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C	ODE CLASSIFIC	ATION AN	ND ANALY	'SIS		
BUILDING AUTHORITY: CITY OF LEE'S SUMMIT, MISSOURI				FIRE SAFETY: SPRINKLER	NOT REQUIRED	
APPLICABLE CODES: 2018 INTERNATIONAL BUILDING CODE 2018 INTERNATIONAL FIRE CODE 2018 INTERNATIONAL PLUMBING CODE	- 2018 IE - 2018 IF - 2018 IF	:C		PER IBC 903.2.1.4 - AUTOMATIC S AREA IS UNDER 12,000 SQ. FT., ((NO BUILDINGS, ONLY BATHHOUSE LEVEL OF DISCHARGE.	OCCUPANT LOAD IS	LESS THAN 300
2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL FUEL GAS CODE 2018 INTERNATIONAL ENERGY CONSERVATIO 2017 NATIONAL ELECTRIC CODE	- 2018 IN - 2018 IF N CODE - 2018 IE - 2017 NE	-6C -CC		FIRE RATINGS EXTERIOR WALLS	NOT RATED (IB SEPARATION >3	
AMERICANS WITH DISABILITIES ACT ACCESSI				LOAD BEARING WALL	NOT RATED (IB	C TABLE 601,
PROJECT DESCRIPTION:				ROOF / CEILINGS	NOT RATED (IB	C TABLE 601,
THIS PROJECT IS ONE NEW POOL OUT BUILDIN FARMS. THE BUILDING WILL BE ONE STOREY A	ABOVE GRADE WITH			STRUCTURE	NOT RATED (IB	C TABLE 601,
A RESTROOM FOR EITHER MEN OR WOMEN, ST MECHANICAL AREAS.	ORAGE, AND			EGRESS		
				THE BUILDING HAS 7 ACCESSIBLE OTHER AREAS FOR EGRESS PUR		OT UTILIZE
BUILDING CLASSIFICATION: OCCUPANCY GROUP	A-4: SWIMMING POOL		(ADDRESS NUMBERS		
			}	PROVIDE BUILDING NUMBERS PER	2018 IFC 505.1	₹
NON-SEPARATED USE	(PER IBC 508.3)		\	FIRE EXTINGUISHERS PROVIDE (I) 2AIOBC FIRE EXTING	BUISHER PER 2018	IFC 906.5
CONSTRUCTION TYPE	☑-B (TABLE 601)		*			
ALLOWABLE AREA	6,000 SQ. FT. (TYPE A-4)	(TABLE 506.2)	/	PLUMBING FIXTURES:	REQUIRED	PROVIDED
ACTUAL AREA (OUTDOOR GATED POOL)	6,923 SQ. FT.			(BATHHOUSE, POOL & POOL DECK)	NEGOTNED	1 ROVIDED
ACTUAL AREA (BATHROOM/STORAGE BLDGS.)	848 SQ. FT.			WATER CLOSET - MEN (1/125)	2	2
ALLOWABLE STORIES	I (TABLE 504.4)	01,	/19/2022—	WATER CLOSET - WOMEN (1/65) LAVATORIES - MEN (1/200)	3 I	3
				LAVATORIES - WOMEN (1/200)	i	i
OCCUPANCY LOAD:				DRINKING FOUNTAIN (1/1000) MOP SINK	~	2 (HIGH & LOW FOR ADA)
BATHS TRELLI	S AREA & POOL DECK (BY C	THEOG)				
303 SQ. FT. / 100 = 3 4,614 S	Q. FT. $/ 15 = 307$) IIILICO)		ENERGY CODE:		
	BY OTHERS) 2. Ft. / 50 = 55			CLIMATE ZONE INSULATION SHALL BE INSTALLED F	LEES SUMMIT, N	
POOL EQUIP. / MECHANICAL POOL I	DECK, POOL \$			2017 IECC. AS AMENDED BY THE CI	TY OF LEE'S SUMM	IT, MISSOURI
STORAGE	5 OCCUPANCY = 362			INSULATION REQUIREMENTS CEILINGS AND CATHEDRAL CEILI	NGS R-38	
263 SQ. FT. / 300 = 1				WOOD FRAMED WALLS UNHEATED SLABS	R-13 R-10 FOR 2:	4" REL OIA
BATHHOUSE OCCUPANCY = 7				OPAQUE SWINGING DOORS	U-0.61	+ BLLON
				FENESTRATION		
TOTAL OCCUPANCY = 369				FIXED MINDOW	U-0.38	
131712 3330171131 = 301				OPERABLE WINDOW	U-0.45	
				ENTRANCE DOOR	U-0.77	
				DOOR - SHGC	0.40	

DEVELOPER: BILL KENNEY P.O. BOX 291 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 3639 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) 972-7244

DRAWINGS SHEET INDEX SHEET NO. SHEET TITLE BUILDING CODE DATA, CLASSIFICATIONS & LIST OF DRAWINGS A-I ELEVATIONS A-2 FIRST FLOOR PLAN A-3 INTERIOR ELEVATIONS GENERAL NOTES AND SPECIFICATIONS S-1.00 S-1.10 SPECIAL INSPECTIONS S-1.20 SCHEDULES S-1.30 LOADING DIAGRAMS S-2.00 S-3.00 TYPICAL WOOD SHEAR WALL DETAILS S-5.00 TYPICAL FOUNDATION DETAILS S-5.10 TYPICAL WOOD DETAILS TYPICAL WOOD DETAILS S-5.11 S-5.20 TYPICAL WOOD DETAILS ME-O MECH./ELEC. SPECIFICATIONS ME-I SITE PLAN - MECH/ELEC.
ME-Ia SITE PLAN - DETAILS
ME-2 FIRST FLOOR PLAN - MECH/ELEC. 01/19/2022-ME-3 FIRST FLOOR PLAN - MECH./ELEC. ME-4 MECH./ ELEC. DETAILS ME-5 MECH./ ELEC. DETAILS ME-6
MECH/ELEC SCHEDULES
E-I SITE PHOTOMETRIC PLAN
E-2 SITE DETAILS AND SCHEDULES
ATTACHMENT STRUCTURAL CALCULATIONS

RELEASED FOR CONSTRUCTION As Noted on Plans Review

elswood smith carlson

architects, p.a. 7133 west 95th street suite 200

overland park, ks 66212 ph: 913-649-7557 www.escarchitects.com

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contingency cannot be anticipated. Any ambiguity or
discrepancy discovered by the use of these plans shall be
reported immediately to the designer. A failure to cooperate
by a simple notice to the designer shall relieve the designer
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from the plans without the consent of the designer are
unauthorized, and shall relieve the designer of responsibilit
for all consequences arriving out of such changes.
Contractor shall check and verify all dimensions.

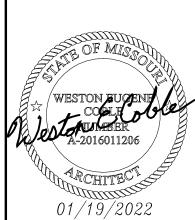
RMS

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SUMMIT, SUMMIT POOL HOUSE LEE'S

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Weston E. Coble Architect KS# 6705

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01/19/2022 revised design by W.C. drawn by A.H. struct. by APEX

cover



Weston E. Coble Architect KS# 6705

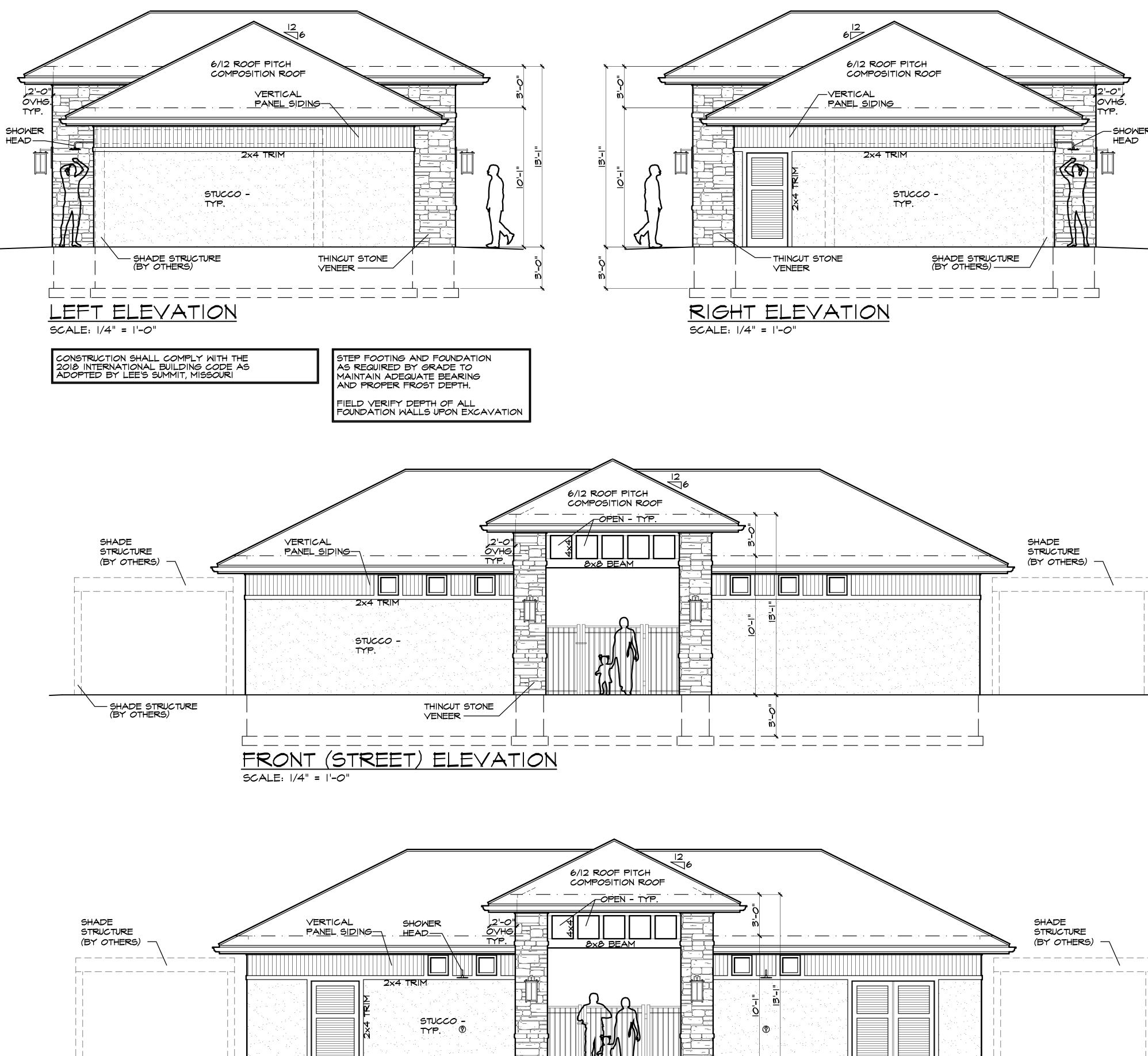
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elevations

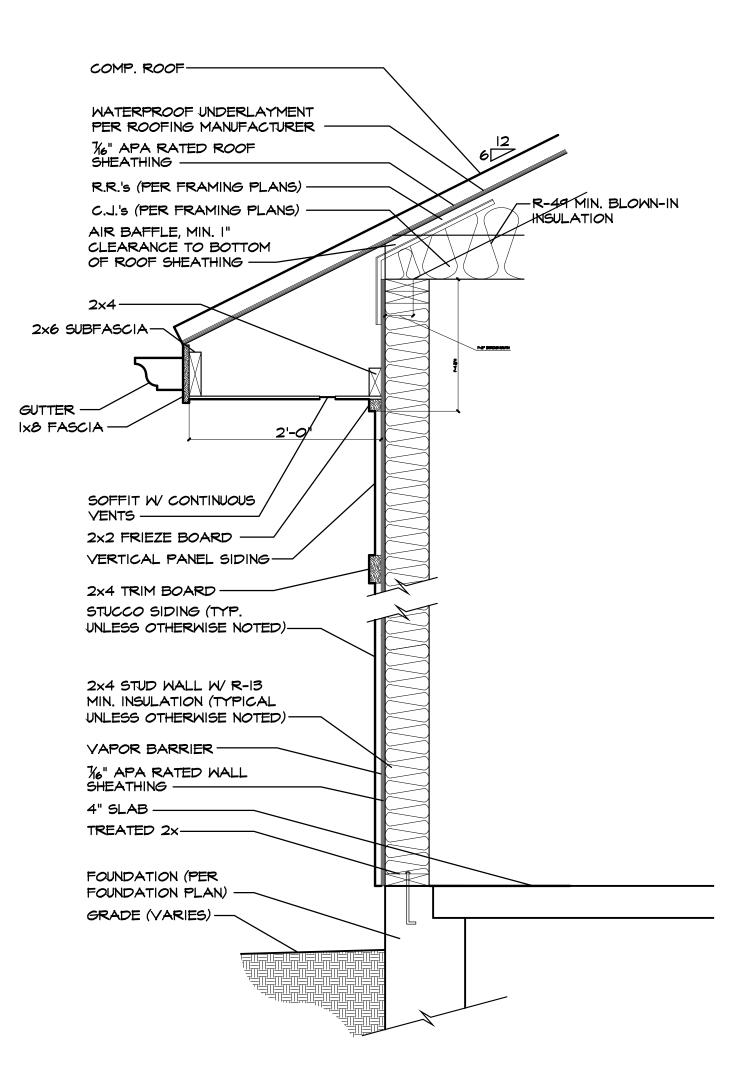
sheet no. **A-1**



THINCUT STONE VENEER ———

REAR (POOL) ELEVATION

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



ARCHITECTURAL

TYPICAL WALL/SOFFIT DETAIL

SCALE: |" = |-0"

- SHADE STRUCTURE (BY OTHERS)

CONSTRUCTION As Noted on Plans Review

RELEASED FOR

elswood smith carlson

architects, p.a. 7133 west 95th street suite 200 overland park, ks 66212

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from the plans without the consent of the designer are
unauthorized, and shall relieve the designer or responsib
for all consequences arriving out of such changes.
Contractor shall check and verify all dimensions.

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Weston E. Coble Architect KS# 6705 MO# A-2016011206

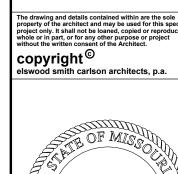
design by W.C.

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01/28/2021 01/19/2022 revised

drawn by A.H. struct. by APEX

first floor plan





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revised

struct. by APEX interior



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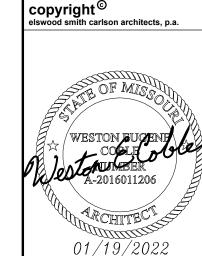
-MIRROR

-SOAP DISPENSER

-PROTECTIVE
SLEEVE REQUIRED
IF ENCLOSURE
PER ACCESIBLE
SINK DETAIL
IS NOT USED.

RMS 4 Ь

POOL **LEE'S**

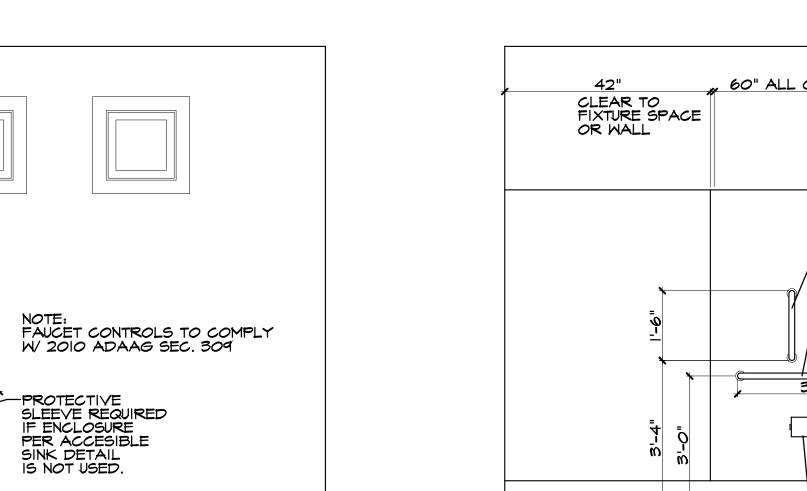


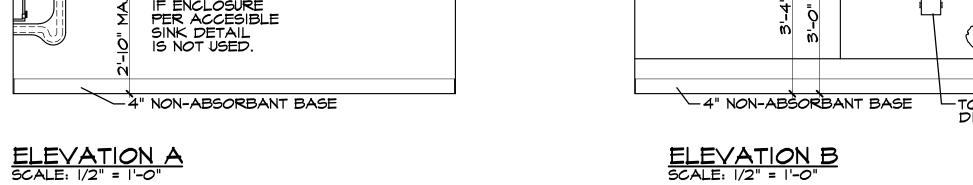


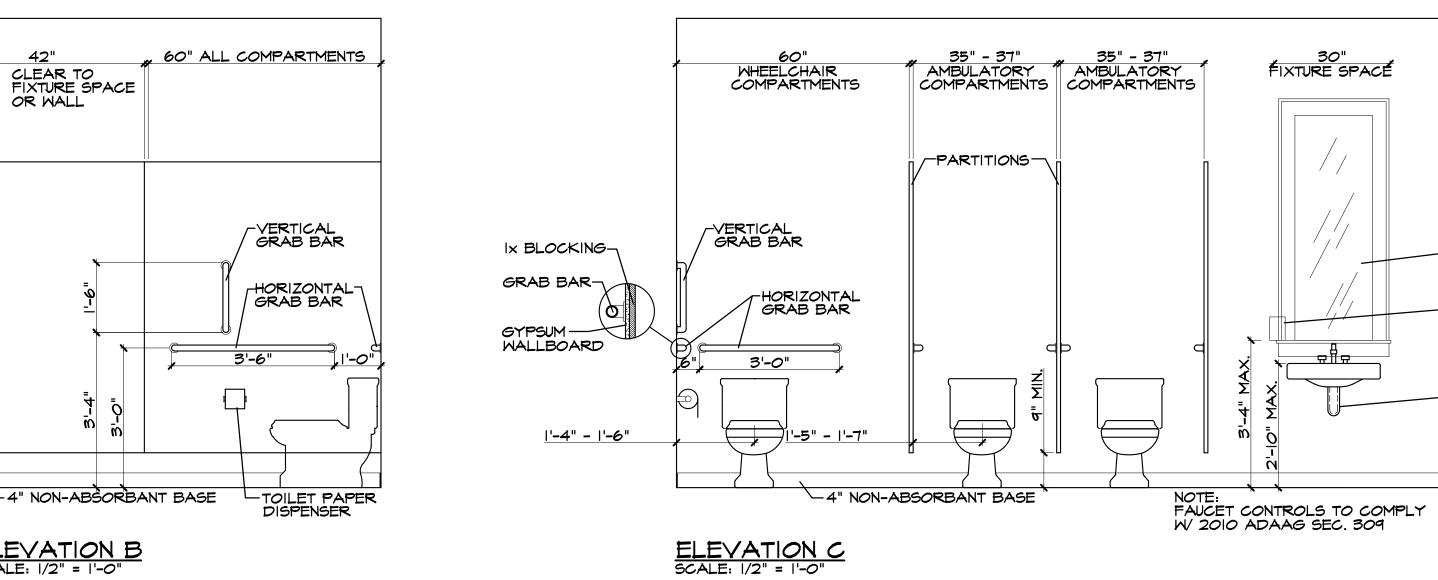
project no. 20091 01/28/2021 01/19/2022 design by W.C. drawn by A.H.

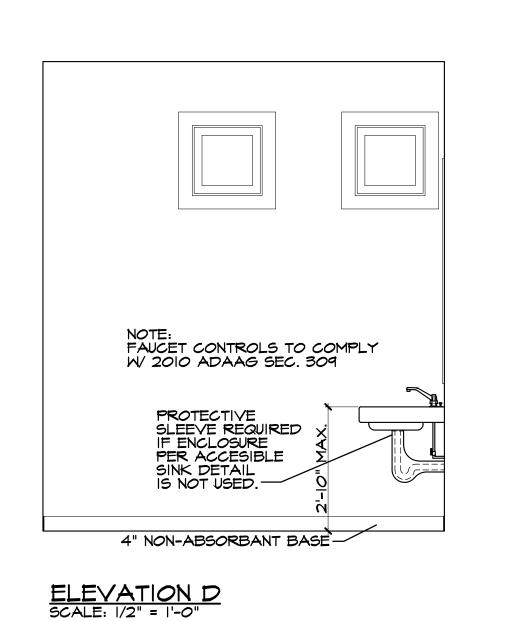
bathroom elevations

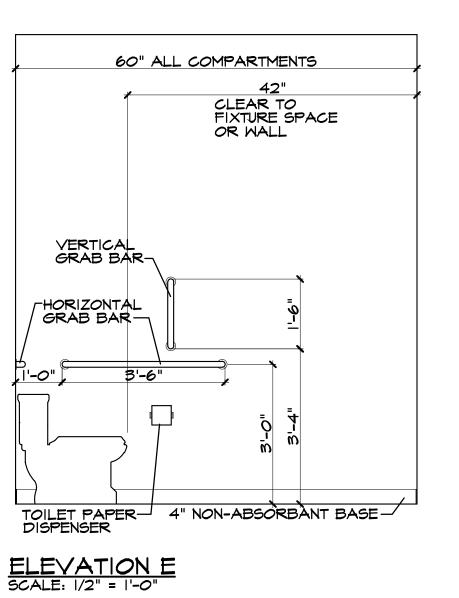
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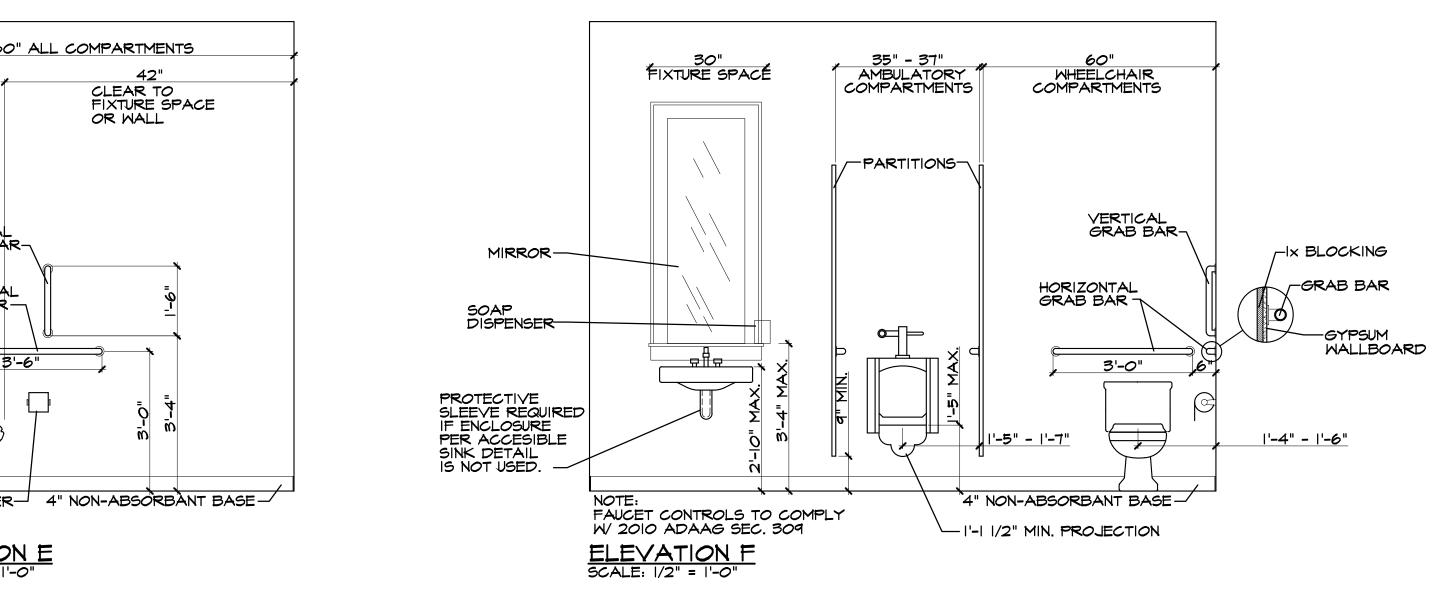












NOTE: FAUCET CONTROLS TO COMPLY W/ 2010 ADAAG SEC. 309

NOTE: 2'-6" MIN. WIDTH OF TOE \$
KNEE CLEARANCE

MAX., II" MIN. I'-5" MIN.

2'-I" MAX.

ACCESSIBLE SINK DETAIL
PER 2010 ADAAG SECS. 212 \$ 606

2. CONTRACTOR SHALL USE IBC SPECIFICATIONS AND DETAILS FOR PLACEMENT OF PERIMETER DRAINS, UNDER-SLAB DRAINS, AND ANY OTHER 3. ALL FOUNDATIONS TO BEAR ON ORIGINAL, UNDISTURBED SOIL. REMOVE

ANY MUD, ORGANIC SILT, ORGANIC CLAYS, PEAT OR UNPREPARED FILL PRIOR TO PLACING FOUNDATIONS. 4. ALL FOOTING EXCAVATIONS TO BE APPROVED BY A QUALIFIED

GEOTECHICAL 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, REGLETS, 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

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

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

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.

REINFORCING REQUIREMENTS AT WALL AND SLAB 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

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

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 PLY'S.

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

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

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

MATERIAL SPECIFICATIONS STEEL MATERIAL SPECIFICATIONS

WIDE FLANGE SHAPES (W)

ASTM A992

	7.10.1						
CHANNELS (C), ANGL	ASTM A36						
PLATES			ASTM A36				
HOLLOW STRUCTURAL	,	HSS)), GRADI		
HIGH STRENGTH BOL	.TS				GRADE		
ANCHOR BOLTS (HEX	(-HEAD U	NO)	AST	M F1554	(55 ksi)	"S1"	
EPOXY ANCHOR ROD	S			AST	Л A36		
STEEL DECK, PLAIN S	TEEL		AS	STM A10	08, (33 k	si)	
STEEL DECK, GALVAN	NIZED		A	STM A6	53, (33 ks	si)	
NON-SHRINK GROUT,	, COL. BAS	SES	5000 ps	si (28 D <i>l</i>	Y STRE	NGTH)	
CONCRET	E & REINI	FORCING	STEEL SE	PECIFIC	ATIONS		
MATERIAL			,	SPECIFI	CATION		
REINFORCING BARS			AST	M A615	, GRADE	60	
WELDED WIRE FABRI	С		ASTM A1064				
PORTLAND CEMENT			ASTM C 150				
FLY ASH			ASTM C 618, 15% MAX				
CONCRETE AGGREGA			ASTM C 33, 3/4" MAX AGG. SIZE.				
EPOXY - THREADED F	ROD ANCI	HORS	HILTI HIT-HY 200 A OR SIMPSON SET 3G				
EPOXY - REINFORCIN	G BARS		HILTI HIT-HY 200 R OR SIMPSON SET 3G				
REBAR CONDITION			MINIMUM CONCRETE COVER				
FORMED SURFACES GROUND OR WEATH	_) TO	2"				
UNFORMED SURFACE WITH THE GROUND	E IN CONT	ГАСТ	3"				
WALLS AND SLABS NOT EXPOSED TO GROUND OR WEATHER			1"				
INTERIOR BEAMS AND COLUMNS (TO TIES OF STIRRUPS)			1 1/2"				
CON	ICRETE N	IIX DESIG	GN REQUIR	REMENT	S		
				MAX			
CONCRETE USE	WEIGHT	28 DAY f'c	CEMENT TYPE	RATIO	SLUMP (+/- 1")	% AIR	
FOOTINGO	N 13 A /	0 = 0 0		٥		00/ 1443/	

CONCRETE USE	WEIGHT	f'c	TYPE	RATIO	(+/- 1")	% AIR	
FOOTINGS	NW	3500 ps	si I/II	0.55	5"	6% MAX	
INT. SLAB ON GRADE	NW	4000 ps	si I/II	0.45	5"	3% MAX	
C	ONCRET	E SLAB	SPECIFICA	ATIONS			
FLOOR FLATNESS, FF				SOV: 35	MLV: 2	5	
FLOOR LEVELNESS, F	L			SOV: 24	MLV: 1	7	
WOOD MATERIAL SPECIFICATIONS							
MEMBERS			MAT	ERIAL SF	PECIFICA	NOITA	
JOIST, RAFTERS, HEA	DERS, BE	AMS	No. 2 DF/L				
TREATED LUMBER			No. 2 So. Pine				
STUDS, BEARING WAI	_L		No. 2 SPF				
SILL AND TOP PLATES	3		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			0E6 psi	
LAMINATED STRAND	LUMBER,	LSL	Fb = 1700 psi, E = 1.3 x 10E6 psi				
PARALLEL STRAND LI	JMBER, P	SL	Fb = 17	700 psi, E	= 1.3 x 1	0E6 psi	

RALLEL S	STRAND LUMB	SER, PSL	Fb = 1700 psi, E = 1.3 x 10E6 psi					
LTS AND	THREADED R	ODS	AS	STM A307 (MIN	٧.)			
NAIL SIZE REFERENCE								
(COMMON NAII	_		BOX NAIL				
SIZE	DIAMETER	LENGTH	SIZE	DIAMETER	LENGT			
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 MA	ASONRY MAT	TERIAL SPEC	IFICATIONS				
TEDIAL				DECISIO ATIO	NI .			

ou	0.101	2 1/2	- Ou	0.110	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									
ATERIAL			SPECIFICATION						
RICK MASC	NRY UNITS		ASTM C-62						
ORTAR			ASTM	C-270, TYPE N	N OR S				

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 LAGER 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

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.

ANY PORTION OF THE CONTRACT DOCUMENTS FOR USE IN SUBMITTALS IS

7. CONTRACTOR SHALL SUBMIT STRUCTURAL SHOP DRAWINGS FOR THE

 CONCRETE MIX DESIGN, MATERIALS, AND TEST REPORTS • CONCRETE REINFORCING STEEL, HARDWARE, AND FASTENERS • ROUGH CARPENTRY HARDWARE, AND FASTENERS ENGINEERED WOOD FRAMING

SYMBOLS / ABBREVIATIONS SYMBOL/TAG DESCRIPTION **APPLIES TO DETAIL ON SHEET** DETAILS, SECTIONS & ELEVATIONS ∖sx.x / SHEET NUMBER **FOOTINGS AND** T = XXX' - XX''**ELEVATION (TOP)** B = XXX' - XX''ELEVATION (BOTTOM) FOUNDATION WALLS LEVELS, SPOT T.O.X. **ELEVATION MARK** ELEVATIONS, & PLAN ELEVATIONS TOP OF STEEL T.O.S. = XXX' - XX" PLAN VIEW NOTATIONS **ELEVATION** JOIST BEARING JST BRG = XXX' - XX" PLAN VIEW NOTATIONS REVISION MARK SHEET REVISIONS ABV DEFINITION ABV | DEFINITION SIMILAR CONDITION AB ANCHOR BOL STD STANDARD CONTRACTION JOINT CENTERLINE TOC | TOP OF CONCRET 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 TYP TYPICAL CONDITION HAS | HEADED ANCHOR STUDS OC ON CENTER UNO UNLESS NOTED OTHERWISE PAF | POWDER ACTUATED FASTNR | WP | WORK POINT FRAMING LEGEND: BEARING WALL ABOVE FLOOR SYSTEM. REF PLAN **REF PLAN** REF PLAN ARCH WALLS. HEADER, HALF-TONED FOR REF PLAN CLARITY NOTE: THE FRAMING IN THIS EXAMPLE IS FOR REFERENCE ONLY, ACTUAL FRAMING SITUATION AND CONSTRUCTION TYPE MAY VARY SHEAR WALL LEGEND: SHEAR WALL END **REF PLAN** STUDS, REF PLAN SHEAR WALL, REF CONTINUE STUD PACK FROM SHEAR PLAN, HATCH **DENOTES SHEATHING** WALL ABOVE APPLIED THIS FACE SHEAR WALL PLAN

NOTES - PREFAB WOOD TRUSSES

HOLDOWN ANCHOR

LOCATION, REF PLAN

FOUNDATION,

REF PLAN

CAMBER, AND DEFLECTIONS

FOUNDATION PLAN

 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,

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

DESIGN INF	ORI	MAT	ION		
BUILDING CODE:					
2018 INTERNATIONAL BUILDING CODE BY LOCAL BUILDING CODES	E AS AD	OPTED /	AND/OR	AMEND	ED
SOILS INFORMATION:					
THE FOUNDATION DESIGN PROVIDED	IS BAS	ED OFF	OF A MI	NIMUM	
ALLOWABLE PRESUMPTIVE LOAD-BE					
TABLE 1806.2 IN LIEU OF A SITE BASE					IT IS
RECOMMENDED THAT A QUALIFIED G RETAINED TO VERIFY THESE ASSUME					
USE OF THIS FOUNDATION DESIGN W					IOIV. L
VERIFICATION, APEX WILL NOT BE LIA	ABLE FO	R THIS [DESIGN	PARAMI	
AND THE OWNER SHALL ACCEPT ALL					
THE STRUCTURE AS A RESULT OF EX AND/OR OTHER QUESTIONABLE SOIL					
PRESENT ON-SITE.	S CHAR	ACTERI	31103 11	HAT WA	I DE
FROST DEPTH				3(6"
PRESUMPTIVE LOAD-BEARING PRESS	SURF) psf
WIND DESIGN DATA:				Main B	
OCCUPANCY CATEGORY					I
ULTIMATE WIND SPEED (3 SECOND G	UST), V			110	mph
WIND EXPOSURE CATEGORY					
VELOCITY PRESSURE, qz				22.4	1 psf
INTERNAL PRESSURE COEFFICIENT,	GC _{pi}			+/-().18
WIND DESIGN COMPONENTS & CLAD	DING DA	ATA:		Main B	uildin
EDGE REGION, a				3' -	- 0"
WALL ZONES	10 SF	20 SF	50 SF	100 SF	200 S
4 & 5	26 psf	25 psf	24 psf	22 psf	21 p
4	-29 psf	-27 psf	-26 psf	-25 psf	-24 p
5	-35 psf	-33 psf	-30 psf	-27 psf	-25 p
ROOF ZONES	10 SF	20 SF	50 SF	100 SF	200 S
All Zones	19 psf			· ·	11 p
1	<u> </u>	-	-26 psf		
2e, 2r & 3			-37 psf		-26 p
1 OH				-45 psf	
2e & 2r OH				-51 psf	
3 OH	-28 pst	-62 pst	-52 psf	-45 psf	-38 p
SEISMIC DESIGN SITE DATA:				C =	0.400
SPECTRAL RESPONSE COEFFICIENTS	S				0.100
SITE CLASS (ASSUMED)) D
DESIGN SPECTRAL RESPONSE S _{DS} = 0.10					
ACCELERATIONS S _{D1} = 0.109					
SEISMIC ANALYSIS PROCEDURE	EQI	JIVALEN	IT LATEI	RAL FOF	RCE
SEISMIC DESIGN BUILDING DATA:				Main B	uildin
LATERAL SYSTEM: A. BEARING WALL (WOOD) WALLS SHEATHED WITH WO SHEAR RESISTANCE OR STEEL SHEE	OD STR				
	.10				
RESPONSE MODIFICATION, R				6.	50

DEF. AMPLIFICATION FACTOR, C

OVERSTRENGTH FACTOR, Ω

SEISMIC RESPONSE COEF., O

SEISMIC DESIGN CATEGORY

SEISMIC RISK CATEGORY

ROOF SNOW LOAD DATA:

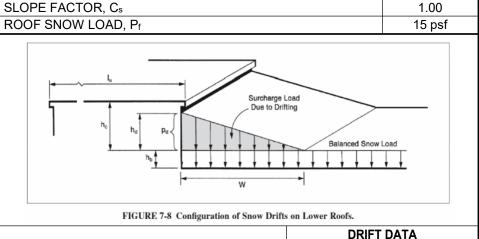
GROUND SNOW LOAD, Pg

THERMAL FACTOR, Ct

SNOW EXPOSURE FACTOR, Ce

SNOW LOAD IMPORTANCE FACTOR, Is

SEISMIC BASE SHEAR, V



0.8 kip

Main Buildin

0.90

1.20

			שמות
Comments		LOAD, Pd	WIDTH, V
SAMPLE COMMENT		30.4 psf	7' - 4"
GRAVITY LOAD DATA:			
		LOADS	
OCCUPANCY OR USE	UNI	IFORM	POINT
ROOF DEAD LOADS	•		
— TYPICAL ROOF	24	1PSF	N/A
ROOF LIVE LOADS	•		
— ROOF: ORDINARY FLAT,	20)PSF	
PITCHED, AND CURVED			
ROOF TRUSS DESIGN REQUIRE	MENTS		
MINIMUM DEFLECTION CRITERI	A, UNO		
TOTAL LOAD			L/240
TRANSIENT LOAD			L/360
TOP CHORD LOADS			
LIVE LOAD / SNOW LOAD			30 psf
DEAD LOAD			10 psf
BOTTOM CHORD LOADS			
DEAD LOAD	·		10 psf

SHEET	LIST - STRUCTURAL
SHEET NUMBER	SHEET NAME
S1.00	GENERAL NOTES & SPECIFICATIONS
S1.10	SPECIAL INSPECTIONS
S1.20	SCHEDULES
S1.30	LOADING DIAGRAMS
S2.00	PLANS
S3.00	TYPICAL WOOD SHEAR WALL DETAILS
S5.00	TYPICAL FOUNDATION DETAILS
S5.10	TYPICAL WOOD DETAILS
S5.11	TYPICAL WOOD DETAILS
S5.20	TYPICAL WOOD DETAILS

architects, p.a 7133 west 95th street

CONSTRUCTION As Noted on Plans Review

overland park, ks 66212 ph: 913-649-7557 www.escarchitects.com elswood smith carlson architects, pa NOTICE DUTY OF COOPERATION Release of these plans contemplates further coopera among the owner, his contractor, and the designer.

contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans sha unauthorized, and shall relieve the designer of respon-for all consequences arriving out of such changes



swood smith carlson architects, p.a.

SUMMIT



Bryce D. Crady Structural Engineer KS# 18799 MO# 2003004673 The Professional Architects seal affixed to this sheet applies only to material and items shown on this sheet All drawings, instruments, or other documents not exhibiting this seal shall not be considered prepared by this architect, and this architect oxpressly disclaims an

and all responsibility for such plan, drawings or docunot exhibiting this seal. project no. 20091 1/28/2021 design by APEX drawn by GLS

struct. by GP

GENERAL NOTES & SPECIFICATIONS

	CONSTRUCTION TYPE	FREQUICONT.	JENC PER
1705.3	REINFORCED CONCRETE		
	REINFORCING STEEL, INCLUDING NDONS, AND PLACEMENT.		Χ
2. INSPECTION OF F	REINFORCING STEEL WELDING:		
STEEL OTHER TH	OF WELDABILITY OF REINFORCING AN ASTM A 706.		Χ
	E-PASS FILLET WELDS, MAXIMUM 5/16"	V	Χ
C. INSPECT ALL O 3. INSPECTION OF A	NCHORS CAST IN CONCRETE:	Х	Х
	NCHORS POST-INSTALLED IN		
	HORS INSTALLED IN HOIZONTALLY OR		
UPWARDLY INCLII SUSTAINED TENS	NED ORIENTATIONS TO RESIST	Х	
B. MECHANICAL A	NCHORS AND ADHESIVE ANCHORS NOT		X
DEFINED IN 4.A	F REQUIRED MIX DESIGN		X
6. PRIOR TO CONCE	RETE PLACEMENT, FABRICATE		
	RENGTH TESTS, PERFOR SLUMP AND S, AND DETERMINE THE TEMPERATURE	X	
OF THE CONCRETE			
	CONCRETE AND SHOTCRETE ROPER APPLICATION TECHNIQUES.	Х	
B. VERIFY MAINTEN. TEMPERATURE ANI	ANCE OF SPECIFIED CURING		Х
	PRESTRESSED CONCRETE:		
	F PRESTRESSING FORCES.	Х	
	BONDED PRESTRESSING TENDONS IN ICE-RESISTING SYSTEM.	Х	
10. ERECTION OF P	RECAST CONCRETE MEMBERS.		Χ
	F IN-SITU CONCRETE STRENGTH, PRIOR FENDONS IN POST-TENSIONED		Х
CONCRETE AND PR	IOR TO REMOVAL OF SHORING.		
	VORK FOR SHAPE, LOCATION AND E CONCRETE MEMBER BEING FORMED.		Х
SPECIAL INSPECTIO	ON AGENCY TO PERFORM TESTS AT SEVE GHT (28) DAYS. A STRENGTH TEST SHALL		
AVERAGE OF THE S	TRENGTHS OF AT LEAST TWO (2) 6"x12" C	YLINDE	RS
	E (3) 4"x8" CYLINDERS MADE FROM THE SA LD ONE ADDITIONAL CYLINDER IN RESERV		
PROJECT IS COMPL	ETED. TESTING LABORATORY IS TO FURN ER WITH TEST RESULTS PROMPTLY.		
	EER WITH TEST RESULTS PROMPTLY. STING IS TO BE IN ACCORDANCE WITH AC	CI 318:	
	Y A GIVEN CLASS IS PLACED, NOR LESS T		D4\
B. ONCE FOR EAC NOR LESS THAN.	CH 150 CUBIC YDS OF EACH CLASS PLACE	⊔ EACH	DAY.
C. ONCE FOR EAC	CH 5000 SQFT OR SLAB WALL OR SURFACE	E AREA	
PLACED EACH DA	Y. WOOD CONSTRUCTION		
1. HIGH-LOAD DIAPI	HRAGMS:		
	RUCTURAL PANEL SHEATHING TO THER IT IS OF THE GRADE AND		Х
THICKNESS SHOV	VN ON THE APPROVED BUILDING PLANS.		
B. NOMINAL SIZE PANEL EDGES.	OF FRAMING MEMBERS AT ADJOINING		Х
	E DIAMETER AND LENGTH, THE NUMBER IES AND THAT THE SPACING BETWEEN		
FASTENERS IN EA	CH LINE AND AT EDGE MARGINS		Χ
	E APPROVED BUILDING PLANS. ID BEARING WALLS		
A. GRADE AND TH	ICKNESS OF WOOD STRUCTURAL		X
PANELS. B. NOMINAL SIZE	OF FRAMIGN MEMBERS AT ADJOINING		
PANEL EDGES.			Х
	E DIAMETER AND LENGTH, THE NUMBER IES AND THAT THE SPACING BETWEEN		Х
FASTENERS IN EA	CH LINE AND AT EDGE CONDITIONS.		• •
D. VERIFY THE TY HOLDDOWNS.	PE, CONNECTION, AND ANCHORAGE OF		Χ
E. PROPRIETARY	COMPONENTS INSTALLED PER		Х
MANUFACTURER F. VERIFY BLOCKI	SPECIFICATIONS. NG INSTALLATION AT PANEL EDGES.		X
	DMINAL SIZE OF CHORD STUDS.		X
3. DIAPHRAGMS AN	D FLOOR FRAMING ZE AND SPACING BETWEEN BOLTS, LAG		
SCREWS, AND FR	AMING ANCHORS.		Х
B. VERIFY CONNE	CTION OF DIAPHRAGMS TO SHEAR		Х
WALLS. C. DIAPHRAGM BL	OCKING PLACEMENT AND		X
INSTALLATION.	ND DRAG STRUT PLACEMENT AND		
CONNECTIONS.			X
E. SPLICE CONNE	CTIONS, SHEAR TRANSFER CLIPS, AND NECTIONS BETWEEN FLOOR.		Х
F. PROPRIETRY C	OMPONENTS INSTALLED PER		X
MANUFACTURER			
4. GENERAL WOOD A. VERIFY THE SIZ	FRAMING ZE AND SPACING BETWEEN BOLTS, LAG		X
	AMING ANCHORS.		X
D MAIL OF COTE	V DIAMETER AND LENGTH, THE NUMBER IES AND SPACING FOR BUILT UP WOOD		Х
OF FASTENER LIN MEMBERS.	EDAMINIC		V
OF FASTENER LIN MEMBERS. C. JAMB AND SILL	FRAMING. AT BEAM BEARING LOCATIONS.		X
OF FASTENER LIN MEMBERS. C. JAMB AND SILL D. ATTACHMENT A E. PROPRIETARY	AT BEAM BEARING LOCATIONS. COMPONENTS INSTALLED PER		
OF FASTENER LIN MEMBERS. C. JAMB AND SILL D. ATTACHMENT A E. PROPRIETARY MANUFACTURER	AT BEAM BEARING LOCATIONS. COMPONENTS INSTALLED PER SPECIFICATIONS.		Х
OF FASTENER LINMEMBERS. C. JAMB AND SILL D. ATTACHMENT A E. PROPRIETARY MANUFACTURER F. CUTTING, NOTO SPECIFICATIONS.	AT BEAM BEARING LOCATIONS. COMPONENTS INSTALLED PER SPECIFICATIONS. CHING, AND HOLES COMPLY WITH PLAN VERIFY SIZE, LOCATION, AND SHAPE DO		Х
OF FASTENER LINMEMBERS. C. JAMB AND SILL D. ATTACHMENT A E. PROPRIETARY MANUFACTURER F. CUTTING, NOTO SPECIFICATIONS. NOT EXCEED LIMI	AT BEAM BEARING LOCATIONS. COMPONENTS INSTALLED PER SPECIFICATIONS. CHING, AND HOLES COMPLY WITH PLAN		X
OF FASTENER LINMEMBERS. C. JAMB AND SILL D. ATTACHMENT A E. PROPRIETARY MANUFACTURER F. CUTTING, NOTE SPECIFICATIONS. NOT EXCEED LIMI SHRINKAGE DIAG 1705.6	AT BEAM BEARING LOCATIONS. COMPONENTS INSTALLED PER SPECIFICATIONS. CHING, AND HOLES COMPLY WITH PLAN VERIFY SIZE, LOCATION, AND SHAPE DO TS IN FRAMING DETAILS AND WOOD RAM RECOMMENDATIONS. SOILS		X
OF FASTENER LIN MEMBERS. C. JAMB AND SILL D. ATTACHMENT AS E. PROPRIETARY MANUFACTURER F. CUTTING, NOTE SPECIFICATIONS. NOT EXCEED LIMIN SHRINKAGE DIAG 1705.6 1. VERIFY MATERIAL	AT BEAM BEARING LOCATIONS. COMPONENTS INSTALLED PER SPECIFICATIONS. CHING, AND HOLES COMPLY WITH PLAN VERIFY SIZE, LOCATION, AND SHAPE DO TS IN FRAMING DETAILS AND WOOD RAM RECOMMENDATIONS.		X
OF FASTENER LIN MEMBERS. C. JAMB AND SILL D. ATTACHMENT / E. PROPRIETARY MANUFACTURER F. CUTTING, NOTO SPECIFICATIONS. NOT EXCEED LIMI SHRINKAGE DIAG 1705.6 1. VERIFY MATERIAL ADEQUATE TO ACH 2. VERIFY EXCAVAT	AT BEAM BEARING LOCATIONS. COMPONENTS INSTALLED PER SPECIFICATIONS. CHING, AND HOLES COMPLY WITH PLAN VERIFY SIZE, LOCATION, AND SHAPE DO TS IN FRAMING DETAILS AND WOOD RAM RECOMMENDATIONS. SOILS LS BELOW SHALLOW FOUNDATIONS ARE IEVE THE DESIGN BEARING CAPACITY. IONS ARE EXTENDED TO PROPER		X X X
OF FASTENER LIN MEMBERS. C. JAMB AND SILL D. ATTACHMENT ATTACHMENT ATTACHMENT ATTACHMENT ATTACHMENT ATTACHMENT ATTACHMENT AND	AT BEAM BEARING LOCATIONS. COMPONENTS INSTALLED PER SPECIFICATIONS. CHING, AND HOLES COMPLY WITH PLAN VERIFY SIZE, LOCATION, AND SHAPE DO TS IN FRAMING DETAILS AND WOOD RAM RECOMMENDATIONS. SOILS S BELOW SHALLOW FOUNDATIONS ARE IEVE THE DESIGN BEARING CAPACITY.		x x x
OF FASTENER LIN MEMBERS. C. JAMB AND SILL D. ATTACHMENT ATTACHMENT ATTACHMENT ATTACHMENT ATTACHMENT ATTACHMENT AND HAVE FOR AND HAVE FOR ATTACHMENT AND HAVE FOR	AT BEAM BEARING LOCATIONS. COMPONENTS INSTALLED PER SPECIFICATIONS. CHING, AND HOLES COMPLY WITH PLAN VERIFY SIZE, LOCATION, AND SHAPE DO TS IN FRAMING DETAILS AND WOOD RAM RECOMMENDATIONS. SOILS LS BELOW SHALLOW FOUNDATIONS ARE IEVE THE DESIGN BEARING CAPACITY. IONS ARE EXTENDED TO PROPER REACHED PROPER MATERIAL. IFICATION AND TESTING OF IATERIALS.		X X X
OF FASTENER LIN MEMBERS. C. JAMB AND SILL D. ATTACHMENT AND SILL D. ATTACHMENT AND SILL D. ATTACHMENT AND SPECIFICATIONS. NOT EXCEED LIMING SPECIFICATIONS. NOT EXCEED LIMING SHRINKAGE DIAGED AND SHRINKAGE DIAGED SHRIPP EXCAVAT DEPTH AND HAVE FOR STATE OF THE STATE	AT BEAM BEARING LOCATIONS. COMPONENTS INSTALLED PER SPECIFICATIONS. CHING, AND HOLES COMPLY WITH PLAN VERIFY SIZE, LOCATION, AND SHAPE DO TS IN FRAMING DETAILS AND WOOD RAM RECOMMENDATIONS. SOILS AS BELOW SHALLOW FOUNDATIONS ARE IEVE THE DESIGN BEARING CAPACITY. IONS ARE EXTENDED TO PROPER REACHED PROPER MATERIAL. IFICATION AND TESTING OF IATERIALS. ROPER MATERIALS, DENSITIES AND DURING PLACEMENT AND COMPACTION	X	x x x
OF FASTENER LIN MEMBERS. C. JAMB AND SILL D. ATTACHMENT ATTACHMENT ATTACHMENT ATTACHMENT ATTACHMENT ATTACHMENT ATTACHMENT AND	AT BEAM BEARING LOCATIONS. COMPONENTS INSTALLED PER SPECIFICATIONS. CHING, AND HOLES COMPLY WITH PLAN VERIFY SIZE, LOCATION, AND SHAPE DO TS IN FRAMING DETAILS AND WOOD RAM RECOMMENDATIONS. SOILS AS BELOW SHALLOW FOUNDATIONS ARE IEVE THE DESIGN BEARING CAPACITY. IONS ARE EXTENDED TO PROPER REACHED PROPER MATERIAL. IFICATION AND TESTING OF IATERIALS. ROPER MATERIALS, DENSITIES AND DURING PLACEMENT AND COMPACTION	X	x x x

STATEMENT OF SPECIAL INSPECTION

CONSTRUCTION
As Noted on Plans Review

Development Services Department

RELEASED FOR

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overland park, ks 66212
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elswood smith carlson architects, pa.

Kansas state certificate of authority # A-142
Missouri state certificate of authority # 000338

NOTICE DUTY OF COOPERATION
Release of these plans contemplates further cooperation among the owner, his contractor, and the designer.

Design and construction are complex. Although the designer and his consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the designer. A failure to cooperate by a simple notice to the designer shall relieve the designer from responsibility for all consequences. Changes made from the plans without the consent of the designer are unauthorized, and shall relieve the designer of responsibility for all consequences arriving out of such changes.

Contractor shall check and verify all dimensions.



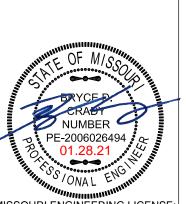


/ FARMS

SUMMIT VIE
POOL HOUSE
LEE'S SUMMIT, MISSO

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KS# 18799
MO# 2003004673

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Project no. 20091

date 1/28/2021

revised
design by APEX
drawn by GLS
struct. by GP

SPECIAL INSPECTIONS

sheet no. S1.10

SCHEDULE - SHEAR WALLS										
		SI	SHEATHING		EDGE	NAILS	LTP4 / A35	SILL PLATE ATTACHMENT		
MARK	BLOCKED	TYPE	THICKNESS	PLACEMENT	SIZE	SPACING	SPACING	NAILING	1/2" DIA A.B. SPACING	
SW-1	Yes	WSP-SHEATHING	7/16"	ONE-SIDE	8d	6"	16"	16d AT 6" OC	32"	L
. WSP = WOOD STRUCTURAL PANEL PLYWOOD OR OSB.										

NAIL SIZES GIVEN ARE FOR COMMON NAILS OR GALVANIZED (HOT-DIPPED OR TUMBLED) BOX NAILS. SINKER NAILS, COOLER NAILS, ETC. SHALL NOT BE USED FOR WSP SHEAR WALLS.

SHEAR WALL NAILS SHALL HAVE FULL HEADS, CLIPPED NAILS ARE NOT ALLOWED.

ALL NAILS SHALL BE DRIVEN SUCH THAT THE HEAD IS FLUSH WITH FACE OF SHEATHING. DO NO OVERDRIVE NAILS.

PROVIDE INTERMEDIATE NAILING (FIELD) AT 12" OC, TYP.

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.

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 ½" OF SHEAR WALL SHEATHING. AT WALLS DESIGNATED AS FORCE TRANSFER SHEAR WALLS, PROVIDE SIMPSON STRAP ABOVE AND BELOW ALL OPENINGS PER SHEAR WALL DETAIL

END STUDS MUST CONTINUE DOWN TO FOUNDATION WALL UNLESS INTERRUPTED BY TRANSFER BEAM.

). TRIM/JAMB STUDS OF OPENINGS DO NOT COUNT TOWARDS THE REQUIRED NUMBER OF END STUDS IN A SHEAR WALL.

. PROVIDE DOUBLE STUDS AND BLOCKING NAILED TOGETHER WITH (2) 16d NAILS AT 6" OC OR 3" NOMINAL STUDS AND BLOCKING AT THE FOLLOWING

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.

2. HOLDOWNS AND STRAPS OCCUR AT THE BOTTOM OF WALLS. HOLDOWNS AND STRAPS BETWEEN FLOORS ARE CONTROLED BY THE WALL ABOVE.

SCHEDULE - CONTINUOUS FOOTING TRANS BARS (6) #6 CONT [(3) AT #3 TIES AT 24" OC

SCHEDULE - SLAB ON GRADE

MARK	SLAB PROPERTIES	SLAB REINFORCING	ADDITIONAL REQUIREMENTS
SG1	4" (TOTAL DEPTH) NW CONCRETE	#4 AT 18"OC EA WAY OR 6X6 W2.1XW2.1 WWF	10 MIL. VAPOR BARRIER ON 4" OF 3/4" CLEAN, GRADED ROCK.

SCHEDULE - WOOD WALL

WD1 2x6 AT 16" OC AT SHEATHING PANEL EDGES (4'-0" OC MAX	MARK	WALL STUDS	BLOCKING
	WD1	2x6 AT 16" OC	AT SHEATHING PANEL EDGES (4'-0" OC MAX)

SCHEDULE - HEADERS

MARK	HEADER SIZE	COMMENTS
H1	(2) 2x12	
H2	(2) 2x10	
H3	6x6	

SCHEDULE - TRUSSES

I	MARK	TRUSSES	COMMENTS
	R1	WOOD ROOF TRUSSES AT 24" OC	BY OTHERS

SCHEDULE - HOLDOWN

	MARK	HOLDOWN	MIN END POST	ANCHOR / FASTENER	FASTENER ATTACHMENT	
	HD-1	HDU2-SDS2.5	(2) 2x	5/8" DIA. THREADED ROD	8" EMBED (PI)	
1.	. ALL HOLDOWNS / STRAPS ARE SIMPSON PRODUCTS, UNO.					

ANCHORAGE DEVICES SHALL BE INSTALLED PER MANUFACUTRER SPECIFICATIONS. ALL THREADED ROD ANCHORS SHALL BE A36 (OR APPROVED EQUAL),

TOTAL CUT LENGTH OF STRAPS = END LENGTH x 2 + CLEAR SPAN. REFERENCE TYPICAL DETAILS FOR ADDITIONAL CONSTRUCTION

INFORMATION.

CAST-IN-PLACE (CIP) ANCHORS:

i. CONTRACTOR SHALL VERIFY LOCATIONS PRIOR TO FOUNDATION REBAR INSPECTION. ii. POST-INSTALLED ANCHORS ARE NOT ACCEPTABLE EQUIVALENTS

i. ANCHORS SHALL BE INSTALLED USING SIMPSON SET-XP OR HILTI

FOR CAST-IN-PLACE ANCHORS WITHOUT WRITTEN EOR APPROVAL. THEREFOR, THE LOCATION OF CAST-IN-PLACE ANCHORS IS CRITICAL. POST-INSTALLED (PI) ANCHORS:

HIT-HY 200 ADHESIVE, UNO. ii. CONTRACTOR SHALL INSTALL PER MANUFACTURER SPECIFICATIONS AND MAINTAIN MIN REQUIRED EDGE DISTANCES.

SCHEDULE - WOOD FASTENING

	IBC TABLE 2304.10.1		
DESCRIPTION OF BUILDING			TION
ELEMENTS	NUMBER AND TYPE OF FASTENER	EDGE	FIEL
	JCTURAL PANELS (WSP), SUBFLOOR, ROO SHEATHING TO FRAMING AND PARTICLEBO SHEATHING TO FRAMING ^A		
30. 3/8" - 1/2"	6d COMMON OR DEFORMED (2"x0.113") (SUBFLOOR AND WALL)	6"	12
	8d COMMON OR DEFORMED (2-1/2"x0.113") (ROOF) OR RSRS-01 (2-3/8"x0.113") NAIL (ROOF)	6"	12
	2-3/8"x0.113" NAIL (SUBFLOOR AND WALL)	6"	12
	1-3/4" 16 GAGE STAPLE, 7/16" CROWN (SUBFLOOR AND WALL)	6"	12
	2-3/8"x0.113" NAIL (ROOF)	4"	8"
	1-3/4" 16 GAGE STAPLE, 7/16" CROWN (ROOF)	3"	6"
31. 19/32" - 3/4"	8d COMMON (2-1/2"x0.131"); OR 6d DEFORMED (2"x0.113") (SUBFLOOR AND WALL)	6"	12
	8d COMMON OR DEFORMED (2-1/2"x0.131") (ROOF) OR RSRS-01 (2-3/8"x0.113") NAIL (ROOF)	6"	12
	2-3/8"x0.113" NAIL; OR 2" 16 GAGE STAPLE, 7/16" CROWN	4"	8"
32. 7/8" - 1-1/4"	10d COMMON (3"x0.148"); OR 8d DEFORMED (2-1/2"x0.131")	6"	12
	OTHER EXTERIOR WALL SHEATHING		
33. 1/2" FIBERBOARD SHEATHING	1-1/2" GALVANIZED ROOFING NAIL (7/16" HEAD DIAMETER)	3"	6"
34. 25/32" FIBERBOARD SHEATHING	1-3/4" GALVANIZED ROOFING NAIL (7/16" HEAD DIAMETER)	3"	6"
WOOI	D STRUCTURAL PANELS, COMBINATION SI UNDERLAYMENT TO FRAMING	JBFLOOR	
35. 3/4" AND LESS	8d COMMON (2-1/2"x0.131"); OR 6d DEFORMED (2"x0.113")	6"	12
36. 7/8" - 1"	8d COMMON (2-1/2"x0.131"); OR 6d DEFORMED (2"x0.113")	6"	12
37. 1-1/8" - 1-1/4"	10d COMMON (3"x0.148"); OR 8d DEFORMED (2-1/2"x0.131")	6"	12
	PANEL SIDING TO FRAMING		
38. 1/2" OR LESS	6d CORROSION-RESISTANT SIDING	6"	12

NAILS SPACED AT 6 INCHES AT INTERMEDIATE SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 2305 NAILS FOR WALL SHEATHING ARE PERMITTED TO BE COMMON, BOX OR CASING. SPACING SHALL BE 6 INCHES ON CENTER ON THE EDGES AND 12 INCHES ON CENTER AT INTERMEDIATE SUPPORTS FOR NONSTRUCTURAL APPLICATIONS PANEL SUPPORTS AT 16 INCHES (20 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED). WHERE A RAFTER IS FASTENED TO AN ADJACENT PARALLEL CEILING JOIST IN

ACCORDANCE WITH THIS SCHEDULE AND THE CEILING JOIST IS FASTENED TO

TOENAILS IN THE RAFTER SHALL BE PERMITTED TO BE REDUCED BY ONE NAIL

THE TOP PLATE IN ACCORDANCE WITH THIS SCHEDULE, THE NUMBER OF

6d FINISH (PANEL SUPPORTS AT 24 INCHES)

INTERIOR PANELING

(1-7/8"x0.106"); OR 6d CORROSION-

8d CORROSION-RESISTANT SIDING

(2-3/8"x0.128""); OR 8d CORROSION-

RESISTANT CASING (2-1/2"x0.113")

4d CASING (1-1/2"x0.080"); OR

4d FINISH (1-1/2"x0.072")

6d CASING (2"x0.099"); OR

6"

12"

12"

12"

TO STUD

PLATE

12. TOP PLATE TO TOP

3. TOP PLATE TO TOP

14. BOTTOM PLATE TO

JOIST, RIM JOIST, BAND

INTERSECTIONS

AND PLATE

JOIST OR BLOCKING (NOT

AT BRACED WALL PANELS)

PLATE, AT EA ENDS

RESISTANT CASING (2"x0.099")

SCHEDULE - WOOD FASTENING

	IBC TABLE 2304.10.1	
DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
	ROOF	
1. BLOCKING BETWEEN CEILING JOISTS, RAFTERS OR TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW.	(3) 8d COMMON (2-1/2"x0.131"); OR (3) 10d BOX (3"x0.128")	EA END, TOENAIL
BLOCKING BETWEEN RAFTERS OR TRUSS NOT	(2) 8d COMMON (2-1/2"x0.131")	EA END, TOENAIL
AT THE WALL TOP PLATE, TO RAFTER OR TRUSS.	(2) 16d COMMON (3-1/2"x0.162")	END NAIL
FLAT BLOCKING TO TRUSS AND WEB FILLER	16d COMMON (3-1/2"x0.162") AT 6" OC	FACE NAIL
2. CEILING JOIST TO TOP PLATE	(3) 8d COMMON (2-1/2"x0.131"); OR (3) 10d BOX (3"x0.128")	EA END, TOENAIL
3. CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST)	(3) 16d COMMON (3-1/2"x0.162"); OR (4) 10d BOX (3"x0.128")	FACE NAIL
4. CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	PER IBC TABLE 2308.7.3.1	FACE NAIL
5. COLLAR TIE TO RAFTER	(3) 10d COMMON (3"x0.148"); OR (4) 10d BOX (3"x0.128")	FACE NAIL
6. RAFTER OR ROOF TRUSS TO TOP PLATE	(3) 10d COMMON (3"x0.148"); OR (3) 16d BOX (3-1/2"x0.135"); OR (4) 10d BOX (3"x0.128")	TOENAIL
7. ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS;	(2) 16d COMMON (3-1/2"x0.162"); OR (3) 10d BOX (3"x0.128")	END NAIL
OR ROOF RAFTER TO 2" RIDGE BEAM	(3) 10d COMMON (3"x0.148"); OR (4) 16d COMMON (3-1/2"x0.135"); OR (4) 10d BOX (3"x0.128")	TOENAIL
	WALL	
8. STUD TO STUD (NOT AT	16d COMMON (3-1/2"x0.162"); OR	24" OC, FACE NAIL
BRACED WALL PANELS)	10d BOX (3"x0.128")	16" OC, FACE NAIL
9. STUD TO STUD AND ABUTTING STUDS AT	16d COMMON (3-1/2"x0.162")	16" OC, FACE NAIL
INTERSECTION WALL CORNERS (AT BRACED	16d BOX (3-1/2"x0.135"); OR	12" OC, FACE NAIL
WALL PANELS)	3"x0.131" NAILS	12" OC, FACE NAIL
10. BUILT-UP HEADER (2" TO 2" HEADER)	16d COMMON (3-1/2"x0.162"); OR	16" OC EA EDGE, FACE NAIL
	16d BOX (3-1/2"x0.135")	12" OC EA EDGE, FACE NAIL
11. CONTINUOUS HEADER	(4) 8d COMMON (2-1/2"x0.131"); OR	TOENAIL

(') • • • • • • • • • • • • • • • • • •		
(4) 10d BOX (3"x0.128")		•
16d COMMON (3-1/2"x0.128"); OR	16" OC FACE NAIL	
10d BOX (3"x0.128")	12" OC FACE NAIL	
(8) 16d COMMON (3-1/2"x0.162"); OR	EA SIDE OF END	<
(12) 10d BOX (3"x0.128")	JOINT, FACE NAIL	
	(MIN 24" LAP SPLICE	
	LENGTH EA JOINT)	<u> </u>
16d COMMON (3-1/2"x0.135"); OR	16" OC FACE NAIL	-(K) -
16d BOX (3-1/2"x0.135")	12" OC FACE NAIL	
, ,		
		NOTES:
(2) 16d COMMON (3-1/2"x0.162"); OR	16" OC FACE	1. USE THI
(3) 16d BOX (3-1/2"x0.135")	NAIL	DETAILS
		2. PROVID

OPPOSITE SIDES ENDS AND

AT SPLICE, FACE NAIL

RAFTER, FACE NAIL

EA END,

TOENAIL

15. BOTTOM PLATE TO (2) 16d COMMO JOIST, RIM JOIST, BAND (3) 16d BOX (3-1 JOIST OR BLOCKING AT BRACED WALL PANELS 16. STUD TO TOP OR BOTTOM (4) 8d COMMON (2-1/2"x0.131"); OR TOENAIL PLATE (4) 10d BOX (3"x0.128"); OR (2) 16d COMMON (3-1/2"x0.162"); OR END NAIL 3) 10d BOX (3"x0.128") (2) 16d COMMON (3-1/2"x0.162"); OR FACE NAIL CORNERS AND (3) 10d BOX (3"x0.128")

(2) 10d BOX (3"X0.128")

19. 1"x6" SHEATHING TO EA (2) 8d COMMON (2-1/2"x0.131"); OR (2) 10d BOX (3"X0.128") 20. 1"x8" AND WIDER (3) 8d COMMON (2-1/2"x0.131"); OR SHEATHING TO EA BEARING (3) 10d BOX (3"X0.128") 21. JOIST TO SILL, TOP (3) 8d COMMON (2-1/2"x0.131"); OR PLATE, OR GIRDER 3) 10d BOX (3"X0.128") 22. RIM JOIST, BAND JOIST, (3) 8d COMMON (2-1/2"x0.131"); OR 6" OC, TOENAIL

1" BRACE TO EA STUD (2) 8d COMMON (2-1/2"x0.131"); OR

OR BLOCKING TO TOP (3) 10d BOX (3"X0.128") PLATE, SILL OR OTHER FRAMING BELOW 23. 1"x6" SUBFLOOR OR (2) 8d COMMON (2-1/2"x0.131"); OR FACE NAIL LESS TO EA JOIST (2) 10d BOX (3"x0.128") 24. 2" SUBFLOOR TO JOIST FACE NAIL (2) 16d COMMON (3-1/2"x0.162") OR GIRDER 25. 2" PLANKS (PLANK & (2) 16d COMMON (3-1/2"x0.162") EA BEARING, FACE NAIL BEAM - FLOOR & ROOF) 26. BUILT-UP GIRDERS AND 20d COMMON (4"x0.192") 36" OC, FACE NAIL AT BEAM, 2" LUMBER LAYERS TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES 10d BOX (3"x0.128") 24" OC FACE NAIL AT TOP AND BOTTOM STAGGERED ON

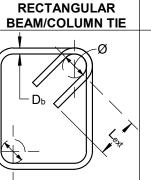
(2) 20d COMMON (4"x0.192"); OR

(3) 10d BOX (3"x0.128") 27. LEDGER STRIP (3) 16d COMMON (3-1/2"x0.162"); OR EA JOIST OR SUPPORTING JOISTS OR (4) 10d BOX (3"x0.128") RAFTERS 28. JOIST TO BAND JOIST OR (3) 16d COMMON (3-1/2"x0.162"); OR END NAIL RIM JOIST (4) 10d BOX (3"x0.128") 29. BRIDGING OR BLOCKING (2) 8d COMMON (2-1/2"x0.131"); OR

TO JOIST, RAFTER, OR TRUSS (2) 10d BOX (3"x0.128")

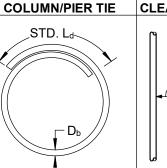
SCHEDULE - CONCRETE REBAR

DEVELOPMENT LENGTHS - Ld									
	fc	= 3000 F		OI WILIT	LLITO		"c = 4000	PSI	
BAR	STD		CLA	SS B	BAR		TD. L _d	CLA	SS B
SIZE	TYP.	TOP	TYP.	TOP	SIZE	TYP		TYP.	TOP
#4	22"	29"	29"	38"	#4	19"		25"	33"
#5	28"	36"	37"	47"	#5	24"	31"	32"	41"
#6	33"	43"	43"	56"	#6	29"	37"	38"	49"
#7	48"	63"	63"	82"	#7	42"	54"	55"	71"
#8	55"	72"	72"	94"	#8	48"	62"	63"	81"
#9	62"	81"	81"	106"	#9	54"	70"	71"	91"
		S	TANDAF	RD HOOI	KS & BA	R BEI	NDS		
	f'c	= 3000 F	PSI			f	"c = 4000	PSI	
BAR	1	"ø"	L	ext	BAR		"ø"	L	ext
SIZE	L _{dh}	W	180	90	SIZE	L _{dh}	W W	180	90
#4	6"	3"	2 1/2"	6"	#4	6"	3"	2 1/2"	6"
#5	10"	3 3/4"	2 1/2"	7 1/2"	#5	9"	3 3/4"	2 1/2"	7 1/2"
#6	12"	4 1/2"	3"	9"	#6	10"	4 1/2"	3"	9"
#7	14"	5 1/4"	3 1/2"	10 1/2"	#7	12"	5 1/4"	3 1/2"	10 1/2"
#8	16"	6"	4"	12"	#8	14"	6"	4"	12"
#9	18"	9"	4 1/2"	13 1/2"	#9	15"	9"	4 1/2"	13 1/2"
E	BAR BE	NDS	18	0 DEGR	EE HOC	K	90 DE	GREE H	OOK
L Db	Ø	-	CRITICAL		Lexi)ø	CRITICAL	D _b	Ø L _{ext}
STIRRUPS, TIES, & HOOPS									
BAR	Ø		L _{ext}	•	BAR	Ø		L _{ext}	
SIZE	Ø	90	135	180	SIZE	ש	90	135	180
#3	1 1/2"	3"	3"	2 1/2"	#6	4 1/2	." 9"	4 1/2"	3"
#4	2"	3"	3"	2 1/2"	#7	5 1/4	" 10 1/2"	5 1/4"	3 1/2"
#5	2 1/2"	3 3/4"	3 3/4"	2 1/2"	#8	6"	12"	6"	4"
90 [DEGREE	HOOK	13	5 DEGR	EE HOC	K	180 DI	EGREE H	IOOK
V	- D _b	Ø L _{ext}	5	↓ D _b	ø		■ D _k	—(o

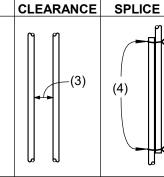


B. ≤7'-0" = 6" BEARING

C. >7'-0" = 8" BEARING



CIRCULAR



-L_{ext}-



HE ABOVE TABLE UNLESS NOTED OTHERSIZE ON PLAN OR IN

DE 6" LAP AT ALL WELDED WIRE FABRIC JOINTS. 3. PROVIDE 1 Db (1" MINIMUM) CLEARANCE BETWEEN ADJACENT BARS. 4. PROVIDE WIRE TIES AT EACH END OF BAR SPLICE.

SCHEDULE - LOOSE LINTEL MAX OPENING, ft **NO JOINTS AT JOINTS AT OPENINGS** LINTEL SIZE OPENINGS ≤ 10' BRICK ABOVE > 10' BRICK ABOVE ≤ 20' L3 1/2x3x1/4 LLH 6' - 0" 3' - 8" 2' - 8" 7' - 4" L4x3 1/2x1/4 LLV 4' - 8" 3' - 4" L5x3 1/2x5/16 LLV 8' - 8" 6' - 0" 4' - 8" L6x4x3/8 LLV 10' - 8" 7' - 4" 6' - 0"

L7x4x3/8 LLV 12' - 0" 8' - 8" 6' - 8" NOTES: BRICK OVER OPENINGS MUST BE GREATER THAN SPAN/2 TO USE **"NO JOINTS AT OPENINGS"** VALUES. IF BRICK OVER OPENINGS IS LESS THAN SPAN/2 USE THE VALUES IN "JOINTS AT OPENINGS". 2. LOOSE LINTELS MUST BE SUPPORTED DURING PLACEMENT OF BRICK TO ENSURE EVEN LOADING. 3. (1) ANGLE FOR EACH 4" WITHE OF MASONRY 4. RÉFERENCE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND LOCATIONS 5. LOOSE LINTEL MUST BE INSTALLED TIGHT AGAINST BRICK. LOOSE 6. LINTEL BEARING: LINTEL A. ≤5'-0" = 4" BEARING

overland park, ks 66212 ph: 913-649-7557 www.escarchitects.com elswood smith carlson architects, pa. Release of these plans contemplates further cooperatio among the owner, his contractor, and the designer. Design and construction are complex. Although the designer and his consultants have performed their sen with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans sha

unauthorized, and shall relieve the designer of respon-for all consequences arriving out of such changes. Contractor shall check and verify all dimensions.

smith

carlson

architects, p.a.

7133 west 95th street

CONSTRUCTION As Noted on Plans Review



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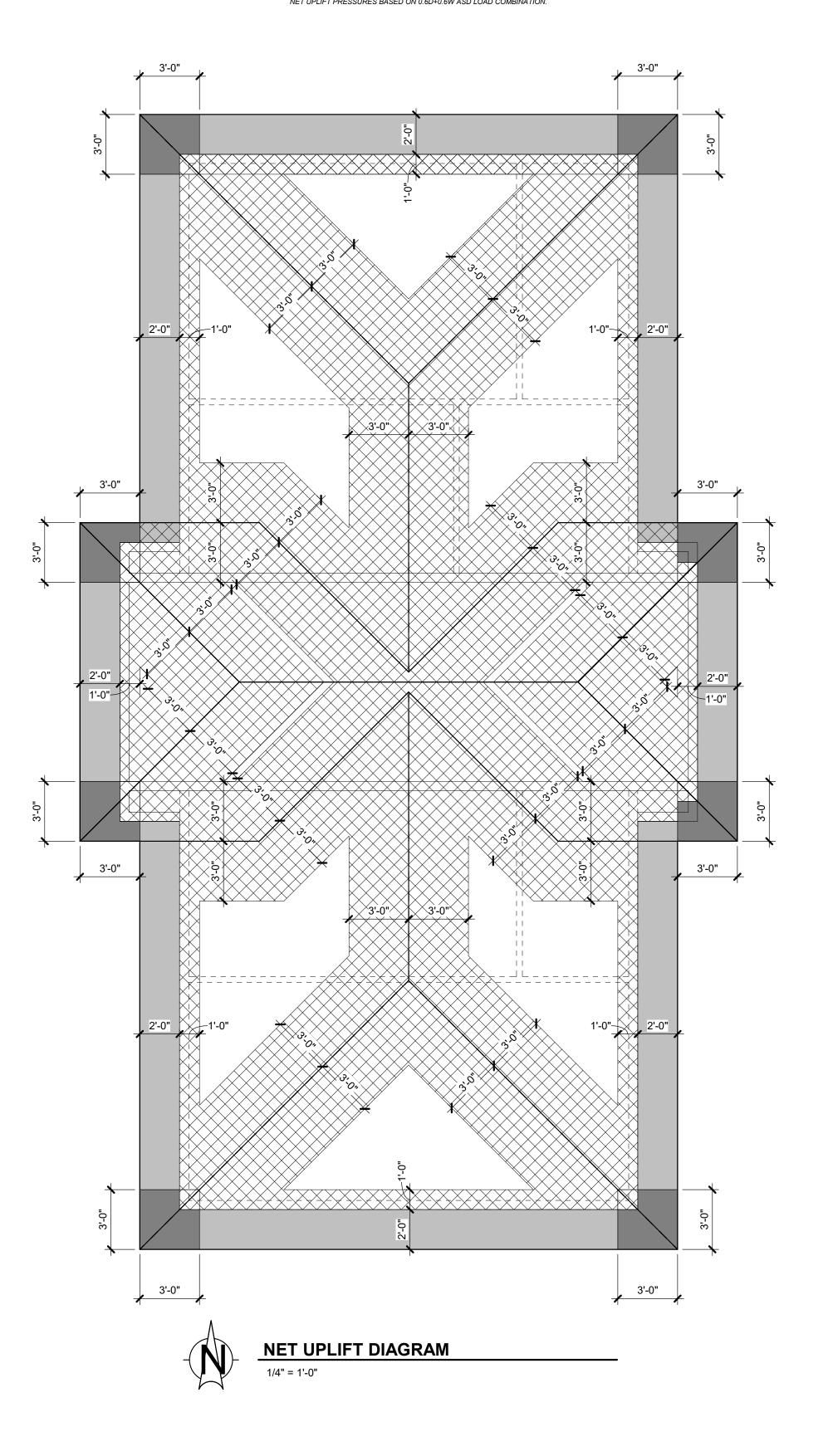
Bryce D. Crady Structural Engineer KS# 18799

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date revised design by APEX drawn by GLS struct. by GP

SCHEDULES



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As Noted on Plans Review

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FARMS

LEE'S SUMMIT,



Bryce D. Crady
Structural Engineer
KS# 18799
MO# 2003004673

project no. 20091
date 1/28/2021

revised
design by APEX
drawn by GLS
struct. by GP

LOADING **DIAGRAMS**

sheet no. S1.30

FOUNDATION PLAN

1/4" = 1'-0"

PLAN NOTES - FOUNDATIONS

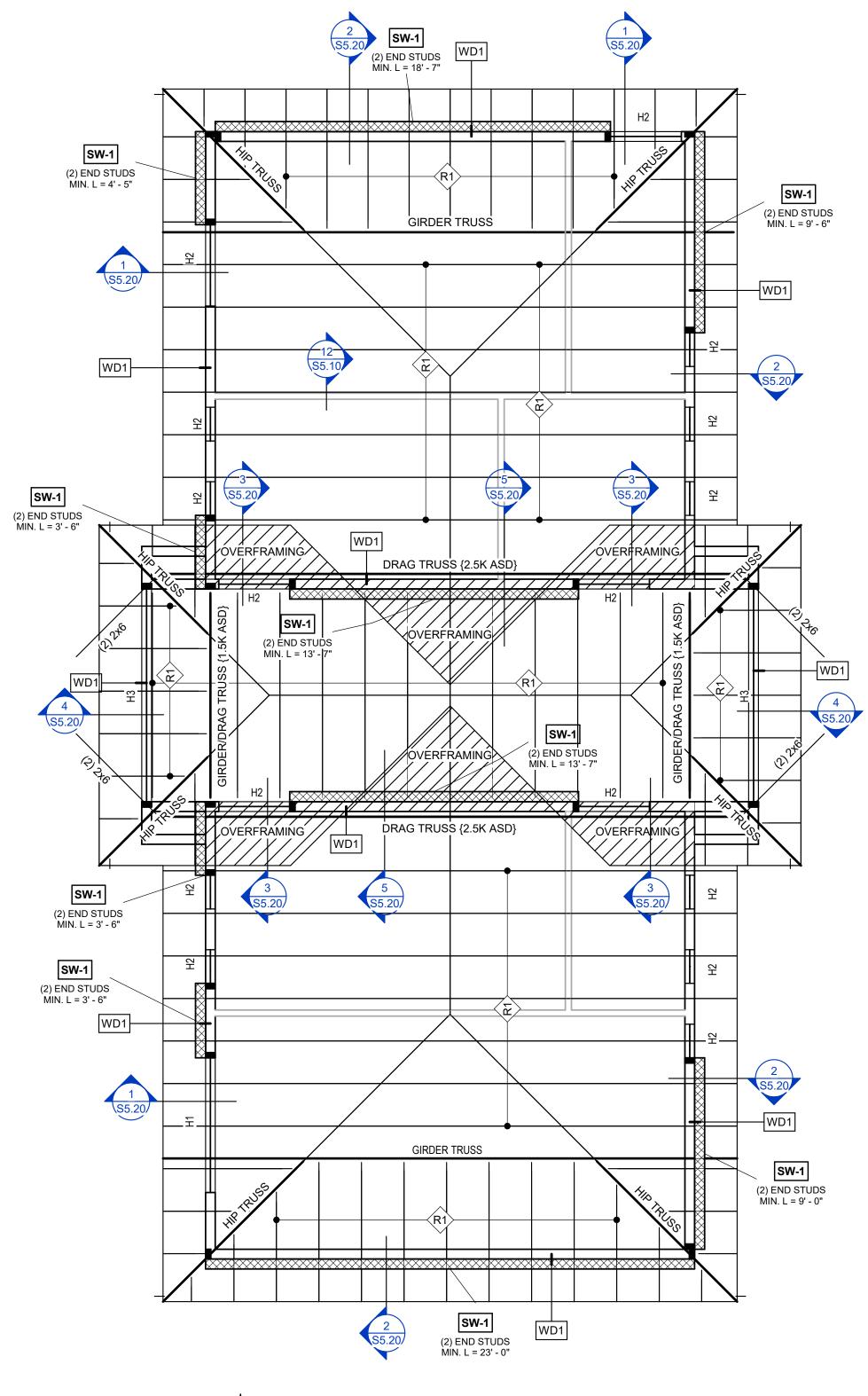
- PROVIDE CONTROL JOINTS (1/4 SLAB DEPTH) AT 10'-0" OC BOTH WAYS, NOT SHOWN FOR CLARITY.
 CONTRACTOR TO VERIFY ALL FOUNDATION ELEVATIONS AND STEPS PER SITE CONDITIONS.
- 3. TOP OF SLAB ELEVATION SHOWN IN PLAN IS FOR REFERENCE ONLY.4. REFERENCE ARCHITECTURAL DRAWINGS FOR WALL OPENING DIMENSIONS, EXTERIOR FINISHES AND ADDITIONAL NOTES.
- 5. REFERENCE GENERAL NOTES SHEET FOR ADDITIONAL FOUNDATION SPECIFICATIONS.
- 6. CONTRACTOR TO CONTACT APEX ENGINEERS, INC AT LEAST 48 HRS IN ADVANCE OF ANY CONCRETE POUR.

SC	HEDU	ILE - C	CONTINUOUS	FOOTING
RK	WIDTH	DEPTH	LONG BARS	TRANS BARS
1	2' - 0"	36"	(6) #6 CONT [(3) AT T&B]	#3 TIES AT 24" OC

	SCHEDULE - SLAB ON GRADE					
MARK	SLAB PROPERTIES	SLAB REINFORCING	ADDITIONAL REQUIREMENTS			
SG1	4" (TOTAL DEPTH) NW CONCRETE	#4 AT 18"OC EA WAY OR 6X6 W2.1XW2.1 WWF	10 MIL. VAPOR BARRIER ON 4" OF 3/4" CLEAN, GRADED ROCK.			

SHEAR WALL HOLDOWN COORDINATION NOTE:

GENERAL CONTRACTOR IS REQUIRED TO COORDINATE LOCATION OF ALL HOLDOWNS PER THE SHEAR WALL SCHEDULE & PLANS PRIOR TO FOUNDATION WALL POUR. REFERENCE SHEAR WALL DETAILS FOR DIFFERENT STRAP AND HOLDOWN CONDITIONS. APEX RECOMMENDS PROVIDING SHOP DRAWINGS FOR SHEAR WALL HOLDOWN/EMBED LOCATIONS. POST INSTALLED HOLDOWN ANCHORS ARE NOT ACCEPTABLE.





FRAMING PLAN

PLAN NOTES - WOOD ROOF NOTES

ROOF SHEATHING: 5/8" NOMINAL APA RATED WSP, 40/20 SPAN RATING. PANEL FASTENED WITH 10d NAILS AT 6" OC EDGE AND 12" OC FIELD.
 ROOF CONSTRUCTION: REFERENCE ARCHITECTURAL DRAWINGS FOR ROOF MATERIAL, WATERPROOFING MEMBRANE, AND INSULATION.
 WALL CONSTRUCTION: STUD GRADE 2x6 SPF STUDS AT 16 OC MAX, UNO.
 WALL SHEATHING: 7/16" APA RATED WSP, 24/16 SPAN RATING. PANEL EDGES FASTENED WITH 8d NAILS AT 6" OC EDGE AND 12" OC FIELD.

- 5. ALL UNMARKED HEADERS SHALL BE MIN (2) 2x10, UNO.
 6. REFERENCE GENERAL NOTES FOR ADDITIONAL SPECIFICATIONS.
 7. REFERENCE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, EINISHES, AND ADDITIONAL NOTES.
- FINISHES, AND ADDITIONAL NOTES.

 8. REFERENCE MECHANICAL DRAWINGS FOR ADDITIONAL RTU INFORMATION.

SCHEDULE - HEADERS					
	COMMENTS	HEADER SIZE	MARK		
		(2) 2x12	H1		
		(2) 2x10	H2		
		6x6	H3		
_	COMMENTS	(2) 2x12 (2) 2x10	H1 H2		

	SCHED	JLE - TRUSSES
MARK	TRUSSES	COMMENTS
R1	WOOD ROOF TRUSSES AT 24" OC	BY OTHERS

	SCHED	JLE - WOOD WALL
MARK	WALL STUDS	BLOCKING
WD1	2x6 AT 16" OC	AT SHEATHING PANEL EDGES (4'-0" OC MAX)

elswood smith carlson

CONSTRUCTION

architects, p.a.
7133 west 95th street

suite 200 overland park, ks 66212 ph: 913-649-7557 www.escarchitects.com

ansas state certificate of autinority # A-142 issouri state certificate of authority # 000338

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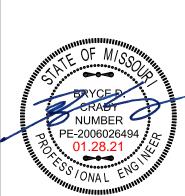
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Bryce D. Crady Structural Engineer KS# 18799 MO# 2003004673

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sheet no.

PLANS

RELEASED FOR CONSTRUCTION As Noted on Plans Review

R 4

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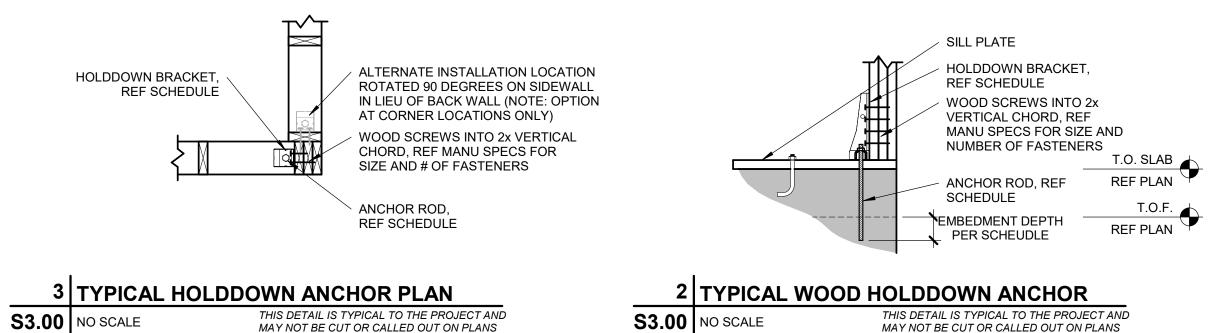
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project no. 20091 1/28/2021 date revised

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> TYPICAL WOOD SHEAR WALL **DETAILS**

sheet no.



			SC	HEDULE	- SHE	AR WA	LLS		
		S	HEATHING		EDGE	NAILS	LTP4 / A35	SILL PLATE A	TTACHMENT
MARK	BLOCKED	TYPE	THICKNESS	PLACEMENT	SIZE	SPACING	SPACING	NAILING	1/2" DIA A.B. SPACING
SW-1	Yes	WSP-SHEATHING	7/16"	ONE-SIDE	8d	6"	16"	16d AT 6" OC	32"

MAY NOT BE CUT OR CALLED OUT ON PLANS

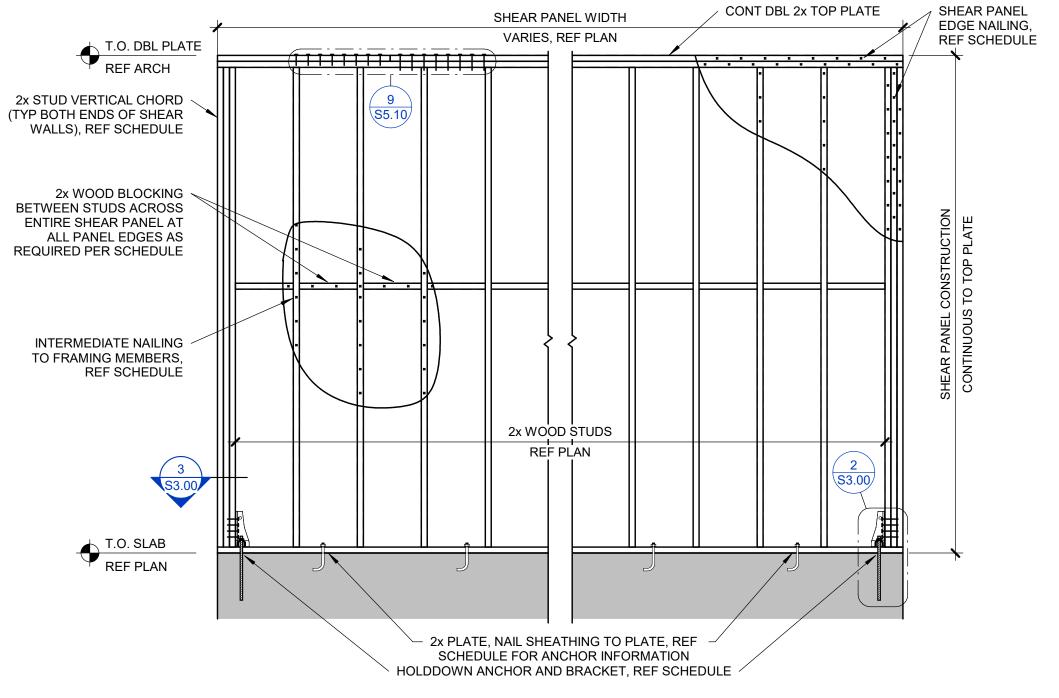
WSP = WOOD STRUCTURAL PANEL PLYWOOD OR OSB.

MAY NOT BE CUT OR CALLED OUT ON PLANS

- NAIL SIZES GIVEN ARE FOR COMMON NAILS OR GALVANIZED (HOT-DIPPED OR TUMBLED) BOX NAILS. SINKER NAILS, COOLER NAILS, ETC. SHALL NOT BE USED FOR WSP SHEAR WALLS.
- SHEAR WALL NAILS SHALL HAVE FULL HEADS, CLIPPED NAILS ARE NOT ALLOWED.
- ALL NAILS SHALL BE DRIVEN SUCH THAT THE HEAD IS FLUSH WITH FACE OF SHEATHING. DO NO OVERDRIVE NAILS.
- PROVIDE INTERMEDIATE NAILING (FIELD) AT 12" OC, TYP.
- 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. 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 ½" OF SHEAR WALL SHEATHING. AT WALLS DESIGNATED AS FORCE TRANSFER SHEAR WALLS, PROVIDE SIMPSON STRAP ABOVE AND BELOW ALL OPENINGS PER SHEAR WALL DETAIL.
- END STUDS MUST CONTINUE DOWN TO FOUNDATION WALL UNLESS INTERRUPTED BY TRANSFER BEAM.
- 1. PROVIDE DOUBLE STUDS AND BLOCKING NAILED TOGETHER WITH (2) 16d NAILS AT 6" OC OR 3" NOMINAL STUDS AND BLOCKING AT THE FOLLOWING
- 10. TRIM/JAMB STUDS OF OPENINGS DO NOT COUNT TOWARDS THE REQUIRED NUMBER OF END STUDS IN A SHEAR WALL.
- i. 2" OC EDGE NAIL SPACING

CONDITIONS:

- 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. HOLDOWNS AND STRAPS OCCUR AT THE BOTTOM OF WALLS. HOLDOWNS AND STRAPS BETWEEN FLOORS ARE CONTROLED BY THE WALL ABOVE.



TYPICAL SINGLE STORY BRACED WOOD

MAY NOT BE CUT OR CALLED OUT ON PLANS

1 WALL THIS DETAIL IS TYPICAL TO THE PROJECT AND S3.00 NO SCALE

elswood

Bryce D. Crady Structural Engineer KS# 18799 MO# 2003004673

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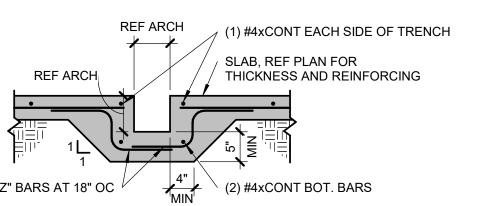
1/28/2021 revised design by APEX

struct. by GP **TYPICAL FOUNDATION**

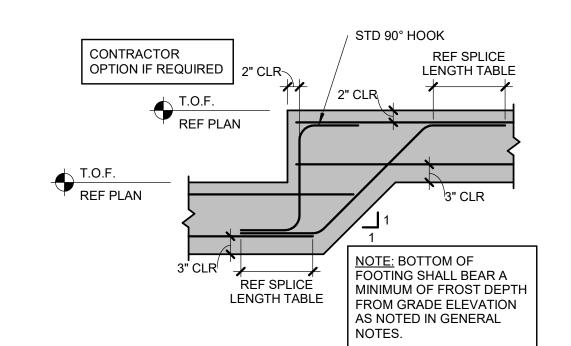
sheet no.

drawn by GLS

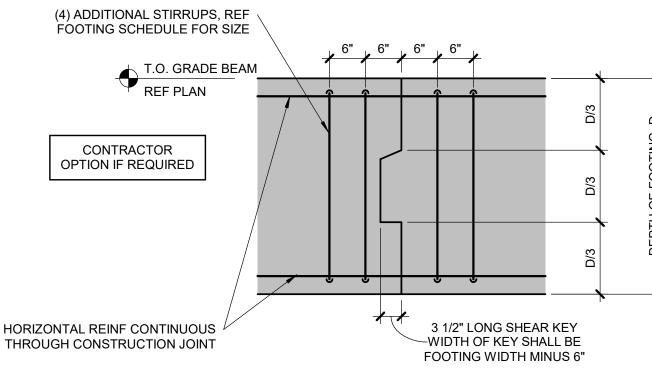
DETAILS



11 TYP SLAB AT TRENCH **\$5.00** NO SCALE THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS



10 TYP FOOTING STEP THIS DETAIL IS TYPICAL TO THE PROJECT AND S5.00 NO SCALE MAY NOT BE CUT OR CALLED OUT ON PLANS



CORNER BARS AS SHOWN,

SIZE TO MATCH TOP AND

BOTTOM BARS, REF PLAN

CONT. TOP AND BOTTOM

Ld = CLASS B TENSION SPLICE

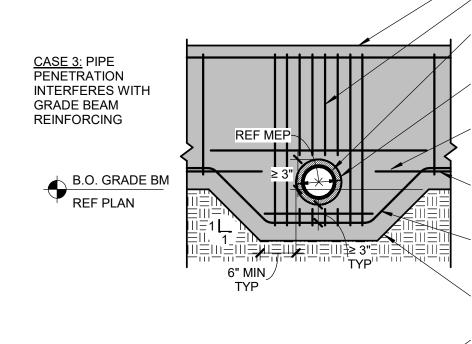
8 TYP FOUNDATION CORNER DETAIL

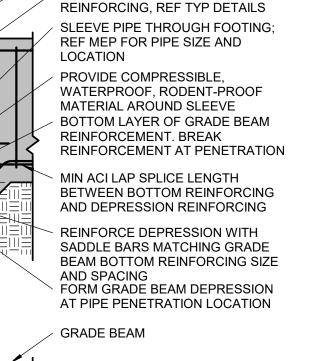
9 JOINT

S5.00 NO SCALE

\$5.00 NO SCALE

TYP TYP MIN WIDTH MIN 6 GRADE BEAM PIPE SLEEVE S5.00 NO SCALE **, TYP GRADE BEAM CONSTRUCTION** THIS DETAIL IS TYPICAL TO THE PROJECT AND CASE 3: PIPE PENETRATION MAY NOT BE CUT OR CALLED OUT ON PLANS INTERFERES WITH **GRADE BEAM** REINFORCING





PROVIDE (2) ADDITIONAL STIRRUPS EACH SIDE

OF EACH PÉNETRATION. (STIRRUP TYPE AND

SQUARE OR RECTANGULAR PENETRATION

SIZE TO BE SAME AS THOSE IN BEAM).

SEE NOTE 9

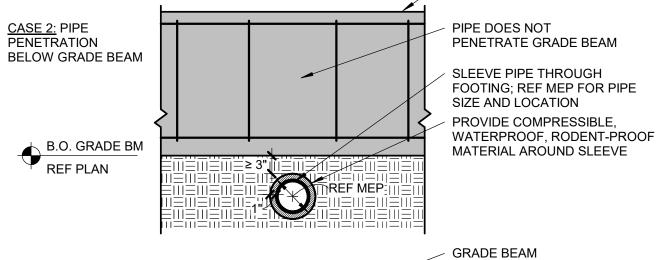
PEN 2'-0"

THIS DETAIL IS TYPICAL TO THE PROJECT AND

GRADE BEAM

ADDITIONAL PENETRATION

MAY NOT BE CUT OR CALLED OUT ON PLANS



NOTES:

1. CONTRACTOR TO COORDINATE LOCATION, SIZE AND ELEVATION AND INCLUDE IN HIS CONTRACT PRICE ALL REQUIRED HORIZONTAL PENETRATIONS THROUGH CONCRETE BEAMS WHETHER SHOWN ON STRUCTURAL DRAWINGS OR NOT.

2. WHER BEAM PENETRATIONS ARE REQUIRED BUT ARE NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS, SUBMIT DRAWINGS, SHOWING DIMENSIONS AND LOCATIONS OF ALL REQUIRED PENETRATIONS, FOR REVIEW AND APPROVAL.

CLEAR SPACING BETWEEN PENETRATIONS SHALL BE 24" MINIMUM UNLESS DESIGNED OTHERWISE BY THE ENGINEER.
 PENETRATIONS SHALL BE LOCATED ACCORDING TO THE FOLLOWING CRITERIA:

 FOR BEAMS NOT SUPPORTING INTERSECTING BEAMS: LOCATE PENETRATIONS WITHIN TWO FEET EITHER SIDE OF BEAM MIDSPAN.
 FOR BEAMS SUPPORTING INTERSECTING BEAMS: CHECK WITH STRUCTURAL ENGINEER.

 AT EACH SLEEVE, UNLESS REQUIRED OTHERWISE BY NOTE #7 BELOW, PROVIDE THE FOLLOWING:

 (1) #5 TOP AND BOTTOM AT BEAMS WITH WIDTHS LESS THAN 9".
 (2) #5 TOP AND BOTTOM AT BEAMS WITH (2) LEG STIRRUPS.

PENETRATION WIDTH <= PENETRATION DEPTH (UNLESS SHOWN OTHERWISE ON THE STRUCTURAL DRAWINGS).
FOR LOCATIONS AND/OR SIZES OF PENETRATIONS NOT CONFORMING TO THE ABOVE CRITERIA AND NOT OTHERWISE DETAILED ON THE

STRUCTURAL DRAWINGS, CONTRACTOR SHALL COORDINATE REQUIRED ADDITIONAL REINFORCEMENT WITH THE ENGINEER ON THE PROVIDE ADDITIONAL STIRRUPS AT SPACING NOT TO EXCEED ONE HALF OF THE SCHEDULED STIRRUP SPACING (UNLESS DETAILED

OTHERWISE ON THE STRUCTURAL DRAWINGS).

10. SEPARATE THE UTILITIES PASSING THRU SLEEVES / PENETRATIONS TO ADEQUATELY ACCOMMODATE ANY POTENTIAL SWELL FROM THE ON-SITE SOILS.

EACH PENETRATION

<u>PLAN</u>

ADDITIONAL REINFORCEMENT AT

"D" DENOTES THE DEPTH OF BEAM.

CLEAR SPACING BETWEEN PENETRATIONS SHALL BE 24" MINIMUM UNLESS DESIGNED OTHERWISE BY THE ENGINEER.

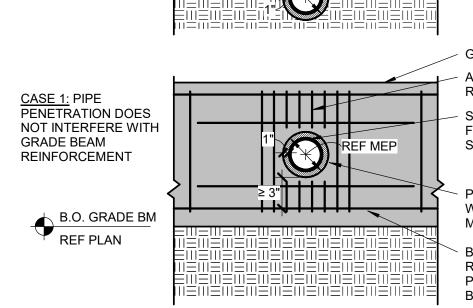
(4) #5 TOP AND BOTTOM AT BEAMS WITH (4) LEG STIRRUPS. (N) #5 TOP AND BOTTOM AT BEAMS WITH (N) LEG STIRRUPS.

BEAM TOP AND BOTTOM REINFORCING

ROUND PENETRATION

SEE NOTE 9

1 1/2"



ADDITIONAL PENETRATION REINFORCING, REF TYP DETAILS SLEEVE PIPE THROUGH

GRADE BEAM AT PIPE PENETRATION THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS

B.O.F REF PLAN

, MAXIMUM SLOPE BETWEEN ADJACENT

B.O.F.

REF PLAN

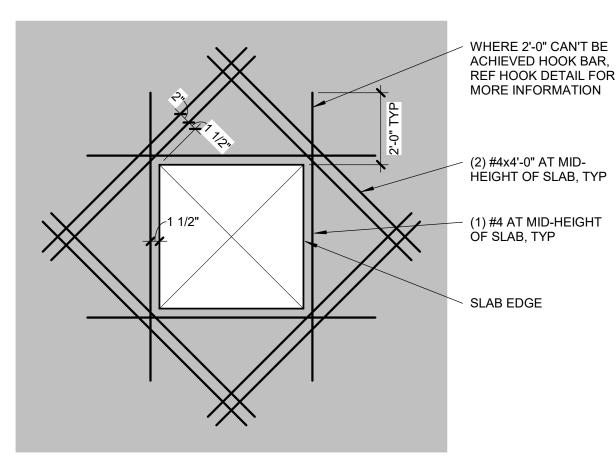
MAXIMUM 45 DEGREE SLOPE

FOUNDATION AS REQUIRED

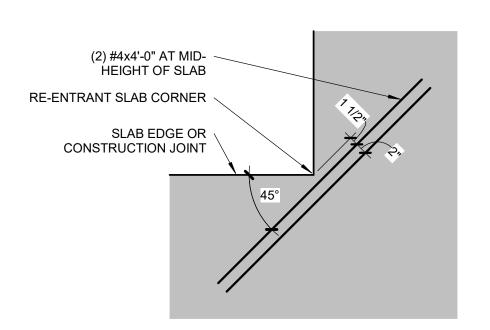
OR FOUNDATION, STEP

BETWEEN ADJACENT FOOTINGS

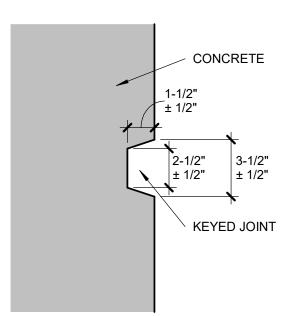
4 FOUNDATIONS THIS DETAIL IS TYPICAL TO THE PROJECT AND **\$5.00** NO SCALE MAY NOT BE CUT OR CALLED OUT ON PLANS



3 TYP OPENING IN CONCRETE SLAB THIS DETAIL IS TYPICAL TO THE PROJECT AND \$5.00 NO SCALE MAY NOT BE CUT OR CALLED OUT ON PLANS



TYP RE-ENTRANT CORNER IN 2 CONCRETE SLAB THIS DETAIL IS TYPICAL TO THE PROJECT AND **\$5.00** NO SCALE MAY NOT BE CUT OR CALLED OUT ON PLANS



1 TYP KEY IN CONCRETE THIS DETAIL IS TYPICAL TO THE PROJECT AND MAY NOT BE CUT OR CALLED OUT ON PLANS \$5.00 NO SCALE

12 SLAB ON GRADE CONTROL JOINT THIS DETAIL IS TYPICAL TO THE PROJECT AND **\$5.00** NO SCALE **\$5.00** NO SCALE MAY NOT BE CUT OR CALLED OUT ON PLANS

GLAZING AS OCCURS, REF ARCH

#4x18" SMOOTH DOWELS AT

12" OC ACROSS THRESHOLD

EXTERIOR HARDSCAPE,

T.O. SLAB

T.O.F.
REF PLAN

T.O. SLAB REF PLAN

T.O.F.

REF PLAN

S5.00 3/4" = 1'-0"

GRADE, REF ARCH/CIVIL

S5.00 3/4" = 1'-0"

SUBBASE, REF PLAN

SUBBASE, REF PLAN

3" CLR

SAW-CUT MIN 1/4 x SLAB

MIN 2x4 KEY IN THICKENED

BOND BREAKER (ONE SIDE)

SLAB AT JOINT

T.O. SLAB
REF PLAN

T.O.F.
REF PLAN

REF PLAN

REF ARCH/CIVIL

3" CLR

15 THRESHOLD AT TRENCH FOOTING S5.00 3/4" = 1'-0"

14 TYPICAL INTERIOR FOUNDATION WALL

13 WOOD FRAMING ON TRENCH FOOTING

CONTRACTION JOINT DETAIL

CONSTRUCTION JOINT DETAIL

SLAB, REF PLAN

SUBBASE, REF PLAN

1) #4xCONT. BAR AT

THICKENED SLAB EDGE

FOUNDATION, REF PLAN

CL STUD WALL CL FOOTING

WALL FRAMING, REF PLAN

SHEATHING, REF PLAN

2x TRTD SILL PLATE WITH

WITH 6" EMBEDMENT, UNO

SLAB, REF PLAN

1/2" DIA ANCHORS AT 24" OC

SUB BASE, REF PLAN

ALTERNATE DIRECTION

FOUNDATION, REF PLAN

#4x4'-0" HOOK BARS AT 18" OC

WALL FRAMING, REF PLAN

ATTACH WALL SHEATHING PER

2x SOLE PLATE, REF PLAN

SLAB, REF PLAN

SUBBASE, REF PLAN

1) #4xCONT. BAR AT

THICKENED SLAB EDGE

FOUNDATION, REF PLAN

CONCRETE SLAB, REF PLAN

CONCRETE SLAB, REF PLAN

1/2" DIA x 1'-4" SMOOTH

DOWELS AT 24" OC

#4x4'-0" HOOK BARS AT 18" OC

EDGE NAILING REQUIREMENTS, REF

SHEATHING, REF PLAN

#4x4'-0" HOOK BARS AT 18" OC

EXPANSION MATERIAL, REF ARCH

B.O.F.
REF PLAN DO NOT EXCAVATE A TRENCH CLOSER THAN A 45 DEGREE ANGLE BELOW BOTTOM OF FOOTING OR FOUNDATION B.O.
TRENCH

THIS DETAIL IS TYPICAL TO THE PROJECT AND

MAY NOT BE CUT OR CALLED OUT ON PLANS

FINISH GRADE,

REF ARCH/CIVIL

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

MAXIMUM SLOPE BETWEEN 7 FOUNDATION AND TRENCH

FOOTING; REF MEP FOR PIPE SIZE AND LOCATION PROVIDE COMPRESSIBLE, WATERPROOF, RODENT-PROOF MATERIAL AROUND SLEEVE BOTTOM LAYER OF GRADE BEAM REINFORCEMENT. IF BOTTOM OF PIPE PENETRATION IS NOT AT LEAST 3" ABOVE **BOTTOM REINFORCEMENT, USE CASE 3**

2x STUD

OPENING IN WOOD STUD,

MAX OPENING IN BEARING

BORED HOLES DIA

NOTCH 40% OF STUD

WIDTH MAX

60% OF STUD WIDTH

BORED HOLES DIA

NOTCH 40% OF STUD

WIDTH MAX

60% OF STUD WIDTH

OR EXTERIOR STUD:

1-1/2" FOR 2x4 STUD

2-1/4" FOR 2x6 STUD

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

STUD FACE

5/8" MAX

STUD FACE

5/8" MAX

NON-BEARING

NON-BEARING

PARTITION

MAKE TOP AND BOTTOM

OPENING ROUNDED

GAP REQUIRED ABOVE AND

BELOW FOR DIFFERENTIAL

SHRINKAGE DIAGRAM FOR ANTICIPATED SHRINKAGE OF

WITH MEP ENGINEER FOR

CONDUIT OR HORIZONTAL

3 SHRINKAGE

BORED HOLES DIA

BORED HOLES DIA

40% OF STUD WIDTH,

60% OF STUD WIDTH

IF DOUBLE STUD

NOTCH 25% OF STUD

WIDTH MAX

ALTERNATE FOR OBLONG BORED HOLES

40% OF STUD

STUD WIDTH IF

DOUBLE STUD

NOTCH 25% OF STUD

WIDTH MAX

EXTERIOR OR

BEARING WALL

EXTERIOR OR

WIDTH, 60% OF

\$5.10 NO SCALE

STUD FACE

5/8" MIN

STUD FACE

5/8" MIN

CONDUIT OR PIPE

PLUMBING RUN

WOOD STUD PENETRATION FOR

ANTICIPATED MOVEMENT OF

MOVEMENT, REFERENCE WOOD

WOOD STRUCTURE. CONSULT



KANSAS CITY, MISSOURI 816.421.3222 www.apex-engineers.com

4

LEE'S POOL

SUMMIT

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project no. 20091 1/28/2021

design by APEX drawn by GLS struct. by GP

TYPICAL WOOD DETAILS

sheet no.

FROM FACE SHOWN DENOTES NAIL FASTENED FROM OPPOSITE FACE $\sqrt{\Psi\Psi\Psi}$ <u>2-PLY</u> (2) 2x4 / 2x6 a = 6" b = 2-1/2" NAILS: 10d COMMON (3) 2x4 / 2x6 b = 3-1/2" 2x4 NAILING (4+) 2x4 / 2x6 NAILING a = 8"

<u>3-PLY</u> <u>4-PLY (5-PLY SIM)</u> NAILS: 30d COMMON NAILS/FASTENMASTER TRUSSLOK

DENOTES NAIL FASTENED

b = 3-1/2" NAILS: FASTENMASTER TRUSSLOK OR LOGHOG

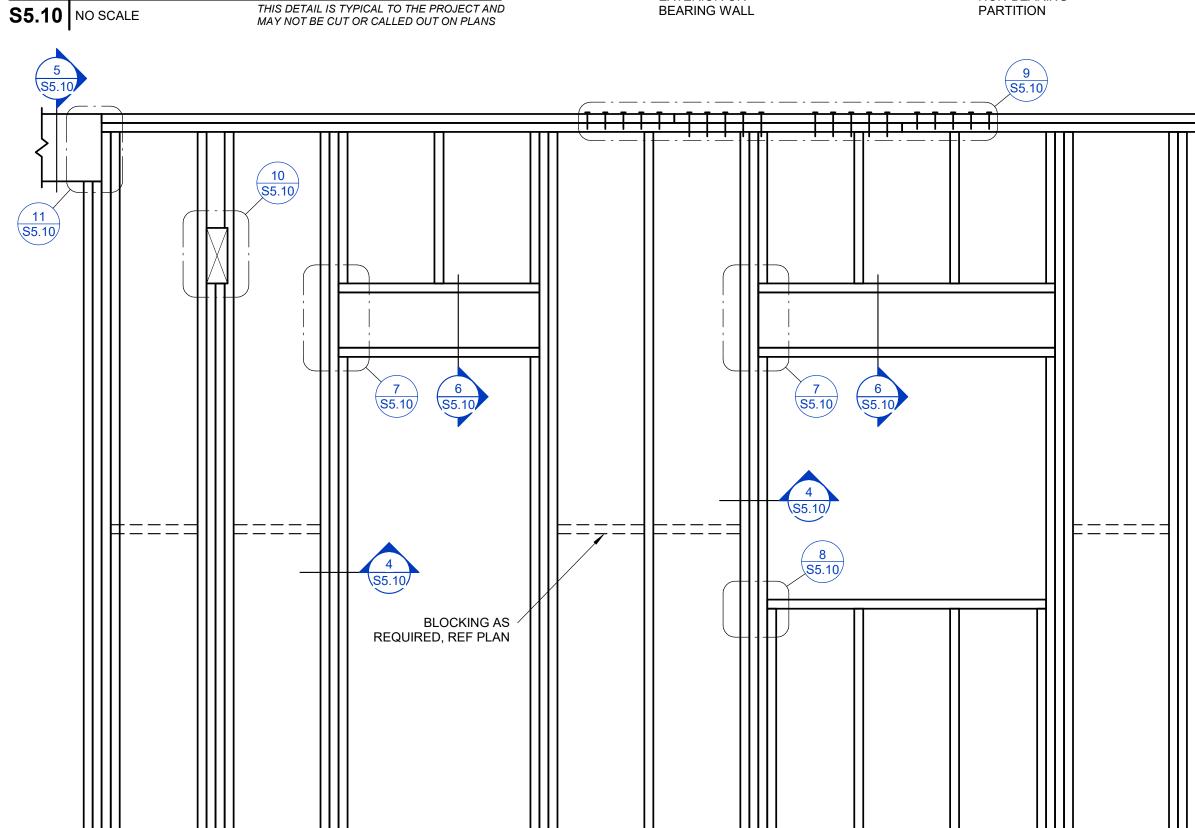
THIS DETAIL IS TYPICAL TO THE PROJECT AND

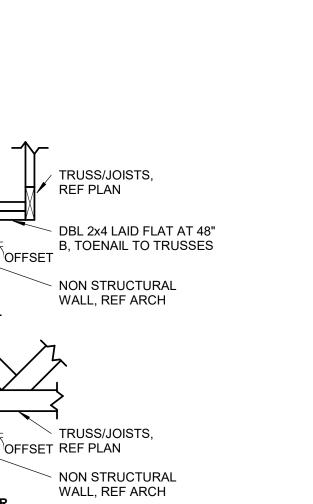
	PENE	TRAT	IONS THRU	STUD	S
WALL	LOAD BE	JDS ARING OR DR WALL OLE SIZE	NON LOAD BEARING WALL BORED HOLE SIZE	LOAD BEARING WALL NOTCH	NON-LOAD BEARING WALL NOTCH
SIZE	40%	60%	60%	25%	40%
2 x 4	1 3/8"	-	2 1/8"	7/8"	1 3/8"
(2) 2 x 4	-	2 1/8"	2 1/8"	7/8"	1 3/8"
2 x 6	2 1/4"	-	3 15/16"	1 3/8"	2 1/4"
(2) 2 x 6	-	3 5/16"	3 15/16"	1 3/8"	2 1/4"
2 x 8	2 7/8"	-	4 3/8"	1 13/16"	2 7/8"
(2) 2 x 8	-	4 3/8"	4 3/8"	1 13/16"	2 7/8"
NOTE:	TION 0000	0.40.0000			
っとと ろとし	HON 2308.	9.10, 2308.9	J.TT AND		

<u>PLATES:</u> TOP AND BOTTOM PLATE HOLE, CUT OR NOTCH THAT IS 50% OR MORE OF WIDTH 2308.9.8 IBC) IF WALL IS A SHEAR WALL IT MUST BE REPAIRED USING HARDY FRAME

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

CUTTING, NOTCHING, AND BORED





TO TRUSS/JOISTS FOR CLARITY, TRUSSES ARE SHOWN IN THIS DETAIL. HOWEVER, DETAIL APPLIES TO ALL FLOOR/ROOF FRAMING TYPES. CEILING FINISH SHALL NOT BE ATTACHED TO ROOF TRUSS WITHIN 12" OF WALL

PERPENDICULAR

TRUSS/JOISTS

12 ARCHITECTURAL WALL CONNECTION **S5.10** 3/4" = 1'-0"

1/2" MAX

1/2" MAX⁽

SIMPSON SDPW14312 AT 48" OC WITH NO

OR SIMPSON SDPW19600 AT 48" OC WITH

SIMPSON SDPW14312 AT 48" OC WITH NO

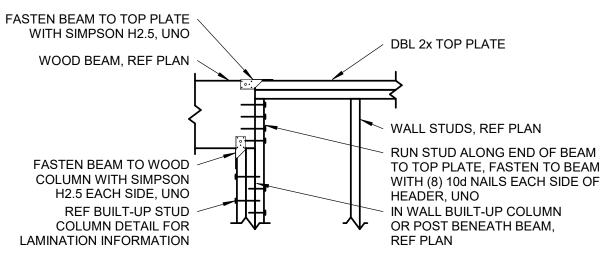
OR SIMPSON SDPW19600 AT 48" OC WITH

3/4" OFFSET AT DOUBLE TOP PLATE.

OFFSET AT SINGLE TOP PLATE

3/4" OFFSET AT DOUBLE TOP PLATE.

OFFSET AT SINGLE TOP PLATE



FLUSH WOOD BEAM AT WOOD STUD 11 WALL

\$5.10 NO SCALE MAY NOT BE CUT OR CALLED OUT ON PLANS WOOD BEAM OR TRUSS, REF PLAN WOOD BEAM OR TRUSS, REF PLAN RUN STUD ALONG SIDE OF BEAM AND NAIL WITH MIN (4) 16d NAILS TO WOOD BEAM, REF TRUSS MANUFACTURER FOR FASTENING OF WOOD TRUSS RUN STUD ALONG SIDE OF BEAM IN WALL BUILT-UP COLUMN AND NAIL WITH MIN (4) 16d NAILS OR POST BENEATH BEAM OR TRUSS, REF PLAN TO WOOD BEAM, REF TRUSS

SIDE VIEW INFORMATION TYPICAL BEAM OR TRUSS AT STUD

10 WALL **\$5.10** NO SCALE

OF WOOD TRUSS

MANUFACTURER FOR FASTENING

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

REF BUILT-UP STUD COLUMN

DETAIL FOR LAMINATION

THIS DETAIL IS TYPICAL TO THE PROJECT AND

TOP PLATE SPLICE CONNECTION, EA. SIDE OF SPLICE, TYP	4'-0" MIN OF SPL BETWEEN SPLICES TOP PL 2" TYP CONNE	COMMON EACH SIDE ICE, UNO ATE SPLICE ICTION, EA. F SPLICE, TYP
		~
SPLICE AT TOP 2x / WALL STUDS, REF FOR SIZE AND SP TOP CH		

9 TYPICAL PLATE SPLICE

\$5.10 NO SCALE

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

5 SCHEDULE **\$5.10** NO SCALE

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

ADJACENT NAILS ARE DRIVEN FROM OPPOSITE SIDES OF COLUMN 2. ALL NAILS/SCREWS SHALL PENETRATE ALL LAMINATIONS AND AT LEAST 75% OF THE OUTERMOST LAMINATION 3. REFERENCE MINIMUM FASTENER LENGTH (2) 2x - 2 5/8" (2) 1 3/4" - 3 1/16" (3) 2x - 4 1/8" (3) 1 3/4" - 4 13/16" (4) 2x - 5 5/8" (4) 1 3/4" - 6 9/16" (5) 2x - 7 1/8" (5) 1 3/4" - 8 5/16" 4 TYPICAL BUILT-UP STUD COLUMN S5.10 NO SCALE MAY NOT BE CUT OR CALLED OUT ON PLANS

DENETO ATIONO TUDU OTUDO

FIGURE 2308.9.10 IBC

MUST BE REPAIRED USING 16 GA (MIN) METAL TIE THAT IS AT LEAST 1-1/2" WIDE (SECTION SADDLE (HFS).

2 HOLES IN STUDS AND PLATES

TYPICAL WOOD FRAMED WALL

\$5.10 NO SCALE

THIS DETAIL IS TYPICAL TO THE PROJECT AND

MAY NOT BE CUT OR CALLED OUT ON PLANS

2x PLATE TOP & BOT UNO FASTEN PLATE TO EACH VERT MEMBER WITH 10d NAILS AT 16" OC UNO HEADER VERT MEMBERS REF PLAN PLYWOOD PACKOUT BETWEEN VERT MEMBERS REF MULTIPLE PLY BEAM NAILING SCHEDULE

OPENING OR GLAZING,

JAMB, REF TYP JAMB DETAIL 🔍 🕂

T.O. SILL
REF ARCH

SCHEDULE - WOOD SILL

SILL REQUIRED

(1) CONTINUOUS 2x6

(2) CONTINUOUS 2x6

CONNECTION, REF SCHEDULE

CRIPPLE STUD TO BE NAILED AT TOP.

MATCH NUMBER OF NAILS SPECIFIED

3'-5" TO 8'-0" WALL STUDS PER PLAN

OPENING WIDTH

UP TO 3'-4"

\$5.10 NO SCALE

JACK STUDS CONTINUING

FROM ABOVE AS OCCURS

LATERAL CLIP,

(6) 10d NAILS B.O. HEADER
REF ARCH

UPLIFT CLIP,

REF SCHEDULE

OPENING WIDTH d1 d2

\$5.10 NO SCALE

\$5.10 NO SCALE

REF SCHEDULE

3'-5" TO 8'-0"

8 TYPICAL SILL DETAIL

TO TOP OF CRIPPLE STUD

NUMBER OF NAILS TO MATCH SILL NAILS

REF ARCH

SILL PLATE,

PER SCHEDULE

CONNECTION

(4) 16d NAILS

SIMPSON A35

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

WALL STUD

/ 2x TOP PLATE

2x BOTTOM PLATE

LATERAL CLIP

THIS DETAIL IS TYPICAL TO THE PROJECT AND

MAY NOT BE CUT OR CALLED OUT ON PLANS

PER PLAN

WOOD HEADER

PER PLAN

KING d2 d1 JACK STUDS STUDS BELOW HEADER

SCHEDULE - WOOD JAMB

3'-5" TO 8'-0" 2 3 SIMPSON H3 EA SIDE SIMPSON A34

OF STUDS

7 TYPICAL JAMB DETAIL

2x PLATE TOP & BOT UNO

FASTEN PLATE TO EACH

VERT MEMBER WITH 10d

NAILS AT 16" OC UNO

MEMBERS, REF PLAN

AND 4'-0" OC MAX

2x PACKOUT AT EACH END

THROUGHOUT HEADER SPAN

FASTEN VERT MEMBERS TO

HEADER VERT

PACKOUT WITH (3) 10d NAILS HEADERS WITH GREATER THAN 1"
GAP BETWEEN VERT MEMBERS

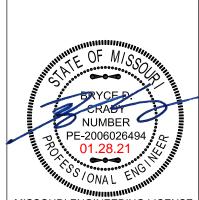
HEADERS WITH 1" AND LESS GAP BETWEEN VERT MEMBERS

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

3 - PLY 4 - PLY 2 - PLY (3) ROWS OF 16d x 3-1/2" NAILS AT 4" (2) ROWS OF 1/2' DIA. A307 THRU-BOLTS AT (3) ROWS OF 16d x 3-1/2" NAILS AT 6" 12" OC STAGGERED OC OC NAILING SHOWN APPLIES UNLESS SPECIFICALLY NOTED IN DETAILS.

, MULTIPLE PLY BEAM NAILING

SPACE NAILS EVENLY THROUGHOUT DEPTH OF BEAM.



MISSOURI ENGINEERING LICENSE: 2003004673

Bryce D. Crady
Structural Engineer KS# 18799 MO# 2003004673

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TYPICAL WOOD DETAILS

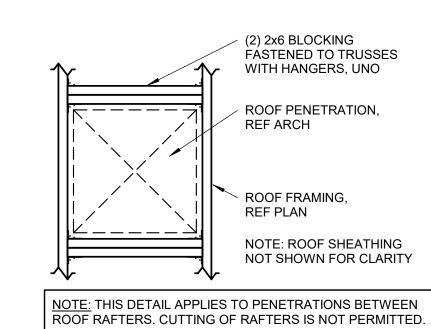
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TYPICAL WOOD TRUSS WOOD 1 DIAPHRAGM

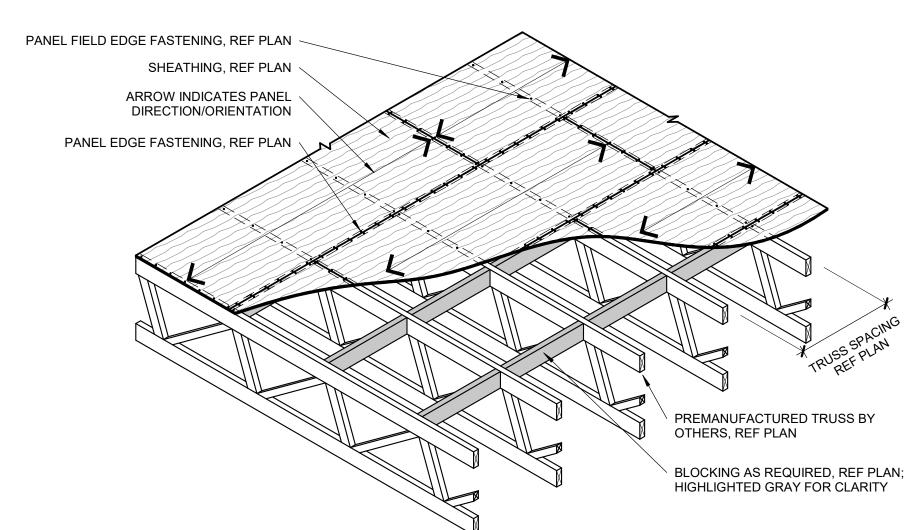
S5.11 3/8" = 1'-0"

INSIDE CORNER WALL SHEATHING, REF PLAN ATTACH WALL SHEATHING PER EDGE NAILING REQUIREMENTS, REF PLAN WALL FRAMING, REF PLAN 4 TYPICAL THREE STUD CORNER THIS DETAIL IS TYPICAL TO THE PROJECT AND

\$5.11 NO SCALE MAY NOT BE CUT OR CALLED OUT ON PLANS



3 TYPICAL ROOF PENETRATION DETAIL 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 TUMBLED) 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.

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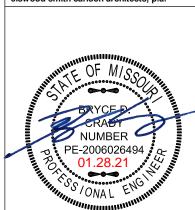


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4

SUMMIT POOL LEE'S

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> Bryce D. Crady
> Structural Engineer KS# 18799 MO# 2003004673

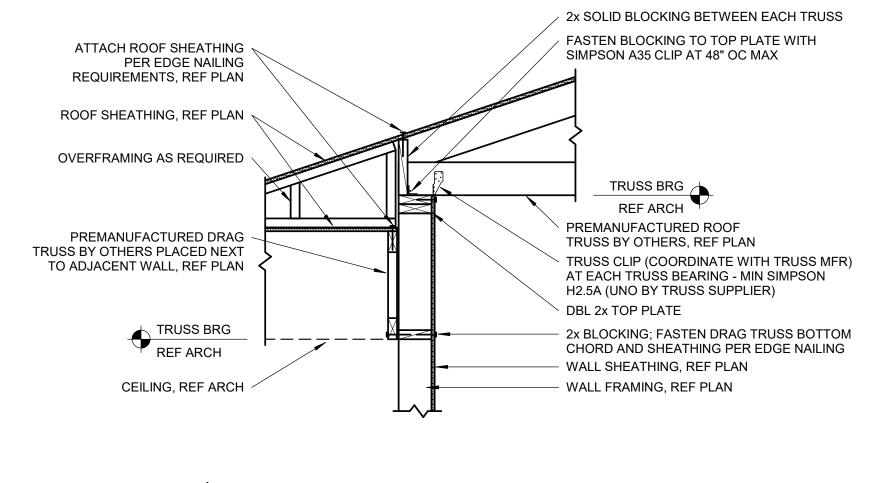
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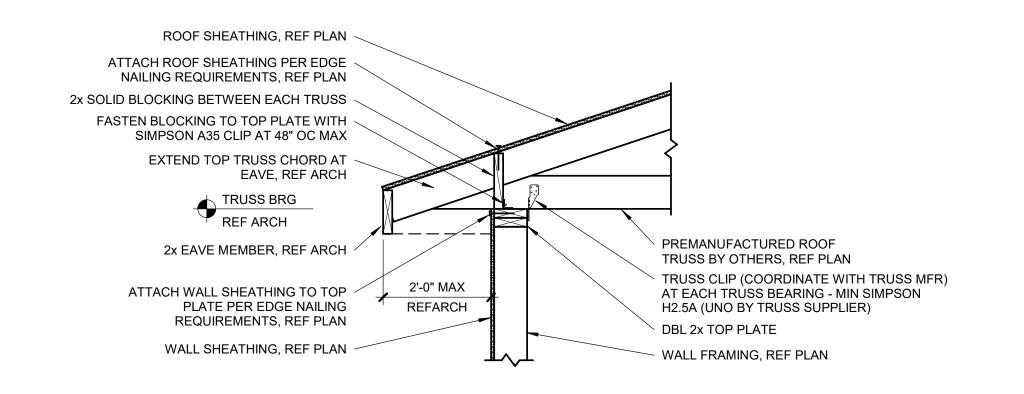
revised design by APEX drawn by GLS

struct. by GP **TYPICAL WOOD DETAILS**

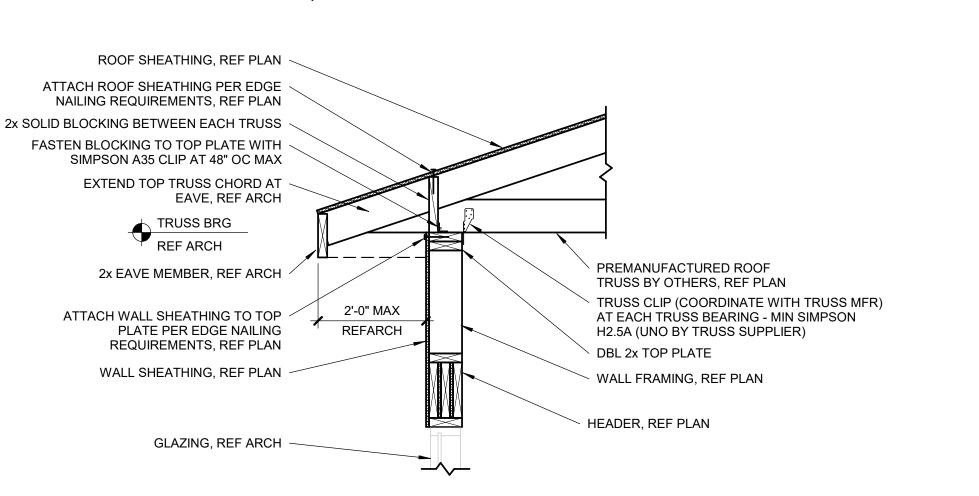
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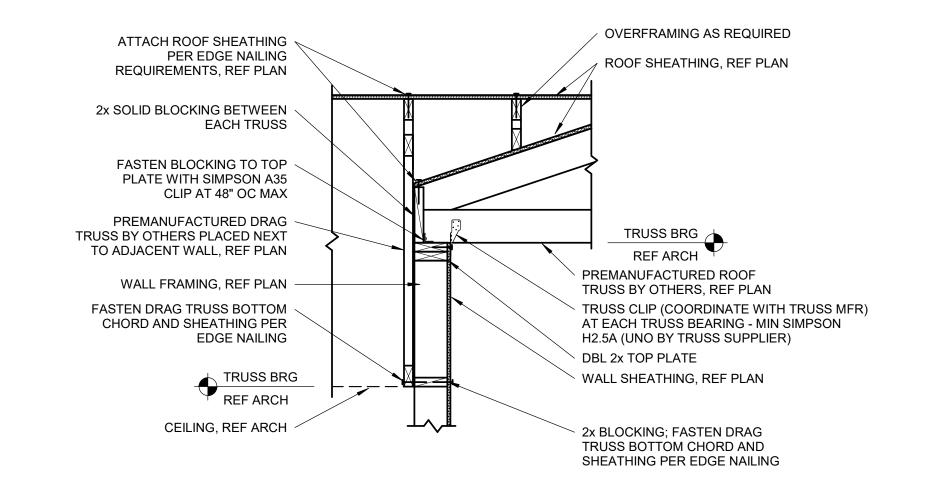




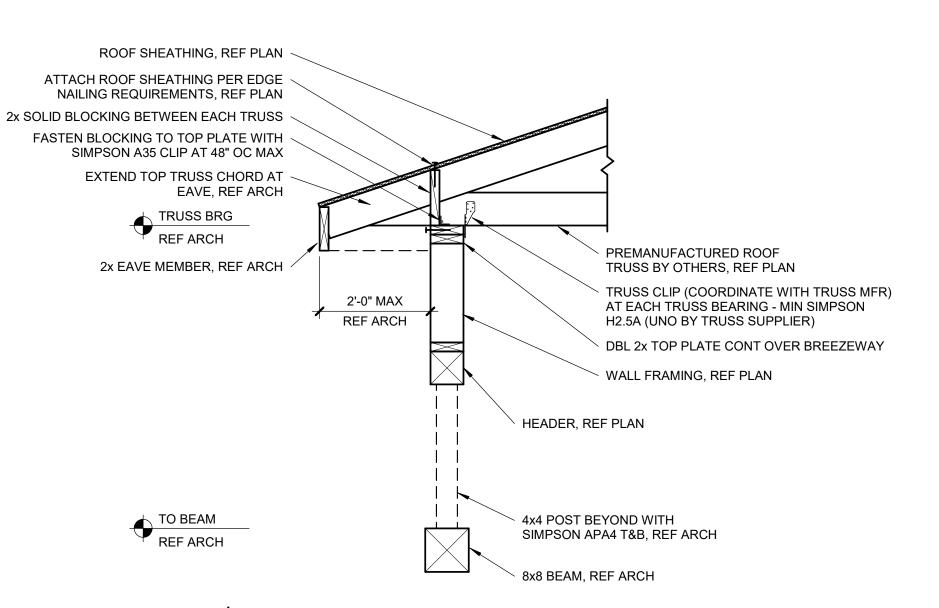




SLOPED ROOF TRUSS BEARING AT 1 HEADER **\$5.20** 3/4" = 1'-0"



5 TRUSS CHANGE DIRECTION **S5.20** 3/4" = 1'-0"



4 TRUSS BEARING AT BREEZEWAY BEAM **\$5.20** 3/4" = 1'-0"

CONTRACT DOCUMENTS

ALL CONTRACT DOCUMENTS INCLUDING DRAWINGS, ALTERNATES, ADDENDA AND MODIFICATIONS PRECEDING THIS SPECIFICATION DIVISION ARE APPLICABLE TO MECHANICAL CONTRACTOR AND HIS SUB-CONTRACTORS, AND MATERIAL SUPPLIERS.

SPECIFICATION FORM AND DEFINITIONS

THESE SPECIFICATIONS ARE ABBREVIATED FORM AND CONTAIN INCOMPLETE SENTENCES. OMISSIONS OF WORDS OR PHRASES SUCH AS "THE CONTRACTOR SHALL", "SHALL BE", "AS NOTED ON THE DRAWINGS", "ACCORDING TO THE DRAWINGS", "A", "AN", "THE" AND "ALL" ARE INTENTIONAL. OMITTED WORDS AND PHRASES SHALL BE SUPPLIED BY INFERENCE.

ENGINEER WHEREVER USED IN THESE SPECIFICATIONS, SHALL MEAN LATIMER, SOMMERS & ASSOCIATES, P.A., 3639 SW SUMMERFIELD DRIVE, SUITE A, TOPEKA, KANSAS 66614, PHONE 785-233-3232.

CONTRACTOR, WHEREVER USED IN THESE SPECIFICATIONS. SHALL MEAN ANY TRADE CONTRACTOR THAT ENTERS INTO CONTRACT WITH THE OWNER TO PERFORM THIS SECTION OF

WHEN A WORD, SUCH AS "PROPER", "SATISFACTORY" "EQUIVALENT", AND "AS DIRECTED", IS USED, IT REQUIRES ENGINEER'S REVIEW. "PROVIDE" MEANS FURNISH AND INSTALL.

QUALIFICATIONS

THE CONTRACTOR(S) RESPONSIBLE FOR WORK UNDER THIS SECTION SHALL HAVE COMPLETED A JOB OF SIMILAR SCOPE AND MAGNITUDE WITHIN THE LAST 3 YEARS AND BE ABLE TO DOCUMENT SUCH WORK UPON REQUEST. THE CONTRACTOR(S) SHALL EMPLOY AN EXPERIENCED, COMPETENT AND ADEQUATE WORK FORCE LICENSED IN THEIR SPECIFIC TRADE AND PROPERLY SUPERVISED AT ALL TIMES. MECHANICAL CONTRACTING SHALL BE THE COMPANY'S PRIMARY NATURE OF BUSINESS. UNLICENSED WORKERS AND GENERAL LABORERS SHALL BE ADEQUATELY SUPERVISED TO INSURE COMPETENT AND QUALITY WORK AND WORKMANSHIP REQUIRED BY THIS CONTRACT AND ALL OTHER REGULATIONS, CODES AND PRACTICES. AT ALL TIMES THE CONTRACTOR(S) SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES, PRACTICES AND REGULATIONS. CONTRACTOR MAY BE REQUIRED TO SUBMIT A STATEMENT OF QUALIFICATIONS. PERTAINING TO THE TYPE OF WORK TO BE PERFORMED, UPON REQUEST BEFORE ANY FINAL APPROVAL AND SELECTION. FAILURE TO BE ABLE TO COMPLY WITH THESE REQUIREMENTS IS SUITABLE REASON FOR REJECTION OF A BID WHETHER ACTING AS A PRIME OR SUBCONTRACTOR.

LOCAL CONDITIONS

VISIT SITE AND DETERMINE EXISTING LOCAL CONDITIONS AFFECTING WORK IN CONTRACT. FAILURE TO DETERMINE SITE CONDITIONS OR NATURE OF EXISTING OR NEW CONSTRUCTION WILL NOT BE CONSIDERED A BASIS FOR GRANTING ADDITIONAL COMPENSATION.

CONTRACT CHANGES

CHANGES OR DEVIATIONS FROM CONTRACT, INCLUDING THOSE FOR EXTRA OR ADDITIONAL WORK MUST BE SUBMITTED IN WRITING FOR REVIEW OF ARCHITECT-ENGINEER. NO VERBAL ORDERS WILL BE RECOGNIZED.

LOCATIONS AND INTERFERENCES

A. LOCATIONS OF EQUIPMENT, PIPING AND OTHER MECHANICAL WORK IS INDICATED DIAGRAMMATICALLY BY MECHANICAL DRAWINGS. DETERMINE EXACT LOCATIONS ON JOB, SUBJECT TO STRUCTURAL CONDITIONS, WORK OF OTHER CONTRACTORS, ACCESS REQUIREMENTS FOR INSTALLATION AND MAINTENANCE TO APPROVAL OF ARCHITECT-ENGINEER.

EXTENT OF CONTRACT WORK AND CODES - MECHANICAL

PROVIDE MECHANICAL SYSTEMS INDICATED ON DRAWINGS. SPECIFIED OR REASONABLY IMPLIED. PROVIDE EVERY DEVICE AND ACCESSORY NECESSARY FOR PROPER OPERATION AND COMPLETION OF MECHANICAL SYSTEMS. IN NO CASE WILL CLAIMS FOR "EXTRA WORK" BE ALLOWED FOR WORK ABOUT WHICH CONTRACTOR COULD HAVE BEEN INFORMED BEFORE BIDS WERE TAKEN.

DRAWINGS AND SPECIFICATIONS INDICATE MINIMUM CONSTRUCTION STANDARD. SHOULD ANY WORK INDICATED BE SUB-STANDARD TO ANY ORDINANCES, LAWS, CODES, RULES OR REGULATIONS BEARING ON WORK, CONTRACTOR SHALL PROMPTLY NOTIFY ARCHITECT-ENGINEER IN WRITING BEFORE PROCEEDING WITH WORK SO THAT NECESSARY CHANGES CAN BE MADE. HOWEVER, IF CONTRACTOR PROCEEDS WITH WORK KNOWING IT TO BE CONTRARY TO ANY ORDINANCES, LAWS, RULES, AND REGULATIONS, CONTRACTOR SHALL THEREBY HAVE ASSUMED FULL RESPONSIBILITY FOR AND SHALL BEAR ALL COSTS REQUIRED TO CORRECT NON-COMPLYING WORK.

PIPE HANGERS AND SUPPORTS

PROVIDE AND BE RESPONSIBLE FOR LOCATIONS OF PIPING HANGERS, SUPPORTS AND INSERTS, ETC., REQUIRED FOR INSTALLATION OF PIPING DESIGN OF HANGERS AND SUPPORTS SHALL CONFORM TO CURRENT ISSUE OF MANUFACTURERS STANDARDIZATION SOCIETY SPECIFICATION (MSS) SP-58.

PIPE HANGERS SHALL BE CAPABLE OF SUPPORTING PIPING IN ALL CONDITIONS OF OPERATION. THEY SHALL ALLOW FREE EXPANSION AND CONTRACTION OF PIPING, AND PREVENT EXCESSIVE STRESS RESULTING FROM TRANSFERRED WEIGHT BEING INDUCED INTO PIPE OR CONNECTED EQUIPMENT. SUPPORT HORIZONTAL OR VERTICAL PIPES AT LOCATIONS OF LEAST VERTICAL MOVEMENT.

PROVIDE SUFFICIENT HANGERS TO ADEQUATELY SUPPORT PIPING SYSTEM AT CHANGES IN PIPING DIRECTION AND AT CONCENTRATED LOADS. HANGERS SHALL PROVIDE FOR VERTICAL ADJUSTMENT TO MAINTAIN PITCH REQUIRED FOR PROPER DRAINAGE, AND FOR LONGITUDINAL TRAVEL DUE TO EXPANSION AND CONTRACTION OF PIPING.

PIPING AND FITTINGS

PIPING AND FITTINGS USED THROUGHOUT PROJECT SHALL BE AS INDICATED IN SCHEDULE ON PLANS. PIPING SHALL BE PLAINLY MARKED WITH MANUFACTURERS NAME AND WEIGHT. ALL MATERIALS LISTED MAY NOT BE REQUIRED ON THIS PROJECT. SEE PIPING MATERIAL SCHEDULE AT END OF THIS SECTION FOR MATERIALS TO BE USED FOR EACH PIPING SYSTEM. PIPING MATERIALS SHALL BE AS FOLLOWS:

- 1)CONDENSATE DRAIN SCH 40 PVC
- 2)DOM. WATER <2" PEX/CPVC 3)DWV BELOW GRADE - SCH 40 SOLID PVC
- 4)DWV ABOVE GRADE SCH 40 PVC
- 5)GAS ABOVE GRADE SCH 40 BLACK STEEL
- 6)GAS BELOW GRADE POLYPROPYLENE 7)REFRIGERANT - COPPER/SILVER SOLDER

INSTALL NECESSARY VALVES WITHIN PIPING SYSTEMS TO PROVIDE REQUIRED FLOW CONTROL AND TO ALLOW ISOLATION FOR INSPECTION, MAINTENANCE AND REPAIR OF EACH PIECE OF EQUIPMENT OR FIXTURE, AND ON EACH MAIN AND BRANCH SERVICE LOOP.

VALVES INSTALLED IN PIPING SYSTEMS SHALL BE AS SCHEDULED ON PLANS AND SHALL BE COMPATIBLE WITH SYSTEM MAXIMUM TEST PRESSURE, PIPE MATERIALS, PIPE JOINING METHOD, AND FLUID OR GAS CONVEYED IN SYSTEM.

SCHEDULE STOP CHECK BALANCE 1) DOM. WATER <2.5" BRONZE BALL

BRONZE SWING

2)GAS

PROVIDE UNIONS IN EACH LINE PRECEDING CONNECTIONS TO EQUIPMENT OR VALVES REQUIRING MAINTENANCE. PROVIDE STOCKHAM BRONZE TO IRON GROUND SEAT UNIONS MATERIAL AND PRESSURE RATING REQUIRED BY PIPING SYSTEM.

AUTO FLOW

BRONZE/IRON PLUG

WHERE PIPING SYSTEMS OF DISSIMILAR MATERIALS ARE JOINTED TOGETHER PROVIDE PROPER INSULATING UNION AS SPECIFIED UNDER THIS SPECIFICATION.

STRAINERS

INSTALL STRAINERS WHERE SHOWN ON PLANS. STRAINERS SHALL BE SAME SIZE AS PIPING. PROVIDE STRAINERS WITH PROPER ISOLATION AND BLOW DOWN VALVES TO ALLOW BASKET REMOVAL FOR CLEANING. STRAINER SHALL BE SELF CLEANING WITH SCREWED AND GASKETED CAPS AND SCREWED CONNECTIONS.

PIPE INSULATION

PROVIDE NECESSARY MATERIALS AND ACCESSORIES FOR INSTALLATION OF INSULATION MECHANICAL SYSTEMS. PROVIDE INSULATION MATERIALS MANUFACTURED BY ARMSTRONG INDUSTRIES, DOW CHEMICAL, SCHULLER.

SCHEDULE

1) REFRIGERANT - 3/4" ARMAFLEX DUCTWORK INSULATION

A. PROVIDE NECESSARY MATERIALS AND ACCESSORIES FOR INSTALLATION OF INTERIOR AND EXTERIOR DUCTWORK INSULATION AS SPECIFIED AND/OR DETAILED ON DRAWINGS. PROVIDE INSULATION MATERIALS MANUFACTURED BY SCHULLER, KNAUF FIBERGLASS, CERTAIN/TEED, OR OWENS-CORNING FIBERGLASS.

C. PROVIDE ROUND SHEET METAL DUCTWORK WITH EXTERIOR THERMAL INSULATION OF TYPE AND THICKNESS LISTED IN INSULATION SCHEDULE. APPLY INSULATION WITH JOINTS TIGHTLY BUTTED TOGETHER WITH LONGITUDINAL AND END JOINT STRIPS SEALED WITH VAPOR BARRIER ADHESIVE. INSULATE FITTINGS WITH INSULATION THICKNESS EQUAL TO ADJOINING INSULATION WITH COVER OVERLAPPING 2" ONTO ADJACENT COVERING.

D. DUCT INSULATION MATERIALS BY TYPE SHALL BE AS

TYPE 2-DEW: EXTERNAL THERMAL INSULATION SHALL BE 1.0 LB. DENSITY STANDARD DUCT INSULATION TYPE IV WITH FOIL-SCRIM-CRAFT FACING AND .27 BTUH THERMAL CONDUCTIVITY AT 75 DEGREES MEAN TEMPERATURE.

E. SPECIFIC INSULATION MATERIALS AND INSTALLATION

METHODS FOR DUCTWORK SYSTEMS SHALL BE AS FOLLOWS:

INSULATION DUCTWORK SYSTEM

TYPE THICKNESS ROUND/RECTANGULAR SUPPLY 2-DEW 1-1/2"

NONE

DUCTWORK

EXHAUST

A. CONSTRUCT DUCTWORK AS DETAILED ON DRAWINGS AND AS DETAILED IN THE LATEST EDITION OF THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S ASSOCIATION (SMACNA) DUCT

B. CONSTRUCT AND INSTALL DUCTWORK TO BE COMPLETELY FREE FROM VIBRATION UNDER ALL CONDITIONS OF OPERATION. SUPPORT AND SECURELY ANCHOR DUCTWORK AND EQUIPMENT FROM STRUCTURAL FRAMING OF BUILDING. PROVIDE SUITABLE INTERMEDIATE METAL FRAMING WHERE REQUIRED BETWEEN BUILDING STRUCTURAL FRAMING.

C. SEALING OF DUCTWORK SHALL BE WITH CLASS 'C' CAULK.

GRILLES, REGISTERS AND DIFFUSERS

A. PROVIDE GRILLES, REGISTERS AND DIFFUSERS AS SHOWN ON THE DRAWINGS AND HEREINAFTER SPECIFIED. SET ALL UNITS WITH RUBBER GASKETS FOR AIR TIGHT CONNECTION WITH MOUNTING SURFACE, SEE DRAWINGS FOR TYPES, SIZES, AIR FLOW AND QUANTITY.

B. INSTALL ALL REGISTERS WITH CURVE OF LOUVER AWAY FROM LINE OF SIGHT. UNLESS NOTED OTHERWISE, PROVIDE DUCT MOUNTED DIFFUSERS AND REGISTERS WITH STANDARD MARGINS. FINISH SHALL BE OFF WHITE WHEN MOUNTED IN CEILING, PRIME COAT WHEN MOUNTED ON WALL FINISH.

SPLIT SYSTEMS - AIR HANDLERS

A. AIR HANDLING UNITS SHALL BE COMPLETELY FACTORY ASSEMBLED INCLUDING COIL, CONDENSATE DRAIN PAN, FAN MOTOR(S), FILTERS AND CONTROLS IN AN INSULATED CASING THAT CAN BE APPLIED IN EITHER VERTICAL OR HORIZONTAL CONFIGURATION. UNITS SHALL BE RATED AND TESTED IN ACCORDANCE WITH ARI STANDARD 210/240, 340/360. UNITS SHALL BE UL LISTED AND LABELED IN ACCORDANCE WITH UL 465/1995 FOR INDOOR BLOWER COIL UNITS.

B. UNIT CASING SHALL BE CONSTRUCTED OF ZINC COATED, HEAVY GAUGE, GALVANIZED STEEL. CASING SHALL BE COMPLETELY INSULATED WITH CLEANABLE, FOIL-FACED, FIRE-RETARDANT, PERMANENT, ODORLESS GLASS FIBER MATERIAL. ALL INSULATION EDGES SHALL BE EITHER CAPTURED OR SEALED. KNOCKOUTS SHALL BE PROVIDED FOR UNIT ELECTRICAL POWER AND REFRIGERANT PIPING CONNECTIONS. CAPTIVE SCREWS SHALL BE STANDARD ON ALL ACCESS PANELS.

C. EVAPORATOR COIL TO HAVE CONFIGURED ALUMINUM FIN SURFACE, MECHANICALLY BONDED TO 3/8" INTERNALLY ENHANCED COPPER TUBING AND FACTORY PRESSURE AND LEAK TESTED AT 365 PSIG. COIL IS ARRANGED FOR DRAW-THROUGH AIRFLOW AND SHALL PROVIDE A DOUBLE SLOPED CONDENSATE DRAIN PAN CONSTRUCTED OF PVC PLASTIC.

D. EVAPORATOR FAN SHALL BE DOUBLE INLET, DOUBLE WIDTH, FORWARD CURVED, DIRECT DRIVE CENTRIFUGAL-TYPE FAN(S). THERMAL OVERLOAD PROTECTION SHALL BE STANDARD ON MOTOR. FAN AND MOTOR BEARINGS SHALL BE PERMANENTLY LUBRICATED.

E. MAGNETIC EVAPORATOR FAN CONTACTOR, LOW VOLTAGE TERMINAL STRIP, CHECK VALVE(S), AND SINGLE POINT POWER ENTRY AND DISCONNECT SHALL BE INCLUDED. ALL CONTROLS SHALL BE FACTORY-INSTALLED AND WIRED. EVAPORATOR DEFROST CONTROL SHALL BE INCLUDED TO PREVENT COMPRESSOR SLUGGING BY TEMPORARILY INTERRUPTING COMPRESSOR OPERATION WHEN LOW EVAPORATOR COIL TEMPERATURES ARE ENCOUNTERED.

F. FILTERS SHALL BE ONE INCH MERV-8 THROWAWAY. FILTERS SHALL BE ACCESSIBLE FROM THE FRONT OF THE UNIT. G. PROVIDE MANUAL CHANGEOVER 7-DAY (NOT 5/2) PROGRAMMABLE HEATING/COOLING THERMOSTAT.

SPLIT SYSTEMS - OUTDOOR UNITS CASING SHALL BE GALVANIZED STEEL WITH WEATHER RESISTANT POWDER PAINT.

REFRIGERANT CONTROLS TO INCLUDE CONDENSER FAN AND COMPRESSOR CONTACTOR AND CONTROL SYSTEM. COMPRESSOR OVERLOAD PROTECTION, AND SERVICE VALVES ARE TO BE PROVIDED.

HERMETIC COMPRESSOR TO HAVE OVER TEMPERATURE/PRESSURE PROTECTION, EPOXY-DIPPED WINDINGS. A 5 YEAR LIMITED COMPRESSOR WARRANTY TO BE INCLUDED.

CONDENSER COIL TO BE COPPER TUBES, ALUMINUM FINS WITH BRAZED JOINTS PROTECTED BY LOUVERED PANELS. PROVIDE ALL ACCESSORIES FOR PROPER SYSTEM OPERATION TAKING INTO CONSIDERATION REFRIGERANT PIPE LENGTH, EXPOSURE AND POSITION FROM AHU TO ACCOUNT FOR EACH SPECIFIC UNIT INSTALLATION. REVIEW DRAWINGS WITH SUPPLIER.

F AIR HANDLERS TO BE PIPED TO APPROPRIATE DRAIN, MOUNTED WITH ACCESS FOR SERVICE, WITH FLEXIBLE DUCT CONNECTIONS. OUTDOOR UNITS SHALL BE MOUNTED ON MONOLITHIC CONCRETE PADS. STRAP DOWN CONDUITS AND SECURE DX PIPING TO WALL OR SLAB WHERE OVER 3 FEET IN LENGTH. INSTALL WITH CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS.

ELECTRICAL SPECIFICATIONS

ELECTRICAL

EXTENT OF CONTRACT WORK AND CODES

PROVIDE ELECTRICAL SYSTEMS INDICATED ON DRAWINGS, SPECIFIED OR REASONABLY IMPLIED. PROVIDE EVERY DEVICE AND ACCESSORY NECESSARY FOR PROPER OPERATION AND COMPLETION OF ELECTRICAL SYSTEMS. IN NO CASE WILL CLAIMS FOR "EXTRA WORK" BE ALLOWED FOR WORK ABOUT WHICH ELECTRICAL CONTRACTOR COULD HAVE BEEN INFORMED BEFORE BIDS WERE TAKEN.

DRAWINGS AND SPECIFICATIONS INDICATE MINIMUM CONSTRUCTION STANDARD, SHOULD ANY WORK INDICATED BE SUB-STANDARD TO ANY ORDINANCES, LAWS, CODES, RULES OR REGULATIONS BEARING ON WORK, CONTRACTOR SHALL PROMPTLY NOTIFY ARCHITECT/ENGINEER IN WRITING BEFORE PROCEEDING WITH WORK SO THAT NECESSARY CHANGES CAN E MADE. HOWEVER, IF ELECTRICAL CONTRACTOR PROCEEDS WITH WORK KNOWING IT TO BE CONTRARY TO ANY ORDINANCES, LAWS, RULES, AND REGULATIONS HE SHALL THEREBY HAVE ASSUMED FULL RESPONSIBILITY FOR AND SHALL BEAR ALL COSTS REQUIRED TO CORRECT NON-COMPLYING

BASIC MATERIALS AND METHODS

IDENTIFICATION OF WIRING

ALL WIRES FOR BRANCH CIRCUIT WORK SHALL BE COLOR CODED. IDENTIFY THE SAME PHASE CONDUCTOR OF SAME VOLTAGE SYSTEM WITH SAME COLOR THROUGHOUT.

ALL BRANCH CIRCUITS SHALL HAVE DEDICATED HOT, NEUTRAL, GROUND. COMMON NEUTRALS SHALL NOT BE UTILIZED. ONE GROUNDING CONDUCTOR CAN BE PROVIDED FOR A MAXIMUM OF (3) SINGLE PHASE CIRCUITS, EACH ON A SEPARATE PANEL PHASE IN A COMMON CONDUIT.

CONDUCTORS

PROVIDE CODE GRADE SOFT ANNEALED COPPER CONDUCTORS WITH SPECIFIED COLORED INSULATION TO CONFORM WITH COLOR CODING SPECIFIED. COMPACT ALUMINUM MAY BE USED FOR FEEDERS LARGER THAN #2 AS PER CODE AND LOCAL JURISDICTION. PROVIDE CONDUCTORS NO. 8 GAUGE AND LARGER STRANDED AND CONDUCTORS NO. 10 GAUGE AND SMALLER SHALL BE SOLID.

USE NO CONDUCTORS SMALLER THAN NO. 12 GAUGE UNLESS SPECIFICALLY CALLED FOR OR APPROVED BY FNGINFER.

PROVIDE CONDUCTORS FOR LISTED APPLICATIONS AS

LIGHTING AND RECEPTACLE CIRCUITS: TYPE THWN, OR THWN/THHN 600 VOLT, 75 DEGREES C (1670F) HERMOPLASTIC INSULATED BUILDING CONDUCTOR OR BETTER. TYPE NM MAY BE USED WHERE ALLOWED BY LOCAL CODE AND THE NEC. NO EXTERIOR CIRCUITS MAY BE TYPE NM.

LIGHTING AND RECEPTACLES CIRCUITS WITH NO. 8 OR ARGER CONDUCTORS, MOTOR CIRCUITS, POWER AND FEEDER CIRCUITS AND BUILDING SERVICE FEEDERS: TYPE THHN/THWN 500 VOLTS, 75 DEGREES C (1670F) THERMOPLASTIC INSULATED BUILDING CONDUCTOR.

CONDUCTOR INSTALLATION

RUN CONDUCTORS IN CONDUIT CONTINUOUS BETWEEN OUTLETS AND JUNCTION BOXES WITH NO SPLICES OR TAPS PULLED INTO CONDUITS.

NEATLY ROUTE, TIE AND SUPPORT CONDUCTORS FERMINATING AT SWITCHBOARDS, MOTOR CONTROL CENTERS. PANELBOARDS, SOUND EQUIPMENT, ETC., WITH THOMAS & BETTS TY-RAP CABLE TIES AND CLAMPS OR EQUIVALENT BY LECTROVERT OR PANDUIT.

GROUNDING

SUPPLEMENT GROUNDED NEUTRAL OF SECONDARY DISTRIBUTION SYSTEM WITH EQUIPMENT GROUNDING SYSTEM, INSTALLED SO THAT METALLIC STRUCTURES, ENCLOSURES, RACEWAYS, JUNCTION BOXES, OUTLET BOXES, CABINETS, MACHINE FRAMES, PORTABLE EQUIPMENT AND OTHER CONDUCTIVE ITEMS OPERATE CONTINUOUSLY AT GROUND POTENTIAL AND PROVIDE LOW IMPEDANCE PATH FOR GROUND FAULT CURRENTS.

SYSTEM SHALL COMPLY WITH NATIONAL ELECTRICAL CODE AND AS SPECIFIED.

GROUNDING CONNECTIONS

EQUIPMENT GROUNDING CONDUCTORS FOR BRANCH CIRCUIT HOME RUNS SHOWN ON THE DRAWINGS SHALL INDICATE AN INDIVIDUAL AND SEPARATE GROUND CONDUCTOR FOR THAT BRANCH CIRCUIT WHICH SHALL BE TERMINATED AT THE BRANCH CIRCUIT PANELBOARD, SWITCHBOARD, OR OTHER DISTRIBUTION EQUIPMENT. GROUNDING CONDUCTORS SIZED ACCORDING TO THE SIZE OF THE OVERCURRENT DEVICE AND NEC TABLE 250-95 SHALL BE ALLOWED.

REQUIRED EQUIPMENT GROUNDING CONDUCTORS AND STRAPS SHALL BE SIZED IN COMPLIANCE WITH N.E.C. TABLE 250-95. EQUIPMENT GROUNDING CONDUCTORS SHALL BE PROVIDED WITH GREEN TYPE TW 600 VOLT INSULATION. RELATED FEEDER AND BRANCH CIRCUIT GROUNDING CONDUCTORS SHALL BE CONNECTED TO GROUND BUS WITH APPROVED PRESSURE CONNECTORS.

PROVIDE LOW VOLTAGE DISTRIBUTION SYSTEM WITH A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR FOR EACH SINGLE-PHASE FEEDER. SINGLE PHASE 120 VOLT BRANCH CIRCUITS FOR LIGHTING AND POWER SHALL CONSIST OF PHASE AND NEUTRAL CONDUCTORS AND A GREEN GROUND CONDUCTOR INSTALLED IN COMMON METALLIC CONDUIT WHICH SHALL SERVE AS GROUNDING CONDUCTOR. PROVIDE FLEXIBLE METALLIC CONDUIT UTILIZED IN CONJUNCTION WITH ABOVE SINGLE PHASE BRANCH CIRCUITS WITH SUITABLE GREEN INSULATED GROUNDING CONDUCTORS CONNECTED TO APPROVED GROUNDING TERMINALS AT EACH END OF FLEXIBLE CONDUIT. SINGLE PHASE BRANCH CIRCUIT INSTALLED IN NONMETALLIC CONDUITS SHALL BE PROVIDED WITH SEPARATE GROUNDING CONDUCTOR. INSTALL GROUNDING CONDUCTOR IN COMMON CONDUIT WITH RELATED PHASE AND/OR NEUTRAL CONDUCTORS. WHERE PARALLEL FEEDERS ARE INSTALLED IN MORE THAN ONE RACEWAY, EACH RACEWAY SHALL HAVE A GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.

D. GROUNDING CONDUCTORS SHALL BE AS SHOWN ON PLANS OR IF NOT SPECIFICALLY SHOWN SHALL BE NO SMALLER THAN THAT REQUIRED BY THE NEC.

CONDUITS CONDUIT

CONDUIT OR GALVANIZED RIGID STEEL TUBING: (EMT)

CONDUIT SHALL BE GALVANIZED STEEL ELECTRICAL METALLIC TUBING AND BEAR AND UNDERWRITERS' LABORATORY LABEL. CONDUIT SHALL CONFORM TO FEDERAL SPECIFICATION WWC-563 AND ANSI SPECIFICATION C80.3.

B. MC CABLE AND FLEXIBLE METAL CONDUIT: WHERE ALLOWABLE BY CODE, MC CABLE AND FLEXIBLE METAL CONDUIT (FMC) WITH CONDUCTORS AND GROUND MAY BE USED ONLY IN THE FORM OF 8' WHIPS (OR LESS) FOR BRANCH CIRCUIT DROPS FROM JBS TO INDIVIDUAL LIGHTING FIXTURES, VAV BOXES, SMALL EXHAUST FANS, AND OTHER FRACTIONAL HP EQUIPMENT. IN ALL CASES, THE FLEXIBLE CONDUIT AND/OR MC CABLE SHALL CONTAIN A DEDICATED EQUIPMENT GROUNDING CONDUCTOR.

C. RIGID SCH. 40 PVC MAY BE USED BELOW SLAB/GRADE.

CONDUIT FITTINGS

A. EMT CONDUIT: COUPLINGS AND BOX CONNECTORS SHALL BE DIE CAST SET SCREW TYPE. UNILETS SHALL BE MALLEABLE IRON WITH BLANK COVER.

B. FLEXIBLE CONDUIT: CONNECTORS SHALL BE THREADED TYPE IRON WITH INSULATED THROAT.

C. PROVIDE GROUNDING BUSHINGS WHERE FEEDER CONDUIT ATTACHES TO PANELBOARD BACKBOX. BOND GROUNDING BUSHING TO GROUND BUS.

CONDUIT INSTALLATION

A. ALIGN CONDUIT TERMINATIONS AT PANELBOARDS. SWITCHBOARDS, MOTOR CONTROL EQUIPMENT, JUNCTION BOXES, ETC. AND INSTALL TRUE AND PLUMB. PROVIDE SUPPORTS OR TEMPLATES TO HOLD CONDUIT ALIGNMENT DURING ROUGH-IN STAGE OF WORK.

B. INSTALL CONDUIT CONTINUOUS BETWEEN OUTLET BOXES, CABINETS AND EQUIPMENT. MAKE BENDS SMOOTH AND EVEN WITHOUT FLATTENING OR FLAKING CONDUIT. RADIUS OF BENDS SHALL NOT BE SHORTER THAN RADIUS LISTED IN THE NEC. LONG RADIUS ELBOWS MAY BE USED WHERE NECESSARY.

C. INSTALL NO CONDUITS OR OTHER RACEWAYS SIZED SMALLER THAN PERMITTED IN APPLICABLE NEC TABLES. WHERE CONDUIT SIZES SHOWN ON DRAWINGS ARE SMALLER THAN PERMITTED BY CODE, CONTRACTOR SHALL INCLUDE COST FOR PROPER SIZE CONDUIT IN HIS BASE BID. IN NO CASE REDUCE CONDUIT SIZES INDICATED ON DRAWINGS OR SPECIFIED WITHOUT WRITTEN APPROVAL OF ENGINEER.

OUTLET BOXES

PROVIDE ELECTRICAL SERVICE OUTLETS, INCLUDING PLUG RECEPTACLES, LAMP RECEPTACLES, LIGHTING FIXTURES AND SWITCHES WITH STEEL CITY, RACO, OR EQUIVALENT FOUR INCH CODE GAUGE STEEL KNOCKOUT BOXES GALVANIZED OR SHERADIZED OF REQUIRED DEPTH FOR SERVICE OR DEVICE.

B. PVC BOXES MAY BE USED WHERE NOT EXPOSED.

SWITCHES, RECEPTACLES AND COVER PLATES

PROVIDE WHERE SHOWN ON PLANS WIRING DEVICES. PART NUMBERS SHALL BE AS LISTED FOR EACH DEVICE SPECIFIED. EQUIVALENT DEVICES BY HUBBELL, PASS &

INDUSTRY REFERENCES

A. UNDERWRITER'S LABORATORIES (UL)

SWITCHES (UL 20) RECEPTACLES, PLUGS & CONNECTORS (UL 498) PIN & SLEEVE CONNECTORS (UL 1286) DEVICE PLATES (UL 514) GFCI'S (UL 943)

B. NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION (NEMA) WD-1 (DEVICES, PLATES, COLORS)

A. GENERAL: PROVIDE FACTORY-FABRICATED WIRING DEVICES IN TYPES, COLORS, AND ELECTRICAL RATINGS FOR APPLICATIONS INDICATED. WHEREVER POSSIBLE, DEVICES SHALL BE BACK AND SIDE WIRED. ALL SWITCHES AND RECEPTACLES SHALL INCORPORATE A METAL MOUNTING STRAP: NON-METALLIC MOUNTING STRAPS ARE NOT ACCEPTABLE. SWITCHES SHALL BE SPEC GRADE AND LISTED PER UL 20 AND CERTIFIED BY UL TO FED SPEC. WS-596E. RECEPTACLES SHALL BE SPEC GRADE AND LISTED PER UL 498 AND CERTIFIED BY UL TO FED. SPEC. WS-896E. BOTH SWITCHES AND RECEPTACLES SHALL BE VISIBLY MARKED WITH THE "UL-FS" MARK TO CONFIRM CERTIFICATION. ALL DEVICES SHALL BE FROM THE SAME MANUFACTURER. ALL DEVICES SHALL BE GRAY UNLESS OTHERWISE ON PLANS. ALL SURFACE RACEWAY SHALL BE SATIN ALUMINUM UNLESS NOTED OTHERWISE ON PLANS.

B. EACH CONVENIENCE RECEPTACLE OUTLET SHALL BE EQUIPPED WITH A 20 AMPERE DUPLEX PLUG RECEPTACLES EXCEPT WHERE NOT ON A CODE-REQUIRED DWELLING UNIT 20-AMP CIRCUIT AND THEN MAY BE 15 AMP. RECEPTACLES SHALL BE 3 WIRE GROUNDING TYPE. RECEPTACLES SHALL BE RESIDENTIAL GRADE, TAMPER-RESISTANT PER CODE WHERE IN DWELLING UNITS AND SPEC GRADE ELSEWHERE.

SWITCH AND RECEPTACLE FLUSH WALL PLATES

WALL PLATES: WALL PLATES FOR ALL FLUSH OUTLETS AND SWITCHES SHALL BE SMOOTH STAINLESS STEEL. ALL PLATES SHALL OF THE SAME MANUFACTURER AS THE DEVICES. PLATES FOR SURFACE MOUNTED DEVICE OUTLETS SHALL BE DRAWN GALVANIZED STEEL FOR STEEL BOXES AND CAST FOR CAST BOXES.

LIGHTING FIXTURES

PROVIDE LIGHTING FIXTURES COMPLETE WITH NOTED LAMP SOURCES AND ACCESSORIES REQUIRED FOR INSTALLATION. CONTRACTOR SHALL INSURE THAT FIXTURES ARE CLEAN AT TIME OF FINAL INSPECTION. MOUNT RECESSED FIXTURES WITH TRIM FLUSH TO CEILINGS, FREE OF GAPS OR CRACKS.

B. COORDINATE MOUNTING OF CEILING MOUNTED LIGHTING FIXTURES WITH GENERAL CONTRACTOR. WHERE ADDITIONAL FIXTURE SUPPORTS ARE REQUIRED DUE TO LIGHTING FIXTURE LOCATION OR WEIGHT, SUPPORTS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR, UNLESS OTHERWISE SPECIFIED UNDER CEILING SPECIFICATIONS.

CIRCUIT BREAKER PANELBOARDS

PROVIDE DEAD_FRONT PANELBOARDS WITH MOLDED CASE CIRCUIT BREAKERS AS LISTED IN SCHEDULE. PANELBOARDS SHALL CONFORM TO NEMA STANDARD PUBLICATION NO. PB_1 AND UL STANDARDS NO. 50 & 67 FOR PANELBOARDS.

BOXES SHALL BE GALVANIZED STEEL STANDARD WIDTH AND DEPTH EXCEPT WHERE SCHEDULED OTHERWISE. FRONTS SHALL BE CODE GAUGE STEEL FINISHED WITH RUST_INHIBITING PRIMER AND BAKED ENAMEL FINISH. FRONTS SHALL HAVE FLUSH DOORS WITH FLUSH CYLINDER TUMBLER TYPE LOCKS, SPRING_LOADED DOOR PULLS, CONCEALED DOOR HINGES. PROVIDE DOORS HIGHER THAN 48" WITH THREE POINT CATCH.

PROVIDE TIN_FINISHED ALUMINUM BARS FULL LENGTH OF PANEL WITH RATING LISTED IN SCHEDULE. BUS BAR CONNECTION TO BRANCH CIRCUIT BREAKERS SHALL BE "PHASE SEQUENCE" TYPE DESIGNED AND ASSEMBLED SO CIRCUIT BREAKERS CAN BE REPLACED WITHOUT DISTURBING ADJACENT BREAKERS OR REMOVING MAIN BUS OR BRANCH CIRCUIT CONNECTORS. PROVIDE BUS BARS WITH WIRE LUGS SUITABLE FOR COPPER OR ALUMINUM CONDUCTORS. PROVIDE EACH PANEL WITH EQUIPMENT GROUNDING BUS GROUNDED TO BOX AND NEUTRAL BUS INSULATED FROM BOX.

BRANCH CIRCUIT BREAKERS SHALL BE QUICK_MAKE. QUICK_BREAK WITH TRIP INDICATION. CIRCUIT BREAKERS SHALL OPERATE BOTH MANUALLY FOR NORMAL SWITCH FUNCTIONS AND AUTOMATICALLY UNDER OVERLOAD AND SHORT CIRCUIT CONDITIONS. OPERATING HANDLE OF CIRCUIT BREAKER SHALL OPEN AND CLOSE ALL POLES OF A MULTI-POLE BREAKER SIMULTANEOUSLY AND CONFORM TO NEMA STANDARDS PUBLICATIONS NO. PB_1 AND BE APPROVED BY UL. CIRCUIT BREAKER SHALL HAVE A THERMAL MAGNETIC TRIP UNIT FOR EACH POLE FOR INVERSE TIME DELAYED OVERLOAD PROTECTION AND AN INSTANTANEOUS MAGNETIC ELEMENT FOR SHORT CIRCUIT PROTECTION.

E. PANELS SHALL HAVE BRANCH CIRCUIT DIRECTORY HOLDERS WITH CLEAR PLASTIC COVER. PROVIDE NEATLY TYPED LIST OF BRANCH CIRCUIT LOADS CORRESPONDING INDICATING EQUIPMENT SERVED AND SPECIFIC LOCATION TO BRANCH CIRCUIT NUMBERS.

PANELBOARDS FOR APARTMENTS SHALL BE SQUARE "D" NOOD FOR 400 A AND LESS.

DISCONNECT SWITCHES

PROVIDE HEAVY DUTY HORSEPOWER RATED SAFETY SWITCHES RATED IN ACCORDANCE WITH NEMA ENCLOSED SWITCH STANDARD KS 1_1969 AND L98 STANDARD.

ENCLOSURE SHALL BE NEMA TYPE REQUIRED BY SWITCH LOCATION AND ENVIRONMENT. ENCLOSURE DOOR SHALL LATCH WITH MEANS FOR PADLOCKING AND COVER INTERLOCK WITH DEFEATER TO PREVENT OPENING DOOR WHEN SWITCH IS ENERGIZED OR CLOSING SWITCH WITH DOOR OPEN.

FUSE HOLDERS SHALL BE HIGH PRESSURE SUITABLE FOR USE WITH DUAL ELEMENT FUSES OR REJECTION TYPE CURRENT LIMITING FUSES WHERE REQUIRED. FUSE HOLDERS SHALL BE COMPLETELY ACCESSIBLE FROM FRONT OF SWITCH.

RICHARD R. BEARDMORE

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architects, p.a.

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www.escarchitects.com

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with due care and diligence, they cannot guarantee
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contingency cannot be anticipated. Any ambiguity or
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elswood smith carlson architects, pa

Kansas state certificate of authority # A-142 Missouri state certificate of authority # 000338

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7133 west 95th street

ph: 913-649-7557

suite 200

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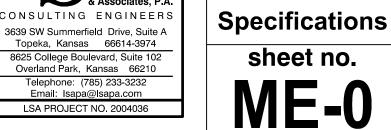
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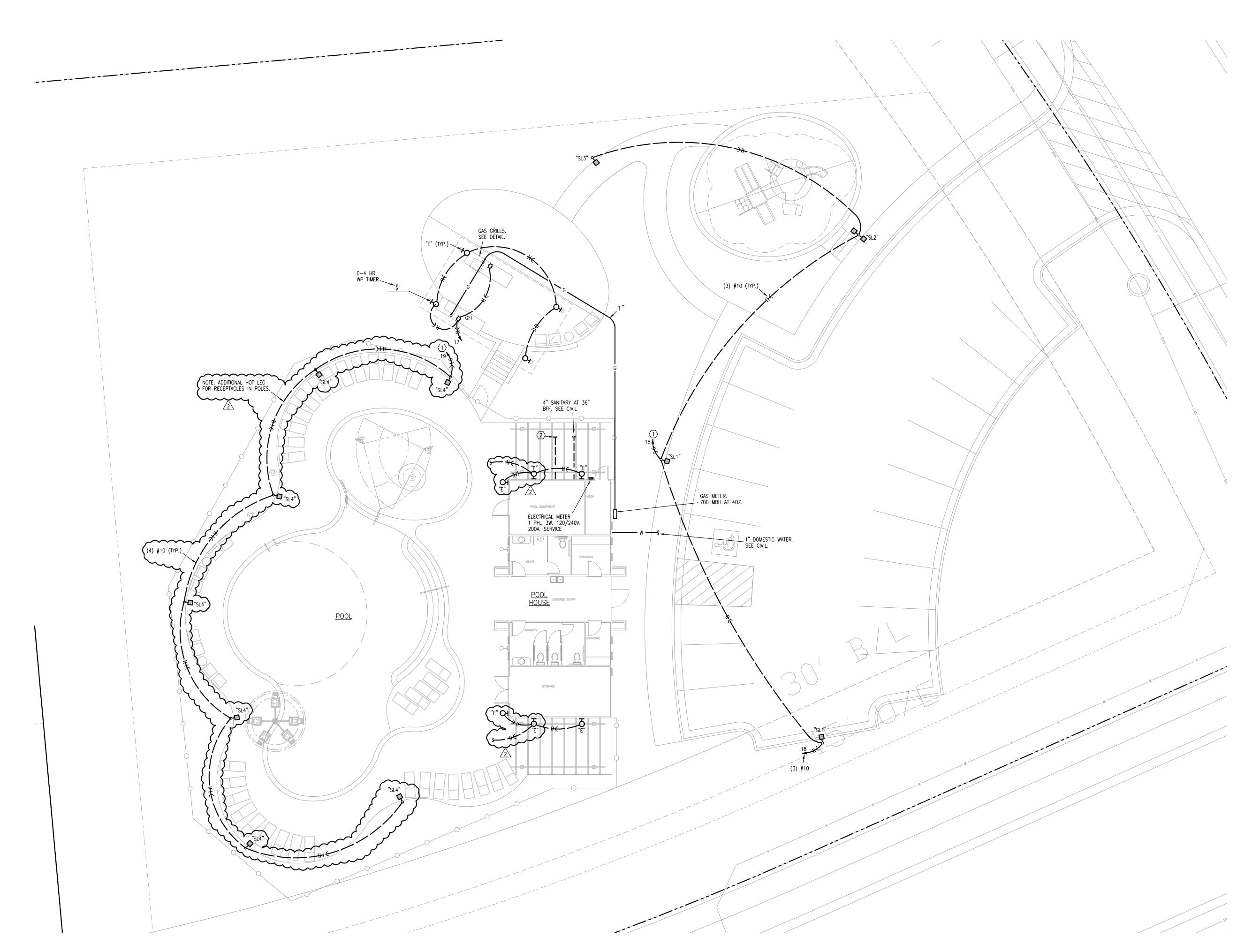
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struct. by APEX Mech/Elec







- SEE CIVIL, ARCHITECTURAL AND LANDSCAPE DRAWING FOR FURTHER INFORMATION AND WORK.
- NOTIFY UTILITY PROVIDERS PRIOR TO ANY EXCAVATION, TRENCHING OR GRADING TO MARK UTILITIES.
- PROVIDE ALL UTILITY PROVIDER REQUIREMENTS WITH REGARDS TO INTERFACING WITH THEIR WORK AND INCLUDE ALL ITEMS REQUIRED FOR PROPER INSTALLATION.
- TRANSFORMER AND PRIMARY LOCATIONS ARE TO BE VERIFIED WITH THE PROVIDER AS TO FINAL LOCATIONS BASED ON THEIR DESIGN AND CONTRACTOR REQUIREMENTS.
- ALL SITE LIGHTING CIRCUITS ROUTE THROUGH PHOTOCELL/TIME CLOCK AND HAVE (3) #10 WIRES UNLESS NOTED OTHERWISE.
- POLE FIXTURES SHALL HAVE SCREW IN BASE, FLUSH WITH GRADE. POLE SHALL BE 15' AND FIXTURE AT TOP SHALL NOT EXTEND ABOVE TOP OF THE POLE.

LEGEND:

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

smith

carlson

architects, p.a. 7133 west 95th street suite 200

> overland park, ks 66212 ph: 913-649-7557 www.escarchitects.com

elswood smith carlson architects, pa.

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11/22/2021

FARMS

LEE'S SUMMIT, I SUMMIT POOL HOUSE

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1 UPDATES
2 CITY REVIEW 11-22-21

Weston E. Coble

Architect KS# 6705

design by RRB drawn by CAD struct. by APEX

Site Plan -Mech/Elec

sheet no.

3639 SW Summerfield Drive, Suite A Topeka, Kansas 66614-3974 8625 College Boulevard, Suite 102 Overland Park, Kansas 66210

Telephone: (785) 233-3232 Email: Isapa@Isapa.com LSA PROJECT NO. 2004036

			Luminaire Schedule - Ur	nits and Buil	dings		
MARK	DESCRIPTION	MFGR	MODEL	MOUNTING	FINISH	LAMPS	NOTES
Е	Trellis	Progress	P5641-20/30K	ceiling	bronze	1355 Lumen 29W 3000K LED	
SL1	Exterior Pole	McGraw Edison	GLEON -AF-02 LED E1 T4FT	pole	bronze	113W 12252 Lumen 4000K led	provide with 15 ft pole
SL2	Exterior Pole	McGraw Edison	GLEON-AF-01-LED-E1-SL4	pole	bronze	(2) 59W 5922 Lumen 4000K led	provide with 15 ft pole
SL3	Exterior Pole	McGraw Edison	GLEON-AF-01-LED-E1-T3	pole	bronze	59W 6235 Lumen 4000K led	provide with 15 ft pole
SL4	Exterior Pole	McGraw Edison	GLEON-AF-01-LED-E1-T3	pole	bronze	59W 6235 Lumen 4000K led	w/ WP-GFI receptacle



DATE:	TYPE:	"E"	
NAME:			
PROJECT:			

Halogen/incandescent

P5641-20

Cylinder

6" downlight wall cylinders are ideal for a wide variety of interior and exterior applications including residential and commercial. The aluminum Cylinders offers a contemporary design with its sleek cylindrical form and elegant Antique Bronze finish, perfect for today's inspired exteriors. Modern details feature a die-cast aluminum wall bracket and heavy-duty aluminum Depth: 8-7/8" framing - resulting in an impeccable modern accent that adds panache and

H/CTR: 4-1/2" sophistication to your outdoor spaces.

Height: 12"

Width: 6"

- Antique Bronze finish.
- Interior finish matches exterior finish. • Ideal for a wide variety of interior and exterior applications.
- One 250w PAR-38 or 150w BR-40.

Category: Outdoor

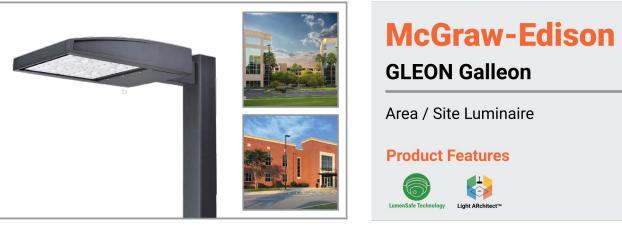
Finish: Antique Bronze (powder coat paint)

Construction: Cast aluminum Construction

MOUNTING	ELECTRICAL	LAMPING	ADDITIONAL INFORMATION
Wall mounted	Pre-wired	Quantity:	UL-CUL Wet location listed
Mounting strap for outlet box	6" of wire supplied	One 250w max. PAR-38	1 year warranty
included	120 V	E26 base porcelain socket	
Back plate covers a standard 4" octagonal recessed outlet box		·	
4.5" W., 4.5" ht., 2.93" depth			

Rev. 05/19 701 Millennium Blvd. Greenville, South Carolina 29607 www.progresslighting.com





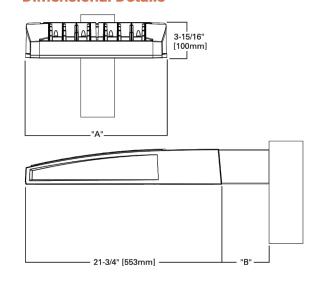
Interactive Menu

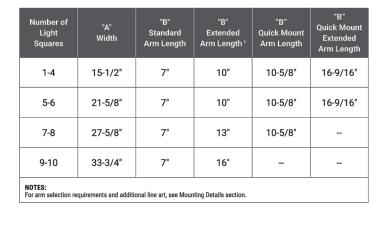
- Ordering Information page 2
- Mounting Details page 3 • Optical Distributions page 4
- Product Specifications page 4
- Energy and Performance Data page 4
- Control Options page 9

Quick Facts

- Lumen packages range from 4,200 80,800 (34W - 640W)
- Efficacy up to 156 lumens per watt

Dimensional Details





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ℛ Connected Systems

WaveLinx

Enlighted

NOTES:

1. Visit https://www.designlights.org/search/ to confirm qualification. Not all product variations are DLC qualified.

2. IDA Certified for 3000K CCT and warmer only.



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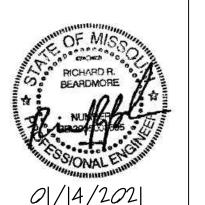
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carlson architects, p.a.

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FARMS VIEV SUMMIT, POOL HOUSE

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> Weston E. Coble Architect KS# 6705

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Site Plan -

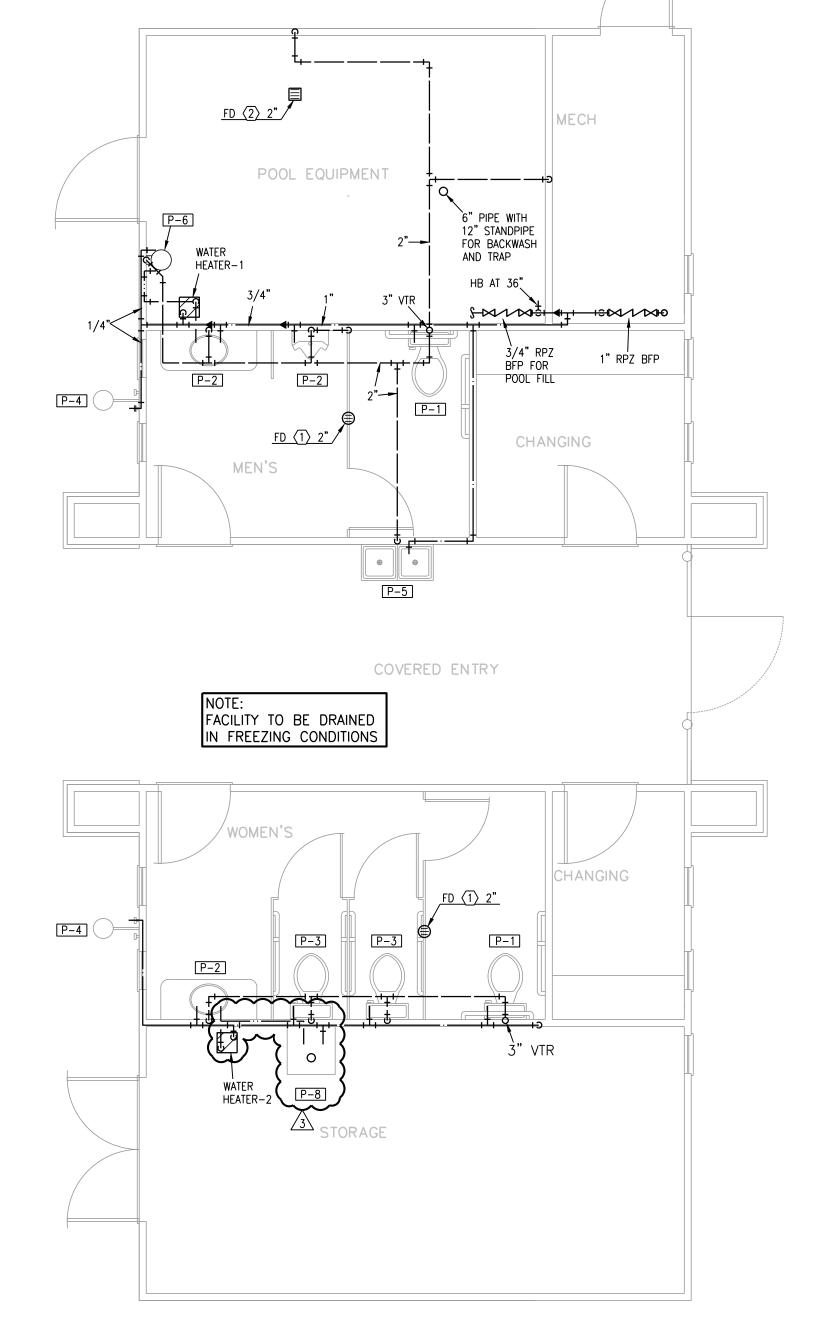
Details

CONSULTING ENGINEERS

3639 SW Summerfield Drive, Suite A Topeka, Kansas 66614-3974
8625 College Boulevard, Suite 102

Overland Park, Kansas 66210 Telephone: (785) 233-3232 Email: Isapa@Isapa.com LSA PROJECT NO. 2004036





FIRST FLOOR PLAN

1/4"=1'-0"

PLUMBING



- ALL DRAIN, WASTE AND VENT PIPING IS 2" UNLESS
- ANY BELOW SLAB SUPPLY PIPING SHALL BE PEX WITH NO JOINTS.
- ALL SUPPLY PIPING IS 1/2" UNLESS NOTED OTHERWISE OR REQUIRED BY THE PLUMBING CODE.
- ALL PLUMBING VENTS SHALL BE 10 FEET FROM
- ALL FIXTURES SHALL HAVE AIR CHAMBERS OR BLADDER TYPE SHOCK SUPPRESSORS FOR EACH CHASE.
- HEIGHTS.
- DRAIN LOCATIONS AND FLOOR SLOPES IF PRESENT. OTHERWISE.
- D. ROUTE DRAIN PIPING FROM WATER HEATERS, AIR HANDLERS OR EQUIPMENT TO FLOOR DRAINS. PROVIDE PROPER TRAPS.
- 1. ROUTE NO PIPING OVER ELECTRICAL EQUIPMENT.



- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
- 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.

- CONNECT ALL APPLIANCES OR EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS.
- OPENINGS OR INTAKES.
- SEE THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING
- REFER TO THE ARCHITECTURAL DRAWINGS FOR FLOOR ALL FLOOR DRAINS ARE 2" TYPE 1 UNLESS NOTED



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for all consequences arriving out of such changes.
Contractor shall check and verify all dimensions.



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SUMMIT LEE'S SUMMIT, I POOL HOUSE

3 CITY COMMENTS 01-04-22

Weston E. Coble KS# 6705 MO# A-2016011206

01/14/2021 revised design by RRB
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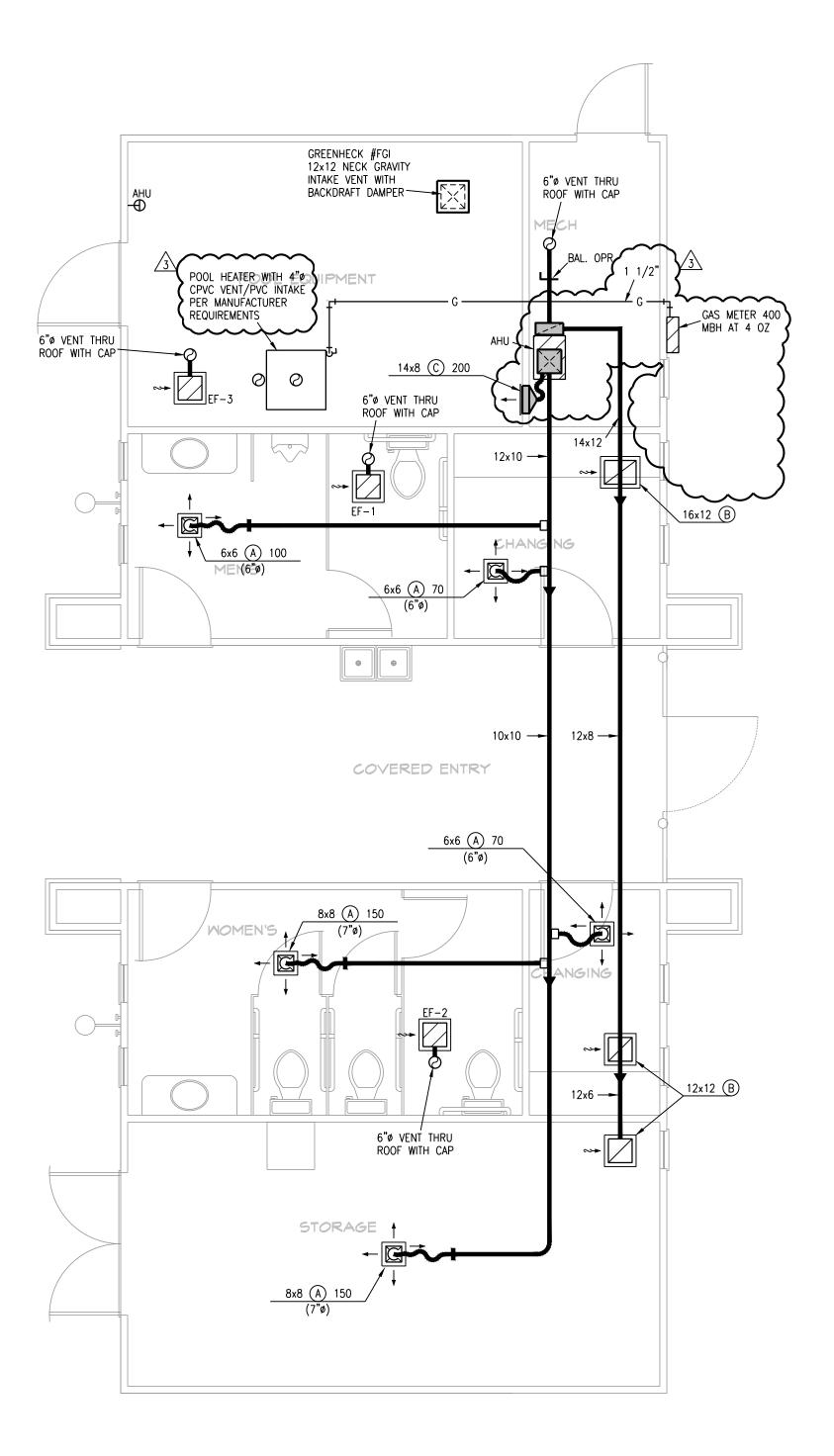
First Floor Plan - Mech/Elec

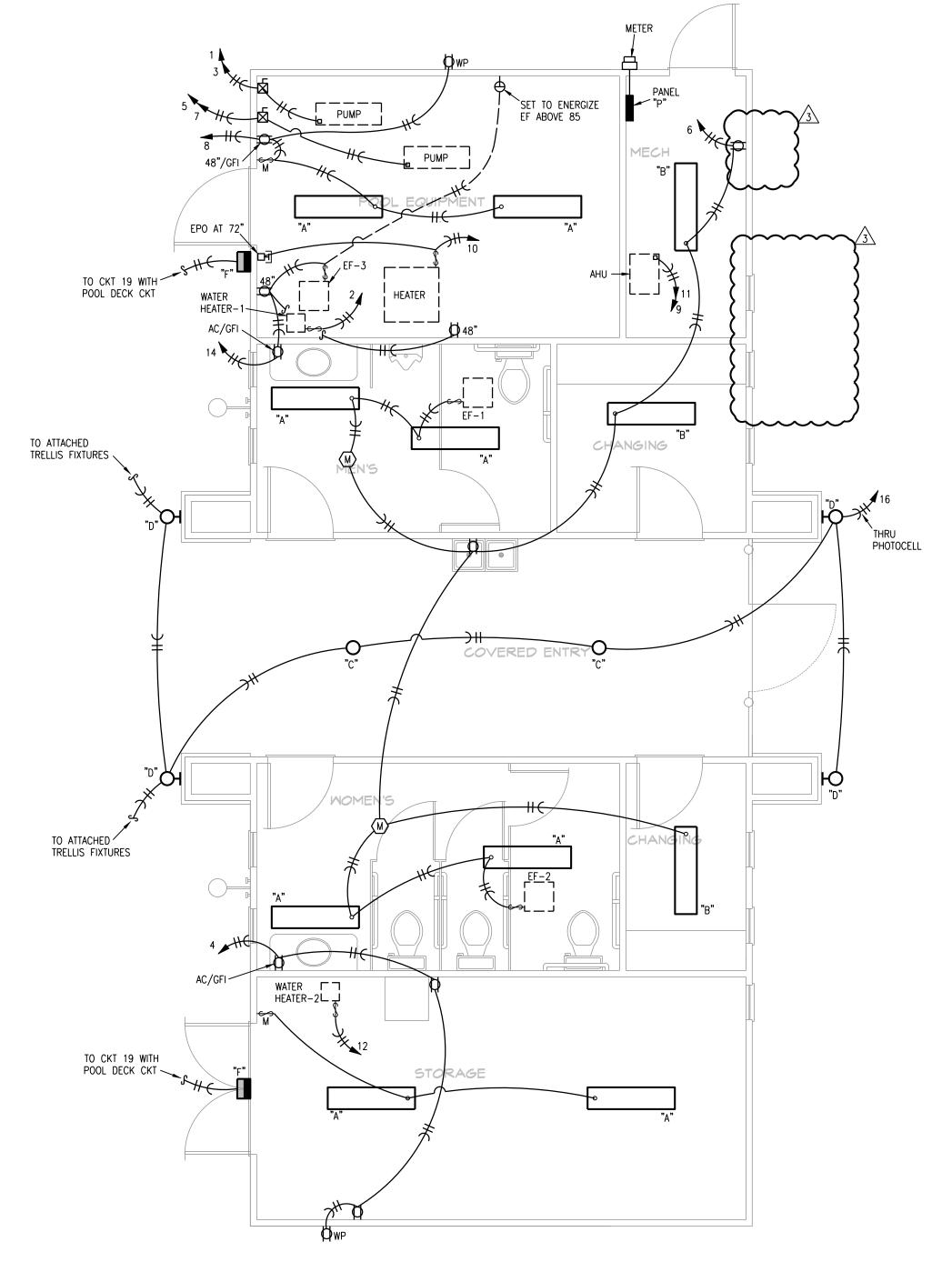


- COORDINATE WITH OTHER SUB-CONTRACTORS FOR PLACEMENT OF WORK PRIOR TO INSTALLATION BEGINNING.
- ALL INDIVIDUAL BRANCH DUCTS ARE THE SIZE OF THE DIFFUSER NECK LISTED AND HAVE A MANUAL BALANCING DAMPER WHERE NOT INTEGRAL WITH THE DIFFUSER.
- SEE THE ARCHITECTURAL, LIGHTING AND STRUCTURAL DRAWINGS FOR CLEARANCES.
- MAINTAIN 3 FEET CLEARANCE FROM EXHAUST DUCTS TO BUILDING OPENINGS AND 10 FEET TO AIR INTAKES.
- ROUTE NO DUCTS OVER ELECTRICAL EQUIPMENT.
- FLEXIBLE DUCT LENGTHS SHALL NOT EXCEED 15 FEET AND SHALL BE AS STRAIGHT AS POSSIBLE AND NOT KINKED AT DIFFUSER OR TAKE-OFF.
- RECTANGULAR DUCT RUNS MAY BE CONVERTED TO EQUIVALENT ROUND WITH THE SAME STATIC LOSS PER 100 FT.

NOTES: ELECTRICAL

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











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SUMMIT POOL HOUSE

3 CITY COMMENTS 01-04-22

Weston E. Coble Architect KS# 6705 MO# A-2016011206

project no. 20091 date 01/14/2021

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drawn by CAD
struct. by APEX

3639 SW Summerfield Drive, Suite A Topeka, Kansas 66614-3974 8625 College Boulevard, Suite 102 Overland Park, Kansas 66210

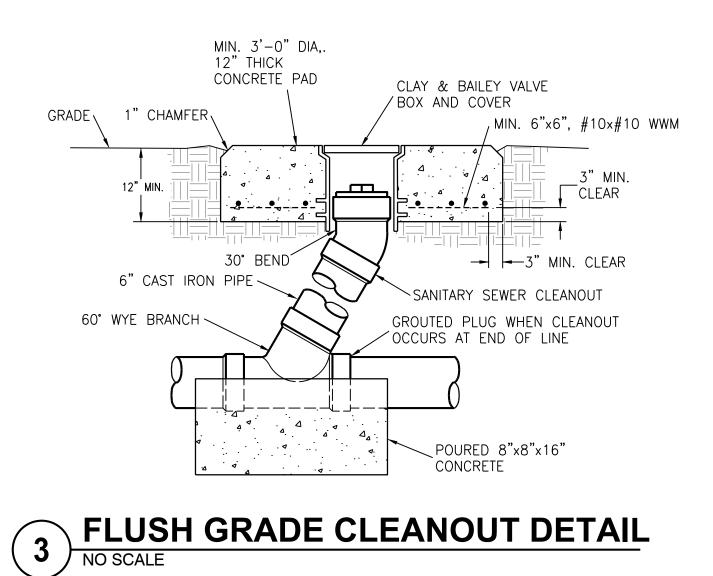
Telephone: (785) 233-3232 Email: Isapa@Isapa.com LSA PROJECT NO. 2004036

First Floor Plan - Mech/Elec

1 DOMESTIC WATER ENTRANCE RISER NO SCALE

NOTES:

1. ALL WATER SERVICE INSTALLATIONS INCLUDING BACKFLOW DEVICES ARE SUBJECT TO FIELD VERIFICATION AND APPROVAL BY THE WATER DEPARTMENT INSPECTOR.



1" X 4" CARRIAGE BOLTS W/NUTS		
1"	1. 2.	FINISH: BASEPLA
12" SQ.	3.	CENTERL STENCIL
12 30.	4.	AFTER GA
9" TO 14"	5. 6.	FLAME CI
DIA. BOLT CIRCLE	7.	HELIX,
		EXCEED : POSITIVI SURFACE
2. 5"	8.	MANUFAC QUAL I TY
12"	9.	ALL MAT MEETING
		BAS
6. 63" DIA.		AHZ
12"		
8" 12" DIA. HELIX		HEL
		PIL
		BOL
	10.	BASEPLA IDENTIF IN 1/4"
ALL RADIAL SECTIONS NORMAL TO AXIS ±3ú		
3″ PITCH		

ALL RADIAL SECTIONS NORMAL TO AXIS ±3ú

HELIX MUST BE FORMED BY MATCHING METAL DIE

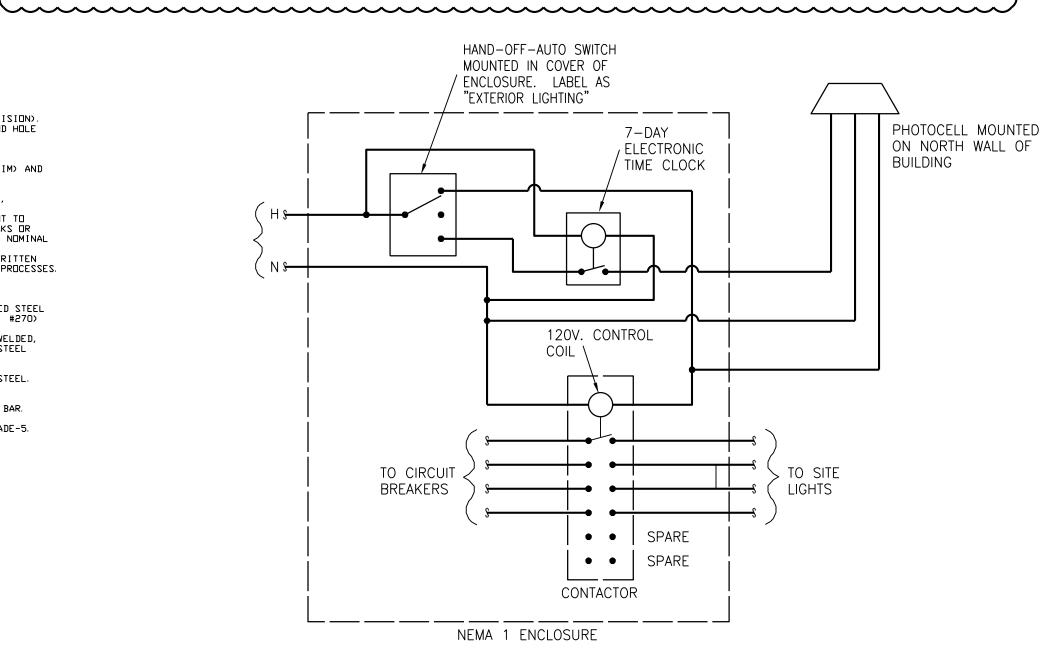
(SIDE VIEW OF TRUE HELICAL FORM)

PILOT POINT: ASTM A575 (LATEST REVISION) STEEL BAR.

BOLTS: CARR BOLT PER ANSI B-18.2.1, SAE J429 GRADE-5.

BASEPLATE IS PERMANENTLY STAMPED WITH MANUFACTURER'S IDENTIFICATION "ABC" IN 1/2" LETTERS AND DATE CODE IN 1/4" LETTERS.





EXTERIOR LIGHTING

CONTROL PANEL SCHEMATIC

NO SCALE

~~~~~~~<u>\</u>

| #_               | CONDUIT CONCEALED IN CEILING OR WALL                 | \$              | SWITCH - SINGLE POLE                 |
|------------------|------------------------------------------------------|-----------------|--------------------------------------|
| , <del>+</del> / | CONDUIT CONCEALED IN FLOOR SLAB                      | \$ 3, 4         | 3-WAY, 4-WAY                         |
| ·-*              | EXPOSED CONDUIT                                      | "A"             | LIGHT FIXTURE AND TYPE               |
| #                | HOMERUN - ARROW INDICATES CKT., LINES INDICATE WIRES | ⊗ ⊗             | EXIT LIGHT (CEILING OR WALL MOUNTED) |
| <b>\</b>         | GROUND WIRE                                          |                 | FLUSH PANELBOARD                     |
| <u>—</u> [ı·     | GROUNDING ROD                                        |                 | SURFACE PANELBOARD                   |
| ф                | SINGLE RECEPTACLE                                    |                 | DISTRIBUTION PANEL OR SWITCHBOARD    |
| þ                | DUPLEX RECEPTACLE (20 AMP UNLESS NOTED)              | AC              | DEVICE LOCATED ABOVE COUNTER         |
| #                | FOURPLEX RECEPTACLE                                  | AFF             | ABOVE FINISHED FLOOR                 |
| Ф                | 208 OR 240 VOLT RECEPTACLE (20 AMP UNLESS NOTED)     | D               | DIMMER                               |
| 4                | PUSHBUTTON                                           | EDF             | ELECTRIC DRINKING FOUNTAIN           |
| Ó                | MOTOR                                                | GFI             | GROUND FAULT INTERRUPTER             |
| \$               | FUSIBLE SWITCH (BUSSMAN SSU)                         | NL              | NIGHTLIGHT FIXTURE, WIRED HOT        |
| G                | DISCONNECT SWITCH (D.S.)                             | WP              | WEATHERPROOF                         |
| ᡌ                | COMBINATION MOTOR STARTER (CMS)                      |                 | LOCKABLE GUARD                       |
| R                | RELAY                                                | M               | CEILING MOTION SENSOR                |
|                  | JUNCTION BOX                                         | \$ <sub>M</sub> | WALL MOTION SENSOR                   |
| Ф                | THERMOSTAT                                           |                 |                                      |

| FFCO O FLUSH FLOOR CLEAN OUT  FGCO O FLUSH GRADE CLEAN OUT  FLOOR DRAIN AND TYPE  FLOOR DRAIN AND TYPE  SUPPLY AIR DUCT SECTION UP AND DOWN  ROUND OR RECTANGULAR RIGID DUCT  THERMOSTAT  HB/36" HOSE BIBB AND MOUNTING HEIGHT  THE WH WALL HYDRANT  DOMESTIC AS LINE  RETURN, EXHAUST OR FRESH AIR DUCT SECTION UP AND DOWN  ROUND OR RECTANGULAR RIGID DUCT  FLEXIBLE DUCT  THERMOSTAT  THERMOSTAT  REFRIGERANT LIQUID  FILE XIBLE DUCT  THERMOSTAT  AD ACCESS DOOR  FILE XIBLE DUCT  THERMOSTAT  FILE XIBLE DUCT  REFRIGERANT SUCTION  AD ACCESS DOOR  FILE XIBLE DUCT  THERMOSTAT  FILE XIBLE DUCT  THERMOSTAT  FILE XIBLE DUCT  THERMOSTAT  FILE XIBLE DUCT  THERMOSTAT  FILE XIBLE DUCT  |                    | WATER CLOSET & TYPE (TYP. FOR ALL PLUMBING FIXTURES) |               | MANUAL DAMPER                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------|---------------|-----------------------------------------------------|
| HICO CLEAN OUT    6x6(A)80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | +                  | WASTE LINE ABOVE EARTH (W.)                          | ₹ <b>#</b> }® | BACKDRAFT DAMPER                                    |
| FECO O FLUSH FLOOR CLEAN OUT  FICON FOR DRAIN AND TYPE  FLOOR DRAIN AND TYPE  SUPPLY AIR DUCT SECTION UP AND DOWN  ROUND OR RECTANGULAR RIGID DUCT  FLEXIBLE DUCT  THERMOSTAT  HOSE BIBB AND MOUNTING HEIGHT  HOSE BIBB AND MOUNTING HEIGHT  FLYDRANT  DOMESTIC ADDITIONAL OR SUPPLY (DRW)  FLEXIBLE DUCT  REFRIGERANT LIQUID  FLEXIBLE DUCT  REFRIGERANT SUCTION  AD ACCESS DOOR  FLEXIBLE PLOOR  FLOOR  FLOOR  FLOOR  FLEXIBLE PLOOR  FLEXIBLE PLOOR  FLOOR  FLOOR  FLEXIBLE PLOOR  FLOOR  FLEXIBLE PLOOR  FLEXIBLE PLOOR  FLEXIBLE PLOOR  FLOOR  FL |                    | WASTE LINE IN EARTH (W.)                             |               | AUTOMATIC DAMPER                                    |
| FCCO ○ FLUSH GRADE CLEAN OUT  FLOOR DRAIN AND TYPE  FLOOR DRAIN AND TYPE  SUPPLY AIR DUCT SECTION UP AND DOWN  ROUND OR RECTANGULAR RIGID DUCT  FLEXIBLE DUCT  FLEXIBLE DUCT  THERMOSTAT  HB/36" HOSE BIBB AND MOUNTING HEIGHT  HWH WALL HYDRANT  D RAIN LINE  D RAIN LINE  AD ACCESS DOOR  AFF ABOVE FINISHED FLOOR  REFRIGERANT SUCTION  AFF ABOVE FINISHED FLOOR  REFRIGERANT AIR  REDUCER  OA OUTSIDE AIR  REDUCER  CHECK VALVE  RA RETURN AIR  PLUG VALVE  PRESSURE REDUCING VALVE  VBS VENT BELOW SLAB  PRESSURE REDUCING VALVE  VTR VENT THRU ROOF  LOCKABLE GUARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | — со               | CLEAN OUT                                            | 6x6(A)80 □    | GRILLE, REGISTER OR DIFFUSER, SIZE, TYPE & CFM      |
| TO FD FLOOR DRAIN AND TYPE  VENT LINE (V.)  DOMESTIC COLD WATER SUPPLY (DCW)  → DOMESTIC HOT WATER SUPPLY (DW)  → HB/35" HOSE BIBB AND MOUNTING HEIGHT  → HB/35" HOSE BIBB AND MOUNTING HEIGHT  → U — REFRIGERANT LIQUID  → S — REFRIGERANT SUCTION  → D — DRAIN LINE  → AD ACCESS DOOR  → G — NATURAL GAS LINE  → REDUCER  → REDUCER  → CHECK VALVE  → CHECK VALVE  → PLUG VALVE  → PLUG VALVE  → PRESSURE REDUCING VALVE  → STAINER   SUPPLY AIR DUCT SECTION UP AND DOWN  ROUND OR RECTANGULAR RIGID DUCT  → FLEXIBLE DUCT  → REFRIGERANT LIQUID  → REFRIGERANT SUCTION  → ACCESS DOOR  AFF ABOVE FINISHED FLOOR  EA EXHAUST AIR  → RETURN AIR  → RETURN AIR  → STOP VALVE  → PLUG VALVE  → PLUG VALVE  → PRESSURE REDUCING VALVE  ▼ VENT BELOW SLAB  ▼ VENT THRU ROOF  ▼ VENT THRU ROOF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FFCO O             | FLUSH FLOOR CLEAN OUT                                |               | VOLUME EXTRACTOR AND TURNING VANES                  |
| The count of rectangular rigid duct  The count of rectangular rigid ducts  The count of rectangular rigid  | FGCO O             | FLUSH GRADE CLEAN OUT                                |               | RETURN, EXHAUST OR FRESH AIR DUCT SECTION UP & DOWN |
| DOMESTIC COLD WATER SUPPLY (DCW)  → FLEXIBLE DUCT  → HB/36" HOSE BIBB AND MOUNTING HEIGHT  → HB/36" HOSE BIBB AND MOUNTING HEIGHT  → L — REFRIGERANT LIQUID  → WALL HYDRANT  → S — REFRIGERANT SUCTION  AD ACCESS DOOR  → G — NATURAL GAS LINE  → REDUCER  REDUCER  OA OUTSIDE AIR  → REDUCER  CHECK VALVE  RA RETURN AIR  → STOP VALVE  PLUG VALVE  PRESSURE REDUCING VALVE  VIR VENT THRU ROOF  STRAINER   → LOCKABLE GUARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <u>." ⟨1⟩ FD</u> ⊜ | FLOOR DRAIN AND TYPE                                 |               | SUPPLY AIR DUCT SECTION UP AND DOWN                 |
| → HB/36"       HOSE BIBB AND MOUNTING HEIGHT       — L — REFRIGERANT LIQUID         ➡ WH       WALL HYDRANT       — S — REFRIGERANT SUCTION         — D — DRAIN LINE       AD ACCESS DOOR         — G — NATURAL GAS LINE       AFF ABOVE FINISHED FLOOR         ➡ REDUCER       OA OUTSIDE AIR         — CHECK VALVE       RA RETURN AIR         STOP VALVE       SA SUPPLY AIR         ➡ PLUG VALVE       VBS VENT BELOW SLAB         ➡ PRESSURE REDUCING VALVE       VTR VENT THRU ROOF         STRAINER       — LOCKABLE GUARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | VENT LINE (V.)                                       |               | ROUND OR RECTANGULAR RIGID DUCT                     |
| HB/36" HOSE BIBB AND MOUNTING HEIGHT — L — REFRIGERANT LIQUID  —E1 WH WALL HYDRANT — S — REFRIGERANT SUCTION  —D — DRAIN LINE AD ACCESS DOOR  —G — NATURAL GAS LINE AFF ABOVE FINISHED FLOOR  —Q — Q — RISE & DROP IN PIPE WITH CUT-OFF VALVE EA EXHAUST AIR  —— REDUCER OA OUTSIDE AIR  —— CHECK VALVE RA RETURN AIR  —— STOP VALVE SA SUPPLY AIR  —— PLUG VALVE VBS VENT BELOW SLAB  —— PRESSURE REDUCING VALVE VIR VENT THRU ROOF  —— S — REFRIGERANT LIQUID  —— S — REFRIGERANT LIQUID  —— S — REFRIGERANT LIQUID  —— AD ACCESS DOOR  —— AD ACCESS DOOR  —— AD ACCESS DOOR  —— E1 WH  —— ABOVE FINISHED FLOOR  —— OA OUTSIDE AIR  —— STOP VALVE  —— STOP VALVE  —— VBS VENT BELOW SLAB  —— VIR VENT THRU ROOF  —— STRAINER  —— LOCKABLE GUARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                    | DOMESTIC COLD WATER SUPPLY (DCW)                     |               | FLEXIBLE DUCT                                       |
| — E-I WH WALL HYDRANT — S — REFRIGERANT SUCTION  — D — DRAIN LINE AD ACCESS DOOR  — G — NATURAL GAS LINE AFF ABOVE FINISHED FLOOR  — Y → Y RISE & DROP IN PIPE WITH CUT-OFF VALVE EA EXHAUST AIR  — REDUCER OA OUTSIDE AIR  — CHECK VALVE RA RETURN AIR  — STOP VALVE SA SUPPLY AIR  — PLUG VALVE VBS VENT BELOW SLAB  — PRESSURE REDUCING VALVE VTR VENT THRU ROOF  — STRAINER ☐ LOCKABLE GUARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                    | DOMESTIC HOT WATER SUPPLY (DHW)                      | P             | THERMOSTAT                                          |
| — D — DRAIN LINE AD ACCESS DOOR   — G — NATURAL GAS LINE AFF ABOVE FINISHED FLOOR   — → P — → REDUCER OA OUTSIDE AIR   — CHECK VALVE RA RETURN AIR   — STOP VALVE SA SUPPLY AIR   — PLUG VALVE VBS VENT BELOW SLAB   — PRESSURE REDUCING VALVE VTR VENT THRU ROOF   — STRAINER ☐ LOCKABLE GUARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | — + НВ/36"         | HOSE BIBB AND MOUNTING HEIGHT                        | — L —         | REFRIGERANT LIQUID                                  |
| — G — NATURAL GAS LINE AFF ABOVE FINISHED FLOOR   — → P → P → P → P → P ← P → P ← P ← P ← P                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <del>— ⊏</del> wн  | WALL HYDRANT                                         | — s —         | REFRIGERANT SUCTION                                 |
| REDUCER  REDUCER  CHECK VALVE  STOP VALVE  PLUG VALVE  PRESSURE REDUCING VALVE  STRAINER  REA  EXHAUST AIR  OA  OUTSIDE AIR  RA  RETURN AIR  SA  SUPPLY AIR  VBS  VENT BELOW SLAB  VTR  VENT THRU ROOF  LOCKABLE GUARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | — D —              | DRAIN LINE                                           | AD            | ACCESS DOOR                                         |
| REDUCER  OA OUTSIDE AIR  CHECK VALVE  RA RETURN AIR  STOP VALVE  SA SUPPLY AIR  PLUG VALVE  PRESSURE REDUCING VALVE  VTR VENT THRU ROOF  LOCKABLE GUARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | — с —              | NATURAL GAS LINE                                     | AFF           | ABOVE FINISHED FLOOR                                |
| CHECK VALVE  RA RETURN AIR  STOP VALVE  SA SUPPLY AIR  PLUG VALVE  VBS VENT BELOW SLAB  VTR VENT THRU ROOF  STRAINER  LOCKABLE GUARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <del></del>        | RISE & DROP IN PIPE WITH CUT-OFF VALVE               | EA            | EXHAUST AIR                                         |
| STOP VALVE  STOP VALVE  SA SUPPLY AIR  VBS VENT BELOW SLAB  VTR VENT THRU ROOF  STRAINER  STRAINER  LOCKABLE GUARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <del></del>        | REDUCER                                              | OA            | OUTSIDE AIR                                         |
| PLUG VALVE  PLUG VALVE  PRESSURE REDUCING VALVE  VBS  VENT BELOW SLAB  VTR  VENT THRU ROOF  LOCKABLE GUARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u> </u>           | CHECK VALVE                                          | RA            | RETURN AIR                                          |
| PRESSURE REDUCING VALVE  VTR  VENT THRU ROOF  LOCKABLE GUARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | —⋈—                | STOP VALVE                                           | SA            | SUPPLY AIR                                          |
| STRAINER LOCKABLE GUARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | >                  | PLUG VALVE                                           | VBS           | VENT BELOW SLAB                                     |
| · ·                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <u> </u>           | PRESSURE REDUCING VALVE                              | VTR           | VENT THRU ROOF                                      |
| ——— UNION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <del></del>        | STRAINER                                             |               | LOCKABLE GUARD                                      |
| T   C. W. C. |                    | UNION                                                |               |                                                     |
| FLEXIBLE PIPE CONNECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <del></del>        | FLEXIBLE PIPE CONNECTION                             |               |                                                     |

elswood smith

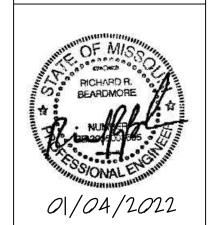
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carlson architects, p.a.

7133 west 95th street suite 200 overland park, ks 66212 ph: 913-649-7557 www.escarchitects.com

elswood smith carlson architects, pa.
Kansas state certificate of authority # A-142
Missouri state certificate of authority # 000338

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SUMMIT VIEW FARMS

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SUMMIT

3 CITY COMMENTS 01-04-22

Weston E. Cob

Weston E. Coble
Architect
KS# 6705
MO# A-2016011206

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project no. 20091

date 01/14/2021

revised design by RRB drawn by CAD

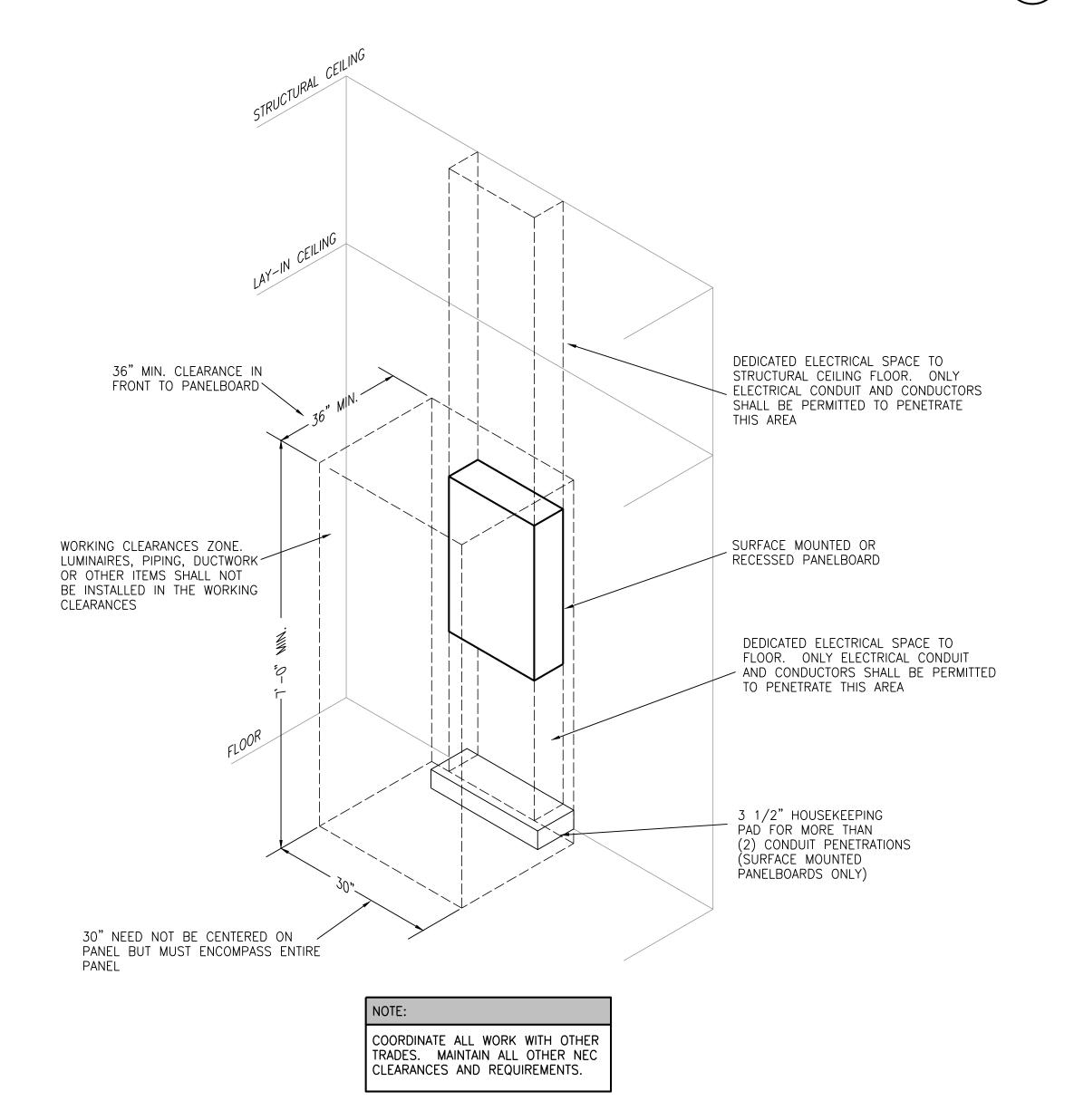
struct. by APEX

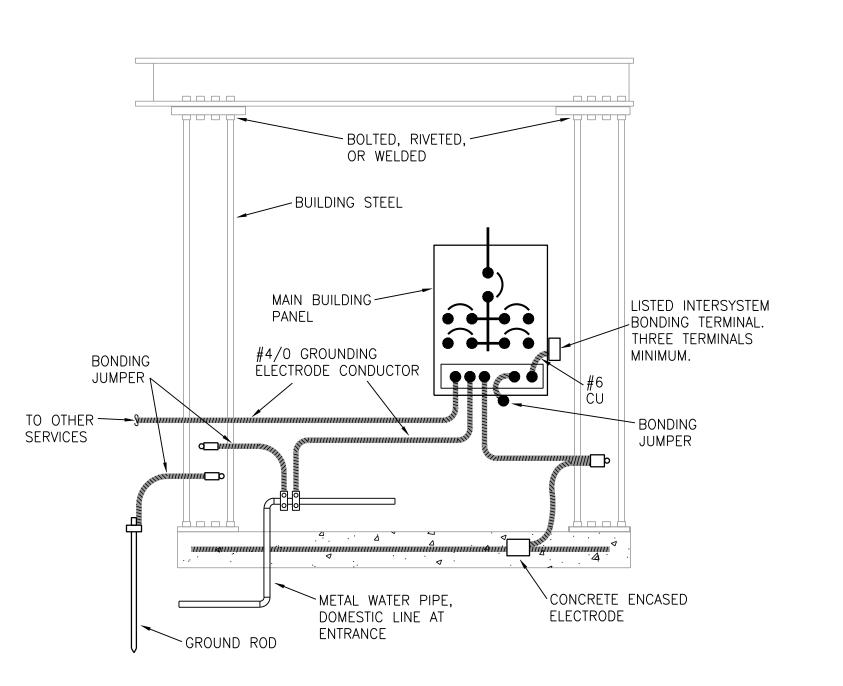
MECH./ELEC.

DETAILS



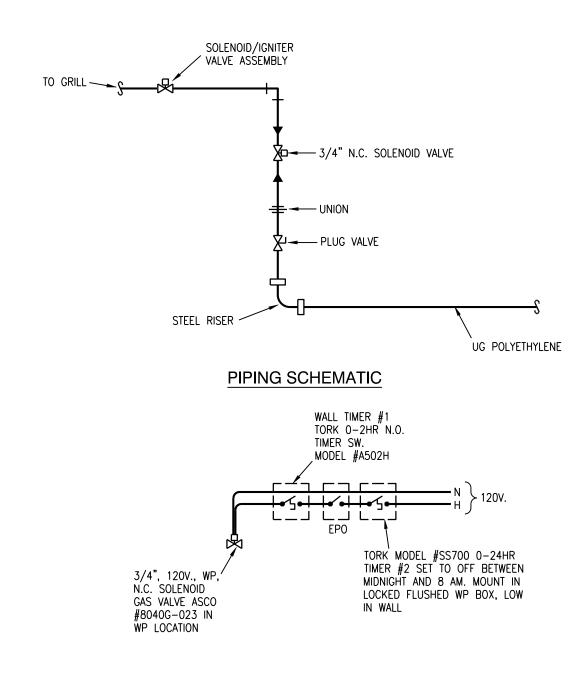
# 1 ELECTRICAL DEVICE MOUNTING HEIGHTS NO SCALE





GROUNDING ELECTRODE SYSTEM DETAIL

NO SCALE



CONTROL SCHEMATIC



TYPICAL PANELBOARD INSTALLATION DETAIL
NO SCALE



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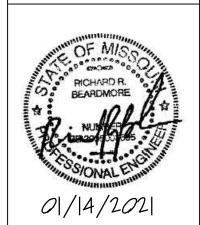
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Contractor shall check and verify all dimensions.



FARMS

HOUSE -SUMMIT, MISSOURI

VIEV

SUMMIT POOL HOUSE

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Weston E. Coble
Architect
KS# 6705

Architect
KS# 6705
MO# A-2016011206

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

MECH./ELEC. DETAILS

| P-1<br>P-2 | Accessible Water Closet, Tank<br>Type  Accessible Lavatory, Countertop                                                                  | Proflo #1203WH<br>with PFTS2000wh<br>Proflo<br>#PF20174BS with<br>Peerless<br>#PFLL1011MBN | Ploor-mounted ADA height white vitreous china elongated bowl 1.6 gpf gravity type with Fluidmaster 400A flush mechanicsm and bolt covers. Provide solid plastic open front elongated white heavy duty seat with integral bumpers, external check hinges with s  20" x 17" oval vitreous china countertop lavatory with overflow. Faucet is 4" o.c. single lever ADA handle, copper waterways, chrome finish. | W<br>3" or 4" | Individual C | CW   | s HW | Supplies | Stops | Accesso | BARROWN | Drain | Other |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|------|------|----------|-------|---------|---------|-------|-------|
| P-1<br>P-2 | Accessible Water Closet, Tank<br>Type  Accessible Lavatory, Countertop                                                                  | Proflo #1203WH<br>with PFTS2000wh<br>Proflo<br>#PF20174BS with<br>Peerless<br>#PFLL1011MBN | Floor-mounted ADA height white vitreous china elongated bowl 1.6 gpf gravity type with Fluidmaster 400A flush mechanicsm and bolt covers. Provide solid plastic open front elongated white heavy duty seat with integral bumpers, external check hinges with s  20" x 17" oval vitreous china countertop lavatory with overflow. Faucet is 4" o.c. single lever ADA                                          |               | V            | CW   |      | Supplies | Stops | Carrier | P-Trap  | Drain | Other |
| P-1<br>P-2 | Type  Accessible Lavatory, Countertop                                                                                                   | Proflo #1203WH<br>with PFTS2000wh<br>Proflo<br>#PF20174BS with<br>Peerless<br>#PFLL1011MBN | elongated bowl 1.6 gpf gravity type with Fluidmaster 400A flush mechanicsm and bolt covers. Provide solid plastic open front elongated white heavy duty seat with integral bumpers, external check hinges with s  20" x 17" oval vitreous china countertop lavatory with overflow. Faucet is 4" o.c. single lever ADA                                                                                        |               | 2"           |      |      |          |       |         |         |       |       |
|            | Accessible Lavatory, Countertop                                                                                                         | #PF20174BS with<br>Peerless<br>#PFLL1011MBN                                                | with overflow. Faucet is 4" o.c. single lever ADA                                                                                                                                                                                                                                                                                                                                                            |               |              | 1/2" |      | 2        | 1     |         |         |       | 3     |
|            |                                                                                                                                         |                                                                                            | handle, copper waterways, chrome finish.                                                                                                                                                                                                                                                                                                                                                                     |               |              |      |      |          |       |         |         |       |       |
| P-3        |                                                                                                                                         |                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                              | 2"            | 1 1/2" or 2" | 1/2" | 1/2" | 2, 4     | 1     |         | 1       | 1     | 1     |
|            | , , , ,                                                                                                                                 | with PFTS2000wh                                                                            | Floor-mounted standard height white vitreous china elongated bowl 1.6 gpf gravity type with Fluidmaster 400A flush mechanicsm and bolt covers. Provide solid plastic open front elongated white heavy duty seat with integral bumpers, external check hinges w                                                                                                                                               |               | 2"           | 1/2" |      | 2        | 1     |         |         |       | 3     |
| P-4        |                                                                                                                                         | Symmons SYM-3-<br>325                                                                      | Self-closing single temperature metering valve with fixed head                                                                                                                                                                                                                                                                                                                                               |               |              | 1/2" |      |          |       |         |         |       |       |
|            | Accessible Dual Height Water                                                                                                            | Halsey Taylor                                                                              | 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.                                                                                                                                                                                                               |               |              |      |      |          |       |         |         |       |       |
| P-5        | Cooler with Bottle Filler                                                                                                               | #HAC8BLFSQ                                                                                 | Provide bottle filler in backsplash.                                                                                                                                                                                                                                                                                                                                                                         | 2"            | 1 1/2" or 2" | 1/2" | 1/2" | 2        | 1     |         | 1       |       | 1     |
|            |                                                                                                                                         | Guardian G1814BC<br>American Standard                                                      | Wall-mounted stainless steel bowl with cover, paddle valve, thermostatic mixing valve. White vitreous china wall hung with 3/4" top spud, 1.0 gallon siphon jet flushing action. Mount rim per Architectural elevation.                                                                                                                                                                                      | 2"            | 2"           | 1/2" | 1/2" | 3        |       | 1       |         |       |       |
| P-8        | Janitor's Sink                                                                                                                          |                                                                                            | 24" x 24" x 10" white molded stone with stainless steel integral drain, chrome plated brass wall mounted faucet with VB, integral stops, adjustable wall brace, pail hook, 3/4" hose threaded spout and stainless steel wall guards.                                                                                                                                                                         | 2" or 3"      | 2"           | 1/2" | 1/2" |          |       |         | 2       |       | 2     |
|            | Flexible braided stainless stee     Flexible braided compression I     Sloan Royal 186 1.0 gpf diaphi     Frovide tempering valve below | hose.<br>ragm type.                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                              |               |              |      | ı    | l        |       |         |         |       |       |
| Stops      | 1 - Angle handle compression                                                                                                            |                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                              |               |              |      |      |          |       |         |         |       |       |
|            | 1 - Steel tube floor-mounted in-wa<br>2 - Cast iron floor mount adjustabl                                                               |                                                                                            | loset                                                                                                                                                                                                                                                                                                                                                                                                        |               |              |      |      |          |       |         |         |       |       |
|            | 1 - PVC with deep escutcheon<br>2 - PVC<br>3 - deep seal PVC trap and 30" st                                                            | tandpipe.                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                              |               |              |      |      |          |       |         |         |       |       |
|            | Metal pop-up with tailpiece     Basket strainers in finish to ma     Chrome drain cover.                                                | atch faucet, tailpiece                                                                     | э.                                                                                                                                                                                                                                                                                                                                                                                                           |               |              |      |      |          |       |         |         |       |       |

3 - Open front seat in public restrooms

4 - Provide Watts Tempering valve, max 110 Deg. F

|        |         |         |           |     |        | H      | IVA  | C SY | STE  | EM SCH   | HEDU  | LE  |     |      |       |          |      |     |            |
|--------|---------|---------|-----------|-----|--------|--------|------|------|------|----------|-------|-----|-----|------|-------|----------|------|-----|------------|
|        |         |         |           |     |        |        | Α    | HU   |      |          |       |     |     |      | OL    | JTDOOR ( | UNIT |     |            |
| MARK   | MFGR    | NOM TON | MODEL     | CFM | OA CFM | E.S.P. | HP   | SMBH | TMBH | HEAT CAP | ELEC  | FLA | OCP | MFGR | MODEL | ELEC     | FLA  | OCP | SEER NOTES |
|        |         |         |           |     |        |        |      |      |      |          |       |     |     |      |       |          |      |     |            |
| AHU/CU | GOODMAN | 2       | ARUF25B14 | 750 | 130    | 0.4    | 0.33 | 16.9 | 23.0 | 6 KW     | 240/1 | 27  | 40  | NONE |       |          |      |     |            |
|        |         |         |           |     |        |        |      |      |      |          |       |     |     |      |       |          |      | T I |            |

### COOLING EAT = 80/67/95

|         |       |       |      | W                   | ATER HE | ATER S            | CHEDUI             | LE                            |              |           |                      |       |
|---------|-------|-------|------|---------------------|---------|-------------------|--------------------|-------------------------------|--------------|-----------|----------------------|-------|
| MARK    | MFGR  | MODEL | FUEL | VOLTAGE/PH/<br>AMPS | INPUT   | EFFICIENCY<br>/PF | GALLONS<br>STORAGE | GPH<br>RECOVERY<br>@ 80° RISE | FLUE<br>TYPE | EXPANSION | CIRCULATOR<br>GPM/HD | NOTES |
|         |       |       |      |                     |         |                   |                    |                               |              |           |                      |       |
| WH - L1 | EEMAX | EMT-1 | ELEC | 120/1/12            | 1.4 KW  | 0.95              | 1.5                | 5                             | N/A          |           |                      |       |
| WH - L2 | EEMAX | EMT-4 | ELEC | 120/1/12            | 1.4 KW  | 0.95              | 3.5                | 5                             | N/A          |           |                      |       |

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

ACCESSORIES:

1 - DEEP TRAP, ADJUSTABLE GRATE 2 - USE WIDE FLANGE MODEL WHERE IN WOOD CONSTRUCTION

3 - INTERNAL STRAINER

|      |              | AIR TER    | MINAL DE | VICE S | CHEDULI    | E     |
|------|--------------|------------|----------|--------|------------|-------|
| MARK | MANUFACTURER | MODEL      | FINISH   | DAMPER | FRAME TYPE | NOTES |
| Α    | AIR MATE     | A140, A190 | WHITE    | YES    | GYP BD     |       |
| В    | AIR MATE     | 170        | WHITE    | NO     | GYP BD     |       |
| С    | AIR MATE     | 240 VO     | WHITE    | YES    | GYP BD     |       |
|      |              |            |          |        |            |       |

|              |                                    | FAN SC  | HEDU    | JLE  |     |       |      |        |         |               |
|--------------|------------------------------------|---------|---------|------|-----|-------|------|--------|---------|---------------|
|              |                                    |         |         |      |     |       | ELE  | CTRICA | \L      |               |
|              |                                    |         |         |      | FAN | VOLT  | FL   |        |         | CONFIGURATION |
| MARK         | MFGR                               | MODEL   | CFM     | ESP  | HP  | S/ PH | Α    | OCP    | WIRING  | N - NOTES     |
| EF - 1, 2, 3 | GREENHECK                          | SP-A390 | 210-280 | 0.25 | Fr. | 120/1 | 3    | 15     | (3) #12 | ceiling, 1, 2 |
|              |                                    |         |         |      |     |       |      |        |         |               |
| NOTES:       | 1-CEILING GRILLI<br>2-BD DAMPER, D |         | CONTROL | LER, | WAL | L/ROC | )F C | AP     |         |               |

|      |                     |               | Luminaire Schedule - Uni | ts and Bui | Idings |                              |                           |
|------|---------------------|---------------|--------------------------|------------|--------|------------------------------|---------------------------|
| MARK | DESCRIPTION         | MFGR          | MODEL                    | MOUNTING   | FINISH | LAMPS                        | NOTES                     |
| Α    | Strip Light         | Lithonia      | CSS L48 4000LM           | surface    | white  | 4300 Lumen 4000K             | Wet Location              |
| В    | Strip Light         | Lithonia      | CSS L48 4000LM           | surface    | white  | 4300 Lumen 4000K             | w/built-in motion sensor  |
| С    | 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     |                           |
| Е    | 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 15 ft pole   |
| SL2  | Exterior Pole       | McGraw Edison | GLEON-AF-01-LED-E1-SL4   | pole       | bronze | (2) 59W 5922 Lumen 4000K led | provide with 15 ft pole   |
| SL3  | Exterior Pole       | McGraw Edison | GLEON-AF-01-LED-E1-T3    | pole       | bronze | 59W 6235 Lumen 4000K led     | provide with 15 ft pole   |
| SL4  | Bollard             | McGraw Edison | BRT6-A2-740-U-T3         | bollard    | bronze | 11W 1075 Lumen 4000K led     | 3 FT w/ WP-GFI receptacle |
|      |                     |               |                          |            |        |                              |                           |

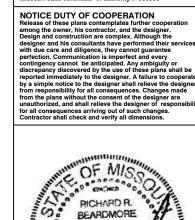
|                        |         | EL   | ECTR    | ICAL | PA  | NE   | EL SC    | HED      | ULE   |             |             |
|------------------------|---------|------|---------|------|-----|------|----------|----------|-------|-------------|-------------|
| PANEL: P               |         |      | LOCATIO | N:   |     |      |          |          |       | MOUNTING:   | SURFACE     |
| BUS: 200 A             | MA INS: | MLO  | VOLTAG  | Ε    | 120 | /240 |          | PHA SE/V | VIRE: | 1 Ph 3 Wire | KAIC: 42    |
|                        | WA      | ATTS |         |      | PC  | DLE  |          |          | WA    | TTS         |             |
| DESCRIPTION            | Α       | В    | BRKR    | WIRE |     |      | WIRE     | BRKR     | Α     | В           | DESCRIPTION |
| POOL PUMP              | 2200    |      | 30      | 10   | 1   | 2    | 12       | 20       | 1500  |             | WH-L1       |
| 5 HP- VERIFY           |         | 220  | 2P      | 10   | 3   | 4    | 12       | 20       |       | 800         | RECEPTACLES |
| POOL PUMP              | 1300    |      | 20      | 12   | 5   | 6    | 12       | 20       | 1000  |             | LTS/RECEPTS |
| 3 HP - VERIFY          |         | 130  | 2P      | 12   | 7   | 8    | 12       | 20       |       | 600         | LTS/RECEPTS |
| AHU                    | 3200    |      | 40      | 8    | 9   | 10   | 12       | 20       | 200   |             | POOL HEATER |
|                        |         | 320  | 2P      | 8    | 11  | 12   | 12       | 20       |       | 1500        | WH-L2       |
| SPACE                  |         |      |         |      | 13  | 14   | 12       | 20       | 600   |             | RECEPTACLES |
| SPACE                  |         |      |         |      | 15  | 16   | 12       | 20       |       | 200         | LIGHTING    |
| COOKING STATION        | 600     |      | 20      | 12   | 17  | 18   | 10       | 20       | 1000  |             | LIGHTING    |
| LIGHTING               |         | 70   | 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   | 11600   | 1050 | 0       |      | F   | EEDE | R LOAD-1 | VATTS    |       |             |             |
| CONNECTED LOAD-AMPS    | 97      | 8    | 3       |      | F   | EEDE | ER LOAD- | AMPS     |       |             |             |
| CONTINUOUS LOAD        |         |      |         |      |     | FE   | EDER WI  | RE       |       |             |             |
| RECEPTACLES            |         |      |         |      |     | F    | EEDER OO | P        |       |             | 200 A       |
| NON-CONTINUOUS LOAD    |         |      |         |      |     |      |          |          |       |             |             |
| OTHER DIVERSIFIED LOAD |         |      | @       | 0    |     |      |          |          |       |             |             |



RELEASED FOR CONSTRUCTION
As Noted on Plans Review

architects, p.a. 7133 west 95th street suite 200 overland park, ks 66212 ph: 913-649-7557

www.escarchitects.com elswood smith carlson architects, pa. Kansas state certificate of authority # A-142 Missouri state certificate of authority # 000338





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2 CITY REVIEW 11-22-21 3 CITY COMMENTS 01-04-22

> Weston E. Coble KS# 6705

MO# A-2016011206 The Professional Architects seal affixed to this sheet applies only to material and items shown on this sheet. All drawings, instruments, or other documents not exhibiting this seal shall not be considered prepared by this architect, and this architect expressly disclaims any and all responsibility for such plan, drawings or documents not exhibiting this seal.

01/14/2021 revised design by RRB
drawn by CAD
struct. by APEX

**SCHEDULES** 

Weston E. Coble Architect KS# 6705 MO# A-2016011206

01/14/2021 revised

CONSULTING ENGINEER

3639 SW Summerfield Drive, Suite A Topeka, Kansas 66614-3974

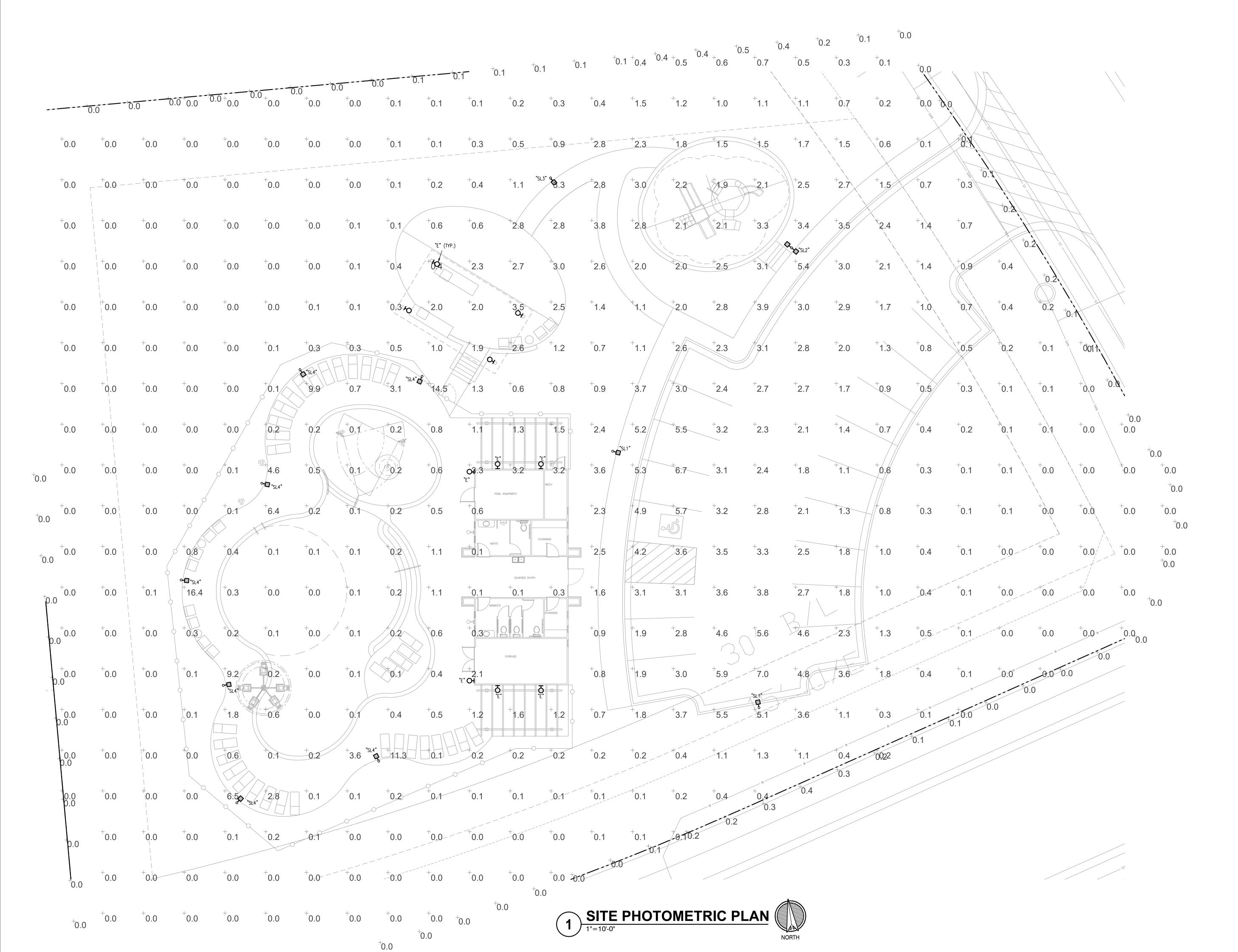
8625 College Boulevard, Suite 102

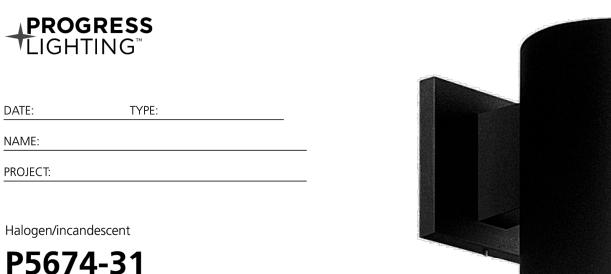
Overland Park, Kansas 66210 Telephone: (785) 233-3232 Email: Isapa@Isapa.com

LSA PROJECT NO. 2004036

design by RRB drawn by CAD struct. by APEX

Site Photometric Plan





Halogen/incandescent

### P5674-31

### Cylinder

5" wall cylinder. The P5674 Series are ideal for a wide variety of interior and exterior applications including residential and commercial. This modular approach results in an encapsulated luminaire that unites performance, cost and safety benefits.

- Black finish. Powder coat finish.
- Ideal for a wide variety of interior and exterior applications. Die-cast aluminum wall brackets and heavy duty aluminum framing.

Category: Outdoor Finish: Black (powder coat paint) **Construction:** Aluminum Construction

included

Back plate covers a standard 4" octagonal recessed outlet box 4.5" W.



H/CTR: 2-1/2"

E26 base porcelain socket

| Glass/Shade: Metal shade      |                     |                              |                            |
|-------------------------------|---------------------|------------------------------|----------------------------|
| MOUNTING                      | ELECTRICAL          | LAMPING                      | ADDITIONAL INFORMATION     |
| Wall mounted                  | Pre-wired           | Quantity:                    | UL-CUL Wet location listed |
| Mounting plate for outlet box | 6" of wire supplied | One 75w max. PAR-30 or BR-30 | 1 year warranty            |

120 V

PROGRESS LIGHTING™

TYPE: **"E"** NAME: PROJECT:

Halogen/incandescent

### P5641-20

### Cylinder

6" downlight wall cylinders are ideal for a wide variety of interior and exterior applications including residential and commercial. The aluminum Cylinders offers a contemporary design with its sleek cylindrical form and elegant Antique Bronze finish, perfect for today's inspired exteriors. Modern details feature a die-cast aluminum wall bracket and heavy-duty aluminum framing - resulting in an impeccable modern accent that adds panache and H/CTR: 4-1/2" sophistication to your outdoor spaces.

Antique Bronze finish.

 Interior finish matches exterior finish. • Ideal for a wide variety of interior and exterior applications.

One 250w PAR-38 or 150w BR-40.

Category: Outdoor Finish: Antique Bronze (powder coat paint)

| Construction: Cast aluminum Construction |  |
|------------------------------------------|--|
|                                          |  |
|                                          |  |
|                                          |  |

| MOUNTING                                                                                                                              | ELECTRICAL                   | LAMPING                                        | ADDITIONAL INFORMATION     |
|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------|----------------------------|
| Wall mounted                                                                                                                          | Pre-wired                    | Quantity:                                      | UL-CUL Wet location listed |
| Mounting strap for outlet box included  Back plate covers a standard 4" octagonal recessed outlet box  4.5" W., 4.5" ht., 2.93" depth | 6" of wire supplied<br>120 V | One 250w max. PAR-38 E26 base porcelain socket | 1 year warranty            |

701 Millennium Blvd. Greenville, South Carolina 29607

www.progresslighting.com

Rev. 05/19

701 Millennium Blvd. Greenville, South Carolina 29607

COOPER Lighting Solutions

www.progresslighting.com

Width: 6"

Height: 12"

Depth: 8-7/8"

Rev. 05/19

PS500048EN page 1 October 8, 2021 6:48 PM

| Project     | Catalog | Туре | "SL1", "SL2",<br>"SL3", "SL4" |
|-------------|---------|------|-------------------------------|
| Prepared by | Notes   | Date |                               |

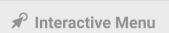


### **McGraw-Edison GLEON Galleon**

Area / Site Luminaire

**Product Features** 





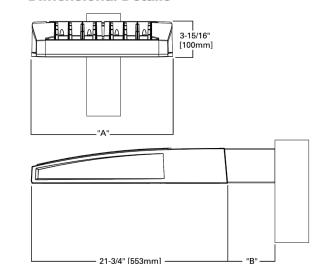
- Ordering Information page 2 Mounting Details page 3
- Optical Distributions page 4
- Product Specifications page 4
- Energy and Performance Data page 4 Control Options page 9

### **Quick Facts**

Lumen packages range from 4,200 - 80,800

(34W - 640W) Efficacy up to 156 lumens per watt

**Dimensional Details** 



**Product Certifications** 









Connected Systems

 WaveLinx Enlighted

| Number of<br>Light<br>Squares  | "A"<br>Width            | "B"<br>Standard<br>Arm Length | "B"<br>Extended<br>Arm Length <sup>1</sup> | "B"<br>Quick Mount<br>Arm Length | "B"<br>Quick Mount<br>Extended<br>Arm Length |
|--------------------------------|-------------------------|-------------------------------|--------------------------------------------|----------------------------------|----------------------------------------------|
| 1-4                            | 15-1/2"                 | 7"                            | 10"                                        | 10-5/8"                          | 16-9/16"                                     |
| 5-6                            | 21-5/8"                 | 7"                            | 10"                                        | 10-5/8"                          | 16-9/16"                                     |
| 7-8                            | 27-5/8"                 | 7"                            | 13"                                        | 10-5/8"                          |                                              |
| 9-10                           | 33-3/4"                 | 7"                            | 16"                                        | -                                | -                                            |
| NOTES:<br>For arm selection re | quirements and addition | onal line art, see Moun       | iting Details section.                     |                                  |                                              |

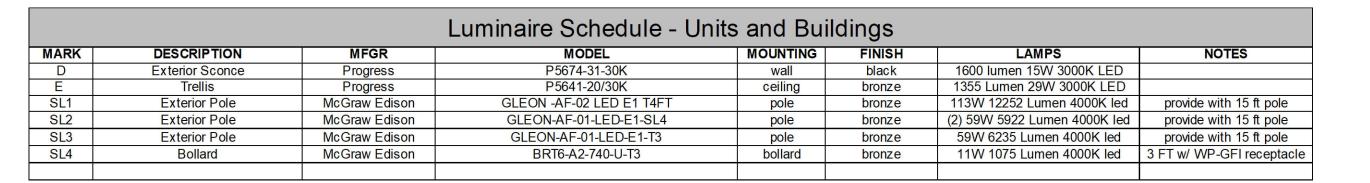
NOTES:

1. Visit <a href="https://www.designlights.org/search/">https://www.designlights.org/search/</a> to confirm qualification. Not all product variations are DLC qualified.

2. IDA Certified for 3000K CCT and warmer only.

**COOPER** PS500020EN page 1 August 2, 2021 5:15 PM

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                 | McGraw-Edison BRT6 Bollard Round LED Pedestrian Luminaire  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                 | Product Certifications                                     |
| <ul> <li>Interactive Menu</li> <li>Ordering Information</li> <li>Product Specification</li> <li>Optical Distributions</li> <li>Energy and Performa</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NS page 2 page 2                                                | STEP STEP STEP STEP STEP STEP STEP STEP                    |
| 4 Optical Distributions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 42"                                                             |                                                            |
| <ul> <li>Lumen packages range f</li> <li>Efficacy up to 122 lumen</li> <li>Zero uplight on all config</li> <li>Dimensional Details</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | rom 560 - 4400 (5W - 49W)<br>s per watt<br>jurations            | tion                                                       |
| <ul><li>Lumen packages range f</li><li>Efficacy up to 122 lumen</li><li>Zero uplight on all config</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | rom 560 - 4400 (5W - 49W)<br>s per watt                         | <b>tion</b><br>Height Weight                               |
| <ul> <li>Lumen packages range f</li> <li>Efficacy up to 122 lumen</li> <li>Zero uplight on all config</li> <li>Dimensional Details</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | rom 560 - 4400 (5W - 49W)<br>s per watt<br>jurations            | Height Weight                                              |
| <ul> <li>Lumen packages range f</li> <li>Efficacy up to 122 lumen</li> <li>Zero uplight on all config</li> <li>Dimensional Details</li> <li>Side View</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | from 560 - 4400 (5W - 49W) s per watt jurations  GFI Op         | Height Weight  30" 7.2lb (3.3kg)                           |
| <ul> <li>Lumen packages range f</li> <li>Efficacy up to 122 lumen</li> <li>Zero uplight on all config</li> <li>Dimensional Details</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | rom 560 - 4400 (5W - 49W) s per watt jurations  GFI Op  [150mm] | Height Weight  30" 7.2lb (3.3kg)                           |
| <ul> <li>Lumen packages range f</li> <li>Efficacy up to 122 lumen</li> <li>Zero uplight on all config</li> <li>Dimensional Details</li> <li>Side View</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | from 560 - 4400 (5W - 49W) s per watt jurations  GFI Op         | Height Weight  30" 7.2lb (3.3kg)                           |
| • Efficacy up to 122 lumen • Zero uplight on all config  Dimensional Details Side View    The property of the | rom 560 - 4400 (5W - 49W) s per watt jurations  GFI Op  [150mm] | Height Weight  30" 7.2lb (3.3kg)  25mm]  36" 8.7lb (4.0kg) |



| STATISTICS   |          |         |        |         |         |
|--------------|----------|---------|--------|---------|---------|
| Descriptio   | n Avg    | Max     | Min    | Max/Min | Avg/Min |
| PARKING LO   | 7 2.6 FC | 7.0 FC  | 0.3 FC | 23.3:1  | 9.0:1   |
| PROPERTY LIN | E 0.1 FC | 0.5 FC  | 0.0 FC | N/A     | N/A     |
| POOL ARE     | 4 1.5 FC | 16.4 FC | 0.0 FC | N/A     | N/A     |
| SIT          | E 1.1 FC | 16.4 FC | 0.0 FC | N/A     | N/A     |

# elswood carlson

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

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Missouri state certificate of authority # 000338

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NOTICE DUTY OF COOPERATION
Release of these plans contemplates further cooperation
among the owner, his contractor, and the designer.
Design and construction are complex. Although the
designer and his consultants have performed their services
with due care and diligence, they cannot guarantee
perfection. Communication is imperfect and every
contingency cannot be anticipated. Any ambiguity or
discrepancy discovered by the use of these plans shall be
reported immediately to the designer. A failure to cooperate
by a simple notice to the designer hall relieve the designer
from responsibility for all consequences. Changes made
from the plans without the consent of the designer are
unauthorized, and shall relieve the designer of responsibili
for all consequences arriving out of such changes.
Contractor shall check and verify all dimensions.



# ARMS VIEW SUMMIT POOL HOUSE

MISSOU

SUMMIT,

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2 CITY REVIEW

Weston E. Coble KS# 6705 MO# A-2016011206

01/14/2021

revised design by RRB drawn by CAD struct. by APEX

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**Site Details and Schedules** 

