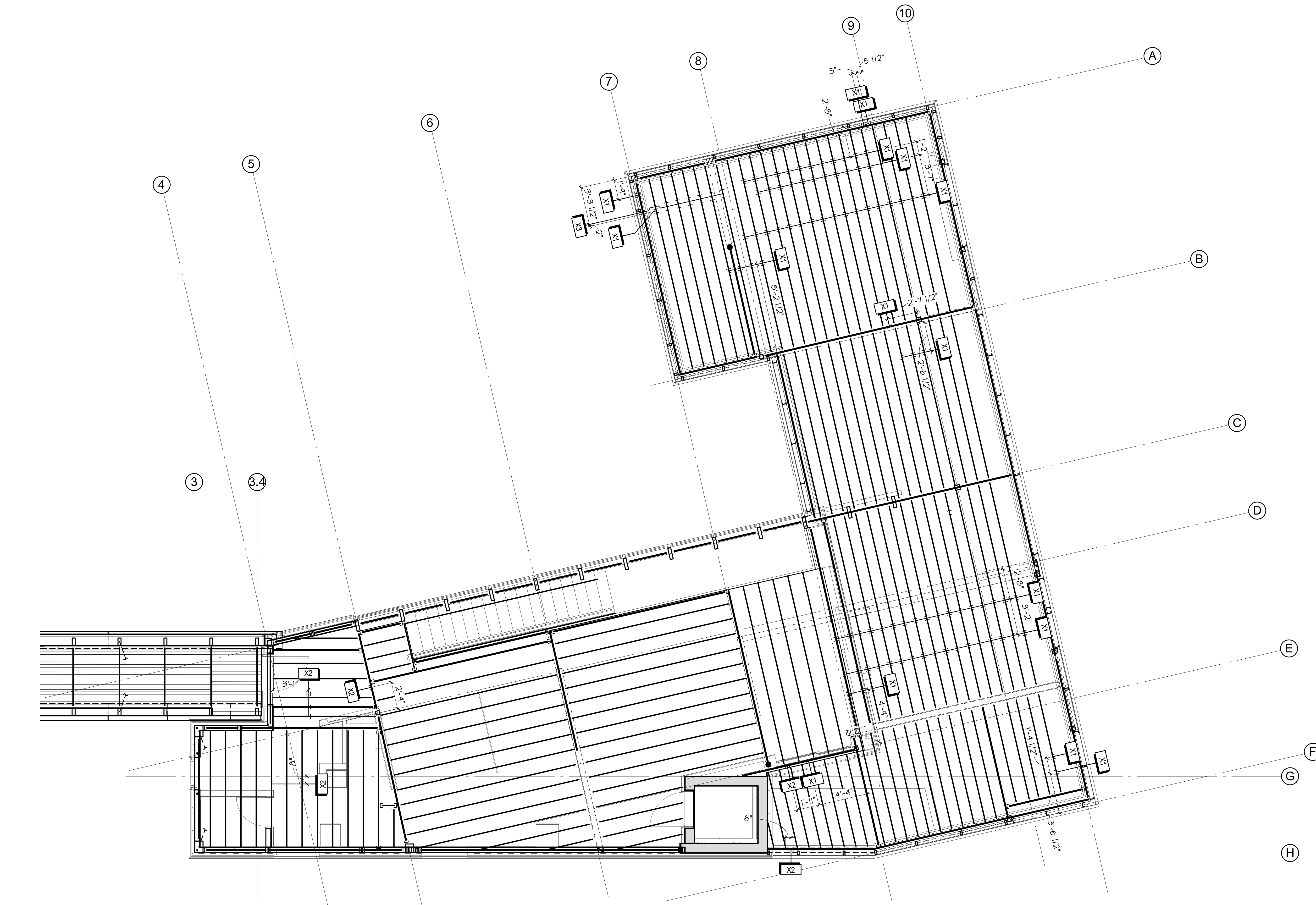
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No.	Description	Date

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 Issue Date: February 24, 2023

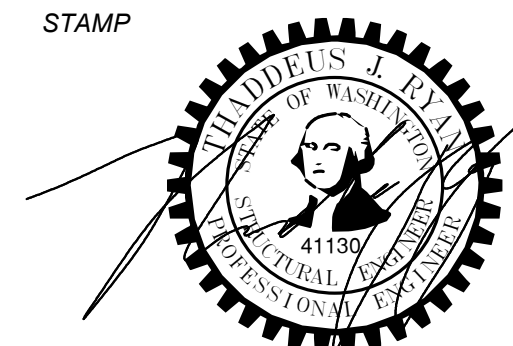
**LEVEL 3 - FLOOR FRAMING PENETRATION PLAN**  
**S131P**



**LEVEL 3 - FLOOR FRAMING PENETRATION PLAN**  
 S131P 1/4" = 1'-0"

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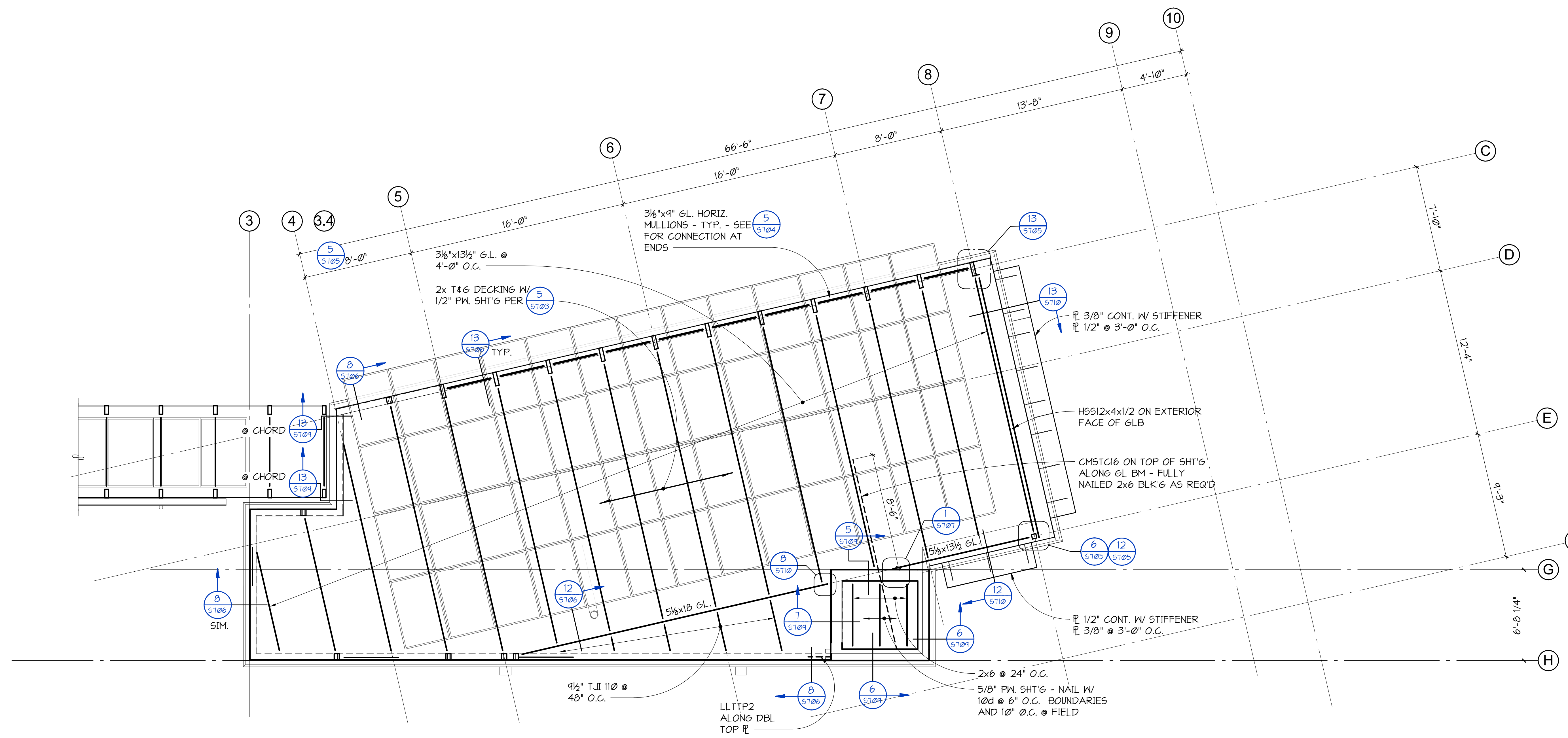
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 Checked: TJR  
 MJH Proj No.: A20.0085.00

Issue Date: February 24, 2023

SHEET

**ROOF - FRAMING PLAN**  
**S141**

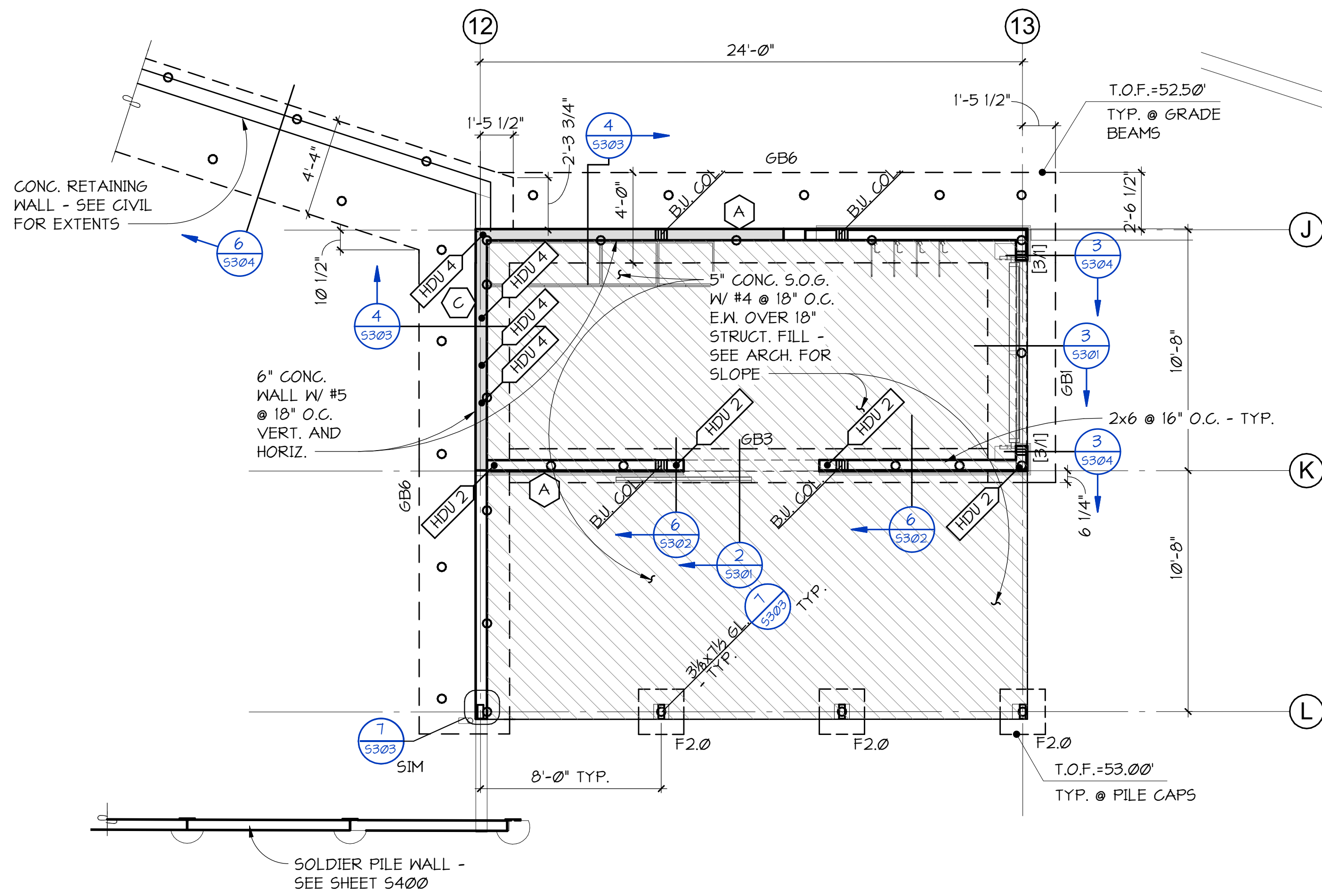
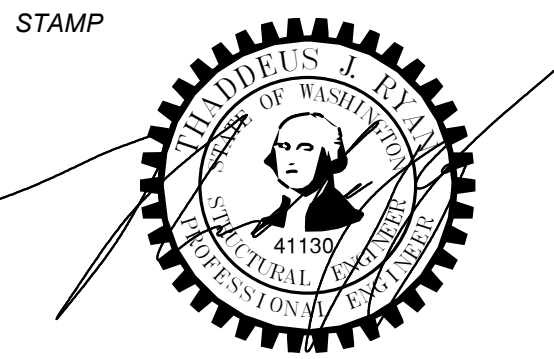


FOR PLAN NOTES SEE SHEET S110

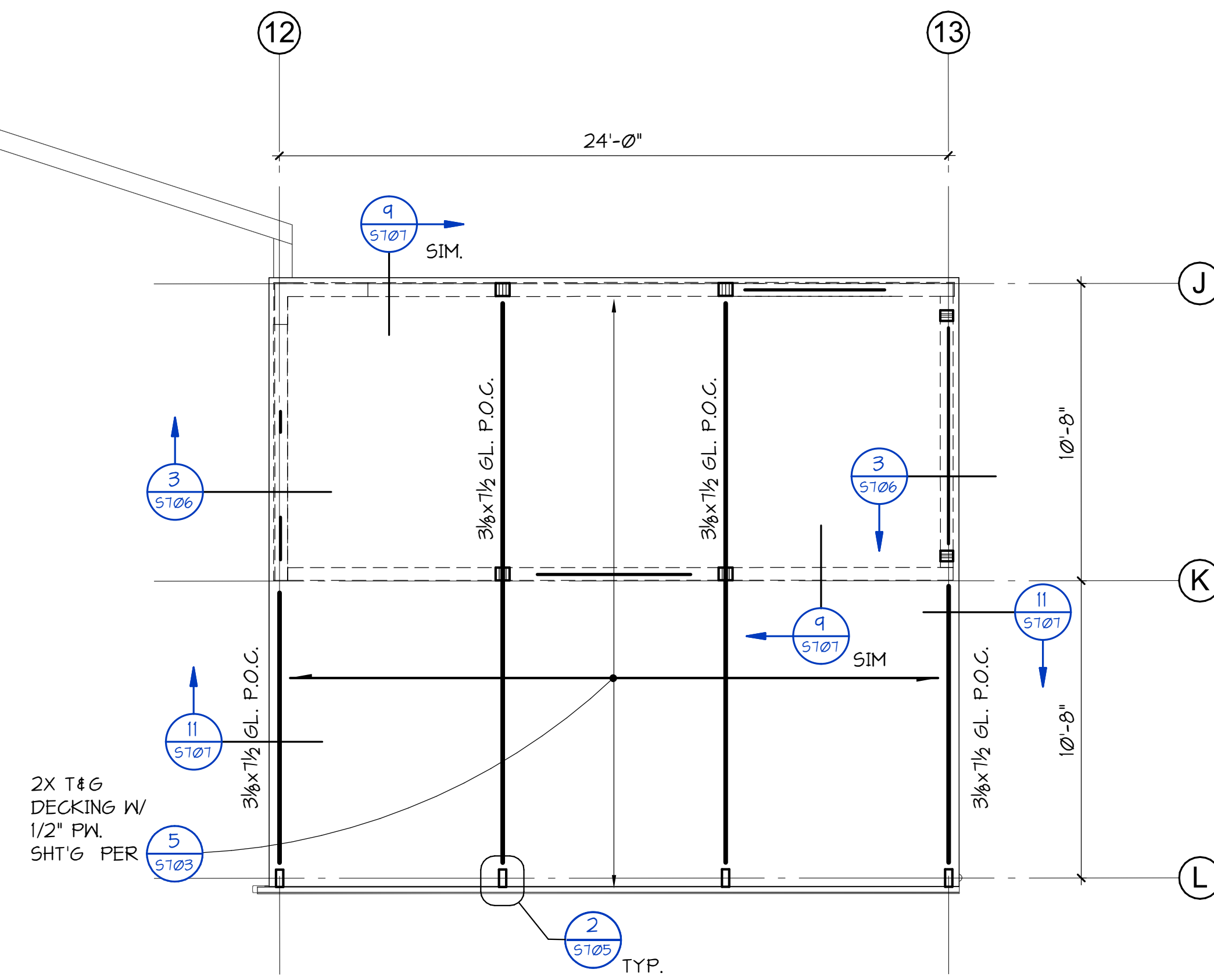
**1 ROOF - FRAMING PLAN**  
 5141 1/4" = 1'-0"

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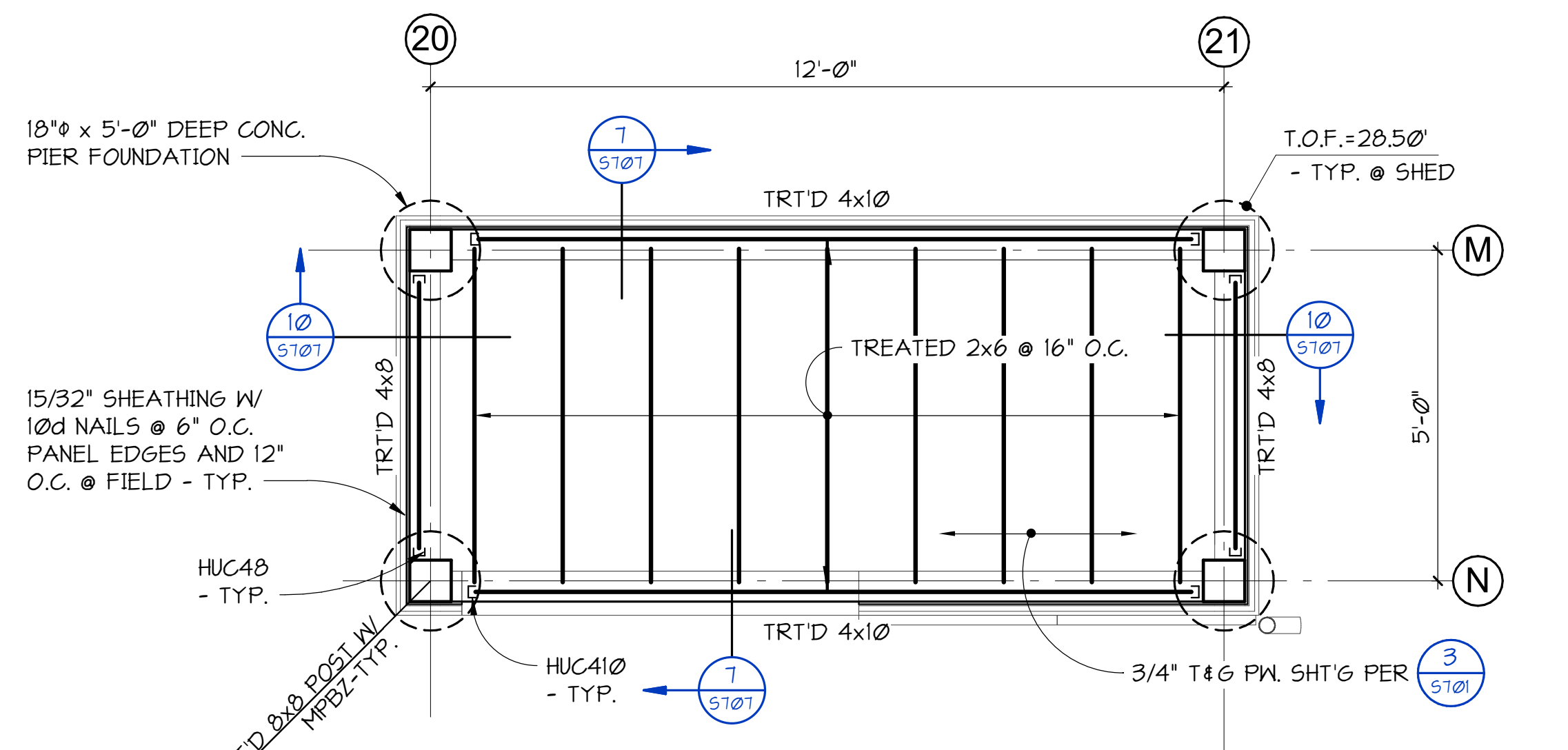




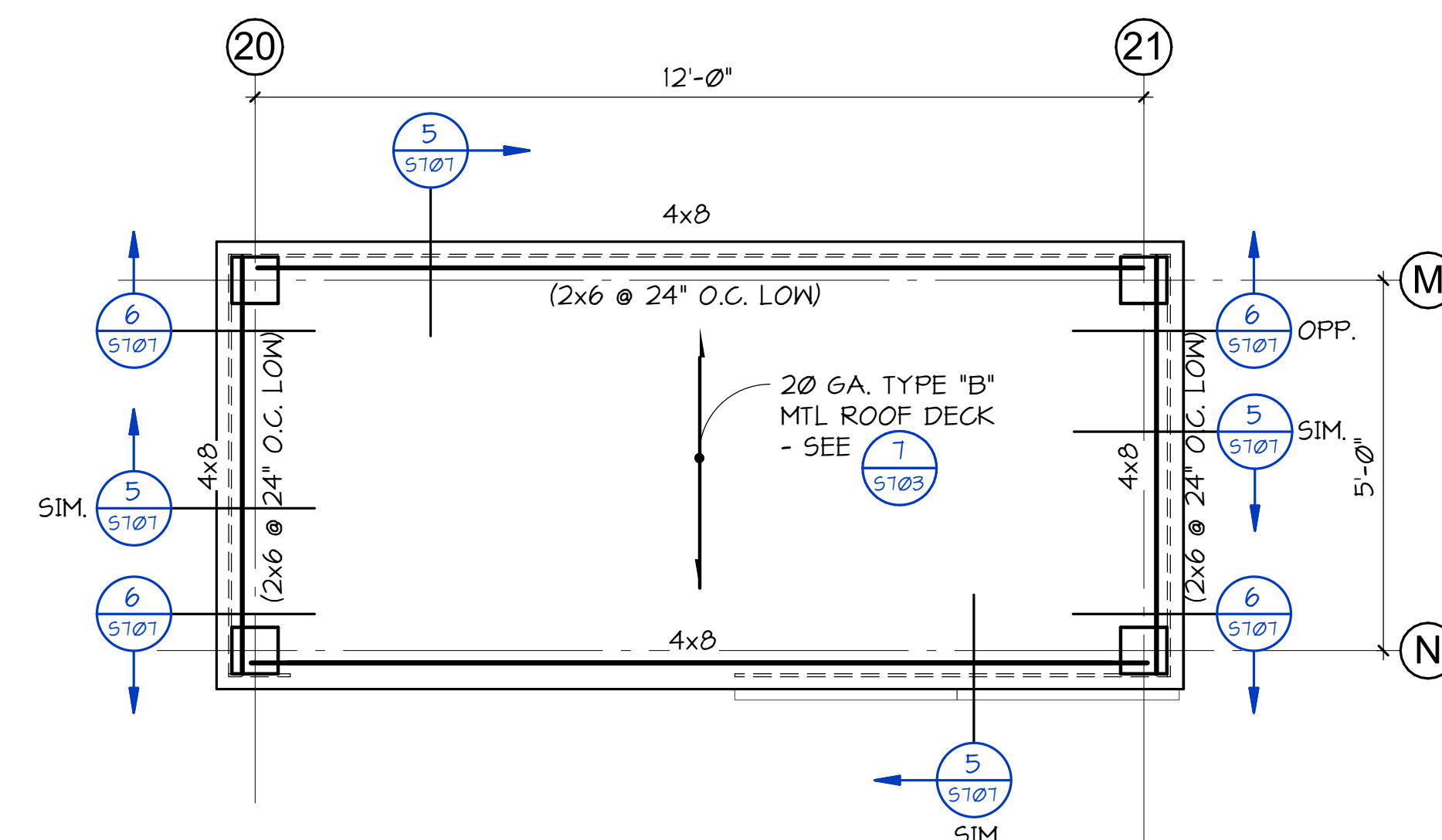
**1 GARAGE - FOUNDATION PLAN**  
 S151 1/4" = 1'-0"



**2 GARAGE - ROOF FRAMING PLAN**  
 S151 1/4" = 1'-0"



**3 SHED - FOUNDATION PLAN**  
 S151 1/2" = 1'-0"



**4 SHED - ROOF FRAMING PLAN**  
 S151 1/2" = 1'-0"

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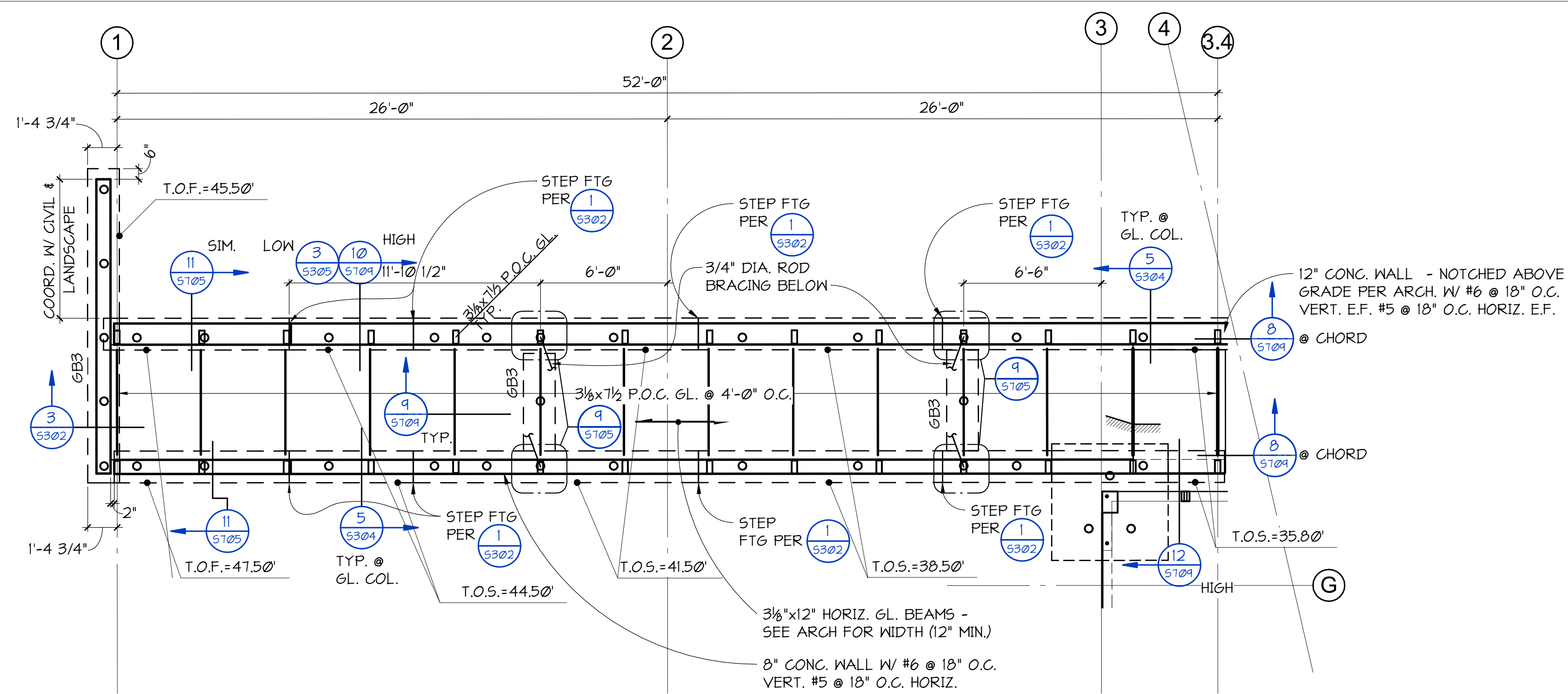
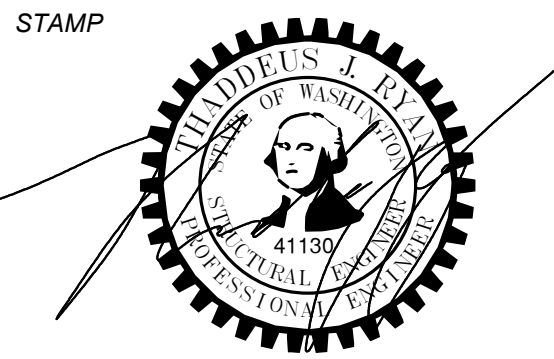
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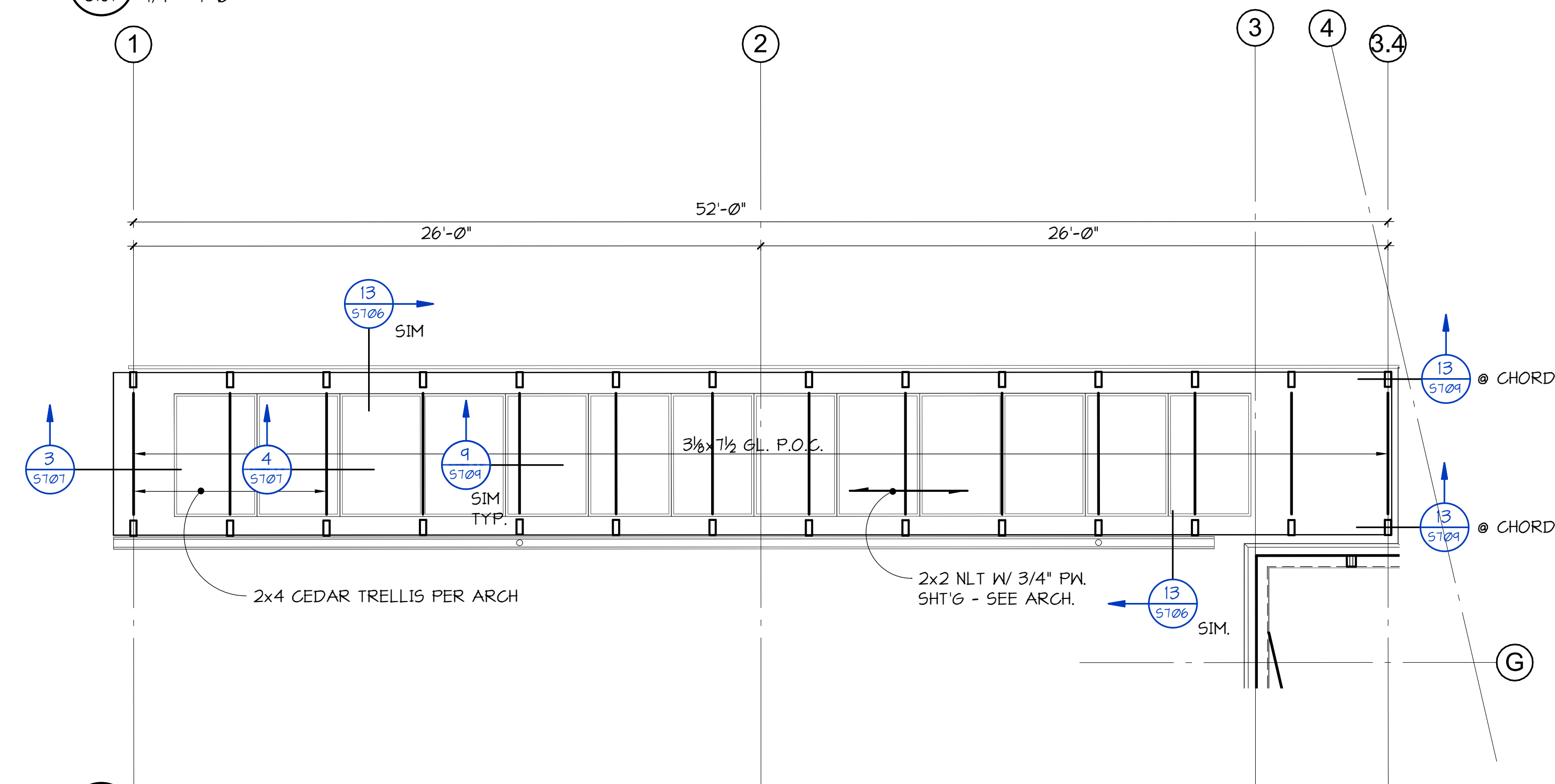
Issue Date: February 24, 2023

SHEET

**GARAGE AND SHED PLANS**  
**S151**



**1 COVERED WALKWAY - FOUNDATION AND FLOOR FRAMING PLAN**  
 1/4" = 1'-0"



**2 COVERED WALKWAY - ROOF PLAN**  
 1/4" = 1'-0"

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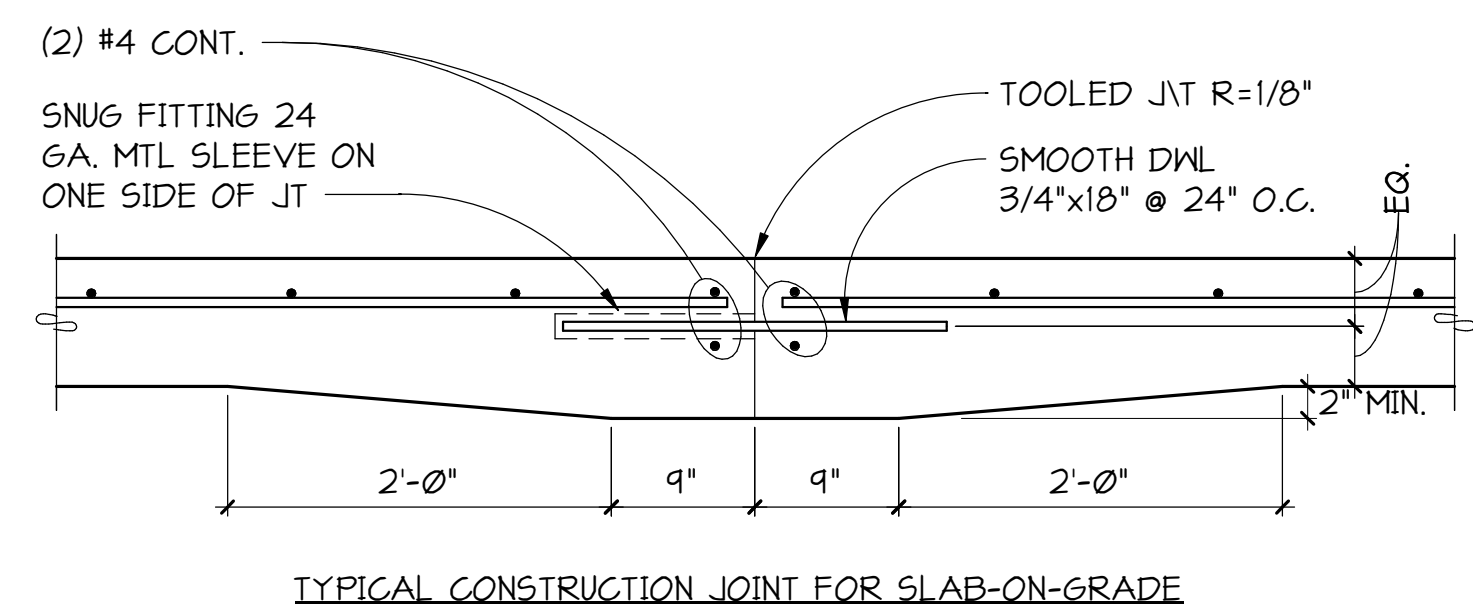
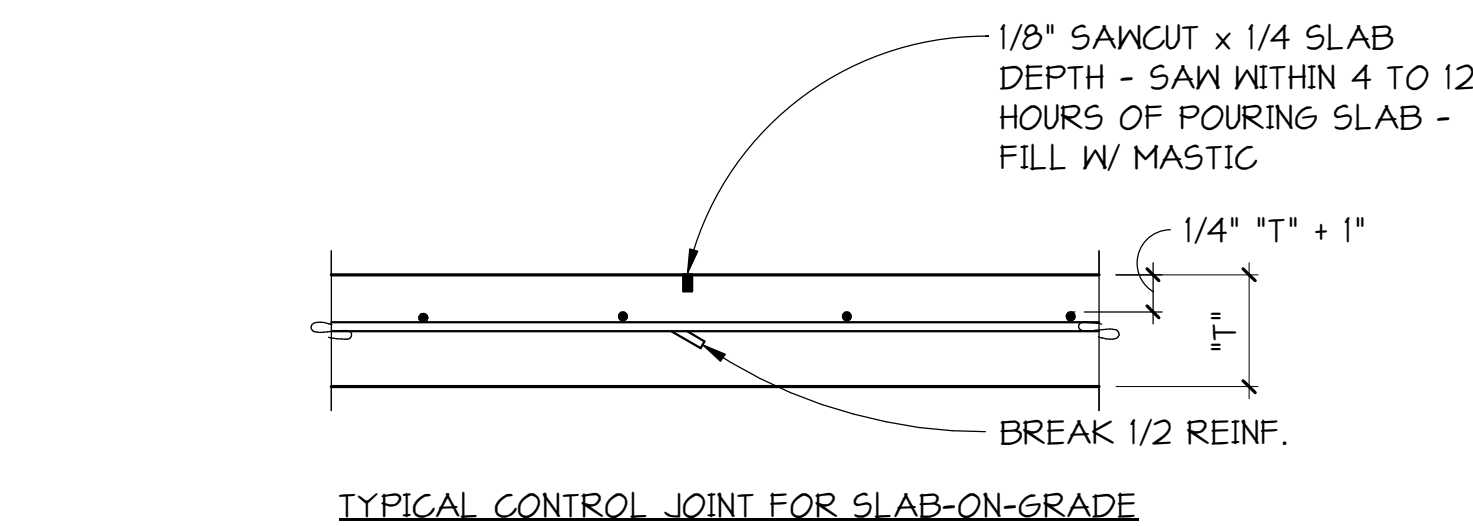
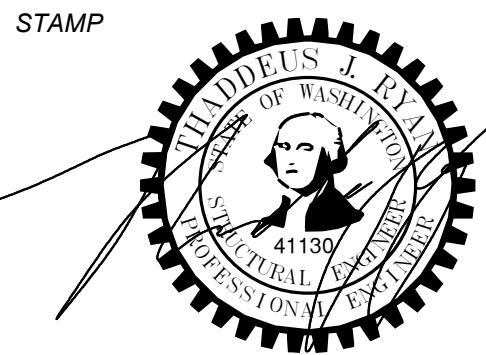
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No.	Description	Date

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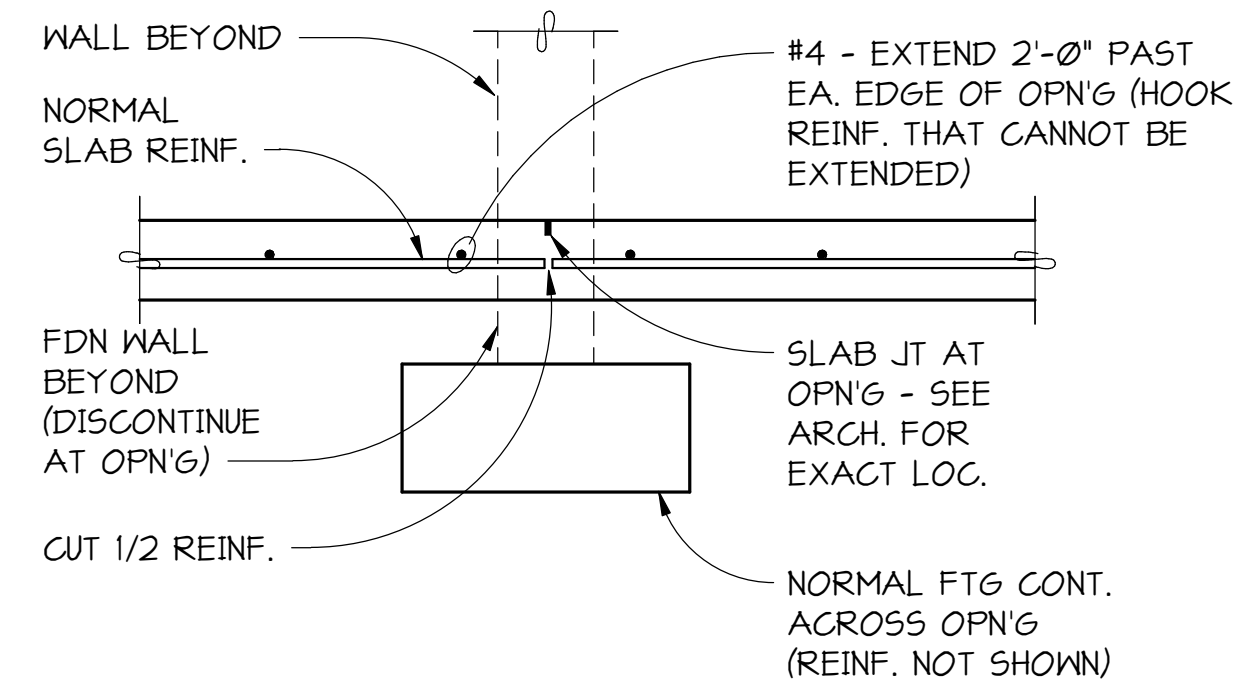
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**COVERED WALKWAY PLANS S161**

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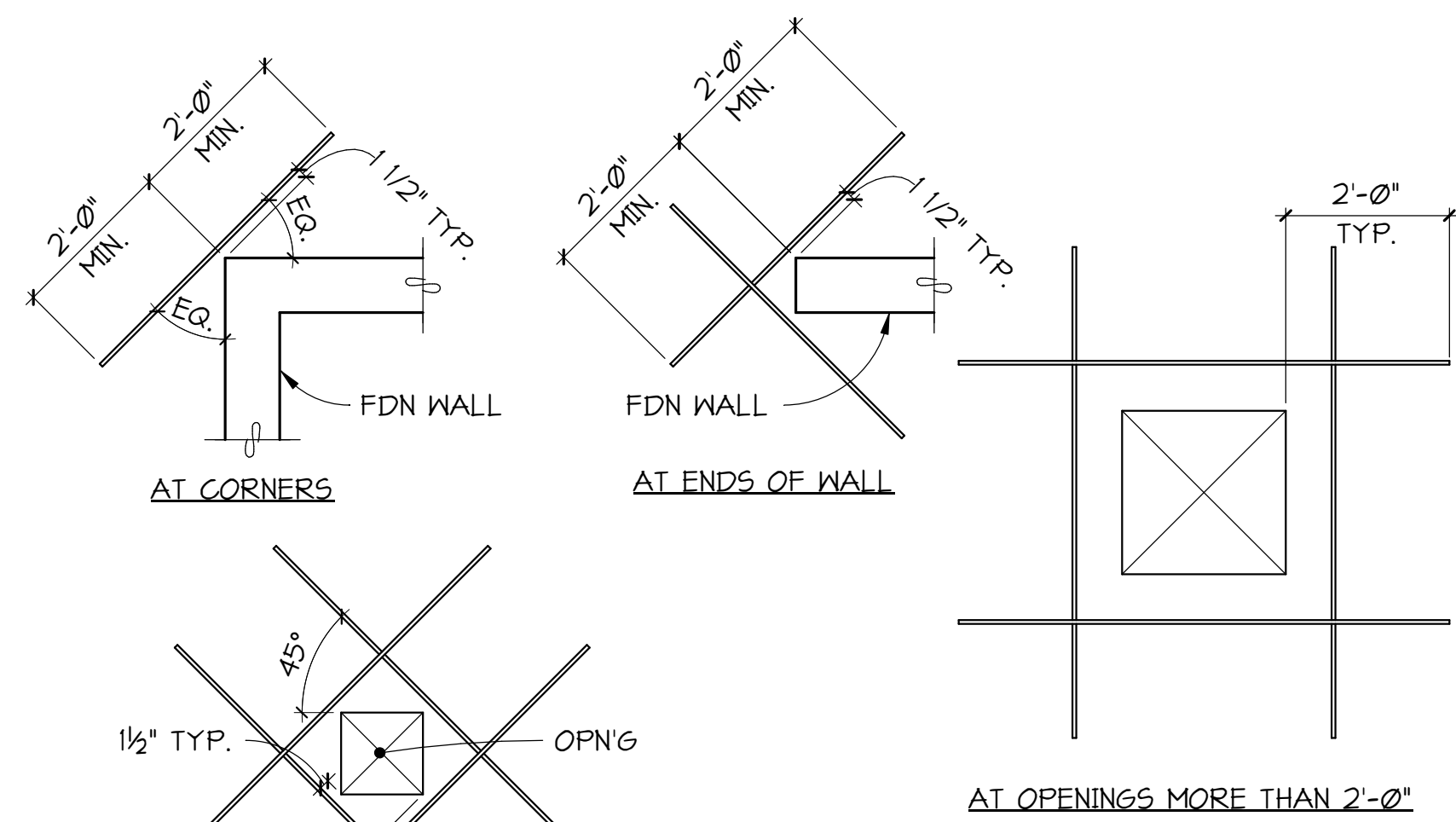


1 SECTION  
 5301 NO SCALE



2 SECTION  
 5301 NO SCALE

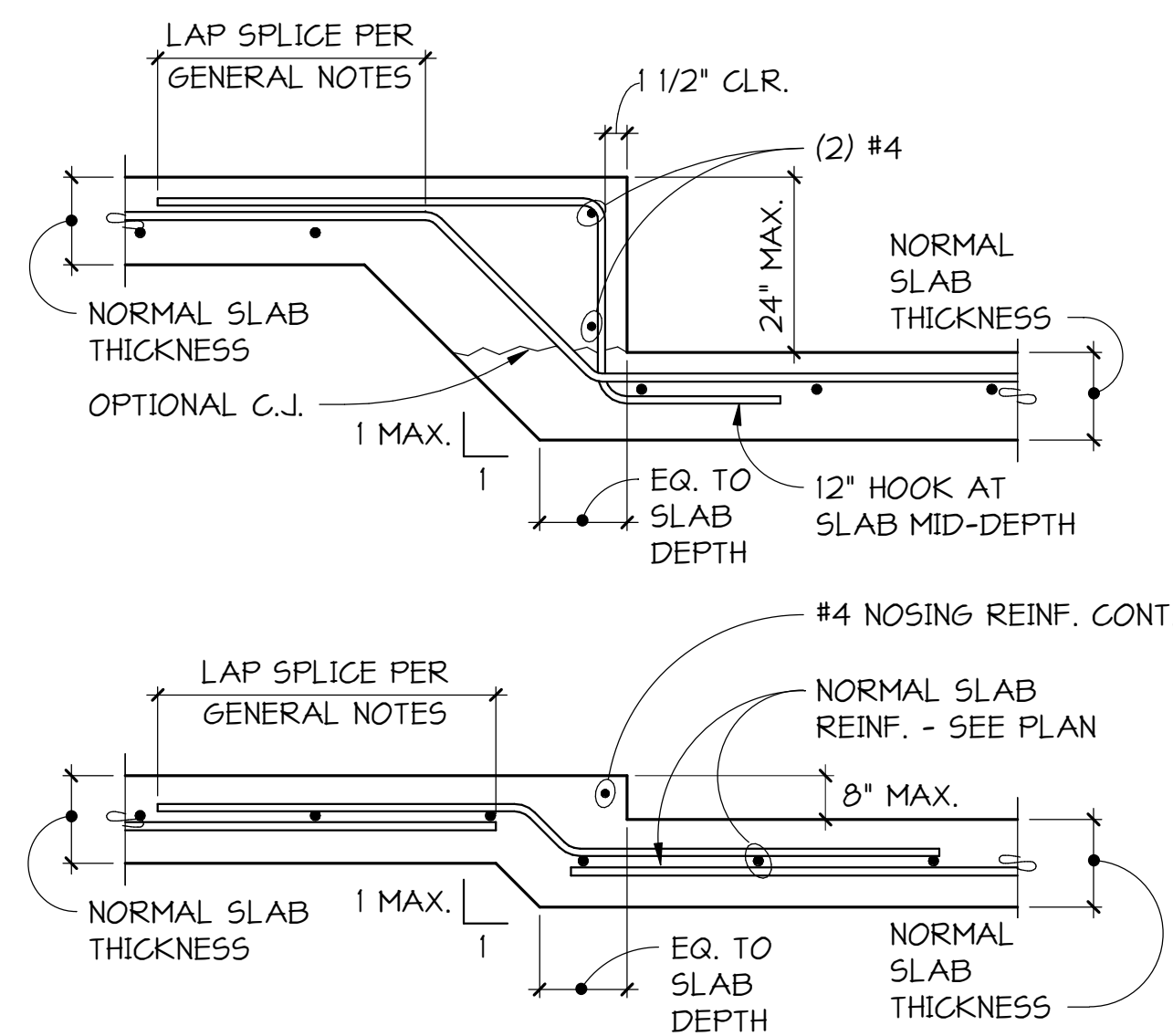
3 SECTION  
 5301 NO SCALE



TYPICAL SLAB-ON-GRADE DISCONTINUITY REINFORCEMENT

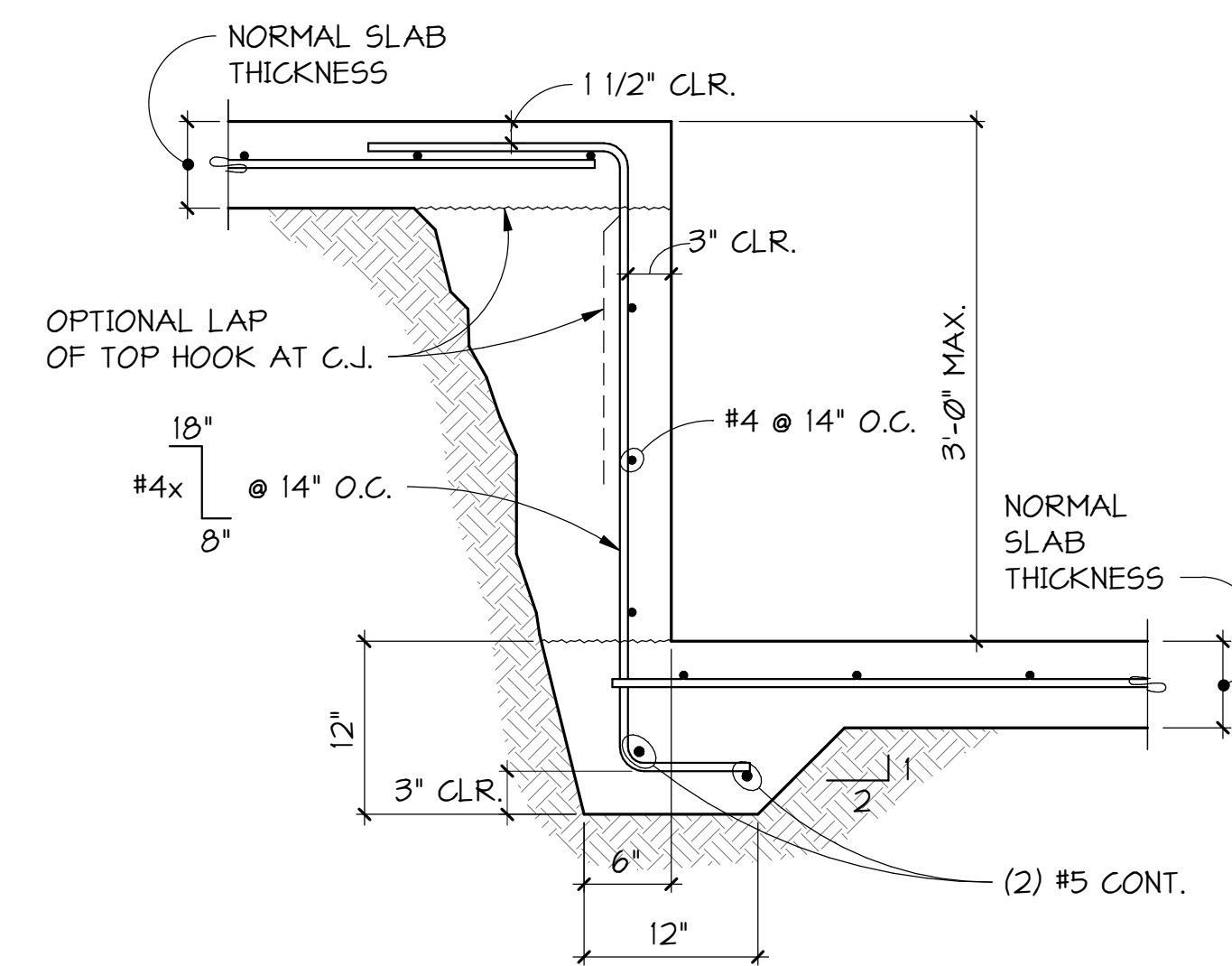
4 PLAN DETAILS  
 5301 NO SCALE

- NOTES:
1. AROUND OPENINGS 6" DIAMETER OR LESS - NO ADDITIONAL REINFORCEMENT REQUIRED.
  2. REINFORCEMENT SHOWN IS #4 AT SLAB MID-DEPTH. HOOK REINFORCEMENT THAT CANNOT BE EXTENDED.



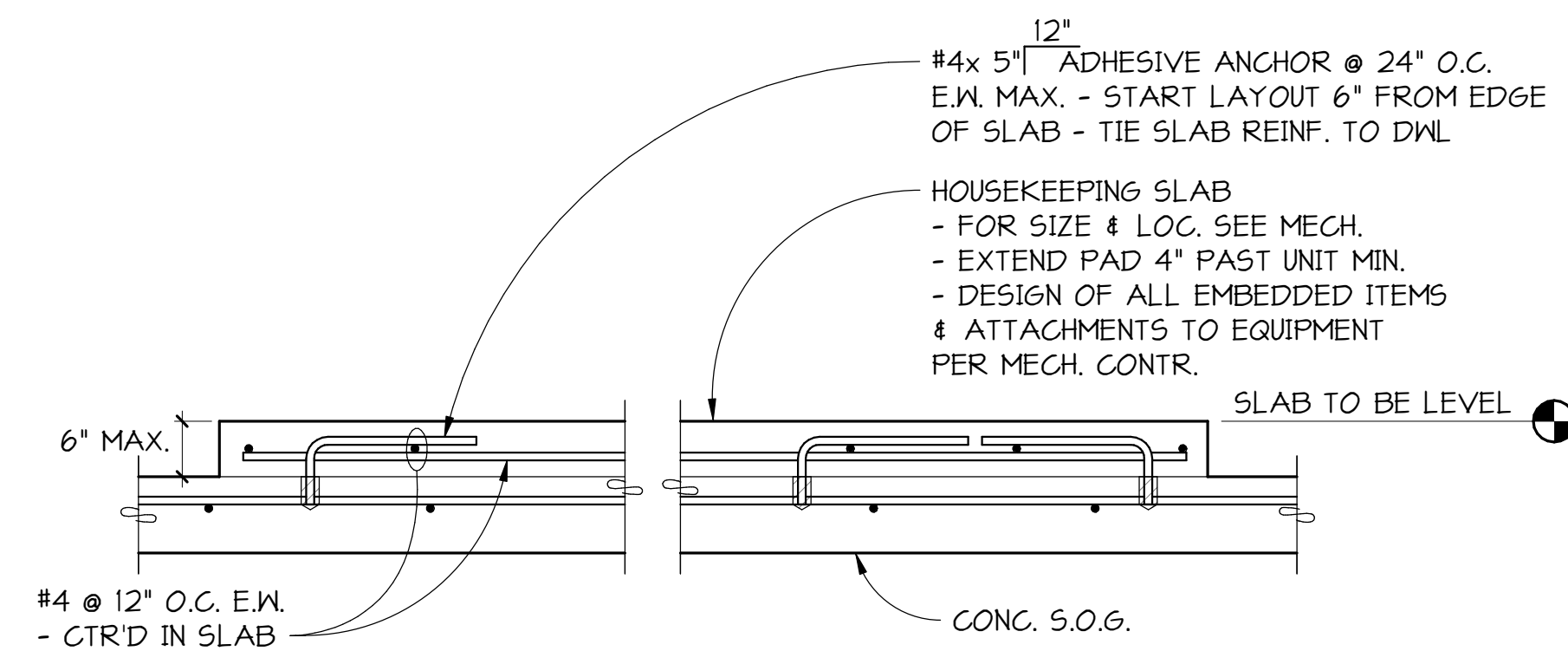
TYPICAL SLAB STEPS OR DEPRESSIONS

5 SECTION  
 5301 NO SCALE



TYPICAL STEPPED SLAB (3'-0" MAXIMUM)

6 SECTION  
 5301 NO SCALE



TYPICAL HOUSEKEEPING SLAB AT SLAB-ON-GRADE

7 DETAIL  
 5301 NO SCALE

**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

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February 24, 2023

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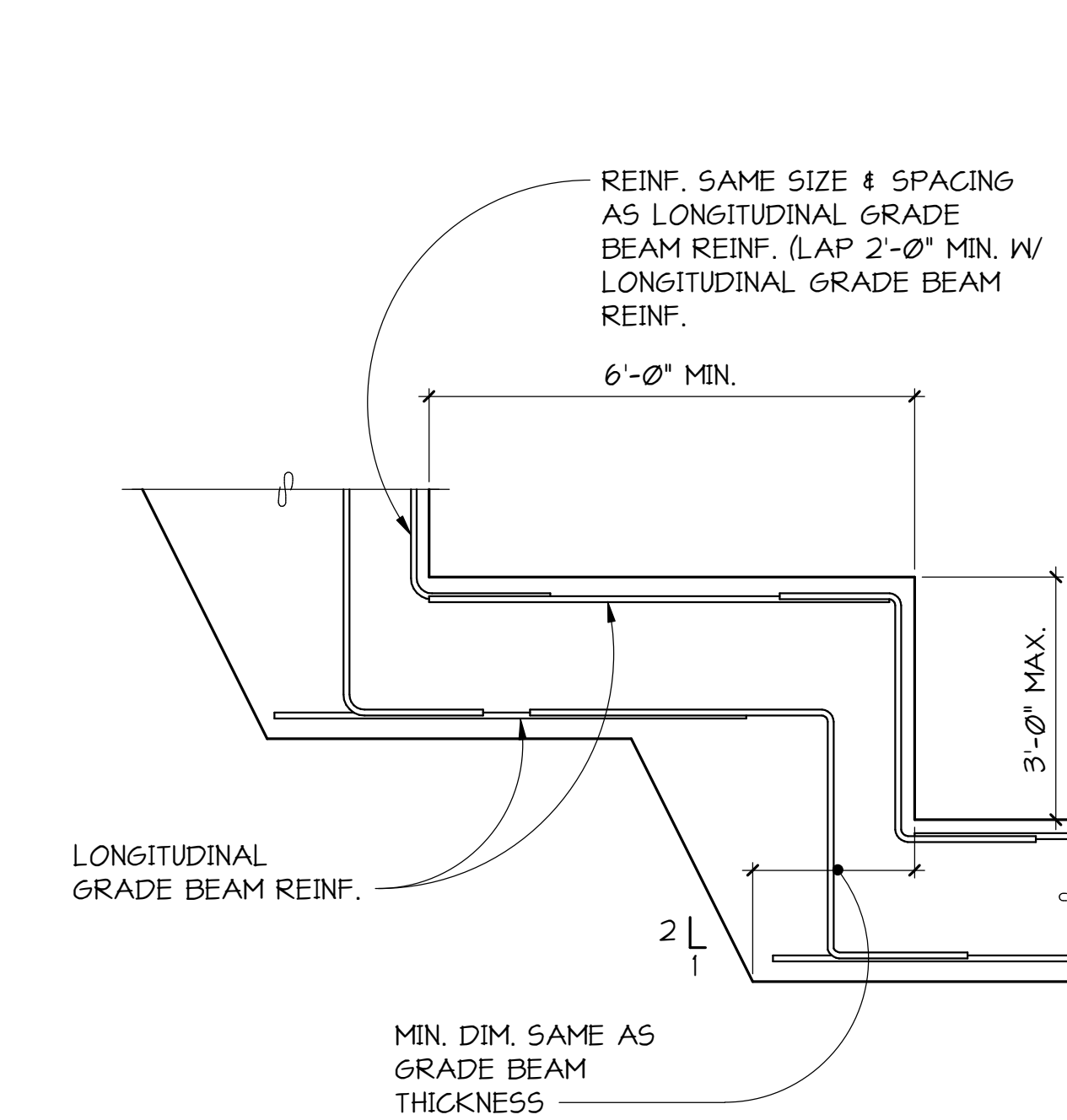
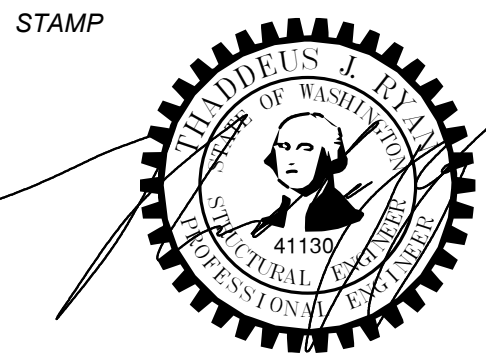
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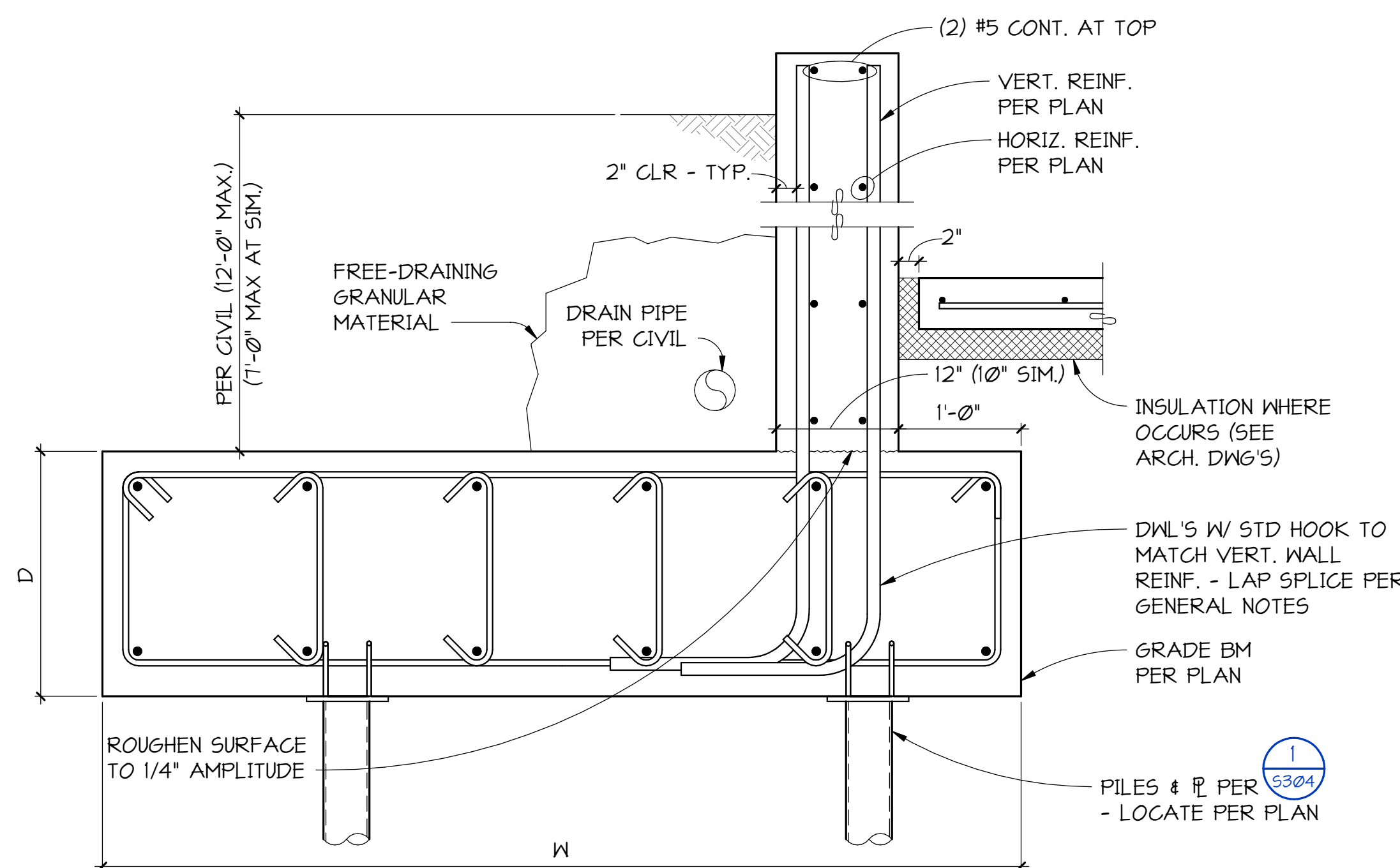
Issue Date: February 24, 2023

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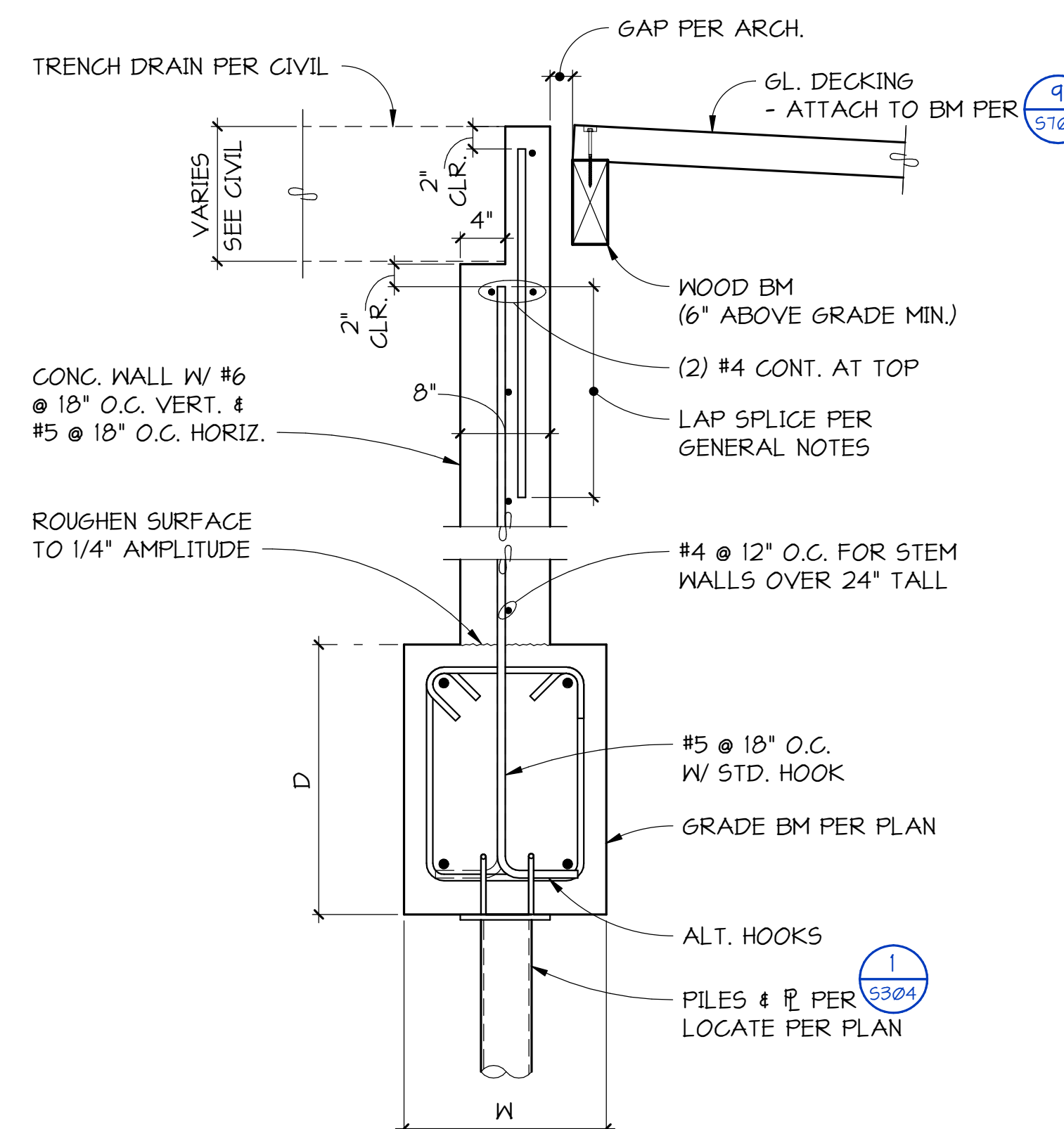
**SLAB-ON-GRADE DETAILS S301**



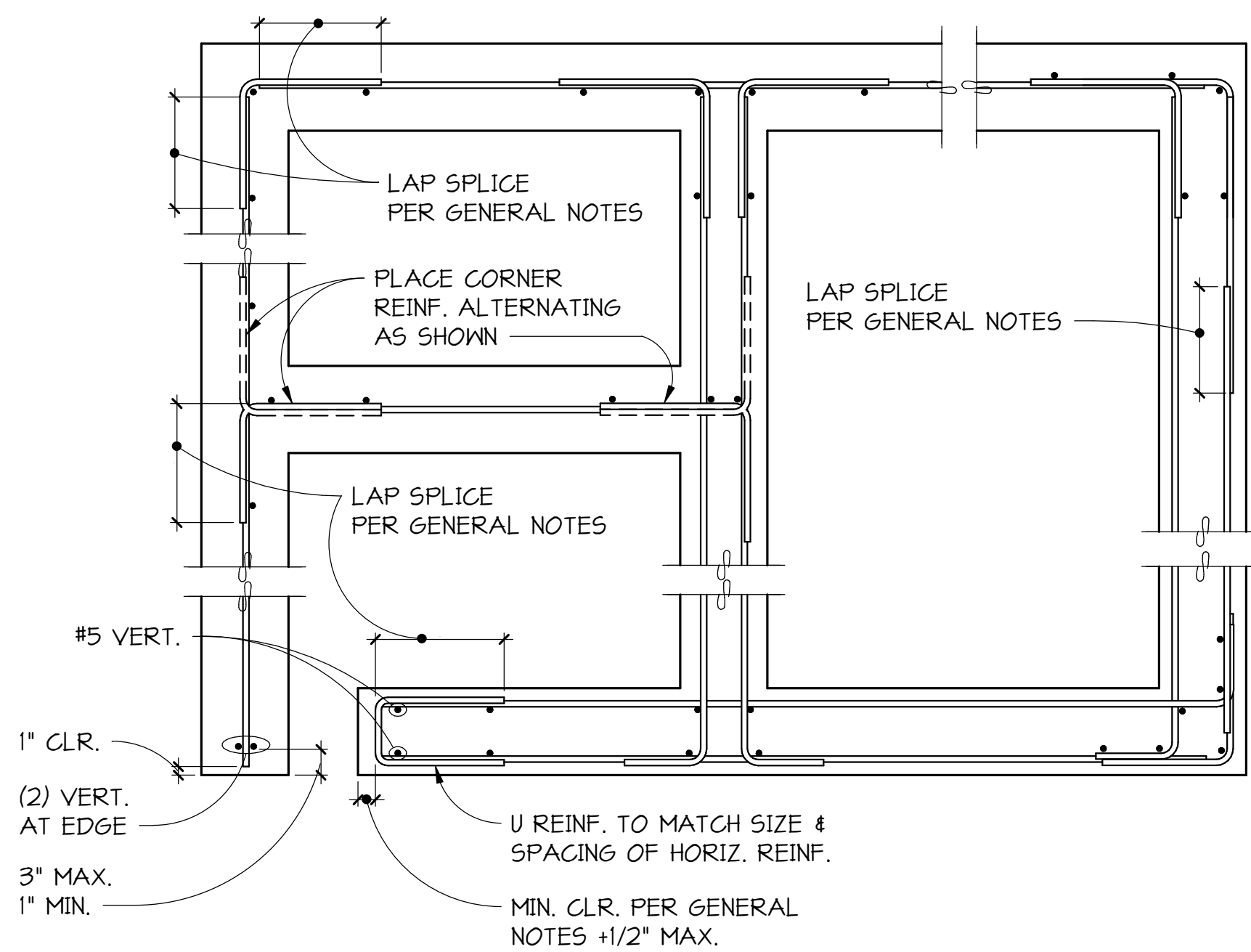
**1** **DETAIL**  
 5302 NO SCALE



**2** **SECTION**  
 5302 1" = 1'-0"

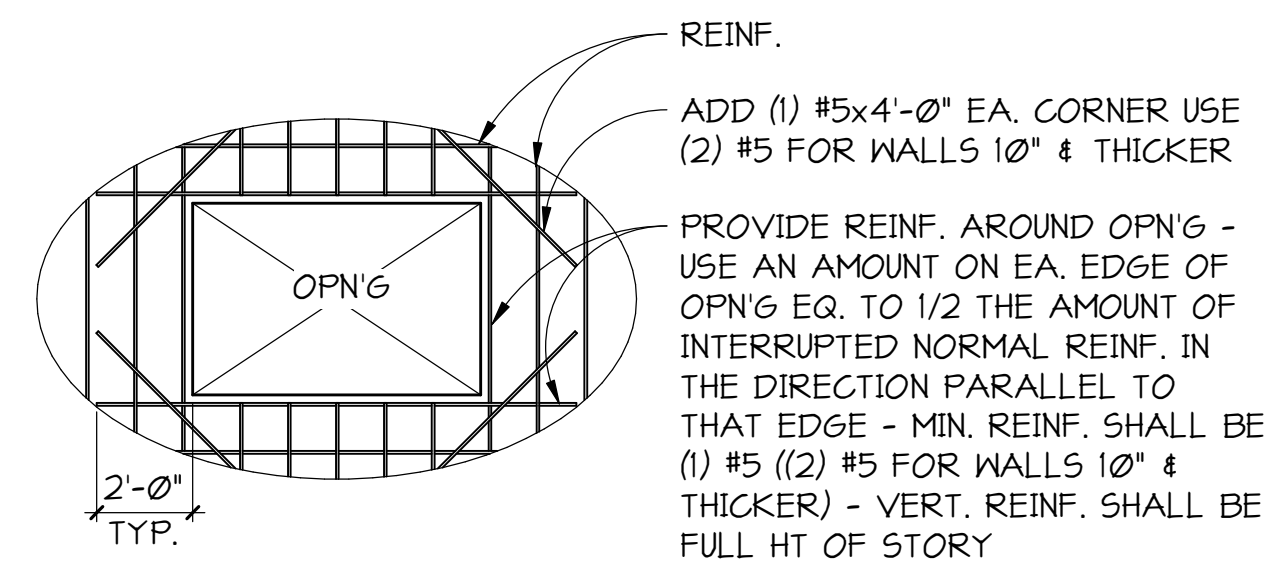


**3** **SECTION**  
 5302 1" = 1'-0"

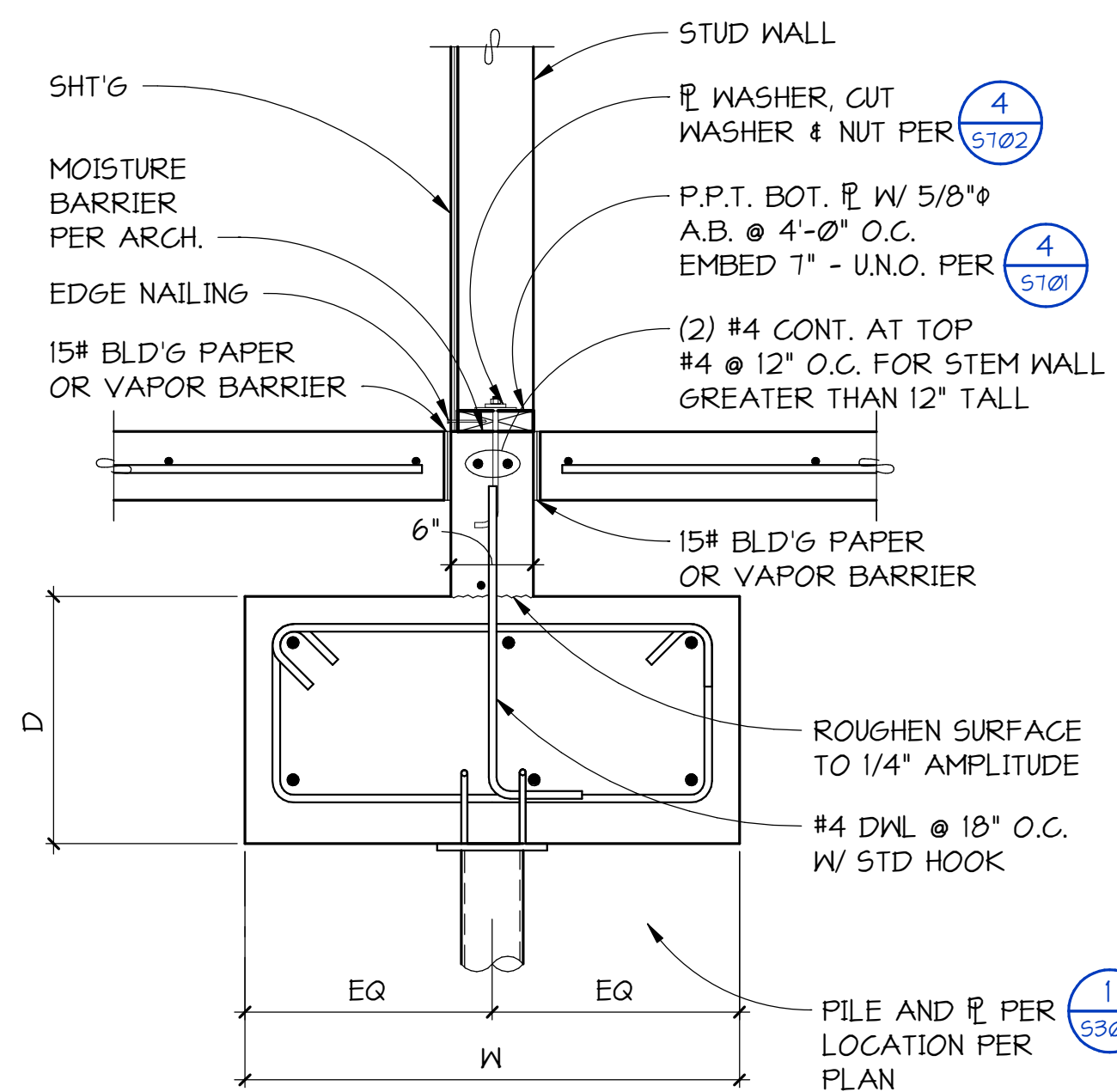


**4** **DETAIL**  
 5302 NO SCALE

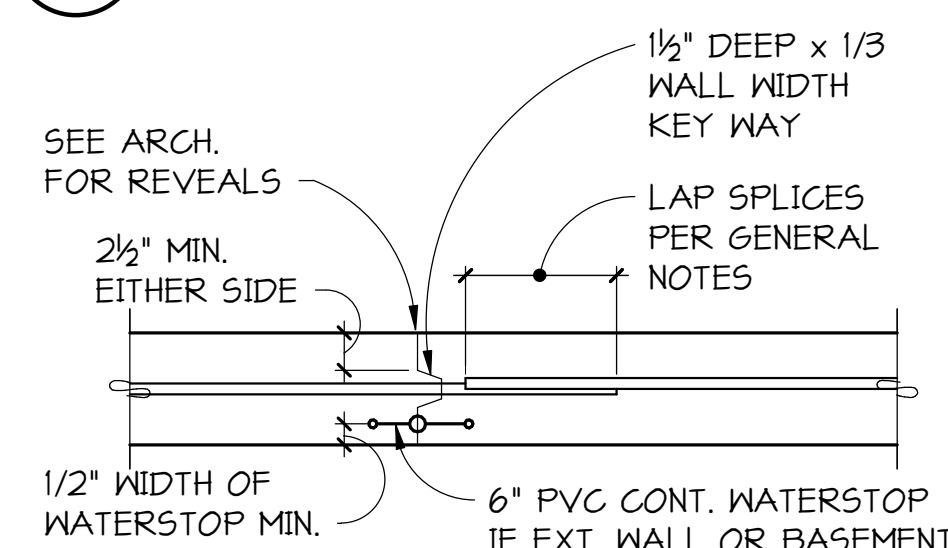
- NOTES:**
1. VERTICAL REINFORCEMENT SHOWN IS ADDITIONAL IF NORMAL STEM WALL REINFORCEMENT IS NOT IN PROPER LOCATION.
  2. CORNER REINFORCEMENT IS SAME SIZE AND SPACING AS HORIZONTAL REINFORCEMENT.
  3. STANDARD HOOK MAY BE SUBSTITUTED FOR CORNER REINFORCEMENT - SEE NOTE #5.
  4. REINFORCEMENT AT ALL CORNERS, ENDS, AND INTERSECTIONS OF WALLS SHALL BE PLACED IN ACCORDANCE WITH APPROPRIATE DETAIL SHOWN.
  5. USE STANDARD HOOK FOR EMBEDMENT LESS THAN 24" PAST FACE OF WALL.



**5** **SECTION**  
 5302 NO SCALE

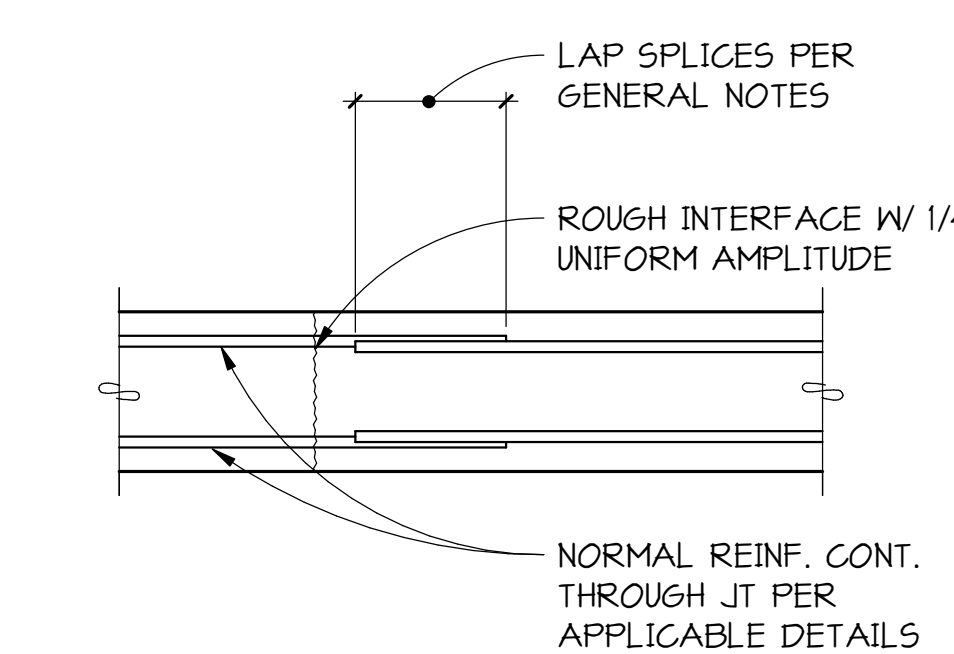


**6** **SECTION**  
 5302 NO SCALE

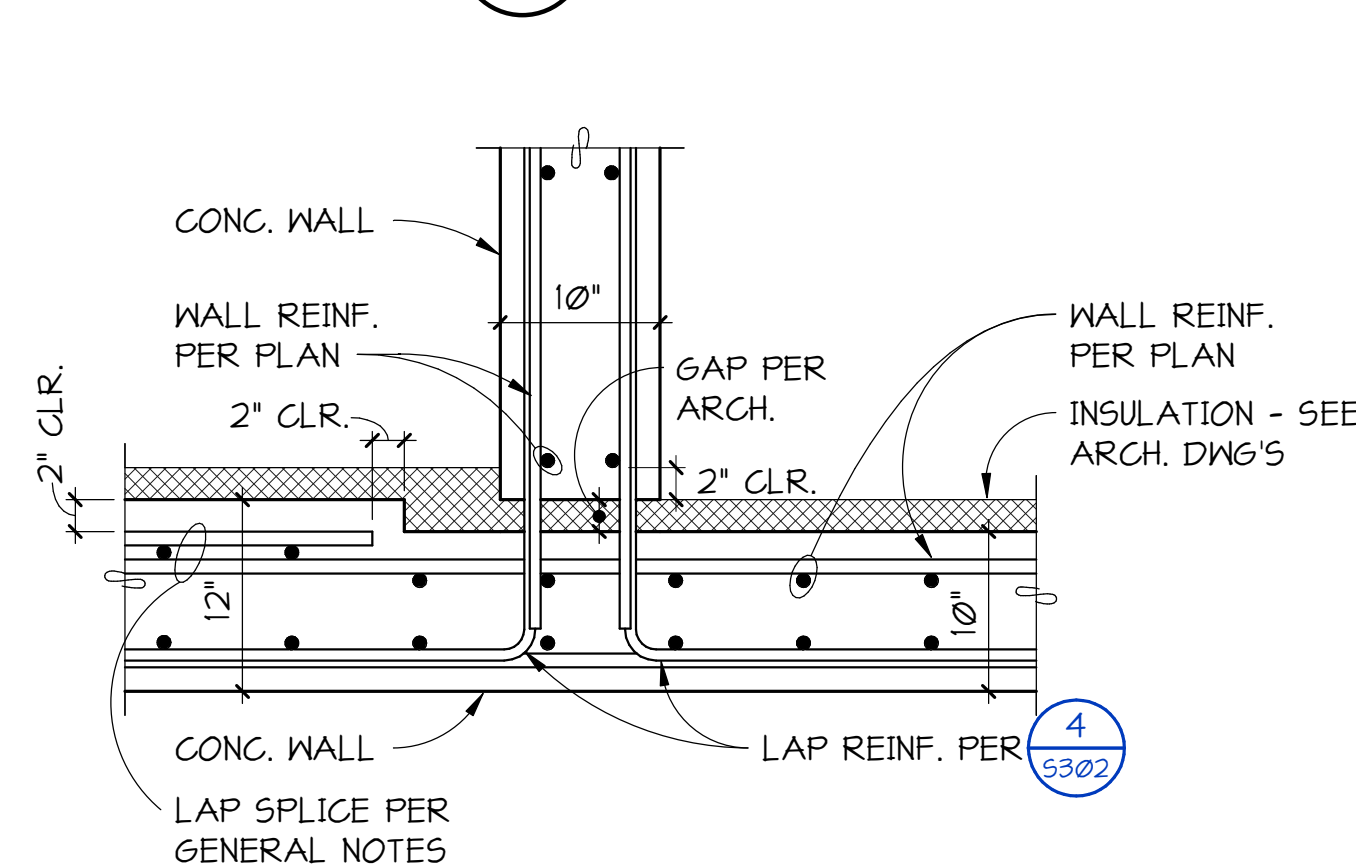


**NOTE:**  
 OBTAIN APPROVAL OF ENGINEER FOR LOCATION OF ANY CONSTRUCTION JOINT.

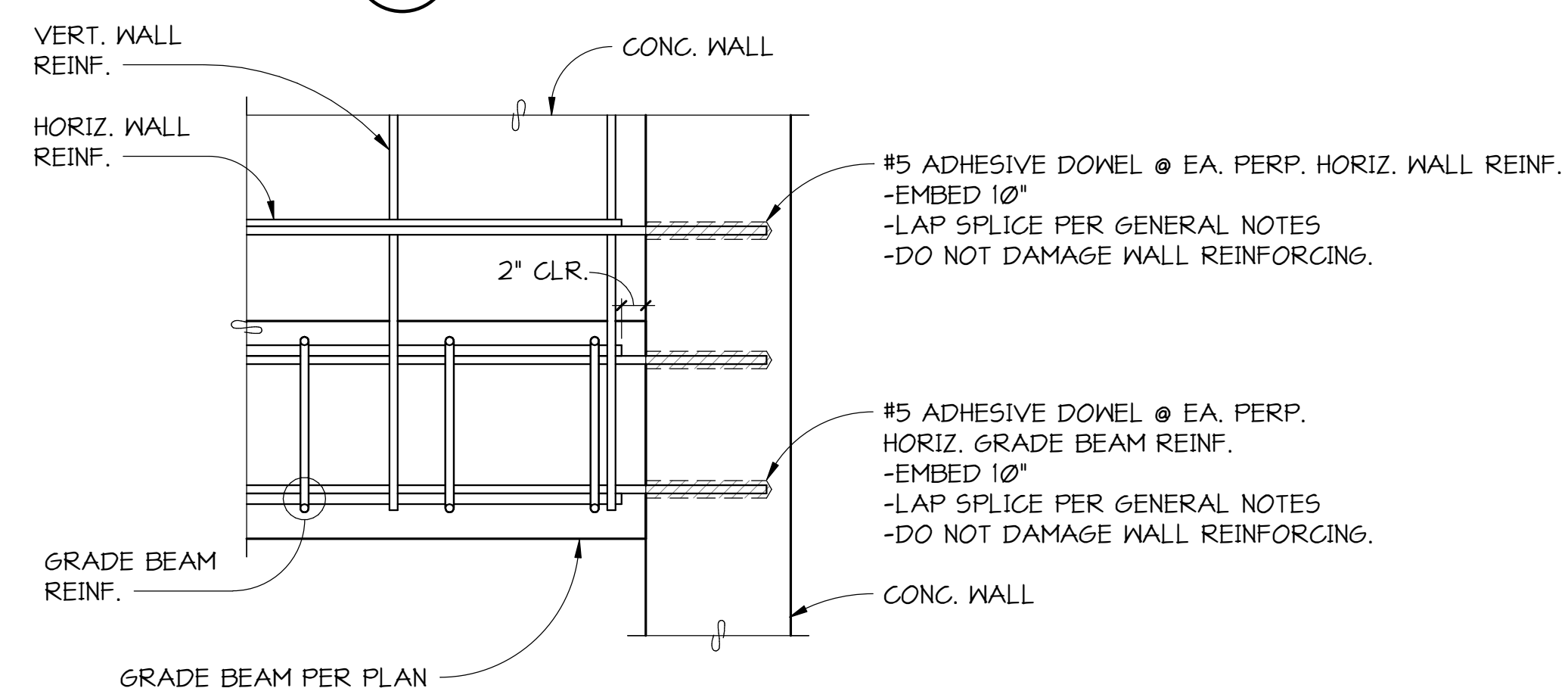
**7** **CONSTRUCTION JOINTS**  
 5302 NO SCALE



**TYPICAL AT CONCRETE GRADE BEAMS AND FOOTINGS**



**8** **PLAN DETAIL**  
 5302 1" = 1'-0"



**9** **SECTION**  
 5302 1" = 1'-0"

**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

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February 24, 2023

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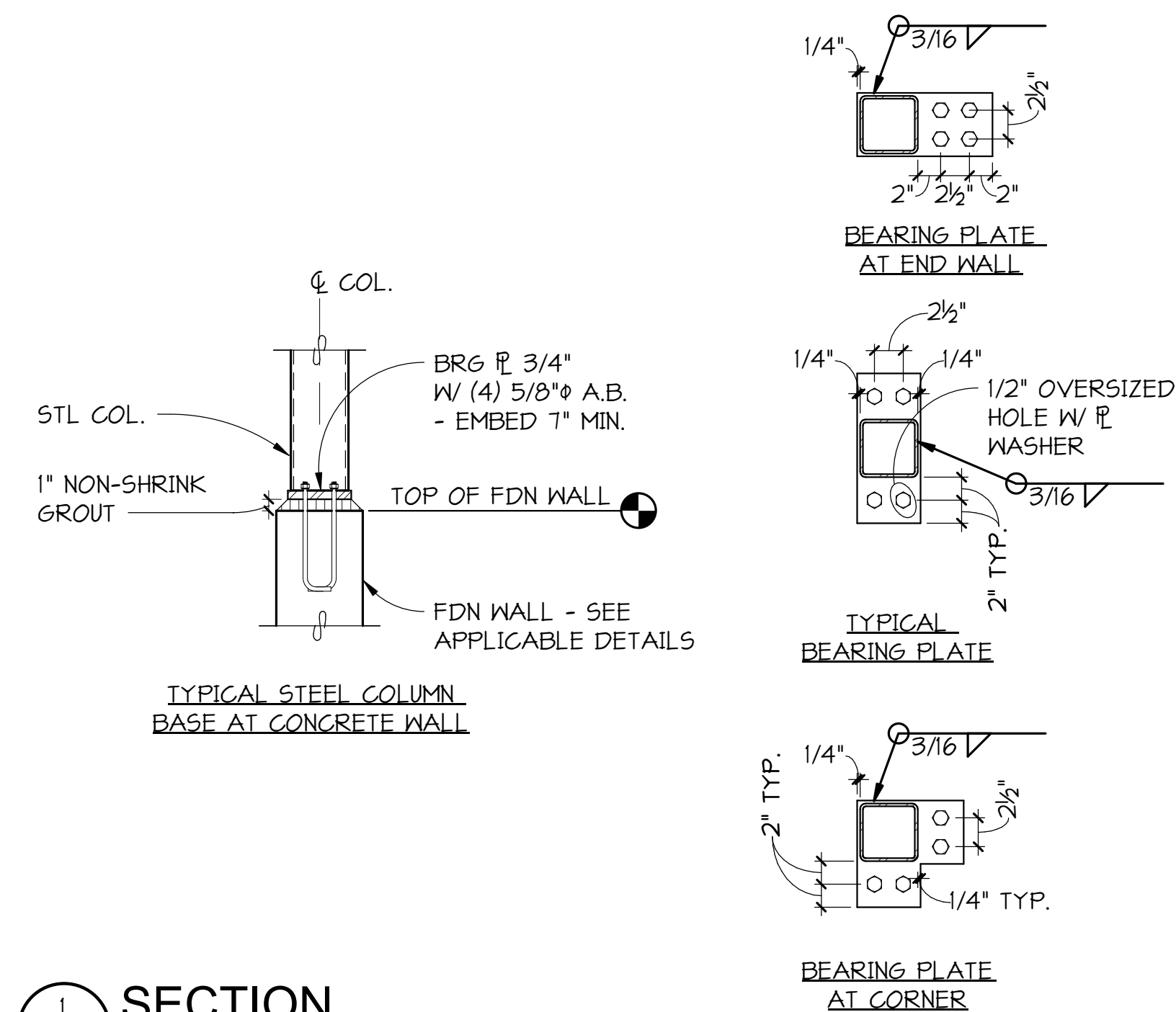
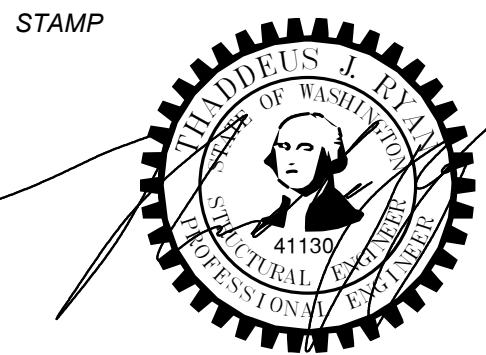
No.	Description	Date

Drawn: DEH  
 Checked: TJR  
 MJH Proj No.: A20.0085.00

Issue Date: February 24, 2023

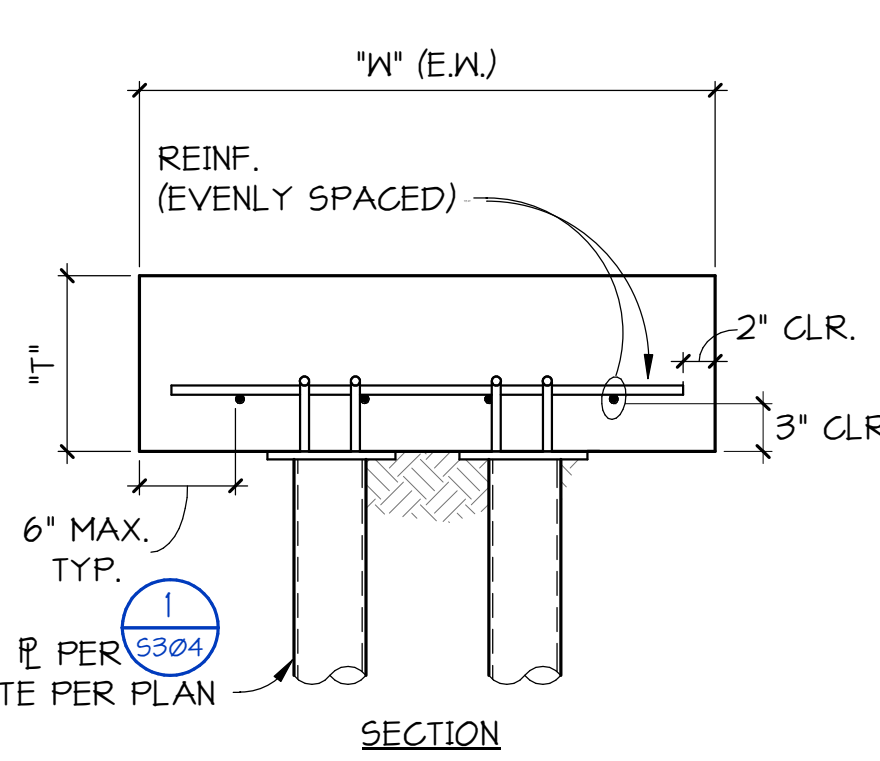
SHEET

**FOUNDATION DETAILS S302**



MARK	DIMENSIONS		REINFORCEMENT EACH WAY
	"W"	"T"	
F2.0	2'-0"	12"	(3) #4
F3.0	3'-0"	12"	(4) #4
F4.0	4'-0"	14"	(4) #5
F5.5	5'-6"	24"	(5) #6 T & B

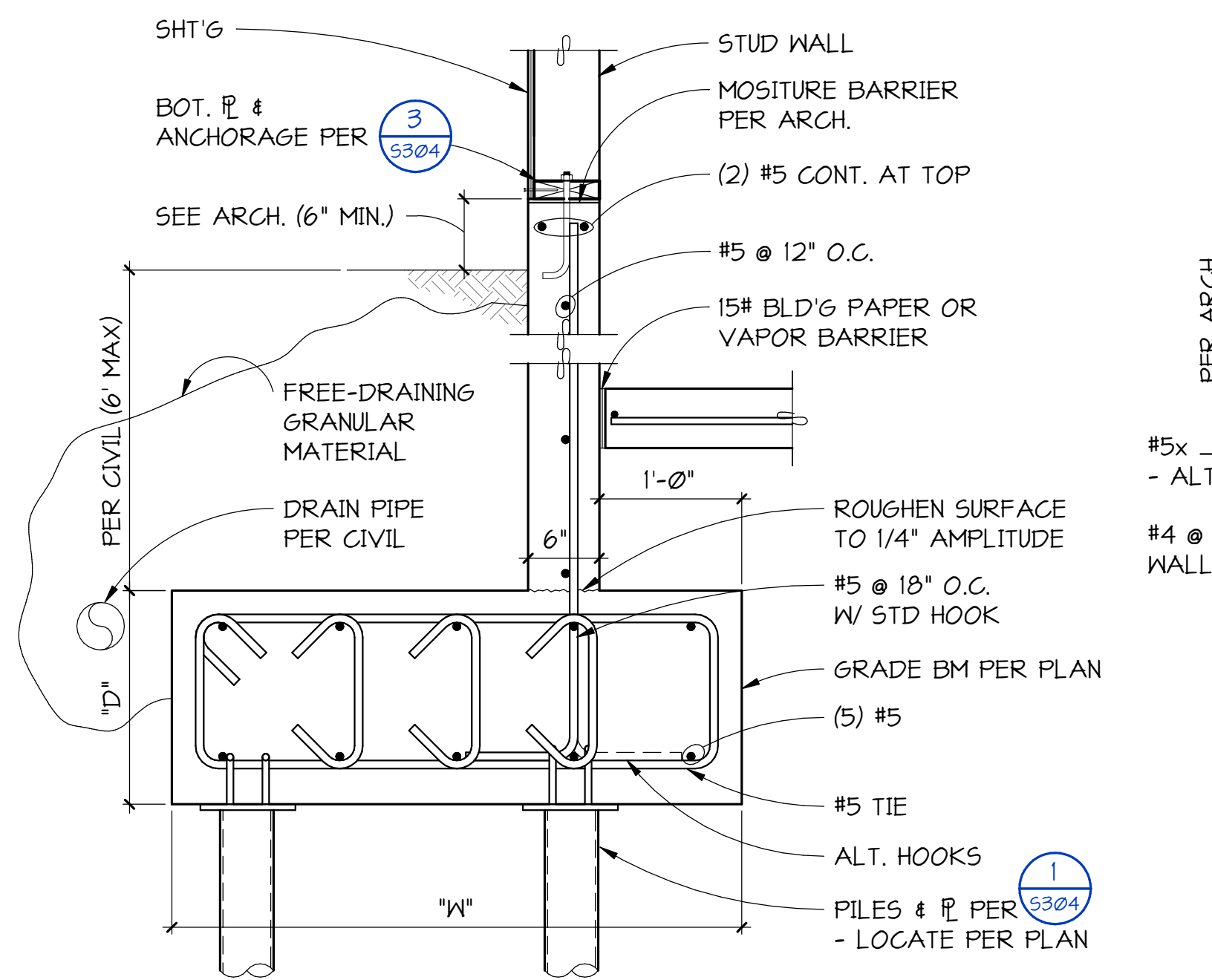
**NOTES:**  
 1. CENTER ALL FOOTINGS ON COLUMN ABOVE EXCEPT AS SHOWN OTHERWISE.  
 2. FOOTINGS SHALL BEAR ON UNDISTURBED OR COMPACTED MATERIAL PER GENERAL NOTES.



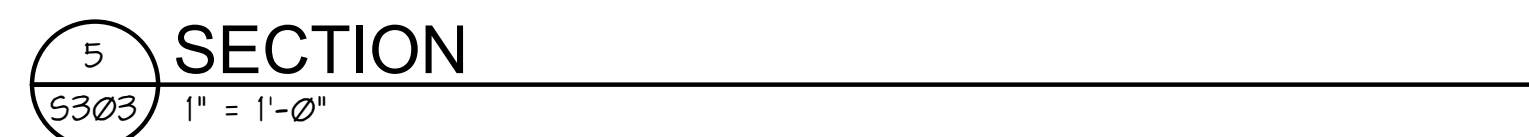
**1 SECTION**  
 5303 NO SCALE

**2 SECTION**  
 5303 NO SCALE

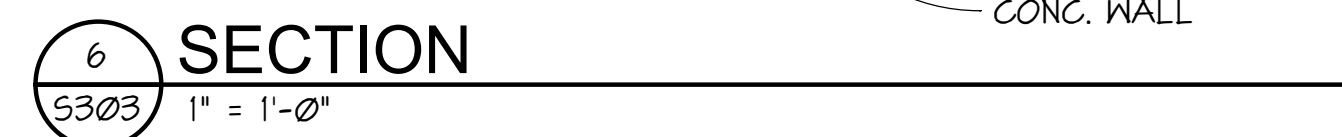
**3 SECTION**  
 5303 NO SCALE



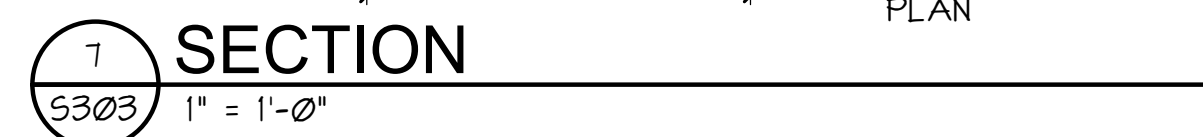
**4 SECTION**  
 5303 1" = 1'-0"



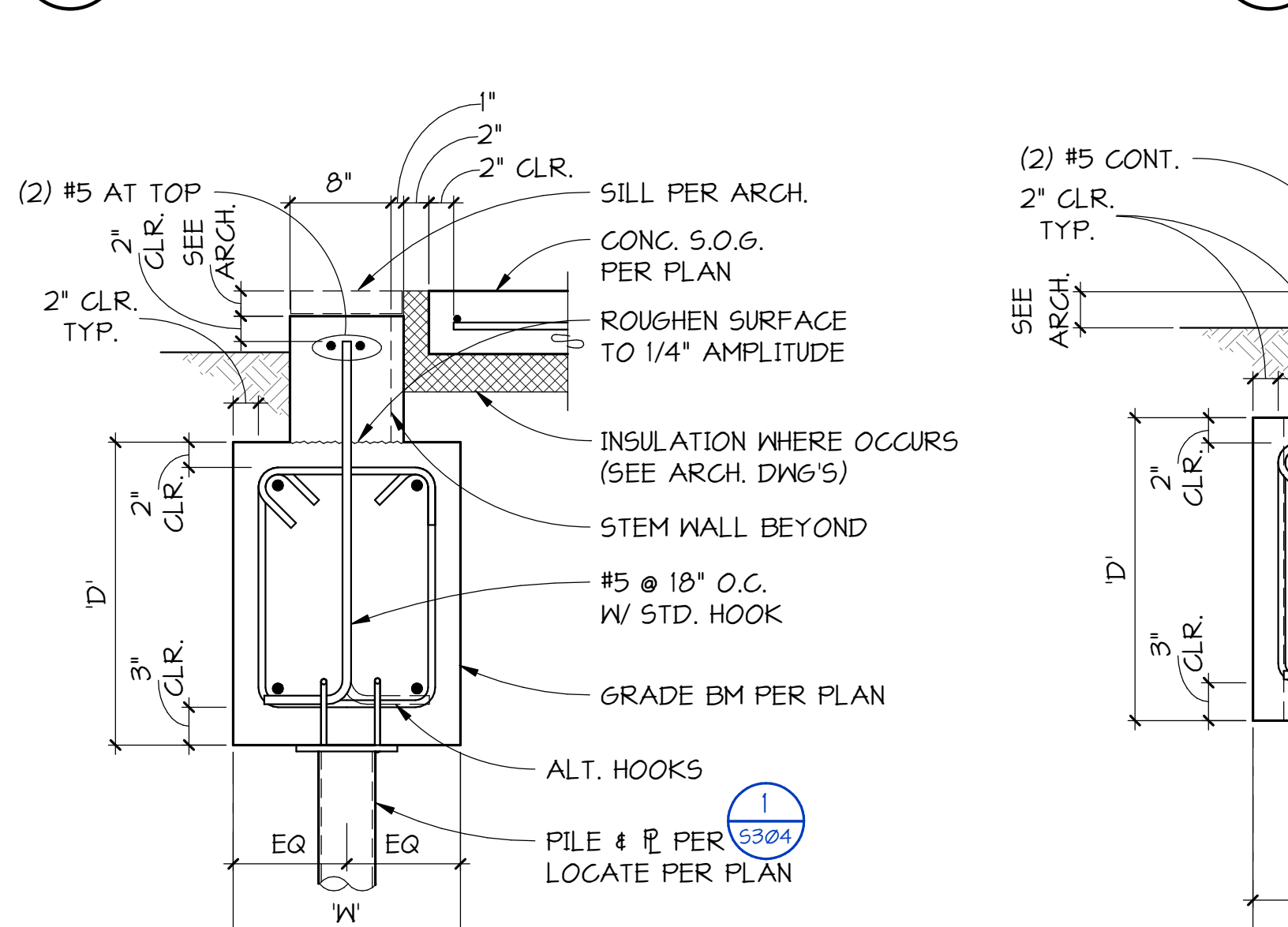
**5 SECTION**  
 5303 1" = 1'-0"



**6 SECTION**  
 5303 1" = 1'-0"



**7 SECTION**  
 5303 1" = 1'-0"



**8 SECTION**  
 5303 1" = 1'-0"



**9 SECTION**  
 5303 NO SCALE



**10 SECTION**  
 5303 NO SCALE



**11 SECTION**  
 5303 1" = 1'-0"

**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

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February 24, 2023

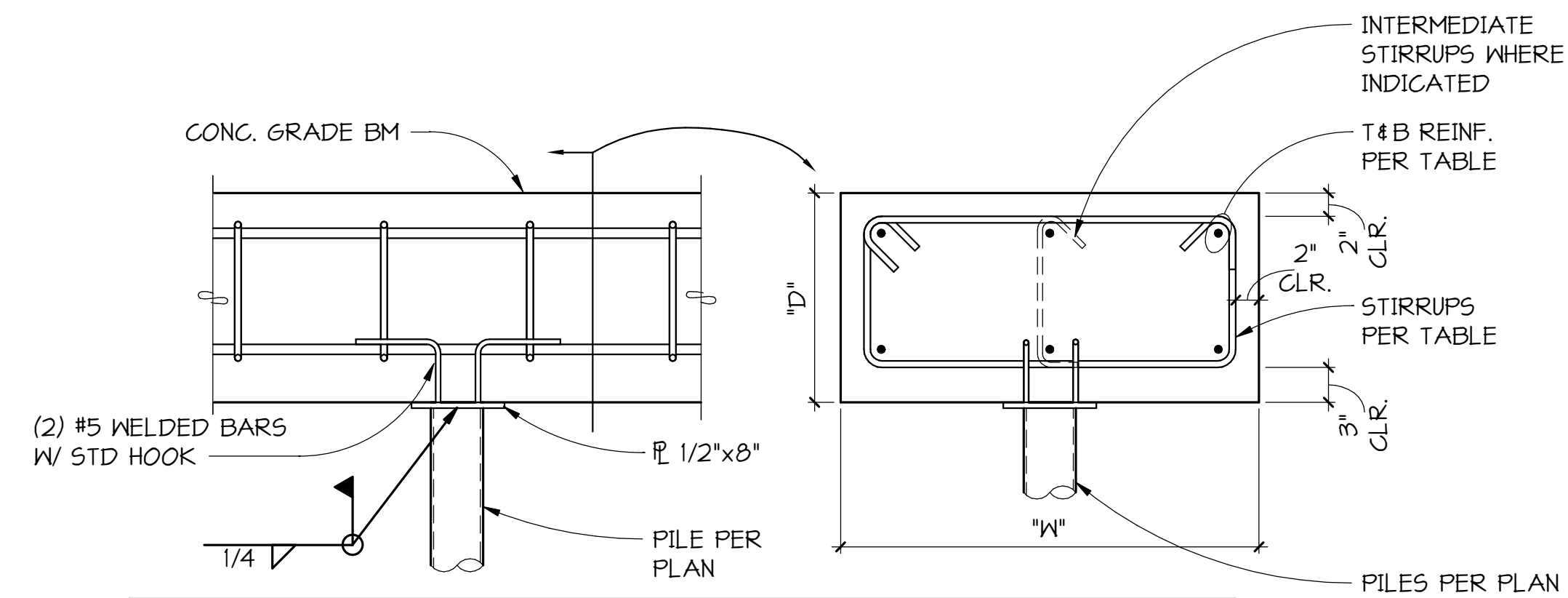
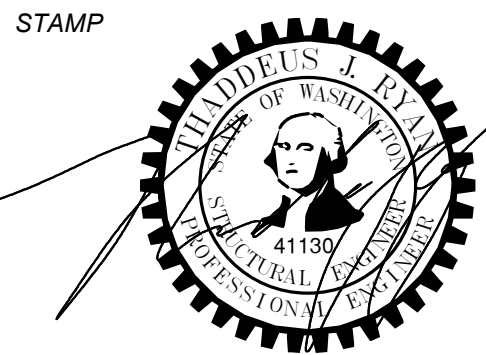
REVISIONS

No.	Description	Date
1	BUILDING PERMIT RESUBMITTAL	10/27/22

Drawn: DEH  
 Checked: TJR  
 MJH Proj No.: A20.0085.00  
 Issue Date: February 24, 2023

SHEET

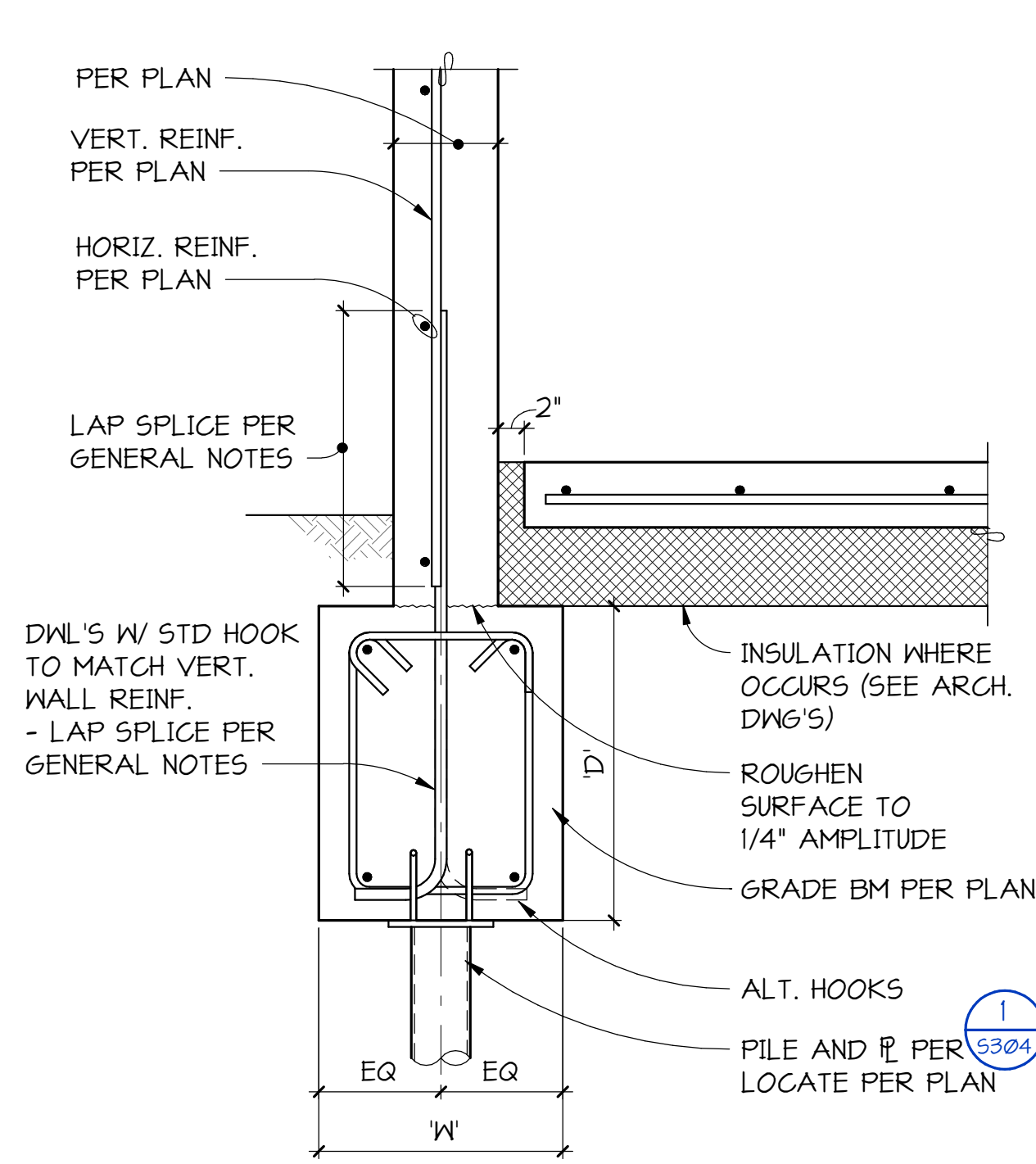
**FOUNDATION DETAILS S303**



GRADE BEAMS					
MARK	"W"	"D"	REINFORCEMENT TOP AND BOTTOM	TRANSVERSE STIRRUPS	INTERMEDIATE STIRRUPS
GB1	36"	18"	(3) #6	#4 @ 12" O.C.	NONE
GB2	40"	24"	(8) #6	#5 @ 12" O.C.	(6) #5 @ 12" O.C.
GB3	18"	24"	(2) #6	#5 @ 12" O.C.	NONE
GB4	72"	24"	(6) #6	#5 @ 12" O.C.	(4) #5 @ 12" O.C.
GB5	66"	30"	(6) #6	#5 @ 10" O.C.	(4) #5 @ 10" O.C.
GB6	48"	18"	(5) #5	#4 @ 12" O.C.	(3) #4 @ 12" O.C.

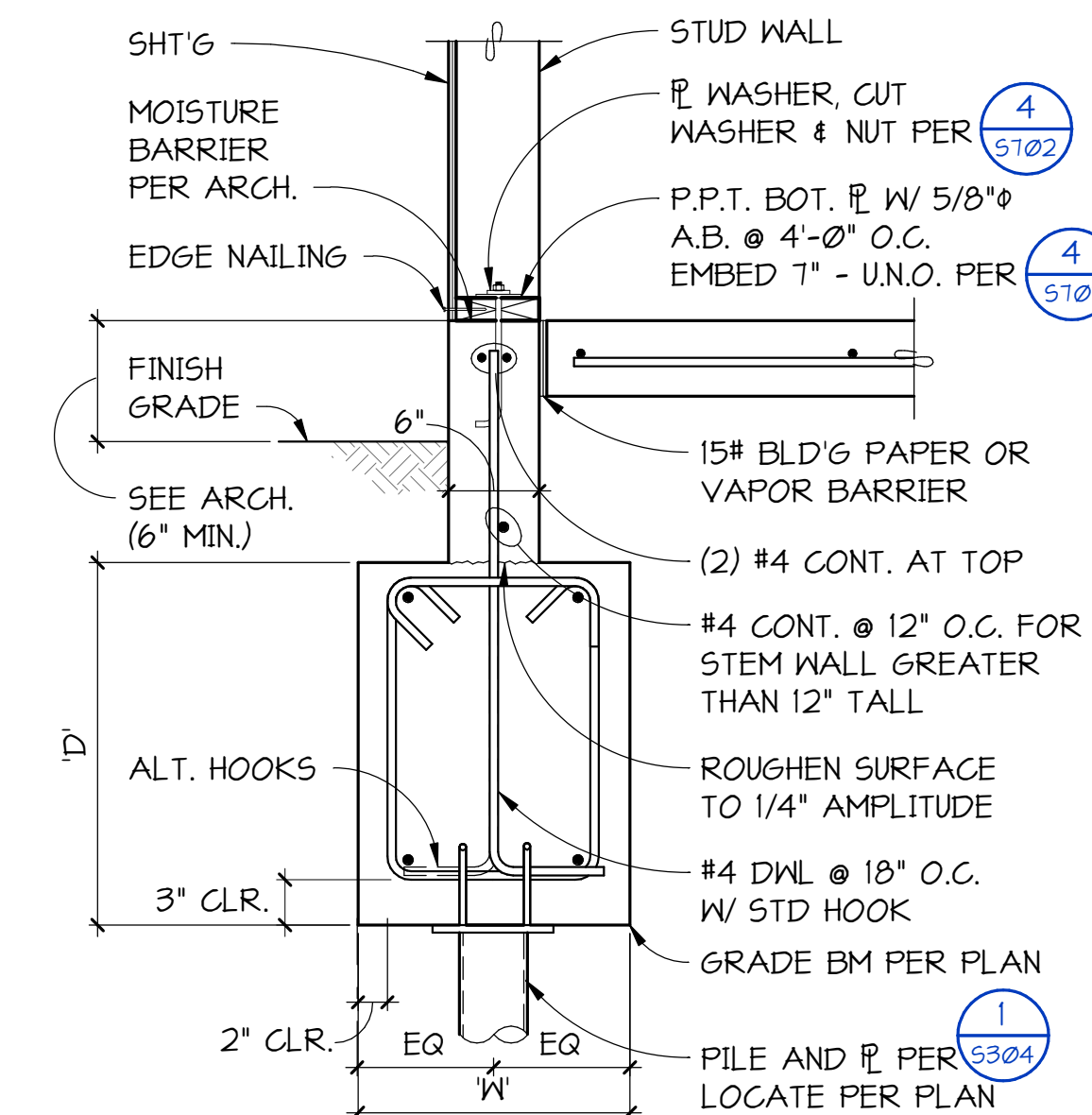
TYPICAL GRADE BEAM AND PIPE PILE

**1** DETAIL  
 5304 NO SCALE



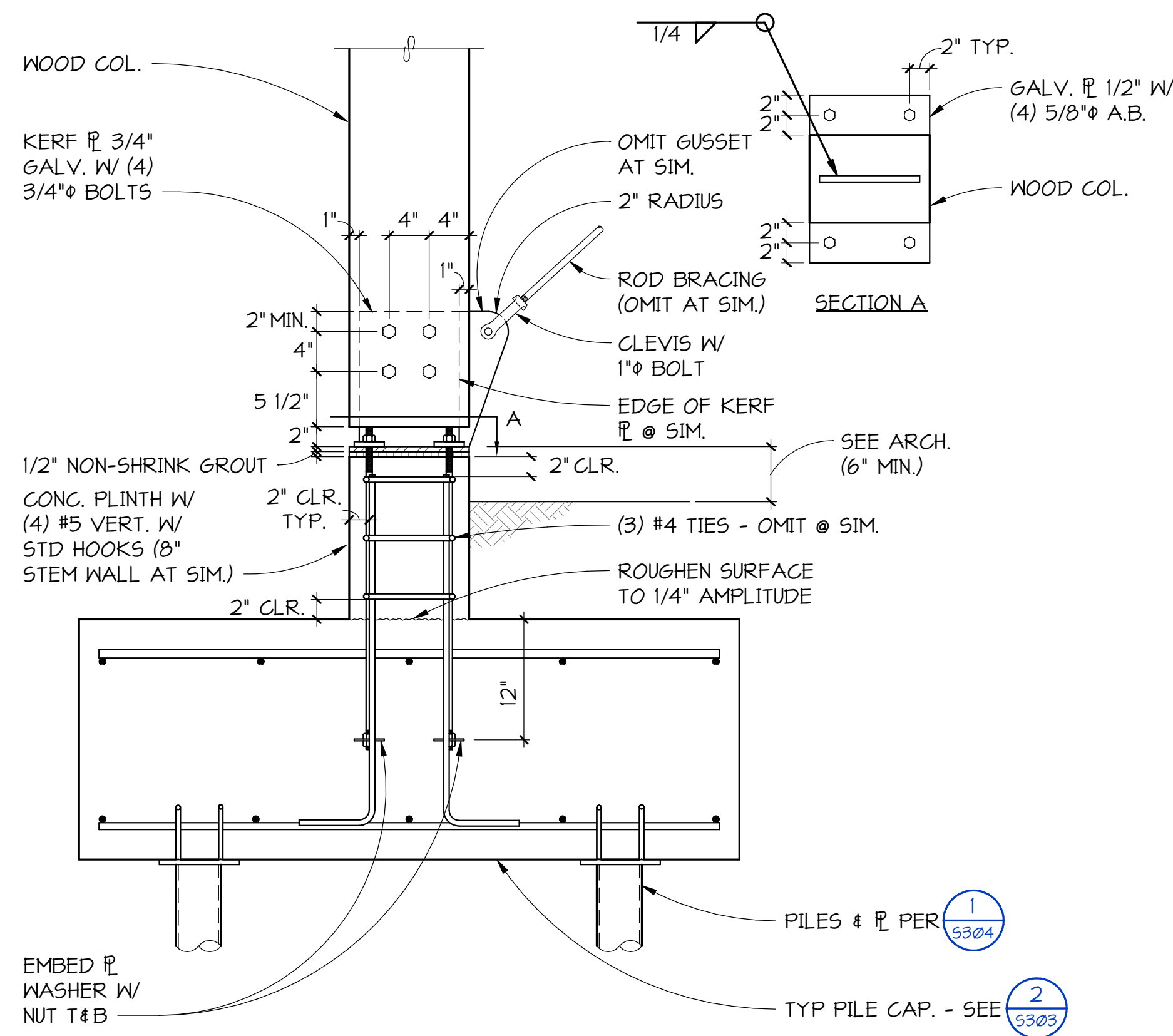
TYPICAL EXTERIOR GRADE BEAM

**2** SECTION  
 5304 NO SCALE

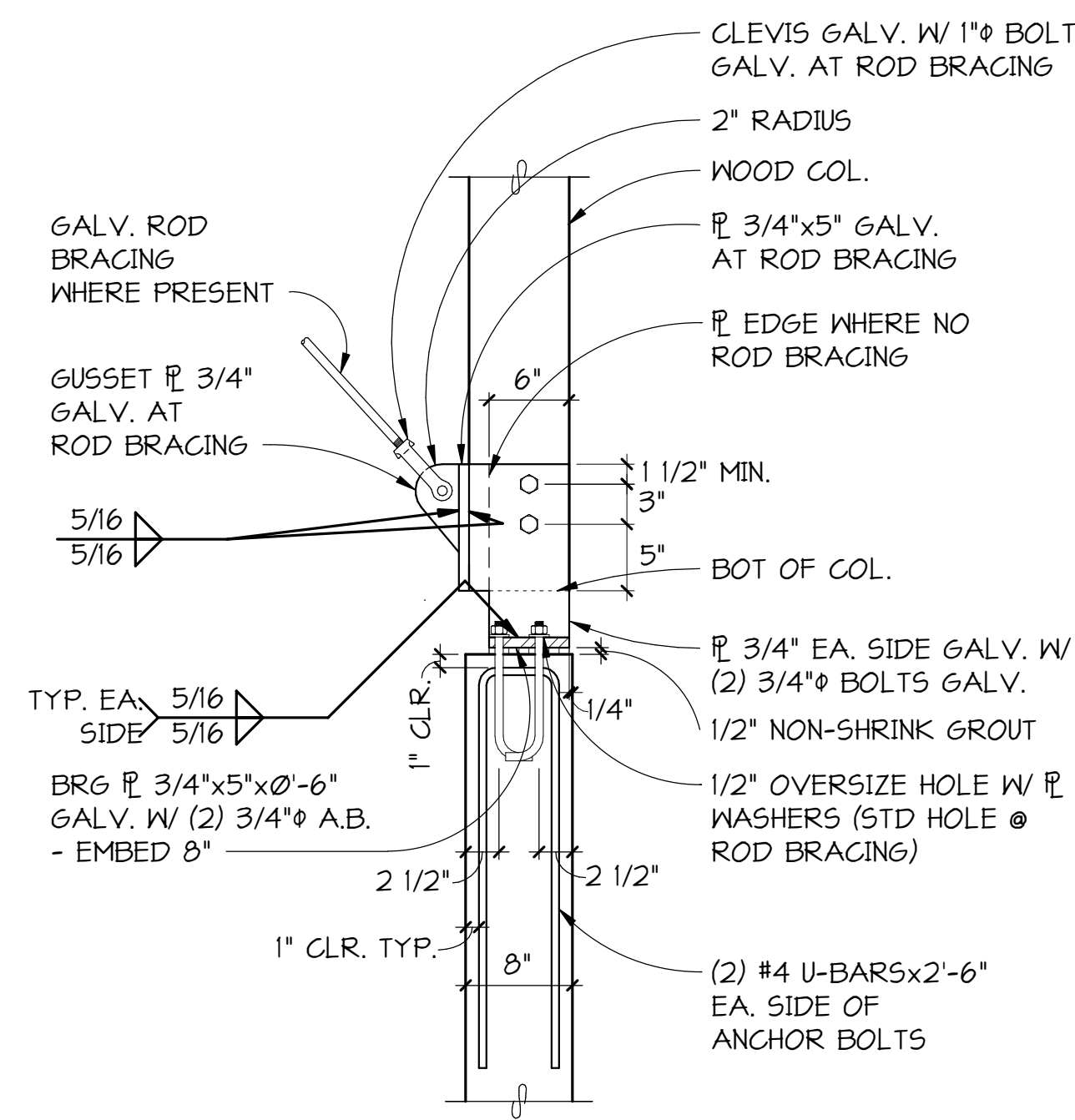


TYPICAL FOUNDATION AT GARAGE EXTERIOR STUD WALL

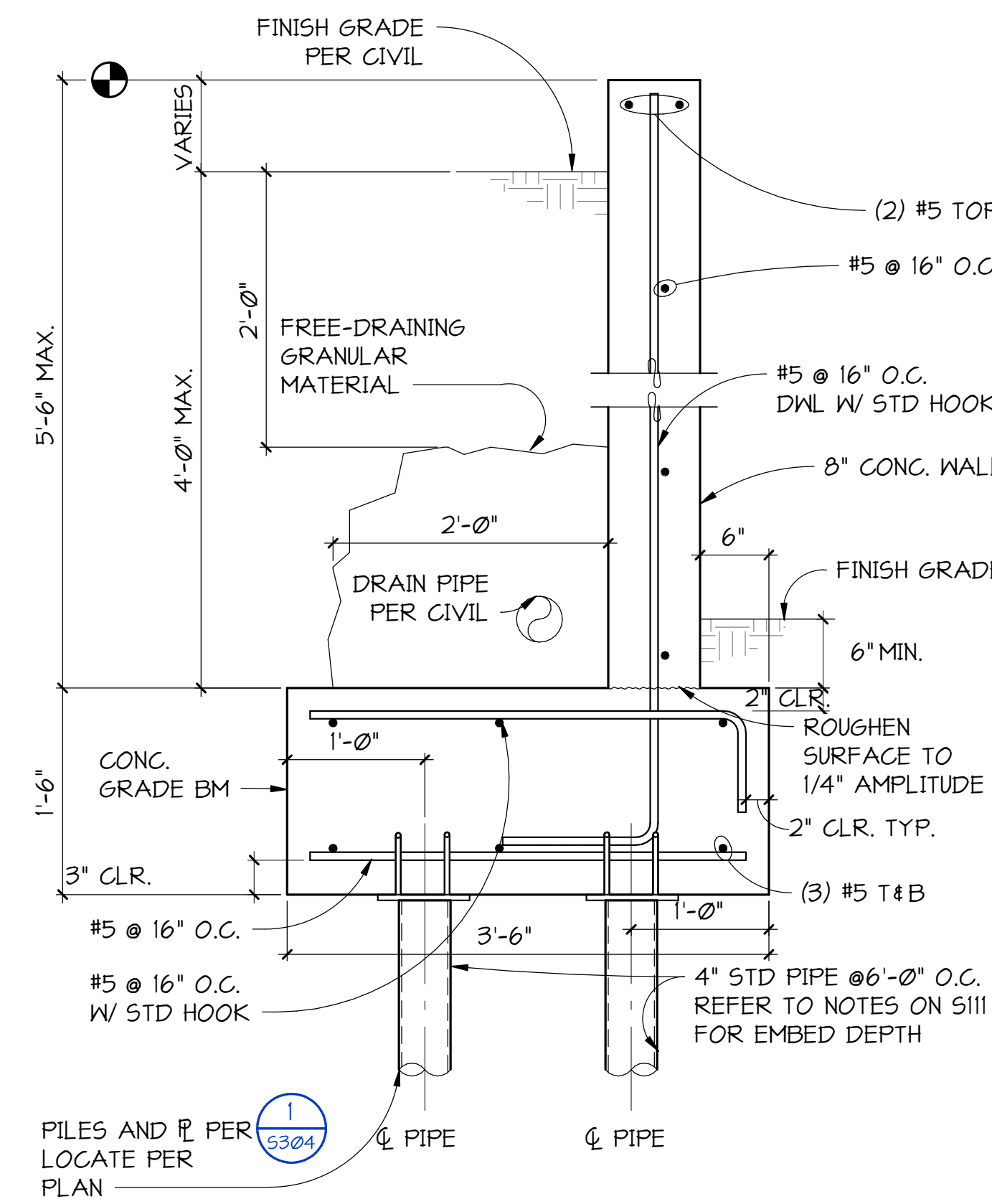
**3** SECTION  
 5304 NO SCALE



**4** DETAIL  
 5304 1" = 1'-0"



**5** DETAIL  
 5304 1" = 1'-0"



**6** SECTION  
 5304 NO SCALE

**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
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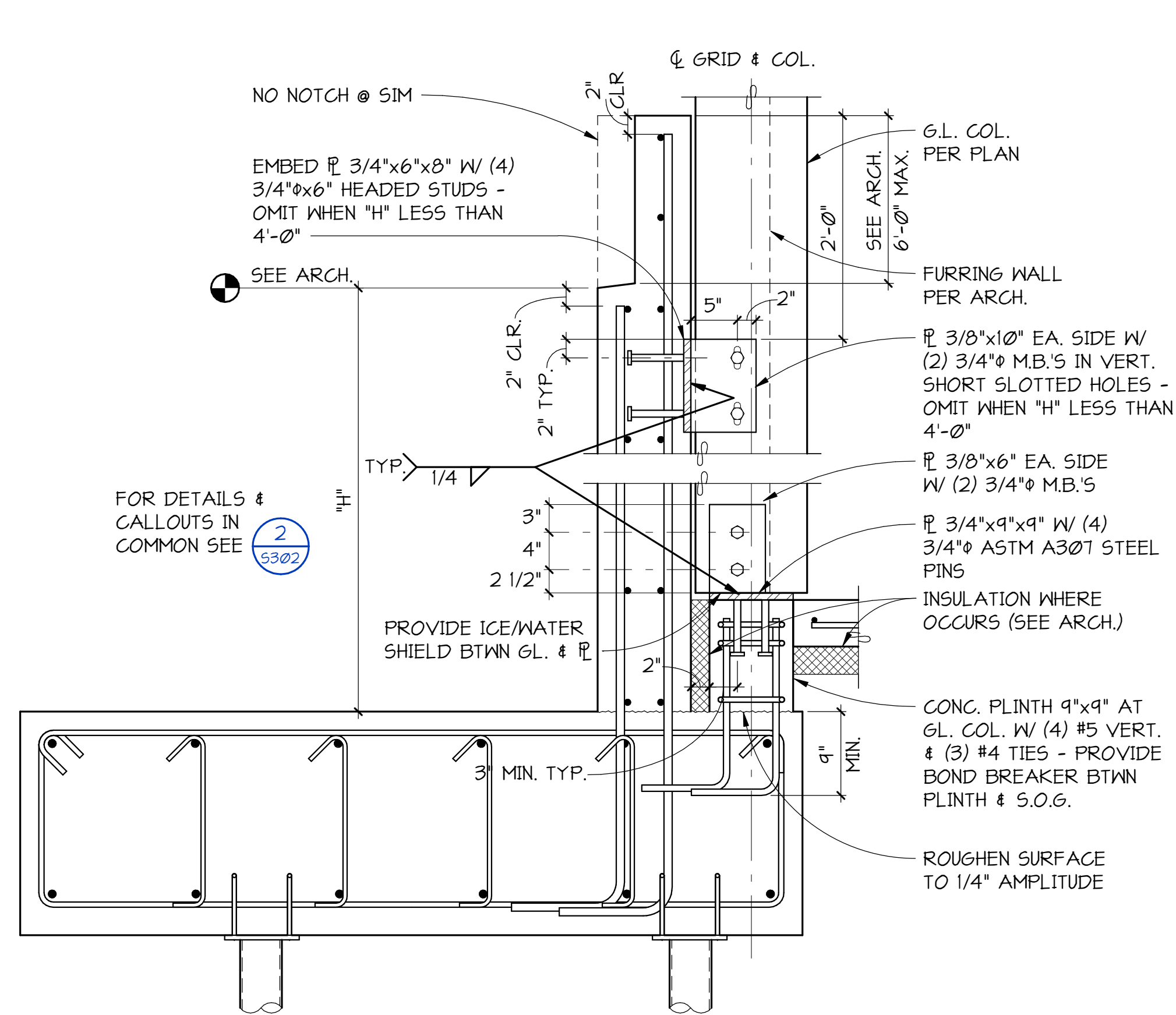
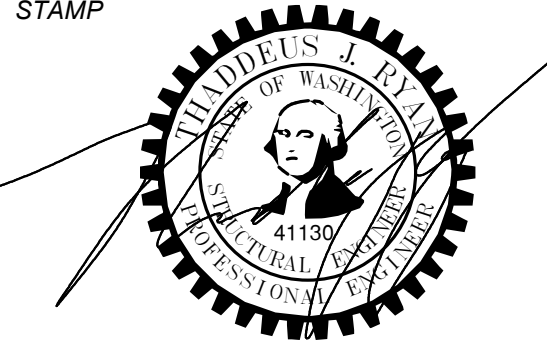
February 24, 2023

REVISIONS		
No.	Description	Date

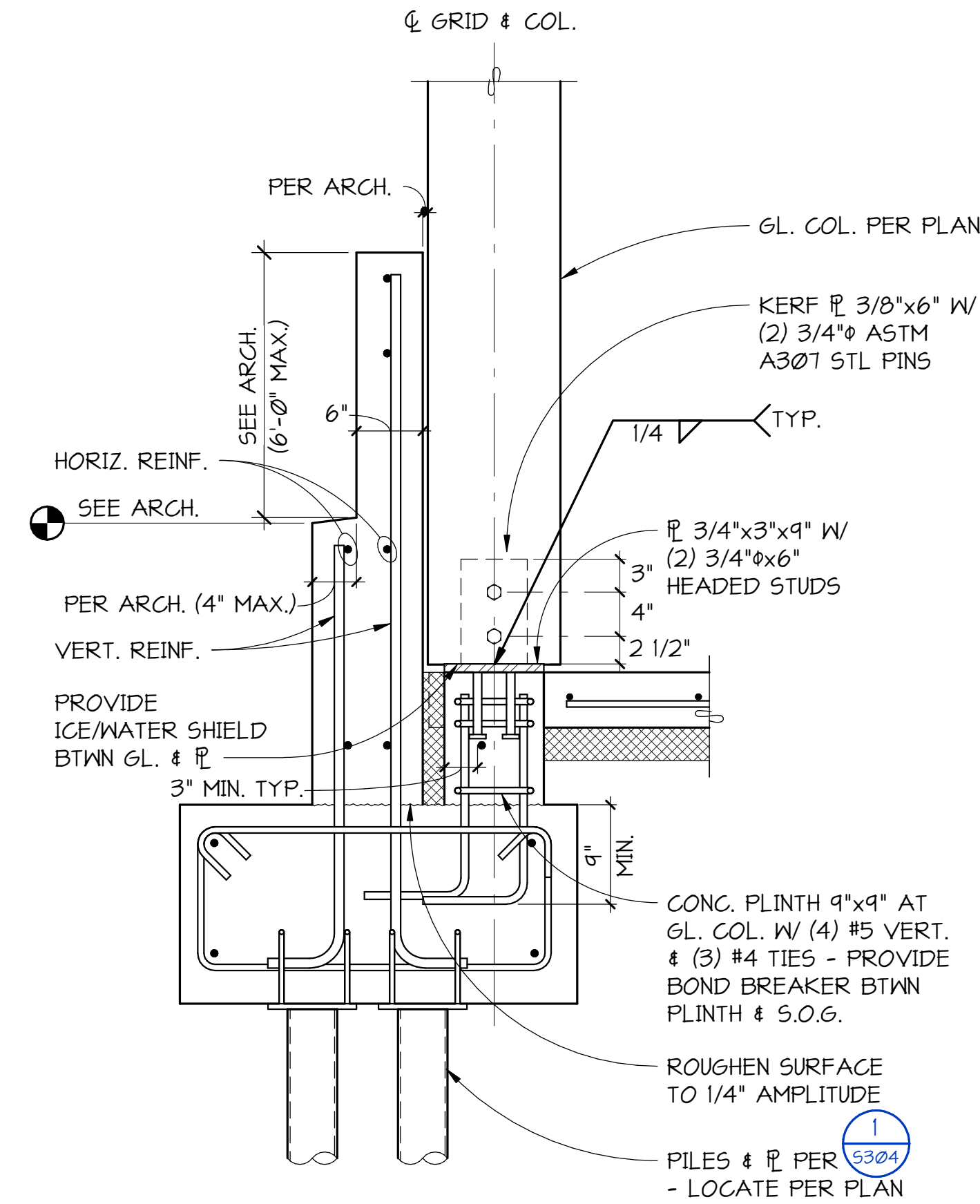
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 Issue Date: February 24, 2023

SHEET

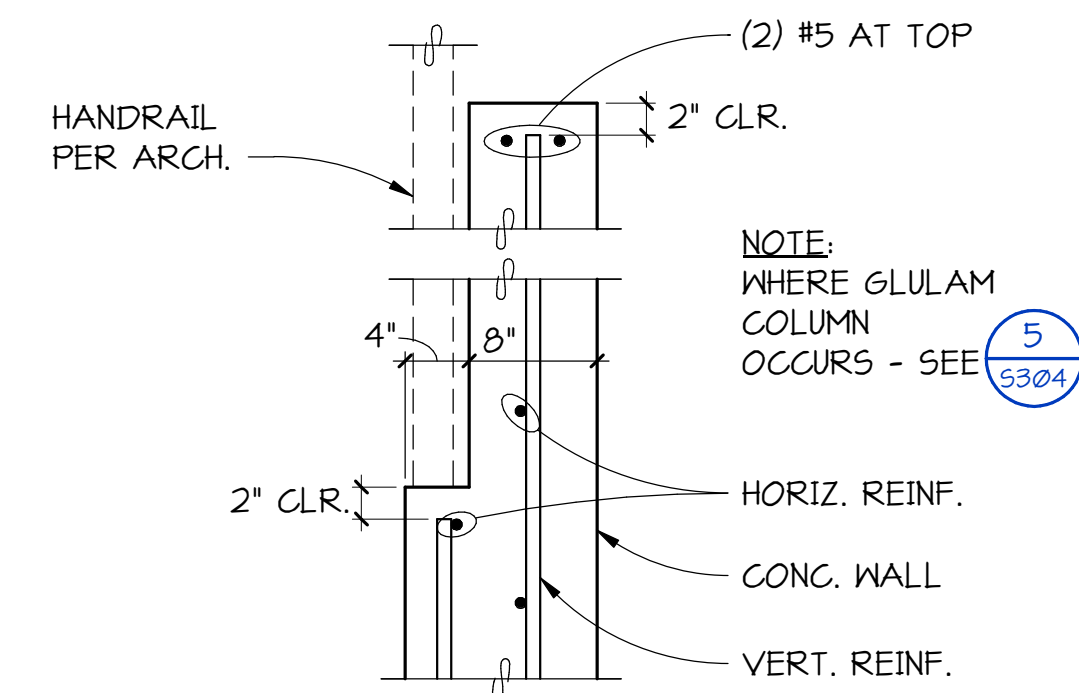
STAMP



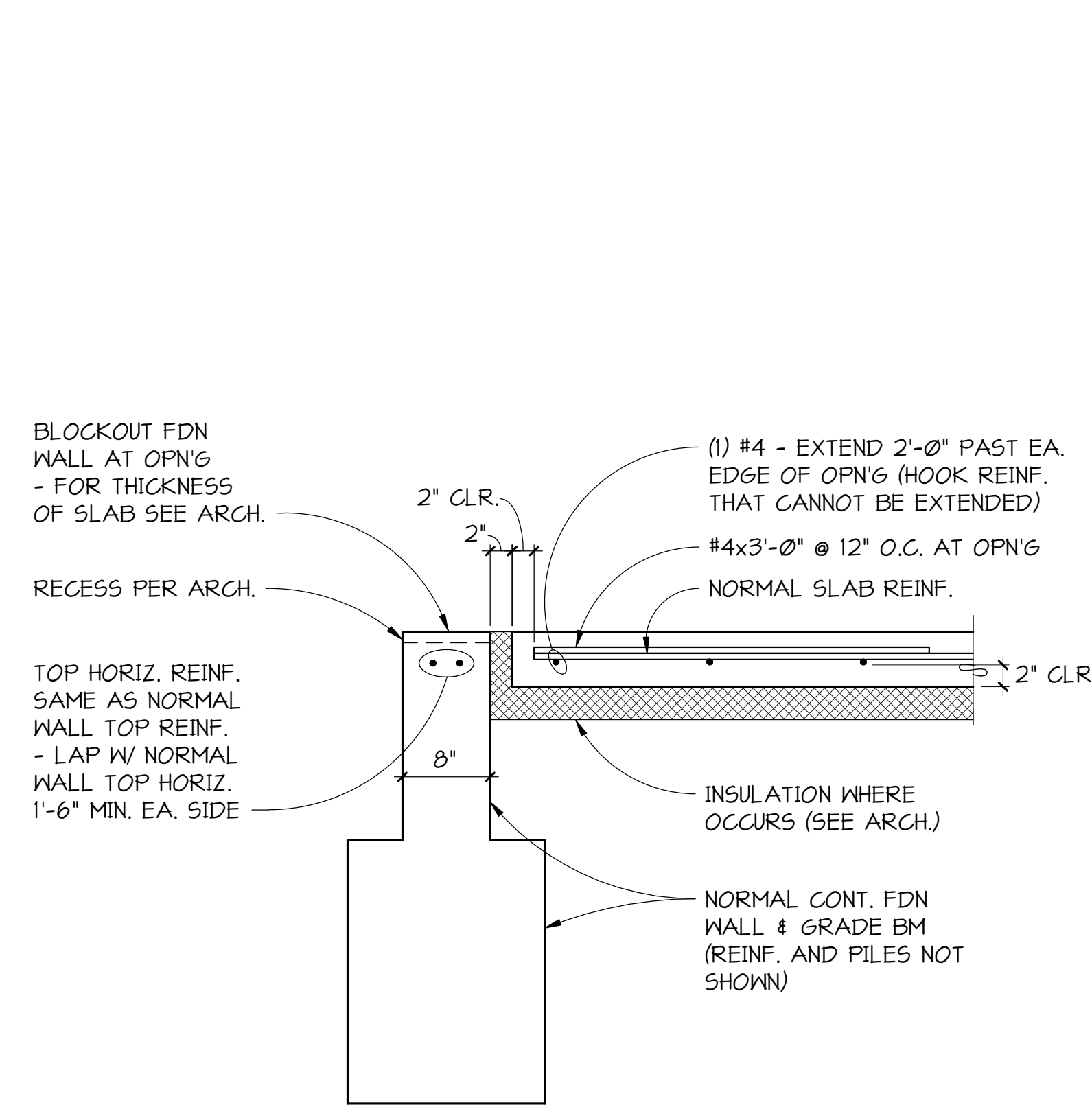
**1 SECTION**  
 5305 1" = 1'-0"



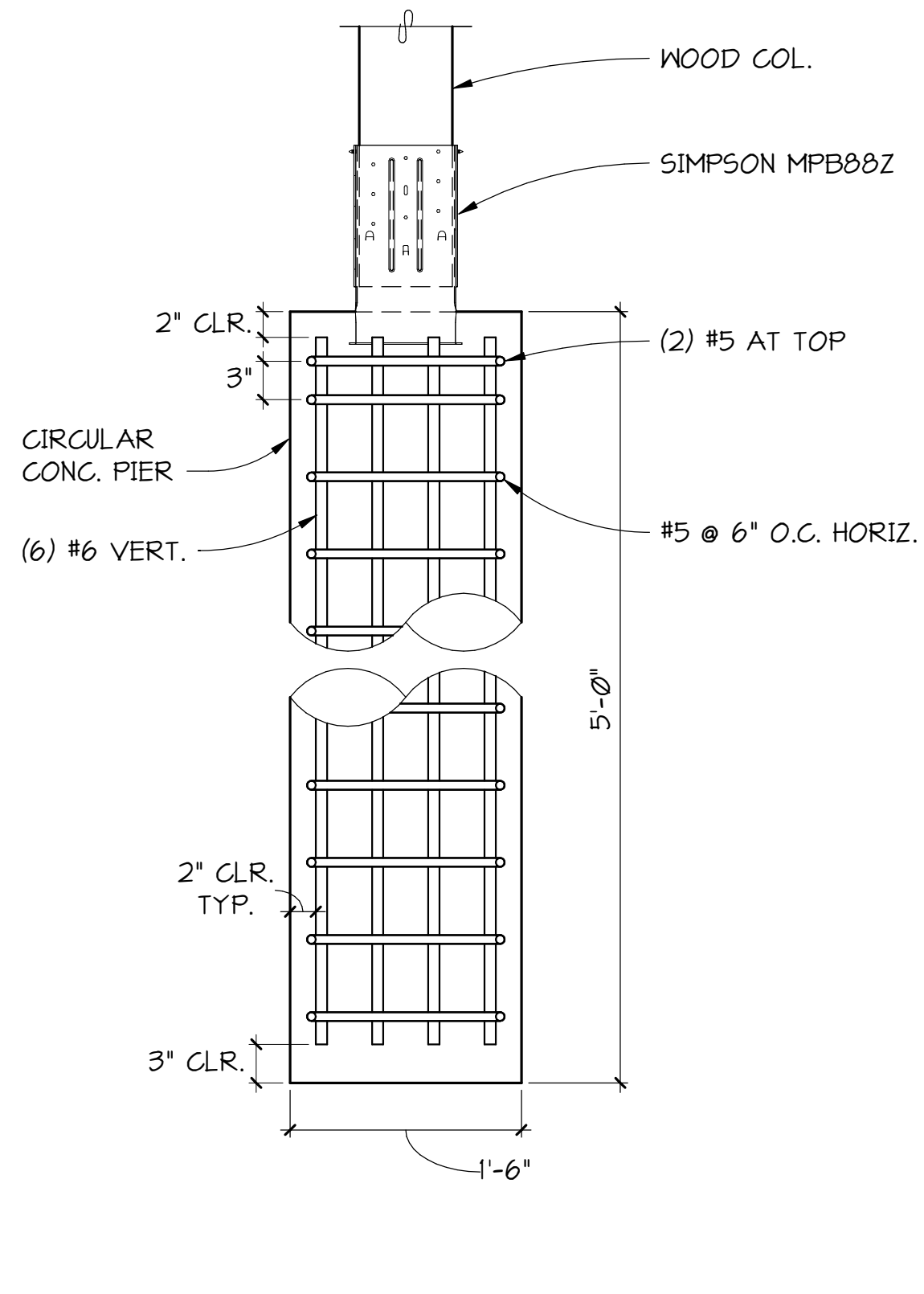
**2 SECTION**  
 5305 1" = 1'-0"



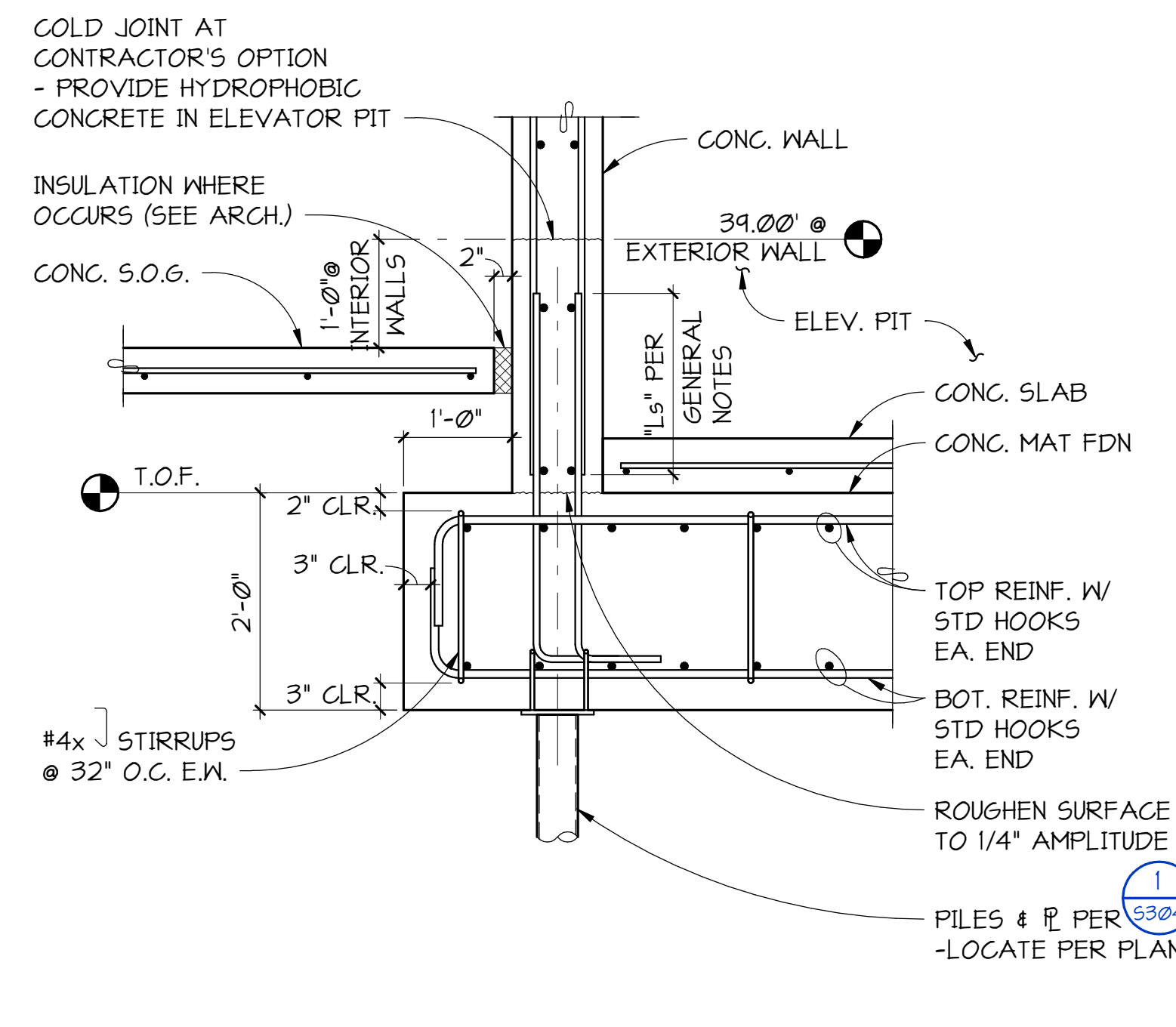
**3 SECTION**  
 5305 1" = 1'-0"



**4 SECTION**  
 5305 1" = 1'-0"



**5 DETAIL**  
 5305 NO SCALE



**6 SECTION**  
 5305 NO SCALE

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6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

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February 24, 2023

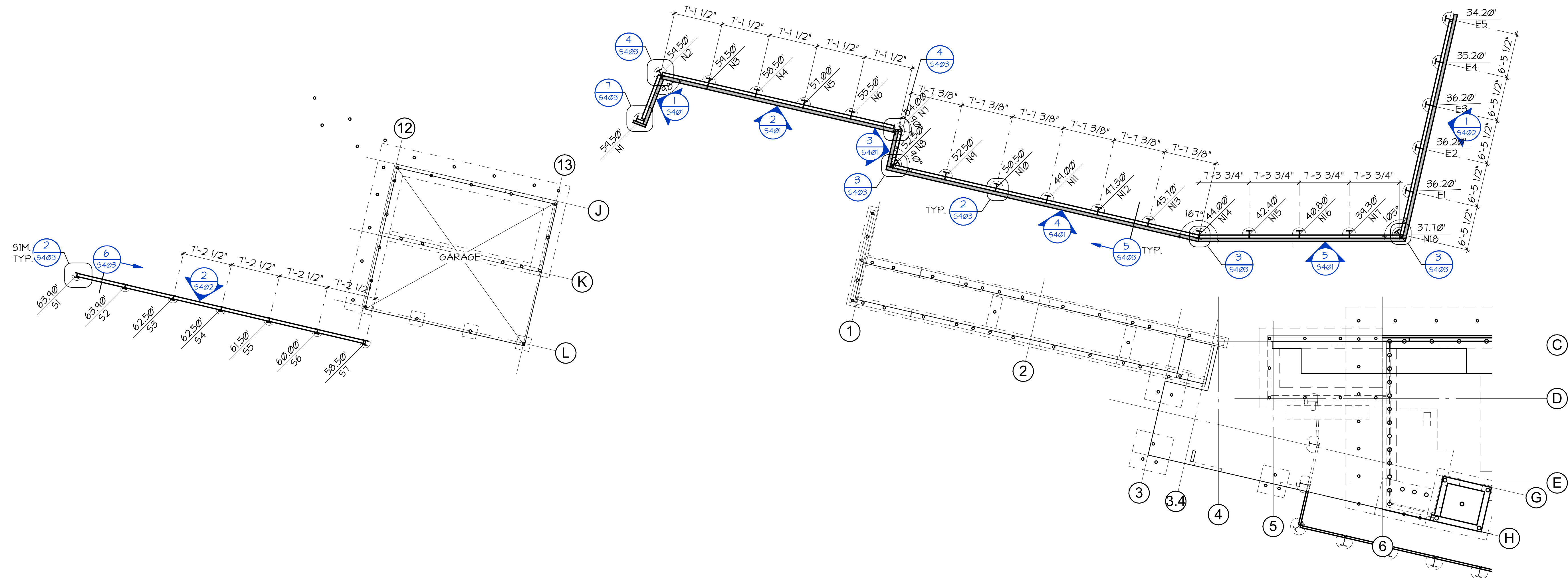
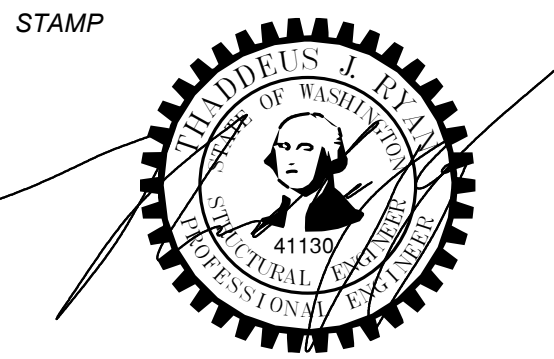
REVISIONS

No.	Description	Date

Drawn: DEH  
 Checked: TJR  
 MJH Proj No.: A20.0085.00

Issue Date: February 24, 2023

SHEET



**1** SOLDIER PILE WALL PLAN  
 1/8" = 1'-0"

- NOTES:**
- INDICATES TOP OF STEEL PILE ELEVATION FOR FABRICATION PURPOSES. ELEVATION IS RELATIVE TO FINAL GRADE.
  - INDICATES STEEL PILE TYPE. SEE SHEET S401 AND S402 FOR SCHEDULES. SEE S403 FOR DETAILS.
  - BOTTOM OF EXCAVATION ELEVATION PER CIVIL DRAWINGS.
  - SEE CIVIL AND LANDSCAPE FOR WALL DETAILS
  - HORIZONTAL LOCATION OF SOLDIER PILES PER CIVIL

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February 24, 2023

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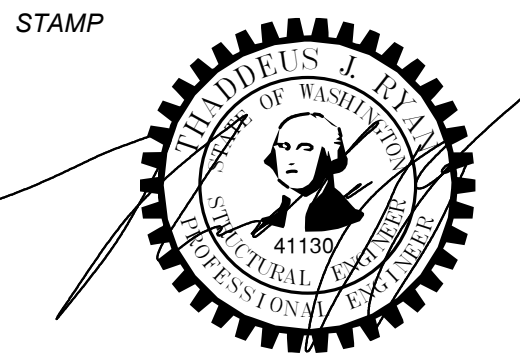
No.	Description	Date

Drawn: RSC  
 Checked: TJR  
 MJH Proj No.: A20.0085.00  
 Issue Date: February 24, 2023

SHEET  
**SOLDIER PILE WALL PLAN S400**



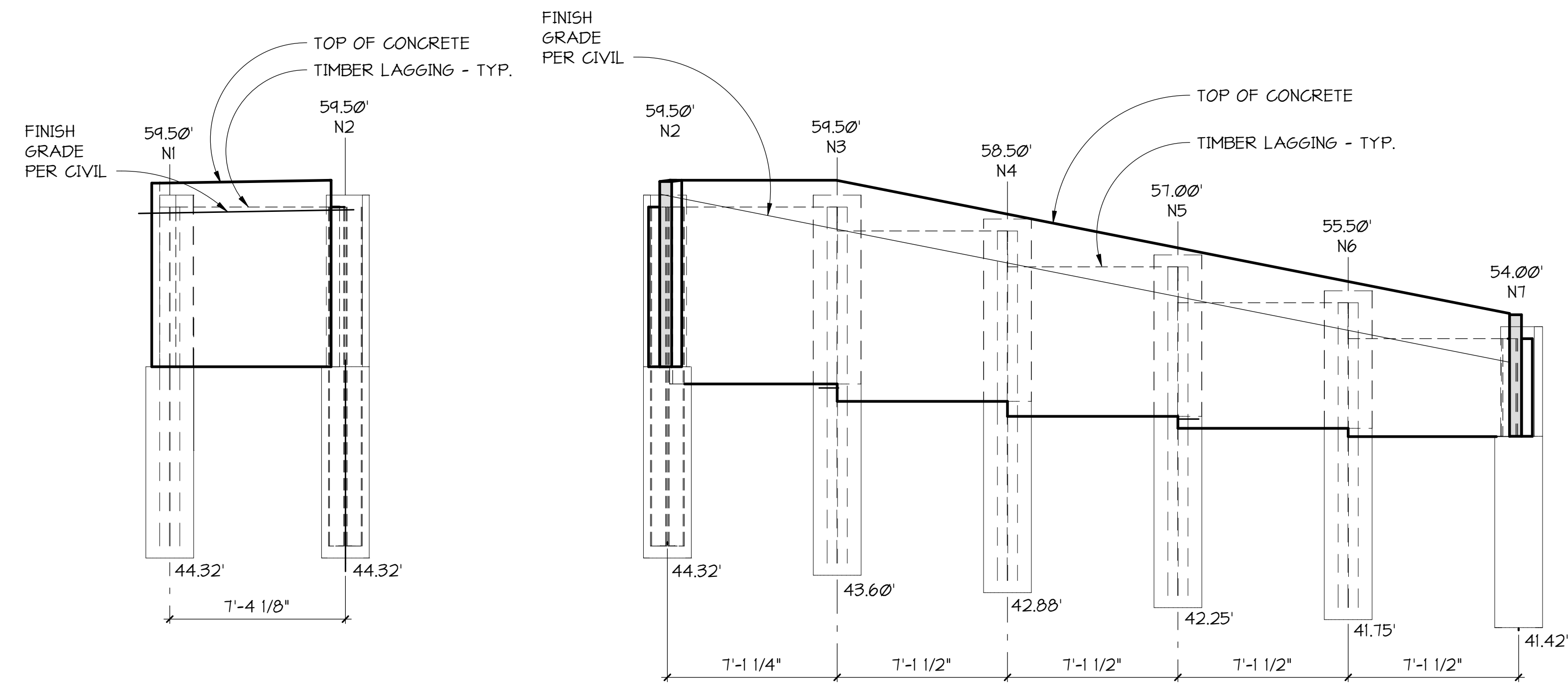
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SOLDIER PILE SCHEDULE - NORTH WALL

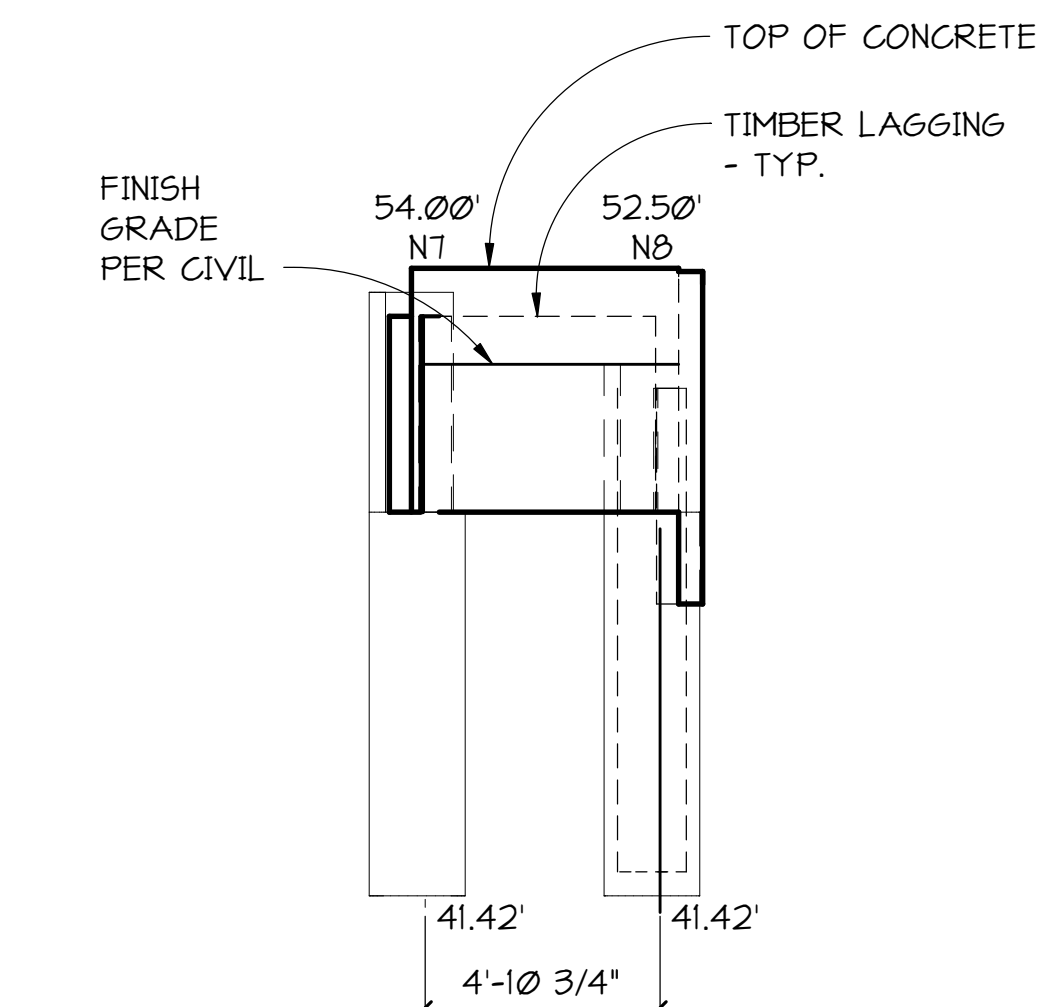
PILE #	PILE SIZE	DIAMETER	TOP OF PILE (1)	BOT. OF EXCAVATION (2)	D (FT.)	BOT. OF PILE
N1	W14x74	24"	59.50'	52.32'	8'	44.32'
N2	W14x74	24"	59.50'	51.60'	8'	43.60'
N3	W14x74	24"	58.50'	50.88'	8'	42.88'
N4	W14x74	24"	57.00'	50.25'	8'	42.25'
N5	W14x74	24"	55.50'	49.75'	8'	41.75'
N6	W14x74	24"	54.00'	49.42'	8'	41.42'
N7	W14x74	24"	52.50'	49.42'	8'	41.42'
N8	W14x74	24"	52.50'	47.50'	8'	39.50'
N9	W14x74	24"	50.50'	45.50'	8'	37.50'
N10	W14x74	24"	49.00'	43.50'	8'	35.50'
N11	W14x74	24"	47.30'	41.50'	8'	33.50'
N12	W14x74	24"	45.70'	39.50'	8'	31.50'
N13	W14x74	24"	44.00'	37.50'	8'	29.50'
N14	W14x74	24"	42.40'	36.10'	8'	28.10'
N15	W14x74	24"	40.80'	35.00'	8'	27.00'
N16	W14x74	24"	39.30'	32.80'	8'	24.80'
N17	W14x74	24"	37.70'	31.10'	8'	23.10'

(1) CONTRACTOR TO VERIFY TOP OF PILE ELEVATION WITH CIVIL DRAWINGS.  
(2) CONTRACTOR TO VERIFY BOTTOM OF EXCAVATION WITH BUILDING FOUNDATION PLANS AND DETAILS.

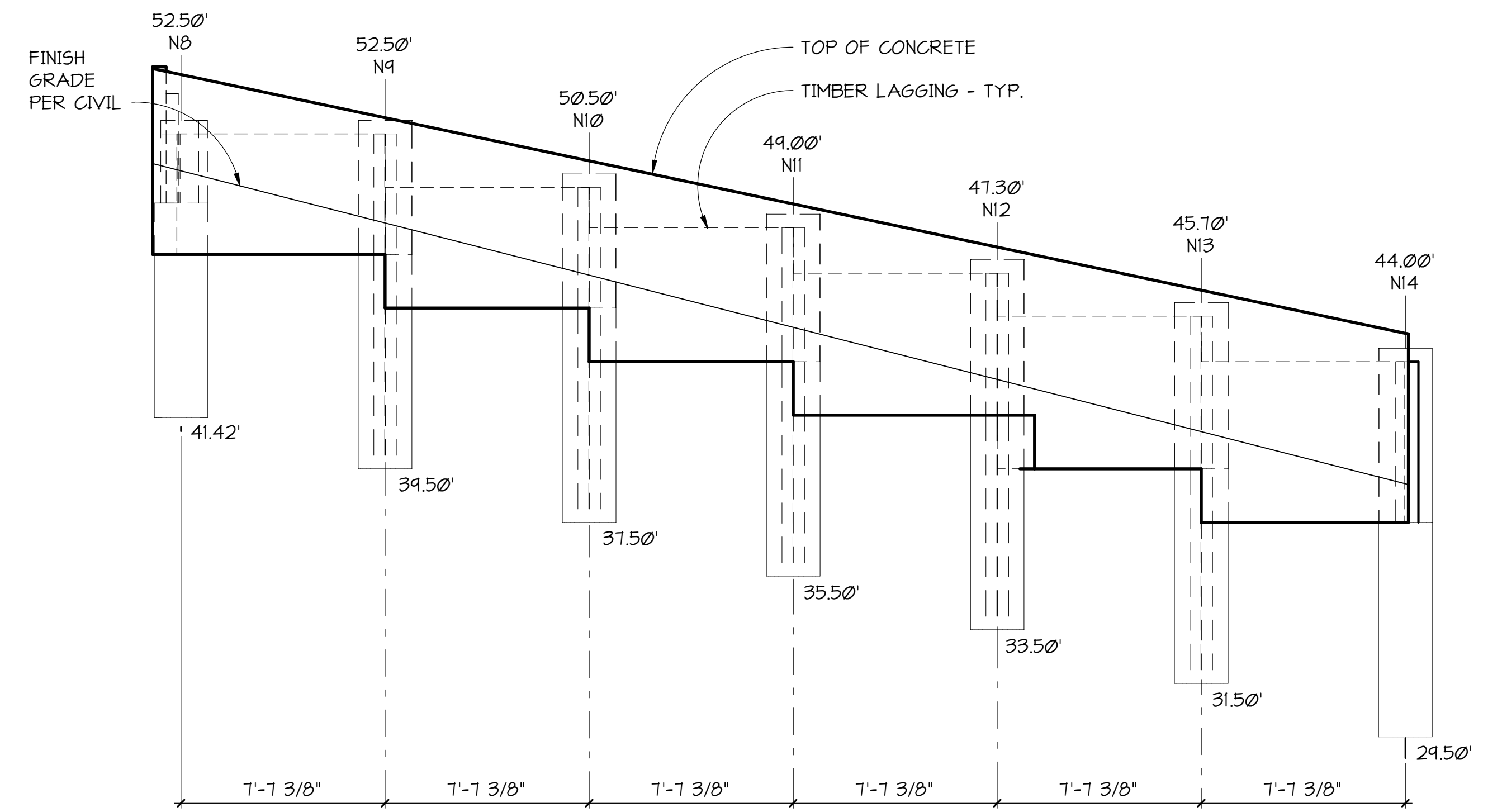


1 NORTH WALL ELEVATION  
5/4" 1/4" = 1'-0"

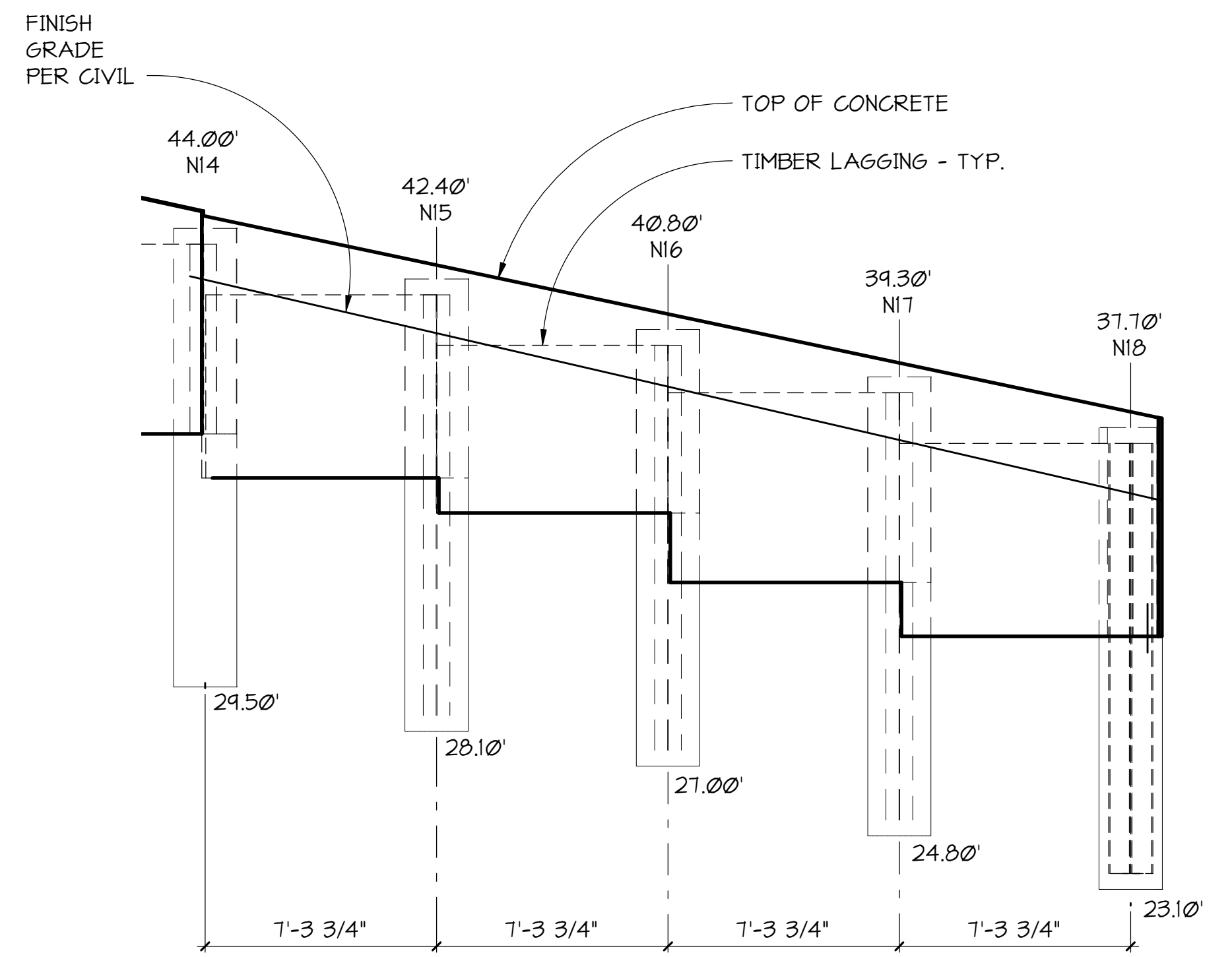
2 NORTH WALL ELEVATION  
5/4" 1/4" = 1'-0"



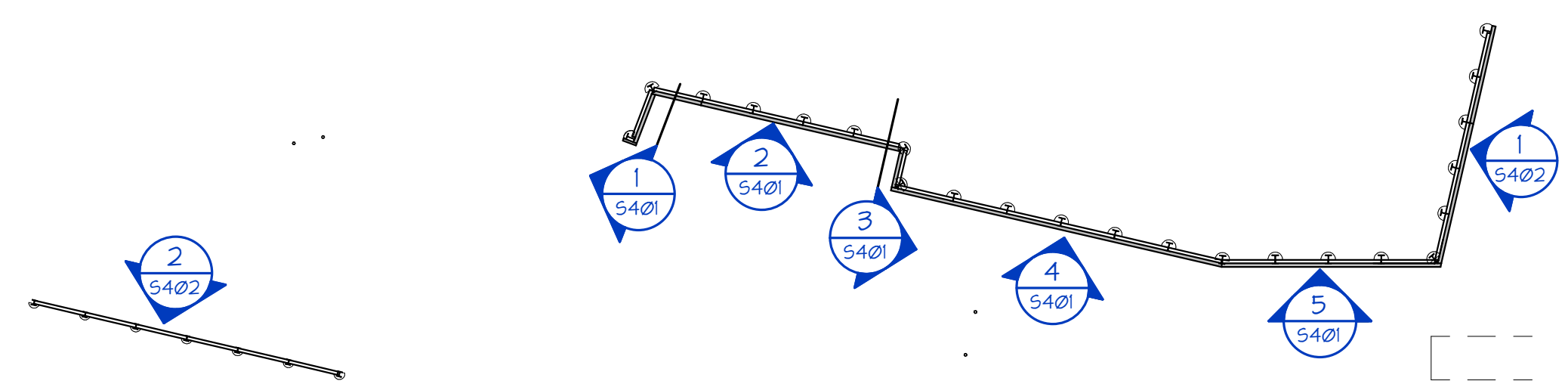
3 NORTH WALL ELEVATION  
5/4" 1/4" = 1'-0"



4 NORTH WALL ELEVATION  
5/4" 1/4" = 1'-0"



5 NORTH WALL ELEVATION  
5/4" 1/4" = 1'-0"



6 SOLDIER PILE WALL KEY PLAN  
5/4" 1" = 20'-0"

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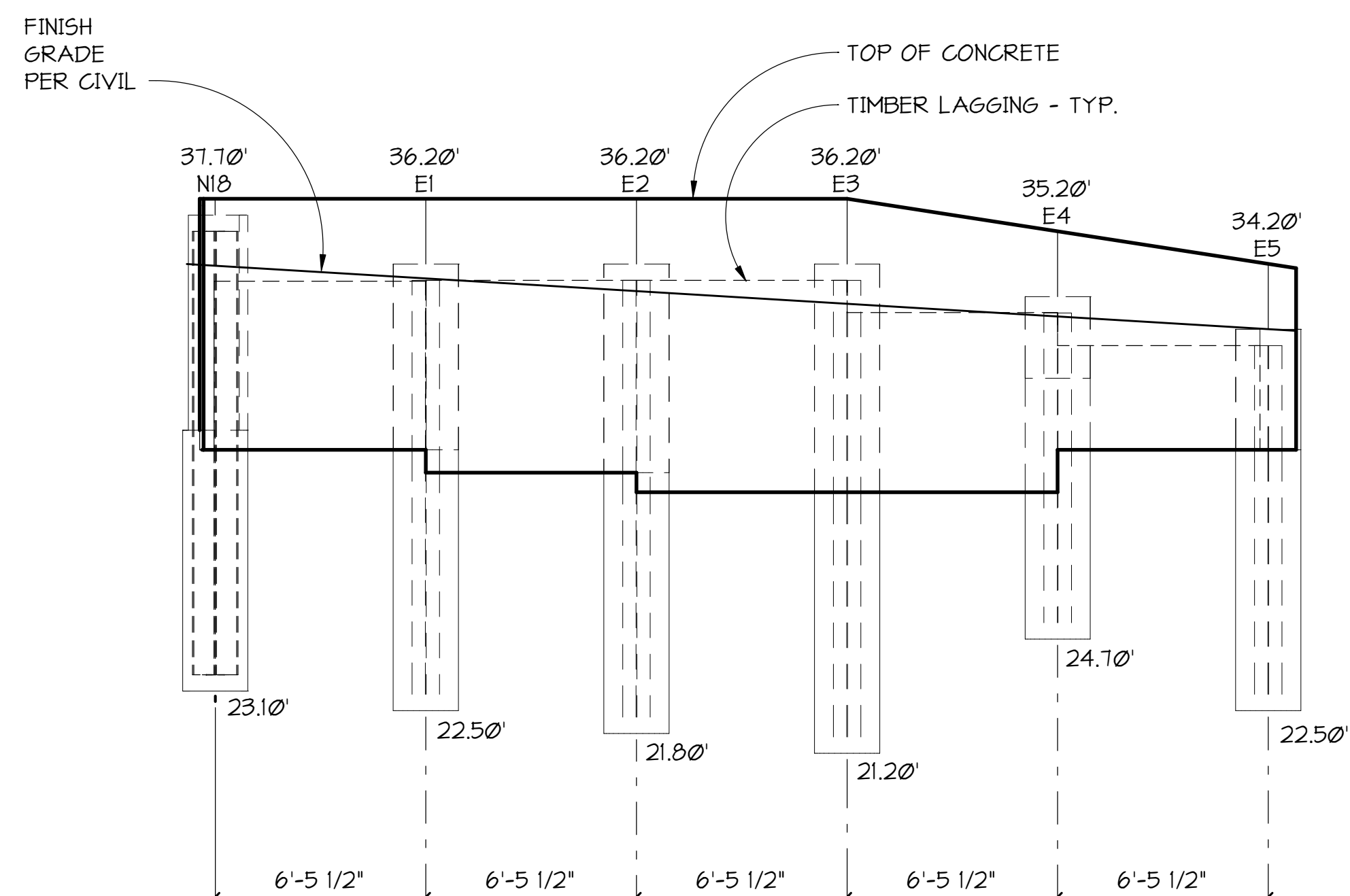
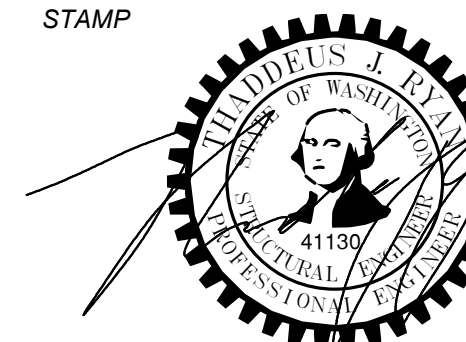
No.	Description	Date

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Issue Date: February 24, 2023

SHEET

**SHORING WALL ELEVATIONS S401**

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**1 EAST WALL ELEVATION**

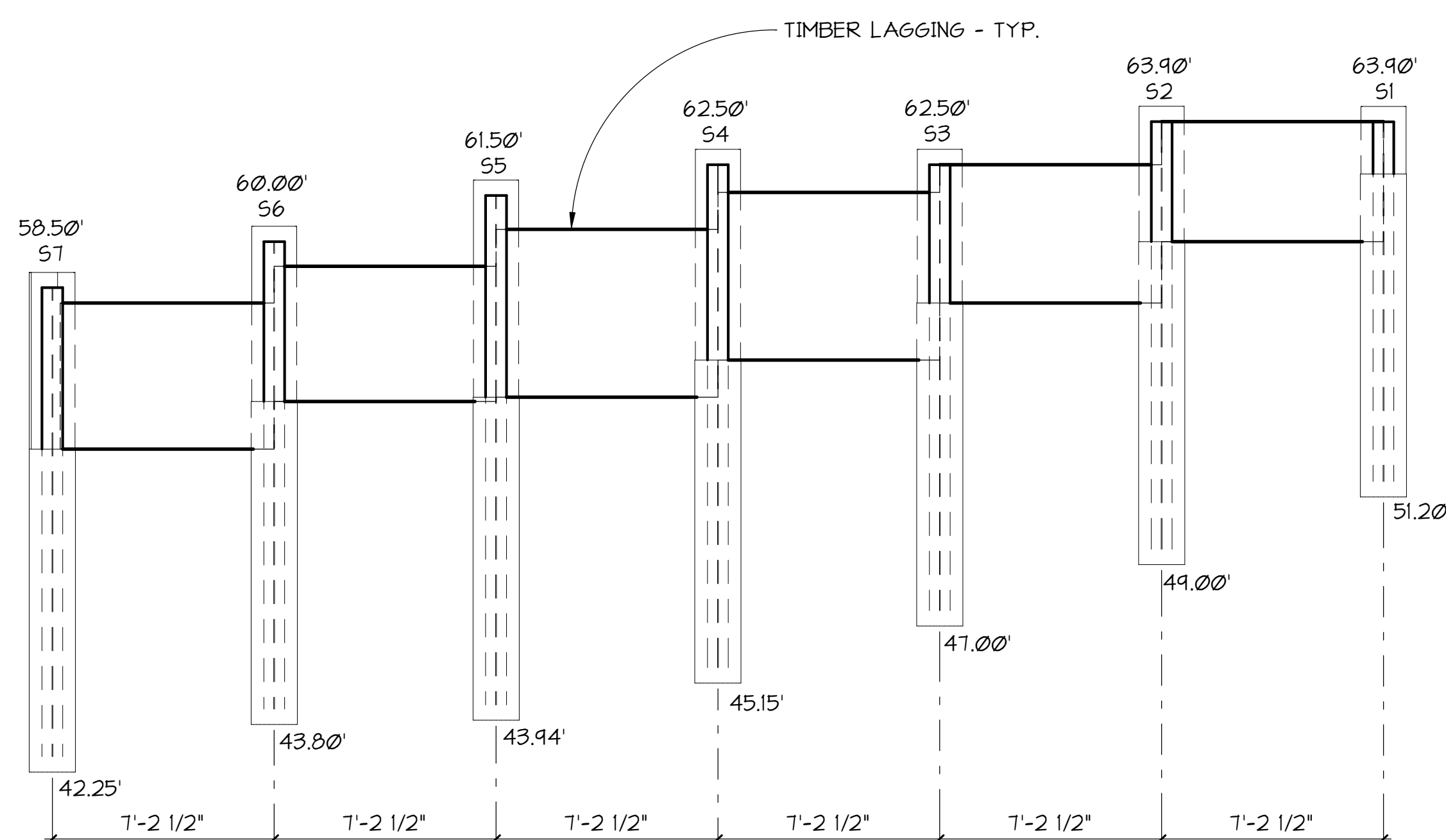
5402 1/4" = 1'-0"

**SOLDIER PILE SCHEDULE - EAST WALL**

PILE #	PILE SIZE	DIAMETER	TOP OF PILE (1)	BOT. OF EXCAVATION (2)	D (FT.)	BOT. OF PILE
E1	W14x74	24"	36.20'	30.50'	8'	22.50'
E2	W14x74	24"	36.20'	29.80'	8'	21.80'
E3	W14x74	24"	36.20'	29.20'	8'	21.20'
E4	W14x74	24"	35.20'	32.70'	8'	24.70'
E5	W14x74	24"	34.20'	30.50'	8'	22.50'

(1) CONTRACTOR TO VERIFY TOP OF PILE ELEVATION WITH CIVIL DRAWINGS.

(2) CONTRACTOR TO VERIFY BOTTOM OF EXCAVATION WITH BUILDING FOUNDATION PLANS AND DETAILS.



**2 SOUTH WALL ELEVATION**

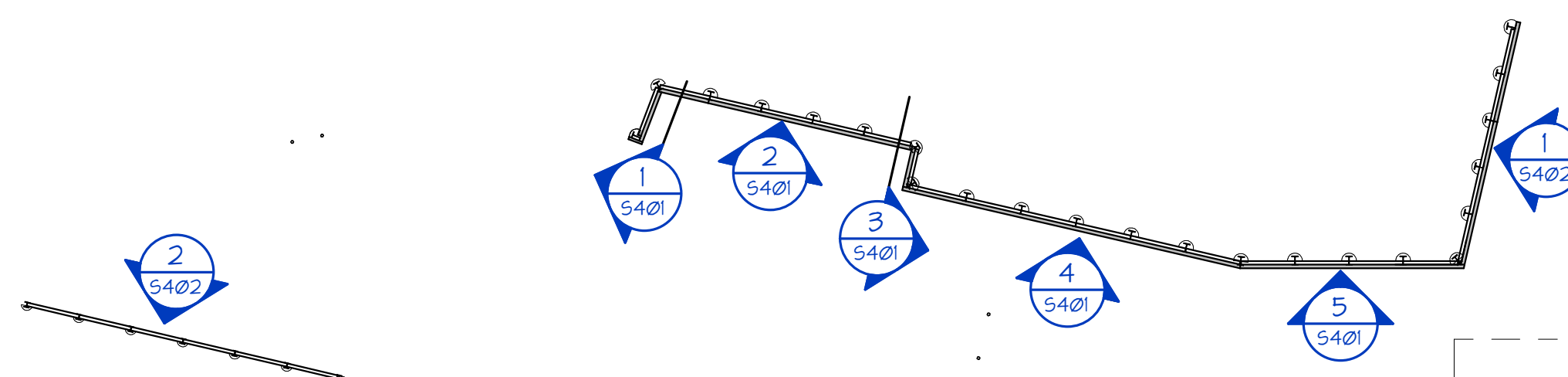
5402 1/4" = 1'-0"

**SOLDIER PILE SCHEDULE - SOUTH WALL**

PILE #	PILE SIZE	DIAMETER	TOP OF PILE (1)	BOT. OF EXCAVATION (2)	D (FT.)	BOT. OF PILE
S1	W8x48	18"	63.90'	61.70'	10.5'	51.20'
S2	W8x48	18"	63.90'	59.50'	10.5'	49.00'
S3	W8x48	18"	62.50'	57.50'	10.5'	47.00'
S4	W8x48	18"	62.50'	55.65'	10.5'	45.15'
S5	W8x48	18"	61.50'	54.44'	10.5'	43.94'
S6	W8x48	18"	60.00'	54.30'	10.5'	43.80'
S7	W8x48	18"	58.50'	52.75'	10.5'	42.25'

(1) CONTRACTOR TO VERIFY TOP OF PILE ELEVATION WITH CIVIL DRAWINGS.

(2) CONTRACTOR TO VERIFY BOTTOM OF EXCAVATION WITH BUILDING FOUNDATION PLANS AND DETAILS.



**3 SOLDIER PILE WALL KEY PLAN**

5402 1" = 20'-0"

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6838 96TH AVE SE  
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February 24, 2023

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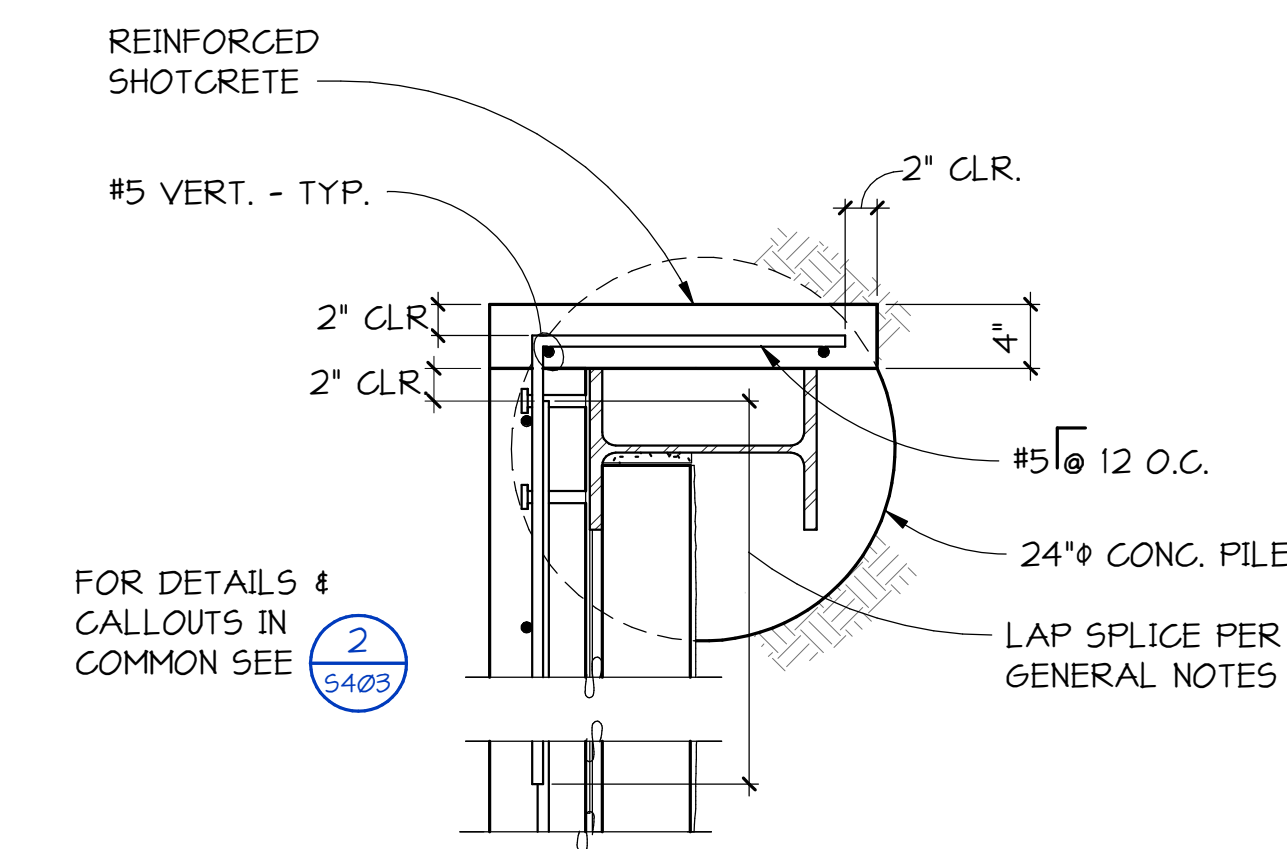
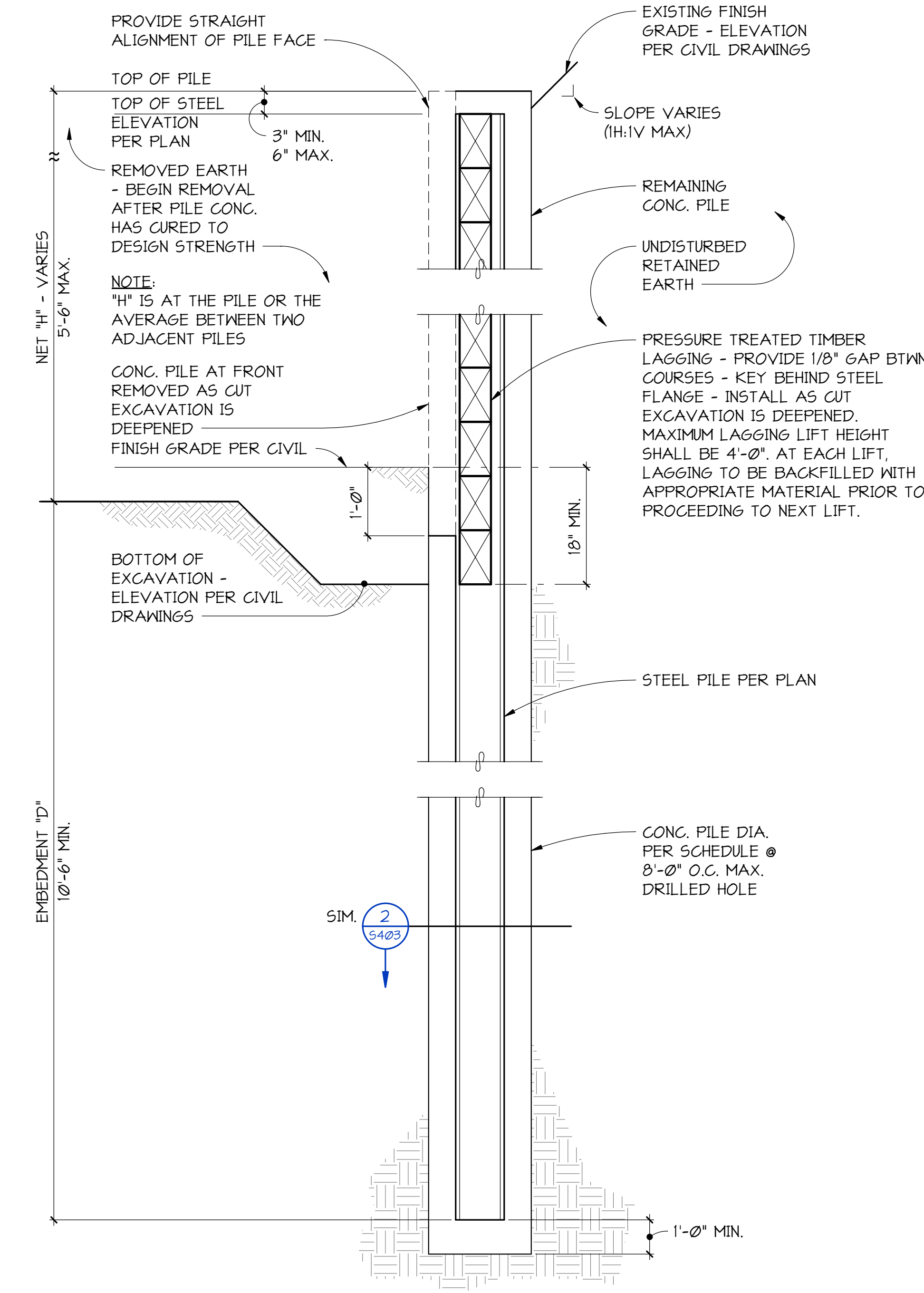
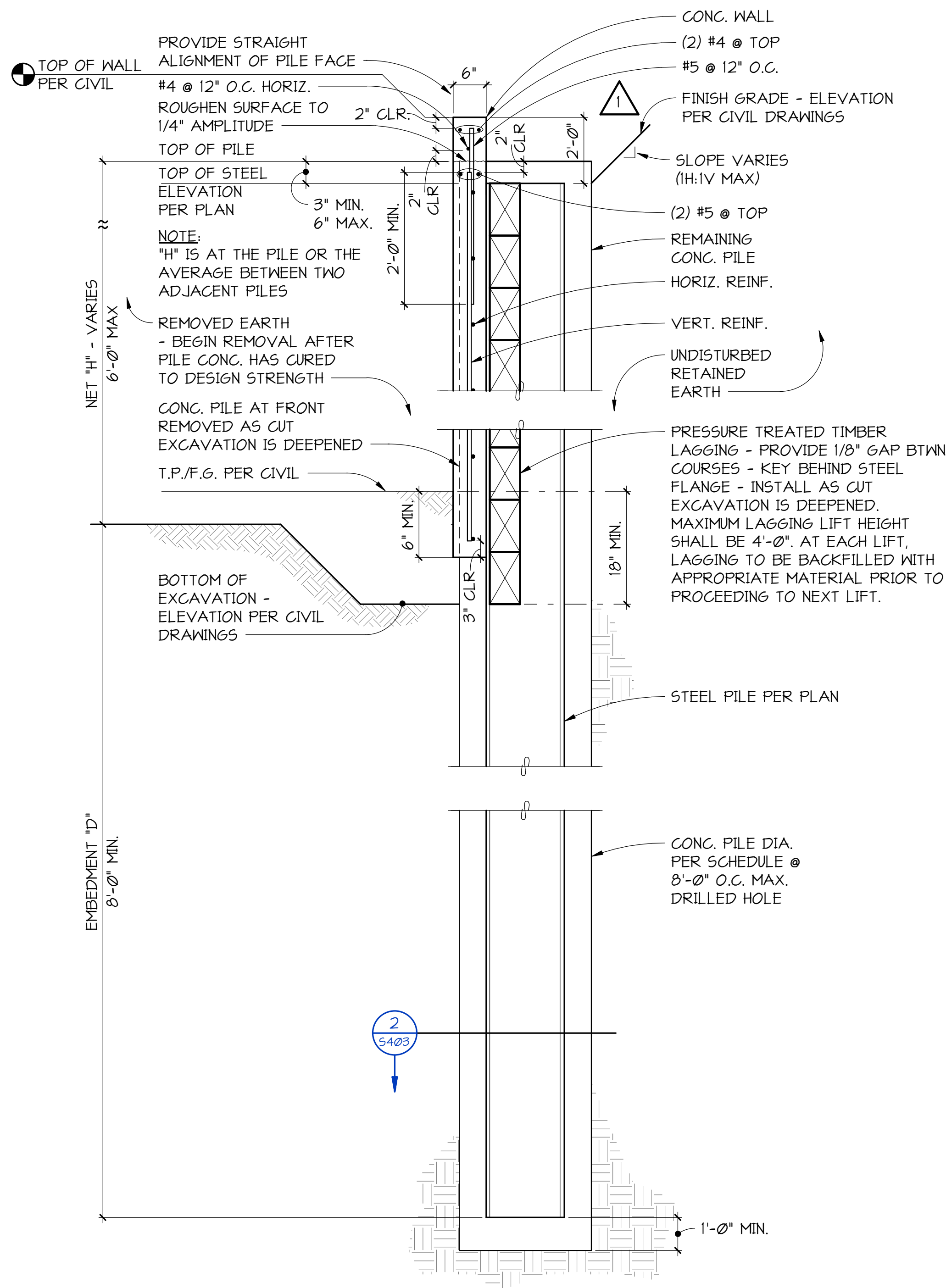
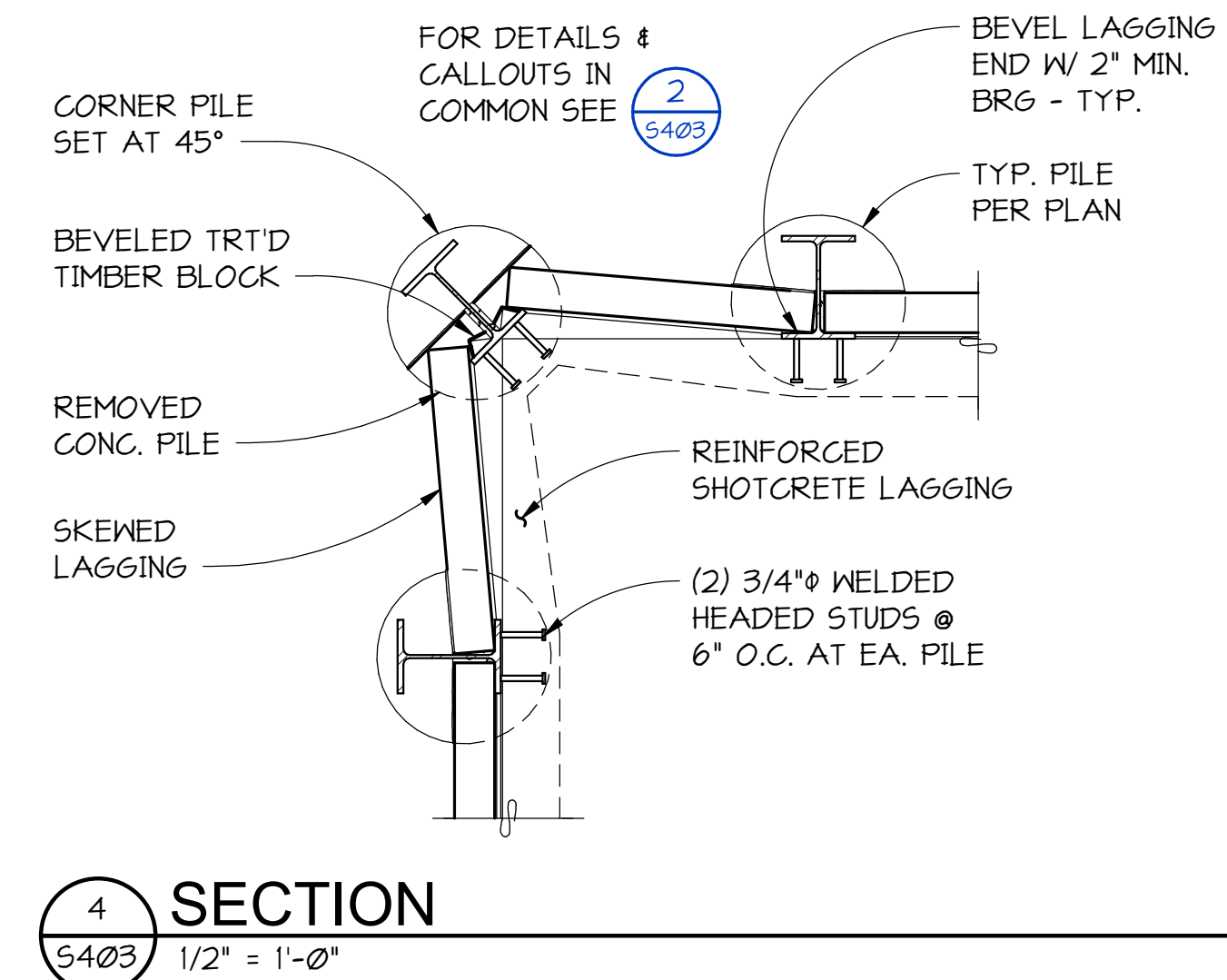
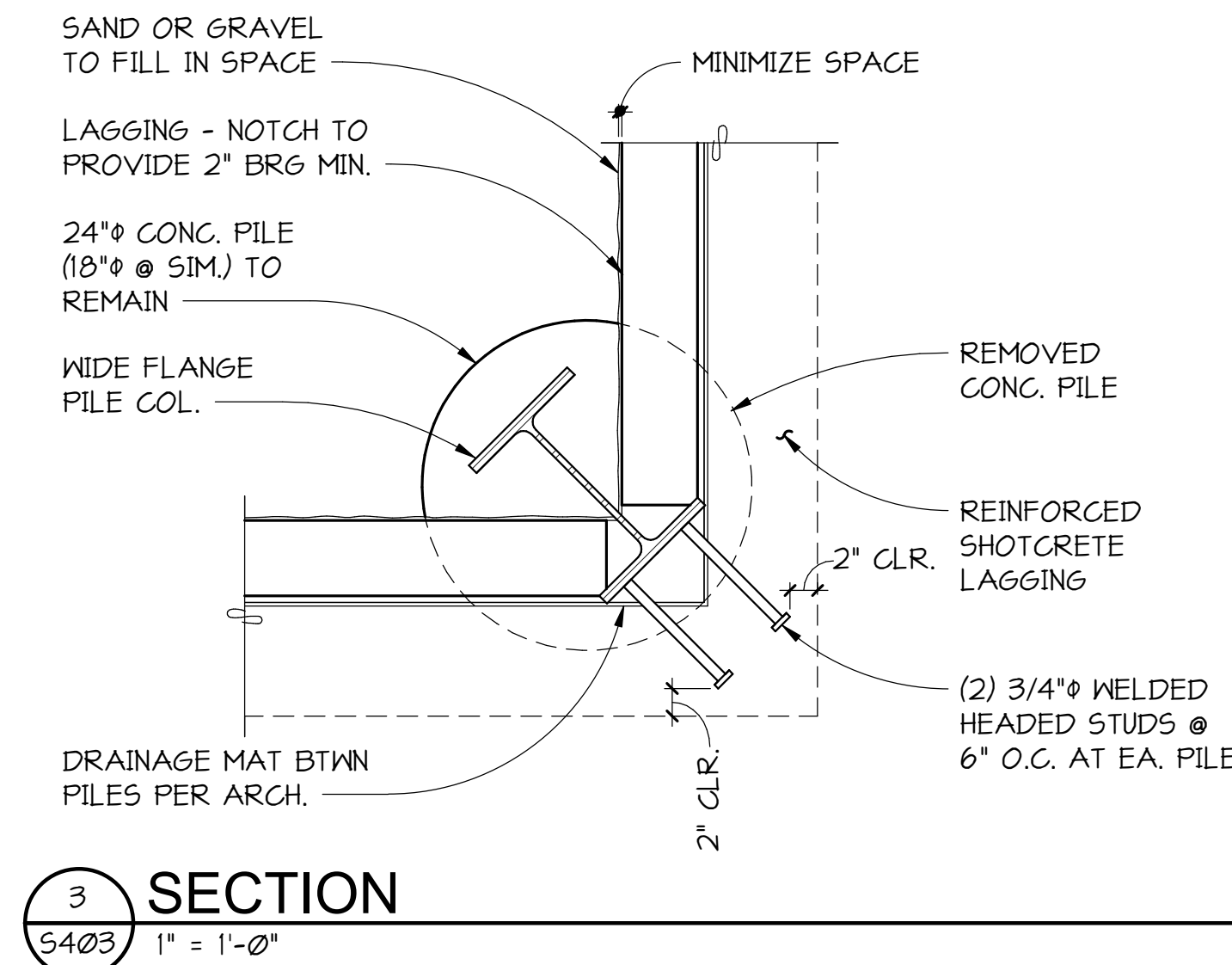
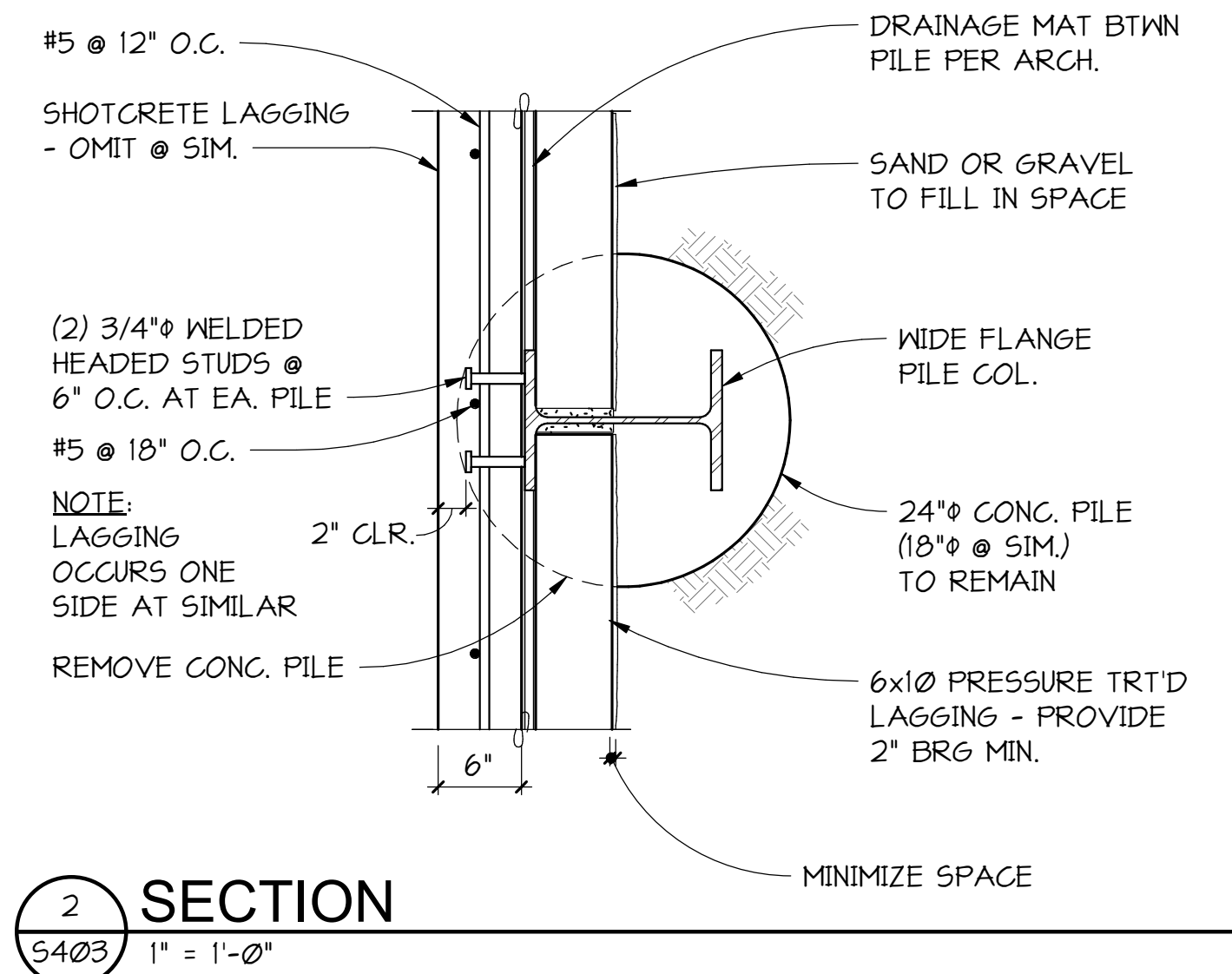
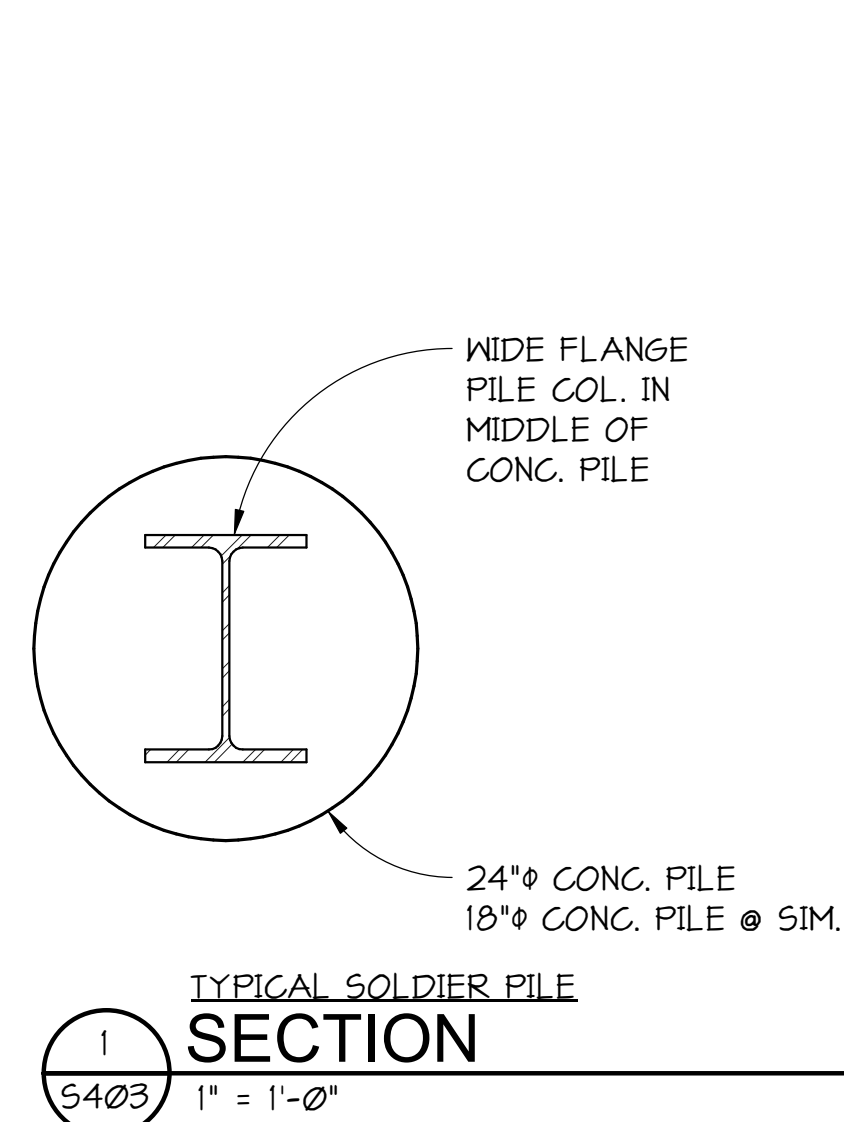
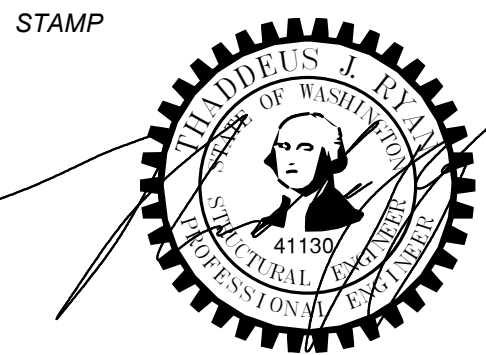
No. Description Date

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**SHORING WALL ELEVATIONS**  
**S402**



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February 24, 2023

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No.	Description	Date
1	BUILDING PERMIT RESUBMITTAL	10/27/22

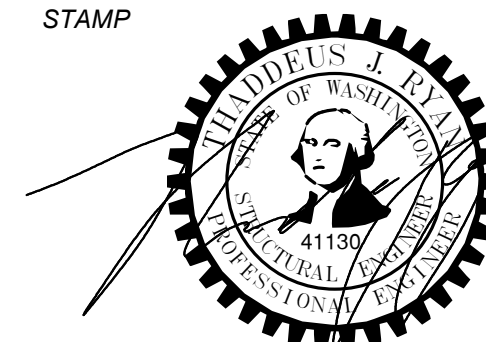
Drawn: SMS  
 Checked: TJR  
 MJH Proj No.: A20.0085.00

Issue Date: February 24, 2023

SHEET

**SHORING DETAILS S403**

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**NOTES:**

- INDICATES TOP OF PILE ELEVATION FOR FABRICATION PURPOSES.
- INDICATES STEEL PILE TYPE. SEE SHEET S410 FOR SCHEDULES AND ELEVATIONS. SEE S411 FOR DETAILS.
- BOTTOM OF EXCAVATION ELEVATION TO MATCH BOTTOM OF BUILDING FOUNDATION.
- SEE CIVIL AND LANDSCAPE FOR WALL DETAILS
- HORIZONTAL LOCATION OF SOLDIER PILES PER CIVIL

**SOLDIER PILE SCHEDULE - TEMPORARY WALL**

PILE #	PILE SIZE	DIAMETER	TOP OF PILE (1)	BOT. OF EXCAVATION (2)	D (FT.)	BOT. OF PILE
T1	W18x50	30"	30.75'	22.66'	13.00'	9.66'
T2	W18x119	30"	34.80'	22.66'	17.50'	5.16'
T3	W18x119	30"	34.80'	22.16'	17.50'	4.66'
T4	W18x119	30"	34.80'	22.16'	17.50'	4.66'
T5	W18x119	30"	33.50'	22.16'	17.50'	4.66'
T6	W18x119	30"	32.30'	22.16'	17.50'	4.66'
T7	W18x119	30"	31.20'	22.16'	17.50'	4.66'
T8	W18x50	30"	30.10'	25.10'	13.00'	12.10'
T9	W18x50	30"	29.10'	28.10'	13.00'	15.10'
T10	W18x50	30"	26.70'	22.66'	13.00'	9.66'

**NOTE:**

- CONTRACTOR TO VERIFY TOP OF PILE ELEVATION WITH CIVIL DRAWINGS AND ALLOWABLE TEMPORARY SITE SLOPE.
- CONTRACTOR TO VERIFY BOTTOM OF EXCAVATION WITH FOUNDATION PLANS AND DETAILS.

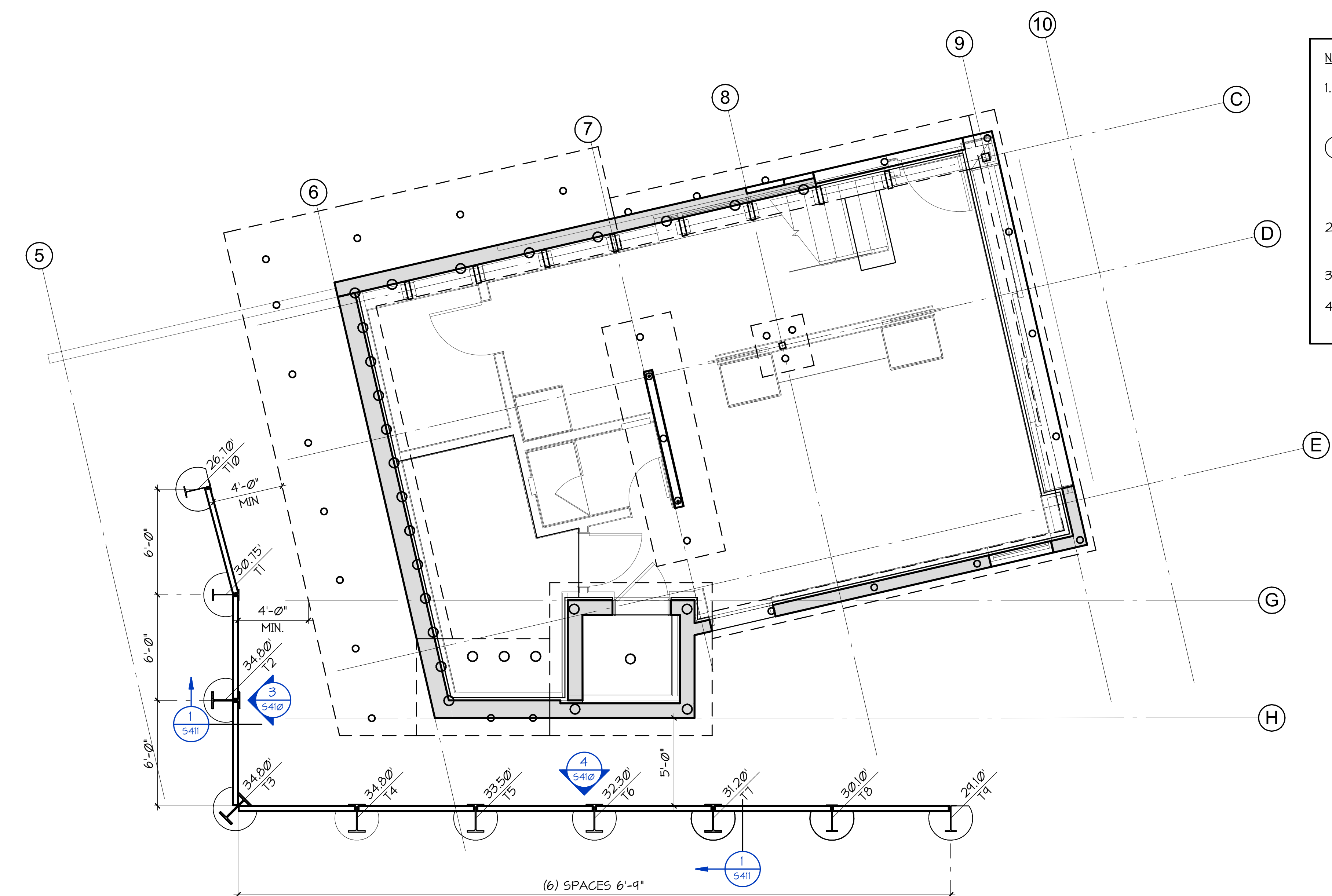
**2** TEMPORARY SHORING PILE SCHEDULE  
 5410 1" = 1'-0"

**SUPPLEMENTAL TEMPORARY SOLDIER PILE WALL GENERAL NOTES**

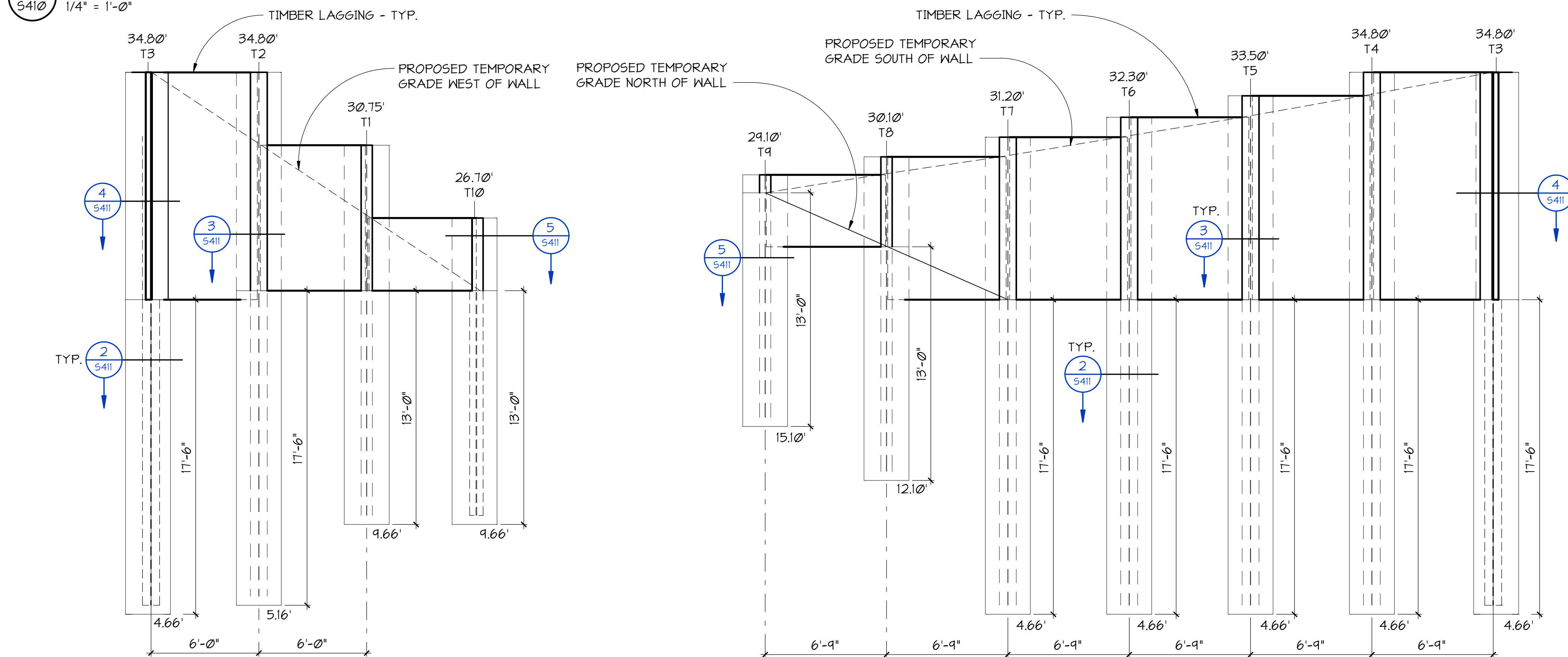
**WOOD LAGGING:** HEM-FIR NO. 1 OR DOUGLAS FIR/LARCH NO. 2 OR BETTER GRADE. PRESSURE TREAT WITH CA-C, CCA, AQC OR ACZA, WITH 0.20 PCF MIN. RETENTION WITH APPROPRIATE INCISING. CONFORM TO 1999 APWA STANDARD C2. INSTALL LAGGING UNIFORMLY AND CONSISTENTLY HORIZONTAL. PROVIDE SINGLE FULL SPAN PIECES BETWEEN PILES. KEY EACH MEMBER BEHIND STEEL PILE FLANGES AS DETAILED. FIELD TREAT CUTS AND HOLES WITH COPPER NAPHTHENATE (9% SOLUTION), APPLIED LIBERALLY WITH 2 COATS.

**SOLDIER PILES:** ALL SOLDIER PILES SITUATED WITHIN FOUR VERTICAL FEET OR LESS OF THE ESTABLISHED GRADE SHALL BE REMOVED AT OR PRIOR TO COMPLETION OF CONSTRUCTION.

FOR THE DESIGN OF THIS WALL, THE MEANING OF TEMPORARY IS ONLY IN REFERENCE TO THE WALL RETAINING EARTH PRIOR TO THE INSTALLATION OF THE ADJACENT BUILDING WALL, WHICH WILL SERVE AS THE PERMANENT EARTH RETENTION MECHANISM ONCE IT IS IN PLACE. THE DESIGN OF THE TEMPORARY SOLDIER PILE WALL DOES NOT IMPLY ANY OTHER PORTION OF THE STRUCTURE HAS BEEN DESIGNED FOR TEMPORARY CONDITIONS. ALL OTHER PORTIONS OF THE STRUCTURE HAVE BEEN DESIGNED TO RESIST CODE SPECIFIED VERTICAL AND LATERAL FORCES AFTER THE CONSTRUCTION OF ALL STRUCTURAL ELEMENTS HAS BEEN COMPLETED. STABILITY OF THE STRUCTURE PRIOR TO COMPLETION IS THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR PER THE STRUCTURAL GENERAL NOTES.



**1** TEMPORARY SHORING PILE WALL PLAN  
 5410 1/4" = 1'-0"



**3** WALL ELEVATION  
 5410 1/4" = 1'-0"

**4** WALL ELEVATION  
 5410 1/4" = 1'-0"

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6838 96TH AVE SE  
 MERCER ISLAND, WA 98040  
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February 24, 2023

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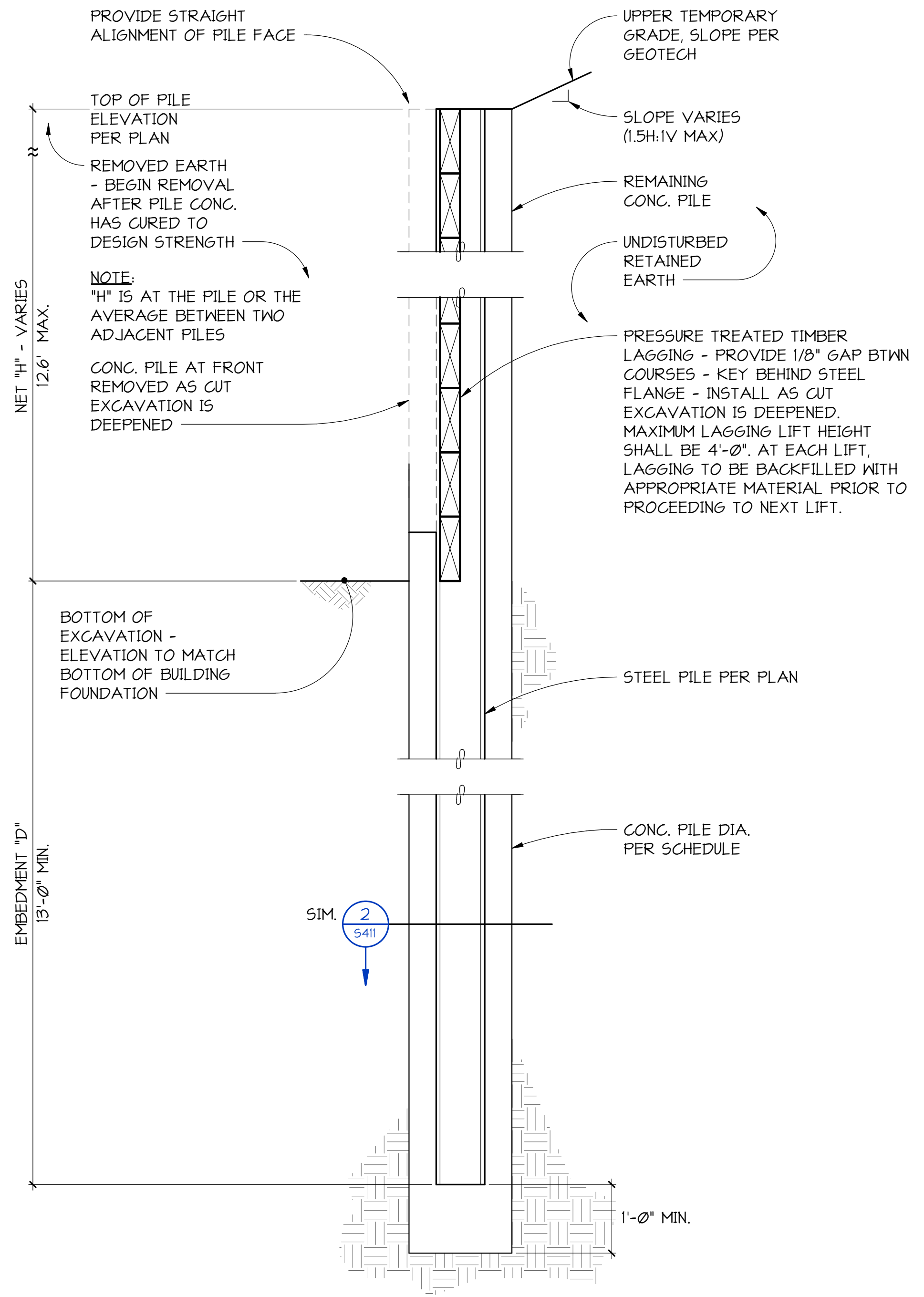
No.	Description	Date
2	BUILDING PERMIT RESUBMITTAL 2	1/6/23

Drawn: DEH  
 Checked: TJR  
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 Issue Date: February 24, 2023

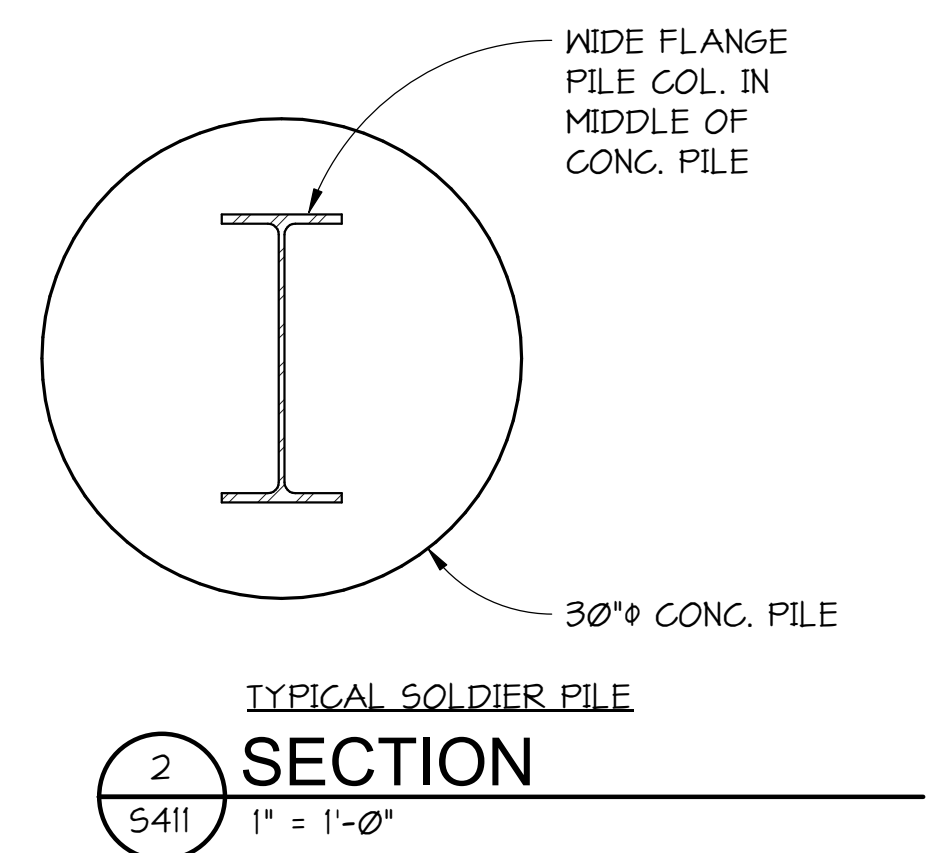
**2** SHEET  
**TEMPORARY SHORING WALL PLANS & ELEVATIONS S410**

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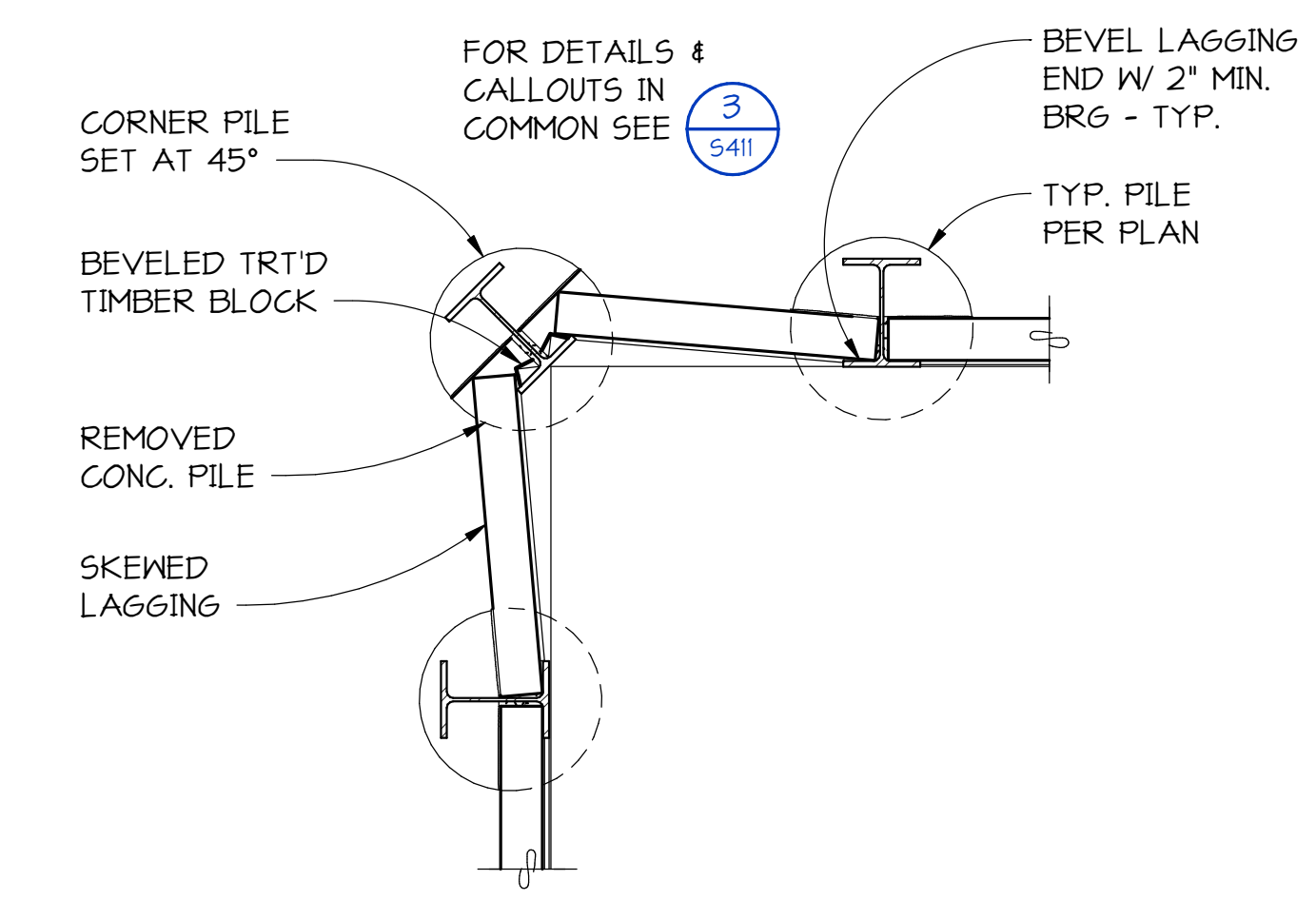
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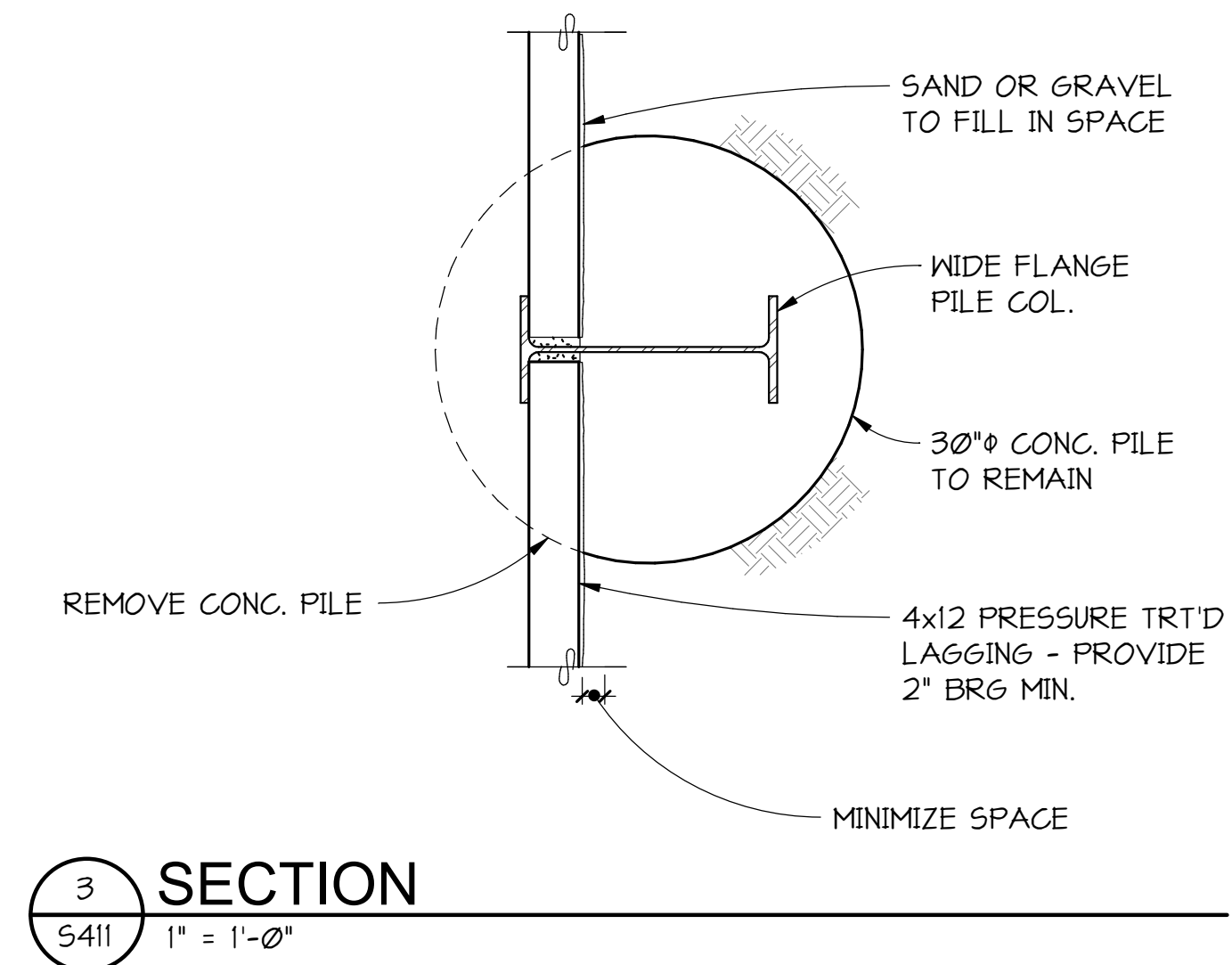
**1 SECTION**  
5411 NO SCALE



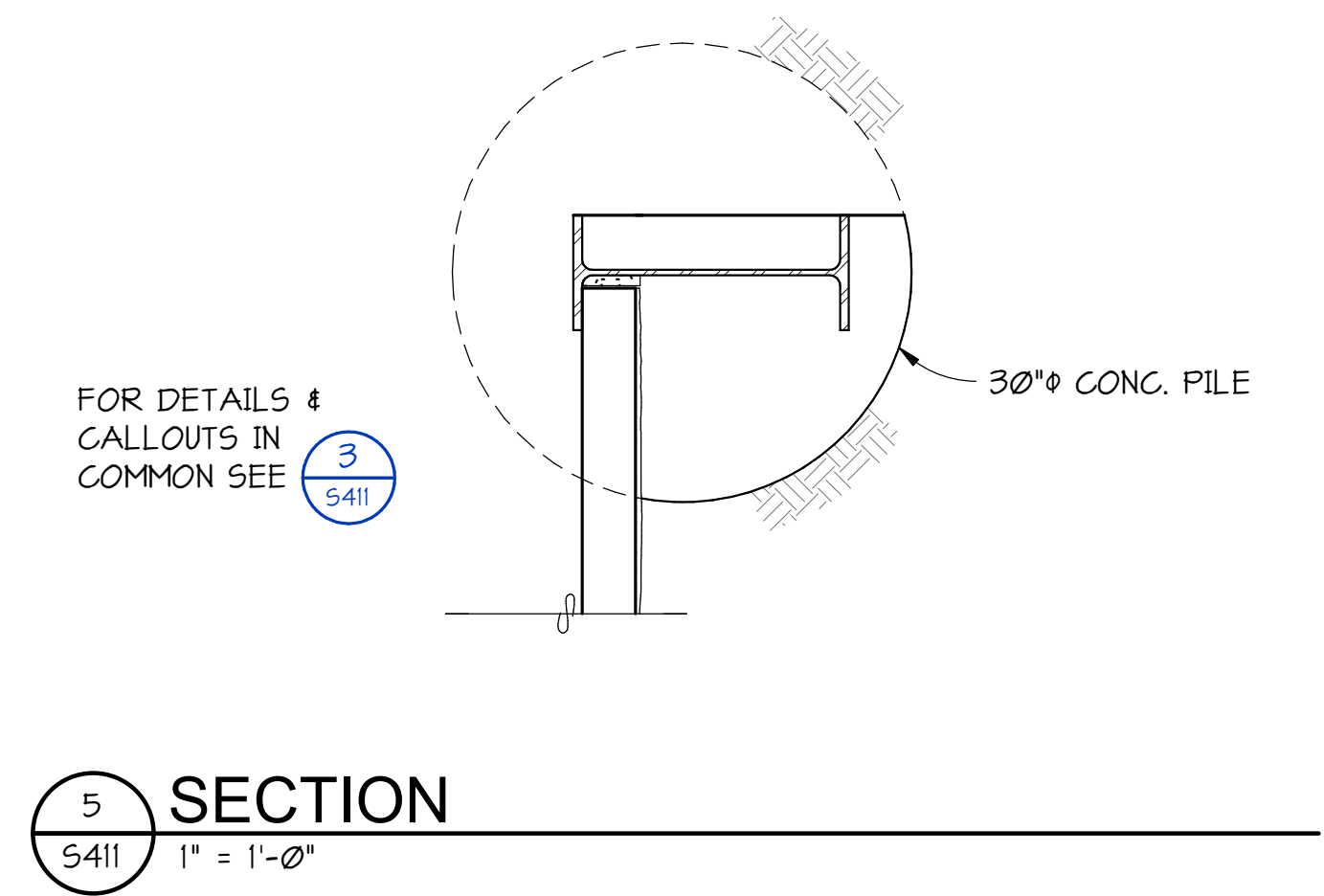
**2 SECTION**  
5411 1" = 1'-0"



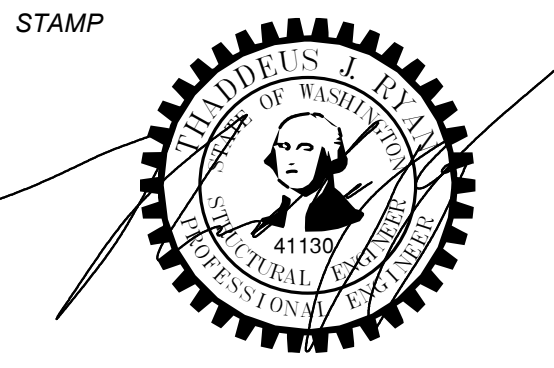
**4 SECTION**  
5411 1/2" = 1'-0"



**3 SECTION**  
5411 1" = 1'-0"



**5 SECTION**  
5411 1" = 1'-0"



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SHEET



**TEMPORARY SHORING WALL DETAILS**  
**S411**

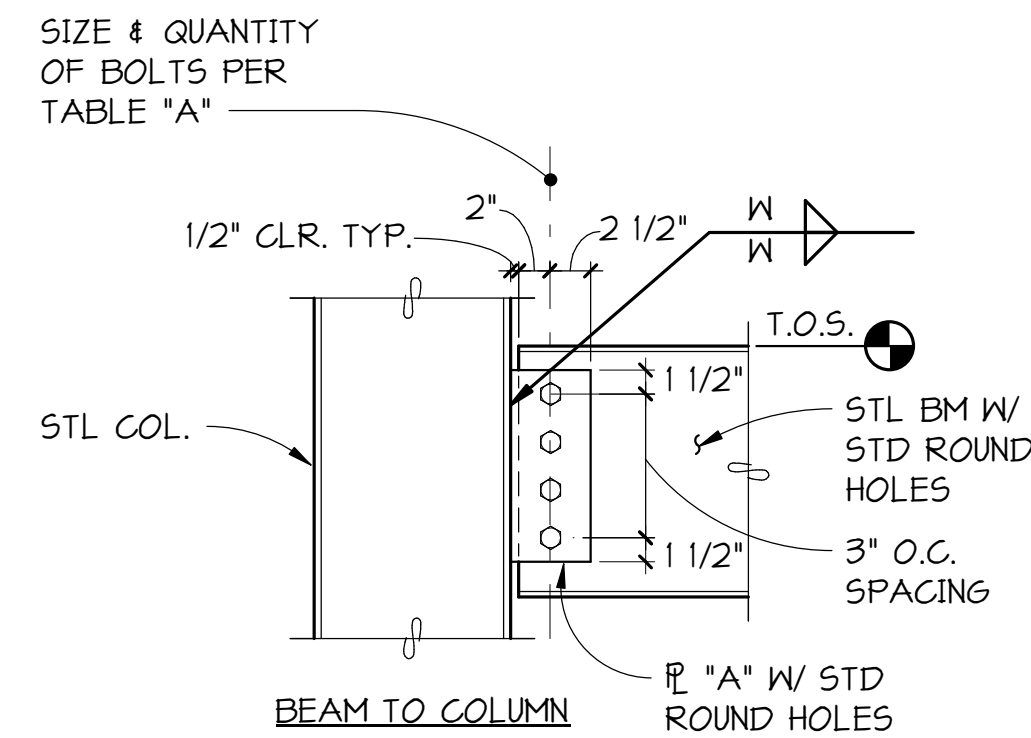
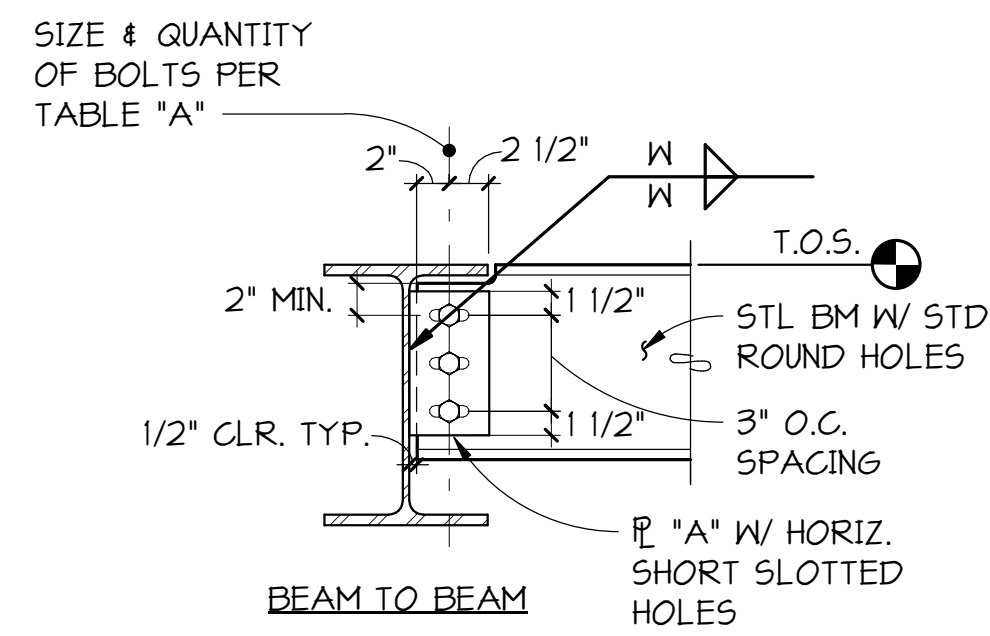
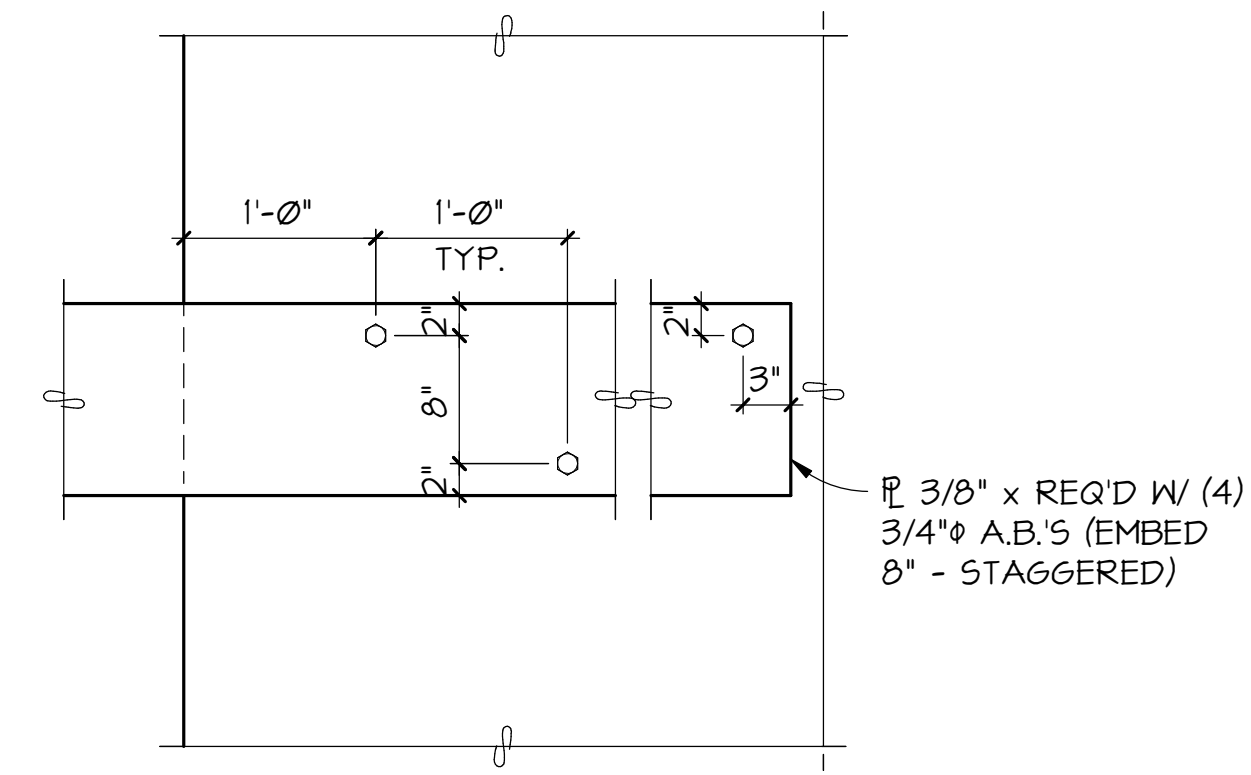
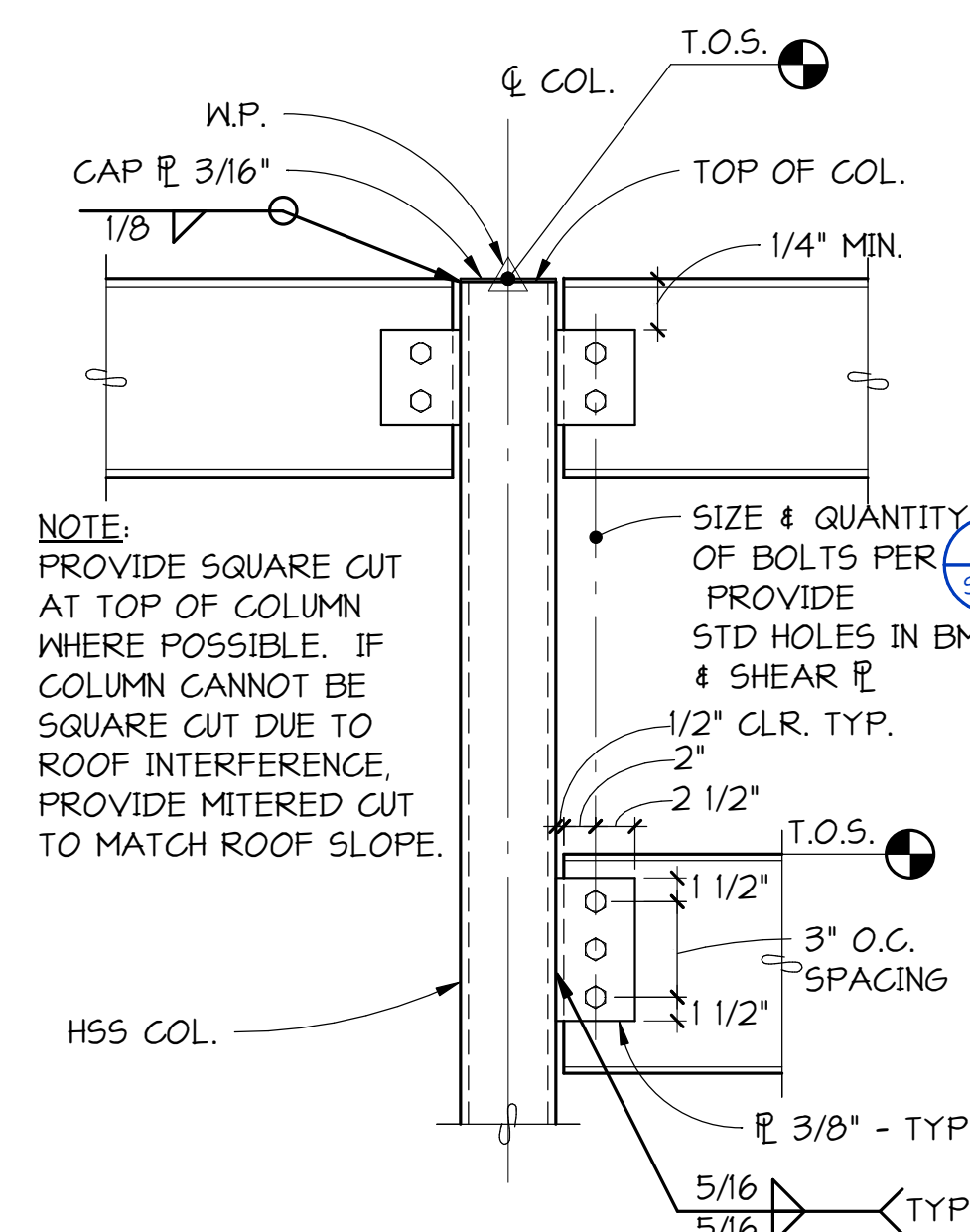


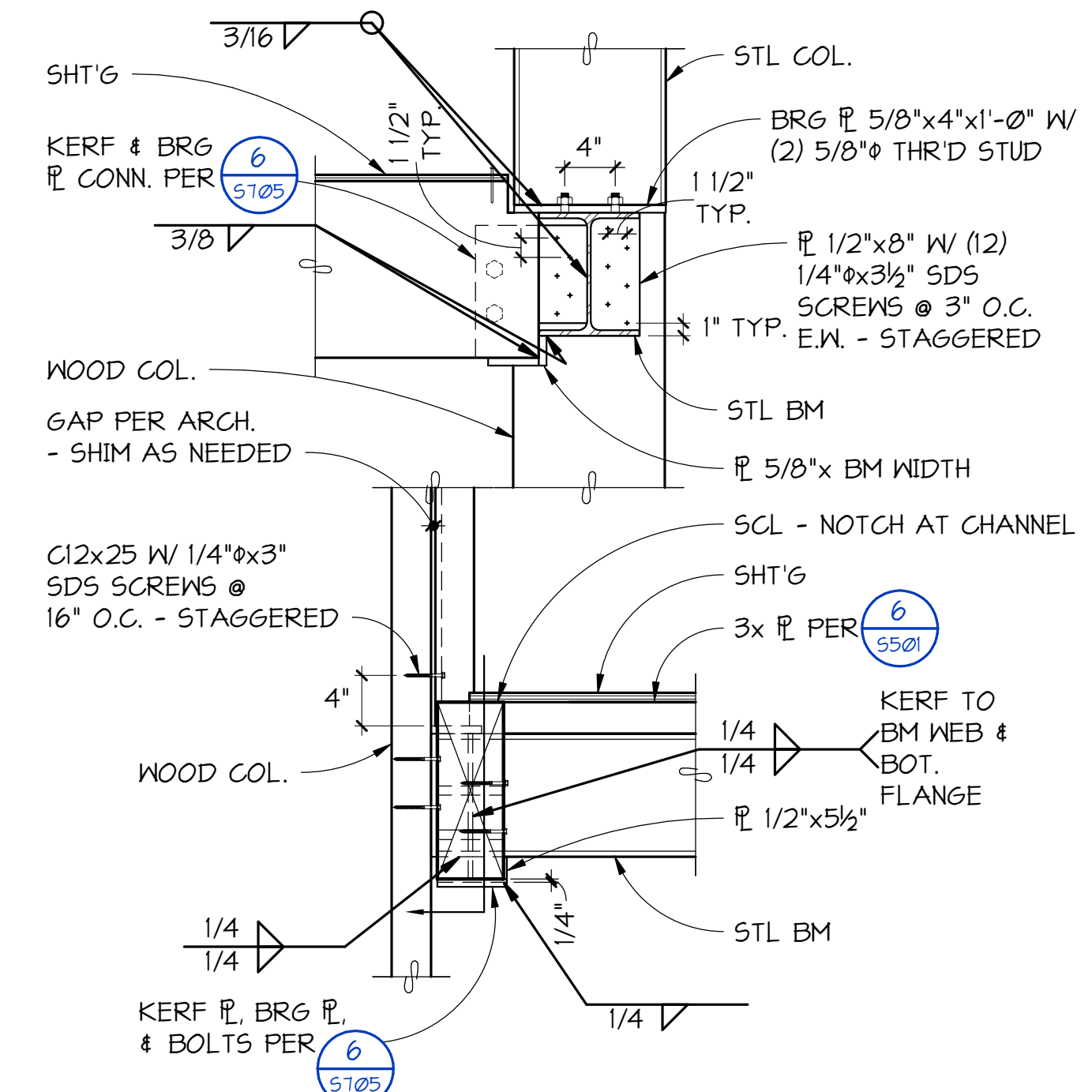
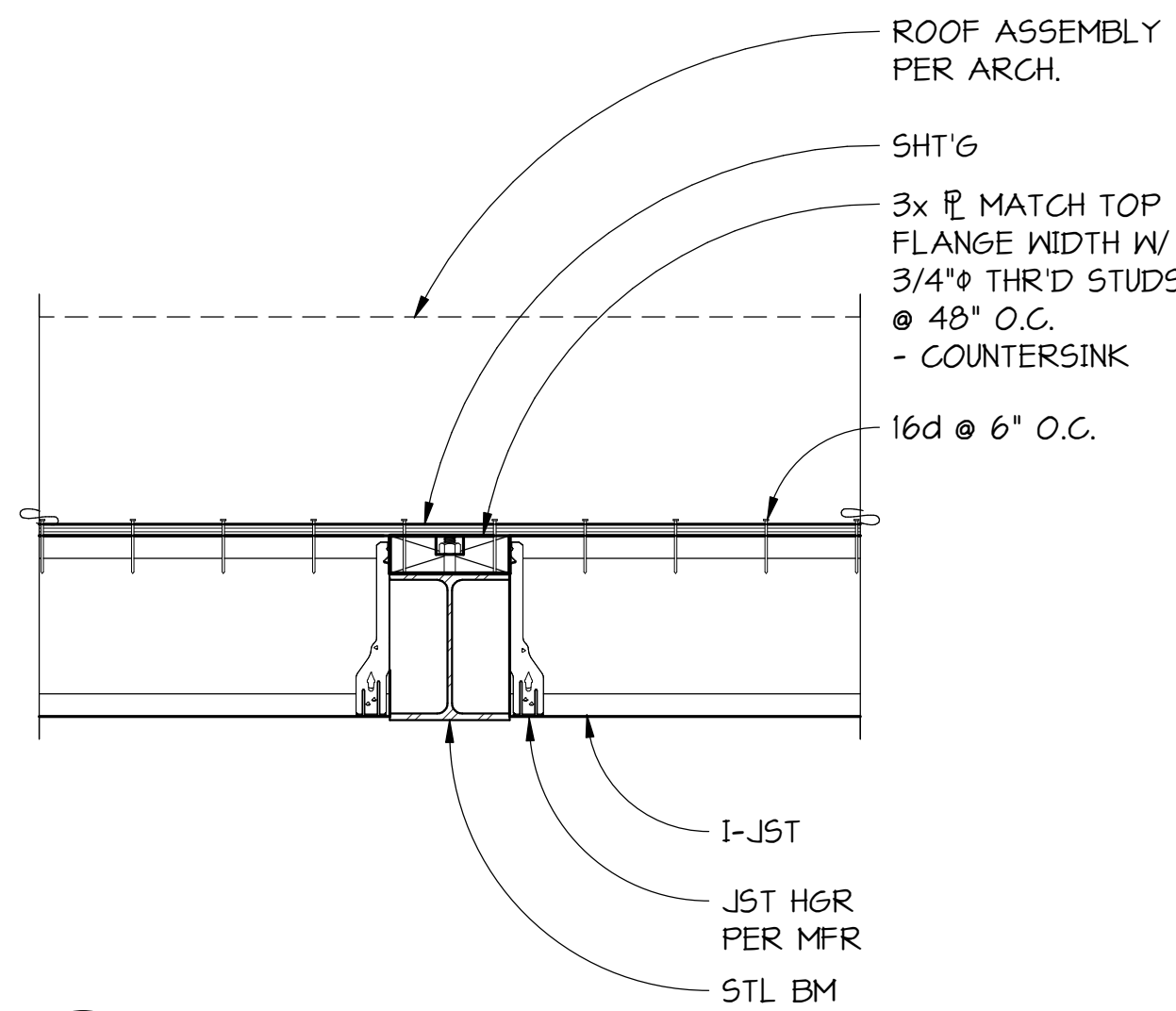
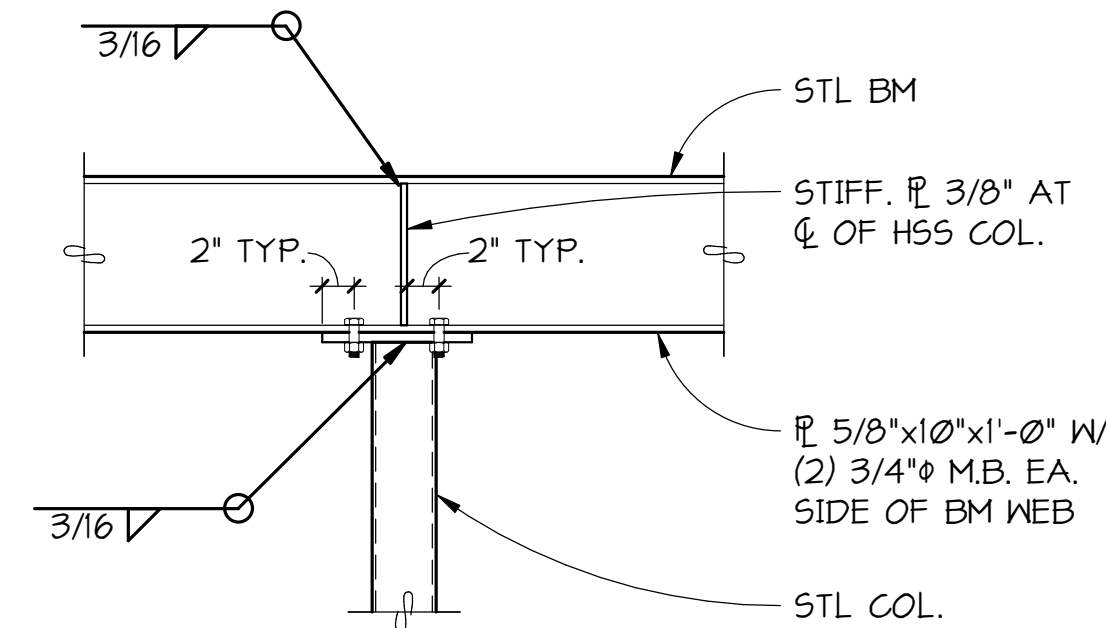
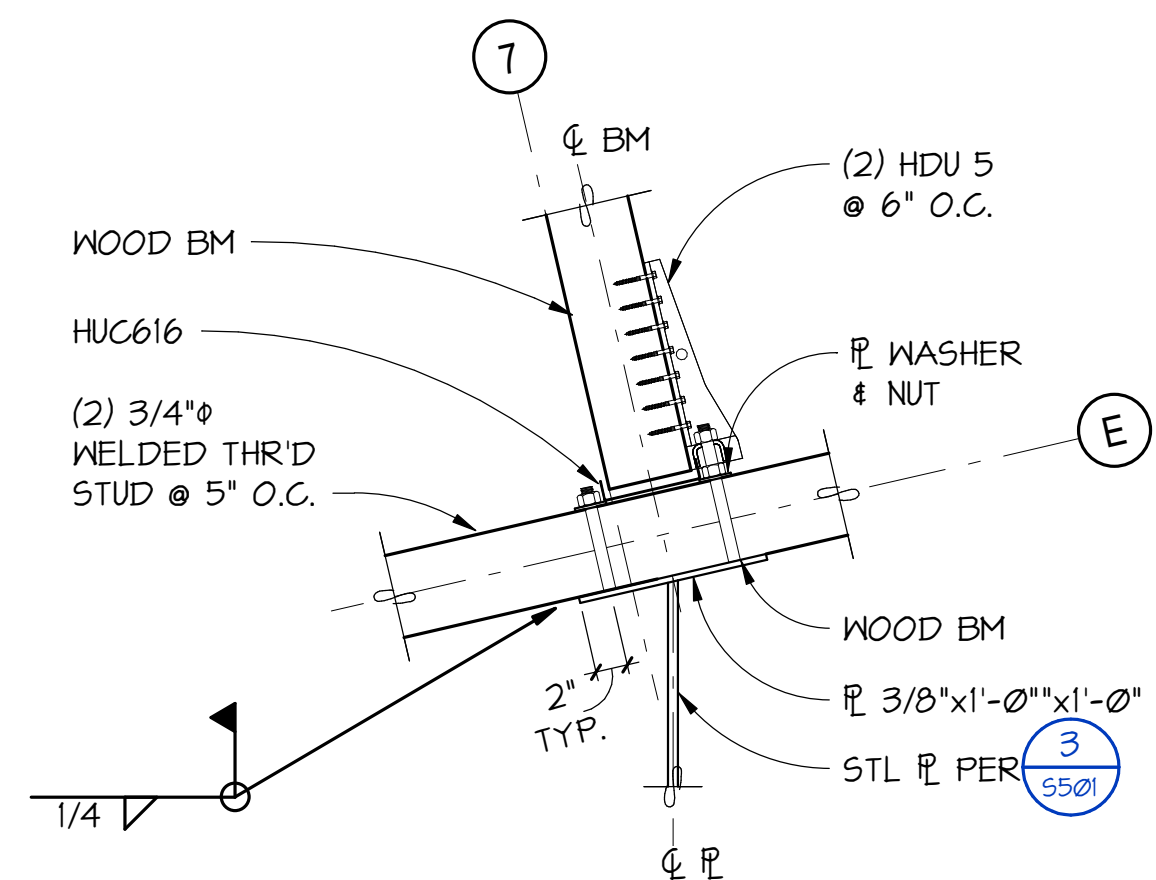
TABLE A			
SUPPORTED BEAM SIZE	QUANTITY OF 1/8" DIAMETER A325N BOLTS	SHEAR PLATE THICKNESS "A"	WELD "W"
W10	2	3/8"	5/16"
W12	3	3/8"	5/16"



1 TYPICAL STEEL DETAIL  
DETAIL  
S501 NO SCALE

2 TYPICAL BEAM FRAMING INTO HOLLOW STRUCTURAL STEEL COLUMN  
DETAIL  
S501 NO SCALE

3 DETAIL  
S501 1" = 1'-0"

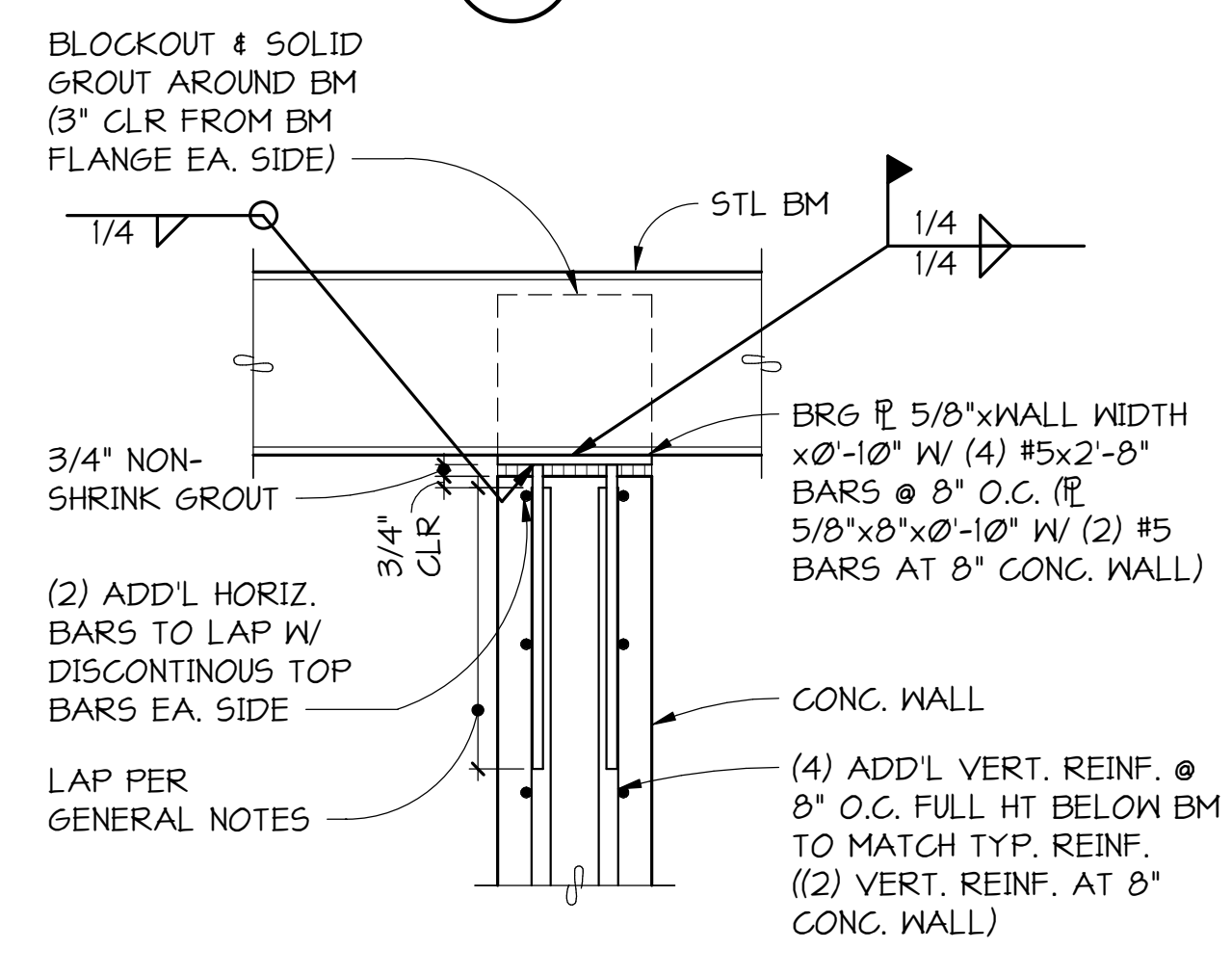
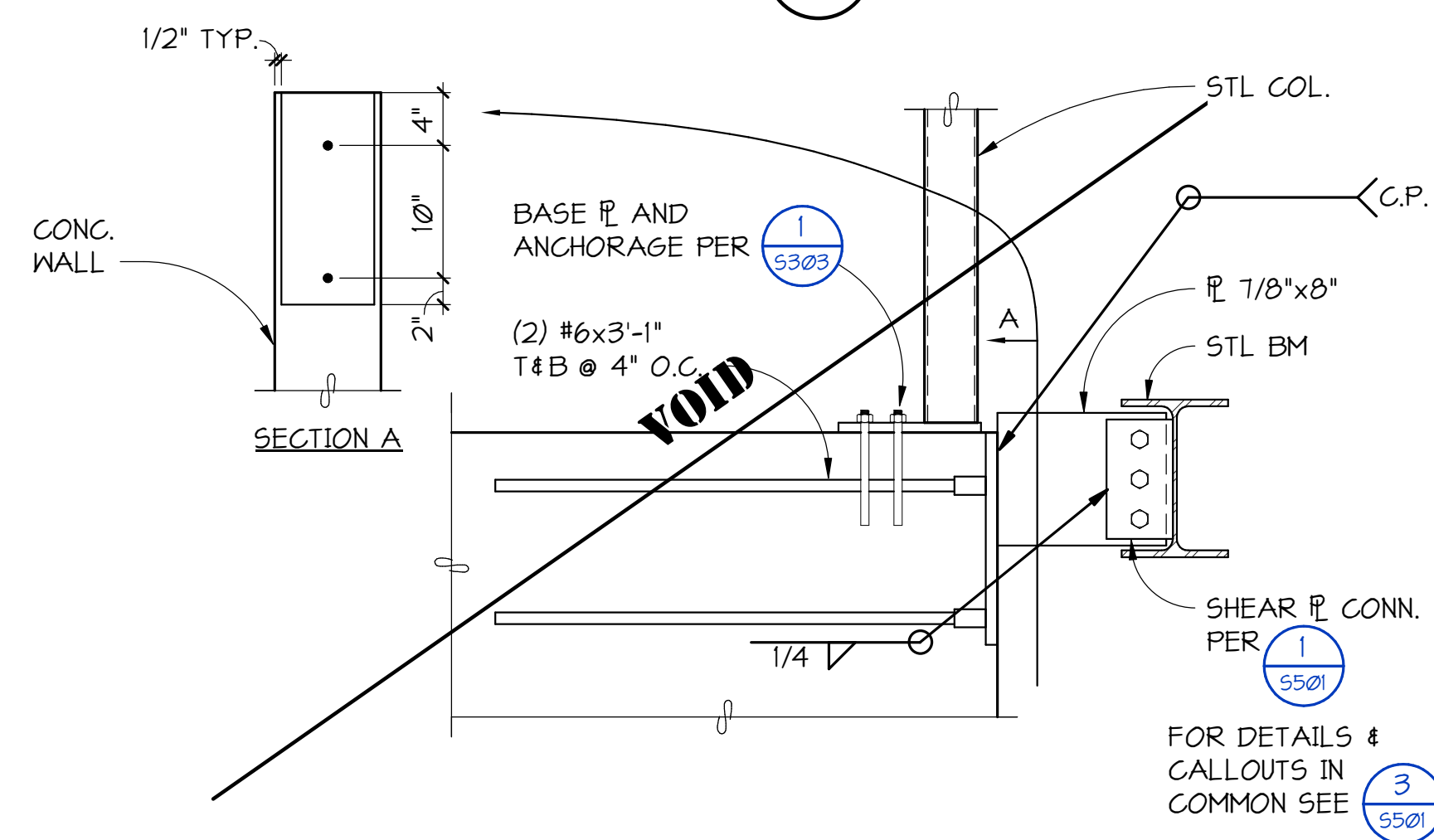
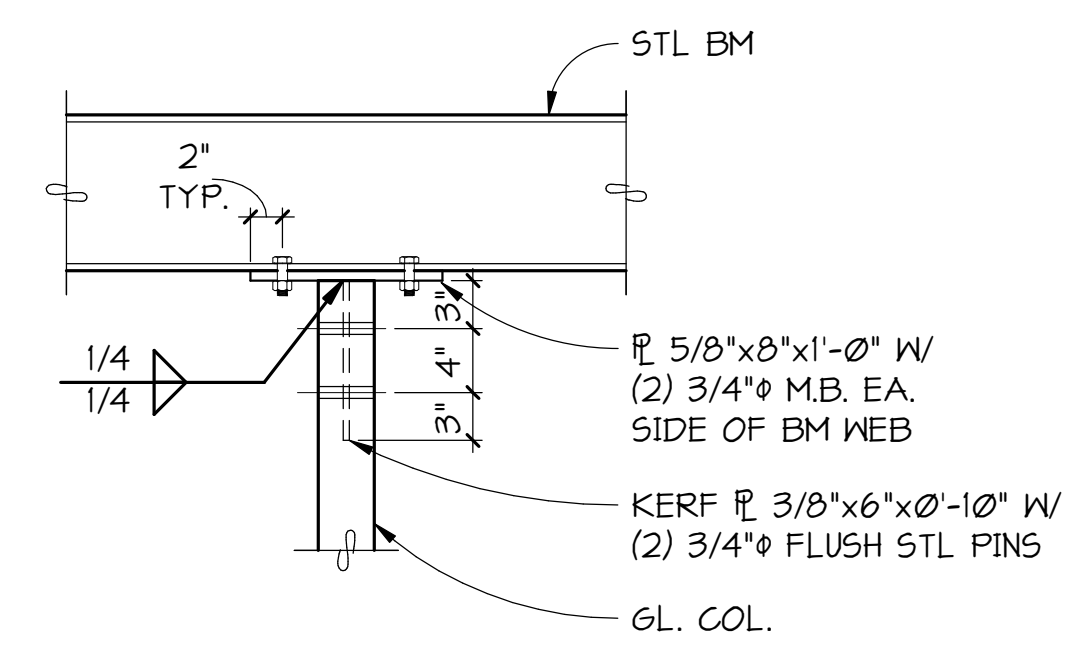
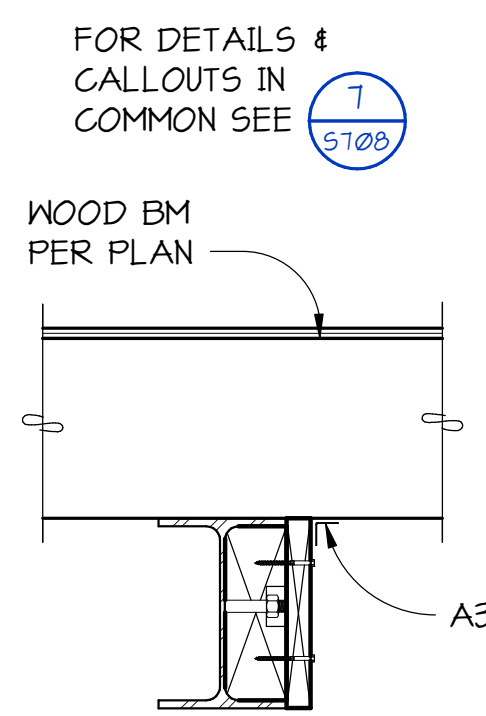


4 PLAN DETAIL  
S501 1" = 1'-0"

5 DETAIL  
S501 1" = 1'-0"

6 SECTION  
S501 1" = 1'-0"

7 DETAIL  
S501 1" = 1'-0"

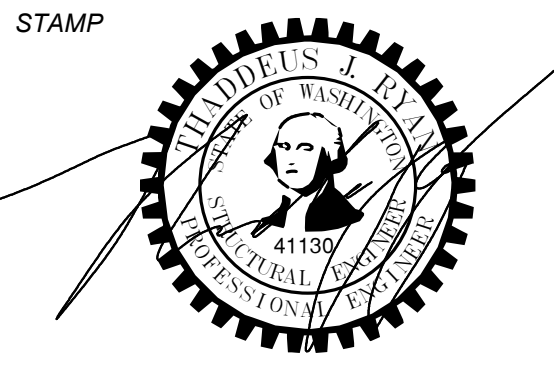


8 SECTION  
S501 1" = 1'-0"

9 DETAIL  
S501 NO SCALE

10 DETAIL  
S501 1" = 1'-0"

11 SECTION  
S501 1" = 1'-0"



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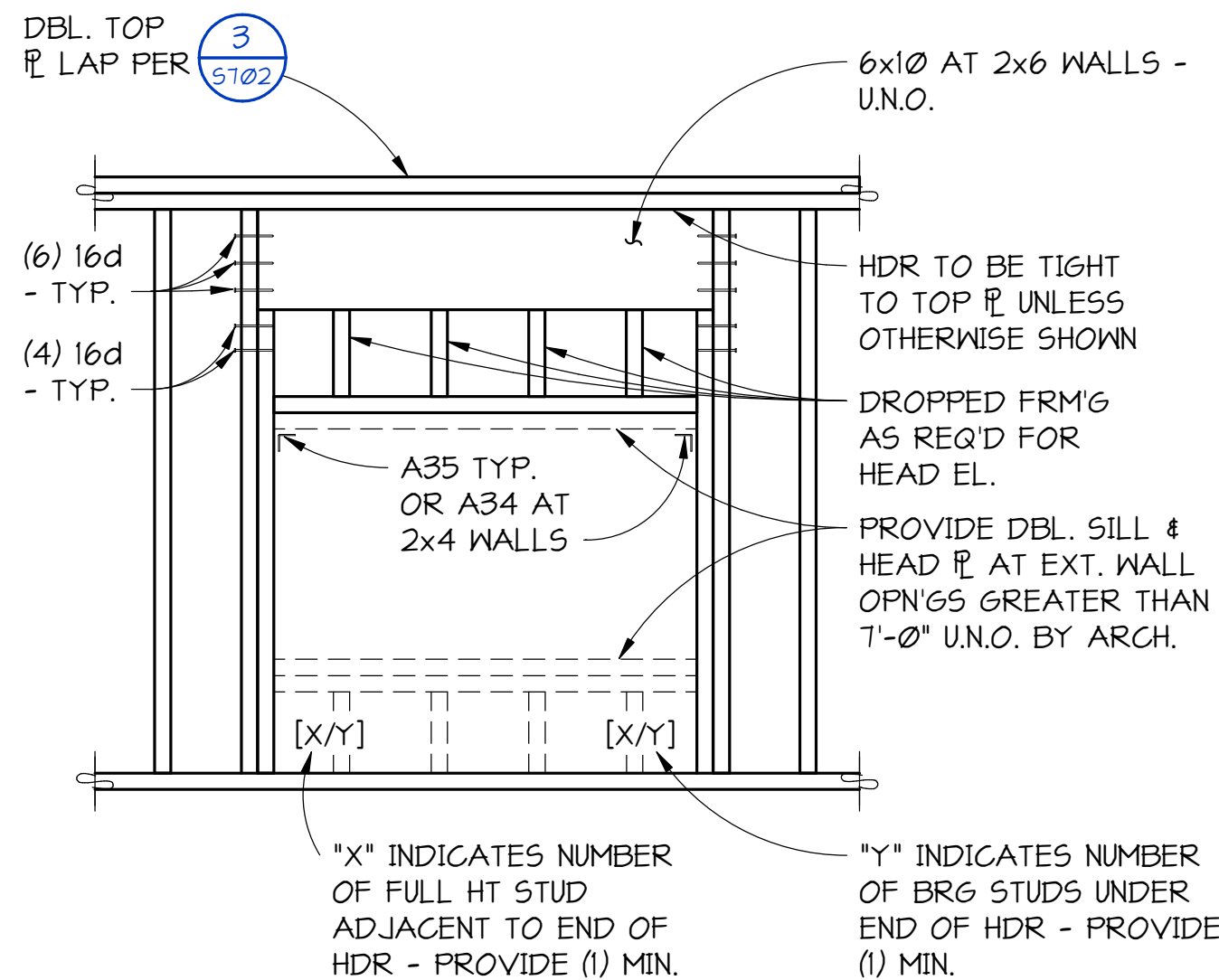
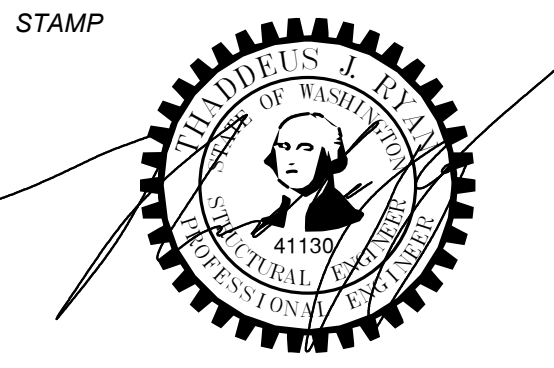
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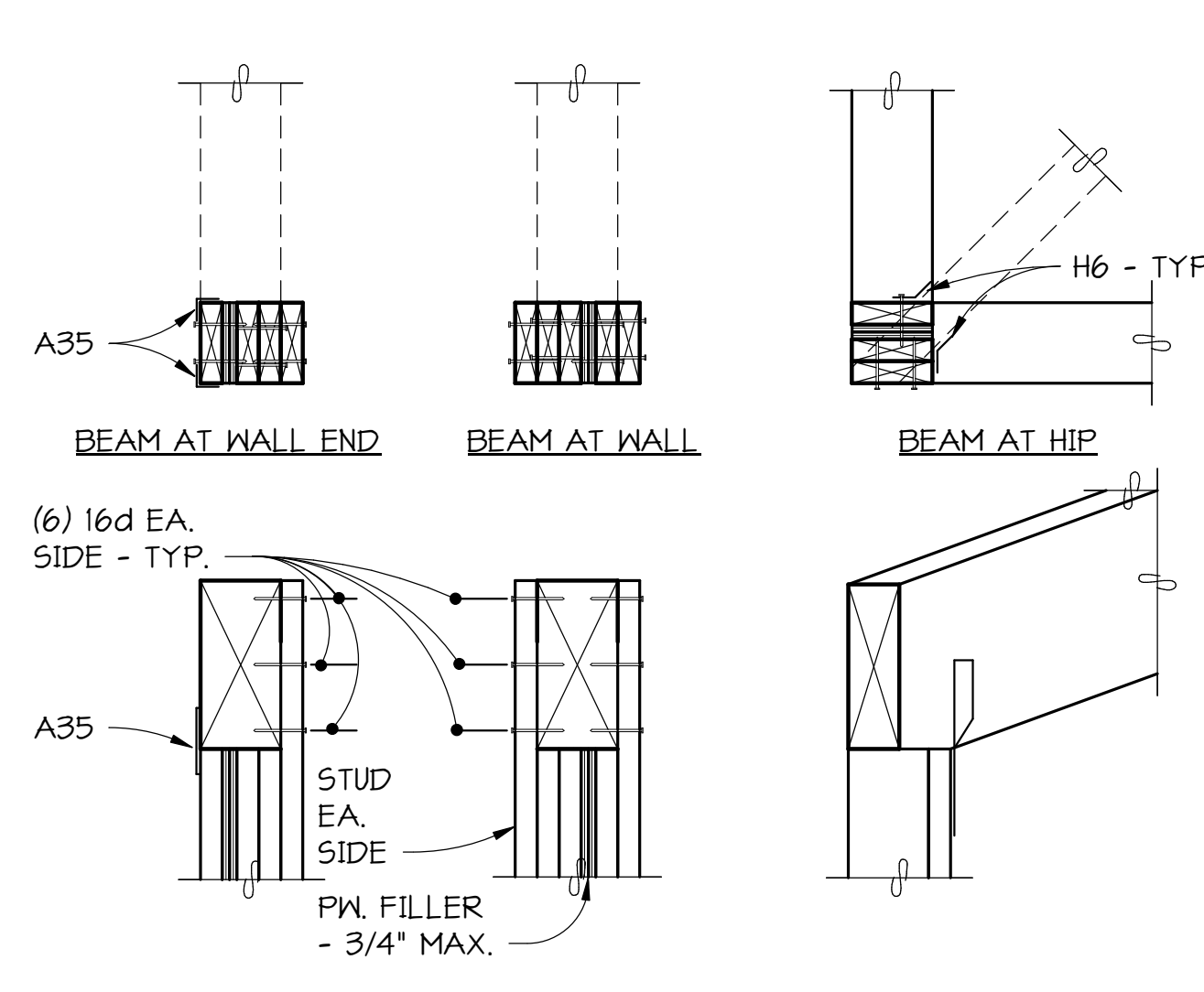
SHEET

**STEEL FRAMING DETAILS S501**

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1 SECTION  
 5101 NO SCALE  
 TYPICAL STUD WALL CONSTRUCTION AT HEADER

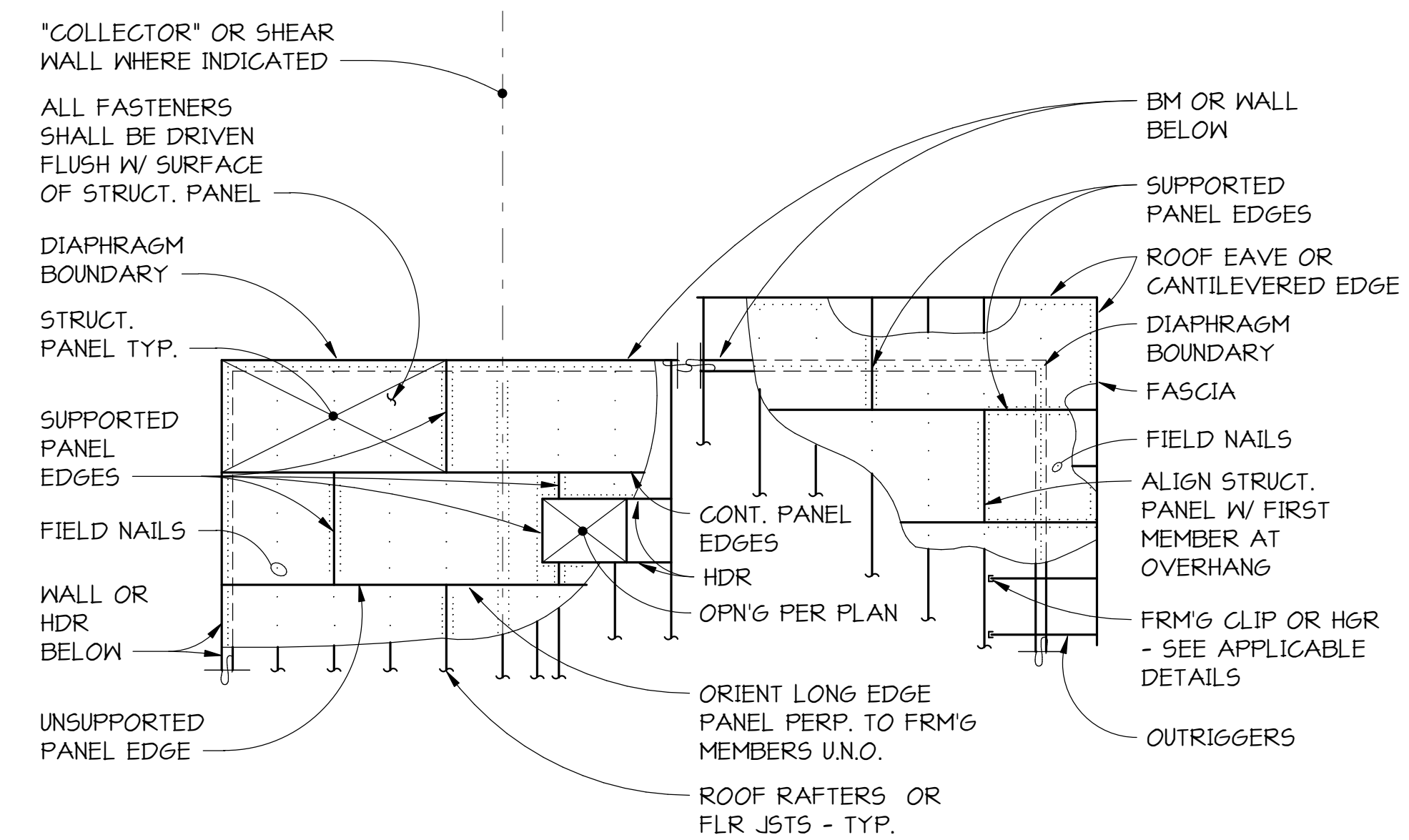


2 DETAIL  
 5101 NO SCALE  
 TYPICAL BUILT-UP COLUMN AT BEAM PERPENDICULAR TO WALL

DIAPHRAGM TYPE	LOCATION	NAILS	SPACING
FLOOR	DIAPHRAGM BOUNDARY	10d	6" O.C.
DIAPHRAGM 1/8" WARMBOARD OR 3/4" TONGUE AND GROOVE SHEATHING UNBLOCKED UNLESS NOTED OTHERWISE	FIELD NAILS	10d	12" O.C.
	SUPPORTED PANEL EDGES	10d	6" O.C.

NOTES:  
 1. PROVIDE (2) ROWS OF SPECIFIED DIAPHRAGM BOUNDARY NAILING OVER INTERIOR SHEAR WALLS AND THE FULL LENGTH OF "COLLECTORS" WHERE INDICATED.  
 2. AT BLOCKED DIAPHRAGMS PROVIDE 2x4 FLATWISE BLOCKING WITH "Z2" CLIPS AT EACH END AT ALL UNSUPPORTED PANEL EDGES. USE 2x4 STRUCTURAL COMPOSITE LUMBER FLATWISE BLOCKING IN LIEU OF SOLID SAWN WHERE NAILING SIZE OR SPACING EXCEEDS 10d AT 4" ON CENTER.

3 SCHEDULE  
 5101 NO SCALE  
 TYPICAL DIAPHRAGM NAILING

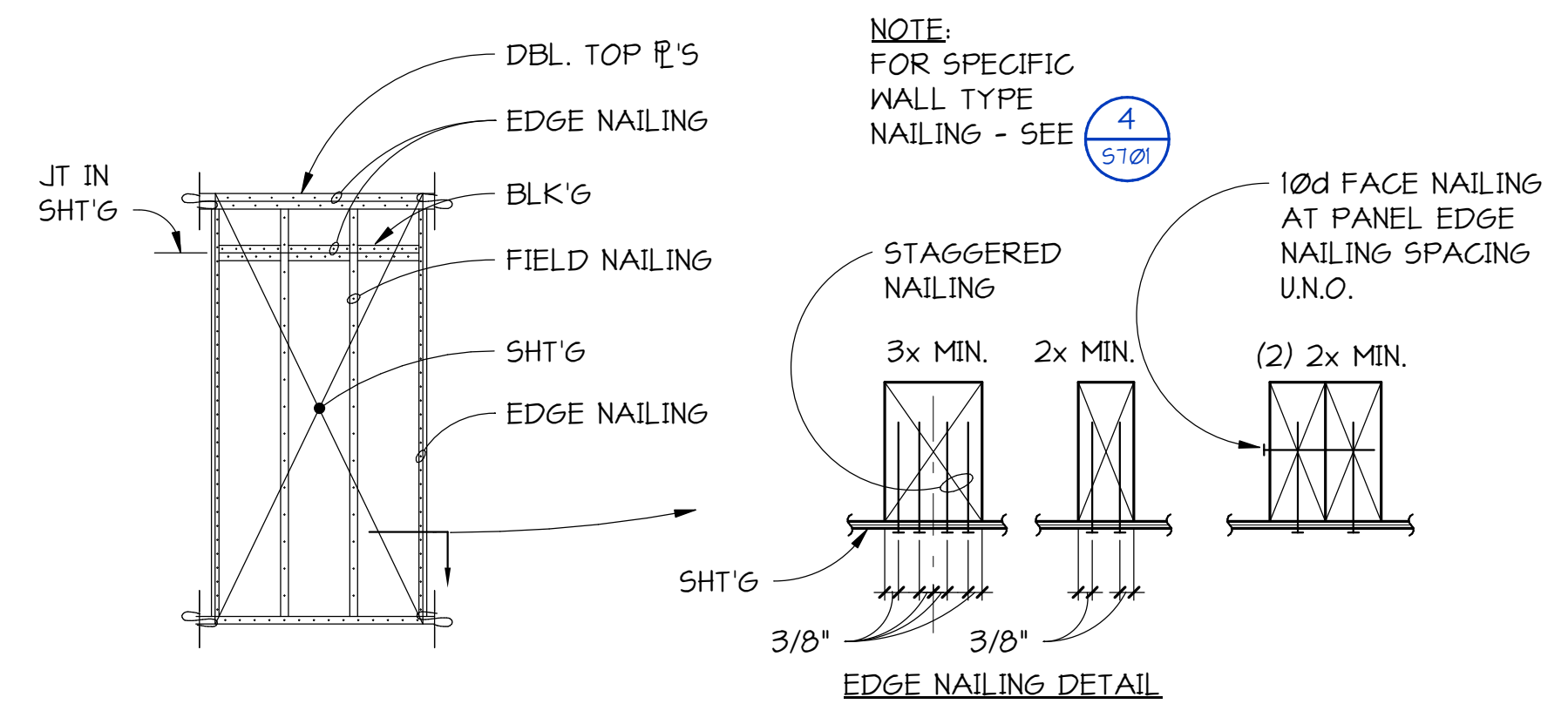


MARK	WALL SHEATHING	SIDES WITH SHEATHING	SHEATHING NAILS NOTE 2	EDGE NAILING ON CENTER	EDGE FRAMING NOTE 5	FIELD NAILING ON CENTER	BOTTOM PLATE NOTE 6	BOTTOM PLATE NAILING	5/8" ANCHOR BOLT SPACING (EMBED 7" MINIMUM)	RIM/BLOCKING CONNECTOR TO TOP PLATE BELOW
(A)	1/2"	(1)	10d	6"	2x	12"	2x	10d @ 8" O.C.	48"	A35 @ 20" O.C.
(B)	1/2"	(1)	10d	4"	3x	12"	2x	10d @ 8" O.C.	32"	A35 @ 16" O.C.
(C)	1/2"	(1)	10d	3"	3x	12"	2x	SDS @ 6" O.C.	24"	A35 @ 12" O.C.

INDICATES SPECIAL SHEAR WALL REQUIREMENTS PER TABLE 1

NOTES:  
 1. (X) INDICATES SPECIAL STRUCTURAL WALL MARK. ALL WALLS SHOWN ON STRUCTURAL DRAWINGS ARE 2x6 AT 16" ON CENTER UNLESS DESIGNATED SPECIAL. STUD LAYOUT SHALL MATCH FRAMING MEMBER LAYOUT ABOVE WHERE APPLICABLE. ALL EXTERIOR WALLS SHALL HAVE 1/2" WOOD SHEATHING AND BE NAILED WITH 10d AT 6" ON CENTER AT EDGES AND 12" ON CENTER IN FIELD UNLESS DESIGNATED SPECIAL.  
 2. ALL EXTERIOR WALLS AND ALL DESIGNATED SHEAR WALLS SHALL BE BLOCKED AT ALL SHEATHING EDGES. EDGE NAILING APPLIES TO ALL TOP AND BOTTOM PLATES, VERTICAL JOINTS, HORIZONTAL BLOCKED JOINTS, WALL CORNERS, AND HOLDOWN ANCHORED STUDS.  
 3. WHERE BEAMS OR HEADERS FRAME INTO WALLS AND A COLUMN IS NOT CALLED OUT, PROVIDE BUILT-UP COLUMNS PER 2/5101 FOR BEAM PERPENDICULAR TO WALL.  
 4. [X/Y] INDICATES BUILT-UP STUD COLUMNS AT HEADERS IN WALLS - SEE 2/5101 FOR BEAM PARALLEL TO WALL.  
 5. PROVIDE 3x OR DOUBLE 2x MEMBERS FACE NAILED PER 5/5101 AT ALL ABUTTING PANEL EDGES WHERE INDICATED.  
 6. 3x BOTTOM PLATE WHERE INDICATED.  
 7. WHERE SOLID SAWN STUD LENGTH CANNOT BE OBTAINED, STRUCTURAL COMPOSITE LUMBER STUDS MAY BE SUBSTITUTED. SOLID SAWN FRAMING MAY NOT BE SUBSTITUTED FOR SPECIFIED STRUCTURAL COMPOSITE LUMBER FRAMING.

4 SCHEDULE  
 5101 NO SCALE



NOTES:  
 1. PANEL EDGE NAILING AND PLATE NAILING SHALL BE STAGGERED IN ALL CASES.  
 2. SHEATHING JOINT SHALL OCCUR AT COMMON MEMBER UNLESS IT OCCURS AT A SPECIFIED DOUBLE MEMBER.  
 3. EDGE NAILING APPLIES TO AREAS INDICATED AND AT HOLDOWN ANCHORED STUDS.

5 SECTION  
 5101 NO SCALE  
 TYPICAL SHEAR WALL NAILING

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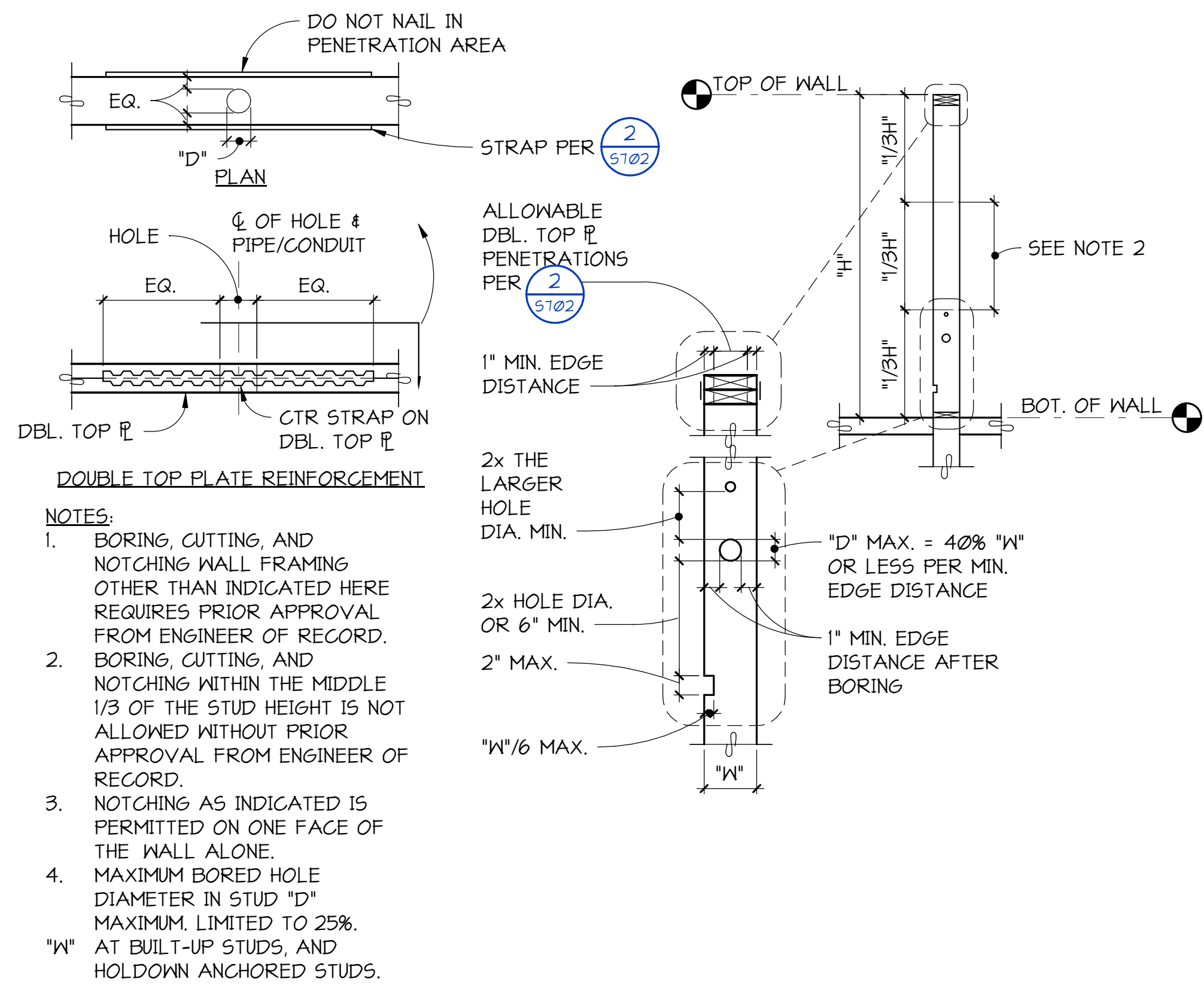
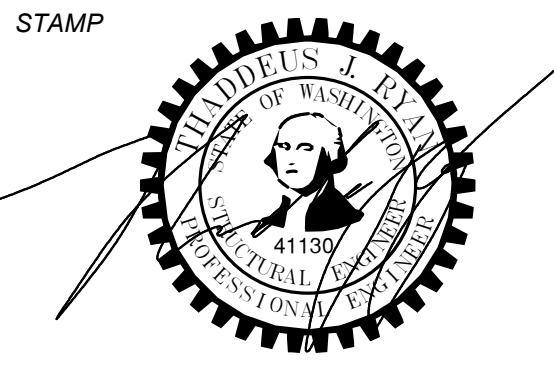
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**WOOD FRAMING DETAILS S701**



**1** **DETAIL**  
 S702 NO SCALE

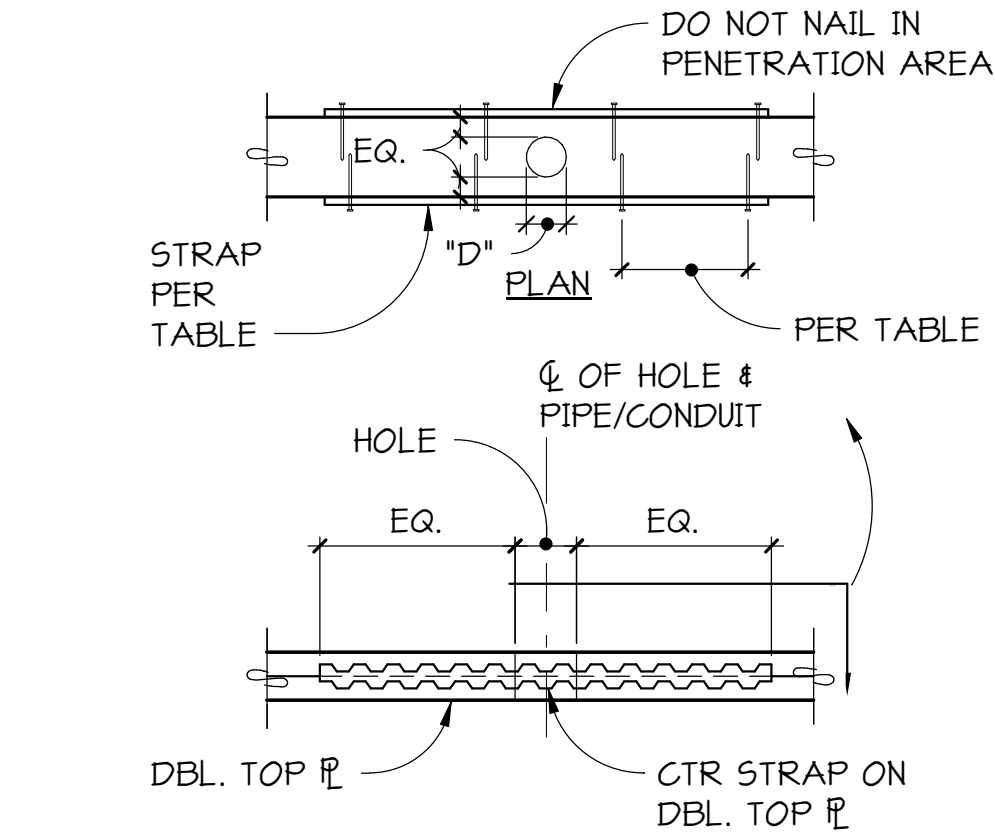
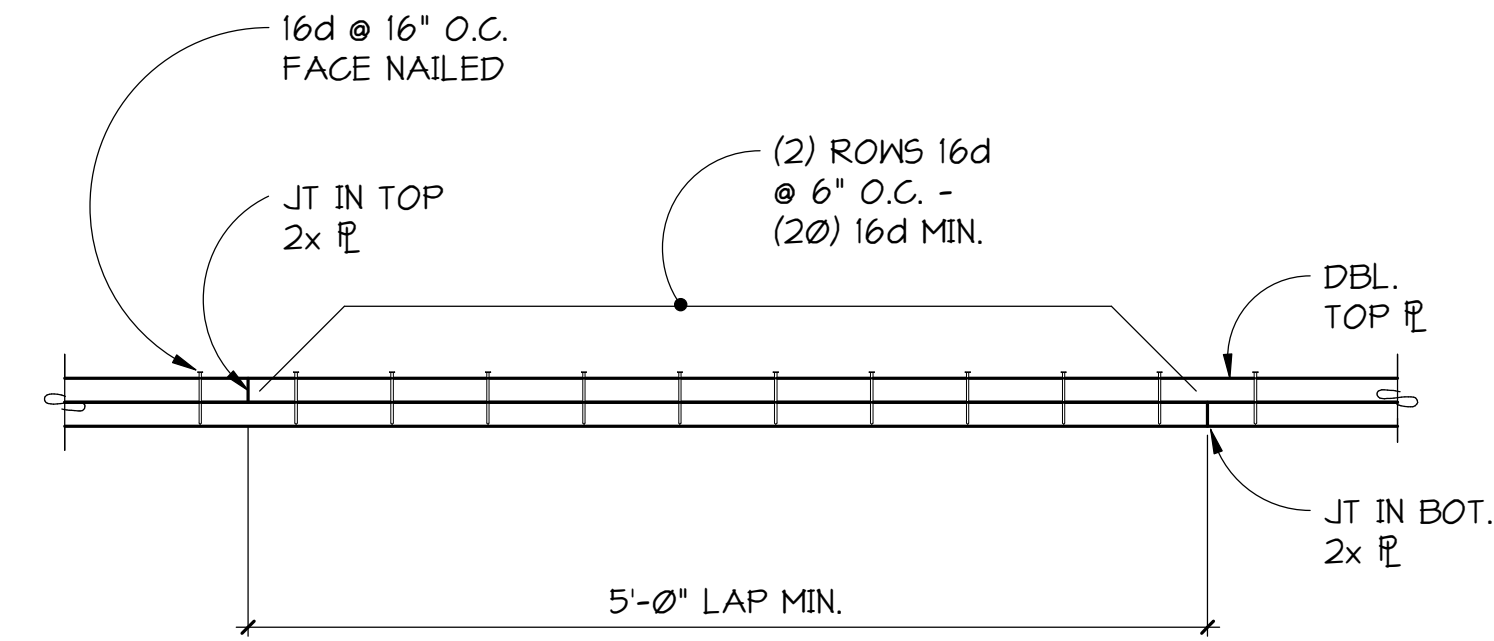
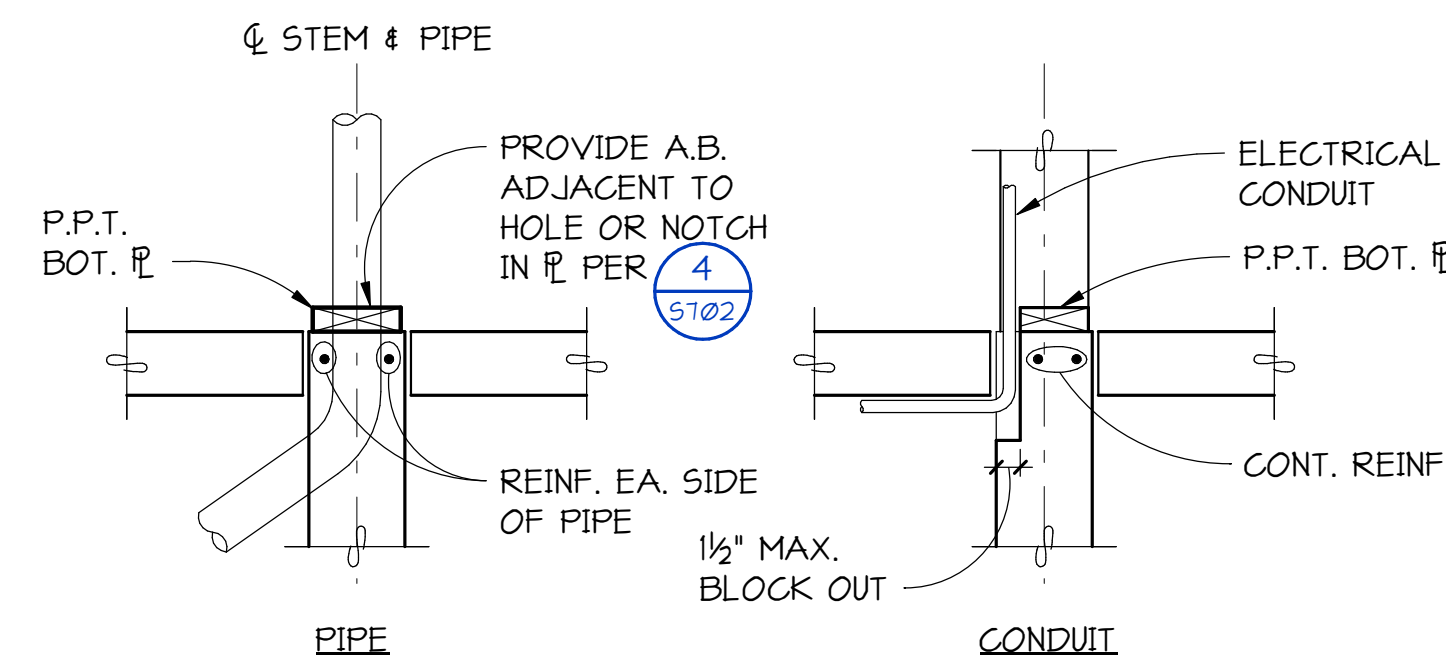


PLATE SIZE	HOLE DIAMETER "D" INCHES	STRAP
2x6	0" < "D" < 2 1/2" 2 1/2" ≤ "D" < 3 3/8"	NO STRAP REQ'D (2) ST2215 W (Ø) 16d EA. END

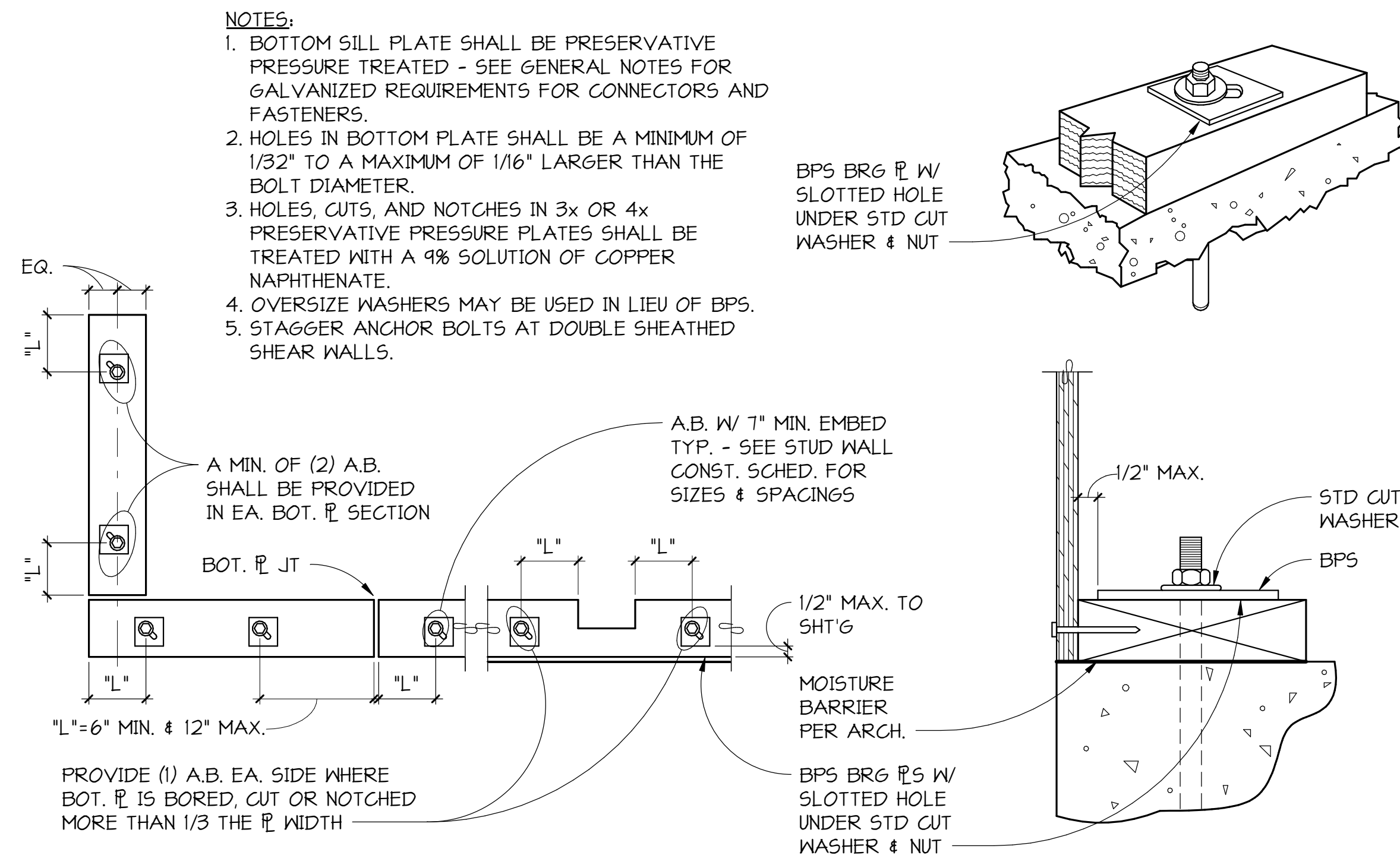
**2** **DETAIL**  
 S702 NO SCALE



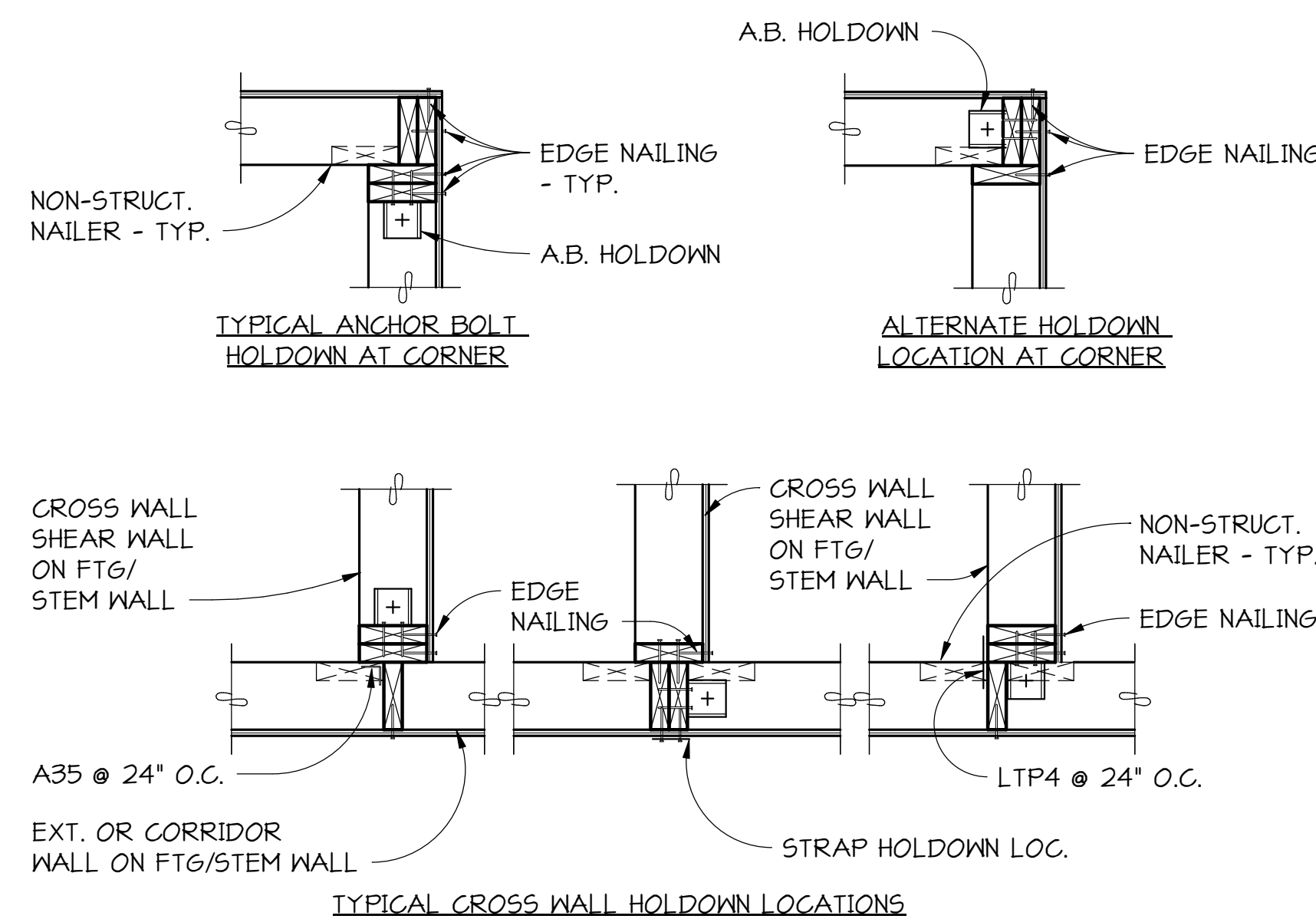
**3** **SECTION**  
 S702 NO SCALE



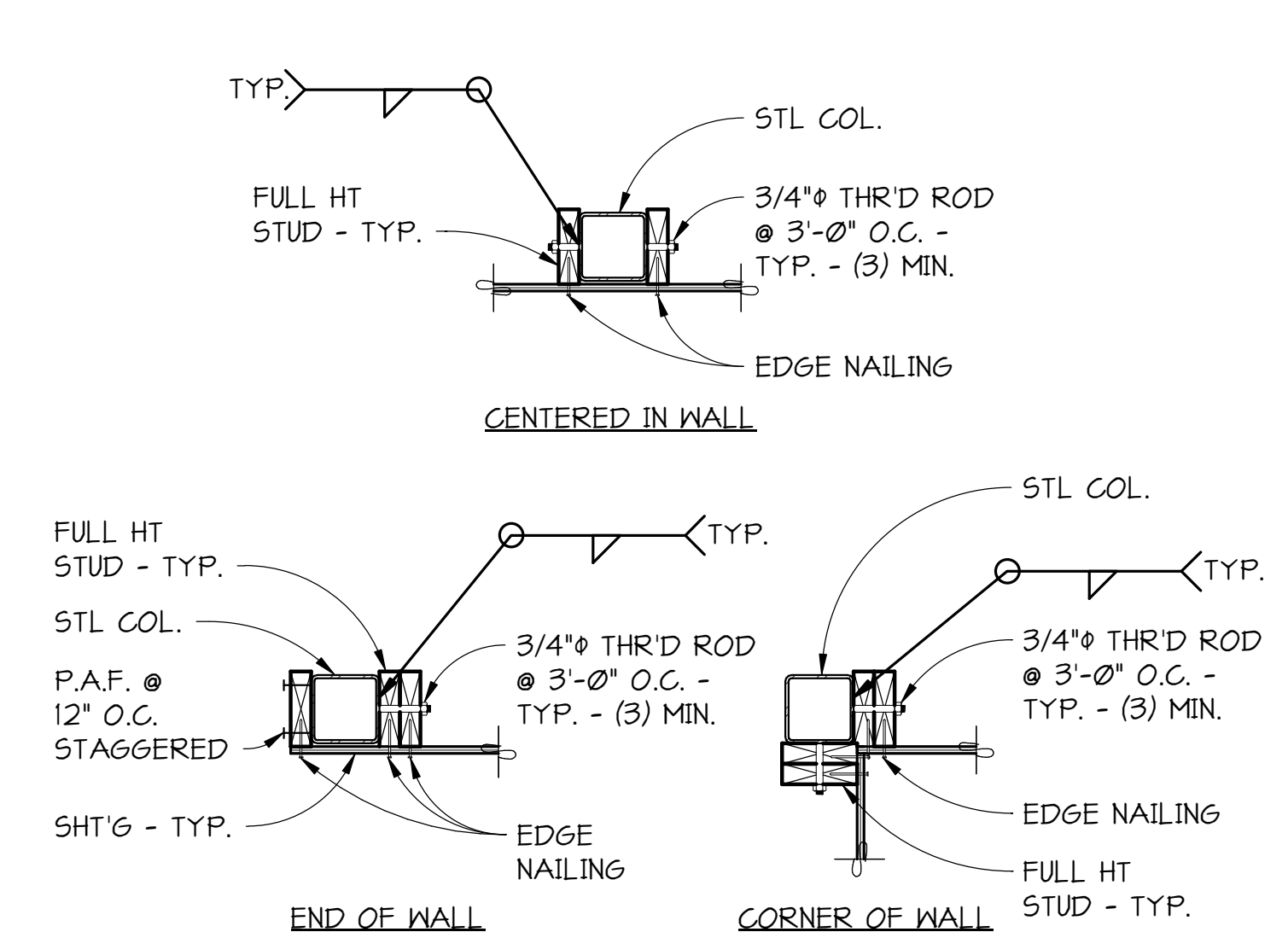
**5** **DETAIL**  
 S702 NO SCALE



**4** **DETAIL**  
 S702 NO SCALE



**6** **PLAN DETAIL**  
 S702 NO SCALE



**7** **DETAIL**  
 S702 NO SCALE

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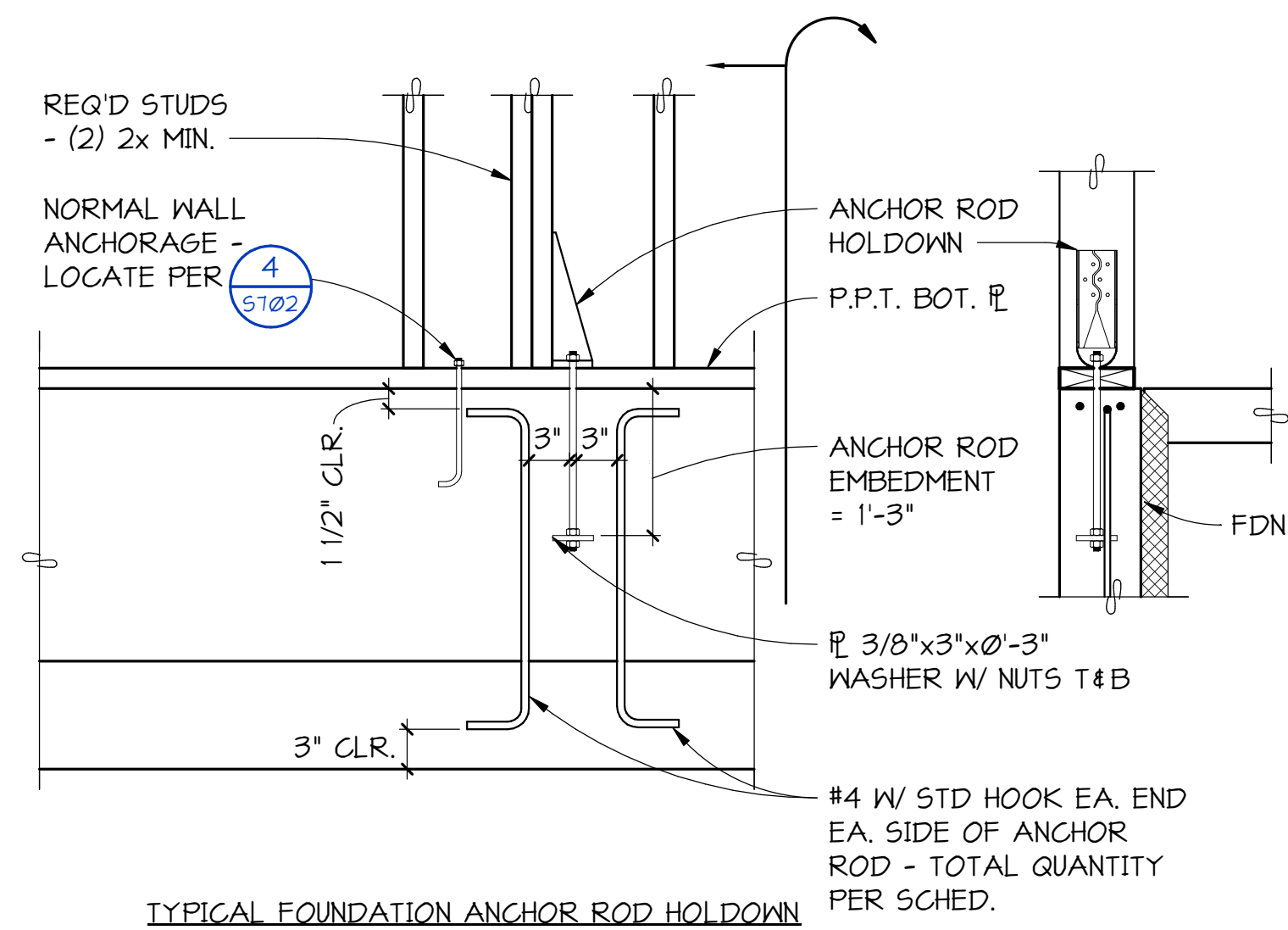
**WOOD FRAMING DETAILS S702**



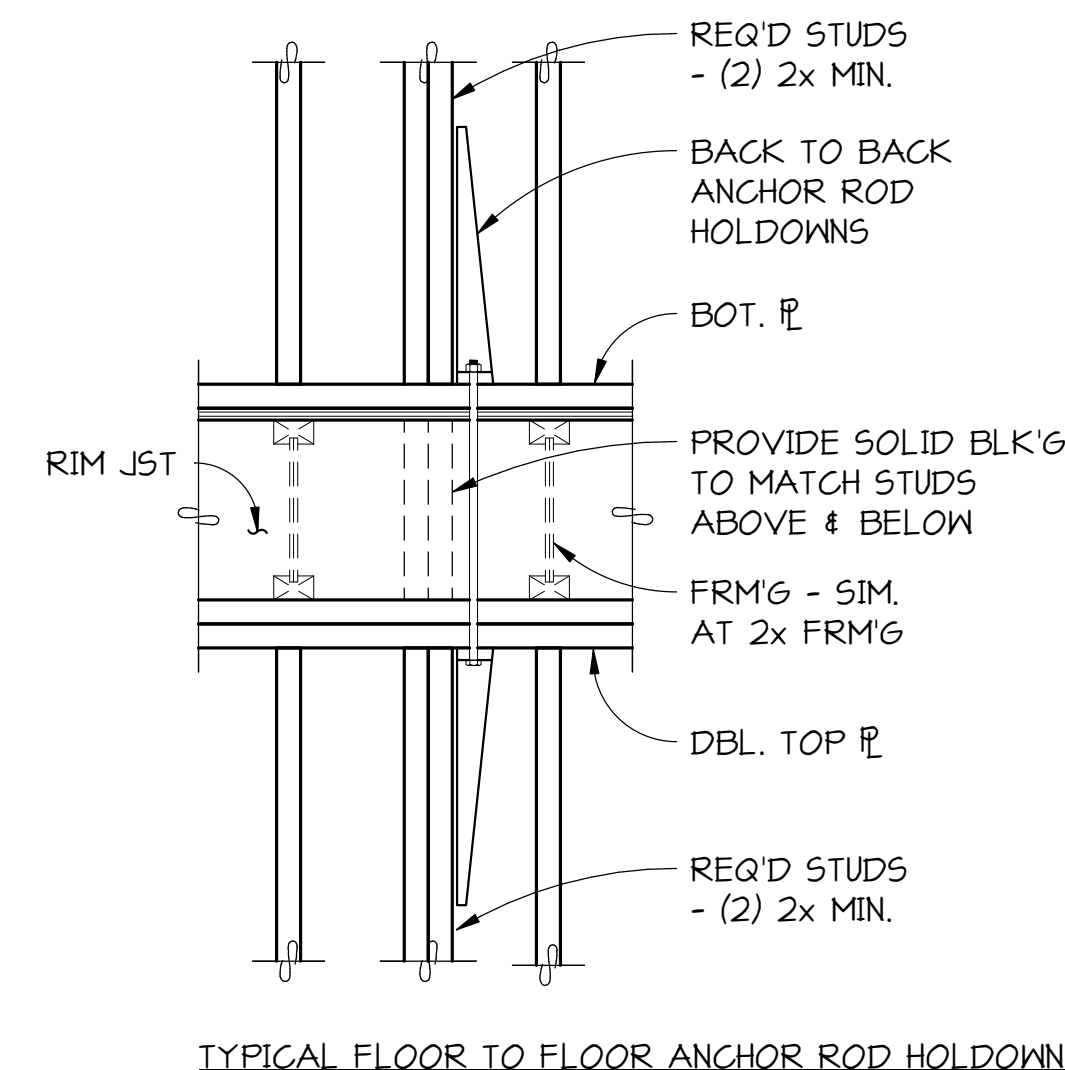
HOLDOWN SCHEDULE					
FOUNDATION ANCHOR ROD TYPE 1					
MARK	HOLDOWN <sup>2</sup>	ANCHOR ROD <sup>3</sup> DIAMETER	REINFORCEMENT <sup>4</sup>	REQUIRED STUDS	REFERENCED DETAILS
2	HDU2	5/8"	(2) #4	(2) 2x	2/5103 & 6/5102
4	HDU4	5/8"	(2) #4	(2) 2x	2/5103 & 6/5102
5	HDU5	5/8"	(2) #4	(2) 2x	2/5103 & 6/5102
8	HDU8	7/8"	(2) #4	(3) 2x	2/5103 & 6/5102

- NOTES:**
- ALL HOLDDOWNS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
  - PROVIDE BACK TO BACK ANCHOR ROD HOLDDOWNS ACROSS FLOOR LINE PER 3/5103.
  - ALL-THREAD ROD ASTM A36 WITH 3"x3"x3/8" PLATE WITH DOUBLE NUTS AT FOUNDATION.
  - EMBEDMENT MAY REQUIRE STEPPING DOWN FOOTING PER 5/5301 TO ACHIEVE REQUIRED EMBEDMENT.

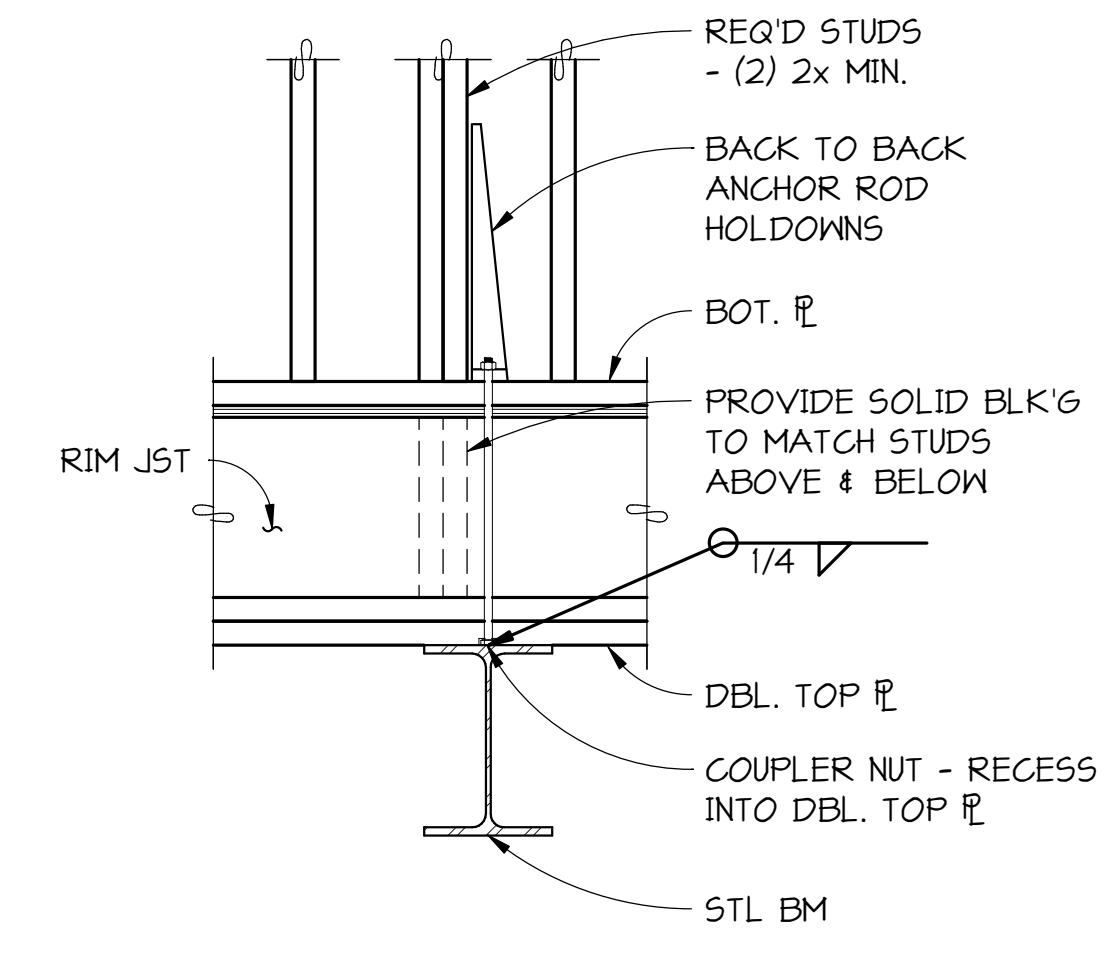
1 SCHEDULE  
5103 NO SCALE



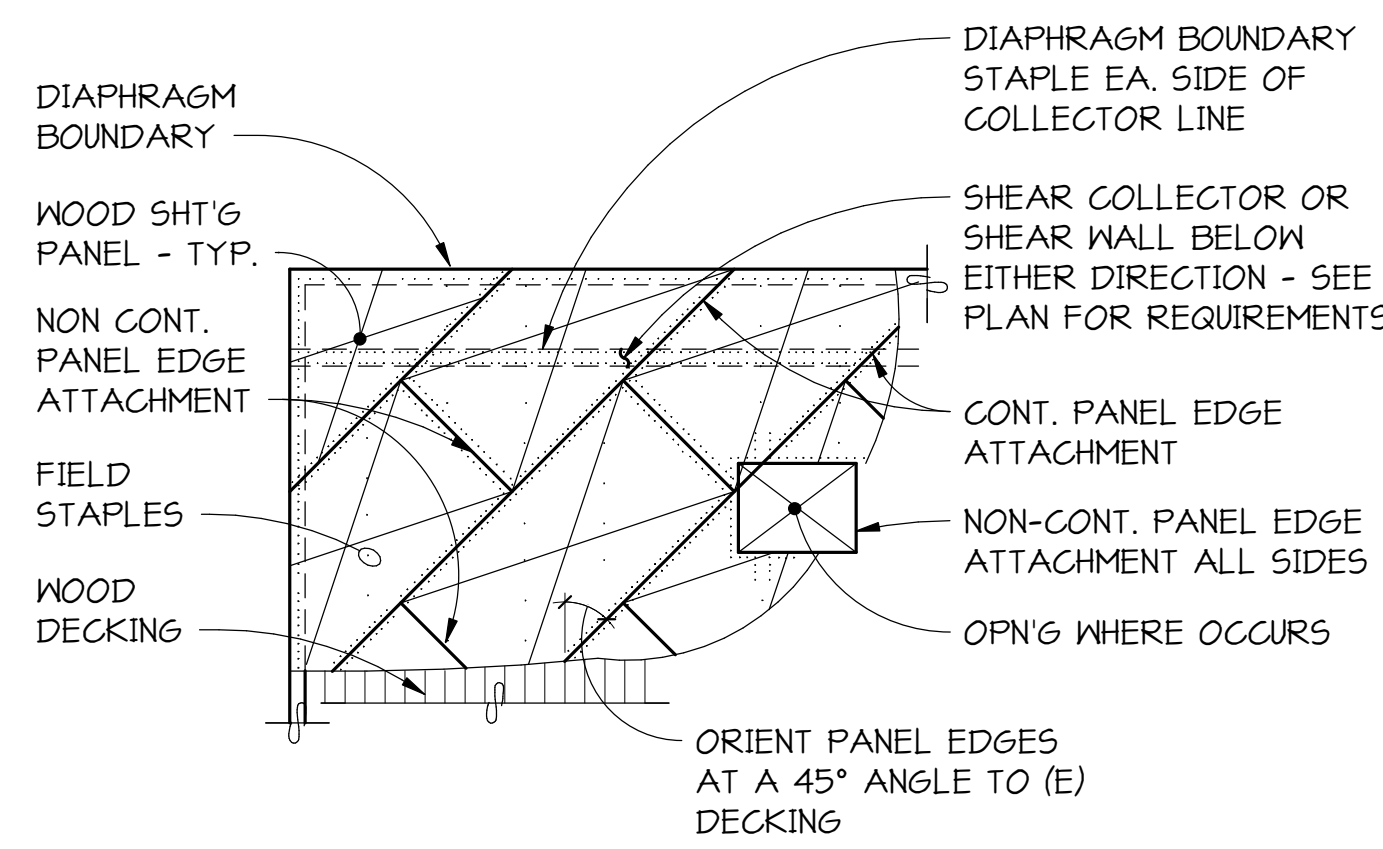
2 DETAIL  
5103 NO SCALE



3 DETAIL  
5103 NO SCALE



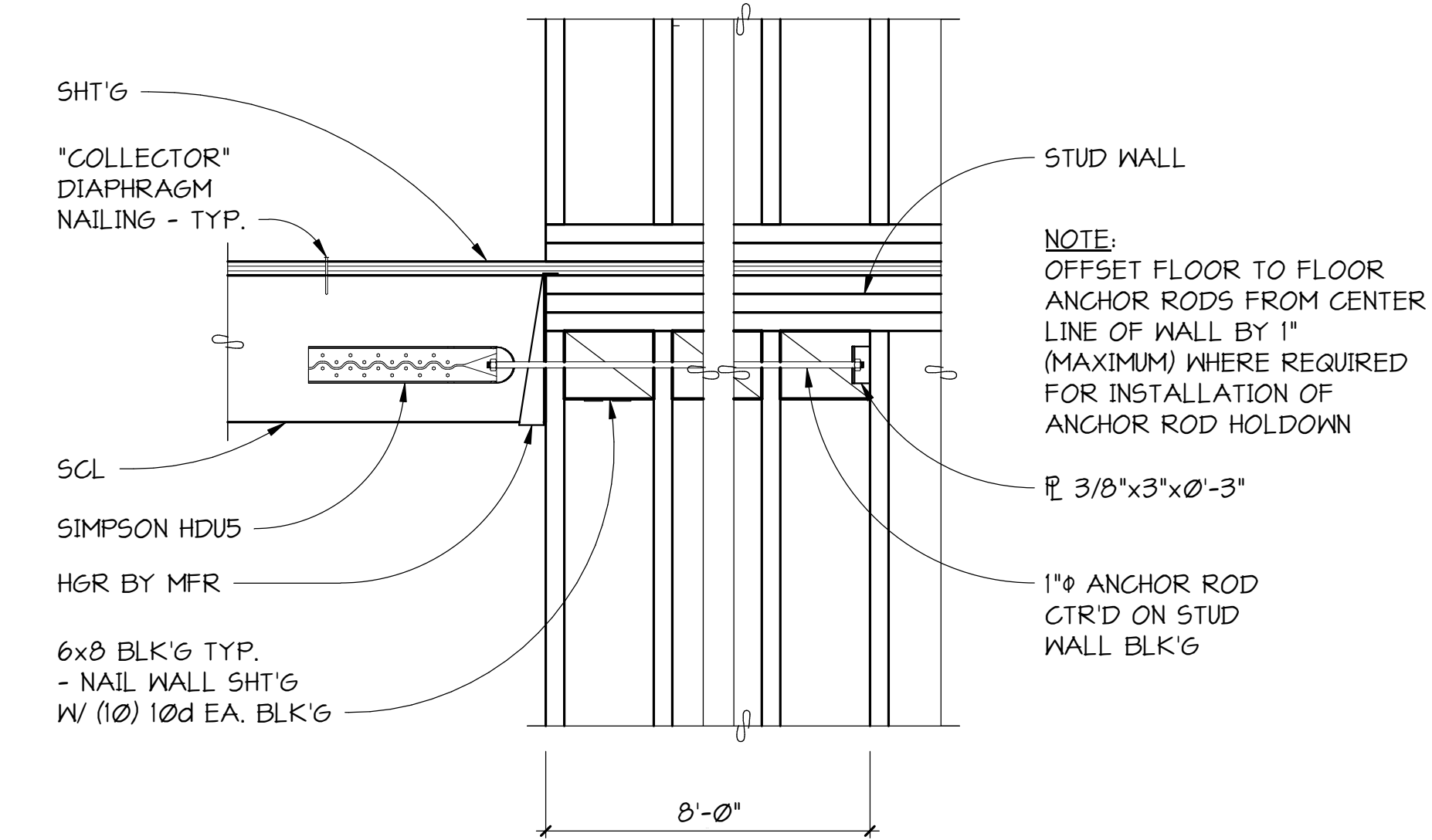
4 DETAIL  
5103 1" = 1'-0"



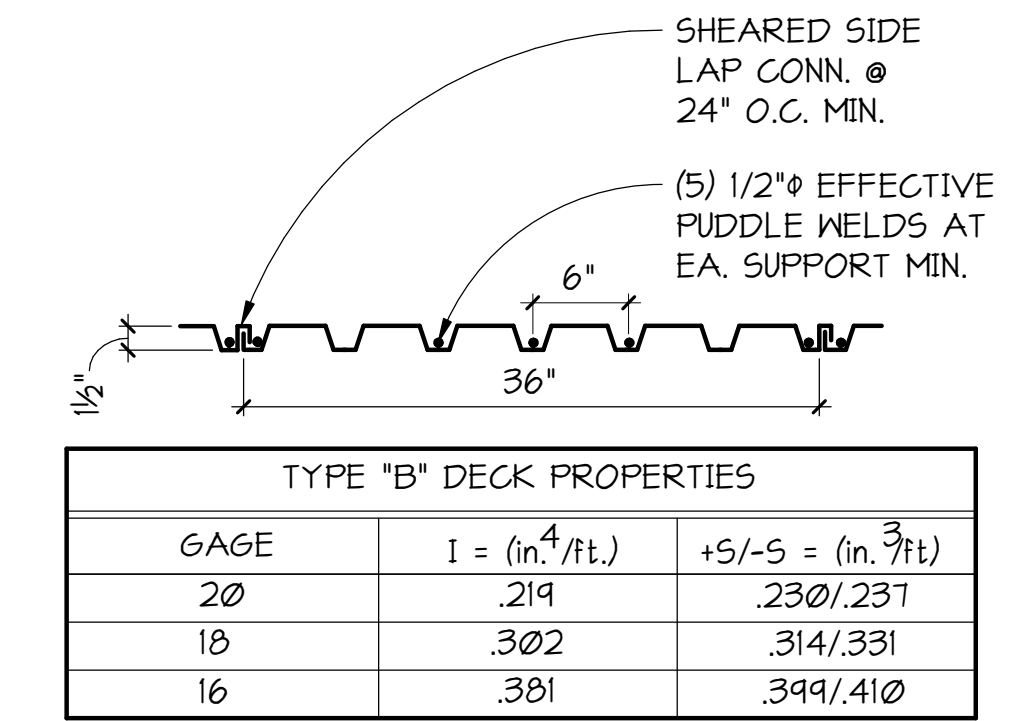
5 PLAN  
5103 1" = 1'-0"

DIAPHRAGM ATTACHMENT SCHEDULE	
LOCATION	SPACING
DIAPHRAGM BOUNDARY AND CONTINUOUS PANEL EDGES	2 1/2" O.C. U.N.O.
FIELD STAPLES (EACH WAY)	10" O.C.
NON-CONTINUOUS PANEL EDGES	4" O.C.

- NOTES:**
- ATTACHMENT IS WITH 16 GAUGE x 1 1/2" MINIMUM STAPLES WITH 7/16" CROWN MINIMUM.
  - MINIMUM STAPLE LENGTH SHALL BE WOOD PANEL THICKNESS +1".
  - ALL FASTENERS SHALL BE DRIVEN FLUSH WITH SURFACE OF STRUCTURAL PANEL - DO NOT OVER DRIVE.

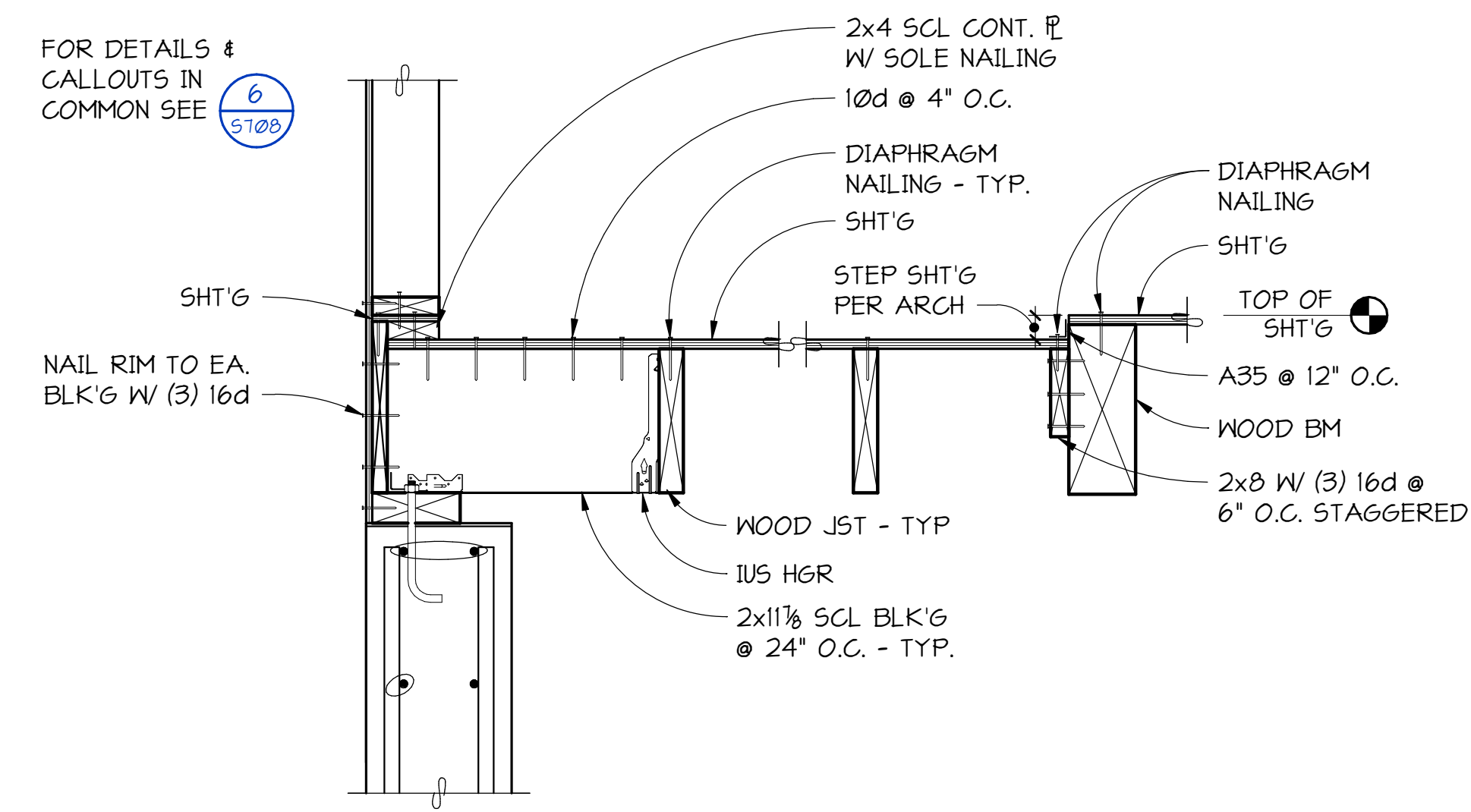


6 DETAIL  
5103 NO SCALE

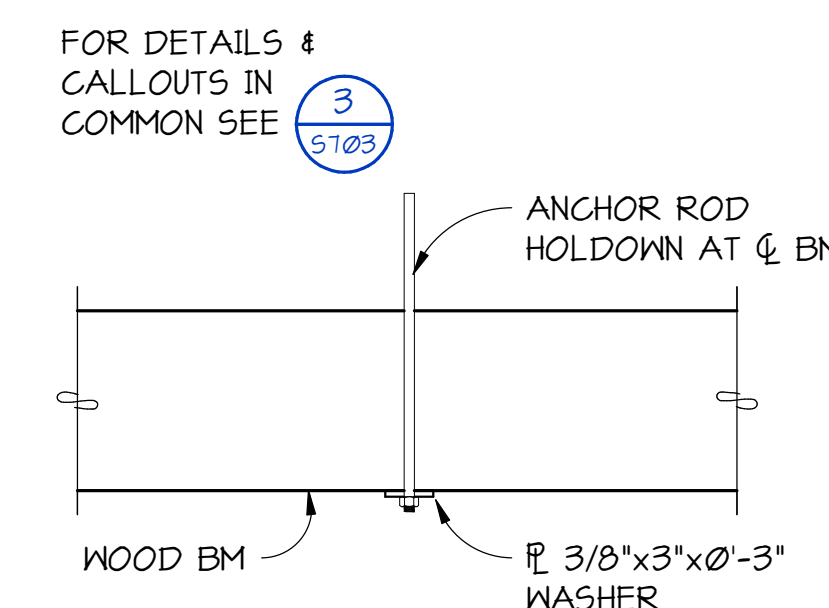


- NOTES:**
- AT SUPPORTS PARALLEL TO CORRUGATIONS, PROVIDE PUDDLE WELDS AT 24" ON CENTER MAXIMUM.
  - "SHEARED SIDE LAP" CONNECTION REFERS TO "PUNCHLOK" BY VERGO DECKING, INC. OR "DELTA GRIP" BY ASC STEEL DECK, OR PREAPPROVED EQUAL.
  - MINIMUM DECK PROPERTIES AND WELD PATTERN SHOWN.
  - SECTION PROPERTIES ARE BASED ON F<sub>y</sub> = 50 KSI.

7 TYPICAL ROOF METAL DECK SECTION  
5103 1" = 1'-0"



8 SECTION  
5103 1" = 1'-0"



9 SECTION  
5103 1" = 1'-0"

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Polson Building  
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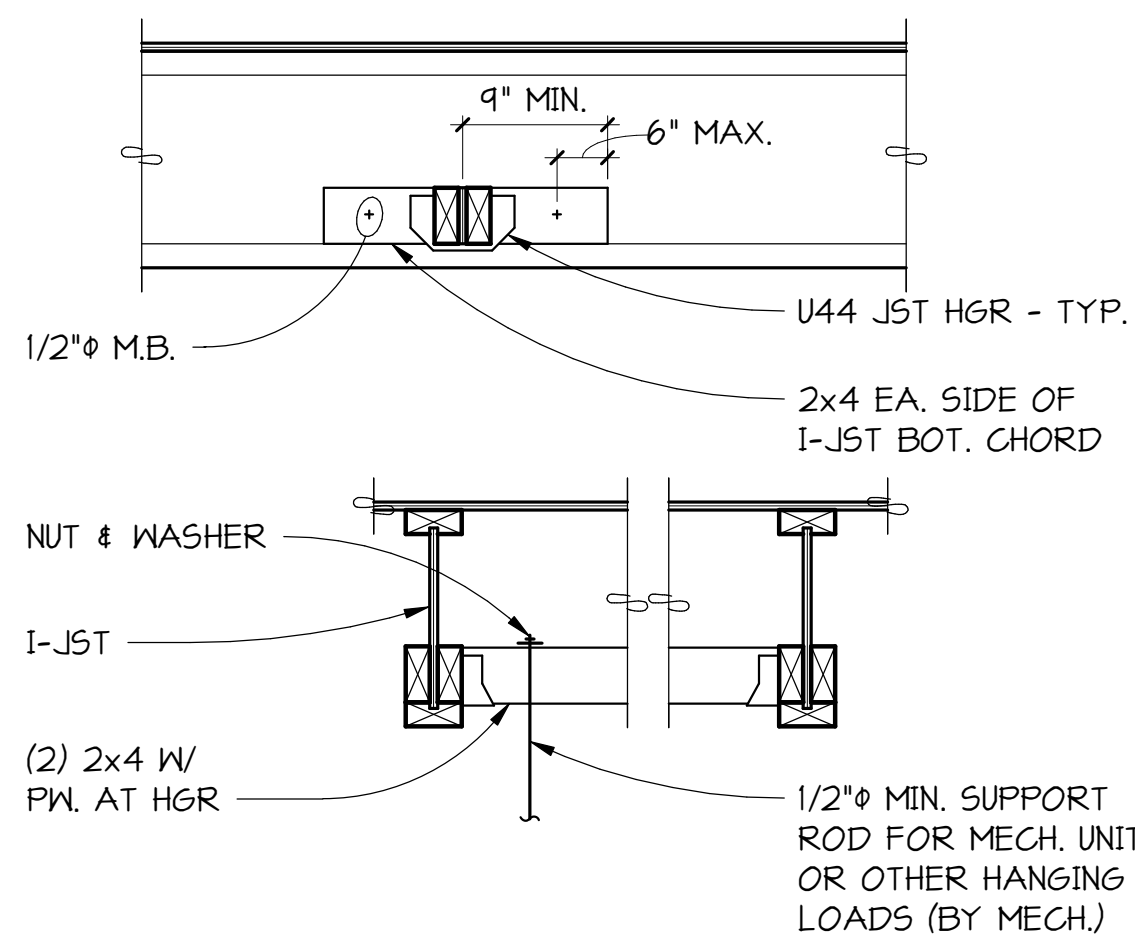
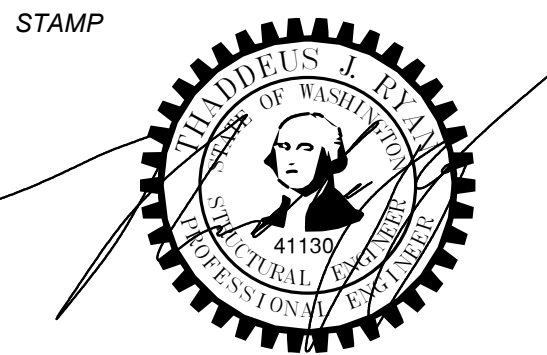
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**WOOD FRAMING DETAILS S703**

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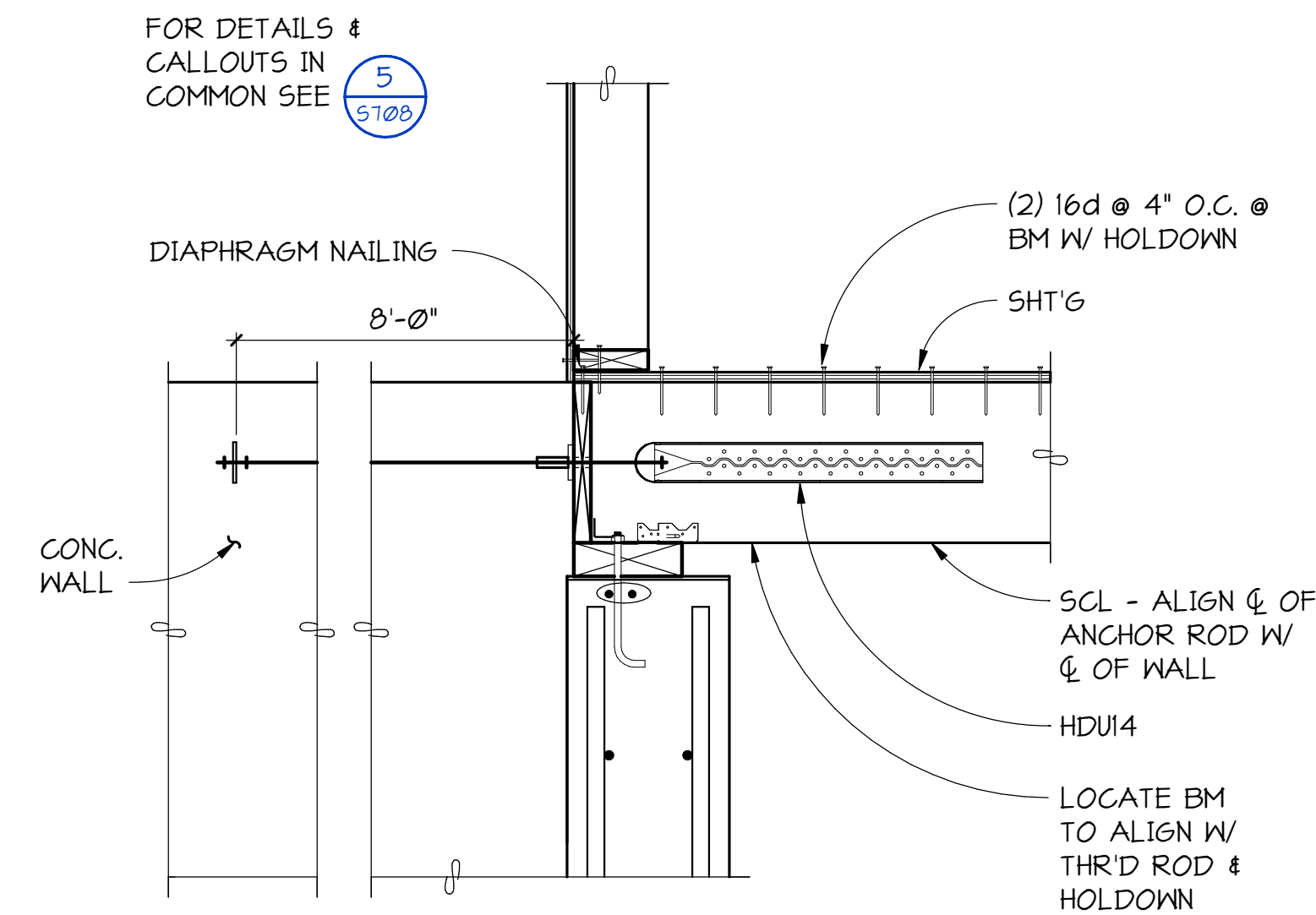
STAMP



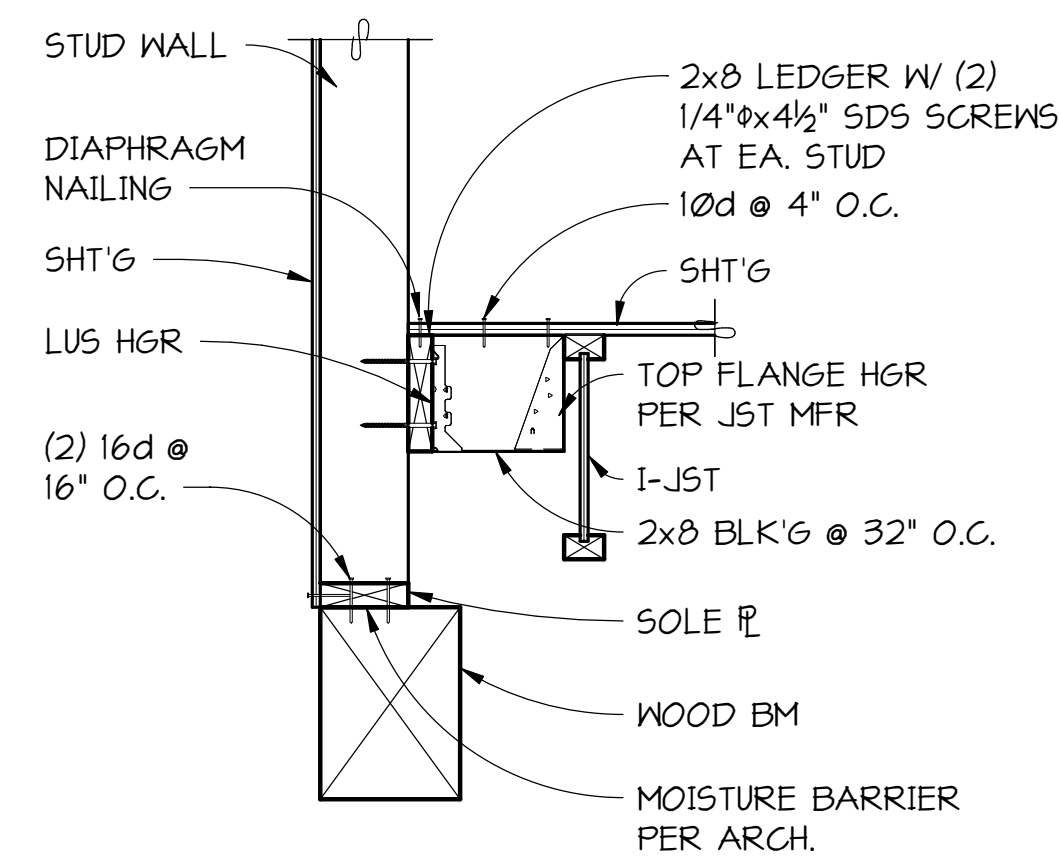
NOTES:  
1. ALL FRAMING SHOWN BY GENERAL CONTRACTOR (EXCEPT BY SPRINKLER CONTRACTOR IF USED FOR SPRINKLER LINES.)  
2. DO NOT CUT OR DRILL THROUGH JOIST.  
3. MAXIMUM SUPPORT LOAD 500 POUNDS.

TYPICAL DETAIL FOR HANGING LOADS FROM I-JOIST  
(ALL HEAT PUMPS OR FANS OVER 90 POUNDS)

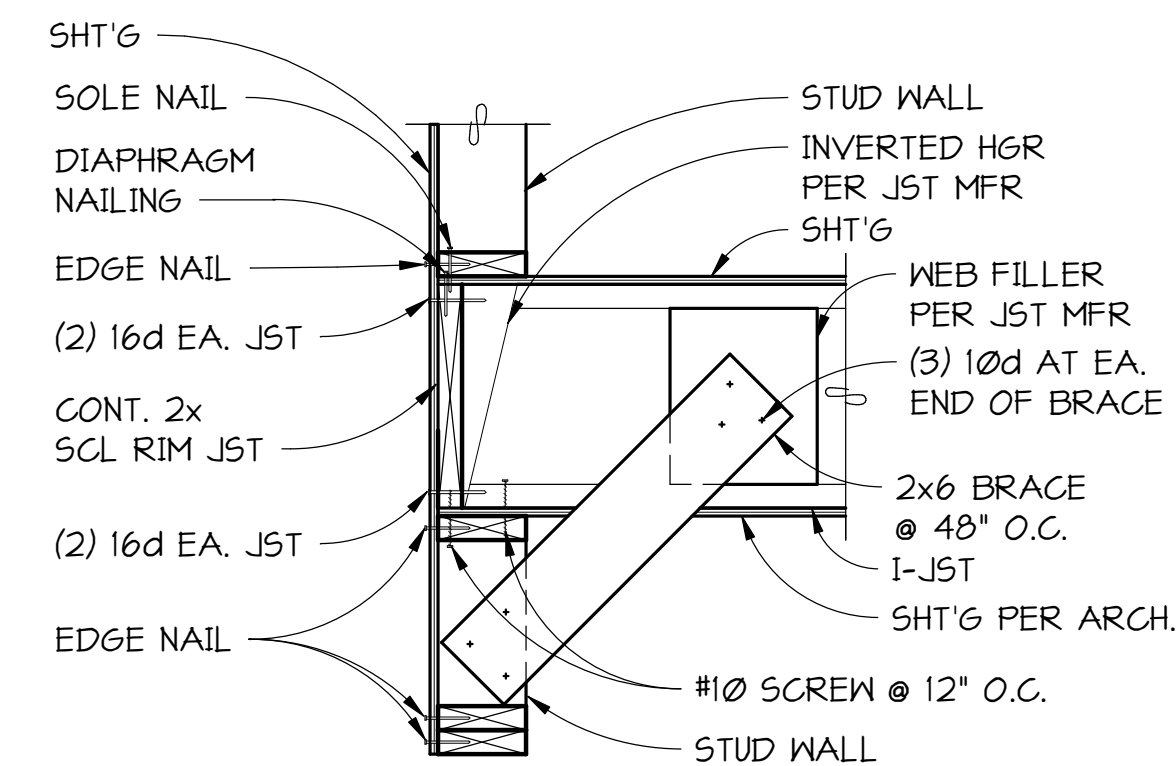
**1 SECTION**  
S704 NO SCALE



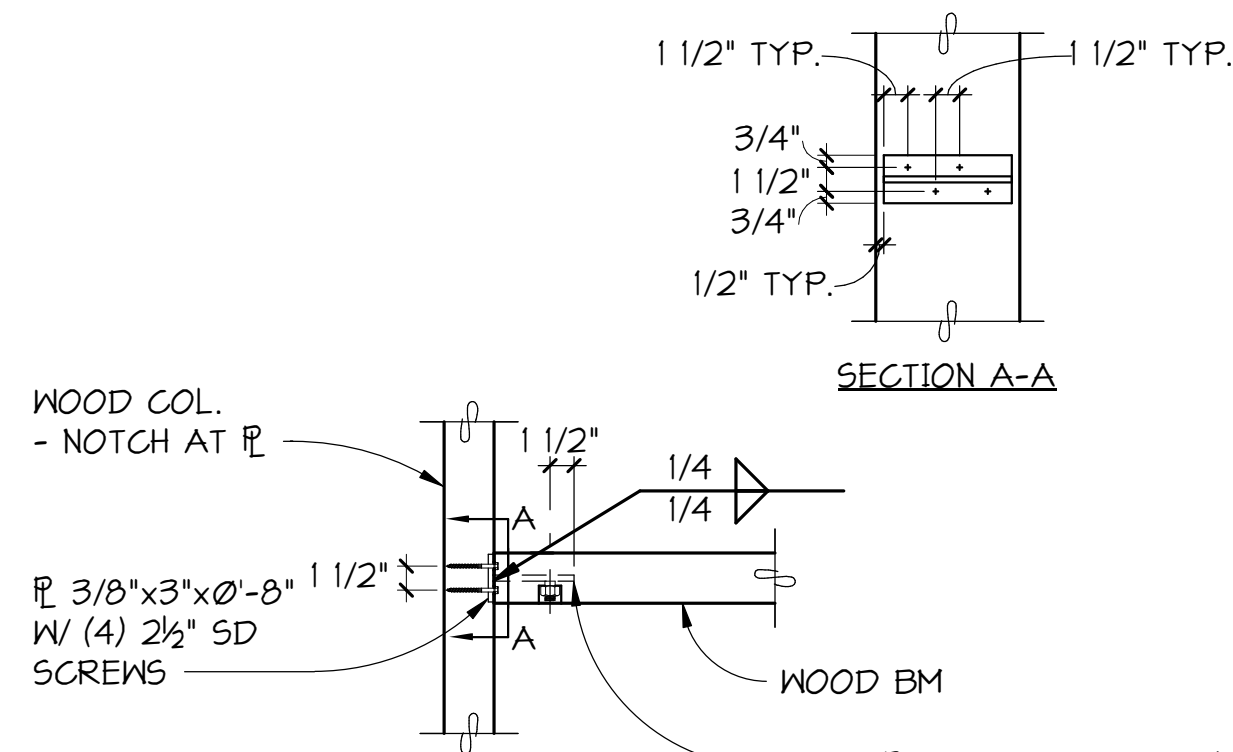
**2 DETAIL**  
S704 1" = 1'-0"



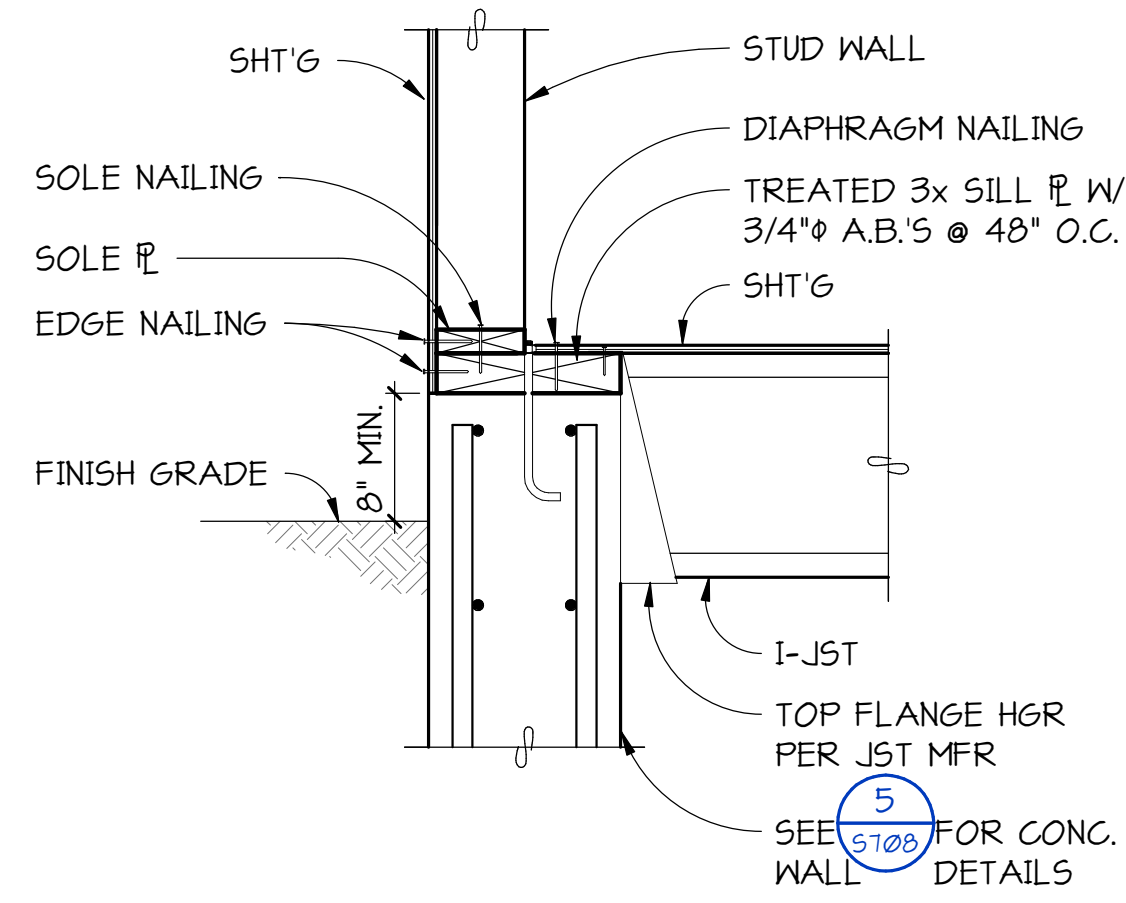
**3 SECTION**  
S704 1" = 1'-0"



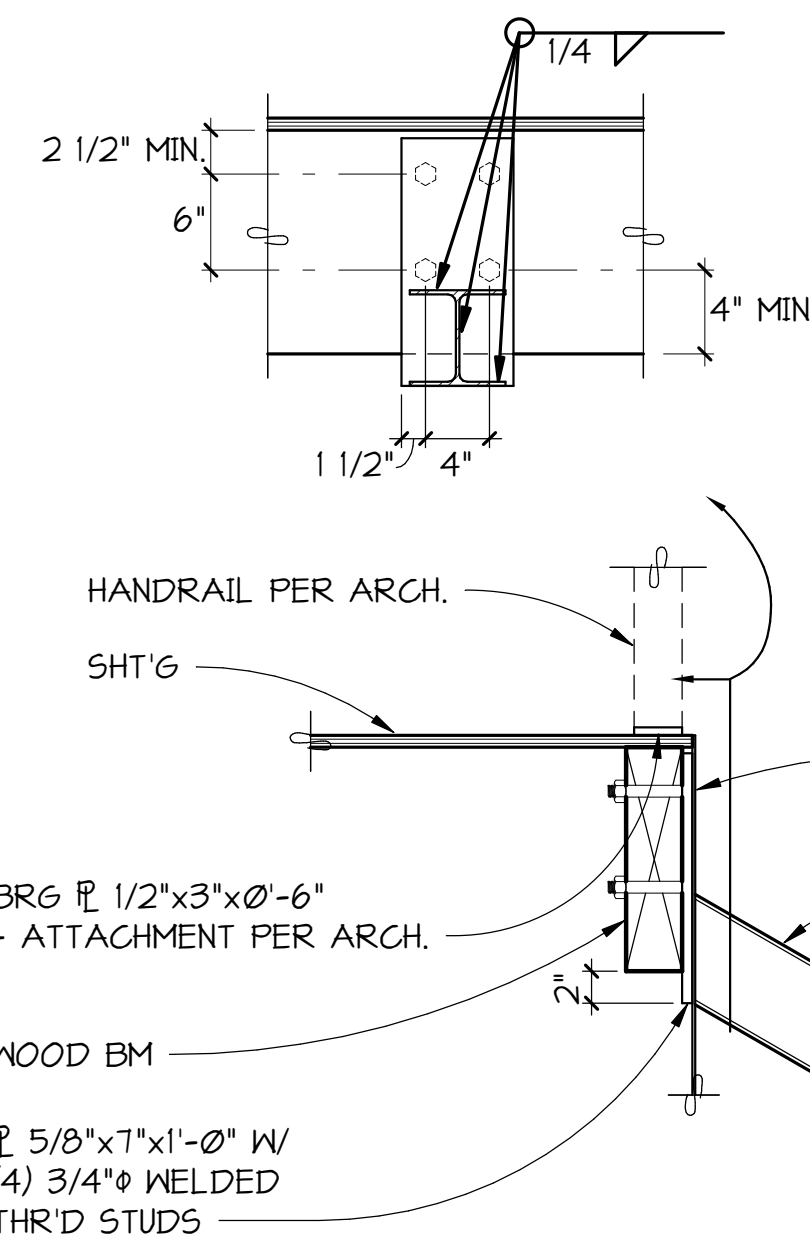
**4 SECTION**  
S704 NO SCALE



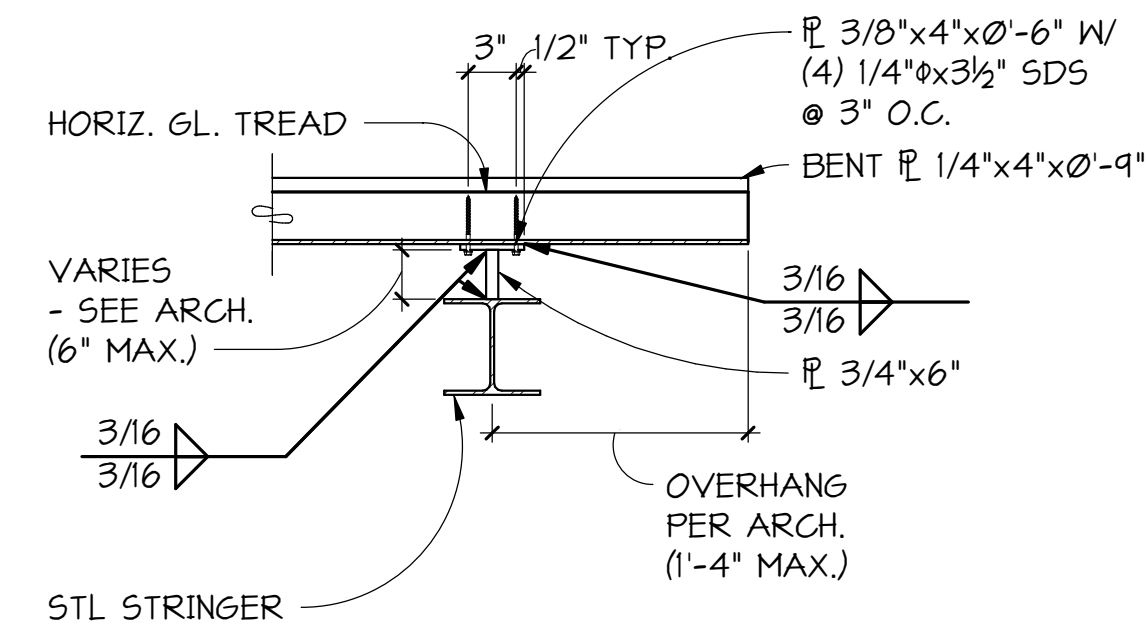
**5 DETAIL**  
S704 NO SCALE



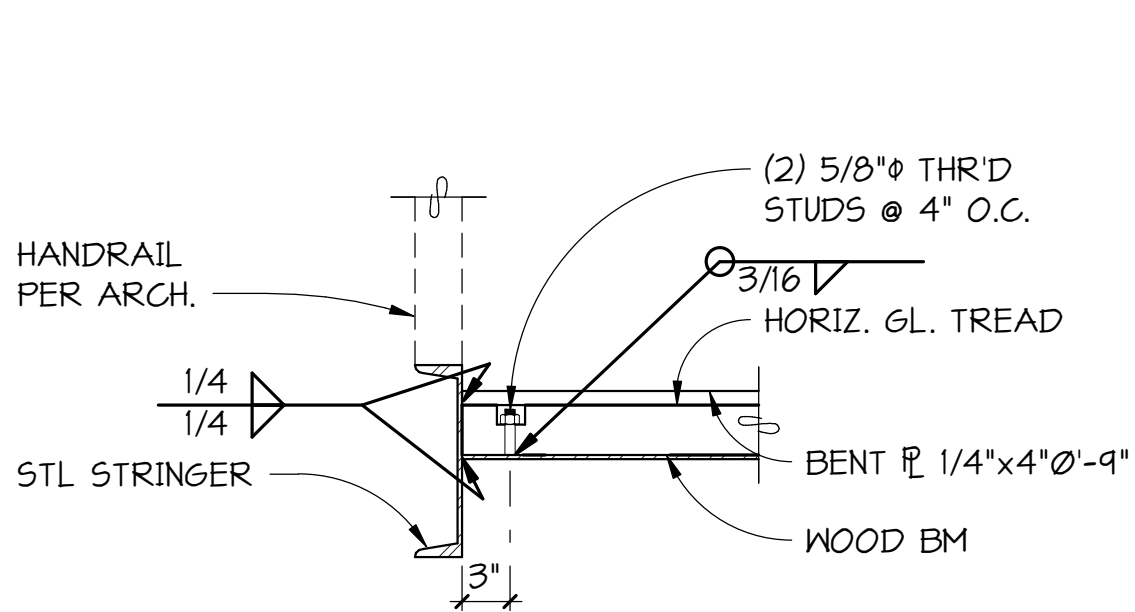
**6 SECTION**  
S704 NO SCALE



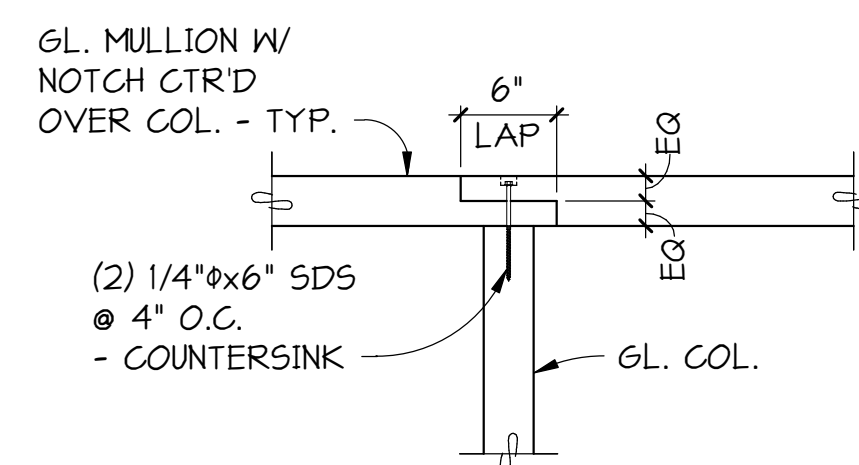
**7 DETAIL**  
S704 NO SCALE



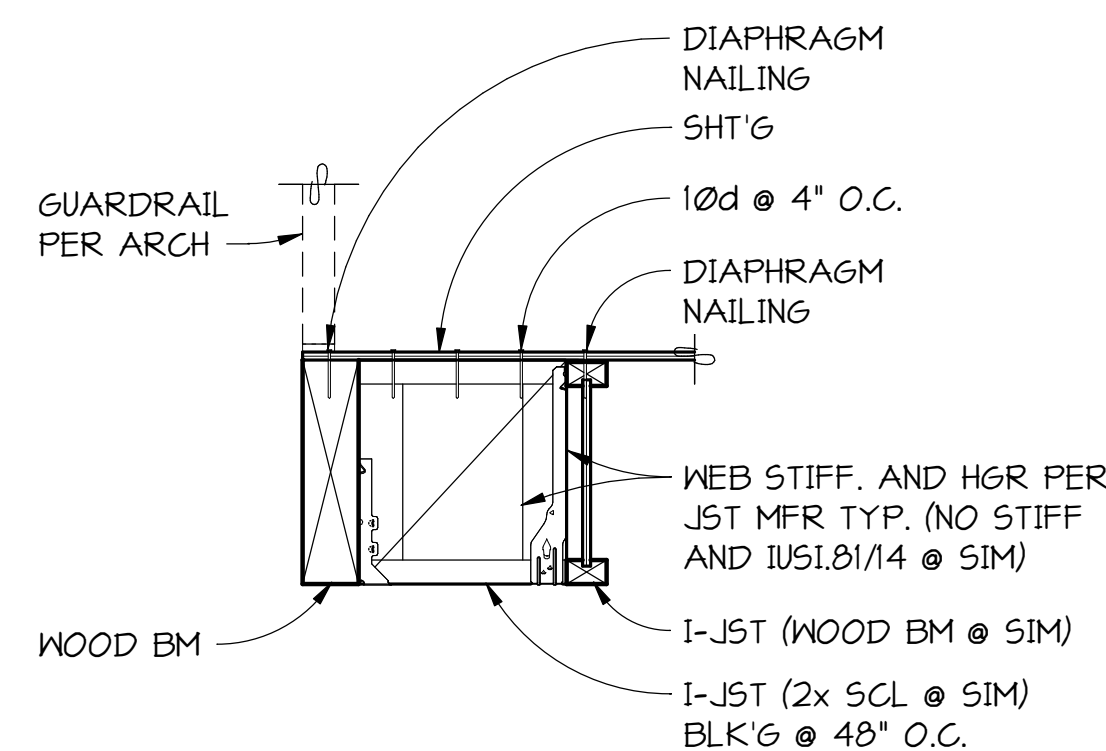
**8 SECTION**  
S704 NO SCALE



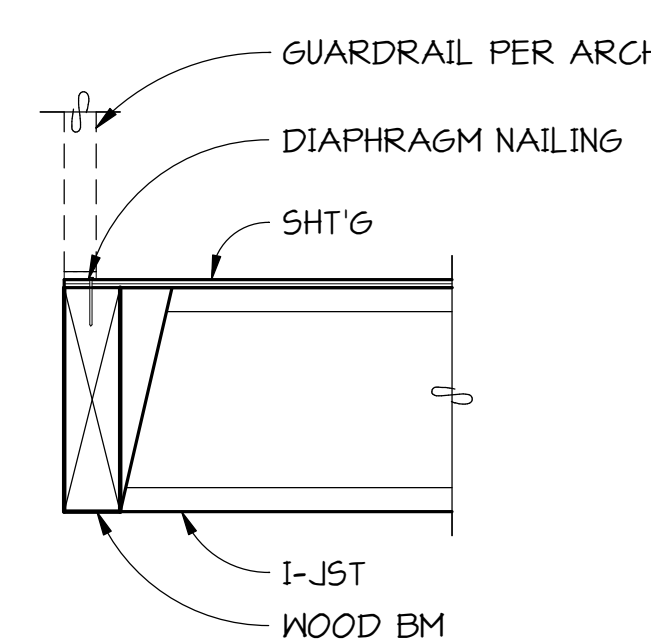
**9 SECTION**  
S704 NO SCALE



**10 SECTION**  
S704 NO SCALE



**11 SECTION**  
S704 NO SCALE



**12 SECTION**  
S704 NO SCALE

**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
MERCER ISLAND, WA 98040

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**100% CONSTRUCTION DOCUMENTS**

February 24, 2023

REVISIONS

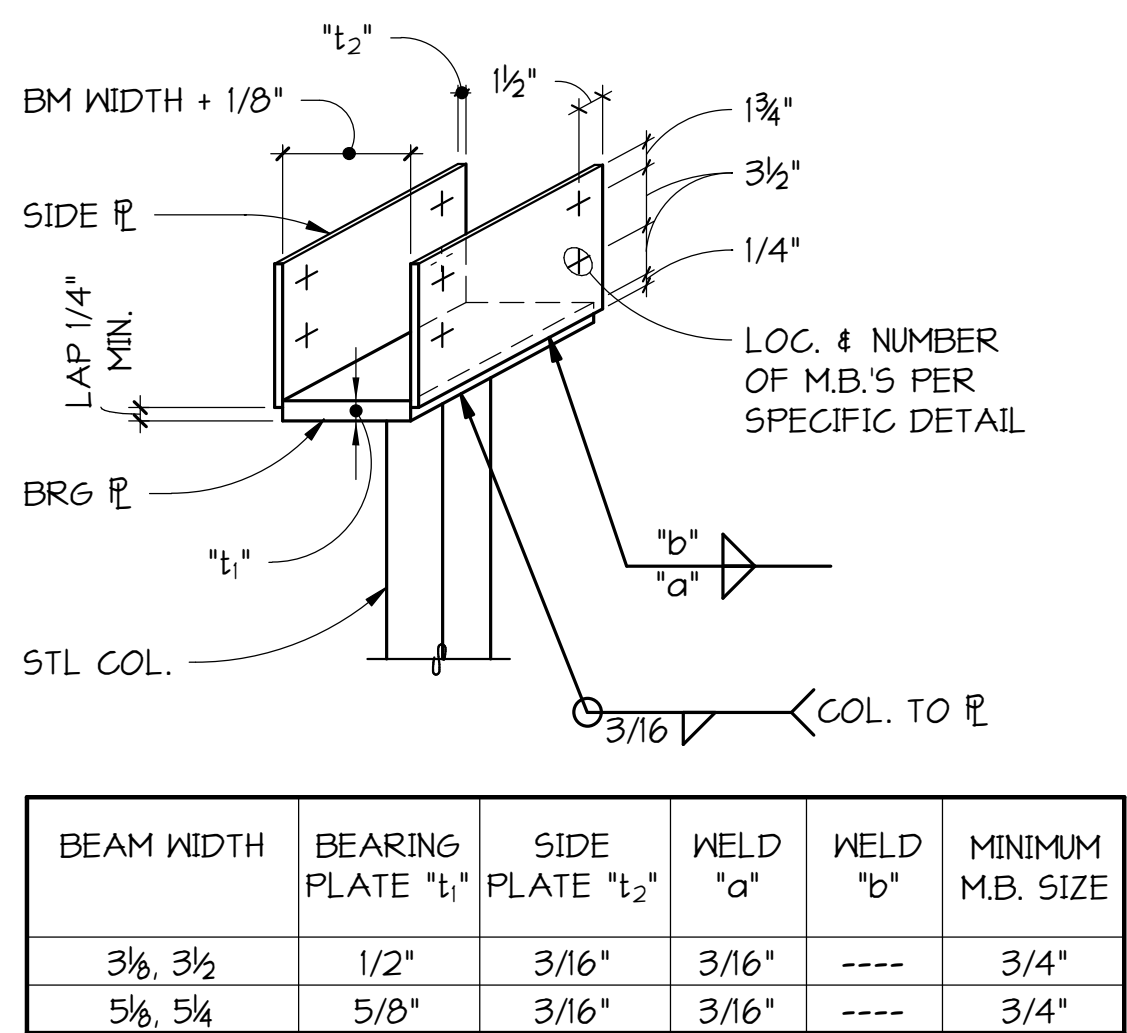
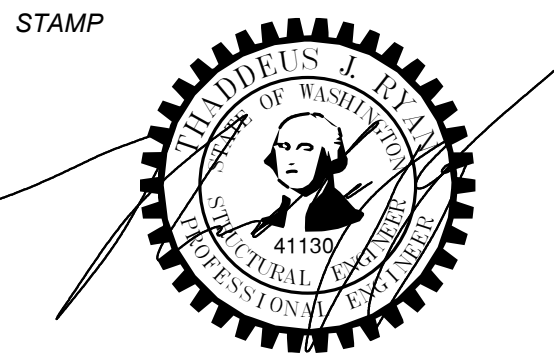
No.	Description	Date

Drawn: DEH  
Checked: TJR  
MJH Proj No.: A20.0085.00

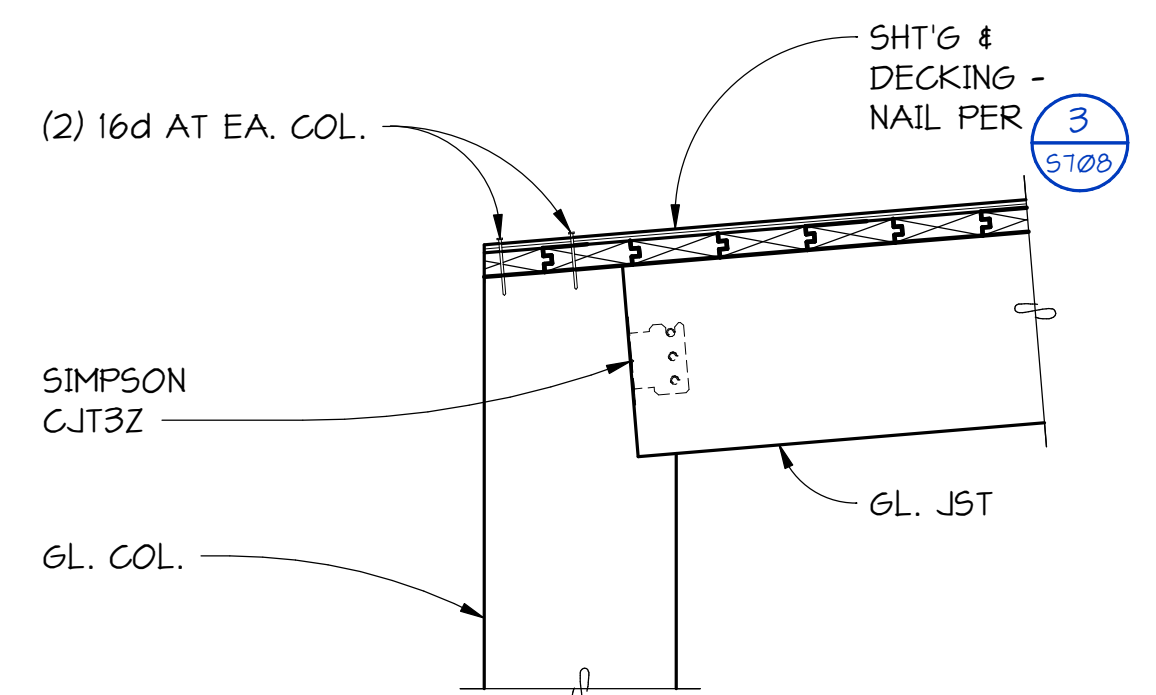
Issue Date: February 24, 2023

SHEET

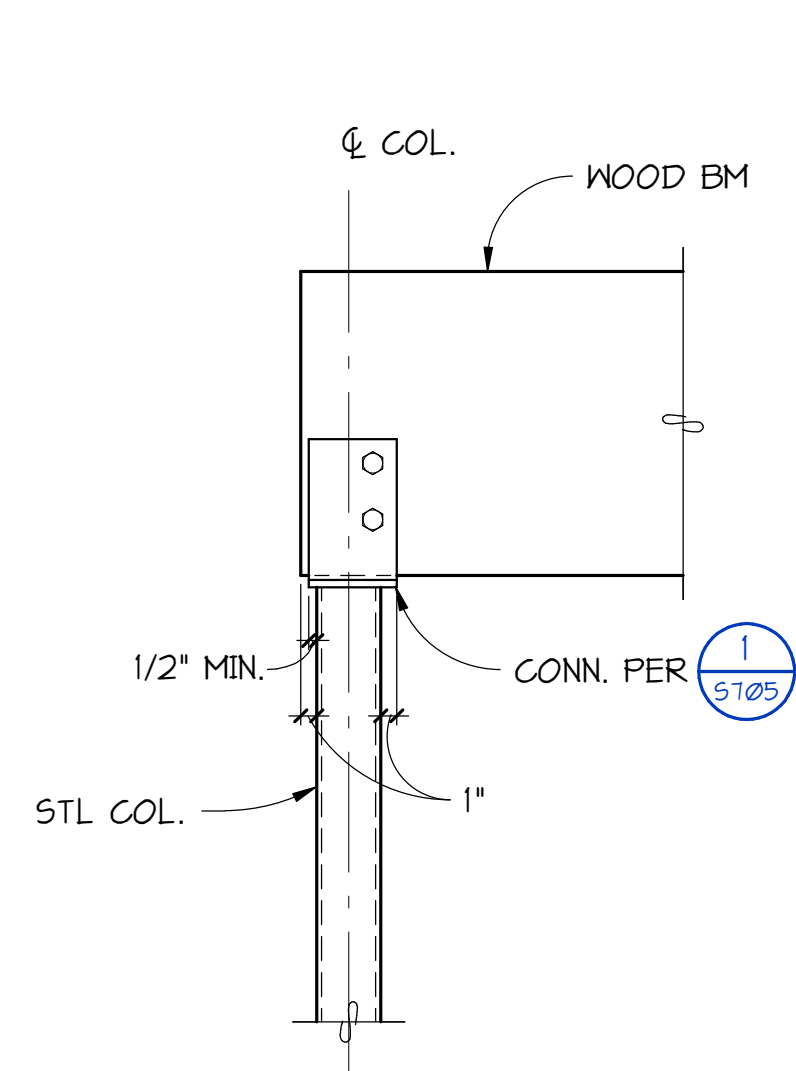
**WOOD FRAMING DETAILS S704**



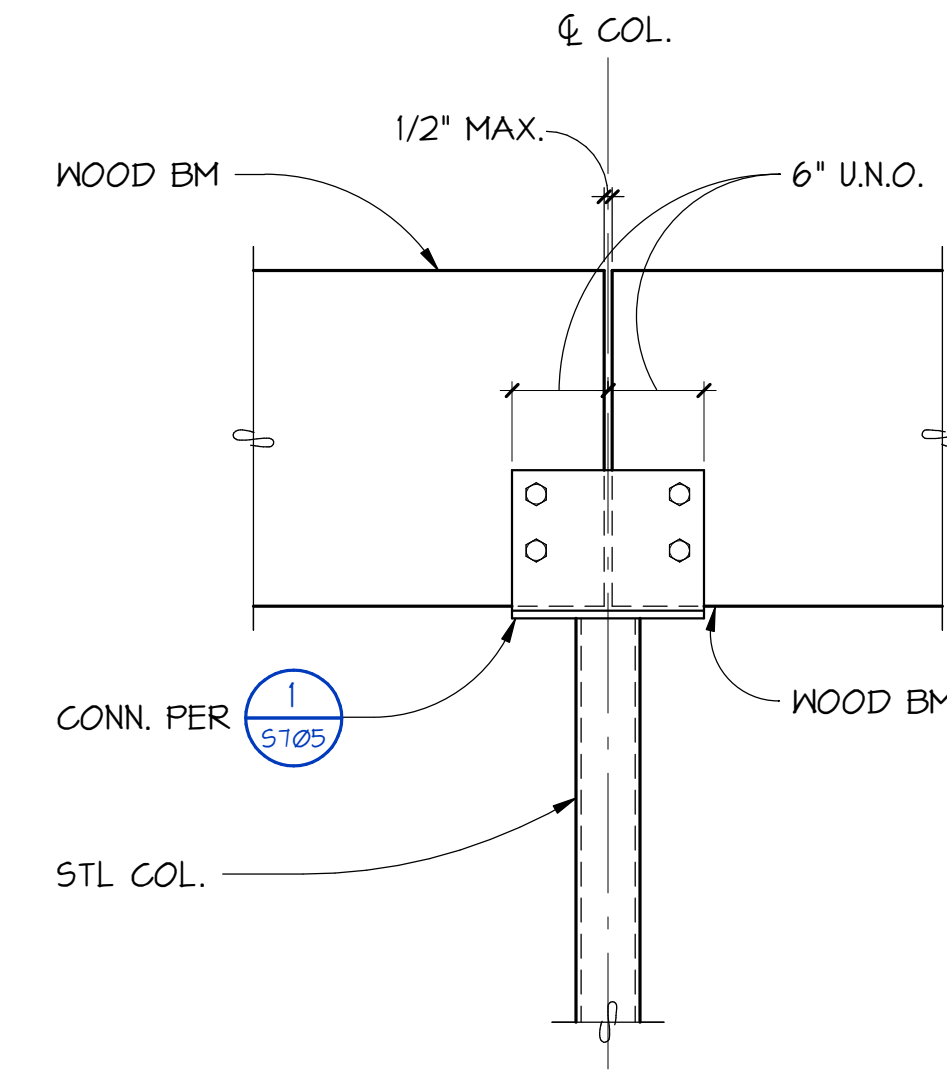
1 **DETAIL**  
 S705 NO SCALE



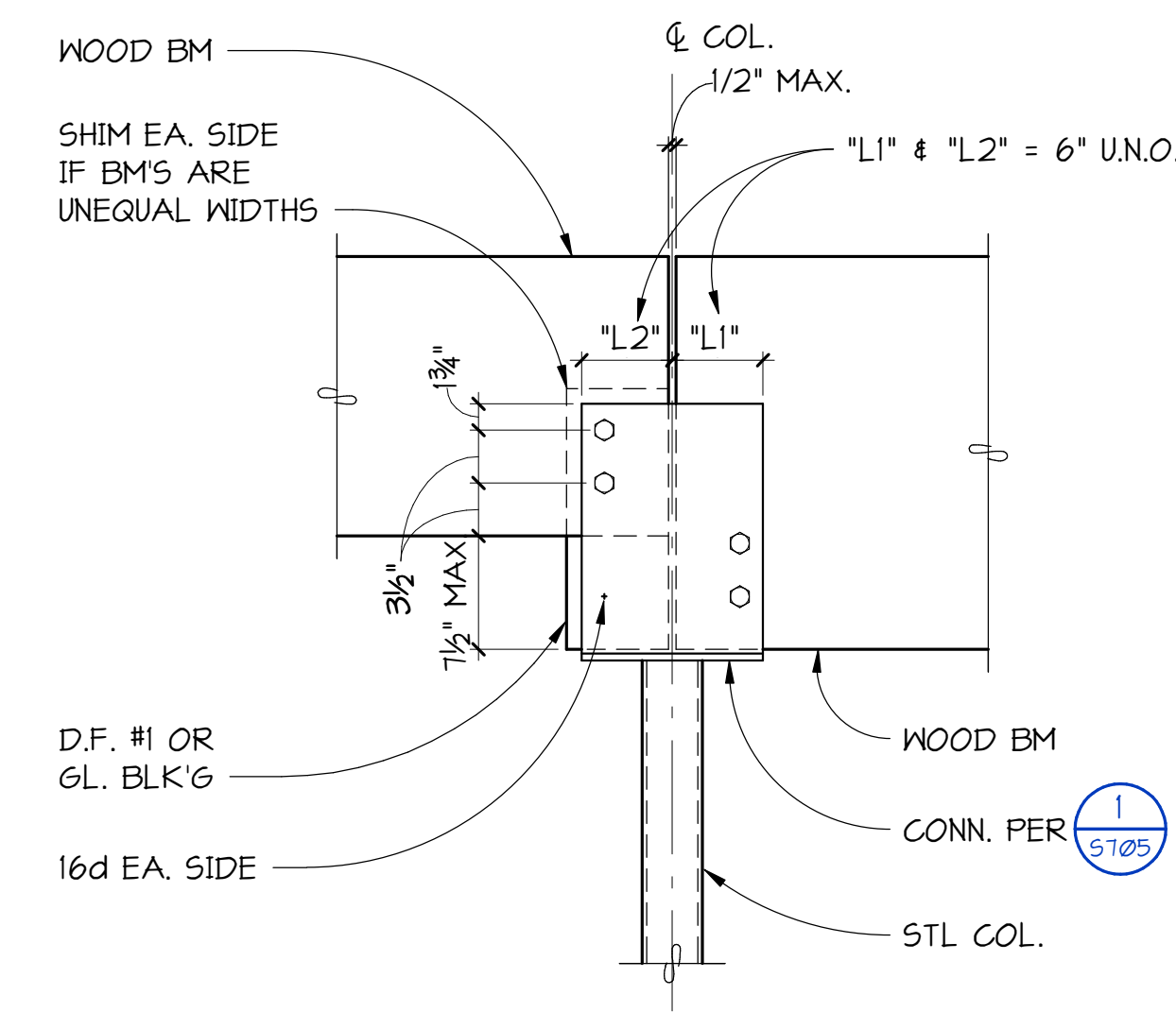
2 **SECTION**  
 S705 1" = 1'-0"



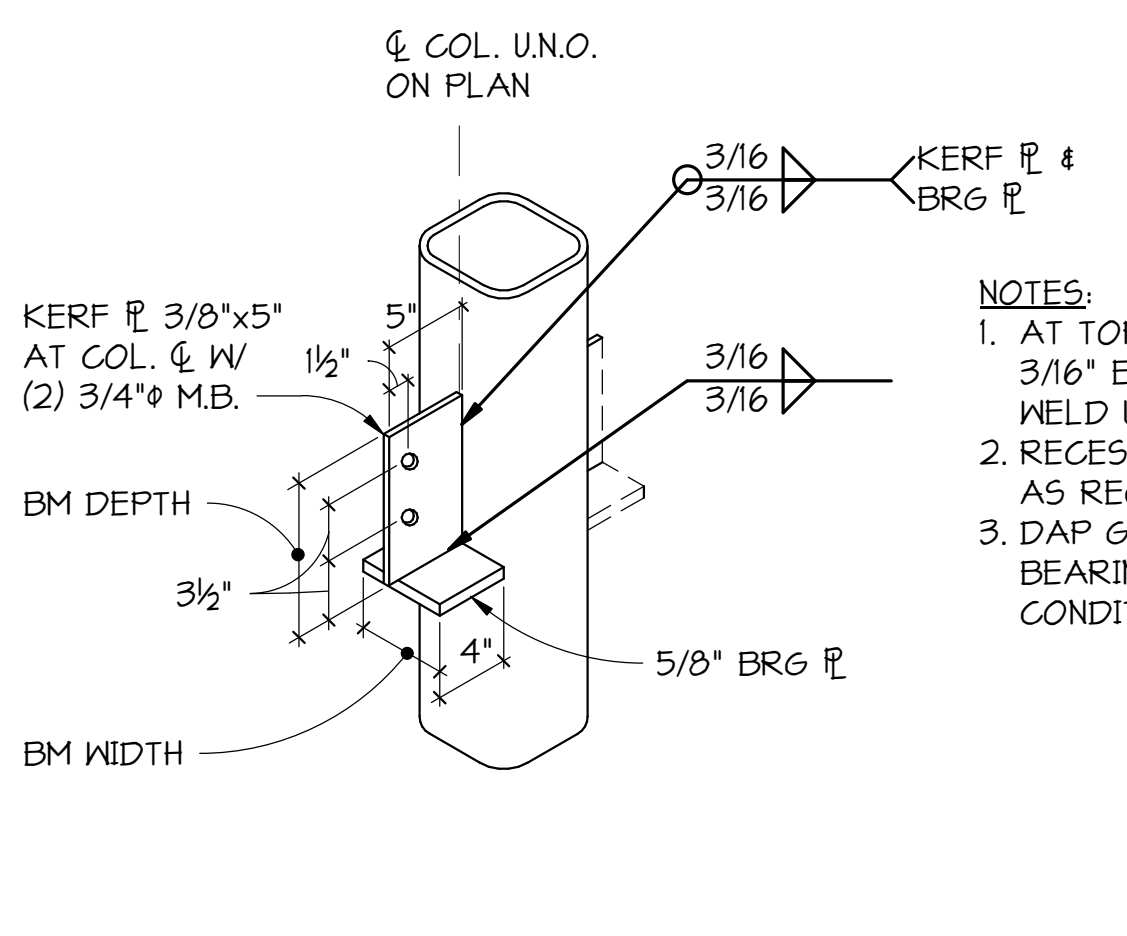
3 **SECTION**  
 S705 NO SCALE



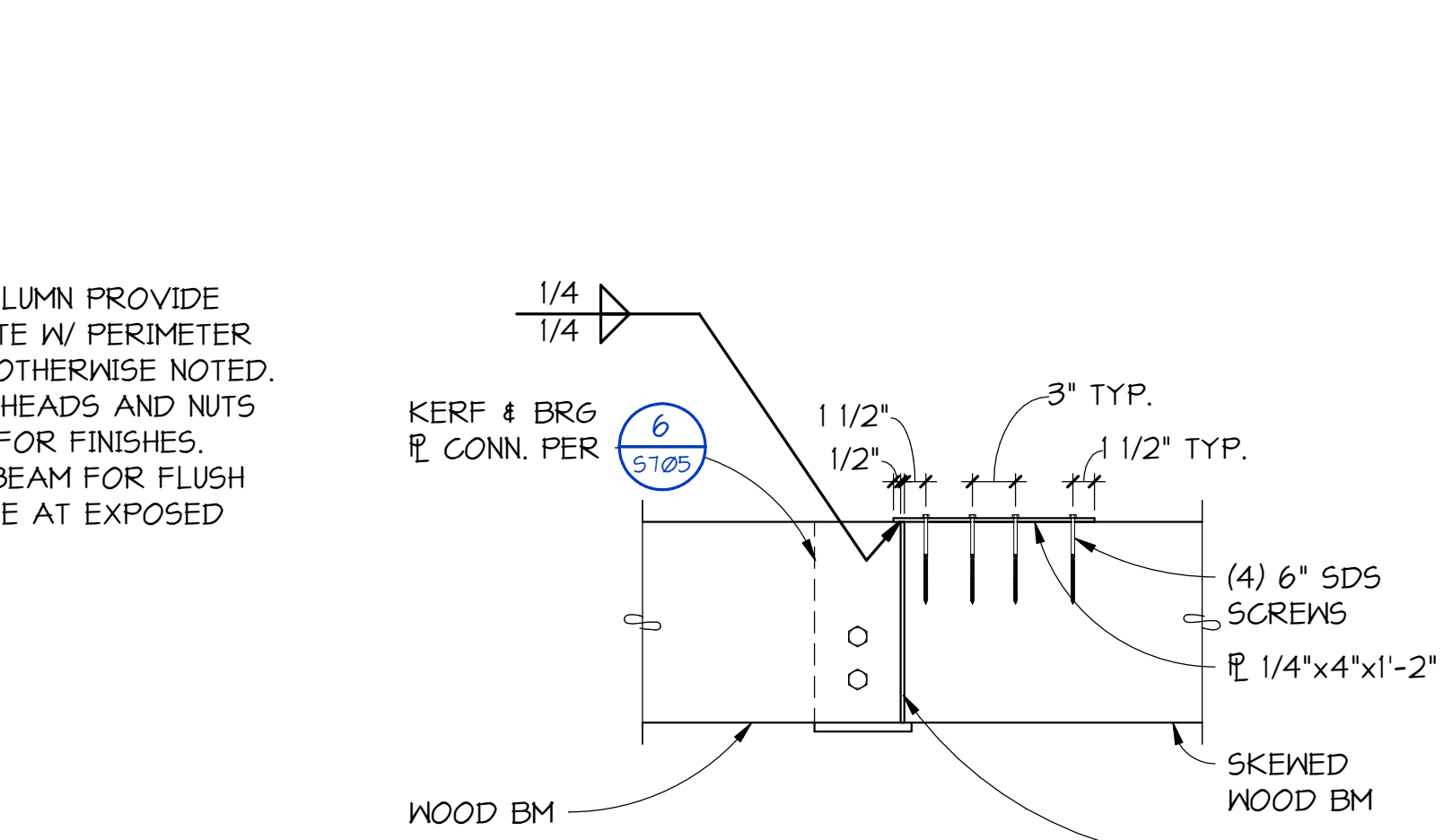
4 **SECTION**  
 S705 NO SCALE



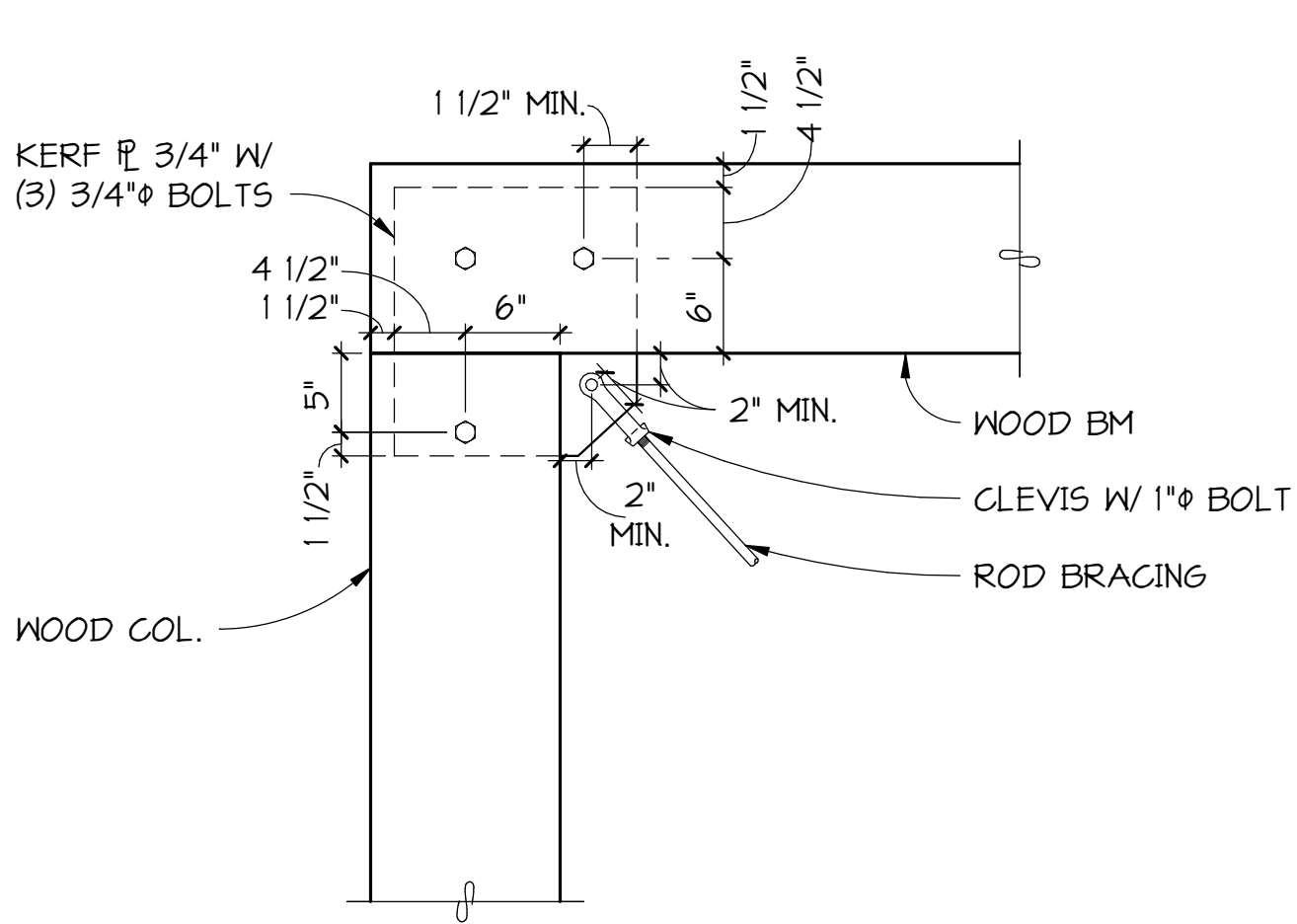
5 **SECTION**  
 S705 NO SCALE



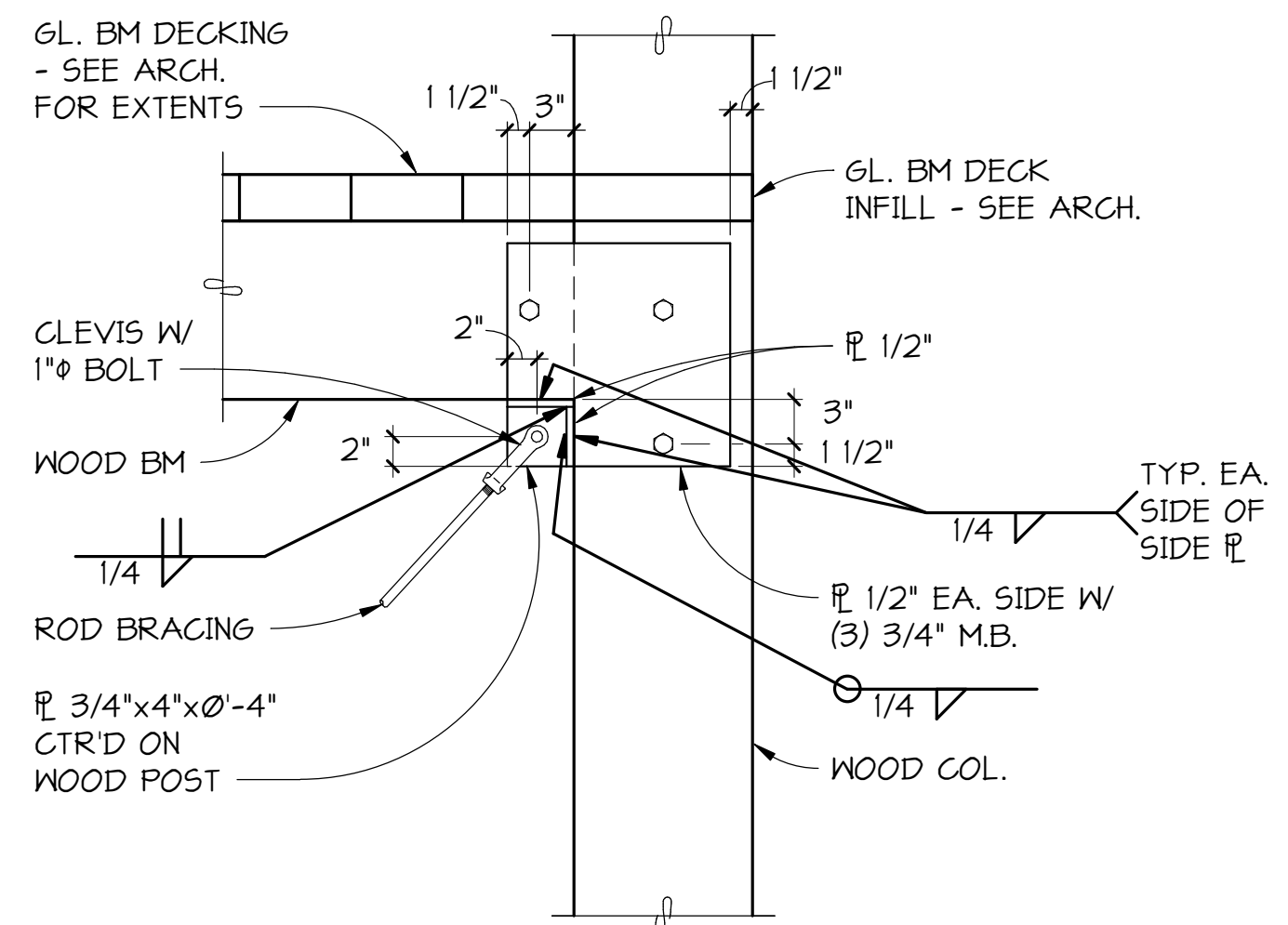
6 **DETAIL**  
 S705 NO SCALE



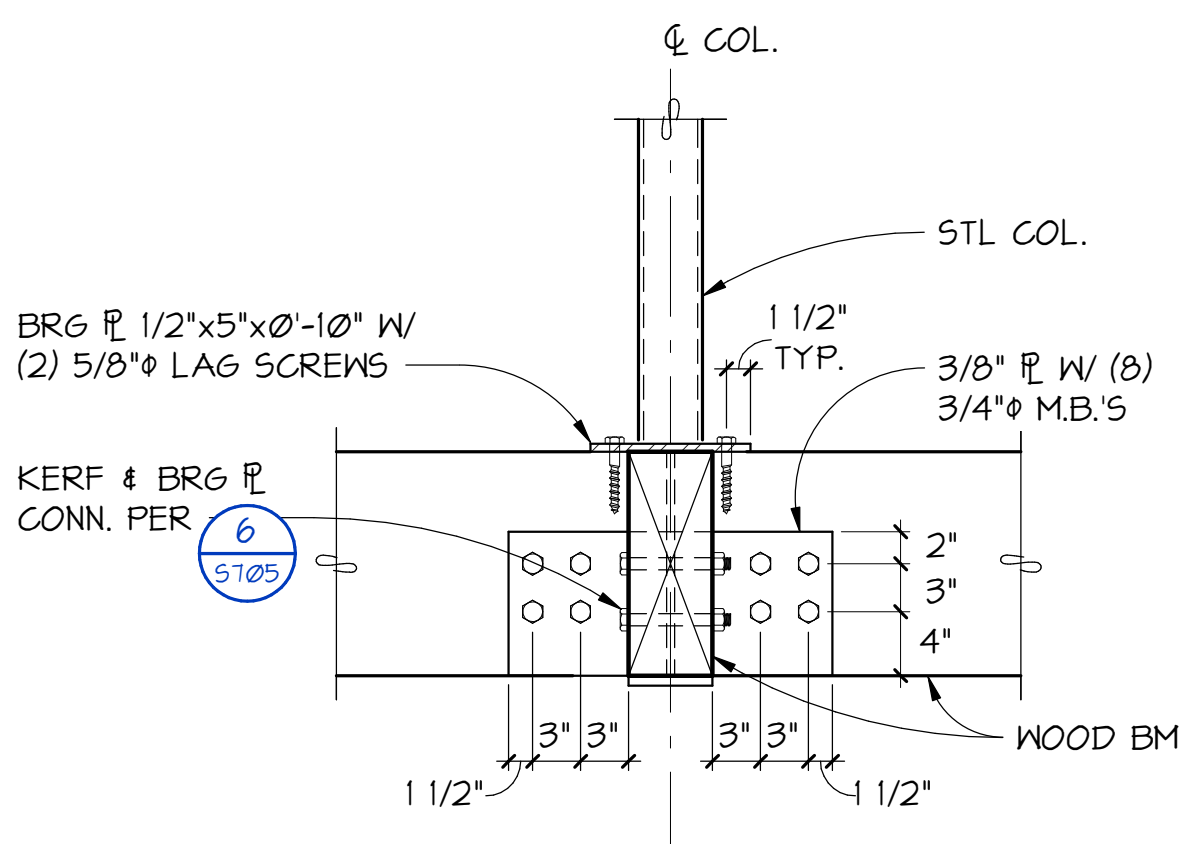
7 **DETAIL**  
 S705 1" = 1'-0"



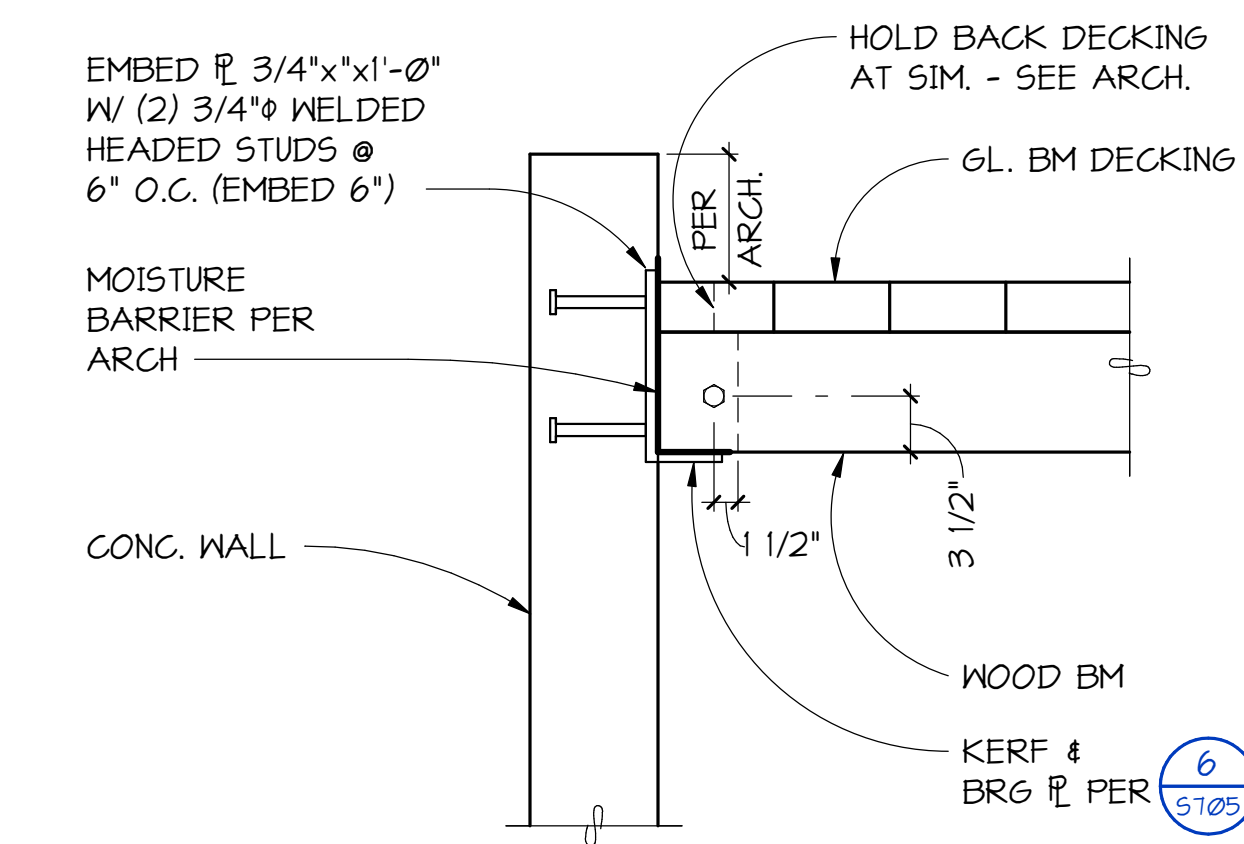
8 **DETAIL**  
 S705 NO SCALE



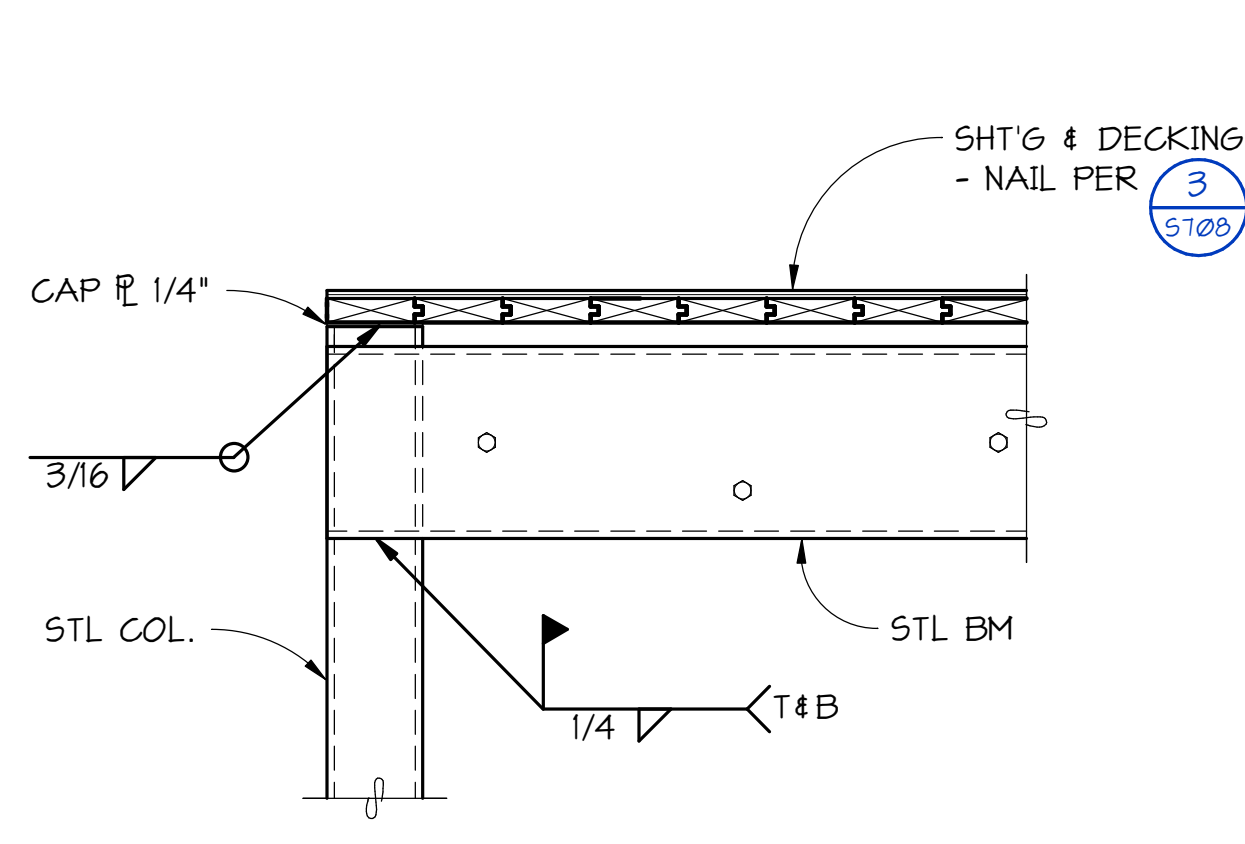
9 **DETAIL**  
 S705 NO SCALE



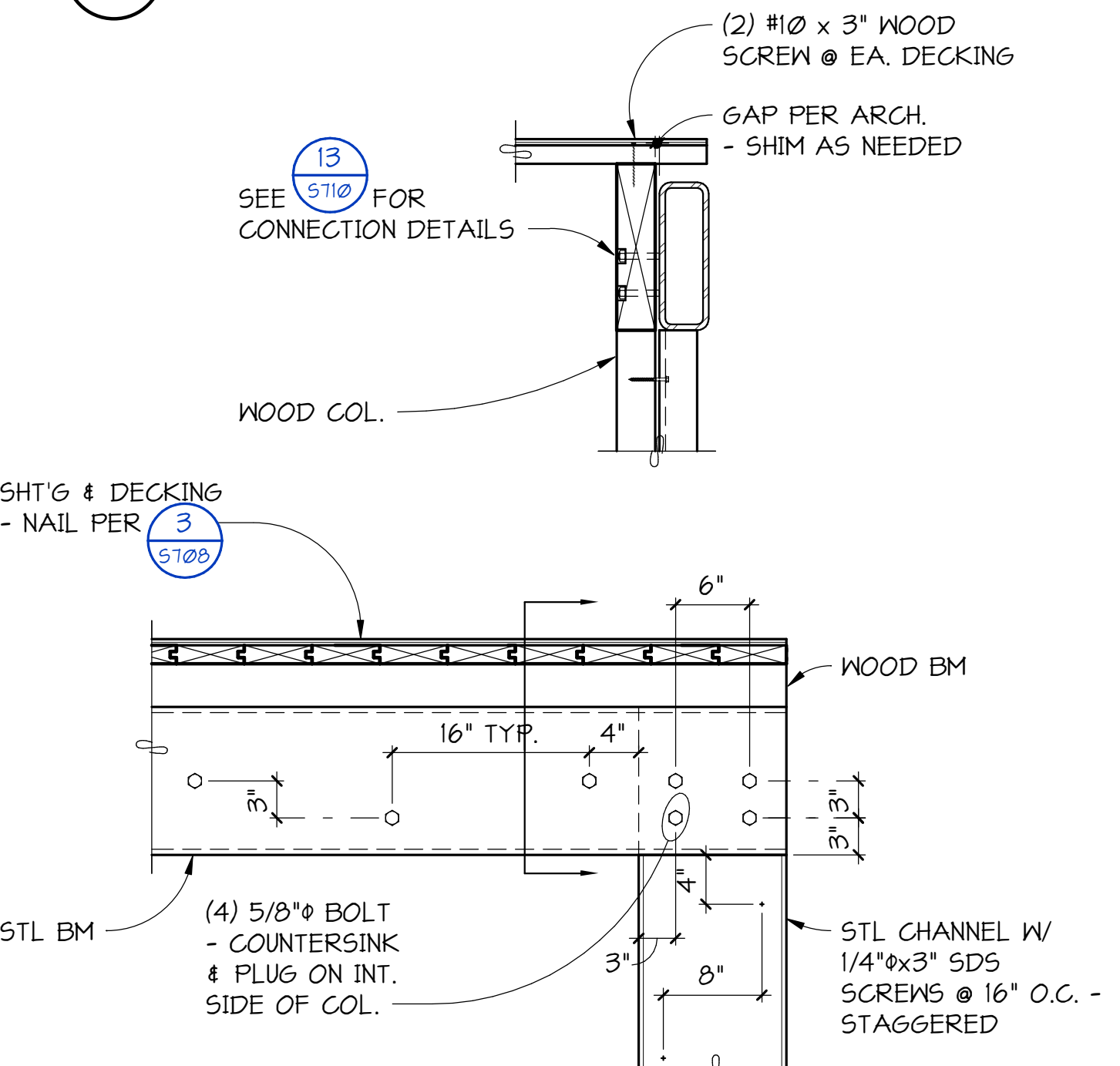
10 **DETAIL**  
 S705 1" = 1'-0"



11 **SECTION**  
 S705 NO SCALE



12 **DETAIL**  
 S705 NO SCALE



13 **DETAIL**  
 S705 NO SCALE

**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

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**100% CONSTRUCTION DOCUMENTS**

February 24, 2023

REVISIONS	No.	Description	Date

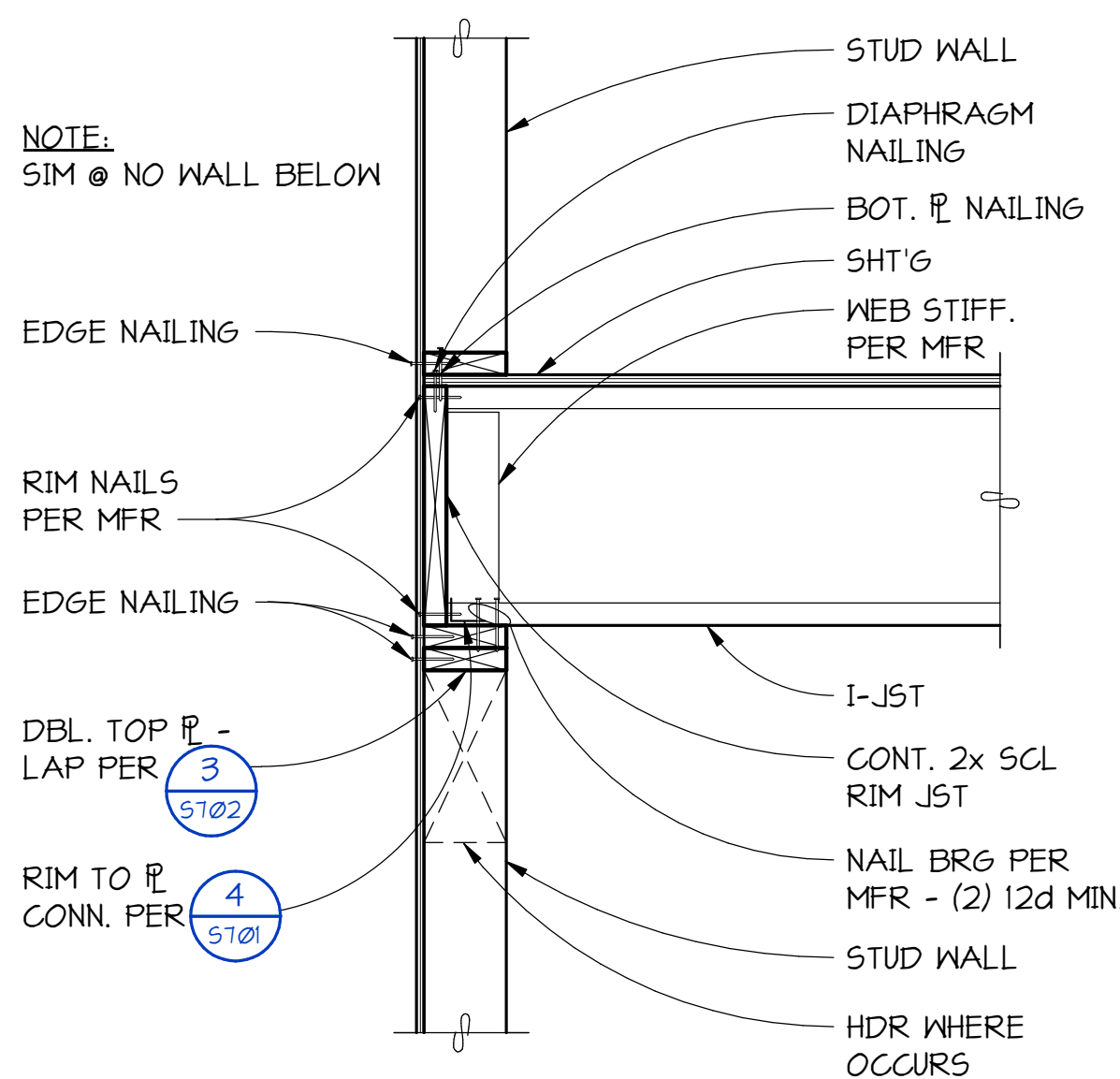
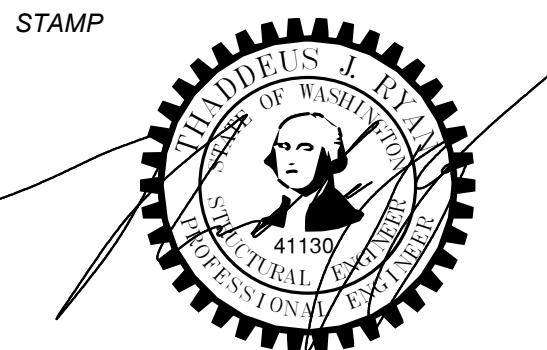
Drawn: DEH  
 Checked: TJR  
 MJH Proj No.: A20.0085.00

Issue Date: February 24, 2023

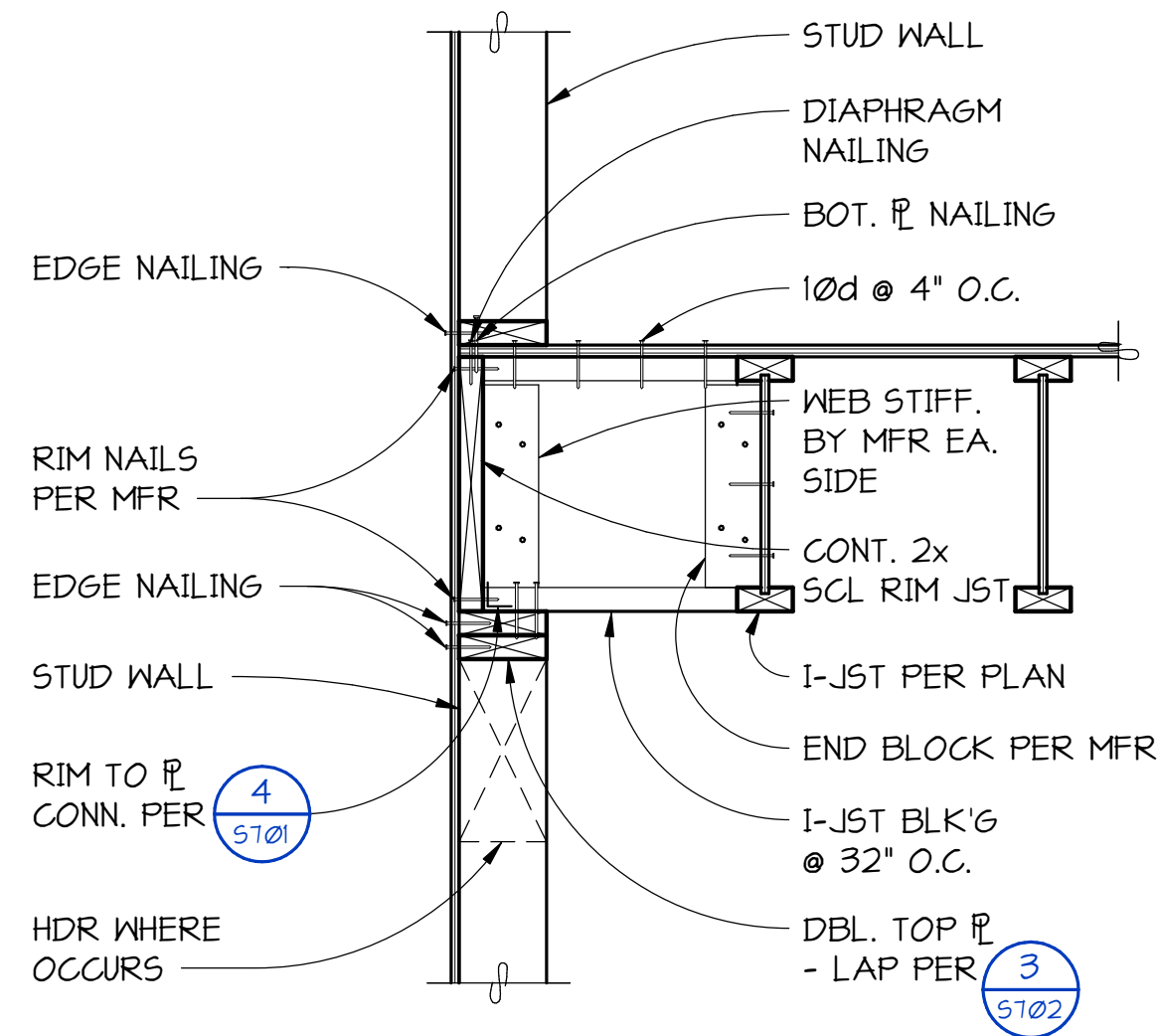
SHEET

**WOOD FRAMING DETAILS S705**

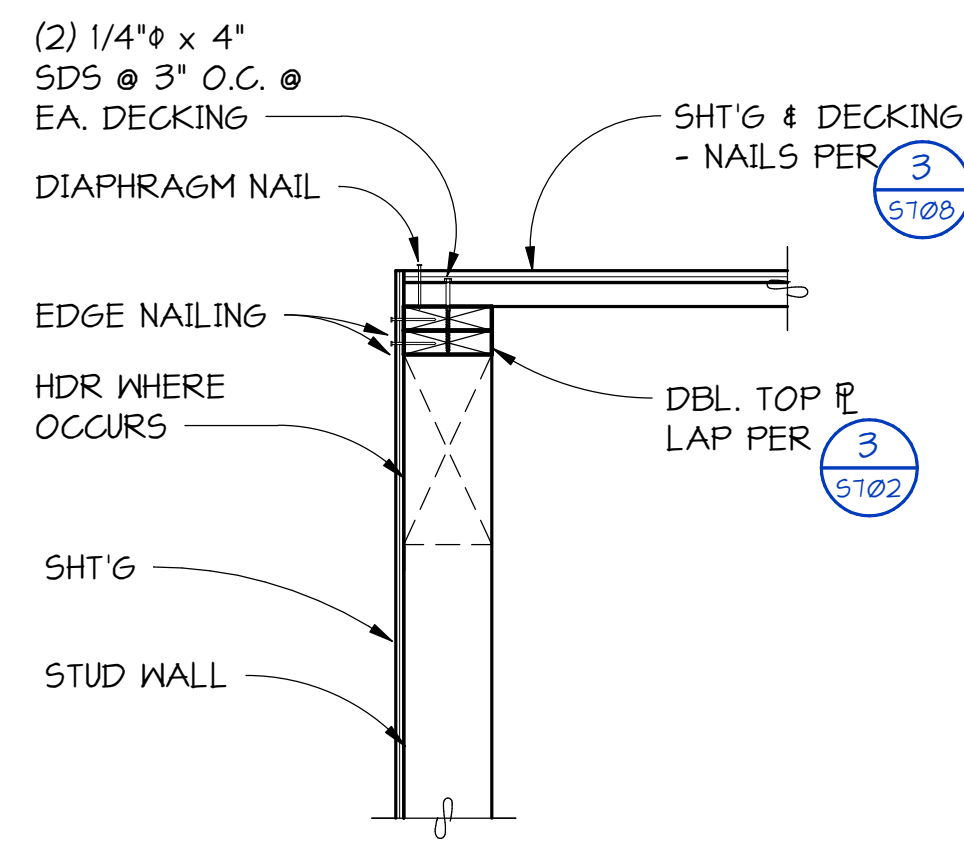
STAMP



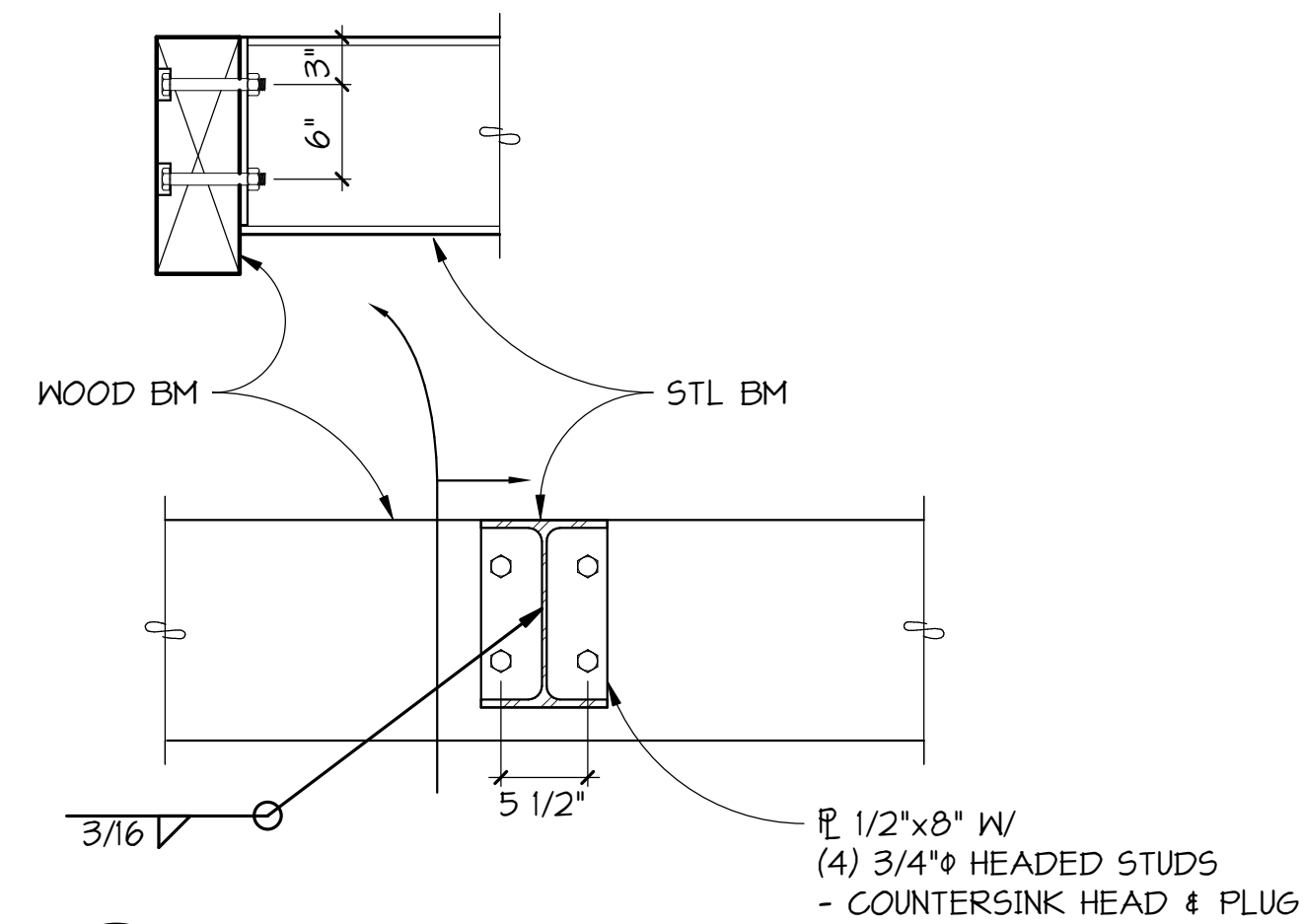
**1 SECTION**  
 S106 NO SCALE



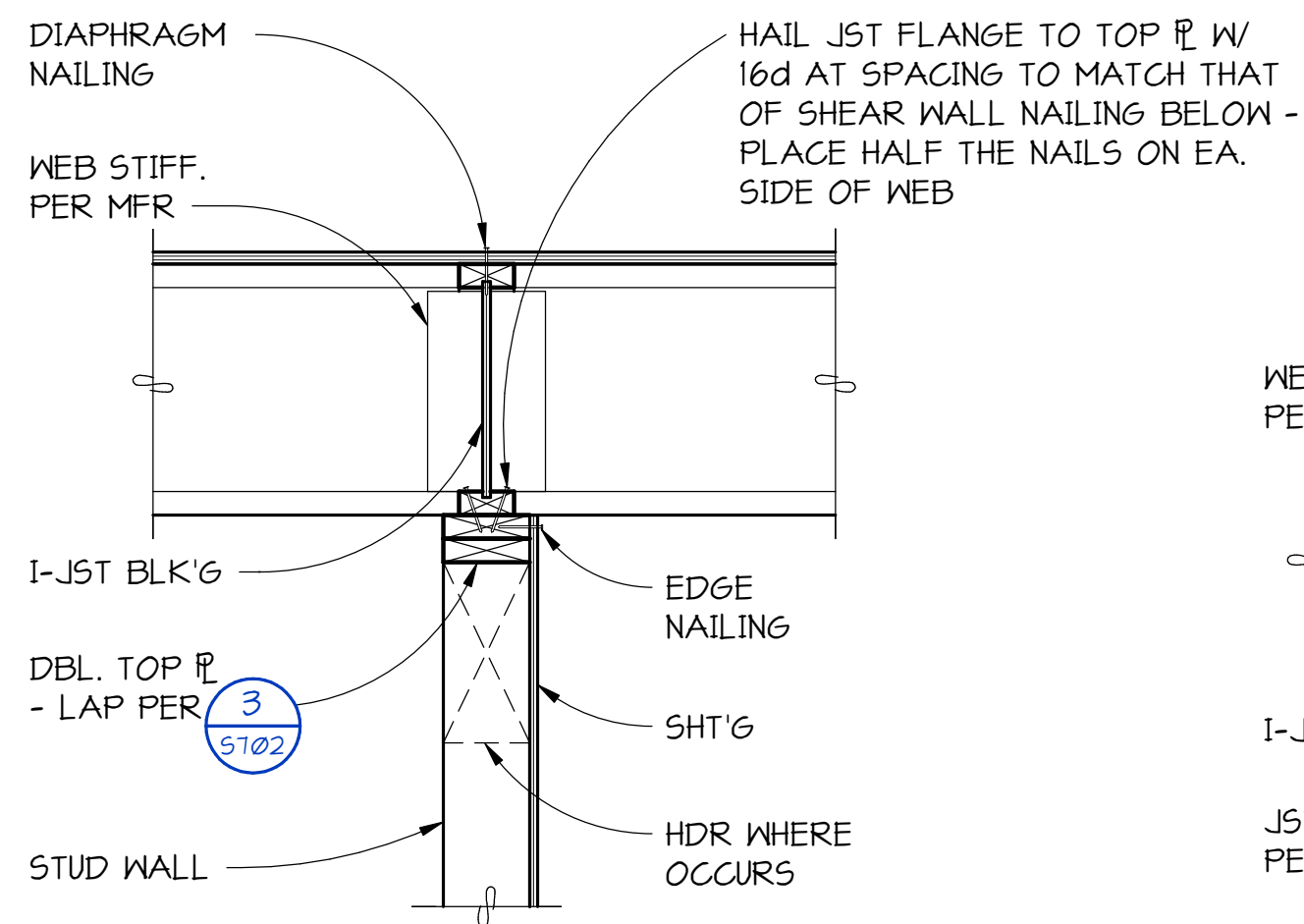
**2 SECTION**  
 S106 NO SCALE



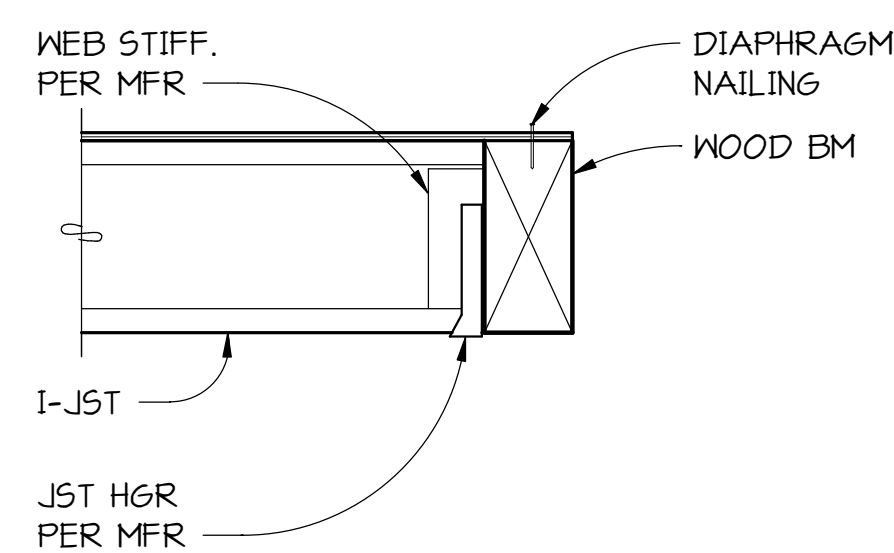
**3 SECTION**  
 S106 1" = 1'-0"



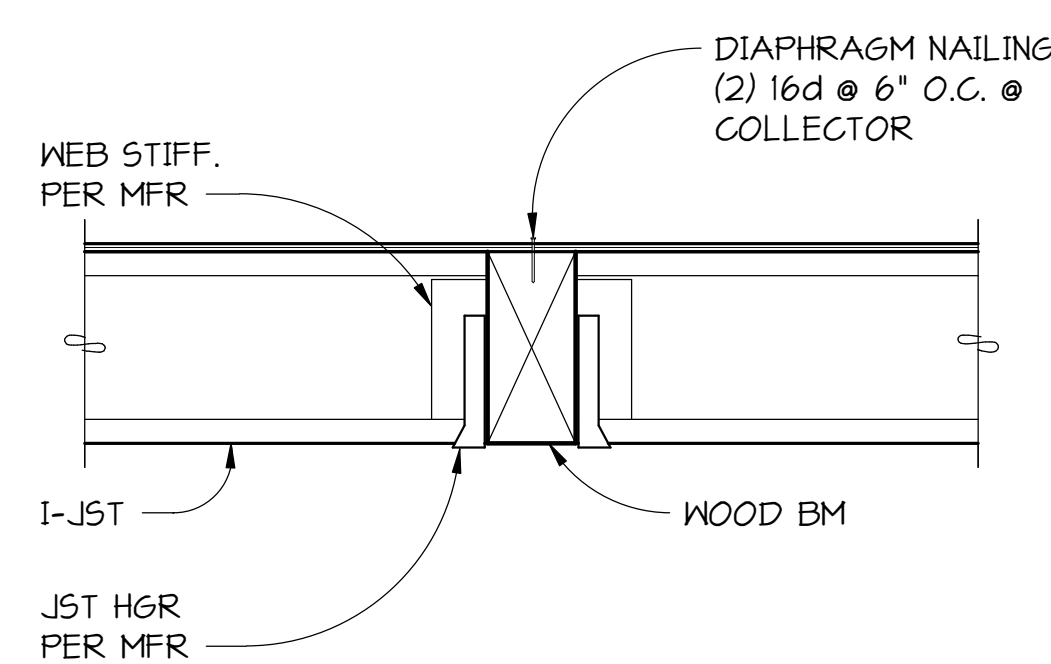
**4 DETAIL**  
 S106 1" = 1'-0"



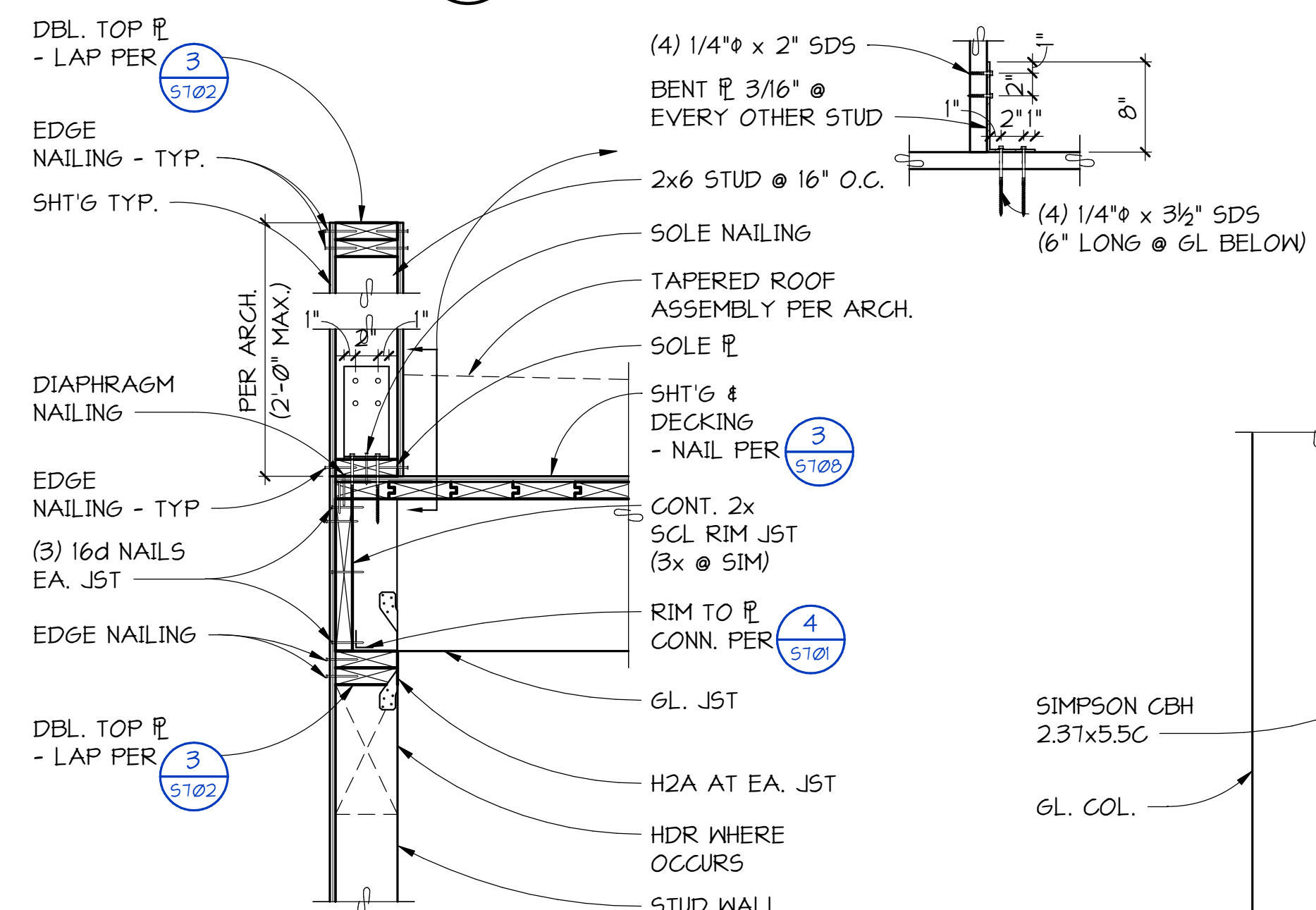
**5 SECTION**  
 S106 NO SCALE



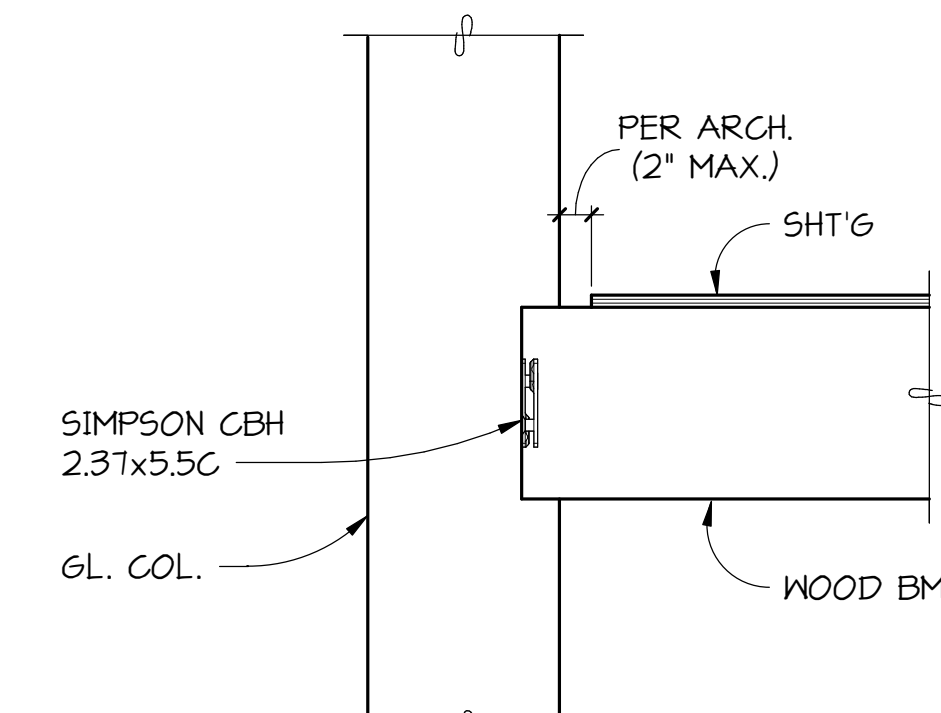
**6 SECTION**  
 S106 NO SCALE



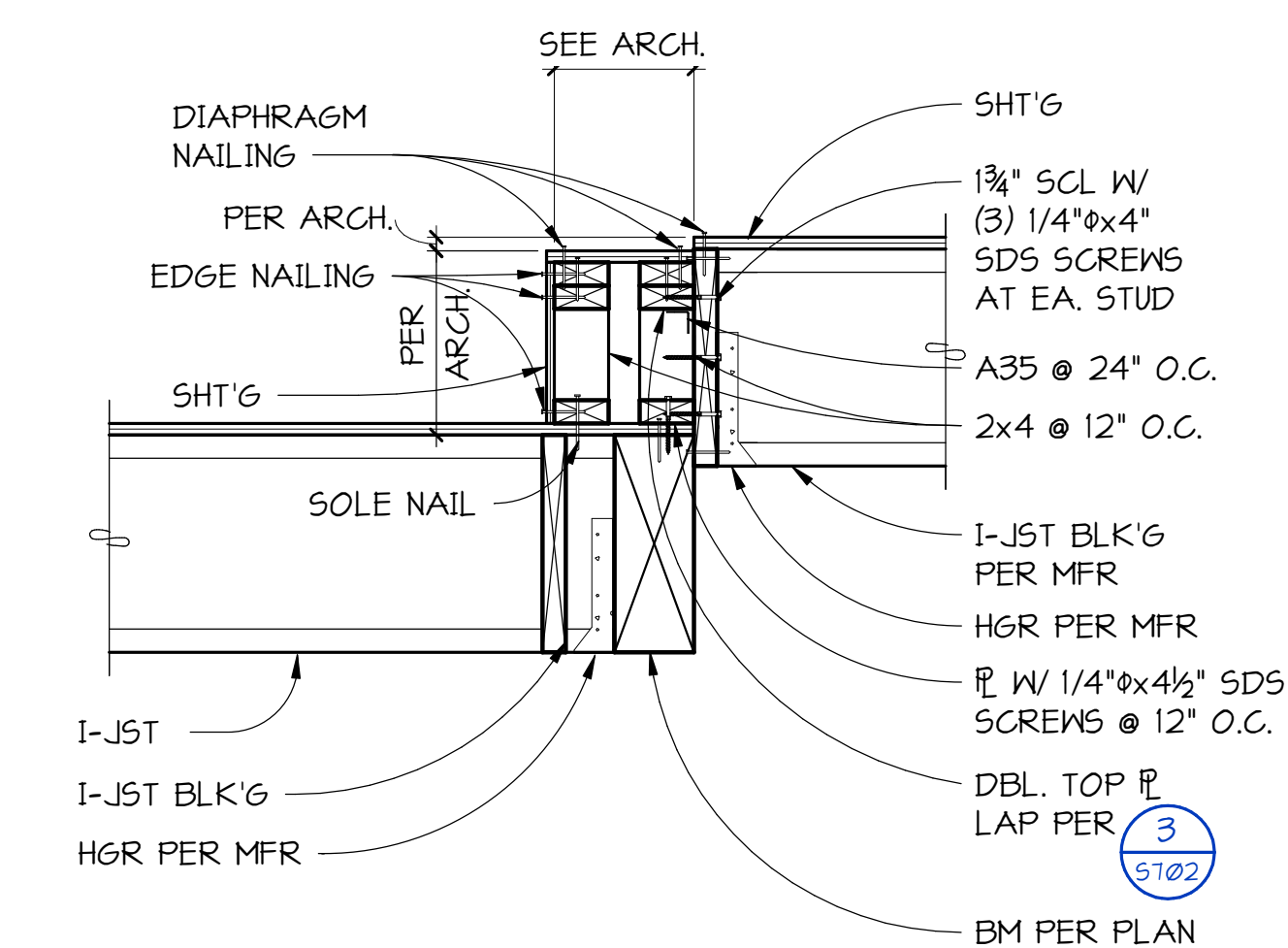
**7 SECTION**  
 S106 NO SCALE



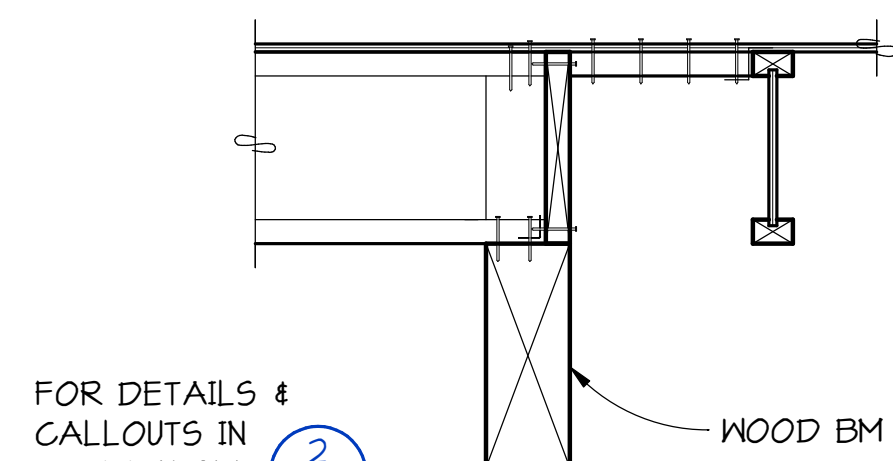
**8 SECTION**  
 S106 1" = 1'-0"



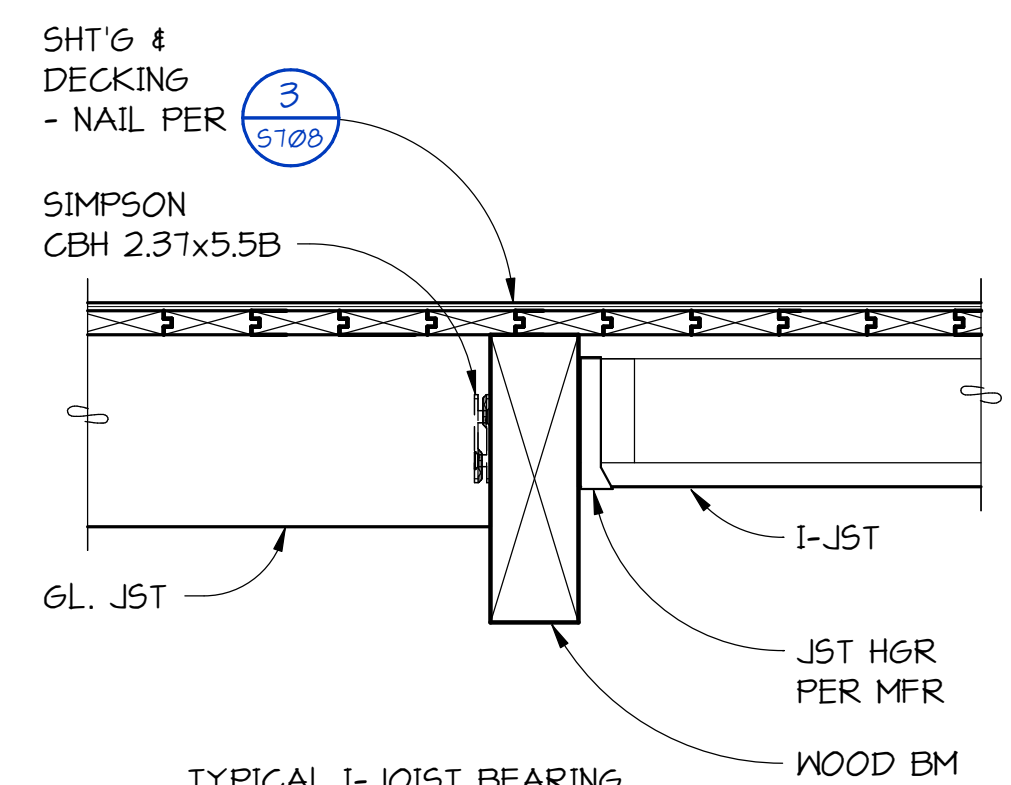
**9 SECTION**  
 S106 1" = 1'-0"



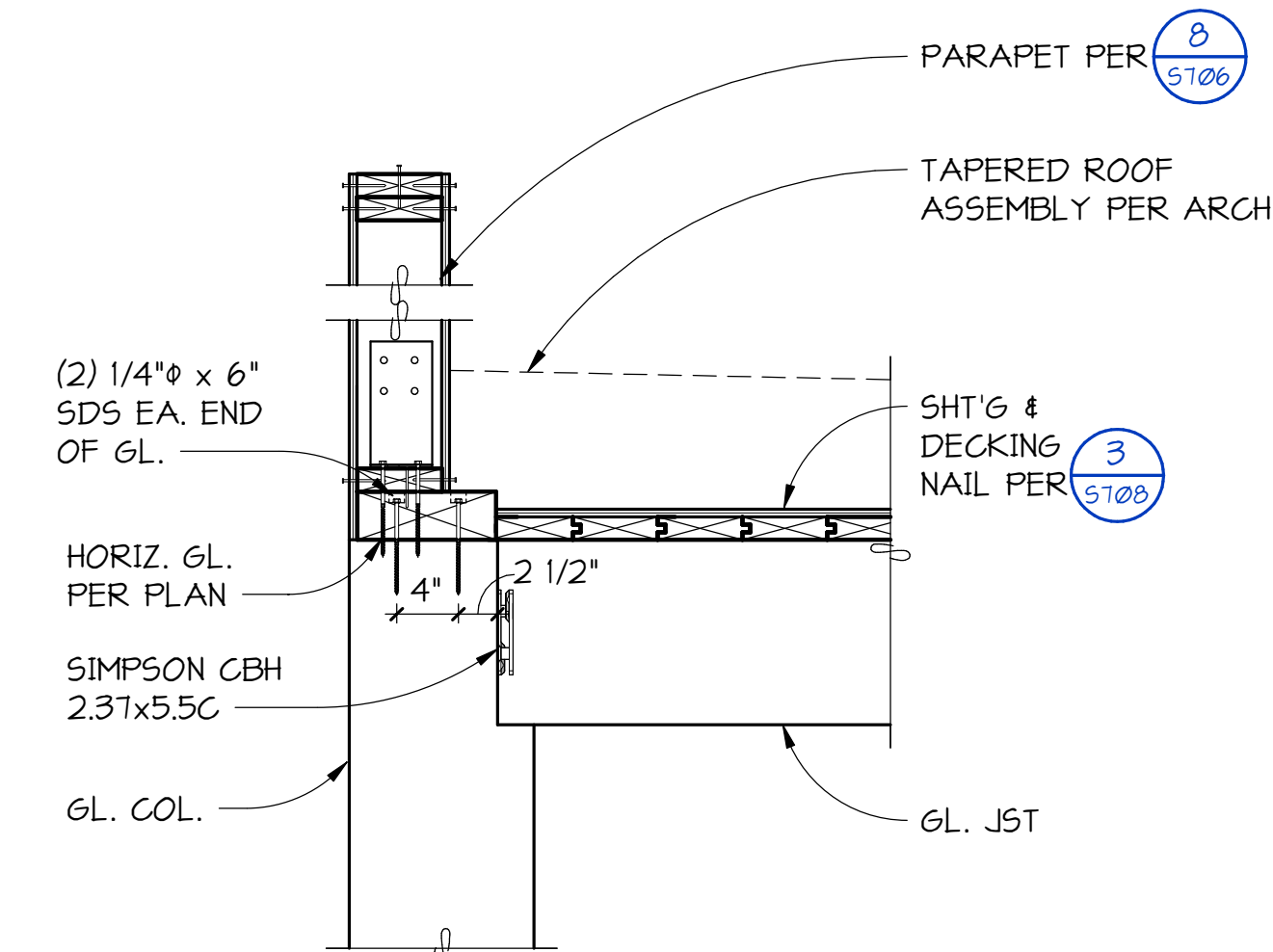
**10 SECTION**  
 S106 1" = 1'-0"



**11 SECTION**  
 S106 1" = 1'-0"



**12 SECTION**  
 S106 1" = 1'-0"



**13 SECTION**  
 S106 1" = 1'-0"

**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

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February 24, 2023

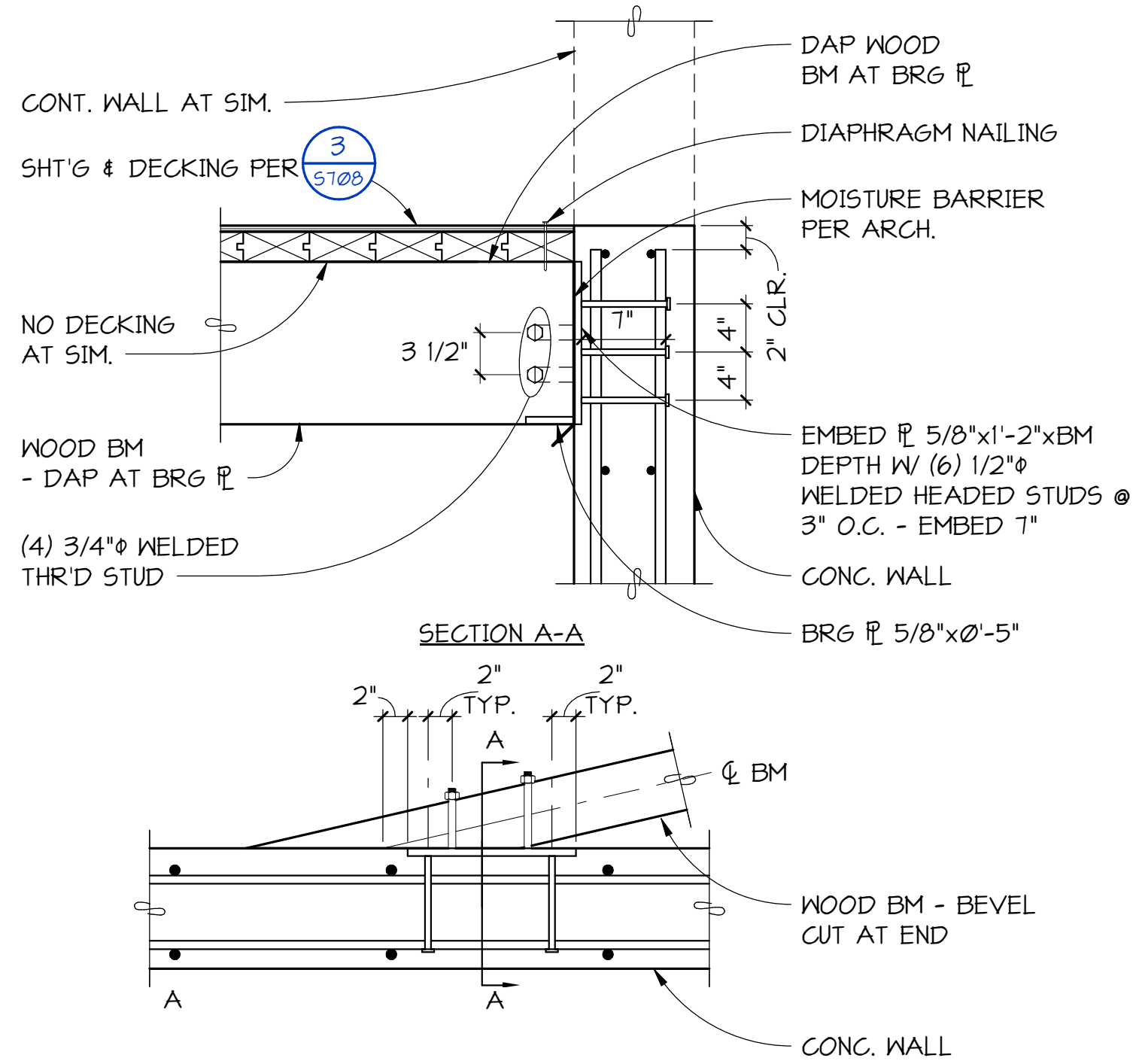
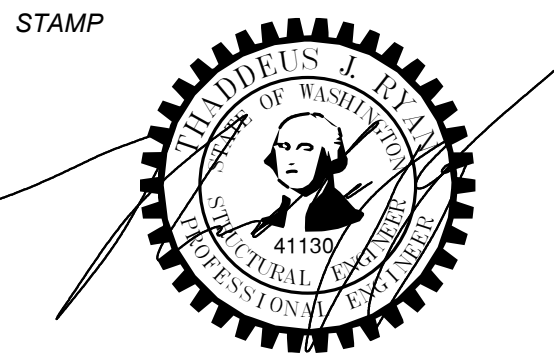
REVISIONS	No.	Description	Date

Drawn: DEH  
 Checked: TJR  
 MJH Proj No.: A20.0085.00

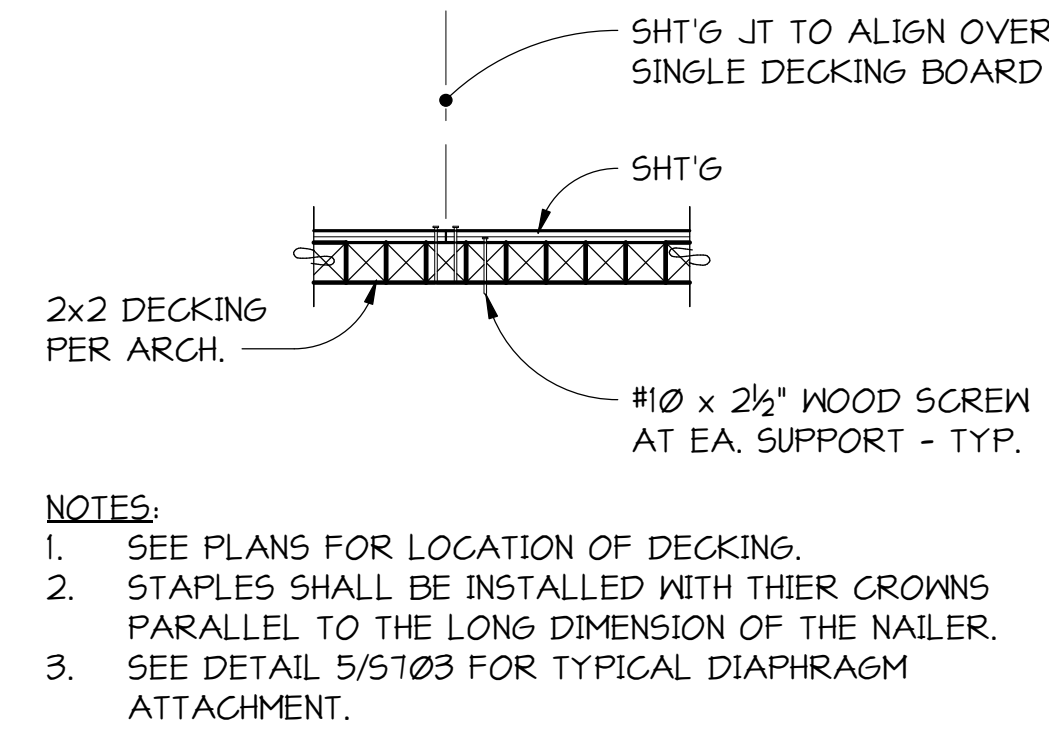
Issue Date: February 24, 2023

SHEET

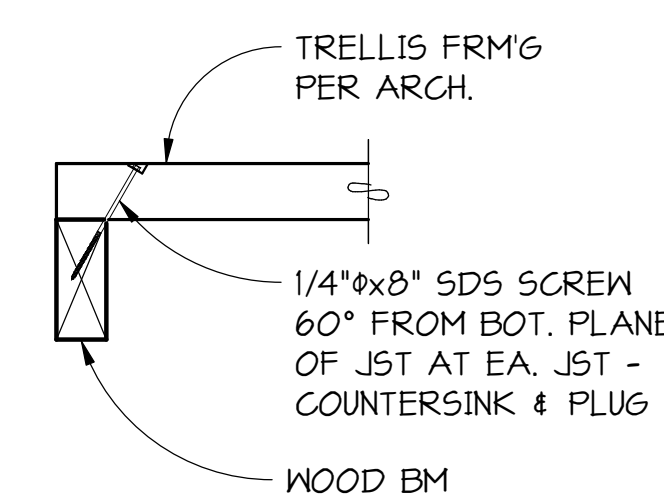
**WOOD FRAMING DETAILS S706**



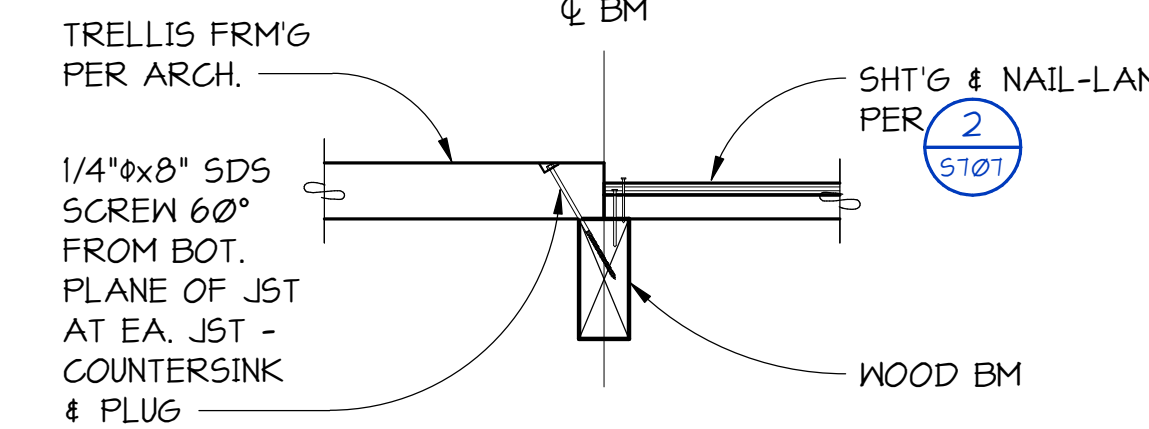
**1** DETAIL  
 S707 1" = 1'-0"



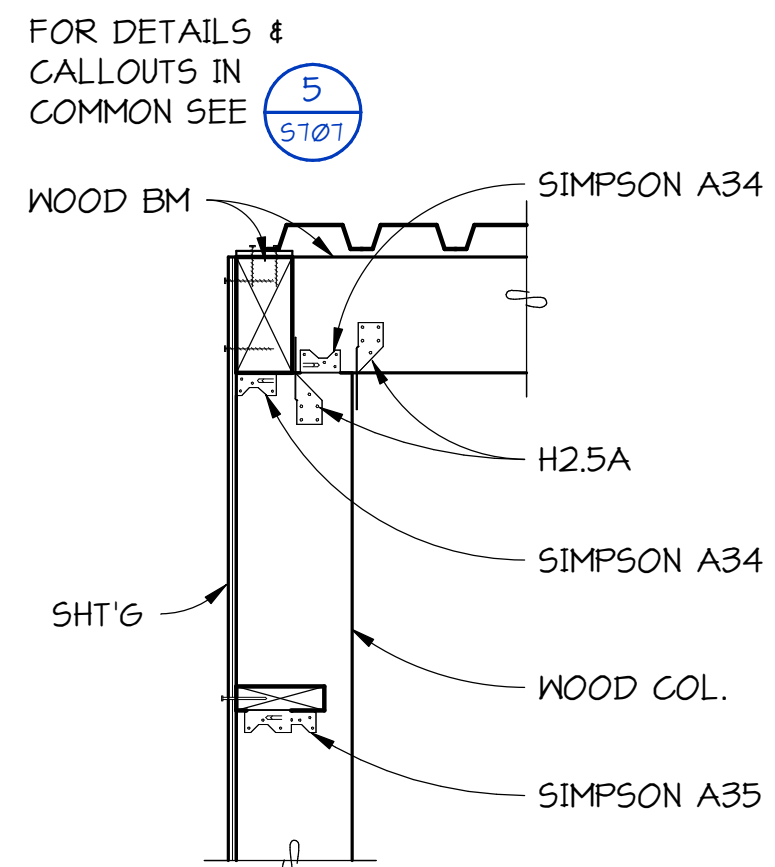
**2** DETAIL  
 S707 1" = 1'-0"



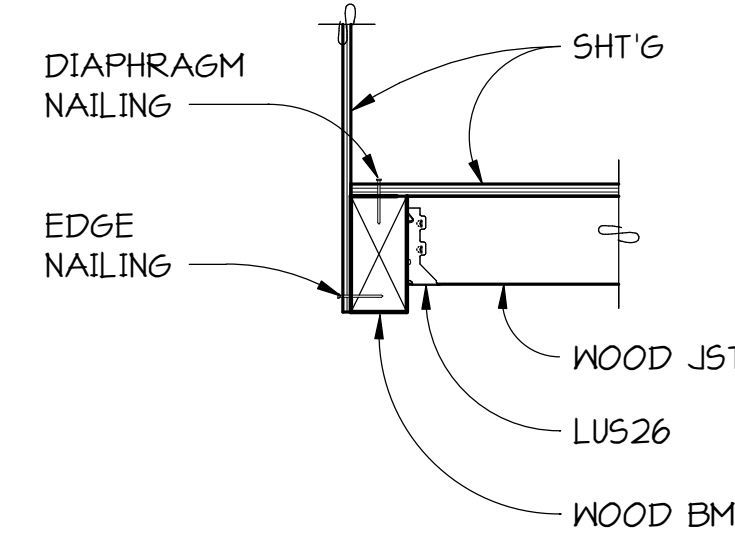
**3** SECTION  
 S707 1" = 1'-0"



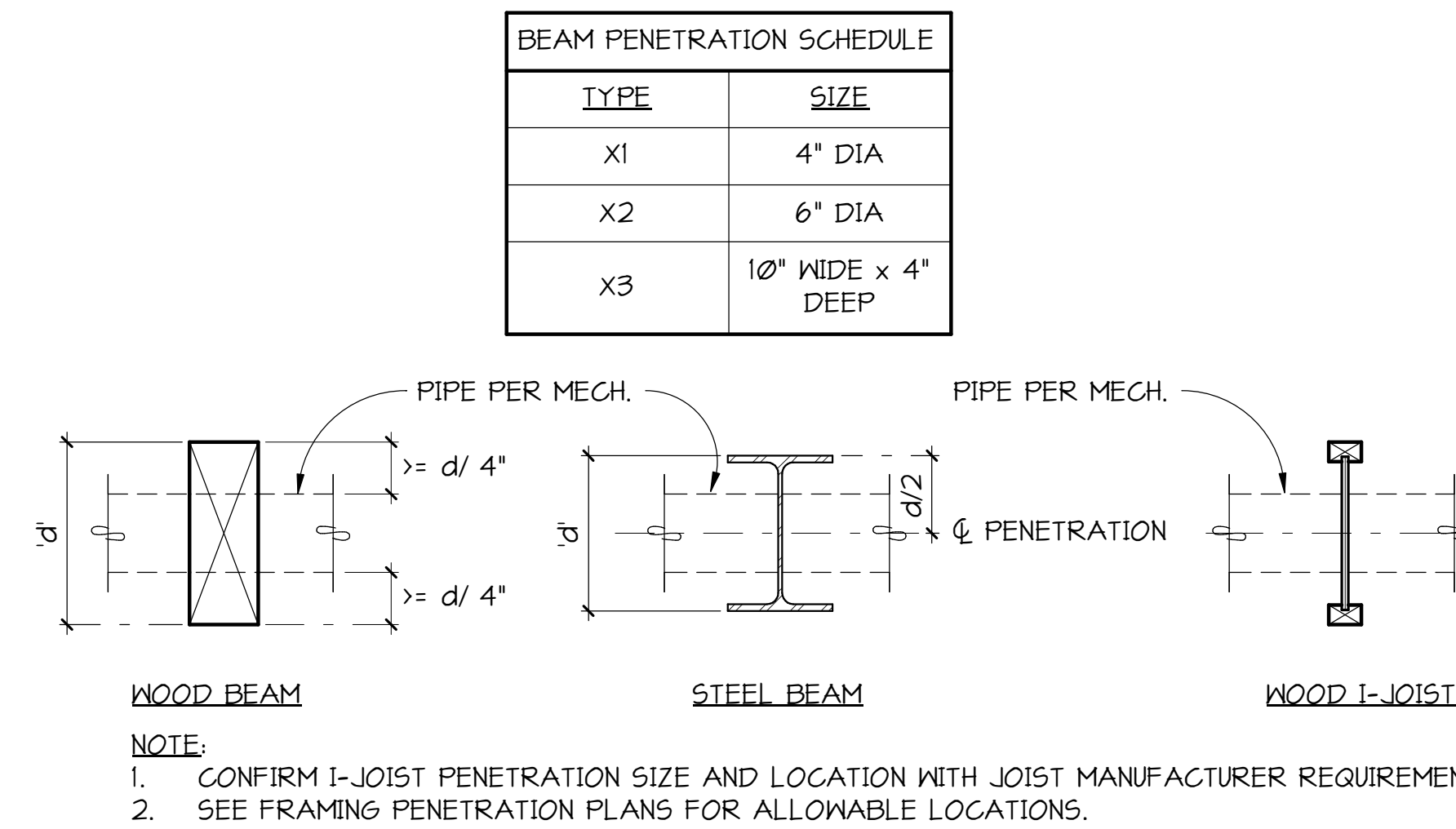
**4** SECTION  
 S707 1" = 1'-0"



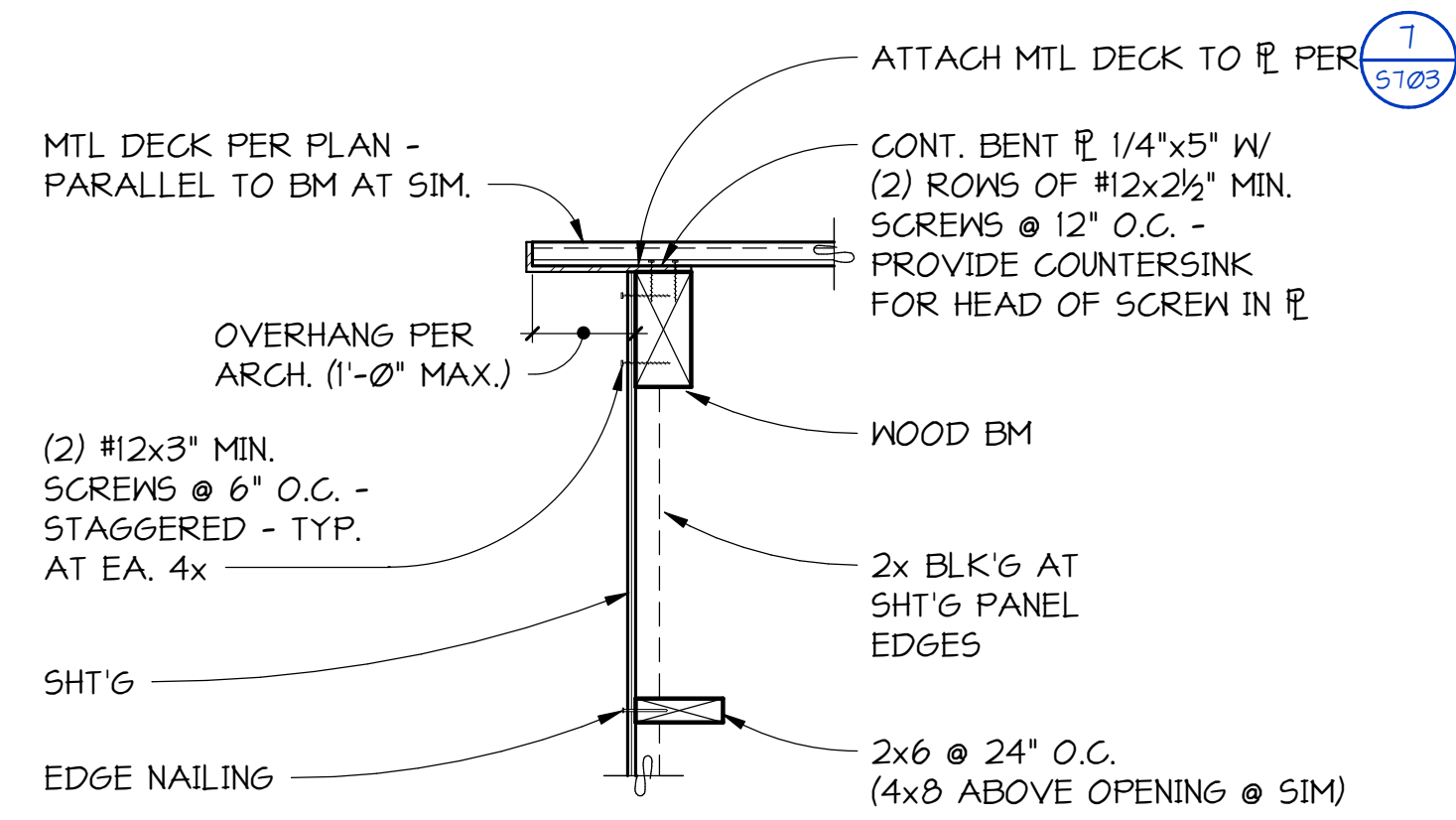
**5** SECTION  
 S707 NO SCALE



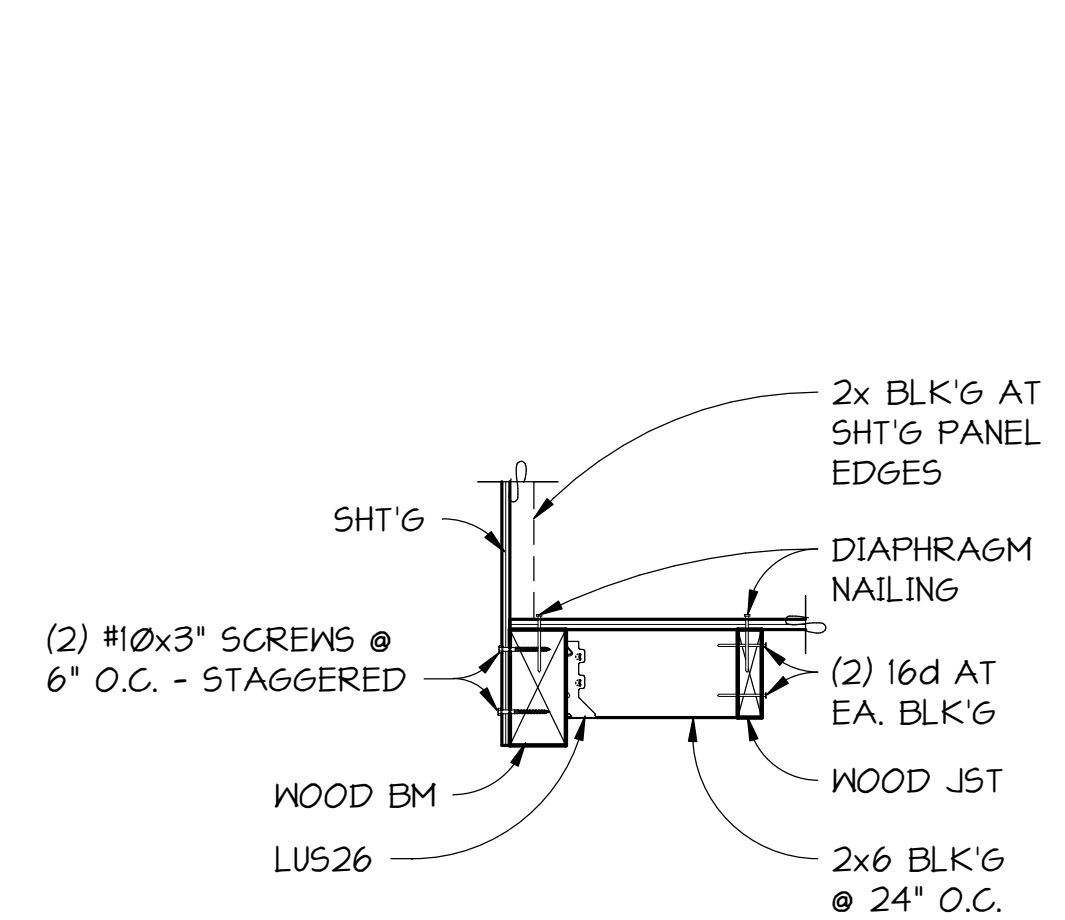
**6** SECTION  
 S707 NO SCALE



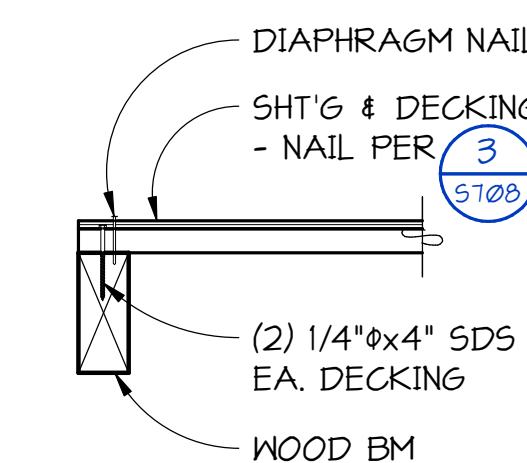
**7** SECTION  
 S707 1" = 1'-0"



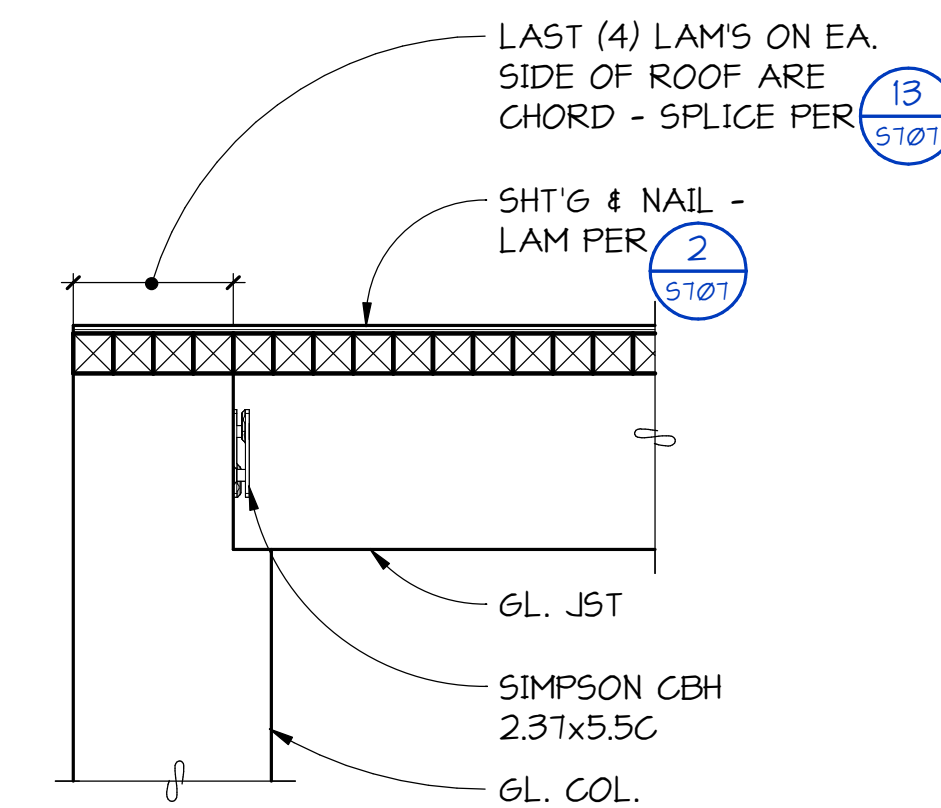
**8** SECTION  
 S707 NO SCALE



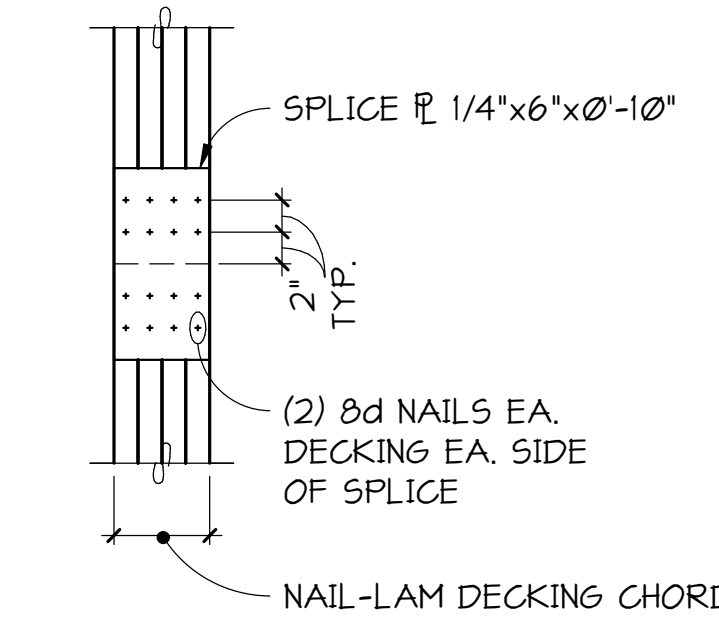
**9** SECTION  
 S707 1" = 1'-0"



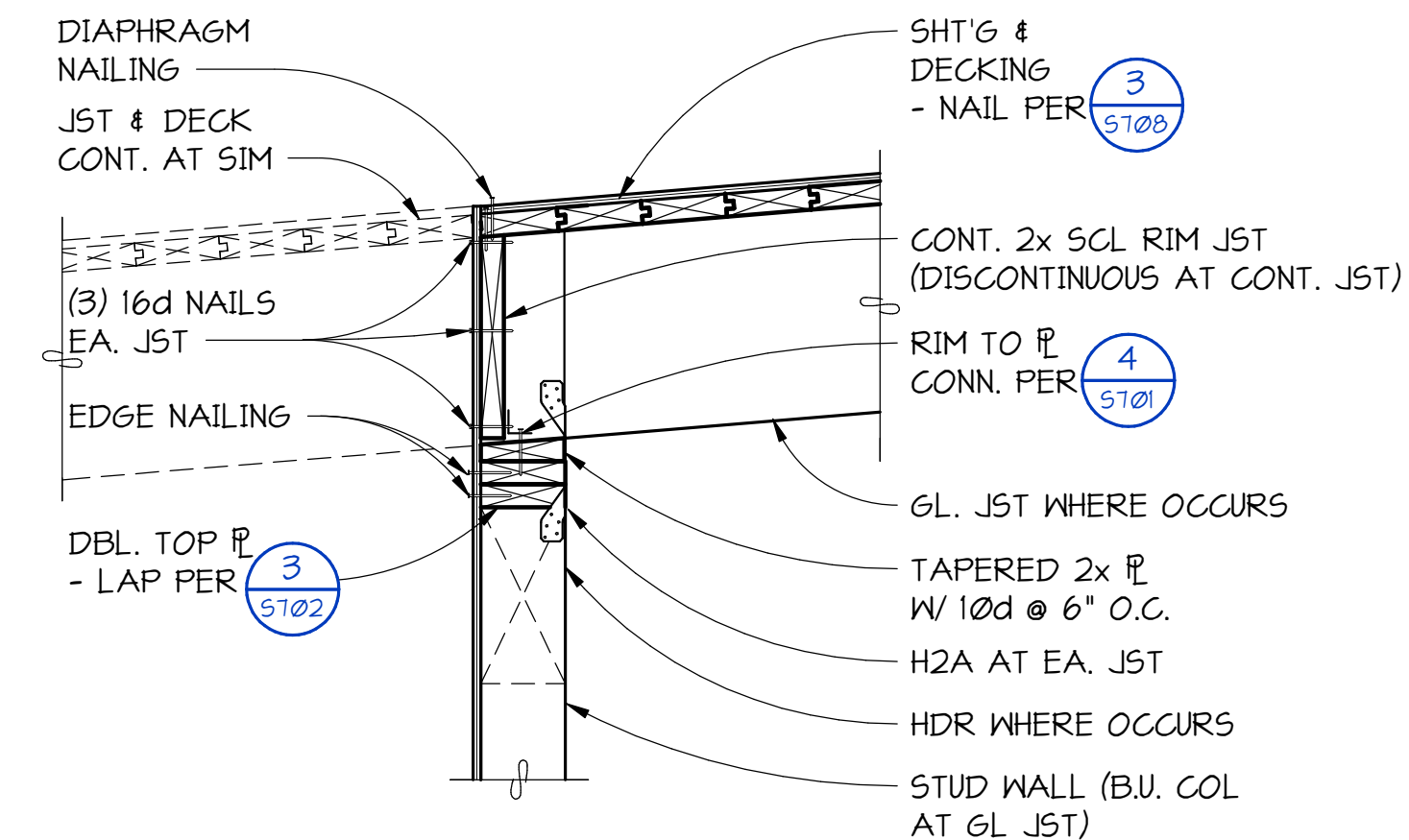
**10** SECTION  
 S707 1" = 1'-0"



**11** SECTION  
 S707 1" = 1'-0"



**12** SECTION  
 S707 1" = 1'-0"



**13** SECTION  
 S707 1" = 1'-0"

**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

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February 24, 2023

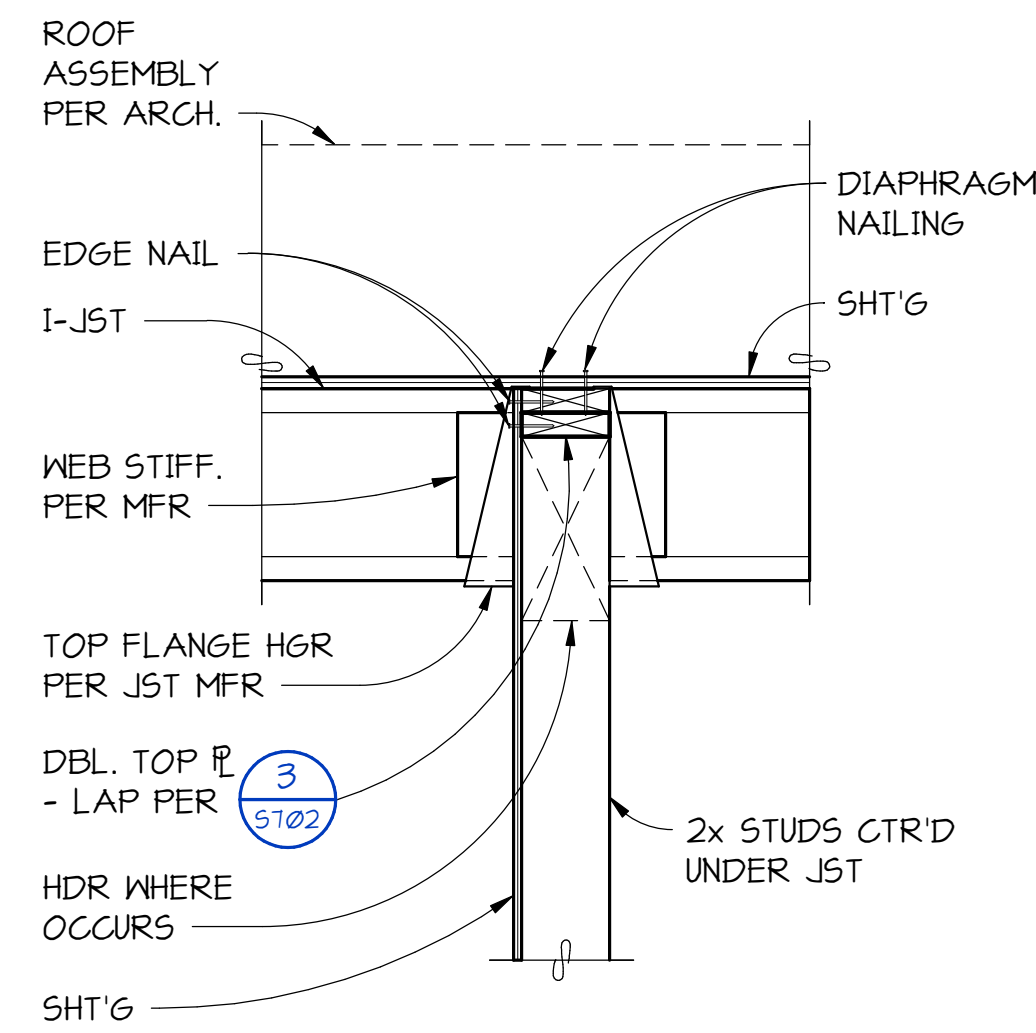
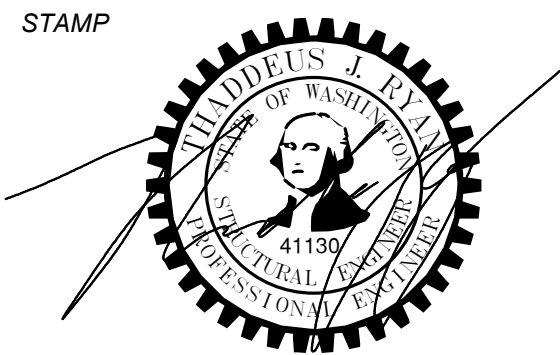
REVISIONS	No.	Description	Date

Drawn: DEH  
 Checked: TJR  
 MJH Proj No.: A20.0085.00

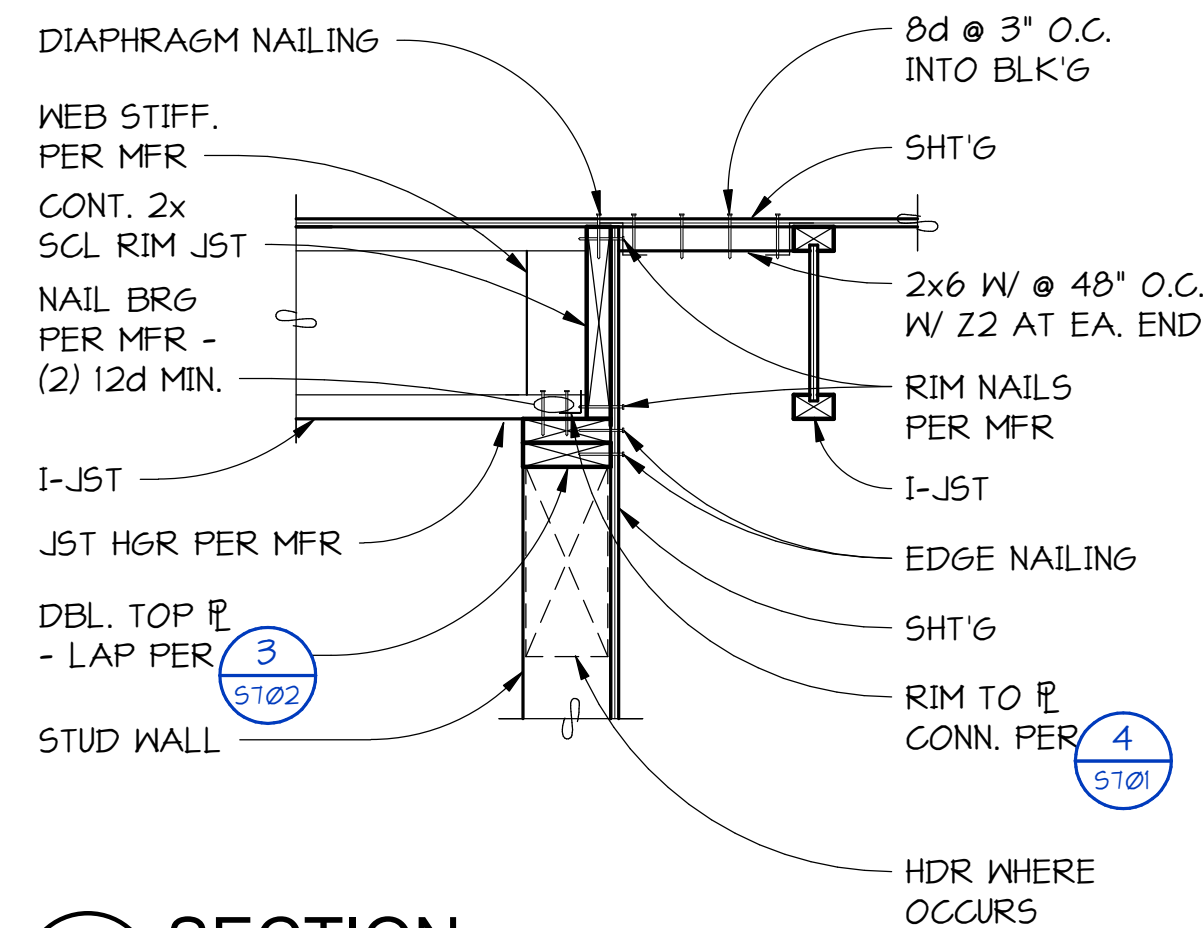
Issue Date: February 24, 2023

SHEET

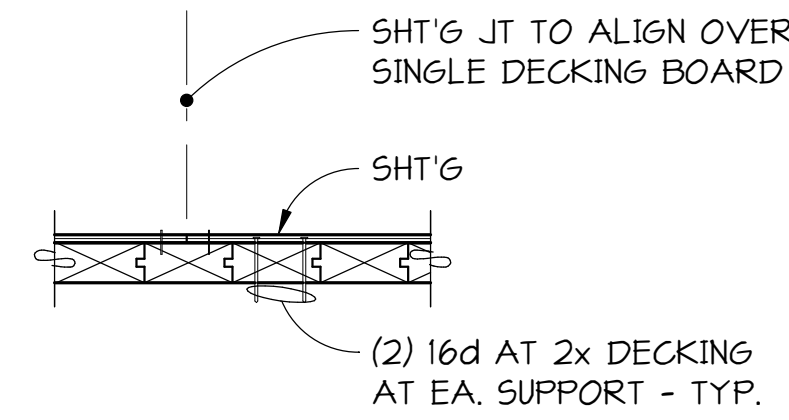
**WOOD FRAMING DETAILS S707**



**1 SECTION**  
 5108 1" = 1'-0"



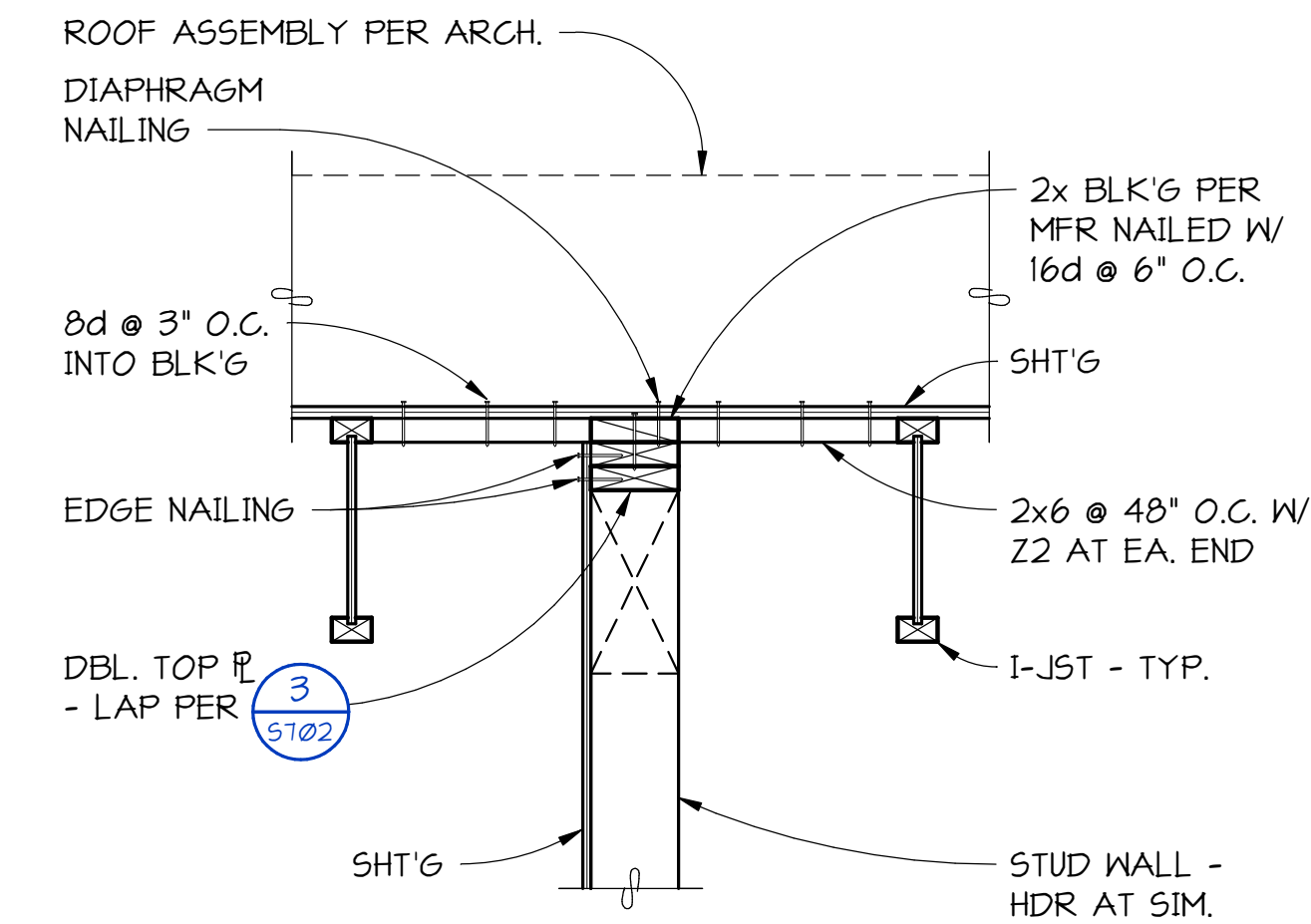
**2 SECTION**  
 5108 1" = 1'-0"



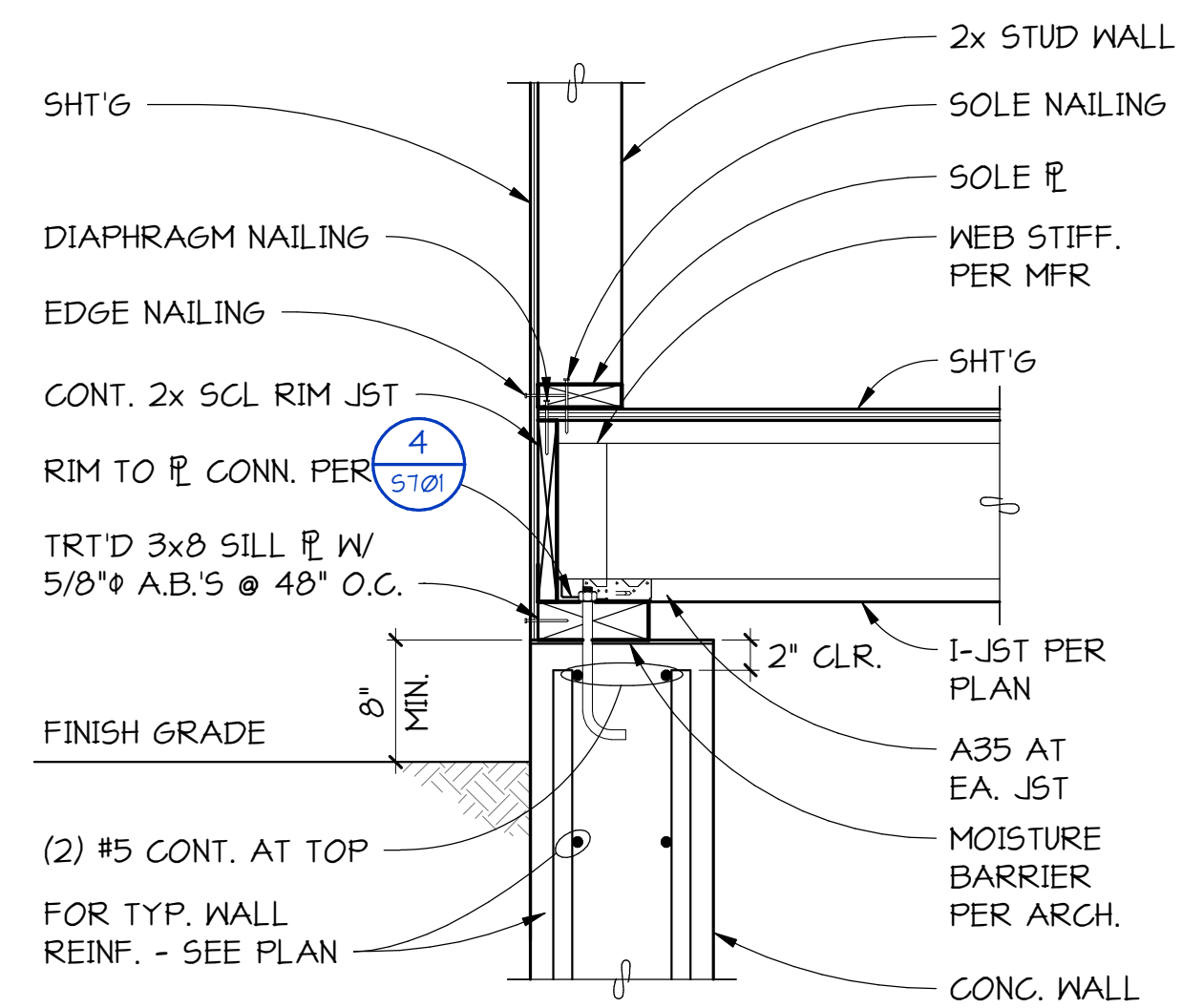
- NOTES:**
1. DECKING SHALL BE INSTALLED WITH TYPE IV CONTROLLED RANDOM LAYOUT AT THE MAIN ROOF AND TWO-SPAN CONTINUOUS LAYOUT AT THE GARAGE ROOF END MATCHED AND WITH TONGUES UP THE SLOPE.
  2. SEE PLANS FOR LOCATION OF DECKING.
  3. STAPLES SHALL BE INSTALLED WITH THEIR CROWNS PARALLEL TO THE LONG DIMENSION OF THE NAILER.
  4. SEE DETAIL 5/5103 FOR TYPICAL DIAPHRAGM TO DECKING ATTACHMENT.

TYPICAL ROOF DECKING LAYOUT AND FASTENERS

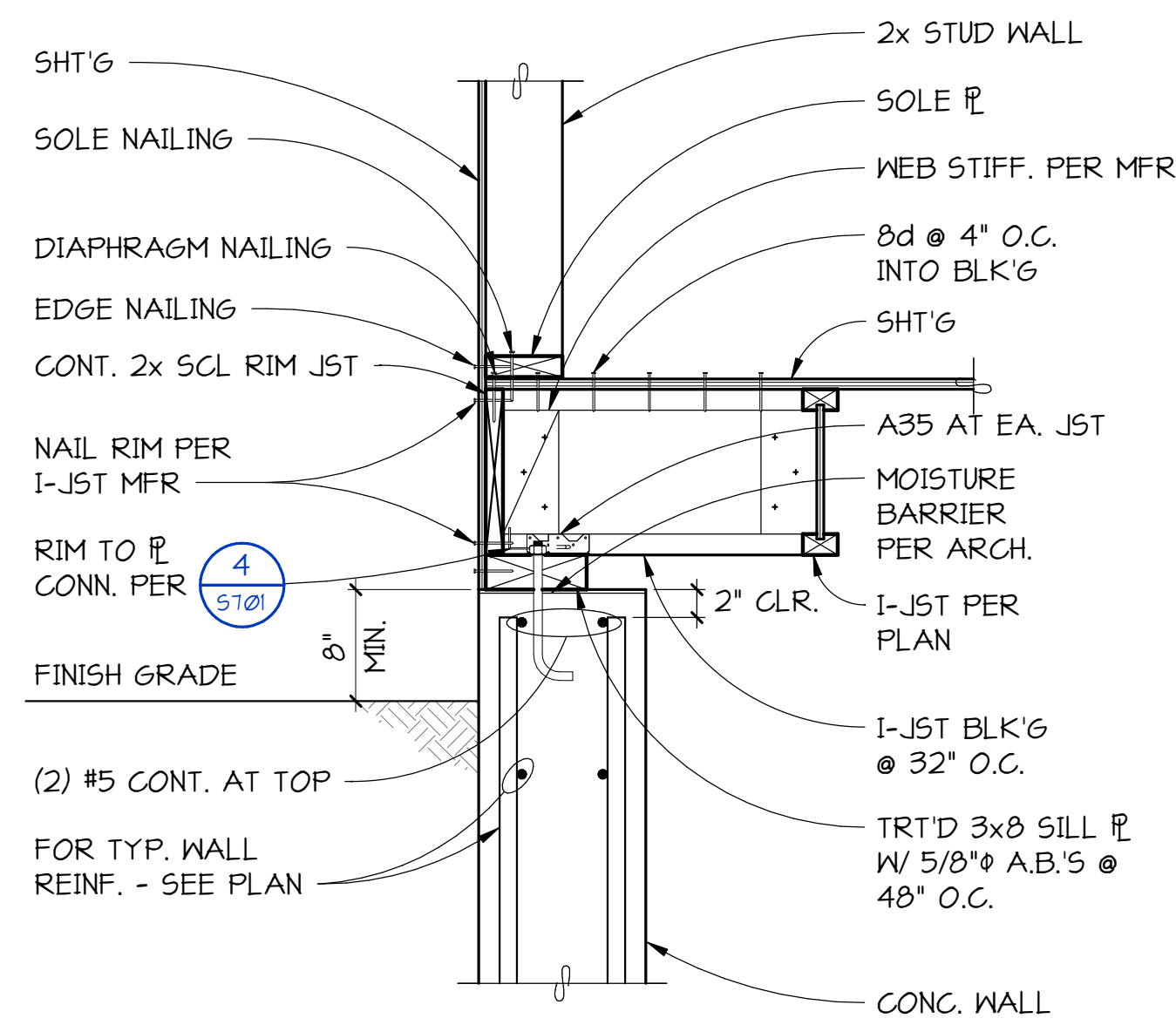
**3 SECTION**  
 5108 1" = 1'-0"



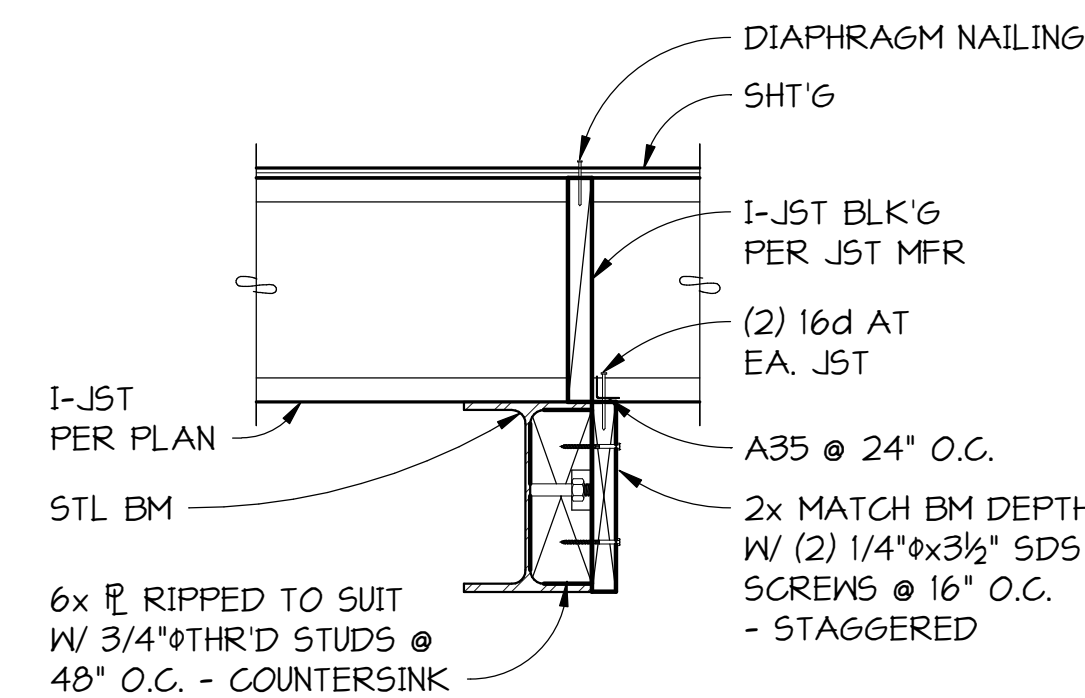
**4 SECTION**  
 5108 1" = 1'-0"



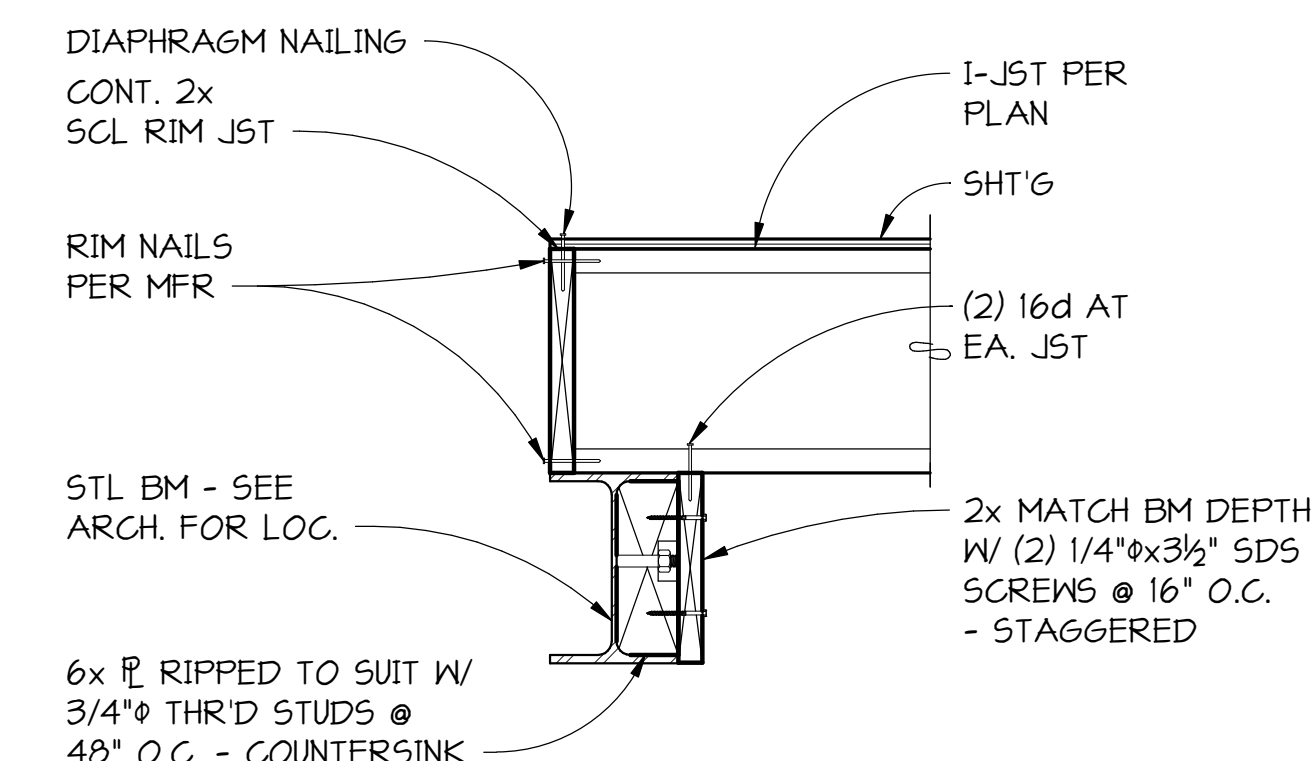
**5 SECTION**  
 5108 1" = 1'-0"



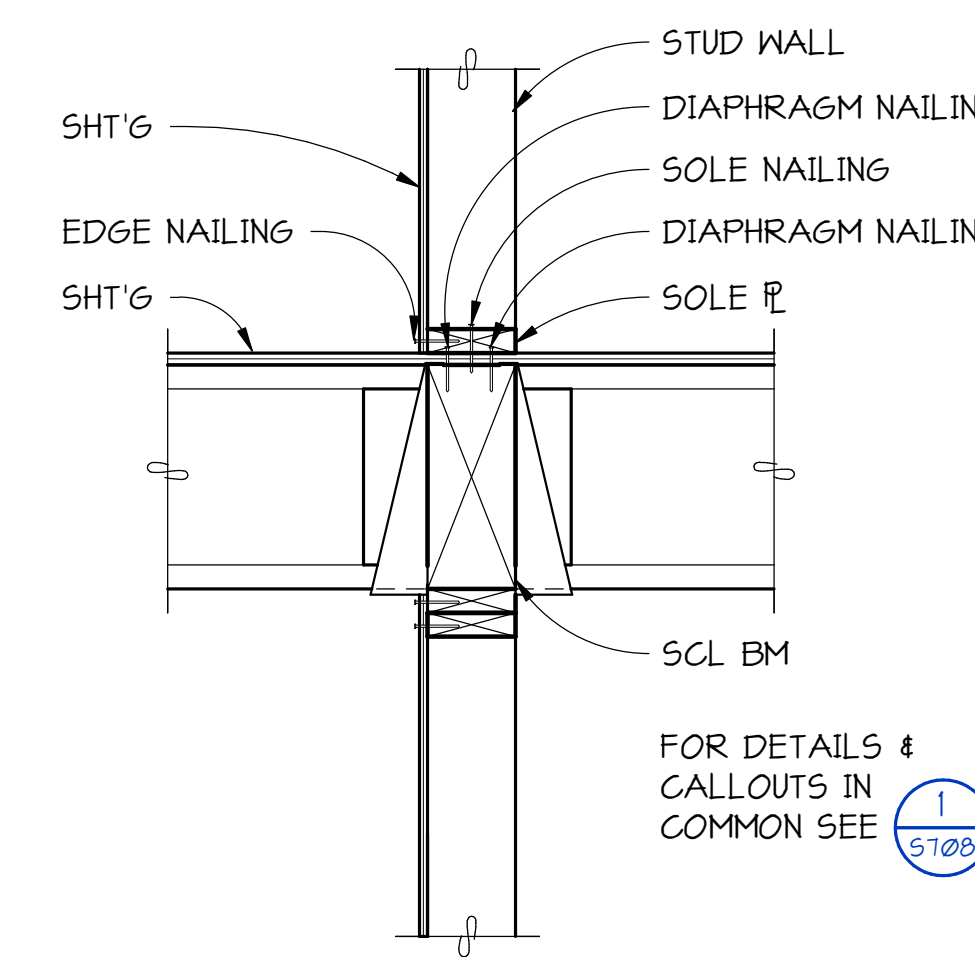
**6 SECTION**  
 5108 1" = 1'-0"



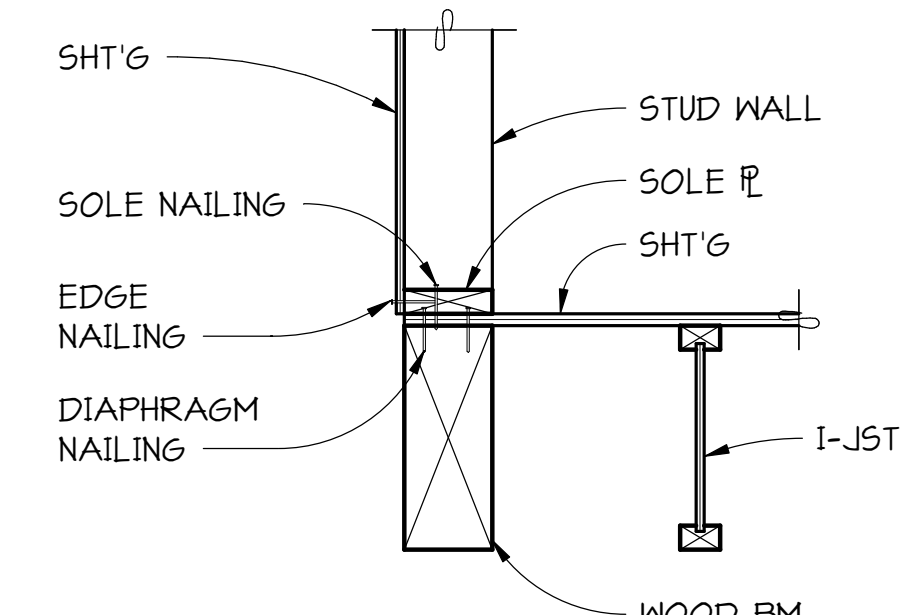
**7 SECTION**  
 5108 NO SCALE



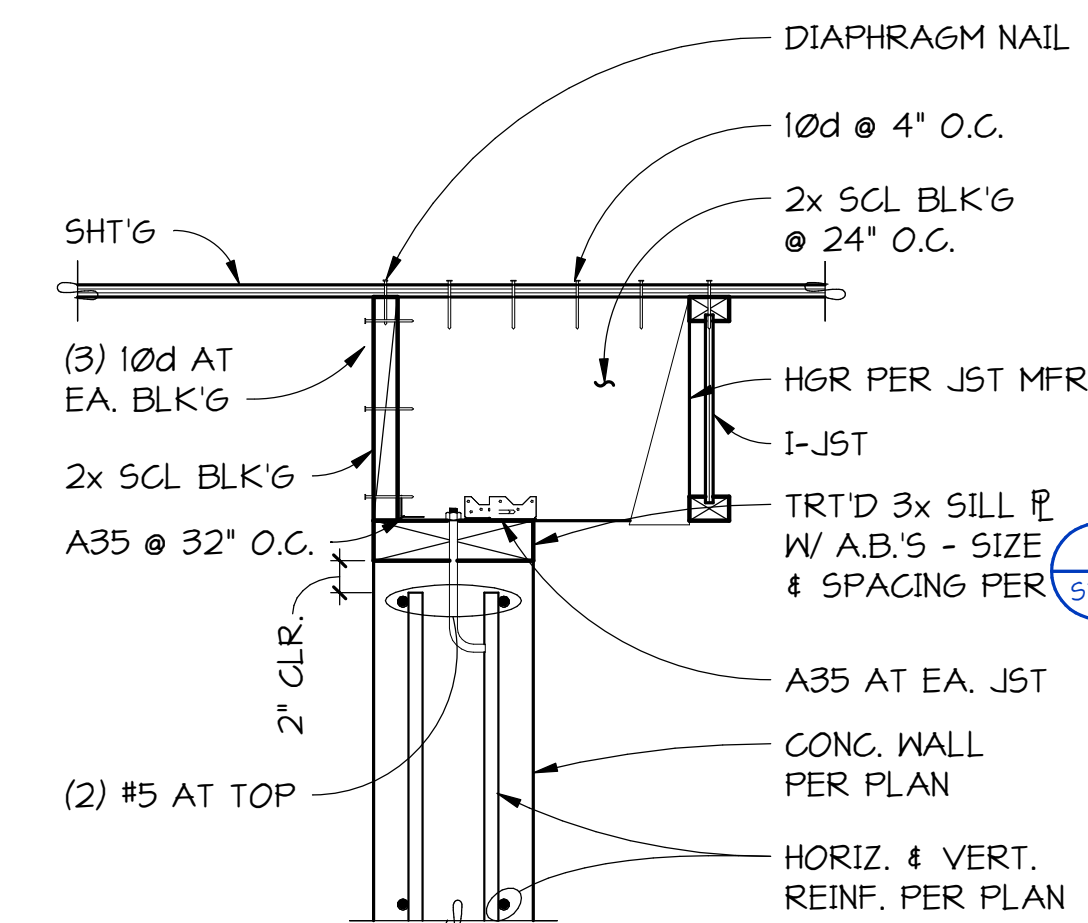
**8 SECTION**  
 5108 NO SCALE



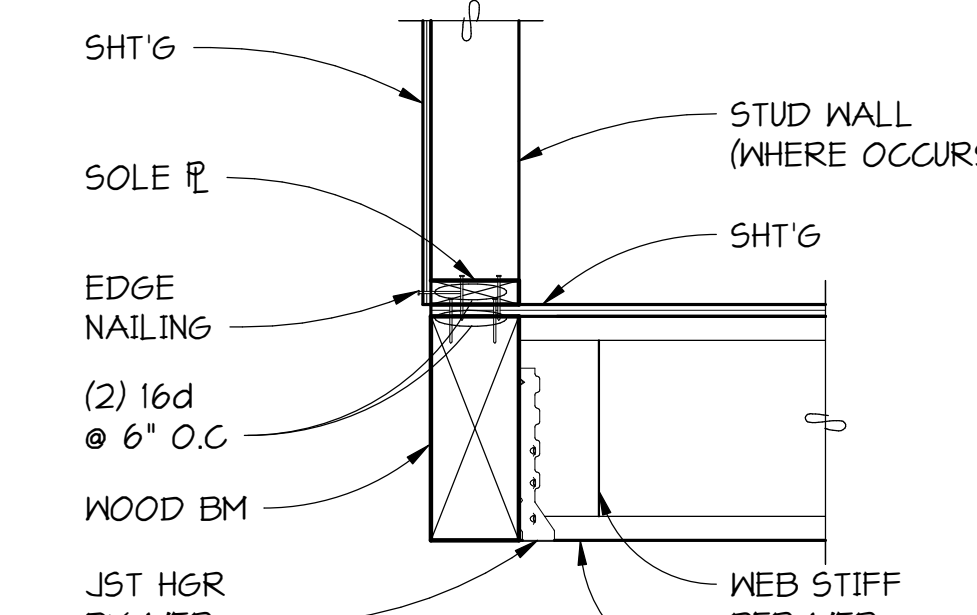
**9 SECTION**  
 5108 NO SCALE



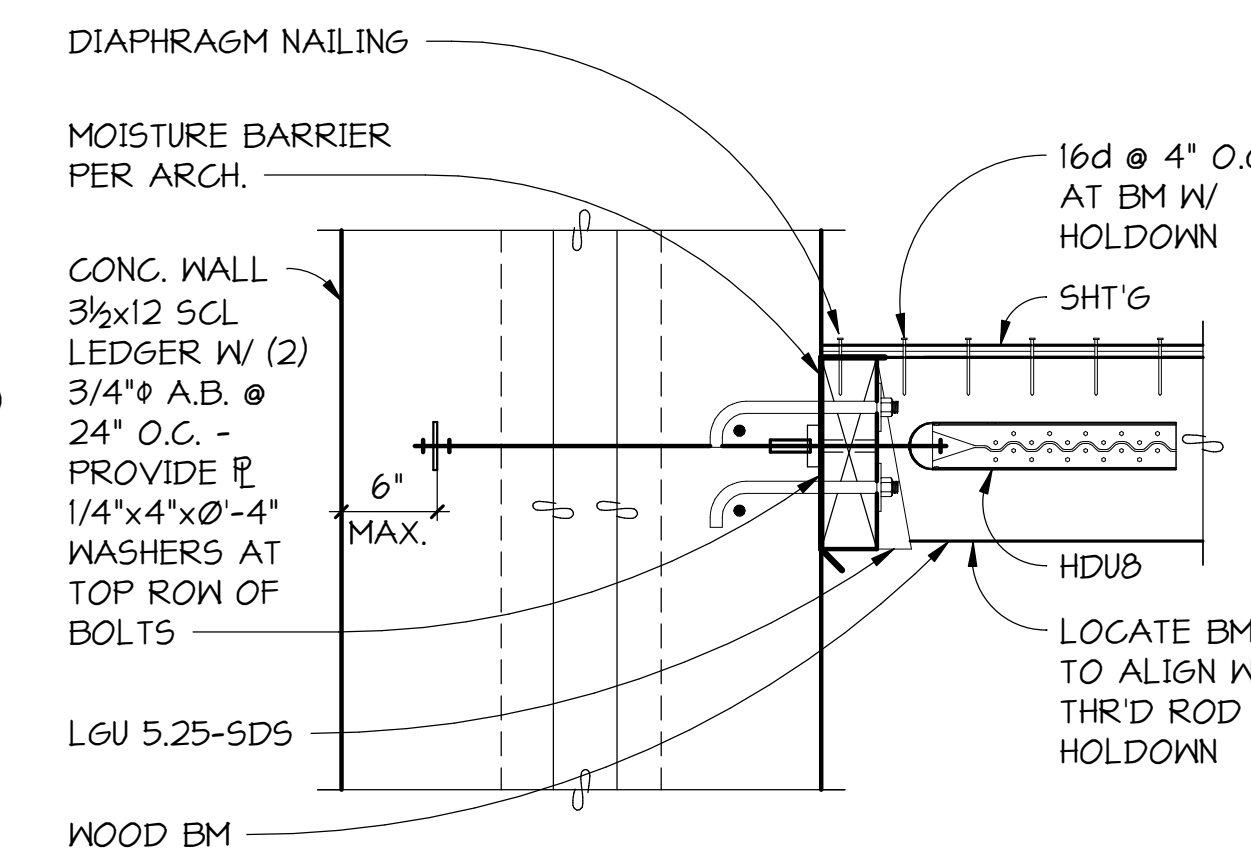
**10 SECTION**  
 5108 NO SCALE



**11 SECTION**  
 5108 NO SCALE



**12 SECTION**  
 5108 NO SCALE



**13 SECTION**  
 5108 NO SCALE

**MERCER ISLAND HOUSE: CASCADE**

6838 96TH AVE SE  
 MERCER ISLAND, WA 98040

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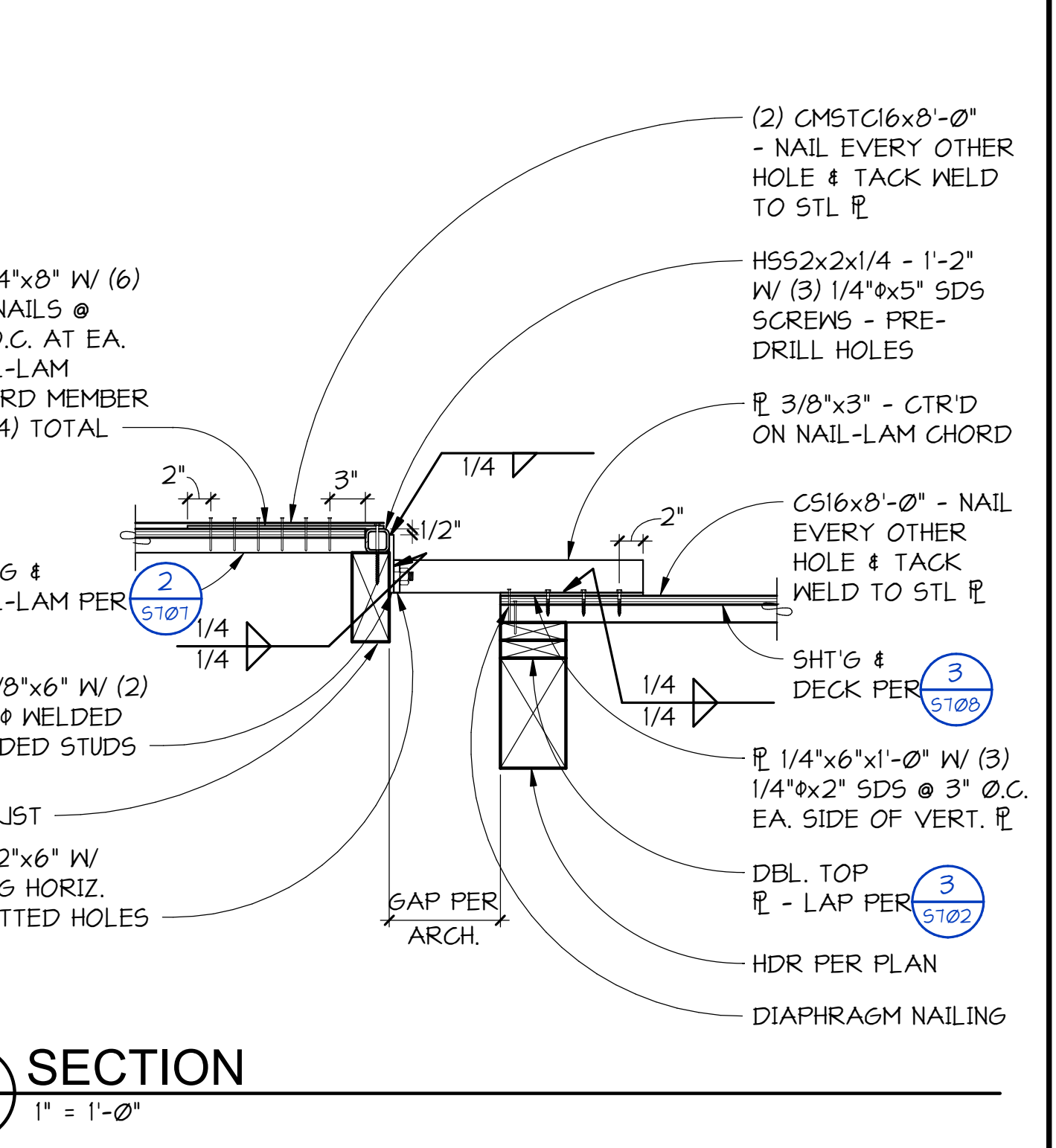
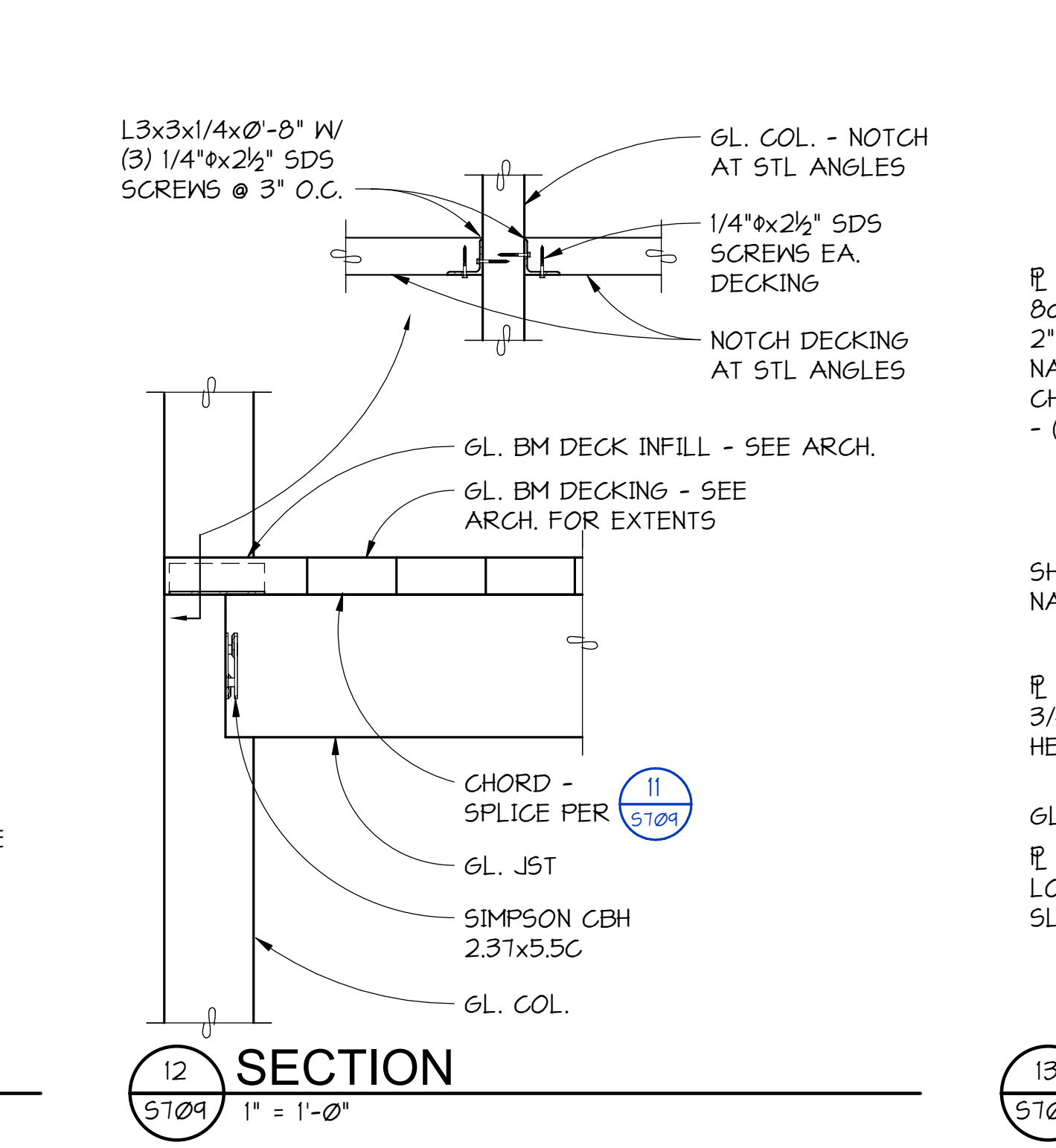
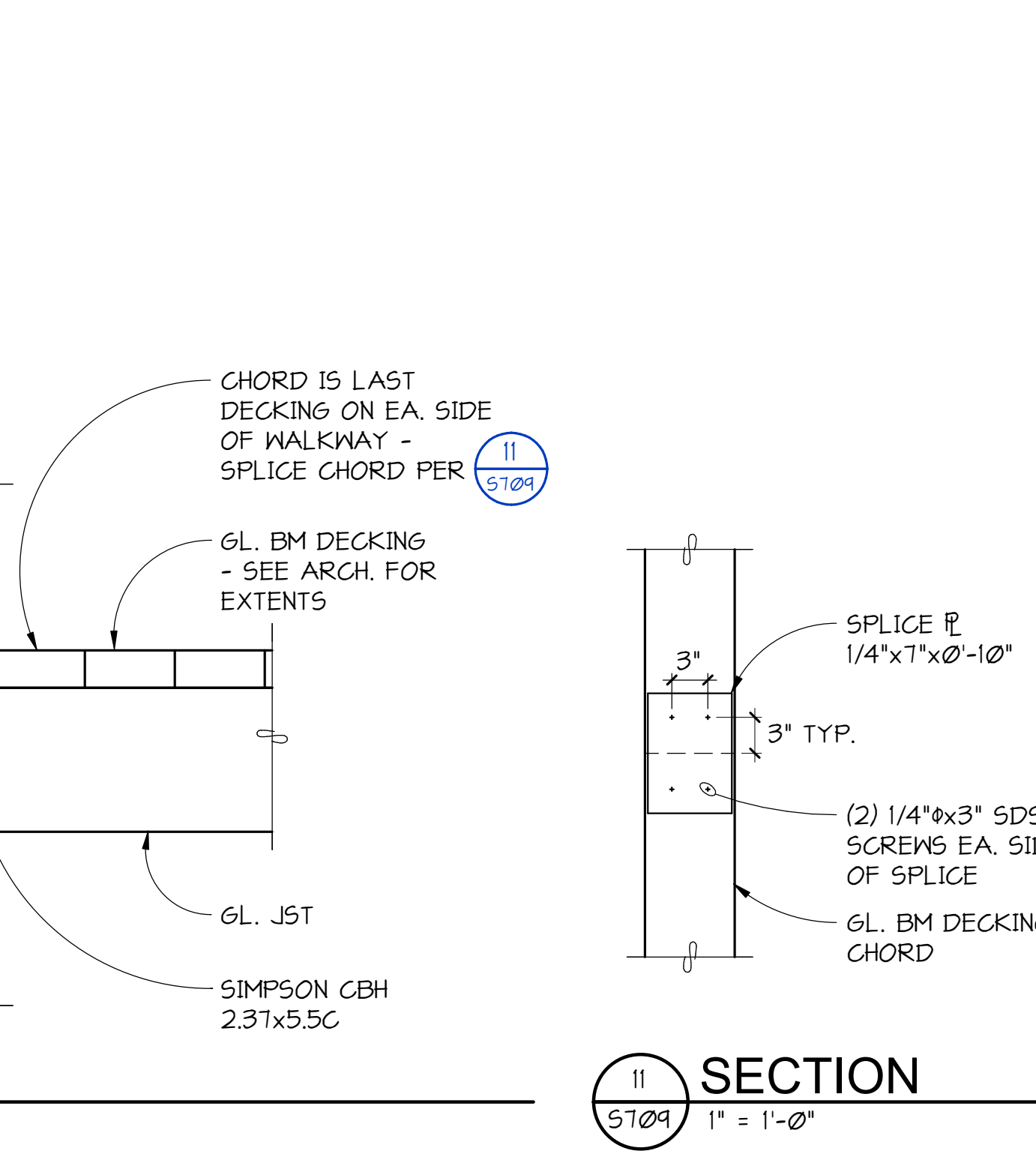
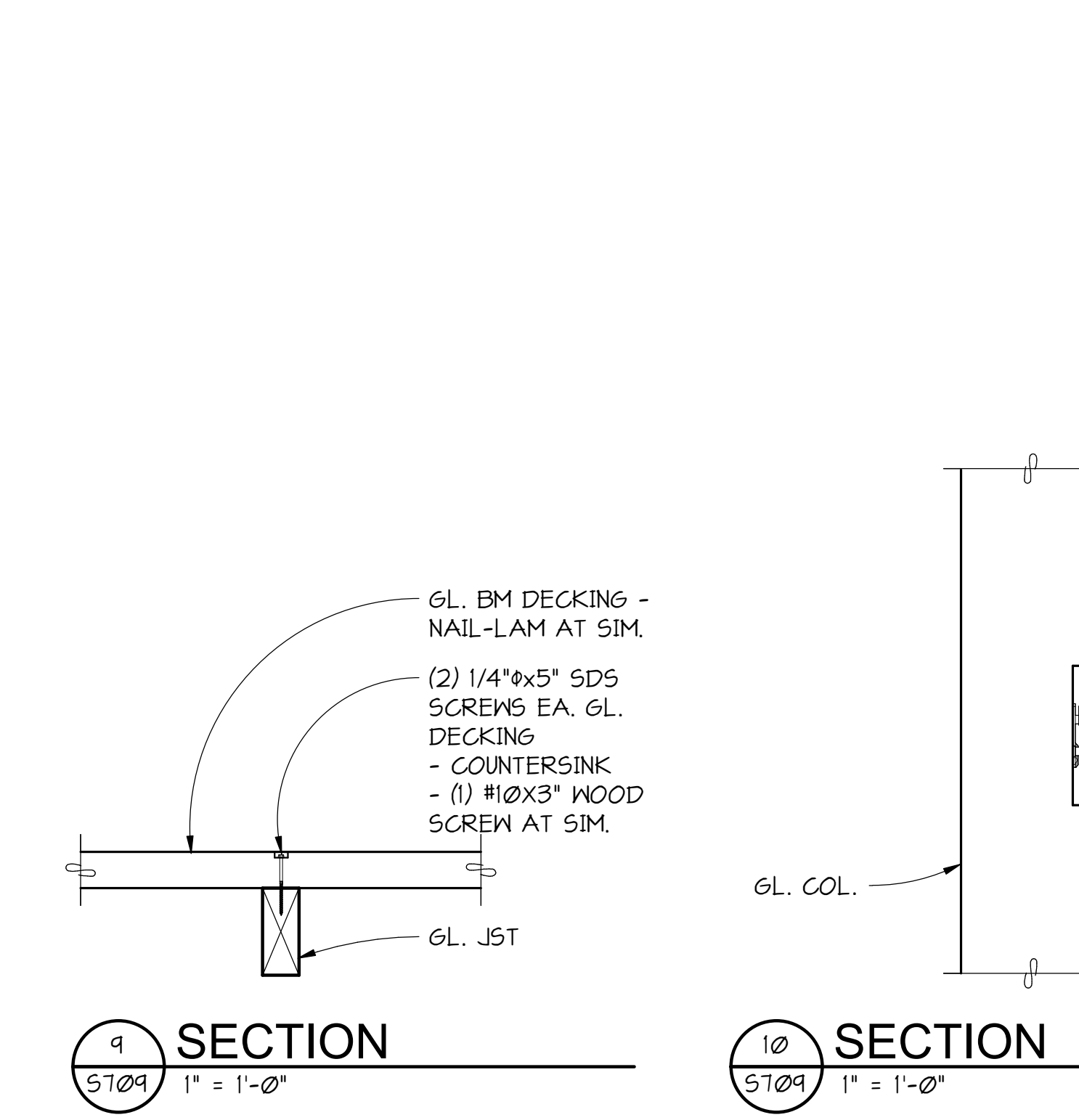
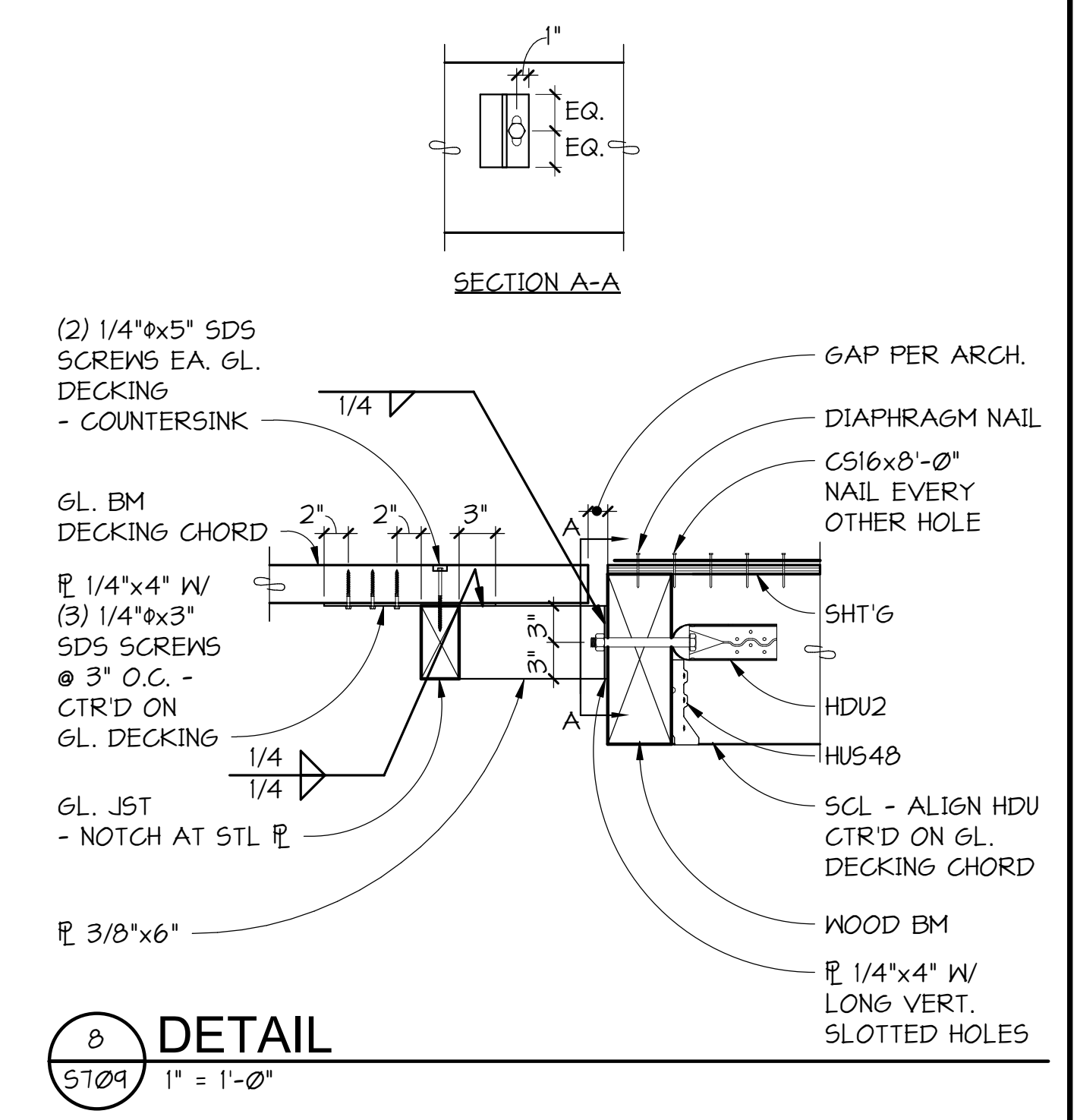
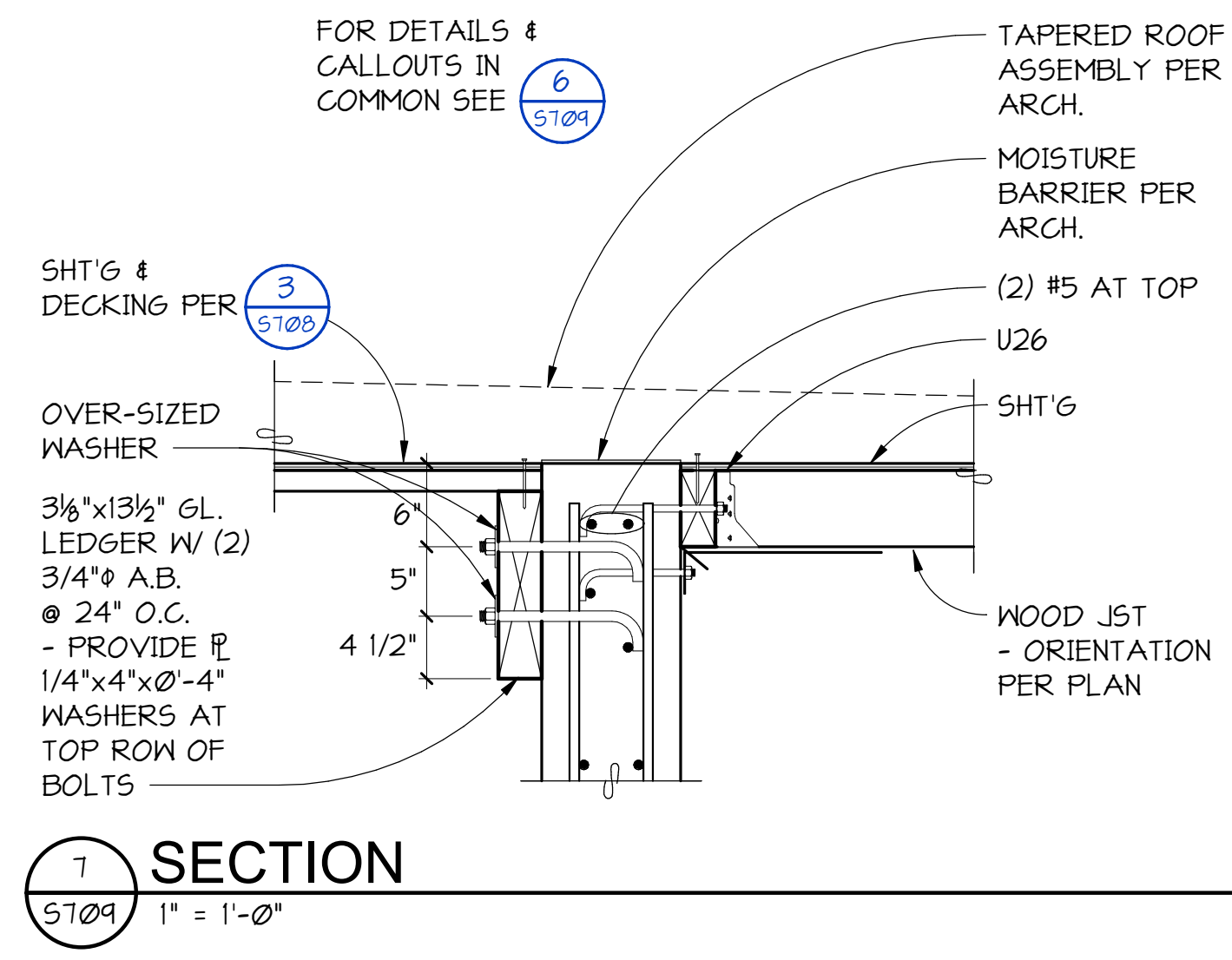
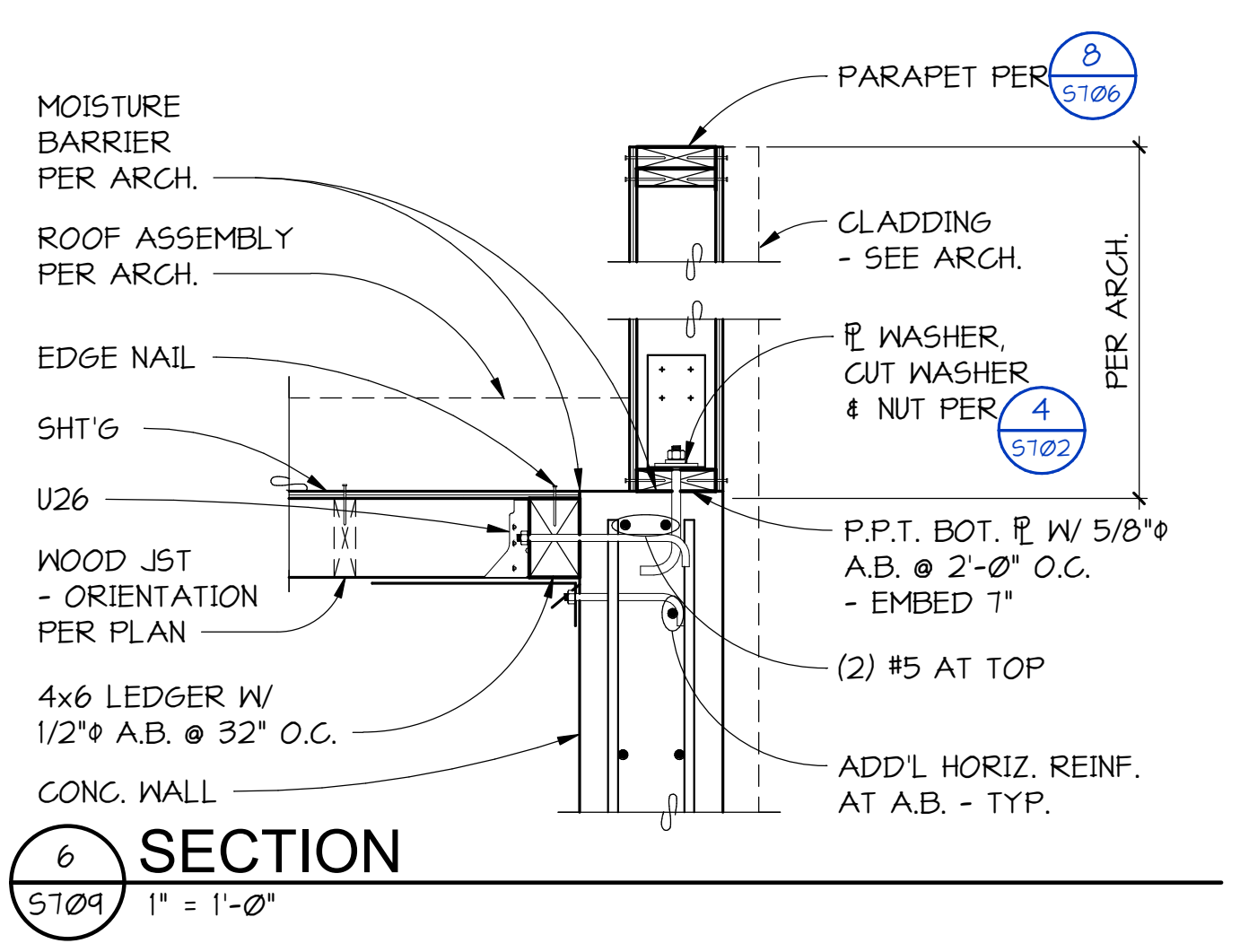
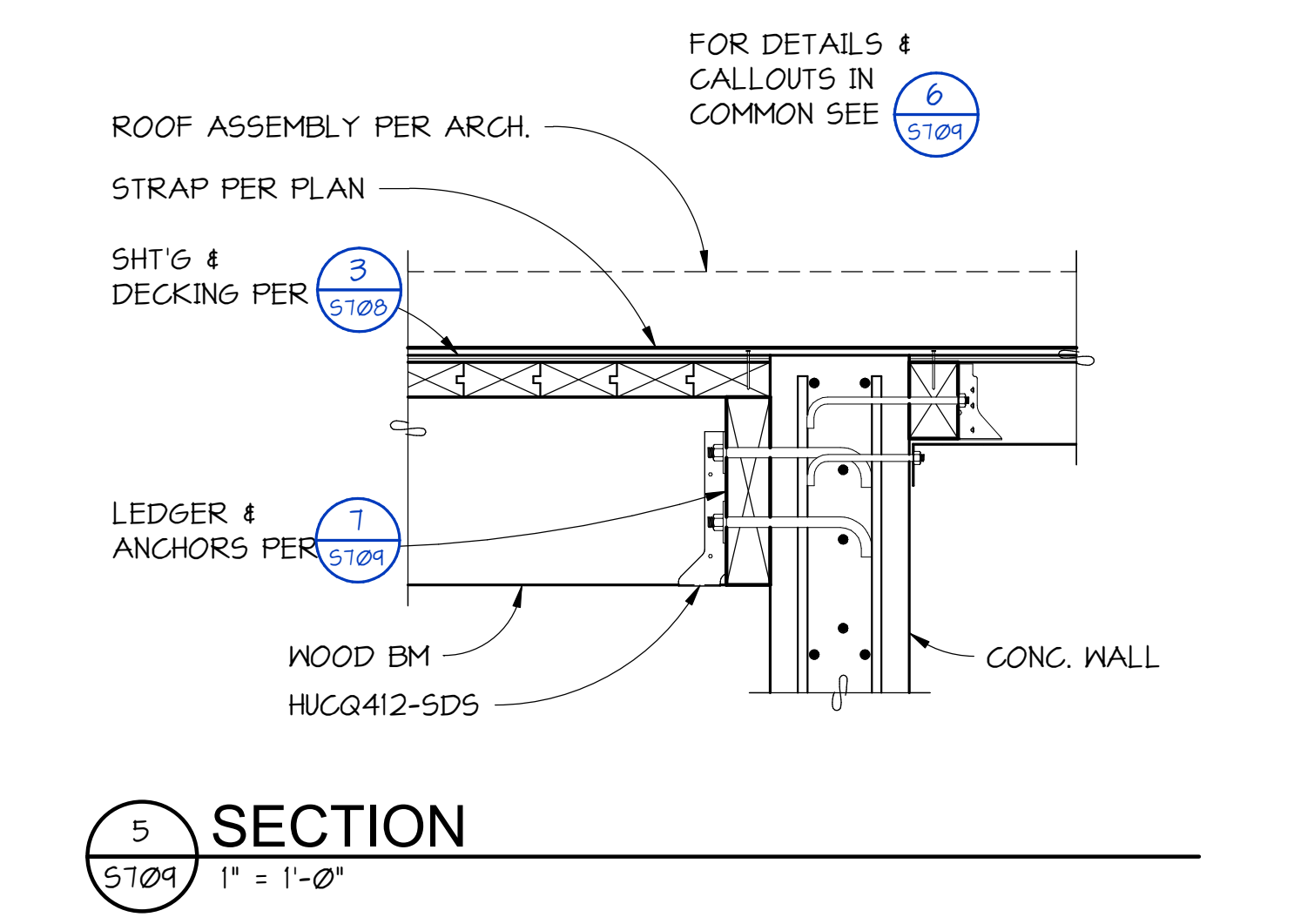
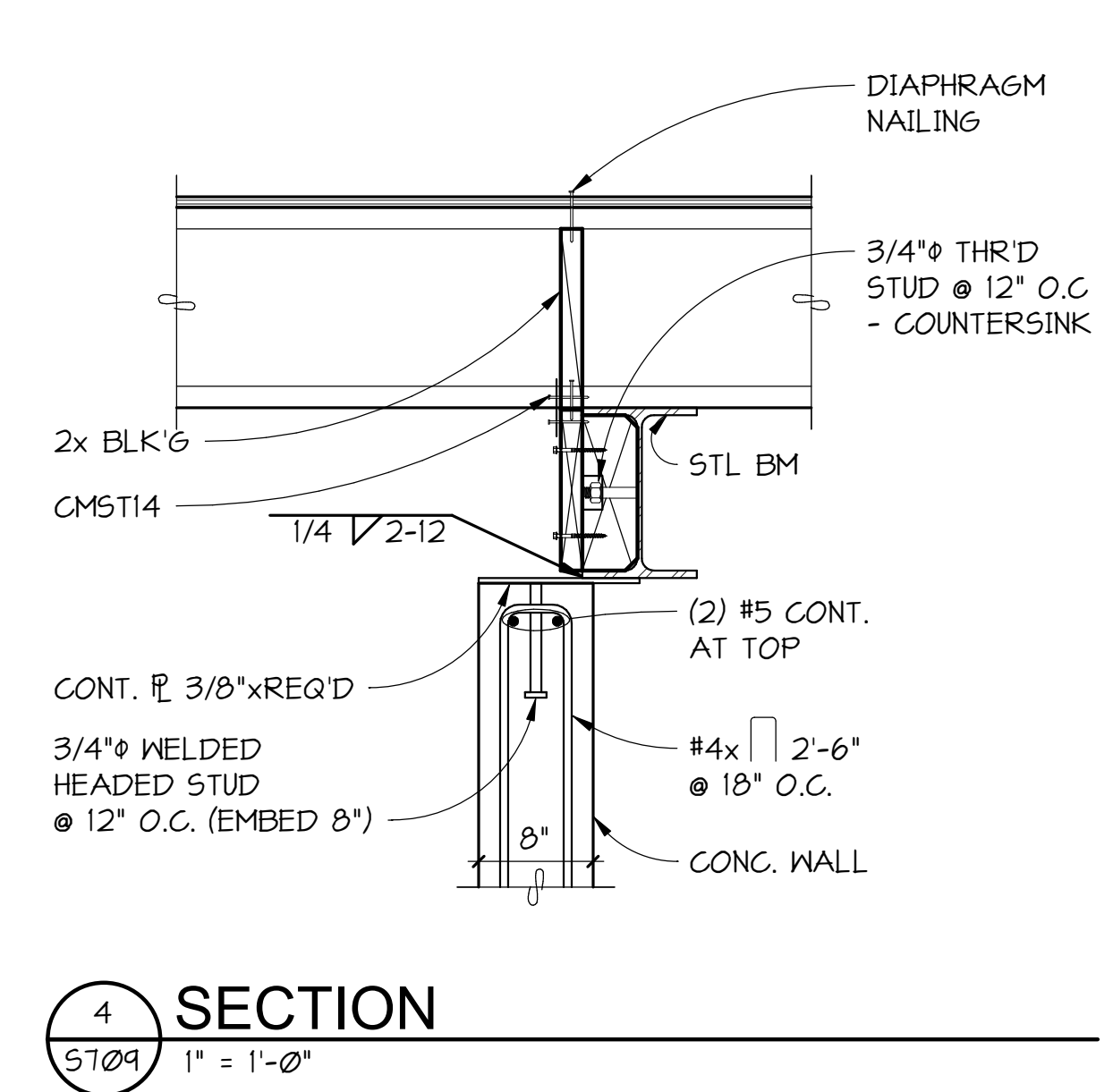
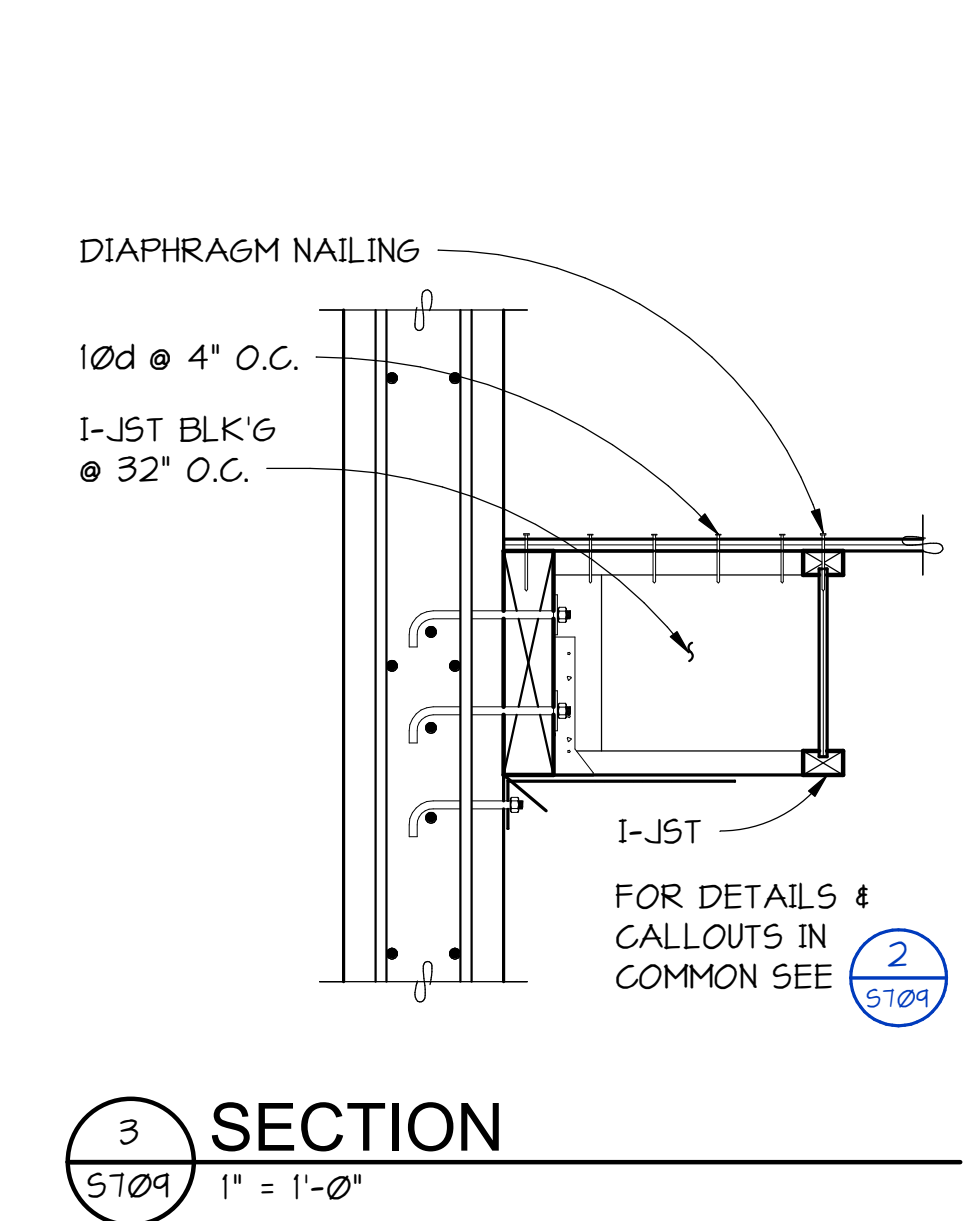
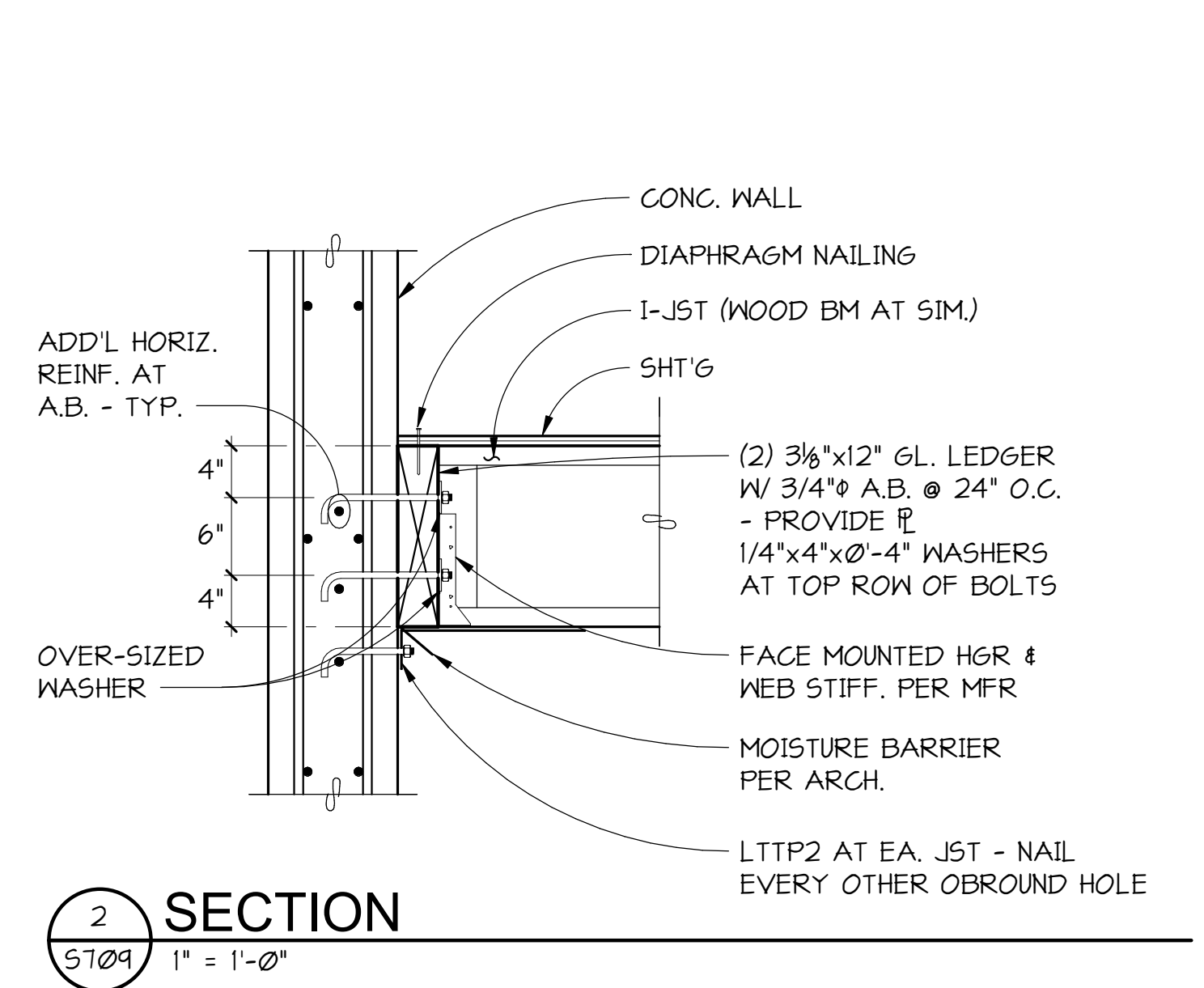
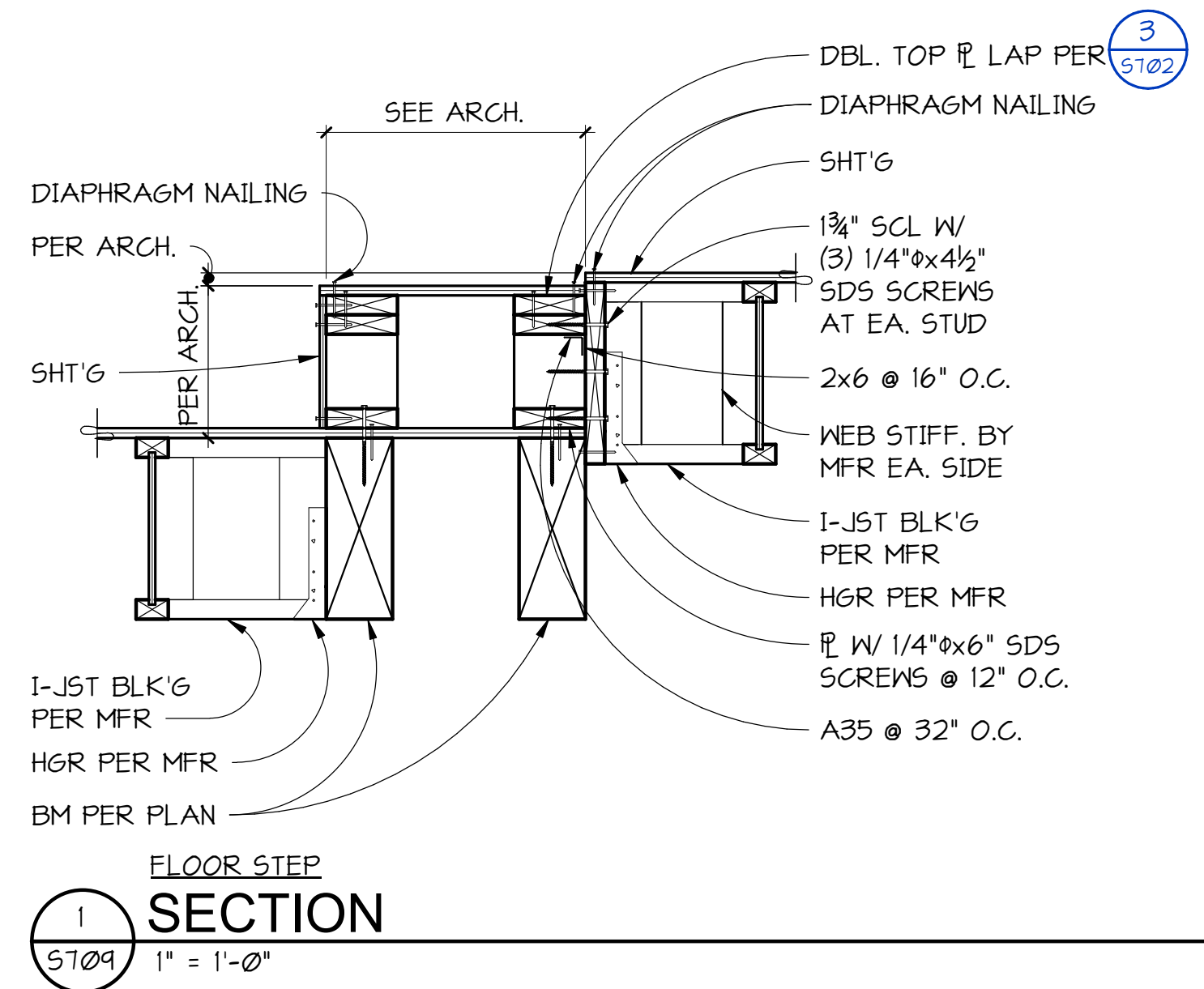
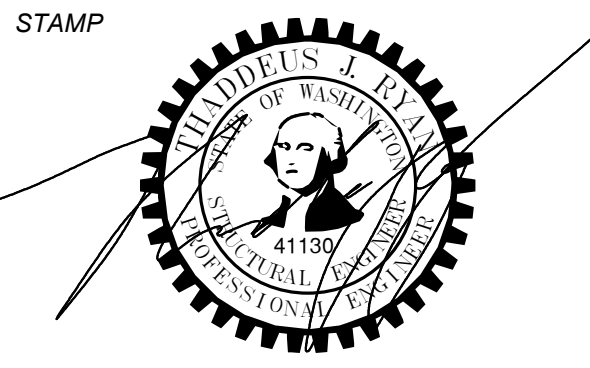
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**WOOD FRAMING DETAILS S708**



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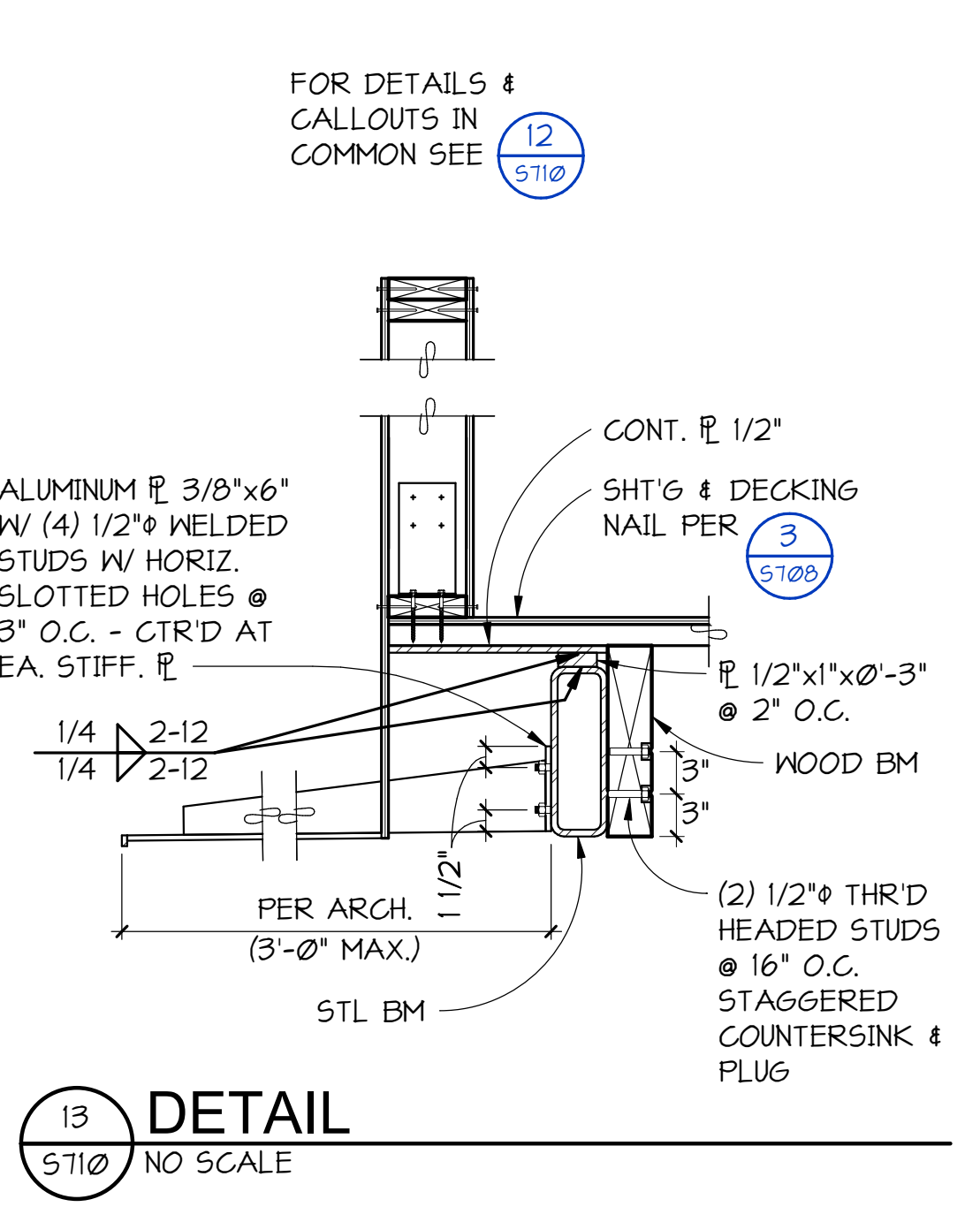
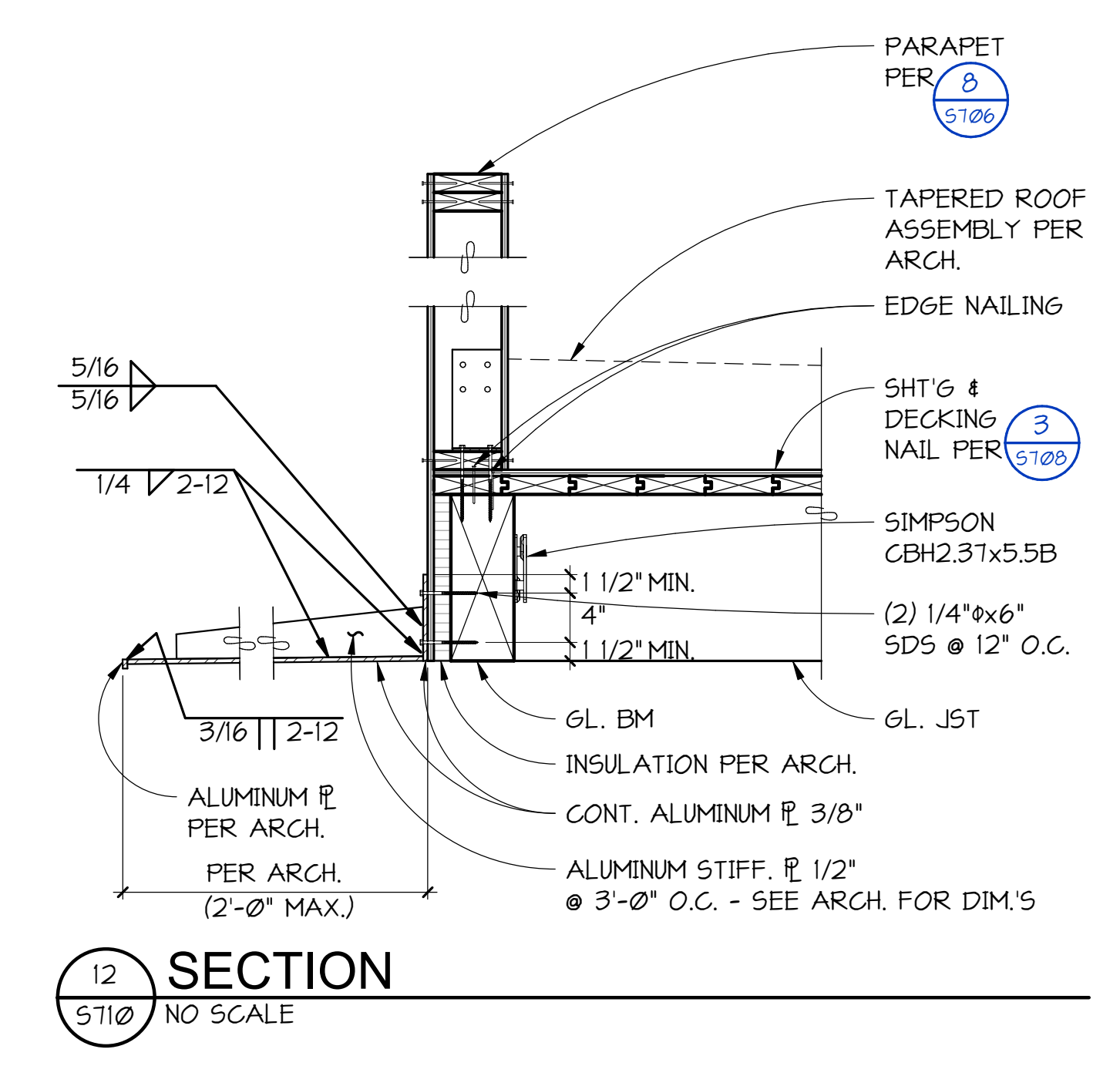
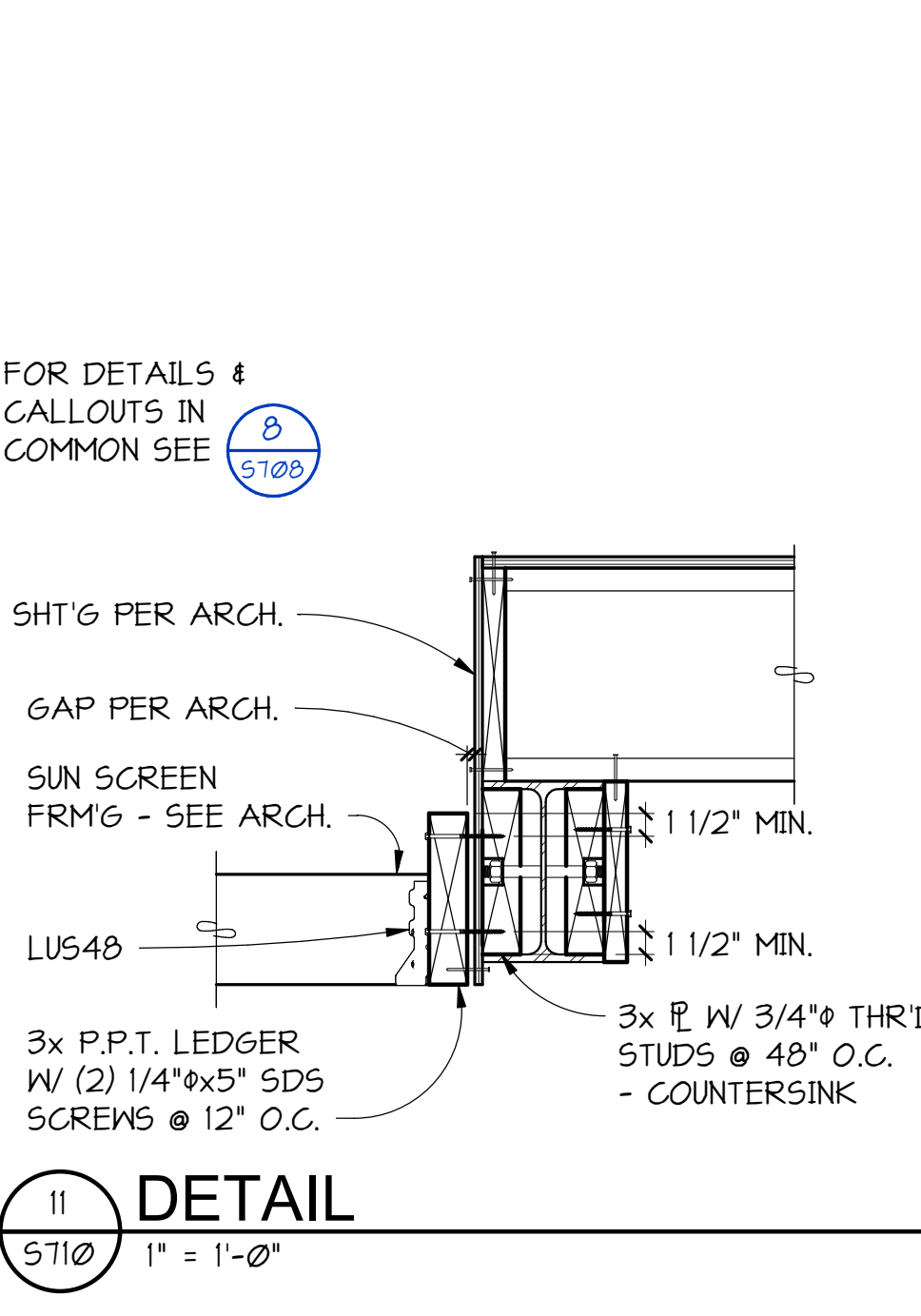
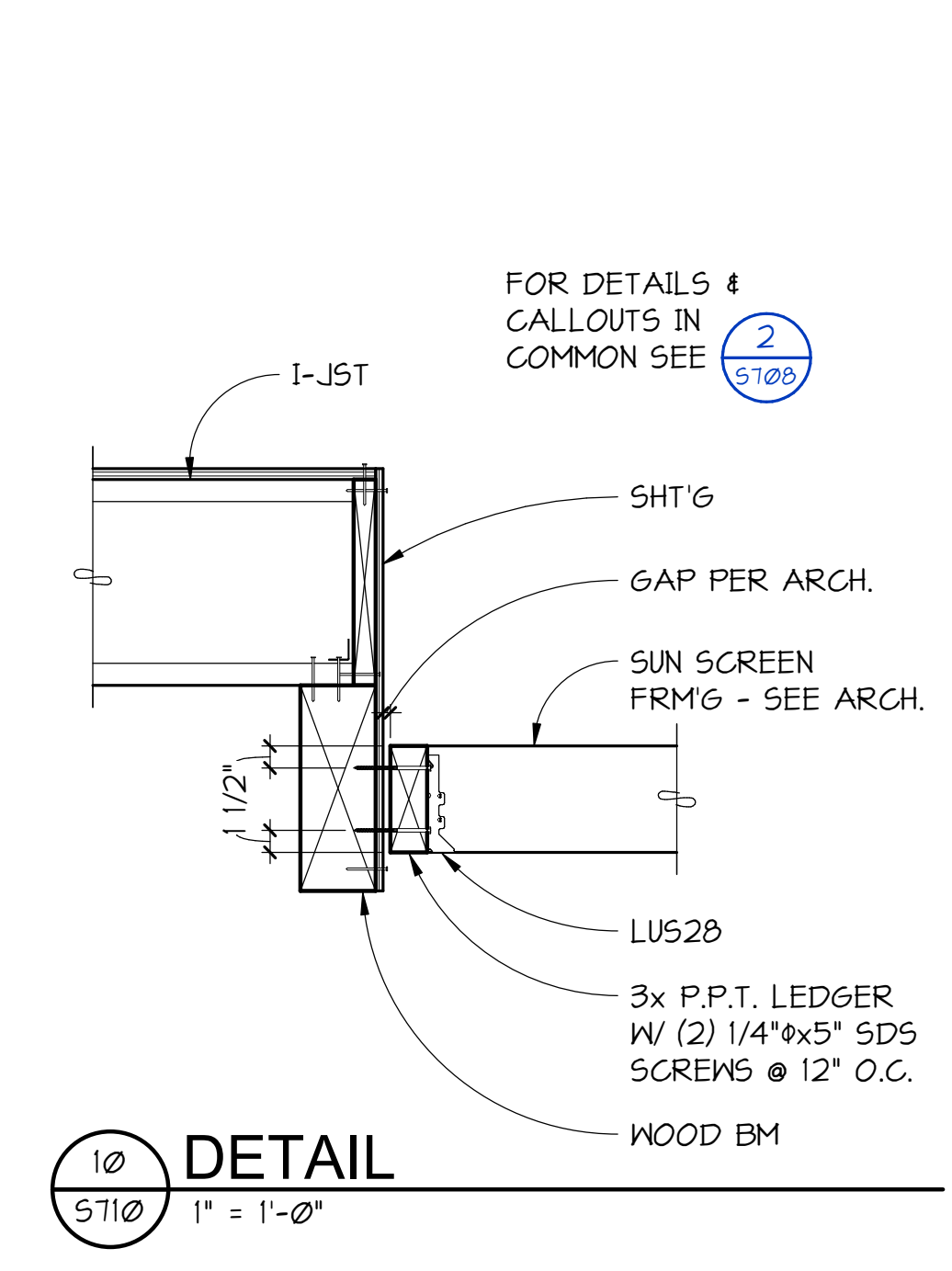
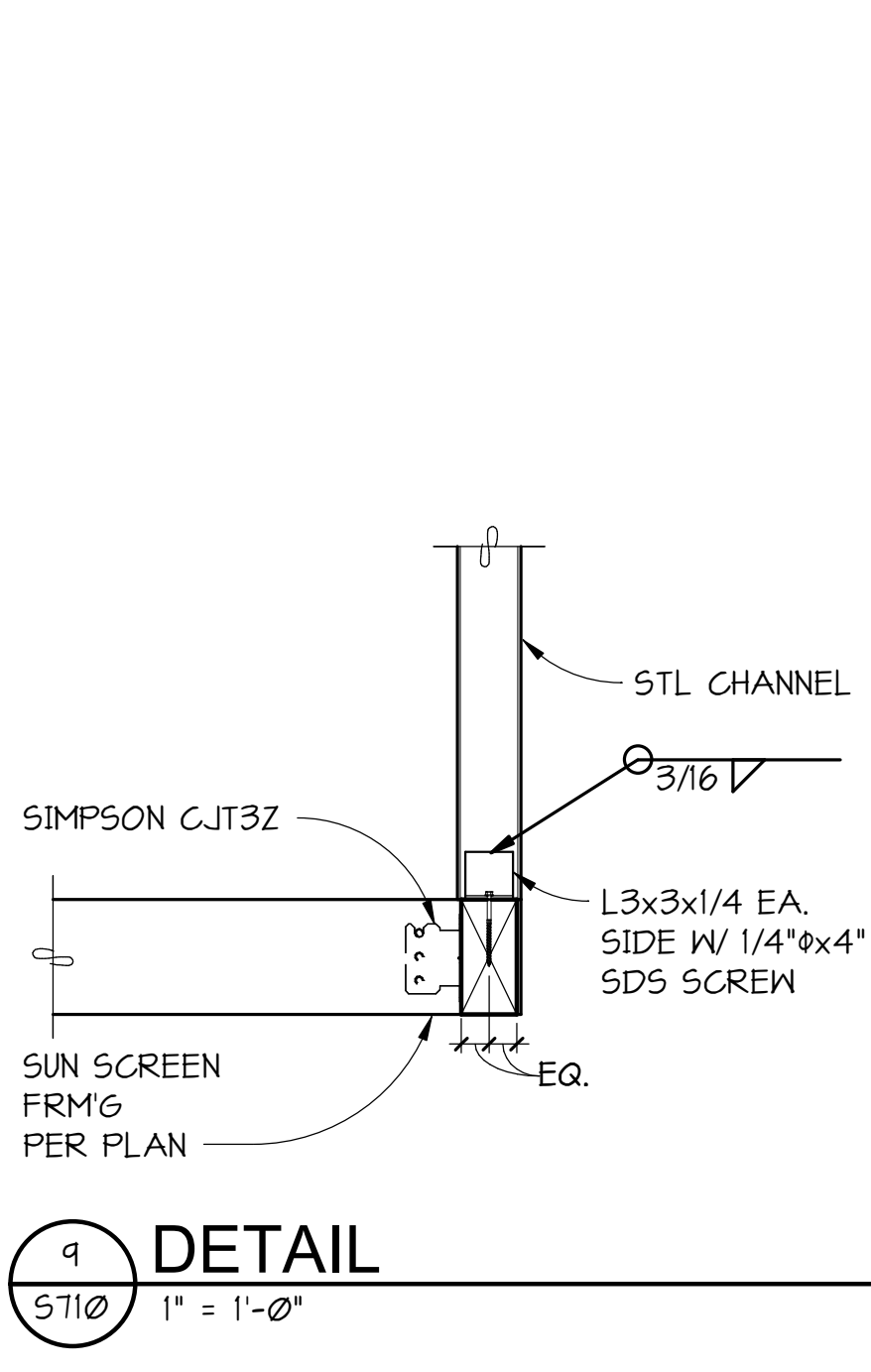
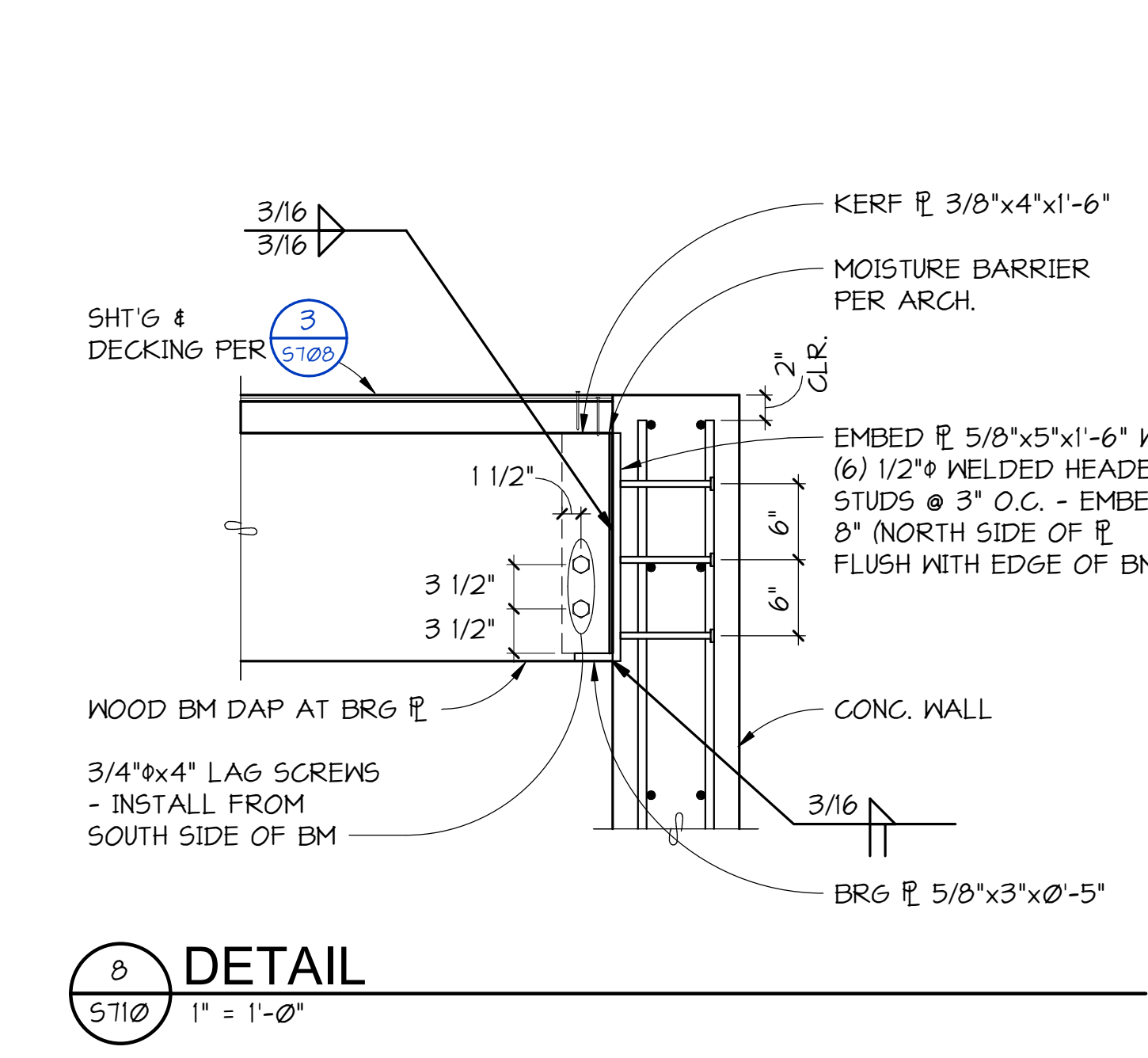
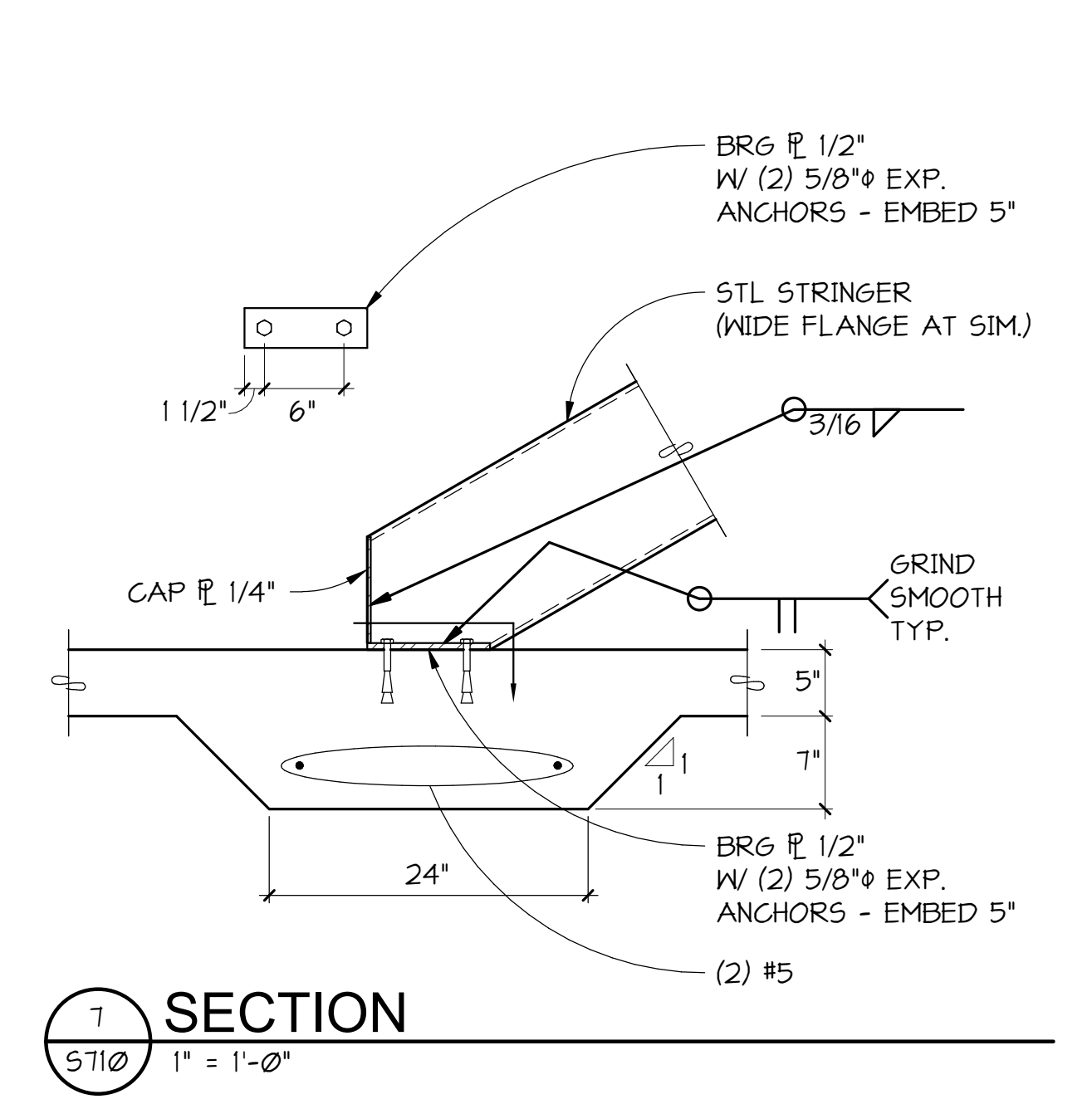
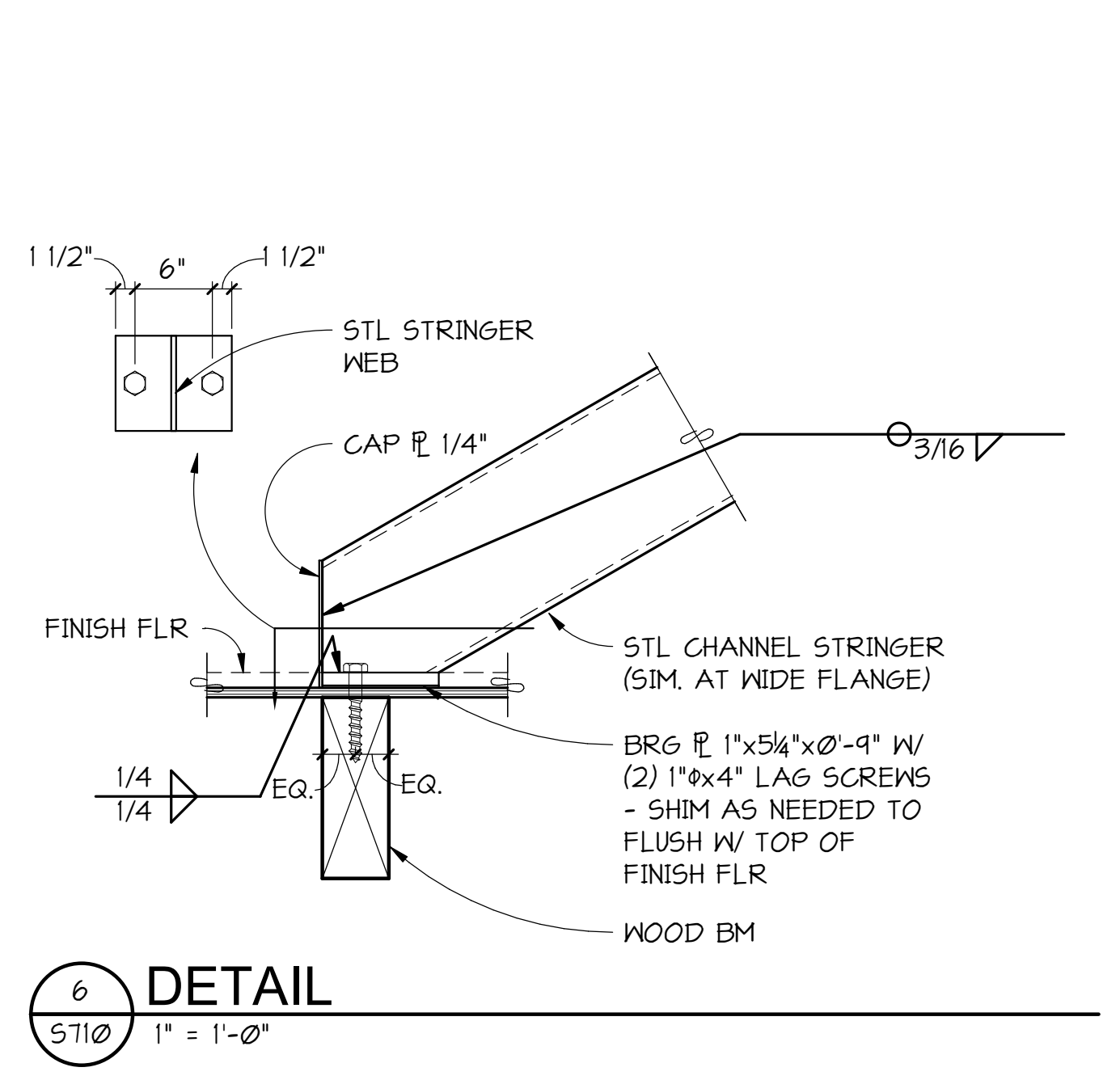
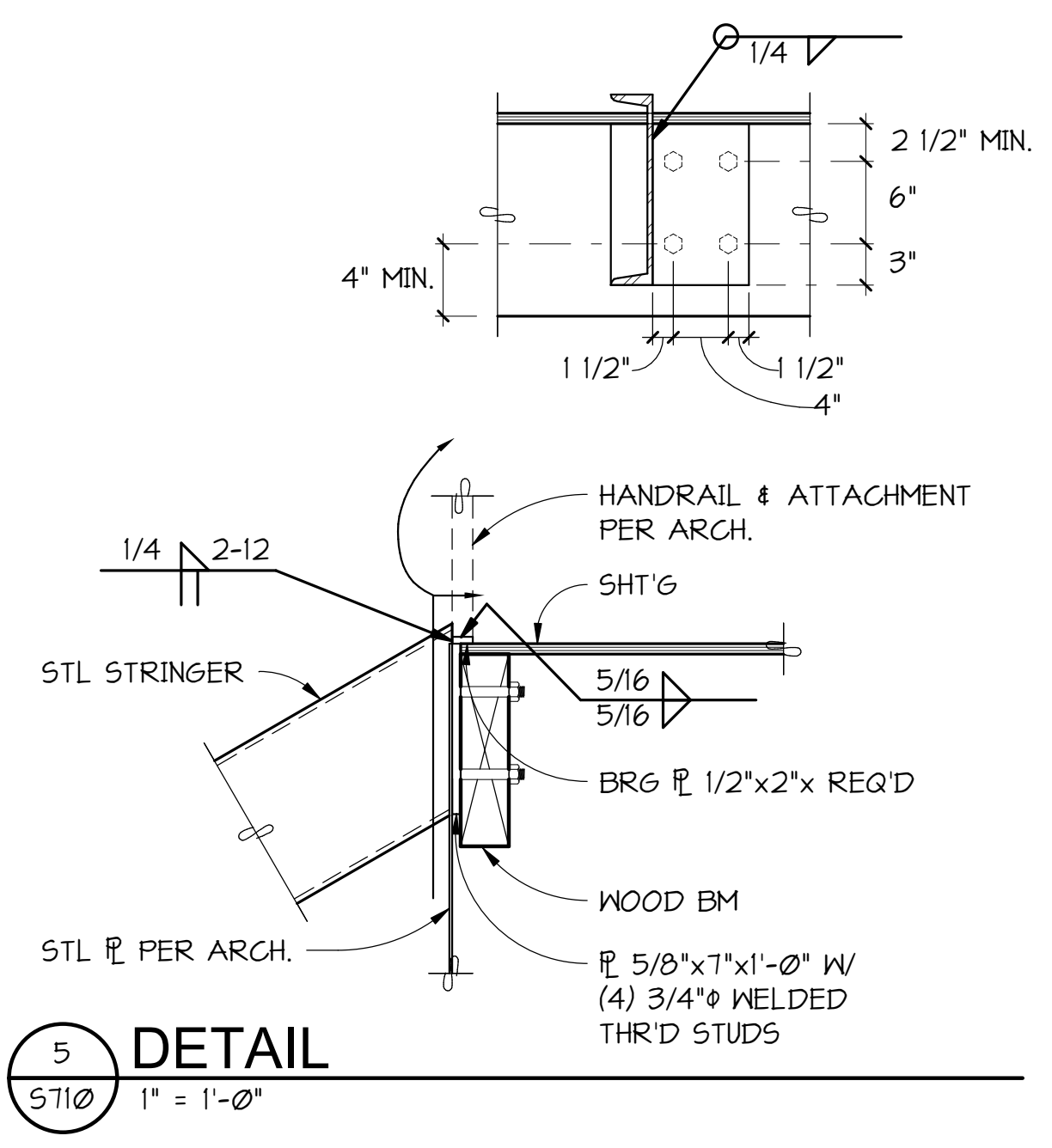
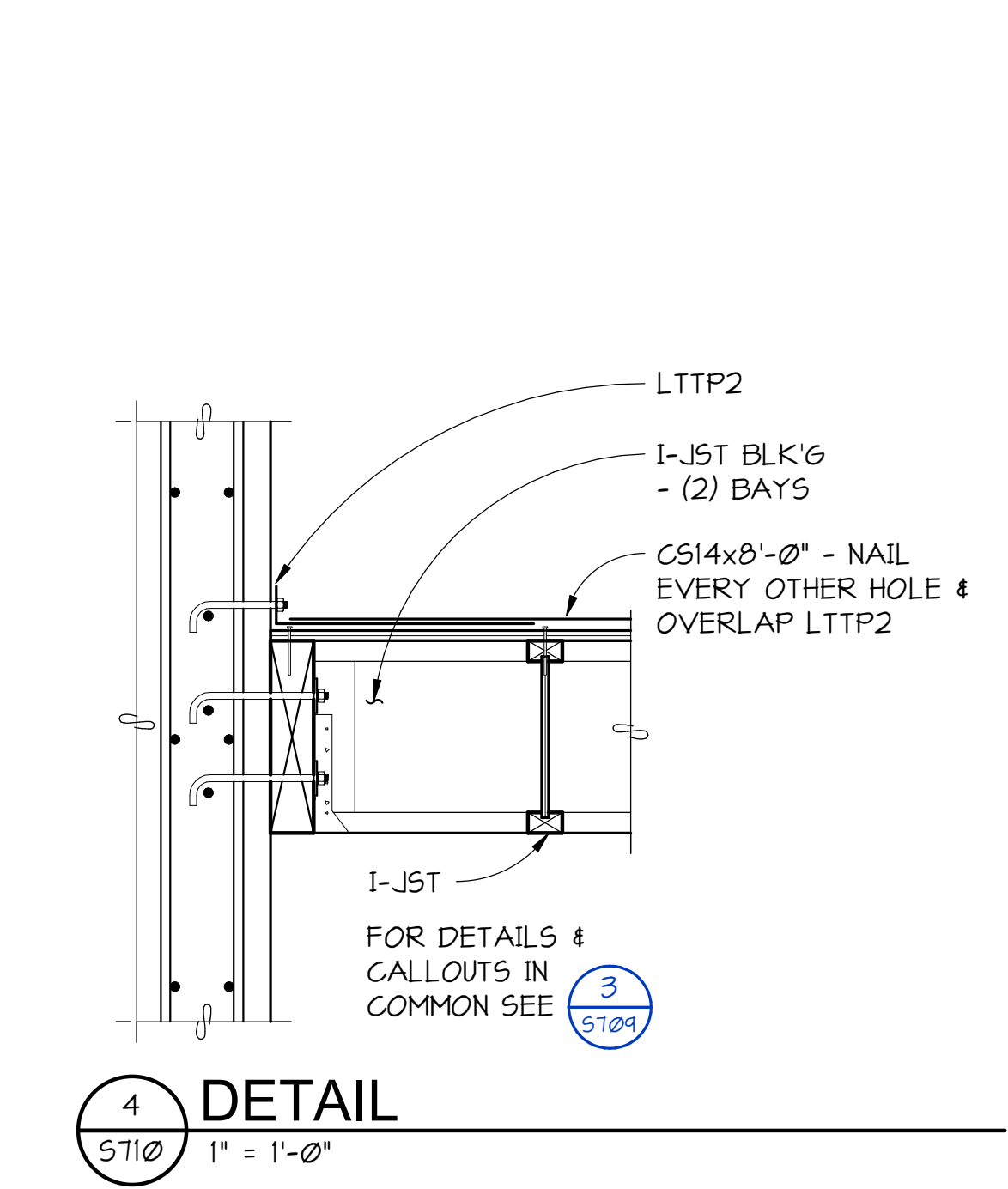
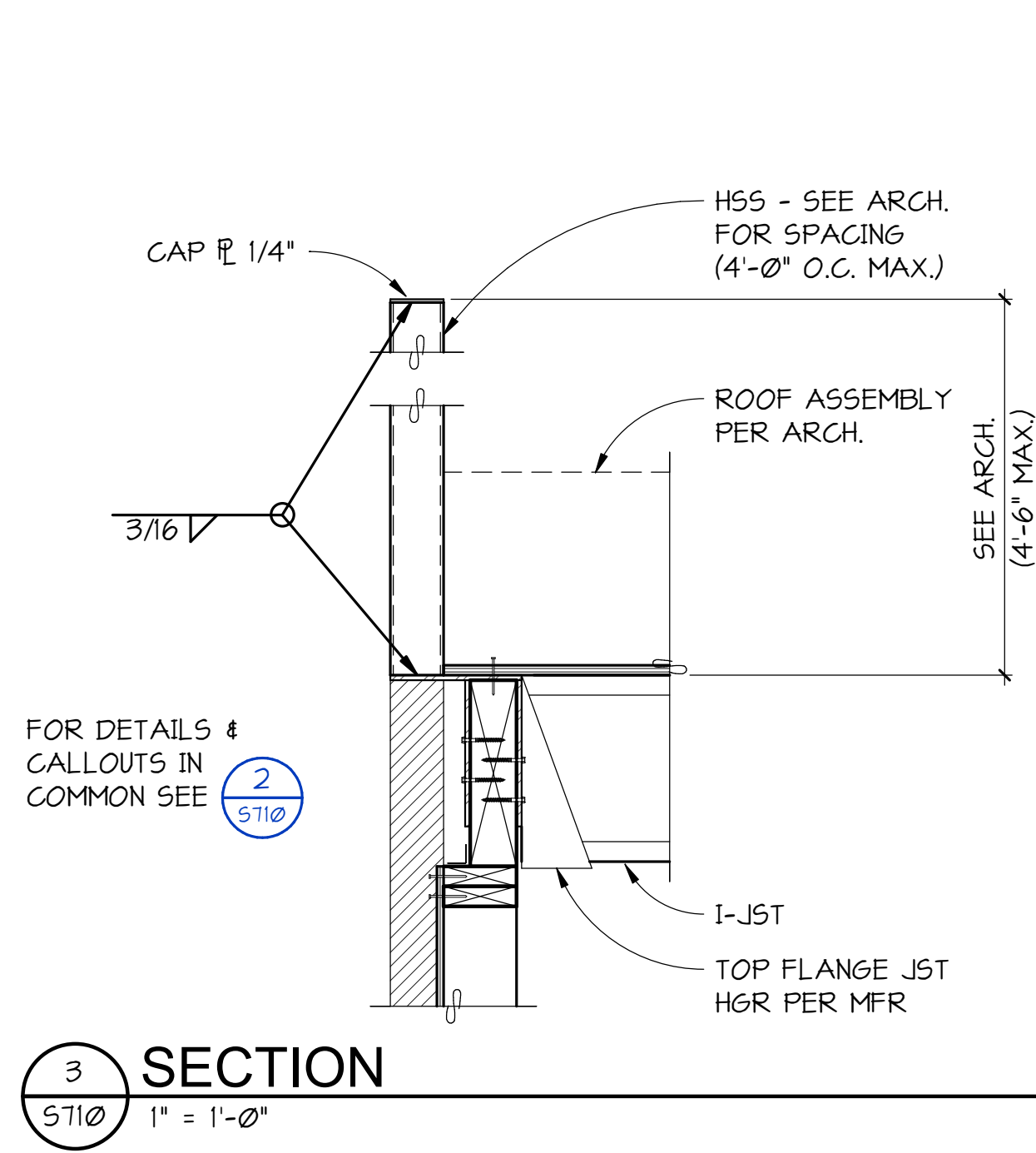
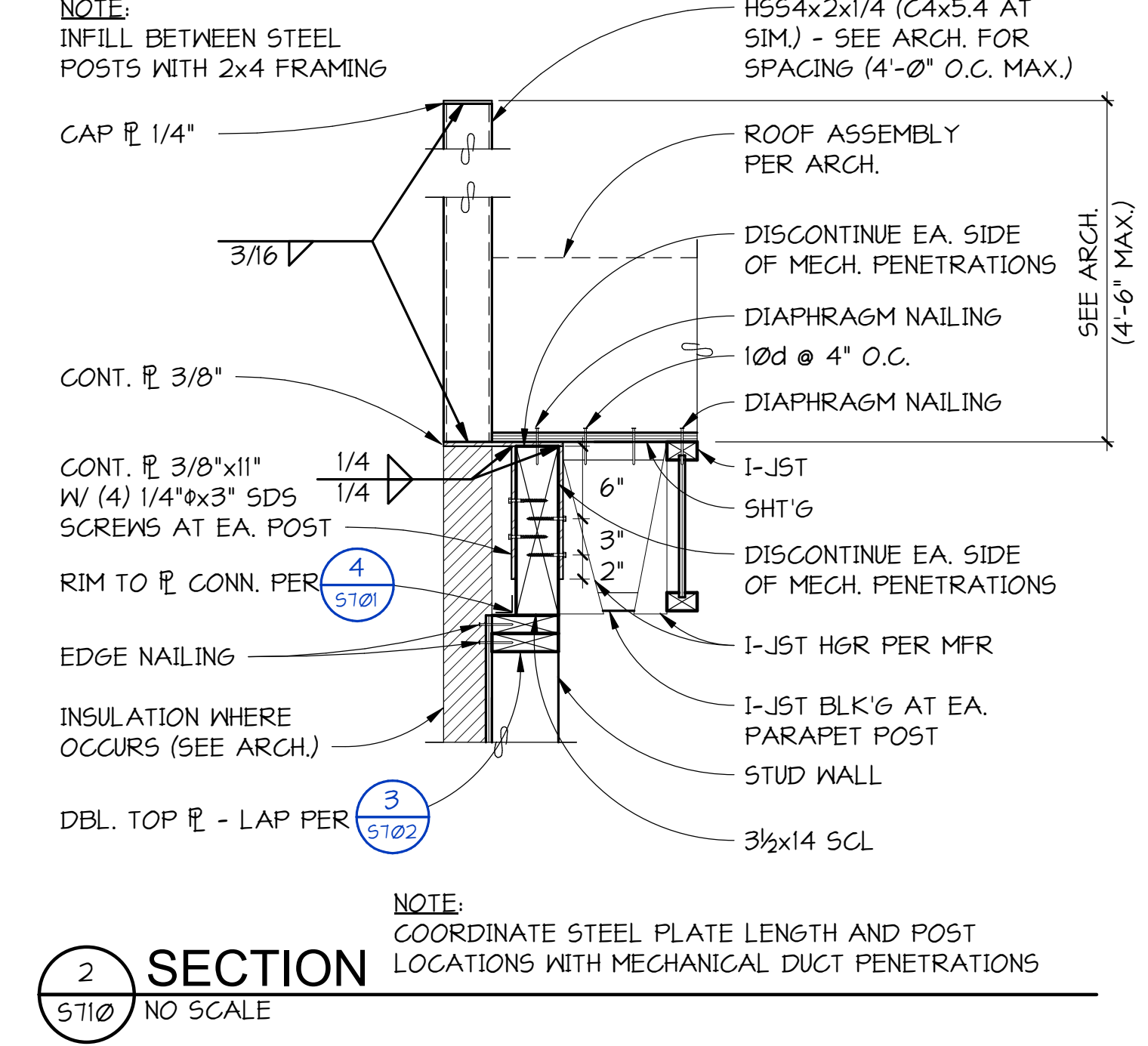
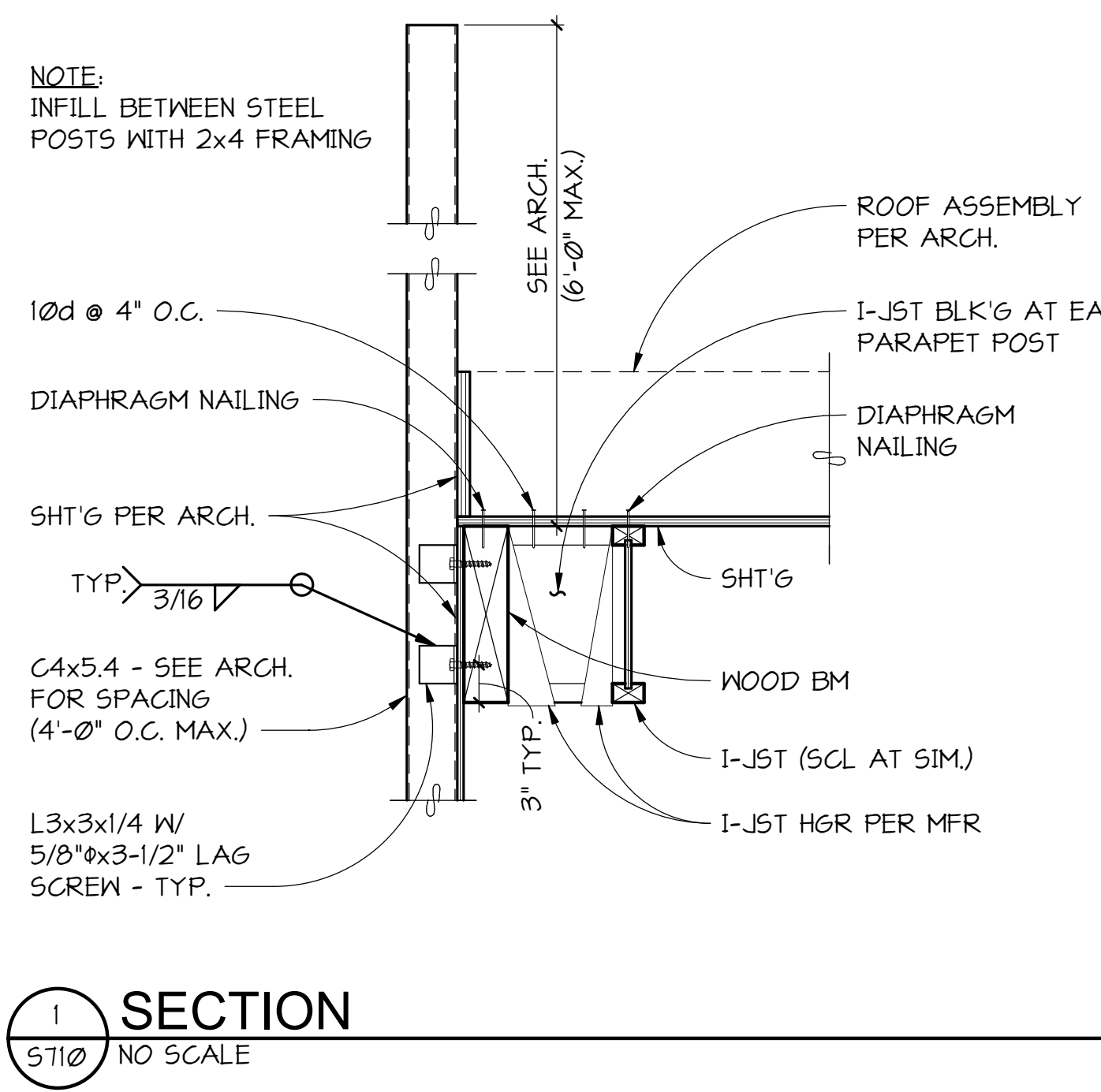
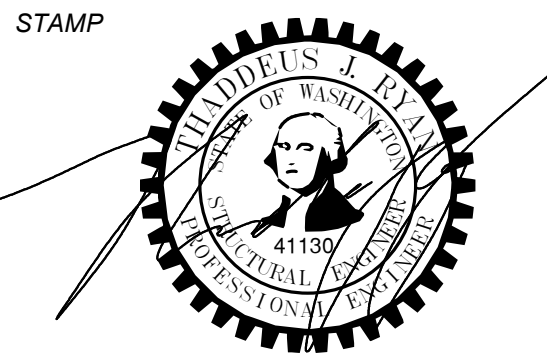
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