KCC STORES WAREHOUSE 2010 N. RULON WHITE BLVD. FARR WEST, WEBER COUNTY, UT 84404



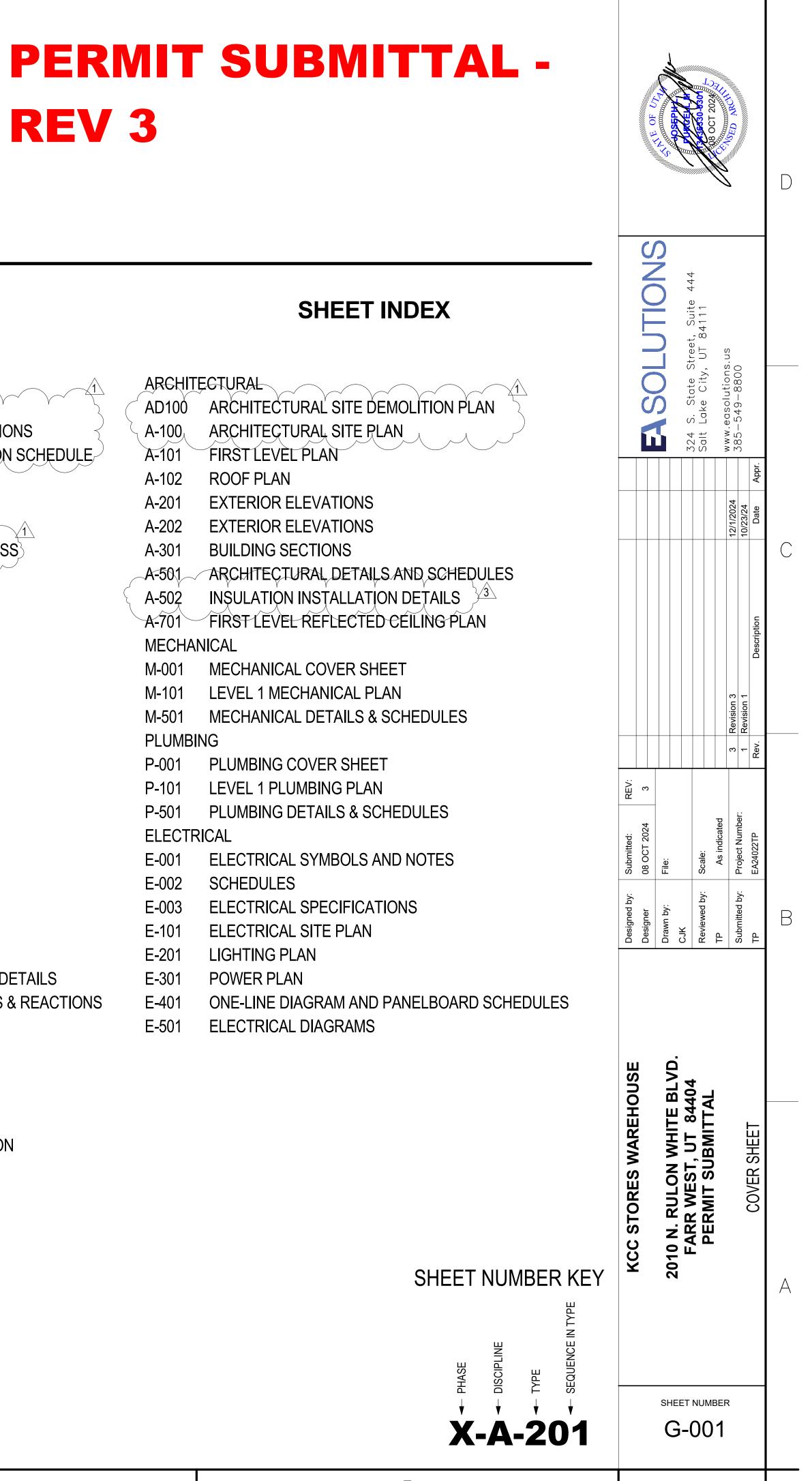


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SITE LOCATION PLAN

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ABBREVIATIONS/ACRONYMS

	an ala an la alt	
A.B.	anchor bolt	FD
A/C	air conditioning	FDN
ABV	above	FE
ADA	americans with disabilities act	FEC
ADD'L	additional	FGL
AFF	above finished floor	FHS
ALT	alternate	FIN
ALUM	aluminum	FIN. FLR
ANOD	anodized	FP
-		
ANSI	american national standards institute	FRT
APPR	approved	FS
APPROX	approximate	FT
ARCH	architect(ural)	FTG
ASPH	asphalt	GA
AUTO	automatic	GALV
BD	board	GB
BLDG	building	GD
BLK	block	GF
		-
BO	bottom of	GI
BRG	bearing	GL
BSMT	basement	GLB
BTWN	between	GYP. BD.
CF	cubic foot	HAS
CG	center of gravity	HB
Cl	cast iron	HC
CJ	construction joint	HCAP
CL	center line or column line	HD
CLG		HDR
	ceiling	
CLR	clear(ance), category of logistical responsibility	HDWR
CMU	concrete masonry unit	HM
COL	column	HOR
CONC	concrete	HR
CONST	construction	HRDWD
CONT	continuous, continue	HT
CPT	carpet	HTG
CRS	course(s)	HVAC
CSMT	casement	HWH
CY	cubic yard	ID
DE	door elevation	INCL
DET	detail	INSUL
DF	drinking fountain	INT
DF-L	douglas fir	JSN
DIA	diameter	JT
DIM	dimension	LAM
DIV	division	LAV
DL	dead load	LF
DOD	department of defense	LH
DPR	dispenser	LL
DR	door	LP
DWB	deformed weldable bar	LTL
DWG	drawing	LVL
E	east	LW
EA	each	MAS
EJ	expansion joint	MAT'L
ELEC	electrical	MAX
ELEV, EL	elevation	MB
EMT	electrical metallic tubing	MBR
EN	edge nail	MC
EQ	equal	MECH
EQUIP	equipment	MED
EST	estimate	MFR
EX	existing	MIN
EXP	expansion	MISC
EXT	extinguisher	MLB
fc	concrete 28 day strength	MMB
fm	masonry strength	MO

floor drain
foundation
fire extinguisher
fire extinguisher cabinet
fiberglass fire hose station
finish(ed)
finished floor elevation
fireplace
fire-retardant treated
footing step
feet
footing
gage, guage
galvanized
grab bar grade(ing)
government furnished
government installed
glass
glue laminated timber beam
gypsum wall board
headed anchor stud
hose bib
hollow core
handicap
holdown
header
hardware hollow metal
horizontal
hour
hardwood
height
heating
heating/ventilating/air cond.
hot water heater
inside diameter
include(d), (ing)
insulate(d), (ion) interior
joint schedule number
joint
laminate(d)
lavatory
linear feet
left hand
live load
low pressure
lintel
laminated veneer lumber
lightweight
masonry material(s)
maximum
machine bolt
member
medicine cabinet
mechanic(al)
medium
manufacture(r)
minimum
miscellaneous
microllam beam membrane
memorane masonry opening
mason y opening

	MTLL MULL NON NOTS C. OOO OO PP CP PP ST PT PT CR REAR REAR S S S S S S S S S S S S S S S S S S S
,	W/O
	WD
,	W⊦ WP WR
,	WR WS WSC1
	WWF

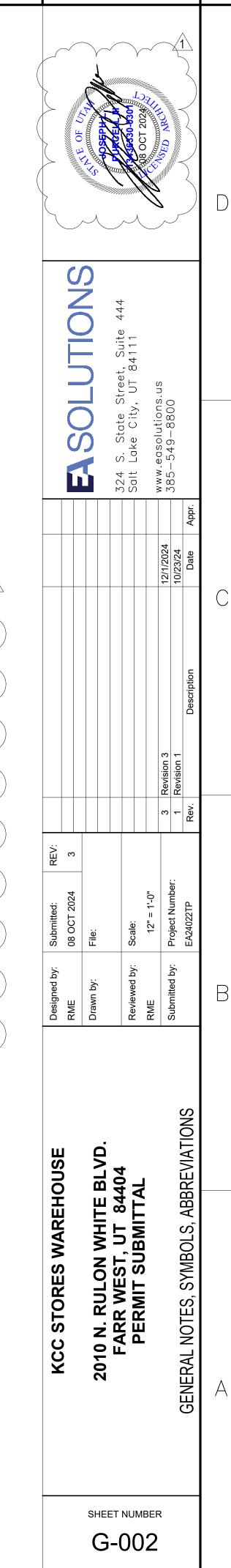
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5.

		STANDARD	SYMBOLS
	metal		ROOM CODE
-	mullion		Name
	north	ROOM DESIGNATION	Room Number
	not in contract		150 (Desired Area) COMMENT
	number		
	nominal	DOOR DESIGNATION	(101A)
	not to scale		
	on center	WINDOW DESIGNATION	$\langle A \rangle$
	outside diameter	WINDOW DESIGNATION	\sim
	overhead		1
	opening		
	opposite	ELEVATION, (VIEW)	2 (A1.1) 4
	optimum		2 41.1 4
	particle board		3
	polychlorinated biphenyls	ELEVATION, (DATUM)	
	plate		
	panel		
	pounds per square inch	NORTH ARROW	
	pounds per square inch gauge		NORTH
	pressure treated or post tension		
	painted		
	-	DETAIL	
	partition		Alu
	quantity		
	riser(s), radius	DRAWING TITLE	View Name
	radius		1/8" = 1'-0 "
	Rand Eardley & Associates		
F'D	reinforced	REVISION DESIGNATION	\wedge
D	required	REVISION DESIGNATION	
	revised		
	room		
	rough opening	GRID HEAD	(0)
	south		\bigcirc
	stainless steel		
ED	schedule(ed)		
Г	section		
	square feet		
	sheet		
	similar	LINET	YPES
2	specifications		
	square	МАТСН	
	standard		
	storage		
JC	structure(al)	PROPERTY	
	shear wall		
	tread(s)		
	top of	GRID	
	top of curb		
	typical		
	underwriters laboratories	HIDDEN	
	unless noted otherwise		
	vapor barrier	REMOVAL	
F	vinyl composition tile		
	vertical		
	west	OVERHEAD	
	with		
	without		
	water closet		
	wood		
	wide flange		
	water proof(ing)		
	water repellant		
	wall step		FURAL MATERIALS
Т	wainscot	ANUTHEU	
:	welded wire fabric		7 77 77 77 77 77 77 77 77 77 77 77 77 7
		STEEL STUD	

STEEL STUD	
GYPSUM BOARD CEILING / WALL	
LAY-IN ACOUSTICAL CEILING	
CONCRETE	
CARPET / TILE (SECTION)	
PLYWOOD (SECTION)	
MASONRY WALL	
TEMPORARY WALL	



GENERAL NOTES

ALL WORK SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE (2021 EDITION) AND ALL LOCAL CODES, INCLUDING ANY AND ALL COVENANTS, RULES AND REGULATIONS ADOPTED BY THE CITY OF FARR WEST, UT.

COORDINATION OF WORK: THE GENERAL CONTRACTOR SHALL COMPARE ARCHITECTURAL SPECIFICATIONS AND DRAWINGS WITH MECHANICAL AND ELECTRICAL SPECIFICATIONS AND DRAWINGS. IF THERE ARE ANY DISCREPANCIES BETWEEN THEM, HE SHALL REPORT THE SAME TO THE ARCHITECT IN WRITING AND OBTAIN FROM THE ARCHITECT WRITTEN INSTRUCTIONS FOR NECESSARY CHANGES.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE DRAWINGS AND DIMENSIONS AND CONDITIONS AT THE SITE.

4. ALL MATERIALS SHALL BE NEW (U.N.O.) AND BOTH MATERIALS AND WORKMANSHIP SHALL BE OF BEST QUALITY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY, SECURITY AND PROTECTION IN AND AROUND THE JOB SITE AND ADJACENT PROPERTIES (IF APPLICABLE).

ALL DETAILS AND NOTES ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSE WHERE UNLESS NOTED OR SHOWN OTHERWISE. CONSTRUCTION NOT SPECIFICALLY SHOWN, SHALL BE ACCOMPLISHED AS PER MINIMUM REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (2021 EDITION).

THE CONTRACTOR SHALL REVIEW, APPROVE AND VERIFY ALL SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND SIMILAR SUBMITTALS TO ASSURE THEY COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND SIMILAR SUBMITTALS SUBMITTED TO THE ARCHITECT WHICH HAVE NOT BEEN REVIEWED, APPROVED, VERIFIED, STAMPED AND SIGNED BY THE GENERAL CONTRACTOR WILL BE RETURNED TO THE GENERAL CONTRACTOR WITHOUT ACTION BY THE ARCHITECT. THE ARCHITECT WILL REVIEW THE SHOP DRAWINGS FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT. THIS REVIEW BY THE ARCHITECT SHALL NOT BE CONSTRUED AS APPROVAL THE CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ERRORS AND OMISSIONS IN SHOP DRAWINGS, PRODUCT DATA, SAMPLES OR SIMILAR SUBMITTALS BY THE ARCHITECT'S REVIEW.

STRUCTURES UNDER CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE PROVIDED WITH NOT FEWER THAN ONE APPROVED PORTABLE FIRE EXTINGUISHER IN ACCORDANCE WITH IBC SECTION 906 AND SIZED FOR NOT LESS THAN ORDINARY HAZARDS AS FOLLOWS PER IBC 3309.1: ON ALL FLOOR LEVELS WHERE COMBUSTIBLE MATERIALS HAVE ACCUMULATED, IN EVERY STORAGE AND CONSTRUCTION SHED, ADDITIONAL PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED WHERE SPECIAL HAZARDS EXIST, SUCH AS THE STORAGE AND USE OF FLAMMABLE AND COMBUSTIBLE LIQUIDS.

CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED AND PLACED SO AS NOT TO ENDANGER THE PUBLIC, THE WORKERS OR ADJOINING PROPERTY FOR THE DURATION OF THE CONSTRUCTION PROJECT PER IBC 3301.2.

PROVIDE PERMANENT CERTIFICATE ON WALL IN THE SPACE WHERE SPACE CONDITIONING EQUIPMENT IS INSTALLED, A UTILITY ROOM OR ANOTHER APPROVED LOCATION PER ICCC C401.3 SHOWING R-VALUES OF INSULATION INSTALLED IN OR ON CEILINGS, ROOFS, WALLS, FOUNDATIONS AND SLABS, BASEMENT WALLS, CRAWL SPACE WALLS AND FLOORS AND DUCTS OUTSIDE CONDITIONED SPACES, AND RESULTS FROM ANY BUILDING ENVELOPE AIR LEAKAGE TESTING.

PLANS PROVIDE ALL INFORMATION WITH WHICH COMPLIANCE CAN BE DETERMINED FOR THE BUILDING ENVELOPE AND DOCUMENTS WHERE EXCEPTIONS TO THE STANDARD ARE CLAIMED.

12. PLANS AND/OR CALCULATION PROVIDE ALL INFORMATION WITH WHICH COMPLIANCE CAN BE DETERMINED FOR ADDITIONAL ENERGY EFFICIENCY PACKAGE OPTIONS.

BUILDING OPERATIONS AND MAINTENANCE DOCUMENTS WILL BE PROVIDED TO THE OWNER. DOCUMENTS WILL COVER MANUFACTURERS' INFORMATION. SPECIFICATIONS. PROGRAMMING PROCEDURES AND MEANS OF ILLUSTRATING TO OWNER HOW BUILDING, EQUIPMENT AND SYSTEMS ARE INTENDED TO BE INSTALLED, MAINTAINED, AND OPERATED.

14. A THERMAL ENVELOPE CERTIFICATE WILL BE SUPPLIED AND COMPLETED BY AN APPROVED THIRD PARTY

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					ESTA
INSPECTION TASKS PRIOR TO WELDING (TABLE N5.4-1)	FABRICA QUALITY CO CONTINUOUS	ONTROL	SPECIAL INS QUALITY AS CONTINUOUS	SURANCE	NOTES
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	•			•	
WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE	•		•		
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE	•		•		1. PERIODIC - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE
MATERIAL IDENTIFICATION (TYPE / GRADE)		•		•	INSPECTIONS.
WELDER IDENTIFICATION SYSTEM 1		•		•	2. CONTINUOUS - PERFORM THESE TASKS FOR EACH WELDED JC OR MEMBER.
TI-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	_				3. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICA AND ERECTOR.
* JOINT PREPARATION	_				4. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS W
* DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	_	•		•	REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR
* CLEANLINESS (CONDITION OF STEEL SURFACES)	_				ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NI
* TACKING (TACK WELD QUALITY AND LOCATION)	_				SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBL FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN
* BACKING TYPE AND FIT (IF APPLICABLE)					ACCORDANCE WITH SECTION N6.
IT-UP OF CJP GROOVE WELDS OFHSS T-, Y-, AND K-JOINTS VITHOUT BACKING (INCLUDING JOINT GEOMETRY)					 QC AND QA INSPECTORS SHALL BE QUALIFIED IN ACCORDANC WITH AISC 360-16 CHAPTER N4.
· · · · ·	_				6. NONDESTRUCTIVE TESTING PERSONNEL SHALL BE QUALIFIED ACCORDANCE WITH AISC 360-16 CHAPTER N4.3.
* JOINT PREPARATIONS	- •			•	7. NONDESTRUCTIVE TESTING OF WELDED JOINTS SHALL COMPI
* DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	_				WITH AISC 360-16 CHAPTER N5.5a AND b. 8. OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPEC
* CLEANLINESS (CONDITION OF STEEL SURFACES)	_				OF IN-PROCESS AND COMPLETED WELDS SHALL BE THE PRIM,
* TACKING (TACK WELD QUALITY AND LOCATION)					METHOD TO CONFIRM THAT THE MATERIALS, PROCEDURES AN WORKMANSHIP ARE IN CONFORMANCE WITH THE CONSTRUCT
ONFIGURATION AND FINISH OF ACCESS HOLES		•		•	DOCUMENTS. FOR STRUCTURAL STEEL, ALL PROVISIONS OF
TT-UP OF FILLET WELDS	_				D1.1 / D1.1M STRUCTURAL WELDING CODE - STEEL FOR STATICALLY LOADED STRUCTURES SHALL APPLY.
* DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	-	•		•	9. THERMALLY CUT SURFACES OF ACCESS HOLES SHALL BE TES BY QA USING MT OR PT, WHEN THE FLANGE THICKNESS EXCE
* CLEANLINESS (CONDITION OF STEEL SURFACES)	_				2 IN. (50mm) FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS
* TACKING (TACK WELD QUALITY AND LOCATION)	_				EXCEEDS 2 IN. (50mm) FOR BUILT-UP SHAPES. ANY CRACK SH BE DEEMED UNACCEPTABLE REGARDLESS OF SIZE OR LOCAT
CHECK WELDING EQUIPMENT					10. WHEN REQUIRED BY APPENDIX 3, TABLE A-3.1, WELDED JOINT
¹ THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEI JOINT OR MEMBER CAN BE IDENTIFIED. STAMPS, IF USED, SHALL BE THE LO			HAS WELDED A	4	REQUIRING WELD SOUNDNESS TO BE ESTABLISHED BY RADIOGRAPHICS OR ULTRASONIC INSPECTION SHALL BE TES BY QA AS PRESCRIBED. REDUCTION IN THE RATE OF UT IS
INSPECTION TASKS DURING WELDING (TABLE N5.4-2)	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	PROHIBITED. 11. REDUCTION OF RATE OF ULTRASONIC TESTING - THE RATE OF
CONTROL AND HANDLING OF WELDING CONSUMABLES	_				IS ONLY PERMITTED TO BE REDUCED IF APPROVED BY THE EC AND THE AHJ PER AISC 360-16 CHAPTER N5.5e.
* PACKAGING	_	•		•	12. FOR STRUCTURES IN RISK CATEGORY II, WHERE THE INITIAL F
* EXPOSURE CONTROL					FOR UT IS 10%, THE NDT RATE FOR AN INDIVIDUAL WELDER OF WELDING OPERATOR SHALL BE INCREASED TO 100% SHOULD
NO WELDING OVER CRACKED TACK WELDS		•		•	REJECT RATE, THE NUMBER OF WELDS CONTAINING UNACCEPTABLE DEFECTS DIVIDED BY THE NUMBER OF WELD
	_				COMPLETED, EXCEEDS 5% OF THE WELDS TESTED FOR THE
* WIND SPEED WITHIN LIMITS	_	•		•	WELDER OR WELDING OPERATOR. A SAMPLING OF AT LEAST COMPLETED WELDS FOR A JOB SHALL BE MADE PRIOR TO
* PRECIPITATION AND TEMPERATURE					IMPLEMENTING SUCH AN INCREASE. WHEN THE REJECT RATE
* SETTINGS ON WELDING EQUIPMENT	_				THE WELDER OR WELDING OPERATOR, AFTER A SAMPLING OF LEAST 40 COMPLETED WELDS, HAS FALLEN TO 5% OR LESS, T
* TRAVEL SPEED	_				RATE OF UT SHALL BE RETURNED TO 10%. FOR EVALUATING REJECT RATE OF CONTINUOUS WELDS OVER 3 FT (1M) IN LEN
* SELECTED WELDING MATERIALS	_				WHERE THE EFFECTIVE THROAT IS 1 IN. (25mm) OR LESS, EAC
* SHIELDING GAS TYPE / FLOW RATE	_	•		•	IN. (300mm) INCREMENT OR FRACTION THEREOF SHALL BE CONSIDERED AS ONE WELD. FOR EVALUATING THE REJECT R
* PREHEAT APPLIED	_				ON CONTINUOUS WELDS OVER 3 FT (1M) IN LENGTH WHERE TH
* INTERPASS TEMPERATURE MAINTAINED (MIN. / MAX)	-				EFFECTIVE THROAT IS GREATER THAN 1 IN. (25mm), EACH 6 IN (150mm) OF LENGTH OR FRACTION THEREOF SHALL BE
* PROPER POSITION (F, V, H, OH)	_				CONSIDERED ON WELD. 13. ALL NDT PERFORMED SHALL BE DOCUMENTED. FOR SHOP
WELDING TECHNIQUES					FABRICATION, THE NDT REPORT SHALL IDENTIFY THE TESTED
* INTERPASS AND FINAL CLEANING	-				WELD BY PIECE MARK AND LOCATION IN THE PIECE. FOR FIEL WORK, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD
* EACH PASS WITHIN PROFILE LIMITATIONS	1	•		•	LOCATION IN THE STRUCTURE, PIECE MARK, AND LOCATION IN
* EACH PASS MEETS QUALITY REQUIREMENTS	-				PIECE. WHEN A WELD IS REJECTED ON THE BASIS OF NDT, TH NDT RECORD SHALL INDICATE THE LOCATION OF THE DEFECT
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	•		•		THE BASIS OF REJECTION
INSPECTION TASKS AFTER WELDING (TABLE N5.4-3)	CONTINUOUS		CONTINUOUS	PERIODIC	14. DEMAND CRITICAL WELDS SHALL MEET THE PROVISION FOUN AISC 341-16 AND WELDING METHODS, PROCEDURES AND QUA
WELDS CLEANED					CONTROL SHALL COMPLY WITH AWS D1.1 AND THE FOLLOWIN a. ARC STRIKES, GOUGES AND OTHER IMPERFECTIONS WIT
SIZE, LENGTH AND LOCATION OF WELDS		•		•	OR ADJACENT TO THE JOINT, SHALL BE REPAIRED OR
NELDS MEET VISUAL ACCEPTANCE CRITERIA					 REMOVED. b. PREHEAT AND INTER-PASS REQUIREMENTS AS OUTLINED
* CRACK PROHIBITION	-				SECTION 3.5.
* WELD / BASE-METAL FUSION	-				c. UNREPAIRED CRACKS, GOUGES, AND NOTCHES WILL NO PERMITTED IN THE JOINT AREA.
* CRATER CROSS SECTION	-				d. USE ELECTRODES WITH CHARPY V-NOTCH ABSORBED
* WELD PROFILES	- •		●		ENERGY EQUAL TO OR GREATER THAN 20 FT-LBS AT 20 DEGREES FAHRENHEIT UNDER AWS A5 CLASSIFICATION
* WELD PROFILES	-				METHODS, AND 40 FT-LBS AT 70 DEGREES FAHRENHEIT U TEST PROCEDURES PRESCRIBED IN APPENDIX X OF AISO
* UNDERCUT	-1				ACCEPTABLE ELECTRODES INCLUDE E70TG-K2, E71 T-1.
* POROSITY	-				
ARC STRIKES	•				4
(-AREA ¹					1
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP					-
HEAVY SHAPES ² BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)					-
REPAIR ACTIVITIES					1
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER					1
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE					1

¹WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3 IN. (75mm) OF THE WELD) ²AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.

STRUCTURAL STEEL SPECIAL INSPECTION SCHEDULE

ESTABLISHED PER 2021 IBC SECTION 1705.2.1 NOTES **INSPECTION TASKS PRIOR TO BOLTING (TABLE N5.6-1)** CONTINUOUS | PERIODIC | CONTINUOUS MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS \bullet • FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS • PERIODIC - OBSERVE THESE ITEMS ON A RANDOM BASIS. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT OPERATIONS NEED NOT BE DELAYED PENDING THESE • LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE) INSPECTIONS. CONTINUOUS - PERFORM THESE TASKS FOR EACH WELDED JOINT PROPER BOLTING PROCEDURES SELECTED FOR JOINT DETAIL • QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION • AND ERECTOR. AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NDT) FR • CONTINUOUS | PERIODIC | CONTINUOUS • • TING • • CONTINUOUS | PERIODIC | CONTINUOUS • IERAL STEEL SPECIAL INSPECTIO

- ADE AT THE FABRICATOR'S PLANT. THE QUALITY
- ROJECT SITE. THE QAI SHALL SCHEDULE THIS WO RMITTED TO COORDINATE THE INSPECTION FUNC UNCTIONS PERFORMED BY QC, THE APPROVAL O
- COMPLIANCE WITH THE DETAILS SHOWN ON THE RAME TO VERIFY COMPLIANCE WITH THE DETAILS + CONNECTION.
- MENT OF ANCHOR RODS AND OTHER EMBEDMENT AND LENGTH OF THE ANCHOR ROD OR EMBEDDE
- , AS APPROPRIATE, TO VERIFY COMPLIANCE WIT JOINT DETAILS AT EACH CONNECTION. IG (NDT), MAY BE WAIVED WHEN THE WORK IS PE
- QA. NDT OF WELDS COMPLETED IN AN APPROVE QA AGENCY SHALL REVIEW THE FABRICATOR'S N MIT A CERTIFICATE OF COMPLIANCE TO THE AHJ 5. AT COMPLETION OF ERECTION, THE APPROVED
- ARE IN ACCORDANCE WITH THE CONSTRUCTION NOT IN CONFORMANCE WITH THE CONSTRUCTION OR THE INSPECTOR OF THE OBLIGATION FOR TIME
- FABRICATOR OR ERECTOR, AS APPLICABLE. CONFORMANCE, OR MADE SUITABLE FOR ITS INTE 11. CONCURRENT WITH THE SUBMITTAL OF SUCH REPORTS TO THE AHJ, EOR OR OWNER, THE QA AGENCY SHALL SUBMIT TO THE (1) NONCONFORMANCE REPORTS

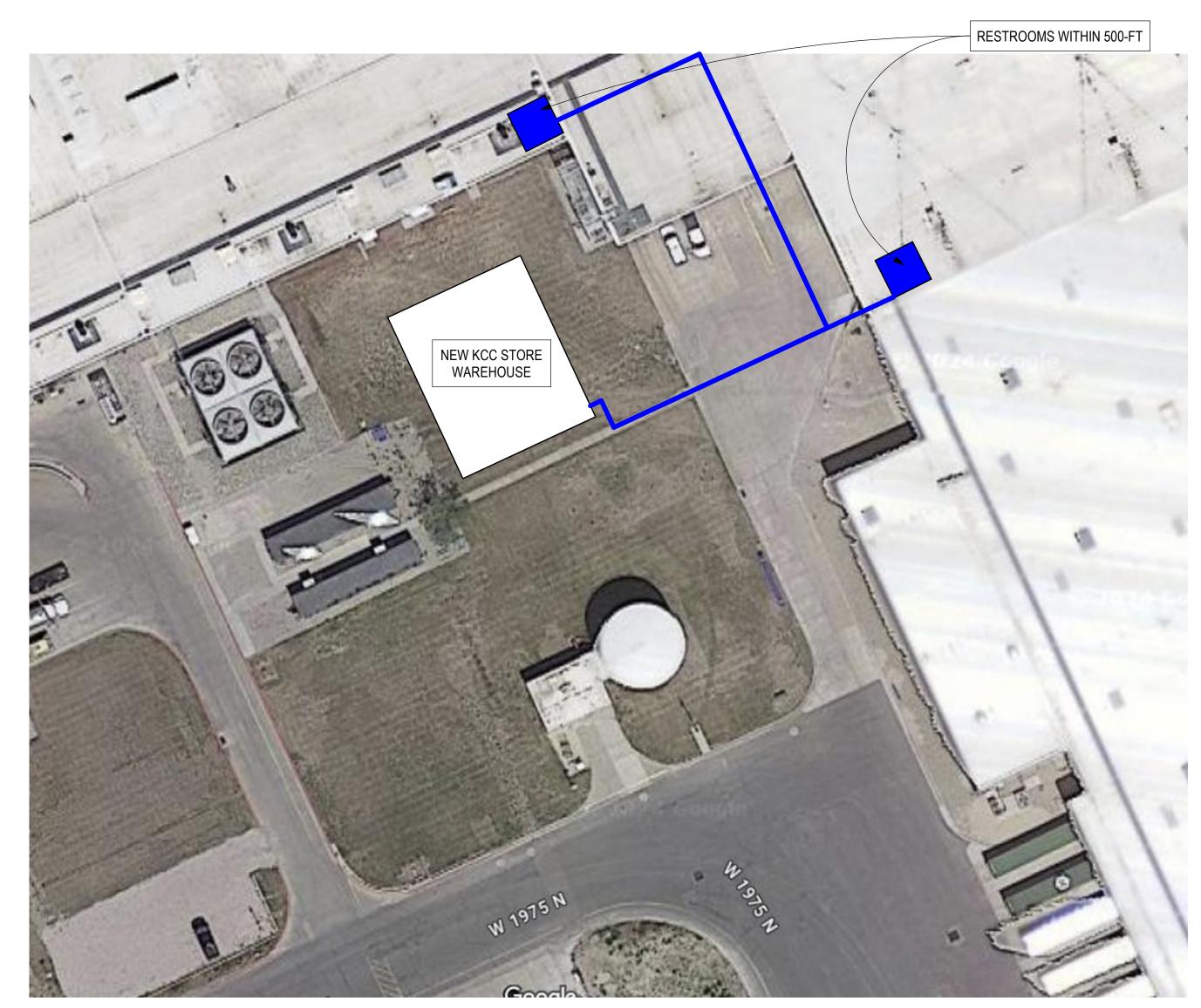
Sched18I - 2021 Structural Steel Special Inspection

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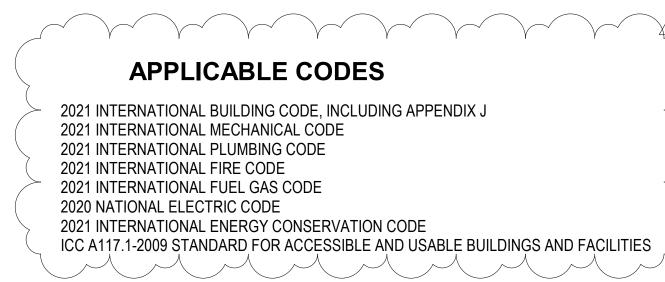
SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH SECTION N6.	PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENE COMPONENTS
QC AND QA INSPECTORS SHALL BE QUALIFIED IN ACCORDANCE WITH AISC 360-16 CHAPTER N4.	INSPECTION TASKS DURING BOLTING (TABLE N5.6-2)
NONDESTRUCTIVE TESTING PERSONNEL SHALL BE QUALIFIED IN ACCORDANCE WITH AISC 360-16 CHAPTER N4.3. NONDESTRUCTIVE TESTING OF WELDED JOINTS SHALL COMPLY	FASTENER ASSEMBLIES, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED
WITH AISC 360-16 CHAPTER N5.5a AND b. OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROCESS AND COMPLETED WELDS SHALL BE THE PRIMARY	JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION
METHOD TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP ARE IN CONFORMANCE WITH THE CONSTRUCTION	FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTAT
DOCUMENTS. FOR STRUCTURAL STEEL, ALL PROVISIONS OF AWS D1.1 / D1.1M STRUCTURAL WELDING CODE - STEEL FOR STATICALLY LOADED STRUCTURES SHALL APPLY. THERMALLY CUT SURFACES OF ACCESS HOLES SHALL BE TESTED	FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FRE EDGES
BY QA USING MT OR PT, WHEN THE FLANGE THICKNESS EXCEEDS 2 IN. (50mm) FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS	INSPECTION TASKS AFTER BOLTING (TABLE N5.6-3)
EXCEEDS 2 IN. (50mm) FOR BUILT-UP SHAPES. ANY CRACK SHALL BE DEEMED UNACCEPTABLE REGARDLESS OF SIZE OR LOCATION. WHEN REQUIRED BY APPENDIX 3, TABLE A-3.1, WELDED JOINTS REQUIRING WELD SOUNDNESS TO BE ESTABLISHED BY RADIOGRAPHICS OR ULTRASONIC INSPECTION SHALL BE TESTED BY QA AS PRESCRIBED. REDUCTION IN THE RATE OF UT IS PROHIBITED.	DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS
REDUCTION OF RATE OF ULTRASONIC TESTING - THE RATE OF UT IS ONLY PERMITTED TO BE REDUCED IF APPROVED BY THE EOR	GENE
AND THE AHJ PER AISC 360-16 CHAPTER N5.5e. FOR STRUCTURES IN RISK CATEGORY II, WHERE THE INITIAL RATE FOR UT IS 10%, THE NDT RATE FOR AN INDIVIDUAL WELDER OR WELDING OPERATOR SHALL BE INCREASED TO 100% SHOULD THE REJECT RATE, THE NUMBER OF WELDS CONTAINING UNACCEPTABLE DEFECTS DIVIDED BY THE NUMBER OF WELDS COMPLETED, EXCEEDS 5% OF THE WELDS TESTED FOR THE WELDER OR WELDING OPERATOR. A SAMPLING OF AT LEAST 20 COMPLETED WELDS FOR A JOB SHALL BE MADE PRIOR TO IMPLEMENTING SUCH AN INCREASE. WHEN THE REJECT RATE FOR THE WELDER OR WELDING OPERATOR, AFTER A SAMPLING OF AT LEAST 40 COMPLETED WELDS, HAS FALLEN TO 5% OR LESS, THE RATE OF UT SHALL BE RETURNED TO 10%. FOR EVALUATING THE REJECT RATE OF CONTINUOUS WELDS OVER 3 FT (1M) IN LENGTH WHERE THE EFFECTIVE THROAT IS 1 IN. (25mm) OR LESS, EACH 12 IN. (300mm) INCREMENT OR FRACTION THEREOF SHALL BE CONSIDERED AS ONE WELD. FOR EVALUATING THE REJECT RATE ON CONTINUOUS WELDS OVER 3 FT (1M) IN LENGTH WHERE THE EFFECTIVE THROAT IS 1 IN. (25mm), EACH 6 IN. (150mm) OF LENGTH OR FRACTION THEREOF SHALL BE CONSIDERED AS ONE WELD. FOR EVALUATING THE REJECT RATE ON CONTINUOUS WELDS OVER 3 FT (1M) IN LENGTH WHERE THE EFFECTIVE THROAT IS GREATER THAN 1 IN. (25mm), EACH 6 IN. (150mm) OF LENGTH OR FRACTION THEREOF SHALL BE CONSIDERED ON WELD. ALL NDT PERFORMED SHALL BE DOCUMENTED. FOR SHOP FABRICATION, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION IN THE PIECE. FOR FIELD WORK, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION IN THE PIECE. FOR FIELD WORK, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION IN THE PIECE. FOR FIELD WORK, THE NDT REPORT SHALL IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION IN THE PIECE. WHEN A WELD IS REJECTED ON THE BASIS OF NDT, THE	 QUALITY ASSURANCE (QA) INSPECTION OF FABRICATED ITEMS SHALL BE MAIL INTERRUPTION TO THE WORK OF THE FABRICATOR. QA INSPECTION OF THE ERECTED STEEL SYSTEM SHALL BE MADE AT THE PR WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH QC AND QA, IT IS PERI PERFORMED BY ONLY ONE PARTY. WHERE QA RELIES UPON INSPECTION FU REQUIRED. THE FABRICATOR'S QCI SHALL INSPECT THE FABRICATED STEEL TO VERIFY O CONNECTION. THE ERECTOR'S QCI SHALL INSPECT THE ERECTED STEEL FR/ MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH THE QAI SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PLACEM CONSTRUCTION DOCUMENTS. AS A MINIMUM, THE DIAMETER, GRADE, TYPE , SHALL BE VERIFIED PRIOR TO PLACEMENT OF THE CONCRETE. THE QAI SHALL INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME BRACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JO 7. QUALITY ASSURANCE (QA) INSPECTIONS, EXCEPT NONDESTRUCTIVE TESTING AUTHORITY HAVING JURISDICTION (AHJ) TO PERFORM THE WORK WITHOUT O APPROVED BY THE AHJ. WHEN THE FABRICATOR PERFORMS THE NDT, THE O 8. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBN FABRICATOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE ERECTOR A 9. IDENTIFICATION AND REJECTION OF MATERIAL OR WORKMANSHIP THAT IS N THE WORK. HOWEVER, THIS PROVISION SHALL NOT RELIEVE THE OWNER OF WORKMANSHIP SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE F 10. NONCONFORMING MATERIAL OR WORKMANSHIP SHALL BE BROUGHT INTO C 11. CONCURRENT WITH THE SUBMITTAL OF SUCH REPORTS TO THE AHJ, EOR OI (1) NONCONFORMING MATERIAL OR WORKMANSHIP SHALL BE BROUGHT INTO C 11. CONCURRENT WITH THE SUBMITTAL OF SUCH REPORTS TO THE AHJ, EOR OI (1) NONCONFORMANCE REPORTS

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R 2021 IBC SECTION 1705.2.1							LY AND MOUNT		
INSPECTION TASKS PRIOR TO BOLTING (TABLE N5.6-1)	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	NOTES			n an	D
IFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS ENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS		•	•	•	1. PERIODIC - OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.		<u></u>		
ER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT TH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)		•		•	 CONTINUOUS - PERFORM THESE TASKS FOR EACH BOLTED CONNECTION. QUALITY CONTROL (QC) SHALL BE PROVIDED BY THE FABRICATOR AND ERECTOR. 		Z 4		
IECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION IOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS		•		•	4. QUALITY ASSURANCE (QA) SHALL BE PROVIDED BY OTHERS WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION (AHJ), APPLICABLE BUILDING CODE (ABC), PURCHASER, OWNER, OR		uite 4	~	
NSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL RVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	•			•	ENGINEER OF RECORD (EOR). NONDESTRUCTIVE TESTING (NDT) SHALL BE PERFORMED BY THE AGENCY OR FIRM RESPONSIBLE FOR QUALITY ASSURANCE, EXCEPT AS PERMITTED IN ACCORDANCE WITH SECTION N7.		eet, S	⊤ % 841	
ER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER PONENTS		•		•	 FOR SNUG-TIGHT JOINTS, PRE-INSTALLATION VERIFICATION TESTING AS SPECIFIED IN TABLE N5.6-1 AND MONITORING OF THE INSTALLATION PROCEDURES AS SPECIFIED IN TABLE N5.6-2 ARE 		e Stre	∩ n.c	
INSPECTION TASKS DURING BOLTING (TABLE N5.6-2)	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	NOT APPLICABLE. THE QCI AND QAI NEED NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS IN SNUG-TIGHT JOINTS.			ke City, solution -9-8800	
ENER ASSEMBLIES, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE FIONED AS REQUIRED		•		•	6. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE TURN-OF-NUT METHOD WITH MATCHMARKING TECHNIQUES, THE DIRECT-TENSION-INDICATOR		, t	t Lal v.eas i-54	
BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING ATION		•		•	METHOD, OR THE TWIST-OFF-TYPE TENSION CONTROL BOLT METHOD, MONITORING OF BOLT PRETENSIONING PROCEDURES SHALL BE AS SPECIFIED IN TABLE N5.6-2. THE QCI AND QAI NEED			3 ≪ 2 3 ≪ 3 3 ≪ 1	4
ENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING		•		•	NOT BE PRESENT DURING THE INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER.			Appr.	
ENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, RESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE S		•		•	7. FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS, WHEN THE INSTALLER IS USING THE CALIBRATED WRENCH METHOD OR THE TURN-OF-NUT METHOD WITHOUT MATCHMARKING, MONITORING OF BOLT PRETENSIONING PROCEDURES SHALL BE AS SPECIFIED			23/24 Date	
INSPECTION TASKS AFTER BOLTING (TABLE N5.6-3) IMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	CONTINUOUS	PERIODIC	CONTINUOUS	PERIODIC	IN TABLE N5.6-2. THE QCI AND QAI SHALL BE ENGAGED IN THEIR ASSIGNED INSPECTION DUTIES DURING INSTALLATION OF FASTENERS WHEN THESE METHODS ARE USED BY THE INSTALLER.			10/	
					8. OBSERVATION OF BOLTING OPERATIONS SHALL BE THE PRIMARY METHOD USED TO CONFIRM THAT THE MATERIALS, PROCEDURES AND WORKMANSHIP INCORPORATED IN CONSTRUCTION ARE IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS AND THE				
	_ STEEL SP				PROVISIONS OF THE RCSC SPECIFICATION.				
WHERE A TASK IS NOTED TO BE PERFORMED BY BOTH QC AND QA, IT IS PERMITTED PERFORMED BY ONLY ONE PARTY. WHERE QA RELIES UPON INSPECTION FUNCTION REQUIRED. THE FABRICATOR'S QCI SHALL INSPECT THE FABRICATED STEEL TO VERIFY COMPLI- CONNECTION. THE ERECTOR'S QCI SHALL INSPECT THE ERECTED STEEL FRAME TO MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNE THE QAI SHALL BE ON THE PREMISES FOR INSPECTION DURING THE PLACEMENT OF CONSTRUCTION DOCUMENTS. AS A MINIMUM, THE DIAMETER, GRADE, TYPE AND LE SHALL BE VERIFIED PRIOR TO PLACEMENT OF THE CONCRETE. THE QAI SHALL INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME, AS AF RACES, STIFFENERS, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DI QUALITY ASSURANCE (QA) INSPECTIONS, EXCEPT NONDESTRUCTIVE TESTING (NDT) AUTHORITY HAVING JURISDICTION (AHJ) TO PERFORM THE WORK WITHOUT QA. ND PROVED BY THE AHJ. WHEN THE FABRICATOR PERFORMS THE NDT, THE QA AGE ABRICATOR ARE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. AT COI THAT THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE ERECTOR ARE IN A DENTIFICATION AND REJECTION OF MATERIAL OR WORKMANSHIP THAT IS NOT IN C THE WORK. HOWEVER, THIS PROVISION SHALL NOT RELIEVE THE OWNER OR THE IN	NS PERFORMED IANCE WITH THE O VERIFY COMPLI ECTION. F ANCHOR RODS ENGTH OF THE AI PPROPRIATE, TO ETAILS AT EACH (), MAY BE WAIVE T OF WELDS COI ENCY SHALL REV ERTIFICATE OF C MPLETION OF EF ACCORDANCE W CONFORMANCE (NSPECTOR OF T CATOR OR ERECT RMANCE, OR MAE	BY QC, THE DETAILS SH IANCE WITH AND OTHEF NCHOR ROD VERIFY COI CONNECTION D VERIFY COI CONNECTION D VERIFY COI CONNECTION D VERIFY COI D VERIFY COI	E APPROVAL OF HOWN ON THE S I THE DETAILS S R EMBEDMENTS D OR EMBEDDED MPLIANCE WITH ON. IE WORK IS PER I AN APPROVED BRICATOR'S ND E TO THE AHJ ST HE APPROVED E DNSTRUCTION D CONSTRUCTION D	THE ENGINE SHOP DRAWI SHOWN ON T SUPPORTIN DITEM, AND THE DETAI FABRICATO DT REPORTS TATING THA RECTOR SH OCUMENTS DOCUMENTS DOCUMENTS Y, IN-SEQUE	ER OF RECORD AND THE AUTHORITY HAVING JURISDICTION IS NGS, SUCH AS PROPER APPLICATION OF JOINT DETAILS AT EACH HE ERECTION DRAWINGS, SUCH AS BRACES, STIFFENERS, IG STRUCTURAL STEEL FOR COMPLIANCE WITH THE THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE, .S SHOWN ON THE CONSTRUCTION DOCUMENTS, SUCH AS A FABRICATING SHOP OR BY AN ERECTOR APPROVED BY THE R'S SHOP MAY BE PERFORMED BY THAT FABRICATOR WHEN THE MATERIALS SUPPLIED AND WORK PERFORMED BY THE ALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AHJ STATING S, SHALL BE PERMITTED AT ANY TIME DURING THE PROGRESS OF NCE INSPECTIONS. NONCONFORMING MATERIAL AND SE AS DETERMINED BY THE ENGINEER OF RECORD.		File:	wed by: Scale: Scale: 3/4" = 1'-0" 3/4" = 1'-0" itted by: Project Number: 1 EA24022TP Rev.	
WORKMANSHIP SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE FABRIC, NONCONFORMING MATERIAL OR WORKMANSHIP SHALL BE BROUGHT INTO CONFOR CONCURRENT WITH THE SUBMITTAL OF SUCH REPORTS TO THE AHJ, EOR OR OWN 1) NONCONFORMANCE REPORTS 2) REPORTS OF REPAIR, REPLACEMENT OR ACCEPTANCE OF NONCONFORMING ITE						gned	Drawn by	Revie RME Subm	
VORKMANSHIP SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE FABRIC. NONCONFORMING MATERIAL OR WORKMANSHIP SHALL BE BROUGHT INTO CONFOR CONCURRENT WITH THE SUBMITTAL OF SUCH REPORTS TO THE AHJ, EOR OR OWN 1) NONCONFORMANCE REPORTS						gned		N SCHEDULE	

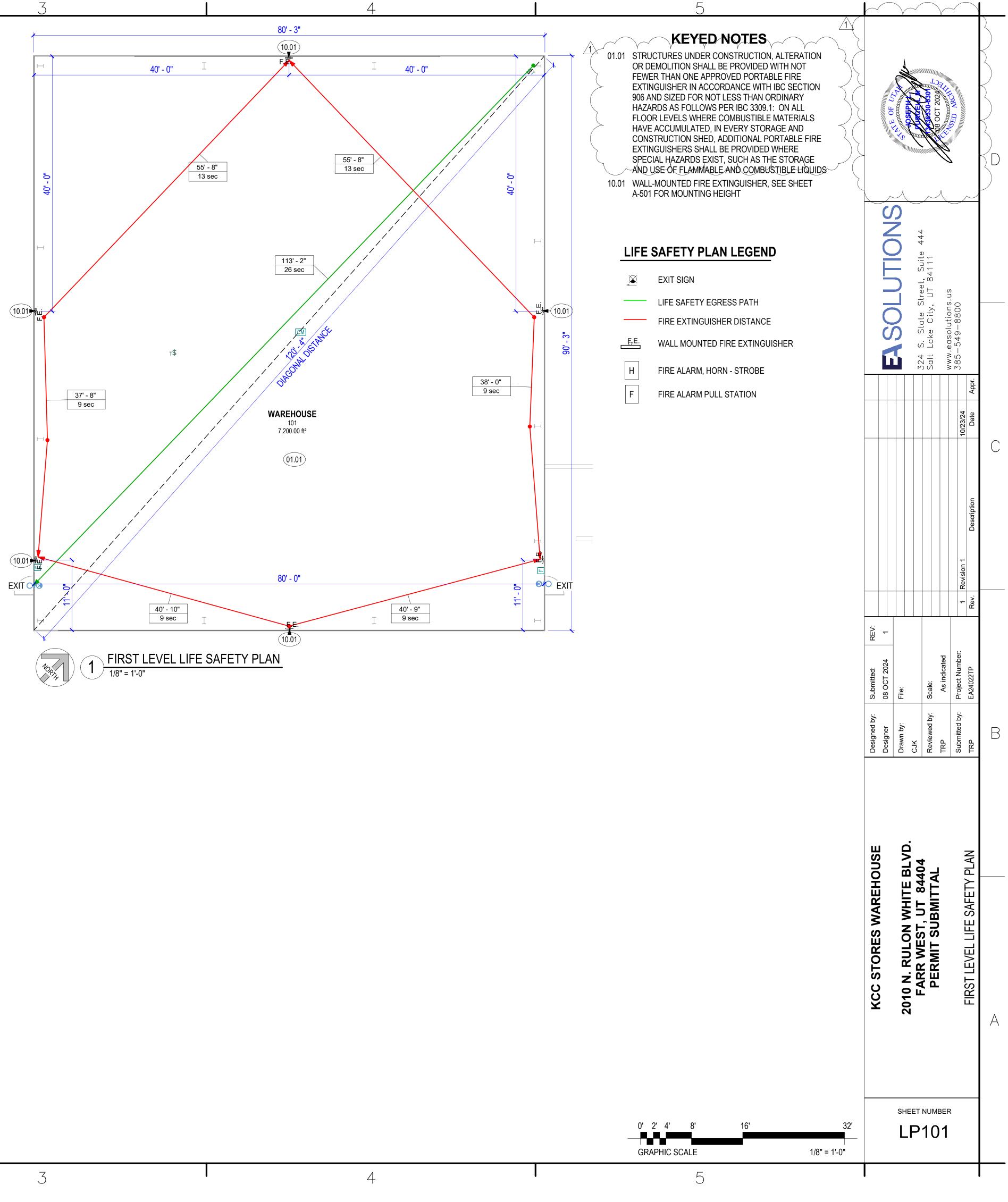
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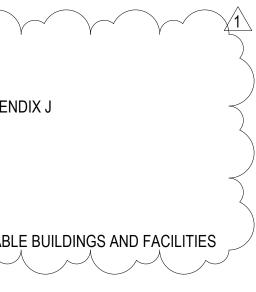


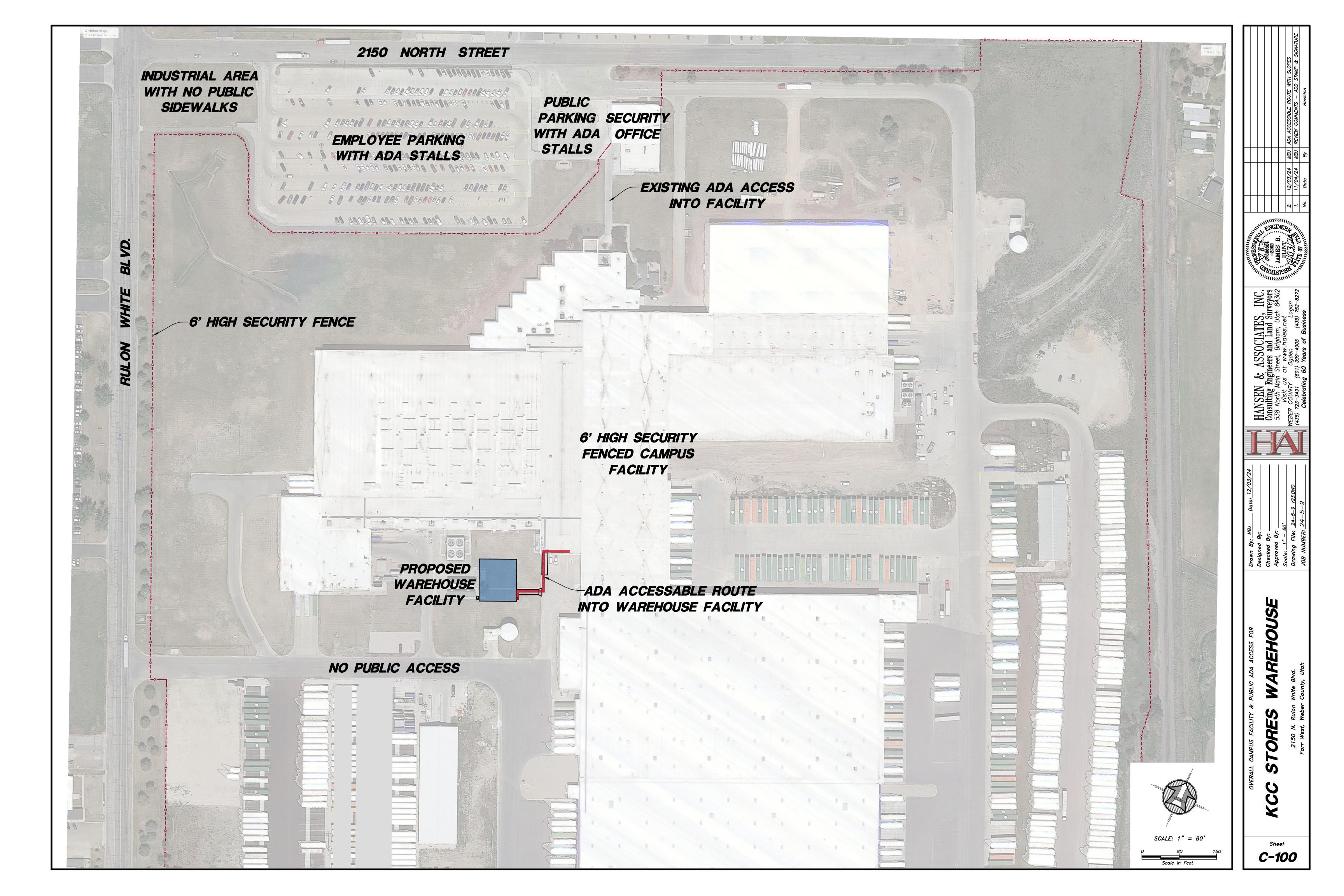


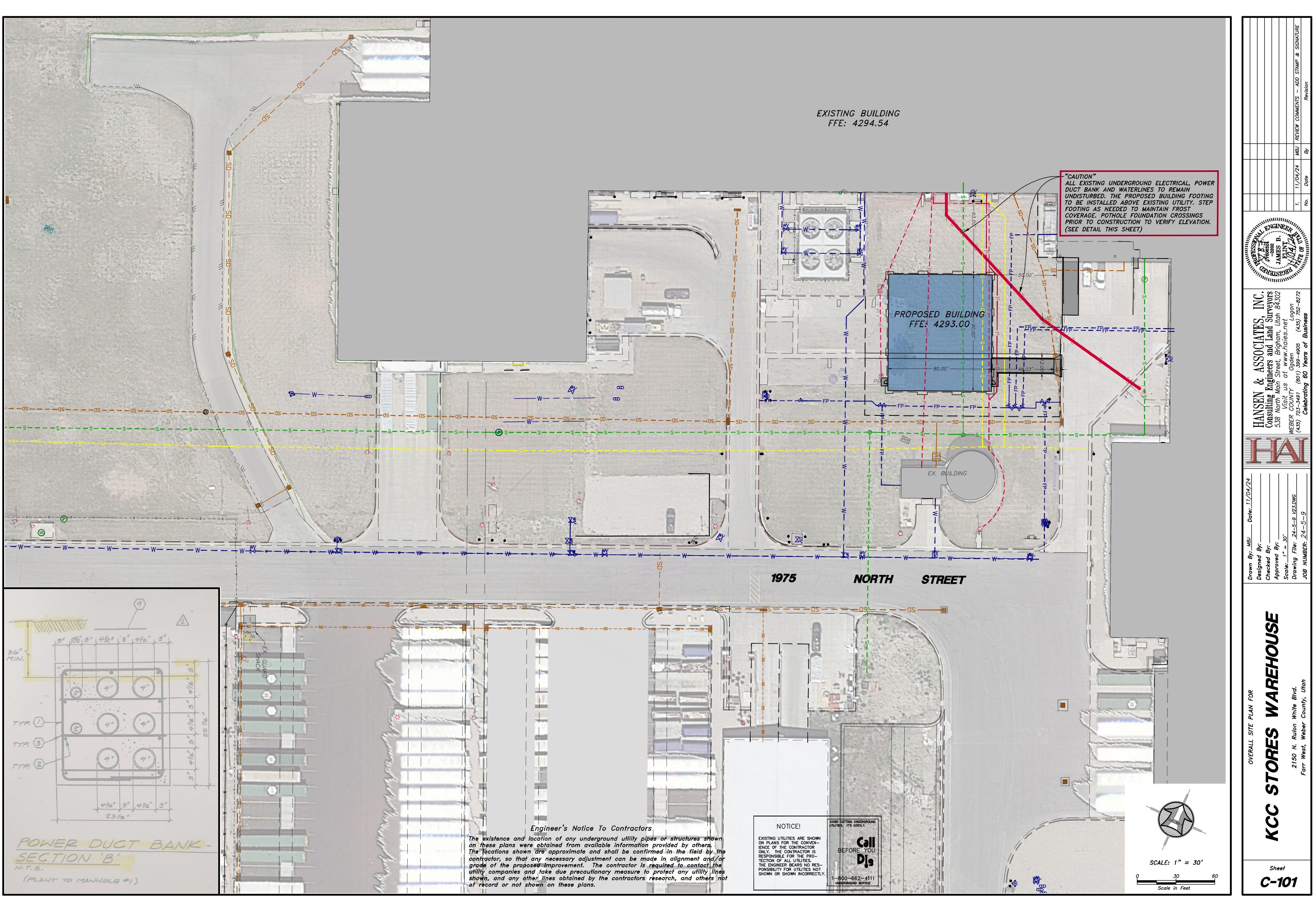


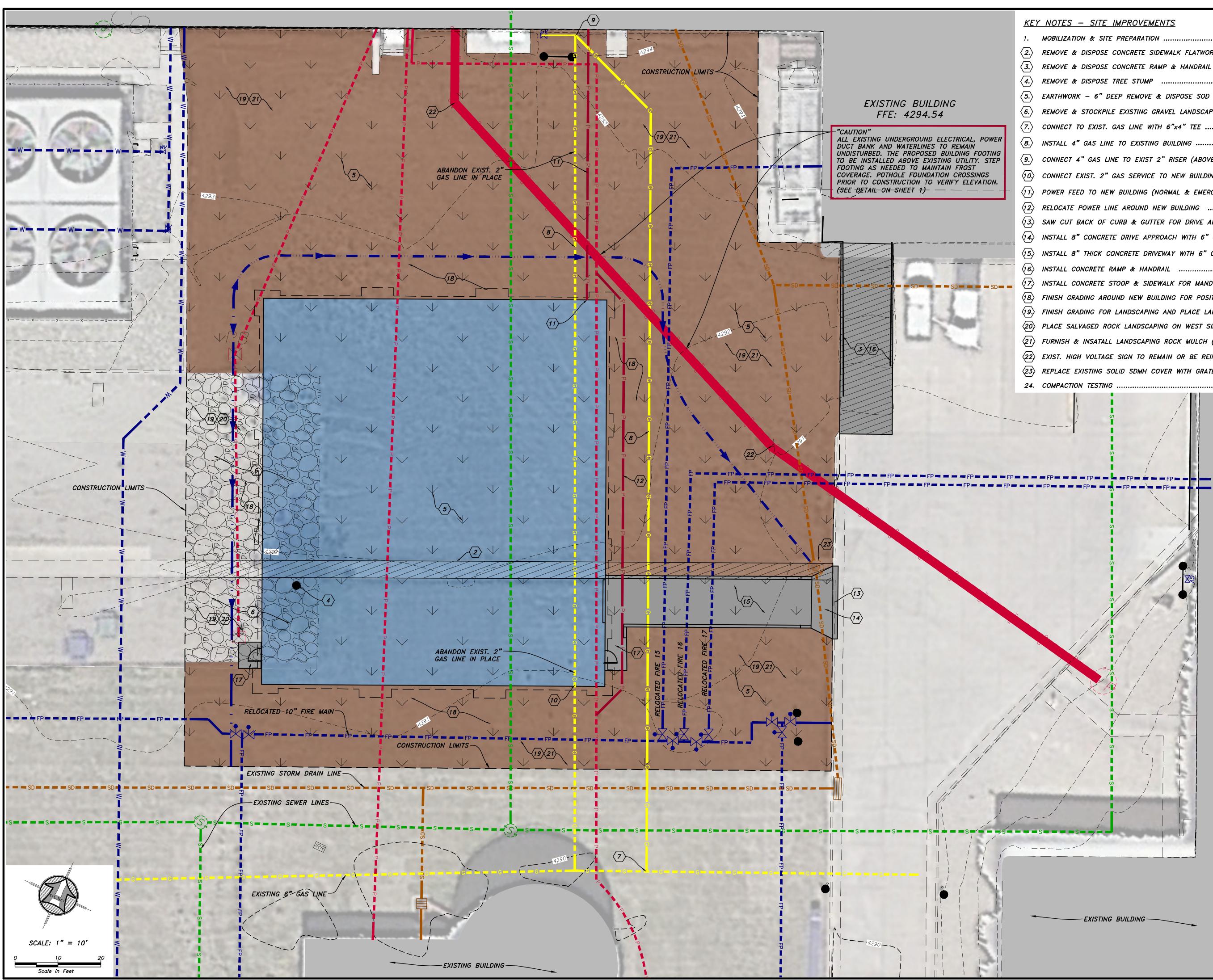
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<u> </u>	<u> NOTES – SITE IMPROVEMENTS</u>
1.	MOBILIZATION & SITE PREPARATION 1 L.S.
(2.)	REMOVE & DISPOSE CONCRETE SIDEWALK FLATWORK
<u> </u>	REMOVE & DISPOSE CONCRETE RAMP & HANDRAIL
4.	REMOVE & DISPOSE TREE STUMP 1 EACH
(5.)	EARTHWORK – 6" DEEP REMOVE & DISPOSE SOD & MINIMAL TOPSOIL 420 C.Y.
$\langle 6. \rangle$	REMOVE & STOCKPILE EXISTING GRAVEL LANDSCAPE ROCK
	CONNECT TO EXIST. GAS LINE WITH 6"x4" TEE 1 EACH
(8.)	INSTALL 4" GAS LINE TO EXISTING BUILDING 204 L.F.
(9.)	CONNECT 4" GAS LINE TO EXIST 2" RISER (ABOVE GROUND) 1 L.S.
(10)	CONNECT EXIST. 2" GAS SERVICE TO NEW BUILDING WITH REGULATOR & VALVE 1 L.S.
$\langle 1 1 \rangle$	POWER FEED TO NEW BUILDING (NORMAL & EMERGENCY) 4 EACH
<12>	RELOCATE POWER LINE AROUND NEW BUILDING 110 L.F.
(13)	SAW CUT BACK OF CURB & GUTTER FOR DRIVE APPROACH & DISPOSE 17 L.F.
(14)	INSTALL 8" CONCRETE DRIVE APPROACH WITH 6" COMPACTED ROAD BASE
(15)	INSTALL 8" THICK CONCRETE DRIVEWAY WITH 6" COMPACTED ROAD BASE 576 S.F.
(16)	INSTALL CONCRETE RAMP & HANDRAIL 1 L.S.
(17)	INSTALL CONCRETE STOOP & SIDEWALK FOR MANDOORS
(18)	FINISH GRADING AROUND NEW BUILDING FOR POSITIVE DRAINAGE
(19)	FINISH GRADING FOR LANDSCAPING AND PLACE LANDSCAPE FABRIC 17,110 S.F.
 20>	PLACE SALVAGED ROCK LANDSCAPING ON WEST SIDE OF BUILDING 1,175 S.F.
$\langle 21 \rangle$	FURNISH & INSATALL LANDSCAPING ROCK MULCH (CRUSHED BRICK) 15,935 S.F.
(22)	EXIST. HIGH VOLTAGE SIGN TO REMAIN OR BE REINSTALLED
23	REPLACE EXISTING SOLID SDMH COVER WITH GRATED COVER
24.	COMPACTION TESTING 1 L.S.

C S KCC Sheet **C-102**

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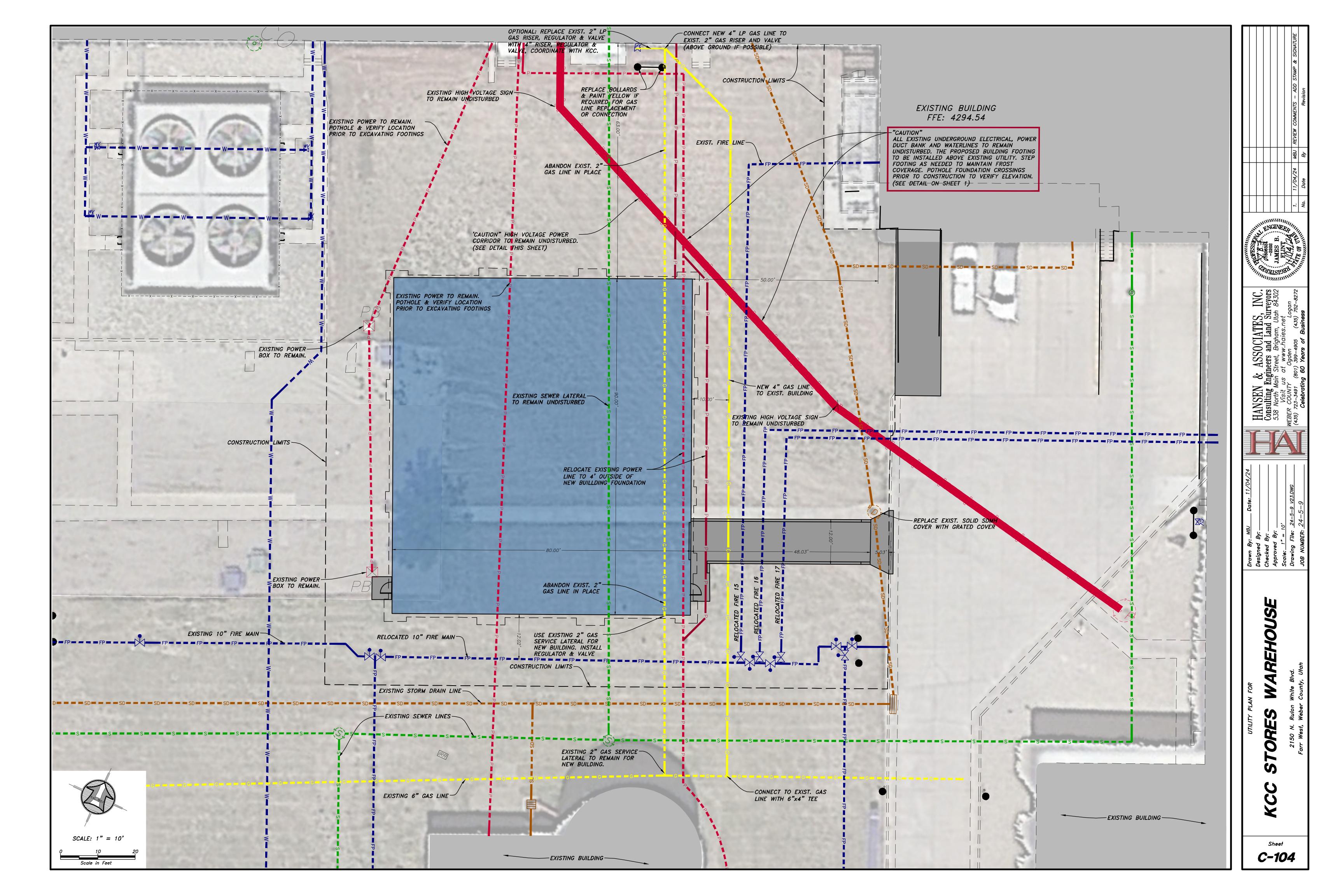
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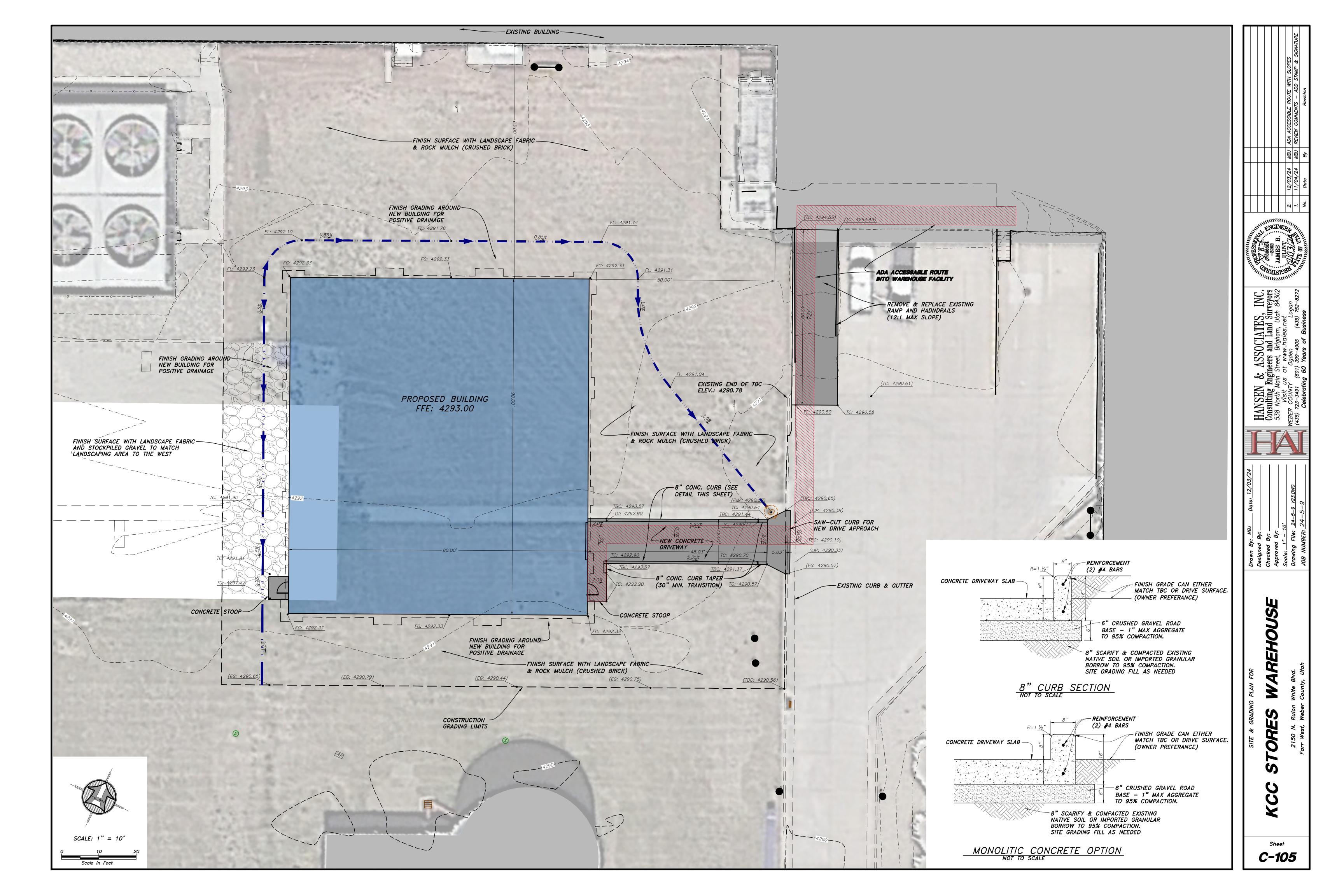
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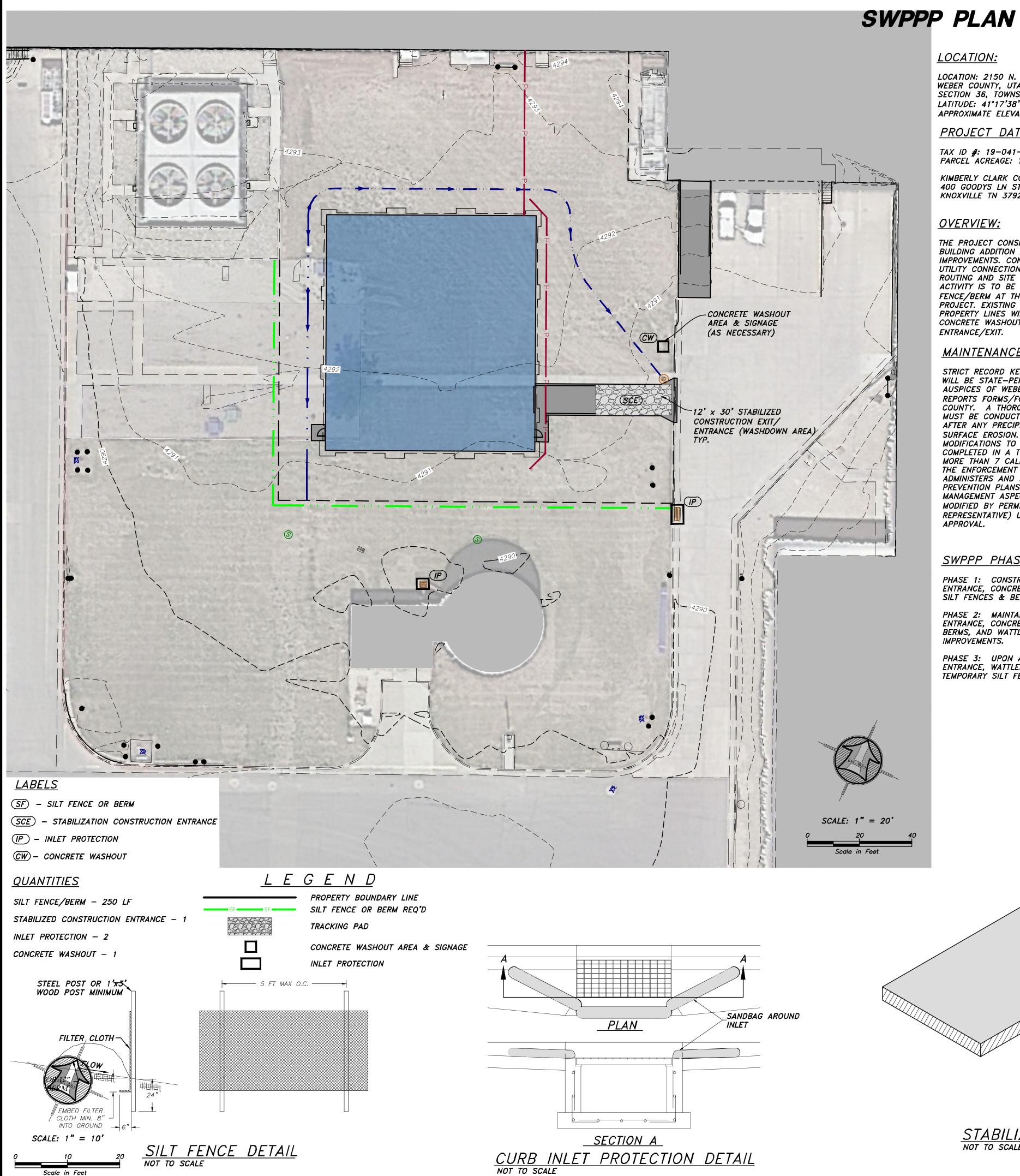
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LOCATION:

LOCATION: 2150 N. RULON WHITE BLVD. FARR WEST, WEBER COUNTY, UTAH SECTION 36, TOWNSHIP 7 NORTH, RANGE 2 WEST, SLB&M LATITUDE: 41°17'38" N LONGITUDE: 112°00'27" W APPROXIMATE ELEVATION: 4293'

PROJECT DATA:

TAX ID **#**: 19–041–0076 PARCEL ACREAGE: 133.48 ACRES

KIMBERLY CLARK CORPORATION 400 GOODYS LN STE 100, KNOXVILLE TN 379221932

OVERVIEW:

THE PROJECT CONSISTS OF THE CONSTRUCTION OF A BUILDING ADDITION AND ADJACENT DRIVE ACCESS IMPROVEMENTS. CONSTRUCTION WILL ALSO CONSIST OF UTILITY CONNECTIONS AND INSTALLATION, STORM DRAIN ROUTING AND SITE GRADING. DRAINAGE FROM ON-SITE ACTIVITY IS TO BE INTERCEPTED BY THE SILT FENCE/BERM AT THE SOUTH BOUNDARY OF THE PROJECT. EXISTING DITCHES ALONG THE EAST AND WEST PROPERTY LINES WILL ALSO ACT AS BARRIERS. CONCRETE WASHOUT AREA IS LOCATED NEAR THE ENTRANCE/EXIT.

MAINTENANCE/RECORD-KEEPING:

STRICT RECORD KEEPING IS IMPERATIVE. THE PROJECT WILL BE STATE-PERMITED BUT PARTICULARLY UNDER THE AUSPICES OF WEBER COUNTY. KEEP INSPECTION REPORTS FORMS/FORMAT AS MANDATED BY WEBER COUNTY. A THOROUGH INSPECTION OF THE SWPPP MUST BE CONDUCTED AT LEAST EVERY 14 DAYS AND AFTER ANY PRECIPITATION OR SNOWMELT THAT CAUSES SURFACE EROSION. MAINTENANCE AND/OR MODIFICATIONS TO EROSION MEASURES MUST BE COMPLETED IN A TIMELY MANNER, BUT IN NO CASE MORE THAN 7 CALENDAR DAYS AFTER THE INSPECTION. THE ENFORCEMENT AGENCY IS WEBER COUNTY, WHO ADMINISTERS AND ENFORCES STORMWATER POLLUTION PREVENTION PLANS LOCALLY. STORMWATER MANAGEMENT ASPECTS AND PROCEDURES MAY BE MODIFIED BY PERMITTEE (AND/OR OFFICIAL REPRESENTATIVE) UPON OBTAINING WEBER COUNTY APPROVAL.

SWPPP PHASING - ORDER OF WORK:

PHASE 1: CONSTRUCTION OF STABILIZED CONSTRUCTION ENTRANCE, CONCRETE WASHOUT AREA AND SIGNAGE, SILT FENCES & BERMS, AND INLET PROTECTION.

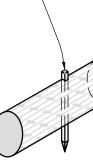
PHASE 2: MAINTAIN STABILIZED CONSTRUCTION ENTRANCE, CONCRETE WASHOUT AREA, SILT FENCES & BERMS, AND WATTLES DURING CONSTRUCTION AND SITE IMPROVEMENTS.

PHASE 3: UPON ASPHALTING, REMOVE CONSTRUCTION ENTRANCE, WATTLES, INLET PROTECTION, AND TEMPORARY SILT FENCES & BERMS.

8" min. 3" TO 6" SIZE COARSE AGGREGATE SEDIMENT FABRIC UNDER GRAVEL

NOT TO SCALE

STABILIZED CONSTRUCTION ENTRANCE





CONCRETE WASHOUT AREA NOT TO SCALE

CONCRETE WASHOUT AREA NOTES:

INSTALLATION & MAINTENANCE PER SERVICE AGREEMENT. NOTE: ADDING SOLVENTS, FLOCCULENTS, OR ACID TO THE WASHWATER IS PROHIBITED.

9" HEAVY DUTY WATTLE 🔨 O.C. REQ'D. DRIVE STAKE UNTIL REQ'D. INSTALL ACROSS 2" TO 3" REMAINS EXPOSED FULL DITCH WIDTH

- 1"x1"x18"L WOOD STAKE @ 5.0'

MIN. 9"Ø STRAW FILLED WATTLE REQ'D.

ENDS OF WATTLES TO BUTT TOGETHER NO GAPS ALLOWED

TYPICAL WATTLE/FILTER SOCK NOT TO SCALE

STABILIZED CONSTRUCTION ENTRANCE NOTES:

INSTALLATION/APPLICATION CRITERIA: 1. CLEAR AND GRUB AREA AND GRADE TO PROVIDE MAXIMUM

SLOPE OF 2%.

2. COMPACT SUBGRADE AND PLACE FILTER FABRIC IF DESIRED (RECOMMENDED FOR ENTRANCES TO REMAIN FOR MORE THAN 3 MONTHS)

3. PLACE COARSE AGGREGATE, 3" TO 6" IN SIZE, TO A MINIMUM DEPTH OF 8".

<u>LIMITATIONS:</u> 1. REQUIRES PERIODIC TOP DRESSING WITH ADDITIONAL STONES.

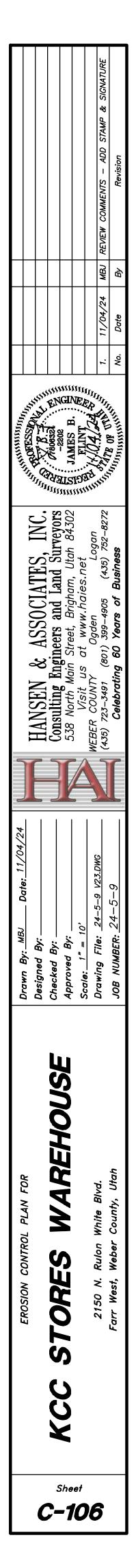
2. SHOULD BE USED IN CONJUNCTION WITH STREET SWEEPING ON ADJACENT PUBLIC RIGHT-OF-WAY.

MAINTENANCE: 1. INSPECT DAILY FOR LOSS OF GRAVEL OR SEDIMENT BUILDUP.

2. INSPECT ADJACENT ROADWAY FOR SEDIMENT DEPOSIT AND CLEAN BY SWEEPING OR SHOVELING.

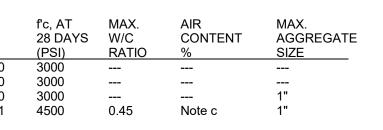
3. REPAIR ENTRANCE AND REPLACE GRAVEL AS REQUIRED TO MAINTAIN CONTROL IN GOOD WORKING CONDITION.

4. EXPAND STABILIZED AREA AS REQUIRED TO ACCOMMODATE TRAFFIC AND PREVENT EROSION AT DRIVEWAYS.



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	STRUCTURAL NOTES :	
	 A. GENERAL 1. THE STRUCTURAL NOTES ARE INTENDED TO COMPLEMENT THE PROJECT SPECIFICATIONS WHICH ARE 	 E. CONCRETE 1. ALL CONCRETE MIX DESIGNS SHALL COMPLY WITH
	 PART OF THE CONSTRUCTION DOCUMENTS. SPECIFIC NOTES AND DETAILS ON THE DRAWINGS SHALL GOVERN OVER THE STRUCTURAL NOTES AND TYPICAL DETAILS. 2. THESE DRAWINGS (AND, WHERE APPLICABLE, ACCOMPANYING WRITTEN SPECIFICATIONS) ARE THE ONLY CONTRACT DOCUMENTS PROVIDED BY ARW ENGINEERS FOR THE PROJECT REPRESENTED HEREIN. NOTHING IN ANY DIGITAL MODEL OR DIGITAL FILE RELATED TO THIS PROJECT SHALL BE 	REQUIREMENTS LISTED BELOW : ELEMENT ELEMENT F S W C
	 TAKEN TO SUPERSEDE ANY INFORMATION SHOWN IN THESE DRAWINGS (INCLUDING, BUT NOT LIMITED TO, DIMENSIONS, SIZES, ETC). THE ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. THE STRUCTURAL DRAWINGS ARE SUPPLEMENTARY TO AND MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS 	Interior Slabs on Grade F0 S0 W0 C0 Interior Slabs on Metal Deck F0 S0 W0 C0 FTG / Grade Beams / FDN Walls ^a F0 S0 W1 C0 FTG / Grade Beams / FDN Walls ^b F2 S0 W1 C1
D	 AND OTHER CONSULTANTS DRAWINGS. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER. 4. SEE SPECIFICATIONS FOR REQUIRED SUBMITTALS. SUBMITTALS SHALL BE MADE IN A TIMELY MANNER AS INDICATED IN SPECIFICATIONS. REVIEW OF SUBMITTALS BY ARW ENGINEERS IS FOR GENERAL 	NOTES : a. ELEMENT IS NOT EXPOSED TO FREEZING b. ELEMENT IS EXPOSED TO FREEZING AND c. TOTAL AIR CONTENT FOR CONCRETE EX BE DETERMINED IN ACCORDANCE WITH T DELIVERED SHALL BE +/- 1.5 PERCENT.
	 COMPLIANCE ONLY AND IS NOT INTENDED AS APPROVAL. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SIZES, DIMENSIONS, AND ELEVATIONS ON SUBMITTALS AS RELATED TO DESIGN DOCUMENTS. PREPARATION OF SHOP DRAWINGS FOR STRUCTURAL ELEMENTS WILL REQUIRE INFORMATION (I.E. DIMENSIONS, ETC.) FOUND IN THE ARCHITECTURAL, STRUCTURAL, AND OTHER CONSULTANTS DRAWINGS. 5. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE. IF ACTUAL 	NOMINAL MAXIMUM TARGET AI AGGREGATE SIZE, IN. F1 3/8 6 1/2 5.5 3/4 5
	 CONDITIONS DIFFER FROM THOSE SHOWN ON CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFFECTED ELEMENTS. 6. THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL LOCATIONS AND SIZES OF MECHANICAL EQUIPMENT OR OTHER EQUIPMENT BEFORE FABRICATING AND ERECTING STRUCTURAL ELEMENTS. SIZES AND LOCATIONS THAT DIFFER FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS SHALL BE 	1 4.5 1-1/2 4.5 2 4 3 3.5
	REPORTED TO THE ARCHITECT. 7. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ARCHITECT FOR ARCHITECT AND/OR ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY CHANGES, MODIFICATIONS, OR SUBSTITUTIONS.	 WATER USED IN MIXING CONCRETE SHALL CONF NO CONDUIT, PIPES, DUCTS, SLEEVES, ETC. SHA SPECIFICALLY DETAILED OR APPROVED BY THE SHALL BE EMBEDDED IN CONCRETE. PENETRATI
	 OBSERVATION VISITS TO THE SITE BY ARW ENGINEERS FIELD REPRESENTATIVES SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION. DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON STRUCTURE WITHIN THE LIMITS OF DESIGN LOADS AS NOTED IN THESE DOCUMENTS. TYPICAL OR SIMILAR DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN. TYPICAL OR SIMILAR DETAILS REFER TO THE CONDITION ADDRESSED AND ARE NOT 	 BE APPROVED BY THE ENGINEER AND SHALL BE PLACEMENT. 4. REFER TO ARCHITECTURAL DRAWINGS FOR MOI CONCRETE, AND FOR EXTENT AND LOCATION OF 5. UNLESS NOTED OTHERWISE, MINIMUM REINFOR AS FOLLOWS:
	NECESSARILY DETAILS LABELED "TYPICAL" OR "SIMILAR" IN THE PLANS AND DOCUMENTS. 11. DRAWINGS AND DETAILS HAVE BEEN PREPARED WITH THE INTENT TO VISUALLY REPRESENT INFORMATION PROVIDED IN SCALED FORM; HOWEVER CONTRACTOR/SUPPLIERS SHOULD NOT SCALE PLANS OR DETAILS FOR DIMENSIONAL INFORMATION. 12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN AND INSTALL ADEQUATE TEMPORARY	TOP &THICKNESSBOTTOM BARSVERTICAL6"(1) #5#4 AT 18"O.C.8"(2) #5#4 AT 18"O.C.10"(2) #5#4 AT 12"O.C.
	 SHORING AND BRACING FOR ALL STRUCTURAL ELEMENTS UNTIL THE ENTIRE STRUCTURAL SYSTEM IS COMPLETED. 13. ENGINEER SHALL NOT BE RESPONSIBLE FOR ACTIVITIES UNDER CONTROL OF THE CONTRACTOR SUCH AS CONSTRUCTION SITE SAFETY, MEANS, METHODS AND SEQUENCING OF CONSTRUCTION. ENGINEER SHALL NOT BE RESPONSIBLE FOR FABRICATION, ERECTION AND CONSTRUCTION REQUIREMENTS AS PRESCRIBED BY OSHA OR OTHER REGULATORY AGENCIES REGARDLESS OF INDICATIONS IN THESE 	12" (2) #5 #4 AT 18"O.C. E 6. UNLESS NOTED OTHERWISE, CONCRETE SLABS 4" THICK - #3 AT 18"O.C. EACH WAY 6" THICK - #4 AT 18"O.C. EACH WAY 8" THICK - #4 AT 12"O.C. EACH WAY 10" THICK - #5 AT 12" O.C. EACH WAY, TOP & E
С	DOCUMENTS. 14. NOTICE OF COPYRIGHT: THESE STRUCTURAL DRAWINGS ARE HEREBY COPYRIGHTED BY ARW ENGINEERS, ALL RIGHTS RESERVED. THESE DOCUMENTS DEFINE A STRUCTURE AND ARE INSTRUMENTS OF SERVICE, FOR ONE USE ONLY. REPRODUCTION AND DISTRIBUTION OF THESE DRAWINGS IS ONLY ALLOWED AS REQUIRED FOR REGULATORY AGENCIES AND FOR CONVEYANCE OF INFORMATION TO PARTIES INVOLVED IN THE CONSTRUCTION OF THIS PROJECT. THESE DOCUMENTS SHALL NOT BE REPRODUCED OR COPIED, IN PART OR WHOLE BY ANY PARTY FOR USE IN	REINFORCING SHALL BE CONTINUOUSLY SUPPO 7. UNLESS NOTED OTHERWISE, FOR NON-DETAILEI AND SMALLER THAN 24" IN ANY DIRECTION ADD (WALL REINFORCING AND EXTEND 24" EACH WAY SIDE, NOTIFY STRUCTURAL ENGINEER FOR FURT OF 12" OF CONCRETE ABOVE THE OPENING, TYP 8. CONSTRUCTION JOINTS NOT SHOWN ON THE PL
	PREPARATION OF SHOP DRAWINGS OR OTHER SUBMITTALS. 15. WHERE THE WORD "SHALL" OCCURS IN THESE DRAWINGS AND ANY ACCOMPANYING SPECIFICATIONS, IT IS CONSIDERED A MANDATORY OBLIGATION AND SYNONYMOUS WITH THE PHRASE "HAS DUTY TO". B. STATEMENT OF SPECIAL INSPECTIONS AND SPECIAL INSPECTIONS	IMPAIR THE STRENGTH OF THE STRUCTURE AND STEEL REINFORCING SHALL BE CONTINUOUS TH SEE TYPICAL DETAILS FOR COLD/CONSTRUCTION 9. WHERE NEW CONCRETE IS PLACED AGAINST PR BE CLEAN AND FREE OF LAITANCE. IMMEDIATELY
	 THE DESIGNATED SEISMIC/WIND SYSTEMS AND SEISMIC/WIND-FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.12 AND 1705.13 ARE IDENTIFIED ON THESE DOCUMENTS WITH A CIRCLE "L". ALL OTHER ITEMS REQUIRING SPECIAL INSPECTION ARE IDENTIFIED IN THE SPECIAL INSPECTION SCHEDULE ON SHEET S011 AND S012. SPECIAL INSPECTIONS AND TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTIONS 1704 	JOINTS SHALL BE PREWETTED AND STANDING W 10. WHERE GRADE BEAMS, HAIRPINS, OR SLAB REIN PRE-ENGINEERED METAL BUILDINGS, THE GRAD INSTALLED AND THE CONCRETE THAT ENCASES THE METAL BUILDING.
	 THROUGH 1705 AND OTHER APPLICABLE SECTIONS OF THE IBC. THE TYPE AND FREQUENCY OF TESTING AND SPECIAL INSPECTIONS SHALL BE AS NOTED IN THE SPECIAL INSPECTION SCHEDULE, JOB SPECIFICATIONS, AND ACCORDANCE WITH IBC SECTION 110 AND CHAPTER 17. CONTRACTOR SHALL COORDINATE AND COOPERATE WITH REQUIRED INSPECTIONS. 3. ALL TESTING AND SPECIAL INSPECTION SHALL BE PROVIDED BY A QUALIFIED INDEPENDENT SPECIAL INSPECTION ACCORDANCE WITH UPD 4704 AND AS OUT UNED IN THE IOD SPECIFICATIONS. 	 F. ANCHOR BOLTS/EMBEDDED BOLTS 1. ALL ANCHOR BOLTS SHALL HAVE ASTM A-563 HE STANDARD OR OVERSIZED HOLES PER AISC SPE COMPLY WITH THE LIMITATIONS FOR OVERSIZED NOTIFIED TO DEFENDING OTER PLATE WASHED
	 INSPECTION AGENCY IN ACCORDANCE WITH IBC 1704 AND AS OUTLINED IN THE JOB SPECIFICATIONS. REPORTS OF FINDINGS OR DISCREPANCIES SHALL BE NOTED AND FORWARDED TO THE CONTRACTOR, ARCHITECT, ENGINEERS, AND BUILDING OFFICIAL IN A TIMELY MANNER. 4. STRUCTURAL OBSERVATION VISITS SHALL BE PERFORMED BY A REPRESENTATIVE FROM ARW ENGINEERS IN ACCORDANCE WITH THE CONTRACT AS NEEDED TO OBSERVE THE CONSTRUCTION OF CRITICAL BUILDING ELEMENTS (I.E. FOOTINGS, BRACED FRAMES, MOMENT FRAMES, DRAG STRUTS AND 	NOTIFIED TO DETERMINE STEEL PLATE WASHER WITH THE FOLLOWING : a. AT BRACED FRAMES & MOMENT RESISTING F BOLTS.(ASTM F1554 THREADED ROD OF SAM WASHER.) b. AT ALL OTHER ANCHOR BOLTS (UNLESS NOT
	THEIR CONNECTIONS, COLLECTORS, AND ROOF AND FLOOR DIAPHRAGMS). STRUCTURAL OBSERVATION REPORTS FOR EACH VISIT SHALL BE SENT DIRECTLY TO THE ARCHITECT FOR DISTRIBUTION TO THE CONTRACTOR AND BUILDING OFFICIAL. STRUCTURAL OBSERVATION VISITS SHALL NEITHER BE CONSTRUED AS SPECIAL INSPECTION NOR APPROVAL OF COMPLETED CONSTRUCTION.	BOLTS. (ASTM A36 THREADED ROD MAY BE U 2. SEE TYPICAL ANCHOR BOLT DETAIL FOR DEFINIT 3. FURNISH TEMPLATES AND OTHER DEVICES AS N PLACING CONCRETE AND/OR GROUT. 4. IF THREADED RODS ARE USED AS PERMITTED AN
В	5. IN ACCORDANCE WITH IBC 1704.4, THE CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER. THE STATEMENT SHALL BE SUBMITTED PRIOR TO THE CONSTRUCTION OF ANY SEISMIC/WIND-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC/WIND SYSTEM, OR COMPONENT IDENTIFIED IN THESE DOCUMENTS WITH A CIRCLE "L".	5. WHERE REQUIRED FOR ERECTION, HOLES LARG USE OF STEEL PLATE WASHERS AT THE DISCRE
	C. BASIS OF DESIGN 1. GOVERNING BUILDING CODE : INTERNATIONAL BUILDING CODE (IBC) 2021	
	 COVERNING BOILDING CODE : INTERNATIONAL BOILDING CODE (IBC) 2021 RISK CATEGORY : II 2. LOADING ON FOUNDATIONS AS PROVIDED BY THE PRE ENGINEERED BUILDING MANUFACTURER D. FOUNDATION 	
	1. GENERAL a. DESIGN SOIL PRESSURE : 2500 PSF b. SOILS REPORT BY : GSH GEOTECHNICAL	
	REPORT # : 0115-117-21 DATED : FEBRUARY 14, 2022 c. SOIL PREPARATION UNDER FOUNDATIONS AND SLABS-ON-GRADE SHALL BE IN ACCORDANCE WITH	
	THE SOILS REPORT. d. TOP OF FOOTING ELEVATIONS SHOWN ON THE FOOTING AND FOUNDATION PLAN ARE BASED ON PRELIMINARY GRADING INFORMATION AND SHALL BE VERIFIED PRIOR TO CONSTRUCTION. STEPS WHERE SHOWN ARE AT APPROXIMATE LOCATIONS. ACTUAL STEP LOCATIONS SHALL BE AT THE CONTRACTOR'S DISCRETION BASED UPON FIELD CONDITIONS. ALL EXTERIOR FOUNDATIONS SHALL	
	 BEAR A MINIMUM OF 30 INCHES BELOW LOWEST ADJACENT FINAL GRADE. e. ALL WALLS (EXCEPT CANTILEVERED RETAINING WALLS) SHALL BE ADEQUATELY BRACED AGAINST LATERAL MOVEMENT PRIOR TO BACKFILLING. DESIGN AND ERECTION OF BRACING/SHORING SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. BRACING SHALL REMAIN IN PLACE UNTIL SUPPORTING STRUCTURAL ELEMENTS ARE IN PLACE AND HAVE ATTAINED FULL STRENGTH. 	
	 f. UNLESS NOTED OTHERWISE, ALL FOOTINGS AT COLUMNS SHALL BE CENTERED BELOW COLUMNS. g. UNLESS NOTED OTHERWISE, ALL FOOTINGS SHALL HAVE VERTICAL FACES FORMED WITH STANDARD FORMING MATERIALS (WOOD, METAL, ETC.). WITH PRIOR APPROVAL OF ARCHITECT AND ENGINEER, CONCRETE FOR FOOTINGS CAN BE PLACED IN EXCAVATED SOIL "FORMS" PROVIDED THAT THE DIMENSIONS ARE INCREASED 3" ON ALL SIDE. 	
	 h. UNLESS NOTED AND DETAILED OTHERWISE, NO PIPES, DUCTS, CONDUITS, NON-STRUCTURAL ITEMS, ETC. SHALL BE BURIED BELOW OR EMBEDDED IN FOOTINGS / FOUNDATION WALLS. SEE TYPICAL DETAIL FOR CONDITIONS WHERE THESE ITEMS CROSS OR RUN PARALLEL TO FOOTINGS / FOUNDATION WALLS. 	
A		

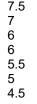
WITH THE PROJECT SPECIFICATIONS AND THE



NG AND / OR IS BURIED IN SOIL BELOW THE FROST LINE. ND / OR IS LOCATED ABOVE THE FROST LINE. EXPOSED TO CYCLES OF FREEZING AND THAWING SHALL THIS SCHEDULE. TOLERANCE ON AIR CONTENT AS

AIR CONTENT, PERCENT F2 AND F3

 \cap



HALL BE PLACED IN STRUCTURAL CONCRETE UNLESS E STRUCTURAL ENGINEER. NO ALUMINUM PRODUCTS TIONS THRU STRUCTURAL CONCRETE ELEMENTS MUST BE BUILT INTO THE ELEMENT PRIOR TO CONCRETE

OF DEPRESSIONS, CURBS, RAMPS, ETC. PRCING IN ALL CONCRETE FOUNDATION WALLS SHALL BE

HORIZONTAL
#4 AT 16"O.C.
#4 AT 12"O.C.
#5 AT 12"O.C.

EA FACE #4 AT 16"O.C. EA FACE S ON EARTH SHALL BE REINFORCED AS FOLLOWS:

PORTED AT 36"O.C. MAXIMUM SPACING. ED OPENINGS IN CONCRETE WALLS LARGER THAN 12") (2) #5 BARS ON ALL SIDES IN ADDITION TO REGULAR AY BEYOND OPENING. IF 24" IS NOT AVAILABLE ON EVERY RTHER DIRECTION. OPENINGS SHALL HAVE A MINIMUM

PLANS SHALL BE MADE AND LOCATED SO AS TO NOT ND AS APPROVED BY THE STRUCTURAL ENGINEER. ALL HROUGH COLD JOINTS UNLESS NOTED OTHERWISE. ION JOINTS FOR SLABS ON GRADE. PREVIOUSLY HARDENED CONCRETE, THE JOINT SHALL

ELY BEFORE NEW CONCRETE IS PLACED, CONSTRUCTION WATER REMOVED. INFORCING IS DOWELED TO THE FOUNDATION WALLS IN

ADE BEAMS, HAIRPINS, OR SLAB REINFORCING SHALL BE ES THEM SHALL BE PLACED PRIOR TO THE ERECTION OF

HEAVY HEX NUT AND ASTM F-436 WASHERS AT PECIFICATION TABLE J3.3. WHERE HOLE SIZES DO NOT ED HOLES THE STRUCTURAL ENGINEER SHALL BE ER REQUIREMENTS. ANCHOR BOLTS SHALL COMPLY

G FRAMES - ASTM F1554 GRADE 105 HEADED ME GRADE MAY BE USED WITH DOUBLE NUT AND

OTED OTHERWISE) - ASTM F1554 GRADE 36 HEADED USED WITH DOUBLE NUT AND WASHER.) NITIONS OF EMBEDMENT LENGTH, ETC.

NECESSARY FOR PRESETTING ALL BOLTS PRIOR TO ABOVE, THEY SHALL BE CLEAR OF SOIL AND DIRT.

RGER THAN OVERSIZED MAY BE PERMITTED WITH THE RETION OF THE STRUCTURAL ENGINEER.

G. REINFORCING STEEL 1. REINFORCING BAR STRENGTH REQUIREMENTS:

a. ALL REINFORCING BARS EXCEPT AS INDICATED IN NOTE b, SHALL CONFORM TO ASTM STANDARD

A-615 GRADE 60 AND ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM STANDARD A-1064 AND SHALL BE SUPPLIED IN FLAT SHEETS. ADEQUATELY TIE AND SUPPORT ALL REINFORCING STEEL AS SPECIFIED BY ACI 117, TO MAINTAIN EXACT REQUIRED POSITION. 2. ALL REINFORCING STEEL SHALL BE TIED IN PLACE AND ADEQUATELY SUPPORTED PRIOR TO PLACING

- CONCRETE. WET STABBING OF ANY REINFORCING STEEL IS NOT PERMITTED, UNLESS SPECIFICALLY DETAILED OTHERWISE OR APPROVED BY THE ENGINEER. 3. ALL FIELD BENT DOWELS SHALL BE GRADE 40 WITH SPACING INDICATED REDUCED BY 1/3.
- 4. UNLESS NOTED OTHERWISE, REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE COVERAGE : a. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3" b. EXPOSED TO EARTH OR WEATHER :
 - 1. #6 & LARGER 2" 2. #5 & SMALLER1-1/2"
- c. NOT EXPOSED TO WEATHER OR EARTH :
- 1. SLABS, WALLS, JOISTS, #11 & SMALLER 3/4" 2. BEAMS, COLUMNS: MAIN REINFORCING OR TIES 1-1/2"
- d. SLAB ON GRADE :
- 1. PLACE REINFORCING AT CENTER OF SLAB UNLESS INDICATED OTHERWISE. 5. EXCEPT WHERE NOTED ON PLANS OR DETAILS CONTINUOUS REINFORCEMENT SHALL BE SPLICED AT
- POINTS OF MINIMUM STRESS BY LAPPING PER THE REBAR LAP SCHEDULE. 6. REINFORCING STEEL MAY BE SPLICED WITH MECHANICAL COUPLERS THAT HAVE A TENSION CAPACITY OF AT LEAST 125% OF THE STRENGTH OF THE BAR. MECHANICAL COUPLERS SHALL BE A POSITIVE CONNECTING TYPE COUPLER, AND SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED ICC RESEARCH REPORT. WHERE THESE ARE USED, SPLICES ON ADJACENT BARS SHALL BE STAGGERED
- AT LEAST 24 INCHES ALONG THE LENGTH OF THE BARS. 7. ALL VERTICAL REINFORCING IN STRUCTURAL ELEMENTS ABOVE SHALL BE SPLICED WITH MATCHING DOWELS EMBEDDED WITHIN THE FOOTINGS OR STRUCTURE BELOW. SPLICE LENGTHS SHALL COMPLY WITH REBAR LAP SCHEDULE. DOWELS INTO FOOTINGS SHALL TERMINATE WITH A STANDARD HOOK, AND SHALL EXTEND TO WITHIN 4" OF THE BOTTOM OF THE FOOTING, BUT NEED NOT EXTEND MORE THAN 20" INTO FOOTING.
- 8. DO NOT WELD REINFORCING.
- 9. REINFORCING BARS, TIES, AND TENDONS SHALL BE SUPPORTED BY NYLON CONES, PLASTIC-COATED TIE-WIRES, OR PLASTIC-COATED CHAIRS. REINFORCING IN FOOTINGS IS PERMITTED TO BE SUPPORTED ON CONCRETE DOBIES.
- 10. UNLESS NOTED OTHERWISE, HOOKS, STIRRUPS, TIES, AND OTHER BENDS IN REINFORCING STEEL SHALL MEET THE STANDARDS SET FORTH IN ACI 318/318R-19. UNLESS OTHERWISE PERMITTED BY THE ENGINEER, ALL REINFORCEMENT SHALL BE BENT COLD. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN ON THESE DRAWINGS OR OTHERWISE PERMITTED BY THE ENGINEER.
- 11. UNLESS SPECIFICALLY NOTED AND/OR DETAILED IN THE STRUCTURAL DRAWINGS CONDUIT SHALL NOT BE IN CONTACT WITH REINFORCING STEEL.

(STRUCTURAL NOTES CONTINUED ON SHEET S002)

4.5

NFORM TO ASTM C1602.

OLDS, GROOVES, ORNAMENTS, ETC. TO BE CAST IN TO

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$\begin{array}{rcl} ABV &=& A\\ ARCH &=& A\\ BLW &=& B\\ BN &=& B\\ BN &=& B\\ BRBF &=& C\\ CJP &=& C\\ CMU &=& C\\ CONC $	LECENDED OF SYMBO NCHOR BOLT BOVE RCHITECT ELOW OUNDARY NAILING OUNDARY SCREW UCKLING RESTRAINED BRACE UCKLING RESTRAINED BRACE UCKLING RESTRAINED BRACE UCKLING RESTRAINED BRACE COMPLETE JOINT PENETRATION COMPLETE JOINT PENETRATION COMPLETE JOINT PENETRATION COMPLETE JOINT PENETRATION COMPLETE JOINT PENETRATION COMPLETE JOINT PENETRATION COMPLETE PIER COMMON CRITICAL DAMETER DEFORMED BAR ANCHOR CECK BEARING ELEVATION COMPLETE DEFORMED BAR ANCHOR DEC P DECK OUNDATION OOTING INISHED FLOOR ELEVATION COMPLETE GRADE BEAM IEADED STUD ANCHOR OIST BEARING ELEVATION COMPLETE GRADE BEAM IEADED STUD ANCHOR OIST BEARING ELEVATION COMPLETE BRACE IAXIMUM IASONRY BEAM IASONRY BEAM IASONRY BEAM IASONRY DELIMINE INIMUM IASONRY DELIMINE INIMUM IECHANICAL IEZZANINE INIMUM IECHANICAL IEZZANINE INIMUM IECHANICAL IEZZANINE INIMUM IEADED, FAR SIDE RAPPROVED EQUAL OPPOSITE OWDER ACTUATED FASTENER LATE EVENTORCING EQUIRED IMILAR TEEL STUD JAME TEEL STUD JAME TEEL STUD JAME TEEL STUD JAME TEEL STUD SILL TEEL STUD SILL TEE		 FOOTING MARK TOP OF FOOTING ELEVATION SECTION MARK SHEET NUMBER TOP OF FOUNDATION WALL OR COLUMN PIER ELEVATION SHEAR WALL - SEE SCHEDULE MIN. LENGTH OF SHEAR WALL FOOTING STEP MASONRY WALL CONCRETE WALL DEPRESS FDN./WALL AND POUR FLOOR SLAB OVER AT MASONRY FOUNDATION WALL DEPRESS FDN./WALL AND POUR FLOOR SLAB OVER AT CONCRETE FOUNDATION WALL DEPRESS FDN./WALL AND POUR FLOOR SLAB OVER AT CONCRETE FOUNDATION WALL MASONRY BEAM CONCRETE BEAM HD - SIMPSON HOLDOWN SIZE POST - SIZE OF END POST CONNECTED TO HOLDOWN "A" - PLAN CONFIGURATION AT HOLDOWN AT FOUNDATION FRAMING ANGLE SEE TYPICAL DETAIL FRAMING CHANNEL SEE TYPICAL DETAIL ITEMS, DETAILS, & SYSTEMS WHICH ARE PART OF THE LATERAL FORCE RESISTING SYSTEM. BRACED FRAME MOMENT RESISTING CONNECTIONS - SEE DETAIL MOMENT RESISTING CANTILEVER CONNECTIONS - SEE DETAIL KICKER BRACE 				S24 S. State Street, Suite 444 Salt Lake City IIT 84111
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I. NON-STRUCTURAL DELEGATED DESIGNS AND DEFERRED SUBMITTALS

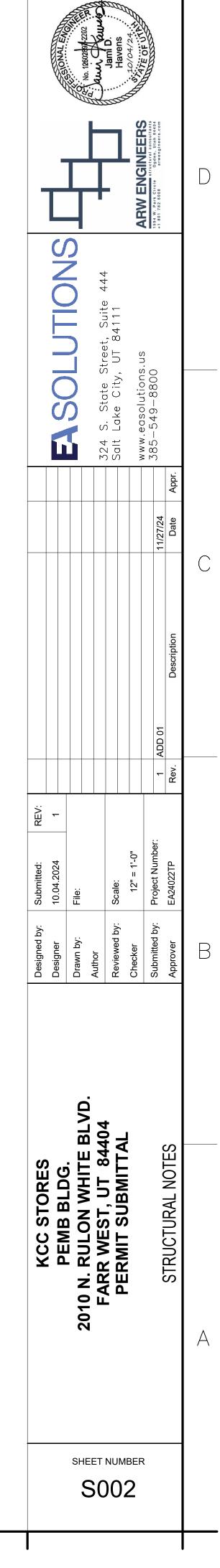
- NON-STRUCTURAL DELEGATED DESIGNS AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ITEMS NOT INCLUDED IN THE STRUCTURAL DELEGATED DESIGN SECTION. THESE ARE ITEMS THAT ARE NOT CRITICAL TO THE OVERALL PERFORMANCE OF THE STRUCTURAL SYSTEM BUT THAT IMPART LOADS AND FORCES TO THE STRUCTURAL SYSTEM.
- NON-STRUCTURAL DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN.
 ADV/ED/CIVEERS W/ULL DEV/EW/ NON STRUCTURAL DEFERRED SUBMITTALS TO VED/EV DESIGN.
- ARW ENGINEERS WILL REVIEW NON-STRUCTURAL DEFERRED SUBMITTALS TO VERIFY DESIGN CRITERIA IS COMPLIANT WITH THE APPROVED CONSTRUCTION DOCUMENTS.
 IF THE STRUCTURAL DRAWINGS INCLUDE LOADS TO ACCOMMODATE NON-STRUCTURAL ELEMENTS,
- THE CONTRACTOR SHALL SUBMIT DOCUMENTATION INDICATING THAT THE NON-STRUCTURAL ELEMENTS COMPLY WITH THE LOADING CRITERIA PROVIDED HEREIN. SUCH DOCUMENTATION SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN. 5. WHEN THE NON-STRUCTURAL DEFERRED SUBMITTAL INDICATES THAT THE ELEMENT WILL IMPART
- FORCES IN EXCESS OF LOADS THAT ARE INDICATED ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL SUBMIT A DETAILED GRAPHICAL REPRESENTATION OF THOSE DESIGN LOADS, INCLUDING MAGNITUDE, AND LOCATION. THE GRAPHIC SHALL BE ACCOMPANIED BY DOCUMENTATION INDICATING THAT THE NON-STRUCTURAL ELEMENT DESIGN COMPLIES WITH THE LOADING CRITERIA PROVIDED HEREIN. THE LETTER SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN.
- NON-STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING DEFERRED SUBMITTALS SHALL INCLUDE, BUT ARE NOT LIMITED TO :
 a. SEISMIC BRACING OF ALL ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL ITEMS WHERE REQUIRED BY THE MOST RECENT VERSION OF ASCE 7 AND THE PROJECT CONTRACT DOCUMENTS.

J. PRE-ENGINEERED BUILDING NOTES

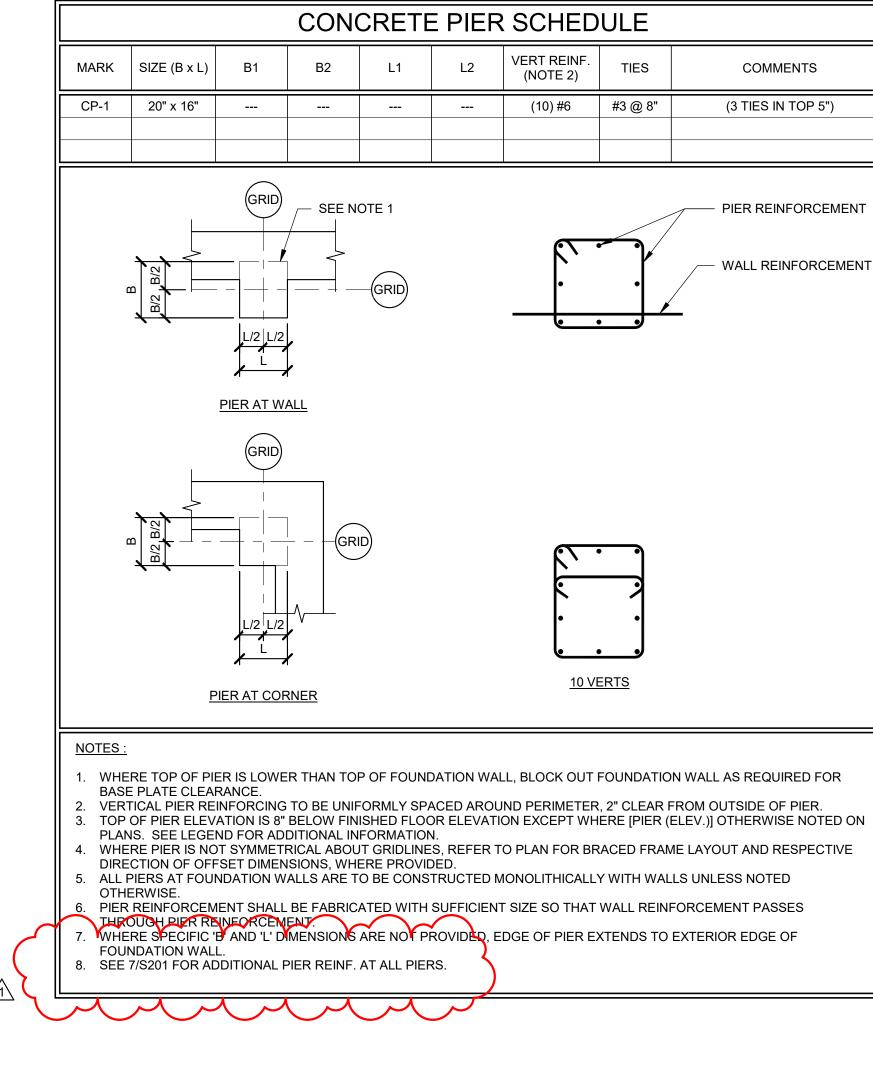
- PRE-ENGINEERED METAL BUILDING, FRAME, ROOF, WALL PANELS, ANCHOR BOLTS, ETC. SHALL BE DESIGNED AND DETAILED BY THE MANUFACTURER. SPECIFICATIONS, CALCULATIONS, REACTIONS AT FOUNDATIONS, AND PLANS SHALL BE SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT OCCURS AND SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
- GOVERNING BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC) 2021
 WIND DESIGN

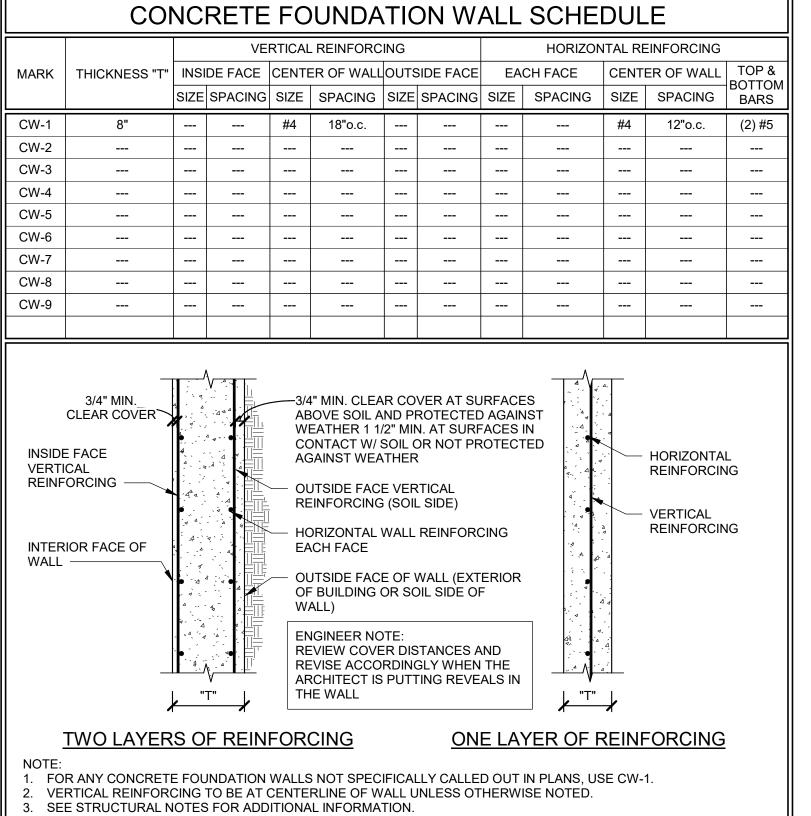
 BASIC WIND SPEED (3 SECOND GUST): 103 MPH
- b. WIND IMPORTANCE FACTOR, I.: 1.0,
- c. BUILDING CATEGORY: II d. WIND EXPOSURE: C
- e. COMPONENT AND CLADDING DESIGN WIND PRESSURE SHALL BE AS REQUIRED BY THE IBC 2021.
- SEISMIC DESIGN

 a. SEISMIC IMPORTANCE FACTOR, I_E: 1.0
- b. BUILDING CATEGORY II
- c. SITE CLASS: D DEFAULT
- d. SPECTRAL RESPONSE COEFFICIENTS: SDS = 1.18 e. SEISMIC DESIGN CATEGORY: D
- f. LATERAL SUPPORT OF BUILDING TO BE DESIGNED BY BUILDING MANUFACTURER MAY BE BRACING, FRAMES, ETC.
- ARW ENGINEERS EXPRESSLY DISCLAIMS RESPONSIBILITY FOR THE ENGINEERING OF THE PRE-ENGINEERED METAL BUILDING.





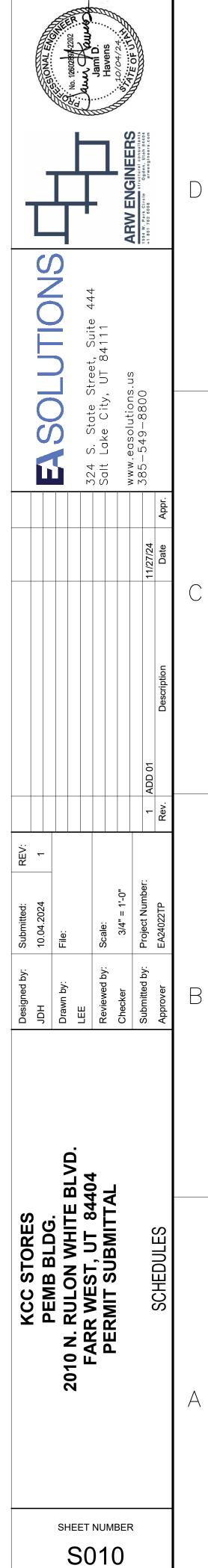




4. EXTEND HORIZONTAL REINFORCING AROUND CORNERS OR ADD CORNER BARS AND LAP EACH WAY PER TYPICAL DETAIL.

STANDARD HOOK & BEND SCHEDULE										
TYPE OF STANDARD HOOK	BAR SIZE	MIN. INSIDE BEND DIA. FOR STIRRUPS, TIES, AND HOOPS, in	STRAIGHT EXTENSION lext FOR STIRRUPS, TIES, AND HOOPS in.	MIN. INSIDE BEND DIA. FOR OTHER BARS, in	STRAIGHT EXTENSION ℓ_{ext} FOR OTHER BARS in.	TYPE OF STANDARD HOOK				
	#3 - #5	4d _b	GREATER OF 6db AND 3"	64		POINT AT WHICH BAR				
00° UOOK	#6 - #8	6db	12db	- 6d⊾		90° BEND				
90° HOOK	#9 - #11	N/A	N/A	8d _b	12d⊾	DIA.				
	#14 - #18	N/A	N/A	10db		l L L				
	#3 - #5	4d _b	GREATER OF 6d _b AND 3"	N/A	N/A	ទឹ 135° BEND				
135° HOOK	#6 - #8	6db	6d _b GREATER OF 6d _b AND 3"	N/A	N/A	DIA.				
	#3 - #5	4d _b	GREATER OF 4d₀ AND 2.5"	6d⊳		ප 				
180° HOOK	#6 - #8	6d _b	GREATEN OF 446 AND 2.3		GREATER OF 4d₅	DIA.				
	#9 - #11	N/A	N/A	8d₀	AND 2.5"	lext				
	#14 - #18	N/A	N/A	10d _b		<i>₩</i>				

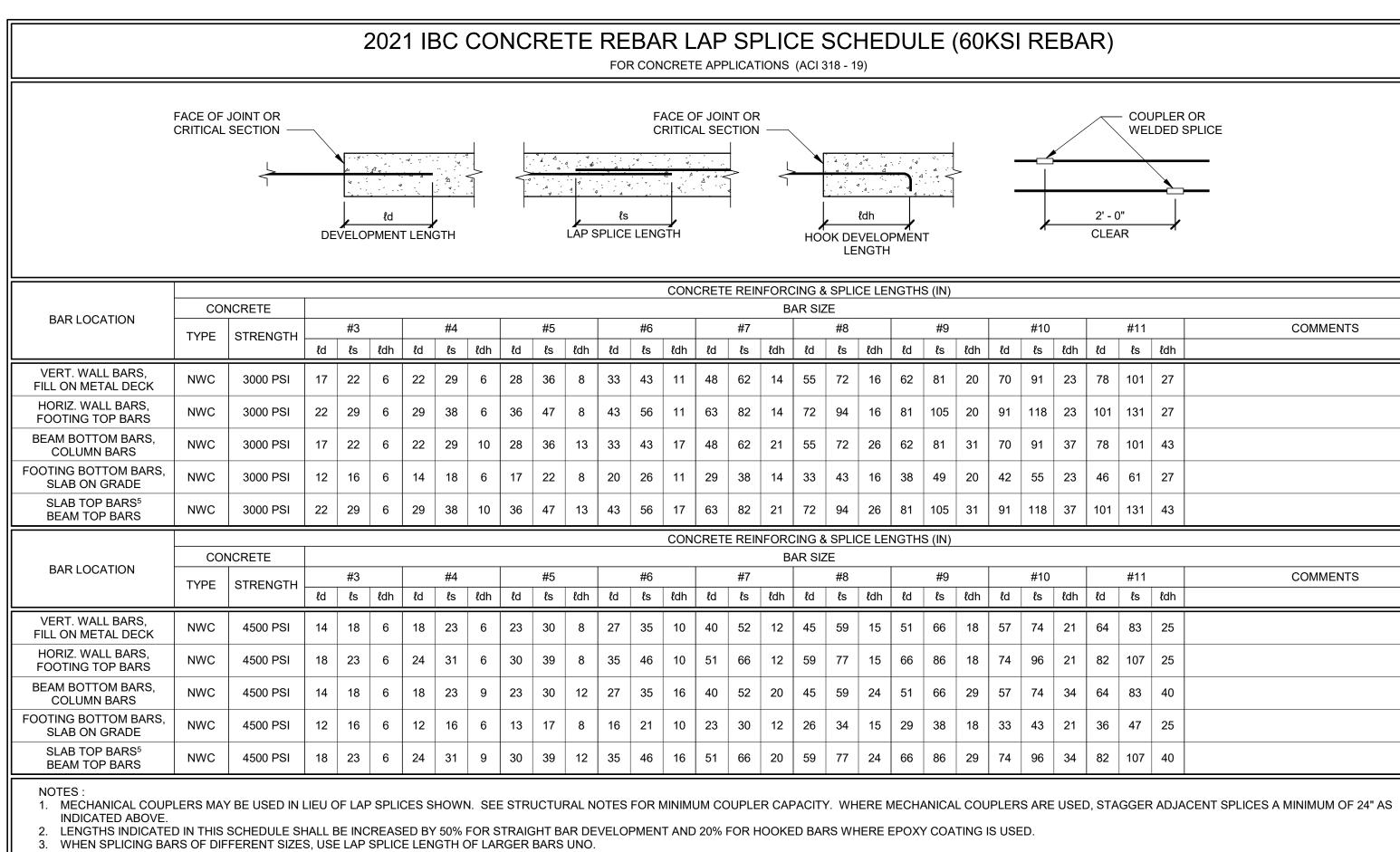
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	F11	11'-0"	11'-0"	24"	(11)	#7	(11)	#7		REINFORCE TOP & BOTTOM
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TYPICAL FOOTING REINFORCING — TOP BARS SHALL BE ADDED AT	Ţ	YP. FO								



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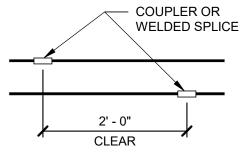
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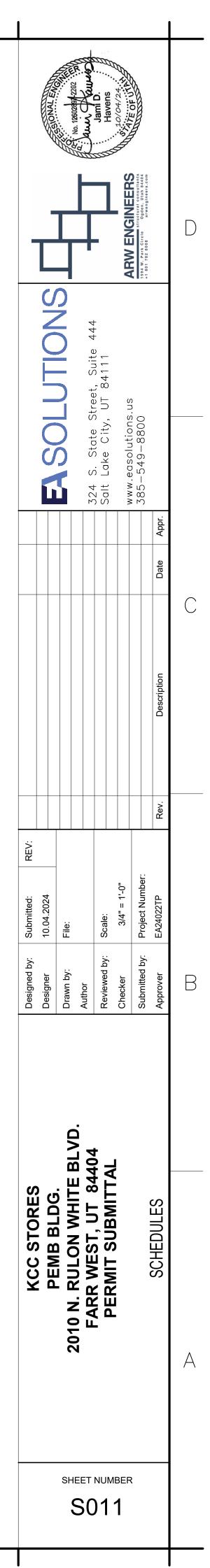


4. SPLICE BARS LARGER THAN #11 USING MECHANICAL COUPLERS. 5. SLAB TOP BARS ONLY FOR SLABS 12" OR GREATER IN THICKNESS.

3



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	#8			#9			#10			#11		COMMENTS
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72	94	26	81	105	31	91	118	37	101	131	43	
ING 8	SPLI	CE LEI	NGTH	S (IN)								
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	110			#9			#10			#11		COMMENTS
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			SPECIAL INSPEC	TION S
		E	STABLISHED PER 2018 IBC	
ITEM	CONTINUOUS ³	PERIODIC ³	REFERENCE	
PRE-FAB CONSTRUCTION (IBC 1704.2)			REFERENCE NOTES P1 & P2	P1. P2.
CONCRETE CONSTRUCTION (IBC 1705.3)			SEE IBC TABLE 1705.3 - REF. NOTE C1	C 1.
REINFORCING STEEL PLACEMENT		•		
WELDING OF REINFORCING STEEL	•	•	REFERENCE NOTE C2	C 2.
EMBEDDED BOLTS & PLATES	•			
VERIFYING REQUIRED DESIGN MIX		•		C 3.
CONCRETE PLACEMENT / SAMPLING	•		REFERENCE NOTE C3	C 4.
CURING TEMPERATURE / TECHNIQUES		•		C 5.
VERIFICATION OF IN-SITU STRENGTH		•	REFERENCE NOTE C4	
EPOXY / EXPANSION ANCHOR PLACEMENT	•	•	REFERENCE NOTE C5	
SOILS (IBC 1705.6)			REFERENCE NOTE F1	F 1.
VERIFY ADEQUATE MATERIALS BELOW FOOTINGS		•	REFERENCE NOTE F1	F 2.
EXCAVATIONS EXTEND TO PROPER DEPTH AND REACH PROPER MATERIAL		•	REFERENCE NOTE F2	
CLASSIFY & TEST CONTROLLED FILL MATERIALS		•	REFERENCE NOTE F2	
PERFORM MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	•		REFERENCE NOTE F1	
PROPERLY PREPARED SITE AND SUB-GRADE PRIOR TO FILL.		•	REFERENCE NOTE F1	

GENERAL SPECIAL INSPECTION NOTES : THE ITEMS MARKED WITH A "O" IN THE SPECIAL INSPECTION SCHEDULE SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATIONS, AND THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL. ANY ITEMS WHICH FAIL TO COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, ARCHITECT, AND ENGINEER PRIOR TO COMPLETION OF THAT PHASE OF WORK. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS. ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT. CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR 3. INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK. (IBC SECTION 202)

SCHEDULE ^{1, 2}

ON 110 AND CHAPTER 17

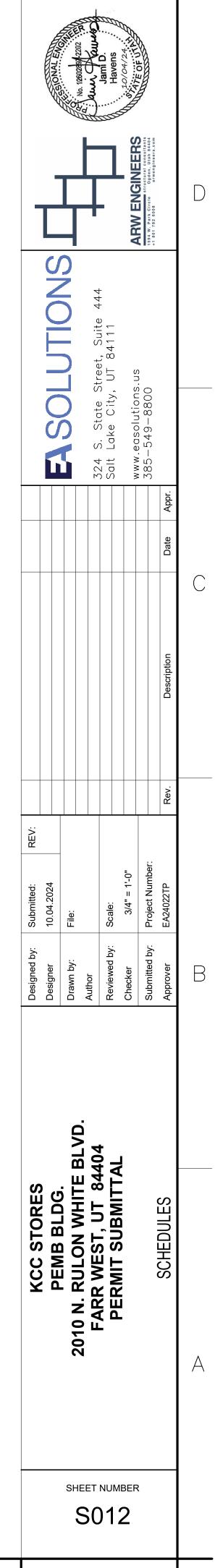
COMMENTS

SPECIAL INSPECTION IS NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION, PROVIDED THE FABRICATOR COMPLIES WITH IBC. INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE. SPECIAL INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE. (SEE NOTE 2).

SPECIAL INSPECTION IS NOT REQUIRED FOR CONC. ISOLATED SPREAD FOOTINGS, CONTINUOUS FOOTINGS, NON-STRUCTURAL SLABS, FOUNDATION WALLS, PATIOS, DRIVEWAYS, AND SIDEWALKS PROVIDED THE REQUIREMENTS OF IBC 1705.3 ARE MET. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR VERIFICATION OF THE WELDABILITY OF REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS, AND SHEAR REINFORCEMENT. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR WELDING OF OTHER ASTM A 706 REINFORCING STEEL NOT INCLUDED IN THE CONTINUOUS SPECIAL INSPECTION REQUIREMENTS NOTED ABOVE. PERFORM AIR, SLUMP AND TEMP. TESTS WHEN CONCRETE SAMPLES ARE CAST. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR VERIFICATION OF IN-SITU CONCRETE STRENGTH FOR POST-TENSIONED CONCRETE

PRIOR TO TENSIONING TENDONS OR REMOVING SHORING OR FORMS. EPOXY AND EXPANSION ANCHORS INTO MASONRY OR CONCRETE MAY BE USED ONLY WHEN APPROVED BY ARCHITECT. AND/OR ENGINEER USING AN APPROVED PRODUCT WITH CURRENT PUBLISHED ICC RESEARCH REPORT NUMBERS. COORDINATE CONTINUOUS/PERIODIC SPECIAL INSPECTION REQUIREMENTS WITH ICC REPORT.

SPECIAL INSPECTION OF SOILS SHALL REFERENCE THE APPROVED SOILS REPORT TO DETERMINE COMPLIANCE. WHERE SOILS REPORT IS NOT PROVIDED SPECIAL INSPECTIONS ARE REQUIRED TO VERIFY THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL IS NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM D 1557.



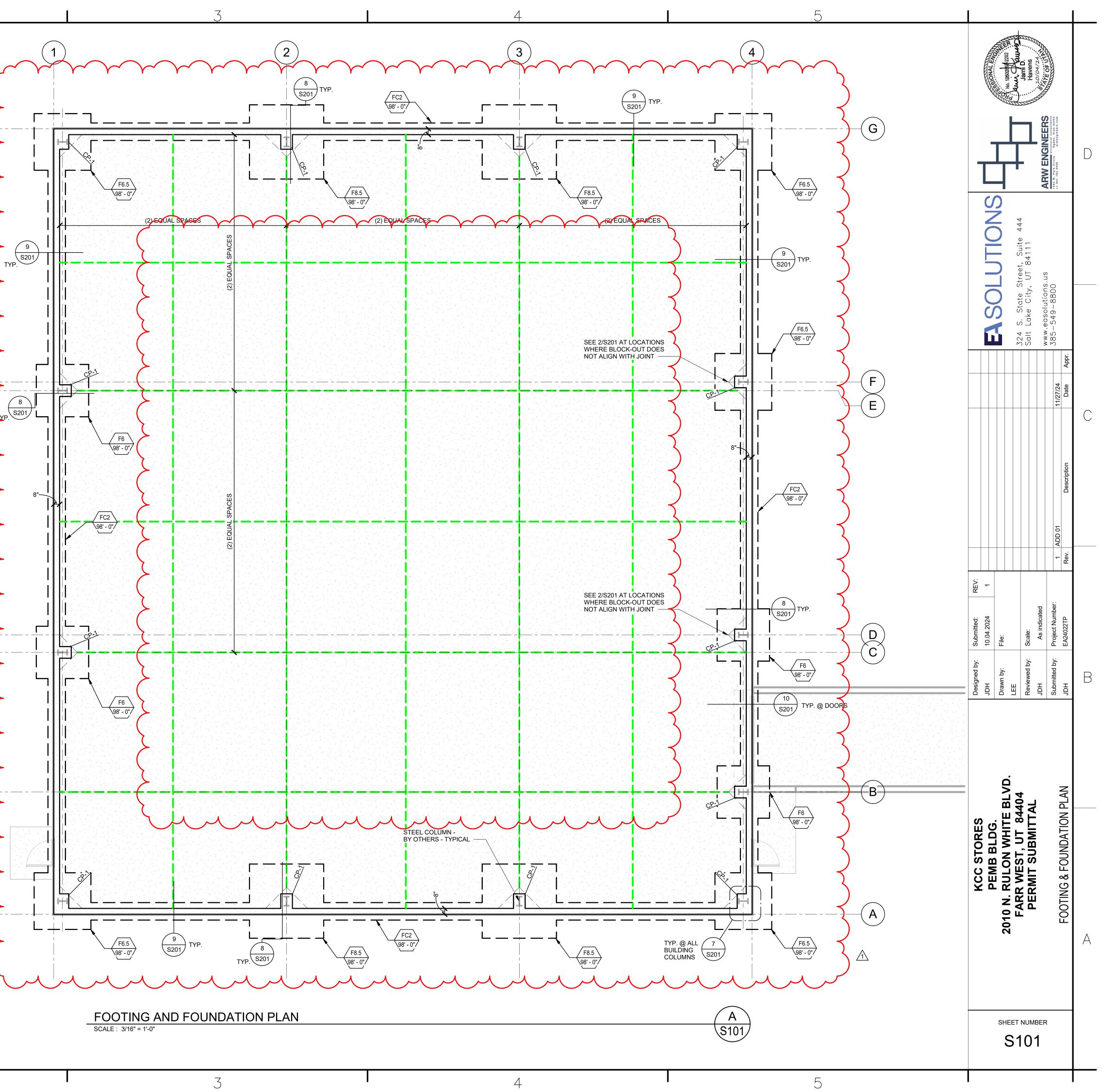
FOOTING & FOUNDATION NOTES :

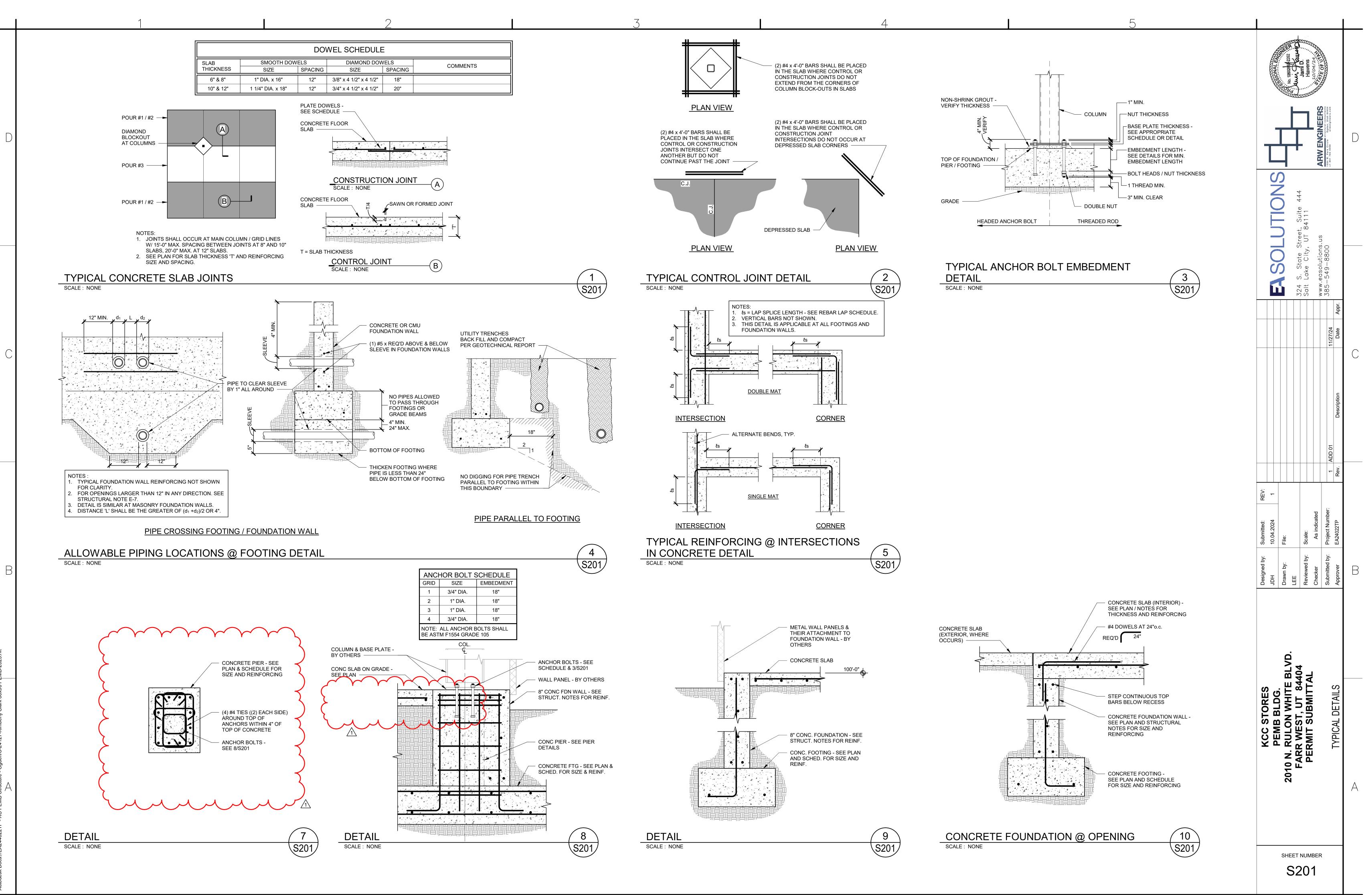
- 1. SEE SHEET S001 & S002 FOR GENERAL STRUCTURAL NOTES.
- 2. ALL FOOTINGS SHALL BE PLACED ON SOIL WHICH HAS BEEN PREPARED FOR THE BEARING PRESSURE SHOWN IN THE STRUCTURAL NOTES.
- VERIFY ALL DIMENSIONS WITH DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND.
 SOLID GROUT ALL MASONRY COURSES BELOW FINISHED FLOOR OR EXTERIOR GRADE (WHICHEVER IS HIGHER).
- SEE SHEET S010 FOR FOOTING SCHEDULE.
 PROVIDE DOWELS IN FOOTINGS / FOUNDATIONS TO MATCH VERTICAL WALL REINFORCING U.N.O.
- 7. SEE SHEET S201 FOR TYPICAL FOOTING AND FOUNDATION DETAILS. 8. ALL EXTERIOR WALL FOOTINGS TO BEAR A MINIMUM DIMENSION BELOW EXTERIOR GRADE AS NOTED IN GENERAL STRUCTURAL NOTES. FOUNDATION WALLS ARE DESIGNED AND DETAILED FOR THE COMPLETED CONDITION. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. BACKFILLED WALLS SHALL BE
- ADEQUATELY BRACED DURING CONSTRUCTION AND BACKFILLING TO PRODUCE PLUMB AND TRUE FINISHED WALLS. 10. ALL ANCHORS, HOLDOWNS, ANCHOR BOLTS, DOWELS, EMBEDDED ITEMS, ETC. SHALL BE HELD IN
- PLACE PRIOR TO AND DURING CONCRETE AND/OR GROUT PLACEMENT. 11. COORDINATE ALL FOOTING DEPTHS (INTERIOR AND EXTERIOR) WITH DRAINS, CONDUITS, ETC. THAT
- MAY INTERFERE WITH FOOTINGS. ALL CONCRETE PIERS BELOW COLUMNS SHALL BE CP-1 UNLESS NOTED OTHERWISE. SEE THE PIER SCHEDULE ON S010 FOR PIER SIZE AND REINFORCEMENT.
- 13. ALL FOUNDATION WALLS SHALL BE CW-1 U.N.O. SEE SCHEDULE ON S010.

CONCRETE SLAB NOTES :

- SLAB ON GRADE SHALL BE 10" THICK CONCRETE U.N.O. SLAB SHALL BE UNDERLAIN BY FREE DRAINING MATERIAL AS PRESCRIBED IN THE SOILS REPORT.
- 2. SEE SHEET S201 FOR CONTROL AND CONSTRUCTION JOINT INFORMATION. 3. REINFORCE SLAB WITH #5 of 12"0.c. EACH WAY TOP AND BOUTOM.

4.	. — —		ES JOINT LO	CATIONS/ E	BLOCKOUTS	3 - SEE 1/S2	01	•	•	
5.	THE SLA	AB ON GRADE	IS A STRUC	TURAL DIAF	PHRAGM. T	HE SLAB M	AY NOT BE	CUT IN ANY	LOCATION. I	N
	ADDITIC	N, SPECIAL I	SPECTION (OF THE SLA	B REINFOR	CEMENT IS	REQUIRED	PER IBC 20	21 SECTION	
	1705.3									





5

WSB LETTER OF CERTIFICATION

Reference: KIMBERLY CLARK 2010 RULON WHITE BLVD DGDEN, UT

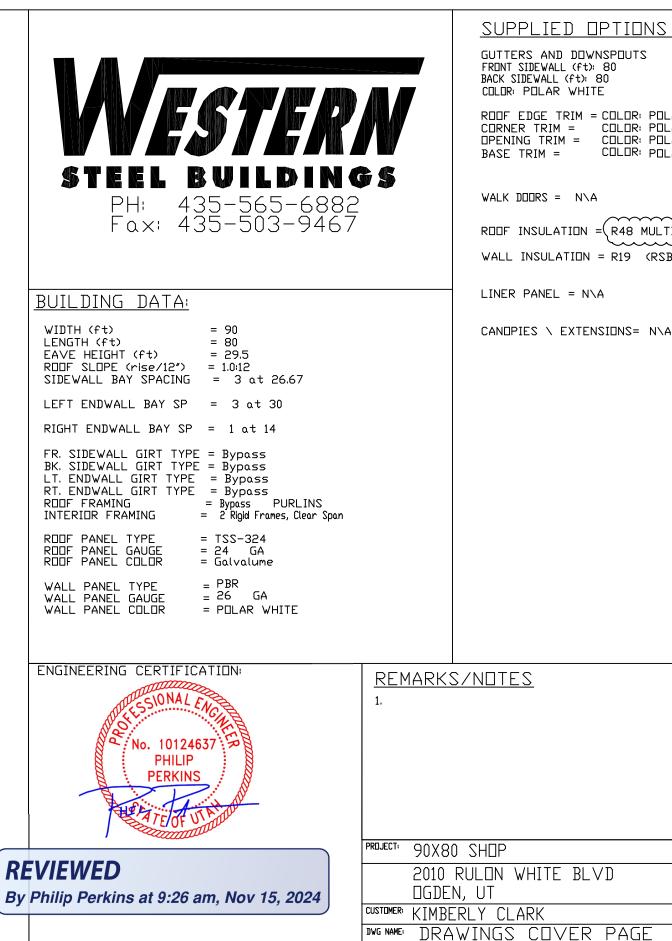
DATE 9/10/24 Job No. SBI37662

To whom it may concern:

This is to certify that the above referenced building components furnished by WSB are designed with good engineering practice and in accordance with the order documentation and the applicable structural design provisions set forth in the Applicable MBMA Low Rise Building Systems Manual, the applicable AISC and AISI Manuals, and the IBC 21 code, to sustain the requested design loads, specifically as follows:

Risk/Occupancy Category - II - Normal Wind Exposure C Live Load (Roof) 20.00 psf Dead Load 2.90 psf Rain Intensity(5yr) 2.9900 in/hr Rain Intensity(25yr) 4.8600 in/hr Ground snow Pg 43 psf	Terrain_Category C Building Enclosure Enclosed Live Load (Frame) 20.00 psf Collateral Load 5.00 psf
Snow Exposure coeff Ce 1.0000 Slippery Roof Coeff Cs Y Snow Importance 1.00 Wind Load (Vult) 115 mph Wind Load (Vasd) 89.08 mph Cpi_P 0.18 Component Loads= 25.981 / -34.642 psf	Thermal Coeff Ct 1.20 Slope Factor coeff 1.0000 Flat Roof Snow Load Pf 36.12 psf Wind Importance* 1.00 Cpi_S0.18
Seismic Importance 100 Ss 1.48 S1 0.54 Sds 1.1 Sdc D Site_Class d Seismic base shear, longitudinal 48.59 kips Seismic base shear, transverse 49.21 kips FRAME.R 3.2500 BRACE_SW.R 3.2500 Cs=(Sds/(I*R)) Equivalent Lateral force procedure used Basic seismic resisting systems: Moment fran Special loads: as required (crane loads, mez	mes, braced frames, diaphragm
* Wind Importance is not applicable to all bu When not prescribed by code, Importance This certification is limited to the structur secondary, and roof/wall covering manufact doors, windows, louvers, translucent panels, Also excluded are other parts of the proj foundations, mechanical equipment, erection,	is taken as 1.0 in calculations. ral design of the frames, ured by WSB. Accessory items such as and ventilators are not included. ect such as masonry, footings, and

DEFLECTION LIMITS WALL GIRT, MAX. DEFL. L/span = 90 ROOF PURLIN, L.L. DEFL. L/span = 180 RIGID FRAME VERT. DEFL. L/span = 180 RIGID FRAME HORIZ. DEFL. H/span = 60



SUPPLIED OPTIONS AND ACCESSORIES

HE LES

AND AR CUSTON DRAWNY HANDS

ISSUED FOR CONSTRUCTION

√NSP⊡UTS		
): 80	FREINT Downspouts:	4
80	BACK Downspouts	4
TE	COLOR: POLÀR WHIT	ΓE

COLOR:	POLAR	WHITE
COLOR:	POLAR	WHITE
COLOR:	POLAR	WHITE
COLOR:	POLAR	WHITE

=(R48	MULTI-LAYER	ENERGY	SAVER	(WSB)	A
	(RSB)			····	/

	BLDG SIZE:	00 50	JOB NUMBER
	90.00' × 80.00		V O D O T C C O
VD	DESIGN: PP	^{drawn:} MH	WSB37662
	Date: 11/4/24	CHECK:	ACCT# 14046
	SCALE: NONE		DRAWING NUMBER
R PAGE			SHEET 1 DF 15

GENERAL NOTES: MBM=METAL BUILDING MANUFACTURER

MANUFACTURING AND FABRICATION PROCEDURES SHALL BE IN ACCORDANCE WITH MBM'S STANDARD PRACTICES WHICH ARE BASED ON THE APPLICABLE SECTIONS RELATING TO DESIGN REQUIREMENTS, ALLOWABLE STRESSES, AND FABRICATION TOLERANCES PER THE LATEST EDITIONS OF 'MBMA-COMMON INDUSTRY PRACTICES' AND 'AISC CODE OF STANDARD PRACTICE' AND THE 'AWS STRUCTURAL WELDING CODES D1.1 & D1.3

2. MATERIALS	ASTM DESIGNATION	MIN. YIELD
HOT ROLLED SHAPES	A36	Fy= 36 ksi
	A572	
STRUCT. STEEL SHEET	A1011 (SS)	Fy= 55 ksi
FLANGE/END PLATE M	ATERIAL A529	Fv= 55 ksi
COLD FORM. LT. GA. S	SHAPES A1011 (SS)	Fy= 55 ksi Fy= 80 ksi Fy= 80 ksi
ROOF SHEETING	A792 (SS)	Fy= 80 ksi
WALL SHEETING	A792 (SS)	Fy= 80 ksi
MACHINE BOLTS	A307	Fy= 36 ksi
HIGH STR. BOLTS	F3125 (A325)	Fy= 120 ksi
ANCHOR BOLTS (if sup	oplied) A36/F1554	Fy= 36 ksi
PIPE (interior or posts	A53, GRADE A or B	Fy= 30 ksi
RECTANGULAR TUBE (nterior or posts) A500, G	RADE B ⊦y= 46 ksi

3. PRIMER

SHOP PRIMER PAINT IS A RUST INHIBITIVE PRIMER WHICH MEETS OR EXCEEDS THE END PERFORMANCE OF FEDERAL SPECIFICATIONS TT-P-636 AND TT-P-664 AND IS A RED OXIDE OR GRAY PRIMER. PRIMER IS NOT INTENDED FOR LONG TERM EXPOSURE TO THE ELEMENTS. MBM IS NOT RESPONSIBLE FOR ANY DETERIORATION OF THE SHOP PRIMER AS A RESULT OF IMPROPER HANDLING AND/OR STORAGE. MBM SHALL NOT BE RESPONSIBLE FOR ANY FIELD APPLIED PAINT AND/OR COATINGS. (Section 6.5 AISC Code of Standard Practice, 9th ED.)

4. A325 BOLT TIGHTENING REQUIREMENTS

ALL HIGH STRENGTH BOLTS ARE A325-N UNLESS SPECIFICALLY NOTED OTHERWISE. STRUCTURAL BOLTS SHALL BE TIGHTENED BY THE TURN OF NUT METHOD IN ACCORDANCE WITH THE CURRENT EDITION OF THE 'AISC STEEL CONSTRUCTION MANUAL'. A325 BOLTS ARE SUPPLIED WITHOUT WASHERS UNLESS NOTED OTHERWISE. UNLESS NOTED OTHERWISE, ALL BOLTED CONNECTIONS ARE DESIGNED AS BEARING TYPE CONNECTIONS WITH THE BOLT THREADS INCLUDED IN THE SHEAR PLANE.

5. ERECTION NOTE: (ERECTION AND UNLOADING NOT BY MBM)

ALL BRACING SHOWN AND PROVIDED BY MBM FOR THIS BUILDING IS REQUIRED AND SHALL BE INSTALLED BY THE ERECTOR AS A PERM-ANENT PART OF THE STRUCTURE. IF ADDITIONAL BRACING IS REQUIRED FOR STABILITY DURING ERECTION, IT SHALL BE THE ERECTOR'S RESPONSIBILITY TO DETERMINE THE AMOUNT OF SUCH BRACING AND TO PROCURE AND INSTALL AS NEEDED.

6. SHORTAGES (SEE MBMA 5.2.1)

THE QUANTITY OF CRATES AND STRUCTURAL ITEMS SHIPPED SHALL BE CHECKED AND ANY SHORTAGES OR OTHER DISCREPANCIES WITH RESPECT THERETO, SHALL BE REPORTED TO MBM ON THE DAY OF DELIVERY AND SUCH DISCREPANCY CONFIRMED IN WRITING WITHIN (7) SEVEN DAYS. WITH RESPECT TO ITEMS OR QUANTITIES WITHIN UNOPENED CRATES AND ANY LATENT DEFECTS, IT SHALL BE THE DUTY OF THE PURCHASER TO NOTIFY MBM ON THE DATE SUCH DEFECT OR SHORTAGE IS DISCOVERED AND CONFIRM SUCH NOTICE IN WRITING TO MBM WITHIN (7) DAYS THEREOF.

7. CORRECTIONS OF ERRORS AND REPAIRS (SEE MBMA 6.10)

CLAIMS FOR CORRECTION OF ALLEGED MISFITS WILL BE DISALLOWED UNLESS MBM SHALL HAVE RECEIVED PRIOR NOTICE THEREOF AND ALLOWED REASONABLE INSPECTION OF SUCH MISFITS. THE CORRECTION OF MINOR MISFITS BY USE OF DRIFT PINS TO DRAW THE COMPONENTS INTO LINE, MODERATE AMOUNTS OF REAMING, SHIMMING, CHIPPING AND CUTTING, AND THE REPLACEMENT OF MINOR SHORTAGES OF MATERIAL ARE A NORMAL PART OF ERECTION AND ARE NOT SUBJECT TO CLAIM. NO PART OF THE BUILDING MAY BE RETURNED FOR ALLEGED MISFITS WITHOUT THE PRIOR APPROVAL OF MBM

GENERAL NOTES (CONT.):

8. CLOSURE STRIPS ARE FURNISHED FOR APPLICATION INSIDE - Under roof panels at eave.

OUTSIDE - Between endwall panels and rake trim.

- Under continuous ridge vent skirts. Note: Conditions vary at hips, valleys, fascias, mansards and canopies. Refer to Erection Drawings.

9. VERTICAL DEFLECTION OF RIGID FRAMES

Buildings which are loaded in regions of the country where snow and ice accumulation may accur should be aware that purlins and rigid frames particularly long span frames, will deflect vertically when subjected to snow and ice loads, two areas which require special precaution during interior erection and are greatly affected by vertical deflection, should be carefully considered:

10.) Metal Studs should never be attached directly to rigid frames or purlins without slotted vertical clips. Even a small vertical deflection can cause a metal stud to bow out significantly.

11.) Care should be taken when supporting acoustical or other type hanging ceiling tiles from purlins and rigid frames. In hallways or small rooms the tiles should be supported from the permanent walls and partitions rather then the purlins. In larger rooms where the ceiling must be supported from the roof system, it is important to allow the ceiling to deflect at the outside walls at the same rate it deflects in the center of the room. If the ceiling is supported continuously along any non-vielding wall while rest of the ceiling is deflecting, obvious problems occur.

12. ROOF PENETRATION WARRANTY CONSIDERATIONS If a weather tightness warranty is to be provided for your project, MBM requires that the roof curbs and decktights be pre-approved by MBM. All roof curbs must be compatible with the roof panel. The roof curbs should have male and female side ribs and water diverters at the upslope side of the roof curbs. The following manufactures are currently pre-approved:

Phone Manufacturer Location Web Site 800-284-1412 LM Curbs Longview, TX Imcurbs.com Buildex itwbuildex.com varies Dyna-Flash varies dynamicfastener.com ítwbuildex.com Dek-Tite varies

10. SEAMER RENTAL INFORMATION

MBM utilizes Quality Roof Seamers Inc. for all seamer rental needs. It is your responsibility to obtain seamer rental for your project needs unless otherwise stated in the contract documents. Contact information follows:

Quality Roof Seamers Inc. 8265 MS-178 Olive Branch, MS 38654 (622) 895-1222 http://www.qualityroofseamers.com/

Direct Rental Addresse: http://www.gualityroofseamers.com/manufacture/60-sbi-metal-buildings



By Philip Perkins at 9:26 am, Nov 15, 2024

REVIEWED



BUYER/END USE CUSTOMER RESPONSIBILITIES

- to fabricate upon receiving such.
- exclusions from the architectural plans and/or specifications.
- SBI standards for quality control of welds is visual inspection during fabrication.
- shall govern. (Section 3, AISC Code of Standard Practices, 9th edition)
- concepts, assumptions, and loading. (Section 4 AISC Code and MBMA 3.3.3)
- 5. The BUYER/END USER is responsible for overall project coordination. All interface, compatibility, and design
- only final "FOR CONSTRUCTION" drawings for this use. (Section 7 AISC Code)
- of anchor bolt forces to the concrete or the adequacy of the anchor bolt in relation to the concrete. 3.2.2 MBMA Low Rise Building Systems Manual)
- others. (Section 6-10 MBMA Manual)
- drawings. (Section 7 'AISC Code, MBMA Manual Section 8.6)
- off from these materials are highly corrosive to the Aluminum Zinc coatings.
- to placing the second lapped airt.

_	PROJECT: 90X80 SHOP	BLDG SIZE:	BLDG SIZE: 90.00' x 80.00' x 29.50'		
	2010 RULON WHITE BLVD	DESIGN:		WSB37662	
	OGDEN. UT	DATE: 10/1/24	CHECK:		
	CUSTOMER: KIMBERLY CLARK	SCALE: NONE	REV. NO:	DRAWING NUMBER	
	DWG NAME: GENERAL NOTES			SHEET 2 OF 15	

. It is the responsibility of the BUYER/END USER to obtain appropriate approvals and secure necessary permits for City, County, State, or Federal Agencies as required, and to advise/release MBM to proceed

2. MBM's standard specifications apply unless stipulated otherwise in theContract Documents. MBM's design, fabrication, quality criteria, standards, practices, methods, and tolerances shall govern the work with any other interpretations to the contrary notwithstanding. It is understood by both Parties that the BUYER/END USER is responsible for clarification of inclusions or

SBI is not responsible for any testing of welds, screws, bolts, etc... Any testing including non-destructive testing of welds is the responsibility of the Buyer/End User to procure.

3. In case of discrepancies between MBM's structural steel plans and plans for other trades, MBM's plans

Approval of MBM drawings and calculations indicates that MBM has correctly interpreted and applied the Contract Documents. This approval consitutes the contractor/owners acceptance of the MBM's design

5. Once the BUYER/END USER has signed MBM's Approval Package and the project is released for fabrication, changes shall be billed to the BUYER/END USER including material, engineering, and other cost. An additional fee may be charged if the project must be moved from the fabrication and shipping sched..

considerations concerning any materials not furnished by MBM are to be considered and coordinated by the BUYER/END USER. Specific design criteria concerning this interface between materials must be furnished before release for fabrication or MBM's assumptions will govern. (Section 4 and Commentary, AISC)

7. It is the responsibility of the BUYER/END USER to insure that MBM's plans comply with the applicable requirements of any governing building authorities. The supplying of sealed engineering data and drawings for the metal building system does not imply or constitute an agreement that MBM or its design engineers are acting as the 'Engineer of Record' or 'Design Professional' for a construction project. These drawings are sealed only to certify the design of the structural components furnished by MBM.

B. The BUYER/END USER is responsible for setting of anchor bolts and erection of steel in accordance with MBM's "FOR CONSTRUCTION" drawings only. Temporary supports such as guys, braces, falsework, cribbing or other elements required for the erection operation shall be determined and furnished and installed by the erector. No items should be purchased from a preliminary set of drawings, including anchor bolts. Use

A CUA

ISSUED FOR CONSTRUCTION

9. MBM is responsible for the design of the anchor bolt to permit the transfer of forces between the base plate and the anchor bolt in shear, bearing, and tension, but is not responsible for the transfer Unless otherwise provided in the Order Documents, MBM does not design and is not responsible for the design, material and construction of the foundation or foundation embedments. The BUYER/END USER should assure himself that adequate provisions are made in the foundation design for loads imposed by calumn reactions of the building, other imposed loads, and bearing capacity of the soil and other conditions of the building site. It is recommended that the anchorage and foundation of the building be designed by a Registered Professional Engineer experienced in the design of such structures. (Section

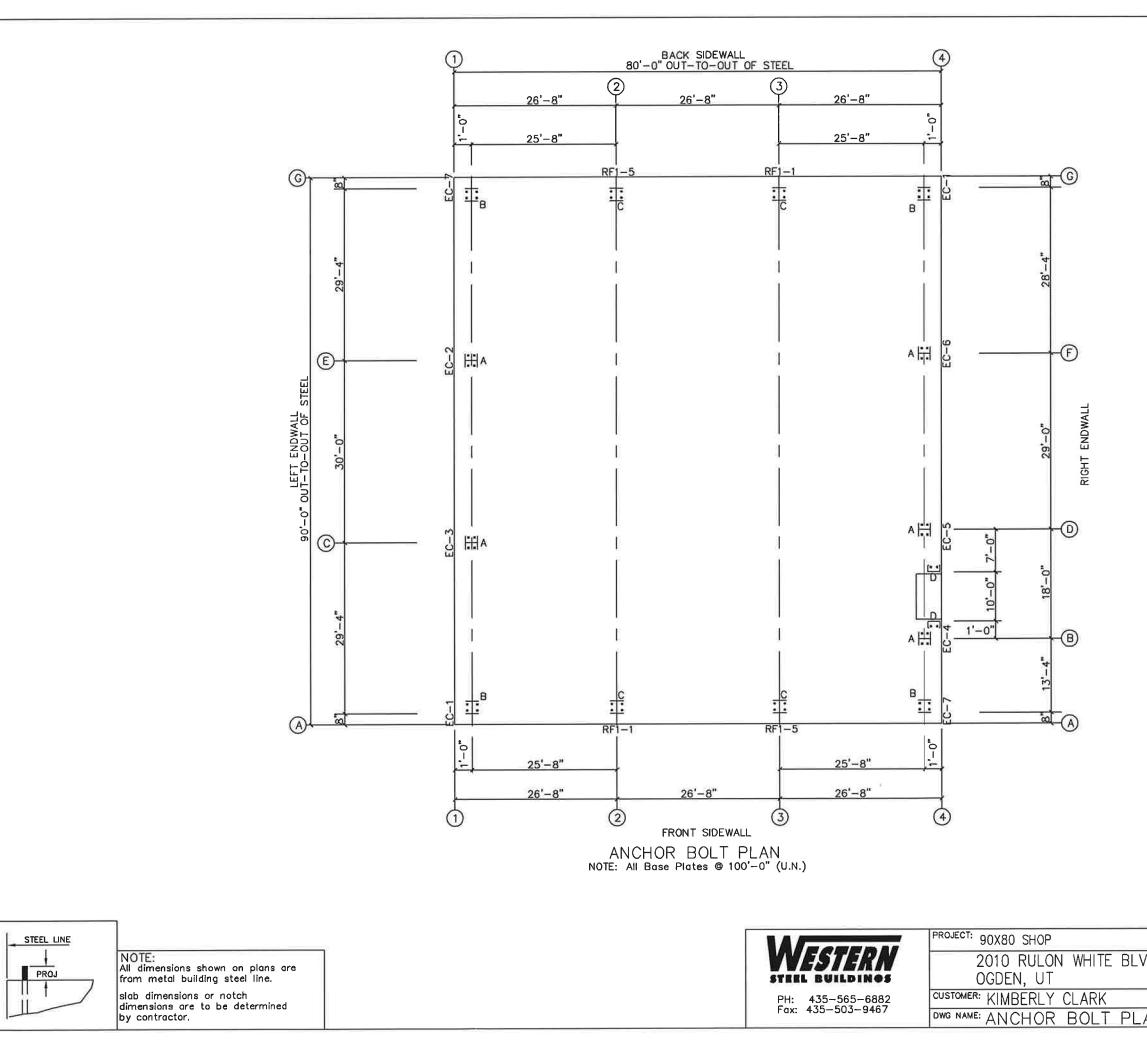
10. Normal erection operations include the corrections of minor misfits by moderate amounts of reaming, chipping, welding, or cutting, and the drawing of elements into line through the use of drift pins. Errors which cannot be corrected by the foregoing means or which require major changes in member design are to be reported immediately to MBM by the BUYER/END USER, to enable whoever is responsible either to correct the error or to approve the most efficient and economic method of correction to be used by

I. Neither the fabricator nor the BUYER/END USER will cut, drill, or otherwise alter his work, or the work of other trades, to accommodate other trades, unless such work is clearly specified in the contract documents. Whenever such work is specified. the BUYER/END USER is responsible for furnishing complete information as to materials, size, location, and number of alterations prior to preparation of shop

12. WARNING: In no case should Aluminized Zinc steel panels be used in conjunction with lead or copper. Run-

13. SAFETY COMMITMENT: MBM has a commitment to manufacture quality building components that can be safely erected. However, the safety commitment and job site practices of the erector are beyond the control of MBM. It is strongly recommended that safe working conditions and accident prevention practices be the top priority of any job site. Make sure that all Local, State, and Federal safety and health stand— ards are always followed. Insure that employees are aware and trained in emergency procedures.

14. Please note OSHA now requires the first girt placed in all lapping conditions be firmly attached prior



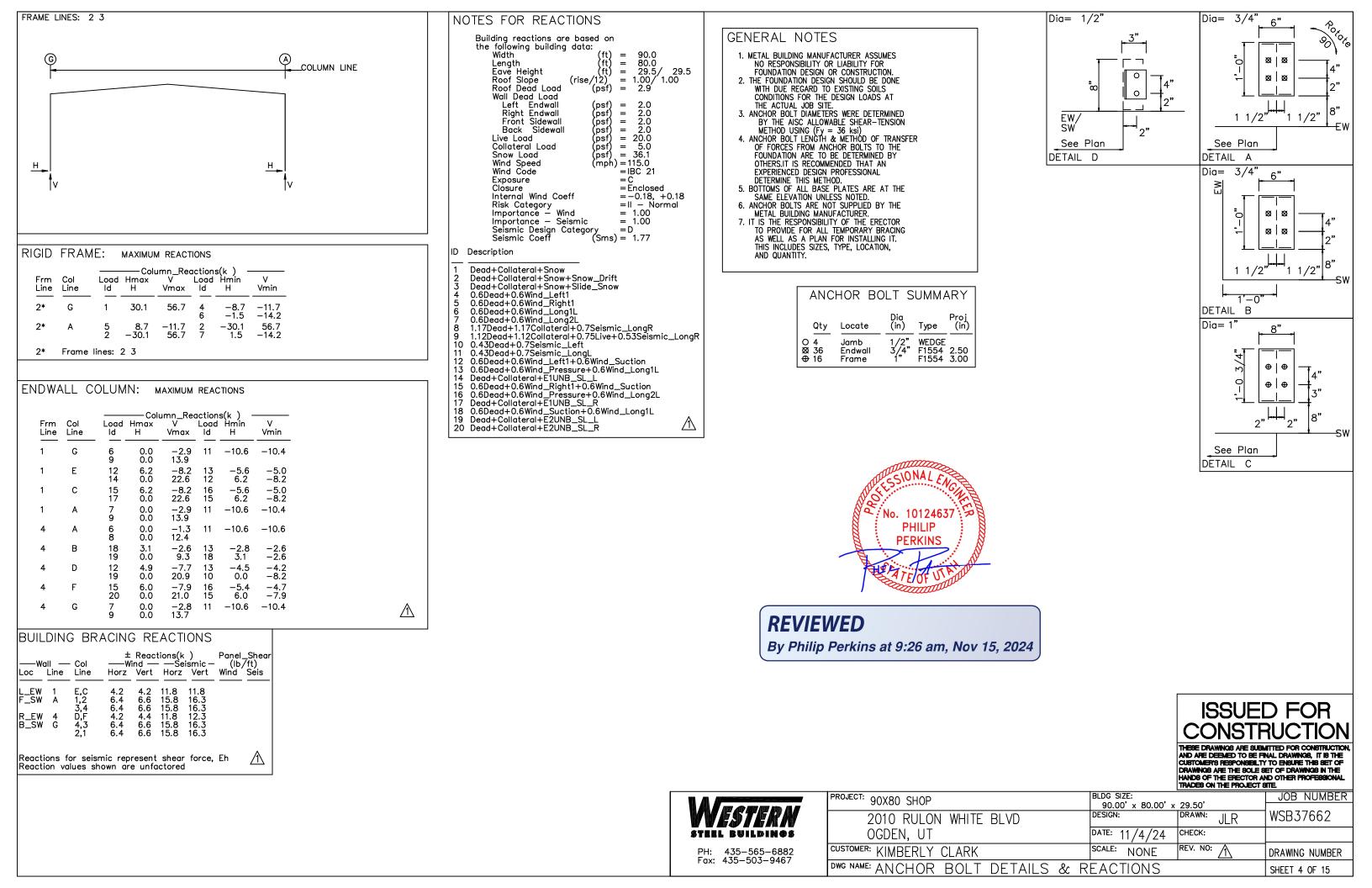


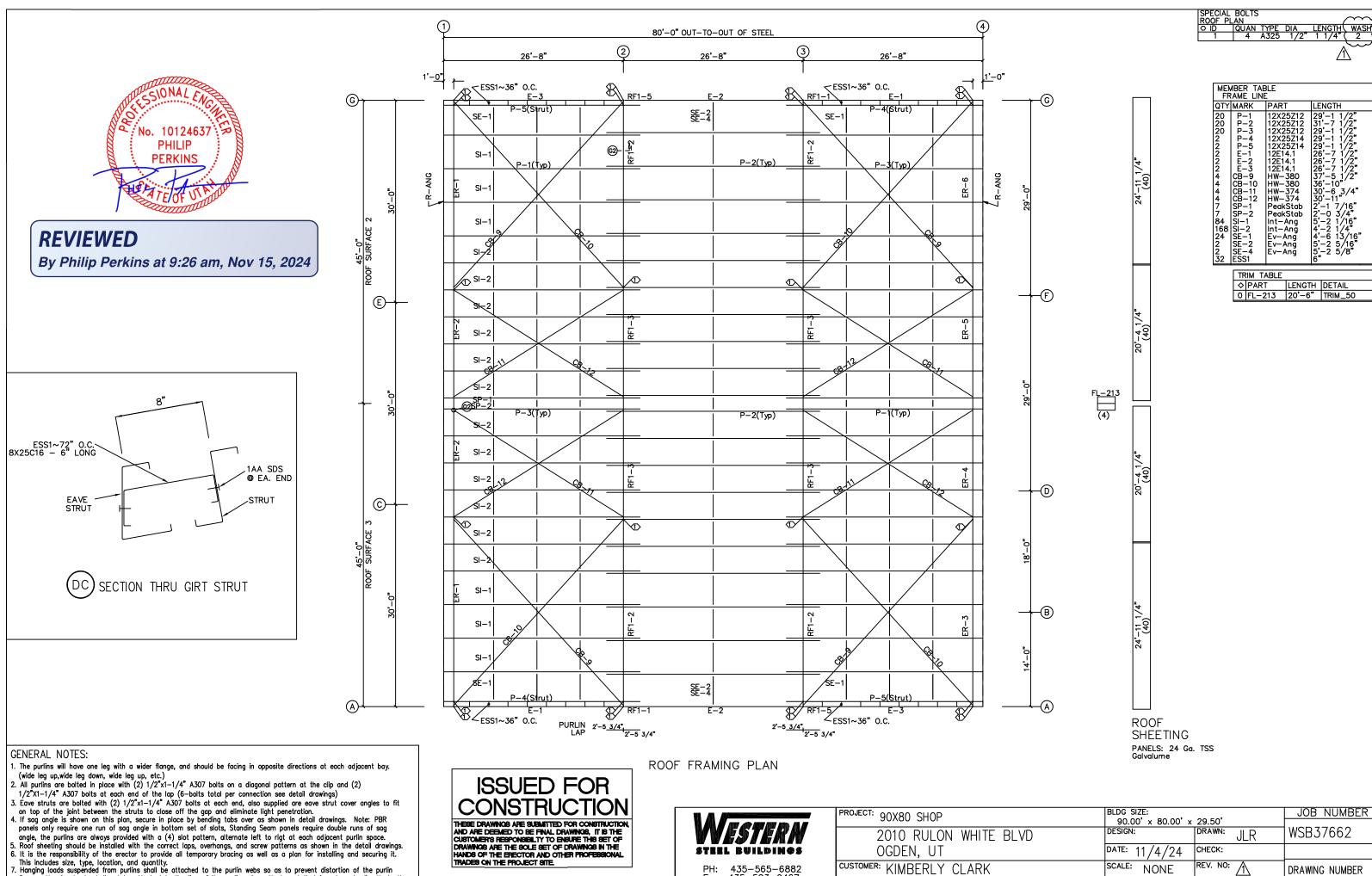


ISSUED FOR CONSTRUCTION

THESE DRAWINGS ARE SUBMITTED FOR CONSTRUCTION, AND ARE DESMED TO BE FINAL DRAWINGS, IT IS THE CUSTOMER'S RESPONSEL TO TO ENSURE THIS SET OF DRAWINGS ARE THE SOLE SET OF DRAWINGS IN THE HANDS OF THE ERECTOR AND OTHER PROFESSIONAL TRADES ON THE PROJECT STE.

	BLDG SIZE:		JOB NUMBER
VD	90.00' × 80.00' × 29.50' DESIGN: DRAWN: JLR		WSB37662
	DATE: 10/1/24	CHECK:	
	SCALE: NONE	REV. NO:	DRAWING NUMBER
AN & DET	AILS		SHEET 3 OF 15





This includes size, type, location, and quantity. 7. Hanging loads suspended from purlins shall be attached to the purlin webs so as to prevent distortion of the purlin flanges. Hanging loads shall not be attached to the lips of the purlins. Any attachment that is not made directly to the purlin web shall be submitted for review. In no case shall the load applied to a single purlin exceed 150 lb.

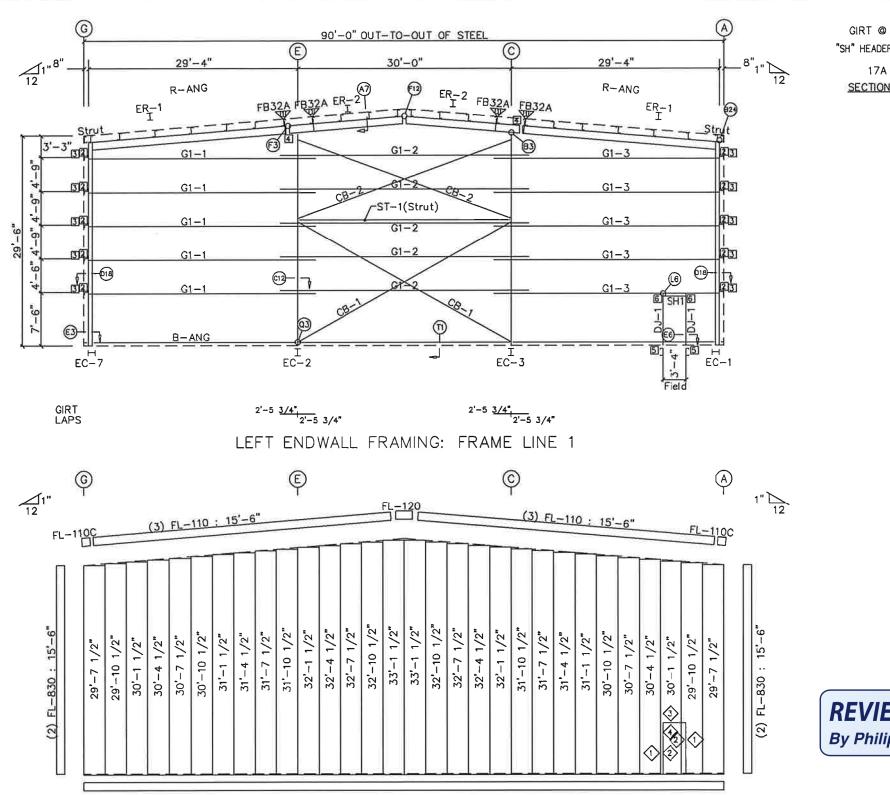
PH: 435–565–6882 Fax: 435–503–9467

DWG NAME: ROOF FRAMING

NONE

DRAWING NUMBER

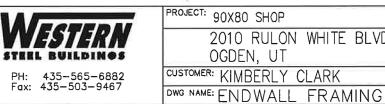
SHEET 5 OF 15



(4) FL-72 : 20'-6" LEFT ENDWALL SHEETING & TRIM: FRAME LINE 1 PANELS: 26 Ga. PR - POLAR WHITE

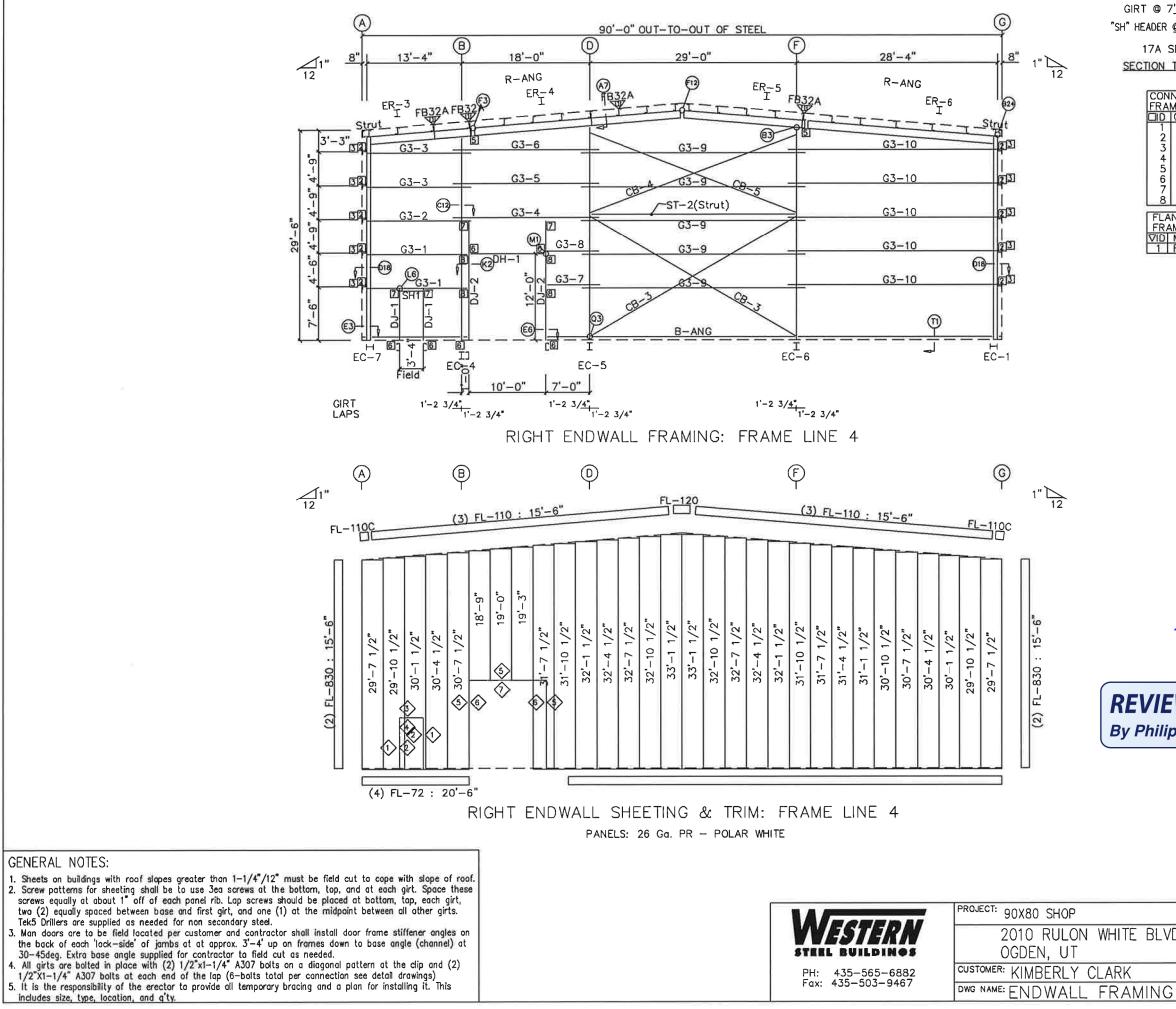


- 1. Sheets on buildings with roof slopes greater than 1-1/4"/12" must be field cut to cope with slope of roof. 2. Screw patterns for sheeting shall be to use 3ea screws at the bottom, top, and at each girt. Space these screws equally at about 1" off of each panel rib. Lap screws should be placed at bottom, top, each girt, two (2) equally spaced between base and first girt, and one (1) at the midpoint between all other girts. Tek5 Drillers are supplied as needed for non secondary steel.
- 3. Man doors are to be field located per customer and contractor shall install door frame stiffener angles on the back of each 'lock-side' of jambs at at approx. 3'-4' up on frames down to base angle (channel) at 30-45deg. Extra base angle supplied for contractor to field cut as needed. 4. All girts are bolted in place with (2) 1/2"x1-1/4" A307 bolts on a diagonal pattern at the clip and (2)
- $1/2^{2}X_{1}-1/4^{4}$ A307 bolts at each end of the lap (6-bolts total per connection see detail drawings) 5. It is the responsibility of the erector to provide all temporary bracing and a plan for installing it. This
- includes size, type, location, and g'ty.

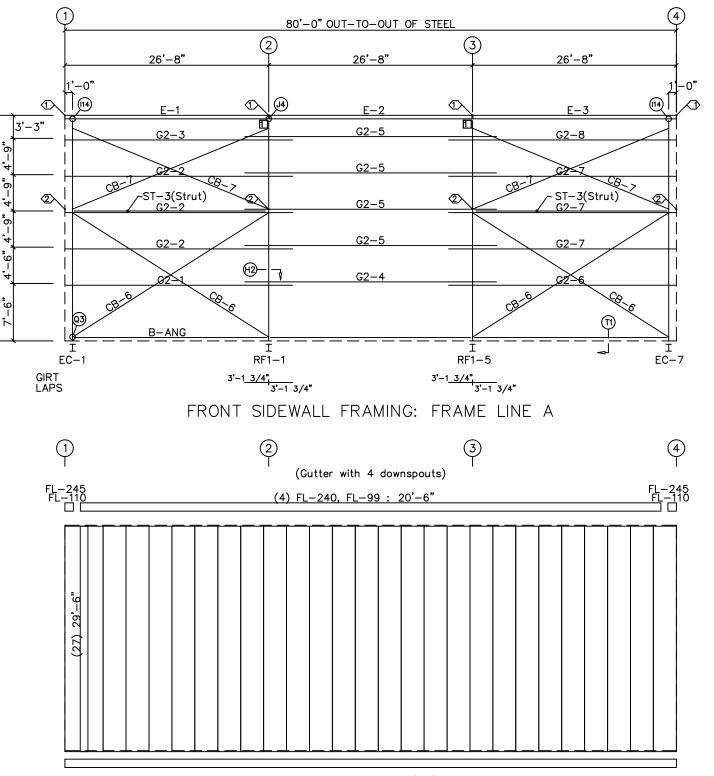


	BOLT TAB			
	LOCATION		QUAN TYP	E DIA LENGTH
GIRT @ 7 <u>'-6"</u>	Cor_Colur ER-1/ER-		4 A3: 4 A3:	25 3/4" 1 1/2"
'SH" HEADER @ 7'-2"	/ ER-2/ER-	-2	8 A3	25 3/4" 2 1/4" 25 1/2" 1 1/4"
17A SDS 12 0.C.	Int_Colum Strut	nyrkar	4 A3	
SECTION THRU "SH" HEA	DER TRIM	TABLE		
		<u>e line 1</u> Mark Ile	NGTH	IDETAIL
	F	1-110 115	-6"	TRIM_46
		1-37 17	5'-6" -6"	TRIM_12 TRIM_18
	2 6	L-22 17'	-6"	TRIM_18
		37-SH 3' L-24 4	-6" -6"	TRIM_18 TRIM_19
	5			
		FRAME LI		
	a	TY MARK	PART	LENGTH
	1	EC-1 EC-2	W12641 W12641	28'-7 5/8" 30'-0 3/16"
	1	ËČ-3 EC-7	W12641	30'-0 3/16" 28'-7 5/8"
	1	EC-7	W12641 W12661	27'-2 5/8"
	2	ER-2	W12661	27'-2 5/8" 16'-3 15/16" 6 7'-3"
	2 2 2 5 5 5 5 1 2 2 2 5 5 5 5 5 5 5 5 5	DJ-1 G1-1	08X25C1 08X25Z1	2 1 41 - 0 1 72 1
	5	G1-2 G1-3	08X25Z1	2 34' - 11 1/2'' 31' - 9 1/2''
	1	ST-1	W08841	29'-11 3/4"
	2	CB-1 CB-2	0.88_R0	0 34 -0 5/16
	1	SH-1	08X5X14	
			CONNECT	ION PLATES
			FRAME L	INE 1
				N MARK/PART
			2 10	r1
			4 2	h2
			5 2	c1
				BRACE TABLE
-01	NAL ENC.		FRAMEL	INE 1
cl0	NALES		VID MAR	
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No. 1	NEB.			
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				ITTED FOR CONSTRUCTION.
		AND ARE DE	EMED TO BE FI	NAL DRAWINGS, IT IS THE TO ENSURE THIS SET OF
		DRAWINGS A	RE THE SOLE S	ET OF DRAWINGS IN THE
			HE PROJECT S	
	BLDG SIZE:	00 EC		JOB NUMBER
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HE BLVU			JLR	113037002
	DATE: 10/1/24	CHECK:		
3K	SCALE: NONE	REV. NO:		DRAWING NUMBER
		-		

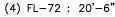
SHEET 6 OF 15



7 <u>'-6"</u>	BOLT TABLE FRAME LINE 4 LOCATION Cor Column/Raf	QUAN TYPE 4 A325	DIA LENGTH
SDS 12 0.C.	Cor_Column/Raf ER-3/ER-4 ER-4/ER-5 ER-5/ER-6	4 A325 8 A325 4 A325	$3/4" \ 1 \ 1/2" \ 3/4" \ 2" \ 3/4" \ 1 \ 1/2"$
THRU "SH" HEADER	Int_Calumn/Raf Strut	4 A325 4 A325	1/2" 1 $1/4"1/2" 1 1/4"$
NNECTION PLATES AME LINE 4 QUAN MARK/PART		NGTH	
4 k12 2 10 r1 3 10 ZGF	FL-830 11 1 FL-37 7	5'-6" 5'-6" '-6" '-6"	TRIM_46 TRIM_12 TRIM_18
4 1 h3 5 2 h2 5 6 c1 7 4 b2	3 37-SH 3 4 FL-24 4	-6" '-6" 2'-6"	TRIM_18 TRIM_18 TRIM_19
7 4 b2 3 4 b1 ANGE BRACE TABLE	6 FL-22 1	2'-6" 2'-6" 2'-6"	TRIM_18 TRIM_18 TRIM_19
AME_LINE_4 MARK LENGTH FB32A 2'-8"	MEMBER T	NE 4	
	QTY MARK 1 EC-1	PART W12641	LENGTH
	1 EC-4 1 EC-5 1 EC-6	W12641 W12641 W12641	28'-8 3/16" 30'-2 3/16" 29'-11 3/16"
	1 EC-7 1 ER-3 1 ER-4	W12641 W12651 W12651	28 - 7 5/8
	1 ER-5 1 ER-6	W12651 W12651	29'-4 9/16" 17'-11 15/16" 25'-6 5/8"
	2 DJ-1 2 DJ-2 1 DH-1	08X25C16 08X25C14 08X25C16	7'-3'' 16'-6" 9'-11 1/2"
	2 G3-1 1 G3-2	08X25Z16 08X25Z16	14'-6 1/2"
	2 G3-3 1 G3-4 1 G3-5	08X25Z16 08X25Z16 08X25Z16	14'-6 1/2" 20'-5 1/2" 20'-5 1/2"
	1 G3-6 1 G3-7	08X25Z14 08X25Z14	20'-5 1/2"
	1 G3-8 5 G3-9 5 G3-10	08X25Z16 08X25Z12 08X25Z12	7'-10 3/4" 31'-5 1/2" 29'-6 1/2"
	1 ST-2 2 CB-3	W08841 0.88_R0D	$28' - 11 \ 3/4''$ $33' - 1 \ 3/4''$
SIONAL F	1 CB-4 1 CB-5 1 SH-1	0.88_ROD 0.88_ROD 08X5X14	32'-0 3/4" 32'-1 3/4" 3'-3 1/2"
No. 1012463	CA		5 5 1/2
N : 1012400	ST ER		
PHILIP PERKINS			
The the			
ATELOFUT	TUTUL		
,			
EWED			
ip Perkins at 9:26 a	am, Nov 15, 202	24	
	THESE DRAV	NINCIA ARE SUBMITTE	JCTION ED FOR CONSTRUCTION,
	CUSTOMER'S DRAWINGS A	RESPONSIBILITY TO RE THE SOLE SET (DRAWINGS, IT IS THE ENSURE THIS SET OF DF DRAWINGS IN THE
BLDG SI	TRADES ON	THE PROJECT SITE.	JOB NUMBER
90.00	' x 80.00' x 29.50' DRAWN:		SB37662
VD DATE: 10		JLR W	000,002
SCALE:	NONE REV. NO:	DF	RAWING NUMBER
G		Sł	HEET 7 OF 15







FRONT SIDEWALL SHEETING & TRIM: FRAME LINE A

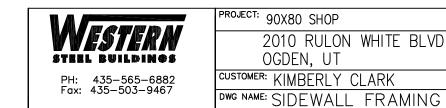
PANELS: 26 Ga. PR - POLAR WHITE

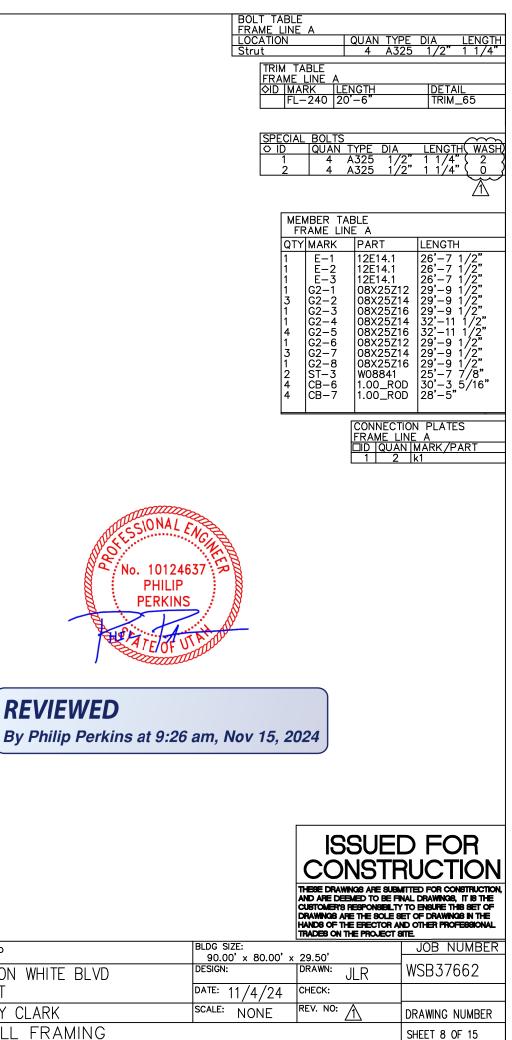
GENERAL NOTES:

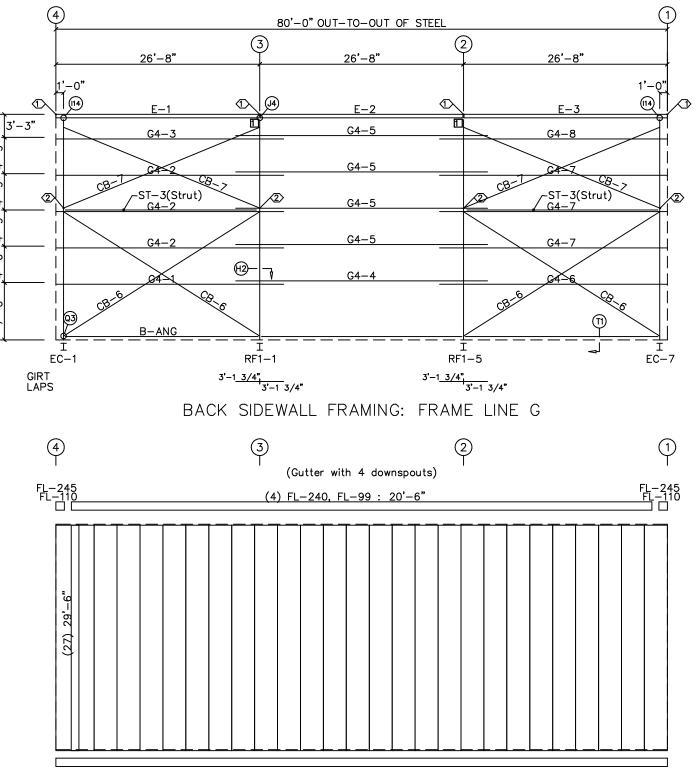
. Screw patterns for sheeting shall be to use 3ea screws at the bottom, top, and at each girt. Space these screws equally at about 1" off of each panel rib. Lap screws should be placed at bottom, top, each girt, two (2) equally spaced between base and first girt, and one (1) at the midpoint between all other girts. Tek5 Drillers are supplied as needed for non secondary steel. 2. Cut sheets as needed to cope to framed openings.

29'-6"

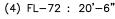
- 5. Man doors are to be field located per customer and contractor shall install door frame stiffener angles on the back of each 'lock-side' of jambs at approx. 3'-4' up on frames, down to the base angle (channel) at 30-45 deg. Extra base angle supplied for contractor to field cut as needed. All girts are bolted in place with (2) 1/2"x1-1/4" A307 bolts on a diagonal pattern at the clip and (2) 1/2"x1-1/4" A307 bolts at the cash and of the total and the total and the clip and (2)
- 1/2"X1-1/4" A307 bolts at each end of the lap (6-bolts total per connection see detail drawings) It is the erectors responsibility to provide all temporary bracing and a plan for installing it. This includes sizes, types, location and quantity.











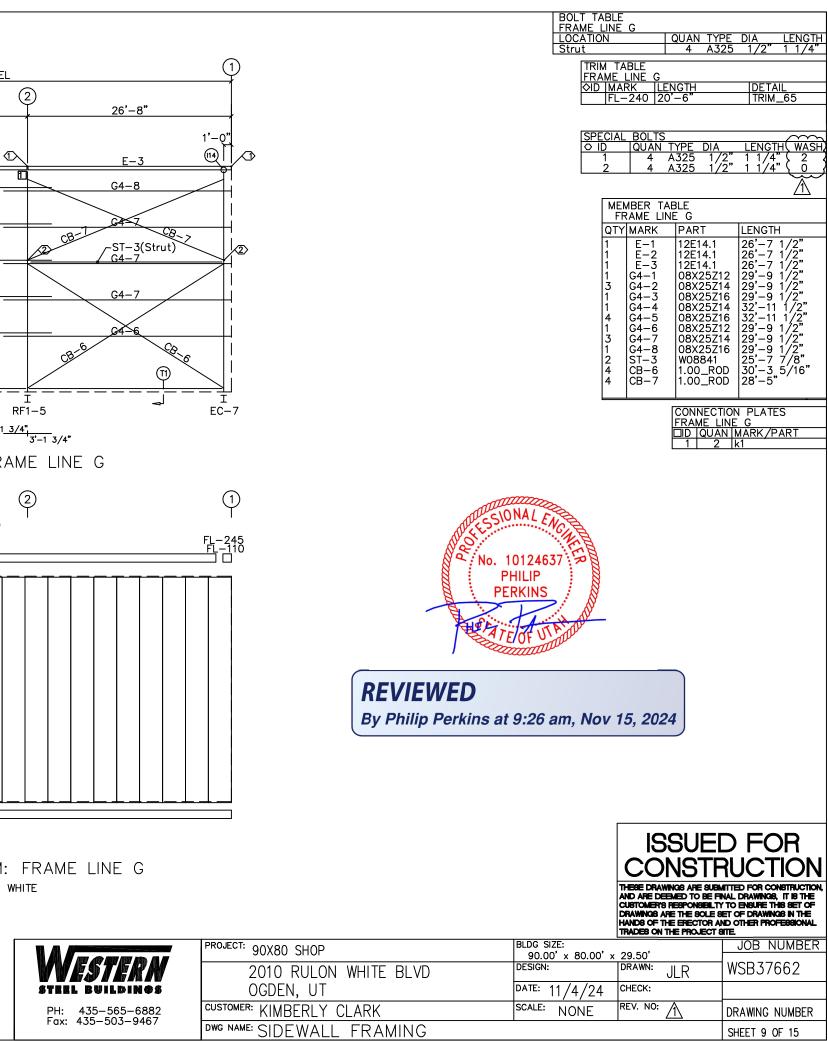
BACK SIDEWALL SHEETING & TRIM: FRAME LINE G PANELS: 26 Ga. PR - POLAR WHITE

GENERAL NOTES:

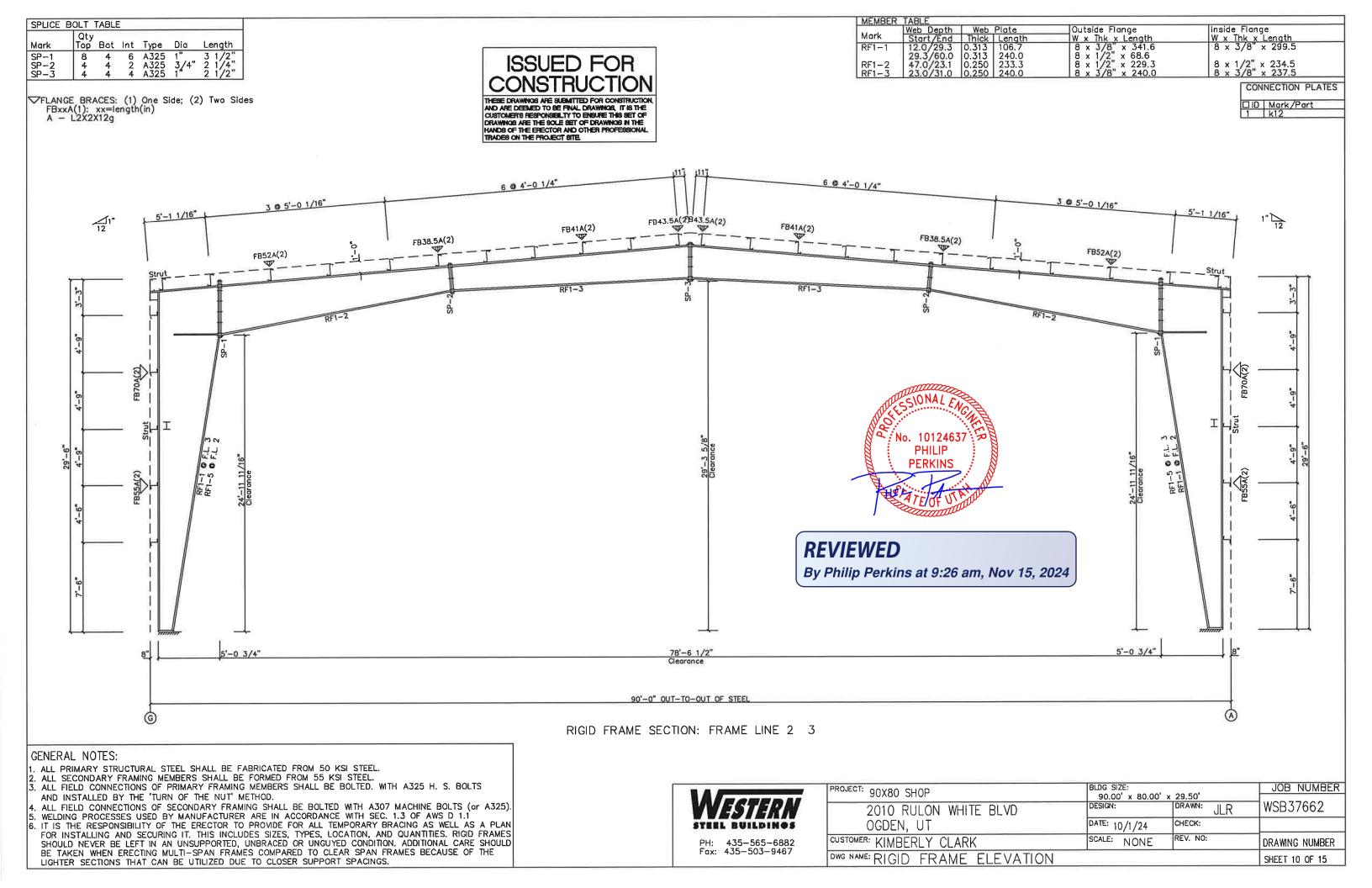
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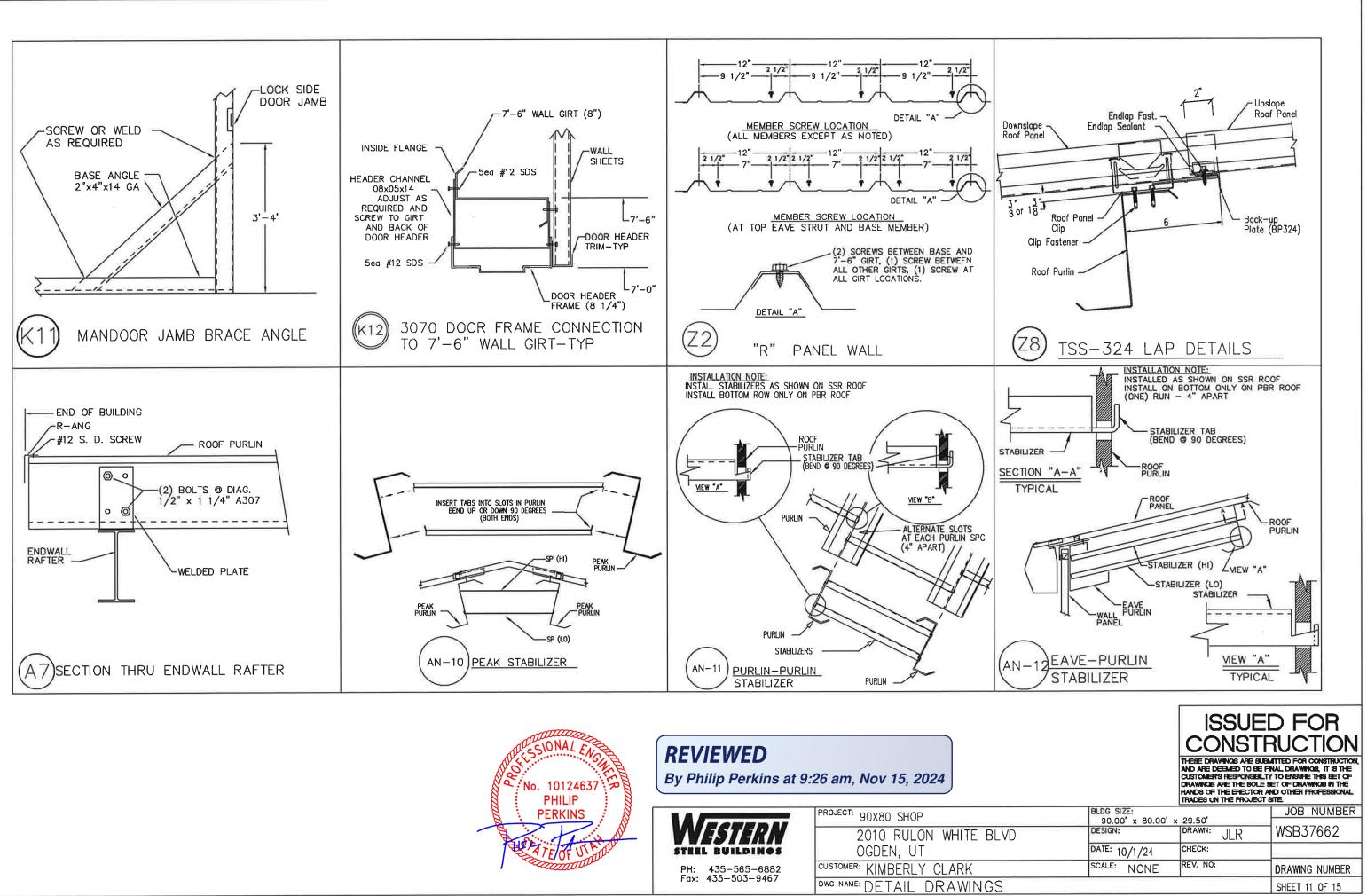
29'-6"

- . And don's are to be field located per customer and contractor shall install door frame stiffener angles on the back of each 'lock-side' of jambs at approx. 3'-4' up on frames, down to the base angle (channel) at 30-45 deg. Extra base angle supplied for contractor to field cut as needed. All girts are bolted in place with (2) 1/2"x1-1/4" A307 bolts on a diagonal pattern at the clip and (2)
- 1/2"X1-1/4" A307 bolts at each end of the lap (6-bolts total per connection see detail drawings) 5. It is the erectors responsibility to provide all temporary bracing and a plan for installing it. This includes sizes, types, location and quantity.

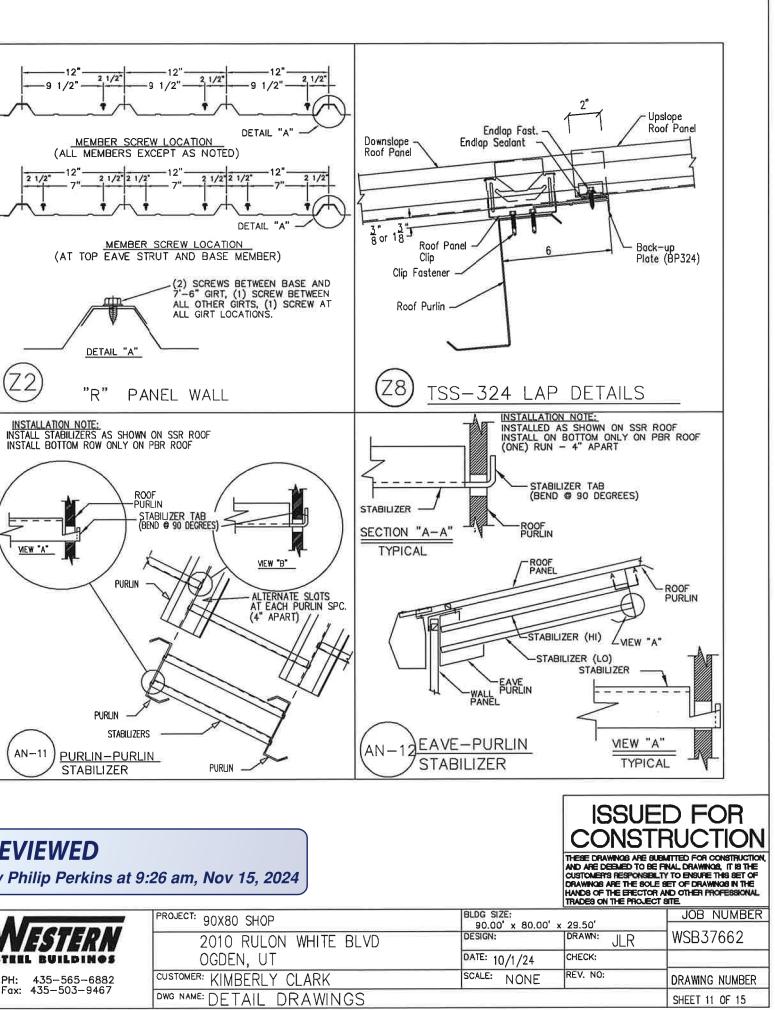


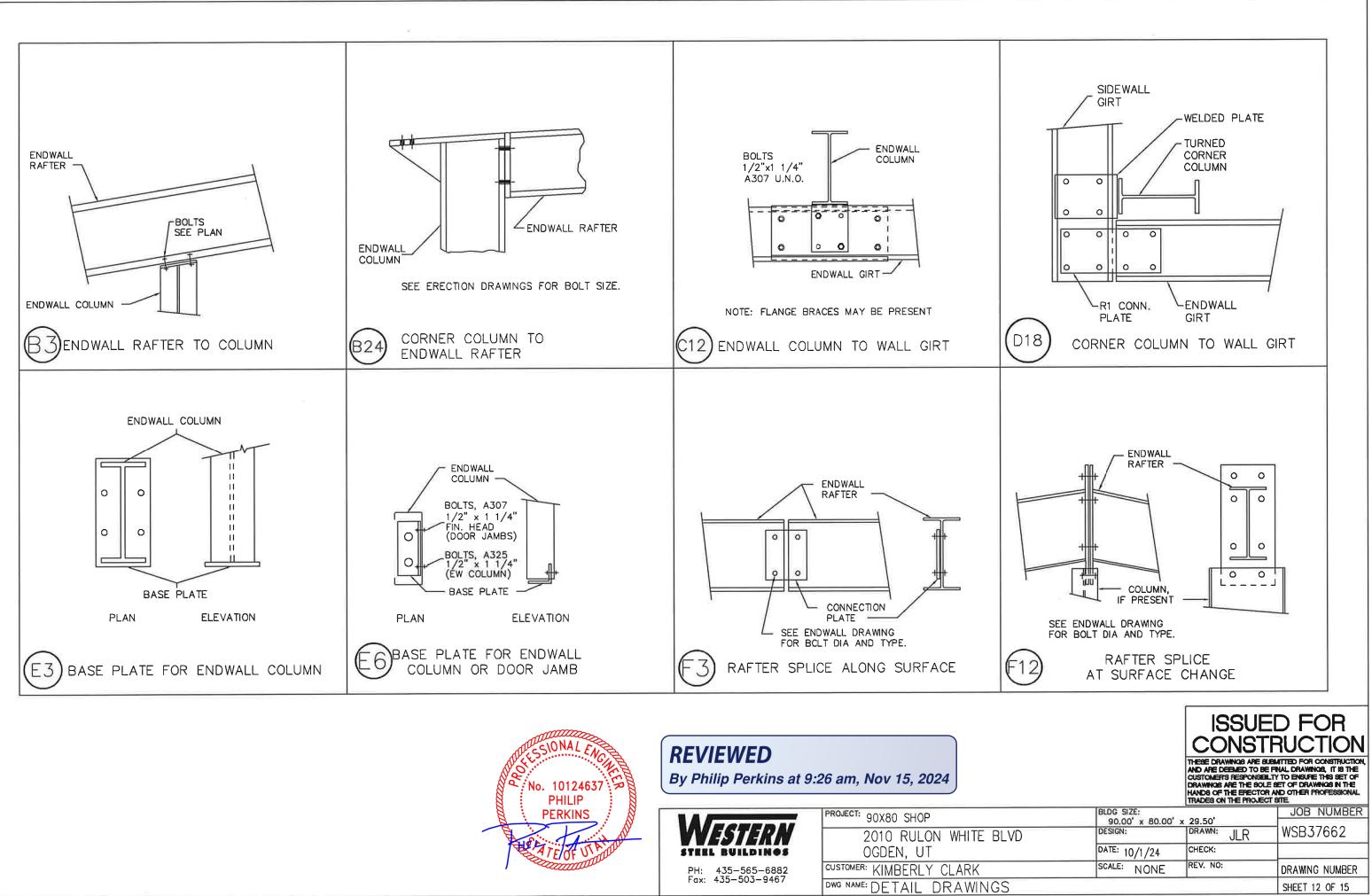
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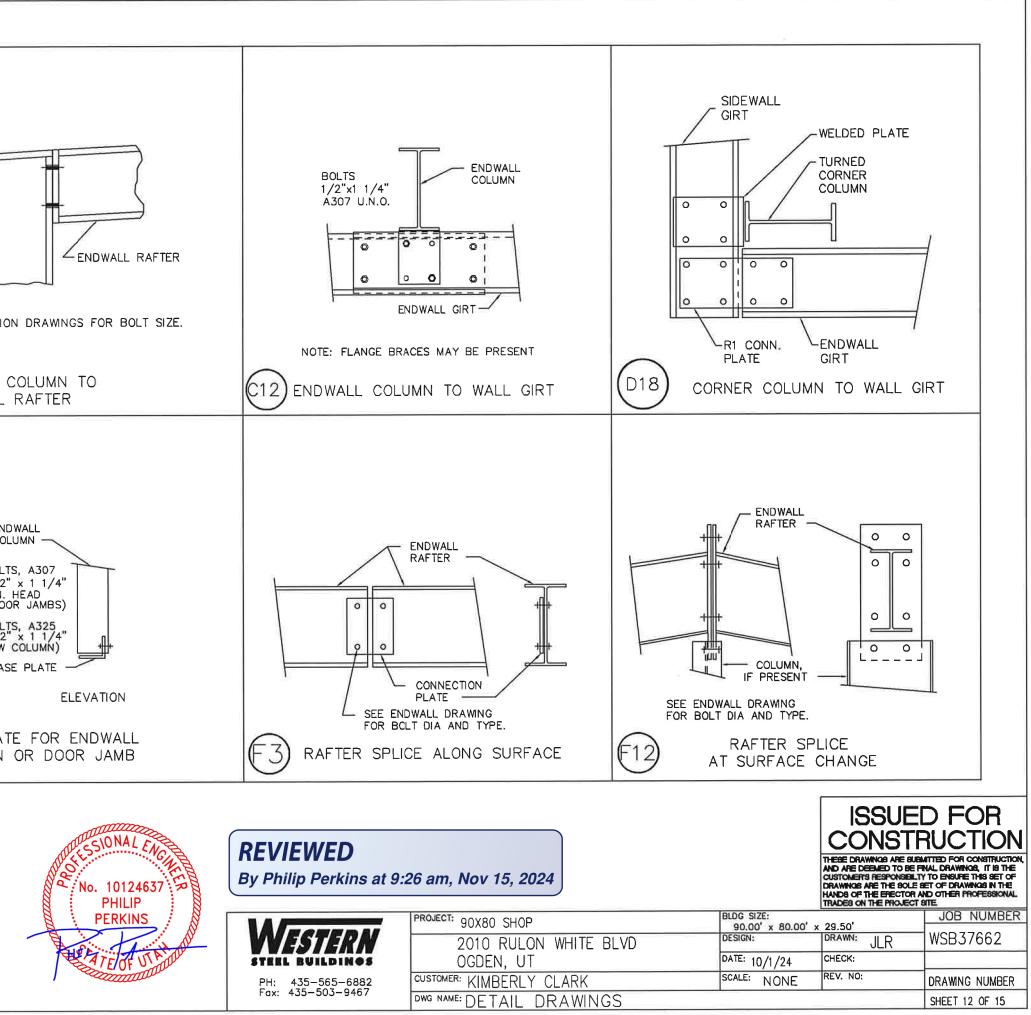


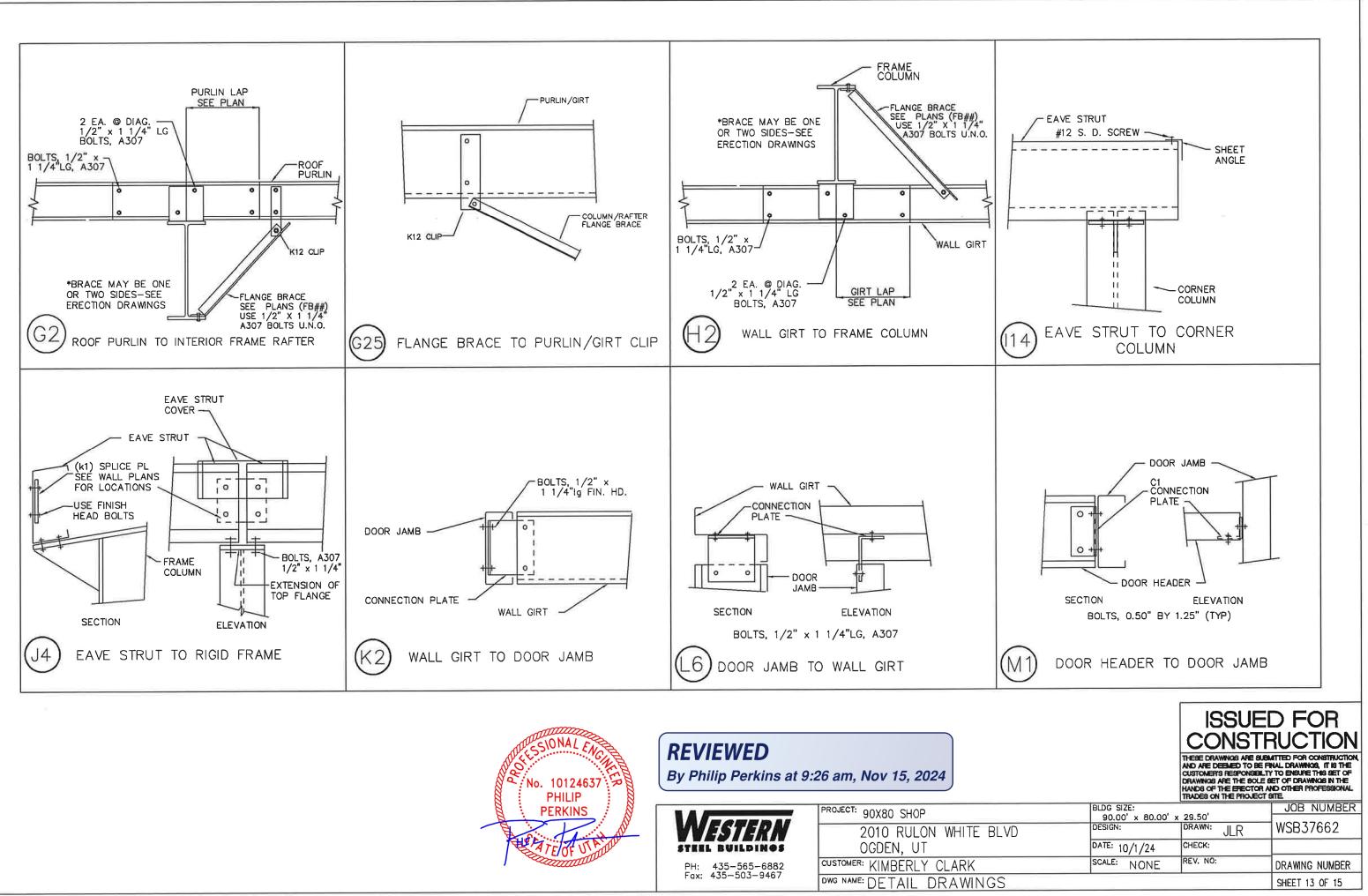


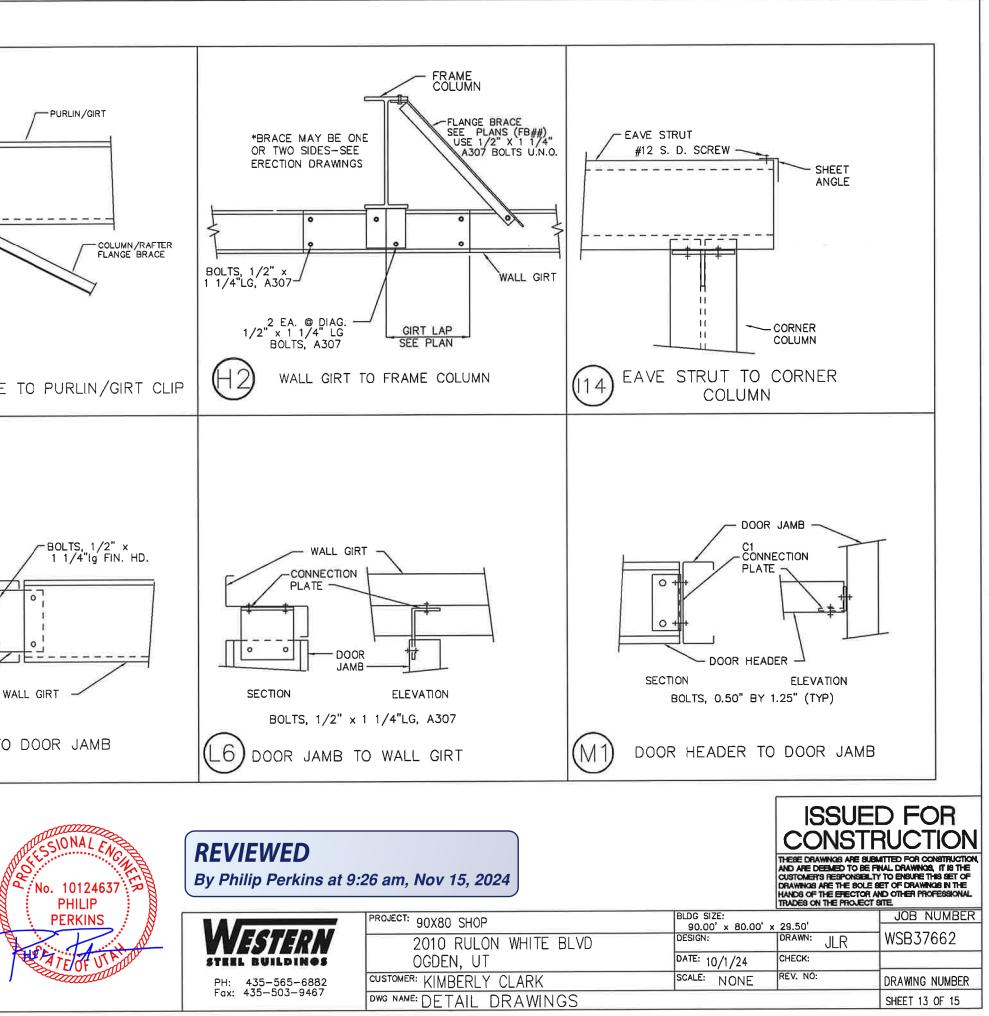


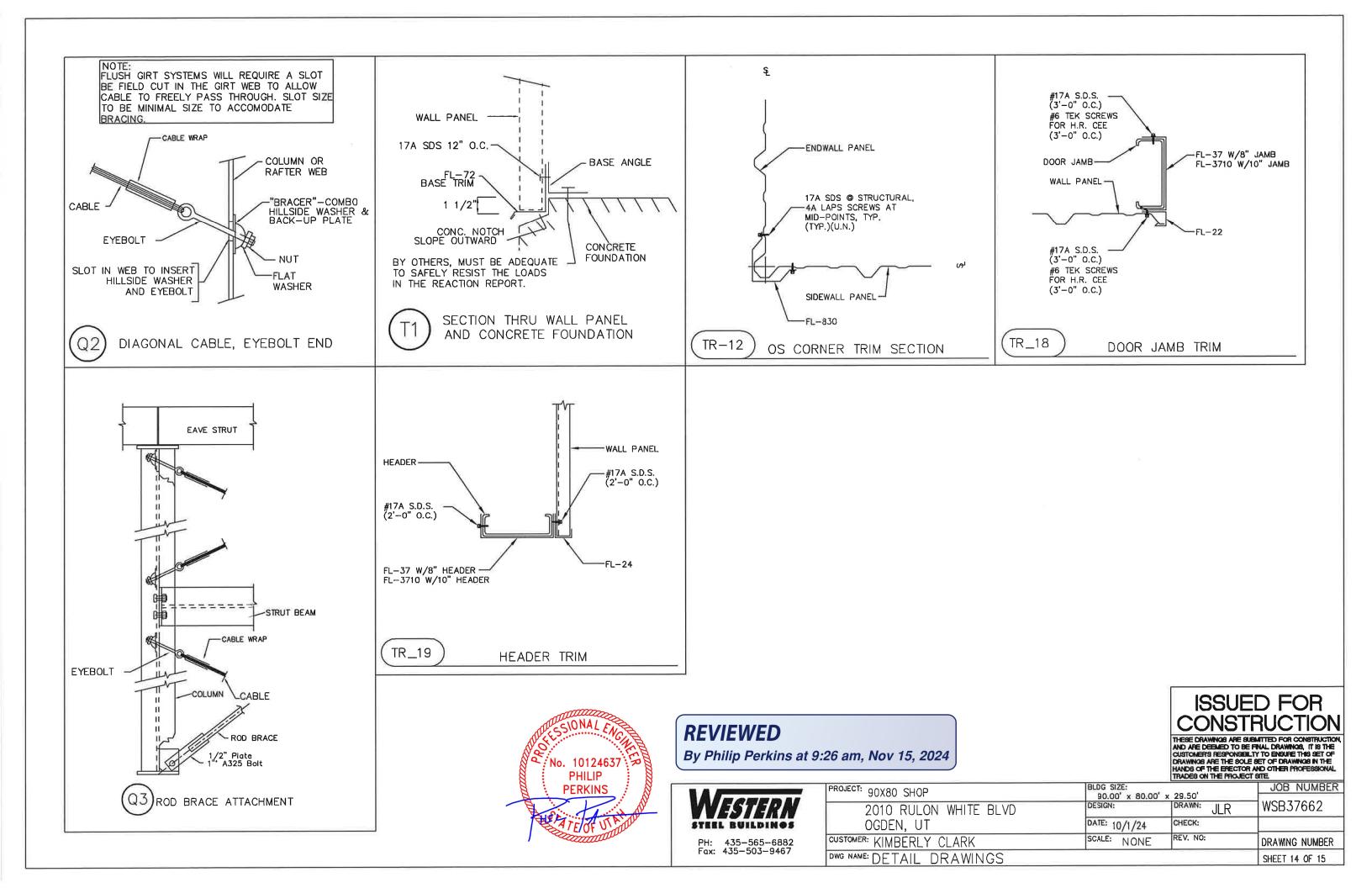


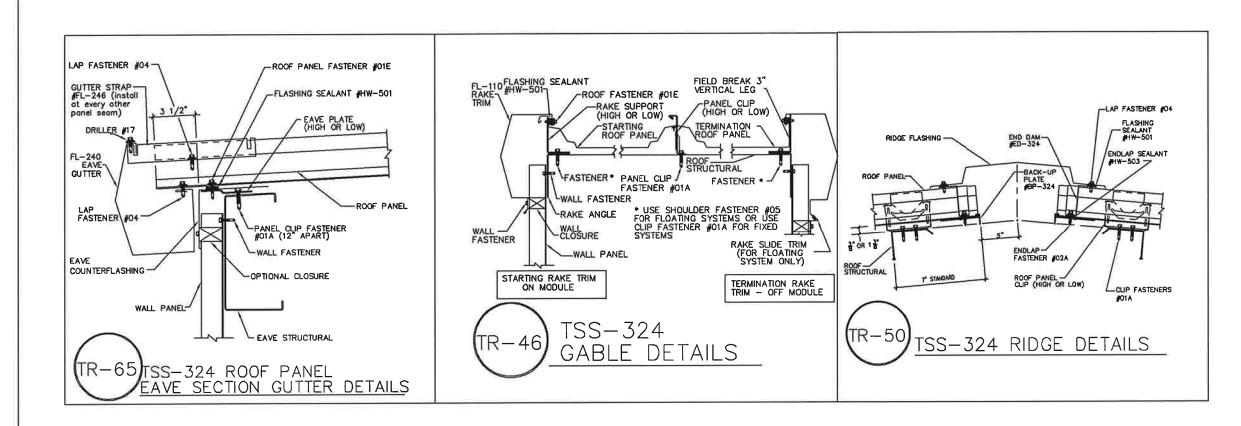










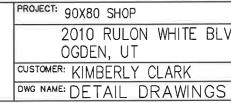






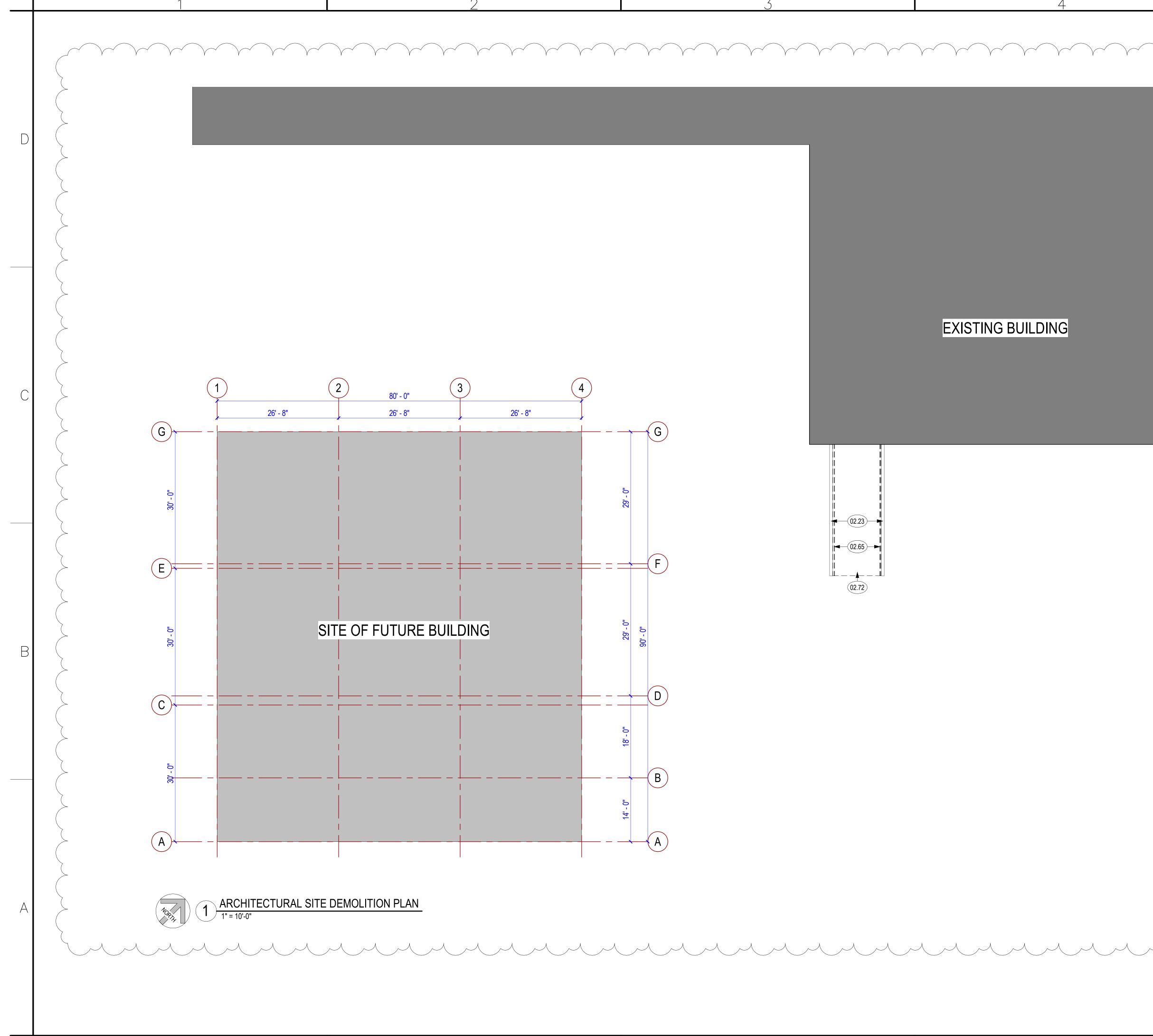
By Philip Perkins at 9:26 am, Nov 15, 2024

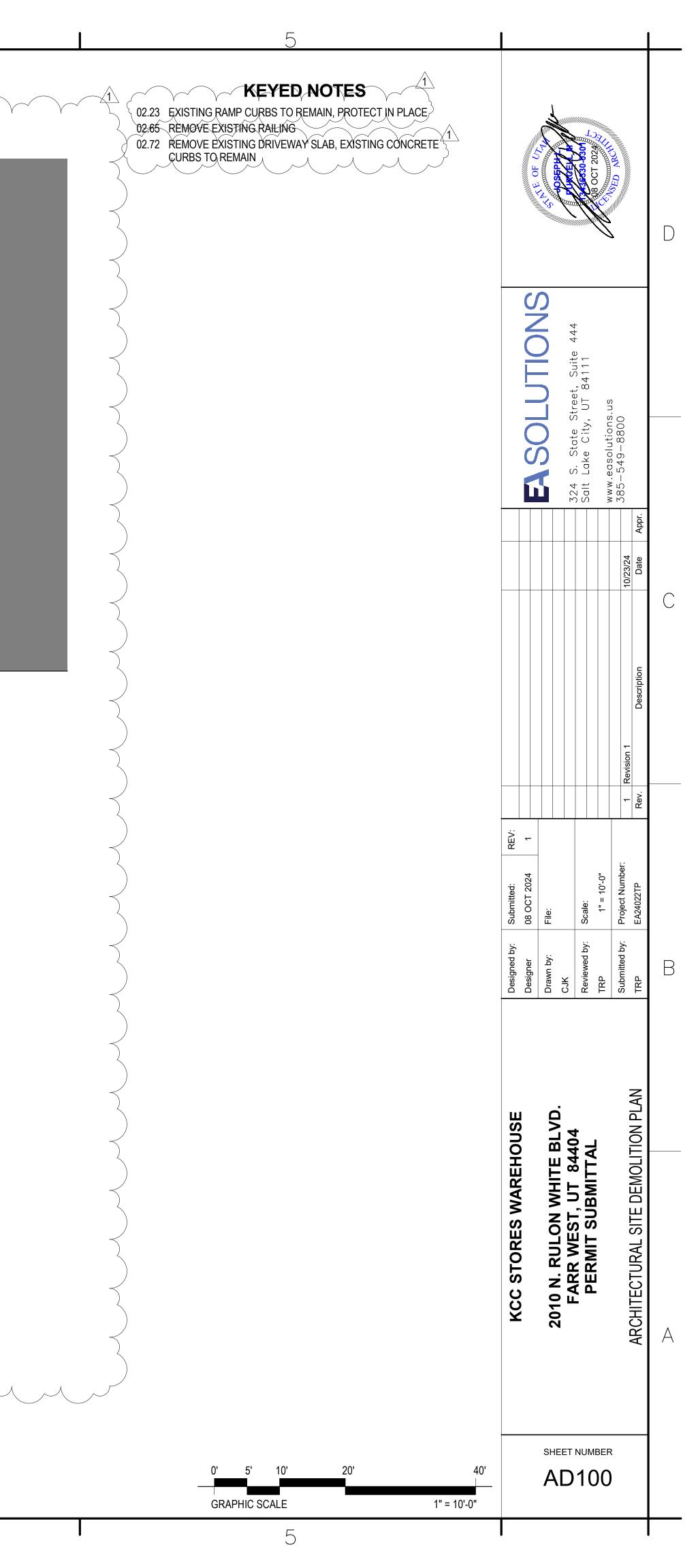




	DRAWINGS ARE THE SC	
BLDG SIZE:	x 29.50'	JOB NUMBER
DESIGN:	DRAWN: JLR	WSB37662
DATE: 10/1/24	CHECK:	
SCALE: NONE	REV. NO:	DRAWING NUMBER
		SHEET 15 OF 15
	90.00' x 80.00' DESIGN: DATE: 10/1/24	BLDG SIZE: 90.00' × 80.00' × 29.50' DESIGN: DATE: 10/1/24 DATE: 10/1/24

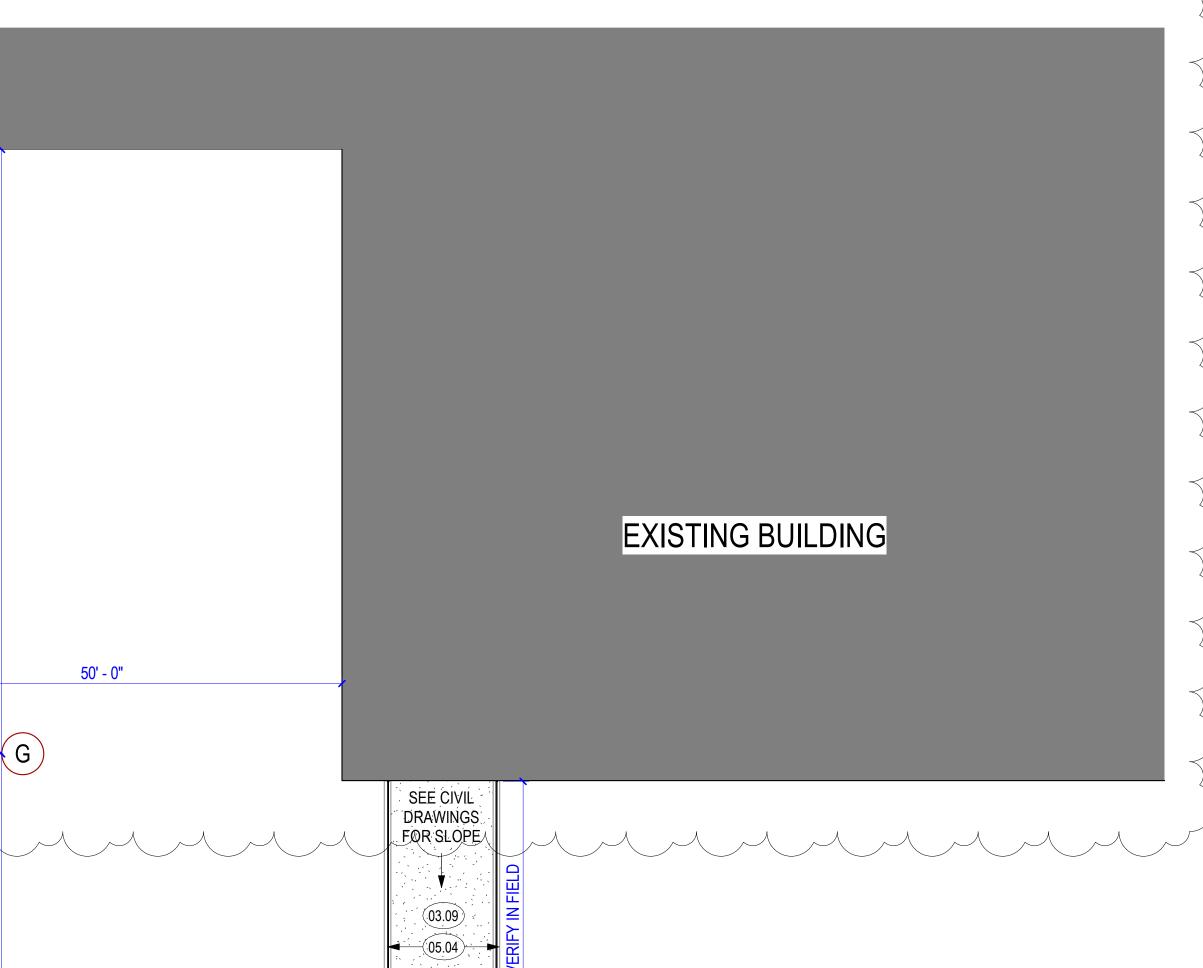
ISSUED FOR CONSTRUCTION

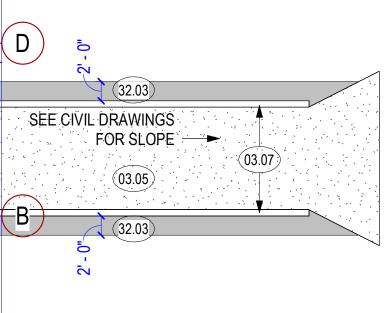




		1	26' - 8"	2	3	26' - 8"	4	63' - 0"
	30 0.							29' - 0''
	30' - 0"							29' - 0" 90' - 0"
_	30' - 0'' - '4'						A-501	







A

(02.02

10' - 8" 8"["] 8"

2A A-501

PERMIT SUBMITTAL

KEYED NOTES

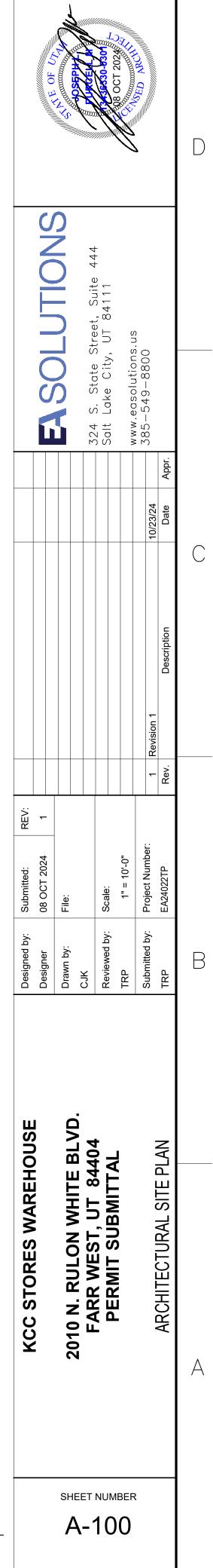
- 02.02 EXISTING WALL TO REMAIN
- 03.04 CONCRETE STOOP, SEE CIVIL AND STRUCTURAL DRAWINGS
- 03.05 CONCRETE DRIVEWAY/RAMP, SEE CIVIL AND STRUCTURAL DRAWINGS
- 03.07 CONGRETE CURBING, 8" THICK AND 8" ABOVE ENTIRE RAMP, FOLLOWING RAMP SLOPE
- (03.09 NEW CONCRETE DRIVEWAY ON EXISTING CONCRETE CURBING, SEE CIVIL PLANS, 05.04 OSHA APPROVED 42 INCH HIGH GUARDS SHALL BE LOCATED ALONG OPEN-SIDED WALKING SURFACES, INCLUDING MEZZANINES, EQUIPMENT PLATFORMS, AISLES, STAIRS, RAMPS AND LANDINGS THAT ARE LOCATED MORE THAN 30 INCHES MEASURES VERTICALLY TO THE FLOOR OR GRADE BELOW AT A POINT WITHIN 36 INCHES HORIZONTALLY TO THE EDGE OF THE OPEN SIDE. THE HIGHT OF THE GUARD SHALL BE MEASURED VERTICALLY FROM THE RAMP SURFACE AT THE GUARD ON RAMPS

GRAPHIC SCALE

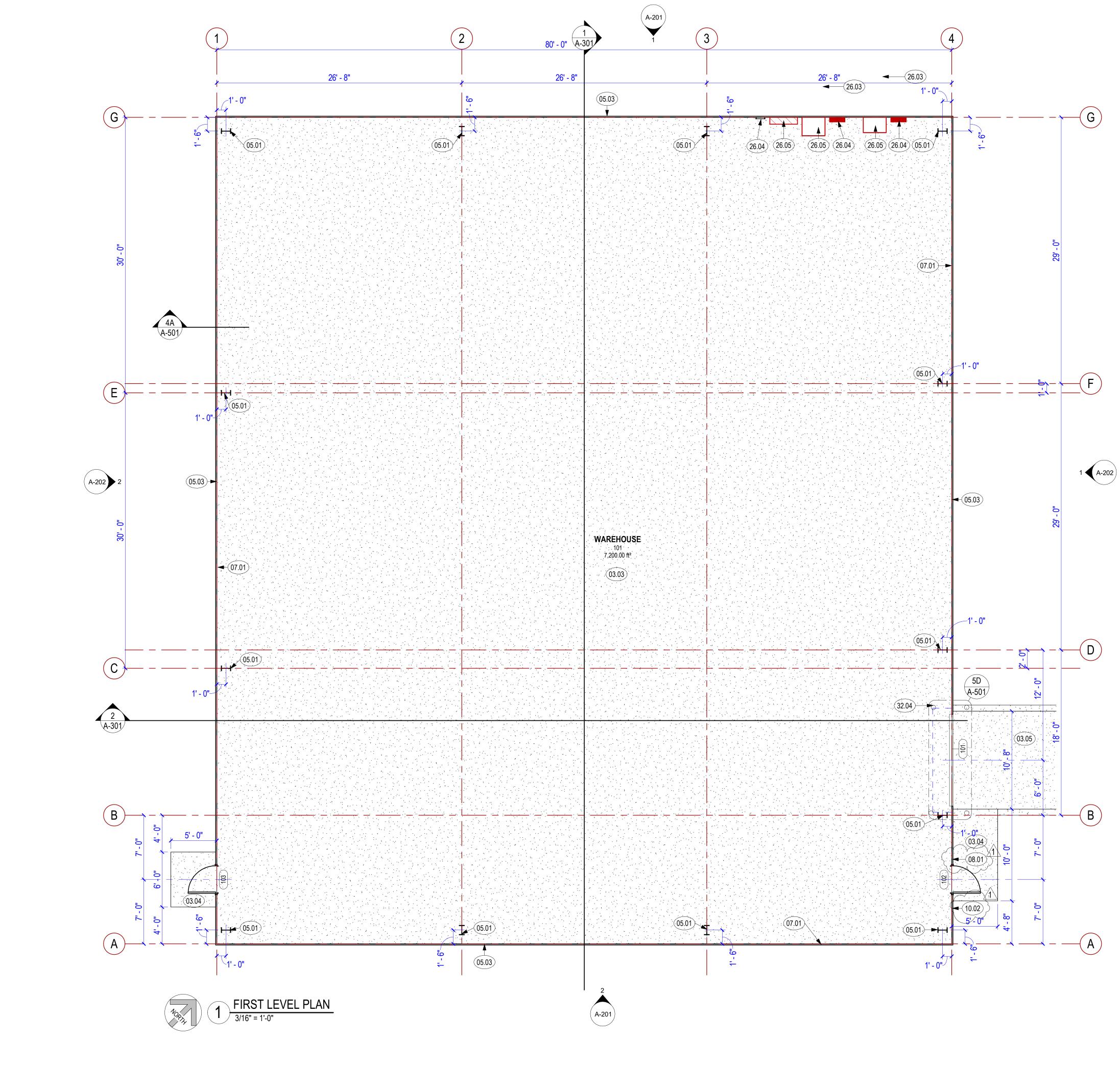
5

1" = 10'-0"

32.03 LANDSCAPE FABRIC AND ROCK MULCH, SEE CIVIL DRAWINGS

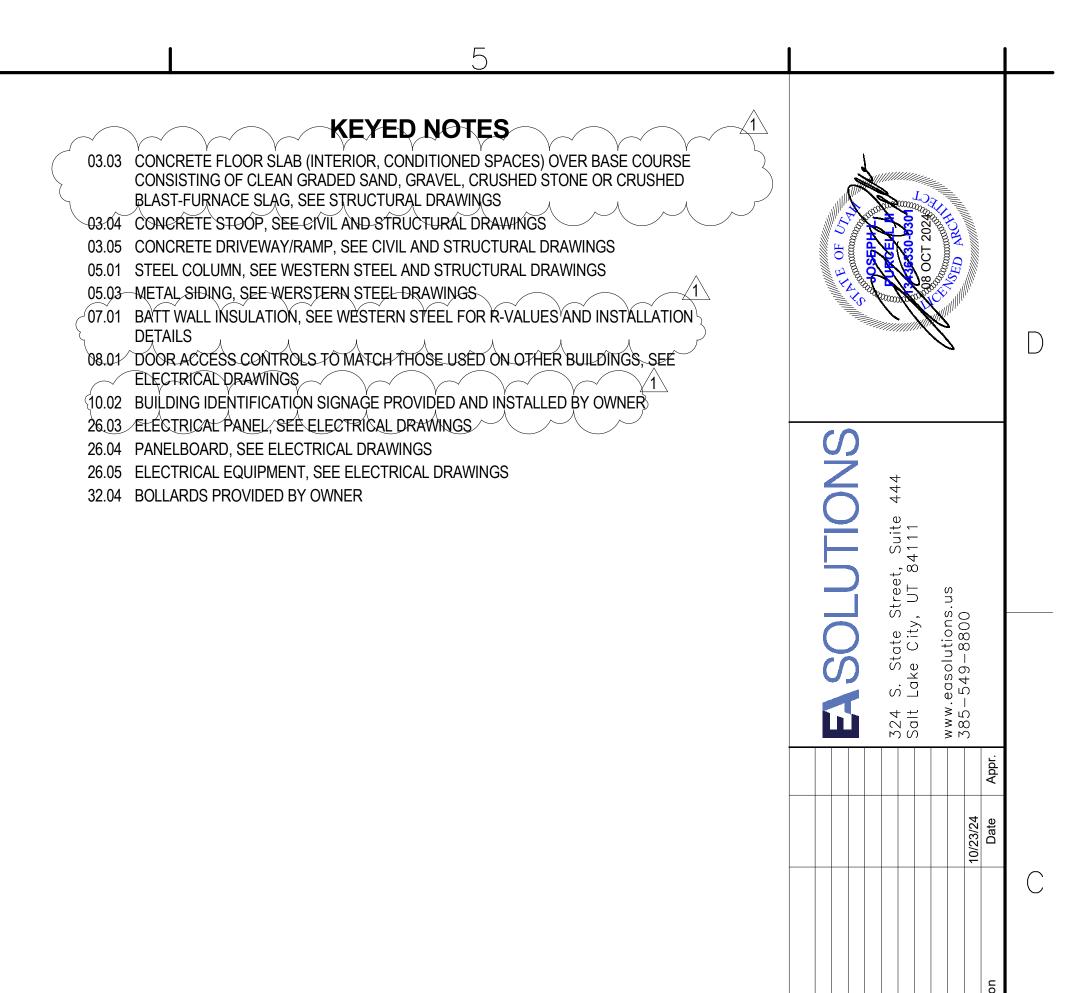






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4



	SHEET NUMBER
16'	A-101
3/16" = 1'-0"	

2010 N. RULON WHITE BLVD FARR WEST, UT 84404 PERMIT SUBMITTAL

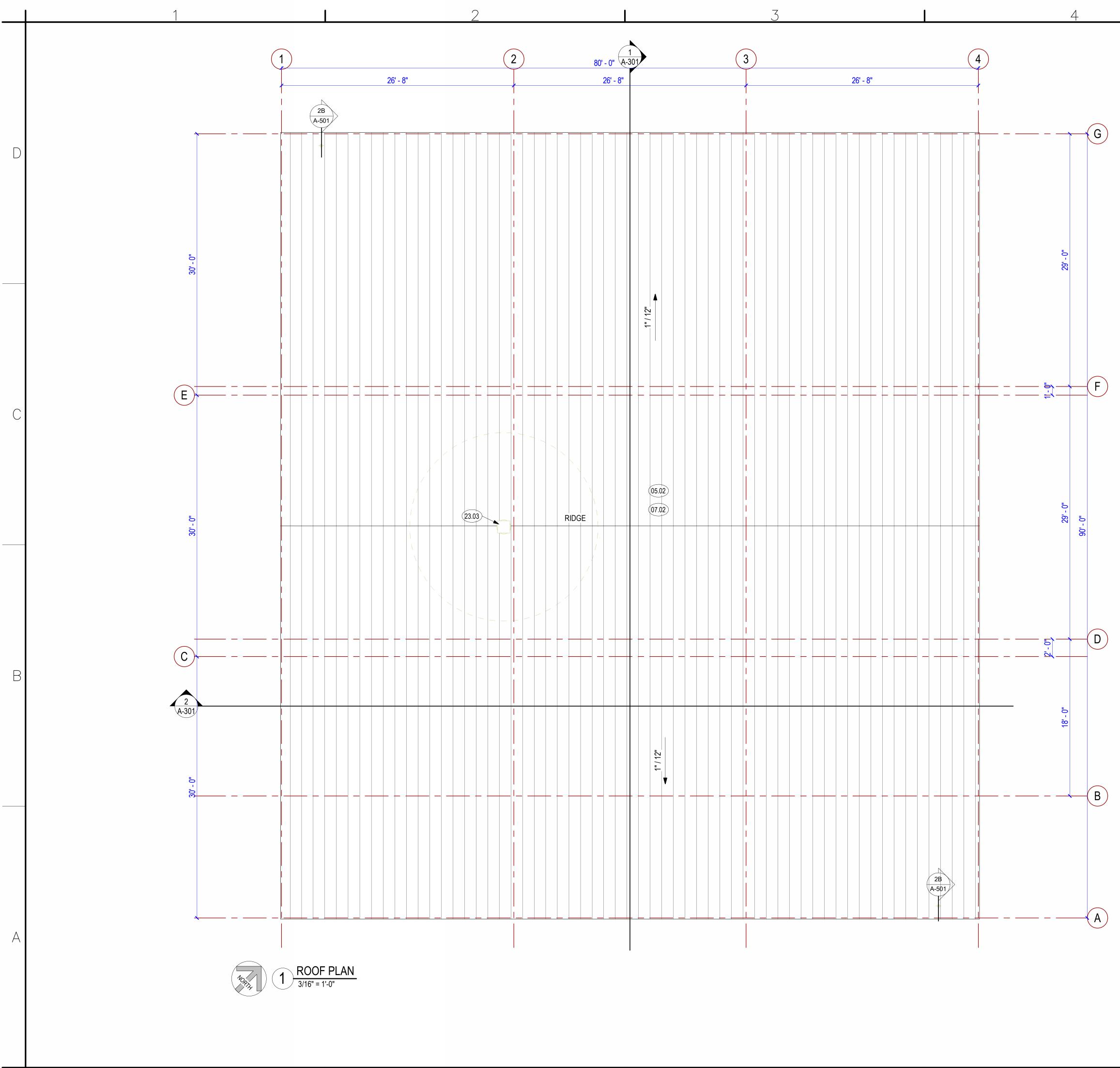
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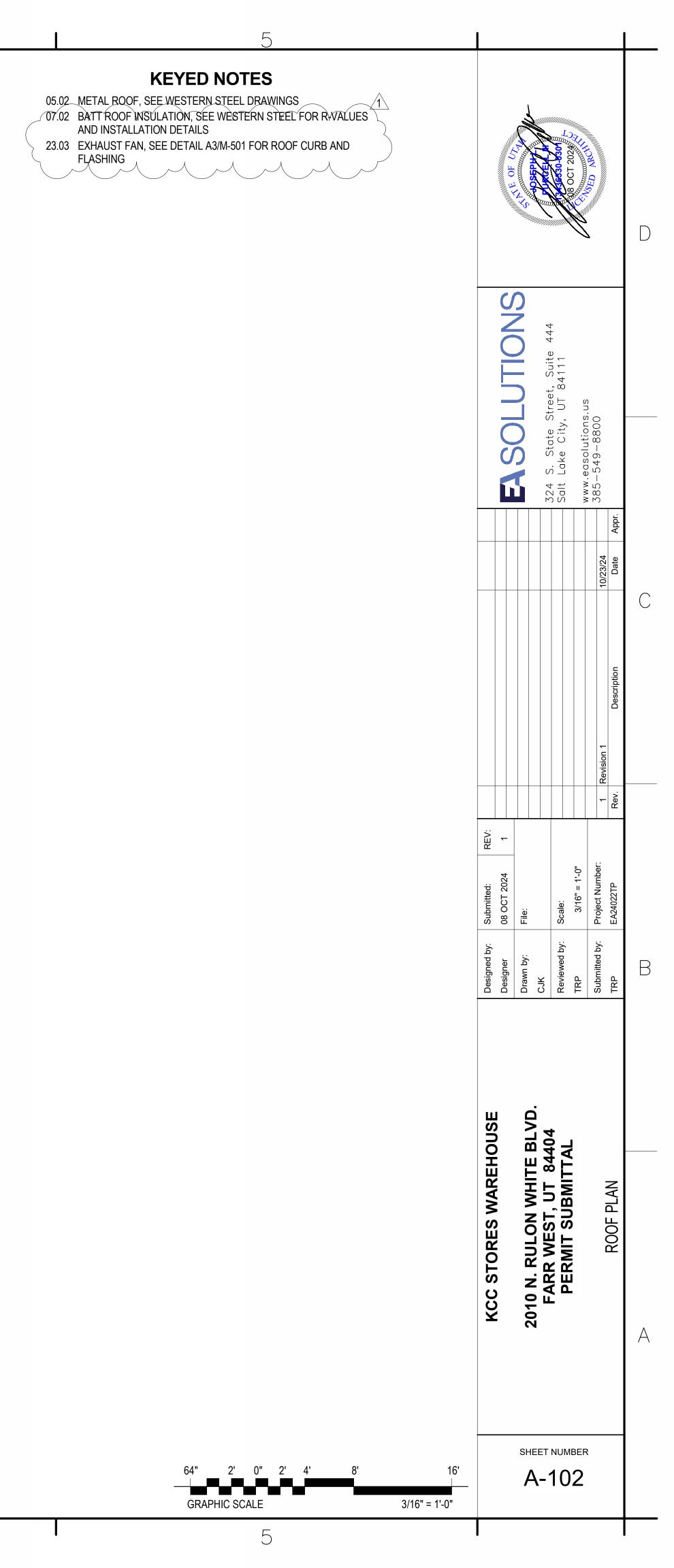
KCC STORES WAREHOUSE

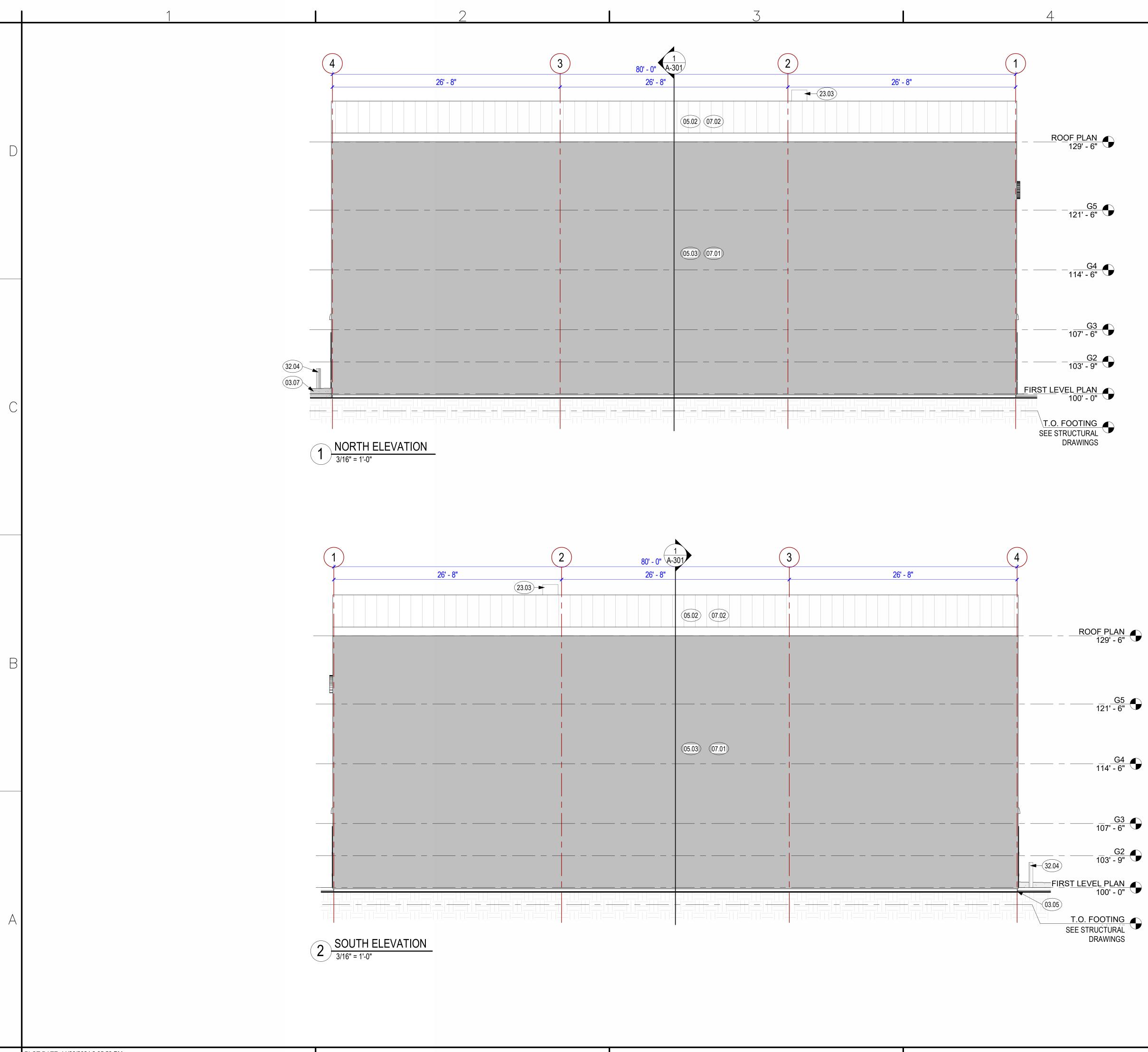
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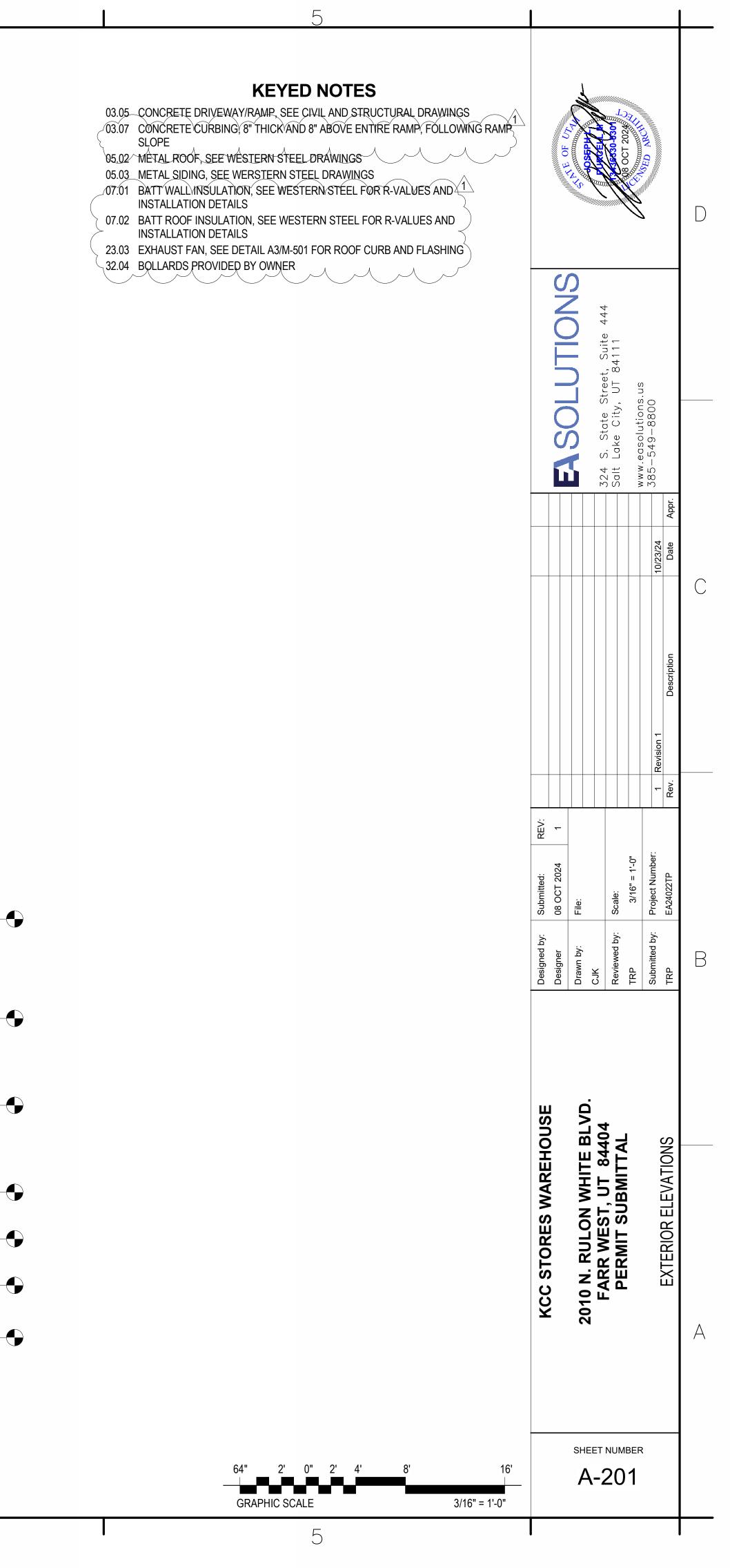
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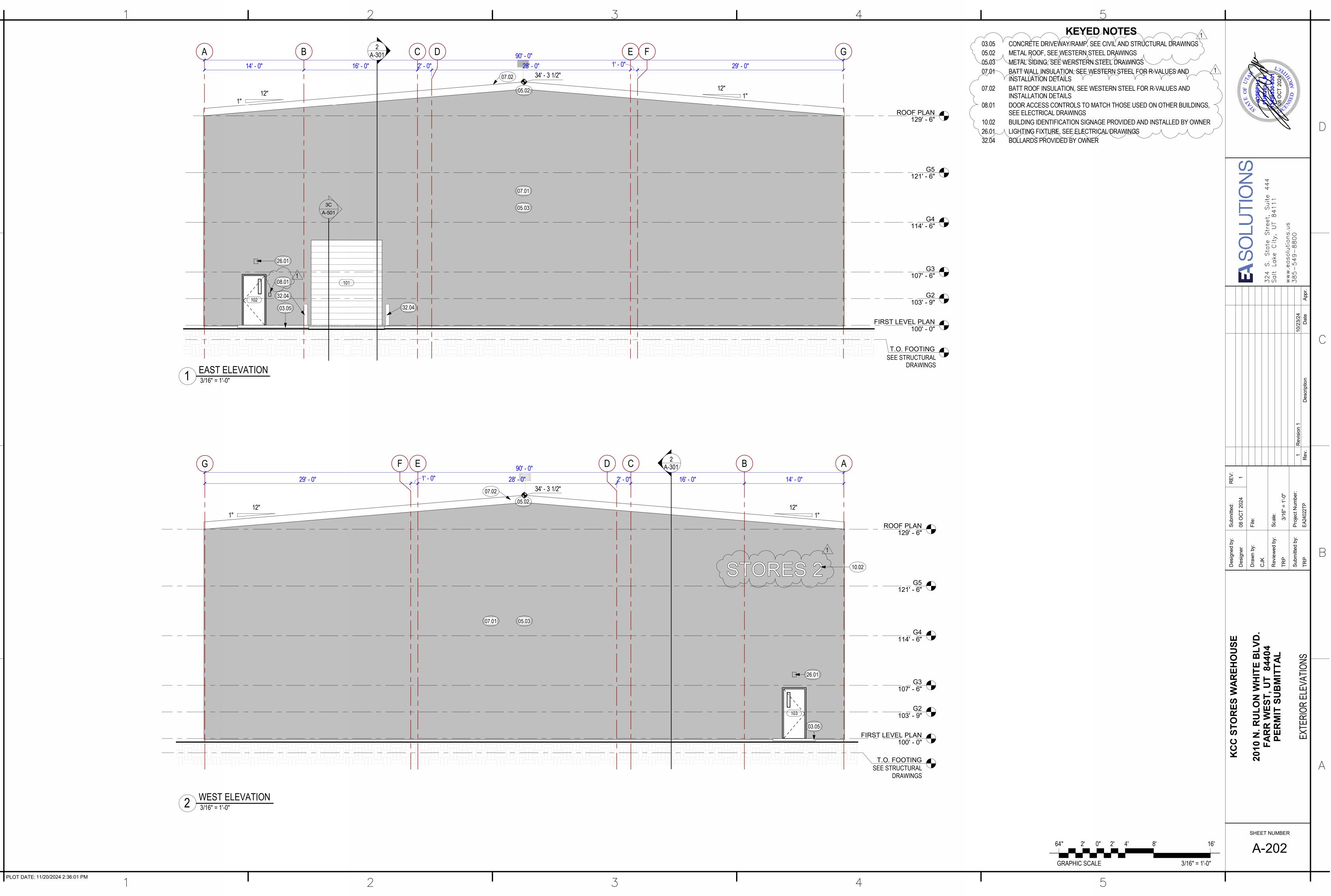
GRAPHIC SCALE

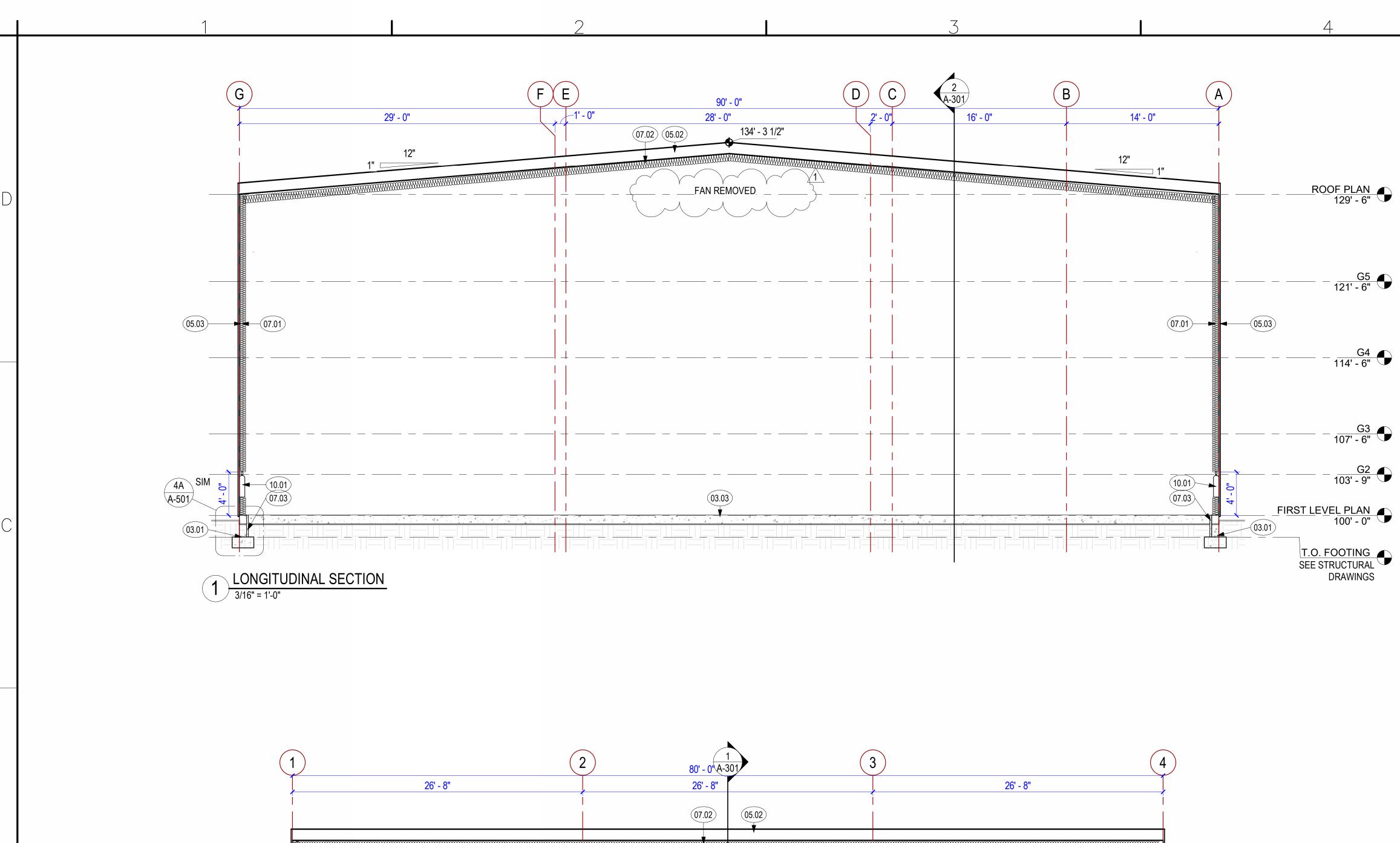


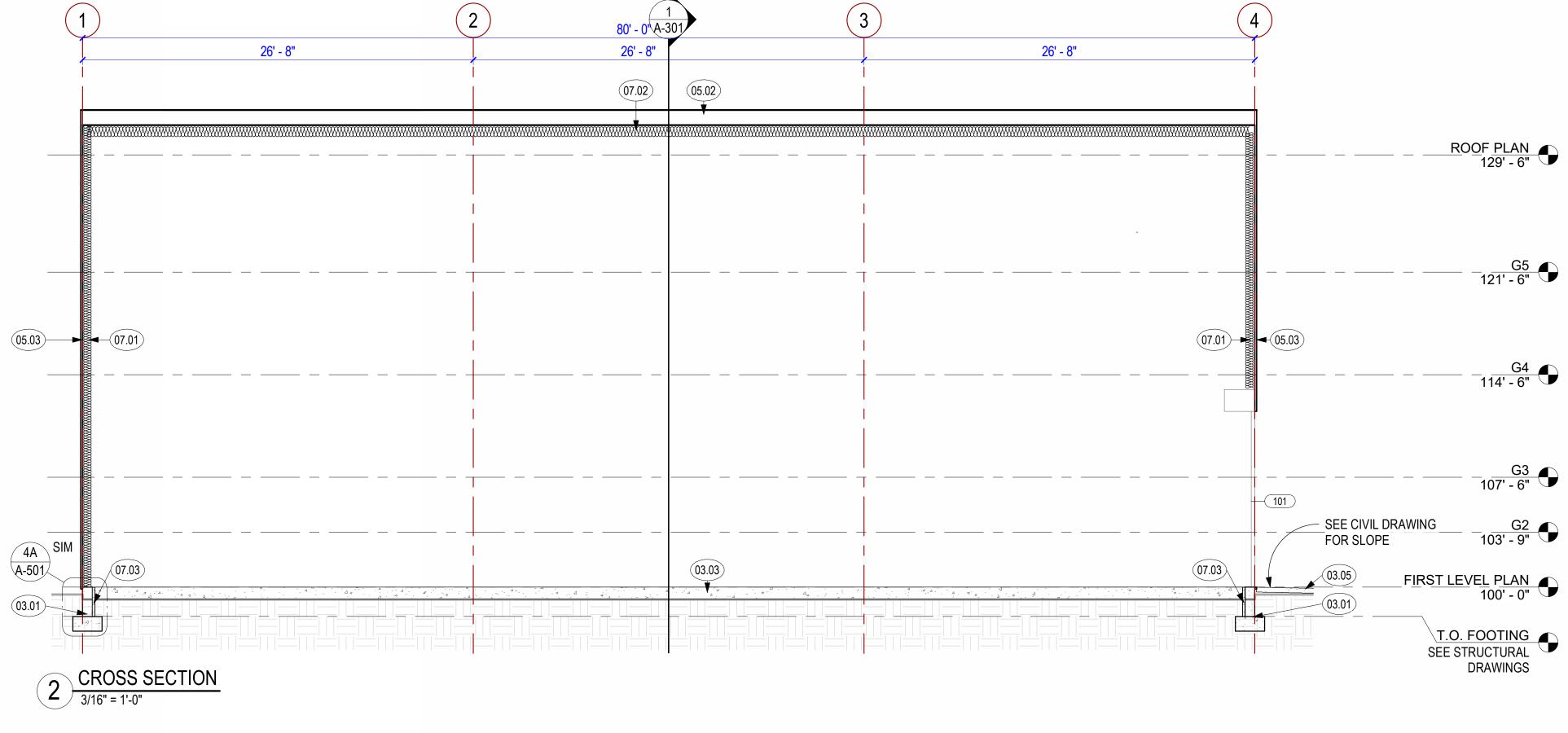


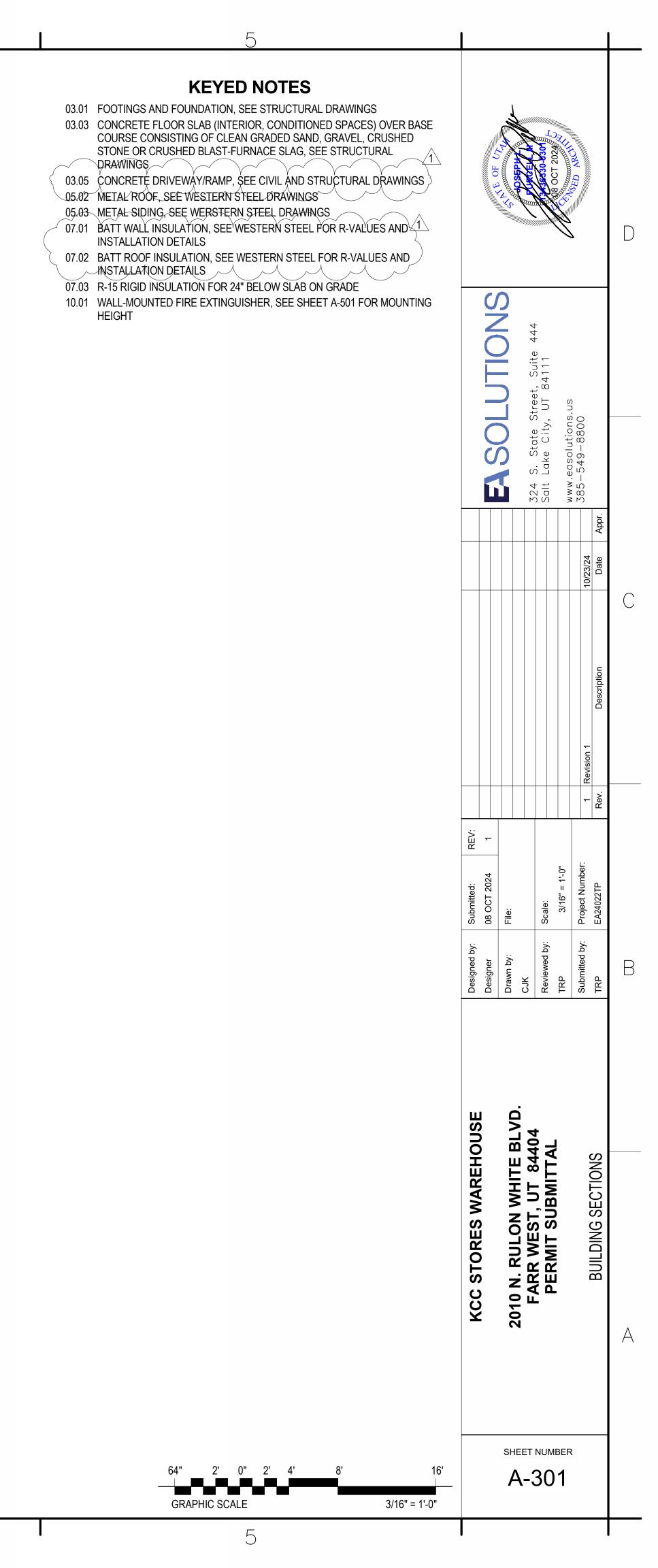




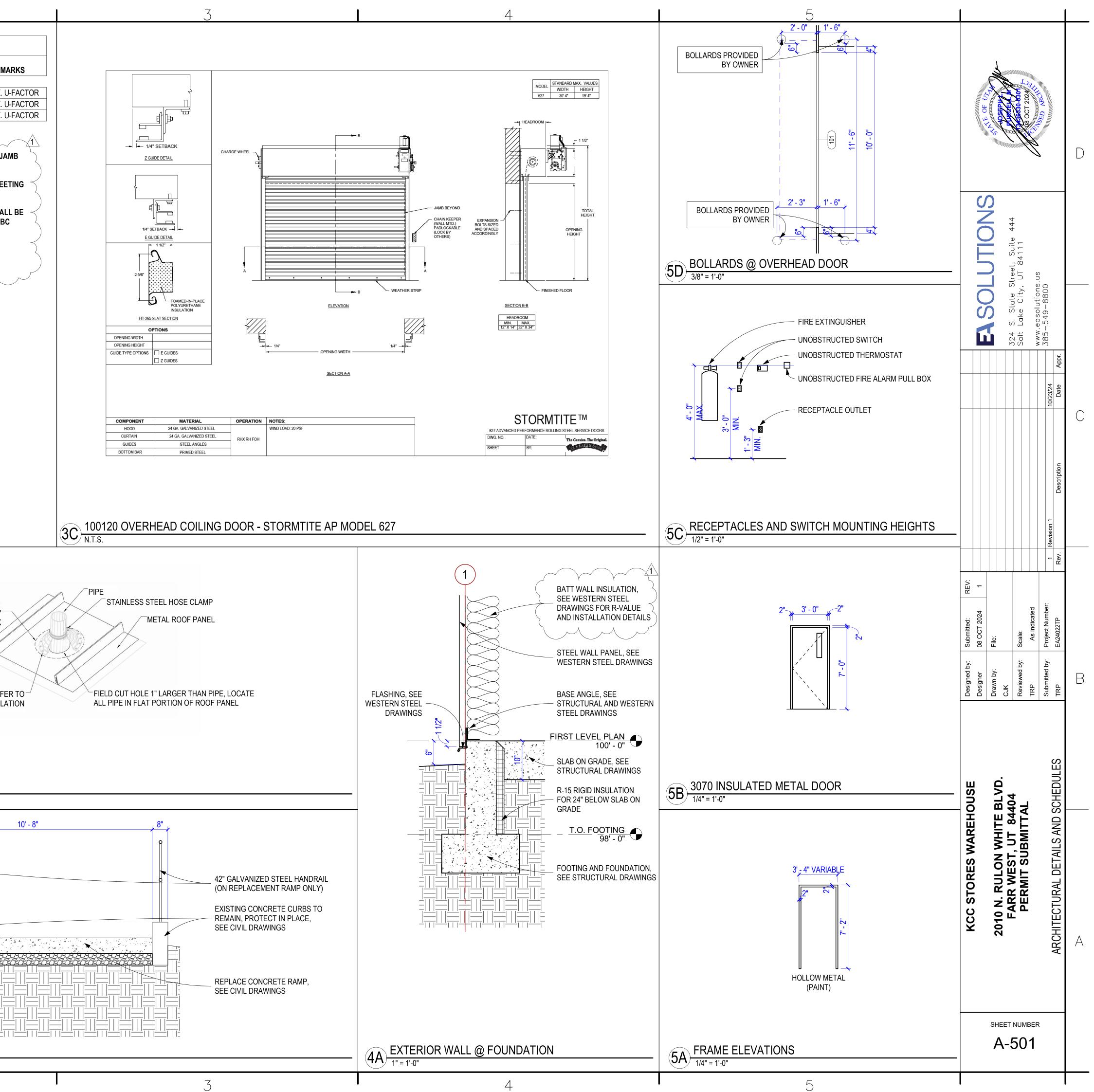


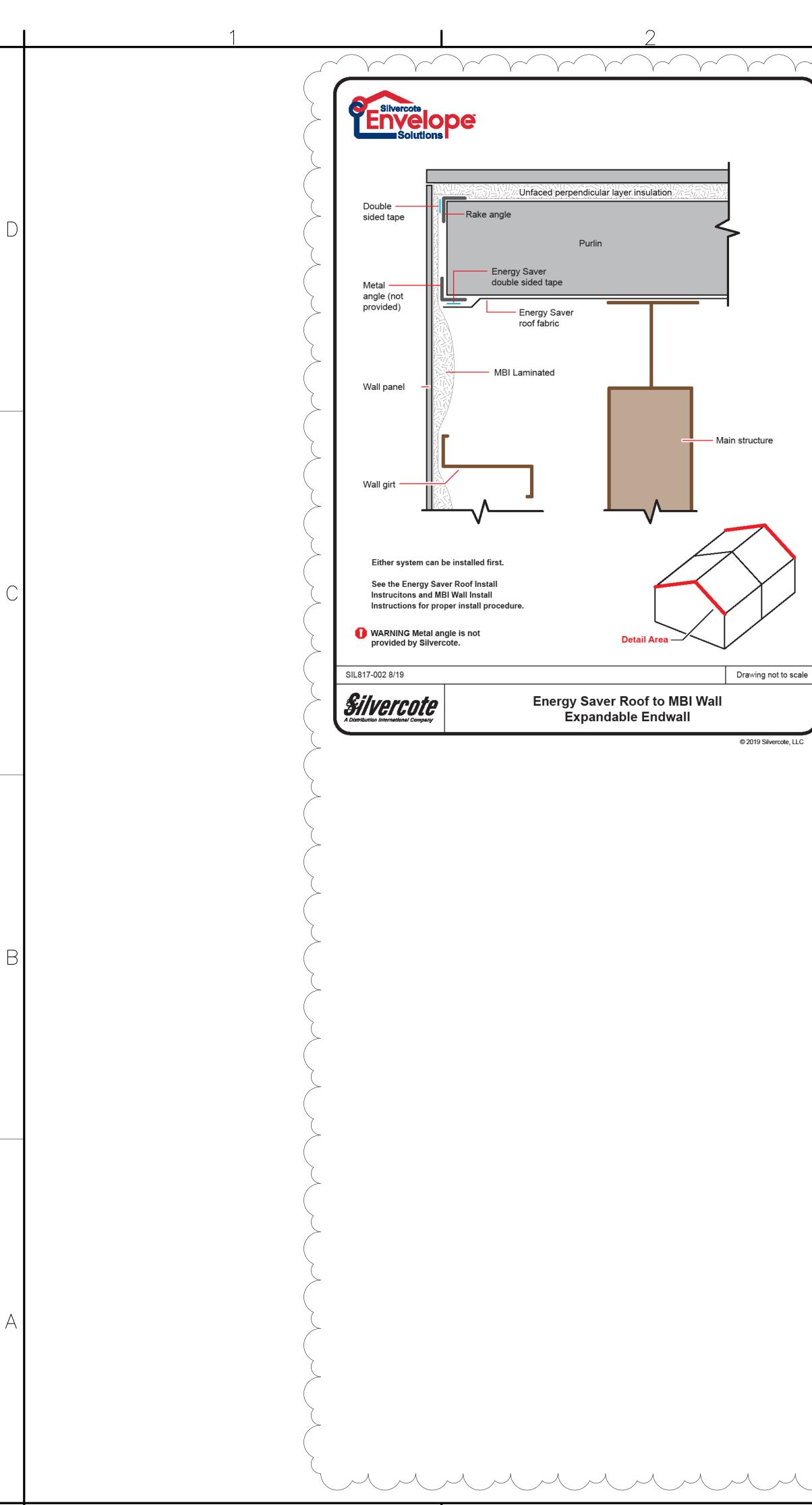


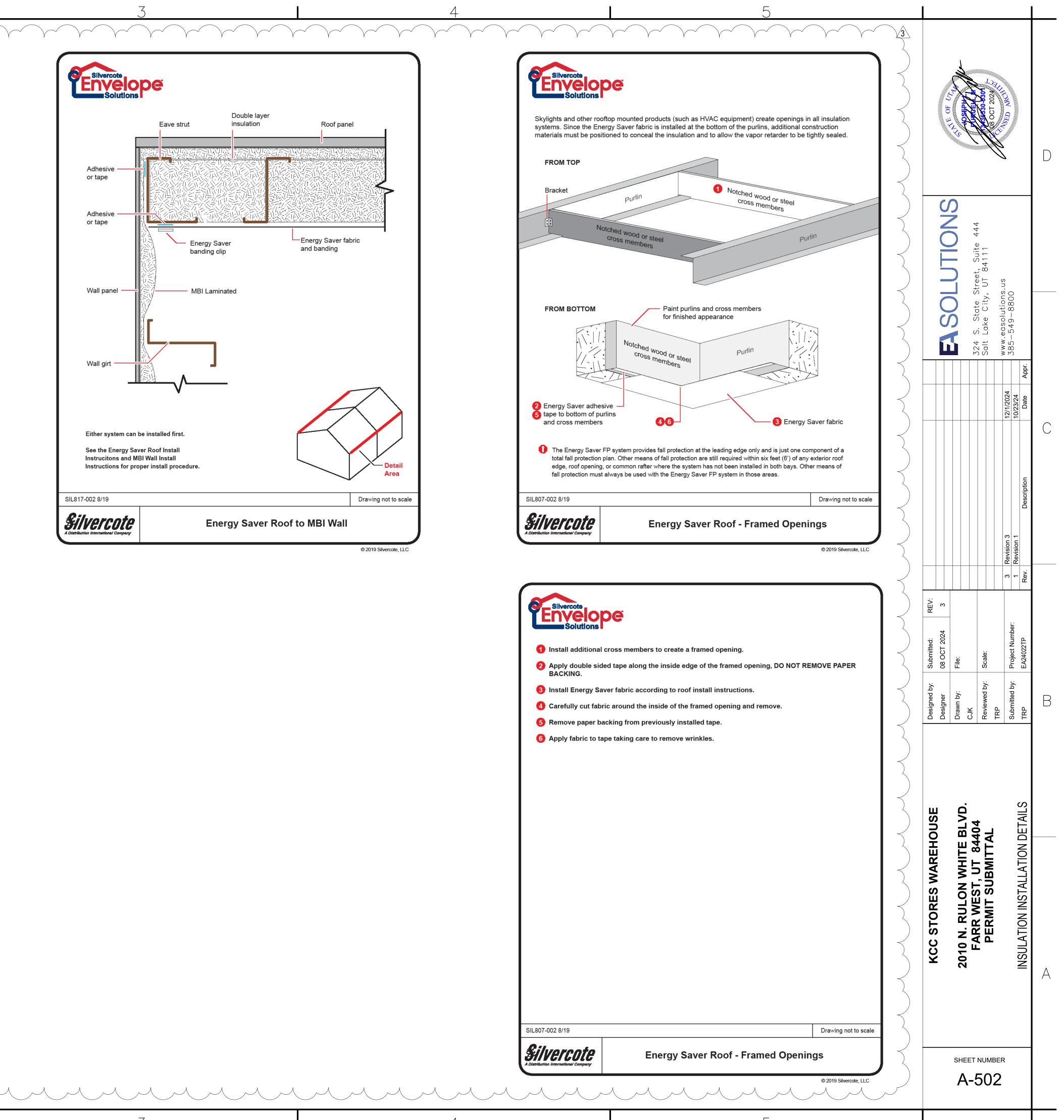


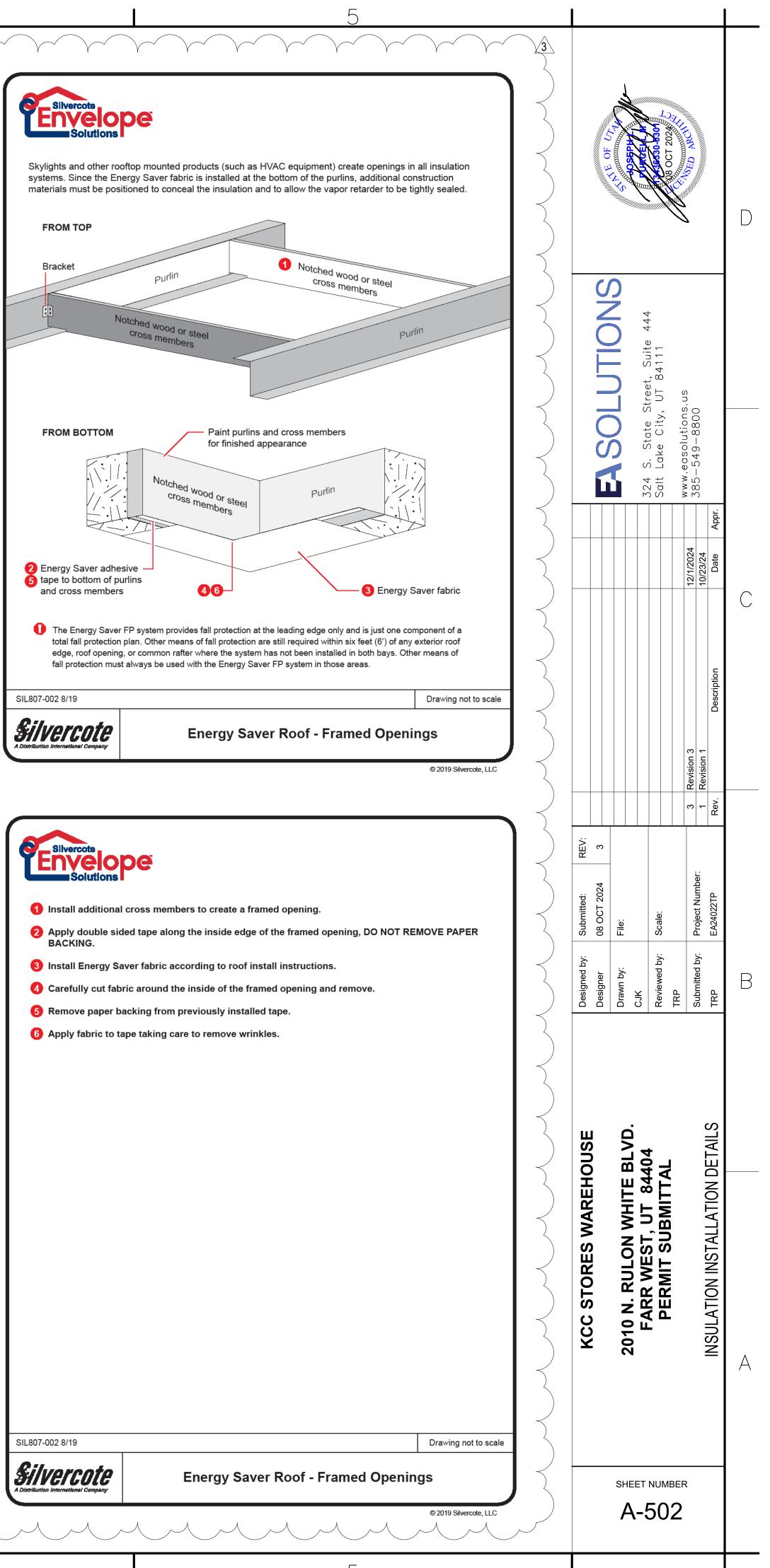


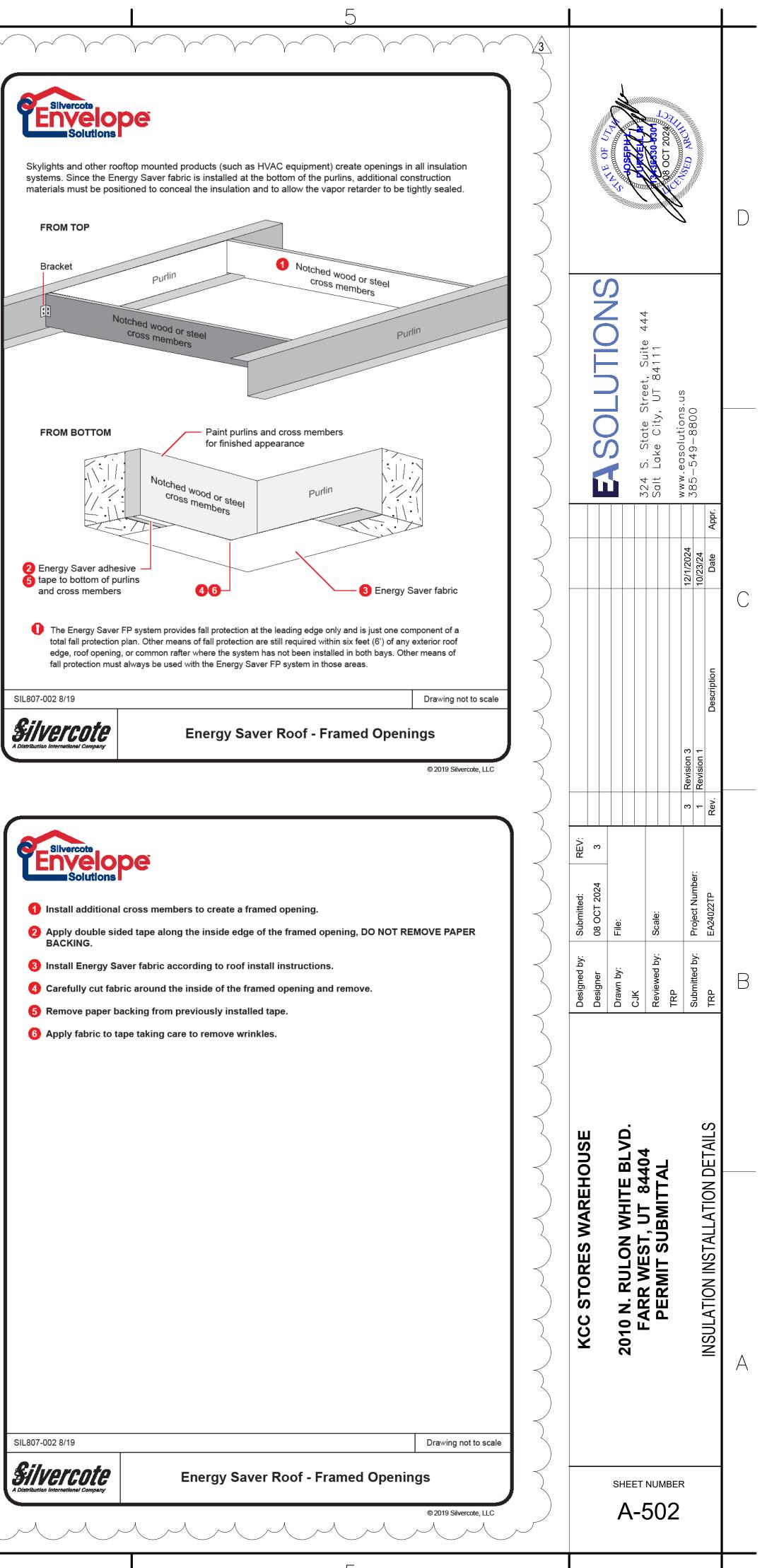
	MARK 101 102 103	WIDTH											
	101 102	WIDTH				2002	DOOR SCH	EDI	JLE				
	102		HEIGHT	THICK	ТҮРЕ	DOOR ELEV.	DOOR MAT'L & FIN	N.	FRAME MAT'L & FIN	FRAME PROFILE	FIRE RATE	HDWR	REM
		10' - 0" 3' - 0" 3' - 0"	12' - 0" 7' - 0" 7' - 0"		OVERHEAD - COILING HINGED HINGED	3C/A-501 5B/A-501 5B/A-501	INSULATED METAL, W	HITE	HOLLOW METAL, WHITE HOLLOW METAL, WHITE HOLLOW METAL, WHITE	NA 5A/A-501 5A/A-501	NONE NONE NONE	TBD TBD TBD	0.90 MAX. U 0.63 MAX. U 0.63 MAX. U
D	Stor Elec Air in Requ Cove Of Gu Door Size: Door	RHEAD DC MTITE AP TRIC (RH) IFILTRATI IREMENT R AND CA JIDE; LINT R 102: OOR MET 3070 R HAND: L	MODEL 6 () OPERAT ON PACKA () S 2021 C4 () YEATH () EL BRUSH () CAL BUILD HR	27 - WHI TION WITH AGE (MEE 02.4.3/20 IERSEAL I SEAL; E	EL SERVICE DOOR TE (OR EQUIVALENT) H INTERIOR CONTROLS TS IECC CODE 15 C402.5.2); INCLUDES S ON INTERIOR & EXTE COTTOM ASTRAGAL R (OR EQUIVALENT)	GUIDE	DET NOT AIR NOT PER 1010 NOT	AILS E: FA LEAK E: DO MITTE 0.2.11) E: SE	E WESTERN STEEL DRAW CTORY-BUILT FENESTRAT AGE REQUIREMENTS. OOR HARDWARE RELEASE ED ON DOORS IN THE MEA NSOR RELEASE OF ELECT ED ON DOORS LOCATED IN	TION AND DO	ORS AR IC LOCK SS IN AN G SYSTE	E LABEI ING SYS NY OCCU EMS SHA	LED AS MEE STEMS SHAL JPANCY (IBC ALL BE
(GLAS SUBF FINISH HARD LEVEH OTHE EXTR HARD DOOF TRUD	RAME SIZ H: WHITE WARE PA R AND DC R BUILDIA AS: KICKF WARE GF R 103: OOR MET	" INSULAT E: 6 1/2" ACKAGE: F OOR CLOSE GGS PLATE RADE: HEA	PANIC BA ER, ACCE	R RIM EXIT DEVISE W/C								
С	LITE K GLAS SUBF FINISI HARD W/ <u>NO</u> EXTR	R HAND: R KIT: 6" x 30 S TYPE: 1 RAME SIZ H: WHITE WARE PA OUTSIDE AS: KIGKF)" " INSULAT E: 6 1/2" A CKAGE: E TRIM AND	EXIT ONL		DEVISE	7						
										SUBSTR LARGER T			IUST BE 1"- OOF JACK
B								/К⊢	MANUFAC [®] PIPE PENETRATIC	OF JACK (DEK TURUER'S IN DN DETA	STRUCT		
A									N.T.S.	1 9 3/4" 1' - 8 1/4"			
							(2/		RAMP, CURB, AND /2" = 1'-0"		 _ = = _ = = =		

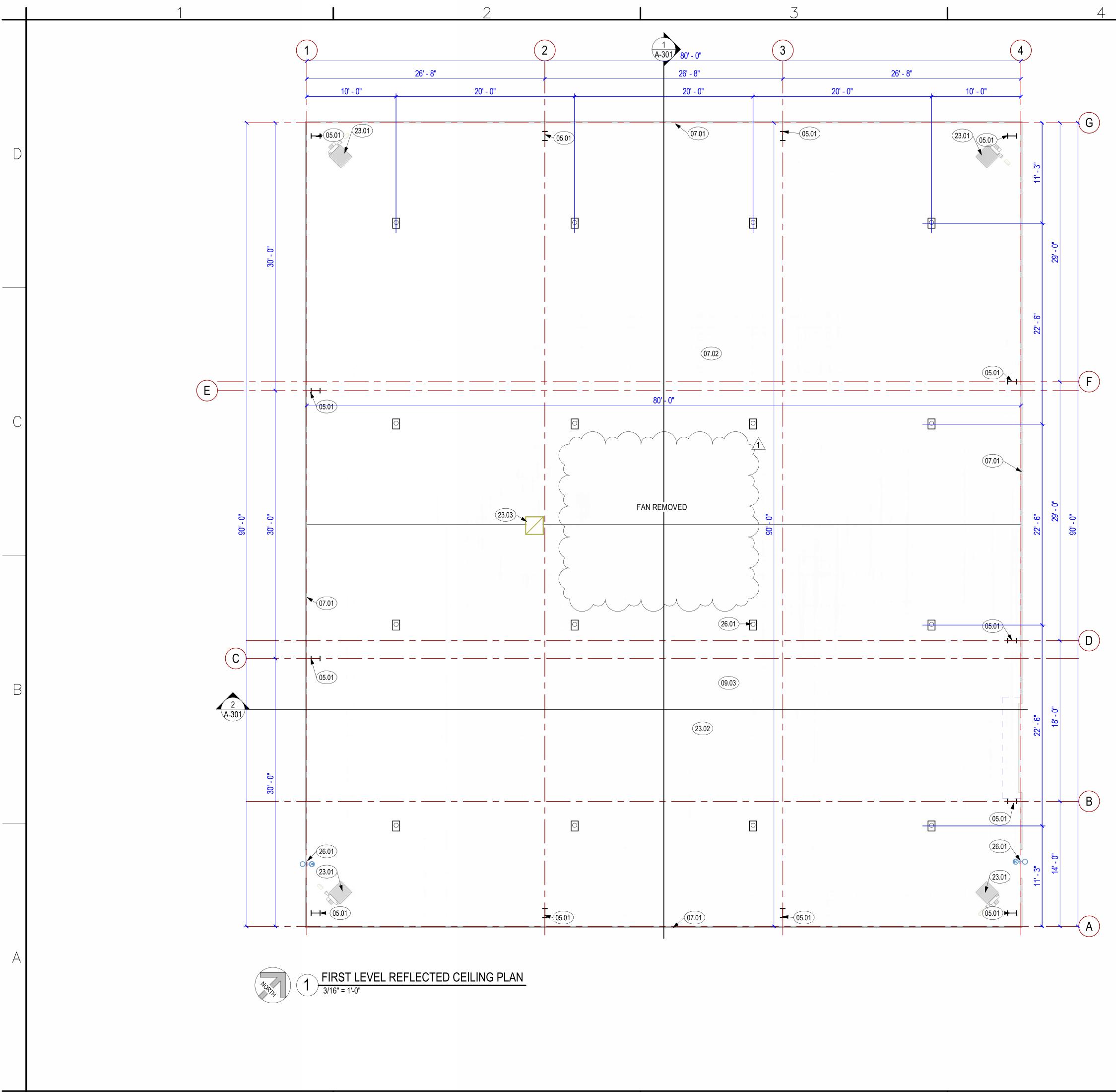


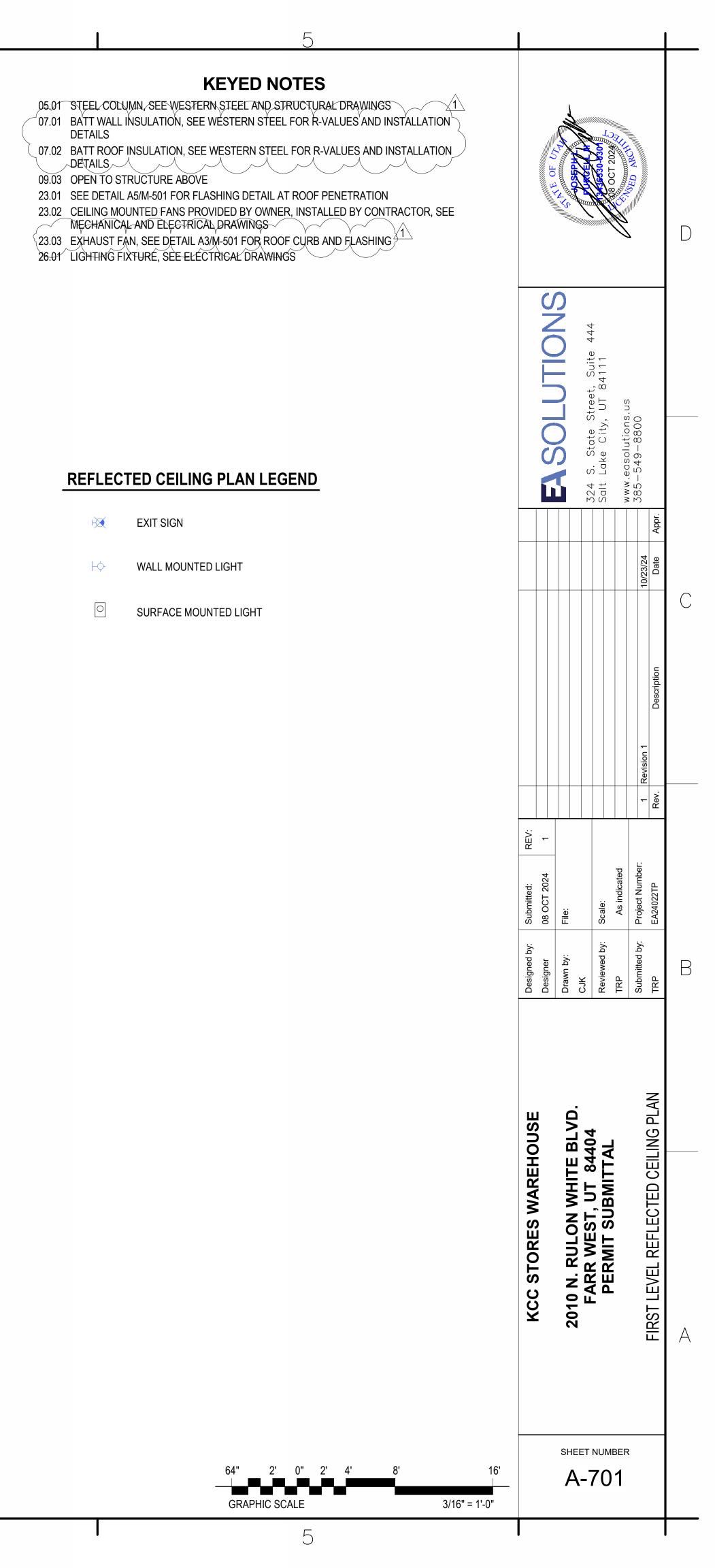












SYMBOL LEGEND - PIPING

STIVIDUL LEG	END - PIPING
NOTE: ALL ABBREVIATION	S MAY NOT BE USED.
SYMBOL	DESCRIPTION
	SHUT OFF VALVE
Image: A state of the state of	GATE VALVE
	CHECK VALVE
×	AUTOMATIC 2-WAY VALVE
	AUTOMATIC 3-WAY VALVE
	GLOBE VALVE
φ	BALL VALVE
Į.	RELIEF VALVE
	PRESSURE REDUCING VALVE
	BUTTERFLY VALVE
S Notes and the second	SOLENOID VALVE
	ANGLE VALVE
	VENTURI VALVE
\boxtimes	BALANCING OR PLUG COCK
\boxtimes	FLOW SETTER
\otimes	EXPANSION VALVE
	GAS COCK
	MANUAL AIR VENT
⊢ , y	STRAINER
O ₁	GAUGE COCK
	FLEXIBLE CONNECTION
9	PRESSURE GAUGE
ļ	THERMOMETER
->-	PIPE REDUCER
<u></u>	REFRIGERANT SITE GLASS
	REFRIGERANT STRAINER
	REFRIGERANT FILTER DRIER
o	90 DEGREE ELBOW UP
	90 DEGREE ELBOW DOWN
	90 DEGREE TEE UP
	90 DEGREE TEE DOWN
	PIPE UNION
	PIPE CAP
X	PIPE ANCHOR
	FLOAT AND THERMOSTATIC TRAP
·	·

SYMBOL LEGEND - MECH									
NOTE: ALL ABBREVIATIONS MAY NOT BE USED.									
SYMBOL	DESCRIPTION								
	SQUARE OR RECTANGULAR SUPPLY DIFFUSER								

	SQUARE OR RECTANGULAR SUPPLY DIFFUSER
	SQUARE OR RECTANGULAR RETURN DIFFUSER
	SQUARE OR RECTANGULAR EXHAUST DIFFUSER
\bigcirc	ROUND DIFFUSER
	LINEAR SLOT GRILLE OR DIFFUSER
	FLEXIBLE DUCT
	SIDEWALL GRILLE OR REGISTER
	DUCT HIGH EFFICIENCY TAKE OFF WITH BALANCING DAMPER
	BALANCING DAMPER
	FIRE DAMPER
	FIRE / SMOKE COMBINATION DAMPER
	THERMOSTAT - SENSOR - HUMIDISTAT



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SVMPOL LEOEM	ND - DUCTWORK
STIVIDUL LEGEI NOTE: ALL ABBREVIATIO	
SYMBOL	DESCRIPTION
	RECTANGULAR SUPPLY DUCT UP
	RECTANGULAR SUPPLY DUCT DOWN
	RECTANGULAR RETURN DUCT UP
	RECTANGULAR RETURN DUCT DOWN
	RECTANGULAR EXHAUST DUCT UP
	RECTANGULAR EXHAUST DUCT DOWN
	ROUND SUPPLY DUCT UP
	ROUND SUPPLY DUCT DOWN
	ROUND RETURN DUCT UP
	ROUND RETURN DUCT DOWN
	ROUND EXHAUST DUCT UP
	ROUND EXHAUST DUCT DOWN
	OVAL SUPPLY DUCT UP
	OVAL SUPPLY DUCT DOWN
	OVAL RETURN DUCT UP
	OVAL RETURN DUCT DOWN
	OVAL EXHAUST DUCT UP
	OVAL EXHAUST DUCT DOWN
	SPIRAL OVAL DUCT
	SPIRAL ROUND DUCT
	DUCT INSULATION
	DUCT LINING
	90° RECTANGULAR ELBOW WITH TURNING VANES
	90° ROUND RADIUS ELBOW
	GORED OVAL RADIUS ELBOW
	DUCT SIZE OR SHAPE TRANSITION
	DUCT TO BE DEMOLISHED

PIPING LEGEND

PIPING LEGEND										
NOTE: ALL ABBREVIATIONS MAY NOT BE USED.										
ABBREVIATION	DESCRIPTION									
CHWR	CHILLED WATER RETURN									
CHWS	CHILLED WATER SUPPLY									
CA	COMPRESSED AIR									
CD	CONDENSATE DRAIN									
C02	CARBON DIOXIDE									
CWR	CONDENSER WATER RETURN									
CWS	CONDENSER WATER SUPPLY									
——————————————————————————————————————	FIRE PROTECTION									
FOR	FUEL OIL RETURN									
FOS	FUEL OIL SUPPLY									
——FOV——	FUEL OIL VENT									
GR	GLYCOL RETURN									
GS	GLYCOL SUPPLY									
HPC	HIGH PRESSURE CONDENSATE									
MPC	MEDIUM PRESSURE CONDENSATE									
LPC	LOW PRESSURE CONDENSATE									
HPS	HIGH PRESSURE STEAM									
MPS	MEDIUM PRESSURE STEAM									
LPS	LOW PRESSURE STEAM									
HHWR	HEATING HOT WATER RETURN									
HHWS	HEATING HOT WATER SUPPLY									
LPG	LIQUID PROPANE GAS									
MA	MEDICAL AIR									
NG	NATURAL GAS									
NO	NITROUS OXIDE									
0	OXYGEN									
PC	PUMPED CONDENSATE									
RG	REFRIGERANT GAS									
	REFRIGERANT LIQUID									
SMR	SNOW MELT RETURN									
SMS	SNOW MELT SUPPLY									
VAC	VACUUM									

SY	SYMBOL LEGEND - MISC										
F	REFERENCE LINES AND SYMBOLS										
SYMBOL	DESCRIPTION										
-	VIEW OR DETAIL INDICATOR: # INDICATES DETAIL NUMBER, SHEET INDICATES DRAWING SHEET WHERE VIEW OR DETAIL IS SHOWN.										
	ELEVATION OR SECTION INDICATOR: # INDICATES VIEW NUMBER, SHEET INDICATES DRAWING SHEET WHERE VIEW IS SHOWN.										
NAME ###	ROOM / SPACE INDICATOR										
(#)	KEYNOTE INDICATOR										
<u></u>	REVISION INDICATOR										
(XX-##)	PLUMBING FIXTURE INDICATOR										
XX-##	EQUIPMENT INDICATOR										
TAG CFM	REGISTER, GRILLE, OR DIFFUSER INDICATOR										
-≁- OR ∽	BREAKLINE										
MATCH LINE SEE XX/XXX	MATCHLINE INDICATOR										
	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE										
\bullet	NEW CONNECTION TO EXISTING										
	POINT OF DEMOLITION										

ABBREVIATIONS

	NOTE: ALL ABBREVIATIONS MAY NOT BE USED.
(E)	EXISTING
(F) AC	FUTURE AIR CONDITION(-ING,-ED)
APD	AIR PRESSURE DROP
BD BHP	BALANCING DAMPER BRAKE HORSE POWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU/HOUR
CFH CFM	CUBIC FEET PER HOUR CUBIC FEET PER MINUTE
CV	CONTROL VALVE
DB DCW	DRY BULB TEMPERATURE DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RECIRC
DP EA	DEPTH, DEEP, OR DROP IN PRESSURE EXHAUST AIR
EER	ENERGY EFFICIENCY RATIO
EFF ELEC	EFFICIENCY ELECTRIC
ELEV	ELEVATION
ENT EVAP	ENTERING EVAPORAT(-E, -ING, -ED, -OR)
EWT	ENTERING WATER TEMPERATURE
EXT FD	EXTERNAL FIRE DAMPER
FLA	FULL LOAD AMPS
FPI	FINS PER INCH
FPM FPS	FEET PER MINUTE FEET PER SECOND
FSD	FIRE SMOKE DAMPER
GE GPH	GREASE EXHAUST GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD HG	HEAD MERCURY
HP	HORSEPOWER
HR HTG	HOUR HEATING
HZ	HERTZ (FREQUENCY)
IN	INCH KILOWATT
KW LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LH LRA	LATENT HEAT LOCKED ROTOR AMPS
LVG	
LWT MBH	LEAVING WATER TEMPERATURE THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MFR NC	MANUFACTUR(-ER, -ED) NORMALLY CLOSED OR NOISE CRITERIA
NIC	NOT IN CONTRACT
NO NPSH	NORMALLY OPEN NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA OD	OUTSIDE AIR OUTSIDE DIAMETER
OZ	OUNCE
PD PG	PRESSURE DROP OR DIFFERENCE PROPOLENE GLYCOL
PH	PHASE
PPM PSF	PARTS PER MILLION POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA PSIG	PSI ABSOLUTE PSI GAUGE
RA	RETURN AIR
RECIRC REFR	RECIRCULATE (-ER, -ED, -ING) REFRIGERATION
REQD	REQUIRED
RLA RPM	RATED LOAD AMPS REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SCFM SCW	STANDARD CUBIC FEET PER MINUTE SOFT COLD WATER
SCW	SENSIBLE HEAT
SP SPEC(S)	STATIC PRESSURE
SPEC(S) SQ	SPECIFICATION(S) SQUARE
SS	SANITARY SEWER, SOIL, WASTE
STD TA	STANDARD TRANSFER AIR
TD	TEMP. DROP OR DIFF.
TEMP TOT	TEMPERATURE TOTAL
TSTAT	THERMOSTAT
TYP V	TYPICAL VOLT, VOLTAGE OR VENT
VAC	VACUUM
VAV VEL	VARIABLE AIR VOLUME VELOCITY
VENT	VENT, VENTILATION
VERT VFD	VERTICAL VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VTR WB	VENT THROUGH ROOF WET BULB TEMP
WC	WATER COLUMN
WG WPD	WATER GAUGE WATER PRESSURE DROP
WTR	WATER

6	
MECHANICAL GENERAL	NOTES
 THE MECHANICAL DRAWINGS SHOW THE GENERAL DES & EXTENT OF THE MECHANICAL SYSTEM. BECAUSE OF T THE DRAWINGS, THESE DRAWINGS DO NOT SHOW ALL O ELBOWS NECESSARY FOR THE COMPLETE INSTALLATIO PROVIDED. CONTRACTOR SHALL MAKE ALTERATIONS AS NECESSARY TO MAKE THE SYSTEM COMPLETE & OPERA ACCORDANCE WITH THE DESIGN INTENT. MAJOR DEVIATIONS SUCH AS CHANGES IN SIZES, WEIGH MATERIAL REQUIRE PRIOR APPROVAL BY THE DESIGN E THE DRAWINGS & SPECIFICATIONS HAVE BEEN PREPAR 	THE SMALL SCALE OF OFFSETS, BENDS, OR IN THE SPACE S MAY BE ATIONAL IN HTS, QUANTITIES, OR INGINEER.
 EACH OTHER & SHALL BE INTERPRETED AS AN INTEGRA ITEMS SHOWN ON ONE & NOT THE OTHER BEING FURNIS AS THOUGH SHOWN AND CALLED OUT IN BOTH DOCUME 4. THE ENTIRE MECHANICAL INSTALLATION SHALL CONFOF REQUIREMENTS OF THE MOST RECENTLY ADOPTED BUI MECHANICAL CODE, PLUMBING CODE, ELECTRICAL COD APPLICABLE CITY, COUNTY, STATE, & FEDERAL CODES & EFFECT. 5. THE ENTIRE MECHANICAL INSTALLATION SHALL CONFOF 	AL UNIT WITH THE SHED & INSTALLED ENTS. RM TO THE ILDING CODES, DE, & ALL OTHER & REGULATIONS IN
 THE ENTIRE MECHANICAL INSTALLATION SHALL CONFOR RULES, REGULATIONS, & REQUIREMENTS OF THE BUILD ALL MECHANICAL COMPONENTS AND EQUIPMENT SHALL CONFORM WITH ANY APPLICABLE LOCAL SEISMIC REQU PRIOR TO FABRICATION & INSTALLATION OF ANY MECHA THE CONTRACTOR SHALL COORDINATE THE INSTALLATION MECHANICAL WORK WITH ALL OTHER BUILDING TRADES BUILDING TRADES HIRED DIRECTLY BY THE OWNER. WH MAY OCCUR, THEY SHALL BE RESOLVED PRIOR TO INST 	ING OWNER. L BE INSTALLED TO IIREMENTS. ANICAL COMPONENT ION OF ALL S, INCLUDING IERE CONFLICTS
 VERIFY ALL REQUIRED SERVICE CONNECTIONS, INCLUD CHARACTERISTICS, FOR ALL EQUIPMENT PRIOR TO ORD FABRICATING MECHANICAL EQUIPMENT AND COMPONEL THE SPACE ABOVE CEILINGS IS LIMITED. CAREFUL COOF REQUIRED WITH ALL TRADES BEFORE ANY PIPE, DUCT, ORDERED &/OR INSTALLED. ANY CONFLICTS &/OR CHAN INSTALLATION THAT RESULTS FROM THE LACK OF COOF CONTRACTORS DURING THE SHOP DRAWING PROCESS RESPONSIBILITY OF THE CONTRACTOR. 	DERING OR NTS. RDINATION IS OR EQUIPMENT IS IGES FOUND DURING RDINATION BY THE
10. ALL MECHANICAL INFORMATION IS NOT SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE OF ALL INFORMATION ON ALL OTHER CONSTRUCTION D	FOR COORDINATION
 THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW APPROPRIATE, ALL THE MECHANICAL DETAILS SHOWN O DETAILS MAY OR MAY NOT BE CALLED OUT ON THE DRA SYMBOLS OR KEYED NOTES. ANY CHANGES RESULTING INSTALL THE MECHANICAL SYSTEM WITHOUT USING THE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL EQUIPMENT SHALL BE INDEPENDENTLY SUPPORTED STRUCTURAL MEMBERS. STRUCTURAL ELEMENTS SHOWN 	& USE, WHERE ON THE DRAWINGS. WINGS WITH FROM FAILURE TO E INCLUDED DETAILS O FROM
 OR MAY NOT PERTAIN TO ANY PORTION OF THE BUILDIN MOUNTING REQUIREMENTS WITH ARCHITECTURAL & ST DRAWINGS AND SPECIFICATIONS. 13. ALL MECHANICAL COMPONENTS AND EQUIPMENT SHALL ACCORDANCE WITH ALL MANUFACTURER RECOMMEND. 14. ALL SIMILAR EQUIPMENT SHALL BE OF THE SAME MANUFACTURES & OUTLETS OF SIMILAR TYPES SHALL BE OF THE 	IG. COORDINATE ALL RUCTURAL L BE INSTALLED IN ATIONS. FACTURER. AIR

- INLETS & OUTLETS OF SIMILAR TYPES SHALL BE OF THE SAME MANUFACTURER. 15. ANY PART OF THE MECHANICAL INSTALLATION THAT FAILS, IS DEEMED UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EQUIPMENT
- CHECK-IN, SAFEKEEPING, & DAMAGE. 16. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING DIFFUSERS & GRILLES. 17. CONTRACTOR SHALL OPERATE INSTALLED &/OR MODIFIED SYSTEMS &
- DEMONSTRATE ALL ASPECTS OF THE SYSTEM TO THE ENGINEER &/OR OWNER TO PROVE ALL ASSOCIATED SYSTEMS ARE OPERATIONAL. 18. DURING CONSTRUCTION THE CONTRACTOR SHALL MAINTAIN A SET OF AS-BUILT REDLINED RECORD DRAWINGS AT THE PROJECT SITE. ALL CHANGES OR DEVIATIONS IN LAYOUT, ROUTING, EQUIPMENT, COMPONENTS, & ACCESSORIES SHALL BE RECORDED. THESE REDLINED DRAWINGS SHALL
- BE GIVEN TO THE ARCHITECT / ENGINEER AFTER THE FINAL INSPECTION IN ACCORDANCE WITH PROJECT SPECIFICATIONS. 19. ALL DUCT ELBOWS SHALL BE LONG RADIUS, UNLESS NOTED OTHERWISE.

DEFINITIONS

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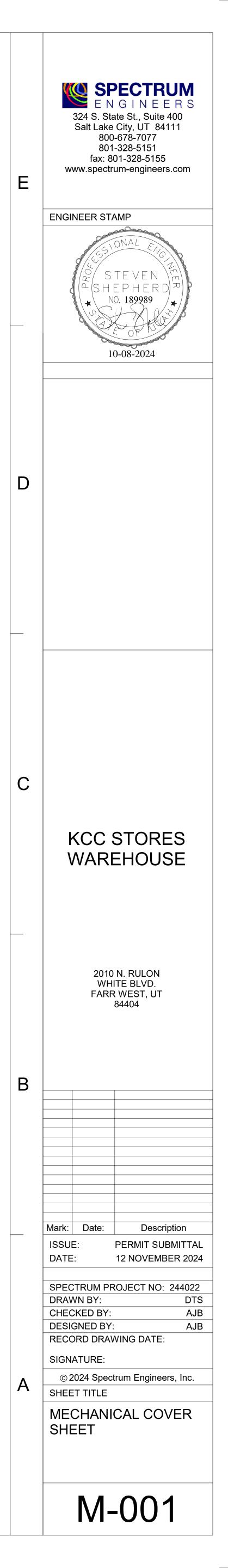
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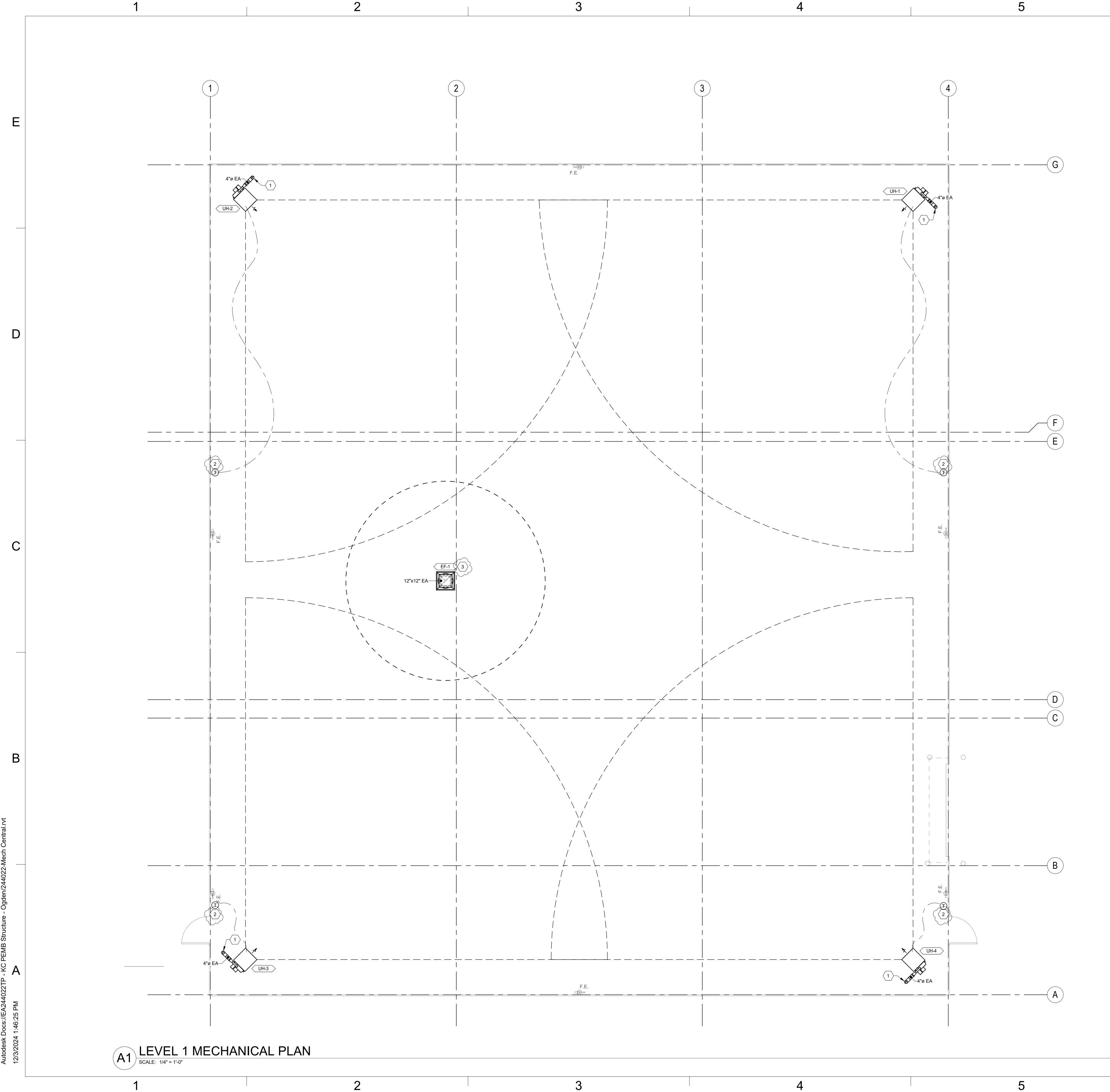
INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

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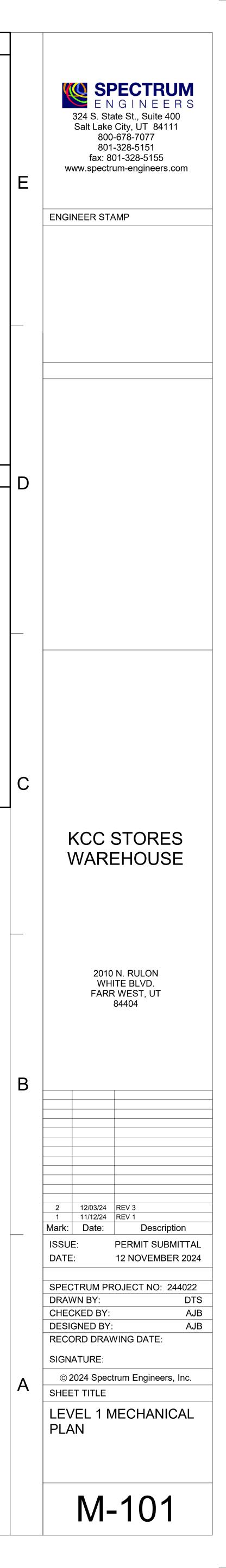




MECHANICAL GENERAL NOTES 1. ALL EQUIPMENT TO BE SELECTED BASED OFF OF SITE INFORMATION, INCLUDING CURBS EQUAL TO OR GREATER THAN DESIGN SNOW DEPTH. ELEVATION: 4400' WDB: 5F DESIGN SNOW DEPTH: 18" 2. THIS CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE. 3. COORDINATE EXACT THERMOSTAT LOCATIONS WITH FURNITURE AND OWNER. FAILURE TO DO SO MAY REQUIRE MOVING THERMOSTATS AT CONTRACTORS COST. 4. CONTRACTOR SHALL FIELD VERIFY EXISTING FIELD CONDITIONS PRIOR TO ORDERING OR FABRICATING. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS. 5. PROVIDE FACTORY AUTHORIZED STARTUP OF ALL EQUIPMENT INCLUDING STARTUP OF ANY FACTORY CONTROLS TO ENSURE PROPER SEQUENCING AND/OR COMMUNICATION TO BMS. 6. PROVIDE OPERATION AND MAINTENANCE MANUALS (O&M) WITHIN 30 DAYS OF CERTIFICATE OF OCCUPANCY FOR ALL EQUIPMENT IN DIGITAL FORMAT TO ENGINEER FOR REVIEW. O&M'S SHALL INCLUDE DOCUMENTATION OF ALL WARRANTIES, REPORTS AND TESTS, RECORD DRAWINGS, CONTROLS SEQUENCE OF OPERATIONS WITH DIAGRAMS, & EQUIPMENT INFORMATION. EQUIPMENT INFORMATION INCLUDES MAKE & MODEL, WIRING, PIPING, STARTUP, SHUTDOWN, TROUBLE SHOOTING SYSTEM AND MAINTENANCE PROCEDURES. 7. WHERE JURISDICTION REQUIRES, CONTRACTOR IS RESPONSIBLE FOR PROVIDING SEISMIC RESTRAINT AND SUPPORT ENGINEERED BY A LICENSED STRUCTURAL ENGINEER. PROVIDE DESIGN DRAWINGS TO AUTHORITY HAVING JURISDICTION AND MECHANICAL ENGINEER FOR REVIEW. -8. THERMOSTATS TO BE SET TO 50F DURING WINTER MONTHS.

⊖ SHEET KEYNOTES

- VENT TO ROOF. PROGRAM THERMOSTAT TO 55F.
- ROOF MOUNTED EXHAUST FAN TO PROVIDE OUTSIDE AIR VIA INFILTRATION THROUGH METAL BUILDING.
- PEOPLE: 0 SQFT: 0.06 CFM/FT * 7242 FT = 435 CFM
- OUTSIDE AIR PROVIDED BY EXHAUST FAN: 500 CFM





REMARKS:

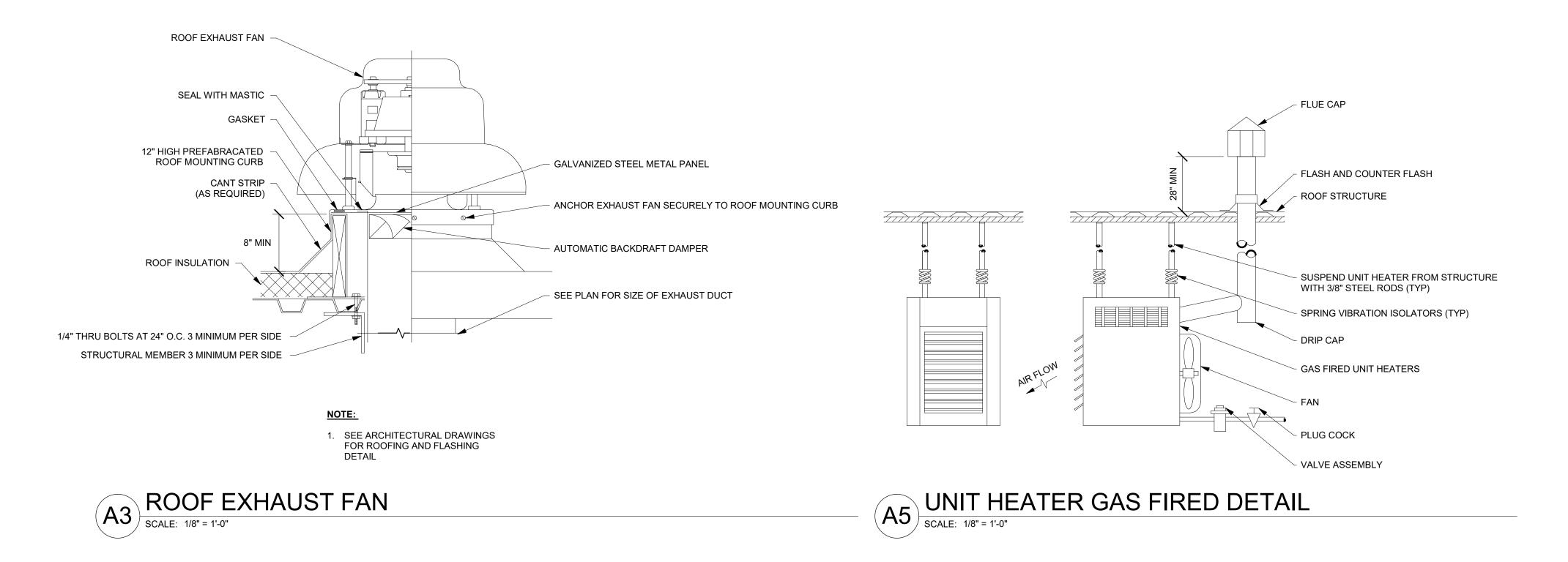
HEATER SCHEDULE (GAS FIRED)

(1) PROVIDE WITH STAINLESS STEEL HEAT EXCHANGER. (2) PROVIDE WITH HIGH ALTITUDE KIT. (3) PROVIDE WITH FINGER PROOF FAN GUARD. (4) SET THERMOSTATS TO 55F.

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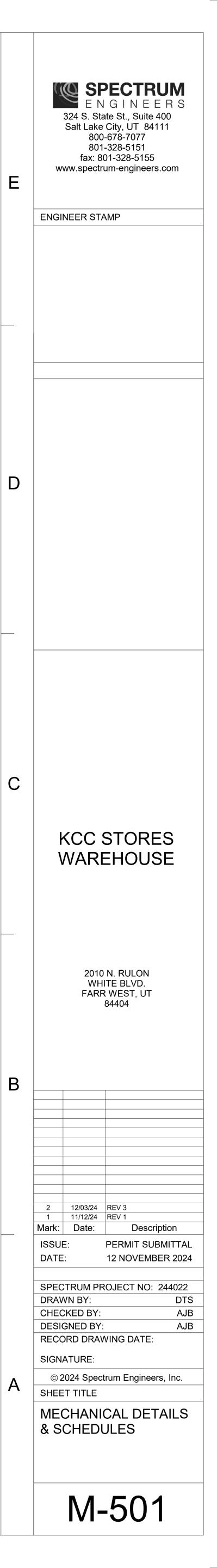
	MOUNTING		HEATING	CAPACITY		AIR TEMP	VENTING			ELECTRICAL						DISCONNECT				
	HEIGHT	AIRFLOW	INPUT	OUTPUT		RISE	HEAT								EMERG	PROVIDED BY	WEIGHT			
TYPE	(AFF)	(CFM)	(BTUH)	(BTUH)	STAGES	(°F)	THROW	TYPE	SIZE	VOLTS	PHASE	Hz	MCA	MOCP	POWER	(MECH/ ELEC)	(LBS)	MANUFACTURER	MODEL	REMARK
ORIZONTAL FLOW	14' - 0''	1,650	85,000	79,050	1	70	38'	DOUBLE WALL B VENT	4"	120	1	60	5	15	NO	ELEC	125	MODINE	PTC85AS0111	ALL
RIZONTAL FLOW	14' - 0''	1,650	85,000	79,050	1	70	38'	DOUBLE WALL B VENT	4"	120	1	60	5	15	NO	ELEC	125	MODINE	PTC85AS0111	ALL
ORIZONTAL FLOW	14' - 0''	1,650	85,000	79,050	1	70	38'	DOUBLE WALL B VENT	4"	120	1	60	5	15	NO	ELEC	125	MODINE	PTC85AS0111	ALL
ORIZONTAL FLOW	14' - 0''	1,650	85,000	79,050	1	70	38'	DOUBLE WALL B VENT	4"	120	1	60	5	15	NO	ELEC	125	MODINE	PTC85AS0111	ALL

								EXH	IAUS	ST FAN	N SCHED	ULE					
ACCEPTABL	LE MANUFACTURE	ERS: CC	NTROLS:									REMARKS:				SCHEDULE KEY	,
ACCEPTABLE MANUFACTURERS: PENN BARRY LOREN COOK TWIN CITY GREENHECK BROAN PANASONIC			(A) PROVIDE TIME CLOCK AND RUN CONTINUOUSLY DURING BUSINESS HOURS. (B) PROVIDE WITH SWITCH FOR ON/OFF SWITCH OPERATION.									 PROVIDE WIT SUPPORT BR BELT TENSIO PROVIDE VAR FANS. TEST A POSITION ON PROVIDE EC I PROVIDE FAC INCLUDING S PROPER SEC 	ACKETS ANI NER. NABLE SPEE ND BALANC CONTROLL MOTOR VARI TORY AUTH TARTUP OF	PLUMB = DIVISI MECH = DIVISIO ELEC = DIVISIO MNFR = MANUF	N 23 N 26		
	ELECTRICAL DISCONN					DISCONNECT											
				ESP						EMERG	PROVIDED BY	CONTROL	SOUND	WEIGHT			
LABEL	SERVES	TYPE	CFM	(IN-WC)	FAN RPM	VOLTS	PHASE	Hz	HP	POWER	(MECH/ELEC)	METHOD	RATING	(LBS)	MANUFACTURER	MODEL	REMARKS
EF-1 \	WAREHOUSE	DOWNBLAST	500	0.75	1725	120	1	60	1/3	NO	ELEC	Α	11	41	LOREN COOK	101 ACED	ALL



3

SCHEDULE KEY: PLUMB = DIVISION 22 MECH = DIVISION 23 ELEC = DIVISION 26 MNFR = MANUFACTURER



										
SY	SYMBOL LEGEND - MISC									
REFERENCE LINES AND SYMBOLS										
SYMBOL	DESCRIPTION									
-	VIEW OR DETAIL INDICATOR: # INDICATES DETAIL NUMBER, SHEET INDICATES DRAWING SHEET WHERE VIEW OR DETAIL IS SHOWN.									
	ELEVATION OR SECTION INDICATOR: # INDICATES VIEW NUMBER, SHEET INDICATES DRAWING SHEET WHERE VIEW IS SHOWN.									
NAME [###]	ROOM / SPACE INDICATOR									
(#)	KEYNOTE INDICATOR									
<u> </u>	REVISION INDICATOR									
(XX-##)	PLUMBING FIXTURE INDICATOR									
XX-##	EQUIPMENT INDICATOR									
TAG CFM	REGISTER, GRILLE, OR DIFFUSER INDICATOR									
- ≁- OR ∽	BREAKLINE									
MATCH LINE SEE XX/XXX	MATCHLINE INDICATOR									
	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE									
•	NEW CONNECTION TO EXISTING									
	POINT OF DEMOLITION									

SYMBOL LEGEND - PIPING

NOTE: ALL ABBREVIATION	S MAY NOT BE USED.
SYMBOL	DESCRIPTION
T	HOSE BIBB / WALL HYDRANT
-	CLEANOUT TO GRADE
\leftrightarrow	FLOOR CLEANOUT
14	WALL CLEANOUT
۵	FLOOR DRAIN
	FLOOR SINK

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PIPING LEGEND NOTE: ALL ABBREVIATIONS MAY NOT BE USED.			
ABBREVIATION	DESCRIPTION		
	160°F HOT WATER		
—160R	160°F HOT WATER RETURN / CIRCULATION		
	180°F HOT WATER		
—180R	180°F HOT WATER RETURN / CIRCULATION		
AW	ACID WASTE		
AV	ACID VENT		
C02	CARBON DIOXIDE		
-CWV·	COMBINATION WASTE AND VENT		
CA	COMPRESSED AIR		
CD	CONDENSATE DRAIN		
DCW	DOMESTIC COLD WATER		
DHW	DOMESTIC HOT WATER		
—DHWR	DOMESTIC HOT WATER RECIRCULATION		
DI	DEIONIZED WATER		
DSW	DOMESTIC SOFT WATER		
	DEMOLISHED PIPING		
FP	FIRE PROTECTION		
FOR	FUEL OIL RETURN		
FOS	FUEL OIL SUPPLY		
——FOV——	FUEL OIL VENT		
—— –GW- ——	GREASE WASTE		
HPC	HIGH PRESSURE CONDENSATE		
MPC	MEDIUM PRESSURE CONDENSATE		
LPC	LOW PRESSURE CONDENSATE		
	INDUSTRIAL COLD WATER		
——————————————————————————————————————	INDUSTRIAL HOT WATER		
IW	IRRIGATION WATER		
LPG	LIQUID PROPANE GAS		
MA	MEDICAL AIR		
NG	NATURAL GAS		
NO	NITROUS OXIDE		
0	OXYGEN		
OD	OVERFLOW ROOF DRAIN / STORM DRAIN		
PC	PUMPED CONDENSATE		
RD	ROOF DRAIN / STORM DRAIN		
	SANITARY SEWER		
VAC	VACUUM		
	VENT		

SYMBOL LEG	END - PIPING
NOTE: ALL ABBREVIATION	S MAY NOT BE USED.
SYMBOL	DESCRIPTION
\bowtie	SHUT OFF VALVE
Ň	GATE VALVE
	CHECK VALVE
	AUTOMATIC 2-WAY VALVE
	AUTOMATIC 3-WAY VALVE
	GLOBE VALVE
Φ	BALL VALVE
×.	RELIEF VALVE
X	PRESSURE REDUCING VALVE
Ĩ	BUTTERFLY VALVE
S	SOLENOID VALVE
	ANGLE VALVE
ĬĘ	VENTURI VALVE
$\overline{\otimes}$	BALANCING OR PLUG COCK
\boxtimes	FLOW SETTER
\otimes	EXPANSION VALVE
$\overline{\nabla}$	GAS COCK
Хмач	MANUAL AIR VENT
F₹	STRAINER
01	GAUGE COCK
	FLEXIBLE CONNECTION
9	PRESSURE GAUGE
	THERMOMETER
->	PIPE REDUCER
\odot	REFRIGERANT SITE GLASS
	REFRIGERANT STRAINER
	REFRIGERANT FILTER DRIER
0	90 DEGREE ELBOW UP
Э	90 DEGREE ELBOW DOWN
O	90 DEGREE TEE UP
	90 DEGREE TEE DOWN
	PIPE UNION
	PIPE CAP
——————————————————————————————————————	PIPE ANCHOR
	FLOAT AND THERMOSTATIC TRAP

LETE D BY N R

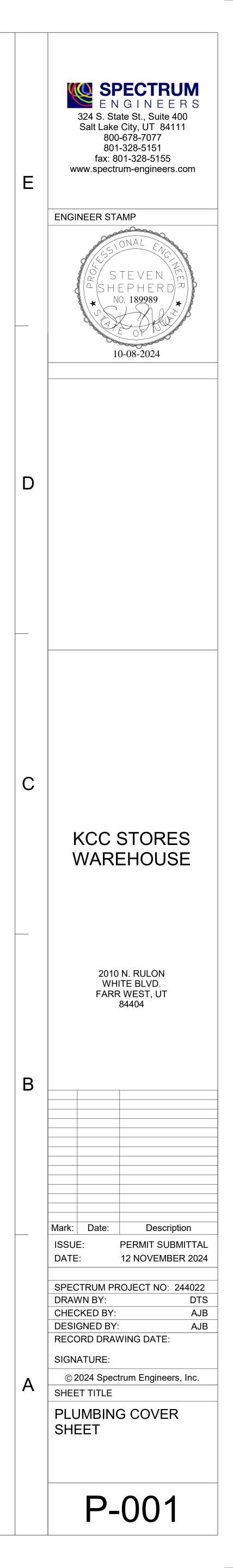
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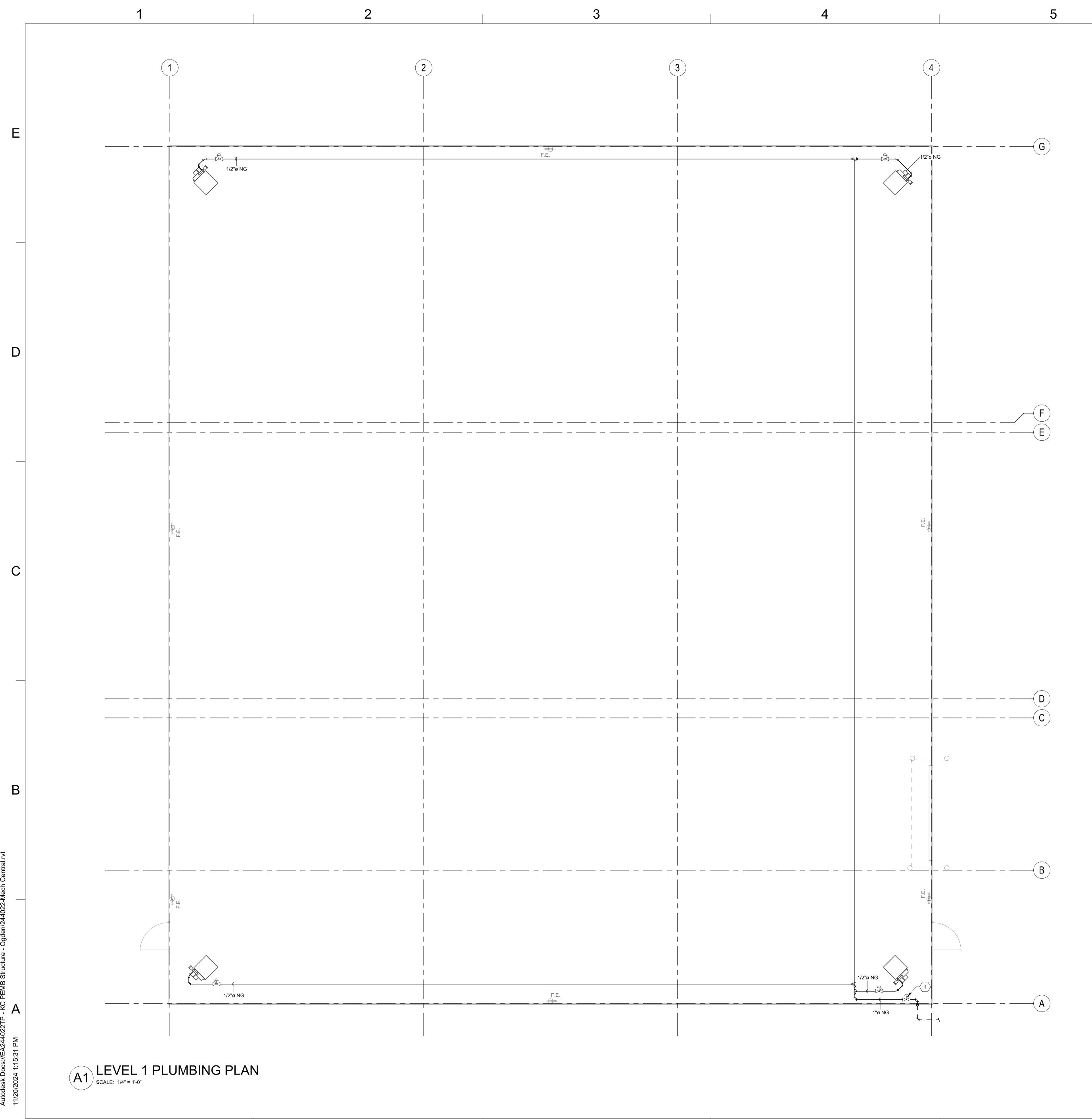
ABBREVIATIONS

	ABBREVIATIONS
	NOTE: ALL ABBREVIATIONS MAY NOT BE USED.
(E)	EXISTING
(F)	FUTURE
AC	AIR CONDITION(-ING,-ED)
APD BD	AIR PRESSURE DROP BALANCING DAMPER
BHP	BRAKE HORSE POWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU/HOUR
CFH CFM	CUBIC FEET PER HOUR CUBIC FEET PER MINUTE
CV	CONTROL VALVE
DB	DRY BULB TEMPERATURE
DCW	DOMESTIC COLD WATER
DHW DHWR	DOMESTIC HOT WATER DOMESTIC HOT WATER RECIRC
DP	DEPTH, DEEP, OR DROP IN PRESSURE
EA	EXHAUST AIR
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GE GPH	GREASE EXHAUST GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	HEAD
HG HP	MERCURY HORSEPOWER
HR	HOUR
HTG	HEATING
HZ	
IN KW	INCH KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LH LRA	LATENT HEAT LOCKED ROTOR AMPS
LVG	LEAVING
LWT	LEAVING WATER TEMPERATURE
MBH	
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NO NPSH	NORMALLY OPEN NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OD	
OZ PD	OUNCE PRESSURE DROP OR DIFFERENCE
PG	PROPOLENE GLYCOL
PH	PHASE
PPM PSF	PARTS PER MILLION POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSIA	PSIABSOLUTE
PSIG RA	PSI GAUGE RETURN AIR
RECIRC	RETURN AIR RECIRCULATE (-ER, -ED, -ING)
REFR	REFRIGERATION
REQD	
RLA RPM	RATED LOAD AMPS REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SCFM	STANDARD CUBIC FEET PER MINUTE
SCW SH	SOFT COLD WATER SENSIBLE HEAT
	STATIC PRESSURE
SPEC(S)	SPECIFICATION(S)
SQ	SQUARE
SS STD	SANITARY SEWER, SOIL, WASTE STANDARD
TA	TRANSFER AIR
TD	TEMP. DROP OR DIFF.
TEMP TOT	TEMPERATURE TOTAL
TSTAT	THERMOSTAT
ТҮР	TYPICAL
VAC VAV	VACUUM VARIABLE AIR VOLUME
	VELOCITY
VENT	VENT, VENTILATION
VFD VOL	VARIABLE FREQUENCY DRIVE VOLUME
VTR	VENT THROUGH ROOF
WB	
WC WG	WATER COLUMN WATER GAUGE
WPD	WATER GAUGE WATER PRESSURE DROP
WTR	WATER

	PLUMBING GENERAL NOTES
1.	THE PLUMBING DRAWINGS SHOW THE GENERAL DESIGN, ARRANGEMENT AND EXTENT OF THE PLUMBING SYSTEM. BECAUSE OF THE SMALL SCALE
	OF THE DRAWINGS, THESE DRAWINGS DO NOT SHOW ALL OFFSETS, BENDS
	OR ELBOWS NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. CONTRACTOR SHALL MAKE SUCH SLIGHT ALTERATIONS AS
	MAY BE NECESSARY TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL
	IN ACCORDANCE WITH THE DESIGN INTENT. MAJOR DEVIATIONS SUCH AS CHANGES IN COMPONENT SIZES, WEIGHTS, QUANTITIES OR MATERIAL
	REQUIRE PRIOR APPROVAL BY THE DESIGN ENGINEER.
2.	THE DRAWINGS AND SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND SHALL BE INTERPRETED AS AN INTEGRAL
	UNIT WITH THE ITEMS SHOWN ON ONE AND NOT THE OTHER BEING
3.	FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN BOTH. THE ENTIRE PLUMBING INSTALLATION SHALL CONFORM TO THE
0.	REQUIREMENTS OF THE MOST RECENTLY ADOPTED BUILDING CODES,
	MECHANICAL CODE, PLUMBING CODE, ELECTRICAL CODE, AND ALL OTHER APPLICABLE CITY, COUNTY, STATE, AND FEDERAL CODES AND
	REGULATIONS IN EFFECT.
4.	THE ENTIRE PLUMBING INSTALLATION SHALL CONFORM TO ANY CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE BUILDING OWNER.
5.	PRIOR TO FABRICATION AND INSTALLATION OF ANY PLUMBING COMPONENT
	THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL
	PLUMBING WORK WITH ALL OTHER BUILDING TRADES, INCLUDING BUILDING TRADES HIRED DIRECTLY BY THE OWNER. WHERE CONFLICTS MAY OCCUR,
0	THEY SHALL BE RESOLVED PRIOR TO INSTALLATION.
6.	ALL PLUMBING INFORMATION IS NOT SHOWN ON THE PLUMBING DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL
_	INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS.
7.	THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW AND USE, WHERE APPROPRIATE, ALL THE PLUMBING DETAILS SHOWN ON THE DRAWINGS.
	DETAILS MAY OR MAY NOT BE CALLED OUT ON THE DRAWINGS WITH SYMBOLS OR KEYED NOTES. ANY CHANGES RESULTING FROM FAILURE TO
	INSTALL THE PLUMBING SYSTEM WITHOUT USING THE INCLUDED DETAILS
0	SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
8.	ANY PART OF THE PLUMBING INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR
0	REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
9.	PROVIDE PROPER PROVISIONS FOR EXPANSION, CONTRACTION, OR MOVEMENT OF ALL PIPING.
10.	PROVIDE LARGE ENOUGH PIPE SLEEVES THROUGH WALL OR FLOOR TO
11	ALLOW FOR ANTICIPATED DIFFERENTIAL MOVEMENT. ALL PIPING SHALL BE SUPPORT WITH CLEVIS HANGERS (MSS TYPE 1).
	PERFORATED METAL STRAPS OR PLASTIC STRAPPING (PLUMBER TAPE)
12	SHALL NOT BE USED TO SUPPORT OR BRACE ANY PIPE. PROVIDE PIPE HANGERS WITHIN 18-INCHES OF ALL CHANGES OF
	DIRECTION.
13.	PROVIDE SWAY BRACING FOR ALL PIPING 4" AND LARGER AT ALL CHANGES IN DIRECTION GREATER THAN 45-DEGREES.
14.	ALL STEEL CLEVIS HANGERS USED TO SUPPORT COPPER PIPING SHALL BE
15	COPPER OR PLASTIC COATED. COPPER PIPING SHALL NOT COME IN CONTACT WITH FIRE TREATED
10.	LUMBER. PROVIDE 1/2" THICK SLIP-ON CLOSED CELL INSULATION WHERE
	COPPER PIPING IS ADJACENT TO FIRE TREATED LUMBER. CLOSED CELL INSULATION SHALL EXTEND A MINIMUM OF 1-1/2" PAST LUMBER.
16.	ALL EXPOSED PIPING SHALL BE INSTALLED IN A NEATLY ARRANGED
17	MANNER PARALLEL TO THE BUILDING STRUCTURE. ALL EXPOSED DOMESTIC WATER PIPE IN OCCUPIED SPACES SHALL BE
	POLISHED CHROME PLATED.
18.	ALL EXPOSED DRAINAGE PIPING IN OCCUPIED SPACES INCLUDING TRAPS UNDER SINKS SHALL BE POLISHED CHROME PLATED.
19.	DRAWINGS SHOW GENERAL ARRANGEMENT OF THE DRAIN WASTE AND
	VENT SYSTEM WITH THE REQUIRED CLEANOUTS. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL CLEANOUTS AS REQUIRED BY THE PLUMBING
	CODE.
20.	ALL SANITARY DRAINAGE SYSTEM PIPING 3" AND LARGER SHALL BE SLOPED IN DIRECTION OF FLOW AT A MINIMUM OF 1/8" PER FOOT.
21.	ALL SANITARY DRAINAGE SYSTEM PIPING SMALLER THAN 3" SHALL BE
າງ	SLOPED IN DIRECTION OF FLOW AT A MINIMUM OF 1/4" PER FOOT. SLOPE VENT SYSTEM TOWARDS DRAINAGE SYSTEM.
23.	SIMILAR EQUIPMENT SHALL BE OF THE SAME MANUFACTURER.
24.	ALL EQUIPMENT SHALL PROVIDE THE SCHEDULED PERFORMANCE AT THE JOB SITE ELEVATION.
25.	FIXTURE AND EQUIPMENT MODEL NUMBERS SHOWN IN PLUMBING FIXTURE
	SCHEDULE AND PLUMBING EQUIPMENT SCHEDULE ARE SHOWN TO ESTABLISH THE TYPE OF PRODUCT THAT SHALL BE USED. THE SELECTED
	PRODUCT SHALL MEET THE SCHEDULED PERFORMANCE DATA SHOWN ON
	THE SCHEDULE EVEN IF A DIFFERENT MODEL IS SUPPLIED THAT IS DIFFERENT THAN THAT SCHEDULED.
26.	ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE
	EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ALL NECESSARY FITTINGS, TRANSITIONS, VALVES AND OTHER DEVICES AND
	ACCESSORIES REQUIRED FOR A COMPLETE, WORKABLE INSTALLATION.
27.	SEE "PLUMBING FIXTURE SCHEDULE" FOR INDIVIDUAL TRAPS, WASTE, VENT, AND DOMESTIC WATER PIPING FOR INDIVIDUAL FIXTURES.
28.	ALL PLUMBING EQUIPMENT SHALL BE LISTED AND LABELED BY AN
29	APPROVED TESTING AGENCY. FIXTURES, EQUIPMENT AND PIPING INSTALLATION SHALL MEET NSF
20.	STANDARDS.
	PLUMBING SHEET INDEX
DAA	
P-00 [,] P-10 [,]	
P-50 [°]	

6





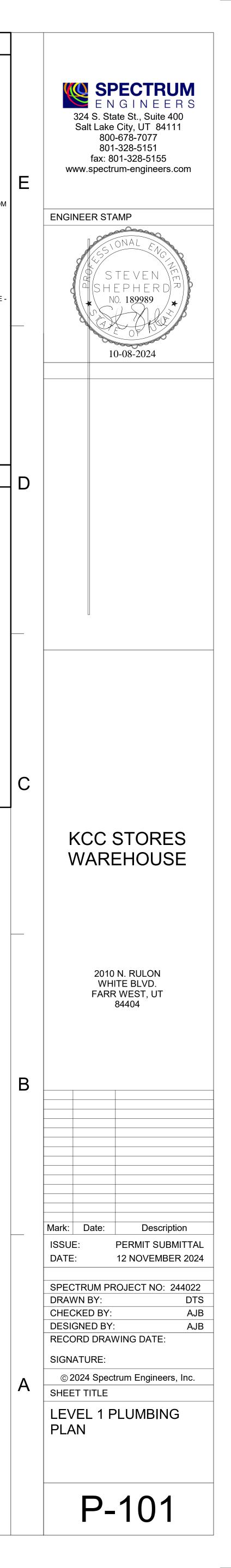
2

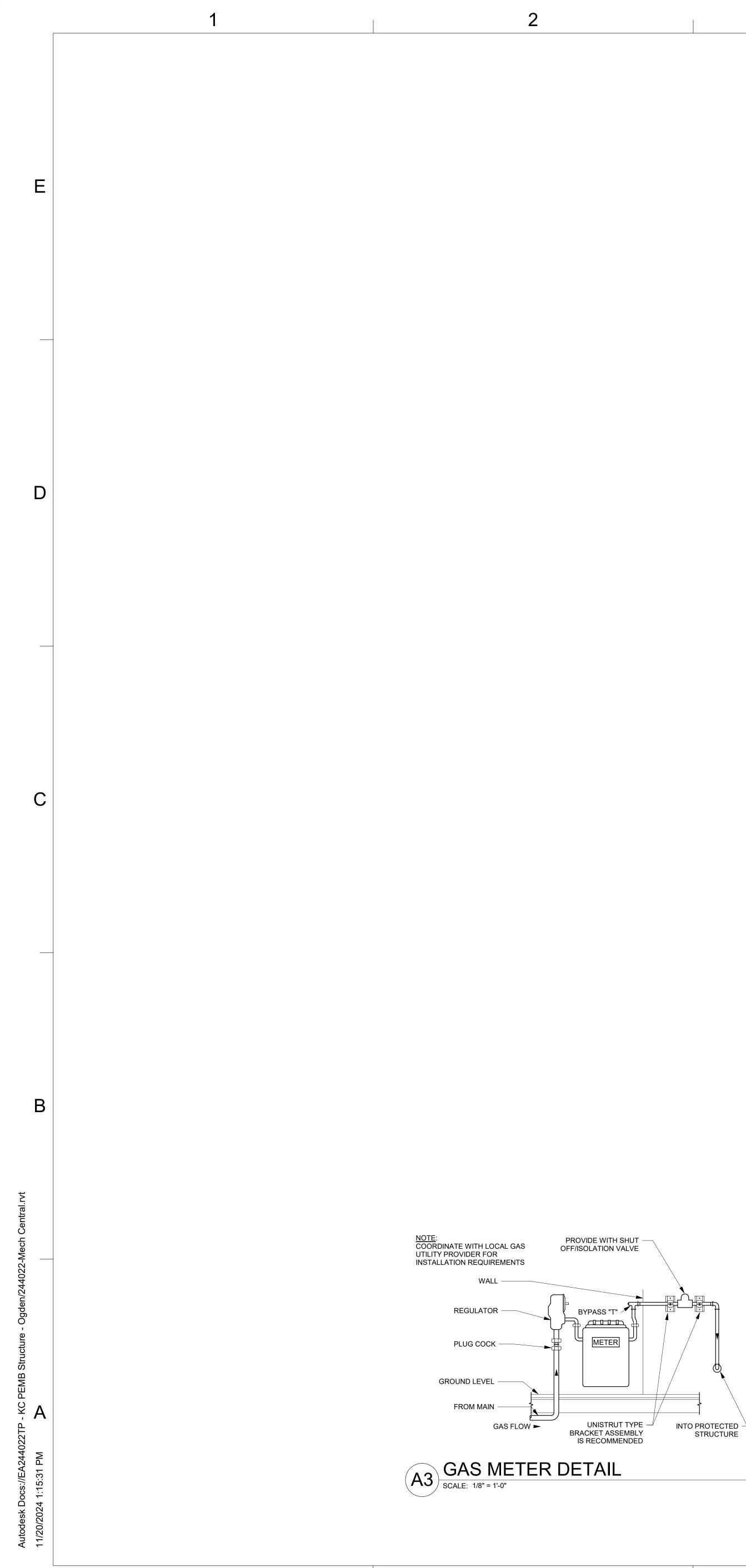
- PLUMBING GENERAL NOTES 1. THE CONTRACTOR SHALL CLOSELY COORDINATE MECHANICAL AND PLUMBING WITH ELECTRICAL, ARCHITECTURAL, AND BUILDING STRUCTURE.
- 2. DISSIMILAR METAL PIPING CONNECTIONS SHALL HAVE DIELECTRIC ISOLATORS.
- ALL NATURAL GAS PIPING 2-1/2" AND OVER OR 5 PSI OR GREATER TO BE WELDED.
- 4. PROVIDE A MARINE TOPSIDE GREY PAINT ON ALL NEW GAS PIPING.
- THE CONTRACTOR SHALL FIELD VERIFY EXISTING FIELD CONDITIONS PRIOR TO ORDERING OR FABRICATING. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS.
- 6. PIPING SHALL NOT BE SUPPORTED FROM THE ROOF DECK, JOIST BRIDGING OR OTHER PIPES. HANG PIPES FROM BEAMS, JOIST OR SUPPLEMENTARY STRUCTURAL MEMBERS. WHERE POSSIBLE INSTALL ALL PIPING WITHIN 12" FROM SUPPORTING STRUCTURE.
- WHERE JURISDICTION REQUIRES, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SEISMIC RESTRAINT. PROVIDE DESIGN DRAWINGS TO AUTHORITY HAVING JURISDICTION AND MECHANICAL ENGINEER FOR REVIEW.
 PLUMBING PIPING SCHEDULE:
- A. NATURAL GAS PIPING 2" AND SMALLER = SCHEDULE 40 BLACK STEEL PIPE -THREADED
- B. NATURAL GAS PIPING 2-1/2" AND LARGER = SCHEDULE 40 BLACK STEEL PIPE -WELDED
- C. NATURAL GAS PIPING BELOW GRADE = POLYETHYLENE PIPE FUSION WELDED

⊖ SHEET KEYNOTES

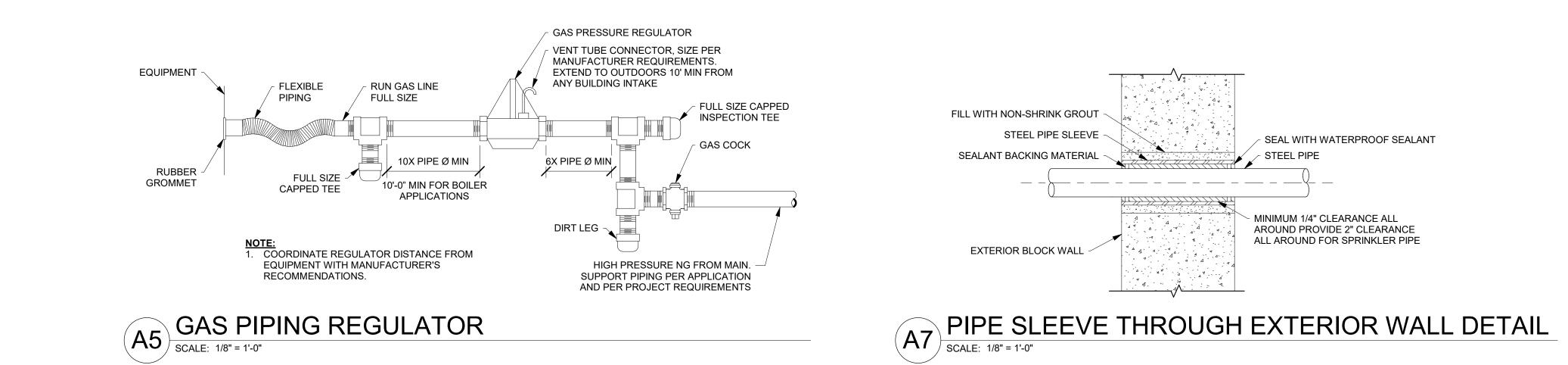
1 GAS LINE TO CIVIL. PROVIDE 2 PSI REGULATOR.





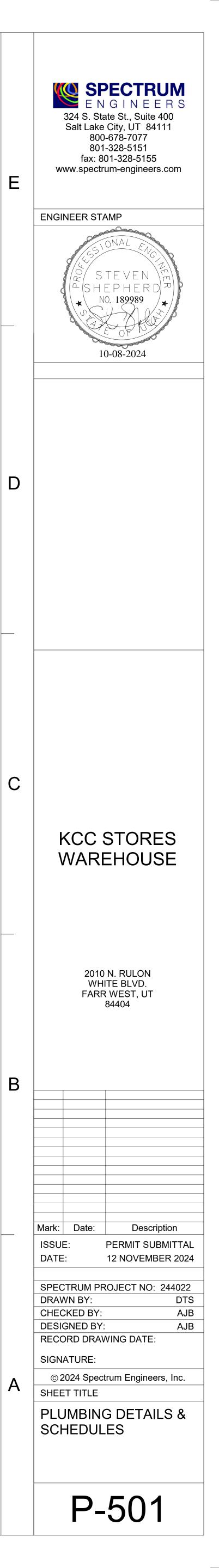








GA	S PRE	ESSURE	E RE	GULA	TOR	SCHEDULE
ACCEPTA	BLE MANUFA	CTURERS:		REMARKS:		
PIETRO FIORENTINI MAXITROL		 (1) 2.0 PSIG INLET PRESSURE, 850 BTU PER C.F. (2) 4 OZ (7" W.C.) OUTLET PRESSURE (3) DIE CAST ALIMINUM BODY, NITRILE DIAPHRAGM (4) NPT THREADED INLET & OUTLET (5) BALL CHECK AUTOMATIC VENT LIMITING DEVICE 				
SYMBOL	LOCATION	MANUFACTURER	MODEL NUMBER	REGULATOR SIZE (INCHES)	CAPACITY (CFH)	NOTES
			F30051	1/2	928	
	INDOOR /		F30052	3/4	1155	ALL
GPR OUTDOOR	PF REGULATOR	F30053	1	1501	ALL	
			F3013	1-1/4	7894	



FIRE ALARM							
	BELL	+94"	2.	© _H	HEAT DETECTOR	CEILING	
С	CHIME / STROBE	+94" / CEILING	2.	© _D	DUCT SMOKE DETECTOR		MTD. IN DUCT
F	FIRE ALARM MANUAL STATION	+46"	2.	D	FIRE/SMOKE DAMPER		
Η	FIRE ALARM SIGNAL HORN / STROBE	+94" / CEILING	2.		DOOR HOLDER	AS NOTED	
E	FIRE ALARM SPEAKER / STROBE	+94" / CEILING	2.	FS	FLOW SWITCH		
S	FIRE ALARM STROBE	+94" / CEILING	2.	TS	TAMPER SWITCH		
K	FIRE ALARM SPEAKER ONLY	+94" / CEILING	2.	WF	WATER FLOOD INDICATOR		
В	FIRE ALARM STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM)	+94" / CEILING	2.	$\widehat{\bigotimes}$	O.S. & Y. VALVE		SEE DIAGRAM
ANN	FIRE ALARM ANNUNCIATOR PANEL	+58"	2. SEE DIAGRAM	R	FIRE ALARM RELAY OR SECURITY RELAY		
Οv	ASPIRATING SMOKE DETECTION SYSTEM	CEILING	MOUNT AS PER MFR.	СМ	FIRE ALARM CONTROL MODULE		
Ю _в	BEAM DETECTOR		MOUNT AS PER MFR.	MM	FIRE ALARM MONITOR MODULE		
⊚ _s	SMOKE DETECTOR	CEILING		TWZ	TWO-WAY COMMUNICATION SYSTEM CONTROL PANEL	+46"	2.
 ⊙ _{sc}	SMOKE/CARBON MONOXIDE DETECTOR	CEILING		TW	TWO-WAY COMMUNICATION SYSTEM CALL STATION	+46"	2.
$\odot_{\rm c}$	CARBON MONOXIDE DETECTOR	CEILING		R	FIRE ALARM RELAY		
ECURIT	Ý						
[####]⊲	IP SURVEILLANCE CAMERA - SEE CAMERA SURVEILLANCE TYPE SCHEDULE	AS NOTED	9. 10. 12.	DH	MAGNETIC DOOR HOLD OPENER	AS NOTED	8. 12.
NVR	NETWORK VIDEO RECORDER / SERVER		12.	ES	ELECTRIFIED DOOR STRIKE	DOOR JAMB	8. 12.
	ACCESS CONTROL DOOR / WINDOW SWITCH / CONTACT	DOOR JAMB	12.	DP	INTRUSION DETECTION DOOR / WINDOW CONTACT	DOOR JAMB	12.
	SPECIALIZED SWITCH / CONTACT (GARAGE DOOR, ROOF ACCESS DOOR / HATCH)		12.	EL	ELECTRIFIED DOOR LOCK	DOOR JAMB	8. 12.
××××x	DR=DOOR RELEASE, LD=LOCKDOWN, PE=PUSH TO EXIT, DB=DURESS / PANIC:		12.	RX	ACCESS CONTROL REQUEST TO EXIT MOTION		8. 12.
\checkmark κ	T=TRANSMITTER, R=RECEIVER, H=HARDWIRED			EC	ELECTRIFIED EXIT RIM DEVICE (CRASH BAR)		8. 12.
	INTRUSION MOTION DETECTOR SOLID - WALL MOUNTED, DASHED = CEILING		12.	CR	ACCESS CONTROL CREDENTIAL CARD READER	+46"	1. 12.
GB> < GB>	GLASS BREAK DETECTOR: SOLID = WALL MOUNTED, DASHED = CEILING		12.	BR	ACCESS CONTROL BIOMETRIC READER	+46"	1. 12.
$AS \langle AS \rangle$	INTRUSION DETECTION ALARM SIREN AND/OR STROBE		12.	KS	KEY OVERRIDE SWITCH	+46"	1. 12.
PI	INTRUSION DETECTION POP-IT MODULE		12.	ICR	INTEGRATED LOCKSET WITH CREDENTIAL CARD READER		8. 12.
KP	INTRUSION DETECTION KEYPAD (ARM/DISARM)		12.	KCR	ACCESS CONTROL CREDENTIAL CARD READER WITH KEYPAD	+46"	1. 12.
INT	IP TWO-WAY AUDIO & VIDEO INTERCOM (ANSWERING BASE STATION & DOOR STATION)		12.	WS	SECURITY WORKSTATION		12.
ML	ELECTROMAGNETIC LOCK (MAG LOCK)		8. 12.	'ACS'	ACCESS CONTROL PANEL		12.
							12.
sc> < sc>	SMOKE & C/O DETECTOR COMBO: SOLID = WALL MOUNTED, DASHED = CEILING		12.	'IDS'	INTRUSION DETECTION PANEL		12.

	ABBREVIA		S INDEX
ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
#	NUMBER	MH	MANHOLE
AC	ALTERNATING CURRENT	MIC	MICROPHONE
A.F.F.	ABOVE FINISH FLOOR	MIN	MINIMUM
AIC	AMPS INTERRUPTING CAPACITY	MTG	MOUNTING
AM	AMPS METER	MTR	MOTOR
AMP	AMPERE	N/A	NOT APPLICABLE
ANN	ANNUNCIATOR	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AUX	AUXILIARY	NEMA	NATIONAL ELECT. MANUFAC. ASSOC.
AWG	AMERICAN WIRE GAUGE	NFPA	NATIONAL FIRE PROTECTION ASSOC.
BC	BARE COPPER	N.I.C.	NOT IN CONTRACT
BFG	BELOW FINISH GRADE	NO	NORMALLY OPENED
C	CONDUIT	NTS	NOT TO SCALE
CAB	CABINET	OS & Y	OUTSIDE SCREW & YOKE
		PB	
-			
		PF	
	CIRCUIT	PFR	PHASE FAILURE RELAY
CLG	CEILING	PNL	PANEL
CNTR	CONTRACTOR	PT	POTENTIAL TRANSFORMER
C.O.	CONDUIT ONLY	PVC	POLYVINYL CHLORIDE CONDUIT
CRT	COMPUTER TERMINAL	(R)	RELOCATE
СТ	CURRENT TRANSFORMER	RECEP	RECEPTACLE
CU	COPPER	REQ	REQUIREMENT
C/W	COMPLETE WITH	RLA	RATED LOAD AMPS
DB	DECIBEL	RMP	ROCKY MOUNTAIN POWER
DC	DIRECT CURRENT	RMS	ROOT MEAN SQUARE
DWG	DRAWING	SE	SERVICE ENTRANCE
(E)	EXISTING	SPEC	SPECIFICATIONS
EC	EMPTY CONDUIT	SPKR	SPEAKER
EG	EMERGENCY GENERATOR	SS	SELECTOR SWITCH
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
ΞX	EXPLOSION PROOF	SWBD	SWITCHBOARD
FACP	FIRE ALARM CONTROL PANEL	SWGR	SWITCHGEAR
=C	FOOT CANDLE	TTB	TELEPHONE TERMINAL BOARD
FT	FOOT	TTC	
GFI	GROUND FAULT INTERRUPTER	TV	TELEVISION
GND	GROUND	TYP	TYPICAL
		UG	
HP	HORSE POWER	UPS	
HZ		V	
FC		VA/R	VOLT-AMPS/REACTIVE
IG	ISOLATED GROUND	VM	VOLT METER
MC	INTERMEDIATE METALLIC CONDUIT	W	WATTS
N	INCH	W/	WITH
J-BOX	JUNCTION BOX	WH	WATTHOUR METER
<v< td=""><td>KILOVOLT</td><td>W/O</td><td>WITHOUT</td></v<>	KILOVOLT	W/O	WITHOUT
ΚVA	KILOVOLT AMPERES	WP	WEATHERPROOF
<var< td=""><td>KILOVARS</td><td>XFMR</td><td>TRANSFORMER</td></var<>	KILOVARS	XFMR	TRANSFORMER
<w< td=""><td>KILOWATT</td><td>XFMR SW</td><td>TRANSFER SWITCH</td></w<>	KILOWATT	XFMR SW	TRANSFER SWITCH
_RA	LOCKED ROTOR AMPS	XP	EXPLOSION PROOF
LTG	LIGHTING	1P	SINGLE-PHASE
MNF	MANUFACTURER	2P	TWO-POLE
MAX	MAXIMUM	3P	THREE-POLE
MB	MAIN BUS	4P	FOUR-POLE
MCC	MOTOR CONTROL CENTER	Ø	PHASE

GENERAL NOTES

CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.

CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC) OF ALL EQUIPMENT FURNISHED UNDER ALL DIVISIONS, INCLUDING ALL EXISTING EQUIPMENT TO BE RE-USED. REVIEW ALL SHOP DRAWINGS AND EXISTING EQUIPMENT BEFORE BEGINNING ROUGH-IN.

SEE SECTION 265100 (16510) OF THE SPECIFICATION FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEÌLING CONTRACTORS.

SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.

6. SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.

FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.

THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.

ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR. 10. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.

1. CONTRACTOR SHALL VERIFY FURNITURE LAYOUT PRIOR TO ANY FLOORBOX OR POKE-THRU INSTALLATION. COORDINATE EXACT LOCATION OF FLOOR BOX OR POKE-THRU WITH OWNER AND FURNITURE PROVIDER PRIOR TO ROUGH-IN.

12. CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

20 AMP MINIMUM B	RANCH CIRCUIT CONDUCTOR SIZING

MAXIMUM LENGTH	BRANCH CIRCUIT VOLTAGE		
CONDUCTOR LENGTH (FT)	120 VOLT	277 VOLT	
<70	MIN. #12 AWG	MIN. #12 AWG	
70 - 115	MIN. #10 AWG	MIN. #12 AWG	
115 - 170	MIN. #8 AWG	MIN. #10 AWG	
170 - 270	MIN. #6 AWG	MIN. #8 AWG	
271 - 380	NOTE B	MIN. #8 AWG	
>380	NOTE B	NOTE B	

A. THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.

B. PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD.

C. CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY, CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT NO ADDITIONAL COST TO OWNER.

SHEET INDEX

ELECTRICAL SYMBOLS AND NOTES SCHEDULES

ELECTRICAL SPECIFICATIONS

ELECTRICAL SITE PLAN

LIGHTING PLAN

E-301

E-401

POWER PLAN ONE-LINE DIAGRAM AND PANELBOARD SCHEDULES

ELECTRICAL DIAGRAMS

NOTES:

1. SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE. 2. HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISHED FLOOR. 3. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.

4. SUBSCRIPT INDICATES FIXTURES TO BE CONTROLLED. 5. NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V.

- 6. HEIGHT MEASURED TO TOP OF THE BOX FROM FINISHED FLOOR.
- 7. PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED. 8. DOUBLE ARROWS INDICATES A DOUBLE FACE UNIT.
- 9. DEVICES NOTED WITH AN 'A' INDICATE TO COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
- 10. SUBSCRIPT INDICATES NEMA CONFIGURATION.

11. SOLID BOX AROUND DEVICE INDICATES INSTALLED IN FLOOR. DASHED BOX AROUND DEVICE INDICATES INSTALLED IN CEILING.

ENERAL		MOUNTING				MOUNTING	
SYMBOL	DESCRIPTION	HEIGHT	NOTES	SYMBOL	DESCRIPTION	HEIGHT	NOTES
	ONE CIRCUIT, HOME RUN TO PANEL				EQUIPMENT PANEL, SEE DRAWINGS	+72"	6.
	2 CIRCUIT, HOME RUN TO PANEL				CABLE TRAY	AS NOTED	
	3 CIRCUIT, HOME RUN TO PANEL			, 	GROUND BUS BAR	+18"	6.
	CONDUIT RUN CONCEALED IN WALL OR CEILING			(X)	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND				EQUIPMENT NUMBER		
O	CONDUIT UP			X	ARCHITECTURAL ROOM NUMBER		
•	CONDUIT DOWN				DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE		
	CONDUIT STUB LOCATION	CAP CONDUIT		X	DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE / LEGEND		
S	CONDUIT / CIRCUIT CONTINUATION						
	STEM SYMBOLS						
		ABOVE					
	RECEPTACLE SWITCH PACK	CEILING +18" OR		J F	JUNCTION BOX ('F' IN FLOOR)	AS NOTED TO SUIT	
\Rightarrow	DUPLEX RECEPTACLE SWITCH CONTROLLED	AS NOTED	2. 9.		MOTOR OUTLET	EQUIP.	2.
\rightarrow	SIMPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.	•	PUSHBUTTON	+46"	2.
=	DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9. 11.		NON-FUSED DISCONNECT SWITCH	+60"	5. 6.
⇒ _A	DUPLEX RECEPTACLE		9.		FUSED DISCONNECT SWITCH	+60"	5. 6.
	5mA GFCI CIRCUIT BREAKER PROTECTED		13.	В		+60"	
G	RECEPTACLE	+24" OR			BREAKER DISCONNECT SWITCH		5. 6.
₩P	WEATHERPROOF RECEPTACLE	AS NOTED	2.9.	D		+46"	2. 4.
\Rightarrow	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.	\$ ^T	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+46"	2.
-•	DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+18" OR AS NOTED	2. 9. 11.		MAGNETIC STARTER	+60"	6. 7.
-	FOURPLEX RECEPTACLE	+18" OR	2. 9. 11.		MAGNETIC STARTER / DISCONNECT COMBINATION	+60"	6. 7.
$\underline{+}$	GROUND FAULT INTERRUPTER FOURPLEX RECEPT	AS NOTED +18" OR	2. 9.	VFD	VARIABLE FREQUENCY DRIVE	+66"	6.
Н		AS NOTED	2. 5.			.00	0.
\bigcirc	CEILING LIGHT FIXTURE	CEILING	1.	PP	POWER PACK	ABOVE CEILING	SEE DIAGRAM SPEC.
Ю	WALL LIGHT FIXTURE	AS NOTED	1.	RCX	DIGITAL ROOM CONTROLLER (SUBSCRIPT INDICATES NUMBER OF RELAYS)	ABOVE CEILING	SEE DIAGRAM SPEC.
\bigcirc	RECESSED DOWNLIGHT FIXTURE	CEILING	1.	EP	EMERGENCY LIGHTING CONTROL UNIT	ABOVE	SEE DIAGRAM
\square	RECESSED WALL-WASH DOWNLIGHT FIXTURE	CEILING	1.	\$ ³	THREE-WAY SWITCH	CEILING +46"	SPEC. 2. 4.
		AS NOTED	1.	\$ ⁴	FOUR-WAY SWITCH	+46"	2. 4.
	EGRESS LIGHT FIXTURE	AS NOTED	1.	\$ ^ĸ	KEY OPERATED SWITCH	+46"	2. 4.
	AREA LIGHT POLE AND FIXTURE POST TOP LIGHT POLE AND FIXTURE	CONCRETE BASE	1. 14. SEE DIAGRAM	\$ [₽]	SWITCH WITH PILOT LIGHT	+46"	2.4.
	BOLLARD	CONCRETE	1. 14. SEE DIAGRAM	\$ ^D	VARIABLE INTENSITY SWITCH	+46"	2.4.
	STEP LIGHT FIXTURE	BASE AS NOTED	1	 \$™	TIMER SWITCH	+46"	2.4.
		CONCRETE					
0	IN-GRADE LIGHT FIXTURE	BASE	1.	\$	MOMENTARY CONTACT SWITCH LOW VOLTAGE WALLSTATION (SUBSCRIPT INDICATES	+46"	2. 4.
\bigcirc	FLOOD OR TRACK FIXTURE	AS NOTED	1.	X	CONFIGURATION & CONTROL SEQUENCE)	+46"	2. SEE DIAGRAM, SPE
$\rightarrow + \otimes$	CEILING / WALL MOUNTED EXIT LIGHT	CEILING/ AS NOTED	1. 3. 8.		DUAL TECH. CEILING MOUNTED OCCUPANCY SENSOR (PROVIDE WITH ALL PP AND ROOM CONTROLLERS)	CEILING	SEE DIAGRAM, SPEC.
	EMERGENCY LIGHT FIXTURE	AS NOTED	1.	H	DUAL TECH. WALL MOUNTED OCCUPANCY SENSOR (SUBSCIPT D = DIMMING AND DAYLIGHT CONTROL)	+46"	2. 4. SEE DIAGRAM, SPE
\sim	COMBO EXIT / EMERGENCY LIGHT FIXTURE	AS NOTED	1.	P	PHOTO-ELECTRIC CONTROL	AS NOTED	MOUNT AS
					(LOCATE ON ROOF, FACE NORTH)		PER MFR. SEE DIAGRAM,
TC	TIME CLOCK	+60"	2.		DIGITAL DAYLIGHT SENSOR	CEILING	SPEC.
WER				-			
⇒ _{IG}	ISOLATED GROUND RECEPTACLE	+18" OR AS NOTED	2. 9.	J	PLUGMOLD	+46" OR AS NOTED	2. SEE SPEC.
τ	TAMPER-PROOF RECEPTACLE	+18" OR AS NOTED	2. 9.	DP	FLAT PANEL DISPLAY WALL BOX TVSS RECEPT., DATA AND OTHER DEVICES, REFER TO DIAGRAMS	AS NOTED	SEE DIAGRAM SPEC. 26 2726
Ξ	DUPLEX RECEPTACLE WITH USB OUTLET	+18" OR AS	2. 9.	(CP)	CEILING PROJECTION SYSTEM CEILING BOX	ABOVE	SEE DIAGRAM
-		NOTED +18" OR AS				CEILING +90"	SPEC.
=©	CONTROLLED DUPLEX RECEPTACLE	NOTED +18" OR AS	2.9.				2. SEE DIAGRAM
	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	NOTED	2. 9. 11.	FB	FLOOR BOX - SEE SCHEDULE	FLOOR	SPEC.
=Ğ	CONTROLLED FOURPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.	PT	POKE THRU - SEE SCHEDULE	FLOOR	SEE DIAGRAM SPEC.
=	TVSS PROTECTED RECEPTACLE	+18" OR AS NOTED	2. 9.		PANELBOARD		
$\overline{\mathbf{\nabla}}$	SPECIAL PURPOSE OUTLET	+18" OR AS	2. 10. W/ CAP.		MAIN DISTRIBUTION PANEL	+	
\bullet	CORD DROP	NOTED	SEE DIAGRAM		TELEPHONE DEMARCATION BOARD		
				<u> </u>			
	CORD REEL		SEE DIAGRAM	ĊLG	EQUIPMENT CEILING RACK	CEILING	
=	TOMBSTONE RECEPTACLE				EQUIPMENT 4-POST RACK / CABINET	AS NOTED	18. SEE SPEC
	POWER POLE				EQUIPMENT 2-POST RACK	AS NOTED	18. SEE SPEC
EV	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER			M	UTILITY METER / CT CABINET	+72"	6.
	CATIONS						
	WALL PHONE	+60" OR		XX XX	WIRELESS ACCESS POINT, TWO CABLES	WALL /	44
×⊳w	"XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL	AS NOTED	2.	WAP WAP	SOLID = WALL, DASHED = CEILING	CEILING	11.
\gg	DATA OUTLET, ONE CABLE "XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL	+18" OR AS NOTED	2. 9. 11.		"XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL		
\mathbf{k}	DATA OUTLET, TWO CABLES "XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL	+18" OR AS NOTED	2. 9. 11.	SPL	SPLITTER	ABOVE CEILING	
	DATA OUTLET, THREE CABLES	+18" OR	2. 9. 11.	(VIA)	VIA	ABOVE	
	"XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL DATA OUTLET, "X" INDICATES QUANTITY	AS NOTED +18" OR				CEILING ABOVE	
× x	"XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL	AS NOTED	2. 9. 11.	BDA		CEILING	
	DATA OUTLET, SOLID = FLOOR, DASHED = CEILING "XX" INDICATES PURPOSE: SC = SECURITY, AV = AUDIOVISUAL		11.	ANTXX	ANTENNA PS = PUBLIC SAFETY, COM = CELLULAR/COMMERCIAL	CEILING	
	,	+18" OR	9. 11.			1	

SYMBOL LEGEND

- 12. COORDINATE WITH DOOR HARDWARE SUPPLIER. 13. FOR WATER COOLER LOCATION, SEE DIAGRAM R002. FOR ALL OTHER LOCATIONS,
- FOR WATER COOLER LOCATION, SEE DIAGRAM ROUZ. FOR ALL OTHER LOCAT MOUNT AT +16" TO BOTTOM OF BOX FROM FINISHED FLOOR, OR AS NOTED.
 ARROWS SHOWN ON DEVICE INDICATE AIMING DIRECTION.
- 15. CAMERA NUMBERS ARE SHOWN INSIDE THE CAMERA SYMBOL. CAMERA TYPES ARE INDICATED IN TAG.
- 16. MOUNT ON TRACK OF OVERHEAD DOOR, 6" FROM TOP OF DOOR, UNLESS OVERHEAD DOOR
- IS A ROLL UP DOOR, THEN MOUNT PER MANUFACTURER'S INSTRUCTIONS.
 17. INSTALL DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. 18. DASHED LINE INDICATES EQUIPMENT CLEARANCES. ARROW INDICATES FRONT OF RACK.
- 19. SPEAKER TO BE MOUNTED IN HORIZONTAL POSITION.
- 20. MOUNTING HEIGHT IS TO BOTTOM OF DISPLAY.
- *TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED ON THIS SET OF DRAWINGS.



BLVD

ON WHITE F. ', UT 84404

2010 N. RULC FARR WEST,

WAREHOUSE

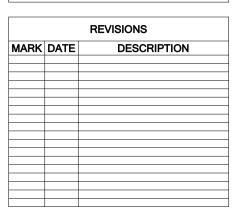
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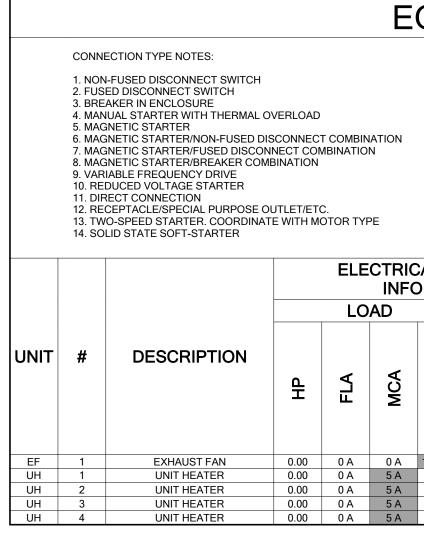


04 OCT 2024 DATE: PROJECT NO: EA24022TP DRAWN BY: CALVIN RICHARD CHK'D BY:

ELECTRICAL SYMBOLS AND NOTES

ACCESS CONTROL TYPE SCHEDULE		LIG	HT FIXTURE SCHEDU	LE					
LEGEND: CR = ACCESS CONTROL CREDENTIAL KCR = ACCESS CONTROL CREDENTIAL DC = ACCESS CONTROL DOOR / PE = PUSH TO EXIT BUTTON CARD READER CARD READER WITH KEYPAD WINDOW / CONTACT PE = PUSH TO EXIT BUTTON			LIGHT FIXTURE ABBREVIATION SCHEDULE			PROJECT	MANAGER: RICHA	RD WARDLE	
BR = ACCESS CONTROL BIOMETRIC READER ICR = INTEGRATED LOCKSET WITH CREDENTIAL CARD READER DP = INTRUSION DETECTION DOOR / RX = ACCESS CONTROL REQUEST TO WINDOW CONTACT EXIT MOTION	A.F.F. WALL@C CCBA	ABOVE FINISH FLOOR LG WALL MOUNT AT CORNER OF WALL AND CEILING CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT	SCBA STANDARD PAINTED CO CFBA CUSTOM FINISH AS SELE SFBA STANDARD FINISH AS SE	ECTED BY THE ARCI	HITECT	-			
DOOR DESCRIPTION CREDENTIAL DOOR CONTACT EXIT DEVICES TYPE CR BR KCR ICR DP PE RX			LIGHT FIXTURE GENERAL NOTES						
	1.	REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES A ELECTRICAL ENGINEER PRIOR TO BIDDING.		LL DISCREPANCIES	OF LOCATIONS ANI	D QUANTITIES TO	THE ATTENTION OF	THE ARCHITE	CT AND
	2.	REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT F	XTURES. BRING ALL DISCREPENCIES TO THE ATTENTION OF THE A	ARCHITECT PRIOR T	O BIDDING.				
	3.	REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, LED DRIVERS, AND LAMP	REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.						
	4.	CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS	SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AF	REAS TO THE ATTEN	ITION OF THE ARCH	IITECT AND ELECT	RICAL ENGINEER PI	RIOR TO RELE	EASE.
	5.	REFER TO LIGHTING PLANS FOR ALL LINEAR FIXTURE LENGTHS. THE CATALOG NUMBER IS BASI FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH.	ED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUAN	TITY OR OVERALL LI	ENGTH OF LINEAR F	FIXTURES REQUIR	ED. CONTRACTOR T	O NOTE THAT	VARIOUS
	6.	REFER TO LIGHTING PLANS FOR ALL UNDERCABINET FIXTURE LENGTHS. THE CATALOG NUMBE NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTHS.	R IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT TH IGTH OR TO FIT WITHIN THE MILLWORK. COORDINATE FIXTURE LAY	IE QUANTITY OR OV OUT WITH MILLWO	ERALL LENGTH OF	THE UNDERCABIN IS PRIOR TO LIGHT	ET FIXTURES REQU ING SUBMITTALS.	IIRED. CONTR	ACTOR TO
	7.	WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION	I. NOTIFY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER	٦.					
	8.	PRIOR APPROVALS ARE REQUIRED BEFORE BIDDING THE PROJECT AND SHALL BE SUBMITTED	TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WOR	KING DAYS BEFORE	THE BID. PRIOR AP	PROVALS RECEIVI	ED AFTER THIS TIME	E PERIOD SHA	ALL BE
		REJECTED.							
		REFER TO SPECIFICATIONS 20 0500, 26 5100 & 26 5600 (16001, 16510 & 16551).							
		VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM IE; ARCHITECT, ENGINEER & LIC	HTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWE	D OR APPROVED.					
CAMERA SURVEILLANCE SCHEDULE	ТҮРЕ	DESCRIPTION MFR.	CATALOG #	VOLTS	TOTAL WATTS	LAMP TYPE	DELIVERED	COLOR	CRI
CAMERA ID TYPE IDF RACK ID NOTES	A	DIE CAST HIGH BAY WITH 24,971 LUMENS WITH OCCUPANCY SENSOR AND DIMMING DRIVER	G ORHB-22-30L-IRH-MOT	120 V	169 VA	LED	0	4000 K	80
	OE	LED WALL PACK WITH PHOTOCELL ATLAS LIGHTIN	G WSPS-20LED-4R-PC-BK	120 V	18 VA	LED	2,125	4000 K	70
	X1	SINGLE FACE GREEN LED EXIT SIGN; WHITE THERMOPLASTIC; UNIVERSAL MOUNTING; FIELD SELECTABLE CHEVRONS; UNIVERSAL FACES	G EECPRWG	120 V	5 VA	LED			

ACCESS CONTROL TYPE SCHEDULE		GHT FIXTURE SCHEDUI	_E				
CREDENTIAL KCR = ACCESS CONTROL CREDENTIAL DC = ACCESS CONTROL DOOR / PE = PUSH TO EXIT BUTTON CARD READER WITH KEYPAD WINDOW / CONTACT		LIGHT FIXTURE ABBREVIATION SCHEDULE		PROJECT	MANAGER: RICHAI	RD WARDLE	
L BIOMETRIC ICR = INTEGRATED LOCKSET WITH CREDENTIAL CARD READER DP = INTRUSION DETECTION DOOR / RX = ACCESS CONTROL REQUEST TO WINDOW CONTACT RX = ACCESS CONTROL REQUEST TO EXIT MOTION	A.F.F. ABOVE FINISH FLOOR WALL@CLG WALL MOUNT AT CORNER OF WALL AND CEILING CCBA CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT	CFBA CUSTOM FINISH AS SELE	LOR AS SELECTED BY THE ARCHITECT ECTED BY THE ARCHITECT ELECTED BY THE ARCHITECT	Г			
DOOR DESCRIPTION CREDENTIAL DOOR CONTACT EXIT DEVICES NOTES CR BR KCR ICR DC DP PE RX							
		LIGHT FIXTURE GENERAL NOTES					
	1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXT ELECTRICAL ENGINEER PRIOR TO BIDDING.	IRES AND, CONFIRM CEILING TYPES WITH LIGHT FIXTURE TRIMS. BRING A	LL DISCREPANCIES OF LOCATIONS AN	D QUANTITIES TO T	THE ATTENTION OF	THE ARCHITEC	CT AND
	2. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF	IGHT FIXTURES. BRING ALL DISCREPENCIES TO THE ATTENTION OF THE A	ARCHITECT PRIOR TO BIDDING.				
	3. REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, LED DRIVERS, ANI	LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.					
	4. CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH I	EPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AF	REAS TO THE ATTENTION OF THE ARCH	HITECT AND ELECT	RICAL ENGINEER PF	RIOR TO RELEA	ASE.
	5. REFER TO LIGHTING PLANS FOR ALL LINEAR FIXTURE LENGTHS. THE CATALOG NUMBER FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH.	IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANT	TITY OR OVERALL LENGTH OF LINEAR F	FIXTURES REQUIRE	ED. CONTRACTOR T	O NOTE THAT	VARIOUS
	6. REFER TO LIGHTING PLANS FOR ALL UNDERCABINET FIXTURE LENGTHS. THE CATALOG NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL F	JUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT TH UN LENGTH OR TO FIT WITHIN THE MILLWORK. COORDINATE FIXTURE LAY	IE QUANTITY OR OVERALL LENGTH OF OUT WITH MILLWORK SHOP DRAWING	THE UNDERCABINE S PRIOR TO LIGHTI	ET FIXTURES REQU ING SUBMITTALS.	IIRED. CONTRA	ACTOR TO
	7. WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESC	RIPTION, NOTIFY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER	۲.				
	8. PRIOR APPROVALS ARE REQUIRED BEFORE BIDDING THE PROJECT AND SHALL BE SUB	ITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORK	KING DAYS BEFORE THE BID. PRIOR AP	PROVALS RECEIVE	D AFTER THIS TIME	E PERIOD SHAL	LL BE
	REJECTED. 9. REFER TO SPECIFICATIONS 20 0500, 26 5100 & 26 5600 (16001, 16510 & 16551).						
	10. VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM IE; ARCHITECT, ENGINE	R & LIGHTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWEI	D OR APPROVED.				
CAMERA SURVEILLANCE SCHEDULE							
	TYPE DESCRIPTION M	R. CATALOG #	VOLTS TOTAL WATTS	LAMP TYPE	DELIVERED LUMENS	COLOR TEMP	CRI
CAMERA ID TYPE IDF RACK ID NOTES	A DIE CAST HIGH BAY WITH 24,971 LUMENS WITH OCCUPANCY SENSOR AND DIMMING DRIVER	IGHTING ORHB-22-30L-IRH-MOT	120 V 169 VA	LED	0	4000 K	80
	OE LED WALL PACK WITH PHOTOCELL ATLAS I	IGHTING WSPS-20LED-4R-PC-BK	120 V 18 VA	LED	2,125	4000 K	70
	X1 SINGLE FACE GREEN LED EXIT SIGN; WHITE THERMOPLASTIC; UNIVERSAL MOUNTING: FIELD SELECTABLE CHEVRONS: UNIVERSAL FACES ATLAS I	IGHTING EECPRWG	120 V 5 VA	LED			



EQUIPMENT SCHEDULE

RESPONSIBILITY LEGEND:

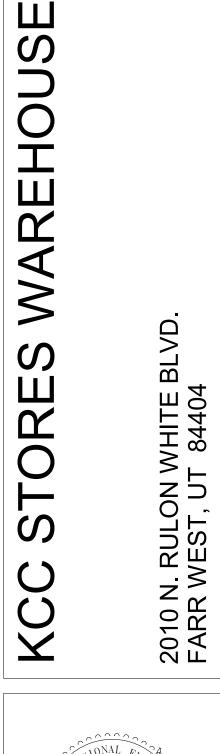
A. FURNISHED, INSTALLED AND CONNECTED UNDER DIVISION 26(16) B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION. REQUIRED CONNECTION UNDER DIVISION 26(16) C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26(16) D. FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER DIVISION

CB = CIRCUIT BREAKER

NOTE 1: PER 250.122(A), EQUIPMENT GROUND IS NOT REQUIRED TO BE LARGER THAN THE PHASE CONDUCTOR NOTE 2: OVERCURRENT PROTECTION DEVICE (OCPD) SHOWN IS LOCATED AT POWER PANEL. ALL FUSING TO BE SIZED IN ACCORDANCE WITH FUSE MFR RECOMMENDATION FOR MOTOR NAME PLATE RATING. NOTE 3: ALL EQUIPMENT TO BE RATED FOR THE ENVIRONMENT FOR WHICH IT IS INSTALLED.

AL EQ		ENT					WIRE		OC	PD	/FD ES)	
٨٨	VOLTAGE	PHASE	FULL LOAD AMPS	CONDUIT SIZE	SETS	ατγ	SIZE	EQ. GROUND	ТҮРЕ	AMPS	STARTER/ DISC/ V OTHER (SEE NOT	REMARKS
1961 VA	120 V	1	16.3 A	3/4"	1	2	10	10	CB	25 A	4 A	
0 VA	120 V	1	4.0 A	3/4"	1	2	12	12	СВ	15 A	4 A	
0 VA	120 V	1	4.0 A	3/4"	1	2	12	12	CB	15 A	4 A	
0 VA	120 V	1	4.0 A	3/4"	1	2	12	12	СВ	15 A	4 A	
0 VA	120 V	1	4.0 A	3/4"	1	2	12	12	СВ	15 A	4 A	







REVISIONS								
MARK	K DATE DESCRIPTION							
1	11.4.24	PLAN REVIEW						
2	11.20.24	REVISION 1						
DAT	┍.	04 OCT 2024						

EA24022TP PROJECT NO: DRAWN BY: CALVIN CHK'D BY: RICHARD

SCHEDULES

DESCRIPTION OF WORK: EXTENT OF ELECTRICAL WORK IS INDICATED ON DRAWINGS. PROVIDE ALL LABOR MATERIALS FOURMENT SUPERVISION AND SERVICE NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM. WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING ITEMS: ELECTRICAL CONNECTIONS FOR EQUIPMENT CONDUCTORS AND CABLES GROUNDING SUPPORTING DEVICES CONDUIT RACEWAYS ELECTRICAL BOXES AND FITTINGS ELECTRICAL SEISMIC CONTROL ELECTRICAL IDENTIFICATION PROTECTIVE DEVICE STUDY OCCUPANCY SENSORS TRANSFORMERS SWITCHGEAR AND SWITCHBOARDS PANELBOARDS WIRING DEVICES OVERCURRENT PROTECTIVE DEVICES MOTOR AND CIRCUIT DISCONNECTS SURGE PROTECTIVE DEVICES INTERIOR AND EXTERIOR BUILDING LIGHTING TELECOMMUNICATIONS RACEWAYS SECURITY SYSTEM RACEWAYS FIRE ALARMS AND DETECTION SYSTEMS INTERPRETATION OF DRAWINGS AND SPECIFICATIONS: BEFORE BIDDING, CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS, SPECIFICATIONS AND PROJECT SITE. VISIT THE SITE DURING THE BIDDING PERIOD TO DETERMINE EXISTING CONDITIONS AFFECTING ELECTRICAL AND OTHER WORK, ALL COSTS ARISING FROM SITE CONDITIONS AND/OR PREPARATION SHALL BE INCLUDED IN THE BASE BID. NO ADDITIONAL CHARGES WILL BE ALLOWED DUE TO INADEQUATE SITE INSPECTION QUALITY ASSURANCE: PERFORM WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC). COMPLY WITH REQUIREMENTS FOR STATE AND LOCAL ORDINANCES. OBTAIN ALL PERMITS. INSPECTIONS. ETC FOR AUTHORITY HAVING JURISDICTION (AHJ), EMPLOY ONLY QUALIFIED CRAFTSMEN WITH AT LEAST THREE (3) YEARS OF EXPERIENCE. WORKMANSHIP SHALL BE NEAT, HAVE A GOOD MECHANICAL APPEARANCE AND CONFORM TO BEST ELECTRICAL STATE CONTRACTING LICENSE. PROVIDE EQUIPMENT AND MATERIALS THAT ARE UNDERWRITERS LABORATORIES INC. (UL) LISTED AND I ABELED SUBMITTALS: AFTER THE CONTRACT IS AWARDED BUT PRIOR TO MANUFACTURE OR INSTALLATION OF ANY EQUIPMENT, PREPARE COMPLETE SHOP DRAWINGS. PROVIDE SUBMITTALS IN PORTABLE DOCUMENT FORMAT (PDF). DOCUMENTS MUST BE ELECTRONICALLY BOOKMARKED AND KEYWORD SEARCHABLE USING (HTTP://ADOBE.COM/ACROBAT) ADOBE ACROBAT OR BLUEBEAM REVU (HTTP://BLUEBEAM.COM) FOR EACH RELEVANT SECTION. (I.E. INCLUDE ELECTRONIC BOOKMARKS SEPARATION "LIGHT FIXTURES" FROM "PANELBOARDS".) 3. ELECTRONICALLY HIGHLIGHT ALL OPTIONS FOR LIGHT FIXTURES, ELECTRICAL EQUIPMENT, ETC. MANUAL HIGHLIGHTING AND SCANNING OF THE DOCUMENTS IS NOT ACCEPTABLE AND WILL NOT BE REVIEWED 4. PROVIDE ONLY COMPLETED CUTSHEETS FOR ALL FIXTURE AND EQUIPMENT TYPES. BLANK CUTSHEETS SUBMITTED WITH A SCHEDULE ARE NOT ACCEPTABLE AND WILL NOT BE REVIEWED. 5. A MAXIMUM OF ONE SUBMITTAL PER SPECIFICATION SECTION IS ALLOWED, IT IS NOT ACCEPTABLE TO PROVIDE PRODUCT BY PRODUCT SUBMITTAL. SINGLE PRODUCT SUBMITTALS GROUNDING WILL NOT BE REVIEWED. A. ELECTRICAL CONNECTIONS FOR EQUIPMENT B. CONDUCTORS AND CABLES GROUNDING SUPPORTING DEVICES CONDUIT RACEWAYS ELECTRICAL BOXES AND FITTINGS ELECTRICAL SEISMIC CONTROL H. ELECTRICAL IDENTIFICATION PROTECTIVE DEVICE STUDY . OCCUPANCY SENSORS C. TRANSFORMERS SWITCHGEAR AND SWITCHBOARDS M. PANELBOARDS N. WIRING DEVICES O. OVERCURRENT PROTECTIVE DEVICES MOTOR AND CIRCUIT DISCONNECTS Q. INTERIOR AND EXTERIOR BUILDING LIGHTING R. TELECOMMUNICATIONS SYSTEMS RACEWAYS SECURITY SYSTEM RACEWAYS FIRE ALARMS AND DETECTION SYSTEMS PRODUCTS: PRODUCTS ARE SPECIFIED BY MANUFACTURE NAME, DESCRIPTION AND/OR CATALOG NUMBER. PROVIDE PRODUCTS OF MANUFACTURERS SPECIFIED. SUBSTITUTIONS WILL BE CONSIDERED IF A DUPLICATE WRITTEN APPLICATION IS SUBMITTED. NO MATERIAL MAY BE SUBSTITUTED AFTER THE BID OPENING. PROVIDE BLOCK OUTS, SLEEVES, ETC. REQUIRED FOR INSTALLATION OF WORK SPECIFIED. RECORD DRAWINGS: MAINTAIN ON A DAILY BASIS, A COMPLETE SET OF RECORD DRAWINGS. ECTING AN ACCURATE DIMENSIONAL RECORD OF AL

DOCUMENTS.

FROM THE DATE OF SUBSTANTIAL COMPLETION.

INCLUDE ALL COSTS FOR OVERTIME WORK IN BID.

FOOTINGS AND OTHER STRUCTURAL MEMBERS.

CORD CAP, AND MULTI-CONDUCTOR CORD.

TITE CONNECTIONS. FOR MOVABLE AND/OR PORTABLE EQUIPMENT, PROVIDE WIRE DEVICE,

WEATHERTIGHT SEAL.

ELECTRICAL CONNECTIONS FOR EQUIPMENT

ELECTRICAL GENERAL PROVISIONS

ELECTRICAL SPECIFICATIONS

VERIFY EXACT LOAD AND LOCATION OF ALL EQUIPMENT BEFORE ROUGH-IN FOR EACH ELECTRICAL CONNECTION. PROVIDE COMPLETE ASSEMBLY OF MATERIAL, INCLUDING BUT NOT NECESSARII Y LIMITED TO RACEWAYS, CONDUCTORS, CORDS, CORD CAPS, PLUGS, WIRING DEVICES, PRESSURE CONNECTORS, TERMINALS (LUGS), ELECTRICAL INSULATION TAPE, HEAT SHRINKABLE INSULATION TUBING, CABLE TIES, SOLDERLESS WIRE NUTS, AND OTHER ITEMS AND ACCESSORIES AS NEEDED TO COMPLETE SPLICES, TERMINATIONS, AND CONNECTIONS AS REQUIRED. FOR PERMANENTLY INSTALLED FIXED EQUIPMENT, PROVIDE FLEXIBLE SEAL-TITE CONNECTIONS. FOR MOVABLE AND/OR PORTABLE EQUIPMENT, PROVIDE WIRE DEVICE, CORD CAP, AND MULTI-CONDUCTOR CORD.

CONDUCTORS AND CABLES PROVIDE FACTORY FABRICATED CONDUCTORS FOR SIZES, RATINGS, MATERIAL, AND TYPES

ELECTRICAL CONNECTIONS FOR EQUIPMENT

INDICATED FOR EACH SERVICE. PROVIDE COPPER CONDUCTORS, WITH THHN/THWN INSULATION. SIZE ALL CONDUCTORS IN ACCORDANCE WITH NEC: MINIMUM SIZE TO BE #12 AWG. PROVIDE STRANDED CONDUCTORS FOR #8 AWG AND LARGER. 2. THE FOLLOWING COLOR SCHEME SHALL BE USED:

- MARK RECORD DRAWINGS TO SHOW THE PRECISE LOCATION OF CONCEALED WORK AND EQUIPMENT, INCLUDING CONCEALED OR EMBEDDED CONDUIT AND JUNCTION BOXES AND ALL
- CHANGES AND DEVIATIONS IN THE WORK FROM THAT SHOWN ON THE CONTRACT 8. **OPERATION AND MAINTENANCE MANUALS:** PROVIDE OPERATION AND MAINTENANCE DATA BOOKS FOR ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THIS DIVISION.
- **GUARANTEE:** ENSURE THAT ELECTRICAL SYSTEMS INSTALLED UNDER THIS CONTRACT IS IN PROPER WORKING ORDER AND IN COMPLIANCE WITH DRAWINGS, SPECIFICATIONS, AND/OR AUTHORIZED CHANGES, WITHOUT ADDITIONAL CHARGE, REPLACE ANY WORK OR MATERIALS WHICH DEVELOP DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR, WITHIN ONE YEAR
- 10. FIRE PROTECTION SEALS: SEAL ALL PENETRATIONS FOR WORK OF THIS SECTION THROUGH OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING OR AFTER FIRE.
- 11. POWER OUTAGES: ALL POWER OUTAGES REQUIRED FOR EXECUTION OF THIS WORK SHALL OCCUR DURING NON-STANDARD WORKING HOURS AND AT THE CONVENIENCE OF THE OWNER. 12. EXCAVATING FOR ELECTRICAL WORK: LOCATE AND PROTECT EXISTING UTILITIES AND OTHER
- UNDERGROUND WORK. PERFORM EXCAVATION IN A MANNER WHICH PROTECTS WALLS, 13. CONCRETE BASES: PROVIDE 4" CONCRETE BASES FOR ELECTRICAL EQUIPMENT. 14. ROOF PENETRATIONS: PROVIDE ROOF JACK, SIZED TO FIT TIGHTLY TO RACEWAY FOR
- 1. VERIFY EXACT LOAD AND LOCATION OF ALL EQUIPMENT BEFORE ROUGH-IN FOR EACH ELECTRICAL CONNECTION. PROVIDE COMPLETE ASSEMBLY OF MATERIAL, INCLUDING BUT NOT NECESSARILY LIMITED TO, RACEWAYS, CONDUCTORS, CORDS, CORD CAPS, PLUGS, WIRING DEVICES, PRESSURE CONNECTORS, TERMINALS (LUGS), ELECTRICAL INSULATION TAPE, HEAT-SHRINKABLE INSULATION TUBING, CABLE TIES, SOLDERLESS WIRE NUTS, AND OTHER ITEMS AND ACCESSORIES AS NEEDED TO COMPLETE SPLICES, TERMINATIONS, AND CONNECTIONS AS REQUIRED. FOR PERMANENTLY INSTALLED FIXED EQUIPMENT, PROVIDE FLEXIBLE SEAL-

240/120 V SYSTEM 208/120 V SYSTEM 480/277 V SYSTEM CONDUCTOR PHASE A BLACK BROWN BLACK PHASE E REC ORANGE PHASE C YELLOW BLUE SHARED/SINGLE WHITE WHITE GRAY NEUTRAL NEUTRAL A WHITE W/ BLACK WHITE W/ BLACK **GRAY W/ BROWN** (DEDICATED) STRIPE STRIPE STRIP NEUTRAL B WHITE W/ RED WHITE W/ RED **GRAY W/ ORANGE** (DEDICATED) STRIPE STRIPE STRIPE **NEUTRAL C** WHITE W/ BLUE GRAY W/ YELLOW WHITE W/ BLUE (DEDICATED) STRIPE STRIPE STRIPE EQUIPMENT GROUND GREEN GREEN GREEN ISOLATED GROUND GREEN W/ YELLOW GREEN W/ YELLOW STRIPE GREEN W/ YELLOW STRIPE

MC CABLE: 3.

A. MC CABLE IS ACCEPTABLE FOR ALL BRANCH CIRCUITS INSTALLED IN GYPSUM WALLBOARD WALLS FROM THE HOME RUN DEVICE BOX TO THE LAST DEVICE BOX ON THE BRANCH CIRCUIT AND ALL BOXES IN BETWEEN, FROM THE HOME RUN DEVICE BOX TO THE BRANCH PANEL, THE CIRCUIT SHALL BE INSTALLED IN AN APPROVED RACEWAY. MC CABLE IS ACCEPTABLE FOR ALL LIGHT FIXTURE WHIPS NOT LONGER THAN SIX FEET IN LENGTH. LOCATED IN REMOVABLE GRID CEILINGS. MC CABLE IS UNACCEPTABLE TO BE INSTALLED FROM LIGHT FIXTURE TO LIGHT FIXTURE. ALL MC CABLE SHALL BE PROVIDED WITH ANTI SHORT FITTINGS

STRIPE

STRIPE

- B. THE USE OF MC-PCS CABLE IS ACCEPTABLE FOR LIGHT FIXTURE WHIPS UTILIZING 0-10V CONTROL SCHEMES, NOT LONGER THAN 72" IN LENGTH, LOCATED ABOVE REMOVABLE GRID CEILINGS. ALL MC CABLE SHALL BE PROVIDED WITH ANTI-SHORT FITTINGS. a. ACCEPTABLE MANUFACTURERS AFC - MC LUMINARY CABLE
 - ENCORE MC-LED LIGHTING CABLE SOUTHWIRE - MC-PCS DUO
- PROVIDE GROUNDING AND BONDING OF ALL ELECTRICAL AND COMMUNICATION APPARATUS, MACHINERY, APPLIANCES, BUILDING COMPONENTS, AND ITEMS REQUIRED BY THE NEC TO PROVIDE A PERMANENT, CONTINUOUS LOW IMPEDANCE, GROUNDING SYSTEM. PROVIDE AN NEC BONDING/GROUNDING CONDUCTOR IN ALL RACEWAYS USE FOR POWER DISTRIBUTION.
- SUPPORTING DEVICES PROVIDE SUPPORTS, ANCHORS, SLEEVES AND SEALS AS REQUIRED FOR A COMPLETE RACEWAY SUPPORT SYSTEM, INCLUDING BUT NOT LIMITED TO: CLEVIS HANGERS, RISER CLAMPS, C-CLAMPS, BEAM CLAMPS, ONE- AND TWO-HOLE CONDUIT STRAPS, OFFSET CONDUIT
- CLAMPS, EXPANSION ANCHORS, TOGGLE BOLTS, THREADED RODS, U-CHANNEL STRUT SYSTEM. AND ALL OTHER ASSOCIATED ACCESSORIES. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND WITH RECOGNIZED INDUSTRY PRACTICES TO ENSURE SUPPORTING DEVICES COMPLY WITH REQUIREMENTS. PROVIDE RIGID ATTACHMENT OF ALL FLOOR MOUNTED EQUIPMENT TO THE FLOOR SLAB OR STRUCTURAL SYSTEM.

CONDUIT RACEWAYS

- PROVIDE METAL CONDUIT, TUBING, AND FITTINGS OF TYPES, GRADES, SIZES, AND WEIGHTS (WALL THICKNESS) AS REQUIRED; WITH MINIMUM TRADE SIZE OF 3/4". INSTALL ELECTRICAL RACEWAY SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND APPLICABLE REQUIREMENTS OF NEC AND NECA "STANDARD OF INSTALLATION" IN ACCORDANCE WITH THE FOLLOWING:
- A. FEEDERS: INSTALL FEEDERS RATED 100 AMPS AND GREATER, IN ELECTRICAL METALLIC CONDUIT (EMT); WHERE BURIED BELOW GRADE, INSTALL IN CONCRETE ENCASED N0N-METALIC CONDUIT OR DUCT (SCHEDULE 40 PVC). BRANCH CIRCUITS, AND INDIVIDUAL EQUIPMENT CIRCUITS RATED LESS THAT 100 AMPS; INSTALL IN ELECTRICAL METALLIC TUBING (EMT). WHERE LOCATED IN POURED WALLS,
- BELOW CONCRETE SLAB-ON-GRADE, OR IN EARTH FILL, INSTALL IN NON-METALLIC PLASTIC DUCT (SCHEDULE 40 PVC). ENCASE NON-METALLIC PLASTIC DUCT 1-1/4" AN LARGER IN CONCRETE C. PROVIDE RIGID METAL CONDUIT (RMC) FOR ALL BENDS IN BURIED CONDUIT GREATER
- THAN 30 DEGREES. PROVIDE PROTECTIVE COATING FOR RIGID METAL CONDUIT BENDS. INSTALL FLEXIBLE CONDUIT FOR CONNECTIONS TO MOTORS TRANSFORMERS AND D. OTHER ELECTRICAL EQUIPMENT WHERE SUBJECT TO MOVEMENT AND VIBRATIONS. PROVIDE "OZ" EXPANSION FITTINGS ON ALL CONDUITS CROSSING BUILDING EXPANSION
- JOINTS, BOTH IN SLAB AND SUSPENDED. F. DUCT BANKS" PROVIDE DUCT BANK CONSTRUCTION AS INDICATED USING 3000 PSI CONCRETE WITH RED MARKER DYE. INSTALL #4 REINFORCING BAR IN EACH CORNER OF DUCT BANK. PROVIDE MINIMUM OF 4" CONCRETE COVER ON ALL SIDES OF EXTERIOR

CONDUITS. FIRE RATED FLOORS, WALLS, CEILINGS TO PREVENT THE SPREAD OF SMOKE, FIRE, TOXIC GAS, ELECTRICAL BOXES AND FITTINGS

CONSTRUCTION.

PROVIDE ONE PIECE GALVANIZED FLAT ROLLED SHEET STEEL INTERIOR OUTLET WIRING BOXES, CORROSION-RESISTANT CAST-METAL WEATHERPROOF OUTLET WIRING BOXES, CODE GAUGE SHEET STEEL JUNCTION AND PULL BOXES. GALVANIZED CAST IRON CONDUIT BODIES. COBROSION-RESISTANT PUNCH-STEEL BOX KNOCKOUT CLOSURES, CONDUIT LOCKOUTS AND MALLEABLE STEEL CONDUIT BUSHINGS AND OFFSET CONNECTORS, AND ALL ACCESSORIES AS REQUIRED TO SUIT EACH RESPECTIVE LOCATION AND INSTALLATION. FASTEN BOXES RIGIDLY TO SUBSTRATES OR STRUCTURAL SURFACES TO WHICH ATTACHED, OR SOLIDLY EMBED ELECTRICAL BOXES IN CONCRETE OR MASONRY. USE BAR HANGERS FOR STUD

ELECTRICAL SEISMIC CONTROL

- PROVIDE SEISMIC CONTROL EQUIPMENT INCLUDING BUT NOT LI ISOLATORS, FLEXIBLE CONNECTIONS, RIGID STEEL FRAMES, ANC ATTACHMENTS SEISMIC SNUBBER AND BRACING TO MEET THE RE PROJECT SITE AS DESIGNED BY A PROFESSIONAL ENGINEER LICE THE PROJECT IS LOCATED.
- THE ABOVE REFERENCED ENGINEER SHALL DETERMINE SPECIFIC EQUIPMENT ANCHORAGE AND RESTRAINTS, LOCATIONS AND SIZE DRAWINGS FOR THE ELECTRICAL EQUIPMENT WHICH HAVE BEEN
- THE DIVISION 26 CONTRACTOR SHALL REQUIRE ALL EQUIPMENT S EQUIPMENT THAT MEETS THE SEISMIC CODE, WITH BASES/SKIDS/ RECEIVE SEISMIC BRACING AND/OR ANCHORAGE. 4. SPRING ISOLATED EQUIPMENT: ALL VIBRATION ISOLATED EQUIPM
- ON RIGID STEEL FRAMES OR CONCRETE BASES. EACH SPRING MO MINIMUM OF FOUR ALL-DIRECTIONAL SEISMIC SNUBBERS THAT A LOCATED AS CLOSE TO THE VIBRATION ISOLATORS AS POSSIBLE BOTH TO THE BASE AND THE STRUCTURE.
- 5. NON-ISOLATED EQUIPMENT: THE DIVISION 26 CONTRACTOR SHAL THOROUGHLY REVIEWING ALL DRAWINGS AND SPECIFICATIONS T EQUIPMENT TO BE RESTRAINED. THIS CONTRACTOR SHALL BE RES THAT THIS EQUIPMENT IS MOUNTED AND BRACED. 6. CONDUIT: A RIGID CONDUIT SYSTEM SHALL NOT BE BRACED TO DI
- BUILDING OR TWO DISSIMILAR BUILDING SYSTEMS THAT MAY RESI DURING AN EARTHQUAKE. EXAMPLE: WALLS AND A ROOF; SOLID C METAL DECK WITH LIGHTWEIGHT CONCRETE FILL, UNBRACED CO EQUIPMENT SHALL BE PROVIDED WITH ADEQUATE FLEXIBILITY TO DIFFERENTIAL DISPLACEMENTS. PROVIDE LARGE ENOUGH PIPE SI FLOORS TO ALLOW FOR ANTICIPATED DIFFERENTIAL MOVEMENTS
- CABLE TRAY: CABLE TRAYS SHALL BE SUSPENDED FROM ROD HA ARE 12" IN LENGTH OR LONGER FROM POINT ROD ATTACHES TO TH CONNECTS LOCATED AS CLOSE TO THE VIBRATION ISOLATORS AS SUPPORTING STRUCTURE BOTH TO THE BASE AND TO THE VIBRA POSSIBLE TO FACILITATE ATTACHMENT AND THE STRUCTURE.
- NON-ISOLATED EQUIPMENT: THE DIVISION 26 CONTRACTOR SHAL THOROUGHLY REVIEWING ALL DRAWINGS AND SPECIFICATIONS TO EQUIPMENT TO BE RESTRAINED. THIS CONTRACTOR SHALL BE RE THAT THIS EQUIPMENT IS MOUNTED AND BRACED.

ELECTRICAL IDENTIFICATION 1. PROVIDE ELECTRICAL IDENTIFICATION PRODUCTS FOR BURIED EL

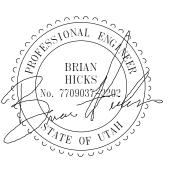
- HAZARD LABELS (ANSI Z535.4), SOURCE OF SUPPLY LABELS, AVAIL LABELS AND EMERGENCY OPERATING SIGNS TO EQUIPMENT INST PROJECT
- 2. COLOR ADHESIVE MARKING TAPE FOR RACEWAYS, WIRES AND CA TAPE NOT LESS THAN 3 MILLS THICK BY 1" TO 2" IN WIDTH. 3. UNDERGROUND LINE MARKING TAPE: PERMANENT, BRIGHT COLOF PLASTIC TAPE COMPOUNDED FOR DIRECT-BURIAL SERVICE NOT L
- MILLS THICK. 4. ENGRAVED, PLASTIC LAMINATED LABELS, SIGNS AND INSTRUCTIO STOCK PLASTIC LAMINATE, 1/16" MINIMUM THICKNESS FOR SIGNS LENGTH; 1/8" FOR LARGER SIZES. ENGRAVED LEGEND IN 1/4" HIGH FACE
- 5. PROVIDE LABELS ON COVER PLATES INDICATING SOURCE OF POW TO COMPLY WITH NEC 408.4. 6. PROVIDE CIRCUIT DIRECTORY THAT CLEARLY IDENTIFIES EACH AN

COMPLY WITH NEC 408. 7. CONDUIT IDENTIFICATION

- IDENTIFY RACEWAYS OF SYSTEMS WITH COLOR CODING. ACC **IDENTIFICATION ARE AS FOLLOWS:** A. COLORED ADHESIVE MARKING TAPE
- B. FIELD PAINTED FITTINGS IE: COUPLINGS AND CONNECTOF C. COLOR RACEWAYS FOR THE FOLLOWING SYSTEMS: FIRE ALARM SYSTEM: RED SOUND/IC: BLUE
- TELEPHONE: YELLOW DATA: GREEN
- SECURITY: ORANGE IDENTIFY JUNCTION, PULL AND CONNECTION BOXES A. PROVIDE COVERPLATES FOR SYSTEMS JUNCTION, PULL
- PAINTED TO MATCH REQUIREMENTS ABOVE. B. FOR POWER AND LIGHTING JUNCTION BOXES LABEL WITH CIRCUITS. \cdots
- OCCUPANCY SENSORS 1. PROVIDE OCCUPANCY SENSORS AS INDICATED ON THE DRAWING REQUIRED POWER PACKS FOR AN OPERATIONAL SYSTEM. PROVID WHICH HAVE BEEN UL LISTED AND LABELED. A. DUAL TECHNOLOGY WALL SWITCH: SENSOR SHALL INCORPO INFRARED TECHNOLOGIES IN A SINGLE UNIT. SENSOR SHALL ADJUSTMENT ALGORITHM WHICH ADJUSTS TIMER AND SENSI
 - MAXIMIZE PERFORMANCE AND MINIMIZE ENERGY USAGE. SEN GANG SWITCH BOX AND UTILIZE A DECORATOR COVER PLATE. DEGREE FIELD OF VIEW B. DUAL TECHNOLOGY WALL SWITCH WITH DIMMING: SENSOR SH ULTRASONIC AND INFRARED TECHNOLOGIES IN A SINGLE UNIT AUTOMATIC SELF-ADJUSTMENT ALGORITHM WHICH ADJUSTS SETTINGS TO MAXIMIZE PERFORMANCE AND MINIMIZE ENERG FIT IN A SINGLE GANG SWITCH BOX AND UTILIZE A DECORATO
 - SHALL HAVE A 170 DEGREE FIELD OF VIEW. SENSOR SHALL IN BUTTONS TIED TO 0-10 VOLT DIMMING LEADS. . DUAL TECHNOLOGY CEILING SENSOR: SENSOR SHALL INCORF INFRARED TECHNOLOGY IN A SINGLE UNIT. SENSOR SHALL HA ADJUSTMENT ALGORITHM WHICH ADJUSTS TIMER AND SENSIT MAXIMIZE PERFORMANCE AND MINIMIZE ENERGY USAGE. SEN

360 DEGREE FIELD OF VIEW.

LIMITED TO: VIBRATION CHORS, INSERTS AND REQUIREMENTS FOR THE CENSED IN THE STATE WHERE TIC REQUIREMENTS FOR ZES BASED ON SHOP N SUBMITTED. SUPPLIER FURNISHED S/CURBS DESIGNED TO PMENT SHALL BE MOUNTED MOUNTED BASE SHALL HAVE A ARE DOUBLE ACTING AND E TO FACILITATE ATTACHMENT ALL BE RESPONSIBLE FOR TO DETERMINE ALL RESPONSIBLE FOR CERTIFYING DISSIMILAR PARTS OF THE ESPOND IN A DIFFERENT MODE O CONCRETE WALL AND A ONDUIT ATTACHED TO IN-LINE TO ACCOMMODATE SLEEVES THROUGH WALLS OR TS.	 TRANSFORMERS PROVIDE FACTORY ASSEMBLED, GENERAL-PURPOSE, AIR-COOLED DRY-TYPE DISTRIBUTION TRANSFORMERS AS REQUIRED. PROVIDE WITH COPPER (ALUMINUM) WINDINGS WHERE PRIMARY WINDINGS HAS A MINIMUM OF 4 FULL CAPACITY TAPS AT 2.5 PERCENT, TWO ABOVE AND TWO BELOW FULL RATED VOLTAGE FOR DE-ENERGIZING TAP-CHANGING OPERATION. INSULATE WITH CLASS 150 DEGREES INSULATION AND RATE FOR CONTINUOUS OPERATION AT RATED KVA. LIMIT TRANSFORMER TEMPERATURE RISE TO 115 DEGREES C. SOUND LEVELS SHALL NOT EXCEED 45 DB. PROVIDE 4" HIGH CONCRETE PAD AND BOLT EQUIPMENT TO PAD. SWITCHGEAR AND SWITCHBOARDS PROVIDE FACTORY ASSEMBLED, DEAD FRONT, METAL ENCLOSED, GROUP MOUNTED, SECONDARY POWER SWITCHBOARDS, OF RATINGS AND CHARACTERISTICS INDICATED, CONSISTING OF PANEL (VERTICAL) UNITS, AND CONTAINING CIRCUIT BREAKER AND/OR FUSIBLE SWITCH ASSEMBLIES. TEST SWITCHGEAR AND SWITCHBOARD FOR ELECTRICAL CONTINUITY OF CIRCUITS, AND FOR SHORT CIRCUITS. PROVIDE GALVANIZED SHEET STEEL CABINET TYPE ENCLOSURES, IN SIZES AND NEMA TYPES AS INDICATED, CODE-GAUGE MINIMUM 16-GAUGE THICKNESS. PROVIDE DEAD FRONT SAFETY TYPE PANELBOARDS WITH DOOR-IN-DOOR HINGED FRONTS. EQUIP WITH COPPER (ALUMINUM) BUS BARS, FULL-SIZED NEUTRAL AND GROUND BUS. PROVIDE DEAD FRONT SAFETY TYPE PANELBOARDS WITH DOOR-IN-DOOR HINGED FRONTS. EQUIP WITH COPPER (ALUMINUM) BUS BARS, FULL-SIZED NEUTRAL AND GROUND BUS. PROVIDE DEALT FRONT SAFETY TYPE PANELBOARDS WITH DOOR-IN-DOOR HINGED FRONTS. EQUIP WITH COPPER (ALUMINUM) BUS BARS, FULL-SIZED NEUTRAL AND GROUND BUS. PROVIDE DEAL FRONT SAFETY TYPE PANELBOARD SWITH ADOR-IN-DOOR HINGED FRONTS. EQUIP WITH COPPER (ALUMINUM) BUS BARS, FULL-SIZED NEUTRAL AND GROUND BUS. PROVIDE ENCLOSURES FABRICATED BY THE SAME MANUFACTURER AS OVERCURRENT DEVICES. BOLT ENGRAVED PLASTIC LAMINATE LABELS INDICATING PANEL NAME AND VOLTAGE ON THE INTERIOR AND EXTERIOR OF PANELBOARD. 	4225 Lake West Va P: 8 F: 8	RAA ISULTING Park Blvd, Suite 275 illey City, UT 84120 801.532.2196 B01.532.2305 bnaconsulting.com
TRAY, TO THE POINT ROD AS POSSIBLE TO THE ATION ISOLATORS AS ALL BE RESPONSIBLE FOR TO DETERMINE ALL RESPONSIBLE FOR CERTIFYING ELECTRICAL LINES, ARC-FLASH AILABLE FAULT CURRENT STALLED AS PART OF THIS CABLES: SELF-ADHESIVE VINYL	 PROVIDE HEAVY DUTY SPECIFICATION GRADE, 20-AMPERES RATED, GROUNDING TYPE CONVENIENCE OUTLETS. PROVIDE 20-AMPRESE RATED TOGGLE SWITCHES. CONSTRUCT WIRING DEVICE OF HEAVY-DUTY HIGH IMPACT NYLON AND PROVIDE COVER PATES TO MATCH. PROVIDE DEVICES AND COLORS SELECTED BY ARCHITECT. PROVIDE THE FOLLOWING: CONTROLLED RECEPTACLE - NEMA 5-20R TO COMPLY WITH NEC 406.3(F). GROUND FAULT INTERRUPTER - NEMA 5020R WITH 5 MILIAMPERIS GROUND FAULT TRIP LEVEL. USB RECEPTACLE - NEMA 5-20R WITH (2) USB, 5VDC, 2.0 AND 3.0 TYPE A AND TYPE C PORTS. TAMPER RESISTANT RECEPTACLE - NEMA 5-20R TO COMPLY WITH NEC 406.12. WEATHER-RESISTANT RECEPTACLE - NEMA 5-20R TO COMPLY WITH NEC 406.9. WEATHER PROTECTIVE DEVICE ENCLOSURE - PROVIDE IN-USE COVER TO COMPLY WITH NEC 406.9. 		
ORED, CONTINUOUS-PRINTED, LESS THAN 6" WIDE BY 4 ION PLATES: ENGRAVING S UP TO 20" SQUARE, OR 8" IN COWER (I.E. PANEL - CIRCUIT #) AND EVERY CIRCUIT, TO CCEPTABLE MEANS OF COLOR TORS	 OVERCURRENT PROTECTIVE DEVICES PROVIDE OVERCURRENT PROTECTIVE DEVICES OF THE SAME MANUFACTURER AS THE SWITCHBOARD AND/OR PANELBOARD MANUFACTURER. PROVIDE FACTORY ASSEMBLED DEVICES OF AMPERAGE, VOLTAGE, AND RMS INTERRUPTING RATING SHOWN. PROVIDE DEVICES AS FOLLOWS: MOLDED CASE THERMAL TRIP CIRCUIT BREAKERS: PROVIDE FACTORY.ASSEMBLED BOLT-ON MOLDED CASE CIRCUIT BREAKER WITH PERMANENT THERMAL TRIP AND ADJUSTABLE INSTANTANEOUS MAGNETIC TRIP IN EACH POLE. SERIES RATING IS NOT ACCEPTABLE. CONSTRUCT BREAKERS FOR MOUNTING AND OPERATING IN ANY PHYSICAL POSITION AND IN AN AMBIENT TEMPERATURE OF 40 DEGREES C. CIRCUIT BREAKERS MOLDED CASE SOLID STATE CIRCUIT BREAKERS MOLDED CASE SOLID STATE CIRCUIT BREAKERS PROVIDE FACTORY ASSEMBLED BOLT-ON MOLDED CASE CIRCUIT BREAKERS UL LISTED FOR APPLICATION AT 100% OF THEIR RATED CONTINUOUS AMPERE RATING. CIRCUIT BREAKERS. SOLID-STATE TRIP MECHANISMS SHALL HAVE THE FOLLOWING FUNCTIONS: ADJUSTABLE LONG TIME AMPERE RATING; ADJUSTABLE LONG TIME DELAY; SHORT TIME PICK-UP; ADJUSTABLE SHORT TIME DELAY; ADJUSTABLE INSTANTANEOUS PICK-UP. 	AREHOUSE	
L AND CONNECTIONS BOXES TH IDENTITY OF CONTAINED	 MOTOR AND CIRCUIT DISCONNECTS PROVIDE HEAVY-DUTY TYPE SAFETY SWITCHES; FUSIBLE OR NON-FUSIBLE AS INDICATED. PROVIDE SWITCHES RATED AT 600 VOLTS, 60 HZ; INCORPORATING QUICK-MAKE, QUICK-BREAK TYPE MECHANISMS. EQUIP WITH OPERATING HANDLE THAT IS CAPABLE OF BEING PADLOCKED IN THE OFF POSITION. PROVIDE NEMA ENCLOSURE RATINGS BASED ON LOCATION OF INSTALLATION. MOTOR STARTERS PROVIDE FACTORY ASSEMBLED, AC-NON-RESERVING MAGNETIC STARTERS RATED AT 600V WITH THERMAL OVERLOAD PROTECTION IN ALL PHASES. MOUNT HAND-OFF-AUTO SWITCH, RED PILOT LIGHT, AND RESET BUTTON IN FACE OF ENCLOSURE. PROVIDE NEMA ENCLOSURES RATINGS BASED ON LOCATION OF INSTALLATION. INTERIOR AND EXTERIOR BUILDING LIGHTING PROVIDE LIGHTING FIXTURES COMPLETE WITH ALL COMPONENTS FOR EACH SIZE, TYPE, AND RATING INDICATED. THIS INCLUDES, BUT NOT LIMITED TO HOUSING, DRIVER, REFLECTORS, AND WIRING. SIZE FUSES PER BALLAST MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL NECESSARY SUPPORTS, BRACKETS, AND MISCELLANEOUS EQUIPMENT FOR THE MOUNTING OF FIXTURES. SUPPORT ALL GRID MOUNTED FIXTURES FROM THE BUILDING STRUCTURE WITH #12GA. STEEL WIRE ATTACHED TO EACH CORNER; INDEPENDENT FOR THE MOUNTING OF FIXTURES. SUPPORT ALL GRID MOUNTED FIXTURES FROM THE BUILDING STRUCTURE WITH #12GA. STEEL WIRE ATTACHED TO EACH CORNER; INDEPENDENT OF THE CEILING SYSTEM. PROVIDE BACKING SUPPORTS. PROVIDE GYPSUM BOARD PROTECTION AS REQUIRED TO MAINTAIN FIRE RATING OF EACH CEILING IN WHICH FIXTURES ARE INSTALLED. PROVIDE ALL EXTERIOR FIXTURES WITH DAMP OR WET LOCATION LABEL AS REQUIRED BY APPLICATION. PROVIDE CLASS 2 WIRING FOR ALL FIXTURES INDICATED TO HAVE 0-10 DIMMING. TELECOMMUNICATIONS SYSTEMS RACEWAYS PROVIDE A COMPLETE RACEWAY SYSTEM INCLUDING BUT NOT LIMITED TO: RACEWAY, OUTLETS, COVER PLATES, BACKBOARDS, GROUNDING, AND MISCELLANEOUS ITEMS AS REQUIRED. PROVIDE A COMPLETE RACEWAY SYSTEM INCLUDING BUT NOT LIMITED TO: CABLE TRAY OR TELECOM MACK (WHICHEVER IS CLOSER). COMPLY W	KCC STORES WAI	2010 N. RULON WHITE BLVD. FARR WEST. UT 84404
IGS. PROVIDE WITH THE VIDE OCCUPANCY SENSORS ORATE ULTRASONIC AND L HAVE AUTOMATIC SELF- SITIVITY SETTINGS TO ENSOR SHALL FIT IN A SINGLE TE. SENSOR SHALL HAVE A 170 SHALL INCORPORATE NIT. SENSOR SHALL HAVE 'S TIMER AND SENSITIVITY RGY USAGE. SENSOR SHALL FOR COVER PLATE. SENSOR INCORPORATE RAISE/LOWER	 SECURITY SYSTEM RACEWAYS PROVIDE A COMPLETE RACEWAY SYSTEM INCLUDING BUT NOT LIMITED TO: RACEWAY, OUTLETS, COVER PLATES, BACKBOARDS, GROUNDING, AND MISCELLANEOUS ITEMS AS REQUIRED. PROVIDE (1) 3/4" EMT CONDUIT FROM EACH SECURITY DEVICE TO CABLE TRAY OR TERMINAL CABINET (WHICHEVER IS CLOSER). COMPLY WITH NEC, BICSI, AND RECOGNIZED INDUSTRY PRACTICES. PROVIDE NYLON PULL CORD IN ALL INSTALLED RACEWAY. PROVIDE (1) #6 BARE COPPER GROUND FRAM EACH SECURITY SYSTEM TERMINAL BOARD TO THE SERVICE ENTRANCE GROUND. COIL SIX FEET OF CONDUCTOR AT EACH TERMINAL BOARD. FIRE ALARM AND DETECTION SYSTEMS PROVIDE AN ADDRESSABLE, ELECTRICALLY SUPERVISED FIRE ALARM SYSTEM WITH ALL APPLICABLE PROVISIONS OF THE CURRENT NFPA 72, NATIONAL FIRE ALARM CODE, IFC INTERNATIONAL FIRE CODE AND SHALL MEET ALL REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION. PROVIDE A MINIMUM OF #14 AWG COPPER WIRING IN 3/4" CONDUIT. FIRE ALARM MC IS NOT ALLOWED. 		BRIAN HICKS 77090374202
RPORATE ULTRASONIC AND HAVE AUTOMATIC SELF- SITIVITY SETTINGS TO ENSOR LENS SHALL HAVE A		MARK DATE 1 11.4.24 PLA 4 12.03.24 Revi	



		REVISIONS
IARK	DATE	DESCRIPTION
1	11.4.24	PLAN REVIEW
4	12.03.24	Revision 3

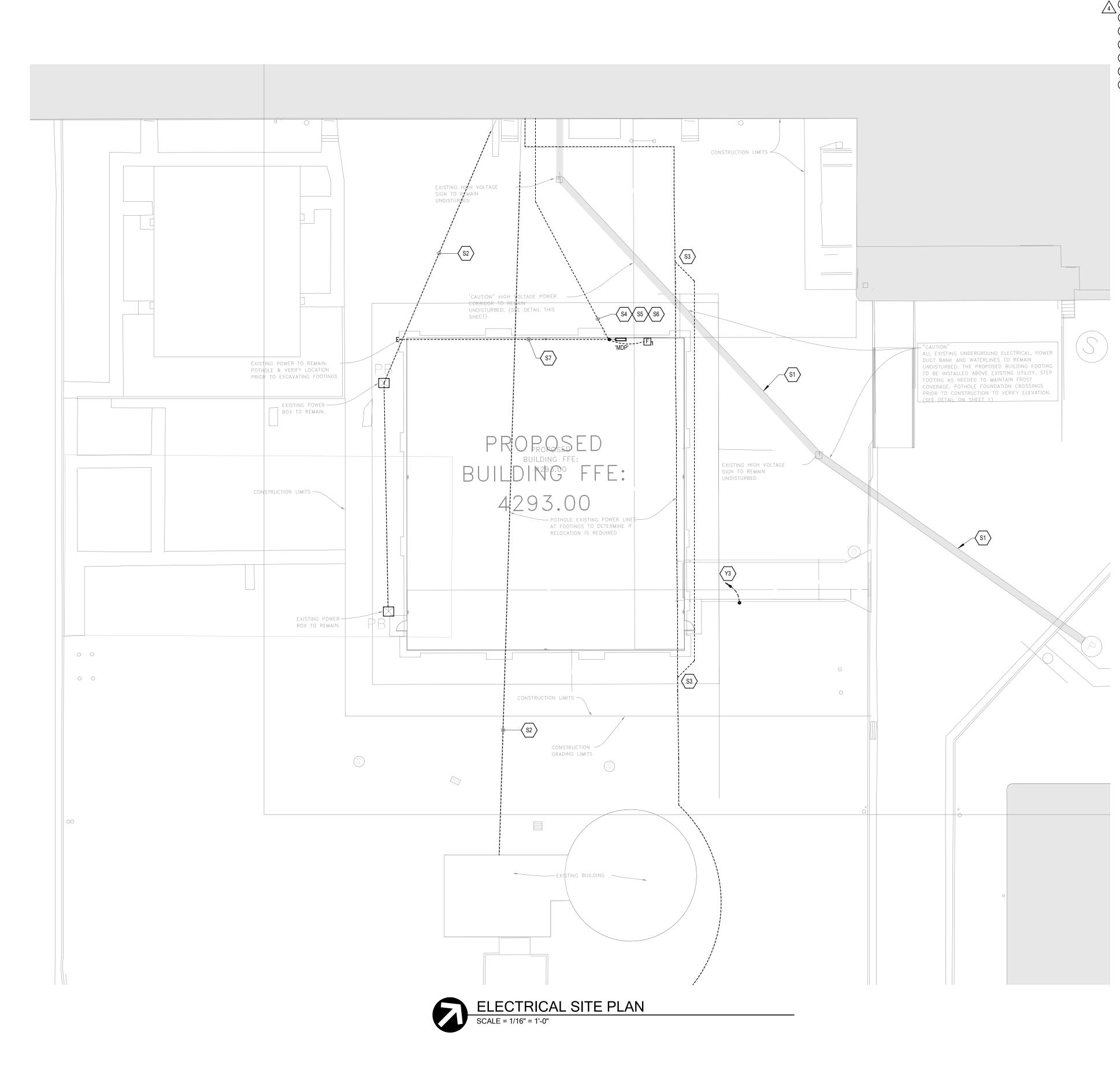
DATE: 04 OCT 2024 PROJECT NO: EA24022TP DRAWN BY: Author CHK'D BY: Checker

ELECTRICAL **SPECIFICATIONS**

F-0

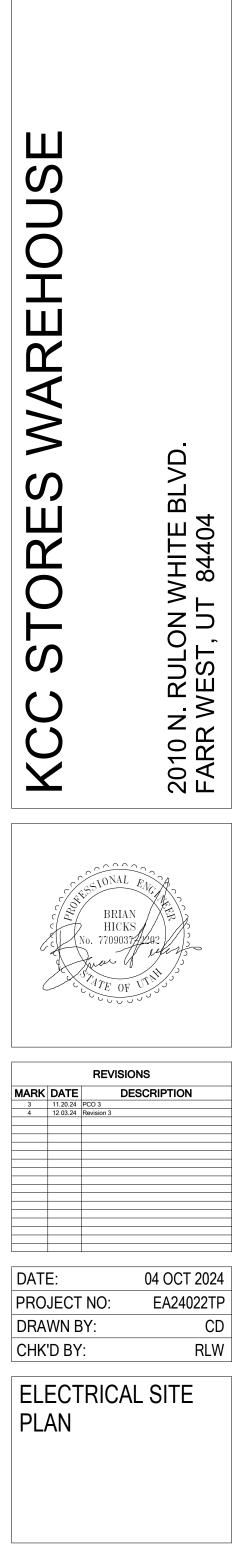
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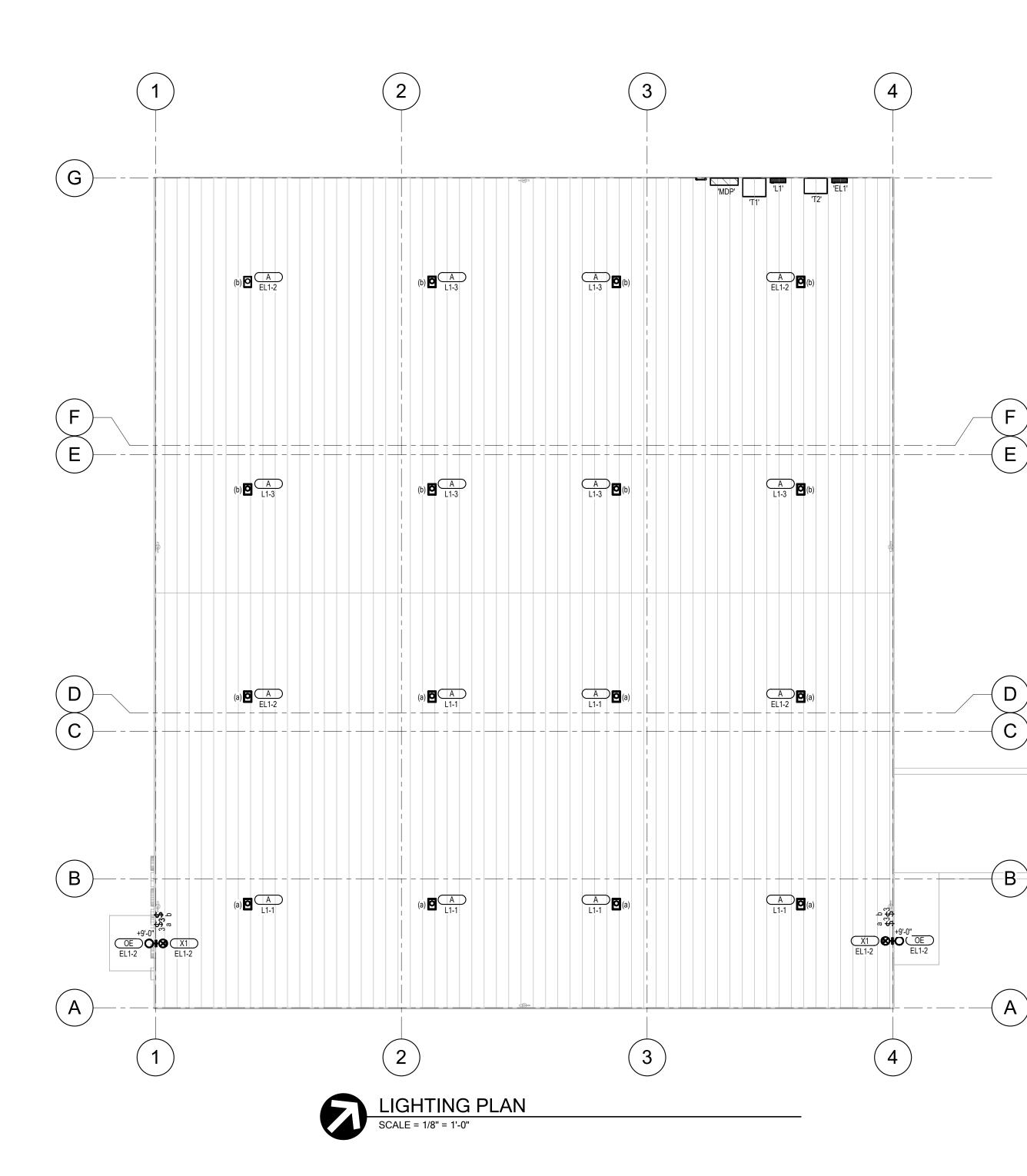
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	SHEET KEYNOTES
S1	EXISTING POWER DUCT BANK TO REMAIN. COORDINATE PROTECTION DURING CONSTRUCTION ACTIVITIES.
S2	EXISTING POWER FEED TO DIESEL PUMP HOUSE TO REMAIN. COORDINATE PROTECTION DURING CONSTRUCTION ACTIVITIES.
S3	INTERCEPT EXISTING MUSTER STATION AND LIGHT POLE FEEDS. REROUTE FEEDS (2 3/4" CONDUITS, 1 WITH #10 WIRE FOR LIGHT POLE AND 1 WITH PULL STRINGS FOR MUSTER STATION) AROUND NEW BUILDING.
S4	PROVIDE (2) 2" CONDUITS FOR NORMAL POWER FEED. PROVIDE A MINIMUM OF 18" COVER OVER CONDUITS WITH NATIVE SOIL BACKFILL. SEE ONE-LINE DIAGRAM SHEET E-401 FOR ADDITIONAL REQUIREMENTS.
S5	PROVIDE (1) 1" CONDUIT FOR EMERGENCY POWER FEED. PROVIDE A MINIMUM OF 18" COVER OVER CONDUITS WITH NATIVE SOIL BACKFILL. SEE ONE-LINE DIAGRAM SHEET E-401 FOR ADDITIONAL REQUIREMENTS.
S6	PROVIDE (1) 1" CONDUIT WITH (4) CAT6 CABLES FOR ACCESS CONTROL. PROVIDE (2) 3/4" CONDUITS FOR FIRE ALARM. PROVIDE A MINIMUM OF 18" COVER OVER CONDIUTS WITH NATIVE SOIL BACKFILL.
S7	PROVIDE (3) 1 1/4" CONDUITS STUBBED FROM MAIN DISTRIBUTION PANEL MDP TO 5'-0" PAST EDGE OF BUILDING FOR FUTURE TRAILERS. PROVIDE A MINIMUM OF 18" COVER OVER CONDUITS WITH NATIVE SOIL BACKFILL.
лл. Y3	PROVIDE A 1" CONDUIT STUBBED FOR PEDISTAL LOCATION TO ACCESS CONTROL STUB LOCATION.







LIGHTING SENSOR GENERAL NOTES

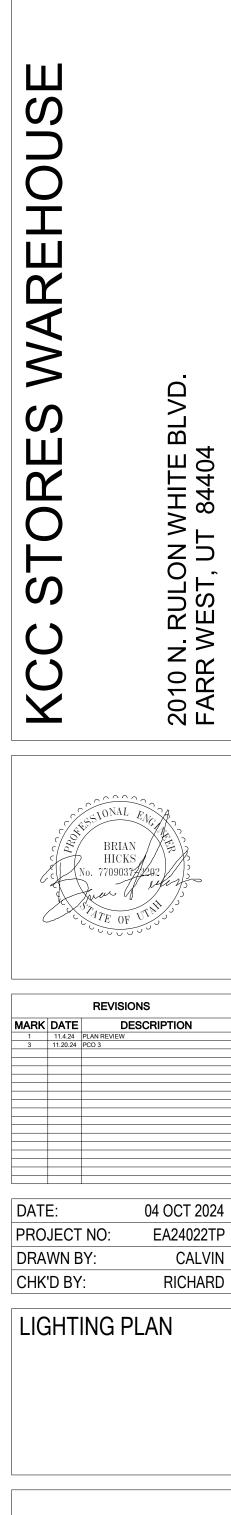
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE SENSOR MANUFACTURER FOR PROPER PLACEMENT AND ADJUSTMENT OF OCCUPANCY SENSORS.
- EACH ZONE SHALL HAVE COVERAGE BY OCCUPANCY SENSOR SUCH THAT NO BLIND SPOT EXIST.
- UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMPLETELY COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS AND SENSOR PLACEMENT TO ENSURE A TROUBLE-FREE INSTALLATION.
- THE LOCATION AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY COVER THE RESPECTIVE ROOM.
- PROVIDE DAYLIGHT ZONE CONTROL REQUIREMENTS PER CURRENT IECC REQUIREMENTS. LOCATE DAYLIGHT SENSOR(S) PER MANUFACTURER'S RECOMMENDATION AND WHERE REQUIRED WITHIN THE ROOM FOR PROPER COVERAGE.
- PROVIDE OCCUPANCY SENSOR WITH AN ADDITIONAL SET OF DRY CONTACTS FOR HVAC CONTROL AT EACH VAV BOX LOCATION. COORDINATE WITH MECHANICAL DRAWINGS AND THE MECHANICAL CONTRACTOR FOR EXACT LOCATIONS.

E

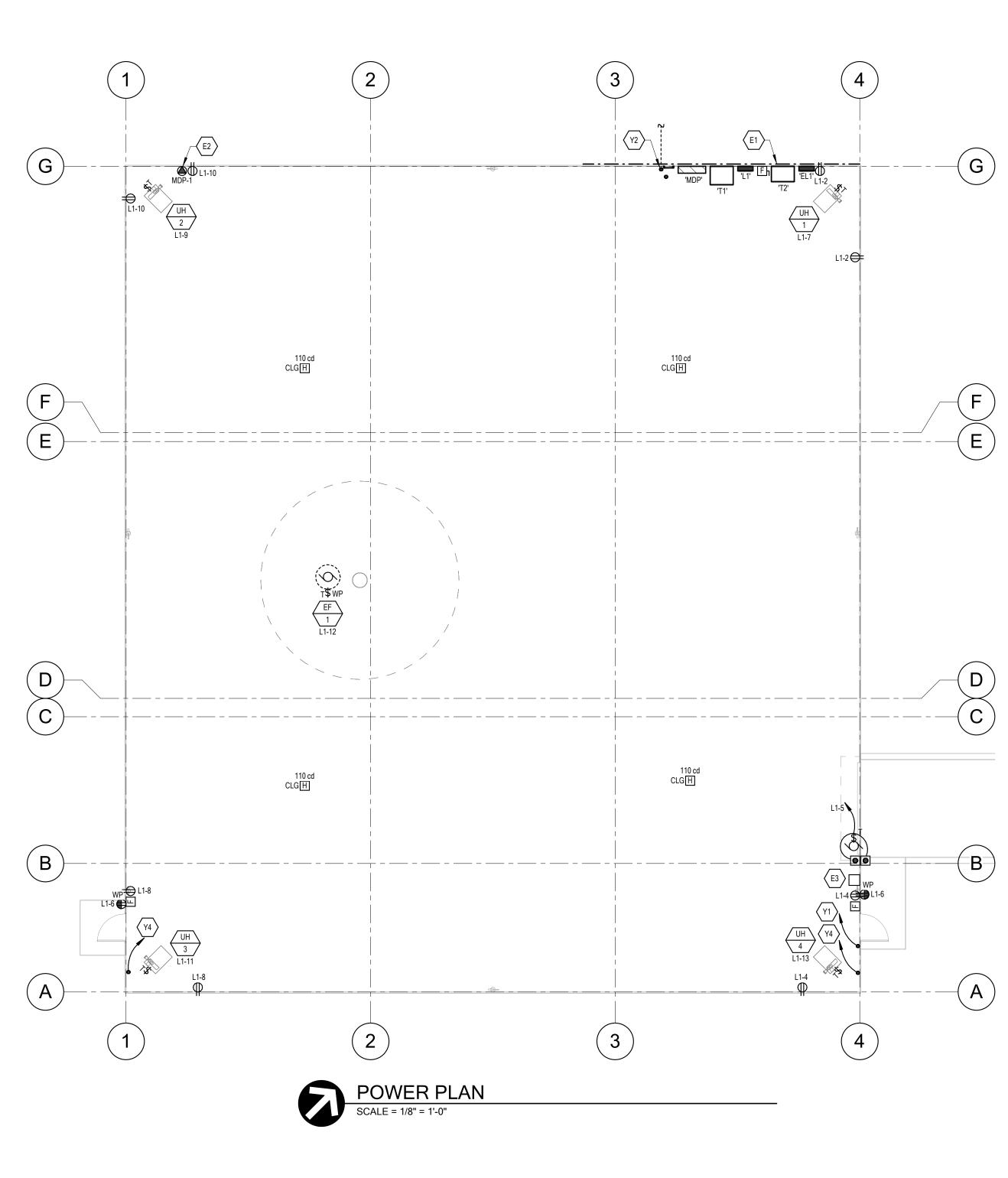
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SHEET KEYNOTES





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SHEET KEYNOTES

- E1 PROVIDE 30' OF 3/0 BARE COPPER IN BUILDING FOOTING. SEE DIAGRAM F020/E-501.
- E2 PROVIDE A HUBBELL "HBL460MI7W" CIRCUIT LOCK WELDING OUTLET.
- E3 VARIABLE FREQUENCY DRIVE FOR CEILING FANS CF-1 AND CF-2.
- Y1 PROVIDE A 1" EMT CONDUIT FROM DOOR LOCATION TO ACCESS CONTROL STUB LOCATION.
- Y2 PROVIDE A 1" CONDUIT STUBBED OUT OF BUILIDNG (SEE SHEET E-101) FOR CONTINUATION FOR ACCESS CONTROL.

Y4 PROVIDE A 1" CONDUIT FOR CAMERA LOCATION.



KCC STORES WAREHOUSE

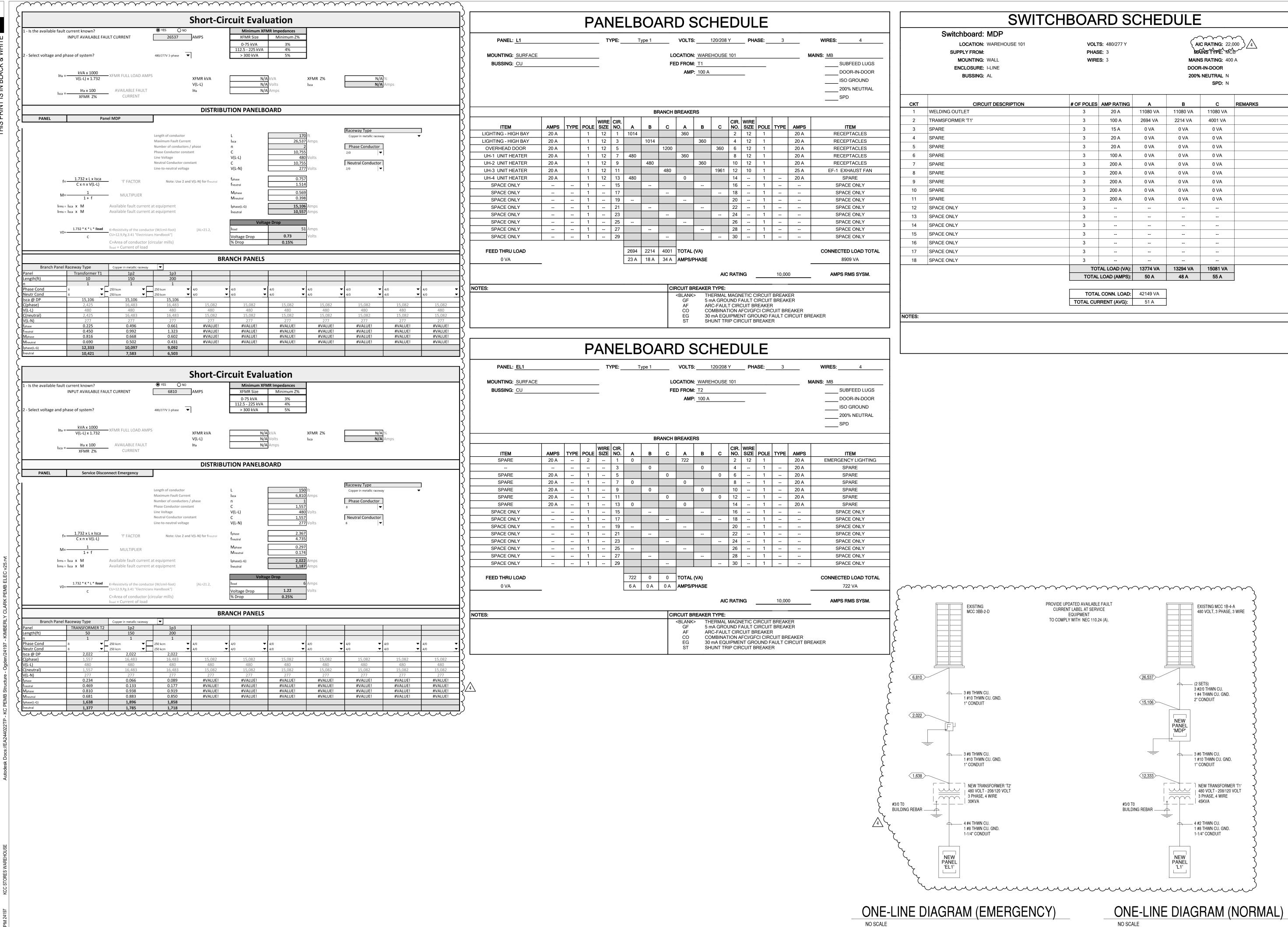
2010 N. RULON WHITE BLVD FARR WEST, UT 84404



		REVISIONS			
MARK	DATE	DESCRIPTION			
1	11.4.24	PLAN REVIEW			
2	11.20.24	REVISION 1			
3	11.20.24	PCO 3			

DATE:	04 OCT 2024
PROJECT NO:	EA24022TP
DRAWN BY:	BIM LEAD
CHK'D BY:	ENGINEER

POWER PLAN



PHAS	E: 3	AIC RATING: 22,000 MAINS TYPE: MCB MAINS RATING: 400 A DOOR-IN-DOOR 200% NEUTRAL N SPD: N					
# OF POLES	AMP RATING	А	В	с	REMARKS		
3	20 A	11080 VA	11080 VA	11080 VA			
3	100 A	2694 VA	2214 VA	4001 VA			
3	15 A	0 VA	0 VA	0 VA			
3	20 A	0 VA	0 VA	0 VA			
3	20 A	0 VA	0 VA	0 VA			
3	100 A	0 VA	0 VA	0 VA			
3	200 A	0 VA	0 VA	0 VA			
3	200 A	0 VA	0 VA	0 VA			
3	200 A	0 VA	0 VA	0 VA			
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