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elswood smith carlson architects, pa.
kansas state certificate of authority # A-162
missouri state certificate of authority # 000330

NOTICE DUTY OF COOPERATION
Architects of these plans construction before cooperation
during the design, construction and the design.
Design and construction are complex. Although the
designer and the contractor have performed their services
with due care and diligence, they cannot guarantee
completion. Common factors that may affect the design or
discrepancy discovered by the use of these plans shall be
considered to be the responsibility of the designer. It is the responsibility of the designer to ensure that the design is
for a project that is the design and the design is the design
from responsibility for all consequences. Changes made
from the design without the consent of the designer are
not authorized, and shall release the designer of responsibility
for all consequences arising out of such changes.
Contractor shall check and verify all dimensions.

SUMMIT VIEW FARMS
POOL HOUSE
LEE'S SUMMIT, MISSOURI

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Weston E. Coble
Architect
KSH 6705
MOH A-2016011206

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project no. 20091
date 01/28/2021
revised
design by W.C.
drawn by A.H.
struct. by APEX

cover

sheet no.

C1

CODE CLASSIFICATION AND ANALYSIS

BUILDING AUTHORITY:

CITY OF LEE'S SUMMIT, MISSOURI

APPLICABLE CODES:

2018 INTERNATIONAL BUILDING CODE - 2018 IBC
2018 INTERNATIONAL FIRE CODE - 2018 IFC
2018 INTERNATIONAL PLUMBING CODE - 2018 IPC
2018 INTERNATIONAL MECHANICAL CODE - 2018 IMC
2018 INTERNATIONAL FUEL GAS CODE - 2018 IFGC
2018 INTERNATIONAL ENERGY CONSERVATION CODE - 2018 IECC
2017 NATIONAL ELECTRIC CODE - 2017 NEC
AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES - ADAAG

PROJECT DESCRIPTION:

THIS PROJECT IS ONE NEW POOL OUT BUILDING FOR SUMMIT VIEW
FARMS. THE BUILDING WILL BE ONE STOREY ABOVE GRADE WITH
A RESTROOM FOR EITHER MEN OR WOMEN, STORAGE, AND
MECHANICAL AREAS.

BUILDING CLASSIFICATION:

OCCUPANCY GROUP A-4: SWIMMING POOL

NON-SEPARATED USE (PER IBC 508.3)
CONSTRUCTION TYPE II-B (TABLE 601)
ALLOWABLE AREA 6,000 SQ. FT. (TYPE A-4)(TABLE 506.2)
ACTUAL AREA (OUTDOOR GATED POOL) 6,923 SQ. FT.
ACTUAL AREA (BATHROOM/STORAGE BLDGS.) 848 SQ. FT.
ALLOWABLE STORIES 1 (TABLE 504.4)

OCCUPANCY LOAD:

BATHS 303 SQ. FT. / 100 = 3 TRELLIS AREA & POOL DECK (BY OTHERS)
4614 SQ. FT. / 15 = 307
CHANGING ROOMS 140 SQ. FT. / 50 = 2 POOL (BY OTHERS)
140 SQ. FT. / 50 = 2 2,751 SQ. FT. / 50 = 55
POOL EQUIP. / MECHANICAL POOL DECK, POOL &
142 SQ. FT. / 300 = 1 TRELLIS OCCUPANCY = 362

STORAGE 263 SQ. FT. / 300 = 1

BATHHOUSE OCCUPANCY = 7

TOTAL OCCUPANCY = 369

FIRE SAFETY:

SPRINKLER NOT REQUIRED

PER IBC 903.2.1.4 - AUTOMATIC SPRINKLER NOT REQUIRED WHEN FIRE
AREA IS UNDER 12,000 SQ. FT., OCCUPANT LOAD IS LESS THAN 300
(NO BUILDINGS, ONLY BATHHOUSE) AND THE FIRE AREA IS ON THE
LEVEL OF DISCHARGE.

FIRE RATINGS

EXTERIOR WALLS NOT RATED (IBC TABLE 602,
SEPARATION >30')
LOAD BEARING WALL NOT RATED (IBC TABLE 601,
TYPE II-B)
ROOF / CEILING NOT RATED (IBC TABLE 601,
TYPE II-B)
STRUCTURE NOT RATED (IBC TABLE 601,
TYPE II-B)

EGRESS

THE BUILDING HAS 7 ACCESSIBLE EXITS THAT DO NOT UTILIZE
OTHER AREAS FOR EGRESS PURPOSES.

PLUMBING FIXTURES:

(BATHHOUSE, POOL & POOL DECK)
WATER CLOSET - MEN (1/125) 2 2
WATER CLOSET - WOMEN (1/65) 3 3
LAVATORIES - MEN (1/200) 1 1
LAVATORIES - WOMEN (1/200) 1 1
DRINKING FOUNTAIN (1/1000) 1 2 (HIGH & LOW FOR ADA)

ENERGY CODE:

CLIMATE ZONE LEES SUMMIT, MO - 4A
INSULATION SHALL BE INSTALLED PER TABLE C402.2 & C402.3 OF THE
2017 IECC. AS AMENDED BY THE CITY OF LEE'S SUMMIT, MISSOURI

INSULATION REQUIREMENTS

CEILING AND CATHEDRAL CEILING R-38
WOOD FRAMED WALLS R-13
UNHEATED SLABS R-10 FOR 24" BELOW
OPAQUE SKINING DOORS U-0.61

FENESTRATION

FIXED WINDOW U-0.38
OPERABLE WINDOW U-0.45
ENTRANCE DOOR U-0.77
DOOR - SHGC 0.40

DEVELOPER:

BILL KENNEY
P.O. BOX 241
LEE'S SUMMIT, MO 64063
(816) 838-0552

SURVEYER/ CIVIL:

LAMP RYNEARSON
9001 STATE LINE RD, STE 200
KANSAS CITY, MO 64114
(816) 361-0440

ARCHITECT:

ELSWOOD SMITH CARLSON ARCHITECTS, P.A.
7133 W. 95TH ST., SUITE 200
OVERLAND PARK, KS 66212
(913) 649-7557

STRUCTURAL ENGINEER:

APEX ENGINEERS, INC.
1600 BALTIMORE, SUITE 102
KANSAS CITY, MO 64108
(816) 421-3222

MEP ENGINEER:

LATIMER SOMMERS & ASSOCIATES
3634 SW SUMMERFIELD DR. #A
TOPEKA, KA 66614
(785) 233-3232

POOL DESIGNER:

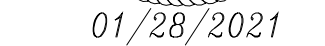
LORAX DESIGN GROUP
8021 SANTA FE DR. #200
OVERLAND PARK, KS 66204
(913) 912-1244

DRAWINGS SHEET INDEX

SHEET NO.	SHEET TITLE
C-1	BUILDING CODE DATA, CLASSIFICATIONS & LIST OF DRAWINGS
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A-2	FIRST FLOOR PLAN
A-3	INTERIOR ELEVATIONS
S-1.00	GENERAL NOTES AND SPECIFICATIONS
S-1.10	SPECIAL INSPECTIONS
S-1.20	SCHEDULES
S-1.30	LOADING DIAGRAMS
S-2.00	PLANS
S-3.00	TYPICAL WOOD SHEAR WALL DETAILS
S-5.00	TYPICAL FOUNDATION DETAILS
S-8.10	TYPICAL WOOD DETAILS
S-8.11	TYPICAL WOOD DETAILS
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ME-1	SITE PLAN - MECH/ELEC.
ME-2	FIRST FLOOR PLAN - MECH/ELEC.
ME-3	FIRST FLOOR PLAN - MECH/ELEC.
ME-4	MECH/ ELEC. DETAILS
ME-5	MECH/ ELEC. DETAILS
ME-6	MECH/ ELEC. SCHEDULES
ATTACHMENT	STRUCTURAL CALCULATIONS

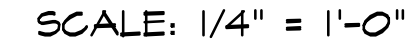
LEE'S SUMMIT, MISSOURI

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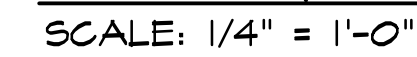
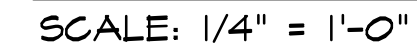


Architect
KS# 6705
MO# A-2016011206

revised	
design by	W.C.
drawn by	A.H.
struct. by	APEX

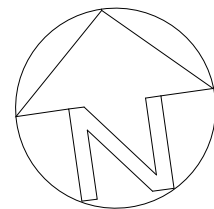
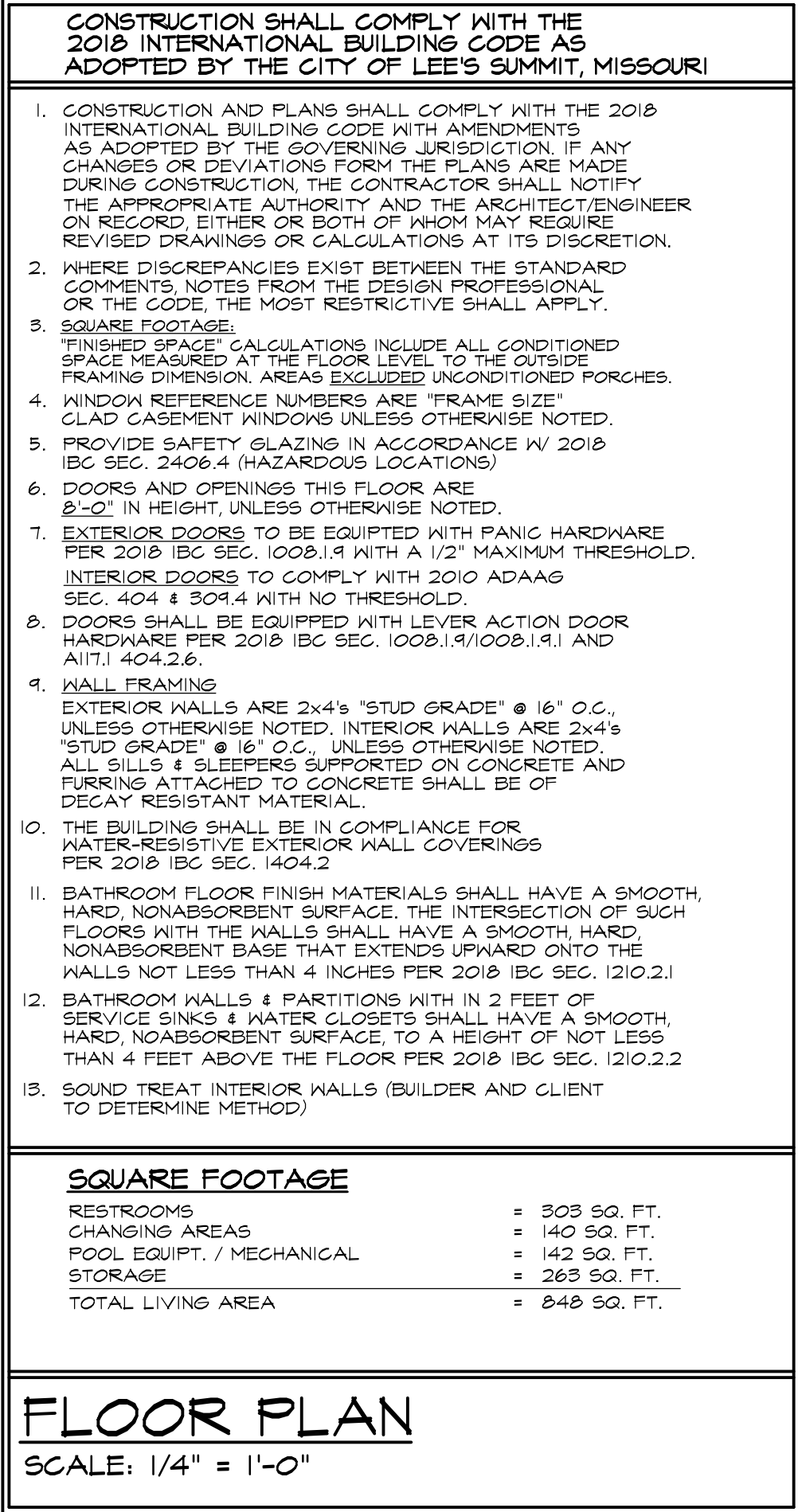


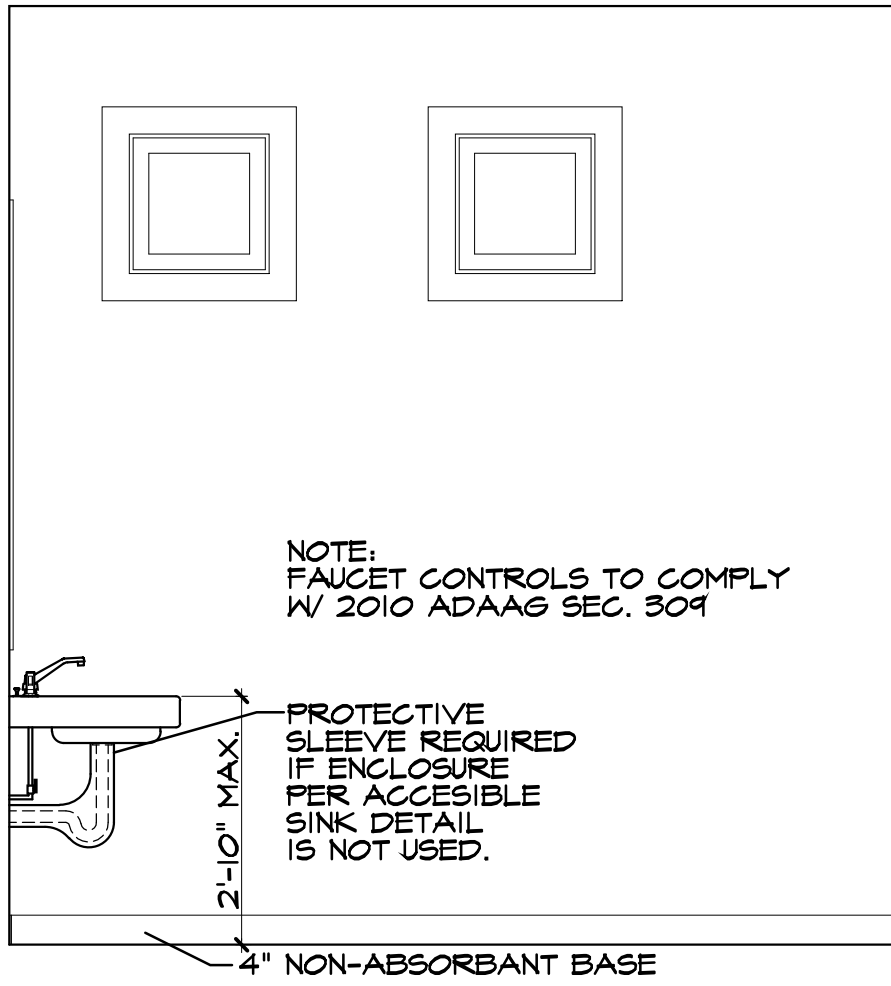
FIELD VERIFY DEPTH OF ALL
FOUNDATION WALLS UPON EXCAVATION



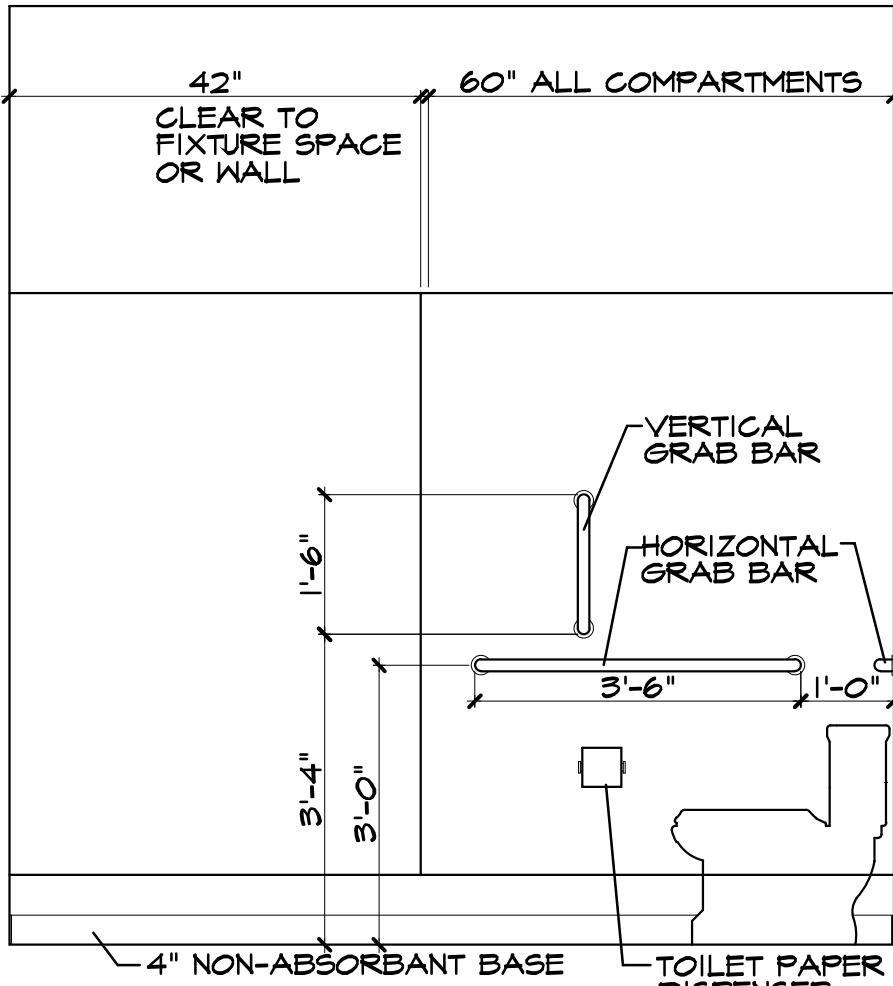
LEE'S SUMMIT, MISSOURI

A-2

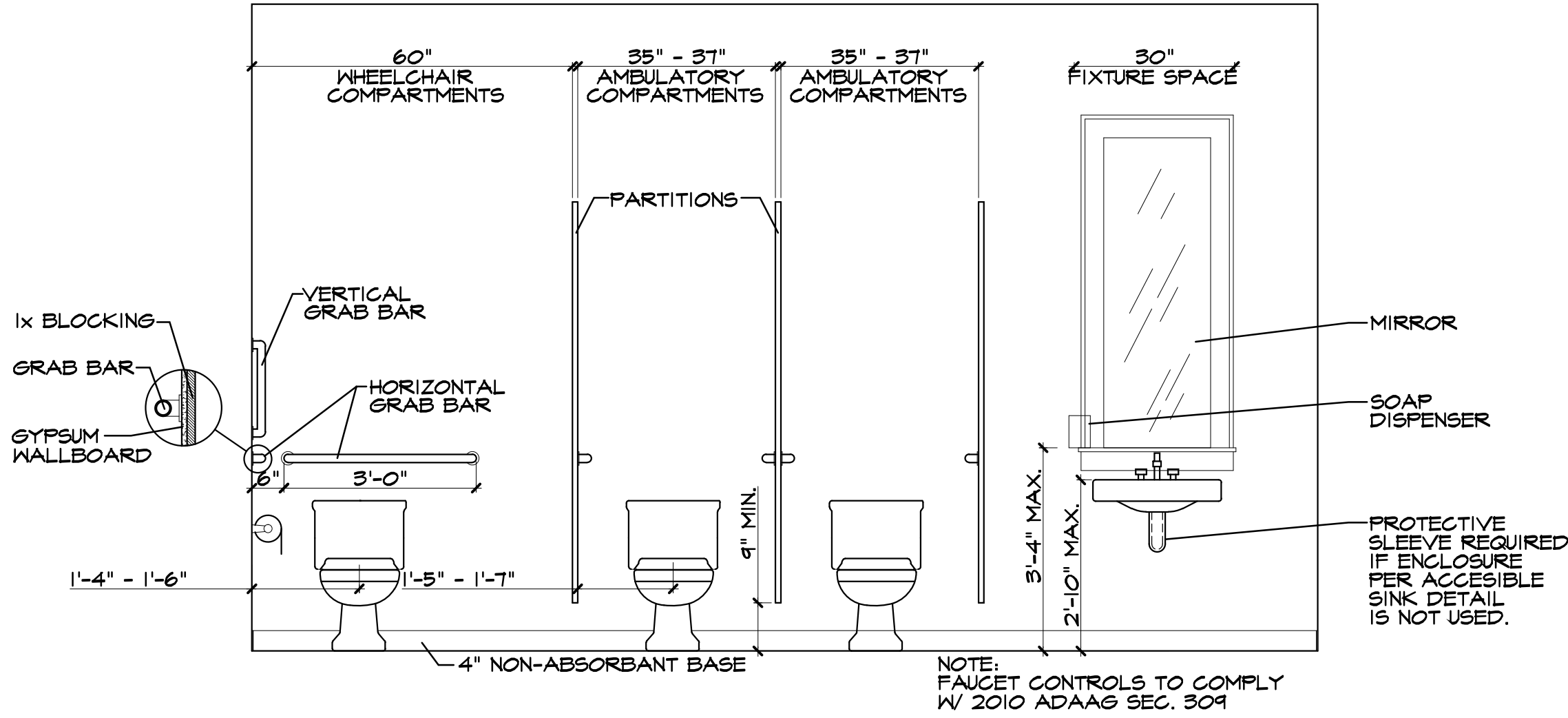




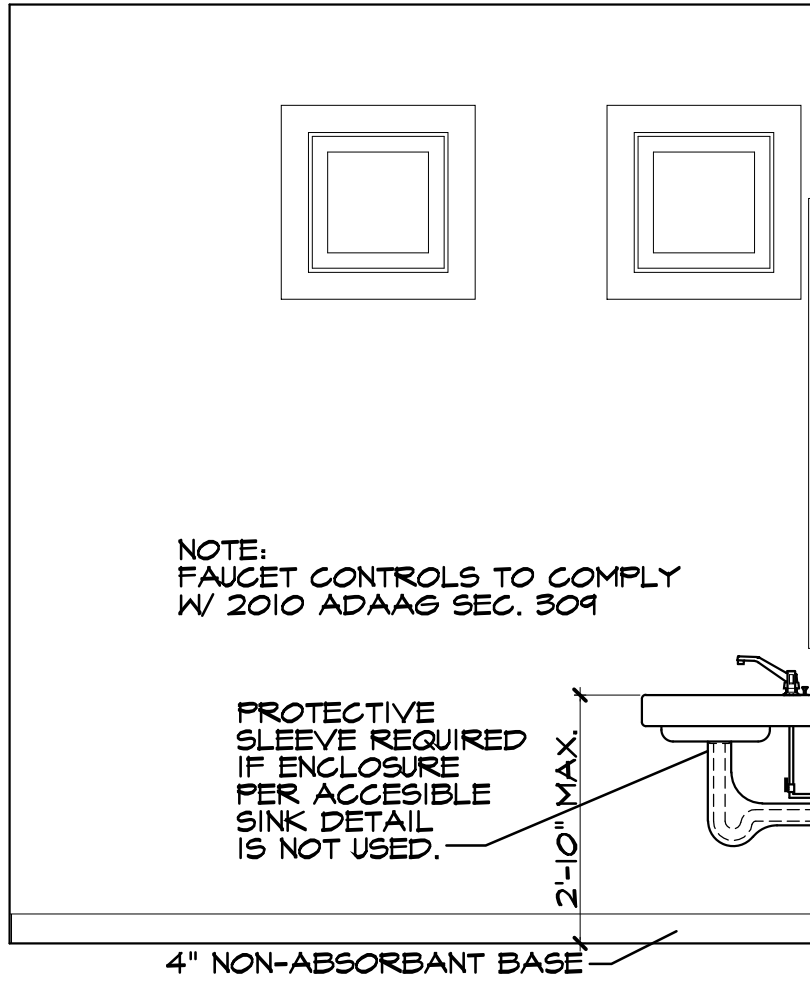
ELEVATION A
SCALE: 1/2" = 1'-0"



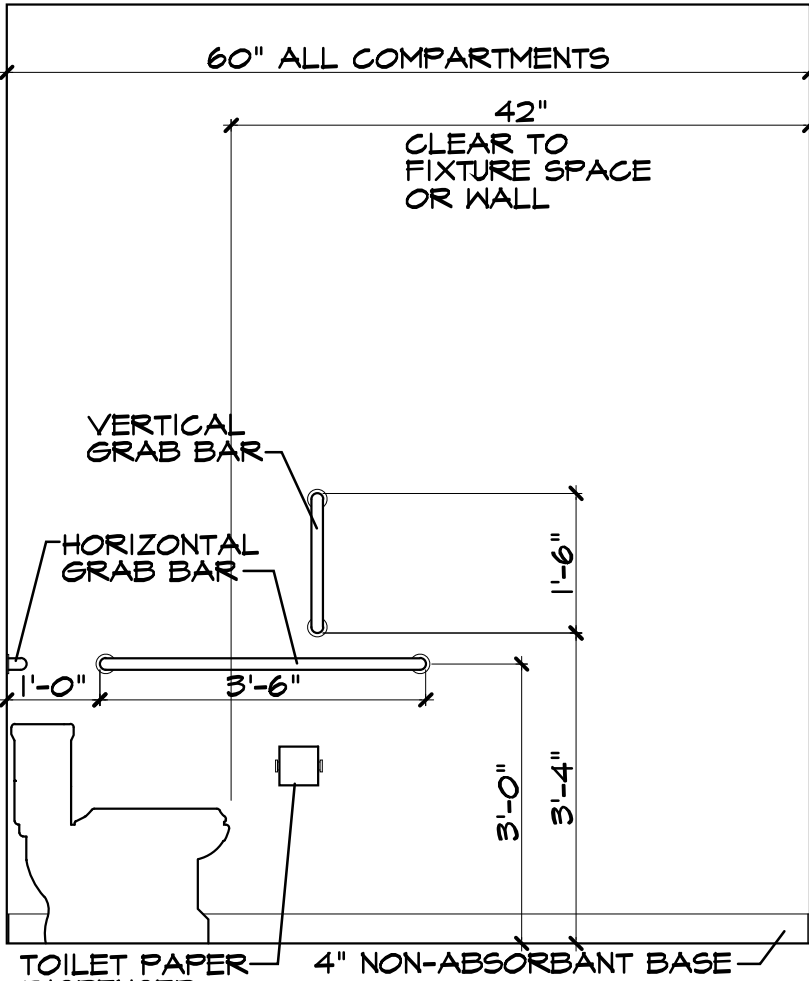
ELEVATION B
SCALE: 1/2" = 1'-0"



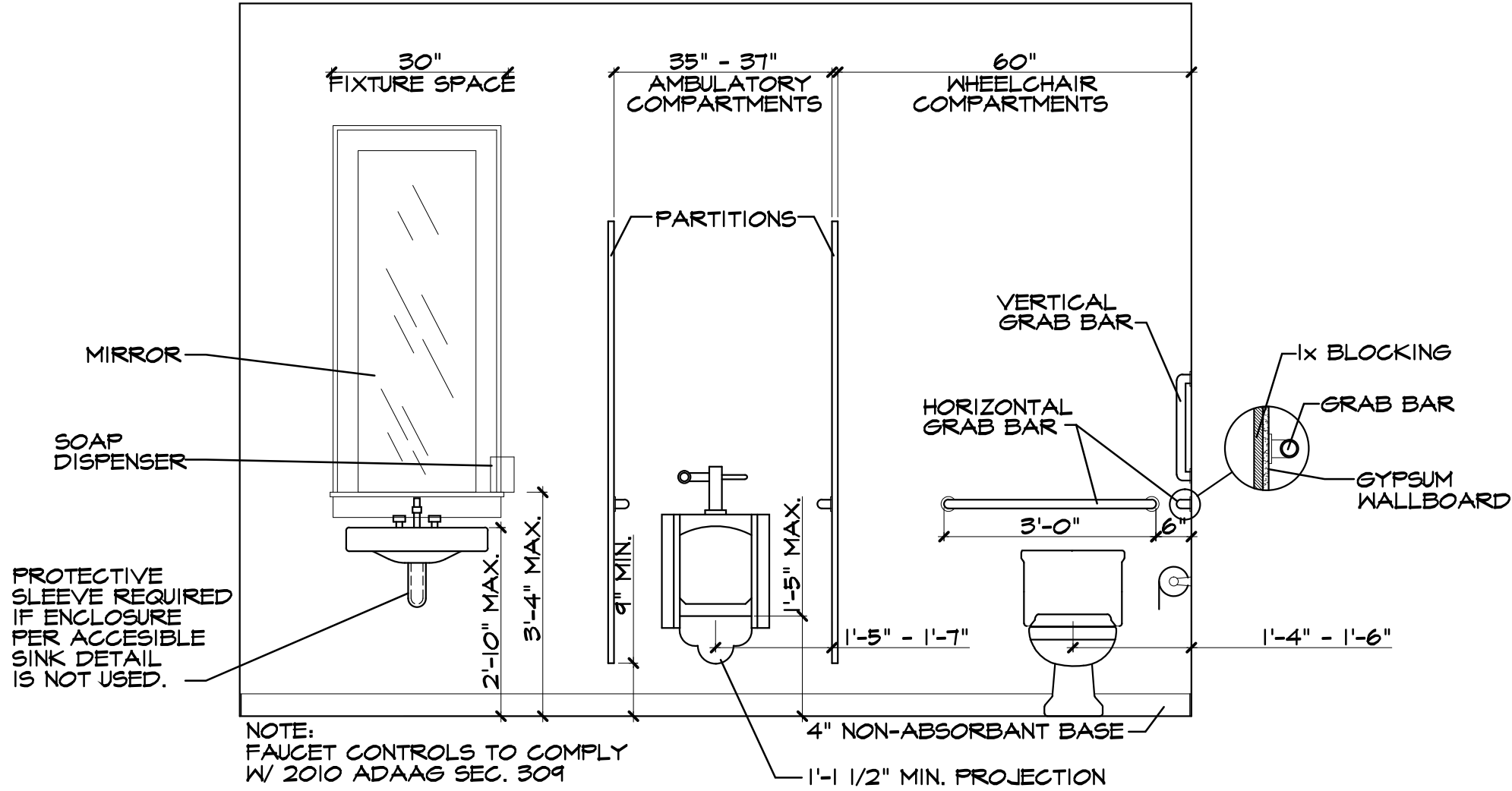
ELEVATION C
SCALE: 1/2" = 1'-0"



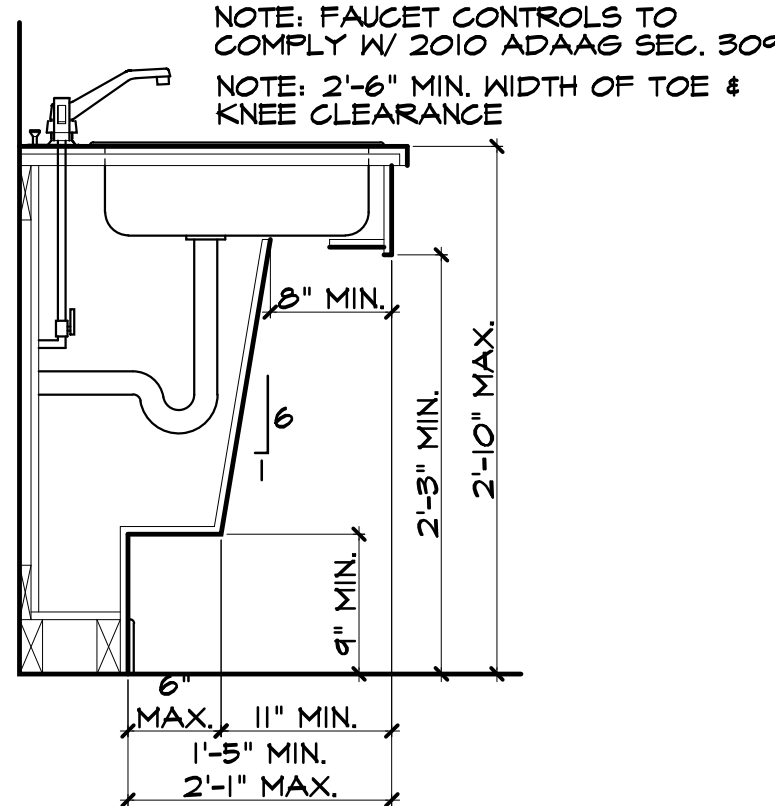
ELEVATION D
SCALE: 1/2" = 1'-0"



ELEVATION E
SCALE: 1/2" = 1'-0"



ELEVATION F
SCALE: 1/2" = 1'-0"



ACCESSIBLE SINK DETAIL
PER 2010 ADAAG SECS. 212 & 606

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SUMMIT VIEW FARMS
POOL HOUSE
LEE'S SUMMIT, MISSOURI

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Weston E. Coble
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KSH 6705
MO# A-2016011206

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project no. 20091
date 01/28/2021
revised
design by W.C.
drawn by A.H.
struct. by APEX

interior
bathroom
elevations
sheet no.

A-3

NOTES - FOUNDATION

1. CONTRACTOR SHALL BE FULLY FAMILIAR WITH IBC CHAPTER 18 FOR USE OF PRESUMPTIVE LOAD-BEARING CAPACITY.
2. CONTRACTOR SHALL USE IBC SPECIFICATIONS AND DETAILS FOR PLACEMENT OF PERIMETER DRAINS, UNDER-SLAB DRAINS, AND ANY OTHER SOILS-RELATED ITEMS.
3. ALL FOUNDATIONS TO BEAR ON ORIGINAL, UNDISTURBED SOIL. REMOVE ANY MUD, ORGEXIC SILT, ORGANIC CLAYS, PEAT OR UNPREPARED FILL PRIOR TO PLACING FOUNDATIONS.
4. ALL FOOTING EXCAVATIONS TO BE APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE.
5. ALL FOOTINGS SHALL EXTEND BELOW FROST DEPTH, REFERENCE DESIGN INFORMATION FOR FROST DEPTH.

NOTES - CONCRETE

1. ALL CONCRETE CONSTRUCTION TO CONFORM TO ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", THE GOVERNING EDITION OF THE ACI 318, AND ACI "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" ACI 301, UNLESS NOTED OTHERWISE.
2. WATER REDUCING ADD MIXTURES ARE ALLOWED IN CONCRETE MIX DESIGNS.
3. SYNTHETIC MICRO-FIBERS ARE NOT ALLOWED UNLESS SPECIFICALLY NOTED IN THESE DRAWINGS.
4. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3/4" CHAMFERS AT THE EDGES THAT ARE EXPOSED TO VIEW IN THE FINISHED STRUCTURE.
5. REFERENCE ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIP SLOTS, REGLES, MASONRY, ANCHORS, BRICK LEDGE ELEVATIONS AND FOR MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC.
6. REFERENCE ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF ACI 301.
7. REFERENCE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR DRAINS, SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS, ETC.
8. CONTACT APEX ENGINEERS, INC. IF HOUSE KEEPING PADS OR INERTIA BASES ARE REQUIRED BEYOND WHAT IS SHOWN IN THE STRUCTURAL CONTRACT DOCUMENTS.
9. ALL REINFORCING STEEL TO BE DETAILED IN ACCORDANCE WITH ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES."
10. REINFORCING SHALL BE CONTINUOUS WHEREVER POSSIBLE. SPLICES AND LAPS TO CONFORM TO ACI 318. REFER TO CONCRETE REBAR SCHEDULE.
11. DOWELS IN FOOTING, WALLS, AND DRILLED PIERS MUST BE IN POSITION BEFORE PLACING CONCRETE WHENEVER POSSIBLE.
12. REFERENCE TYPICAL FOUNDATION DETAILS FOR INFORMATION ON REINFORCING REQUIREMENTS AT WALL AND SLAB OPENINGS.
13. REFERENCE TYPICAL FOUNDATION DETAILS FOR INFORMATION ON REINFORCING REQUIREMENTS AT CORNER AND TEE INTERSECTIONS.
14. PROVIDE VERTICAL CONTROL JOINTS ON ALL POURED CONCRETE WALLS AND BASEMENT WALLS. SPACE JOINTS AT 3 x WALL HEIGHT FOR WALLS LESS THAN 10'-0" AND WALL HEIGHT FOR TALLER WALLS. PROVIDE ADDITIONAL JOINT WITHIN 10'-0" OF CORNERS.
15. OPENINGS IN SLAB OF 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFERENCE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.

NOTES - ROUGH CARPENTRY

1. CONTRACTOR IS RESPONSIBLE TO ADEQUATELY SHORE AND BRACE ALL FLOOR AND ROOF FRAMING AND WALLS DURING CONSTRUCTION.
2. NAILING: SHALL BE PER FASTENING SCHEDULE OF THE INTERNATIONAL BUILDING CODE. FOR PREFABRICATED CONNECTORS USE ALL FASTENERS AS PRESCRIBED BY THE MANUFACTURER.
3. ALL POST AND JAMBS ARE TO BE BLOCKED SOLID WITH THE SAME NUMBER OF PIECES AS THE POST OR JAMB WITHIN THE FLOOR SPACE AND CONTINUOUS TO THE FOUNDATION LEVEL. BLOCKING IS TO ALIGN WITH POST OR JAMBS.
4. SPECIES AND GRADES SHOWN IN SCHEDULE ARE THE MINIMUM ACCEPTABLE. BETTER GRADES MAY BE SUBSTITUTED.
5. PRESSURE TREATED WOOD TO BE USED WHEN EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE OR MASONRY.
6. WOOD STRUCTURAL PANELS TO BE A P.A. RATED AND EXPOSURE 1. PANELS TO BE MANUFACTURED PER U.S. DEP. OF COMMERCE PRODUCT STANDARDS PS1 OR PS2.
7. ANY FASTENERS OR CONNECTORS TO AND THROUGH TREATED WOOD SHALL BE FASTENED WITH ASTM A153 CLASS D HOT DIP GALVANIZED OR STAINLESS STEEL FASTENERS.
8. WOOD FRAMING WILL HAVE SHRINKAGE. THE CONTRACTOR SHALL COORDINATE REQUIREMENTS TO ACCOMMODATE SHRINKAGE WITH OTHER TRADES.
9. BORED HOLES FOR HORIZONTAL PLUMBING PIPING SHALL BE PROVIDED WITH FLEXIBLE JOINTS TO PERMIT MOVEMENT.
10. RIGID ELECTRICAL CONDUIT INSTALLED VERTICALLY SHALL BE PROVIDED WITH FLEXIBLE JOINTS TO PERMIT MOVEMENT.
11. ALL DIMENSIONAL LUMBER SHALL BE GRADE STAMPED WITH MOISTURE CONTENT NOT TO EXCEED 19%.
12. INCISED STRUCTURAL LUMBER NOT PERMITTED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
13. DIMENSIONAL LUMBER SIZES SHOWN ON PLANS ARE NOMINAL DIMENSIONS. DRESSED SIZES PUBLISHED IN THE LATEST EDITION OF AMERICAN SOFTWOOD LUMBER PS20 SHALL BE ACCEPTED AS MINIMUM NET SIZES CONFORMING TO SUCH NOMINAL SIZES.
14. WOOD HEADERS SHALL HAVE A FULL 3" LENGTH OF BEARING AT EACH END UNO.
15. ALL BEAMS AND JOISTS NOT BEARING ON SUPPORTING MEMBERS SHALL BE FRAMED WITH PREFABRICATED METAL JOIST HANGERS FOR REQUIRED CAPACITY. ALL PREFABRICATED METAL HARDWARE IS BY SIMPSON STRONG-TIE COMPANY OR APPROVED EQUIVALENT. CONNECTIONS IN CONTACT WITH PRESSURE TREATED WOOD SHALL HAVE G185 GALVANIZED COATING PER ASTM A653 AND HOT DIPPED GALVANIZED FASTENERS PER ASTM A153. ALTERNATE CORROSION RESISTANT CONNECTIONS IN ACCORDANCE WITH IBC WILL BE CONSIDERED. PRIOR WRITTEN APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD IS REQUIRED.
16. WALL, FLOOR, AND ROOF SHEATHING NAILS SHALL HAVE FULL HEADS. CLIPPED NAILS ARE NOT ALLOWED IN THESE APPLICATIONS.
17. NAIL TYPE USED IN WALL, FLOOR, AND ROOF WSP SHEATHING SHALL BE COMMON OR GALVANIZED BOX NAILS. SINKER NAILS, COOLER NAILS, ETC ARE NOT PERMITTED IN THESE APPLICATIONS.
18. ALL SIDE LOADED LVL BEAMS TO BE FASTENED TOGETHER PER MANUFACTURER REQUIREMENTS.
19. ALL MULTI-PLY BEAMS TO BE SUPPORTED BY STUD PACK WITH ONE ADDITIONAL STUD THAN BEAM PLYS.

NOTES - GENERAL

1. THESE DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
4. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
5. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.
6. UNLESS OTHERWISE NOTED, FIREPROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFERENCE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE PROOFING METHODS AND MATERIALS.
7. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS SHOWN ON PLANS.
8. THE CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE ARCHITECT/ENGINEER'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS HE HAS SPECIFICALLY INFORMED THE ARCHITECT/ENGINEER OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ARCHITECT/ENGINEER HAS GIVEN WRITTEN APPROVAL TO THE SPECIFIC DEVIATION.
9. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR WRITTEN INTERPRETATION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE ARCHITECT/ENGINEER BEFORE THE AFFECTED WORK PROCEEDS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING, FABRICATION AND INSTALLATION. THE CONTRACTOR SHALL MAKE ALL MEASUREMENTS IN THE FIELD NECESSARY TO VERIFY OR SUPPLEMENT DIMENSIONS SHOWN ON THE CONTRACT DRAWINGS AND HE SHALL VERIFY THAT ALL DIMENSIONS SHOWN ON THE SHOP DRAWINGS ARE COORDINATED WITH THE DIMENSIONS AND REQUIREMENTS OF THE CONTRACT DRAWINGS. REVIEW OF THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLETING THE WORK SUCCESSFULLY IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIFICATIONS.
11. SUBMIT PRINTS OR ELECTRONIC COPIES OF EACH SHOP DRAWINGS. REPRODUCIBLE COPIES OF CONTRACT DOCUMENTS SHALL NOT BE USED AS SHOP DRAWINGS. SHOP DRAWINGS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMISSION. CONTRACTOR STAMP SHOP DRAWINGS ACCEPTING RESPONSIBILITY FOR COORDINATION OF DIMENSIONS SHOWN IN THE CONTRACT DOCUMENTS, QUANTITIES AND COORDINATION WITH OTHER TRADES. DRAWINGS NOT BEARING CONTRACTOR'S STAMP MAY BE REJECTED AT THE DISCRETION OF THE ARCHITECT OR STRUCTURAL ENGINEER.
12. REVIEW AND RETURN OF SHOP DRAWINGS SHALL BE BASED ON A MINIMUM OF TEN (10) WORKING DAYS IN THE STRUCTURAL ENGINEER'S OFFICE FROM RECEIPT OF SUBMISSION TO RETURN TO THE NEXT PARTY FOR THEIR ACTION. SHOP DRAWINGS SHOULD BE SUBMITTED INCREMENTALLY AS APPROPRIATE PACKAGES ARE PREPARED TO EQUALIZE THE WORKLOAD FOR REVIEW OF THE DRAWINGS. SUBMISSION OF A LARGE VOLUME OF SHOP DRAWINGS AT ONE TIME MAY RESULT IN REVIEW TIMES WHICH WILL EXCEED THOSE NOTED ABOVE. DEFINITION OF A "LARGE VOLUME" OF SHOP DRAWINGS IS SUBJECT TO INTERPRETATION.

NOTES - DEFERRED SUBMITTALS

1. THE ARCHITECT OR ENGINEER OF RECORD SHALL LIST THE DEFERRED SUBMITTALS ON THE PLANS FOR REVIEW BY THE BUILDING OFFICIAL.
2. DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN THE GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING.
3. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
4. DEFERRED SUBMITTALS ARE DEFINED AS THOSE PORTIONS OF THE DESIGN THAT ARE NOT SUBMITTED AT THE TIME OF THE APPLICATION AND THAT ARE TO BE SUBMITTED TO THE BUILDING OFFICIAL WITHIN A SPECIFIED PERIOD.
5. DEFERRAL OF ANY SUBMITTAL ITEMS SHALL HAVE THE PRIOR APPROVAL OF THE BUILDING OFFICIAL.
6. SUBMITTALS SHALL INCLUDE DETAILED DRAWINGS OF EACH MEMBER AND ITS CONNECTIONS ALONG WITH SUPPORTING CALCULATIONS PREPARED UNDER THE SUPERVISION, BEARING THE SEAL AND SIGNATURE, OF A LICENSED PROFESSIONAL ENGINEER IN THE PROJECT JURISDICTION.
7. DEFERRED SUBMITTAL ITEMS:
 - PREFABRICATED WOOD TRUSSES
 - STEEL GUARDRAILS AND HANDRAILS
 - STEEL FABRICATED STAIRS AND LADDERS
 - PRE-MANUFACTURED CANOPIES AND AWNINGS

NOTES - MASONRY VENEER

1. PROVIDE MINIMUM 1" AIR SPACE BETWEEN BRICK AND SHEATHING.
2. REFERENCE ARCHITECTURAL FOR ADDITIONAL BRICK NOTES AND/OR REQUIREMENTS.
3. PROVIDE MINIMUM W1.7 (9 GAGE, MW11) ADJUSTABLE WIRE ANCHORS, HOT-DIPPED GALVANIZED, TWO-PIECE PER ASTM A-153, CLASS B-2.
4. ANCHORS ATTACHED TO WALL STUDS THROUGH SHEATHING, NOT SHEATHING ALONE.
5. PROVIDE MINIMUM ONE ANCHOR PER 2.67 FT² OF WALL AREA. MAXIMUM VERTICAL SPACING IS 18" OC MAXIMUM HORIZONTAL SPACING IS 32" OC.
6. PROVIDE ADDITIONAL ANCHORS AROUND OPENINGS LARGER THAN 16" IN EITHER DIMENSION. SPACE ANCHORS AROUND PERIMETER OF OPENINGS AT A MAXIMUM OF 36" OC. PLACE ANCHORS WITHIN 12" OF OPENINGS.

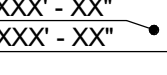
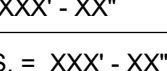
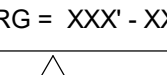
NOTES - SHOP DRAWING SUBMITTALS

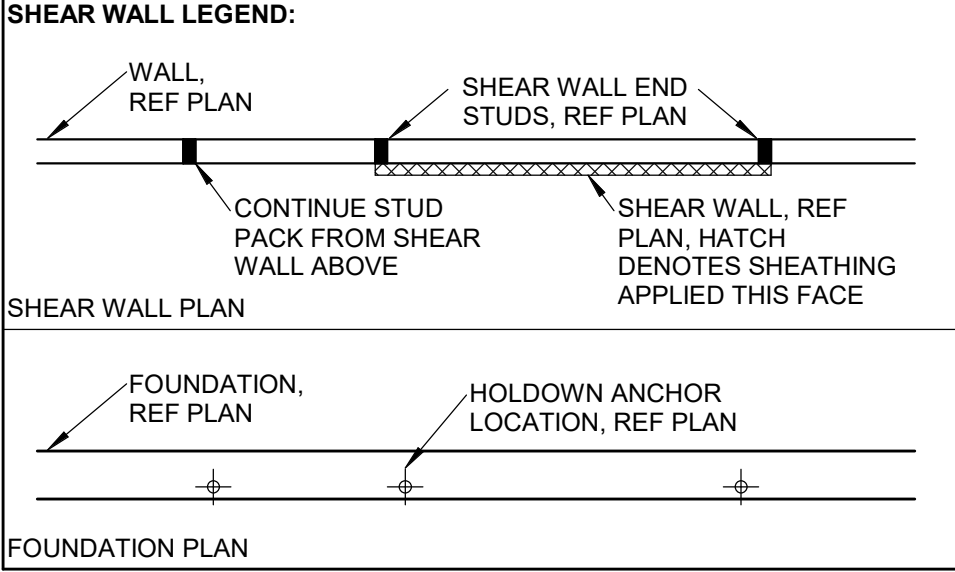
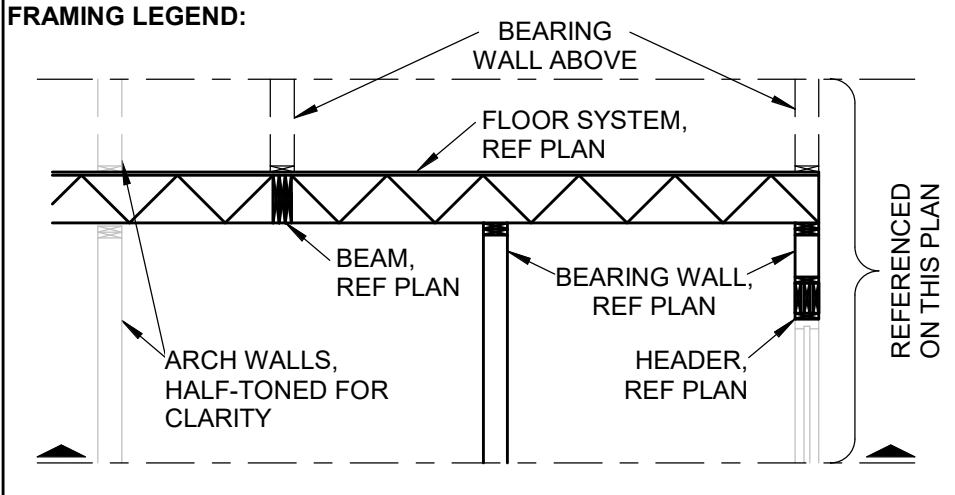
1. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY ARCHITECTURAL SPECIFICATIONS. SHOP DRAWING REVIEW IS INTENDED FOR VERIFICATION OF DESIGN CONCEPT CONVEYANCE AND GENERAL CONFORMANCE TO CONTRACT DOCUMENTS ONLY.
2. CHANGES, SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DOCUMENTS SHALL BE CLOUDED BY MANUFACTURER/FABRICATOR. ANY OF THE AFOREMENTIONED WHICH ARE NOT CLOUDED OR FLAGGED BY SUBMITTING PARTIES SHALL NOT BE CONSIDERED APPROVED AFTER ENGINEER'S REVIEW, UNO.
3. SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS SHOWN INCORRECTLY OR OMITTED AND NOT FLAGGED BY THE ENGINEER DURING REVIEW ARE NOT TO BE CONSIDERED CHANGES TO THE CONTRACT DOCUMENTS.
4. THE ADEQUACY OF ENGINEERING DESIGNS AND LAYOUT PERFORMED BY OTHERS RESTS WITH THE DESIGNING OR SUBMITTING AUTHORITY. DESIGNED SHOP DRAWINGS SHALL BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER.
5. SHOP DRAWINGS MUST BE ORIGINAL DOCUMENTS. REPRODUCTION OF ANY PORTION OF THE CONTRACT DOCUMENTS FOR USE IN SUBMITTALS IS NOT PERMITTED AND MAY RESULT IN REJECTION.
6. THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANY TIME BEFORE OR AFTER SHOP DRAWING REVIEW.
7. CONTRACTOR SHALL SUBMIT STRUCTURAL SHOP DRAWINGS FOR THE FOLLOWING:
 - CONCRETE MIX DESIGN, MATERIALS, AND TEST REPORTS
 - CONCRETE REINFORCING STEEL, HARDWARE, AND FASTENERS
 - ROUGH CARPENTRY HARDWARE, AND FASTENERS
 - ENGINEERED WOOD FRAMING

MATERIAL SPECIFICATIONS

STEEL MATERIAL SPECIFICATIONS						
STEEL MEMBERS		MATERIAL				
WIDE FLANGE SHAPES (W)		ASTM A992				
CHANNELS (C), ANGLES (L)		ASTM A36				
PLATES		ASTM A36				
HOLLOW STRUCTURAL SHAPES (HSS)		ASTM A500, GRADE C				
HIGH STRENGTH BOLTS		ASTM F3125, GRADE A325				
ANCHOR BOLTS (HEX-HEAD UNO)		ASTM F1554 (55 ksi) "S1"				
EPOXY ANCHOR RODS		ASTM A36				
STEEL DECK, PLAIN STEEL		ASTM A1008, (33 ksi)				
STEEL DECK, GALVANIZED		ASTM A653, (33 ksi)				
NON-SHRINK GROUT, COL. BASES		5000 psi (28 DAY STRENGTH)				
CONCRETE & REINFORCING STEEL SPECIFICATIONS						
MATERIAL		SPECIFICATION				
REINFORCING BARS		ASTM A615, GRADE 60				
WELDED WIRE FABRIC		ASTM A1064				
PORTLAND CEMENT		ASTM C 150				
FLY ASH		ASTM C 618, 15% MAX				
CONCRETE AGGREGATES		ASTM C 33, 3/4" MAX AGG. SIZE.				
EPOXY - THREADED ROD ANCHORS		HLTI HIT-HY 200 A OR SIMPSON SET 3G				
EPOXY - REINFORCING BARS		HLTI HIT-HY 200 R OR SIMPSON SET 3G				
REBAR CONDITION		MINIMUM CONCRETE COVER				
FORMED SURFACES EXPOSED TO GROUND OR WEATHER		2"				
UNFORMED SURFACE IN CONTACT WITH THE GROUND		3"				
WALLS AND SLABS NOT EXPOSED TO GROUND OR WEATHER		1"				
INTERIOR BEAMS AND COLUMNS (TIES OF STIRRUPS)		1 1/2"				
CONCRETE MIX DESIGN REQUIREMENTS						
CONCRETE USE	WEIGHT	28 DAY Fc	CEMENT TYPE	MAX W/C RATIO	SLUMP (HI-1")	% AIR
FOOTINGS	NW	3500 psi	I/II	0.55	5"	6% MAX
INT. SLAB ON GRADE	NW	4000 psi	I/II	0.45	5"	3% MAX
CONCRETE SLAB SPECIFICATIONS						
FLOOR FLATNESS, F _f				SOV: 35 MLV: 25		
FLOOR LEVELNESS, F _L				SOV: 24 MLV: 17		
WOOD MATERIAL SPECIFICATIONS				MATERIAL SPECIFICATION		
MEMBERS				No. 2 DFL		
JOIST, RAFTERS, HEADERS, BEAMS				No. 2 So. Pine		
TREATED LUMBER				No. 2 SPF		
STUDS, BEARING WALL				No. 2 SPF		
SILL AND TOP PLATES				No. 2 SPF		
GLULAM BEAMS				DF/DF		
SINGLE SPAN				24F-V4		
MULTI SPAN				24F-V8		
LAMINATED VENEER LUMBER, LVL				Fb = 2600 psi, E = 1.9 x 10E6 psi		
LAMINATED STRAND LUMBER, LSL				Fb = 1700 psi, E = 1.3 x 10E6 psi		
PARALLEL STRAND LUMBER, PSL				Fb = 1700 psi, E = 1.3 x 10E6 psi		
BOLTS AND THREADED RODS				ASTM A307 (MIN.)		
NAIL SIZE REFERENCE						
COMMON NAIL			BOX NAIL			
SIZE	DIAMETER	LENGTH	SIZE	DIAMETER	LENGTH	
8d	0.131"	2 1/2"	8d	0.113"	2 1/2"	
10d	0.148"	3"	10d	0.128"	3"	
16d	0.162"	3 1/2"	16d	0.135"	3 1/2"	
VENEER MASONRY MATERIAL SPECIFICATIONS						
MATERIAL			SPECIFICATION			
BRICK MASONRY UNITS			ASTM C-62			
MORTAR			ASTM C-270, TYPE N OR S			

SYMBOLS / ABBREVIATIONS

SYMBOL/TAG	DESCRIPTION	APPLIES TO	
	DETAIL ON SHEET SHEET NUMBER	DETAILS, SECTIONS, & ELEVATIONS	
	ELEVATION (TOP) ELEVATION (BOTTOM)	FOOTINGS AND FOUNDATION WALLS	
	ELEVATION MARK	LEVELS, SPOT ELEVATIONS, & PLAN ELEVATIONS	
	TOP OF STEEL ELEVATION	PLAN VIEW NOTATIONS	
	JOIST BEARING ELEVATION	PLAN VIEW NOTATIONS	
	REVISION MARK	SHEET REVISIONS	
ABV	DEFINITION	ABV	DEFINITION
AB	ANCHOR BOLT	SIM	SIMILAR CONDITION
CJ	CONTRACTION JOINT	STD	STANDARD
CL	CENTERLINE	TOC	TOP OF CONCRETE
DIA	DIAMETER	TOD	TOP OF DECK
EOD	EDGE OF DECK ANGLE	TOL	TOP OF LEDGE
EOS	EDGE OF SLAB	TOM	TOP OF MASONRY
EXT	EXTERIOR	TOS	TOP OF STEEL
GA	GAUGE	TOW	TOP OF WALL
HAS	HEADED ANCHOR STUDS	TYP	TYPICAL CONDITION
OC	ON CENTER	UNO	UNLESS NOTED OTHERWISE
PAF	POWDER ACTUATED FASTNR	WP	WORK POINT



NOTES - PREFAB WOOD TRUSSES

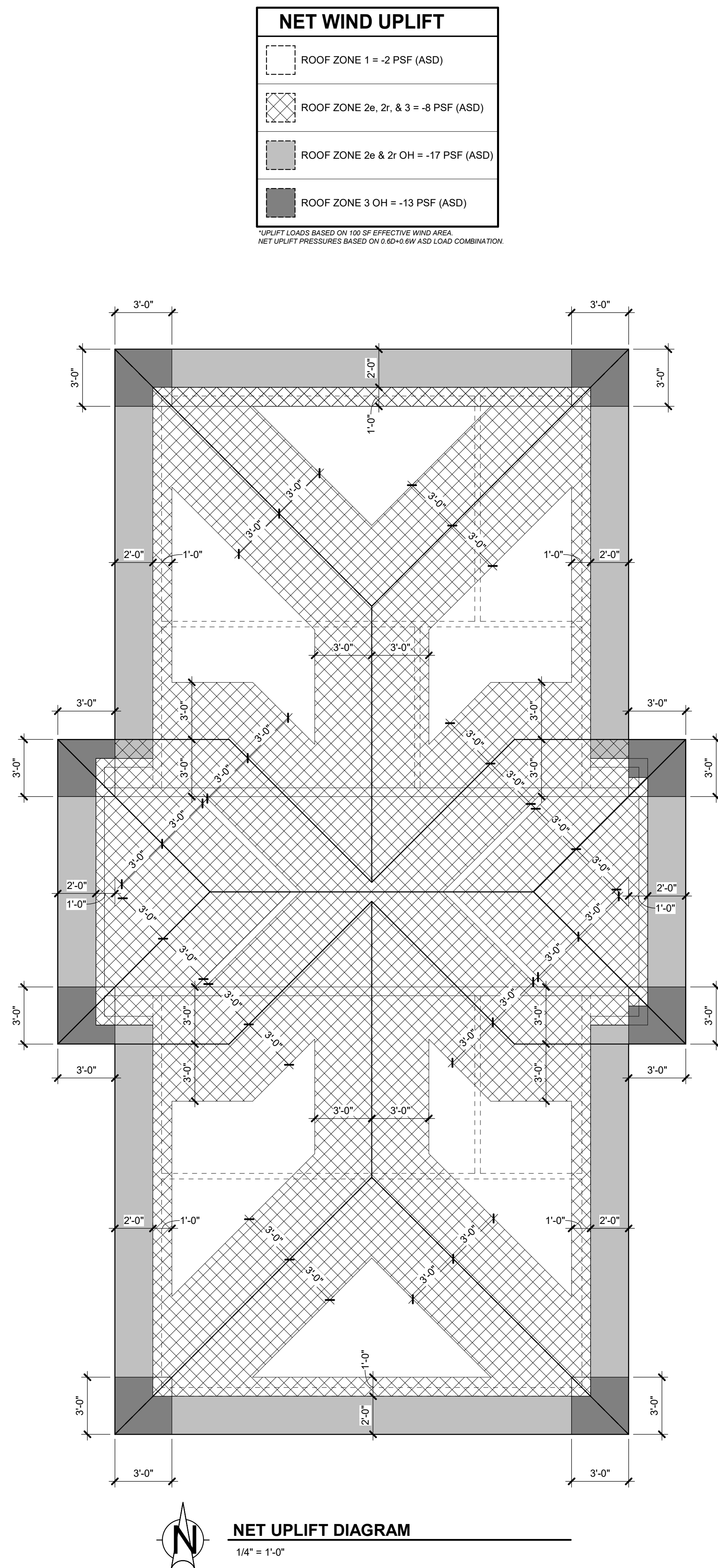
1. TRUSSES TO BE DESIGNED AND ERECTED IN CONFORMANCE WITH TRUSS PLATE INSTITUTE SPECIFICATIONS AND RECOMMENDATIONS AND IN ACCORDANCE WITH LOCAL BUILDING CODES.
2. TRUSSES TO BE BRACED PER MANUFACTURER'S RECOMMENDATIONS DURING ERECTION.
3. TRUSSES SHALL BE LATERALLY SUPPORTED AT ALL PANEL POINTS.
4. TRUSS MANUFACTURER IS TO SUBMIT LAYOUT PLANS AND CALCULATIONS FOR ALL TRUSSES. THE CALCULATIONS ARE TO BEAR A LICENSED PROFESSIONAL ENGINEER'S SEAL, IN THE STATE OF WHICH THE PROJECT IS LOCATED. CALCULATIONS ARE TO SHOW LOADINGS, SPACING, STRESSES, CONFIGURATION, CONNECTIONS, GRADE OF MATERIAL, CAMBER, AND DEFLECTIONS.
5. FLOOR AND ROOF TRUSSES NOTED AS A DRAG TRUSS SHALL BE DESIGNED TO TRANSFER OR CARRY AXIAL LOAD NOTED ON FRAMING PLANS ACTING ALONG TRUSS TOP CHORD AND SHALL BE RESISTED ALONG BOTTOM CHORD OVER LENGTH NOT GREATER THAN LENGTH OF SHEAR WALL NOTED ON PLANS (IF APPLICABLE).
6. TRUSSES SHALL NOT BE NOTCHED, DRILLED, CUT, OR ALTERED WITHOUT WRITTEN APPROVAL OF THE TRUSS MANUFACTURER'S ENGINEER. PROPOSED MODIFICATIONS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO MODIFICATION.
7. THE WOOD TRUSS MANUFACTURER SHALL BE REGISTERED AND APPROVED PER IBC SECTION 1704.5.2 FOR FABRICATION WITHOUT SPECIAL INSPECTION.
8. FLAT ROOF TRUSSES SHALL BE DESIGNED FOR AN ADDITIONAL LOAD OF MIN (2) 200 LB POINT LOADS SPACED AT 6'-0" APART ANYWHERE ALONG THE TOP CHORD FOR MECH CONDENSORS. MECH CONDENSORS SHALL BE PLACED SUCH THAT THEY ARE SUPPORTED BY AT LEAST (2) ROOF TRUSSES.

DESIGN INFORMATION

BUILDING CODE:						
2018 INTERNATIONAL BUILDING CODE AS ADOPTED AND/OR AMENDED BY LOCAL BUILDING CODES						
SOILS INFORMATION:						
THE FOUNDATION DESIGN PROVIDED IS BASED OFF OF A MINIMUM ALLOWABLE PRESUMPTIVE LOAD-BEARING VALUE AS INDICATED BY IBC TABLE 1806.2 IN LIEU OF A SITE BASE GEOTECHNICAL EVALUATION. IT IS RECOMMENDED THAT A QUALIFIED GEOTECHNICAL ENGINEER BE RETAINED TO VERIFY THESE ASSUMPTIONS PRIOR TO CONSTRUCTION. BY USE OF THIS FOUNDATION DESIGN WITHOUT PROVIDING SUCH VERIFICATION, APEX WILL NOT BE LIABLE FOR THIS DESIGN PARAMETER, AND THE OWNER SHALL ACCEPT ALL RISKS ASSOCIATED WITH DAMAGE TO THE STRUCTURE AS A RESULT OF EXPANSIVE, COMPRESSIBLE, SHIFTING AND/OR OTHER QUESTIONABLE SOILS CHARACTERISTICS THAT MAY BE PRESENT ON-SITE.						
FROST DEPTH				36"		
PRESUMPTIVE LOAD-BEARING PRESSURE				1500 psf		
WIND DESIGN DATA:				Main Building		
OCCUPANCY CATEGORY				II		
ULTIMATE WIND SPEED (3 SECOND GUST), V				110 mph		
WIND EXPOSURE CATEGORY				C		
VELOCITY PRESSURE, q _z				22.4 psf		
INTERNAL PRESSURE COEFFICIENT, GC _{zi}				+/-0.18		
WIND DESIGN COMPONENTS & CLADDING DATA:				Main Building		
EDGE REGION, a				3' - 0"		
WALL ZONES		10 SF	20 SF	50 SF	100 SF	200 SF
4 & 5		26 psf	25 psf	24 psf	22 psf	21 psf
4		-29 psf	-27 psf	-26 psf	-25 psf	-24 psf
5		-35 psf	-33 psf	-30 psf	-27 psf	-25 psf
ROOF ZONES		10 SF	20 SF	50 SF	100 SF	200 SF
All Zones		19 psf	17 psf	13 psf	11 psf	11 psf
1		-22 psf	-31 psf	-26 psf	-22 psf	-22 psf
2a, 2b & 3		-24 psf	-41 psf	-37 psf	-32 psf	-29 psf
1 OH		-24 psf	-44 psf	-45 psf	-45 psf	-44 psf
2a & 2b OH		-26 psf	-57 psf	-54 psf	-51 psf	-49 psf
3 OH		-28 psf	-62 psf	-52 psf	-45 psf	-38 psf
SEISMIC DESIGN SITE DATA:						
SPECTRAL RESPONSE COEFFICIENTS				S _s = 0.100 S ₁ = 0.068		
SITE CLASS (ASSUMED)				D		
DESIGN SPECTRAL RESPONSE ACCELERATIONS				S _{DS} = 0.167 S _{DI} = 0.109		
SEISMIC ANALYSIS PROCEDURE				EQUIVALENT LATERAL FORCE		
SEISMIC DESIGN BUILDING DATA:				Main Building		
LATERAL SYSTEM: A. BEARING WALL SYSTEMS, NO. 15. LIGHT-FRAME (WOOD) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE OR STEEL SHEETS						
RESPONSE MODIFICATION, R				6.50		
DEF. AMPLIFICATION FACTOR, C _d				4.00		
OVERSTRENGTH FACTOR, Ω				3.00		
SEISMIC RESPONSE COEFF., C _s				0.016		
SEISMIC BASE SHEAR, V				0.8 kip		
SEISMIC DESIGN CATEGORY				B		
SEISMIC RISK CATEGORY				II		
ROOF SNOW LOAD DATA:				Main Building		
GROUND SNOW LOAD, P _g				20 psf		
SNOW LOAD IMPORTANCE FACTOR, I _s				1.00		
SNOW EXPOSURE FACTOR, C _e				0.90		
THERMAL FACTOR, C _t				1.20		
SLOPE FACTOR, C _s				1.00		
ROOF SNOW LOAD, P _f				15 psf		

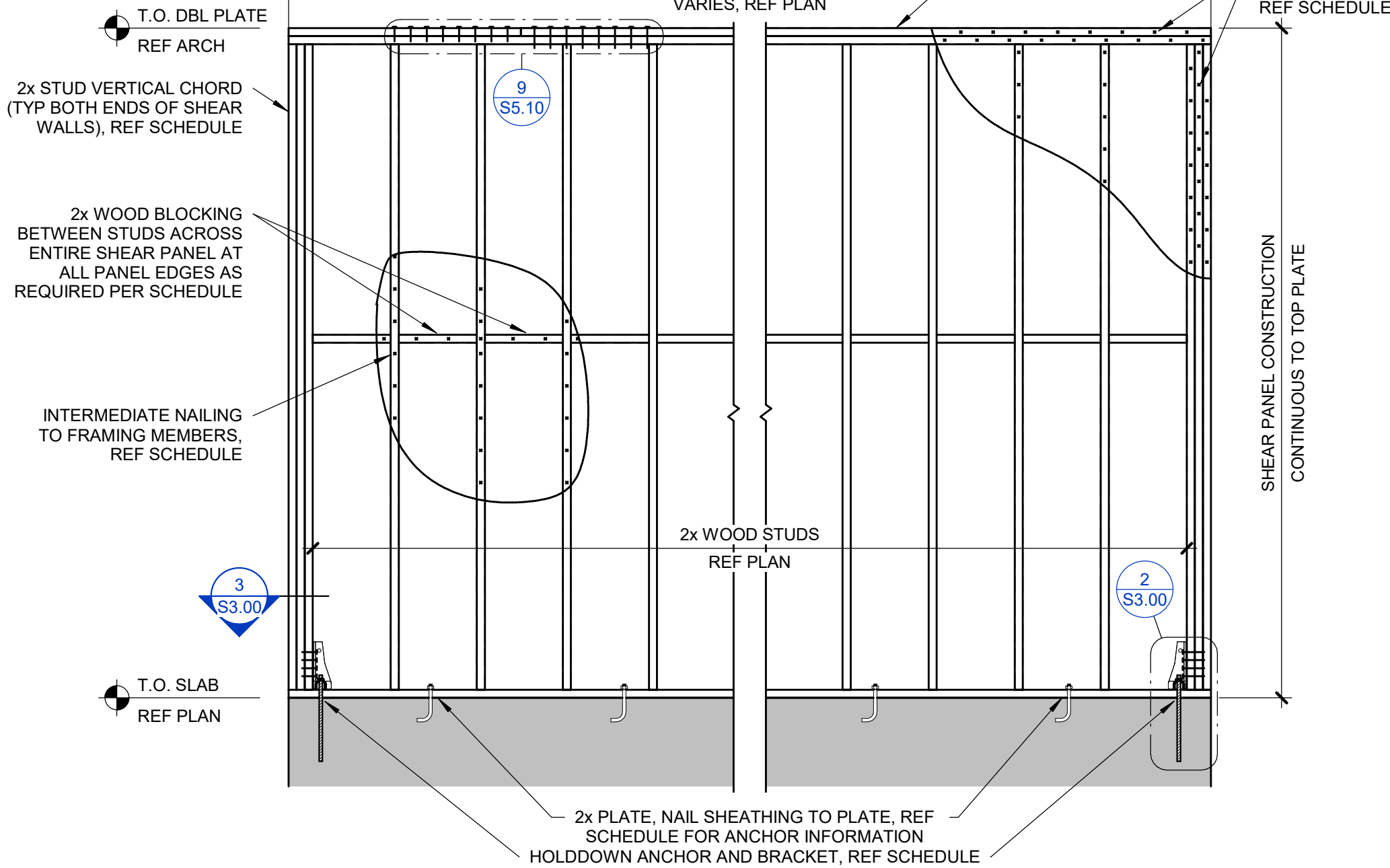
POOL HOUSE

LEE'S SUMMIT, MISSOURI





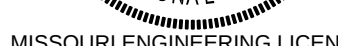
1. WSP = WOOD STRUCTURAL PANEL PLYWOOD OR OSB.
2. NAIL SIZES GIVEN ARE FOR COMMON NAILS OR GALVANIZED (HOT-DIPPED OR TUMBLE) BOX NAILS. SINKER NAILS, COOLER NAILS, ETC. SHALL NOT BE USED FOR WSP SHEAR WALLS.
3. SHEAR WALL NAILS SHALL HAVE FULL HEADS. CLIPPED NAILS ARE NOT ALLOWED.
4. ALL NAILS SHALL BE DRIVEN SUCH THAT THE HEAD IS FLUSH WITH FACE OF SHEATHING. DO NO OVERDRIVE NAILS.
5. PROVIDE INTERMEDIATE NAILING (FIELD) AT 12" OC, TYP.
6. PROVIDE (2) TOTAL RIMBOARDS OR A LAYER OF BLOCKING IN ADDITION TO THE RIMBOARD WHERE SOLE PLATE NAILING REQUIRES 2 ROWS OF FASTENERS PER SCHEDULE.
7. SILL ANCHORS MAY BE CAST-IN-PLACE J-BOLTS WITH 8" EMBED OR SIMPSON TITEN HD SCREW ANCHORS WITH 6" EMBED. REF SCHEDULE FOR BOLT DIAMETER. BOTH BOLT TYPES REQUIRE 0.229"x3"x3" PLATE WASHER WITH EDGE OF PLATE LOCATED WITHIN 1/2" OF SHEAR WALL SHEATHING.
8. AT WALLS DESIGNATED AS FORCE TRANSFER SHEAR WALLS, PROVIDE SIMPSON STRAP ABOVE AND BELOW ALL OPENINGS PER SHEAR WALL DETAIL.
9. END STUDS MUST CONTINUE DOWN TO FOUNDATION WALL UNLESS INTERRUPTED BY TRANSFER BEAM.
10. TRIM/JAMB STUDS OF OPENINGS DO NOT COUNT TOWARDS THE REQUIRED NUMBER OF END STUDS IN A SHEAR WALL.
11. PROVIDE DOUBLE STUDS AND BLOCKING NAILED TOGETHER WITH (2) 16d NAILS AT 6" OC OR 3" NOMINAL STUDS AND BLOCKING AT THE FOLLOWING CONDITIONS:
 - i. 2" OC EDGE NAIL SPACING
 - ii. 10d NAILS AT 3" OC OR SMALLER EDGE NAIL SPACING
 - iii. DOUBLE SIDED SHEAR WALL WHERE PANEL JOINTS ALIGN TO THE SAME STUD.
12. HOLDDOWNS AND STRAPS OCCUR AT THE BOTTOM OF WALLS. HOLDDOWNS AND STRAPS BETWEEN FLOORS ARE CONTROLLED BY THE WALL ABOVE.



1	WALL
S3.00	NO SCALE

THIS DETAIL IS TYPICAL TO THE PROJECT AND
MAY NOT BE CUT OR CALLED OUT ON PLANS

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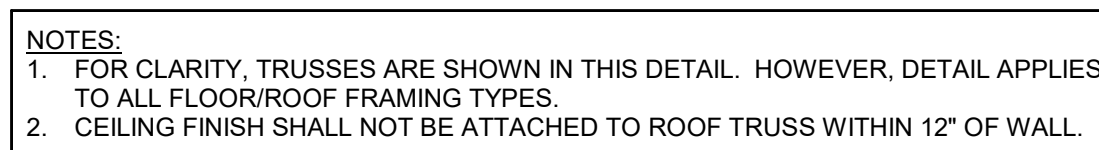
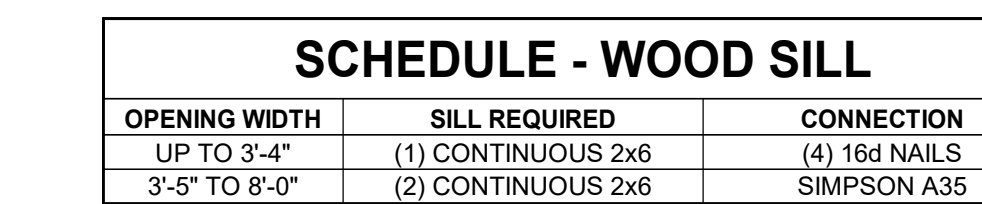


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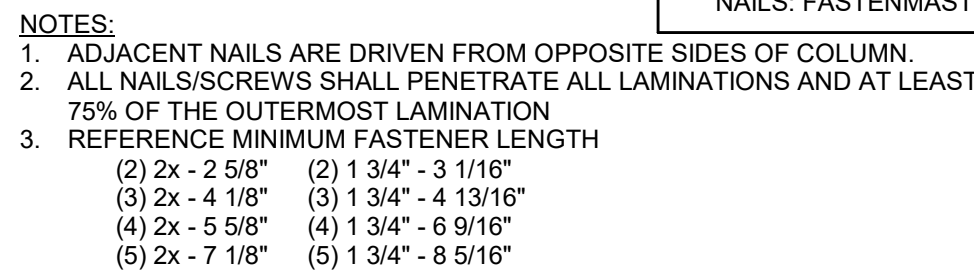
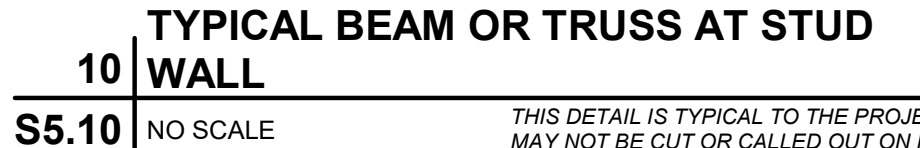
revised	
design by	APEX

TYPICAL WOOD DETAILS

£5 10



S5.10	$3/4" = 1'-0"$
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S5.10	NO SCALE
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PLATES:

WALL SIZE	HOLE SIZE	VERTICAL HOLE SIZE (H)
2 x 4	1 3/4"	D + 1/2" AT LVL'S 1&2
2 x 6	2 3/4"	D + 1" AT LVL 3
2 x 8	3 5/8"	D + 1-1/4" AT LVL 4
		D + 1-1/2" AT LVL 5

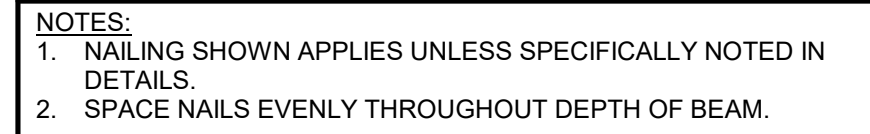
S5.10	NO SCALE
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S5.10	NO SCALE
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S5.10	NO SCALE
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S5.10	NO SCALE
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Release of third party consequences. The cooperation among the owner, the contractor, and the designer. Design and construction are complete. Although the designer and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is important and every contingency covered for participation any engineering or discrepancy discovered by the use of these plans shall be reported immediately to the designer. A failure to cooperate from responsibility for all consequences. Changes made from the plans without the consent of the designer are unauthorized and shall release the designer of responsibility for all consequences arising out of such changes. Contractor shall check and verify all dimensions.

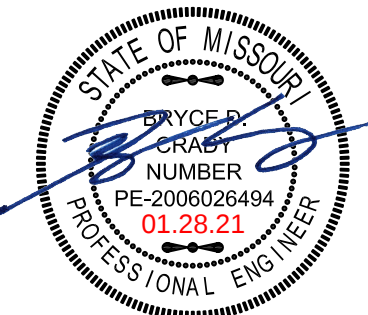


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SUMMIT VIEW FARMS
POOL HOUSE

LEE'S SUMMIT, MISSOURI

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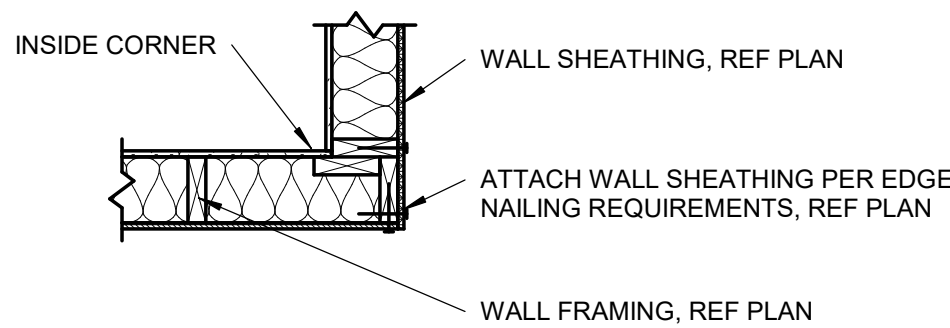
Bryce D. Crady
Structural Engineer
KSR 16799
MOR 2003004673

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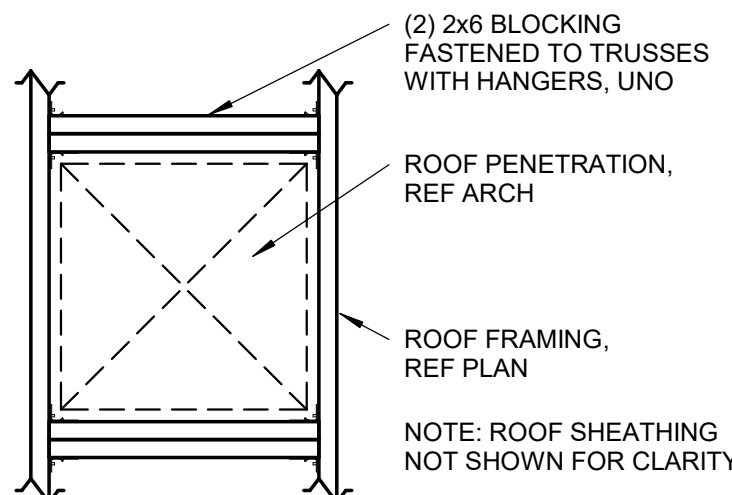
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date	1/28/2021
revised	
design by	APEX
drawn by	GLS
struct. by	GP

TYPICAL WOOD
DETAILS

sheet no.
S5.11

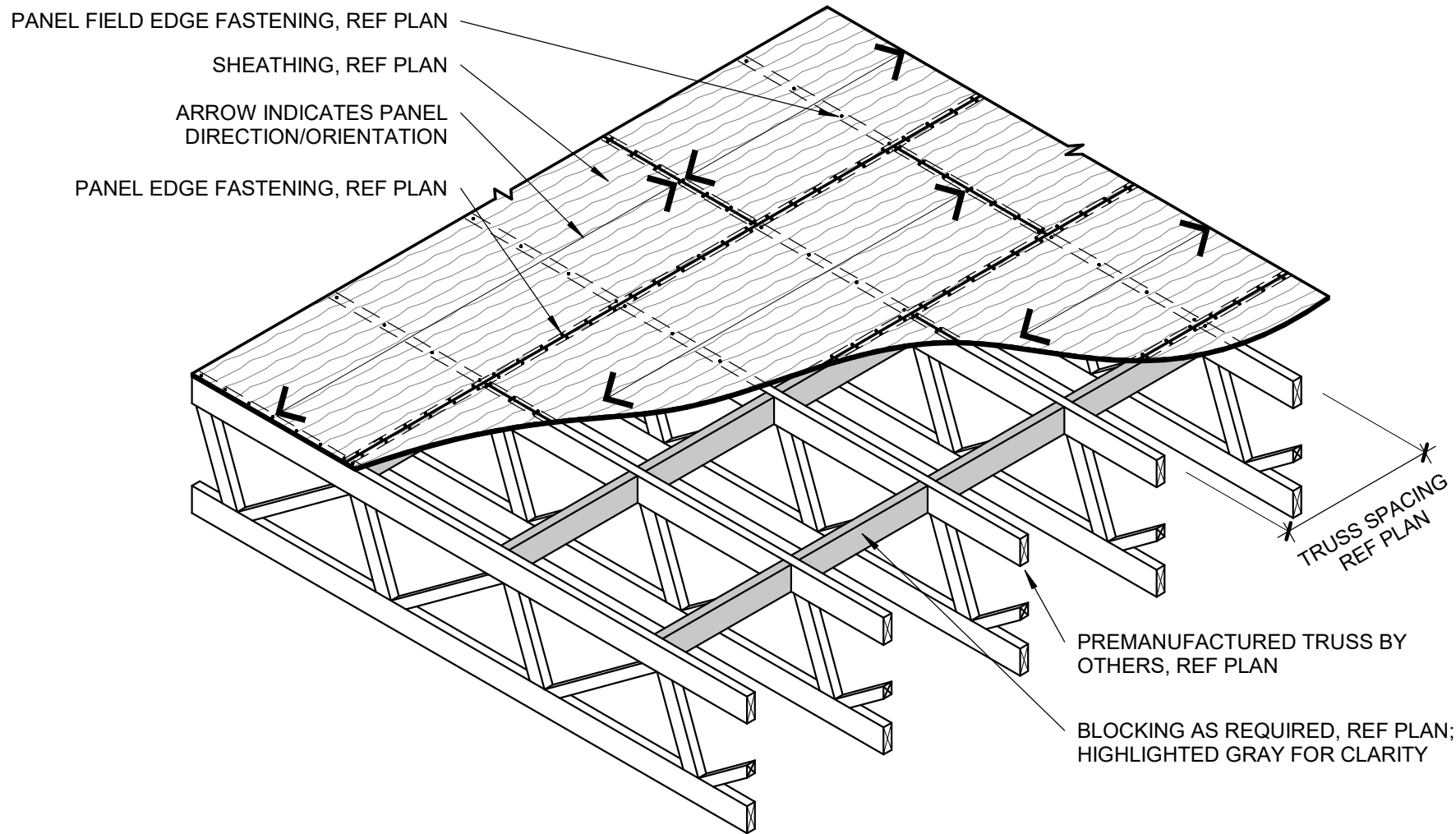


4 | TYPICAL THREE STUD CORNER
S5.11 NO SCALE THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



NOTE: THIS DETAIL APPLIES TO PENETRATIONS BETWEEN ROOF RAFTERS. CUTTING OF RAFTERS IS NOT PERMITTED.

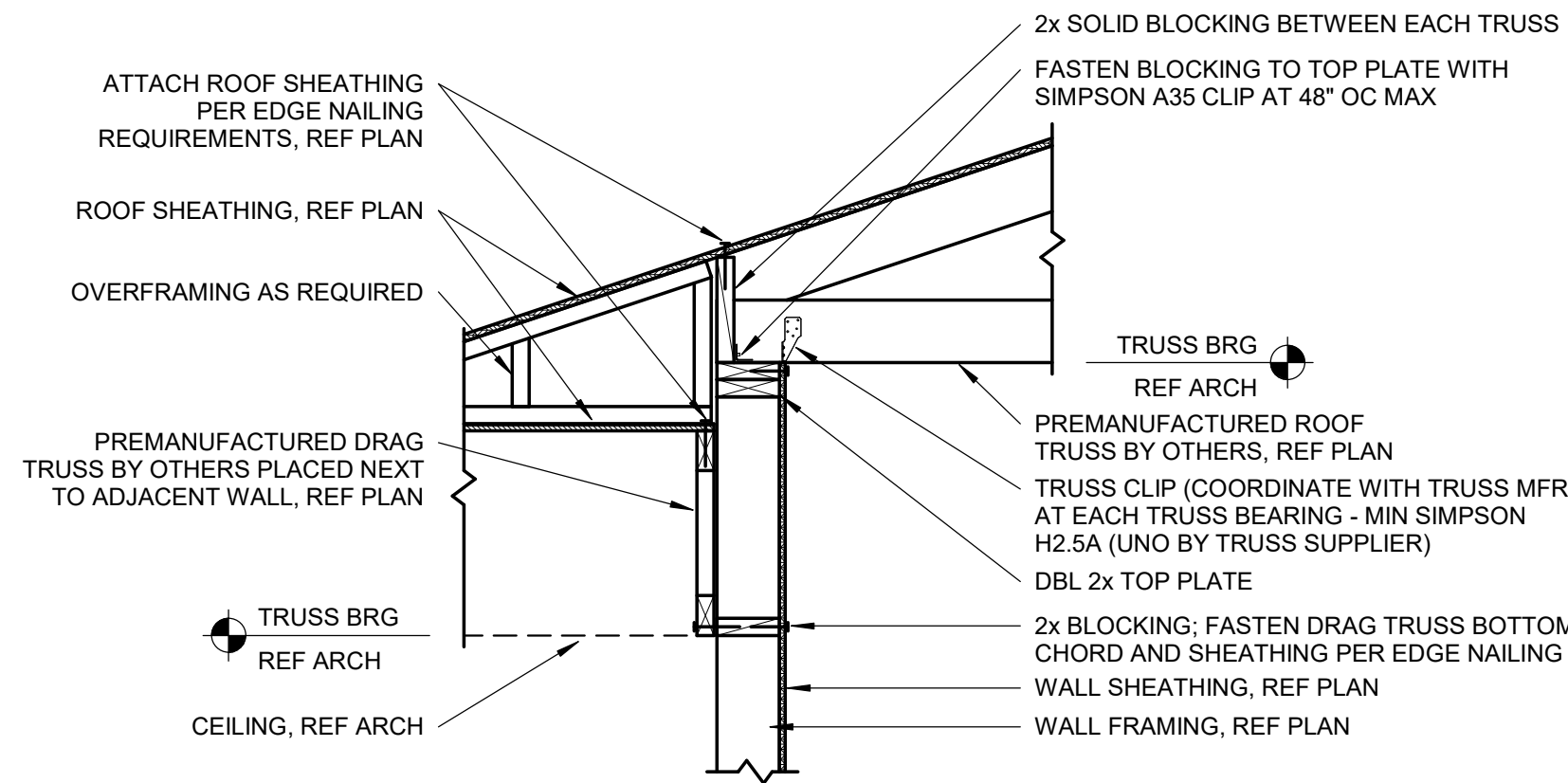
3 | TYPICAL ROOF PENETRATION DETAIL
S5.11 NO SCALE THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



- NOTES:**
1. NAILS TO BE COMMON NAILS OR GALVANIZED (HOT-DIPPED OR TUMBLER) BOX NAILS. SINKER NAILS, COOLER NAILS, ETC SHALL NOT BE USED.
 2. NAILS SHALL HAVE FULL HEADS. CLIPPED NAILS ARE NOT ALLOWED.
 3. PANELS SHALL NOT BE LESS THAN 4'-0"x8'-0" EXCEPT AT BOUNDARIES AND CHANGES IN FRAMING, WHERE MINIMUM PANEL DIMENSIONS SHALL BE 24" UNLESS SUPPORTED BY AND FASTENED TO FRAMING MEMBERS.
 4. ALL NAILS SHALL BE DRIVEN SUCH THAT THE HEAD IS FLUSH WITH FACE OF SHEATHING. **DO NOT OVERDRIVE NAILS.**
 5. NAILS SHALL BE LOCATED AT LEAST 3/8" FROM EDGE OF PANELS.
 6. THE WIDTH OF THE NAILED FACE OF FRAMING MEMBERS AND BLOCKING SHALL BE 2" NOMINAL OR GREATER AT ADJOINING PANEL EDGES EXCEPT THAT A 3" NOMINAL OR GREATER WIDTH AT ADJOINING PANEL EDGES AND STAGGERED NAILING AT ALL PANEL EDGES WHERE EDGE NAIL SPACING OF 2-1/2" OC OR LESS IS SPECIFIED, OR 10d COMMON NAILS HAVING PENETRATION INTO FRAMING MEMBERS AND BLOCKING OF MORE THAN 1-1/2" IS SPECIFIED AT 3" OC OR LESS EDGE NAILING.

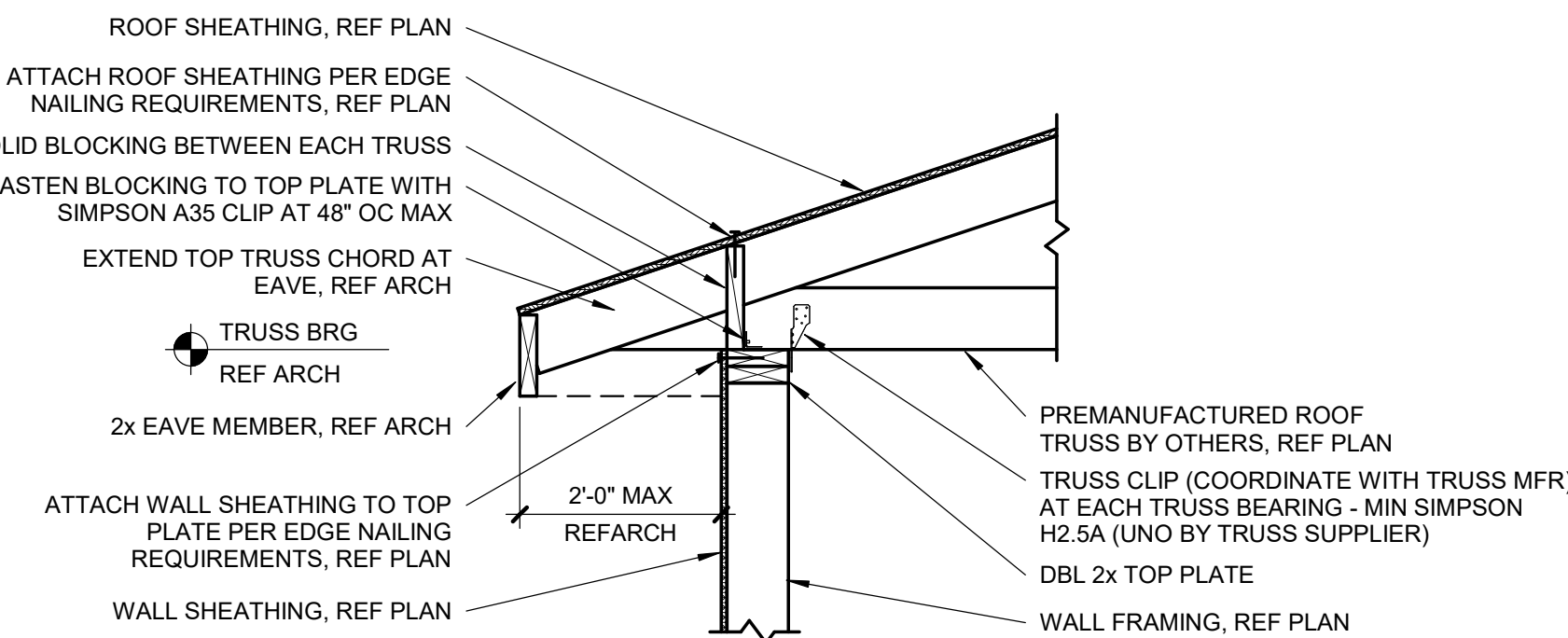
1 | TYPICAL WOOD TRUSS WOOD DIAPHRAGM

S5.11 3/8" = 1'-0"



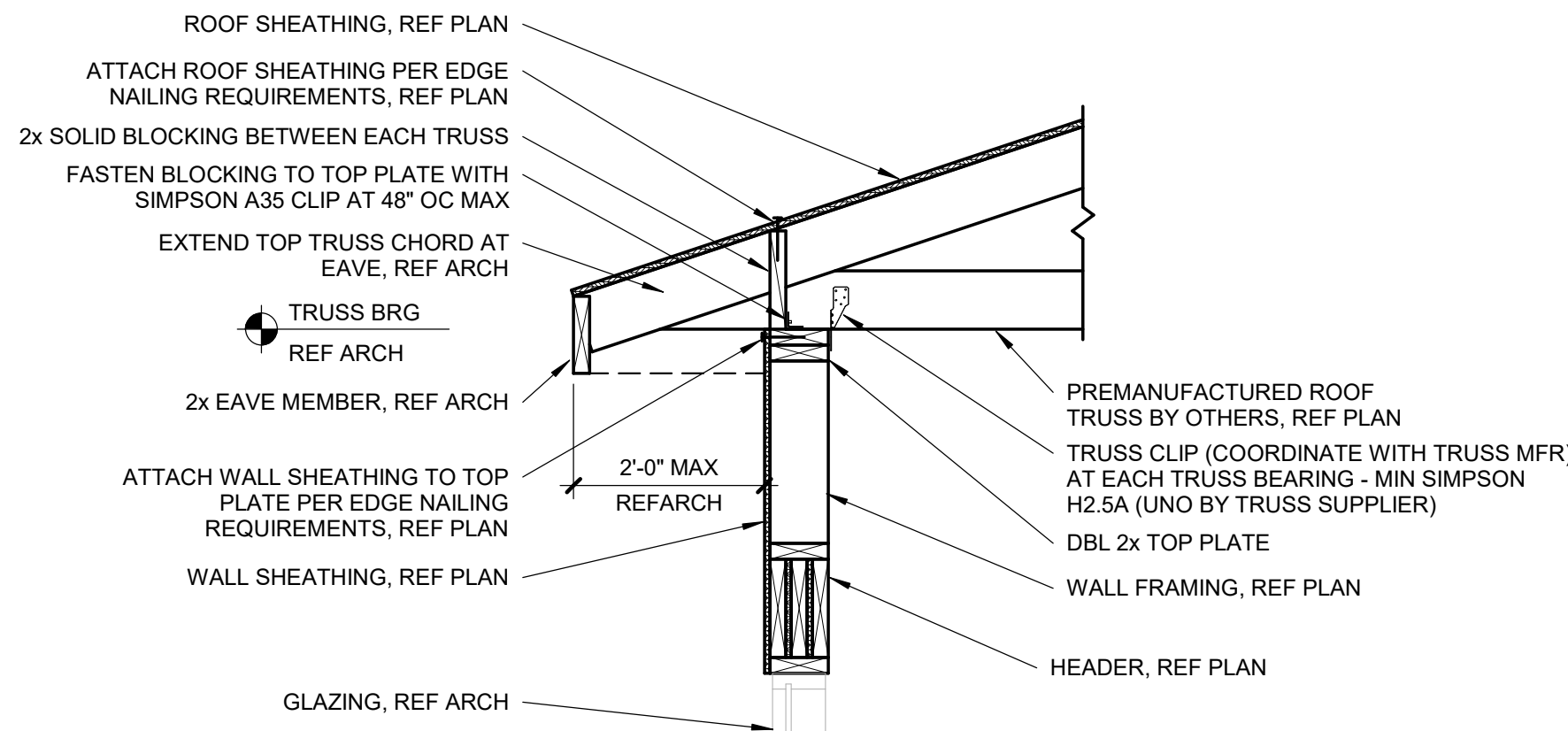
3 DRAG TRUSS DETAIL

S5.20 3/4" = 1'-0"



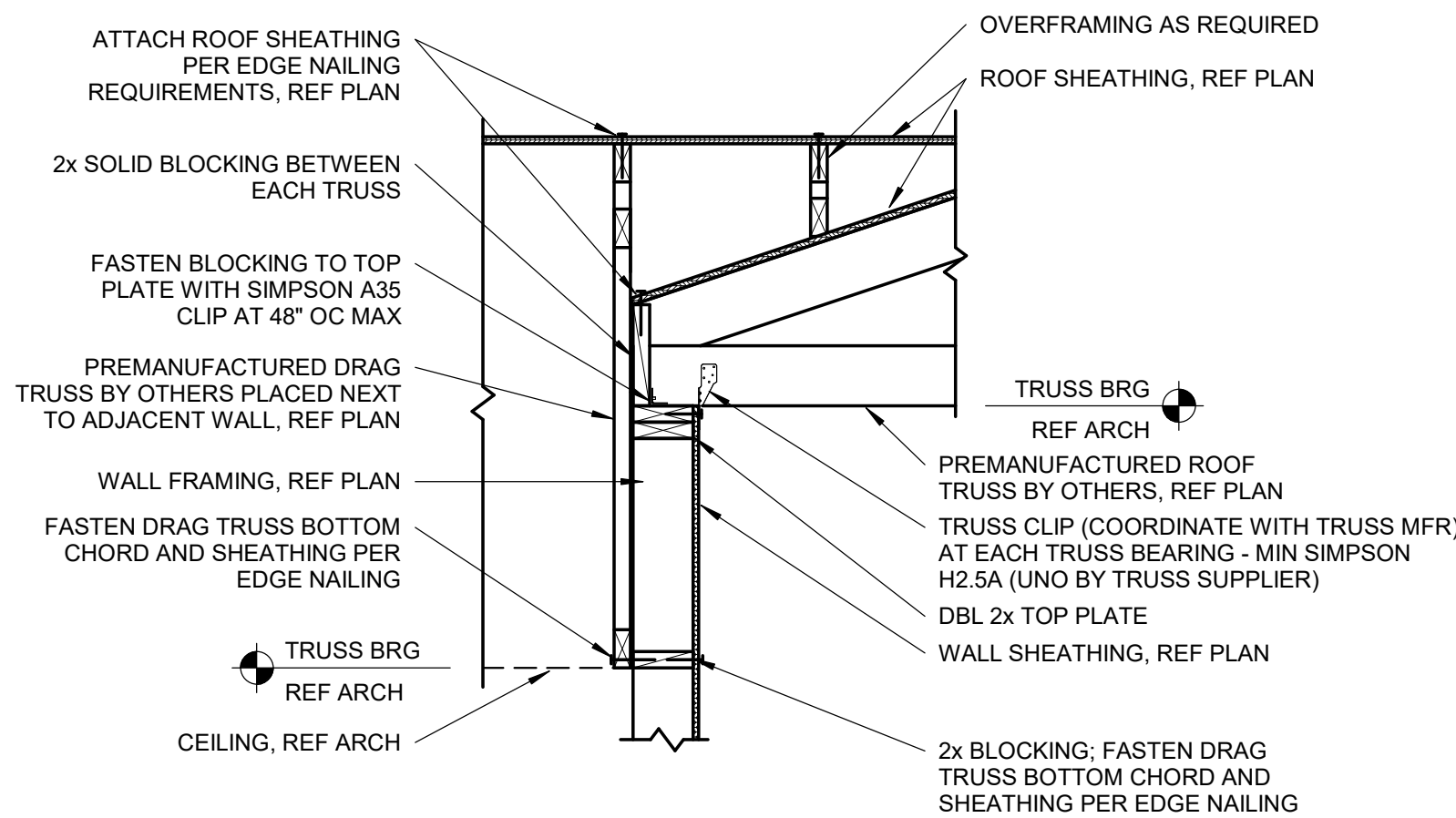
2 SLOPED ROOF TRUSS BEARING

S5.20 3/4" = 1'-0"



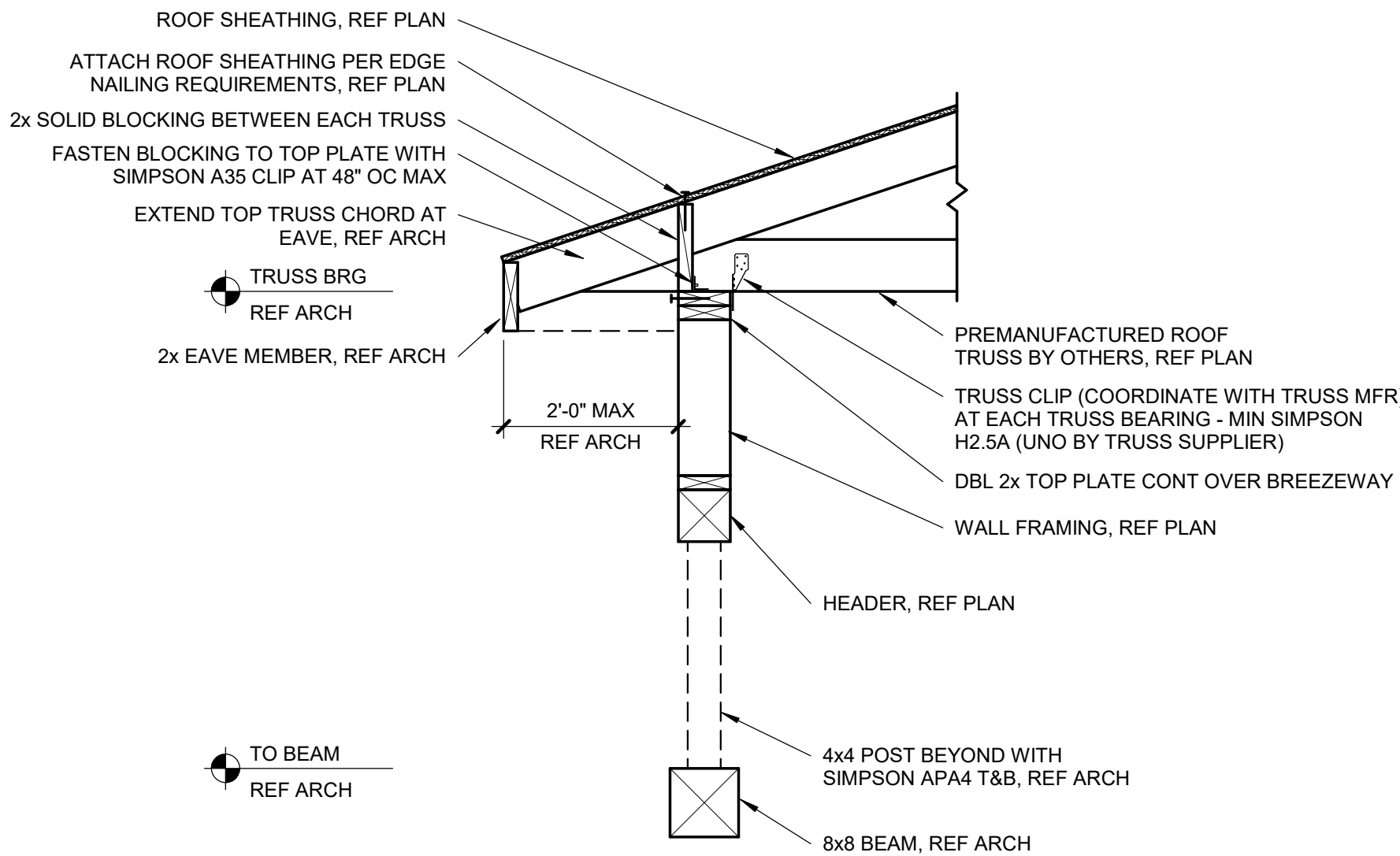
SLOPED ROOF TRUSS BEARING AT 1 HEADER

S5.20 3/4" = 1'-0"



5 TRUSS CHANGE DIRECTION

S5.20 3/4" = 1'-0"



4 TRUSS BEARING AT BREEZEWAY BEAM

S5.20 3/4" = 1'-0"



LEGEND:	
①	THRU PHOTOCELL/TIMECLOCK.
②	6" POOL BACKWASH TO SITE DRAIN. SEE CIVIL, CONFORM TO CITY STANDARDS.



sheet no.
ME-1

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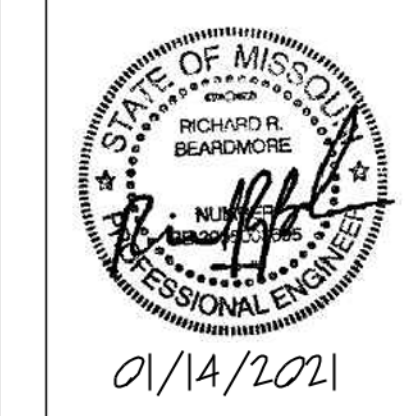
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SUMMIT VIEW FARMS
POOL HOUSE

LEE'S SUMMIT, MISSOURI

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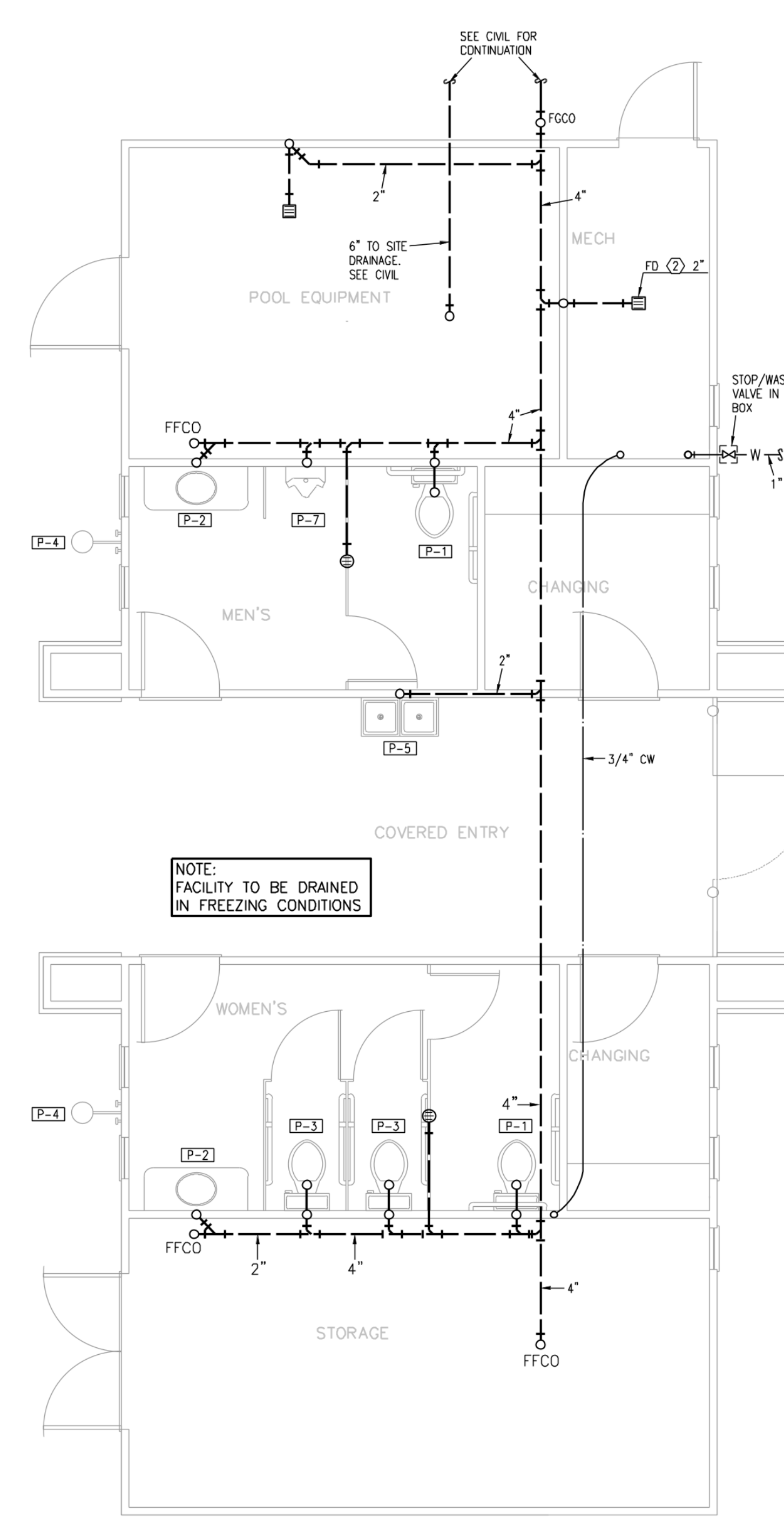
project no.	20091
date	01/14/2021
revised	
design by	RRB
drawn by	CAD
struct. by	APEX

**First Floor Plan
- Mech/Elec**

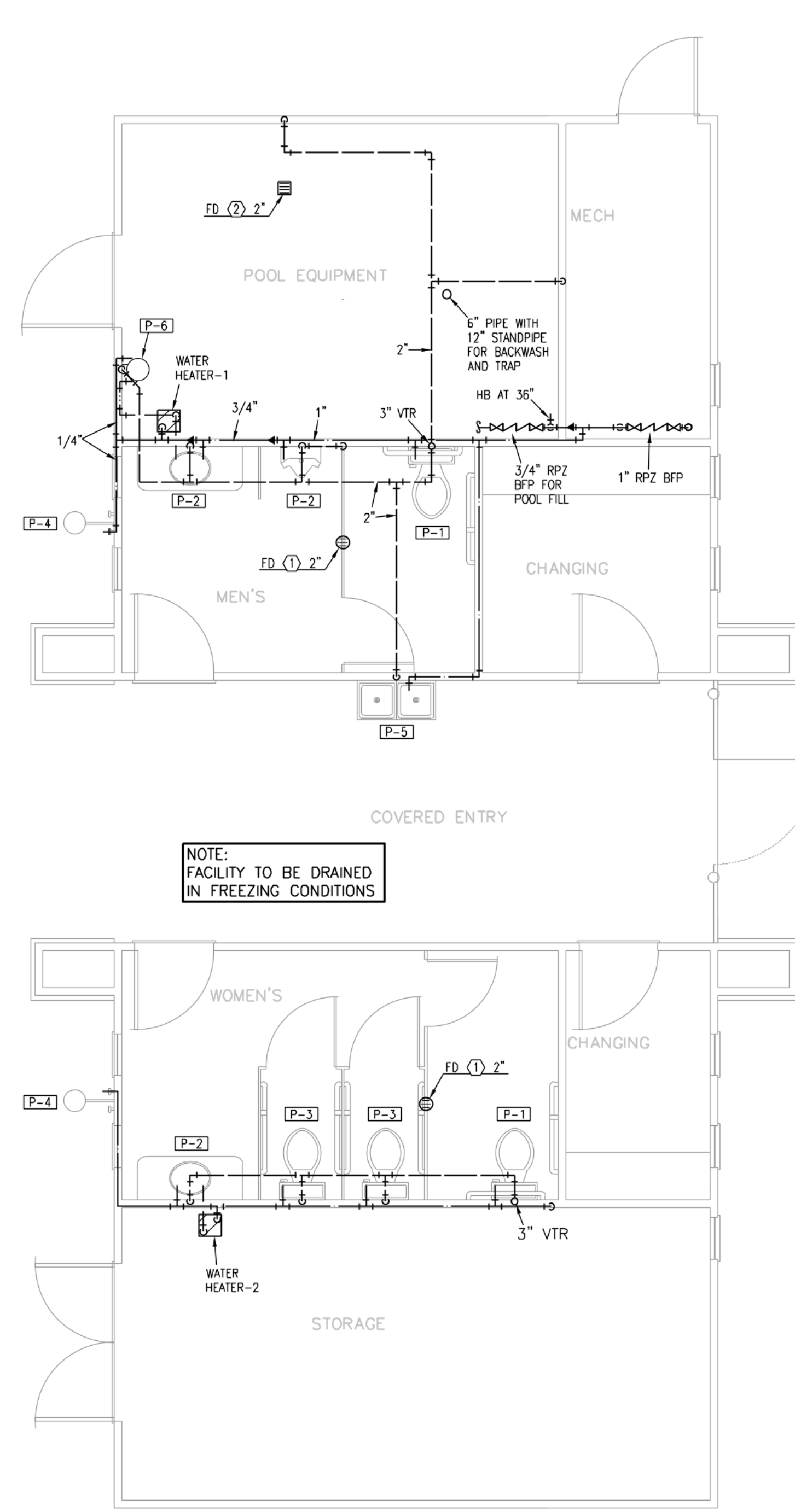
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ME-2

NOTES: PLUMBING

1. COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2. ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS NOTED OTHERWISE. ALL 2" AND 3" WASTE SLOPE AT 1/4" PER FT. PIPING 4" AND GREATER MAY BE AT 1/8" PER FT UNLESS NOTED OTHERWISE.
3. ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
4. ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
5. CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
6. ALL PLUMBING VENTS SHALL BE 10 FEET FROM OPENINGS OR INTAKES.
7. ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
8. SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS.
9. REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT. ALL FLOOR DRAINS ARE 2" TYPE 1 UNLESS NOTED OTHERWISE.
10. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
11. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.



1 FIRST FLOOR PLAN
1/4" = 1'-0" BELOW- GRADE PLUMBING

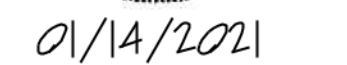


2 FIRST FLOOR PLAN
1/4" = 1'-0" PLUMBING



NORTH





NOTES: ELECTRICAL	
1.	COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
2.	PROVIDE NEC CLEARANCES FOR ALL PANELS AND ELECTRICAL EQUIPMENT.
3.	LABEL ALL JUNCTION BOXES AS TO THE PANEL AND CIRCUIT NUMBER SERVED.
4.	PANEL DIRECTORIES SHALL BE SPECIFIC TO THE ROOMS/EQUIPMENT SERVED.
5.	SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND DETAILS.





PLUMBING FIXTURE SCHEDULE													
Mark	Item	Model	Description	Individual Connections				Accessories					
				W	V	CW	HW	Supplies	Stops	Carrier	P-Trap	Drain	Other
P-1	Accessible Water Closet, Tank Type	Proto #1203WH with PFTS2000wh	Floor-mounted ADA height white vitreous china elongated bowl 1.6 gpl gravity type with Fluidmaster 400A flush mechanism and bolt covers. Provide solid plastic open front elongated white heavy duty seat with integral bumpers, external check hinges with stainless steel posts.	3" or 4"	2"	1/2"		2	1				3
P-2	Accessible Lavatory, Countertop	Proto #PF20174BS with Peerless #PFL11011MBN	20" x 17" oval vitreous china countertop lavatory with overflow. Faucet is 4" o.c. single lever ADA handle, copper waterways, chrome finish. Floor-mounted standard height white vitreous china elongated bowl 1.6 gpl gravity type with Fluidmaster 400A flush mechanism and bolt covers. Provide solid plastic open front elongated white heavy duty seat with integral bumpers, external check hinges with stainless steel posts.	2"	1 1/2" or 2"	1/2"	1/2"	2, 4	1		1	1	1
P-3	Water Closet, Tank Type	Proto #1201WH with PFTS2000wh	Floor-mounted ADA height white vitreous china elongated bowl 1.6 gpl gravity type with Fluidmaster 400A flush mechanism and bolt covers. Provide solid plastic open front elongated white heavy duty seat with integral bumpers, external check hinges with stainless steel posts.	3" or 4"	2"	1/2"		2	1				3
P-4	Outdoor Shower	Symmons SYM-3-325	Self-closing single temperature metering valve with fixed head			1/2"							
P-5	Accessible Dual Height Water Cooler with Bottle Filler	Halsey Taylor #HAC2BLFSQ	ADA compliant dual bowl cooler providing 8 gph of 50 deg water at 90 deg ambient. Provide front and side push bars, lead free, mounted with 27" knee clearance and spout no more than 36" AFF. Provide bottle filler in backsplash.	2"	1 1/2" or 2"	1/2"	1/2"	2	1		1		1
P-6	Eye Wash	Guardian G1814BC	Wall-mounted stainless steel bowl with cover, paddle valve, thermostatic mixing valve.	2"	2"	1/2"	1/2"						
P-7	Urinal	American Standard #6561-017	White vitreous china wall hung with 3/4" top spud, 1.0 gallon siphon jet flushing action. Mount rim per Architectural elevation.	2"	2"	3/4"		3		1			
Supplies				1 - Flexible braided stainless steel 2 - Flexible braided compression hose. 3 - Sloan Royal 186 1.0 gpf diaphragm type. 4 - Provide tempering valve below sink set at 110 deg									
Stops				1 - Angle handle compression									
Carrier				1 - Steel tube floor-mounted in-wall carrier with arms 2 - Cast iron floor mount adjustable carrier for water closet									
P-Trap				1 - PVC with deep escutcheon 2 - PVC 3 - deep seal PVC trap and 30" standpipe.									
Drain				1 - Metal pop-up with tailpiece 2 - Basket strainers in finish to match faucet, tailpiece. 3 - Chrome drain cover.									
Other				1 - Provide trap and supply guard if exposed. 2 - Hose and bracket, mop hanger and hose rack. 3 - Open front seat in public restrooms 4 - Provide Watts Tempering valve, max 110 Deg. F.									

HVAC SYSTEM SCHEDULE																					
MARK	MFGR	NOM TON	MODEL	CFM	AHU										MFGR	OUTDOOR UNIT					NOTES
					OA CFM	E.S.P.	HP	SMBH	TMBH	HEAT CAP	ELEC	FLA	OCP	MODEL		ELEC	FLA	OCP	SEER		
AHU/CU	GOODMAN	2	ARUF25B14	750	130	0.4	0.33	16.9	23.0	6 KW	240/1	27	40	GOODMAN	GSX14-0241	240/1	8.4	15	14.0		

COOLING EAT = 80/67/95

WATER HEATER SCHEDULE												
MARK	MFGR	MODEL	FUEL	VOLTAGE/PH/AMPS	INPUT	EFFICIENCY /PF	GALLONS STORAGE	GPH RECOVERY @ 80° RISE	FLUE TYPE	EXPANSION	CIRCULATOR GPM/HD	NOTES
WH - L1, L2	EEMAX	EMT-1	ELEC	120/1/12	1.4 KW	0.95	1.5	5	N/A			

DRAIN SCHEDULE							
MARK	APPLICATION	MFGR	MODEL	BODY MATL	DEPTH	GRATE MATL	GRATE SHAPE
FD-1	FLOOR	ZURN	ZN-415S	COATED CAST IRON	3"	NICKEL BRONZE	6" ROUND
FD-2	FLOOR	ZURN	Z-611-S	COATED CAST IRON	6"	COATED CAST IRON	9" SQUARE

ACCESSORIES:
1 - DEEP TRAP, ADJUSTABLE GRATE
2 - USE WIDE FLANGE MODEL WHERE IN WOOD CONSTRUCTION
3 - INTERNAL STRAINER

AIR TERMINAL DEVICE SCHEDULE						
MARK	MANUFACTURER	MODEL	FINISH	DAMPER	FRAME TYPE	NOTES
A	AIR MATE	A140, A190	WHITE	YES	GYP BD	
B	AIR MATE	170	WHITE	NO	GYP BD	
C	AIR MATE	240 VO	WHITE	YES	GYP BD	

FAN SCHEDULE											
MARK	MFGR	MODEL	CFM	ESP	FAN HP	ELECTRICAL			CONFIGURATIO	N - NOTES	
						VOLT S/ R	FL A	OCP			
EF - 1, 2, 3	GREENHECK	SP-A390	210-280	0.25	Fr.	120/1	3	15	(3) #12	ceiling, 1, 2	
NOTES: 1-CEILING GRILLE, DS 2-BD DAMPER, DS, SPEED CONTROLLER, WALL/ROOF CAP											

Luminaire Schedule - Units and Buildings							
MARK	DESCRIPTION	MFGR	MODEL	MOUNTING	FINISH	LAMPS	NOTES
A	Strip Light	Lithonia	CSS L48 4000LM	surface	white	4300 Lumen 4000K	Wet Location
B	Strip Light	Lithonia	CSS L48 4000LM	surface	white	4300 Lumen 4000K	w/built-in motion sensor
C	Disk Light	Progress	P8222-28-30K	jb/surface	white	1200 Lumen 3000K 15W LED	Wet Location
D	Exterior Sconce	Progress	P5674-31-30K	wall	black	1600 lumen 15W 3000K LED	
E	Trellis	Progress	P5641-20/30K	ceiling	bronze	1355 Lumen 29W 3000K LED	
F	Exterior Wall Light	Lithonia	WSR LED P2 SR2 30K MVOLT	wall	bronze	3100 Lumen 4000K LED	
SL1	Exterior Pole	McGraw Edison	GLEON-AF-02-LED-E1-T4FT	pole	bronze	113W 12252 Lumen 4000K led	provide with 16 ft pole
SL2	Exterior Pole	McGraw Edison	GLEON-AF-01-LED-E1-SL4	pole	bronze	(2) 59W 5922 Lumen 4000K led	provide with 16 ft pole
SL3	Exterior Pole	McGraw Edison	GLEON-AF-01-LED-E1-T3	pole	bronze	59W 6235 Lumen 4000K led	provide with 16 ft pole
SL4	Exterior Pole	McGraw Edison	GLEON-AF-01-LED-E1-T3	pole	bronze	59W 6235 Lumen 4000K led	w/ WP-GFI receptacle

ELECTRICAL PANEL SCHEDULE																						
PANEL: P			LOCATION:				MOUNTING: SURFACE															
BUS: 200 A			MANS:		MLO		VOLTAGE:		120/240		PHASE/WIRE:		1 Ph 3 Wire		KAIC: 42							
			WATTS				POLE				WATTS											
DESCRIPTION			A		B		BRKR		WIRE		WIRE		BRKR		A		B		DESCRIPTION			
POOL PUMP			2200				30		10		1		2		12		20		1500		WH - L1	
5 HP - VERIFY					2200		2P		10		3		4		12		20		800		RECEPTACLES	
POOL PUMP			1300				20		12		5		6		12		20		1000		LTS/RECEPTS	
3 HP - VERIFY					1300		2P		12		7		8		12		20		600		LTS/RECEPTS	
AHU			3200				40		8		9		10		12		20		200		POOL HEATER	
					3200		2P		8		11		12		12		20		1500		WH - L2	
QU			1000				20		12		13		14		12		20		600		RECEPTACLES	
					1000		2P		12		15		16		12		20		200		LIGHTING	
COOKING STATION			600				20		12		17		18		10		20		1000		LIGHTING	
LIGHTING					700		20		10		19		20								SPACE	
SPARE							20				21		22								SPACE	
SPARE							2P				23		24								SPACE	
SPARE							20				25		26								SPACE	
SPARE							20				27		28								SPACE	
SPARE							20				29		30								SPACE	
CONNECTED LOAD-WATTS			12000		11500						FEEDER LOAD-WATTS											
CONNECTED LOAD-AMPS			105		96						FEEDER LOAD-AMPS											
CONTINUOUS LOAD											FEEDER WIRE											
RECEPTACLES											FEEDER OCP				200 A							
NON-CONTINUOUS LOAD																						
OTHER DIVERSIFIED LOAD							@				0											

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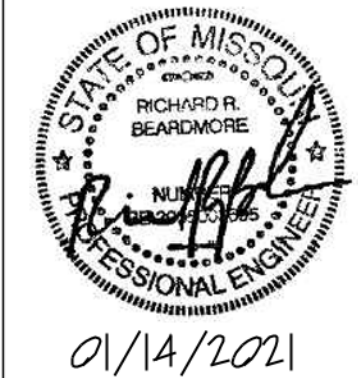
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SUMMIT VIEW FARMS
POOL HOUSE
LEE'S SUMMIT, MISSOURI

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MO# A-201601206

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project no. 20091
date 01/14/2021
revised
design by RRB
drawn by CAD
struct. by APEX

MECH./ELEC.
SCHEDULES

sheet no.
ME-6