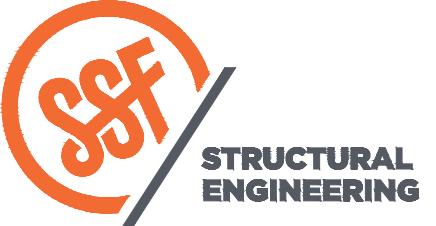


General Structural Notes

THE FOLLOWING APPLY UNLESS SHOWN OTHERWISE ON THE DRAWINGS



STRUCTURAL
ENGINEERING
SEATTLE
2120 Third Avenue, Suite 100
Seattle, WA 98121
TACOMA
934 Broadway, Suite 100
Tacoma, WA 98402
CENTRAL WASHINGTON
206-443-6212
414 N Pearl Street, Suite 8
Ellensburg, WA 98926
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DRAWN: BJH
DESIGN: LTN
CHECKED: RCG
APPROVED: RCG

REVISIONS: _____

JURISDICTIONAL APPROVAL STAMP: _____

PROJECT TITLE: Burner Deck
3932 NE 157th
Lake Forest Park, WA 98155

ARCHITECT: Sandall Norrie Architects
603 Stewart Street St. 711
Seattle, Washington 98101
PH 206-343-9538

ISSUE: _____

Permit

SCALE: = 1'-0" U.N.O.
DATE: 11/11/2022
PROJECT NO: 13063-2022-01
SHEET NO: _____

S1.1

CRITERIA

- ALL MATERIALS, WORKMANSHIP, DESIGN, AND CONSTRUCTION SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND THE 2018 SEATTLE BUILDING CODE.
- DESIGN LOADING CRITERIA:
MISCELLANEOUS LOADS
DECKS 1.5 x AREA SERVED
LIVE LOAD DEFLECTION L/360
TOTAL LOAD DEFLECTION L/240
ENVIRONMENTAL LOADS
SNOW Ce=1.0, Is=1.0, Ct=1.1, Cs=1.0, Pg=25 PSF, Pf=20 PSF
WIND COp=0.18, 100 MPH, RISK CATEGORY II, EXPOSURE "B"
EARTHQUAKE ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
LATERAL SYSTEM: LIGHT FRAMED SHEAR WALLS
SITE CLASS=D, Ss=126, Sds=84, S1=44, SD1=55, Cs=0.130
SDC D (DEFAULT), Ie=1.0, R=6.5
SEE PLANS FOR ADDITIONAL LOADING CRITERIA
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THE SPECIFICATION, THESE GENERAL NOTES AND THE SITE CONDITIONS SHALL BE REPORTED TO THE ARCHITECT, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE GENERAL CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY SHALL BE DONE AT THE GENERAL CONTRACTOR'S RISK.
- PRIMARY STRUCTURAL ELEMENTS NOT DIMENSIONED ON THE STRUCTURAL PLANS AND DETAILS SHALL BE LOCATED BY THE ARCHITECTURAL PLANS AND DETAILS. VERTICAL DIMENSION CONTROL IS DEFINED BY THE ARCHITECTURAL WALL SECTIONS, BUILDING SECTION, AND PLANS. DETAILING AND SHOP DRAWING PRODUCTION FOR STRUCTURAL ELEMENTS WILL REQUIRE DIMENSIONAL INFORMATION CONTAINED IN BOTH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND THE METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES REQUIRED TO PERFORM THE CONTRACTOR'S WORK. THE STRUCTURAL ENGINEER HAS NO OVERALL SUPERVISORY AUTHORITY OR ACTUAL AND/OR DIRECT RESPONSIBILITY FOR THE SPECIFIC WORKING CONDITIONS AT THE SITE AND/OR FOR ANY HAZARDS RESULTING FROM THE ACTIONS OF ANY TRADE CONTRACTOR. THE STRUCTURAL ENGINEER HAS NO DUTY TO INSPECT, SUPERVISE, NOTE, CORRECT, OR REPORT ANY HEALTH OR SAFETY DEFICIENCIES TO THE OWNER, CONTRACTORS, OR OTHER ENTITIES OR PERSONS AT THE PROJECT SITE.
- CONTRACTOR SHALL PROVIDE TEMPORARY BRACING FOR THE STRUCTURE AND STRUCTURAL COMPONENTS UNTIL ALL FINAL CONNECTIONS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE PLANS. CONFORM TO ASCE 37-14 "DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION".
- CONTRACTOR-INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION OR CONSTRUCTION. CHANGES SHOWN ON SHOP DRAWINGS ONLY WILL NOT SATISFY THIS REQUIREMENT.
- DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED, SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT AND THE STRUCTURAL ENGINEER. ALL TYPICAL NOTES AND DETAILS SHOWN ON DRAWINGS SHALL APPLY, UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE PLANS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. WHERE NO TYPICAL DETAIL IS NOTED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CHOOSE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED OR REQUEST ADDITIONAL INFORMATION. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS TO THOSE PROVIDED WITH RELATED CALCULATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.

GEOTECHNICAL

- FOUNDATION NOTES: ALLOWABLE SOIL PRESSURE AND LATERAL EARTH PRESSURE ARE ASSUMED AND THEREFORE MUST BE VERIFIED BY A QUALIFIED SOILS ENGINEER OR APPROVED BY THE BUILDING OFFICIAL. IF SOILS ARE FOUND TO BE OTHER THAN ASSUMED, NOTIFY THE STRUCTURAL ENGINEER FOR POSSIBLE FOUNDATION REDESIGN.
FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH AT LEAST 18" BELOW ADJACENT FINISHED GRADE. UNLESS OTHERWISE NOTED, FOOTINGS SHALL BE CENTERED BELOW COLUMNS OR WALLS ABOVE.
BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING, GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE.
- ALLOWABLE PASSIVE EARTH PRESSURE (FS OF 1.5 INCLUDED). 300 PCF
SOILS REPORT REFERENCE: Geotechnical Engineering Considerations by D. Robert Ward, PE of GEOTECH CONSULTANTS, INC, dated June 27th, 2022.

- PIN PILES SHOWN ON THE PLAN SHALL BE 2" DIAMETER EXTRA-STRONG, GRADE A, GALVANIZED, UNLESS OTHERWISE NOTED. THE MAXIMUM CAPACITY OF 2" PILES SHALL BE 3 TONS. ALL PILES SHALL BE DRIVEN TO REFUSAL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. AS A MINIMUM, PILE REFUSAL SHALL BE DEFINED AS 1 INCH OF PENETRATION IN 60 SECONDS DURING CONTINUOUS DRIVING OF A 90 LB JACK HAMMER UNDER THE FULL WEIGHT AND EFFORT OF THE OPERATOR. THE MAXIMUM PILE ECCENTRICITY SHALL BE 2 INCHES. GEOTECHNICAL SPECIAL INSPECTION SHALL BE SUBJECT TO THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND THE BUILDING DEPARTMENT. SEE PLANS FOR OTHER SIZES AND CRITERIA.

RENOVATION

- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS ARE INTENDED AS GUIDELINES ONLY AND MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IF EXISTING CONDITIONS DETERMINED DURING WORK VARY FROM THE EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS.
- CONTRACTOR SHALL CHECK FOR DRY ROT AT ALL AREAS OF NEW WORK. ALL ROT SHALL BE REMOVED AND DAMAGED MEMBERS SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE STRUCTURAL ENGINEER OR ARCHITECT.

CONCRETE

- CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH ACI 301, INCLUDING TESTING PROCEDURES. CONCRETE SHALL ATTAIN A 28-DAY STRENGTH OF $f'_c = 3,000$ PSI AND MIX SHALL CONTAIN NOT LESS THAN 5-1/2 SACKS OF CEMENT PER CUBIC YARD AND SHALL BE PROPORTIONED TO PRODUCE A SLUMP OF 5" OR LESS. REQUIRED CONCRETE STRENGTH IS BASED ON THE DURABILITY REQUIREMENTS OF SECTION 1904 OF THE IBC. DESIGN STRENGTH IS $f'_c = 2,500$ PSI.
- ALL CONCRETE WITH SURFACES EXPOSED TO WEATHER OR STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, AND C618. TOTAL AIR CONTENT FOR FROST-RESISTANT CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318-14, TABLE 19.3.2.1 MODERATE EXPOSURE, F1.
- REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, FY = 60,000 PSI. EXCEPTIONS: ANY BARS SPECIFICALLY SO NOTED ON THE DRAWINGS SHALL BE GRADE 40, FY = 40,000 PSI. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. SPIRAL REINFORCEMENT SHALL BE DEFORMED WIRE CONFORMING TO ASTM A615, GRADE 60, FY = 60,000 PSI.

- DETAILING OF REINFORCING STEEL (INCLUDING HOOKS AND BENDS) SHALL BE IN ACCORDANCE WITH ACI 315R-18 AND 318-14. LAP ALL CONTINUOUS REINFORCEMENT #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS #5 AND SMALLER 40 BAR DIAMETERS OR 2'-0" MINIMUM. LAPS OF LARGER BARS SHALL BE MADE IN ACCORDANCE WITH ACI 318-14, CLASS B. LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8" AT SIDES AND ENDS.

- NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.
- CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:
FOOTINGS AND OTHER UNFORMED SURFACES CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"

ANCHORAGE

- CONCRETE SCREW ANCHORS INTO CONCRETE SHALL BE "TITEN HD" HEAVY DUTY SCREW ANCHOR AS MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY, INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT NO. ESR-2713 (CONCRETE), NO. ESR-1056 (CMU), INCLUDING MINIMUM EMBEDMENT REQUIREMENTS. SPECIAL INSPECTION IS REQUIRED.

WOOD

- FRAMING LUMBER SHALL BE S-DRY, KD, OR MC-19, AND GRADED AND MARKED IN CONFORMANCE WITH WCLIB STANDARD No. 17, GRADING RULES FOR WEST COAST LUMBER, 2018, OR WPA STANDARD, WESTERN LUMBER GRADING RULES 2017. FURNISH TO THE FOLLOWING MINIMUM STANDARDS:

JOISTS (2X & 3X MEMBERS) AND BEAMS	HEM-FIR NO. 2 MINIMUM BASE VALUE, $F_b = 850$ PSI
POSTS (4X MEMBERS)	DOUGLAS FIR-LARCH NO. 2 MINIMUM BASE VALUE, $F_c = 1350$ PSI
(6X AND LARGER)	DOUGLAS FIR-LARCH NO. 1 MINIMUM BASE VALUE, $F_c = 1000$ PSI

- STUDS, PLATES & MISC. FRAMING: DOUGLAS FIR-LARCH NO. 2
OR HEM-FIR NO. 2

- GLUED LAMINATED MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ASTM AND ANSI/AITC STANDARDS. EACH MEMBER SHALL BEAR AN AITC OR APA IDENTIFICATION MARK AND SHALL BE ACCOMPANIED BY AN AITC OR APA CERTIFICATE OF CONFORMANCE. ALL SIMPLE SPAN BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V4, $F_b = 2,400$ PSI, $F_v = 265$ PSI. ALL CANTILEVERED BEAMS SHALL BE DOUGLAS FIR COMBINATION 24F-V8, $F_b = 2400$ PSI, $F_v = 265$ PSI. CANTER ALL SIMPLE SPAN GLULAM BEAMS, WITH SPANS OVER 30', TO 3,500' RADIUS, UNLESS SHOWN OTHERWISE ON THE PLANS.

- ALL WOOD IN DIRECT CONTACT WITH CONCRETE SHALL BE PRESSURE-TREATED WITH AN APPROVED PRESERVATIVE OR (2) LAYERS OF ASPHALT IMPREGNATED BUILDING PAPER SHALL BE PROVIDED BETWEEN UNTREATED WOOD AND CONCRETE OR MASONRY.

- PRESERVATIVE TREATED WOOD SHALL BE TREATED PER WPA STANDARD U1 TO THE USE CATEGORY EQUAL TO OR HIGHER THAN THE INTENDED APPLICATION. TREATED WOOD FOR ABOVE GROUND USE SHALL BE TREATED TO WPA UC3B. WOOD IN CONTINUOUS CONTACT WITH FRESH WATER OR SOIL SHALL BE TREATED TO WPA UC4A. WOOD FOR USE IN PERMANENT FOUNDATIONS SHALL BE TREATED TO WPA UC4B.

- FASTENERS AND TIMBER CONNECTORS USED WITH TREATED WOOD SHALL HAVE CORROSION RESISTANCE AS INDICATED IN THE FOLLOWING TABLE, UNLESS OTHERWISE NOTED.

WOOD TREATMENT	CONDITION	PROTECTION
HAS NO AMMONIA CARRIER	INTERIOR DRY	G90 GALVANIZED
CONTAINS AMMONIA CARRIER	INTERIOR DRY	G185 OR A185 HOT DIPPED OR CONTINUOUS HOT-GALVANIZED PER ASTM A653
CONTAINS AMMONIA CARRIER	INTERIOR WET	TYPE 304 OR 316 STAINLESS
CONTAINS AMMONIA CARRIER	EXTERIOR	TYPE 304 OR 316 STAINLESS
ACCA	ANY	TYPE 304 OR 316 STAINLESS

INTERIOR DRY CONDITIONS SHALL HAVE WOOD MOISTURE CONTENT LESS THAN 19%. WOOD MOISTURE CONTENT IN OTHER CONDITIONS (INTERIOR WET, EXTERIOR WET, AND EXTERIOR DRY) IS EXPECTED TO EXCEED 19%. CONNECTORS AND THEIR FASTENERS SHALL BE THE SAME MATERIAL. COMPLY WITH THE TREATMENT MANUFACTURERS RECOMMENDATIONS FOR PROTECTION OF METAL.

- TIMBER CONNECTORS CALLED OUT BY LETTERS AND NUMBERS SHALL BE "STRONG-TIE" BY SIMPSON COMPANY, AS SPECIFIED IN THEIR CATALOG NUMBER C-G-2019. EQUIVALENT DEVICES BY OTHER MANUFACTURERS MAY BE SUBSTITUTED, PROVIDED THEY HAVE ICC-ES APPROVAL FOR EQUAL OR GREATER LOAD CAPACITIES. PROVIDE NUMBER AND SIZE OF FASTENERS AS SPECIFIED BY MANUFACTURER FOR MAXIMUM LOAD CARRYING CAPACITY. CONNECTORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

ALL 2X JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "LUS" SERIES JOIST HANGERS. ALL TJI JOISTS SHALL BE CONNECTED TO FLUSH BEAMS WITH "ITS" SERIES JOIST HANGERS. ALL DOUBLE-JOIST BEAMS SHALL BE CONNECTED TO FLUSH BEAMS WITH "MIT" SERIES JOIST HANGERS.

WHERE CONNECTOR STRAPS CONNECT TWO MEMBERS, PLACE ONE-HALF OF THE NAILS OR BOLTS IN EACH MEMBER.

ALL SHIMS SHALL BE SEASONED AND DRIED AND THE SAME GRADE (MINIMUM) AS MEMBERS CONNECTED.

WOOD FASTENERS

- NAIL SIZES SPECIFIED ON DRAWINGS ARE BASED ON THE FOLLOWING SPECIFICATIONS:

SIZE	LENGTH	DIAMETER
6d	2"	0.113"
8d	2-1/2"	0.131"
10d	3"	0.148"
12d	3-1/4"	0.148"
16d BOX	3-1/2"	0.135"

IF CONTRACTOR PROPOSES THE USE OF ALTERNATE NAILS, THEY SHALL SUBMIT NAIL SPECIFICATIONS TO THE STRUCTURAL ENGINEER (PRIOR TO CONSTRUCTION) FOR REVIEW AND APPROVAL.

NAILS - PLYWOOD (APA RATED SHEATHING) FASTENERS TO FRAMING SHALL BE DRIVEN FLUSH TO FACE OF SHEATHING WITH NO COUNTERSINKING PERMITTED. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES WITH THE MEMBER AND STARTED 1/3 THE LENGTH OF THE NAIL FROM THE MEMBER END.

B. ALL BOLTS IN WOOD MEMBERS SHALL CONFORM TO ASTM A307. PROVIDE WASHERS UNDER THE HEADS AND NUTS OF ALL BOLTS AND LAG BOLTS BEARING ON WOOD. INSTALLATION OF LAG BOLTS SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION WITH A LEAD BORE HOLE OF 60 TO 70 PERCENT OF THE SHANK DIAMETER. LEAD HOLES ARE NOT REQUIRED FOR 3/8" AND SMALLER LAG SCREWS.

NOTCHES AND HOLES IN WOOD FRAMING:

A. NOTCHES ON THE ENDS OF SOLID SAWN JOISTS AND RAFTERS SHALL NOT EXCEED ONE-FOURTH THE JOIST DEPTH. NOTCHES IN THE TOP OR BOTTOM OF SOLID SAWN JOISTS SHALL NOT EXCEED ONE-SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN. HOLES BORED IN SOLID SAWN JOISTS AND RAFTERS SHALL NOT BE WITHIN 2 INCHES OF THE TOP OR BOTTOM OF THE JOIST, AND THE DIAMETER OF ANY SUCH HOLE SHALL NOT EXCEED ONE-THIRD THE DEPTH OF THE JOIST.

B. IN EXTERIOR WALLS AND BEARING PARTITIONS, ANY WOOD STUD IS PERMITTED TO BE CUT OR NOTCHED TO A DEPTH NOT EXCEEDING 25 PERCENT OF ITS WIDTH. A HOLE NOT GREATER IN DIAMETER THAN 40 PERCENT OF THE STUD WIDTH IS PERMITTED TO BE BORED IN ANY WOOD STUD. IN NO CASE SHALL THE EDGE OF THE BORED HOLE BE NEARER THAN 5/8 INCH TO THE EDGE OF THE STUD. BORED HOLES SHALL NOT BE LOCATED AT THE SAME SECTION OF STUD AS A CUT OR NOTCH.

WOOD FRAMING NOTES--THE FOLLOWING APPLY UNLESS OTHERWISE SHOWN ON THE PLANS:

- ALL WOOD FRAMING DETAILS NOT SHOWN OTHERWISE SHALL BE CONSTRUCTED TO THE MINIMUM STANDARDS OF THE INTERNATIONAL BUILDING CODE, THE AITC "TIMBER CONSTRUCTION MANUAL" AND THE AWC "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION". MINIMUM NAILING, UNLESS OTHERWISE NOTED, SHALL CONFORM TO IBC TABLE 2304.10.1. COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS.

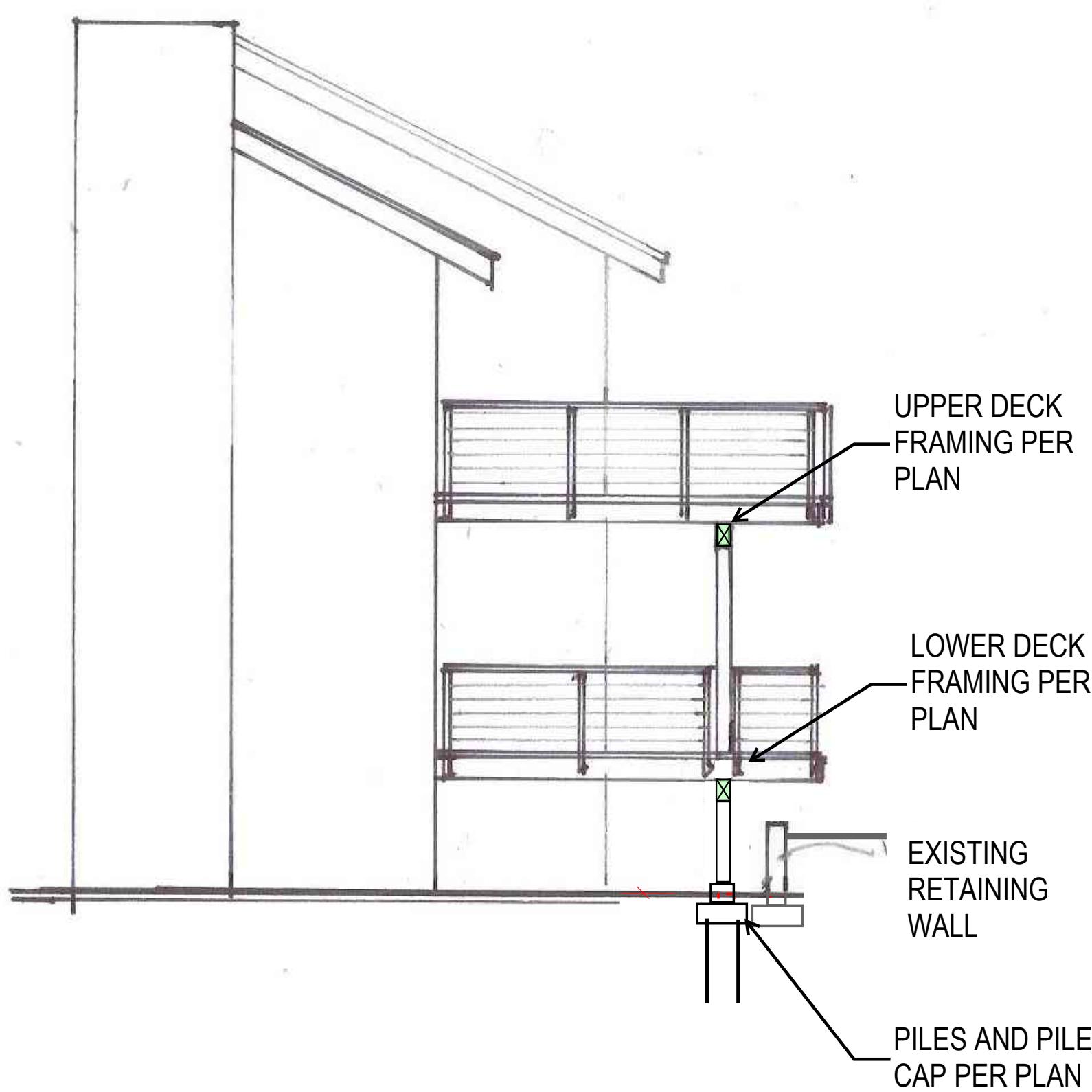
- GEOTECHNICAL
- FOUNDATION NOTES: ALLOWABLE SOIL PRESSURE AND LATERAL EARTH PRESSURE ARE ASSUMED AND THEREFORE MUST BE VERIFIED BY A QUALIFIED SOILS ENGINEER OR APPROVED BY THE BUILDING OFFICIAL. IF SOILS ARE FOUND TO BE OTHER THAN ASSUMED, NOTIFY THE STRUCTURAL ENGINEER FOR POSSIBLE FOUNDATION REDESIGN.
FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED EARTH AT LEAST 18" BELOW ADJACENT FINISHED GRADE. UNLESS OTHERWISE NOTED, FOOTINGS SHALL BE CENTERED BELOW COLUMNS OR WALLS ABOVE.
BACKFILL BEHIND ALL RETAINING WALLS WITH FREE DRAINING, GRANULAR FILL AND PROVIDE FOR SUBSURFACE DRAINAGE.
- ALLOWABLE PASSIVE EARTH PRESSURE (FS OF 1.5 INCLUDED). 300 PCF
SOILS REPORT REFERENCE: Geotechnical Engineering Considerations by D. Robert Ward, PE of GEOTECH CONSULTANTS, INC, dated June 27th, 2022.
- PIN PILES SHOWN ON THE PLAN SHALL BE 2" DIAMETER EXTRA-STRONG, GRADE A, GALVANIZED, UNLESS OTHERWISE NOTED. THE MAXIMUM CAPACITY OF 2" PILES SHALL BE 3 TONS. ALL PILES SHALL BE DRIVEN TO REFUSAL IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. AS A MINIMUM, PILE REFUSAL SHALL BE DEFINED AS 1 INCH OF PENETRATION IN 60 SECONDS DURING CONTINUOUS DRIVING OF A 90 LB JACK HAMMER UNDER THE FULL WEIGHT AND EFFORT OF THE OPERATOR. THE MAXIMUM PILE ECCENTRICITY SHALL BE 2 INCHES. GEOTECHNICAL SPECIAL INSPECTION SHALL BE SUBJECT TO THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND THE BUILDING DEPARTMENT. SEE PLANS FOR OTHER SIZES AND CRITERIA.
- JOISTS (2X &



DRAWN: BJH
DESIGN: LTN
CHECKED: RCG
APPROVED: RCG

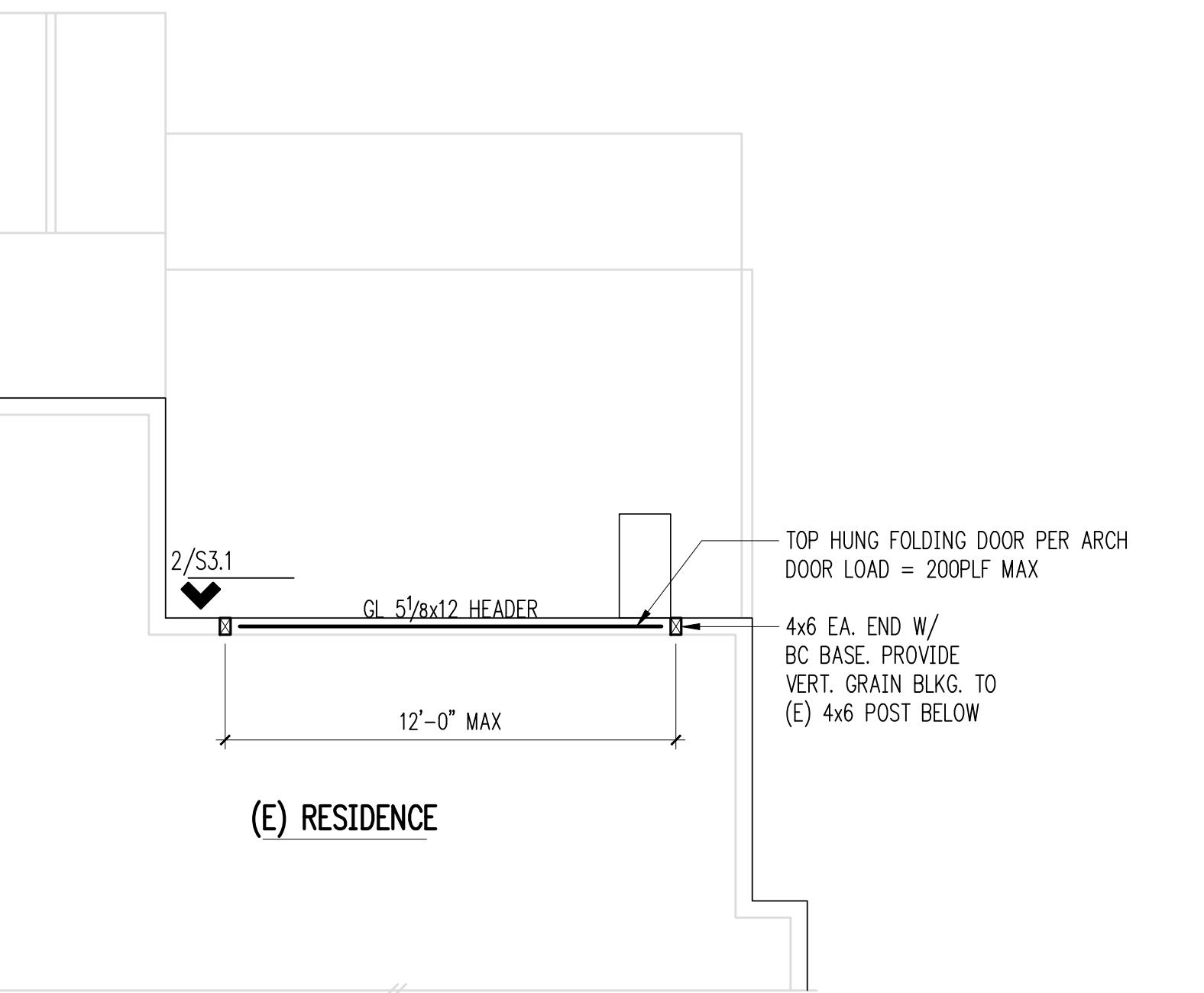
REVISIONS: _____

JURISDICTIONAL APPROVAL STAMP: _____



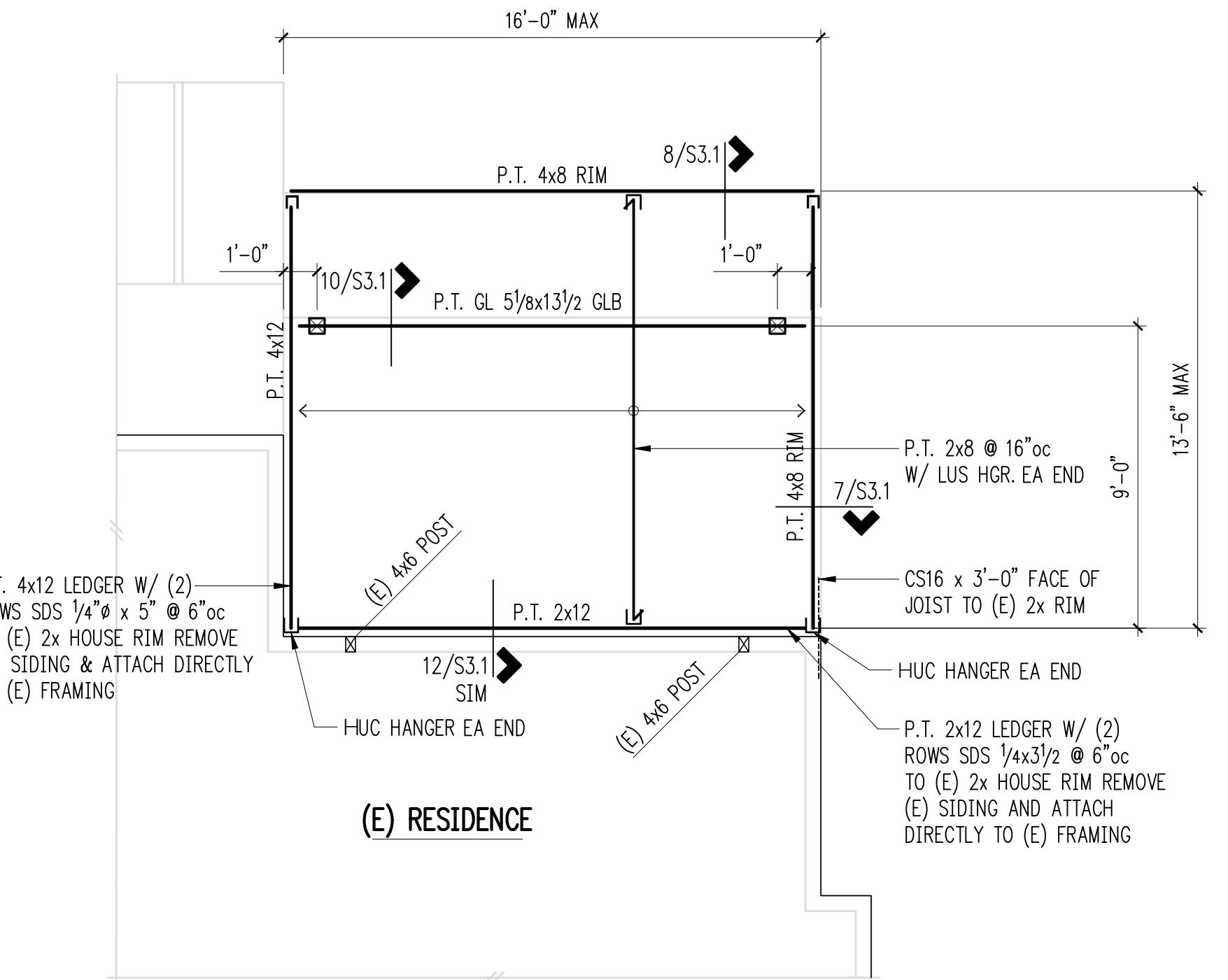
South Elevation

Scale: $\frac{1}{4}$ " = 1'-0"



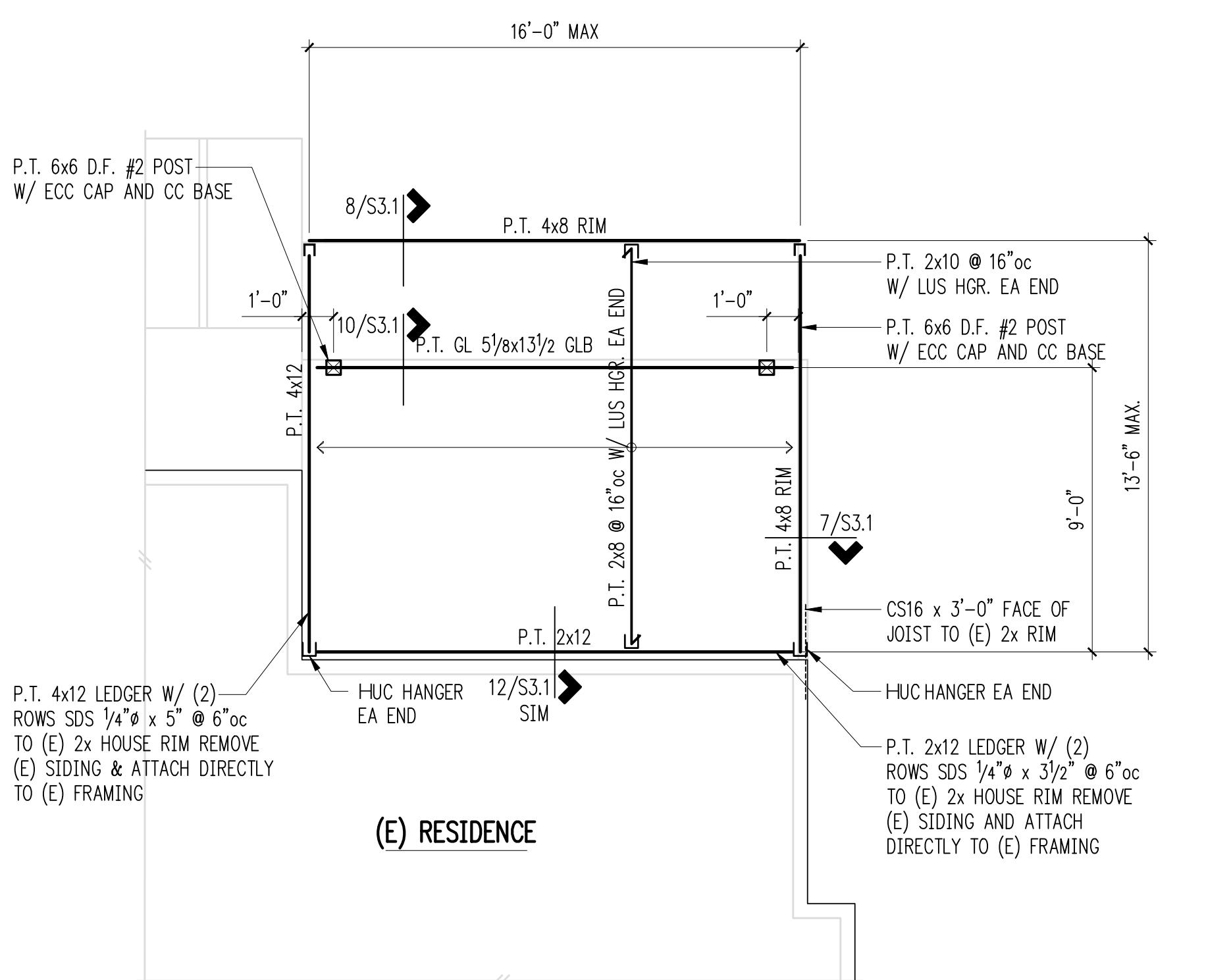
Roof Framing Plan

Scale: $\frac{1}{4}$ " = 1'-0"



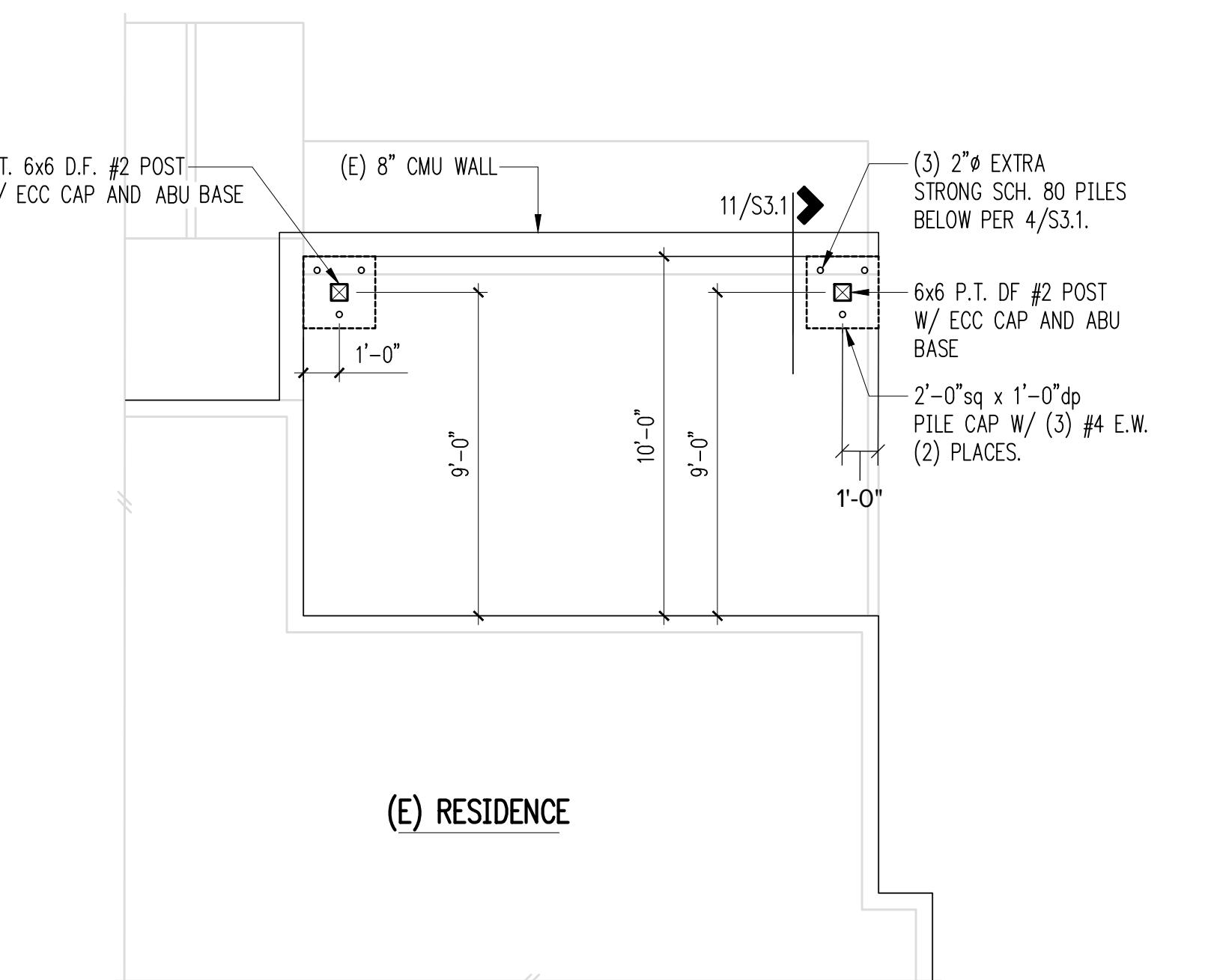
Upper Deck Framing Plan

Scale: $\frac{1}{4}$ " = 1'-0"



Lower Deck Framing Plan

Scale: $\frac{1}{4}$ " = 1'-0"



(E) RESIDENCE

Foundation Plan

Scale: $\frac{1}{4}$ " = 1'-0"

Framing Plan Notes

- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
- ALL POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE CONTINUOUS FULL BEARING THROUGH FLOORS TO THE FOUNDATION.
- DECKING SHALL BE P.T. 5/4" CEDAR OR EQUIVALENT DECK BOARDS, MAX. WEIGHT OF SELECTED DECKING SHOULD NOT EXCEED 3 LBS/FT.
- ALL EXTERIOR CONNECTION HARDWARES EXPOSING TO WEATHER SHALL BE GALVANIZED OR ZMAX STEEL, REFER TO GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

Foundation Plan Notes

- DO NOT SCALE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
- ALL POSTS ABOVE SHALL BEAR FULLY ON BEAMS OR POSTS BELOW AND SHALL HAVE CONTINUOUS FULL BEARING THROUGH FLOORS TO THE FOUNDATION.
- THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 18" MINIMUM BELOW GRADE.
- MINIMUM EMBEDMENT OF PIN PILES SHALL BE 10'-0" BELOW GRADE.

PROJECT TITLE:
Burner Deck
3932 NE 157th
Lake Forest Park, WA 98155

ARCHITECT:
Sandall Norrie Architects
603 Stewart Street, 711
Seattle, Washington 98101
PH 206-343-9538

ISSUE:
Permit

SHEET TITLE:
**Structural
Floor Plans**

SCALE:
 $\frac{1}{4}$ = 1'-0" U.N.O.
DATE:
11/11/2022

PROJECT NO:
13063-2022-01

SHEET NO:

S2.1



DRAWN: BJH
DESIGN: LTN
CHECKED: RCG
APPROVED: RCG

1 Typical Header Support w/2 Bearing Studs

Diagram showing a header support system. It consists of a header beam supported by two vertical studs. The studs are connected to a base plate. The base plate is secured to a concrete foundation. The header beam is labeled 'TYP. DOUBLE TOP PLATE' and 'A35'. The studs are labeled '(6)16d'. The base plate is labeled 'BEAM OR HEADER PER PLAN' and 'A35'. The foundation is labeled 'PROVIDE POST PER PLAN'.

2 Typical Pipe Pile Assembly Schedule

Typical Pipe Pile Assembly

PART	PIPE
PIPE PILE	2" SCH 80 PIPE 2.375" O.D.
TOP PLATE	.375" x 4" OR .50" x 6" (COMPRESSION FIT TOP PLATE)
TOP PLATE	1.5" SCH 40 x 5" ASTM A53 GRADE A PIPE (TOP PLATE)
PIPE	2" SCH 80 (.218") ASTM A53 GRADE A PIPE (TYP. 10.5' LENGTHS)
COUPLING SLEEVE	1.5" SCH 80 (.200") x 10" ASTM A53 GRADE A PIPE (COUPLING SLEEVE)
COUPLING RING	2" SCH 80 (.218") x 1.25" ASTM A53 GRADE A PIPE (COUPLING RING)

NOTE: CUT OFF PILE AT APPROPRIATE ELEVATION IN FTG. & HAMMER CAP ONTO TOP OF PILE

NOTE: SPLICE PIPE PILES BY HAMMERING COUPLER INTO END OF SECTION

3 Typical Footing Detail

Diagram showing a square concrete footing. The dimensions are 6' x 6'. The thickness is 2'-0". The footing is labeled 'PLINTH PER PLAN' and '2'-0"sq x 1'-0"dp FTG.'. The label 'E COL.' is also present.

4 Typical Decking Detail

5 Typical Deck w/ Guardrail Detail

Diagram showing a deck structure with a guardrail. The guardrail is labeled 'DECK GUARDRAIL PER ARCH.'. The joists are labeled 'P.T. DECK JOISTS PER PLAN'. The posts are labeled 'DTT2 EA. GUARDRAIL POST'. The blocking is labeled '(2) 1/2" HDG BOLTS EA. GUARDRAIL POST'. The rim is labeled 'P.T. 4x RIM PER PLAN'. The bays are labeled '(2) BAYS FULL-DEPTH 2x BLKG. W/ A35 EA. END OF EA. BLOCK'.

6 Typical Cantilevered Deck w/ Guardrail Detail

Diagram showing a cantilevered deck detail. The guardrail is labeled 'DECK GUARDRAIL per arch. (3'-6" max.)'. The joists are labeled 'P.T. DECK JOISTS PER PLAN'. The posts are labeled 'DTT2 EA. GUARDRAIL POST'. The bolts are labeled '(2) 1/2" HDG BOLTS EA. GUARDRAIL POST'. The rim is labeled 'CONT. P.T. 4x RIM'. The blocking is labeled 'P.T. 2x BLOCKING'. The joist is labeled 'A35 @ 48" oc'. The joist is labeled '(2) 16d EA. JOIST'.

7 Typical Header Beam

Diagram showing a header beam detail. The beam is labeled 'BEAM PER PLAN'. The joists are labeled 'JOISTS AND SHEATHING PER PLAN'. The fasteners are labeled '(3)16d EA. BLOCK' and '(2)16d TOENAILS THRU EA. JOIST'. The joist is labeled '8d @ 6" oc INTO 2x BLOCKING'.

8 Typical Deck Detail

Diagram showing a deck detail. The joists are labeled 'P.T. DECK JOISTS PER PLAN'. The ledger is labeled 'P.T. 2x LEDGER TO MATCH DECK FRAMING (U.N.O.) W/ (2) ROWS SDS 3/4x3 1/2 SCREWS @ 6" oc, STAGGERED'. The hanger is labeled 'LUS SERIES HANGER'. The framing is labeled 'DECKING PER ARCH.'. The joists are labeled 'P.T. DECK JOISTS PER PLAN'. The ledger is labeled 'WATERPROOFING PER ARCH.'. The joist is labeled '(E) FLOOR/FOUNDATION FRAMING PER PLAN'. The joist is labeled 'NOTE: SDWS22x4" SCREWS MAY BE USED IN LIEU OF SDS SCREWS @ CONTRACTOR'S OPTION'. The joist is labeled 'ALL FASTENERS INTO PRESSURE TREATED WOOD SHALL BE GALV. OR STAINLESS STEEL PER GENERAL NOTES'. The joist is labeled 'WOOD FRAMING BELOW AT SIM'.

9 Typical Deck Ledger Detail

Diagram showing a deck ledger detail. The ledger is labeled 'P.T. 2x LEDGER TO MATCH DECK FRAMING (U.N.O.) W/ (2) ROWS SDS 3/4x3 1/2 SCREWS @ 6" oc, STAGGERED'. The joist is labeled 'P.T. DECK JOISTS PER PLAN'. The ledger is labeled 'WATERPROOFING PER ARCH.'. The joist is labeled '(E) FLOOR/FOUNDATION FRAMING PER PLAN'. The joist is labeled 'NOTE: LEDGER FASTENER SPACING MAY BE OFFSET UP TO 3" TO AVOID INTERFERENCE W/ JOIST HANGER'. The joist is labeled '4" min. 6" oc 5" max. 1/2" min.'.

10 Typical Deck Ledger Detail

Diagram showing a deck ledger detail. The ledger is labeled 'P.T. 2x LEDGER TO MATCH DECK FRAMING (U.N.O.) W/ (2) ROWS SDS 3/4x3 1/2 SCREWS @ 6" oc, STAGGERED'. The joist is labeled 'P.T. DECK JOISTS PER PLAN'. The ledger is labeled 'WATERPROOFING PER ARCH.'. The joist is labeled '(E) FLOOR/FOUNDATION FRAMING PER PLAN'. The joist is labeled 'NOTE: LEDGER FASTENER SPACING MAY BE OFFSET UP TO 3" TO AVOID INTERFERENCE W/ JOIST HANGER'. The joist is labeled '4" min. 6" oc 5" max. 1/2" min.'.

11 Typical Deck Detail

Diagram showing a deck detail. The joist is labeled 'P.T. DECK JOISTS PER PLAN'. The ledger is labeled 'P.T. 2x LEDGER TO MATCH DECK FRAMING (U.N.O.) W/ (2) ROWS SDS 3/4x3 1/2 SCREWS @ 6" oc, STAGGERED'. The hanger is labeled 'LUS SERIES HANGER'. The framing is labeled 'DECKING PER ARCH.'. The joist is labeled 'P.T. DECK JOISTS PER PLAN'. The ledger is labeled 'WATERPROOFING PER ARCH.'. The joist is labeled '(E) FLOOR/FOUNDATION FRAMING PER PLAN'. The joist is labeled 'NOTE: SDWS22x4" SCREWS MAY BE USED IN LIEU OF SDS SCREWS @ CONTRACTOR'S OPTION'. The joist is labeled 'ALL FASTENERS INTO PRESSURE TREATED WOOD SHALL BE GALV. OR STAINLESS STEEL PER GENERAL NOTES'. The joist is labeled 'WOOD FRAMING BELOW AT SIM'.

12 Typical Deck Ledger Detail

Diagram showing a deck ledger detail. The ledger is labeled 'P.T. 2x LEDGER TO MATCH DECK FRAMING (U.N.O.) W/ (2) ROWS SDS 3/4x3 1/2 SCREWS @ 6" oc, STAGGERED'. The joist is labeled 'P.T. DECK JOISTS PER PLAN'. The ledger is labeled 'WATERPROOFING PER ARCH.'. The joist is labeled '(E) FLOOR/FOUNDATION FRAMING PER PLAN'. The joist is labeled 'NOTE: LEDGER FASTENER SPACING MAY BE OFFSET UP TO 3" TO AVOID INTERFERENCE W/ JOIST HANGER'. The joist is labeled '4" min. 6" oc 5" max. 1/2" min.'.

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