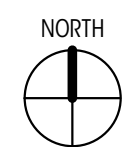
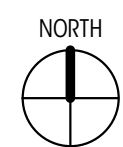
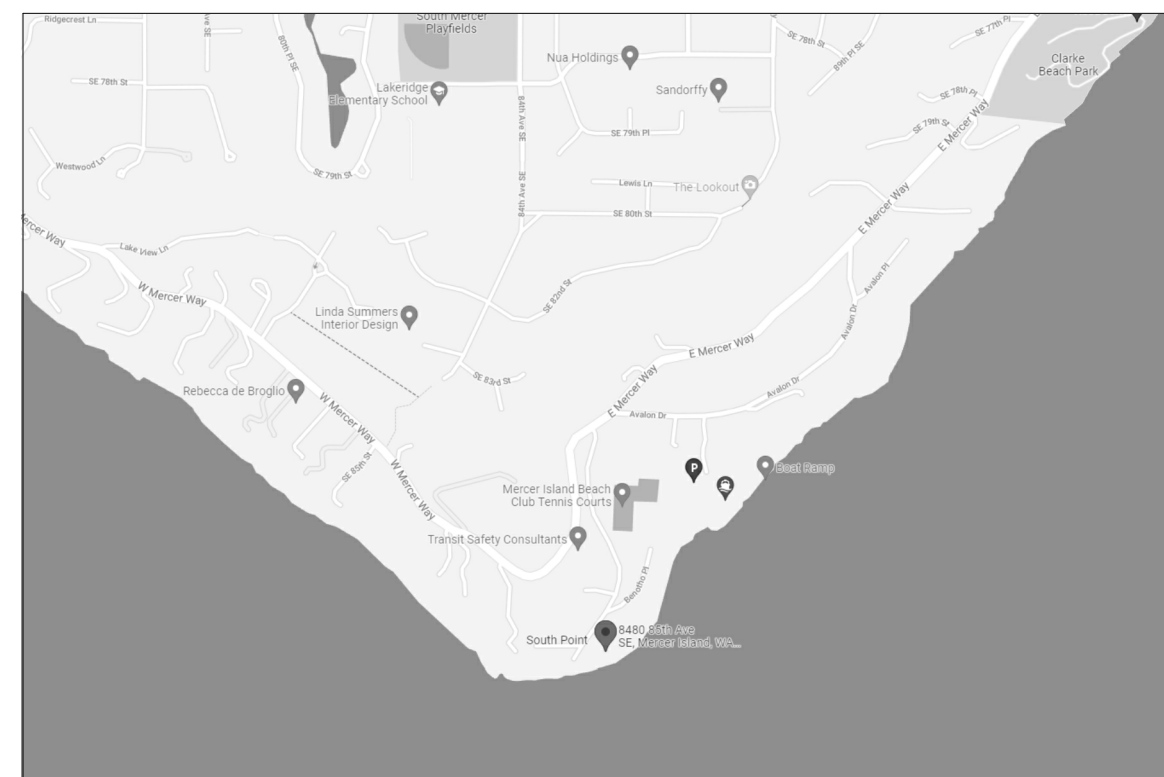


VICINITY PLAN



LOCATION PLAN



GENERAL NOTES

ALL WORK SHALL BE IN COMPLIANCE WITH THE 2018 INTERNATIONAL RESIDENTIAL CODE AS ADOPTED AND MODIFIED BY THE LOCAL JURISDICTIONAL LAND USE CODE, AND ALL OTHER LAWS, CODES, ORDINANCES AND REGULATIONS OF THE COUNTY, STATE, AND FEDERAL JURISDICTIONS. (LATEST EDITION AND AMENDMENTS)

ALL UNDERGROUND UTILITIES MUST BE VERIFIED AS TO EXACT LOCATIONS SO AS NO INTERFERENCE BY DISRUPTION WILL BE CAUSED. GENERAL CONTRACTOR SHALL PROTECT EXISTING FACILITIES, STRUCTURES AND UTILITIES BY THE METHODS RECOMMENDED AT THE PRE-CONSTRUCTION SITE MEETING. DAMAGE THAT MAY BE CAUSED BY GENERAL CONTRACTOR OR SUBCONTRACTOR TO ANY OF THE ABOVE MENTIONED SHALL BE REPAIRED BY HIM AND LEFT IN AS GOOD A CONDITION AS EXISTED PRIOR TO DAMAGES.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE IDENTIFICATION AND REMOVAL OF ALL HAZARDOUS MATERIALS IN COMPLIANCE WITH ALL APPLICABLE CODES AND LAWS PRIOR TO ANY WORK COMMENCING. IN THE EVENT THAT THE OWNER IS ACTING AS THE GENERAL CONTRACTOR, THE OWNER IS RESPONSIBLE FOR THE IDENTIFICATION AND REMOVAL OF ALL HAZARDOUS MATERIALS IN COMPLIANCE WITH ALL APPLICABLE CODES AND LAWS PRIOR TO ANY WORK COMMENCING.

CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND JOB CONDITIONS RELATED TO THIS WORK. ALL DIMENSIONS SHALL BE CONSIDERED "NORMAL" UNLESS NOTED OTHERWISE. DO NOT SCALE DRAWINGS. USE WRITTEN DIMENSIONS ON LARGE SCALE DRAWINGS OR DETAILS WILL PREVAIL OVER SMALLER SCALED DRAWINGS. WRITTEN DIMENSIONS ARE DRAWN TO THE FACE OF STUD. U.I.D. VERIFY ALL DIMENSIONS FOR EQUIPMENT, PROVIDE ALL BLOCKOUTS, BLOCKINGS, AND JACKS AS REQUIRED BY THE DRAWINGS AND OTHER TRADES. ANY DISCREPANCY IN DIMENSIONS SHALL BE REPORTED IN WRITING TO THE PROJECT MANAGER/DESIGNER FOR CLARIFICATION, OR APPROVAL OF MODIFICATION BEFORE COMMENCING WORK. THE RESPONSIBILITY TO THE PROJECT MANAGER/DESIGNER, SHALL REST WITH THE CONTRACTOR OR ANY OTHER PERSON APPROVING SUCH A CHANGE.

ALL WORKMANSHIP AND MATERIALS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF CERTIFICATE OF OCCUPANCY UNLESS SPECIFIED FOR A LONGER PERIOD OF TIME ON SPECIFIED ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING OR REPAIRING HIS OWN DEFECTIVE WORK AS WELL AS PAY ALL COSTS INCIDENTAL THERETO INCLUDING DAMAGE TO OTHER WORK, FURNISHINGS OR EQUIPMENT.

ALL WARRANTIES OR GUARANTEES AS TO MATERIALS OR WORKMANSHIP ON OR WITH RESPECT TO THE OWNER'S WORK SHALL BE CONTAINED IN THE CONTRACT OR SUBCONTRACT WHICH SHALL BE SO WRITTEN THAT SUCH GUARANTEE OR WARRANTIES SHALL INSURE TO THE BENEFIT OF OWNER.

INSURANCE - PRIOR TO THE COMMENCEMENT OF WORK THE GENERAL CONTRACTOR SHALL DELIVER TO THE OWNER CERTIFICATES OF INSURANCE FOR BOTH COMPREHENSIVE GENERAL LIABILITY AND WORKMAN'S COMPENSATION INCLUDING THE TOTAL AMOUNT OF COVERAGE AND CONDITIONS STIPULATED AND AGREED BY BOTH PARTIES.

THE OWNER SHALL BE RESPONSIBLE FOR PAYING FOR THE BUILDING PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL OTHER PERMITS REQUIRED OR NECESSARY FOR THE COMPLETION OF THE WORK FROM THE RESPECTIVE AGENCIES. THE CONTRACTOR SHALL NOTIFY THE GOVERNING AGENCIES AS REQUIRED FOR SITE INSPECTIONS.

ALL TRADES SHALL REFER TO THE ARCHITECTURAL DRAWINGS REGARDING LOCATIONS OF WORK TO BE INSTALLED. UNLESS OTHERWISE NOTED, PROVIDE ALL MISCELLANEOUS FASTENERS, HARDWARE AND ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION. EVEN THOUGH SUCH ITEMS MAY NOT HAVE BEEN SPECIFICALLY MENTIONED IN THE DRAWINGS AND SPECIFICATIONS, NOTIFY THE ARCHITECT OF ANY REVISIONS OR ADDITIONAL INFORMATION OBTAINED FROM THE MANUFACTURER OF SPECIFIED MATERIALS OR EQUIPMENT WHICH MAY AFFECT THE CONTRACT TIME, COST OR QUALITY OF WORK.

GENERAL CONDITIONS
THE GENERAL CONTRACTOR, ALL SUB-CONTRACTORS AND ALL MAJOR SUPPLIERS SHALL SUBMIT TO THE OWNER WITHIN 30 DAYS AFTER COMPLETION ALL RELEASE OF LIENS FOR ALL WORK PERFORMED PRIOR TO FINAL PAYMENT.

PARTIAL LIEN WAIVERS TO BE SUBMITTED WITH MONTHLY REQUESTION.

ALL MANUFACTURERS AND/OR SUPPLIERS SHALL SUBMIT SHOP DRAWINGS AND/OR MATERIAL SAMPLES TO THE DESIGNER/OWNER FOR APPROVAL PRIOR TO FABRICATION.

ALL OF THE GENERAL CONTRACTOR'S EQUIPMENT, SCAFFOLDING HOISTS, ETC. SHALL BE AVAILABLE TO THE OWNER/DESIGNER AND THEIR STAFF FOR INSPECTION OF ANY AND ALL WORK DURING NORMAL WORKING HOURS.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DELIVERY POINTS, HOISTS LOCATIONS, ACCESS TO AND FROM THE SITE OF THE BUILDING AND UTILITY SERVICES.

THE MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTOR SHALL FULLY COORDINATE ALL EQUIPMENT WITH THE OTHER TRADES. THESE CONTRACTORS SHALL BE RESPONSIBLE FOR FINAL HOOK-UP OF ALL EQUIPMENT NOT FURNISHED BY THEM BUT REQUIRING THE SAME FOR FINAL COMPLETION.

GENERAL CONTRACTOR TO BE RESPONSIBLE FOR SECURITY OF ALL MATERIALS AT JOB SITE UNTIL FINAL ACCEPTANCE OF WORK BY OWNER.

ANY SUBCONTRACTOR CUTTINGS INTO WORK ALREADY COMPLETED, CUTTING CHASES AND TRENCHES FOR THE INTRODUCTION OF HIS WORK AND EQUIPMENT IN THE BUILDING SHALL DO OR PAY FOR ALL BACK FILLING, REPAIRS OF WALLS, FLOOR, ETC., DAMAGE BY SUCH A COMPANY. ALL REPAIRS SHALL MATCH EXISTING SURFACES.

CONSTRUCTION SPECIFICATIONS
NO SUBSTITUTIONS ARE ALLOWED FOR MATERIALS WHERE SPECIFIC MANUFACTURERS ARE INDICATED, UNLESS APPROVED BY THE OWNER/ARCHITECT. REQUESTS FOR SUBSTITUTIONS SHALL BE MADE IN WRITING PRIOR TO ORDERING MATERIALS OR COMMENCING WORK. SUCH REQUESTS SHALL INCLUDE THE DATE, SCOPE OF WORK, ANY ADDITIONAL COSTS TO THE OWNER, AND ANY ANTICIPATED DELAYS CAUSED BY SUCH CHANGES.

NO EXTRA WORK OR CHANGE SHALL BE MADE UNLESS A WRITTEN CHANGE ORDER IS SUBMITTED AND SIGNED BY THE OWNER AND ARCHITECT. THE ORDER SHALL STATE THAT THE OWNER HAS AUTHORIZED THE EXTRA WORK OR CHANGE, AND NO CLAIM FOR AN ADDITIONAL SUM SHALL BE VALID UNLESS SO OFFERED AS DESCRIBED ABOVE.

ALL WOOD IN CONTACT WITH MASONRY OR CONCRETE OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED.

WOOD SPECIFICATIONS TO CONFORM TO OUTLINE SPECIFICATIONS, STRUCTURAL PLANS, NOTES, AND GENERAL CONDITIONS.

CALLING AND SEALANTS - INSTALLED SHALL BE GUARANTEED WATERIGHT. EXTERIOR METAL WORK, INCLUDING WINDOWS AND DOOR FRAMES AND ALL JUNCTIONS BETWEEN MASONRY, CONCRETE AND METAL SHALL BE SEALED WITH NEOPRENE OR POLYURETHANE FILLER AND APPROVED SEALANT COMPOUNDS.

PROVIDE GALVANIC INSULATION BETWEEN ALL DISSIMILAR METALS.

PROVIDE WATERPROOFING MEMBRANE OVER PROTECTIVE BOARD AT ALL WALLS EXPOSED TO EARTH.

ALL PIPING AND CONDUIT UNDER SLAB SHALL BE A MINIMUM OF 2" O' CLEAR OF UNDERSIDE OF FOOTING.

ALL FINAL SURFACE GRADING SHALL BE COMPLETED TO FACILITATE POSITIVE DRAINAGE AWAY FROM THE BUILDING UNLESS NOTED OTHERWISE.

PROVIDE AND INSTALL INSULATION AT EXTERIOR WALLS, ROOF, FLOOR LOCATIONS AS SHOWN, SPECIFIED AND IN ACCORDANCE WITH THE WASHINGTON STATE ENERGY CODE.

WATER PIPES TO BE INSULATED IN ALL UNHEATED AREAS.

INSULATE ALL ROUGH-IN PLUMBING IN WALLS, FLOORS, AND CEILINGS FOR SOUND TRANSMISSION.

PROJECT DATA

EXISTING LOT AREA SUMMARY	
GROSS LOT AREA	19,337 SF (PER SURVEY)
ACCESS EASEMENTS	0 SF
NET LOT AREA (ANDWARD OF CHWM)	18,231 SF
LOT SLOPE	(57.2' - 18.6') / 201.24' = 19.2%
TREE REMOVAL	
(E) TREES TO BE REMOVED	4
(N) TREES TO BE PLANTED AS REPLACEMENT	8
EXISTING LOT COVERAGE	
(E) RESIDENCE, GARAGE, AND OVERHANGS	3,912.96 SF
(E) DRIVING SURFACES	1,749.48 SF
(E) TOTAL LOT COVERAGE	5,662.44 SF = 31.1% OF LOT AREA
PROPOSED LOT COVERAGE	
(N) RESIDENCE, GARAGE, AND OVERHANGS	4,453.10 SF
(N) DRIVING SURFACES	1,746.88 SF
(N) TOTAL LOT COVERAGE	6,219.98 SF = 34.1% OF LOT AREA
ALLOWABLE LOT COVERAGE	
35% OF LOT AREA BASED ON LOT SLOPE, PER 19.02.020.F.3.a.	18,231 SF * 0.35 = 6,380.85 SF
EXISTING HARDSCAPE	
STAIRS	498.47 SF
PATIOS / WALKWAYS	1,990.28 SF
ROCKERIES	388.41 SF
SITE WALLS	162.61 SF
TOTAL EXISTING	3,039.77 SF = 16.7% OF LOT AREA (EXISTING NON-CONFORMING)
DEMOLISHED HARDSCAPE	
STAIRS	320.77 SF
PATIOS/WALKWAYS	1,990.28 SF
SITE WALLS	118.96 SF
TOTAL DEMOLISHED	2,430.01 SF
PROPOSED HARDSCAPE	
(E) HARDSCAPE TO REMAIN	
STAIRS	177.70 SF
ROCKERIES	388.41 SF
SITE WALLS	43.65 SF
TOTAL TO REMAIN	609.76 SF
(N) ADDED HARDSCAPE	
DECKS	440.52 SF
STAIRS	154.71 SF
PATIO/WALKWAYS	500.23 SF
SITE WALLS	95.09 SF
TOTAL ADDED	1,190.57 SF
TOTAL HARDSCAPE	1,800.33 SF = 9.9% OF LOT AREA (609.76 + 1,190.57) = 1,800.33
ALLOWABLE HARDSCAPE	
9% OF LOT AREA	18,231 SF * 0.09 = 1,640.79 SF
PER 19.02.020.F.3.b.ii., HARDSCAPE IMPROVEMENTS ARE PERMITTED IN THE MAXIMUM LOT COVERAGE AREA	4,580.85 SF - 6219.98 SF = 140.87 SF
REMAINING LOT COVERAGE	1,640.79 SF + 140.87 SF = 1,801.66 SF
TOTAL ALLOWABLE HARDSCAPE	1,801.66 SF

EXISTING BUILDING AREA SUMMARY (GFA)	
(E) BASEMENT LEVEL	1,820 SF
(E) MAIN LEVEL	2,000 SF
(E) GARAGE	767 SF
TOTAL EXISTING BUILDING AREA (GSF)	4,587 SF
EXISTING FLOOR AREA RATIO:	4,587/18,231 = 25.2% OF LOT AREA
PROPOSED BUILDING AREA SUMMARY (GFA)	
PROPOSED BASEMENT LEVEL	3,793.78 SF
PROPOSED BASEMENT LEVEL BELOW GRADE (EXCLUDED PER MCC CHAPTER 19 APPENDIX B, REF. SHEET A211)	(2,032.18 SF)
PROPOSED MAIN LEVEL (EXCLUDES STAIR PER MCC 19.02.020.D.2.c.)	2,438.08 SF
PROPOSED COVERED DECKS (PER MCC CHAPTER 19.16.010.G.1.e.)	95.56 SF
PROPOSED ATTACHED GARAGE	840.11 SF
PROPOSED ATTACHED GARAGE BELOW GRADE (EXCLUDED PER MCC CHAPTER 19 APPENDIX B, REF. SHEET A212)	(142.05 SF)
TOTAL PROPOSED BUILDING AREA (GSF)	4,993.28 SF
PROPOSED FLOOR AREA RATIO:	4,993.28/18,231 = 27.4% OF LOT AREA
5,000 SF, OR 40% ALLOWABLE GROSS FLOOR AREA MAX., WHICHEVER IS LESS	

SEIBACKS	
SIDE YARD (PER 19.02.020.C.1.c.)	
PER 19.16.010, LOT WIDTH IS THE DISTANCE BETWEEN THE TWO MIDPOINTS OF SIDE LOT LINES = 100'	
TOTAL 17% OF LOT WIDTH	100' * 0.17 = 17'
MINIMUM: 33% OF SIDE YARD TOTAL	17' * 0.33 = 5.61'
FRONT YARD	20'
SHORELINE	25' FROM THE ORDINARY HIGH WATER MARK

OCCUPANCY SUMMARY	
EXISTING TYPE	R-3
OCCUPANT LOAD	SINGLE FAMILY
ENERGY CODE SUMMARY (2018 WASHINGTON STATE ENERGY CODE, RESIDENTIAL PROVISIONS)	
CLIMATE ZONE (PER TABLE R201.1)	
PRESCRIPTIVE THERMAL ENVELOPE PER TABLE R402.1.1	
EFFICIENT ENVELOPE OPTION 1.3 (SECTION R404)	
REINTEGRATION LIFTOFF (VERTICAL):	0.28
SKYLIGHT LIFTOFF (OVERHEAD):	0.49
CEILING:	R-49
VAULTED CEILING:	R-38
WALL ABOVE GRADE:	R-21
WALL BELOW GRADE (INT.):	R-21 (INT.) OR R-10 (EXT.)
FLOOR ABOVE GRADE:	R-38
SLAB ON GRADE @ BASEMENT:	R-10

AIR LEAKAGE OPTION 2.3	
REDUCE THE TESTED AIR LEAKAGE TO 1.5 AIR CHANGES PER HOUR MAXIMUM AT 50 PASCALS - AND - ALL WHOLE HOUSE VENTILATION REQUIREMENTS AS DETERMINED BY SECTION M1507.3 OF THE INTERNATIONAL RESIDENTIAL CODE OR SECTION 403.8 OF THE INTERNATIONAL MECHANICAL CODE	
SHALL BE MET WITH A HEAT RECOVERY VENTILATION SYSTEM WITH MINIMUM SENSIBLE HEAT RECOVERY EFFICIENCY OF 0.75.	
HIGH EFFICIENCY HVAC OPTION 3.1	
ENERGY STAR RATED (U.S. NORTH) GAS OR PROPANE FURNACE WITH MINIMUM AFUE OF 95% - OR - ENERGY STAR RATED (U.S. NORTH) GAS OR PROPANE BOILER WITH MINIMUM AFUE OF 90%.	
RENEWABLE ELECTRICITY OPTION 4.1	
FOR EACH 1200 KW/H OF ELECTRICAL GENERATION PER HOUSING UNIT PROVIDED ANNUALLY BY ON-SITE WIND OR SOLAR EQUIPMENT A 1.0 CREDIT SHALL BE ALLOWED, UP TO 3 CREDITS. GENERATION SHALL BE CALCULATED AS FOLLOWS: FOR SOLAR ELECTRIC SYSTEMS, THE DESIGN SHALL BE DEMONSTRATED TO MEET THIS REQUIREMENT USING THE NATIONAL RENEWABLE ENERGY LABORATORY CALCULATOR PVWATTS OR APPROVED ALTERNATE BY THE CODE OFFICIAL.	
ENERGY EFFICIENT APPLIANCE PACKAGE OPTION 7.1	
ALL OF THE FOLLOWING APPLIANCES SHALL BE NEW AND INSTALLED IN THE DWELLING UNIT AND SHALL MEET THE FOLLOWING STANDARDS: DISHWASHER - ENERGY STAR RATED, REFRIGERATOR (IF PROVIDED) - ENERGY STAR RATED, WASHING MACHINE - ENERGY STAR RATED, DRYER - ENERGY STAR RATED VENTLESS DRYER WITH A MINIMUM CEF RATING OF 5.2.	

HEATING	
INSTALLED PER INTERNATIONAL MECHANICAL CODE, WORK TO BE COMPLETED UNDER A SEPARATE PERMIT.	
VENTILATION	
FAIS ON THEM, PER PLANS. VOLUME OF REQUIRED OUTDOOR VENTILATION AIR TO BE PROVIDED BASED ON TABLE 403.8.5.1 OF THE INTERNATIONAL MECHANICAL CODE.	
* PLUMBING, MECHANICAL, ELECTRICAL WORK TO BE PERMITTED SEPARATELY. SEE SHEET 0001 FOR VENTILATION & ENERGY CALCULATIONS.	
FIRE DEPARTMENT NOTES	
PROJECT TO BE EQUIPPED WITH A NFPA-130 FIRE SPRINKLER SYSTEM.	
PROJECT TO BE EQUIPPED WITH A NFPA-72 HOUSEHOLD MONITORED SMOKE ALARM SYSTEM.	
PROJECT TO HAVE 5/8" TYPE X GYPSUM WALL BOARD AT GARAGE WALLS AND CEILING.	
PROJECT TO HAVE SELF-CLOSING, RATED FIRE DOOR FROM GARAGE TO RESIDENCE.	
PROJECT TO USE SOLID CORE DOORS THROUGHOUT.	

GENERAL INFORMATION

PROJECT ADDRESS	8480 85TH AVE SE MERCER ISLAND, WA 98040
PROJECT NUMBER	TBD
ASSESSOR'S PARCEL #	073610-0155
LEGAL DESCRIPTION	BENOTHO BEACH UNREC VAL OF UNDEEDED STS & ALLEYS INCL IN ADJ LOT VAL & SH LDS ADJ LESS C & M RPTS. PLAT LOT: 26-27
PROJECT DESCRIPTION	DEMOLITION OF A SINGLE FAMILY RESIDENCE AND NEW CONSTRUCTION OF A SINGLE FAMILY RESIDENCE
ZONE	R-8.4
BUILDING TYPE	SINGLE FAMILY RESIDENCE

PROJECT DIRECTORY

OWNER	XIAOXIA WU 8480 85TH AVE SE MERCER ISLAND, WA 98040 xiaoxiao@gmail.com
ARCHITECT	COLIN BRANDT BRANDT DESIGN GROUP 66 BELL ST., UNIT 1 SEATTLE, WA 98121 206.239.0850 ext. 0011 colin@brandtdesigninc.com
OWNER'S AGENT/CONTACT	BREE MEDLEY BRANDT DESIGN GROUP 66 BELL ST., UNIT 1 SEATTLE, WA 98121 206.239.0850 ext. 0012 bree@brandtdesigninc.com
GENERAL CONTRACTOR	TBD ADDRESS #1: TBD ADDRESS #2: TBD CITY, STATE ZIP CODE: TBD PHONE: TBD EMAIL: TBD
STRUCTURAL ENGINEER	BRETT MOZDEN SWENSON SAY FAGET 2124 THIRD AVENUE, SUITE 100 SEATTLE, WA 98121 206.443.6212 bmozden@stengineers.com
CIVIL ENGINEER	BRADY BERTRMAN LATITUDE 48 ENGINEERS 400 1ST AVENUE SEATTLE, WA 98104 206.556.1615 brady@latitude-48.com
GEOTECHNICAL ENGINEER	MARC MCGINNIS GEOTECH CONSULTANTS, INC. 2401 10TH AVENUE EAST, SEATTLE, WA 98102 425.260.1116 mrcm@geotechinc.com
ARBORIST	ANTHONY MORAN SUPERIOR NW TREE & SHRUB CARE INC. 13110 NE 177TH PL., WOODBRIDGE, WA 98072 206.232.0276 anthony@superiornw.com
SURVEYOR	DANA HALL TERRANE 10801 MAIN STREET, SUITE 102 BELLEVUE, WA 98004 425.458.4488 dana@terranew.net

SHEET INDEX

SHEET NUMBER	SHEET NAME
GENERAL	
G000	COVERSHEET
G001	ENERGY CODE, LEAKAGE TESTING, & VENT CALCS
SURVEY	
S-1	TOPOGRAPHIC & BOUNDARY SURVEY
S-2	TOPOGRAPHIC & BOUNDARY SURVEY
CIVIL	
C100	TESC PLAN
C110	TESC DETAILS + NOTES
C200	TREE PLAN
C210	TREE DETAILS + NOTES
C300	CIVIL PLAN
C310	CIVIL DETAILS + NOTES
SHORING	
AS3.01	ARCHITECTURAL SHORING SITE PLAN
SH1.1	GENERAL SHORING NOTES
SH2.1	SHORING PLAN
SH3.1	SHORING DETAILS
ARCHITECTURAL DEMOLITION	
AD1.01	DEMOLITION SITE PLAN
AD1.03	DEMOLITION LOT COVERAGE SITE PLAN
ARCHITECTURAL	
A1.01	PROPOSED SITE PLAN
A1.02	SETBACK SITE PLAN
A1.03	PROPOSED LOT COVERAGE SITE PLAN
A1.04	SHORELINE RESTORATION & TREE RETENTION / REPLACEMENT PLAN
A1.05	ENLARGED SHORELINE PLANTING PLAN
A2.11	LOWER FLOOR PLAN
A2.12	MAIN FLOOR PLAN
A2.13	ROOF PLAN
A3.01	EXTERIOR ELEVATIONS (N)
A3.02	EXTERIOR ELEVATIONS (E&S)
A3.03	EXTERIOR ELEVATIONS (W)
A4.01	BUILDING SECTIONS
A4.02	BUILDING SECTIONS
A4.03	BUILDING SECTIONS
A4.11	WALL SECTIONS
A4.12	WALL SECTIONS
A4.13	WALL SECTIONS
A4.14	WALL SECTIONS
A6.01	DOOR / WINDOW SCHEDULES, LEGENDS, & NOTES
A7.01	VERTICAL ASSEMBLY DETAILS
A7.02	HORIZONTAL ASSEMBLY DETAILS
STRUCTURAL	
S1.1	GENERAL STRUCTURAL NOTES
S1.2	LOAD MAPS
S2.1	LOWER FLOOR / FOUNDATION PLAN
S2.2	MAIN FLOOR FRAMING PLAN
S2.3	ROOF FRAMING PLAN
S3.1	TYPICAL CONCRETE DETAILS
S3.2	FOUNDATION DETAILS
S4.1	TYPICAL WOOD FRAMING DETAILS
S4.2	WOOD FRAMING DETAILS
S5.1	TYPICAL STEEL DETAILS
S5.2	STEEL DETAILS
S5.3	STEEL BRACED FRAME ELEVATIONS
S5.4	STEEL BRACED FRAME DETAILS
S5.5	STEEL DETAILS
S5.6	STEEL DETAILS
S5.7	STEEL DETAILS
S6.1	TYPICAL LIGHT GAUGE DETAILS
S6.2	LIGHT GAUGE DETAILS

ABBREVIATIONS

ABV	ABOVE
AFF	ABOVE FINISH FLOOR
ADOL	ADDITIONAL
ADJ	ADJUSTABLE
ALT	ALTERNATE
ARCH	ARCHITECT, ARCHITECTURAL
BLW	BELOW
BSMT	BASEMENT
BTW	BETWEEN
BUD	BUILDING
CAB	CABINET
CALC	CALCULATION
CL	CENTERLINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
DEMO	DEMOLISH
DIA	DIAMETER
DIM	DIMENSION
DW	DISHWASHER
DBL	DOUBLE
EA	EACH
ELEC	ELECTRIC, ELECTRICIAN
ELEV	ELEVATION
ENGR	ENGINEER
EQUIV	EQUIVALENT
EXIST OR (E)	EXISTING
EXT	EXTERIOR
FF	FINISH FLOOR
GALV	GALVANIZED
GWB	GYPSUM WALL BOARD
HDR	HEADER
HT	HEIGHT
HORIZ	HORIZONTAL
INSUL	INSULATION
INT	INTERIOR
LOC	LOCATE, LOCATION
MAX	MAXIMUM
MFR	MANUFACTURER
MECH	MECHANICAL
MTL	METAL
MIN	MINIMUM
NFS	NOT TO SCALE
O.C.	ON CENTER
PLY	PLYWOOD
PRELIM	PRELIMINARY
PT	PRESSURE-TREATED
PL	PROPERTY LINE
REFR	REFRIGERATOR
REINFC	REINFORCE, REINFORCING
REDD	REQUIRED
SCHED	SCHEDULE
SW	SHEARWALL
SIM	SIMILAR
SF	SQUARE FOOT
SPECS	SPECIFICATIONS
SSTL	STAINLESS STEEL
STL	STEEL
STRUCT	STRUCTURE, STRUCTURAL
TEMP	TEMPORARY
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
WF	WATERPROOF, WEATHERPROOF
WP	WINDOW
WIF	WITH
WID	WITHOUT
WID	WOOD

GRAPHIC KEY

LEGAL DESCRIPTION

(PER QUIT CLAIM DEED AFN 20191009001615)

BEGINNING AT A POINT ON A LINE 400 FEET SOUTH OF AND PARALLEL WITH THE NORTH LINE OF GOVERNMENT LOT 2, SECTION 31, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON, SAID POINT BEING SOUTH 89°50'16" EAST 698.08 FEET FROM THE WEST LINE OF SAID GOVERNMENT LOT 2; THENCE SOUTH 13°09'00" WEST 190.08 FEET TO A POINT OF CURVE; THENCE ALONG A CURVE TO THE RIGHT OF 220 FOOT RADIUS 127.95 FEET TO A POINT OF TANGENCY; THENCE SOUTH 46°28'20" WEST 138.31 FEET TO A POINT OF CURVE; THENCE ALONG A CURVE TO THE RIGHT HAVING A UNIFORM RADIUS OF 65.74 FEET THROUGH A CENTRAL ANGLE OF 49°31'04" A DISTANCE OF 56.81 FEET TO A POINT ON THE SOUTHEASTERLY MARGIN OF THE B.B. HUFFMAN COUNTY ROAD; THENCE ALONG SAID MARGIN SOUTH 38°00'53" WEST 50.55 FEET TO THE TRUE POINT OF BEGINNING; THENCE CONTINUING ALONG SAID MARGIN, SOUTH 38°00'53" WEST 50.55 FEET; THENCE SOUTH 43°31'40" EAST 193.81 FEET TO THE MEANDER LINE OF LAKE WASHINGTON; THENCE NORTH 46°28'20.4" EAST ALONG SAID MEANDER LINE, 50 FEET; THENCE NORTH 43°31'40" WEST 10.89 FEET TO THE U.S. COAST AND GEODETIC SURVEY MONUMENT; THENCE CONTINUING NORTH 43°31'40" WEST 190.35 FEET TO THE TRUE POINT OF BEGINNING;

(BEING KNOWN AS LOT 26 OF THE UNRECORDED PLAT OF BENOETHO BEACH); AND

BEGINNING AT A POINT ON A LINE 400 FEET SOUTH OF AND PARALLEL WITH THE NORTH LINE OF GOVERNMENT LOT 2, SECTION 31, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON, SAID POINT BEING SOUTH 89°50'16" EAST 698.08 FEET FROM THE WEST LINE OF SAID GOVERNMENT LOT 2; THENCE SOUTH 13°09'00" WEST 190.08 FEET TO A POINT OF CURVE; THENCE ALONG A CURVE TO THE RIGHT OF 220 FOOT RADIUS 127.95 FEET TO A POINT OF TANGENCY; THENCE SOUTH 46°28'20" WEST 138.31 FEET TO A POINT OF CURVE; THENCE ALONG A CURVE TO THE RIGHT HAVING A UNIFORM RADIUS OF 65.74 FEET THROUGH A CENTRAL ANGLE OF 49°31'04" A DISTANCE OF 56.81 FEET TO A POINT ON THE SOUTHEASTERLY MARGIN OF THE B.B. HUFFMAN COUNTY ROAD; THENCE ALONG SAID MARGIN SOUTH 38°00'53" WEST 101.10 FEET TO THE TRUE POINT OF BEGINNING; THENCE CONTINUING ALONG SAID COUNTY ROAD SOUTH 38°00'53" WEST 45 FEET; THENCE SOUTH 40°19'13" EAST 187.48 FEET TO THE MEANDER LINE OF LAKE WASHINGTON; THENCE NORTH 46°28'20.4" EAST ALONG SAID MEANDER LINE LINE 55 FEET; THENCE NORTH 43°31'40" WEST 193.81 FEET TO THE TRUE POINT OF BEGINNING;

(BEING KNOWN AS LOT 27 OF THE UNRECORDED PLAT OF BENOETHO BEACH); TOGETHER WITH SHORELANDS OF THE SECOND CLASS ADJOINING SAID TRACTS 26 AND 27;

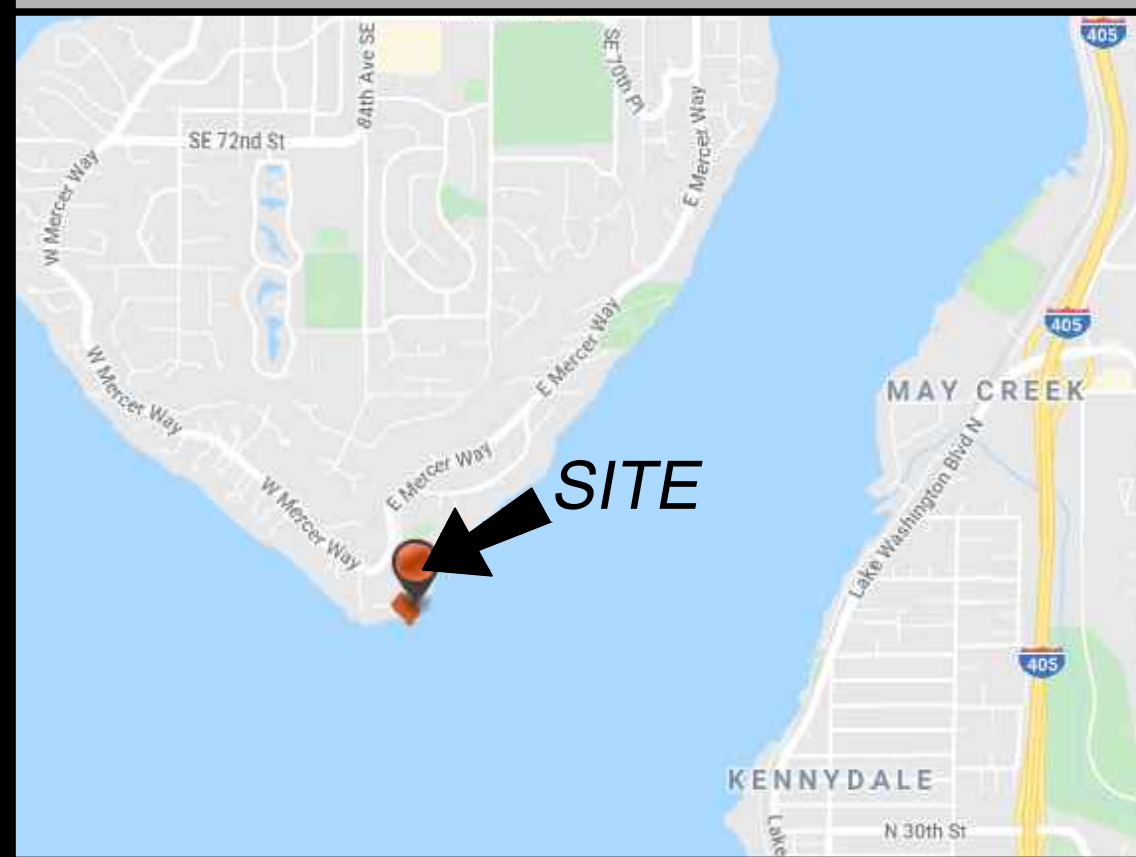
SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

SURVEYOR'S NOTES

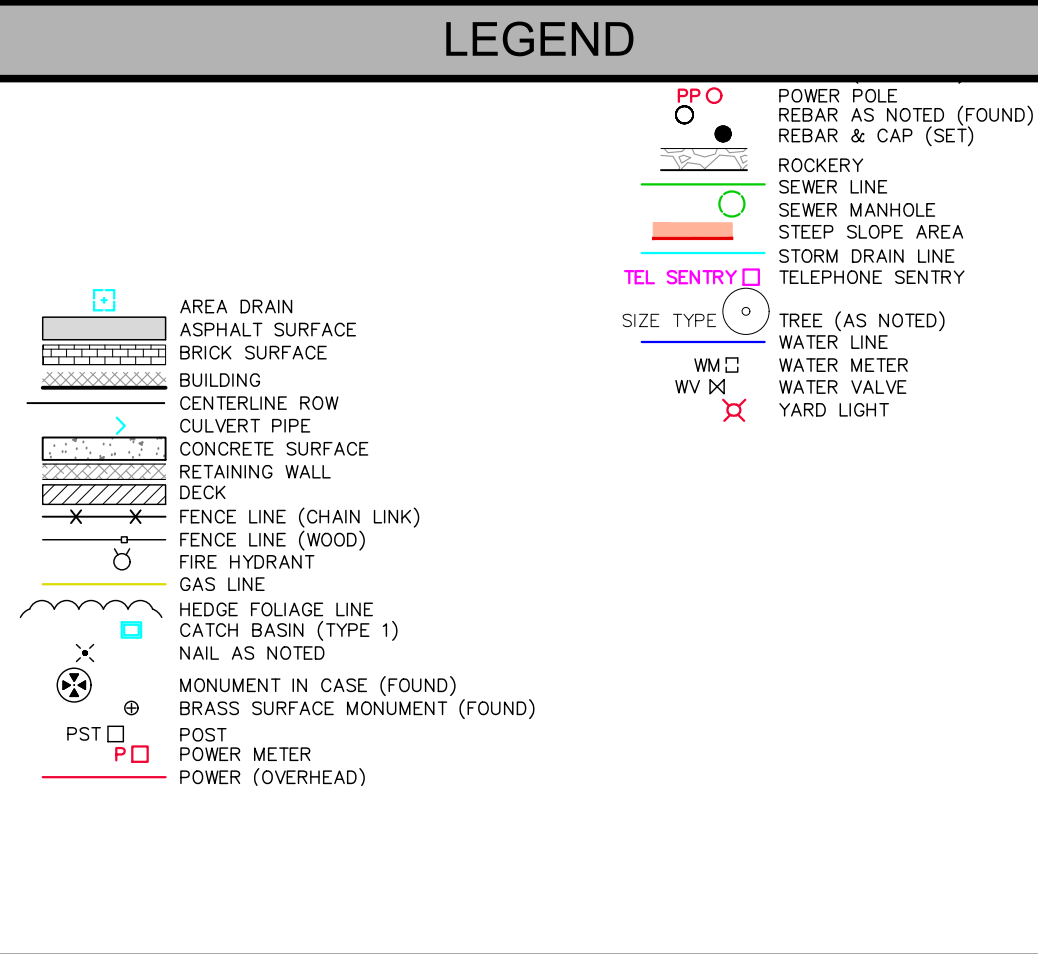
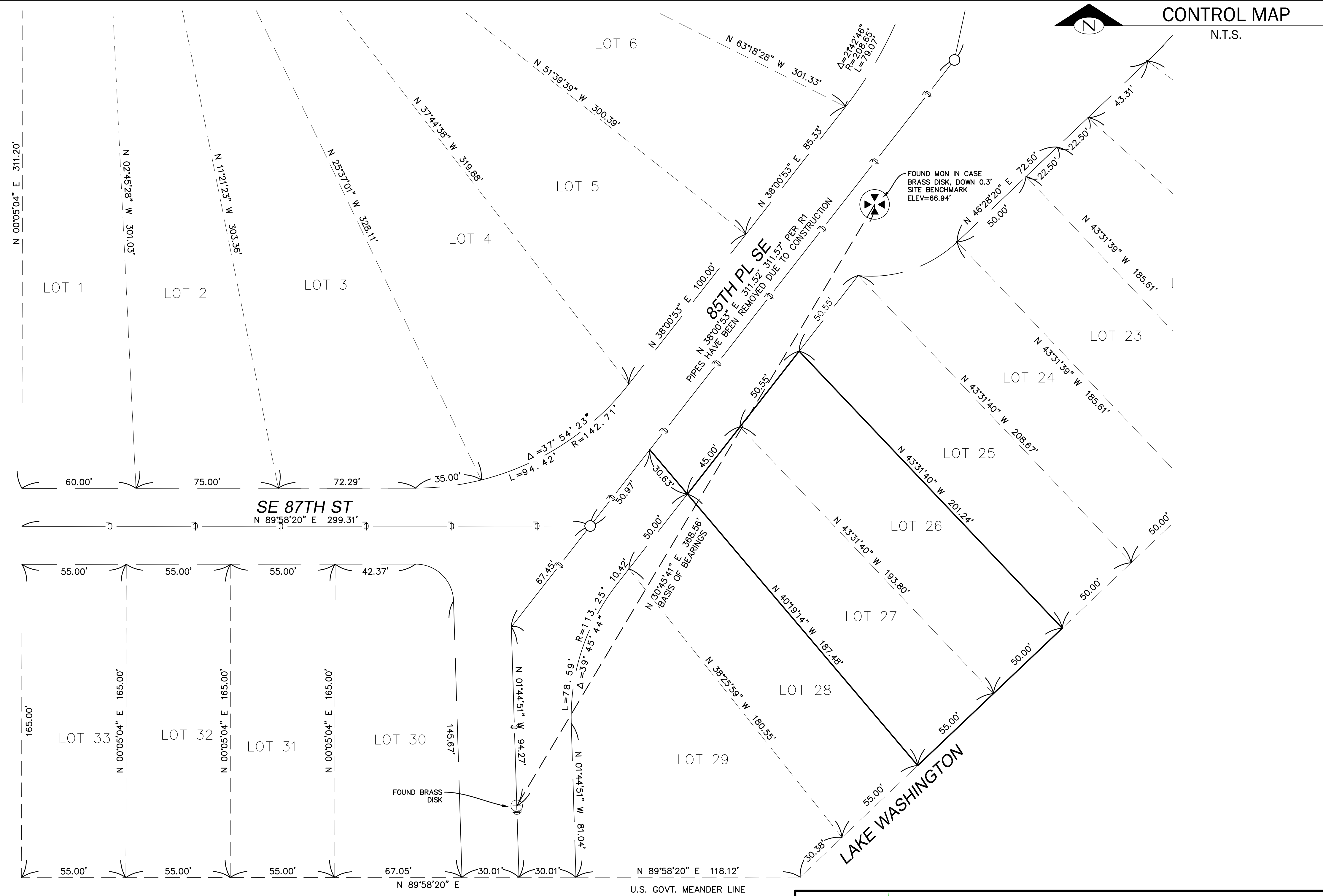
1. THE TOPOGRAPHIC SURVEY SHOWN HEREON WAS PERFORMED IN NOVEMBER OF 2019. THE FIELD DATA WAS COLLECTED AND RECORDED ON MAGNETIC MEDIA THROUGH AN ELECTRONIC THEODOLITE. THE DATA FILE IS ARCHIVED ON DISC OR CD. WRITTEN FIELD NOTES MAY NOT EXIST. CONTOURS ARE SHOWN FOR CONVENIENCE ONLY. DESIGN SHOULD RELY 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. 0736100155
5. SUBJECT PROPERTY AREA PER THIS SURVEY IS 19,337 S.F. (0.44 ACRES). UPLAND AREA ABOVE LINE OF ORDINARY HIGH WATER IS 18,231 S.F. (0.42 ACRES)
6. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF A TITLE REPORT. EASEMENTS AND OTHER ENCUMBRANCES MAY EXIST THAT ARE NOT SHOWN HEREON.
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.

VICINITY MAP

N.T.S.



TOPOGRAPHIC & BOUNDARY SURVEY



BASIS OF BEARINGS

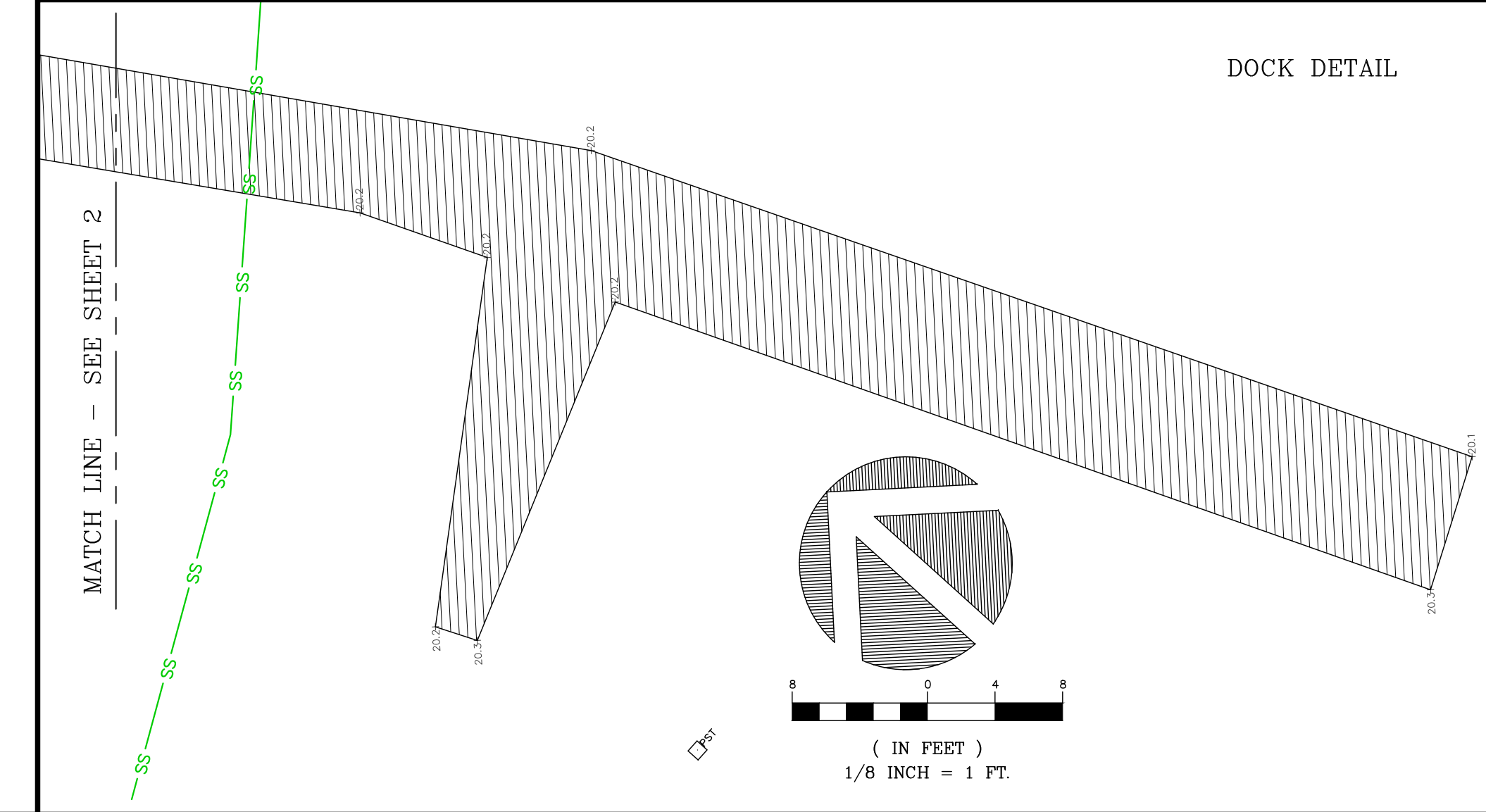
BEARINGS PER UNRECORDED PLAT OF BENOETHO BEACH. A BEARING OF N 30°45'41" E WAS CALCULATED BETWEEN EXISTING SURVEY MONUMENTS SHOWN HEREON; THIS SURVEY IS BASED UPON EXISTING SURVEY POINTS FOUND BY JONES BASSI & ASSOCIATES, M.W. MARSHALL LAND SURVEYING, GEODIMENSIONS LAND SURVEYING AND TERRANE LAND SURVEYING, INC., ALONG WITH THE ASSOCIATED CALC AND FIELD NOTES OF H.W. RUTHERFORD (PLATTER). THE MATHEMATICAL SOLUTION FOR THIS BOUNDARY HAS BEEN TIED TO THE EXISTING MONUMENTS WITHIN THIS PLAT. SAID MONUMENTS ARE NOT ORIGINAL PLAT MONUMENTS AND ARE ARBITRARY TO THIS BOUNDARY, THEY ONLY SERVE AS A MEANS OF RETRACEMENT.

REFERENCES

R1. RECORD OF SURVEY, VOL. 74, PG. 82, RECORDS OF KING COUNTY, WASHINGTON.

VERTICAL DATUM

NAVD88 PER GPS OBSERVATIONS



measure success

TOPOGRAPHIC & BOUNDARY SURVEY
SW 1/4 OF NW 1/4 SEC 31, TWP. 24N., RGE 05E., W.M.
PARCEL NO. 0736100155

XIAOXIA WU - WU PROPERTY
8480 85TH AVE SE
MERCER ISLAND, WA 98040

Terrane
10801 Main Street, Suite 102, Bellevue, WA 98004
phone 425.458.4488 support@terrane.net
www.terrane.net

JOB NUMBER: 191888
DATE: 11/12/19
DRAFTED BY: TGC
CHECKED BY: EJG/TMM
SCALE: NTS

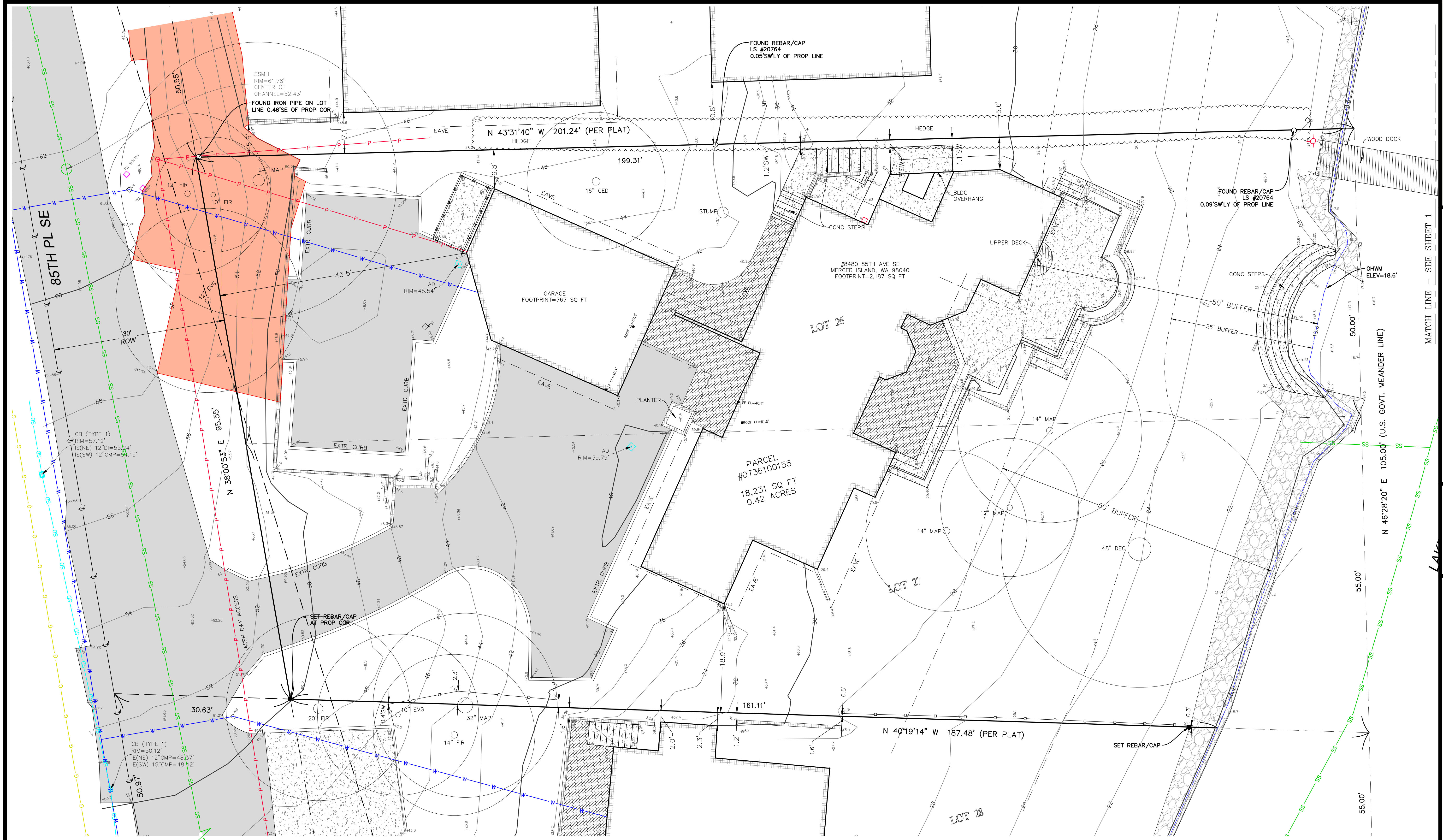
REVISION HISTORY

DATE	REVISION
12/2/19	PER COMMENTS
9/24/20	IMPERVIOUS SURF.
2/19/21	PER COMMENTS

SHEET NUMBER
1 OF 2

TOPOGRAPHIC & BOUNDARY SURVEY

measure success

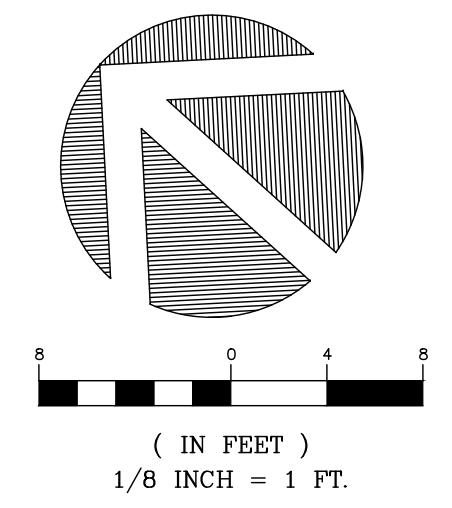


IMPERVIOUS SURFACES		
TYPE	COVERAGE S.F.	LOT COVERAGE
BUILDINGS	3,905	21.42%
CONCRETE, ASPHALT, & BRICK	4,122	22.61%
TOTALS	8,027	44.03%

SSMH
RIM=39.78'
TE (NE) 8"CONC=29.97'
TE (NW) 8"CONC=31.54'

LEGEND

	AREA DRAIN		POST METER
	ASPHALT SURFACE		POWER METER
	BRICK SURFACE		POWER (OVERHEAD)
	BUILDING		POWER POLE
	CENTERLINE ROW		REBAR AS NOTED (FOUND)
	CULVERT PIPE		REBAR & CAP (SET)
	CONCRETE SURFACE		ROCKERY
	RETAINING WALL		SEWER LINE
	DECK		SEWER MANHOLE
	FENCE LINE (CHAIN LINK)		STEEP SLOPE AREA
	FENCE LINE (WOOD)		STORM DRAIN LINE
	FIRE HYDRANT		TELEPHONE SENTRY
	GAS LINE		TREE (AS NOTED)
	HEDGE FOLIAGE LINE		WATER LINE
	CATCH BASIN (TYPE 1)		WATER METER
	NAIL AS NOTED		WATER VALVE
	MONUMENT IN CASE (FOUND)		YARD LIGHT
	BRASS SURFACE MONUMENT (FOUND)		



MATCH LINE - SEE SHEET 1

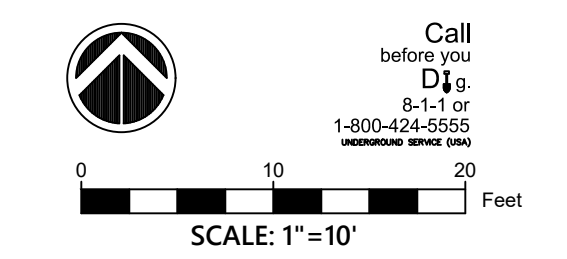
TOPOGRAPHIC & BOUNDARY SURVEY
SW 1/4 OF NW 1/4 SEC 31, TWP. 24N., RGE 05E., W.M.
PARCEL NO. 0736100155

XIAOXIA WU - WU PROPERTY
8480 85TH AVE SE
MERCER ISLAND, WA 98040



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10801 Main Street, Suite 102, Bellevue, WA 98004
phone 425.458.4488 support@terrane.net
www.terrane.net

JOB NUMBER:	191888
DATE:	11/12/19
DRAFTED BY:	TGC
CHECKED BY:	EJG/TMM
SCALE:	1/8" = 1'
REVISION HISTORY	
12/2/19	PER COMMENTS
9/24/20	IMPERVIOUS SURF.
2/19/21	PER COMMENTS
SHEET NUMBER	
2 OF 2	



ESC GENERAL NOTE

THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS...

CLEARING LIMIT NOTE

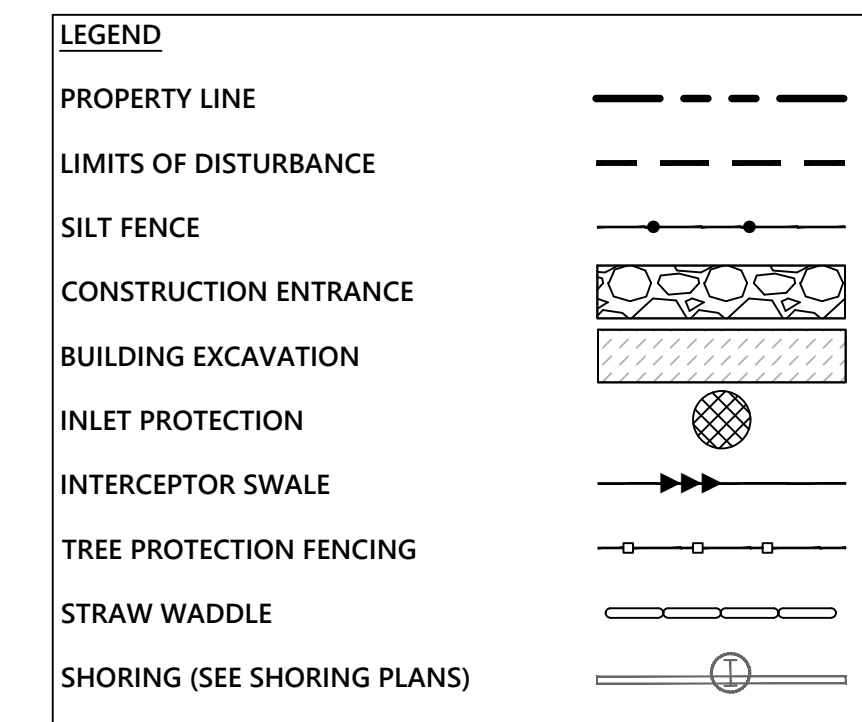
ALL SELECTIVE CLEARING, TRENCHING AND OTHER WORK WITHIN THE DRIPLINES OF SIGNIFICANT TREES SHALL BE BY LOW IMPACT/HAND METHODS...

TREE DRIPLINE NOTE

WORK WITHIN THE DRIPLINE OF TREES TO BE SAVED MUST BE UNDER THE DIRECTION OF A CERTIFIED ARBORIST (TYP.)...

EROSION CONTROL DETAILS

SEE SHEET C10



SOIL AMENDMENT NOTES

COMPOST AMENDED SOIL REQUIRED ON ALL LANDSCAPED AREAS AFTER CONSTRUCTION. SEE DETAIL ON SHEET C10

TREE REMOVAL NOTES

FOR ALL TREE REMOVAL, REFER TO PROJECT ARBORIST REPORT. ALL TREE REMOVALS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY.

EROSION CONTROL NOTES:

D.8.2 STANDARD ESC PLAN NOTES

- THE STANDARD ESC PLAN NOTES MUST BE INCLUDED ON ALL ESC PLANS. AT THE APPLICANT'S DISCRETION, NOTES THAT IN NO WAY APPLY TO THE PROJECT MAY BE OMITTED...

RECOMMENDED CONSTRUCTION SEQUENCE:

A DETAILED CONSTRUCTION SEQUENCE IS NEEDED TO ENSURE THAT EROSION AND SEDIMENT CONTROL MEASURES ARE APPLIED AT THE APPROPRIATE TIMES...

- 1. HOLD AN ONSITE PRE-CONSTRUCTION MEETING. 2. POST SIGN WITH NAME AND PHONE NUMBER OF ESC SUPERVISOR... 11. RELOCATE SURFACE WATER CONTROLS OR TESC MEASURES...

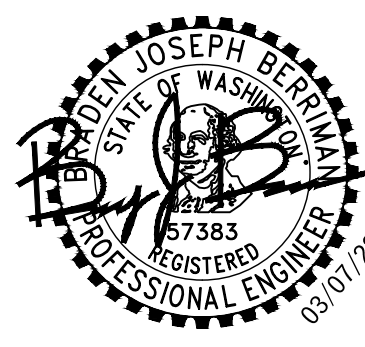
CITY NOTES:

- 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...



LATITUDE 48

LATITUDE 48, P.S. CONTACT: BRADY BERRIMAN PHONE NUMBER: 206.556.1615



8480 RESIDENCE 8480 85TH AVE SE MERCER ISLAND, WA 98040

CITY OF MERCER ISLAND PERMIT SUBMITTAL

DATE: 03/11/22 SHEET SIZE: E1 (30X42) REVISIONS: NO: DATE:

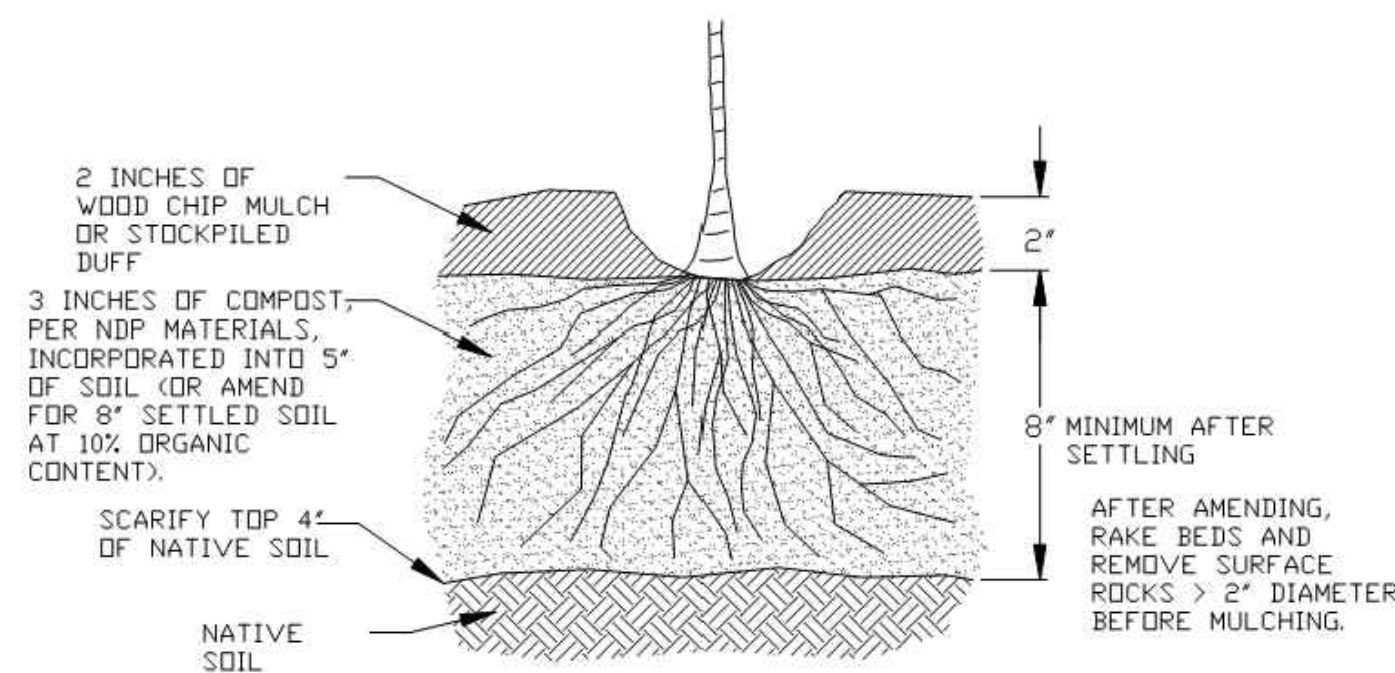
DRAWN BY: CFS CHECKED BY: BJB

TESC PLAN

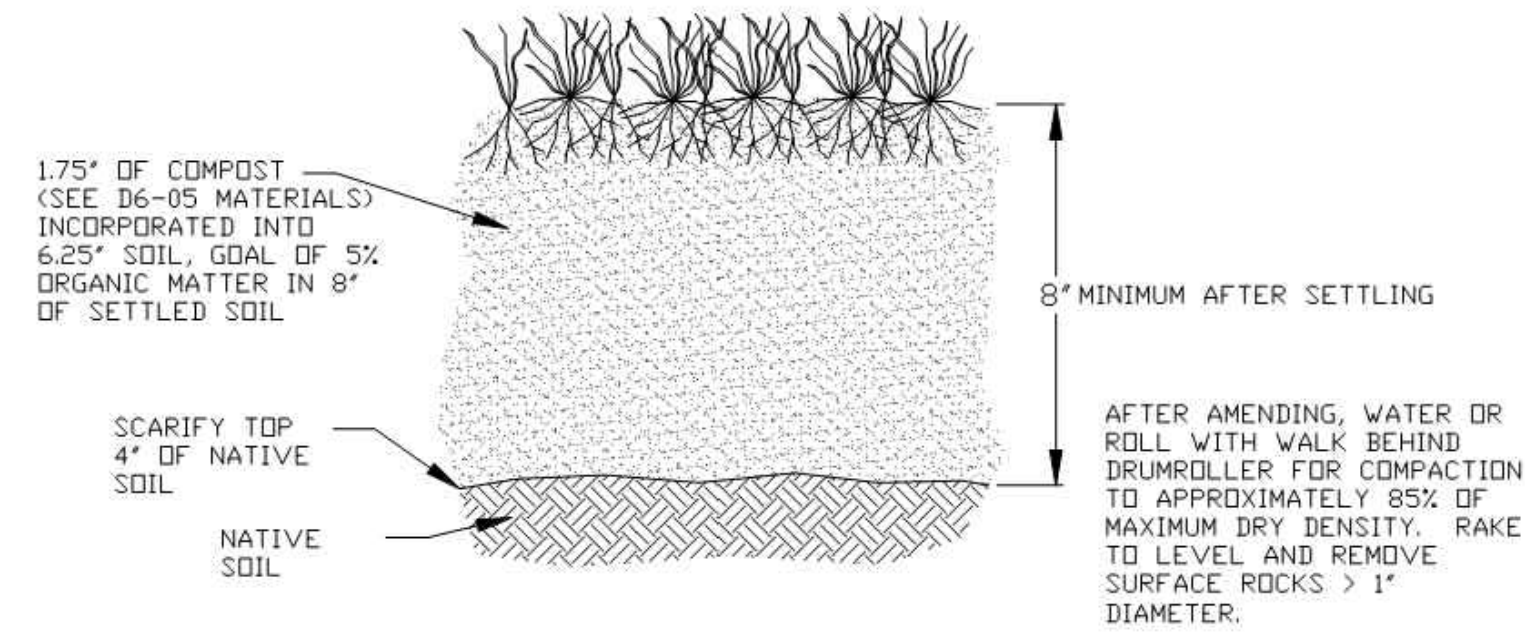
SCALE: AS NOTED

C100

AMENDMENT FOR LANDSCAPED AREAS



SOIL AMENDMENT FOR GRASS OR TURF AREAS



- NOTES:
1. AMEND SOILS PER DOE MANUAL, VOL. V, 5.3.1, BMP TS.13, (2012 OR CURRENT) OR WWW.SOILSFORMSALMONIDR.G
 2. DO NOT AMEND SOILS IN AREAS WITH UNDISTURBED SOIL AND NATIVE VEGETATION
 3. OPTIONAL ALTERNATIVE: STOCKPILE NATIVE TOPSOIL ON SITE, AMEND IF NEEDED, AND REPLACE BEFORE PLANTING
 4. OPTIONAL ALTERNATIVE: IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH TO MEET REQUIREMENTS.

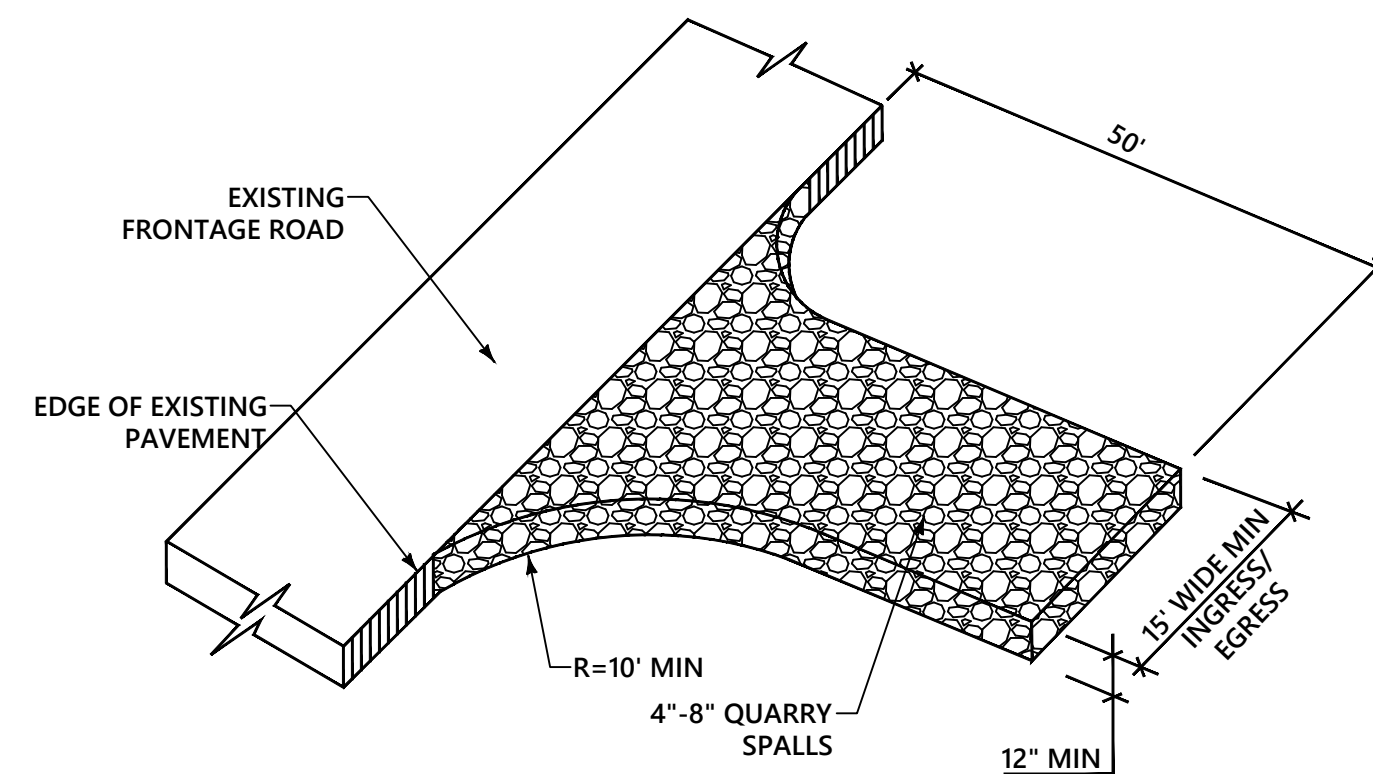
City of Bellevue
STORM AND SURFACE WATER UTILITY

TITLE: AMENDED SOILS

NO. 1001

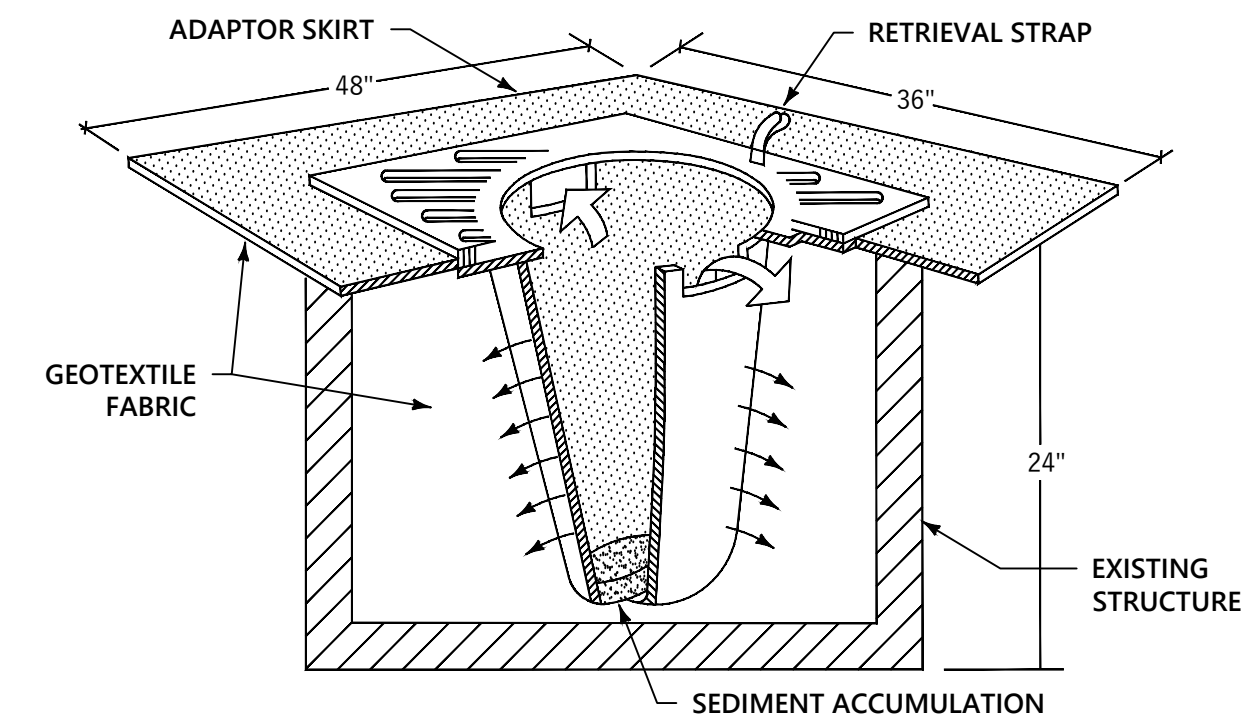
JANUARY 2021 NO SCALE

SOIL AMENDMENT 1
NTS



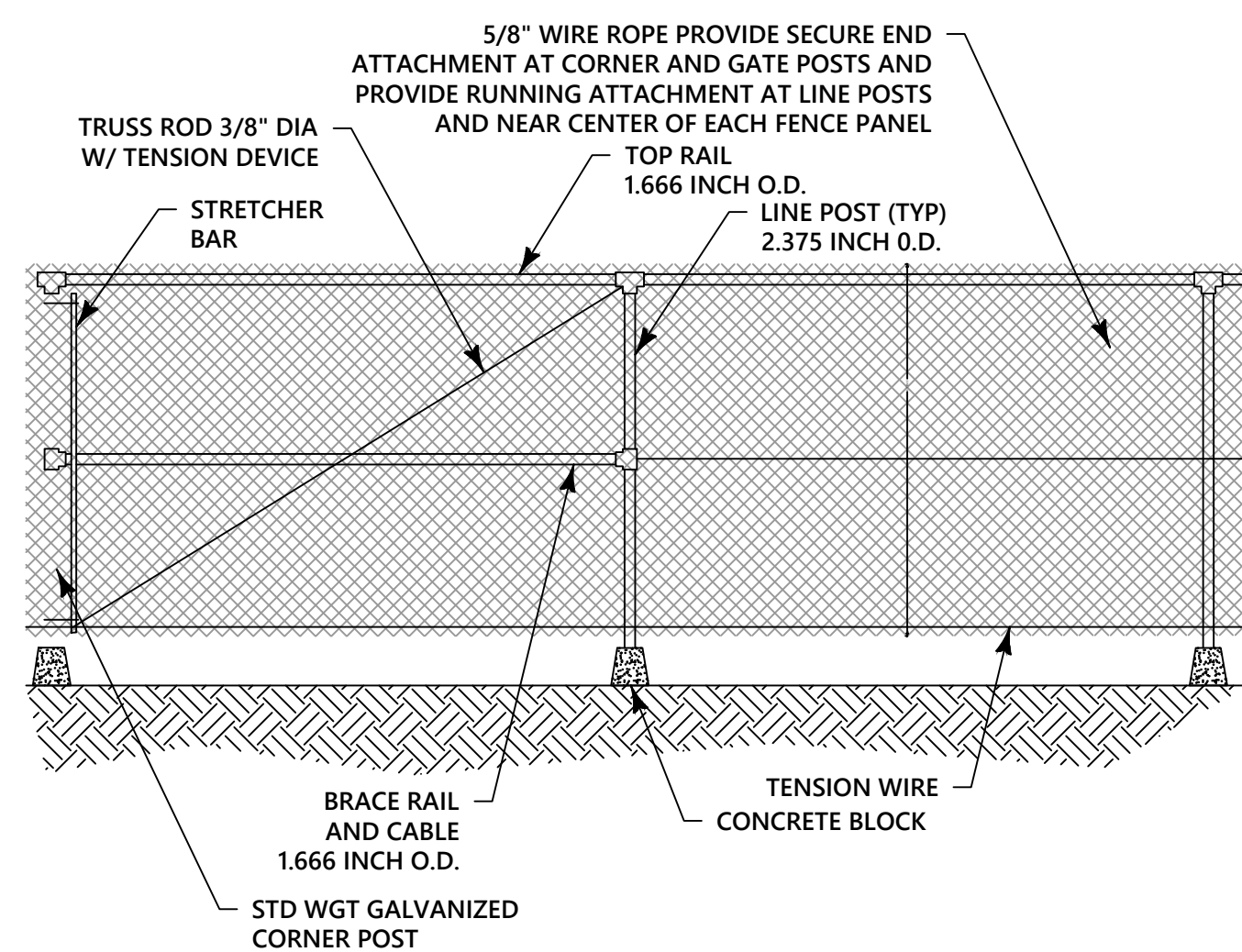
- NOTES:
1. MATERIAL SHALL BE QUARRY SPALLS PER WSDOT 2014 STANDARD SPECIFICATION 9-13.6 AND MAY BE TOP-DRESSED WITH 1"-3" ROCK.
 2. THE ROCK PAD SHALL BE AT LEAST 12 INCHES THICK AND 100 FEET LONG. WIDTH SHALL BE THE FULL WIDTH OF THE VEHICLE INGRESS AND EGRESS AREA.
 3. ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
 4. IF THE PAD DOES NOT ADEQUATELY REMOVE THE MUD FROM THE VEHICLE WHEELS, THE WHEELS SHALL BE HOSED OFF BEFORE THE VEHICLE ENTERS A PAVED STREET. THE WASHING SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK AND WASH WATER SHALL DRAIN TO A SEDIMENT RETENTION FACILITY OR THROUGH A SILT FENCE.
 5. GEOTEXTILE SHALL MEET THE FOLLOWING: GRAB TENSILE STRENGTH 200 PSI MIN, GRAB TENSILE ELONGATION 30% MAX, MULLEN BURST STRENGTH 400 PSI MIN, AOS 2-45(U.S. STANDARD SIEVE)

CONSTRUCTION ENTRANCE 2
NTS



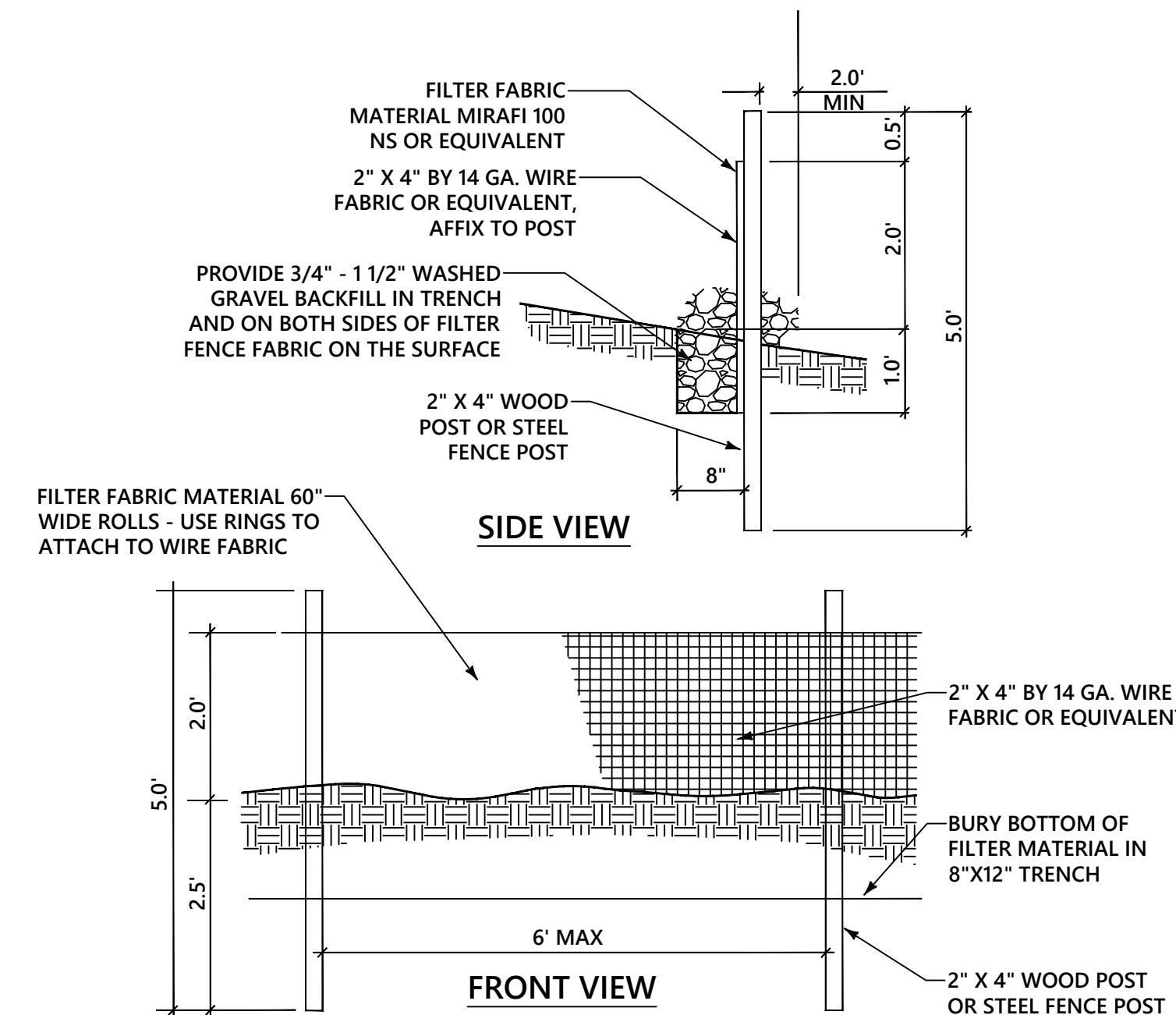
- NOTES:
1. FILTERS SHALL BE INSPECTED AFTER EACH STORM EVENT AND CLEANED OR REPLACED WHEN 1/3 FULL
 2. INSTALL INLET PROTECTION IN ALL NEW STORM STRUCTURES THAT WILL COLLECT STORMWATER AS THEY ARE INSTALLED.

INLET PROTECTION 3
NTS



NOTE:
THE EXTENT OF PROTECTION FENCING TO BE REVIEWED AND DETERMINED IN FIELD WITH CONTRACTOR AND CITY INSPECTORS AS REQUIRED TO PROTECT THE NEIGHBORS, ENVIRONMENT AND EXISTING ELEMENTS ON SITE.

TEMPORARY CONSTRUCTION FENCING 4
NTS



NOTE:
THE EXTENT OF PROTECTION FENCING TO BE REVIEWED AND DETERMINED IN FIELD WITH CONTRACTOR AND CITY INSPECTORS AS REQUIRED TO PROTECT THE NEIGHBORS, ENVIRONMENT AND EXISTING ELEMENTS ON SITE.

- NOTES:
1. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM SIX-INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST.
 2. THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS (WHERE FEASIBLE), THE FENCE POSTS SHALL BE SPACED A MAXIMUM OF SIX FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30").
 3. A TRENCH SHALL BE EXCAVATED, ROUGHLY EIGHT INCHES WIDE AND TWELVE INCHES DEEP, UPSLOPE AND ADJACENT TO THE WOOD POST TO ALLOW THE FILTER FABRIC TO BE BURIED.
 4. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST ONE INCH LONG, TIE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF FOUR INCHES AND SHALL NOT EXTEND MORE THAN THIRTY SIX INCHES ABOVE THE ORIGINAL GROUND SURFACE.
 5. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND TWENTY INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN THIRTY SIX INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
 6. WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF STANDARD NOTE (5) APPLYING.
 7. THE TRENCH SHALL BE BACKFILL WITH 3/4 INCH MINIMUM DIAMETER WASHED GRAVEL.
 8. FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
 9. FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
 10. CONTRIBUTING LENGTH TO FENCE SHALL NOT BE MORE THAN 100 FEET.
 11. DO NOT INSTALL BELOW AN OUTLET PIPE OR WEIR
 12. DO NOT DRIVE OVER OR FILL OVER FILTER FABRIC FENCE

SILT FENCE 6
NTS



TREE PROTECTION AREA (TPZ)

KEEP OUT!

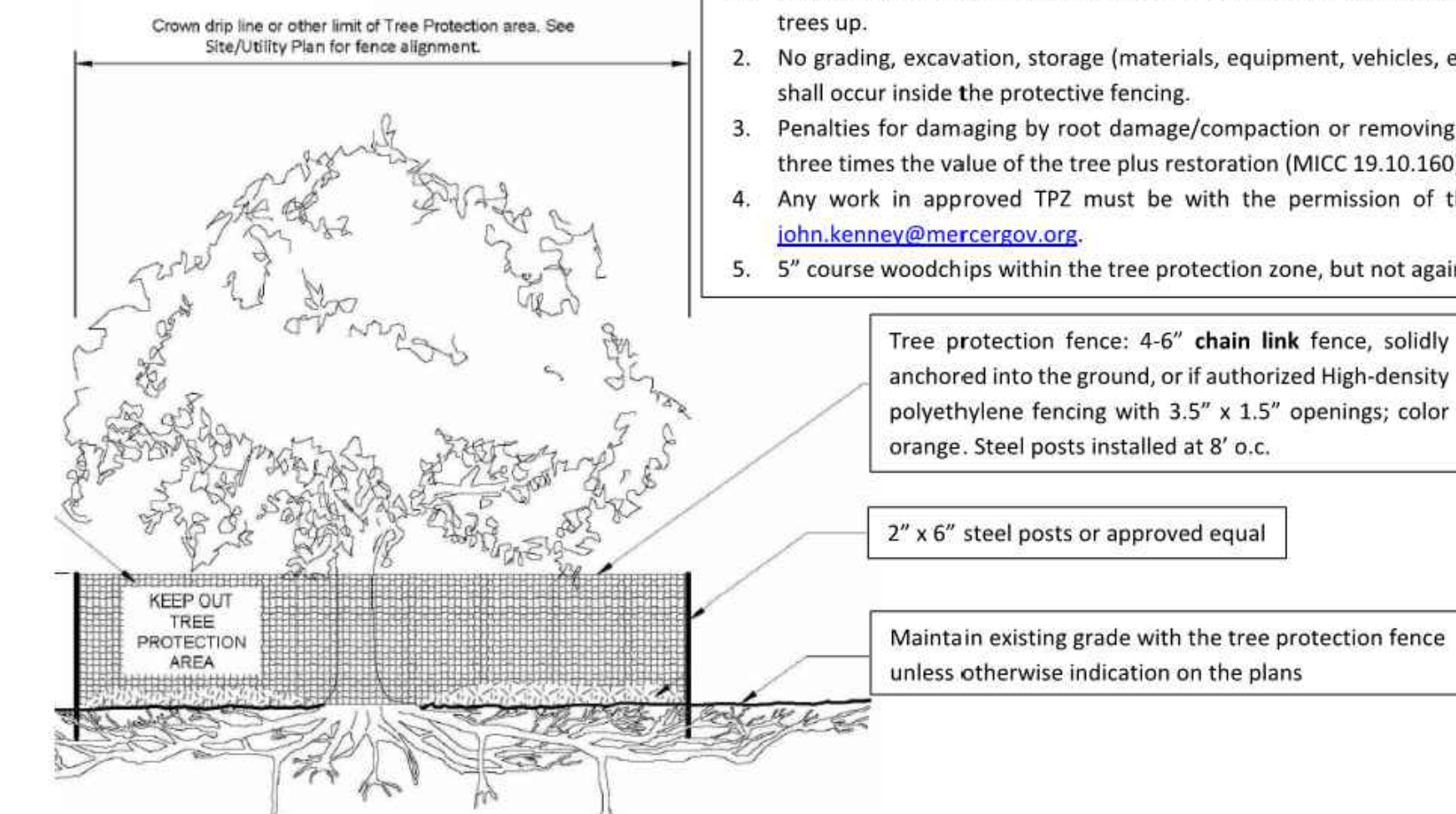
DO NOT REMOVE OR ADJUST THE APPROVED LOCATION OF THIS TREE PROTECTION AREA

Trees enclosed by this fence are protected and are subject to the conditions of the tree permit. Violation of tree conditions may lead to:

1. Correction Notices or Stop Work Orders until compliance is achieved
2. RE Inspection Fees/financial penalties
3. Arborist reports recommending mitigation

Notes

1. No pruning shall be performed unless under the direction of the Project Arborist. Including limbing trees up.
2. No grading, excavation, storage (materials, equipment, vehicles, etc.), or other unpermitted activity shall occur inside the protective fencing.
3. Penalties for damaging by root damage/compaction or removing a saved tree may be a fine up to three times the value of the tree plus restoration (MICC 19.10.160).
4. Any work in approved TPZ must be with the permission of the City Arborist (206) 275-7713, john.kenney@mercergov.org.
5. 5" course woodchips within the tree protection zone, but not against the tree trunk.



Any Work in the protected area must be with the permission of the City Arborist john.kenney@mercergov.org

NOTE:
THE EXTENT OF PROTECTION FENCING TO BE REVIEWED AND DETERMINED IN FIELD WITH CONTRACTOR AND CITY INSPECTORS AS REQUIRED TO PROTECT THE NEIGHBORS, ENVIRONMENT AND EXISTING ELEMENTS ON SITE.

NOT USED
NTS 1

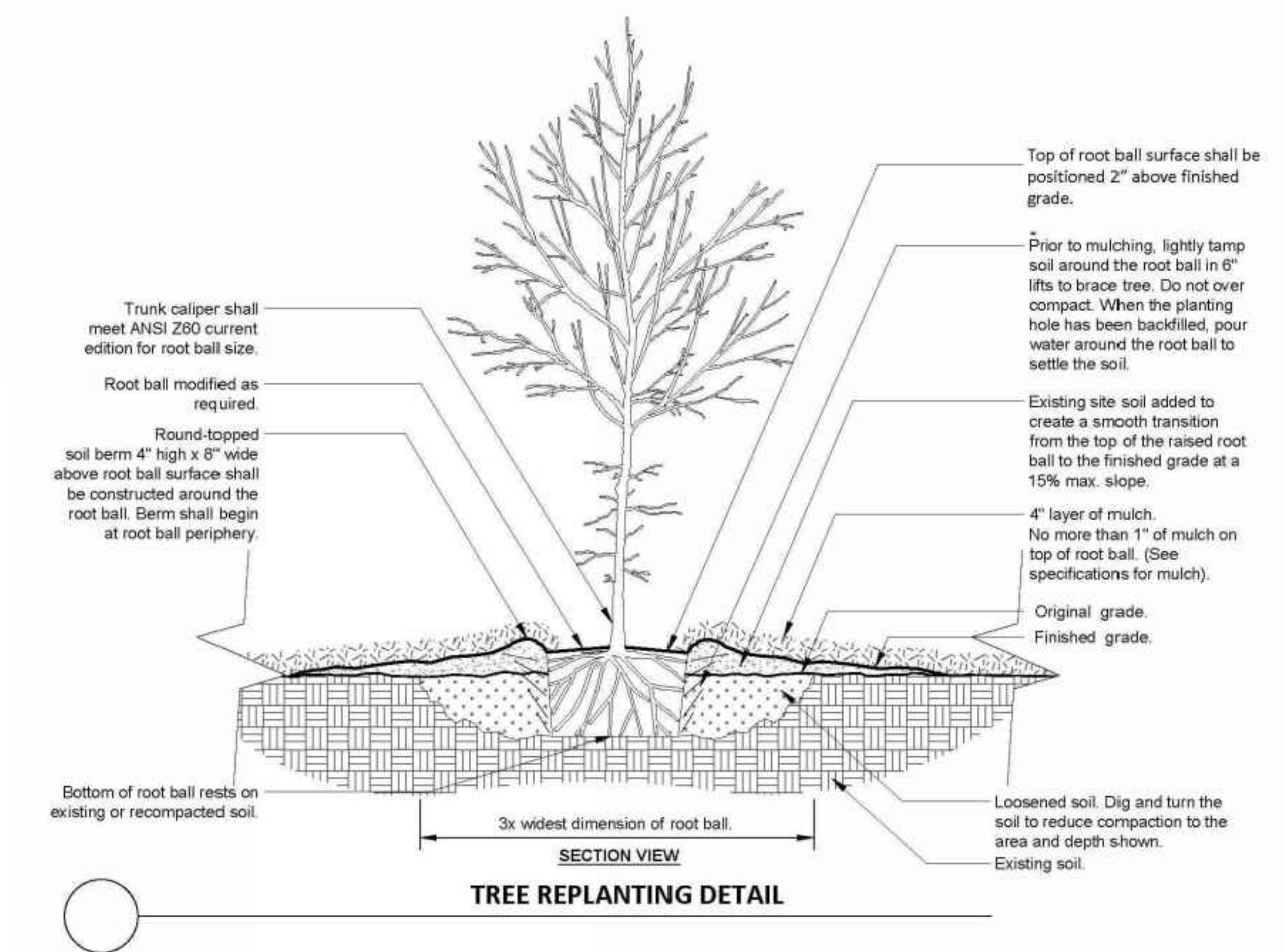
NOT USED
NTS 2

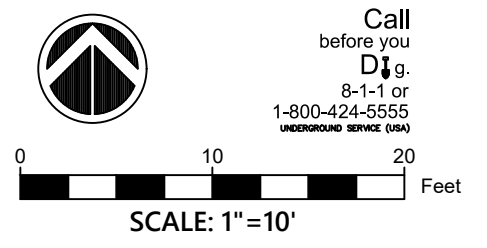
MERCER ISLAND TREE PROTECTION
NTS 3

NOT USED
NTS 4

NOT USED
NTS 5

MERCER ISLAND TREE REPLANTING DETAIL
NTS 6





LEGEND

PROPERTY LINE	---
BUILDING OUTLINE	▬▬▬▬
CONCRETE PAVEMENT	▨▨▨▨
ASPHALT PAVEMENT	▧▧▧▧
DECK, SEE ARCH'L PLAN	▩▩▩▩
RETAINING WALL	▬▬▬▬
STORM PIPE	—SD—
SEWER PIPE	—SS—
WATER PIPE	—W—

STORM DRAINAGE NOTES: SEE SHEET C310

UTILITY NOTES: SEE SHEET C310

FOR ALL WORK WITHIN TREE DRIPLINES, REFER TO SITE ARBORIST REPORT FOR RECOMMENDATIONS AND NECESSARY TREE PROTECTION MEASURES

VERTICAL DATUM: NAVD88 PER GPS OBSERVATIONS

REFERENCES: R1 - CITY OF MERCER ISLAND SP 78-3-009, APN: 7903280701, RECORDS OF KING COUNTY, WASHINGTON.

(PER QUIT CLAIM DEED AFN 20191009001615)

BEGINNING AT A POINT ON A LINE 400 FEET SOUTH OF AND PARALLEL WITH THE NORTH LINE OF GOVERNMENT LOT 2, SECTION 31, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON, SAID POINT BEING SOUTH 89°50'16" EAST 698.08 FEET FROM THE WEST LINE OF SAID GOVERNMENT LOT 2;

THENCE SOUTH 13°09'00" WEST 190.08 FEET TO A POINT OF CURVE;

THENCE ALONG A CURVE TO THE RIGHT OF 220 FOOT RADIUS 127.95 FEET TO A POINT OF TANGENCY;

THENCE SOUTH 46°28'20" WEST 138.31 FEET TO A POINT OF CURVE;

THENCE ALONG A CURVE TO THE RIGHT HAVING A UNIFORM RADIUS OF 65.74 FEET THROUGH A CENTRAL ANGLE OF 49°31'04" A DISTANCE OF 56.81 FEET TO A POINT ON THE SOUTHEASTERLY MARGIN OF THE B.B. HUFFMAN COUNTY ROAD;

THENCE ALONG SAID MARGIN SOUTH 38°00'53" WEST 50.55 FEET TO THE TRUE POINT OF BEGINNING;

THENCE CONTINUING ALONG SAID MARGIN, SOUTH 38°00'53" WEST 50.55 FEET;

THENCE SOUTH 43°31'40" EAST 193.81 FEET TO THE MEANDER LINE OF LAKE WASHINGTON;

THENCE NORTH 46°28'20.4" EAST ALONG SAID MEANDER LINE, 50 FEET;

THENCE NORTH 43°31'40" WEST 10.89 FEET TO THE U.S. COAST AND GEODETIC SURVEY MONUMENT;

THENCE CONTINUING NORTH 43°31'40" WEST 190.35 FEET TO THE TRUE POINT OF BEGINNING;

(BEING KNOWN AS LOT 26 OF THE UNRECORDED PLAT OF BENO THO BEACH);

AND BEGINNING AT A POINT ON A LINE 400 FEET SOUTH OF AND PARALLEL WITH THE NORTH LINE OF GOVERNMENT LOT 2, SECTION 31, TOWNSHIP 24 NORTH, RANGE 5 EAST, W.M., IN KING COUNTY, WASHINGTON, SAID POINT BEING SOUTH 89°50'16" EAST 698.08 FEET FROM THE WEST LINE OF SAID GOVERNMENT LOT 2;

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THENCE ALONG SAID MARGIN SOUTH 38°00'53" WEST 101.10 FEET TO THE TRUE POINT OF BEGINNING;

THENCE CONTINUING ALONG SAID MARGIN OF SAID COUNTY ROAD SOUTH 38°00'53" WEST 45 FEET;

THENCE SOUTH 40°19'13" EAST 187.48 FEET TO THE MEANDER LINE OF LAKE WASHINGTON;

THENCE NORTH 43°31'40" WEST 193.81 FEET TO THE TRUE POINT OF BEGINNING;

(BEING KNOWN AS LOT 27 OF THE UNRECORDED PLAT OF BENO THO BEACH);

TOGETHER WITH SHORELANDS OF THE SECOND CLASS ADJOINING SAID TRACTS 26 AND 27;

SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

ENSURE ALL ROOF DOWNSPOUTS INCLUDE AN EMERGENCY OVERFLOW WITH SLASH BLOCKS.

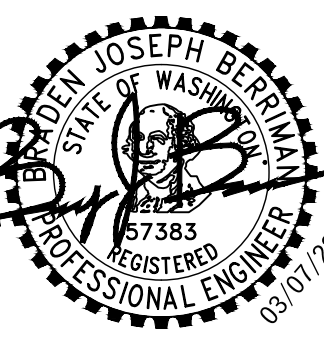
BASIS OF BEARINGS: N 30°45'41" E WAS CALCULATED BETWEEN EXISTING SURVEY MONUMENTS SHOWN HEREON; THIS SURVEY IS BASED UPON EXISTING SURVEY POINTS FOUND BY JONES BASSI & ASSOCIATES, M.W., MARSHALL LAND SURVEYING, GLODDIMENSION LAND SURVEYING AND TERRANE LAND SURVEYING INC. ALONG WITH THE ASSOCIATED CALC AND FIELD NOTES OF H.W. RUTHERFORD (PLATTER), THE MATHEMATICAL SOLUTION FOR THIS BOUNDARY HAS BEEN TIED TO THE EXISTING MONUMENTS WITHIN THIS PLAT. SAID MONUMENTS ARE NOT ORIGINAL PLAT MONUMENTS AND ARE ARBITRARY TO THIS BOUNDARY, THEY ONLY SERVE AS A MEANS OF RETRACEMENT.

PARCEL NO. 0736100155

PROPERTY AREA: 19,337 SF (0.44 ACRES)

LATITUDE 48

LATITUDE 48, P.S. CONTACT: BRADY BERRIMAN PHONE NUMBER: 206.556.1615



8480 RESIDENCE 8480 85TH AVE SE MERCER ISLAND, WA 98040

CITY OF MERCER ISLAND PERMIT SUBMITTAL

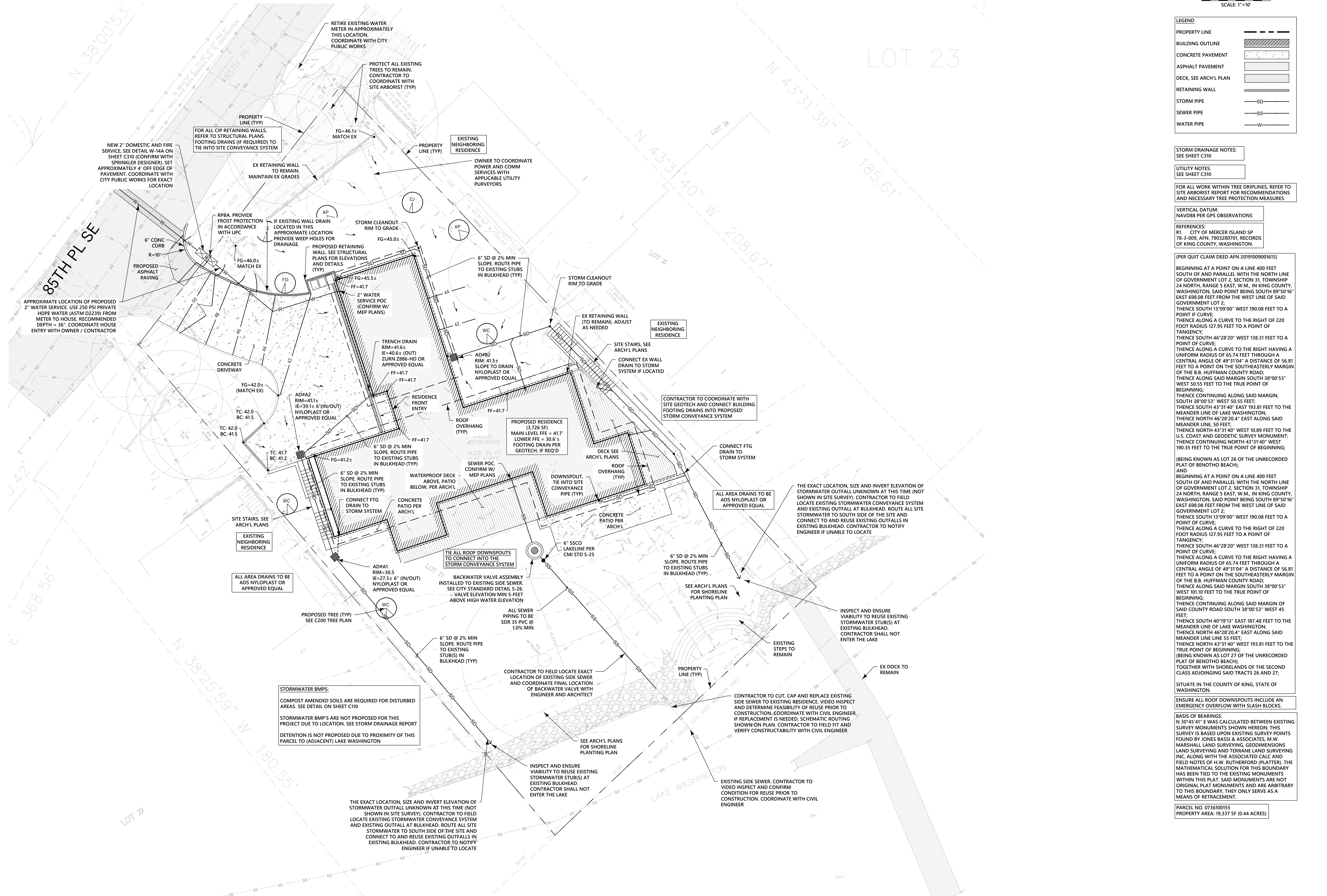
DATE: 03/11/22 SHEET SIZE: E1 (30X42)

REVISIONS NO: DATE:

DRAWN BY: CFS CHECKED BY: BJB

CIVIL SITE PLAN SCALE: AS NOTED

C300



STORMWATER BMPs:

COMPOST AMENDED SOILS ARE REQUIRED FOR DISTURBED AREAS. SEE DETAIL ON SHEET C310

STORMWATER BMP'S ARE NOT PROPOSED FOR THIS PROJECT DUE TO LOCATION. SEE STORM DRAINAGE REPORT

DETENTION IS NOT PROPOSED DUE TO PROXIMITY OF THIS PARCEL TO (ADJACENT) LAKE WASHINGTON

THE EXACT LOCATION, SIZE AND INVERT ELEVATION OF STORMWATER OUTFALL UNKNOWN AT THIS TIME (NOT SHOWN IN SITE SURVEY). CONTRACTOR TO FIELD LOCATE EXISTING STORMWATER CONVEYANCE SYSTEM AND EXISTING OUTFALL AT BULKHEAD. ROUTE ALL SITE STORMWATER TO SOUTH SIDE OF THE SITE AND CONNECT TO AND REUSE EXISTING OUTFALLS IN EXISTING BULKHEAD. CONTRACTOR TO NOTIFY ENGINEER IF UNABLE TO LOCATE

CONTRACTOR TO FIELD LOCATE EXACT LOCATION OF EXISTING SIDE SEWER AND COORDINATE FINAL LOCATION OF BACKWATER VALVE WITH ENGINEER AND ARCHITECT

INSPECT AND ENSURE VIABILITY TO REUSE EXISTING STORMWATER STUB(S) AT EXISTING BULKHEAD. CONTRACTOR SHALL NOT ENTER THE LAKE

CONTRACTOR TO CLUT, CAP AND REPLACE EXISTING SIDE SEWER TO EXISTING RESIDENCE. VIDEO INSPECT AND DETERMINE FEASIBILITY OF REUSE PRIOR TO CONSTRUCTION. COORDINATE WITH CIVIL ENGINEER. IF REPLACEMENT IS NEEDED, SCHEMATIC ROUTING SHOWN ON PLAN. CONTRACTOR TO FIELD FIT AND VERIFY CONSTRUCTABILITY WITH CIVIL ENGINEER

EXISTING SIDE SEWER. CONTRACTOR TO VIDEO INSPECT AND CONFIRM CONDITION FOR REUSE PRIOR TO CONSTRUCTION. COORDINATE WITH CIVIL ENGINEER

THE EXACT LOCATION, SIZE AND INVERT ELEVATION OF STORMWATER OUTFALL UNKNOWN AT THIS TIME (NOT SHOWN IN SITE SURVEY). CONTRACTOR TO FIELD LOCATE EXISTING STORMWATER CONVEYANCE SYSTEM AND EXISTING OUTFALL AT BULKHEAD. ROUTE ALL SITE STORMWATER TO SOUTH SIDE OF THE SITE AND CONNECT TO AND REUSE EXISTING OUTFALLS IN EXISTING BULKHEAD. CONTRACTOR TO NOTIFY ENGINEER IF UNABLE TO LOCATE

INSPECT AND ENSURE VIABILITY TO REUSE EXISTING STORMWATER STUB(S) AT EXISTING BULKHEAD. CONTRACTOR SHALL NOT ENTER THE LAKE

STORM DRAINAGE NOTES:

- STORM PIPE SHALL BE PVC CONFORMING TO ASTM D-3034 SDR 35 (4" - 15") OR ASTM F679 (18"-27"). BEDDING AND BACKFILL SHALL BE AS SHOWN IN THE STANDARD DETAILS.
- THE FOOTING DRAINAGE SYSTEM AND THE ROOF DOWNSPOUT SYSTEM SHALL NOT BE INTERCONNECTED AND SHALL SEPARATELY CONVEY COLLECTED FLOWS TO THE CONVEYANCE SYSTEM OR TO ON-SITE STORMWATER FACILITIES.
- PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF STORM DRAINAGE WORK, PIPES AND STORM DRAIN STRUCTURES SHALL BE CLEANED AND FLUSHED. ANY OBSTRUCTIONS TO FLOW WITHIN THE STORM DRAIN SYSTEM (SUCH AS RUBBLE, MORTAR AND WEDGED DEBRIS), SHALL BE REMOVED AT THE NEAREST STRUCTURE. WASH WATER OF ANY SORT SHALL NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM OR SURFACE WATERS.
- ENDS OF EACH STORM DRAIN STUB AT THE PROPERTY LINE SHALL BE CAPPED AND LOCATED WITH AN 8' LONG 2" X 4" BOARD, EMBEDDED TO THE STUB CAP AND EXTENDING AT LEAST 3 FEET ABOVE GRADE, AND MARKED PERMANENTLY "STORM". A COPPER 12 GA. LOCATE WIRE FIRMLY ATTACHED. THE STUB DEPTH SHALL BE INDICATED ON THE MARKER.
- ALL GRATES IN ROADWAYS SHALL BE DUCTILE IRON, BOLT-LOCKING, VANED GRATES PER THE STANDARD DETAILS. STRUCTURES IN TRAFFIC LANES OUTSIDE OF THE CURB LINE WHICH DO NOT COLLECT RUNOFF SHALL BE FITTED WITH ROUND, BOLT-LOCKING FRAMES AND SOLID COVERS. OFF-STREET STRUCTURES WHICH DO NOT COLLECT RUNOFF SHALL BE FITTED WITH BOLT-LOCKING SOLID COVERS.
- VEGETATION/LANDSCAPING IN THE DETENTION POND, BIORETENTION FACILITY, VEGETATED ROOF AND/OR DRAINAGE SWALE(S) ARE AN INTEGRAL PART OF THE RUNOFF TREATMENT SYSTEM FOR THE PROJECT. SUCH DRAINAGE FACILITIES WILL NOT BE ACCEPTED UNTIL PLANTINGS ARE ESTABLISHED.
- ALL NEW MANHOLES SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES AND SHALL CONFORM TO THE STANDARD DETAILS. ALL NEW CATCH BASINS SHALL CONFORM TO THE STANDARD DETAILS.
- STORM STUB STATIONS ARE REFERENCED FROM NEAREST DOWNSTREAM MANHOLE/ CATCH BASIN.
- ALL TESTING AND CONNECTIONS TO EXISTING MAINS SHALL BE DONE IN THE PRESENCE OF THE CITY'S INSPECTOR.
- ALL PUBLIC STORM DRAINS SHALL BE AIR TESTED AND HAVE A VIDEO INSPECTION PERFORMED PRIOR TO ACCEPTANCE (SEE #17 BELOW). STORM MAIN CONSTRUCTED WITH FLEXIBLE PIPE SHALL BE DEFLECTION TESTED WITH A MANDREL PRIOR TO ACCEPTANCE.
- STORM STUBS SHALL BE TESTED FOR ACCEPTANCE AT THE SAME TIME THE STORM MAIN IS TESTED.
- ALL MANHOLES/ CATCH BASINS IN UNPAVED AREAS SHALL INCLUDE A CONCRETE SEAL AROUND ADJUSTMENT RINGS PER STANDARD DETAILS.
- ALL STORM MAIN EXTENSIONS WITHIN THE PUBLIC RIGHT-OF-WAY OR IN EASEMENTS MUST BE "STAKED" BY A SURVEYOR LICENSED IN WASHINGTON STATE FOR "LINE AND GRADE" AND CUT SHEETS PROVIDED TO THE CITY'S INSPECTOR, PRIOR TO STARTING CONSTRUCTION.
- STORM DRAINAGE MAINLINES, STUBS AND FITTINGS SHALL BE CONSTRUCTED USING THE SAME PIPE MATERIAL AND MANUFACTURER. CONNECTIONS BETWEEN STUBS AND THE MAINLINE WILL BE MADE WITH A TEE FITTING. THE FITTING SHALL BE FROM SAME MANUFACTURER AS PIPE. CUT-IN CONNECTIONS ARE ONLY ALLOWED WHEN CONNECTING A NEW STUB TO AN EXISTING MAINLINE.
- MANHOLES, CATCH BASINS AND VAULTS ARE CONSIDERED TO BE PERMIT-REQUIRED CONFINED SPACES. ENTRY INTO THESE SPACES SHALL BE IN ACCORDANCE WITH CHAPTER 296-809 WAC.
- PLACEMENT OF SURFACE APPURTENANCES (MH LIDS, VALVE LIDS, ETC.) IN TIRE TRACKS OF TRAFFIC LANES SHALL BE AVOIDED WHENEVER POSSIBLE.
- THE CONTRACTOR SHALL PERFORM A VIDEO INSPECTION AND PROVIDE A DIGITAL COPY OF THE VIDEO INSPECTION FOR THE CITY'S REVIEW. THE VIDEO SHALL PROVIDE A MINIMUM OF 480 X 640 RESOLUTION AND COVER THE ENTIRE LENGTH OF THE APPLICABLE PIPE. THE CAMERA SHALL BE MOVED THROUGH THE PIPE AT A UNIFORM RATE (c. 30 FT/MIN), STOPPING WHEN NECESSARY TO ENSURE PROPER DOCUMENTATION OF THE PIPE CONDITION. THE VIDEO SHALL BE TAKEN AFTER INSTALLATION AND CLEANING TO INSURE THAT NO DEFECTS EXIST. THE PROJECT WILL NOT BE ACCEPTED UNTIL ALL DEFECTS HAVE BEEN REPAIRED.
- NOT USED.
- ALL CONCRETE STRUCTURES (VAULTS, CATCH BASINS, MANHOLES, OIL/WATER SEPARATORS, ETC.) SHALL BE VACUUM TESTED.
- MANHOLES, CATCH BASINS AND INLETS IN EASEMENTS SHALL BE CONSTRUCTED TO PROVIDE A STABLE, LEVEL GRADE FOR A MINIMUM RADIUS OF 2.5 FEET AROUND THE CENTER OF THE ACCESS OPENING TO ACCOMMODATE CONFINED SPACE ENTRY EQUIPMENT.
- TOPS OF MANHOLES/ CATCH BASINS WITHIN PUBLIC RIGHT-OF-WAY SHALL NOT BE ADJUSTED TO FINAL GRADE UNTIL AFTER PAVING.
- CONTRACTOR SHALL ADJUST ALL MANHOLE/ CATCH BASIN RIMS TO BE FLUSH WITH FINAL FINISHED GRADES, UNLESS OTHERWISE SHOWN.
- DURING CONSTRUCTION, CONTRACTOR SHALL INSTALL, AT ALL CONNECTIONS TO EXISTING DOWNSTREAM MANHOLES/CATCH BASINS, SCREENS OR PLUGS TO PREVENT FOREIGN MATERIALS FROM ENTERING EXISTING STORM DRAINAGE SYSTEM. SCREENS OR PLUGS SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THE CONSTRUCTION AND SHALL BE REMOVED ALONG WITH COLLECTED DEBRIS AT THE TIME OF FINAL INSPECTION AND IN THE PRESENCE OF THE CITY'S INSPECTOR.
- NOT USED.
- MINIMUM COVER OVER STORM DRAINAGE PIPE SHALL BE 2 FEET, UNLESS OTHERWISE SHOWN.
- REDIRECT SHEET FLOW, BLOCK DRAIN INLETS AND/OR CURB OPENINGS IN PAVEMENT AND INSTALL FLOW DIVERSION MEASURES TO PREVENT CONSTRUCTION SILT LADEN RUNOFF AND DEBRIS FROM ENTERING EXCAVATIONS AND FINISH SURFACES FOR BIORETENTION FACILITIES AND PERMEABLE PAVEMENTS.
- WHERE AMENDED SOILS, BIORETENTION FACILITIES, AND PERMEABLE PAVEMENTS ARE INSTALLED, THESE AREAS SHALL BE PROTECTED AT ALL TIMES FROM BEING OVER-COMPACTED.

UNDERGROUND UTILITY NOTE:

UNDERGROUND UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY SERVICES ARE SHOWN, OR THAT THE LOCATION, SIZE AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPES WHERE CROSSING INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURES, TO DETERMINE ACTUAL LOCATIONS, SIZE AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE-CALL AT 8-1-1 (WASHINGTON811.COM) AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION.

GENERAL DRAINAGE NOTES:

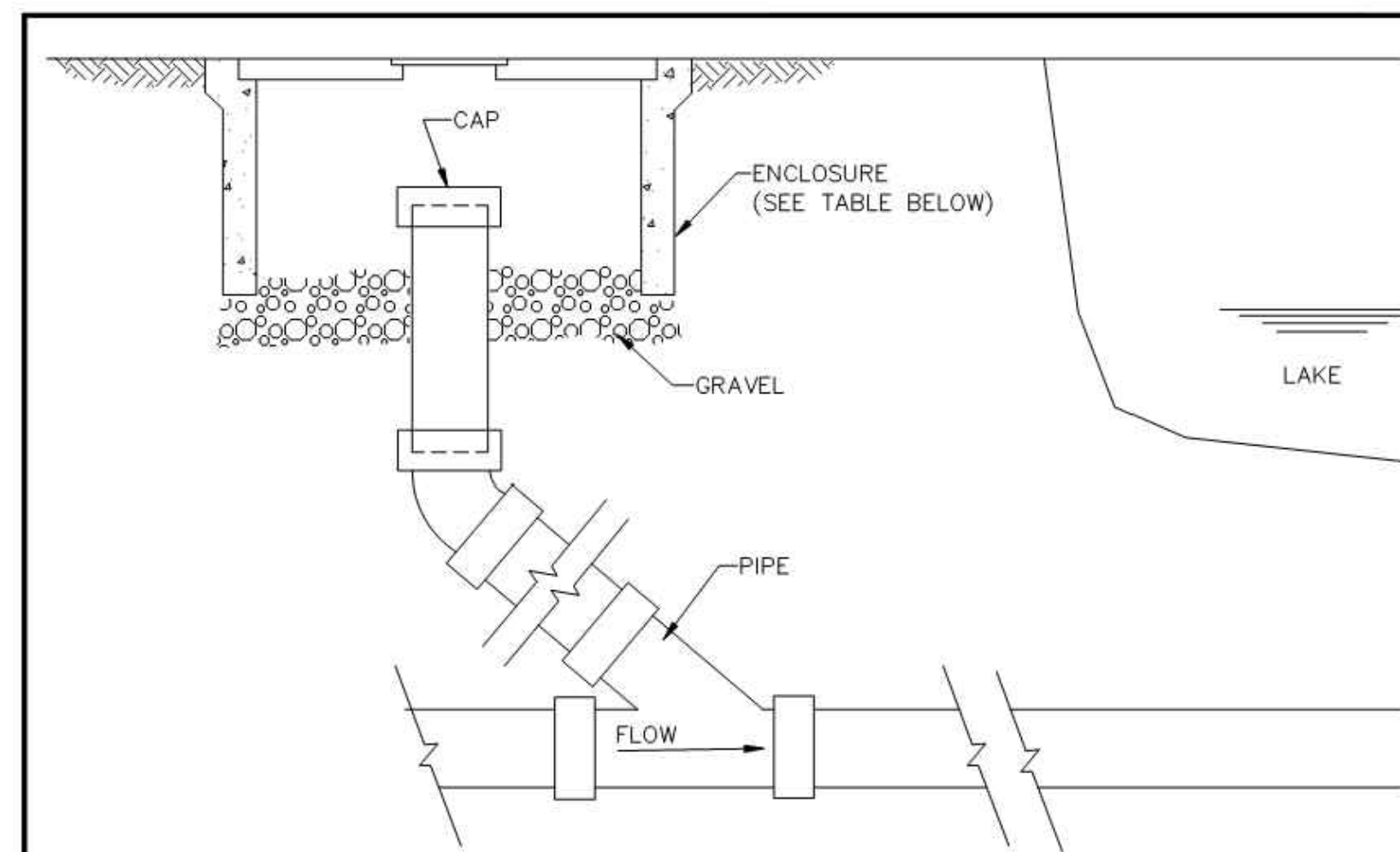
- ALL STORM LINES AND RETENTION/DETENTION AREAS SHALL BE STAKED FOR GRADE AND ALIGNMENT BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK, AND CURRENTLY LICENSED IN THE STATE OF WASHINGTON TO DO SO.
- ALL PIPE APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT 7-02.3(1) UNLESS OTHERWISE NOTED IN THE PLANS, DETAILS OR PROJECT SPECIFICATIONS. THIS SHALL INCLUDE LEVELING AND COMPACTING THE TRENCH BOTTOM, THE TOP OF THE FOUNDATION MATERIAL, AND ANY REQUIRED PIPE BEDDING TO A UNIFORM GRADE SO THAT THE ENTIRE PIPE IS SUPPORTED BY A UNIFORMLY DENSE UNYIELDING BASE.
- ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, NOT LOCATED WITHIN A TRAVELED ROADWAY OR SIDEWALK, MUST HAVE SOLID LOCKING LIDS. ALL DRAINAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY MUST HAVE SOLID LOCKING LIDS.
- SOLID LOCKING LIDS MUST BE USED FOR ALL CATCH BASINS NOT LOCATED WITHIN A GUTTER FLOWLINE AND VANED GRATE STYLE COVERS MUST BE USED WITHIN THE GUTTER FLOWLINE.
- ALL CONVEYANCE PIPE 6-INCHES OR GREATER IN DIAMETER MUST BE ASTM D3034 SDR 35 PVC UNLESS OTHERWISE NOTED IN THE PLANS, DETAILS OR PROJECT SPECIFICATIONS.

RESTORATION NOTES:

- SURFACE RESTORATION OF EXISTING ASPHALT PAVEMENT SHALL BE AS REQUIRED BY THE RIGHT-OF-WAY USE PERMIT.
- THE CONTRACTOR SHALL RESTORE THE RIGHT-OF-WAY AND EXISTING PUBLIC STORM DRAINAGE EASEMENT(S) AFTER CONSTRUCTION TO A CONDITION EQUAL OR BETTER THAN CONDITION PRIOR TO ENTRY. THE CONTRACTOR SHALL FURNISH A RELEASED FROM ALL AFFECTED PROPERTY OWNERS AFTER RESTORATION HAS BEEN COMPLETED.

UTILITY NOTES:

- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE EXCAVATOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN, AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HERE ON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. IMMEDIATELY NOTIFY THE RESPONSIBLE PROFESSIONAL ENGINEER IF A CONFLICT EXISTS.
- CALL 1-800-424-5555, OR 8-1-1, 72 HOURS BEFORE CONSTRUCTION FOR UTILITY LOCATES.
- THE CONTRACTOR SHALL MAINTAIN A MINIMUM OF FIVE FEET (5') HORIZONTAL SEPARATION BETWEEN ALL WATER AND STORM DRAINAGE LINES. ANY CONFLICT SHALL BE REPORTED TO THE UTILITY AND THE RESPONSIBLE PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION.
- AVOID CROSSING WATER OR SEWER MAINS AT HIGHLY ACUTE ANGLES. THE SMALLEST ANGLE MEASURE BETWEEN UTILITIES SHOULD BE 45 DEGREES.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO CONFLICTS EXIST BETWEEN STORM DRAINAGE FACILITIES AND PROPOSED OR EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- AT POINTS WHERE EXISTING THRUST BLOCKING IS FOUND, MINIMUM CLEARANCE BETWEEN CONCRETE BLOCKING AND OTHER BURIED UTILITIES OR STRUCTURES SHALL BE 5 FEET.
- WHERE A NEW UTILITY LINE CROSSES BELOW AN EXISTING AC MAIN, THE AC PIPE SHALL BE REPLACED WITH DI PIPE TO 3 FEET PAST EACH SIDE OF THE TRENCH AS SHOWN ON STANDARD DETAIL W-8. ALTERNATIVELY, APPROVED IN WRITING BY THE UTILITY, THE TRENCH MAY BE BACKFILLED WITH CONTROLLED DENSITY FILL (CDF, AKA FLOWABLE FILL) FROM BOTTOM OF TRENCH TO BOTTOM OF AC MAIN.



LAKE LINE CLEANOUT

PIPE SIZE	MATERIAL	CAP	ENCLASURE	COMMENTS
6"	PVC	SIDU MECHANICAL SEWER PLUG	CONC. METER BOX, FOGTITE 1-D	INSTALLATION BELOW HYDRAULIC GRADIENT
6"	PVC	PVC CAP W/O GASKET	CONC. METER BOX, FOGTITE 1-D	INSTALLATION ABOVE HYDRAULIC GRADIENT
6"	DIP	MECHANICAL JOINT CAP	CONC. METER BOX, FOGTITE 1-D	INSTALLATION ABOVE HYDRAULIC GRADIENT
8"	PVC	PVC CAP W/O GASKET	CONC. METER BOX, FOGTITE NO. 2 (CONC. LID W/ ALUM. INS. PLATE)	INSTALLATION ABOVE HYDRAULIC GRADIENT
8"	DIP	MECHANICAL JOINT CAP	CONC. METER BOX, FOGTITE NO. 2 (CONC. LID W/ ALUM. INS. PLATE)	INSTALLATION ABOVE HYDRAULIC GRADIENT

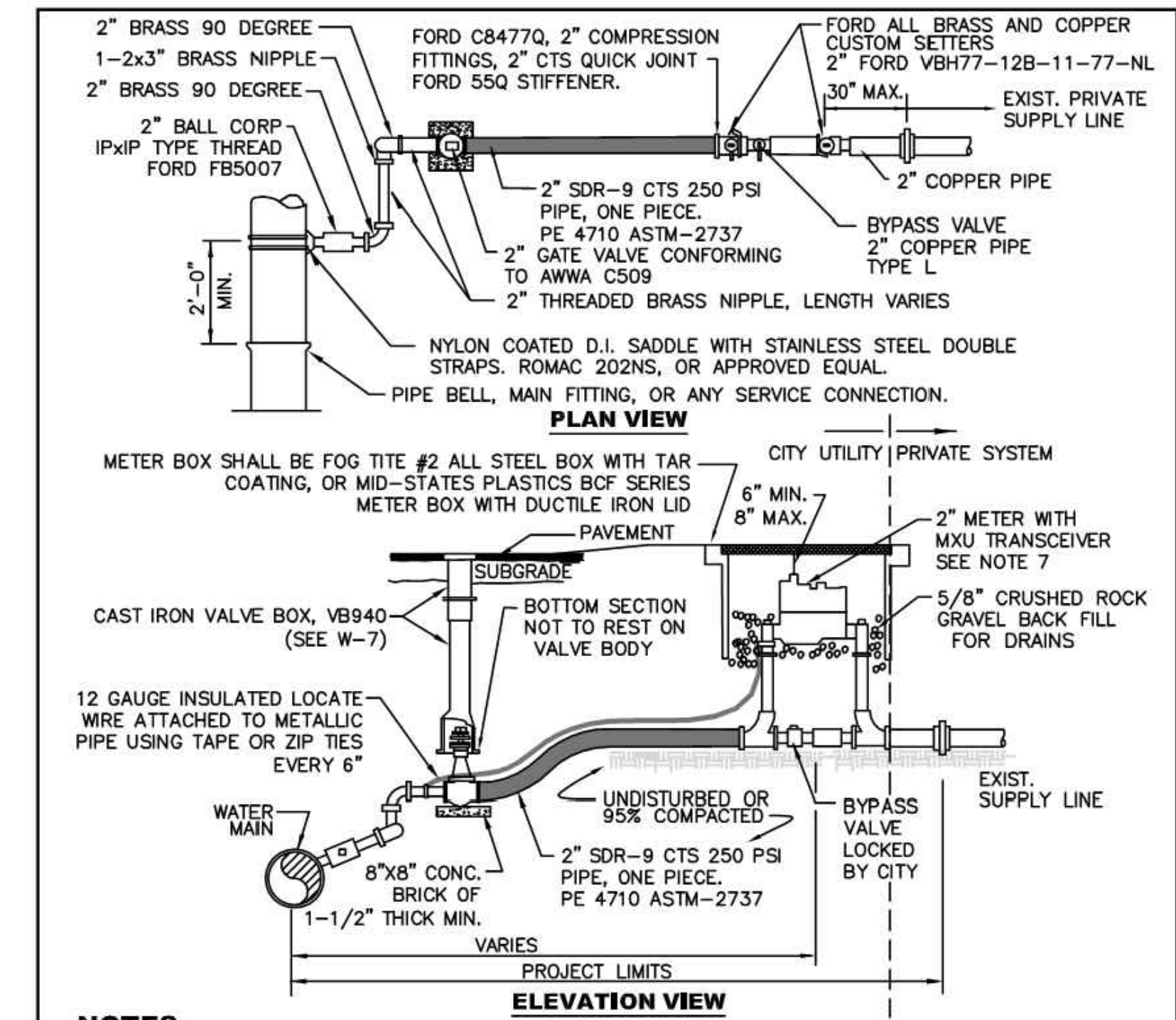
NOTES

- IF POSSIBLE, CLEANOUT TO BE LOCATED JUST ABOVE HYDRAULIC GRADIENT OF LAKE LINE. CLEANOUT SHOULD ALSO BE LOCATED TO PROVIDE EASY ACCESS FOR INSPECTION AND MAINTENANCE BY THE HOME OWNER.
- SEE S-23 & S-24 FOR BACK WATER VALVE LOCATION.

CITY OF MERCER ISLAND
STANDARD DETAILS
SEWER
SIDE SEWER CLEANOUT FOR LAKE LINE CONNECTIONS
 6-5-2009 NO SCALE **S-25**

REV DATE				APPROVED
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SIDE SEWER CLEANOUT
NTS 5



NOTES

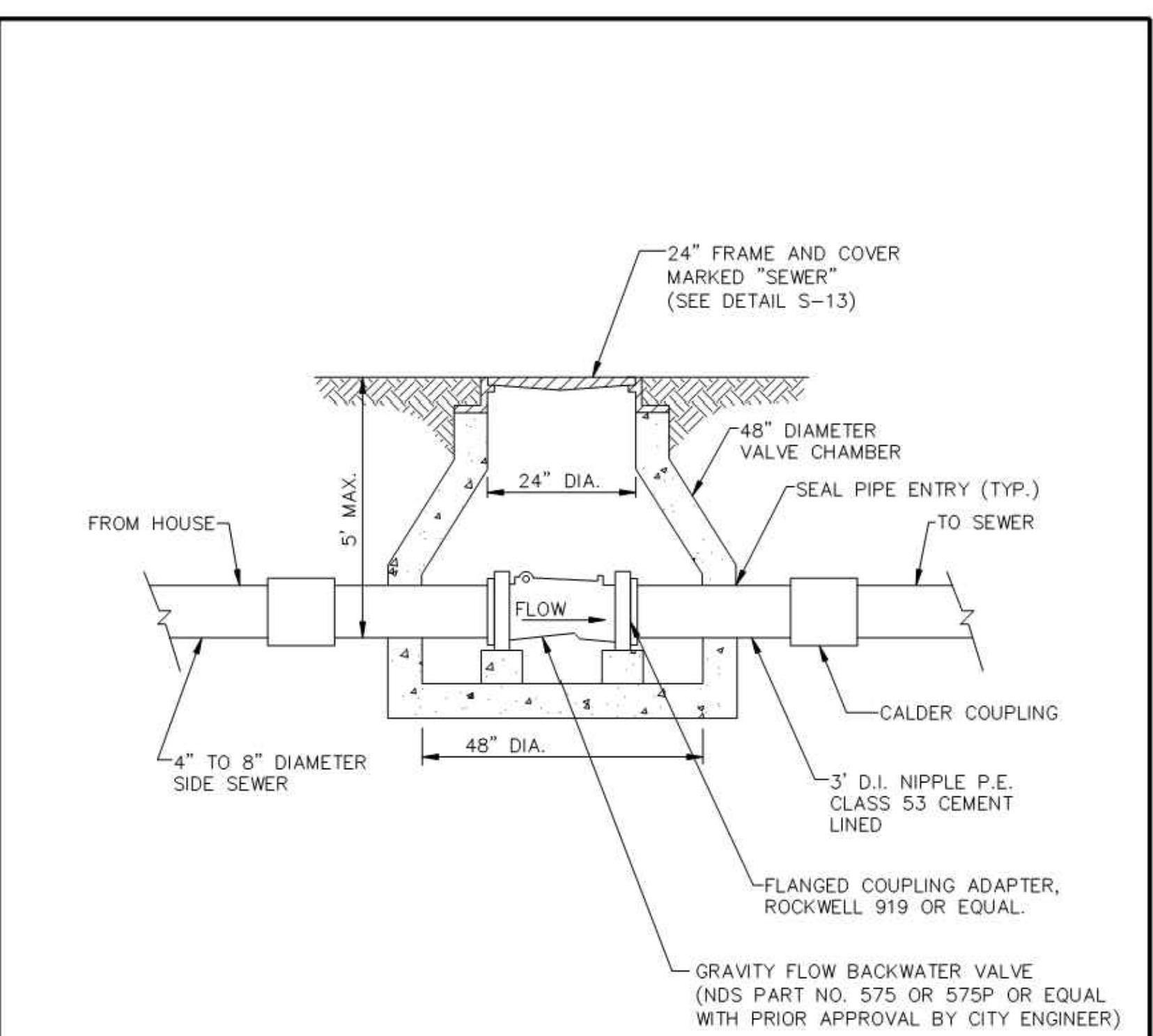
- WATER SERVICES SHALL COMPLY WITH THE REDUCTION OF LEAD IN DRINKING WATER ACT DATED 01/04/2014.
- MINIMUM DISTANCE BETWEEN CORP STOPS SHALL BE 18". MINIMUM DISTANCE BETWEEN TAPS, BETWEEN CORP STOP AND PIPE ENDS SHALL BE 24", ALL HORIZONTALLY STAGGERED.
- PLASTIC METER BOXES SHALL NOT BE INSTALLED WITHIN ROADWAY, SIDEWALK, OR DRIVEWAYS.
- UPON CITY ENGINEER'S APPROVAL, METER BOXES ARE ALLOWED TO BE INSTALLED IN PORTLAND CEMENT CONCRETE PAVEMENT OR SIDEWALK.
- WHEN CONNECTING TO EXISTING PRIVATE SUPPLY LINE CONTAINING FERROUS METAL, PROVIDE INSULATING COUPLING (DB SERIES WITH C21 SERIES ADAPTERS) AND PROVIDE REDUCER AS NECESSARY TO MATCH EXISTING PRIVATE SUPPLY LINE DIAMETER.
- SERVICE LINE SHALL BE PERPENDICULAR TO THE WATER MAIN AND STRAIGHT TO WATER METER UNLESS OTHERWISE APPROVED BY CITY ENGINEER. PROVIDE WINDING SLACK IN THE SERVICE LINE BETWEEN THE MAIN AND WATER METER.
- WATER METER SUPPLIED BY CITY.
- ALL FITTINGS TO BE BRASS COMPRESSION TYPE, FORD QUICK JOINT OR EQUAL.
- NO SERVICE CONNECTIONS BETWEEN BLOW-OFF AND END OF MAIN.

CITY OF MERCER ISLAND
STANDARD DETAILS
WATER
2" WATER METER INSTALLATION

02-05-2021	NO SCALE	W-14A
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REV DATE				APPROVED
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2" WATER METER
NTS 3



CITY OF MERCER ISLAND
STANDARD DETAILS
SEWER
BACK WATER VALVE ASSEMBLY FOR JOINT USE SIDE SEWER (4\"/>

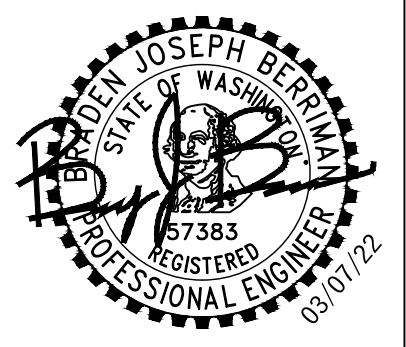
6-5-2009	NO SCALE	S-26
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REV DATE				APPROVED
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SEWER BACKWATER VALVE
NTS 6

LATITUDE 48

LATITUDE 48, P.S.
 CONTACT: BRADY BERRIMAN
 PHONE NUMBER: 206.556.1615



8480 RESIDENCE
 8480 85TH AVE SE
 MERCER ISLAND, WA
 98040

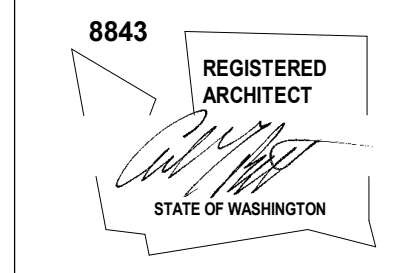
CITY OF MERCER ISLAND
 PERMIT SUBMITTAL
 DATE: 03/11/22
 SHEET SIZE: E1 (30X42)
REVISIONS
 NO: DATE:

DRAWN BY: CFS
 CHECKED BY: BJB
CIVIL
DETAILS & NOTES
 SCALE: AS NOTED

C310

SIDE SEWER CLEANOUT
NTS 5

SEWER BACKWATER VALVE
NTS 6



8480 RESIDENCE
8480 85TH AVE SE
MERCER ISLAND, WA 98040
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PERMIT SUBMITTAL SET

DATE: 03.11.22

SHEET SIZE: E (30X42)

REVISIONS
NO. DATE:

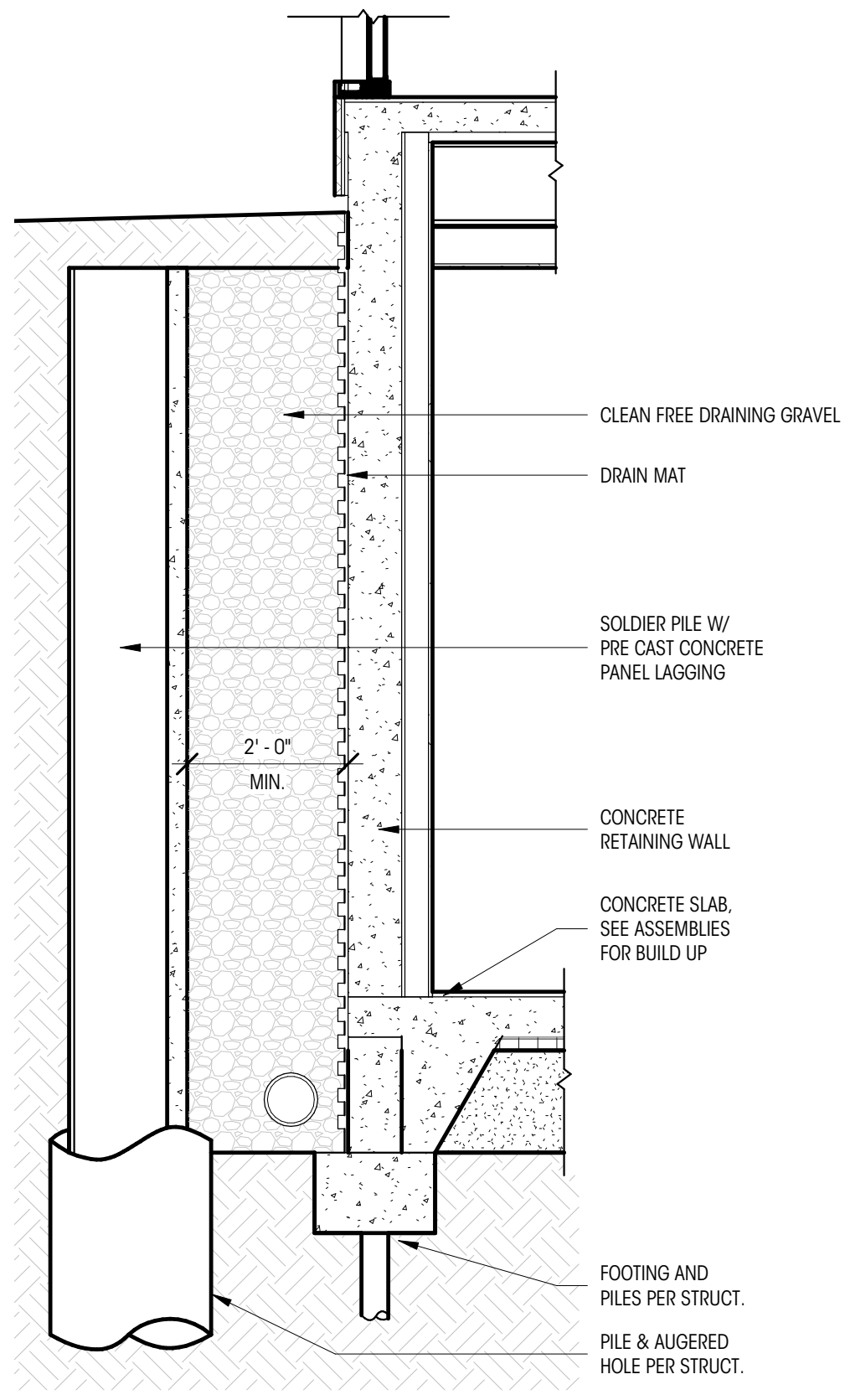
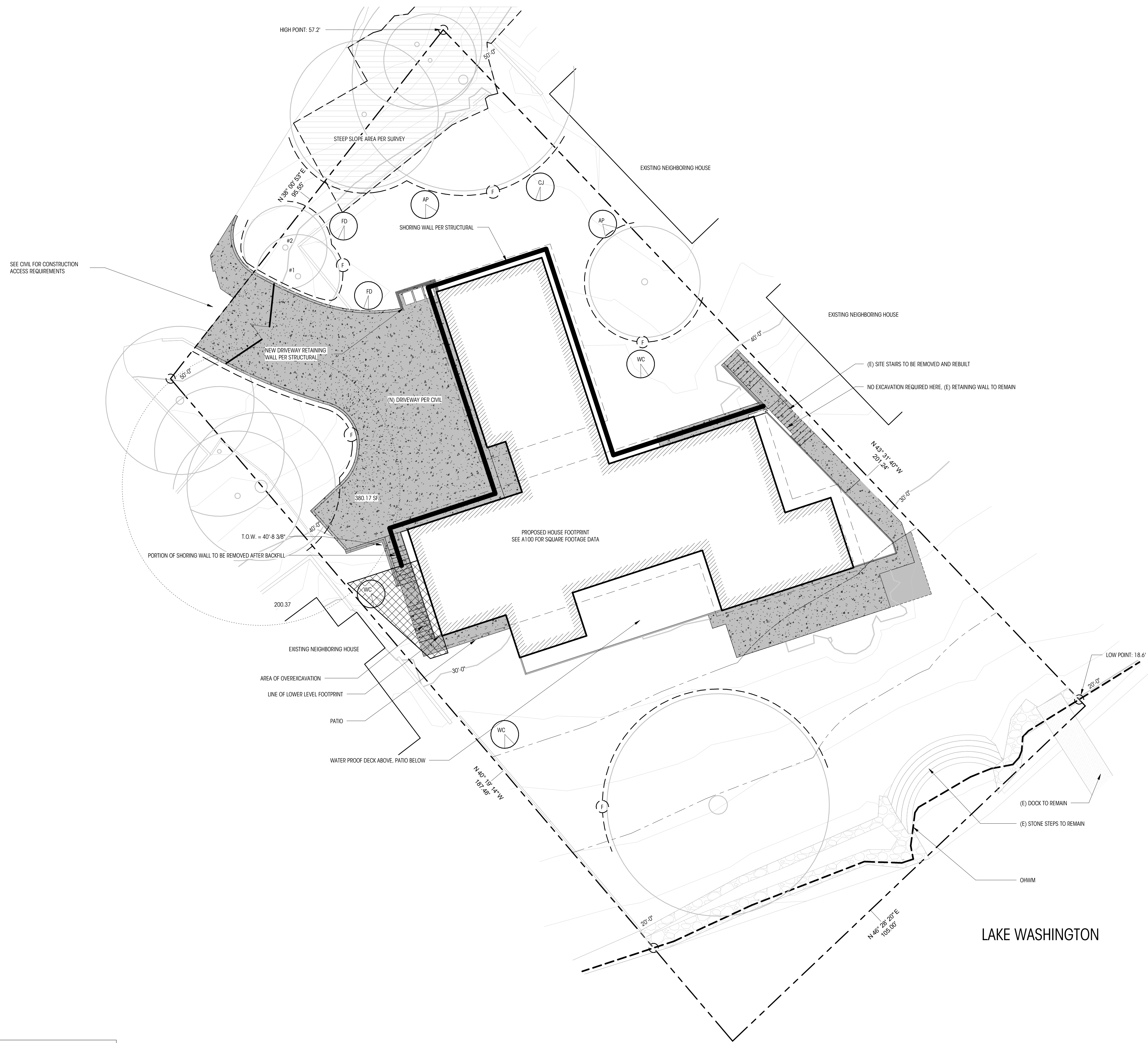
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ARCHITECTURAL
SHORING SITE PLAN

SCALE: As indicated

AS101

DEDICATED
APPROVAL
STAMP SPACE

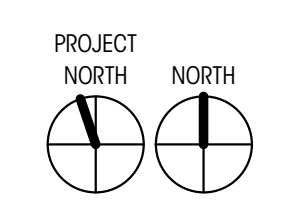


2 SHORING DETAIL
1/2" = 1'-0"

LEGEND	
	ELEVATION DATUM
	MAIN LEVEL FIN. FLR.
	ORDINARY HIGH WATER MARK
	PROPERTY LINE
	SETBACK LINE
	ROOF OVERHANG
	TREE PROTECTION FENCE
	CONTOUR MAJOR
	CONTOUR MINOR
	(N) HOUSE FOOTPRINT
	(E) PATIO / WALKWAYS / CONCRETE DRIVE / PAVING TO REMAIN
	(N) PATIO / WALKWAYS / CONCRETE DRIVE / PAVING / SITE WALLS
	(E) ROCKERY TO REMAIN
	STEEP SLOPE HAZARD AREA PER SURVEY
	(E) TREE TO REMAIN
	(N) TREE
	AREA OF OVEREXCAVATION
	SHORING WALL PER STRUCTURAL

- NOTES**
- PROPERTY LINE METES & BOUNDS ARE SHOWN PER TOPOGRAPHIC SURVEY BY TERRANE DATED 02/19/21
 - TREES AND COUNTOURS ARE BASED ON TOPOGRAPHIC SURVEY BY TERRANE DATE 02/19/21
 - SEE SHEETS A0100 & A100 FOR ADDITIONAL PROJECT DATA & SQUARE FOOTAGE CALCULATIONS
 - SEE CIVIL PLANS FOR SITE PROTECTION (TESC), STORM WATER CONTROL, AND GRADING
 - (19-13.020.0) LEGAL NONCONFORMING USES AND STRUCTURES MAY CONTINUE.

1 SITE PLAN - SHORING AND EXCAVATION
1" = 10'-0"



General Structural Notes

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS

CODE REQUIREMENTS

1. ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2018 EDITION, AND THE LATEST EDITION OF PTI DC35.1, "RECOMMENDATIONS FOR PRESTRESSED ROCK AND SOIL ANCHORS".

GENERAL REQUIREMENTS

2. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATIONS, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ENGINEER AND 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.

3. SHOULD ANY DISCREPANCIES BE FOUND IN THE PROJECT DOCUMENTS, THE CONTRACTOR WILL BE DEEMED TO HAVE INCLUDED IN THE PRICE THE MOST EXPENSIVE WAY OF COMPLETING THE WORK, UNLESS PRIOR TO SUBMISSION OF THE PRICE THE CONTRACTOR ASKS FOR A DECISION FROM THE ENGINEER AND ARCHITECT AS TO WHICH SHALL GOVERN.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTOR'S WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDOUS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES TO THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.

5. CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF EXISTING STRUCTURES IN THE FIELD AND SHALL NOTIFY THE ENGINEER OF ALL FIELD CHANGES PRIOR TO FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBER.

6. CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.

7. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. ALL TYPICAL AND NOTES SHOWN ON DRAWINGS SHALL APPLY, UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE PLANS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO TYPICAL DETAIL IS NOTED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.

8. THE FOLLOWING ITEMS SHALL BE SUBMITTED IN WRITING FOR APPROVAL TO THE ENGINEER, ARCHITECT AND OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK OR THE FABRICATION OR INSTALLATION OF ANY STRUCTURAL ITEM. THE CONTRACTOR SHALL RETAIN ALL RESPONSIBILITY FOR MEANS AND METHODS OF CONSTRUCTION.

SHORING MONITORING PROGRAM: SEE MONITORING SECTION.
CONCRETE AND GROUT MIX DESIGN

9. SHOP DRAWINGS FOR THE FOLLOWING ITEMS SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION OF THESE ITEMS.

STRUCTURAL STEEL
TENDONS
ANCHORS
GROUTS AND CONCRETES.

10. SHOP DRAWING REVIEW DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE ENGINEER OF RECORD. THEREFORE MUST BE VERIFIED BY THE CONTRACTOR. CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS PRIOR TO REVIEW BY ENGINEER OF RECORD. CONTRACTOR SHALL REVIEW DRAWINGS FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES AND OPERATIONS OF CONSTRUCTION, AND ALL SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO. SUBMITTALS SHALL INCLUDE A REPRODUCIBLE AND ONE COPY; REPRODUCIBLE WILL BE MARKED AND RETURNED WITHIN TWO WEEKS OF RECEIPT WITH A NOTATION INDICATING THAT THE SUBMITTAL HAS BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE SUBMITTED ITEMS SHALL NOT BE INSTALLED UNTIL THEY HAVE BEEN APPROVED BY THE DESIGN TEAM.

SHOP DRAWING SUBMITTALS PROCESSED BY THE ENGINEER ARE NOT CHANGE ORDERS. THE PURPOSE OF SHOP DRAWING SUBMITTALS BY THE CONTRACTOR IS TO DEMONSTRATE TO THE ENGINEER THAT THE CONTRACTOR UNDERSTANDS THE DESIGN CONCEPT, BY INDICATING WHICH MATERIAL IS INTENDED TO BE FURNISHED AND INSTALLED AND BY DETAILING THE INTENDED FABRICATION AND INSTALLATION METHODS.

11. UTILITY LOCATION: THE UTILITIES INFORMATION SHOWN ON THE PLANS MAY NOT BE COMPLETE. THE SHORING CONTRACTOR SHALL DETERMINE THE HORIZONTAL AND VERTICAL LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO DRIVING PILES, DRILLING PILE HOLES, TIEBACK ANCHORS, OR CUTTING OR DIGGING IN STREETS OR ALLEYS. THIS INCLUDES CALLING UTILITY LOCATE AND THEN POT-HOLING ALL UTILITIES PRIOR TO CONSTRUCTION TO CONFIRM DEPTHS AND LOCATIONS AND TO VERIFY THAT THERE ARE NO CONFLICTS WITH THE PILE AND TIEBACK CROSSING ELEVATIONS. PILES AND TIEBACKS, INCLUDING CONCRETE CASING SHALL MAINTAIN A MINIMUM OF 36" CLEARANCE TO ANY EXISTING UTILITIES TO REMAIN. CONTRACTOR SHALL NOTIFY THE ENGINEER OF CONFLICTS. CONFLICTS SHALL BE RESOLVED IN WRITING PRIOR TO PROCEEDING WITH CONSTRUCTION.

QUALITY ASSURANCE

12. GEOTECHNICAL SPECIAL INSPECTION SHALL BE PERFORMED FOR THE FOLLOWING ELEMENTS IN ACCORDANCE WITH : INSPECTION BY THE GEOTECHNICAL ENGINEER SHALL BE PERFORMED FOR PILE AND ANCHOR PLACEMENT AND DIRECT CONTINUOUS OBSERVATION SHALL BE CONTINUOUSLY PERFORMED FOR PILE AND ANCHOR INSTALLATION SHALL BE PERFORMED UNDER DIRECT CONTINUOUS OBSERVATION. AND TIEBACK PLACING AND STRESSING. ALL PREPARED SOIL BEARING SURFACES SHALL BE INSPECTED BY THE SOILS ENGINEER PRIOR TO PLACEMENT OF PILES. SOIL COMPACTION SHALL BE SUPERVISED BY AN APPROVED TESTING LAB. THE GEOTECHNICAL ENGINEER SHALL ALSO ADVISE ON WATER CONTROL AND SLAB ON GRADE CONSTRUCTION.

SOIL CONDITIONS, FILL PLACEMENT, AND DENSITY PER TABLE 1705.6
CAST-IN-PLACE DEEP FOUNDATION PER TABLE 1705.8
SOIL ANCHORS AND TIEBACKS CONTINUOUS

13. WET WEATHER INSPECTION: A SITE VISIT FROM THE GEOTECHNICAL SPECIAL INSPECTOR SHALL OCCUR DURING EACH DAY OF ACTIVE GRADING AND IN THE EVENT OF SIGNIFICANT RAINFALL WHICH MIGHT COMPROMISE STABILIZATION MEASURES BETWEEN NOVEMBER 1 AND MARCH 31. THE DETERMINATION OF WHAT CONSTITUTES SIGNIFICANT RAINFALL IS SUBJECT TO THE DISCRETION OF THE GEOTECHNICAL SPECIAL INSPECTOR. HOWEVER, AS A MINIMUM STANDARD, THE GEOTECHNICAL SPECIAL INSPECTOR IS REQUIRED TO CONDUCT A SITE VISIT IF MORE THAN ONE HALF INCH OF PRECIPITATION OCCURS ON ANY GIVEN DAY. ANY RECOMMENDATIONS REQUIRED TO MAINTAIN STABILITY OF EXCAVATIONS AND PROPER FUNCTIONING OF THE SEDIMENT/EROSION CONTROL SYSTEM PROVIDED BY THE GEOTECHNICAL SPECIAL INSPECTOR AND JURISDICTION PERSONNEL SHALL BE IMPLEMENTED IMMEDIATELY. THE GEOTECHNICAL SPECIAL INSPECTOR SHALL PROVIDE WRITTEN NOTICE THAT THE SITE HAS BEEN STABILIZED FOLLOWING COMPLETION OF GRADING.

SHORING MONITORING

14. A SYSTEMATIC PROGRAM OF MONITORING SHALL BE CONDUCTED DURING THE PROJECT EXECUTION TO DETERMINE THE EFFECT OF CONSTRUCTION ON ADJACENT FACILITIES AND STRUCTURES IN ORDER TO PROTECT THEM FROM DAMAGE. REFER TO REPORT OF GEOTECHNICAL INVESTIGATION FOR RECOMMENDATIONS. FIELD DATA AND MEASUREMENTS ARE TO BE SUBMITTED TO THE STRUCTURAL AND GEOTECHNICAL ENGINEER FOR REVIEW.

15. MONITORING SHALL BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR (PLS) LICENSED IN THE STATE OF WASHINGTON.

16. UNLESS OTHERWISE REQUIRED BY THE GEOTECHNICAL ENGINEER, THE MONITORING PROGRAM SHALL INCLUDE A VIDEO OR PHOTOGRAPHIC SURVEY PRIOR TO THE BEGINNING OF THE SHORING INSTALLATION TO DOCUMENT THE CURRENT CONDITIONS OF THE SURROUNDING FEATURES. THE SIZE AND LOCATION OF ANY EXISTING CRACKS IN ADJACENT SLABS, PAVEMENTS OR BUILDINGS SHALL BE MEASURED AND DOCUMENTED. CONTROL POINTS SHALL BE ESTABLISHED AT A DISTANCE WELL AWAY FROM THE WALLS AND SLOPES, AND DEFLECTIONS FROM THE REFERENCE POINTS SHALL BE MEASURED THROUGHOUT CONSTRUCTION BY OPTICAL SURVEY. A MINIMUM OF 3 MONITORING POINTS SHALL BE ESTABLISHED ON NEARBY ADJACENT BUILDINGS. MINIMUM SURVEY FREQUENCY SHALL BE ONCE PER WEEK.

17. SOLDIER PILE MONITORING PROGRAM: FOLLOWING INSTALLATION OF THE SOLDIER PILES, MONITORING POINTS SHALL BE ESTABLISHED ON THE TOP OF THE PILES PRIOR TO PROCEEDING WITH THE EXCAVATION. ONE MONITORING POINT SHALL BE ESTABLISHED FOR EVERY FOUR PILES. THE MONITORING POINTS SHALL BE READ DAILY DURING EXCAVATION OPERATIONS AND TWICE WEEKLY ONCE THE EXCAVATION IS COMPLETED. THE INITIAL READINGS FOR THIS MONITORING SHALL BE TAKEN BEFORE STARTING ANY DEMOLITION OR EXCAVATION ON THE SITE. NOTIFY THE GEOTECHNICAL AND STRUCTURAL ENGINEERS, SHORING DESIGNER, AND THE BUILDING DEPARTMENT IF 5" OF MOVEMENT OCCURS BETWEEN TWO CONSECUTIVE READINGS. THE ENGINEERS AND DESIGNERS SHALL DETERMINE THE CAUSE OF DISPLACEMENT AND DEVELOP REMEDIAL MEASURES IF WARRANTED. PLEASE NOTE THAT A MAXIMUM OF 1" HORIZONTAL DISPLACEMENT IS REQUIRED ANYWHERE ON SHORING WALL SURFACES THROUGHOUT THE SHORING WALL SERVICE LIFETIME. CONSTRUCTION SHALL BE SUSPENDED IMMEDIATELY AND REMEDIAL PROCEDURES APPLIED AS LONG AS A DISPLACEMENT READING EXCEEDS 1". IF THE TOTAL MEASURED LATERAL DEFLECTION OF THE PILES EXCEEDS 1", REMEDIAL MEASURES MAY BE REQUIRED.

18. EACH SET OF MONITORING DATA MUST BE PROVIDED TO THE GEOTECHNICAL ENGINEER FOR REVIEW. IT MAY BE NECESSARY TO INSTALL ADDITIONAL MONITORING POINTS IF WARRANTED BY THE DATA. RECOMMENDATIONS WILL BE PROVIDED BY THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION IF ADDITIONAL MONITORING POINTS BECOME NECESSARY.

19. SURVEY FREQUENCY MAY BE DECREASED AFTER THE SHORING SYSTEM HAS BEEN INSTALLED AND EXCAVATION IS COMPLETE IF THE DATA INDICATES LITTLE OR NO ADDITIONAL MOVEMENT. CHANGE IN THE SURVEY FREQUENCY SHALL BE APPROVED IN WRITING BY THE GEOTECHNICAL ENGINEER AND THE BUILDING DEPARTMENT. SURVEYING MUST CONTINUE UNTIL THE PERMANENT STRUCTURE (INCLUDING FLOOR SLABS AS BRACES) IS COMPLETE TO FINAL AND STREET GRADES.

GEOTECHNICAL INFORMATION AND CRITERIA

20. INSTALLATION OF SHORING, SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION AND FILLING REQUIREMENTS SHALL CONFORM WITH THE RECOMMENDATIONS CONTAINED IN THE SOILS REPORT AND/OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE SUBSURFACE CHARACTERIZATIONS USED TO DESIGN THE SHORING ARE CONTAINED IN THE SOILS REPORT AS REFERENCED ABOVE.

21. EXCAVATIONS FOR FOUNDATIONS SHALL BE PER PLAN DOWN TO UNDISTURBED NATIVE MATERIAL PER THE GEOTECHNICAL ENGINEERS RECOMMENDATIONS. OVER EXCAVATED AREAS SHALL BE BACKFILLED WITH LEAN CONCRETE OR PER GEOTECHNICAL RECOMMENDATIONS AT THE CONTRACTOR'S EXPENSE. EXCAVATION SLOPES SHALL BE SAFE AND SHALL NOT BE GREATER THAN THE LIMITS SPECIFIED BY LOCAL, STATE, AND NATIONAL SAFETY REGULATIONS. CONTRACTOR SHALL PROTECT CUT SLOPES AS NECESSARY IF CONSTRUCTION OCCURS DURING WET WEATHER, AND SHALL CONTROL AND MANAGE RUNOFF TO MINIMIZE EFFECTS ON CONSTRUCTION.

22. DESIGN SOIL CAPACITIES ARE DETERMINED BY THE GEOTECHNICAL ENGINEER. THE SOIL PRESSURES INDICATED ON THE SOIL PRESSURE DIAGRAM WERE USED FOR DESIGN. IN ADDITION TO THE DEAD AND LIVE LOADS, SEE REPORT OF GEOTECHNICAL INVESTIGATION FOR MORE COMPLETE INFORMATION, INCLUDING RECOMMENDATIONS FOR SHORING IN GENERAL, SHORING MONITORING, EXCAVATION, LAGGING, AND DRAINAGE.

23. SOIL DESIGN PARAMETERS ARE AS FOLLOWS:

	E. F. P.	
LATERAL EARTH PRESSURES	40 PCF	
ACTIVE EARTH PRESSURE (YIELDING)	300 PCF	
PASSIVE EARTH PRESSURE (ULTIMATE)	1.5 KSF	
ALLOWABLE SKIN FRICTION		2.0 KSF

TIEBACK PARAMETERS (ADHESION FROM PRESSURE GROUTED)

24. SHORING DURATION: THE SHORING IS TEMPORARY. THE CONSTRUCTION OF THE PERMANENT STRUCTURE SHALL COMMENCE IMMEDIATELY AFTER THE SHORING IS INSTALLED AND THE BULK EXCAVATION IS COMPLETE.

CONCRETE

25. CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH IBC SECTION 1905, 1906, AND ACI 301. STRENGTHS AT 28 DAYS AND MIX CRITERIA SHALL BE AS FOLLOWS:

f'c (psi)	Minimum Cement Per Cubic Yard	Max. Water Per 94 LB Cement	Use
---	1-1/2 sacks	---	pile & tieback lean concrete
3,000	9 sack pumpable mix	----	pile & tieback structural grout

26. THE MINIMUM AMOUNTS OF CEMENT MAY BE CHANGED IF A CONCRETE PERFORMANCE MIX IS SUBMITTED TO THE STRUCTURAL ENGINEER AND THE BUILDING DEPARTMENT FOR APPROVAL TWO WEEKS PRIOR TO PLACING ANY CONCRETE. THE PERFORMANCE MIX SHALL INCLUDE THE AMOUNTS OF CEMENT, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES AS WELL AS THE WATER CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH DATA IN ACCORDANCE WITH ACI 301. THE USE OF A PERFORMANCE MIX REQUIRES BATCH PLANT INSPECTION. THE COST OF WHICH SHALL BE PAID BY THE GENERAL CONTRACTOR. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT INFORMATION PRESENTED CONFORMS GENERALLY WITH CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIER MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE.

27. CONCRETE STRENGTHS SHALL BE VERIFIED BY STANDARD CYLINDER TESTS, UNLESS APPROVED OTHERWISE. REQUIRED ULTIMATE COMPRESSIVE STRENGTH OF STRUCTURAL GROUT SHALL BE REACHED BY 5 DAYS FOR TIEBACKS AND 28 DAYS FOR PILES AND FOUNDATIONS.

28. REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, FY = 60,000 PSI.

STEEL

29. STEEL SPECIFICATIONS: DESIGN, FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC MANUAL, AISC 360 AND SECTION 2205 OF THE BUILDING CODE.

30. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

TYPE OF MEMBER	ASTM SPECIFICATION	FY
WIDE FLANGE SHAPES	A992	50 KSI
OTHER SHAPES, PLATES, AND ROOF	A36	36 KSI
OTHER SHAPES AND PLATES (NOTED GRADE 50 ON PLANS)	A572 (GRADE 50)	50 KSI
PIPE COLUMNS	A53 (E OR S, GR. B)	35 KSI
STRUCTURAL TUBING	A500 (GRADE B) (SQUARE OR RECTANGULAR) (ROUND)	46 KSI
CONNECTION BOLTS	A325N BEARING TYPE (SNUG TIGHT)	42 KSI
ANCHOR BOLTS	A307 OR ASTM A-36	
HEADED SHEAR STUDS	A108	

31. ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORMED BY WABO CERTIFIED WELDERS USING E70XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL BE MADE WITH A FILLER MATERIAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT 20 DEGREES F AND 40 FT-LBS AT 70 DEGREES F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

32. UNLESS OTHERWISE REQUIRED BY THE MANUFACTURER, STEEL PROVIDED FOR TEMPORARY SHORING REQUIRES NO CORROSION PROTECTION.

PILE AND LAGGING CONSTRUCTION

33. DEMOLITION: SHORING AND SOIL EXCAVATION SHALL BE DONE SIMULTANEOUSLY.

34. DIMENSIONS AND LOCATION OF EXISTING STRUCTURES SHALL BE VERIFIED PRIOR TO FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBER. NOTIFY ENGINEER ABOUT ANY DISCREPANCIES PRIOR TO FABRICATION.

35. PILE AND ANCHOR HOLES SHALL BE DRILLED WITHOUT LOSS OF GROUND AND WITHOUT ENDANGERING PREVIOUSLY INSTALLED PILES AND ANCHORS. THIS MAY INVOLVE CASING THE HOLES OR OTHER METHODS OF PROTECTION FROM CAVING. REFER TO REPORT OF GEOTECHNICAL INVESTIGATION FOR RECOMMENDED HOLE DIGGING PROCEDURE.

36. AUGERCAST PILE PLACEMENT: ALTERNATE PILES SHALL BE PLACED AND COMPLETED SO THAT AT LEAST 24 HOURS IS ALLOWED FOR THE CONCRETE TO SET PRIOR TO DRILLING ADJACENT PILES.

37. STEEL PILE PLACEMENT TOLERANCES:

1" INSIDE PERPENDICULAR TO SHORING WALL.
1" OUTSIDE PERPENDICULAR TO SHORING WALL.
3" LATERALLY
1" IN ANY DIRECTION

38. LAGGING: PRECAST CONCRETE LAGGING SHALL BE INSTALLED IN ALL AREAS. VOIDS BETWEEN LAGGING AND SOIL SHALL BE BACKFILLED WITH PEA GRAVEL OR LEAN MIX FILL. DRAINAGE BEHIND THE WALL MUST BE MAINTAINED. IT IS CONTRACTOR'S RESPONSIBILITY TO LIMIT THE AMOUNT OF EXPOSED SOIL WITHOUT LAGGING TO AVOID LOSS OF SOIL. MAXIMUM HEIGHT OF 4 FEET IS RECOMMENDED. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO AVOID GROUND LOSS DURING EXCAVATION.

TIEBACK CONSTRUCTION

39. CONTRACTOR SHALL FOLLOW THE STRICT RECOMMENDATIONS OF THE SOILS ENGINEER ON THE APPROPRIATE STRESSING, LOAD TESTING AND ACCEPTANCE OF ALL TIEBACKS, INCLUDING THE PTI DC-35.1, "RECOMMENDATIONS FOR PRESTRESSED ROCK AND SOIL ANCHORS". THE CONTRACTOR SHALL WORK CLOSELY WITH THE SOILS ENGINEER IN ORDER TO DETERMINE THE MOST SUITABLE METHODS TO BE USED WITHIN THE FRAMEWORK OF THE SPECIFICATIONS.

40. ROCK AND SOIL ANCHORS SHALL BE STRESS RELIEVED OR LOW RELAXATION SEVEN WIRE STRAND CONFORMING TO ASTM A-416. TENDON PROPERTIES SHALL BE AS FOLLOWS:

	0.6" DIAMETER	SEVEN STRAND	WIRE
0.217 SQUARE INCHES			
ULTIMATE STRENGTH (fpu)		270 KSI (58.6 KIPS)	
MAX. TEMP. STRESS TO OVERCOME FRICTION		216 KSI (46.9 KIPS)	
ANCHORING STRESS		162 KSI (35.2 KIPS)	

41. TENDONS SHALL BE ENCASED IN SLIPPAGE SHEATHING CONSTRUCTED OF DURABLE WATERPROOF POLYETHYLENE PLASTIC TUBING (0.04 INCHES THICK MIN.) CAPABLE OF PREVENTING THE PENETRATION OF CEMENT PASTE AND SHALL CONTAIN A RUST INHIBITING GREASE COATING MEETING THE REQUIREMENTS OF THE POST TENSION INSTITUTE "SPECIFICATION FOR UNBONDED SINGLE STRAND TENDONS".

42. DWYDAG THREADED BAR SHALL CONFORM TO ASTM SPECIFICATION A-722 FOR HOT ROLLED, PROOF STRESSED ALLOY STEEL, fpu = 150 KSI.

43. TIEBACK ANCHOR DESIGN IS BASED ON A 6" DIAMETER PRESSURE GROUTED ANCHOR. CONTRACTOR MAY USE POST GROUTED (HIGH PRESSURE) ANCHORS AT HIS OPTION SUBJECT TO APPROVAL OF THE GEOTECHNICAL ENGINEER. SUCH ANCHORS SHALL REQUIRE VERIFICATION TESTING PRIOR TO THE START OF PRODUCTION ANCHORS. TESTING OF INSTALLED TIEBACK ANCHORS IS REQUIRED. MINIMUM ANCHOR LOADED LENGTH IS 10 FEET, UNLESS NOTED OTHERWISE.

44. TIEBACK INSTALLATION AND PRESTRESSING SHALL BE COMPLETED PRIOR TO EXCAVATING MORE THAN TWO FEET BELOW TIEBACK LEVEL.

45. THE TIEBACK ANCHORS ARE TO BE INSTALLED IN A MANNER TO CONTROL GROUND LOSS DURING TIEBACK INSTALLATION. THE HOLES FOR TIEBACK ANCHORS MAY NOT BE LEFT UNGROUTED OVERNIGHT. IF CONNECTION BETWEEN ADJACENT HOLES IS OBSERVED DURING INSTALLATION IN THE FORM OF COMPRESSED AIR BEING EJECTED FROM ADJACENT DRILLED HOLES, THE CONTRACTOR MUST STOP DRILLING ACTIVITIES AND MOVE AWAY FROM PREVIOUSLY DRILLED HOLES TO PREVENT THE LOSS OF SOIL. IF ANY INDICATION OF GROUND LOSS IS OBSERVED DURING TIEBACK INSTALLATION, THE CONTRACTOR SHALL BE PREPARED TO PROVIDE TEMPORARY CASING DURING THE INSTALLATION OF THE TIEBACK ANCHORS AND ALLOW 24 HOURS BETWEEN THE TIME OF INSTALLATION OF ADJACENT TIEBACK ANCHORS. ALTERNATIVELY, THE CONTRACTOR MAY NEED TO ADVANCE THE HOLES USING CONTINUOUS FLIGHT AUGER DRILLING EQUIPMENT TO AVOID THE USE OF COMPRESSED AIR FOR REMOVAL OF THE SOIL CUTTINGS.

46. TEMPORARY TIEBACKS SHALL REMAIN STRESSED UNTIL ALL PERMANENT STRUCTURE IS IN PLACE AND SHALL BE DE-STRESSED UPON THE COMPLETION OF THE PROJECT.

47. TIEBACK TESTING: THE TIEBACKS SHALL BE EVALUATED BY PERFORMING PERFORMANCE TESTS ON 5 PERCENT OF THE TIEBACKS INSTALLED WITH A MINIMUM OF TWO PERFORMANCE TESTS PERFORMED FOR THE PROJECT AND AT LEAST ONE IN EACH SOIL TYPE ENCOUNTERED. THE REMAINING TIEBACKS SHALL BE PROOF TESTED.

PERFORMANCE TESTS: THE PERFORMANCE TESTS ARE COMPLETED BY LOADING THE TIEBACK ANCHORS WITH A HYDRAULIC RAM AND MONITORING ITS ELONGATION. THE FOLLOWING LOAD SEQUENCE SHALL BE USED FOR PERFORMANCE TESTING, WHERE P IS EQUAL TO THE DESIGN LOAD FOR THE ANCHOR AND AL IS EQUAL TO THE ALIGNMENT LOAD NECESSARY TO MAINTAIN THE ALIGNMENT OF STRESSING AND TEST EQUIPMENT.

PERFORMANCE TEST LOADING SEQUENCE - AL, 0.25P, 0.5P, 0.75P, 1.0P, 1.25P, 1.5P, 1.75P, 2.0P

EACH LOAD SHALL BE HELD UNTIL MOVEMENT STABILIZES, WITH A FIVE MINUTE HOLD TIME. A CREEP TEST SHALL BE PERFORMED AT THE 2.0P LOAD INCREMENT. AT THE 2.0P LOAD INCREMENT, THE LOAD SHALL BE MAINTAINED CONSTANT FOR 30 MINUTES. ELONGATION MEASUREMENTS SHALL BE TAKEN AT 0, 1, 2, 3, 5, 10, 20, AND 30 MINUTES.

PROOF TESTS: ALL TIEBACKS NOT PERFORMANCE TESTED SHALL BE PROOF TESTED. THE FOLLOWING LOAD SEQUENCE SHALL BE USED FOR PROOF TESTING, WHERE P IS EQUAL TO THE DESIGN LOAD FOR THE ANCHOR AND AL IS EQUAL TO THE ALIGNMENT LOAD NECESSARY TO MAINTAIN THE ALIGNMENT OF STRESSING AND TEST EQUIPMENT.

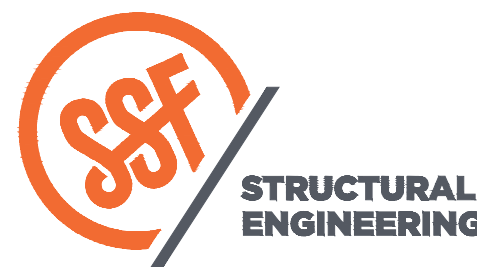
PROOF TEST LOADING SEQUENCE - AL, 0.25P, 0.5P, 0.75P, 1.0P, 1.25P, 1.5P

EACH LOAD SHALL BE HELD UNTIL MOVEMENT STABILIZES, WITH A ONE MINUTE MINIMUM HOLD TIME. A CREEP TEST SHALL BE PERFORMED AT THE 1.5P LOAD INCREMENT. AT THE 1.5P INCREMENT, THE LOAD SHALL BE MAINTAINED CONSTANT FOR 5 MINUTES. ELONGATION MEASUREMENTS SHALL BE TAKEN AT 0, 0.5, 1, 3, AND 5 MINUTES. IF THE DIFFERENCE BETWEEN THE 0.5 MINUTE AND THE 5 MINUTE READING IS MORE THAN 0.08 INCHES, THE LOAD SHALL BE HELD FOR ANOTHER 45 MINUTES.

AT THE COMPLETION OF A SUCCESSFUL LOAD TEST, THE ANCHOR LOAD SHALL BE REDUCED TO 1.0P AND LOCKED OFF.

THE ACCEPTANCE CRITERIA FOR THE ANCHOR TESTS ARE AS FOLLOWS:

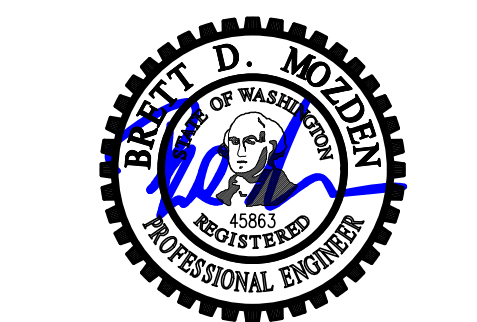
1. THE TOTAL MOVEMENT MEASURED AND THE ANCHOR HEAD SHALL BE GREATER THAN 80 PERCENT OF THE THEORETICAL ELASTIC ELONGATION OF THE UNBONDED ANCHOR LENGTH.
2. THE TOTAL MOVEMENT MEASURED AT THE ANCHOR HEAD SHALL BE LESS THAN THE THEORETICAL ELASTIC ELONGATION OF THE UNBONDED ANCHOR LENGTH MEASURED FROM THE HEAD OF THE JACK TO THE CENTER OF THE INSTALLED BOND LENGTH.
3. PERFORMANCE TESTS: THE CREEP MOVEMENT MEASURED AT THE ANCHOR HEAD SHALL BE LESS THAN 0.04 INCHES ELONGATION OCCURRING BETWEEN THE 1 MINUTE AND 10 MINUTE READING OR THE TEST SHALL BE CONTINUED FOR 30 MINUTES WITH THE ACCEPTING CRITERIA OF LESS THAN 0.08 INCHES ELONGATION OCCURRING BETWEEN THE 3 MINUTE AND 30 MINUTE READINGS. THE TEST SHALL BE CONTINUED UNTIL THE FINAL LOG CYCLE ELONGATION IS LESS THAN 0.08 INCHES.
4. PROOF TESTS: THE CREEP MOVEMENT MEASURED AT THE ANCHOR HEAD SHALL BE LESS THAN 0.08 INCHES BETWEEN THE 1 MINUTE AND 10 MINUTE READINGS OR THE TEST SHALL BE EXTENDED TO 30 MINUTES. THE 0.08 INCHES CRITERIA IS USED BETWEEN THE 3 MINUTE AND 30 MINUTE READINGS.



2324 Third Avenue - Suite 100 - Seattle, WA 98101
P: 206-443-6272 sseengineers.com

934 Broadway - Tacoma, WA 98402
P: 253-884-9470 sseengineers.com

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DESIGN:	HAA, SRW
DRAWN:	NHD
CHECKED:	SRW
APPROVED:	BDM

REVISIONS

NO.	DESCRIPTION

JURISDICTIONAL APPROVAL STAMP



PROJECT TITLE

8480 Residence

8480 85th Ave SE
Mercer Island, WA 98040

ARCHITECT:

Brandt Design Group
66 Bell Street, Unit 1
Seattle, WA 98121
PH: 206.239.0850
brandtdesigninc.com

ISSUE:

PERMIT

SHEET TITLE:

General Shoring
Notes

SCALE:

-

DATE:

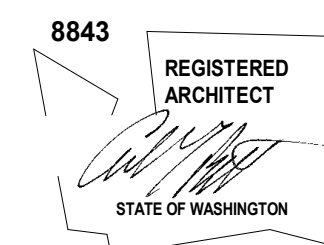
March 11, 2022

PROJECT NO:

01519-2021-09

SHEET NO:

SH1.1



8480 RESIDENCE

8480 85TH AVE SE
MERCER ISLAND, WA 98040
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PERMIT SUBMITTAL SET

DATE: 03.11.22

SHEET SIZE: E (30X42)

REVISIONS
NO. DATE:

DRAWN BY: DD
CHECKED BY: KM

DEMOLITION SITE
PLAN

SCALE: 1" = 10'-0"

AD101

DEDICATED
APPROVAL
STAMP SPACE

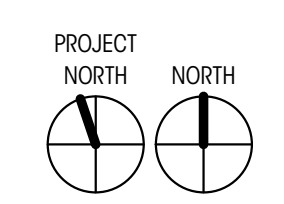


LEGEND	
EL=148.5' (+0'-0") MAIN LEVEL FIN. FLR.	ELEVATION DATUM
	ORDINARY HIGH WATER MARK
	PROPERTY LINE
	SETBACK LINE
	ROOF OVERHANG
	CONTOUR MAJOR
	CONTOUR MINOR
	(E) SITE WALL TO REMAIN
	(E) PATIO / WALKWAYS / CONCRETE DRIVE / PAVING TO REMAIN
	(E) SITE ELEMENTS TO BE DEMOLISHED
	(E) HOUSE FOOTPRINT TO BE DEMOLISHED
	(E) ROCKERY TO REMAIN
	STEEP SLOPE HAZARD AREA PER SURVEY
	(E) TREE TO REMAIN
	(E) TREE TO BE REMOVED

NOTES

- PROPERTY LINE METES & BOUNDS ARE SHOWN PER TOPOGRAPHIC SURVEY BY TERRANE DATED 02/19/21
- TREES AND CONTOURS ARE BASED ON TOPOGRAPHIC SURVEY BY TERRANE DATED 02/19/21

1 SITE DEMOLITION PLAN
1" = 10'-0"



8480 RESIDENCE

8480 85TH AVE SE
MERCER ISLAND, WA 98040
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PERMIT SUBMITTAL SET

DATE: 03.11.22

SHEET SIZE: E (30X42)

REVISIONS
NO. DATE:

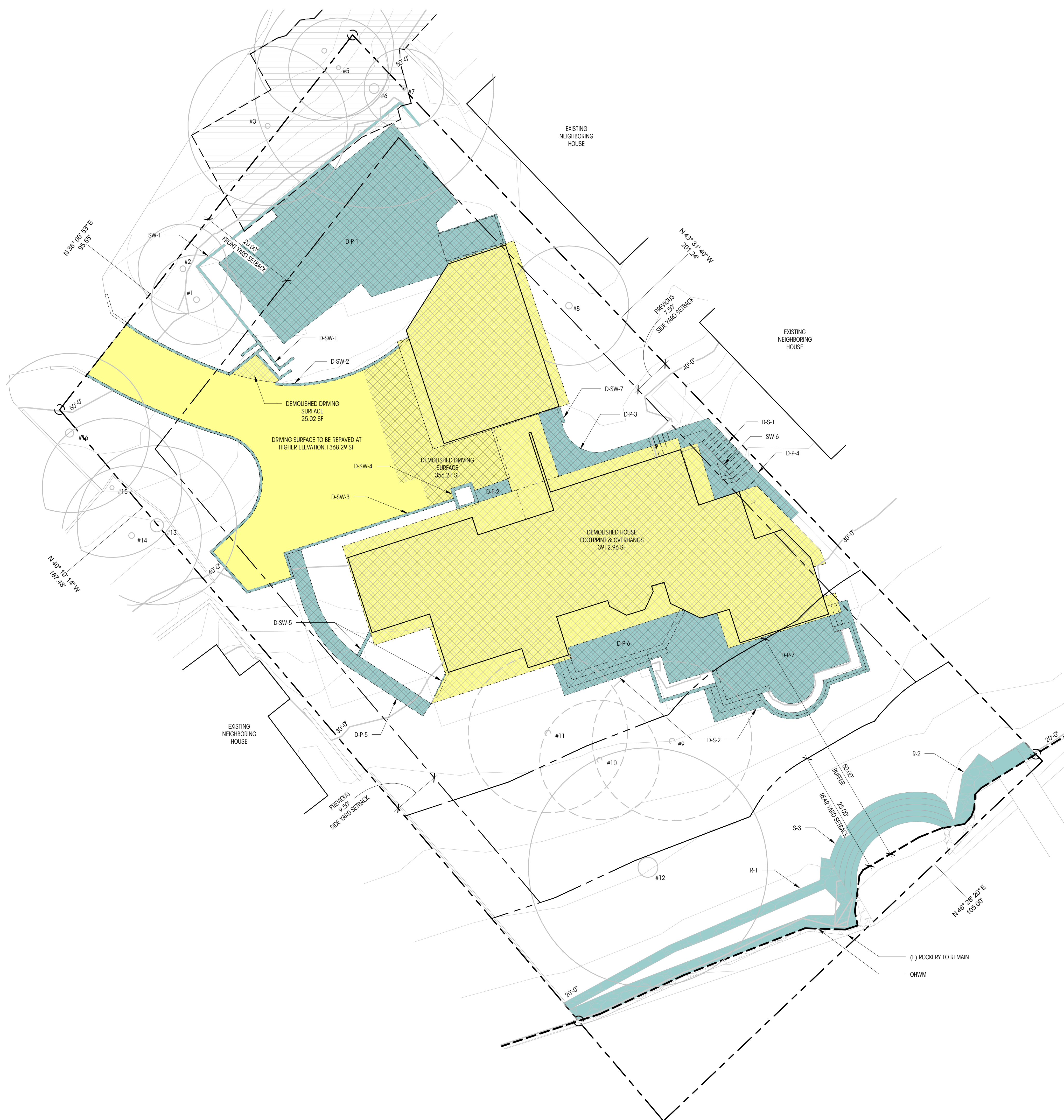
DRAWN BY: DD
CHECKED BY: KM

DEMOLITION LOT
COVERAGE SITE
PLAN

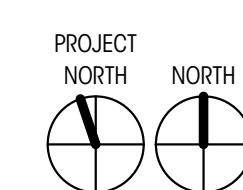
SCALE: 1" = 10'-0"

AD103

DEDICATED
APPROVAL
STAMP SPACE



1 SITE DEMOLITION PLAN - LOT COVERAGE & HARDSCAPE CALCULATION
1" = 10'-0"



CALCULATIONS

LOT COVERAGE TO REMAIN

DRIVING SURFACES	1368.29 SF
TOTAL	1368.29 SF

LOT COVERAGE TO BE DEMOLISHED

ROOF, GARAGE, AND OVERHANGS	3912.96 SF
DRIVING SURFACES	381.23 SF
TOTAL	4294.19 SF

HARDSCAPE TO REMAIN

STAIRS	S-3	177.70 SF
ROCKERIES	R-1	301.52 SF
	R-2	86.89 SF
SITE WALLS	SW-1	38.19 SF
	SW-6	5.46 SF
TOTAL		609.76 SF

HARDSCAPE TO BE DEMOLISHED

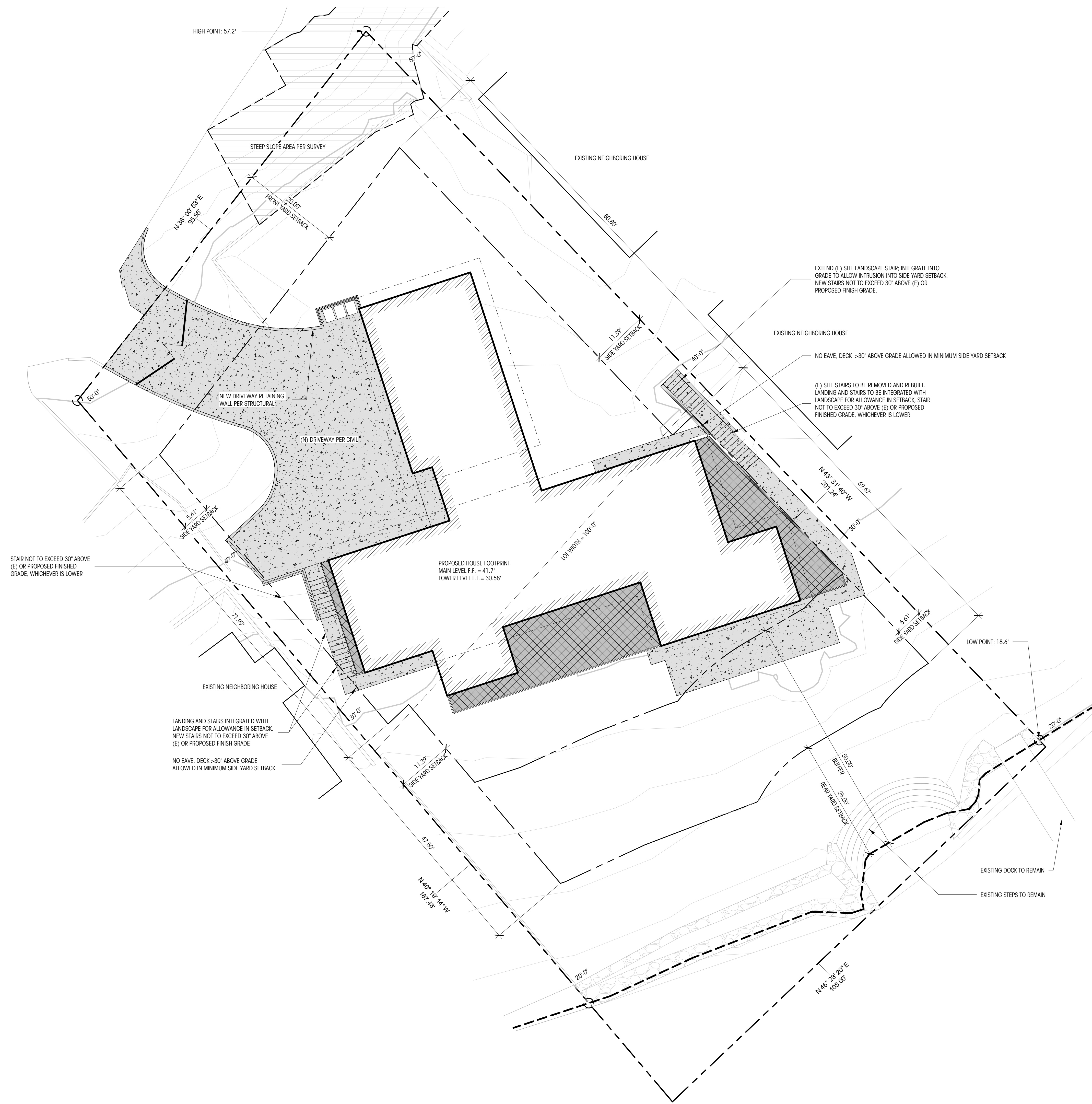
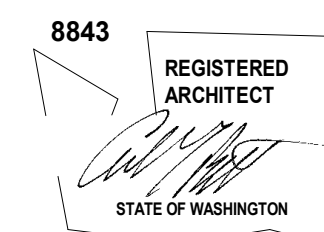
STAIRS	D-S1	94.76 SF
	D-S2	226.01 SF
PATIOS / WALKWAYS	D-P-1	1161.2 SF
	D-P-2	18.08 SF
	D-P-3	91.00 SF
	D-P-4	68.11 SF
	D-P-5	130.03 SF
	D-P-6	109.34 SF
	D-P-7	412.52 SF
SITE WALLS	D-SW-1	28.69 SF
	D-SW-2	13.43 SF
	D-SW-3	61.09 SF
	D-SW-4	9.19 SF
	D-SW-5	4.39 SF
	D-SW-7	2.17 SF
TOTAL		2430.01 SF

LEGEND

	ELEVATION DATUM		LOT COVERAGE TO REMAIN		(E) TREE TO REMAIN
	MAIN LEVEL FIN. FLR.		DEMOLISHED LOT COVERAGE		(E) TREE TO BE REMOVED
	ORDINARY HIGH WATER MARK		HARDSCAPE TO REMAIN		
	PROPERTY LINE		DEMOLISHED HARDSCAPE		
	SETBACK LINE		(E) ROCKERY TO REMAIN		STEEP SLOPE HAZARD AREA PER SURVEY
	ROOF OVERHANG				
	CONTOUR MAJOR				
	CONTOUR MINOR				

NOTES

- PROPERTY LINE METES & BOUNDS ARE SHOWN PER TOPOGRAPHIC SURVEY BY TERRACE DATED 02/19/21
- TREES AND COUNTOURS ARE BASED ON TOPOGRAPHIC SURVEY BY TERRACE DATE 02/19/21



LEGEND		NOTES	
El. = 148.5' (+0'-0") MAIN LEVEL FIN. FLR.	ELEVATION DATUM	(N) HOUSE FOOTPRINT	SPOT ELEVATION
	ORDINARY HIGH WATER MARK	(E) PATIO / WALKWAYS / CONCRETE DRIVE / PAVING TO REMAIN	AVERAGE BUILDING ELEVATIONS
	PROPERTY LINE	(N) PATIO / WALKWAYS / CONCRETE DRIVE / PAVING / SITE WALLS	STEEP SLOPE HAZARD AREA PER SURVEY
	SETBACK LINE	(N) WATERPROOF DECK	
	ROOF OVERHANG	(E) ROCKERY TO REMAIN	
	TREE PROTECTION FENCE		
	CONTOUR MAJOR		
	CONTOUR MINOR		

1. PROPERTY LINE METES & BOUNDS ARE SHOWN PER TOPOGRAPHIC SURVEY BY TERRANE DATED 02/19/21

2. TREES AND CONTOURS ARE BASED ON TOPOGRAPHIC SURVEY BY TERRANE DATE 02/19/21

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8480 85TH AVE SE
MERCER ISLAND, WA 98040
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PERMIT SUBMITTAL SET

DATE: 03.11.22
SHEET SIZE: E (30X42)

REVISIONS
NO. DATE:

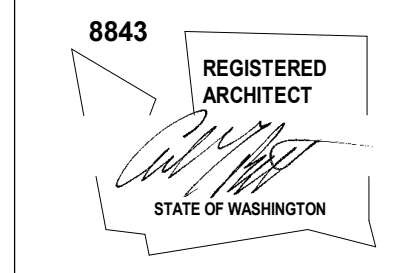
DRAWN BY: DD
CHECKED BY: KM

SETBACK SITE PLAN

SCALE: 1" = 10'-0"

A102

DEDICATED APPROVAL STAMP SPACE



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DATE: 03.11.22

SHEET SIZE: E (30X42)

REVISIONS
NO. DATE:

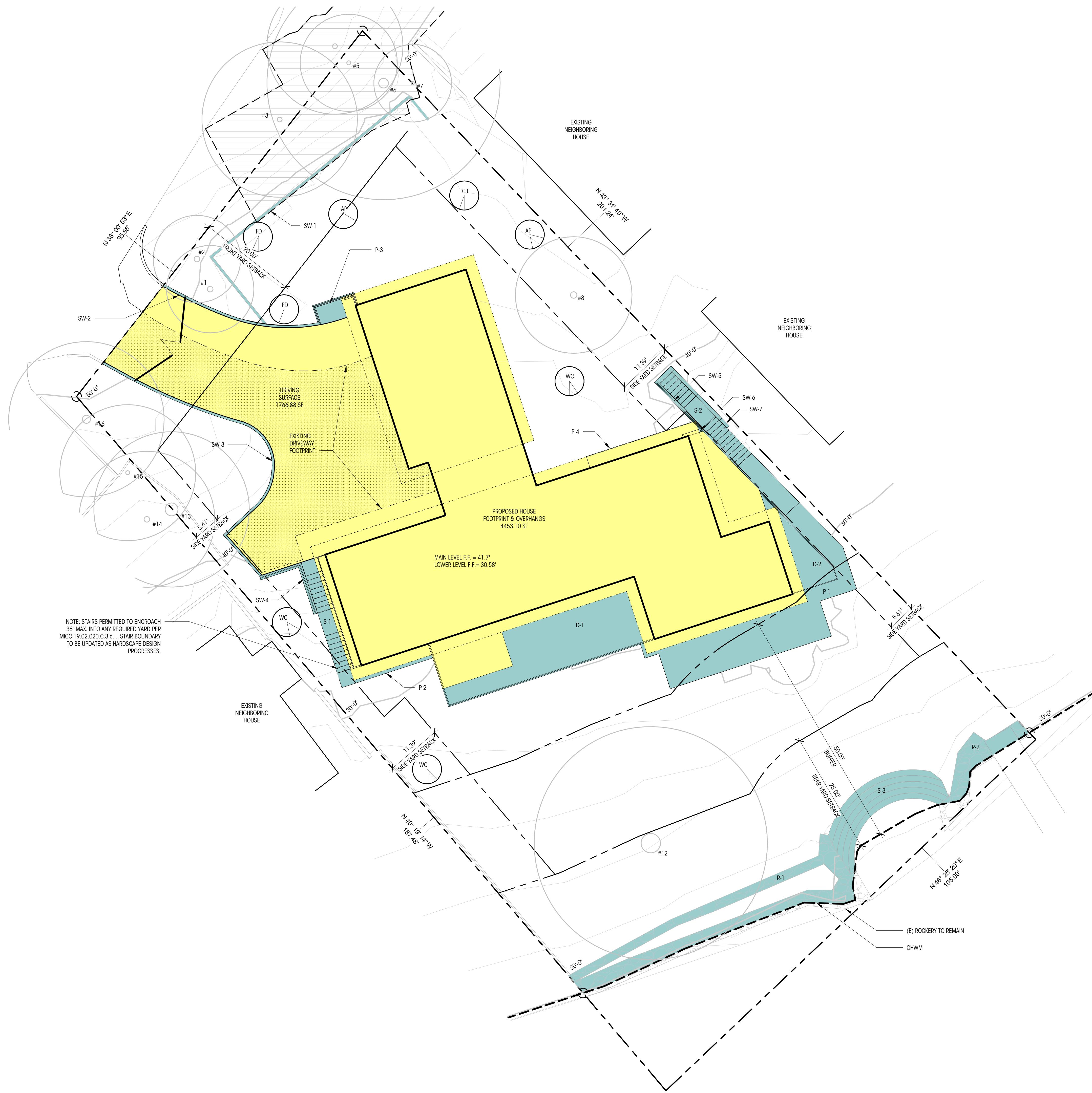
DRAWN BY: DD
CHECKED BY: KM

PROPOSED LOT
COVERAGE SITE
PLAN

SCALE: 1" = 10'-0"

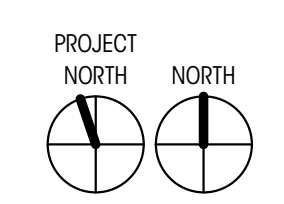
A103

DEDICATED
APPROVAL
STAMP SPACE



NOTE: STAIRS PERMITTED TO ENCRACH 36" MAX. INTO ANY REQUIRED YARD PER MICC 19.02.020 C.3.a.1. STAIR BOUNDARY TO BE UPDATED AS HARDSCAPE DESIGN PROGRESSES.

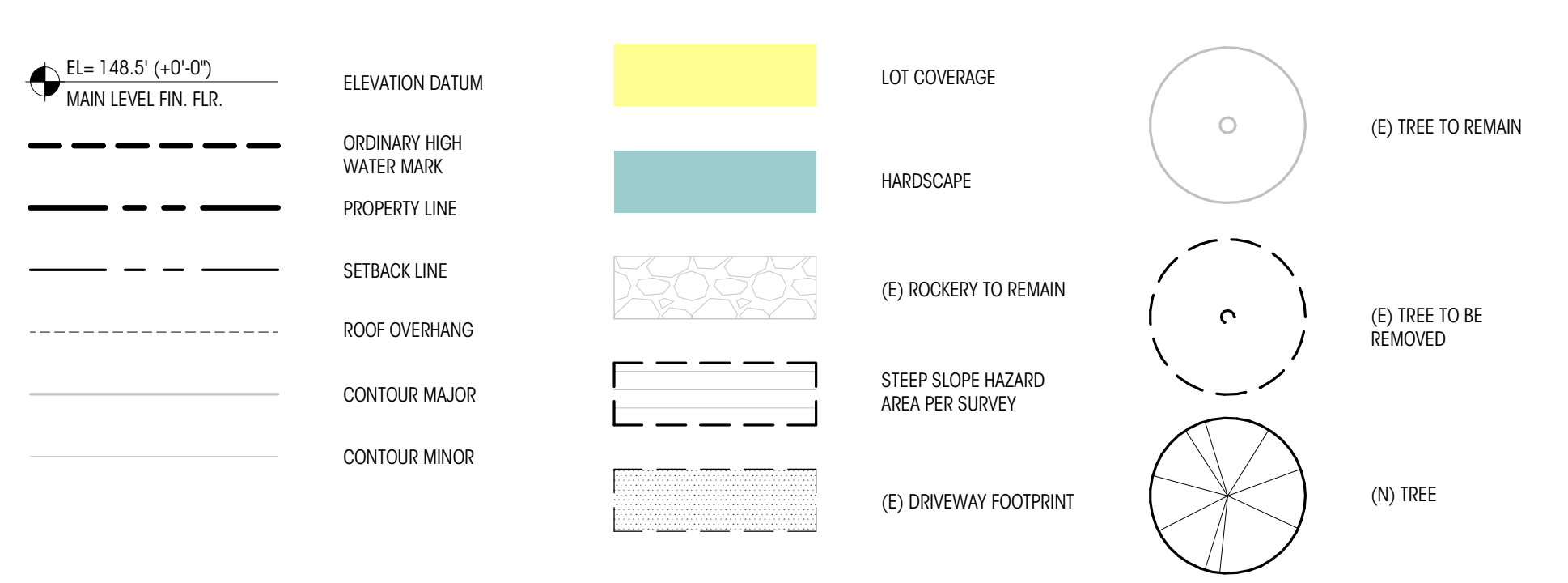
1 SITE PLAN - LOT COVERAGE & HARDSCAPE CALCULATION
1" = 10'-0"



CALCULATIONS

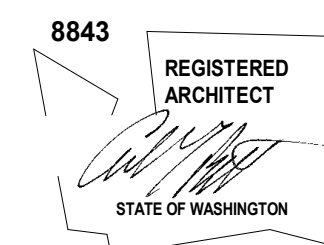
LOT COVERAGE	
ROOF, GARAGE, AND OVERHANGS	4453.10 SF
DRIVING SURFACES	1766.88 SF
TOTAL	6219.98 SF
ALLOWED (35% OF LOT AREA)	18,231 SF * 0.35 = 6380.85 SF
HARDSCAPE	
(E) TO REMAIN	
STAIRS	S-3 177.70 SF
ROCKERIES	R-1 301.52 SF R-2 86.89 SF
SITE WALLS	SW-1 38.19 SF SW-6 5.46 SF
SUBTOTAL	609.76 SF
(N) PROPOSED	
DECKS	D-1 363.51 SF D-2 77.01 SF
STAIRS	S-1 67.53 SF S-2 87.18 SF
PATIOS / WALKWAYS	P-1 455.26 SF P-2 19.97 SF P-3 23.02 SF P-4 2.00 SF
SITE WALLS	SW-2 22.85 SF SW-3 36.10 SF SW-4 15.96 SF SW-5 8.68 SF SW-7 11.50 SF
SUBTOTAL	1,190.57 SF
TOTAL	609.76 SF + 1,190.57 SF = 1,800.33 SF
ALLOWED (9% OF LOT AREA)	18,231 SF * 0.09 = 1,640.79 SF
PER 19.02.020 F.3.b.ii. HARDSCAPE IMPROVEMENTS ARE PERMITTED IN THE MAXIMUM LOT COVERAGE AREA	
REMAINING LOT COVERAGE	6380.85 SF - 6219.98 SF = 160.87 SF
TOTAL ALLOWABLE HARDSCAPE	1,640.79 SF + 160.87 SF = 1,801.66 SF

LEGEND

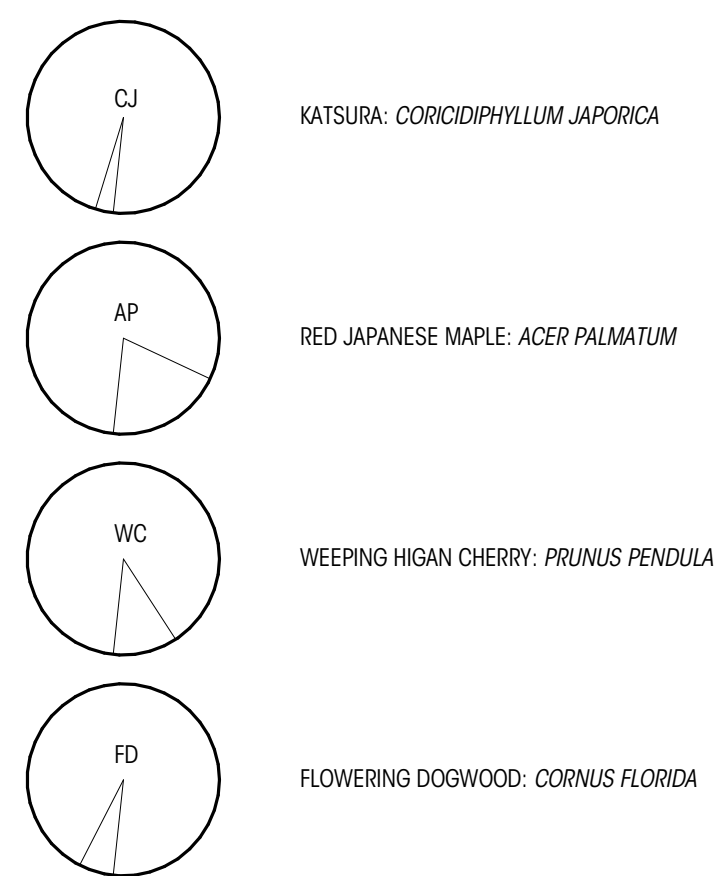


NOTES

- PROPERTY LINE METES & BOUNDS ARE SHOWN PER TOPOGRAPHIC SURVEY BY TERRANE DATED 02/19/21
- TREES AND COUNTOURS ARE BASED ON TOPOGRAPHIC SURVEY BY TERRANE DATE 02/19/21



REPLACEMENT TREE LEGEND



LEGEND

SHEET REFERENCE NOTES:

- SEE SHEET A101 FOR CRITICAL AREA & BUILDING PAD DESIGNATION + SETBACK DIMENSIONS
- SEE SHEET A102 FOR EXCAVATION PLAN HW/T.O.W. & B.O.F. HEIGHTS FOR SITE RETAINING WALLS
- SEE SHEET A104 FOR TREE RETENTION / REPLACEMENT PLAN
- CONTINUOUS SPECIAL INSPECTIONS BY GEOTECHNICAL ENGINEER DURING EXCAVATION AND SHORING INSTALLATION SHALL BE PROVIDED.

GENERAL PLAN NOTES:

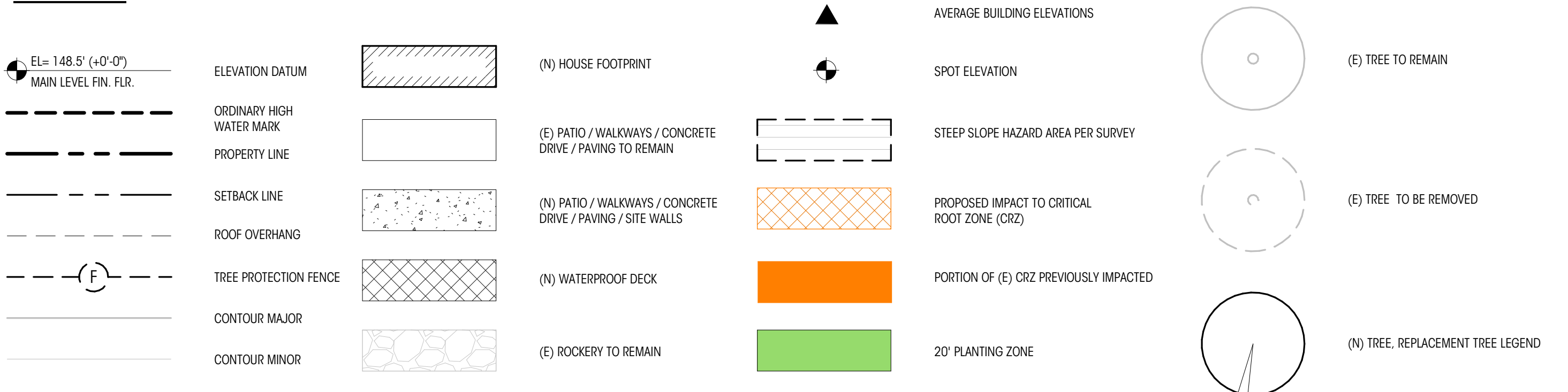
- ALL DIMENSIONS AT EXTERIOR WALLS TO FACE OF FRAMING AT EXT. FACE OF WALL AND TO FACE OF FRAMING AT INTERIOR WALLS
- ALL DIMENSIONS AT INTERIOR WALLS ARE TO FACE OF FRAMING
- ALL DIMENSIONS AT KITCHEN TO EDGE OF COUNTERTOPS, U.N.D.

Per MICC 19.02.020(F)(3)(d), the project shall remove 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, from required landscaping areas established pursuant to subsection (F)(3)(c) of this section. New landscaping associated with new single-family home shall not incorporate any weeds identified on the King County Noxious Weed list, as amended. Provided, that removal shall not be required if the removal will result in increased slope instability or risk of landslide or erosion.

TREE RETENTION SCHEDULE

TREE #	OFFSITE	REMAIN	REMOVE	LARGE/REGULATED >10'	SIZE EXCEPTIONAL >24"	EXCEPTIONAL	DBH (INCHES)	SPECIES	SPECIES	HEALTH	COMMENT	REPLACEMENT
1		X					3.5/5	PACIFIC DOGWOOD	CORNUS NUTALLI	POOR	NOT LOCATED ON SURVEY	
2		X					7.5	NOBLE FIR	ABIES PROCERA	FAIR	NOT LOCATED ON SURVEY	
3	X	X		X			14	DOUGLAS FIR	PSUEDOTSUGA MENZIESII	EXCELLENT		
4	X	X		X			15	DOUGLAS FIR	PSUEDOTSUGA MENZIESII	GOOD		
5		X		X			11	DOUGLAS FIR	PSUEDOTSUGA MENZIESII	FAIR		
6	X	X		X	X		27	BIG LEAF MAPLE		POOR		
7	X						8	GRAND FIR	ABIES GRANDIS	FAIR		
8	X			X			17	WESTERN RED CEDAR	THUJA PLICATA	GOOD		
NP			X								STUMPY PREVIOUSLY REMOVED	2:1
9			X				17	COLUMNAR NORWAY MAPLE	ACER PLATANOIDES 'COLUMNARE'	FAIR		2:1
10			X	X			10	COLUMNAR NORWAY MAPLE	ACER PLATANOIDES 'COLUMNARE'	FAIR		2:1
11			X	X			14	COLUMNAR NORWAY MAPLE	ACER PLATANOIDES 'COLUMNARE'	FAIR		2:1
12		X		X	X	X	50	WEeping WILLOW	SALIX BABYLONICA	FAIR		
13		X		X	X		32	BIG LEAF MAPLE		FAIR		
14	X	X		X			14	DOUGLAS FIR	PSUEDOTSUGA MENZIESII	FAIR		
15	X	X		X			10.5	DOUGLAS FIR	PSUEDOTSUGA MENZIESII	FAIR		
16	X	X		X			22	DOUGLAS FIR	PSUEDOTSUGA MENZIESII	GOOD		

LEGEND



CRITICAL ROOT ZONE CALCULATION
MAPLE TREE CRITICAL ROOT ZONE = +/- 2830 SF; SEE ARBORIST ADDENDUM
TOTAL AREA BASED ON A +/- 30' RADIUS = 2 830 SF
2830 (317+200) = 2313 SF ASSUMED CRZ
25% OF 2,313 = 578 SF
AREA RAISED = +/- 380 SF (+/- 16.4% OF REMAINING CRZ)

TREE RETENTION CALCULATION:

11 ONSITE TREES
30% RETENTION REQUIRED = (3.3) 4 TREES
PROPOSED REMOVAL = 3 TREES
PROPOSED RETAINANCE = 8 TREES (<4 REQUIRED)

IMPERVIOUS COVERAGE IN THE SHORELINE SETBACKS

IMPERVIOUS COVERAGE PERMITTED BETWEEN OHWM TO 25'	10% COVERAGE
TOTAL AREA BETWEEN OHWM TO 25'	2747 SF (1.01%)
ALLOWED COVERAGE PERMITTED	
EXISTING BULKHEAD, STONE STEPS, ROCKERY (NO CHANGE PROPOSED)	707.7 SF (25.8%)
LEGAL NON-CONFORMING IMPERVIOUS ALLOWED, CREATED UNDER PERMIT 0310-158	
IMPERVIOUS COVERAGE PERMITTED BETWEEN 25' - 50'	30% COVERAGE
TOTAL AREA BETWEEN 25' - 50'	2,654.5 SF
ALLOWED COVERAGE PERMITTED	796.4 SF (30%)
TOTAL EXISTING TO BE DEMOLISHED	421.5 SF (15.9%)
TOTAL ADDITIONAL COVERAGE PROPOSED	246.3 SF (9%)

NOTES

- PROPERTY LINE METES & BOUNDS ARE SHOWN PER TOPOGRAPHIC SURVEY BY TERRANE DATED 02/19/21
- TREES AND CONTOURS ARE BASED ON TOPOGRAPHIC SURVEY BY TERRANE DATE 02/19/21
- SEE SHEETS A1010 & A1001 FOR ADDITIONAL PROJECT DATA & SQUARE FOOTAGE CALCULATIONS.
- SEE CIVIL PLANS FOR SITE PROTECTION (TESC), STORM WATER CONTROL, AND GRADING.
- (19.13.020.a) LEGAL NONCONFORMING USES AND STRUCTURES MAY CONTINUE.

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PERMIT SUBMITTAL SET

DATE: 03.11.22
SHEET SIZE: E (30X42)
REVISIONS
NO. DATE:

DRAWN BY: DD
CHECKED BY: JH
PROJECT: SHORELINE RESTORATION & TREE RETENTION / REPLACEMENT PLAN
SCALE: 1" = 10'-0"

A104

DEDICATED APPROVAL STAMP SPACE

SHORELINE RESTORATION PLAN LEGEND

VEGETATION	SPECIES COMMON NAME	SPECIES LATIN NAME
	DUNEGRASS	ELYMUS MOLIS
	DOUGLAS ASTER	ASTER SUBSPICATUS
	BROAD-LEAVED STONECROP	SEDUM SPATHULIFOLIUM
	BEACH STRAWBERRY	FRAGARIA CHILOENSIS
	LYNGBYE'S SEDGE	CAREX (LYNGBYE)
	TUFTED HAIRGRASS	DESCHAMPSIA CESPYTOSA
	THRIFT, SEA PINK	ARMERIA MARITIMA
	HENDERSON'S CHECKER MALLOW	SIDALCEA HENDERSONII
	WEeping BLUE ATLAS CEDAR	CEDRUS LIBANI GLAUCOPENDULA
	JAPANESE BLACK PINE TREES	PINUS THUNBERGII
	(E) TREE TO REMAIN	
	(E) TREE TO BE REMOVED	

LEGEND

	PROPERTY LINE		(E) STONE STEPS TO REMAIN
	SETBACK LINE		20' PLANTING ZONE
	CONTOUR MAJOR		(E) ROCKERY TO REMAIN
	CONTOUR MINOR		
	ORDINARY HIGH WATER MARK		

NOTES

- PROPERTY LINE METES & BOUNDS ARE SHOWN PER TOPOGRAPHIC SURVEY BY TERRANE DATED 02/19/21
- TREES AND CONTOURS ARE BASED ON TOPOGRAPHIC SURVEY BY TERRANE DATE 02/19/21
- SEE SHEETS A0100 & A1000 FOR ADDITIONAL PROJECT DATA & SQUARE FOOTAGE CALCULATIONS.
- SEE CIVIL PLANS FOR SITE PROTECTION (TESC), STORM WATER CONTROL, AND GRADINGS.
- (19.13.020-0) LEGAL NONCONFORMING USES AND STRUCTURES MAY CONTINUE.
- MAXIMUM OF 10% HARDSCAPE AND LOT COVERAGE PERMITTED BETWEEN 0 AND 25 FEET FROM OHWM.
- MAXIMUM OF 30% HARDSCAPE AND LOT COVERAGE PERMITTED BETWEEN 25 AND 50 FEET FROM OHWM.

PER MDC 19.02.020(F)(3)(D), THE PROJECT SHALL REMOVE JAPANESE KNOTWEED (POLYGONUM CUSPIDATUM) AND REGULATED CLASS A, REGULATED CLASS B, AND REGULATED CLASS C WEEDS IDENTIFIED ON THE KING COUNTY NOXIUS WEED LIST, AS AMENDED, FROM REQUIRED LANDSCAPING AREAS ESTABLISHED PURSUANT TO SUBSECTION (F)(3)(A) OF THIS SECTION. NEW LANDSCAPING ASSOCIATED WITH NEW SINGLE-FAMILY HOMES SHALL NOT INCORPORATE ANY WEEDS IDENTIFIED ON THE KING COUNTY NOXIUS WEED LIST, AS AMENDED, PROVIDED THAT REMOVAL SHALL NOT BE REQUIRED IF THE REMOVAL WILL RESULT IN INCREASED SLOPE INSTABILITY OR RISK OF LANDSLIDE OR EROSION.



1 SHORELINE PLANTING PLAN
1/4" = 1'-0"

PLANTING SQUARE FOOTAGE DATA 19.13.050(K)(4)(I)

20' PLANTING ZONE	1,441.32 SF
NATIVE VEGETATION COVERAGE REQ'D	1,081 SF (75%)
PROPOSED NATIVE VEGETATION COV.	1,081 SF

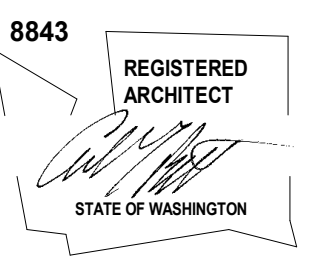
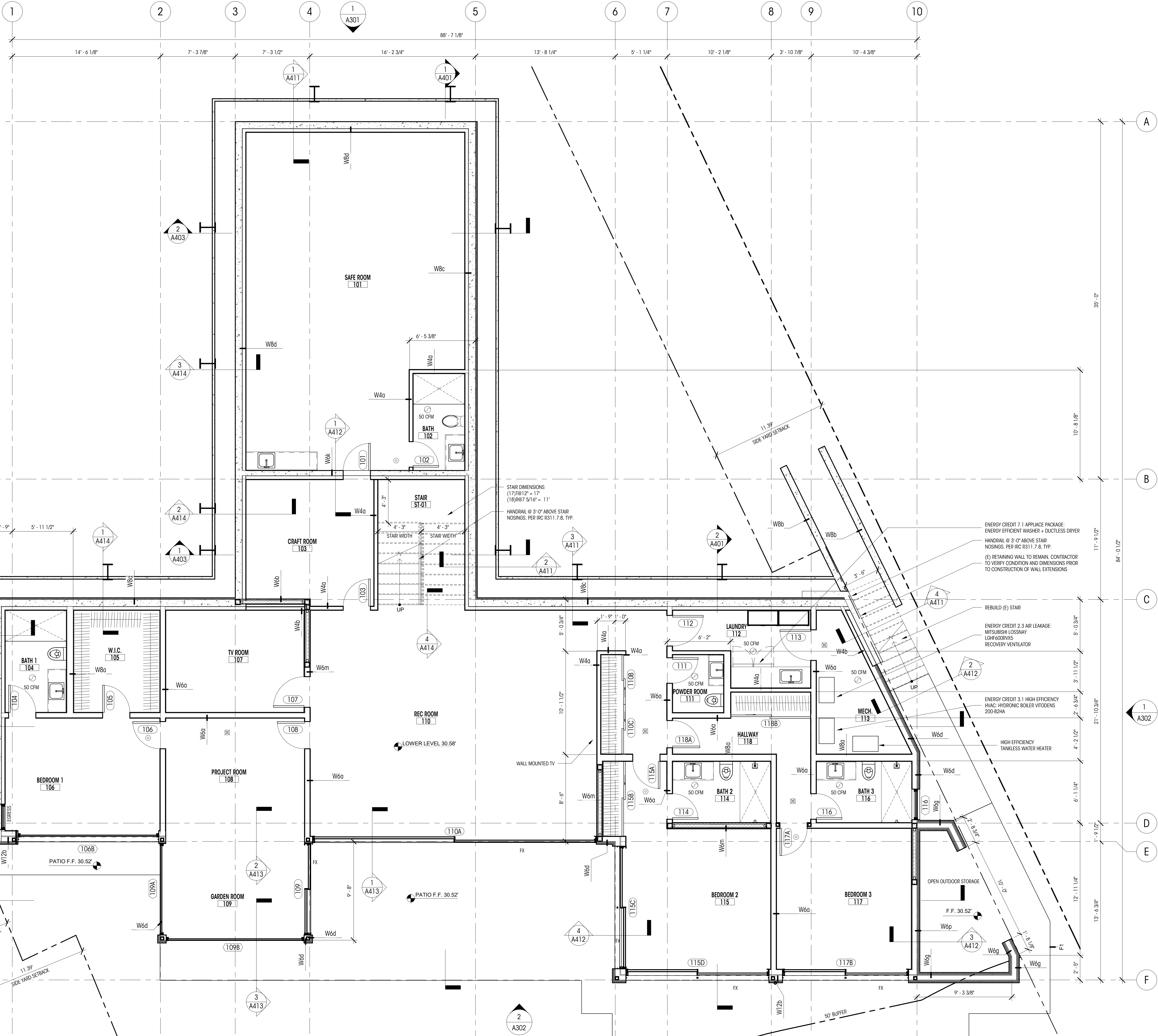
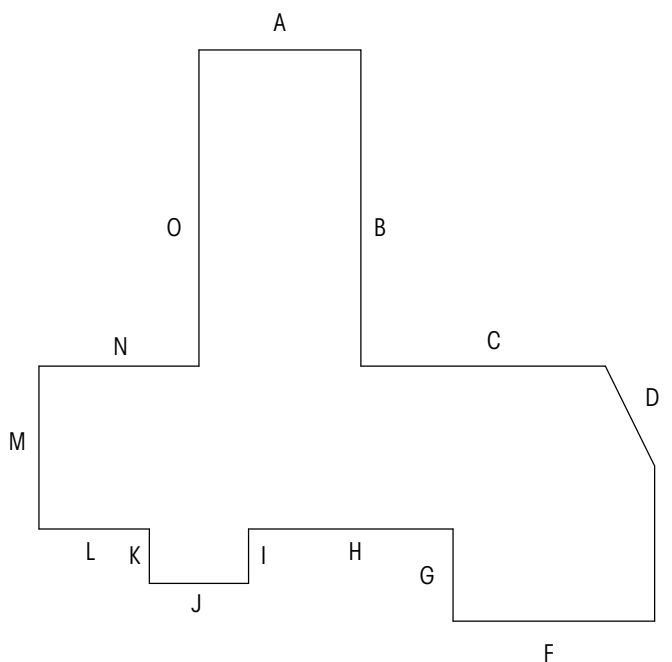
NOTE:
1. EXISTING HARDSCAPE LEGALLY CREATED.
2. EXISTING ROCKERY & STONE STEPS OCCUPY REMAINDER OF ZONE

EXISTING LAWN AREA TO BE REMOVED	959 SF
----------------------------------	--------

BASEMENT LEVEL BELOW GRADE AREA CALC

WALL SEGMENT	LENGTH	COVERAGE	RESULT
A	23.69'	100%	23.69'
B	46.63'	100%	46.63'
C	35.94'	100%	35.94'
D	16.83'	22%	3.69'
E	22.99'	0%	0'
F	30.09'	0%	0'
G	13.56'	0%	0'
H	29.38'	0%	0'
I	9.67'	0%	0'
J	15.14'	0%	0'
K	9.45'	0%	0'
L	16.16'	0%	0'
M	24.13'	60%	14.48'
N	23.75'	100%	23.75'
O	46.63'	100%	46.63'
TOTALS	363.85'		194.9'

TOTAL BASEMENT GSF = 3,793.78 SQ.FT.
 PORTION OF EXCLUDED BASEMENT FLOOR AREA, (194.9/363.85) X 3793.78 = 2032.18 SF
 NET BASEMENT GFA, (3,793.78 - 2032.18) = 1761.6 SF



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SHEET SIZE: E (30X42)
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NO. DATE:

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CHECKED BY: KM

LOWER FLOOR PLAN

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

A211

DEDICATED
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STAMP SPACE

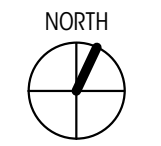
LEGEND

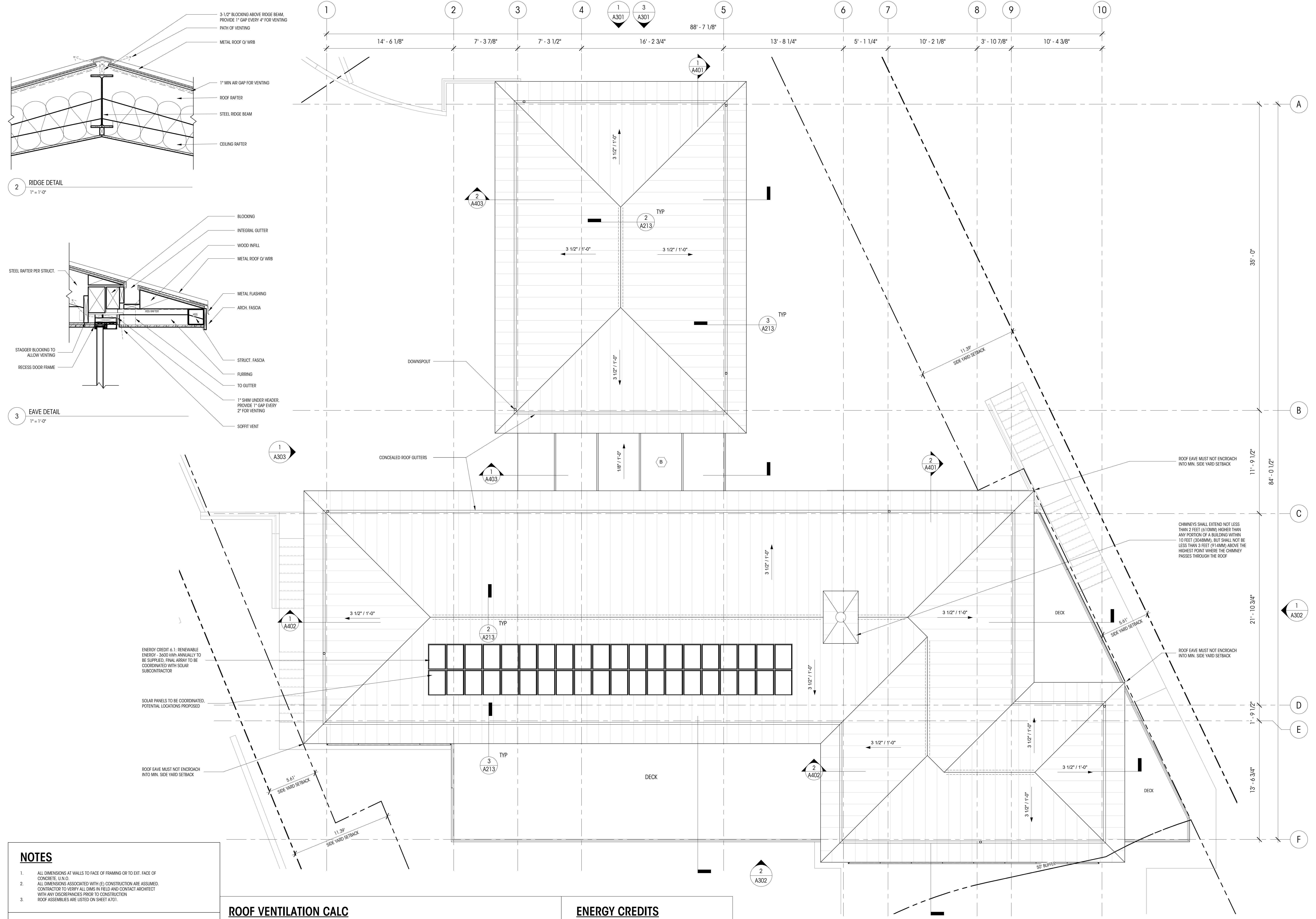
WINDOW ID	NEW WALL	PROPERTY LINE
DOOR ID	WALL TO REMAIN	SETBACK LINE
FINISH ID	ELEVATION DATUM	ROOF OVERHANG ABOVE
ROOM NAME	GRIDLINE	BRACE FRAME LOCATION
ASSEMBLY ID	SMOKE DETECTOR	FAN - 100 CFM U.N.O.
STOREFRONT ID	SMOKE/CARBON MONOXIDE DETECTOR	HEAT DETECTOR

- NOTES**
- ALL DIMENSIONS AT WALLS TO FACE OF FRAMING OR TO EXT. FACE OF CONCRETE, U.N.O.
 - ALL DIMENSIONS AT KITCHEN TO EDGE OF COUNTERTOPS, U.N.O.
 - SEE RCP FOR SMOKE / CARBON MONOXIDE DETECTOR AND EXHAUST FAN LOCATIONS.
 - ALL NEW WALLS TYPE W4A UNLESS NOTED OTHERWISE.
 - ALL DIMENSIONS ASSOCIATED WITH (E) CONSTRUCTION ARE ASSUMED. CONTRACTOR TO VERIFY ALL DIMS IN FIELD AND CONTACT ARCHITECT WITH ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
 - CONTRACTOR TO INSTALL CARBON MONOXIDE ALARMS OUTSIDE OF EACH BEDROOM IN THE IMMEDIATE VICINITY ON EACH FLOOR LEVEL PER IRC SECTION 315.3.
 - CONTRACTOR TO INSTALL SMOKE ALARMS OUTSIDE OF EACH BEDROOM IN THE IMMEDIATE VICINITY ON EACH FLOOR LEVEL PER IRC SECTION 314.2.2.
 - FLOOR, CEILING, AND WALL ASSEMBLIES ARE LISTED ON SHEET A701.

- ENERGY CREDITS**
- EFFICIENT BUILDING ENVELOPE OPTION 1.3: (0.5)**
 VERTICAL PENETRATION U = 0.25, FLOOR R-38, SLAB ON GRADE R-10 PERIMETER AND UNDER ENTIRE SLAB BELOW GRADE SLAB R-10 PERIMETER AND UNDER ENTIRE SLAB
- AIR LEAKAGE CONTROL OPTION 2.3: (1.5)**
 RECOVERY VENTILATOR: MITSUBISHI LOSSNAY, LGHF600RVK5
- HIGH EFFICIENCY HVAC EQUIPMENT OPTION 3.1: (1.0)**
 HIGH EFFICIENCY HVAC: HYDROKING BOILER W/VIDEONS, 200-B2HA
- EFFICIENT WATER HEATING OPTIONS 5.2: (0.5)**
- RENEWABLE ELECTRIC ENERGY OPTION 6.1: (3.0)**
 3600 kWh PHOTOVOLTAIC SYSTEM
- APPLIANCE PACKAGE OPTION 7.1: (0.5)**
 ENERGY EFFICIENT APPLIANCE PACKAGE

1 LOWER FLOOR PLAN
1/4" = 1'-0"





2 RIDGE DETAIL
1" = 1'-0"

3 EAVE DETAIL
1" = 1'-0"

NOTES

- ALL DIMENSIONS AT WALLS TO FACE OF FRAMING OR TO EXT. FACE OF CONCRETE, U.N.O.
- ALL DIMENSIONS ASSOCIATED WITH (E) CONSTRUCTION ARE ASSUMED. CONTRACTOR TO VERIFY ALL DIMS IN FIELD AND CONTACT ARCHITECT WITH ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- ROOF ASSEMBLIES ARE LISTED ON SHEET A701.

LEGEND

200A	WINDOW ID	-----	RIDGE VENT
EL= 148.5' (+0'-0")	ELEVATION DATUM	4" / 1'-0"	BUILDING FOOTPRINT
0	GRIDLINE	---	SPOT SLOPE
A	STOREFRONT ID	---	PROPERTY LINE
		---	SETBACK LINE

ROOF VENTILATION CALC

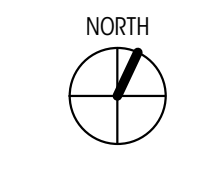
THE NET FREE VENTILATING AREA SHALL NOT BE LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED (PER IRC R806)

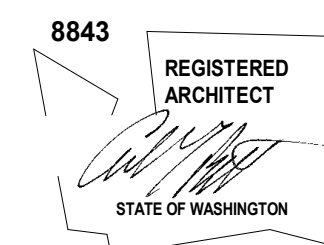
MAIN HOUSE ROOF	GARAGE ROOF
2135.34 SF OF TOTAL AREA TO BE VENTILATED	773.96 SF OF TOTAL AREA TO BE VENTILATED
2135.34 SF / 150 = 14.24 SF = 2,049.93 SQ. IN. OF VENTILATION REQUIRED	773.96 SF / 150 = 5.16 SF = 743.04 SQ. IN. OF VENTILATION REQUIRED
3.5 SQ. IN. OF VENTILATION PROVIDED PER 1" GAPS AT RIDGE, 4" O.C. (0.33 FT)	3.5 SQ. IN. OF VENTILATION PROVIDED PER 1" GAPS AT RIDGE, 4" O.C. (0.33 FT)
74.75 LINEAR FEET OF RIDGE / 0.33 FT O.C. = 226 GAPS	11.45 LINEAR FEET OF RIDGE / 0.33 FT O.C. = 34 GAPS
226 GAPS * 3.5 SQ. IN. = 791 SQ. IN. OF VENTILATION PROVIDED AT RIDGE	34 GAPS * 3.5 SQ. IN. = 119 SQ. IN. OF VENTILATION PROVIDED AT RIDGE
1 SQ. IN. OF VENTILATION PROVIDED PER 1" GAPS AT EAVE, 2" O.C. (0.17 FT)	1 SQ. IN. OF VENTILATION PROVIDED PER 1" GAPS AT EAVE, 2" O.C. (0.17 FT)
246.94 LINEAR FEET OF EAVE / 0.17 FT O.C. = 1,729 GAPS	113.69 LINEAR FEET OF EAVE / 0.17 FT O.C. = 668 GAPS
1,729 GAPS * 1" SQ. IN. = 1,729 SQ. IN. OF VENTILATION PROVIDED AT EAVE	668 GAPS * 1" SQ. IN. = 668 SQ. IN. OF VENTILATION PROVIDED AT EAVE
791 SQ. IN. + 1,729 SQ. IN. = 2,520 SQ. IN. (17.5 SF) OF VENTILATION PROVIDED	119 SQ. IN. + 668 SQ. IN. = 787 SQ. IN. (5.47 SF) OF VENTILATION PROVIDED

ENERGY CREDITS

- EFFICIENT BUILDING ENVELOPE OPTION 1.3: (0.5)**
VERTICAL FENESTRATION U = 0.28, FLOOR R-38, SLAB ON GRADE R-10 PERIMETER AND UNDER ENTIRE SLAB BELOW GRADE, SLAB R-10 PERIMETER AND UNDER ENTIRE SLAB
- AIR LEAKAGE CONTROL OPTION 2.3: (1.5)**
RECOVERY VENTILATOR: MITSUBISHI LOSSNAK, LGHF600RVIS
- HIGH EFFICIENCY HVAC EQUIPMENT OPTION 3.1: (1.0)**
HIGH EFFICIENCY HVAC: HYDRONIC BOILER W/DOORS, 200-R2HA
- EFFICIENT WATER HEATING OPTIONS 5.2: (0.5)**
- RENEWABLE ELECTRIC ENERGY OPTION 6.1: (3.0)**
3600 kWh PHOTOVOLTAIC SYSTEM
- APPLIANCE PACKAGE OPTION 7.1: (0.5)**
ENERGY EFFICIENT APPLIANCE PACKAGE

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





8480 RESIDENCE
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MERCER ISLAND, WA 98040
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PERMIT SUBMITTAL SET

DATE: 03.11.22

SHEET SIZE: E (30x42)

REVISIONS
NO. DATE:

DRAWN BY: DD

CHECKED BY: KM

EXTERIOR
ELEVATIONS (N)

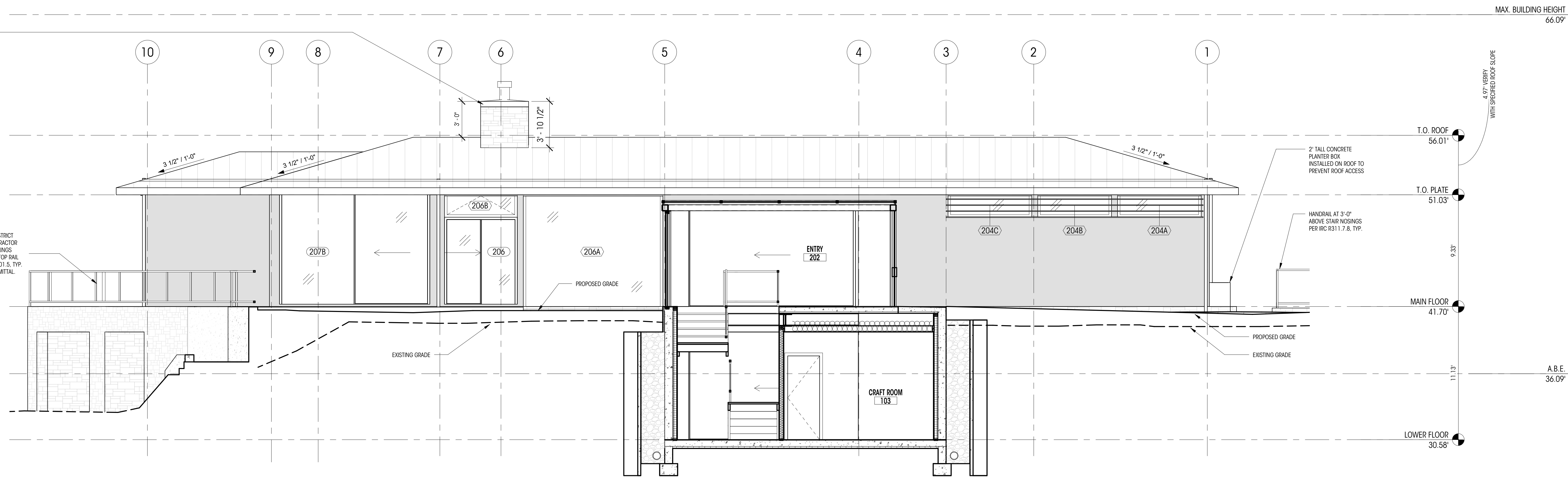
SCALE: 1/4" = 1'-0"

A301

DEDICATED
APPROVAL
STAMP SPACE

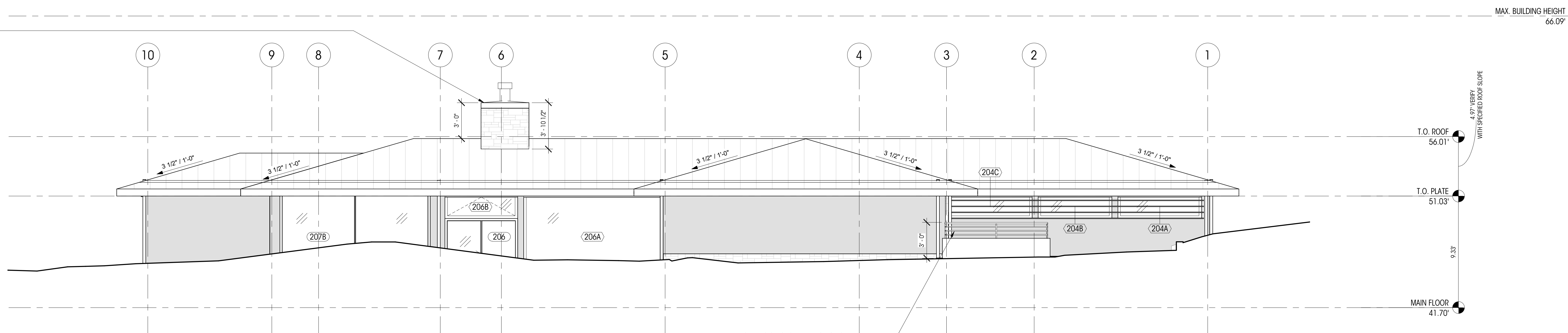
CHIMNEYS SHALL EXTEND NOT LESS THAN 2 FEET (610MM) HIGHER THAN ANY PORTION OF A BUILDING WITHIN 10 FEET (3048MM), BUT SHALL NOT BE LESS THAN 3 FEET (914MM) ABOVE THE HIGHEST POINT WHERE THE CHIMNEY PASSES THROUGH THE ROOF.

PRE-MANUFACTURED 3'-0" HIGH GUARDRAIL TO RESTRICT PASSAGE OF A 4" SPHERE PER IRC R312.1.3. CONTRACTOR SHALL VERIFY TO INSPECTOR ALL GUARDS AND RAILINGS SHALL BE CAPABLE OF RESISTING 200 LB LOAD ON TOP RAIL ACTING IN ANY DIRECTION AS REQUIRED BY IRC R301.5, TYP. DESIGN AND CONNECTION UNDER DEFERRED SUBMITTAL.



1 EXTERIOR ELEVATION - NORTH
1/4" = 1'-0"

CHIMNEYS SHALL EXTEND NOT LESS THAN 2 FEET (610MM) HIGHER THAN ANY PORTION OF A BUILDING WITHIN 10 FEET (3048MM), BUT SHALL NOT BE LESS THAN 3 FEET (914MM) ABOVE THE HIGHEST POINT WHERE THE CHIMNEY PASSES THROUGH THE ROOF.



3 EXTERIOR ELEVATION - NORTH - GARAGE
1/4" = 1'-0"

PRE-MANUFACTURED 3'-0" HIGH GUARDRAIL TO RESTRICT PASSAGE OF A 4" SPHERE PER IRC R312.1.3. CONTRACTOR SHALL VERIFY TO INSPECTOR ALL GUARDS AND RAILINGS SHALL BE CAPABLE OF RESISTING 200 LB LOAD ON TOP RAIL ACTING IN ANY DIRECTION AS REQUIRED BY IRC R301.5, TYP. DESIGN AND CONNECTION UNDER DEFERRED SUBMITTAL.

AVERAGE BUILDING ELEVATIONS (ABE)

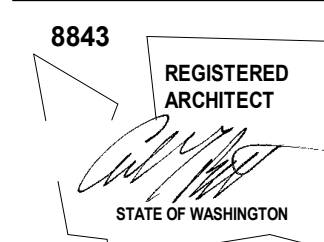
WALL	MIDPOINT EL. (FT.)	WALL LENGTH (FT.)	PRODUCT	AVERAGE GRADE (ABE)	13,000.4 / 340.22 = 38.09'
A	45.23'	23.83'	1077.8	MAX ALLOWABLE HEIGHT	30' ABOVE AVERAGE GRADE
B	41.63'	46.77'	1947.0	MAX HT. EL./MAX BLDG. HT.	66.09'
C	41.15'	32.89'	1353.4		
D	31.87'	17.23'	549.1		
E	30'	22.59'	677.7		
F	30'	30.09'	902.7		
G	30'	13.54'	406.8		
H	30'	29.38'	881.4		
I	30'	9.82'	294.6		
J	30'	15.16'	454.8		
K	30'	9.82'	294.6		
L	30'	16.16'	484.8		
M	35.24'	24.13'	850.3		
N	40.93'	22'	900.5		
O	41.14'	46.79'	1924.9		
TOTALS		360.22'	13,000.4		

LEGEND

- 0 --- GRIDLINE
- 200A WINDOW ID
- FINISH FLOOR 101'-3" ELEVATION DATUM
- 100A DOOR ID

NOTES

1. ALL DIMENSIONS AT WALLS TO FACE OF FRAMING OR TO EXT. FACE OF CONCRETE, U.N.O.
2. ALL DIMENSIONS ASSOCIATED WITH (E) CONSTRUCTION ARE ASSUMED. CONTRACTOR TO VERIFY ALL DIMS IN FIELD AND CONTACT ARCHITECT WITH ANY DISCREPANCIES PRIOR TO CONSTRUCTION.



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PERMIT SUBMITTAL SET

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SHEET SIZE: E (30x42)

REVISIONS
NO. DATE:

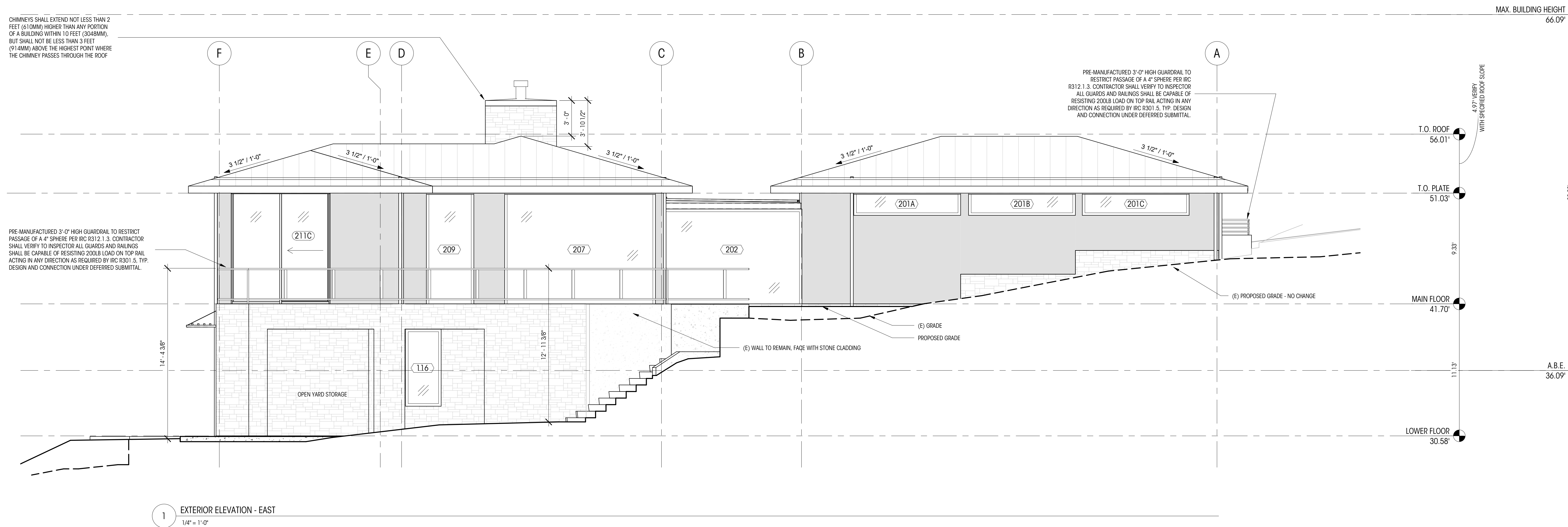
DRAWN BY: DD
CHECKED BY: KM

EXTERIOR
ELEVATIONS (E&S)

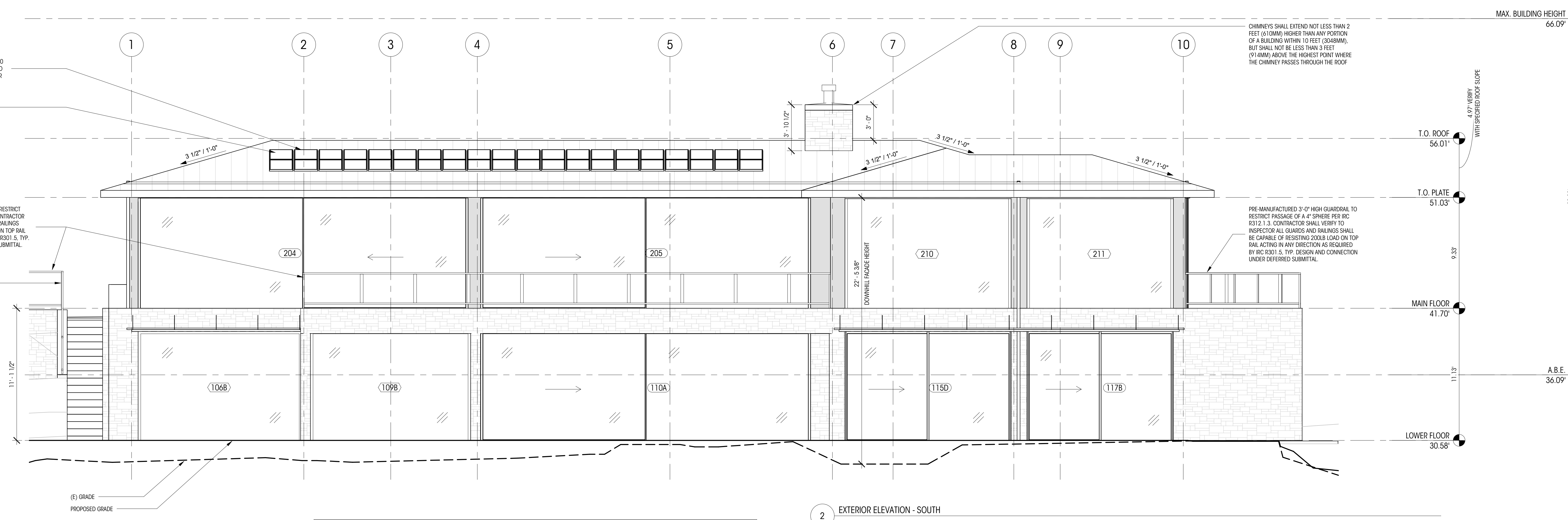
SCALE: 1/4" = 1'-0"

A302

DEDICATED
APPROVAL
STAMP SPACE



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



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

AVERAGE BUILDING ELEVATIONS (ABE)

WALL	MIDPOINT EL. (FT.)	WALL LENGTH (FT.)	PRODUCT	AVERAGE GRADE (ABE)
A	45.23'	23.83'	1077.8	13,000.4 / 340.22 = 36.09'
B	41.63'	46.77'	1947.0	
C	41.15'	32.89'	1353.4	
D	31.87'	17.23'	549.1	
E	30'	22.59'	677.7	
F	30'	30.09'	902.7	
G	30'	13.64'	406.8	
H	30'	29.38'	881.4	
I	30'	9.82'	294.6	
J	30'	15.14'	454.8	
K	30'	9.82'	294.6	
L	30'	16.16'	484.8	
M	35.24'	24.13'	850.3	
N	40.93'	22'	900.5	
O	41.14'	46.79'	1924.9	
TOTALS		360.22'	13,000.4	

MAX ALLOWABLE HEIGHT: 30' ABOVE AVERAGE GRADE
MAX HT. EL./MAX BLDG. HT: 66.09'

LEGEND

0 --- GRIDLINE
 FINISH FLOOR 101'-3"
 WINDOW ID
 DOOR ID

NOTES

- ALL DIMENSIONS AT WALLS TO FACE OF FRAMING OR TO EXT. FACE OF CONCRETE, U.N.O.
- ALL DIMENSIONS ASSOCIATED WITH (E) CONSTRUCTION ARE ASSUMED. CONTRACTOR TO VERIFY ALL DIMS IN FIELD AND CONTACT ARCHITECT WITH ANY DISCREPANCIES PRIOR TO CONSTRUCTION

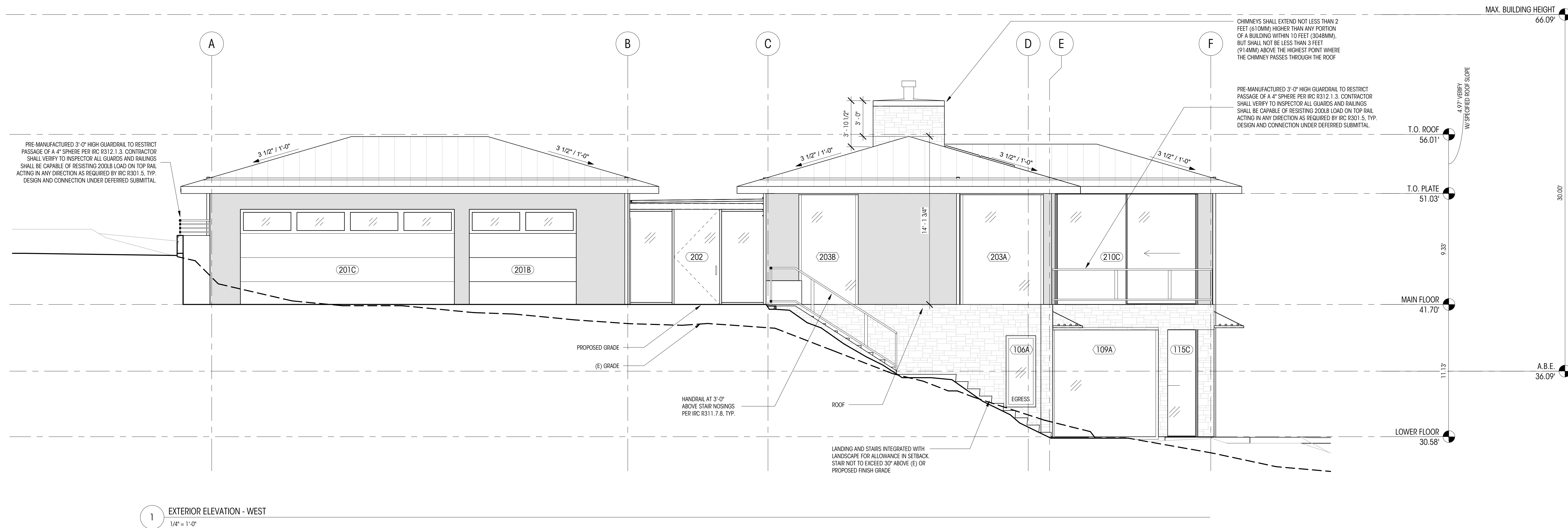
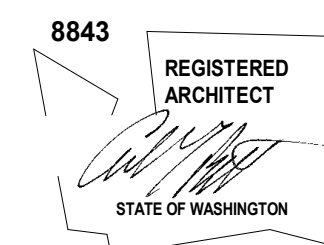
CHIMNEYS SHALL EXTEND NOT LESS THAN 2 FEET (610MM) HIGHER THAN ANY PORTION OF A BUILDING WITHIN 10 FEET (3048MM), BUT SHALL NOT BE LESS THAN 3 FEET (914MM) ABOVE THE HIGHEST POINT WHERE THE CHIMNEY PASSES THROUGH THE ROOF

PRE-MANUFACTURED 3'-0" HIGH GUARDRAIL TO RESTRICT PASSAGE OF A 4" SPHERE PER IRC R312.1.3. CONTRACTOR SHALL VERIFY TO INSPECTOR ALL GUARDS AND RAILINGS SHALL BE CAPABLE OF RESISTING 200LB LOAD ON TOP RAIL ACTING IN ANY DIRECTION AS REQUIRED BY IRC R301.5, TYP. DESIGN AND CONNECTION UNDER DEFERRED SUBMITTAL.

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1 EXTERIOR ELEVATION - WEST
1/4" = 1'-0"

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CHECKED BY: KM

EXTERIOR
ELEVATIONS (W)

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

A303

DEDICATED
APPROVAL
STAMP SPACE

LEGEND

0 --- GRIDLINE

200A WINDOW ID

101'-3" FINISH FLOOR ELEVATION DATUM

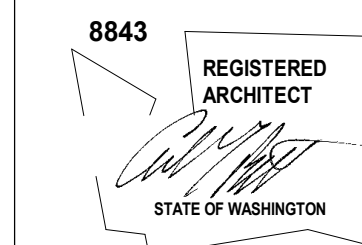
100A DOOR ID

NOTES

- ALL DIMENSIONS AT WALLS TO FACE OF FRAMING OR TO EXT. FACE OF CONCRETE, U.N.O.
- ALL DIMENSIONS ASSOCIATED WITH (E) CONSTRUCTION ARE ASSUMED. CONTRACTOR TO VERIFY ALL DIMS IN FIELD AND CONTACT ARCHITECT WITH ANY DISCREPANCIES PRIOR TO CONSTRUCTION

AVERAGE BUILDING ELEVATIONS (ABE)

WALL	MIDPOINT EL. (FT.)	WALL LENGTH (FT.)	PRODUCT	AVERAGE GRADE (ABE)
A	45.23'	23.83'	1077.8	13,000.4 / 340.22 = 36.09' MAX ALLOWABLE HEIGHT 30' ABOVE AVERAGE GRADE MAX HT. EL./MAX BLDG. HT. 66.09'
B	41.63'	46.77'	1947.0	
C	41.15'	32.89'	1353.4	
D	31.87'	17.23'	549.1	
E	30'	22.59'	677.7	
F	30'	30.09'	902.7	
G	30'	13.56'	406.8	
H	30'	29.38'	881.4	
I	30'	9.82'	294.6	
J	30'	15.16'	454.8	
K	30'	9.82'	294.6	
L	30'	16.16'	484.8	
M	35.24'	24.13'	850.3	
N	40.93'	22'	900.5	
O	41.14'	46.79'	1924.9	
TOTALS		360.22'	13,000.4	



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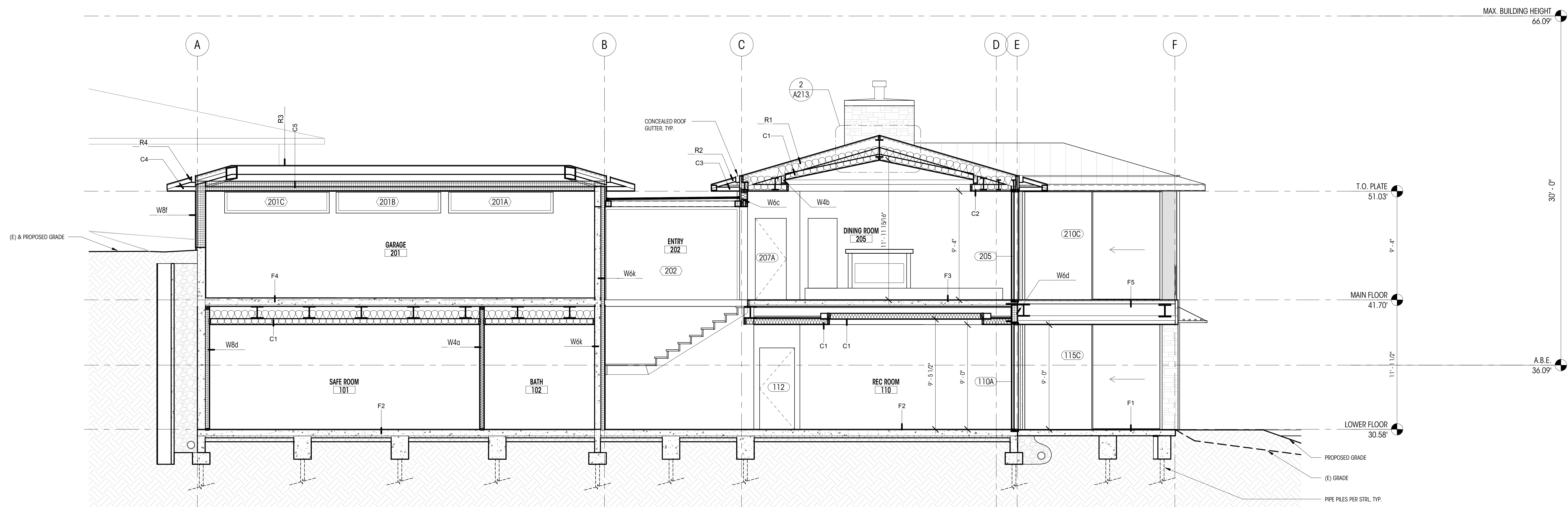
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BUILDING SECTIONS

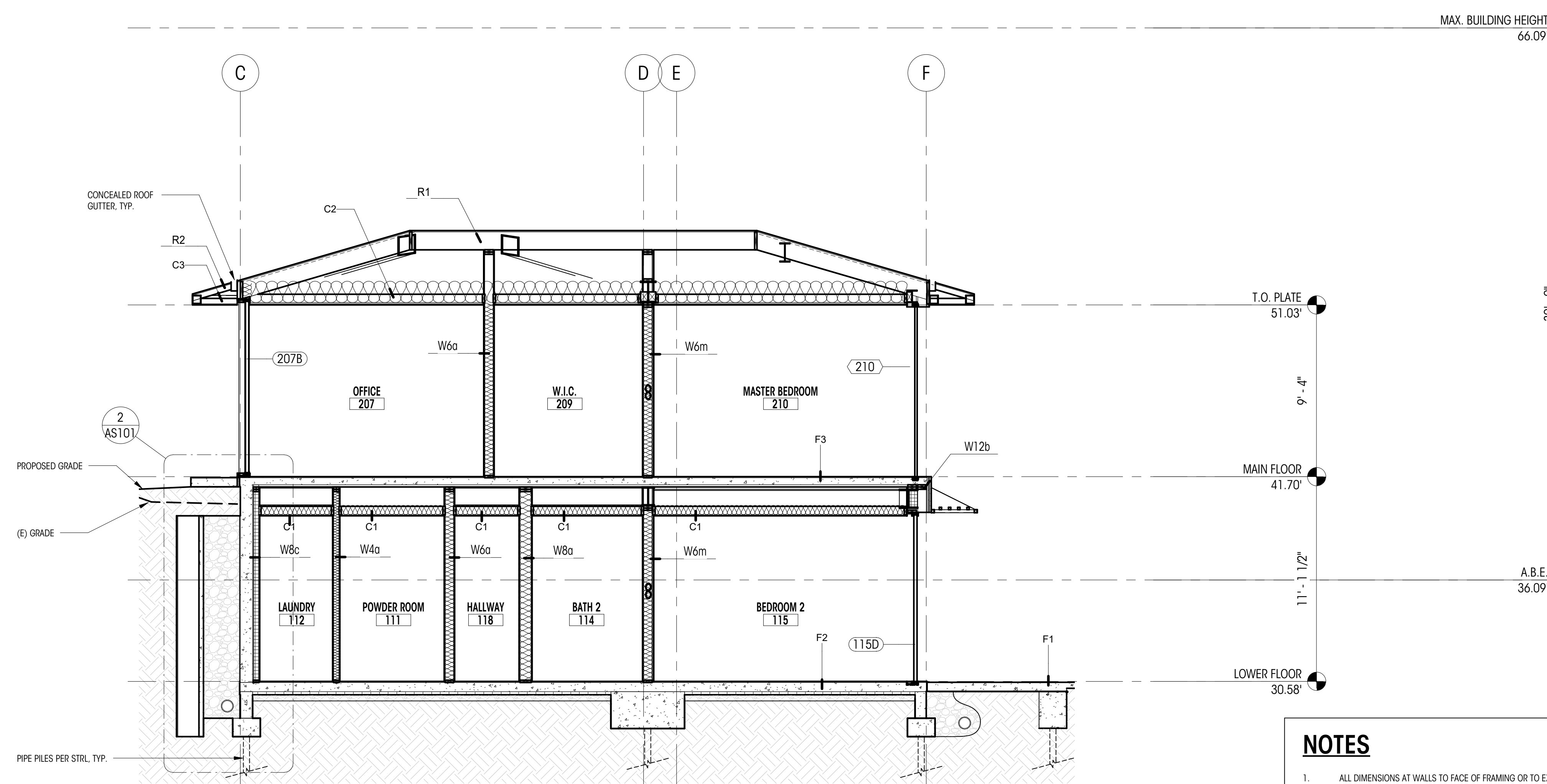
SCALE: 1/4" = 1'-0"

A401

DEDICATED
APPROVAL
STAMP SPACE

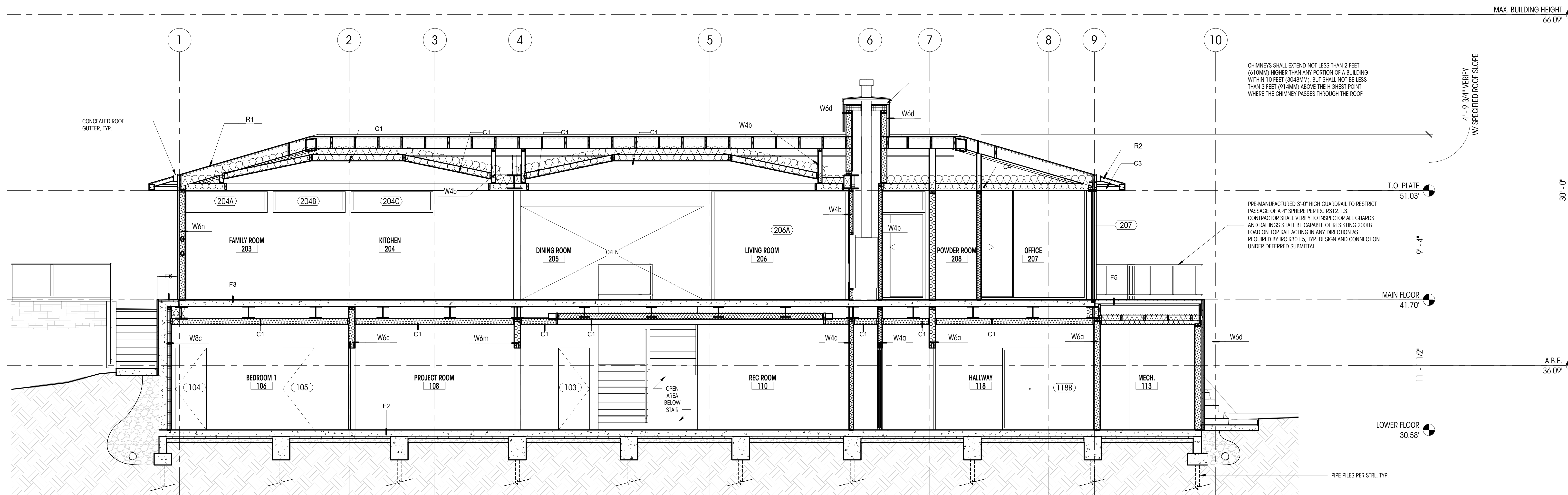
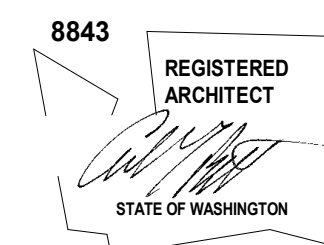


1 LONGITUDINAL SECTION A
1/4" = 1'-0"

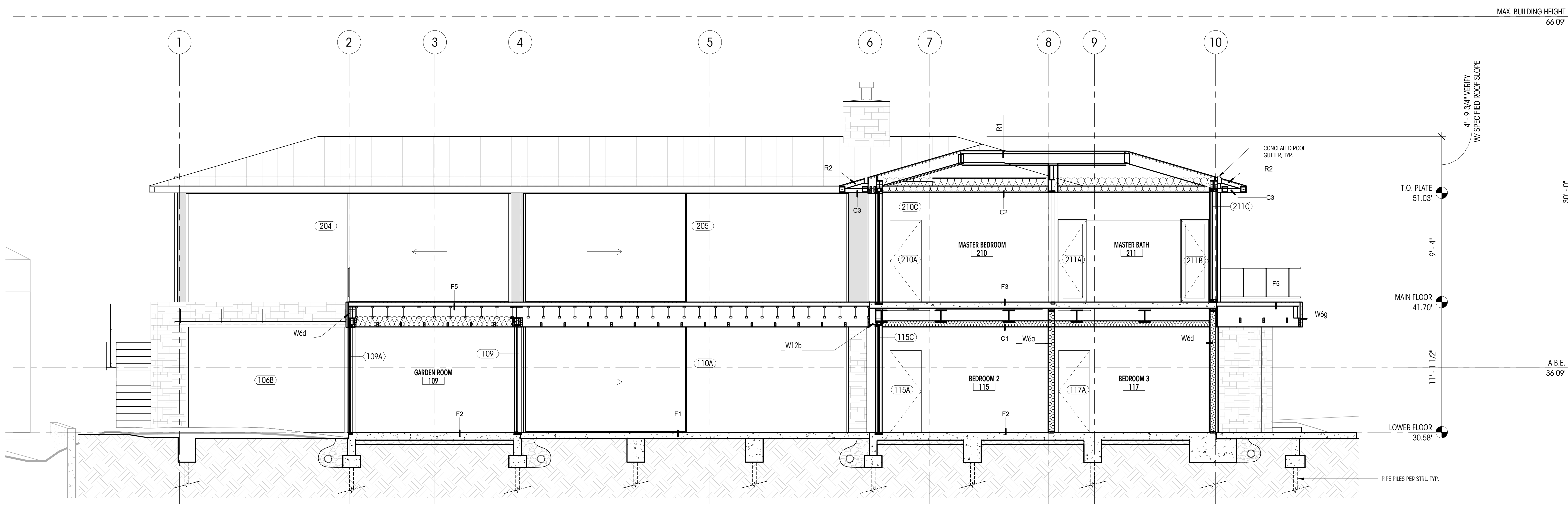


2 LONGITUDINAL SECTION B
1/4" = 1'-0"

- NOTES**
- ALL DIMENSIONS AT WALLS TO FACE OF FRAMING OR TO EXT. FACE OF CONCRETE, U.N.O.
 - ALL DIMENSIONS AT KITCHEN TO EDGE OF COUNTERTOPS, U.N.O.
 - ALL DIMENSIONS ASSOCIATED WITH (E) CONSTRUCTION ARE ASSUMED. CONTRACTOR TO VERIFY ALL DIMS IN FIELD AND CONTACT ARCHITECT WITH ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
 - FLOOR, CEILING, AND WALL ASSEMBLIES ARE LISTED ON SHEET A701.
 - THERMAL BREAKS LOCATED AT ALL FLOORS AND WALLS TO FOUNDATIONS. THERMAL BREAKS AT ALL STRUCTURAL CONNECTIONS TO BE COORDINATED WITH STRUCTURAL ENGINEER.



1 TRANSVERSE SECTION A
1/4" = 1'-0"



2 TRANSVERSE SECTION B
1/4" = 1'-0"

- NOTES**
1. ALL DIMENSIONS AT WALLS TO FACE OF FRAMING OR TO EXT. FACE OF CONCRETE, U.N.O.
 2. ALL DIMENSIONS AT KITCHEN TO EDGE OF COUNTERTOPS, U.N.O.
 3. ALL DIMENSIONS ASSOCIATED WITH (C) CONSTRUCTION ARE ASSUMED. CONTRACTOR TO VERIFY ALL DIMS IN FIELD AND CONTACT ARCHITECT WITH ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
 4. FLOOR, CEILING, AND WALL ASSEMBLIES ARE LISTED ON SHEET A701.
 5. THERMAL BREAKS LOCATED AT ALL FLOORS AND WALLS TO FOUNDATIONS. THERMAL BREAKS AT ALL STRUCTURAL CONNECTIONS TO BE COORDINATED WITH STRUCTURAL ENGINEER.

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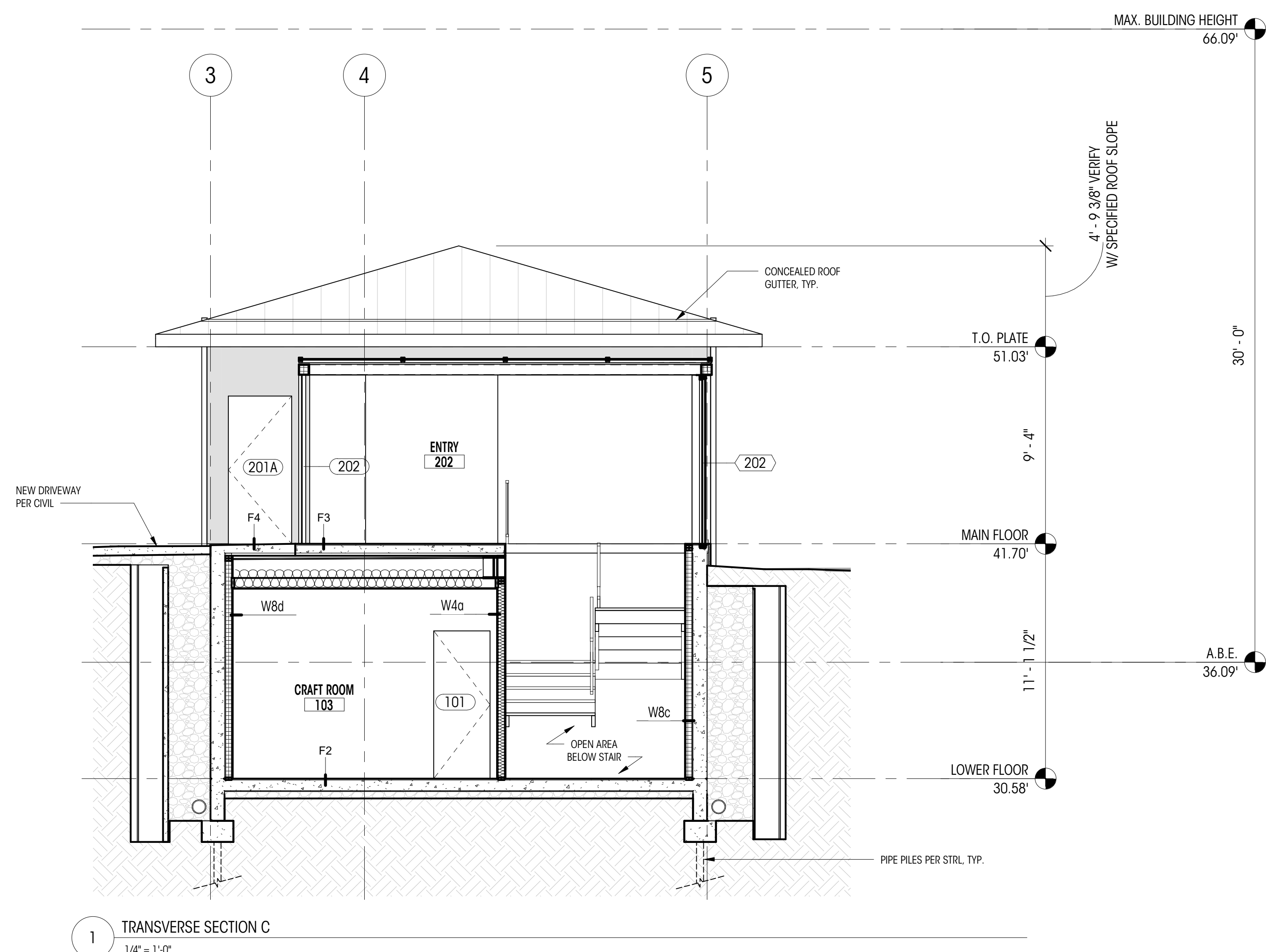
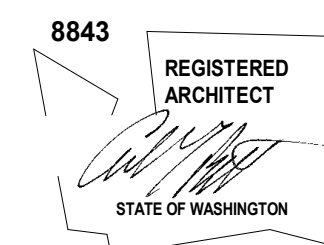
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BUILDING SECTIONS

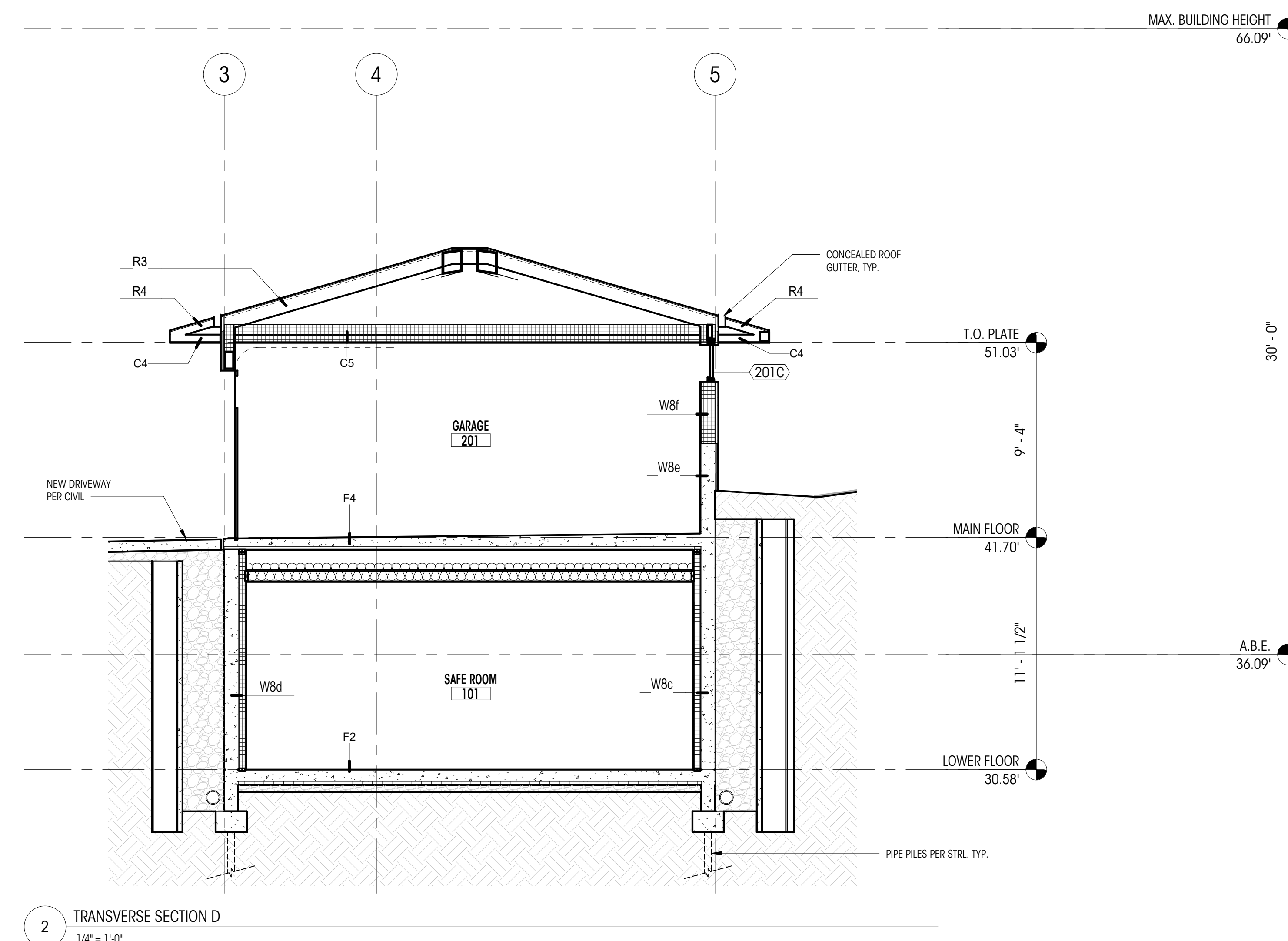
SCALE: 1/4" = 1'-0"

A402

DEDICATED
APPROVAL
STAMP SPACE



1 TRANSVERSE SECTION C
1/4" = 1'-0"



2 TRANSVERSE SECTION D
1/4" = 1'-0"

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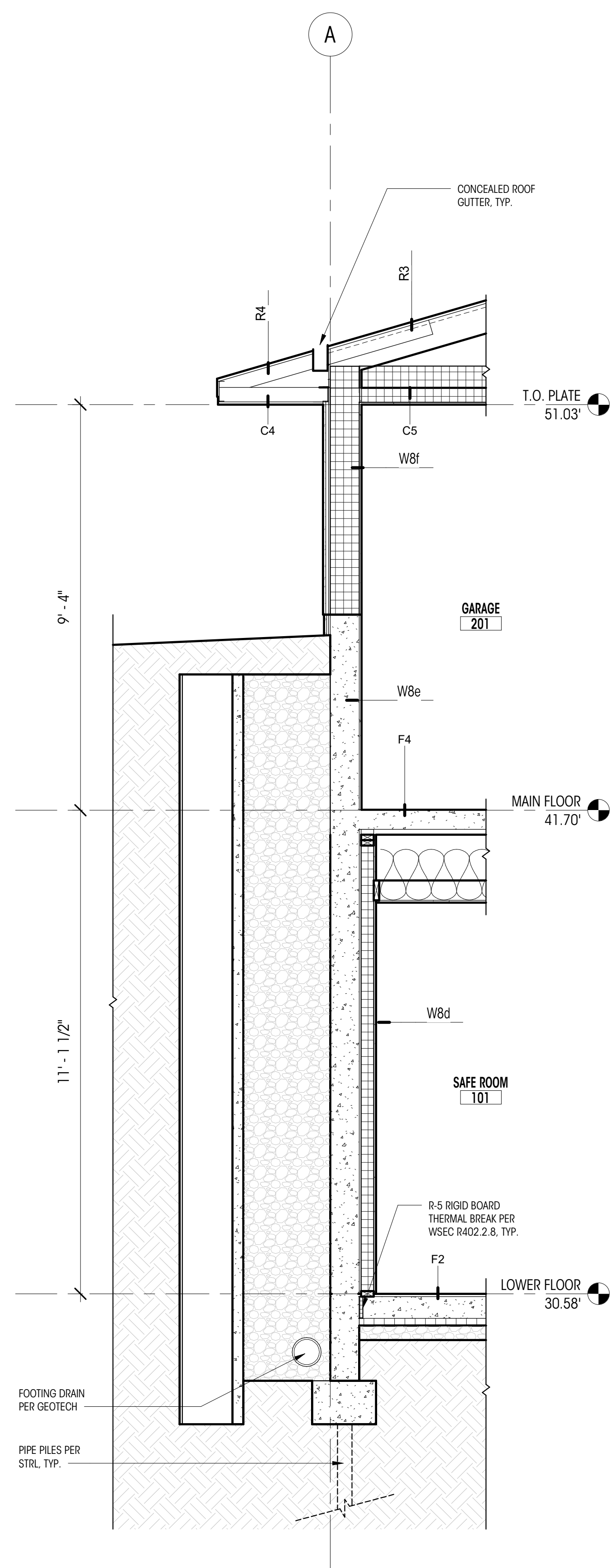
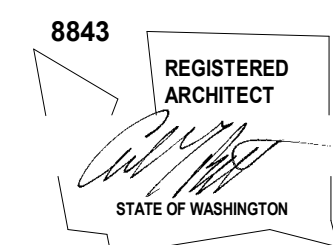
BUILDING SECTIONS

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

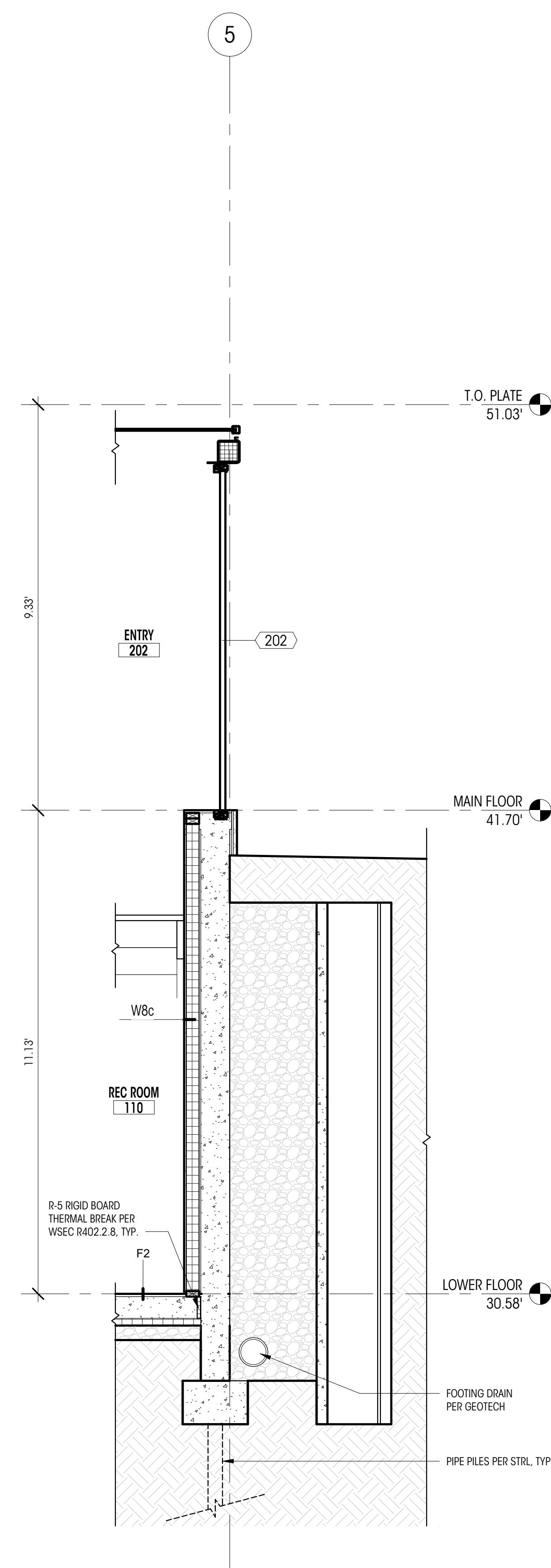
A403

DEDICATED
APPROVAL
STAMP SPACE

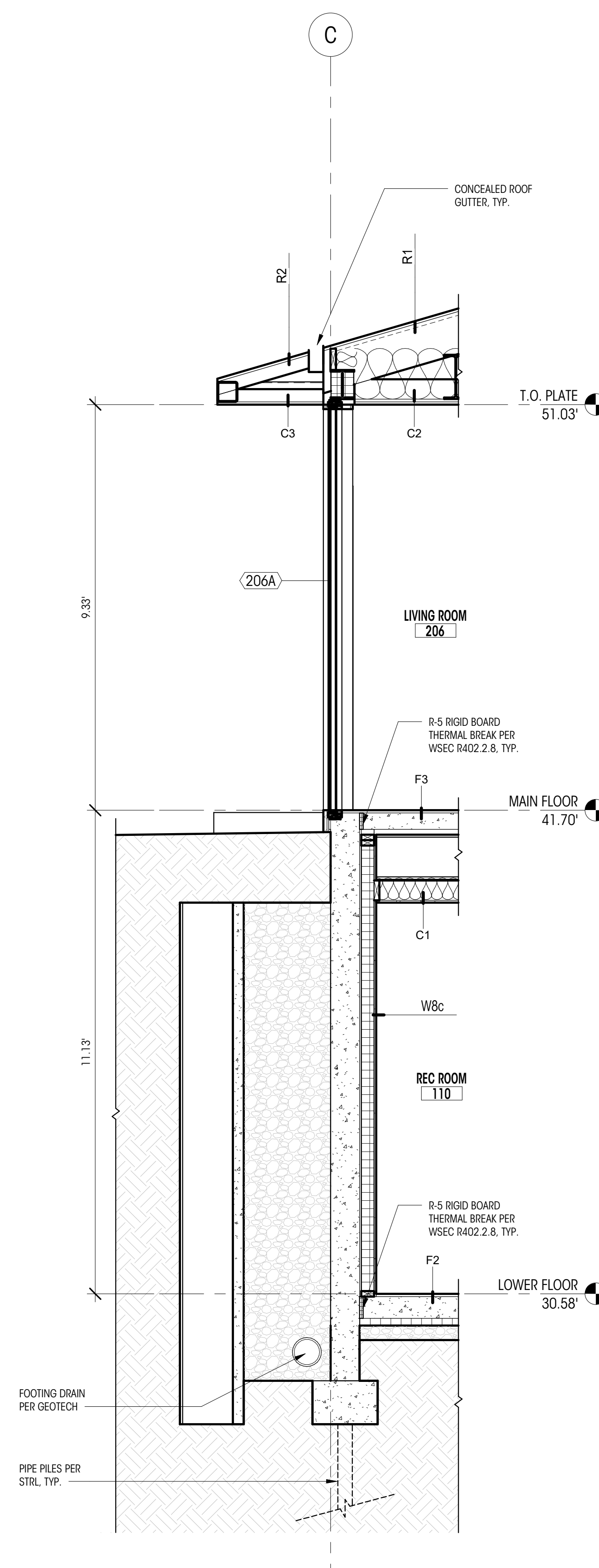
- NOTES**
1. ALL DIMENSIONS AT WALLS TO FACE OF FRAMING OR TO EXT. FACE OF CONCRETE, U.N.O.
 2. ALL DIMENSIONS AT KITCHEN TO EDGE OF COUNTERTOPS, U.N.O.
 3. ALL DIMENSIONS ASSOCIATED WITH (E) CONSTRUCTION ARE ASSUMED. CONTRACTOR TO VERIFY ALL DIMS IN FIELD AND CONTACT ARCHITECT WITH ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
 4. FLOOR, CEILING, AND WALL ASSEMBLIES ARE LISTED ON SHEET A701.
 5. THERMAL BREAKS LOCATED AT ALL FLOORS AND WALLS TO FOUNDATIONS; THERMAL BREAKS AT ALL STRUCTURAL CONNECTIONS TO BE COORDINATED WITH STRUCTURAL ENGINEER.



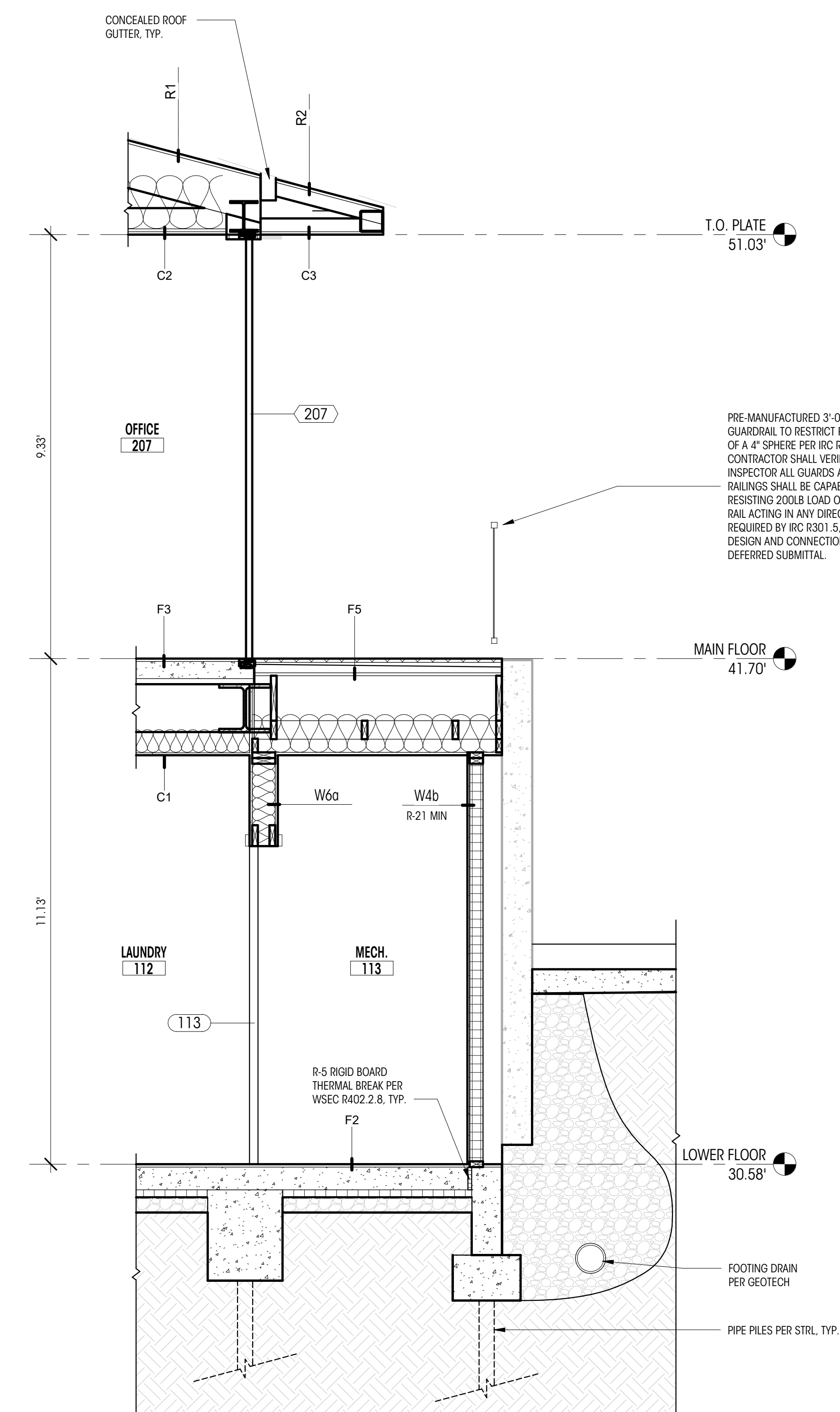
1 WALL SECTION A
1/2" = 1'-0"



2 WALL SECTION B
1/2" = 1'-0"



3 WALL SECTION C
1/2" = 1'-0"



4 WALL SECTION D
1/2" = 1'-0"

NOTES

1. ALL DIMENSIONS AT WALLS TO FACE OF FRAMING OR TO EXT. FACE OF CONCRETE, U.N.O.
2. ALL DIMENSIONS AT KITCHEN TO EDGE OF COUNTERTOPS, U.N.O.
3. ALL DIMENSIONS ASSOCIATED WITH (2) CONSTRUCTION ARE ASSUMED. CONTRACTOR TO VERIFY ALL DIMS IN FIELD AND CONTACT ARCHITECT WITH ANY DISCREPANCIES PRIOR TO CONSTRUCTION
4. FLOOR, CEILING, AND WALL ASSEMBLIES ARE LISTED ON SHEET A701.
5. THERMAL BREAKS LOCATED AT ALL FLOORS AND WALLS TO FOUNDATIONS, THERMAL BREAKS AT ALL STRUCTURAL CONNECTIONS TO BE COORDINATED WITH STRUCTURAL ENGINEER

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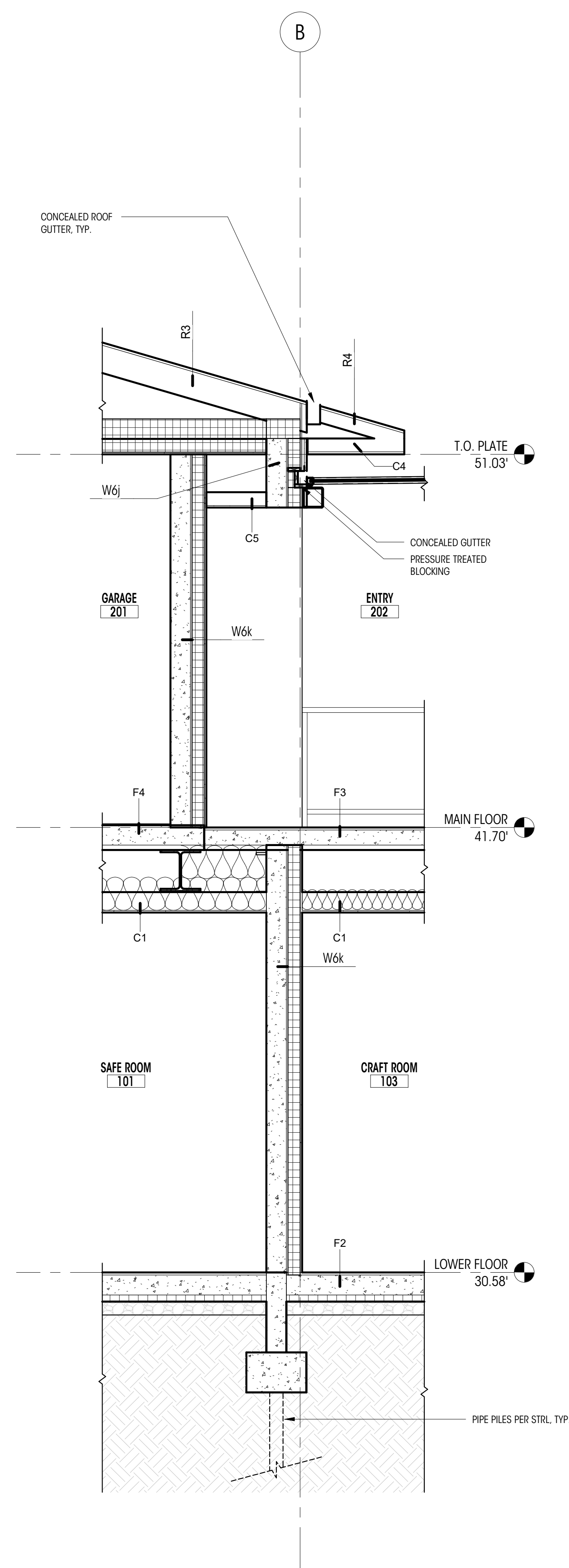
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WALL SECTIONS

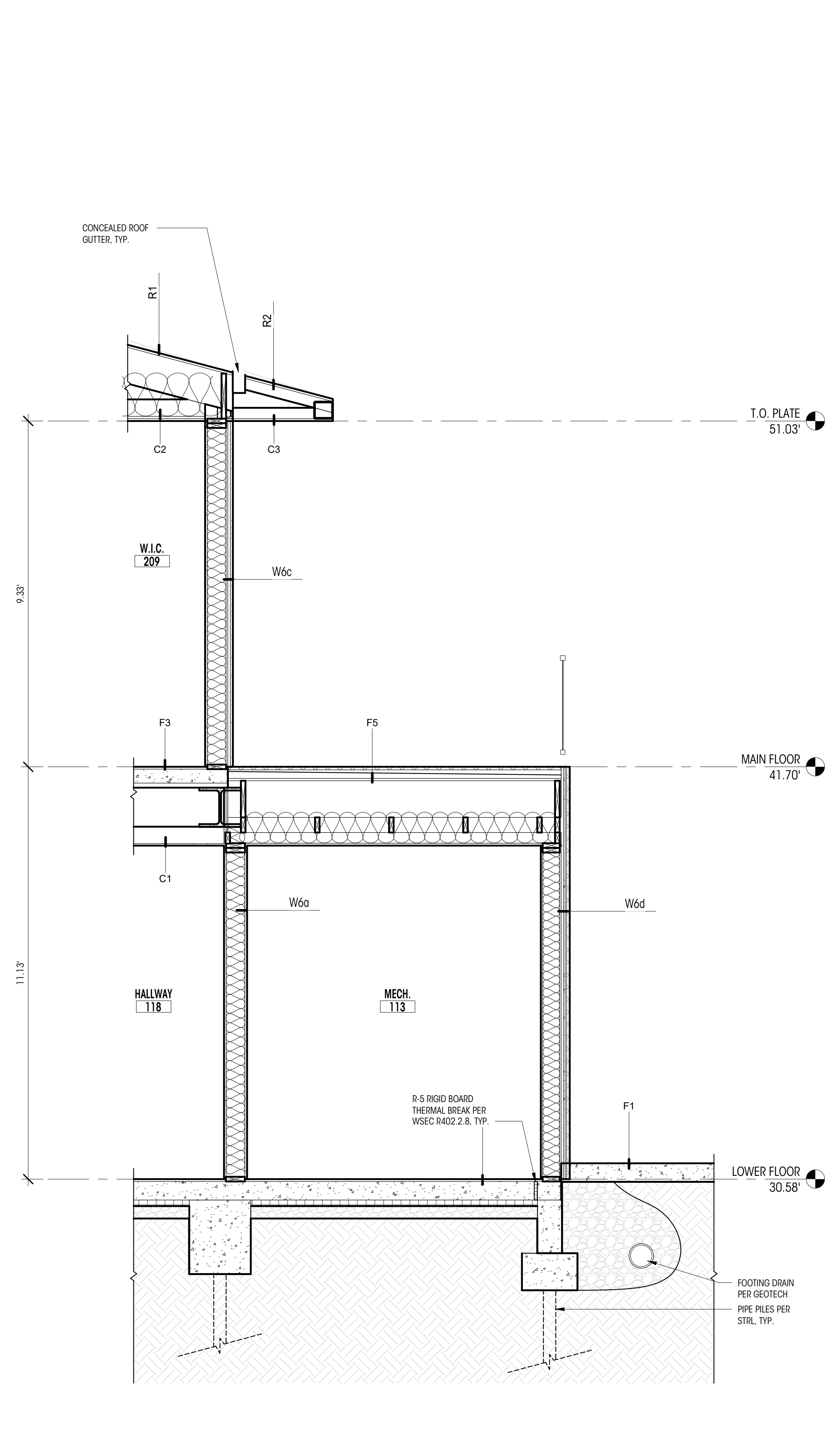
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A411

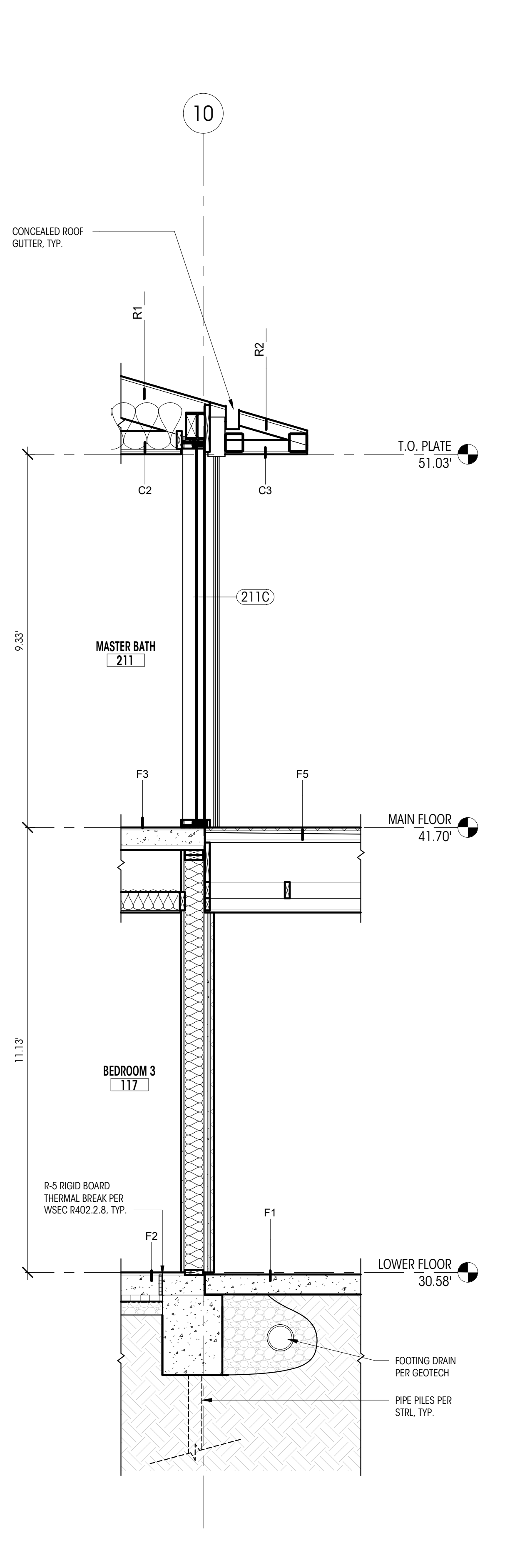
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APPROVAL
STAMP SPACE



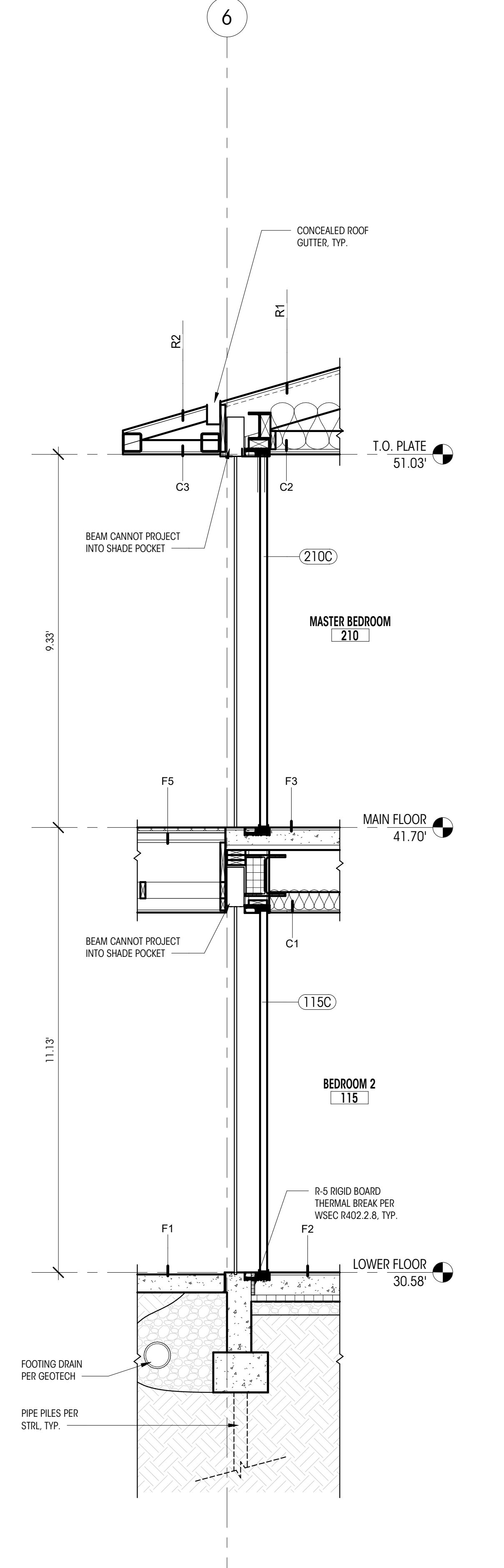
1 WALL SECTION E
1/2" = 1'-0"



2 WALL SECTION F
1/2" = 1'-0"



3 WALL SECTION G
1/2" = 1'-0"



4 WALL SECTION H
1/2" = 1'-0"

- NOTES**
- ALL DIMENSIONS AT WALLS TO FACE OF FRAMING OR TO EXT. FACE OF CONCRETE, U.N.O.
 - ALL DIMENSIONS AT KITCHEN TO EDGE OF COUNTERTOPS, U.N.O.
 - ALL DIMENSIONS ASSOCIATED WITH (2) CONSTRUCTION ARE ASSUMED. CONTRACTOR TO VERIFY ALL DIMS IN FIELD AND CONTACT ARCHITECT WITH ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
 - FLOOR, CEILING, AND WALL ASSEMBLIES ARE LISTED ON SHEET A701.
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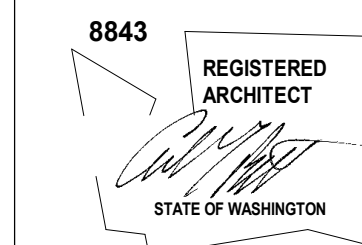
DRAWN BY: DD
CHECKED BY: KM

WALL SECTIONS

SCALE: As indicated

A412

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SHEET SIZE: E (30x42)

REVISIONS
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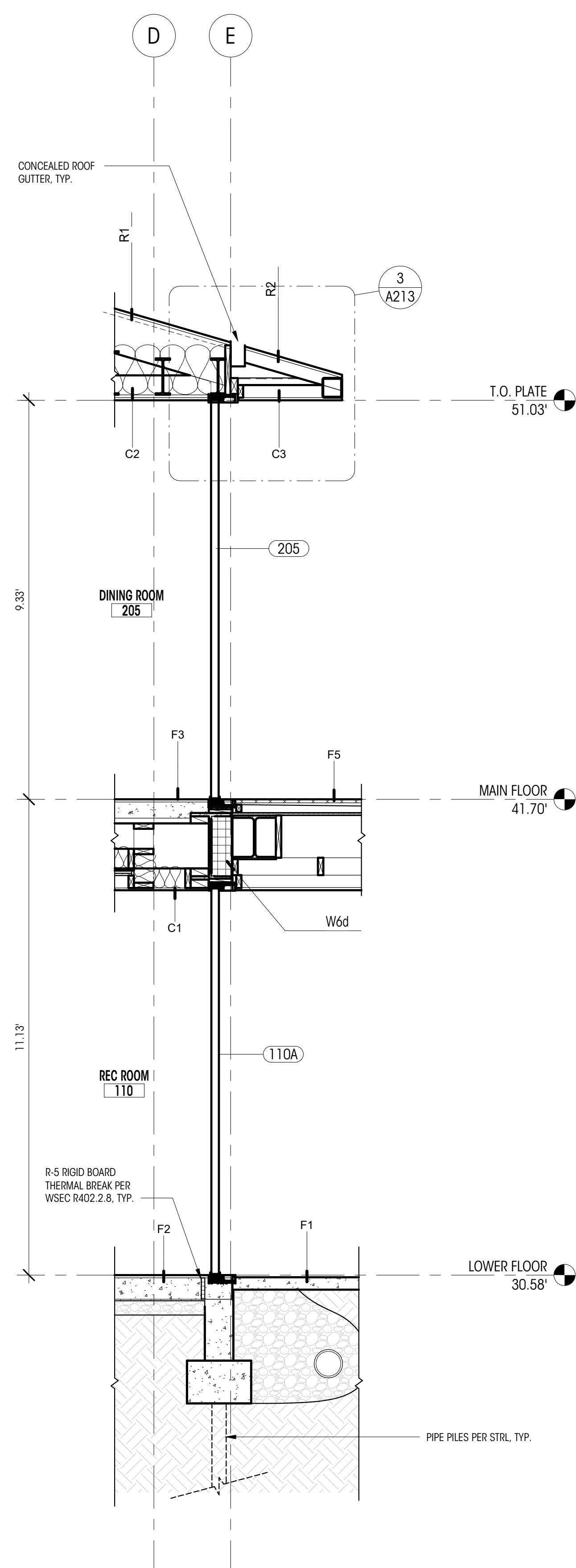
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CHECKED BY: KM

WALL SECTIONS

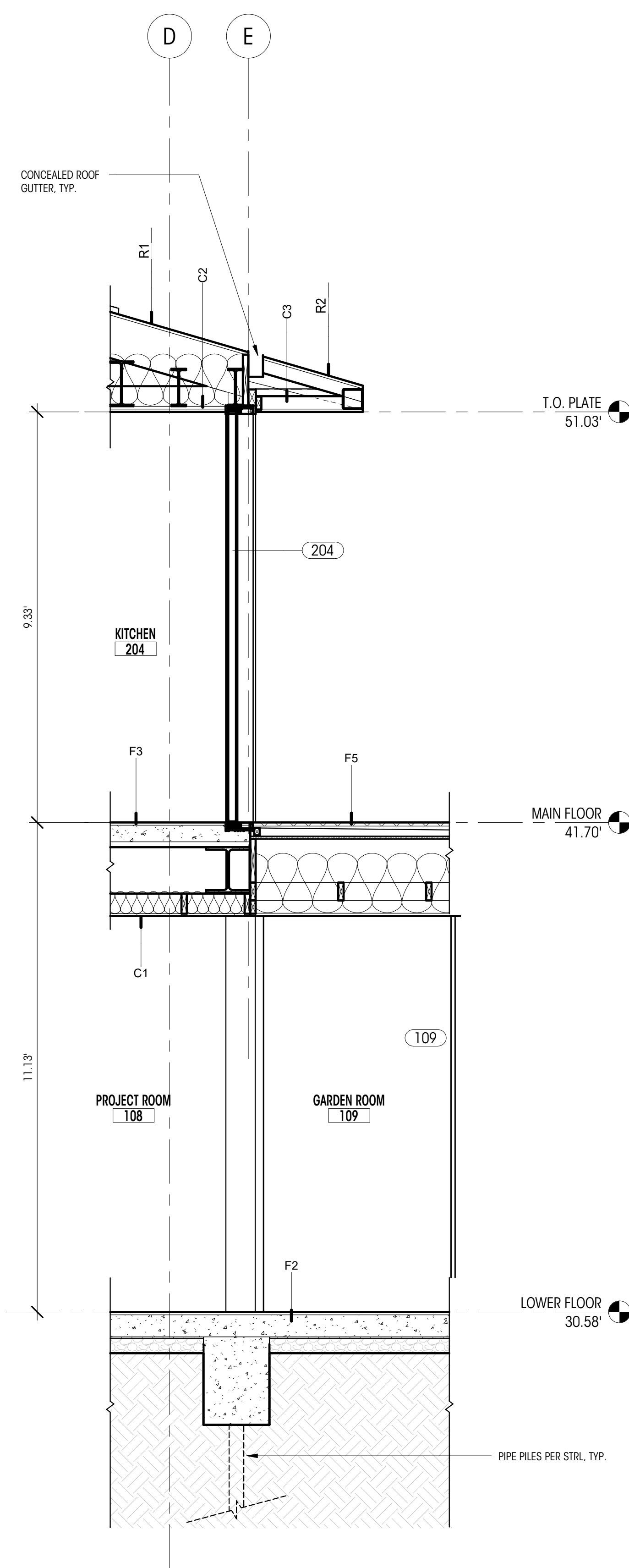
SCALE: As indicated

A413

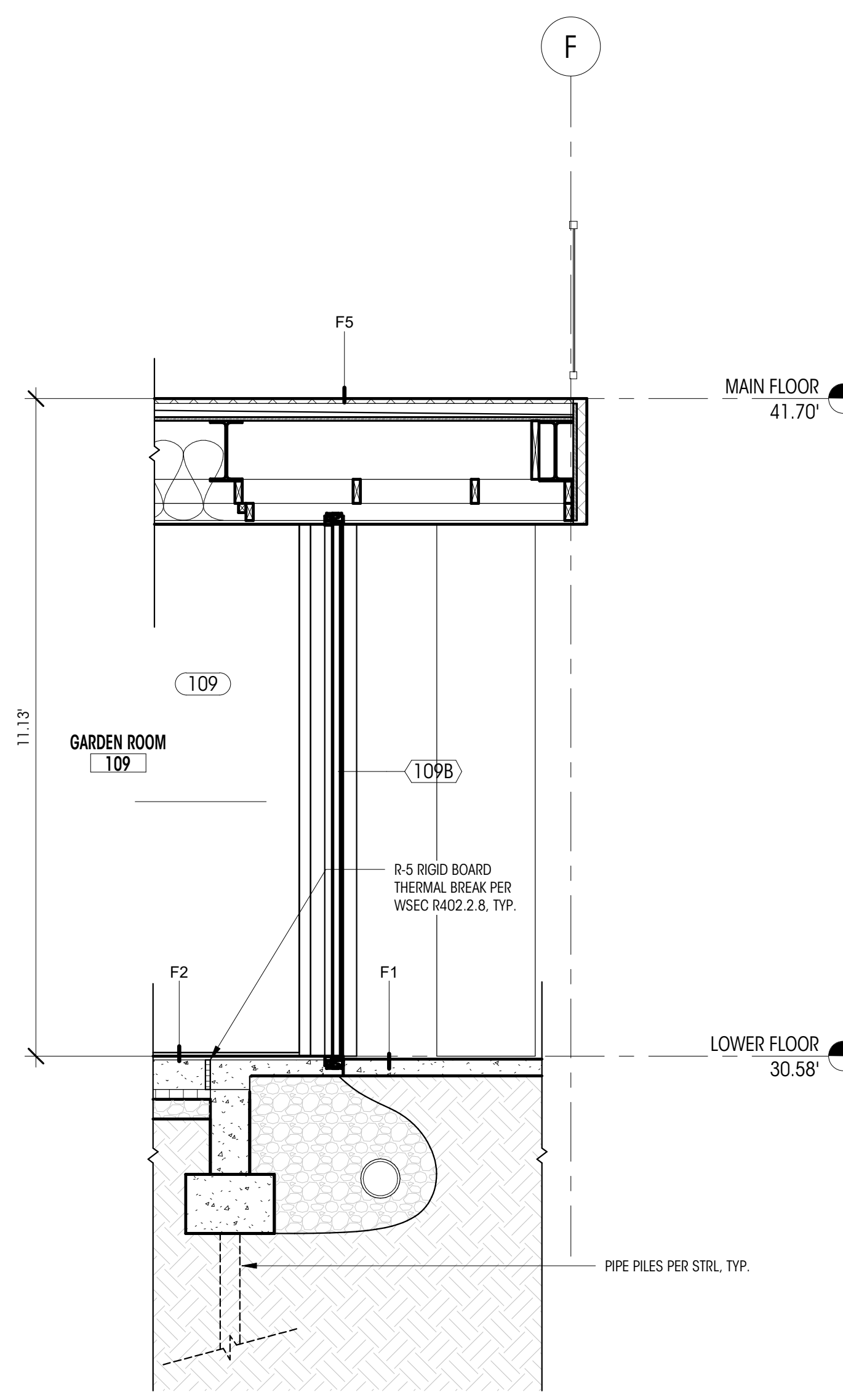
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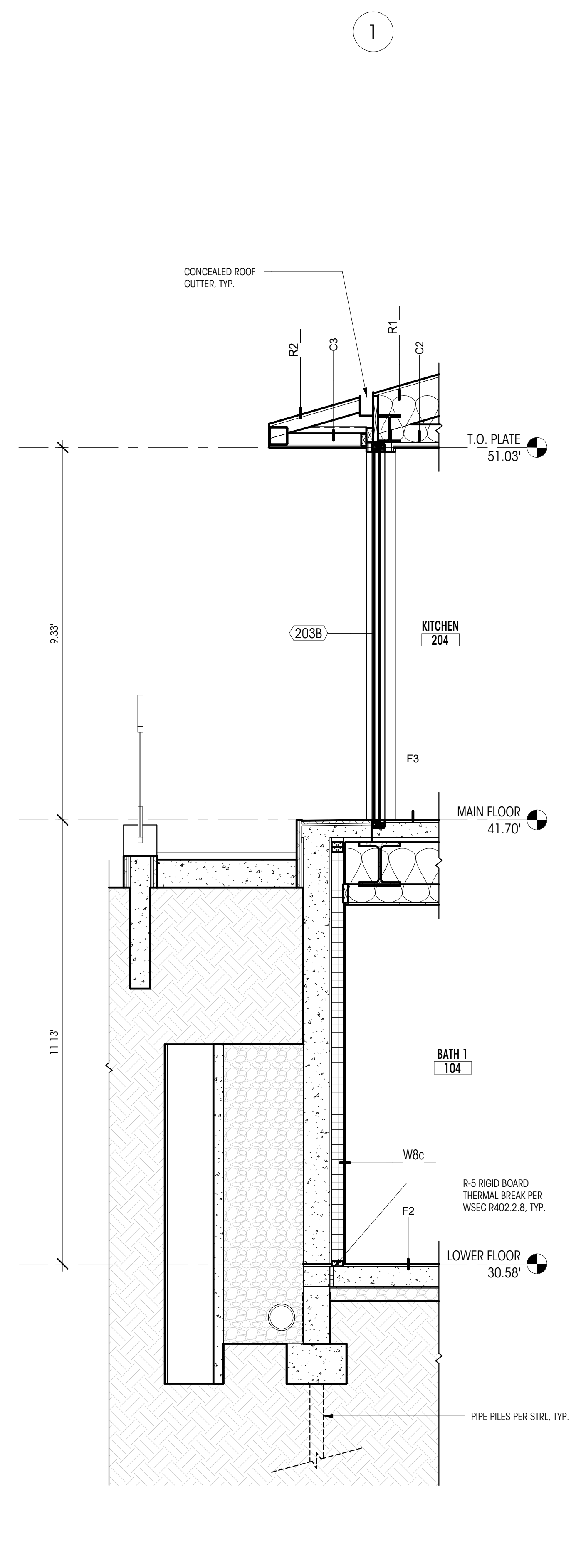
1 WALL SECTION J
1/2" = 1'-0"



2 WALL SECTION K
1/2" = 1'-0"

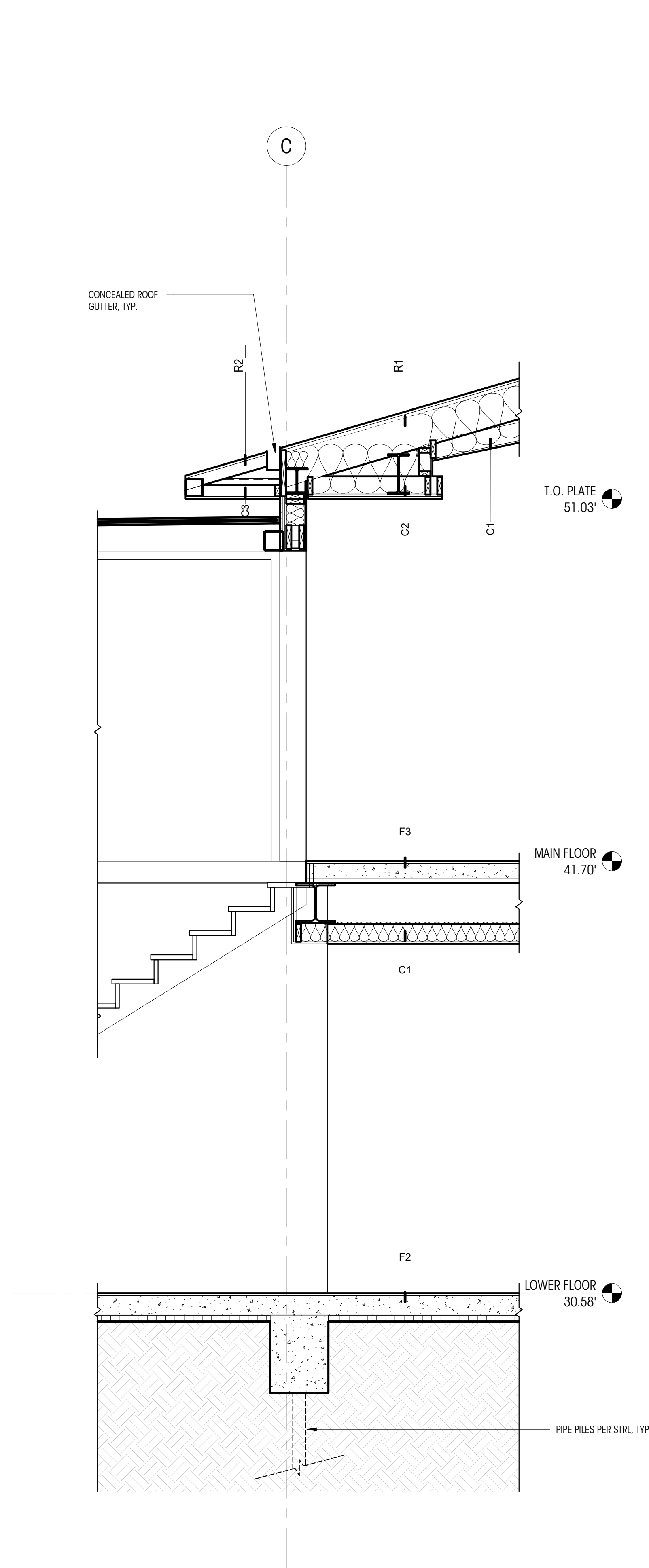
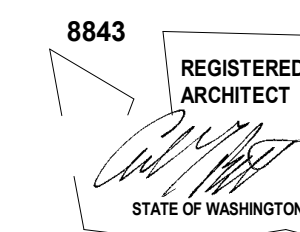


3 WALL SECTION L
1/2" = 1'-0"

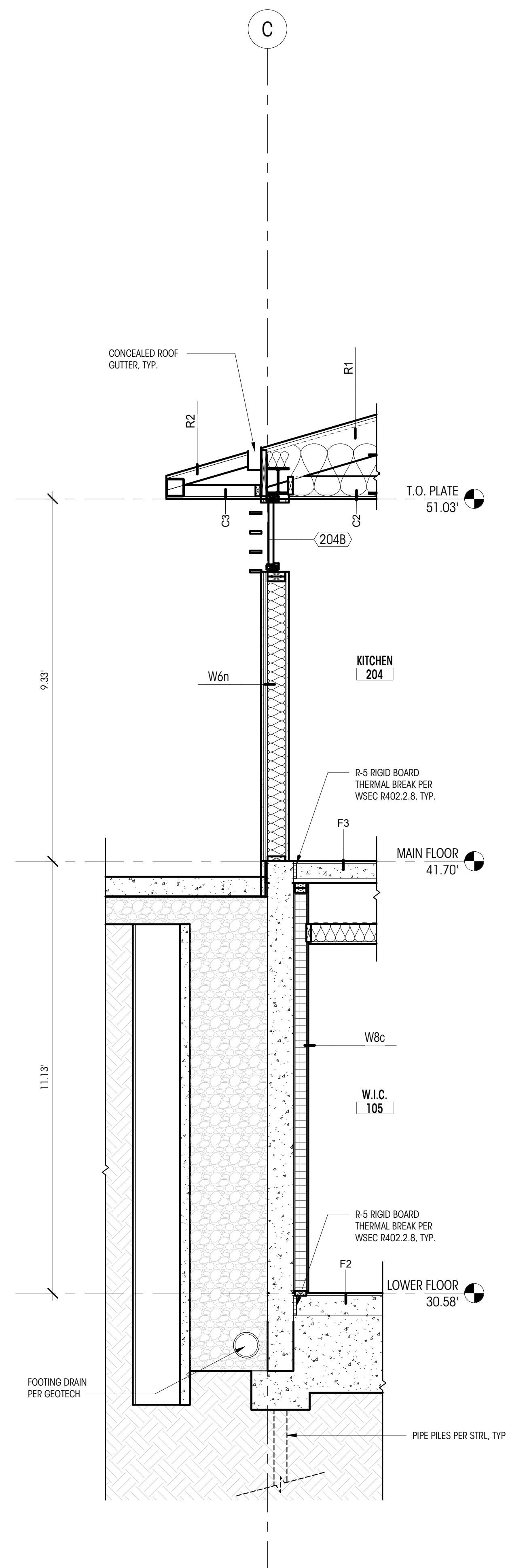


4 WALL SECTION M
1/2" = 1'-0"

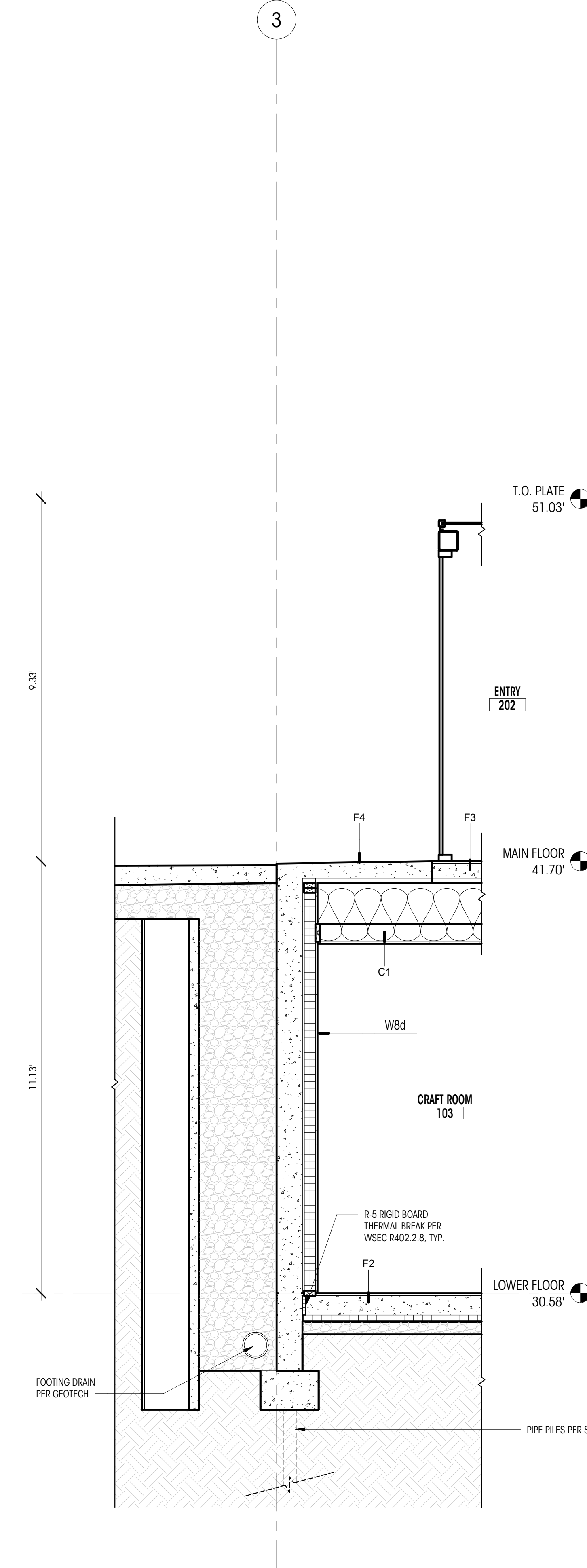
- NOTES**
- ALL DIMENSIONS AT WALLS TO FACE OF FRAMING OR TO EXT. FACE OF CONCRETE, U.N.O.
 - ALL DIMENSIONS AT KITCHEN TO EDGE OF COUNTERTOPS, U.N.O.
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 - THERMAL BREAKS LOCATED AT ALL FLOORS AND WALLS TO FOUNDATIONS. THERMAL BREAKS AT ALL STRUCTURAL CONNECTIONS TO BE COORDINATED WITH STRUCTURAL ENGINEER.



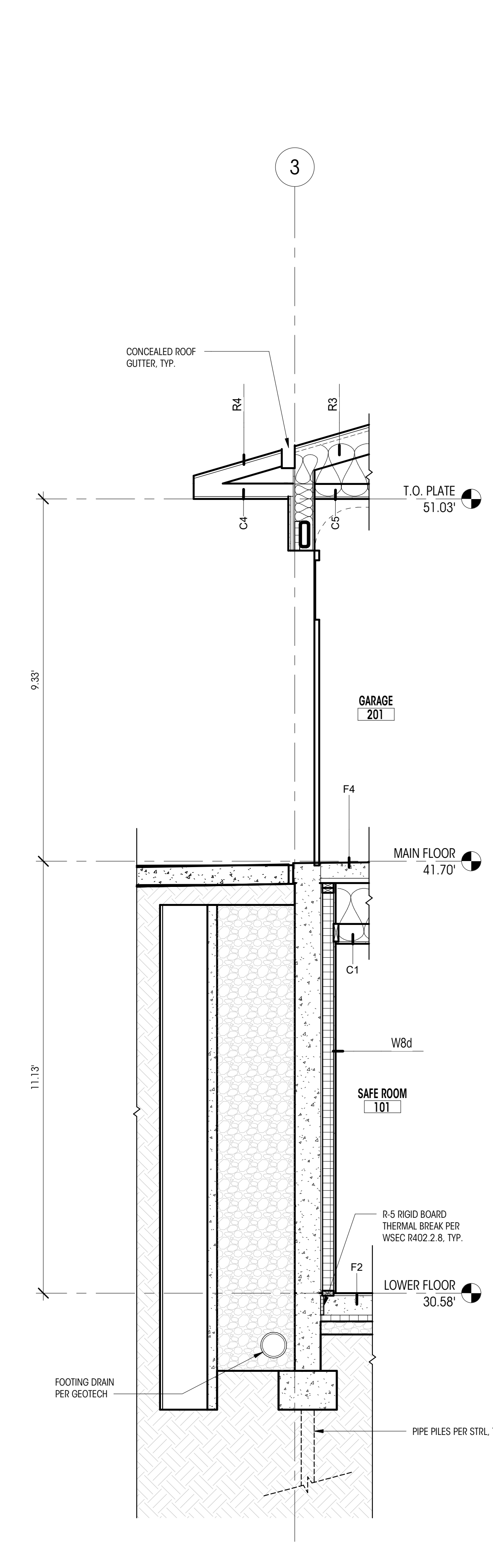
4 WALL SECTION N
1/2" = 1'-0"



1 WALL SECTION O
1/2" = 1'-0"



2 WALL SECTION P
1/2" = 1'-0"



3 WALL SECTION Q
1/2" = 1'-0"

NOTES

1. ALL DIMENSIONS AT WALLS TO FACE OF FRAMING OR TO EXT. FACE OF CONCRETE, U.N.O.
2. ALL DIMENSIONS AT KITCHEN TO EDGE OF COUNTERTOPS, U.N.O.
3. ALL DIMENSIONS ASSOCIATED WITH (2) CONSTRUCTION ARE ASSUMED. CONTRACTOR TO VERIFY ALL DIMS IN FIELD AND CONTACT ARCHITECT WITH ANY DISCREPANCIES PRIOR TO CONSTRUCTION
4. FLOOR, CEILING, AND WALL ASSEMBLIES ARE LISTED ON SHEET A701.
5. THERMAL BREAKS LOCATED AT ALL FLOORS AND WALLS TO FOUNDATIONS. THERMAL BREAKS AT ALL STRUCTURAL CONNECTIONS TO BE COORDINATED WITH STRUCTURAL ENGINEER

8480 RESIDENCE

8480 85TH AVE SE
MERCER ISLAND, WA 98040
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PERMIT SUBMITTAL SET

DATE: 03.11.22
SHEET SIZE: E (30x42)
REVISIONS
NO. DATE:

DRAWN BY: DD
CHECKED BY: KM

WALL SECTIONS

SCALE: As indicated

A414

DEDICATED
APPROVAL
STAMP SPACE

WINDOW SCHEDULE

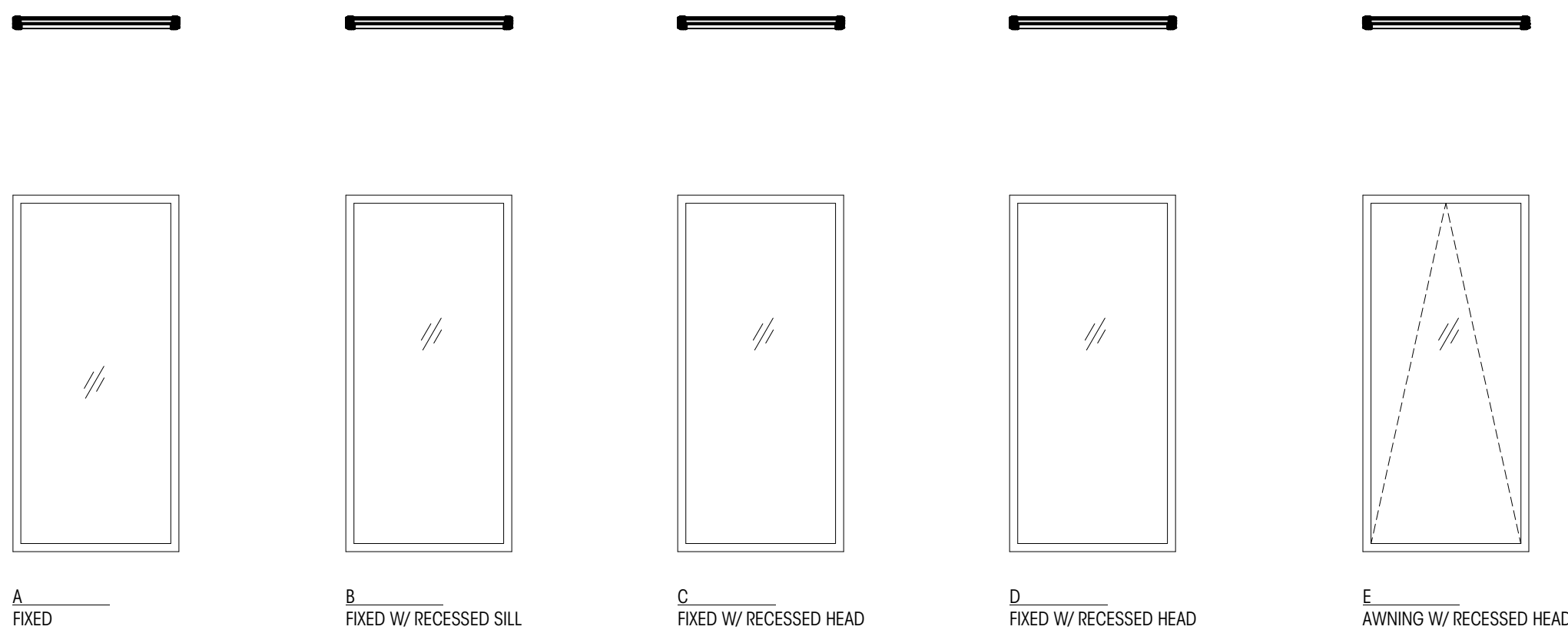
PLAN ID	TYPE	WIDTH (ft)	HEIGHT (ft)	HEAD HT	UNIT AREA (sf)	U VALUE	UA	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	SAFETY GLAZING	EGRESS	NOTES
106A	A	2'-6"	6'-0"	8'-8"	15 SF	0.27	4 SF				●		
106B	D	13'-9 1/2"	9'-5"	9'-5"	130 SF	0.26	34 SF				●		
109A	D	8'-11 1/2"	9'-5"	9'-5"	84 SF	0.26	22 SF				●		
109B	D	13'-6"	9'-5"	9'-5"	127 SF	0.26	33 SF				●		
116	A	3'-0"	6'-6"	9'-0"	20 SF	0.27	5 SF				●		
201A	C	9'-0"	2'-0"	9'-5 1/2"	18 SF	0.28	5 SF				●		2
201B	C	9'-0"	2'-0"	9'-5 1/2"	18 SF	0.28	5 SF				●		2
201C	C	9'-0"	2'-0"	9'-5 1/2"	18 SF	0.28	5 SF				●		2
202	D	11'-8"	8'-2 1/2"	8'-2 1/2"	96 SF	0.26	25 SF				●		
203A	D	7'-0"	9'-8"	9'-8"	68 SF	0.26	18 SF				●		
203B	D	3'-0"	9'-8"	9'-8"	48 SF	0.26	13 SF				●		
204A	C	7'-0"	2'-0"	9'-5 1/2"	14 SF	0.28	4 SF				●		
204B	C	6'-2"	2'-0"	9'-5 1/2"	12 SF	0.28	3 SF				●		
204C	C	7'-0"	2'-0"	9'-5 1/2"	14 SF	0.28	4 SF				●		
206A	D	11'-8"	9'-8"	9'-8"	113 SF	0.26	29 SF				●		
206B	E	4'-11"	2'-0"	9'-5 1/2"	12 SF	0.32	4 SF				●		
207	D	12'-8 1/2"	9'-8"	9'-8"	123 SF	0.26	32 SF				●		
209	D	4'-0"	9'-8"	9'-8"	39 SF	0.26	10 SF				●		
210	D	14'-0"	9'-8"	9'-8"	135 SF	0.26	35 SF				●		
211	D	12'-4"	9'-8"	9'-8"	119 SF	0.26	31 SF				●		

GENERAL NOTES

- ALL DIMENSIONS SHOWN ARE FINISHED DIMENSIONS, R.O. PER CONTRACTOR.
- CONTRACTOR TO VERIFY ALL SIZES AND DIMENSIONS IN FIELD WITH OWNER BEFORE ORDERING.
- ALL NEW WINDOWS TO BE NFRC CERTIFIED.
- ALL WINDOW WALL IS TEMPERED GLASS.
- REFER TO PLANS AND TAGS FOR LOCATION AND SWINGS.
- ALL ELEVATIONS ARE FROM THE EXTERIOR.
- ALL NEW VERTICAL FENESTRATION U-VALUE TO MEET ENERGY COMPLIANCE GUIDELINES FOR EFFICIENT BUILDING ENVELOPE OPTION 1A.
- PER IRC 601.2 ALL EGRESS OPENINGS SHALL HAVE A NET CLEAR OPENING OF NOT LESS THAN 5.7 SF. NET CLEAR HEIGHT OPENING SHALL NOT BE LESS THAN 24" AND THE NET CLEAR WIDTH SHALL BE NOT LESS THAN 20". THE WINDOW SILL SHALL HAVE HEIGHT OF NOT MORE THAN 44" ABOVE THE FLOOR.
- PER IRC 10306.4.3, GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL NEEDS TO BE TEMPERED GLASS / SAFETY GLAZING IN THE FOLLOWING HAZARDOUS LOCATIONS:
 - THE EXPOSED AREA OF AN INDIVIDUAL PANE IS LARGER THAN 9 SF.
 - THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE THE FLOOR.
 - THE TOP EDGE OF THE GLAZING IS MORE THAN 36" ABOVE THE FLOOR, AND
 - ONE OR MORE WALKING SURFACES ARE WITHIN 36", MEASURE HORIZONTALLY IN A STRAIGHT LINE OF THE GLAZING.

SPECIFIC NOTES

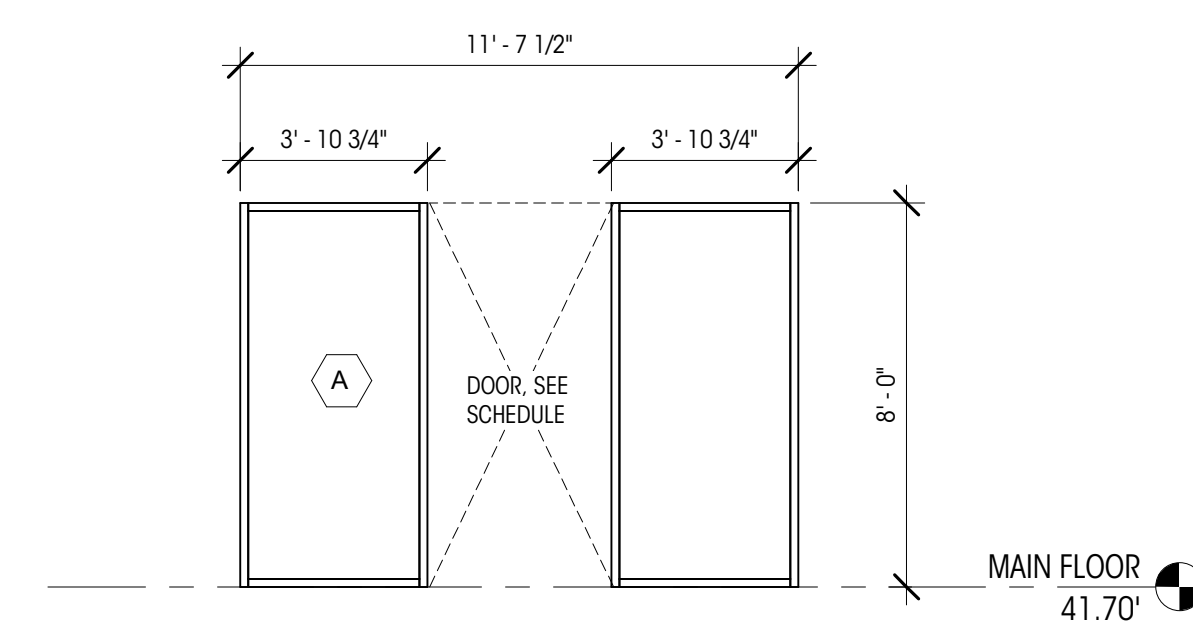
- FROSTED / OPAQUE GLAZING
- FIRE GLAZING



ARCH - WINDOW TYPES

1/4" = 1'-0"

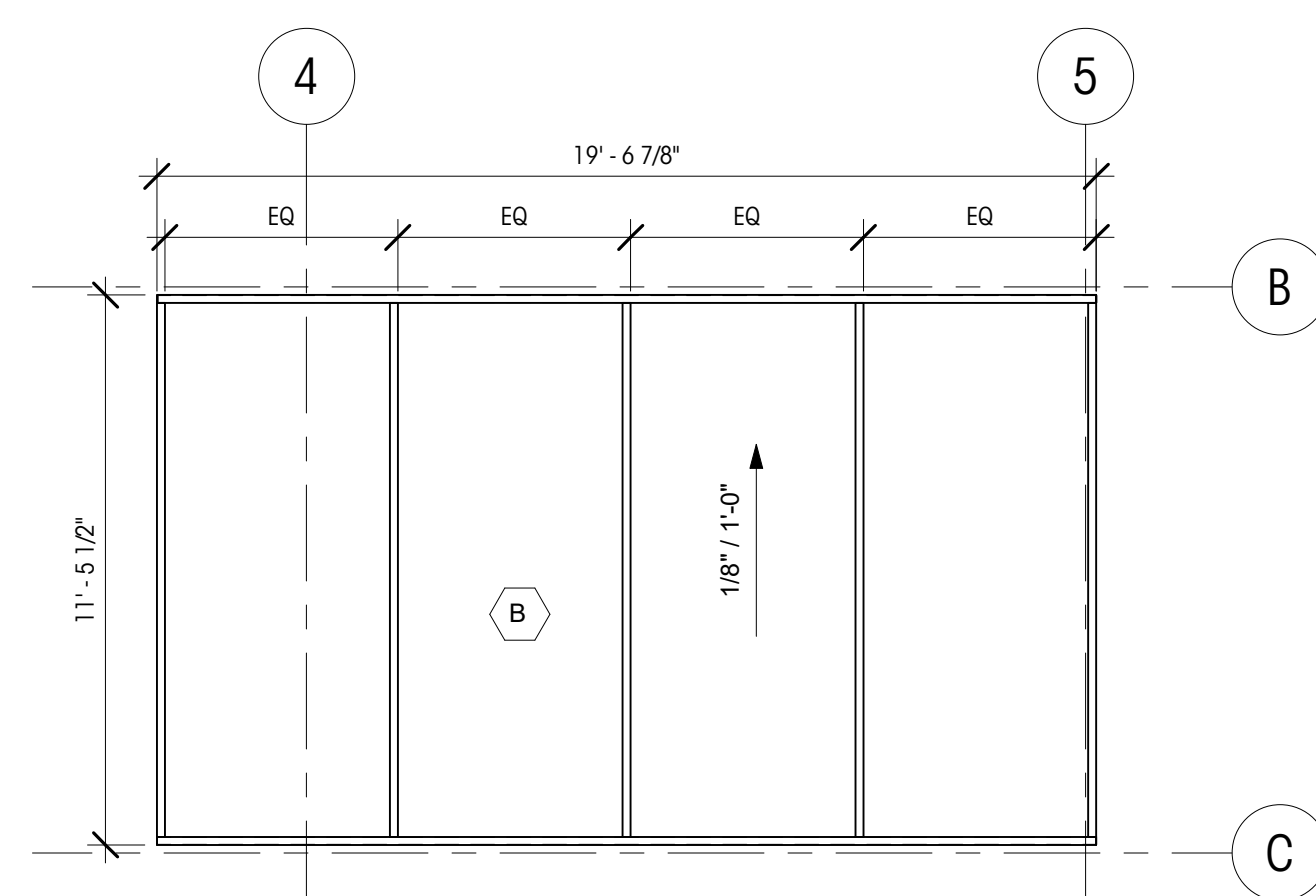
NOTE: EXACT DOOR AND WINDOW SIZES & U-VALUES TO BE VERIFIED WITH MANUFACTURER.



STOREFRONT TYPE A

1/4" = 1'-0"

U-VALUE 0.28 - DUAL GLAZED, TEMPERED LAMINATED GLASS WITH ARGON FILLED CAVITY



STOREFRONT TYPE B

1/4" = 1'-0"

U-VALUE 0.28 - DUAL GLAZED, TEMPERED LAMINATED GLASS WITH ARGON FILLED CAVITY

DOOR SCHEDULE

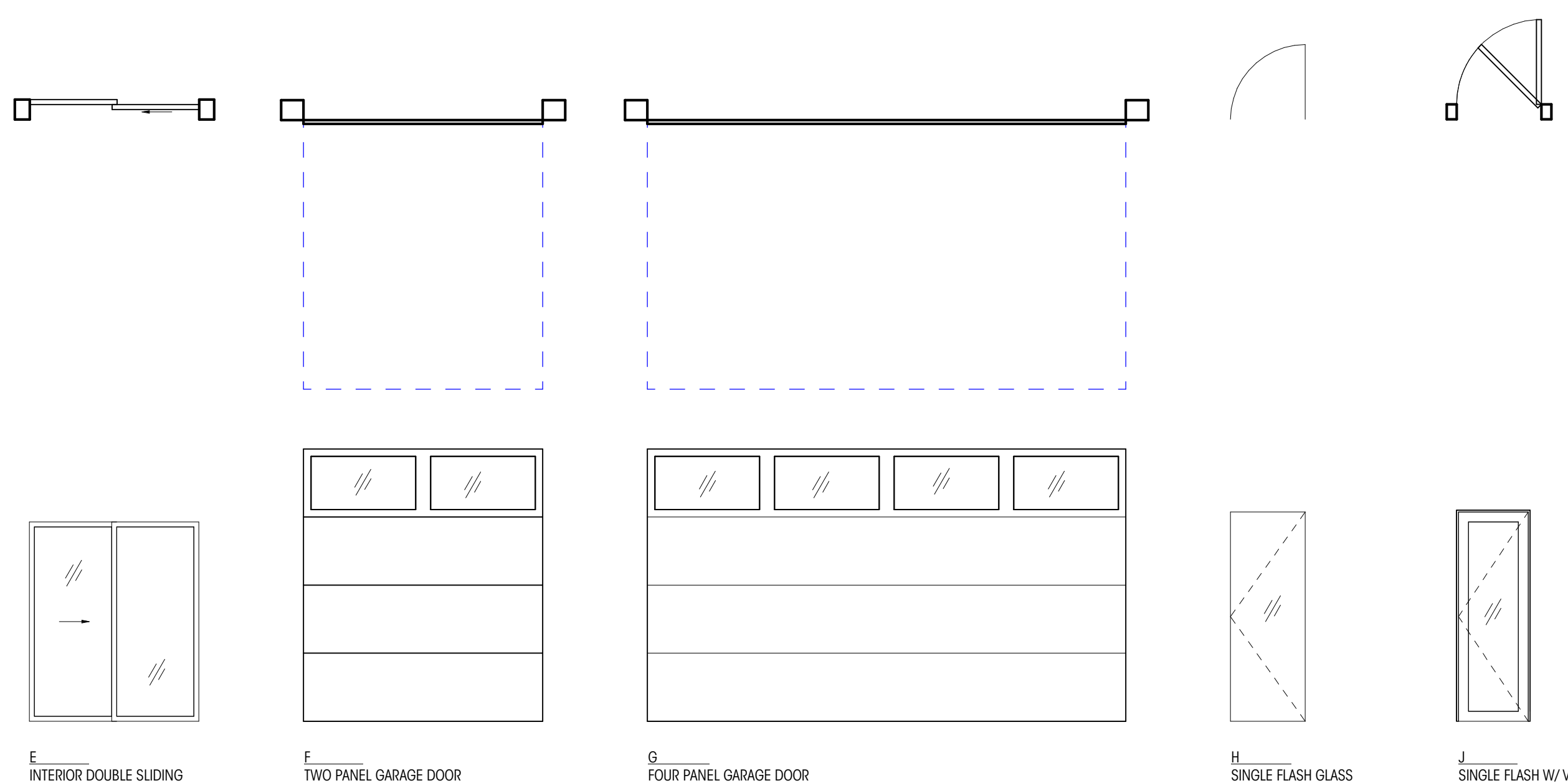
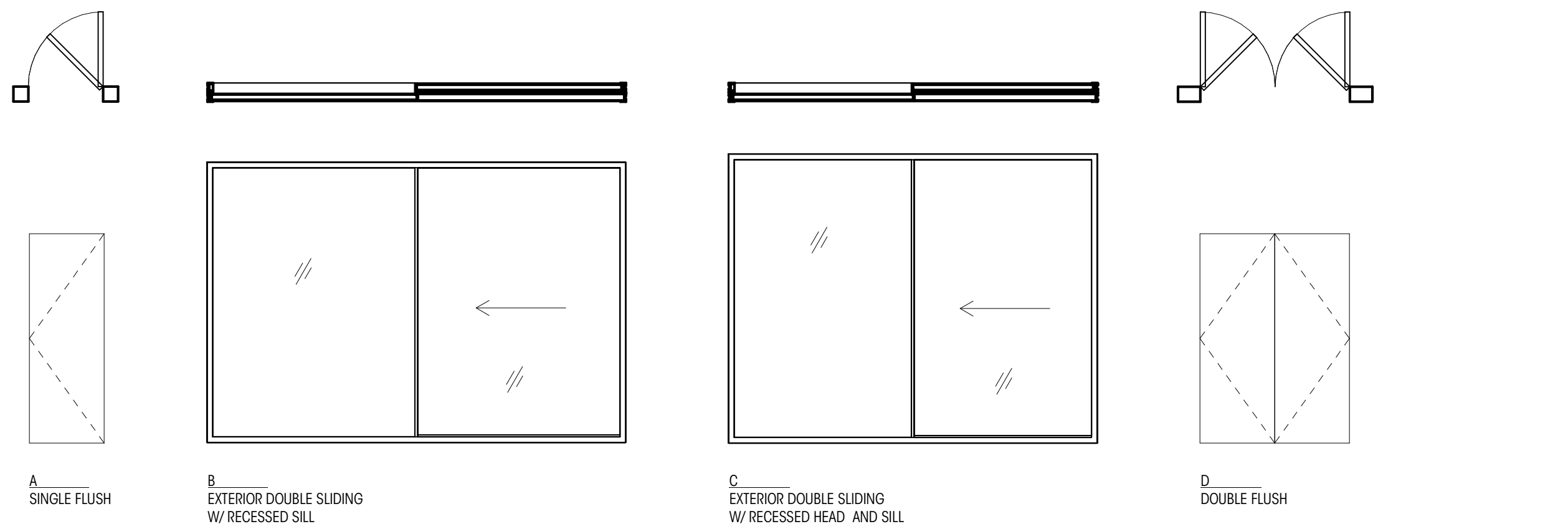
PLAN ID	ROOM NAME	TYPE	WIDTH (ft)	HEIGHT (ft)	AREA (sf)	U VALUE	UA	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	EGRESS	CLOSER	RATED	NOTES
101	SKATE ROOM	A	2'-8"	7'-0"	19 SF									
102	BATH	A	2'-6"	7'-0"	18 SF									
103	CRAFT ROOM	A	2'-8"	7'-0"	19 SF									
104	BATH 1	A	2'-8"	7'-0"	19 SF									
105	W.I.C.	A	2'-8"	7'-0"	19 SF									
106	BEDROOM 1	A	2'-8"	7'-0"	19 SF									
107	REC ROOM	A	3'-0"	7'-0"	21 SF									
108	PROJECT ROOM	A	2'-8"	7'-0"	19 SF									
109	GARDEN ROOM	C	9'-0"	9'-4 1/2"	84 SF	0.3	25 SF							
110A	REC ROOM	C	27'-9 1/2"	9'-4 1/2"	261 SF	0.28	73 SF							
110B	REC ROOM	E	4'-10 3/8"	7'-0"	34 SF									
110C	REC ROOM	E	4'-10 3/8"	7'-0"	34 SF									
111	POWDER ROOM	A	2'-6"	7'-0"	18 SF									
112	LAUNDRY	A	3'-0"	7'-0"	21 SF									
113	MECH.	A	3'-0"	7'-0"	21 SF									
114	BATH 2	A	2'-6"	7'-0"	18 SF									
115A	BEDROOM 2	A	2'-8"	7'-0"	19 SF									
115B	BEDROOM 2	E	7'-4"	7'-0"	51 SF									
115C	BEDROOM 2	C	12'-0"	9'-4 1/2"	113 SF	0.29	33 SF							
115D	BEDROOM 2	C	14'-0"	9'-4 1/2"	131 SF	0.28	37 SF							
116	BATH 3	A	2'-6"	7'-0"	18 SF									
117A	BEDROOM 3	A	2'-8"	7'-0"	19 SF									
117B	BEDROOM 3	C	12'-4"	9'-4 1/2"	116 SF	0.29	34 SF							
118A	REC ROOM	A	2'-8"	7'-0"	19 SF									
118B	HALLWAY	E	7'-9 3/4"	7'-0"	55 SF									
201A	GARAGE	A	3'-0"	7'-0"	21 SF									2
201B	GARAGE	E	9'-0"	8'-0"	72 SF									
201C	GARAGE	G	18'-0"	8'-0"	144 SF									
202	ENTRY	H	3'-10"	8'-0"	31 SF	0.28	9 SF							
204	KITCHEN	C	27'-9 1/2"	9'-8"	269 SF	0.28	75 SF							
205	DINING ROOM	C	27'-9 1/2"	9'-8"	269 SF	0.28	75 SF							
206	LIVING ROOM	B	6'-1"	7'-5 1/2"	45 SF	0.31	14 SF							
207A	OFFICE	A	2'-8"	7'-0"	19 SF									
207B	OFFICE	C	12'-6 3/4"	9'-8"	121 SF	0.28	34 SF							
208	POWDER ROOM	A	2'-8"	7'-0"	19 SF									
210A	W.I.C.	A	2'-8"	7'-0"	19 SF									
210B	W.I.C.	E	7'-11 5/8"	7'-0"	56 SF									
210C	MASTER BEDROOM	C	12'-0"	9'-8"	114 SF	0.28	32 SF							
210D	MASTER BEDROOM	K	12'-4"	9'-8"	119 SF									
211A	MASTER BATH	J	2'-4"	7'-0"	16 SF									
211B	MASTER BATH	J	2'-4"	7'-0"	16 SF									
211C	MASTER BATH	C	8'-4"	9'-8"	81 SF	0.3	24 SF							

GENERAL NOTES

- ALL NEW DOORS TO BE NFRC CERTIFIED.
- ALL NEW VERTICAL FENESTRATION U-VALUE TO MEET ENERGY COMPLIANCE GUIDELINES FOR EFFICIENT BUILDING ENVELOPE OPTION 1A.
- ALL DOORS TO BE SOLID-CORE WOOD VENEER FLAT PANELS LINO
- ALL GLAZED DOORS TO RECEIVE TEMPERED / SAFETY GLAZING

SPECIFIC NOTES

- FROSTED / OPAQUE GLAZING
- 2 HOUR RATED STEEL DOOR



ARCH - DOOR TYPES

1/4" = 1'-0"

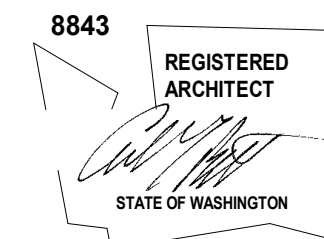
Brandt

Design Group

66 Bell Street
Unit 1
Seattle, WA
98121

206.239.0850

brandtdesigninc.com



8480 RESIDENCE
8480 85TH AVE SE
MERCER ISLAND, WA 98040
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PERMIT SUBMITTAL SET

DATE: 03.11.22

SHEET SIZE: E (30X42)

REVISIONS
NO. DATE:

DRAWN BY: DD
CHECKED BY: KMI

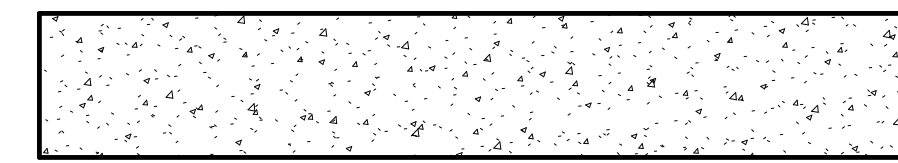
DOOR / WINDOW
SCHEDULES,
LEGENDS, & NOTES

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

A601

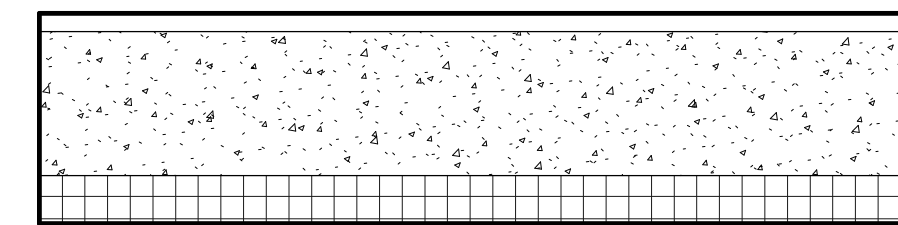
DEDICATED
APPROVAL
STAMP SPACE

HORIZONTAL ASSEMBLIES



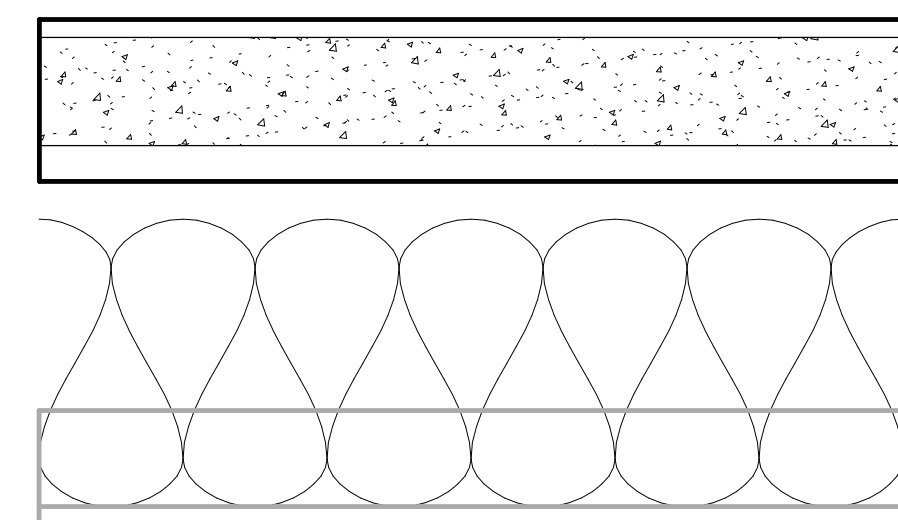
F1

4" CONCRETE
VAPOR BARRIER



F2

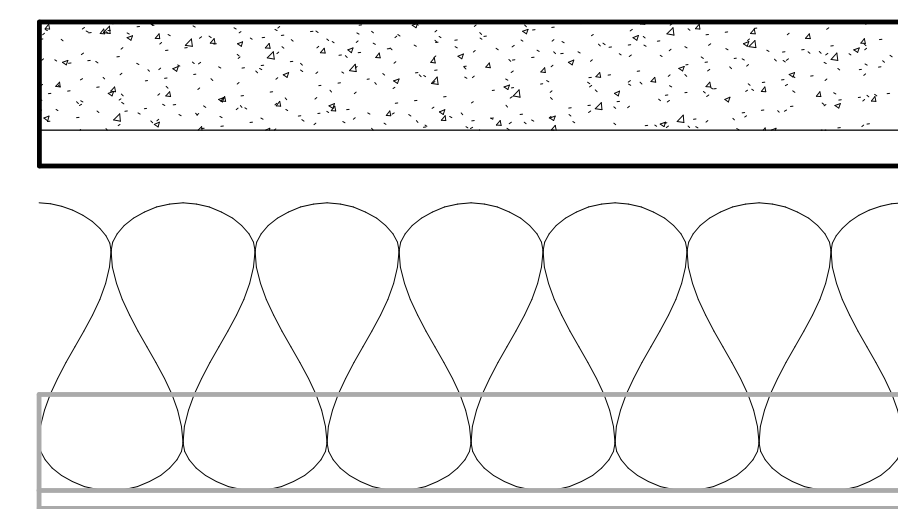
3/4" FLOOR FINISH
6" CONCRETE W/ RADIANT
VAPOR BARRIER
2" RIGID INSULATION



F3

3/4" FLOOR FINISH
4-1/2" CONCRETE W/ RADIANT
1-1/2" METAL DECK
SOUND BATT INSULATION

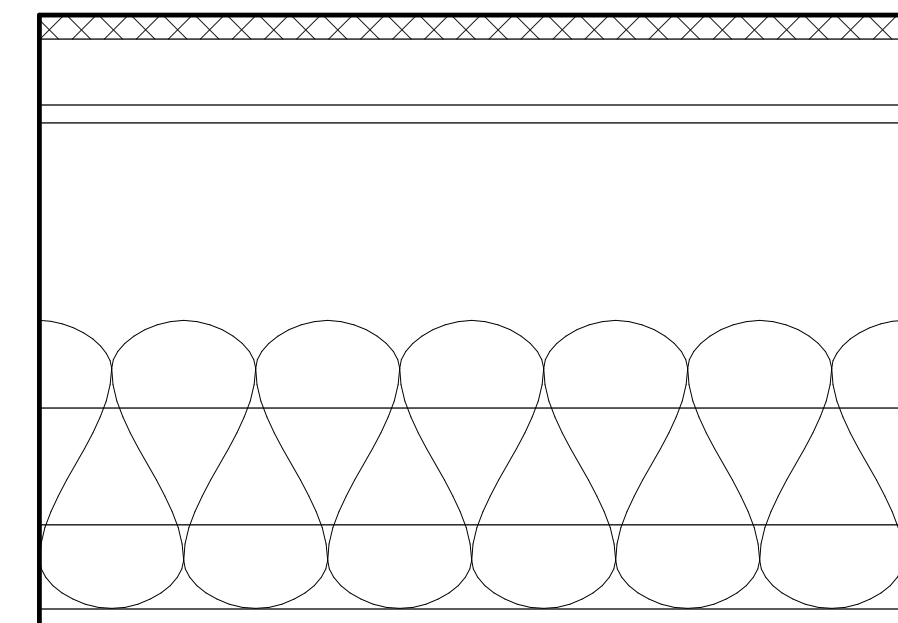
CEILING ASSEMBLY BELOW. SEE SECTIONS



F4

4-1/2" CONCRETE (MIN HEIGHT, SLOPE TO
DRAIN PER PLANS)
1-1/2" METAL DECK
R-38 INSULATION

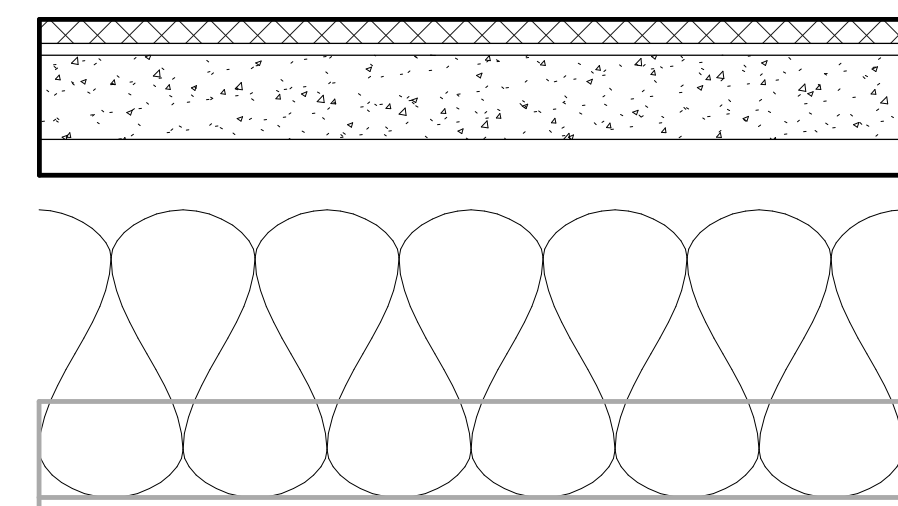
CEILING ASSEMBLY BELOW. SEE SECTIONS



F5

1" TILE DECKING
PEDESTAL SUPPORTS OR RIPPED FURRING STRIPS
"MEMBRANE" OR APPROVED ALTERNATE MEMBRANE*
TAPERED POLYISO INSULATION - SLOPED AT 1/8" / 12"
3/4" PLYWOOD
FLOOR FRAMING PER STRUCTURAL
AIR GAP AS REQUIRED TO ACHIEVE TOTAL ASSEMBLY DEPTH
PER SECTIONS
2x4 WOOD FRAMING
R-38 INSULATION ABOVE ALL INTERIOR SPACE
3/4" WOOD FINISH AT EXTERIOR / 5/8" GWB AT INTERIOR

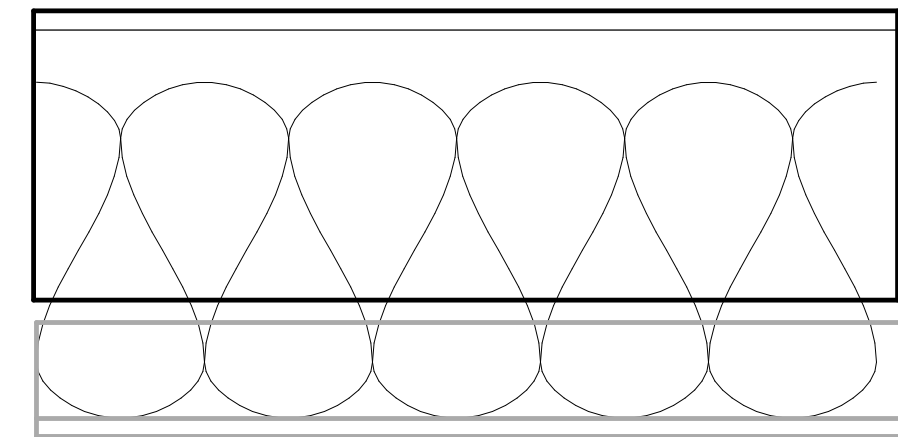
*WATERPROOFING MUST BE APPROVED FOR USE AS A
WALKING DECK AND FOR THE INSTALLATION OF THE
DECKING DIRECTLY ON TOP OF THE MEMBRANE PER ICC-ES
WALKING DECKS CRITERIA



F6

1" TILE DECKING
1/2" MORTAR BED
3-1/2" CONCRETE (MIN HEIGHT, SLOPE TO
DRAIN PER PLANS)
1-1/2" METAL DECK
R-38 INSULATION

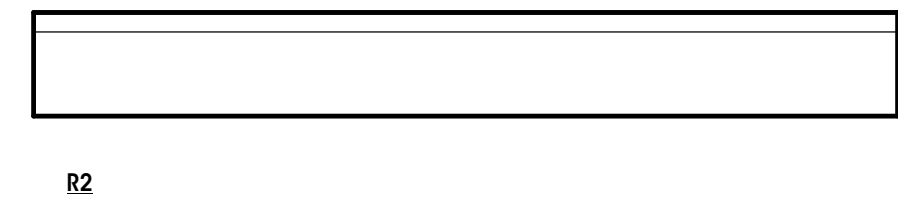
CEILING ASSEMBLY BELOW. SEE SECTIONS



R1

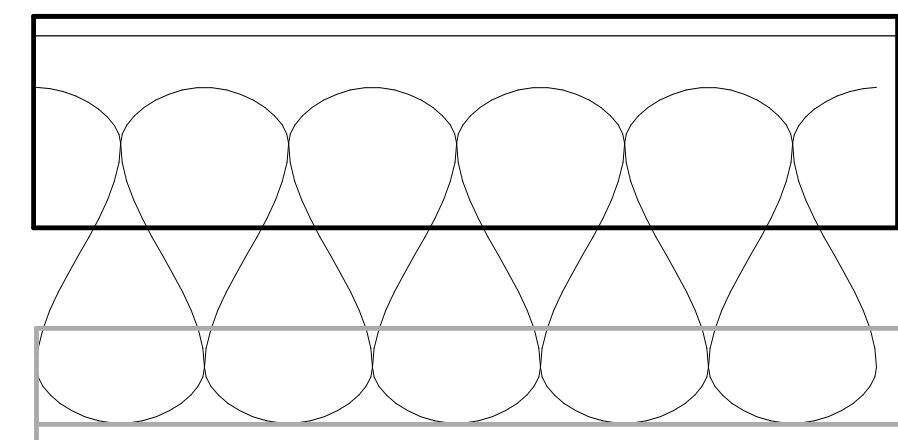
STANDING SEAM METAL ROOFING
ROOFING MEMBRANE
3/4" PLYWOOD
R-49 INSULATION
WOOD FRAMING PER STRUCTURAL

CEILING ASSEMBLY BELOW. SEE SECTIONS



R2

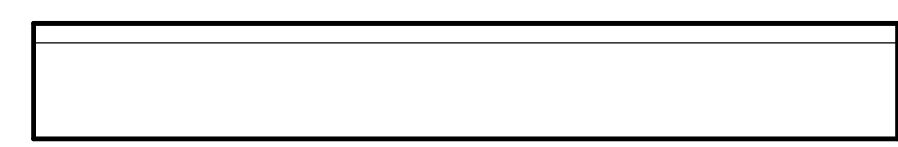
STANDING SEAM METAL ROOFING
ROOFING MEMBRANE
3/4" PLYWOOD
WOOD FRAMING PER STRUCTURAL



R3

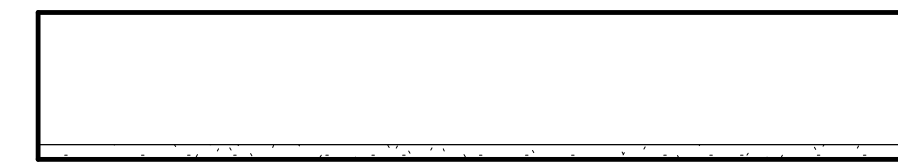
STANDING SEAM METAL ROOFING
ROOFING MEMBRANE
3/4" FIRE TREATED PLYWOOD
R-49 INSULATION
LIGHT GAUGE METAL FRAMING PER STRUCTURAL

CEILING ASSEMBLY BELOW. SEE SECTIONS



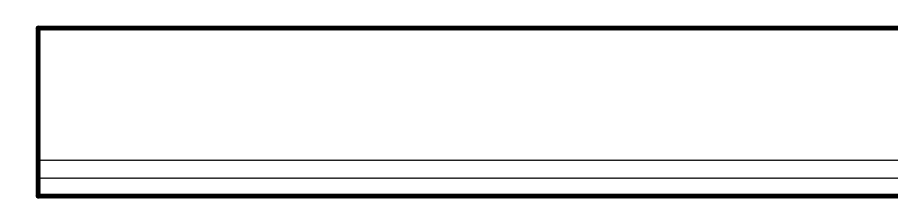
R4

STANDING SEAM METAL ROOFING
ROOFING MEMBRANE
3/4" FIRE TREATED PLYWOOD
LIGHT GAUGE METAL FRAMING PER STRUCTURAL



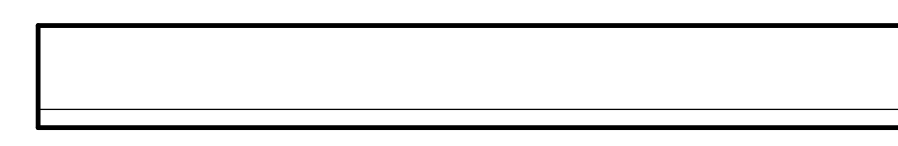
C1

WOOD FRAMING PER STRUCTURAL
5/8" GWB



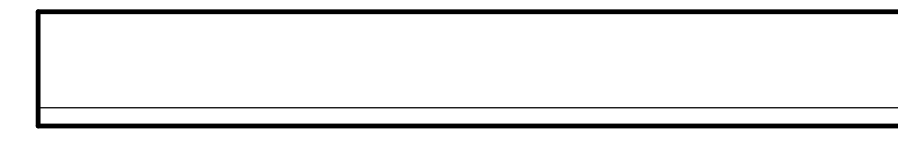
C2

WOOD FRAMING PER STRUCTURAL
3/4" PLYWOOD SHEATHING
3/4" WOOD FINISH



C3

FLAT WOOD FRAMING
3/4" WOOD FINISH



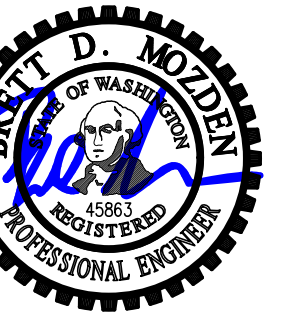
C4

LIGHT GAUGE METAL FRAMING PER STRUCTURAL
3/4" WOOD FINISH



C5

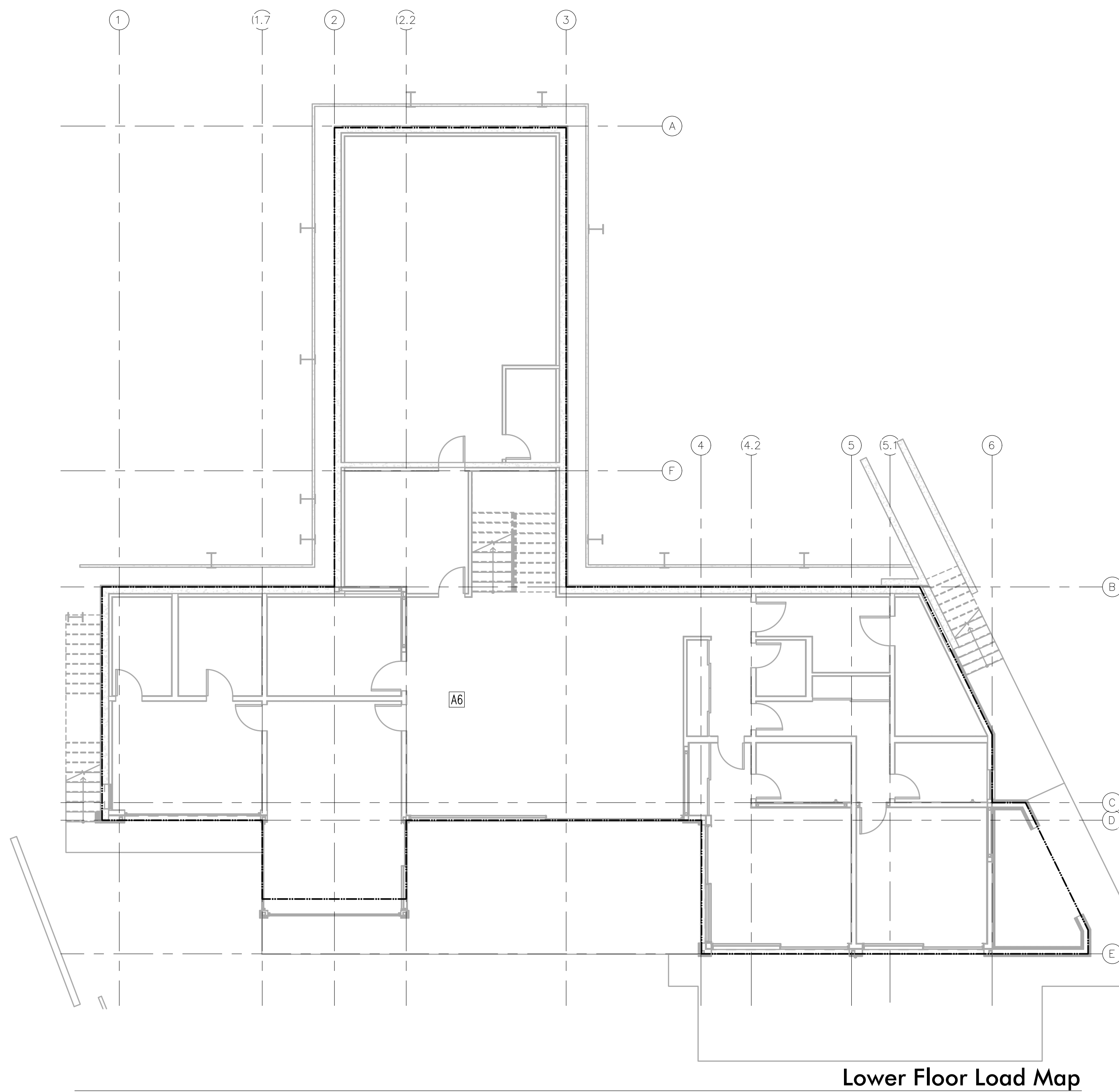
LIGHT GAUGE METAL FRAMING PER STRUCTURAL
5/8" GWB



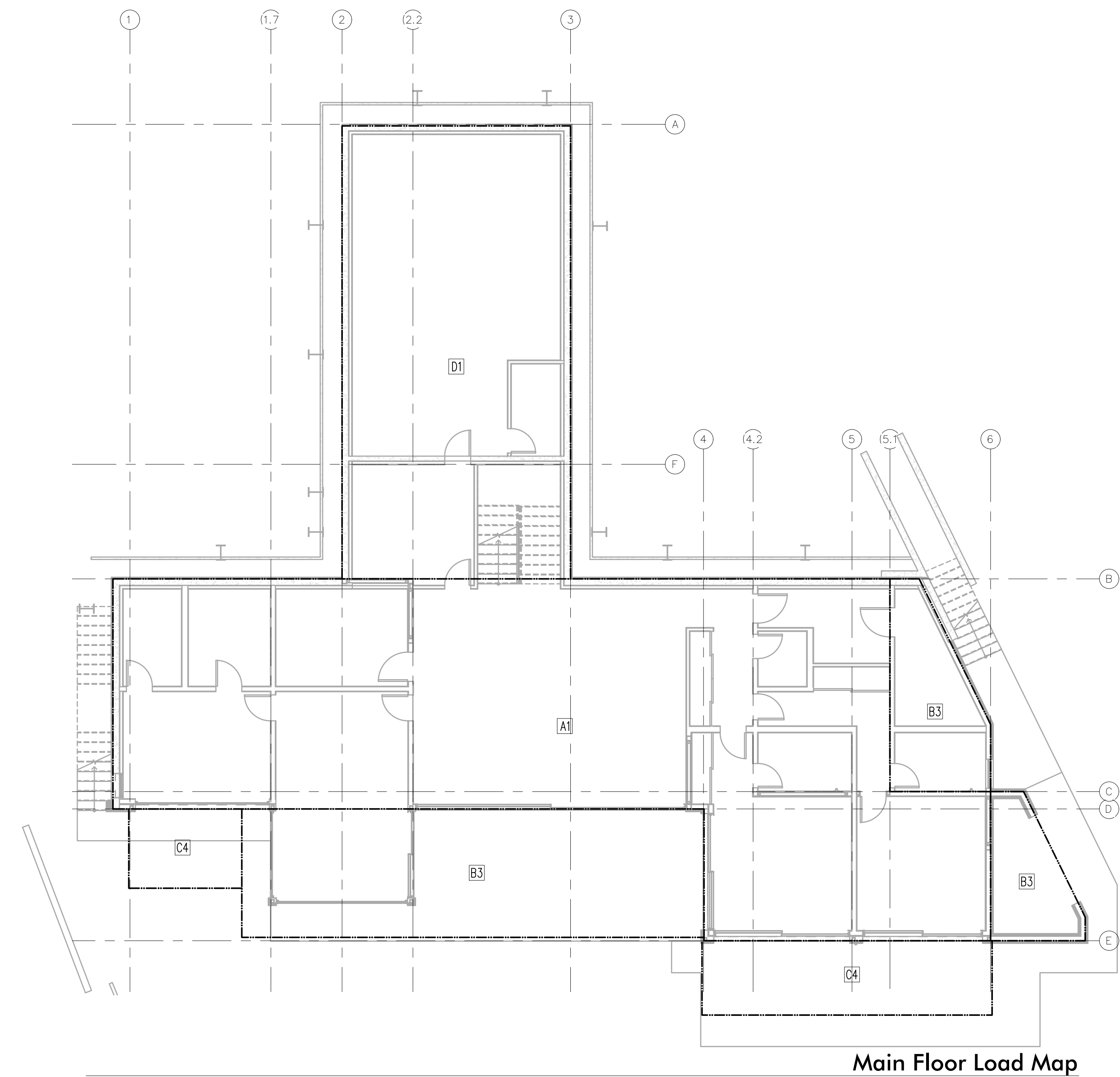
DESIGN: HAA, SRW
 DRAWN: NHD
 CHECKED: SRW
 APPROVED: BDM

REVISIONS:

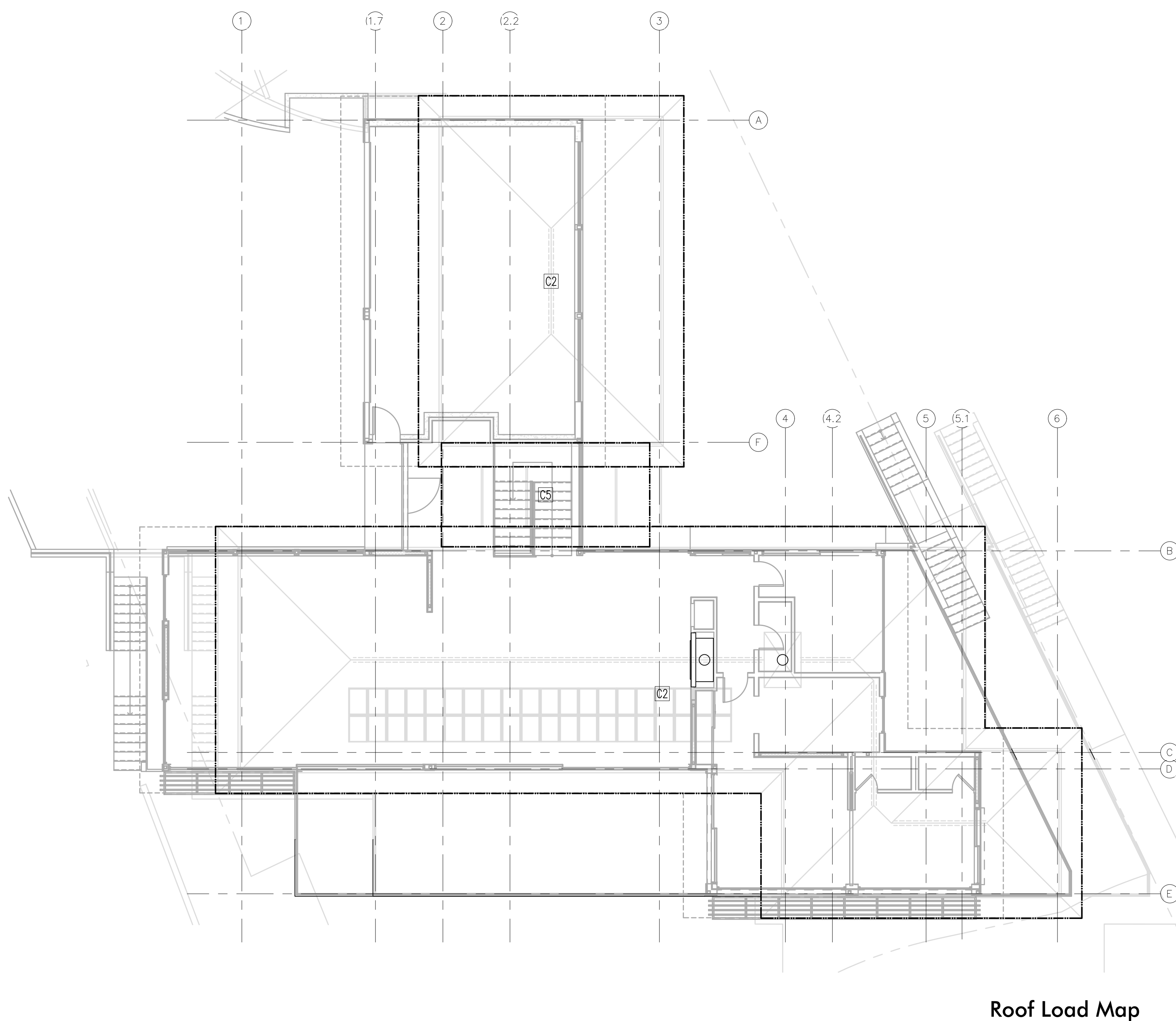
JURISDICTIONAL APPROVAL STAMP:



Lower Floor Load Map



Main Floor Load Map



Roof Load Map

Load Map Key

NUMBER INDICATES SUPERIMPOSED DEAD LOAD MARK
 LETTER INDICATES LIVE LOAD

Live Load (LL) Designations

MARK	USE	LIVE LOAD (psf)
A	RESIDENTIAL	40
B	BALCONY/DECK	60
C	ROOF/SNOW	25
D	GARAGE/PARKING	40 ^①
E		
F		
G		
H		
J		

① AT GARAGE FLOOR, UNIFORM LIVE LOAD AS NOTED IN THE SCHEDULE OR 3000 LB CONCENTRATED LOAD FOR PASSENGER VEHICLES APPLIES.

Dead Load (DL) and Superimposed Dead Load (SDL) Designations

MARK	TYPE	TOTAL DL = SELF WEIGHT + SDL (psf)	SELF WEIGHT (psf)	SELF WEIGHT NOTES	TOTAL SDL (psf)	CEILING/MEP LOAD (psf)	SPECIAL LOAD (psf)	SPECIAL LOAD DESCRIPTION/NOTES
1	MAIN FLOOR	73	68	4 1/2" CONC. ON 1 1/2" DECK	5	5		
2	ROOF	20	5	STEEL FRAMING, RAFTERS, & SHEATHING	15	5	10	ROOFING & SOLAR PANELS
3	DECK	25	5	JOISTS & SHEATHING	20	5	15	CONCRETE PAVERS (1 1/4" max.)
4	TRELLIS ROOF	7.5	2.5	RAFTERS	5	5		
5	GLASS ROOF	30	25	GLAZING & STEEL FRAMING	5	5		
6	LOWER FLOOR	75	75	6" CONCRETE SLAB	5			

* SELF WEIGHT OF STEEL FRAMING NOT INCLUDED IN MAIN FLOOR LOADING

PROJECT TITLE:
8480 Residence
 8480 85th Ave SE
 Mercer Island, WA 98040

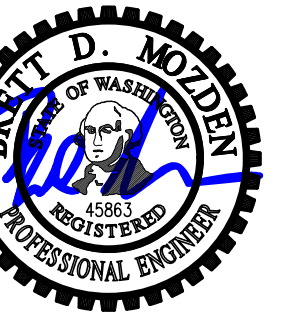
ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH: 206.239.0850
 brandtdesigninc.com

ISSUE:
PERMIT

SHEET TITLE:
Load Maps

SCALE: N.T.S.
 DATE: March 11, 2022
 PROJECT NO: 01519-2021-09
 SHEET NO:

S1.2



DESIGN: HAA, SRW
 DRAWN: NHD
 CHECKED: SRW
 APPROVED: BDM

REVISIONS:

NO.	DESCRIPTION

JURISDICTIONAL APPROVAL STAMP:

PROJECT TITLE:

8480 Residence
 8480 85th Ave SE
 Mercer Island, WA 98040

ARCHITECT:

Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH: 206.239.0850
 brandtdesigninc.com

ISSUE:

PERMIT

SHEET TITLE:

**Lower Floor/
 Foundation Plan**

SCALE:

1/4" = 1'-0" U.N.O.

DATE:

March 11, 2022

PROJECT NO:

01519-2021-09

SHEET NO:

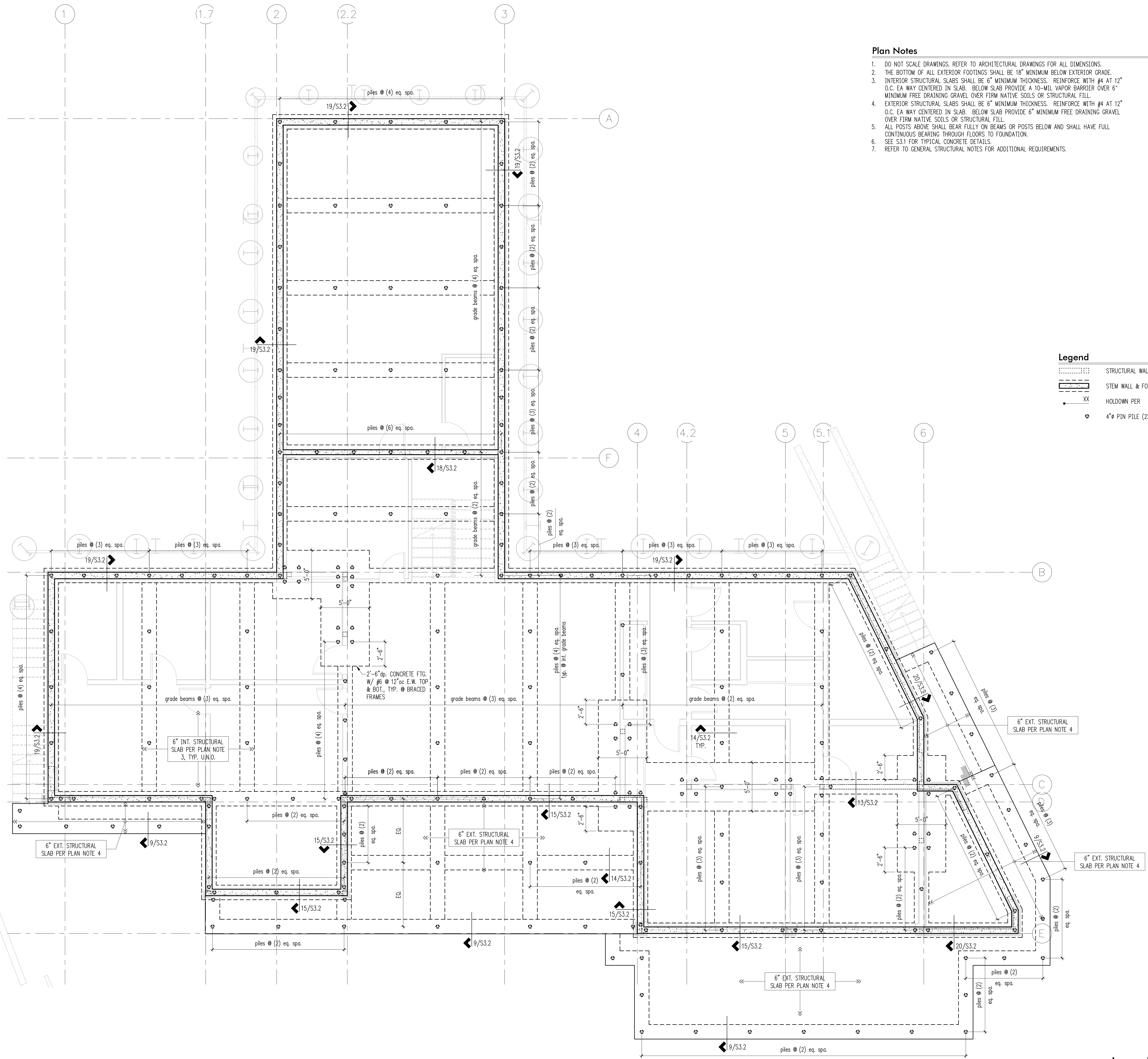
S2.1

Plan Notes

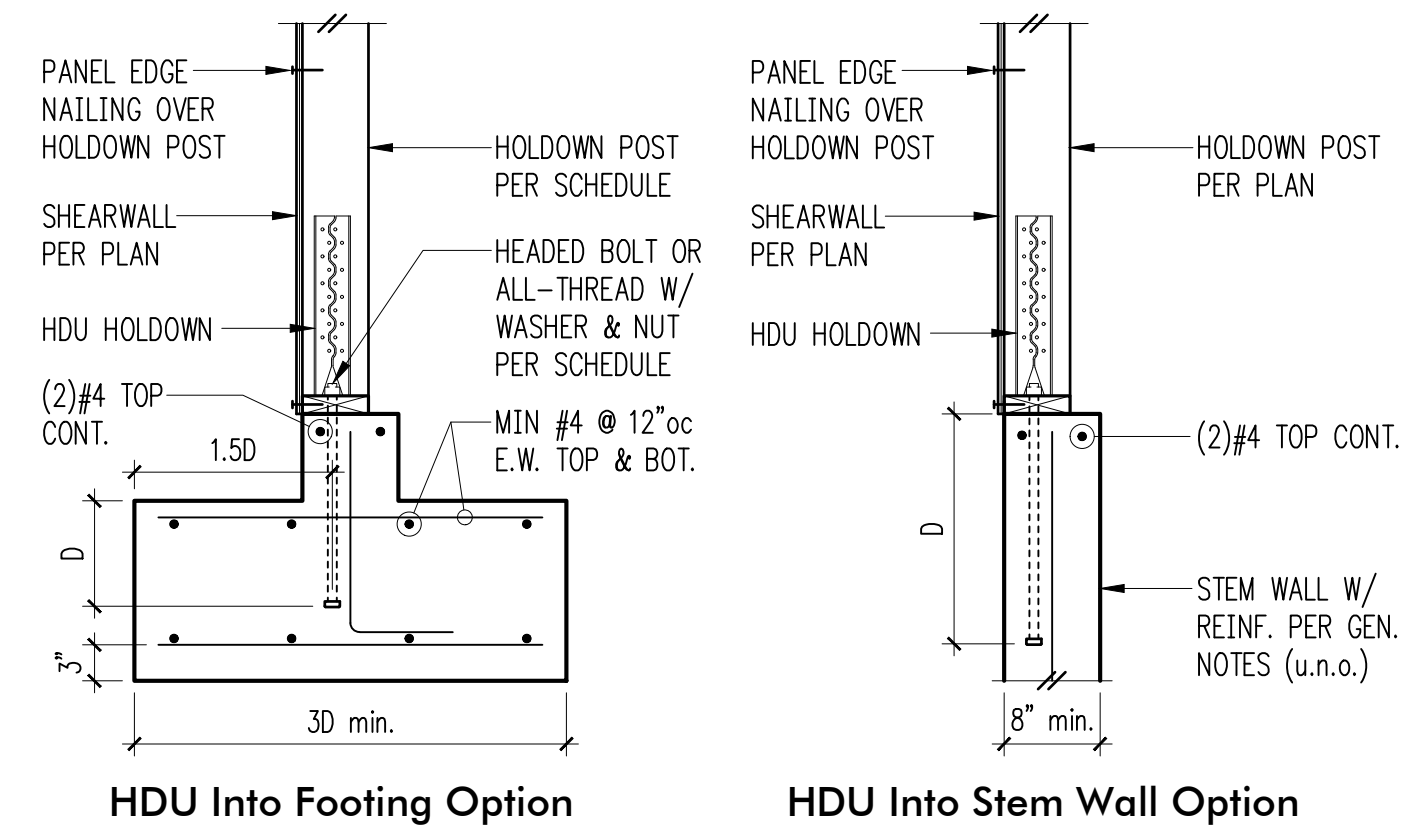
- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
- THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 18" MINIMUM BELOW EXTERIOR GRADE.
- INTERIOR STRUCTURAL SLABS SHALL BE 6" MINIMUM THICKNESS. REINFORCE WITH #4 AT 12" O.C. EA WAY CENTERED IN SLAB. BELOW SLAB PROVIDE A 10-MIL VAPOR BARRIER OVER 6" MINIMUM FREE DRAINING GRAVEL OVER FIRM NATIVE SOILS OR STRUCTURAL FILL.
- EXTERIOR STRUCTURAL SLABS SHALL BE 6" MINIMUM THICKNESS. REINFORCE WITH #4 AT 12" O.C. EA WAY CENTERED IN SLAB. BELOW SLAB PROVIDE 6" MINIMUM FREE DRAINING GRAVEL OVER FIRM NATIVE SOILS OR STRUCTURAL FILL.
- ALL POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE FULL CONTINUOUS BEARING THROUGH FLOORS TO FOUNDATION.
- SEE S3.1 FOR TYPICAL CONCRETE DETAILS.
- REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

Legend

- STRUCTURAL WALL OR POST ABOVE
- STEM WALL & FOOTING
- HOLDDOWN PER
- 4" PIN PILE (223 total this sheet)



Lower Floor/Foundation Plan
 Scale: 1/4" = 1'-0"



HDU Into Footing Option

HDU Into Stem Wall Option

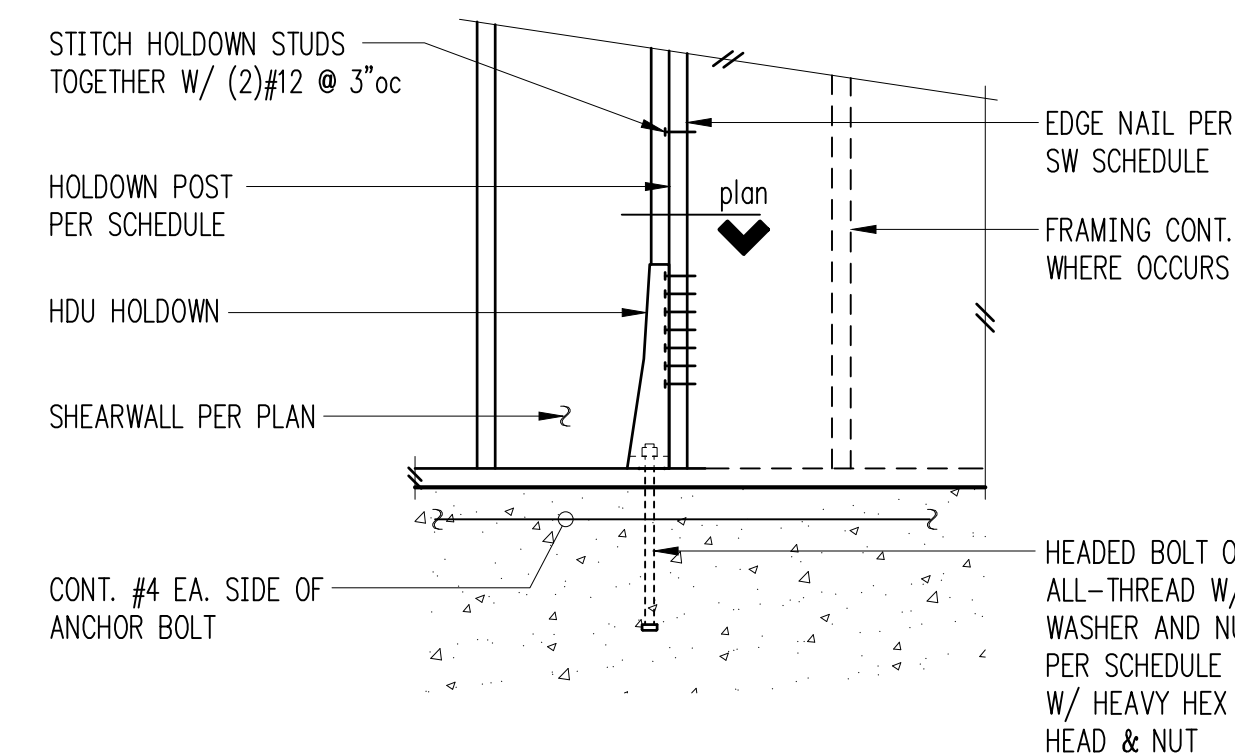
1

Holdown Schedule

Plan Mark	Screws	Anchor Bolt	Min. A.B. Embed (D)	Holdown Post
			Stem Wall	Footing
HDU2-SDS2.5	(6)SDS 1/4"x2 1/2"	3/8"Ø	12"	4"
HDU4-SDS2.5	(10)SDS 1/4"x2 1/2"	3/8"Ø	18"	6"
HDU5-SDS2.5	(14)SDS 1/4"x2 1/2"	3/8"Ø	5Ø9x24	7"
HDU8-SDS2.5	(20)SDS 1/4"x2 1/2"	7/8"Ø	SSTB28	8"
HDU11-SDS2.5	(30)SDS 1/4"x2 1/2"	1"Ø	SBIx30	10"
HDU14-SDS2.5	(36)SDS 1/4"x2 1/2"	1"Ø	N/A	12"

① MINIMUM SIZE OF POST AT END OF WALL UNLESS OTHERWISE NOTED ON FRAMING PLANS.

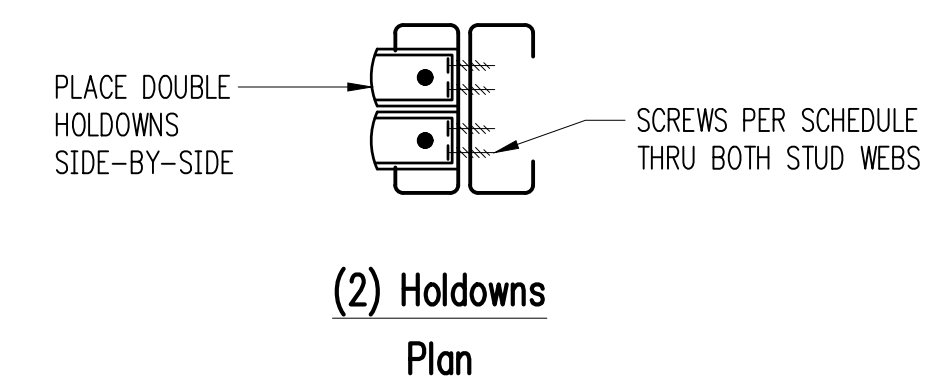
Typical HDU Holdown 3



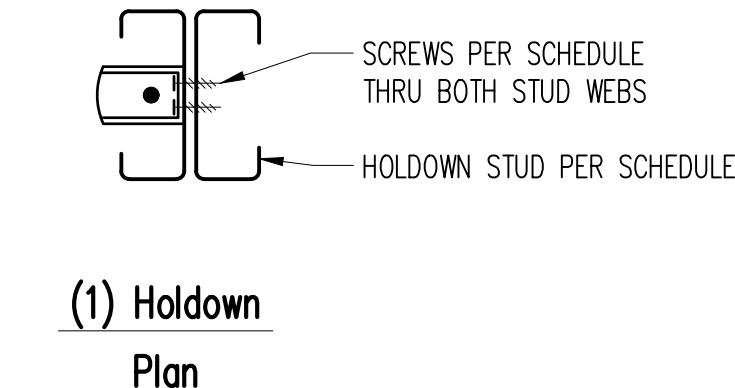
Holdown Schedule

Holdown	Screws	Anchor Bolt	A.B. Embed	Holdown Post
S/HDU4	(6)#14	3/8"Ø	11 1/2"	(2)550S200-43
(2)S/HDU6	(12)#14	3/8"Ø	11 1/2"	(2)550S200-97
(2)S/HDU9	(18)#14	7/8"Ø	11 1/2"	(2)550S200-97

① MINIMUM SIZE OF POST AT END OF WALL UNLESS OTHERWISE NOTED ON FRAMING PLANS.
 ② SEE PLANS FOR HOLDOWN LOCATIONS.
 ③ HOLDOWN POST STUDS SHALL BE BACK TO BACK.

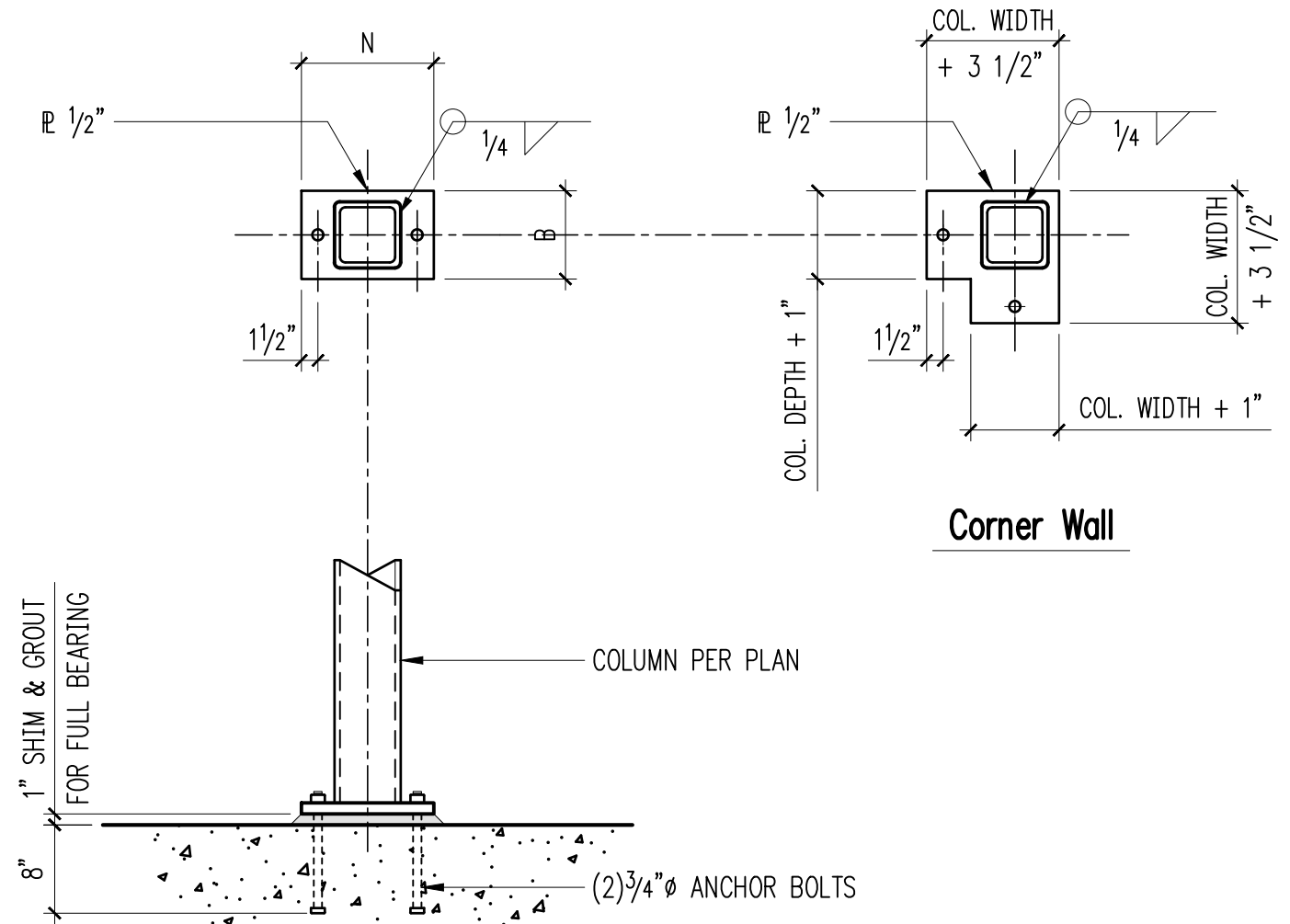


(2) Holdowns Plan



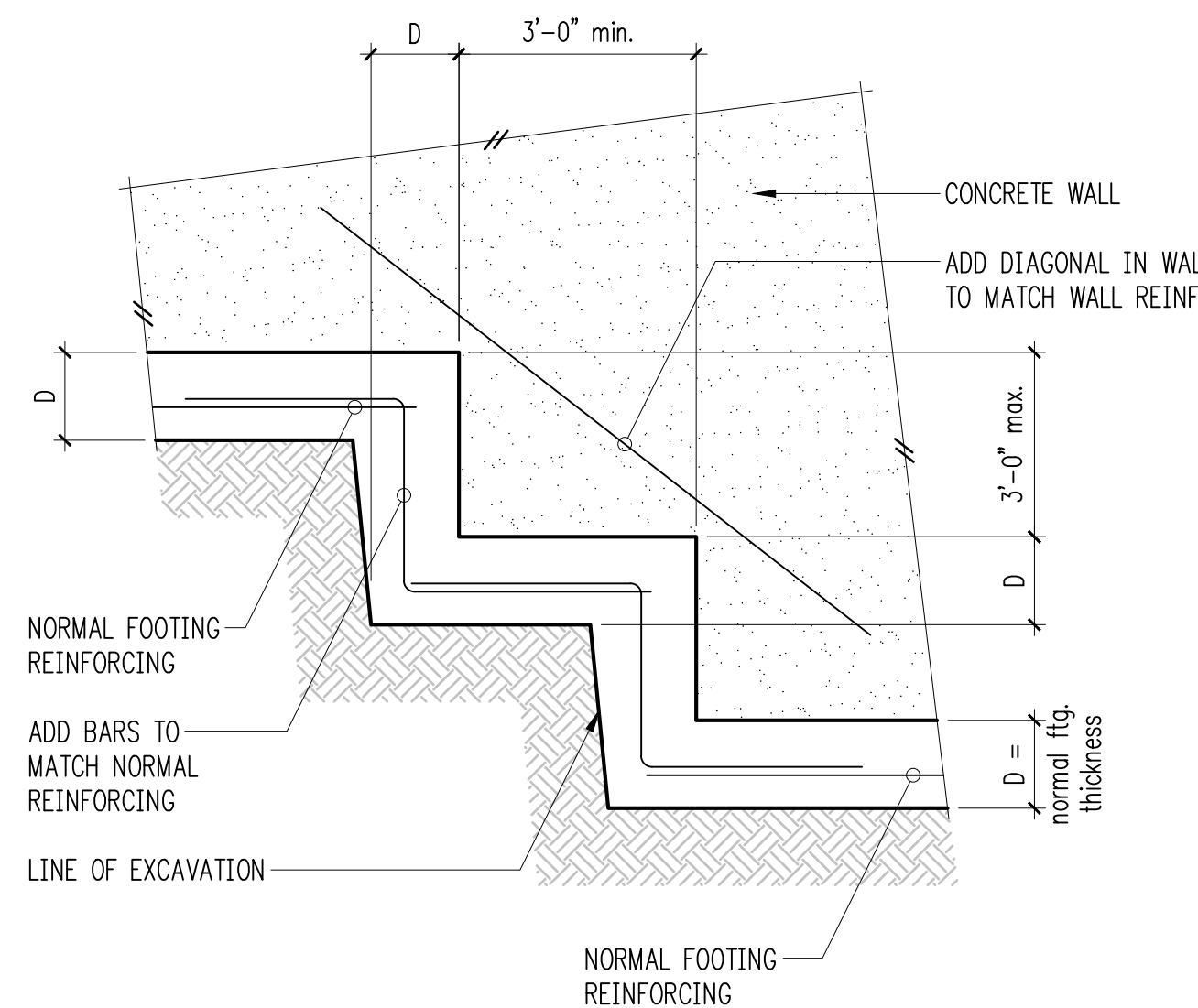
(1) Holdown Plan

Typical S/HDU Holdown Details and Schedule 5

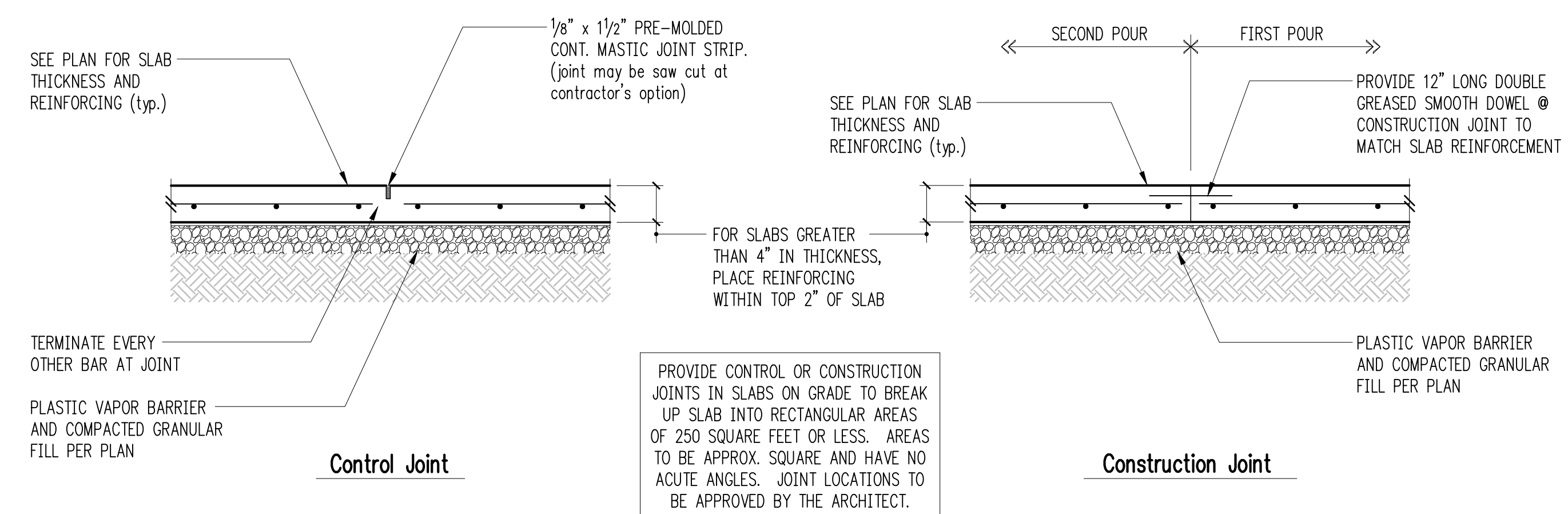


Baseplate - HSS Column 7

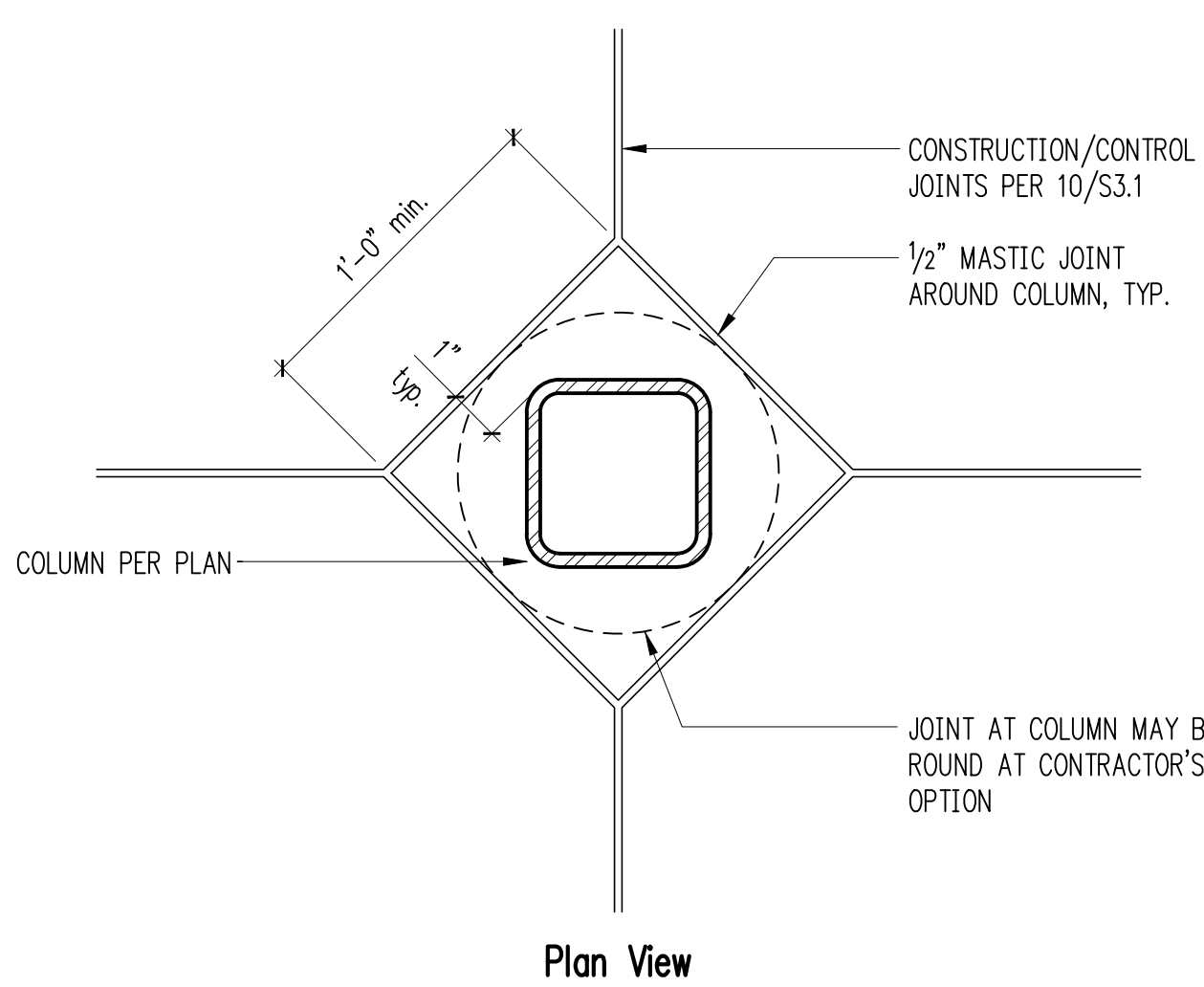
6



Typical Stepped Footing 8

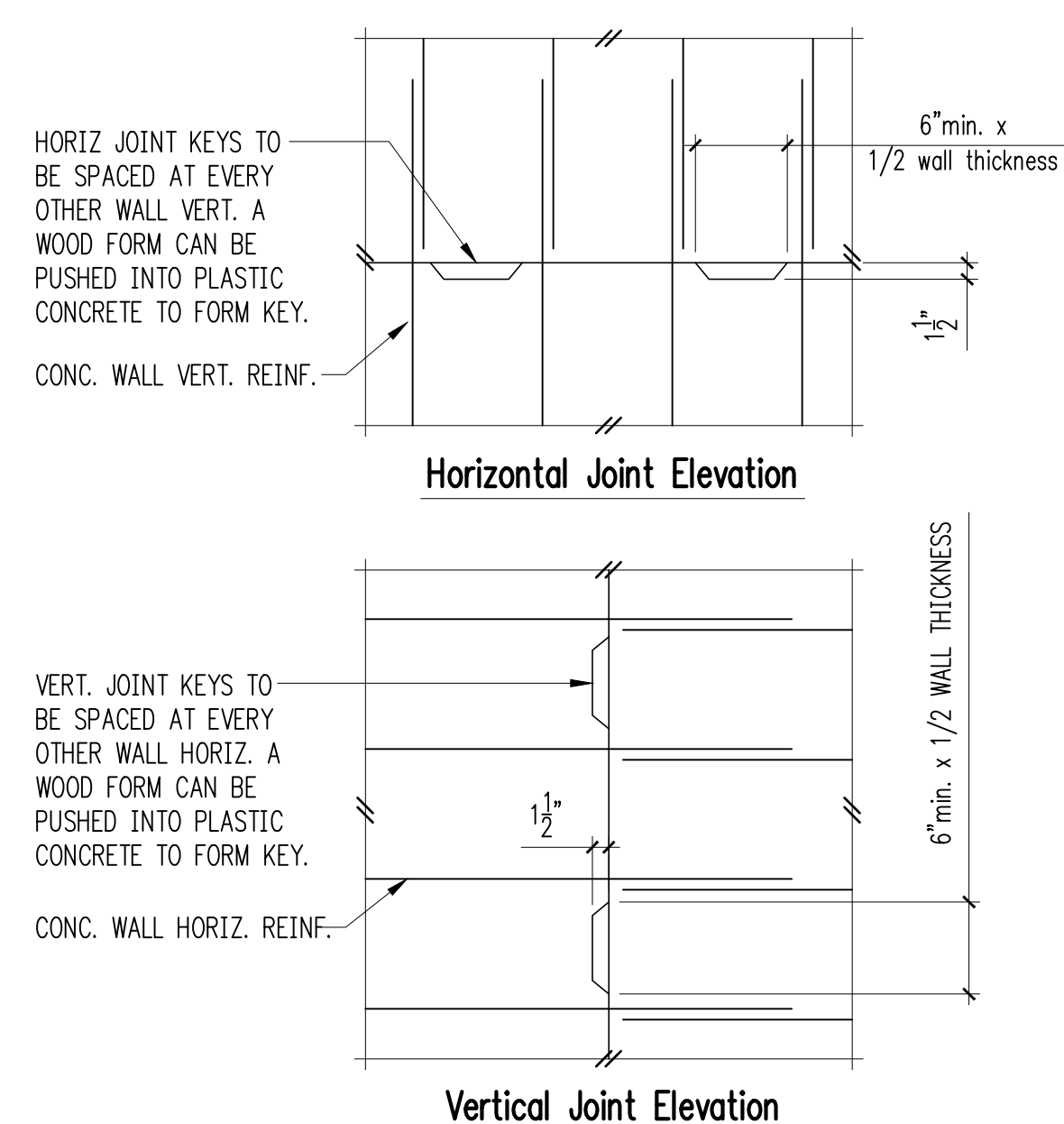


Typical Slab Joints 10



Typical Slab Isolation Joint 11

11



Typical Concrete Wall Construction Joint 12

12

Reinforcing Splice and Development Length Schedule

For $f_c = 4000$ psi, Grade 60 Reinforcing

Minimum Straight Development Length (l_d)		
Bar Size	Top Bars	Other Bars
#3	19"	15"
#4	25"	19"
#5	31"	24"
#6	37"	29"
#7	54"	42"
#8	62"	48"
#9	70"	54"
#10	79"	61"
#11	87"	67"

Minimum Lap Splice Lengths (l_s)		
Bar Size	Top Bars	Other Bars
#3	24"	19"
#4	32"	25"
#5	40"	31"
#6	48"	37"
#7	70"	54"
#8	81"	62"
#9	91"	70"
#10	102"	79"
#11	113"	87"

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

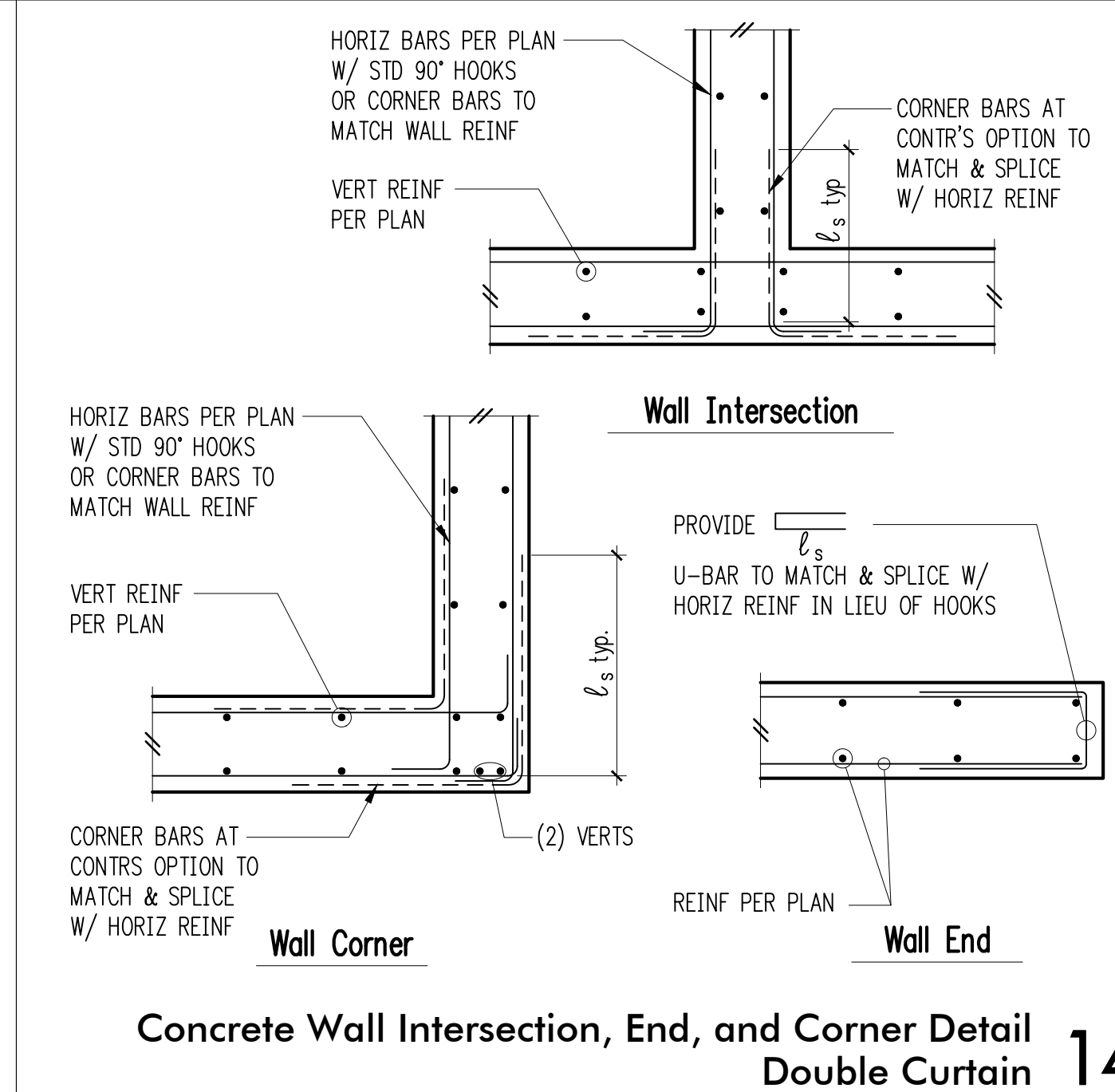
IF CLEAR CONCRETE COVER IS NOT GREATER THAN THE DIAMETER OF THE BAR, OR THE CENTER TO CENTER SPACING IS NOT GREATER THAN 3 BAR DIAMETERS, THEN LENGTHS SHALL BE INCREASED BY 50%

Minimum Embedment Lengths (l_{dh}) For Standard End Hooks

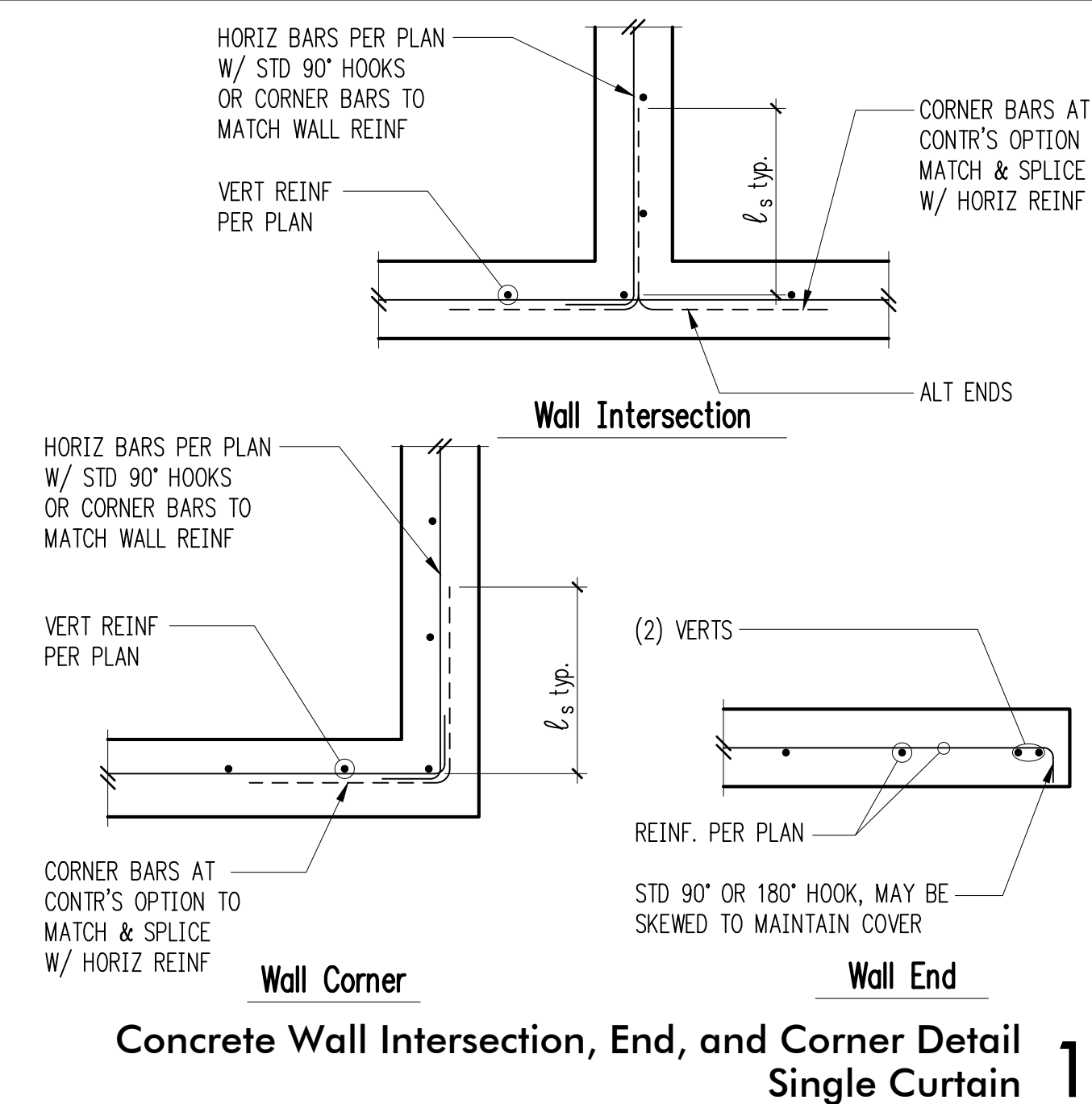
Bar Size	Length
#3	6"
#4	7"
#5	9"
#6	10"
#7	12"
#8	14"
#9	15"
#10	17"
#11	19"

1. SIDE COVER MUST BE EQUAL TO OR GREATER THAN 2 1/2"
 2. END COVER FOR 90° HOOKS MUST BE EQUAL TO OR GREATER THAN 2"

8

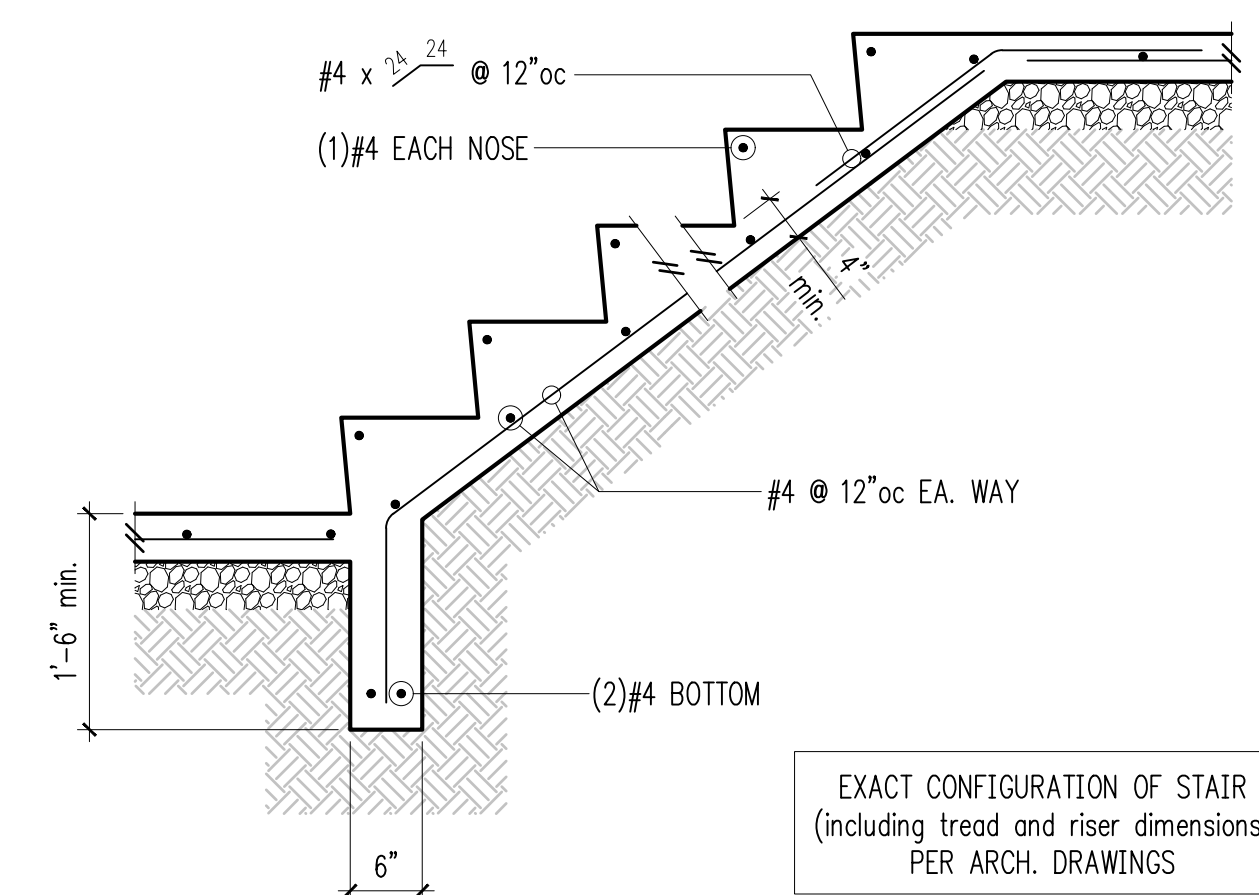


Concrete Wall Intersection, End, and Corner Detail Double Curtain 14



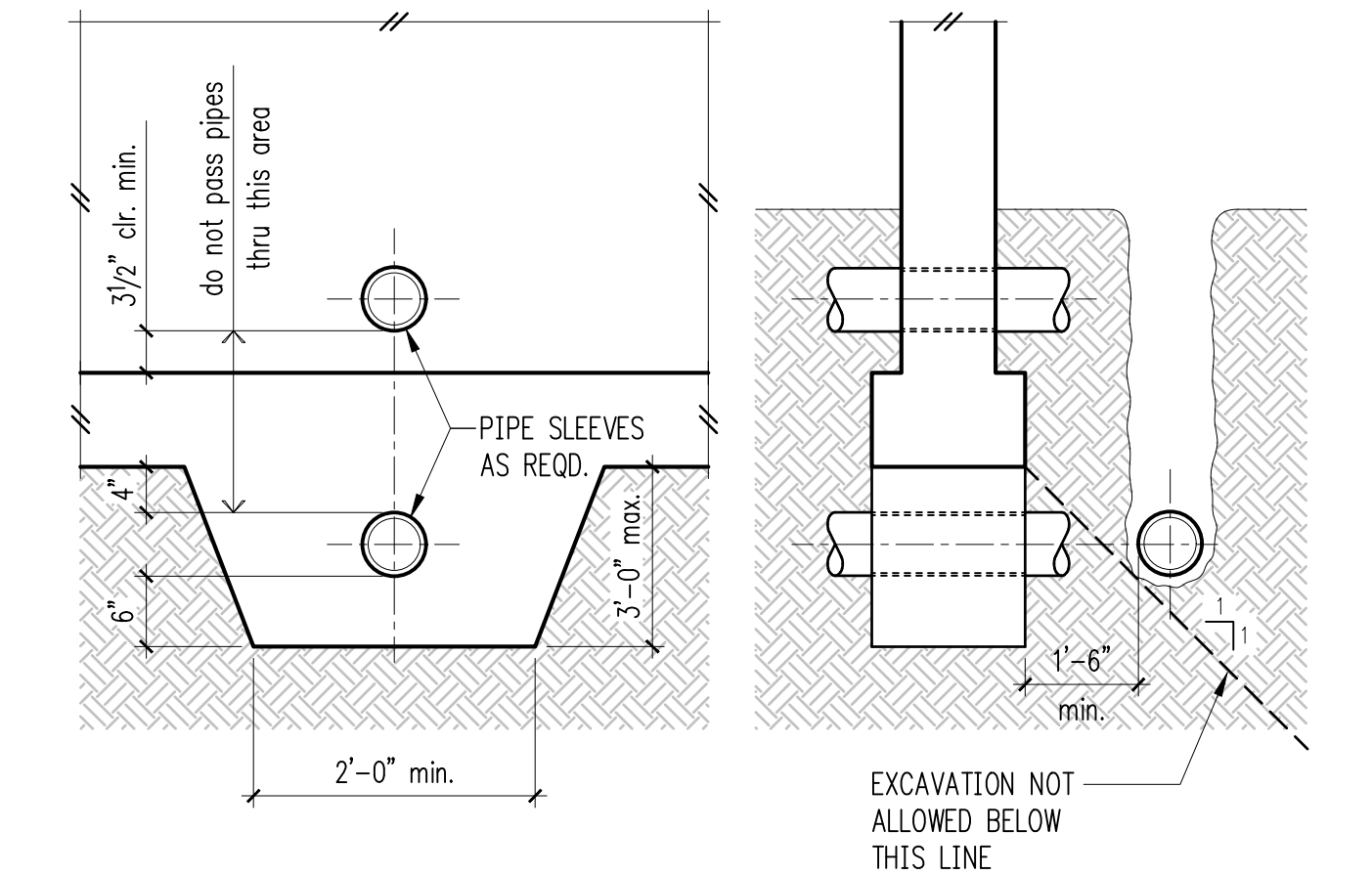
Concrete Wall Intersection, End, and Corner Detail Single Curtain 15

15



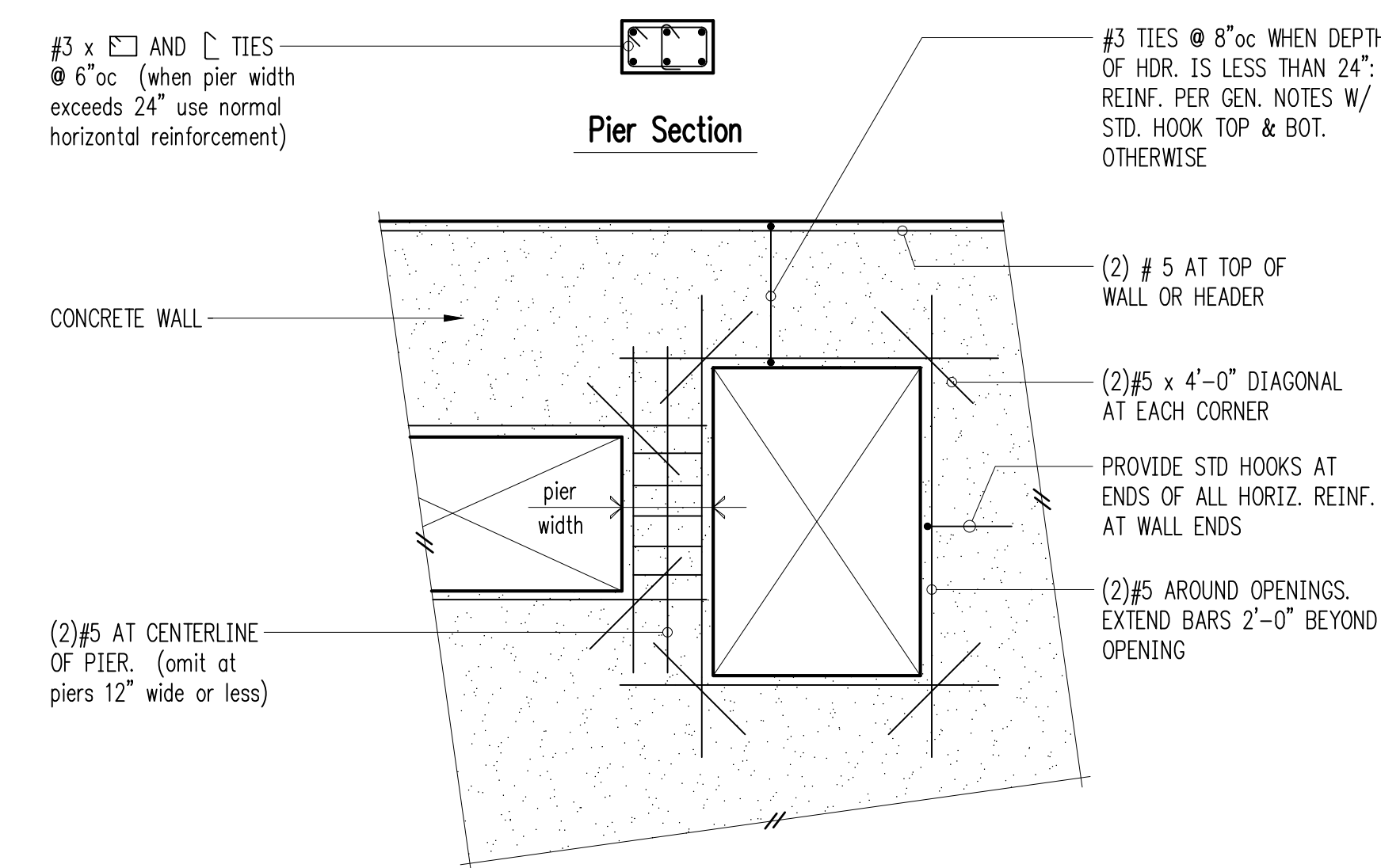
Typical Stair On Grade 16

16



Pipe and Trench Locations 17

17



Notes:

- REINFORCING SHOWN IS MINIMUM. SEE PLANS AND WALL ELEVATIONS FOR ANY ADDITIONAL REQUIRED REINFORCING.
- PROVIDE FOR ANY OPENING SIX SQUARE FEET OR LARGER UNLESS OTHERWISE NOTED ON PLANS, ELEVATIONS, OR DETAILS.
- FOR WALLS THICKER THAN 8" USE #6 BARS IN LIEU OF #5 BARS SHOWN.
- AT PIERS ≤ 12" WIDE, PROVIDE #3 TIES @ 3" oc AND EXTEND 1'-0" ABOVE AND BELOW LARGEST OPENING

18

Typical Opening Reinforcing at Concrete Walls 20

SSE STRUCTURAL ENGINEERING
 2124 Third Avenue - Suite 100 - Seattle, WA 98101
 P: 206-443-6242 E: sse@engineers.com
 934 Broadway - Tacoma, WA 98402
 P: 253-884-9470 E: sse@engineers.com
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MSSE PROFESSIONAL ENGINEERING

DESIGN: HAA, SRW
 DRAWN: NHD
 CHECKED: SRW
 APPROVED: BDM

REVISIONS:

NO.	DESCRIPTION

JURISDICTIONAL APPROVAL STAMP:

PROJECT TITLE:
8480 Residence
 8480 85th Ave SE
 Mercer Island, WA 98040

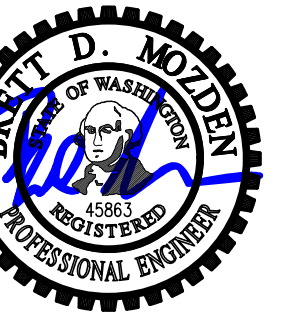
ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH: 206.239.0850
 brandtdesigninc.com

ISSUE:
PERMIT

SHEET TITLE:
Typical Concrete Details

SCALE: 3/4" = 1'-0" U.N.O.
 DATE: March 11, 2022
 PROJECT NO: 01519-2021-09
 SHEET NO:

S3.1



DESIGN: HAA, SRW
 DRAWN: NHD
 CHECKED: SRW
 APPROVED: BDM

REVISIONS:

JURISDICTIONAL APPROVAL STAMP:

PROJECT TITLE:
8480 Residence
 8480 85th Ave SE
 Mercer Island, WA 98040

ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH: 206.239.0850
 brandtdesigninc.com

ISSUE:
PERMIT

SHEET TITLE:
Foundation Details

SCALE: 3/4" = 1'-0" U.N.O.

DATE: March 11, 2022

PROJECT NO: 01519-2021-09

SHEET NO:

S3.2

1

2

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9

Deck or Canopy Post Footing 10

11

12

ALL FASTENERS INTO PRESSURE TREATED WOOD SHALL BE GALV. OR STAINLESS STEEL PER GENERAL NOTES

FOR CALLOUTS IN COMMON REFER 14/S3.2

13

14

FOR CALLOUTS IN COMMON REFER 20/S3.2

15

16

17

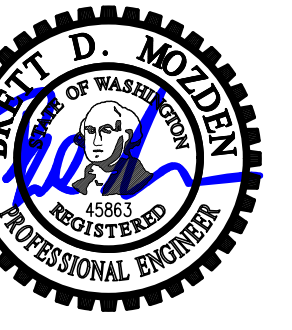
FOR CALLOUTS IN COMMON REFER 19/S3.2

18

19

ALL FASTENERS INTO PRESSURE TREATED WOOD SHALL BE GALV. OR STAINLESS STEEL PER GENERAL NOTES

Exterior Wall w/ Slab on Grade 20



DESIGN: HAA, SRW
 DRAWN: NHD
 CHECKED: SRW
 APPROVED: BDM

REVISIONS:

JURISDICTIONAL APPROVAL STAMP:

PROJECT TITLE:
8480 Residence
 8480 85th Ave SE
 Mercer Island, WA 98040

ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH: 206.239.0850
 brandtdesigninc.com

ISSUE:
PERMIT

SHEET TITLE:
Typical Wood Framing Details

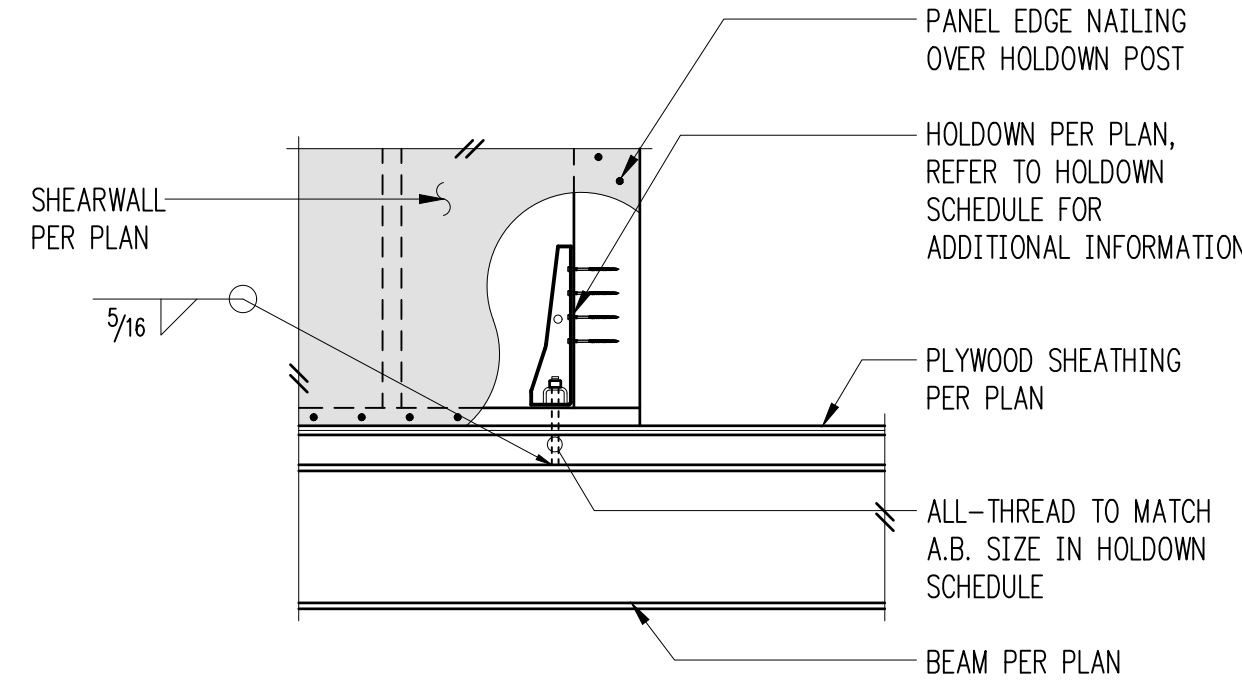
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 DATE: March 11, 2022
 PROJECT NO: 01519-2021-09
 SHEET NO:

S4.1

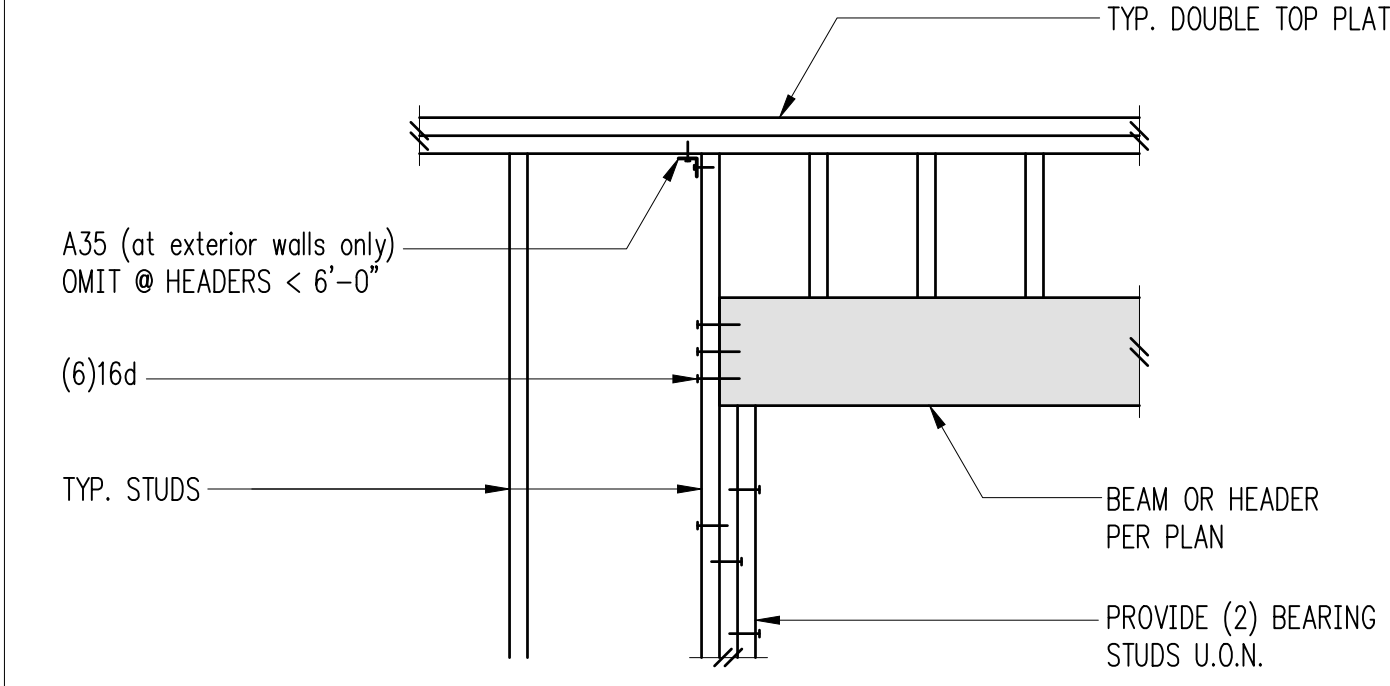
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2

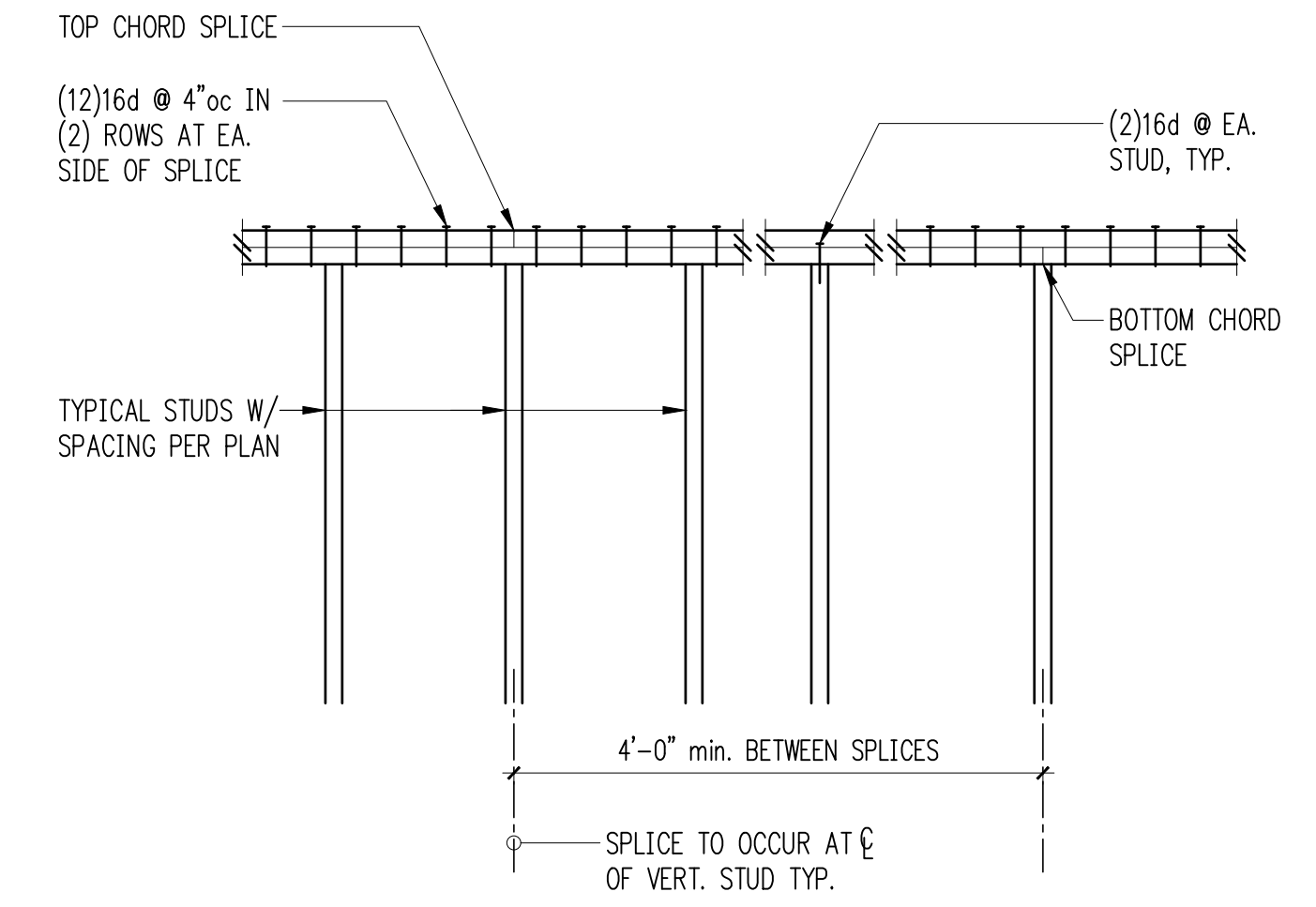
Holddown at WF Beam - HDU 3



Typical Header Support w/2 Bearing Studs 4

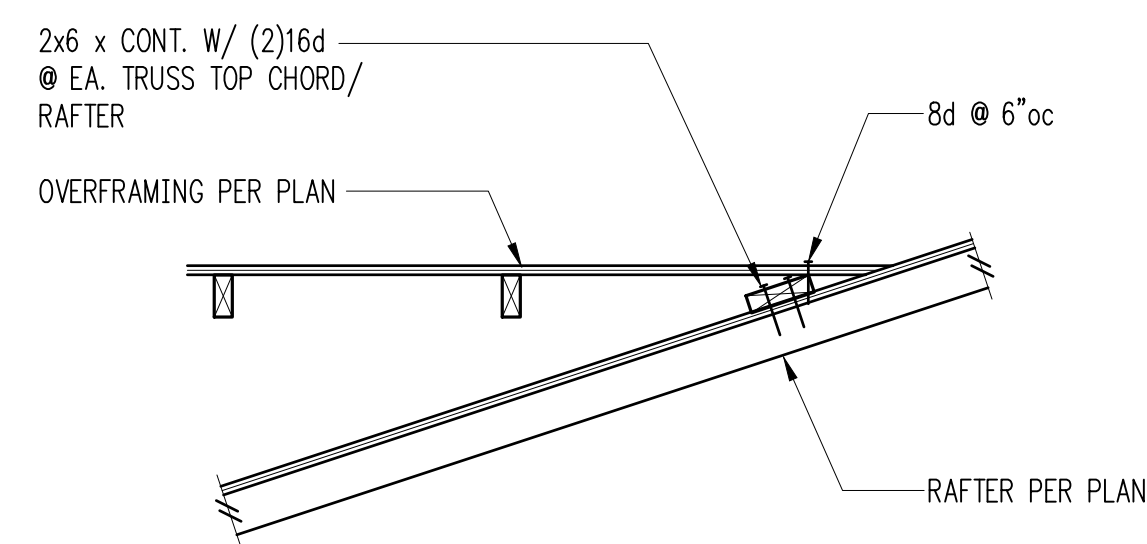


Typical Top Plate Splice 5

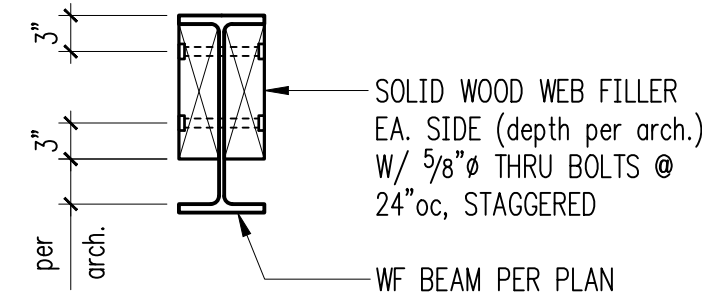


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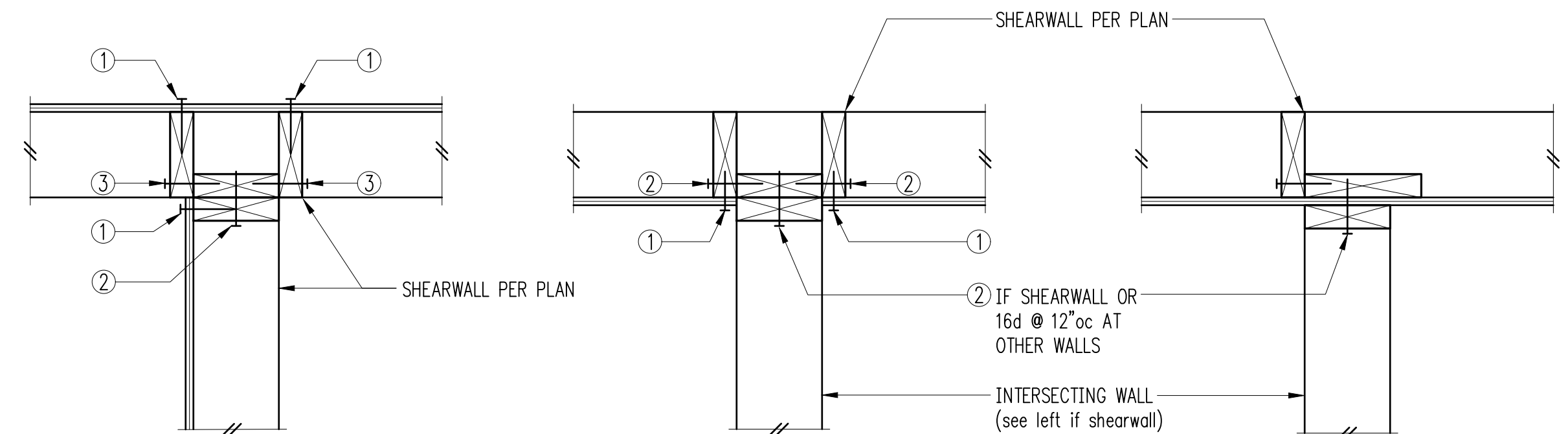
Overframing Connection 7



Typical Wood Filler at WF Beam 8



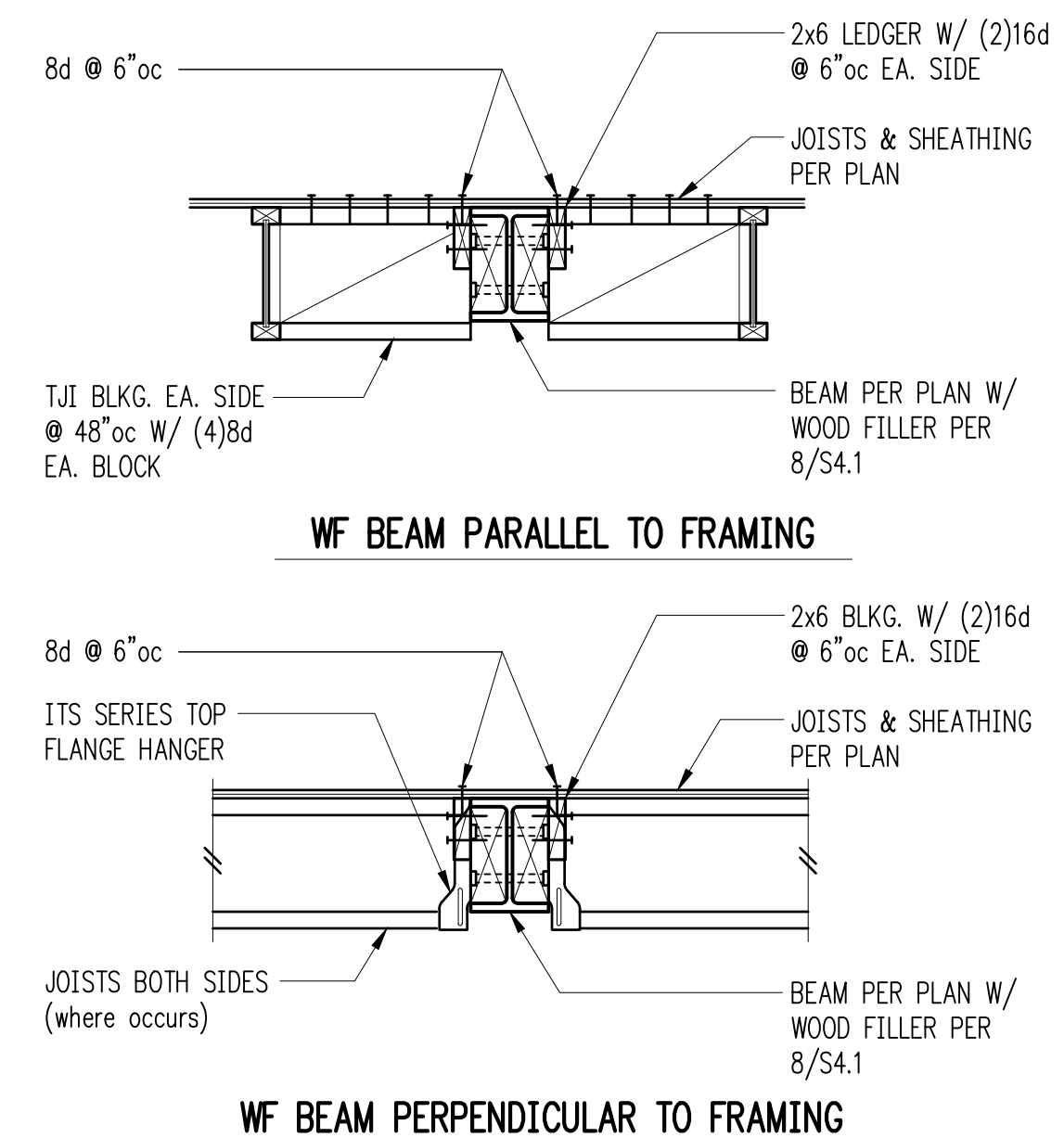
Typical Shearwall Intersections 10



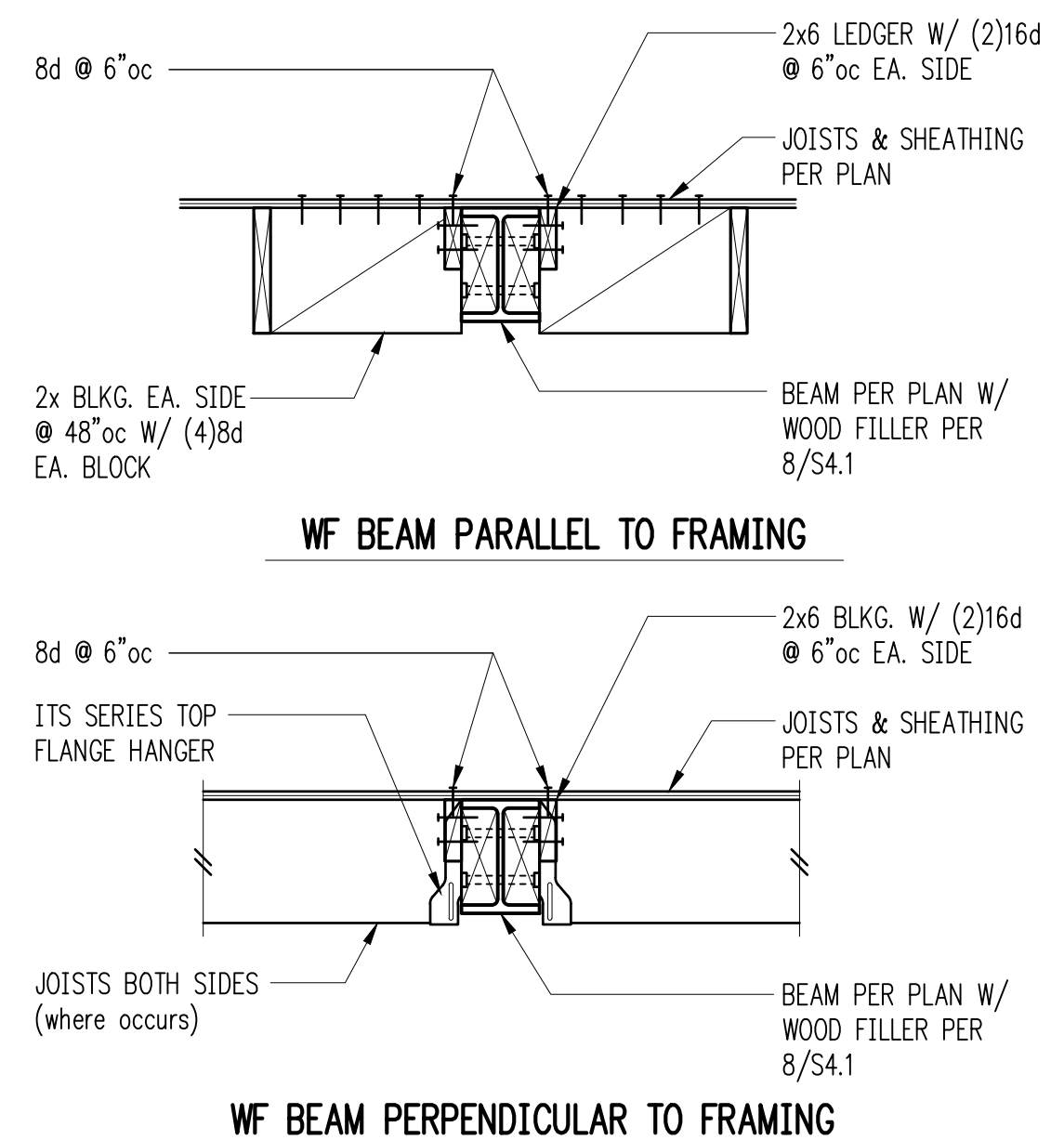
- 1 PLYWOOD PANEL EDGE NAILING PER SHEARWALL SCHEDULE
- 2 BASE PLATE NAILING PER SHEARWALL SCHEDULE
- 3 16d @ 8" oc

11

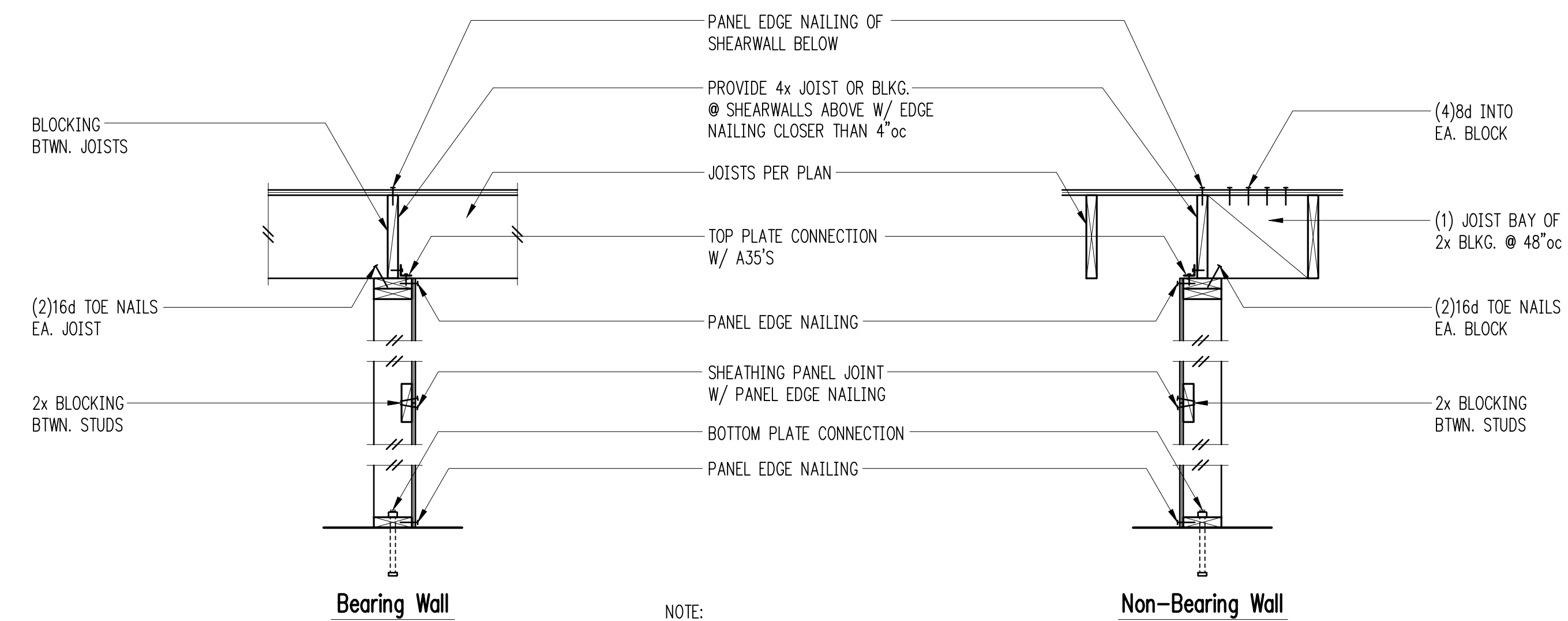
Flush Steel WF Beam - No Nailer 12



Flush Steel WF Beam - No Nailer 13



Bearing Wall

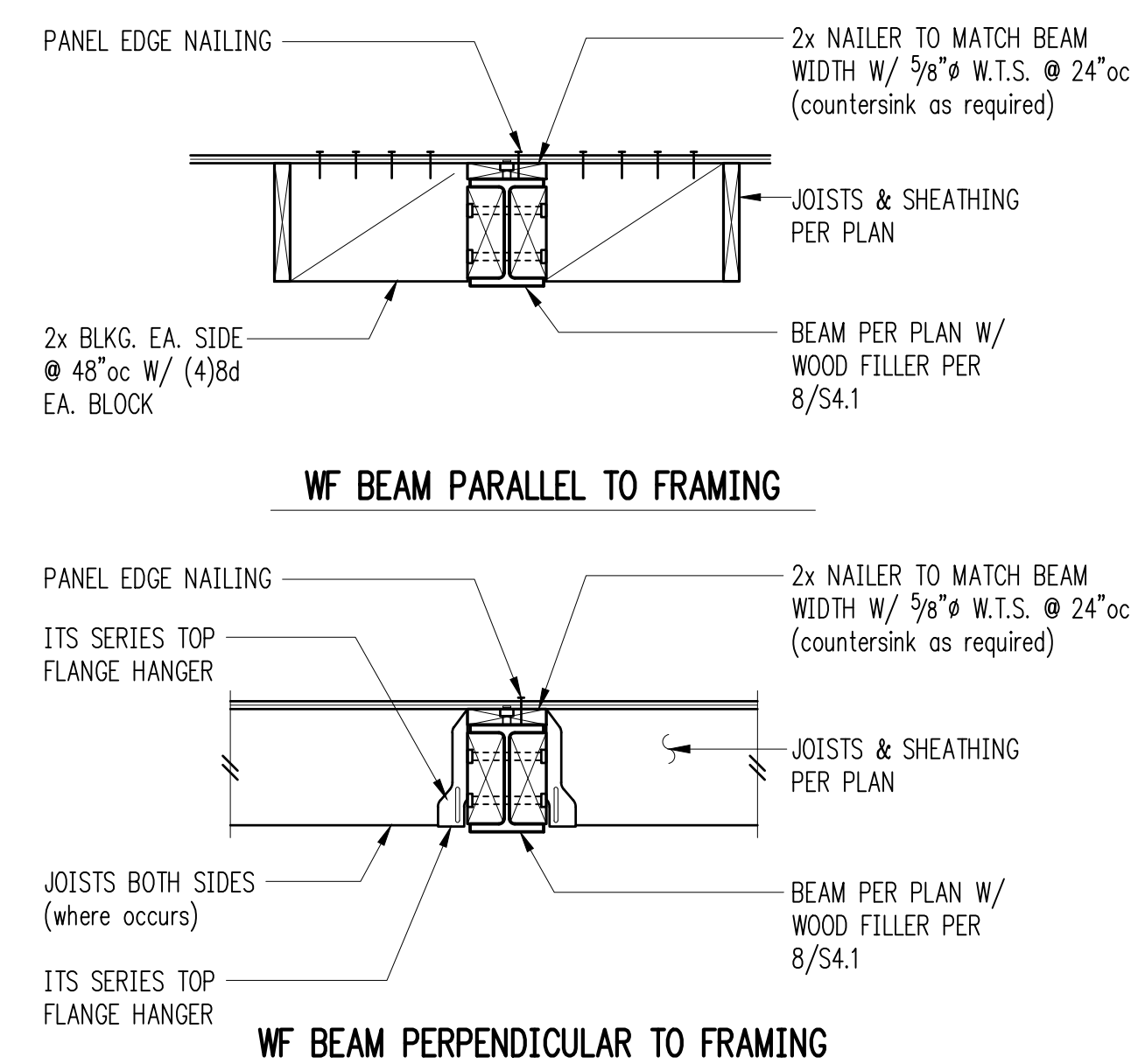
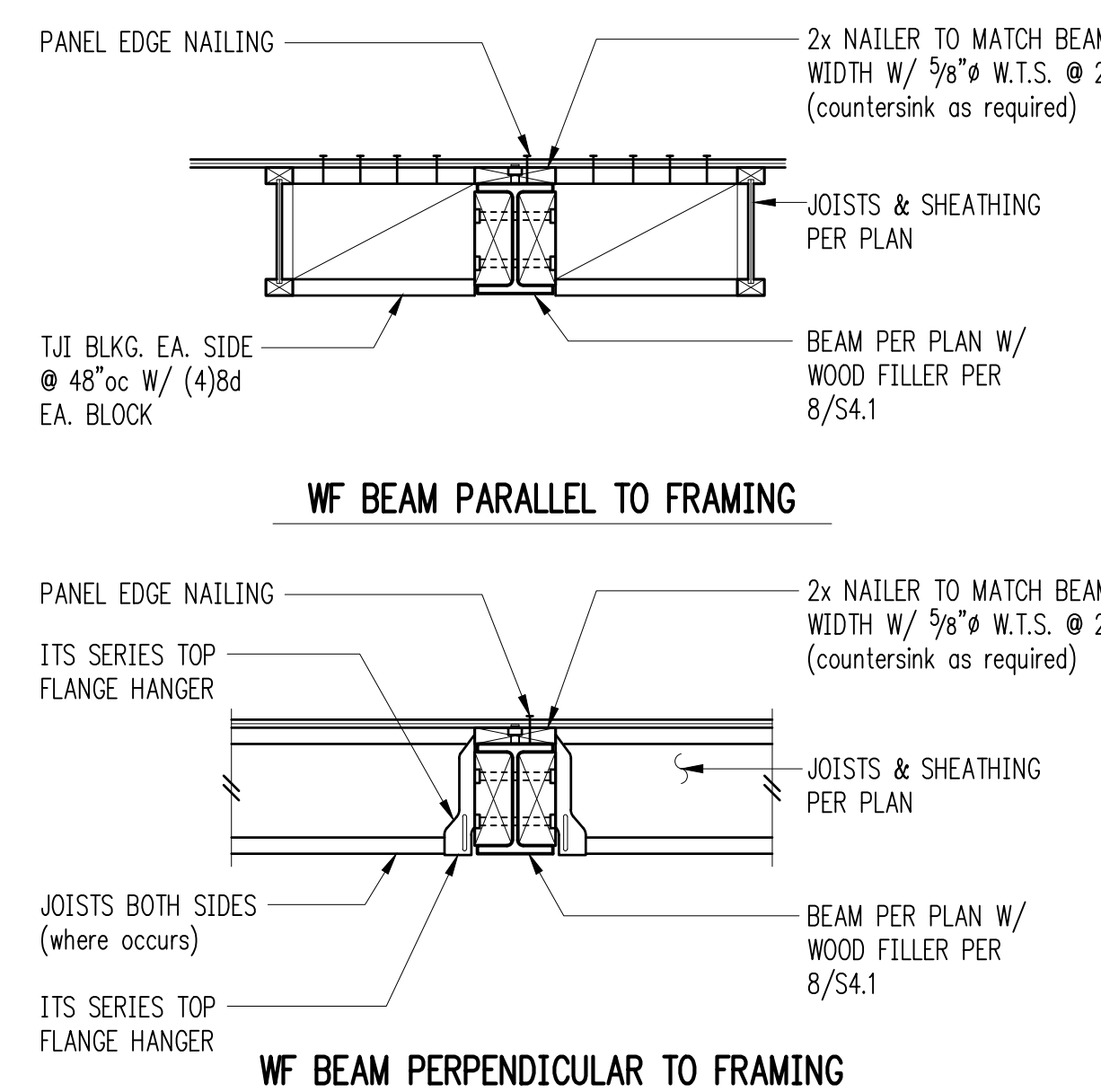


NOTE:
 SEE SHEARWALL SCHEDULE FOR ALL NAILING AND CONNECTIONS, NOT OTHERWISE NOTED

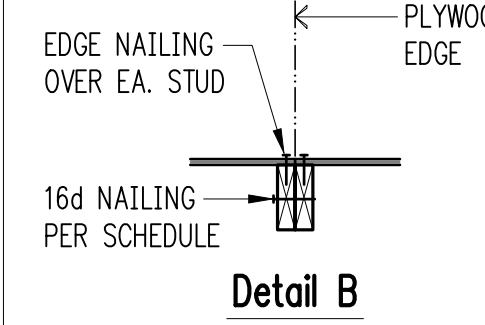
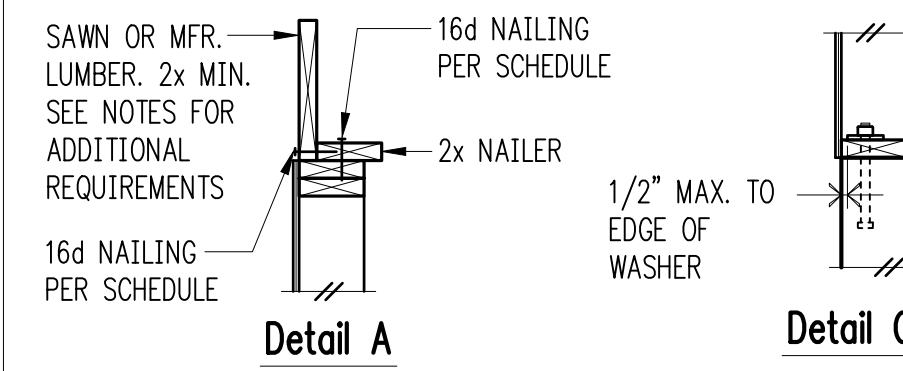
Typical Shearwall Construction 15

16

Flush Steel WF Beam with Nailer 17



Flush Steel WF Beam with Nailer 18

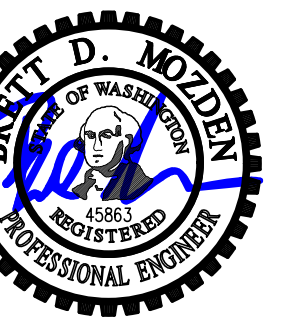


Shearwall Schedule

Mark	Sheathing	Panel Edge Nailing	Top Plate Connection		Base Plate Connection	
			if TJI	if Wood	at Wood	at Concrete
W6	15/32" CDX PLYWOOD	8d @ 6" oc	16d @ 6" oc	A35 @ 24" oc	16d @ 6" oc	5/8" A.B. @ 48" oc
W4	15/32" CDX PLYWOOD	8d @ 4" oc	16d @ 4" oc	A35 @ 16" oc	(2)rows 16d @ 6" oc	5/8" A.B. @ 32" oc
W3	15/32" CDX PLYWOOD	8d @ 3" oc	(2)rows 16d @ 4" oc	A35 @ 12" oc	(2)rows 16d @ 6" oc	5/8" A.B. @ 24" oc
W2	15/32" CDX PLYWOOD	8d @ 2" oc	(2)rows 16d @ 4" oc	A35 @ 9" oc	(2)rows 16d @ 4" oc	5/8" A.B. @ 16" oc
2W3	15/32" CDX PLYWOOD. EA. SIDE	8d @ 3" oc EA. SIDE	n/a	A35 @ 6" oc	(3)rows 16d @ 4" oc	5/8" A.B. @ 16" oc
2W2	15/32" CDX PLYWOOD. EA. SIDE	8d @ 2" oc EA. SIDE	n/a	HG10KT @ 8" oc	(3)rows 16d @ 4" oc	5/8" A.B. @ 12" oc
2W2-10	15/32" CDX PLYWOOD. EA. SIDE	10d @ 2" oc EA. SIDE	(2)rows 16d @ 4" oc	A35 @ 9" oc	(4)rows 16d @ 4" oc	5/8" A.B. @ 16" oc

- 1 BLOCK PANEL EDGES WITH 2x MIN. LAID FLAT AND NAIL PANELS TO INTERMEDIATE SUPPORTS WITH 8d @ 12" oc.
- 2 8d NAILS SHALL BE 0.131" x 2 1/2" (common) - 16d NAILS SHALL BE 0.135" x 3 1/2" (box) - 10d NAILS SHALL BE 0.148" x 3" (common).
- 3 EMBED ANCHOR BOLTS AT LEAST 7". DRILLED AND EPOXYED THREADED ROD MAY BE SUBSTITUTED FOR ANCHOR BOLTS WITH 6" EMBEDMENT. TITEN HD SCREW ANCHORS MAY BE SUBSTITUTED FOR ANCHOR BOLTS W/ 4" EMBEDMENT. ALL BOLTS SHALL HAVE 3" x 3" x 1/4" MIN. PLATE WASHERS. PLATE WASHERS SHALL EXTEND TO WITHIN 1/2" OF THE EDGE OF THE BOTTOM PLATE ON THE SIDE WITH SHEATHING. SEE DETAIL C.
- 4 3x STUDS OR DOUBLE STUDS NAILED TOGETHER W/ BASE PLATE NAILING ARE REQUIRED AT ABUTTING PANEL EDGES OF W3 AND W2. SEE DETAIL B. WHERE 3x STUDS ARE USED FOR W2, STAGGER PANEL NAILS AT ADJOINING PANEL EDGES.
- 5 3x FOUNDATION SILL PLATES ARE REQUIRED FOR 2W3 AND 2W2. 3x STUDS ARE REQUIRED AT ABUTTING PANEL EDGES AND PANEL JOINTS SHALL BE OFFSET EACH SIDE OF WALL. STAGGER NAILS AT ADJOINING PANEL EDGES. 3x STUD, MIN., REQUIRED AT END OF SHEARWALL.
- 6 TWO STUDS MINIMUM ARE REQUIRED AT EACH END OF ALL SINGLE-SIDED SHEARWALLS. ALL END STUDS SHALL RECEIVE PANEL EDGE NAILING. SEE PLANS AND HOLDOWN SCHEDULE FOR ALTERNATE REQUIREMENTS.
- 7 ALL EXTERIOR WALLS SHALL BE W6, UNLESS NOTED OTHERWISE.
- 8 7/16" O.S.B. MAY BE SUBSTITUTED FOR 15/32" CDX, EXCEPT AT 10d PANEL EDGE NAILING.
- 9 LTP4's (HORIZONTAL ORIENTATION) W/ 8d COMMON MAY BE SUBSTITUTED FOR A35's AT CONTRACTORS OPTION.
- 10 A 2x NAILER ATTACHED W/ BASE PLATE NAILING PER DETAIL A MAY BE SUBSTITUTED FOR A35's AT CONTRACTORS OPTION.
- 11 AT MULTI-ROW NAILING, MINIMUM OFFSET BETWEEN ROWS AND ROW SPACING 1/2", SEE DETAIL D.
- 12 LVL RIMS PERMITTED AT SINGLE SIDED SHEAR WALLS ONLY.
- 13 PROVIDE (3) ROWS 16d @ 6" oc AT LVL RIMS.
- 14 MINIMUM RIM OR JOIST 3/2" WIDE BELOW SHEARWALL.

Shearwall Schedule 20



DESIGN: HAA, SRW
 DRAWN: NHD
 CHECKED: SRW
 APPROVED: BDM

REVISIONS:

JURISDICTIONAL APPROVAL STAMP:

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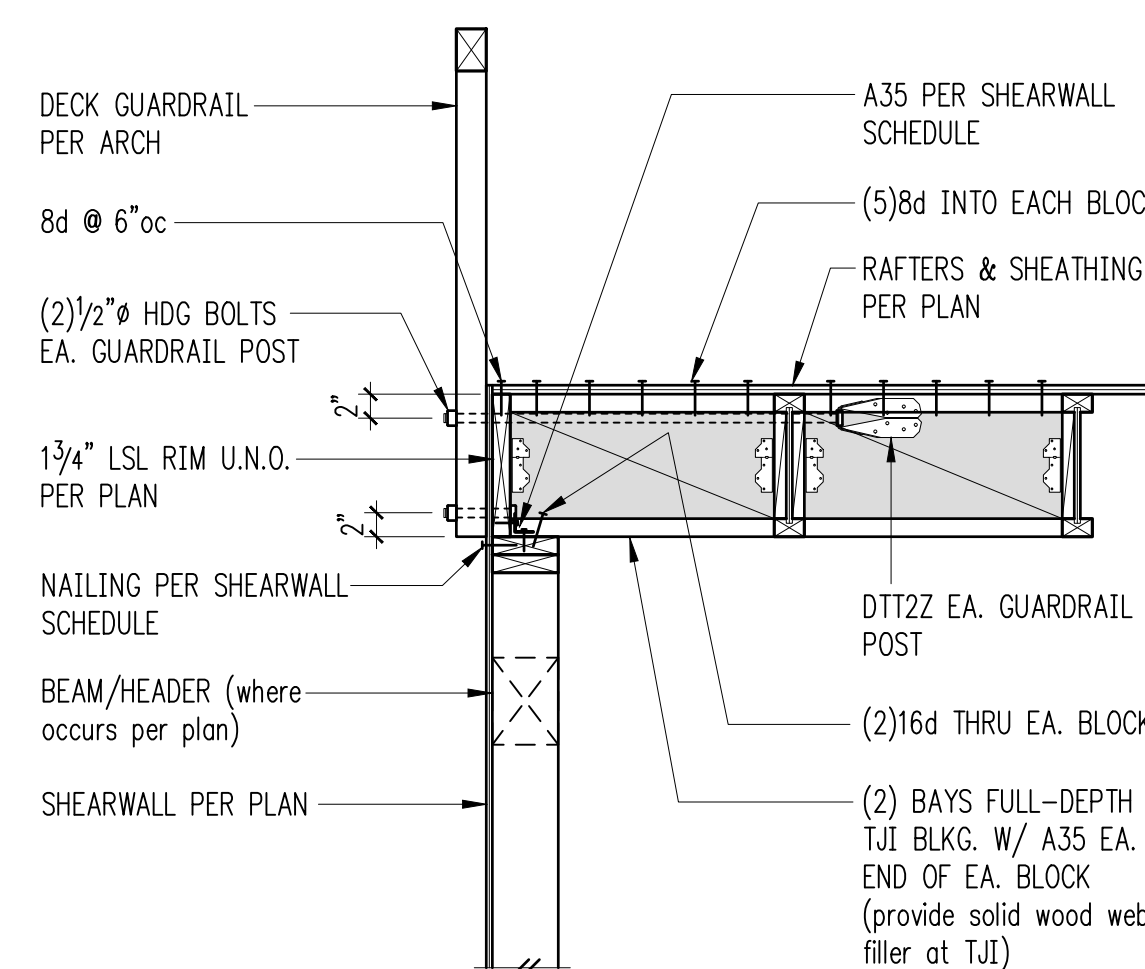
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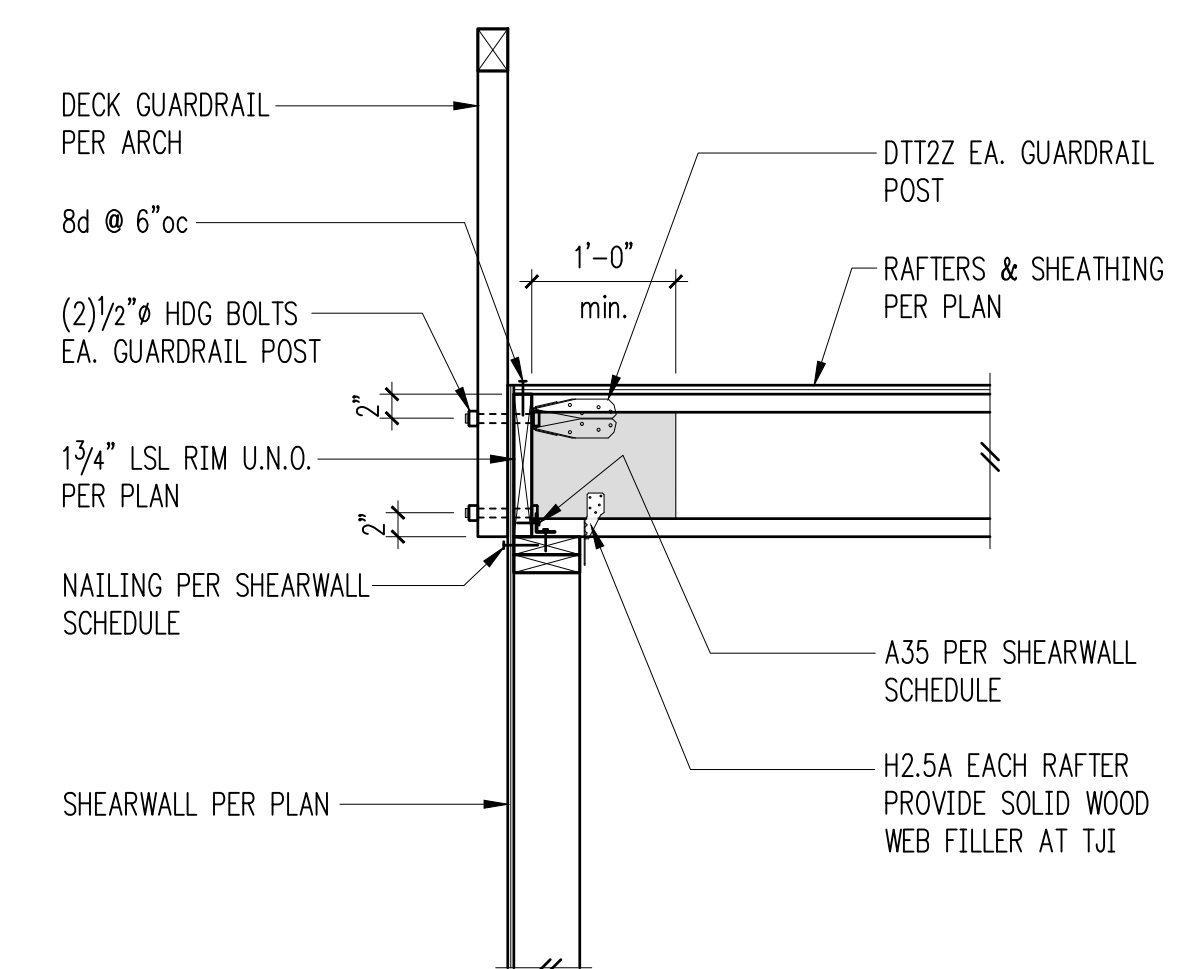
16

17

18



Typical Exterior Wall with
Guardrail Post (joists parallel) 19



Typical Exterior Wall with
Guardrail Post (joists perpendicular) 20

PROJECT TITLE:
8480 Residence
 8480 85th Ave SE
 Mercer Island, WA 98040

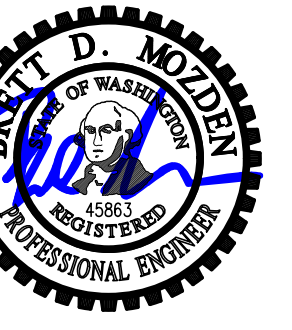
ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH: 206.239.0850
 brandtdesigninc.com

ISSUE:
PERMIT

SHEET TITLE:
**Wood Framing
 Details**

SCALE: 3/4" = 1'-0" U.N.O.
 DATE: March 11, 2022
 PROJECT NO: 01519-2021-09
 SHEET NO:

S4.2



DESIGN: HAA, SRW
 DRAWN: NHD
 CHECKED: SRW
 APPROVED: BDM

REVISIONS:

JURISDICTIONAL APPROVAL STAMP:

PROJECT TITLE:

8480 Residence
 8480 85th Ave SE
 Mercer Island, WA 98040

ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH: 206.239.0850
 brandtdesigninc.com

ISSUE:

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SHEET TITLE:

Typical Steel Details

SCALE:

3/4" = 1'-0" U.N.O.

DATE:

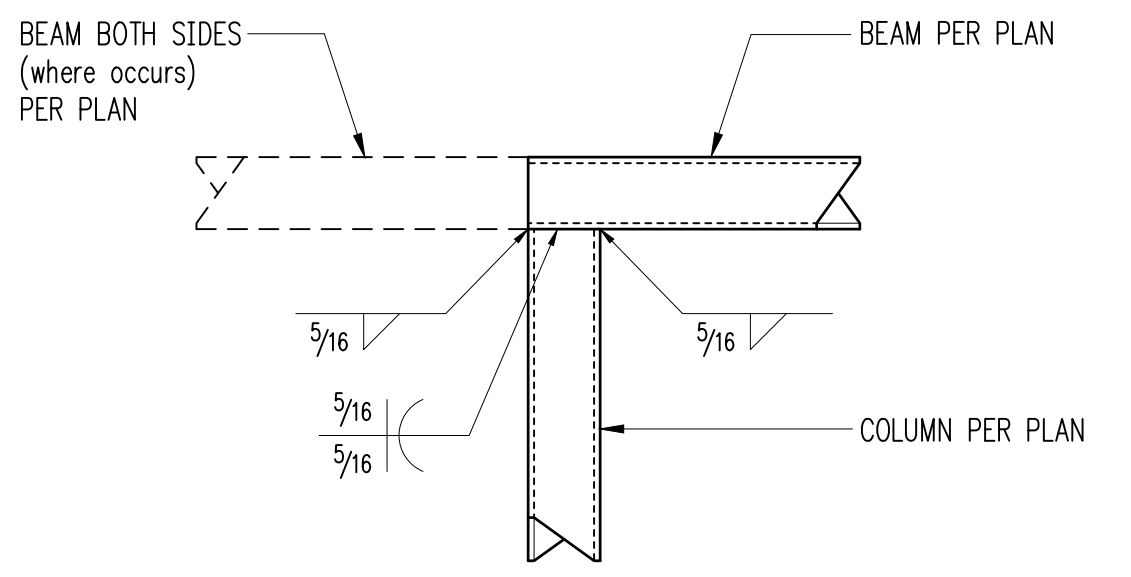
March 11, 2022

PROJECT NO:

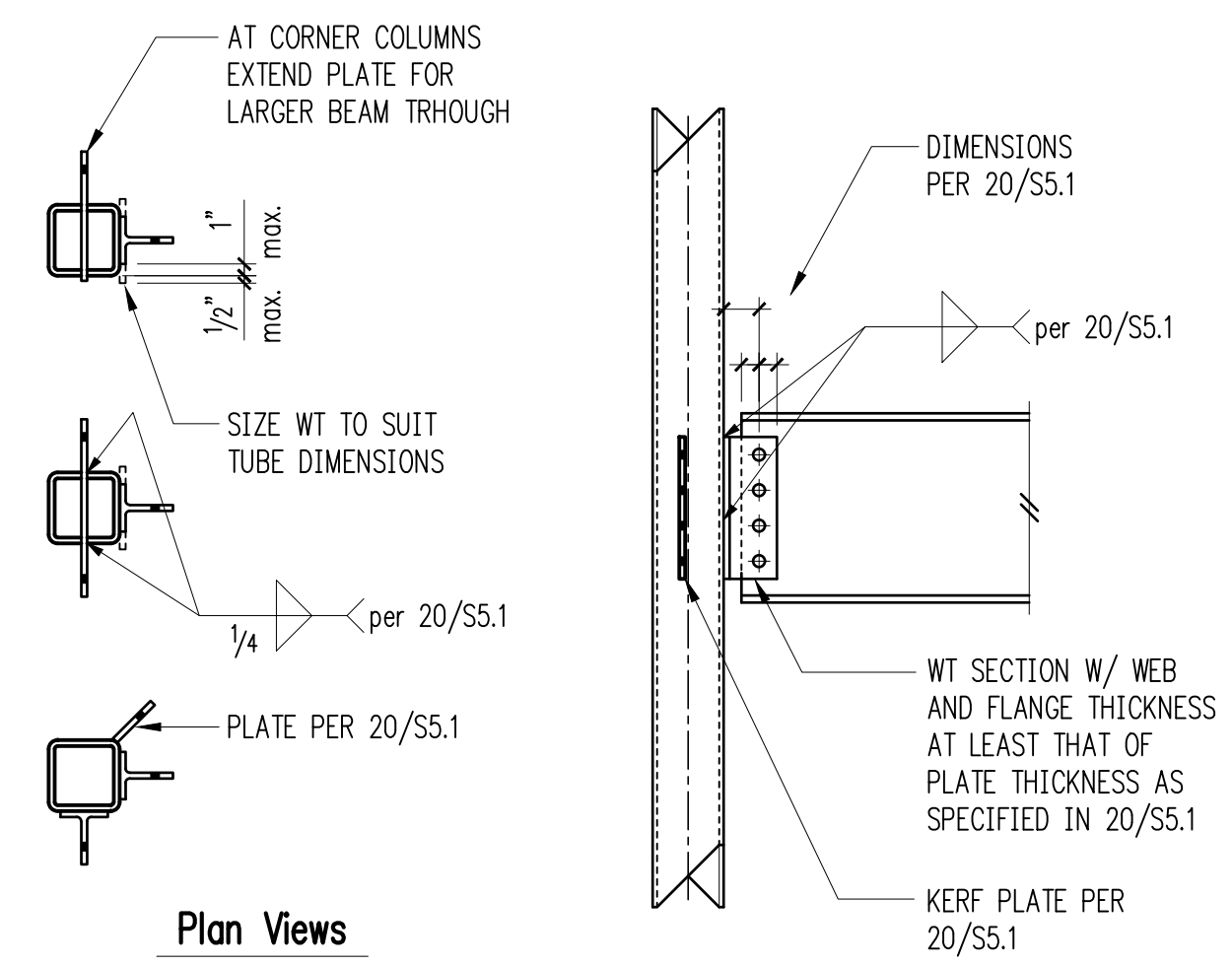
01519-2021-09

SHEET NO:

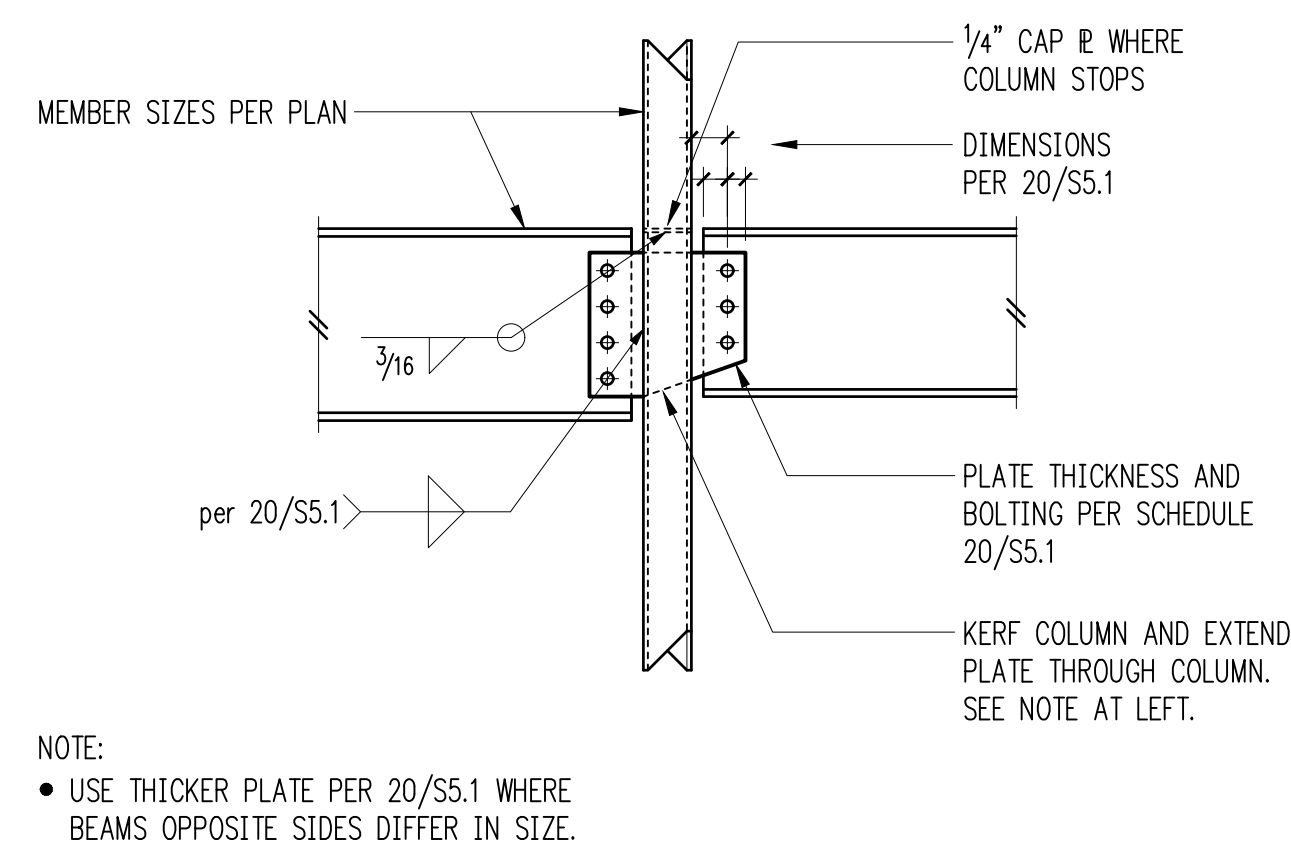
S5.1



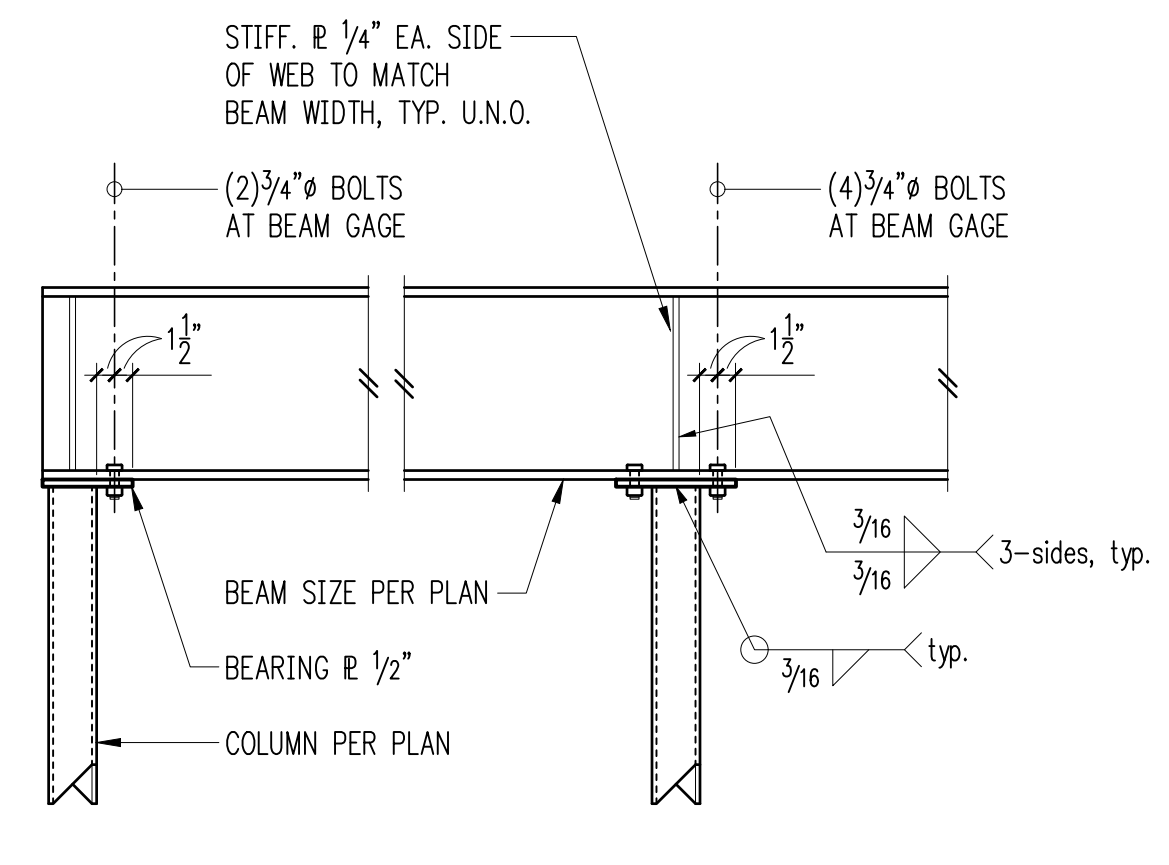
Typical HSS Beam to HSS Column



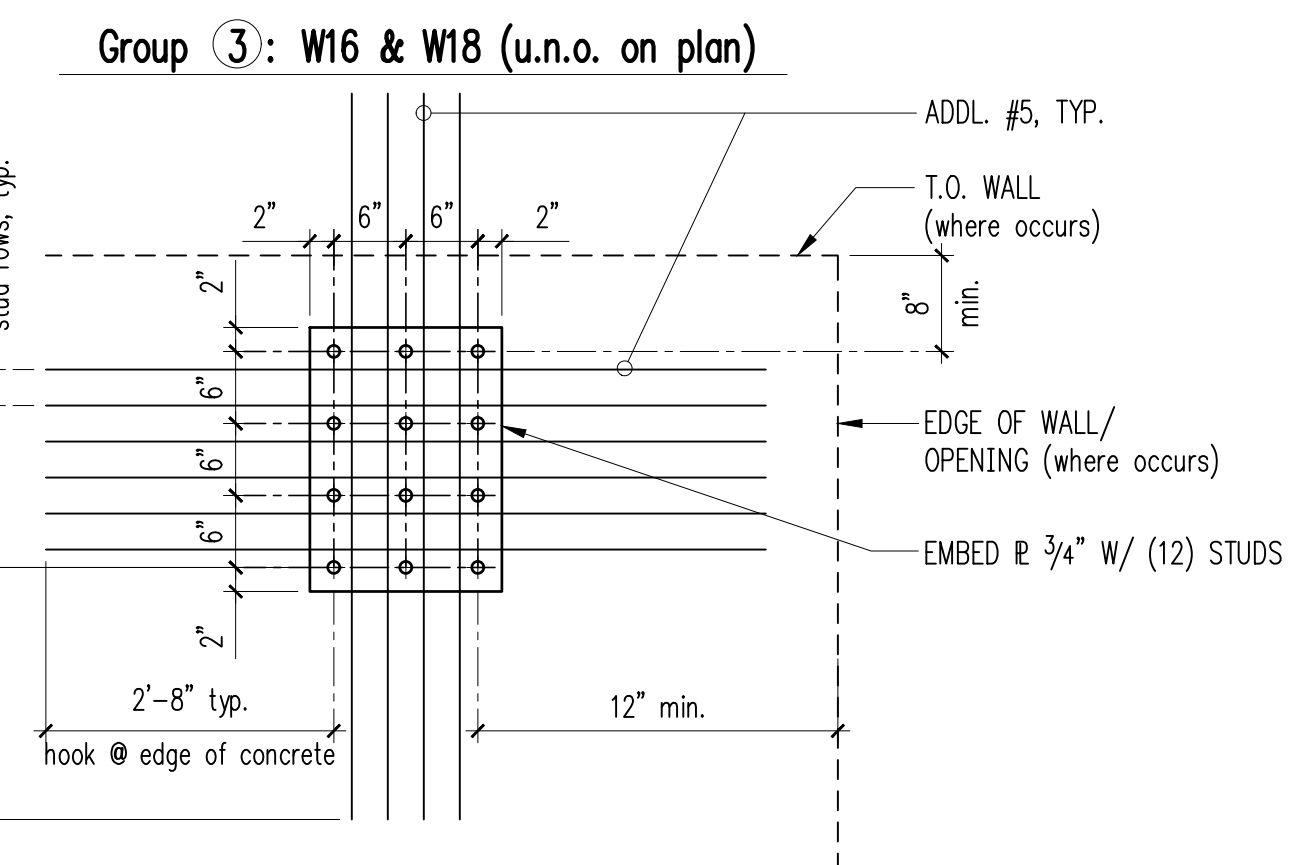
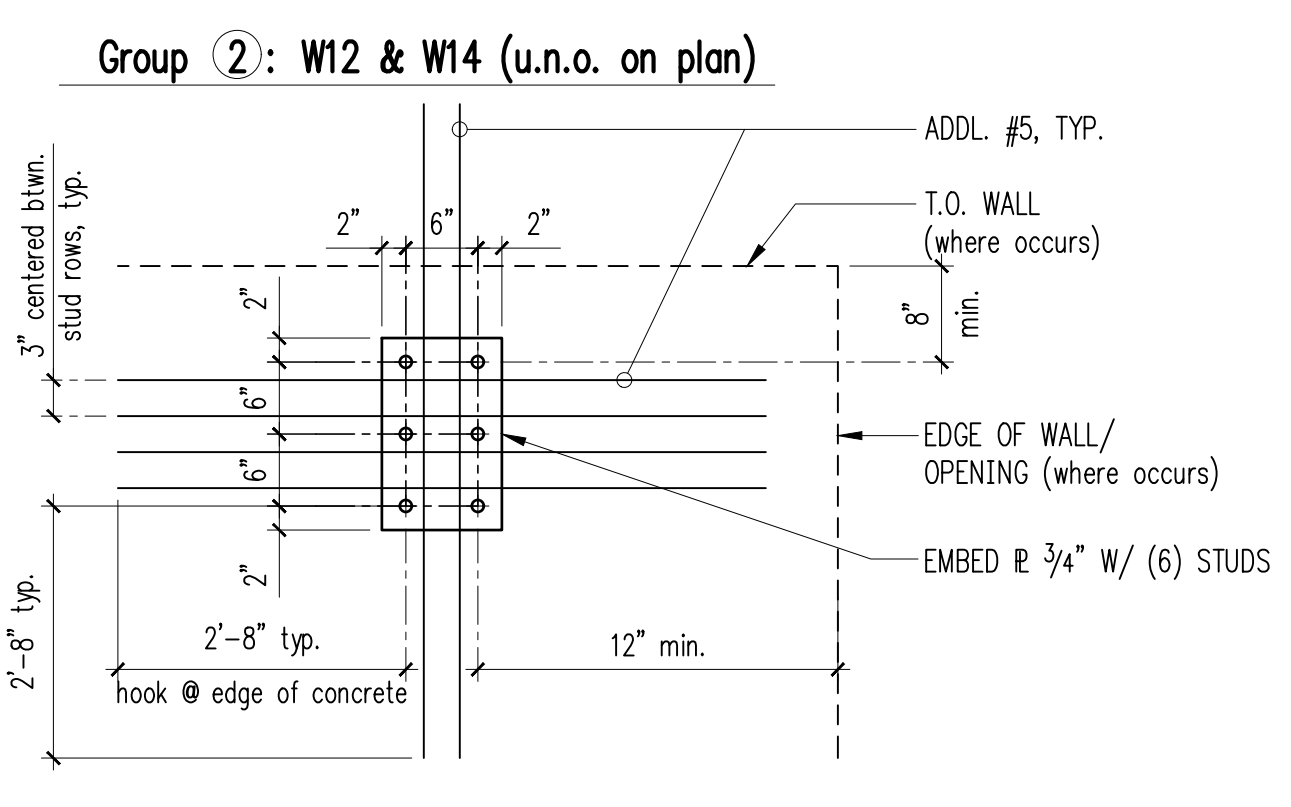
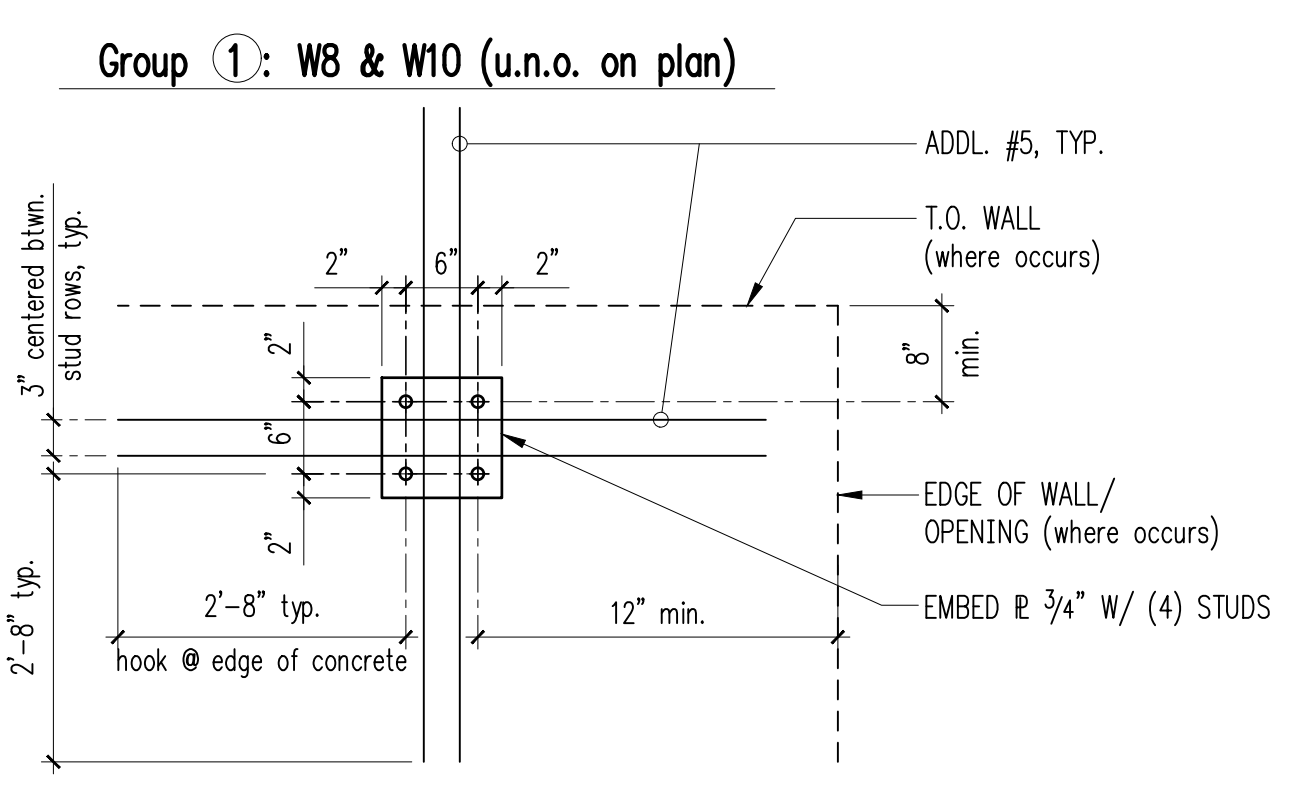
HSS Column Connection



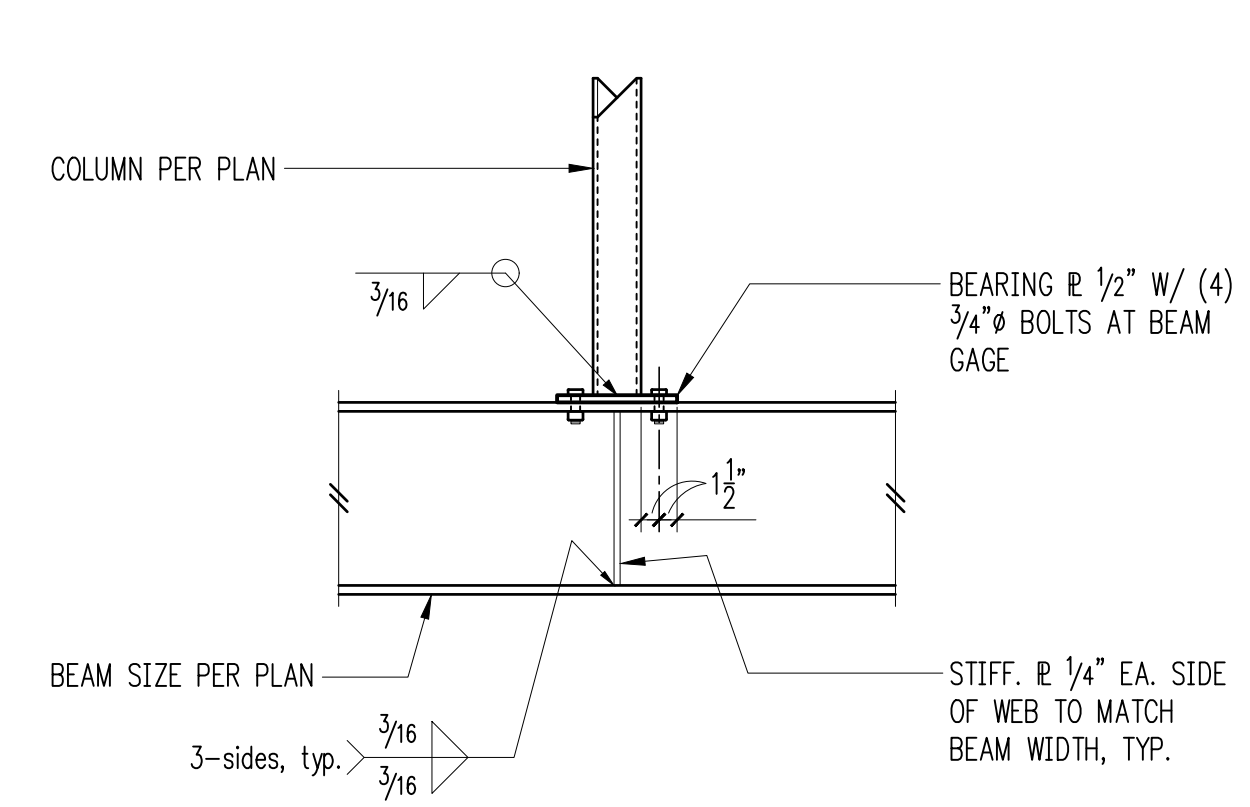
Beam to Continuous HSS Column - Interior



Typical Beam Bearing on HSS or Pipe Column



Typical Embed Plate Connection at Concrete Wall

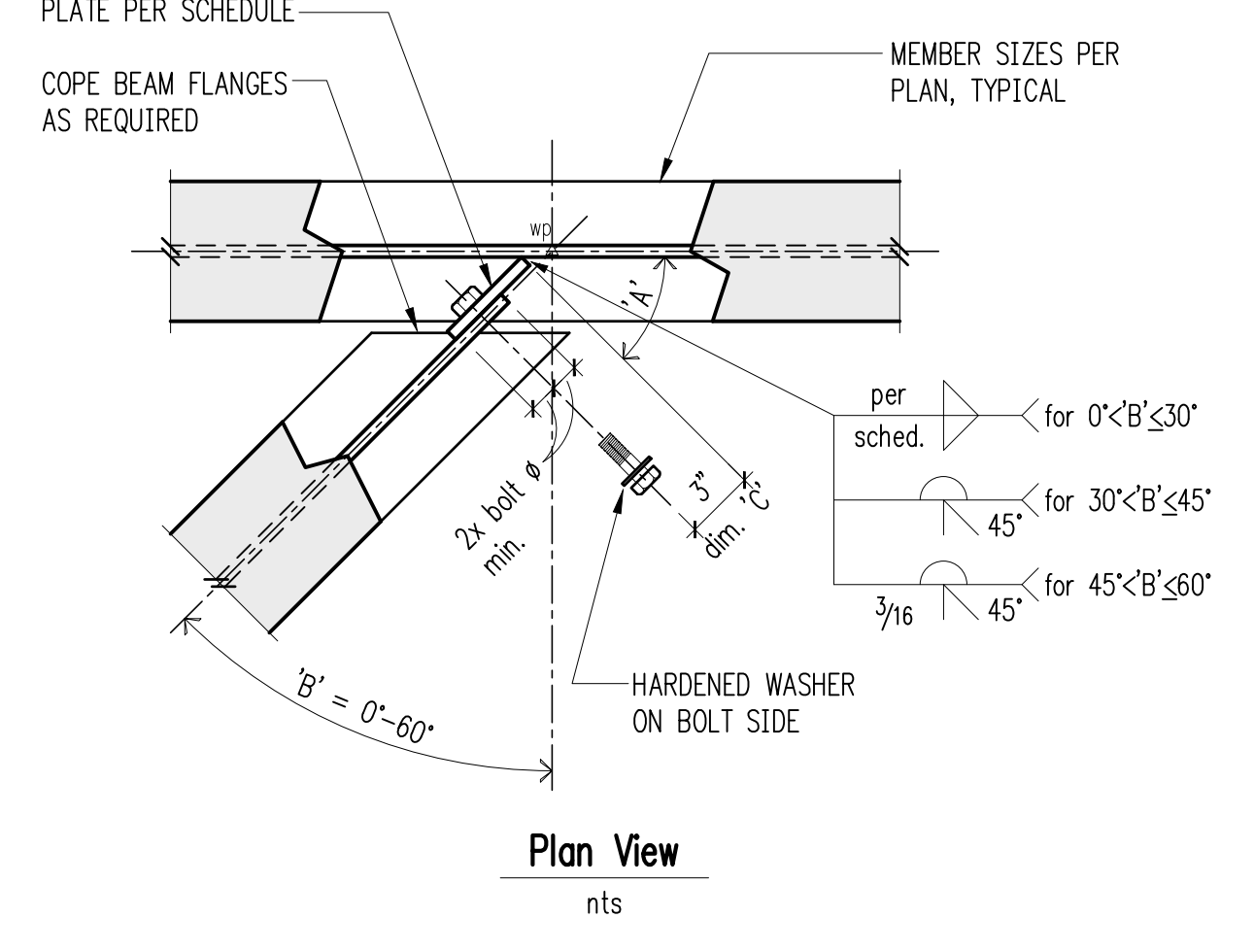


Beam Supporting HSS or Pipe Column

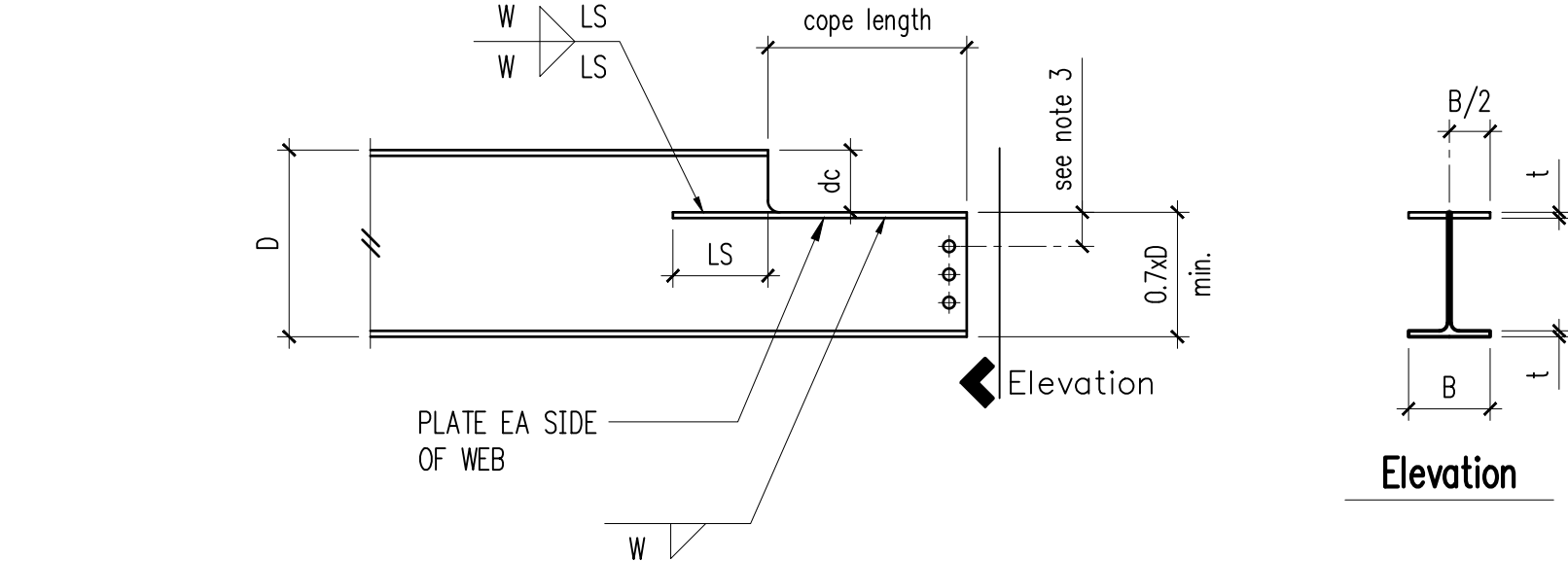
Skewed Beam Connection Schedule

BEAM SIZE	NO. & SIZE OF BOLTS REQUIRED	PLATE THICKNESS	WELD FOR 0° < B' < 10°	WELD FOR 10° < B' < 30°
W8	(2) 3/8"Ø	1/4"	S	S + 1/8"
W10	(2) 3/4"Ø @ 4" ga.	1/4"	S	S + 1/8"
W12	(3) 3/4"Ø	1/4"	S	S + 1/8"
W14	(3) 3/4"Ø	1/4"	S	S + 1/8"
W16	(4) 3/4"Ø	1/4"	S	S + 1/8"
W18	(4) 3/4"Ø	5/16"	S	S + 1/8"
W21	(4) 7/8"Ø	3/8"	S	S + 1/8"
W24	(5) 7/8"Ø	3/8"	S	S + 1/8"

- USE HORIZONTAL SHORT SLOTTED HOLES IN THE PLATE AT COLUMN CONNECTIONS ONLY
- FILLET WELD SIZE S = PLATE THICKNESS
- FOR BEVEL WELDS, BEVEL END OF CONNECTION PLATE TO MAINTAIN 'A' AT 45°
- DO NOT INCREASE DIMENSION 'C' WITHOUT ENGINEERS APPROVAL



Typical Skewed Beam Shear Connection

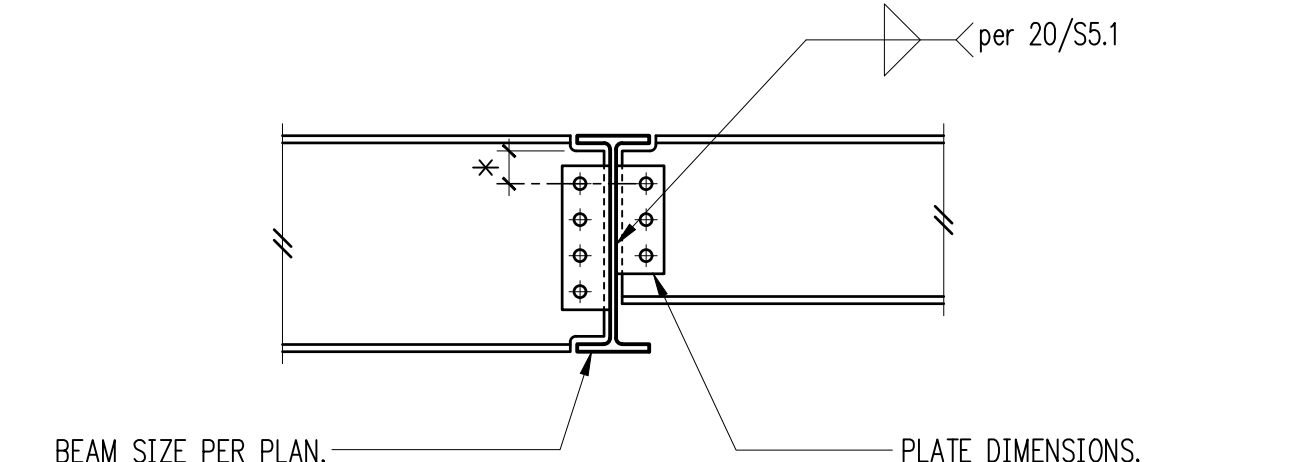


Typical Coped Web Stiffener

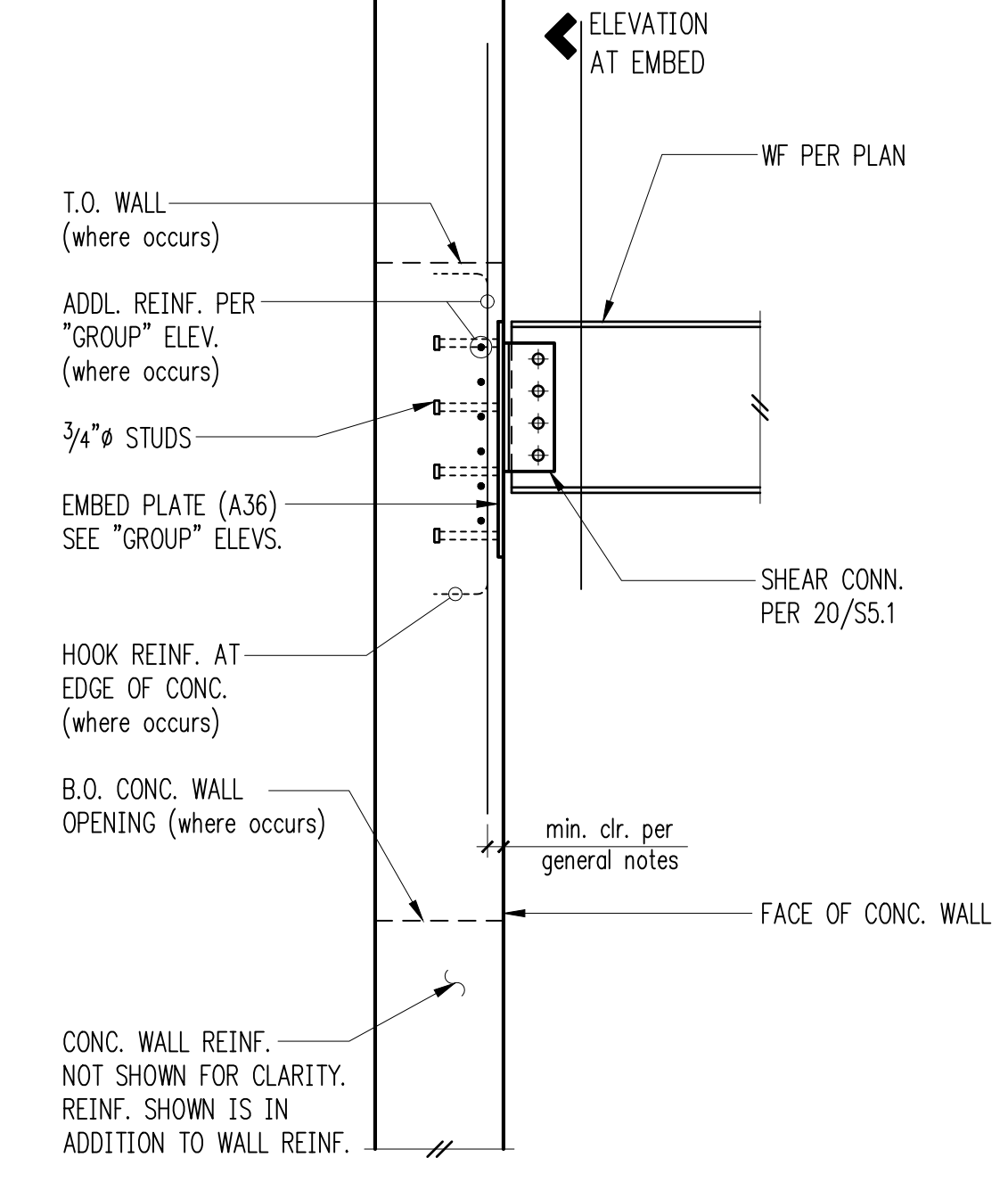
- NOTES:
- W SHALL BE 0.35t OR AISC MINIMUM.
 - LS SHALL BE THE GREATER OF 3x THE PLATE WIDTH OR 2x THE COPE DEPTH (DC).
 - ADJUST BOLT LOCATION AS REQUIRED.

Beam Size	Top Cope Only Fy (Beam) = 50ksi Max Cope Length	Top & Bot. Cope Fy (Beam) = 50ksi Max Cope Length
W8, W10	6"	2-1/2"
W12, W14	4-1/2"	2-1/2"
W16, W18, W21	7"	4"
W24	9"	5"
W27	11"	7"
W30	14"	10"

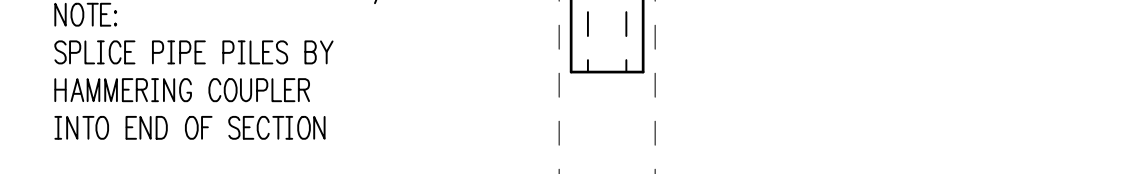
Typical Coped Beams



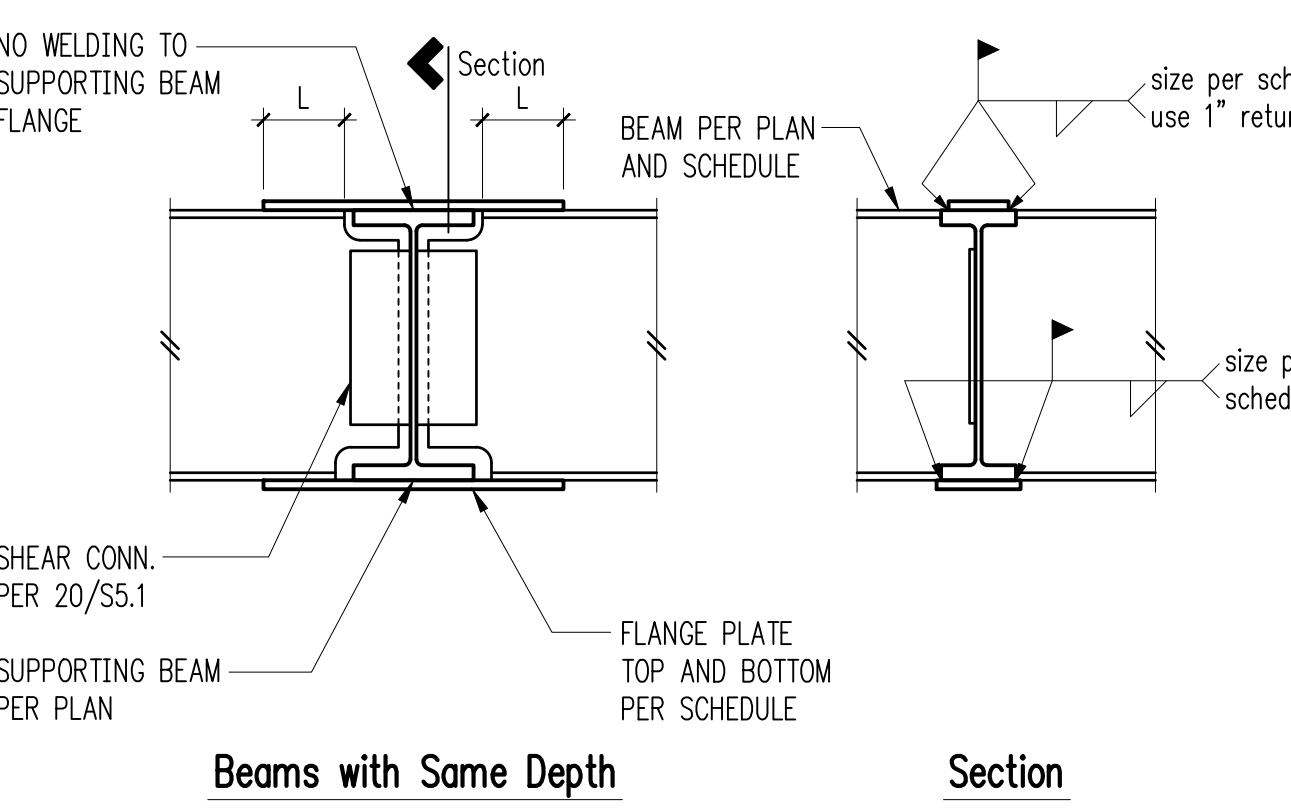
Typical Beam to Beam Connection



- NOTES:
- ALL STUDS AT 8" WALLS TO BE 3/4"Ø x 4" U.N.O.
 - ALL STUDS AT WALLS > 8" TO BE 3/4"Ø x 6" U.N.O.
 - RETURN WELD TOLERANCE = +1/4, -0.



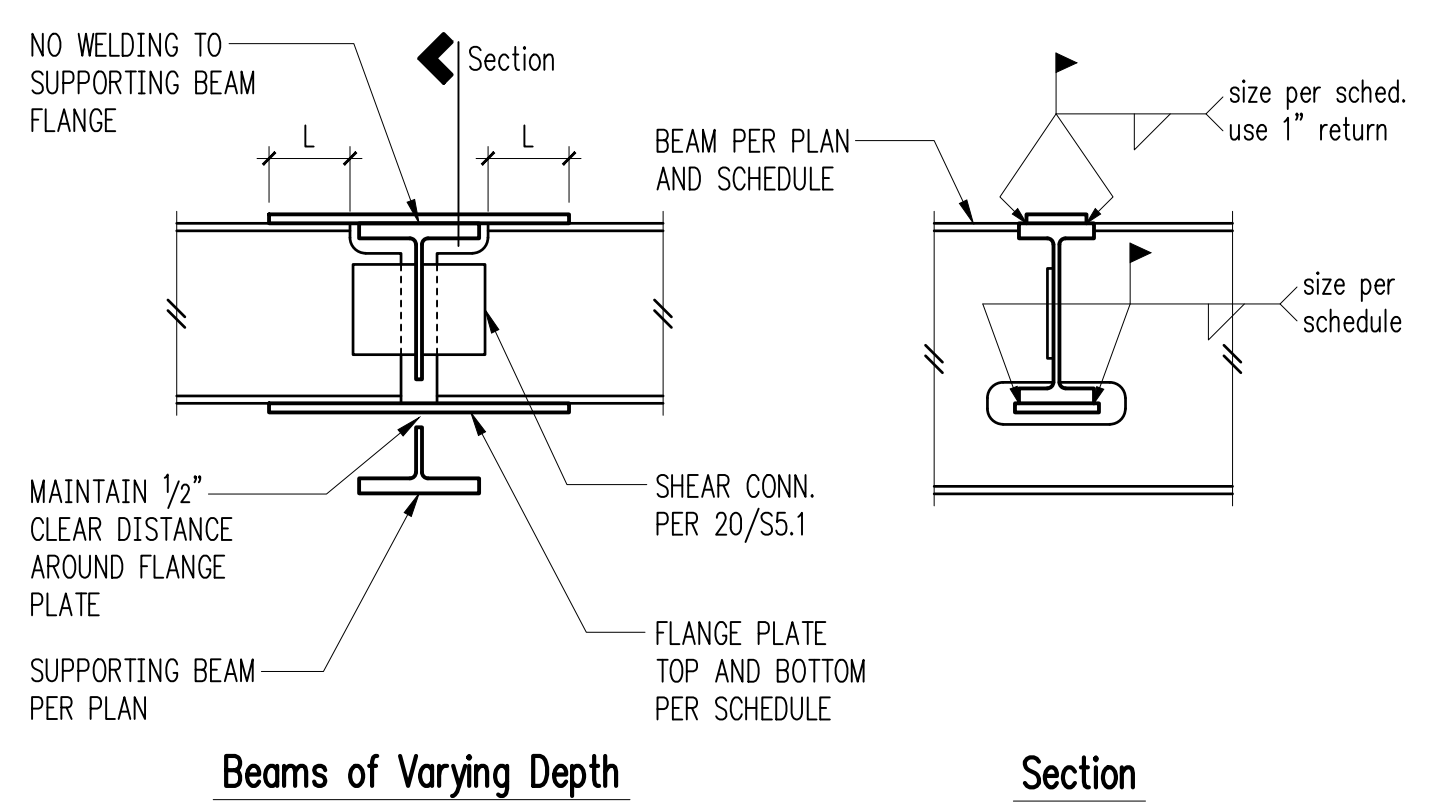
Typical Pipe Pile Assembly Schedule



Beams with Same Depth

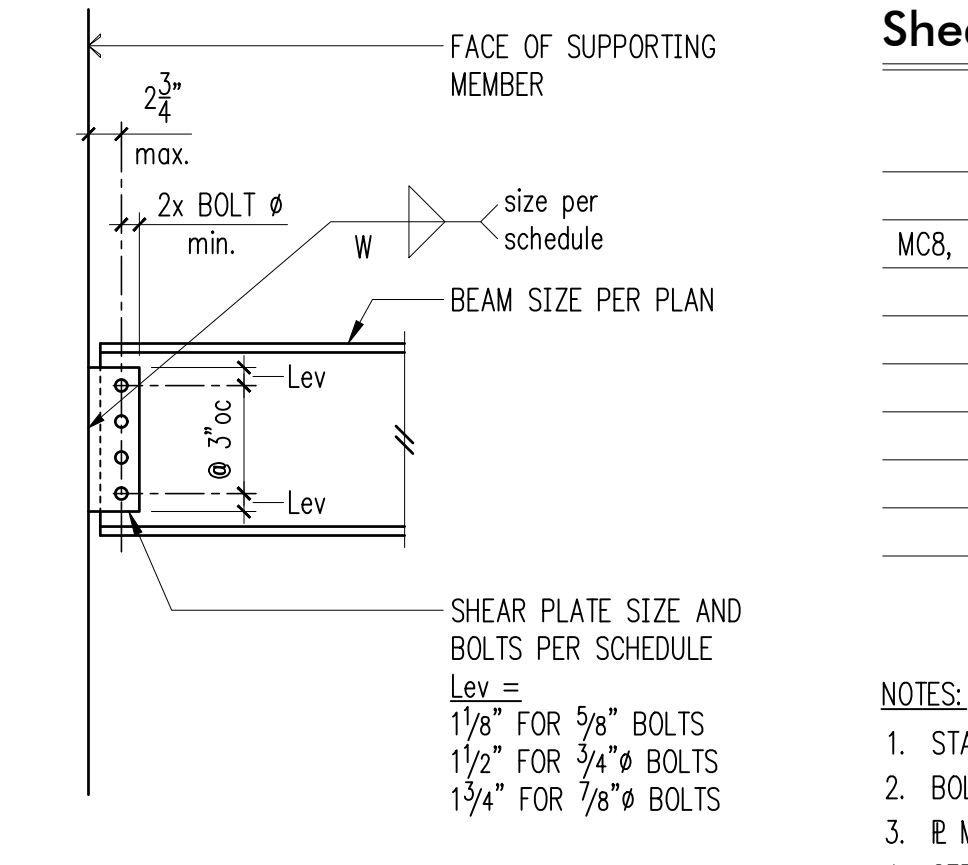
Moment Connection Schedule

Beam Size	Flange Plates (thickness & width) Top	Bottom	L	Weld Size
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-



Beams of Varying Depth

Beam To Beam Moment Connection

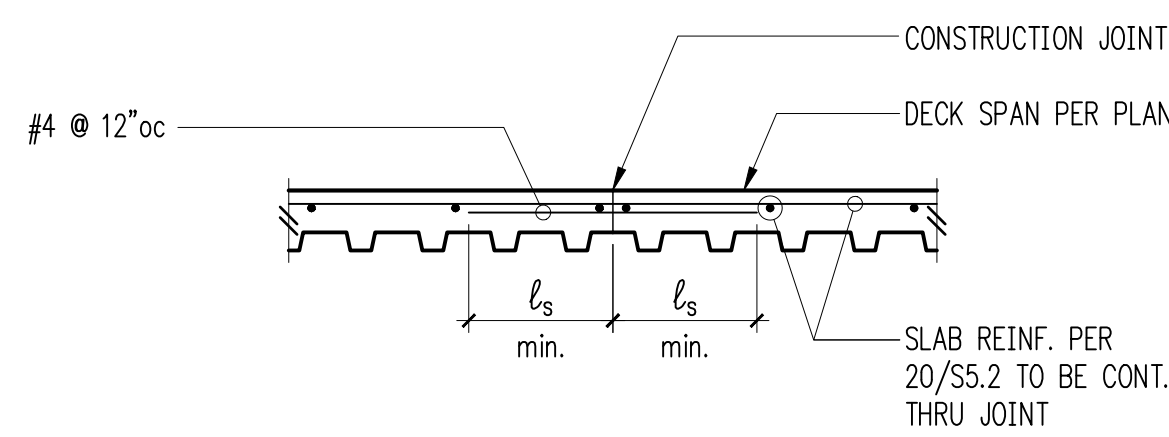


Shear Plate Schedule

Beam Size	No. of Bolts	Bolt Size	Plate Thickness	Weld Size
C6, W6, MC7, HSS 5 1/2, HSS 6	2	5/8"Ø @ 2" SPACING	1/4"	3/16"
MC8, MC9, MC10 C7, C8, C9, C10, W8, W10, HSS 8	2	5/8"Ø	3/4"	3/16"
C12, C15, MC12, W12, W14	3	3/4"Ø	3/4"	3/16"
W16	4	3/4"Ø	3/4"	3/16"
W18	4	3/4"Ø	3/8"	3/16"
W21	4	7/8"Ø	3/8"	3/16"
W24	5	7/8"Ø	3/8"	3/16"
W27	6	7/8"Ø	3/8"	3/16"
W30	7	7/8"Ø	3/8"	3/16"

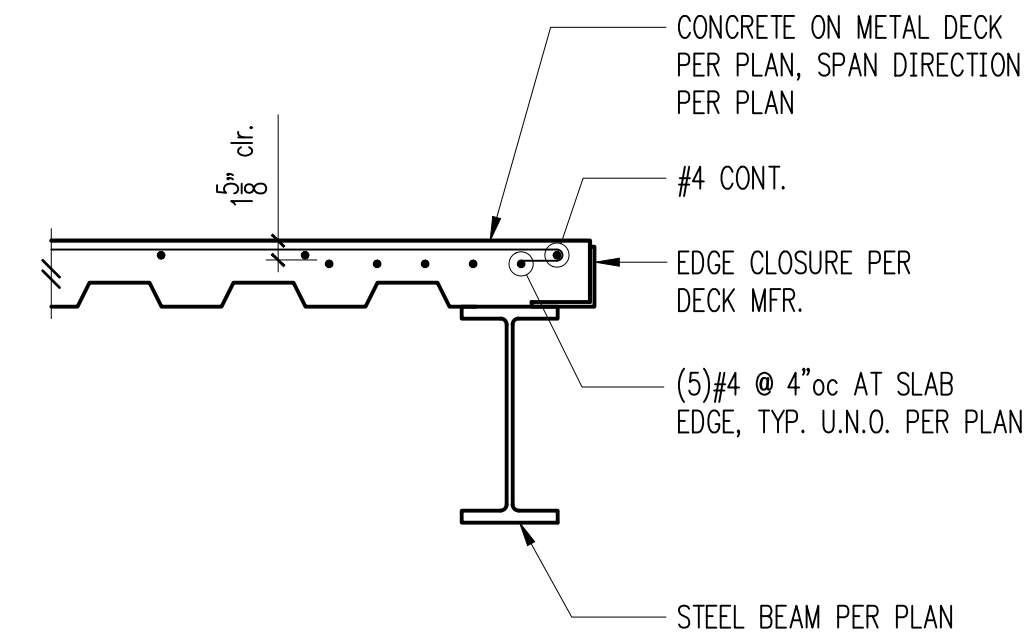
- NOTES:
- STANDARD OR SLOTTED HOLES MAY BE USED.
 - BOLT TYPE A325N.
 - E MATERIAL - A36
 - SEE EXTENDED DETAIL FOR COLUMN WEB CONNECTIONS.
 - AT HSS BEAMS, PROVIDE SHEAR PLATE EACH SIDE OF BEAM W/ THRU BOLT SIZE PER SCHEDULE, U.N.O.

Typical Single Shear Plate Connection and Schedule

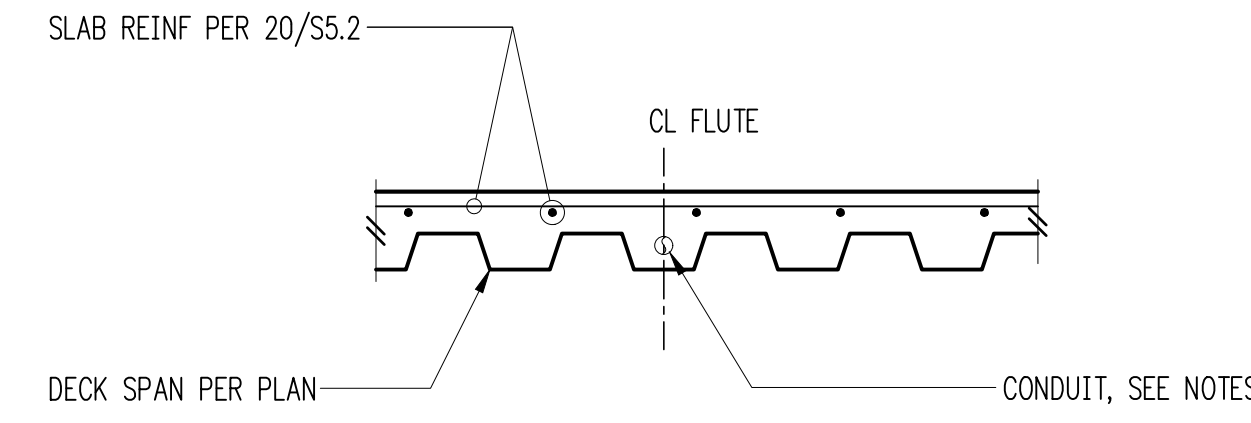


- NOTES:
- ENGINEER TO REVIEW AND APPROVE ALL CONSTRUCTION JOINT LOCATIONS PRIOR TO FORMING.

Typical Construction Joint 1

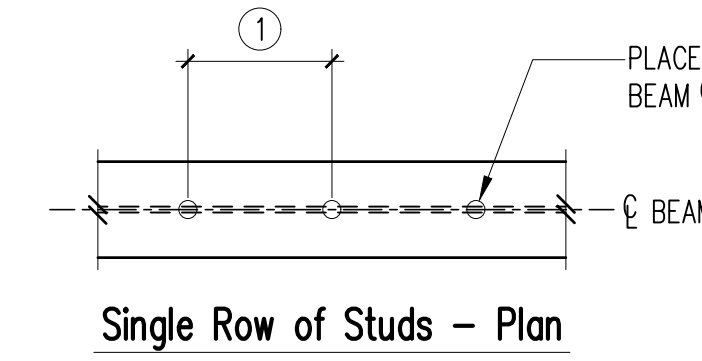
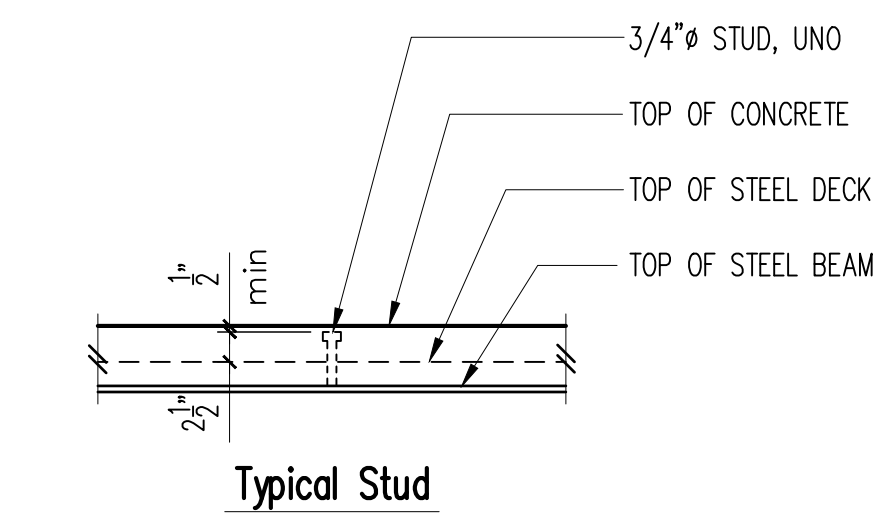


Typical Slab Edge Reinforcement 2



- NOTES:
- CONDUIT TO BE PLACED IN THE DECK FLUTES ONLY.
 - MAXIMUM CONDUIT DIAMETER = 1-1/2", AND CONDUITS TO BE SPACED AT 3'-0" OC MINIMUM.
 - CONDUIT TO BE TIED TO REINFORCEMENT AT CENTER OF FLUTE.

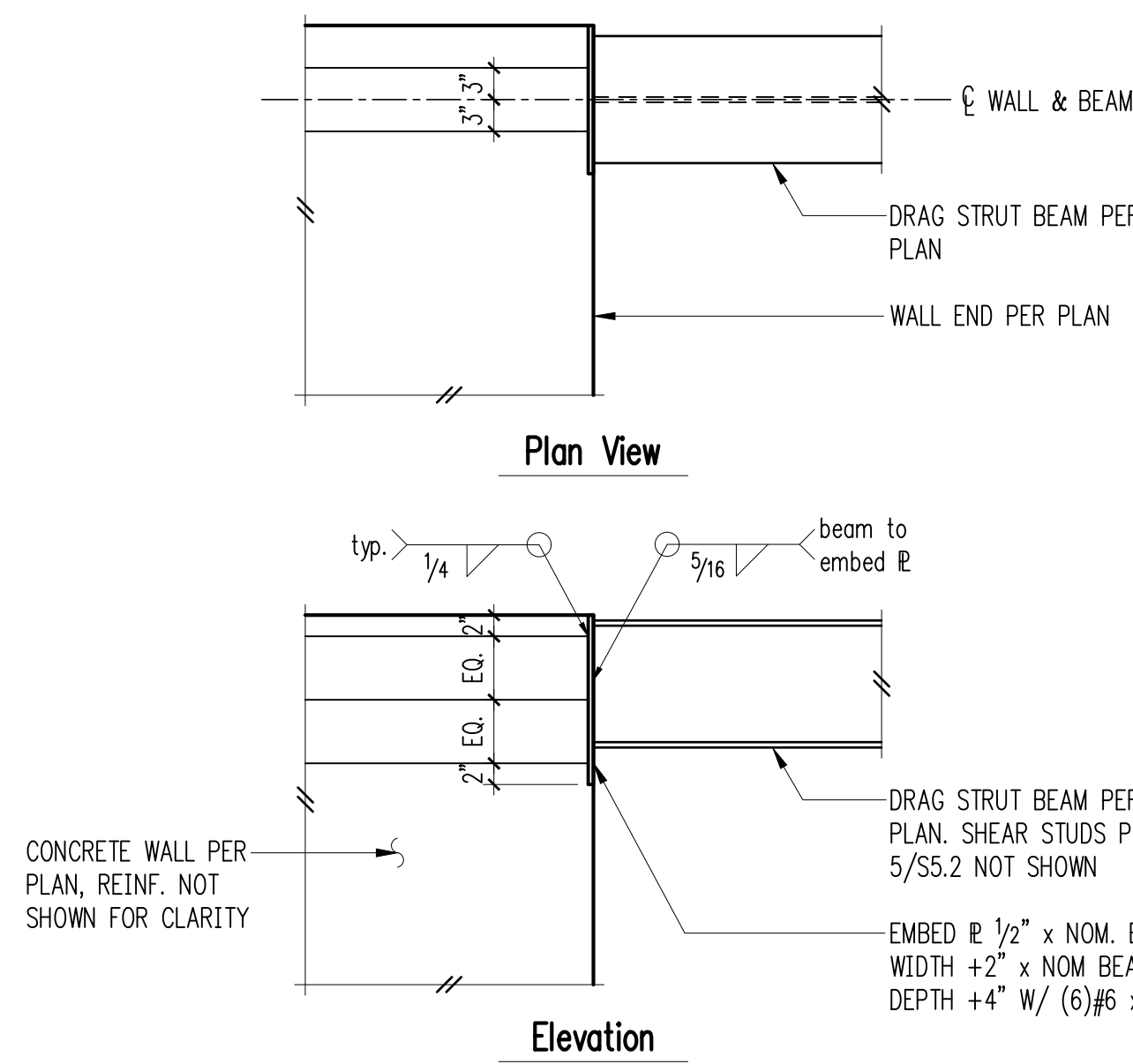
Typical Conduit Placement Criteria at Slab on Metal Deck 3



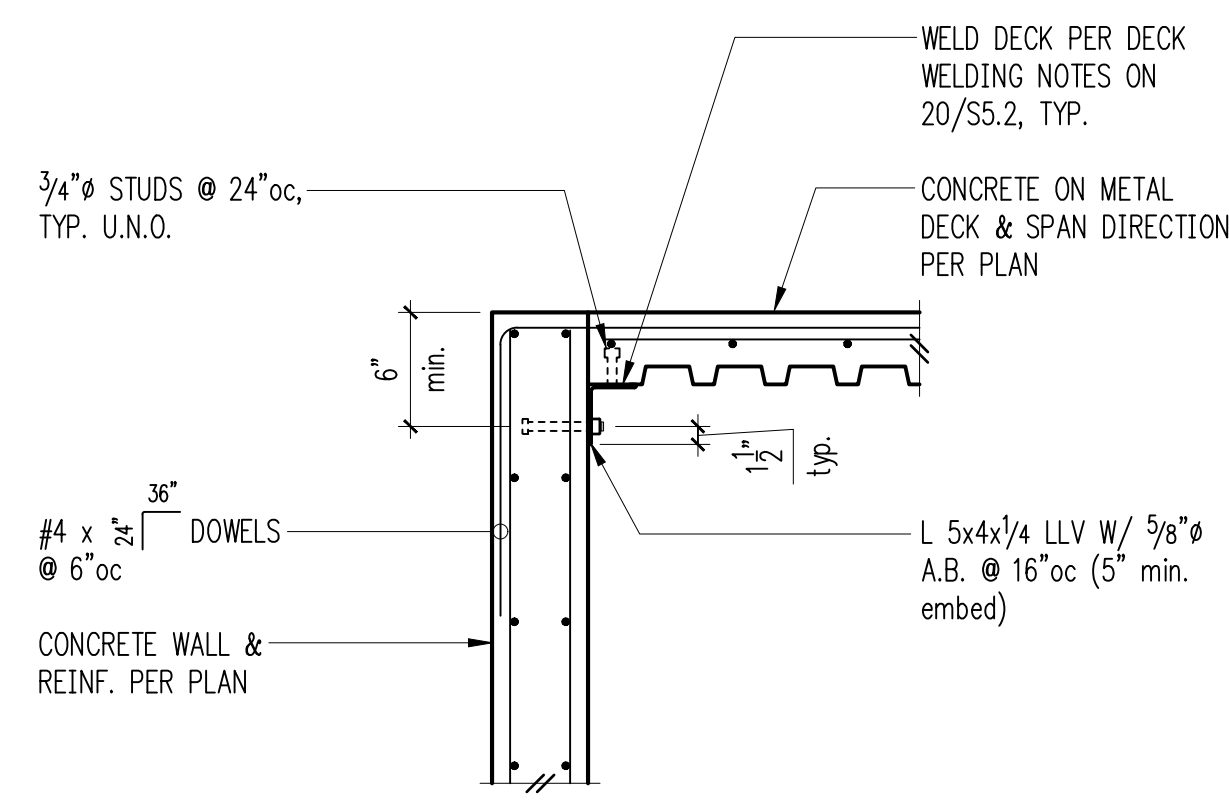
NOTES:

- SEE PLAN AND DETAILS FOR REQUIRED NUMBER OF STUDS. STUDS SHALL BE PLACED AT A MAXIMUM SPACING OF 2'-0" ALONG THE BEAM AXIS. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
- UNLESS NOTED OTHERWISE, STUDS ARE TO BE EQUALLY SPACED ALONG THE BEAM LENGTH AND PLACED SYMMETRICALLY ABOUT THE BEAM CENTERLINE AXIS. IF EQUAL SPACING IS NOT POSSIBLE DUE TO DECK CONFIGURATION, THE STRUCTURAL ENGINEER SHALL BE NOTIFIED.
- FOR DECK FLUTES PARALLEL TO THE BEAM, THE FIRST STUD SHALL BE PLACED 6" FROM THE BEAM ENDS. FOR DECK FLUTES PERPENDICULAR TO THE BEAM, THE FIRST STUD SHALL BE PLACED IN THE FLUTE CLOSEST TO THE BEAM ENDS.

Typical Shear Stud Placement at Braced Frame Beams and Drag Struts 5

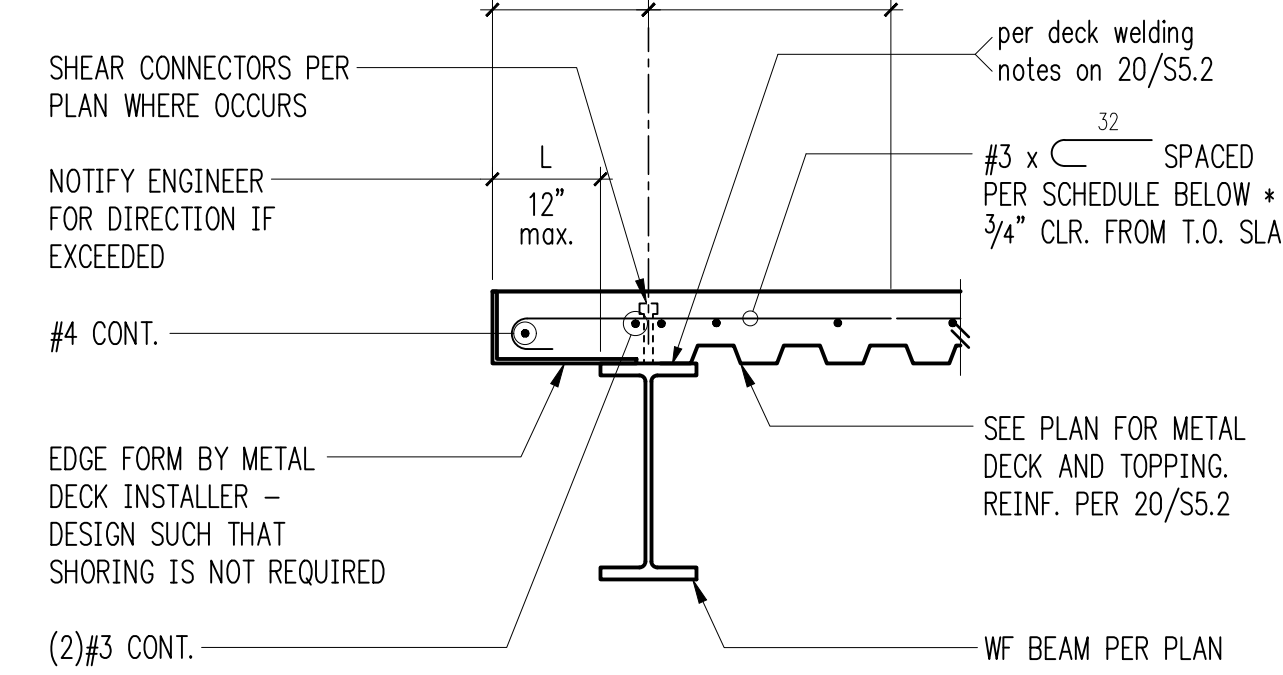


Drag Strut Connection at Concrete Wall 6



- NOTES:
- DECK LEDGER OCCURS AT ALL INTERSECTIONS OF FLOOR DECK AND CONCRETE WALLS, U.N.O.
 - COORDINATE ANCHOR BOLT LOCATIONS WITH WALL REINFORCEMENT LAYOUT.

Typical Deck Connection to Concrete Wall 7

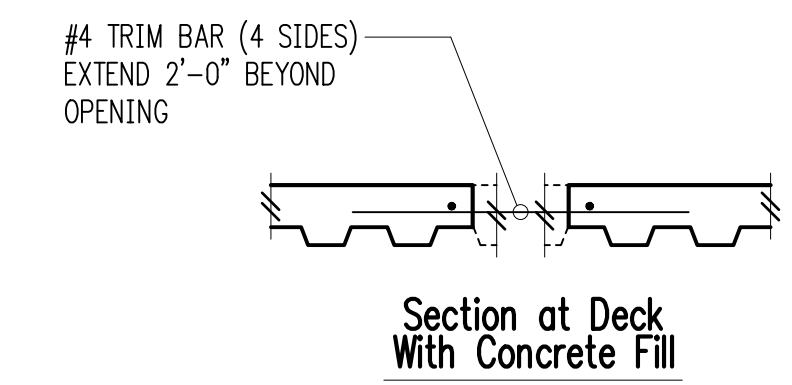


Spacing Schedule

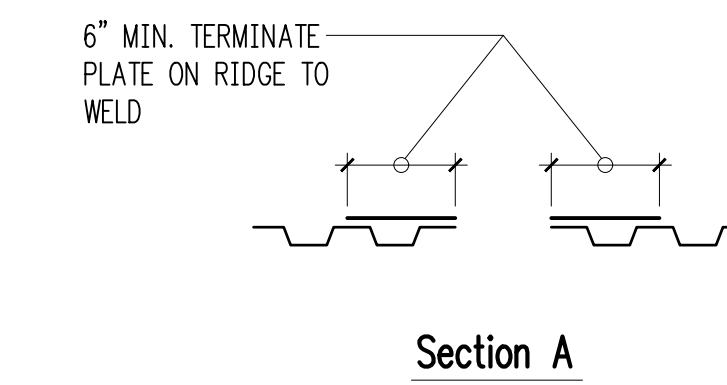
$L \leq 4'2"$	OMIT #3 BARS
$4'2" < L \leq 8'$	32"oc
$8' < L \leq 12'$	24"oc

Cantilevered Floor Deck Parallel to Beam 8

- FOR HOLES 4" DIA. OR LESS OR 4" SQUARE OR LESS, NO STRENGTHENING IS REQUIRED PROVIDED THAT HOLES ARE NOT CLOSER THAN 12"oc
- FOR HOLES GREATER THAN 4" UP TO 8" DIA. OR 8" SQUARE, PROVIDED HOLES ARE NOT CLOSER THAN 3'-0"oc

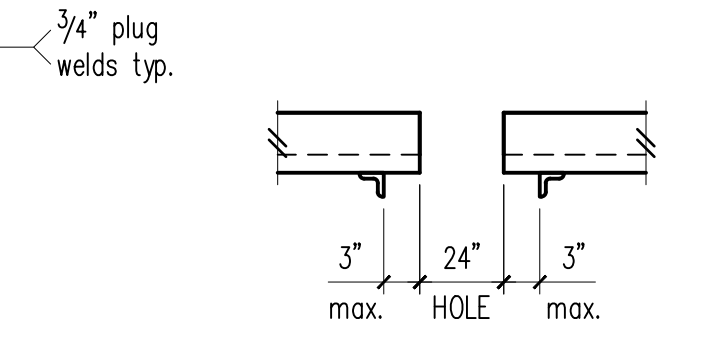
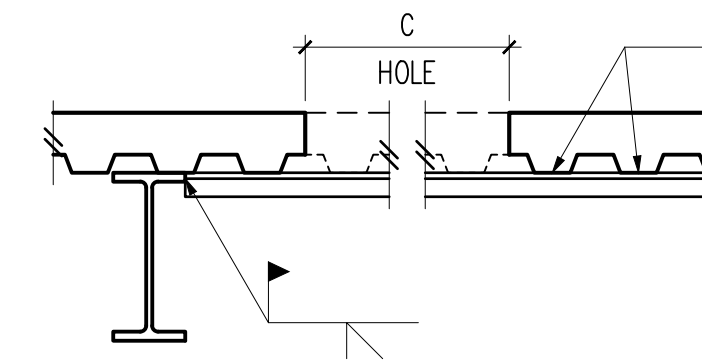


Section at Deck With Concrete Fill



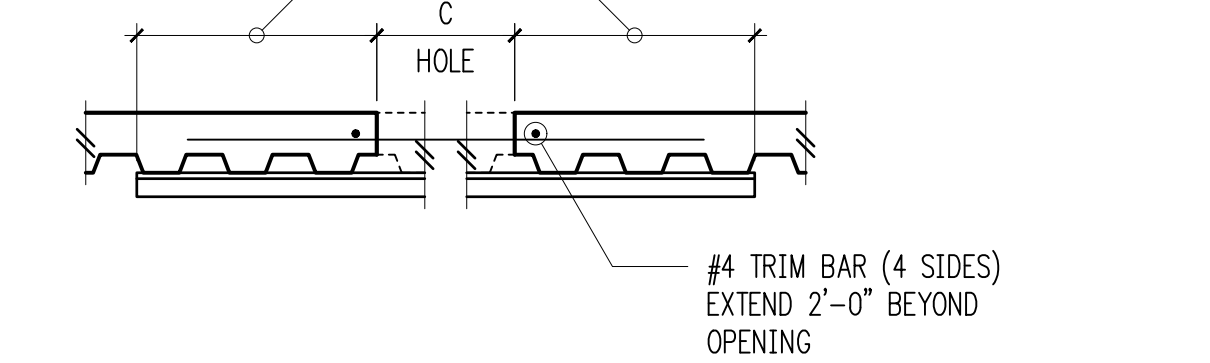
Section A

- FOR HOLES GREATER THAN 8" UP TO 24" DIA. OR 24" SQUARE, PROVIDE L 2x2x7/16 AS SHOWN BELOW:

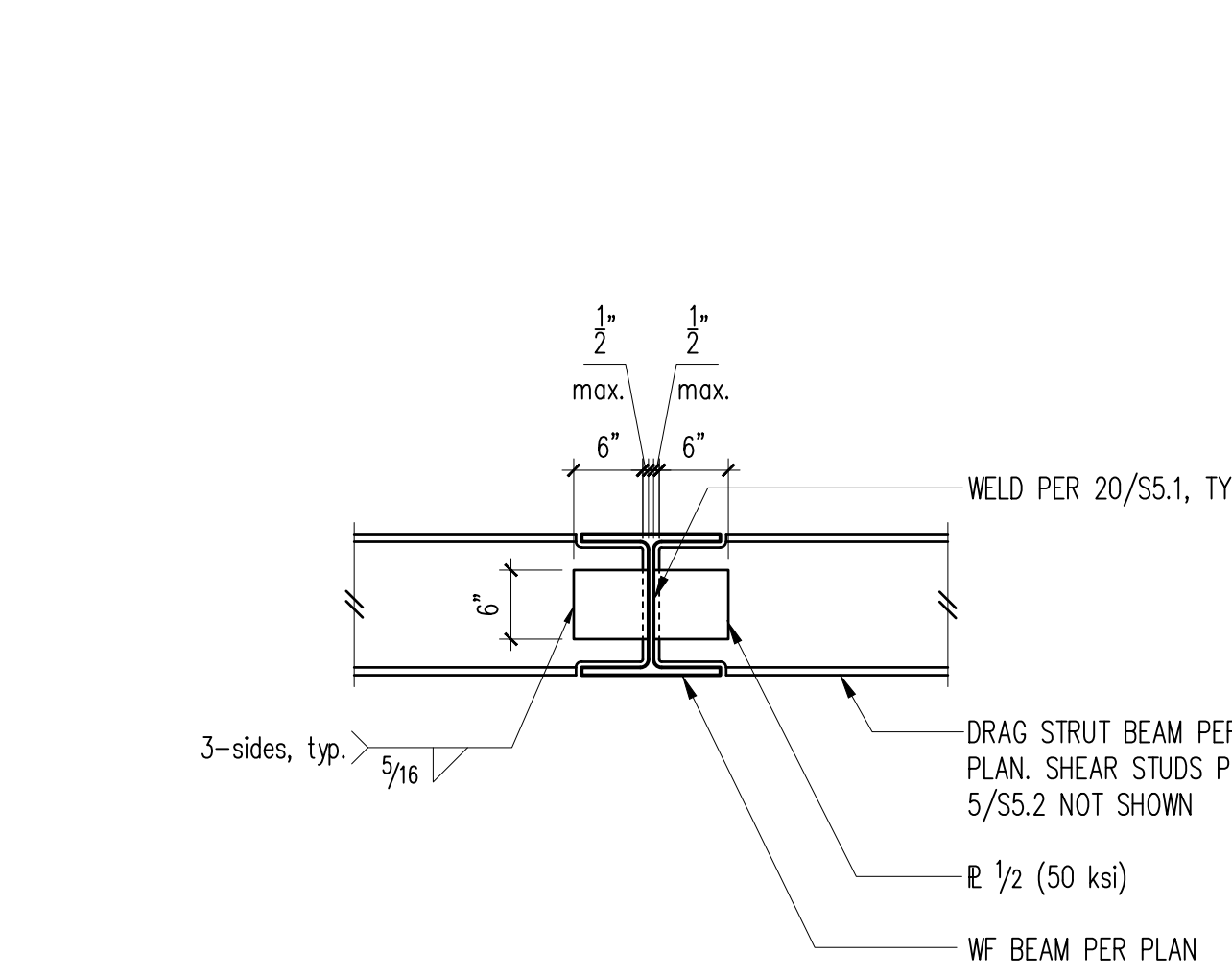


Square or Round Holes of Deck Without Concrete Fill

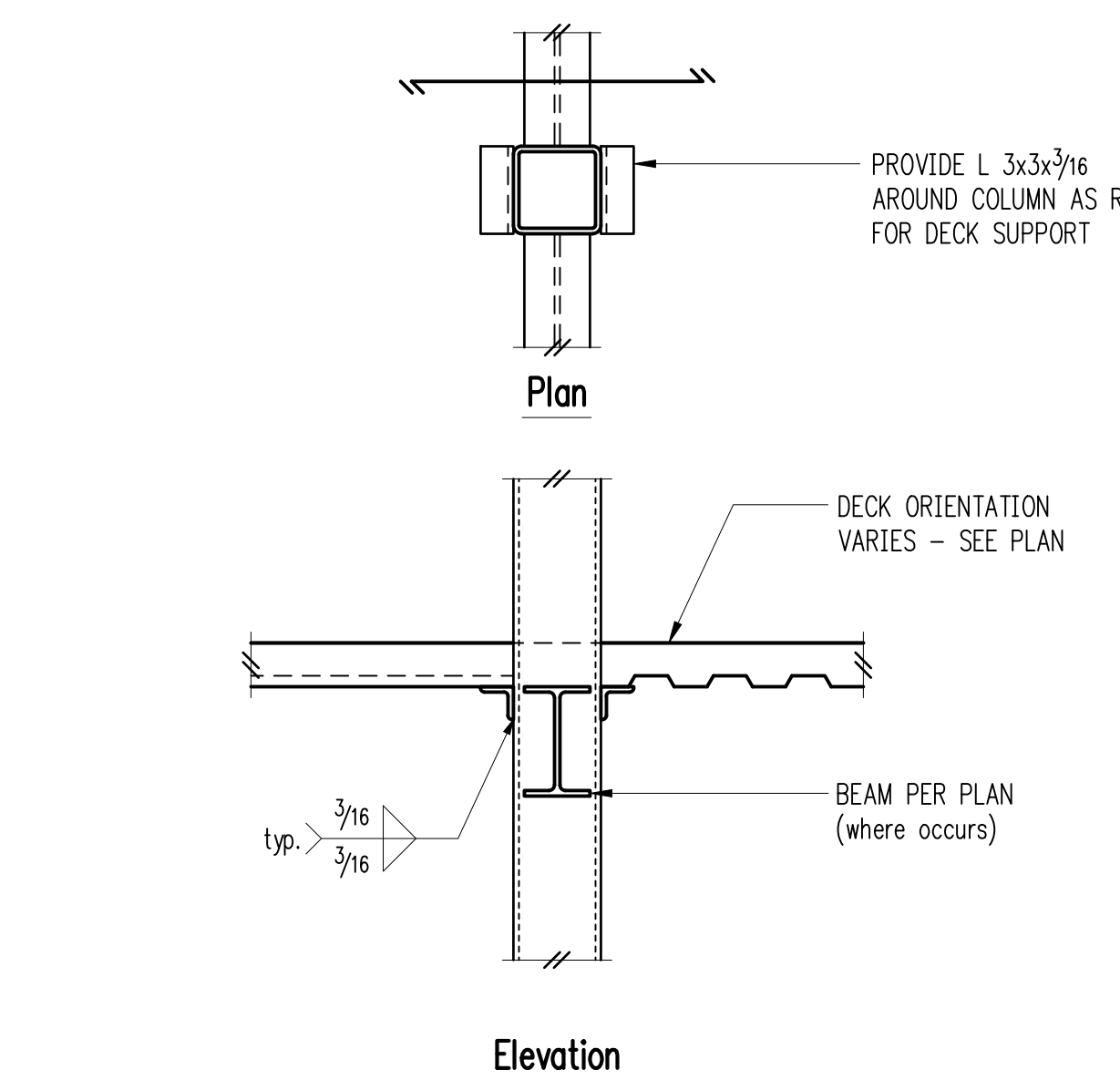
- 2 CELLS FOR C=8" TO 14" OR 3 CELLS FOR C=14" TO 24" (TYP.)



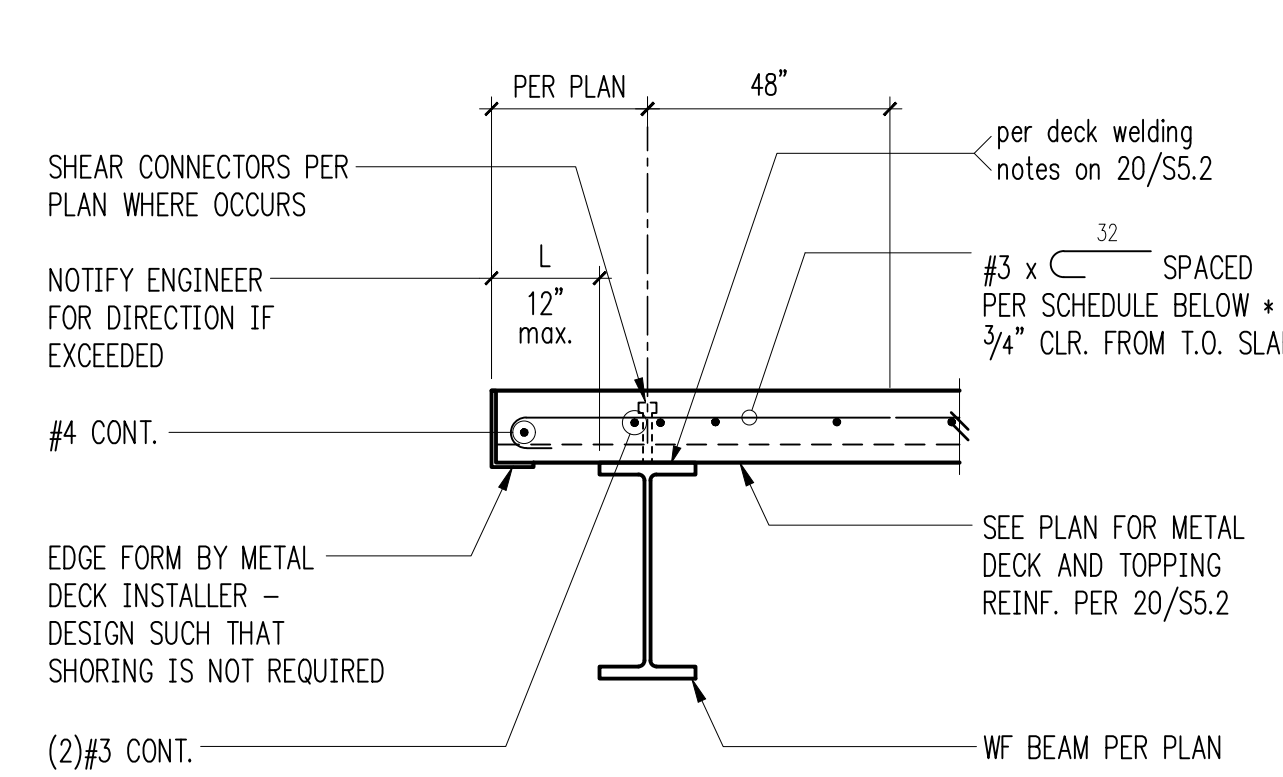
Floor Deck Reinforcement at Small Openings 10



Drag Strut Beam Connection 11



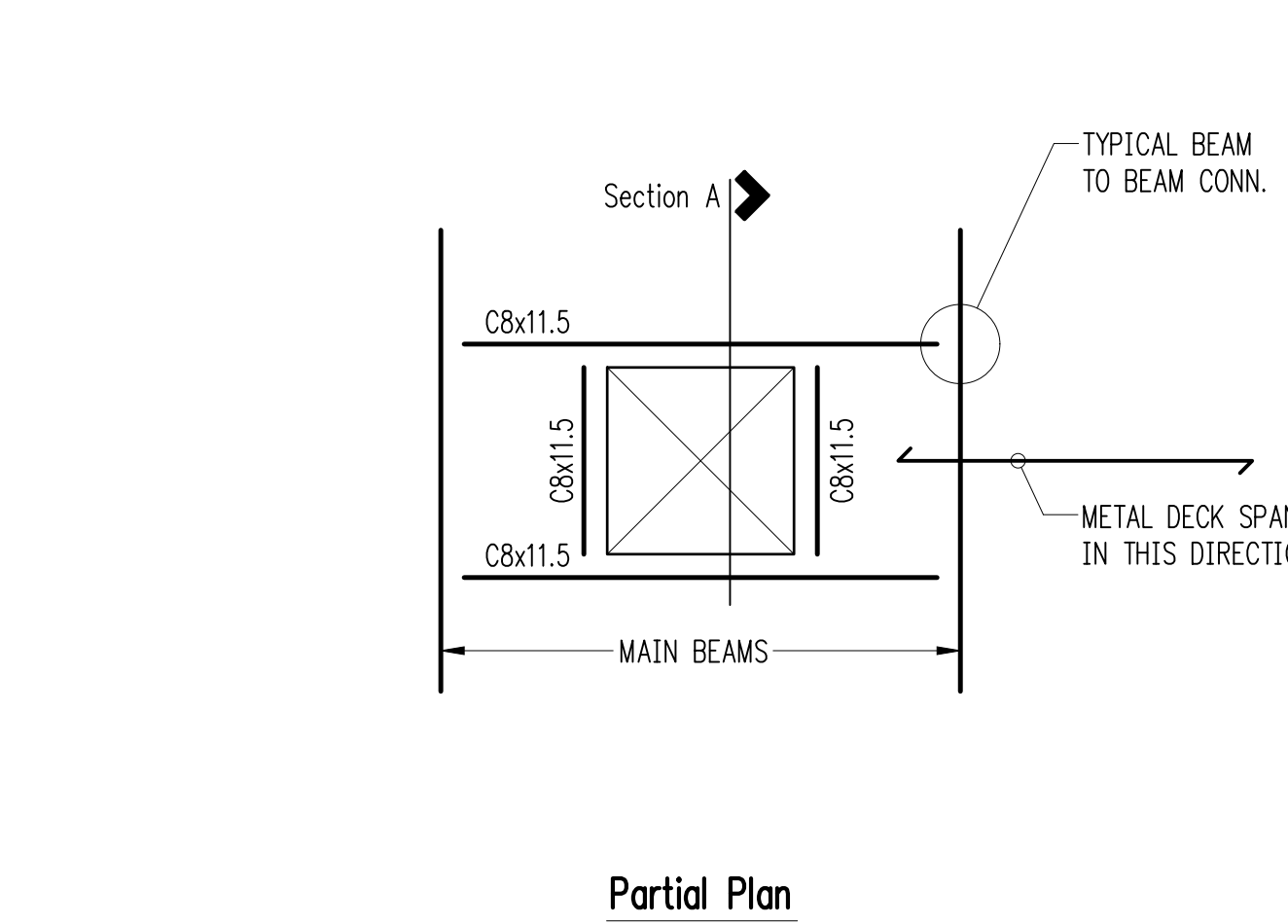
Floor Deck Support at Columns 12



Spacing Schedule

$L \leq 6'$	OMIT #3 BARS
$6' < L \leq 10'$	32"oc
$10' < L \leq 18'$	24"oc

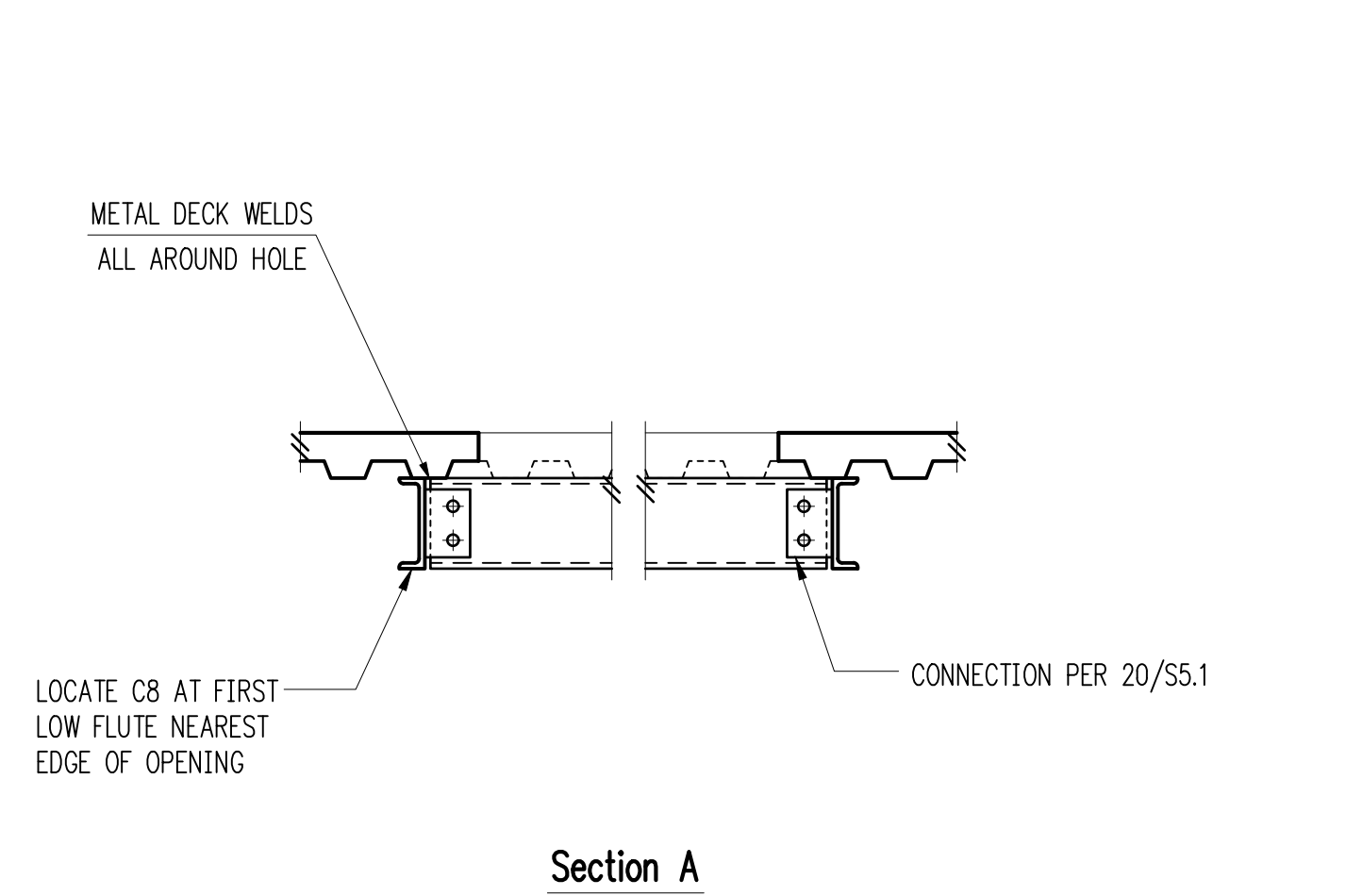
Cantilevered Floor Deck Perpendicular to Beam 13



Partial Plan

NOTES:

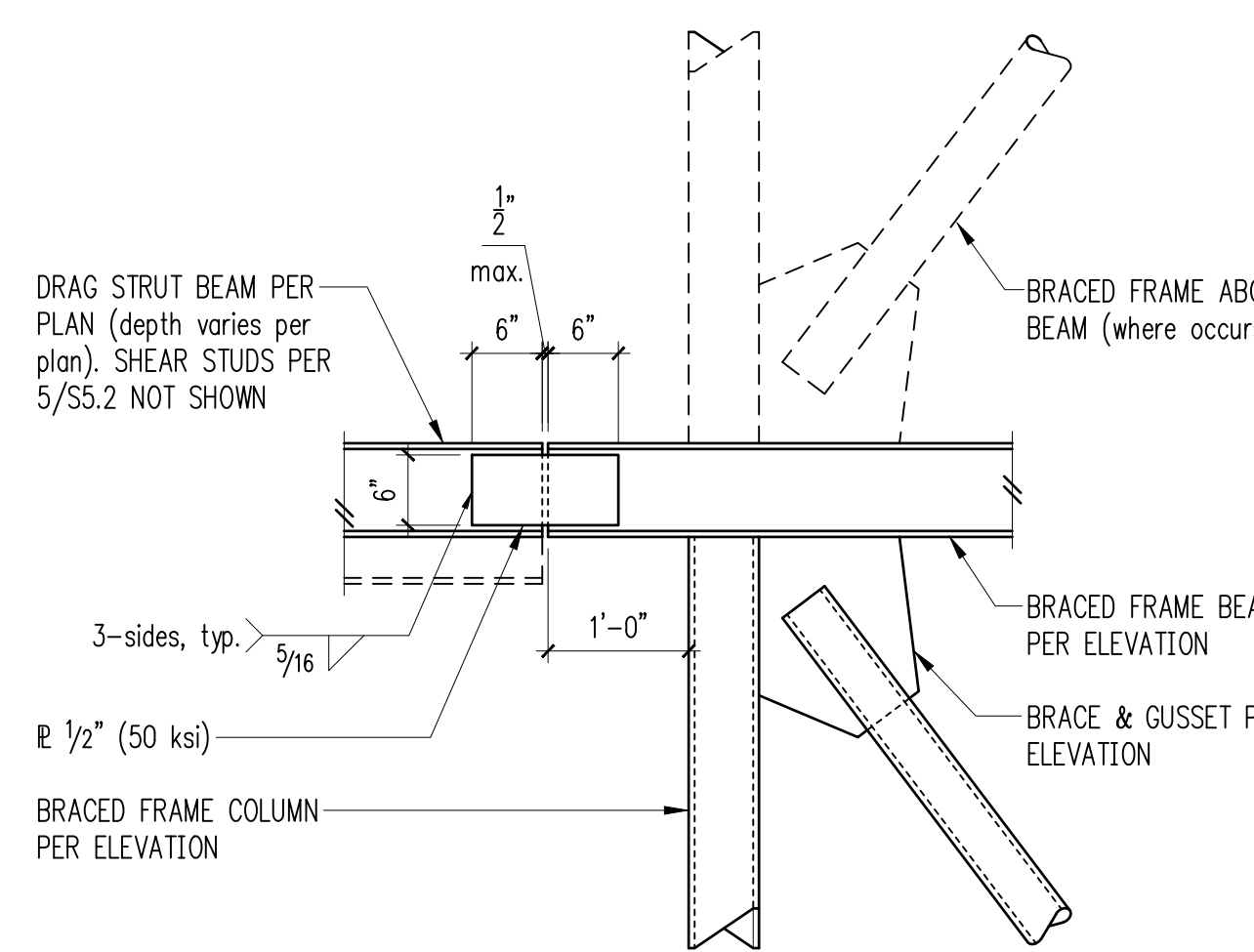
- WELD DECK TO MEMBERS WITH 1/2" DIA. PUDDLE WELDS @ 6"oc ALL AROUND



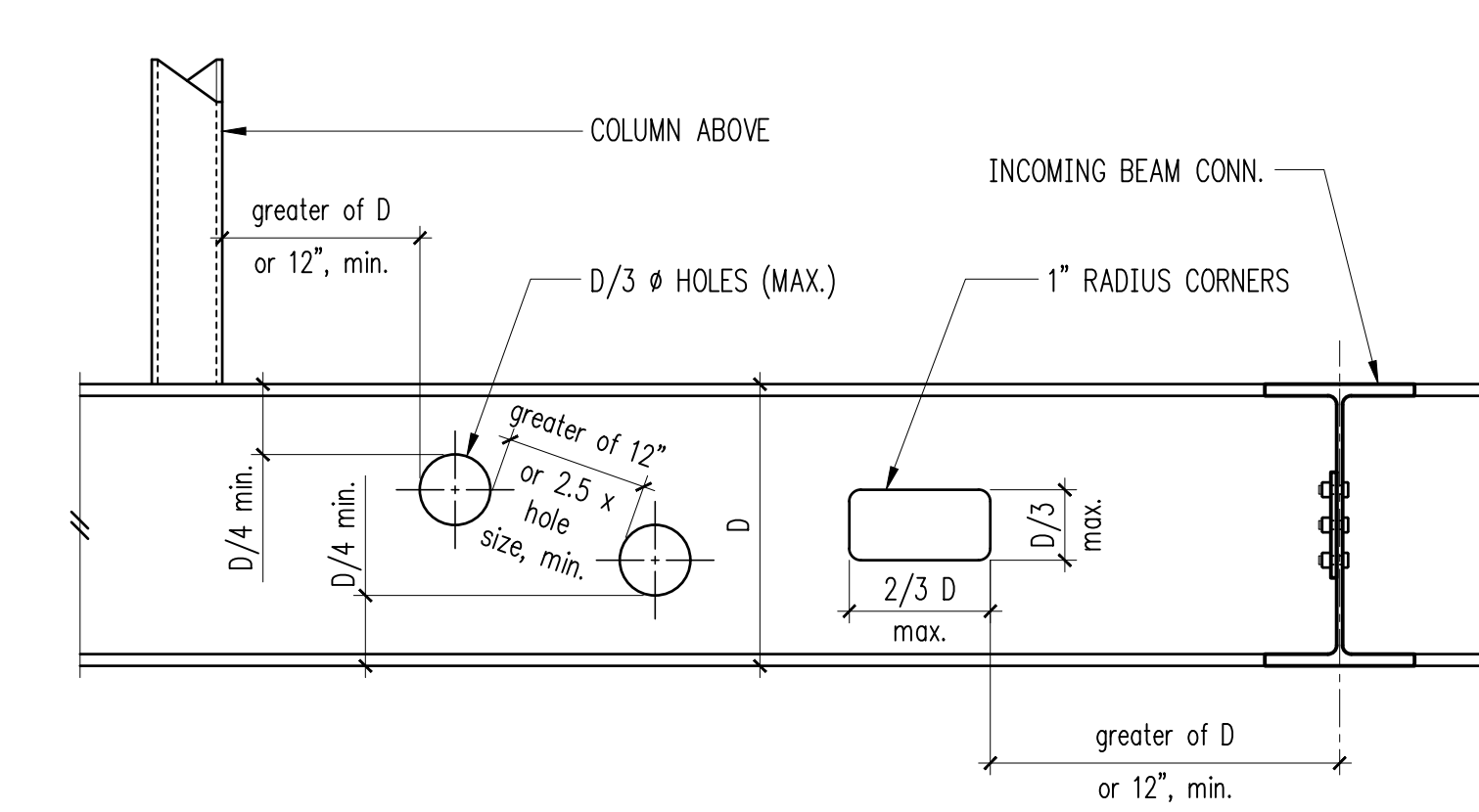
Section A

- FOR HOLES GREATER THAN 24" DIA. OR 24" SQ. - U.N.O. ON PLAN

Floor Deck Reinforcement at Large Openings 15



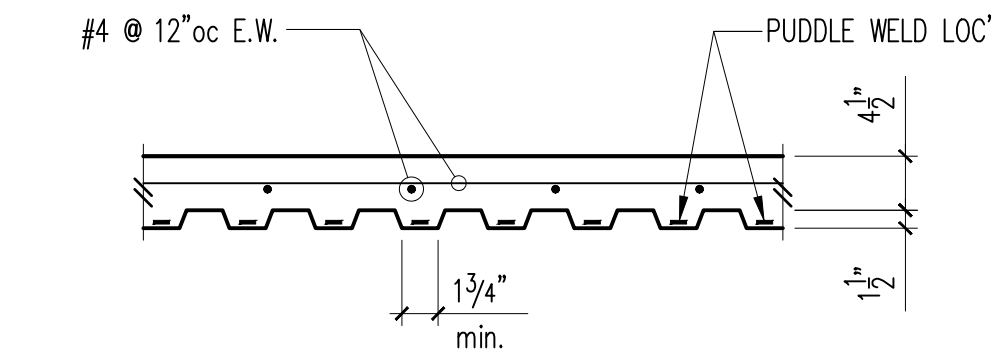
Drag Strut Connection to Braced Frame 16



NOTES:

- CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS OF ALL BEAM PENETRATIONS WITH MECHANICAL DRAWINGS. ALL PENETRATIONS THAT ARE LARGER THAN 2" AND/OR DO NOT MEET THE CRITERIA IN THIS DETAIL SHALL BE SHOWN ON SHOP DRAWINGS OR SKETCHES AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AND REINFORCING DESIGN. FIELD CUTTING NOT PERMITTED WITHOUT APPROVAL.
- OPENINGS MAY OCCUR IN MIDDLE HALF OF BEAM SPAN ONLY. BEAM SPAN LENGTH IS MEASURED AS CLEAR DISTANCE FROM FACE OF SUPPORT BELOW TO ADJACENT FACE OF SUPPORT BELOW.
- NO CUTTING MAY OCCUR IN TOP OR BOTTOM QUARTER OF BEAM DEPTH.
- ADJACENT OPENINGS MUST BE SPACED AT THE LESSER OF, 12" OR 2.5 x LARGER OPENING SIZE, EDGE TO EDGE.
- MAXIMUM SIZES OF OPENINGS SHALL BE D/3 OR D/3 x 2D/3 AS SHOWN.
- NO OPENINGS SHALL OCCUR WITHIN THE GREATER OF 12" OR CLEAR MINIMUM OF AN ADJACENT BEAM CONNECTION OR COLUMN ABOVE.

Typical WF Steel Beam Penetration Layout Criteria 18



Vero PLB-36, G60 Coating With Following Minimum Properties

18 GA
 $I = 0.302 \text{ in}^4$
 $S = 0.314 \text{ in}^3 / -0.331 \text{ in}^3$
 $F_y = 50 \text{ ksi}$

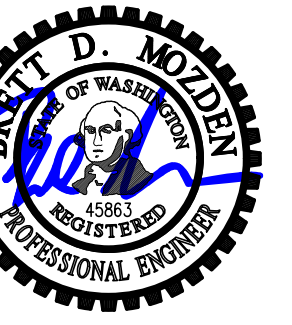
PANEL WIDTH = 36"

REQUIRED SHEAR CAPACITY OF DECK = 3331 plf

NOTES:

- DECK AS NOTED TO THE LEFT SHALL HAVE SUPERIMPOSED LOAD CAPACITY INDICATED IN LOAD MAPS. MAXIMUM DECK SPAN = 6'-0" WITHOUT SHORING.
- PROVIDE (7) 5/8" PUDDLE WELDS PER SHEET TO ALL SUPPORTS PERPENDICULAR TO DECK FLUTES.
- PROVIDE 5/8" PUDDLE WELDS @ 12"oc TO ALL SUPPORTS PARALLEL TO DECK FLUTES.
- CONNECT DECK SEAMS WITH VERO SIDELAP CONNECTIONS @ 8"oc.
- DECK TYPE MUST STRICTLY MEET CRITERIA LISTED ABOVE INCLUDING I.C.B.O. RESEARCH REPORT ALLOWABLE SHEAR AND SUPERIMPOSED LOADS. SUBMIT DECK INFORMATION TO ENGINEER PRIOR TO BEGINNING SHOP DRAWINGS.
- PROVIDE FACTORY-PUNCHED VENT TABS IN BOTTOM FLUTES PER MANUFACTURERS RECOMMENDATIONS. EXTERIOR DECK SHALL BE VENTED.
- REINFORCE DECK OPENINGS PER 10/SS.2 AND 15/SS.2.

Upper Level Deck 20



DESIGN: HAA, SRW
 DRAWN: NHD
 CHECKED: SRW
 APPROVED: BDM

REVISIONS:

JURISDICTIONAL APPROVAL STAMP:

1

2

3

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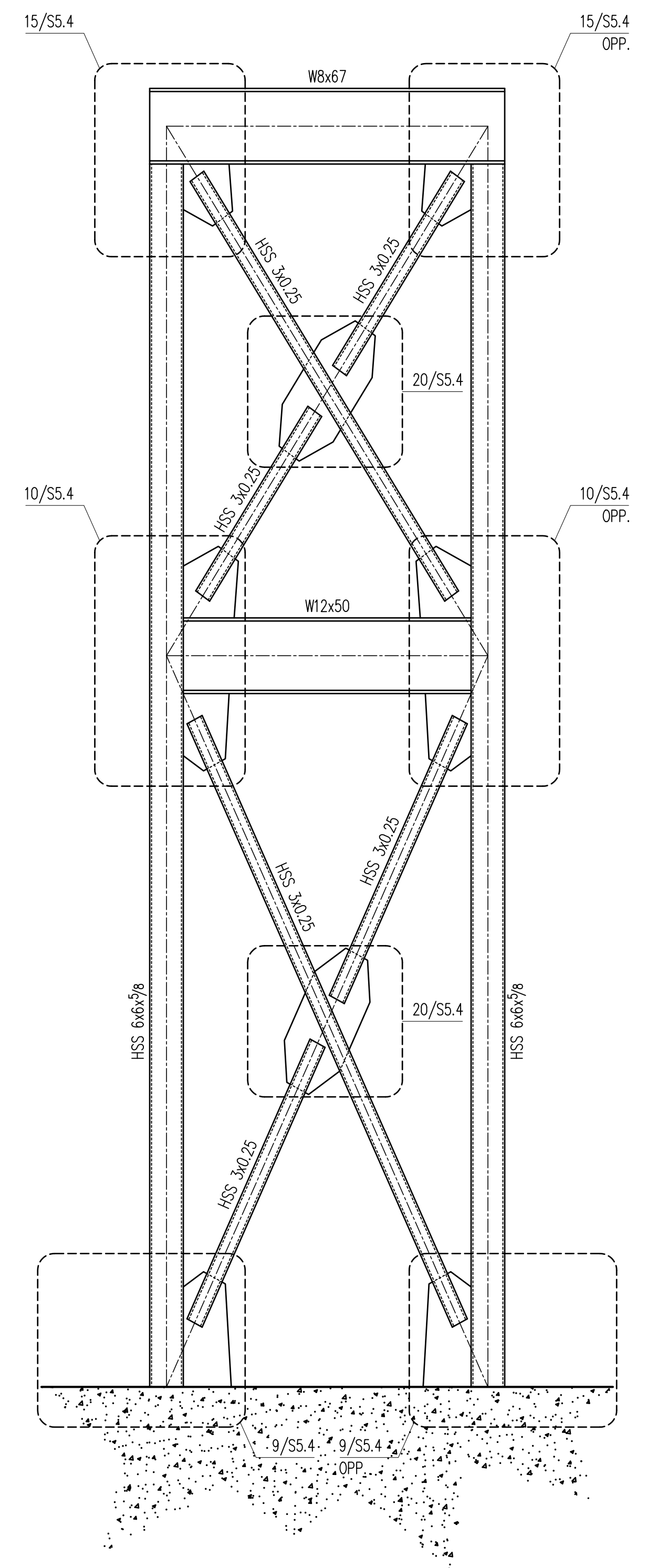
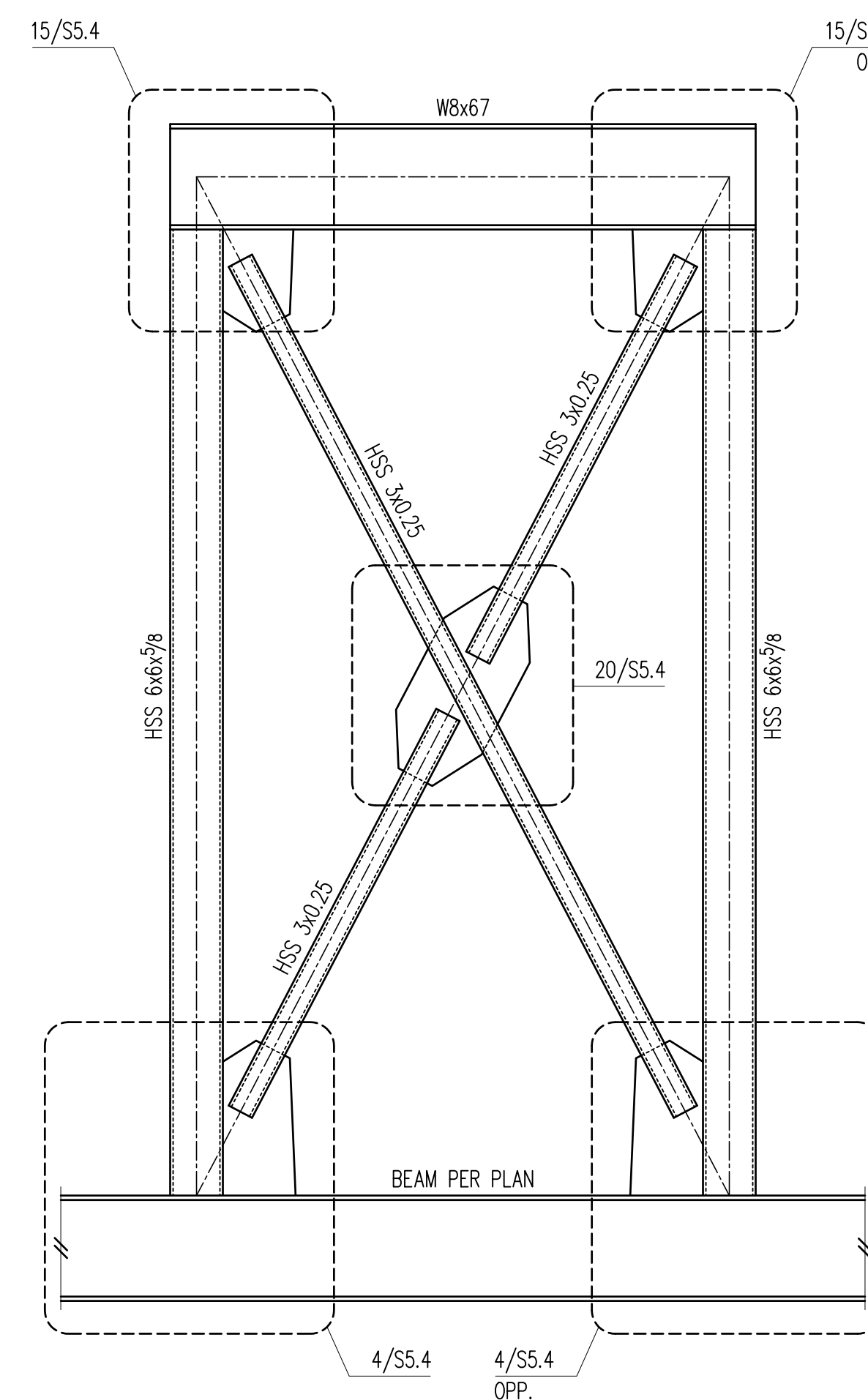
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17

18

Elevation 19

Elevation 20



PROJECT TITLE:
8480 Residence
 8480 85th Ave SE
 Mercer Island, WA 98040

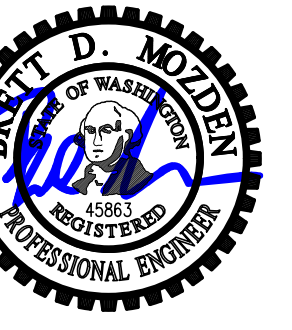
ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH: 206.239.0850
 brandtdesigninc.com

ISSUE:
PERMIT

SHEET TITLE:
**Steel Braced
 Frame Elevations**

SCALE: 1/2" = 1'-0" U.N.O.
 DATE: March 11, 2022
 PROJECT NO: 01519-2021-09
 SHEET NO:

S5.3



DESIGN: HAA, SRW
 DRAWN: NHD
 CHECKED: SRW
 APPROVED: BDM

REVISIONS:

JURISDICTIONAL APPROVAL STAMP:

PROJECT TITLE:
8480 Residence
 8480 85th Ave SE
 Mercer Island, WA 98040

ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH: 206.239.0850
 brandtdesigninc.com

ISSUE:

PERMIT

SHEET TITLE:

Steel Braced Frame Details

SCALE:

3/4" = 1'-0" U.N.O.

DATE:

March 11, 2022

PROJECT NO:

01519-2021-09

SHEET NO:

S5.4

1

2

3

Typical Braced Frame Base Connection at WF Beam 4

Typical Braced Frame Base Connection 5

6

7

8

Typical Braced Frame Base Plate at HSS Column 9

Top Connection at HSS Column 10

11

12

Typical Brace Protected Zones 13

Typical Brace Slot 14

Top Connection at HSS Column 15

16

17

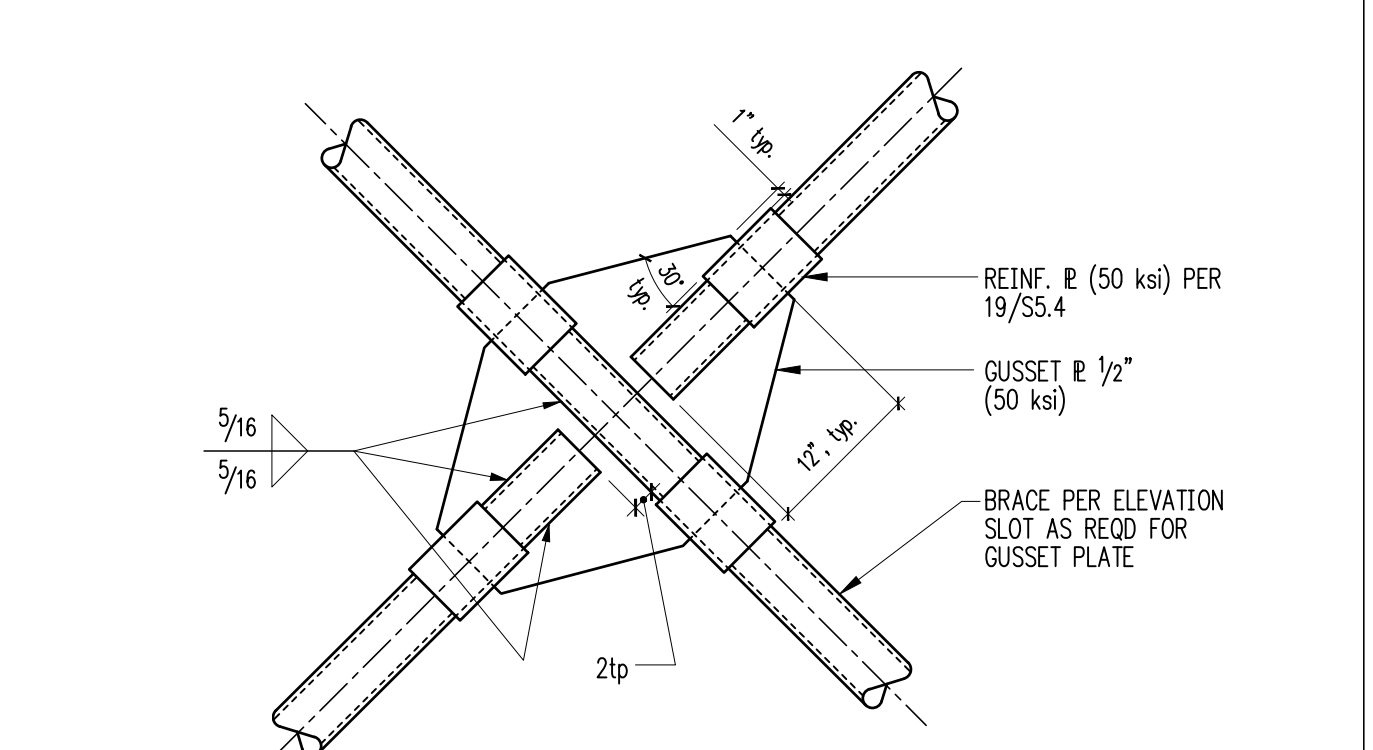
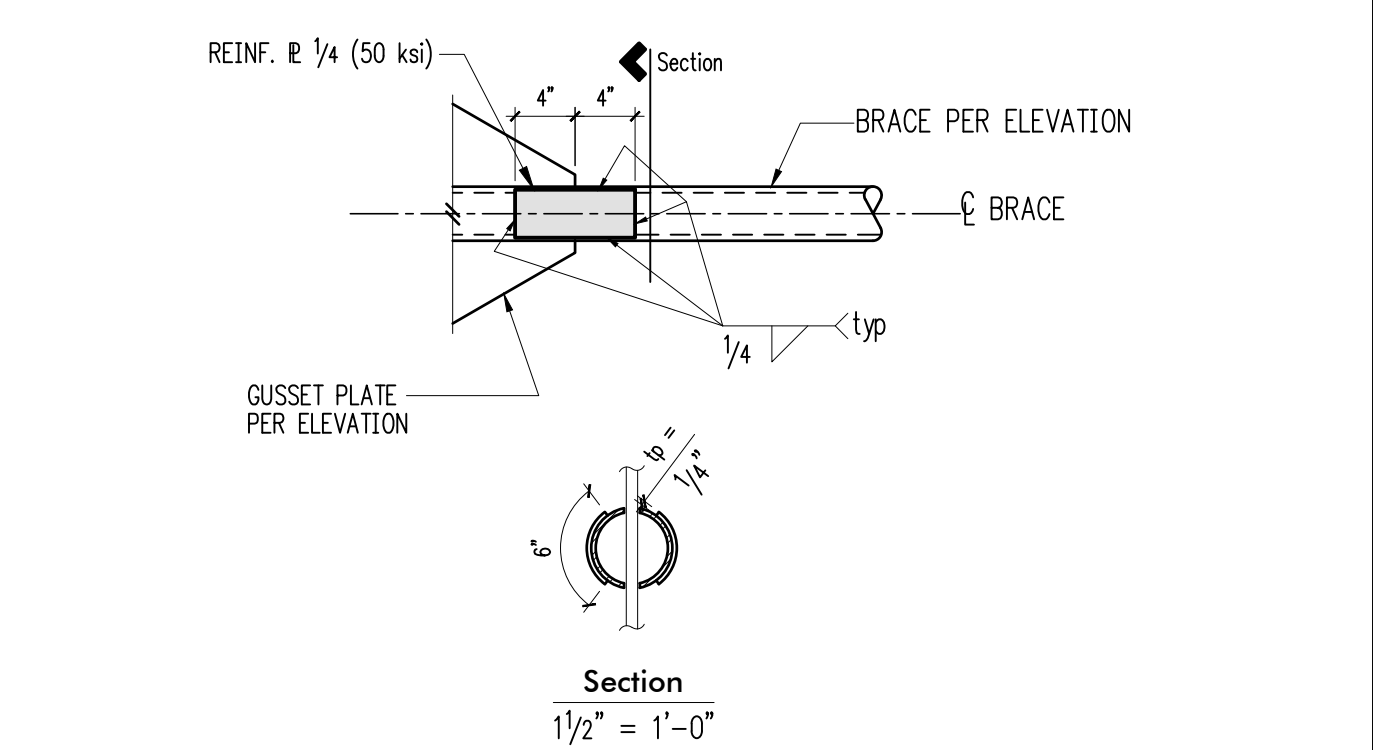
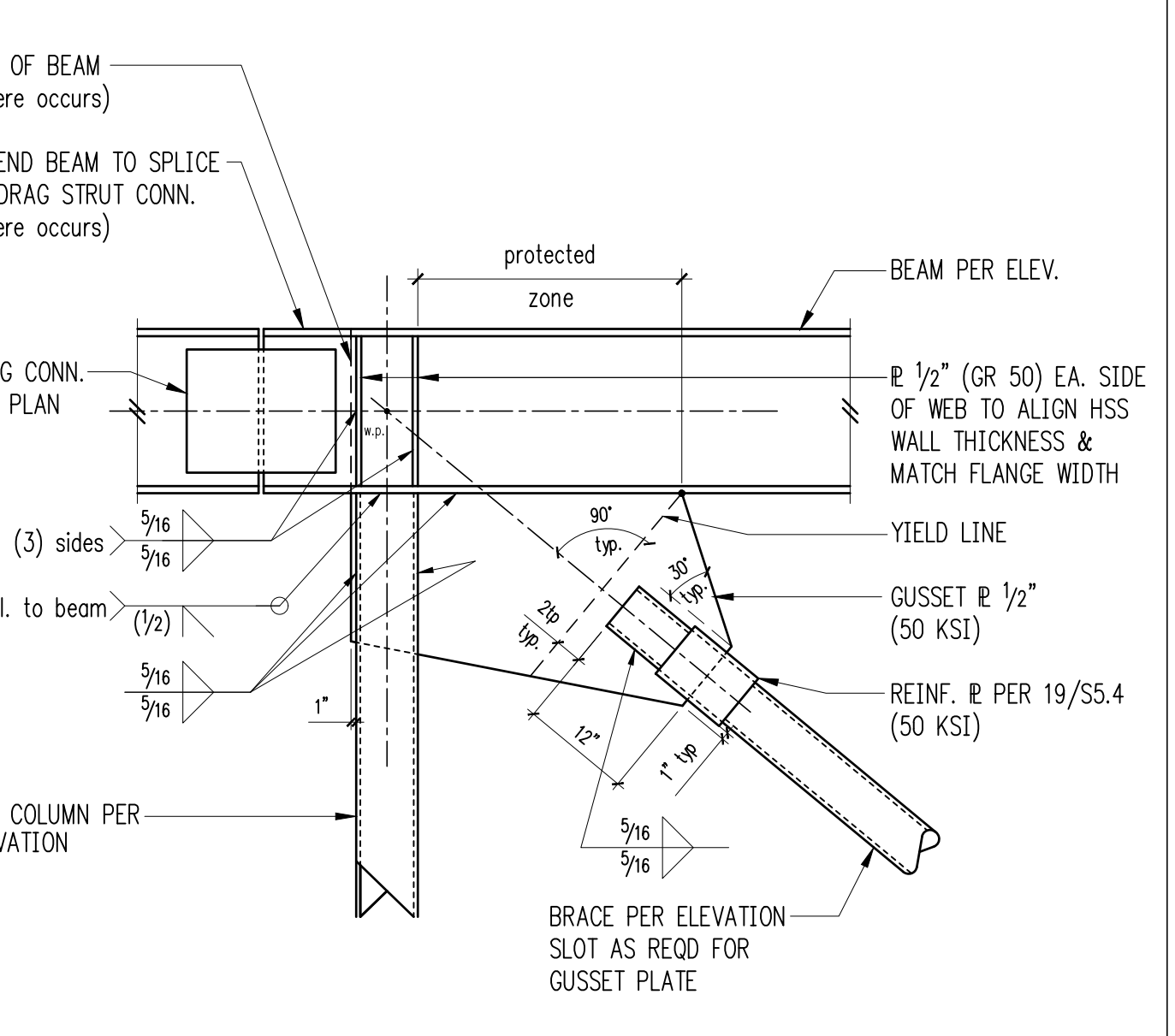
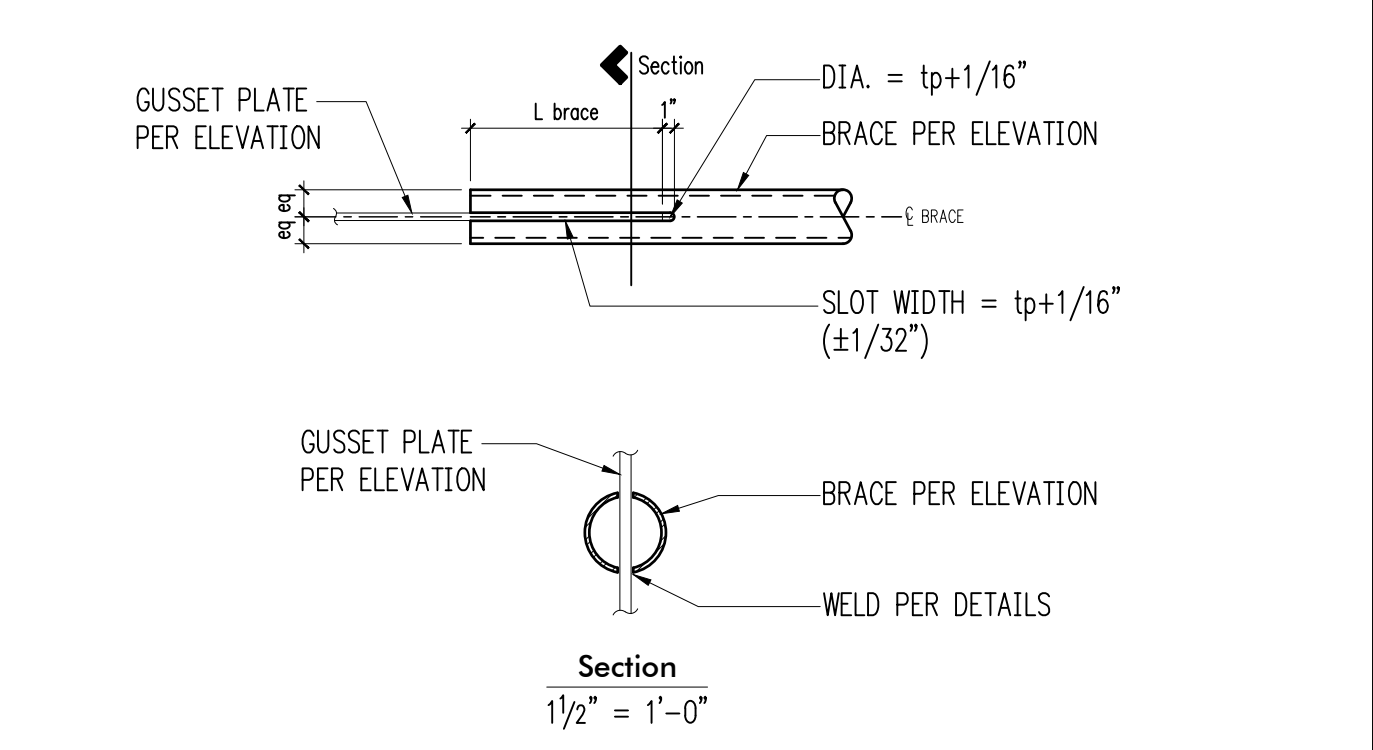
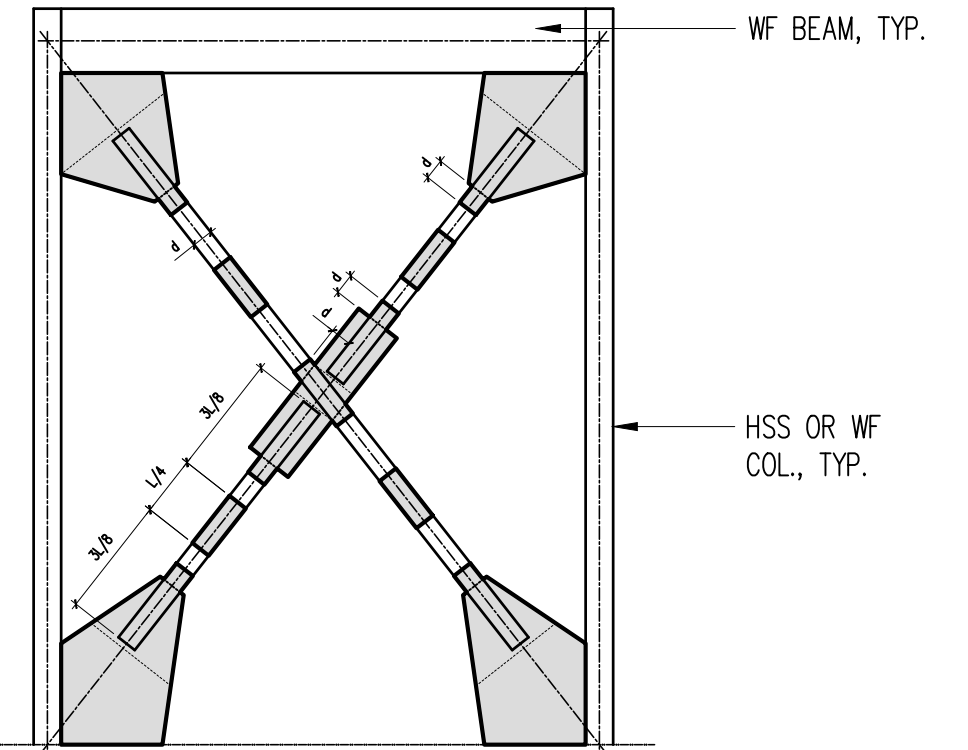
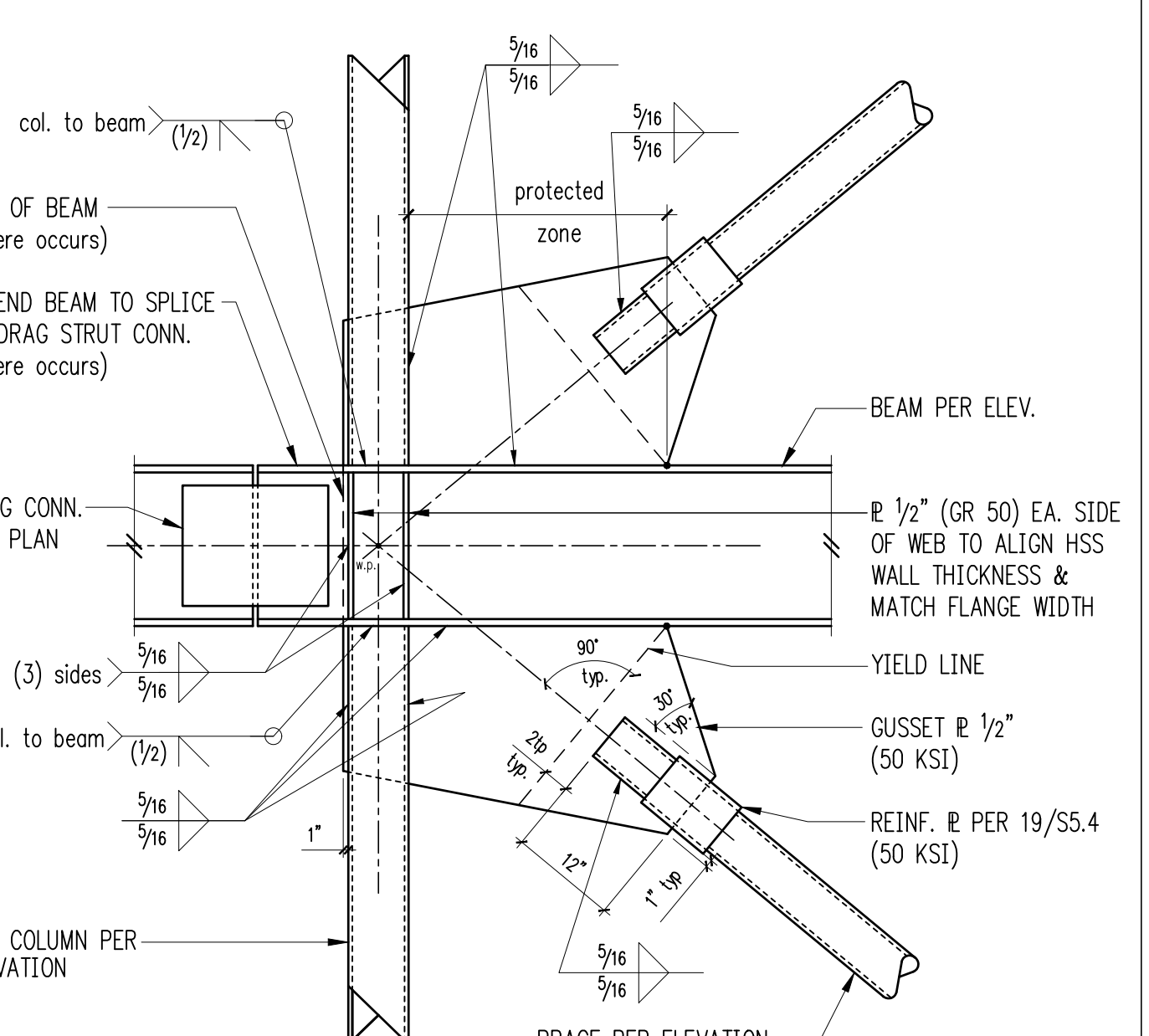
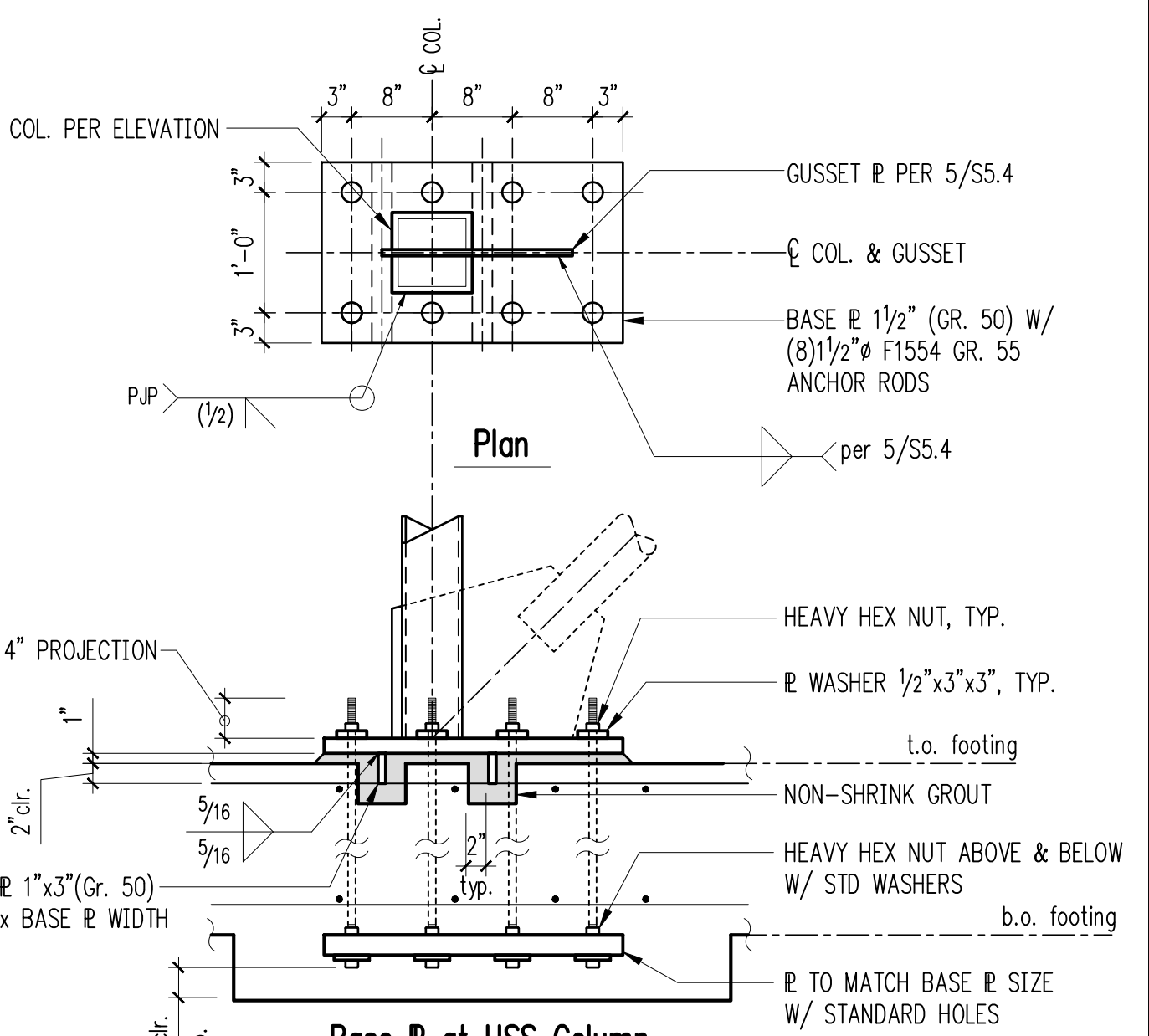
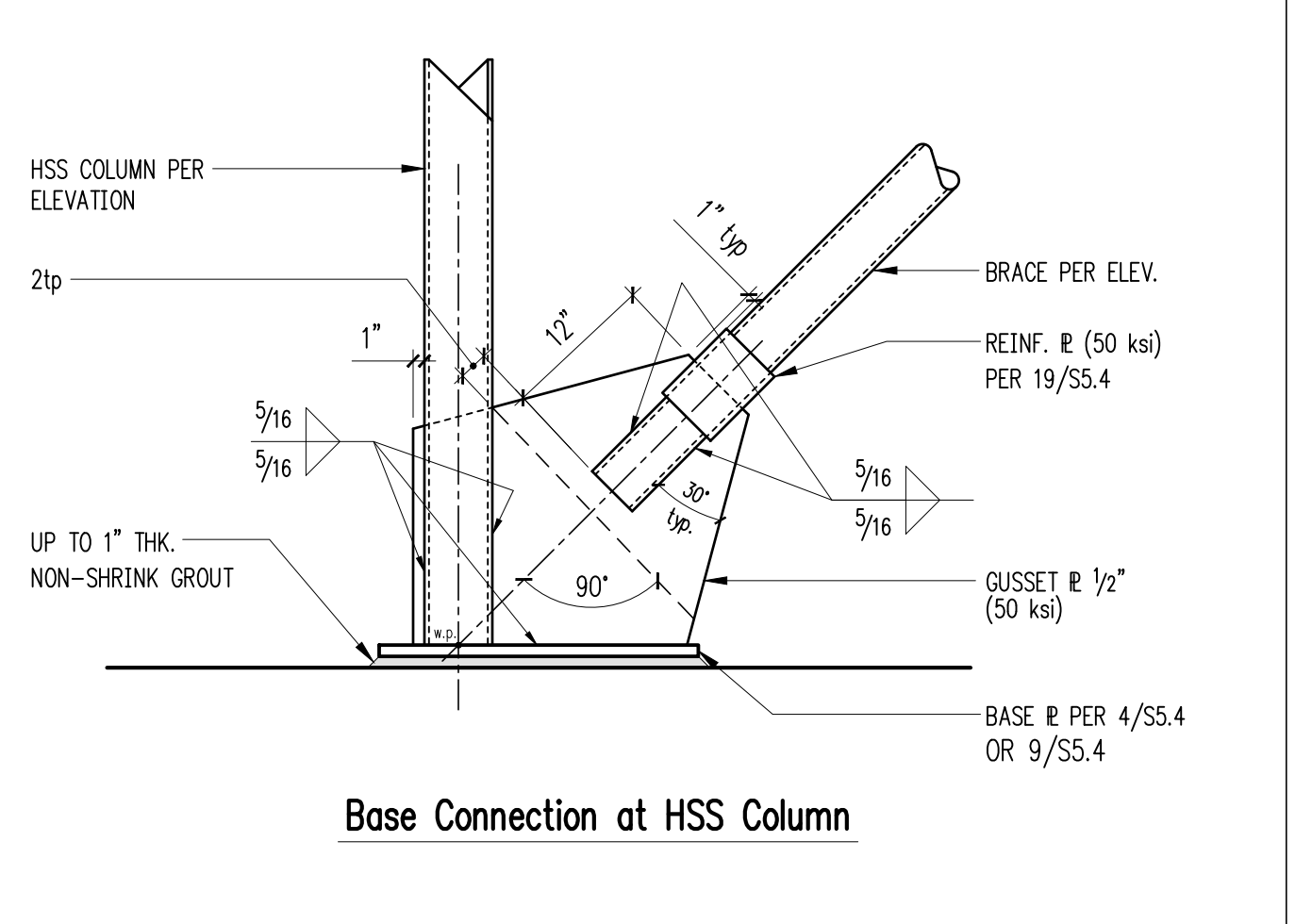
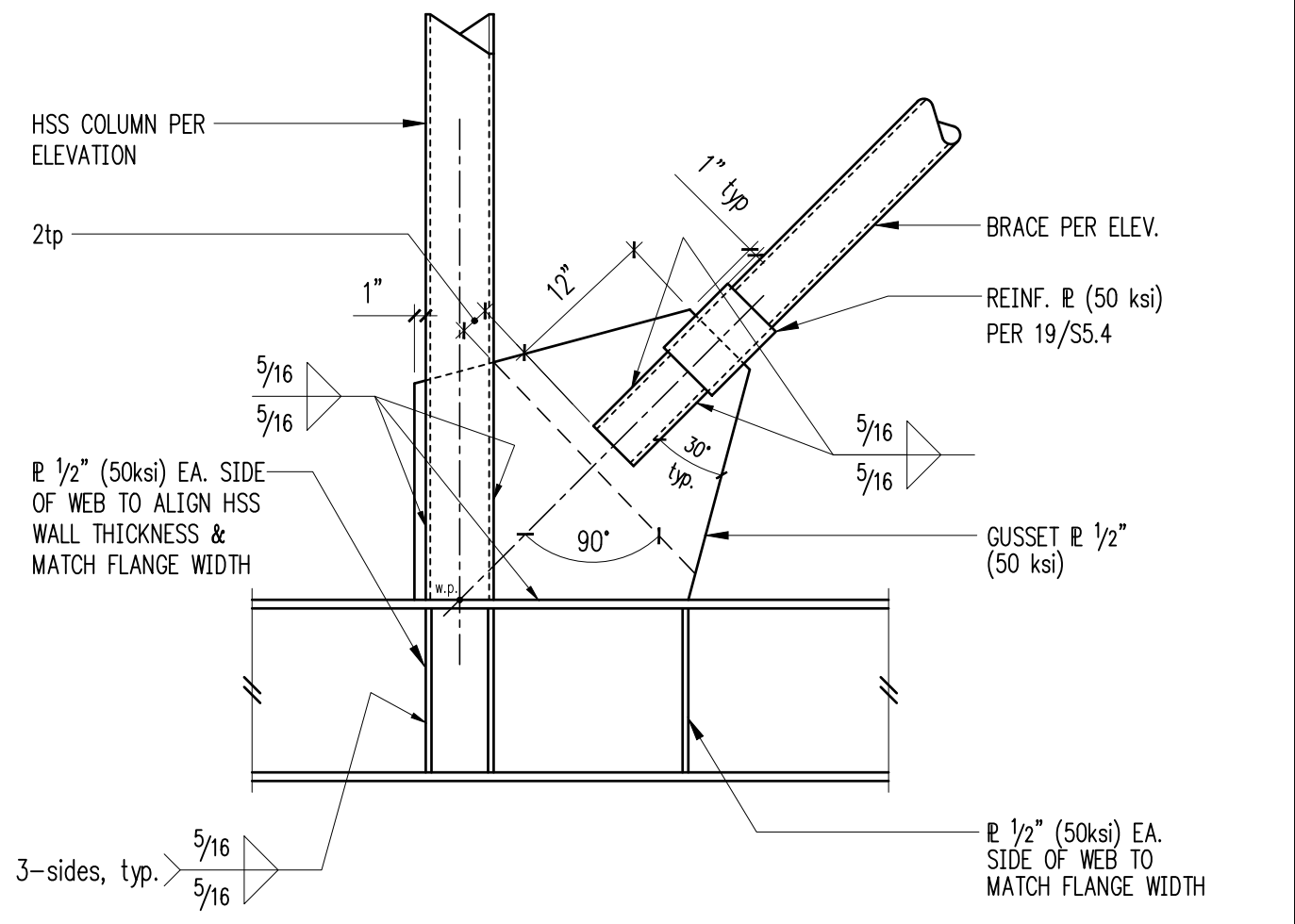
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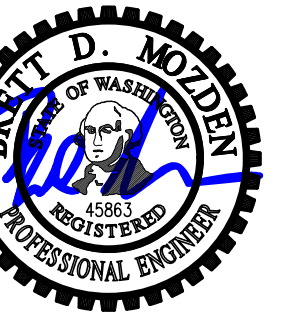
Typical Brace Slot Reinforcing 19

20

- Notes**
- PROTECTED ZONES SHALL APPLY TO ALL BRACED FRAMES.
 - SHADING INDICATES PROTECTED ZONES. WITHIN THE PROTECTED ZONES, THE FOLLOWING SHALL APPLY:
 - WELDED, BOLTED, SCREWED, OR SHOT-IN ATTACHMENTS FOR EDGE ANGLES, EXTERIOR FACADES, PARTITIONS, DUCT WORK, PIPING, AND OTHER CONSTRUCTION SHALL NOT BE PERMITTED.
 - DISCONTINUITIES CREATED BY FABRICATION OR ERECTION OPERATIONS SUCH AS TACK WELDS, ERECTION AIDS, AIR-ARC GOUGING, AND THERMAL CUTTING SHALL BE REPAIRED AS REQUIRED BY THE STRUCTURAL ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND SUBMITTING ALL SUCH CONDITIONS TO THE STRUCTURAL ENGINEER OF RECORD FOR DETERMINATION OF ADEQUATE REPAIR.

- Braced Frame General Notes**
- ALL PLATES SHALL BE A572, FY=50ksi, UNO
 - BRACED FRAME BEAM TO COLUMN CONNECTIONS PER 10/SS.4 AND 15/SS.4, UNO.
 - EACH GUSSET HAS TWO YIELD POINTS, ONE AT THE CONNECTION TO THE COLUMN & ONE AT THE CONNECTION TO THE BEAM. THE YIELD LINE PROJECTION POINT RESULTING IN A YIELD LINE FURTHEST FROM THE WORK POINT DETERMINES THE GUSSET GEOMETRY. YIELD LINES ARE PERPENDICULAR TO BRACE AXES.
 - GUSSET PLATES SHALL BE DETAILED AND DIMENSIONED TO PROVIDE THE REQUIRED BRACE TO GUSSET PLATE WELD LENGTH, GUSSET PLATE TO BEAM WELD LENGTH, AND GUSSET PLATE TO COLUMN WELD LENGTH.
 - SLOTS IN BRACE MEMBERS SHALL HAVE A WIDTH EQUAL TO THE GUSSET PLATE THICKNESS PLUS A MAXIMUM OF 1/8" TOLERANCE. PROVIDE SLOT PATCH AND SLOT REINFORCING AT ALL BRACE SLOTS PER 19/SS.4.
 - BRACED FRAME SHOP DRAWINGS SUBMITTED TO THE ENGINEER FOR REVIEW SHALL CLEARLY INDICATE THE BRACE ANGLE, GUSSET PLATE DIMENSIONS, BRACE TO GUSSET PLATE WELD LENGTH, VERTICAL GUSSET PLATE LENGTH, HORIZONTAL GUSSET PLATE LENGTH, AND YIELD LINES.
 - WHERE ERECTION BOLTS ARE USED, A SINGLE BOLT SHALL BE PROVIDED AT EACH END OF THE BRACE. ERECTION BOLTS SHALL BE LOCATED WITHIN 4" OF BRACE END.
 - PROTECTED ZONES SHALL APPLY TO ALL BRACED FRAMES. SEE 13/SS.4.





DESIGN: HAA, SRW
 DRAWN: NHD
 CHECKED: SRW
 APPROVED: BDM

REVISIONS:

JURISDICTIONAL APPROVAL STAMP:

PROJECT TITLE:
8480 Residence
 8480 85th Ave SE
 Mercer Island, WA 98040

FOR CALLOUTS
 IN COMMON
 REFER 20/S5.5

ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH: 206.239.0850
 brandtdesigninc.com

ISSUE:

PERMIT

SHEET TITLE:

Steel Details

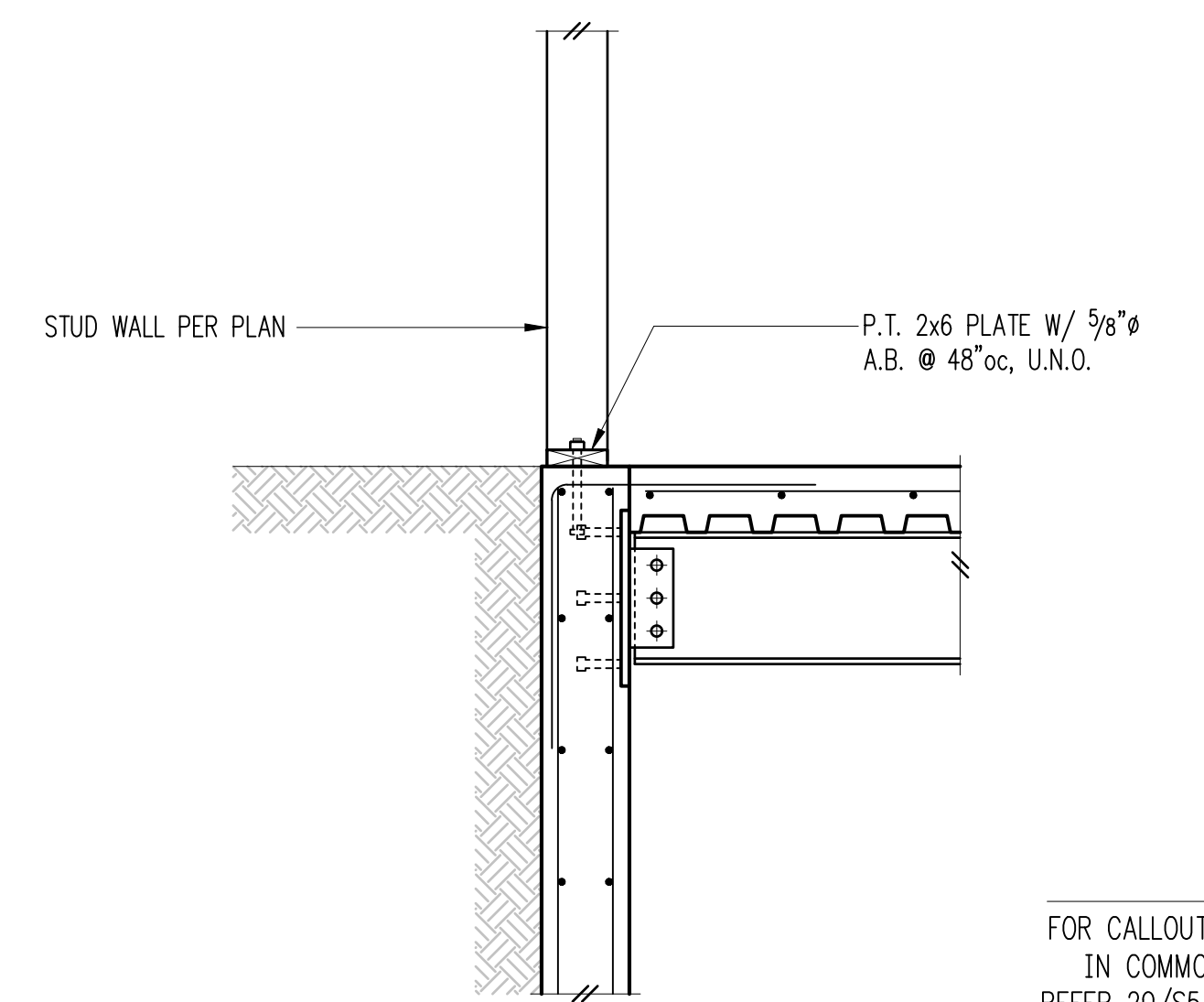
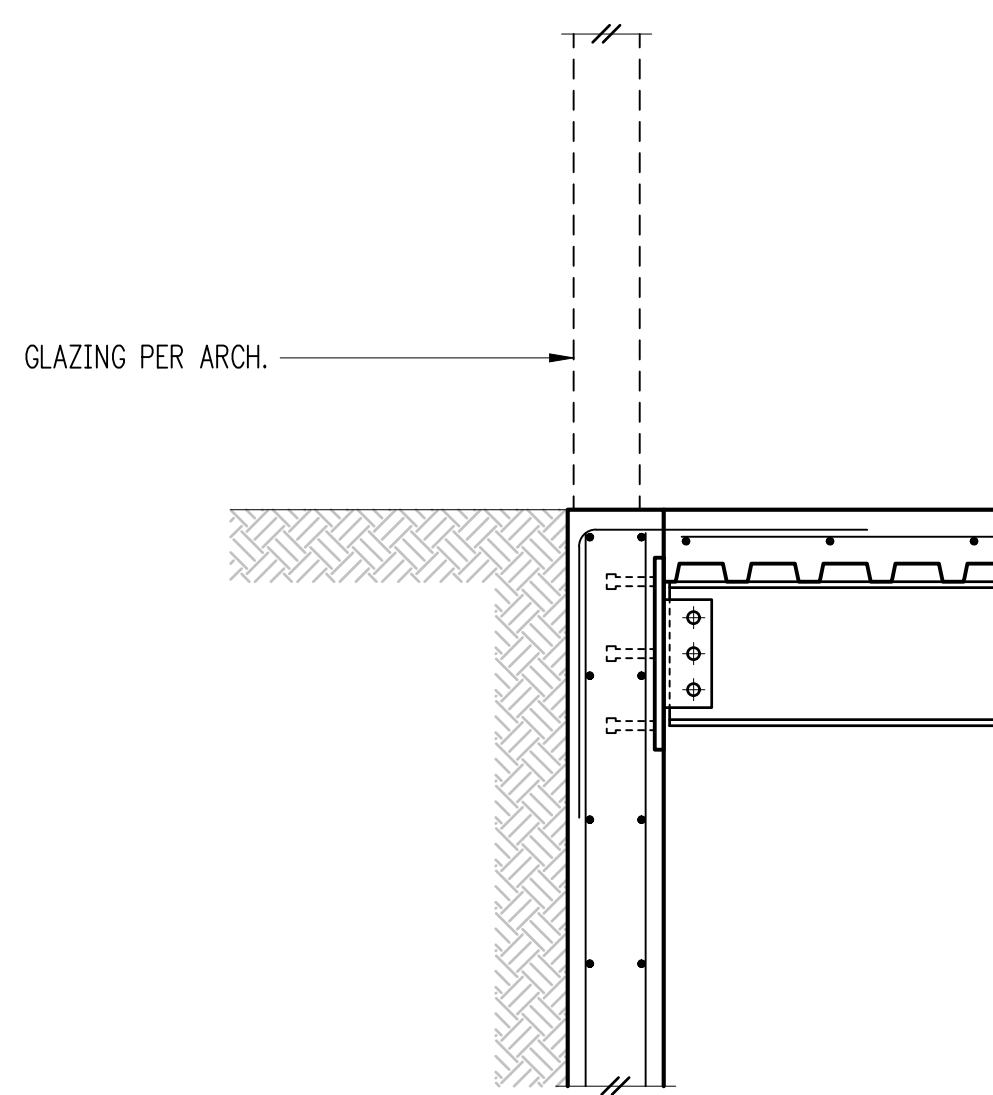
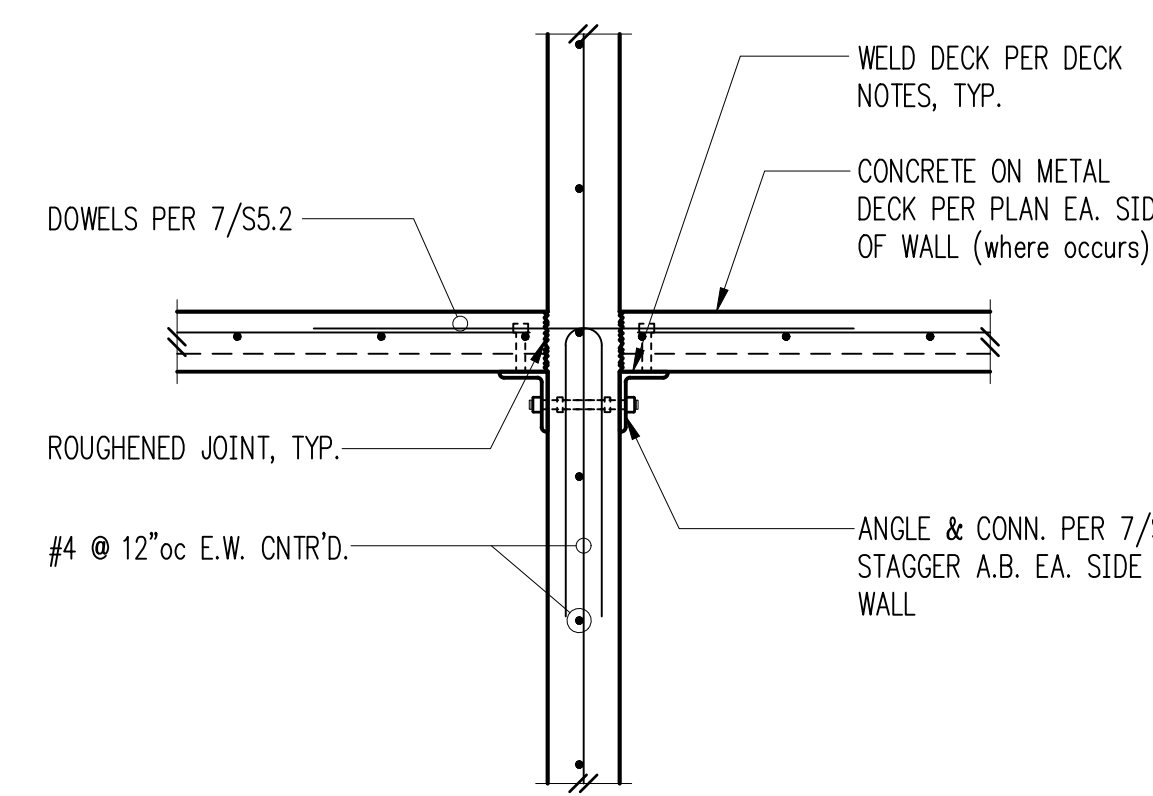
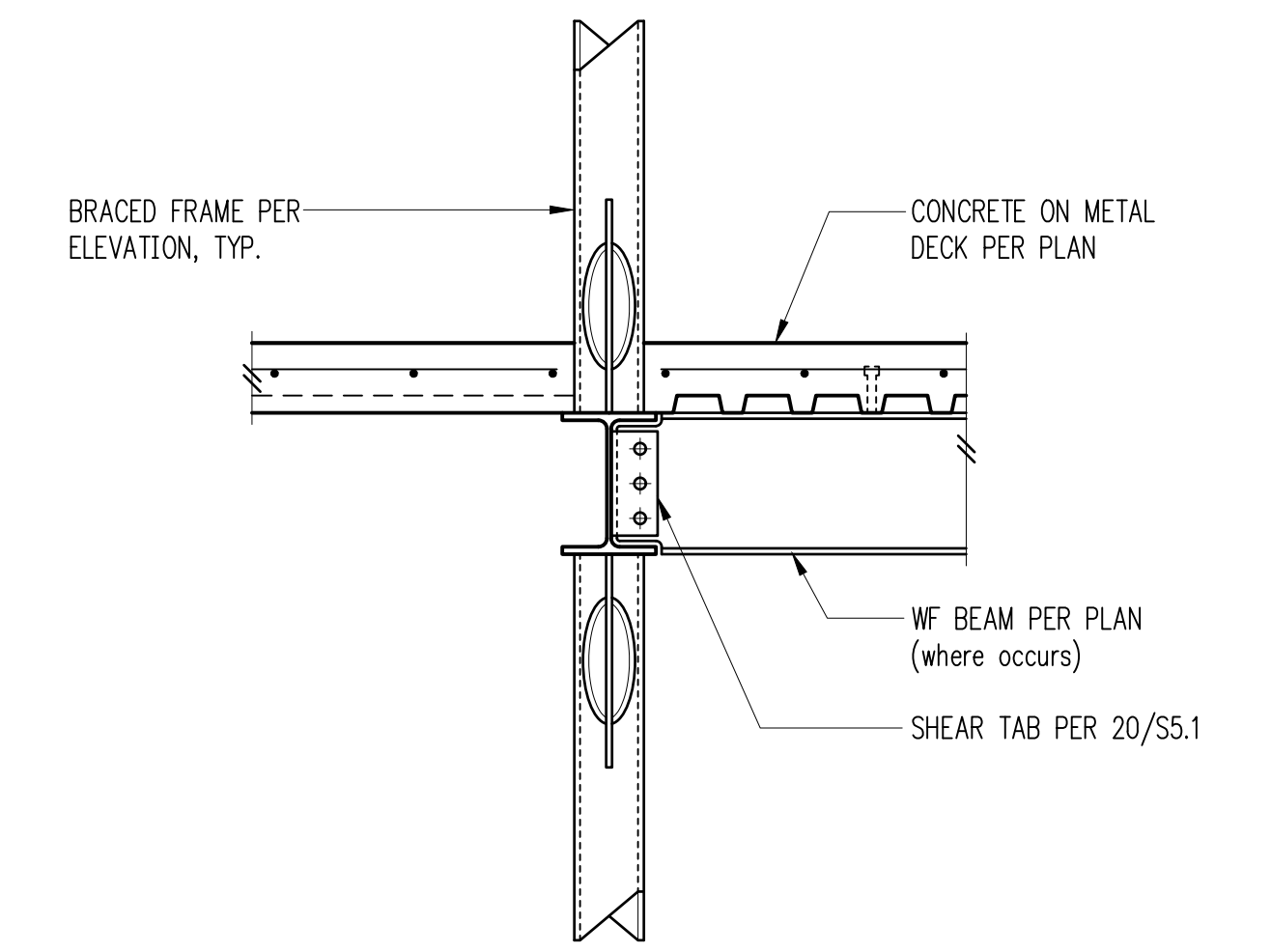
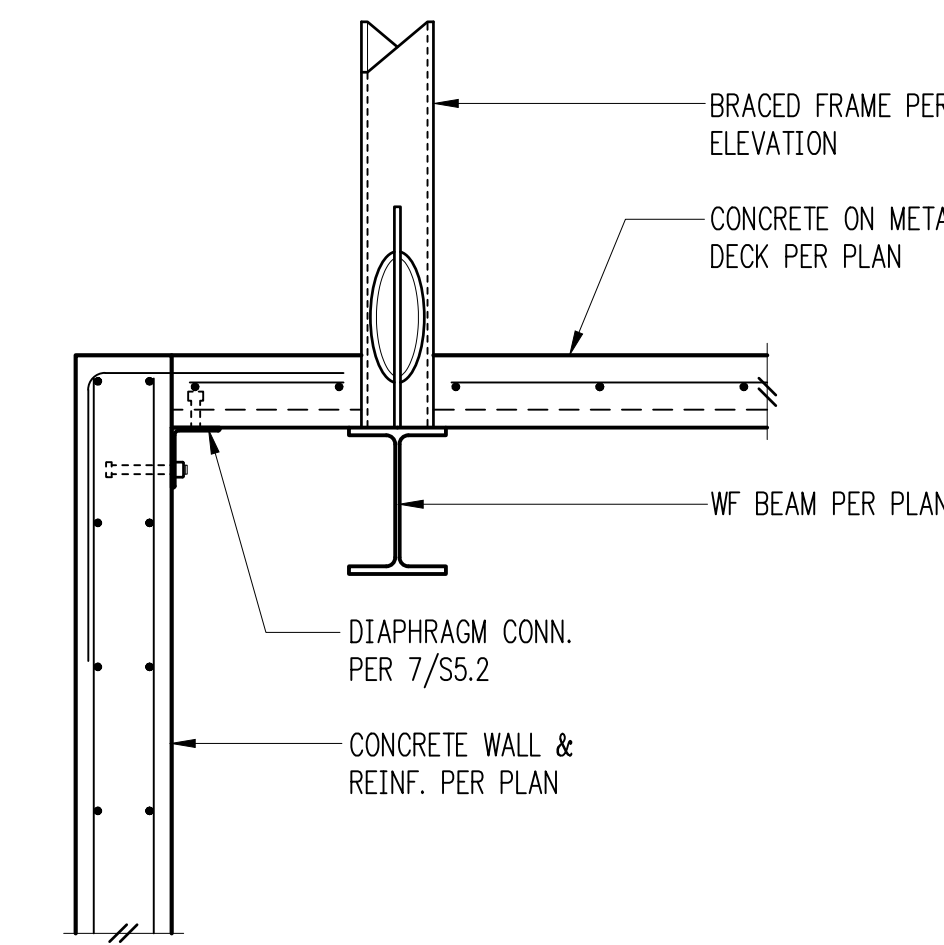
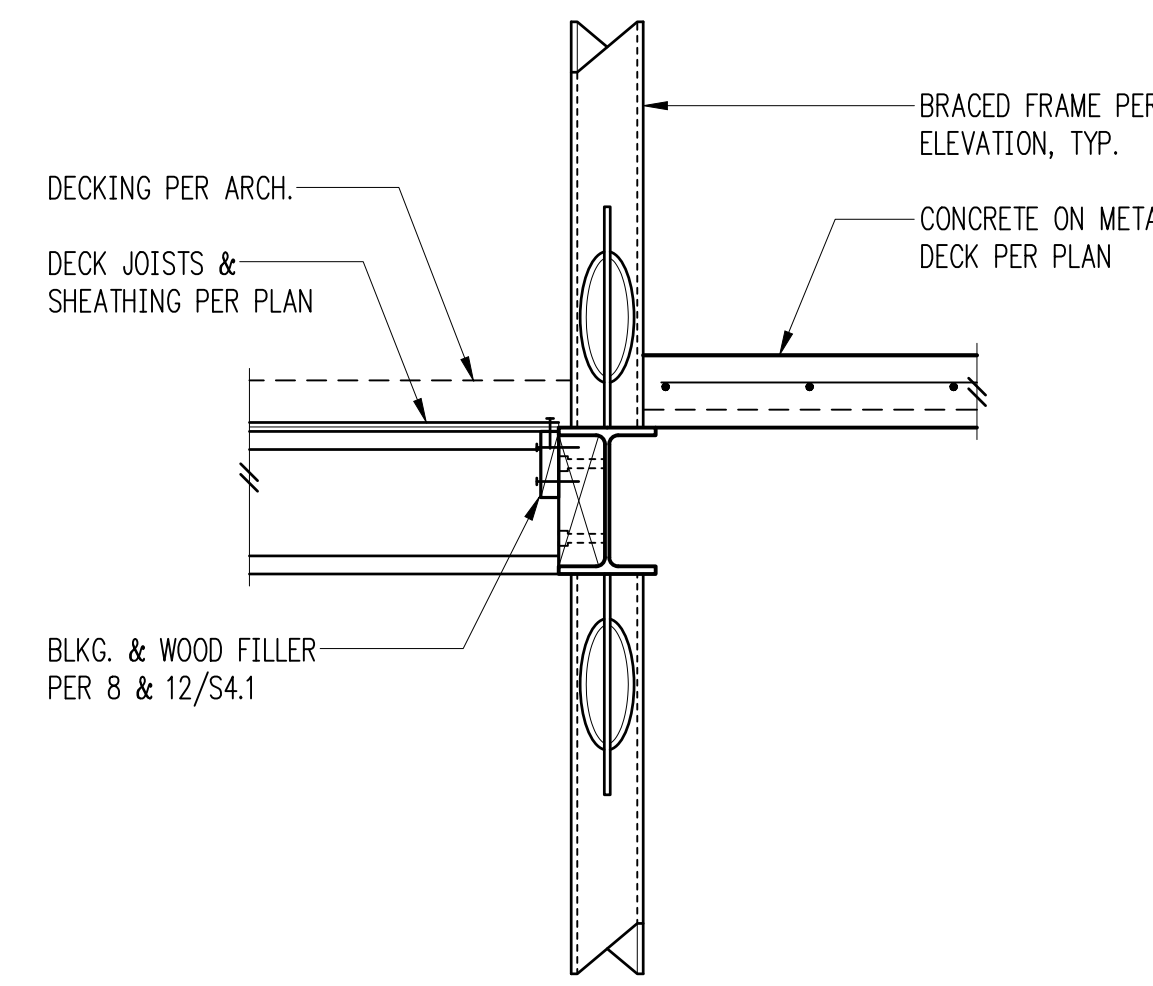
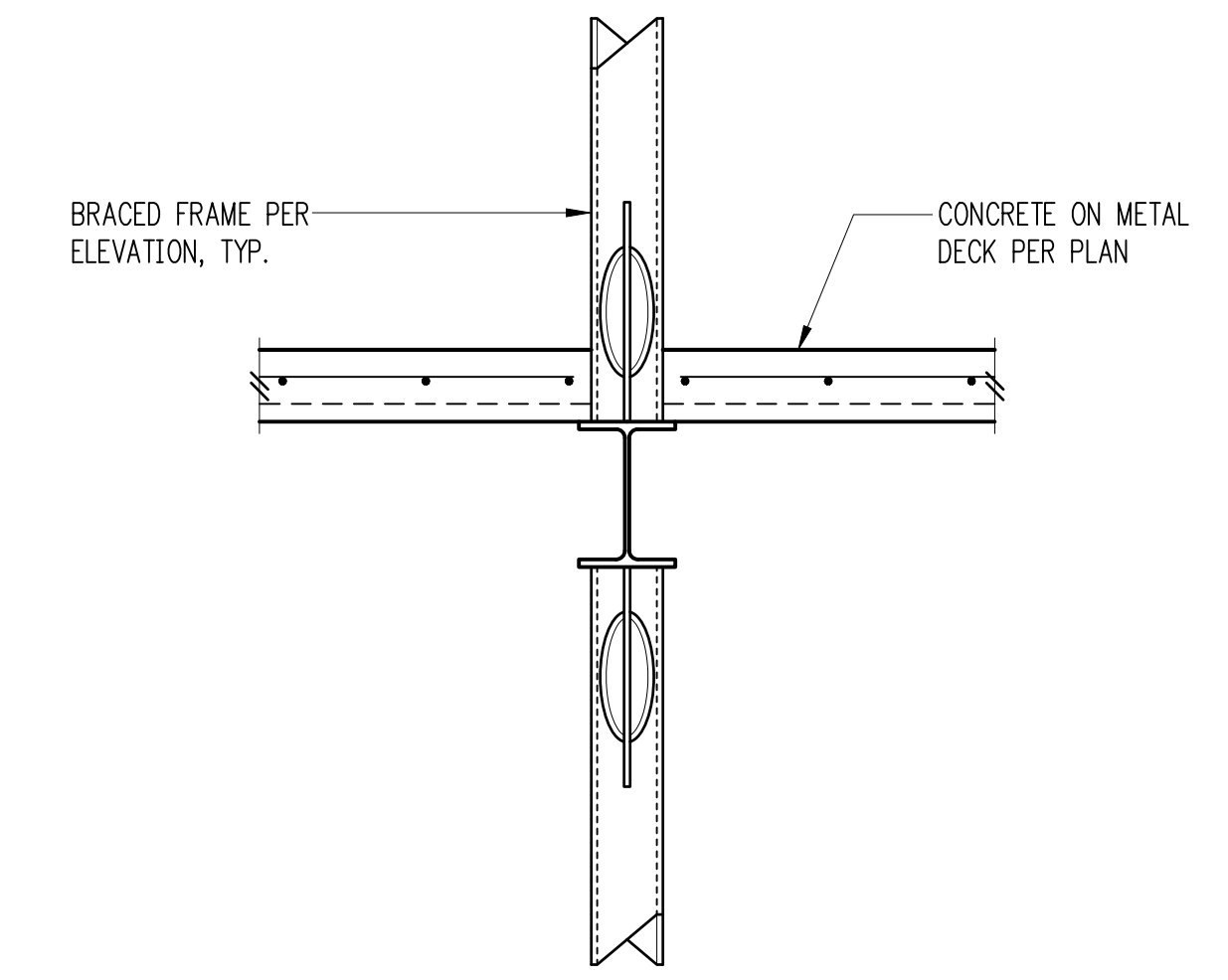
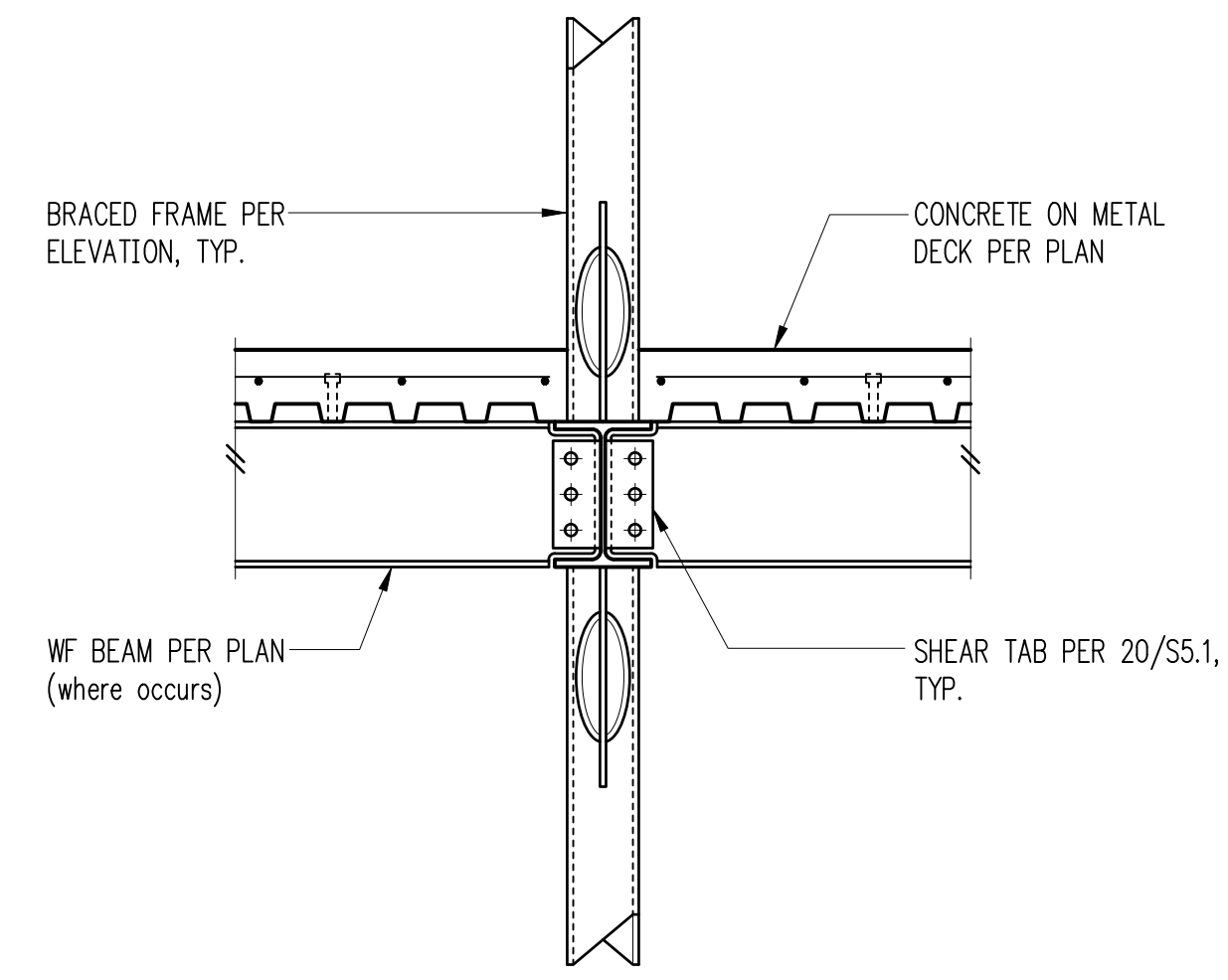
SCALE: 3/4" = 1'-0" U.N.O.

DATE: March 11, 2022

PROJECT NO: 01519-2021-09

SHEET NO:

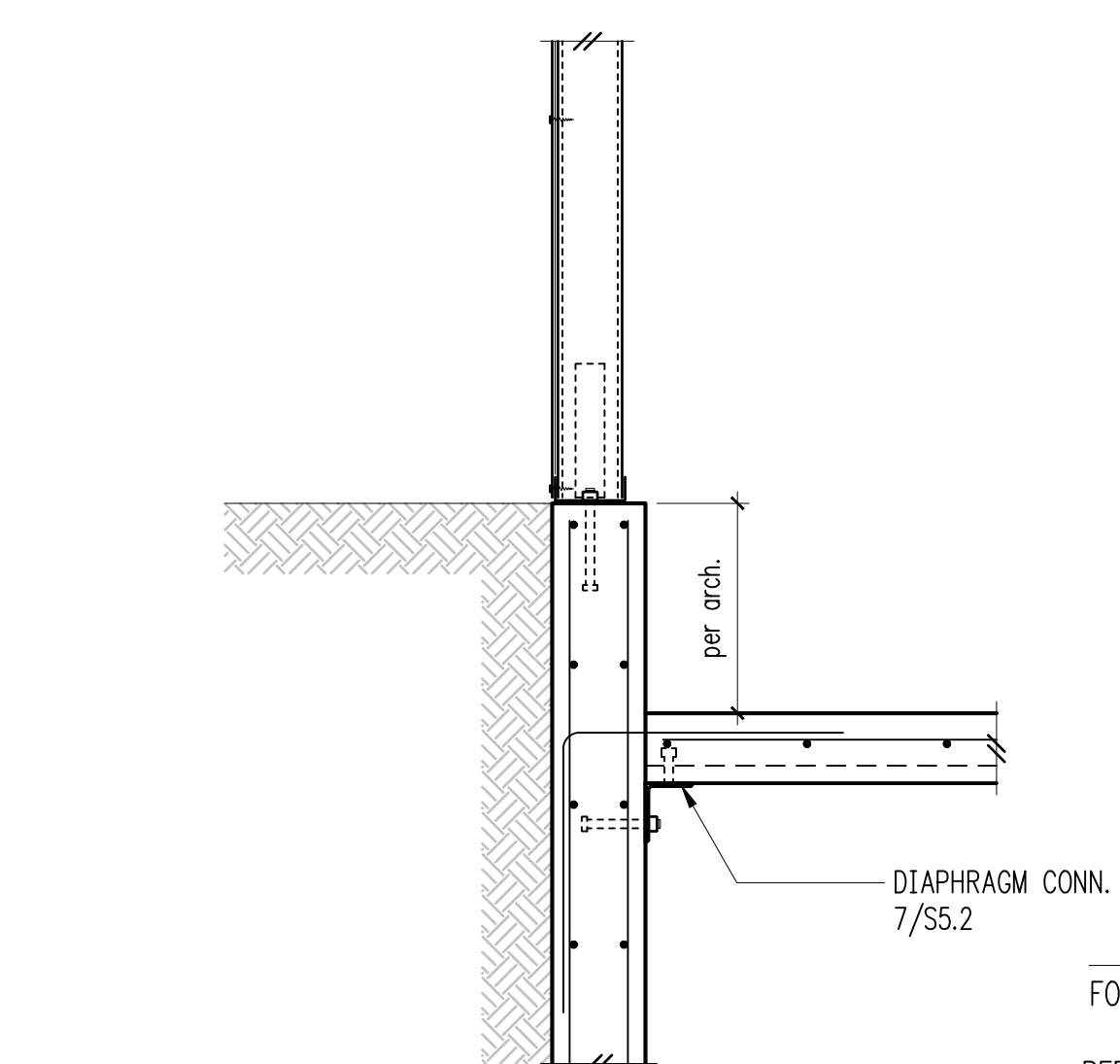
S5.5



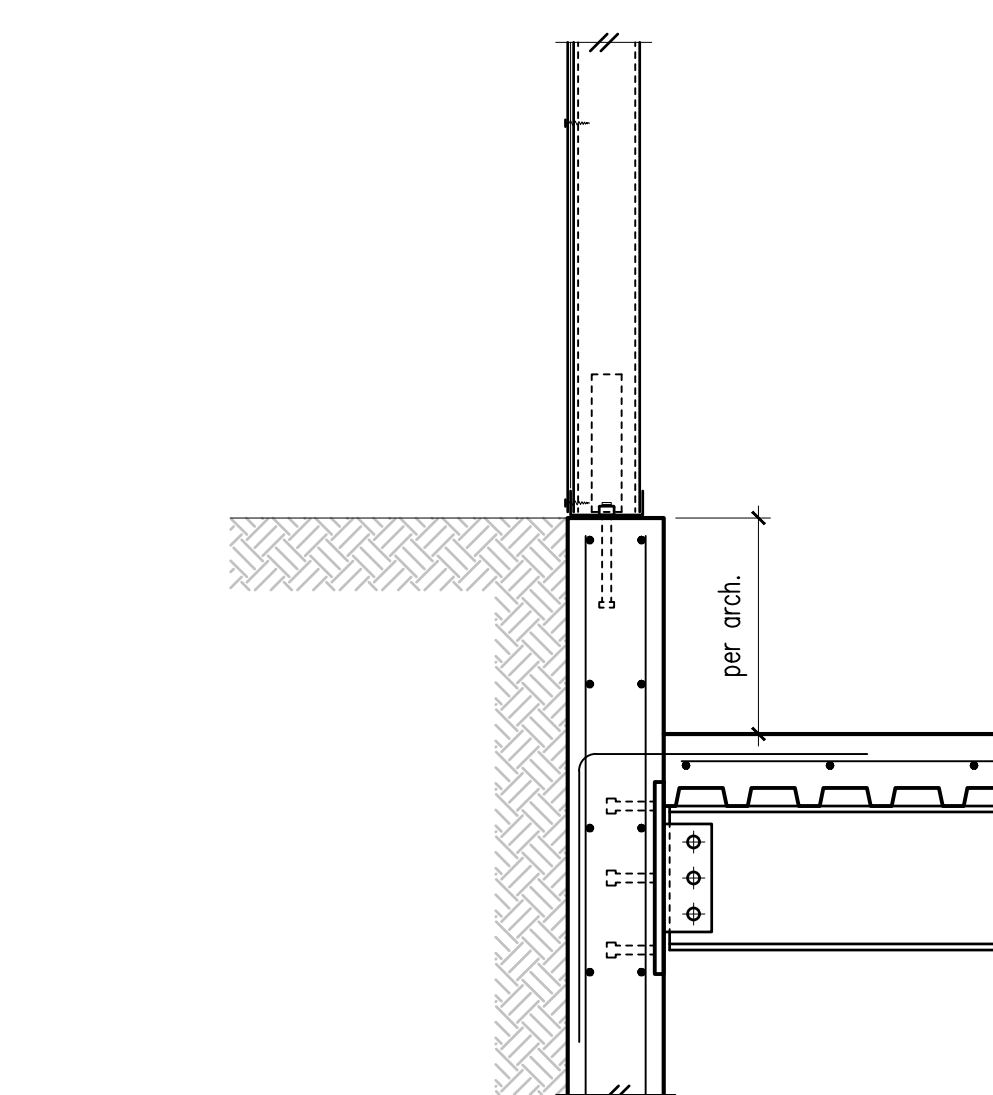
NOTES:
 1. DECK LEDGER OCCURS AT ALL INTERSECTIONS OF FLOOR DECK AND CONCRETE WALLS, U.N.O.
 2. COORDINATE ANCHOR BOLT LOCATIONS WITH WALL REINFORCEMENT LAYOUT.

FOR CALLOUTS
 IN COMMON
 REFER 20/S5.5

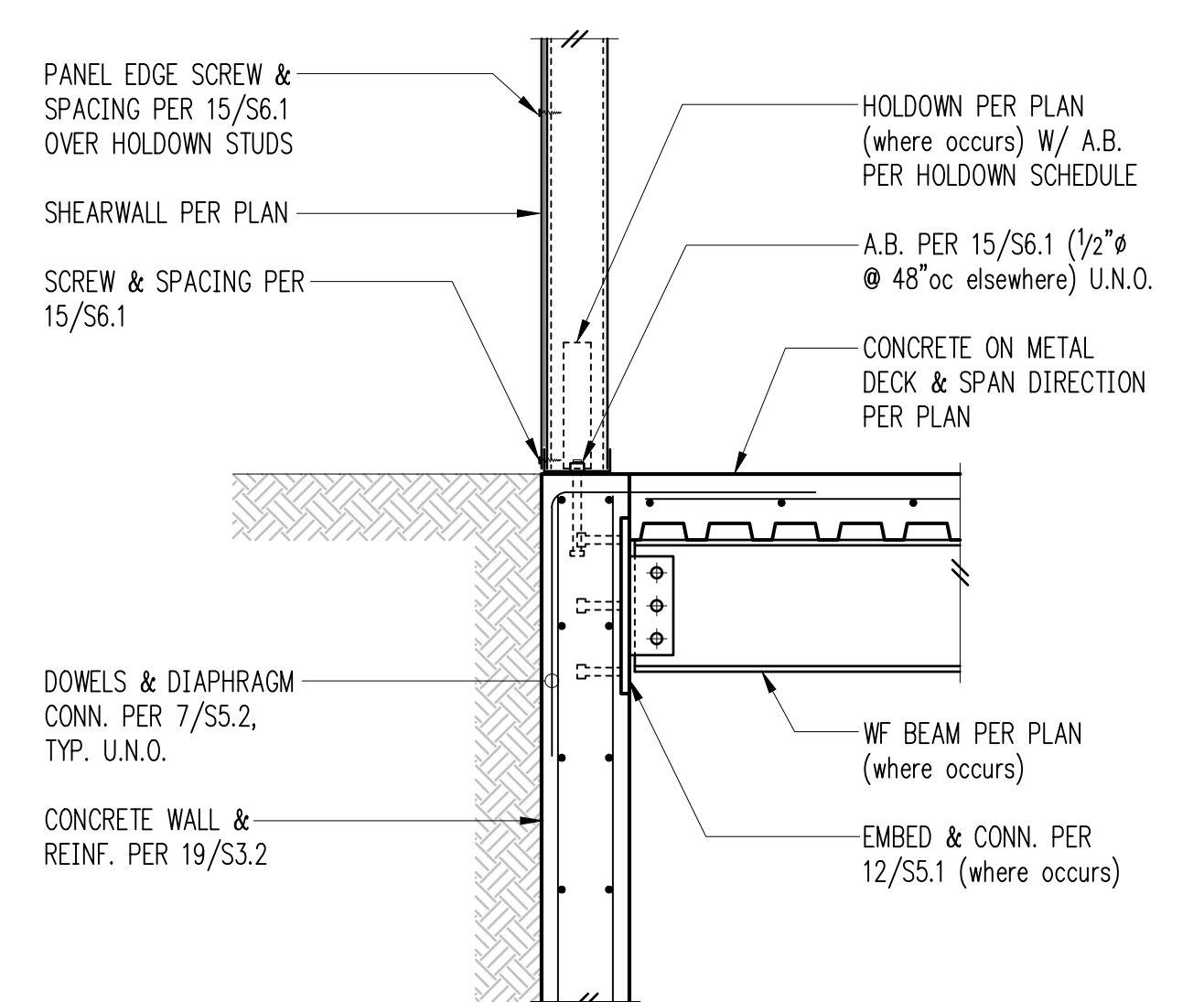
FOR CALLOUTS
 IN COMMON
 REFER 20/S5.5



FOR CALLOUTS
 IN COMMON
 REFER 20/S5.5



FOR CALLOUTS
 IN COMMON
 REFER 20/S5.5



FOR CALLOUTS
 IN COMMON
 REFER 20/S5.5

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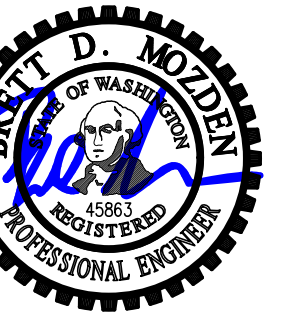
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DESIGN: HAA, SRW
 DRAWN: NHD
 CHECKED: SRW
 APPROVED: BDM

REVISIONS:

JURISDICTIONAL APPROVAL STAMP:

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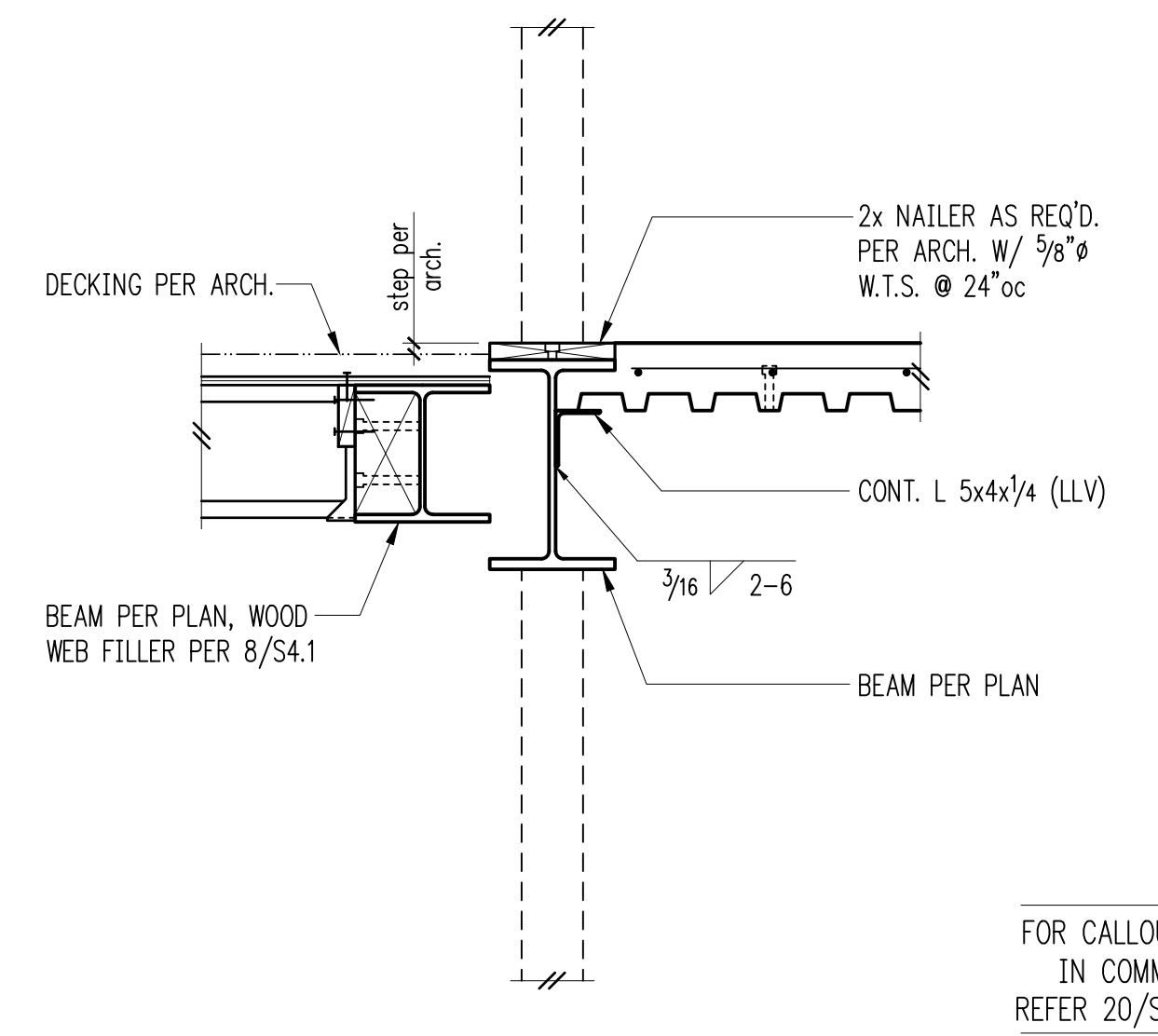
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FOR CALLOUTS
 IN COMMON
 REFER 20/S5.6

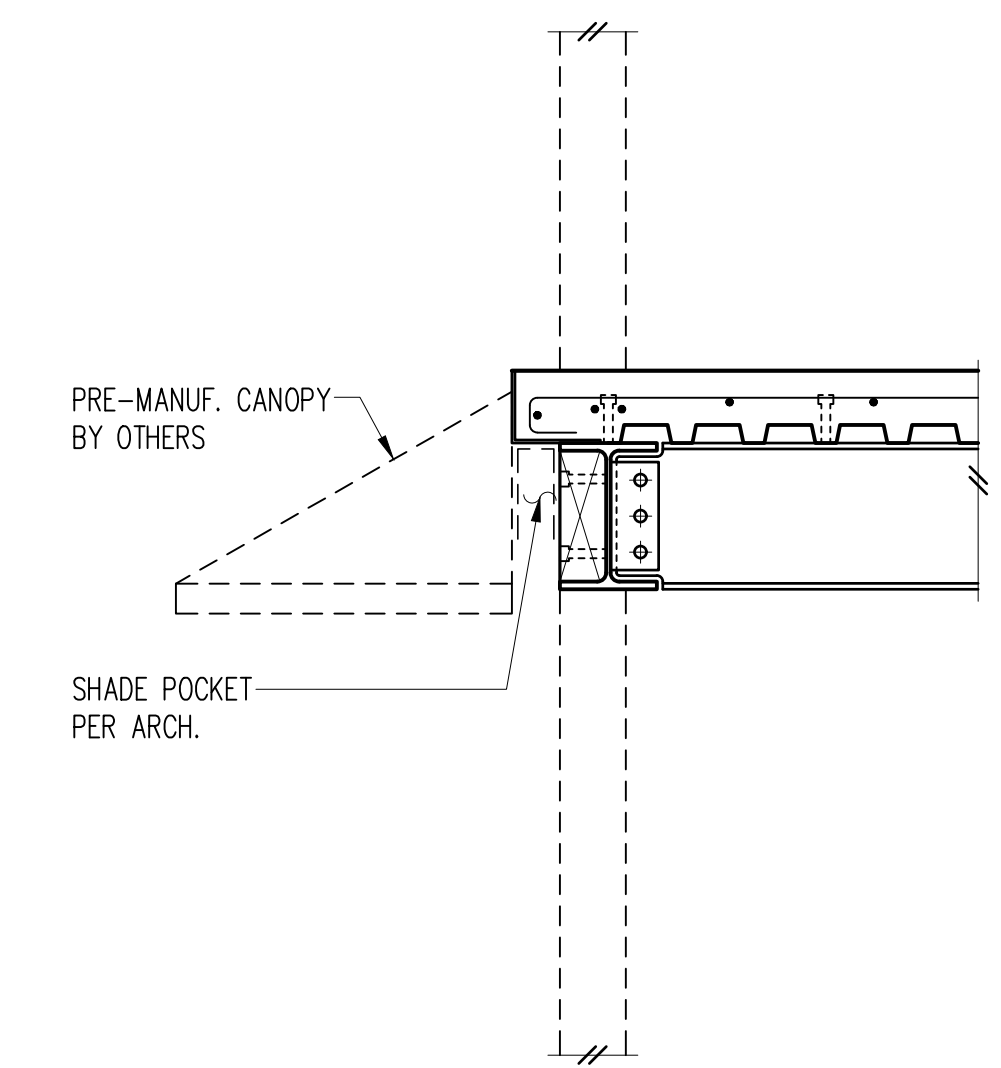
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FOR CALLOUTS
 IN COMMON
 REFER 20/S5.6

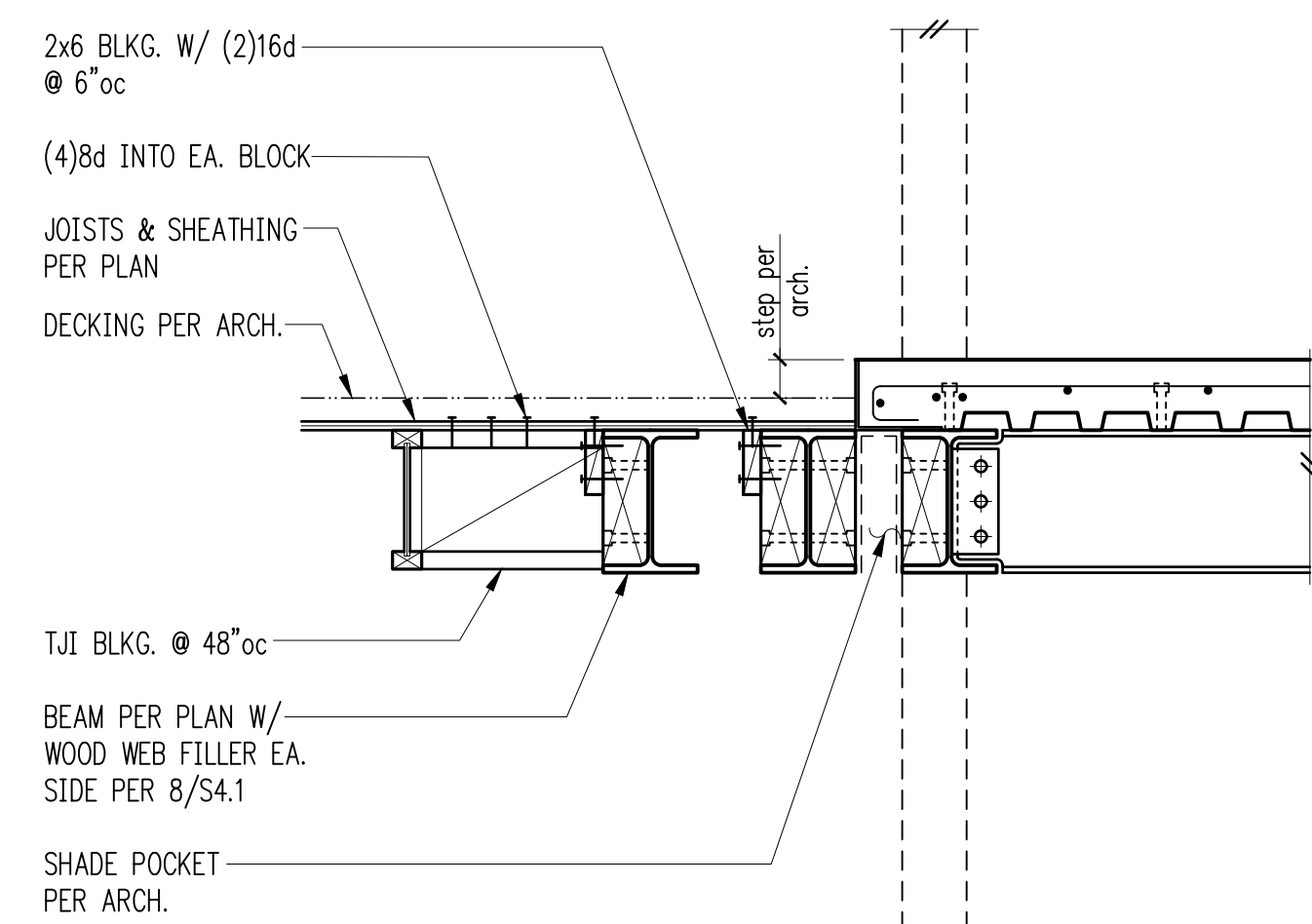
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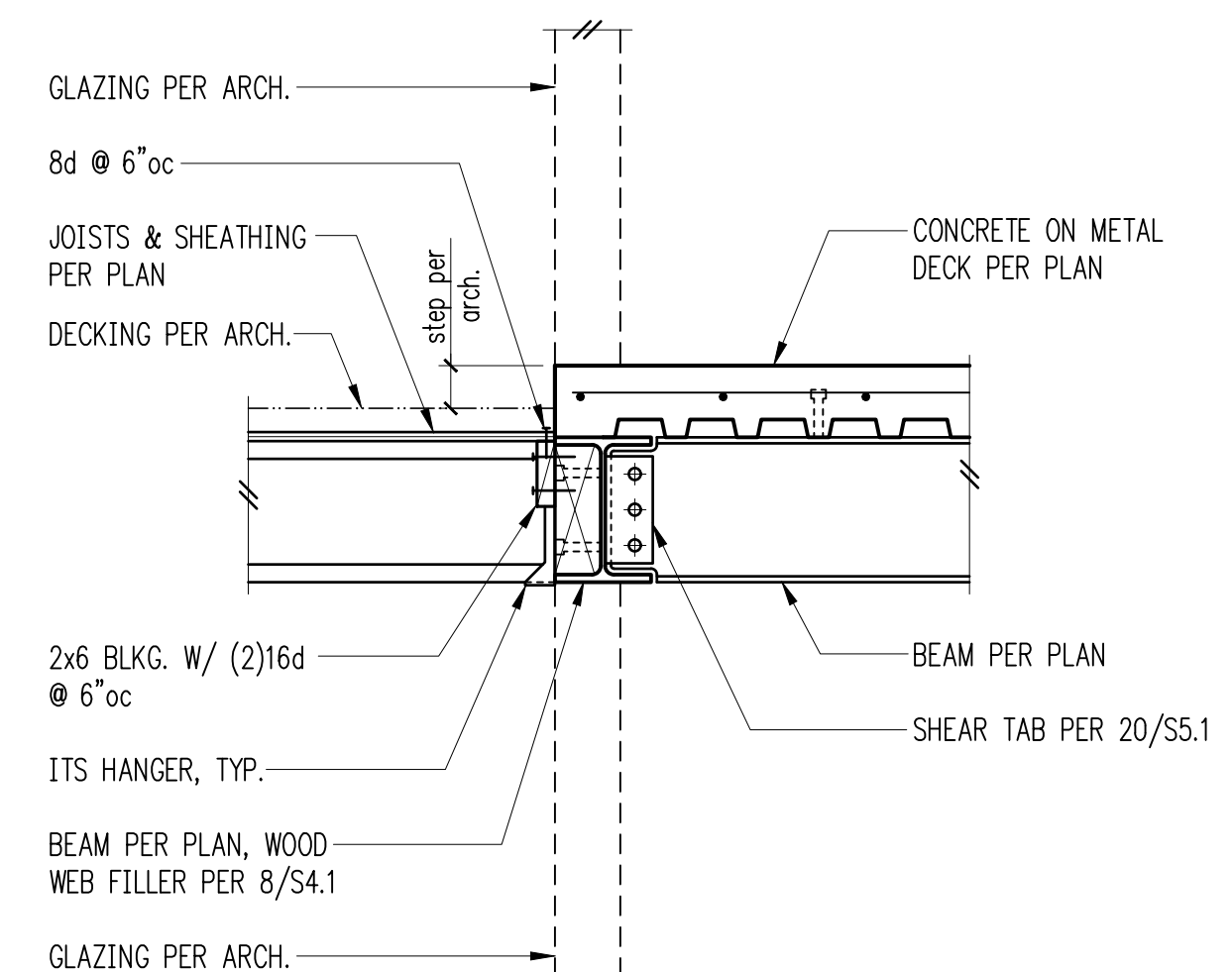
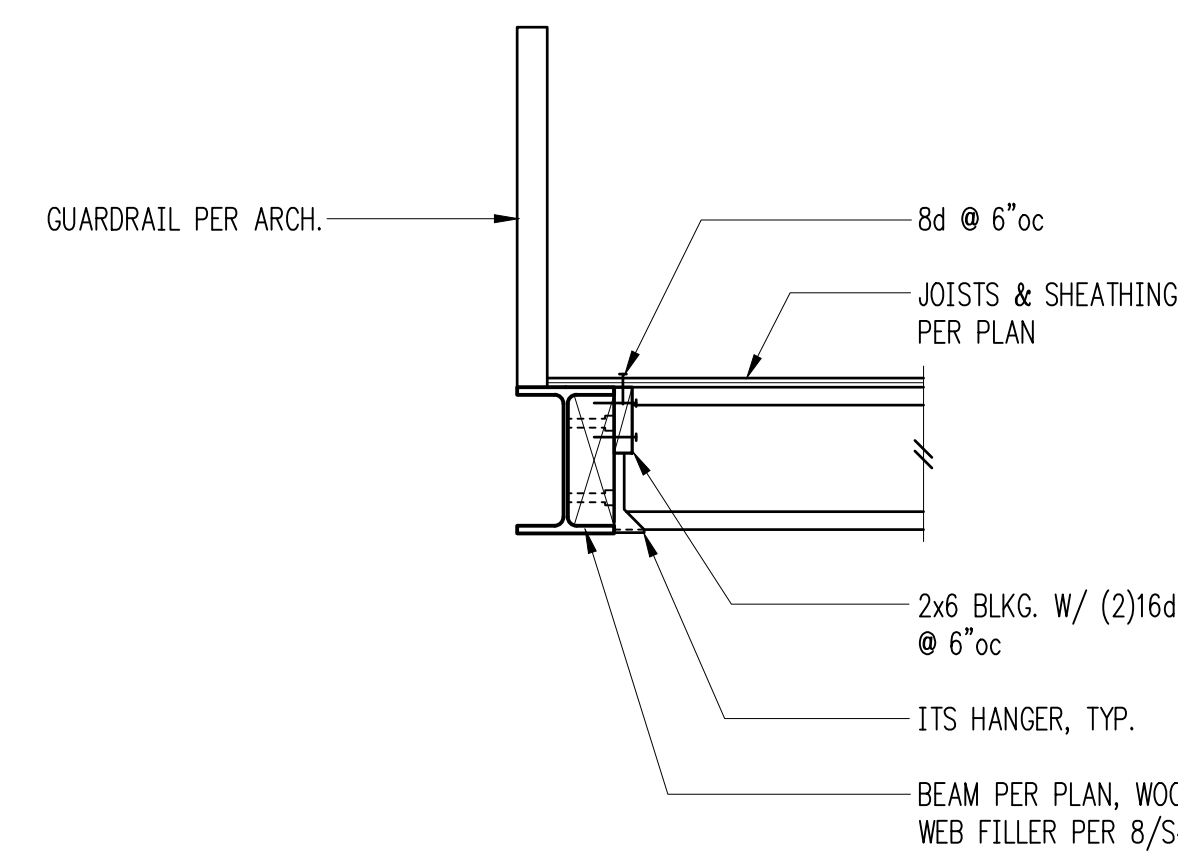
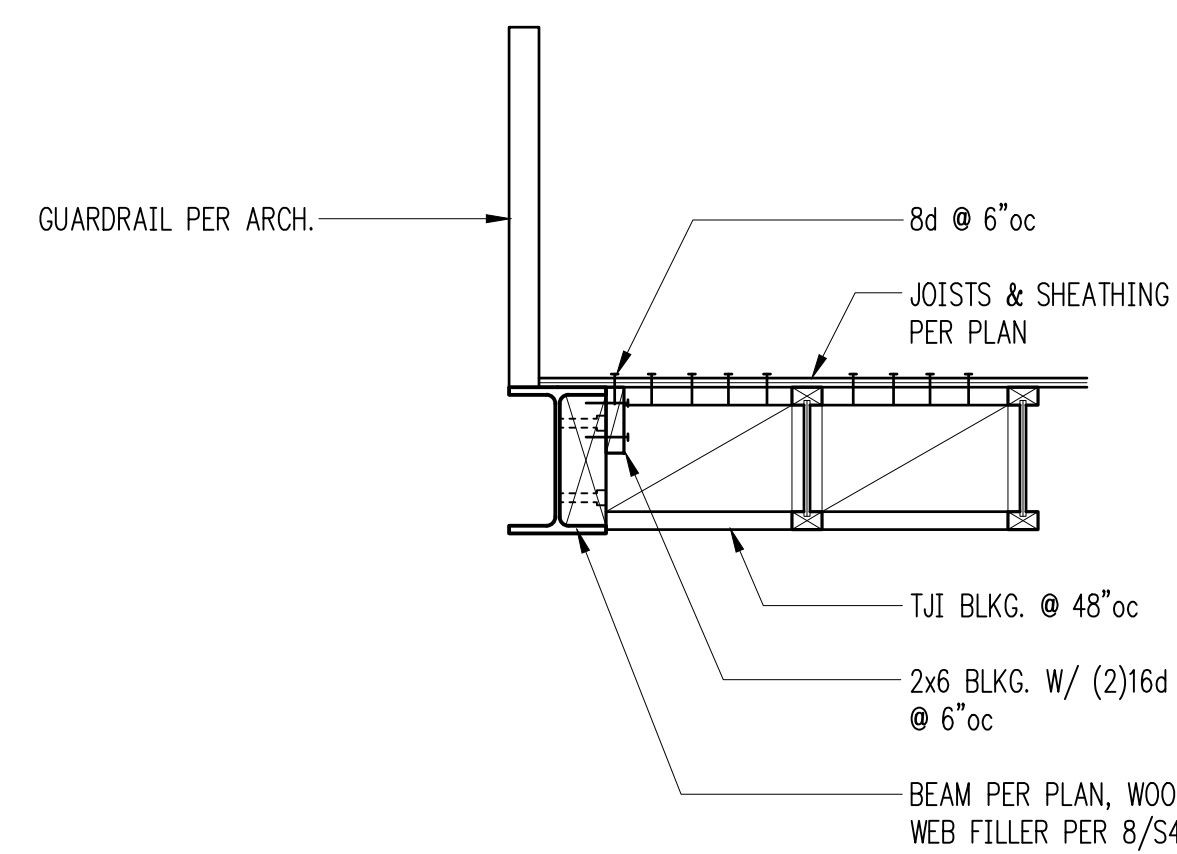
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FOR CALLOUTS
 IN COMMON
 REFER 20/S5.6



PROJECT TITLE:
8480 Residence
 8480 85th Ave SE
 Mercer Island, WA 98040

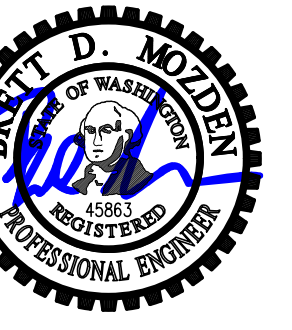
ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH: 206.239.0850
 brandtdesigninc.com

ISSUE:
PERMIT

SHEET TITLE:
Steel Details

SCALE: 3/4" = 1'-0" U.N.O.
 DATE: March 11, 2022
 PROJECT NO: 01519-2021-09
 SHEET NO:

S5.6



DESIGN: HAA, SRW
 DRAWN: NHD
 CHECKED: SRW
 APPROVED: BDM

REVISIONS:

JURISDICTIONAL APPROVAL STAMP:

PROJECT TITLE:
8480 Residence
 8480 85th Ave SE
 Mercer Island, WA 98040

ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH: 206.239.0850
 brandtdesigninc.com

ISSUE:

PERMIT

SHEET TITLE:

Typical Light Gauge Details

SCALE:

3/4" = 1'-0" U.N.O.

DATE:

March 11, 2022

PROJECT NO.:

01519-2021-09

SHEET NO.:

S6.1

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2

Typical Built-up Stud Column or Beam

3

Typical Box Beam Details

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Typical Joist To Beam Connection

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Top of Opening without Header

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Plywood Sheathed Diaphragm Connection

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Typical HSS Header Detail

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SHEARWALL SCHEDULE

SW TYPE	SHEATHING	THICKNESS OF STUDS & BLOCKING (mils)	THICKNESS OF TOP & BOTTOM TRACK (mils)	PANEL EDGE FASTENER SIZE AND SPACING	TOP/BOTTOM TRACK CONNECTION	
					AT CONC. OR STEEL BOLT AND SPACING	AT LIGHT GAGE FRAMING SCREW AND SPACING
SW1	19/32" PLYWOOD	43	54	#8 @ 6"oc	1/2" @ A.B. @ 42"oc	#8 @ 8"oc
SW2	19/32" PLYWOOD	43	54	#8 @ 4"oc	1/2" @ A.B. @ 36"oc	#8 @ 4"oc
SW3	19/32" PLYWOOD	43	54	#8 @ 3"oc	1/2" @ A.B. @ 30"oc	#8 @ 4"oc
SW4	19/32" PLYWOOD	43	54	#8 @ 2"oc	1/2" @ A.B. @ 18"oc	#8 @ 3"oc

- NOTES:
- REFER TO GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS FOR STUD FRAMING REQUIREMENTS.
 - TRACKS SHALL HAVE A MINIMUM FLANGE WIDTH OF 2".
 - TRACKS SHALL HAVE A MINIMUM FLANGE WIDTH OF 1-1/2".
 - WOOD STRUCTURAL PANELS SHALL BE ATTACHED TO STEEL FRAMING WITH #8 SELF-TAPPING SCREWS WITH MINIMUM HEAD DIAMETER OF 0.292" IN ACCORDANCE WITH THE SCHEDULE.
 - FASTENERS ALONG THE EDGES IN SHEAR PANELS SHALL BE PLACED IN FROM PANEL EDGES NOT LESS THAN 3/8".
 - INSTALL SCREWS TO INTERMEDIATE FRAMING MEMBERS AT 12"oc.
 - PROVIDE FLAT STRAP BLOCKING WITH A MINIMUM THICKNESS EQUAL TO THE STUD THICKNESS WITH A MINIMUM WIDTH OF 1-1/2" BETWEEN STUDS WHEN TOP OF BOTTOM PANEL EDGES DOES NOT BREAK ON A CONTINUOUS TRACK. PROVIDE PANEL EDGE SCREWS TO BLOCKING.
 - EMBED ANCHOR BOLTS AT LEAST 7" INTO CONCRETE. DRILLED & EPOXIED THREADED ROD MAY BE SUBSTITUTED FOR ANCHOR BOLTS WITH 6" EMBEDMENT. ALL ANCHOR AND EXPANSION BOLTS SHALL BE INSTALLED WITH STANDARD WASHERS BETWEEN THE TRACK AND THE NUT.
 - TWO STUDS MINIMUM ARE REQUIRED AT EACH END OF ALL SHEARWALLS UNLESS NOTED OTHERWISE. ALL END STUDS SHALL RECEIVE PANEL EDGE SCREWS. SEE PLANS FOR HOLDOWN STUD REQUIREMENTS.

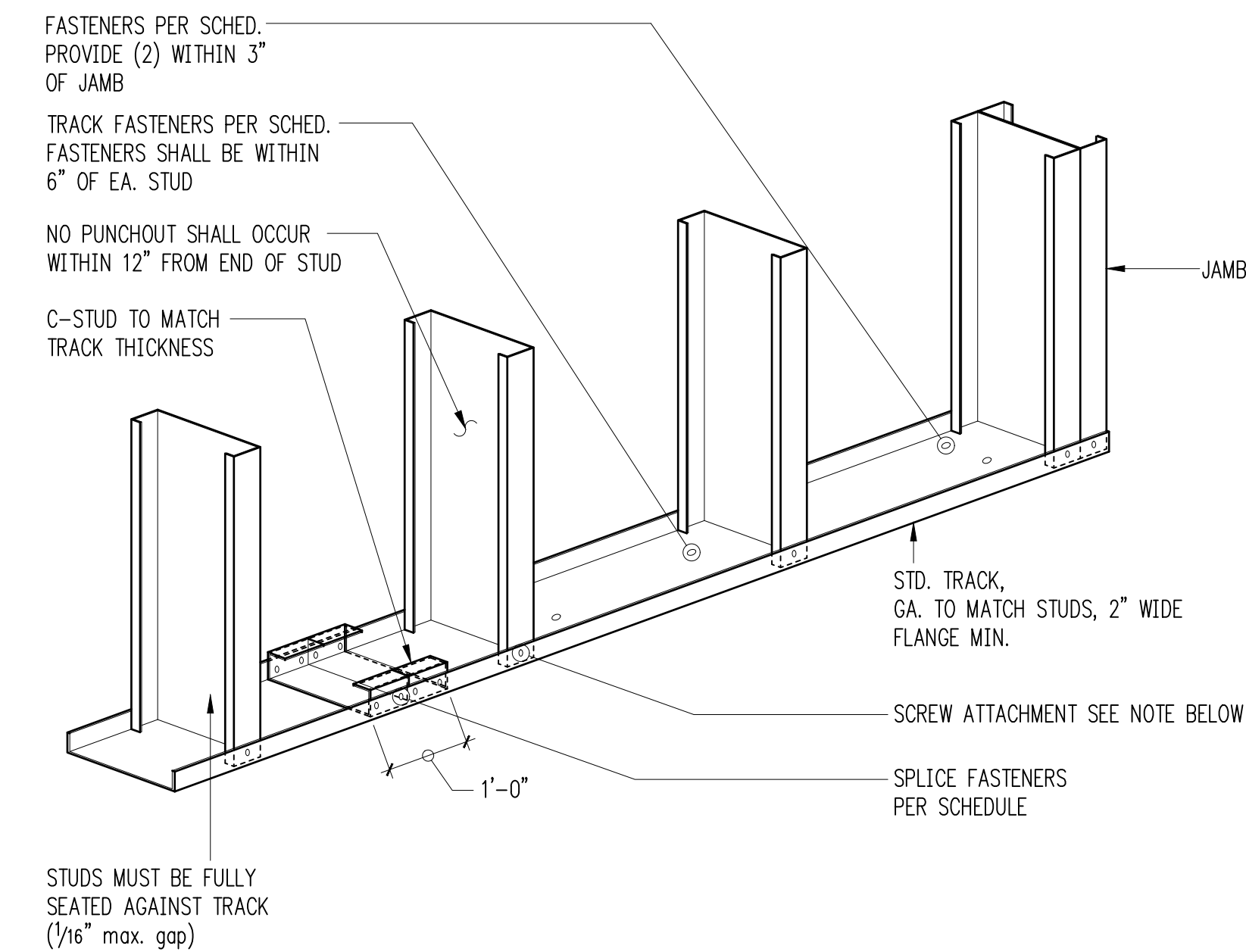
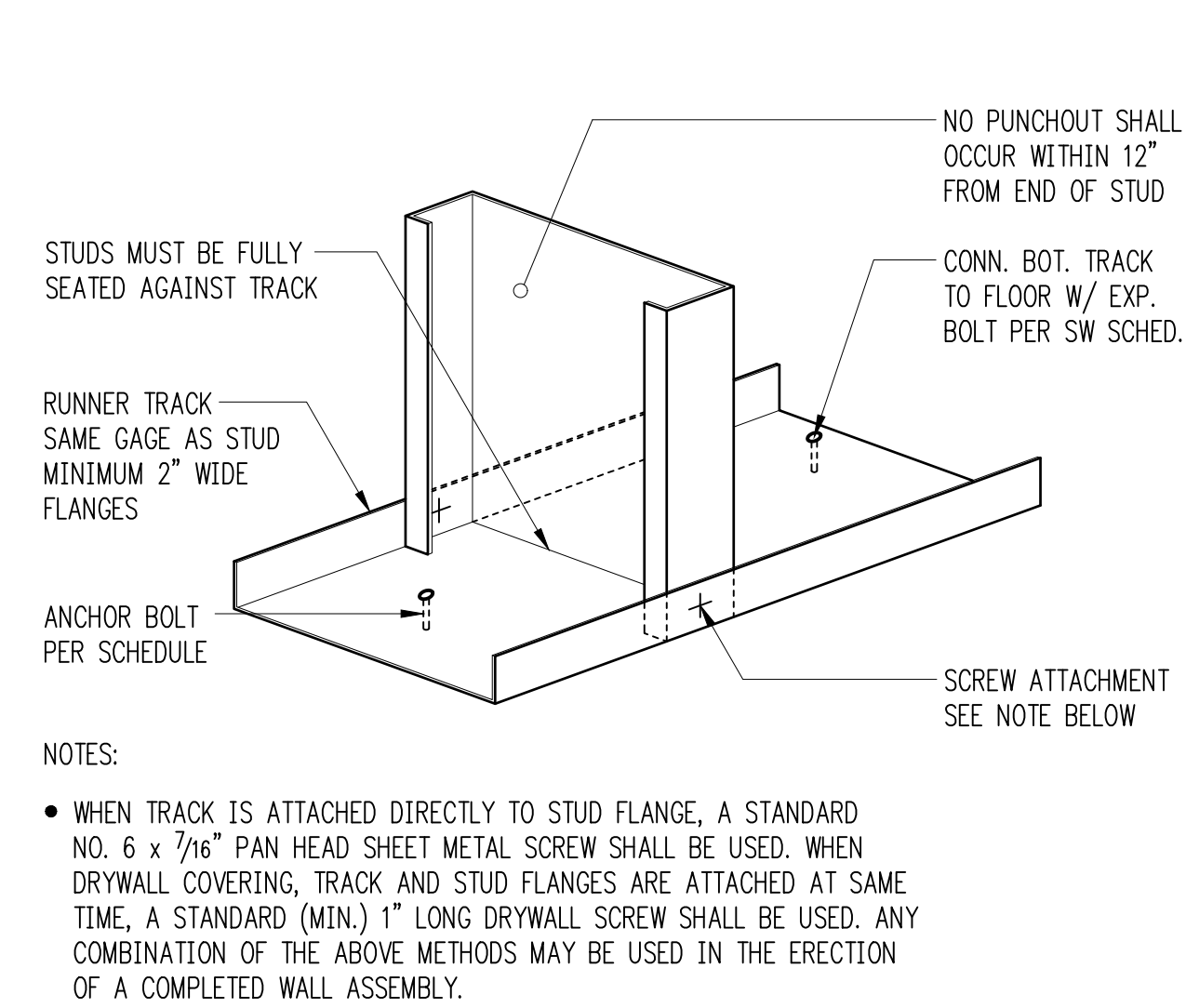
Shearwall Schedule

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16

Shearwall Bottom Track

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TRACK BASE FASTENER SPACING SCHEDULE

MAX. WALL HEIGHT	HILTI X-U TO CONCRETE	POWERS ZAMAC NAILING TO CONCRETE
10'-0"	(2) ROWS @ 10"oc	18"oc

* 3/4" MAX. PENETRATION AT POST-TENSIONED CONCRETE SLABS.

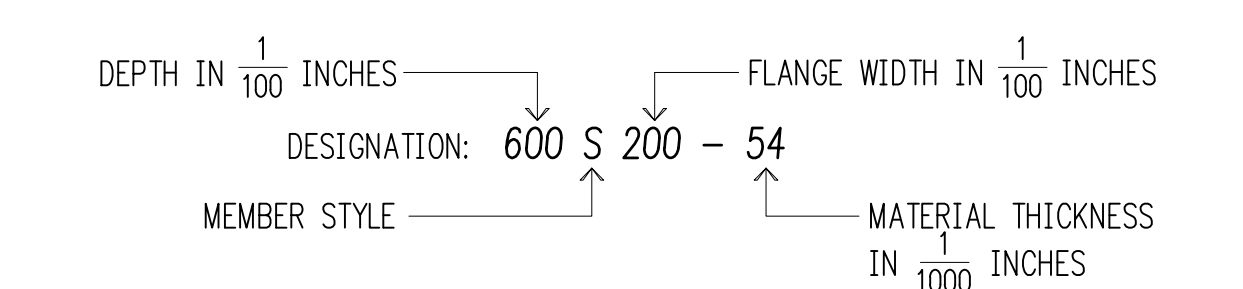
TRACK SPLICE FASTENER SCHEDULE

WALL TYPE	FASTENERS
SHEARWALL	(8)#8 SCREWS EA SIDE, (16) TOTAL
TYPICAL	(4)#8 SCREWS EA SIDE, (8) TOTAL

- NOTES:
- WHEN TRACK IS ATTACHED DIRECTLY TO STUD FLANGE A STANDARD NO. 6x7/16" PAN HEAD SCREW SHALL BE USED. WHEN DRYWALL COVERING, TRACK AND STUD FLANGES A RECOVERED AT THE SAME TIME, A STANDARD 1" LONG DRYWALL SCREW SHALL BE USED. ANY COMBINATION OF THE ABOVE METHODS MAY BE USED IN THE ERECTION OF A COMPLETED WALL ASSEMBLY.
 - SEE SHEARWALL SCHEDULE 15/S6.2 FOR ADDL. REQUIREMENTS.

Typical Studs To Bottom Track

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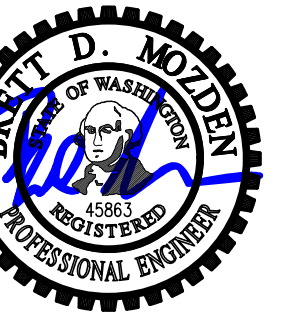


Typical Notes:

- METAL FRAMING USED SHALL CONFORM TO THE SHAPE, GRADE, SIZE, AND GAGE SPECIFIED. DESIGNATIONS REFER TO SHAPES NOTED BY THE STEEL STUD MANUFACTURER'S ASSOCIATION; SUBSTITUTES SHALL BE EQUIVALENT AND SHALL HAVE PROPERTIES EQUAL TO OR GREATER THAN THOSE SHOWN.
- METAL FRAMING SHALL BE GALVANIZED UNLESS OTHERWISE NOTED, CONFORMING AS FOLLOWS:
 12, 14, AND 16 GAGE ASTM A653, GRADE 50 Fy = 50ksi
 18 AND 20 GAGE ASTM A653, GRADE33 Fy = 33ksi
- ALL 8 AND 10 GAGE MATERIAL SHALL CONFORM TO ASTM A36 WITH A MINIMUM YIELD OF 36,000 psi.
- REFER TYPICAL BRIDGING AND BRACING DETAILS FOR THE LATERAL SUPPORT OF ALL BEARING WALLS.
- TRACK SECTIONS SHALL BE UNPUNCHED AND HAVE AT LEAST 1/2" FLANGES.
- WELDING OF COLD-FORMED METAL FRAMING SHALL CONFORM TO AWS D1.3 AND SHALL BE PERFORMED BY WELDERS QUALIFIED TO PRODUCE THE SPECIFIED CLASS OF WELD.

Typical Metal Framing Properties

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DESIGN: HAA, SRW
 DRAWN: NHD
 CHECKED: SRW
 APPROVED: BDM

REVISIONS:

JURISDICTIONAL APPROVAL STAMP:

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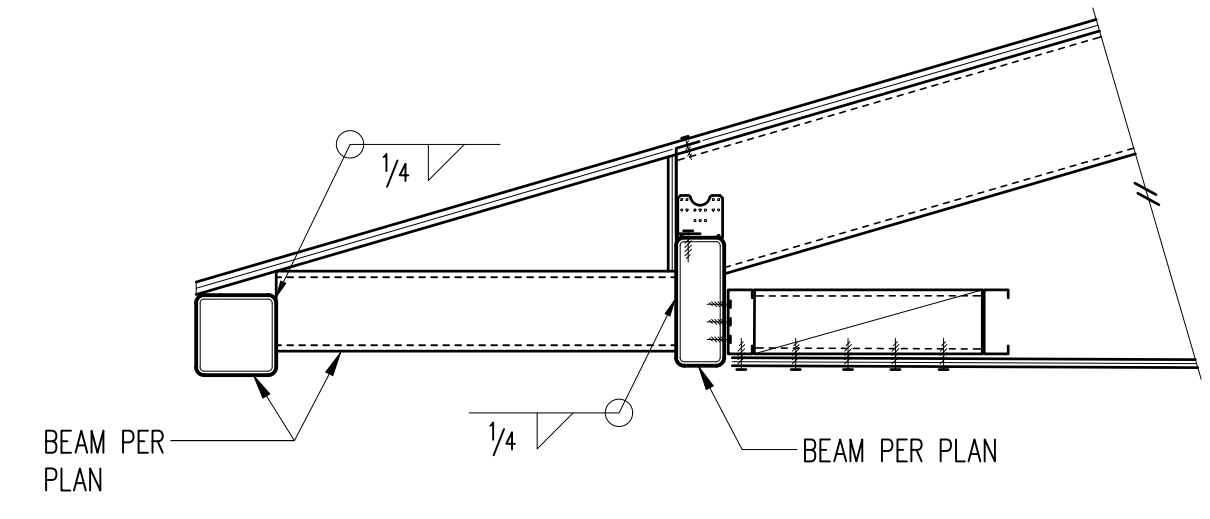
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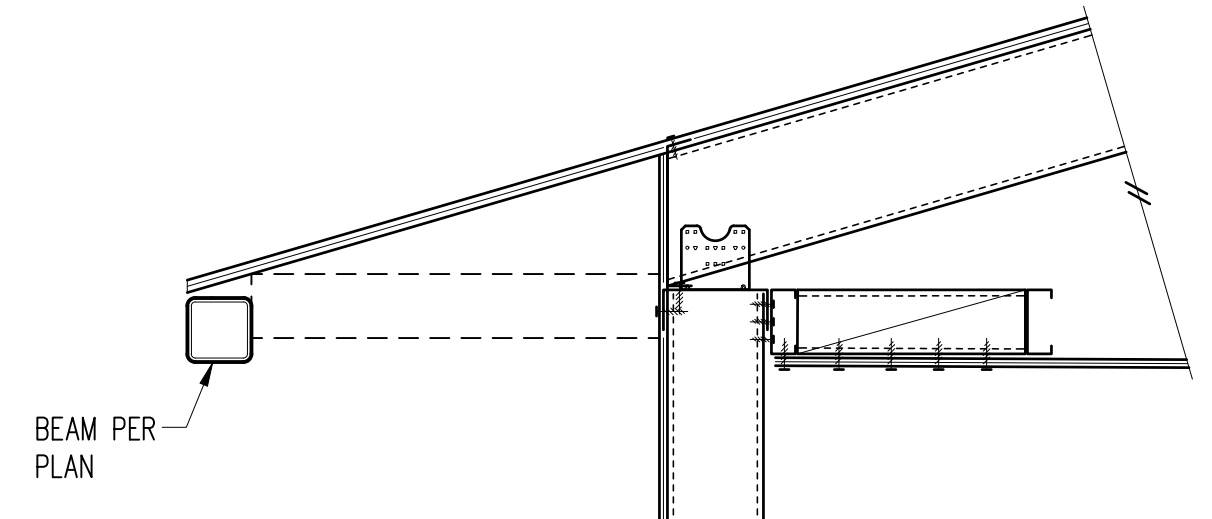
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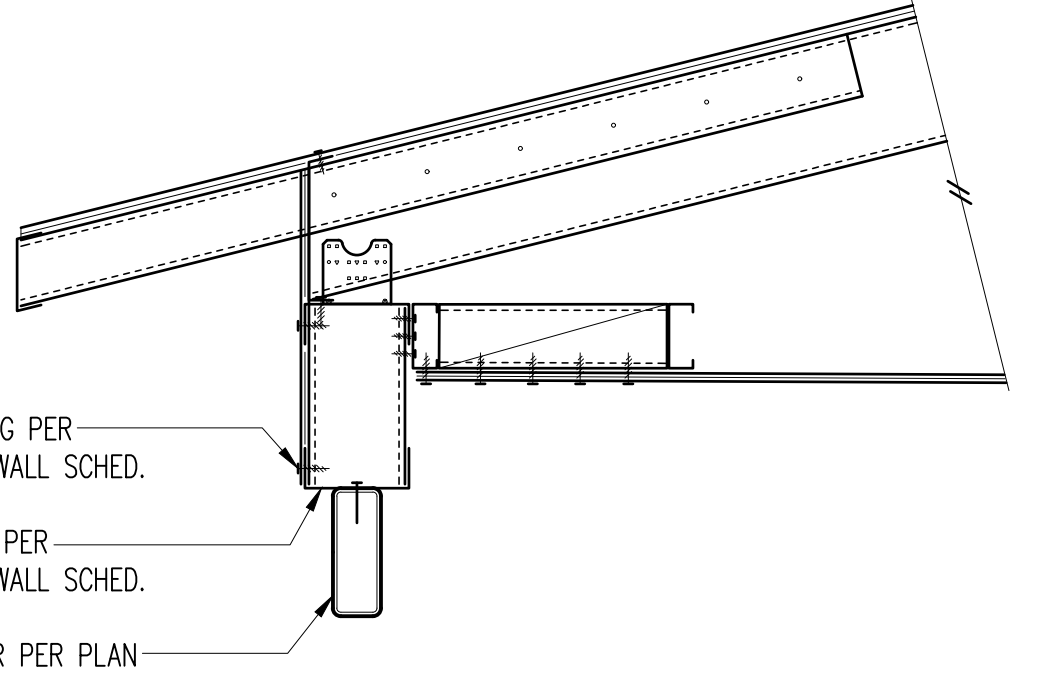
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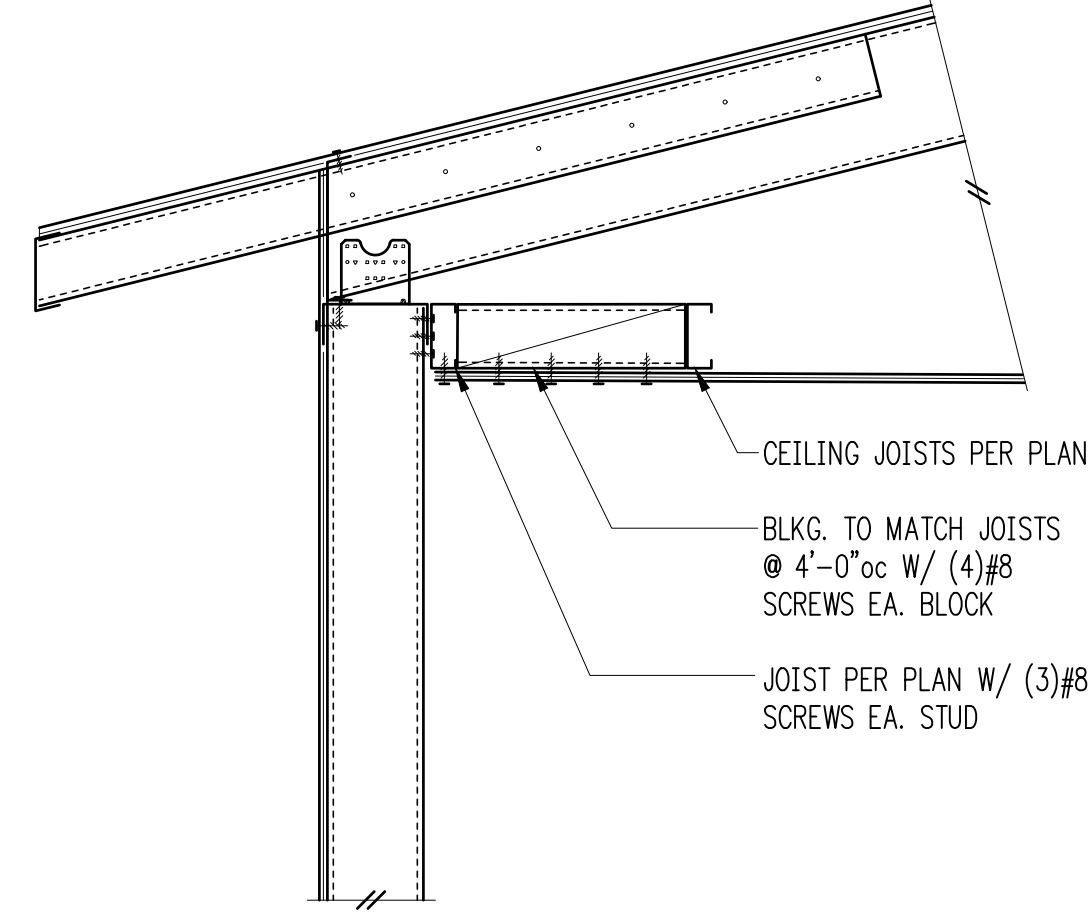
FOR CALLOUTS
 IN COMMON
 REFER 14/S6.2



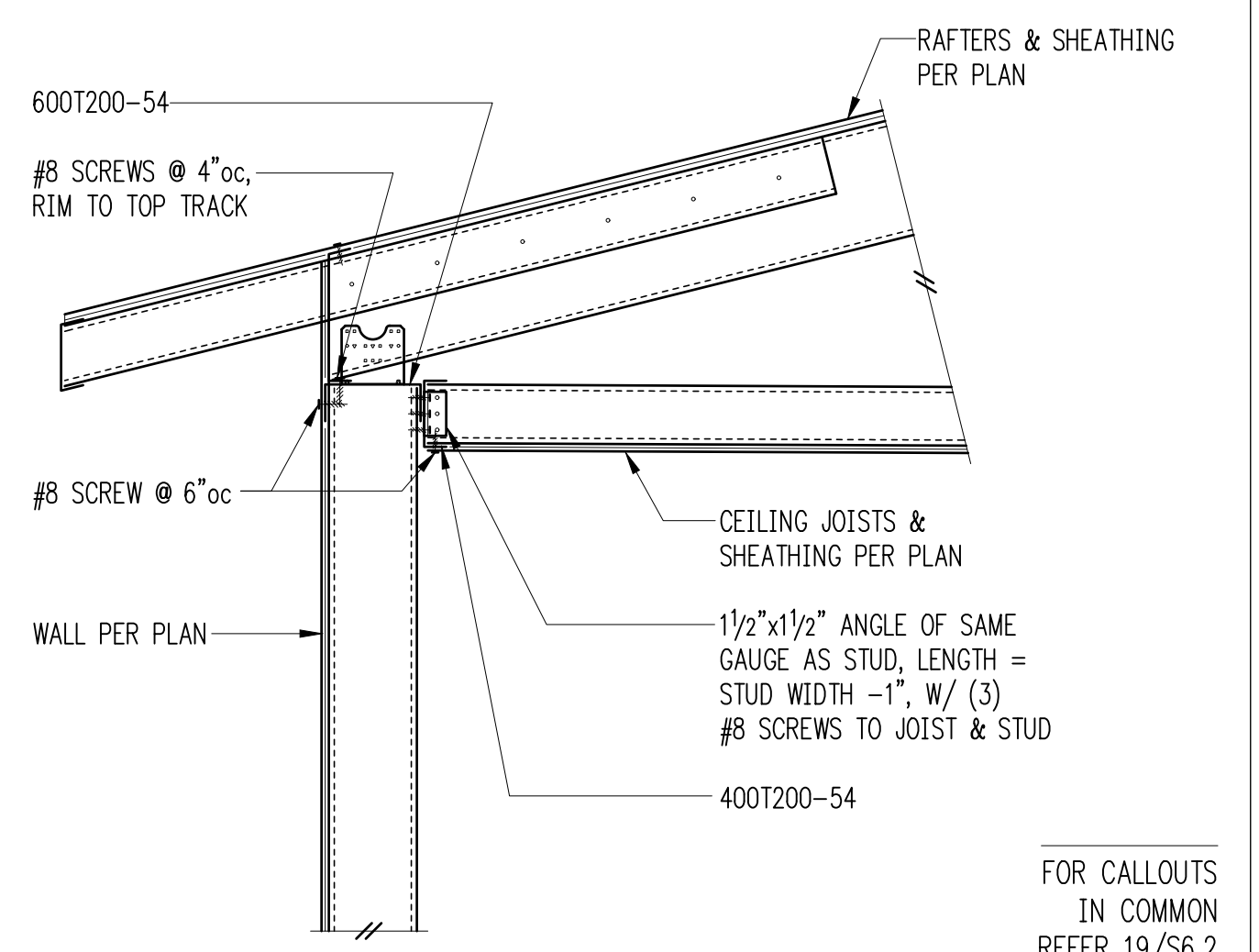
FOR CALLOUTS
 IN COMMON
 REFER 14/S6.2



FOR CALLOUTS
 IN COMMON
 REFER 14/S6.2



FOR CALLOUTS
 IN COMMON
 REFER 15/S6.2



FOR CALLOUTS
 IN COMMON
 REFER 19/S6.2

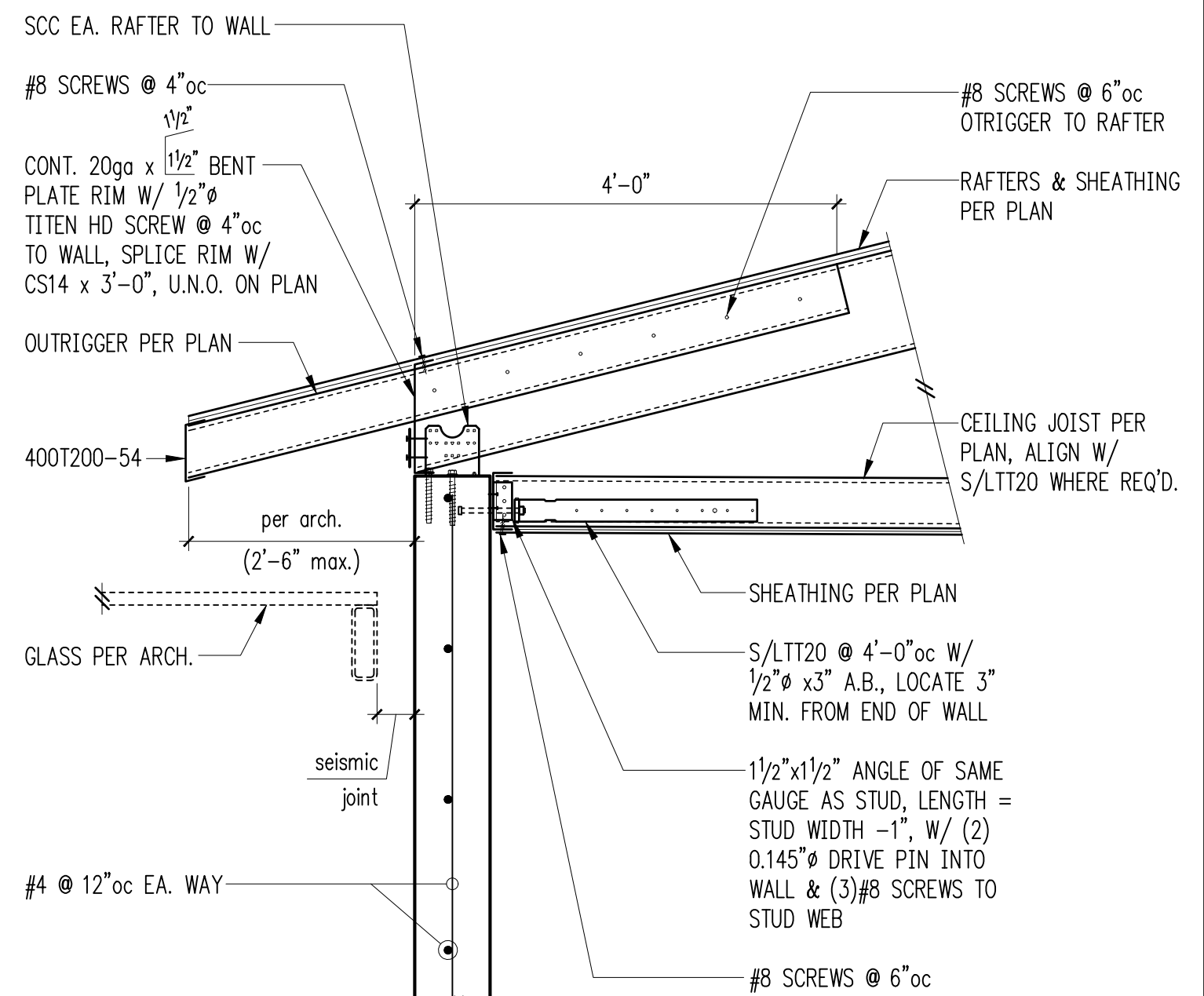
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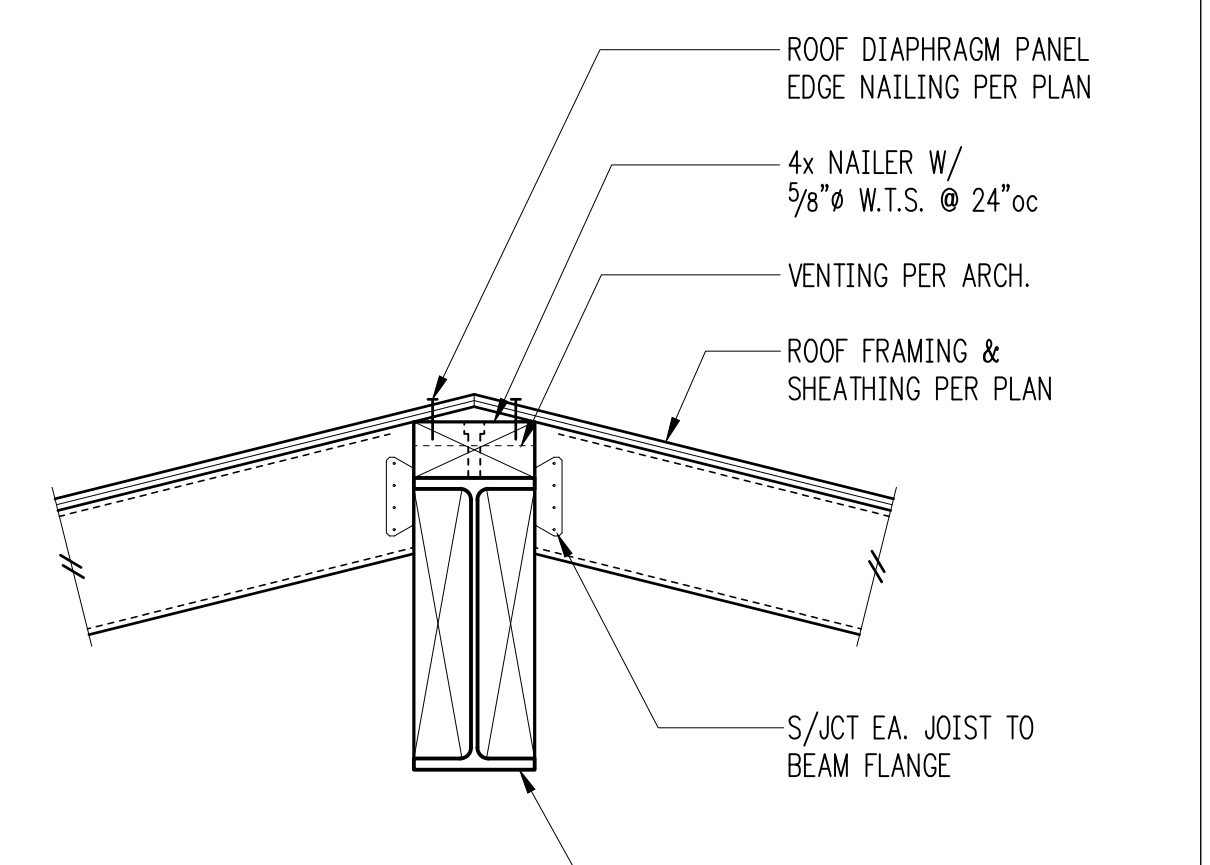
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Ridge Beam 20

16

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PROJECT TITLE:
8480 Residence
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 Mercer Island, WA 98040

ARCHITECT:
Brandt Design Group
 66 Bell Street, Unit 1
 Seattle, WA 98121
 PH: 206.239.0850
 brandtdesigninc.com

ISSUE:
PERMIT

SHEET TITLE:
**Light GAUGE
 Details**

SCALE: 1" = 1'-0" U.N.O.
 DATE: March 11, 2022
 PROJECT NO: 01519-2021-09
 SHEET NO:

S6.2