

JOSEPHINE'S MODERN AMERICAN BISTRO

503 N HUMPHREYS ST.

Flagstaff, Arizona

JOSEPHINE'S RESTAURANT
503 N HUMPHREYS ST.
Flagstaff, Arizona

CONSTRUCTION DOCUMENTS

GENERAL NOTES:

1. THESE NOTES ARE APPLICABLE TO ALL DRAWINGS IN THIS SET.
2. THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF THE ARCHITECT AND SHALL NOT BE USED ON ANY OTHER WORK EXCEPT BY WRITTEN AGREEMENT WITH THE ARCHITECT.
3. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS.
4. ONLY WRITTEN DIMENSIONS SHALL BE USED. DO NOT SCALE DRAWINGS. DIMENSIONS SHALL BE VERIFIED ON THE JOB SITE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY WORK.
5. THESE DOCUMENTS ARE INTENDED TO DEFINE THE SCOPE OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL DESIGN WORK REQUIRED FOR THEIR RESPECTIVE TRADES AS WELL AS ADHERING TO ALL APPLICABLE CODES AND STANDARD ACCEPTED PRACTICES FOR THEIR RESPECTIVE TRADES.
6. ALL MATERIALS TO BE SUPPLIED OR REQUIRING OFF SITE FABRICATION WILL BE SUBMITTED TO THE ARCHITECT IN THE FORM OF SHOP DRAWINGS AND/OR CATALOG CUTS FOR REVIEW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THIS INFORMATION IN A TIMELY MANNER SO AS NOT TO IMPEDE THE PROGRESS OF THE WORK.
7. ALL WOOD COMING IN CONTACT WITH CONCRETE OR EARTH SHALL BE TREATED LUMBER.
8. VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO SAW CUTTING AND / OR TRENCHING.
9. IT IS THE INTENT OF THESE CONTRACT DOCUMENTS TO DEFINE A COMPLETE FINISHED FACILITY / PROJECT. ANY MATERIAL, SYSTEM, EQUIPMENT OR ASSEMBLY WHICH NORMALLY WOULD BE REQUIRED SHALL BE PROVIDED AND FINISHED AS IF SPECIFICALLY NOTED.
10. COORDINATE WITH ALL TRADES THE LOCATIONS OF SLEEVES OR OTHER PRESET ACCESSORIES INVOLVING OTHER TRADES.
11. ALL PATCH WORK SHALL MATCH EXISTING COLOR, TEXTURE AND MATERIALS.
12. THE STARTING OF WORK BY ANY CONTRACTOR OR SUBCONTRACTOR SHALL BE CONSIDERED PRIMA FACIE EVIDENCE THAT HE HAS INSPECTED AND ACCEPTED ALL CONDITIONS INVOLVED IN HIS WORK AND FINDS THEM SATISFACTORY.
13. THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT LOADS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CHANGES IN SIZE, WEIGHT, AND LOCATION OR ADDITIONAL LOAD TO THOSE INDICATED ON THE DRAWINGS IF APPLICABLE TO THIS PROJECT.
14. BIDDING OF CONTRACT DOCUMENTS BY SUBCONTRACTOR AND GENERAL CONTRACTOR SHALL BE BASED UPON COMPLETE SETS. CONTRACTORS ARE EXPECTED TO HAVE A FULL UNDERSTANDING AND COORDINATION OF ALL TRADES AND CONDITIONS TO BE ENCOUNTERED DURING THE COURSE OF CONSTRUCTION. BIDDING FROM SUB-SETS OF PLANS IS PROHIBITED.
15. ALL DIMENSIONS SHOWN ARE FROM FACE OF FINISHED WALL TO FACE OF FINISHED WALL OR FACE OF CONCRETE UNLESS OTHERWISE INDICATED.
16. WHERE A NUMBERED KEYNOTE SYSTEM IS USED, NOT ALL KEYNOTES LISTED ON A PARTICULAR SHEET ARE KEYED ON THAT SHEET.

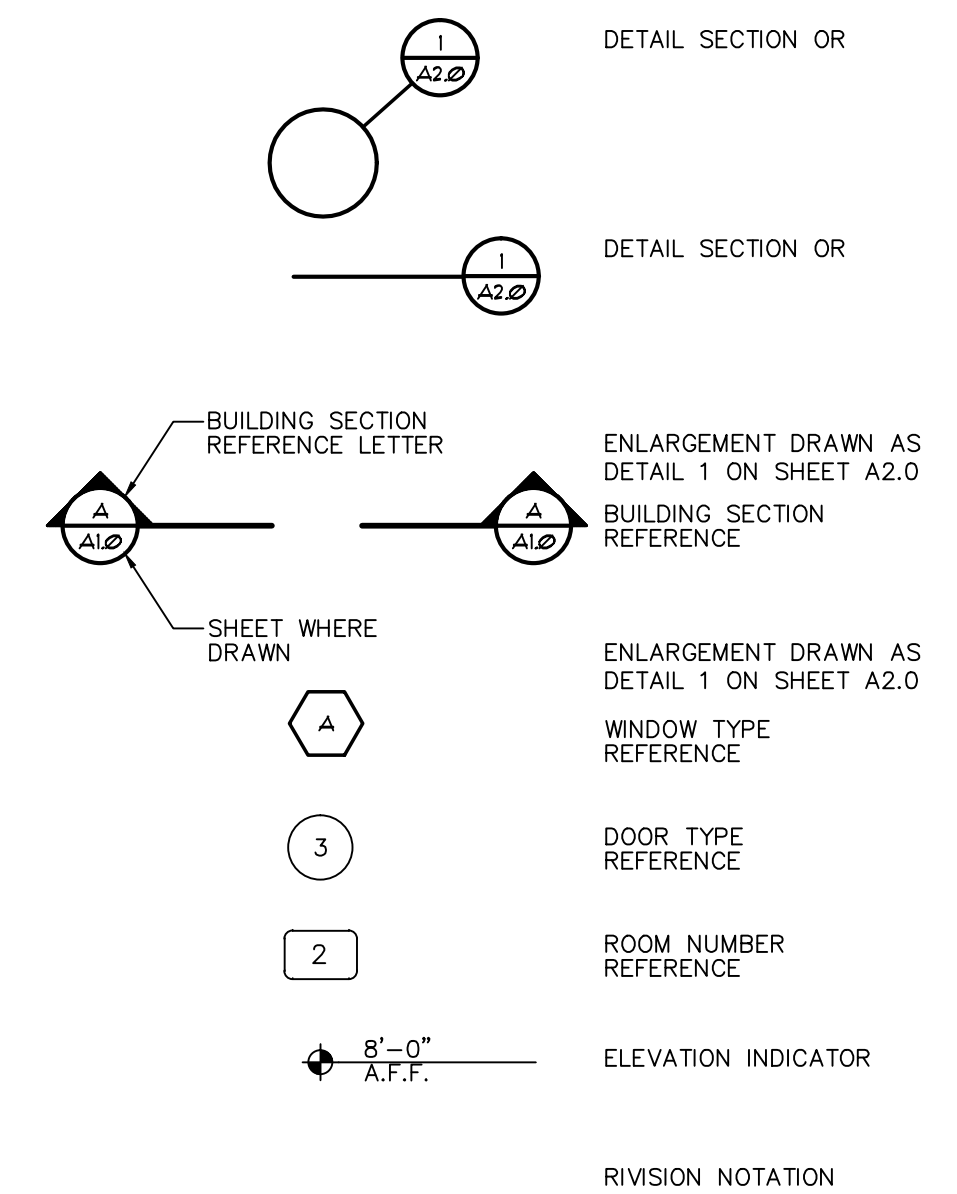
PROJECT INDEX

- C1.0** COVER SHEET
- GPS1.0** ARCHITECTURAL SITE PLAN
- ARCHITECTURAL**
- A1.0** FLOOR PLAN
- A2.0** EXTERIOR AND INTERIOR ELEVATIONS
- A3.0** FOUNDATION PLAN, SECTIONS, AND DETAILS
- STRUCTURAL**
- S1.1** GENERAL STRUCTURAL NOTES
- S1.2** TYPICAL DETAILS
- S2.1** FOUNDATION AND FRAMING PLANS
- S3.1** FOUNDATION, FRAMING, AND ROOF DETAILS

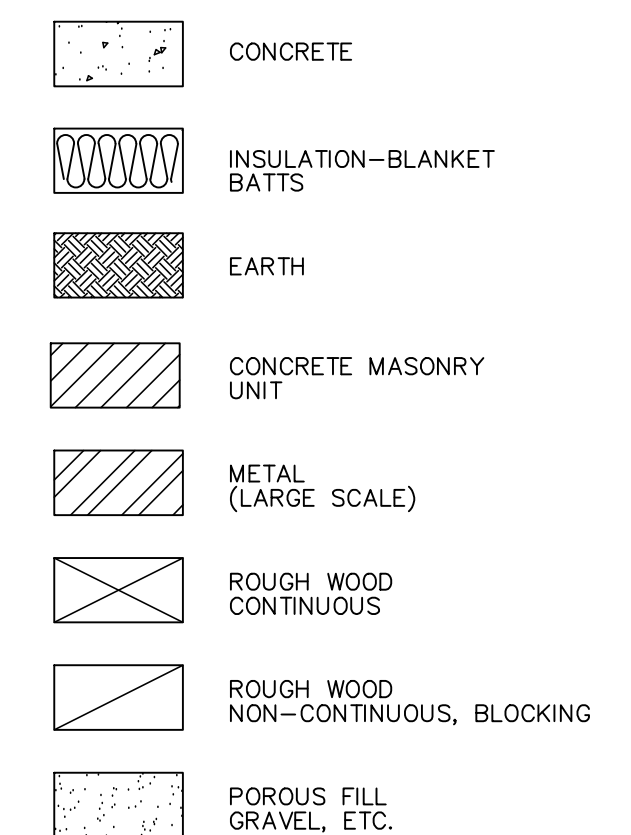
SCOPE OF WORK NARRATIVE:

PROPOSED NEW COVERED OUTDOOR DECK ADDITION ON SOUTH ELEVATION OF THE EXISTING BUILDING. = 142 SQ. FT.

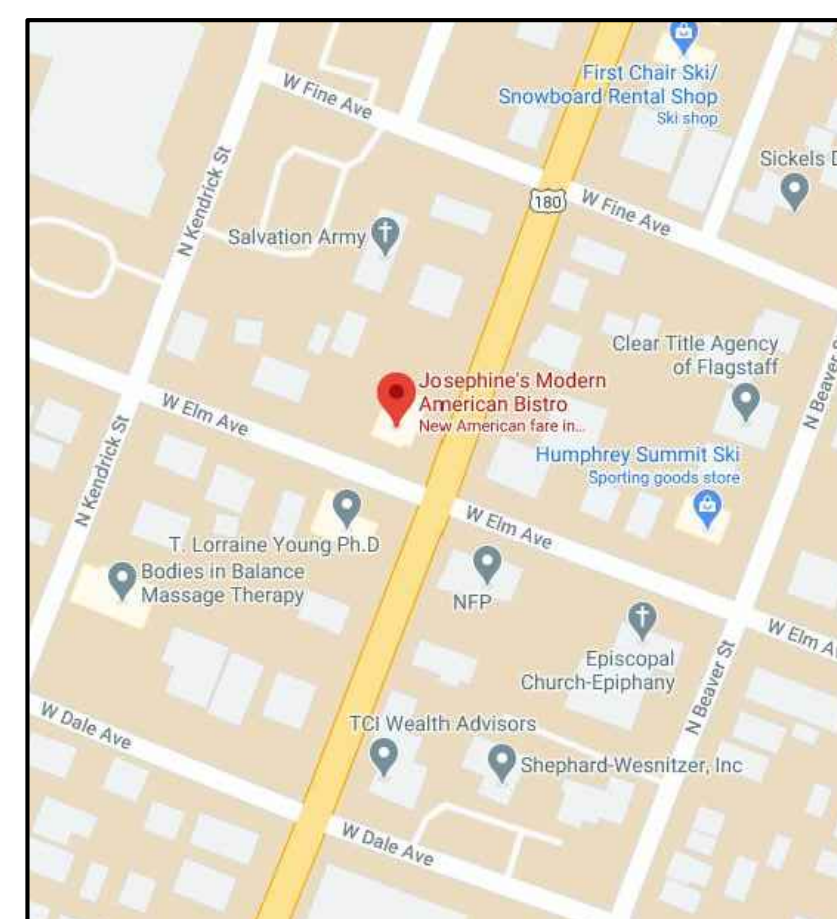
SYMBOLS



MATERIALS



VICINITY MAP



PROJECT DIRECTORY

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APPLICABLE BUILDING CODES:

- 2018 International Building Code (IBC)
- 2018 International Residential Code (IRC)
- 2018 International Existing Building Code (IEBC)
- 2018 International Mechanical Code (IMC)
- 2018 International Plumbing Code (IPC)
- 2018 International Fuel Gas Code (IFGC)
- 2018 International Energy Conservation Code (IECC)
- 2018 International Solar Energy Provisions (ISEP)
- 2017 NFPA 70 / National Electrical Code (NEC)

PROJECT INFORMATION

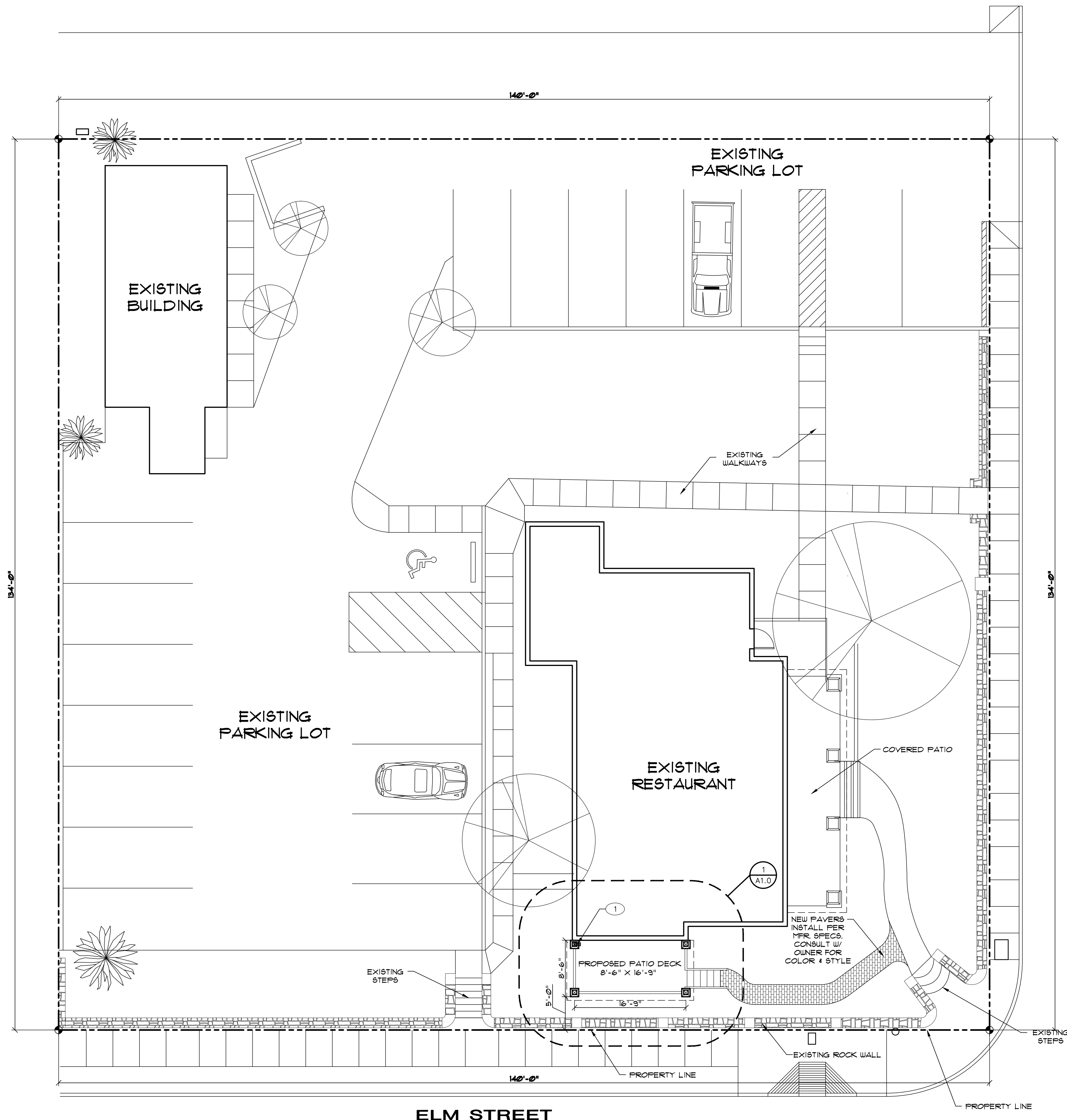
OCCUPANCY: A-2 - RESTAURANT
APN: 10020003

TYPE OF CONSTRUCTION: V-A

ZONING: DOWNTOWN T-6 DISTRICT ESTABLISHED



PAUL BUSTAMANTE ARCHITECT 16 EAST ROUTE 66 SUITE 202, FLAGSTAFF, ARIZONA 86001 (928) 774-3444



General Notes:

1. ALL WORK SHALL BE IN STRICT CONFORMITY WITH THE IBC 2018 OR CURRENT EDITION AND WITH ALL APPLICABLE LAWS, CODES AND ORDINANCES OF THE CITY, COUNTY, STATE, UTILITY COMPANIES AND ANY OTHER GOVERNING AGENCIES.
2. THE CONTRACT WORK INCLUDES FURNISHING ALL MATERIALS, EQUIPMENT, TOOLS, LABOR AND SERVICES NECESSARY FOR THE COMPLETION OF THE PROJECT.
3. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS ON THE JOB SITE AS RELATED TO THE CONSTRUCTION DOCUMENTS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO CONSTRUCTION.
4. PROVIDE SAFE BARRICADES, SIGNALS, FENCES, ETC. AS REQUIRED FOR THE SAFE EXECUTION OF THE WORK AND COMPLIANCE WITH LOCAL AND ALL APPLICABLE LAWS. ALL WORK DONE ON THE SITE UNDER THIS CONTRACT SHALL BE DONE IN AREAS DESIGNATED BY THE DRAWINGS.
5. OVERLAPPING/CONFLICTING REQUIREMENTS: MOST STRINGENT APPLIES AND WILL BE ENFORCED, UNLESS MORE DETAILED LANGUAGE WRITTEN DIRECTLY INTO THE CONTRACT DOCUMENTS CLEARLY INDICATES THAT A LESS STRINGENT REQUIREMENT IS ACCEPTABLE. REFER UNCERTAINTIES TO ARCHITECT.

Key Notes:

1. CONTRACTOR TO THOROUGHLY WALK THE SITE AND LOCATE ANY UTILITIES THAT MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION: INCLUDING LANDSCAPE IRRIGATION SYSTEMS.

N. HUMPHREYS STREET

ELM STREET

1 SITE PLAN SCALE: 1/8" = 1'-0"



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Revisions	By

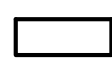
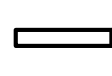
Drawn: LJ
 Date: February 2, 2021
 Job No:

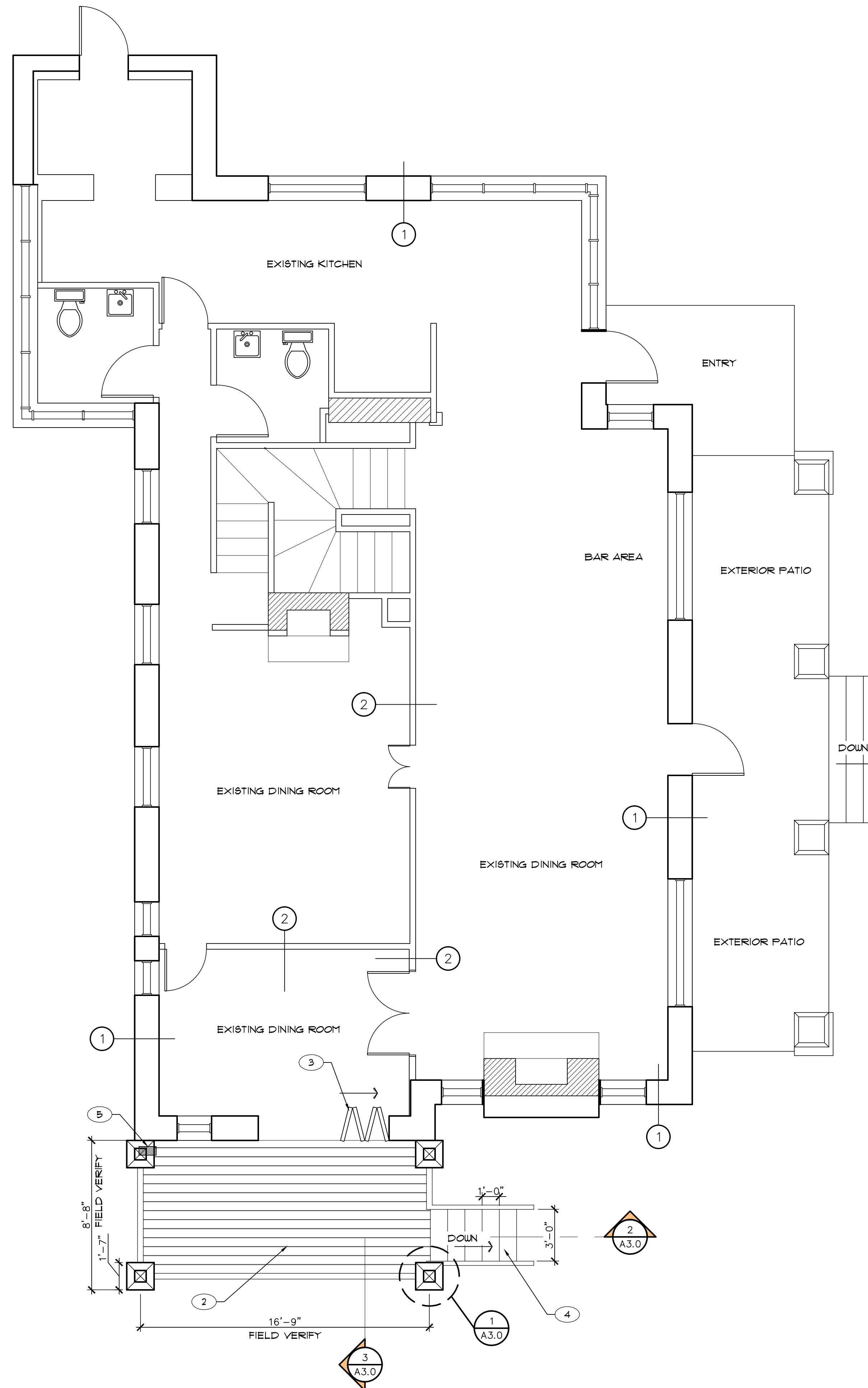
SHEET
ASP 1.0

ARCHITECTURAL
 SITE PLAN
 SCALE: 1/8" = 1'-0"

CALL TWO WORKING DAYS BEFORE YOU DIG
 1-800-STAKE-IT
 1-800-782-5348
 (OUTSIDE MARICOPA COUNTY)

WALL TYPES:

- ①  EXISTING EXTERIOR WALL ASSEMBLY TO REMAIN.
- ②  EXISTING INTERIOR PARTITION TO REMAIN.



① **FLOOR PLAN**
SCALE: 1/4" = 1'-0"

General Notes:

1. ALL WORK SHALL BE IN STRICT CONFORMITY WITH THE IBC 2012 OR CURRENT EDITION AND WITH ALL APPLICABLE LAWS, CODES AND ORDINANCES OF THE CITY, COUNTY, STATE, UTILITY COMPANIES AND ANY OTHER GOVERNING AGENCIES.
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Building Demolition:

1. THE TERM "DEMOLITION" OR "REMOVE", AS USED HEREIN, INCLUDES THE REMOVAL OF EXISTING OBJECTS AS STATED ON DRAWINGS, PLUS SUCH OTHER WORK AS REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION.
2. USE ALL MEANS NECESSARY TO PROTECT EXISTING OBJECTS REQUIRED TO REMAIN AND, IN THE EVENT OF DAMAGE, IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENTS NECESSARY.
3. THE DRAWINGS DO NOT PURPORT TO SHOW ALL OBJECTS EXISTING WITHIN THE BUILDING OR AT THE SITE. CONTRACTOR SHALL VISIT THE SITE TO VERIFY AND REPORT DISCREPANCIES TO THE ARCHITECT IN WRITING PRIOR TO CONSTRUCTION.
4. BEFORE STARTING OPERATIONS, DISCONNECT ALL UTILITY SERVICES DESIGNATED TO BE REMOVED, PERFORMING ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY COMPANY INVOLVED. PRESERVE IN OPERATING CONDITION ALL ACTIVE UTILITIES DESIGNATED TO REMAIN.
5. CONTRACTOR TO EXAMINE THE SITE AND THE CONTRACT DOCUMENTS AND REPORT ALL APPARENT CONFLICTS, DISCREPANCIES AND INCONSISTENCIES RELATIVE TO THE WORK OF THIS SECTION TO THE ARCHITECT.
6. PERFORM WORK IN A MANNER THAT WILL KEEP THE EXISTING BUILDING WEATHER TIGHT, DUST FREE, FIRE PROOF AND SECURE AT ALL TIMES. DO NOT COMMENCE DEMOLITION UNTIL PROTECTION HAS BEEN PROVIDED.

Key Notes:

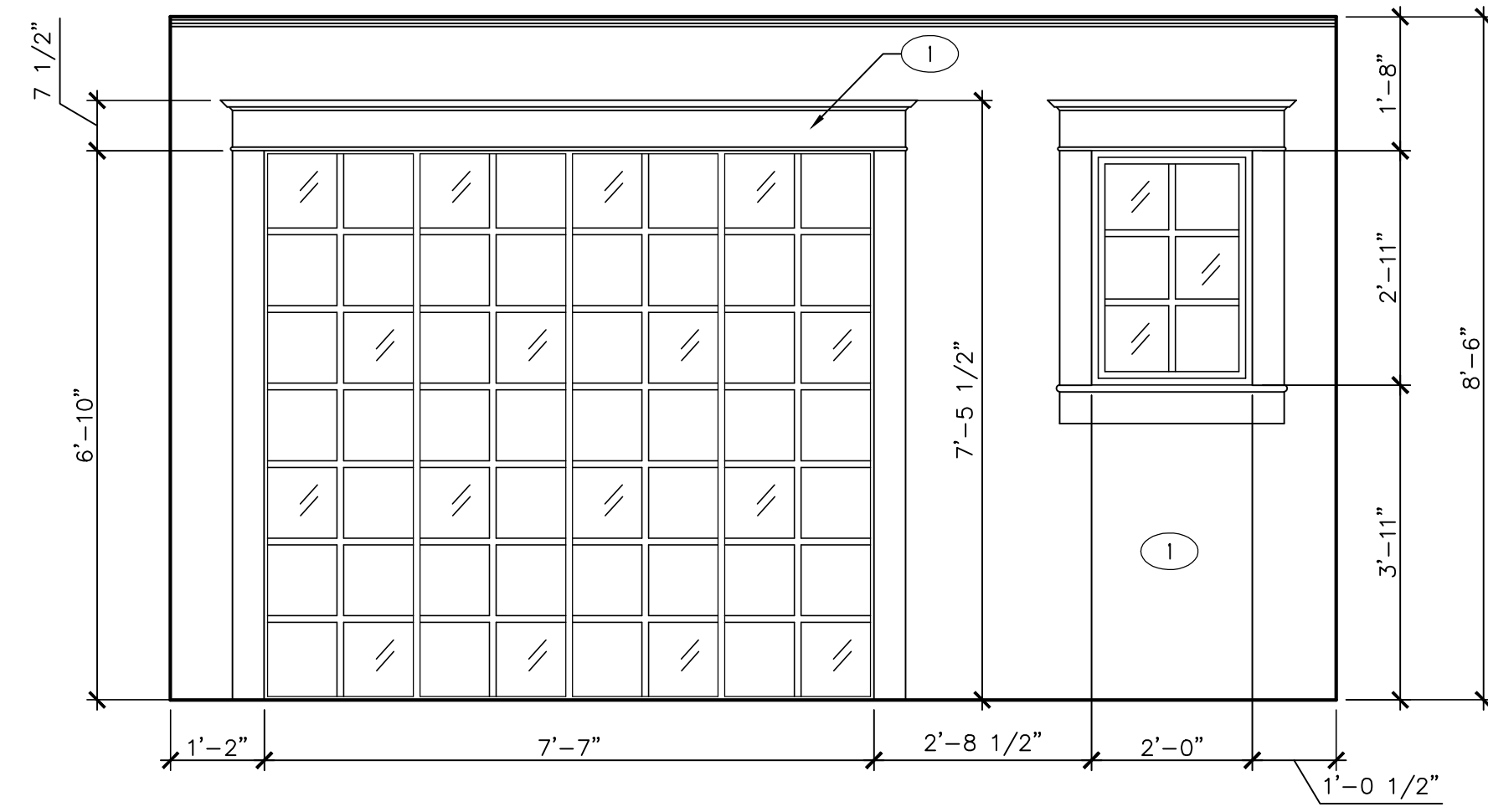
- ① REMOVE EXISTING WINDOW, NECESSARY TRIM, EXTERIOR STONE AND WALL FRAMING BELOW THE WINDOW. VERIFY ANY UTILITIES WITHIN THE WALL AND RELOCATE AS NECESSARY.
- ② NEW TREX OR EQUAL EXTERIOR DECKING. CONSULT WITH OWNER FOR COLOR AND TYPE. INSTALL PER MFR SPECS.
- ③ NEW FOLDING DOOR. CONSULT WITH OWNER, INSTALL PER MFR SPECS. (VERIFY OPENING)
- ④ NEW STAIRS, 12" TREADS WITH MAXIMUM 1" RISERS. CONTRACTOR TO FIELD VERIFY ON SITE FOR THE AMOUNT OF STAIRS NEEDED.
- ⑤ EXISTING LANDSCAPE IRRIGATION LOCATION. RELOCATE BOX AS NECESSARY. VERIFY UNDERGROUND DRIP SYSTEM & RELOCATE AS NECESSARY.

Josephines Modern American Bistro
503 N Humphreys St
Flagstaff, Arizona

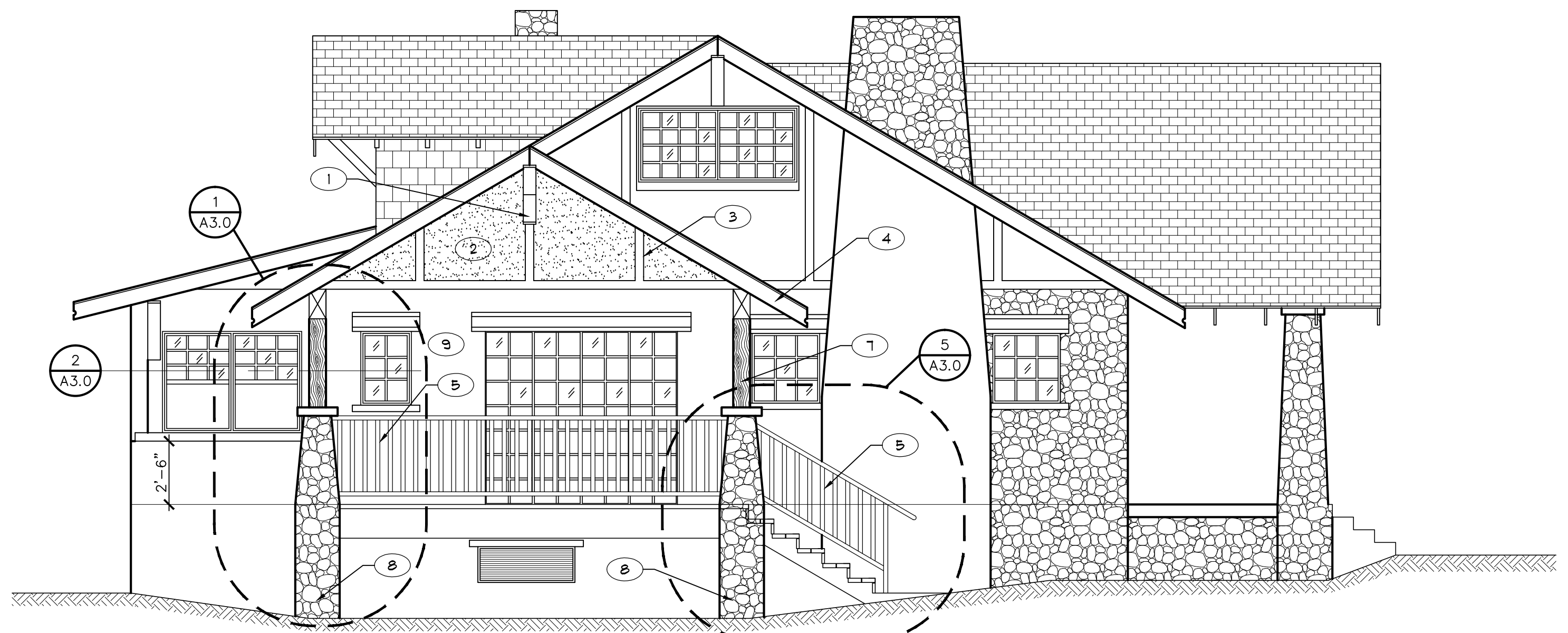


Revisions	By

Drawn: LJ
Date: February 2, 2021
Job No:



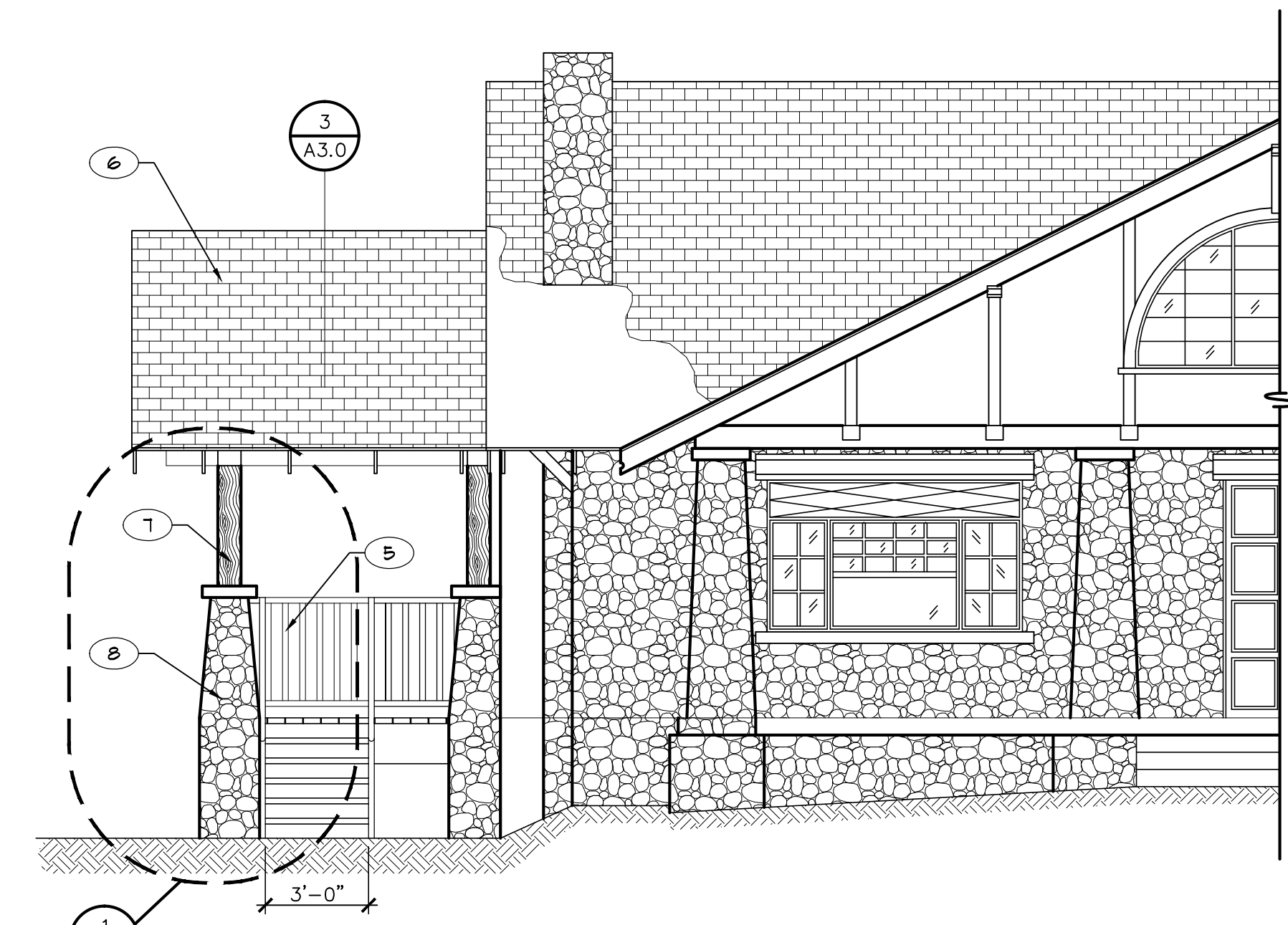
4 Interior Elevation
SCALE: 1/2" = 1'-0"



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

KEY NOTES:

- 1 CORBEL (REUSE EXISTING)
- 2 EIFS STUCCO AT EAVE. COLOR TO MATCH EXISTING. INSTALL PER MFR. SPECS.
- 3 2"x4" WOOD TRIM. PAINT TO MATCH EXISTING.
- 4 2"x8" OR 10" FASCIA TO MATCH EXISTING. DETAIL END OF RAFTERS TO MATCH EXISTING.
- 5 METAL RAILING, 4" MAX SPACING.
- 6 ASPHALT SHINGLES TO MATCH EXISTING. INSTALL PER MFR. SPECS.
- 7 8" ROUGH SAWN POST. STAIN TO MATCH EXISTING. VERIFY COLOR WITH OWNER.
- 8 MALPAIS STONE VENEER COLUMNS TO MATCH EXISTING.
- 9 REPAIR, PATCH, AND MATCH TRIM, PAINT, AND WALL TEXTURE TO EXISTING.



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



3 WEST ELEVATION
SCALE: 1/4" = 1'-0"



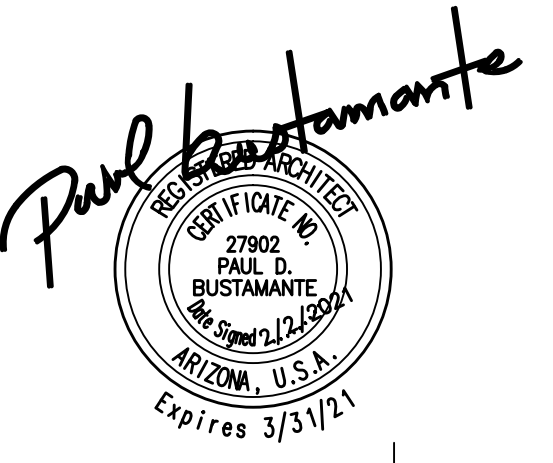
REMOVE WALL ASSEMBLY BELOW WINDOW. SALVAGE (IF POSSIBLE) WAINSCOTT AND TRIM TO BE REUSED



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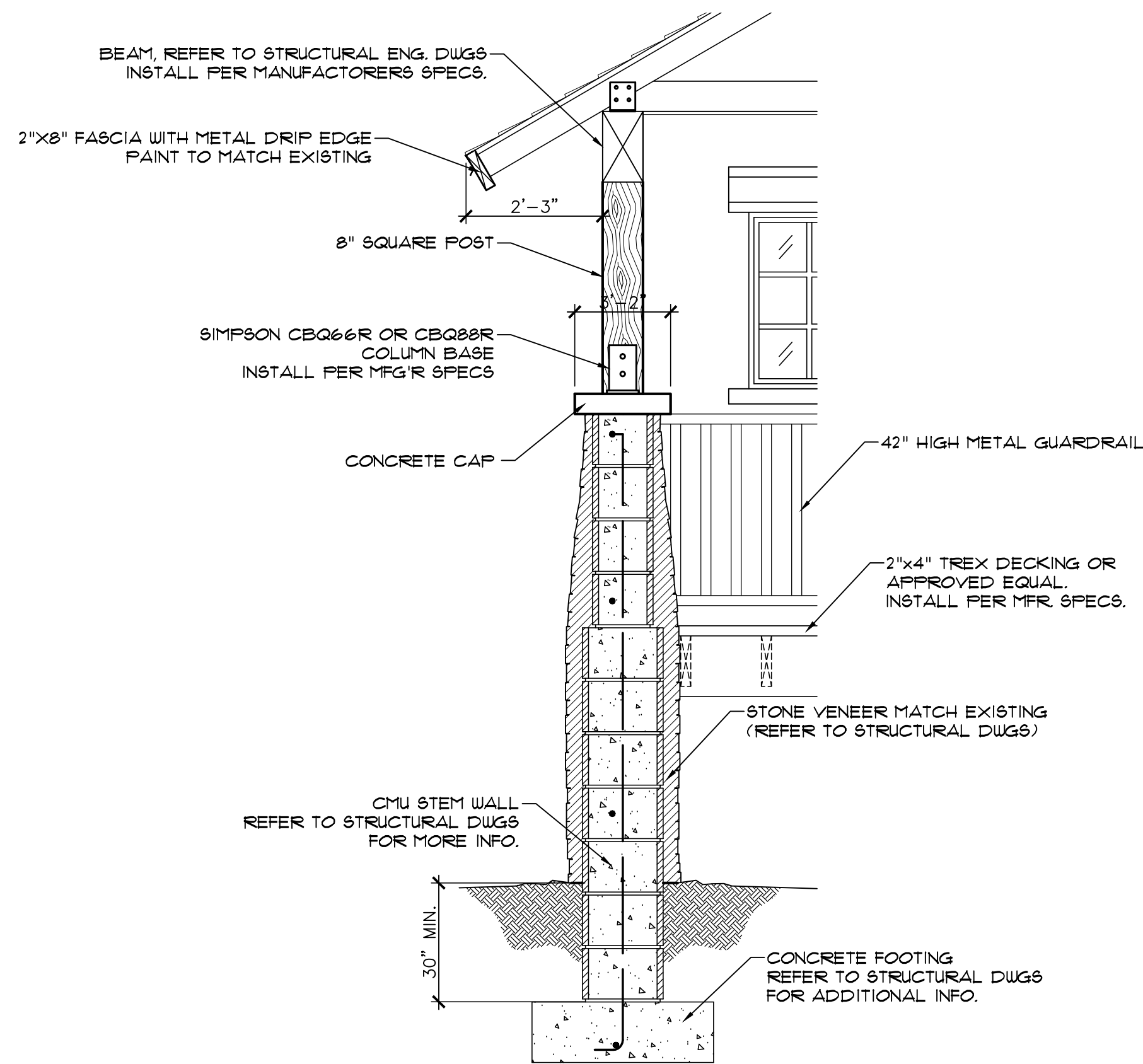


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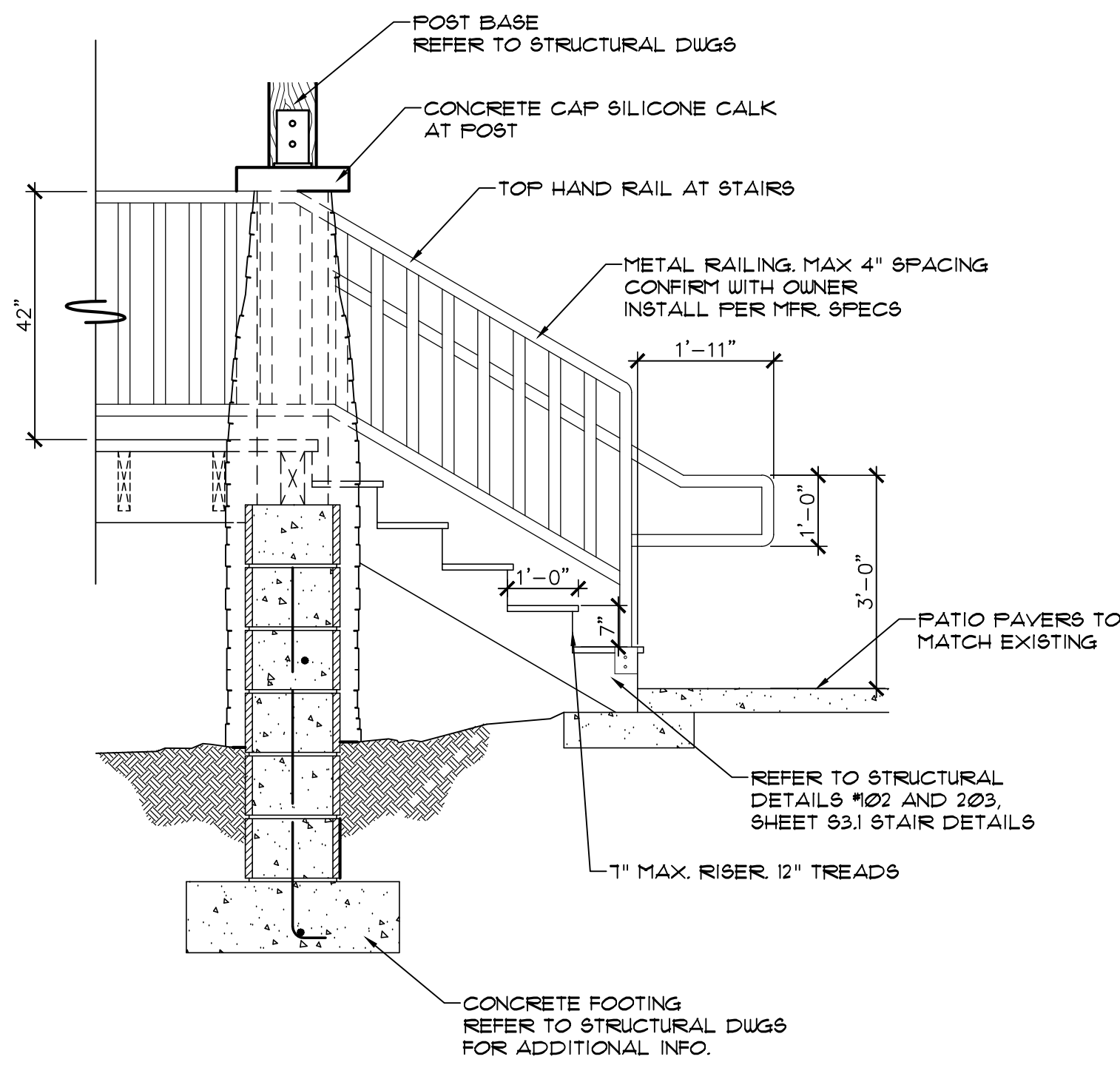
Drawn: LJ
Date: February 2, 2021
Job No:

SHEET
A2.0

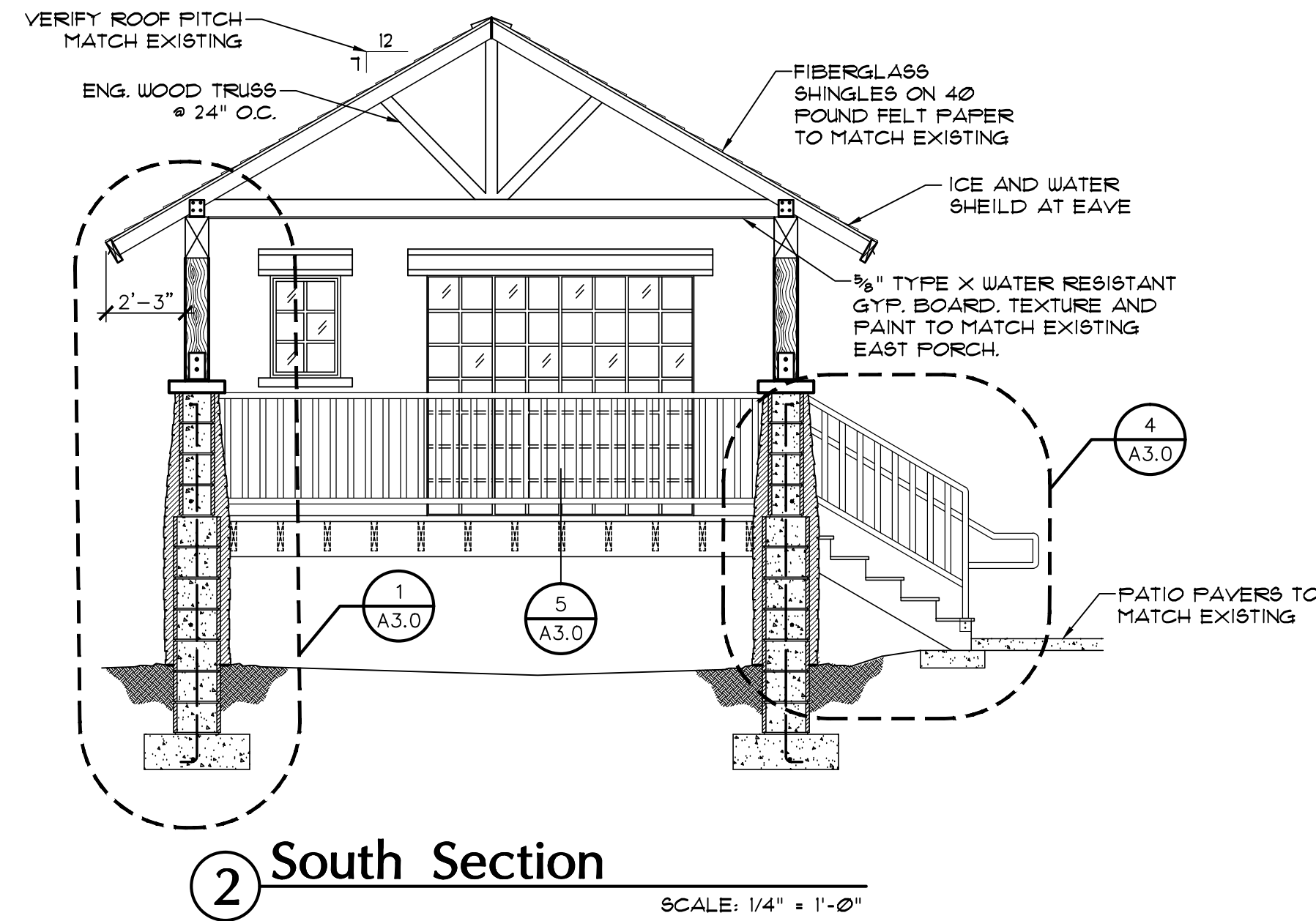
Interior and
Exterior Elevations
SCALE: as noted



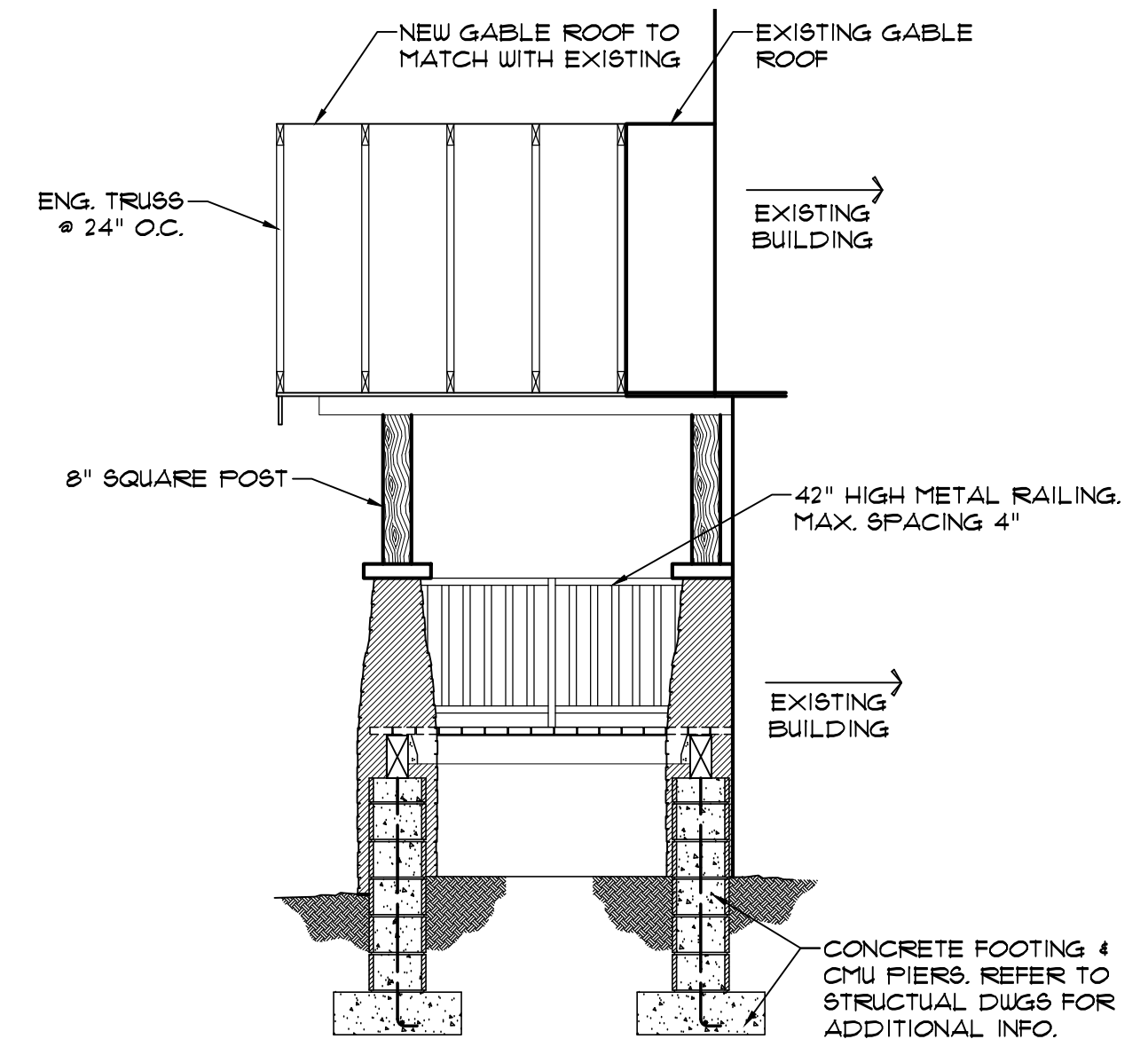
1 Column and Post Detail
SCALE: 1/2" = 1'-0"



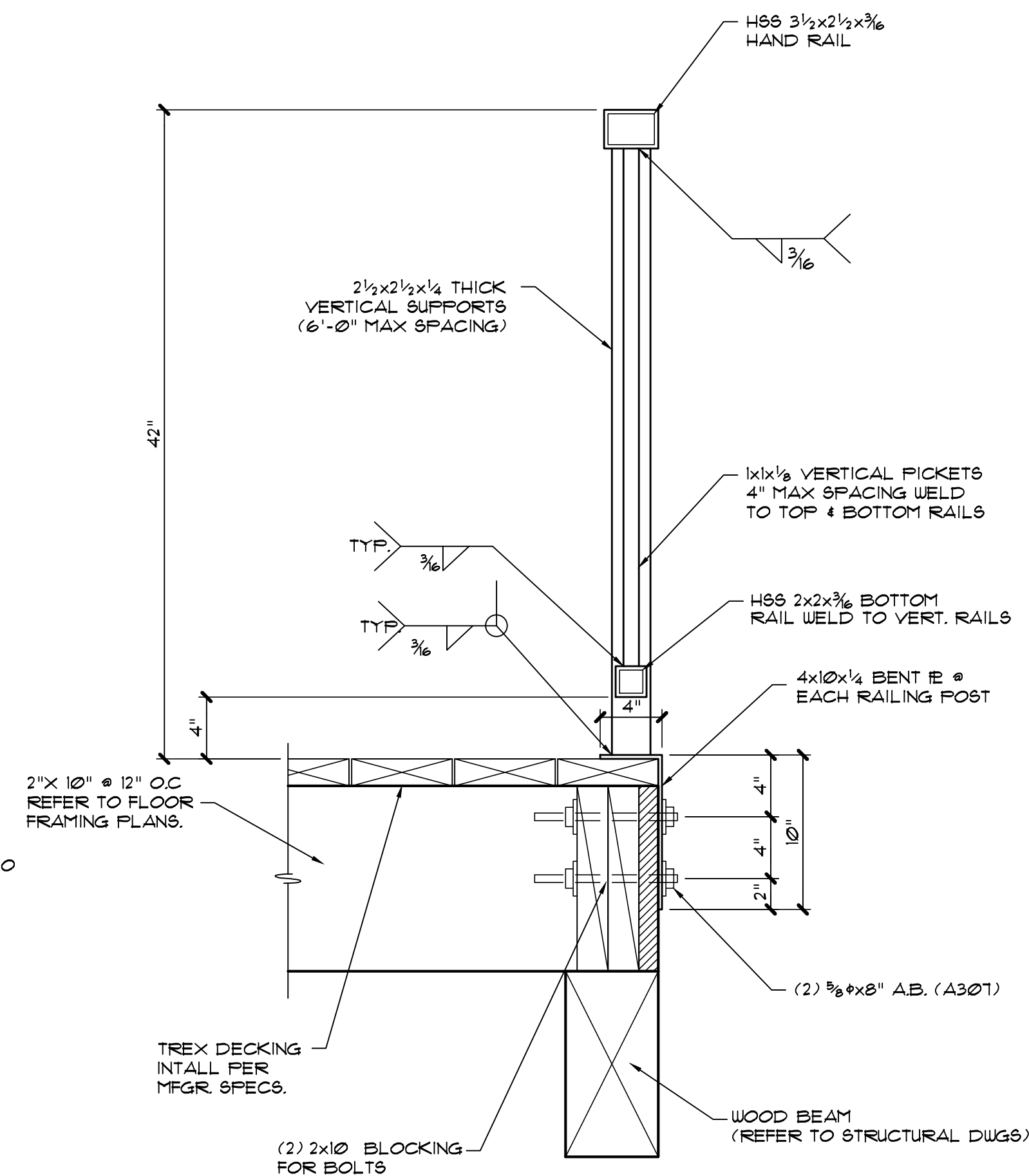
4 Stairs Detail
SCALE: 1/2" = 1'-0"



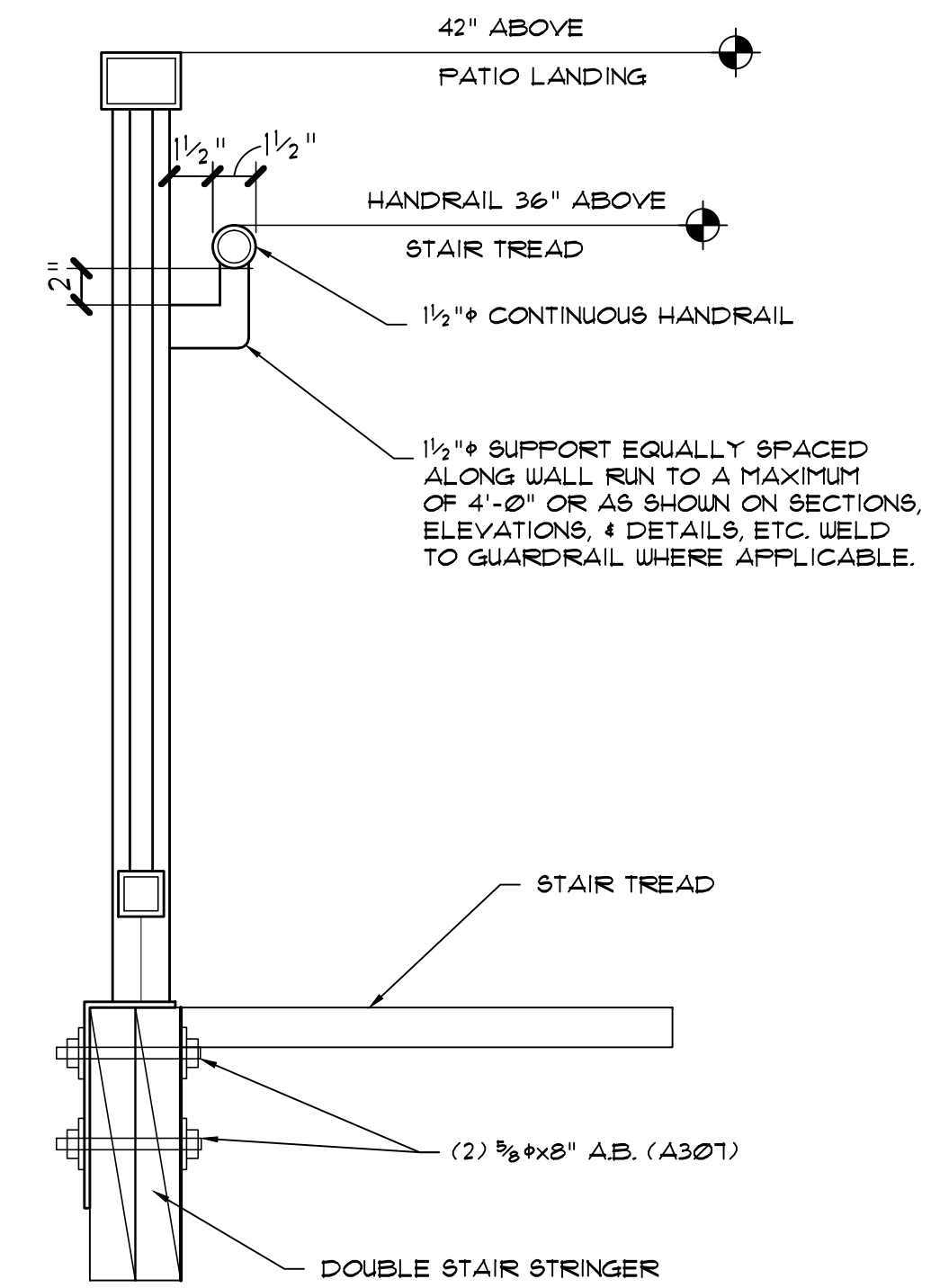
2 South Section
SCALE: 1/4" = 1'-0"



3 East Section
SCALE: 1/4" = 1'-0"



5 Railing Detail
SCALE: 1 1/2" = 1'-0"



6 Hand Railing Detail
SCALE: 1 1/2" = 1'-0"



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Revisions	By

Drawn: LJ
Date: February 3, 2021
Job No:

SHEET
A3.0

FOUNDATION PLAN
SECTIONS AND
DETAILS
SCALE: AS NOTED

ABBREVIATIONS ABBREV1

NOTE: ABBREVIATIONS MAY OR MAY NOT HAVE PERIODS, BUT SHALL BE READ AS SAME.

A.B.	ANCHOR BOLT
A.B.C.	AGGREGATE BASE COURSE
ACI	AMERICAN CONCRETE INSTITUTE
A/C	AIR CONDITIONER
A.F.F.	ABOVE FINISHED FLOOR
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
AISI	AMERICAN IRON AND STEEL INSTITUTE
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
ALT.	ALTERNATE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
ARCH'L	ARCHITECTURAL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
A.W.H.S.	AUTOMATIC WELDED HEADED FASTENERS
A.W.T.S.	AUTOMATIC WELDED THREADED STUDS
BM	BENCHMARK
B.F.F.	BELOW FINISHED FLOOR
B.K.	BLOCK
B.O.M	BOTTOM OF MASONRY
B.O.D.	BOTTOM OF DECK
B.O.F.	BOTTOM OF FOOTING
BRG	BEARING
C	CAMBER
C.C.	CENTERLINE TO CENTERLINE
CFS	COLD FORMED STEEL
C.F.	CENTERLINE OF FINISH
C.I.P.	CAST IN PLACE CONCRETE
C.L.	CENTERLINE
C.L.B.	CENTERLINE OF BEAM
C.L.C.	CENTERLINE OF COLUMN
C.L.F.	CENTERLINE OF FOOTING
C.L.W.	CENTERLINE OF WALL
CLW	CLEARANCE
CONC	CONCRETE
CONC C.J.	CONCRETE CONTROL JOINT
CONC S.J.	CONCRETE SAWCUT JOINT
C.M.U.	CONCRETE MASONRY UNIT
CONN	CONNECTION
CONT	CONTINUOUS
CRS	CORROSION RESISTING STEEL
D.F. (D.F.L.)	DOUGLAS FIR LARCH
DIA	DIAMETER
DN	DOWN
DWG(S)	DRAWING(S)
E.C.	END TO CENTERLINE
E.E.	END TO END
E.O.S.	EDGE OF SLAB
E.Q.	EQUAL
EQUIP	EQUIPMENT
EXP. BOLT (E.B.)	EXPANSION BOLT
EXP. JT (E.J.)	EXPANSION JOINT
F.F.	FINISHED FLOOR
F.O.M.	FACE OF MEMBER
F.O.S	FACE OF STUD
F.O.W.	FACE OF WALL
GA	GAGE (UNIT OF MEASUREMENT)
G.C.	GENERAL CONTRACTOR
G.S.N.	GENERAL STRUCTURAL NOTES
GLB (GLULAM)	GLUED-LAMINATED BEAM
H.F.	HEM FIR
HORIZ	HORIZONTAL REINFORCING
H.S.	HEADED STUDS
IBC	INTERNATIONAL BUILDING CODE
IGOB	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
ICC	INTERNATIONAL CODE COUNCIL
ICD	INSULATED CONCRETE FORMS
I.F.W.	INSIDE FACE OF WALL
I.O.D.	INTERPRETATION OF DRAWINGS
JST	JOIST
K(KIP)	THOUSAND POUNDS
KLF	KIPS PER LINEAR FOOT
LBS (#)	POUNDS
LG	LEADS
LG.S	LIGHT GAGE STEEL
LGSEA	LIGHT GAGE STEEL ENGINEERS </td
L.O.D.	LOCATION OF DETAILS
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
L.V.	LONG LEG VERTICAL
MAS	MASONRY
MAS C.J.	MASONRY CONTROL JOINT
M.B.M	METAL BUILDING MANUFACTURERS ASSOCIATION
MFR'D	MANUFACTURED
MFR'(S)	MANUFACTURER(S)
MN	MINIMUM
N/A	NOT APPLICABLE
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.F.W.	OUTSIDE FACE OF WALL
OPP	OPPOSITE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PAF	POWDER ACTUATED FASTENER
POPAT	SIMPSON POWDER DRIVEN PIN
PPPT	PISTON TOP HAT
PPDP	SIMPSON POWDER DRIVEN PIN WITH TOP HAT (0.300" HEAD)
PCI	PRECAST/PRESTRESSED CONCRETE INSTITUTE
P.C.	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PLF	POUNDS PER LINEAR FOOT
±	PLUS OR MINUS
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSDF	POUNDS PER SQUARE INCH
PT	POST-TENSIONED
PTI	POST-TENSIONING INSTITUTE
REINF	REINFORCING
SDI	STEEL DECK INSTITUTE
SLH	SHORT LEG HORIZONTAL
SLV	SHORT LEG VERTICAL
S.I.	SI METRIC INSTITUTE
SIM	SIMILAR
SO	SQUARE
SSMA	STEEL STUD MANUFACTURERS ASSOCIATION
STD	STANDARD
STL	STEEL
TL	TIE
T.O.B.	TOP OF BEAM
T.O.C.T.	TOP OF CONCRETE TOPPING
T.O.D	TOP OF DECK
T.O.F.	TOP OF FOOTING
T.O.L.	TOP OF LEDGER
T.O.M.	TOP OF MASONRY
T.O.P.	TOP OF PLATE
T.O.P.C.	TOP OF PRECAST CONCRETE
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TP1	TRUSS PLATE INSTITUTE
TP	TYPICAL
T&G	TIE AND GROOVE
UBC	UNIFORM BUILDING CODE
U.N.O.	UNLESS NOTED OTHERWISE
VERT	VERTICAL REINFORCING
W.C.L.A.	WEST COAST LUMBER ASSOCIATION
WCLB	WEST COAST LUMBER INSPECTION BUREAU
W.F.F.	WESTERN FIRE FABRIC
W.P.A.	WESTERN WOOD PRODUCTS ASSOCIATION
W/C	WATER TO CEMENT RATIO
W/O	WITHOUT

GENERAL STRUCTURAL NOTES

BUILDING CODE:

2018 EDITION OF THE INTERNATIONAL BUILDING CODE AND STANDARDS REFERENCED THEREIN, WITH CITY OF FLAGSTAFF AMENDMENTS.

LOADS:

ROOF LIVE LOAD = 20 PSF (REDUCIBLE).
GROUND SNOW LOAD, P_g = 50 PSF.
FLAT-ROOF SNOW LOAD, P_f = 42 PSF (NON-REDUCIBLE).
SNOW EXPOSURE FACTOR, C_e = 1.0.
ROOF RISK CATEGORY, II.
SNOW THERMAL FACTOR, C_t = 1.2.
SNOW LOAD FACTOR, C_s = 1.0.
ROOF DEAD LOAD = 18 PSF.
NET WIND UPLIFT = 10 PSF. (DESIGN BASED ON 0.60 - 0.6W)
SUPERIMPOSED DEAD LOAD ON ROOF TRUSSES = 14 PSF. (EXCLUDES TRUSS WEIGHT)
(8 PSF TOP CHORD / 6 PSF BOTTOM CHORD)

FLOORS:

PATIO FLOOR LIVE LOAD = 100 PSF (REDUCIBLE).
FLOOR DEAD LOAD = 8 PSF.

LATERAL:

WIND:

ULTIMATE DESIGN WIND SPEED (3-SECOND GUST), V_{ult} = 101 MPH.
RISK CATEGORY, II.
EXPOSURE C.

SEISMIC:

RISK CATEGORY, II.
SEISMIC IMPORTANCE FACTOR, I = 1.0.
MAPPED SHORT PERIOD SPECTRAL ACCELERATION, S_a = 0.316.
DESIGN ONE SECOND SPECTRAL ACCELERATION, S₁ = 0.097.
SOIL SITE CLASS, D.
DESIGN SHORT PERIOD SPECTRAL ACCELERATION, S_{ds} = 0.326.
DESIGN ONE SECOND SPECTRAL ACCELERATION, S_{d1} = 0.153.
SEISMIC DESIGN CATEGORY, C.

FOUNDATIONS:

ISOLATED AND CONTINUOUS FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED SOIL (CONTROLLED COMPACTED FILL) 30" MINIMUM BELOW ADJACENT FINISHED GRADE, PAD GRADE OR EXISTING GRADE. FINISHED GRADE (PAD GRADE) IS DEFINED AS TOP OF SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT GRADE WITHIN 5 FEET FOR PERIMETER FOOTINGS. DESIGN SOIL BEARING VALUE = 1500 PSF.

CONCRETE:

SPECIFIED 28 DAY COMPRESSIVE STRENGTH F'_c:
FOUNDATIONS (DESIGN BASED ON 2,500 PSI)----- 3,000 PSI

GENERAL:

ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE REFERENCED EDITION OF THE ACI STANDARDS. MECHANICALLY VIBRATE ALL CONCRETE WHEN PLACED UNLESS NOTED OTHERWISE. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED. NO OTHER ADMIXTURES PERMITTED WITHOUT APPROVAL FOR CONCRETE WITHOUT PLASTICIZER. MAXIMUM SLUMP 4 1/2" AT POINT OF PLACEMENT U.N.O. IF PLASTICIZER IS USED, A HIGHER FINAL SLUMP MAY BE ALLOWED UPON STRUCTURAL ENGINEER'S APPROVAL.

FOR REINFORCING INFORMATION, SEE REINFORCING SECTION OF G.S.N., PLANS, SCHEDULES AND DETAILS.

UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE EMBEDMENT OF CONDUITS, PIPES, SLEEVES, ETC. OF ANY MATERIAL SHALL NOT BE PERMITTED WITHIN ANY CONCRETE STRUCTURAL ELEMENT (IE: COLUMNS, BEAMS, ELEVATED SLABS, ETC) OR STRUCTURAL CONCRETE TOPPING WITHOUT THE EXPRESSED APPROVAL OF THE STRUCTURAL ENGINEER.

FLY ASH - IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS, SHALL BE LIMITED TO 25% OF TOTAL CEMENTITIOUS MATERIALS BY WEIGHT. FLY ASH SHALL BE INCLUDED IN THE CALCULATION OF W/C RATIOS SPECIFIED ABOVE. FLY ASH ADDITIVES SHALL NOT BE USED ON SLABS WITH A BURNISHED OR ACID FINISH.

TEST DATA FOR EACH CONCRETE MIX SHALL BE SUBMITTED FOR REVIEW PER CHAPTER 5 OF ACI 318. REFERENCE FIGURE R5.3 FOR SUBMITTAL REQUIREMENTS AND OPTIONS. CONCRETE MIX DESIGNS THAT ARE SUBMITTED WITHOUT THE APPROPRIATE TEST DATA CANNOT BE REVIEWED.

MASONRY:

GENERAL:

ALL MASONRY CONSTRUCTION SHALL BE PER REFERENCED ACI 530/530.1 AND TMS 402/602. MASONRY CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES. CONCRETE MASONRY ASSEMBLY SHALL BE PLACED IN A RUNNING BOND PATTERN AND HAVE A NET COMPRESSIVE STRENGTH OF F'_m = 2,000 PSI AND BE COMPRISED OF THE FOLLOWING COMPONENTS: MEDIUM WEIGHT, GRADE N, HOLLOW CONCRETE MASONRY UNITS PER ASTM C90 WITH A NET COMPRESSIVE STRENGTH OF 2,000PSI, MORTAR SHALL BE TYPE S PER ASTM C270 WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,800 PSI, GROUT SHALL BE PER ASTM C476 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI. DETERMINATION OF COMPRESSIVE STRENGTH FOR EACH CONCRETE MASONRY ASSEMBLY SHALL BE PER THE UNIT STRENGTH METHOD OR THE PRISM TEST METHOD PER TMS 602. PRISM TESTING IS NOT REQUIRED IF THE UNIT STRENGTH METHOD IS USED.

MECHANICALLY VIBRATE GROUT IMMEDIATELY AFTER GROUTING AND AGAIN 5 TO 10 MINUTES LATER. PROVIDE CLEANOUTS IF GROUT LIFT EXCEEDS 5'-0" IN BLOCK WALLS. MAXIMUM GROUT LIFT SHALL BE 5'-0". WHEN APPROVED BY THE STRUCTURAL ENGINEER AND BUILDING OFFICIAL, GROUT LIFTS MAY BE GREATER THAN 5'-0" IF IT CAN BE DEMONSTRATED BY THE CONTRACTOR THAT THE GROUT SPACES CAN BE PROPERLY FILLED. FILL CELLS SOLIDLY WITH GROUT IN LIFTS AND STOP POURS 1 1/2" BELOW THE TOP OF A COURSE TO FORM A KEY AT POUR POINTS. ALL MASONRY BELOW FINISHED FLOOR OR GRADE SHALL BE GROUTED SOLID.

VERTICAL REINFORCING:

1 #5 IN CENTER OF GROUT AT CENTER OF WALL, CONTINUOUS FULL HEIGHT OF WALL AT ALL CORNERS, INTERSECTIONS, WALL ENDS, BEAM BEARINGS, JAMBS, EACH SIDE OF CONTROL JOINTS AND AT INTERVALS NOT TO EXCEED 48" O.C. UNLESS NOTED OTHERWISE. TIE AT 8"-0" VERTICALLY, WITH SINGLE WIRE LOOP TIE BY A.A. WIRE PRODUCTS COMPANY. DOWEL VERTICAL REINFORCING TO FOUNDATION WITH DOWELS TO MATCH VERTICAL REINFORCING.

HORIZONTAL REINFORCING:

2 #5 IN MINIMUM 16" DEEP GROUTED CONTINUOUS BOND BEAM AT ELEVATED FRAMING ASSEMBLIES. 1 #5 IN MINIMUM 8" DEEP GROUTED CONTINUOUS BOND BEAM AT TOP OF PARAPETS AND FREESTANDING WALLS. PLACE THESE BARS CONTINUOUS THRU CONTROL JOINTS PER TYPICAL DETAIL. TO MAINTAIN BOND BEAM CONTINUITY, INSTALL BENT BARS PER TYPICAL DETAILS TO MATCH HORIZONTAL BOND BEAM REINFORCING AT CORNERS AND INTERSECTIONS. STANDARD WEIGHT (NO. 9 GAGE WIRE) HOHMANN AND BARNARD INC. OR EQUIVALENT LADDER MESH TYPE JOINT REINFORCEMENT AT 16" O.C. ALL JOINT REINFORCING SHALL BE EITHER HOT-DIPPED GALVANIZED OR STAINLESS STEEL. FOR INTERIOR WALLS ONLY - JOINT REINFORCING MAY BE MILL GALVANIZED AT CONTRACTORS OPTION.

LAP SPICES:

LAP SPICES FOR VERTICAL AND HORIZONTAL REINFORCING SHALL BE PER TYPICAL DETAIL. DO NOT EXCEED 12" MINIMUM. LAP HORIZONTAL LADDER TYPE JOINT REINFORCING 12" MINIMUM.

FOR ADDITIONAL REINFORCING INFORMATION, SEE REINFORCING SECTION OF G.S.N., PLANS, SCHEDULES AND DETAILS.

VEENER TIES:

TYPICAL VEENER ATTACHMENT TO STEEL STUD WALLS SHALL CONSIST OF GALVANIZED STEEL HEB-213 VEENER ANCHORAGE SYSTEM MANUFACTURED BY HOHMANN AND BARNARD, INC. ANCHORS CONSIST OF A 3/16" ROUND WIRE PINTLE EXTENDING 3" INTO VEENER AND A 14 GAGE L-SHAPED STEEL PLATE ATTACHED TO STUDS AT 16" O.C. EACH WAY. STEEL PLATES SHALL BE ATTACHED TO STUDS WITH #12 GALVANIZED STEEL SCREWS. INSTALL PER MANUFACTURER'S SPECIFICATIONS. ALTERNATE ATTACHMENT SYSTEM MAY BE SUBMITTED BY CONTRACTOR TO ARCHITECT/ENGINEER FOR APPROVAL AND SHALL CONFORM TO THE APPLICABLE CHAPTER OF THE BUILDING CODE.

TYPICAL VEENER ATTACHMENT TO MASONRY WALLS SHALL CONSIST OF GALVANIZED STEEL HB-5213-2X ADJUSTABLE VEENER ANCHORAGE SYSTEM MANUFACTURED BY HOHMANN AND BARNARD, INC. ANCHORS CONSIST OF A 3/16" ROUND WIRE PINTLE UNIT EXTENDING 3" INTO VEENER AND 14 GAGE STEEL L-SHAPED PLATE ATTACHED TO THE MASONRY WALL AT 16" O.C. EACH WAY. STEEL PLATES SHALL BE ATTACHED TO MASONRY WALLS WITH 523 BRASS EXPANSION BOLT AS MANUFACTURED BY HOHMANN AND BARNARD, INC. INSTALL PER MANUFACTURER'S SPECIFICATIONS. ALTERNATE ATTACHMENT SYSTEM MAY BE SUBMITTED BY CONTRACTOR TO ARCHITECT/ENGINEER FOR APPROVAL AND SHALL CONFORM TO THE APPLICABLE CHAPTER OF THE BUILDING CODE.

REINFORCING:

ALL REINFORCING PER CRSI SPECIFICATIONS AND HANDBOOK. ASTM A615 (F_y = 60 KSI / GRADE 60) DEFORMED BARS FOR ALL BARS #5 AND LARGER. ASTM A615 (F_y = 40 KSI / GRADE 40) DEFORMED BARS FOR ALL BARS #4 AND SMALLER. WHERE SHOWN ON DRAWINGS ALL GRADE 60 REINFORCING TO BE WELDED SHALL BE ASTM A706. NO TACK WELDING OF REINFORCING BARS ALLOWED WITHOUT PRIOR REVIEW OF PROCEDURE WITH THE STRUCTURAL ENGINEER. REFERENCED ACI STANDARDS AND DETAILING MANUAL APPLY. CLEAR CONCRETE COVERAGES AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ----- 3"
EXPOSED TO EARTH OR WEATHER ----- 2"
#6 OR LARGER ----- 2"
#5 AND SMALLER ----- 1 1/2"
ALL OTHER PER REFERENCED EDITION OF ACI 318

ALL REINFORCING SHALL BE CHAIRED OR POSITIONED USING REBAR SPACERS TO ENSURE PROPER CLEARANCES. ALL REINFORCING SHALL BE SECURED IN PLACE PRIOR TO CONCRETE PLACEMENT. SUPPORT OF FOUNDATION REINFORCING MUST PROVIDE ISOLATION FROM MOISTURE/CORROSION BY USE OF A PLASTIC OR CONCRETE CHAIR. DUCT-TAPE COVERED REINFORCING IS NOT AN ACCEPTABLE CHAIR.

ALL DIMENSIONS REFERENCED IN DRAWINGS AS "CLEAR" SHALL BE FROM FACE OF STRUCTURE TO EDGE OF REINFORCING AND SHALL NOT BE LESS THAN STATED, NOR GREATER THAN "CLEAR" DIMENSION PLUS 3/8". ALL OTHERS SHALL BE PLUS OR MINUS 1/4" TYPICAL UNLESS NOTED OTHERWISE.

FIELD BENDING OR STRAIGHTENING OF DEFORMED BARS SHALL BE LIMITED TO #5 BARS AND SMALLER AND SHALL BE FIELD BENT OR STRAIGHTENED ONLY ONCE. ANY BEND SHALL BE LIMITED TO 90 DEGREES. IF FIELD BENDING OR STRAIGHTENING OF #6 BARS OR LARGER IS REQUIRED, OR IF A SECOND BEND IS REQUIRED FOR #5 BARS AND SMALLER, HEAT SHALL BE APPLIED FOR BENDING OR STRAIGHTENING. CONTRACTOR SHALL SUBMIT PROCEDURE FOR APPLYING HEAT TO CONCRETE FOR REVIEW AND APPROVAL PRIOR TO BENDING OR STRAIGHTENING BARS.

LAP SPICES IN CONCRETE:

ALL SPICE LOCATIONS SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER. PROVIDE BENT CORNER BARS TO WATCH AND LAP WITH HORIZONTAL BARS AT ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS. REINFORCING BAR SPACING GIVEN ARE MAXIMUM ON CENTERS. DOWEL VERTICAL REINFORCING TO FOUNDATION WITH STANDARD 90-DEGREE HOOKS UNLESS NOTED OTHERWISE. SECURELY TIE ALL BARS IN LOCATION BEFORE PLACING CONCRETE.

LAP SPICES, UNLESS NOTED OTHERWISE, SHALL BE CLASS "B" TENSION LAP SPICES PER REFERENCED EDITION OF ACI 318.

DRYPACK:

DRYPACK SHALL BE 5,000 PSI NON-SHRINK GROUT, FIVE STAR OR EQUIVALENTS. INSTALL DRYPACK UNDER BEARING PLATES BEFORE FRAMING MEMBER IS INSTALLED. AT COLUMNS, INSTALL DRYPACK UNDER BASE PLATES AFTER THE STRUCTURAL STEEL FRAME HAS BEEN PLUMBED BUT PRIOR TO SUPPORTED DECKING BEING INSTALLED.

POST- INSTALLED ANCHORS:

GENERAL:

ALL POST-INSTALLED ANCHORS SHALL UTILIZE THE EXACT ANCHORAGE SYSTEM SPECIFIED IN THE STRUCTURAL DETAILS, WHERE ANCHORAGE "PER GSN" IS SPECIFIED, SEE BELOW. ANCHORAGE PRODUCTS MAY NOT BE SWAPPED BETWEEN MANUFACTURERS WITHOUT APPROVAL OF THE ENGINEER OF RECORD. ALL REQUESTS FOR EQUIVALENT ANCHORAGE PRODUCTS MUST BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL PRIOR TO BEING INSTALLED IN THE FIELD.

UNLESS NOTED OTHERWISE POST INSTALLED ANCHORS SHALL NOT BE INSTALLED UNTIL CONCRETE OR MASONRY MATERIAL HAS REACHED DESIGN STRENGTH AND HAVE BEEN FULLY CURED FOR A MINIMUM OF 21 DAYS.

MANUFACTURER'S INSTALLATION TRAINING AND CERTIFICATE ARE REQUIRED FOR ALL INSTALLERS OF POST-INSTALLED ANCHORS. ALL ANCHORS SHALL BE INSTALLED WITH STEEL WASHERS AT SHORT SLOTTED HOLES IN ACCORDANCE WITH THE MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS (MPI). ALL ANCHORS SHALL TIGHTENED/TORQUED AS REQUIRED PER MANUFACTURERS INSTRUCTIONS AND EVALUATION REPORTS.

POST-INSTALLED ANCHORS IN CONCRETE:

ALL EXPANSION TYPE ANCHORAGE FOR CONCRETE INSTALLATION ONLY SHALL BE PER HLTI 'KWK BOLT-TZ' EXPANSION ANCHOR PER ICC ESR-1917 OR APPROVED ICC EQUIVALENT. ALL EPOXY ADHESIVE TYPE ANCHORAGE FOR CONCRETE INSTALLATION ONLY SHALL BE PER HLTI 'HIT-RE 500 V3' ADHESIVE ANCHORS PER ICC ESR-584 OR APPROVED ICC EQUIVALENT. ALL SCREW TYPE ANCHORAGE FOR CONCRETE INSTALLATION ONLY SHALL BE PER HLTI 'KWK HUS-EZ' SCREW ANCHOR PER ICC ESR-3027 OR APPROVED ICC EQUIVALENT.

POST-INSTALLED ANCHORS IN MASONRY:

ALL EXPANSION TYPE ANCHORAGE FOR MASONRY INSTALLATION ONLY SHALL BE PER HLTI 'KWK BOLT 3' EXPANSION ANCHOR PER ICC ESR-1385 OR APPROVED ICC EQUIVALENT. ALL EPOXY ADHESIVE TYPE ANCHORAGE FOR MASONRY INSTALLATION ONLY SHALL BE PER HLTI 'HIT-HY 270' ADHESIVE ANCHOR PER ICC ESR-1443 OR APPROVED ICC EQUIVALENT. ALL SCREW TYPE ANCHORAGE FOR MASONRY INSTALLATION ONLY SHALL BE PER HLTI 'KWK HUS-EZ' SCREW ANCHOR PER ICC ESR-3056 OR APPROVED ICC EQUIVALENT.

STRUCTURAL STEEL:

GENERAL:

ALL STEEL CONSTRUCTION PER REFERENCED AISC STEEL CONSTRUCTION MANUAL, ALL MISCELLANEOUS STEEL UNLESS NOTED OTHERWISE SHALL BE ASTM A36 (F_y = 36 KSI).

ALL STRUCTURAL ROLLED STEEL MEMBERS WITH F_y GREATER THAN 36 KSI ARE TO BE IDENTIFIED WITH AN ASTM SPECIFICATION MARK OR TAG PER IBC SEC. 2202.

UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE ASTM A307. A325 BOLTS MAY BE SUBSTITUTED FOR A307 BOLTS AT THE CONTRACTOR'S OPTION. REVERSE SUBSTITUTION IS NOT PERMITTED. ALL BOLTS SHALL BE INSTALLED WITH STEEL WASHERS AT SHORT SLOTTED HOLES USING SMUG TIGHT INSTALLATION, UNLESS NOTED OTHERWISE.

WOOD:

GENERAL:

WOOD FRAMING MEMBERS SHALL NOT BE NOTCHED OR DRILLED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT. ALL NAILING NOT NOTED SHALL BE PER TYPICAL DETAIL AND COMMON NAIL DIAMETER TABLE BELOW. ALL BOLTING SHALL BE PER STRUCTURAL STEEL SECTION ABOVE. WOOD CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. OR OTHER MANUFACTURER WITH CURRENT AND EQUIVALENT ICC APPROVAL. WHERE "TYPE" OF CONNECTOR IS INDICATED ON THE DRAWINGS, THE CONNECTOR AND ATTACHMENT SHALL BE PER THE MAXIMUM MODEL NUMBER BASED ON THE SIZE OF THE MEMBERS CONNECTED.

NAIL TYPE	REQ'D DIA	REQ'D GA	LENGTH	NAIL TYPE	REQ'D DIA	REQ'D GA	LENGTH
6d	0.131"	11 1/2"	2 1/2"	16d	0.162"	8	3 1/4"
8d	0.131"	10 1/4"	2 1/2"	19d	0.162"	8	3 1/2"
10d	0.148"	9	3"	20d	0.192"	6	4"

PROVIDE 2" SOLID BLOCKING AT SUPPORTS OF ALL JOISTS.

WOOD SHRINKAGE:

WOOD TRUSSES SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 18% WHEN DELIVERED TO THE JOB SITE. AFTER ROOF TRUSSES ARE ERCTED AND PRIOR TO DRYWALL INSTALLATION (DRYWALL SHALL BE STAGED AT EACH FLOOR), ALL HOLD-DOWN ANCHORS AND STRAPS SHALL BE TIGHTENED AND CHECKED FOR LOOSE CONNECTIONS.

PLUMBING, MECHANICAL, DRYWALL, AND ELECTRICAL SUBCONTRACTORS SHALL ACCOUNT FOR A MAXIMUM FERENTIAL SHRINKAGE OF 1/8 IN. PER FLOOR IN ALL CONDUTTS, DUCTS AND CONNECTIONS.

PRESERVATIVE-TREATED WOOD:

WOOD FRAMING MEMBERS ATTACHED DIRECTLY TO THE INTERIOR OF EXTERIOR MASONRY OR CONCRETE WALLS BELOW GRADE SHALL BE PRESERVATIVE-TREATED WOOD.

ALL WOOD FRAMING MEMBERS, INCLUDING WOOD SHEATHING THAT ARE LOCATED AT EXTERIOR WALLS THAT ARE LESS THAN 6 INCHES FROM FINISHED GRADE SHALL BE PRESERVATIVE-TREATED WOOD.

ALL FASTENERS INCLUDING NUTS AND WASHERS IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE HOT-DIPPED ZINC-COATED GALVANIZED STEEL OR STAINLESS STEEL. THE COATING WEIGHTS FOR ZINC-COATED FASTENERS SHALL BE PER ASTM A153. FASTENERS OTHER THAN NAILS, WOOD SCREWS AND LAG SCREWS ARE PERMITTED TO BE MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS PER ASTM B695, CLASS 55 MINIMUM.

SAWN LUMBER:

FRAMING LUMBER SHALL COMPLY WITH THE REFERENCED EDITION OF THE GRADING RULES OF THE WMPA OR THE WCLUB. ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY AND SHALL HAVE MINIMUM PROPERTIES WHICH MEET OR EXCEED THE FOLLOWING WOOD TYPES:

JOISTS	WOOD TYPE
2 X 6 OR LARGER	D.F.L. #2
BEAMS	D.F.L. #1
WIDTH 4" OR LESS	D.F.L. #1
WIDTH GREATER THAN 4"	D.F.L. #1
POSTS	D.F.L. #1
6 X 6 OR LARGER	D.F.L. #2

GLUED-LAMINATED BEAMS (GLULAM/GLB):

ALL STRUCTURAL GLUED-LAMINATED BEAMS SHALL MEET THE COMBINATION REQUIREMENTS FROM THE REFERENCED AITC-117 OR NATIONAL DESIGN SPECIFICATION. BEAMS FOR SINGLE SPAN CONDITIONS SHALL BE 4" OR 6" DEEP. BEAMS FOR MULTISPAN CONDITIONS SHALL BE 24F-V8 DF, WITH THE FOLLOWING MINIMUM PROPERTIES: F_b = 2,400 PSI, F_v = 265 PSI, F_c (PERPENDICULAR) = 650 PSI, E = 1,800,000 PSI. ALL BEAMS SHALL BE FABRICATED USING WATERPROOF GLUE. FABRICATION AND HANDLING PER REFERENCED AITC AND WCLA STANDARDS. SUPPLIER SHALL VERIFY WITH ARCHITECT THE GRADE FINISH OF ALL ARCHITECTURALLY EXPOSED FRAMING MEMBERS. BEAMS TO BEAR GRADE STAMP AND AITC STAMP AND CERTIFY ON DRAWINGS. CAMBER AS SHOWN ON DRAWINGS. STANDARD CAMBER (STD) IS DEFINED AS RADIUS OF CURVATURE EQUAL TO 3,500 FEET MINIMUM.

ALL STRUCTURAL GLUED-LAMINATED BEAMS RATED FOR FIRE ENDURANCE SHALL MEET THE REQUIREMENTS OF CHAPTER 16 OF THE AF & PA NATIONAL DESIGN SPECIFICATION. MEMBERS RATED FOR 1-HOUR FIRE ENDURANCE SHALL HAVE THE OUTERMOST INTERIOR CORE LAMINATION STAMPED AND CONFORM TO THE REFERENCED BUILDING CODE AND ANSI 17. NATIONAL DESIGN STANDARD FOR METAL CONNECTED WOOD TRUSS CONSTRUCTION. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, ERECTION DRAWINGS AND DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. SAID SUBMITTAL, IN ADDITION TO LOADS SPECIFIED IN THE G.S.N. AND PLANS, SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

PREFABRICATED WOOD TRUSS FRAMING MEMBERS:

FRAMING MEMBERS SHALL BE DESIGNED TO SUPPORT SELF WEIGHT PLUS LIVE LOAD AND SUPERIMPOSED DEAD LOADS STATED IN THE GENERAL STRUCTURAL NOTES OR AS LOCATED ON PLANS. BRIDGING SIZE AND SPACING BY FABRICATOR UNLESS NOTED OTHERWISE. ALL CONNECTORS SHALL HAVE CURRENT ICC APPROVAL. FRAMING MEMBERS SHALL BE AGENCY STAMPED AND CONFORM TO THE REFERENCED BUILDING CODE AND ANSI 17. NATIONAL DESIGN STANDARD FOR METAL CONNECTED WOOD TRUSS CONSTRUCTION. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, ERECTION DRAWINGS AND DESIGN CALCULATIONS SEALED BY A REGISTERED ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. SAID SUBMITTAL, IN ADDITION TO LOADS SPECIFIED IN THE G.S.N. AND PLANS, SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

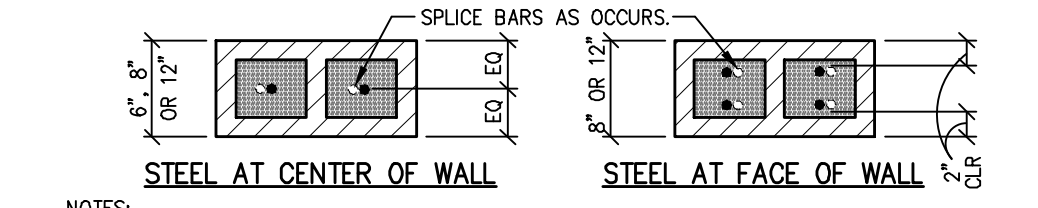
A. LIFTOFF/CAMBER: ROOFS WITH PLASTER OR GYPBOARD CEILINGS TOTAL LOAD MAXIMUM = 1/240, LIVE LOAD MAXIMUM = 1/260. FABRICATOR SHALL DESIGN ROOF MEMBERS FOR PONDING WHERE PONDING AREAS ARE LESS THAN 1/4" PER FOOT. FABRICATOR SHALL BE CAMBERED FOR 1.0 TIMES THE DEAD LOAD DEFLECTION. MAXIMUM TOTAL LOAD DEFLECTION OF MEMBERS SHALL BE 1/2". FABRICATOR SHALL DESIGN ADJACENT MEMBERS FOR MAXIMUM OF 1/4" DIFFERENTIAL DEFLECTION FOR REVIEW.

B. TOP CHORD MEMBER WOOD SPECIES SHALL HAVE A SPECIFIC GRAVITY OF 0.49 OR GREATER.

C. MULTIPLE FRAMING

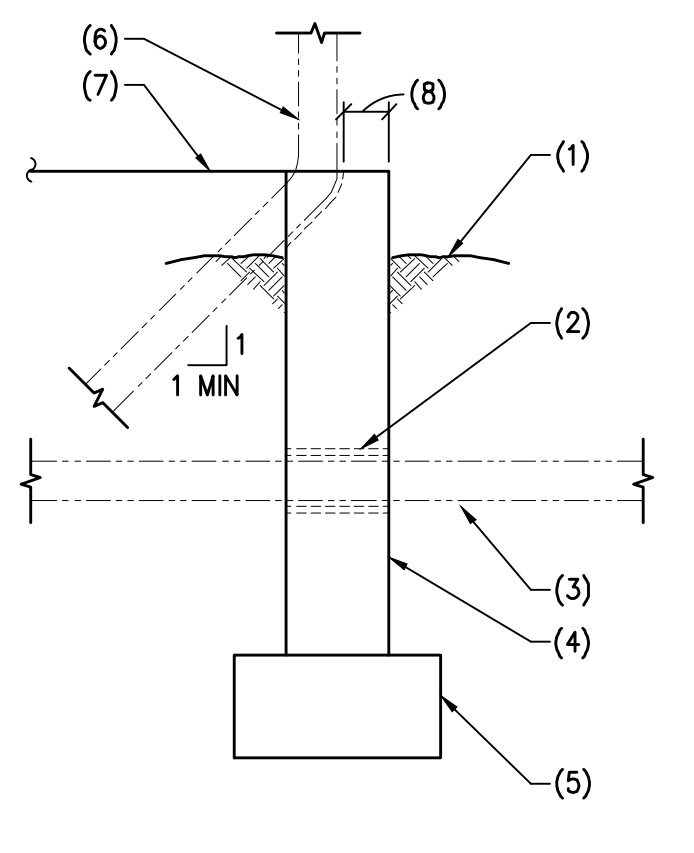
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REBAR SIZE (METRIC)	REBAR GRADE	MASONRY LAP SPLICE LENGTH				
		STEEL AT CENTER OF WALL			STEEL AT FACE OF WALL (& BOND BEAMS)	
		6" BLK	8" BLK	12" BLK	8" BLK	12" BLK
#4 (13)	40	20"	20"	20"	20"	20"
#4 (13)	60	26"	26"	26"	26"	26"
#5 (16)	60	32"	32"	32"	32"	32"
#6 (19)	60	N/A	39"	39"	39"	39"
#7 (22)	60	N/A	45"	45"	N/A	45"
#8 (25)	60	N/A	N/A	52"	N/A	52"



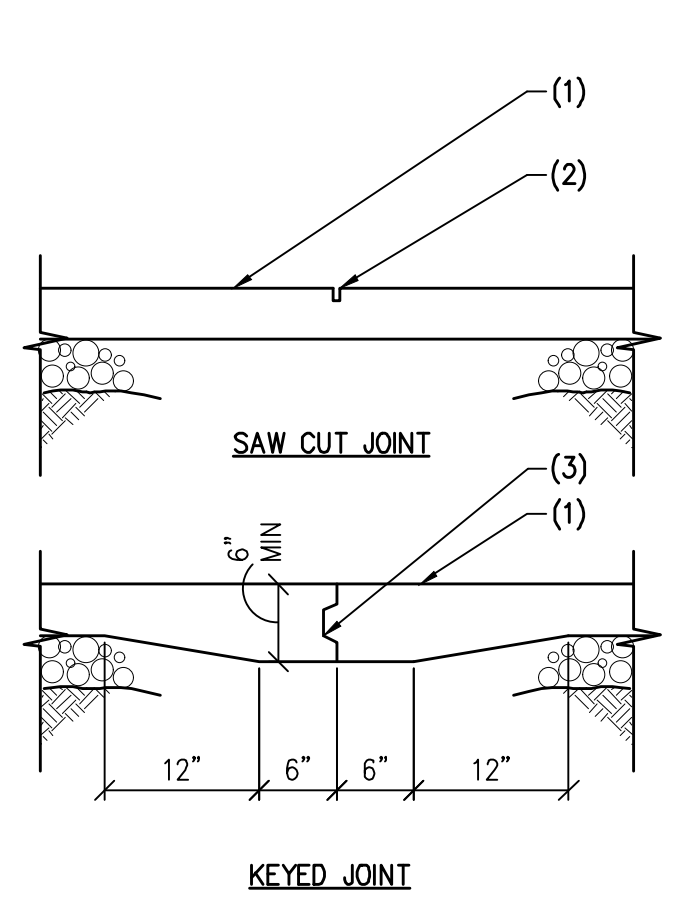
- NOTES:
- LAPS APPLY TO BOTH VERTICAL AND HORIZONTAL REINFORCING.
 - PROVIDE BENT BARS TO MATCH HORIZONTAL BOND BEAM REINFORCING, AT CORNERS AND WALL INTERSECTION TO MAINTAIN BOND BEAM CONTINUITY.
 - DO NOT SPLICE HORIZONTAL BARS WITHIN 8'-0" OF CONTROL JOINTS.
 - FOR LADDER TYPE HORIZONTAL REINFORCING, SEE G.S.N.
 - LAP LENGTHS ARE BASED ON A CALCULATED STEEL STRESS (f_s) NOT EXCEEDING 80 PERCENT OF THE ALLOWABLE STEEL STRESS (f_s).

04 WORKING STRESS MASONRY LAP SPLICES FOR REINFORCING STEEL - 2012/2015/2018 IBC 501-104 NO SCALE



- NOTES:
- FINISHED GRADE WHERE OCCURS.
 - SLEEVE - PROVIDE 1/2" MINIMUM CLEARANCE AROUND PIPE/CONDUIT.
 - HORIZONTAL PIPE OR CONDUIT.
 - STEM WALL.
 - CONCRETE FOOTING.
 - VERTICAL PIPE OR CONDUIT WHEN LOCATED AT STEM WALL - TRANSITION AT FLOOR LINE.
 - FINISHED FLOOR LINE.
 - 1 1/2" MIN CLEAR EXTERIOR FACE OF WALL AND NOTCH. NO REINFORCING MAY BE CUT. DAMAGE TO STEM WALL SHALL BE REPAIRED AND PATCHED TO MATCH ADJACENT WALL.
- NOTE:
- NO PIPE SHALL PASS THRU FOOTINGS OR UNDER COLUMN FOOTINGS.
 - FOR ADDITIONAL INFORMATION, SEE PLANS AND DETAILS.

05 PIPE AT FOUNDATION STEM WALL 105-24 NO SCALE



- NOTES:
- CONCRETE SLAB ON GRADE.
 - SAWCUT - 1/2" WIDE X 1/4" SLAB THICKNESS IN DEPTH - CUT SHALL BE MADE SOON ENOUGH TO PREVENT SHRINKAGE CRACKING, BUT NOT SO SOON AS TO CAUSE SPALLING OF THE CONCRETE WHILE SAWING. WORK MUST BE ACCOMPLISHED WITHIN 24 HOURS OF CONCRETE PLACEMENT.
 - CONTINUOUS KEY - SEE TYPICAL KEY IN TYPICAL DETAIL.
- NOTE:
- KEYED JOINTS NEED ONLY OCCUR AT EXPOSED EDGES DURING PLACEMENT UNLESS SPECIFICALLY NOTED ON THE PLANS. "TOOL WET JOINT", "ZIP STRIP", ETC. SHALL MATCH SAWCUT REQUIREMENTS.

06 CONTROL JOINTS IN CONCRETE SLAB ON GRADE 101-01M NO SCALE

CONNECTION (COMMON NAILS ONLY)	NAILING
JOIST TO SILL OR GIRDER, TOENAIL	3 - 8d
BRIDGING TO JOIST, TOENAIL EACH END	2 - 8d
SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL	16d AT 16" O.C.
SOLE PLATE TO JOIST OR BLOCKING, AT BRACED WALL PANEL	3-16d PER 16"
TOP PLATE TO STUD, END NAIL	2 - 16d
STUD TO SOLE PLATE	4 - 8d, TOENAIL OR 2 - 16d, END NAIL
DOUBLED STUDS, FACE NAIL	16d AT 24" O.C.
DOUBLED TOP PLATES, TYPICAL FACE NAIL	16d AT 16" O.C.
DOUBLED TOP PLATES, LAP SPLICE	8 - 16d
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	3 - 8d
RIM JOIST TO TOP PLATE, TOENAIL	8d AT 8" O.C.
TOP PLATE, LAPS AND INTERSECTIONS, FACE NAIL	2 - 16d
CONTINUOUS HEADER, TWO PIECES	16d AT 16" O.C. ALONG EACH EDGE
CEILING JOISTS TO PLATE, TOENAIL	3 - 8d
CONTINUOUS HEADER TO STUDS, TOENAIL	4 - 8d
CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3 - 16d
CEILING JOIST TO PARALLEL RAFTERS, FACE NAIL	3 - 16d
RAFTER TO PLATE, TOENAIL	3 - 8d
BUILT-UP CORNER STUDS	16d AT 24" O.C.
BUILT-UP GIRDER AND BEAMS	20d AT 32" O.C. TOP AND BOTTOM, AND STAGGERED 2-20d EACH END AND SPLICES

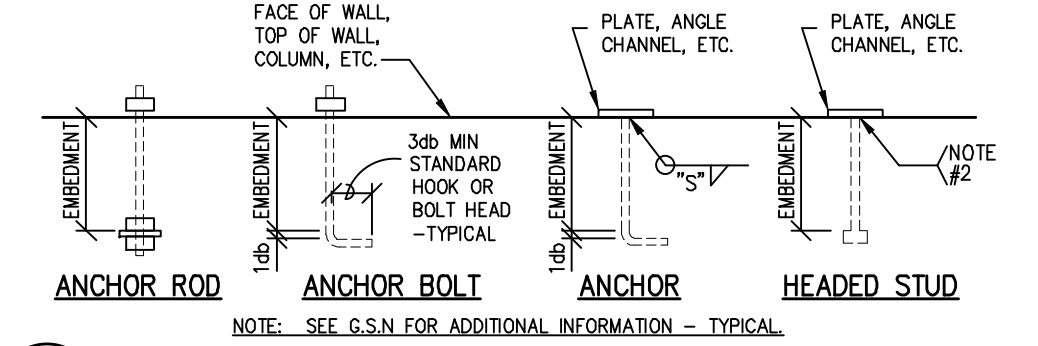
07 NAILING SCHEDULE - U.N.O. 601-01 NO SCALE

CONC PSI	CLASS B TENSION SPLICE LENGTHS						COMP. BARS	
	$f_c = 2,500/3,000$ PSI		$f_c = 4,000$ PSI		$f_c = 5,000$ PSI		STD LAP	ENCLOSURE W/ SPIRAL TIES
	REGULAR	TOP	REGULAR	TOP	REGULAR	TOP		
#3 (10)	24"	31"	19"	24"	17"	22"	12"	12"
#4 (13)	32"	41"	25"	32"	22"	29"	15"	12"
#5 (16)	39"	51"	31"	40"	28"	36"	19"	14"
#6 (19)	47"	61"	37"	48"	33"	43"	23"	17"
#7 (22)	69"	89"	54"	70"	49"	63"	26"	20"
#8 (25)	78"	102"	62"	80"	55"	72"	30"	23"
#9 (29)	88"	115"	70"	91"	63"	81"	34"	25"
#10 (32)	99"	129"	79"	102"	70"	91"	38"	28"
#11 (36)	110"	143"	87"	113"	78"	101"	42"	31"

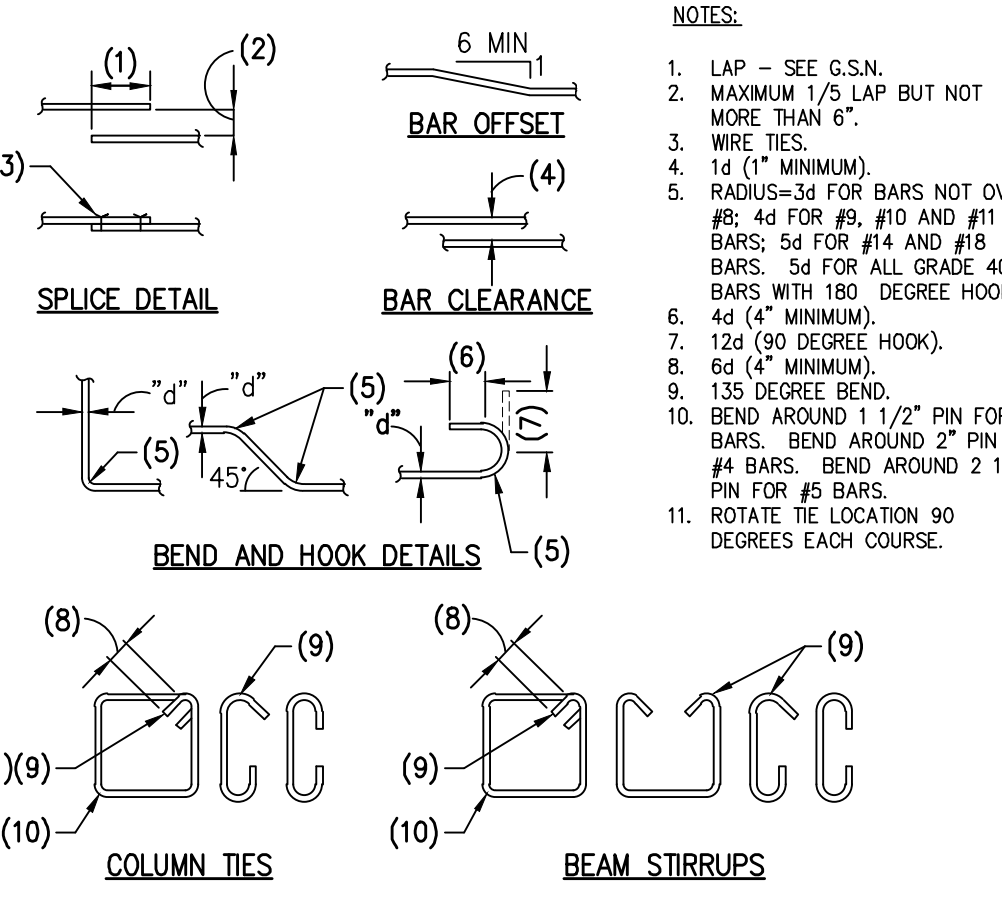
- NOTES:
- TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
 - LAP SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES PER LATEST EDITION OF ACI 318 UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS OR SCHEDULES.
 - CONTACT STRUCTURAL ENGINEER IF CLEAR SPACING OF REINFORCEMENT IS LESS THAN OR EQUAL TO 2 BAR DIAMETERS (2db), OR IF CLEAR COVER IS LESS THAN THE BAR DIAMETER (db).
 - THIS TABLE IS BASED ON NORMAL WEIGHT CONCRETE.
 - FOR ADDITIONAL INFORMATION, SEE G.S.N., PLANS, SCHEDULES AND DETAILS.

01 LAP SCHEDULE FOR REINFORCING STEEL IN CONCRETE 201-31.01 NO SCALE

BOLT DIAMETER (db)	VERT BOLT EMBEDMENT LENGTH	HORIZ BOLT EMBEDMENT LENGTH	ANCHOR FILLET WELD SIZE, "S"
1/2"	6"	4"	1/4"
5/8"	6"	4"	5/16"
3/4"	7"	5"	5/16"
7/8"	8"	6"	5/16"
1"	9"	7"	3/8"
1 1/8"	10"	8"	-----
1 1/4"	11"	9"	-----



02 TYPICAL ANCHOR ROD, ANCHOR BOLT, ANCHOR AND HEADED STUD SCHEDULE AND BOLT/PLATE EDGE CLEARANCES 401-02 NO SCALE



03 TYPICAL CONCRETE REINFORCING BAR DETAILS 401-07 NO SCALE

CONNECTION (COMMON NAILS ONLY)		NAILING	
JOIST TO SILL OR GIRDER, TOENAIL	3 - 8d	BRIDGING TO JOIST, TOENAIL EACH END	2 - 8d
SOLE PLATE TO JOIST OR BLOCKING, TYPICAL FACE NAIL	16d AT 16" O.C.	SOLE PLATE TO JOIST OR BLOCKING, AT BRACED WALL PANEL	3-16d PER 16"
TOP PLATE TO STUD, END NAIL	2 - 16d	STUD TO SOLE PLATE	4 - 8d, TOENAIL OR 2 - 16d, END NAIL
DOUBLED STUDS, FACE NAIL	16d AT 24" O.C.	DOUBLED TOP PLATES, TYPICAL FACE NAIL	16d AT 16" O.C.
DOUBLED TOP PLATES, LAP SPLICE	8 - 16d	BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL	3 - 8d
RIM JOIST TO TOP PLATE, TOENAIL	8d AT 8" O.C.	TOP PLATE, LAPS AND INTERSECTIONS, FACE NAIL	2 - 16d
CONTINUOUS HEADER, TWO PIECES	16d AT 16" O.C. ALONG EACH EDGE	CEILING JOISTS TO PLATE, TOENAIL	3 - 8d
CONTINUOUS HEADER TO STUDS, TOENAIL	4 - 8d	CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL	3 - 16d
CEILING JOIST TO PARALLEL RAFTERS, FACE NAIL	3 - 16d	RAFTER TO PLATE, TOENAIL	3 - 8d
BUILT-UP CORNER STUDS	16d AT 24" O.C.	BUILT-UP GIRDER AND BEAMS	20d AT 32" O.C. TOP AND BOTTOM, AND STAGGERED 2-20d EACH END AND SPLICES

07 NAILING SCHEDULE - U.N.O. 601-01 NO SCALE

FOR ADDITIONAL INFORMATION SHOWN BUT NOT NOTED, SEE GENERAL STRUCTURAL NOTES ON SHEET S1.1, AND TYPICAL DETAIL SHEETS.

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PROJECT NUMBER	20-1242	PROJECT MANAGER	BKN
PROJECT ENGINEER	KMC	PROJECT DRAFTER	MDF

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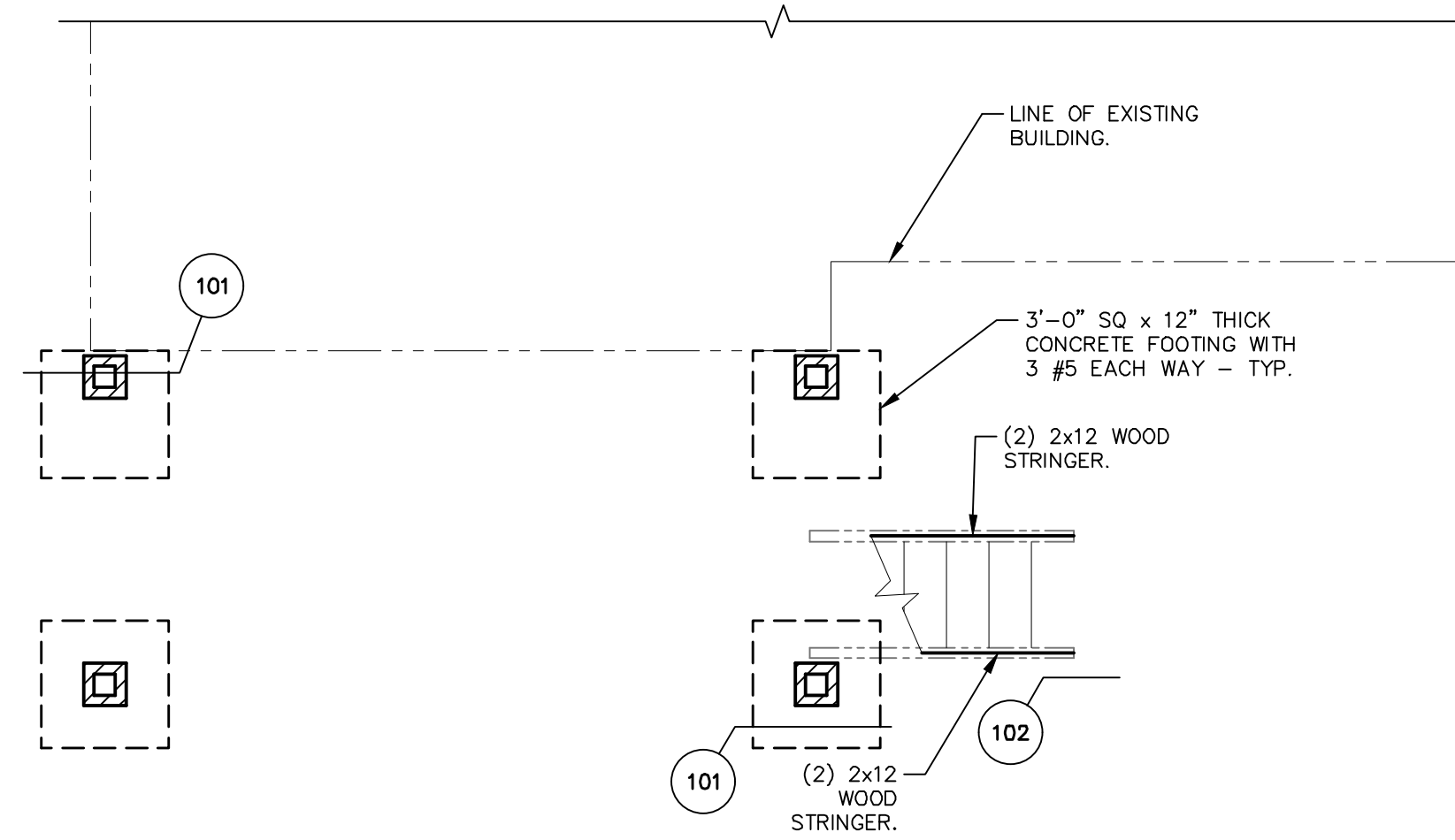
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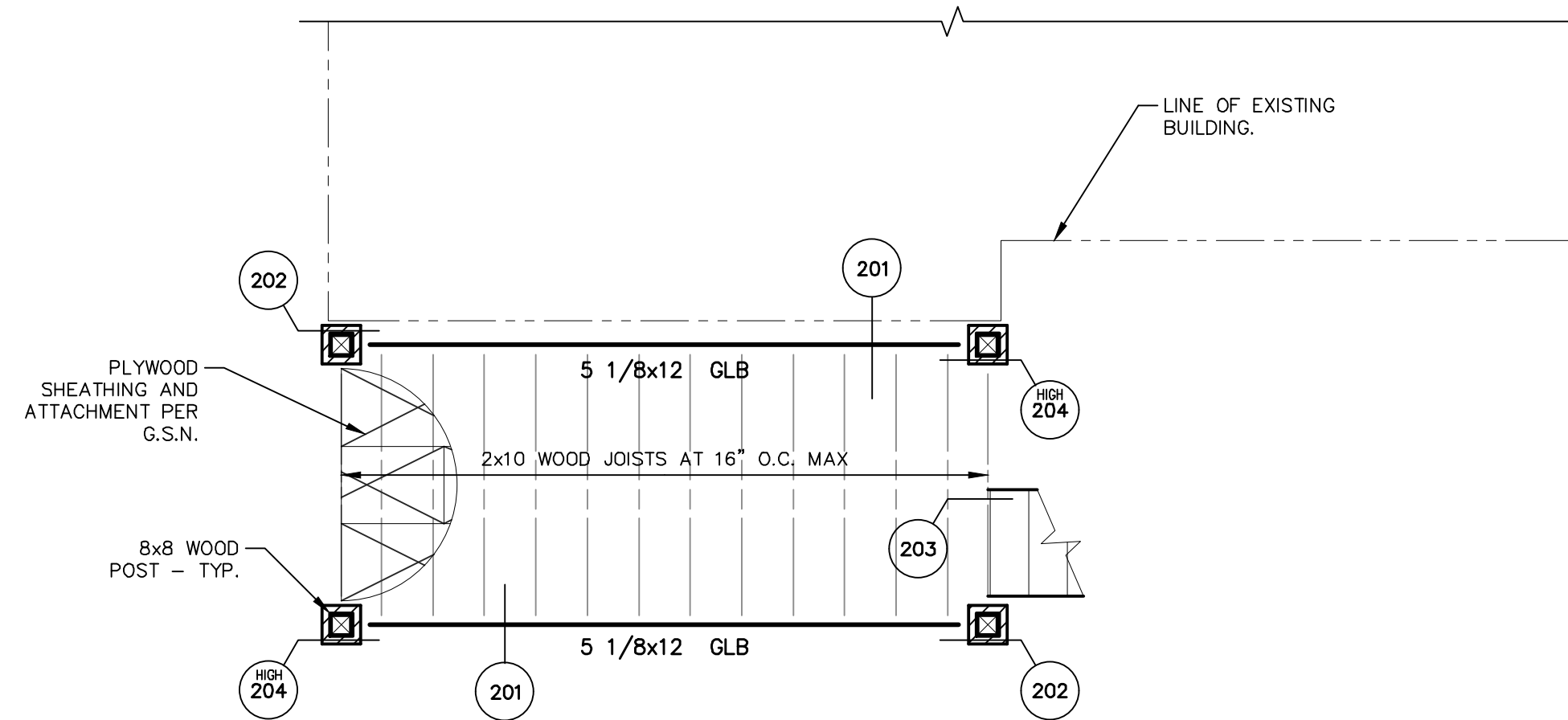
SHEET
S1.2

TYPICAL
 DETAILS

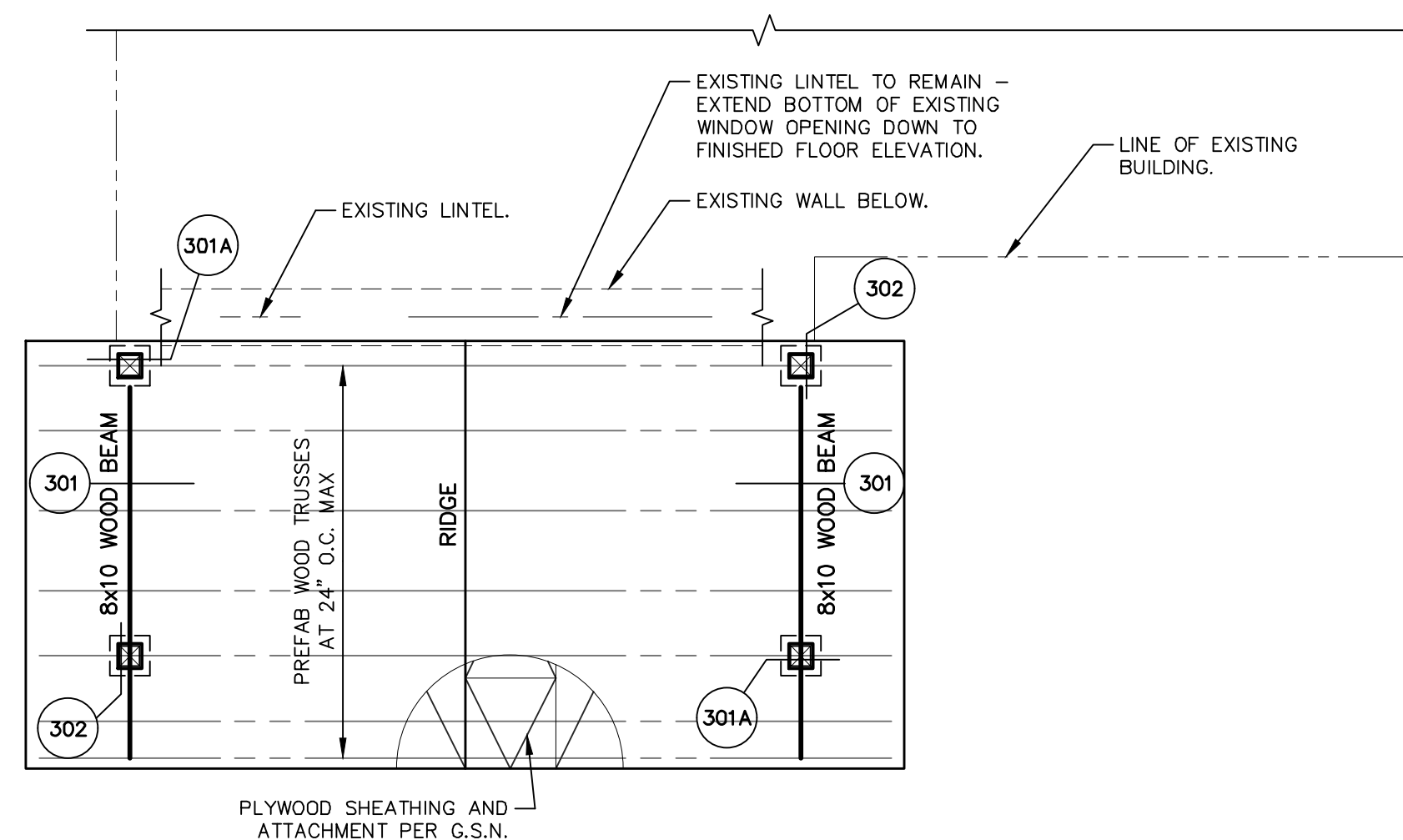
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FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



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



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

LOCATION OF DETAILS		
DETAILS	SHEET	DESCRIPTION
---	S1.1	GENERAL STRUCTURAL NOTES
01-19	S1.2	TYPICAL DETAILS
101-119	S3.1	FOUNDATION DETAILS
201-219	S3.1	FLOOR FRAMING DETAILS
301-319	S3.1	ROOF FRAMING DETAILS

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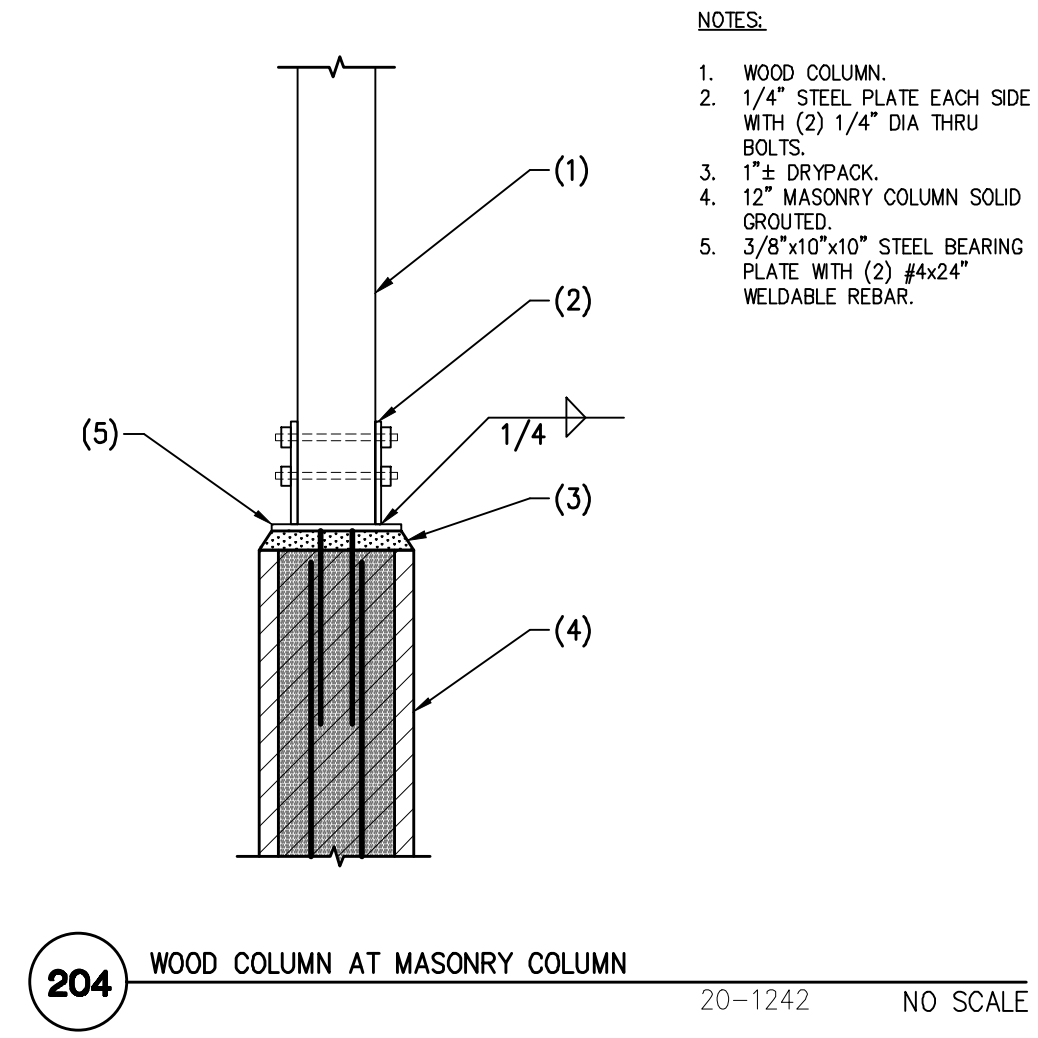
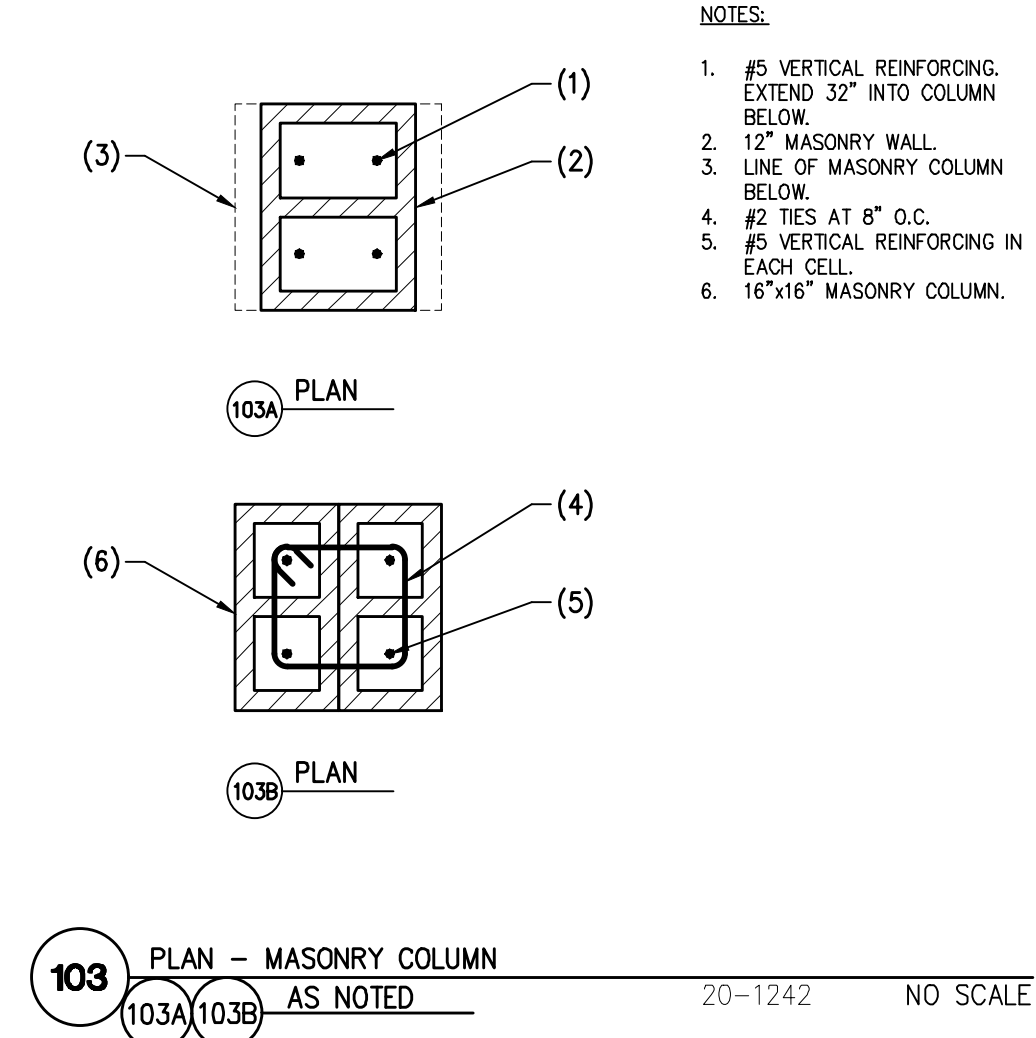
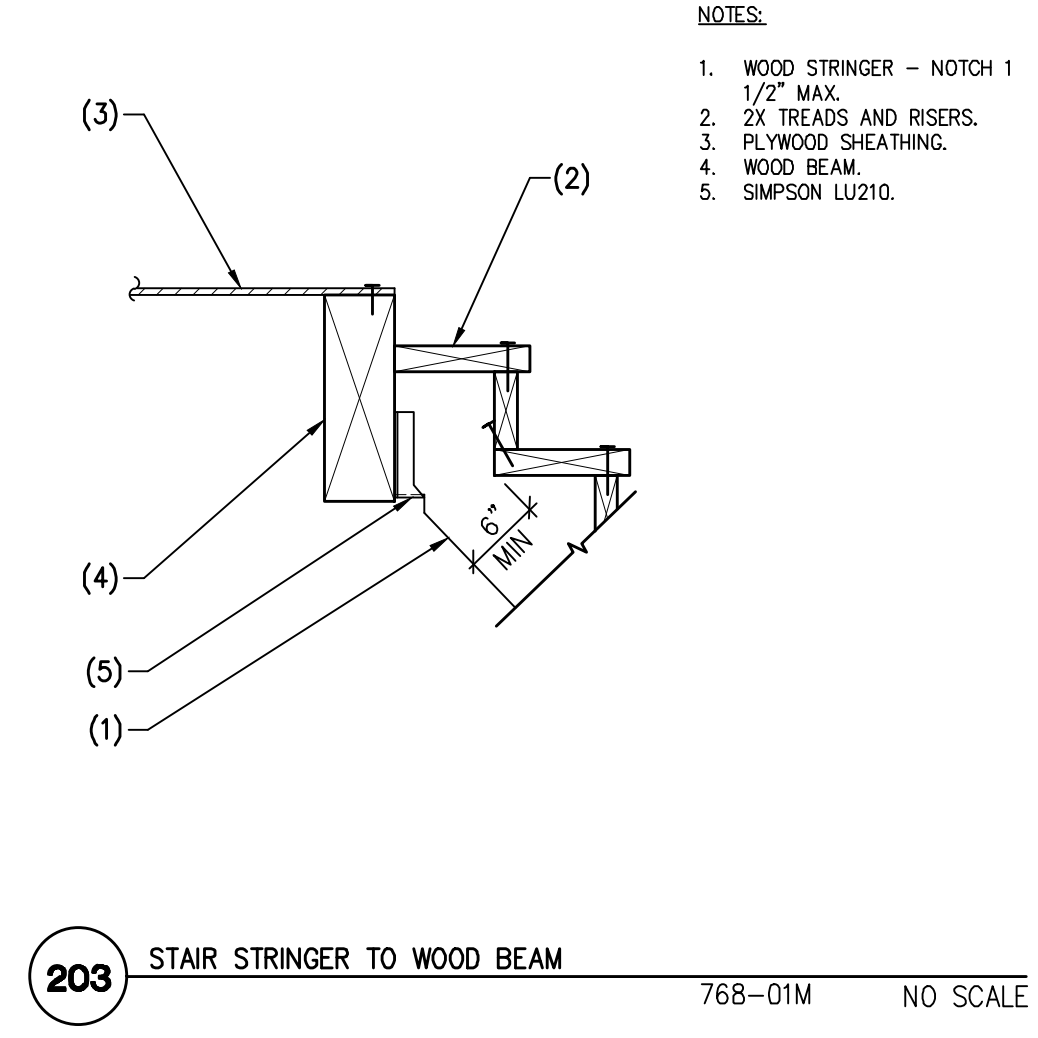
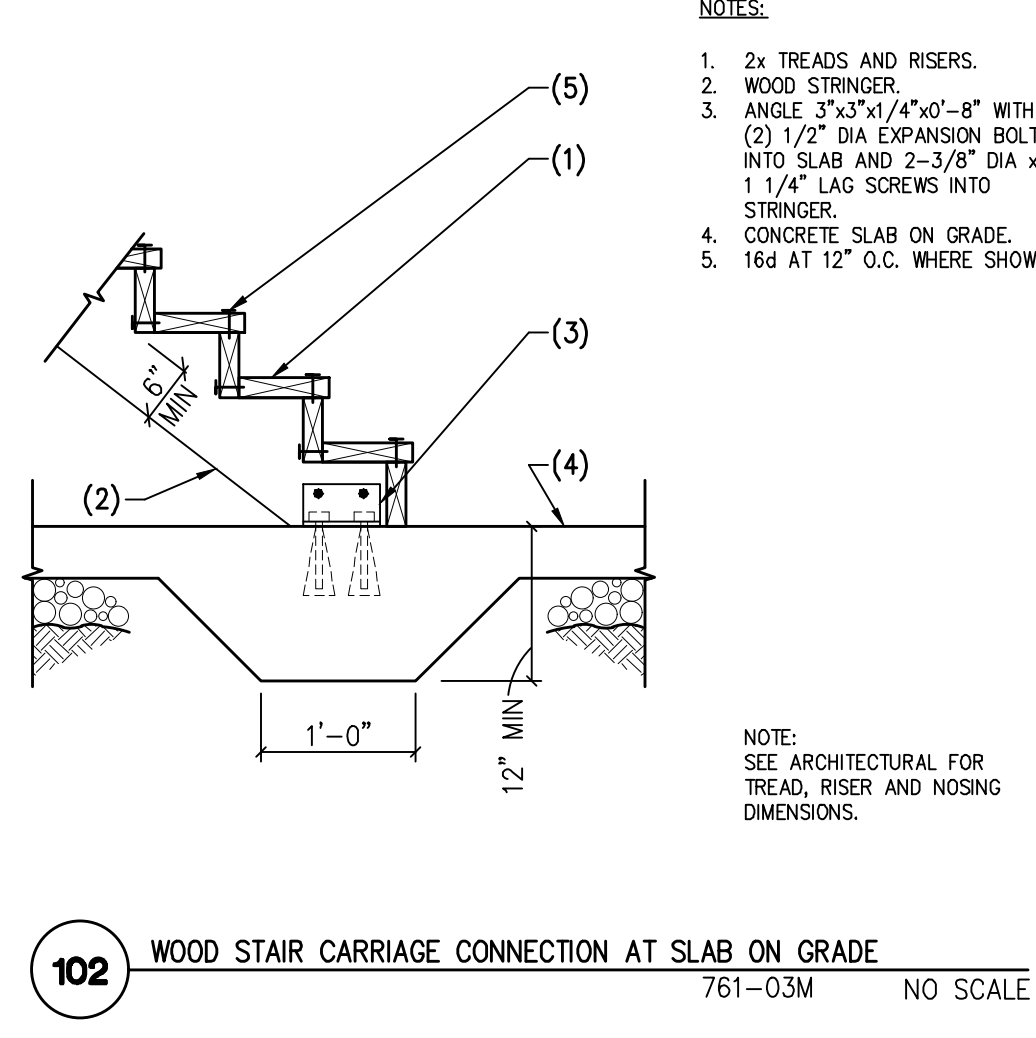
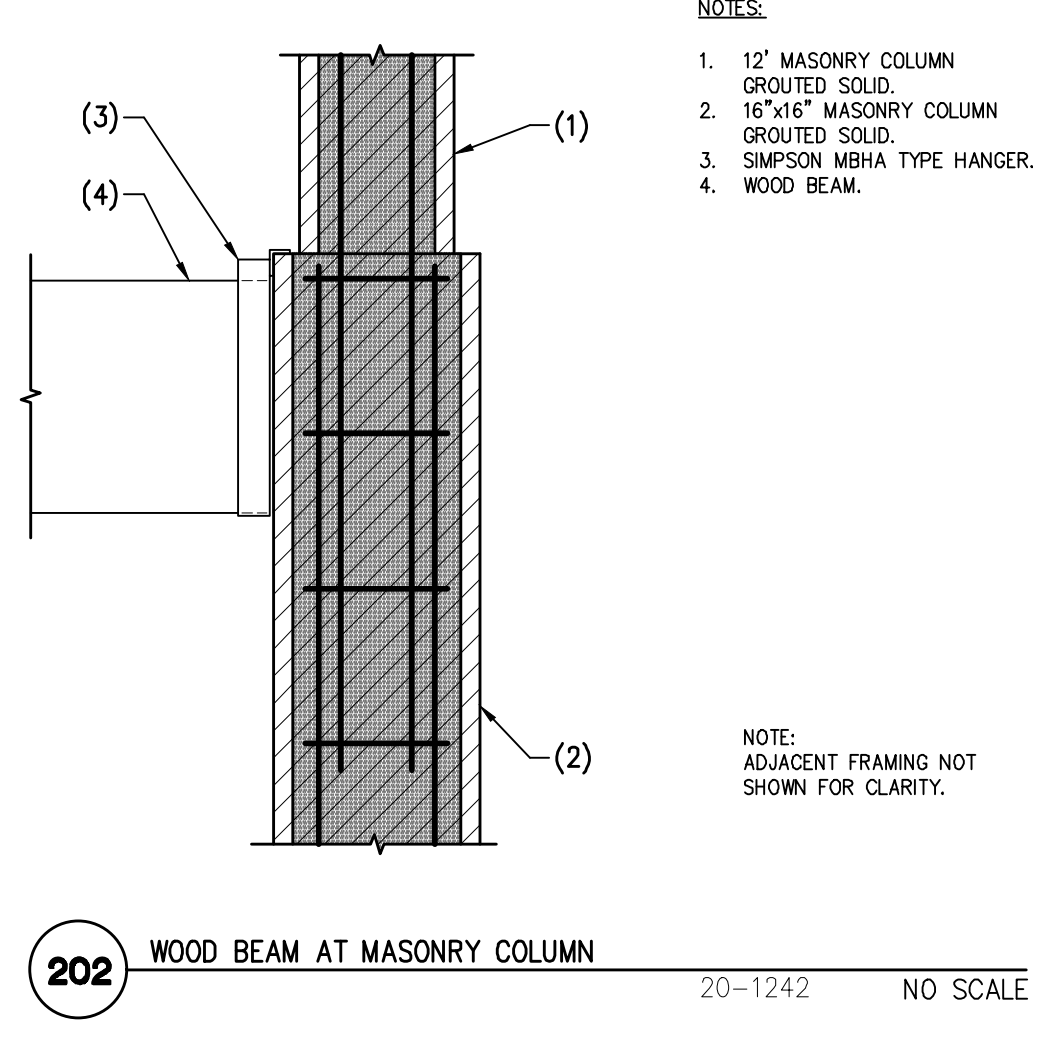
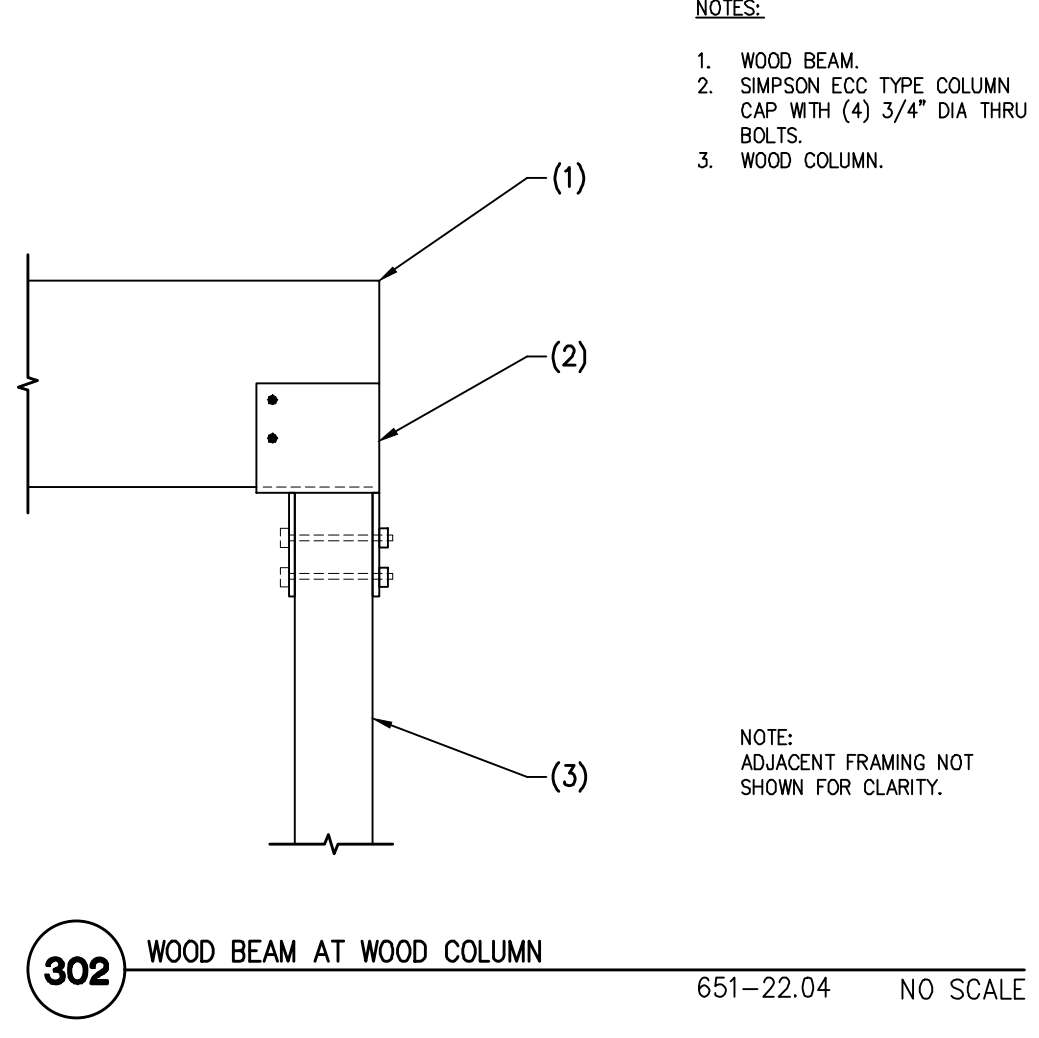
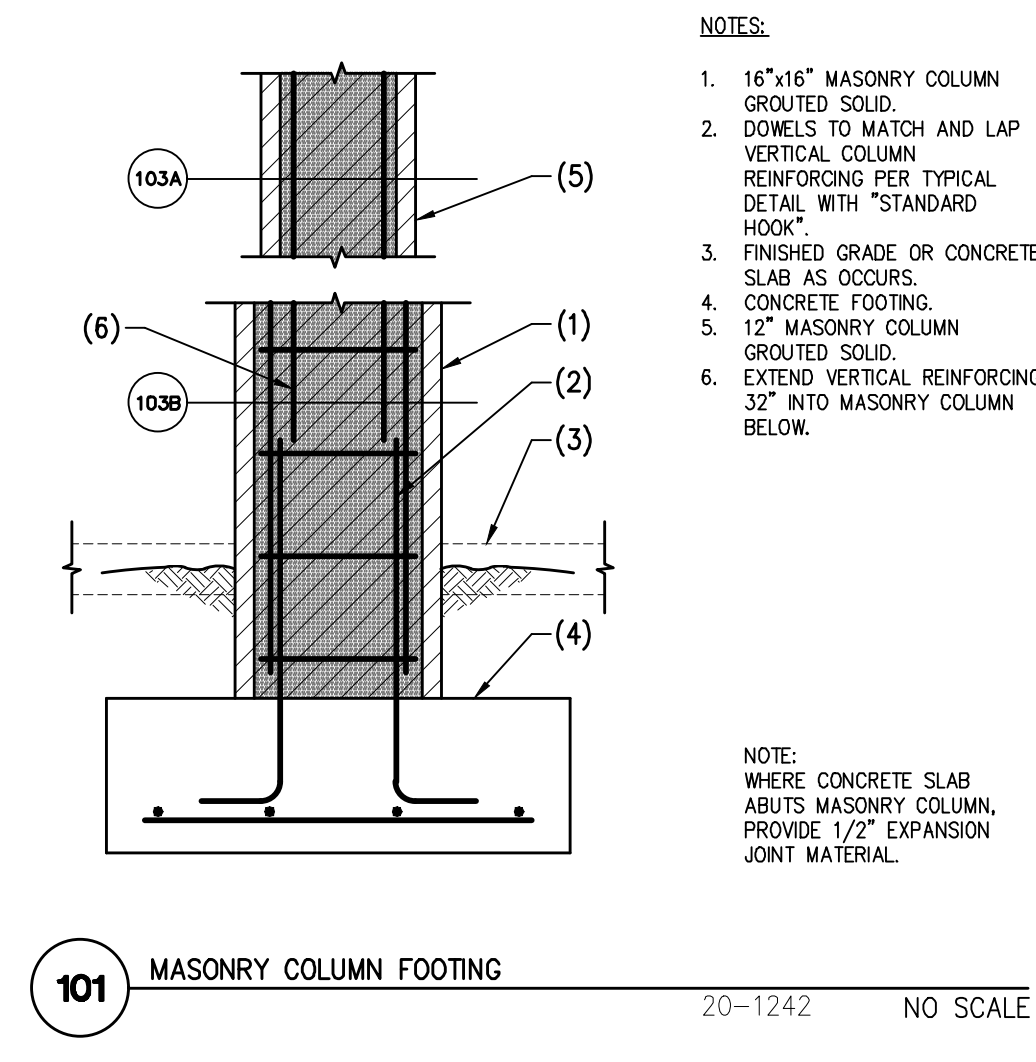
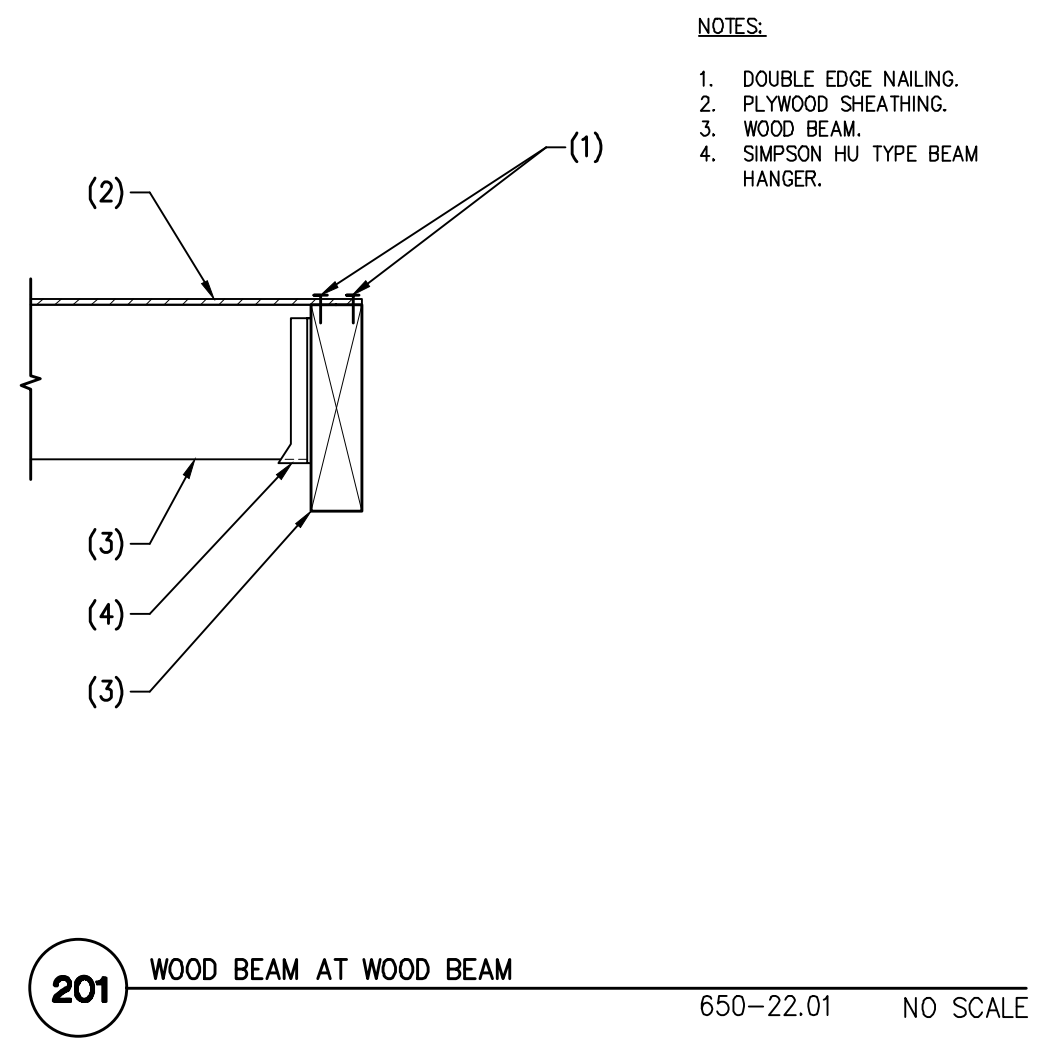
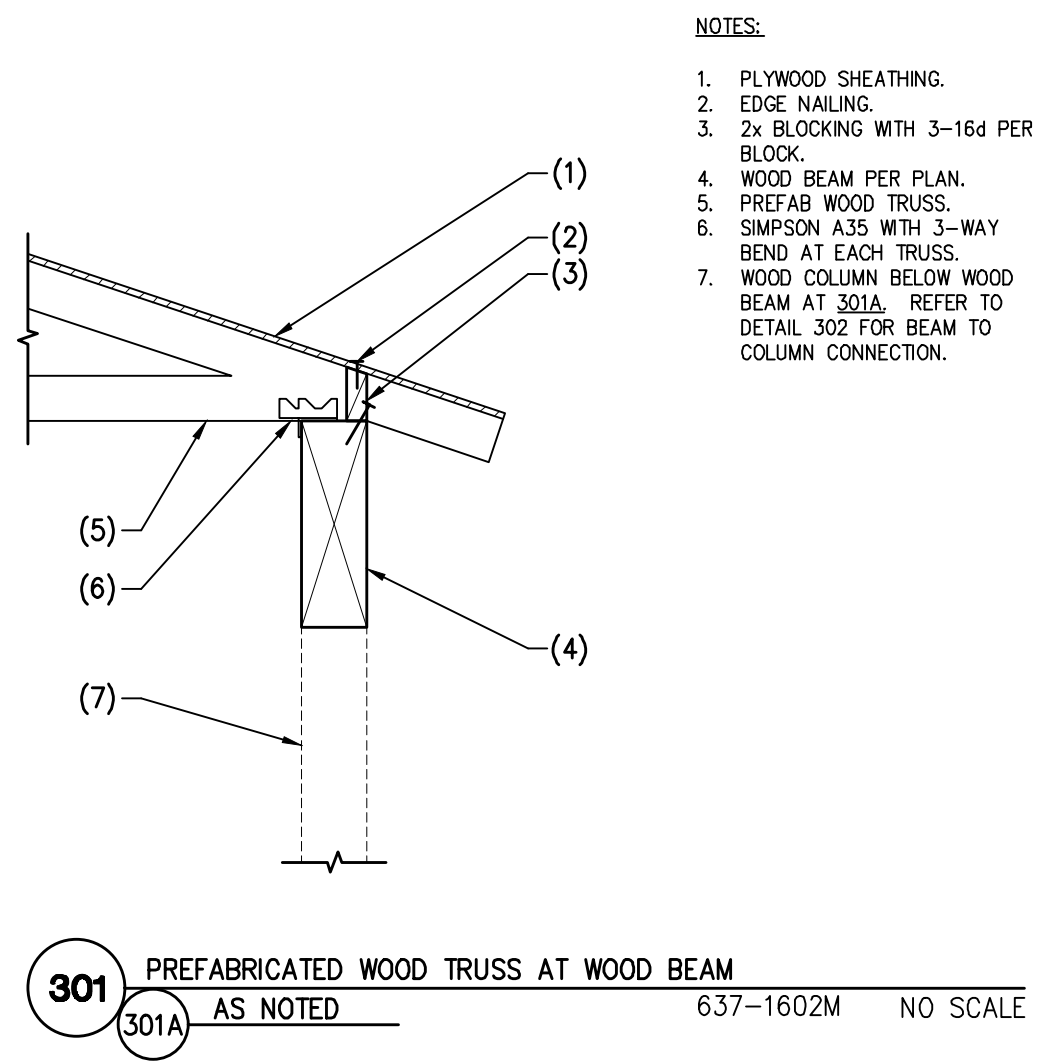
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SHEET
S2.1

FOUNDATION AND FRAMING
PLANS

SCALE: AS NOTED

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 Date: October 24, 2020
 Job No:

SHEET
S3.1

FOUNDATION, FRAMING, AND ROOF DETAILS
 SCALE: AS NOTED