

TCHC 11c - GRANBOIS CUSTOM

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NOTE: FIRE SPRINKLERS REQ'D.

PROJECT TEAM

DESIGNER:
TCHC, LLC, DBA: BDR CUSTOM LLC
P.O. BOX 50208
BELLEVUE, WA 98015
CONTACT: JIM DWYER
TEL: 425-495-7101

CIVIL ENGINEER:
CORE DESIGN INC.
12100 NE 185th ST, SUITE 300
BOTHELL, WA 98011
CONTACT: SHERI MURIATA, P.E.
TEL: 425-885-1871

STRUCTURAL ENGINEER:
LONGITUDE 120 STRUCTURAL ENGINEERS
13150 91st NE
KIRKLAND, WA 98034
CONTACT: MANS THURFJELL
TEL: 425-636-3313

CODE COMPLIANCE:

ALL DESIGN AND CONSTRUCTION SHALL COMPLY WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AND AMENDMENTS IN USE AT THE TIME OF APPLICATION FOR PERMIT:

- INTERNATIONAL BUILDING CODE
- INTERNATIONAL RESIDENTIAL CODE
- WASHINGTON STATE AMENDMENTS
- INTERNATIONAL FIRE CODE
- INTERNATIONAL MECHANICAL CODE
- UNIFORM PLUMBING CODE
- WASHINGTON STATE ENERGY CODES
- INTERNATIONAL SWIMMING POOL AND SPA CODES
- LIQUEFIED PETROLEUM GAS CODE
- NATIONAL FUEL GAS CODE

GENERAL CONSTRUCTION NOTES:

ALL DIMENSIONS & NOTES ON THE ARCHITECTURAL DRAWINGS & ENGINEERING CALCULATIONS TAKE PRECEDENCE OVER ALL GENERAL NOTES ON THIS SHEET.

FACTORY BUILT FIREPLACE & CHIMNEY TO BE UL LABELED AND TESTED IN ACCORDANCE TO UL 127. INSTALL PER MFR'S SPECS. OUTSIDE COMBUSTION AIR REQ'D. (MIN. 6 SQ IN.) DUCTED DIRECTLY TO FIREBOX w/ OPERABLE OUTSIDE DAMPER, TIGHTLY FITTING FLUE DAMPER AND TIGHT FITTING GLASS OR METAL DOORS OR FLUE DRAFT INDUCTION FAN.

LIMIT SHOWER FLOW TO 1.1 GPM OR LESS. LIMIT TOILETS TO 1.6 GPM OR LESS.

ALL SKYLIGHTS TO COMPLY WITH I.R.C. R308.6

ALL SIDELITES, SLIDING GLASS DOORS AND TUB/SHOWER ENCLOSURES TO COMPLY WITH I.R.C. R308.4

VENT DRYER, OVEN/RANGE AND EXHAUST FANS TO OUTSIDE. DRYER EXHAUST DUCTS SHALL NOT EXCEED A TOTAL COMB. HORIZ. AND VERT. LENGTH OF 14'-0", INCL. TWO 90d. ELBOWS. DEDUCT 2'-0" FOR EA. 90d. ELBOW IN EXCESS OF TWO. ALL EXHAUST DUCTS TO INSULATED TO A MIN. OF R-4.

TUB/SHOWER SURROUND WALLS TO HAVE FIBER-CEMENT BACKER BOARD AND FINISHED WITH A SMOOTH NON-ABSORBENT SURFACE TO A MINIMUM HEIGHT OF 12" ABOVE THE FLOOR.

PROVIDE SMOKE DETECTOR IN COMPLIANCE WITH I.R.C. R314 ALL SMOKE DETECTORS w/BATTERY BACKUP. SMOKE DETECTORS WILL SOUND AN AUDIBLE ALARM IN ALL SLEEPING ROOMS.

PROVIDE CARBON MONOXIDE DETECTOR IN COMPLIANCE WITH I.R.C. R315 OUTSIDE OF EACH SEPARATE SLEEPING AREA AND IN THE IMMEDIATE VICINITY OF ALL BEDROOMS. CARBON MONOXIDE DETECTOR SHALL MEET UL LISTING 2034 AND BE INSTALLED PER MFG LISTING.

EGRESS WINDOWS AT ALL BEDROOMS SHALL CONFORM TO THE FOLLOWING CRITERIA PER I.R.C. R310: MINIMUM NET CLEAR HEIGHT SHALL BE 24". MINIMUM NET CLEAR WIDTH SHALL BE 20". MAXIMUM FINISHED SILL HEIGHT ABOVE FLOOR SHALL BE 44". WHERE THE SILL OF A WINDOW IS GREATER THAN 12" ABOVE FINISH GRADE OR SURFACE BELOW THE MINIMUM SILL HEIGHT ABOVE FINISH FLOOR SHALL BE 24" (R312.2.1).

FIRE STOPS SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS FROM VERTICAL TO HORIZONTAL SPACES, INCLUDING THE STAIR, TUB, SHWR, FIREPLACE, ETC. PER I.R.C. R302.11.

ASSUMED DESIGN LOADS

ALL ASSUMED DESIGN LOADS ARE PER THE CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE (UNLESS NOTED BY ENGINEER)

UNIFORM SNOW LOAD	40 P8F
SEISMIC ZONE CATEGORY	D
WEATHERING	MODERATE
FROST LINE DEPTH	18"
TERMITE INFESTATION RISK	SLIGHT TO MODERATE
RISK OF DECAY	SLIGHT TO MODERATE
WINTER DESIGN TEMPERATURE	22° F
FLOOD HAZARD INDEX	MAY 12, 1974 - AMENDED NOV 9, 1999
AIR FREEZING INDEX	170
MEAN ANNUAL TEMPERATURE	51° F

PLUMBING / MECHANICAL / ELECTRICAL INSTALLATION

ALL PLUMBING, MECHANICAL AND ELECTRICAL PERMITS SHALL BE OBTAINED SEPARATELY FROM THE BUILDING PERMIT AS NECESSARY AND SHALL BE APPLIED FOR BY THE APPROPRIATELY LICENSED SUBCONTRACTOR DIRECTLY.

TUB WASTE OPENINGS IN FRAMED CONSTRUCTION TO CRAWL SPACES AT OR BELOW THE FIRST FLOOR SHALL BE PROTECTED BY THE INSTALLATION OF APPROVED METAL COLLARS OR METAL SCREEN SECURELY FASTENED TO THE ADJOINING STRUCTURE WITH NO OPENING GREATER THAN 1/2 INCH (1/2" MIN) IN THE LEAST DIMENSION PER UPC 313.12.4

THE MAXIMUM HOT WATER TEMPERATURE DISCHARGING FROM THE BATH TUB AND WHIRLPOOL BATH TUB FILLER SHALL BE LIMITED TO 120° FAHRENHEIT. THE WATER HEATER THERMOSTAT SHALL NOT BE CONSIDERED A CONTROL FOR MEETING THIS PROVISION PER UPC 414.5

GAS-FIRED FURNACES INSTALLED WITHIN THE INTERIOR THERMAL ENVELOPE SHALL BE DIRECT-VENTED OR 94% EFFICIENT, UNLESS INSTALLED IN A ROOM OR SPACE THAT OPENS ONLY INTO A BEDROOM OR BATHROOM, AND SUCH ROOM OR SPACE IS USED FOR NO OTHER PURPOSE AND IS PROVIDED WITH A SOLID WEATHER-STRIPPED DOOR EQUIPPED WITH AN APPROVED SELF-CLOSING DEVICE PER IRC G2406.2. ALL COMBUSTION AIR SHALL BE TAKEN DIRECTLY FROM THE OUTDOORS IN ACCORDANCE WITH SECTION G2401.6, AND SAID ROOM OR SPACE SHALL BE INSULATED PER W8EC.

ENERGY CODE REQUIREMENTS

SHALL COMPLY WITH THE CURRENT EDITION OF THE W8EC PRESCRIPTIVE REQUIREMENTS

LARGE DWELLING UNIT: GREATER THAN 5,000 S.F. 7 CREDITS

TABLE R406 OPTIONS

SYSTEM TYPE * OPTION 2 (HEAT PUMP)	1.0 CREDITS
EFFICIENT BUILDING ENVELOPE * OPTION 1.3	0.5 CREDITS
AIR LEAKAGE CONTROL AND EFFICIENT VENTILATION * OPTION 2.3	1.5 CREDITS
HIGH EFFICIENCY HVAC EQUIPMENT * OPTION 3.5	1.5 CREDITS
HIGH EFFICIENCY HVAC DISTRIBUTION * OPTION 4.2	1.0 CREDITS
EFFICIENT WATER HEATING * OPTION 5.4	1.5 CREDITS
TOTAL PROVIDED	7 CREDITS

SEE SUBMITTED ENERGY FORMS FOR MORE DETAILS

A RESIDENTIAL ENERGY CERTIFICATE COMPLYING WITH (W8EC 401.3) IS REQUIRED TO BE COMPLETED BY THE DESIGN PROFESSIONAL OR BUILDER AND PERMANENTLY POSTED WITHIN 3 FEET OF THE ELECTRICAL PANEL PRIOR TO FINAL INSPECTION.

AIR LEAKAGE TESTING (W8EC 402.4.1.2) SHALL BE PERFORMED IN THE PRESENCE OF THE BUILDING OFFICIAL OR THEIR DULY APPOINTED REPRESENTATIVE. THE RESULTS SHALL BE RECORDED ON THE ENERGY COMPLIANCE CERTIFICATE.

AIR LEAKAGE SHALL BE REDUCED TO A MAXIMUM OF 5 AIR CHANGES PER HOUR (PER R402.1.2 OF 218 W8EC), AND THE WHOLE HOUSE VENTILATION REQUIREMENTS SHALL BE MET WITH A HEAT RECOVERY VENTILATION SYSTEM WITH MINIMUM SENSIBLE HEAT RECOVERY EFFICIENCY OF 0.70.

ALL DUCTS AND AIR HANDLERS AND FILTER BOXES SHALL IN ACCORDANCE WITH (W8EC 403.2.1 THROUGH 403.2.3). JOINTS AND SEAMS SHALL COMPLY WITH THE CURRENT I.R.C. AND I.M.C. A DUCT LEAKAGE TEST SHALL BE PERFORMED BY A QUALIFIED TECHNICIAN AND A DUCT LEAKAGE AFFIDAVIT SHALL BE POSTED NEXT TO THE ELECTRICAL PANEL.

AT LEAST 90% OF ALL INTERIOR LUMINARIES AND ALL EXTERIOR LUMINARIES SHALL BE HIGH EFFICACY (W8EC 404.1). HIGH EFFICACY LUMINARIES ARE DEFINED AS, A LIGHTING FIXTURE THAT DOES NOT CONTAIN A MEDIUM SCREW BASE SOCKET (E24/E26) AND WHOSE LAMPS OR OTHER LIGHT SOURCE HAVE A MINIMUM EFFICIENCY OF 60 LUMENS PER WATT FOR LAMPS OVER 40 WATTS, 50 LUMENS PER WATT FOR LAMPS OVER 15 WATTS AND UP TO 40 WATTS, 40 LUMENS PER WATT FOR LAMPS OF 15 WATTS OR LESS.

LUMINAIRES PROVIDING OUTDOOR LIGHTING (W8EC 505.2) AND PERMANENTLY MOUNTED TO A RESIDENTIAL BUILDING OR OTHER BUILDINGS ON THE SAME LOT SHALL BE HIGH EFFICACY LUMINAIRES UNLESS CONTROLLED BY A MOTION SENSOR WITH INTEGRAL PHOTOCONTROL PHOTOSENSOR.

HOT WATER TANK WILL HAVE A MINIMUM E.F. OF 0.91 IN ACCORDANCE TO W8EC TABLE 406.2 ENERGY CREDIT OPTION 5b AND SHALL BE LABELED PER ASHRAE STD. NO. 90A-90.

EACH DWELLING UNIT IS REQUIRED TO HAVE AT LEAST ONE PROGRAMMABLE THERMOSTAT FOR THE REGULATION OF TEMPERATURE.

VENTILATION / AIR QUALITY REQUIREMENTS:

SOURCE SPECIFIC VENTILATION REQUIREMENTS

- BATHROOMS AND POWDER ROOM FANS TO BE 50 CFM. KITCHEN EXHAUST FANS TO BE 100 CFM. -EXHAUST FANS SHALL BE FLOW RATED AT .25 W.G. STATIC PRESSURE
- EXHAUST DUCTS SHALL:
 - BE INSULATED TO R-4 IN UNCONDITIONED SPACE
 - BE EQUIPPED WITH A BACKDRAFT DAMPER
 - TERMINATE OUTSIDE THE BUILDING
 - COMPLY WITH M1905.4.4(2) PER 2018 IRC

FAN CFM	MAX FLEX DIA.	MAX FT.	MAX SMOOTH DIA.	MAX FT.
50	4"	25'	4"	10'
50	5"	90'	5"	100'
50	6"	+100'	6"	+100'
80	4"	not allowed	4"	20'
80	5"	15'	5"	100'
80	6"	90'	6"	+100'
100	5"	not allowed	5"	50'
100	6"	15'	6"	+100'
125	6"	15'	6"	+100'
125	7"	10'	7"	+100'

WHOLE HOUSE VENTILATION REQUIREMENTS:

- AN INTERMITTENT WHOLE HOUSE EXHAUST FAN SHALL BE LOCATED IN THE CEILING AND SHALL BE SIZED TO PROVIDE THE MINIMUM VENTILATION RATE SPECIFIED IN TABLE M1901.3.3 (1)
- EXHAUST FANS MUST BE FLOW RATED AT .25 W.G. AND MAX. 1.0 SONE RATING.
- AIR LEAKAGE SHALL BE REDUCED TO A MAXIMUM OF 2 AIR CHANGES PER HOUR, AND THE WHOLE HOUSE VENTILATION REQUIREMENTS SHALL BE MET WITH A HEAT RECOVERY VENTILATION SYSTEM WITH MINIMUM SENSIBLE HEAT RECOVERY EFFICIENCY OF 0.70. IN ACCORDANCE WITH W8EC TABLE 406.2 ENERGY CREDIT OPTION 2b.
- A READILY ACCESSIBLE 24 HOUR CLOCK TIMER SHALL BE INSTALLED AND WIRED TO REGULATE THE WHOLE HOUSE EXHAUST FAN. THE TIMER SHALL BE SET TO CYCLE THE FAN AT LEAST 180 MIN. EVERY 4 HOURS AND THE CYCLE "RUN TIME" SHALL PROVIDE ENOUGH VENTILATION DURING THAT PERIOD TO EQUAL THE CONTINUOUS VENTILATION RATE PER TABLE M1901.3.3 (1).
- INTERIOR DOORS SHALL BE INSTALLED 80 AS NOT TO IMPEDE THE MOVEMENT OF FRESH AIR TO ALL HABITABLE ROOMS (1/2" UNDERCUT U.N.O.).
- AN AIR TRANSFER GRILLE SHALL BE PROVIDED ABOVE OR WITHIN UTILITY ROOM DOOR TO PROVIDE SUFFICIENT MAKEUP AIR FOR EXHAUST AS REQUIRED
- OUTDOOR AIR INLETS SHALL BE LOCATED IN EACH HABITABLE ROOM AND PROVIDE AT LEAST 4 SQUARE INCHES OF FREE AREA OPENING. INLETS SHALL BE SCREENED AND SHALL NOT DRAW AIR FROM PROHIBITED LOCATIONS LISTED UNDER IRC M1602.2.

WHOLE HOUSE VENTILATION CALCULATIONS:

HEATED SQUARE FOOTAGE = 7,168

NUMBER OF BEDROOMS = 6

MIN. VENTILATION RATE PER TABLE M1901.3.3 (1) = 135

CALCULATION PER M1901.3.3 (2) = 135 X 1.3 = 175.5

PROVIDE A WHOLE-HOUSE FAN WITH THE MINIMUM CAPACITY OF 175.5 CFM THAT OPERATES FOR 180 MINUTES EVERY 4 HOUR CYCLE.

MOISTURE CONTROL

WALLS SEPARATING CONDITIONED SPACES FROM UNCONDITIONED SPACES SHALL HAVE A VAPOR RETARDER INSTALLED ON THE WARM SIDE OF THE WALL USING FACE INSULATION OR FRICTION FIT WITH 6MIL POLYETHYLENE OR CLASS III VAPOR RETARDER PVA. (I.R.C. R702.1.1)

SEAL CAULK, GASKET, FLASH OR WEATHER STRIP: AROUND WINDOW AND DOOR FRAMES (PER MFG INSTALLATION SPECIFICATIONS), AT EXTERIOR JOINTS, OPNG'S BTWN WALL AND ROOF AND WALL PANELS, OPNG'S AT UTILITY PENETRATIONS THROUGH WALLS, FLOORS, AND ROOFS, ALL OTHER OPNG'S IN BLD'G ENVELOPE.

CATHEDRAL CEILING (NO ATTIC) - VAPOR RETARDER SHALL HAVE A DRY CUP PERM RATE OF 1.0 OR LESS

ALL EXTERIOR DOORS OR ACCESS HATCHES TO ENCLOSED UNHEATED AREAS MUST BE WEATHER STRIPPED.

REVISIONS	DATE
NO.	DATE
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2	
3	
4	
5	
6	
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9	
10	

TCHC, LLC (DBA: BDR Custom)

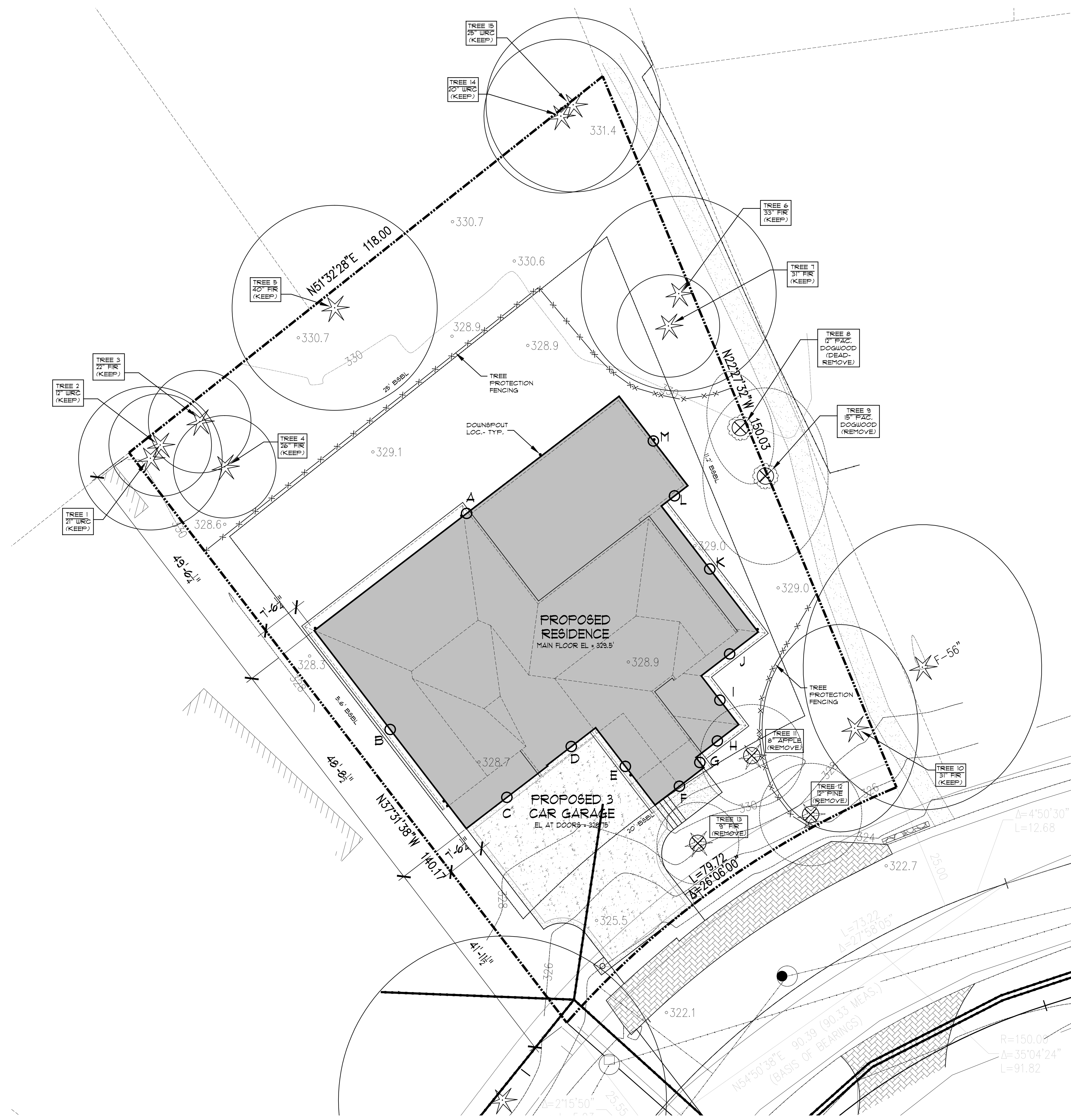
P.O. BOX 50208
BELLEVUE, WA 98015
(425) 885-5400

GRANBOIS RESIDENCE

8440 SE 82nd St, Mercer Island

GENERAL NOTES	SHEET INDEX
	PROJECT TEAM

DESIGN: JMD
DRAWN: JMD
ISSUE DATE: APR 7 2023
PLAN No:
SHEET COVER



SITE PLAN

SCALE: 1" = 10'-0"

TAX PARCEL#:
#362560-0120

ADDRESS/ LEGAL:
8440 SE 82nd St, Mercer Island, WA, 98040

Legal: ISLAND POINT ADD #2 AND UND INT IN COMMUNITY TR

LOT COVERAGE:

LOT AREA (PER SURVEY):	13,806 S.F.
ALLOWABLE LOT COVERAGE + 40%:	5,522 S.F.
MAIN STRUCTURE ROOF AREA:	2,784 S.F.
COVERED PATIOS + DECKS:	1,275 S.F.
VEHICULAR USE (DRIVEWAY, PAVED ACCESS, UNCOVERED WALKS):	1,231 S.F.
TOTAL PROJECT IMPERVIOUS AREA:	5,296 S.F.
PROPOSED LOT COVERAGE AREA:	38.3 %

GROSS FLOOR AREA:

MAX ALLOWABLE GFAR + 40%:	5,522 S.F.
MAIN FLOOR:	2,388 S.F.
UPPER FLOOR (NET):	2,376 S.F.
GARAGE:	748 S.F.
PROPOSED GFAR + 5.912 S.F.:	39.9%

HARDSCAPE:

MAX ALLOWABLE + 9%:	1,242.5 S.F.
NEW HARDSCAPE (WALKWAYS AND UNCOVERED PATIOS) + 1.28%:	171 S.F.

CITY OF MERCER ISLAND HEIGHT RESTRICTION

AVERAGE BUILDING ELEVATION

MIDPOINT ELEV	WALL SEGMENT LENGTH	MIDPOINT x LENGTH (Ax8)
A 329.0	a 75'	24,675
B 328.5	b 48.1'	15,997.95
C 328.5	c 20'	6,570
D 328.5	d 12'	3,942
E 328.5	e 19'	6,241.5
F 329.0	f 12'	3,948
G 329.0	g 2.5'	822.5
H 329.0	h 10.5'	3,454.5
I 329.0	i 12'	3,948
J 329.0	j 14'	4,606
K 329.0	k 31'	10,299
L 329.0	l 6.1'	2,020.3
M 329.0	m 22.3'	7,326.1
	285.1'	93,945.45

TOTAL MIDPOINT x LENGTH = 93,945.45
 TOTAL WALL LENGTH = 285.1'
 $93,945.45 / 285.1 = 329.82'$
 AVERAGE BUILDING ELEVATION = 329.82'
 MAX BUILDING HEIGHT = 329.82' + 30' = 359.82'
 HOME BUILDING HEIGHT = 359.02'
 (SEE ELEVATION SHEETS A5.0 & A5.1)

LOT SLOPE CALCULATION:

HIGHEST ELEVATION POINT: 331.4'
 LOWEST ELEVATION POINT: 324.0'
 ELEVATION DIFFERENCE: 7.4'
 HORIZ. DIST. BETWEEN PFS: 165.75'

LOT SLOPE: 4.46%

(ELEV. DIFFERENCE DIVIDED BY HORIZ. DIST. MULTIPLIED BY 100)

TREE RETENTION CALCULATION:

SEE ARBORIST REPORT

☒ TREES TO BE REMOVED

REFER TO SITE SURVEY AND ARBORIST REPORT FOR TREE TYPE AND SIZE

DRAINAGE SWALE NOTE

PROVIDE DRAINAGE SWALE @ HOUSE PERIMETER FOR SITE DRAINAGE AWAY FROM RESIDENCE AND AWAY FROM ADJACENT PROPERTIES.

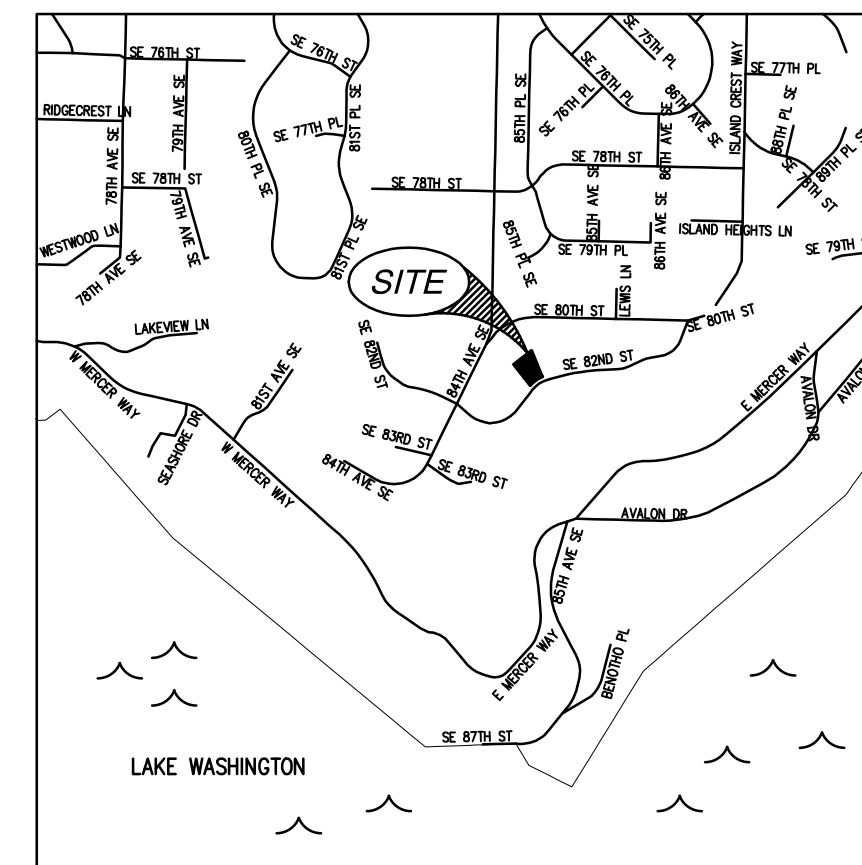
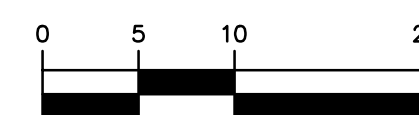
FOUNDATION STAKING NOTE

PRIOR TO STAKING FOUNDATION, A LICENSED SURVEYOR MUST VERIFY THAT THE DIMENSIONS SHOWN ON ARCHITECT'S/ DESIGNER'S FOUNDATION PLAN PROPERLY CLOSE. ANY DISCREPANCY SHALL BE IMMEDIATELY REPORTED TO DESIGNER PRIOR TO PRECEDING WITH THE WORK.

REVISIONS	DESCRIPTION	DATE
TCHC, LLC. (DBA: BDR Custom)	P.O. Box 50208	Bellevue, WA 98015
	(425) 889-5400	
BDR Granbois Custom	8440 SE 82nd St. Mercer Island, 98040	
	SITE PLAN/ AVG BLDG ELEV/ LOT COVERAGE	DESIGN: JMD
SHEET SITE	DRAWN: JMD	ISSUE DATE: 7 APR 2023
	PLAN No:	



SCALE: 1" = 10'



VICINITY MAP
NO SCALE

FOUND REBAR W/ 1-1/4" YELLOW CAP STAMPED "CRONES 29567" 0.07' N & 0' E OF PROPERTY CORNER

LOT 19
TPN: 362580-0190
P. OKANE
8020 84TH AVENUE SE

LOT 20
TPN: 362560-0200
F. SCHUNTER
8010 84TH AVENUE SE

LOT 19
ISLAND POINT
VOL. 75, PG. 88

TPN: 362550-0190
J. LERNER
8500 SE 82ND STREET

LOT 12
ISLAND POINT NO. 2
VOL. 79, PG. 18
TPN: 362560-0120
A. GRANBOIS
8440 SE 82ND STREET
MERCER ISLAND, WA 98040

LOT 13
TPN: 362560-0130
C. OBERG
8430 SE 82ND STREET

CB 2
N: 196525.84
E: 1296321.48
TYPE 2-54", SOLID LOCKING LID
(SEE TANK CONTROL STRUCTURE
DETAIL SHEET 4)
RIM 325.10
36" IE IN 319.00 (NE)
6" IE IN 319.00 (SE)
6" IE OUT 319.00 (S)

CB 3
N: 196552.27
E: 1296352.82
TYPE 2-54", SOLID LOCKING LID
RIM 328.46
6" IE IN 324.80 (NW)
36" IE IN 319.00 (SW)

CB 1
N: 196520.00
E: 1296326.23
TYPE 1,
RIM 323.40
6" IE OUT 320.00 (NW)

PROPOSED RESIDENCE
UPPER FLOOR EL = 341.06
MAIN FLOOR EL = 329.50
LOWER FLOOR EL = 317.94

PROPOSED 3 CAR GARAGE
EL AT DOORS
328.75

OWNER

ANDREW AND TRACI GRANDBOIS

LEGAL DESCRIPTION

LOT 12, ISLAND POINT NO. 2, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 79 OF PLATS, PAGE(S) 18 AND 19, RECORDS KING COUNTY, WASHINGTON.

SITUATE IN THE COUNTY OF KING, STATE OF WASHINGTON.

SITE STATISTICS

SETBACKS:
ZONE: R-9.6
FRONT: 20'
REAR: 25'
SIDE: 5.5'/11.2'

SITE ADDRESS: 8440 SE 82ND ST, MERCER ISLAND, WA 98040

TAX PARCEL NUMBER: 362560-0120

LOT COVERAGE

LOT AREA (PER SURVEY)	13,806 SF
ALLOWABLE LOT COVERAGE = 40%	5,522 SF
MAIN STRUCTURE ROOF AREA	4,122 SF
UNCOVERED PATIOS WALKS & DRIVEWAY	1,138 SF
TOTAL PROJECT IMPERVIOUS AREA	5,260 SF
PROPOSED LOT COVERAGE AREA	38.0%

UNDERGROUND LOCATOR SERVICE
CALL BEFORE YOU DIG!
1-800-424-5555

NO.	REVISIONS	DATE



CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
PLANNING
SURVEYING

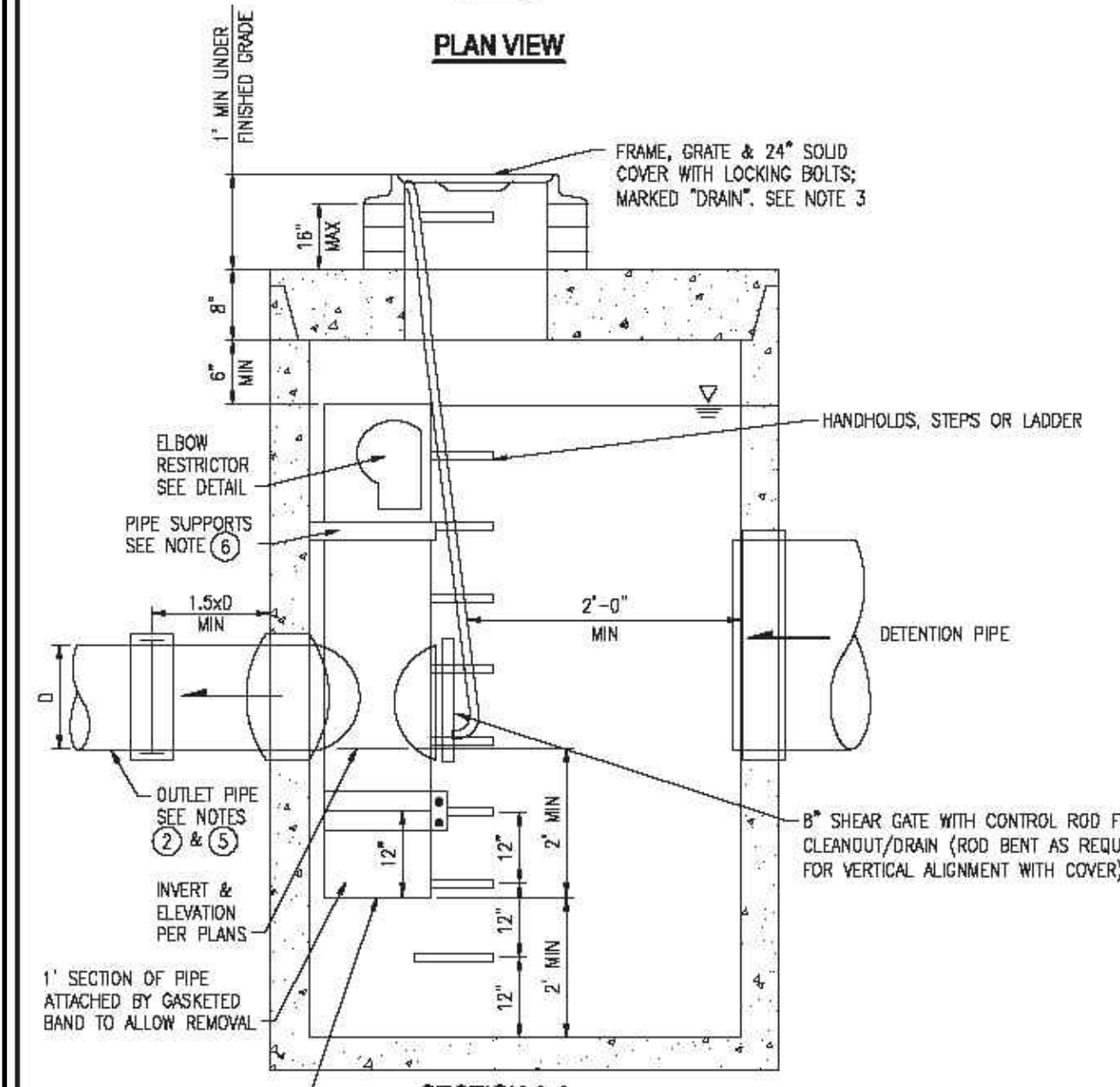
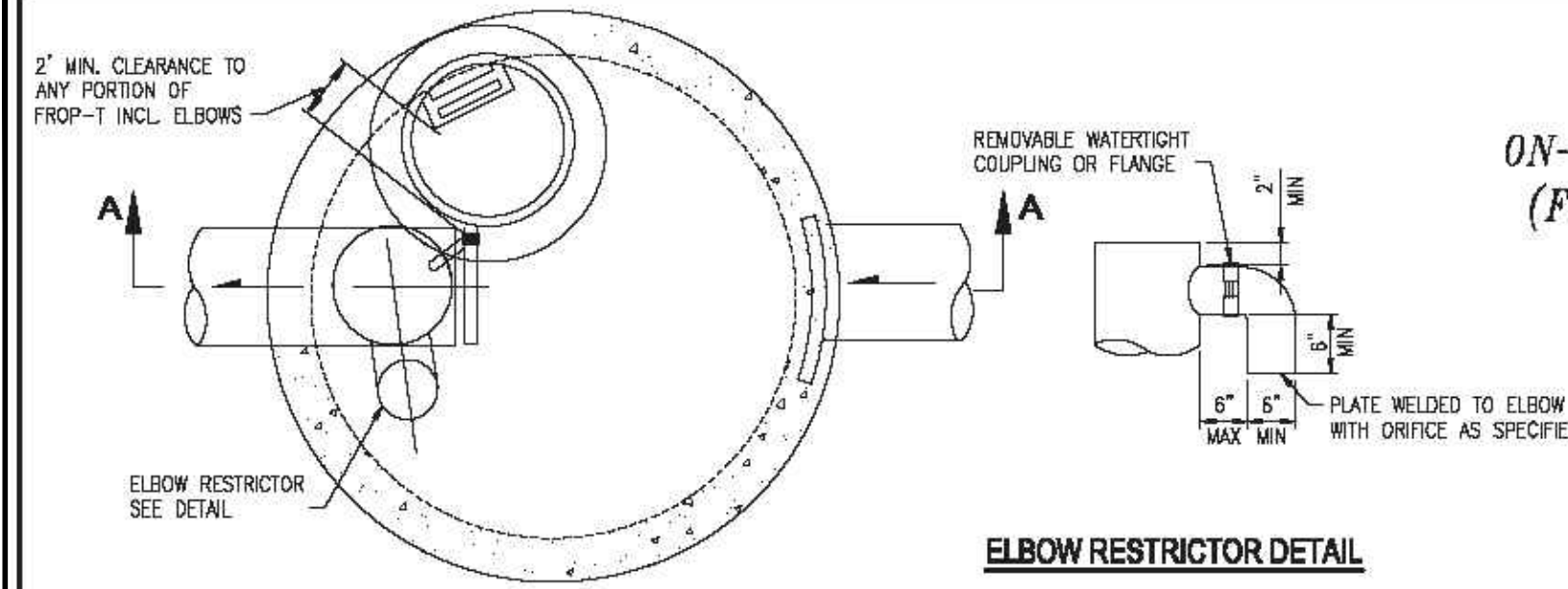


UTILITY PLAN
GRANBOIS CUSTOM
TCHC, LLC. (BDA: BDR CUSTOM)
P.O. BOX 50208
BELLEVUE, WA 98015

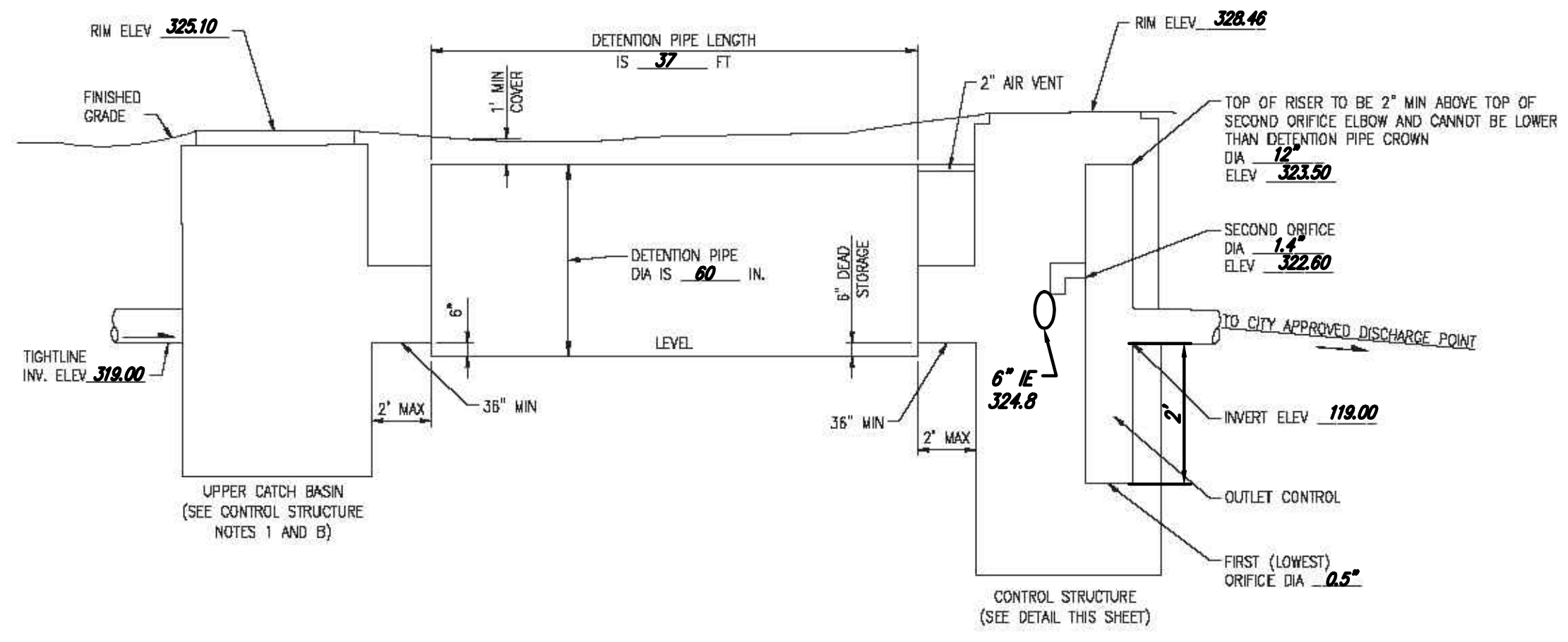
DATE	APRIL 2023 (1ST SUB)
DESIGNED	SHERI H. MURATA, P.E.
DRAWN	JOCELYN R. CASEMANS
APPROVED	SHERI H. MURATA, P.E.
	SHERI H. MURATA, P.E.
	PROJECT MANAGER

SHEET	OF
1	3
PROJECT NUMBER	
22293	

ATTACHMENT 1
CITY OF MERCER ISLAND
ON-SITE DETENTION SYSTEM WORKSHEET
(FOR NEW PLUS REPLACED IMPERVIOUS
AREA OF 9,500 SF OR LESS)



OWNER: **ANDREW AND TRACI GRANBOIS** ADDRESS: **8440 SE 82ND ST. MERCER ISLAND, WA 98040** PREPARED BY: **SHERI MURATA, P.E.**
 PERMIT #: _____ PHONE: **425-885-7877** DATE: **4/5/23**
 NEW PLUS REPLACED IMPERVIOUS SURFACE AREA (SF): **9,200 SF** DETENTION PIPE DIA (INCH): **60** DETENTION PIPE LENGTH (FT): **37** ORIFICE #1 DIA **0.5\"/>**



ON-SITE DETENTION SYSTEM
NOT TO SCALE (ENGINEER TO FILL IN BLANKS)

- ON-SITE DETENTION SYSTEM NOTES:**
- CALL DEVELOPMENT SERVICES (206-275-7805) 24 HOURS IN ADVANCE FOR A DETENTION SYSTEM INSPECTION BEFORE BACKFILLING AND FOR FINAL INSPECTIONS.
 - RESPONSIBILITY FOR OPERATION AND MAINTENANCE OF DRAINAGE SYSTEMS ON PRIVATE PROPERTY IS RESPONSIBILITY OF THE PROPERTY OWNER. MATERIAL ACCUMULATED IN THE STORAGE PIPE MUST BE REMOVED FROM CATCH BASINS TO ALLOW PROPER OPERATION. THE OUTLET CONTROL ORIFICE MUST BE KEPT OPEN AT ALL TIMES.
 - PIPE MATERIAL, JOINT, AND PROTECTIVE TREATMENT SHALL BE IN ACCORDANCE WITH SECTION 7.04 AND 9.05 OF THE WSDOT STANDARD SPECIFICATION FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, LATEST VERSION. SUCH MATERIALS INCLUDE THE FOLLOWING: LINED CORRUGATED POLYETHYLENE PIPE (LOPE), ALUMINIZED TYPE 2 CORRUGATED STEEL PIPE AND PIPE ARCH (MEETS AASHTO DESIGNATIONS M274 AND M36), CORRUGATED OR SPIRAL RIB ALUMINUM PIPE, OR REINFORCED CONCRETE PIPE. CORRUGATED STEEL PIPE IS NOT ALLOWED.
 - FOOTING DRAINS SHALL NOT BE CONNECTED TO THE DETENTION SYSTEM.

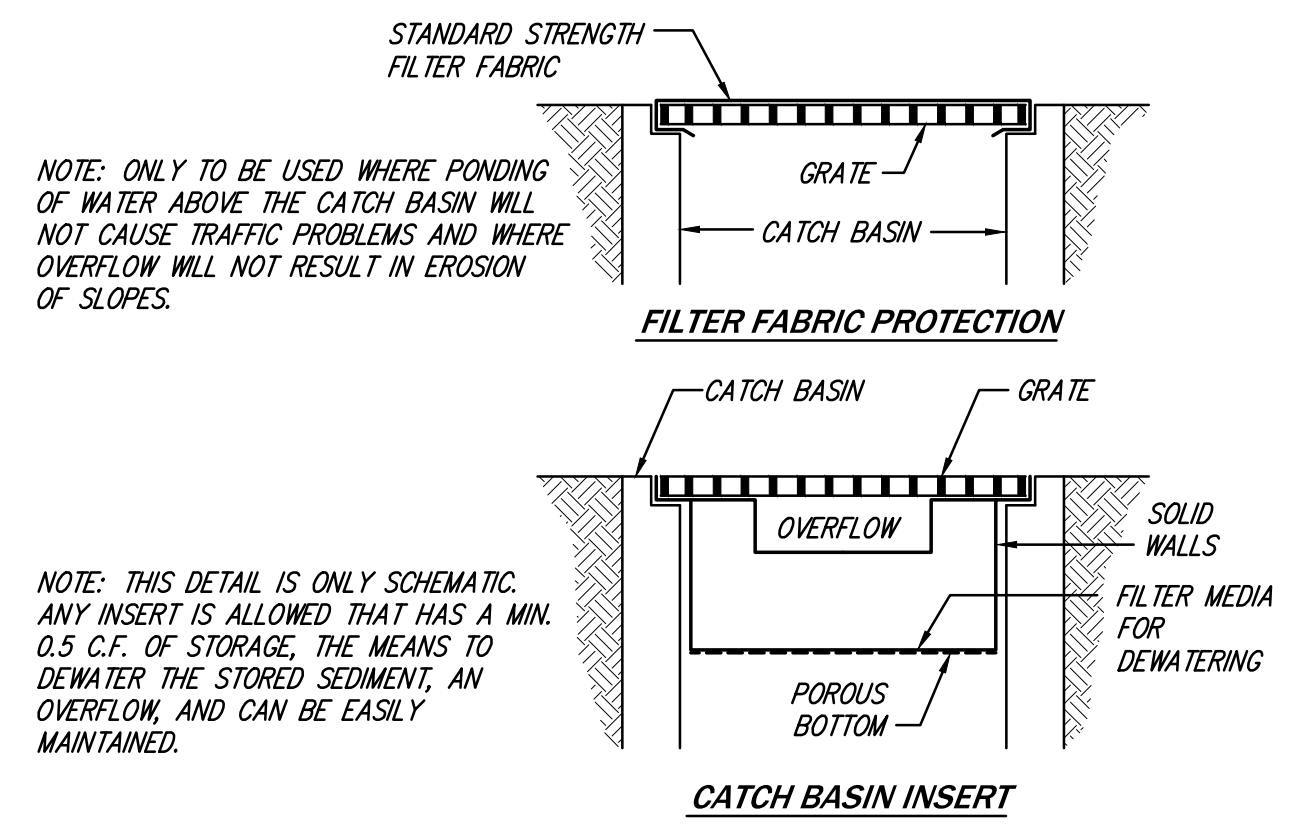
- CONTROL STRUCTURE NOTES:**
- USE A MINIMUM OF A 54 IN. DIAM. TYPE 2 CATCH BASIN. THE ACTUAL SIZE IS DEPENDENT ON CONNECTING PIPE MATERIAL AND DIAMETER.
 - OUTLET PIPE: MIN. 6 INCH.
 - METAL PARTS: CORROSION RESISTANT, NON-GALVANIZED PARTS PREFERRED. GALVANIZED PIPE PARTS TO HAVE ASPHALT TREATMENT 1.
 - FRAME AND LADDER OR STEPS OFFSET SO:
 - A. CLEANOUT GATE IS VISIBLE FROM TOP;
 - B. CLIMB-DOWN SPACE IS CLEAR OF RISER AND CLEANOUT GATE;
 - C. FRAME IS CLEAR OF CURB.
 - IF METAL OUTLET PIPE CONNECTS TO CEMENT CONCRETE PIPE, OUTLET PIPE TO HAVE SMOOTH O.D. EQUAL TO CONCRETE PIPE I.D. LESS 1/4 IN.
 - PROVIDE AT LEAST ONE 3 X 0.690 GAUGE SUPPORT BRACKET ANCHORED TO CONCRETE WALL WITH 5/8 IN. STAINLESS STEEL EXPANSION BOLTS OR EMBEDDED SUPPORTS 2 IN. INTO CATCH BASIN WALL (MAXIMUM 3'-0\"/>

(SEE BMP 15.13 POST CONSTRUCTION SOIL QUALITY AND DEPTH IN THE 2014 DOE MANUAL FOR THE FULL DESIGN REQUIREMENT)

SOIL RETENTION:
RETAIN, IN AN UNDISTURBED STATE, THE DUFF LAYER AND NATIVE TOPSOIL TO THE MAXIMUM EXTENT PRACTICABLE. IN ANY AREAS REQUIRING GRADING REMOVE AND STOCKPILE THE DUFF LAYER AND TOPSOIL ON SITE IN A DESIGNATED, CONTROLLED AREA, NOT ADJACENT TO PUBLIC LAWYERES AND CRITICAL AREAS, TO BE REAPPLIED TO OTHER PORTIONS OF THE SITE WHERE FEASIBLE.

SOIL QUALITY:
ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING:

- A TOPSOIL LAYER WITH A MINIMUM ORGANIC MATTER CONTENT OF 10% DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT IN TURF AREAS, AND A PH FROM 6.0 TO 8.0 OR MATCHING THE PH OF THE UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA. SUBSOILS BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.
- MULCH PLANTING BEDS WITH 2 INCHES OF ORGANIC MATERIAL.
- USE COMPOST AND OTHER MATERIALS THAT MEET THESE ORGANIC CONTENT REQUIREMENTS:
 - a. THE ORGANIC CONTENT FOR "PRE-APPROVED" AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE COMPOST SPECIFICATION FOR BIORETENTION (BMP 17.30), WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35% BIOSOLIDS OR MANURE. THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 40% TO 65%, AND A CARBON TO NITROGEN RATIO BELOW 25:1. THE CARBON TO NITROGEN RATIO MAY BE AS HIGH AS 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION.
 - b. CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIAL MEETING (A.) ABOVE; OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND NOT EXCEEDING THE CONTAMINANT LIMITS IDENTIFIED IN TABLE 220-B, TESTING PARAMETERS, IN WAC 173-350-220.



- MANTENANCE STANDARDS**
- ANY ACCUMULATED SEDIMENT ON OR AROUND THE FILTER FABRIC PROTECTION SHALL BE REMOVED IMMEDIATELY. SEDIMENT SHALL NOT BE REMOVED WITH WATER, AND ALL SEDIMENT MUST BE DISPOSED OF AS FILL ON-SITE OR HAULED OFF-SITE.
 - ANY SEDIMENT IN THE CATCH BASIN INSERT SHALL BE REMOVED WHEN THE SEDIMENT HAS FILLED ONE-THIRD OF THE AVAILABLE STORAGE. THE FILTER MEDIA FOR THE INSERT SHALL BE CLEANED OR REPLACED AT LEAST MONTHLY.
 - REGULAR MAINTENANCE IS CRITICAL FOR BOTH FORMS OF CATCH BASIN PROTECTION. UNLIKE MANY FORMS OF PROTECTION THAT FAIL GRADUALLY, CATCH BASIN PROTECTION WILL FAIL SUDDENLY AND COMPLETELY IF NOT MAINTAINED PROPERLY.

FILTER FABRIC PROTECTION FOR CB'S

NO SCALE

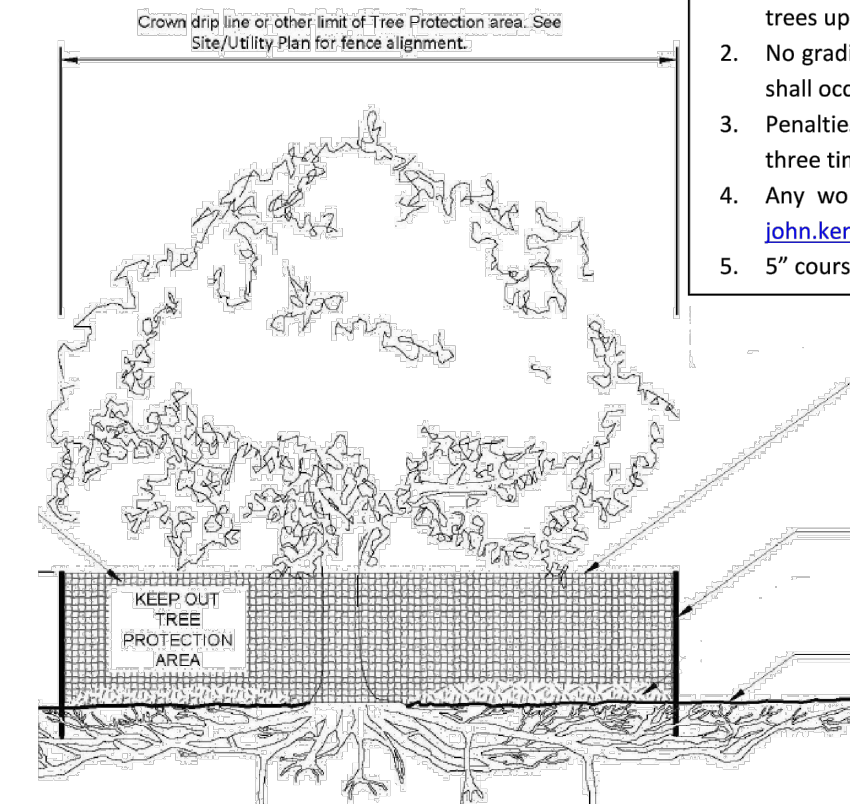
TREE PROTECTION AREA (TPZ)

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:

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



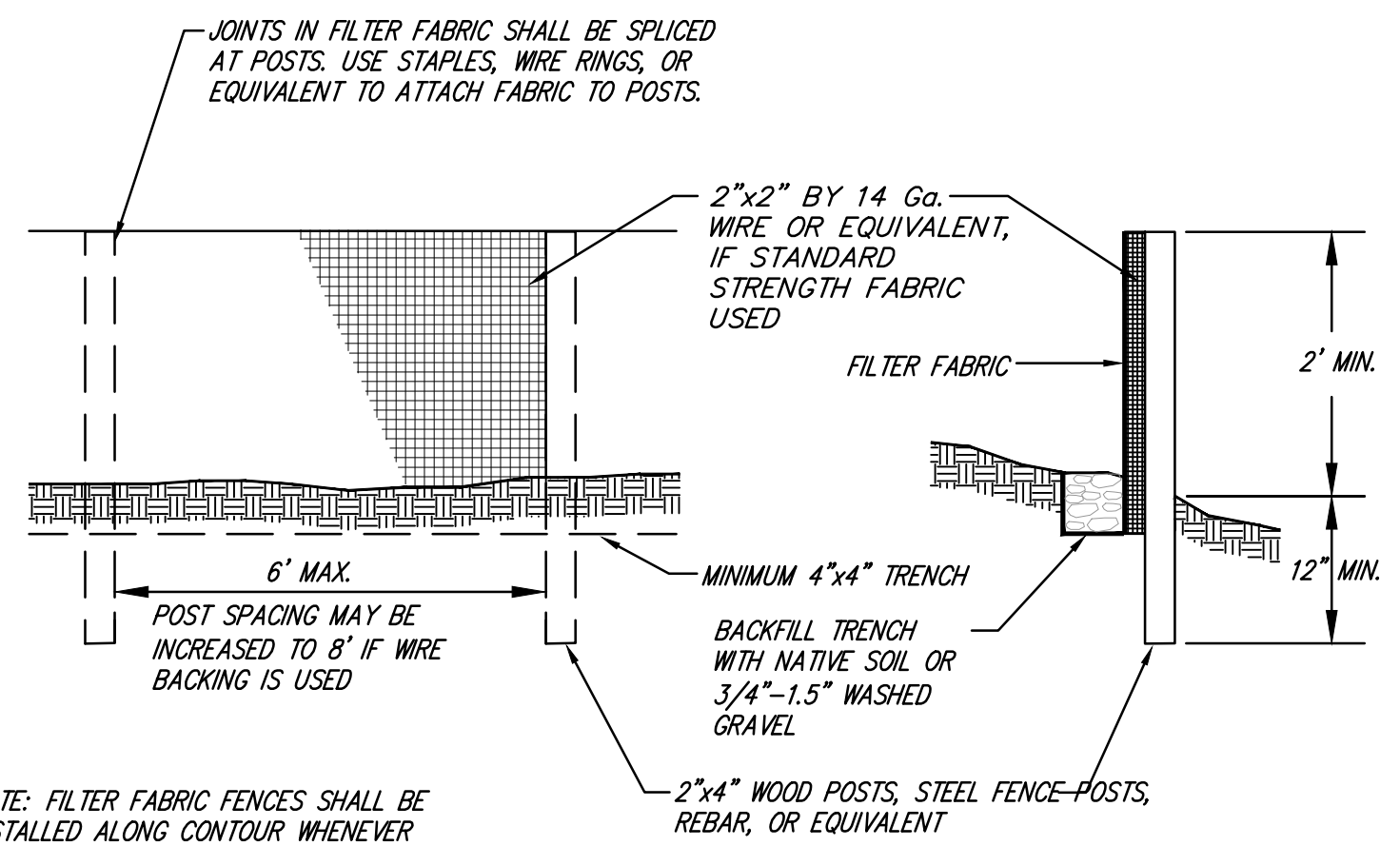
- Notes**
- No pruning shall be performed unless under the direction of the Project Arborist. Including limbing trees up.
 - No grading, excavation, storage (materials, equipment, vehicles, etc.), or other unpermitted activity shall occur inside the protective fencing.
 - Penalties for damaging by root 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).
 - Any work in approved TPZ must be with the permission of the City Arborist (206) 275-7713, john.kennedy@mercergov.org.
 - 5" course woodchips within the tree protection zone, but not against the tree trunk.

Tree protection fence: 4-6" chain link fence, solidly anchored into the ground, or if authorized High-density polyethylene fencing with 3.5" x 1.5" openings; color orange. Steel posts installed at 8' o.c.

2" x 6" steel posts or approved equal

Maintain existing grade with the tree protection fence unless otherwise indication on the plans

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



NOTE: FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE

FILTER FABRIC FENCE DETAIL

NO SCALE

UNDERGROUND LOCATOR SERVICE
CALL BEFORE YOU DIG!
1-800-424-5555

DATE	APRIL 2023 (1ST SUB)	DESIGNED	SHERI H. MURATA, P.E.
DESIGNED	SHERI H. MURATA, P.E.	DRAWN	JOCELYN R. CASEMANS
APPROVED	SHERI H. MURATA, P.E.	PROJECT MANAGER	SHERI H. MURATA, P.E.

PROJECT NUMBER **22293**

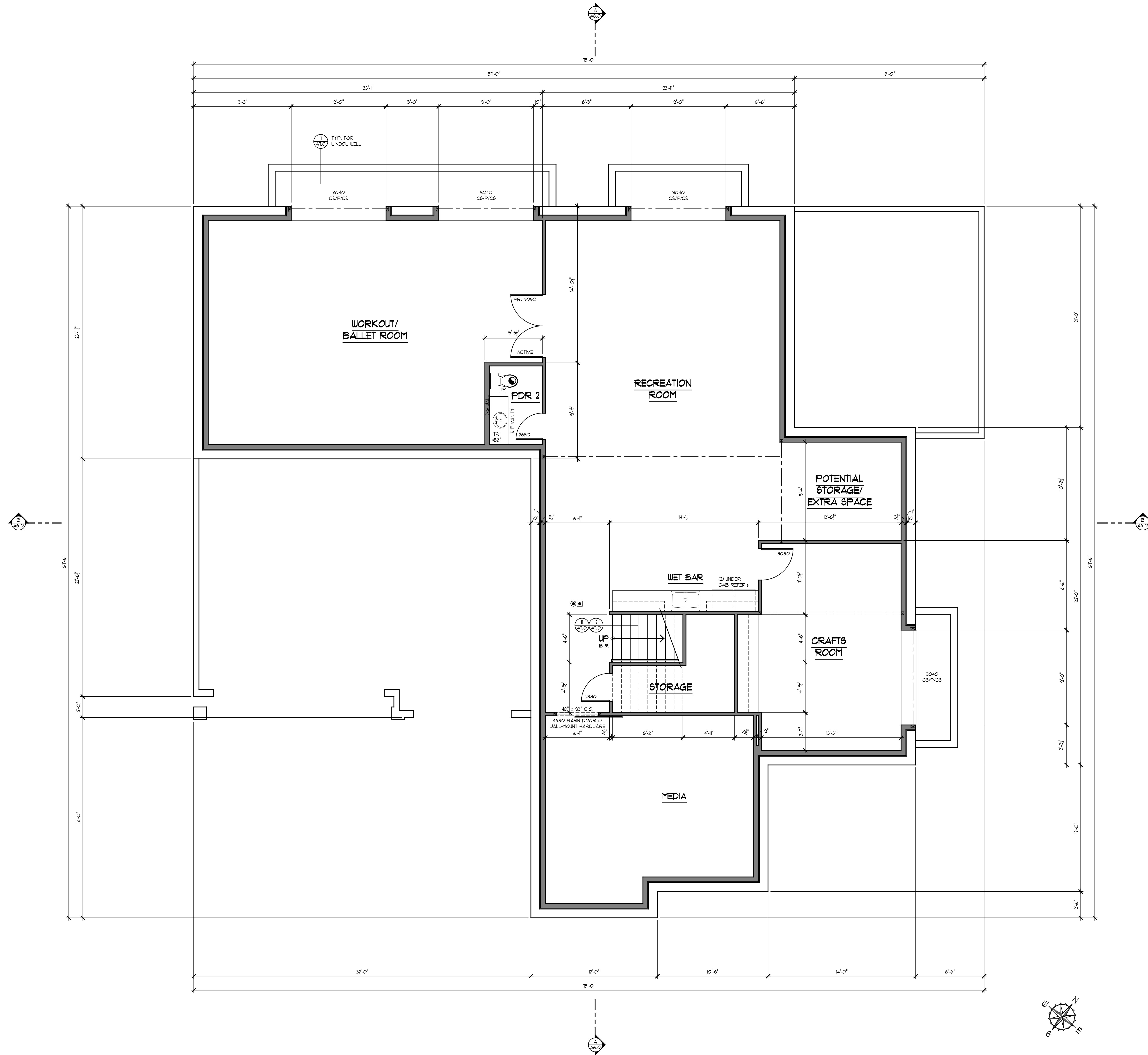
DATE: APRIL 2023 (1ST SUB)
SHEET: 3 OF 3

CIVIL ENGINEERING
LANDSCAPE ARCHITECTURE
PLANNING
SURVEYING

CORE DESIGN

12100 NE 195th St, Suite 300, Bothell, Washington 98011 425.885.7877

TCHC, LLC. (BDA: BDR CUSTOM)
P.O. BOX 50208
BELLEVUE, WA 98015



LOWER FLOOR PLAN

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

SYMBOL LEGEND	
	MIN 80 CFM FAN, VENT TO OUTSIDE
	INTERMITTENT (SHOULDER HOUR) FAN - SEE SHEET A0.0 FOR SIZE AND RUN TIME
	SMOKE DETECTOR, INTERCONNECTED & HARD WIRED w/ BATTERY BACKUP
	CARBON MONOXIDE COMBO DETECTOR, INTERCONNECTED & HARD WIRED w/ BATTERY BACKUP
	VENEER SIDING, SEE ELEVATIONS

FLOOR PLAN NOTES	
1.	LOWER & MAIN FLOOR PLATE HEIGHTS AT 10'-0", U.N.O.
2.	UPPER FLOOR PLATE HEIGHT AT 9'-0", U.N.O.
3.	ALL EXTERIOR WALLS ARE 2x6 AT 16" OC U.N.O.
4.	ALL INTERIOR WALLS ARE 2x4 AT 16" OC U.N.O.
5.	ALL HEADERS ARE 8" x 12" U.N.O. VERIFY w/ ELEV'S.
6.	ALL STAIRS TO HAVE UNIFORM RISERS.
7.	GLASS ENCLOSURE DOORS TO BE LABELED CATEGORY II
8.	PROVIDE W.R. BACKER BOARD AT TUBS/SHWRS TO 10" A.F.F.
9.	VERIFY ALL WINDOW SIZES & PATTERNS WITH BUILDER
10.	SEE COVER SHEET FOR ENERGY SPECIFICATIONS & VENTILATION REQUIREMENTS
11.	ENTRY DOOR FROM GARAGE TO BE 20 MIN RATED SOLID CORE

REVISIONS		
NO.	DATE	DESCRIPTION

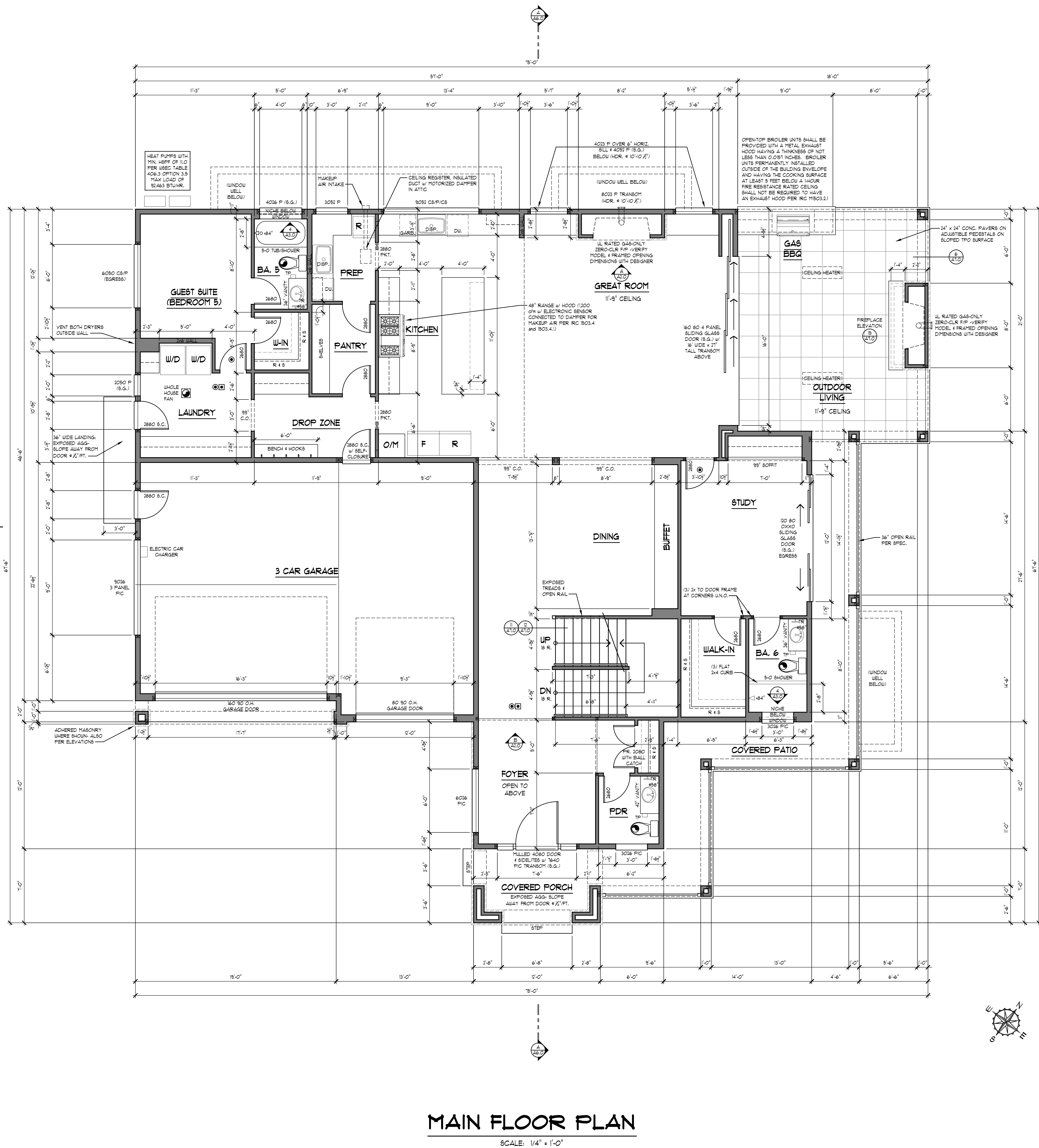
TCHC, LLC (DBA: BDR Custom)
P.O. Box 50088
Raleigh, NC 27605
(422) 889-5400

GRANBOIS RESIDENCE
8440 SE 82nd St, Mercer Island

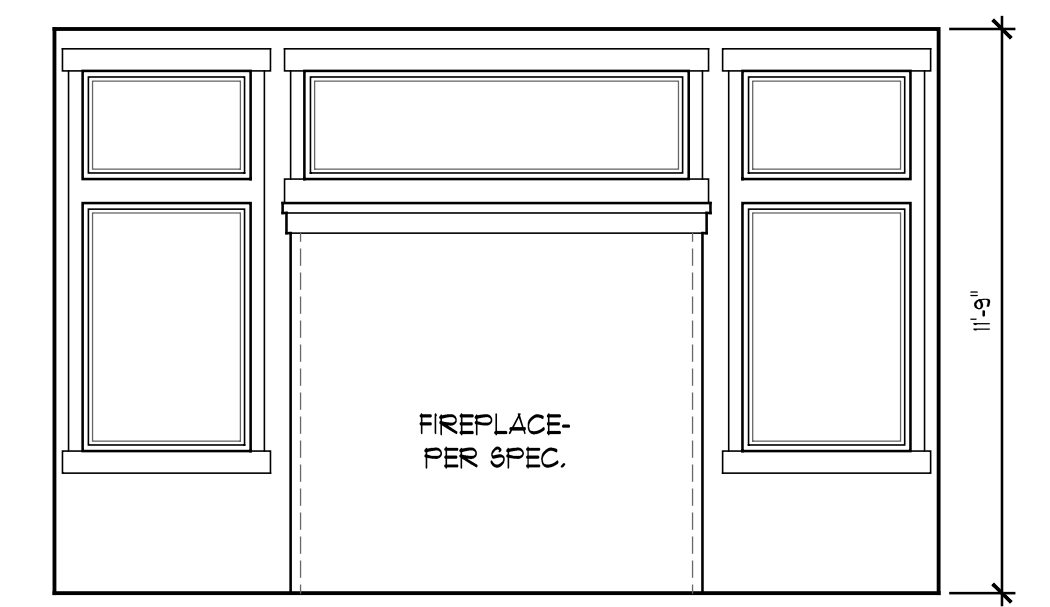
LOWER FLOOR PLAN

DESIGN: JMD
DRAWN: JMD
ISSUE DATE: APR 7 2023
PLAN No:

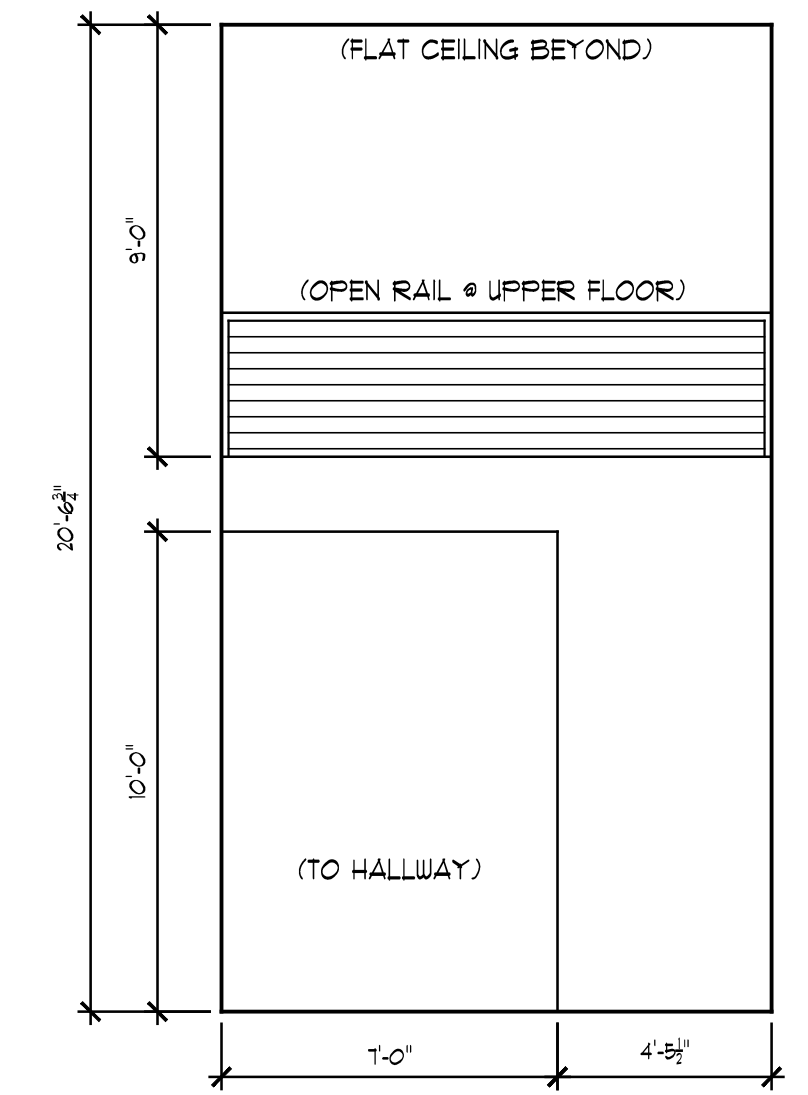
SHEET A1.0



MAIN FLOOR PLAN
SCALE: 1/4" = 1'-0"



A INTERIOR ELEVATION AT GREAT ROOM



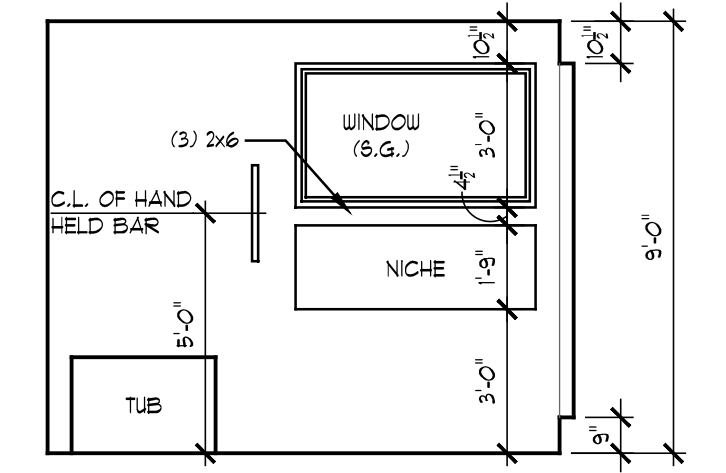
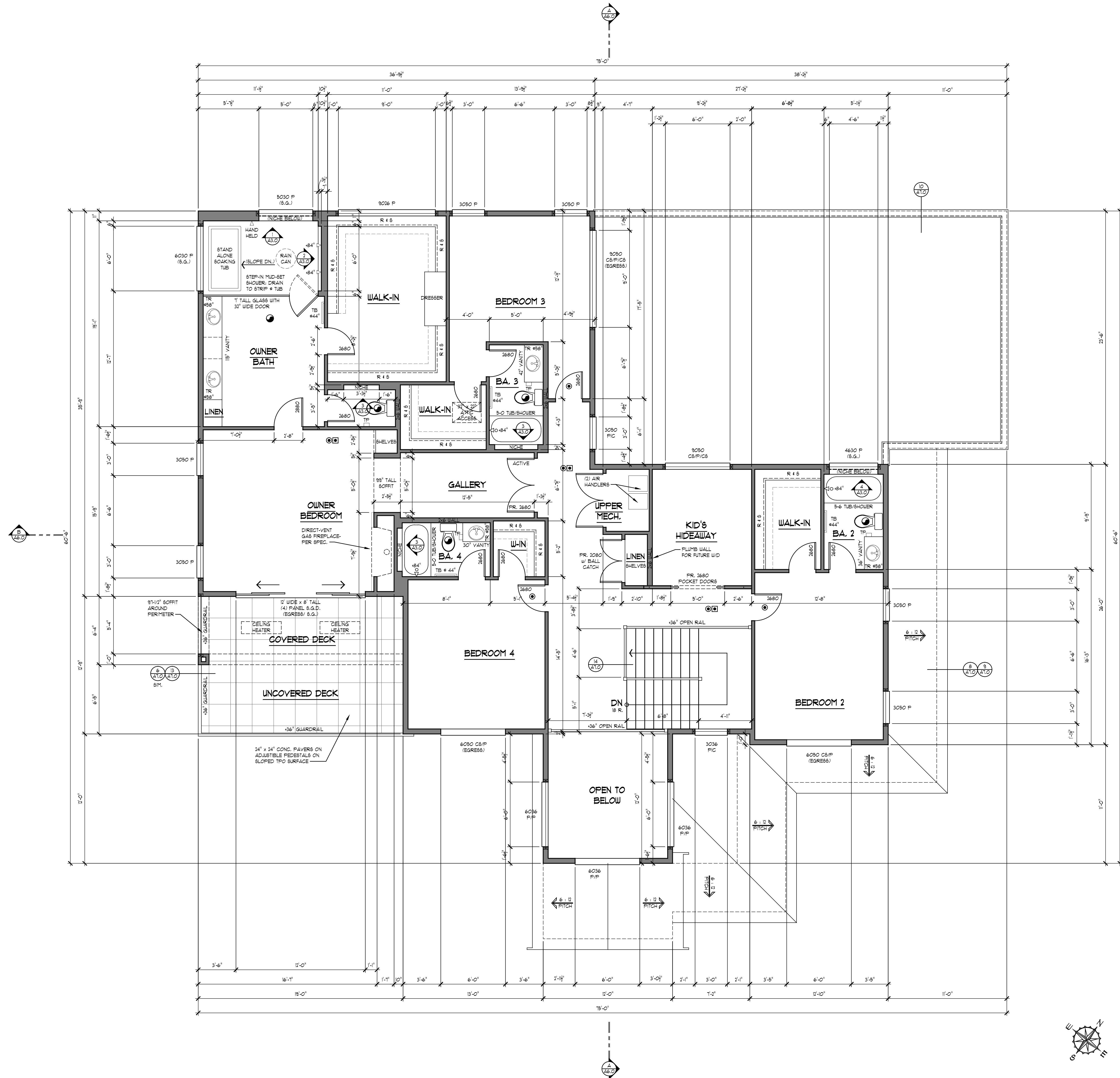
B INTERIOR ELEVATION AT FOYER

AREA SUMMARY	
LOWER FLOOR:	2541 S.F.
MAIN FLOOR:	2388 S.F.
UPPER FLOOR:	2233 S.F.
TOTAL AREA:	7168 S.F.
GARAGE:	148 S.F.
OUTDOOR LIVING:	389 S.F.
OTHER COVERED PORCHES:	488 S.F.

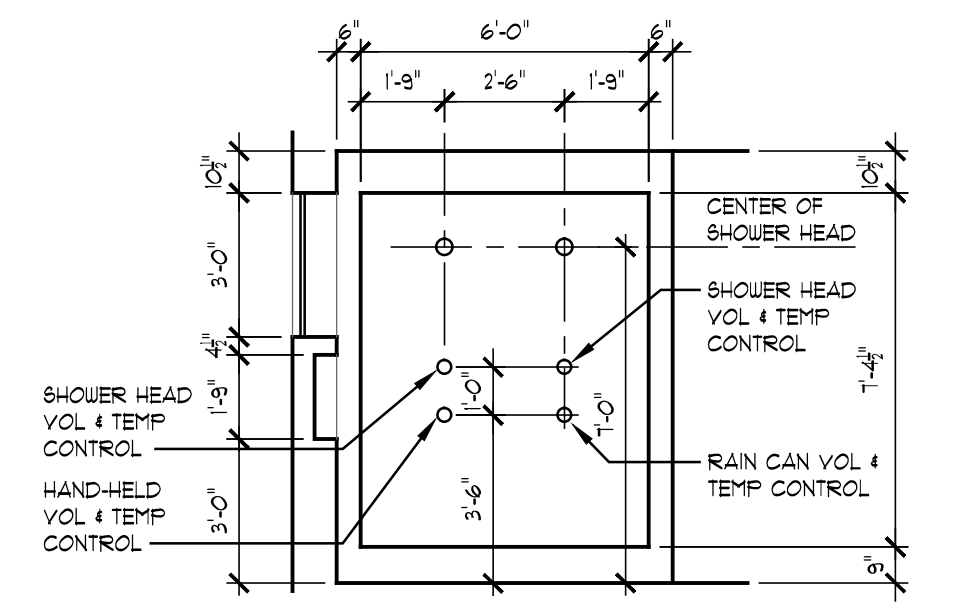
SYMBOL LEGEND	
	MIN 80 CFM FAN, VENT TO OUTSIDE
	INTERMITTENT WHOLE HOUR FAN - SEE SHEET A2.0 FOR SIZE AND RUN TIME
	SMOKE DETECTOR, INTERCONNECTED & HARD WIRED w/ BATTERY BACKUP
	CARBON MONOXIDE COMBO DETECTOR, INTERCONNECTED & HARD WIRED w/ BATTERY BACKUP
	VENTER SIDING, SEE ELEVATIONS

- FLOOR PLAN NOTES**
- LOWER & MAIN FLOOR PLATE HEIGHTS AT 10'-0", U.N.O.
 - UPPER FLOOR PLATE HEIGHT AT 9'-0", U.N.O.
 - ALL EXTERIOR WALLS ARE 2x6 AT 16" OC U.N.O.
 - ALL INTERIOR WALLS ARE 2x4 AT 16" OC U.N.O.
 - ALL HEADERS ARE 8" x 11/2" U.N.O. VERIFY w/ ELEV.
 - ALL STAIRS TO HAVE UNIFORM RISERS.
 - GLASS ENCLOSURE DOORS TO BE LABELED CATEGORY II
 - PROVIDE W.R. BACKER BOARD AT TUBS/BATHS TO 10" A.F.F.
 - VERIFY ALL WINDOW SIZES & PATTERNS WITH BUILDER
 - SEE COVER SHEET FOR ENERGY SPECIFICATIONS & VENTILATION REQUIREMENTS
 - ENTRY DOOR FROM GARAGE TO BE 20 MIN RATED SOLID CORE

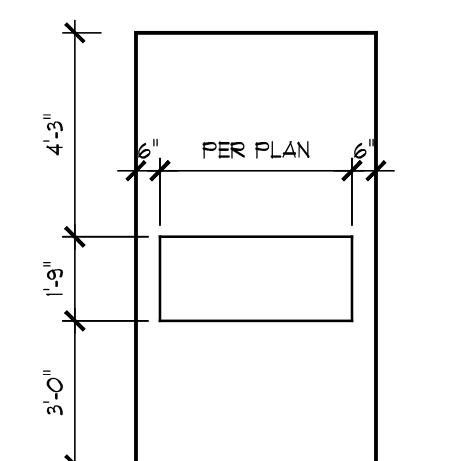
REVISIONS	
NO.	DATE
DESCRIPTION	
TCHC, LLC. (DBA: BDR Custom)	
P.O. Box 50080 Bellevue, WA 98005 (425) 889-5400	
GRANBOIS RESIDENCE	
8440 SE 82nd St, Mercer Island	
MAIN FLOOR PLAN	
DESIGN:	JMD
DRAWN:	JMD
ISSUE DATE:	APR 7 2023
PLAN NO.:	
SHEET A2.0	



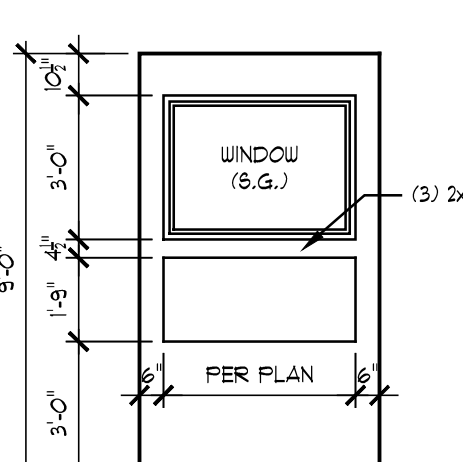
1 OWNER BATH ELEVATION



2 OWNER BATH ELEVATION



3 BATH NICHE DETAIL



4 BATH NICHE DETAIL

SYMBOL LEGEND	
	1/2 HP CFM FAN, VENT TO OUTSIDE
	INTERMITTENT SHOWER FAN - SEE SHEET A3.0 FOR SIZE AND RUN TIME
	SMOKE DETECTOR, INTERCONNECTED & HARD WIRED W/ BATTERY BACKUP
	CARBON MONOXIDE COMB. DETECTOR, INTERCONNECTED & HARD WIRED W/ BATTERY BACKUP
	VENER SIDING, SEE ELEVATIONS

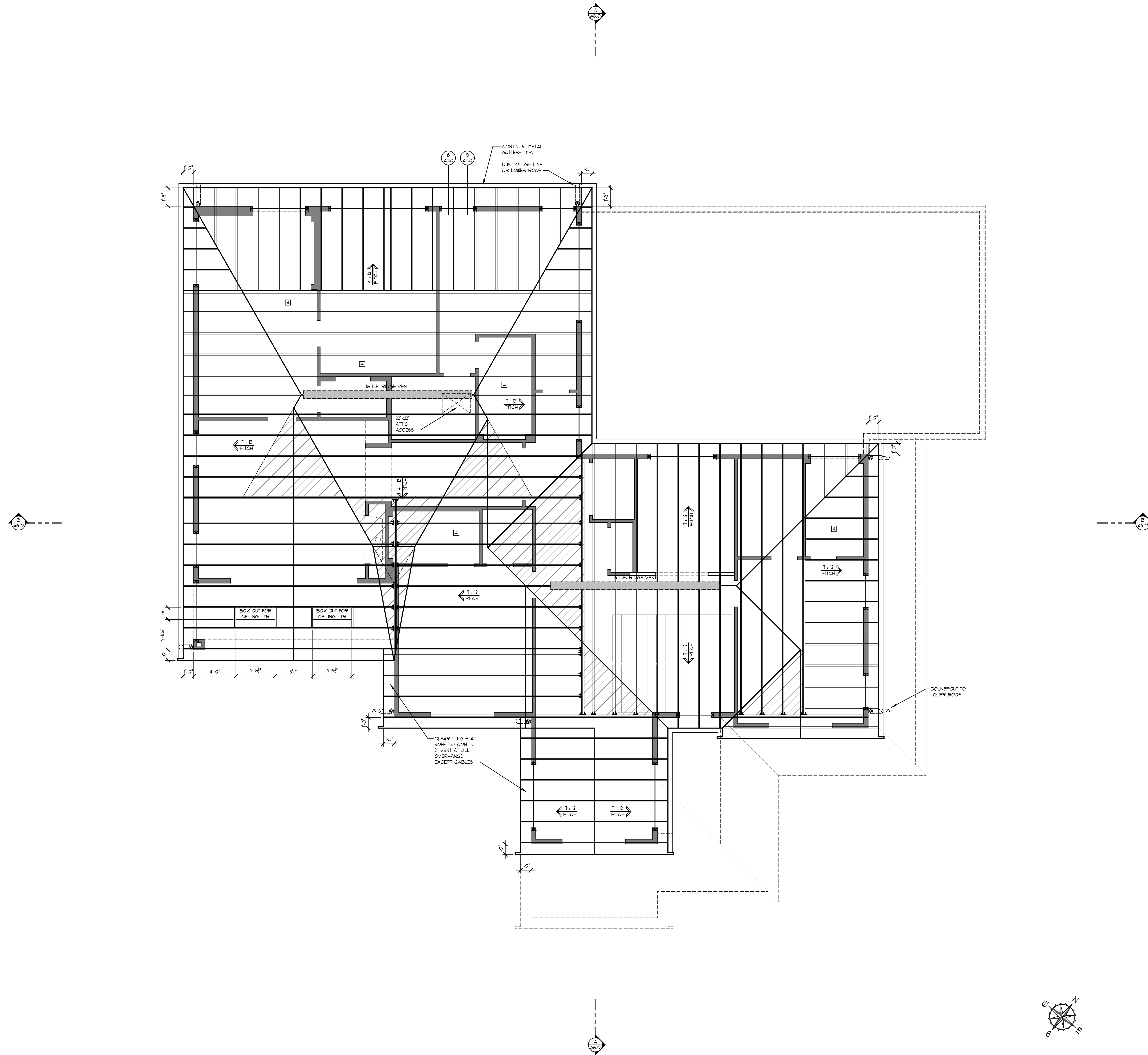
FLOOR PLAN NOTES	
1.	LOWER & MAIN FLOOR PLATE HEIGHTS AT 10'-0", U.N.O.
2.	UPPER FLOOR PLATE HEIGHT AT 9'-0", U.N.O.
3.	ALL EXTERIOR WALLS ARE 2x4 AT 16" OC U.N.O.
4.	ALL INTERIOR WALLS ARE 2x4 AT 16" OC U.N.O.
5.	ALL HEADERS ARE 8" x 1 1/2" U.N.O. VERIFY W/ ELEV.
6.	ALL STAIRS TO HAVE UNIFORM RISERS.
7.	GLASS ENCLOSURE DOORS TO BE LABELED CATEGORY II
8.	PROVIDE W.R. BACKER BOARD AT TUBS/SHWRS TO 10" A.F.F.
9.	VERIFY ALL WINDOW SIZES & PATTERNS WITH BUILDER
10.	SEE COVER SHEET FOR ENERGY SPECIFICATIONS & VENTILATION REQUIREMENTS
11.	ENTRY DOOR FROM GARAGE TO BE 20 MIN RATED SOLID CORE

UPPER FLOOR PLAN

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

TCHC, LLC (DBA: BDR Custom) P.O. Box 50028 Raleigh, NC 27615 (424) 889-5400	REVISIONS NO. DATE DESCRIPTION
	UPPER FLOOR PLAN
DESIGN: JMD DRAWN: JMD ISSUE DATE: APR 7 2023 PLAN NO:	SHEET A3.0

GRANBOIS RESIDENCE
 8440 SE 82nd St, Mercer Island



SEE STRUCTURAL SHEETS
FOR FRAMING LAYOUT,
DETAILS AND HARDWARE

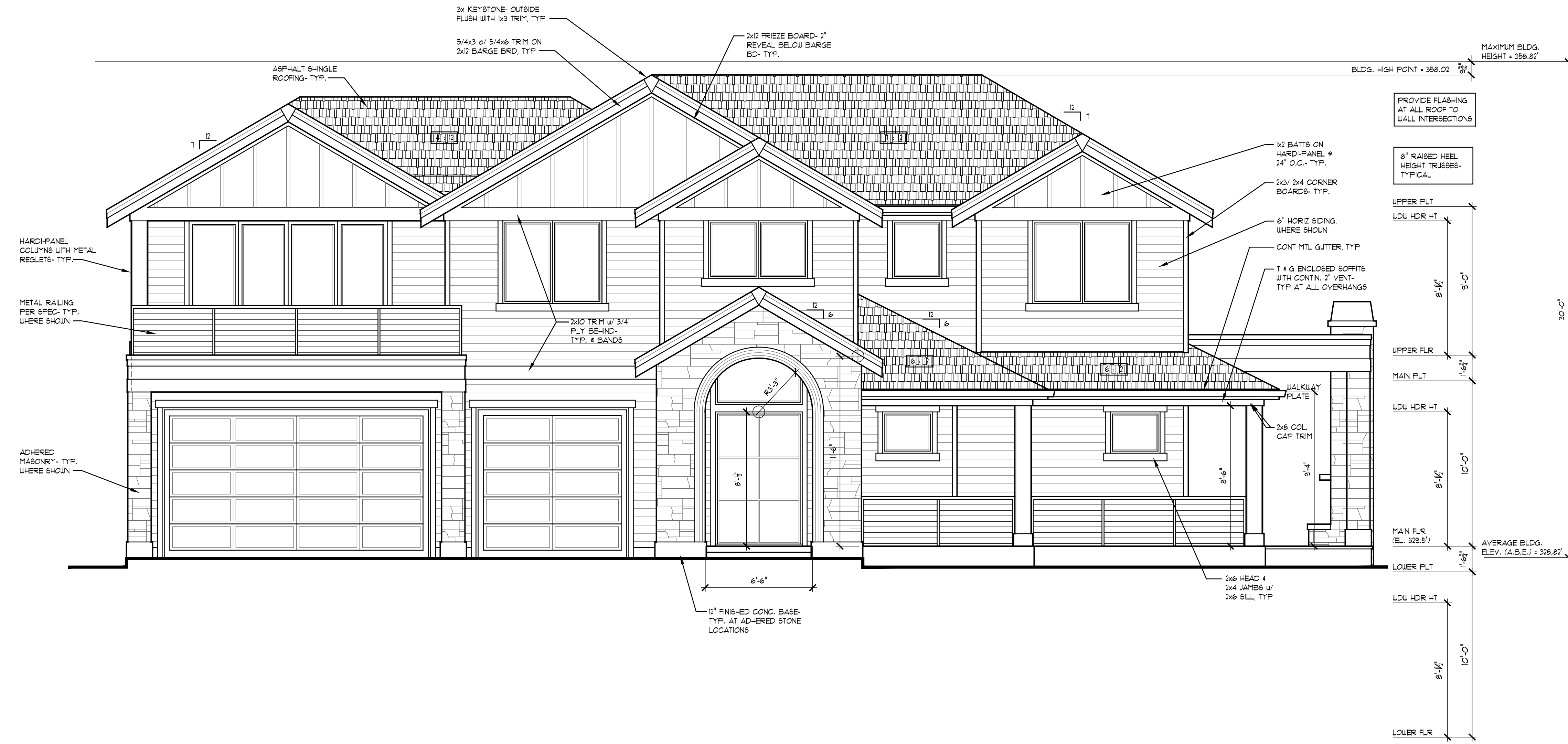
ATTIC VENTILATION	
2378	82. FT. / 300 + 1.83 NET SQ. FT. OF VENTILATION REQUIRED
0	EAVE BLOCK VENTS PROVIDED (.093 SQ. FT. EA) 0 SQ. FT.
82	7\"/>
0	LOW ROOF VENTS WITHIN 36\"/>
32	RIDGE VENTS PROVIDED (.25 SQ. FT. PER L.F.) 4.0 SQ. FT.
0	ROOF VENTS PROVIDED (.50 SQ. FT. EA) 0 SQ. FT.
0	GABLE VENTS PROVIDED (.50 SQ. FT. EA) 0 SQ. FT.
	TOTAL VENTILATION PROVIDED (SEE PLAN FOR LOCATIONS) 8.02 SQ. FT.

SYMBOLS & LEGEND	
	ROOF PITCH INDICATOR, PER PLAN
	DOWNSPOUT LOCATION
	RIDGE VENTING
	4\"/>

ARCHITECTURAL ROOF PLAN

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

ARCHITECTURAL ROOF PLAN	GRANBOIS RESIDENCE 8440 SE 82nd St, Mercer Island		TCHC, LLC (DBA: BDR Custom) P.O. Box 50088 Bellevue, WA 98005 (425) 889-5400	REVISIONS DESCRIPTION
	DESIGN: JMD	DRAWN: JMD	ISSUE DATE: APR 7 2023	PLAN No:
SHEET A4.0				NO. DATE



FRONT (SOUTHEAST) ELEVATION

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



REAR (NORTHWEST) ELEVATION

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

REVISIONS	
NO.	DESCRIPTION

TCHC, LLC (DBA: BDR Custom) P.O. Box 50086 Raleigh, NC 27605 (421) 889-5400	GRANBOIS RESIDENCE 8440 SE 82nd St, Mercer Island
---	---

ELEVATIONS
DESIGN: JMD DRAWN: JMD ISSUE DATE: APR 7 2023 PLAN No:
SHEET A5.0



SIDE (NORTHWEST) ELEVATION

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



SIDE (SOUTHEAST) ELEVATION

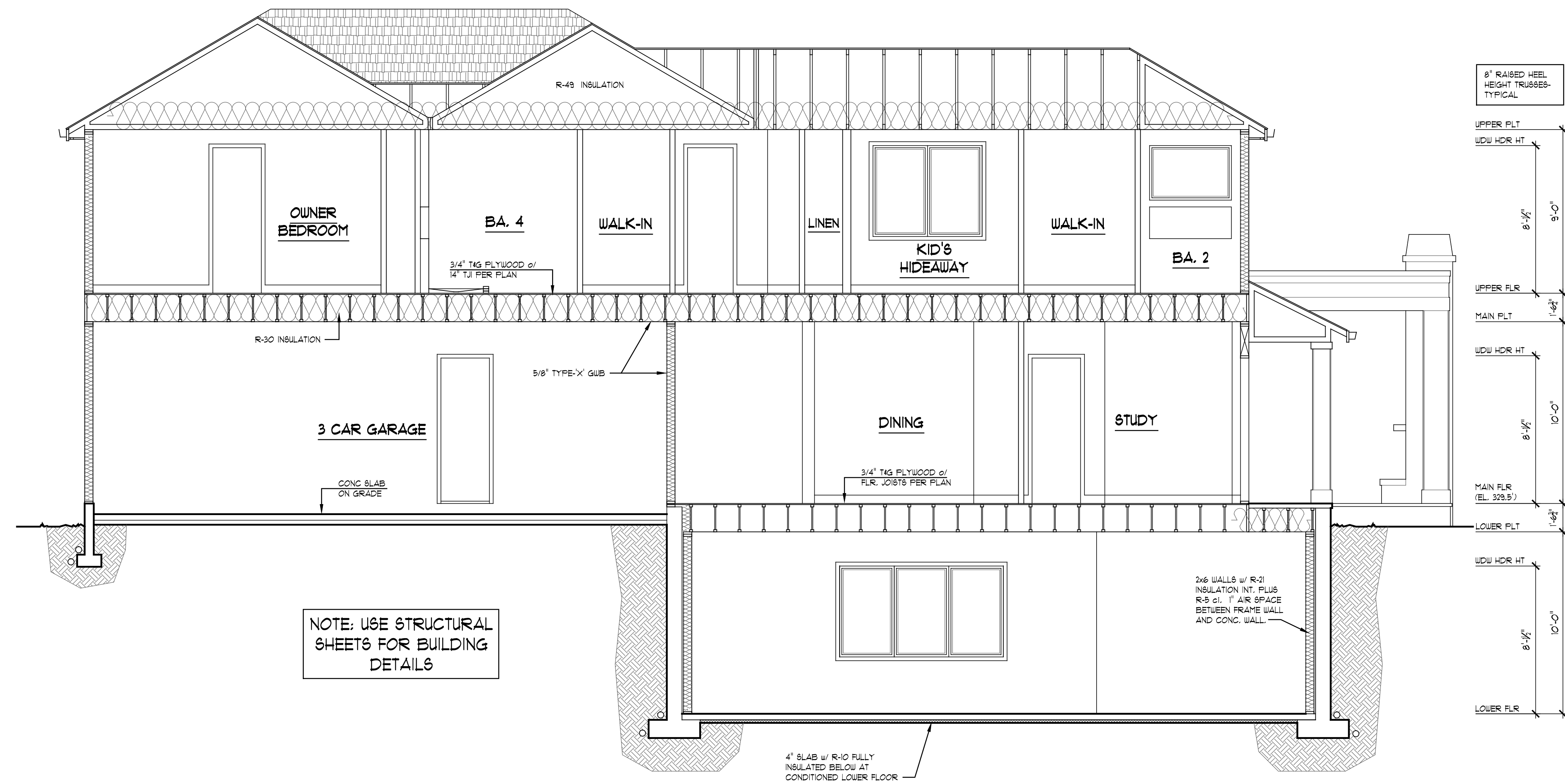
SCALE: 1/4" = 1'-0"

REVISIONS		NO.	DATE	DESCRIPTION
TCHC, LLC (DBA: BDR Custom) P.O. Box 50088 Raleigh, NC 27605 (422) 889-5400				
GRANBOIS RESIDENCE 8440 SE 82nd St, Mercer Island				
ELEVATIONS				
DESIGN: JMD				
DRAWN: JMD				
ISSUE DATE: APR 7 2023				
PLAN No:				
SHEET A5.1				



BUILDING SECTION A-A

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



BUILDING SECTION B-B

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

REVISIONS	
NO.	DESCRIPTION

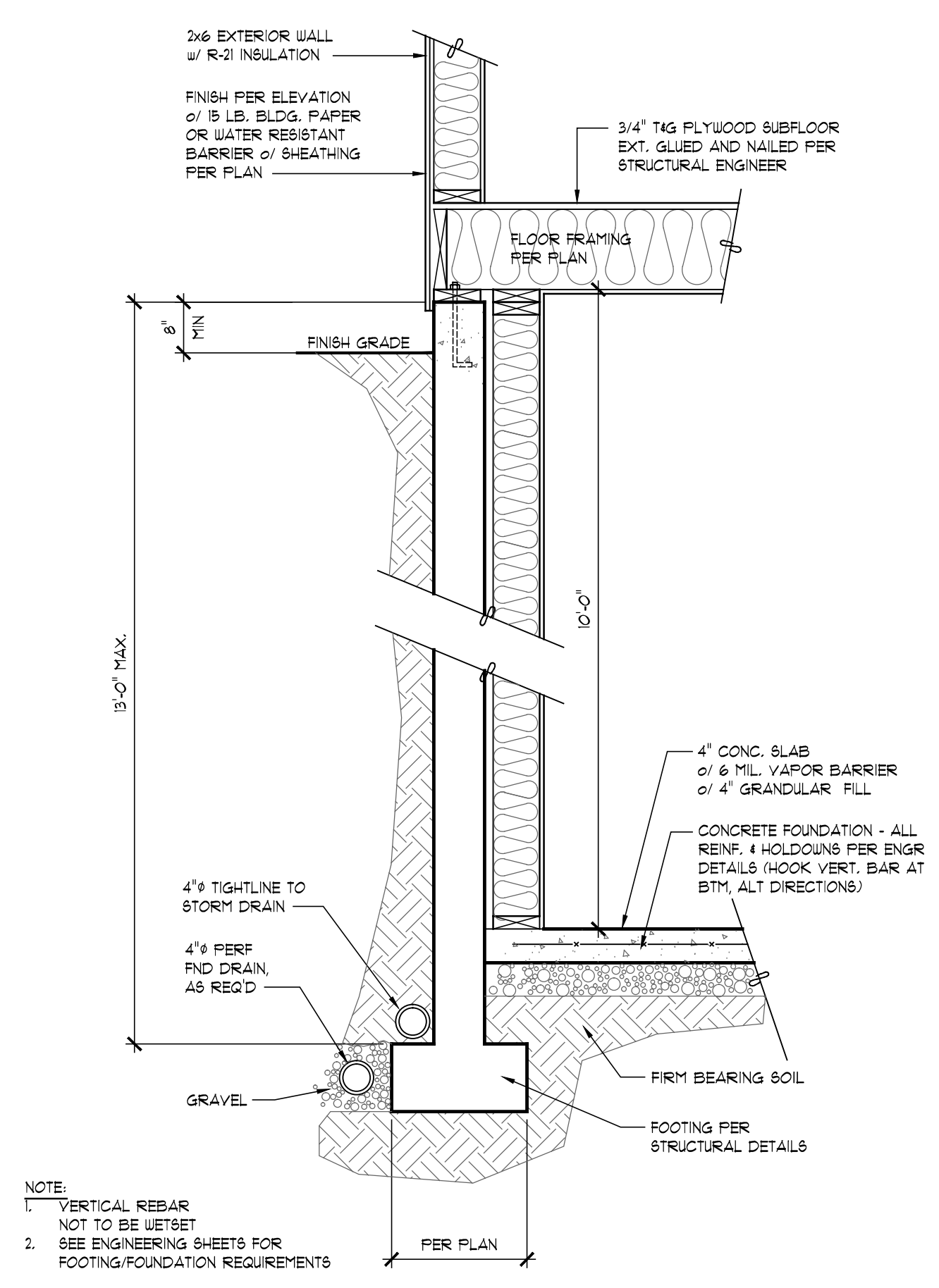
TCHC, LLC. (DBA: BDR Custom)
 P.O. Box 50086
 Bellevue, WA 98005
 (425) 889-5400

GRANBOIS RESIDENCE
 8440 SE 82nd St, Mercer Island

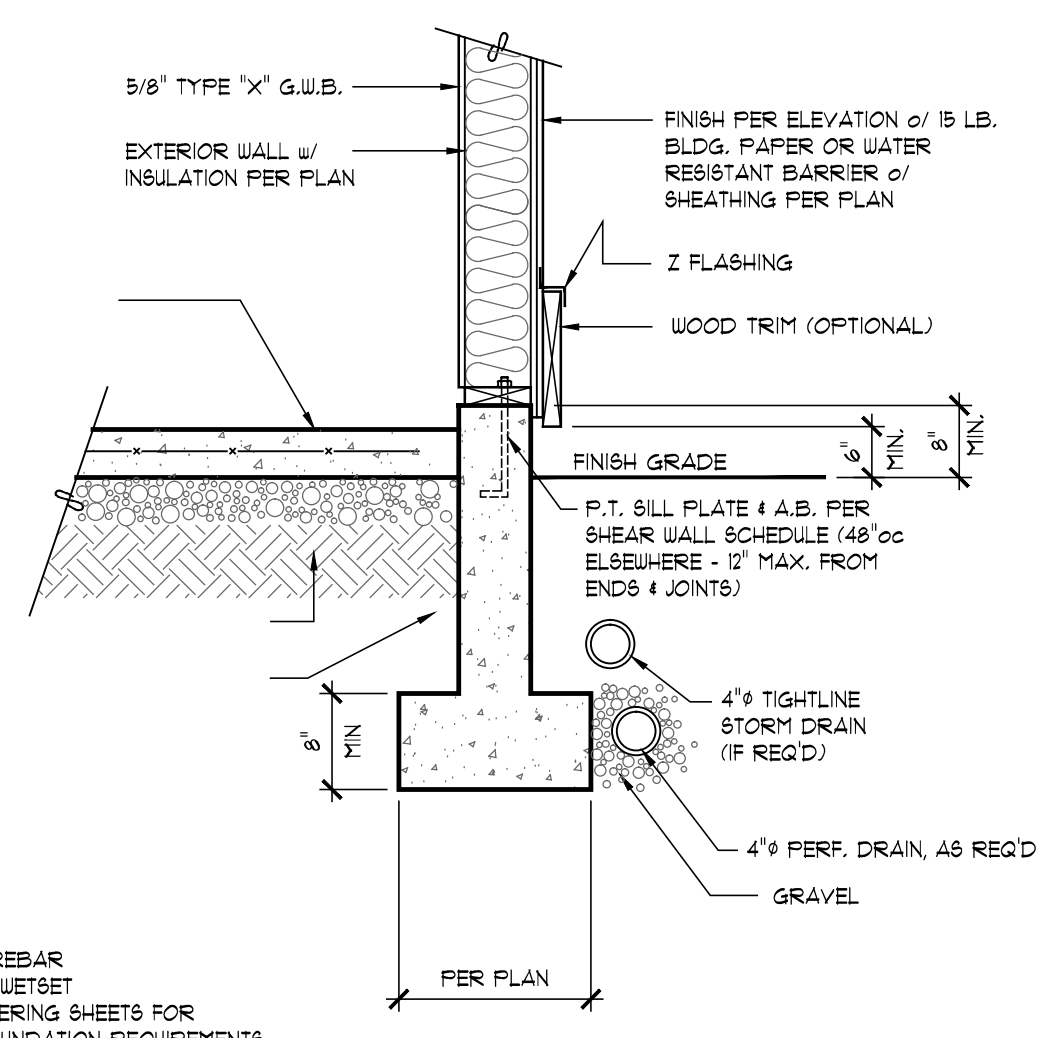
BUILDING SECTION AND DETAILS

DESIGN: JMD
 DRAWN: JMD
 ISSUE DATE: APR 7 2023
 PLAN No:

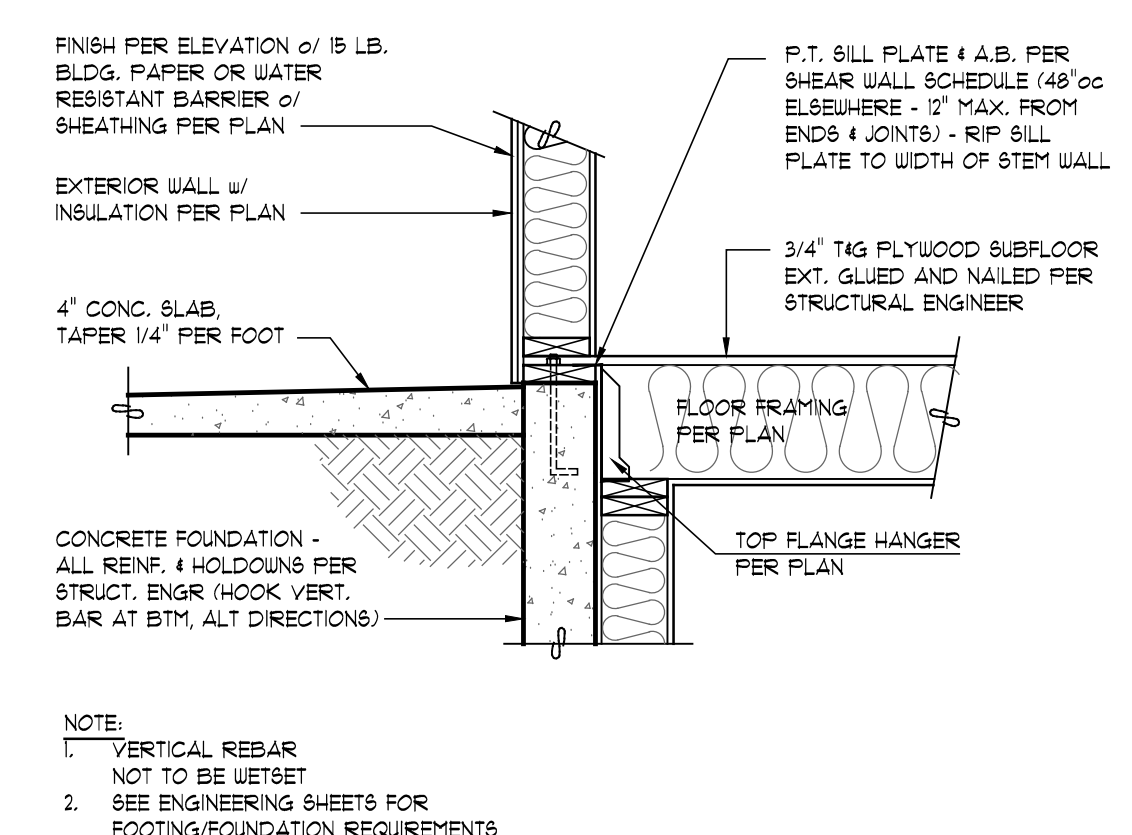
SHEET A6.0



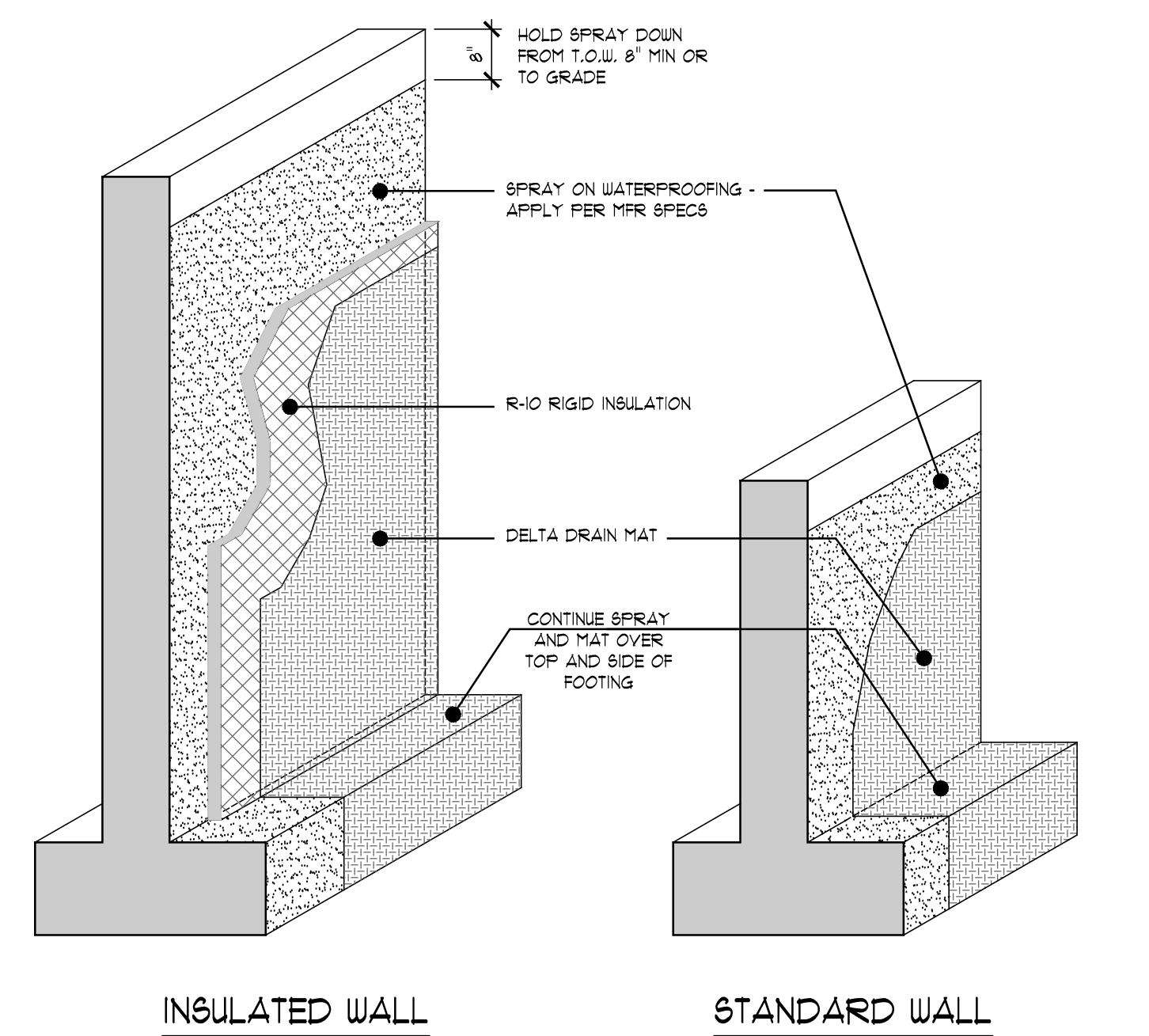
1 TYP. GARAGE FOUNDATION
3/4" x 1'-0"



2 TYPICAL STONE VENEER DETAIL
3/4" x 1'-0"

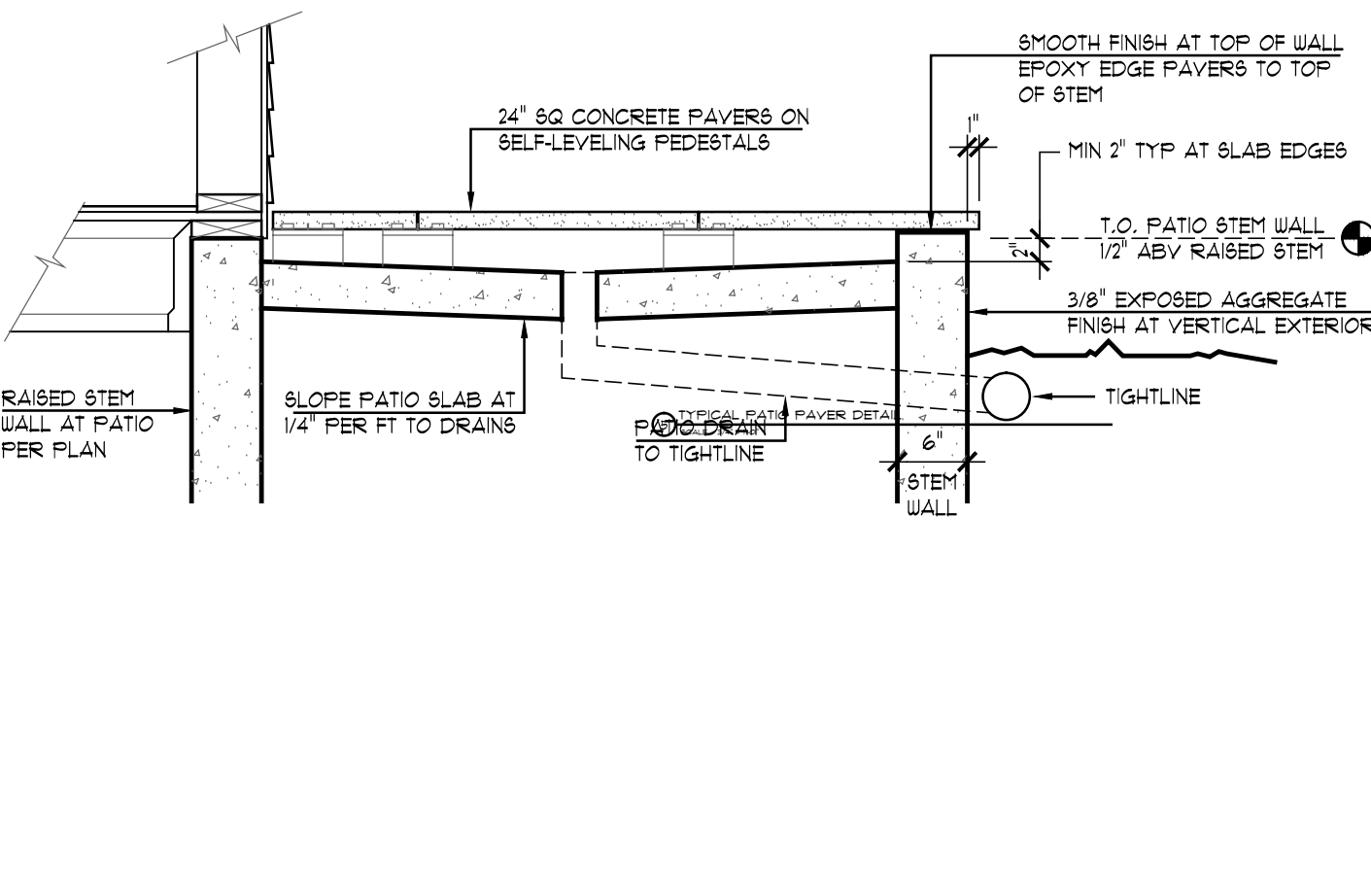


3 GARAGE TO HOME
3/4" x 1'-0"

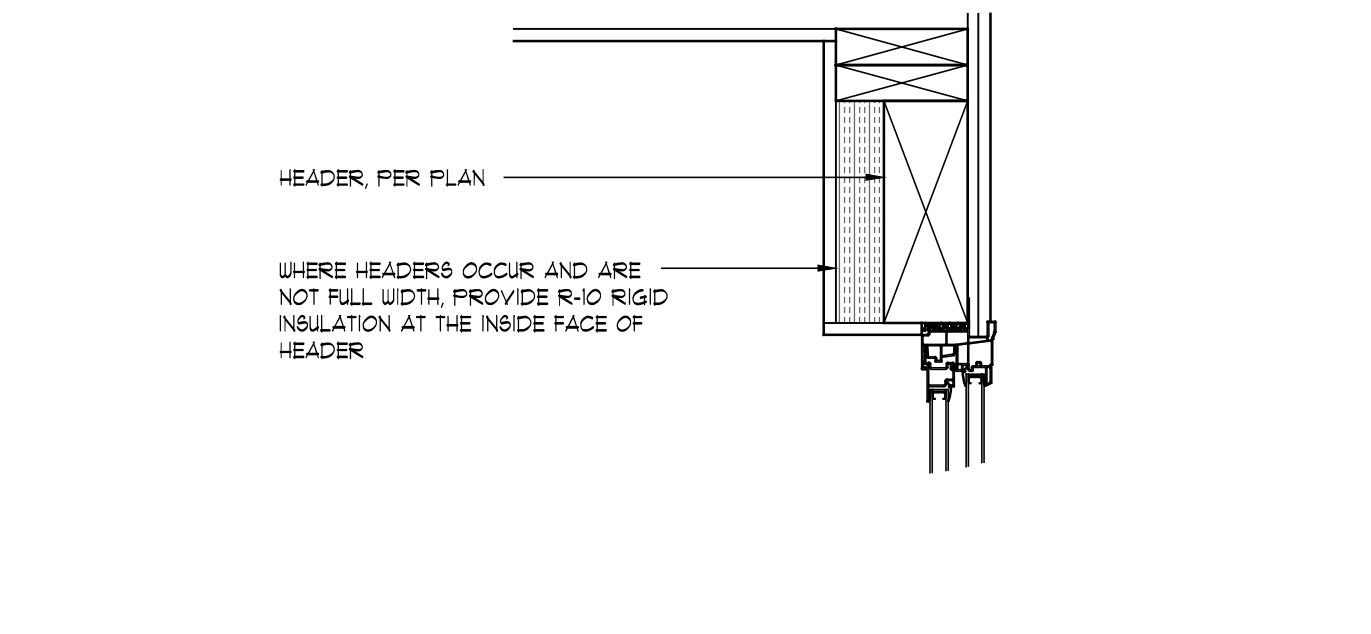


4 FOUNDATION WATERPROOFING
3/4" x 1'-0"

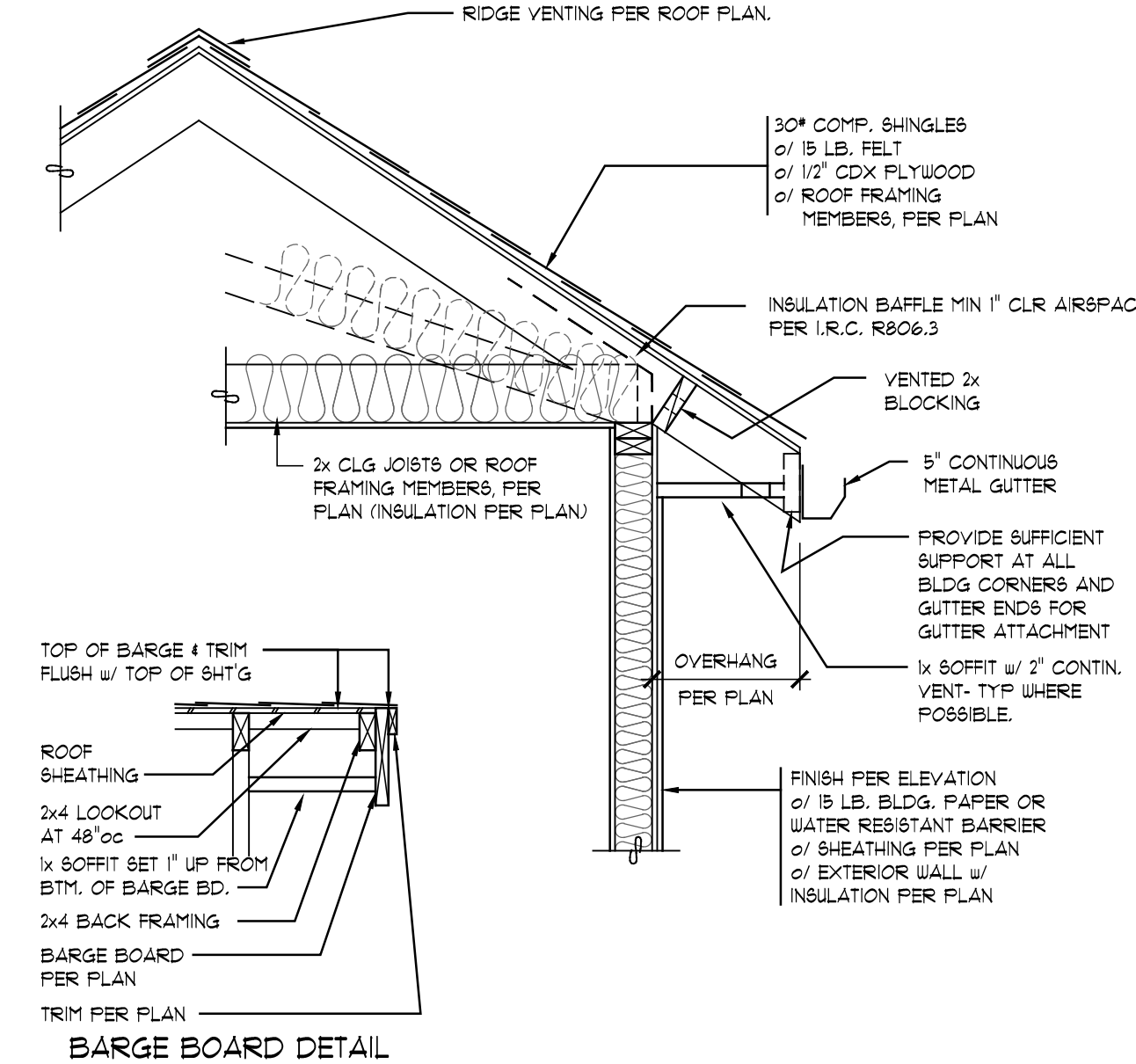
5 PONY WALL/ FOUNDATION
3/4" x 1'-0"



6 TYPICAL WINDOW WELL DETAIL
N/A



7 INSULATED HEADER
N/A



8 TYPICAL ROOF EAVE AND VENTING
3/4" x 1'-0"

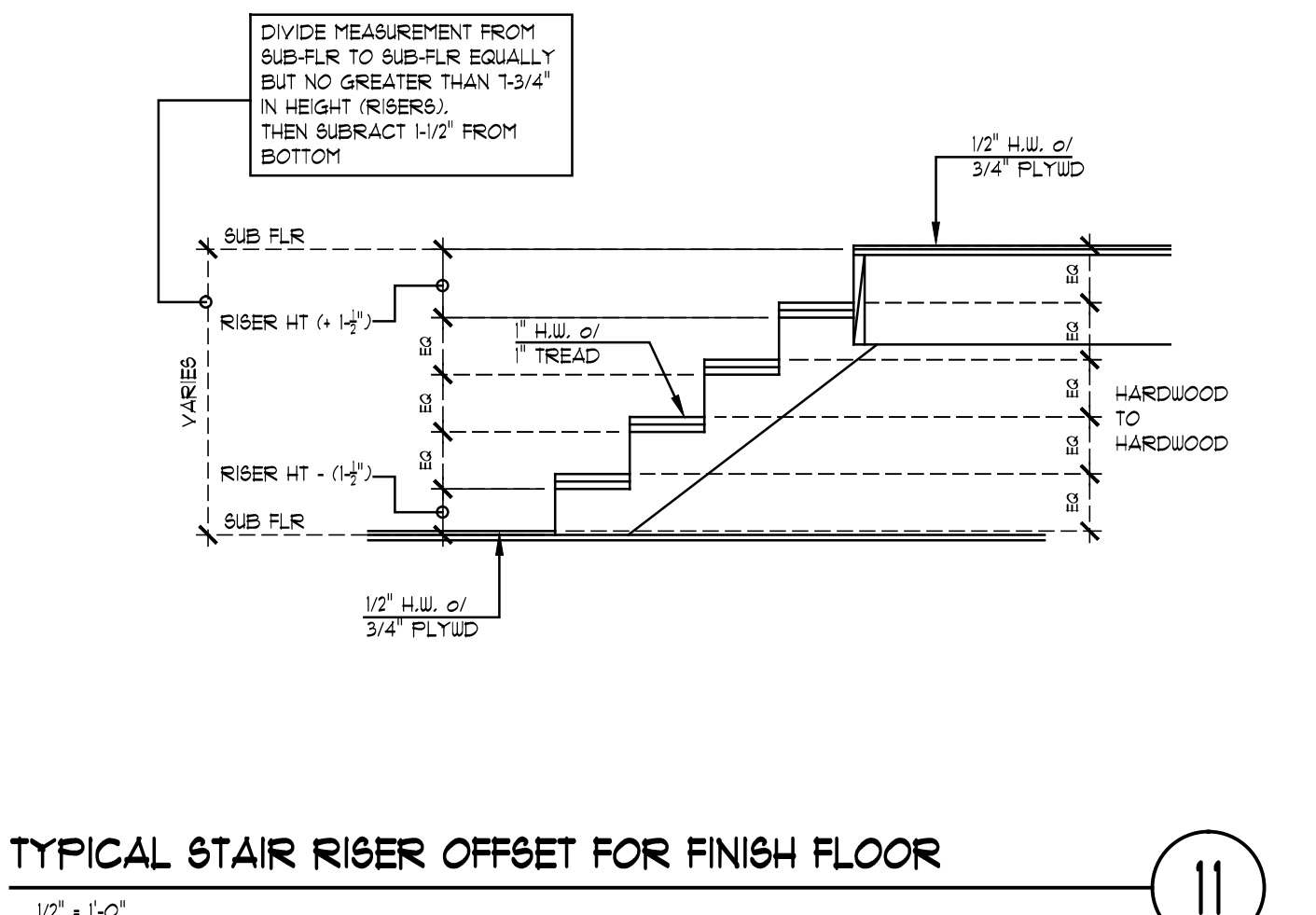
9 TYPICAL DECK PAVES DETAIL
3/4" x 1'-0"

10 TYPICAL WINDOW WELL DETAIL
N/A

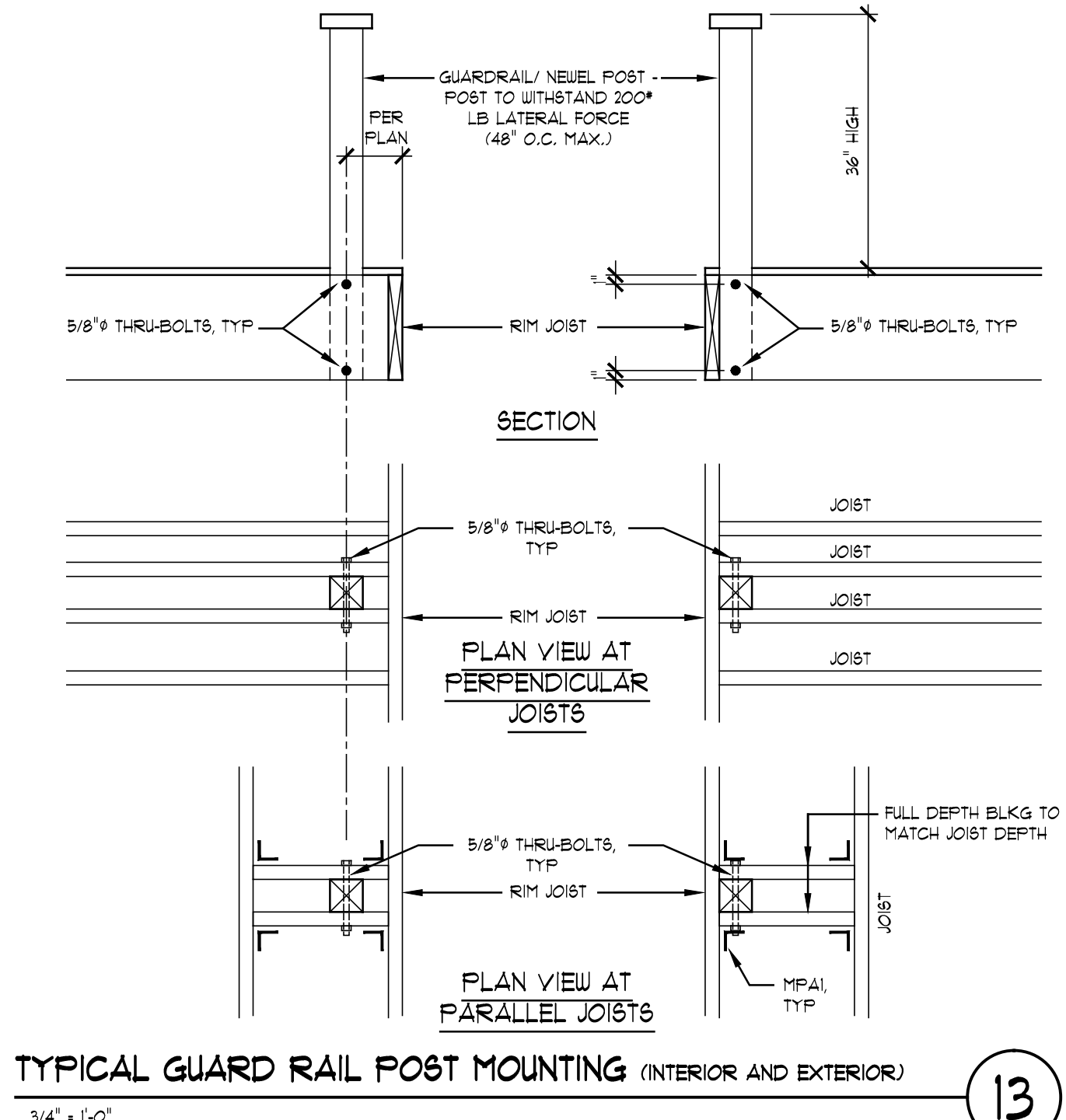
11 INSULATED HEADER
N/A

12 TYPICAL ROOF EAVE AND VENTING
3/4" x 1'-0"

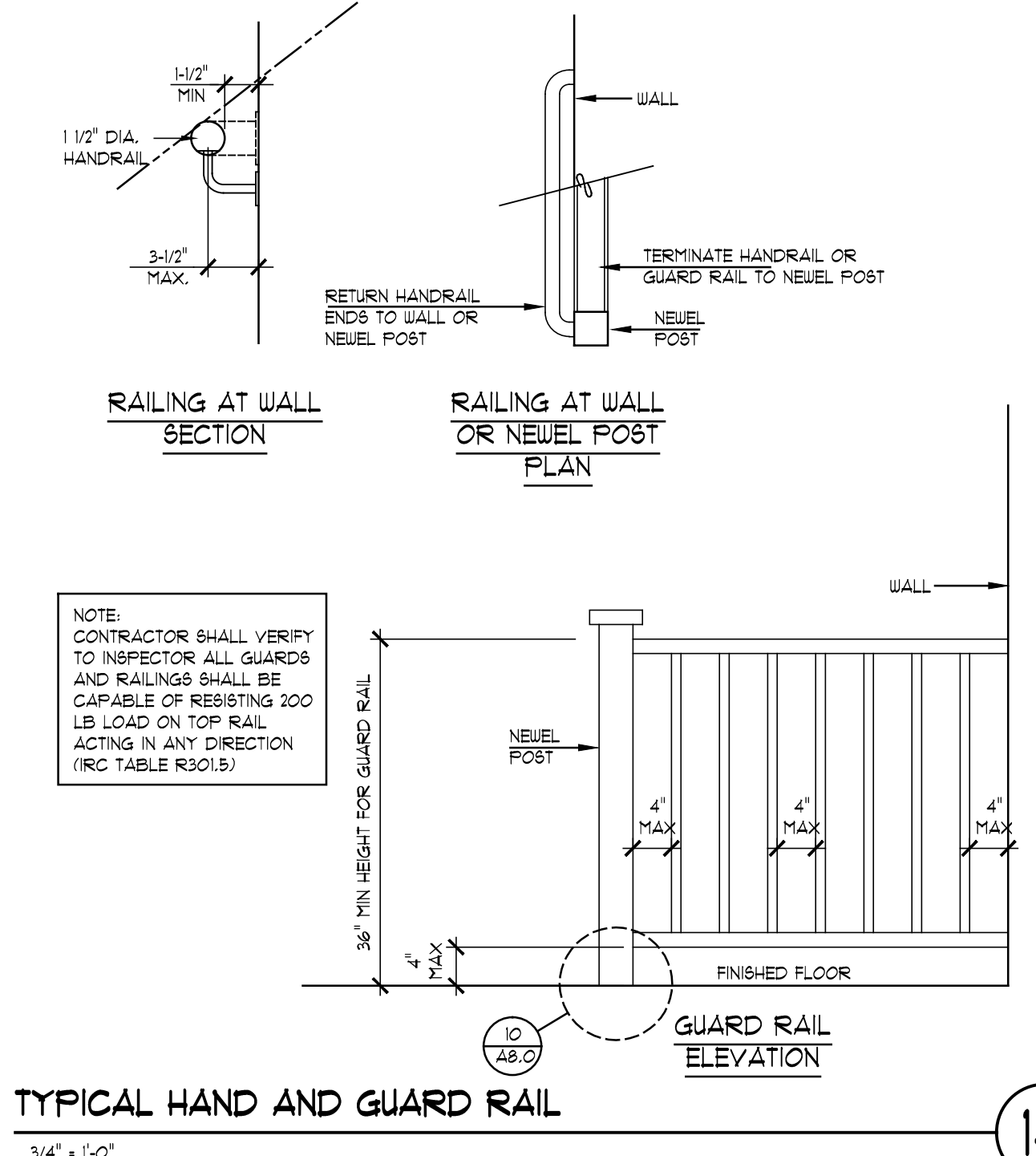
13 PARAPET ROOF DETAIL
3/4" x 1'-0"



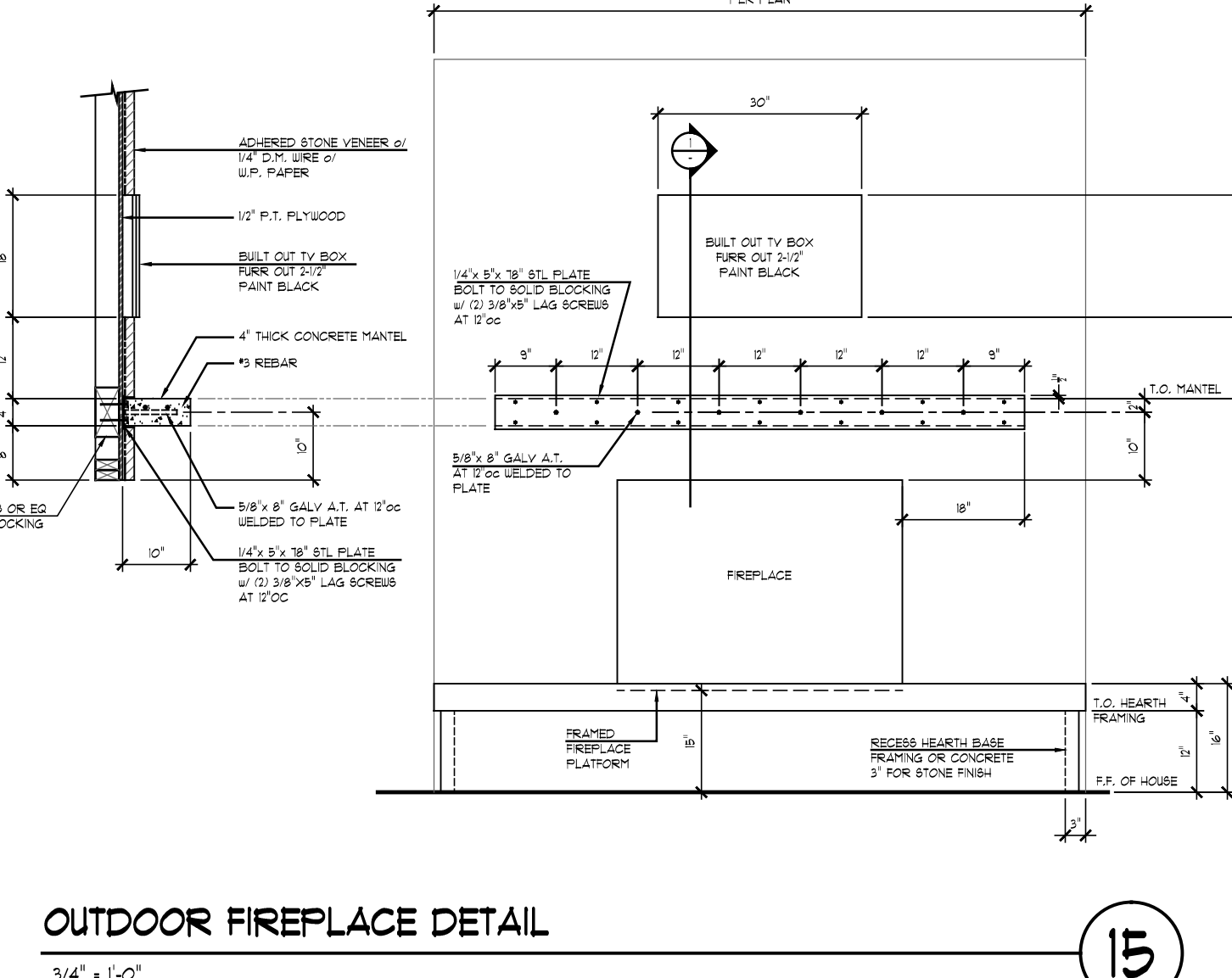
14 TYPICAL INTERIOR STAIR
3/4" x 1'-0"



15 TYPICAL GUARD RAIL POST MOUNTING (INTERIOR AND EXTERIOR)
3/4" x 1'-0"



16 TYPICAL HAND AND GUARD RAIL
3/4" x 1'-0"



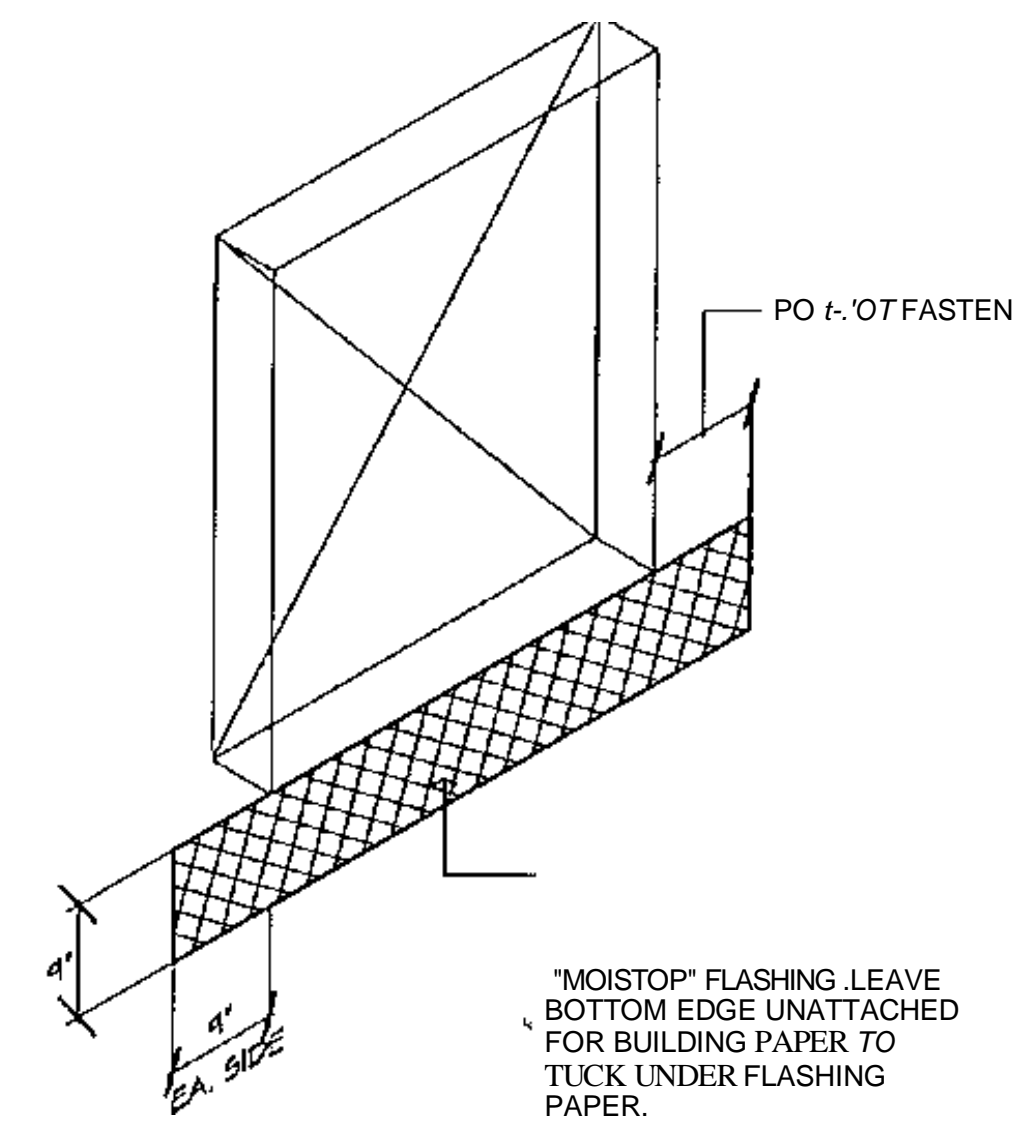
17 OUTDOOR FIREPLACE DETAIL
3/4" x 1'-0"

REVISIONS	
NO.	DESCRIPTION

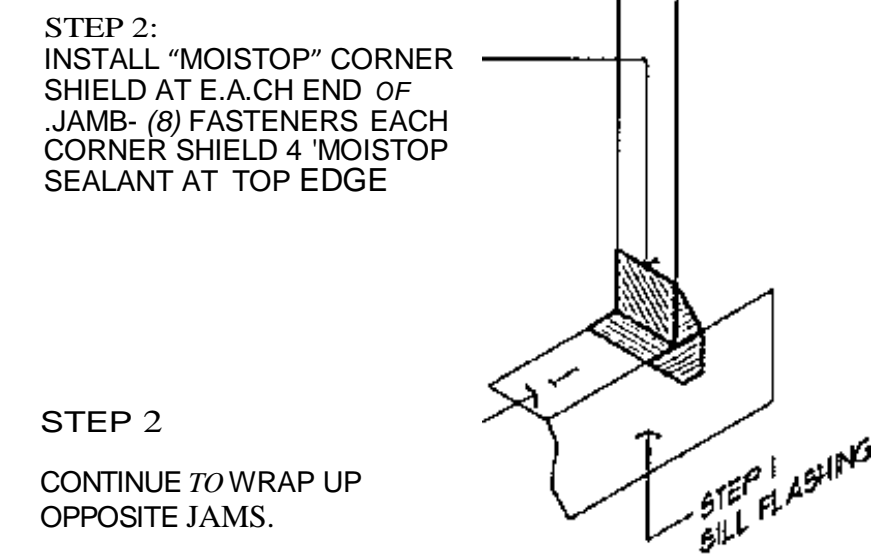
TCHC, LLC (DBA: BDR Custom)
P.O. Box 50088
Richmond, VA 23261
(804) 899-5400

GRANBOIS RESIDENCE
8440 SE 82nd St, Mercer Island

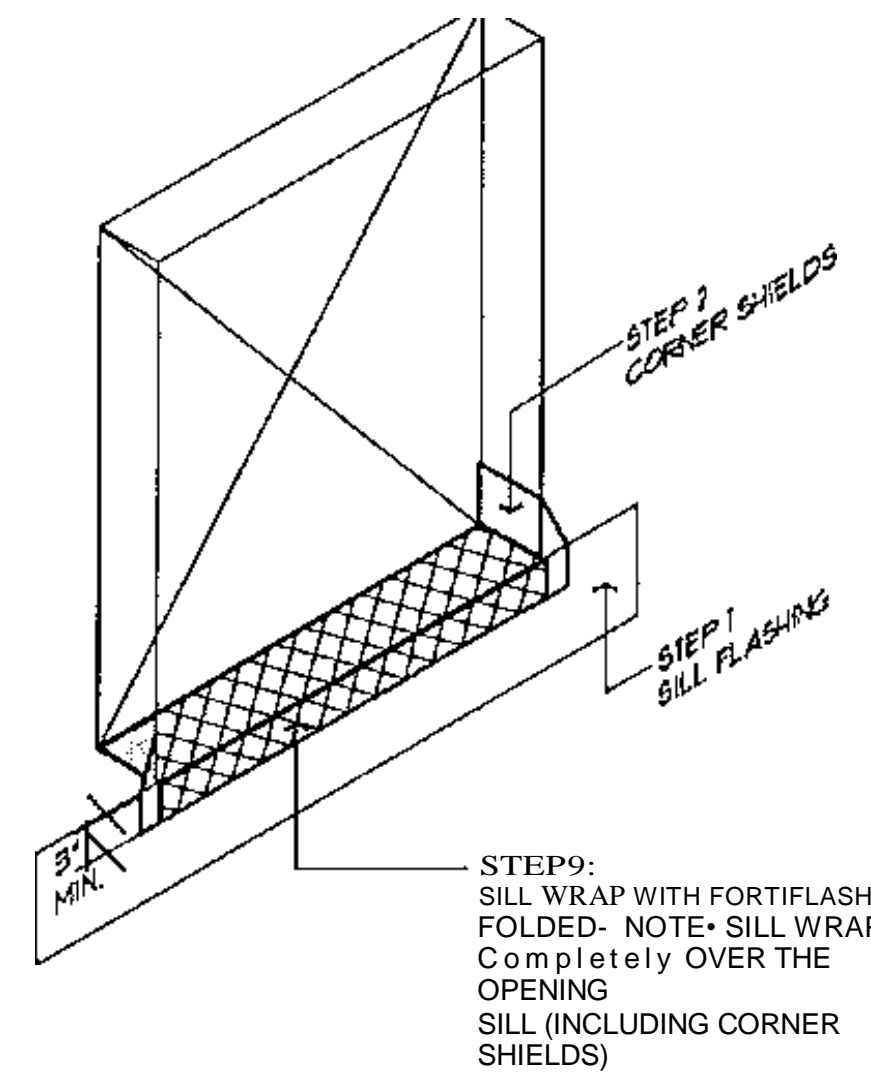
STANDARD DETAILS	
DESIGN:	JMD
DRAWN:	JMD
ISSUE DATE:	APR 7 2023
PLAN NO.:	
SHEET	A7.0



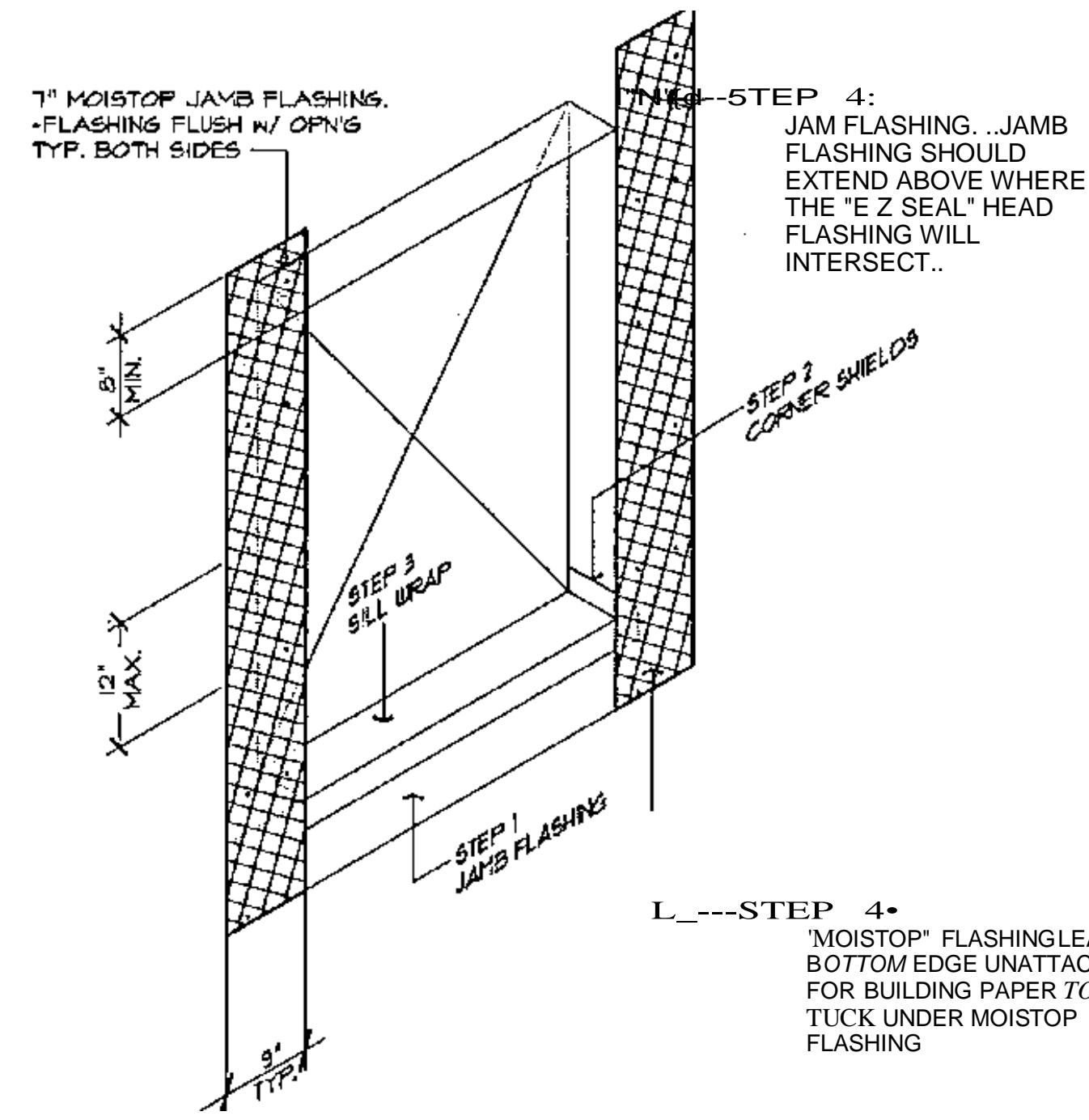
STEP 1
INSTALLED BY FRAMER



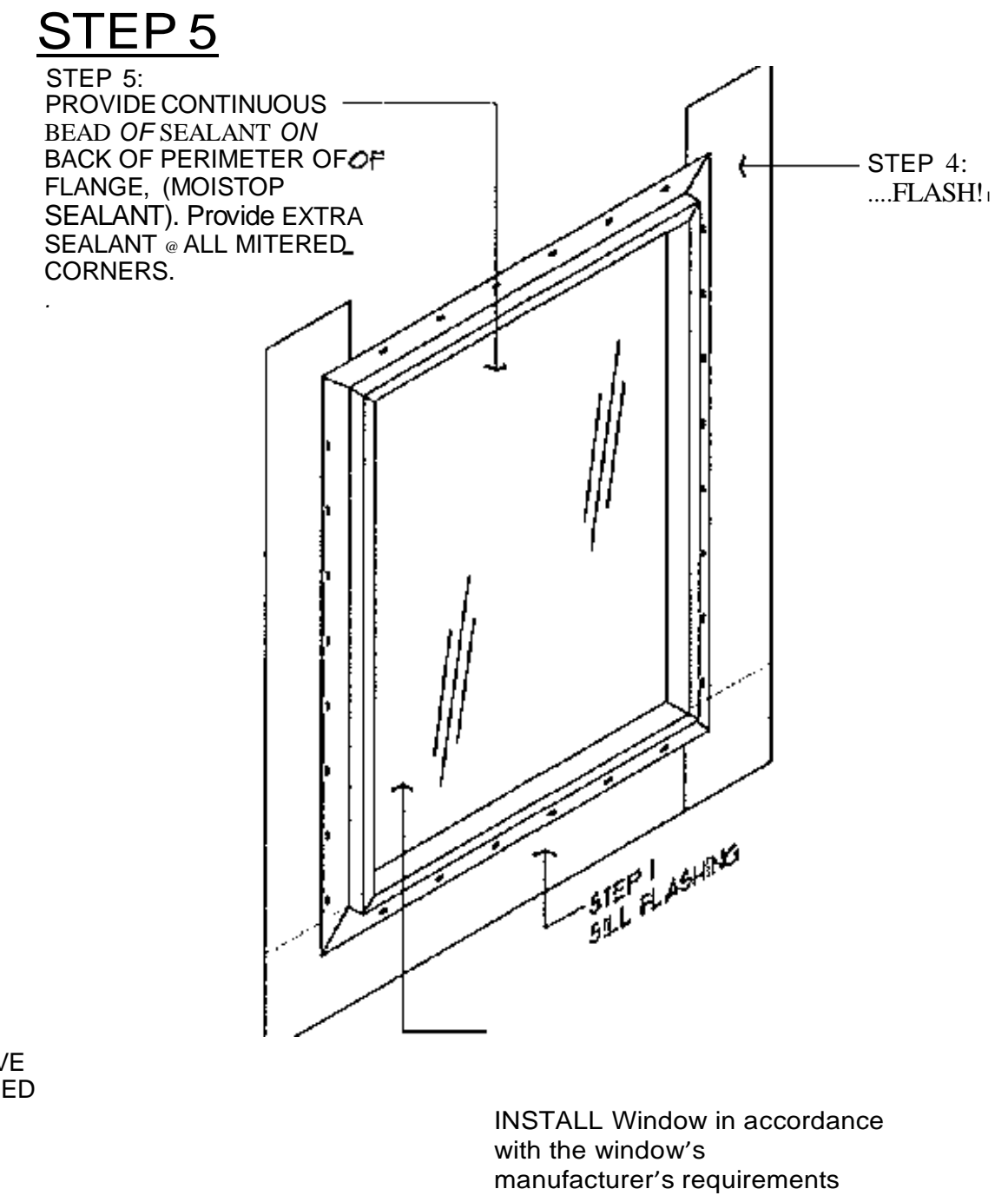
STEP 2
INSTALLED BY FRAMER



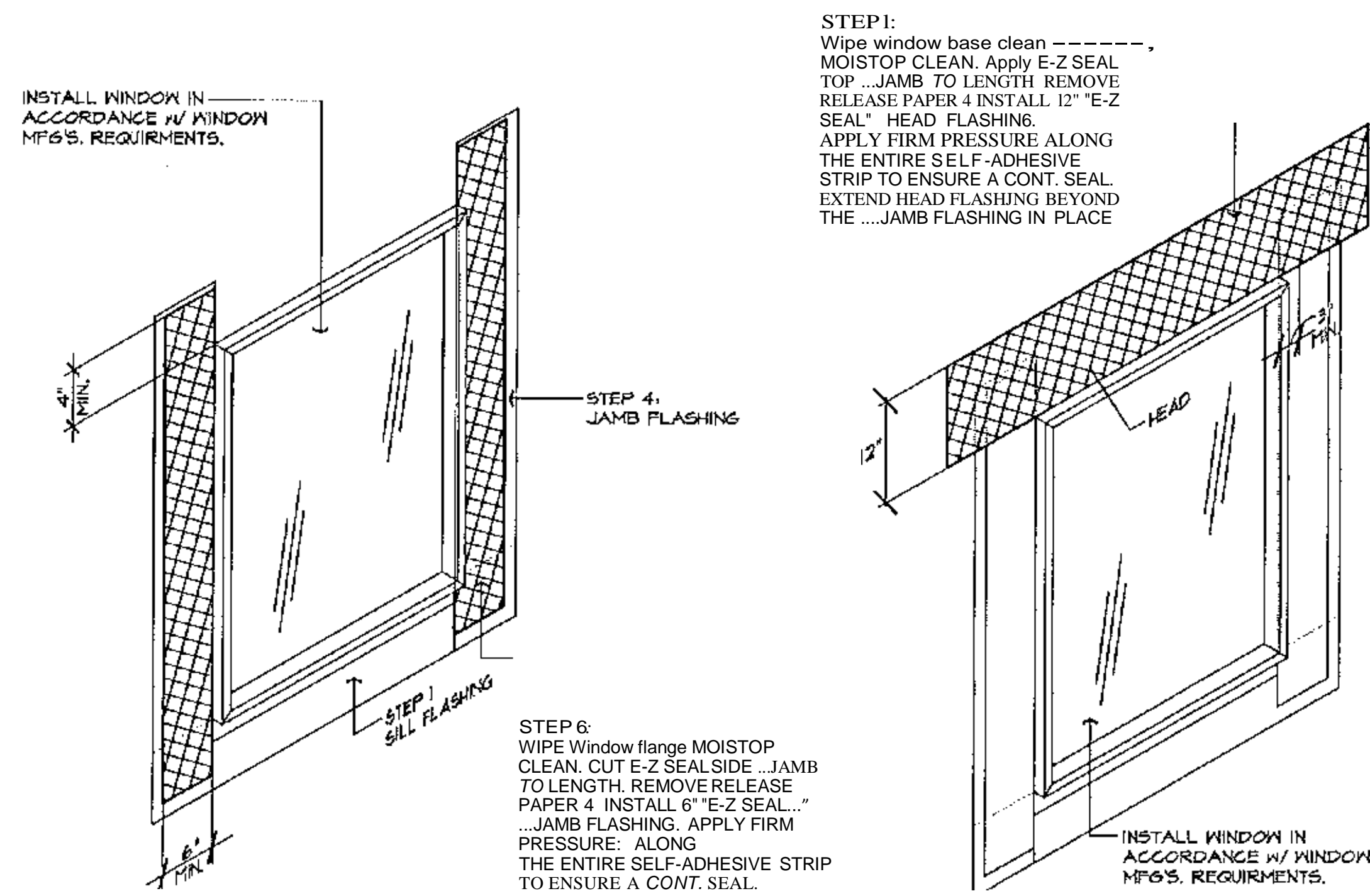
STEP 3
INSTALLED BY FRAMER



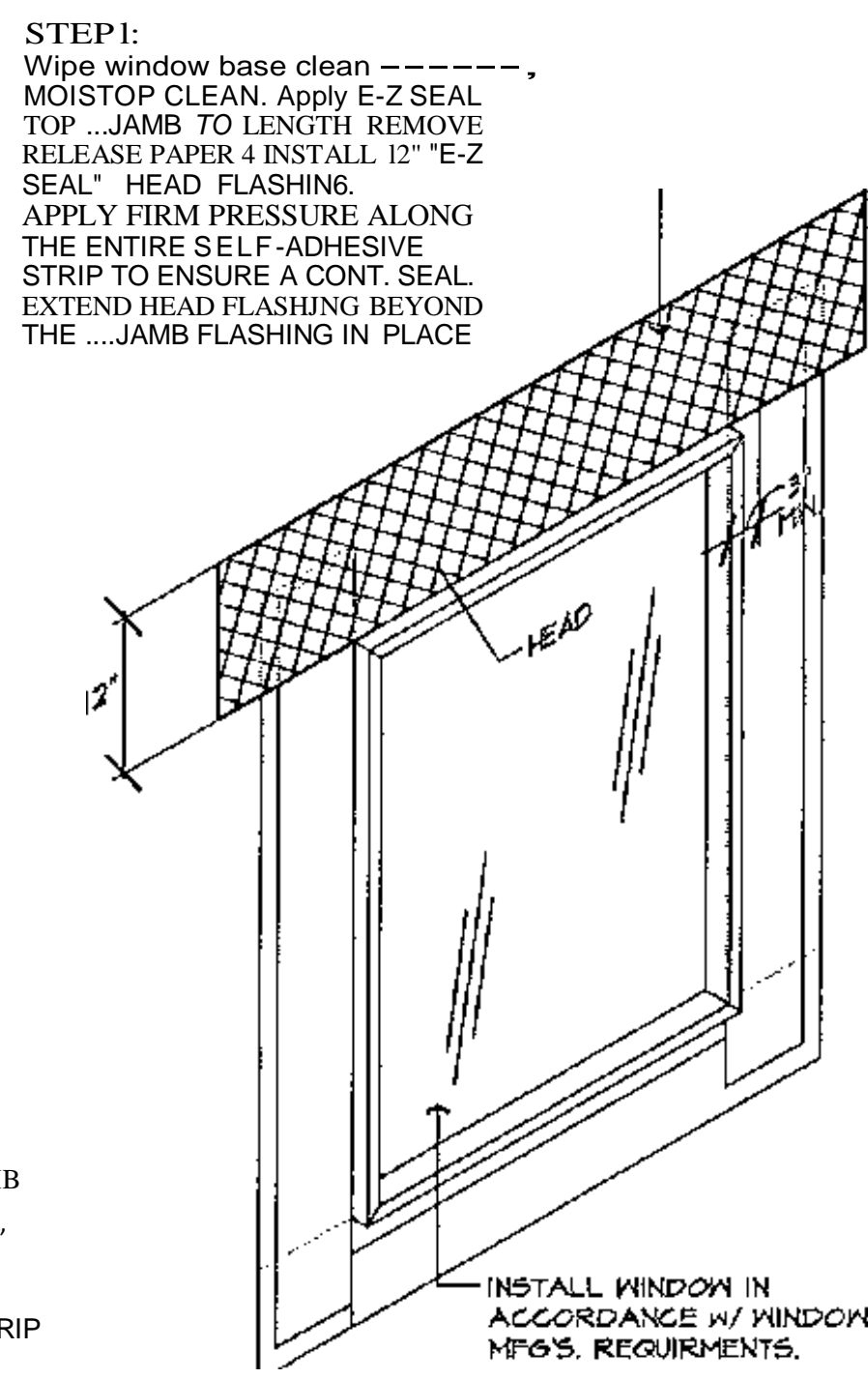
STEP 4
INSTALLED BY FRAMER



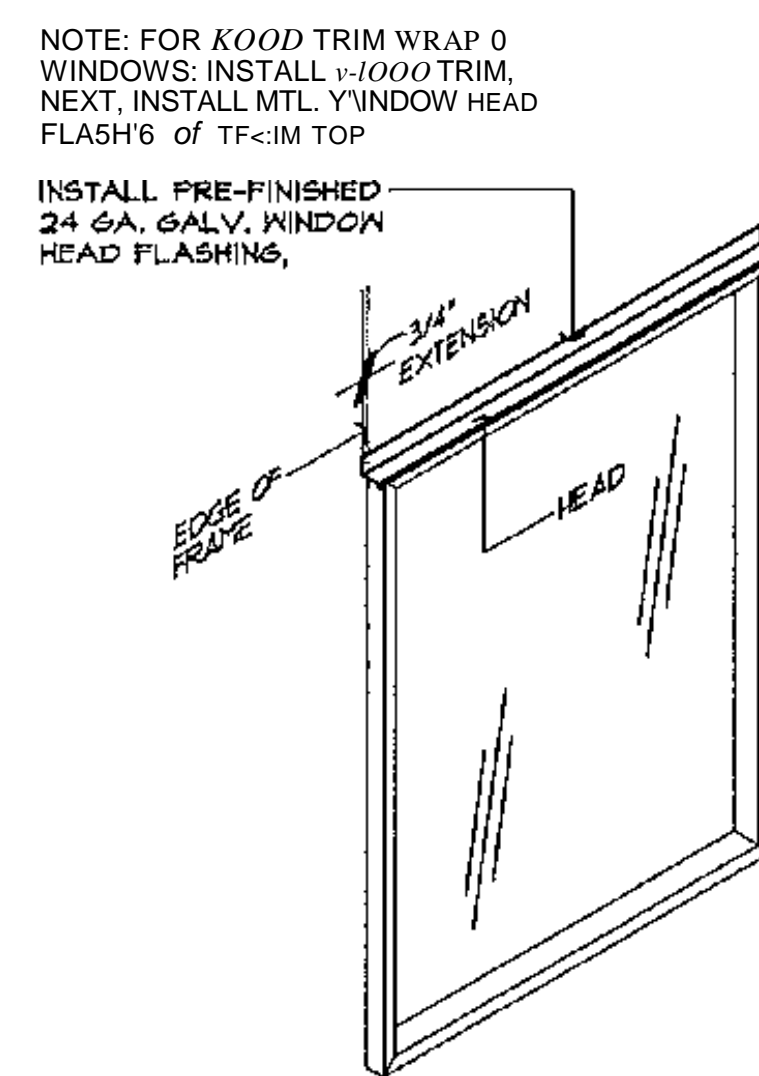
STEP 5
INSTALLED BY FRAMER



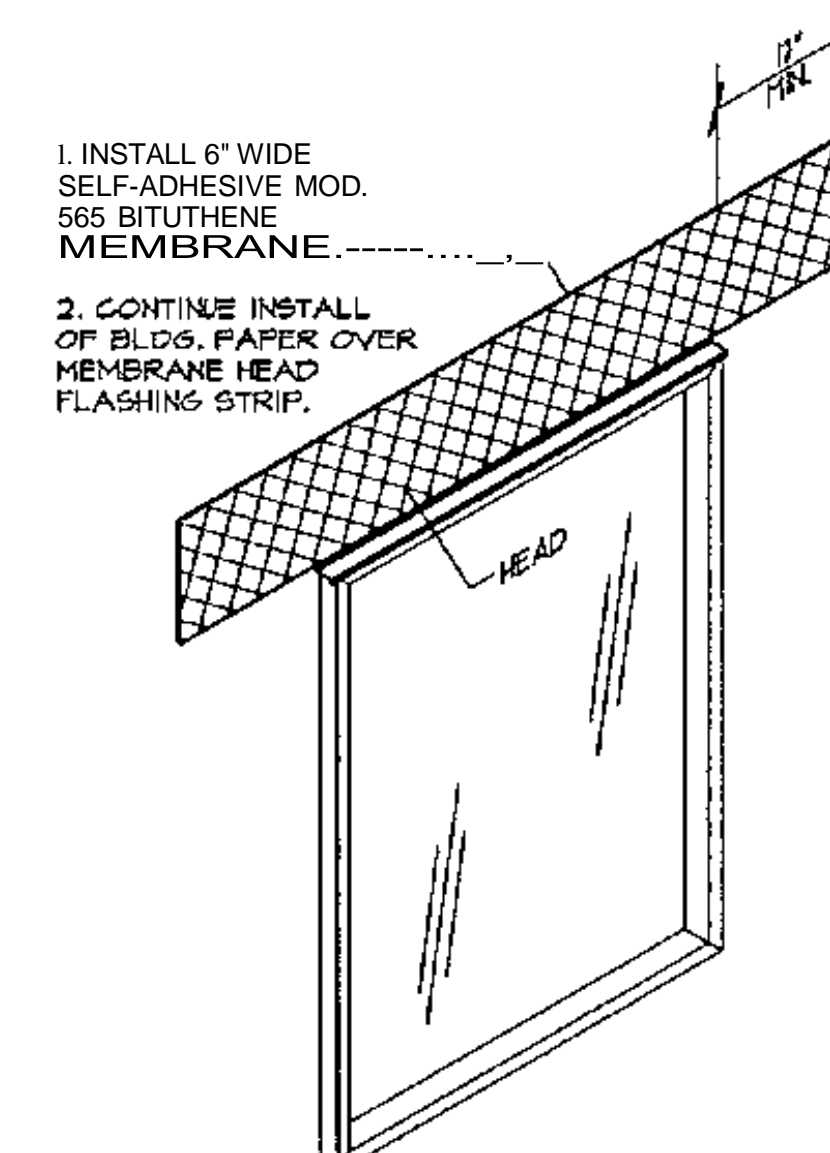
STEP 6
INSTALLED BY SIDER



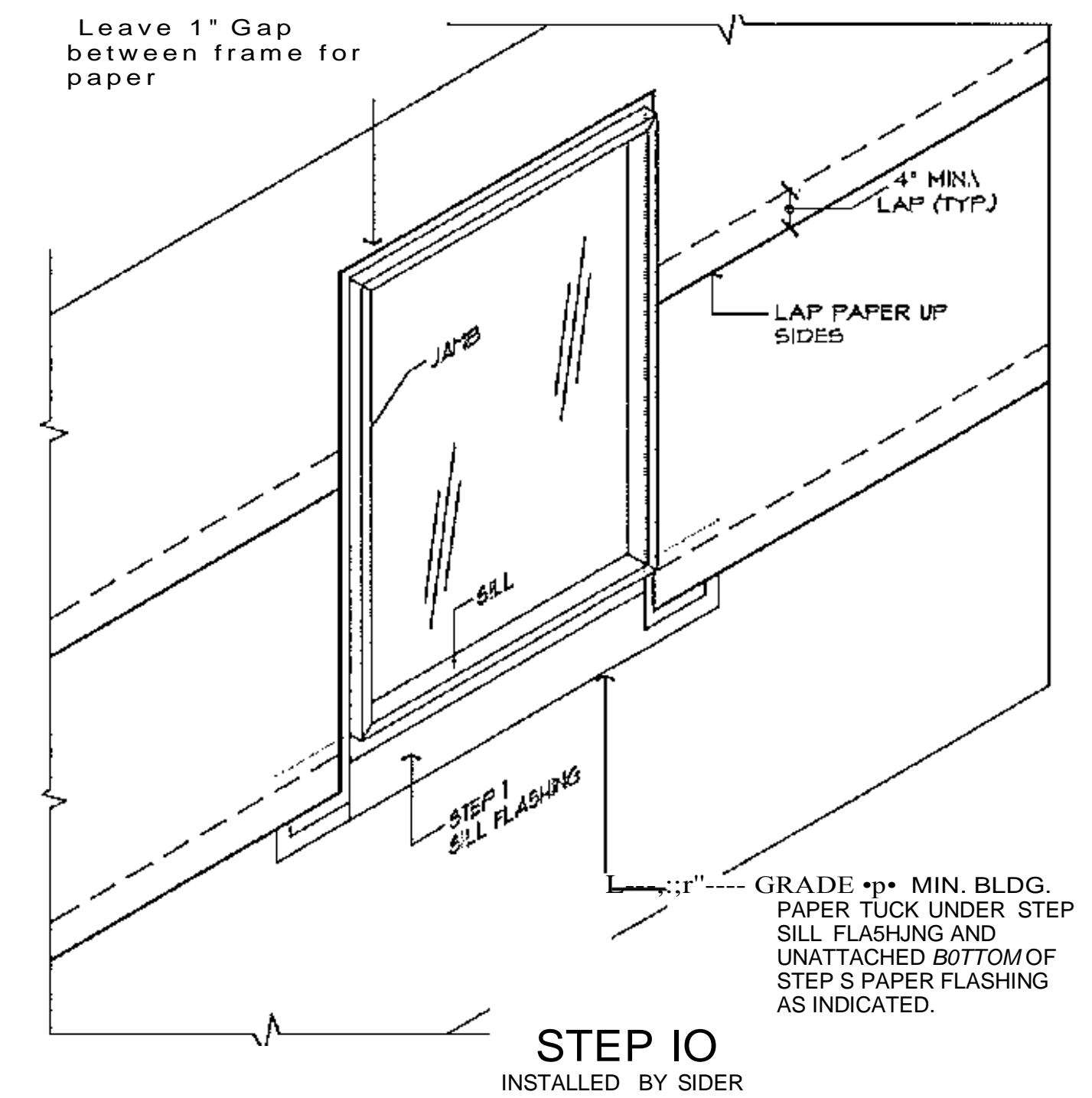
STEP 7
INSTALLED BY SIDER



STEP 8
INSTALLED BY SIDER



STEP 9
INSTALLED BY SIDER



STEP 10
INSTALLED BY SIDER

NO.	DATE	REVISIONS DESCRIPTION

TCHC, LLC (DBA: BDR Custom)
P.O. Box 50008
Richmond, VA 23260-0015
(424) 889-5400

GRANBOIS RESIDENCE
8440 SE 82nd St, Mercer Island

Water Instnction
Details

DESIGN: JMD
DRAWN: JMD
ISSUE DATE: APR 7 2023
PLAN No:

SHEET
A7.1

GRANBOIS RESIDENCE

S230110-1

PROJECT INFORMATION

PROJECT ADDRESS
8440 SE 82ND ST
MERCER ISLAND, WA 98040

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5000 CARILLON POINT STE 500
KIRKLAND, WA 98033
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CONTACT: JIM DWYER

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L120 ENGINEERING & DESIGN
13150 91ST PL NE
KIRKLAND, WA 98034
PHONE: (425) 636-3313
EMAIL: MTHURFJELL@L120ENGINEERING.COM
CONTACT: MANS THURFJELL, PE

CODES

ENGINEERED PER:
2018 (IRC) INTERNATIONAL RESIDENTIAL CODE
2018 (IBC) INTERNATIONAL BUILDING CODE

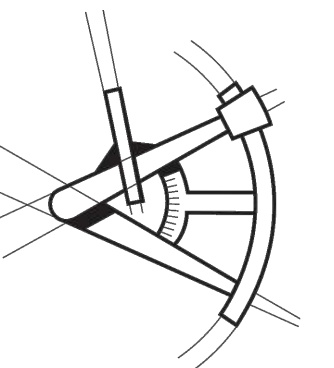
SHEET INDEX

COVER SHEET...S-0
STRUCTURAL GENERAL NOTES...S-1
FOUNDATION PLAN...S-2
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ROOF FRAMING PLAN...S-8

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STRUCTURAL DETAILS...SD-3



LONGITUDE
ONE TWENTY^o
ENGINEERING & DESIGN



REVISIONS

△	DESCRIPTION	DATE	BY
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△	DESCRIPTION	DATE	BY

PROJECT NAME

GRANBOIS RESIDENCE
8440 SE 82ND ST,
MERCER ISLAND

PROJECT NUMBER

S230110-1

DRAWN BY - MR

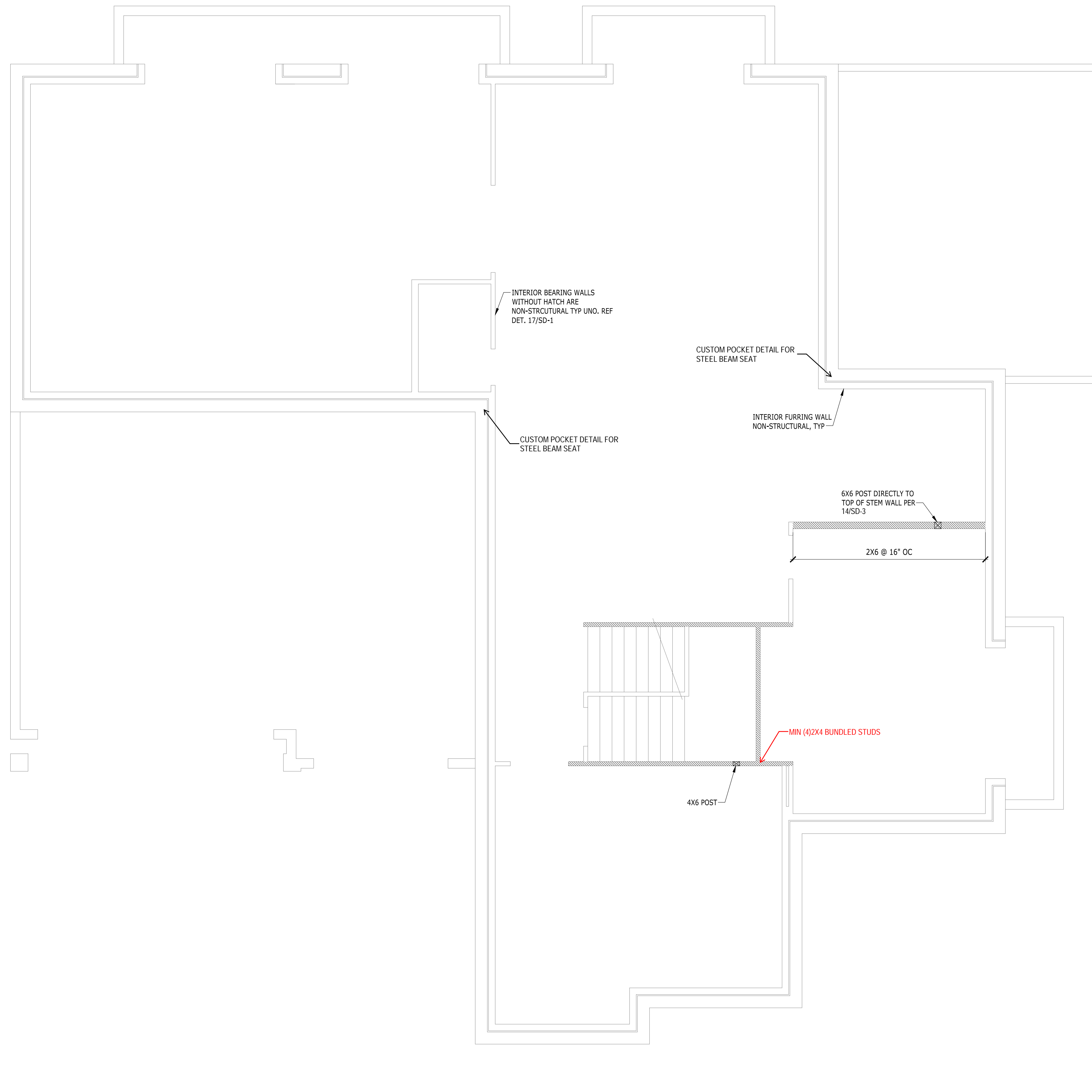
CHECKED BY - MRT

SHEET DATE - 03/15/2023

SCALE

24X36 SHEET:1/4"=1'-0"

DESCRIPTION	SHEET
COVER SHEET	S-0



BASEMENT WALL FRAMING AND SHEAR WALL PLAN

WALL FRAMING AND SHEAR WALL NOTES

- GENERAL STRUCTURAL NOTES AND ABBREVIATIONS PER SHEET S-1.
- VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCH.
- LUMBER GRADE PER GENERAL STRUCTURAL NOTES.
- ALL BUNDLED STUDS SPECIFIED PER PLAN SHALL BE CONNECTED TOGETHER WITH 16d @ 6" O.C.
- EXTERIOR WALL STUDS SHALL BE 2X6 @ 16" O.C. ($\leq 10'$), 2X6 @ 12" O.C. ($> 10'$) UNO. INTERIOR WALL STUDS SHALL BE 2X4 @ 16" O.C. UNO. REFER TO ARCH SET FOR WALL THICKNESS REQUIREMENTS AT PLUMBING STACKS. ALL INTERIOR NON-BEARING WALLS TO BE FRAMED MIN 0.25" UNDER FLOOR SYSTEM.
- PROVIDE ONE KING STUD AND ONE JACK STUD MINIMUM AT EVERY HEADER UNO. JACK STUDS SHOULD BE CONTINUOUS TO THE FOUNDATION AND SHALL HAVE VERTICAL CRUSH BLOCKING WITHIN THE FLOOR FRAMING DEPTH MATCHING THE WIDTH OF JACK STUDS.
- SHEARWALL SHEATHING AND NAILING REQUIREMENTS PER SHEARWALL SCHEDULE. ALL EXTERIOR WALLS SHALL BE TYPE SW6 UNO.
- ALL SHEATHING PANEL EDGES TO OCCUR OVER STUDS, PLATES, RIMS OR HORIZONTAL BLOCKING. PANEL EDGE NAILING PER SHEARWALL SCHEDULE, FIELD NAILING AT 12" O.C. UNO.
- PROVIDE MIN TWO 2X STUDS AT EACH END OF SHEARWALL UNO. PROVIDE PANEL EDGE NAILING INTO EACH STUD AT END OF WALL.
- SHEARWALL PANEL EDGE STUDS INDICATE THE MINIMUM STUD WIDTH AT ABUTTING PANEL EDGES. TWO 2X STUDS ARE AN ACCEPTABLE ALTERNATE FOR 3X STUDS. TWO 2X STUDS ARE TO BE NAILED TOGETHER WITH TWO ROWS 10d NAILS AT 6" O.C. (4" O.C. @ SW2 AND 2W2). AT DOUBLE SIDED SHEARWALLS VERTICAL PANEL EDGES TO BE STAGGERED ON OPPOSITE SIDES OF THE WALL EXCEPT END OF SHEARWALL.
- LTP4 INSTALLED OVER PLYWOOD SHALL USE 8d COMMON NAILS (.1310 X 2.5") LTP4 INSTALLED DIRECTLY AGAINST FRAMING MAY USE 8d SHORT (.131 X 1.5") RBC INSTALLED DIRECTLY AGAINST FRAMING USE 10d SHORT (.148 X 1.5").
- WINDOW STRAP INDICATES THAT A WINDOW IS INCORPORATED WITHIN THE SHEAR WALL. REFER TO FORCE-TRANSFER AROUND OPENING DETAIL FOR FRAMING REQUIREMENTS.
- STHD HOLDDOWNS ARE DIMENSIONED TO CENTER OF STRAP. HDU/HD HOLDDOWNS ARE DIMENSIONED TO CENTER OF ANCHOR BOLT.
- SILL ANCHOR BOLTS (J-BOLTS) SHALL BE ASTM F1554 (36KSI) HDG, ASTM A307 (36KSI) HDG OR SIM. ANCHOR BOLTS TO BE 5/8" \emptyset X 7" MIN EMBEDMENT. SPACING PER SHEARWALL SCHEDULE (72" O.C. MAX). EACH ANCHOR BOLT TO HAVE STANDARD HDG NUT AND WASHER INSTALLED OVER 3" X 3" X 1/4" HDG PLATE WASHER WITH AN EDGE OF THE PLATE WASHER LOCATED WITHIN 1/2" OF SHEATHED FACE OF WALL. FOR TWO-SIDED SHEARWALLS W/ 2X6 WALL FRAMING USE 4X4X1/4" PLATE WASHERS OR STAGGER ANCHOR BOLTS SO THAT EVERY OTHER PLATE WASHER IS LOCATED WITHIN 1/2" OF EACH FACE OF THE WALL.
- ALL HANGERS TO BE MANUFACTURED BY SIMPSON STRONG-TIE. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. ALTERNATIVE SOLUTIONS SHALL BE SUBMITTED TO EOR FOR APPROVAL PRIOR TO INSTALLATION. REFER TO TYPICAL HANGER SCHEDULE FOR HANGER SIZE UNO ON PLAN OR DETAILS.
- FIRE-PROOFING AND MOISTURE-PROOFING REQUIREMENTS BY OTHERS.
- TYPICAL DETAILS:
 - 9/SD-1 TYP STHD HOLDDOWN INSTALLATION
 - 10/SD-1 TYP STHD HOLDDOWN SECTION
 - 11/SD-1 TYP HOLDDOWN INSTALLATION
 - 12/SD-1 TYP PONY WALL DETAIL
 - 14/SD-1 TYP BEAM-TO-BEAM AND BEAM-TO-BLKG DRAG CONNECTION
 - 15/SD-1 TYP BEAM-TO-T/PL DRAG CONNECTION
 - 16/SD-1 TYP BEAM-TO-BLKG-TO-T/PL CONNECTION
 - 17/SD-1 TYP NON-BEARING WALL FRAMING
 - 20/SD-1 TYP TOP PLATE SPLICE
 - 1/SD-2 TYP NOTCHES AND HOLES IN WOOD STUDS
 - 2/SD-2 FORCE-TRANSFER AROUND WINDOWS DETAIL
 - 3/SD-2 TYP HEADER FRAMING

FRAMING AND SHEATHING LEGEND

- HOLDDOWN BY SIMPSON (STHD/MST/HDU/HD, TYP)
- INTERIOR BEARING WALL
- INDICATES THE NUMBER OF KING AND JACK STUDS
- INDICATES SHEARWALL LOCATION (SW# - SHEAR WALL MARK)
- HORIZONTAL STRAP (EXAMPLE)
- HEADER
- SHEAR WALL CALLOUT
REFERENCE TO WALL DESIGNATION IN THE CALCULATION PACKAGE
REFERENCE TO SHEAR WALL TYPE PER SHEAR WALL SCHEDULE
-

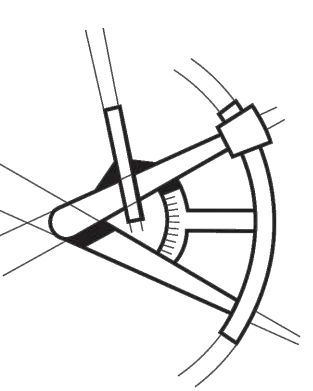
SHEAR WALL SCHEDULE

WALL	SHEATHING	PANEL EDGE NAILING (COMMON (GALV) NAILS)	PANEL EDGE STUDS	ANCHOR BOLTS 5/8" \emptyset EMBED 7"	RIM CONNECTION		
					AT MUD SILL/ PLATE	AT ROOF EAVE TOP PLATE	AT SILL PLATE (SINKER NAIL .1480 X 3 1/4")
SW6	7/16" APA PLY ONE SIDE	8d AT 6" O.C.	2x	48" O.C. IN 2x PLATE	LTP4 AT 24" O.C.	RBC AT 16" O.C.	16d AT 6" O.C.
SW4	7/16" APA PLY ONE SIDE	8d AT 4" O.C.	2x	32" O.C. IN 2x PLATE	LTP4 AT 16" O.C.	RBC AT 12" O.C.	16d AT 4" O.C.
SW3	7/16" APA PLY ONE SIDE	8d AT 3" O.C.	3x	16" O.C. IN 2x PLATE	LTP4 AT 16" O.C.	RBC AT 8" O.C.	16d AT 3" O.C.
SW2	7/16" APA PLY ONE SIDE	8d AT 2" O.C.	3x	12" O.C. IN 2x PLATE	LTP4 AT 12" O.C.	RBC AT 8" O.C.	16d AT 2" O.C.
2W4	7/16" APA PLY TWO SIDES	8d AT 4" O.C. EA SIDE	3x	24" O.C. IN 3x PLATE	LTP4+A35 @ 16" O.C. EA SIDE	N.A. AT ROOF EAVE	(2) ROWS 16d AT 4" O.C.
2W3	7/16" APA PLY TWO SIDES	8d AT 3" O.C. EA SIDE	3x	16" O.C. IN 3x PLATE	LTP4+A35 @ 16" O.C. EA SIDE	N.A. AT ROOF EAVE	(2) ROWS 16d AT 3" O.C.
2W2	7/16" APA PLY TWO SIDES	8d AT 2" O.C. EA SIDE	3x	16" O.C. IN 3x PLATE	LTP4+A35 @ 12" O.C. EA SIDE	N.A. AT ROOF EAVE	(2) ROWS 16d AT 2" O.C.

NOTES: 1) FOR NON-SHEAR WALL, PROVIDE ANCHOR BOLTS @ 72" O.C.



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REVISIONS

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MERCER ISLAND

PROJECT NUMBER

S230110-1

DRAWN BY - MR

CHECKED BY - MRT

SHEET DATE - 03/15/2023

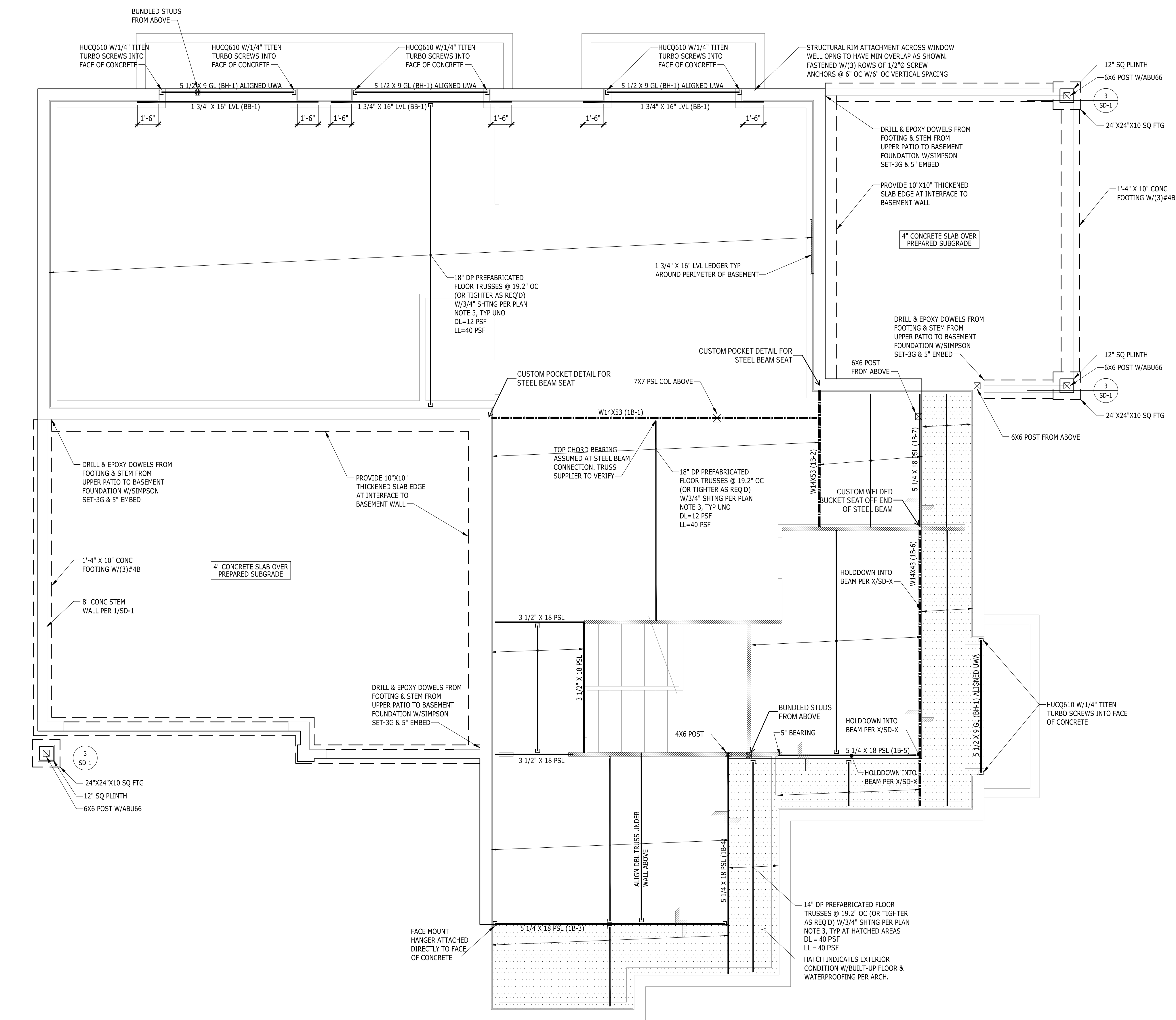
SCALE

24X36 SHEET: 1/4" = 1'-0"

BASEMENT WALL FRAMING AND SHEAR WALL PLAN

DESCRIPTION

SHEET **S-3**

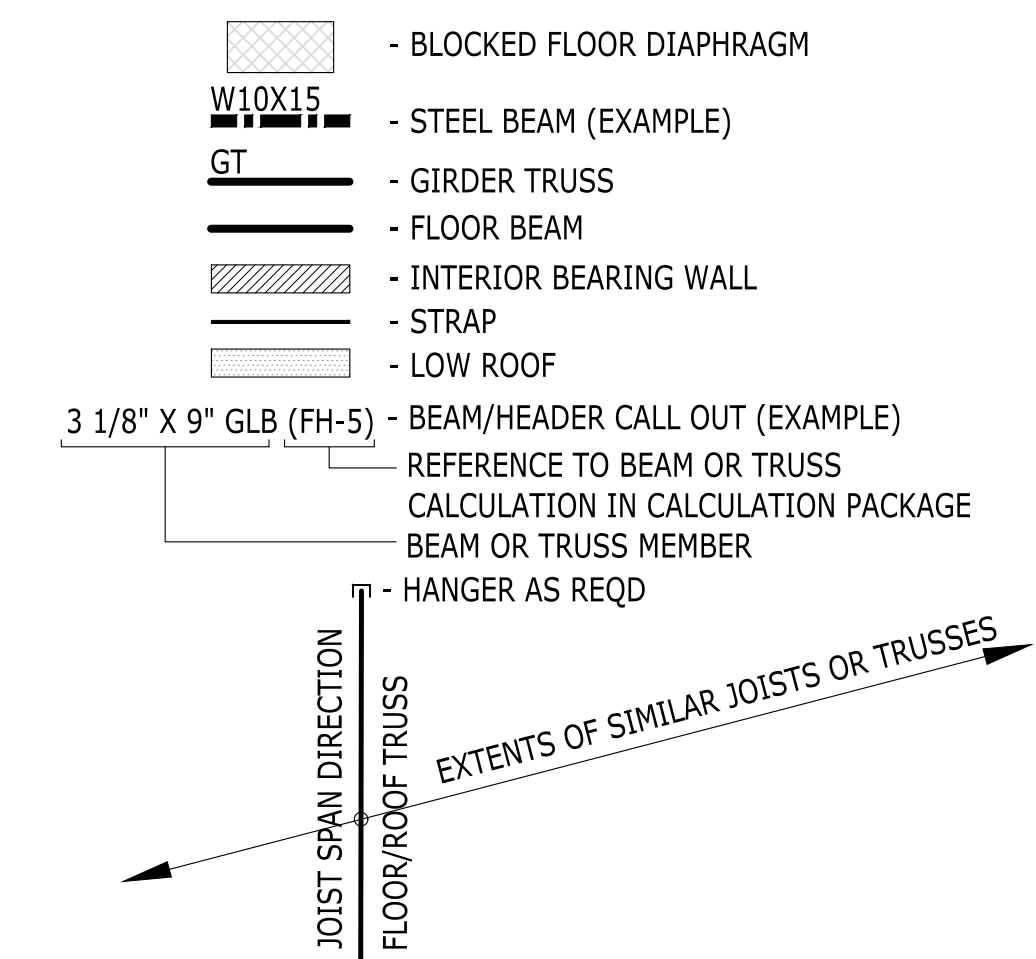


FIRST FLOOR FRAMING PLAN

FLOOR FRAMING NOTES

- GENERAL STRUCTURAL NOTES AND ABBREVIATIONS PER SHEET S-1.
- VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCH.
- FLOOR SHEATHING PER GENERAL NOTES. ALL SHEATHING TO BE GLUED AND NAILED TO FRAMING PER MANUFACTURER RECOMMENDATIONS. USE 8d COMMON NAILS (0.131" X 2 1/2") @ 6" O.C. AT PANEL EDGES AND AT ALL FRAMING DESIGNATED "WITH EDGE NAILING" OR "W/EN", AND 12" O.C. IN THE FIELD. UNO. PANEL EDGE JOINTS TO BE STAGGERED BETWEEN ADJACENT PANELS OF SHEATHING. PROVIDE GAP BETWEEN PANELS TO ALLOW FOR NATURAL EXPANSION/CONTRACTION (1/8" GAP TYP).
- LOCATE ALL OPENINGS AND PENETRATIONS AND VERIFY NO CONFLICT WITH FLOOR FRAMING. MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS BY OTHERS.
- ALL WOOD LOCATED WITHIN 8" OF FINISHED GRADE, EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED. ALL FASTENERS IN CONTACT WITH FIRE-RETARDANT OR PRESSURE-TREATED WOOD SHALL BE COVERED IN PROTECTIVE COATING (I.E. HDG OR SIM).
- ALL BEAMS SHALL BE SUPPORTED BY MIN TWO STUDS BELOW EACH END, UNLESS NOTED OTHERWISE ON PLAN. ALL BEAMS SHALL BE FRAMED FLUSH WITH JOISTS UNO. "DROPPED BEAM" OR "DB" INDICATES T/B/EAM EQUAL B/JOISTS. "TOP FLUSH" OR "TF" INDICATES T/B/EAM EQUAL T/JOISTS AND B/B/EAM EXTENDING BELOW B/JOISTS. "BOTTOM FLUSH" OR "BF" INDICATES B/B/EAM EQUAL B/JOISTS AND T/B/EAM EXTENDING ABOVE T/JOISTS.
- ALL NON-BEARING WALLS TO BE FRAMED MIN 0.25" UNDER FLOOR SYSTEM.
- STUD QUANTITIES, POST SIZE, HOLDOWN, AND SHEARWALL REQUIREMENTS PER WALL FRAMING AND SHEARWALL PLAN BELOW.
- ALL POSTS ABOVE THE FLOOR FRAMING SHALL BE BLOCKED WITHIN THE FLOOR DEPTH ("VERTICAL GRAIN BLKG", "VERTICAL CRUSH BLKG", OR "VCB"). BLOCKING WIDTH SHALL MATCH WIDTH OF POST OR BUNDLED STUDS ABOVE AND EXTEND FULL FLOOR DEPTH.
- HORIZONTAL STRAPS INDICATED ON FRAMING PLANS SHALL BE CENTERED OVER THE TOP PLATE, BEAM, OR BLOCKING. STRAP LENGTH PER PLAN.
- ALL TIES AND HANGERS TO BE MANUFACTURED BY SIMPSON STRONG-TIE. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. ALTERNATIVE SOLUTIONS SHALL BE SUBMITTED TO EOR FOR APPROVAL PRIOR TO INSTALLATION. REFER TO TYPICAL HANGER SCHEDULE FOR HANGER SIZE UNO ON PLAN OR DETAILS.
- ENGINEERED FLOOR JOISTS AND FLOOR TRUSSES TO BE DESIGNED BY OTHERS. REFER TO STRUCTURAL GENERAL NOTES FOR SUBMITTAL INFORMATION, AND DESIGN CRITERIA.
- FIRE-PROOFING AND MOISTURE-PROOFING REQUIREMENTS BY OTHERS.
- TYPICAL DETAILS:
 - 13/SD-1 TYP DROPPED BEAM AT CUT PLATES
 - 14/SD-1 TYP BEAM-TO-BEAM AND BEAM-TO-BLKG DRAG CONNECTION
 - 15/SD-1 TYP BEAM-TO-T/PL DRAG CONNECTION
 - 16/SD-1 TYP BEAM-TO-BLKG-TO-T/PL CONNECTION
 - 17/SD-1 TYP NON-LOAD BEARING WALL FRAMING
 - 18/SD-1 TYP FRAMING AT INTERIOR BEARING WALL
 - 19/SD-1 TYP FRAMING AT INTERIOR FLUSH BEAM

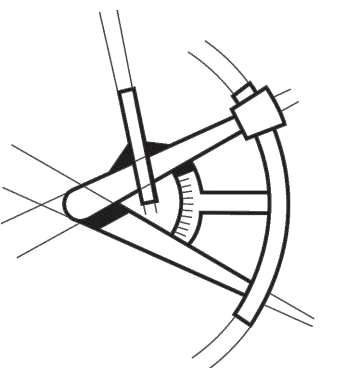
FRAMING LEGEND



TYPICAL JOIST HANGER SCHEDULE			
TJ1210			
11 7/8"	2-PLY 11 7/8"	14"	2-PLY 14"
IUS2.06/11.88	MIU4.28/11	IUS2.06/14	MIU4.28/14
2X10			
1-PLY		2-PLY	
LUS210		LUS210-2	
TYPICAL BEAM HANGER SCHEDULE			
LVL / LSL / PSL			
1 3/4"	3 1/2"	5 1/4"	7"
11 7/8"	HUS1.81/10	HHUS410	HGUS5.50/12 HGUS7.25/12
14"	HUS1.81/10	HHUS410	HGUS5.50/14 HGUS7.25/14



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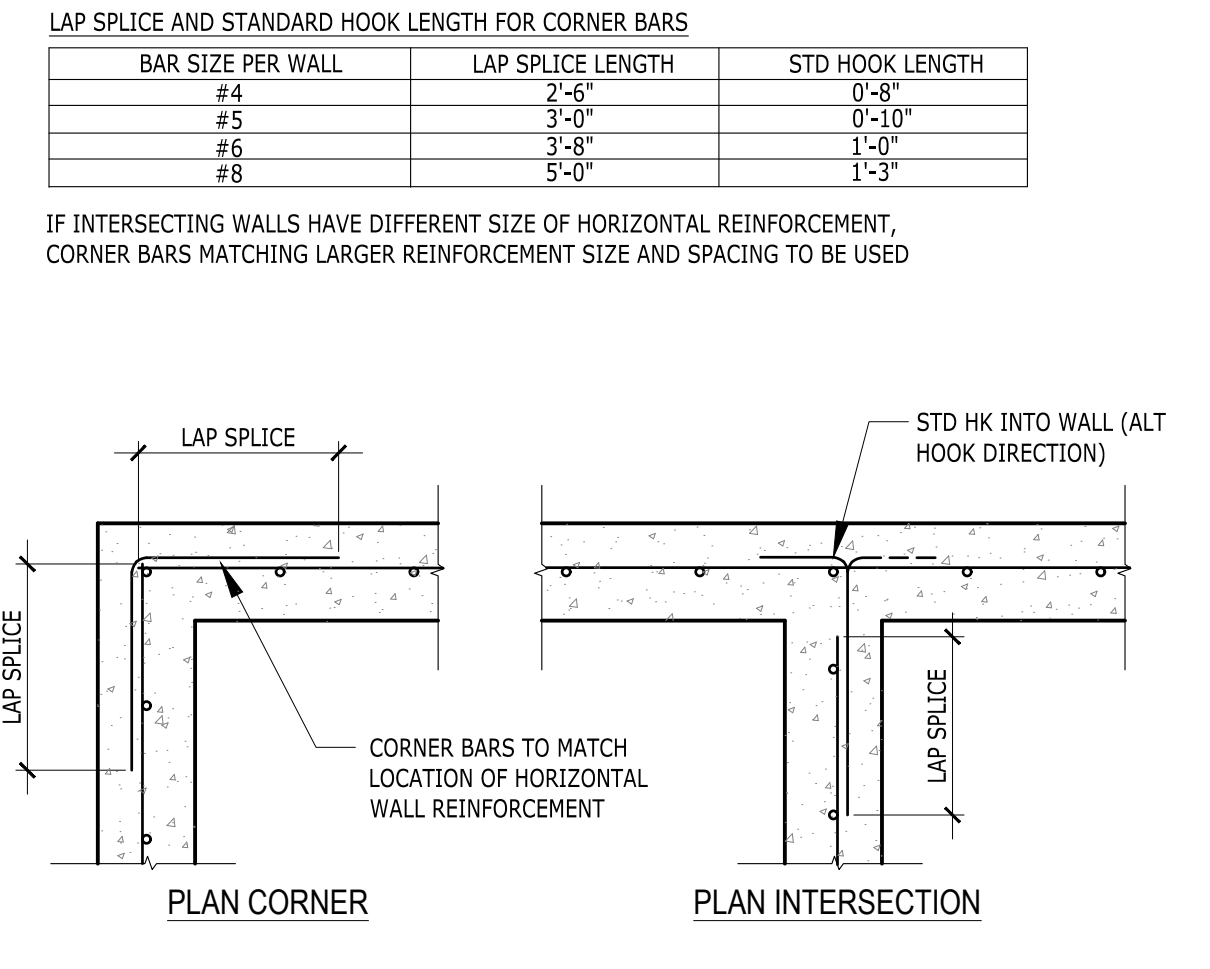
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SHEET DATE - 03/15/2023

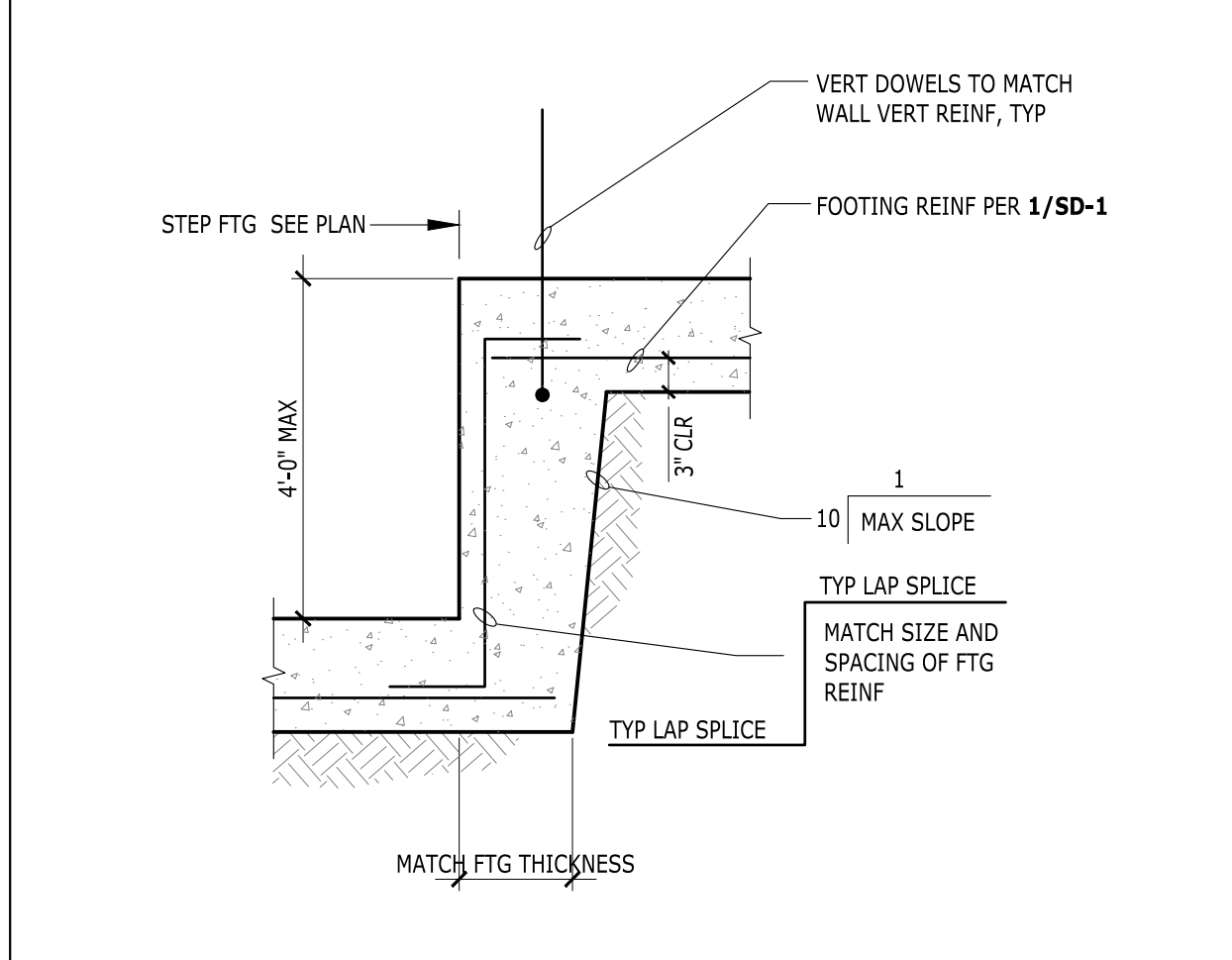
SCALE
24X36 SHEET: 1/4" = 1'-0"

FIRST FLOOR FRAMING PLAN

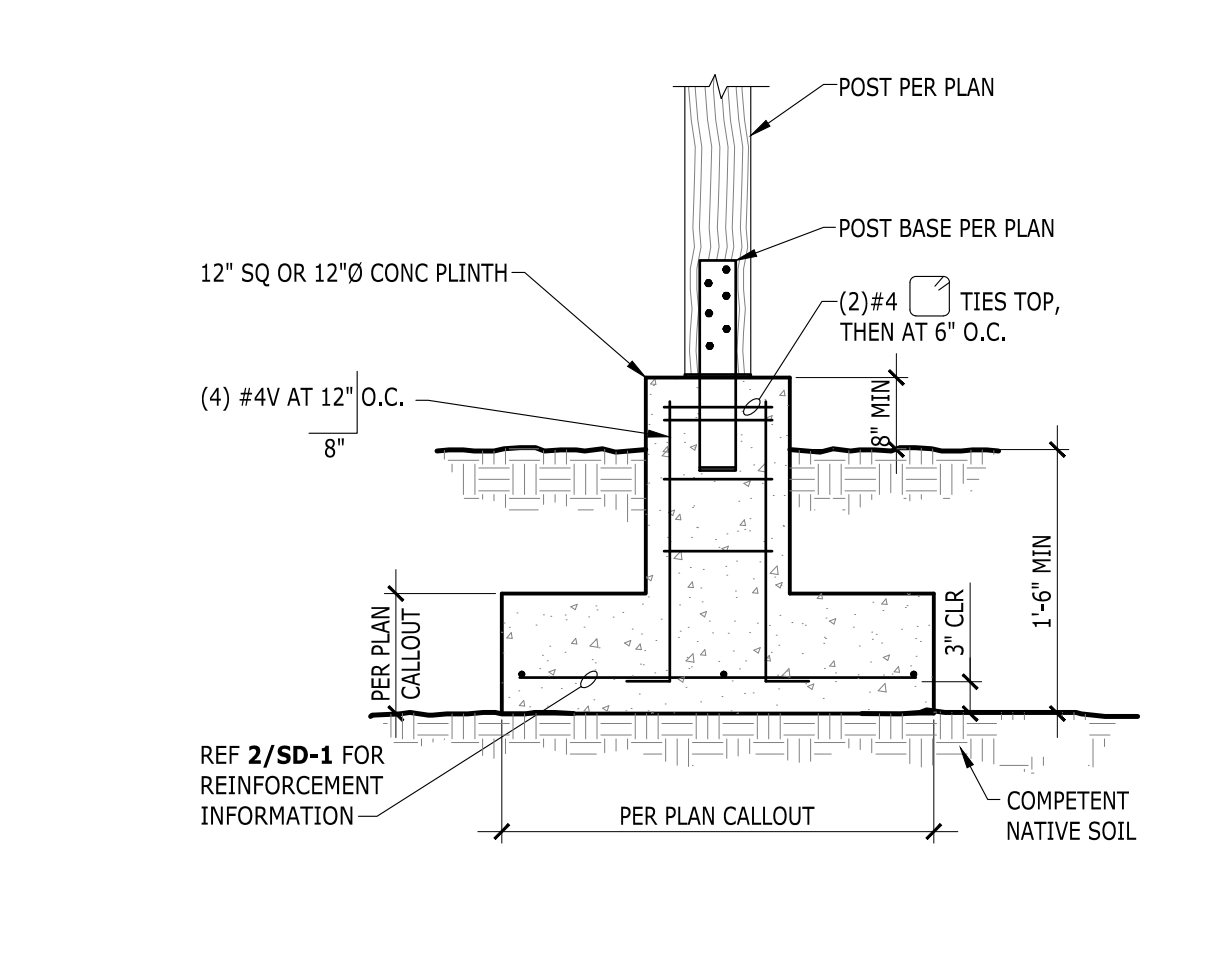
DESCRIPTION SHEET S-4



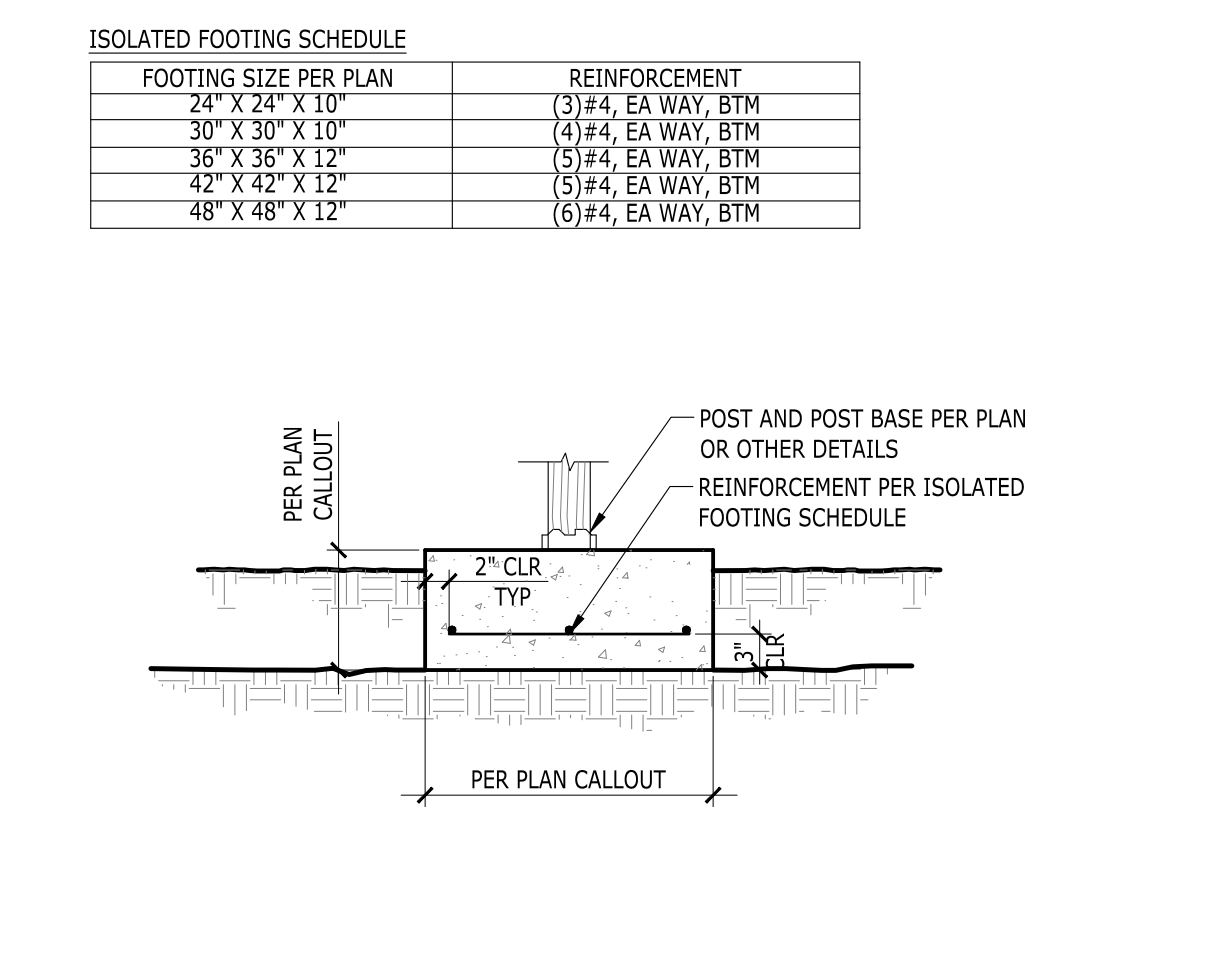
5 CORNER BARS AT CONCRETE WALLS



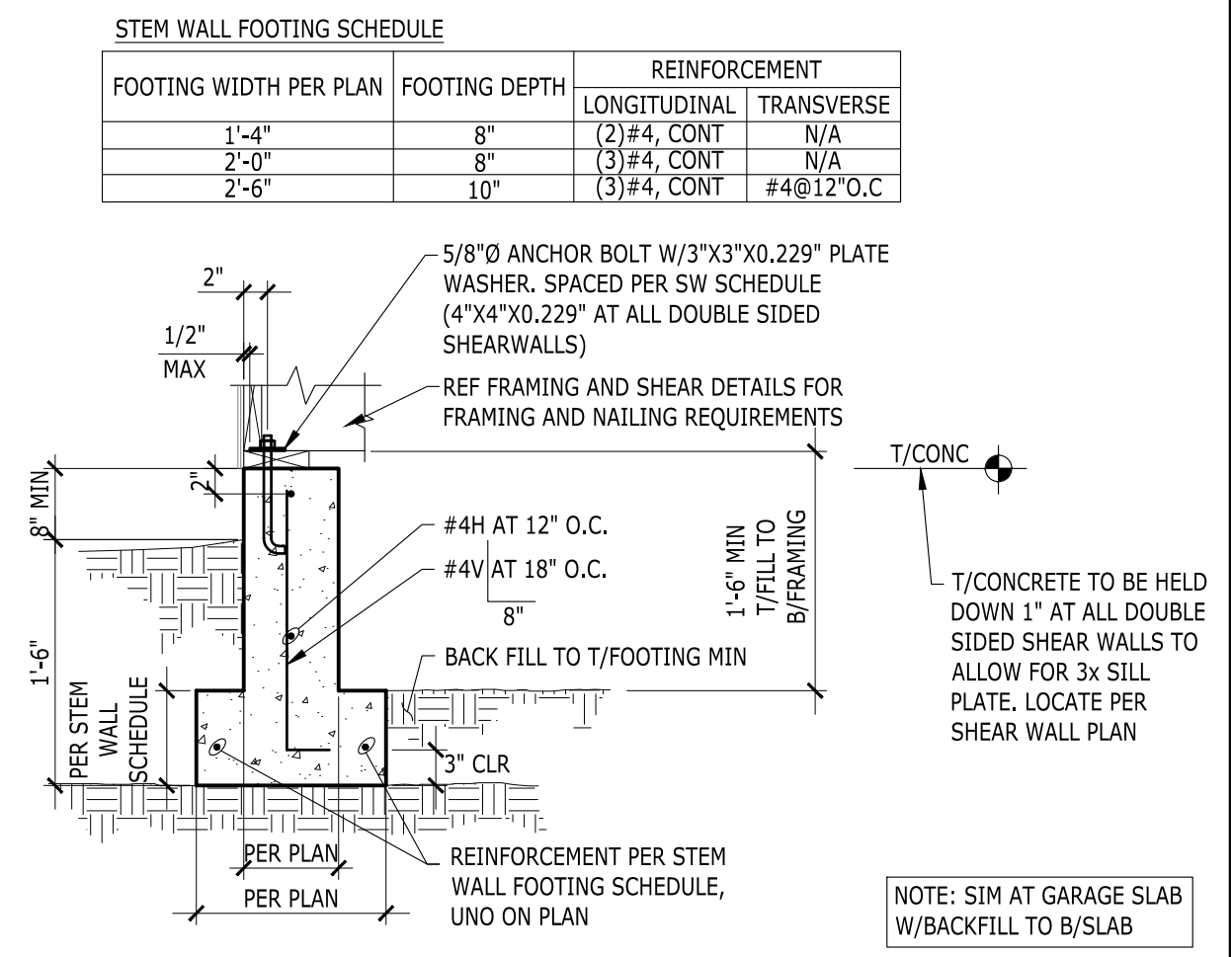
4 STEP AT WALL FOOTING



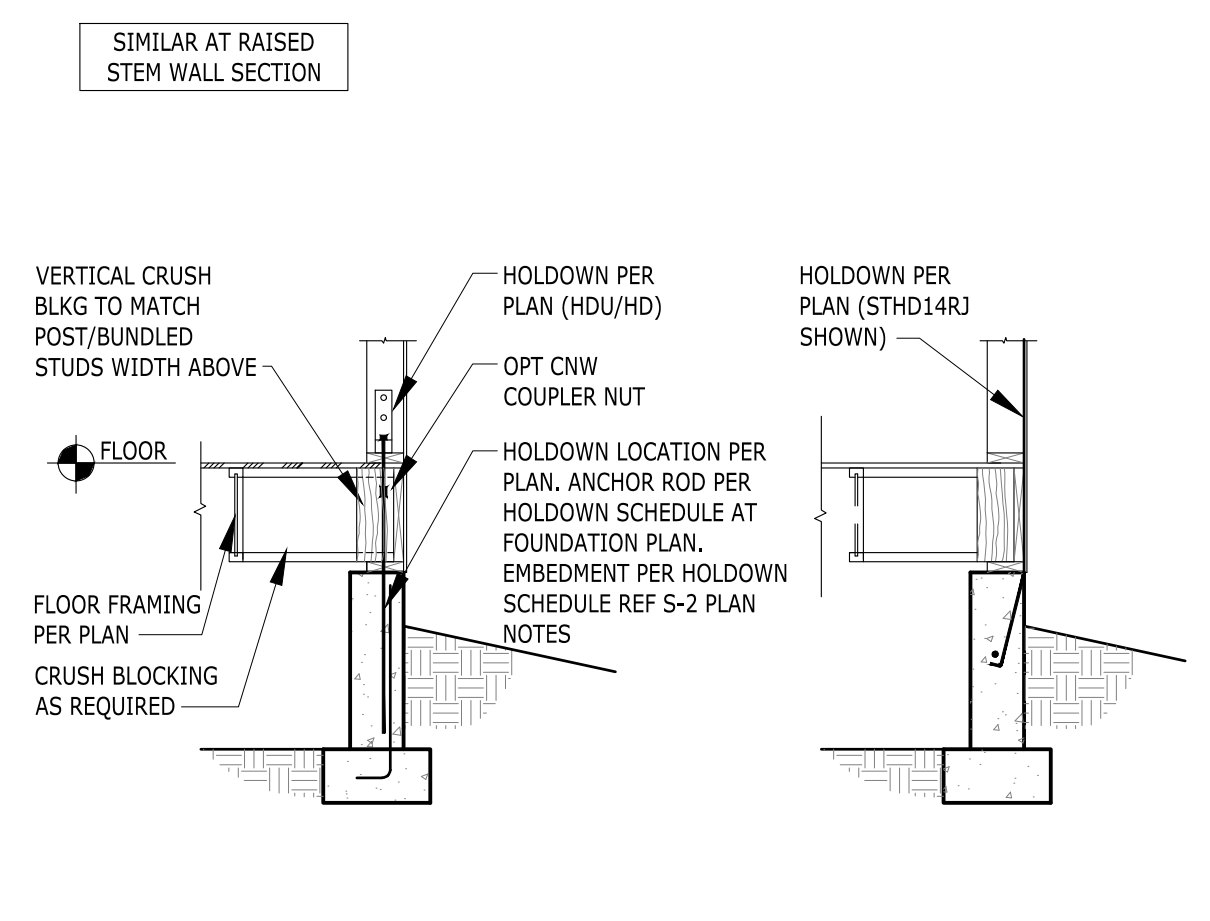
3 ISOLATED EXTERIOR FOOTING



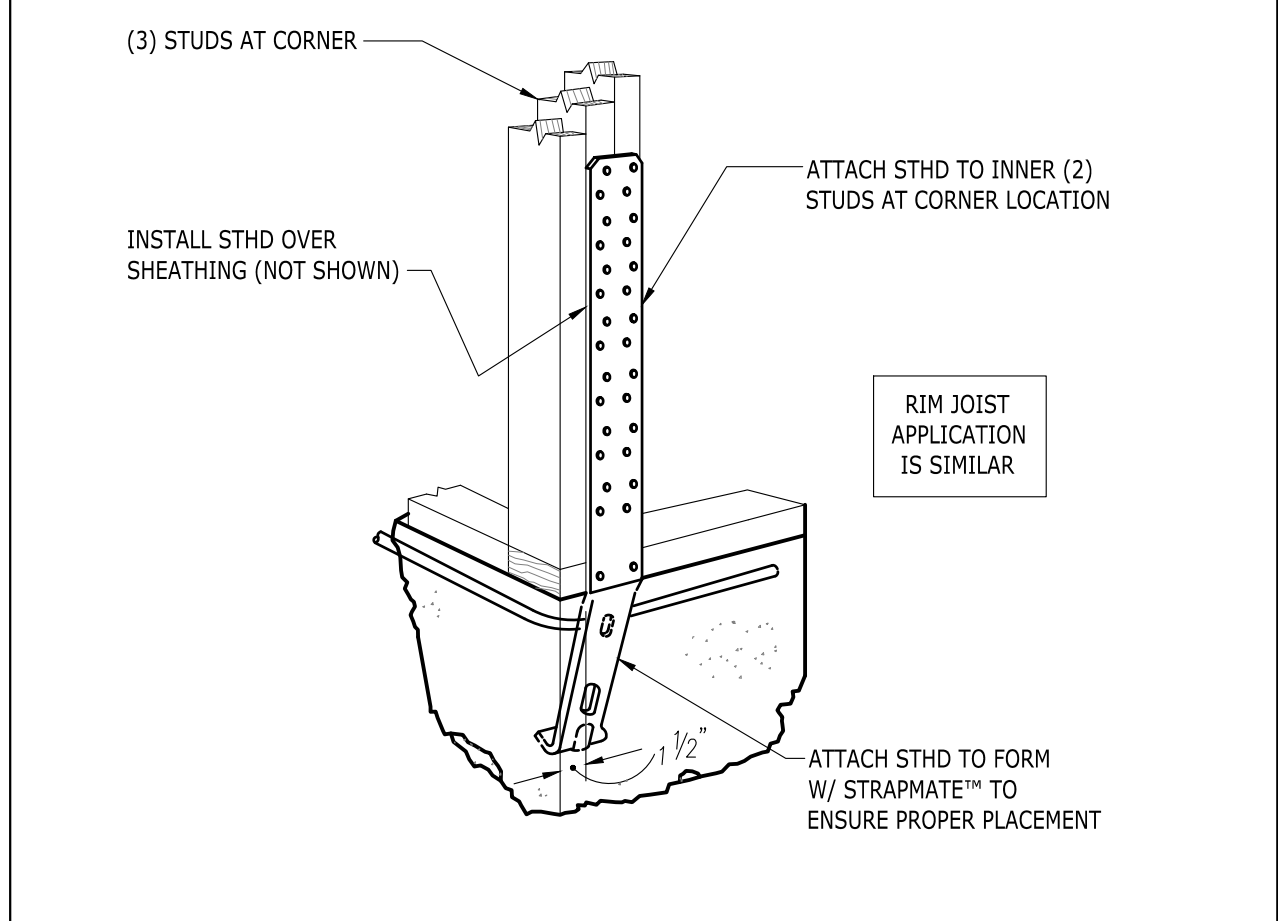
2 ISOLATED INTERIOR FOOTING



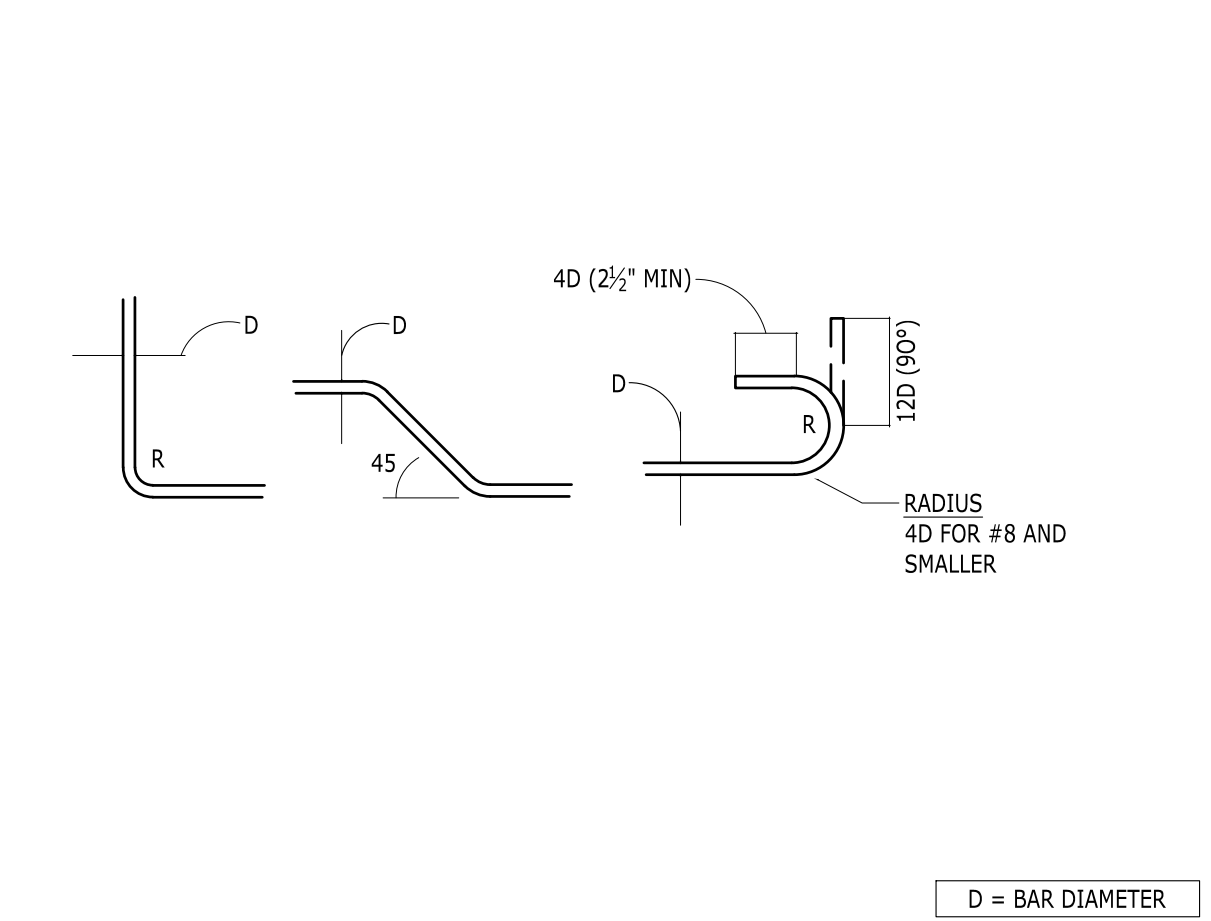
1 STEM WALL AT EXTERIOR



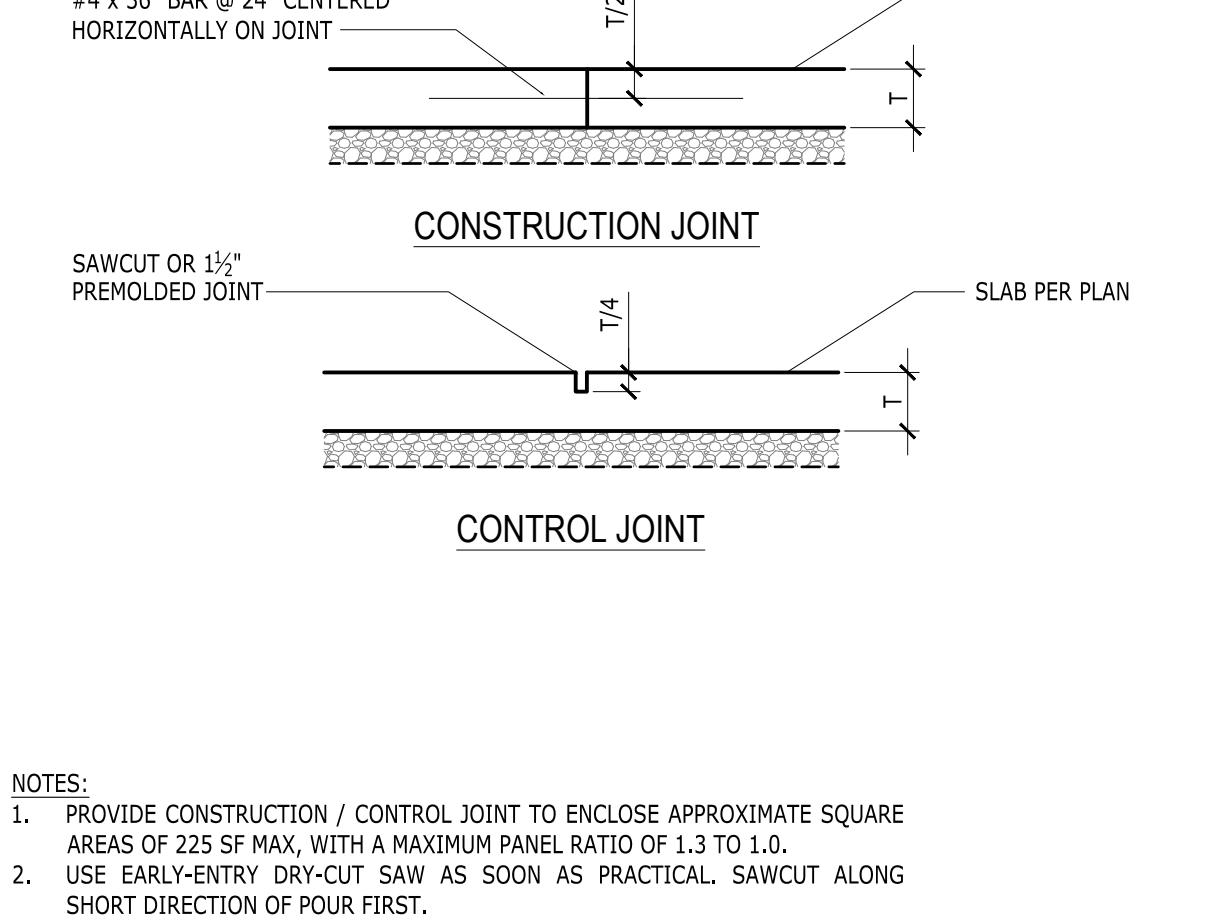
10 FOUNDATION SECTION AT HOLDDOWN



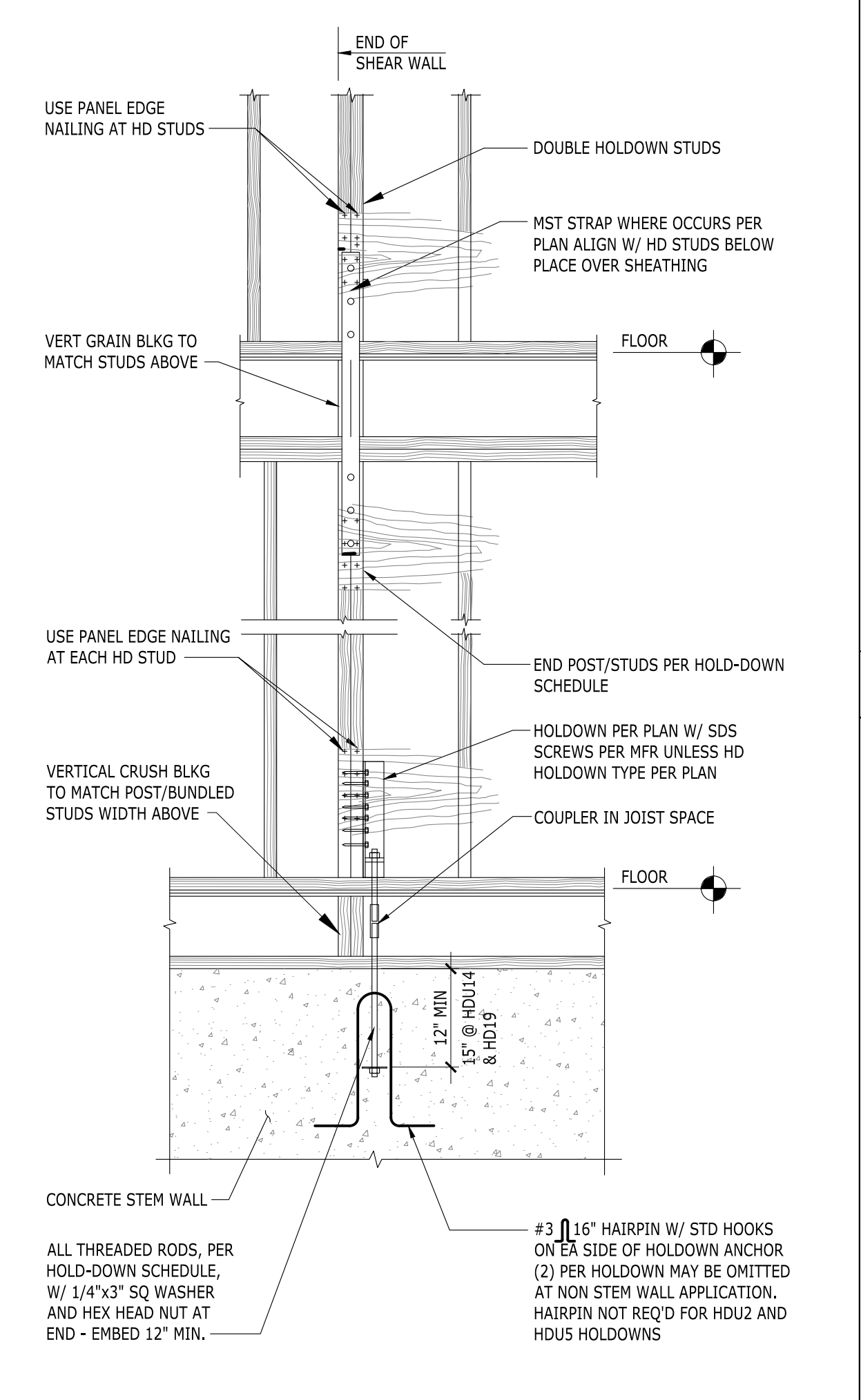
9 STHD HOLDOWN INSTALLATION



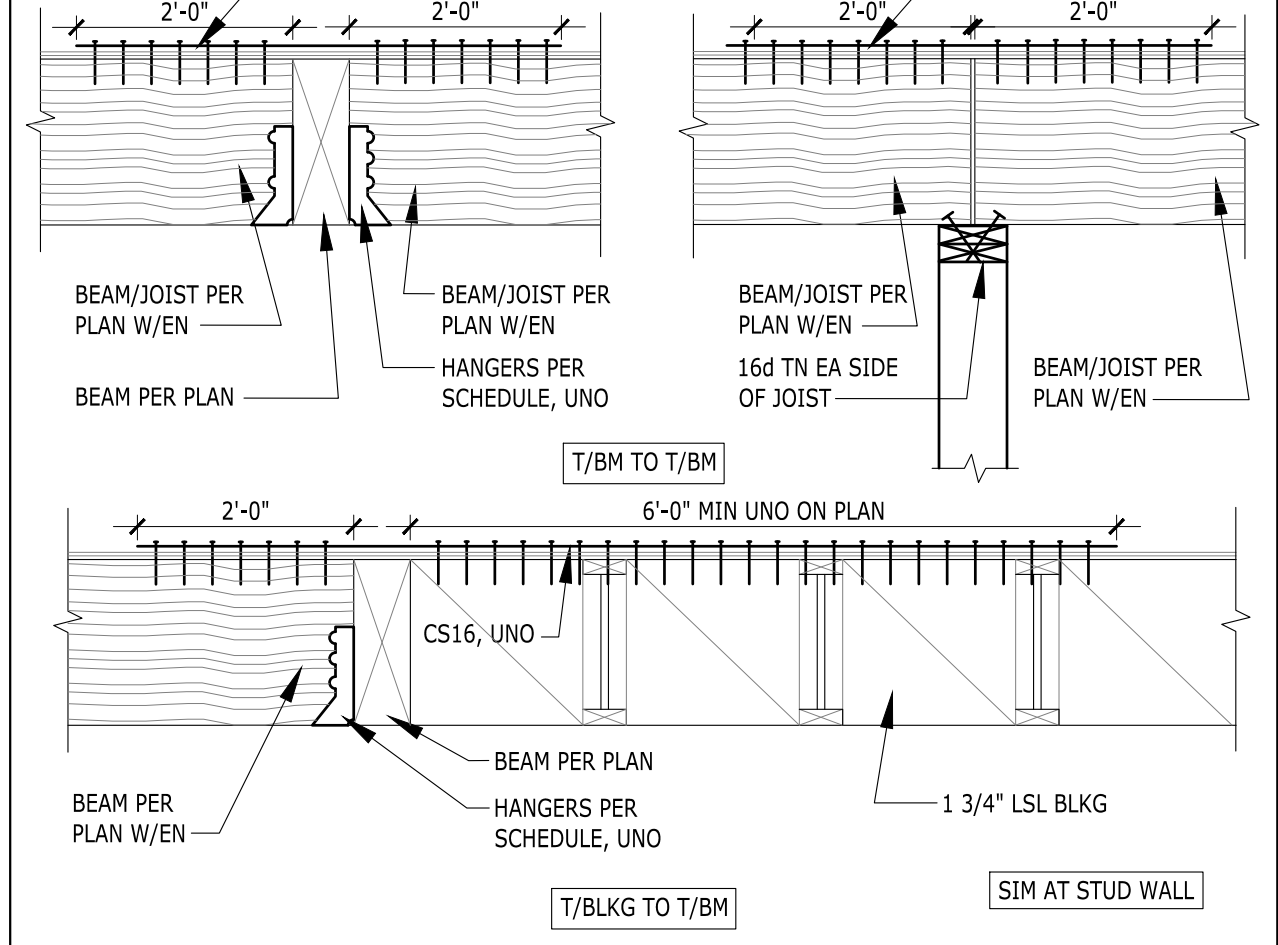
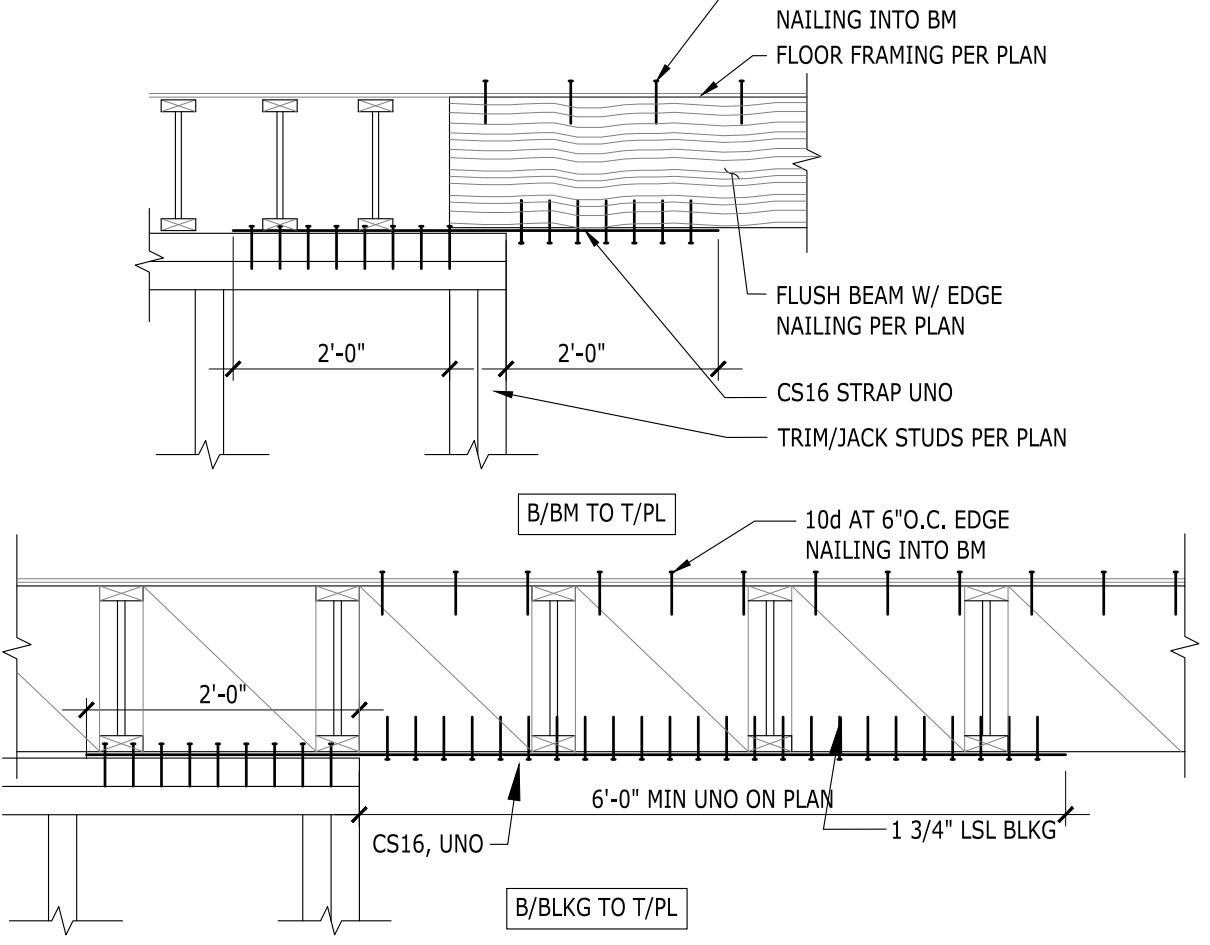
8 BAR BEND AND HOOK DETAILS



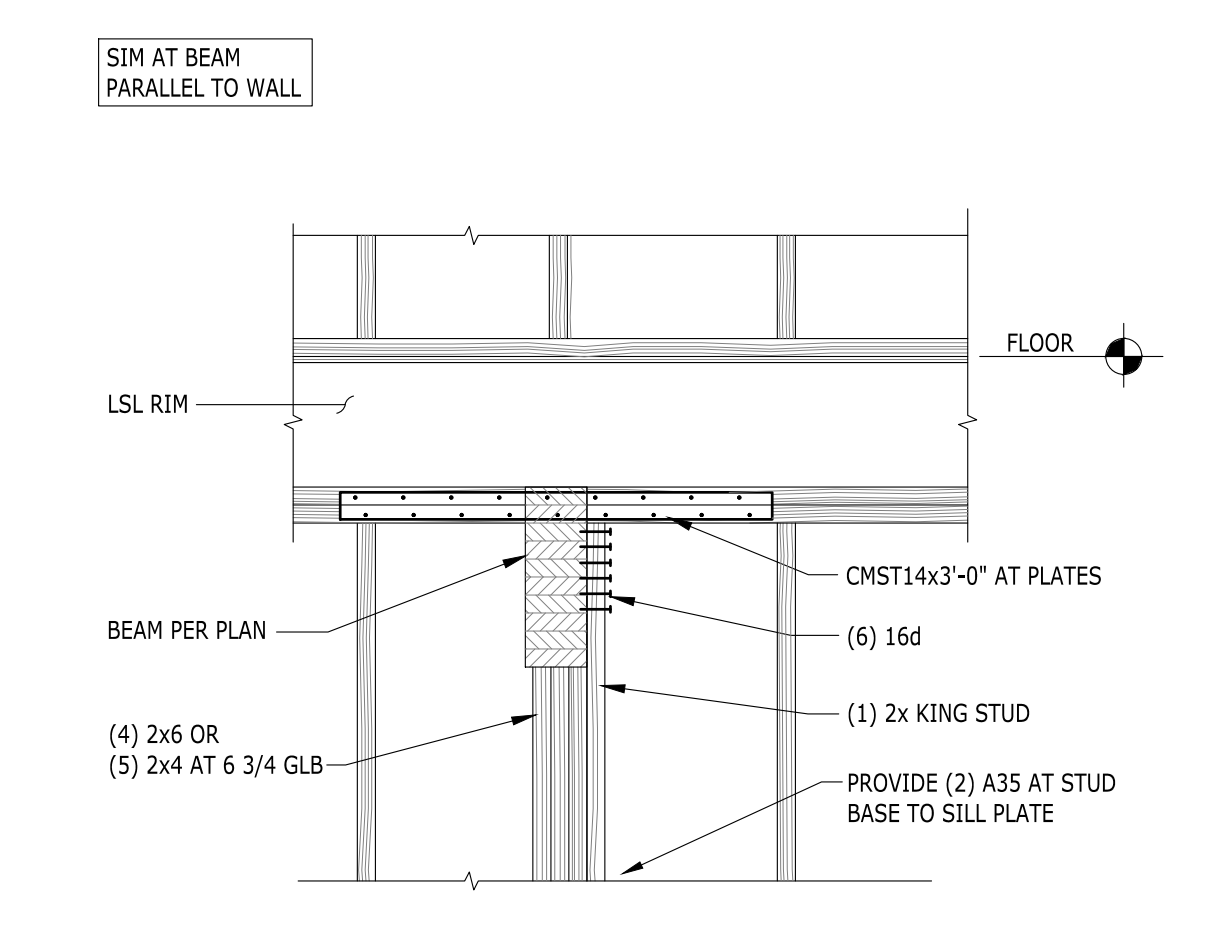
7 CONSTRUCTION/CONTROL JOINT DETAILS



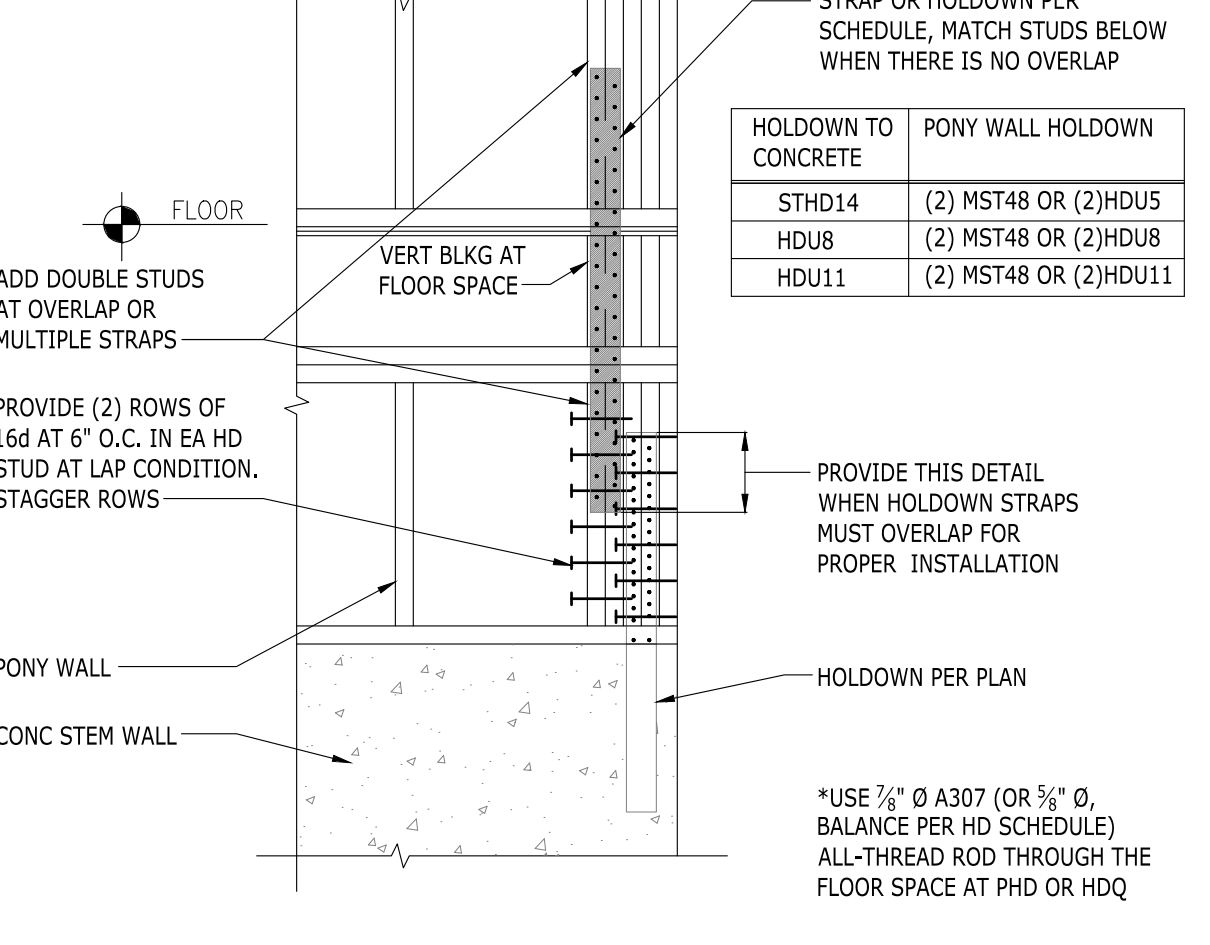
11 HOLDOWN DETAIL



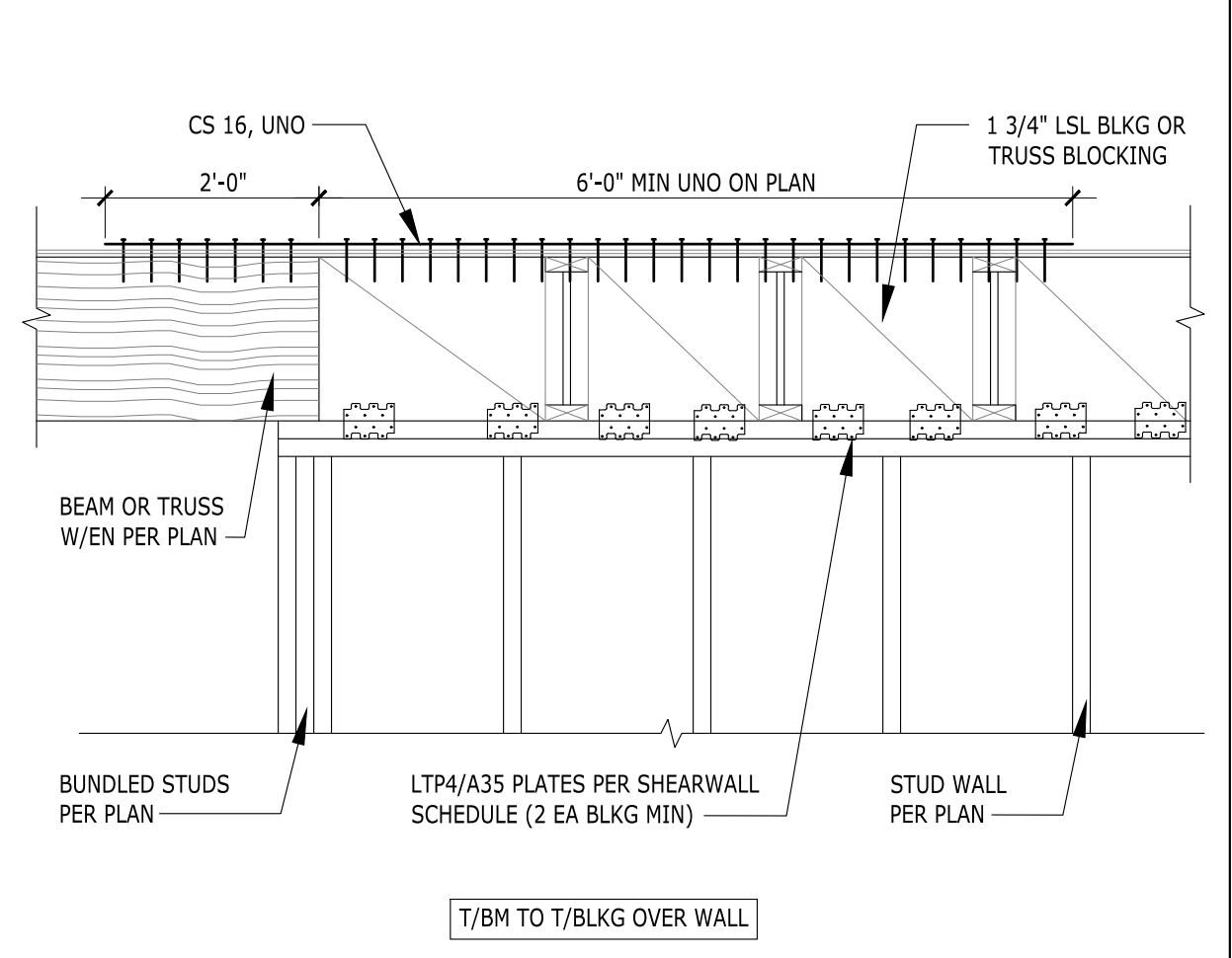
14 TENSION TIE AT FLOOR FRAMING



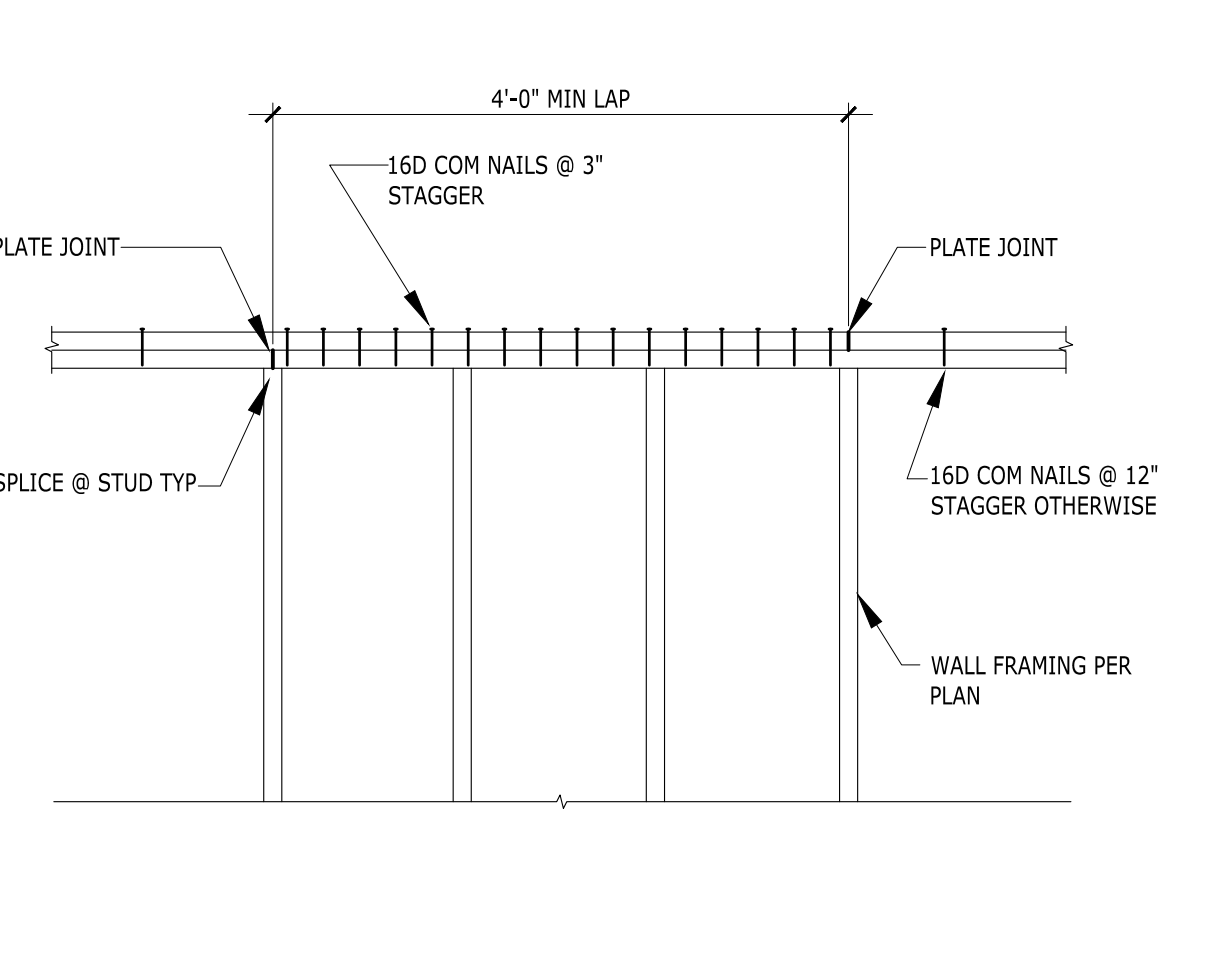
13 BEAM AT DISCONTINUOUS TOP PLATES



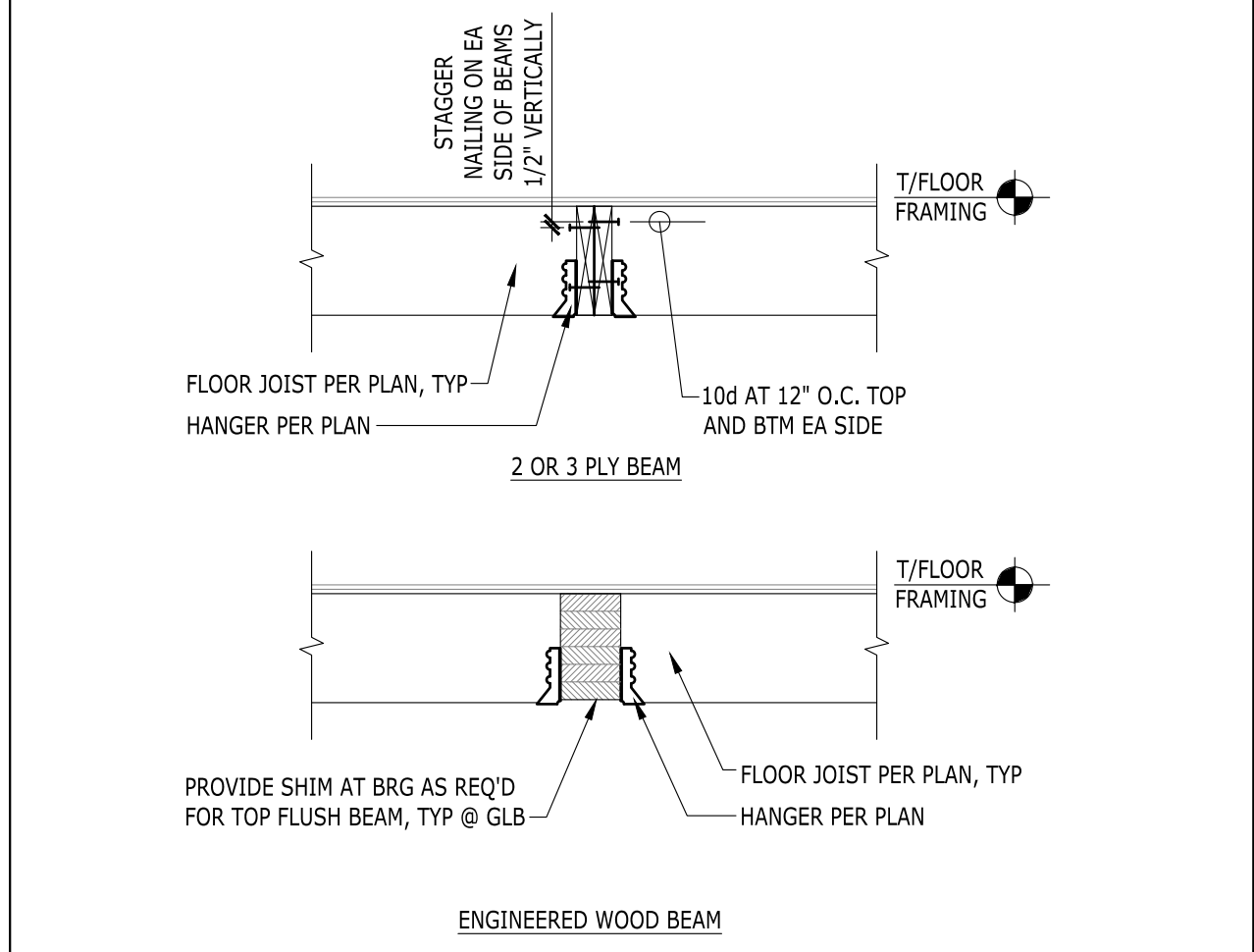
12 OVERLAP STRAP AT PONY WALL



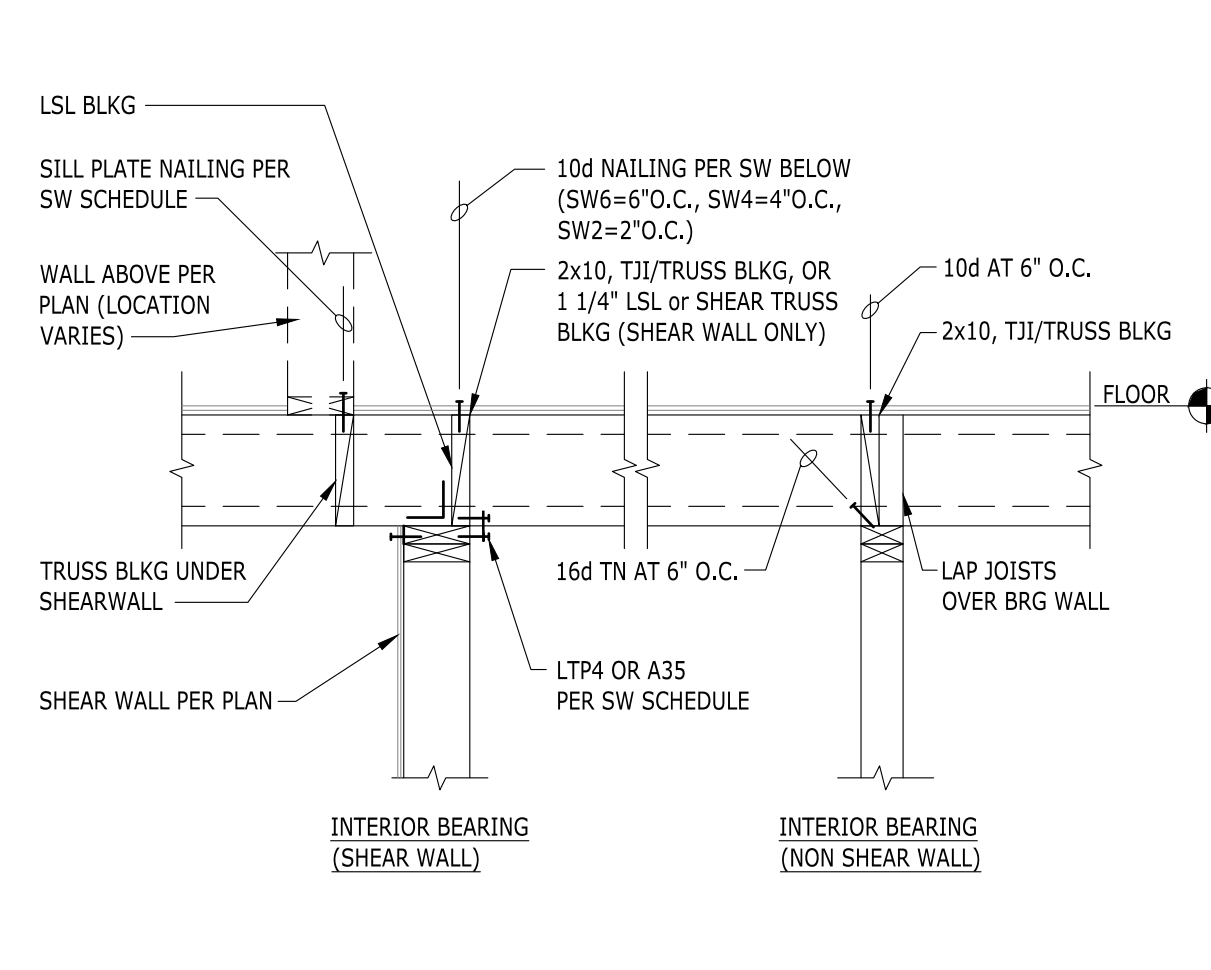
16 TENSION TIE T/BEAM TO T/BLKG



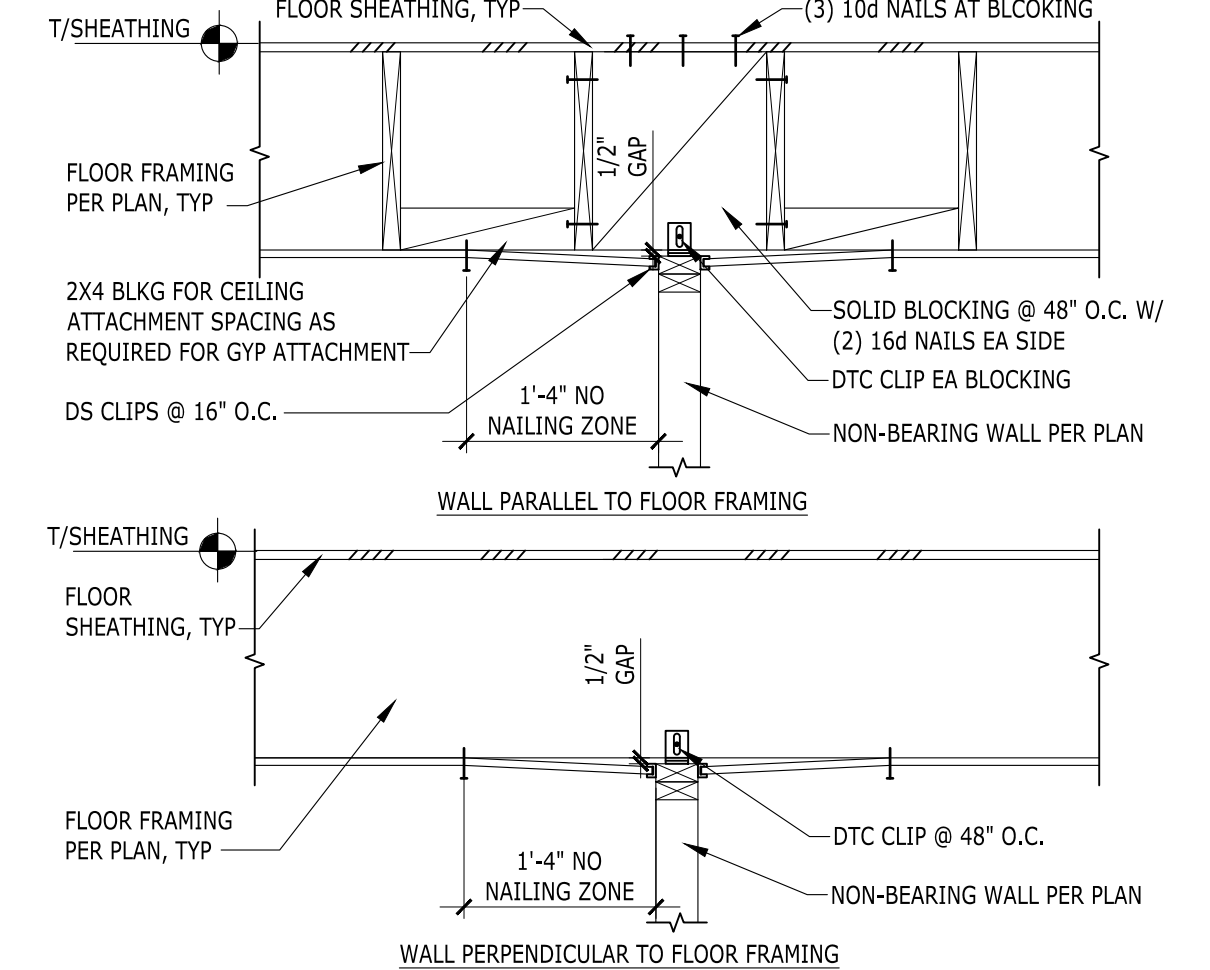
20 ELEVATION TOP PLATE SPLICE



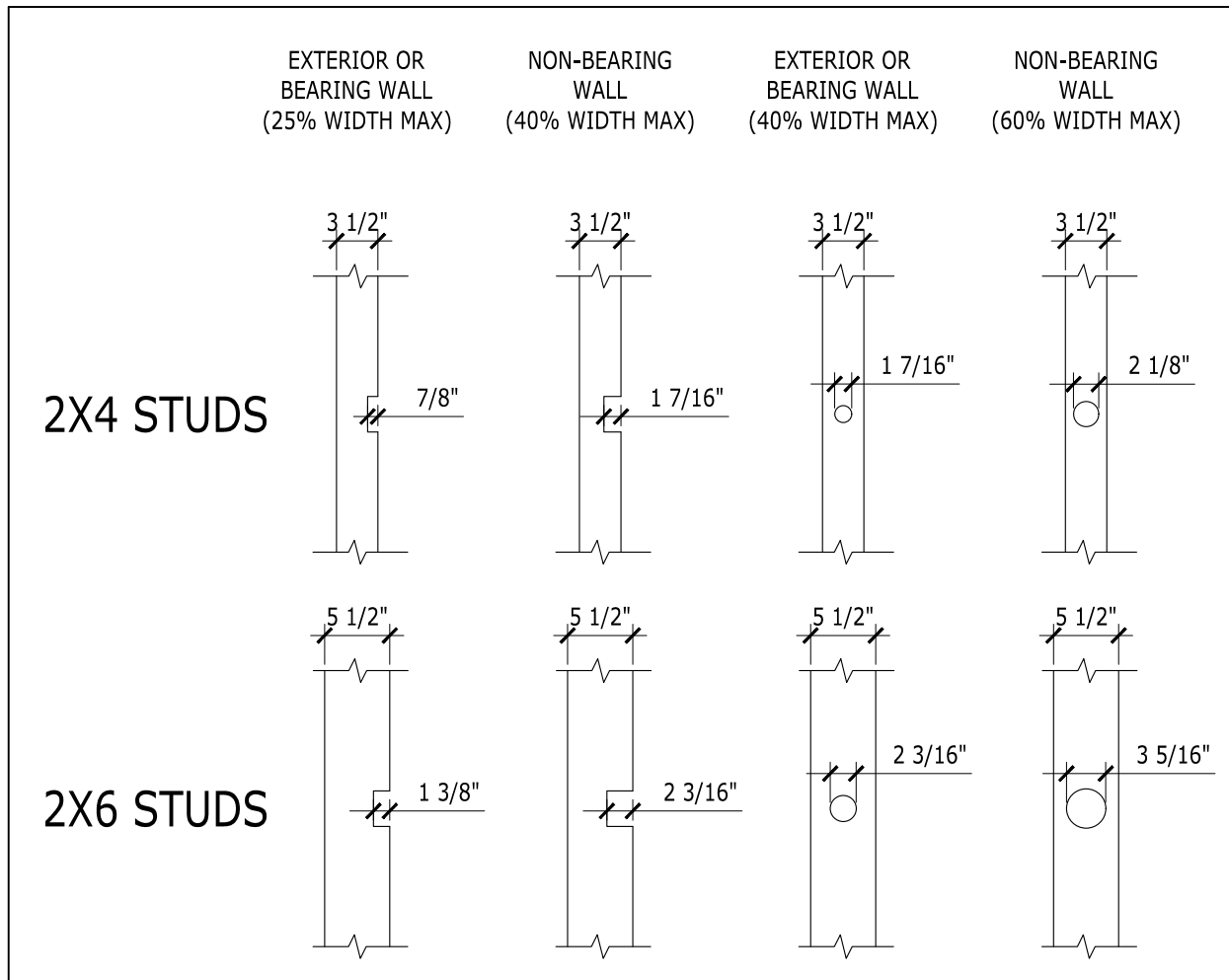
19 JOISTS TO FLUSH BEAM CONNECTION



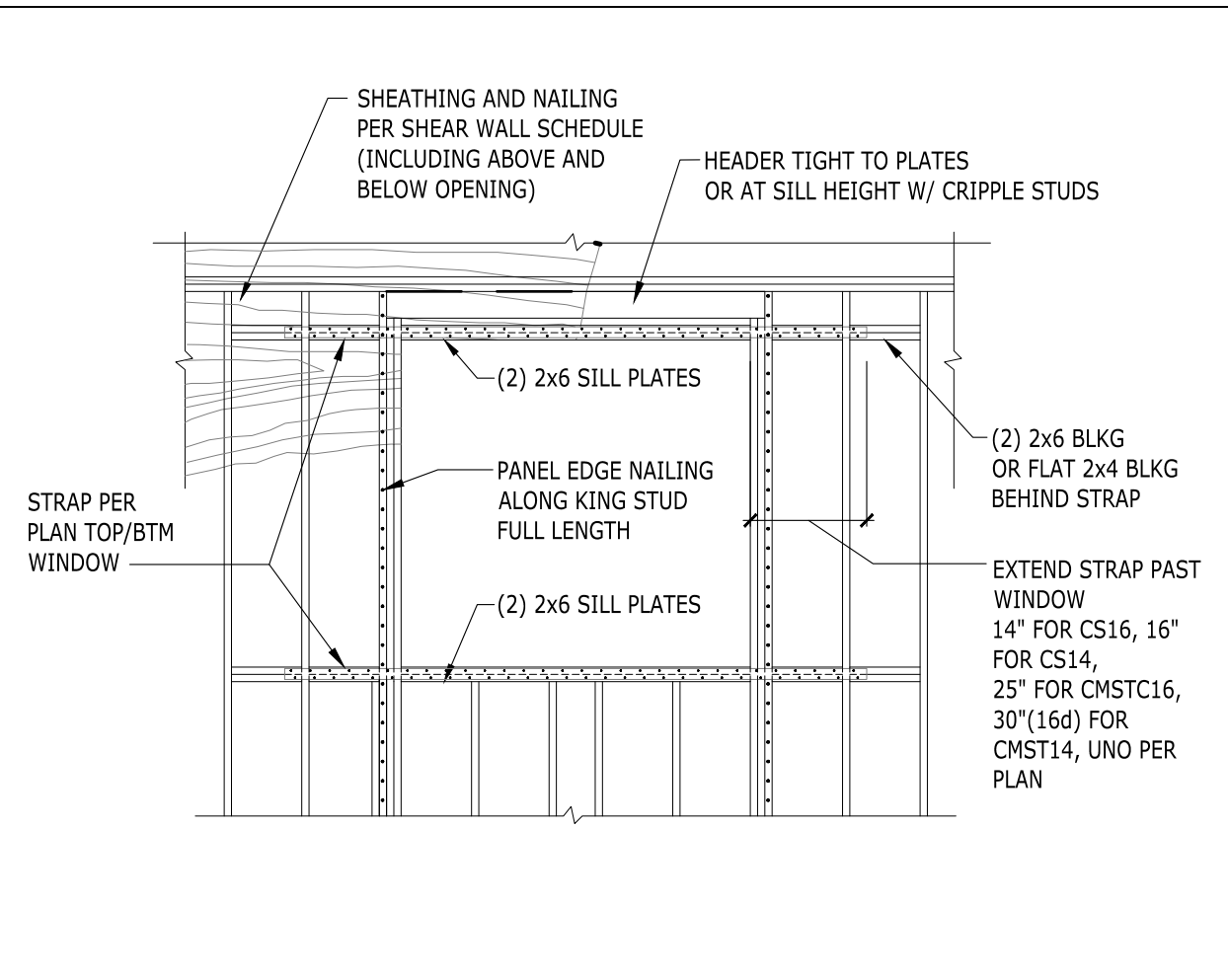
18 FLOOR FRAMING AT INTERIOR BEARING WALL



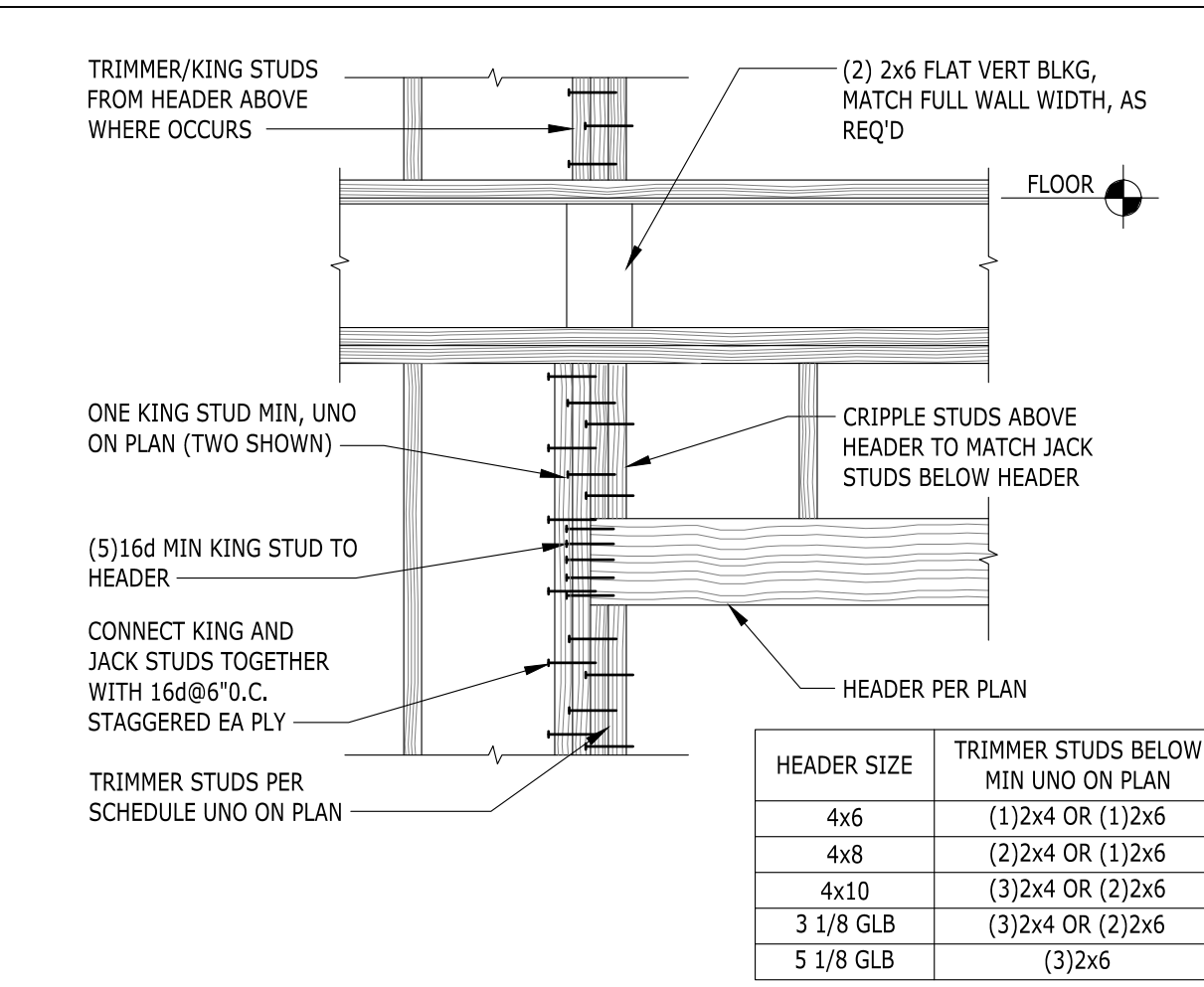
17 CEILING FRAMING AT NON-BEARING WALL



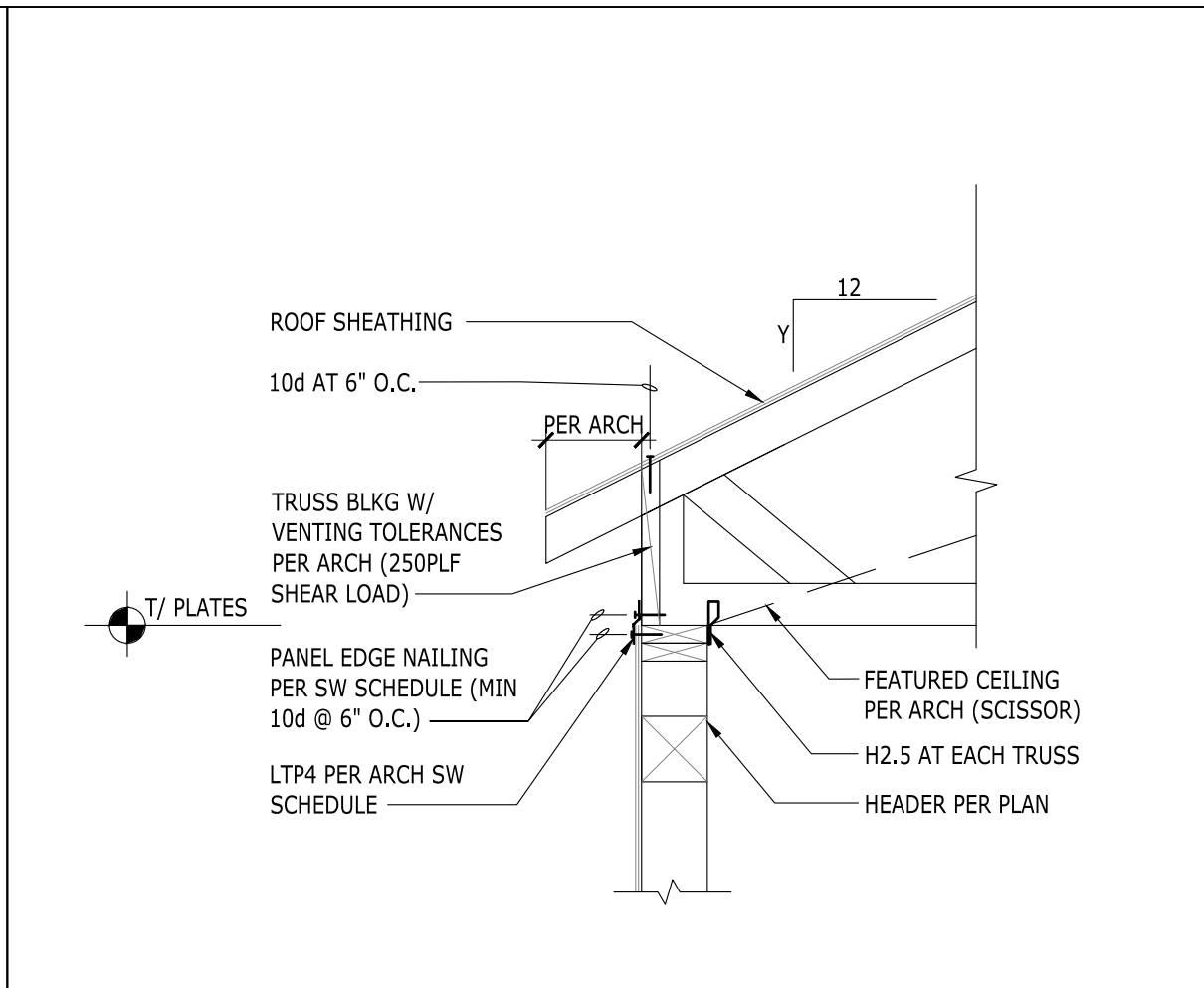
1 ALLOWABLE STUD NOTCHING AND BORING



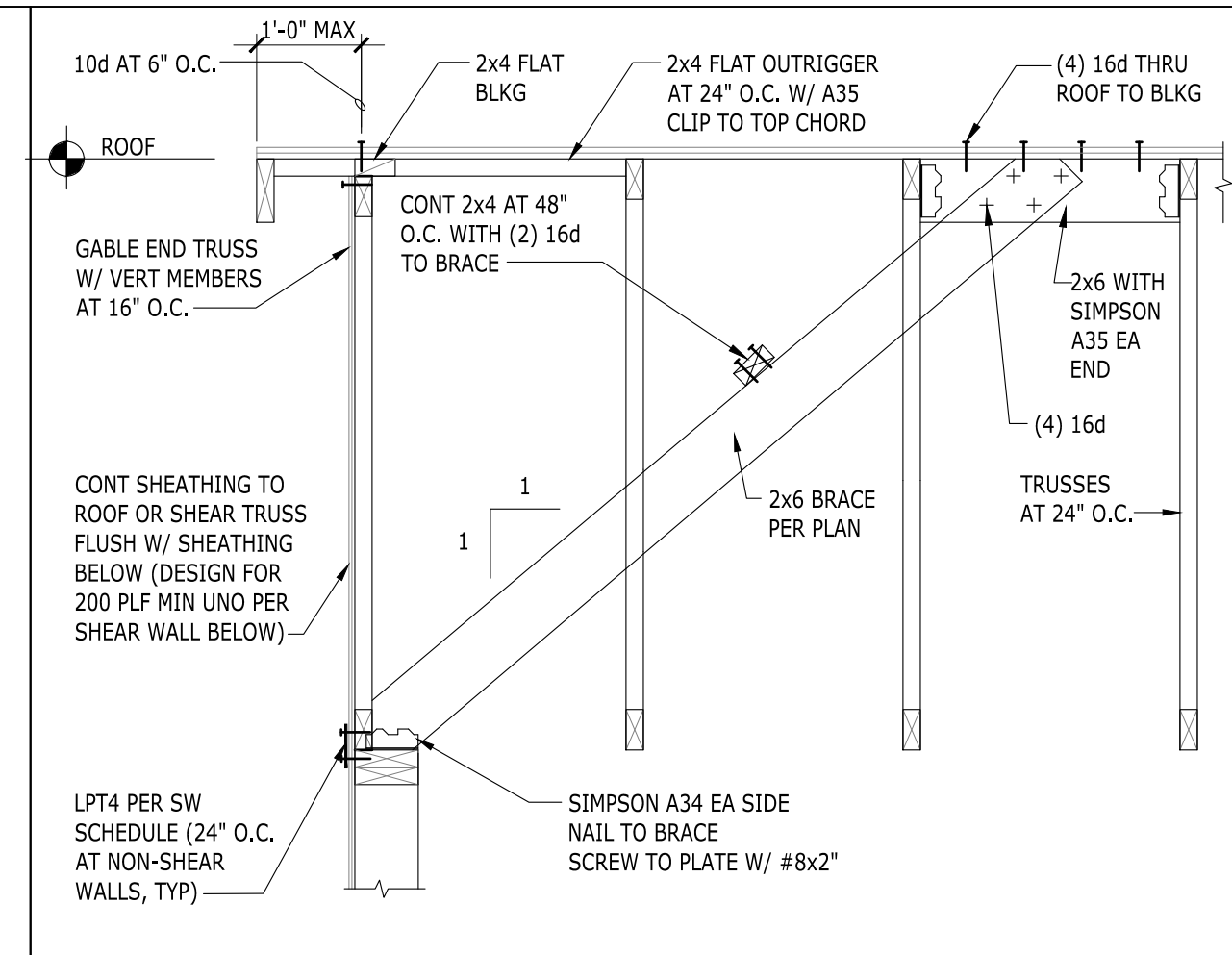
2 STRAPS AROUND WINDOWS



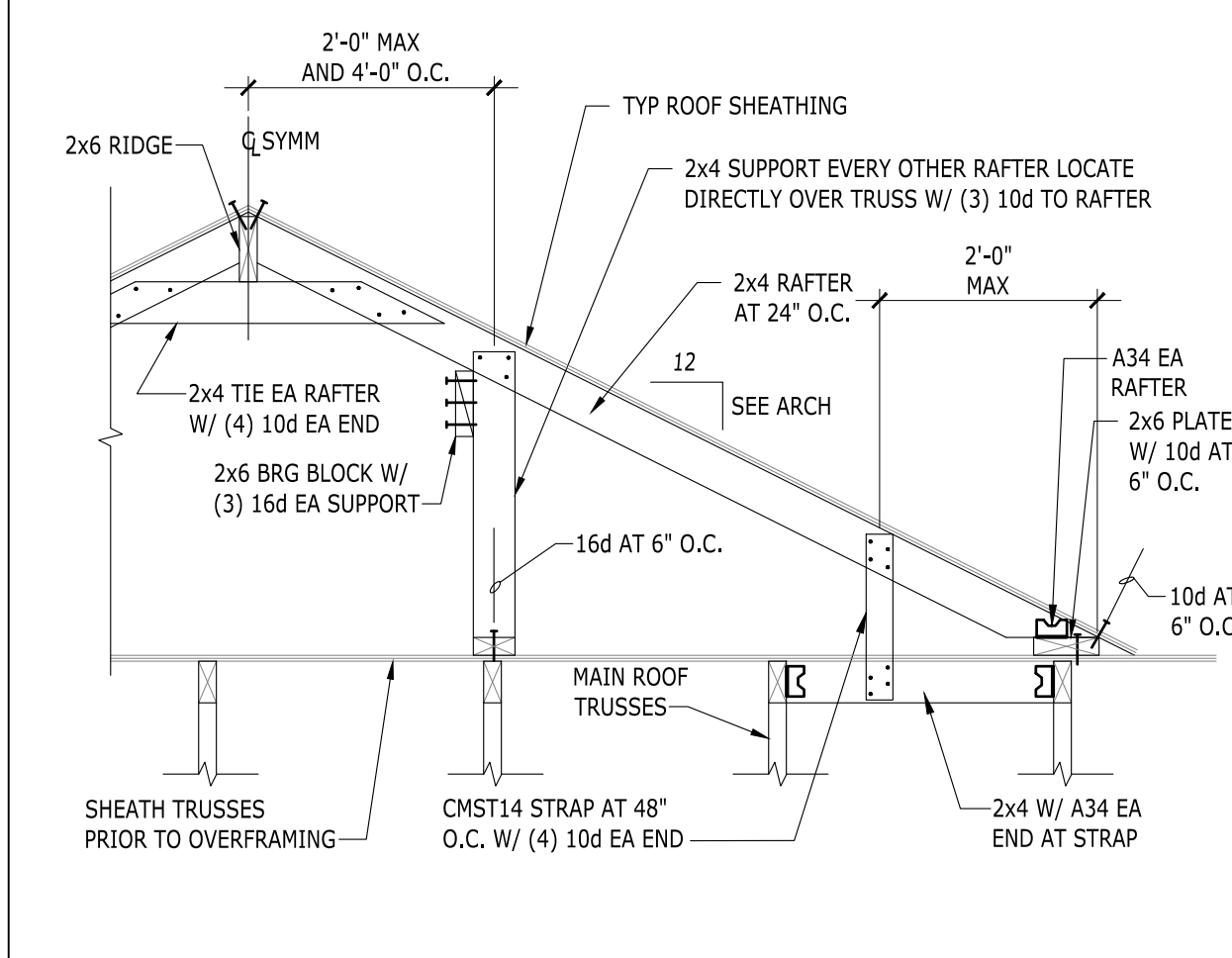
3 TYPICAL HEADER FRAMING



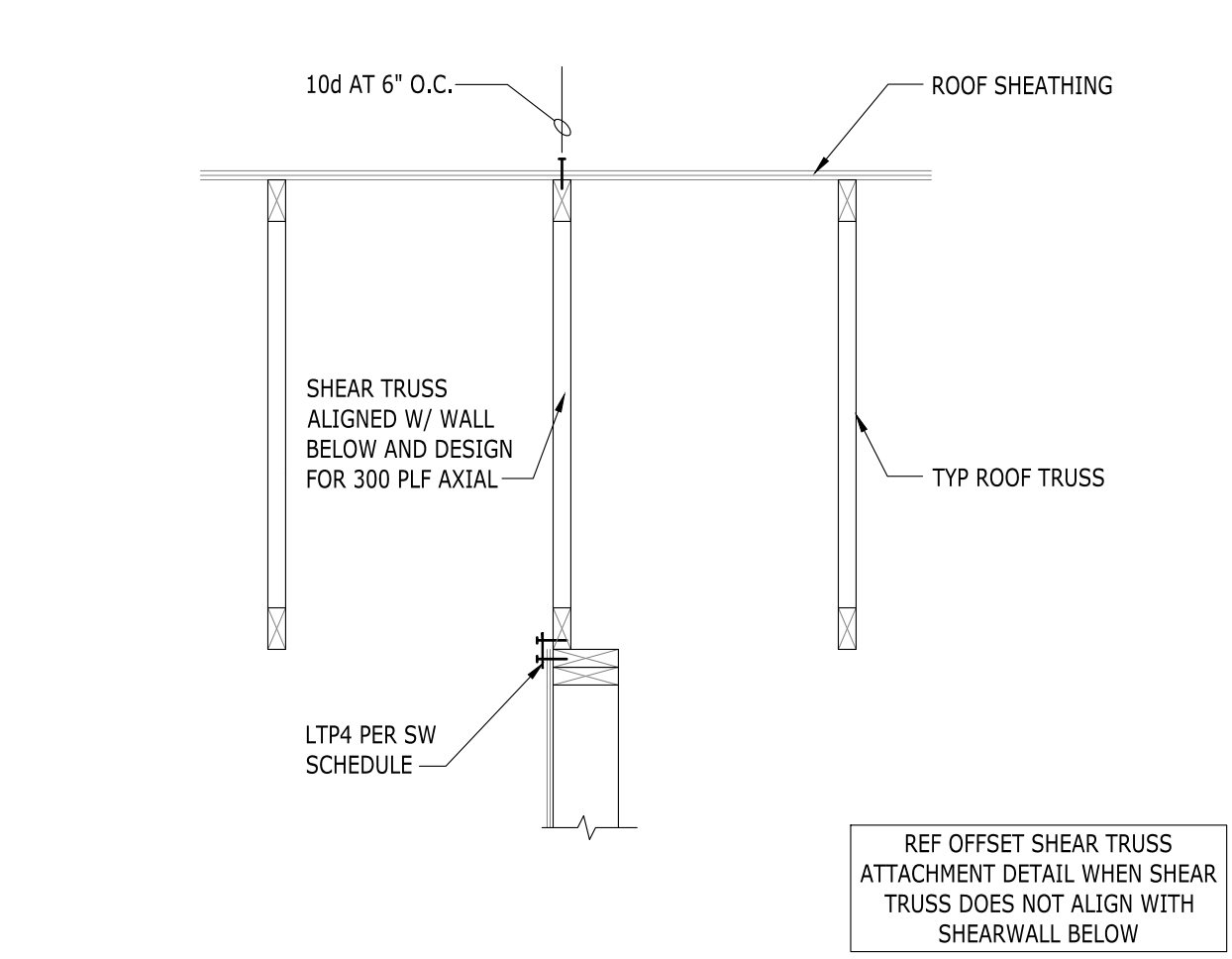
4 TALL HEEL ROOF TRUSS



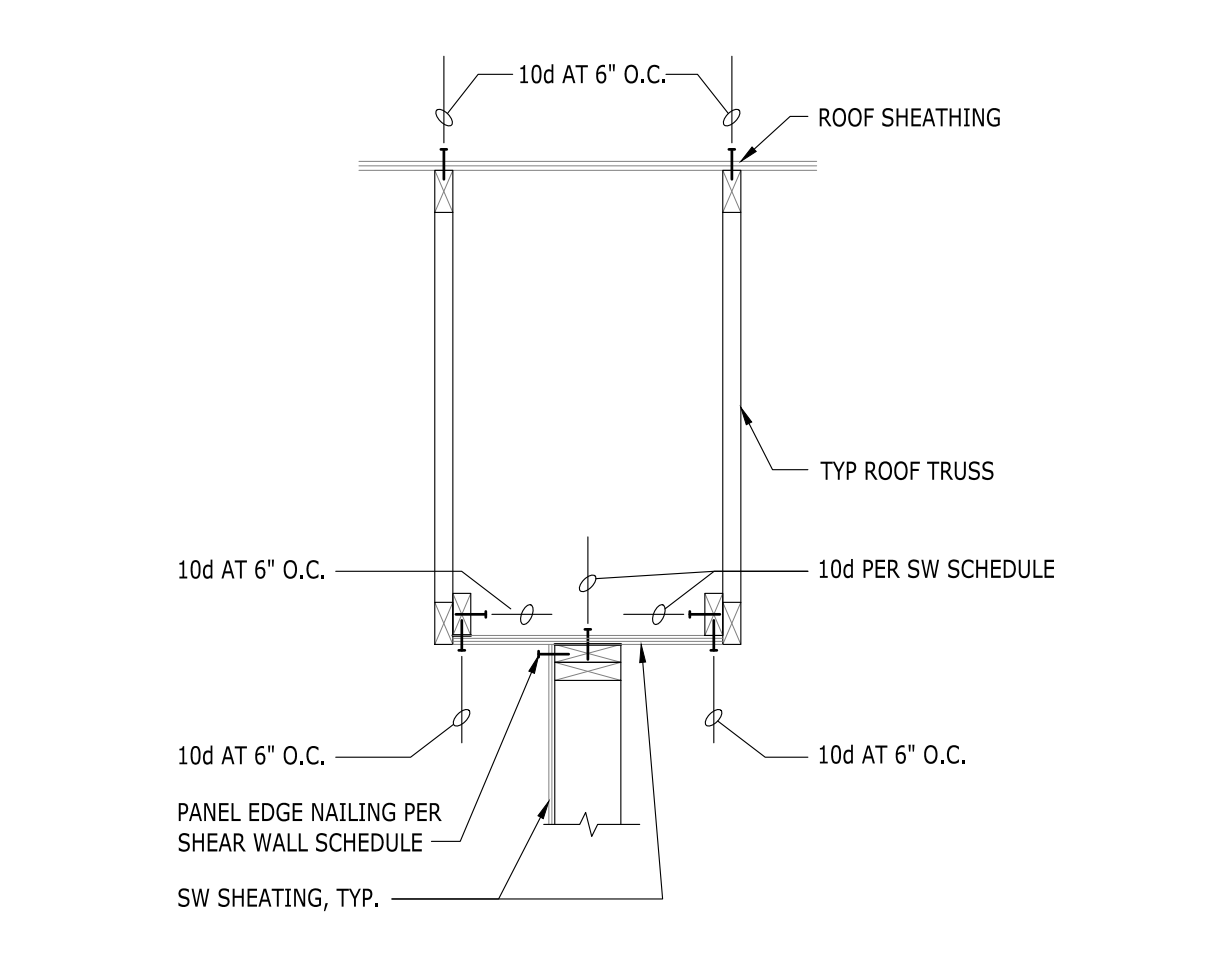
5 GABLE END FRAMING



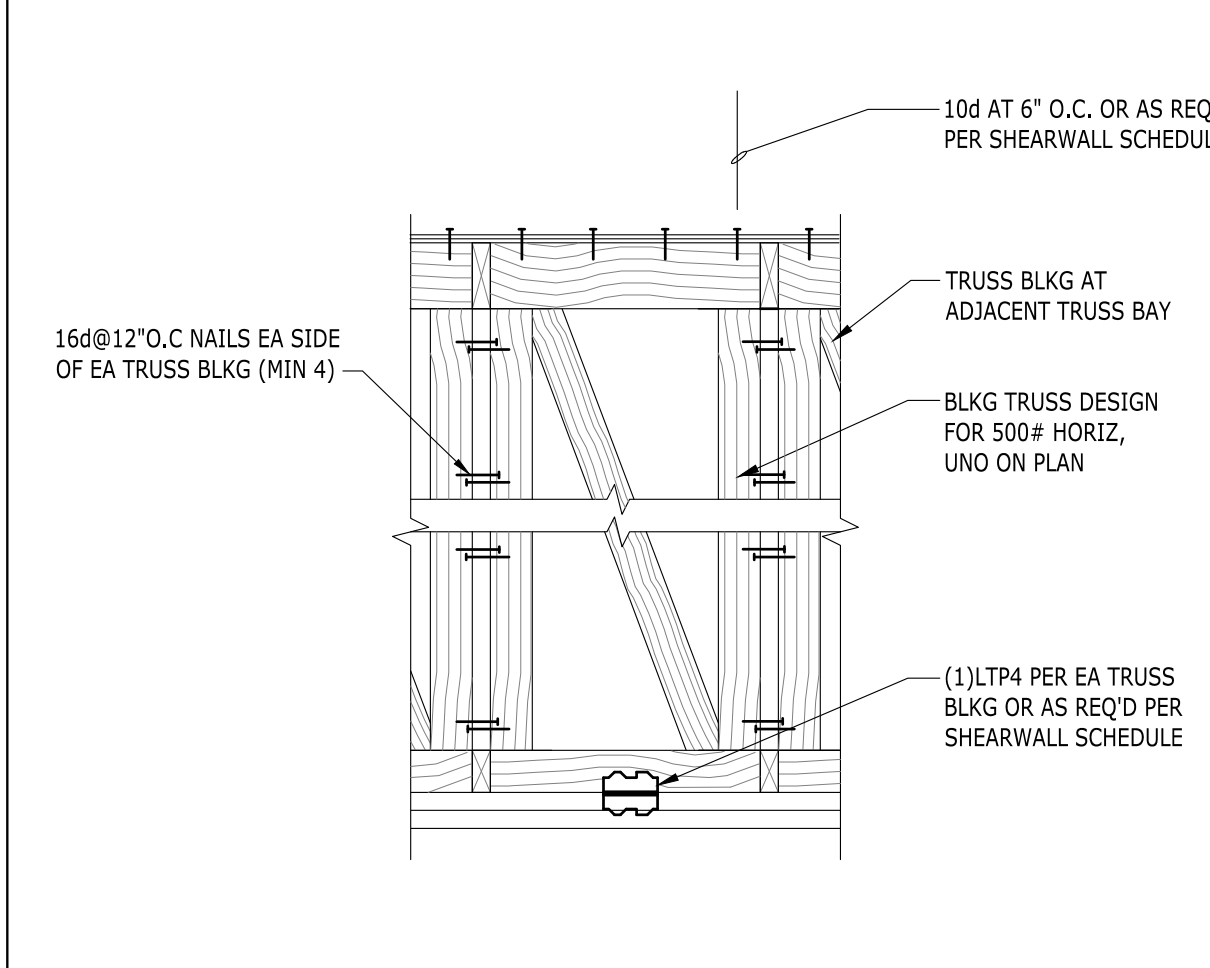
6 ROOF OVERFRAMING



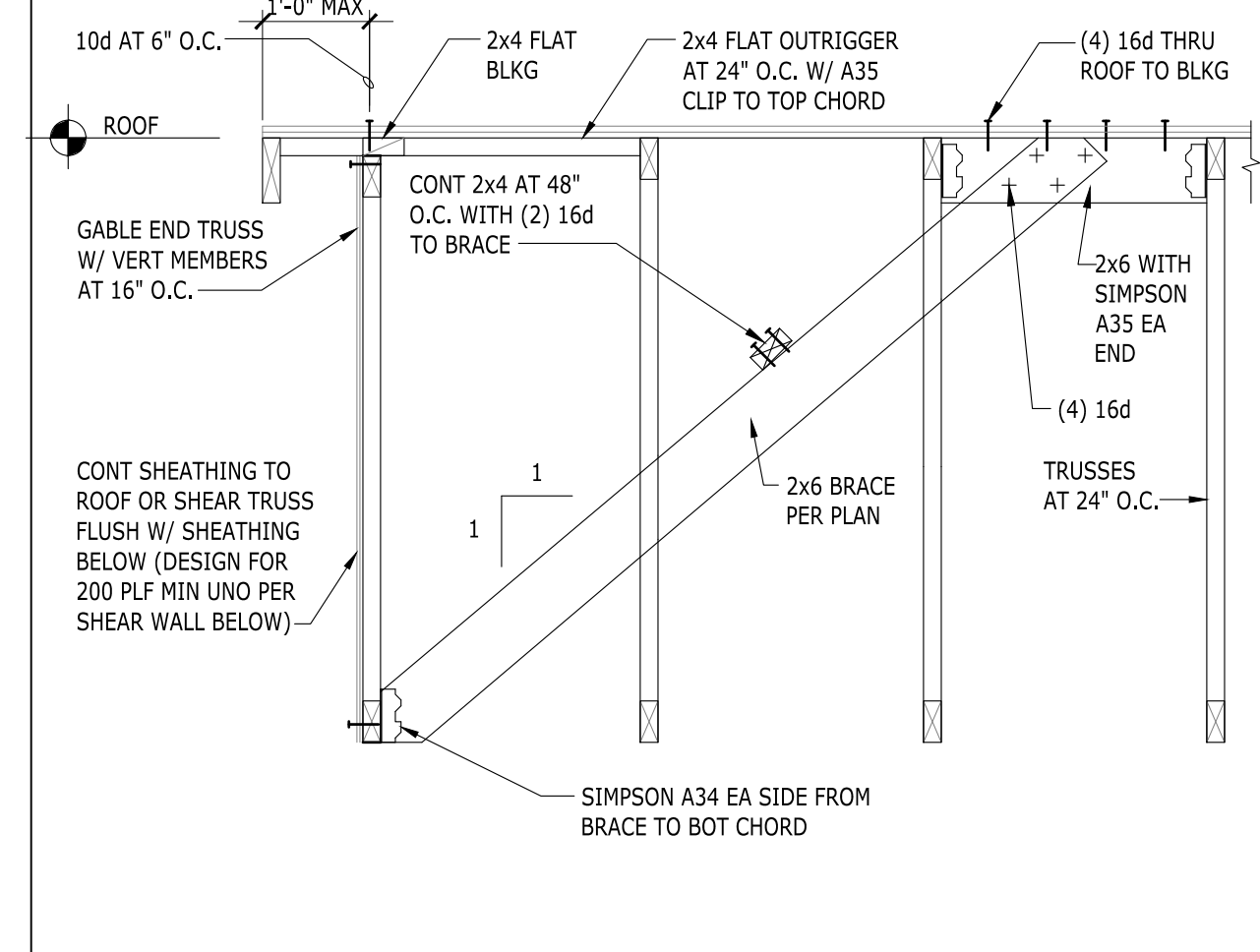
7 PARALLEL TRUSS AT SHEAR WALL



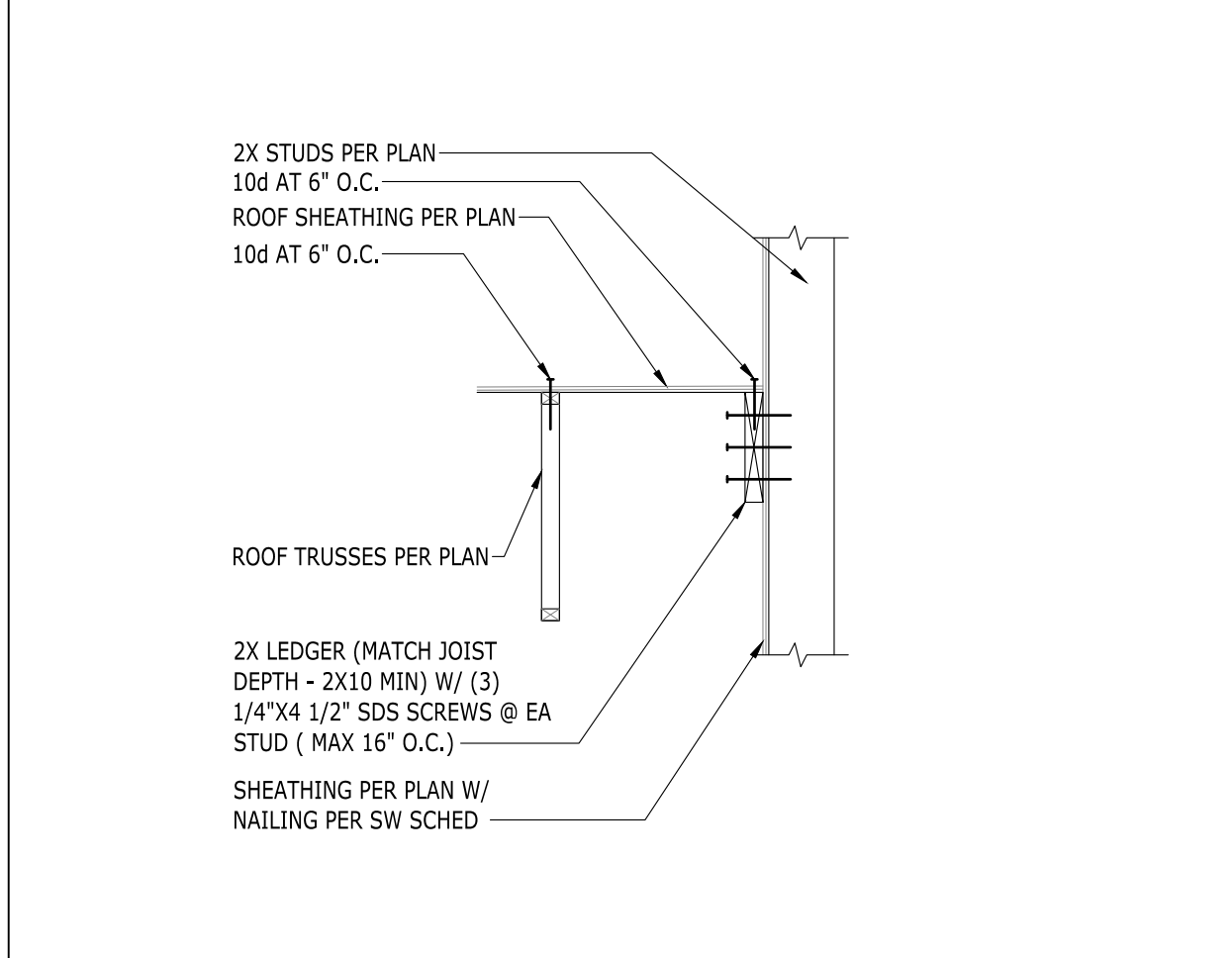
8 OFFSET SHEAR TRUSS ATTACHMENT



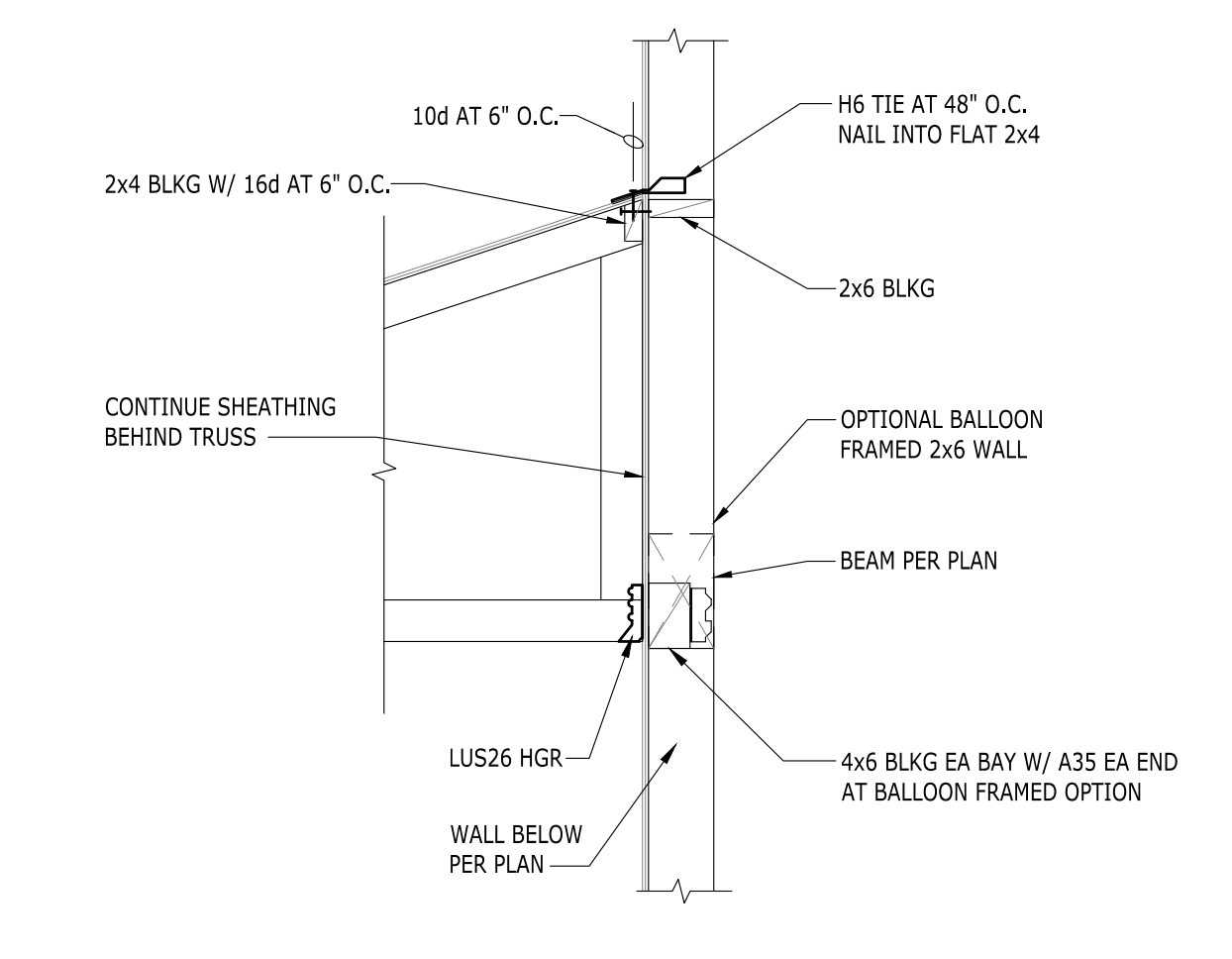
9 TYPICAL TRUSS BLOCKING



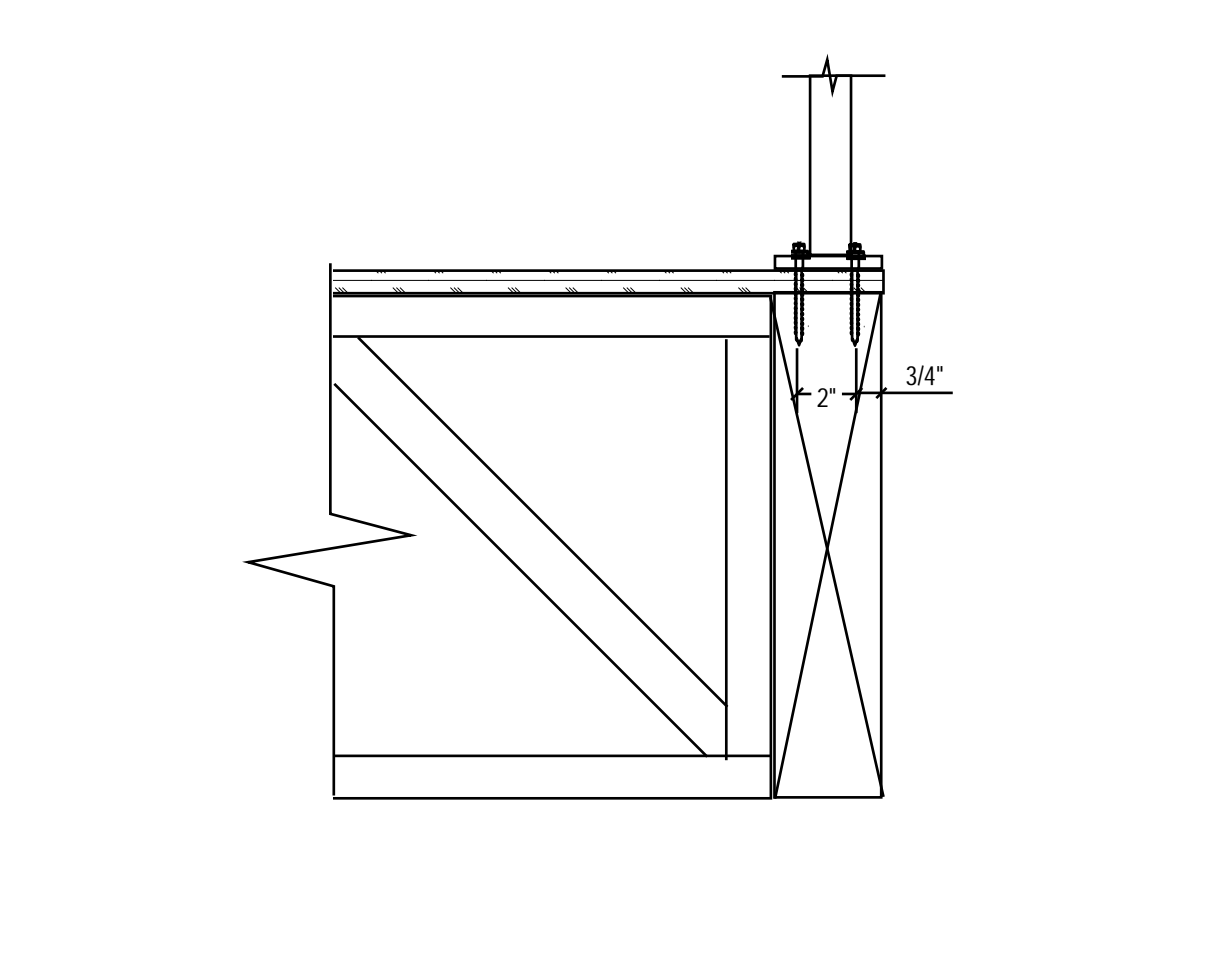
10 GABLE END FRAMING OVER DECK



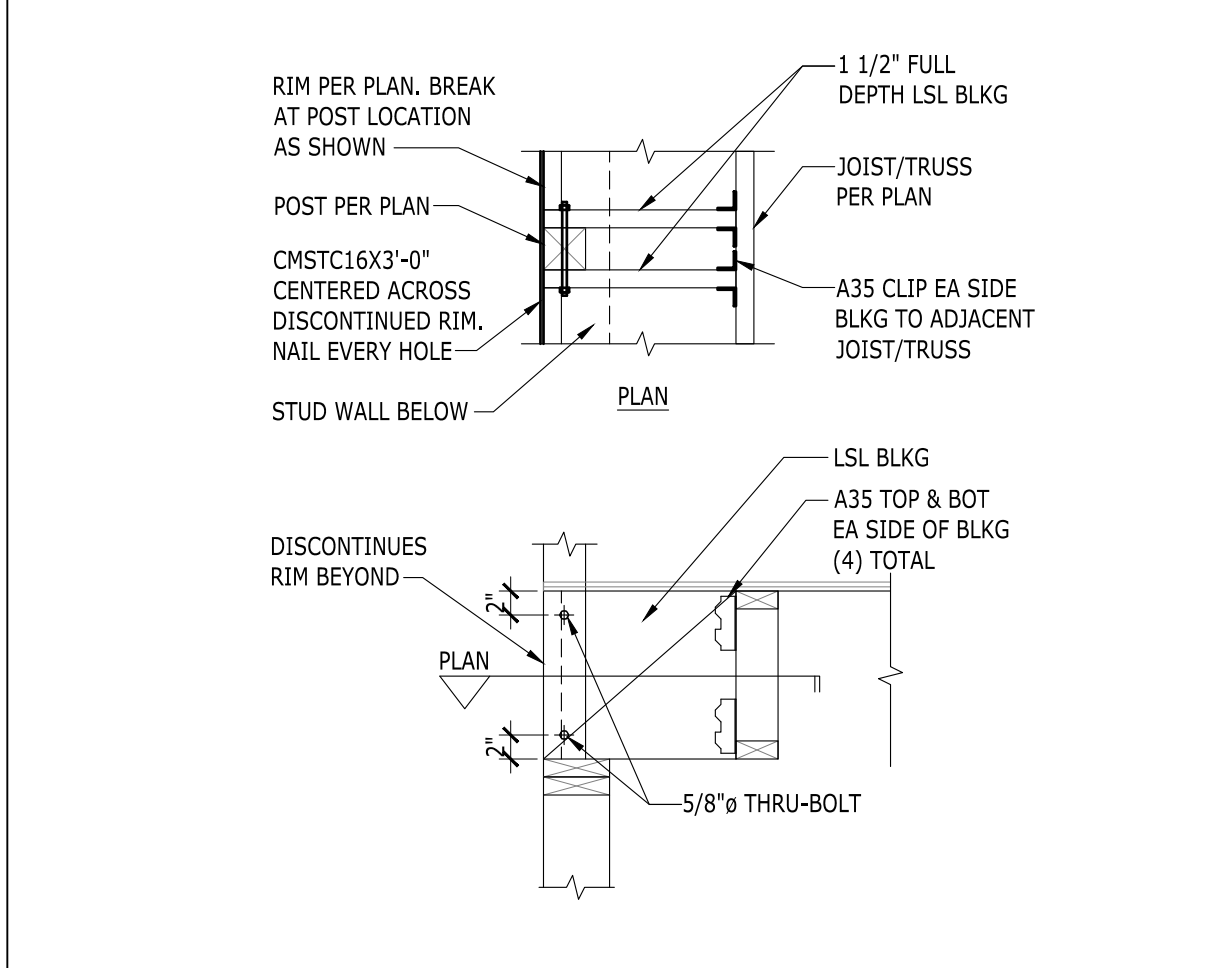
11 LOW ROOF FRAMING (PARALLEL)



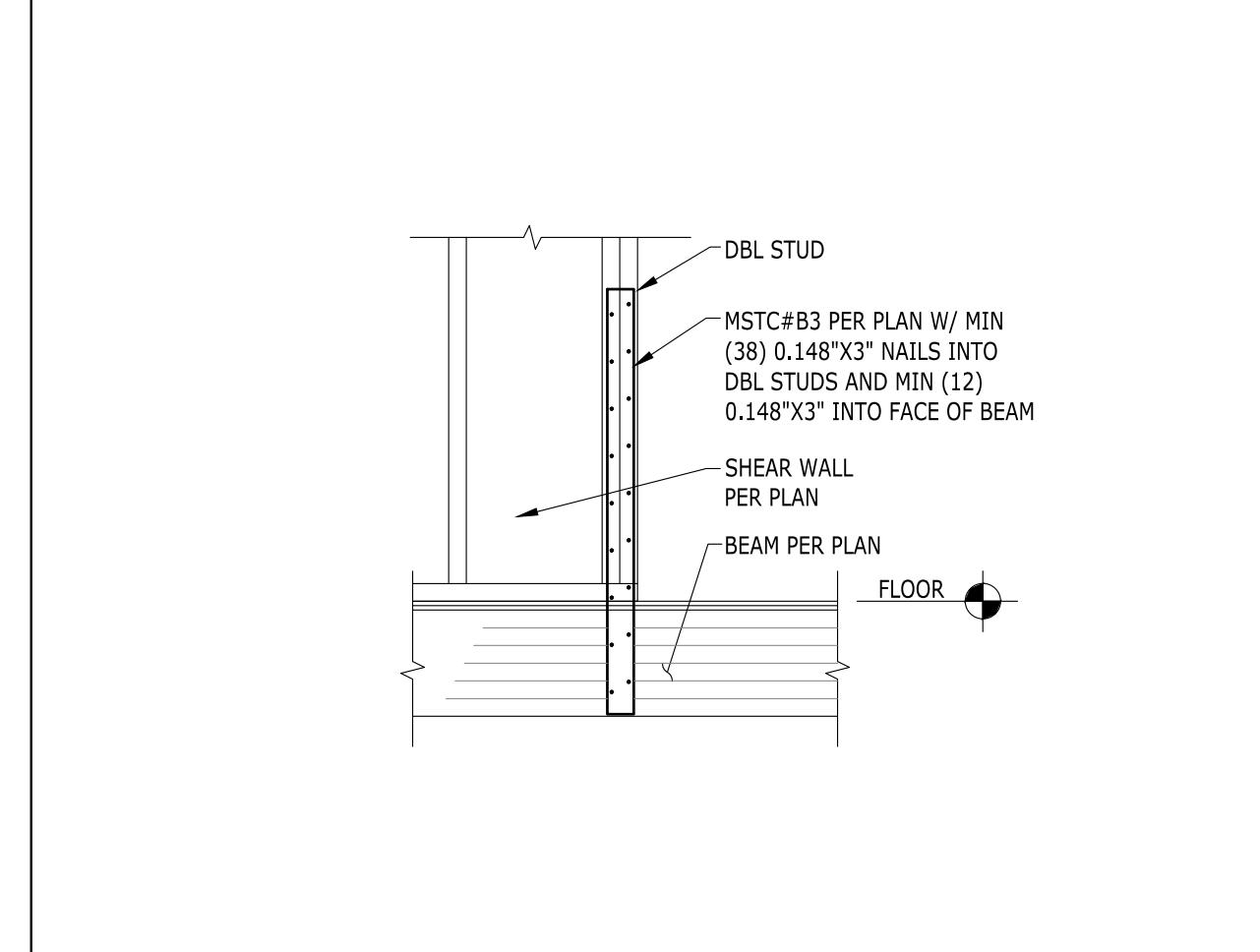
12 LOW ROOF SECTION



13



14 POST THROUGH DECK CONNECTION



15 MSTC HOLDOWN AT BEAM



16



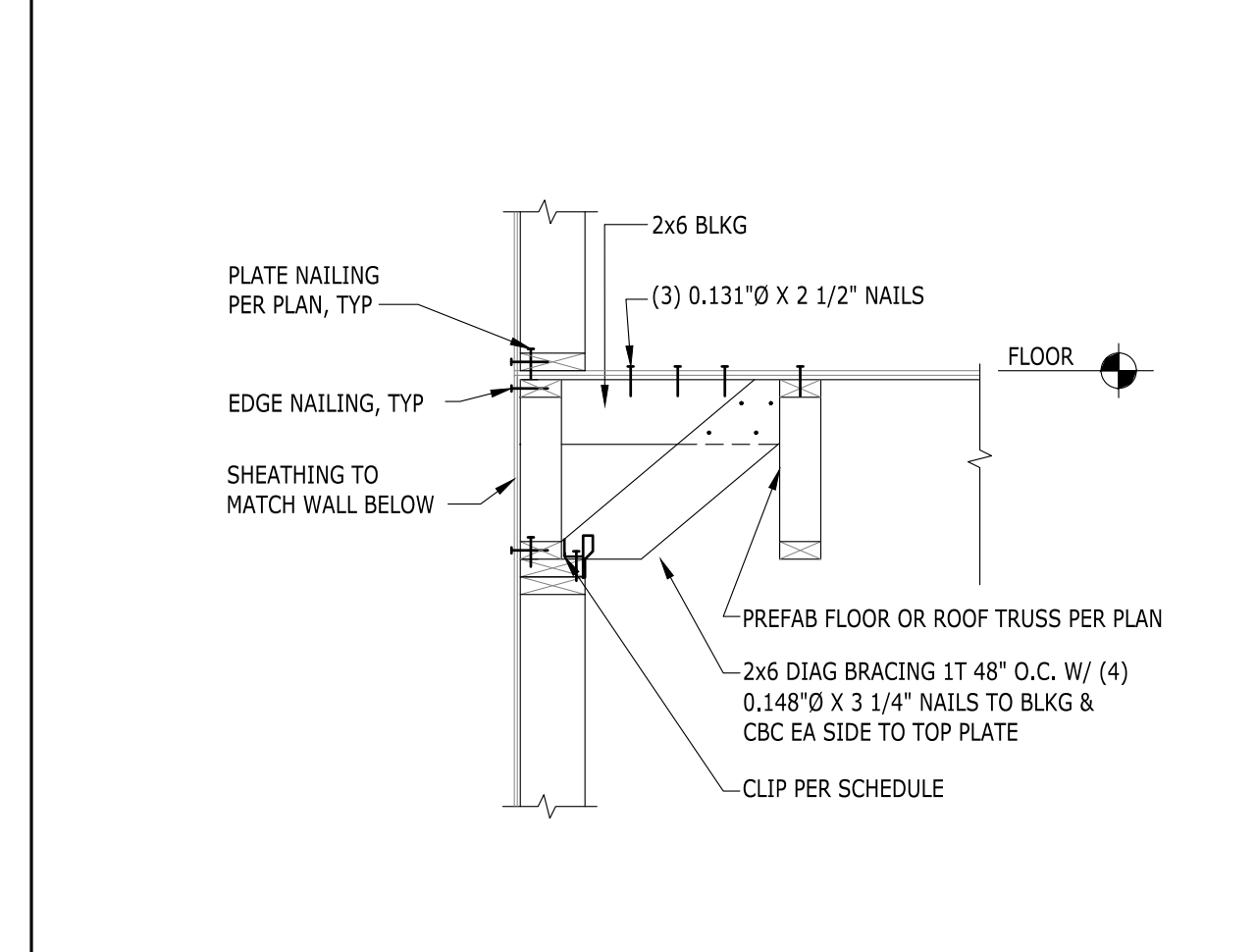
17



18



19



20 SHEAR TRANSFER AT EXTERIOR WALL

LONGITUDE
 ONE TWENTY
 ENGINEERING & DESIGN

REVISIONS		
DESCRIPTION	DATE	BY

PROJECT NAME
GRANBOIS RESIDENCE
 8440 SE 82ND ST,
 MERCER ISLAND

PROJECT NUMBER
S230110-1

DRAWN BY - MR

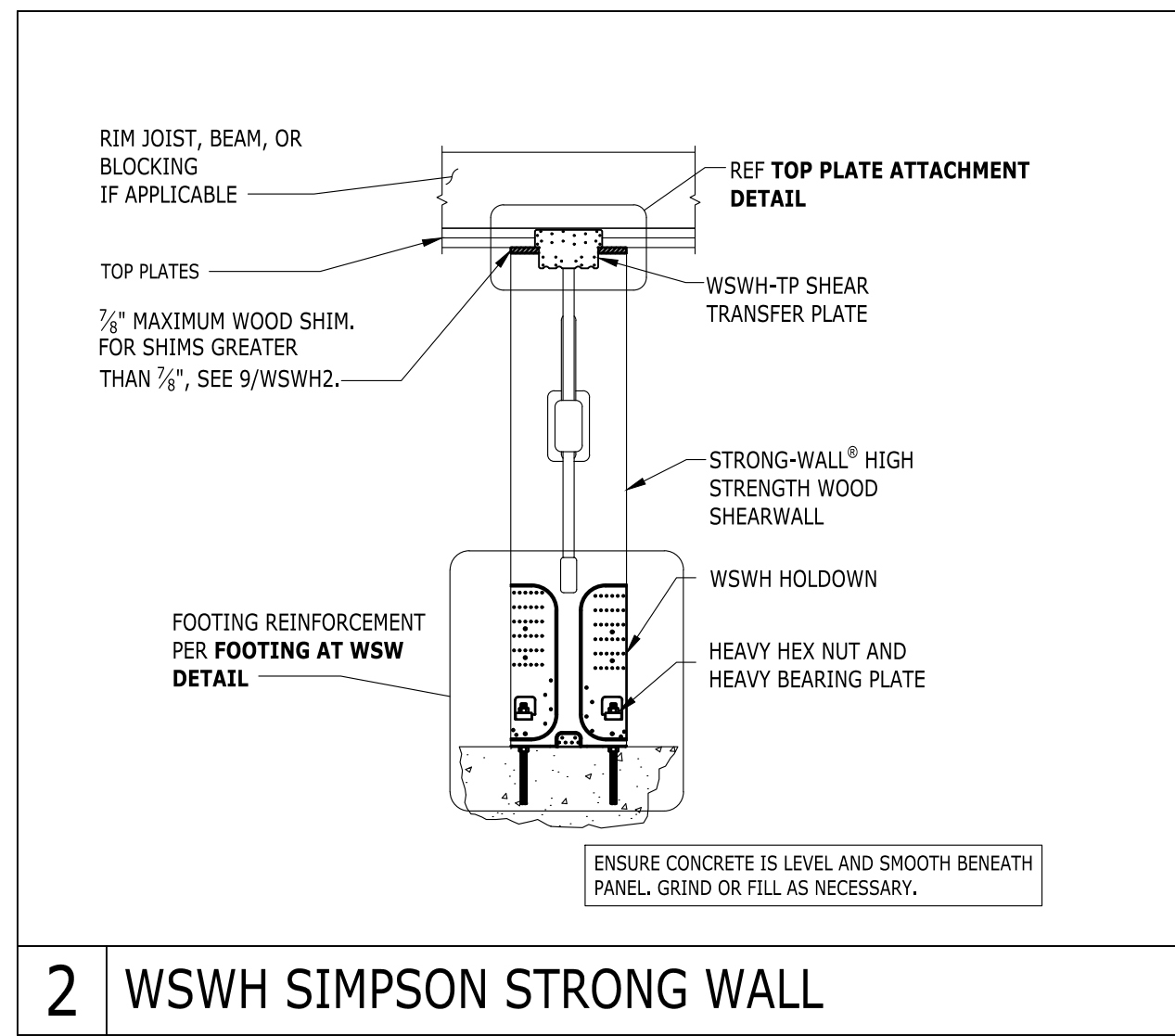
CHECKED BY - MRT

SHEET DATE - 03/15/2023

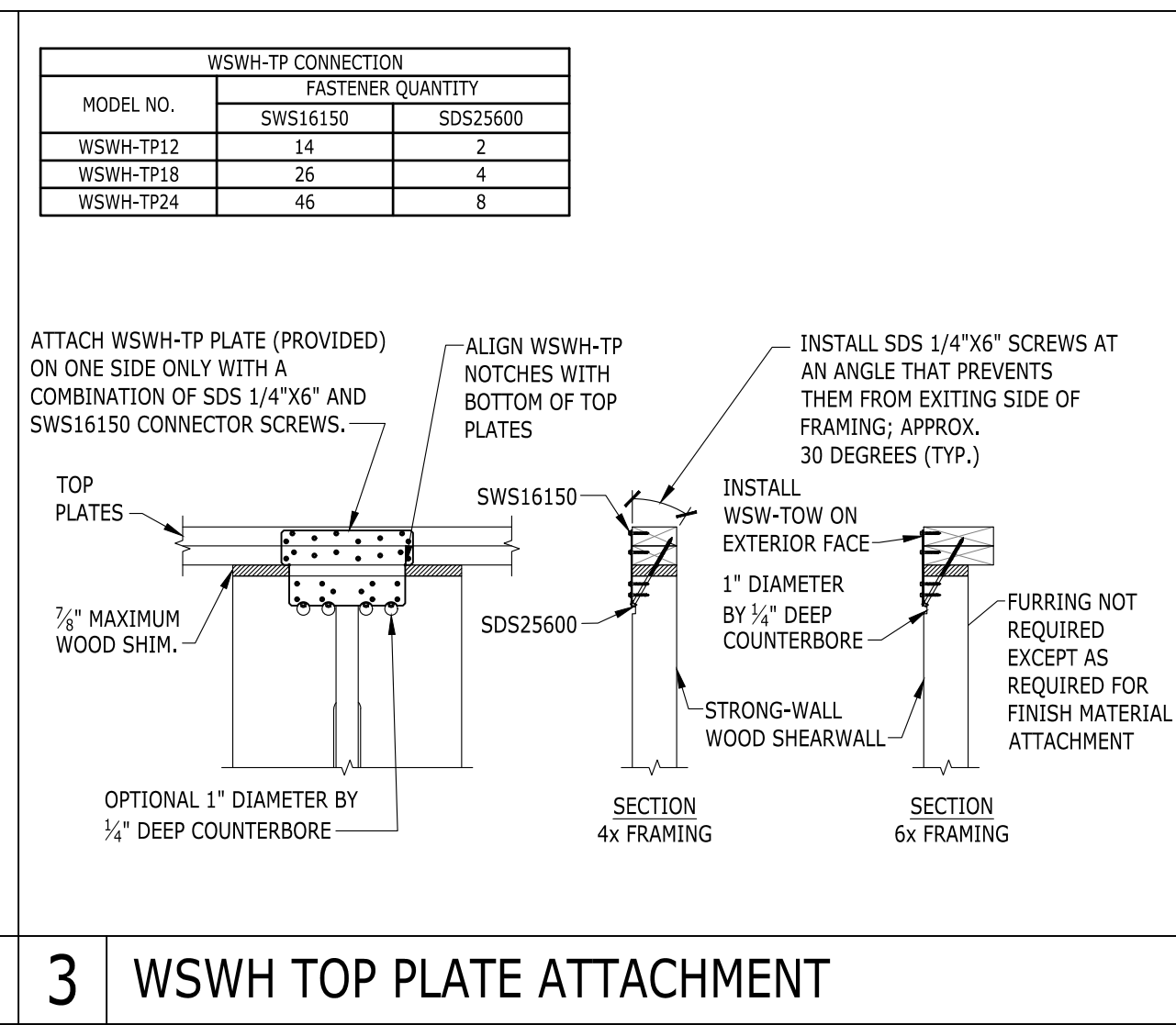
SCALE
 24X36 SHEET: 1/4" = 1'-0"

STRUCTURAL DETAILS

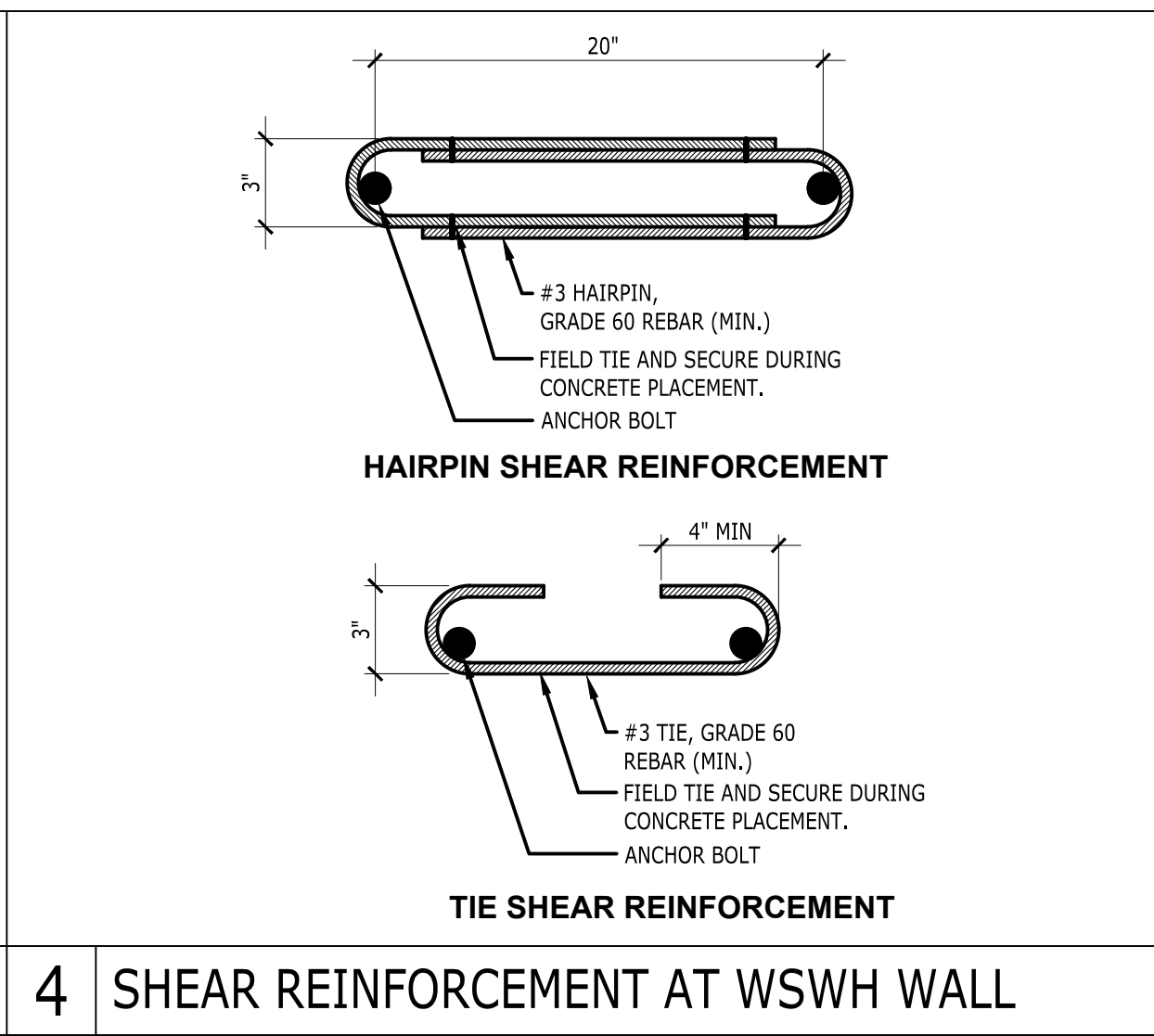
SHEET SD-2



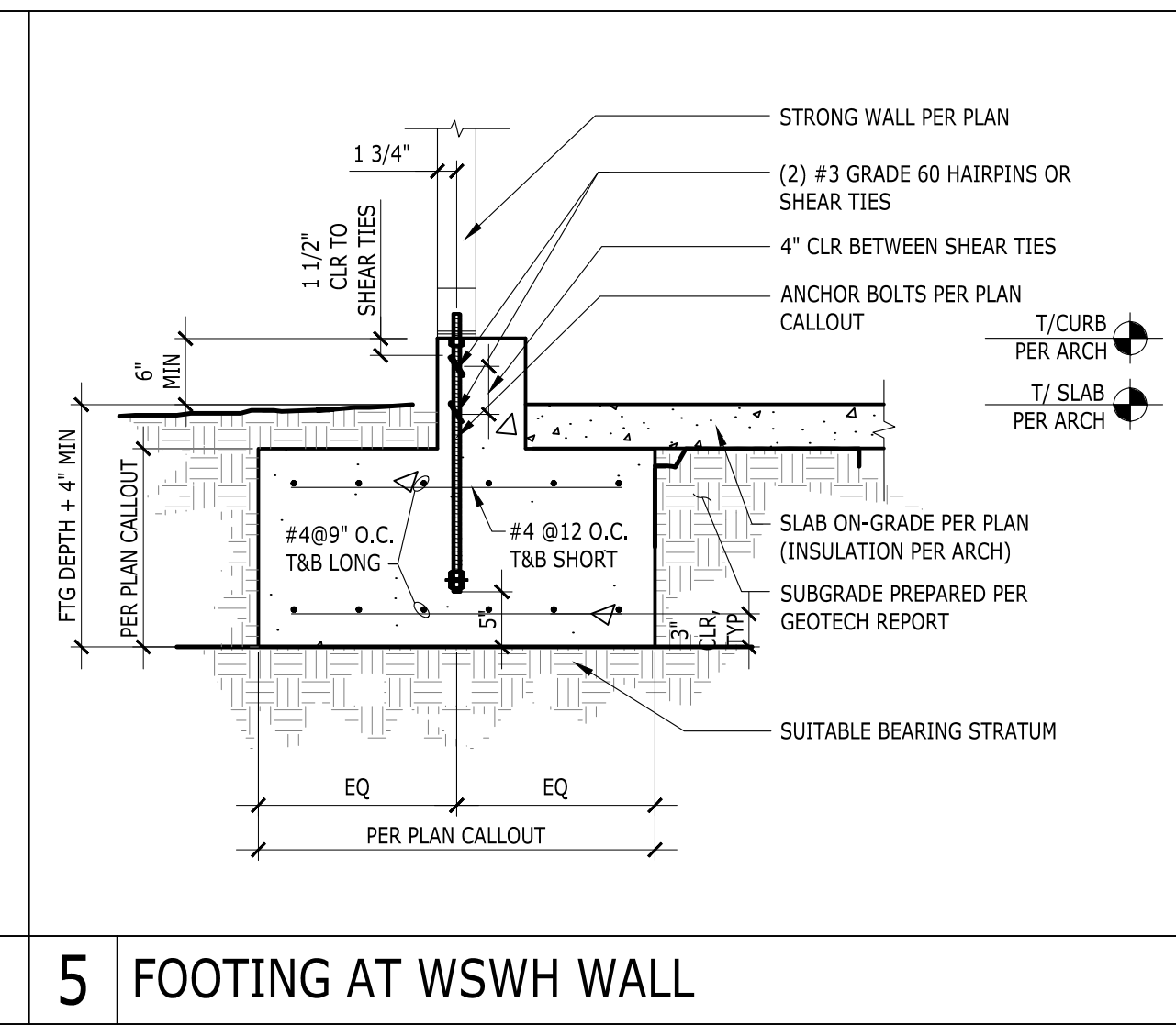
2 WSWH SIMPSON STRONG WALL



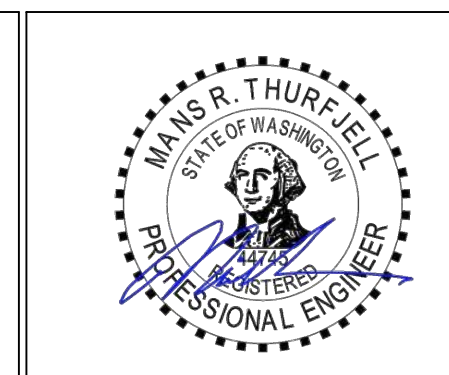
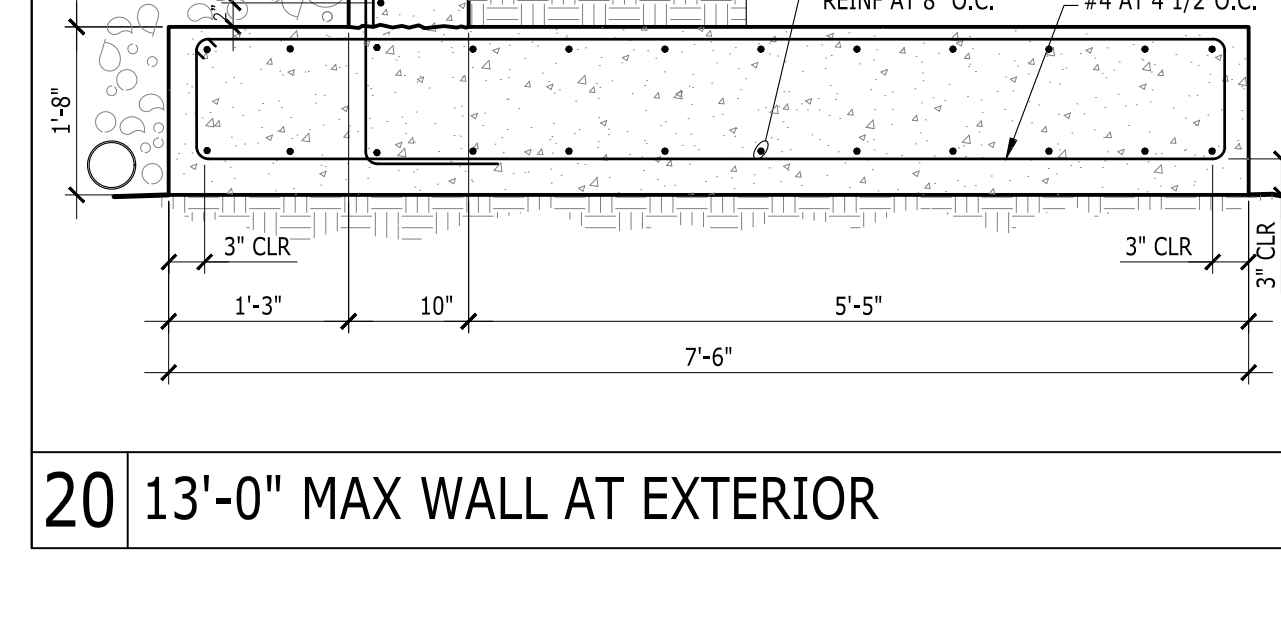
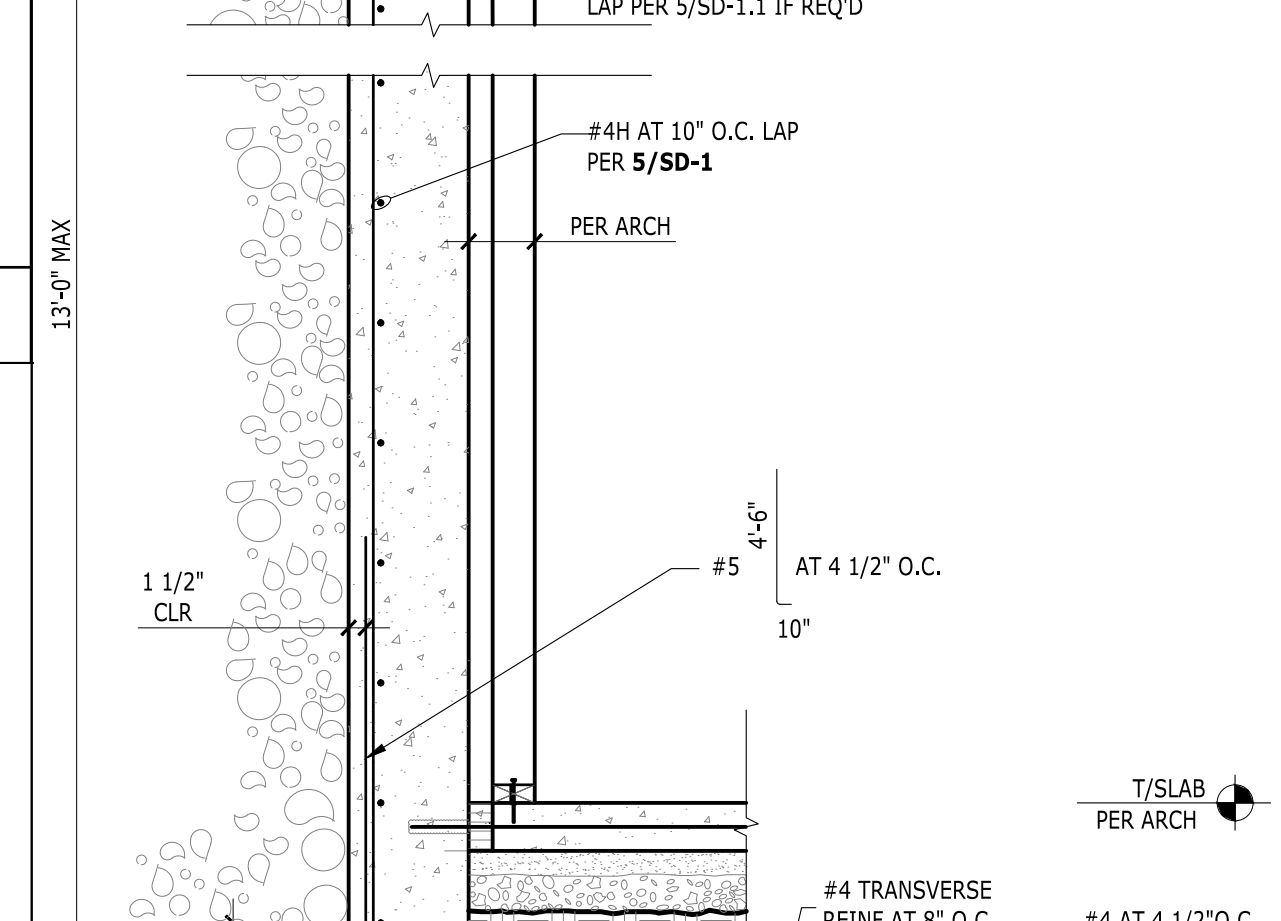
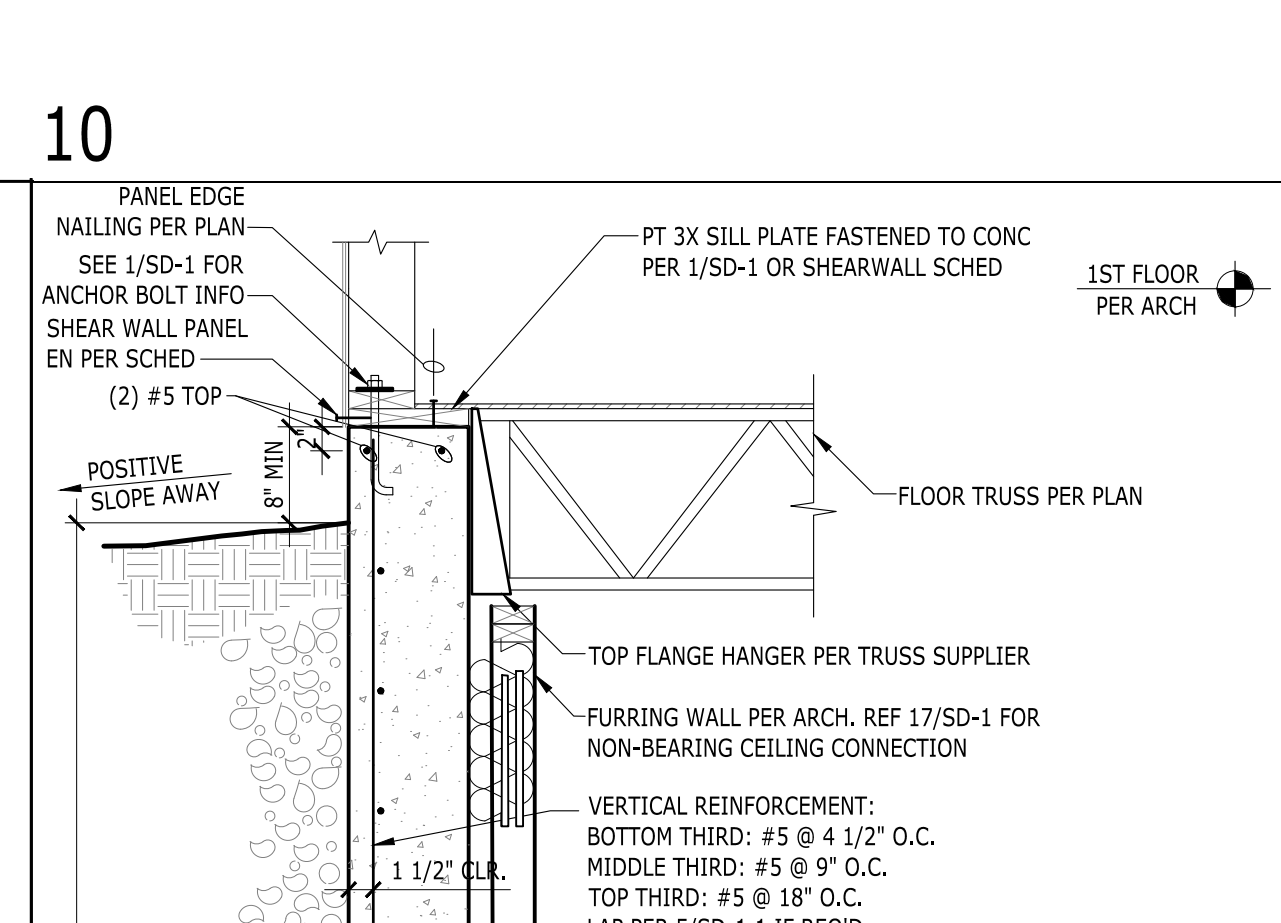
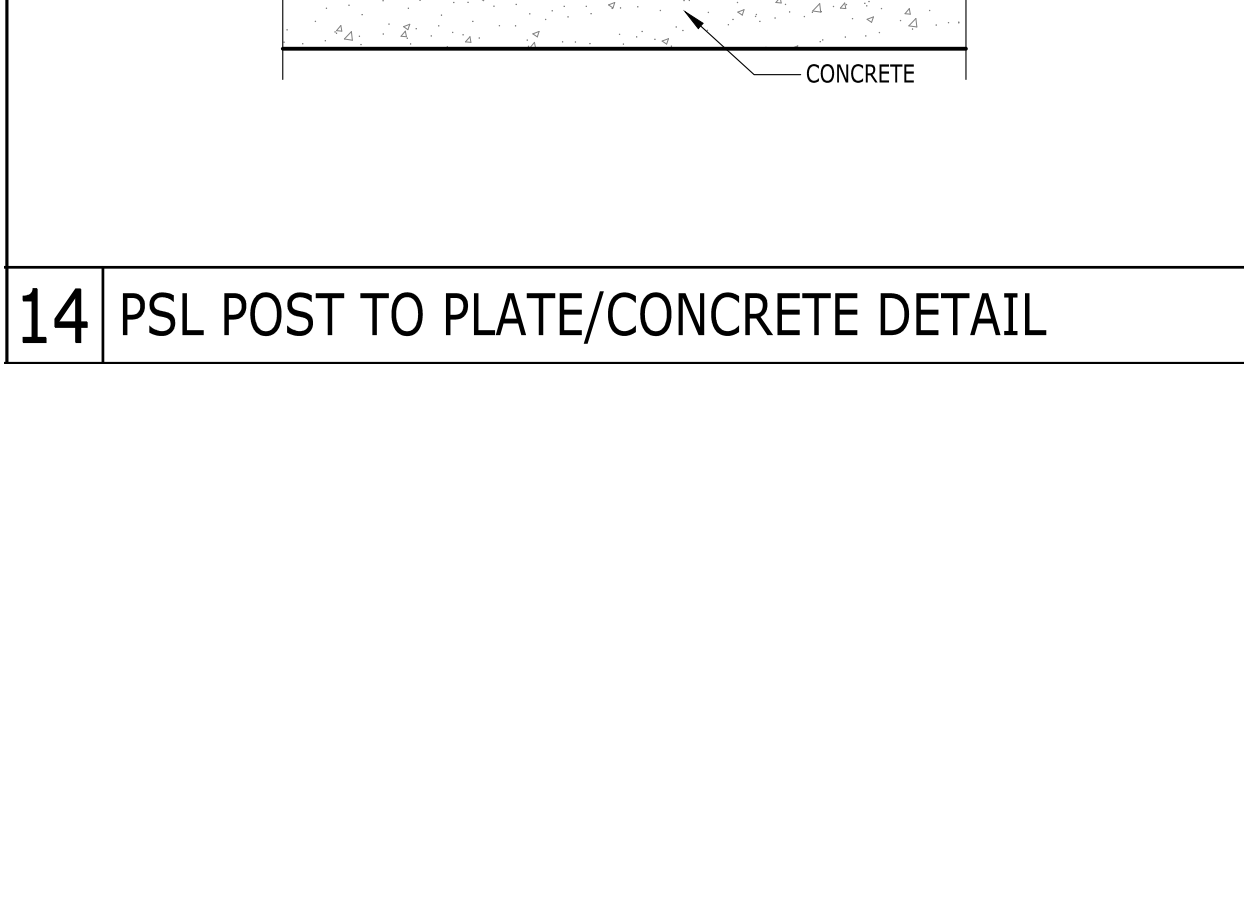
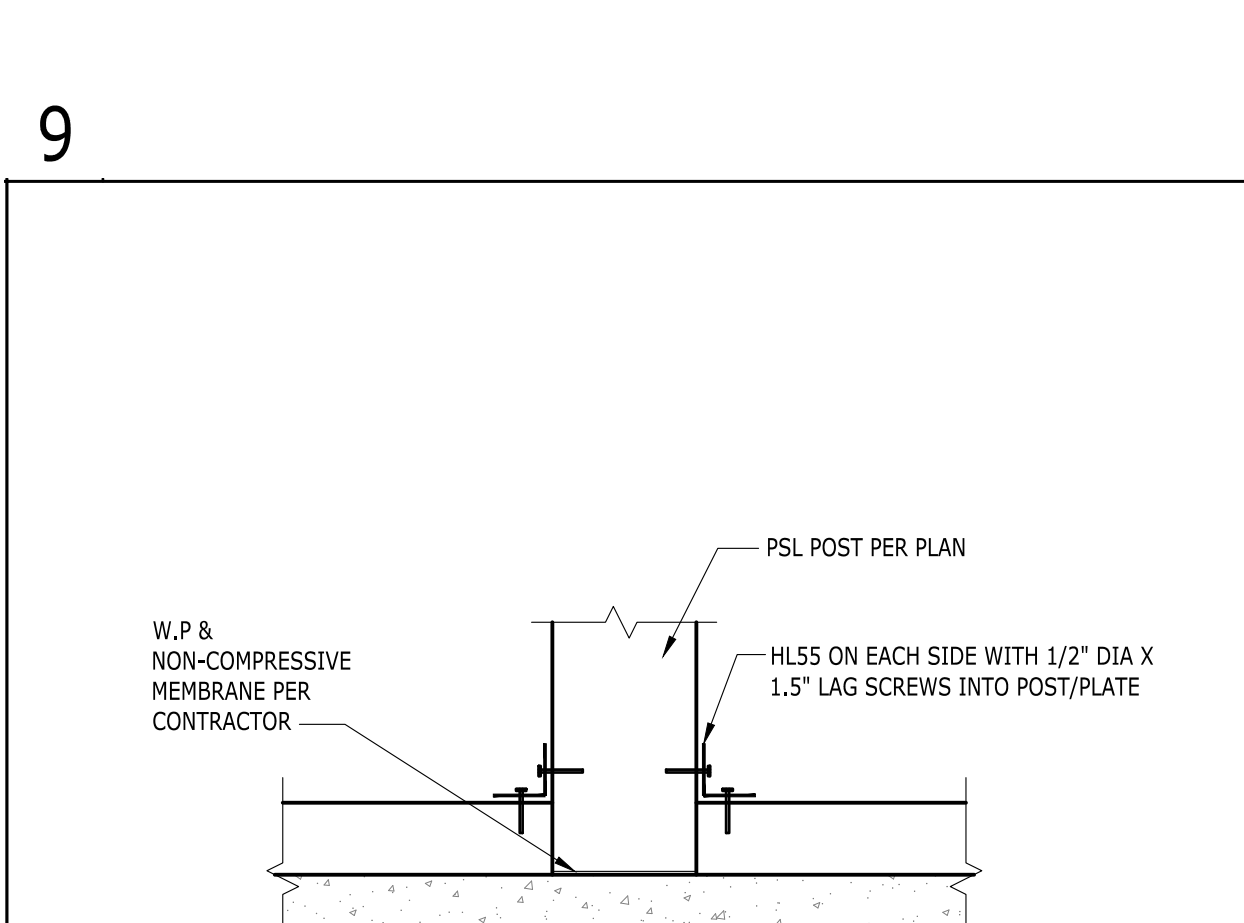
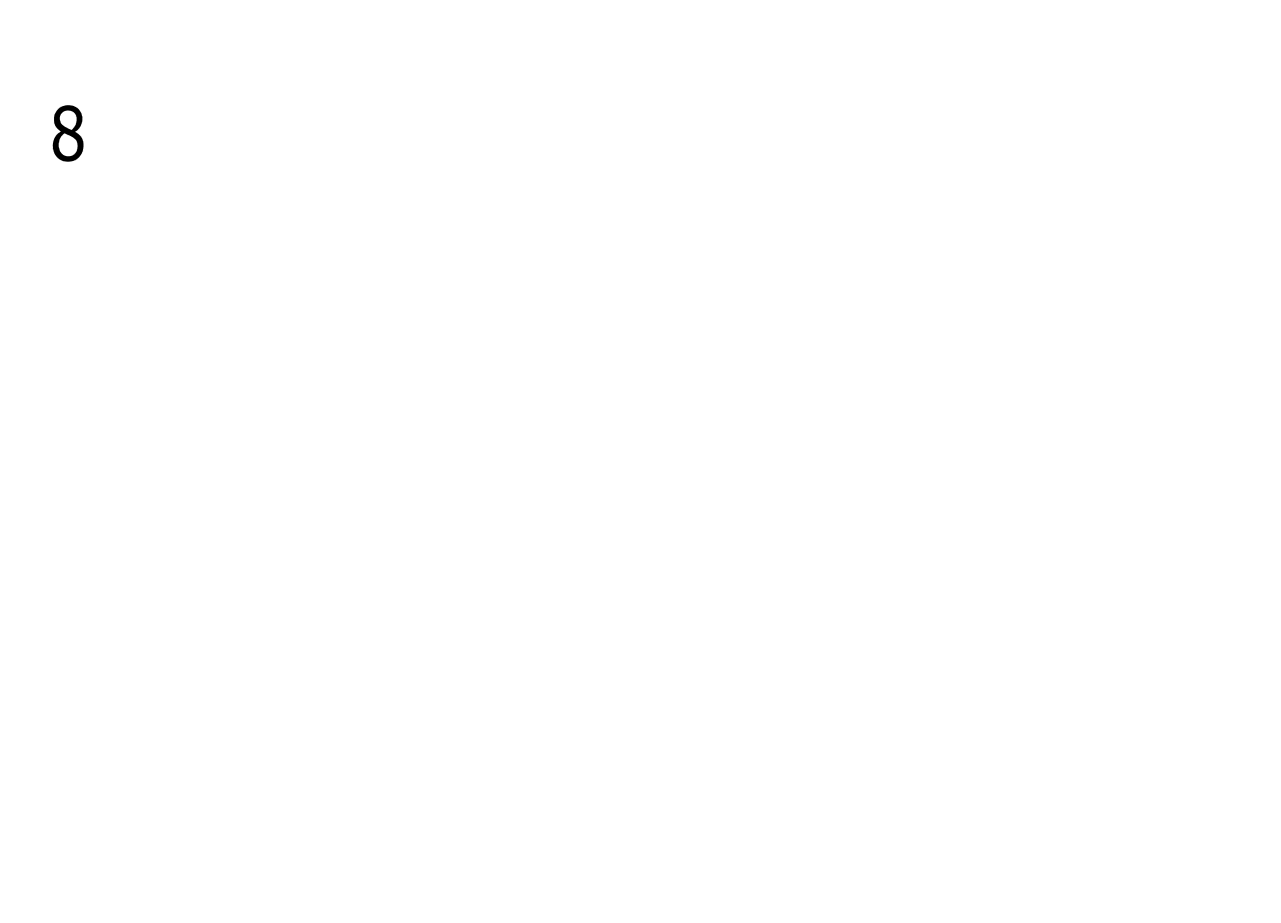
3 WSWH TOP PLATE ATTACHMENT



4 SHEAR REINFORCEMENT AT WSWH WALL



5 FOOTING AT WSWH WALL



LONGITUDE
ONE TWENTY[®]
ENGINEERING & DESIGN

REVISIONS		
DESCRIPTION	DATE	BY

PROJECT NAME
GRANBOIS RESIDENCE
8440 SE 82ND ST,
MERCER ISLAND

PROJECT NUMBER
S230110-1

DRAWN BY - MR

CHECKED BY - MRT

SHEET DATE - 03/15/2023

SCALE
24X36 SHEET: 1/4" = 1'-0"

STRUCTURAL DETAILS

SHEET **SD-3**