

GENERAL NOTES

GENERAL:

THESE DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND MAY BE REPRODUCED ONLY WITH THE WRITTEN PERMISSION OF THE ARCHITECT...

ALL CONSTRUCTION SHALL CONFORM TO THE 2018 INTERNATIONAL RESIDENTIAL CODE (IRC) AS AMENDED BY THE STATE OF WASHINGTON...

DO NOT SCALE DRAWINGS OR DETAILS - USE GIVEN DIMENSIONS. CHECK DETAILS FOR LOCATION OF ALL ITEMS NOT DIMENSIONED ON THE PLANS...

DOOR AND CASED OPENINGS WITHOUT DIMENSIONS ARE TO BE 4" FROM FACE OF ADJACENT WALL OR CENTERED BETWEEN WALLS...

VERIFY FIELD CONDITIONS PRIOR TO COMMENCEMENT OF EACH PORTION OF THE WORK.

THE CONTRACTOR SHALL COORDINATE ALL PORTIONS OF THE WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT FOR RESOLUTION OF ALL DISCREPANCIES PRIOR TO CONSTRUCTION.

CONTRACTORS RESPONSIBILITY:

CONTRACTOR TO VERIFY ALL DIMENSIONS AND STRUCTURAL MEMBER SIZES PRIOR TO CONSTRUCTION. CONTRACTOR TO INFORM ARCHITECT OF ANY DISCREPANCIES IN THE DRAWINGS OR FROM THE CODES.

CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE OWNER / ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE WORK.

ALL STRUCTURAL SYSTEMS SUCH AS WOOD TRUSSES WHICH ARE TO BE COMPOSED OF COMPONENTS TO BE FIELD ERRECTED SHALL BE SUPERVISED BY THE SUPPLIER DURING MANUFACTURING, DELIVERY, HANDLING, STORAGE AND ERECTION...

CONTRACTOR TO COORDINATE FRAMING LAYOUT WITH ELECTRICAL AND MECHANICAL PLAN.

SOILS:

UNLESS A SOILS REPORT BY A SOILS ENGINEER IS PROVIDED AND ATTACHED THIS OFFICE ASSUMES NO RESPONSIBILITY AS TO THE PHYSICAL CHARACTERISTICS OF THE SOIL. FOUNDATION DESIGN IS BASED ON AN ASSUMED AVERAGE SOIL BEARING OF 2000 PSF...

CLEARING AND GRADING (T.E.S.C. MEASURES)

ALL CLEARING AND GRADING MUST BE IN ACCORDANCE WITH LOCAL JURISDICTION CLEARING AND GRADING EROSION CONTROL STANDARDS, DEVELOPMENT STANDARDS, LAND USE CODE, INTERNATIONAL RESIDENTIAL CODE, PERMIT CONDITIONS, AND ALL OTHER APPLICABLE CODES, ORDINANCES AND STANDARDS...

A COPY OF THE APPROVED PLANS MUST BE ON-SITE WHENEVER CONSTRUCTION IS IN PROGRESS. THE APPLICANT IS RESPONSIBLE FOR OBTAINING ANY OTHER REQUIRED OR RELATED PERMITS PRIOR TO BEGINNING CONSTRUCTION.

ALL LOCATIONS OF EXISTING UTILITIES HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD, THEREFORE, BE CONSIDERED ONLY APPROXIMATE AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS AND TO DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN WHICH MAY BE EFFECTED BY THE WORK.

FINAL SITE DRAINAGE MUST DIRECT DRAINAGE AWAY FROM ALL BUILDING STRUCTURES AT A MINIMUM OF 6" WITHIN THE FIRST 10', PER IRC R4013.

CRAWL SPACE:

UNDER-FLOOR AREAS SHALL BE VENTILATED BY AN APPROVED MECHANICAL MEANS OR BY OPENINGS IN EXTERIOR FOUNDATION WALLS. SUCH OPENINGS SHALL HAVE A NET AREA OF NOT LESS THAN 1 SQ. FT. FOR EACH 100 SQ. FT. OF UNDER-FLOOR AREA...

CRAWL SPACE UNOBSTRUCTED ACCESS, MINIMUM 18" x 24". IRC R408.4.

PROVIDE 1/2" MINIMUM CRAWL SPACE UNDER WOOD JOIST AND 1" MINIMUM CRAWL SPACE UNDER WOOD GIRDERS. IRC R501.

A GROUND COVER VAPOR BARRIER OF MIN. 6 MIL (0.006") POLYETHYLENE (OR EQUIVALENT) SHALL BE INSTALLED IN ALL CRAWL SPACES, JOINTS LAPPED 12", EXTEND UP FOUNDATION WALL AND SECURE TO GULL PLATE WHEREVER PRACTICAL.

ALL WOOD IN CONTACT WITH CONCRETE, CMU OR WITHIN 6" OF SOILS SHALL BE PRESSURE TREATED WOOD IN COMPLIANCE WITH IRC R311.

GARAGES:

DOORS BETWEEN GARAGE AND DWELLING SHALL BE SOLID WOOD DOORS 1 3/8" THICK OR MORE PER IRC R302.3. THERE SHALL BE NO OPENINGS BETWEEN GARAGE AND ROOMS USED FOR SLEEPING PURPOSES.

SEPARATION FROM DWELLING TO GARAGE, SHOP OR SIMILAR AREAS SHALL BE SEPARATED FROM RESIDENCE AND ITS ATTIC AREA BY NOT LESS THAN 1/2" GYPSUM BOARD APPLIED TO THE GARAGE SIDE. GARAGES BENEATH HABITABLE ROOMS SHALL BE SEPARATED FROM ALL HABITABLE ROOMS ABOVE BY NOT LESS THAN 5/8" TYPE X GYPSUM BOARD OR EQUIVALENT...

HEATING AND/OR COOLING EQUIPMENT LOCATED IN GARAGE SHALL BE INSTALLED WITH PILOTS AND BURNERS OR HEATING ELEMENTS AND SWITCHES AT LEAST 18" ABOVE THE FLOOR LEVEL. PER IRC G1408.2.

FIREPLACES

FACTORY-BUILT FIREPLACES AND CHIMNEYS SHALL BE LISTED AND INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS, IRC R308.4 AND TESTED IN ACCORDANCE WITH UL 17.

MASONRY FIREPLACES, BARBEQUES, SMOKE CHAMBERS AND FIREPLACE CHIMNEYS SHALL BE CONSTRUCTED OF MASONRY OR REINFORCED CONCRETE. FOUNDATIONS SHALL BE MIN. 12" THICK AND EXTEND MIN. 6" BEYOND MASONRY. FIREBOX WALLS MIN. 12" THICK EXCEPT MIN. 8" THICK WHERE A FIREBRICK LINING IS USED...

CEILING HEIGHTS

HABITABLE SPACE SHALL HAVE A CEILING HEIGHT OF NOT LESS THAN 7'-0". NOT MORE THAN 80% OF REQUIRED FLOOR AREA OF A SPACE IS PERMITTED TO HAVE A SLOPED CEILING LESS THAN 7'-0" IN HEIGHT WITH NO PORTION LOWER THAN 5'-0". BATHROOM SHALL HAVE A MIN CEILING HEIGHT OF 6'-8" OVER THE FIXTURE AND 10" FRONT CLEARANCE AREA. IRC R305.

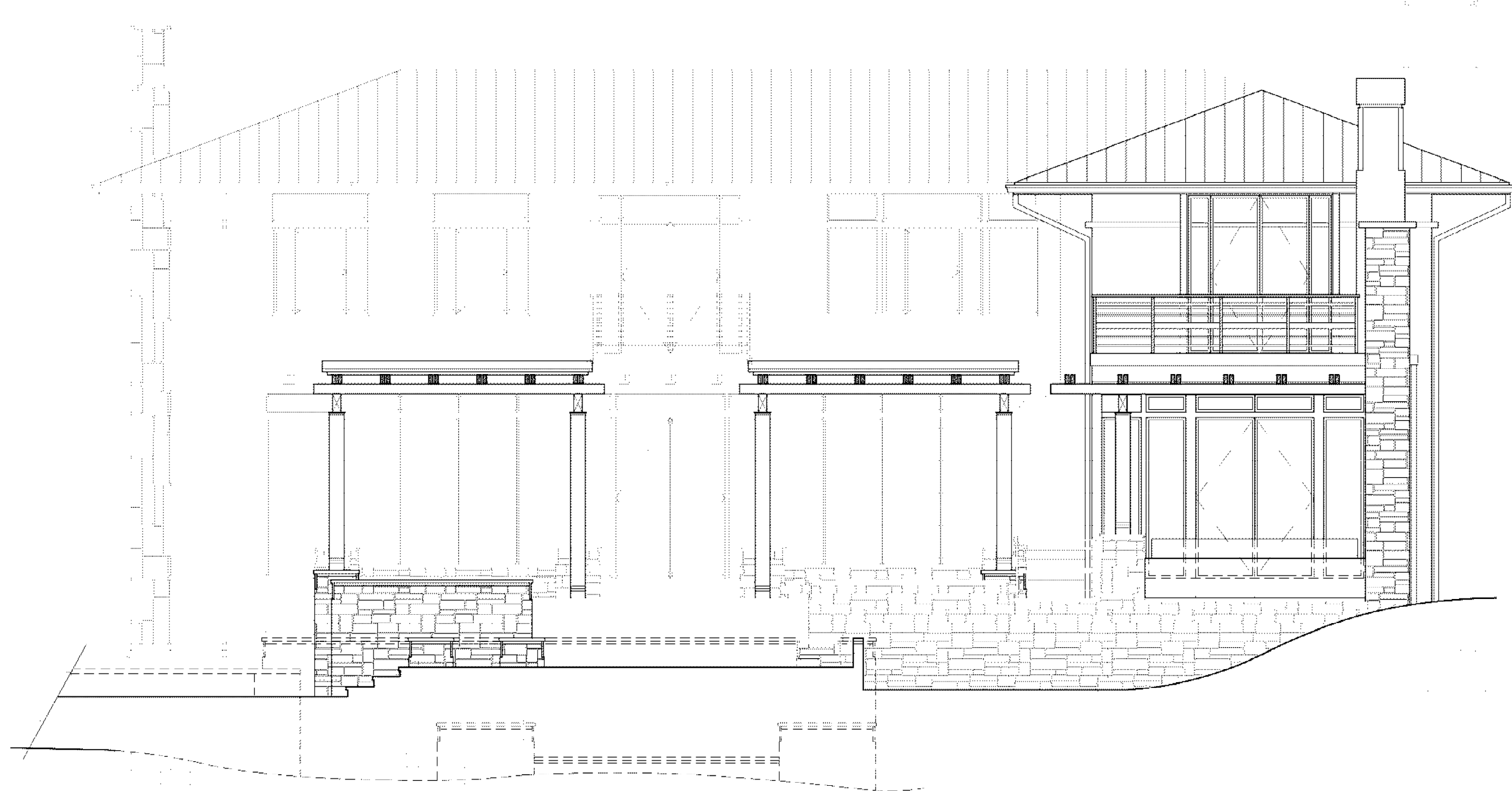
ROOFING:

APPLY ROOFING IN ACCORDANCE WITH IRC R305.

BALCONIES, LANDINGS, EXTERIOR STAIRWAYS, OCCUPIED ROOFS AND SIMILAR SURFACES EXPOSED TO THE WEATHER AND SEALED UNDERNEATH SHALL BE WATERPROOFED AND SLOPED A MINIMUM OF 1/4" PER 1" (2% SLOPE) FOR DRAINAGE.

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ATTIC:

PROVIDE ATTIC VENTILATION AS INDICATED ON ROOF FRAMING PLANS. THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN 1/80 OF THE AREA OF THE SPACE VENTILATED...

ATTIC ACCESS MINIMUM 22" x 30" WITH MINIMUM 30" HEADROOM, UNOBSTRUCTED, READILY ACCESSIBLE OPENING. IRC R201.

GLAZING:

TO BE IN COMPLIANCE WITH IRC R308 AND WASHINGTON STATE SAFETY GLASS LAW.

GLAZING IN HAZARDOUS LOCATIONS SUCH AS GLASS ON DOORS, GLAZING WITHIN 24" ON EITHER SIDE OF A DOOR OPENING, AREAS WITHIN 60" VERTICAL AND 36" HORIZONTAL OF THE BOTTOM LANDING OF A STAIRWAY, STORE DOORS, RAILINGS, SHOWER DOORS, SLIDING GLASS DOORS, AND TUB ENCLOSURES SHALL BE SAFETY GLAZING MATERIAL. IRC R308.4

ALL EXTERIOR WALL GLAZING SHALL COMPLY WITH THE 2018 EDITION OF THE WASHINGTON STATE ENERGY CODE.

EGRESS:

EGRESS IN EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE OPERABLE EMERGENCY EXIT WITH A MINIMUM NET CLEAR OPENING OF 5.7 SQ. FT. THE MINIMUM NET CLEAR OPENING HEIGHT DIMENSION SHALL BE 24" MINIMUM NET CLEAR OPENING WIDTH DIMENSION OF 20" AND A FINISHED GULL HEIGHT NOT MORE THAN 44" ABOVE THE FLOOR. IRC R302.1.

FIRE & CARBON MONOXIDE PROTECTION:

SMOKE & CARBON MONOXIDE DETECTOR POWER SOURCES TO BE INSTALLED IN ACCORDANCE WITH NFPA 72, IRC R314 & IRC R315. ALL ALARM DEVICES SHALL BE INTERCONNECTED PER IRC R314.

FIRELOOKING PER IRC R302.3, R302.12, R302.11 & R6-02.8. DRAFTSTOPPING PER IRC R302.12 & R302.12.

VENTILATION & LIGHTING:

INHABITABLE ROOMS NOT PROVIDED WITH AN OPENABLE EXTERIOR OPENING OF AT LEAST 4% OF THE FLOOR AREA A MECHANICAL VENTILATION SYSTEM MUST BE PROVIDED THAT PROVIDES MIN. 35 AIR CHANGES PER HOUR. IRC R303.1.

DRYER & BATH FANS TO BE 50 CFM AND RANGE/OVEN FANS TO BE 100 CFM MIN. VENT TO THE OUTSIDE. IRC309 AND 2006 WA STATE VENTILATION AND INDOOR AIR QUALITY CODE.

NATURAL LIGHTING TO BE NOT LESS THAN 8% OF THE FLOOR AREA OR ALL HABITABLE SPACES. IRC R305.

STAIRS:

MINIMUM HEADROOM OF 6'-8" MEASURED VERTICALLY FROM A SLOPED PLANE ADJOINING THE TREAD NOSING OR FROM THE FLOOR SURFACE OR PLATFORM. IRC R311.2 MINIMUM WIDTH 36". IRC R311.

MINIMUM TREAD 10" MAXIMUM RISSER 1 3/4" HANDRAIL MINIMUM 34" AND MAXIMUM 38" ABOVE STAIR NOSING HANDRAIL TO BE 1 1/4" TO 2" CROSS SECTION AND 1 1/2" AWAY FROM WALL. IRC R311.5 & 311.6. INSTALL FIRE BLOCKING AT MID STRINGER SPAN AND AT WALL ALONG STRINGER. COVER WALLS AND SOFFITS OF USABLE SPACE UNDER STAIR WITH 1/2" GYPSUM BOARD. IRC R302.11

GUARDRAILS: ANY WALKING SURFACE 30" OR MORE ABOVE GRADE OR ADJACENT SURFACE SHALL HAVE MIN 36" HIGH GUARDRAIL. IRC R301.

BATHROOMS:

ALL TUB AND SHOWER STALLS SHALL HAVE FIRELOOKING BETWEEN STALLS.

ALL GLAZING USED FOR DOORS OR ENCLOSURES IN BATHROOMS SHALL BE SAFETY GLAZING. GLAZING IN ANY PORTION OF A BUILDING WALL ENCLOSING A SHOWER OR BATHUB WHERE THE BOTTOM EXPOSED EDGE IS LESS THAN 60" INCHES ABOVE THE STANDING SURFACE AND DRAIN INLET SHALL BE SAFETY GLAZING. IRC R308.4

BATH TUB & SHOWER STALL NON-ABSORBENT WAINSCOTS SHALL BE A MINIMUM OF 12 INCHES ABOVE THE FLOOR. IRC R307.2

WATERCLOSETS SHALL HAVE MIN. 15" TO SIDE WALLS FROM CENTER OF FIXTURE, AND MIN. 21" FRONT CLEARANCE. IRC R307.1

APPLIANCES IN A FIXED POSITION SHALL BE SECURELY FASTENED IN PLACE TO STRUCTURAL MEMBERS WITH STRAP ANCHORS OR SIMILAR ANCHORING METHOD. IRC G240.4.4

ENERGY:

METHOD OF COMPLIANCE - PRESCRIPTIVE METHOD FOR GROUP R OCCUPANCY, CLIMATE ZONE PER TABLE R301.1, TABLE R402.1 UNLIMITED GLAZING.

ENERGY CREDITS- 15 CREDITS REQUIRED, 15 CREDITS SELECTED- SEE PRESCRIPTIVE WORKSHEET.

02 CREDITS-OPTION 13 EFFICIENT BUILDING ENVELOPE, PRESCRIPTIVE COMPLIANCE IS BASED ON TABLE R402.1 WITH THE FOLLOWING MODIFICATIONS: VERTICAL PENETRATION U=0.28 FLOOR R=38

03 CREDITS-OPTION 21 AIR LEAKAGE CONTROL & EFFICIENT VENTILATION COMPLIANCE BASED ON R402.4.2. REDUCE THE TESTED AIR LEAKAGE TO 3.0 AIR CHANGES PER HOUR MAXIMUM @ 50 PASCALS

05 CREDITS-OPTION 41 HIGH EFFICIENCY HVAC DISTRIBUTION SYSTEM OPTIONS

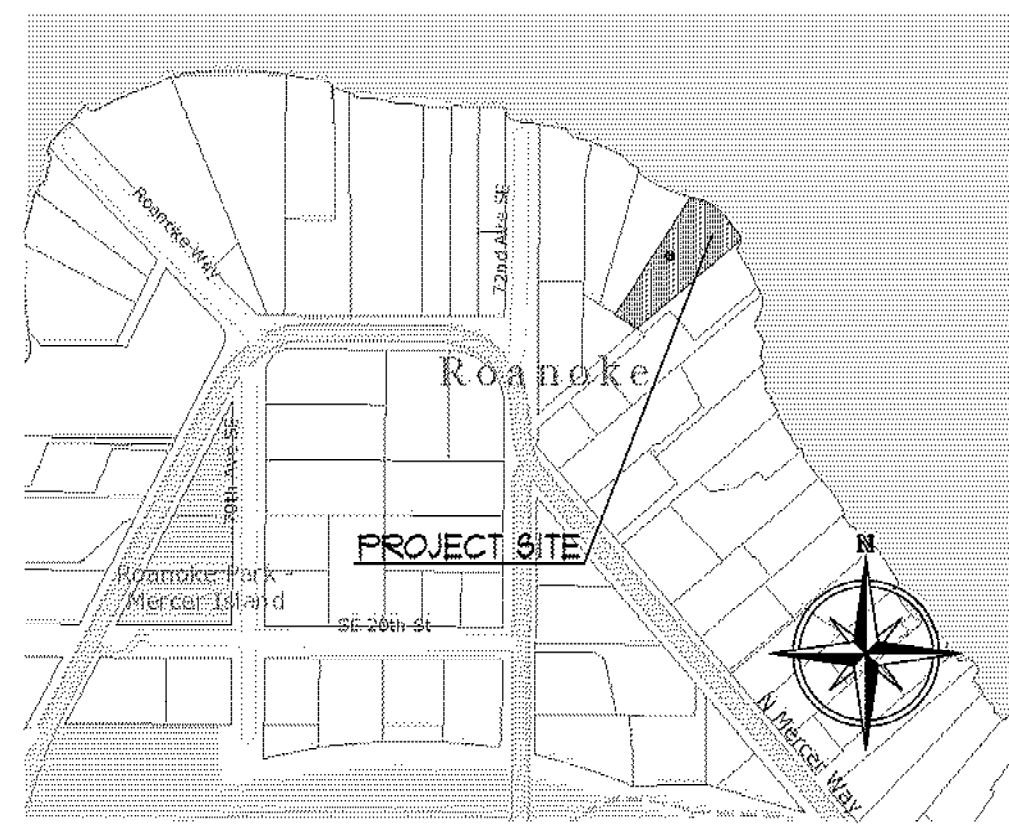
ALL SUPPLY AND RETURN DUCTS LOCATED IN AN UNCONDITIONED ATTIC SHALL BE DEEPLY BURIED IN CEILING INSULATION IN ACCORDANCE WITH SECTION R403.3.1.

FOR MECHANICAL EQUIPMENT LOCATED OUTSIDE THE CONDITIONED SPACE A MINIMUM OF 10 LINEAR FEET OF RETURN DUCT AND 5 LINEAR FEET OF SUPPLY DUCT CONNECTIONS TO THE EQUIPMENT MAY BE OUTSIDE OF THE DEEPLY BURIED INSULATION. ALL METALLIC DUCTS LOCATED OUTSIDE THE CONDITIONED SPACE MUST HAVE BOTH TRANSVERSE AND LONGITUDINAL JOINTS SEALED WITH MASTIC. IF FLEX DUCTS ARE USED THEY CANNOT CONTAIN SPLICES.

DUCT LEAKAGE SHALL BE LIMITED TO 3 CFM PER 100 SF OF CONDITIONED FLOOR AREA.

AIR HANDLERS SHALL BE LOCATED WITHIN THE CONDITIONED SPACE.

VICINITY PLAN



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FLOORS: INSULATE PER TABLE R402.11.

SLAB ON GRADE: INSULATE PER TABLE R402.11. PROVIDE EXTRUDED RIGID CLOSED CELL INSULATION. INSULATION INSTALLED INSIDE THE FOUNDATION WALL, SHALL EXTEND DOWNWARD FROM THE TOP OF THE SLAB 24" MIN OR DOWNWARD AND THEN HORIZONTALLY BENEATH THE SLAB FOR A CORNERED 24" MIN. INSULATION INSTALLED OUTSIDE THE FOUNDATION SHALL EXTEND DOWNWARD 24" MIN OR TO THE PROXIMATE USEC 402.2.1.

VAPOR BARRIERS: VAPOR RETARDERS SHALL BE INSTALLED ON THE WARM SIDE (IN WINTER) OF INSULATION PER TABLE R402.4.11.

FLOORS SEPARATING CONDITIONED SPACE FROM UNCONDITIONED SPACE SHALL HAVE MIN. 4 MIL POLYETHYLENE OR KRAFT FACED MATERIAL. ROOF/CEILING ASSEMBLIES WHERE THE VENTILATION SPACE ABOVE THE INSULATION IS LESS THAN AN AVERAGE OF 12 INCHES SHALL BE PROVIDED WITH A VAPOR RETARDER. WALLS SEPARATING CONDITIONED SPACE FROM UNCONDITIONED SPACE SHALL HAVE A VAPOR RETARDER INSTALLED. FACED BATT INSULATION SHALL BE FACE STAPLED. A GROUND COVER OF MIN. 6 MIL BLACK POLYETHYLENE SHALL BE LAID OVER THE GROUND WITHIN CRAWL SPACES W/ JOINTS LAPPED MIN. 12".

GLAZING AND DOORS: GLAZING AND DOOR U-FACTORS SHALL BE DETERMINED IN ACCORDANCE WITH USEC SECTIONS R402.11 AND R303.1(2), RESPECTIVELY.

PROJECT ADDRESS

1640 72ND AVE SE MERCER ISLAND, WA 98040

ZONING CLASSIFICATION

R-7

IMPERVIOUS SURFACE COVERAGE

PLEASE REFER TO ALL-SITE PLAN

SQ. FT. CALCULATION

Table with 3 columns: EXISTING FINISHED AREAS, EXIST. GAR. & STORAGE AREAS, EXIST. DECK/PATIO. Rows include Basement, Main Floor, Upper Floor, and Total.

Table with 2 columns: DEMO. DECK/PATIO, NEW DECK/PATIO. Rows include Main Floor and Upper Floor.

Table with 2 columns: NEW FINISHED AREAS, NEW DECK/PATIO. Rows include Upper Floor.

Table with 3 columns: PROP. TOTAL FINISHED AREAS, PROP. TOTAL GAR. & STORAGE AREAS, PROP. TOTAL DECK/PATIO. Rows include Basement, Main Floor, Upper Floor, and Total.

GROSS FLOOR AREA CALCULATIONS (GFA)

Table with 2 columns: MAXIMUM ALLOWED, TOTAL FLOOR AREA, BASEMENT EXCLUSION. Values include 8896 SF (40%), 6641 SF, and 631 SF.

TOTAL GFA 6,010 SF (27%)

LEGAL DESCRIPTION

LEGAL DESCRIPTION: MC GILVERAS ISLAND ADD BEG SE COR OF 2 TH N 58 DEG 32 MIN 20 SEC W 4139 FT TH N 32 DEG 12 MIN 14 SEC E TO 64 LN OF LAKE WASH TH SELY ALG 64 LN TO PT N 48 DEG 48 MIN 00 SEC E OF BEG TH S 48 DEG 48 MIN 00 SEC W TO BEG 4 64 LGS ADJ.

PARCEL 931510-0204

BUILDING CLASSIFICATION

USE GROUP (IBC CHAPTER 3): R-3 (SINGLE FAM. RESIDENTIAL) CONSTRUCTION TYPE (IBC 602.5): TYPE V ALLOWABLE AREA (IBC TABLE 503): UNLIMITED ALLOWABLE HEIGHT (IBC TABLE 503): 3 STORIES W/ BASEMENT, OR 4 STORIES IF SPRINKLED

ENERGY COMPLIANCE

WASHINGTON STATE ENERGY CODE: 2018 EDITION, PRESCRIPTIVE METHOD FOR SINGLE-FAMILY RESIDENTIAL, CLIMATE ZONE 5 & MARINE 4. DOOR U-FACTORS SHALL CONFORM TO TABLE R303.1(2).

Table with 6 columns: GLAZING U-FACTOR, CEILING, VAULTED WALL, WALL-INT WALL-EXT FLOOR, SLAB ON GRADE. Rows include 028, 030, R-49, R-38, R-21, R-21 TB, R-10/15/21, R-10/21, R-38, R-10/21.

INDEX OF DRAWINGS

- ARCHITECTURAL: A01 COVER SHEET, A11 ARCHITECTURAL SITE PLAN, A12 MAIN FLOOR PLAN, A22 MAIN FLOOR DEMO PLAN, A23 UPPER FLOOR PLAN, A23D UPPER FLOOR DEMO PLAN, A24 ROOF PLAN, A31 EXTERIOR ELEVATIONS, A32 EXTERIOR ELEVATIONS, A41 SECTIONS, A61 DOOR & WINDOW SCHEDULES

ABBREVIATIONS

- UNO UNLESS NOTED OTHERWISE, NIC NOT IN CONTRACT, UC WATER CLOSET, EXBT EXISTING, R1 ROOM, NTS NOT TO SCALE, UD WOOD, FFH-B GOLD WATER PROOF-PROOF HOSE BIBBS, HW-FFH-B HOT WATER PROOF-PROOF HOSE BIBBS, FBOC FURNISHED BY OWNER - INSTALLED BY CONTRACTOR

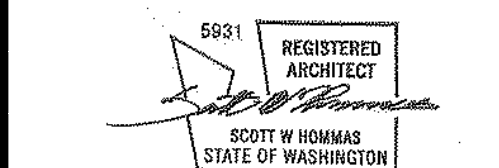
- STRUCTURAL: S11 STRUCTURAL TITLE SHEET, S12 STRUCTURAL GENERAL NOTES, S13 STRUCTURAL GENERAL NOTES, S14 STRUCTURAL GENERAL NOTES, S21 FOUNDATION PLAN, S22 MAIN LEVEL FRAMING PLAN, S23 UPPER LEVEL FRAMING PLAN, S24 ROOF FRAMING PLAN, S31 STRUCTURAL CONCRETE DETAILS, S51 STRUCTURAL STEEL DETAILS, S61 STRUCTURAL WOOD DETAILS, S62 STRUCTURAL WOOD DETAILS, S63 STRUCTURAL WOOD DETAILS

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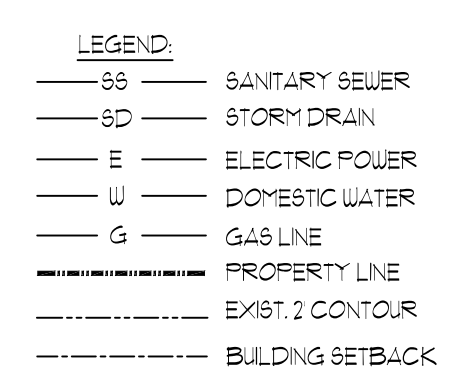
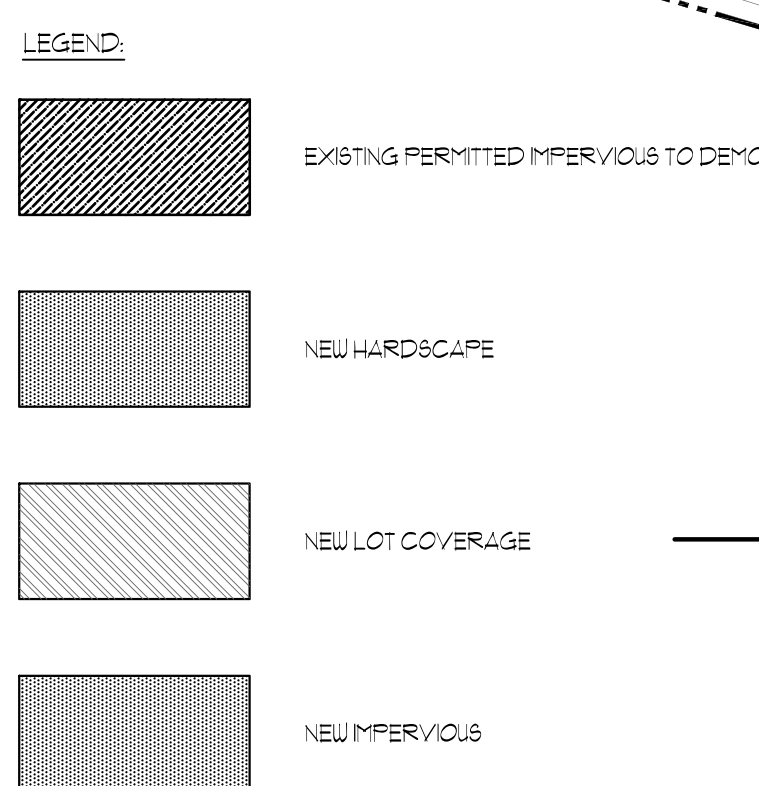
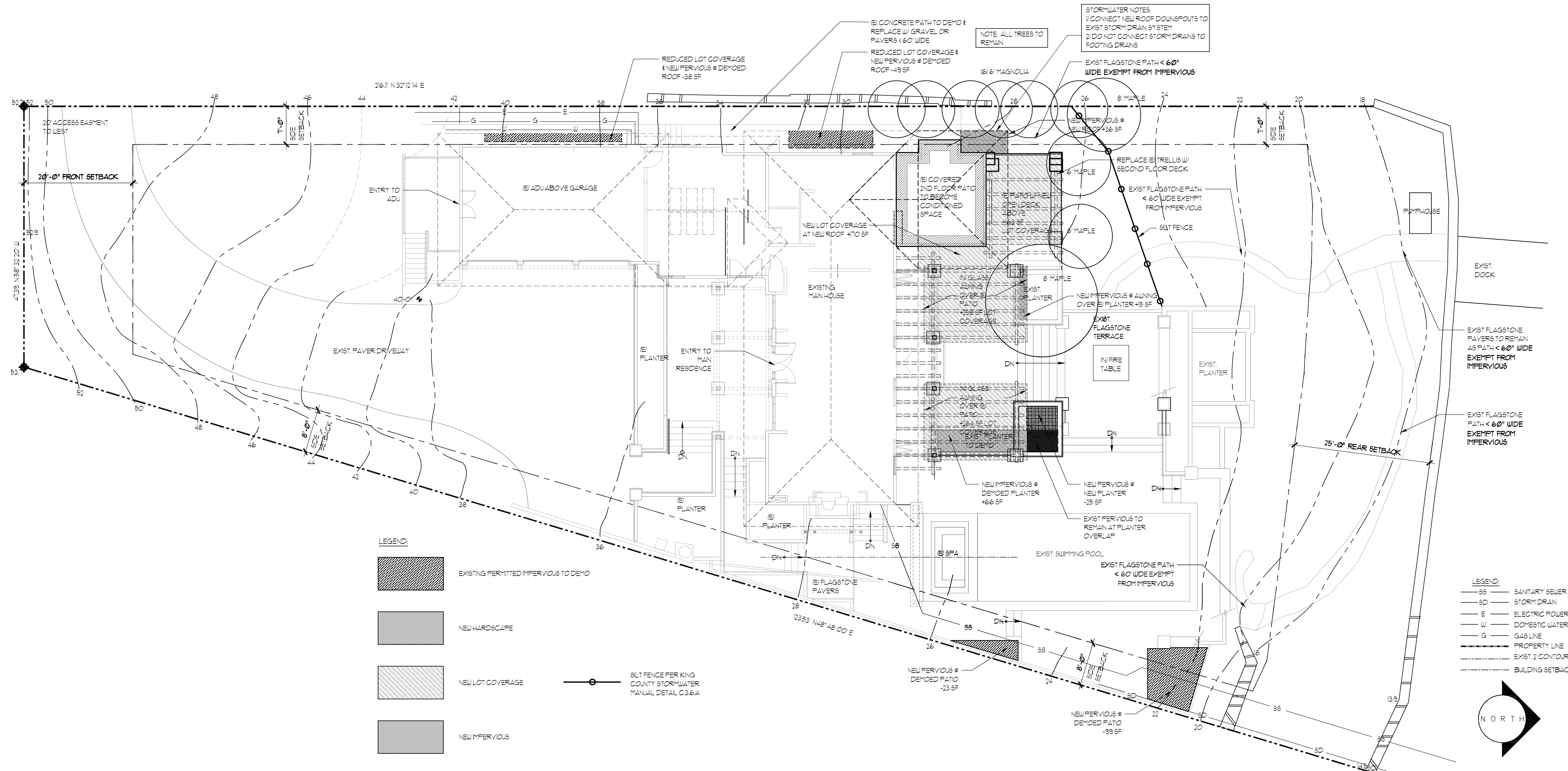
Job No: 2110 Project Manager: TB Issue Date: 11/01/2021

Table with 3 columns: NO., DATE, REVISION. Contains multiple rows for drawing revisions.



COVER SHEET

A0.1



TESC NOTES:

- APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/ESC SUPERVISOR UNTIL ALL CONSTRUCTION IS APPROVED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED BY SURVEY TAPE OR FENCING, IF REQUIRED, PRIOR TO CONSTRUCTION (SEEM APPENDIX D). DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE CLEARING LIMITS SHALL BE MAINTAINED BY THE APPLICANT/ESC SUPERVISOR FOR THE DURATION OF CONSTRUCTION.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES, SUCH AS CONSTRUCTED WHEEL WASH SYSTEMS OR WASH PADS, MAY BE REQUIRED TO ENSURE THAT ALL PAVED AREAS ARE KEPT CLEAN AND TRACK OUT TO ROAD RIGHT OF WAY DOES NOT OCCUR FOR THE DURATION OF THE PROJECT.
- THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED PRIOR TO OR IN CONJUNCTION WITH ALL CLEARING AND GRADING SO AS TO ENSURE THAT THE TRANSPORT OF SEDIMENT TO SURFACE WATERS, DRAINAGE SYSTEMS, AND ADJACENT PROPERTIES IS MINIMIZED.
- THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND MODIFIED TO ACCOUNT FOR CHANGING SITE CONDITIONS (E.G. ADDITIONAL COVER MEASURES, ADDITIONAL SUMP PUMPS, RELOCATION OF DITCHES AND SILT FENCES, PERIMETER PROTECTION ETC.) AS DIRECTED BY KING COUNTY.
- THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/ESC SUPERVISOR AND MAINTAINED TO ENSURE CONTINUED PROPER FUNCTIONING. WRITTEN RECORDS SHALL BE KEPT OF WEEKLY REVIEWS OF THE ESC FACILITIES.
- ANY AREAS OF EXPOSED SOILS, INCLUDING ROADWAY EMBANKMENTS, THAT WILL NOT BE DISTURBED FOR TWO CONSECUTIVE DAYS DURING THE WET SEASON OR SEVEN DAYS DURING THE DRY SEASON SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G. SEEDING, MULCHING, PLASTIC COVERING, ETC.).
- ANY AREA NEEDING ESC MEASURES THAT DO NOT REQUIRE IMMEDIATE ATTENTION SHALL BE ADDRESSED WITHIN SEVEN (7) DAYS.
- THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH DURING THE DRY SEASON, BI-MONTHLY DURING THE WET SEASON, OR WITHIN TWENTY FOUR (24) HOURS FOLLOWING A STORM EVENT.
- AT NO TIME SHALL MORE THAN ONE (1) FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LOADED WATER INTO THE DOWNSTEAM SYSTEM.
- ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION SYSTEM THE TEMPORARY FACILITY MUST BE ROUGH GRADED SO THAT THE BOTTOM AND SIDES ARE AT LEAST THREE FEET ABOVE THE FINAL GRADE OF THE PERMANENT FACILITY.
- COVER MEASURES WILL BE APPLIED IN CONFORMANCE WITH APPENDIX D OF THE SURFACE WATER DESIGN MANUAL.
- PRIOR TO THE BEGINNING OF THE WET SEASON (OCT. 1), ALL DISTURBED AREAS SHALL BE REVIEWED TO IDENTIFY WHICH ONES CAN BE SEEDED IN PREPARATION FOR THE WINTER RAINS. DISTURBED AREAS SHALL BE SEEDED WITHIN ONE WEEK OF THE BEGINNING OF THE WET SEASON. A SKETCH MAP OF THOSE AREAS TO BE SEEDED AND THOSE AREAS TO REMAIN UNCOVERED SHALL BE SUBMITTED TO THE DDES INSPECTOR.

LOT AREA:	
22,240 SF	
LOT SLOPE:	
HIGH POINT: 56.56'	
LOW POINT: 40.02'	
DIFFERENCE: 263.23'	
DISTANCE BETWEEN POINTS: 15.2%	
LOT COVERAGE:	
ALLOWED (85%): 17,844 SF	
EXISTING: HOUSE ROOF DRIVEWAY 4,029 SF 2,743 SF	
NEW PROPOSED: (N) ROOF @ MASTER 170 SF (N) COVERED PATIO @ FAMILY 163 SF (N) AWNINGS 522 SF	
DEMO PROPOSED: (Q) ROOF NOTCHES: -87 SF	
TOTAL PROPOSED (34.4%): 7,640 SF	
GROSS FLOOR AREA:	
ALLOWED (LESSER OF 40% OR 10,000 SF): 8,836 SF	
EXISTING: 5,454 SF	
NEW: MASTER BEDROOM EXPANSION 302 SF PROPOSED 5,756 SF EXCLUDED BASEMENT 749 SF	
SQUARE FOOTAGE:	
REF. 401	
PROPOSED BUILDING HEIGHT:	
A.B.E. NO CHANGE: 34.37'	
MAX HEIGHT: 64.37'	
PROPOSED HEIGHT (NO CHANGE): 51.74'	

1 SITE/TESC/STORM WATER PLAN PROPOSED

SCALE: 1" = 10'-0"

HARD SURFACES:	
ALLOWED (85%): 10,222 SF	
EXISTING HARD SURFACES (17%): 3,881 SF	
LEGAL NON-CONFORMING): DEMO PROPOSED: (Q) PATIO AREAS -72 SF REMOVE EXIST PLANTER PROPOSED NEW AWNING OVER (E) PLANTER 415 SF (N) PLANTER -25 SF	
PROPOSED TOTAL: 3,885 SF	
NET CHANGE IN HARD SURFACES: -66 SF	
2) REMOVAL OF HARD SURFACES:	
PROPOSED NEW LOT COVERAGE + HARD SURFACES OUTSIDE EXIST FOOTPRINT: REMOVE EXIST PLANTER 466 SF AWNING OVER (E) PLANTER PORTION OF MASTER ROOF 436 SF OUTSIDE EXIST HARD SURFACES 417 SF	
TOTAL: -1,319 SF	
REQUIRED REMOVAL OF EXIST SURFACES @ 2) RATIO: (Q) ROOF NOTCHES: -87 SF (Q) PATIO AREAS: -72 SF (Q) RATIO AREAS: -25 SF	
NEW PLANTER: -25 SF	
TOTAL: -234 SF	
PROPOSED NET CHANGE IN IMPERVIOUS: -411 SF	
LANDSCAPING AREA:	
REQUIRED (85%): 14,486 SF	
ALLOWED HARDSCAPING IMPROVEMENTS (8%): 2,002 SF	
EXISTING SOFTSCAPE (82%): 1,486 SF	
LEGAL NON-CONFORMING): PROPOSED SOFTSCAPE (81%): 1,603 SF	
(11 SF NET INCREASE)	

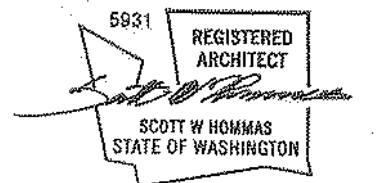
LEGAL DESCRIPTION:
 THAT PORTION OF LOTS 2 AND 3, BLOCK 1 (MCGILVERAS ISLAND ADDITION IN KING COUNTY, WASHINGTON), DESCRIBED AS FOLLOWS:
 BEGINNING AT THE SOUTH-EAST CORNER OF SAID LOT 2, THENCE NORTH 88°32'00" WEST, 41.139 FEET; THENCE NORTH 32°12'14" EAST TO THE SHORELINE OF LAKE WASHINGTON; THENCE SOUTH-EASTERLY ALONG SAID SHORELINE TO A POINT WHICH BEARS NORTH 48°48'00" EAST FROM THE POINT OF BEGINNING; THENCE SOUTH 48°48'00" WEST TO POINT OF BEGINNING TOGETHER WITH SHORELANDS OF THE SECOND CLASS ADJACENT TO OR ABUTTING THEREON AND LYING BETWEEN THE NORTH-WESTERLY AND THE SOUTH-EASTERLY BOUNDARIES OF THE ABOVE DESCRIBED TRACT EXTENDED NORTH-EASTERLY; TOGETHER WITH AN EASEMENT FOR ROAD PURPOSES OVER A STRIP 20 FEET IN WIDTH DESCRIBED AS FOLLOWS:
 BEGINNING AT THE SOUTH-EAST CORNER OF SAID LOT 2, THENCE NORTH 88°32'00" WEST, 41.139 FEET TO THE TRUE POINT OF THE BEGINNING OF THE EASEMENT; THENCE CONTINUING NORTH 88°32'00" WEST, 72.12 FEET; THENCE WEST 76°18' FEET TO THE EAST MARGIN OF EXISTING 72ND AVENUE SE; THENCE NORTH 00°03'49" EAST ALONG SAID MARGIN OF 72ND AVENUE SE, THENCE EAST 81°19' FEET; THENCE SOUTH 88°32'00" EAST, 81.01 FEET TO THE NORTH-WESTERLY LINE OF ABOVE DESCRIBED TRACT; THENCE SOUTH 32°12'14" WEST, 20.00 FEET TO THE TRUE POINT OF BEGINNING.

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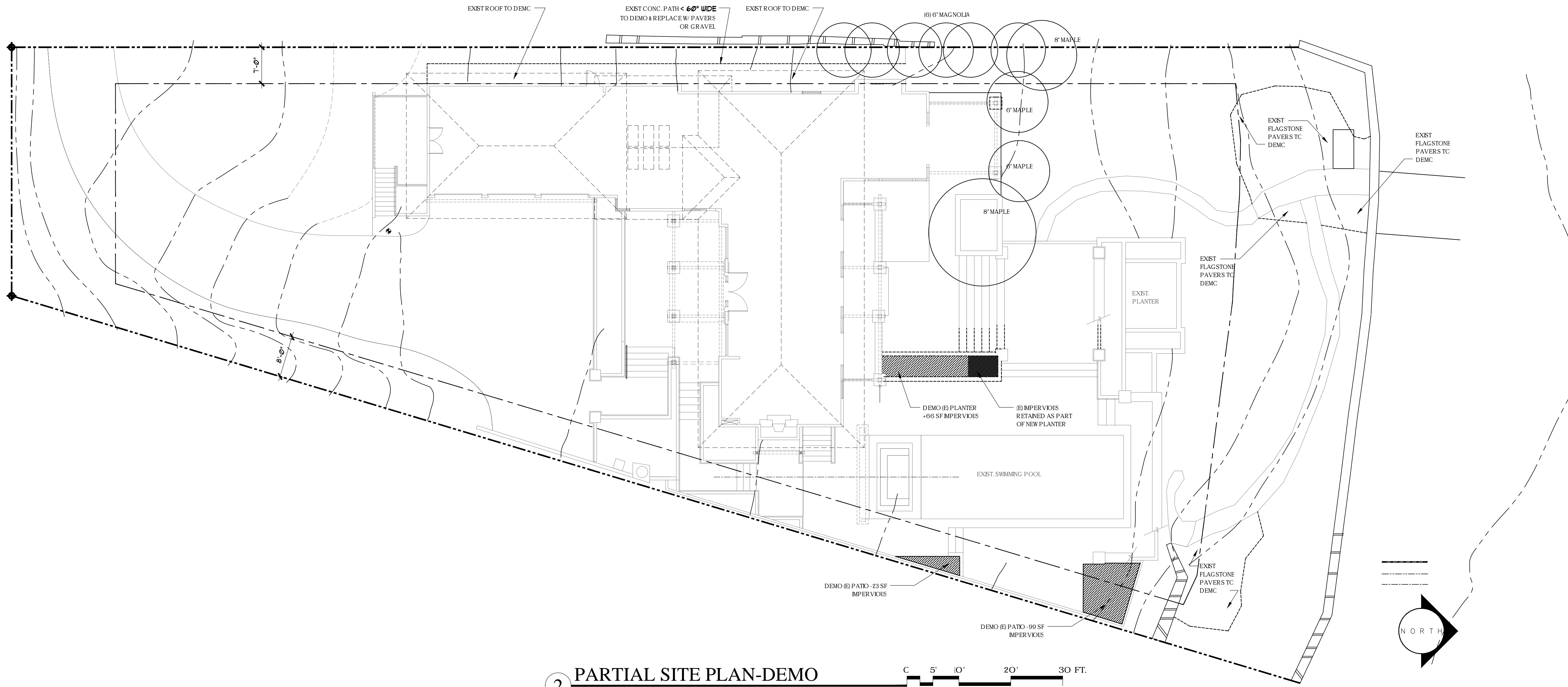
Job No. 2110
 Project Manager: TB
 Issue Date: 11/01/2021

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SITE PLAN

A1.1



2 PARTIAL SITE PLAN-DEMO
 SCALE: 1" = 10'-0"
 0 5' 10' 20' 30 FT.

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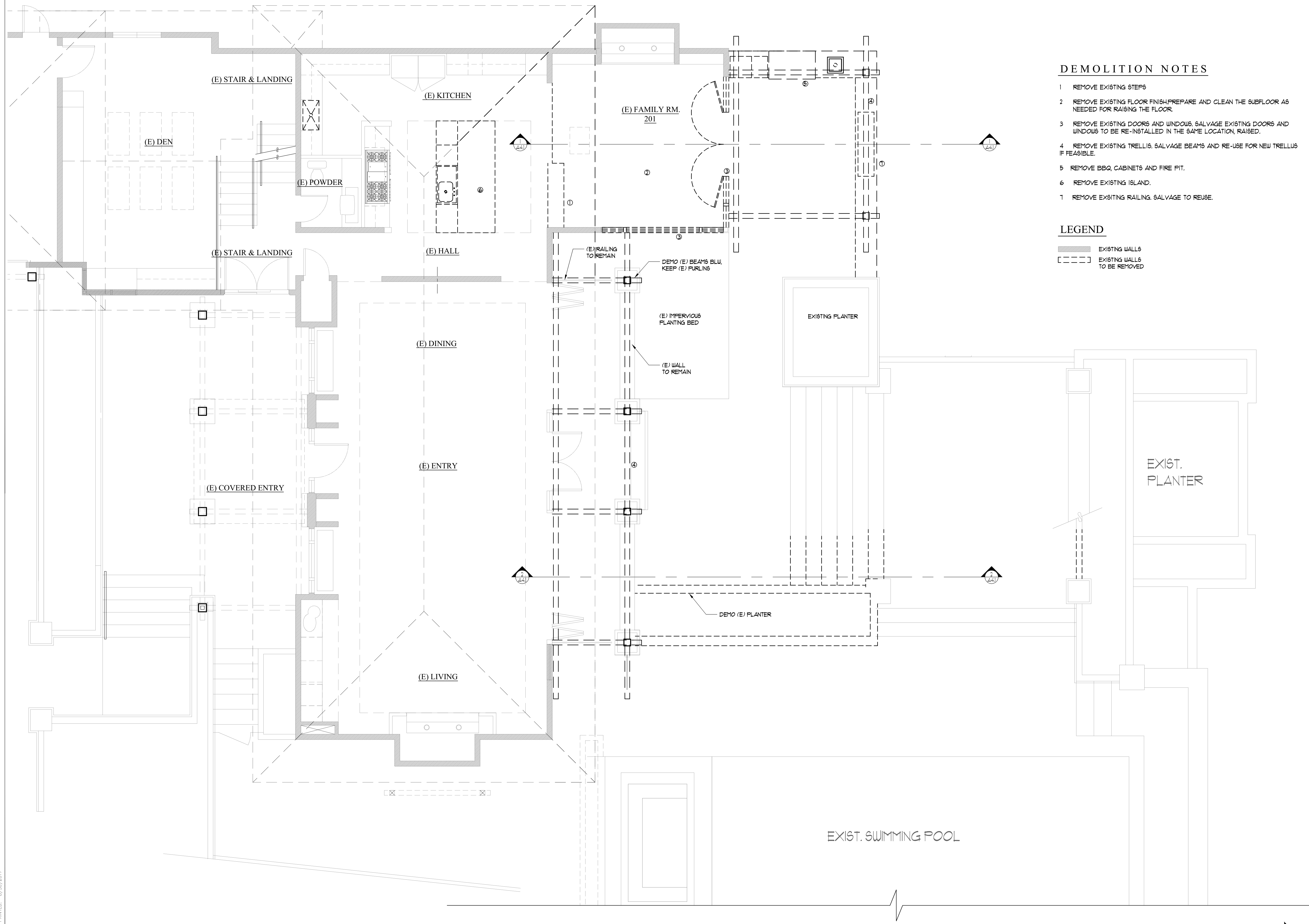
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SITE DEMO PLAN

A1.1D

FILE: xFPM_0817.dwg PRINTED: 8/30/2017



DEMOLITION NOTES

- 1 REMOVE EXISTING STEPS
- 2 REMOVE EXISTING FLOOR FINISH/PREPARE AND CLEAN THE SUBFLOOR AS NEEDED FOR RAISING THE FLOOR.
- 3 REMOVE EXISTING DOORS AND WINDOWS. SALVAGE EXISTING DOORS AND WINDOWS TO BE RE-INSTALLED IN THE SAME LOCATION, RAISED.
- 4 REMOVE EXISTING TRELLIS. SALVAGE BEAMS AND RE-USE FOR NEW TRELLIS IF FEASIBLE.
- 5 REMOVE BBQ, CABINETS AND FIRE PIT.
- 6 REMOVE EXISTING ISLAND.
- 7 REMOVE EXISTING RAILING. SALVAGE TO REUSE.

LEGEND

- EXISTING WALLS
- EXISTING WALLS TO BE REMOVED



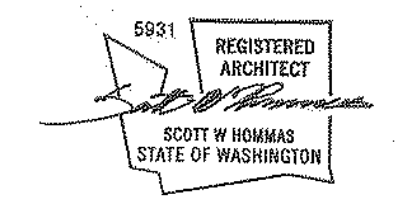
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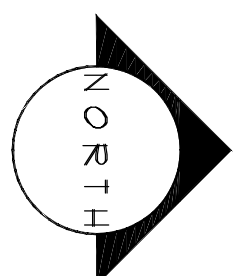
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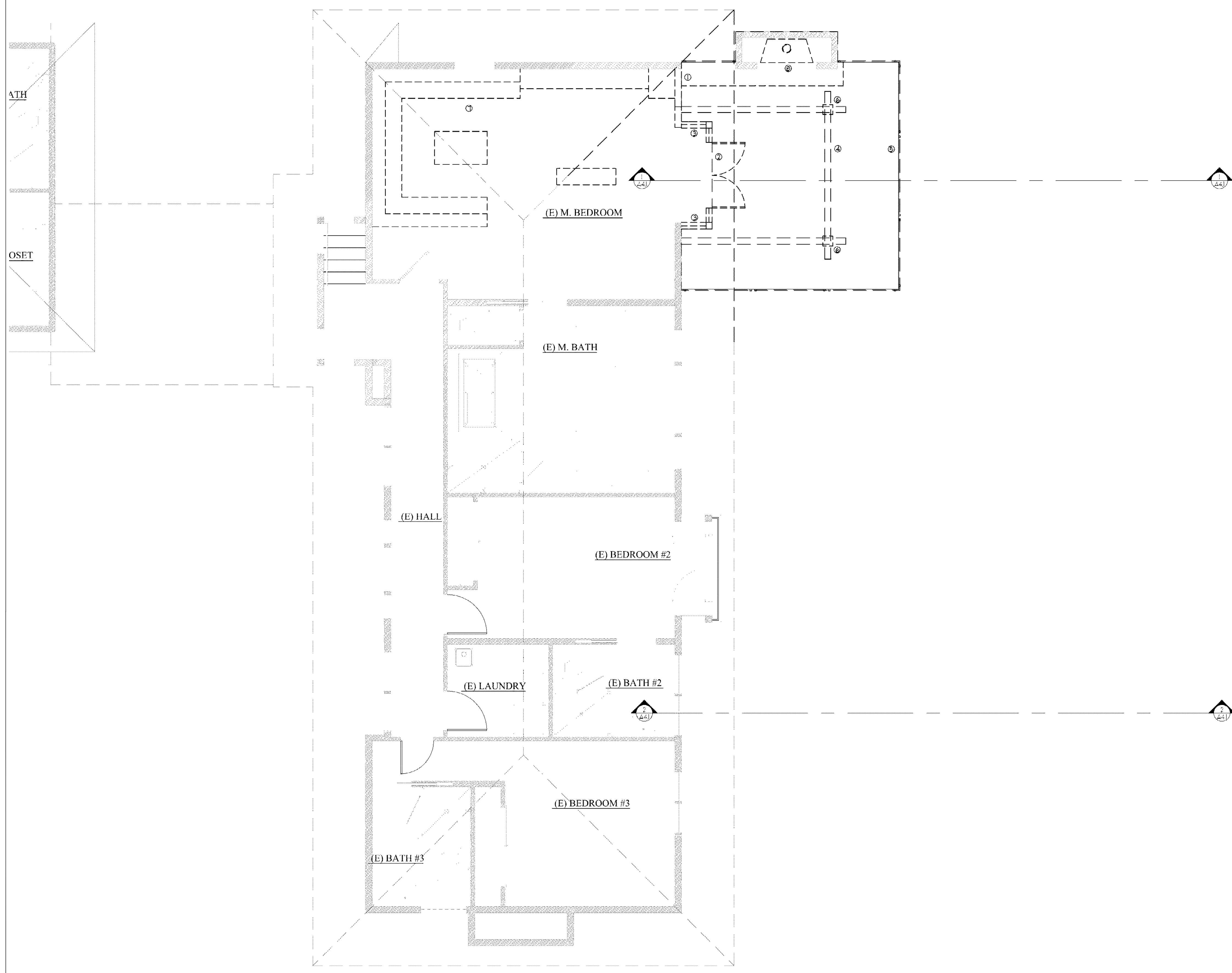


MAIN FLOOR
PLAN DEMO

A2.2D

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





DEMOLITION NOTES

- 1 REMOVE EXISTING WALLS PER PLAN.
- 2 REMOVE EXISTING DOOR. SALVAGE TO BE REUSED.
- 3 REMOVE EXISTING WINDOWS. SALVAGE TO BE REUSED.
- 4 REMOVE EXISTING TRELLIS. SALVAGE BEAMS AND RE-USE FOR NEW TRELLIS IF FEASIBLE.
- 5 REMOVE EXISTING RAILING. SALVAGE TO REUSE IF FEASIBLE.
- 6 REMOVE EXISTING COLUMN. SALVAGE TO REUSE IF POSSIBLE.
- 7 REMOVE EXISTING CABINETS.
- 8 DEMO GAS FIREPLACE. SALVAGE TO REUSE.

LEGEND

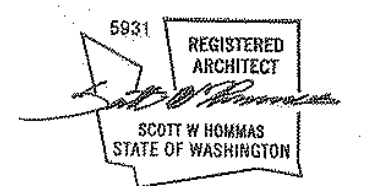
- EXISTING WALLS
- EXISTING WALLS TO BE REMOVED

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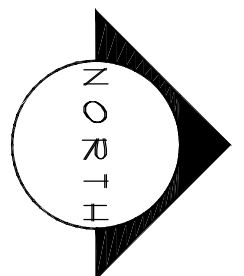
NO.	DATE	REVISION

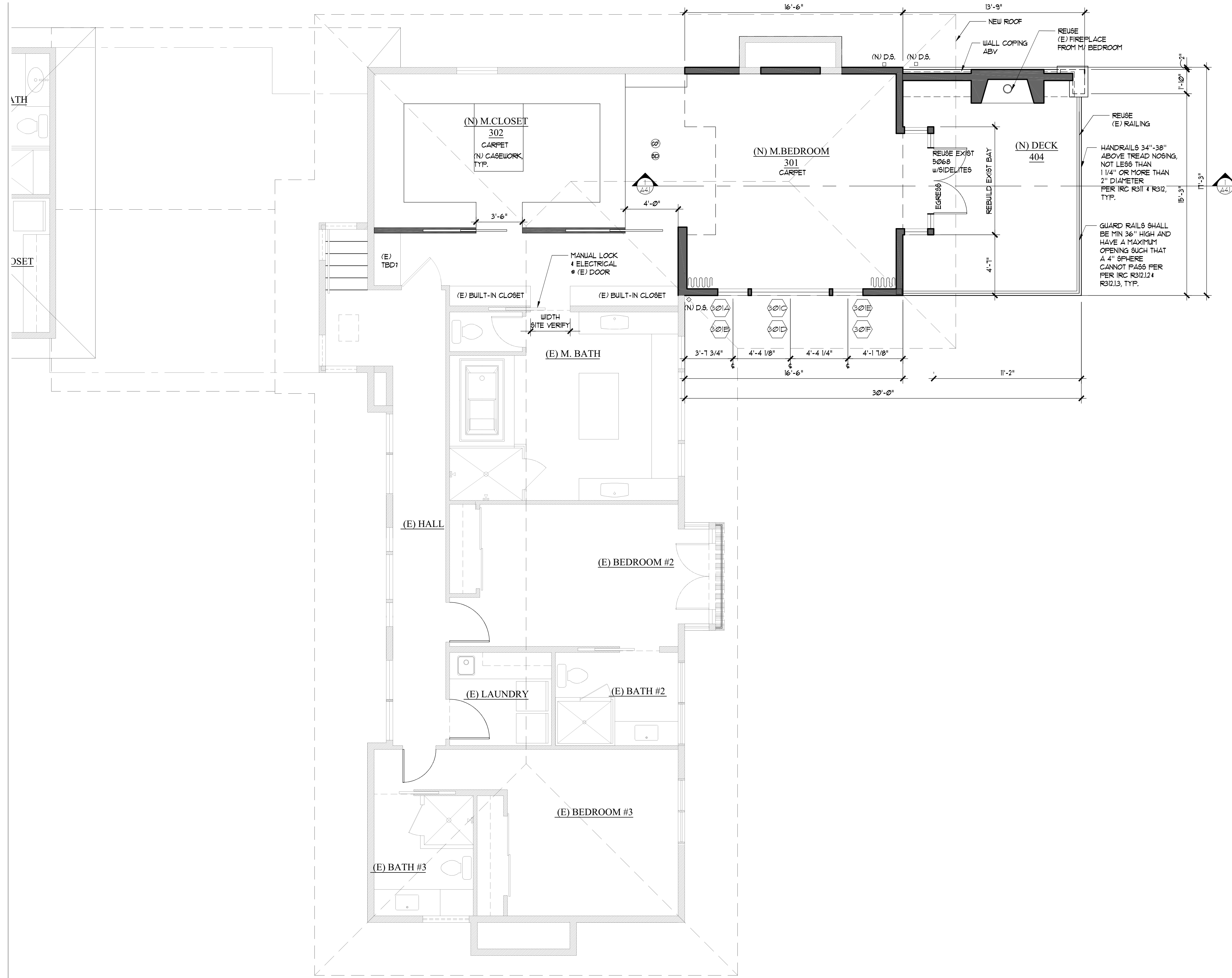


UPPER FLOOR PLAN-DEMO

A2.3D

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





LEGEND

- EXISTING WALLS
- NEW WALLS

SQUARE FOOTAGE

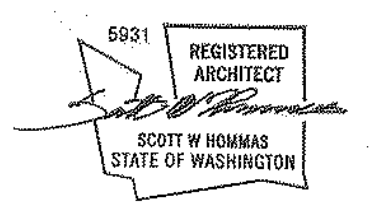
EXISTING HOUSE:	2,333 SF
EXISTING DECK:	283 SF
TOTAL EXISTING AREA:	2,616 SF
DECK TO BE DEMOLISHED:	-283 SF
NEW FINISHED AREAS:	302 SF
NEW DECK:	214 SF
TOTAL PROPOSED AREA:	2,849 SF

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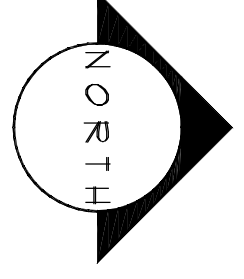
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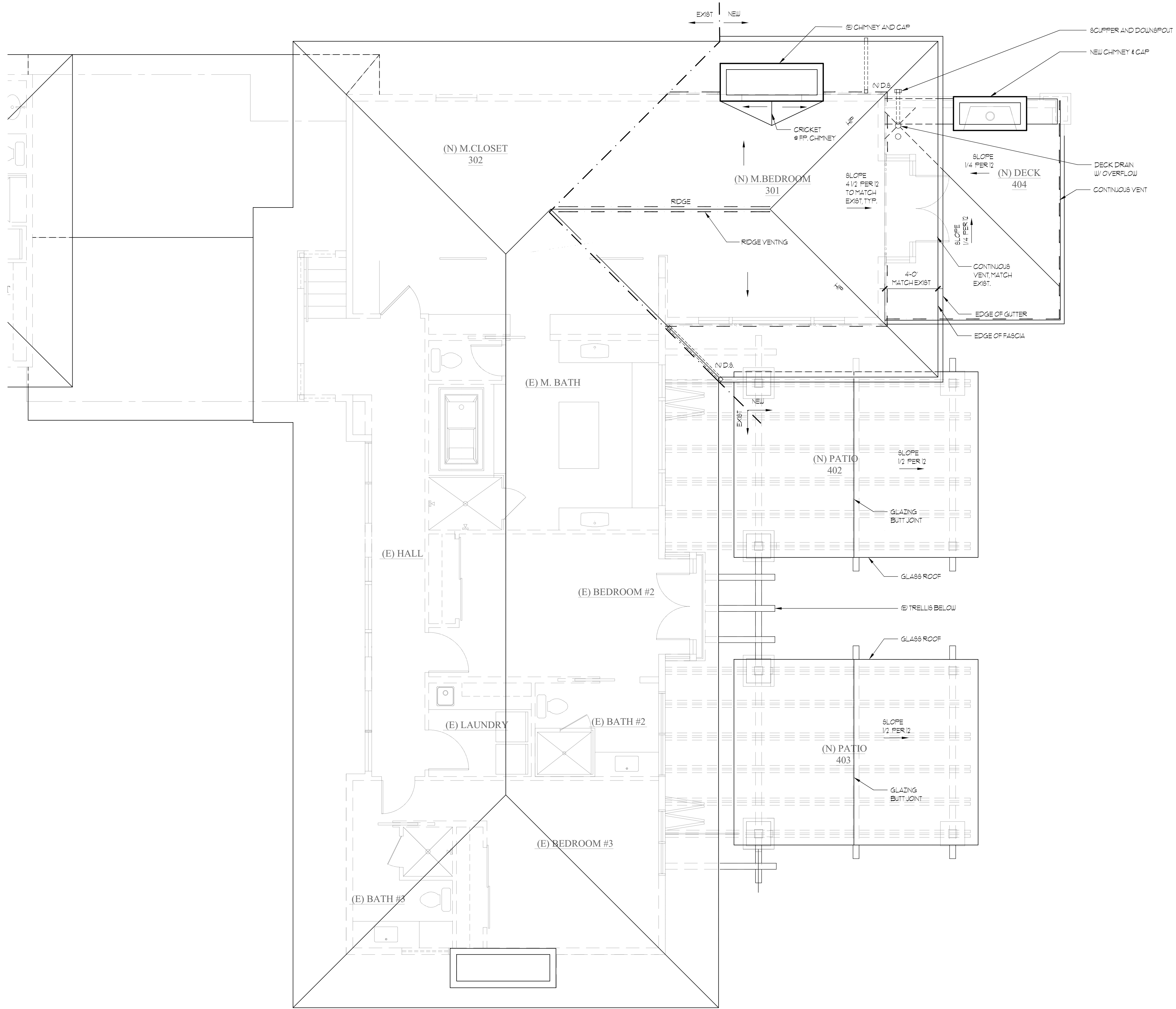


UPPER FLOOR PLAN

A2.3

1 PROPOSED UPPER FLOOR PLAN





ROOF VENTING CALCS

EAVE VENTING
 VENTING PRODUCT COR-A-VENT 5-400# LOWER EAVES
 10 DQ N NFVA/LINEAL FOOT (0.144x0.0694 SQ FT/LINEAL FOOT)

RIDGE VENTING
 VENTING PRODUCT COR-A-VENT V300#35 SQ N NFVA/LINEAL
 FOOT (0.35 SQ N /44x0.93 SQ FT)

ROOF AREA= 576 SF
 REQUIRED VENTING AREA: 1/300x576= 192 SF
 TOTAL VENTING PROVIDED: 3.25 SF

EAVE VENTING= 34.25 LINEAL FEET
 34.25x0.0694= 2.37 SF (0.36 SF REQUIRED)
 RIDGE VENTING= 16 LINEAL FEET
 16x0.093= 1.48 SF (0.36 SF REQUIRED)

DECK AREA= 22 SF
 REQUIRED VENTING AREA: 1/180x22= 1.41 SF
 TOTAL VENTING PROVIDED: 2.04 SF

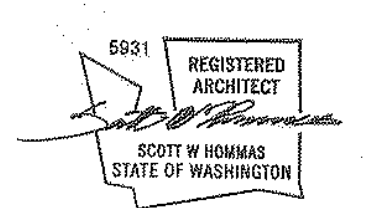
EAVE VENTING= 22.08 LINEAL FEET
 22.08x0.0694= 2.04 SF

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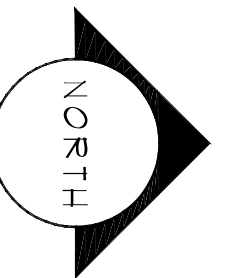


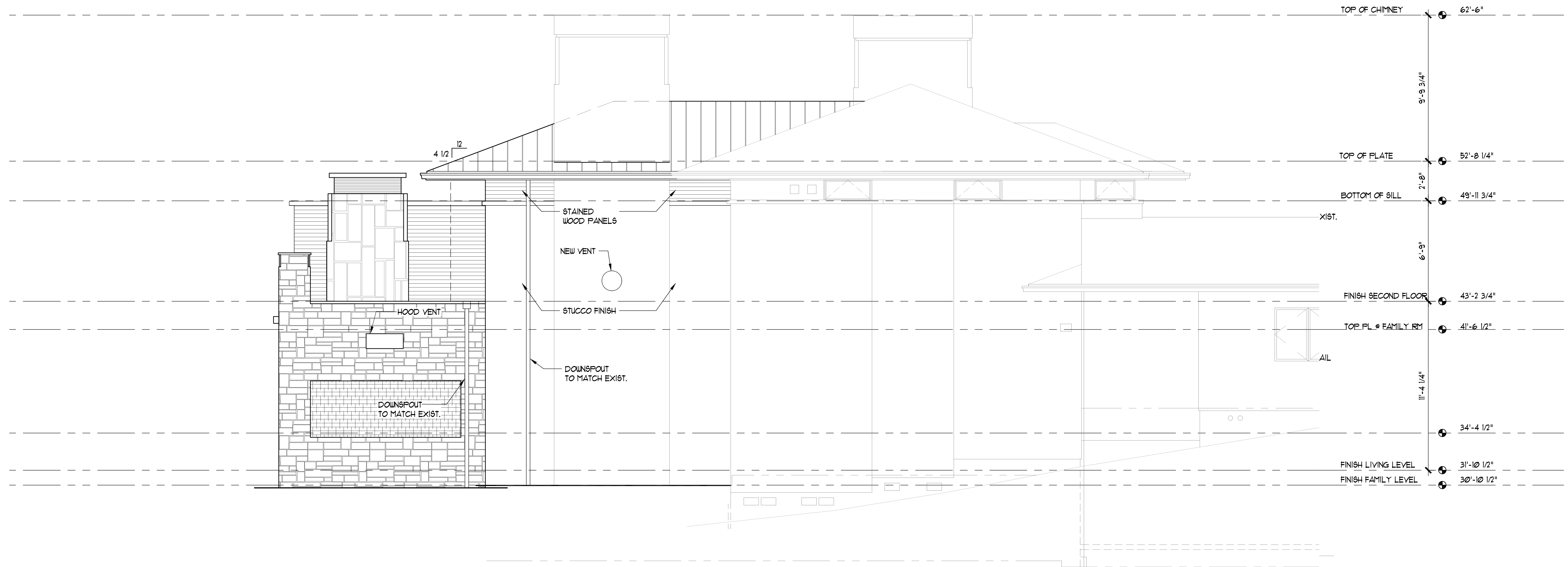
ROOF FLOOR PLAN

A2.4

FILE: A2.4 PRINTED: 8/30/2017

1 PROPOSED ROOF PLAN
 SCALE: 1/4" = 1'-0"



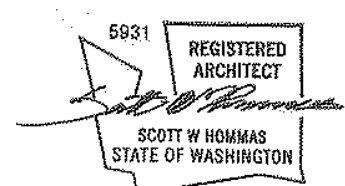


1 EAST ELEVATION
SCALE: 1/4" = 1'-0"

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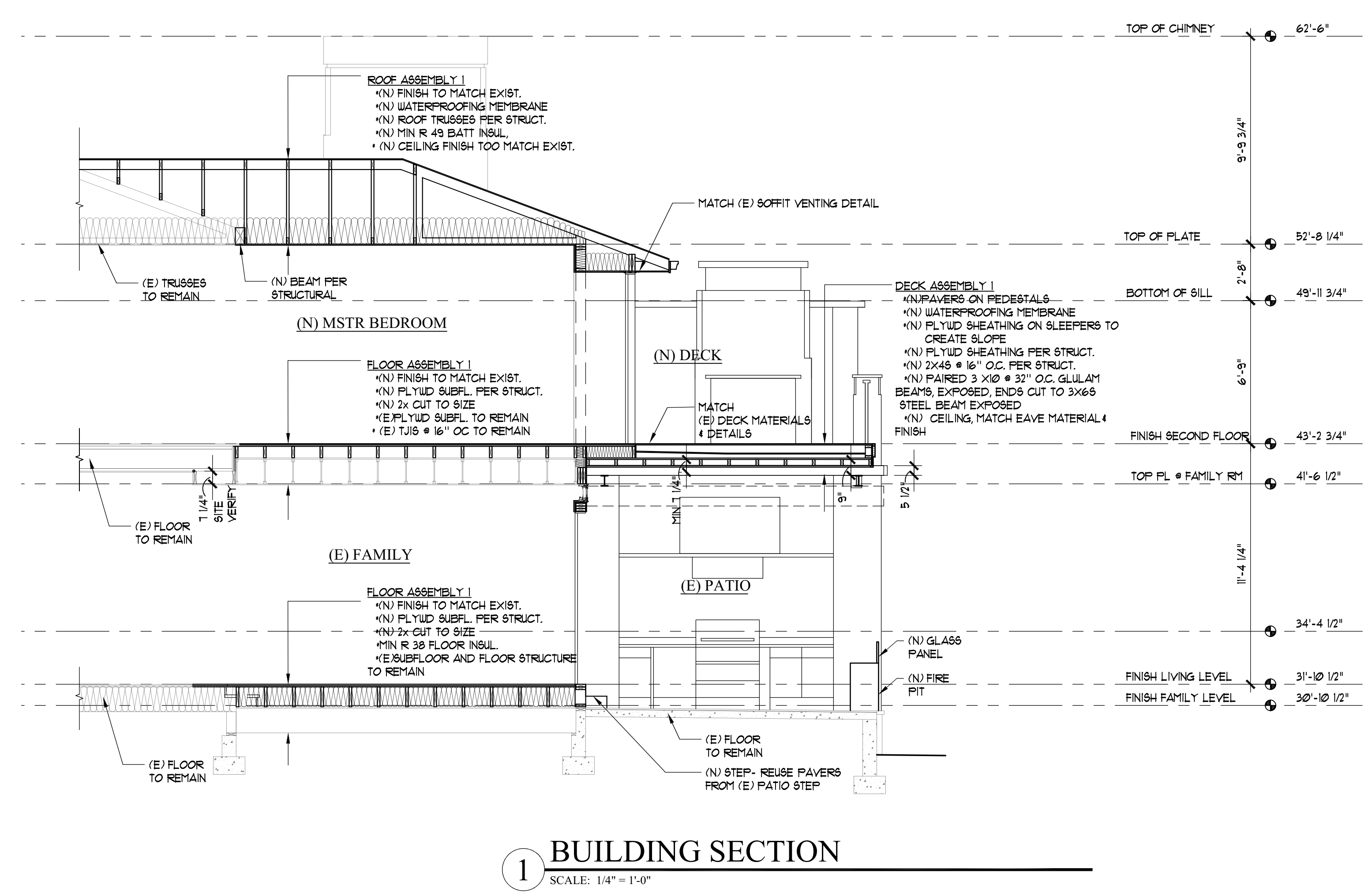
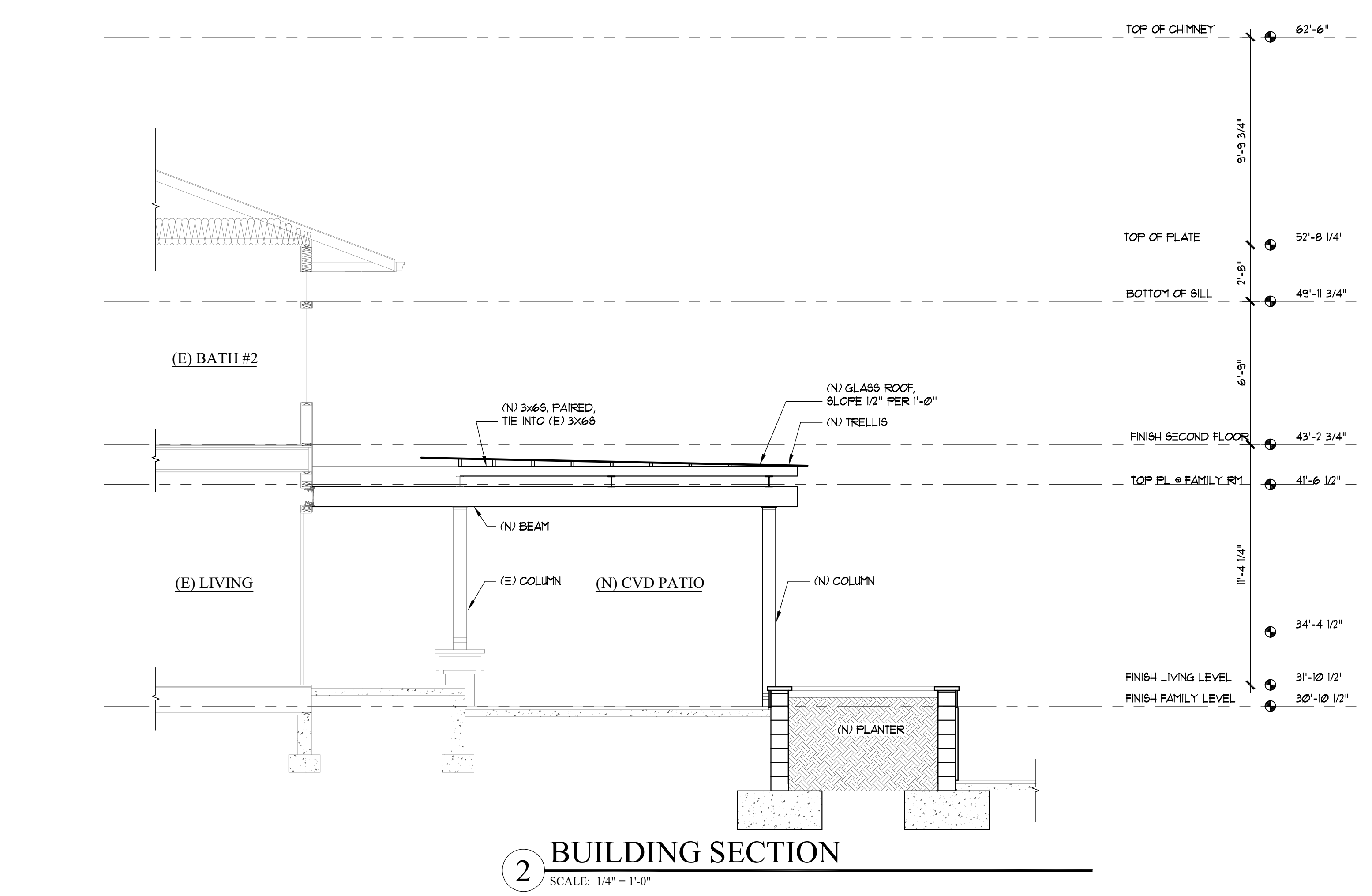
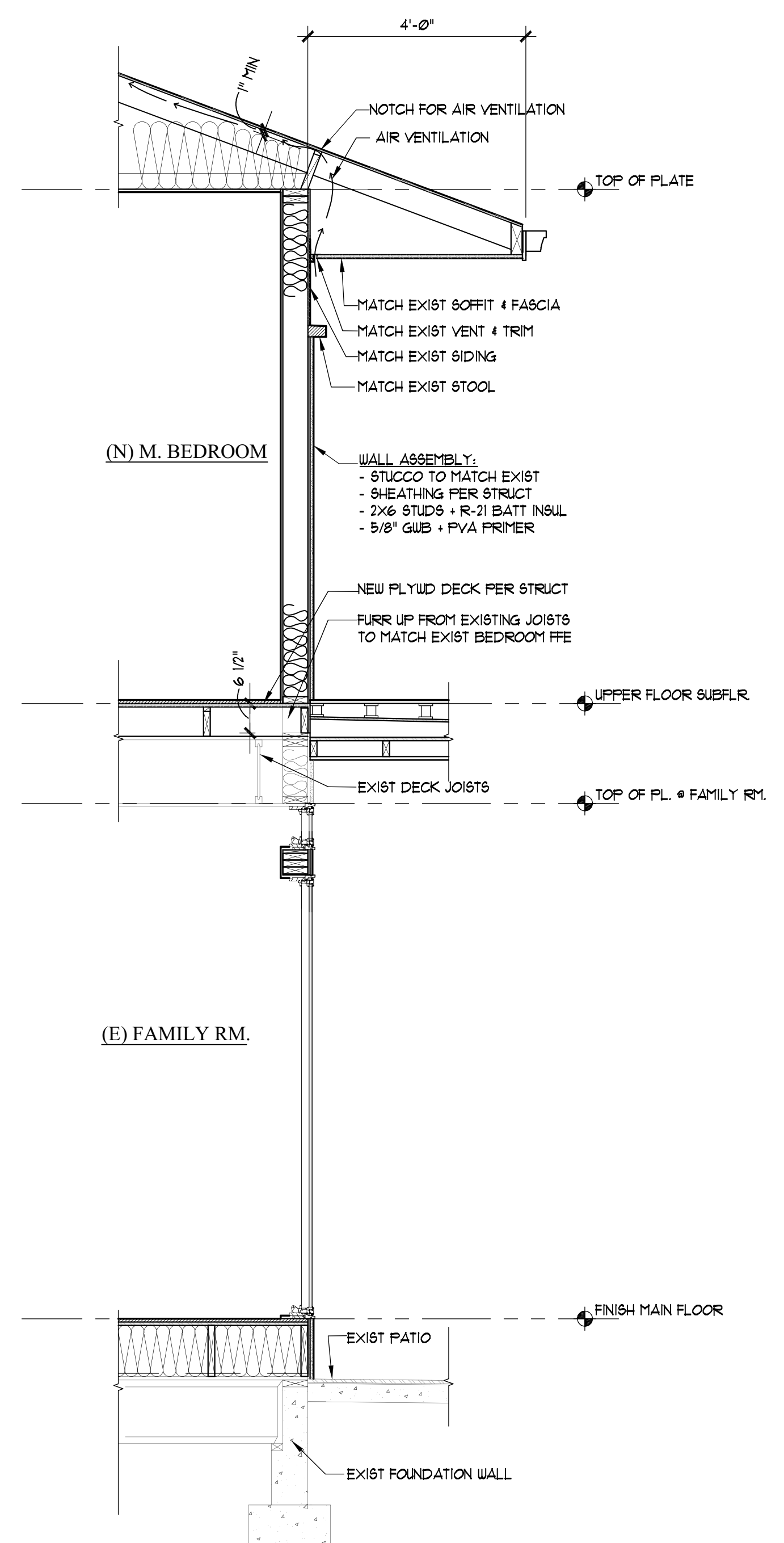
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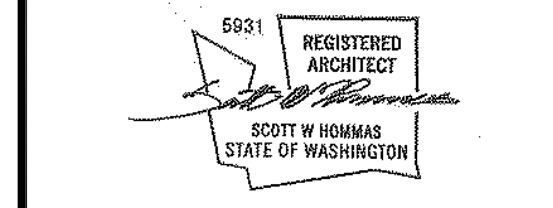


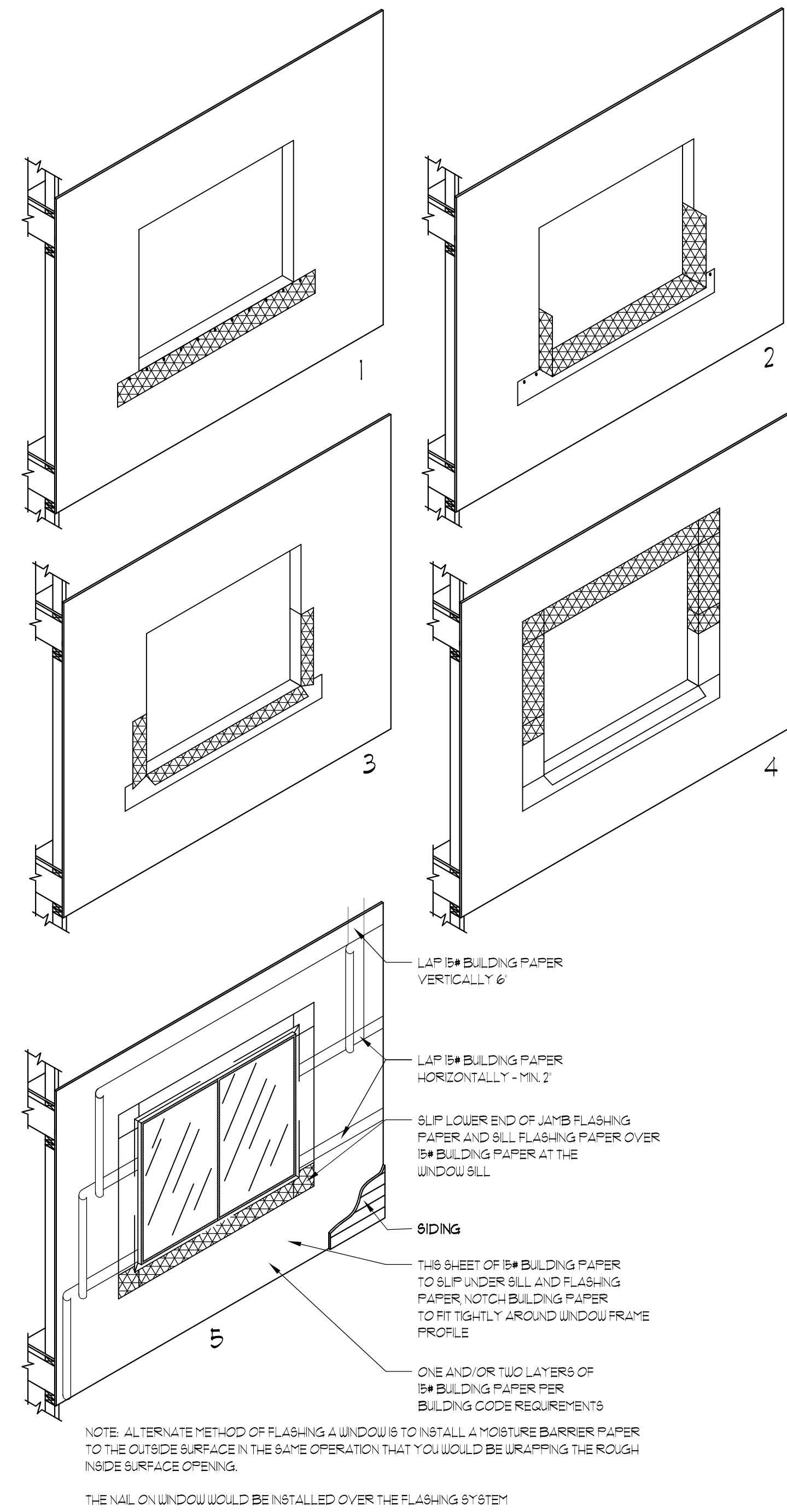
EXTERIOR ELEVATIONS

A3.2



NO.	DATE	REVISION



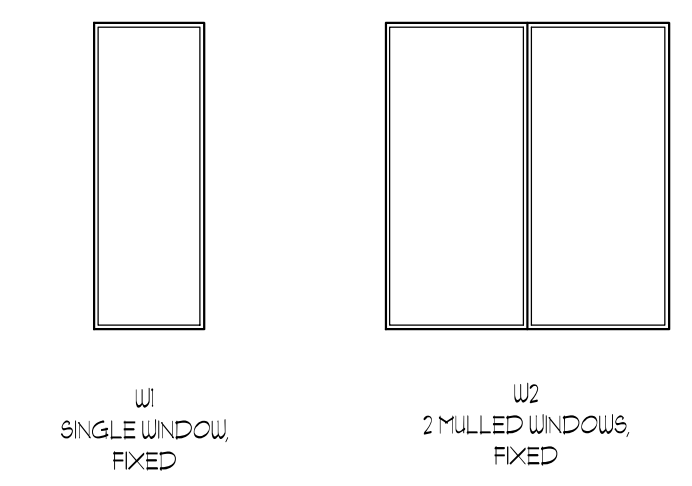


NOTE: ALTERNATE METHOD OF FLASHING A WINDOW IS TO INSTALL A MOISTURE BARRIER PAPER TO THE OUTSIDE SURFACE IN THE SAME OPERATION THAT YOU WOULD BE WRAPPING THE ROUGH INSIDE SURFACE OPENING.

THE NAIL ON WINDOW WOULD BE INSTALLED OVER THE FLASHING SYSTEM

TYPICAL WINDOW FLASHING DETAILS

EXTERIOR WINDOWS SCHEDULE								
#	WIDTH	HEIGHT	HEADER HEIGHT	TYPE	GRILLES	EGRESS	SAFETY GLASS	REMARKS
301A	2'-3 1/2"	6'-4 1/2"	6'-6"	W1	NO	NO	YES	
301B	2'-3 1/2"	1'-5"	8'-2 1/2"	W1	NO	NO	NO	
301C	5'-10 3/4"	6'-4 1/2"	6'-6"	W2	NO	NO	YES	
301D	5'-10 3/4"	1'-5"	8'-2 1/2"	W1	NO	NO	NO	
301E	2'-3 1/2"	6'-4 1/2"	6'-6"	W1	NO	NO	YES	
301F	2'-3 1/2"	1'-5"	8'-2 1/2"	W1	NO	NO	NO	



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HARRIS REMODEL

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10/01/2021



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Project Title

HARRIS REMODEL

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Mercer Island, WA 98040

Project Information

Project No. 21-127-01
Checked By KA

Issue

Permit Set 10/01/2021

Department Approval

Sheet Title

STRUCTURAL
TITLE SHEET

Sheet Number

S1.1

ABBREVIATIONS

@	AT	JST	JOIST
∅	DIAMETER	JT	JOINT
#	POUND OR NUMBER	K	KIPS = 1000 LBS
AAC	AUTOCLAVED AERATED CONCRETE	KSI	KILOPOUNDS PER SQUARE INCH
AB	ANCHOR BOLT	L	ANGLE
ADJ	ADJACENT	LBS	POUNDS
AFF	ABOVE FINISH FLOOR	LVL	LEVEL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LVL	LAMINATED VENEER LUMBER
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	L&I	LABOR & INDUSTRIES DEPARTMENT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LLH	LONG LEG HORIZONTAL
ASD	ALLOWABLE STRESS DESIGN	LLV	LONG LEG VERTICAL
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	LOC	LOCATE, LOCATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	LONGIT	LONGITUDINAL
AWS	AMERICAN WELDING SOCIETY	LSL	LAMINATED STRAND LUMBER
AWC	AMERICAN WOOD COUNCIL	MB	MACHINE BOLT
BLKG	BLOCKING	MECH	MECHANICAL
BM	BEAM	MTL	METAL
BNDY	BOUNDARY	MFR	MANUFACTURER
BN	BOUNDARY NAILING	MIN	MINIMUM
BOT	BOTTOM	MC	MOISTURE CONTROL
BRG	BEARING	MPH	MILES PER HOUR
BS	BOTH SIDES	NS	NEAR SIDE
BTWN	BETWEEN	NDS	NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
CIP	CAST-IN-PLACE	NTS	NOT TO SCALE
CJ	CONSTRUCTION/CONTROL JOINT	NWT	NORMAL WEIGHT
CL	CENTERLINE	OC	ON CENTER
CLG	CEILING	OPP	OPPOSITE HAND
CLR	CLEAR	PAF	POWDER ACTUATED FASTENER
CLT	CROSS-LAMINATED TIMBER	PC	PRE-CAST
CMU	CONCRETE MASONRY UNIT	PCF	POUNDS PER CUBIC FOOT
COL	COLUMN	PERP	PERPENDICULAR
CONC	CONCRETE	PL	PLATE
CONT	CONTINUOUS	PLF	POUNDS PER LINEAR FOOT
CONTR	CONTRACTOR	PNL	PANEL
CSK	COUNTERSINK	PRE-ENG	PRE-ENGINEERED
CTR	CENTER	PSF	POUNDS PER SQUARE FOOT
CVR	COVER	PSI	POUNDS PER SQUARE INCH
DBA	DEFORMED BAR ANCHOR	PSL	PARALLEL STRAND LUMBER
DBL	DOUBLE	PW	PLYWOOD
DIAPH	DIAPHRAGM	REF	REFERENCE
DIM	DIMENSION	REINF	REINFORCEMENT
D	DEEP	REQ'D	REQUIRED
DF	DOUGLAS-FIR	RT	PRE-ENGINEERED ROOF TRUSS
DLT	DOWEL LAMINATED TIMBER	SBC	SEATTLE BUILDING CODE
DT	PRE-ENGINEERED DRAG TRUSS	SCHED	SCHEDULE
EA	EACH	SDI	STEEL DECK INSTITUTE
EL	ELEVATION	SDCI	SEATTLE DEPARTMENT OF CONSTRUCTION & INSPECTIONS
ELEV	ELEVATOR	SER	STRUCTURAL ENGINEER OF RECORD
EMBED	EMBEDMENT	SF	SQUARE FEET
EN	END NAILING	SHG	SHEATHING
ENGR	ENGINEER	SIM	SIMILAR
EOR	ENGINEER OF RECORD	SIMP	SIMPSON STRONG-TIE
EQ	EQUAL	SOG	SLAB ON GRADE
EQUIV	EQUIVALENT	SPCG	SPACING
EA FACE	EACH FACE	SRC	SEATTLE RESIDENTIAL CODE
EA SIDE	EACH SIDE	SS	STAINLESS STEEL
EA WAY	EACH WAY	STD	STANDARD
(E)	EXIST, EXISTING	STIFF	STIFFENER
ESR	ICC EVALUATION SERVICE REPORT	STRUC	STRUCTURAL
EXP	EXPANSION	SW	SHEAR WALL
EXT	EXTERIOR	SQ	SQUARE
FDN	FOUNDATION	T&G	TONGUE AND GROOVE
FF	FINISH FLOOR	THK	THICK
FFE	FINISH FLOOR ELEVATION	THRD	THREADED
FOC	FACE OF CONCRETE	TMS	THE MASONRY SOCIETY
FOM	FACE OF MASONRY	T&B	TOP & BOTTOM
FOS	FACE OF STUD	TO	TOP OF
FS	FAR SIDE	TOC	TOP OF CONCRETE
FT	FEET	TOS	TOP OF STEEL
FTG	FOOTING	TRANSV	TRANSVERSE
FT-LB	FOOT POUNDS	TRTD	TREATED
GA	GAGE	TS	TUBE STEEL
GALV	GALVANIZED	TYP	TYPICAL
GC	GENERAL CONTRACTOR	UNO	UNLESS NOTED OTHERWISE
GL	GLUE LAMINATED	VERT	VERTICAL
GLB	GLUE LAMINATED BEAM	VIF	VERIFY IN FIELD
GR	GRADE	WABO	WASHINGTON ASSOCIATION OF BUILDING OFFICIALS
GR	GRADE	W	WIDE
GT	PRE-ENGINEERED GIRDER TRUSS	w/	WITH
GWB	GYPSON WALL BOARD	w/o	WITHOUT
HGR	HANGER	WF	WIDE FLANGE
HDR	HEADER	WHS	WELDED HEADED STUD
HF	HEM-FIR	WTS	WELDED THREADED STUD
HSS	HOLLOW STRUCTURAL STEEL	WWF	WELDED WIRE FABRIC
HT	HEIGHT		
HORIZ	HORIZONTAL		
IBC	INTERNATIONAL BUILDING CODE		
ICF	INSULATED CONCRETE FORM		
IN	INCHES		
INT	INTERIOR		

GRAPHIC SYMBOL LEGEND

	CONCRETE WALL (ABOVE)
	CONCRETE WALL (BELOW)
	CMU WALL (ABOVE)
	CMU WALL (BELOW)
	WOOD/CFB SHEAR WALL (ABOVE)
	WOOD/CFB STUD WALL (ABOVE)
	WOOD/CFB STUD WALL (BELOW)
	CONCRETE COLUMN (ABOVE)
	CONCRETE COLUMN (BELOW)
	WOOD POST (ABOVE)
	WOOD POST (BELOW)
	STEEL HSS COLUMN (ABOVE)
	STEEL HSS COLUMN (BELOW)
	STEEL WIDE FLANGE COLUMN (ABOVE)
	STEEL WIDE FLANGE COLUMN (BELOW)
	BEAM/JOIST
	BRACED FRAME BEAM
	GRID LINE
	CENTERLINE
	CONCRETE BY OTHERS (CUT)
	GRAVEL (CUT)
	EARTH (CUT)
	SIMPSON TENSION TIE HOLDOWN
	NUMBER OF KINGS PLUS TRIMMERS
	JOIST SPAN w/ HANGER
	JOIST SPAN
	DECK SPAN
	EXTENT
	OVERFRAMING
	BLOCKED DIAPHRAGM
	CONCRETE COLUMN TYPE
	SURFACE SLOPE PER ARCHITECT
	DETAIL REFERENCE NO.
	SECTION CALLOUT
	SHEET REFERENCE NO.
	DETAIL REFERENCE NO.
	ELEVATION CALLOUT
	SHEET REFERENCE NO.
	DETAIL REFERENCE NO.
	DETAIL CALLOUT
	SHEET REFERENCE NO.
	HIGH SIDE
	FOOTING STEP

SHEET INDEX	
SHEET NUMBER	SHEET NAME
S1.1	STRUCTURAL TITLE SHEET
S1.2	STRUCTURAL GENERAL NOTES
S1.3	STRUCTURAL GENERAL NOTES
S1.4	STRUCTURAL GENERAL NOTES
S2.1	FOUNDATION PLAN
S2.2	MAIN LEVEL FRAMING PLAN
S2.3	UPPER LEVEL FRAMING PLAN
S2.4	ROOF FRAMING PLAN
S3.1	STRUCTURAL CONCRETE DETAILS
S5.1	STRUCTURAL STEEL DETAILS
S6.1	STRUCTURAL WOOD DETAILS
S6.2	STRUCTURAL WOOD DETAILS
S6.3	STRUCTURAL WOOD DETAILS



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Engineer's Stamp



Project Title

HARRIS REMODEL

1640 72nd Ave SE
 Mercer Island, WA 98040

Project Information

Project No.	21-127-01
Checked By	KA

Issue

Permit Set	10/01/2021
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Department Approval

Sheet Title

**STRUCTURAL
 GENERAL NOTES**

Sheet Number

S1.4

PREFABRICATED WOOD ROOF TRUSSES

PREFABRICATED CONNECTOR-PLATE WOOD ROOF TRUSSES

Prefabricated connector plate wood roof truss loading shall be as follows:

top chord snow load	25 psf unless noted otherwise in the load criteria
top chord dead load	10 psf
bottom chord dead load	10 psf
bottom chord live load	10 psf (uninhabitable attics w/o storage)
bottom chord live load*	20 psf (uninhabitable attics w/ light storage or uninhabitable attics w/o storage, but containing areas where the clear distance between the top and bottom chords is greater than or equal to 42" for a horizontal distance of 24" involving (2) or more trusses)

* the bottom chord live load does not act concurrently with the roof live or snow load

See Architectural and Mechanical drawings for sprinkler and mechanical equipment loading. Wind uplift (top chord) per ASCE 7, use components and cladding loads, see loading criteria.

The truss manufacturer shall be responsible for the complete design, fabrication for all trusses, blocking, incidental framing, framing for openings, permanent member lateral restraint and bracing, bridging, connections, holdown anchors, and all other items required for a complete truss system. Truss configurations are shown on the Architectural or Structural drawings. The truss manufacturer shall have at least 3 years experience in the fabrication of prefabricated wood trusses. Truss installer shall be responsible for erection procedures and temporary lateral restraint for a safe installation of the trusses.

Prefabricated wood trusses shall be metal plate connected wood trusses designed and fabricated in accordance with the current ANSI/TPI.1 requirements to support their own weight plus superimposed dead, live, uplift and lateral loads shown on the drawings. Contractor shall submit design calculations and truss design drawings in accordance with the Deferred Submittal Section to the Architect and Structural Engineer of Record. Design calculations and truss design drawings shall be approved by the Architect and the building official prior to manufacturing the trusses.

Truss design drawings are the written, graphic and pictorial depiction of each individual truss. Truss design drawings shall be provided with the shipment of trusses delivered to the job site. Truss design drawings shall include, at a minimum, all items covered in ANSI/TPI.1 2.3.5.5.

Design of trusses shall consider deflection of trusses relative to adjacent parallel supports and include design of bridging, bracing, additional trusses or other means necessary to alleviate problems resulting from differential deflections.

Load criteria for wind and seismic loading are indicated on the general notes, vertical loads are indicated above and in the load maps. Trusses shall be designed to limit total deflections to a maximum of span/600 or 1/4", whichever is smaller. Provided a more stringent deflection requirement is not needed to accommodate brittle finishes.

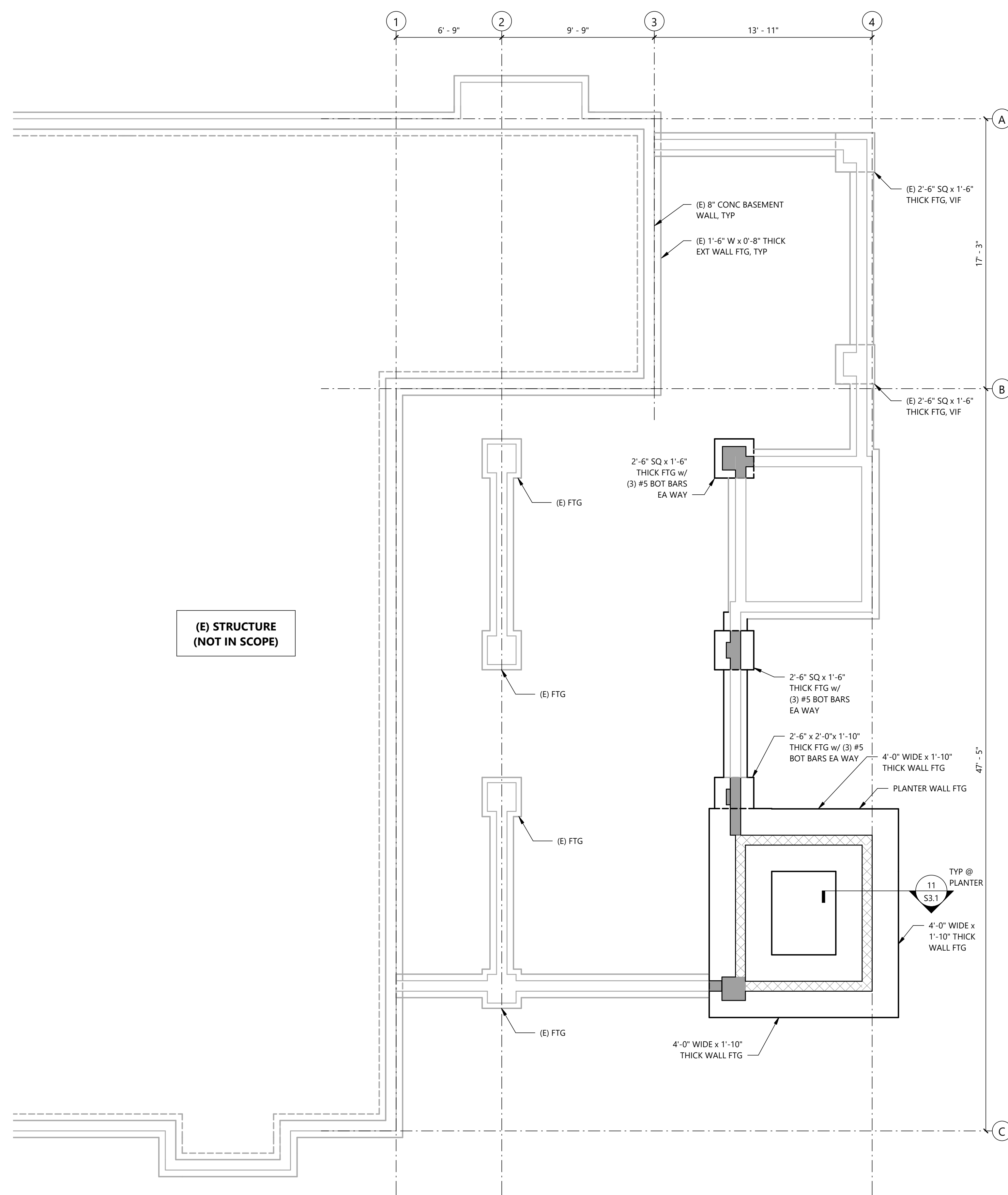
The truss manufacturer shall provide a Truss Placement Diagram (TPD) that identifies the proposed location for each individually designated truss and references the corresponding truss design drawing. The TPD shall be provided as part of the truss submittal package, and with the shipment of trusses delivered to the job site. The TPD is not required to bear the seal or signature of the truss designer unless the TPD is prepared under the direct supervision of a registered design professional, in which case the TPD is required by Washington state law to be signed and sealed a civil or Structural Engineer licensed in the governing jurisdiction. The Truss Submittal Package (TSP) shall consist of each individual truss design drawing, the TPD, the permanent individual member lateral restraint and bracing details or specifications or drawings and the cover sheet/truss index sheet.

Where permanent individual member lateral restraint and bracing of truss members is required on the truss design drawings, it shall be accomplished by ANSI/TPI.1 2.3.3.1.1 or 2.3.3.1.2.

Erection bracing and bridging sizes and spacing shall be as required by the truss manufacturer in accordance with the latest recommendations of the Truss Plate Institute (TPI). Install and lap bracing and bridging per latest TPI recommendations.

Additional trusses shall be designed and supplied as required to support mechanical equipment, piping, ducts, etc. All connectors specified by the truss manufacturer shall have current ICC approval and shall be designed and sized for twice the calculated load. No offsets for connections will be permitted. Truss manufacturer is responsible for truss to truss connections. General Contractor is responsible for equipment connections to trusses.

Truss members and components shall not be cut, notched, drilled, spliced or otherwise altered in any way without written consent and approval of a registered design professional. New load or changes in loads resulting in the addition of loads to any truss (e.g., HVAC equipment, water heater, piping, ducts, etc.) shall not be permitted without verification that the truss is capable of supporting such additional loading.



FOUNDATION PLAN NOTES

1. GENERAL

- 1.1 ELEVATION AT TOP OF SLAB SHALL BE PER ARCH, UNO.
[-'X'-X"] INDICATES ELEVATION AT TOP OF FOOTING, MEASURED IN FEET.
FOOTING ELEVATIONS SHOWN ARE FOR CONTRACTOR CONVENIENCE AND BIDDING ONLY. FINAL ELEVATIONS SHALL BE DETERMINED BY ON-SITE VERIFICATION BY SOILS ENGINEER, BUT SHALL NOT BE SHALLower THAN THOSE SHOWN ON THIS PLAN. REFER TO STRUCTURAL GENERAL NOTES FOR ADDITIONAL INFORMATION.
- 1.2 GRID LINES ARE TO FACE STUD AND CENTERLINE OF COLUMN. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
- 1.3 EXISTING CONDITIONS ARE ASSUMED AND MUST BE VERIFIED BY THE CONTRACTOR. WHERE DISCOVERED CONDITIONS VARY FROM THOSE SHOWN ON PLANS, CONTRACTOR SHALL CONTACT THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
- 1.4 WHEREVER NEW CONCRETE ABUTS EXISTING CONCRETE, ADD DOWELS TO MATCH REINFORCEMENT IN NEW CONSTRUCTION. LAP DOWELS WITH NEW REINFORCEMENT PER TYPICAL LAP SPICE TABLE AND EMBED INTO EXISTING CONCRETE WITH EPOXY GROUT PER STRUCTURAL GENERAL NOTES.
FOR BARS #5 AND SMALLER: EMBED 6" MIN;
FOR BARS #6 AND LARGER: EMBED 9" MIN.

2. FOUNDATIONS

- 2.1 EXCAVATE, BACKFILL, AND PREPARED SOILS AS REQUIRED PER STRUCTURAL GENERAL NOTES AND GEOTECHNICAL REPORT.



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Project Title

HARRIS REMODEL

1640 72nd Ave SE
Mercer Island, WA 98040

Project Information

Project No.	21-127-01
Checked By	KA

Issue

Permit Set	10/01/2021
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Department Approval

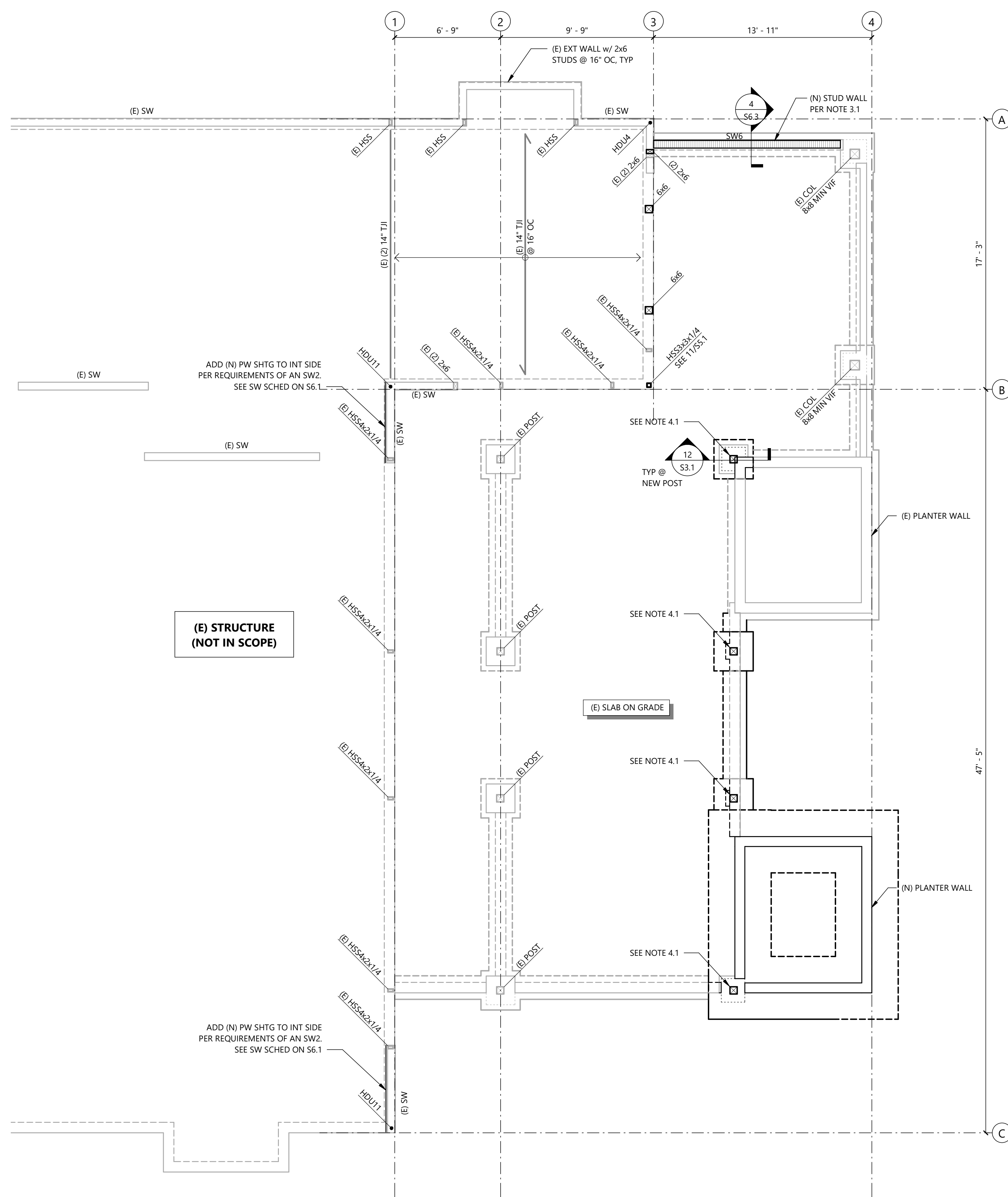
Sheet Title

FOUNDATION
PLAN

Sheet Number

S2.1





FLOOR FRAMING PLAN NOTES

1. GENERAL

- 1.1. ELEVATION AT TOP OF SHEATHING SHALL BE PER ARCH, UNLESS NOTED OTHERWISE.
- 1.2. GRID LINES ARE TO FACE OF STUD AND CENTERLINE OF COLUMN. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
- 1.3. EXISTING CONDITIONS ARE ASSUMED AND MUST BE VERIFIED BY THE CONTRACTOR, WHERE DISCOVERED CONDITIONS VARY FROM THOSE SHOWN ON PLANS, CONTRACTOR SHALL CONTACT THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.

2. FLOORS

- 2.1. FLOOR SHALL BE 23/32" APA-RATED SHEATHING, (48/24) EXPOSURE 1, TONGUE & GROOVE, GLUED AND NAILED. WHERE BLOCKED DIAPHRAGM IS NOTED ON PLAN, USE 2x FLAT BLOCKING AND 'Z' CLIPS AT UNSUPPORTED PANEL EDGES.

NAIL SHEATHING AS FOLLOWS:

FLOOR BOUNDARY (BN).....	10d @ 6"
PANEL EDGES (EN).....	10d @ 6"
OTHER SUPPORTS, FIELD NAILING.....	10d @ 10"
BLOCKING, INTERIOR RIM JOISTS & STRUTS.....	10d @ 4"

NAILS SHALL BE DRIVEN FLUSH WITH THE FACE OF SHEATHING. GLUE SHALL CONFORM TO APA AFG-01.

- 2.2. TYPICAL RIM JOISTS SHALL BE MINIMUM 1 1/2" LSL, UNO. REFER TO SHEAR WALL SCHEDULE FOR ADDITIONAL REQUIREMENTS AT RIMS.
- 2.3. TYPICAL HEADER SHALL BE 4x10 DF NO. 2, UNLESS NOTED OTHERWISE.
- 2.4. TYPICAL HANGERS SHALL BE SIMPSON JB OR LU, UNLESS NOTED OTHERWISE.

3. WALLS

- 3.1. STRUCTURAL WALL STUDS AT THIS LEVEL SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:
 EXTERIOR WALLS.....2x6 @ 16" OC
 INTERIOR WALLS.....2x6 @ 16" OC

SEE DETAIL SHEET S6.1 FOR TYPICAL WALL FRAMING REQUIREMENTS AND FOR TYPICAL SHEAR WALL REQUIREMENTS. FRAME ALL SHEAR WALL INTERSECTIONS PER TYPICAL DETAILS.

- 3.2. USE (1) KING STUD AND (1) TRIMMER STUD AT EXTERIOR HEADERS AT THIS LEVEL, UNLESS NOTED OTHERWISE.
- 3.3. ALL EXTERIOR WALLS SHALL BE CONSTRUCTED AS SW6 PER TYPICAL SHEAR WALL SCHEDULE, UNLESS NOTED OTHERWISE.

4. TRELLIS

- 4.1. TRELLIS COLUMNS TO MATCH EXISTING TRELLIS COLUMN SIZE. VERIFY IN FIELD. COLUMNS SHALL BE 8x8 DF NO 1 MIN.

LEGEND

	STRUCTURAL WALL BELOW WITH HEADER (CONT WALL PLATES)
	STRUCTURAL WALL BELOW WITH FLUSH BEAM (BREAK WALL PLATES)
	STRUCTURAL WALL THIS LEVEL WITH CONT SILL PLATE AT OPENING
	STRUCTURAL WALL THIS LEVEL WITH BREAK IN SILL PLATE AT OPENING
	FLOOR JOIST & EXTENT
	BEAM PER PLAN OR HEADER PER NOTE 2.3
	JOIST HANGER PER NOTE 2.4
	SHEAR WALL PER S6.##
	SIMPSON STRAP TIE HOLDOWN USE (2) 2x MIN AT STRAPS; SEE S6.##
	NUMBER OF KINGS PLUS TRIMMERS, UP FROM THIS LEVEL
	INDICATES OVERFRAMING
	INDICATES BLOCKED DIAPHRAGM PER NOTE 2.1
	STRAP & BLOCKING PER PLAN
	STRAP PER PLAN



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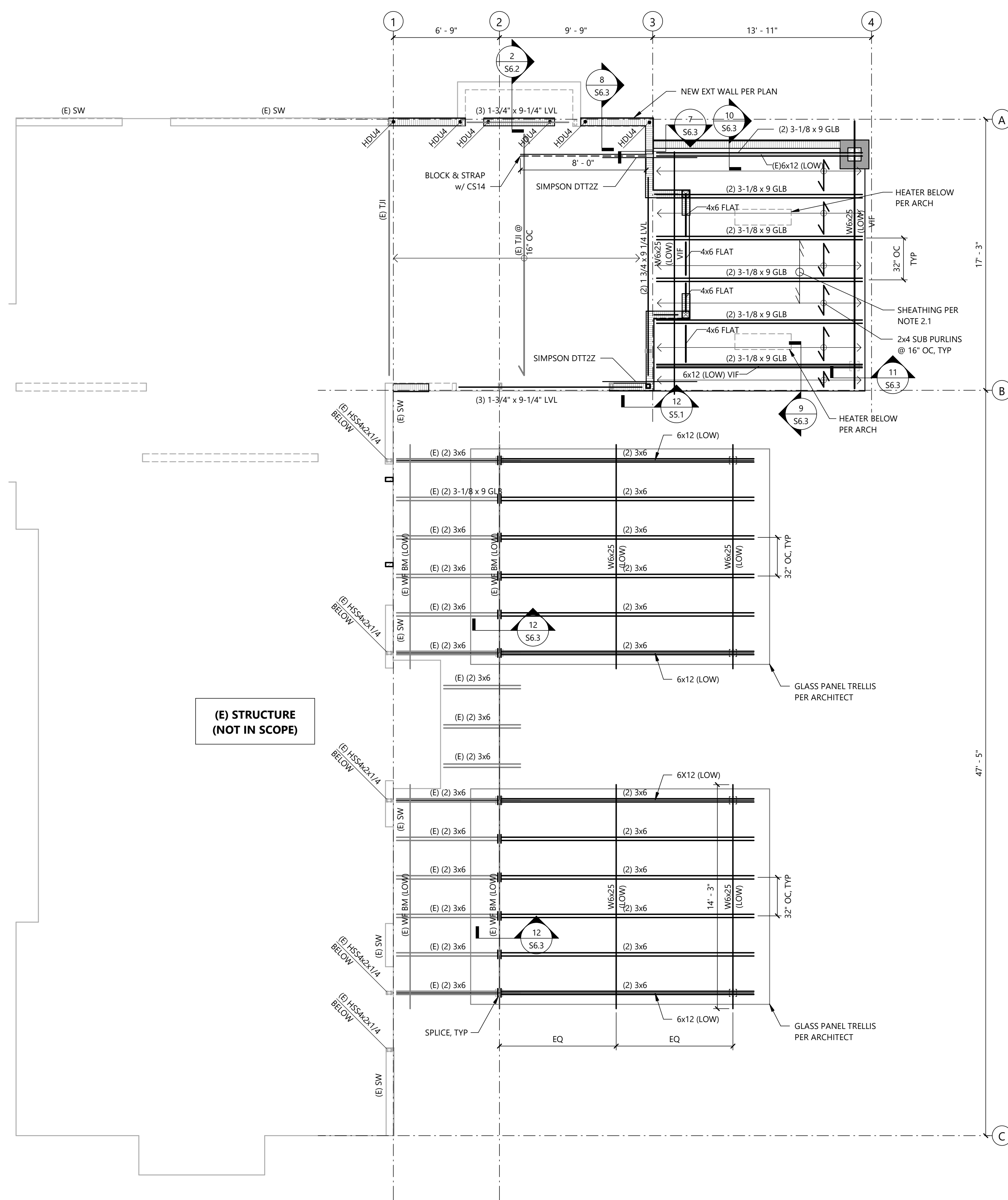
Sheet Title

MAIN LEVEL
FRAMING PLAN

Sheet Number

S2.2





FLOOR FRAMING PLAN NOTES

1. GENERAL

- ELEVATION AT TOP OF SHEATHING SHALL BE PER ARCH, UNLESS NOTED OTHERWISE.
- GRID LINES ARE TO FACE OF STUD AND CENTERLINE OF COLUMN. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
- EXISTING CONDITIONS ARE ASSUMED AND MUST BE VERIFIED BY THE CONTRACTOR. WHERE DISCOVERED CONDITIONS VARY FROM THOSE SHOWN ON PLANS, CONTRACTOR SHALL CONTACT THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.

2. FLOORS

- FLOOR SHALL BE 23/32" APA-RATED SHEATHING, (48/24) EXPOSURE 1, TONGUE & GROOVE, GLUED AND NAILED. WHERE BLOCKED DIAPHRAGM IS NOTED ON PLAN, USE 2x FLAT BLOCKING AND 'Z' CLIPS AT UNSUPPORTED PANEL EDGES.

NAIL SHEATHING AS FOLLOWS:

FLOOR BOUNDARY (BN)	10d @ 6"
PANEL EDGES (EN)	10d @ 6"
OTHER SUPPORTS, FIELD NAILING	10d @ 10"
BLOCKING, INTERIOR RIM JOISTS & STRUTS	10d @ 4"

NAILS SHALL BE DRIVEN FLUSH WITH THE FACE OF SHEATHING. GLUE SHALL CONFORM TO APA AFG-01.

- TYPICAL RIM JOISTS SHALL BE MINIMUM 1 1/2" LSL, UNO. REFER TO SHEAR WALL SCHEDULE FOR ADDITIONAL REQUIREMENTS AT RIMS.
- TYPICAL HEADER SHALL BE 4x10 DF NO. 2, UNLESS NOTED OTHERWISE.
- TYPICAL HANGERS SHALL BE SIMPSON JB OR LU, UNLESS NOTED OTHERWISE.

3. WALLS

- STRUCTURAL WALL STUDS AT THIS LEVEL SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

EXTERIOR WALLS	2x6 @ 16" OC
INTERIOR WALLS	2x6 @ 16" OC

SEE DETAIL SHEET S6.1 FOR TYPICAL WALL FRAMING REQUIREMENTS AND FOR TYPICAL SHEAR WALL REQUIREMENTS. FRAME ALL SHEAR WALL INTERSECTIONS PER TYPICAL DETAILS.

- USE (1) KING STUD AND (1) TRIMMER STUD AT EXTERIOR HEADERS AT THIS LEVEL, UNLESS NOTED OTHERWISE.
- ALL EXTERIOR WALLS SHALL BE CONSTRUCTED AS SW6 PER TYPICAL SHEAR WALL SCHEDULE, UNLESS NOTED OTHERWISE.

LEGEND

	STRUCTURAL WALL BELOW WITH HEADER (CONT WALL PLATES)
	STRUCTURAL WALL BELOW WITH FLUSH BEAM (BREAK WALL PLATES)
	STRUCTURAL WALL THIS LEVEL WITH CONT SILL PLATE AT OPENING
	STRUCTURAL WALL THIS LEVEL WITH BREAK IN SILL PLATE AT OPENING
	FLOOR JOIST & EXTENT
	BEAM PER PLAN OR HEADER PER NOTE 2.3
	JOIST HANGER PER NOTE 2.4
	SHEAR WALL PER S6.##
	SIMPSON STRAP TIE HOLDOWN USE (2) 2x MIN AT STRAPS; SEE S6.##
	NUMBER OF KINGS PLUS TRIMMERS, UP FROM THIS LEVEL
	INDICATES OVERFRAMING
	INDICATES BLOCKED DIAPHRAGM PER NOTE 2.1
	STRAP & BLOCKING PER PLAN
	STRAP PER PLAN



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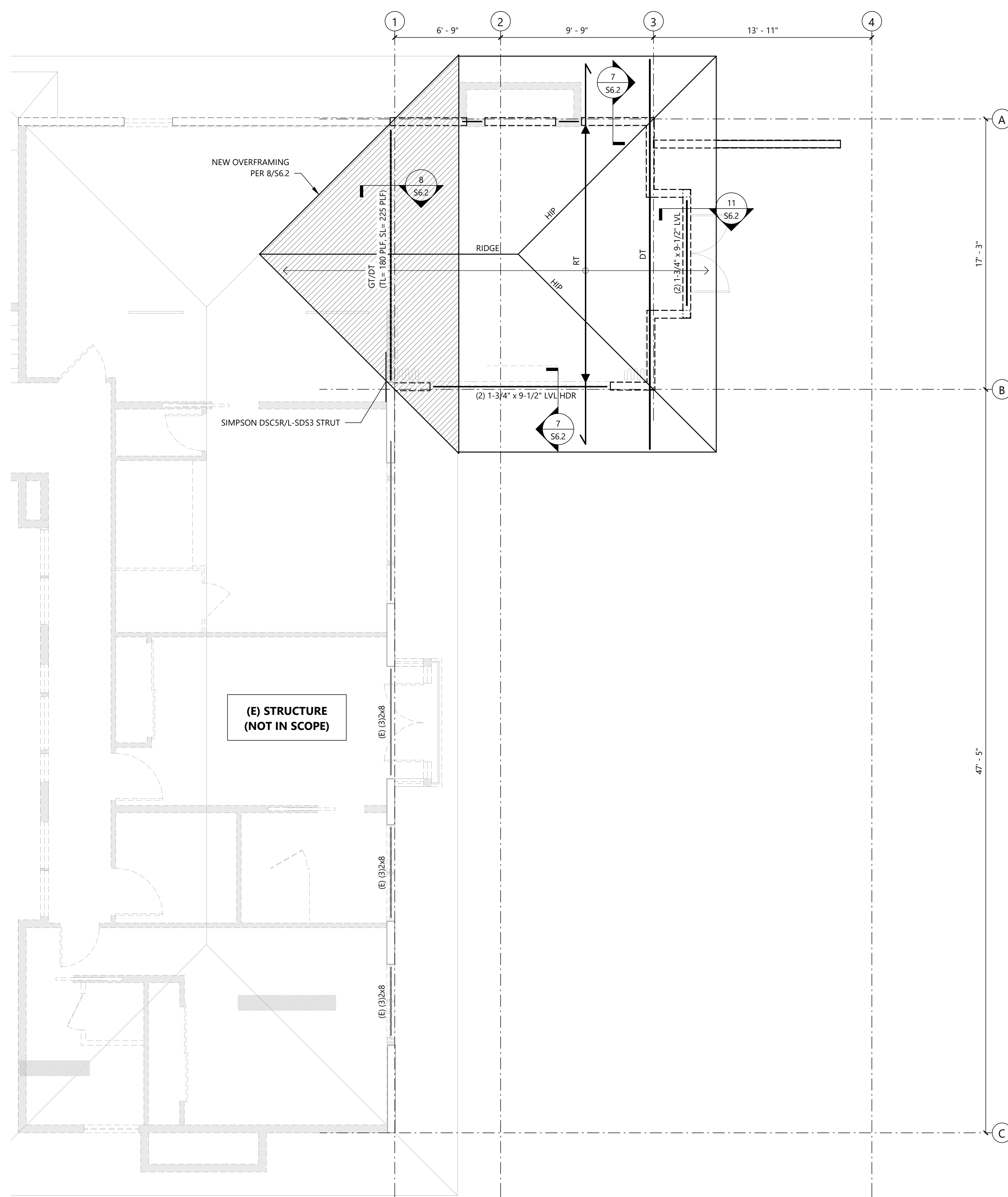
Sheet Title

UPPER LEVEL
FRAMING PLAN

Sheet Number

S2.3





ROOF FRAMING PLAN NOTES

1. GENERAL

- 1.1. ELEVATION AT TOP OF SHEATHING SHALL BE XX'-X", UNLESS NOTED OTHERWISE.
- 1.2. GRID LINES ARE TO FACE OF STUD AND CENTERLINE OF COLUMN. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
- 1.3. EXISTING CONDITIONS ARE ASSUMED AND MUST BE VERIFIED BY THE CONTRACTOR. WHERE DISCOVERED CONDITIONS VARY FROM THOSE SHOWN ON PLANS, CONTRACTOR SHALL CONTACT THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.

2. ROOF

- 2.1. ROOF SHEATHING SHALL BE 15/32" APA RATED SHEATHING (32/16), EXPOSURE 1. SHEATHING IS SUPPORTED BY 4x T&G TIMBER DECKING. NAIL SHEATHING PANELS AS FOLLOWS:

ROOF BOUNDARY (BN)	10d @ 6"
PANEL EDGES (EN)	10d @ 6"
OTHER SUPPORTS, FIELD NAILING (FN)	10d @ 12"
BLOCKING, INTERIOR RIM JOISTS AND STRUTS	10d @ 6"

NAILS SHALL BE FLUSH WITH THE FACE OF SHEATHING.
- 2.2. TYPICAL RIM JOISTS SHALL BE MINIMUM 1 1/2" LSL, UNO. REFER TO SHEAR WALL SCHEDULE FOR ADDITIONAL REQUIREMENTS AT RIMS.
- 2.3. TYPICAL HEADER SHALL BE 4x10 DF NO. 2, UNLESS NOTED OTHERWISE.
- 2.4. TYPICAL HANGERS SHALL BE SIMPSON IUS OR ITS, UNLESS NOTED OTHERWISE.

LEGEND

- STRUCTURAL WALL BELOW WITH HEADER (CONT WALL PLATES)
- STRUCTURAL WALL BELOW WITH FLUSH BEAM (BREAK WALL PLATES)
- INDICATES PRE-ENGINEERED ROOF TRUSSES AT 24" OC; SEE GENERAL STRUCTURAL NOTES FOR CRITERIA.
(◄) DENOTES BEARING POINT BELOW.
- RT** INDICATES PRE-ENGINEERED ROOF TRUSSES AT 24" OC
- GT** INDICATES PRE-ENGINEERED GIRDER TRUSS
- DT** INDICATES PRE-ENGINEERED DRAG TRUSS. SEE DETAIL 4/S6.2
- INDICATES OVERFRAMING
- INDICATES BLOCKED DIAPHRAGM PER NOTE 2.1



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Sheet Title

ROOF FRAMING
PLAN

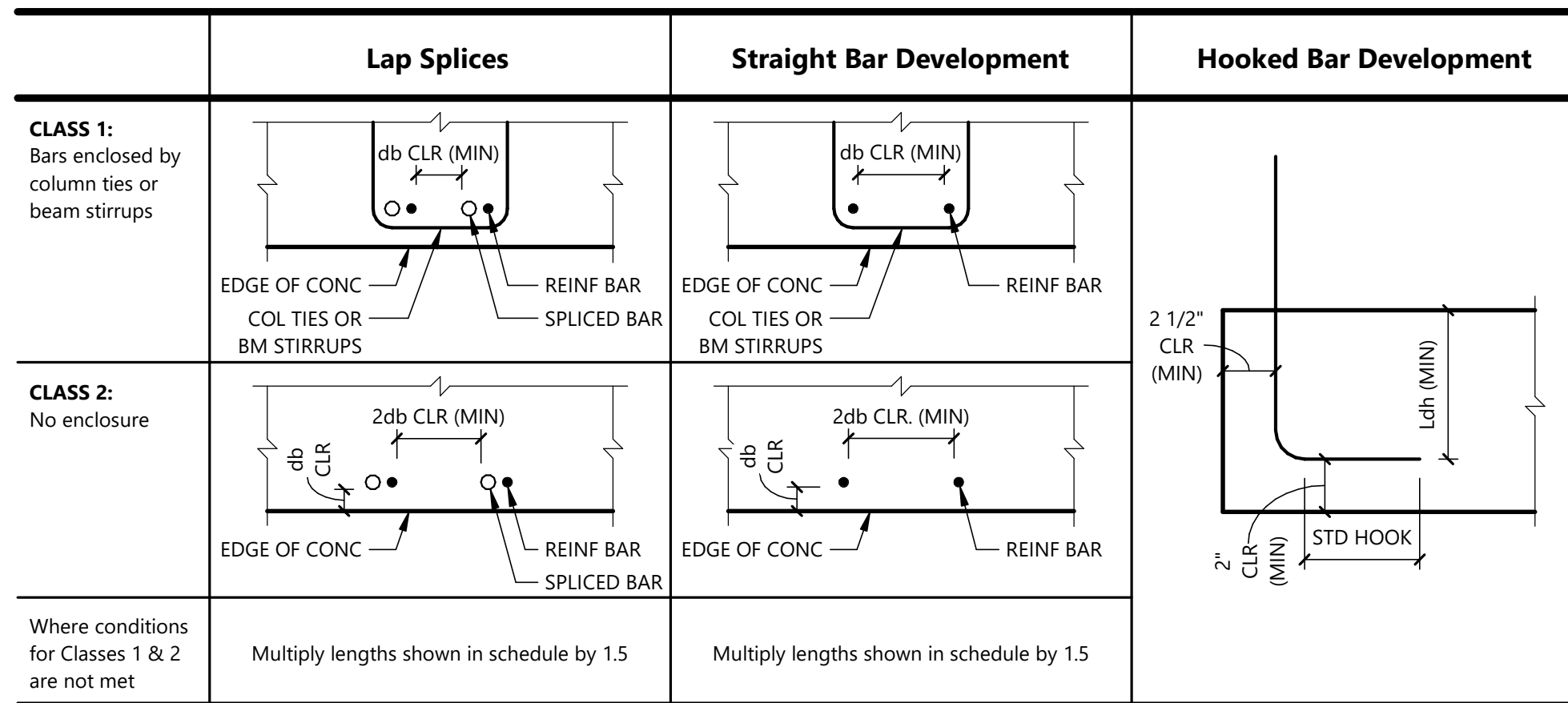
Sheet Number

S2.4



REINFORCING BAR LAP SPLICE & DEVELOPMENT LENGTH DIAGRAMS

The following conditions must be met in order to use the Reinforcing Bar Lap Splice & Development Length Tables



Notes:

- All bars shall be developed & all splices lapped per ACE 318 for tension, uno. Table may be used where conditions meet criteria noted in diagrams.
- Tables are applicable for normal weight concrete, only.
- Top bars are horizontal bars with more than 12" depth of concrete cast below them. (wall horizontal reinforcement is exempt).
- Where bars of different size are lap spliced, splice length shall be the larger of:
 - Developed length of larger bar
 - Splice length of smaller bar
- Where minimum straight bar development length cannot be achieved, use with standard hook.
- Refer to concrete cover table for minimum concrete cover requirements.

2 Reinforcing Bar Lap Splice & Development Length Tables

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

REINFORCING BAR LAP SPLICE & DEVELOPMENT LENGTH TABLE

f'c = 3,000 psi

Grade 60 Reinforcing

Bar Size	Min Lap Splice Lengths (Ls)		Min Straight Bar Development Lengths (Ld)		Min Hooked Bar Embedment Lengths (Ldh)
	Top Bars	Other Bars	Top Bars	Other Bars	
#3	28"	22"	22"	17"	9"
#4	38"	29"	29"	22"	11"
#5	47"	36"	36"	28"	14"
#6	56"	43"	43"	33"	17"
#7	81"	63"	63"	48"	20"
#8	93"	72"	72"	55"	22"
#9	105"	81"	81"	62"	25"
#10	118"	91"	91"	70"	28"
#11	131"	101"	101"	78"	31"

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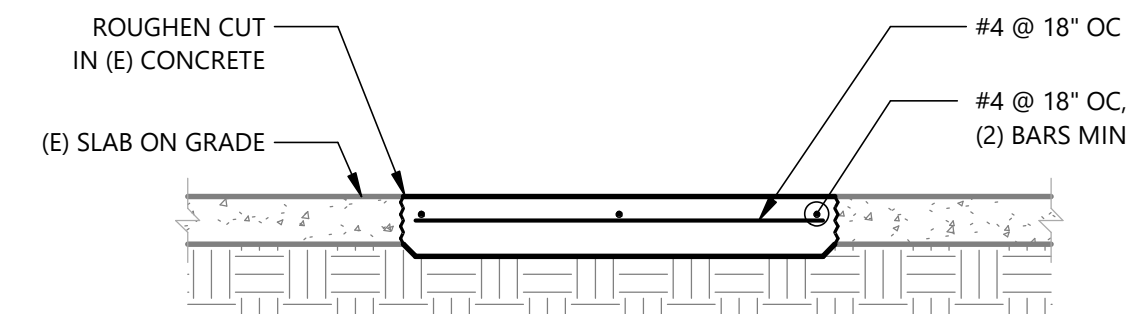
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Sheet Title

STRUCTURAL
CONCRETE
DETAILS

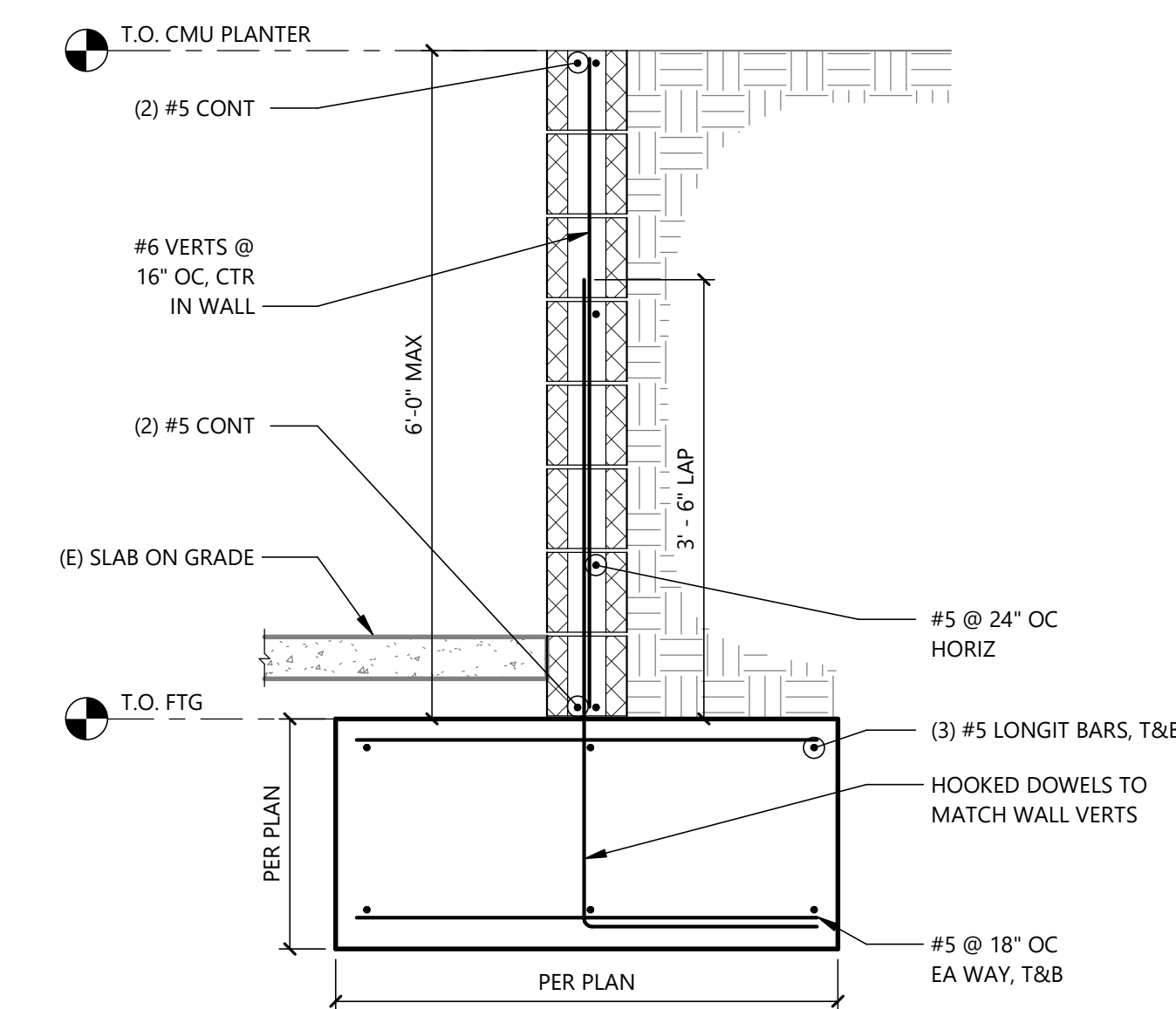
Sheet Number

S3.1



7 Typical Patching at Slab on Grade

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



11 Typical CMU Planter Wall

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

CONCRETE COVER FOR REINFORCING STEEL

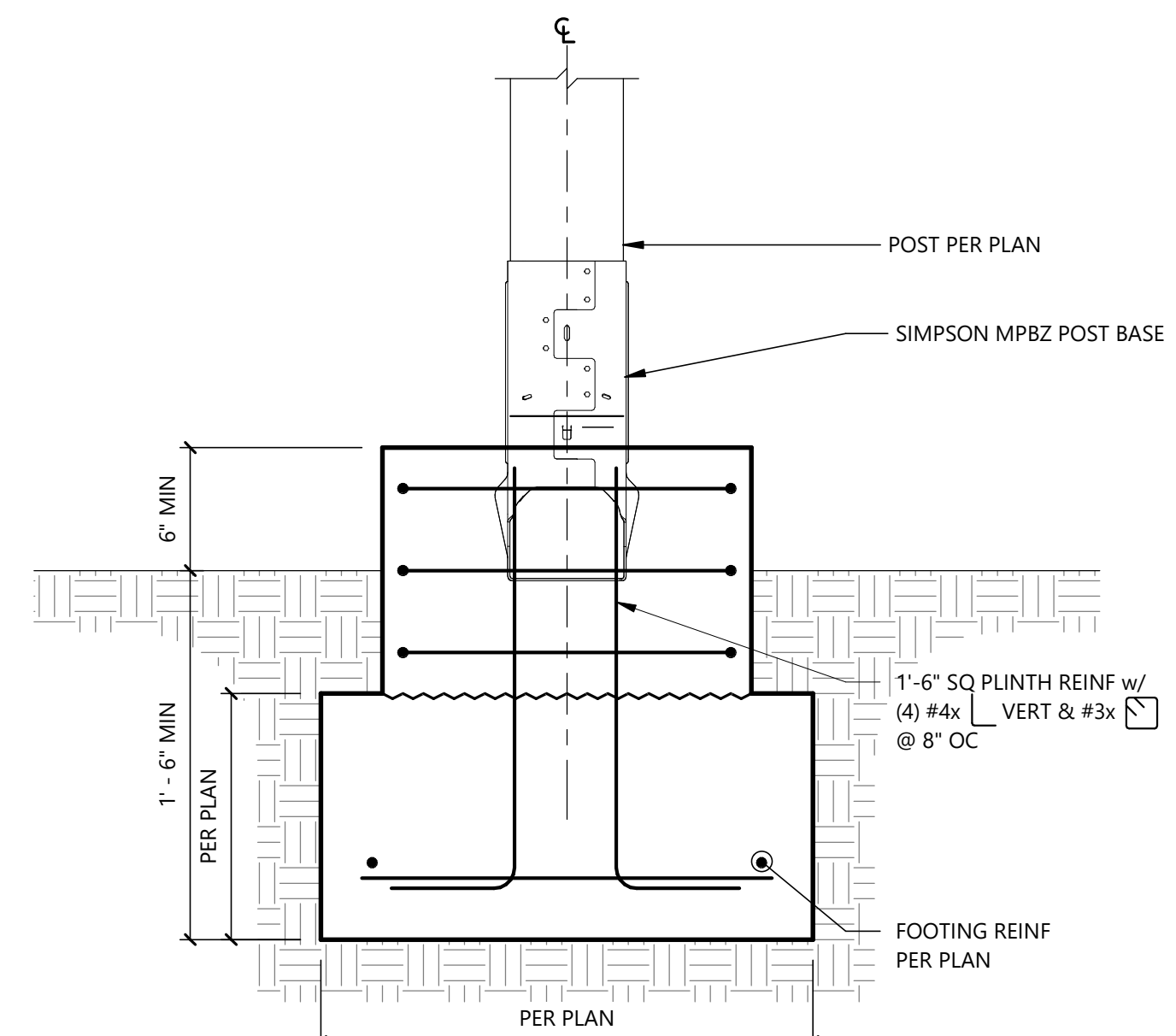
Reinforcing Bar Location	Minimum Concrete Cover
Unformed surfaces cast against and permanently exposed to earth	3"
Formed surfaces exposed to earth or weather (#6 bars and larger)	2"
Formed surfaces exposed to earth or weather (#5 bars and smaller)	1 1/2"
Columns and beams w/ bars enclosed in stirrups, ties or spiral reinforcement	1 1/2"
Slabs, joists and interior faces of walls (#11 bars and smaller)	3/4"
2-hour and 3-hour slabs	(Refer to plan notes)
Clear spacing between longitudinal bars in columns and boundary elements	1 1/2" or 1.5db
Clear spacing between parallel bars in a layer	1" or db
Clear spacing between (2) or more parallel layers	1"

Notes:

- Where a thickness of cover required for fire protection is greater than that specified in this table, the greater thickness shall be used.
- Where two values are shown, the greater shall be used.

8 Concrete Cover for Reinforcing Steel

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



12 Typical Post Footing with Square Plinth

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

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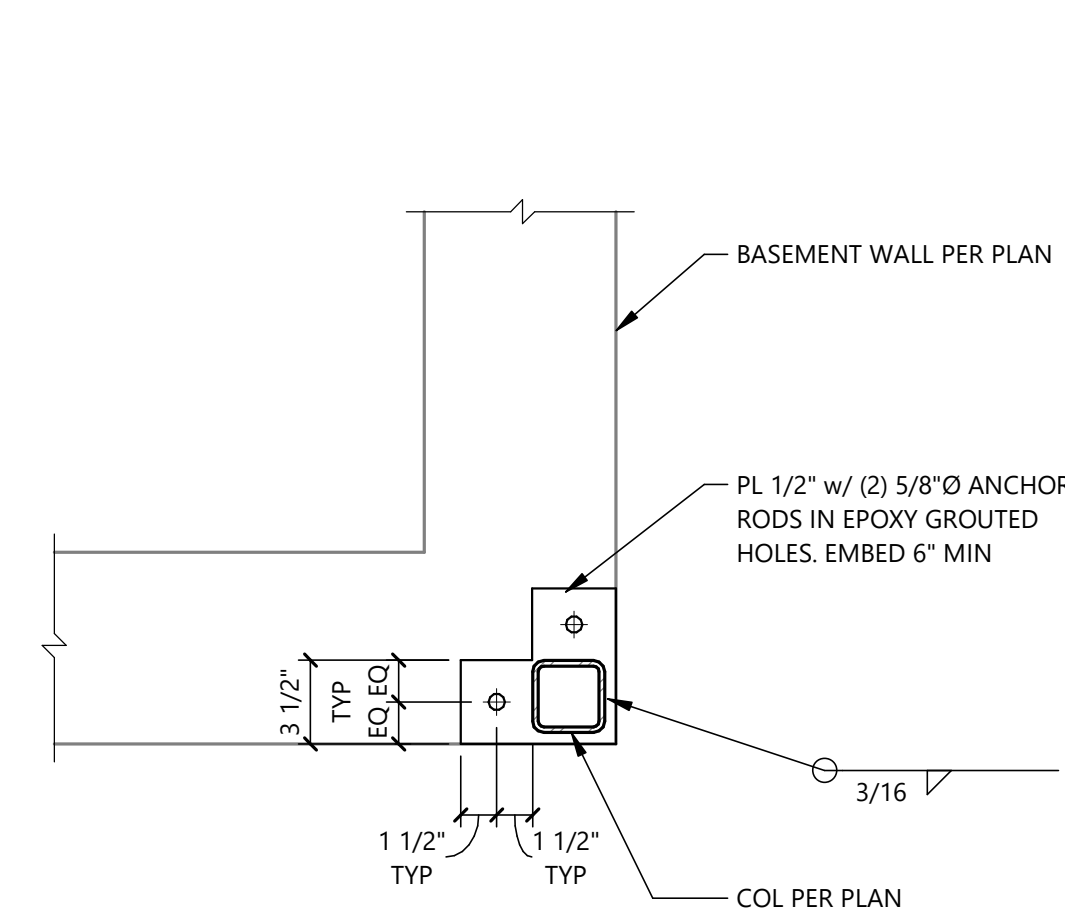
Department Approval

Sheet Title

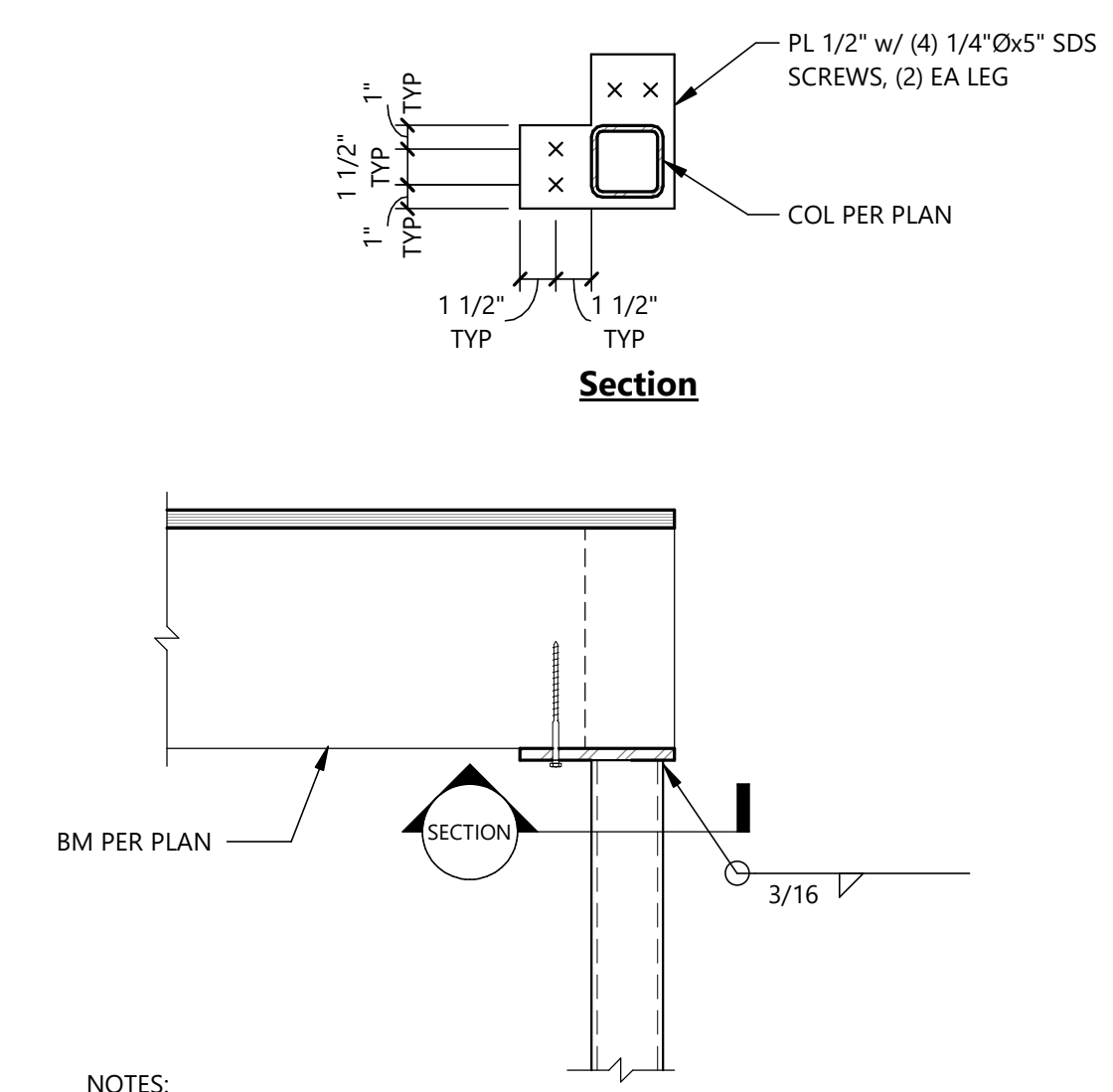
**STRUCTURAL
STEEL DETAILS**

Sheet Number

S5.1



11 Column Base Detail
Scale: 1 1/2" = 1'-0"



12 HSS Connection at Top of Col
Scale: 1 1/2" = 1'-0"

Shear Transfer
"D" Per Sched

GENERAL CONTRACTOR TO VERIFY RIM PLACEMENT WITH JOIST HANGER LAYOUT

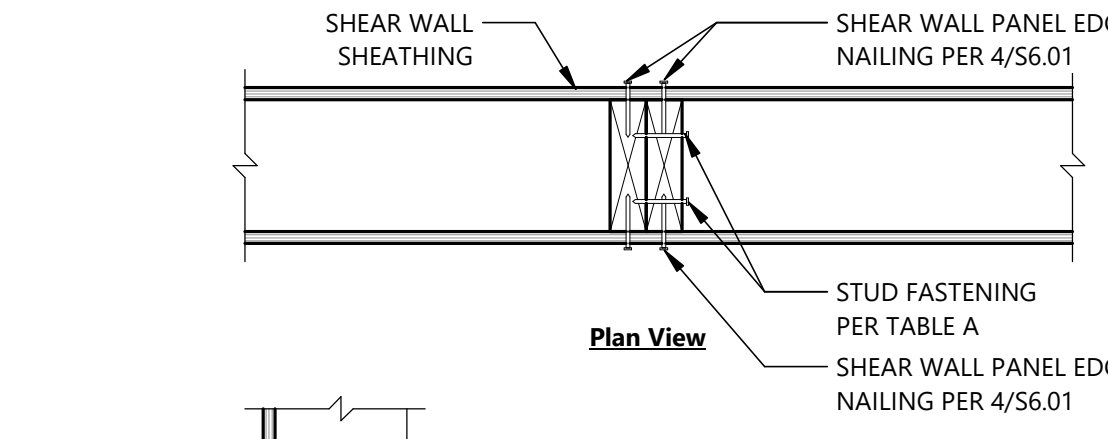
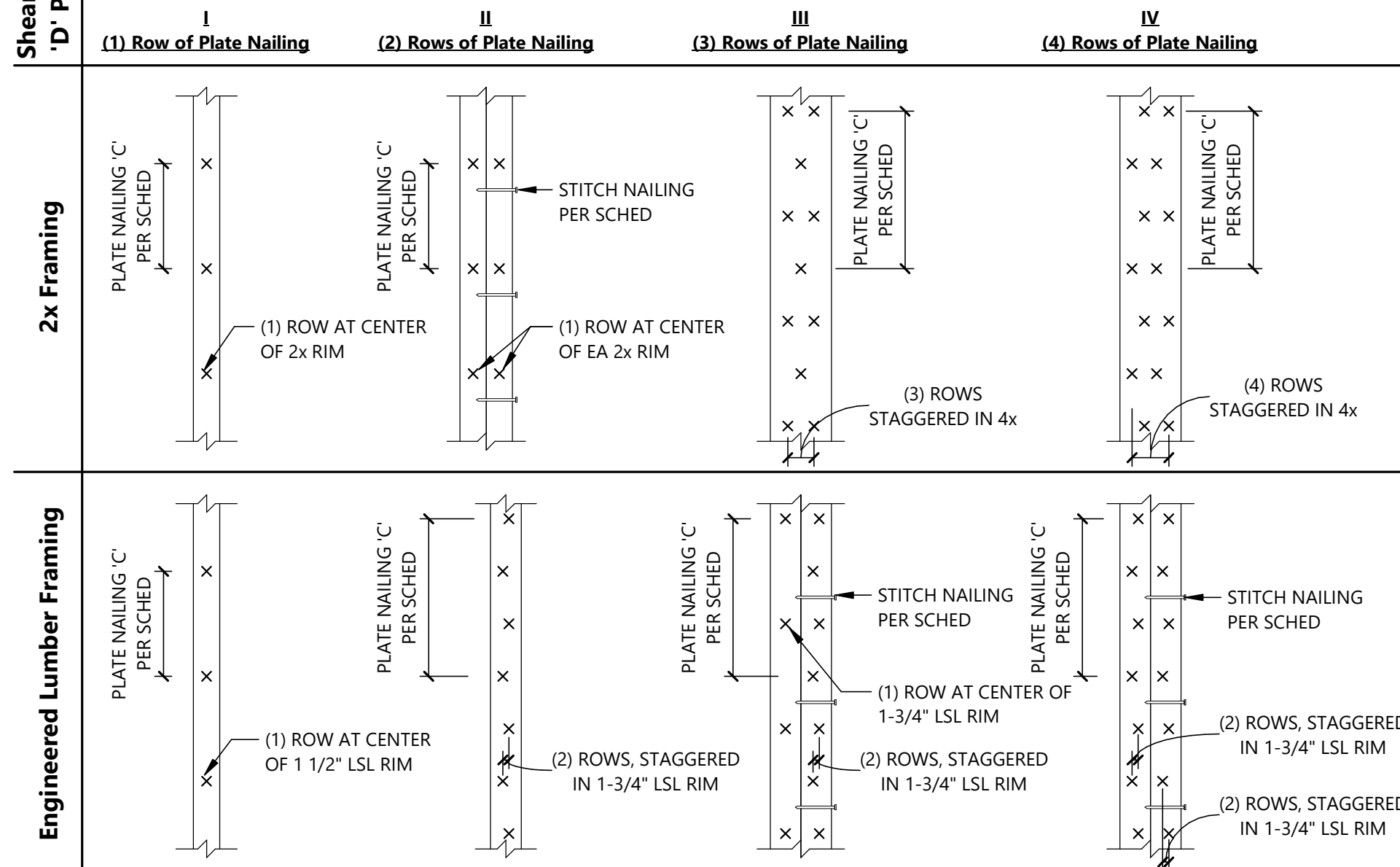


TABLE A

Shear Wall Mark	Stud Fastening
SW4	(2) Rows 16d @ 4" OC
SW3	(3) Rows 16d @ 4 1/2" OC
SW2	(2) Rows 1/4"Ø x 3" SDS @ 4 1/2" OC
SW3-2	(2) Rows 1/4"Ø x 3" SDS @ 3" OC
SW2-2	N/A

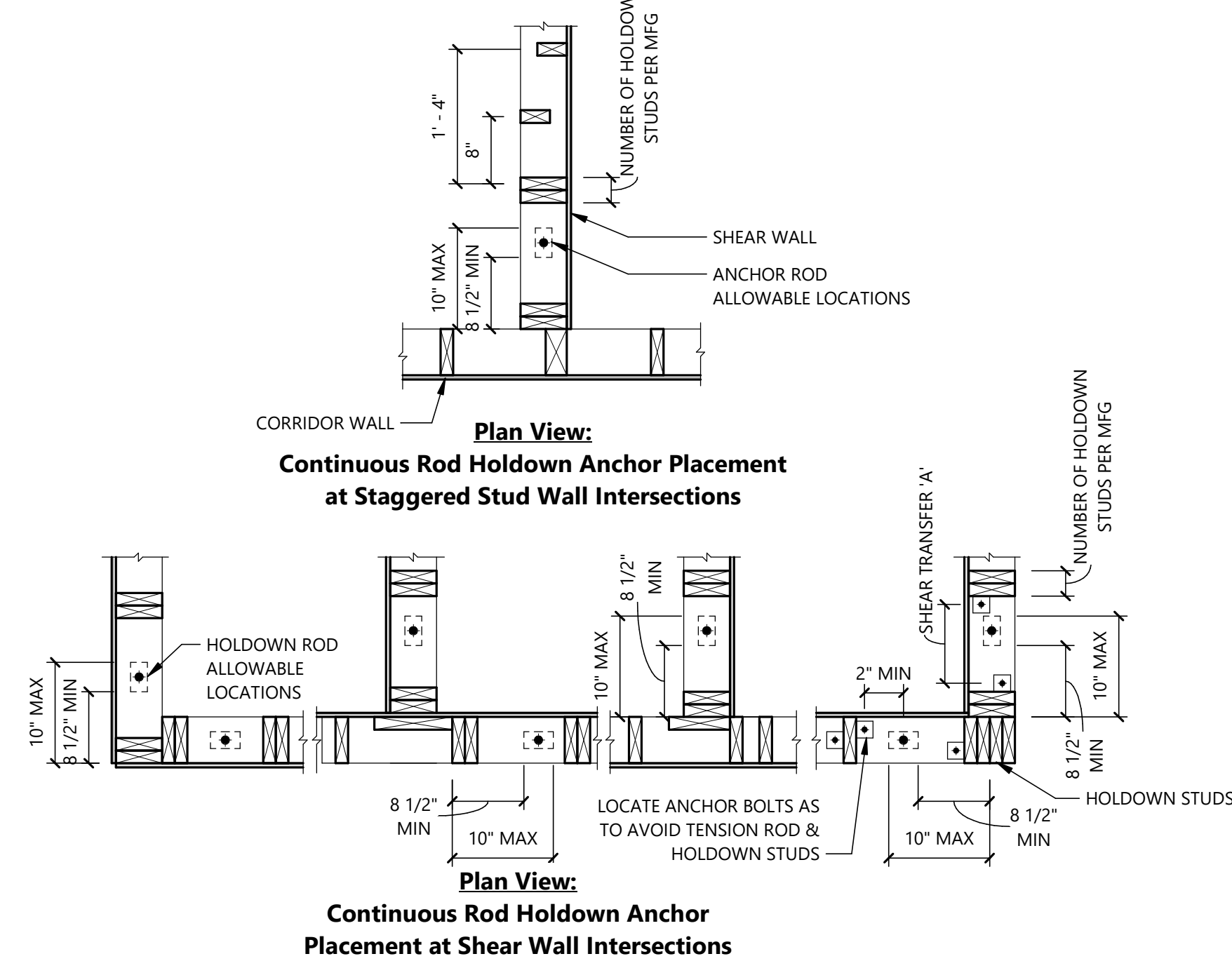
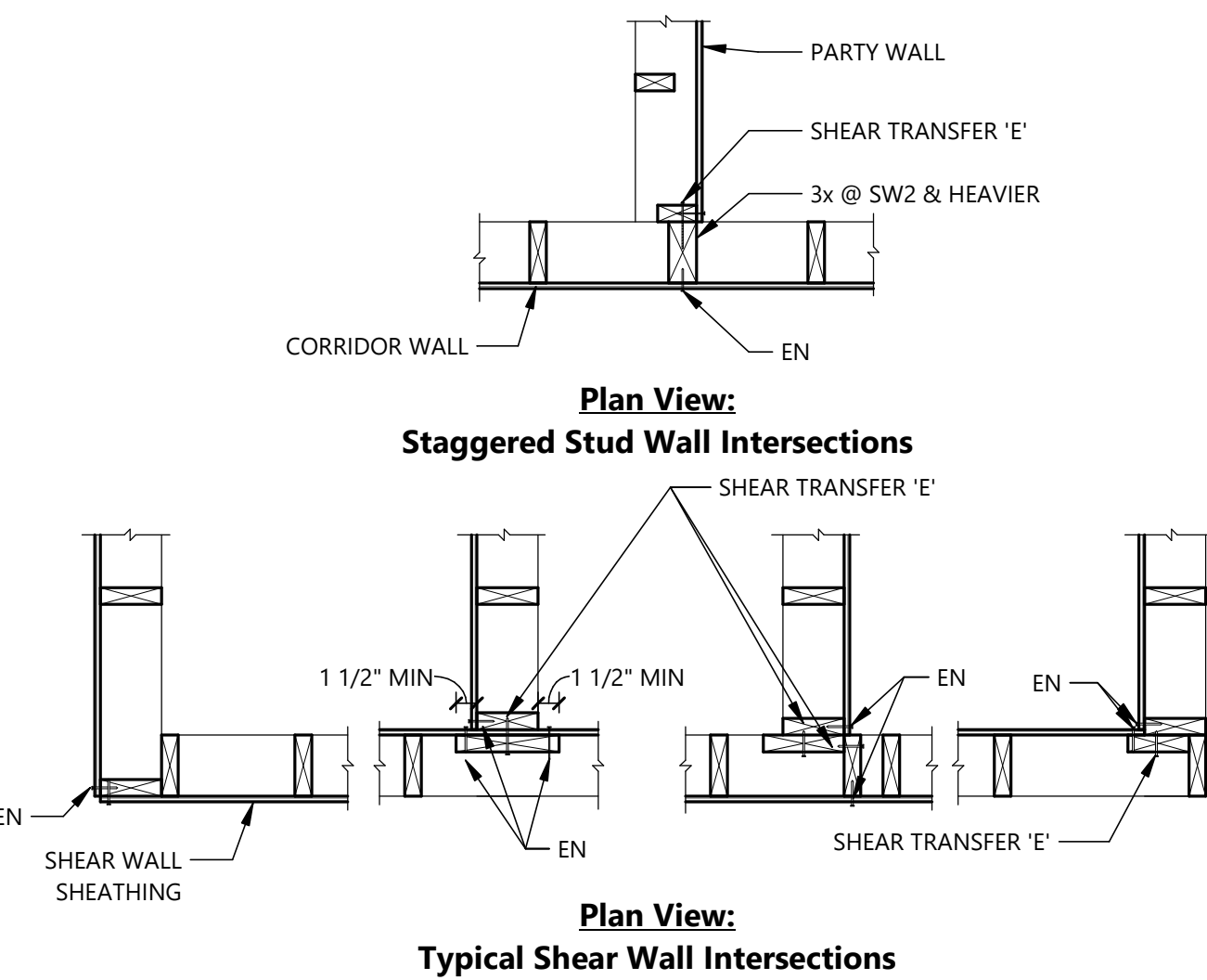
Note:
1. 3" for SDS screws, 1-1/2" for 16d nails.

1 Typical Shear Wall Schedule - Plate Nailing Details

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

2 Alternative Built-up 2X Option at Abutting Panel Edge

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



5 Holddown Anchor Placement at Shear Wall Intersections

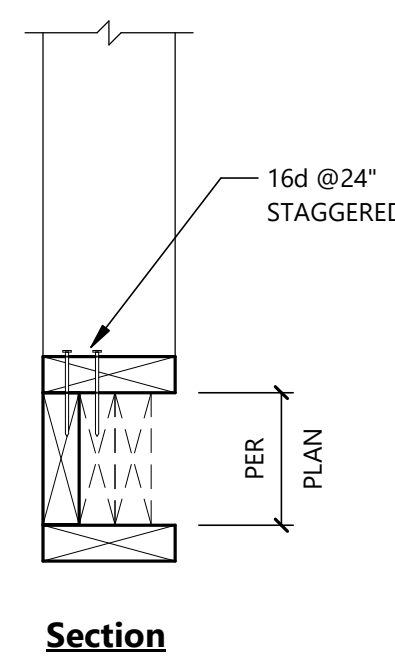
Scale: 3/4" = 1'-0"

ROUGH WINDOW SILL

Horiz Rough Opening	Number of Sills Req'd	End Attachment	Reference
0'-0" to 6'-0"	1	(2) 16d end nails	11/S6.1
> 6'-0"	2	(2) 16d end nails + A35 each end @ each sill	11/S6.1

HEADER END NAILING

Nominal Depth	End Attachment
4	(4) 16d
6	(6) 16d
8	(8) 16d
10	(10) 16d
12	(12) 16d
14	(14) 16d
16	(16) 16d
18	(18) 16d



9 Header End Nailing

Scale: NTS

(MINIMUM FASTENING SCHEDULE (UNO) PER IBC 2015, TABLE 2304.10.01)

No.	Connection	Nailing, Location UNO
1	Blocking between joist/rafter or trusses to top plate or other framing above	(3) 8d, toenail each end
2	Blocking between joist/rafter or trusses not at the wall top plate, to rafter or truss	(2) 8d, toenail each end
3	Flat blocking to truss and web filler	16d face nail
4	Joists to top plate or girder	(3) 8d, toenail
5	Ceiling joist not attached to parallel rafter, laps over partitions (no thrust)	(3) 16d
6	Collar tie to joist/rafter	(3) 10d
7	Roof truss to top plate	(3) 10d, toenail
8	Roof joist/rafter to ridge valley or hip rafters; or roof rafter to 2" ridge beam	(2) 16d, end nail
9	Stud to stud (not at shear walls)	16d @ 24" O.C., face nail
10	Continuous header to stud	(4) 8d, toenail
11	Top plate to top plate, at end joints	(8) 16d, Each side of end joint, face nail (minimum 24" lap splice length each side of end joint)
12	Sill plate to joist, rim joist or blocking (not at braced wall panels)	16d @ 16" OC, face nail
13	Sill plate to joist, rim joist or blocking at braced wall panels	(3) 16d @ 16" OC, face nail
14	Stud to sill plate	(4) 8d, toenail OR (2) 16d, end nail*
15	Top plate to stud	(2) 16d, end nail
16	Top plates, laps at corners and intersections	(2) 16d, face nail
17	1" brace to each stud and plate	(2) 8d, face nail
18	1" x 6" sheathing or less to each bearing	(2) 8d, face nail
19	1" x 8" and wider sheathing to each bearing	(3) 8d, face nail
20	Joist to sill, top plate or girder	(3) 8d, toenail
21	Rim joist, or blocking to top plate, sill or other framing below	8d @ 6" OC, toenail
22	1" x 6" subfloor or less to each joist	(2) 8d, face nail
23	2" subfloor to joist or girder	(2) 16d, blind and face nail
24	2" planks (plank & beam - floor & roof)	(2) 16d, each bearing, face nail
25	Built-up girders and beams, 2" lumber layers	20d @ 32" OC, face nail at top and bottom staggered on opposite sides and (2) 20d at ends of each splice
26	Ledger strip supporting joists or rafters	(3) 16d, each joist or rafter, face nail
27	Joist to rim joist	(3) 16d, end nail
28	Bridging or blocking to joist	(2) 8d, each end, toenail

*Use (4) 16d end nail studs to top and sill plates at 2x10 studs

SHEAR WALL SCHEDULE (DOUG FIR FRAMING)

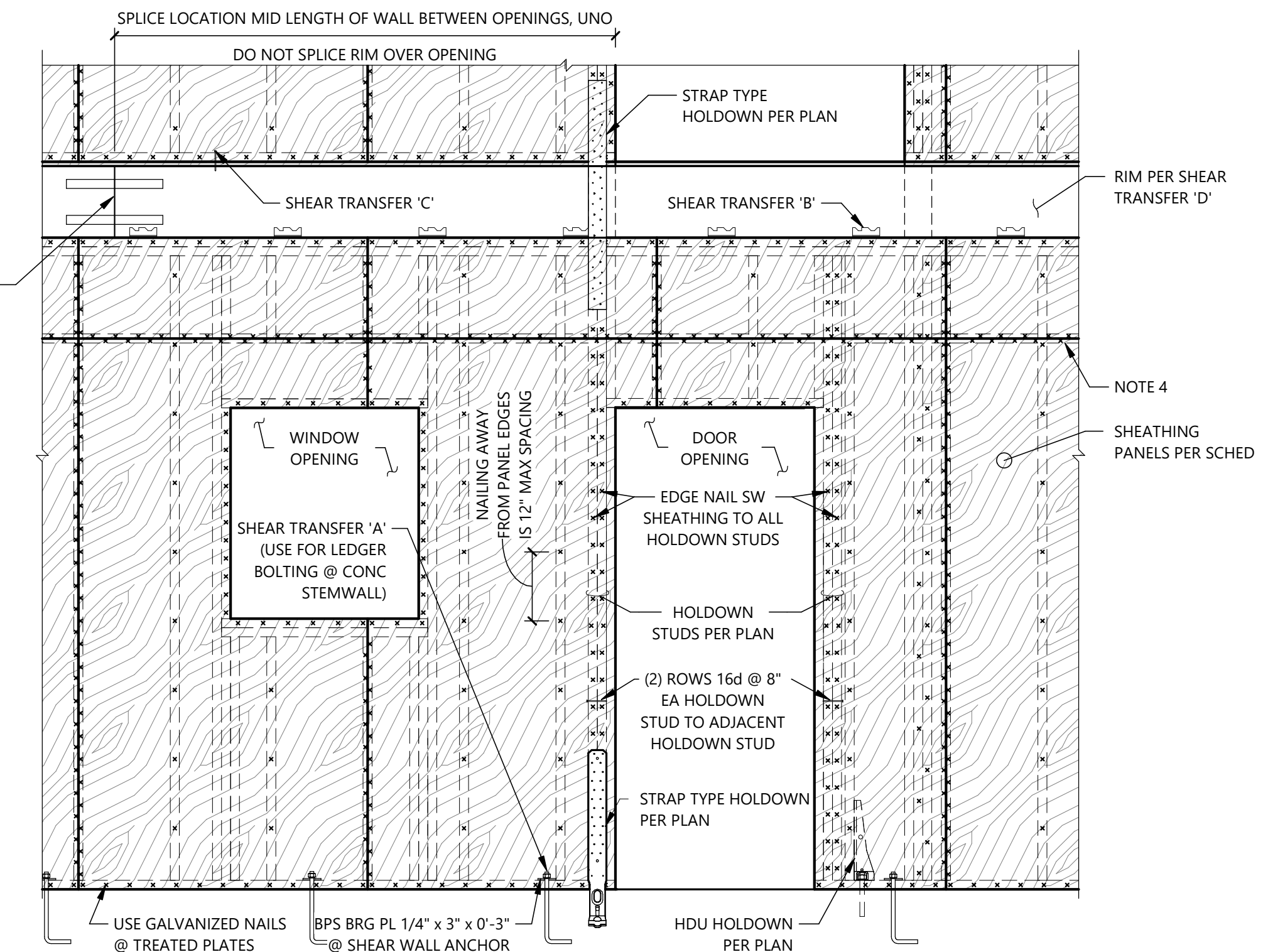
Mark	Sheathing (15/32" Plywood)	Nailing		Framing			Shear Transfer			Capacity (ASD)			
		(EN) Edge	Field	Min Stud & Blkg at Panel Edges	Sill Plate	Top Plates	(A) Sill Pl to Concrete	(B) Rim/Joist/Blkg to Top Pl	(C) Sill Pl to Rim/Joist/Blkg (See 1/S6.1)	(D) Rim Below Sill Pl (See 1/S6.1)	(E) Shearwall Intersections	Seismic	Wind
SW6	(1) Side	10d @ 6"	10d @ 12"	2x	2x	(2)2x	5/8"Ø Anchor Bolt @ 41"	A35 @ 26" or LTP4 @ 20"	16d @ 4" or 1/4"Ø x 6" SDS screw @ 14"	I	16d @ 4" or 1/4"Ø x 6" SDS screw @ 13"	310 pif	435 pif
SW4	(1) Side	10d @ 4"	10d @ 12"	3x	2x	(2)2x	5/8"Ø Anchor Bolt @ 27"	A35 @ 18" or LTP4 @ 13"	(2) Rows 16d @ 6" or 1/4"Ø x 6" SDS screw @ 9"	II or I	(2) ROWS 16d @ 6" or 1/4"Ø x 6" SDS screw @ 8"	460 pif	645 pif
SW3	(1) Side	10d @ 3"	10d @ 12"	3x	2x	(2)2x	5/8"Ø Anchor Bolt @ 21"	A35 @ 13" or LTP4 @ 10"	(2) Rows 16d @ 5" or 1/4"Ø x 6" SDS screw @ 7"	II or I	(2) ROWS 16d @ 5" or 1/4"Ø x 6" SDS screw @ 6"	600 pif	840 pif
SW2	(1) Side	10d @ 2"	10d @ 12"	3x	2x	(2)2x	5/8"Ø Anchor Bolt @ 16"	A35 @ 10" or LTP4 @ 7"	(3) Rows 16d @ 6" or (2) Rows 1/4"Ø x 6" SDS screws @ 10"	III or II	1/4"Ø x 6" SDS screw @ 5"	770 pif	1078 pif
SW4-2	(2) Sides	10d @ 4"	10d @ 12"	3x	3x	(2)2x	5/8"Ø Anchor Bolt @ 15"	A35 + LTP4 @ 13"	(3) Rows 16d @ 5" or (2) Rows 1/4"Ø x 6" SDS screws @ 9"	III or II	1/4"Ø x 6" SDS screw @ 4"	920 pif	1288 pif
SW3-2	(2) Sides	10d @ 3"	10d @ 12"	3x	3x	(2)2x	5/8"Ø Anchor Bolt @ 15"	A35 + LTP4 @ 10"	(4) Rows 16d @ 5" or (2) Rows 1/4"Ø x 6" SDS screws @ 7"	IV or II	1/4"Ø x 6" SDS screw @ 3"	1200 pif	1680 pif
SW2-2	(2) Sides	10d @ 2"	10d @ 12"	3x	3x	(2)2x	5/8"Ø Anchor Bolt @ 12"	A35 + LTP4 @ 8"	(4) Rows 16d @ 4" or (3) Rows 1/4"Ø x 6" SDS screws @ 8"	IV or III	1/4"Ø x 6" SDS screw @ 2"	1540 pif	2155 pif

SHEAR WALL SCHEDULE NOTES:

- In addition to framing requirements of 11/S6.11, provide framing at shear walls as indicated.
- See schedule for sheathing and nailing requirements. Lumber grade as indicated or better. Stagger panel joint each side of wall where sheathing is required both sides of wall.
- All framing members receiving edge nailing from abutting panel edges shall not be less than sizes indicated. In lieu of 3x studs, b2/S6.1 studs shown in 2/S6.01 may be substituted.
- Block all panel edges.
- Nail sizes per nail size table. Drive all nails flush with face of sheathing. Tolerance +1/16" to -. Stagger nailing where necessary to prevent splitting of lumber.
- Plates on concrete shall be treated. See general notes.
- Connect sheathing & studs at shear wall intersections as indicated.
- Where only one holdown is specified, locate on open-side of holdown studs. See wall elevation.
- The plans and sections shown here schematically demonstrate the typical connection designed by the Engineer of Record. Alternate connections must be approved in writing by the Engineer prior to construction.

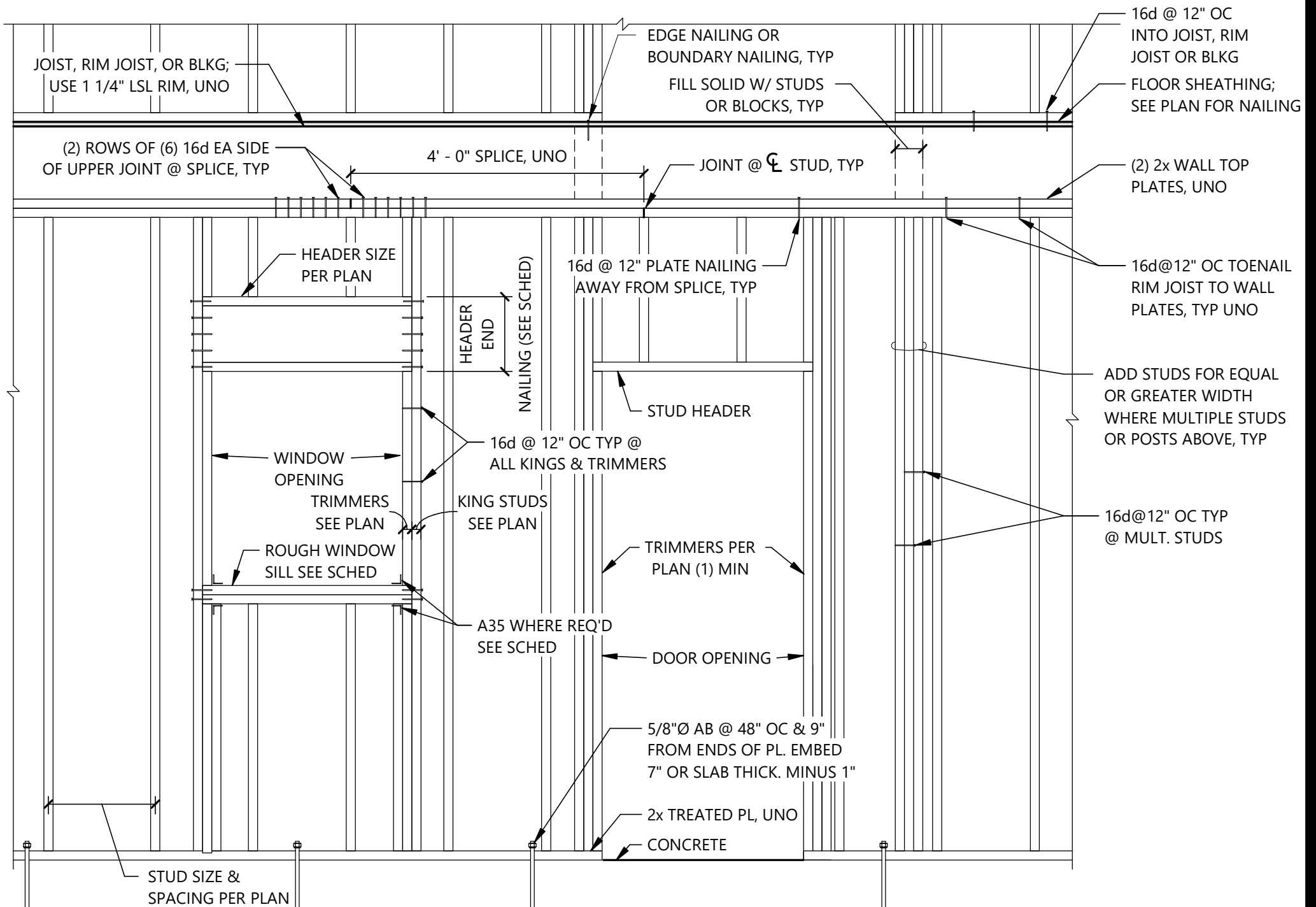
TYPICAL NAIL LENGTH TABLE

Nail Size	Nail Diameter	Typical Nail Length (UNO)
6d Common	0.113"Ø	2"
8d Common	0.131"Ø	2 1/2"
10d Common	0.148"Ø	2 1/4"
16d Sinker	0.148"Ø	3 1/4"



7 Shear Wall Framing w/ Holdowns

Scale: NTS



11 Typical Wall Framing

Scale: NTS



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Engineer's Stamp



Project Title

HARRIS REMODEL

1640 72nd Ave SE
Mercer Island, WA 98040

Project Information

Project No. 21-127-01

Checked By Checker

Issue

Permit Set 10/01/2021

Department Approval

Sheet Title

STRUCTURAL WOOD DETAILS

Sheet Number

S6.1

Engineer's Stamp



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Project Information

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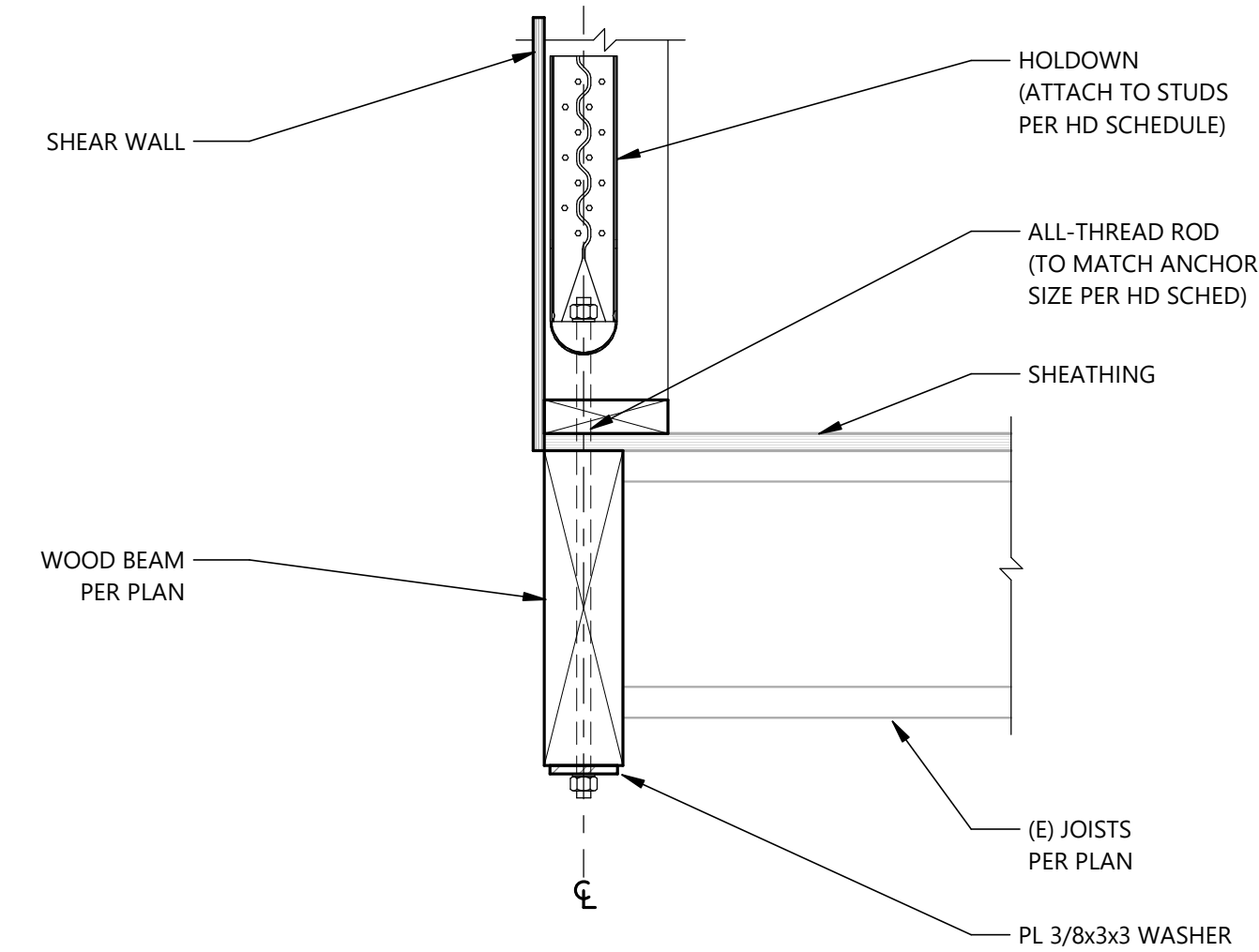
Department Approval

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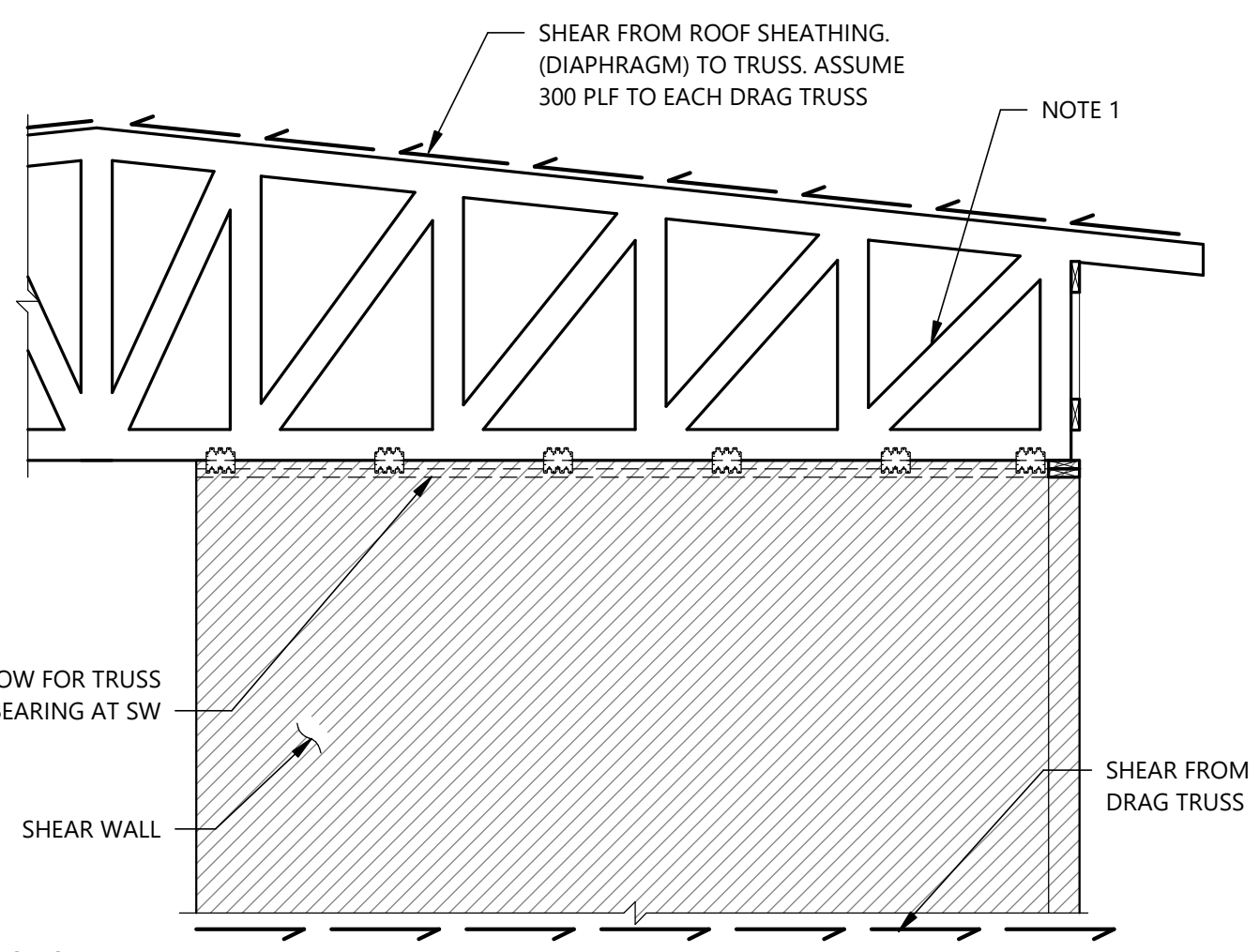
S6.2



HOLDOWN SCHEDULE

Mark	Framing Attachment		Anchorage		
	M	Fasteners (SDS 1/4 x 2 1/2)	D	Anchor Type	Embed
HDU2	1 3/4"	6	4 1/4"	5/8"Ø	1'-6"
HDU4	1 3/4"	10	4 1/4"	5/8"Ø	1'-6"
HDU5	1 3/4"	14	4 1/4"	5/8"Ø	1'-6"
HDU8	1 3/4"	20	4 1/4"	7/8"Ø	1'-6"
HDU11	1 3/4"	30	4 1/4"	1"Ø	1'-6"

- NOTES:
- INSTALL ALL HOLDOWNS PER MANUFACTURER'S INSTRUCTIONS.
 - PLACEMENT OF ALL ANCHORS IS BASED ON CAST-IN-PLACE INSTALLATION, UNO, POST-INSTALLED ANCHORS SHALL NOT BE INSTALLED WITHOUT PRIOR APPROVAL OF ENGINEER OF RECORD.
 - "M" INDICATES MINIMUM DEPTH OF WOOD FRAMING MEMBER ATTACHED TO HOLDOWN. ALL FRAMING MEMBERS SHALL BE DOUG-FIR, UNO.
 - "D" INDICATES MINIMUM DISTANCE FROM END OF CONCRETE WALL/FOOTING AT CORNER AND WALL END CONDITIONS. REFER TO ELEVATION AND SECTION FOR PLACEMENT DETAILS. UNLESS NOTED OTHERWISE, THE DISTANCE FROM ANY ANCHOR TO THE END OF CONCRETE WALL/FOOTING SHALL BE NO LESS THAN TWICE THE EMBEDMENT DEPTH NOTED IN THE SCHEDULE.

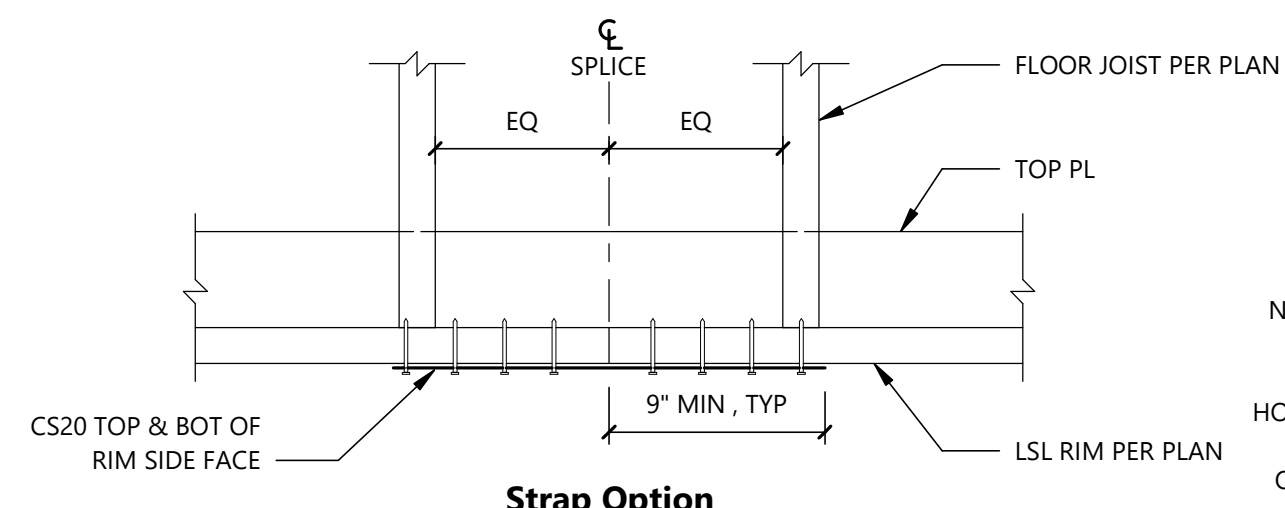


- NOTES:
- DESIGN EACH SHEAR TRUSS TO TRANSFER 300 PLF HORIZONTAL FORCE BETWEEN TOP & BOTTOM CHORDS.

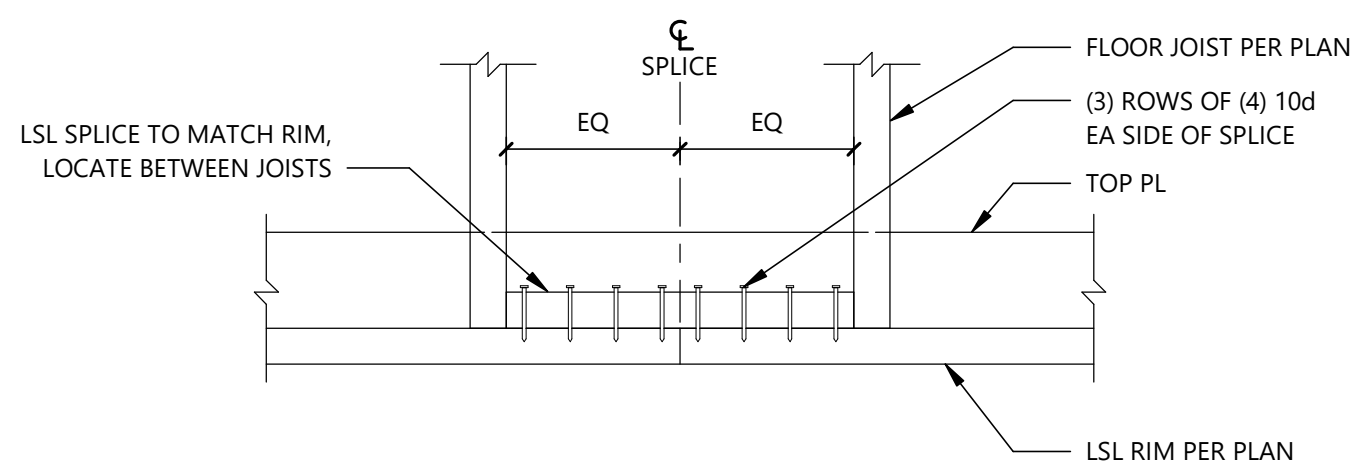
2 Typical Holdown to Wood Beam
Scale: 1 1/2" = 1'-0"

3 Typical Holdown Schedule
Scale: 3/4" = 1'-0"

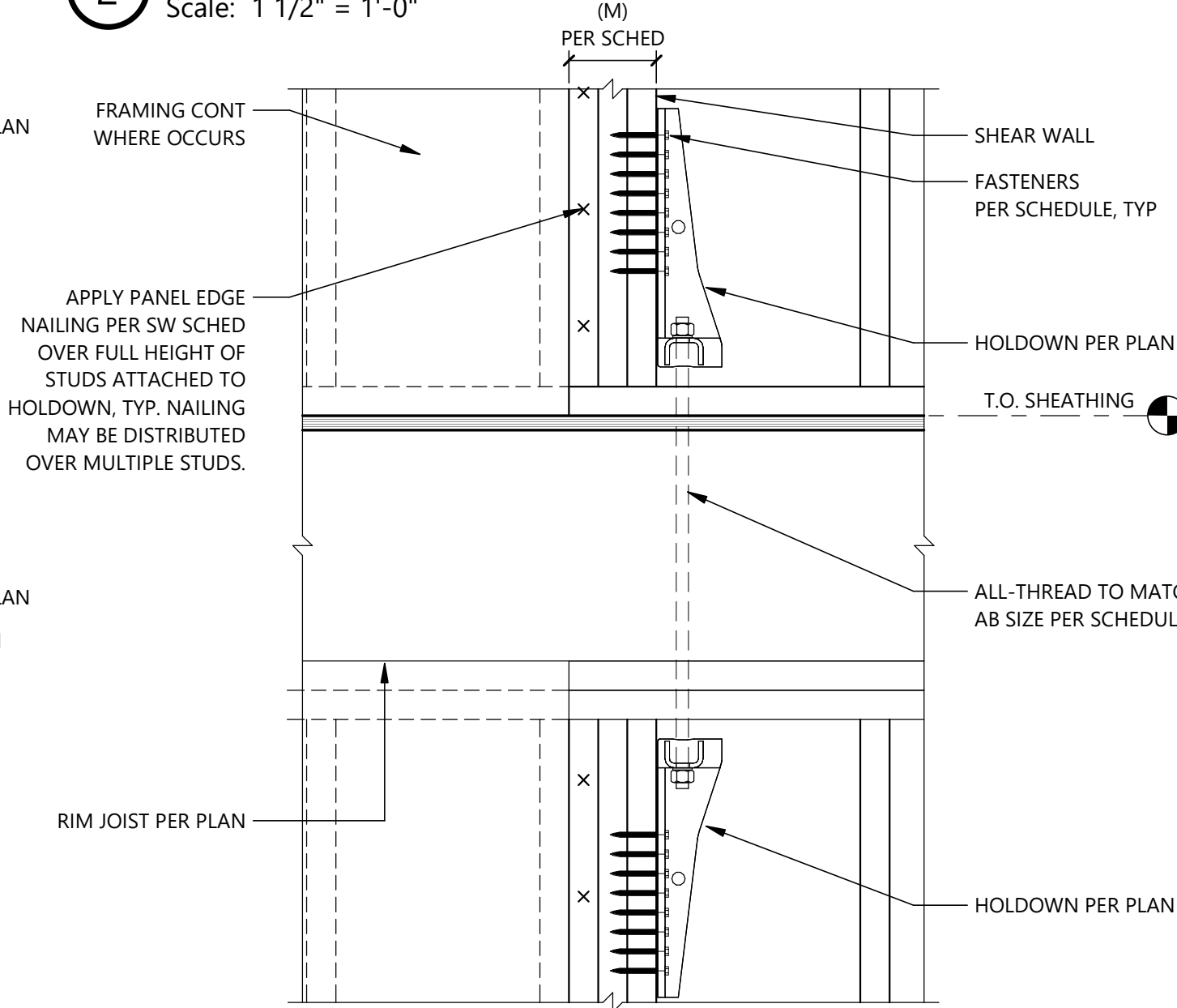
4 Drag Truss
Scale: 3/8" = 1'-0"



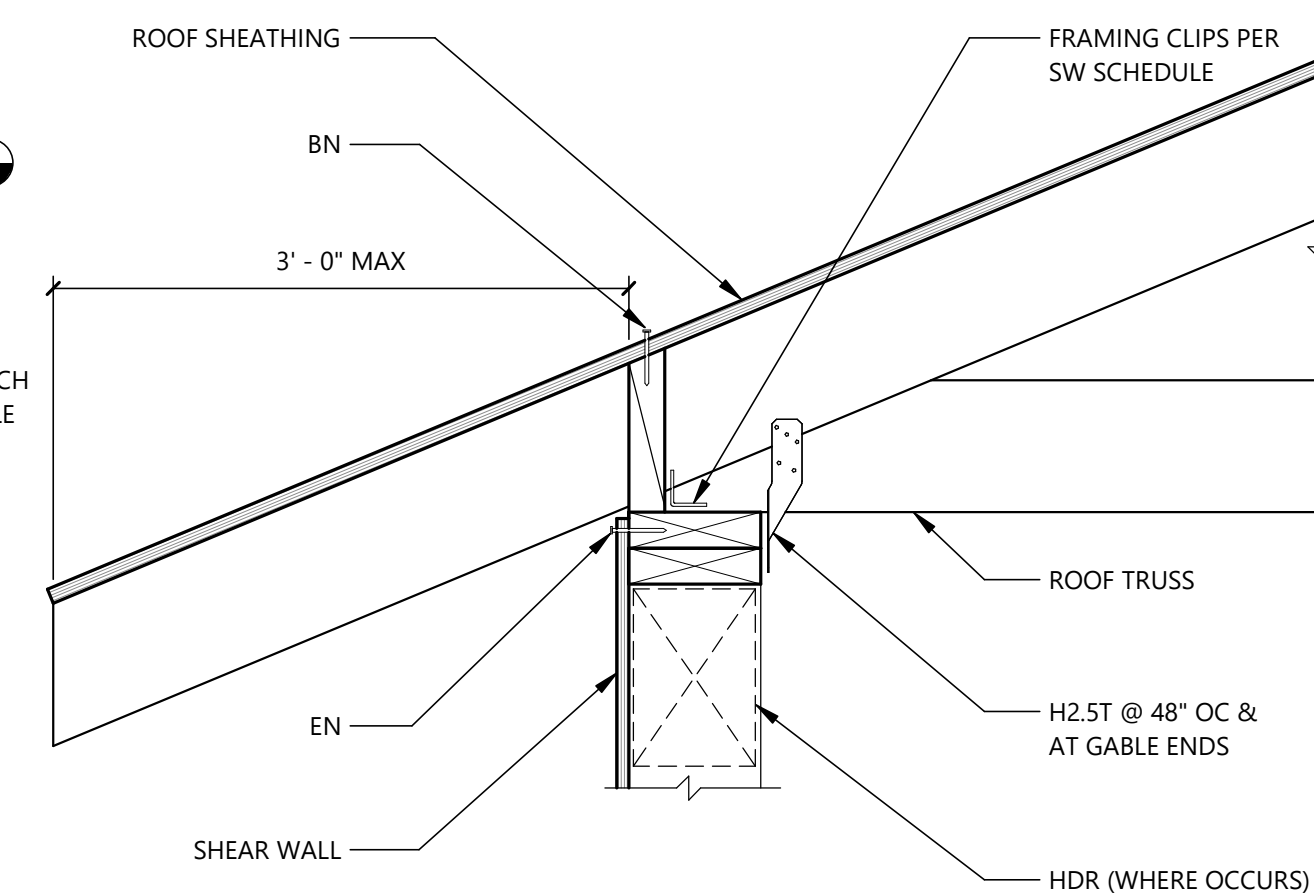
Strap Option



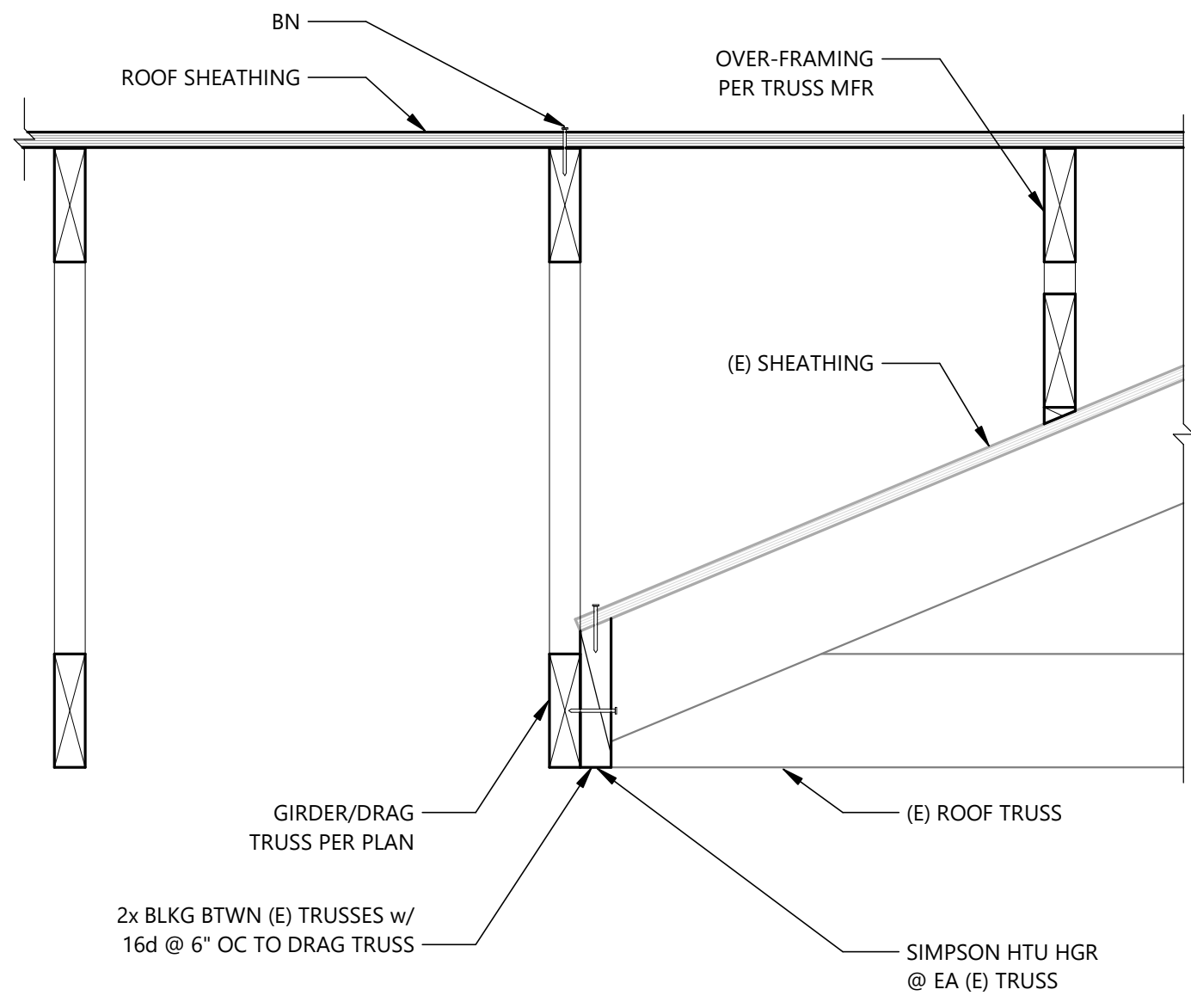
Rim Board Option



6 Typical Holdown at Wood Wall
Scale: 1 1/2" = 1'-0"

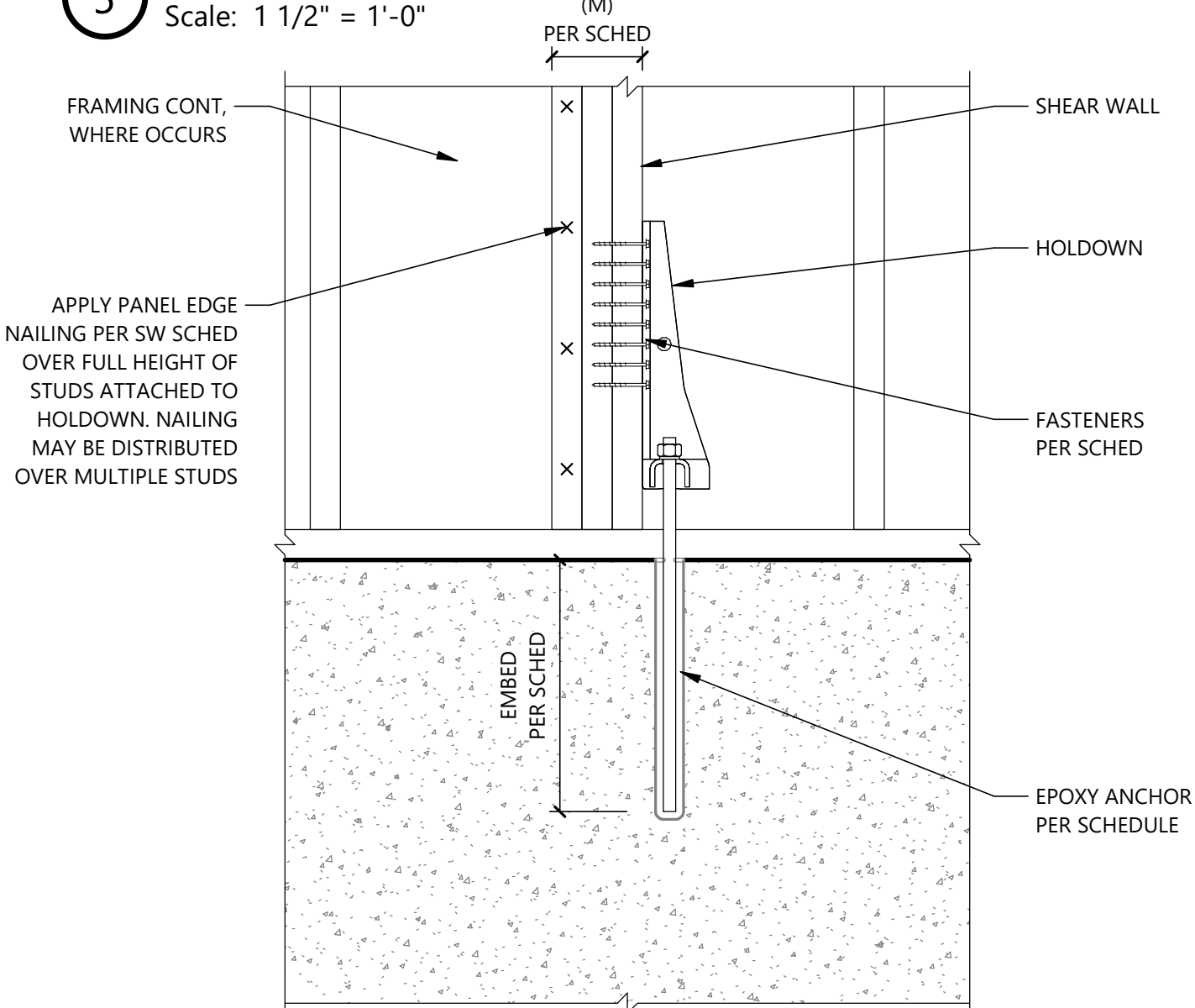


7 Typical Roof Truss Perp
Scale: 1 1/2" = 1'-0"



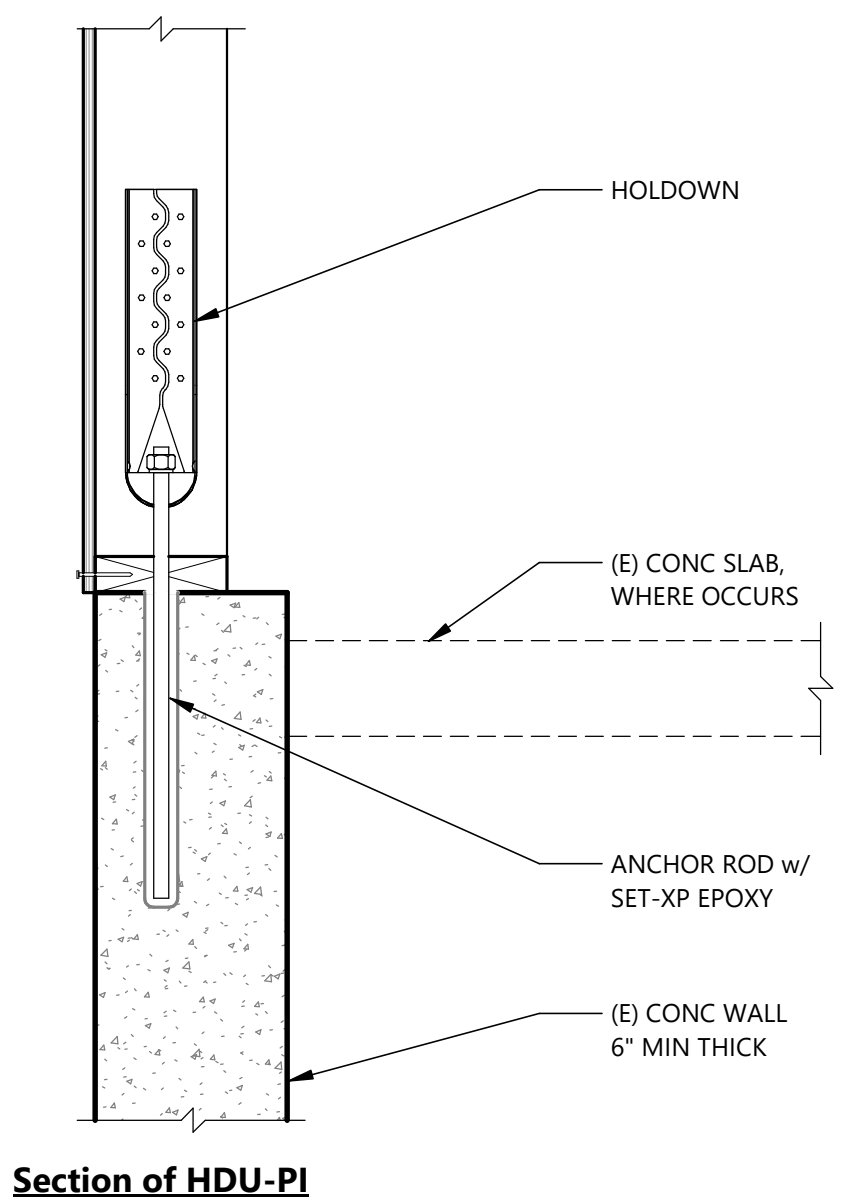
8 Typical Roof Truss Perp to Parallel
Scale: 1 1/2" = 1'-0"

5 Typical Rim Splice
Scale: 1 1/2" = 1'-0"



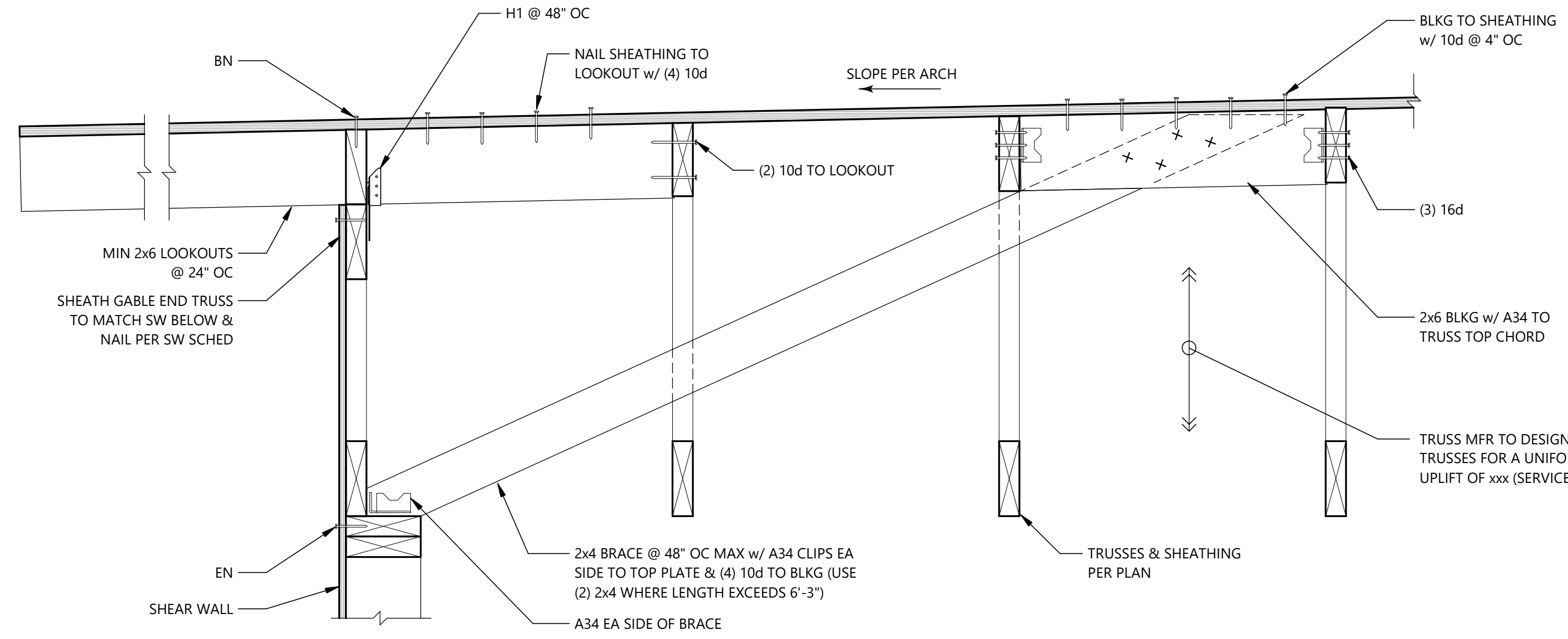
HDU-PI Elevation

9 Typical Holdown - Post-Installed
Scale: 1 1/2" = 1'-0"



Section of HDU-PI

11 Typical Roof Truss Parallel
Scale: 1 1/2" = 1'-0"



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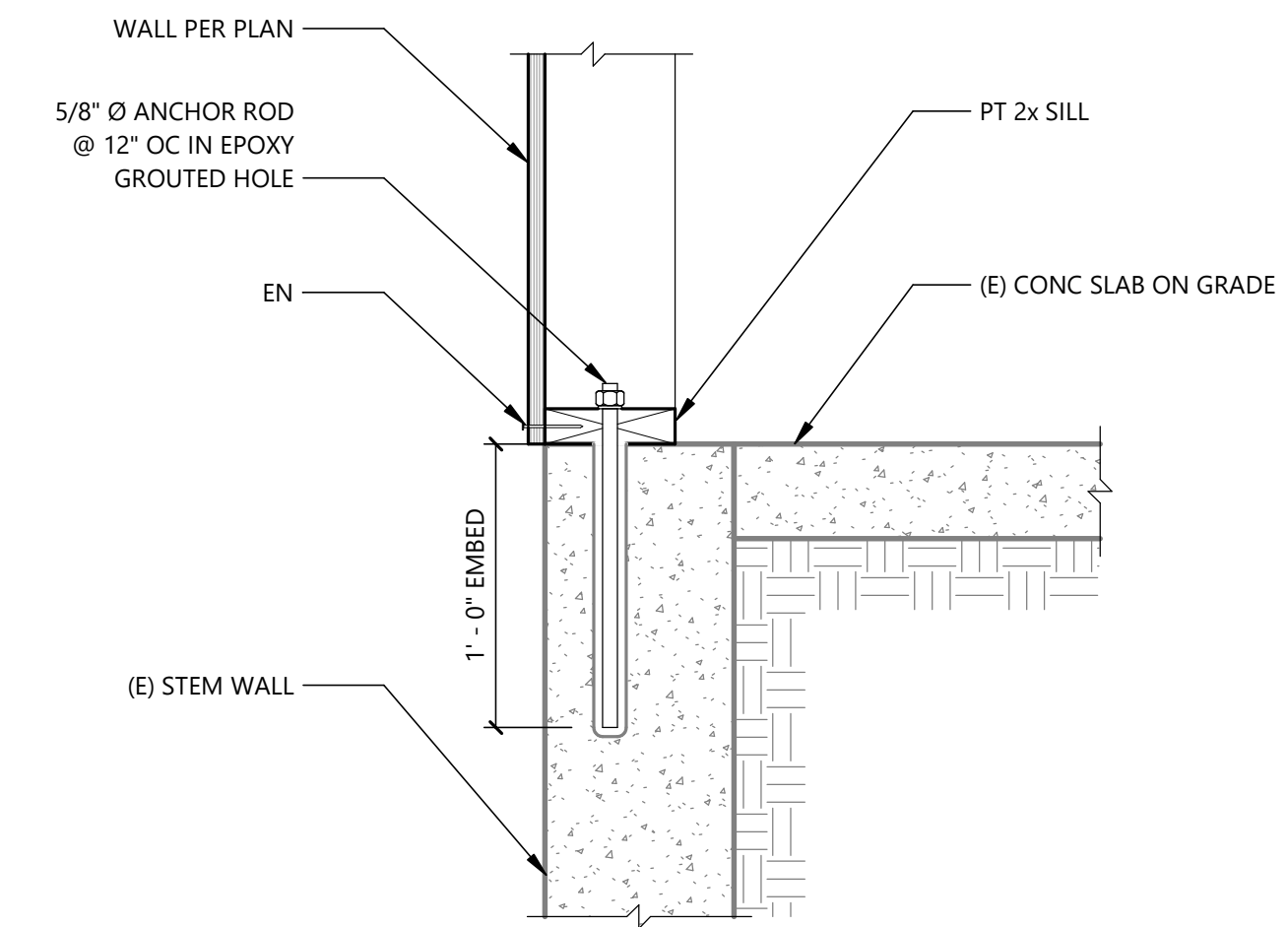
Permit Set 10/01/2021

Department Approval

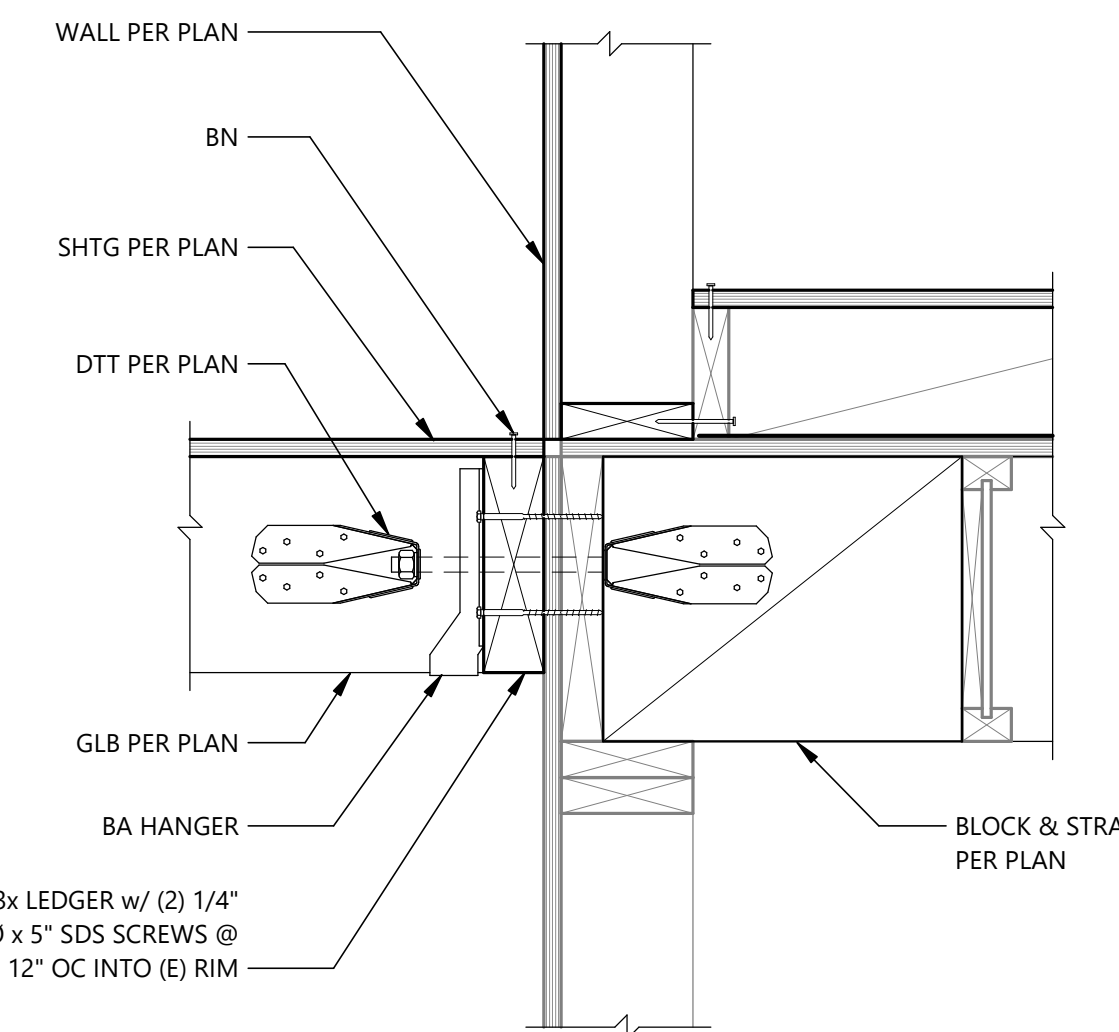
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STRUCTURAL WOOD DETAILS

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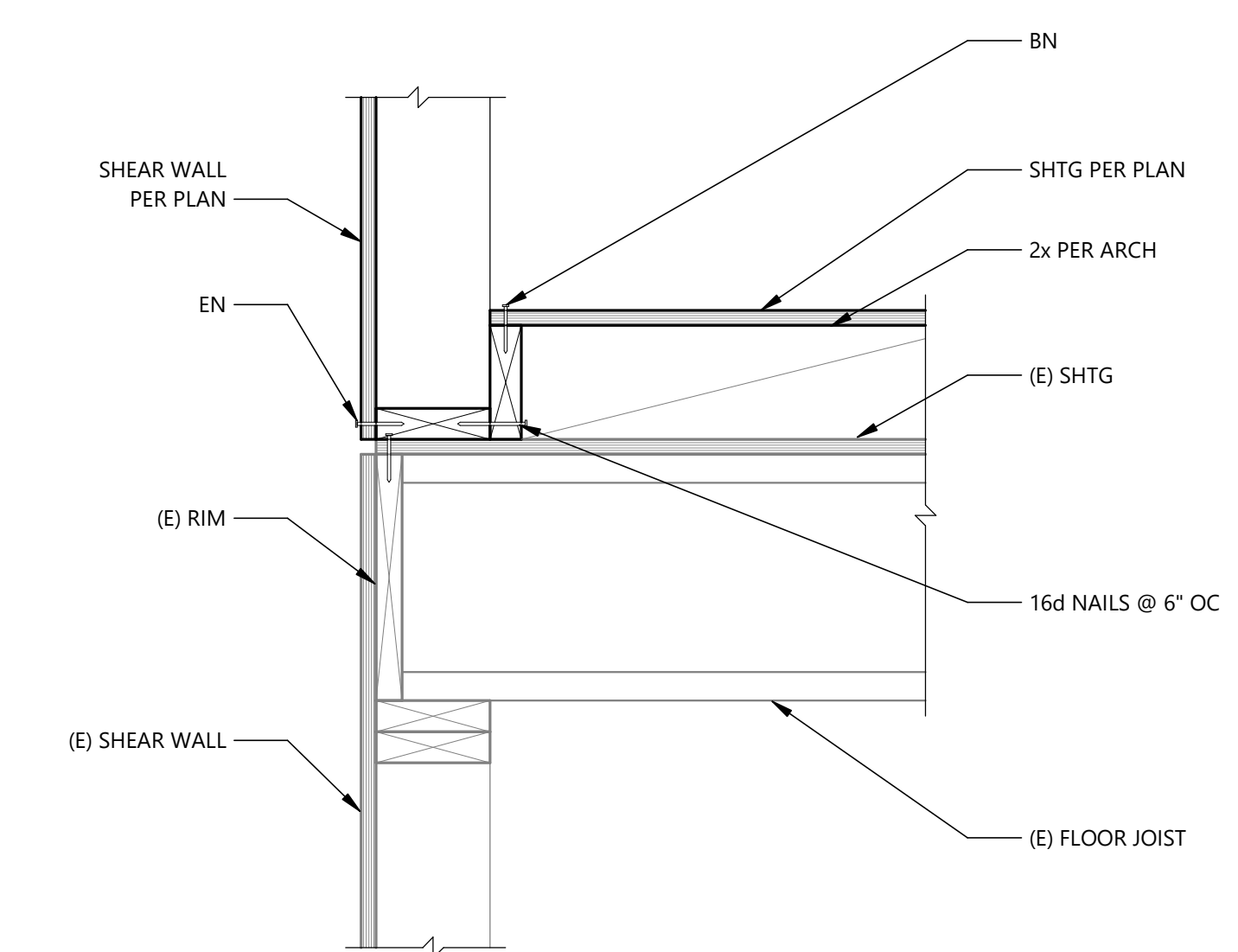


4 Exterior Wall at Patio
Scale: 1 1/2" = 1'-0"

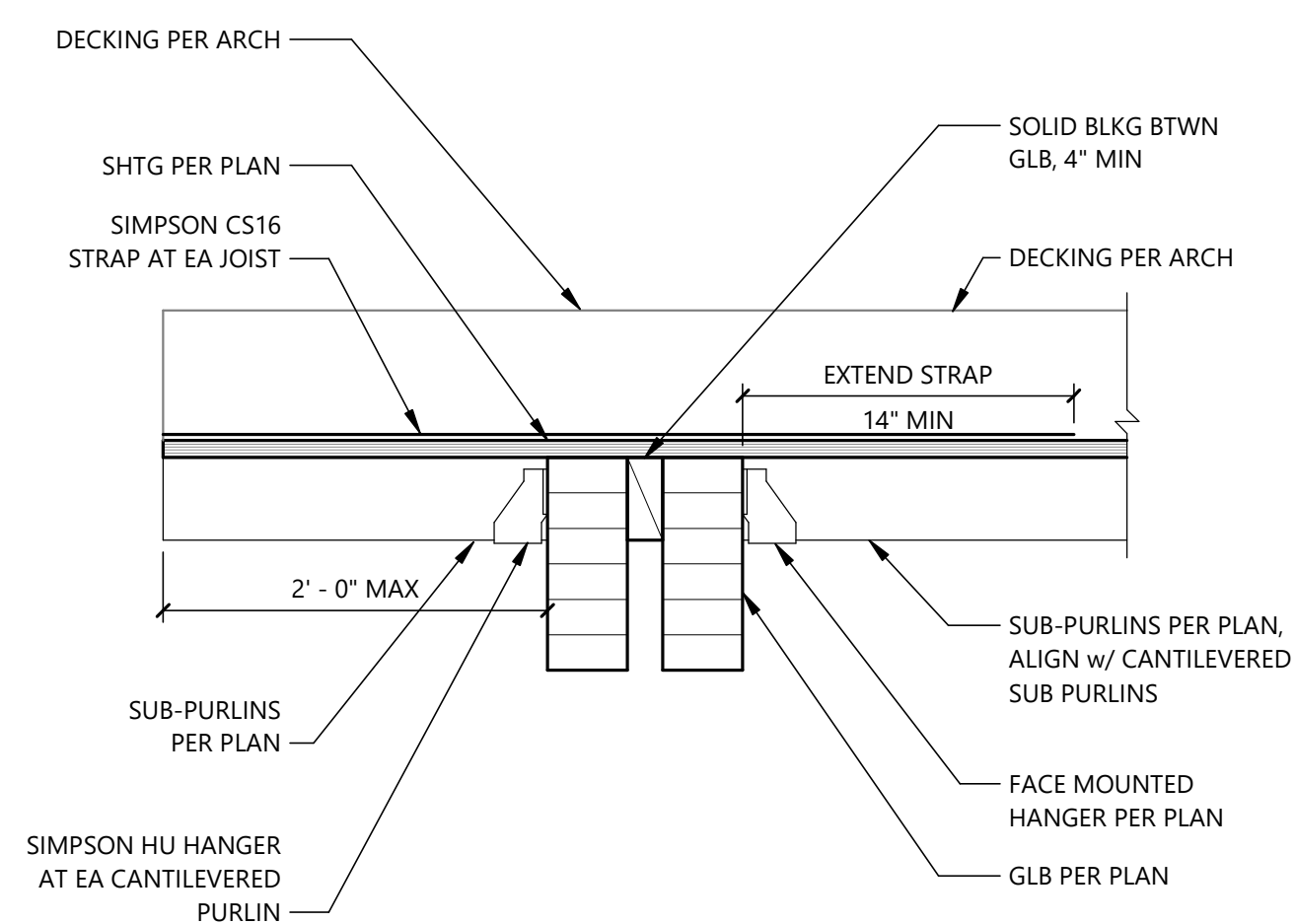


NOTES:
1. SEE 8/S6.3 FOR INFORMATION NOT SHOWN.

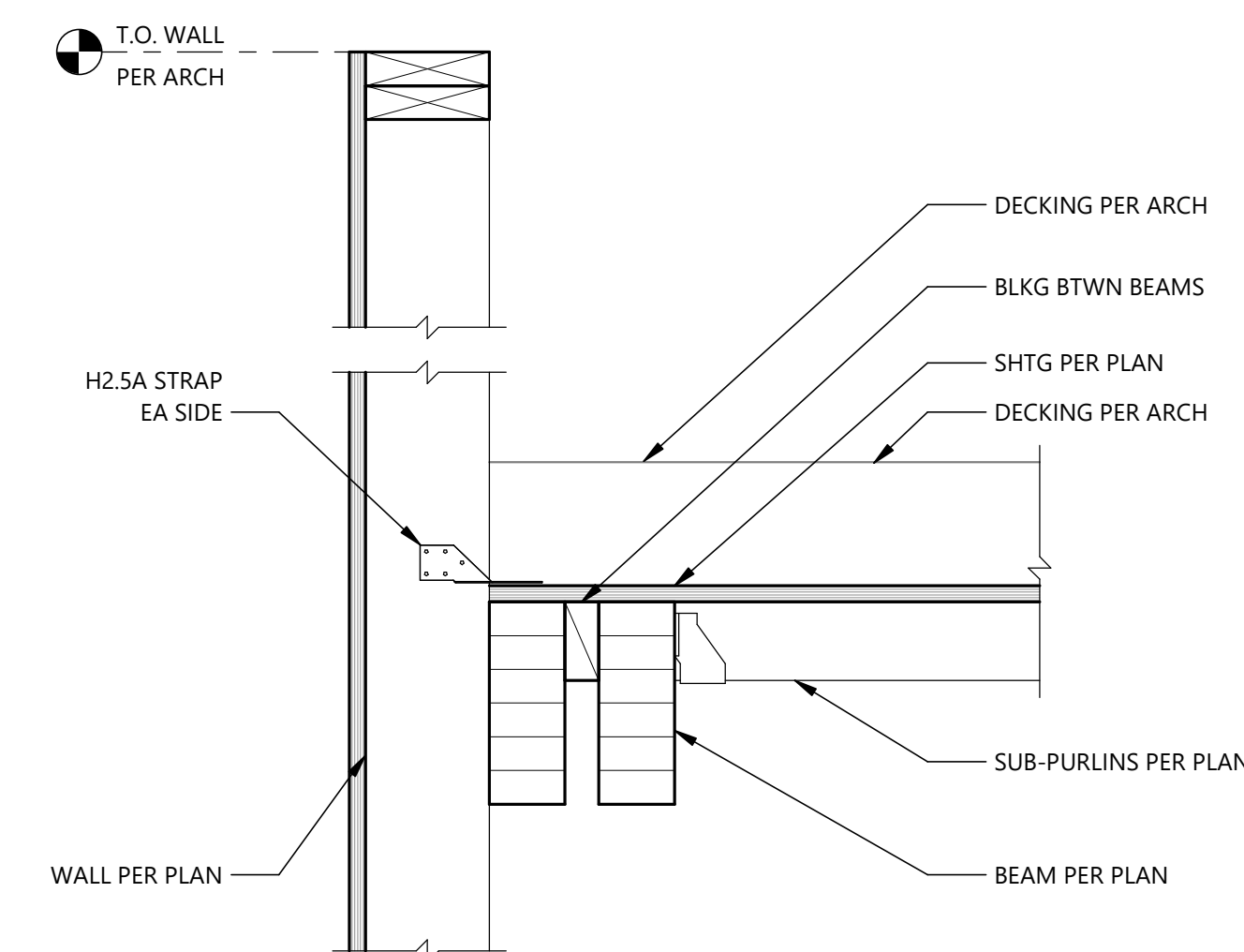
7 Deck Framing at Exterior Wall
Scale: 1 1/2" = 1'-0"



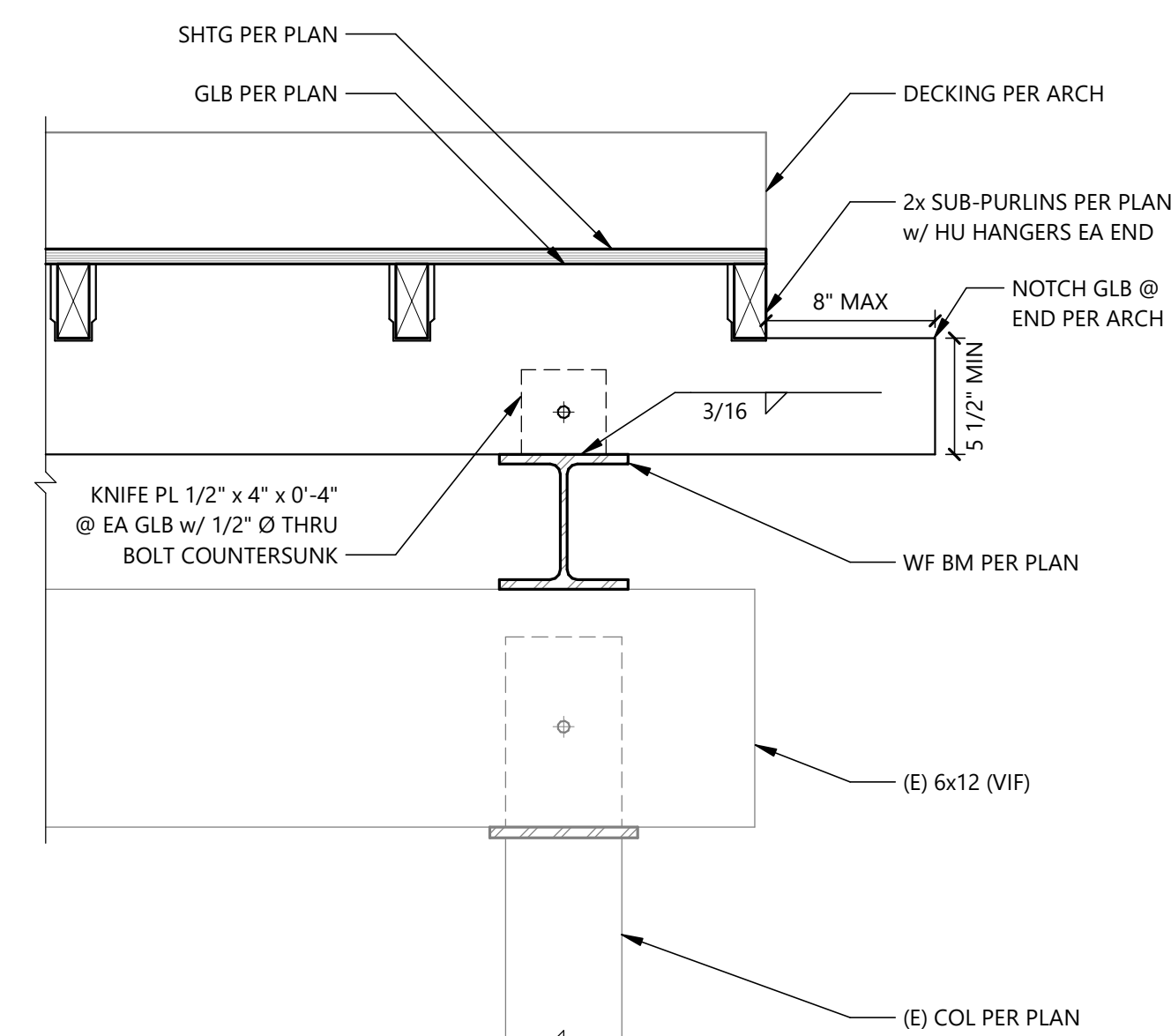
8 Exterior Wall Framing
Scale: 1 1/2" = 1'-0"



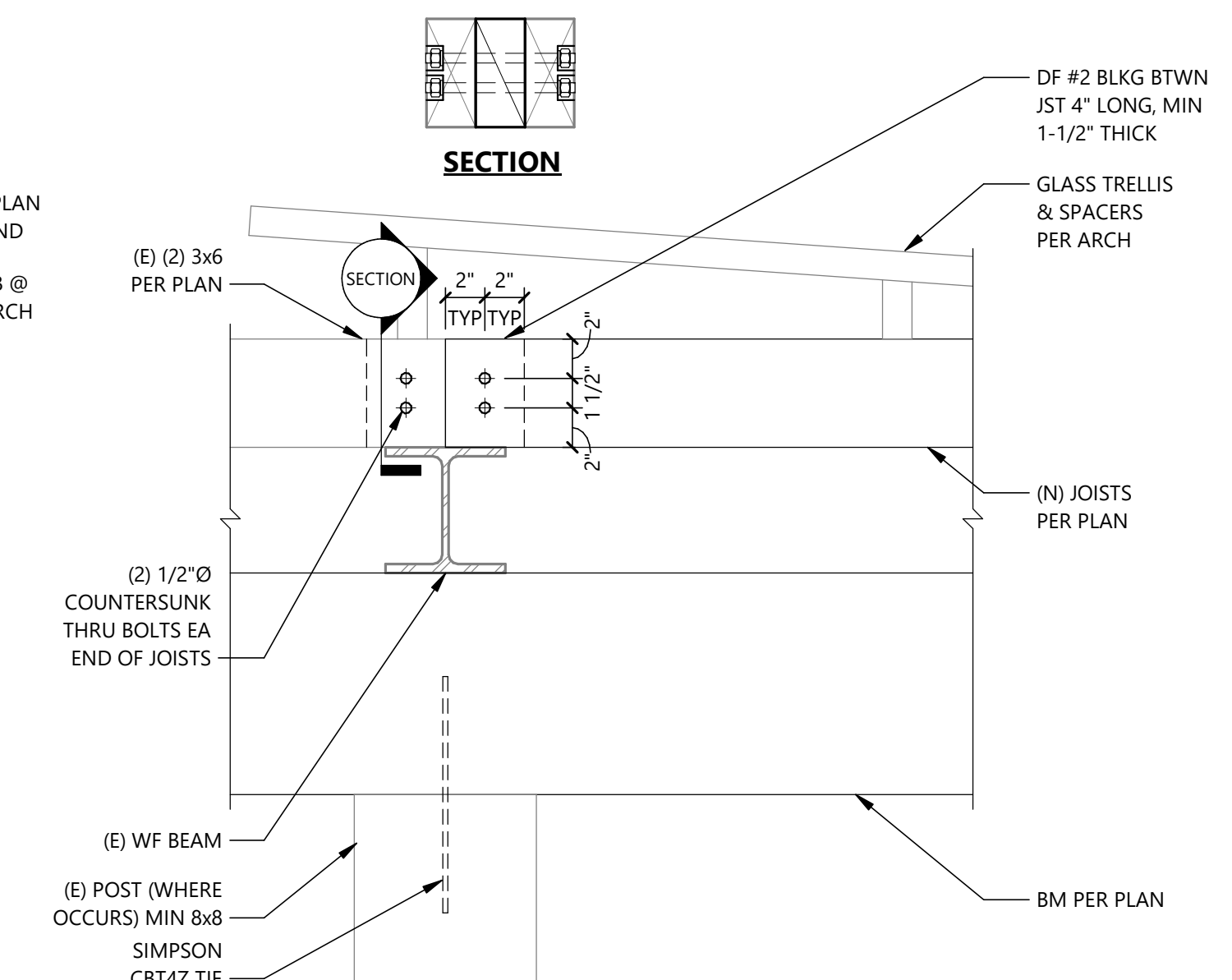
9 Deck Framing at Cantilever
Scale: 1 1/2" = 1'-0"



10 Deck Framing
Scale: 1 1/2" = 1'-0"



11 Deck Framing
Scale: 1 1/2" = 1'-0"



12 Trellis Framing
Scale: 1 1/2" = 1'-0"