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BID DOCUMENTS

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RELEASE

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SCHEDUL

G-101 CODE INFORMATIO

G-201 SYMBOLS AND PRO

C-101 EXISTING CONDITIC

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A-601 DOOR AND FRAME DETAILS

A-901 PERSPECTIVE VIEWS

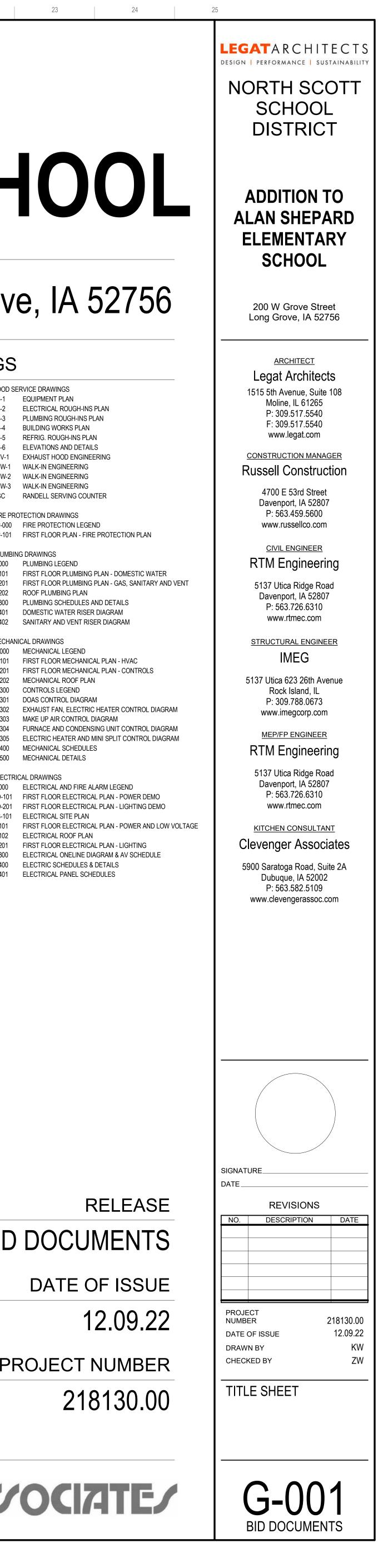
GENERAL DRAWINGS

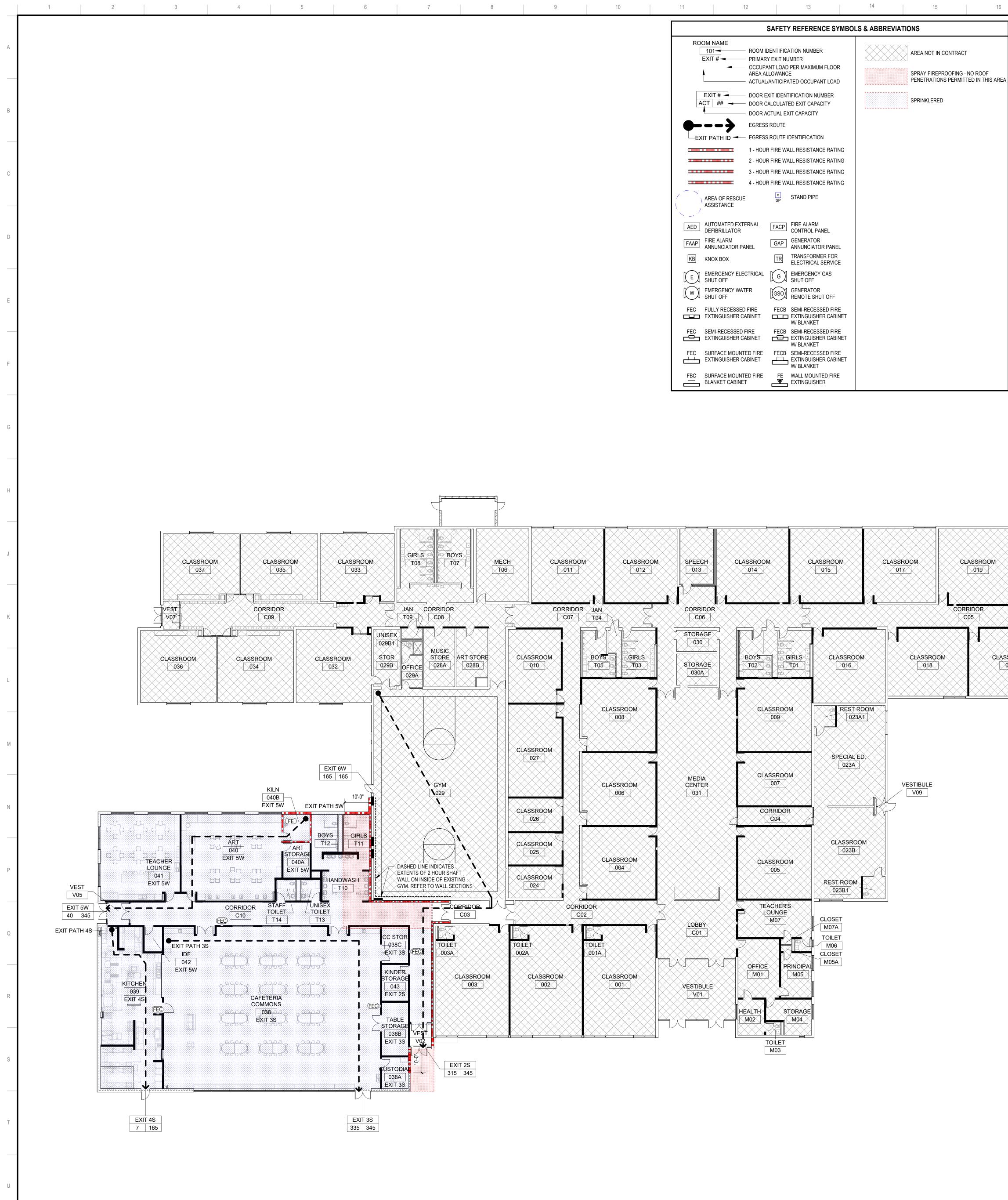
CIVIL DRAWINGS

G-001 TITLE SHEET

E OF DRAWINGS						
	FOOD SE	ERVICE DRAWINGS				
	FS-1	EQUIPMENT PLAN				
N & SAFETY REFERENCE PLANS	FS-2	ELECTRICAL ROUGH-INS PLAN				
DJECT GENERAL NOTES	FS-3	PLUMBING ROUGH-INS PLAN				
	FS-4	BUILDING WORKS PLAN				
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ONS & SITE DEMO PLAN	FS-6	ELEVATIONS AND DETAILS				
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	FSW-1	WALK-IN ENGINEERING				
	FSW-2	WALK-IN ENGINEERING				
L PLAN	FSW-3	WALK-IN ENGINEERING				
	RSC	RANDELL SERVING COUNTER				
	FIRE PR	OTECTION DRAWINGS				

Long Grove, IA 52756





SAFETY REFERENCE SYMBO	OLS & ABBREVIATIONS
ROOM NAME	
101- ROOM IDENTIFICATION NUMBER	AREA NOT IN CONTRACT
EXIT # - PRIMARY EXIT NUMBER	
OCCUPANT LOAD PER MAXIMUM FLOOR AREA ALLOWANCE	SPRAY FIREPROOFING - NO ROOF
ACTUAL/ANTICIPATED OCCUPANT LOAD	PENETRATIONS PERMITTED IN THIS ARE
EXIT # DOOR EXIT IDENTIFICATION NUMBER	
	SPRINKLERED
EGRESS ROUTE	
EXIT PATH ID - EGRESS ROUTE IDENTIFICATION	
1 - HOUR FIRE WALL RESISTANCE RATING	
2 - HOUR FIRE WALL RESISTANCE RATING	
3 - HOUR FIRE WALL RESISTANCE RATING	
4 - HOUR FIRE WALL RESISTANCE RATING	
AREA OF RESCUE SP STAND PIPE ASSISTANCE	
AED AUTOMATED EXTERNAL FACP FIRE ALARM DEFIBRILLATOR FACP CONTROL PANEL	
FAAP FIRE ALARM GAP GENERATOR ANNUNCIATOR PANEL GAP ANNUNCIATOR PANEL	
KB KNOX BOX TR TRANSFORMER FOR ELECTRICAL SERVICE	
EMERGENCY ELECTRICAL G EMERGENCY GAS SHUT OFF	
W EMERGENCY WATER GSO GENERATOR SHUT OFF GSO REMOTE SHUT OFF	
FEC FULLY RECESSED FIRE FECB SEMI-RECESSED FIRE EXTINGUISHER CABINET EXTINGUISHER CABINET EXTINGUISHER CABINET W/ BLANKET	
FEC SEMI-RECESSED FIRE FECB SEMI-RECESSED FIRE EXTINGUISHER CABINET W/ BLANKET	
FEC SURFACE MOUNTED FIRE FECB SEMI-RECESSED FIRE EXTINGUISHER CABINET EXTINGUISHER CABINET W/ BLANKET	
FBC SURFACE MOUNTED FIRE FE WALL MOUNTED FIRE	

-					
17	18	19	20	21	

	PLU	MBING FIXTU	RE COUNT				BL
SCHOOLS-STUDENT USE: ELEMENTARY OR EDUCATIONAL: E							APPLICABLE CODE
OCCUPANT LOAD: 383	MAL	E OCCUPANTS:	192	FEMAL	E OCCUPANTS:	192	USE GROUP
	MALE FIXTURES	MALE REQUIRED	MALE	FEMALE FIXTURES	FEMALE REQUIRED	FEMALE ACTUAL	CONSTRUCTION TYPE
	REQUIRED	REGUIRED	ACTURE	REQUIRED	REQUIRED	ACTUAL	ALLOWABLE HEIGHT (
WATER CLOSET	1 PER 50	4	4	1 PER 50	4	5	ACTUAL HEIGHT
URINALS		0	1				ALLOWABLE STORIES
LAVATORIES	1 PER 50	4	4	1 PER 50	4	4	ACTUAL STORIES ABC
DRINKING FOUNTAINS	1 PER 100	4	4				ALLOWABLE AREA (TA
SERVICE SINKS	1 PER FLOOR	1 PER FLOOR	1 PER FLOOR				AREA INCREASE DUE
	Г						MAXIMUM ALLOWABL
			EXIL	OOR SCHED	ULE		

			MEANS OF		
DOOR EXIT	DOOR WIDTH	CLEAR WIDTH (INCHES)	EGRESS CAPACITY FACTOR	MAX EXIT CAPACITY	ACTUAL EXIT CAPACITY
EXIT 2S	6'-0"	69	0.2	345	315
EXIT 3S	6'-0"	69	0.2	345	335
EXIT 4S	3'-0"	33	0.2	165	7
EXIT 5W	6'-0"	69	0.2	345	40
EXIT 6W	3'-0"	33	0.15	220	165

EXIT TRA	AVEL DISTANCES
EXIT PATH ID	TRAVEL DISTANCE
EXIT PATH 2S	171'-5"
EXIT PATH 3S	129'-2"
EXIT PATH 4S	70'-8"
EXIT PATH 5W	105'-6"

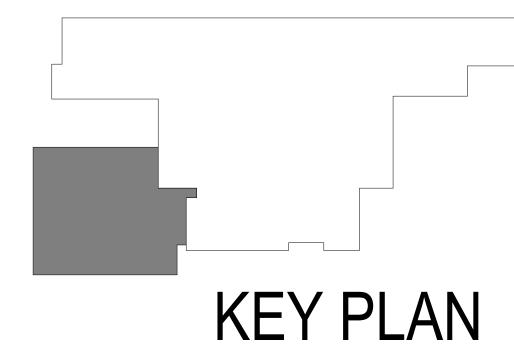
	CLASSROOM 021	CLASSROOM 022	
SROOM			

			-	
CONSTRUCTION TYPE (TABLE 601)			IIB	
ALLOWABLE HEIGHT (TABLE 504.3)			75 FEET	
ACTUAL HEIGHT			20'-6"	
ALLOWABLE STORIES ABOVE GRADE (TABLE 50	4.4)	3	
ACTUAL STORIES ABOVE GRADE		,	1	
ALLOWABLE AREA (TABLE 506.2)			S1 - 58,000 SF	
AREA INCREASE DUE TO FRONTAGE (506.3)		NOT USED	
MAXIMUM ALLOWABLE AREA			58,000 SF	
IEW BUILDING FOOTPRINT			12,200 SF	
XISTING BUILDING FOOTPRINT - NON	SPRINKL	ERED	45,500 SF	
AUTOMATIC SPRINKLER SYSTEM REQU	JIREMEN	TS	YES - ADDITIO	N ONLY
ADDITION WILL BE SEPARATED FROM	THE EXIS	TING BU	JILDING WITH A	2 HOUR F
FIRE-RESISTANCE RA	TINGS	FOR		EMENT
	RATIN	9	UL APPROVE	DESIGN
PRIMARY STRUCTURAL FRAME				
BEAMS	0 HR	-		
COLUMNS	0 HR	-		
EARING WALLS				
EXTERIOR	0 HR	-		
INTERIOR	0 HR	_		
SSOCIATED SECONDARY MEMBERS	0 HR	-		
ROOF CONSTRUCTION AND	0 HR	-		
PERIMETER FIRESTOPPING AT	0 HR			
PERIMETER FIRESTOPPING AT EDGE DF SLAB	0 HR	-		
FIRE WALL (TABLE 706.4)	2 HR	U9	06	
PARTY WALLS (TABLE 706.4)	0 HR	-		
ORRIDOR WALLS (TABLE 1020.1)	0 HR			
EXTERIOR WALL FIRE SEPARATION			1-HOUR: 5' > X	< 10'
DISTANCE (TABLE-602)			X < 30' / 0-HOU	
MEANS OF EGRE	SS - NI	EW CC	NSTRUCTIO	N
				SPR
APPLICABLE CODE				IBC
DOOR/CORRIDOR EGRESS WIDTH (100	5 3 2)			0.2/P
	0.0.2)			
STAIR EGRESS WIDTH (1005.3.1)				0.3/F
MAX. LENGTH OF EXIT ACCESS TRAVE				250
MAX. LENGTH OF COMMON PATH EGRE	ESS TRA	VEL (TA	BLE 1006.2.1)	75
MAX. LENGTH OF DEAD END CORRIDO	RS (TABL	E 1020.4	4)	50
MINIMUM CORRIDOR WIDTH (TABLE 10)	20.2)			72 IN
APPLICABLE COD	DES - N	EW C	ONSTRUCTIO	DN
2015 INTERNATIONAL BUILDING CO 2012 INTERNATIONAL ENERGY CON 2015 INTERNATIONAL EXISTING BUI 2015 INTERNATIONAL FIRE CODE (II 2015 INTERNATIONAL FUEL GAS CO 2015 INTERNATIONAL MECHANICAL 2015 INTERNATIONAL MECHANICAL	ISERVAT LDING C FC), EXCI	ODE (IE LUDING C)	BC)	
 FEDERAL ACCESSIBILITY CODE: 20 NFPA 101 LIFE SAFETY CODE, 2012 ICC A117.1-2009 ACCESSIBLE AND L 	CODE (II AINTENA 10 ADA S EDITION	NCE CO STANDA	RDS FOR ACCES	
• NFPA 101 LIFE SAFETY CODE, 2012	CODE (II AINTENA 10 ADA S EDITION JSABLE E	NCE CO STANDA	RDS FOR ACCES	
NFPA 101 LIFE SAFETY CODE, 2012 ICC A117.1-2009 ACCESSIBLE AND L	CODE (II AINTENA 10 ADA S EDITION JSABLE E	NCE CO STANDA SUILDINO E VAL	RDS FOR ACCES	IES
NFPA 101 LIFE SAFETY CODE, 2012 ICC A117.1-2009 ACCESSIBLE AND L ENERG	CODE (II AINTENA 10 ADA S EDITION JSABLE E Y COD	NCE CO STANDA SUILDINO E VAL	RDS FOR ÁCCES GS AND FACILIT UES REQUIRED	IES SPE(
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NFPA 101 LIFE SAFETY CODE, 2012 ICC A117.1-2009 ACCESSIBLE AND L ENERG CONDITION NSULATION ENTIRELY ABOVE ROOF D	CODE (II AINTENA 10 ADA S EDITION JSABLE E Y COD	NGE CC STANDA SUILDING E VAL	RDS FOR ÁCCES GS AND FACILIT UES REQUIRED R-30 CI R-11.4 CI	IES SPEC R-3 R-1
NFPA 101 LIFE SAFETY CODE, 2012 ICC A117.1-2009 ACCESSIBLE AND L ENERG CONDITION NSULATION ENTIRELY ABOVE ROOF D MASS WALL, ABOVE GROUND	CODE (II AINTENA 10 ADA S EDITION JSABLE E Y COD	NGE CC STANDA SUILDING E VAL	RDS FOR ÁCCES GS AND FACILIT UES REQUIRED R-30 CI	IES SPEC R-3 R-1
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NFPA 101 LIFE SAFETY CODE, 2012 ICC A117.1-2009 ACCESSIBLE AND L ENERG CONDITION INSULATION ENTIRELY ABOVE ROOF D MASS WALL, ABOVE GROUND UNHEATED SLAB SWINGING DOOR VERTICAL FENESTRATION	CODE (II AINTENA 10 ADA S EDITION JSABLE E Y COD	NGE CC STANDA SUILDING E VAL	RDS FOR ÁCCES GS AND FACILIT UES REQUIRED R-30 CI R-11.4 CI FOR 24" BELOW	IES SPEC R-3 R-10 R-10 FOR U-
NFPA 101 LIFE SAFETY CODE, 2012 ICC A117.1-2009 ACCESSIBLE AND L ENERG CONDITION INSULATION ENTIRELY ABOVE ROOF D MASS WALL, ABOVE GROUND UNHEATED SLAB SWINGING DOOR	CODE (II AINTENA 10 ADA S EDITION JSABLE E Y COD	NGE CC STANDA SUILDING E VAL	RDS FOR ÁCCES GS AND FACILIT UES REQUIRED R-30 CI R-11.4 CI FOR 24" BELOW	IES SPE(R-1 R-10 FOR U- U-
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 NFPA 101 LIFE SAFETY CODE, 2012 ICC A117.1-2009 ACCESSIBLE AND L ENERG CONDITION INSULATION ENTIRELY ABOVE ROOF D MASS WALL, ABOVE GROUND UNHEATED SLAB SWINGING DOOR VERTICAL FENESTRATION U-FACTOR SHGC VERTICAL FENESTRATION U-FACTOR VERTICAL FENESTRATION VIMBER ROOM NAME AR SUIT 3S CAFETERIA COMMONS 4974 VIA3 KITCHEN VIA3 KITCHEN VIA0 ART VIA0 ART VIA0 ART STORAGE VIA0 	CODE (II AINTENA 10 ADA S EDITION JSABLE E Y COD ECK IT LOA EA OCC SF 300 SF 300 SF 300 SF 300 SF 300 SF 300 SF 300 SF 300 SF 300 SF 50 SF 50 SF 50 SF 15	NCE CC STANDA UILDING E VAL F R-10 F R-10 F SF /	RDS FOR ÁCCES SS AND FACILIT UES REQUIRED R-30 CI R-11.4 CI COR 24" BELOW U-0.37 U-0.38 U-0.40 IEDULE CALCULATED OCCUPANT LO 1 1 1 332 1 1 1 335 7 7 7 24 1	IES SPE(R-1 R-10 FOR U- U- U- U-

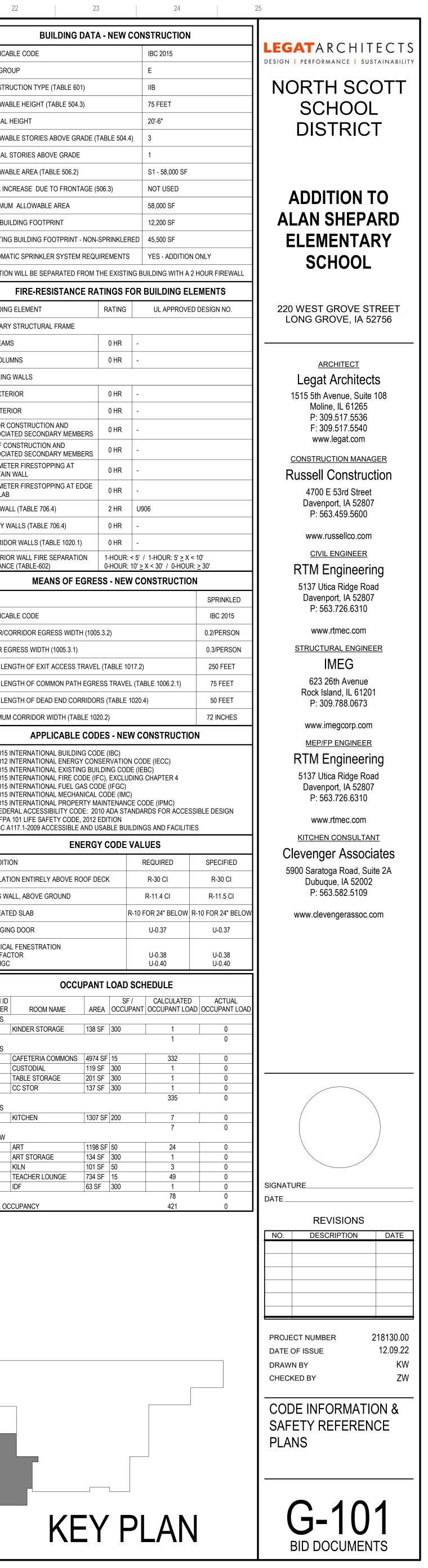
BUILDING DATA - NEW CONSTRUCTION

IBC 2015

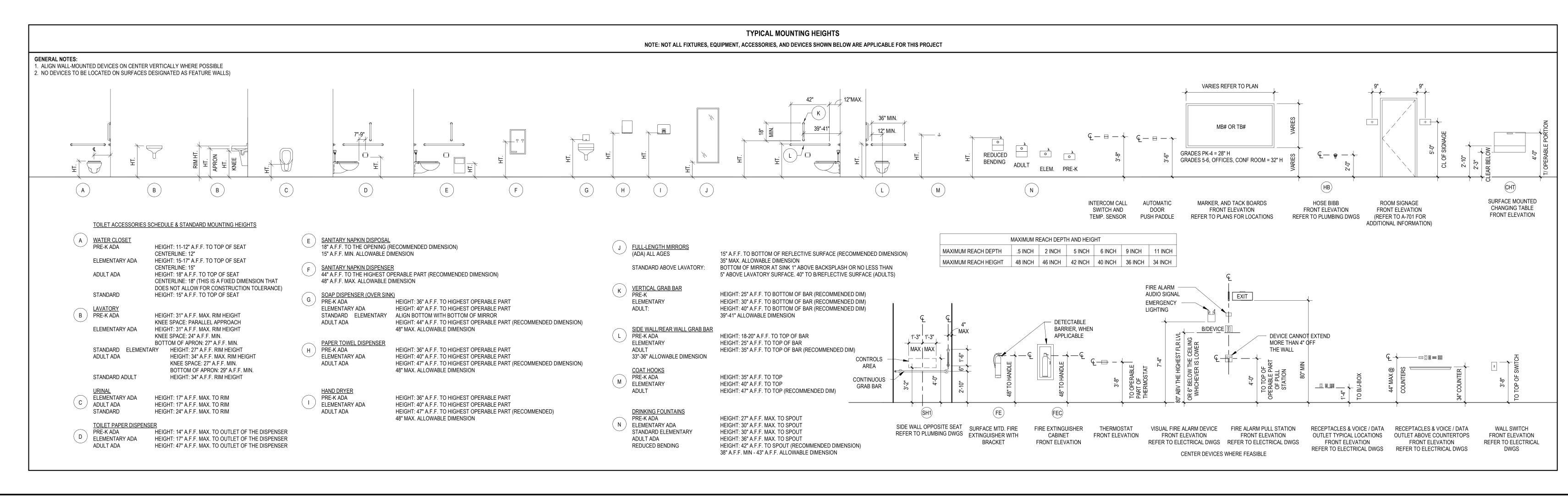
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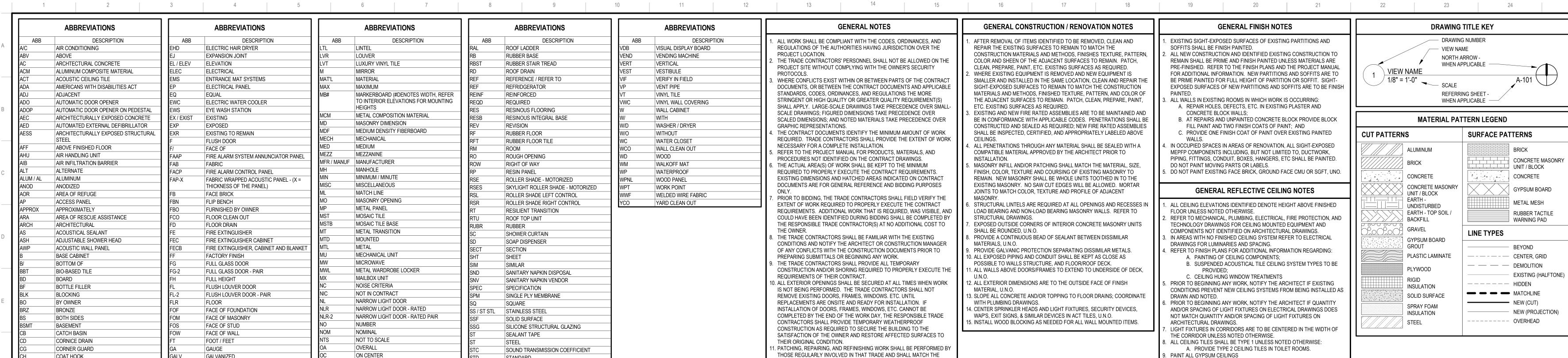


1 FIRST FLOOR LIFE SAFETY PLAN 1/16" = 1'-0"

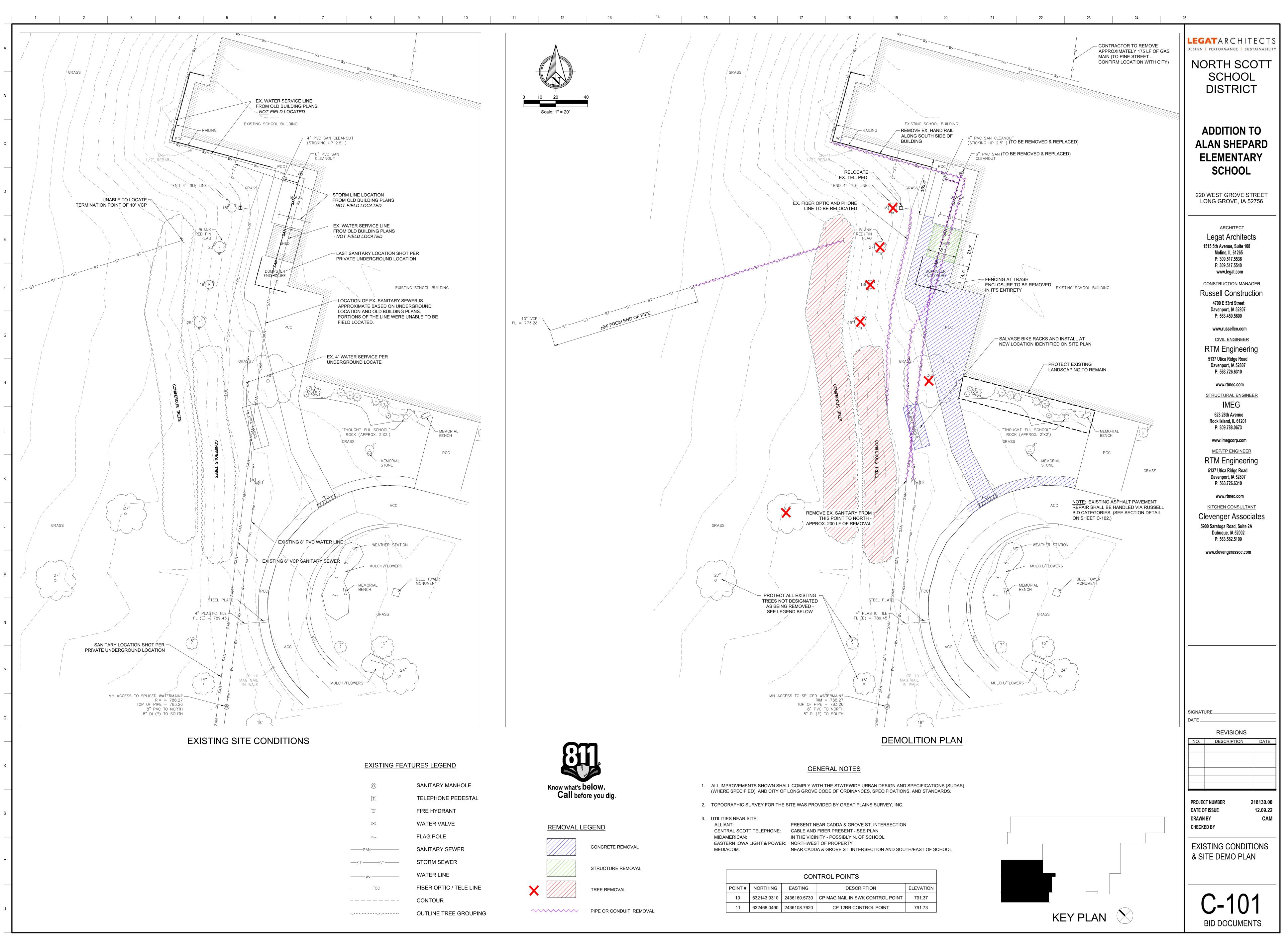


ABBREVIATIONS	ABBREVIATIONS	GENERAL NOTES
DESCRIPTION	ABB DESCRIPTION	1. ALL WORK SHALL BE COMPLIANT WITH THE CODES, ORDINANCES, AND
ROOF LADDER	VDB VISUAL DISPLAY BOARD	REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION OVER THE
RUBBER BASE	VEND VENDING MACHINE	PROJECT LOCATION. 2. THE TRADE CONTRACTORS' PERSONNEL SHALL NOT BE ALLOWED ON THE
RUBBER STAIR TREAD	VERT VERTICAL	PROJECT SITE WITHOUT COMPLYING WITH THE OWNER'S SECURITY
	VEST VESTIBULE VIF VERIFY IN FIELD	PROTOCOLS.
REFERENCE / REFER TO REFRIDGERATOR	VP VERIFY IN FIELD	 WHERE CONFLICTS EXIST WITHIN OR BETWEEN PARTS OF THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND APPLICABLE
REINFORCED	VT VINYL TILE	STANDARDS, CODES, ORDINANCES, AND REGULATIONS THE MORE
REQUIRED	VIC VINYL WALL COVERING	STRINGENT OR HIGH QUALITY OR GREATER QUALITY REQUIREMENT(S)
RESINOUS FLOORING	W WALL CABINET	SHALL APPLY. LARGE-SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL-
RESINOUS INTEGRAL BASE	W/ WITH	SCALE DRAWINGS; FIGURED DIMENSIONS TAKE PRECEDENCE OVER
REVISION	W/D WASHER / DRYER	SCALED DIMENSIONS; AND NOTED MATERIALS TAKE PRECEDENCE OVER GRAPHIC REPRESENTATIONS.
RUBBER FLOOR	W/O WITHOUT	4. THE CONTRACT DOCUMENTS IDENTIFY THE MINIMUM AMOUNT OF WORK
RUBBER FLOOR TILE	WC WATER CLOSET	REQUIRED. TRADE CONTRACTORS SHALL PROVIDE THE EXTENT OF WORK
ROOM	WCO WALL CLEAN OUT	NECESSARY FOR A COMPLETE INSTALLATION.
ROUGH OPENING	WD WOOD	 REFER TO THE PROJECT MANUAL FOR PRODUCTS, MATERIALS, AND PROCEDURES NOT IDENTIFIED ON THE CONTRACT DRAWINGS.
RIGHT OF WAY	WM WALKOFF MAT	6. THE ACTUAL AREA(S) OF WORK SHALL BE KEPT TO THE MINIMUM
RESIN PANEL	WP WATERPROOF	REQUIRED TO PROPERLY EXECUTE THE CONTRACT REQUIREMENTS.
ROLLER SHADE - MOTORIZED	WPNL WOOD PANEL	EXISTING DIMENSIONS AND HATCHED AREAS INDICATED ON CONTRACT
SKYLIGHT ROLLER SHADE - MOTORIZED	WPT WORK POINT	DOCUMENTS ARE FOR GENERAL REFERENCE AND BIDDING PURPOSES ONLY.
ROLLER SHADE LEFT CONTROL	WWF WELDED WIRE FABRIC	7. PRIOR TO BIDDING, THE TRADE CONTRACTORS SHALL FIELD VERIFY THE
ROLLER SHADE RIGHT CONTROL	YCO YARD CLEAN OUT	EXTENT OF WORK REQUIRED TO PROPERLY EXECUTE THE CONTRACT
RESILIENT TRANSITION		REQUIREMENTS. ADDITIONAL WORK THAT IS REQUIRED, WAS VISIBLE, AND
ROOF TOP UNIT	4	COULD HAVE BEEN IDENTIFIED DURING BIDDING SHALL BE COMPLETED BY
RUBBER	4	THE RESPONSIBLE TRADE CONTRACTOR(S) AT NO ADDITIONAL COST TO THE OWNER.
SHOWER CURTAIN	4	8. THE TRADE CONTRACTORS SHALL BE FAMILIAR WITH THE EXISTING
SOAP DISPENSER	4	CONDITIONS AND NOTIFY THE ARCHITECT OR CONSTRUCTION MANAGER
SECTION	4	OF ANY CONFLICTS WITH THE CONSTRUCTION DOCUMENTS PRIOR TO
SHEET	4	PREPARING SUBMITTALS OR BEGINNING ANY WORK. 9. THE TRADE CONTRACTORS SHALL PROVIDE ALL TEMPORARY
	4	9. THE TRADE CONTRACTORS SHALL PROVIDE ALL TEMPORARY CONSTRUCTION AND/OR SHORING REQUIRED TO PROPERLY EXECUTE THE
SANITARY NAPKIN DISPOSAL SANITARY NAPKIN VENDOR	4	REQUIREMENTS OF THEIR CONTRACT.
SANITARY NAPKIN VENDOR SPECIFICATION	4	10. ALL EXTERIOR OPENINGS SHALL BE SECURED AT ALL TIMES WHEN WORK
SPECIFICATION SINGLE PLY MEMBRANE	1	IS NOT BEING PERFORMED. THE TRADE CONTRACTORS SHALL NOT REMOVE EXISTING DOORS, FRAMES, WINDOWS, ETC. UNTIL
SINGLE PLY MEMBRANE SQUARE	1	REMOVE EXISTING DOORS, FRAMES, WINDOWS, ETC. UNTIL REPLACEMENTS ARE ONSITE AND READY FOR INSTALLATION. IF
L STAINLESS STEEL	1	INSTALLATION OF DOORS, FRAMES, WINDOWS, ETC. CANNOT BE
SOLID SURFACE	1	COMPLETED BY THE END OF THE WORK DAY, THE RESPONSIBLE TRADE
SILICONE STRUCTURAL GLAZING	1	CONTRACTORS SHALL PROVIDE TEMPORARY WEATHERPROOF CONSTRUCTION AS REQUIRED TO SECURE THE BUILDING TO THE
SEALANT TAPE	1	SATISFACTION OF THE OWNER AND RESTORE AFFECTED SURFACES TO
STEEL	1	THEIR ORIGINAL CONDITION.
SOUND TRANSMISSION COEFFICIENT	1	11. PATCHING, REPAIRING, AND REFINISHING WORK SHALL BE PERFORMED BY
STANDARD	1	THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE
STEEL	1	EXISTING ADJACENT CONSTRUCTION AS CLOSELY AS POSSIBLE IN MATERIAL, FINISH, COLOR, TEXTURE AND SHEEN. REFER TO THE
STORAGE]	CONTRACT DRAWINGS FOR EXISTING BUILDING CONSTRUCTION TO
STRUCTURAL		REMAIN.
STONE THRESHOLD	1	12. TRADE CONTRACTORS SHALL PROTECT THEIR WORK AND EXISTING
STOVE	1	CONSTRUCTION, FINISHES, AND EQUIPMENT TO REMAIN TO PREVENT DAMAGE. ANY WORK AND/OR EXISTING FINISHES TO REMAIN DAMAGED
SUSPENDED	1	DAMAGE. ANY WORK AND/OR EXISTING FINISHES TO REMAIN DAMAGED DURING THE REMOVAL OF EXISTING WORK OR THE INSTALLATION OF NEW
SHEET VINYL	1	WORK SHALL BE REPAIRED, REPLACED, AND REFINISHED BY THE
TREAD	4	RESPONSIBLE TRADE CONTRACTOR TO MATCH THE ORIGINAL CONDITION
TALL STORAGE CABINET	4	AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE OWNER AND ARCHITECT.
	4	13. THE ARCHITECT SHALL REVIEW AND APPROVE LOCATIONS FOR ALL
TACKBOARD (# DENOTES WIDTH; REFER TO INTERIOR ELEVATIONS FOR MOUNTING		JUNCTION BOXES AND RACEWAYS PRIOR TO INSTALLATION OF WIRING /
HEIGHTS)		
TOWEL BAR	1	 EXISTING SITE FEATURES, MATERIALS, AMENITIES, LANDSCAPING, ETC. DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE RESTORED.
TOILET COMPARTMENT	1	REPAIRED, OR REPLACED BY THE RESPONSIBLE TRADE CONTRACTOR(S)
TRENCH DRAIN	1	AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF
TELEPHONE	1	THE OWNER AND ARCHITECT.
TOP OF FINISH FLOOR		15. CONTRACTOR SHALL COORDINATE THE WORK WITH ALL PARTIES INVOLVED SO THAT THE CONSTRUCTION CAN PROCEED SMOOTHLY.
THICK		WITHOUT TRADE INTERFERENCE OR WASTE OF TIME AND MATERIAL.
TOILET PAPER	1	16. WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE
TOILET PAPER DISPENSER	1	PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS
THERMOPLASTIC OLEFIN	4	AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURD ASPESTOS CONTAINING MATERIALS UNLESS THAT PERSON
TERRAZZO	4	MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN
TACK STRIP (# DENOTES WIDTH; REFER TO		ACCORDANCE WITH SPECIFICATIONS(S) CONTAINED IN THE PROJECT
INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS)		DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF
TELEVISION	1	HEALTH RULES AND REGULATIONS.
TYPICAL	1	
UNDER COUNTER	1	
UNLESS NOTED OTHERWISE	1	
URINAL	1	
URINAL URINAL SCREEN	1	
VAPOR BARRIER	1	
VINYL BASE	1	
RECESSED VOLLYBALL FLOOR SLEEVE	1	
	1	
	1	
	RECESSED VOLLYBALL FLOOR SLEEVE VOLUME CONTROL VINYL COMPOSITION TILE	VOLUME CONTROL



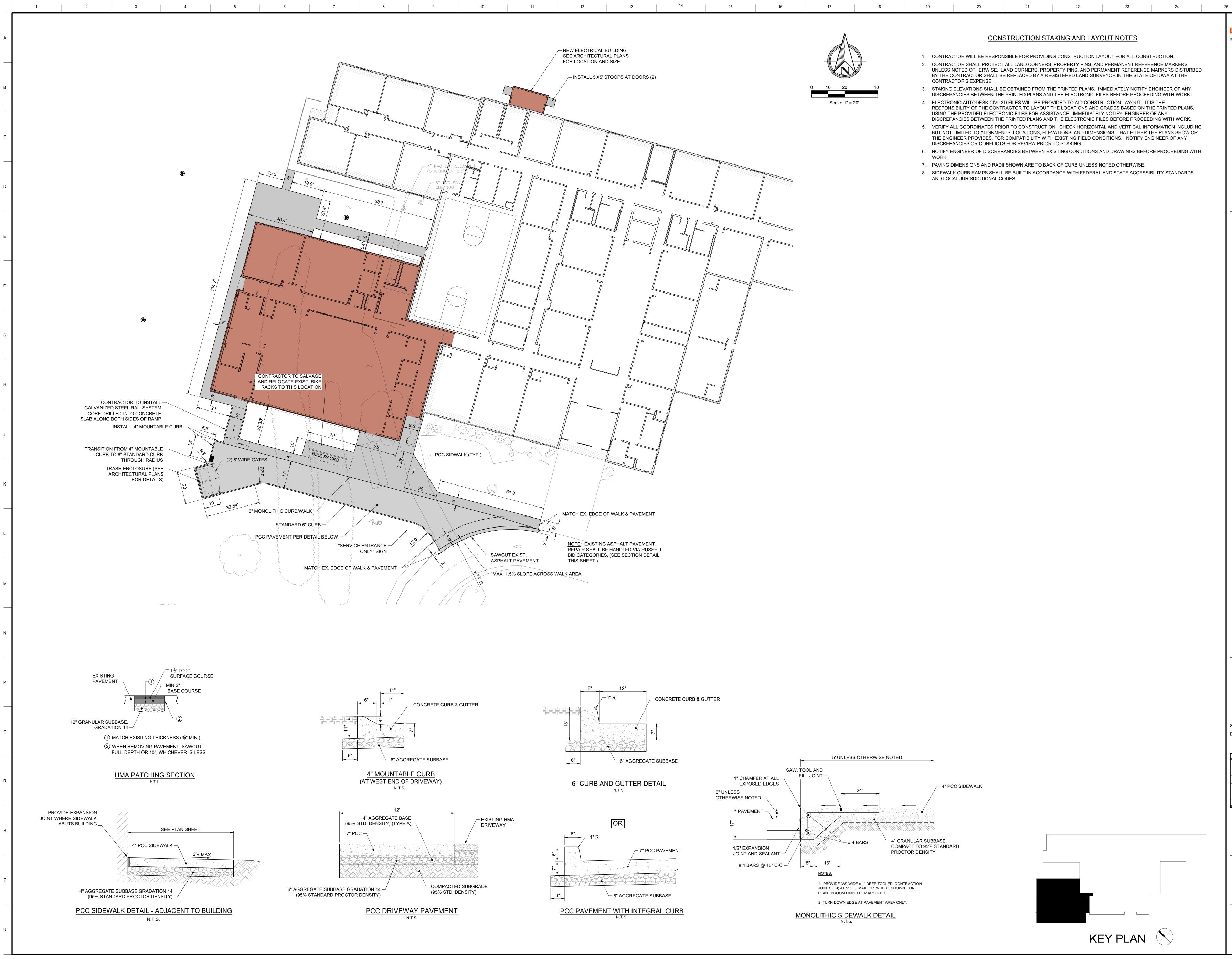


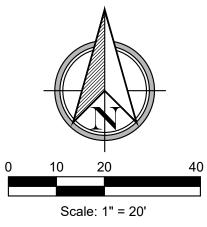




\bigcirc	SANITARY MANHOLE
Τ	TELEPHONE PEDESTAL
Y	FIRE HYDRANT
\bowtie	WATER VALVE
\sim	FLAG POLE
SAN	SANITARY SEWER
ST	STORM SEWER
	WATER LINE
FOC	FIBER OPTIC / TELE LIN
	CONTOUR
	OUTLINE TREE GROUP

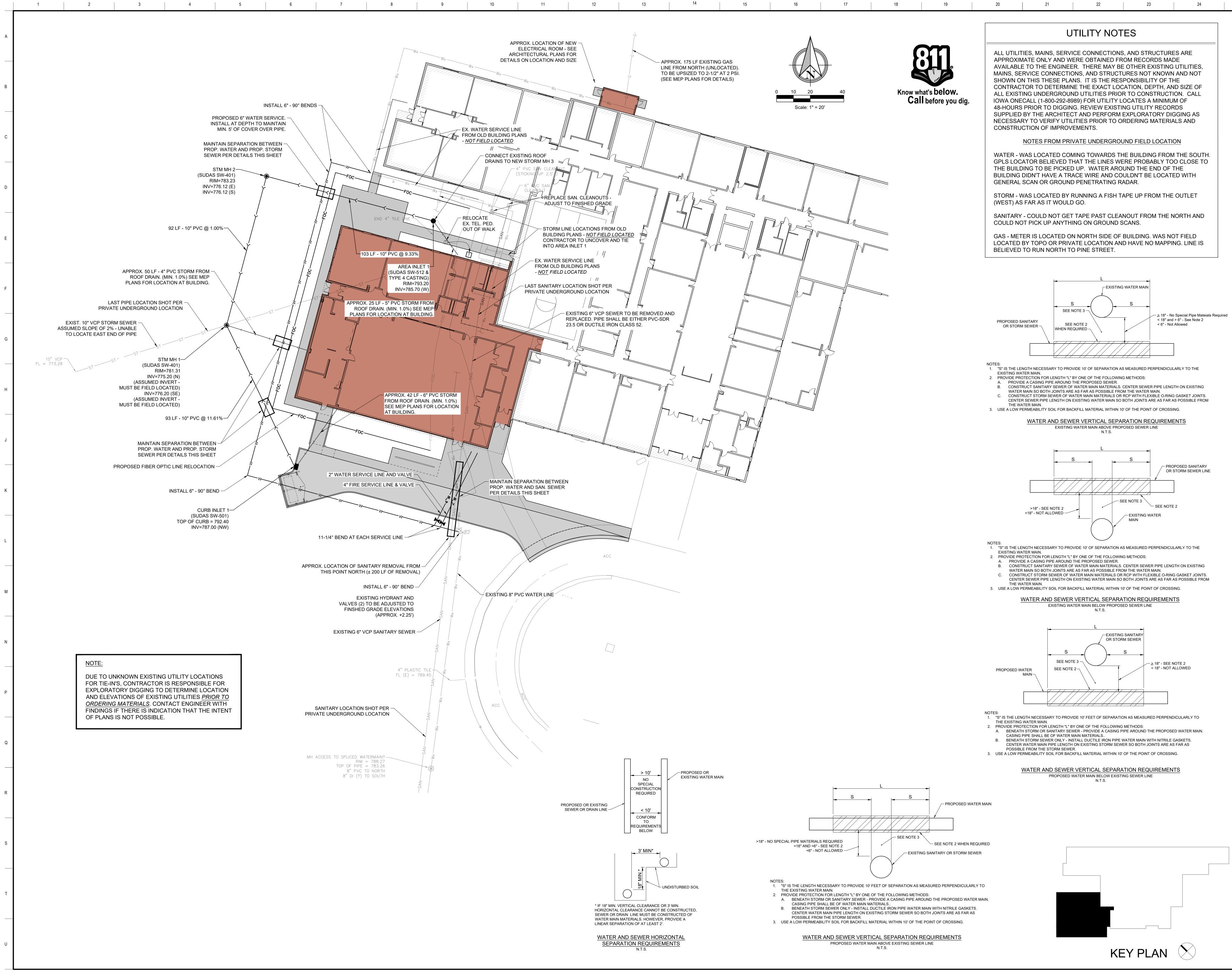
	PRESENT NEAR CADDA & GROVE ST. INTERSECTION
LEPHONE:	CABLE AND FIBER PRESENT - SEE PLAN
	IN THE VICINITY - POSSIBLY N. OF SCHOOL
IT & POWER:	NORTHWEST OF PROPERTY
	NEAR CADDA & GROVE ST. INTERSECTION AND SOUTH/EAST OF SCH





- UNLESS NOTED OTHERWISE. LAND CORNERS, PROPERTY PINS, AND PERMANENT REFERENCE MARKERS DISTURBED
- 5. VERIFY ALL COORDINATES PRIOR TO CONSTRUCTION. CHECK HORIZONTAL AND VERTICAL INFORMATION INCLUDING
- 6. NOTIFY ENGINEER OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH







ALL UTILITIES, MAINS, SERVICE CONNECTIONS, AND STRUCTURES ARE APPROXIMATE ONLY AND WERE OBTAINED FROM RECORDS MADE AVAILABLE TO THE ENGINEER. THERE MAY BE OTHER EXISTING UTILITIES, MAINS, SERVICE CONNECTIONS, AND STRUCTURES NOT KNOWN AND NOT SHOWN ON THIS THESE PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION, DEPTH, AND SIZE OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. CALL IOWA ONECALL (1-800-292-8989) FOR UTILITY LOCATES A MINIMUM OF 48-HOURS PRIOR TO DIGGING. REVIEW EXISTING UTILITY RECORDS SUPPLIED BY THE ARCHITECT AND PERFORM EXPLORATORY DIGGING AS NECESSARY TO VERIFY UTILITIES PRIOR TO ORDERING MATERIALS AND CONSTRUCTION OF IMPROVEMENTS.

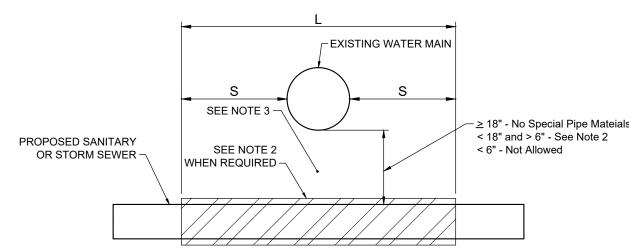
NOTES FROM PRIVATE UNDERGROUND FIELD LOCATION

WATER - WAS LOCATED COMING TOWARDS THE BUILDING FROM THE SOUTH. GPLS LOCATOR BELIEVED THAT THE LINES WERE PROBABLY TOO CLOSE TO THE BUILDING TO BE PICKED UP. WATER AROUND THE END OF THE BUILDING DIDN'T HAVE A TRACE WIRE AND COULDN'T BE LOCATED WITH GENERAL SCAN OR GROUND PENETRATING RADAR.

STORM - WAS LOCATED BY RUNNING A FISH TAPE UP FROM THE OUTLET (WEST) AS FAR AS IT WOULD GO.

SANITARY - COULD NOT GET TAPE PAST CLEANOUT FROM THE NORTH AND COULD NOT PICK UP ANYTHING ON GROUND SCANS.

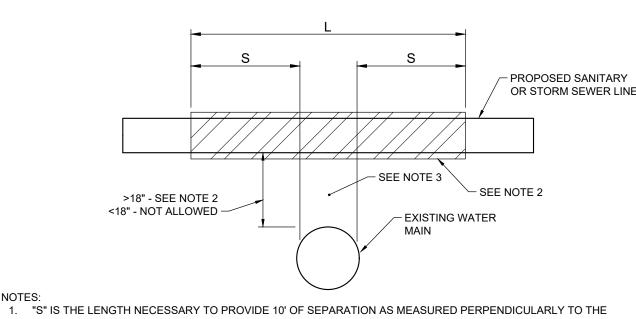
GAS - METER IS LOCATED ON NORTH SIDE OF BUILDING. WAS NOT FIELD LOCATED BY TOPO OR PRIVATE LOCATION AND HAVE NO MAPPING. LINE IS BELIEVED TO RUN NORTH TO PINE STREET.



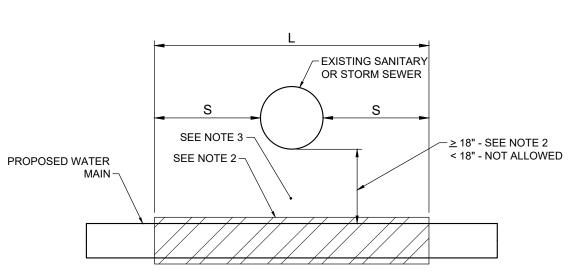
1. "S" IS THE LENGTH NECESSARY TO PROVIDE 10' OF SEPARATION AS MEASURED PERPENDICULARLY TO THE EXISTING WATER MAIN. 2. PROVIDE PROTECTION FOR LENGTH "L" BY ONE OF THE FOLLOWING METHODS:

- A. PROVIDE A CASING PIPE AROUND THE PROPOSED SEWER. CONSTRUCT SANITARY SEWER OF WATER MAIN MATERIALS. CENTER SEWER PIPE LENGTH ON EXISTING WATER MAIN SO BOTH JOINTS ARE AS FAR AS POSSIBLE FROM THE WATER MAIN. C. CONSTRUCT STORM SEWER OF WATER MAIN MATERIALS OR RCP WITH FLEXIBLE O-RING GASKET JOINTS. CENTER SEWER PIPE LENGTH ON EXISTING WATER MAIN SO BOTH JOINTS ARE AS FAR AS POSSIBLE FROM THE WATER MAIN.
- 3. USE A LOW PERMEABILITY SOIL FOR BACKFILL MATERIAL WITHIN 10' OF THE POINT OF CROSSING.



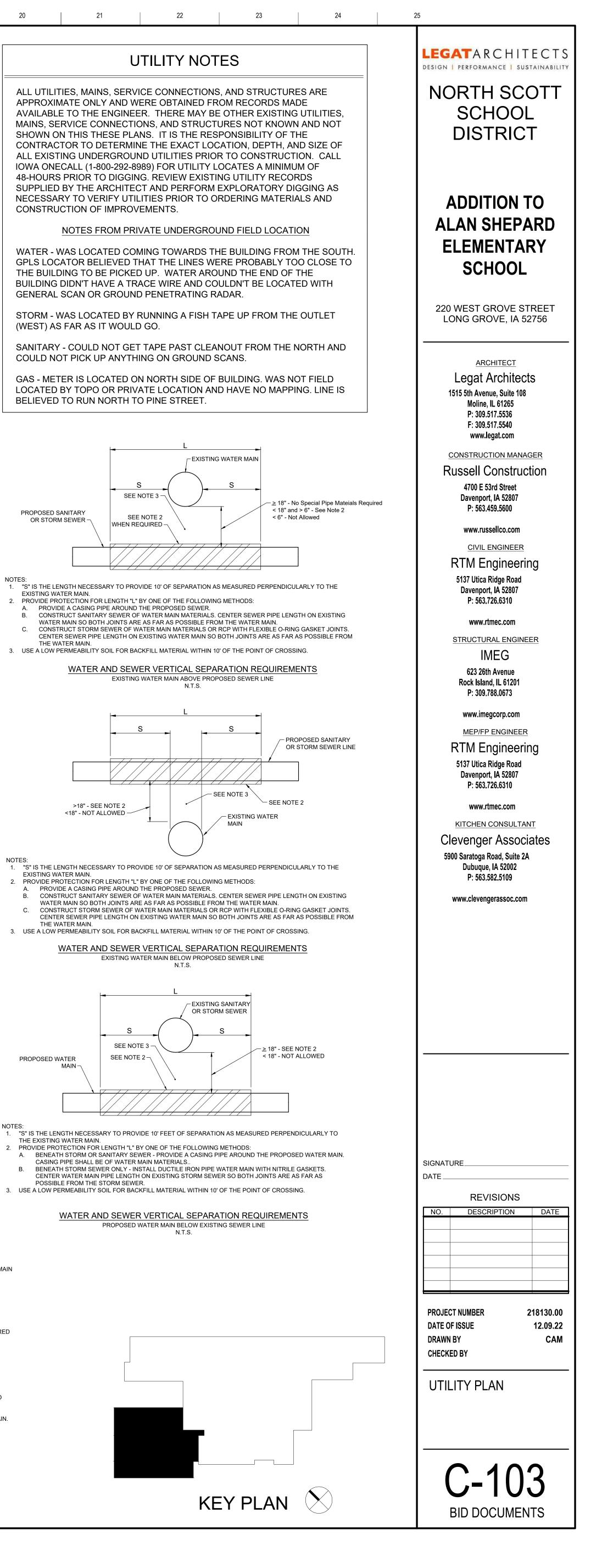


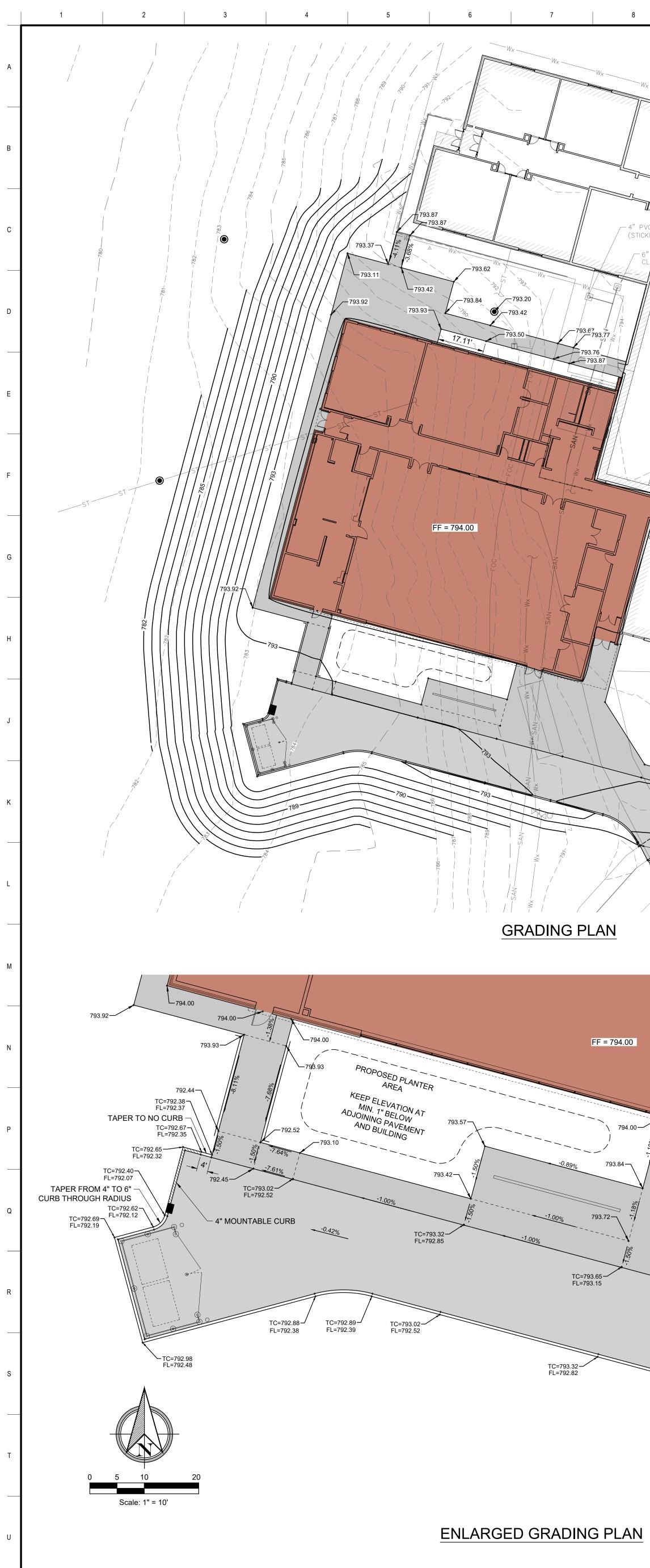
- EXISTING WATER MAIN. 2. PROVIDE PROTECTION FOR LENGTH "L" BY ONE OF THE FOLLOWING METHODS: PROVIDE A CASING PIPE AROUND THE PROPOSED SEWER.
- B. CONSTRUCT SANITARY SEWER OF WATER MAIN MATERIALS. CENTER SEWER PIPE LENGTH ON EXISTING WATER MAIN SO BOTH JOINTS ARE AS FAR AS POSSIBLE FROM THE WATER MAIN. C. CONSTRUCT STORM SEWER OF WATER MAIN MATERIALS OR RCP WITH FLEXIBLE O-RING GASKET JOINTS. CENTER SEWER PIPE LENGTH ON EXISTING WATER MAIN SO BOTH JOINTS ARE AS FAR AS POSSIBLE FROM THE WATER MAIN.
- 3. USE A LOW PERMEABILITY SOIL FOR BACKFILL MATERIAL WITHIN 10' OF THE POINT OF CROSSING. WATER AND SEWER VERTICAL SEPARATION REQUIREMENTS



1. "S" IS THE LENGTH NECESSARY TO PROVIDE 10' FEET OF SEPARATION AS MEASURED PERPENDICULARLY TO THE EXISTING WATER MAIN. 2. PROVIDE PROTECTION FOR LENGTH "L" BY ONE OF THE FOLLOWING METHODS: A. BENEATH STORM OR SANITARY SEWER - PROVIDE A CASING PIPE AROUND THE PROPOSED WATER MAIN. CASING PIPE SHALL BE OF WATER MAIN MATERIALS. BENEATH STORM SEWER ONLY - INSTALL DUCTILE IRON PIPE WATER MAIN WITH NITRILE GASKETS. CENTER WATER MAIN PIPE LENGTH ON EXISTING STORM SEWER SO BOTH JOINTS ARE AS FAR AS POSSIBLE FROM THE STORM SEWER.

WATER AND SEWER VERTICAL SEPARATION REQUIREMENTS





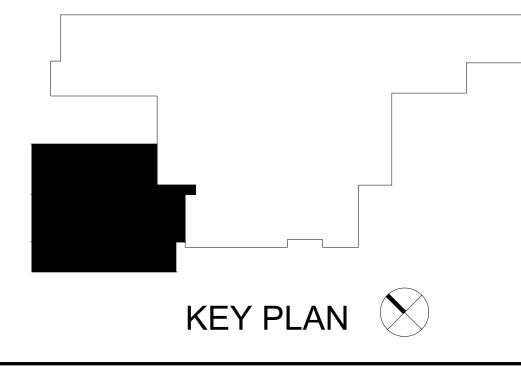
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 ELEC. ROOM ADDITION ADDED TO PROJECT POST SURVEY, SO NO EX. GROUND ELEVATION INFORMATION IS AVAILABLE. CONTRACTOR TO GRADE AS NECESSARY TO PROMOTE DRAINAGE RUN-OFF AWAY FROM BUILDING. Scale: 1" = 20' _____ 4" PVC (STICKIN - LAN \mathcal{U} 793.18 EX 792 89 FX -792.83 EX -792.44 EX ∕___791.93 EX 791.79 EX 701 71 FY 791.62 EX **─**793.94 794 00-793.82 0.57% -1.30% TC=793.90 FL=793.40 MATCH EXISTING ELEV. -TC=793.58 FL=793.08 - HIGH POINT TC=793.57 FL=793.07 -792.96 TC=792.91-FL=792.41 -792.36 792.88 ∕_792.44 EX TC=792.34 -792.27 FL=791.84 TAPER TO NO CURB -~791.93 EX ─ MAX. 1.5% CROSS-SLOPE ON WALK THROUGH DRIVEWAY TC=791.79-FL=791.79 MATCH EXISTING ELEV. —791.62 EX

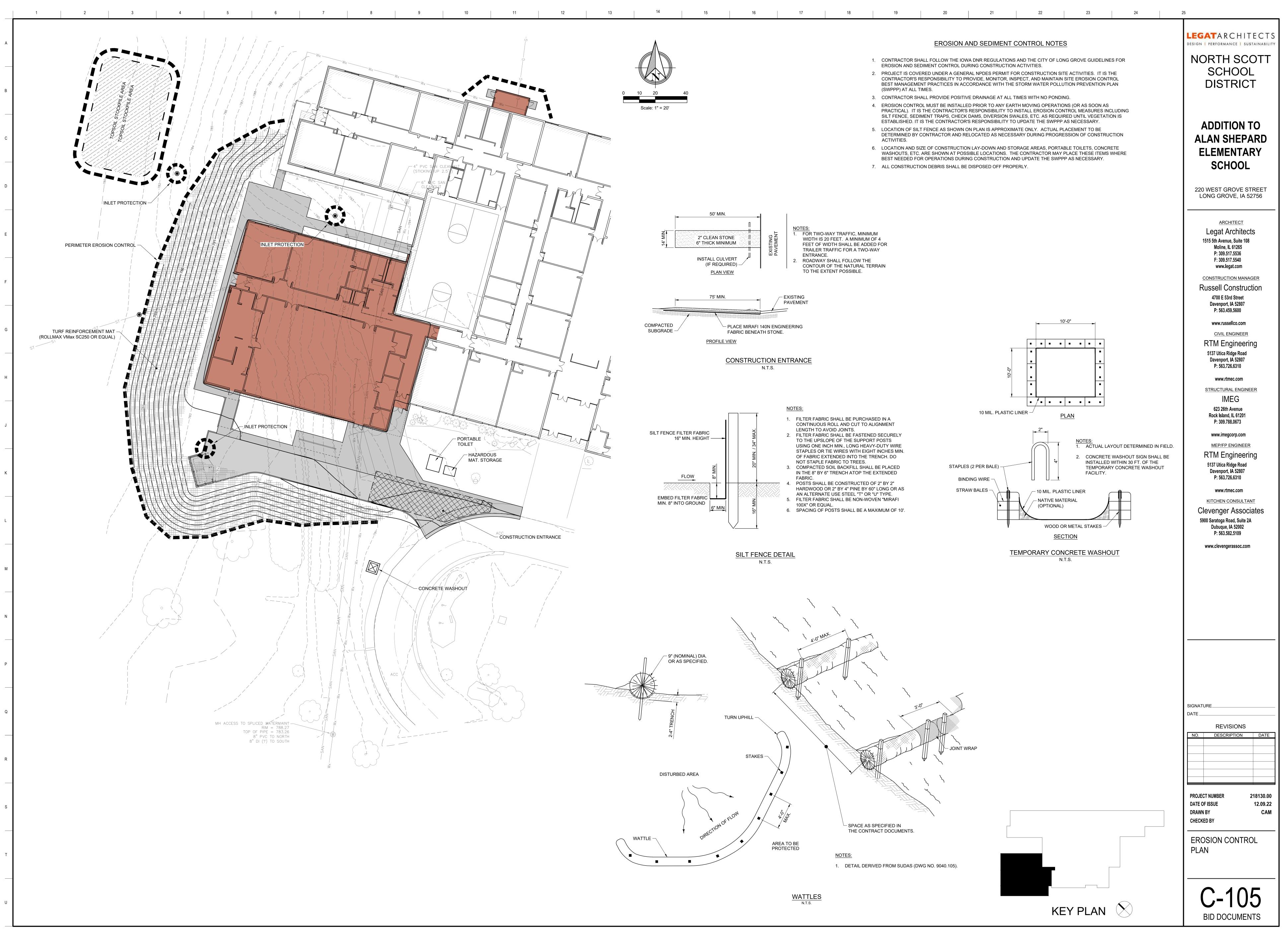


-793.18 E

792.89 EX -792.83 EX







	DESIGN CRITERIA	EARTHWO
A	 STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH: IBC 2015 ASCE 7 10 	 FOUNDATION DESIGN IS BASED ON THE GEOTECHN TEAM SERVICES. REPORT IS ON FILE WITH THE ARC SOIL PROPERTIES PER THE GEOTECHNICAL REPORT
	ASCE 7-10 ACI 318-14 AISC 360-10	ALLOWABLE NET SOIL BEARING PRESSURE: FOOTINGS
	2. RISK CATEGORY III TYPICAL ROOF 20 PSF (REDUCIBLE) MECHANICAL 100 PSF (UNREDUCIBLE)	FROST DEPTH 3. CONTRACTOR SHALL PROVIDE FOR DE-WATERING (
	3. SNOW: GROUND SNOW 25 PSF	WATER, GROUND WATER OR SEEPAGE. FREE GROU IN THE BORINGS. DETAILS OF GROUND WATER INFO THE ABOVE-MENTIONED GEOTECHNICAL REPORT. II
В	SNOW EXPOSURE FACTOR1.0THERMAL FACTOR1.0IMPORTANCE FACTOR1.1	DURING EXCAVATION, SPECIAL PROCEDURES SHAL RECOMMENDED BY THE GEOTECHNICAL ENGINEER HIGHLY SUSCEPTIBLE TO DISTURBANCE, ESPECIALL
	FLAT-ROOF SNOW22 PSFDESIGN SNOW22 PSF	4. CARE SHALL BE EXERCISED WHEN EXCAVATING OR STRUCTURES OR IMPROVEMENTS TO NOT DAMAGE
	4. SEISMIC: SEISMIC DESIGN CATEGORY C IMPORTANCE FACTOR 1.25	 WALLS, SLABS, UTILITIES, ETC. 5. CONTRACTOR SHALL INVESTIGATE SITE DURING CLI OPERATIONS FOR FILL MATERIAL OR BURIED STRUCT
С	SOIL CLASS E Ss 0.103 g	CISTERNS AND FOUNDATIONS. IF ANY SUCH MATER ARCHITECT/ENGINEER SHALL BE NOTIFIED IMMEDIA UTILITIES AND OTHER STRUCTURES THAT INTERFER
	S1 0.059 g Sds 0.165 g Sd1 0.165 g	 BE REMOVED. 6. ALL FOOTINGS AND SLABS ON GRADE SHALL BE PLA OR CONTROLLED COMPACTED FILL, REMOVING ANY
	SEISMIC FORCE RESISTING SYSTEM ORDINARY REINFORCED MASONRY SHEAR WALLS R 2 Cd 1 3/4	OR UNSUITABLE SOILS, AS RECOMMENDED BY THE NATURAL SOIL SHALL BE PROOF ROLLED BELOW SL 7. THE PREPARATION OF THE SUBGRADE FOR THE SL/
D	Ωo2 1/2ANALYSIS PROCEDUREEQUIVALENT LATERAL FORCE	ACCORDANCE WITH THE PROJECT GEOTECHNICAL CONTRACTOR SHALL DIRECT QUESTIONS REGARDI
D	DESIGN BASE SHEAR, STRENGTH V = Cs x W = 0.103 x W KIPS, E-W AND N-S LEVEL 5. WIND:	 REQUIREMENTS TO THE GEOTECHNICAL ENGINEER 8. FOUNDATION ELEVATIONS SHOWN DESIGNATE A MI SOIL BEARING PRESSURE IS EXPECTED. FOOTINGS,
	BASIC WIND SPEEDV ULT = 115 MPHIMPORTANCE FACTOR1.15EXPOSURE CLASS0	LOWERED OR EXTENDED AS REQUIRED TO REACH S PRESSURE. 9. THE MOISTURE CONTENT OF ONSITE CLAYEY SOILS
	EXPOSURE CLASS C INTERNAL PRESSURE COEFFICIENT, ± 0.18 GCpi	BE BETWEEN 2-3% ABOVE OPTIMUM MOISTURE CON 10. ANY REQUIRED IMPORT FILL SOIL SHALL HAVE A LON SHALL BE APPROVED BY THE GEOTECHNICAL ENGIN
Е	ROOF COMPONENTS: ZONE 1 ZONE 2 ZONE 3 SUPPORT BEAMS (A > 100 SF) 35.9 PSF 60.7 PSF 82.7 PSF WALL SHEATHING (A = 50 SF) 38.9 PSF 51.6 PSF 64.6 PSF	11. THE PREPARATION OF THE SUBGRADE FOR THE SL/ ACCORDANCE WITH THE PROJECT GEOTECHNICAL CONTRACTOR SHALL DIRECT QUESTIONS REGARDI
	DECK FASTENERS (A \leq 10 SF)46.0 PSF43.8 PSF56.8 PSFWALL COMPONENTS:ZONE 4ZONE 5A = 200 SF23.6 PSF25.1 PSF	REQUIREMENTS TO THE GEOTECHNICAL ENGINEER 12. AS STATED IN THE GEOTECHNICAL REPORT, THERE FEET OF FILL TO ACHIEVE THE DESIRED FINAL GRAD
	$A = 200 \text{ SF}$ 23.0 FSF 23.1 FSF $A = 50 \text{ SF}$ 25.9 PSF 29.8 PSF $A \le 20 \text{ SF}$ 28.6 PSF 35.2 PSF	OR MORE IN THICKNESS), ADD FILL TO BUILDING PAI WEEKS FOR FILL TO SURCHARGE AND SETTLE THE
F	C & C NOTES: a. THE PRESSURES LISTED ARE IN ACCORDANCE IBC AND ASCE 7, AND THE DESIGN FORCES USED BY THE SUBCONTRACTOR FOR A SPECIFIC APPLICATION ARE THE	SETTLEMENT OVER THIS TIME PERIOD. AFTER SETT FOR PERIMETER WALLS. 13. FOUNDATION ELEVATIONS SHOWN DESIGNATE A MI
	RESPONSIBILITY OF THE SUBCONTRACTOR. b. WIND PRESSURES ARE ULTIMATE DESIGN LEVEL.	SOIL BEARING PRESSURE IS EXPECTED. FOOTINGS, LOWERED OR EXTENDED AS REQUIRED TO REACH S PRESSURE.
	 c. SEE ASCE 7 FOR ZONE DEFINITIONS AND EXTENT OF ZONES. d. SUBMIT DESIGN CALCULATIONS PREPARED BY A QUALIFIED PROFESSIONAL STRUCTURAL ENGINEER, REGISTERED IN THE STATE WHERE THE PROJECT IS 	REINFORCING
	LOCATED, FOR ANY DESIRED MODIFICATION TO THE STATED PRESSURES. 6. ALL LATERAL LOAD RESISTANCE AND STABILITY OF THE BUILDING IN THE COMPLETED STRUCTURE IS PROVIDED BY SHEAR WALLS IN EACH ORTHOGONAL DIRECTION. SEE	1. ALL REINFORCING STEEL SHALL BE DETAILED AND F AMERICAN CONCRETE INSTITUTE "ACI DETAILING MA
G	PLANS FOR LOCATIONS. THE ROOF DECKS SERVE AS HORIZONTAL DIAPHRAGMS DISTRIBUTING THE LATERAL FORCES TO THE VERTICAL LATERAL ELEMENTS WHICH IN TURN CARRY THE LOAD TO THE BUILDING FOUNDATIONS.	OTHERWISE SHOWN, NOTED OR SPECIFIED. 2. CONCRETE REINFORCING STEEL SHALL BE HIGH ST CONFORMING TO THE FOLLOWING STANDARDS:
	GENERAL	DEFORMED BARS ASTM A615, GF WELDED WIRE REINFORCING ASTM A1064 3. MINIMUM CONCRETE COVER SHALL BE PROVIDED A
	 DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND PROPERTY ON AND AROUND THE JOBSITE. THE 	REINFORCING BARS: CAST AGAINST AND PERMANENTLY IN CONTACT WI
Н	CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING, GUYS, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES. 2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE	EXPOSED TO WEATHER OR IN CONTACT WITH GROU #6 BARS OR LARGER #5 BARS OR SMALLER
	GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL	NOT EXPOSED TO WEATHER OR IN CONTACT WITH SLABS, JOIST AND WALLS WITH #14 AND #18 BARS
	BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE	SLABS, JOISTS AND WALLS WITH #11 BARS OR SMAI BEAMS, COLUMNS, PEDESTALS AND TENSION TIES COLUMN VERTICAL BARS
	CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT. 3. STRUCTURAL SUBSTITUTIONS MAY BE ALLOWED WITH THE APPROVAL OF THE	BOUNDARY ELEMENTS 4. SUPPORTS FOR REINFORCEMENT SHALL HAVE CLA CRSI MANUAL OF STANDARD PRACTICE, UNLESS OT
J	STRUCTURAL ENGINEER. SUPPLIER SHALL PROVIDE SEALED DESIGN CALCULATIONS OR SUITABLE PRODUCT LITERATURE FOR THE COMPONENTS. 4. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE	 ALL WELDED WIRE REINFORCING (WWR) SHALL BE I ENDS.
	JOBSITE PRIOR TO CONSTRUCTION, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT	6. CONTINUOUS HORIZONTAL REINFORCING SHALL BE AND DIRECTLY OVER SUPPORTS FOR BOTTOM BAR STEEL SHALL BE BENT DOWN 12 BAR DIAMETERS OF
	DOCUMENTS, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION. 5. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR	GREATER. 7. WHERE REINFORCEMENT LENGTH IS SPECIFIED, NC SPECIFIED LENGTH WITHOUT APPROVAL BY THE ST
К	OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK. 6. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR	8. DOWELS BETWEEN FOOTINGS AND WALLS OR COLU SIZE AND SPACING OR NUMBER AS THE VERTICAL F OTHERWISE NOTED. PROVIDE FOUNDATION DOWEL
	STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL,	WALL OR COLUMN REINFORCEMENT. EXTEND DOW OR COLUMN AND TERMINATE WITH STANDARD HOC
	MECHANICAL AND ELECTRICAL DESIGN. 7. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL	OTHERWISE NOTED. 9. REINFORCING IN WALL FOOTINGS AND GRADE BEAI DEVELOPED (Ld) INTO COLUMN FOOTINGS.
	NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK. 8. DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO	 CUTTING OF REINFORCING WHICH CONFLICTS WITH NOT ACCEPTABLE. REINFORCING BARS SHALL BE BENT COLD, AND NO
L	DETERMINE FINAL DIMENSION WITH ARCHITECT. 9. TYPICAL DETAILS SHALL APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE	USED WHICH WOULD BE INJURIOUS TO THE MATER NOT PERMITTED. 12. FIELD WELDING OR BENDING OF REINFORCING IS N
	THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. 10. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT	ON THE DRAWINGS OR AS APPROVED BY THE STRU 13. USE TEMPLATES TO SET ALL EMBEDDED ANCHOR E BARS AS REQUIRED OR INDICATED ON THE DRAWIN
	INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO,	14. SUBMIT SHOP DRAWINGS FOR FABRICATION AND P INCLUDE SCHEDULES AND DIAGRAMS OF BENT BAR
Μ	BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DO NOT IN ANY WAY	REINFORCEMENT, INCLUDING CONCRETE COVER. S BE FOR COMPLIANCE WITH DESIGN REQUIREMENTS RESPONSIBLE FOR VERIFYING DIMENSIONS AND QU
	RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES FOR THE ABOVE. 11. SEE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR DETAILS, CONDITIONS, PITS, TRENCHES, PADS, DEPRESSIONS, ROOF/FLOOR OPENINGS, STAIRS,	15. ALL CONCRETE NOT OTHERWISE SPECIFIED SHALL REQUIREMENT OF ACI 318.
	SLEEVES, ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS. 12. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL AND	CAST-IN-PLACE (1. ALL CONCRETE WORK SHALL CONFORM TO THE CO
	PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPE, INSERTS AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.	AMERICAN CONCRETE INSTITUTE PUBLICATIONS: A 308.1, ACI 318 AND SP-066, UNLESS OTHERWISE NO 2. CONCRETE MATERIALS SHALL CONFORM TO:
Ν	13. NO HOLES, NOTCHES, BLOCK-OUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE	CEMENT ASTMO FLY ASH ASTMO
	STRUCTURAL ENGINEER. 14. PENETRATIONS SHALL BE CAST-IN-PLACE AND SHALL NOT BE PERMITTED EXCEPT AS SHOWN IN THE STRUCTURAL DRAWINGS.	FINE AND COARSE AGGREGATE ASTM (LIGHTWEIGHT AGGREGATE ASTM (WATER POTAB
	15. BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, EACH PARTY SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH CONDITIONS IN FIELD, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE PROPOSAL	AIR-ENTRAINING ADMIXTURE ASTM (WATER REDUCING ADMIXTURE ASTM (3. CONCRETE STRENGTHS SHALL CONFORM TO:
Ρ	SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK.	INTENDED USE
	SUBMITTALS ADE:	FOOTINGS FOUNDATIONS SLAB ON GRADE
	 SUBMITTALS ARE: a. CONCRETE MIX DESIGNS b. MATERIAL PRODUCT DATA FOR STRUCTURAL MATERIALS 	UNLESS OTHERWISE NOTED 4. NORMAL-WEIGHT 28-DAY STRENGTH UNLESS OTHE
Q	 c. CONCRETE AND MASONRY REINFORCING d. STEEL FABRICATION AND MISCELLANEOUS METALS e. JOISTS 	 DRYPACK OR GROUT SHALL HAVE A MINIMUM 28-DA SLAB-ON-GRADE CONSTRUCTION: LOCATE SAW-CU LINES WITH INTERMEDIATE JOINTS SPACED PER TH
8	f. STEEL DECK2. SUBMITTALS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE	NOTED. SLAB PANELS SHALL HAVE A MAXIMUM LEN PROVIDE ADDITIONAL CONTROL JOINTS AT ALL RE-I SPECIAL CASES.
	ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND REVIEW BY THE ARCHITECT SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN	THICKNESS (IN) MAX 5
	WITHOUT REVIEW BY THE ARCHITECT/STRUCTURAL ENGINEER. 3. SUBMITTALS SHALL BE REVIEWED BY THE ARCHITECT/STRUCTURAL ENGINEER FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE	 CROSS REFERENCE ARCHITECTURAL AND STRUCT DIMENSIONS AND PLACEMENT OF ALL ANCHOR BOL OF WALLS/FOUNDATIONS PRIOR TO PLACING CONC
R	ARCHITECT/STRUCTURAL ENGINEER ON THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS. 4. FOR ADDITIONAL INFORMATION ON REQUIRED SUBMITTALS, SEE INDIVIDUAL MATERIAL	 UNLESS OTHERWISE NOTED, ALL FOOTINGS SHALL OR COLUMNS. CONSTRUCTION JOINTS SHALL BE THOROUGHLY ROOT AND A DECEMBER OF A DECEMBER O
	SECTIONS.	SAND BLASTING OR MECHANICAL MEANS. CLEAN BI APPROVED BY THE STRUCTURAL ENGINEER. SUBM JOINTS NOT INDICATED ON DRAWINGS FOR APPROV
	EXISTING CONDITIONS / DEMOLITION 1. EXISTING CONDITIONS:	10. PRIOR TO PLACING CONCRETE, THE CONTRACTOR EMBEDMENTS, INCLUDING COLUMN ANCHOR BOLTS
S	 a. EXISTING STRUCTURAL INFORMATION SHOWN WAS OBTAINED FROM EXISTING DRAWINGS: i. DATED 01.17.1966 BY TRI-STATE AERO-ENGINEERING COMPANY. 	SECURELY TIED IN PLACE. 11. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICA CONCRETE BEFORE PLACING. SECURE SLEEVES TO PLACING OPERATIONS OF MERCURANICAL AND FLECT
	ii. DATED 10.06.1969 BY STEWART-ROBINSON-LAFFAN ARCHICTECTS.b. ALL INFORMATION SHOWN ON THE DRAWINGS RELATIVE TO EXISTING CONDITIONS IS	PLACING OPERATIONS. SEE MECHANICAL AND ELEC 12. CONFIRM WITH ARCHITECT THAT MATERIALS TO BE EMBEDMENT IN CONCRETE.
	GIVEN AS THE BEST PRESENT KNOWLEDGE. CONTRACTOR TO VERIFY EXISTING INFORMATION, DIMENSIONS AND SIZES AS REQUIRED TO COMPLETE THEIR WORK. WHERE ACTUAL CONDITIONS CONFLICT WITH THE DRAWINGS, THEY SHALL BE	 CONDUIT, PIPES, AND SLEEVES EMBEDDED IN CONC REQUIREMENTS OF ACI 318, SECTIONS 20.7 AND 26. DO NOT PLACE VERTICAL CONDUIT IN CONCRETE C
	REPORTED TO THE ARCHITECT OR STRUCTURAL ENGINEER SO PROPER CLARIFICATION MAY BE MADE. MODIFICATION OF CONSTRUCTION DETAILS SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT OR STRUCTURAL	STRUCTURAL ENGINEER. 15. NO ALUMINUM SHALL BE ALLOWED IN THE CONCRE
Т	ENGINEER. 2. ALL DEMOLITION SHALL BE CARRIED OUT IN SUCH A WAY SO AS TO NOT DAMAGE EXISTING ELEMENTS WHICH ARE TO REMAIN.	PREVENT ALUMINUM-CONCRETE REACTION. 16. PROJECTING CORNERS OF BEAMS, WALLS, COLUMI INCH CHAMFER, UNLESS OTHERWISE NOTED ON AF
	 ALL ELEMENTS WHICH ARE TO REMAIN AND WHICH ARE DAMAGED DURING DEMOLITION WORK SHALL BE REPLACED AT NO ADDED COST. EXISTING ELEMENTS ARE TO BE PROTECTED TO THE FULLEST EXTENT POSSIBLE TO REDUCE SUCH DAMAGE TO A 	17. SLOPE SLABS TO DRAINS OR FOR POSITIVE DRAINA PROVIDE DEPRESSIONS WHERE SHOWN ON THE ST DRAWINGS WITHOUT REDUCING THE THICKNESS O
	MINIMUM.	GRADE DEPRESSIONS GREATER THAN 1 INCH, SEE REINFORCING. 18. INTERNALLY VIBRATE ALL CAST-IN-PLACE CONCRET
U		NEED ONLY BE VIBRATED AROUND UNDER FLOOR E VIBRATE TOPS OF COLUMNS.
	4	

THWORK

EOTECHNICAL REPORT DATED 08.05.2022 BY THE ARCHITECT. AL REPORT:

1,500 PSF [DL+LL] 3'-6" [UNHEATED] 1'-6" [HEATED]

ATERING OF EXCAVATIONS FROM SURFACE REE GROUND WATER WAS NOT ENCOUNTERED ATER INFORMATION CAN BE OBTAINED FROM REPORT. IF GROUND WATER SHOULD OCCUR RES SHALL BE IMPLEMENTED AS ENGINEER. AS COHESIVE SOILS AT THIS SITE ARE SPECIALLY WHEN MOIST. ATING OR GRADING ADJACENT TO EXISTING

DAMAGE OR UNDERMINE FOUNDATIONS, URING CLEARING AND EARTHWORK ED STRUCTURES SUCH AS CESSPOOLS, CH MATERIAL OR STRUCTURES ARE FOUND.

IMMEDIATELY. ALL ABANDONED FOUNDATIONS. **INTERFERE WITH NEW CONSTRUCTION SHALL** ALL BE PLACED ONTO FIRM UNDISTURBED SOIL VING ANY EXISTING FILL. ORGANIC MATERIAL.

D BY THE GEOTECHNICAL REPORT. EXPOSED BELOW SLABS ON GRADE. OR THE SLAB ON GRADE SHALL BE IN STRICT ECHNICAL REPORT REFERENCED ABOVE. THE REGARDING THE SUBGRADE PREPARATION ENGINEER.

NATE A MINIMUM DEPTH WHERE AN ADEQUATE OOTINGS, PIERS AND/OR WALLS SHALL BE O REACH SOIL MEETING THE DESIGN BEARING YEY SOILS AT THE TIME OF COMPACTION SHALL

TURE CONTENT. HAVE A LOW POTENTIAL FOR EXPANSION AND CAL ENGINEER PRIOR TO IMPORTING. OR THE SLAB ON GRADE SHALL BE IN STRICT ECHNICAL REPORT REFERENCED ABOVE. THE REGARDING THE SUBGRADE PREPARATION ENGINEER. RT, THERE ARE AREAS THAT REQUIRE UP TO 10

NAL GRADES. FOR DEEP AREAS OF FILL (6 FEET DING PAD ELEVATION AND ALLOW 4 TO 6 TTLE THE EXISTING SOILS BELOW. SURVEY FOR TER SETTLEMENT HAS OCCURRED, EXCAVATE SNATE A MINIMUM DEPTH WHERE TAN ADEQUATE

OOTINGS, PIERS AND/OR WALLS SHALL BE O REACH SOIL MEETING THE DESIGN BEARING

RCING STEEL

LED AND PLACED IN CONFORMANCE WITH THE TAILING MANUAL" (SP-066) EXCEPT AS

BE HIGH STRENGTH NEW E DARDS:	BILLET STEEL
M A615, GR 60	Fy = 60 KSI
M A1064	Fy = 65 KSI
ROVIDED AS FOLLOWS TO	THE OUTERMOST
NTACT WITH GROUND WITH GROUND	3"
	2"
	1 1/2"
ACT WITH GROUND	
\$18 BARS	1 1/2"
S OR SMALLER	3/4"

1 1/2" HAVE CLASS 2 PROTECTION AS DEFINED IN THE NLESS OTHERWISE NOTED. SHALL BE LAPPED 2 PANELS AT EDGES AND

1 1/2"

SHALL BE LAPPED AT MIDSPAN FOR TOP BARS FTOM BARS. AT DISCONTINUOUS ENDS, THE TOP METERS OR 12" MINIMUM, WHICHEVER IS

CIFIED, NO SPLICES ARE PERMITTED WITHIN THE BY THE STRUCTURAL ENGINEER. S OR COLUMNS SHALL BE THE SAME GRADE, ERTICAL REINFORCING, RESPECTIVELY, UNLESS ON DOWELS TO MATCH SIZE AND SPACING OF END DOWELS A LAP SPLICE LENGTH INTO WALL DARD HOOK AT BOTTOM OF FOOTING, UNLESS RADE BEAMS BETWEEN COLUMNS SHALL BE

LICTS WITH EMBEDDED OBJECTS OR SLEEVES IS , AND NO METHOD OF FABRICATION SHALL BE

HE MATERIAL. HEATING OF BARS FOR BENDING IS RCING IS NOT PERMITTED EXCEPT AS INDICATED THE STRUCTURAL ENGINEER.

ANCHOR BOLTS, LEVELING PLATES, AND DOWEL = DRAWINGS ON AND PLACEMENT OF REINFORCING STEEL BENT BARS AND SHOW ARRANGEMENT OF E COVER. STRUCTURAL ENGINEER'S REVIEW WILL

IREMENTS. THE CONTRACTOR SHALL BE IS AND QUANTITIES. ED SHALL BE REINFORCED TO THE MINIMUM

ACE CONCRETE

TO THE CORRESPONDING EDITION OF THE ATIONS: ACI 117, ACI 301, ACI 305.1, ACI 306.1, ACI RWISE NOTED.

ASTM C150, TYPE I OR II ASTM C618, TYPE C OR F ASTM C33

ASTM C330	
POTABLE	
ASTM C260	
ASTM C494	

M TO:		
	STRENGTH (PSI)	EXPOSURE
		CLASS
	3000	F2, S0, C1, W0
	4000	F2, S0, C1, W0
	4000	F1, S0, C1, W0
	4000	N/A

ESS OTHERWISE NOTED. IMUM 28-DAY STRENGTH OF 7000 PSI.

E SAW-CUT CONTROL JOINTS ALONG COLUMN ED PER THE TABLE BELOW, UNLESS OTHERWISE IMUM LENGTH TO WIDTH RATIO OF 1.5:1. AT ALL RE-ENTRANT CORNERS. SEE PLAN FOR

MAXIMUM JOINT SPACING EACH WAY (FT) D STRUCTURAL DRAWINGS TO ENSURE PROPER

CHOR BOLTS, INSERTS, NOTCHES, AND EDGES ING CONCRETE. IGS SHALL BE CENTERED UNDER WALLS, PIERS

DUGHLY ROUGHENED TO 1/4" AMPLITUDE BY CLEAN BEFORE POUR. LOCATION TO BE R. SUBMIT LOCATION PLAN OF ALL PROPOSED OR APPROVAL PRIOR TO BEGINNING WORK. RACTOR SHALL ENSURE ALL REINFORCING AND

IOR BOLTS, ARE PROPERLY LOCATED AND ECTRICAL PENETRATIONS THROUGH LEEVES TO PREVENT MOVEMENT DURING AND ELECTRICAL DRAWINGS FOR LOCATIONS. IALS TO BE EMBEDDED ARE SUITABLE FOR

ED IN CONCRETE SHALL CONFORM TO 7 AND 26.8. NCRETE COLUMNS WITHOUT APPROVAL OF THE

CONCRETE WORK UNLESS COATED TO S, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4

TED ON ARCHITECTURAL DRAWINGS. VE DRAINAGE IF NO DRAINS ARE PRESENT AND ON THE STRUCTURAL AND/OR ARCHITECTURAL KNESS OF SLAB INDICATED. FOR SLAB-ON-INCH, SEE DETAILS FOR ADDITIONAL

CONCRETE EXCEPT SLABS-ON-GRADE WHICH R FLOOR DUCTS AND OTHER EMBEDDED ITEMS.

HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING AND OTHER EMBEDDED 21. CONCRETE SLABS SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 7 DAYS. FORMS FOR CONCRETE WALLS SHALL BE LEFT IN PLACE FOR 7 DAYS OR MAY BE STRIPPED AFTER 3 DAYS AND COATED WITH AN APPROVED CURING COMPOUND. 22. NO LOADS SHALL BE PLACED ON STRUCTURAL CONCRETE SLABS WITHIN 7 DAYS AFTER CONCRETE IS PLACED. AFTER CONCRETE IS PLACED, IN NO CASE SHALL THE SUPERIMPOSED CONSTRUCTION LOADS BE GREATER THAN SPECIFIED DESIGN LIVE LOADS, UNLESS THE WORK IS SHORED. 23. THE DESIGN AND ENGINEERING OF FORMWORK, SHORING AND RESHORING, AS WELL AS THEIR CONSTRUCTION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FORMS SHALL BE DESIGNED TO HAVE SUFFICIENT STRENGTH TO SAFELY WITHSTAND THE LOADS RESULTING FROM PLACEMENT AND VIBRATION OF THE CONCRETE AND SHALL ALSO BE DESIGNED FOR SUFFICIENT RIGIDITY TO MAINTAIN SPECIFIED TOLERANCES, CONTRACTOR SHALL SUBMIT DETAILED FORMWORK SHOP DRAWINGS TO THE ARCHITECT TO BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN CONCEPT ONLY. 24. CORING OF CONCRETE IS NOT PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER. 25. NO CONCRETE SHALL BE PLACED ONTO OR AGAINST SUBGRADES CONTAINING FREE WATER, FROST, ICE OR SNOW. 26. GENERAL CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SIZE, LOCATION AND HEIGHT OF MECHANICAL EQUIPMENT PADS ON CONCRETE SLAB ON STEEL DECK AND SLAB-ON-

19. PROVIDE VERTICAL CONTROL JOINTS IN EXPOSED CONCRETE WALLS AT A MINIMUM

UNIFORM SPACING NOT TO EXCEED 25 FEET PER ACI 224.3. COORDINATE JOINT

20. IF CONCRETE IS PLACED BY PUMPING, SUPPORT SHALL BE PROVIDED FOR THE HOSE. THE

LOCATIONS WITH ARCHITECTURAL DRAWINGS.

GRADE 27. THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE TESTING AGENCY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S. SUBMIT TEST DATA ON EACH PROPOSED MIX FOR REVIEW IN ACCORDANCE WITH THE APPLICABLE CODE. MIX DESIGNS SUBMITTED WITHOUT THE REQUIRED TEST DATA WILL BE RETURNED WITHOUT REVIEW.

28. PROVIDE SLAB COORDINATION DRAWING SUBMITTAL INDICATING COORDINATED LOCATIONS OF: MEP PENETRATIONS, SLEEVES, OPENINGS, IN-SLAB CONDUIT/DUCT (IF ALLOWED). EMBEDS. CAST-IN ANCHORS. POST-TENSIONED TENDONS AND STRESSING ANCHORS, AND OTHER ITEMS EMBEDDED OR PENETRATING STRUCTURAL ELEVATED SLABS.

MASONRY

1. CMU CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ACI 530/530.1 TMS 402/602 "BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES".

- 2. MINIMUM 28-DAY COMPRESSIVE STRENGTHS FOR CMU CONSTRUCTION SHALL BE: DESIGN ASSEMBLY STRENGTH, f'm 2500 PSI
- INDIVIDUAL CONCRETE MASONRY UNITS 2800 PSI 2000 PSI GROUT 3. CMU MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS:
- CONCRETE MASONRY UNITS ASTM C90, NORMAL WEIGHT MORTAR ASTM C270, TYPE S ASTM C270, TYPE N ASTM C476 GROUT
- JOINT REINFORCING ASTM A82 4. WIRE REINFORCING PER ASTM A82 FOR SINGLE-WYTHE CMU WALLS, CMU CAVITY WALLS, AND MULTI-WYTHE COMPOSITE CMU WALLS SHALL BE HOT-DIP GALVANIZED PER ASTM A153, CORROSION RESISTANT HORIZONTAL JOINT REINFORCING WITH THE FOLLOWING GAUGE AND VERTICAL SPACING: 9 GA @ 16" OC (ALL WIDTHS) RUNNING BOND BELOW GRADE WALLS
- 9 GA @ 8" OC OTHER THAN RUNNING BOND 9 GA @ 16" OC (6"-8" WIDTH) 9 GA @ 8" OC (10"-16" WIDTH) 5. ALL LOAD BEARING CMU WALLS TO HAVE FULL MORTAR BED, HEAD, AND COLLAR JOINTS. 6. GROUT SOLID ALL JAMBS FULL HEIGHT IN LOAD BEARING CMU WALLS TO UNDERSIDE OF
- LINTEL PLUS ONE CELL BEYOND BEARING LENGTH. 7. PROVIDE MINIMUM 1 INCH GROUT BETWEEN MAIN REINFORCING AND/OR BOLTS AND CMU UNIT FACE. VERTICAL REINFORCEMENT SHALL BE CENTERED IN WALL, UNLESS OTHERWISE NOTED. VERTICAL REINFORCING BARS SHALL SECURELY BE HELD IN
- POSITION BY WIRE TIES OR OTHER APPROVED MEANS TO ENSURE DESIGN LOCATION AND LAP. PLACE BARS AND LAP PRIOR TO GROUTING. 8. HORIZONTAL BOND BEAM AND VERTICAL REINFORCING SHALL BE CONTINUOUS UNLESS
- OTHERWISE NOTED. 9. CELLS SHALL BE IN VERTICAL ALIGNMENT. DOWELS IN FOOTINGS SHALL BE SET TO ALIGN
- WITH VERTICAL REINFORCING STEEL 10. ALL CELLS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT.
- 11. HORIZONTAL BAR REINFORCEMENT SHALL BE FULLY EMBEDDED IN GROUT IN AN UNINTERRUPTED POUR.
- 12. EXCEPT FOR WALL PILASTERS, VERTICAL REINFORCEMENT SHALL BE FIELD CUT FOR 4'-0" LIFTS AND LAP SPLICED PER LAP LENGTH SCHEDULE.
- 13. COORDINATE ANY UNIDENTIFIED PIPE OR DUCT PASSING THROUGH STRUCTURAL CMU WALLS WITH TYPICAL DETAILS, UNLESS OTHERWISE NOTED.
- 14. SEE ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN, AND JOINT TYPE. ALL BLOCK SHALL BE LAID IN RUNNING BOND, UNLESS OTHERWISE NOTED

LINTELS

- 1. PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES IN MASONRY CONSTRUCTION. LINTELS ARE NOT REQUIRED OVER OPENINGS 12" WIDE OR LESS THAT IS AT LEAST 1
- COURSE BELOW THE BOND BEAM AT THE TOP OF WALL. 2. PENETRATIONS NOT IDENTIFIED ON THE DOCUMENTS ARE TO BE TREATED IN A MANNER
- SIMILAR TO THE IDENTIFIED LOCATIONS. LINTELS IN NON-BEARING WALLS SHALL BE SIZED PER THE FOLLOWING:

STEEL OPTION (FOR EA 4" OF MASONRY) *
L3 1/2x3 1/2x1/4
L4x3 1/2x5/16 (LLV)
L5x3 1/2x5/16 (LLV)
L6x3 1/2x3/8 (LLV)
8" BLOCK
8" DEEP W/ (1) #4 BOTT
8" DEEP W/ (1) #4 BOTT
16" DEEP W/ (1) #4 BOTT
16" DEEP W/ (2) #5 BOTT

MINIMUM 4. ALL LINTELS SHALL HAVE A MINIMUM OF 8" END BEARING AND DO NOT REQUIRE BEARING

PLATES, UNLESS OTHERWISE NOTED. 5 TEMPORARY SHORING OF MASONRY LINTELS MUST BE PROVIDED UNTIL MASONRY HAS

STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "DETAILING FOR STEEL CONSTRUCTION" AND FABRICATED AND ERECTED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".

ASTM F1554, GR 36

ASTM F3125, GR A325

ASTM F3125, GR F1852

- 2. STRUCTURAL STEEL SHALL CONFORM TO ASTM STANDARDS AS NOTED BELOW: WIDE FLANGE SHAPES ASTM A992 OTHER ROLLED SHAPES ASTM A36 ASTM A500, GR C HSS SECTION, SQ/RECT BASE AND CONNECTION PLATES ASTM A36
- ANCHOR RODS HIGH STRENGTH BOLTS HIGH STRENGTH TWIST-OFF BOLTS HEAVY HEX NUTS

REACHED 75% OF DESIGN STRENGTH.

WASHERS HEADED STUD ANCHORS

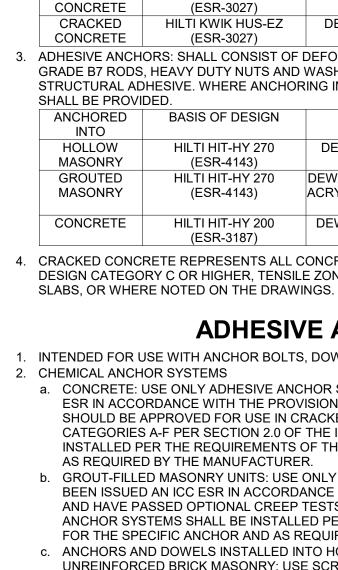
FABRICATION.

- ASTM A108, TYPE B ELECTRODES FOR ARC WELDING AWS 5.1, E70XX
- 3. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". SEE DETAILS FOR BOLT SIZE AND MATERIAL ASTM DESIGNATION.

ASTM A563

ASTM F436

- 4. ALL BOLTED CONNECTIONS SHALL BE GRADE A325N BEARING TYPE BOLTS, UNLESS OTHERWISE NOTED. ALL BOLTS SHALL BE INSTALLED TO A MINIMUM "SNUG TIGHT"
- CONDITION, UNLESS OTHERWISE NOTED. 5. FULLY TENSIONED HIGH STRENGTH BOLTS AND SLIP CRITICAL HIGH STRENGTH BOLTS SHALL USE TENSION-CONTROL "TWIST-OFF" BOLTS OR BE INSTALLED USING THE TURN OF
- THE NUT METHOD. 6. WELD LENGTHS INDICATED ON THE DRAWINGS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE WELD LENGTH IS NOT SPECIFIED. PROVIDE WELD ALONG ENTIRE
- INTERSECTION OF THE JOINED PARTS. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM WELD SIZE AS SPECIFIED IN AISC 360, TABLE J2.4. 7. HEADED STUD ANCHORS (HSA): SHALL BE INSTALLED IN ACCORDANCE WITH AWS D1.1 AND SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE HSA AND THE STEEL SHAPE. THERE SHOULD BE N POROSITY OR EVIDENCE OF LACK OF FUS
- AND THE STEEL SHAPE. THE HSA SHALL [APPROXIMATELY 1/8" FOR 5/8"ø AND SMAL 8. SPLICING OF STEEL MEMBERS WHERE NO WITHOUT THE PRIOR APPROVAL OF THE S
- OF SPLICE AND CONNECTION TO BE MADE 9. ALL STEEL EXPOSED TO WEATHER OR AS AFTER FABRICATION IN ACCORDANCE WI TOUCHED UP WITH COLD GALVANIZING COMPOUND IN ACCORDANCE WITH ASTM A780. 10. ALL GALVANIZED HOLLOW SECTIONS SHALL HAVE WELDED CAP PLATES TO SEAL EXPOSED ENDS.
- 11. CUTS, HOLES, OPENINGS, ETC., REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OF HOLES AND CUTS IN THE FIELD SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
- 12. FURNISH AND INSTALL MISCELLANEOUS STEEL (CURBS, HANGERS, EXPANSION JOINT ANGLES, STRUTS, ETC.) AS CALLED FOR OR AS NECESSARY PER ARCHITECTURAL AND MECHANICAL/ELECTRICAL DRAWINGS. 13. GROUT FOR BASE AND BEARING PLATES SHALL BE A NON-SHRINK, NON-METALLIC
- PRODUCT. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 7000 10,000 PSI. INSTALL GROUT PRIOR TO APPLYING SIGNIFICANT LOADING TO MEMBER. 14. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL FOR ARCHITECT/STRUCTURAL ENGINEER'S REVIEW BEFORE



- ICC ESR.
- NUTS AND ASTM F436 WASHERS. TO INSTALLATION.
- TORQUE. 7. THE TENSION TESTING OF THE CHEMICAL ANCHORS SHALL BE DONE IN THE PRESENCE OF
- THE ENFORCEMENT AGENCY. 8. TEST QUANTITY OF AN APPLI STRUC NON-STR
- SILL PLAT 9. ANCHORS TO BE TEST 10. WHERE ADHESIVE AND
- FOLLOWING CONDITIONS ARE MET: MEMBERS, SUCH AS SHEAR WALLS, COLLECTORS AND DIAPHRAGMS.

AND THE STEEL SHAPE. THERE SHOULD BE NO	
SION BETWEEN THE WELDED END OF THE HSA	
DECREASE IN LENGTH DURING WELDING	
LLER AND 3/16" FOR LARGER THAN 5/8"ø.	
OT DETAILED ON THE DRAWINGS IS PROHIBITED	
STRUCTURAL ENGINEER AS TO LOCATION, TYPE	
E.	
S NOTED ON PLAN SHALL BE HOT-DIP GALVANIZED	
ITH ASTM A123 G60 G90. ABRADED AREAS TO BE	
MPOLIND IN ACCORDANCE WITH ASTM A780	

Fy = 50 KSI

Fy = 36 KSI

Fv = 50 KSI

Fy = 36 KSI

Fy = 36 KSI

Fv = 120 KSI

Fv = 120 KSI

GAUGE.

DRAWINGS

2. MECHANICAL ANCHORS:

 DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE (SJI) SPECIFICATION BY A MEMBER OF THE SJI, APPROVED FOR THE TYPE OF JOIST BEING USED. 							
2.	ATTACH STEEL		PPORT AS FO	DLLOWS:			
				NUM END RING (IN)			
	JOIST TYPE/SERIES	FILLET WELD SIZE	WELD LENGTH (IN)	BOLT DIAMETER (IN)	BOLT MATERIAL	STEEL	MASONRY
	K	1/8	2	1/2	A307	2 1/2	4
	LH/DLH 07-17	1/4	2	3/4	A307	4	6
4.	WHERE WELDS OF JOIST SEAT LIVE LOAD DEFI PROVIDE BRIDG WITHSTAND A N LOADS SECTION INSTALLATIONS AND REPLACEM PROVIDE ANCH CHORDS, EXCE	UNLESS OTH LECTION SHA GING PER SJI NET UPLIFT P N. WHERE BF G, THE JOIST MENT OF ANY ORS AT EAC	IERWISE NOT SPECIFICATI RESSURE AS RIDGING INTE MANUFACTUR BRIDGING. H END OF EAR	ED. ED SPAN OVER ONS. DESIGN AN INDICATED WIT RFERES WITH M RER SHALL PRO CH ROW OF BRI	360 FOR SPEC ND PROVIDE UI HIN THE DESIC IECHANICAL O VIDE DIRECTIC	Cial Jois Plift Br GN Crite R Other DN For F	STS. RIDGING TO ERIA AND R TRADE REMOVAL
6.	ALL JOIST HEAD JOIST FABRICAT		CESSORIES	SHALL BE DESIG	GNED AND FUR	NISHED	BY THE
7.	STEEL JOISTS S	SHALL BE TO	P CHORD BEA	ARING UNLESS (OTHERWISE NO	OTED ON	I PLANS.
8.	8. PROVIDE BOTTOM CHORD CEILING SUPPORT EXTENSIONS WHERE SHOWN ON THE STRUCTURAL AND/OR ARCHITECTURAL DRAWINGS.						THE
9.	 THE JOIST FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL BAR JOIST MATERIAL AND ACCESSORIES FOR ARCHITECT/STRUCTURAL ENGINEER'S REVIEW BEFORE FABRICATION. JOIST DESIGNATIONS ON THE SHOP DRAWINGS SHALL BE THE SAME NUMBERS AS SHOWN IN THE SJI MANUAL. 						

STEEL DECK

1. MATERIAL, DETAILING, DESIGN, MANUFACTURE, AND ERECTION OF STEEL DECKS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE (SDI) SPECIFICATION. 2. DECK SIZE AND GAUGE INDICATED ON THE DRAWINGS ARE BASED ON THE FOLLOWING: A. CURRENT VERSION OF VULCRAFT VERCO CATALOG FOR GRAVITY DESIGN LOADS AND UNSHORED CONSTRUCTION SPANS B. STEEL DECK INSTITUTE (SDI) DIAPHRAGM DESIGN MANUAL 4TH EDITION FOR

DIAPHRAGM LOADS 3. STEEL DECK GALVANIZING SHALL CONFORM TO ASTM A653 WITH A MINIMUM COATING OF

4. PROVIDE MINIMUM DECK BEARING AND LAP LENGTHS PER MANUFACTURER'S RECOMMENDATIONS. 5. USE SUMP PANS AT ALL ROOF DRAINS. MINIMUM THICKNESS FOR SUMP PANS SHALL BE 14

6. DECK MANUFACTURER SHALL FURNISH ALL RIDGE AND VALLEY PLATES, SUMP PANS, DRAIN PLATES, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. DECK MANUFACTURER SHALL PROVIDE ALL CLOSURE PLATES AND POUR STOPS NOT

PROVIDED BY THE STEEL FABRICATOR. 7. CUTTING AND FRAMING OF OPENINGS FOR OTHER TRADES SHALL BE THE RESPONSIBILITY OF THE TRADES INVOLVED. HOLES THAT ARE LOCATED AND DIMENSIONED ON THE DRAWINGS SHALL BE THE RESPONSIBILITY OF THE DECK ERECTOR. 8. CONDUITS SHOULD NOT BE PLACED IN CONCRETE SLAB ON STEEL DECK WITHOUT COORDINATION WITH THE STRUCTURAL ENGINEER, UNLESS OTHERWISE NOTED. 9. COORDINATE ALL PENETRATIONS, EMBEDS, AND RECESSES IN COMPOSITE FLOOR

SYSTEMS WITH THE STRUCTURAL ENGINEER, UNLESS OTHERWISE NOTED. 10. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO STEEL ROOF DECK. THIS 25 LBS LOAD AND 2'-0" SPACING INCLUDES ADJACENT MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS HANGING FROM THE DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING SUPPORTED OFF STEEL FRAMING WILL NEED TO BE ADDED. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING LOCATION AND WEIGHT OF ALL THE ELEMENTS BEING HUNG WITH STRUCTURAL ENGINEER, UNLESS OTHERWISE NOTED. 11. SUBMIT SHOP DRAWINGS SHOWING ERECTION PROCEDURES, WELDING PROCEDURES, VERTICAL LOAD AND DIAPHRAGM SHEAR CAPACITY FURNISHED, DECK SHORING REQUIREMENTS, UNDERWRITER'S LABORATORIES (UL) FIRE RATING NUMBER AND COMPOSITE BEAM AND GIRDER STUD PROFILES TO THE ARCHITECT/STRUCTURAL

ENGINEER FOR REVIEW. FABRICATION SHALL NOT BEGIN WITHOUT APPROVED SHOP

POST-INSTALLED ANCHORS

1. ANCHORS SERVING AS THE BASIS OF DESIGN ARE SHOWN ON THE DRAWINGS ACCEPTABLE ALTERNATIVE ANCHORS MAY BE SUPPLIED PROVIDED THE QUANTITY AND CONFIGURATION MATCH THE CAPACITY OF THE DESIGN ANCHOR QUANTITY AND CONFIGURATION. ANY ALTERNATES ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. BELOW SUMMARIZES EACH ANCHOR TYPE USED ON THE PROJECT.

a. EXPANSION ANCHORS							
ANCHORED INTO	BASIS OF DESIGN	ACCEPTABLE ALTERNATES					
GROUTED MASONRY	HILTI KB3 (ESR-1385)	DEWALT POWER STUD+ SD1 (ESR-2966) SIMPSON WEDGE-ALL (ESR-1396)					
UNCRACKED CONCRETE	HILTI KB3 (ESR-2302)	DEWALT POWER STUD+ SD2 (ESR-2502) RED HEAD TRUBOLT+ (ESR-2427) SIMPSON STRONG BOLT 2 (ESR-3037)					
CRACKED CONCRETE	HILTI KBTZ (ESR-1917)	DEWALT POWER STUD+ SD2 (ESR-2502) RED HEAD TRUBOLT+ (ESR-2427) SIMPSON STRONG BOLT 2 (ESR-3037)					
b. THREADED S	CREW ANCHORS						
ANCHORED INTO	BASIS OF DESIGN	ACCEPTABLE ALTERNATES					
GROUTED MASONRY	HILTI KWIK HUS-EZ (ESR-3056)	DEWALT WEDGE-BOLT+ (ESR-1678) SIMPSON TITEN HD (ESR-1056)					
UNCRACKED CONCRETE	HILTI KWIK HUS-EZ (ESR-3027)	DEWALT POWER SCREW-BOLT+ (ESR-3889) SIMPSON TITEN HD (ESR-2713)					
CRACKED CONCRETE	HILTI KWIK HUS-EZ (ESR-3027)	DEWALT POWER SCREW-BOLT+ (ESR-3889) SIMPSON TITEN HD (ESR-2713)					
ADHESIVE ANCHORS: SHALL CONSIST OF DEFORMED REINFORCING BARS OR ASTM A193 GRADE B7 RODS, HEAVY DUTY NUTS AND WASHERS AND A TWO COMPONENT STRUCTURAL ADHESIVE. WHERE ANCHORING INTO HOLLOW MASONRY, A SCREEN TUBE SHALL BE PROVIDED.							
ANCHORED INTO	BASIS OF DESIGN	ACCEPTABLE ALTERNATES					
HOLLOW MASONRY	HILTI HIT-HY 270 (ESR-4143)	DEWALT AC 100+ GOLD (ESR-3200) SIMPSON SET-XP (ESR-0265)					
GROUTED MASONRY	HILTI HIT-HY 270 (ESR-4143)	DEWALT AC 100+ GOLD (ESR-3200) RED HEAD A7 ACRYLIC (ESR-3951) SIMPSON SET-XP (ESR-0265)					
CONCRETE	HILTI HIT-HY 200 (ESR-3187)	DEWALT AC 200+ (ESR-4027) SIMPSON SET-3G (ESR-4057)					

4. CRACKED CONCRETE REPRESENTS ALL CONCRETE FOR PROJECTS LOCATED IN SEISMIC DESIGN CATEGORY C OR HIGHER, TENSILE ZONES SUCH AS BOTTOMS OF BEAMS AND

ADHESIVE ANCHORS

1. INTENDED FOR USE WITH ANCHOR BOLTS, DOWELS, AND REINFORCING BARS. a. CONCRETE: USE ONLY ADHESIVE ANCHOR SYSTEMS THAT HAVE BEEN ISSUED AN ICC ESR IN ACCORDANCE WITH THE PROVISIONS OF ICC-ES AC308. ANCHOR SYSTEMS SHOULD BE APPROVED FOR USE IN CRACKED CONCRETE AND SEISMIC DESIGN CATEGORIES A-F PER SECTION 2.0 OF THE ICC ESR. ANCHOR SYSTEMS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE ICC ESR FOR THE SPECIFIC ANCHOR AND

AS REQUIRED BY THE MANUFACTURER. b. GROUT-FILLED MASONRY UNITS: USE ONLY ADHESIVE ANCHOR SYSTEMS THAT HAVE BEEN ISSUED AN ICC ESR IN ACCORDANCE WITH THE PROVISIONS OF ICC-ES AC58 AND HAVE PASSED OPTIONAL CREEP TESTS DESCRIBED IN SECTION 4.4.3 OF AC58. ANCHOR SYSTEMS SHALL BE INSTALLED PER THE REQUIREMENTS OF THE ICC ESR FOR THE SPECIFIC ANCHOR AND AS REQUIRED BY THE MANUFACTURER.

c. ANCHORS AND DOWELS INSTALLED INTO HOLLOW MASONRY UNITS AND UNREINFORCED BRICK MASONRY: USE SCREENS AS SPECIFIED BY THE MANUFACTURER. EMBEDMENT DEPTH FOR ANCHORS SHALL BE PER THE APPLICABLE 3. ANCHOR BOLTS SHALL BE ASTM A36 THREADED RODS WITH ASTM A563 GRADE A NUTS

AND ANSI B18.22.1 TYPE A WASHERS, UNLESS OTHERWISE NOTED. ANCHORS DESIGNATED AS ASTM A193 GRADE B7 THREADED RODS SHALL USE ASTM A563 GRADE DH HEAVY HEX 4. DOWELS AND REINFORCEMENT BARS SHALL BE ASTM A615, GRADE 60. 5. REMOVE GREASE, OIL, RUST AND ANY OTHER LAITANCE FROM RODS AND DOWELS PRIOR

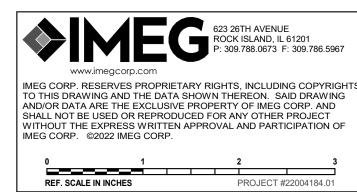
6. TESTING AND INSPECTION REQUIREMENTS WILL BE DICTATED BY SECTION 4.0 OF THE ICC ESR. ANY TESTING AND INSPECTION SHALL VERIFY ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, HOLE DIMENSIONS, ANCHOR SPACINGS, EDGE DISTANCES, SLAB THICKNESS, ANCHOR EMBEDMENT, AND TIGHTENING

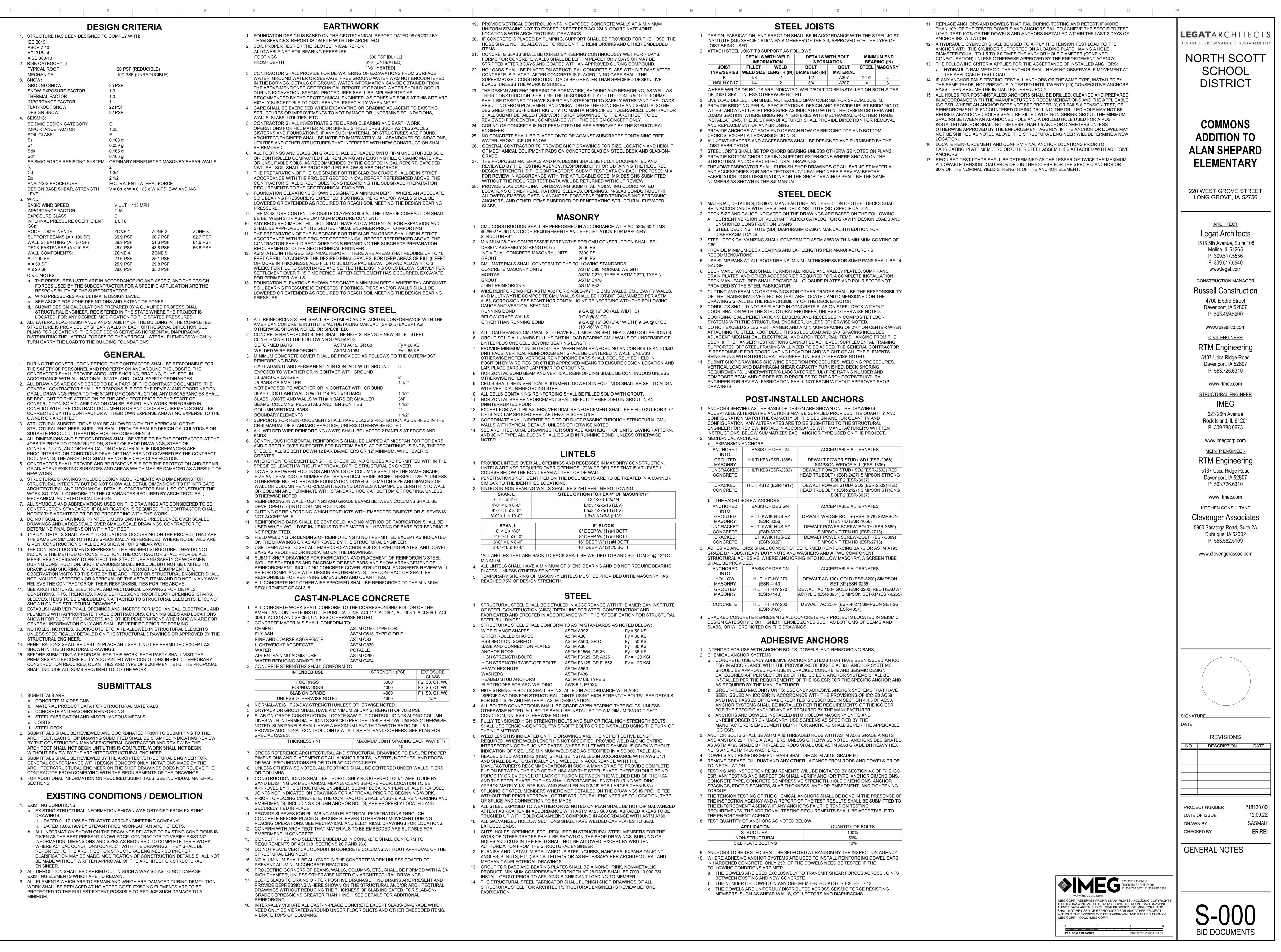
THE INSPECTION AGENCY AND A REPORT OF THE TEST RESULTS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY. IF ANY ANCHORS FAIL THE TENSION TESTING REQUIREMENTS, THE ADDITIONAL TESTING REQUIREMENTS SHALL BE ACCEPTABLE TO

ICHORS AS NOTED BELOW:							
CATION	QUANTITY OF BOLTS						
CTURAL	100%						
RUCTURAL	50%						
E BOLTING	10%						
TED SHALL BE SELECTED AT RANDOM BY THE INSPECTION AGENCY CHOR SYSTEMS ARE USED TO INSTALL REINFORCING DOWEL BARS							

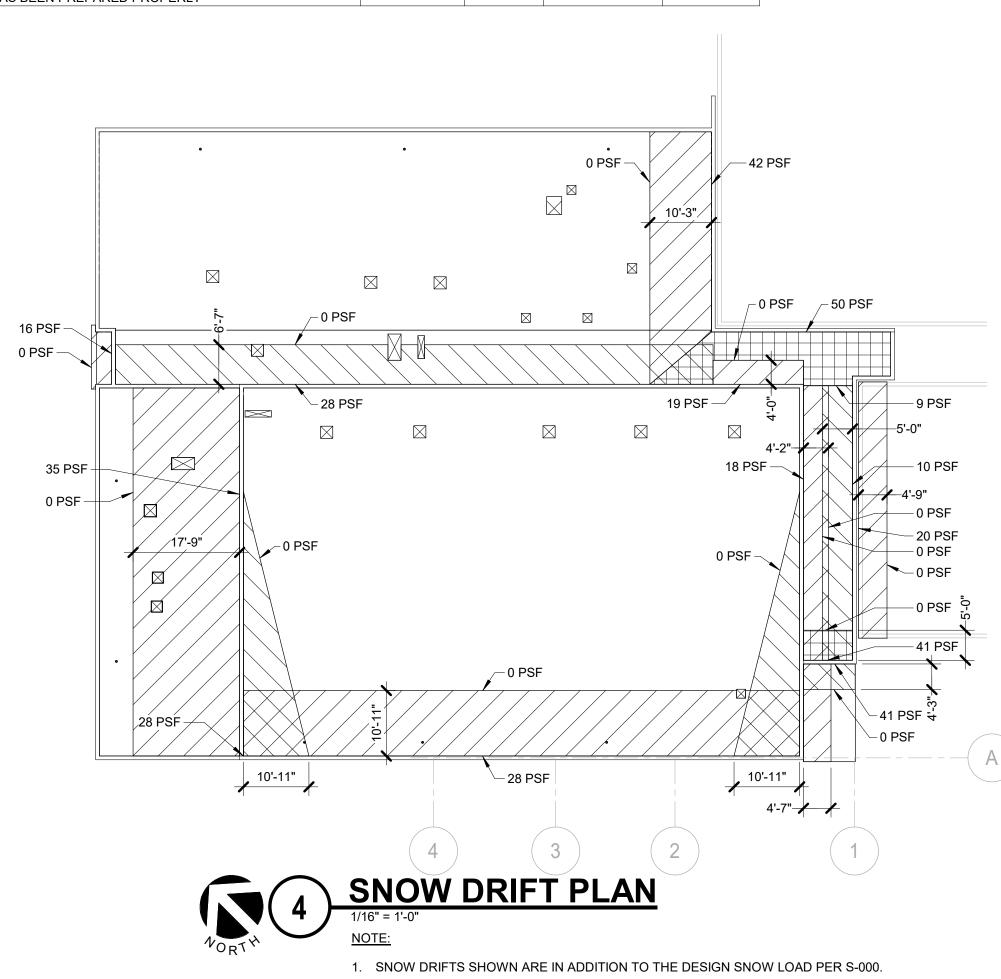
IN HARDENED CONCRETE, ONLY 25% OF THE DOWELS NEED BE TESTED IF THE a. THE DOWELS ARE USED EXCLUSIVELY TO TRANSMIT SHEAR FORCES ACROSS JOINTS BETWEEN EXISTING AND NEW CONCRETE. b. THE NUMBER OF DOWELS IN ANY ONE MEMBER EQUALS OR EXCEEDS 12. c. THE DOWELS ARE UNIFORMLY DISTRIBUTED ACROSS SEISMIC FORCE RESISTING

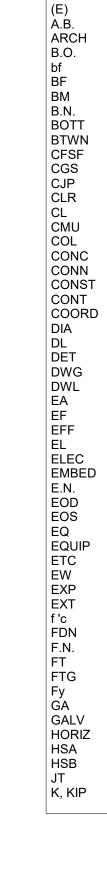
- 11. REPLACE ANCHORS AND DOWELS THAT FAIL DURING TESTING AND RETEST. IF MORE THAN 10% OF THE TESTED DOWELS AND ANCHORS FAIL TO ACHIEVE THE SPECIFIED TEST LOAD, TEST 100% OF THE DOWELS AND ANCHORS INSTALLED WITHIN THE LAST 2 DAYS OF ANCHOR INSTALLATION.
- 12. A HYDRAULIC CYLINDER SHALL BE USED TO APPLY THE TENSION TEST LOAD TO THE ANCHOR WITH THE CYLINDER SUPPORTED ON A LOADING PLATE HAVING A HOLE DIAMETER EQUAL TO 1.5 TO 2.0 TIMES THE ANCHOR HOLE DIAMETER (CONFINED
- CONFIGURATION) UNLESS OTHERWISE APPROVED BY THE ENFORCEMENT AGENCY. 13. THE FOLLOWING CRITERIA APPLIES FOR THE ACCEPTANCE OF INSTALLED ANCHORS: a. HYDRAULIC RAM METHOD: THE ANCHOR SHALL HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD.
- 14. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE, INSTALLED BY THE SAME TRADE, NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE ANCHORS PASS, THEN RESUME THE INITIAL TEST FREQUENCY. 15. ALL HOLES FOR POST-INSTALLED ANCHORS SHALL BE DRILLED. CLEANED AND PREPARED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE APPLICABLE ICC ESR. WHERE AN ANCHOR DOES NOT SET PROPERLY, OR FAILS A TENSION TEST, OR REINFORCEMENT IS ENCOUNTERED DURING DRILLING, THE DRILLED HOLE MAY NOT BE REUSED. ABANDONED HOLES SHALL BE FILLED WITH NON-SHRINK GROUT. THE MINIMUM
- SPACING BETWEEN AN ABANDONED HOLE AND A DRILLED HOLE USED FOR A POST-INSTALLED ANCHOR SHALL NOT BE LESS THAN 1.5 ANCHOR DIAMETERS UNLESS OTHERWISE APPROVED BY THE ENFORCEMENT AGENCY. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE STRUCTURAL ENGINEER WILL DETERMINE A NEW I OCATION
- 16. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATE MEMBERS OR OTHER STEEL ASSEMBLIES ATTACHED WITH ADHESIVE ANCHORS. 17. REQUIRED TEST LOADS SHALL BE DETERMINED AS THE LESSER OF TWICE THE MAXIMUM
- ALLOWABLE TENSION LOAD PROVIDED IN THE ICC ESR FOR THE SPECIFIC ANCHOR OR 80% OF THE NOMINAL YIELD STRENGTH OF THE ANCHOR ELEMENT.



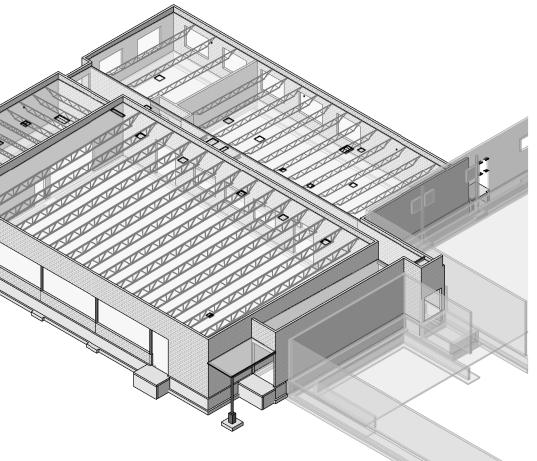


TESTING, INSPECTIONS, AND	OBSERVATIONS		VERIFICATION AND INSPECTION TASK	QC QA MATERIAL STD AWS D1.1 REFERENCE CLAUSES	STRUCTURAL ABBREVIATION KEY ABBR: DESCRIPTION: ABBR: DESCRIPTION:	VIEW KEY
TRUCTURAL ENGINEER DOES NOT PROVIDE INSPECTIONS OF CONSTRUCTION. STR ONSTRUCTION. SUCH OBSERVATIONS SHALL NOT REPLACE REQUIRED INSPECTION	TRUCTURAL ENGINEER MAY MAKE PE ONS BY THE GOVERNING AUTHORITIE		1. USE OF QUALIFIED WELDERS	O O TABLE C-N5.4-2 6.4	ADDR: DESCRIPTION: ADDR: DESCRIPTION: # NUMBER OR POUNDS KSF KIPS PER SQUARE FOOT @ AT KSI KIPS PER SQUARE INCH	NAME LEVEL NAME Image: Note of the second s
CTIONS" AS MAY BE REQUIRED BY CHAPTER 17 OF THE INTERNATIONAL BUILDING (RCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS OR S IREMENTS OF NON-STRUCTURAL COMPONENTS.	CODE.	-	2. CONTROL AND HANDLING OF WELDING CONSUMABLES a. PACKAGING b. EXPOSURE CONTROL	O O TABLE C-N5.4-2 6.2 O O TABLE C-N5.4-2 5.3.1 O O TABLE C-N5.4-2 5.3.2 (FOR	Image: Weight of the second constraint of the second c	PROJECT 0'-0" WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL
S OF THE INSPECTION AGENCY PER IBC CHAPTER 17: JBMIT A PROPOSED TESTING AND INSPECTION PROGRAM TO THE OWNER, THE ARC	RCHITECT AND THE STRUCTURAL ENG	GINEER FOR REVIEW A	ID	SMAW), 5.3.3 (FOR SAW)	A.B. ANCHOR BOLT LLH LONG LEG HORIZONTAL ARCH ARCHITECT, -URE, -URAL LLV LONG LEG VERTICAL	INDICATES DIRECTION OF TRUE NORTH
PROVAL AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF WORK. RFORM ALL TESTING AND INSPECTION REQUIRED PER APPROVED TESTING AND IN IRNISH INSPECTION REPORT TO THE BUILDING OFFICIAL, THE OWNER, THE ARCHIT		THE GENERAL	3. ENVIRONMENT CONDITIONS a. WIND SPEED WITHIN LIMITS b. PRECIPITATION AND TEMPERATURE	O O TABLE C-N5.4-2 O O TABLE C-N5.4-2 5.11.1 O O TABLE C-N5.4-2 5.11.2	bf bfBEAM FLANGE WIDTHLSHLONG SIDE HORIZONTALBFBRACE FRAMELSVLONG SIDE VERTICAL	PLAN OR DETAIL NAME
NTRACTOR. THE REPORTS SHALL BE COMPLETED AND FURNISHED WITHIN 48 HOU BMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL ENCY'S KNOWLEDGE. IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIA	OURS OF INSPECTED WORK. AL INSPECTION WAS, TO THE BEST OI		4. WPS FOLLOWED ION a. SETTINGS ON WELDING EQUIPMENT	O O TABLE C-N5.4-2 6.3.3, 6.5.2, 5.5, 5.20 O O TABLE C-N5.4-2 5.20	BMBEAMLT WTLIGHTWEIGHTB.N.BOUNDARY NAILINGMAXMAXIMUMBOTTBOTTOMMECHMECHANICAL	
AL INSPECTIONS AND TESTS ARE REQUIRED FOR MATERIALS AND SYSTEMS REQU FACTURER'S INSTRUCTIONS THAT PRESCRIBE REQUIREMENTS NOT CONTAINED IN	UIRED TO BE INSTALLED IN ACCORDA		BY b. TRAVEL SPEED c. SELECTED WELDING MATERIALS	O O TABLE C-N5.4-2 O O TABLE C-N5.4-2	BTWNBETWEENMANUFMANUFACTURERCFSFCOLD FORM STEEL FRAMINGMINMINIMUMCGSCENTER OF GRAVITY OF THE TENDONNICNOT IN CONTRACT	N_{ORT} $1/8" = 1'-0"$ PLAN OR DETAIL SCALE
C. THESE ITEMS INCLUDE: ST-INSTALLED ANCHORS - INSPECTION DLLOWING WORK SHALL BE INSPECTED BY THE SPECIAL INSPECTOR UNLESS SPEC	ECIFICALLY WAIVED BY THE BUILDING	OFFICIAL	d. SHIELDING GAS TYPE/FLOW RATE e. PREHEAT APPLIED f. INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)	O O TABLE C-N5.4-2 O O TABLE C-N5.4-2 5.6, 5.7 O O TABLE C-N5.4-2 5.6, 5.7	CJPCOMPLETE JOINT PENETRATION WELDNTSNOT TO SCALECLRCLEAROCON CENTERCLCENTERLINEOHOPPOSITE HAND	INDICATES SIMILAR DETAIL REFERENCED
VERIFICATION AND INSPECTION TASK	CONTINUOUS PERIODIC MA		ICE g. PROPER POSITION (F, V, H, OH)	O O TABLE C-N5.4-2 O O TABLE C-N5.4-2	OL CMUCONCRETE MASONRY UNITOPNGOPENINGCOLCOLUMNOSBORIENTED STRAND BOARD	DETAIL REFERRED TO BY SECTION CUT
CONCRETE CONSTRUCTION INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT		318: CH 20, 1908 5.2, 25.3,	5. WELDING TECHNIQUES a. INTERPASS AND FINAL CLEANING	O O TABLE C-N5.4-2 6.5.2, 6.5.3, 5.23 O O TABLE C-N5.4-2 5.29.1	CONCCONCRETEPCFPOUNDS PER CUBIC FOOTCONNCONNECTIONP.H.PENTHOUSECONSTCONSTRUCTIONPJPPARTIAL JOINT PENETRATION V	WELD S300 - SHEET DETAIL IS LOCATED ON
2. MATERIAL IDENTIFICATION OF REINFORCING (TYPE/GRADE)	26	5.2.1-26.6.3 341: TABLE	b. EACH PASS MEETS QUALITY REQUIREMENTS	O O TABLE C-N3.4-2 5.29.1 O O TABLE C-N5.4-2 0 O O TABLE C-N5.4-2 0	CONTCONTINUOUSPLPLATECOORDCOORDINATIONPLFPOUNDS PER LINEAR FOOTDIADIAMETERPSFPOUNDS PER SQUARE FOOT	LINE TYPE KEY:
3. REINFORCING STEEL HAS NOT BEEN REBENT IN THE FIELD		341: TABLE J9.1	VERIFICATION AND INSPECTION TASK	QC QA MATERIAL STD AWS D1.1 REFERENCE CLAUSES	DLDEAD LOADPSIPOUNDS PER SQUARE INCHDETDETAILPTPOST-TENSION, -ED, -ING	(DARK SOLID LINE/LINE WEIGHT WILL VARY)
 REINFORCING STEEL HAS BEEN TIED AND SUPPORTED AS REQUIRED REINFORCING STEEL CLEARANCES HAVE BEEN PROVIDED 		C 341: TABLE J9.1 C 341: TABLE	STRUCTURAL STEEL AFTER WELDING - MINIMUM INSPECTION 1. WELDS CLEANED	O O TABLE C-N5.4-3 5.29.1	DWL DOWEL REINF REINFORCING, -MENT, -ED EA EACH REQD REQUIRED	NEW WORK BELOW OR BEYOND VIEW (DARK DASH LINE)
6. COMPOSITE STEEL MEMBERS HAVE REQUIRED SIZE		J9.1 341: TABLE .19.1	2. SIZE, LENGTH AND LOCATION OF WELDS 3. WELDS MEET VISUAL ACCEPTANCE CRITERIA a. CRACK PROHIBITION	P P TABLE C-N5.4-3 6.5.1 P ² P ² TABLE C-N5.4-3 6.5.3 P ² P ² TABLE C-N5.4-3 TABLE 6.1(1)	EFEACH FACERTUROOF TOP UNITEFFEFFECTIVESCSLIP CRITICALELELEVATIONSCHEDSCHEDULE	EXISTING TO BE REMOVED (DARK DASH LINE)
7. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		WS D1.4	b. WELD/BASE-METAL FUSION c. CRATER CROSS-SECTION	P ² P ² TABLE C-N5.4-3 TABLE 6.1(2) P ² P ² TABLE C-N5.4-3 TABLE 6.1(3) P ² P ² TABLE C-N5.4-3 TABLE 6.1(3)	ELECELECTRICALSFRSSEISMIC FORCE-RESISTING SYEMBEDEMBEDMENTSIMSIMILARE.N.EDGE NAILINGSLSNOW LOAD	STEM EXISTING WORK TO REMAIN (HALFTONED SOLID LINE/LINE WEIGHT WILL VARY)
 b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND c. INSPECTS ALL OTHER WELDS 8. INSPECT ANCHORS CAST IN CONCRETE 	X	I 318: 26.6.4 I 318: 17.8.2	e. WELD SIZE	P ² P ² TABLE C-N5.4-3 TABLE 6.1(4), 5.24 P ² P ² TABLE C-N5.4-3 TABLE 6.1(6)	E.N.EDGE OF DECKS.M.S.SHEET METAL SCREWEOSEDGE OF SLABSPSPACE(S)FQEQUALSPECSSPECIFICATION(S)	NON STRUCTURAL (HALFTONED LIGHT SOLID LINE)
NSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS: DHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED		318: 17.8.2.4	f. UNDERCUT g. POROSITY	P ² P ² TABLE C-N5.4-3 TABLE 6.1(7) P ² P ² TABLE 6.1(8) TABLE 6.1(8)	EQUIP EQUIPMENT SQ SQUARE ETC ETCETERA STIFF STIFFENER	— – — – GRID OR CENTERLINE
ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a 10. VERIFY USE OF REQUIRED DESIGN MIX	X AC	I 318: 17.8.2 318: CH 19, 1904.1, 1	4. ARC STRIKES 5. K-AREA ³ 6. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES		EWEACH WAYSTLSTEELEXPEXPANSIONSYMSYMMETRICALEXTEXTERIORT&BTOP AND BOTTOM	MATERIAL LEGEND:
OR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS,	26 S, X ASTN	.4.2, 26.4.4 1908.2, 1 1 C172, ASTM 1907.	08.3	P2 P2 TABLE C-N5.4-3 5.9, 5.30	f 'cCONCRETE COMPRESSIVE STRENGTHT.O.TOP OFFDNFOUNDATIONTCPRE-TENSIONED BOLTF.N.FIELD NAILINGTEMPTEMPERATURE	CONCRETE - CAST-IN-PLACE MASONRY
RM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE SPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION		ACI 318: 26.5, 26.12 CI 318: 26.5 1908.6, 1	8. REPAIR ACTIVITIES 9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P P ² TABLE C-N5.4-3 6.5.3, 5.25 P P TABLE C-N5.4-3 6.5.4, 6.5.5	FTFOOTtfBEAM FLANGE THICKNESSFTGFOOTINGTHKTHICKFvYIELD STRESSTRANSTRANSVERSE	CONCRETE - EXISTING METAL / COLD-FORM STUD
TECHNIQUES FY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	X	1908 ACI 318: 1908	10. PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED) 1 FOLLOWING PERFORMANCE OF THIS INSPECTION TASK FOR TEN WELDS TO BE MAD	DE BY A GIVEN WELDER, WITH THE WELDER DEMONSTRATING	GA GAGE OR GAUGE TYP TYPICAL GALV GALVANIZED UON UNLESS OTHERWISE NOTED	
14. INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES; AND		318: 26.11.2	UNDERSTANDING OF REQUIREMENTS AND POSSESSION OF THE SKILLS TO VERIFY TH REDUCED TO OBSERVE, AND THE WELDER SHALL PERFORM THIS TASK. SHOULD THE PERFORMANCE OF THIS TASK, THE TASK SHALL BE RETURNED TO PERFORM UNTIL SU	HESE ITEMS, THE PERFORM DESIGNATION OF THIS TASK SHALL BE E INSPECTOR DETERMINE THE WELDER HAS DISCONTINUED	HORIZHORIZONTALVERTVERTICALHSAHEADED STUD ANCHORVIFVERIFY IN FIELDHSBHIGH STRENGTH BOLTW/WITH	EARTH EARTH PRECAST CONCRETE
 b. GROUTING OF BONDED PRESTRESSING TENDONS 15. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS 		CI 318: 26.9	ASSURANCE THE WELDER WILL PERFORM THE INSPECTION TASKS LISTED. 2 DOCUMENT - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THE WORK HA	AS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT	JT JOINT K, KIP KILOPOUND (1,000 POUNDS) WP WORK POINT WT WEIGHT WWR WELDED WIRE REINFORCING	GRAVEL OR GRANULAR FILL STEEL
IFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST- NED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS	IS	318: 26.11.2	DOCUMENTS. THE REPORT NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOIN INDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHAL FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR	ALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR & OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE		
ECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		18: 26.11.2(b)	CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACT 3 WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BE AREA FOR CRACKS WITHIN 3" OF THE WELD. THE VISUAL INSPECTION SHALL BE PERFO	EEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-		GROUT OR DRYPACK OR SAND
VERIFICATION AND INSPECTION TASK MASONRY CONSTRUCTION - LEVEL 2 1. PRIOR TO CONSTRUCTION:	CONTINUOUS PERIODIC T	MS 402 TMS 6	2 OF THE WELDING. VERIFICATION AND INSPECTION TASK	QC QA MATERIAL STD		COLUMN DESIGNATION
a. VERIFICATION OF COMPLIANCE OF SUBMITTALS b. VERIFICATION OF f'm	X X	ART. 1 ART. 1.	STRUCTURAL STEEL - OTHER INSPECTION TASKS REQUIRED BY AISC 341 B 1. RBS REQUIREMENTS, IF APPLICABLE	REFERENCE 1 P ¹ P ¹		BASE PLATE MARK
CONSTRUCTION BEGINS, VERIFY THE FOLLOWING ARE IN COMPLIANCE: a. PROPORTIONS OF SITE-PREPARED MORTAR	X	ART. 2.1, & 2.6	3. DIMENSIONAL TOLERANGES	P1 P1 P1 P1 P1 P1		
GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	X	ART. 2.4 B H	ERECTOR, AS APPLICABLE			FOOTING MARK (TOP ELEVATION)
E, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES d. PRESTRESSING TECHNIQUE		ART. 3.4 & ART. 3.	DOCUMENTS. THE REPORTS NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOI	INT FIT-UPS, WPS SETTINGS, COMPLETED WELDS, OR OTHER		SF#(+X'-X") PIER MARK (TOP ELEVATION) P# (+X'-X")
e. SAMPLE PANEL CONSTRUCTION PRIOR TO GROUTING, VERIFY THE FOLLOWING ARE IN COMPLIANCE: a. GROUT SPACE	X	ART. 1.	CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACT			
b. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES		3.2 F 10.8 & 10.9 ART. 2.4	3.6 OPEN-WEB JOISTS AND GIRDERS	REFERENCE REFERENCE		
PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS OPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR		. 6.1, 6.3.1, ART. 3.2 E .6 & 6.3.7 ART. 2.6 B	a. END CONNECTIONS - WELDING AND BOLTED	X SJI SPEC. LISTED IN SECTION 2207.1		GENERAL SYMBOLS: SYMBOL DESCRIPTION DETAIL REFERENCE
BONDED TENDONS 4. DURING CONSTRUCTION:		G.1.k	b. BRIDGING - HORIZONTAL AND DIAGONAL c. STANDARD BRIDGING	X SJI SPEC. LISTED		(+##'-##") TOP OF STRUCTURAL FRAMING N/A
FICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF- CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	X	ART. 1.5 8 ART. 1	d. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207			
PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION d. SIZE AND LOCATION OF STRUCTURAL MEMBERS YPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF	X X X	ART. 3. ART. 3. .2.1(e), 6.2.1		CONTINUOUS PERIODIC MATERIAL STD IBC REFERENCE REFERENCE REFERENCE		FOUNDATION SYMBOLS: SYMBOL DESCRIPTION DETAIL REFERENCE
IORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		& 6.3.1	1. DECK PLACEMENT AND ATTACHMENT	X X CONTINUOUS PERIODIC MATERIAL STD IBC		-1" SLAB DEPRESSION 3/S-301
f. WELDING OF REINFORCEMENT ARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°	X	C. 6.1.6.1.2 ART. 1.8 1.8 D	SOILS	REFERENCE REFERENCE	VIEW - FOR REFERENCE ONLY	S STEP IN FOOTING 7/S-301
F) h. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE EMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN	X	ART. 3. ART. 3.5				
COMPLIANCE SERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR		C ART. 1	PROPER MATERIAL 3. PERFORM CLASSIFICATIONS AND TESTING OF COMPACTED FILL MATERIAL	X		CONCRETE SYMBOLS:
rkiomo		B.2.a.3, B.2.b.3, B.2.c.3, 1.	.4 PLACEMENT AND COMPACTION OF COMPACTED FILL B.3 5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY TH			SYMBOL DESCRIPTION DETAIL REFERENCE RAMP UP RAMP (DIRECTION) N/A
VERIFICATION AND INSPECTION TASK		ERIAL STD AWS D	1			RAMP UP RAMP (DIRECTION) N/A ZZZZZZ SLAB THICKNESS CHANGE 4/S-300
STRUCTURAL STEEL PRIOR TO BOLTING - MINIMUM INSPECTION NUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O P TABI	ERENCE CLAUS				
. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS RRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT ENGTH IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)	O O TABI	E C-N5.6-1 6.5.1 E C-N5.6-1 2.3.2, 2.7.		Π		STEEL SYMBOLS: SYMBOL DESCRIPTION DETAIL REFERENCE
4. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL DNNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE	O O TABI	E C-N5.6-1 4, 8 E C-N5.6-1 TABLE 6	(2)	• • [//]		STMBOL DESCRIPTION DETAIL REFERENCE
N AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS RE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL /ED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED		E C-N5.6-1 3, 9.1, 9	3	0 PSF 42 PSF		
ECTION STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS		.E C-N5.6-1 2.2, 8, 9	1	10'-3"		MOMENT CONNECTION
T - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THE WORK HAS E S. THE REPORTS NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT TEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL I	T FIT-UPS, WPS SETTINGS, COMPLET	ED WELDS, OR OTHER				
K, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTOR	R ELEVATION INSPECTED. WORK NO	T IN COMPLIANCE WITH	THE		_ 50 PSF	
		ERIAL STD AWS D FERENCE CLAUS				
STRUCTURAL STEEL AFTER BOLTING - MINIMUM INSPECTION DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS		E C-N5.6-3 N/A				
VERIFICATION AND INSPECTION TASK STRUCTURAL STEEL PRIOR TO WELDING - MINIMUM INSPECTION		ERIAL STD AWS D FERENCE CLAUS		PSF 19 PSF ♀ ♀ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	9 PSF 5'-0"	
1. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE ANUFACTURER CERTIFICATES FOR WELDING CONSUMABLES AVAILABLE	P P TABI	E C-N5.4-1 6.3 E C-N5.4-1 6.2	35 PSF	4'-2" 18 PSF	10 PSF	
 MATERIAL IDENTIFICATION WELDER IDENTIFICATION 		.E C-N5.4-1 6.2 .E C-N5.4-1 6.4 (WEL QUALIFIC			0 PSF	
5. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)		N) .E C-N5.4-1	17'-9" 0 PSF	0 PSF	20 PSF 0 PSF	
a. JOINT PREPARATION b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) c. CLEANLINESS (CONDITION OF STEEL SURFACE)	O O TABI O O TABI	.E C-N5.4-1 6.5.2 .E C-N5.4-1 5.22 .E C-N5.4-1 5.14		UPOP	-0 PSF	
d. TACKING (TACK WELD QUALITY AND LOCATION) e. BACKING TYPE AND FIT (IF APPLICABLE)	O O TABI O O TABI	.E C-N5.4-1 5.17 .E C-N5.4-1 5.9, 5.21				
-UP OF CJP GROOVE WELDS OF HSS T-, Y- & KJOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY) a. JOINT PREPARATION	P/O ¹ O TABI	.E C-N5.4-1 9.11.3 .E C-N5.4-1 9.11.3				
b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL) c. CLEANLINESS (CONDITION OF STEEL SURFACE)	P/O1 O TABI P/O1 O TABI	.E C-N5.4-1 9.11.2 .E C-N5.4-1 9.11.2			-41 PSF -4	
d. TACKING (TACK WELD QUALITY AND LOCATION)7. CONFIGURATION AND FINISH OF ACCESS HOLES	P/O1 O TABI O TABI	E C-N5.4-1 9.11.1 E C-N5.4-1 6.5.2, 5.1 SEE AISC				
8. FIT-UP OF FILLET WELDS a. DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	P/O ¹ O TABL	SECT. J .E C-N5.4-1	6)	-28 PSF		
b. CLEANLINESS (CONDITION OF STEEL SURFACES) c. TACKING (TACK WELD QUALITY AND LOCATION)	P/O1 O TABI P/O1 O TABI	.E C-N5.4-1 5.14 .E C-N5.4-1 5.17		4'-7"		
9. CHECK WELDING EQUIPMENT		E C-N5.4-1 6.2, 5.		(4) (3) (2)		
				SNOW DRIFT PLAN		623 26TH AVENUE ROCK ISLAND, IL 61201 P: 309.788.0673 F: 309.786.5967



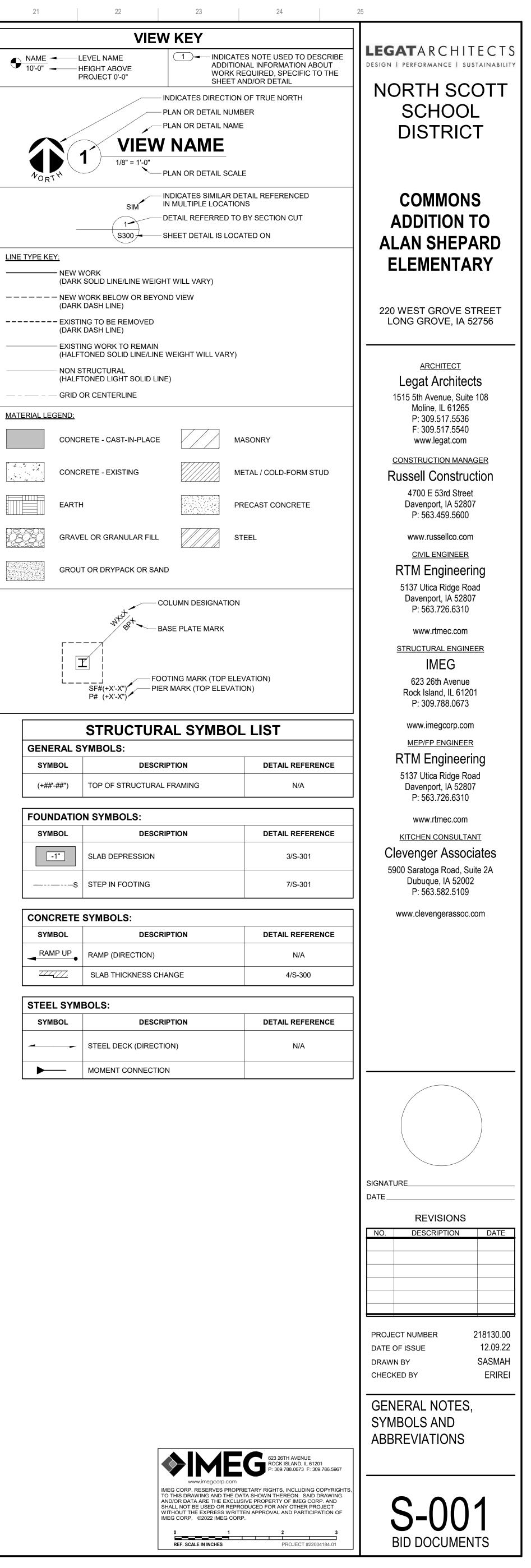


	17	18	19	20	21		22	23	24	
STRUCTURAL ABBREVIATION KEY							VIEV	V KEY		
DESCRIPTION: ABBR: DESCRIPTION:										
	NUMBER OR POUNDS	KSF	KIPS PER SQUARE FOOT	Г			VEL NAME		CATES NOTE USED TO DES TIONAL INFORMATION AB	
	AT	KSI	KIPS PER SQUARE INCH		🖵 10'-0" 🗕		IGHT ABOVE		K REQUIRED, SPECIFIC TO	
	DEGREE	L	LENGTH			PR	OJECT 0'-0"		ET AND/OR DETAIL	-
	DIAMETER EXISTING	LBS	POUNDS LIVE LOAD							
	ANCHOR BOLT	LL LLH	LIVE LOAD				I	NDICATES DIRECT	ION OF TRUE NORTH	
	ARCHITECT, -URE, -URAL		LONG LEG VERTICAL							
	BOTTOM OF	LONG.	LONGITUDINAL					PLAN OR DETAIL N	UMBER	
	BEAM FLANGE WIDTH	LSH	LONG SIDE HORIZONTAL			/		PLAN OR DETAIL N	AME	
	BRACE FRAME	LSV	LONG SIDE VERTICAL							
	BEAM	LT WT	LIGHTWEIGHT				imes VIFW			
	BOUNDARY NAILING	MAX	MAXIMUM			N 1				
	BOTTOM BETWEEN	MECH MANUF	MECHANICAL MANUFACTURER				/ 1/8" = 1'-0"			
	COLD FORM STEEL FRAMING	MIN	MINIMUM			ц <		PLAN OR DETAIL S	CALE	
	CENTER OF GRAVITY OF THE TENDON	NIC	NOT IN CONTRACT		V _{OR} 1					
	COMPLETE JOINT PENETRATION WELD	NTS	NOT TO SCALE							
	CLEAR	OC	ON CENTER				× .	INDICATES SIMILAF	R DETAIL REFERENCED	
	CENTERLINE	ОН	OPPOSITE HAND				SIM		TIONS	
	CONCRETE MASONRY UNIT	OPNG	OPENING					DETAIL REFERRED	TO BY SECTION CUT	
	COLUMN	OSB	ORIENTED STRAND BOA							
	CONCRETE CONNECTION	PCF P.H.	POUNDS PER CUBIC FO				\S300 /-	SHEET DETAIL IS L	OCATED ON	
	CONSTRUCTION	PJP	PARTIAL JOINT PENETRA	ATION WELD						
	CONTINUOUS	PL	PLATE		LINE TYPE KE	γ٠				
	COORDINATION	PLF	POUNDS PER LINEAR FC	ООТ		<u></u>				
	DIAMETER	PSF	POUNDS PER SQUARE F			- NEW WO	ORK			
	DEAD LOAD	PSI	POUNDS PER SQUARE I			(DARK S	OLID LINE/LINE WEIGH	IT WILL VARY)		
	DETAIL	PT	POST-TENSION, -ED, -INC	G						
	DRAWING	R	RADIUS	-0				ND VIEW		
	DOWEL EACH	REINF REQD	REINFORCING, -MENT, -E	ED		(DARK D	ASH LINE)			
	EACH FACE	RTU	ROOF TOP UNIT				G TO BE REMOVED			
	EFFECTIVE	SC	SLIP CRITICAL				ASH LINE)			
	ELEVATION	SCHED	SCHEDULE			(,)			
	ELECTRICAL	SFRS	SEISMIC FORCE-RESIST	ING SYSTEM			G WORK TO REMAIN			
	EMBEDMENT	SIM	SIMILAR			(HALFTC	ONED SOLID LINE/LINE	WEIGHT WILL VAR	Y)	
	EDGE NAILING	SL	SNOW LOAD							
	EDGE OF DECK EDGE OF SLAB	S.M.S. SP	SHEET METAL SCREW SPACE(S)				RUCTURAL)NED LIGHT SOLID LIN			
	EQUAL	SPECS	SPECIFICATION(S)			(HALFIC	INED LIGHT SOLID LIN	C)		
	EQUIPMENT	SQ	SQUARE				RCENTERLINE			
	ETCETERA	STIFF	STIFFENER							
	EACH WAY	STL	STEEL		MATERIAL LEC					
	EXPANSION	SYM	SYMMETRICAL							
	EXTERIOR CONCRETE COMPRESSIVE STRENGTH	T&B T.O.	TOP AND BOTTOM							
	FOUNDATION	T.O. TC	PRE-TENSIONED BOLT			CONCRE	ETE - CAST-IN-PLACE		MASONRY	
	FIELD NAILING	TEMP	TEMPERATURE							
	FOOT	tf	BEAM FLANGE THICKNES	SS						
	FOOTING	ТНК	THICK							
	YIELD STRESS	TRANS	TRANSVERSE		4	CONCRE	ETE - EXISTING		METAL / COLD-FORM ST	UL
	GAGE OR GAUGE	TYP	TYPICAL							
	GALVANIZED	UON	UNLESS OTHERWISE NO	DTED				しんさくさいづき		
		VERT VIF				EARTH			PRECAST CONCRETE	
	HEADED STUD ANCHOR HIGH STRENGTH BOLT	W/	VERIFY IN FIELD WITH							
	JOINT	WP	WORK POINT							
	KILOPOUND (1,000 POUNDS)	WT	WEIGHT		<u> </u>	00.00	00 00 00 00 00 00 00 00 00 00 00 00 00		07551	
		WWR	WELDED WIRE REINFOR	RCING	A A A A	GRAVEL	OR GRANULAR FILL		STEEL	
								V_//_//_		
						CDOUT				

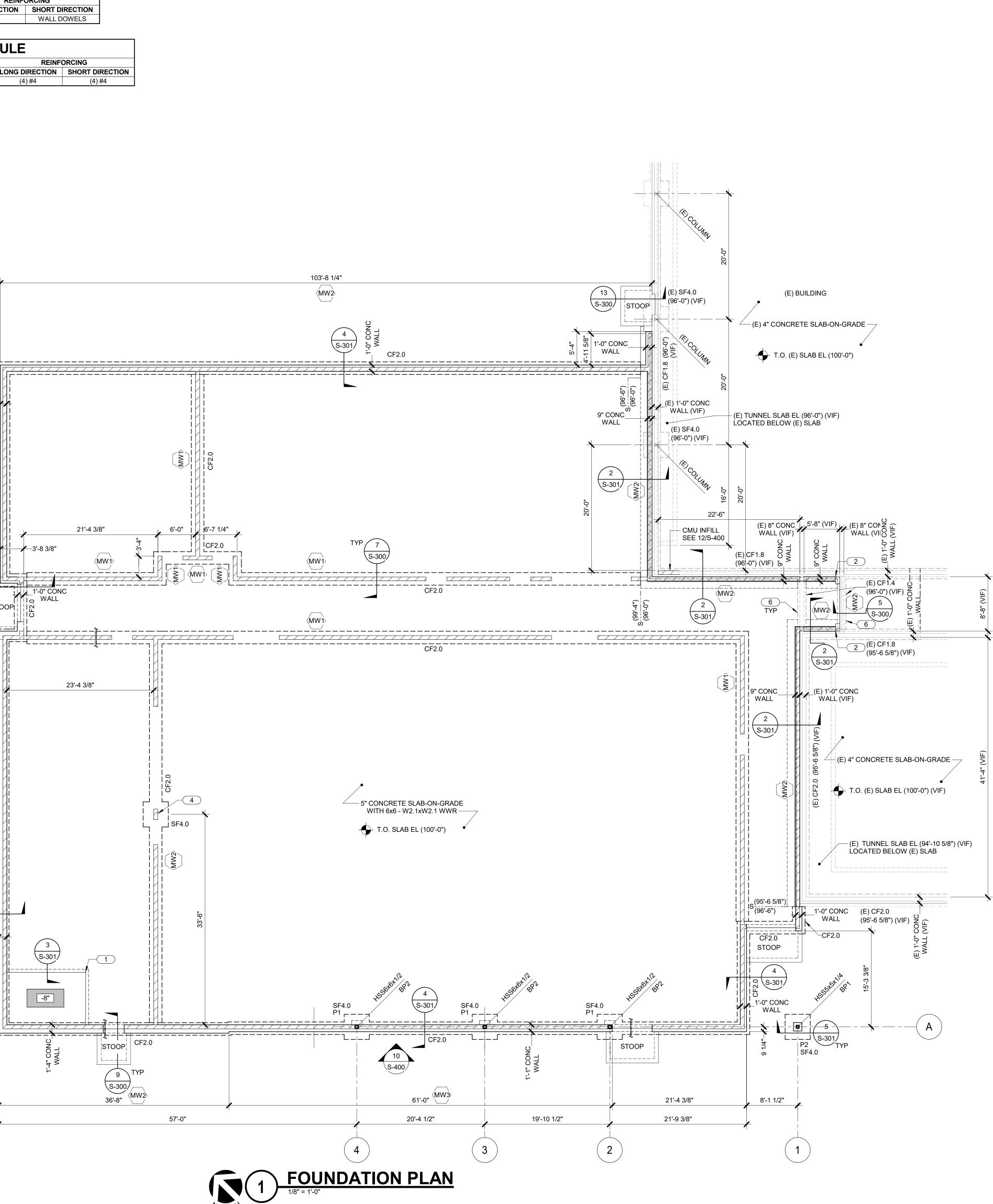


	FOOTING MARK (TOP ELEVATIONS F#(+X'-X") PIER MARK (TOP ELEVATIONS) P# (+X'-X")		
	STRUCTURAL SYMBOL	LIST	
GENERAL S	YMBOLS:		
SYMBOL	DESCRIPTION		
(+##'-##")	N/A		
FOUNDATIO	N SYMBOLS:		
SYMBOL	DESCRIPTION		
-1"	SLAB DEPRESSION	3/S-301	
S	STEP IN FOOTING	7/S-301	
CONCRETE	SYMBOLS:		
SYMBOL	DESCRIPTION		
RAMP UP	RAMP (DIRECTION)	N/A	

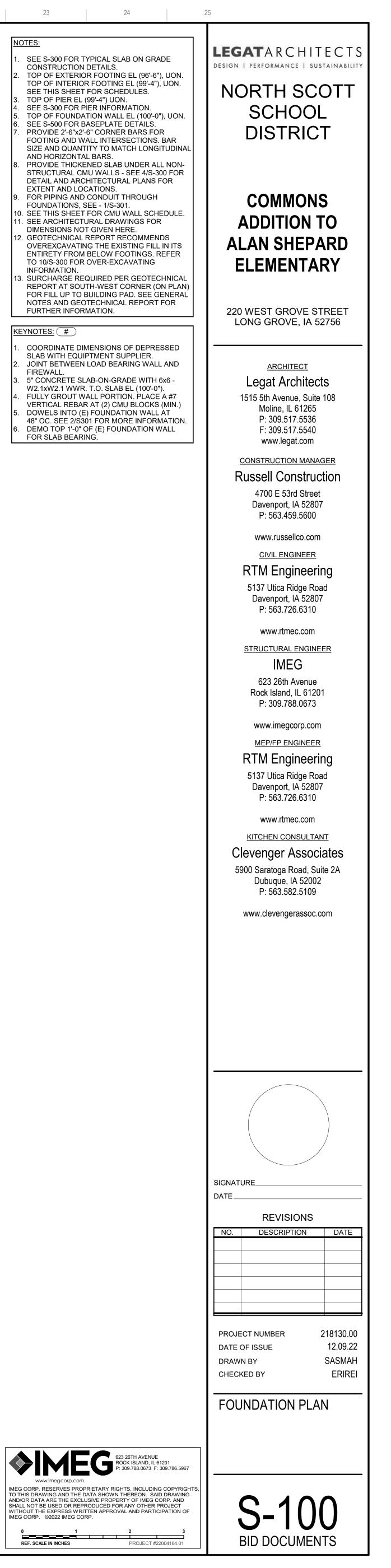
STEEL SYM	IBOLS:	
SYMBOL	DESCRIPTION	DETAIL REFEREN
	STEEL DECK (DIRECTION)	N/A
	MOMENT CONNECTION	

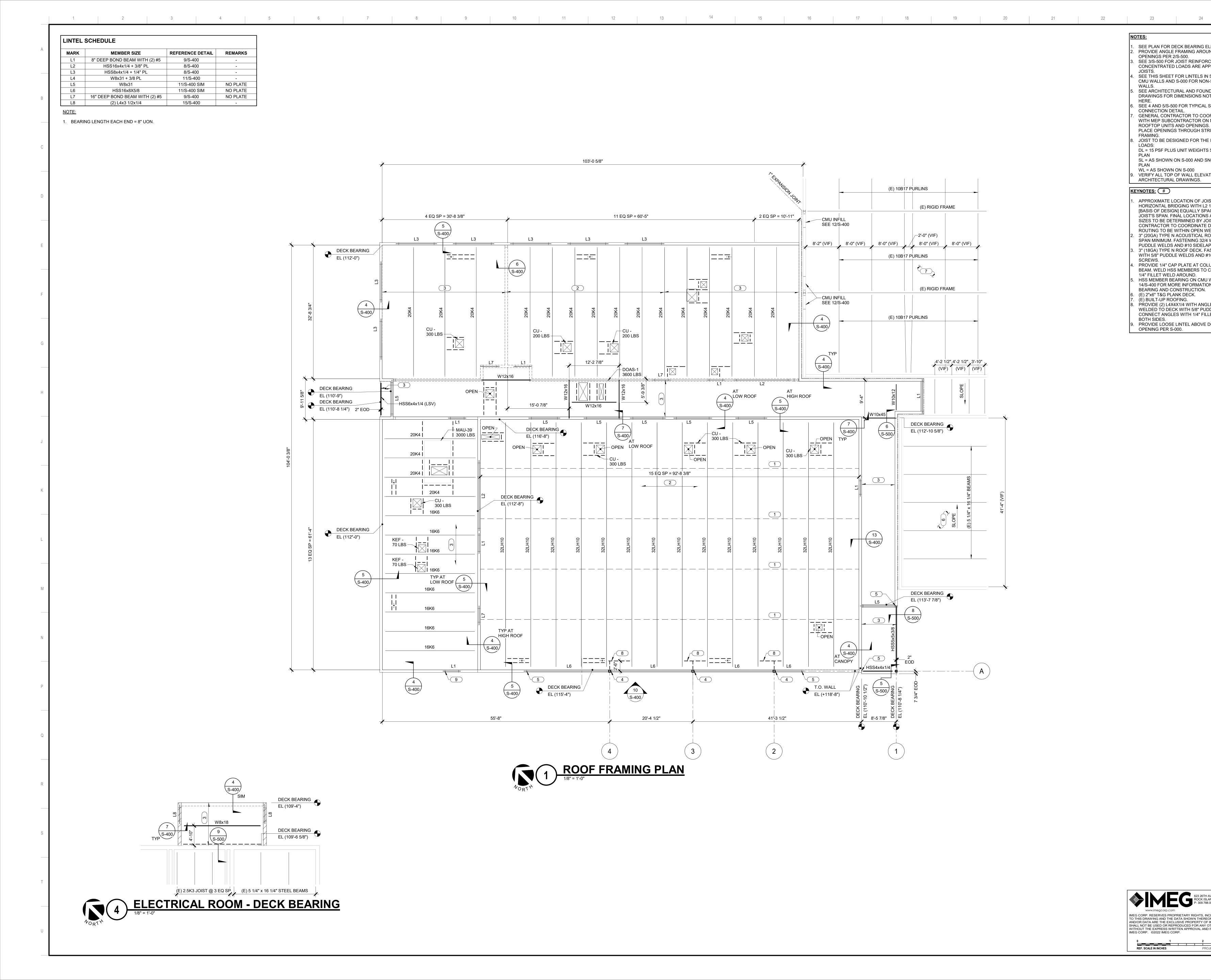


1 2 3 4 5	7 8 9 10 11 12 13 14 15 16 17 18 19 20 2	21 22
	INUOUS FOOTING SCHEDULE	
A WALL THICKNESS HORIZONTAL VERTICAL REMARKS EXTERIOR FACE INTERIOR FACE INTERIOR FACE<	WIDTHTHICKNESSLONG DIRECTIONSHORT DIRECTION2'-0"1'-0"(2) #5WALL DOWELS	
FROST WALLS: #5 @ 18" OC - #5 @ 12" OC - SEE NOTE 1	AD FOOTING SCHEDULE	
NOTE: MARK	LENGTH WIDTH THICKNESS LONG DIRECTION SHORT DIRECTION	
1. CENTERED IN WALL THICKNESS. SF4.0 CMU WALL REINFORCING SCHEDULE	4'-0" 1'-0" (4) #4	
MARK		
WALL MW# WALL THICKNESS VERTICAL BAR SIZE AND SPACING REMARKS C MW1 8" #5 @ 32" OC -		
MW2 8" #5 @ 48" OC TYP WALL CONFIGURATION, UON. MW3 8" #5 @ 48" OC GROUT ALL CORES CMU WALL LOCATED BEHIND WINDOWS, NOT FULL HEIGHT. SEE ARCH. REINFORCEMENT		
MW3 8" #5 @ 48" OC GROUT ALL CORES CMU WALL LOCATED BEHIND WINDOWS, NOT FULL HEIGHT. SEE ARCH. REINFORCEMENT ONLY APPLIED TO BOTTOM PORTION. MW4 10" #5 @ 48" OC NRG BLOCK CONFIGURATION		
 NOTES: 1. TYP HORIZ REINF PER SPECIFICATIONS AND IS INTENDED TO BE A 'DUROWALL - TRUSS TYPE' 	(E) COLUMN	
OR EQUIVALENT. 2. 'GROUT ALL CORES' INDICATES EVERY REINFORCED CORE AND UNREINFORCED CORE. 3. REINFORCED CORES ARE ALWAYS GROUTED.		
	103'-8 1/4"	
E CMU REINFORCING BAR DEVELOPMENT LENGTH (Ld)	(E) SF4.0 (E) BUILDING S-300/ STOOP (96'-0") (VIF)	
SCHEDULE f'm=2000 PSI CMU THICKNESS REINFORCING LOCATION BAR SIZE Ld	(E) 4" CONCRETE SLAB-ON-GRADE	
#4 13" SINGLE LAYER, #5 20"	$\begin{array}{c c} & & & & & & \\ \hline & & & & \\ \hline \hline & & & \\ \hline & & & \\ \hline & & & \\ \hline \hline & & & \\ \hline \hline & & & \\ \hline \hline \\ \hline & & & \\ \hline \hline & & & \\ \hline \hline \\ \hline \hline & & & \\ \hline \hline \\ \hline \hline \\ \hline \hline \\$	
F REINF CENTERED 1N WALL #6 38" #7 52" NOTE 5		
NOTES: 1. CONTRACTOR TO PROVIDE LAP SPLICE LENGTHS TO		
MATCH Ld VALUES PROVIDED IN SCHEDULE OR USE MECHANICAL SPLICES ADEQUATE FOR 125% OF SPECIFIED YIELD STRENGTH OF THE BAR. 2. WHERE TWO DIFFERENT SIZES OF REINFORCING BARS	9" CONC WALL (VIF) WALL (E) SF4.0 (E) SF4.0 (96'-0") (VIF)	
 WHERE TWO DIFFERENT SIZES OF REINFORCING BARS ARE LAPPED, PROVIDE Ld FOR SMALLER REINFORCING BAR. 3. DOWEL EMBEDMENT INTO CONCRETE SHALL CONFORM 		
TO THE REQUIREMENTS OF THE CAST-IN-PLACE CONCRETE GENERAL NOTES. 4. WHEN EPOXY-COATED REINFORCING BARS ARE USED,	2 348	
INCREASE TABULATED VALUES BY A FACTOR OF 1.5. 5. MORTAR FINS TO BE REMOVED.		
Н	21'-4 3/8" 6'-0" 6'-7 1/4" (E) 8" CONC 5'-8" (VIF) WALL (VIF) WALL (VIF) WALL (VIS) U CT 0 CT 0 C	
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	
	S-300 S-	
J	$ \begin{array}{c} 1 \\ 1 \\ 0 \\ 1 \\ 1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	
		-
	CF2.0	
K	23'-4 3/8" 9" CONC(E) 1'-0" CONC WALLWALL (VIF)	
	T.O. (E) SLAB EL (100'-0") (VIF) 5" CONCRETE SLAB-ON-GRADE	
M	5" CONCRETE SLAB-ON-GRADE WITH 6x6 - W2.1xW2.1 WWR SF4.0 T.O. SLAB EL (100'-0")	
	(E) TUNNEL SLAB EL (94'-10 5/8") (VIF) LOCATED BELOW (E) SLAB	
Ν	8	
	^o	
	WALL 3 S-301 1 1 1 1 1 1 1 1 1 1 1 1 1	
P	$\frac{1}{1}$	
	$\begin{array}{c} & & & \\ \hline \\ \hline$	
Q	NON THE CF2.0 CF2.	
	$\frac{9}{S-300}$	
22'-0 3/4"	36'-8" MW2 36'-8" 8'-1 1/2" 57' 0" 20' 4 1/2"	
	57'-0" 20'-4 1/2" 21'-9 3/8"	
(95'-7") (MW4) ÷ ₹	$\begin{pmatrix} 4 \\ \end{pmatrix} \qquad \begin{pmatrix} 2 \\ \end{pmatrix}$	
TYP 9 STOOP 5-300	FOUNDATION PLAN	
	NORTH	
O (↓ (95'-7") (VIF) (↓ (E) 12" CMU O (↓ (95'-7") (VIF) (↓ (E) 12" CMU O (↓ (VIF) (↓ (E) 4" CONCRETE SLAB	CE1.8 Y-7") (VIE	
T $\widehat{\underline{u}} \stackrel{>}{\cong} \widehat{\underline{u}} \stackrel{>}{\boxtimes} \widehat{\underline{u}} \stackrel{>}{\boxtimes} \widehat{\underline{u}} \stackrel{>}{\boxtimes} \widehat{\underline{u}} \stackrel{=}{\longrightarrow} T.O. (E) SLAB EL (100'-0") (VIF$	(E) 12" CMU WALL (VIF)	
(E) 4" CMU WALL (VIF) (E) 6" CMU WALL (VIF) (E) 12" CMU		
$\frac{5}{1/8"} = 1'-0"$		



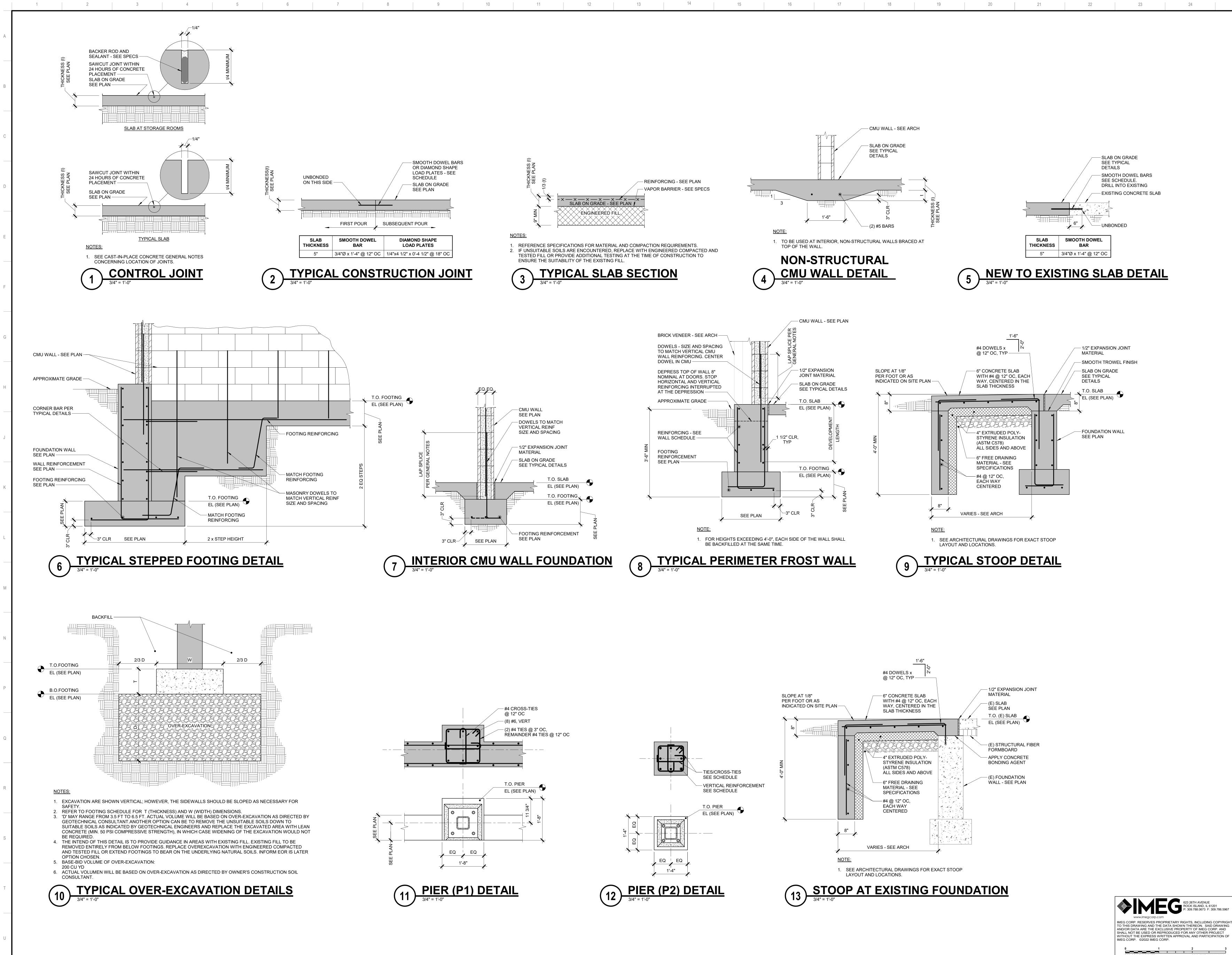
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NO	TES:		
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13.	CONSTRUCTION TOP OF EXTERIO TOP OF INTERIO SEE THIS SHEET TOP OF PIER EL SEE S-300 FOR F TOP OF FOUNDA SEE S-500 FOR B PROVIDE 2'-6"x2" FOOTING AND W SIZE AND QUANT AND HORIZONTA PROVIDE THICKE STRUCTURAL CM DETAIL AND ARC EXTENT AND LOO FOR PIPING AND FOUNDATIONS, S SEE THIS SHEET SEE ARCHITECT DIMENSIONS NO GEOTECHNICAL OVEREXCAVATIN ENTIRETY FROM TO 10/S-300 FOR INFORMATION. SURCHARGE RE REPORT AT SOU FOR FILL UP TO	OR FOOTING EL (96'-4 R FOOTING EL (99'-4' FOR SCHEDULES. (99'-4") UON. HER INFORMATION. TION WALL EL (100'- ASEPLATE DETAILS. 6" CORNER BARS FO ALL INTERSECTIONS TTY TO MATCH LONG L BARS. ENED SLAB UNDER A MU WALLS - SEE 4/S- CHITECTURAL PLANS CATIONS. CONDUIT THROUGH SEE - 1/S-301. FOR CMU WALL SCI URAL DRAWINGS FO T GIVEN HERE. REPORT RECOMME IG THE EXISTING FIL BELOW FOOTINGS. OVER-EXCAVATING QUIRED PER GEOTE TH-WEST CORNER (BUILDING PAD. SEE O TECHNICAL REPOR	5"), U 0"), U 0"), U OR 5. B/ GITU 300 5 FO H HED 0R NDS L IN REF ON GEN
KE	<u>YNOTES:</u> (#)		
1.		MENSIONS OF DEPR PTMENT SUPPLIER.	ESS
2.	JOINT BETWEEN FIREWALL.	LOAD BEARING WA	LL A
3.		.AB-ON-GRADE WITH . T.O. SLAB EL (100'-(
4.	FULLY GROUT W	ALL PORTION. PLAC R AT (2) CMU BLOCK	ΕA
5.	DOWELS INTO (E) FOUNDATION WAL 01 FOR MORE INFOR	L À





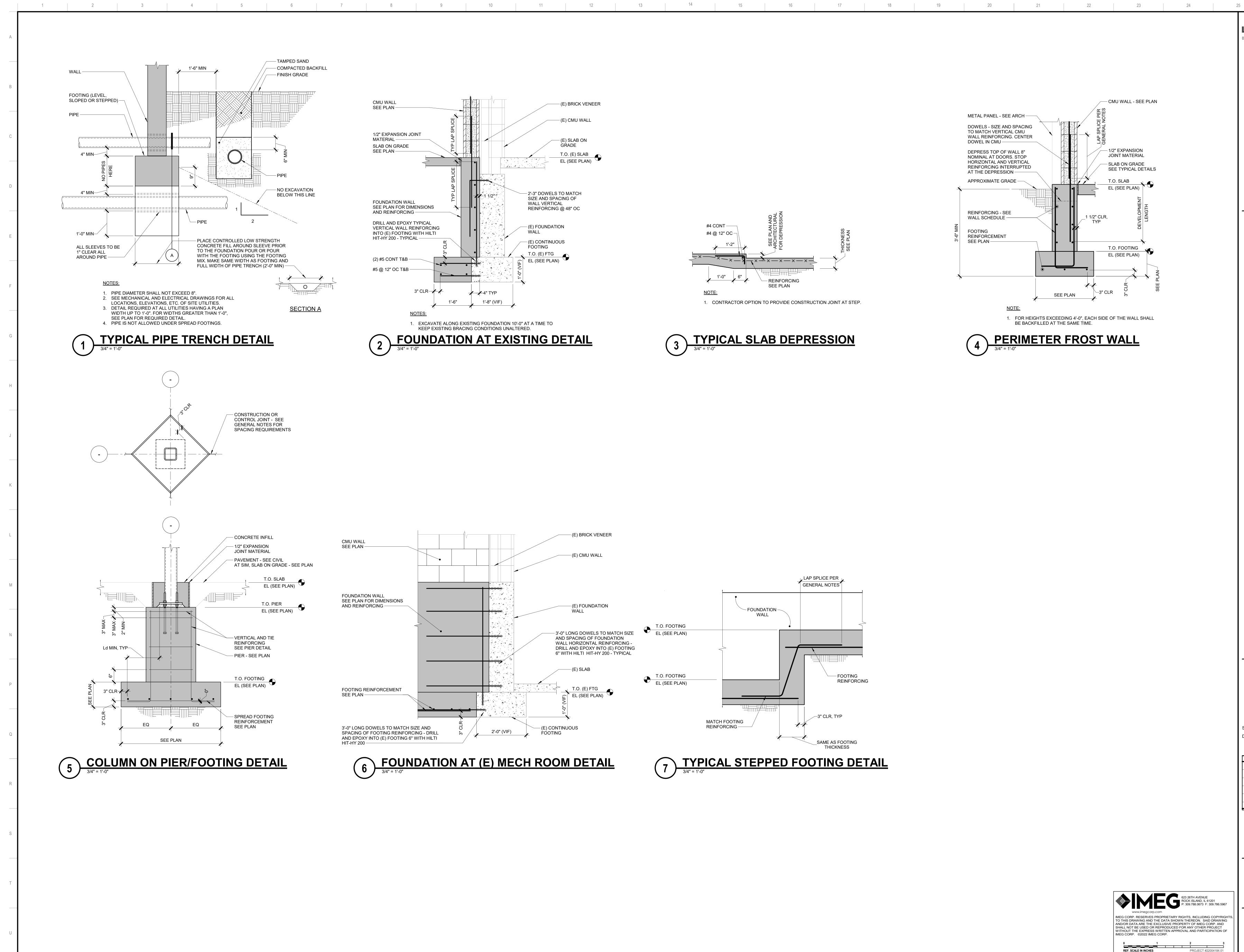
	23		24	
_				
NO	<u>TES:</u>			
1. 2.	SEE PLAN FOR DE PROVIDE ANGLE F	RAMING A		
3.	OPENINGS PER 2/ SEE 3/S-500 FOR CONCENTRATED	JOIST REIN		
4.	JOISTS. SEE THIS SHEET F CMU WALLS AND	-		
5.	WALLS. SEE ARCHITECTU DRAWINGS FOR D			
6.	HERE. SEE 4 AND 5/S-500	-	CAL SHEAR	
7.	CONNECTION DET GENERAL CONTR WITH MEP SUBCC ROOFTOP UNITS / PLACE OPENINGS	ACTOR TO NTRACTOR AND OPENI	R ON MECHA NGS. DO NO	\ }
8.	FRAMING. JOIST TO BE DESI LOADS:			
	DL = 15 PSF PLUS PLAN SL = AS SHOWN C PLAN			
9.	WL = AS SHOWN (VERIFY ALL TOP (ARCHITECTURAL	OF WALL EL		v
KE	YNOTES: (#)			
1.	APPROXIMATE LC HORIZONTAL BRIE [BASIS OF DESIGN JOIST'S SPAN. FIN SIZES TO BE DETR	DGING WITI I] EQUALLY IAL LOCATI ERMINED B	H L2 1/2x 2 1/ / SPACED O ONS AND AN Y JOIST SUF	1
2.	CONTRACTOR TO ROUTING TO BE V 3" (20GA) TYPE N / SPAN MINIMUM. F	VITHIN OPE ACOUSTIC	EN WEB JOIS	С
3.	PUDDLE WELDS A 3" (18GA) TYPE N WITH 5/8" PUDDLE	ND #10 SIE ROOF DEC	DELAP SCRE' K. FASTENIN	V
4.	SCREWS. PROVIDE 1/4" CAF BEAM. WELD HSS			

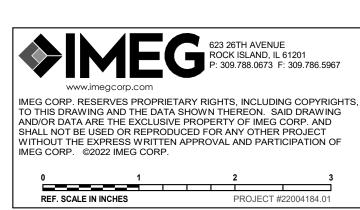




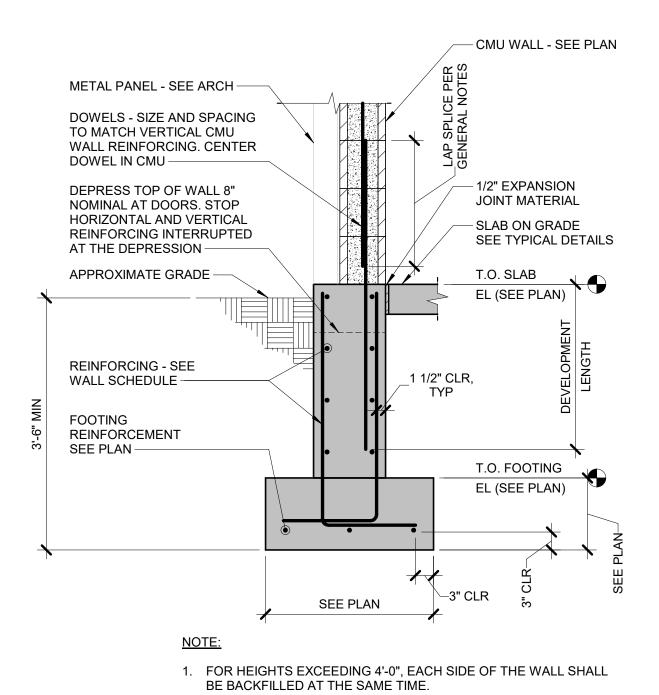
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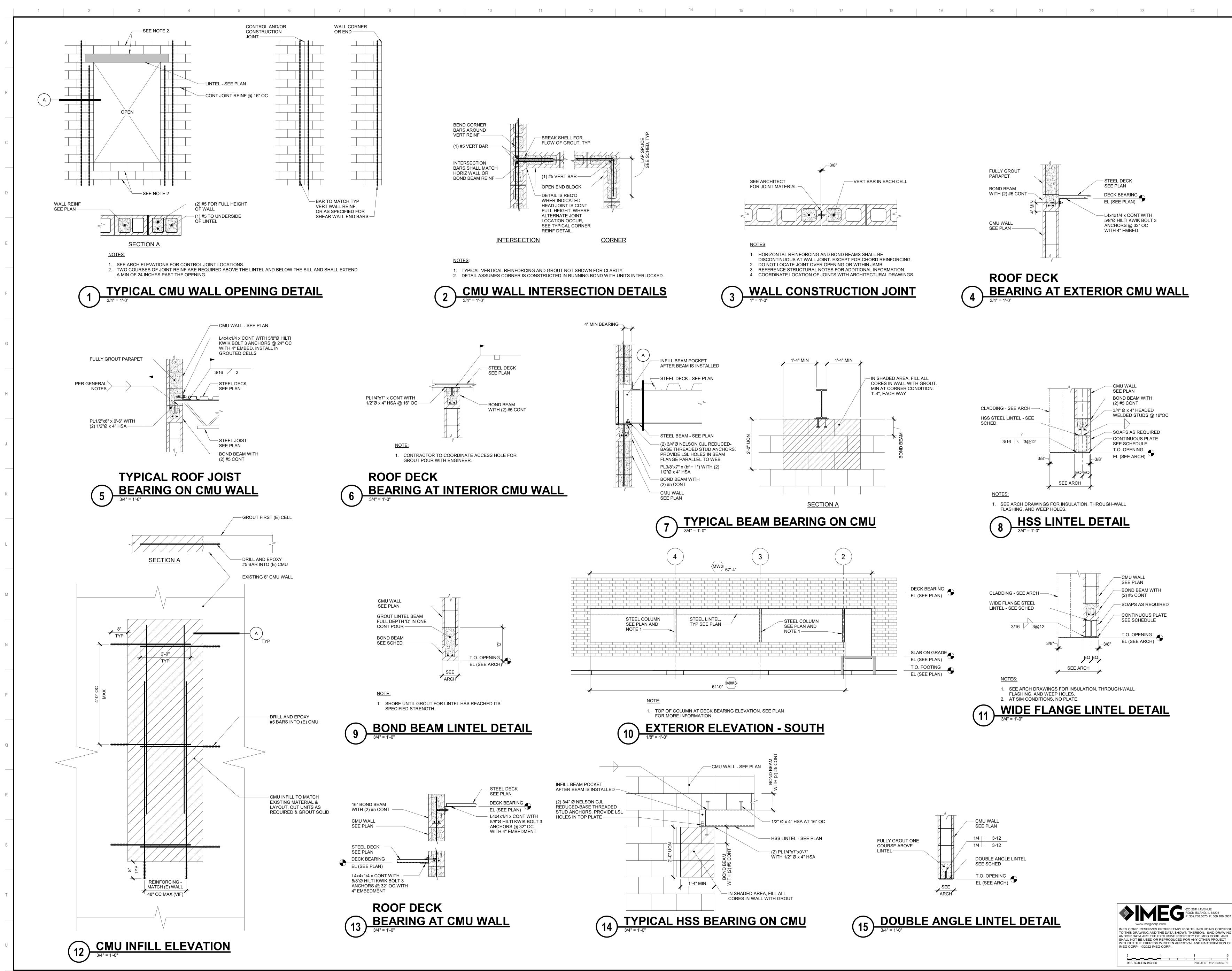


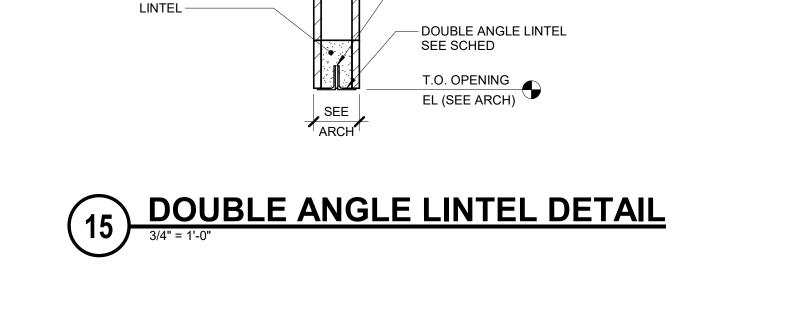


PERIMETER FROST WALL







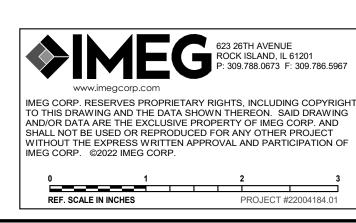


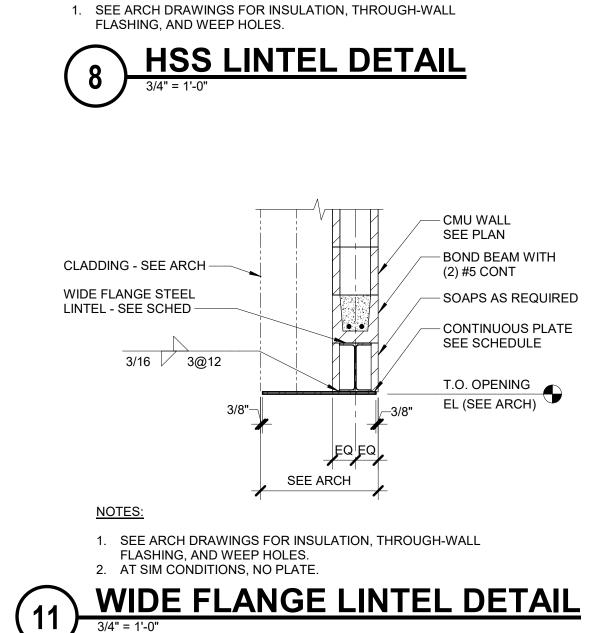
- CMU WALL

SEE PLAN

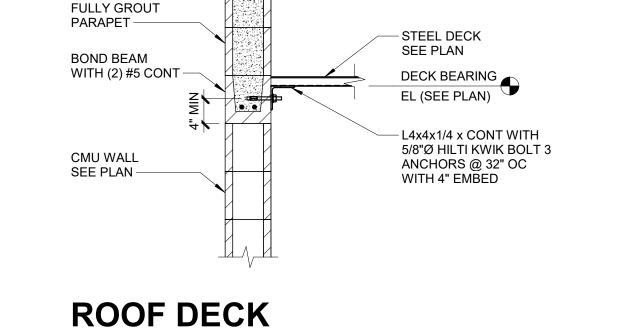
1/4 | 3-12

1/4 3-12





SEE ARCH



BEARING AT EXTERIOR CMU WALL

CMU WALL

SEE PLAN

(2) #5 CONT

- BOND BEAM WITH

3/4" Ø x 4" HEADED

- SOAPS AS REQUIRED

- CONTINUOUS PLATE

SEE SCHEDULE

T.O. OPENING EL (SEE ARCH)

WELDED STUDS @ 16"OC

4

CLADDING - SEE ARCH -

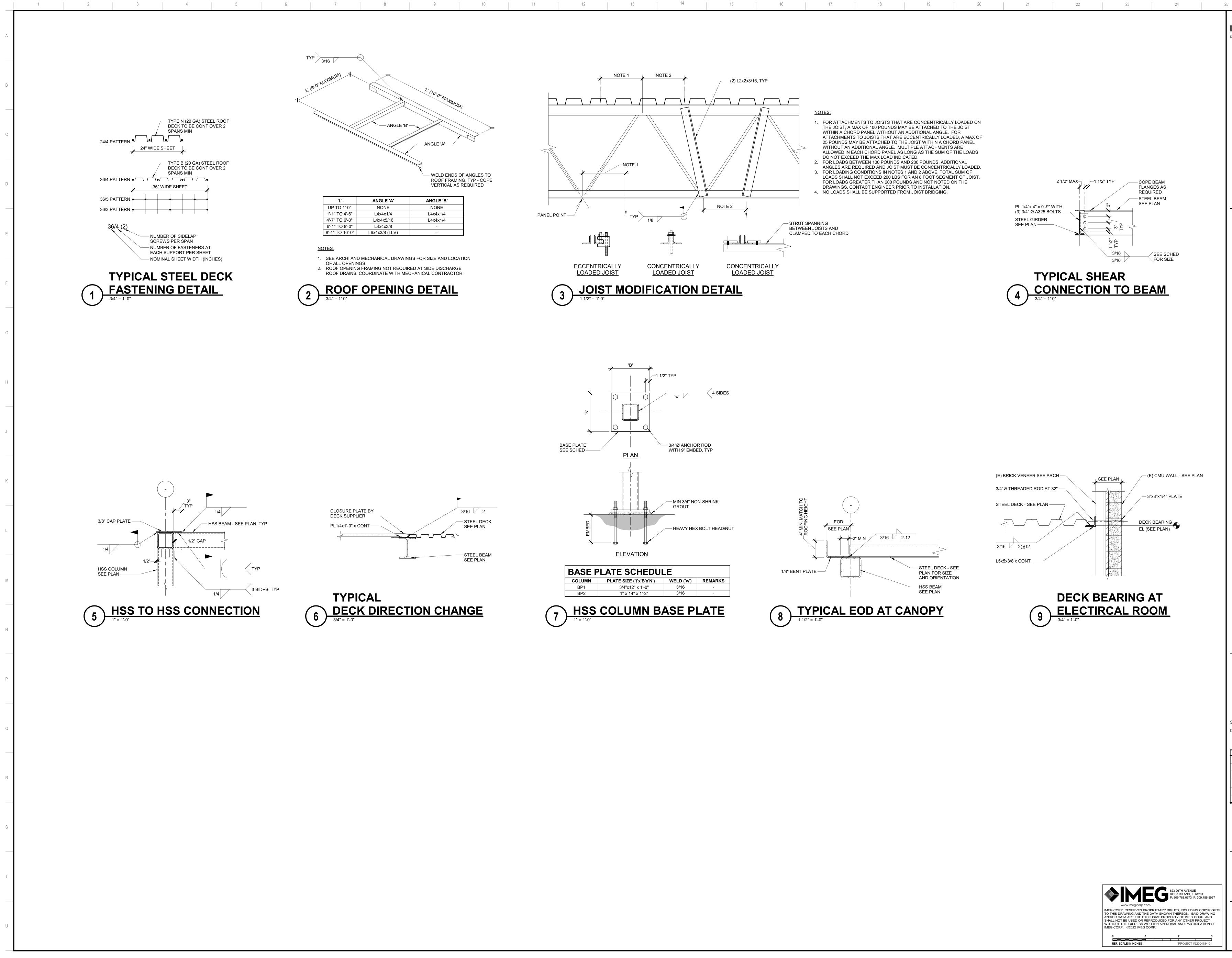
HSS STEEL LINTEL - SEE

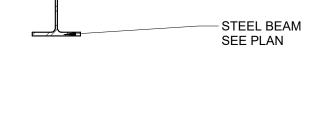
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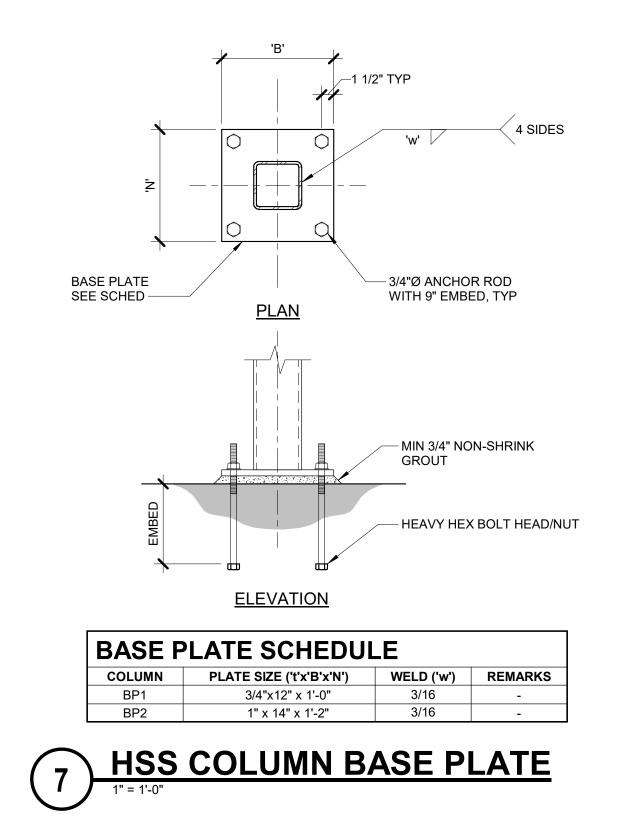
3/16 3@12

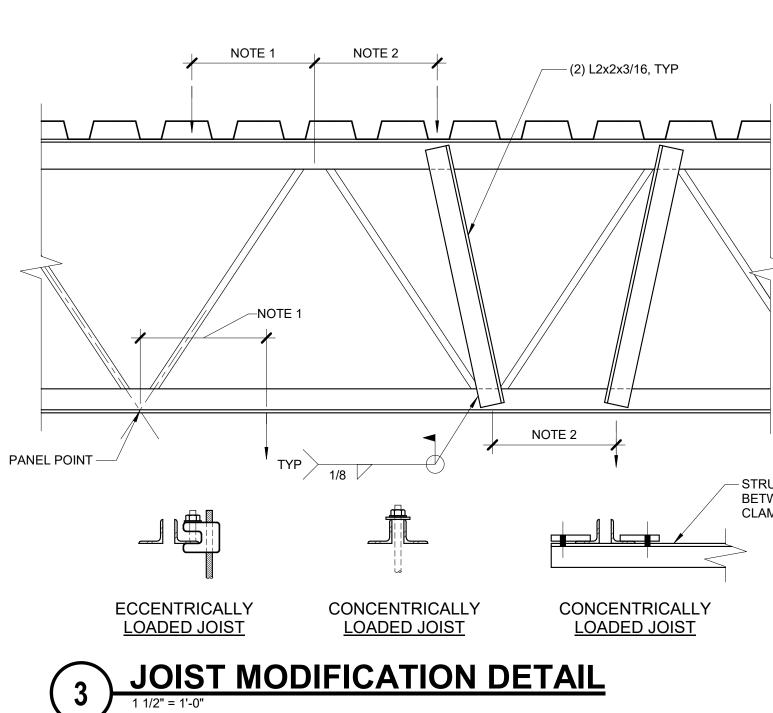
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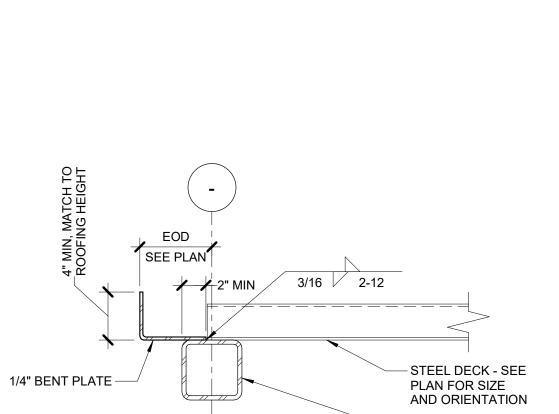






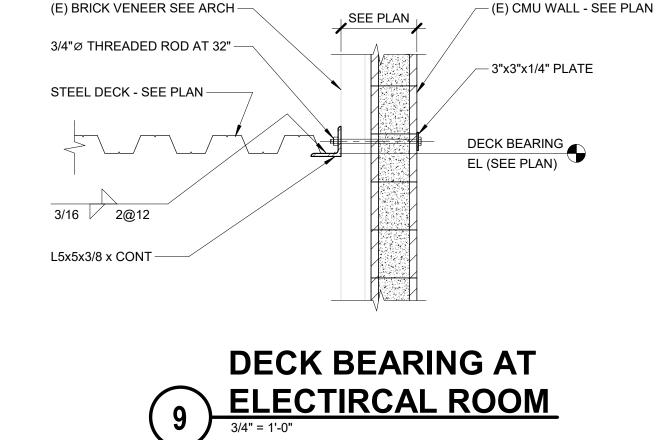
NOTES: 1. FOR ATTACHMENTS TO JOISTS THAT ARE CONCENTRICALLY LOADED ON THE JOIST, A MAX OF 100 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. FOR ATTACHMENTS TO JOISTS THAT ARE ECCENTRICALLY LOADED, A MAX OF 25 POUNDS MAY BE ATTACHED TO THE JOIST WITHIN A CHORD PANEL WITHOUT AN ADDITIONAL ANGLE. MULTIPLE ATTACHMENTS ARE ALLOWED IN EACH CHORD PANEL AS LONG AS THE SUM OF THE LOADS DO NOT EXCEED THE MAX LOAD INDICATED. 2. FOR LOADS BETWEEN 100 POUNDS AND 200 POUNDS, ADDITIONAL ANGLES ARE REQUIRED AND JOIST MUST BE CONCENTRICALLY LOADED. 3. FOR LOADING CONDITIONS IN NOTES 1 AND 2 ABOVE, TOTAL SUM OF LOADS SHALL NOT EXCEED 200 LBS FOR AN 8 FOOT SEGMENT OF JOIST. FOR LOADS GREATER THAN 200 POUNDS AND NOT NOTED ON THE DRAWINGS. CONTACT ENGINEER PRIOR TO INSTALLATION. 4. NO LOADS SHALL BE SUPPORTED FROM JOIST BRIDGING.

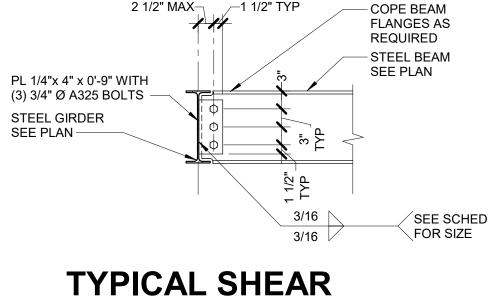
- STRUT SPANNING BETWEEN JOISTS AND CLAMPED TO EACH CHORD



8 TYPICAL EOD AT CANOPY

HSS BEAM SEE PLAN





__1 1/2" TYP





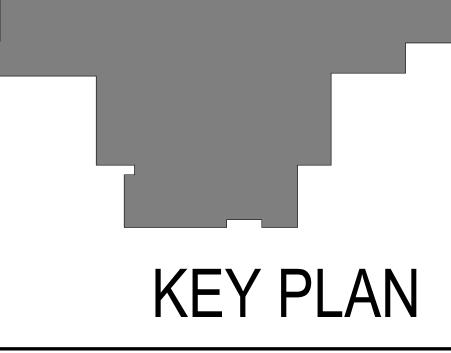




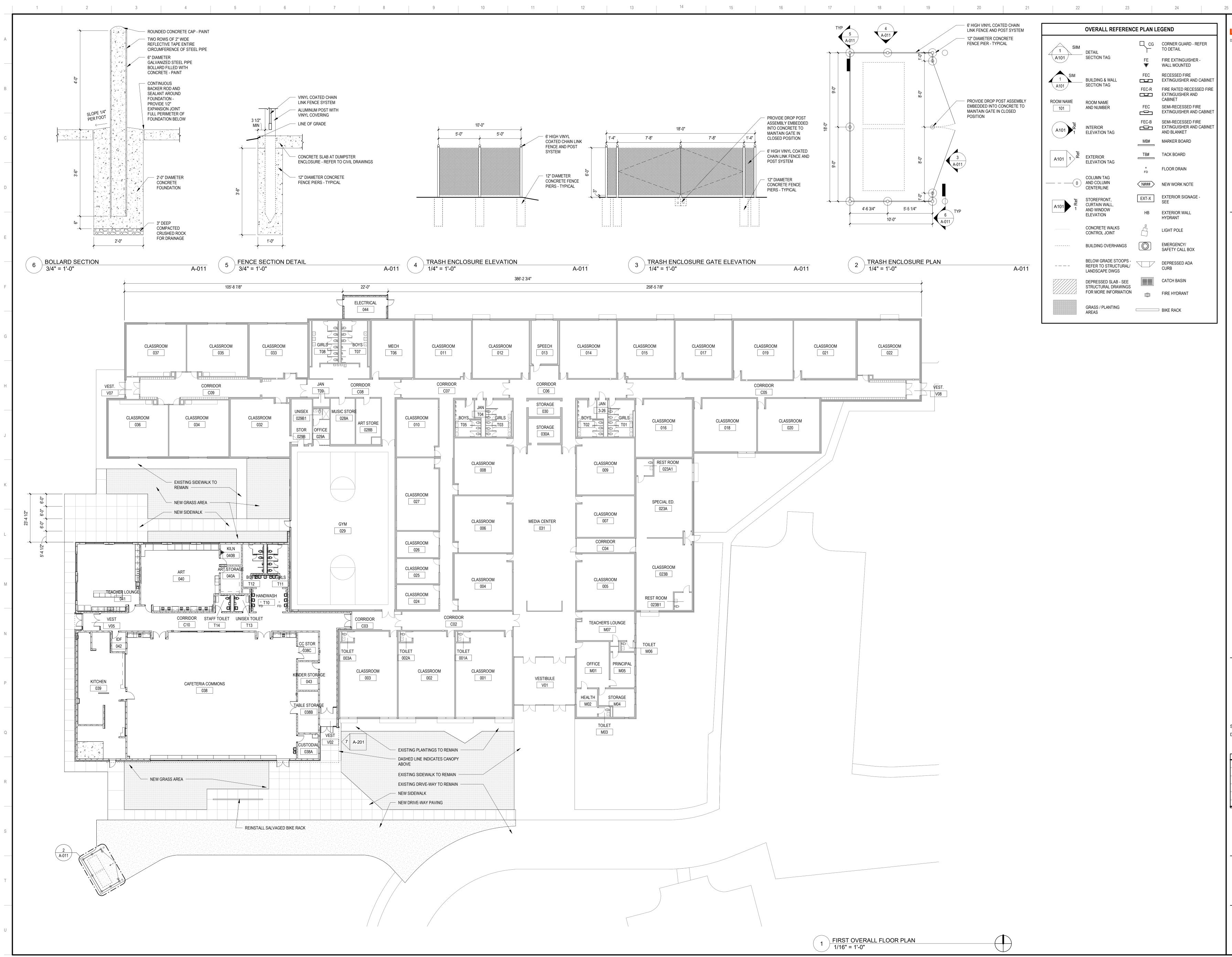
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9. DO NOT COMMENCE DEMOLITION UNTIL OWNER HAS REMOVED ALL ARTW	
 COORDINATE WITH OWNER ACCESS AND LOCATIONS OF TEMPORARY PAR TEMPORARY PARTITION MUST BE DUSTPROOF, AND ACT AS SMOKE AND F BARRIER. 	IRE
 AT REMOVAL OF SELECTED DEMOLITION ITEMS WHERE NO NEW CONSTRUIDENTIFIED, PATCH, CLEAN, PREPARE, AND PAINT SURFACES TO MATCH FICOLOR, TEXTURE AND SHEEN OF ADJACENT SURFACES. AT ITEMS TO BE REMOVED, ALSO REMOVE ALL ASSOCIATED BRACKETS, S 	INISH
FASTENERS, ANCHORS, ETC. PATCH, CLEAN, PREPARE, AND PAINT SURFA MATCH FINISH COLOR, TEXTURE AND SHEEN OF ADJACENT SURFACES. 13. PATCH ALL CEILINGS, WALLS AND FLOORS WHERE MECHANICAL, ELECTRIC	CES
TECHNOLOGY, PLUMBING AND FIRE PROTECTION COMPONENTS ARE TO B REMOVED IN AN EXISTING CEILINGS, WALLS OR FLOORS TO REMAIN. 4. ALL WALL DEMOLITION SHALL HAVE CLEAN, VERTICAL, SMOOTH CUTS. PA REPLACE AND/OR FILL VOIDS IN WALLS TO REMAIN TO PROVIDE A SMOOTH	TCH,
SURFACE/EDGE FOR THE APPLICATION OF NEW FINISH MATERIAL. 15. WHEN REMOVING EXISTING WALL TILE, FLOOR TILE, RUBBER BASE OR CEI REMOVE FINISHES TO THE NEAREST JOINT WHICH ABUTS TILE NOT AFFEC	LING TED
THE CONSTRUCTION. PROTECT THE SURFACES AND EDGES OF EXISTING TO REMAIN. 16. AT IDENTIFIED AREAS OF SPALLED, UNEVEN AND/OR SEPARATED CONCRE REMOVE ALL LOOSE MATERIAL; GRIND CONCRETE TO ACHIEVE A LEVEL SI	TE S
AND FILL CRACKS AND SPALLED AREAS IN PREPARATION FOR INSTALLATIO FINISHED FLOORING. 7. CONTRACTOR SHALL REMOVE EXISTING PLUMBING, MECHANICAL, ELECTR	ON C
OTHER MISCELLANEOUS ITEMS REQUIRED TO COMPLETE NEW WORK BUT REQUIRED TO REMAIN. 18. WHEN REMOVING INTERIOR OR EXTERIOR WALL ASSEMBLIES, CONTRACTOR	NOT
ALSO REMOVE ALL ASSOCIATED POWER AND DATA RECEPTACLES, SWITC REROUTE CONCEALED MEPFP WHERE REQUIRED TO MAINTAIN FUNCTION SYSTEMS; REMOVE ABANDONED MEPFP SYSTEMS TO SOURCE AND CAP	HES, ING
APPROPRIATELY. REFER TO MECHANICAL, ELECTRICAL, TECHNOLOGY, LC VOLTAGE, PLUMBING AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.	W
 CONTRACTOR SHALL REMOVE ALL DEBRIS AND TRASH RESULTING FROM CONSTRUCTION ON A DAILY BASIS. CONTRACTOR SHALL RECYCLE DEMOLITION CONSTRUCTION DEBRIS IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION AND SUSTAINABI 	<u> </u>
PRACTICES. 1. IN THE EVENT HAZARDOUS MATERIALS ARE UNCOVERED CONTRACTOR IS NOTIFY THE CONSTRUCTION MANAGER AND THE APPROPRIATE AUTHORIT	ТО
ARCHITECT IS NOT RESPONSIBLE FOR REMOVAL / ABATEMENT OF HAZARI MATERIALS. CONTRACTOR TO PROVIDE REMOVAL / ABATEMENT AT LOCA NECESSARY.	TES.
22. REFER TO THE CIVIL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTE AND ELECTRICAL DRAWINGS FOR THE DEMOLITION WORK SPECIFIC TO TH DISCIPLINES.	DOU: TION
23. STRUCTURAL ITEMS SHOWN AS 'TO BE REMOVED' ARE FOR REFERENCE O VERIFY APPROPRIATE SHORING OR REINFORCEMENT CONDITION WITH STRUCTURAL DRAWINGS.	DOU: TION CTIC
DEMOLITION NOTES (D##.##)	DOUS TION CTIC
	DOU: TION CTIC

NOTE	DESCRIPTION
D02.01	REMOVE EXISTING STORAGE SHED.
D02.02	REMOVE EXISTING FENCE ENCLOSURE SYSTEM IN ITS ENTIRETY.
D03.01	REMOVE EXISTING STOOP SYSTEM AND PREPARE FOR NEW FLOOP
D04.01	REMOVE PORTION OF EXISTING MASONRY WALL SYSTEM AND WIN ABOVE AND PREP SURFACES FOR INSTALLATION OF NEW STOREFI SYSTEM.
D07.01	REMOVE EXISTING AWNING SYSTEM.
D07.02	REMOVE EXISTIN DOWNSPOUT AND PROVIDE NEW DRAIN ONTO AD
D07.03	REMOVE EXISTING METAL WALL PANEL SYSTEM ENTIRELY. PROVID BRICK INFILL TO MATCH EXISTING. TOOTH IN FULL UNITS.
D07.04	REMOVE EXISTING METAL WALL PANEL SYSTEM ENTIRELY. PROVID INFILL, TOOTH IN FULL UNITS.
D07.05	REMOVE EXISTING MANSARD METAL PANEL SYSTEM AND COPING. EXISTING FRAMING TO PROVIDE APPROPRIATE SUBSTRATE FOR N WALL PANEL SYSTEM. MODIFY CORNERS OF MANSARD ACCORDING TO PHOTOS ON SHEET FOR ADDITIONAL INFORMATION.
D08.01	REMOVE EXISTING DOOR AND FRAME ENTIRELY. INFILL OPENING W MASONRY TO MATCH EXISTING AND PAINT TO MATCH. PATCH AND ADJACENT SURFACES AS REQUIRED.
D08.02	REMOVE EXISTING STOREFRONT SYSTEM. PATCH AND REPAIR WAI MATCH SURROUNDING WALL FINISHES.
D08.03	REMOVE EXISTING WINDOW SYSTEM ENTIRELY. PROVIDE MASONR MATCH EXISTING. TOOTH IN FULL UNITS.
D09.01	REMOVE EXISTING SOFFIT SYSTEM, LIGHTS, FASCIA, ETC. AS REQU INSTALLATION OF NEW CONSTRUCTION.
D26.01	REMOVE EXISTING EXTERIOR LIGHT FIXTURE ENTIRELY. PATCH AN
D26.02	REMOVE EXISTING CARD READER SYSTEM.



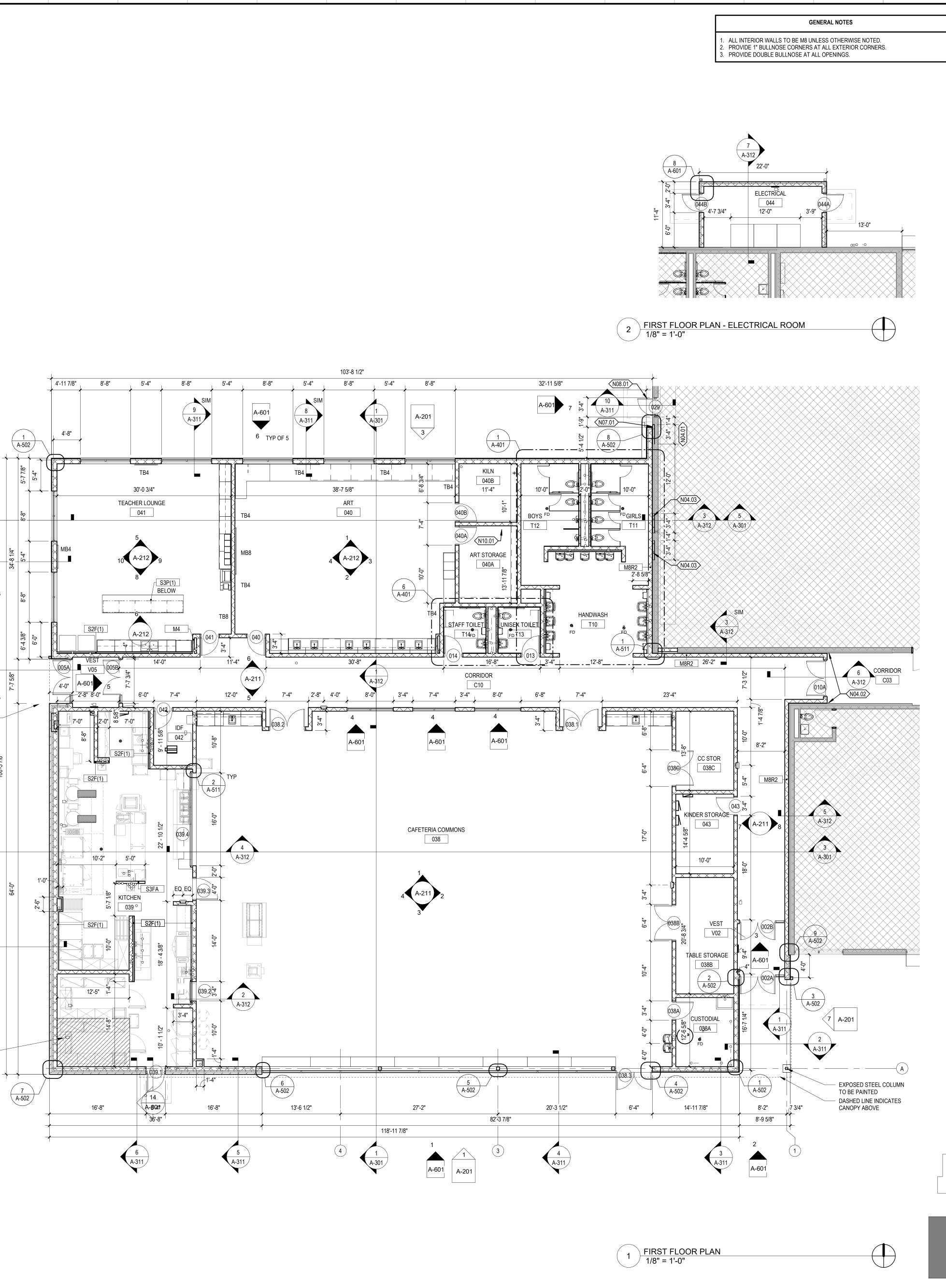




	OVERALL REFERENCE	CE PLAN LE	GEND
1 SIM	DETAIL	□, cG -	CORNER GUARD - REFE TO DETAIL
A101	SECTION TAG FE		FIRE EXTINGUISHER - WALL MOUNTED
1 SIM	BUILDING & WALL SECTION TAG	FEC	RECESSED FIRE EXTINGUISHER AND CA
		FEC-R	FIRE RATED RECESSED EXTINGUISHER AND CABINET
ROOM NAME	ROOM NAME AND NUMBER	FEC	SEMI-RECESSED FIRE EXTINGUISHER AND CA
A101	INTERIOR ELEVATION TAG	FEC-B	SEMI-RECESSED FIRE EXTINGUISHER AND CA AND BLANKET
		MB#	MARKER BOARD
A101 1	EXTERIOR ELEVATION TAG	TB#	TACK BOARD
		ہ FD	FLOOR DRAIN
0	COLUMN TAG AND COLUMN CENTERLINE	<u>N###</u>	NEW WORK NOTE
A101	STOREFRONT, CURTAIN WALL,	EXT-X	EXTERIOR SIGNAGE - SEE
	AND WINDOW ELEVATION	HB	EXTERIOR WALL HYDRANT
	CONCRETE WALKS CONTROL JOINT	Ē	LIGHT POLE
	BUILDING OVERHANGS	\bigcirc	EMERGENCY/ SAFETY CALL BOX
	BELOW GRADE STOOPS - REFER TO STRUCTURAL/ LANDSCAPE DWGS		DEPRESSED ADA CURB
	DEPRESSED SLAB - SEE STRUCTURAL DRAWINGS		CATCH BASIN
	FOR MORE INFORMATION	Q	FIRE HYDRANT
	GRASS / PLANTING AREAS		BIKE RACK

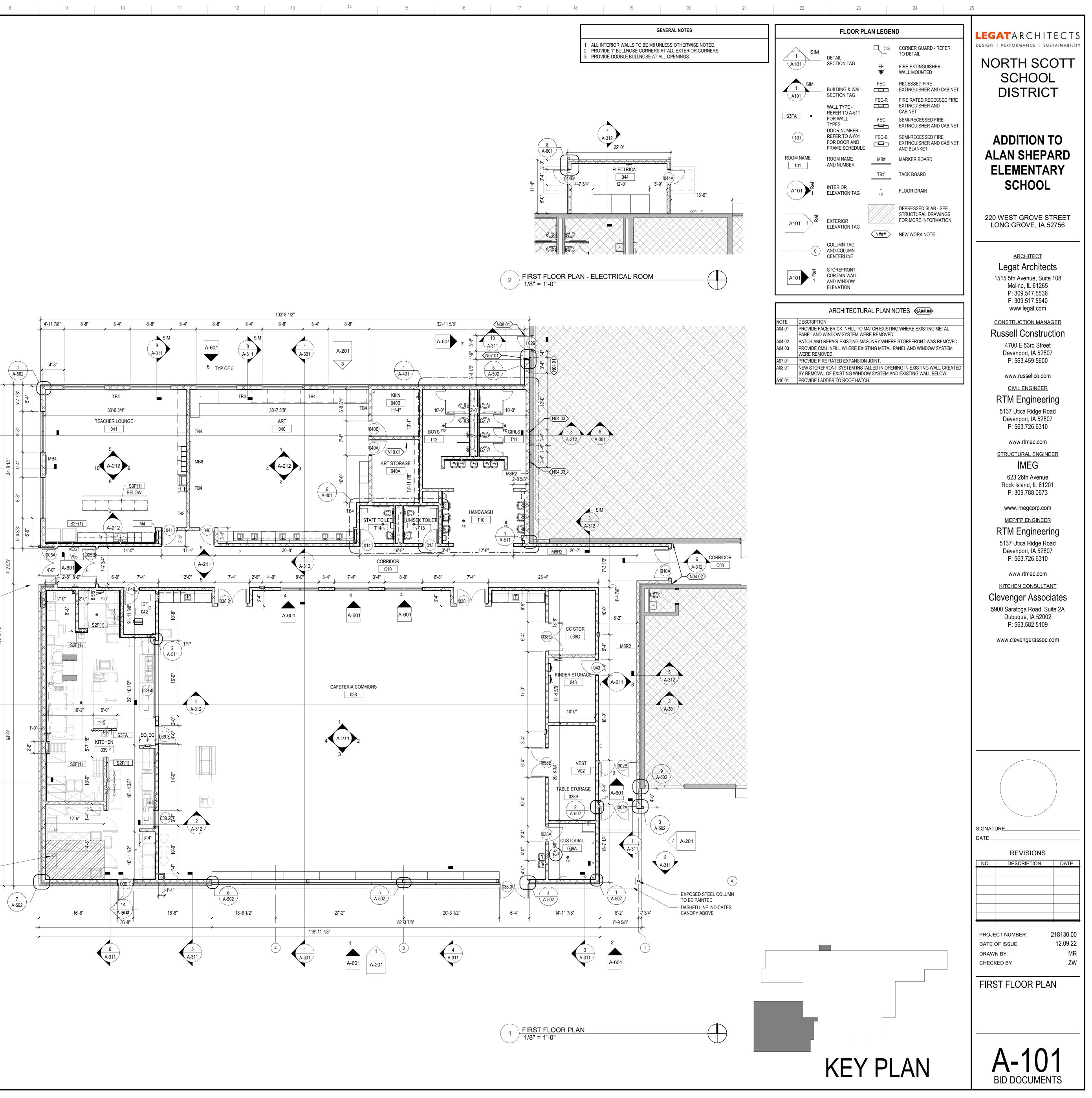


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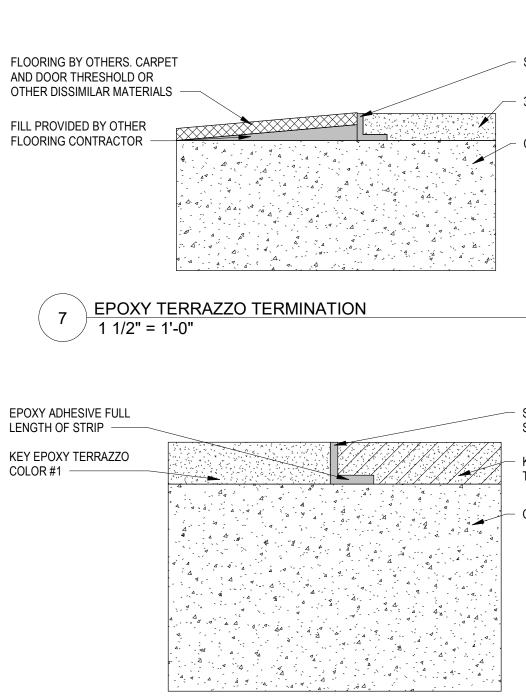


	FLOOR PL	AN LEGEN	ס
1 SIM	DETAIL	□, cG -	CORNER GUARD - REFI TO DETAIL
A101	SECTION TAG	FE V	FIRE EXTINGUISHER - WALL MOUNTED
1 SIM	BUILDING & WALL	FEC	RECESSED FIRE EXTINGUISHER AND CA
A101	SECTION TAG	FEC-R	FIRE RATED RECESSED EXTINGUISHER AND CABINET
S3FA	REFER TO A-611 FOR WALL TYPES	FEC	SEMI-RECESSED FIRE EXTINGUISHER AND CA
(101)	DOOR NUMBER - REFER TO A-601 FOR DOOR AND FRAME SCHEDULE	FEC-B	SEMI-RECESSED FIRE EXTINGUISHER AND CA AND BLANKET
ROOM NAME	ROOM NAME AND NUMBER	MB#	MARKER BOARD
		TB#	TACK BOARD
A101	INTERIOR ELEVATION TAG	ہ FD	FLOOR DRAIN
A101 1	EXTERIOR ELEVATION TAG		DEPRESSED SLAB - SE STRUCTURAL DRAWING FOR MORE INFORMATI
0	COLUMN TAG AND COLUMN CENTERLINE	< <u>N###</u> >	NEW WORK NOTE
A101	STOREFRONT, CURTAIN WALL, AND WINDOW ELEVATION		
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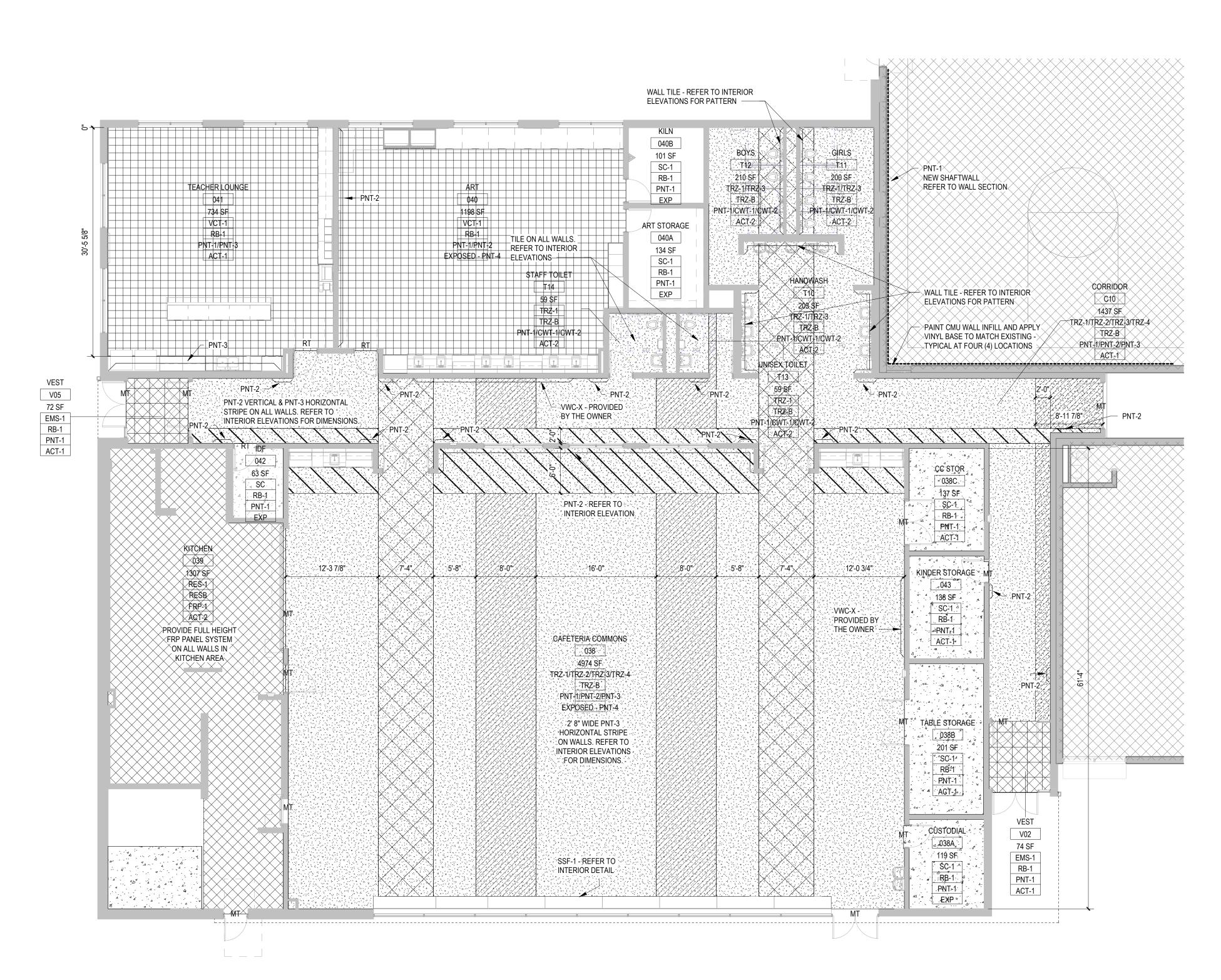
NOTE	DESCRIPTION
A04.01	PROVIDE FACE BRICK INFILL TO MATCH EXISTING WHERE EXISTING META PANEL AND WINDOW SYSTEM WERE REMOVED.
A04.02	PATCH AND REPAIR EXISTING MASONRY WHERE STOREFRONT WAS REM
A04.03	PROVIDE CMU INFILL WHERE EXISTING METAL PANEL AND WINDOW SYST WERE REMOVED.
A07.01	PROVIDE FIRE RATED EXPANSION JOINT.
A08.01	NEW STOREFRONT SYSTEM INSTALLED IN OPENING IN EXISTING WALL CF BY REMOVAL OF EXISTING WINDOW SYSTEM AND EXISTING WALL BELOW
A10.01	PROVIDE LADDER TO ROOF HATCH.



I	2	3 4
	FINISH LEGEN	D & SCHEDULE (BASIS OF DESIGN)
CWT-1	CERAMIC WALL TILE GRAY FIELD	MANUF: DALTILE STYLE: CLASSIC - COLOR WHEEL COLOR: SUEDE GRAY SIZE: 4" X 16"
CWT-2	CERAMIC WALL TILE ACCENT RED	MANUF: DALTILE STYLE: CLASSIC - COLOR WHEEL COLOR: CURRANT SIZE: 4" X 16"
CWT-3	CERAMIC WALL TILE WHITE BACKSPLASH	MANUF: DALTILE STYLE: CLASSIC - COLOR WHEEL COLOR: ARTIC WHITE SIZE: 4" X 16"
CWTB-1	CERAMIC WALL BASE	MANUF: DALTILE STYLE: LINEAR COLOR WHEEL COLOR: SUEDE GRAY SIZE: 4" X 16"
EMS	ENTRANCE MAT SYSTEMS	MANUF: SHAW CONTRACT STYLE: WELCOME II TILE 5T031 COLOR: CHARCOAL
FRP	FIBRERGLASS REINFORCED PLASTIC	SIZE: 24" X 24" MANUF: MARLITE STYLE: PEBBLE COLOR: TBD
MT	METAL TRANSITION	MANUF: SCHLUTER STYLE: SCHIENE COLOR: BRUSHED ALUMINUM
PLAM-1	PLASTIC LAMINATE	SIZE: REFER TO DETAILS MANUF: WILSONART COLOR: FUSION MAPLE
PVCT	PVC TRANSITIONS	MANUF: JOHNSONITE COLOR: SILVER GREY
RES-1	RESINOUS FLOORING	MANUF: SHERWIN WILLIAMS STYLE: RESUFLOR DECO QUARTZ BC23 COLOR: GREY LINEN
RESB	METAL TRANSITION	MANUF: SHERWIN WILLIAMS STYLE: RESUFLOR DECO QUARTZ BC23
RB-1	RUBBER BASE	COLOR: GREY LINEN SIZE: 4" MANUF: JONHSONITE STYLE: COVED COLOR: CHARCOAL
SC	SEALED CONCRETE	SIZE: 4" MANUF: H&C CLARISHIELD WATER- BASED WET LOOK CONCRETE SEALER
SSF-1	SOLID SURFACE	MANUF: CORIAN COLOR: ANTARCTIC
TC-1	TOILET COMPARTMENTS	MANUF: ULTIMATE PRIVACY FINISH: BLACK CORE PHENOLIC COLOR: FOG 3450C
TRZ-1	TERRAZZO FIELD	MANUF: KEY RESIN STYLE: EPOXY TERRAZZO MATRIX COLOR: TBD
TRZ-2	TERRAZZO LIGHT GRAY	MANUF: KEY RESIN STYLE: EPOXY TERRAZZO MATRIX COLOR: TBD
TRZ-3	TERRAZZO DARK GRAY	MANUF: KEY RESIN STYLE: EPOXY TERRAZZO MATRIX COLOR: TBD
TRZ-4	TERRAZZO RED	MANUF: KEY RESIN STYLE: EPOXY TERRAZZO MATRIX COLOR: TBD
TRZB	INTEGRAL TERRAZZO BASE	MANUF: KEY RESIN STYLE: EPOXY TERRAZZO MATRIX COLOR: TBD SIZE: 4"H
VCT-1	VINYAL COMPOSTITION TILE	MANUF: TARKETT STYLE: VCT II COLOR: TBD
VWC-X	VINYL WALL COVERING	MANUF: MDC STYLE: SUEDE COLOR: CUSTOM GRAPHIC, COORDINATED WITH ARCHITECT, REFER TO PLAN FOR QUANTITY AND LOCATIONS
WD-1	WOOD DOORS	MANUF: GRAHAM DOOR SPECIES: MAPLE FINISH: TBD
	PAI	NT LEGEND & SCHEDULE
PNT-1	FIELD PAINT	MANUF: SHERWIN WILLIAMS COLOR: ALABASTER SHEEN: REFER TO NOTES
PNT-2	ACCENT PAINT GRAY AND ALL HM DOOR FRAMES	MANUF: SHERWIN WILLIAMS COLOR: GRIZZLE GRAY SHEEN: REFER TO NOTES
PNT-3	ACCENT PAINT RED	MANUF: SHERWIN WILLIAMS COLOR: HEARTTHROB SHEEN: REFER TO NOTES
PNT-3	ACCENT PAINT	MANUF: SHERWIN WILLIAMS COLOR: TRICORN BLACK



DIVIDER STRIP BETWEEN COLORS 1 1/2" = 1'-0"



1 FIRST FLOOR FINISH PLAN 1/8" = 1'-0"

STRIP 1/16" KEY EPOXY TERRAZZO COLOR #2 - CONCRETE SLAB

STANDARD DIVIDER

STANDARD DIVIDER STRIPS 1/16" -

KEY EPOXY TERRAZZO CONCRETE SLAB A . 4 - 4 4 A - 4 4 4 ,**₹`**4[°], [°] - - 4 Δ' Δ' Δ' Δ' Δ' EXPANSION/ISOLATION JOINT DETAIL 1 1/2" = 1'-0"

LENGTH OF STRIP COMPRESSIBLE BACKER ROD FILLER

DIVIDER STRIPS (JOINT GAP 1/8") EPOXY ADHESIVE FULL

FLESIBLE SEALANT BETWEEN TWO PARALLEL

- 3/8" EPOXY TERRAZZO CONCRETE SLAB

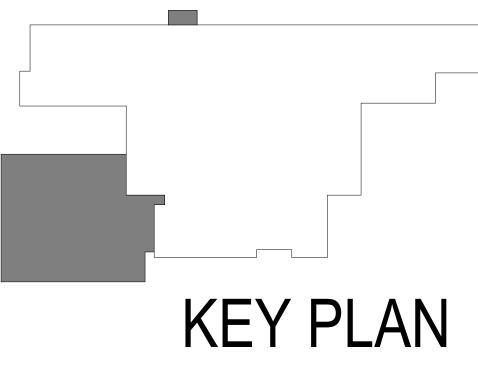
STANDARD DIVIDER STRIP

3/4" R -FRONT VIEW - LEFT OUT CORNER CONCRETE SLAB 6 EPOXY TERRAZZO COVED BASE 1 1/2" = 1'-0"

RADIUS OR CHAMFER 1/16" TO 1/8" SETTING BED -WALL SUBSTRATE 3/4" R – STANDARD DIVIDER STRIP -3/8" KEY EPOXY TERRAZZO

RADIUS OR CHAMFER

A-201



	REFER TO THE PROJECT MANUAL.
	A. NEW PARTITIONS ARE TO BE PRIME PAINTED FOR FULL HEIGHT OF PAR
	(U.N.O.). B. SIGHT-EXPOSED SURFACES OF NEW PARTITIONS ARE TO BE FINISHED
	C. SIGHT-EXPOSED SURFACES OF NEW PARTITIONS ARE TO BE FINISHED C. SIGHT-EXPOSED SURFACES OF SOFFITS SHALL BE PRIME AND FINISHED
	PAINTED.
2.	ALL WALLS IN EXISTING ROOMS IN WHICH WORK IS OCCURRING:
	A. REPAIR HOLES, DEFECTS, ETC. IN EXISTING WALLS.
	B. AT REPAIRS AND UNPAINTED CONCRETE BLOCK PROVIDE BLOCK FILL F TWO FINISH COATS OF PAINT.
	C. AT REPAIRS AND UNPAINTED GYPSUM BOARD AND/OR PLASTER PROVI
	PRIMER AND TWO FINISH COATS OF PAINT.
<u>_</u>	D. PROVIDE ONE FINISH COAT OF PAINT OVER EXISTING PAINTED WALLS.
3.	IN OCCUPIED SPACES IN AREAS OF NEW CONSTRUCTION, ALL SIGHT-EXPO MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND TECHNOLO
	COMPONENTS INCLUDING, BUT NOT LIMITED TO, DUCTWORK, PIPING, FITTI
	CONDUIT, BOXES, HANGERS, ETC SHALL BE PAINTED. DATA CABLING SHAL
	NOT BE PAINTED.
4.	AT AREAS OF EXPOSED ROOF STRUCTURE IDENTIFIED TO BE PAINTED, ALI
	EXPOSED ITEMS SHALL BE PAINTED INCLUDING, BUT NOT LIMITED TO, ROO
_	STRUCTURE, DUCTWORK, PIPING, FITTINGS, CONDUIT, BOXES, HANGERS, I
э. 6.	ALL WALLS TO BE FINISH PAINTED PNT-1 WITH EGGSHELL FINISH (U.N.O.). AT STEEL DOORS AND STEEL FRAMES:
0.	A. INTERIORS TO BE PAINTED PNT-2 WITH SEMI-GLOSS FINISH (U.N.O.).
	B. ALL EXTERIOR TO BE PAINTED WITH COLOR TO BE SELECTED BY ARCH
	WITH SEMI-GLOSS FINISH (U.N.O.).
	GENERAL CEILING FINISH NOTES
1.	REFER TO PAINT SPECIFICATIONS, FINISH DRAWINGS AND CEILING PLANS
2	CEILING AND SOFFIT COLOR INFORMATION. REFER TO ACOUSTICAL CEILING PANELS (ACT) SPECIFICATION, AND CEILI
۷.	FOR ACT INFORMATION.
3.	WHERE EXPOSED CEILINGS ARE CALLED TO BE PAINTED, PAINT ALL EXPOS
	INCLUDING, BUT NOT LIMITED TO, FRAMING, DECK, DUCTWORK, PIPING & C
	DO NOT PAINT H, V, E, FA, P LABELS, MOVING PARTS, OR COMPONENTS TH
	EXPECTED TO REMAIN UNPAINTED.
4.	ALL GYPSUM BOARD / PLASTER CEILINGS AND SOFFITS TO BE PAINTED PN (U.N.O.) ON CEILING AND/OR FINISH PLANS.
	(U.N.U.) ON ULILING AND/ON TINIGHTLANG.

PAINTED PNT-1

PAINTED (U.N.O.) IN FINISH PLANS

31.	ACCOMMODATE DIVISION 22, 23, 26, 27 & 28 SCOPE OF WORK INCLUDED IN TH PACKAGE SHALL BE REPAIRED. THOUGH NOT EXPRESSLY NOTED "PATCH AN REPAIR", IT IS INTENDED THAT THE WORK BE PERFORMED. "PATCH AND REPAIR" WALLS AS REQUIRED WHERE EXISTING JUNCTION BOXE AND/OR OUTLETS ARE REMOVED. PREPARE WALLS FOR NEW PAINT FINISH.
	GENERAL FLOOR FINISH NOTES
1.	 AT ALL AREAS OF NEW FLOORING: A. PROVIDE RUBBER TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS. B. PROVIDE 4-INCH RUBBER BASE ON ALL VERTICAL SURFACES ABUTTING FLOORING MATERIALS. C. GRIND ANY HIGH SPOTS AND FILL ANY LOW SPOTS IN CONCRETE SUBSTF PRIOR TO BEGINNING ANY WORK. D. PREPARE CRACKS AND OTHER SURFACE DEFECTS IN CONCRETE SUBSTF ACCORDANCE WITH FLOORING MANUFACTURER'S RECOMMENDATIONS P TO BEGINNING ANY WORK.
	GENERAL PAINTING NOTES
	 ALL NEW CONSTRUCTION AND IDENTIFIED EXISTING CONSTRUCTION TO REM SHALL BE PRIME AND FINISH PAINTED UNLESS MATERIALS ARE PRE-FINISHED REFER TO THE PROJECT MANUAL. A. NEW PARTITIONS ARE TO BE PRIME PAINTED FOR FULL HEIGHT OF PARTI (U.N.O.). B. SIGHT-EXPOSED SURFACES OF NEW PARTITIONS ARE TO BE FINISHED PA C. SIGHT-EXPOSED SURFACES OF SOFFITS SHALL BE PRIME AND FINISHED PAINTED.
	 ALL WALLS IN EXISTING ROOMS IN WHICH WORK IS OCCURRING: A. REPAIR HOLES, DEFECTS, ETC. IN EXISTING WALLS. B. AT REPAIRS AND UNPAINTED CONCRETE BLOCK PROVIDE BLOCK FILL PAI TWO FINISH COATS OF PAINT. C. AT REPAIRS AND UNPAINTED GYPSUM BOARD AND/OR PLASTER PROVIDE PRIMER AND TWO FINISH COATS OF PAINT. D. PROVIDE ONE FINISH COAT OF PAINT OVER EXISTING PAINTED WALLS.
3.	IN OCCUPIED SPACES IN AREAS OF NEW CONSTRUCTION, ALL SIGHT-EXPOSE MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND TECHNOLOG' COMPONENTS INCLUDING, BUT NOT LIMITED TO, DUCTWORK, PIPING, FITTING CONDUIT, BOXES, HANGERS, ETC SHALL BE PAINTED. DATA CABLING SHALL NOT BE PAINTED.
5.	AT AREAS OF EXPOSED ROOF STRUCTURE IDENTIFIED TO BE PAINTED, ALL S EXPOSED ITEMS SHALL BE PAINTED INCLUDING, BUT NOT LIMITED TO, ROOF STRUCTURE, DUCTWORK, PIPING, FITTINGS, CONDUIT, BOXES, HANGERS, ET ALL WALLS TO BE FINISH PAINTED PNT-1 WITH EGGSHELL FINISH (U.N.O.).
6.	AT STEEL DOORS AND STEEL FRAMES: A. INTERIORS TO BE PAINTED PNT-2 WITH SEMI-GLOSS FINISH (U.N.O.). B. ALL EXTERIOR TO BE PAINTED WITH COLOR TO BE SELECTED BY ARCHITE

24

GENERAL FINISH NOTES

ALSO REFER TO THE PROJECT MANUAL.

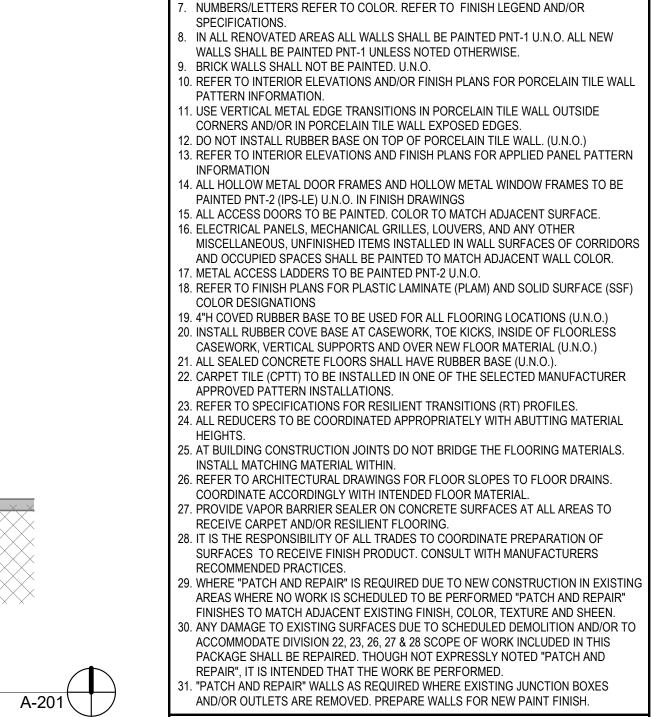
MANUFACTURER'S RECOMMENDATIONS.

IN CORRIDORS AND STAIRS AND UNLESS NOTED OTHERWISE.

. REFER TO FINISH PLANS FOR FLOOR AND WALL PATTERNS.

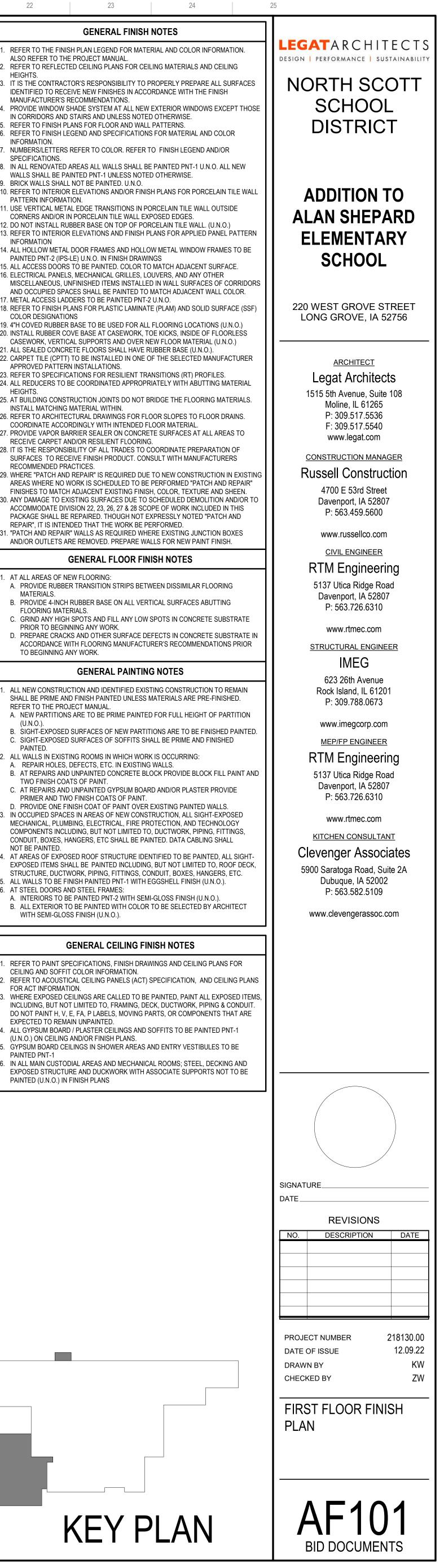
HEIGHTS.

INFORMATION.

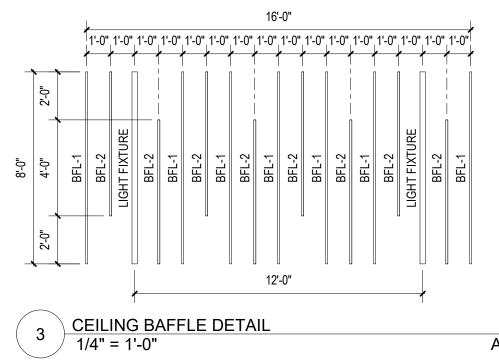


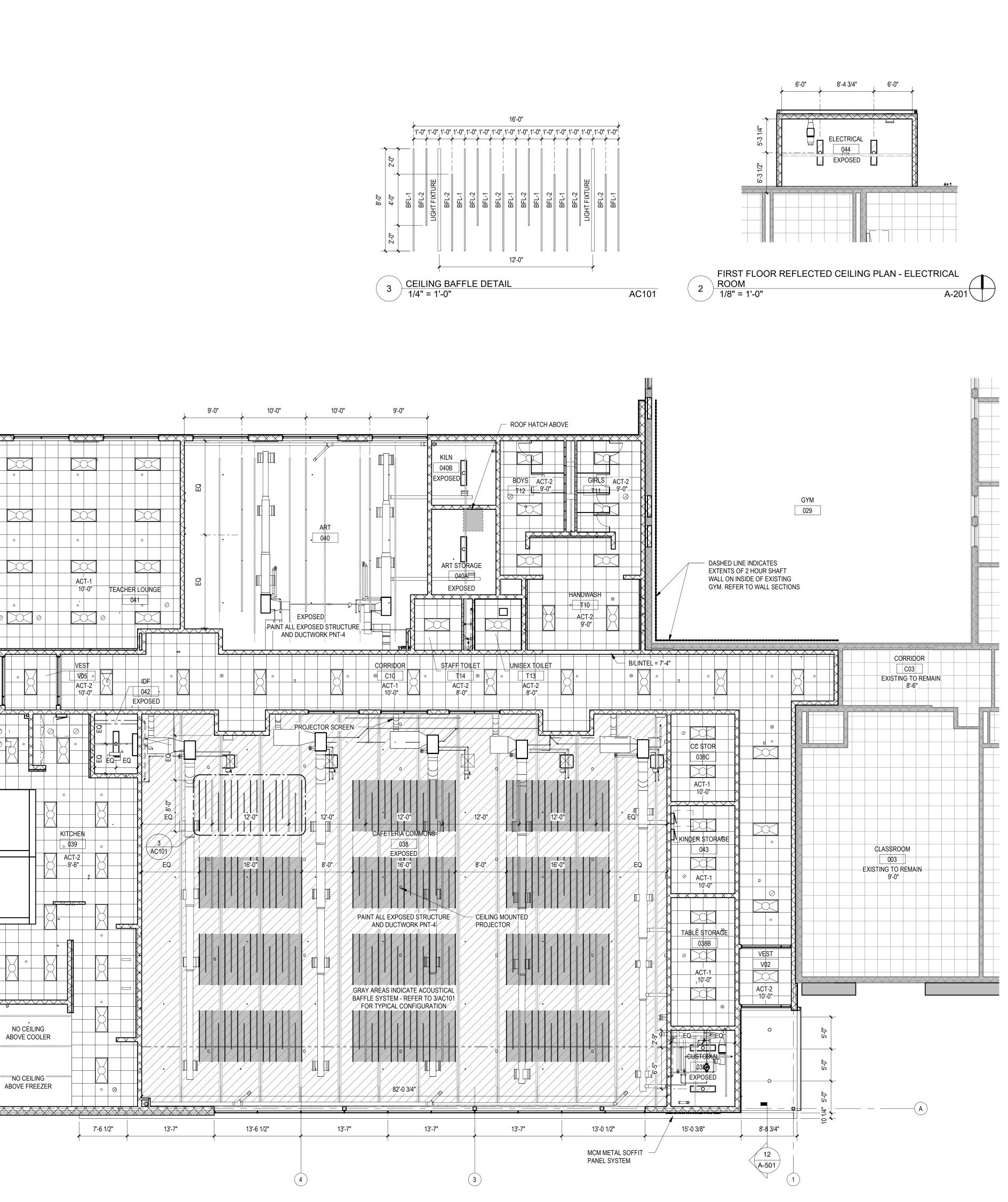
ELECTRICAL .044 215 SF SC-1 RB-1 PNT-1 -XPOSED

FIRST FLOOR FINISH PLAN - ELECTRICAL ROOM 1/8" = 1'-0"



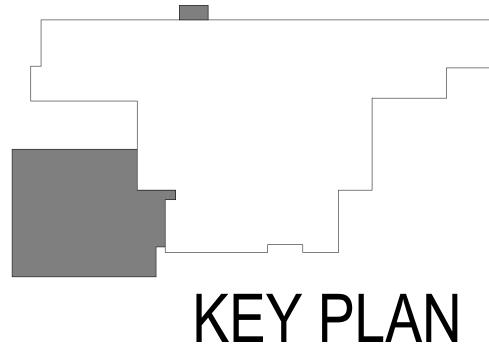
1 2 3 4 5 6 A		GYPSUM E GYPSUM E EXPOSED 2' X 2' LUM 2' X 2' LUM 2' X 4' LUM 2' X 4' LUM C 2' X 4' SUR ELECTRICA C 2' X 4' SUR C 2' X 4' SUR C 2' X 4' SUR C 2' X
		LINE ROLL EMERGEN PROJECTION
T	1 FIRST FLOOR REFLECTED CEILING PLAN	KE



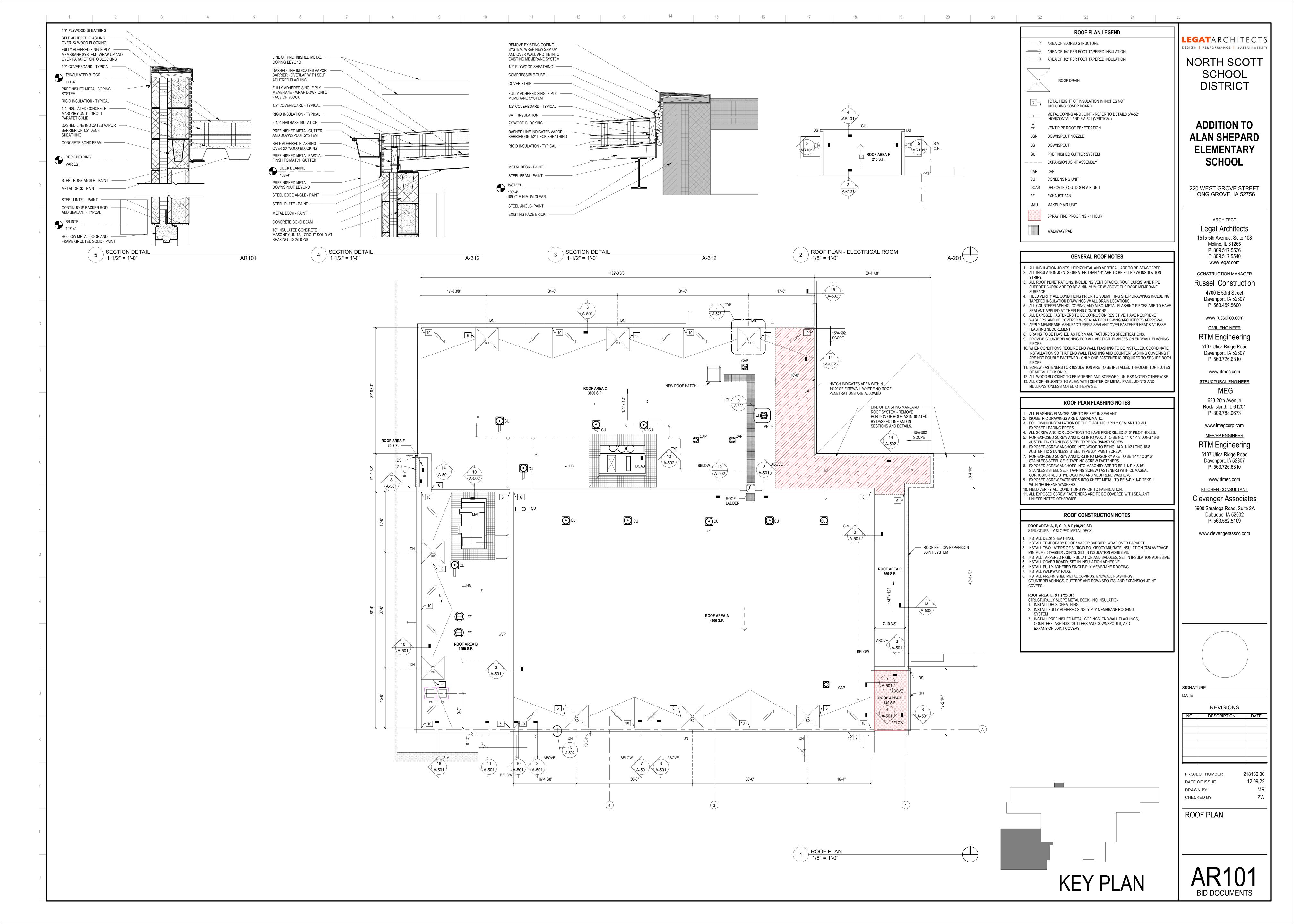


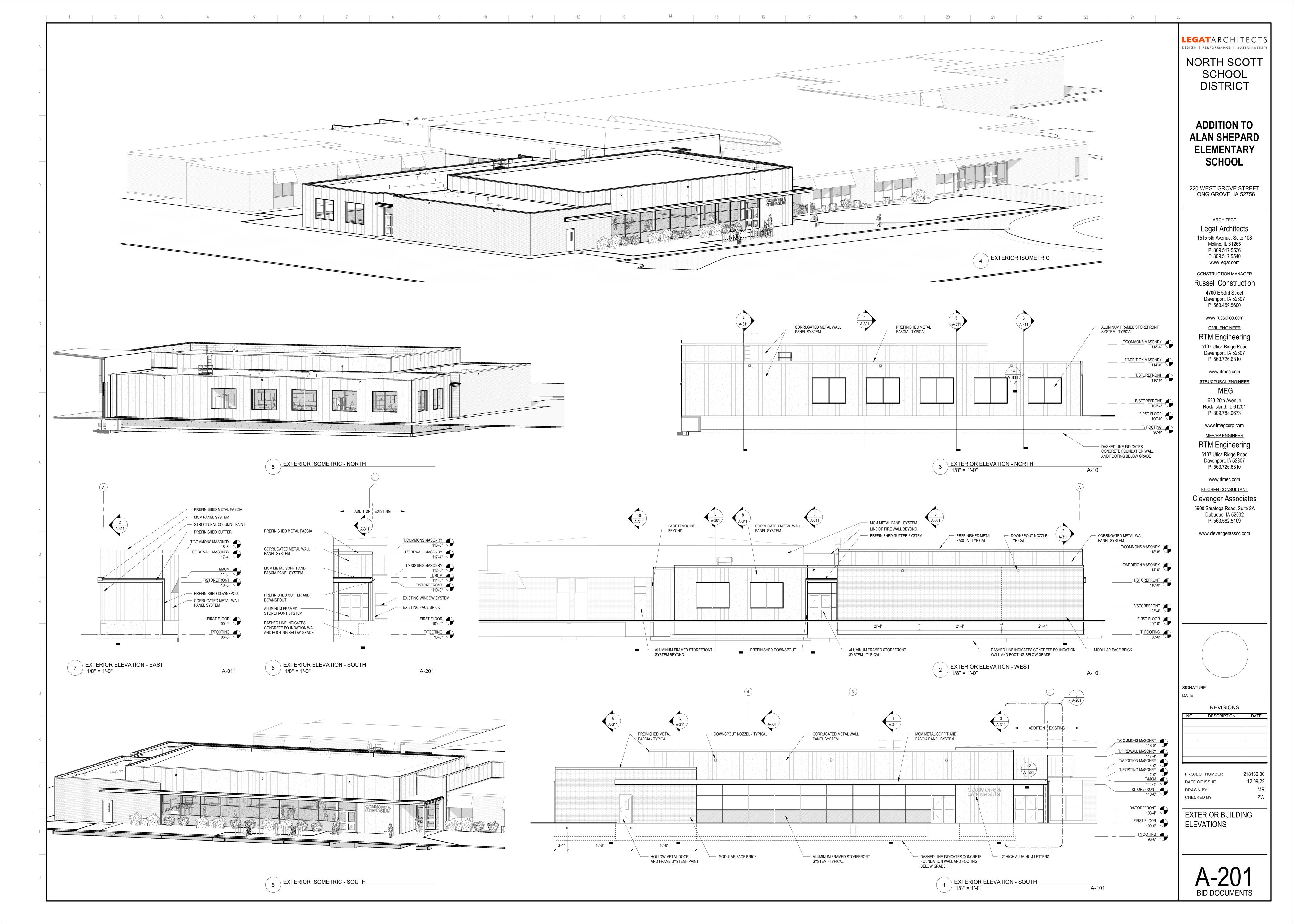
	REFLECTED CEILING PLAN LEGEND
FINISHE	D CEILING ELEVATION
	2' X 2' SUSPENDED ACOUSTICAL CEILING TILE
$ \begin{array}{c} -\frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ -\frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ -\frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ -\frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ -\frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ -\frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ -\frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ -\frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ -\frac{1}{2} & \frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ -\frac{1}{2} & \frac{1}{2} & \frac{1}{2} \\ -\frac{1}{2} & \frac{1}{2} $	GYPSUM BOARD CEILING OR SOFFIT
	EXPOSED CEILING
	2' X 2' LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
	2' X 4' LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
0	RECESSED CAN LUMINAIRE - REFER TO ELECTRICAL DRAV
Q	RECESSED CAN WALL WASHER - REFER TO ELECTRICAL D
<u> </u>	TRACK LIGHTING - REFER TO ELECTRICAL DRAWINGS
0	1' X 4' SURFACE MOUNTED LUMINAIRE - REFER TO ELECTRICAL DRAWINGS
	RECESSED 1' X 4' INDUSTRIAL LUMINAIRE
	RECESSED 4" LINEAR FIXTURE
0	DROPPED PENDANT MOUNTED
	SUSPENDED TRANSLUCENT RESIN PANEL SYSTEM
	RETURN DIFFUSER - SEE MECHANICAL DRAWINGS
	SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
\bigcirc	ROUND SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS
	LINEAR SLOT SUPPLY DIFFUSER - SEE MECHANICAL DRAV
۲	SPRINKLER HEAD - SEE FIRE PROTECTION DRAWINGS
	CABINET UNIT HEATER - SEE MECHANICAL DRAWINGS
PR	CEILING-MOUNTED PROJECTOR
<u>↓</u> ₽	EMERGENCY WALL LIGHT
	EMERGENCY EXIT SIGN
	PROJECTION SCREEN
BFL-1	BAFFLE - ARMSTRONG METALWORKS - 6"x96"x1"
BFL-2	BAFFLE - ARMSTRONG METALWORKS - 6"x72"x1"

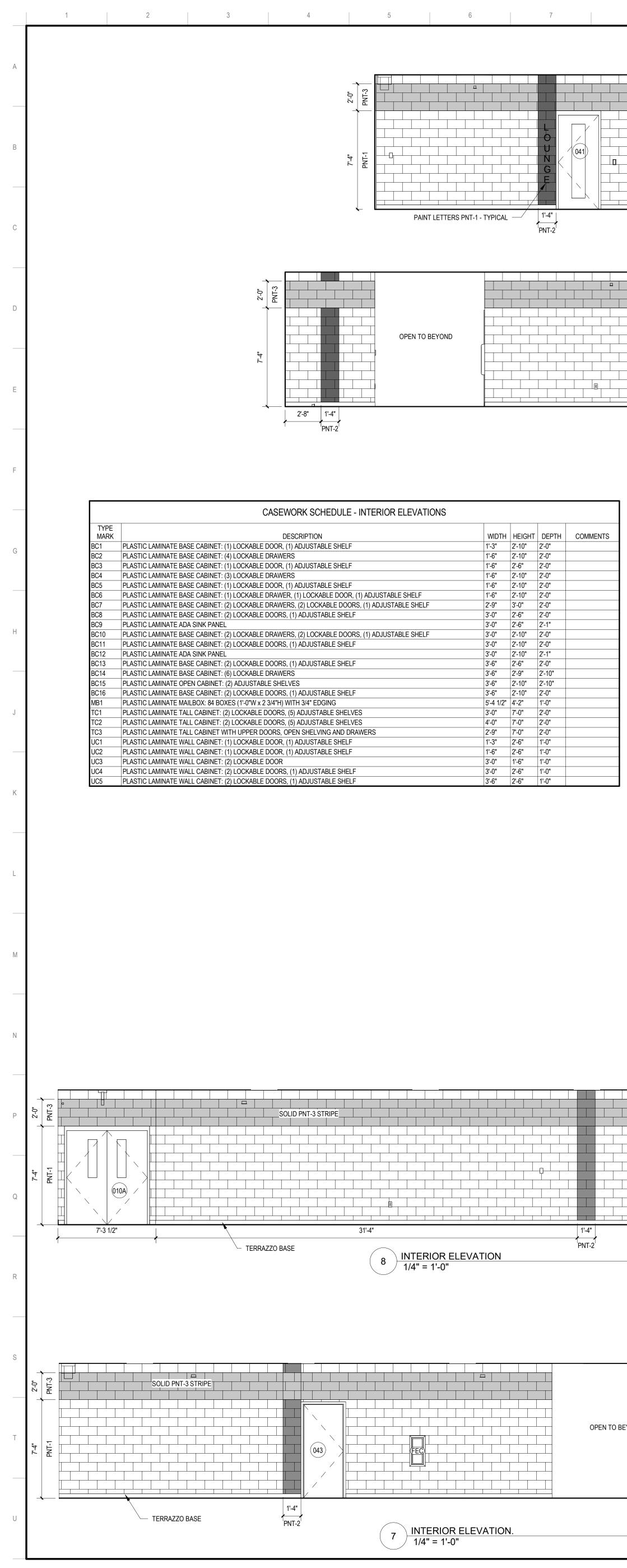
23







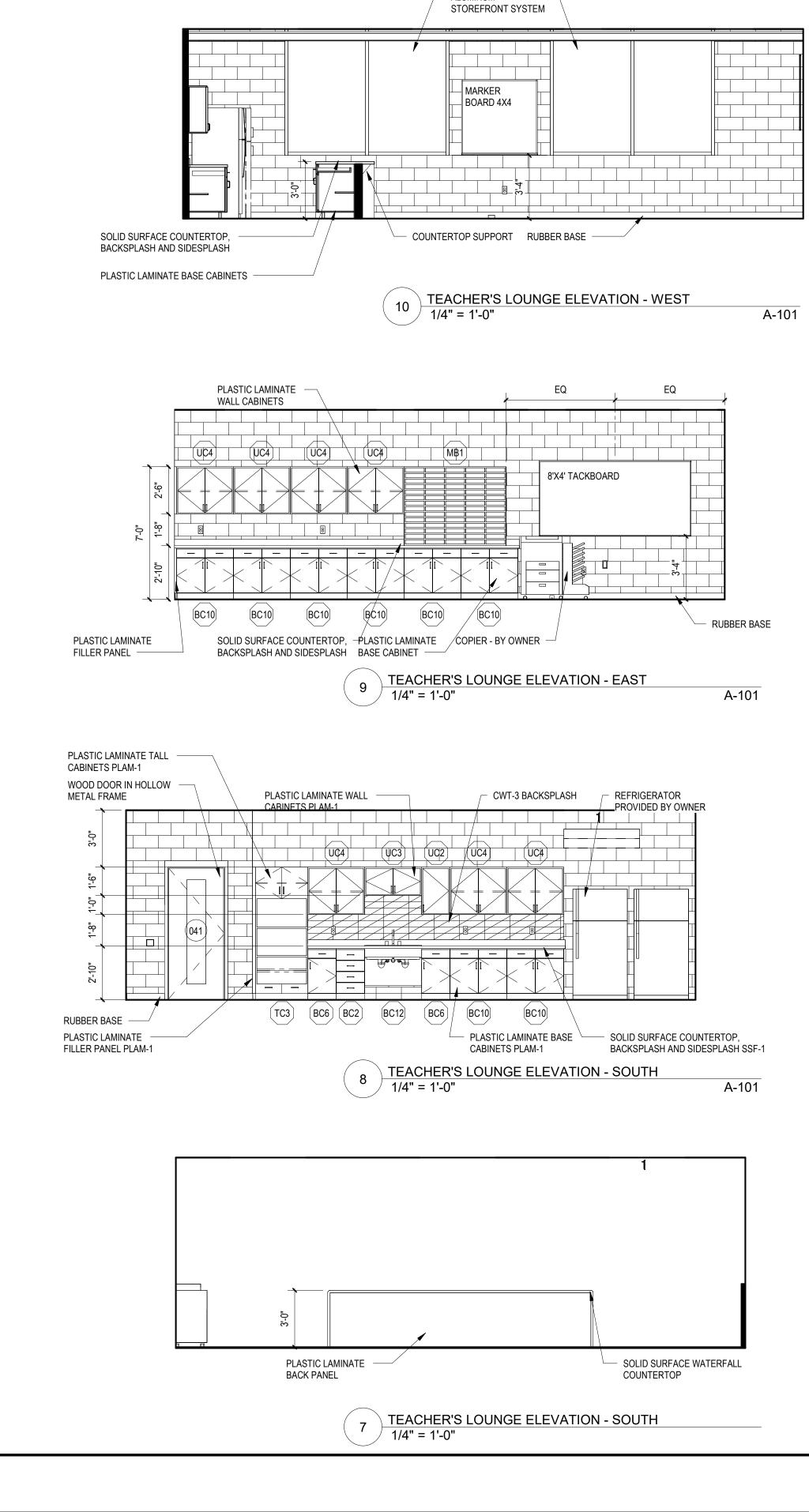




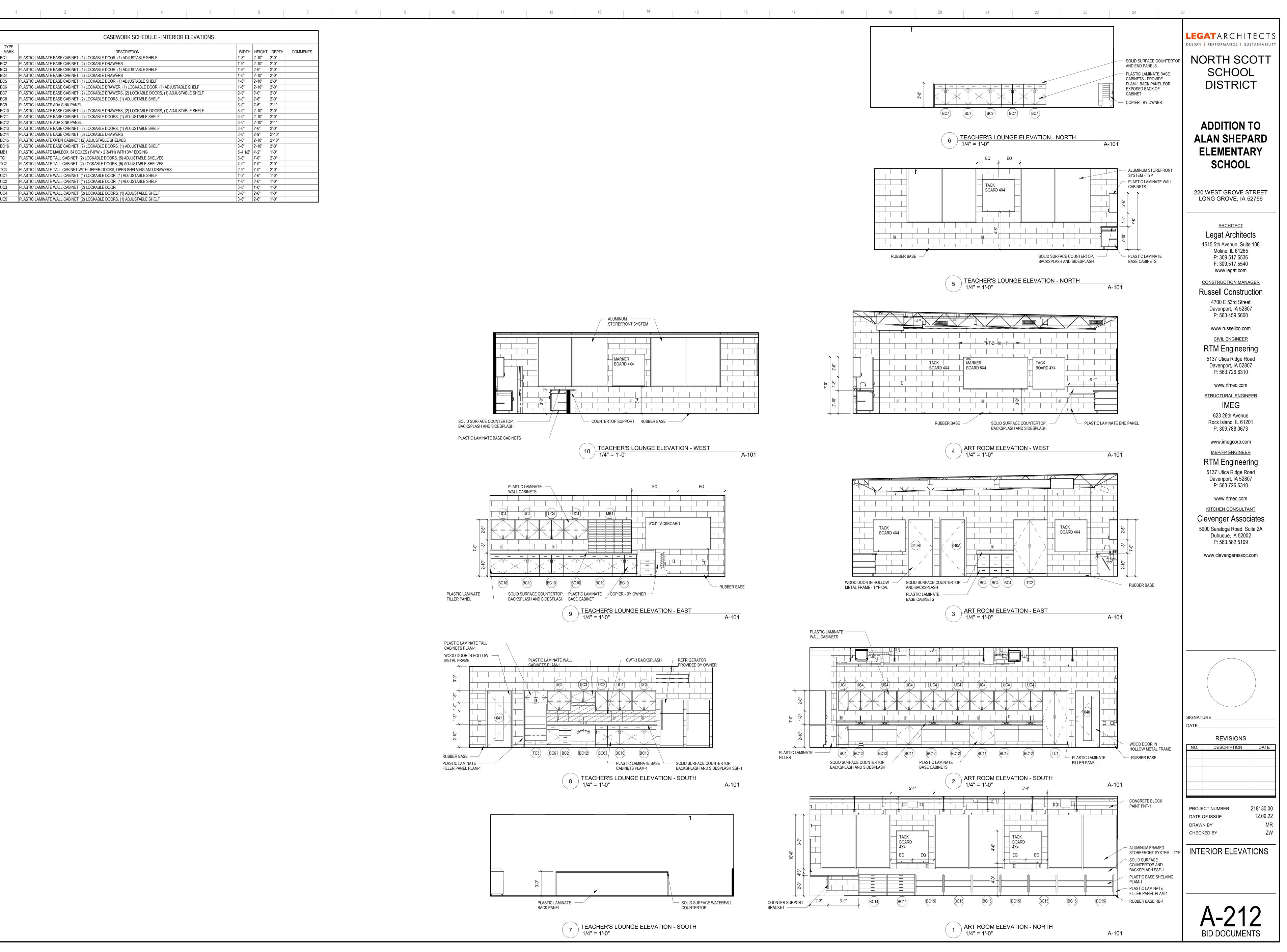
8 9 10 11 12 13	14 15 16	17 18 19 20	21 22 23 24
EQ FQ FQ FQ FQ FQ FQ FQ FQ FQ F	EQ SOLID PNT-3 STRIPE (014) (014) (014) (014) (014) (014) (013) (013) (013) (013) (013) (013) (013) (013) (013) (013) (013) (013) (013) (013) (014) (014) (014) (014) (014) (014) (014) (014) (014) (014) (014) (015)		
	WOOD DOOR IN HOLLOW METAL PNT-2 WOOD DOOR IN HOLLOW METAL FRAME - TYPICAL	PNT-2 PNT-2 PNT-2 PNT-2 PNT-2	$6 \underbrace{\text{INTERIOR ELEVATION}}_{1/4" = 1'-0"} $
	TYPICAL		INTERIOR ELEVATION Image: Second
st-1 WALL AND BENCH		ALUMINUM FRAMED STOREFRONT	Image: second
A-101			$\frac{1}{2} \frac{\text{NTERIOR ELEVATION}}{1/4" = 1-0"} \text{A-10}$
A-101 O BEYOND O BEYOND O BEYOND O A-101 A-101		Image: state stat	

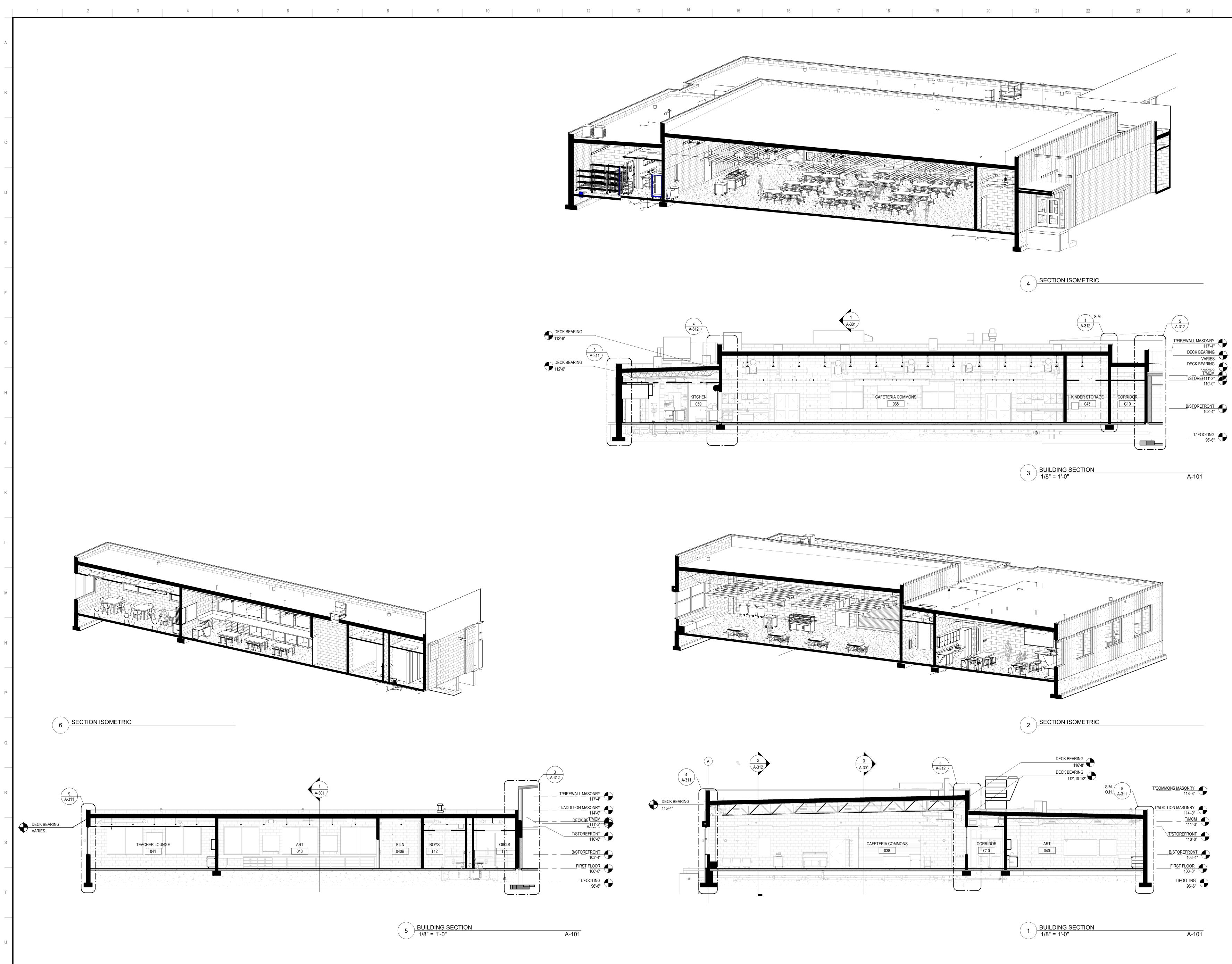


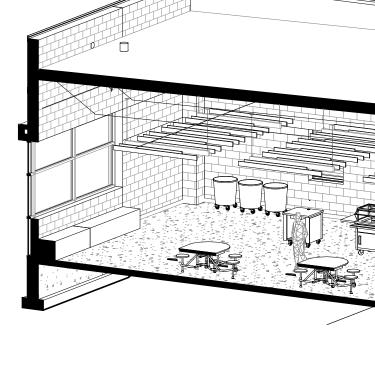
BC2	PLASTIC LAMINATE BASE CABINET: (1) LOCKABLE DOOR, (1) ADJUSTABLE SHELF PLASTIC LAMINATE BASE CABINET: (4) LOCKABLE DRAWERS	1'-3" 1'-6"	2'-10" 2'-10"	2'-0" 2'-0"	COMN
BC3 BC4 BC5	PLASTIC LAMINATE BASE CABINET: (1) LOCKABLE DOOR, (1) ADJUSTABLE SHELF PLASTIC LAMINATE BASE CABINET: (3) LOCKABLE DRAWERS PLASTIC LAMINATE BASE CABINET: (1) LOCKABLE DOOR, (1) ADJUSTABLE SHELF	1'-6" 1'-6" 1'-6"	2'-6" 2'-10" 2'-10"	2'-0" 2'-0" 2'-0"	
BC6 BC7 BC8	PLASTIC LAMINATE BASE CABINET: (1) LOCKABLE DRAWER, (1) LOCKABLE DOOR, (1) ADJUSTABLE SHELF PLASTIC LAMINATE BASE CABINET: (2) LOCKABLE DRAWERS, (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	1'-6" 2'-9" 3'-0"	2'-10" 3'-0" 2'-6"	2'-0" 2'-0" 2'-0"	
BC9 BC10	PLASTIC LAMINATE BASE CABINET: (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF PLASTIC LAMINATE ADA SINK PANEL PLASTIC LAMINATE BASE CABINET: (2) LOCKABLE DRAWERS, (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	3'-0" 3'-0"	2'-6" 2'-10"	2'-1" 2'-0"	
BC11 BC12 BC13	PLASTIC LAMINATE BASE CABINET: (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF PLASTIC LAMINATE ADA SINK PANEL PLASTIC LAMINATE BASE CABINET: (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	3'-0" 3'-0" 3'-6"	2'-10" 2'-10" 2'-6"	2'-0" 2'-1" 2'-0"	
BC14 BC15 BC16	PLASTIC LAMINATE BASE CABINET: (6) LOCKABLE DRAWERS PLASTIC LAMINATE OPEN CABINET: (2) ADJUSTABLE SHELVES PLASTIC LAMINATE BASE CABINET: (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	3'-6" 3'-6" 3'-6"	2'-9" 2'-10" 2'-10"	2'-10" 2'-10" 2'-0"	
MB1 TC1	PLASTIC LAMINATE MAILBOX: 84 BOXES (1'-0"W x 2 3/4"H) WITH 3/4" EDGING PLASTIC LAMINATE TALL CABINET: (2) LOCKABLE DOORS, (5) ADJUSTABLE SHELVES	5'-4 1/2" 3'-0"	4'-2" 7'-0"	1'-0" 2'-0"	
TC2 TC3 UC1	PLASTIC LAMINATE TALL CABINET: (2) LOCKABLE DOORS, (5) ADJUSTABLE SHELVES PLASTIC LAMINATE TALL CABINET WITH UPPER DOORS, OPEN SHELVING AND DRAWERS PLASTIC LAMINATE WALL CABINET: (1) LOCKABLE DOOR, (1) ADJUSTABLE SHELF	4'-0" 2'-9" 1'-3"	7'-0" 7'-0" 2'-6"	2'-0" 2'-0" 1'-0"	
UC2 UC3 UC4	PLASTIC LAMINATE WALL CABINET: (1) LOCKABLE DOOR, (1) ADJUSTABLE SHELF PLASTIC LAMINATE WALL CABINET: (2) LOCKABLE DOOR PLASTIC LAMINATE WALL CABINET: (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	1'-6" 3'-0" 3'-0"	2'-6" 1'-6" 2'-6"	1'-0" 1'-0" 1'-0"	
UC5	PLASTIC LAMINATE WALL CABINET: (2) LOCKABLE DOORS, (1) ADJUSTABLE SHELF	3'-6"	2'-6"	1'-0"	



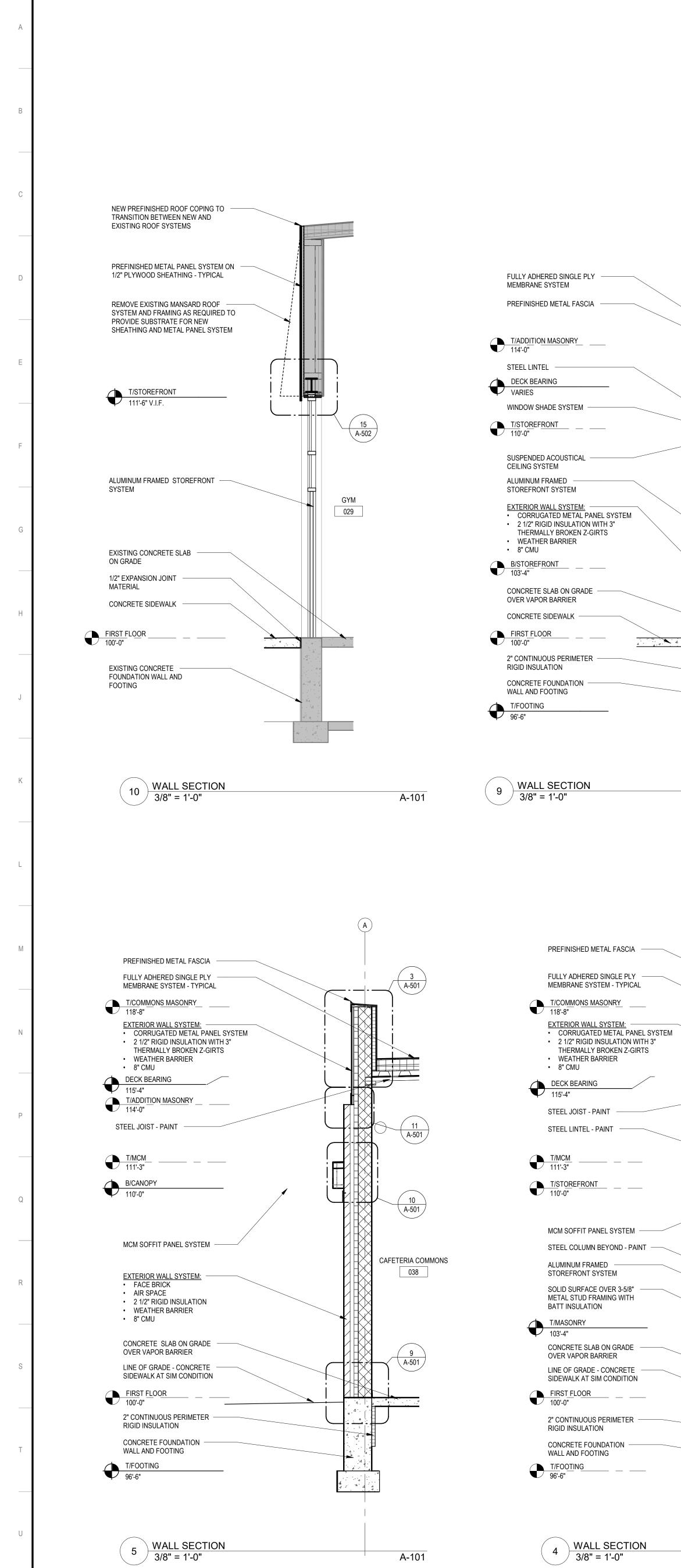
- ALUMINUM -



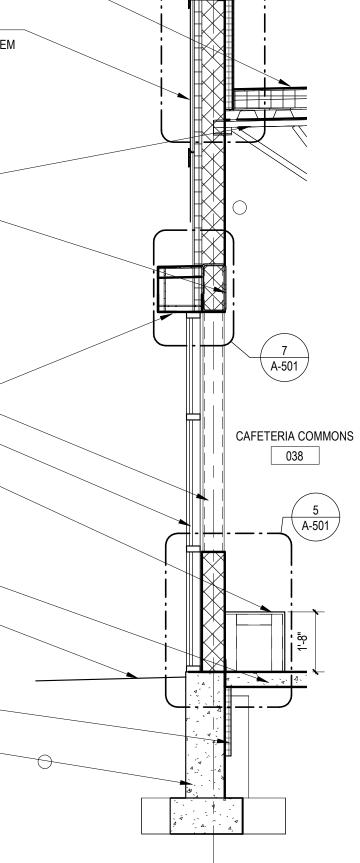


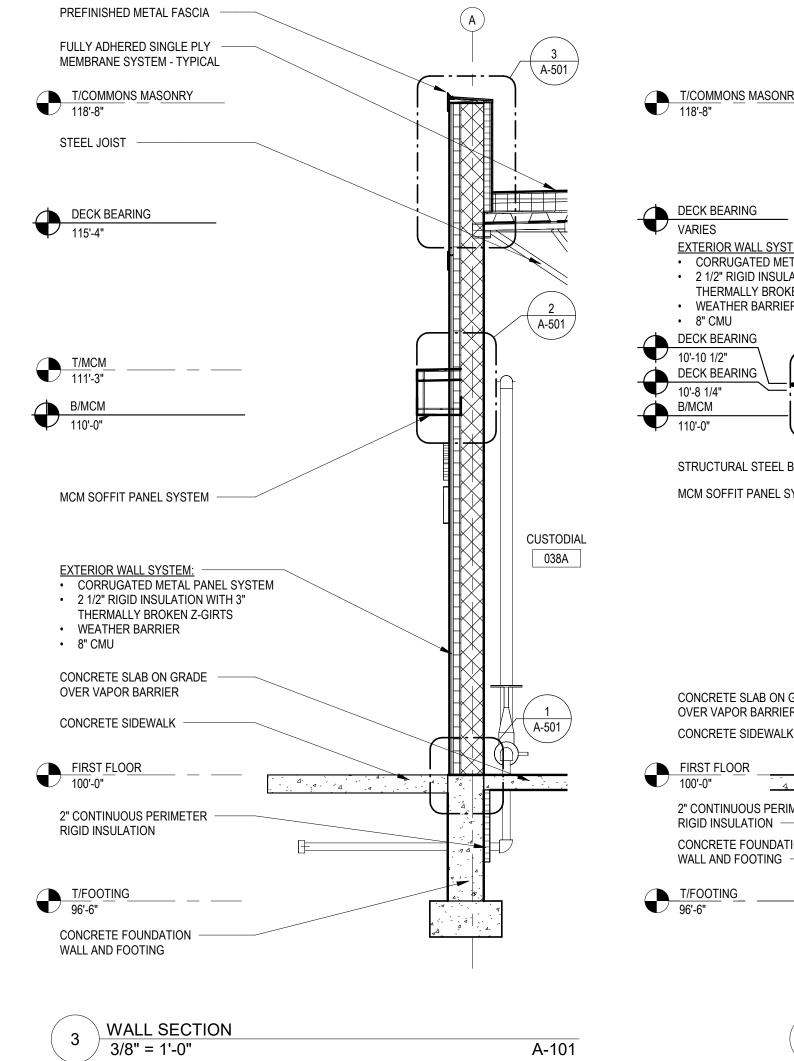












A-101

A-101

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A-501 /

TEACHER LOUNGE

041

A-501

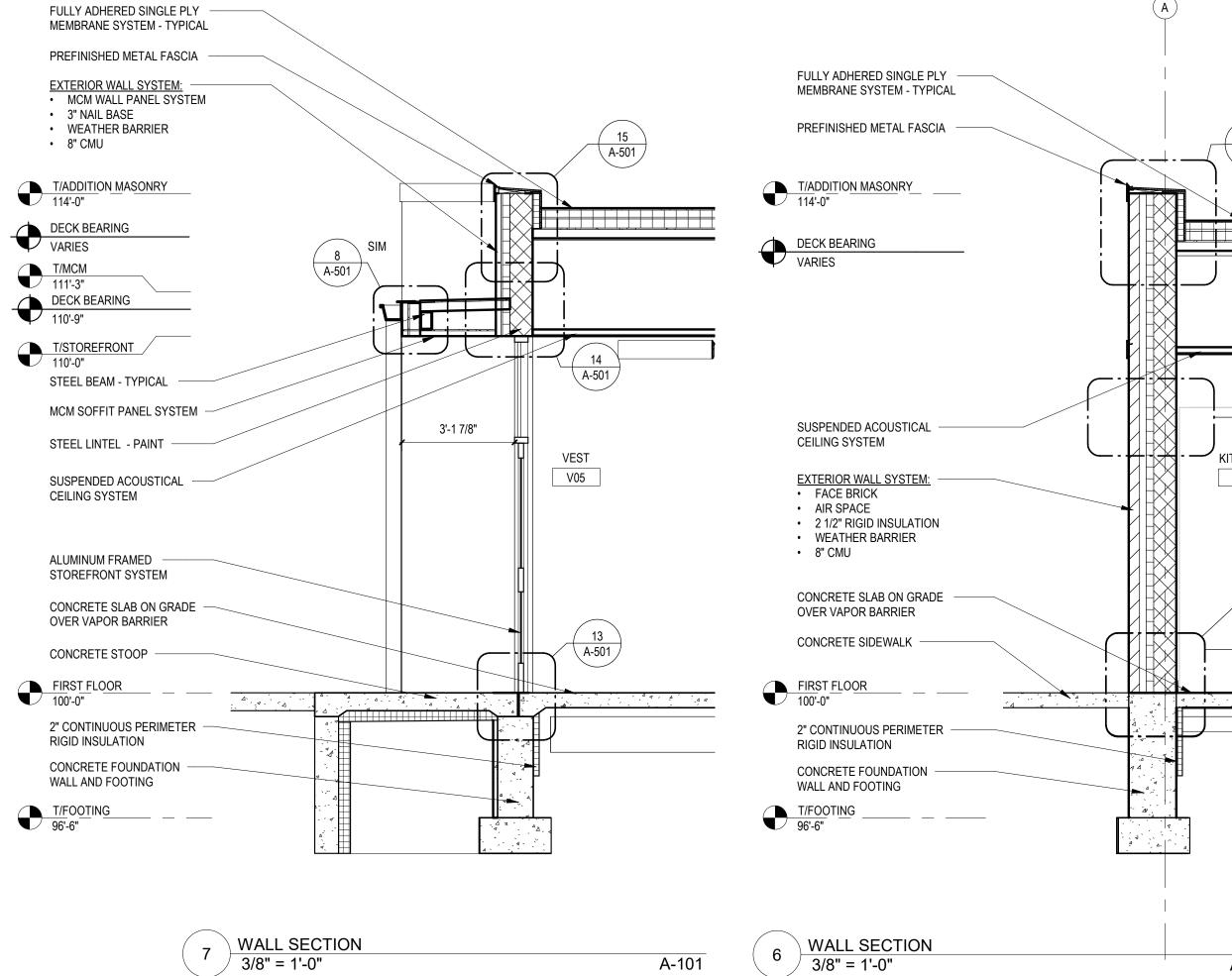
A-501

8 WALL SECTION 3/8" = 1'-0"

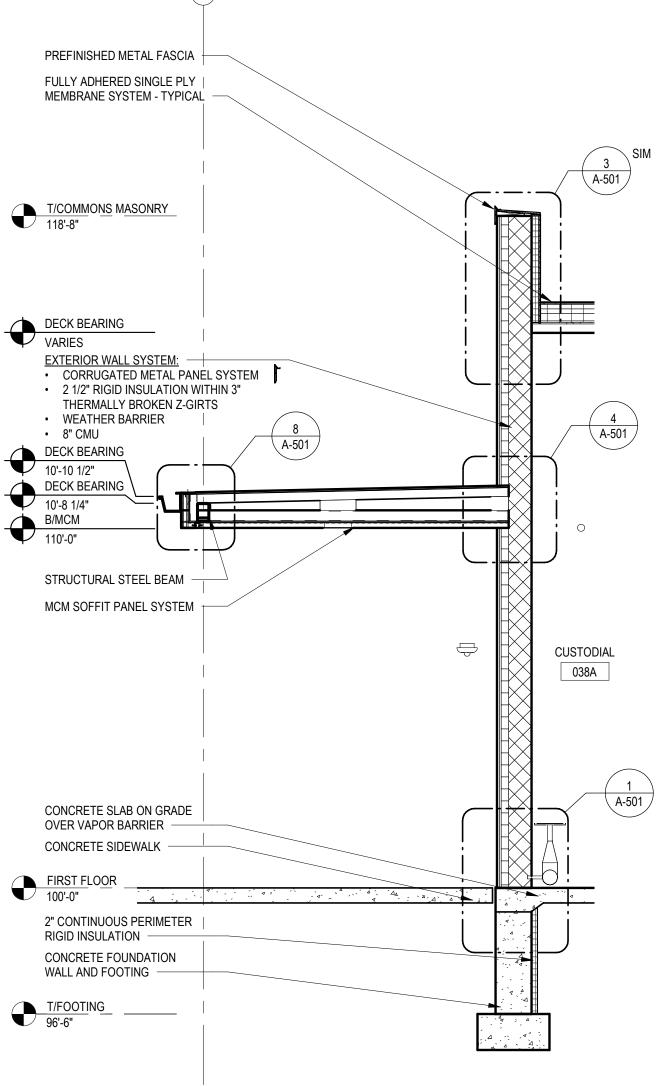
FULLY ADHERED SINGLE PLY

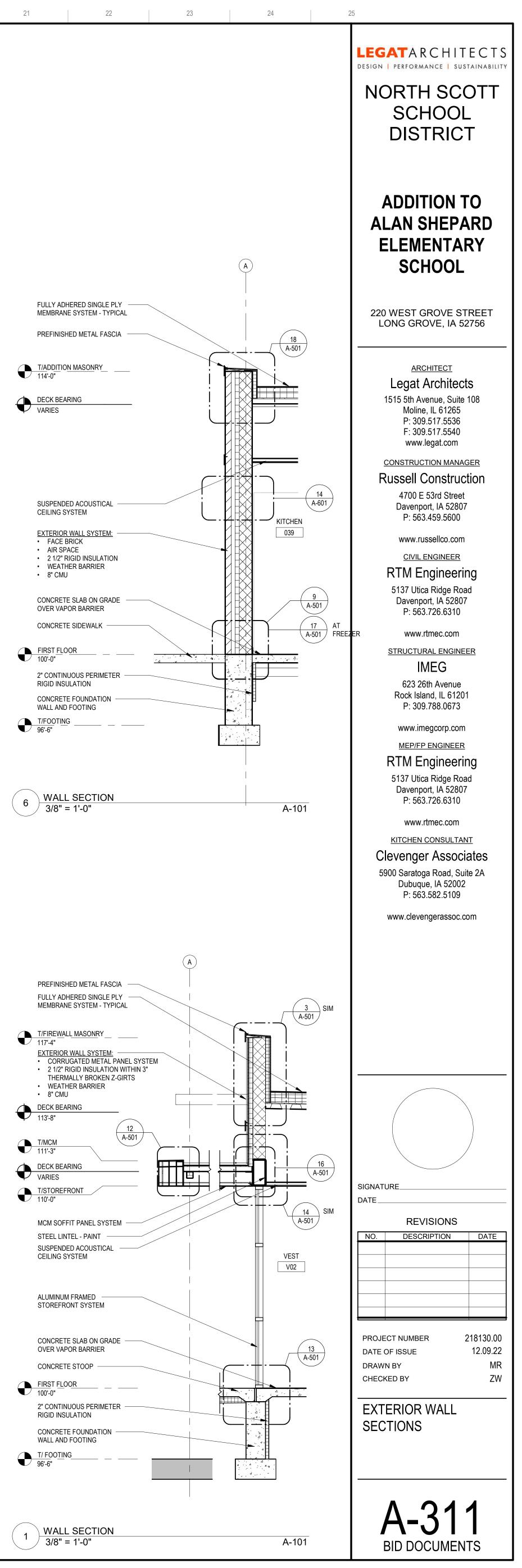
MEMBRANE SYSTEM PREFINISHED METAL FASCIA STEEL JOIST \ A-501 / T/ADDITION MASONRY _____ \$<u></u><u></u> DECK BEARING VARIES <u>T/MCM</u> 111'-3" B/CEILING 110'-0" MECHANICAL DUCT SUSPENDED ACOUSTICAL CEILING SYSTEM TEACHER LOUNGE EXTERIOR WALL SYSTEM: 041 CORRUGATED METAL PANEL SYSTEM • 2 1/2" RIGID INSULATION WITH 3" THERMALLY BROKEN Z-GIRTS WEATHER BARRIER 8" CMU CONCRETE SLAB ON GRADE OVER VAPOR BARRIER CONCRETE SIDEWALK A-501 FIRST FLOOR 2" CONTINUOUS PERIMETER RIGID INSULATION CONCRETE FOUNDATION WALL AND FOOTING T/FOOTING 96'-6"

• 8" CMU



A-101





2 WALL SECTION 3/8" = 1'-0"

A-101

7	WALL SECTION 3/8" = 1'-0"	

EXISTING ROOF ASSEMBLY TO REMAIN	
REMOVE EXISTING COPING SYSTEM, WRAP NEW MEMBRANE OVER EXISTING PARAPET AND STRIP INTO EXISTING MEMBRANE SYSTEM	
ROOF BELLOW EXPANSION JOINT SYSTEM	
STEEL BEAM - PAINT. COORDINATE BEARING ELEVATION WITH ELECTRICAL EQUIPMENT REQUIREMENTS TO MAINTAIN MINIMUM CLEARANCE OF 9'-0" A.F.F.	
LINE OF INSULATED CONCRETE MASONRY	
FULLY ADHERED SINGLE PLY MEMBRANE	
T/MASONRY BEYOND	
 ✓ 111'-4" ── T.O. MASONRY 1966 ── 111'-1 7/8" 	
T/MASONRY	
PREFINISHED METAL GUTTER AND OWNSPOUT SYSTEM	
10" INSULATED CONCRETE MASONRY UNITS	
ELECTRICAL EQUIPMENT	
EXISTING MASONRY WALL CONSTRUCTION	ELECTRICAL BOYS
EXISTING CONCRETE SLAB ON GRADE	
CONCRETE SLAB ON GRADE OVER	
1/2" EXPANSION JOINT MATERIAL	
LINE OF GRADE	
FIRST FLOOR	
CONCRETE FOUNDATION WALL	
T/ FOOTING	
CONCRETE FOOTING	
EXISTING FOUNDATION SYSTEM TO REMAIN	

1 2 3 4 5 6 7 <u>8</u> 9 10 11 12 12 13 22 23 24

5 WALL SECTION 3/8" = 1'-0"

6 WALL SECTION 3/8" = 1'-0"

PEFINISHED METAL FASCIA -

T/FIREWALL MASONRY_____

FULLY ADHERED SINGLE PLY MEMBRANE SYSTEM

ROOF BELLOW EXPANSION JOINT SYSTEM

SUSPENDED ACOUSTICAL CEILING

EXISTING CEILING SYSTEM

EXISTING FACE BRICK AND

8" CONCRETE BLOCK (2 HOUR -FIRE WALL) - PAINT

EXISTING CONCRETE SLAB ON

1/2" EXPANSION JOINT MATERIAL

CONCRETE SLAB ON GRADE

CONCRETE FOUNDATION WALL

FOUNDATION WALL - TYPICAL

EXISTING CONCRETE TUNNEL

OVER VAPOR BARRIER

EXISTING CONCRETE

CONCRETE FOOTING

T/FOOTING 94'- 10 5/8" V.I.F.

A-101

FIRST FLOOR 100'-0"

FLOOR SLAB

CONCRTE BLOCK

GRADE

• 8" CMU

DECK BEARING VARIES

SYSTEM

EXTERIOR WALL SYSTEM: • CORRUGATED METAL PANEL SYSTEM

 2 1/2" RIGID INSULATION WITH 3" THERMALLY BROKEN Z-GIRTS

WEATHER BARRIER

EXISTING ROOF ASSEMBLY - REMOVE -PORTION OF ROOF EDGE AS

REQUIRED FOR NEW CONSTRUCTION

CORRIDOR

C10

A-101

44

3	VAL 3/8"
	0,0

CONCRETE FOOTING $-$	
EXISTING CONCRETE TU FLOOR SLAB	١

	T/FOOTING	
フ	96'-6"	

CONCRETE FOUNDATION WALL EXISTING CONCRETE FOUNDATION WALL - TYPICAL

GRADE 1/2" EXPANSION JOINT MATERIAL CONCRETE SLAB ON GRADE OVER VAPOR BARRIER FIRST FLOOR 100'-0"

4" CONCRETE BLOCK INFILL 1" EXPANSION JOINT - V.I.F. -8" CONCRETE BLOCK (2 HOUR FIRE WALL) - PAINT EXISTING CONCRETE SLAB ON

SPRAY FIREPROOFING EXISTING STEEL BEAM SUSPENDED ACOUSTICAL CEILING SYSTEM CONCRETE BLOCK INFILL TO -MATCH EXISTING - PAINT EXISTING CONCRETE BLOCK

T/ADDITION MASONRY 114'-0" DECK BEARING VARIES

ROOF BELLOW EXPANSION JOINT SYSTEM FULLY ADHERED SINGLE PLY -MEMBRANE SYSTEM

PREFINISHED METAL PANEL SYSTEM ON -1/2" PLYWOOD SHEATHING - TYPICAL REMOVE EXISTING MANSARD ROOF — SYSTEM AND FRAMING AS REQUIRED TO PROVIDE SUBSTRATE FOR NEW SHEATHING AND METAL PANEL SYSTEM

EXISTING ROOF SYSTEMS CONTINUOUS 2" SHAFTWALL SYSTEM — TO MAINTAIN 2 HOUR FIRE RATING ON EXISTING SIDE

NEW PREFINISHED ROOF COPING TO TRANSITION BETWEEN NEW AND



∖ SIM \ A-501 / _ · __ · __ · __ ⁄ A-502 DECK BEARING 12'-8" B/CEILING 110'-0" B/LINTEL 107'-4" CORRIDOR CORRIDOR C10 C03 FIRST FLOOR 100'-0" EXISTING FOUNDATION SYSTEM TO REMAIN

A-101

CLASSROOM

003

PREFINISHED METAL FASCIA -EXTERIOR WALL SYSTEM: - CORRUGATED METAL PANEL SYSTEM • 2 1/2" RIGID INSULATION WITH 3" THERMALLY BROKEN Z-GIRTS WEATHER BARRIER 8" CMU T/MASONRY 117'-4" FULLY ADHERED SINGLE PLY MEMBRANE SYSTEM EXISTING ROOF SYSTEM - REMOVE PORTION OF ROOF AS REQUIRED FOR NEW CONSTRUCTION. DECK BEARING VARIES ROOF BELLOW EXPANSION JOINT SYSTEM B/CEILING 110'-0" SUSPENDED ACOUSTICAL CEILING SYSTEM 8" CONCRETE BLOCK (2 HOUR FIRE WALL) EXISTING MASONRY WALL TO REMAIN. REMOVE EXISTING SOFFIT, FRAMING, AND SIDING SYSTEM BACK TO FACE OF MASONRY. REMOVE EXISTING DOOR AND FRAME SYSTEM ENTIRELY 2 HOUR RATED DOOR AND FRAME SYSTEM EXISTING CONCRETE SLAB CONCRETE SLAB ON GRADE OVER VAPOR BARRIER FIRST FLOOR 100'-0" CONCRETE FOUNDATION WALL AND FOOTING

PREFINISHED METAL FASCIA -EXTERIOR WALL SYSTEM: • CORRUGATED METAL PANEL SYSTEM 2 1/2" RIGID INSULATION WITH 3" THERMALLY BROKEN Z-GIRTS WEATHER BARRIER • 8" CMU <u>T/COMMONS MASONRY</u> 118'-8" 8" CONCRETE BLOCK - PAINT DECK BEARING VARIES

STEEL JOIST

CEILING SYSTEM

STEEL LINTEL - PAINT

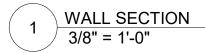
OVER VAPOR BARRIER

CONCRETE FOOTING

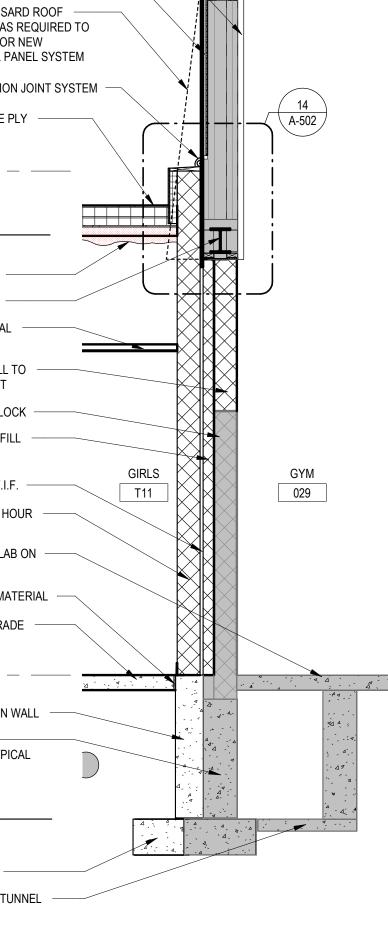
SYSTEM

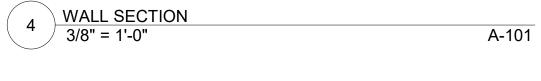
ALL SECTION 3" = 1'-0"

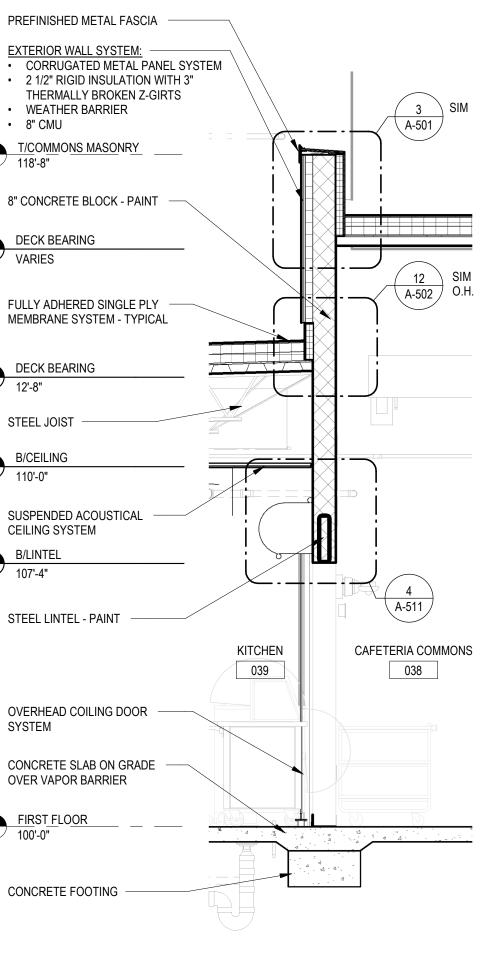
A-101

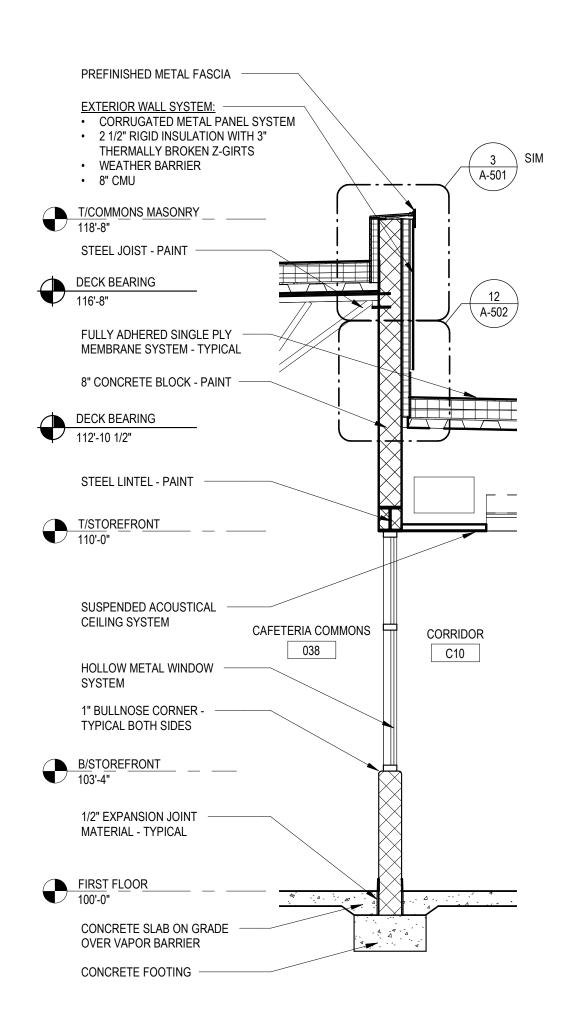


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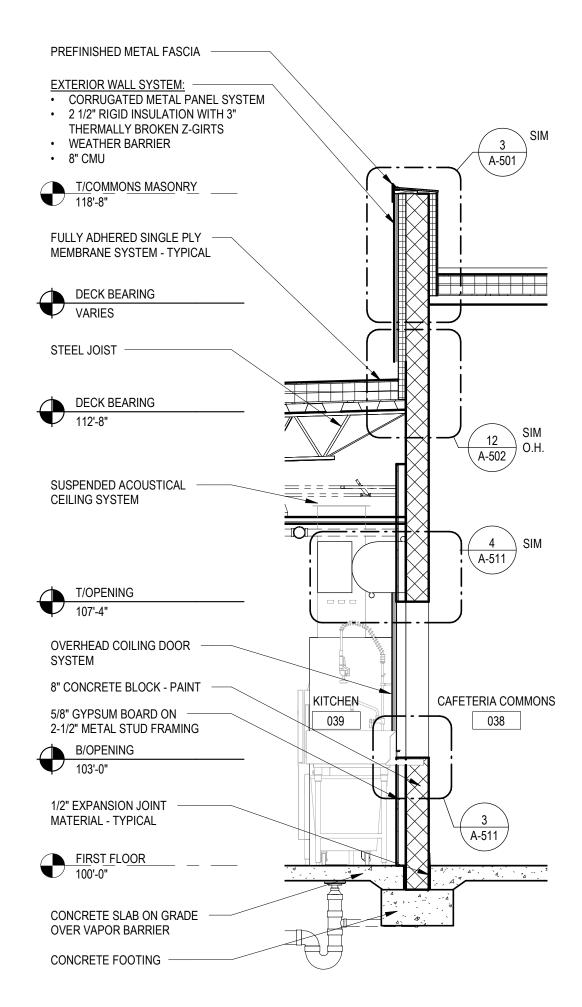






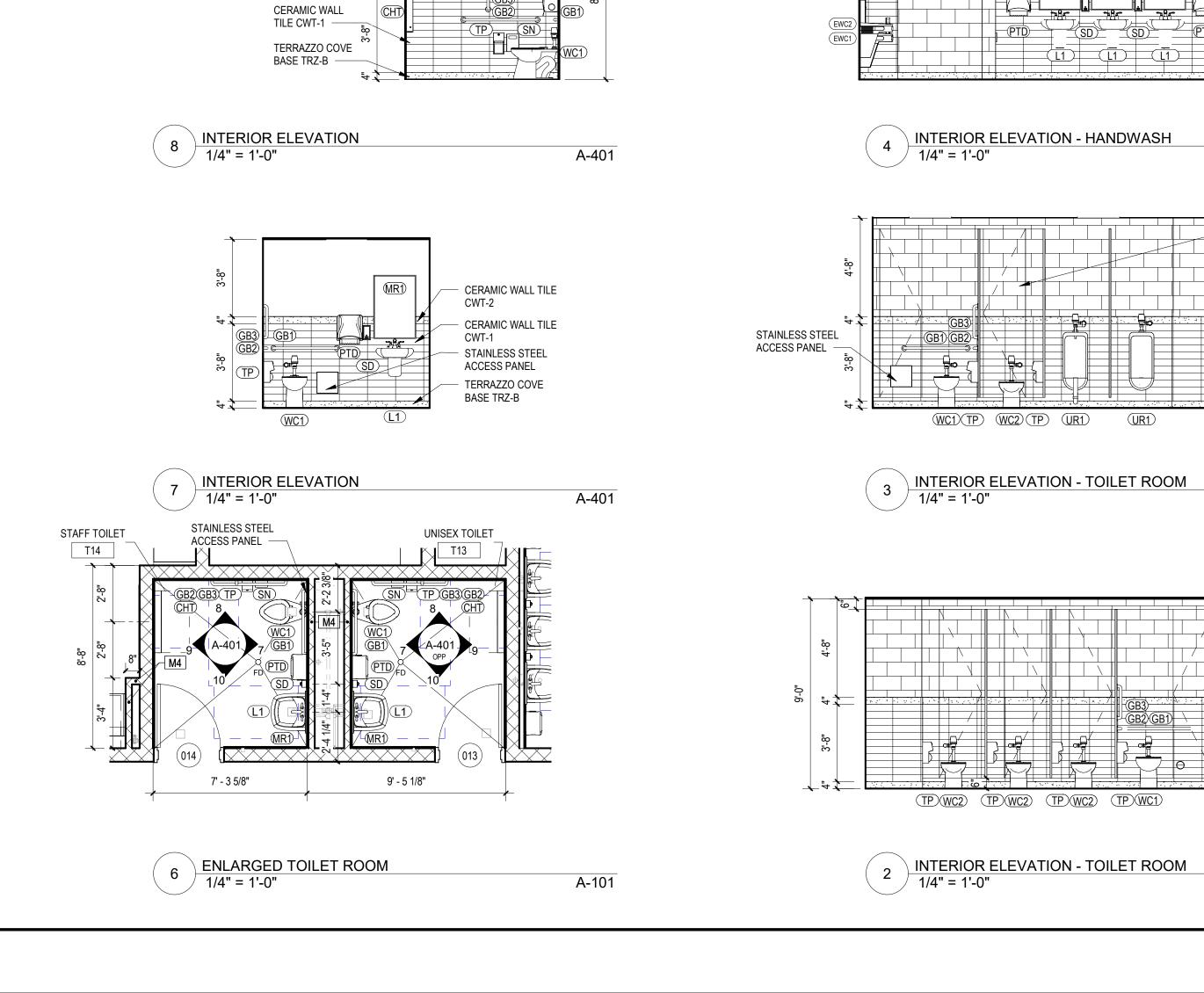
WALL SECTION

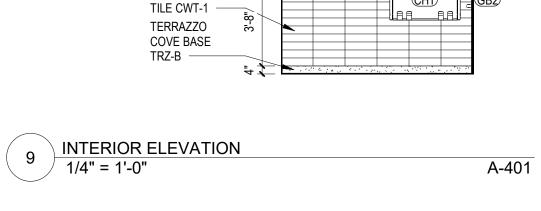
3/8" = 1'-0"



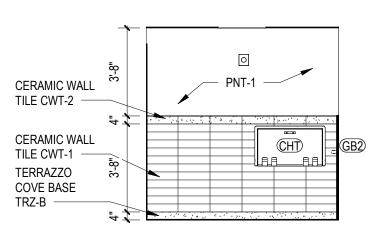


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— PNT-1 -

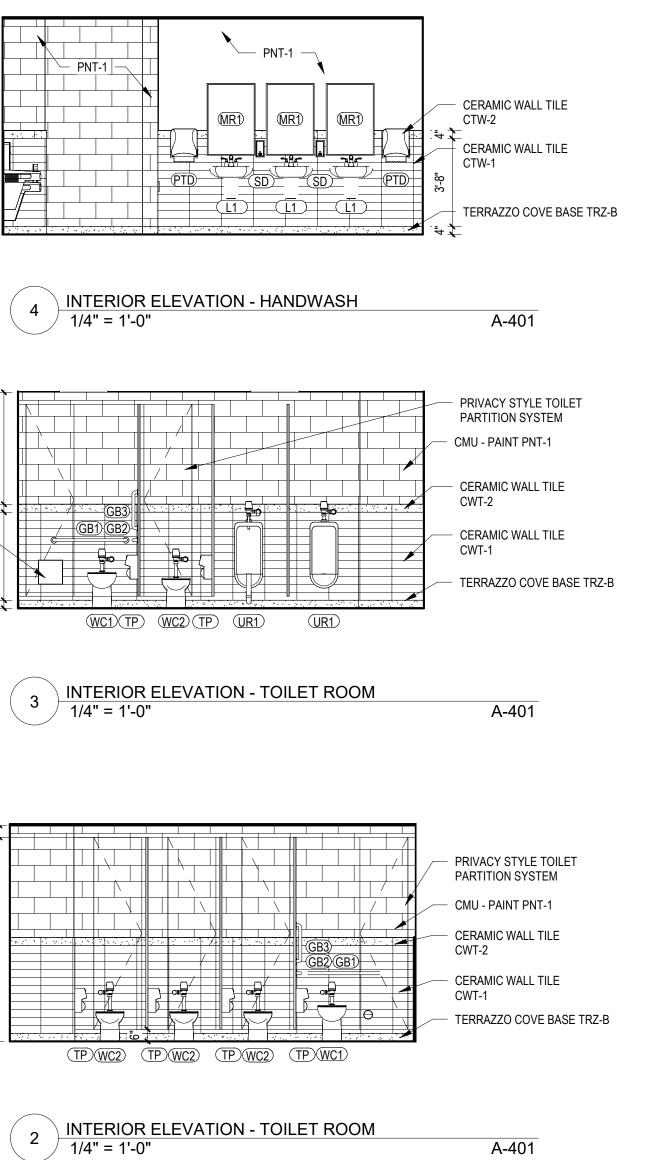


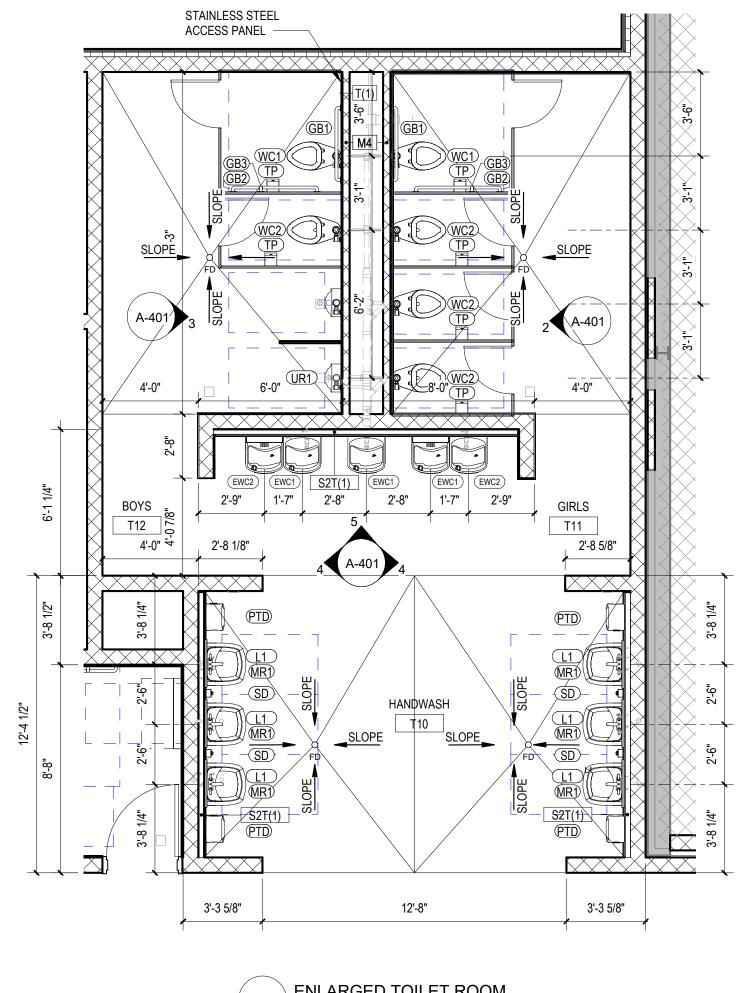


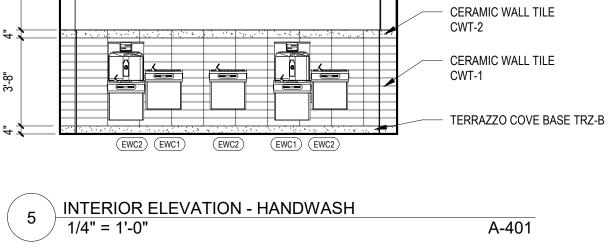
CERAMIC WALL
TILE CWT-2

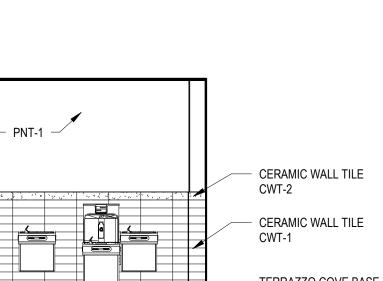


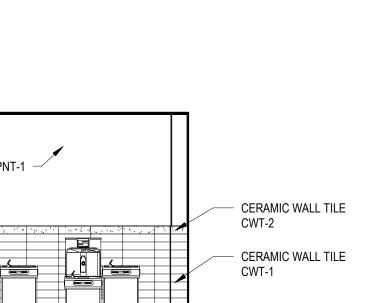
CMU - PAINT	
PNT-1	
CERAMIC WALL	
TILE CWT-1	
だ TERRAZZO COVE BASE TRZ-B	

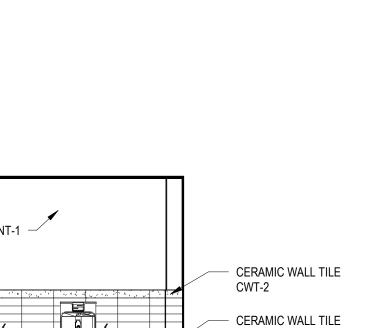


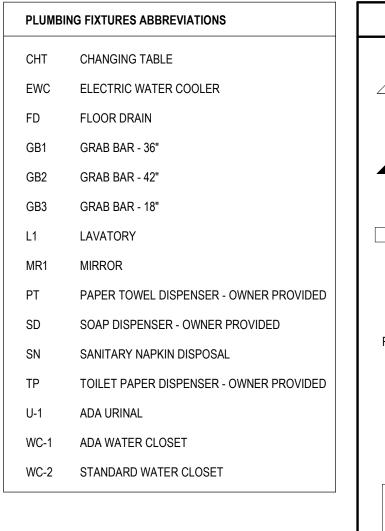


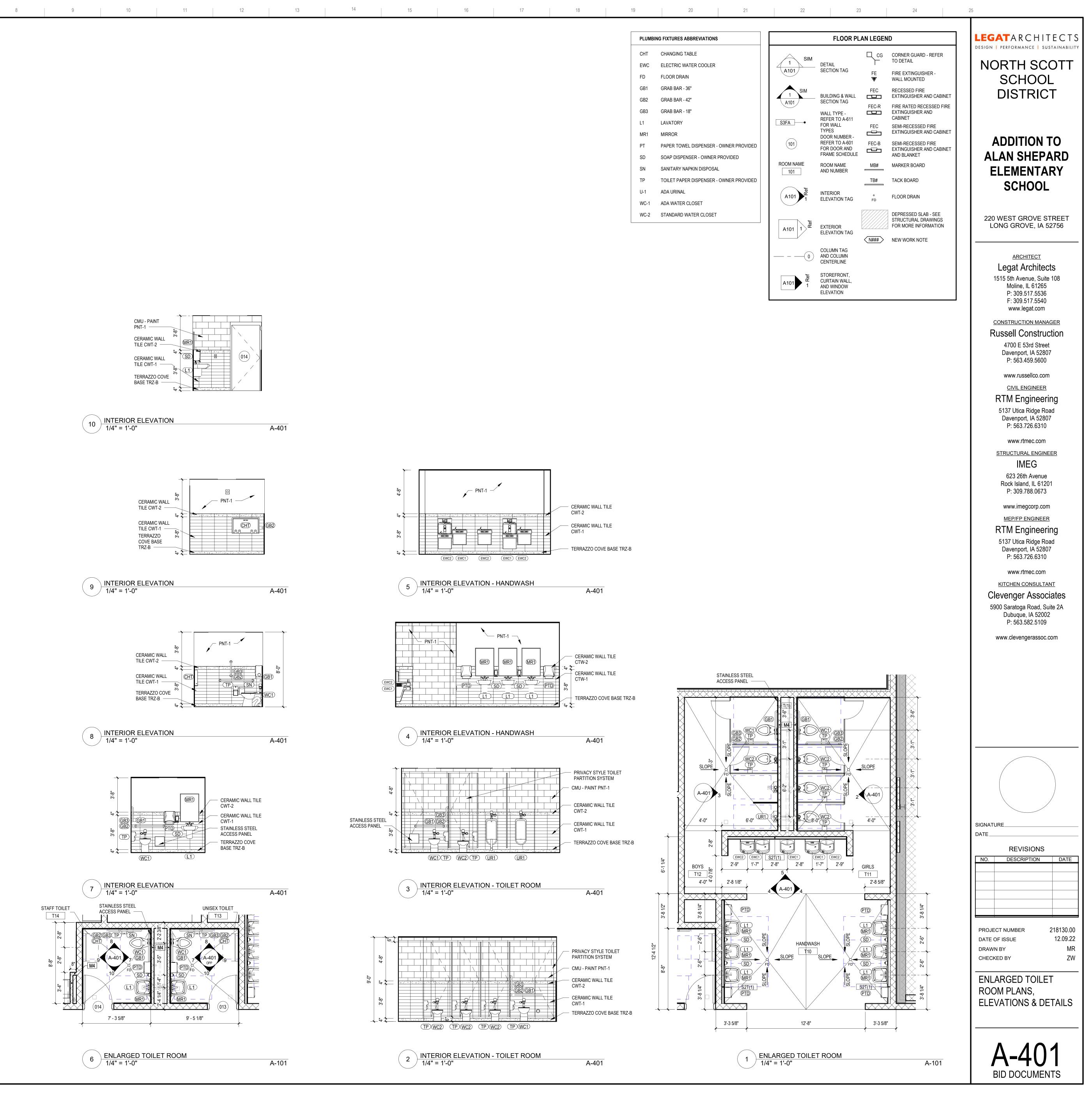




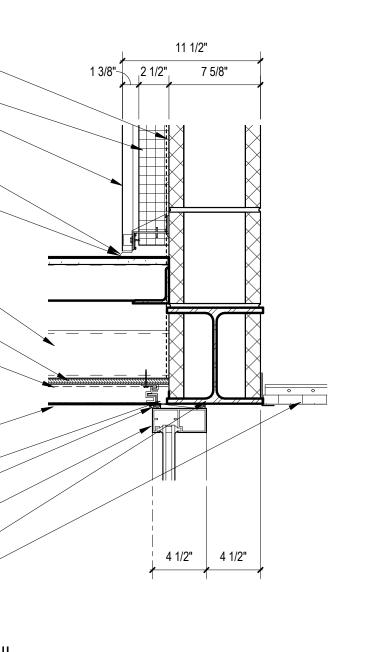


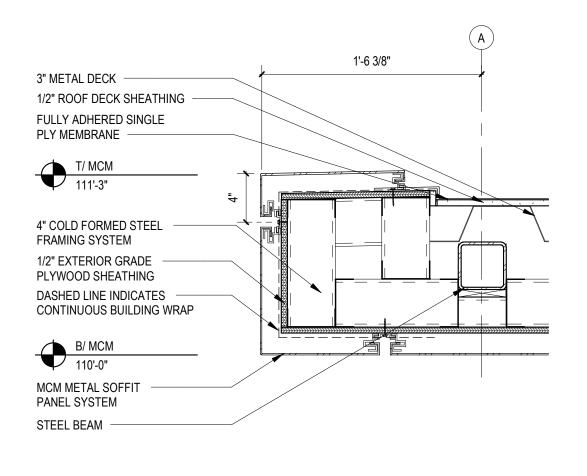




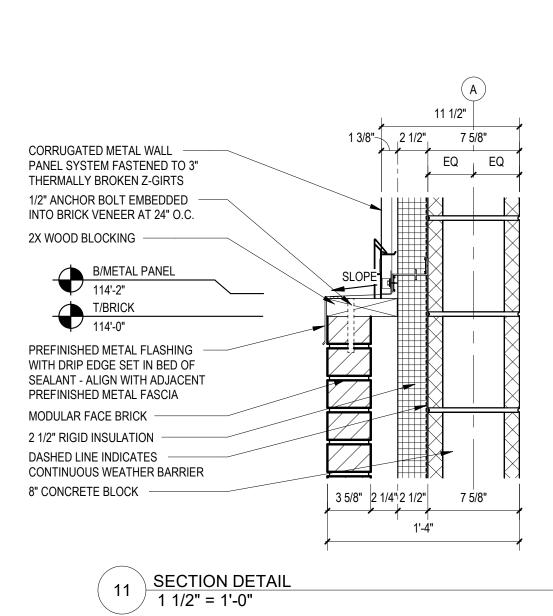


A		DASHED LINE INDICATES
	11 1/2"	2 1/2" RIGID INSULATION CORRUGATED METAL WALL
	1/2" 2 1/2" 7 5/8" 8" CONCRETE BLOCK 7/8"	PANEL SYSTEM FASTENED TO 3" THERMALLY BROKEN Z-GIRTS PREFINISHED METAL
В	DASHED LINE INDICATES CONTINUOUS AIR BARRIER	PANEL FLASHING CONTINUOUS SEALANT
	2 1/2" RIGID INSULATION CORRUGATED METAL WALL	T/ MCM 111'-3"
	PANEL SYSTEM MASONRY SOAPS - PAINT	4" COLD FORMED STEEL FRAMING SYSTEM 1/2" EXTERIOR GRADE
С	STEEL LINTEL - PAINT	PLYWOOD SHEATHING DASHED LINE INDICATES CONTINUOUS BUILDING WRAP
	PREFINISHED METAL THROUGH WALL FLASHING WITH DRIP EDGE	B/ MCM
	SHIM AS REQUIRED	MCM METAL SOFFIT PANEL SYSTEM
D	AND SEALANT - TYPICAL ALUMINUM FRAMED	CONTINUOUS SEALANT CONTINUOUS SEALANT AND BACKER ROD - BOTH SIDES
	STOREFRONT SYSTEM	ALUMINUM FRAMED STOREFRONT SYSTEM STEEL LINTEL - PAINT
	SUSPENDED ACOUSTICAL 3" 4 1/2" 4" CEILING SYSTEM	SUSPENDED ACOUSTICAL CEILING SYSTEM
E	20 SECTION DETAIL 1 1/2" = 1'-0" A-311	16 SECTION DETA 1 1/2" = 1'-0"
	A-311	1 1/2 - 1-0
F		1/2" PLYWOOD SHEATHING
		2X WOOD BLOCKING
		CLIP OVER FORMED RAIL WITH SPRING CLIPS
G	CONCRETE BLOCK BEYOND 3" 4 1/2" 4"	
	PREFINISHED ALUMINUM JAMB	3" NAIL BASE
	SHIM AS REQUIRED	UP PARAPET 1/2" COVER BOARD - TYPICAL
Н	ROD AND SEALANT - TYPICAL PREFINISHED METAL PANEL	RIGID INSULATION - TYPICAL CONTINUOUS VAPOR BARRIER OVER ROOF SHEATHING -
	SILL FLASHING 3" THERMALLY BROKEN Z-GIRT	OVERLAP WITH WEATHER BARRIER 1/2" COVER BOARD - TYPICAL
	CORRUGATED METAL WALL PANEL SYSTEM	3" METAL DECK
J	8" CONCRETE BLOCK WITH 1" BULLNOSE CORNER - PAINT 2 1/2" RIGID INSULATION	MCM WALL PANEL SYSTEM
	DASHED LINE INDICATES 1 3/8" 2 1/2" 7 5/8"	
	11 1/2"	
K	19 SECTION DETAIL 1 1/2" = 1'-0"	15 SECTION DETA 1 1/2" = 1'-0"
	(A) 1'-7"	
	FULLY ADHERED SINGLE PLY MEMBRANE SYSTEM - WRAP DOWN OVER WOOD BLOCKING	8" CONCRETE BLOCK DASHED LINE INDICATES CONTINUOUS WEATHER BARRIER
L	1/2" PLYWOOD SHEATHING	3" NAILBASE INSULATION
	SELF ADHERED FLASHING	CONTINUOUS SEALANT PREFINISHED METAL
М	CLIP OVER FORMED RAIL WITH SPRING CLIPS	COUNTERFLASHING STEEL ANGLE
101	CELL VENT SPACED 16" O.C. 1/2" COVER BOARD - TYPICAL	MEMBRANE SYSTEM 1/2" ROOF DECK SHEATHING
	3" NAIL BASE INSULATION	3" METAL DECK SUSPENDED ACOUSTICAL CEILING SYSTEM
Ν	RIGID INSULATION - TYPICAL	STEEL LINTEL - TYPICAL CONCRETE BLOCK SOAPS AT
	3" METAL DECK	4" COLD FORMED STEEL
	MODULAR FACE BRICK	B/ SOFFIT 110'-0"
Р	CONTINUOUS AIR BARRIER - OVERLAP WITH VAPOR BARRIER	MCM METAL SOFFIT PANEL SYSTEM ON 1/2" EXTERIOR GRADE PLYWOOD SHEATHING
	8" CONCRETE BLOCK	CONTINUOUS SEALANT
		CONTINUOUS BACKER ROD AND SEALANT - TYPICAL ALUMINUM FRAMED STOREFRONT SYSTEM
Q	18 SECTION DETAIL 1 1/2" = 1'-0"	14 <u>SECTION DETA</u> 1 1/2" = 1'-0"
	A 1'-4" 3 5/8" 2 1/4" 2 1/2" 7 5/8" 5 7/8"	
R	DASHED LINE INDICATES CONTINUOUS AIR BARRIER 2 1/2" CONTINUOUS RIGID	
	INSULATION COOLER WALL PANEL	ALUMINUM FRAMED STOREFRONT SYSTEM -
	MODULAR FACE BRICK REINFORCED CONCRETE WEARING FLOOR	ALUMINUM THRESHOLD - SECURE THRESHOLD TO CONCRETE SLAB WITH FLATHEAD STUD - TYPE EXPANSION
S	CELL VENT BEYOND SPACED 16" O.C.	ANCHORS SPACED 2'-0" O.C. WITH MINIMUM 4" EMBEDMENT
	CONTINUOUS THROUGH WALL FLASHING WITH STAINLESS STEEL DRIP EDGE	CONCRETE STOOP - SLOPE
	GROUT SOLID CONCRETE FOUNDATION WALL	1" RIGID INSULATION
Т	INSULATION 1/2" EXPANSION JOINT MATERIAL	DASHED LINE INDICATES CONTINUOUS VAPOR BARRIER - TURN UP AT EDGE OF SLAB AND SEAL CONTINUOUSLY TO FACE
	DASHED LINE INDICATES VAPOR BARRIER. TURN UP AT EDGE OF SLAB AND SEAL CONTINUOUSLY TO FACE	
U		CONCRETE FOUNDATION WALL
U	17 SECTION DETAIL 1 1/2" = 1'-0" A-311	13 SECTION DETA 1 1/2" = 1'-0"





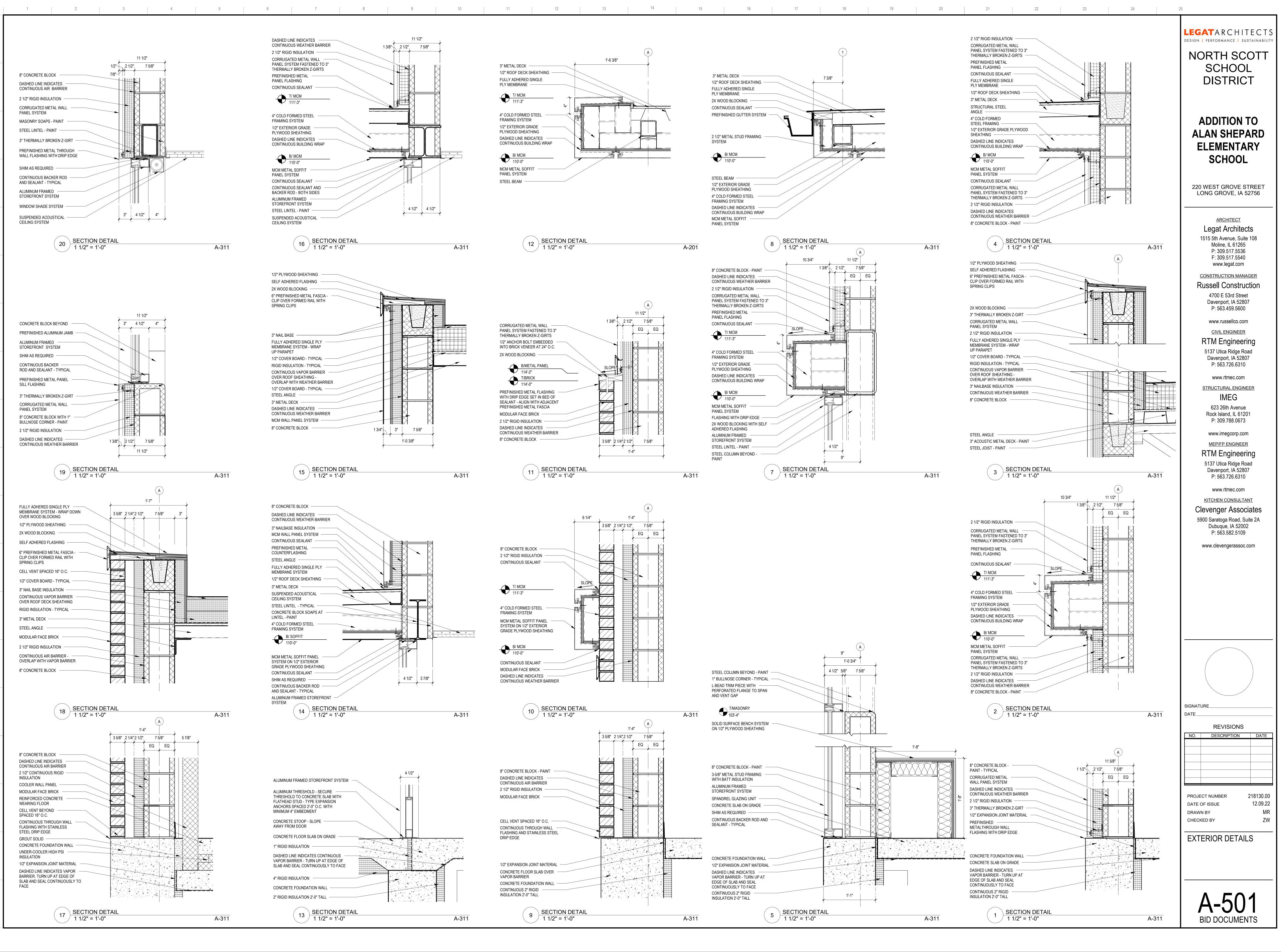
12 SECTION DETAIL 1 1/2" = 1'-0"



STEEL BEAM FRAMING SYSTEM

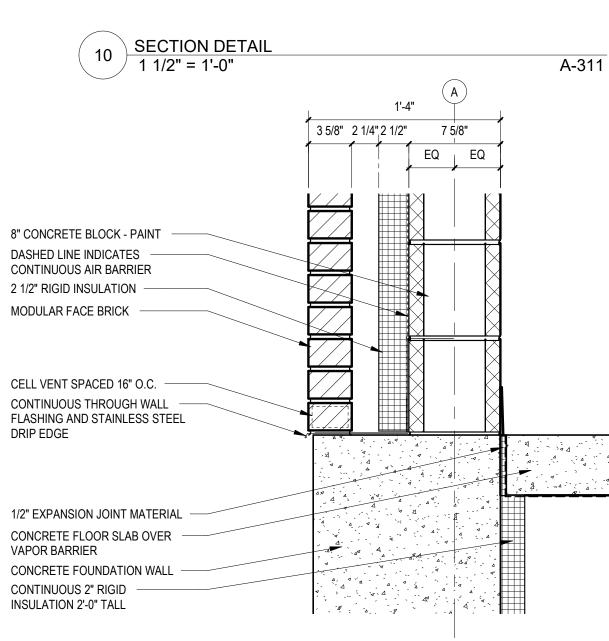
A-201

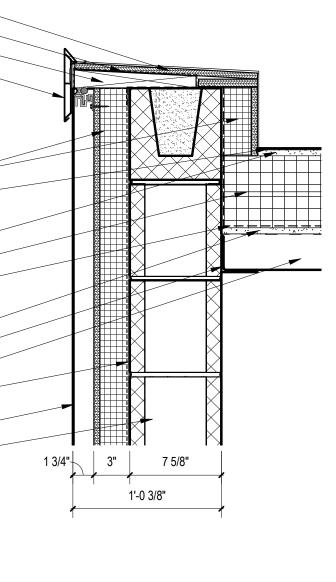
A-311



110'-0"
MCM METAL SOFFIT - PANEL SYSTEM
FLASHING WITH DRIP E
2X WOOD BLOCKING WI ADHERED FLASHING
ALUMINUM FRAMED
STEEL LINTEL - PAINT
STEEL COLUMN BEYON PAINT

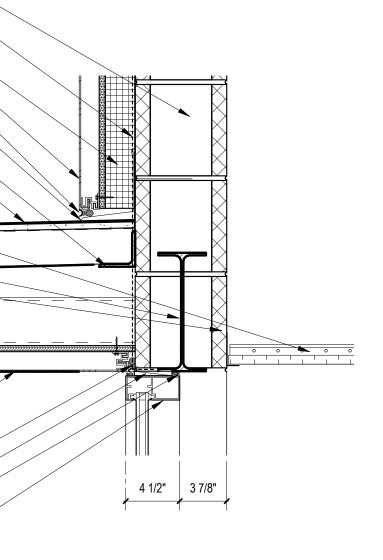
(A) 6 1/4" 1'-4" 3 5/8" 2 1/4" 2 1/2" 7 5/8" EQ EQ / / 8" CONCRETE BLOCK 2 1/2" RIGID INSULATION CONTINUOUS SEALANT -SI OPE T/ MCM 111'-3" 4" COLD FORMED STEEL FRAMING SYSTEM ____ MCM METAL SOFFIT PANEL SYSTEM ON 1/2" EXTERIOR GRADE PLYWOOD SHEATHING B/ MCM 110'-0" CONTINUOUS SEALANT MODULAR FACE BRICK DASHED LINE INDICATES CONTINUOUS WEATHER BARRIER

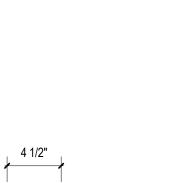




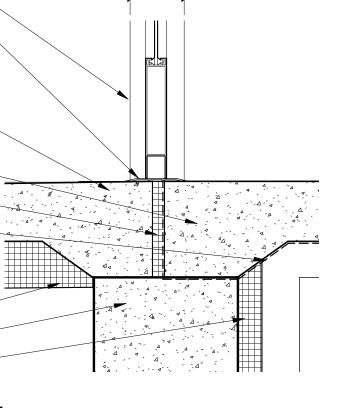
A-311

A-311



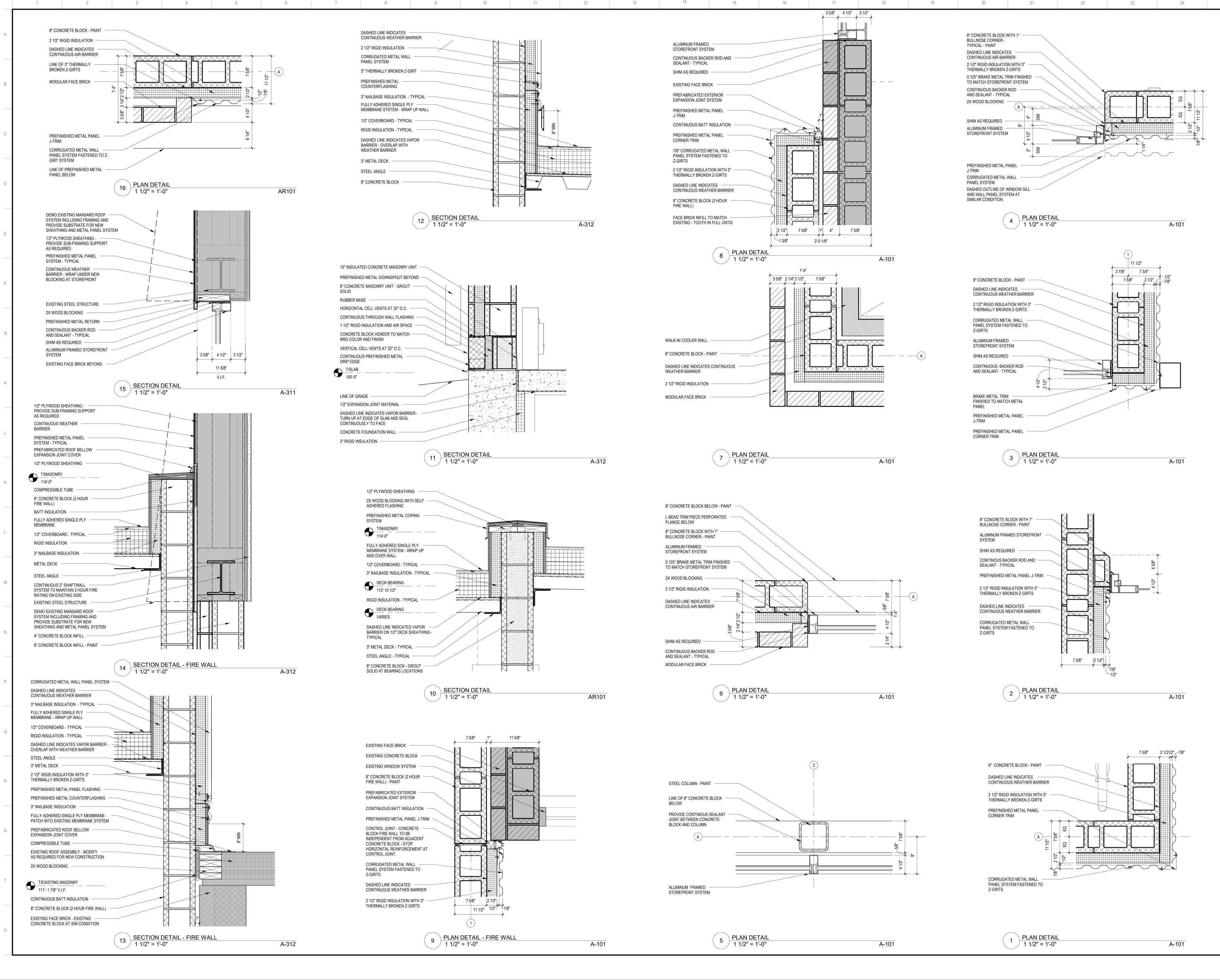


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A-311

A-311



TAL DOWNSPOUT BEYOND	
SONRY UNIT - GROUT	
L VENTS AT 32" O.C.	
ROUGH WALL FLASHING	
ATION AND AIR SPACE	
K VENEER TO MATCH	
ENTS AT 32" O.C.	
EFINISHED METAL	
OINT MATERIAL	
ICATES VAPOR BARRIER - E OF SLAB AND SEAL O FACE	
DATION WALL	
ON	

EXPANSION JOINT SYSTEM	<
PREFINISHED METAL PANEL	
CONTINUOUS BATT INSULATION	_
PREFINISHED METAL PANEL	
7/8" CORRUGATED METAL WALL PANEL SYSTEM FASTENED TO Z-GIRTS	$\langle \rangle$
2 1/2" RIGID INSULATION WITH 3" THERMALLY BROKEN Z-GIRTS	
DASHED LINE INDICATES CONTINUOUS WEATHER BARRIER	
8" CONCRETE BLOCK (2 HOUR	
FACE BRICK INFILL TO MATCH	
	2 1/2"
8 PLAN DETAIL 1 1/2" = 1'-0"	/
	3 5/8" 2 1/

PLAN DETAIL 1 1/2" = 1'-0"

(A)

2 PLAN DETAIL 1 1/2" = 1'-0"

8" CONCRETE BLOCK - PAINT

CONTINUOUS WEATHER BARRIER

2 1/2" RIGID INSULATION WITH 3"

THERMALLY BROKEN Z-GIRTS

PREFINISHED METAL PANEL

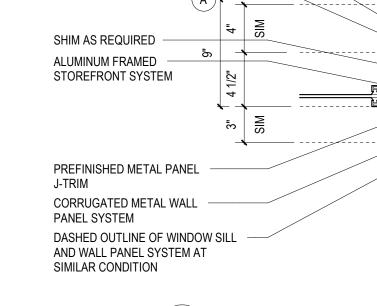
CORRUGATED METAL WALL

PANEL SYSTEM FASTENED TO

CORNER TRIM

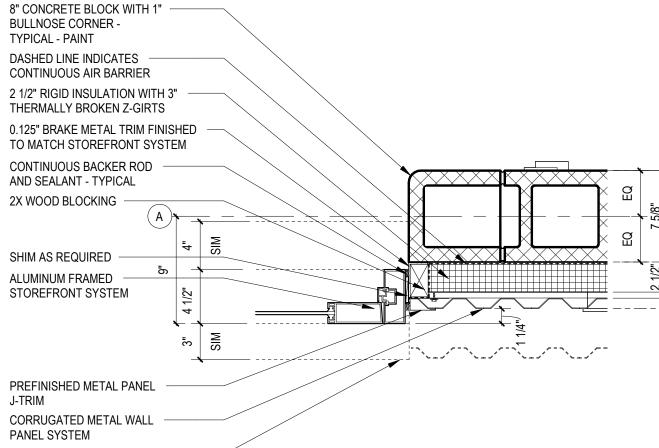
Z-GIRTS

DASHED LINE INDICATES

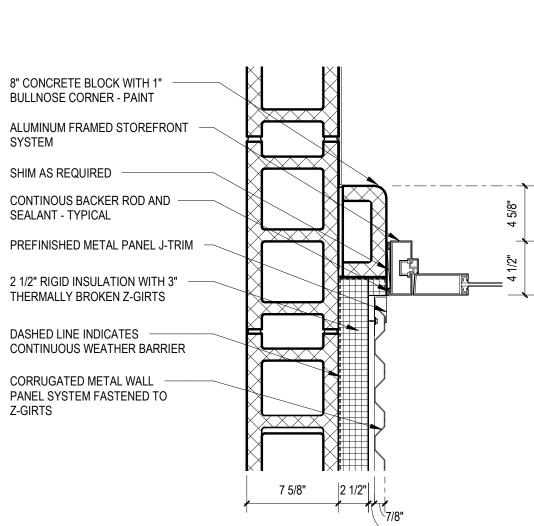


PLAN DETAIL

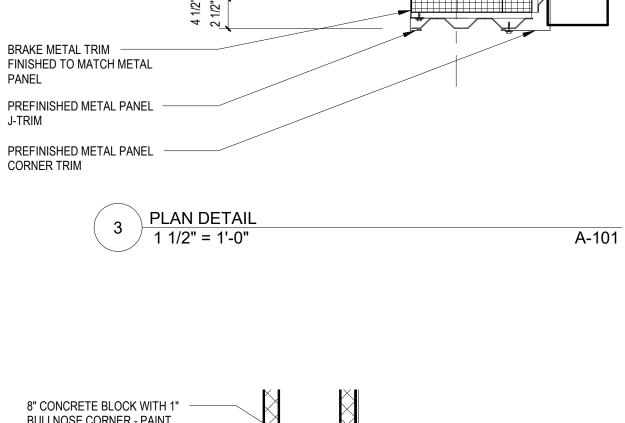
1 1/2" = 1'-0"

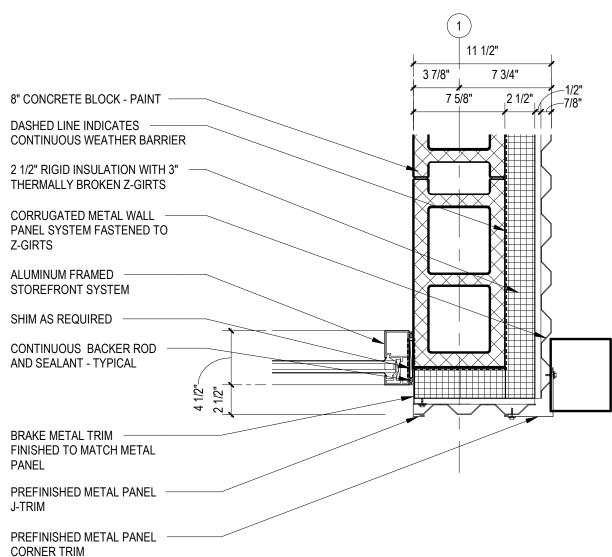


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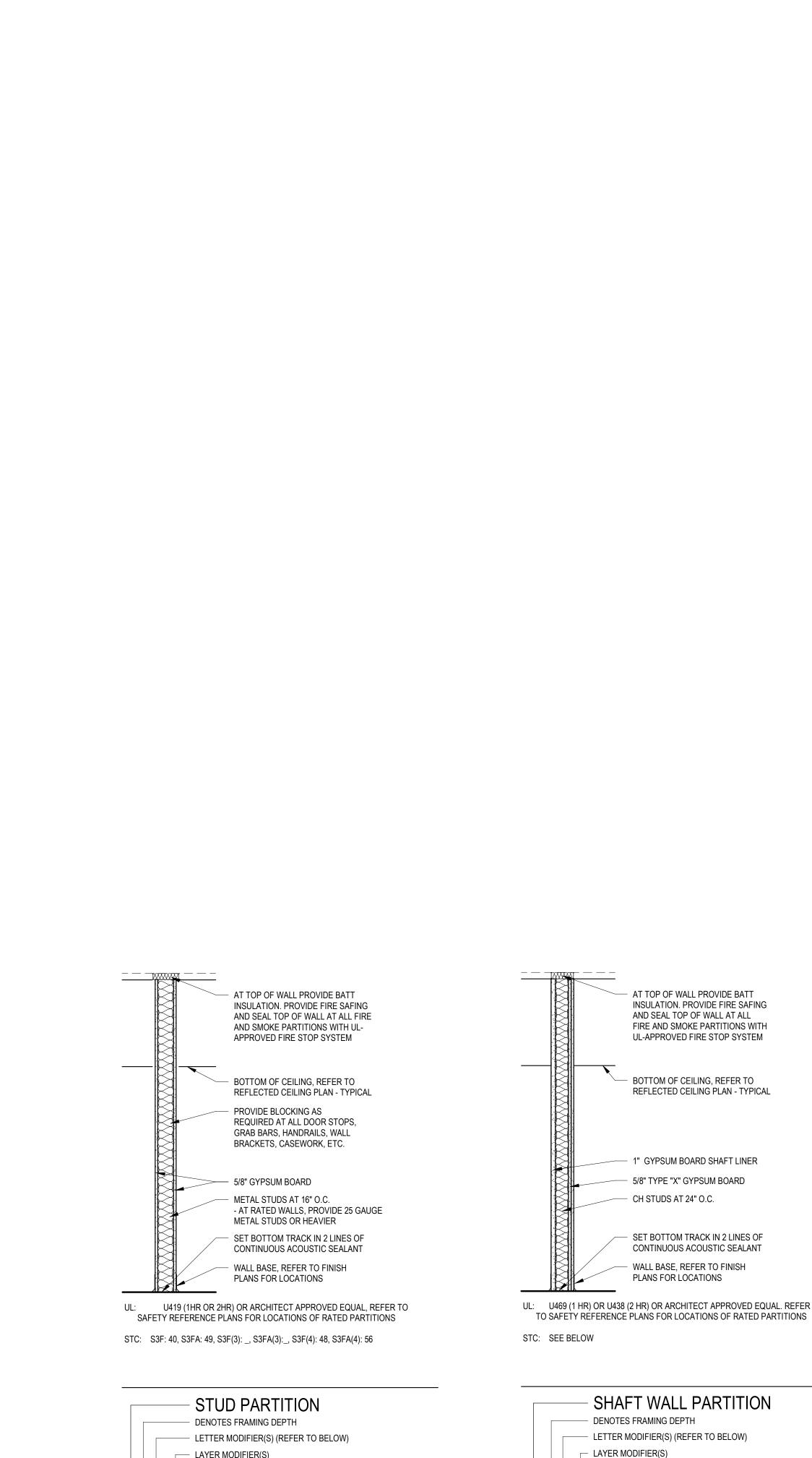


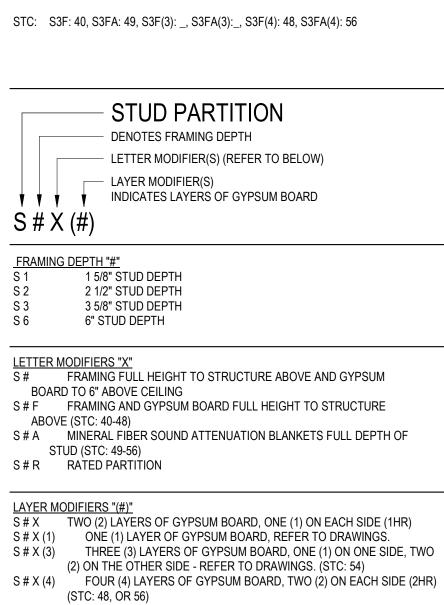
A-101

7 5/8" 2 1/21/2", 7/8"

1 11/1









MINERAL FIBER SOUND ATTENUATION BLANKETS FULL

CH # X (#)

RAMING DEPTH "#"

LETTER MODIFIERS "X"

LAYER MODIFIERS "(#)"

CH # X (1) 1 HR

CH # X (2) 2 HR

NOTES

CH#A

CH 2 2 1/2" FRAMING DEPTH

CH 4 4" FRAMING DEPTH CH 6 6" FRAMING DEPTH

DEPTH OF STUD

(STC: 42 BASED ON 4"STUD)

(STC: 50 BASED ON 4"STUD)

- INDICATES LAYERS OF GYPSUM BOARD

NON-LOAD BEARING WALLS CONCRETE BLOCK WITH 2 HR ASSEMBLIES. REFER TO SAFETY RATED PARTITIONS WALL BASE, REFER TO FINISH PLANS FOR LOCATIONS STC: SEE BELOW

UL: U905 (2HR); U906 (2HR) 6" AND 8" CMU ONLY; U904 (3HR); U901 (4HR)

- CMU PARTITION

LETTER MODIFIER(S) (REFER TO BELOW)

1. STC VARIES BASED ON DENSITY AND TYPE OF CMU, AND TYPE OF FILL

2. REFER TO STRUCTURAL DRAWINGS FOR TOP OF WALL CONDITION AT LOAD

- DENOTES CMU DEPTH

LAYER MODIFIER(S)

M # X (#)

<u>CMU DEPTH "#"</u> M 4 4" CMU

M 6 6" CMU M 8 8" CMU

<u>NOTES</u>

LETTER MODIFIERS "X"

M # STANDARD CMU

WHERE REQUIRED.

M 10 10" CMU (STC: 46)

M 12 12" CMU (STC: 48)

M # R1 1-HOUR RATED PARTITION

M # R22-HOUR RATED PARTITION

BEARING CMU PARTITIONS.

FURRING OR VENEER APPLICATION

(STC: 40)

(STC: 42) (STC: 44)

- REFERENCE PLANS FOR LOCATIONS OF
- REINFORCING. REFER TO PROJECT MANUAL FOR REINFORCING REQUIREMENTS CLASSIFICATION AT RATED WALL

- CONCRETE BLOCK WITH HORIZONTAL
- FOR LATERAL BRACING OF INTERIOR
- BOTTOM OF CEILING, REFER TO **REFLECTED CEILING PLAN - TYPICAL** REFER TO STRUCTURAL DRAWINGS
- SMOKE SEAL TOP OF WALL AT ALL FIRE AND SMOKE PARTITIONS WITH UL-APPROVED FIRE STOP SYSTEM AT DECK FLUTES PROVIDE BATT INSULATION
- AT TOP OF WALL PROVIDE BATT INSULATION. PROVIDE FIRE SAFING AND

- MASKING MATERIAL IMMEDIATELY AFTER TOOLING SEALANT SURFACE BACKER ROD & SEALANT DETAIL 12" = 1'-0"

INSTALLATION INSTRUCTIONS

OF SEALANT

INSTRUCTIONS

AND ASTM C1193

REMOVABLE

ASTM C1193

4. INSTALL BACKER ROD, USE BOND

5. MASK ELEMENTS AND SURFACES

BE AWARE THAT SEALANT DRIPS AND

SMEARS MAY NOT BE COMPLETELY

ROD CANNOT BE USED

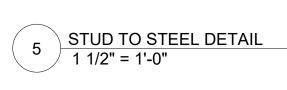
6. PERFORM INSTALLATION PER

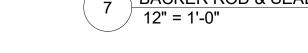
7. TOOL SURFACE CONCAVE, UNLESS OTHERWISE INDICATED; REMOVE

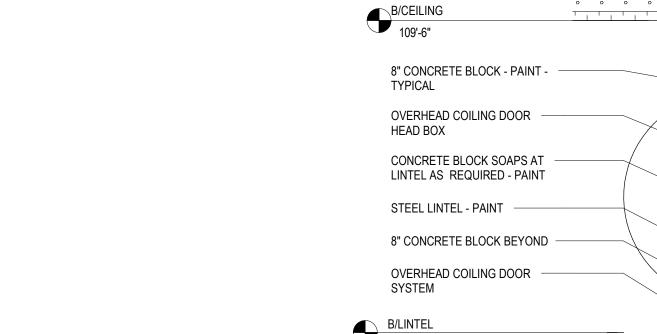
VARIES

6 KICKER TO METAL DECK 1 1/2" = 1'-0"

- WHERE METAL RUNNER CANNOT BE ANCHORED DIRECTLY TO STEEL DECK PROVIDE CONTINUOUS 14 GA. GALVANIZED SHEET METAL PLATE ANCHORED TO STEEL DECK. ANCHOR RUNNER TO SHEET METAL PLATE. ANCHOR RUNNER TO WHERE STEEL FLOOR OR ROOF DECK STEEL DECK.
- 11 AT TOP OF WALL PROVIDE BATT
- REFER TO PARTITION TYPES FOR PARTITION CONSTRUCTION

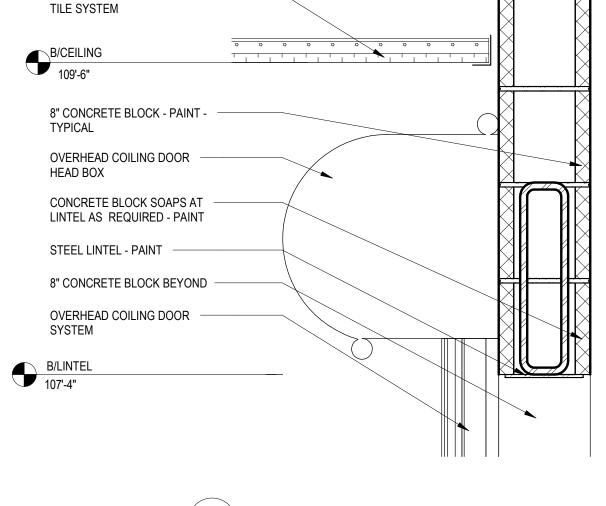


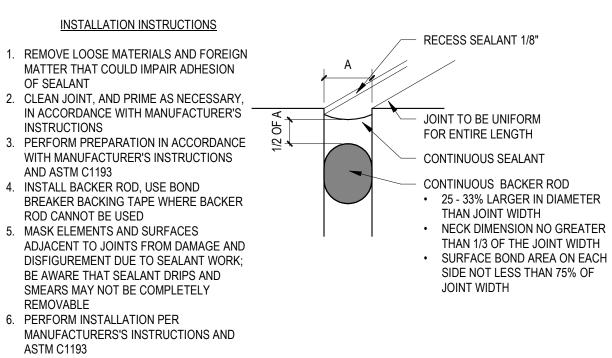


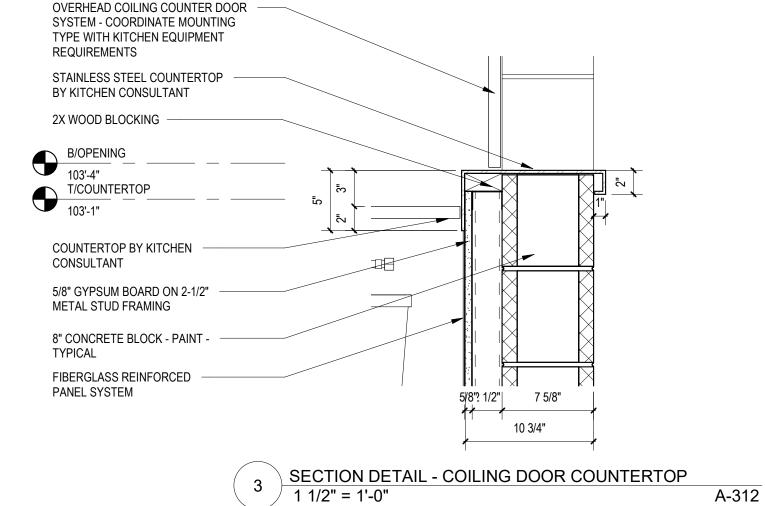


SUSPENDED ACOUSTIC CEILING

4 SECTION DETAIL - OVERHEAD DOOR HEAD DETAIL 1 1/2" = 1'-0" A-312







- LINE OF STRUCTURE RIGIDLY BRACE TO STRUCTURE ABOVE W/ METAL STUDS @ 48" O.C. MAX. - METAL STUD FRAMING @ 16" OC ANCHORED TO STRUCTURE ABOVE - CONTINUOUS METAL STUD RUNNER CHANNEL SEE RCP OR ELEVATIONS

OCCURS, INFILL VOID SPACE. FOR

PARTITIONS BOTH PERPENDICULAR

AND PARALLEL TO STEEL DECK.

BEAMS

SEALANT OR

ELASTOMERIC SPRAY

(BOTH SIDES)

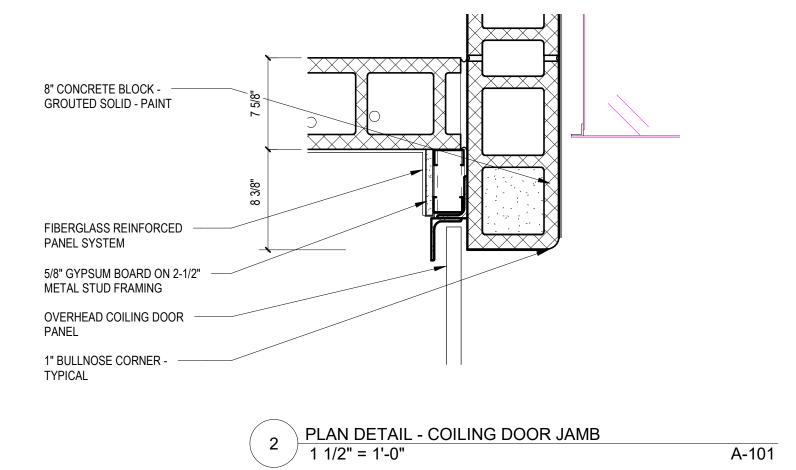
INSULATION. PROVIDE FIRE SAFING

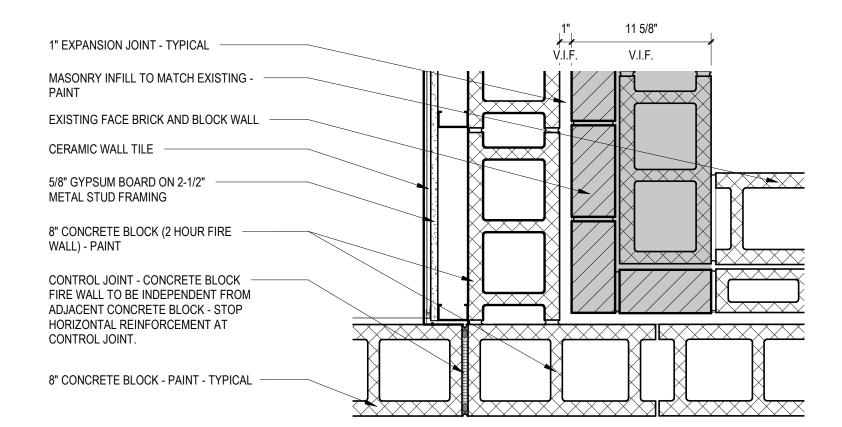
AND SEAL TOP OF WALL AT ALL FIRE

AND SMOKE PARTITIONS WITH UL-

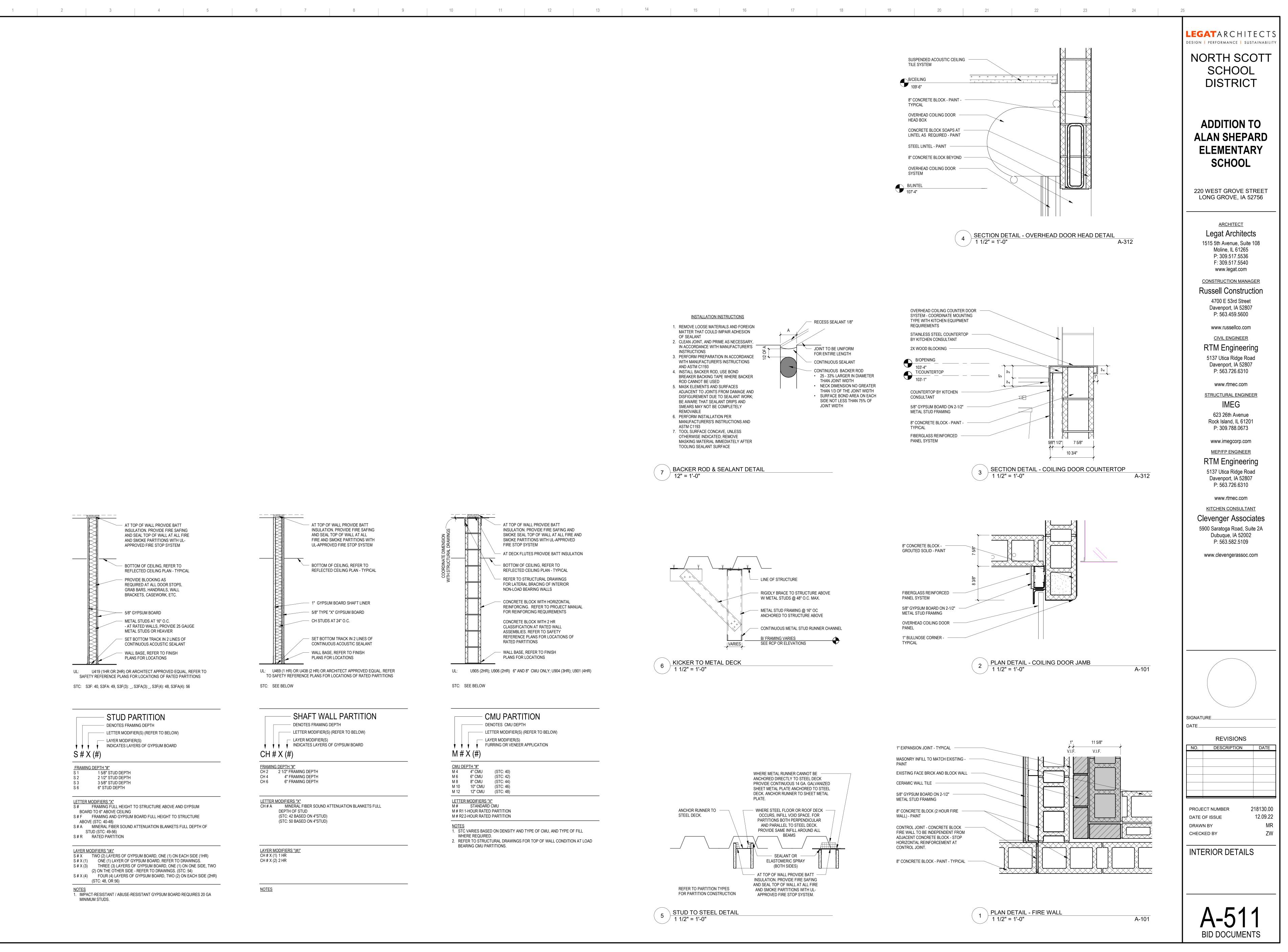
APPROVED FIRE STOP SYSTEM.

PROVIDE SAME INFILL AROUND ALL

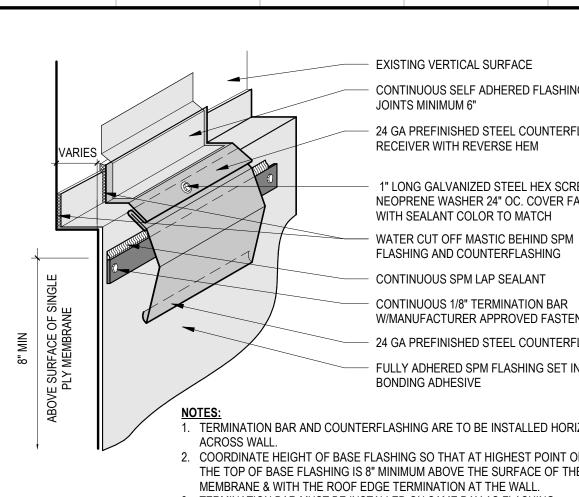




PLAN DETAIL - FIRE WALL 1 1/2" = 1'-0"

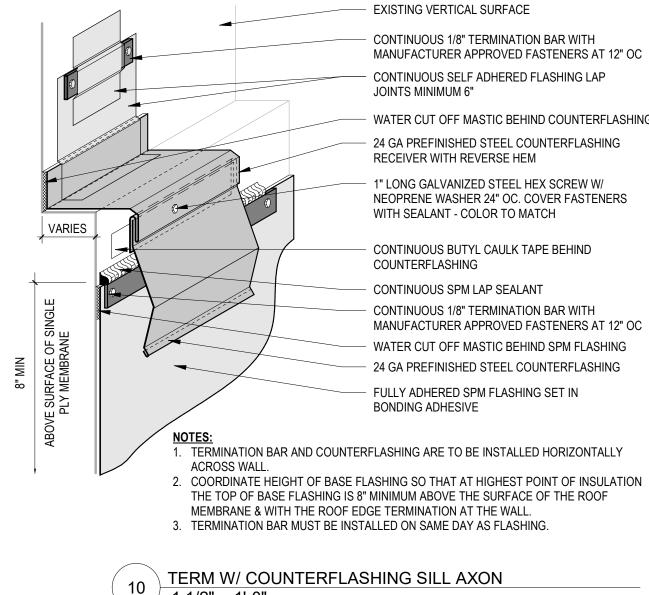


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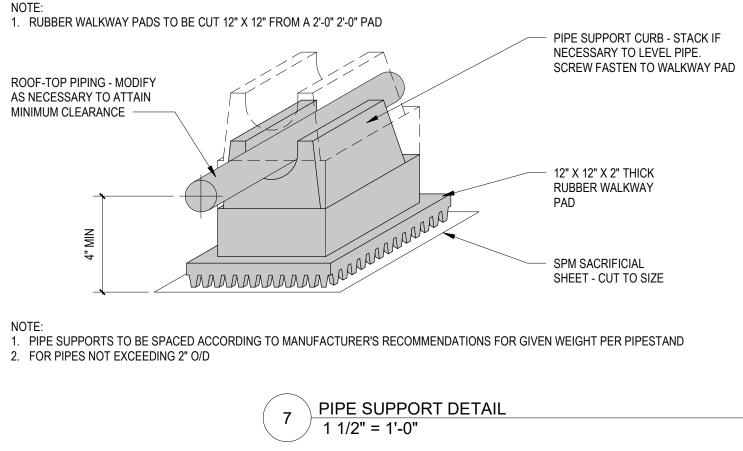
. TERMINATION BAR AND COUNTERFLASHING ARE TO BE INSTALLED HORIZONTALLY 2. COORDINATE HEIGHT OF BASE FLASHING SO THAT AT HIGHEST POINT OF INSULATION THE TOP OF BASE FLASHING IS 8" MINIMUM ABOVE THE SURFACE OF THE ROOF MEMBRANE & WITH THE ROOF EDGE TERMINATION AT THE WALL. 3. TERMINATION BAR MUST BE INSTALLED ON SAME DAY AS FLASHING.

11 TERM W/ COUNTERFLASHING SILL AXON 1 1/2" = 1'-0"



1 1/2" = 1'-0"

CONTINUOUS SEALANT - 1 1/4" X 1/4" TAPCON SCREW FASTENER W/ CLIMASEAL CORROSION RESISTIVE COATING & NEOPRENE WASHERS AT 1'-0" OC THRU 5/16" PREDRILLED PILOT HOLES. - CONTINUOUS BUTYL CAULK TAPE BEHIND COUNTERFLASHING CONTINUOUS SPM LAP SEALANT - CONTINUOUS 1/8" TERMINATION BAR - SPM LAP SEALANT BEHIND 1/8" THICK TERMINATION BAR - ROOFING SYSTEM MANUFACTURER APPROVED FASTENER - WATER CUT-OFF MASTIC BEHIND SPM FLASHING - 24 GA PREFINISHED STEEL COUNTERFLASHING - FULLY ADHERED SPM FLASHING SET IN BONDING ADHESIVE NOTES: 1. TERMINATION BAR & COUNTERFLASHING ARE TO BE INSTALLED HORIZONTALLY ACROSS WALL. COORDINATE HEIGHT OF BASE FLASHING SO THAT AT HIGHEST POINT OF INSULATION THE TOP OF THE BASE FLASHING IS 8" MIN. ABOVE THE SURFACE OF THE SINGLE PLY MEMBRANE. 2. TERMINATION BAR TO BE INSTALLED ATOP SPM BASE FLASHING ON SAME DAY BASE FLASHING IS INSTALLED. **TERMINATION W/ COUNTERFLASHING** 8 / 6" = 1'-0"





CONTINUOUS SELF ADHERED FLASHING LAP

24 GA PREFINISHED STEEL COUNTERFLASHING

1" LONG GALVANIZED STEEL HEX SCREW W/

NEOPRENE WASHER 24" OC. COVER FASTENERS WITH SEALANT COLOR TO MATCH

FLASHING AND COUNTERFLASHING

- CONTINUOUS SPM LAP SEALANT CONTINUOUS 1/8" TERMINATION BAR W/MANUFACTURER APPROVED FASTENERS AT 12" OC

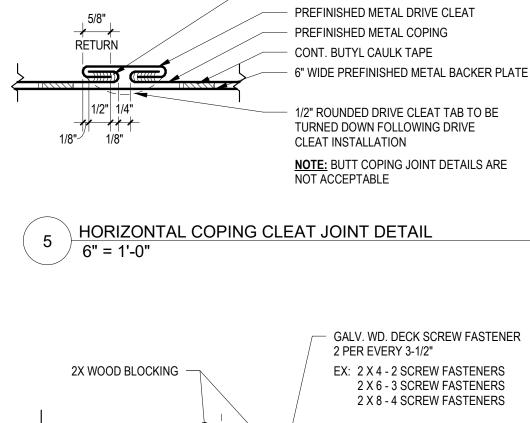
- 24 GA PREFINISHED STEEL COUNTERFLASHING

FULLY ADHERED SPM FLASHING SET IN

MANUFACTURER APPROVED FASTENERS AT 12" OC

WATER CUT OFF MASTIC BEHIND COUNTERFLASHING

MANUFACTURER APPROVED FASTENERS AT 12" OC



45.00

4 TYP. MILTERED WOOD BLOCKING DETAIL 6" = 1'-0"

SPM FIELD MEMBRANE

SPM FIELD MEMBRANE

SEAM TAPE

NOTES:

EPDM LAP SEAM W/ COVER STRIP

COVERBOARD

BY ARCHITECT.

SELF-ADHERING SEMI CURED SPM

COVER STRIP SET IN SPLICE ADHESIVE

CONTAMINANTS & PREPARE SEAM FOR COVER STRIP.

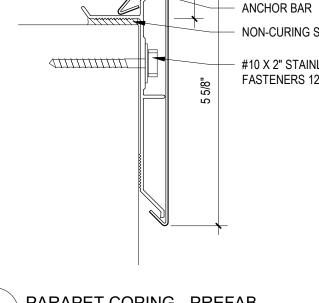
BEVEL TO 45 DEGREES

- 1/2" ROUNDED DRIVE CLEAT TAB TO BE TURNED DOWN FOLLOWING DRIVE NOTE: BUTT COPING JOINT DETAILS ARE

6" WIDE PREFINISHED METAL BACKER PLATE

INSTALL CONT. BEAD OF SEALANT PRIOR TO INSTALLING DRIVE CLEAT

6 PARAPET COPING - PREFAB 6" = 1'-0"

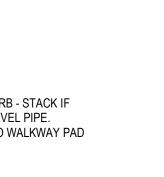


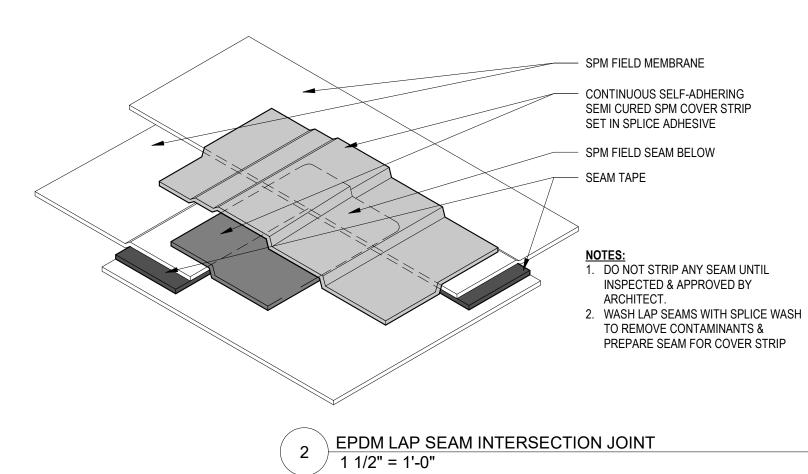
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FASCIA COVER (12'-0" LENGTHS) 24 GA GALVANIZED STEEL

- NON-CURING SEALANT - #10 X 2" STAINLESS STEEL FASTENERS 12" OC

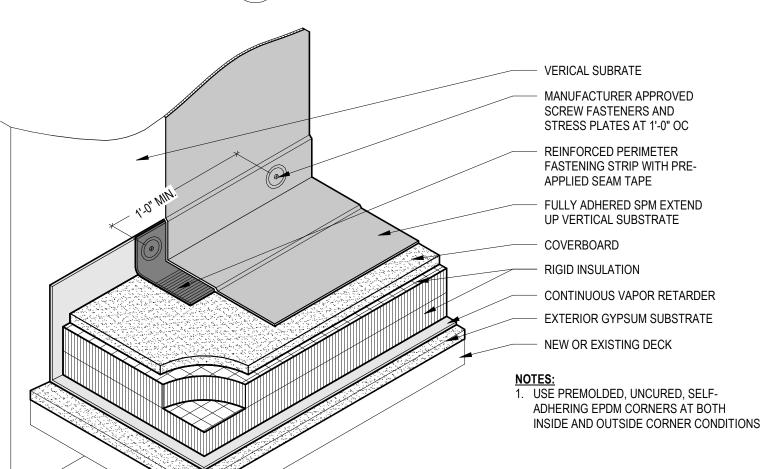
EPDM BASE FLASHING AXON 1 1/2" = 1'-0"

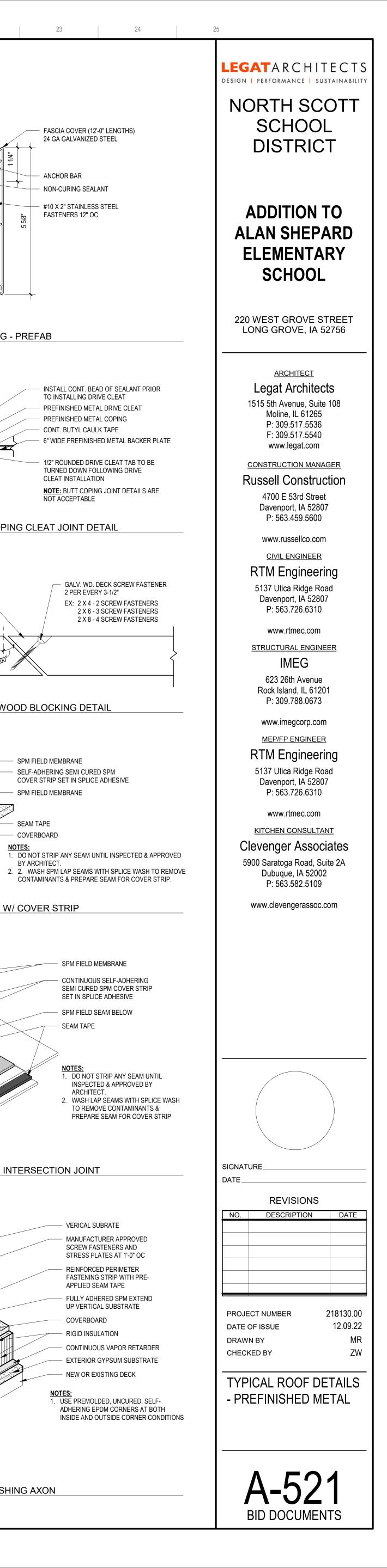




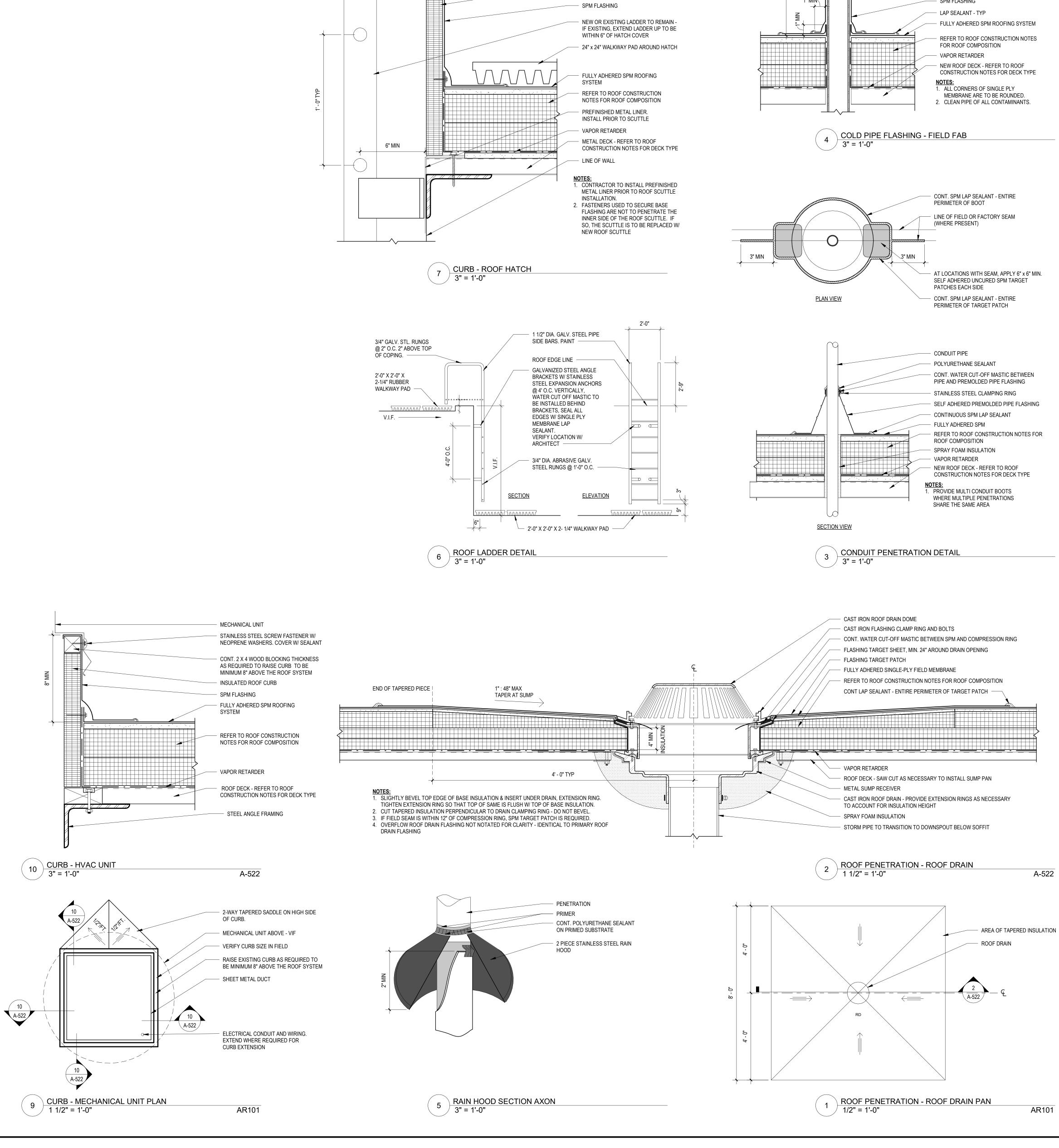
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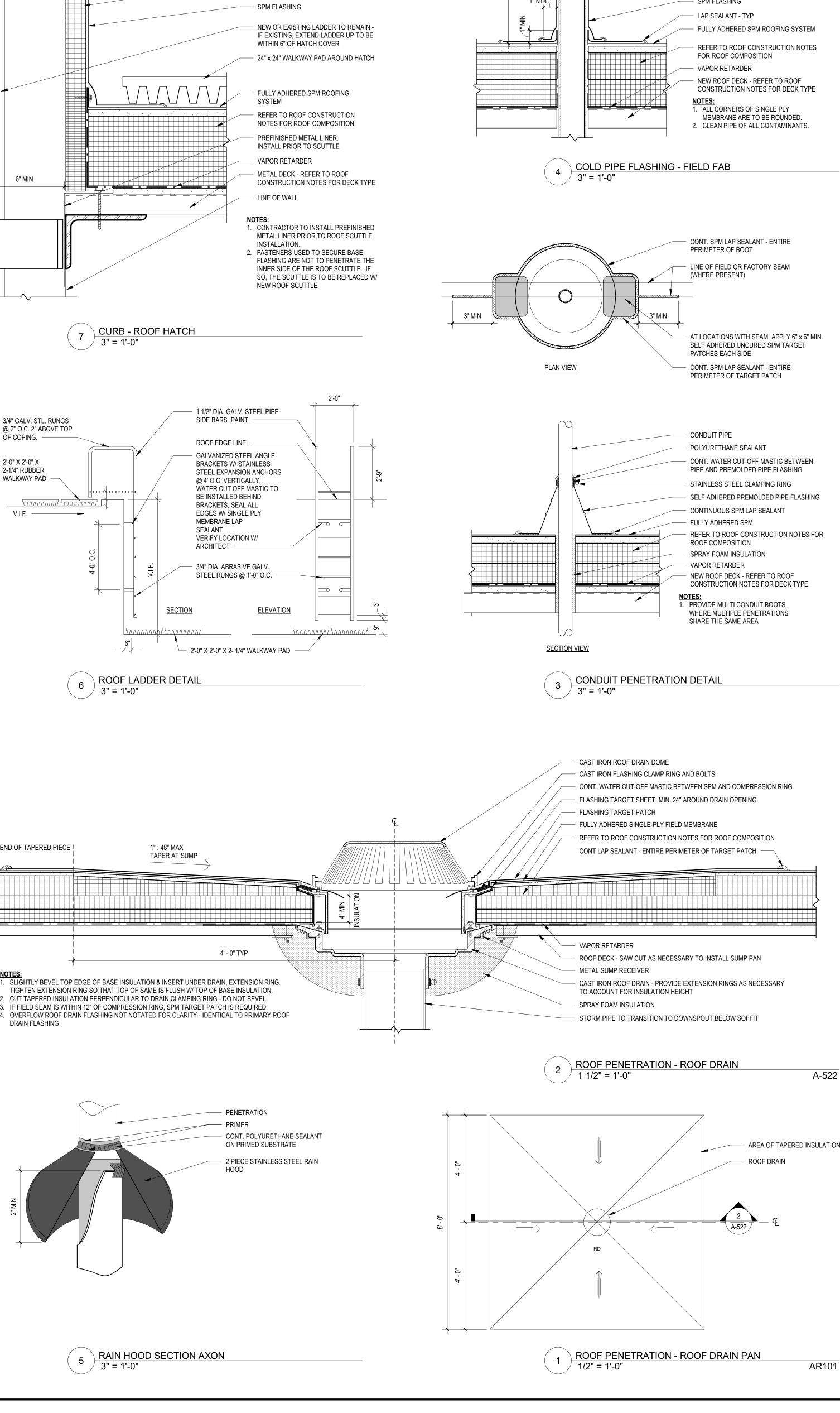
³ 1 1/2" = 1'-0"

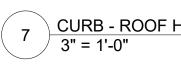


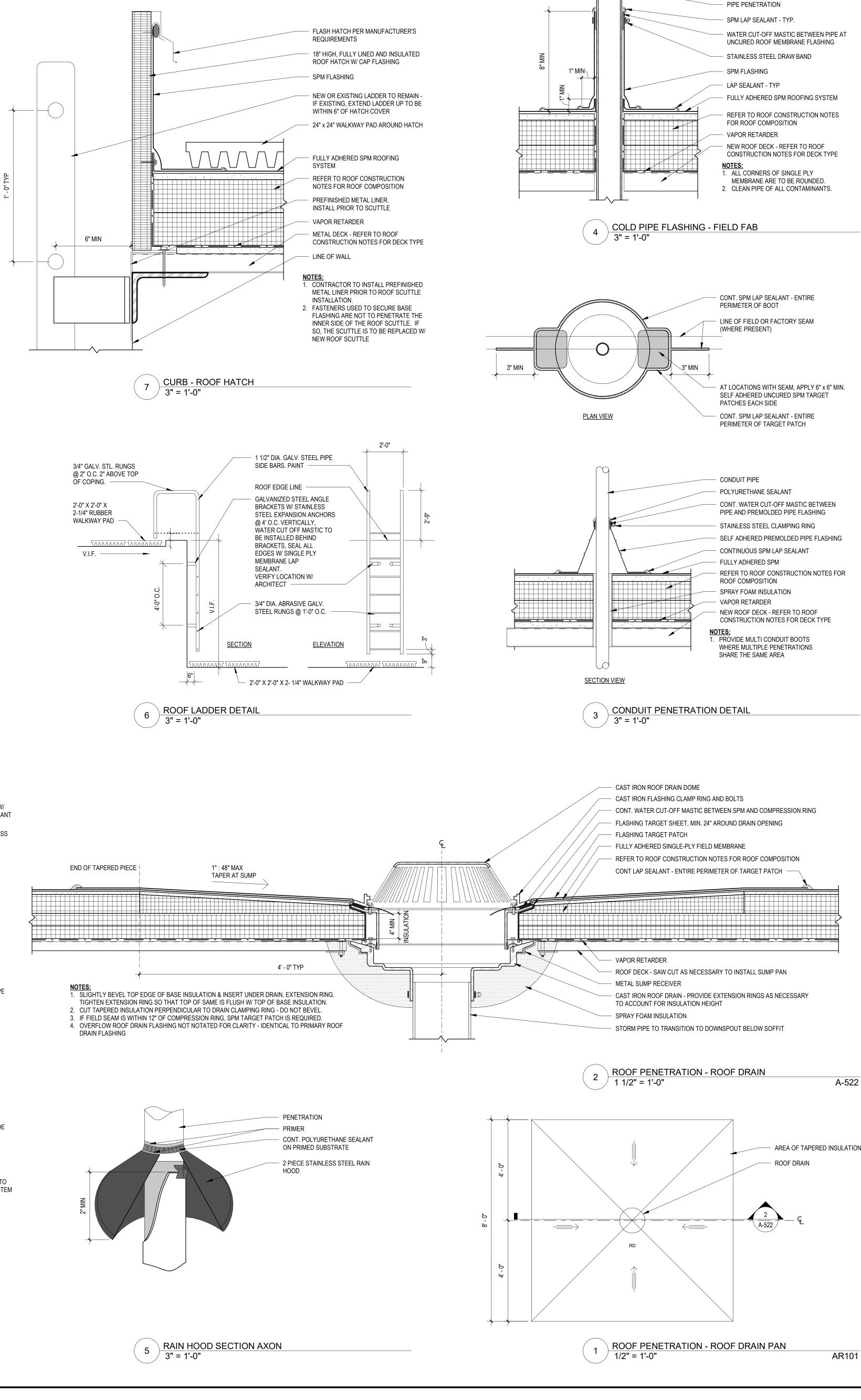


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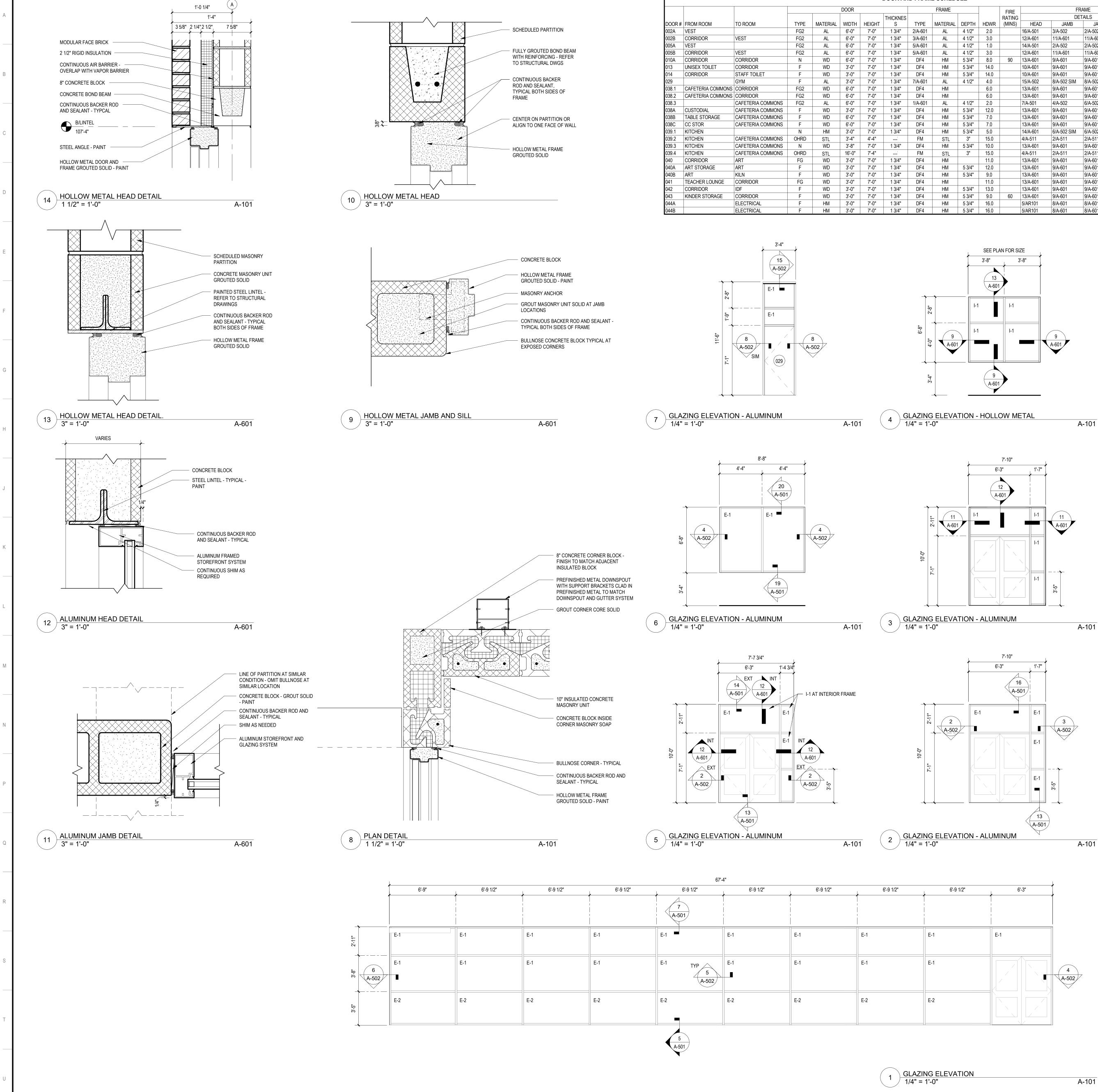










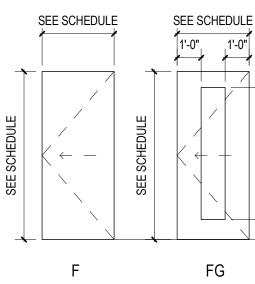


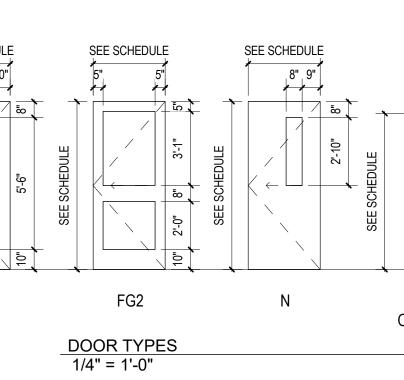
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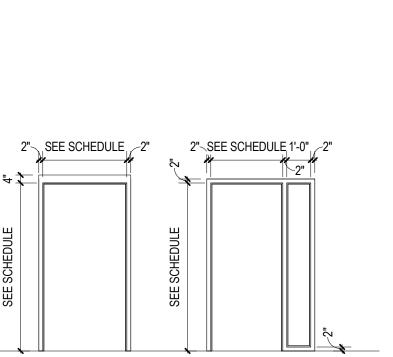
						DOOR AN	ND FRAM	NE SCHED	DULE									GENERAL	NOTES
				DOOR				FRAME			FIRE		FRAME				ENERAL:		
4	DOOR # FROM ROOM TO ROOM	TYPE	MATERIAL	WIDTH	HEIGHT	THICKNES	TYPE	MATERIAL	DEPTH	HDWR	RATING (MINS)	HEAD	DETAILS JAMB JA	MB SILL R	EFERENCED NOTES		ALL DOOR AND FRAME FRAME WIDTHS ARE II		
SCHEDULED PARTITION	002A VEST	FG2	AL	6'-0"	7'-0"	1 3/4"	2/A-601	AL	4 1/2"	2.0	16		3/A-502 2/A-502				INDICATED ON THE FF		IMENSIONS ARE INDIC
	002B CORRIDOR VEST	FG2	AL	6'-0"	7'-0"	1 3/4"	3/A-601	AL	4 1/2"	3.0	12	/A-601	11/A-601 11/A-60	01 2			DOOR AND FRAME SC DIMENSIONS ARE IND		
	005A VEST	FG2	AL	6'-0"	7'-0"	1 3/4"	5/A-601	AL	4 1/2"	1.0	14	/A-501	2/A-502 2/A-502	2 13/A-501 1,2			VERIFIED PRIOR TO P		
FULLY GROUTED BOND BEAM	005B CORRIDOR VEST	FG2	AL	6'-0"	7'-0"	1 3/4"	5/A-601	AL	4 1/2"	3.0	12	/A-601	11/A-601 11/A-60)1 2		4.	THE MANUFACTURER	(S) SHALL BE RESPON	ISIBLE FOR THE ENGINI
WITH REINFORCING - REFER TO STRUCTURAL DWGS	010A CORRIDOR CORRIDOR	N	WD	6'-0"	7'-0"	1 3/4"	DF4	HM	5 3/4"	8.0	90 13	/A-601	9/A-601 9/A-601	3,4			STRUCTURAL INTEGR		
	013 UNISEX TOILET CORRIDOR	F	WD	3'-0"	7'-0"	1 3/4"	DF4	HM	5 3/4"	14.0	10		9/A-601 9/A-601				ALL FRAMES IN MASO FRAME SCHEDULE AN		
	014 CORRIDOR STAFF TOILET	F	WD	3'-0"	7'-0"	1 3/4"	DF4	HM	5 3/4"	14.0			9/A-601 9/A-601				ALL OPENINGS IN FRA		
CONTINUOUS BACKER ROD AND SEALANT,	029 GYM	F	AL	3'-0"	7'-0"	1 3/4"	7/A-601	AL	4 1/2"	4.0			8/A-502 SIM 8/A-502	2 13/A-501			FOR DOOR OPENINGS	S. GLAZING TYPES FO	R EXTERIOR FRAMES A
TYPICAL BOTH SIDES OF	038.1 CAFETERIA COMMONS CORRIDOR	FG2	WD	6'-0"	7'-0"	1 3/4"	DF4	HM		6.0			9/A-601 9/A-601						NTERIOR FRAMES ARE
FRAME	038.2 CAFETERIA COMMONS CORRIDOR	FG2	WD	6'-0"	7'-0"	1 3/4"	DF4	HM		6.0			9/A-601 9/A-601				DOOR AND FRAME SC ALL OPENINGS IN DOO		
	038.3 CAFETERIA COMMONS	FG2	AL	6'-0"	7'-0"	1 3/4"	1/A-601	AL	4 1/2"	2.0			4/A-502 6/A-502				GLAZING TYPES FOR		
	038A CUSTODIAL CAFETERIA COMMONS	F	WD	3'-0"	7'-0"	1 3/4"	DF4	HM	5 3/4"	12.0			9/A-601 9/A-601				OR HEREIN.		B ON THE BOOM AND
CENTER ON PARTITION OR	038B TABLE STORAGE CAFETERIA COMMONS		WD	6'-0"	7'-0"	1 3/4"	DF4	HM	5 3/4"	7.0			9/A-601 9/A-601				HARDWARE SETS AND		
ALIGN TO ONE FACE OF WALL	038C CC STOR CAFETERIA COMMONS		WD	6'-0"	7'-0"	1 3/4"	DF4	HM	5 3/4"	7.0		/A-601	9/A-601 9/A-601				FRAMES SHALL BE DE		
		N	HM	3'-0"	7'-0"	1 3/4"	DF4	HM	5 3/4"	5.0			6/A-502 SIM 6/A-502					V METAL FRAMES SHA PP/FIELD PRIMED PRIC	ALL RECEIVE METAL FIL
	039.2 KITCHEN CAFETERIA COMMONS	OHRD		3'-4"	4'-4" 7' 0"	4.2/4	FM	SIL	3"	15.0			2/A-511 2/A-511						S SHALL BE AIR AND W
HOLLOW METAL FRAME	039.3 KITCHEN CAFETERIA COMMONS 039.4 KITCHEN CAFETERIA COMMONS		WD	3'-8" 16'-0"	7'-0"	1 3/4"	DF4	HM	5 3/4"	10.0			9/A-601 9/A-601 2/A-511 2/A-511				ACCORDANCE WIT	H THE REQUIREMENT	S IDENTIFIED IN THE P
GROUTED SOLID	040 CORRIDOR ART	OHRD FG		3'-0"	7'-4" 7'-0"	1 2///"	FM DF4	STL HM	3"	15.0 11.0			9/A-601 9/A-601						EXPANSION IN THE TRI
	040 CORRIDOR ART	FG E	WD WD	3-0	7-0"	1 3/4" 1 3/4"	DF4 DF4	HM	5 3/4"	12.0			9/A-601 9/A-601 9/A-601 9/A-601				AND INTERSECTIO	NS OF ADJACENT FRA	MES.
	040A ARTSTORAGE ART		WD	3'-0"	7-0"	1 3/4"	DF4 DF4	HM	5 3/4"	9.0			9/A-601 9/A-601 9/A-601 9/A-601			AL	UMINUM FRAMING SYS	TEMS:	
	040D ART REIN 041 TEACHER LOUNGE CORRIDOR	FG	WD	3'-0"	7'-0"	1 3/4"	DF4	HM	5 5/4	11.0			9/A-601 9/A-601			10.	. ALUMINUM STOREFRO	ONT AND INTERIOR AL	
	042 CORRIDOR IDF	F	WD	3'-0"	7'-0"	1 3/4"	DF4	HM	5 3/4"	13.0	-		9/A-601 9/A-601				FOLLOWING CHARACT	FERISTICS UNLESS NO	TED OTHERWISE:
	043 KINDER STORAGE CORRIDOR	F	WD	3'-0"	7'-0"	1 3/4"	DF4	HM	5 3/4"	9.0	-		9/A-601 9/A-601				A. FACE WIDTH: 2" B. FRAME DEPTH: 4-1	//"	
	044A ELECTRICAL	F	HM	3'-0"	7'-0"	1 3/4"	DF4	HM	5 3/4"	16.0			8/A-601 8/A-601	13/A-501 SIM			. ALUMINUM CURTAIN V		HAVE THE FOLLOWING
	044B ELECTRICAL	F				1 3/4"							8/A-601 8/A-601				(U.N.O.):		
		•		00		1 0/1	Bri		0.011	10.0	0,1						A. FACE WIDTH: 2-1/2		
																	B. FRAME DEPTH: 5-1		
																	. ANCHORAGE AT ALUM A. PROVIDE ANCHOR		
																			UIRED DESIGN LOADS
	3'-4"	I.															THAN THREE (3) AN	NCHORS PER JAMB LO	CATION.
									ما	SEE PL	AN FOR SIZE	ما							MAGNETIC STAINLESS
CONCRETE BLOCK	15	\mathcal{I}							1	3'-8"	3'-8'	1							ED BY THE SYSTEM MA
	A-50	2							/		-						BUILDING COMPON		E, AND COMPATIBLE WI
HOLLOW METAL FRAME		/								12	\mathbf{N}						C. PROVIDE REINFOR		TENERS ARE SCREWF
GROUTED SOLID - PAINT	× ×																COMPONENTS LES		
	_ E-1 🗖	I								A-60							D. DO NOT USE EXPO		
MASONRY ANCHOR	5-8						~	\	 										HE FINISH OF THE FRA
		11															E. INTERNALLY REINF	-ORCE MULLIONS AS	REQUIRED TO MEET S

67'-4"													
6'-9 1/2"	6'-9 1/2"	6'-9 1/2"	6'-9 1/2"	6'-9 1/2"	6'-9 1/2"	6'-9 1/2"	ما						
			7 A-501										
E-1	E-1	E-1	E-1	E-1	E-1	E-1	E-1						
E-1	E-1	E-1	E-1 TYP 5 A-502	E-1	E-1	E-1	E-1						
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			5										

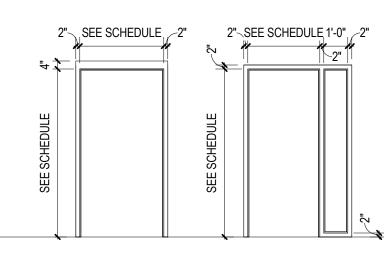
A-101







SEE SCHEDULE



DF4

A-101

IN THE DRAWINGS AND PROJECT MANUAL. F. NO EXPOSED FASTENERS. HOLLOW METAL DOORS AND FRAMES: 13. ALL HOLLOW METAL FRAMES SHALL HAVE THE FOLLOWING CHARACTERISTICS UNO: A. FACE WIDTH: 2" B. FRAME DEPTH: 5-3/4" UNO C. THROAT: 4-7/8" D. RETURN: 7/16" 4. ANCHORAGE AT HOLLOW METAL FRAMES: PER JAMB. STEEL "T" ANCHORS. SPACE BRACKETS. PRIME AND FINISH PAINT.

GLAZING: 16. GLAZING AT INTERIOR DOORS AND FRAMES SHALL BE TYPE I-1 UNO. 7. GLAZING AT FIRE RATED INTERIOR DOORS AND FRAMES SHALL BE TYPE I-2 UNO.

GLAZING TYPES

REFERENCED NOTES

PROVIDE CARD READER AND ELECTRIC LATCH SYSTEM. 2. REFER TO ALUMINUM FRAME TYPES FOR ADDITIONAL INFORMATION. ALUMINUM STOREFRONT AND CURTAIN WALL ELEVATION TAGS ARE SHOWN ON FLOOR PLANS. B. DOOR ASSEMBLY TO MEET FULL RATING.

A. PROVIDE FASTENERS AT 18" ON CENTER AND MINIMALLY THREE (3) ANCHORS B. AT FRAMES INSTALLED PRIOR TO MASONRY INSTALLATION PROVIDE GALVANIZED C. AT FRAMES INSTALLED AFTER MASONRY INSTALLATION OR AT EXISTING MASONRY OPENINGS PROVIDE GALVANIZED STEEL SPACER BRACKETS, ANCHOR

SLEEVES WELDED TO THE INTERIOR OF THE FRAME, AND COUNTERSUNK 3/8" FLATHEAD EXPANSION ANCHORS. COVER HEAD OF FASTENERS WITH METAL FILLER, GRIND SMOOTH, PRIME AND FINISH PAINT. D. AT FRAMES INSTALLED IN STUD PARTITIONS PROVIDE GALVANIZED STEEL Z-TYPE

5. JAMBS OF FRAMES INSTALLED IN EXTERIOR WALLS AND WHERE INDICATED SHALL BE GROUTED SOLID. COVER GROUT HOLES WITH METAL FILLER, GRIND SMOOTH,

TEMPERED GLAZING UNIT

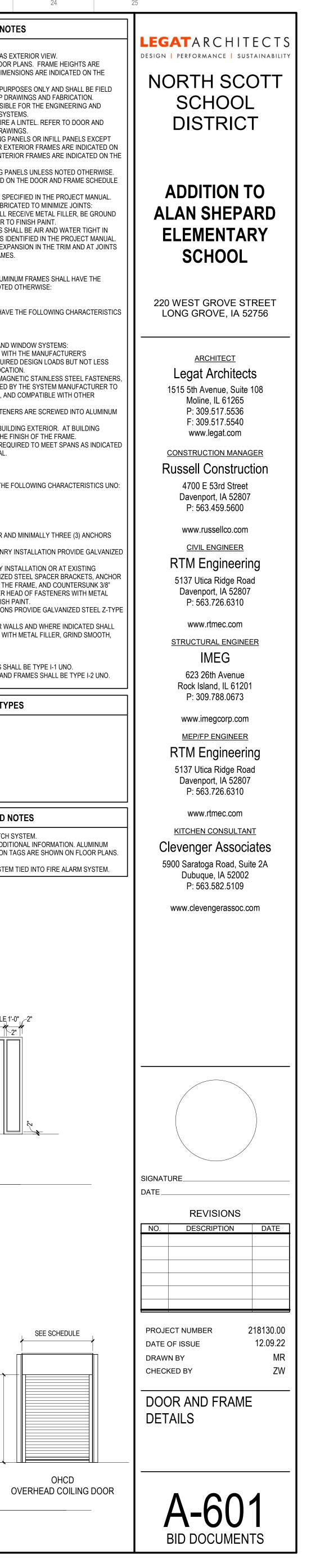
E-1 1" INSULATED CLEAR GLAZING UNIT E-2 1" SPANDREL GLAZING UNIT INTERIOR:

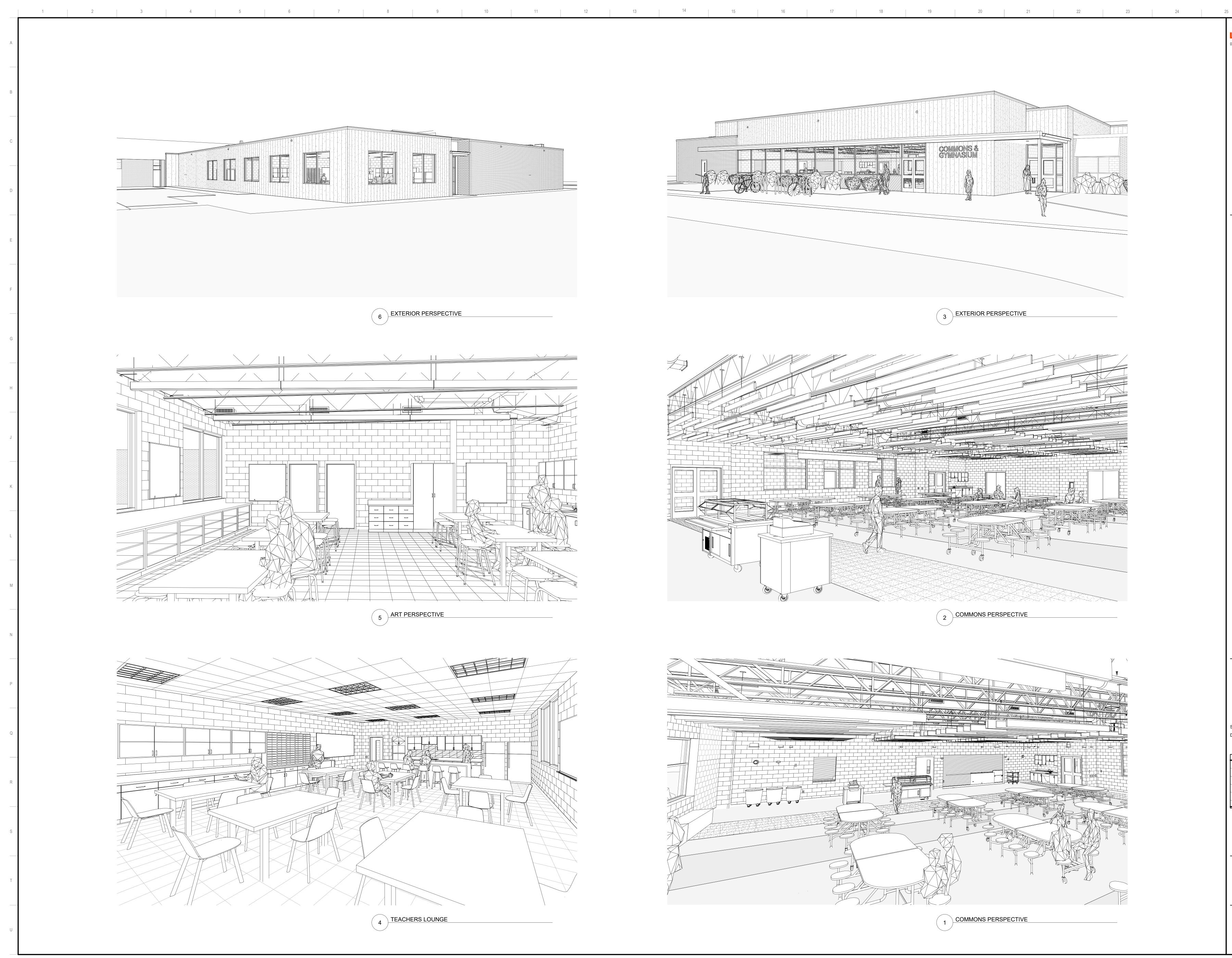
EXTERIOR:

FIRE RATED GLAZING UNIT

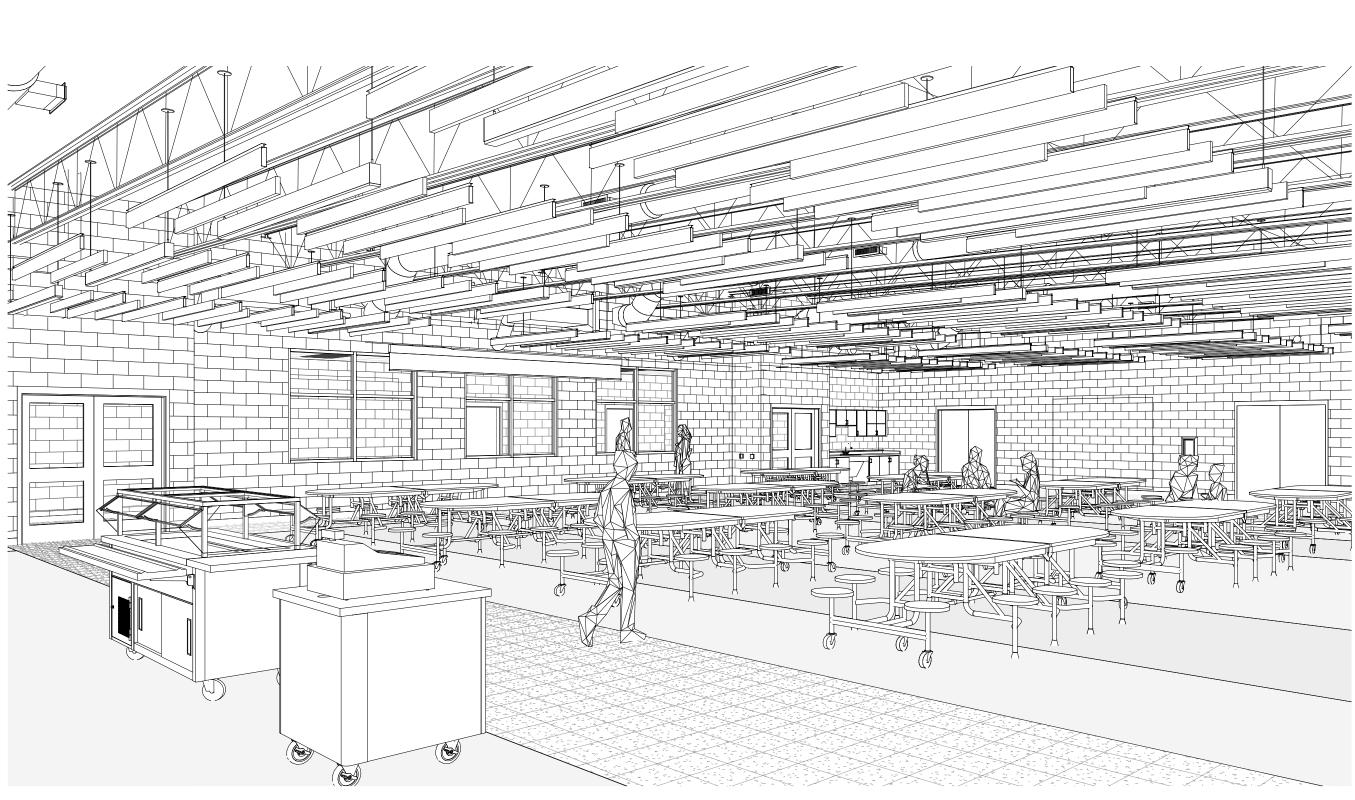
4. PROVIDE MAGNETIC DOOR HOLD OPEN SYSTEM TIED INTO FIRE ALARM SYSTEM.

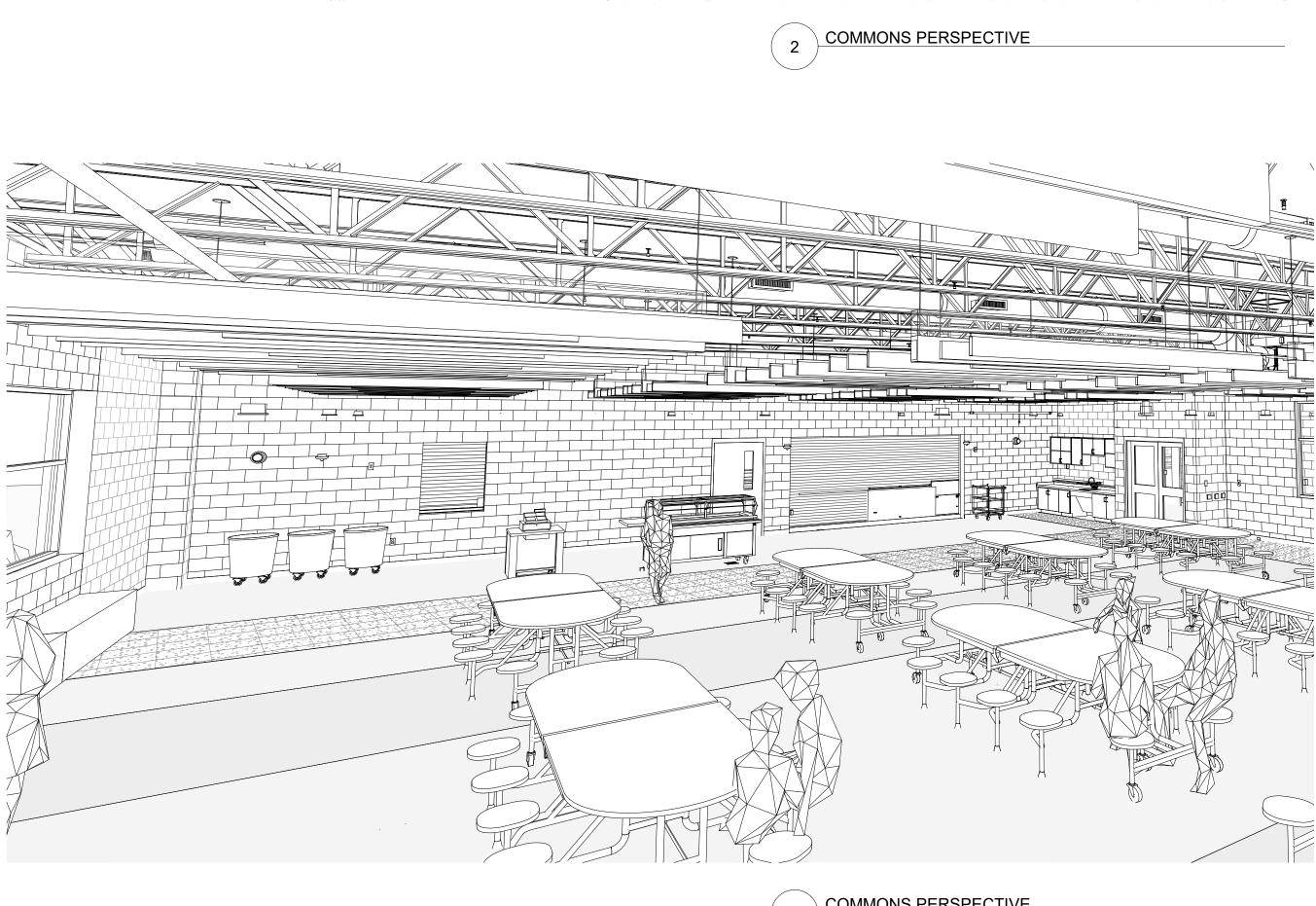
FRAME TYPES 1/4" = 1'-0"











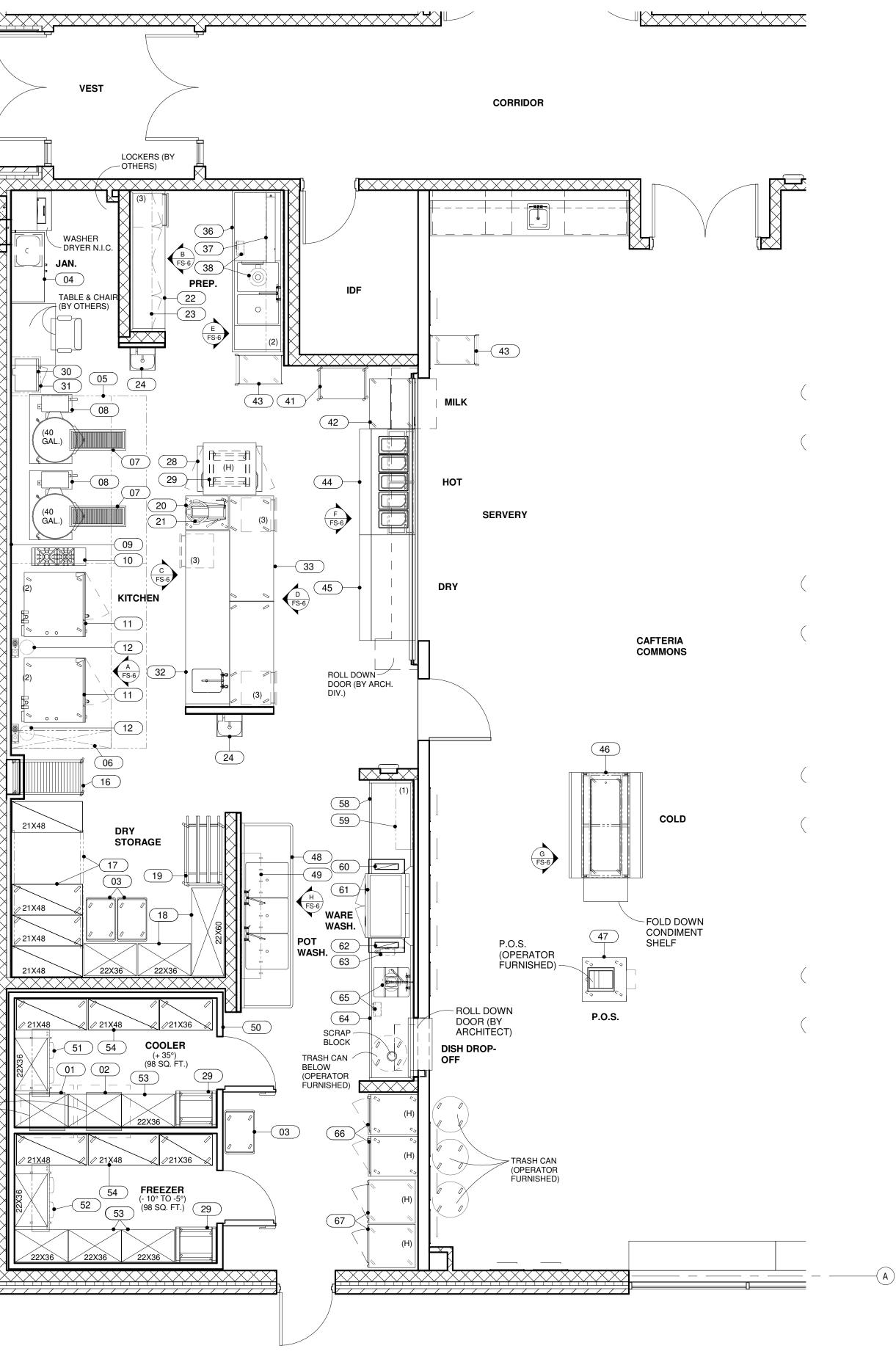


3 EXTERIOR PERSPECTIVE



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1 EQUIPMENT PLAN 1/4" = 1'-0"

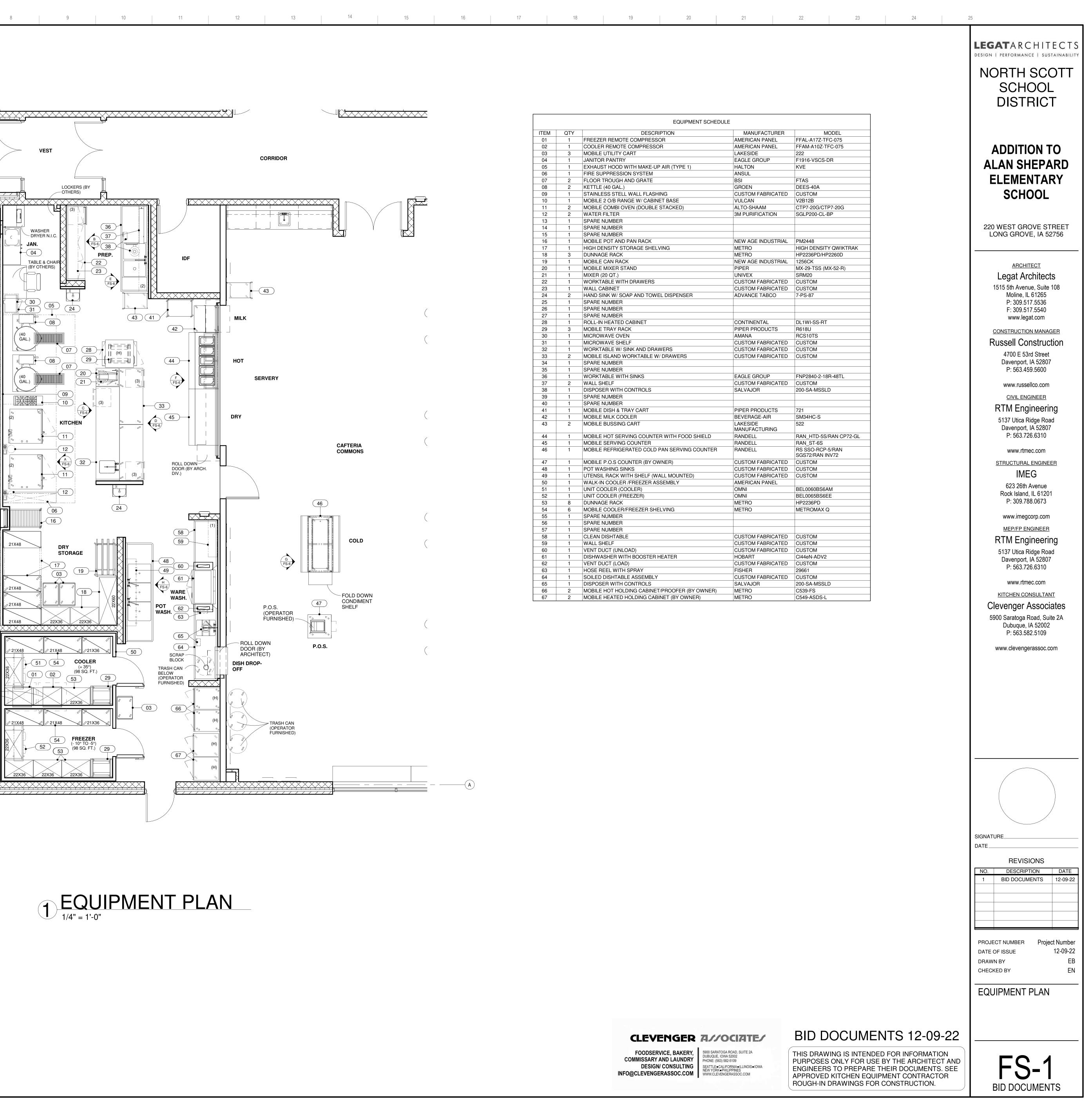


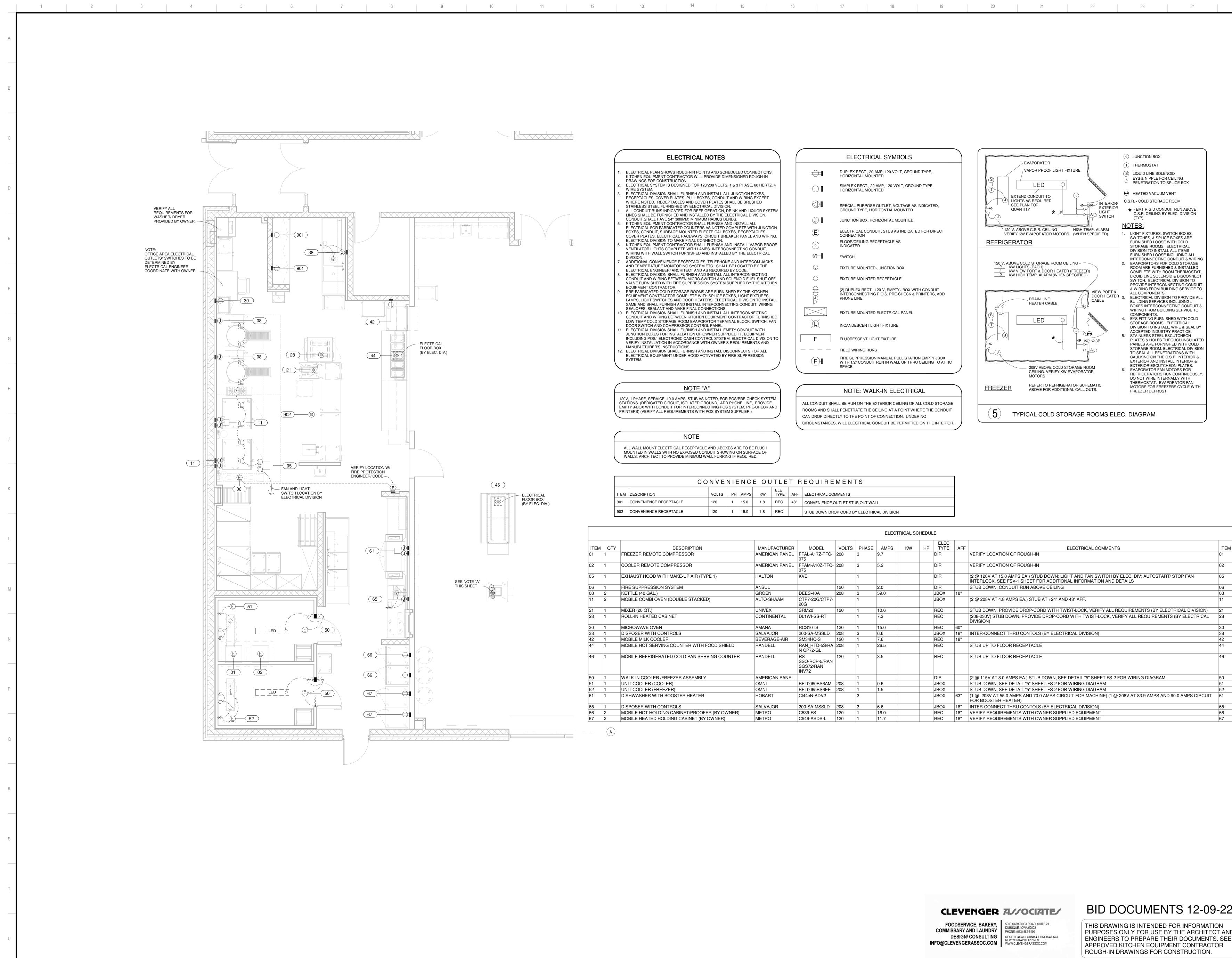
1701	<u> </u>	DEOCDIDTION		NODE
ITEM	QTY			MODEL
01 02	<u>1</u> 1	FREEZER REMOTE COMPRESSOR COOLER REMOTE COMPRESSOR	AMERICAN PANEL	FFAL-A17Z-TFC-075 FFAM-A10Z-TFC-075
02	3	MOBILE UTILITY CART		222
03	1	JANITOR PANTRY	EAGLE GROUP	F1916-VSCS-DR
05	1	EXHAUST HOOD WITH MAKE-UP AIR (TYPE 1)	HALTON	KVE
06	1	FIRE SUPPRESSION SYSTEM	ANSUL	
07	2	FLOOR TROUGH AND GRATE	BSI	FTAS
08	2	KETTLE (40 GAL.)	GROEN	DEES-40A
09	1	STAINLESS STELL WALL FLASHING	CUSTOM FABRICATED	CUSTOM
10	1	MOBILE 2 O/B RANGE W/ CABINET BASE	VULCAN	V2B12B
11	2	MOBILE COMBI OVEN (DOUBLE STACKED)	ALTO-SHAAM	CTP7-20G/CTP7-20G
12	2	WATER FILTER	3M PURIFICATION	SGLP200-CL-BP
13	1	SPARE NUMBER		
14	1	SPARE NUMBER		
15	1	SPARE NUMBER		
16	1	MOBILE POT AND PAN RACK	NEW AGE INDUSTRIAL	PM2448
17	1	HIGH DENSITY STORAGE SHELVING	METRO	HIGH DENSITY QWIKTRAK
18	3			HP2236PD/HP2260D
19	1		NEW AGE INDUSTRIAL	1256CK
20	1	MOBILE MIXER STAND	PIPER UNIVEX	MX-29-TSS (MX-52-R) SRM20
21 22	<u>1</u> 1	MIXER (20 QT.) WORKTABLE WITH DRAWERS	CUSTOM FABRICATED	CUSTOM
22	1	WORKTABLE WITH DRAWENS	CUSTOM FABRICATED	CUSTOM
23	2	HAND SINK W/ SOAP AND TOWEL DISPENSER	ADVANCE TABCO	7-PS-87
25	1	SPARE NUMBER		71007
26	1	SPARE NUMBER		
27	1	SPARE NUMBER		
28	1	ROLL-IN HEATED CABINET	CONTINENTAL	DL1WI-SS-RT
29	3	MOBILE TRAY RACK	PIPER PRODUCTS	R618U
30	1	MICROWAVE OVEN	AMANA	RCS10TS
31	1	MICROWAVE SHELF	CUSTOM FABRICATED	CUSTOM
32	1	WORKTABLE W/ SINK AND DRAWERS	CUSTOM FABRICATED	CUSTOM
33	2	MOBILE ISLAND WORKTABLE W/ DRAWERS	CUSTOM FABRICATED	CUSTOM
34	1	SPARE NUMBER		
35	1	SPARE NUMBER		
36	1	WORKTABLE WITH SINKS	EAGLE GROUP	FNP2840-2-18R-48TL
37	2	WALL SHELF	CUSTOM FABRICATED	
38	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSSLD
39 40	1	SPARE NUMBER SPARE NUMBER		
40	1	MOBILE DISH & TRAY CART	PIPER PRODUCTS	721
42	1	MOBILE DIST & THAT CART	BEVERAGE-AIR	SM34HC-S
43	2	MOBILE BUSSING CART	LAKESIDE	522
10	-		MANUFACTURING	0
44	1	MOBILE HOT SERVING COUNTER WITH FOOD SHIELD	RANDELL	RAN_HTD-5S/RAN CP72-GL
45	1	MOBILE SERVING COUNTER	RANDELL	RAN_ST-6S
46	1	MOBILE REFRIGERATED COLD PAN SERVING COUNTER	RANDELL	RS SSO-RCP-5/RAN
				SGS72/RAN INV72
47	1	MOBILE P.O.S COUNTER (BY OWNER)	CUSTOM FABRICATED	CUSTOM
48	1		CUSTOM FABRICATED	CUSTOM
49	1		CUSTOM FABRICATED	CUSTOM
50 51	<u>1</u> 1	WALK-IN COOLER /FREEZER ASSEMBLY UNIT COOLER (COOLER)	AMERICAN PANEL	BEL0060BS6AM
52	1	UNIT COOLER (COOLER)	OMNI	BEL0060BS6AM
52	8	DUNNAGE RACK	METRO	HP2236PD
54	6	MOBILE COOLER/FREEZER SHELVING	METRO	METROMAX Q
55	1	SPARE NUMBER		
56	1	SPARE NUMBER		
57	1	SPARE NUMBER		
58	1	CLEAN DISHTABLE	CUSTOM FABRICATED	CUSTOM
59	1	WALL SHELF	CUSTOM FABRICATED	CUSTOM
60	1	VENT DUCT (UNLOAD)	CUSTOM FABRICATED	CUSTOM
61	1	DISHWASHER WITH BOOSTER HEATER	HOBART	Cl44eN-ADV2
62	1	VENT DUCT (LOAD)	CUSTOM FABRICATED	CUSTOM
63	1	HOSE REEL WITH SPRAY	FISHER	29661
64	1	SOILED DISHTABLE ASSEMBLY	CUSTOM FABRICATED	CUSTOM
65	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSSLD
66	2	MOBILE HOT HOLDING CABINET/PROOFER (BY OWNER)	METRO	C539-FS
67	2	MOBILE HEATED HOLDING CABINET (BY OWNER)	METRO	C549-ASDS-L

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CLEVENGER A//OCIATE/

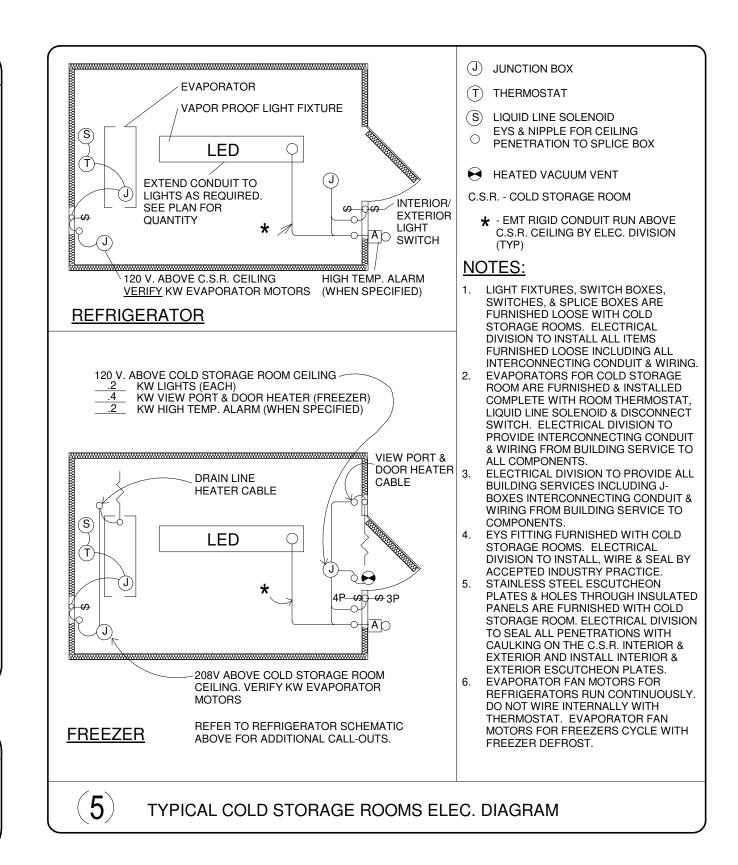
BID DOCUMENTS 12-09-22





	ELECTRICAL SYMBOLS					
\ominus	DUPLEX RECT., 20-AMP, 120-VOLT, GROUND TYPE, HORIZONTAL MOUNTED					
\bigcirc	SIMPLEX RECT., 20-AMP, 120-VOLT, GROUND TYPE, HORIZONTAL MOUNTED					
	SPECIAL PURPOSE OUTLET, VOLTAGE AS INDICATED, GROUND TYPE, HORIZONTAL MOUNTED					
J	JUNCTION BOX, HORIZONTAL MOUNTED					
E	ELECTRICAL CONDUIT, STUB AS INDICATED FOR DIRECT CONNECTION					
\bigcirc	FLOOR/CEILING RECEPTACLE AS INDICATED					
ഗ 	SWITCH					
J	FIXTURE MOUNTED JUNCTION BOX					
\ominus	FIXTURE MOUNTED RECEPTACLE					
	(2) DUPLEX RECT., 120-V, EMPTY JBOX WITH CONDUIT INTERCONNECTING P.O.S. PRE-CHECK & PRINTERS, ADD PHONE LINE					
	FIXTURE MOUNTED ELECTRICAL PANEL					
Ì	INCANDESCENT LIGHT FIXTURE					
F	FLUORESCENT LIGHT FIXTURE					
	FIELD WIRING RUNS					
F	FIRE SUPPRESSION MANUAL PULL STATION EMPTY JBOX WITH 1/2" CONDUIT RUN IN WALL UP THRU CEILING TO ATTIC SPACE					
	NOTE: WALK-IN ELECTRICAL					

ALL CONDUIT SHALL BE RUN ON THE EXTERIOR CEILING OF ALL COLD STORAGE ROOMS AND SHALL PENETRATE THE CEILING AT A POINT WHERE THE CONDUIT CAN DROP DIRECTLY TO THE POINT OF CONNECTION. UNDER NO CIRCUMSTANCES, WILL ELECTRICAL CONDUIT BE PERMITTED ON THE INTERIOR.



R	EQUIREMENTS								
=	ELECTRICAL COMMENTS								
	CONVENIENCE OUTLET STUB OUT WALL								
	STUB DOWN DROP CORD BY ELECTRICAL DIVISION								

ELECTRICAL SCHEDULE

MODEL	VOLTS	PHASE	AMPS	KW	HP TYPE	AFF	ELECTRICAL COMMENTS	11
FFAL-A17Z-TFC- 075	208	3	9.7		DIR		VERIFY LOCATION OF ROUGH-IN	01
FFAM-A10Z-TFC- 075	208	3	5.2		DIR		VERIFY LOCATION OF ROUGH-IN	02
KVE		1			DIR		(2 @ 120V AT 15.0 AMPS EA.) STUB DOWN; LIGHT AND FAN SWITCH BY ELEC. DIV; AUTOSTART/ STOP FAN INTERLOCK. SEE FSV-1 SHEET FOR ADDITIONAL INFORMATION AND DETAILS	05
	120	1	2.0		DIR		STUB DOWN, CONDUIT RUN ABOVE CEILING	06
DEES-40A	208	3	59.0		JBOX	18"		08
CTP7-20G/CTP7- 20G		1			JBOX		(2 @ 208V AT 4.8 AMPS EA.) STUB AT +24" AND 48" AFF.	11
SRM20	120	1	10.6		REC		STUB DOWN, PROVIDE DROP-CORD WITH TWIST-LOCK, VERIFY ALL REQUIREMENTS (BY ELECTRICAL DIVISION)	21
DL1WI-SS-RT		1	7.3		REC		(208-230V) STUB DOWN, PROVIDE DROP-CORD WITH TWIST-LOCK, VERIFY ALL REQUIREMENTS (BY ELECTRICAL DIVISION)	28
RCS10TS	120	1	15.0		REC	60"		30
200-SA-MSSLD	208	3	6.6		JBOX	18"	INTER-CONNECT THRU CONTOLS (BY ELECTRICAL DIVISION)	38
SM34HC-S	120	1	7.6		REC	18"		42
RAN_HTD-5S/RA N CP72-GL	208	1	26.5		REC		STUB UP TO FLOOR RECEPTACLE	44
RS SSO-RCP-5/RAN SGS72/RAN INV72	120	1	3.5		REC		STUB UP TO FLOOR RECEPTACLE	46
		1			DIR		(2 @ 115V AT 8.0 AMPS EA.) STUB DOWN, SEE DETAIL "5" SHEET FS-2 FOR WIRING DIAGRAM	50
BEL0060BS6AM	208	1	0.6		JBOX		STUB DOWN, SEE DETAIL "5" SHEET FS-2 FOR WIRING DIAGRAM	51
BEL0065BS6EE	208	1	1.5		JBOX		STUB DOWN, SEE DETAIL "5" SHEET FS-2 FOR WIRING DIAGRAM	52
Cl44eN-ADV2		3			JBOX	63"	(1 @ 208V AT 55.0 AMPS AND 70.0 AMPS CIRCUIT FOR MACHINE) (1 @ 208V AT 83.9 AMPS AND 90.0 AMPS CIRCUIT FOR BOOSTER HEATER)	61
200-SA-MSSLD	208	3	6.6		JBOX	18"	INTER-CONNECT THRU CONTOLS (BY ELECTRICAL DIVISION)	65
C539-FS	120	1	16.0		REC	18"	VERIFY REQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT	66
C549-ASDS-L	120	1	11.7		REC	18"	VERIFY REQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT	67

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 5900 SARATOGA ROAD, SUITE 2A

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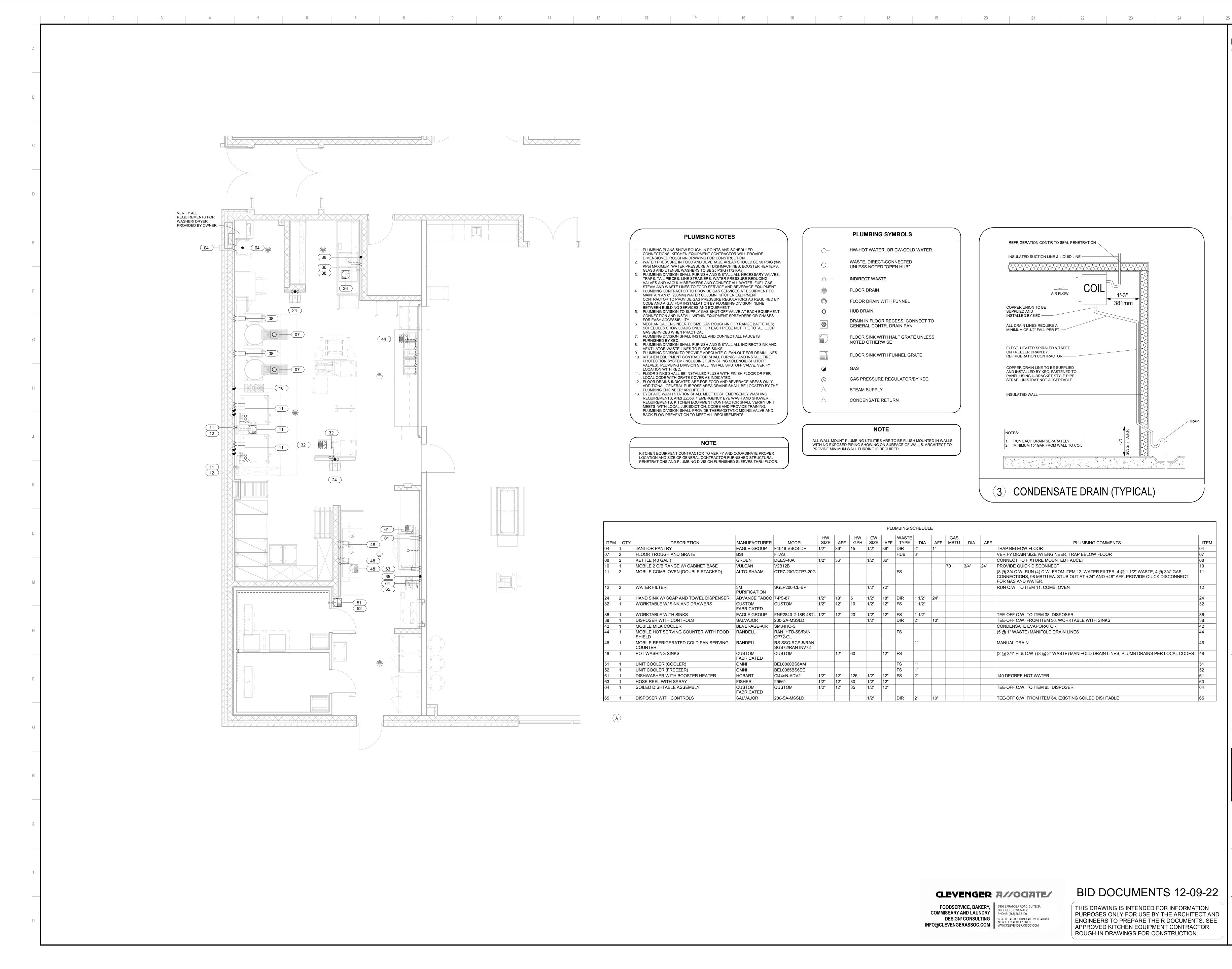
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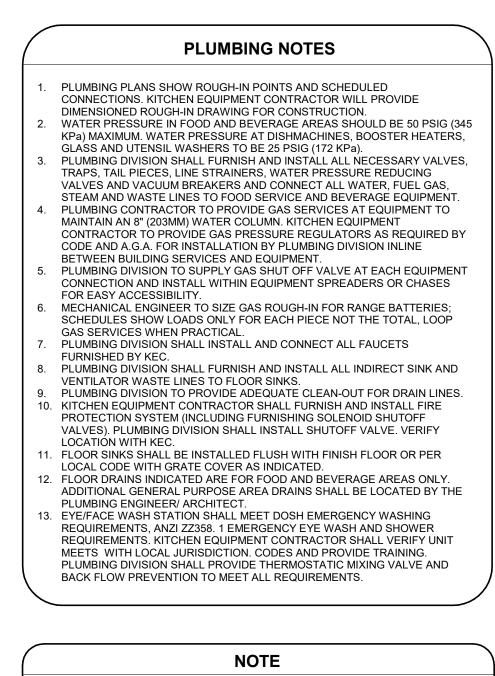
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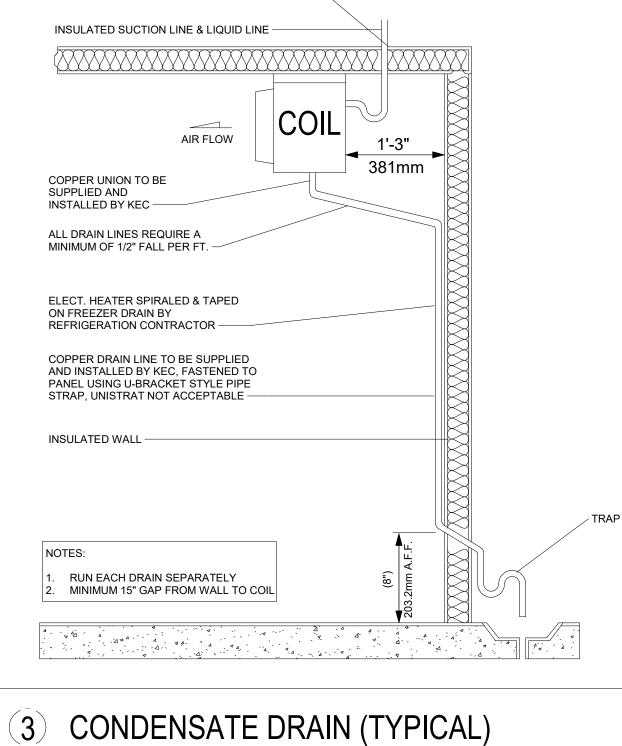


KITCHEN EQUIPMENT CONTRACTOR TO VERIFY AND COORDINATE PROPER LOCATION AND SIZE OF GENERAL CONTRACTOR FURNISHED STRUCTURAL PENETRATIONS AND PLUMBING DIVISION FURNISHED SLEEVES THRU FLOOR.

		PLUMBING SCHEDULE																
ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL	HW SIZE	AFF	HW GPH	CW SIZE		WASTI TYPE		IA	AFF	GAS MBTU	DIA	A AF		ITE
04	1	JANITOR PANTRY	EAGLE GROUP	F1916-VSCS-DR	1/2"	36"	15	1/2"	36"	DIR	2"	1	"				TRAP BELEOW FLOOR	04
07	2	FLOOR TROUGH AND GRATE	BSI	FTAS						HUB	3"							07
08	2	KETTLE (40 GAL.)	GROEN	DEES-40A	1/2"	36"		1/2"	36"								CONNECT TO FIXTURE MOUNTED FAUCET	08
10	1	MOBILE 2 O/B RANGE W/ CABINET BASE	VULCAN	V2B12B									7	70	3/4"	24"	PROVIDE QUICK DISCONNECT	10
11	2	MOBILE COMBI OVEN (DOUBLE STACKED)	ALTO-SHAAM	CTP7-20G/CTP7-20G						FS							(8 @ 3/4 C.W. RUN (4) C.W. FROM ITEM 12, WATER FILTER, 4 @ 1 1/2" WASTE, 4 @ 3/4" GAS CONNECTIONS, 98 MBTU EA. STUB OUT AT +24" AND +48" AFF. PROVIDE QUICK DISCONNECT FOR GAS AND WATER.	11
12	2	WATER FILTER	3M PURIFICATION	SGLP200-CL-BP				1/2"	72"								RUN C.W. TO ITEM 11, COMBI OVEN	12
24	2	HAND SINK W/ SOAP AND TOWEL DISPENSER	ADVANCE TABCO	7-PS-87	1/2"	18"	5	1/2"	18"	DIR	1 1/2	2" 2	4"					24
32	1	WORKTABLE W/ SINK AND DRAWERS	CUSTOM FABRICATED	CUSTOM	1/2"	12"	10	1/2"	12"	FS	1 1/2	2"						32
36	1	WORKTABLE WITH SINKS	EAGLE GROUP	FNP2840-2-18R-48TL	1/2"	12"	20	1/2"	12"	FS	1 1/2	2"						36
38	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSSLD				1/2"		DIR	2"	1	0"				TEE-OFF C.W. FROM ITEM 36, WORKTABLE WITH SINKS	38
42	1	MOBILE MILK COOLER	BEVERAGE-AIR	SM34HC-S													CONDENSATE EVAPORATOR	42
44	1	MOBILE HOT SERVING COUNTER WITH FOOD SHIELD	RANDELL	RAN_HTD-5S/RAN CP72-GL						FS							(5 @ 1" WASTE) MANIFOLD DRAIN LINES	44
46	1	MOBILE REFRIGERATED COLD PAN SERVING COUNTER	RANDELL	RS SSO-RCP-5/RAN SGS72/RAN INV72							1"						MANUAL DRAIN	46
48	1	POT WASHING SINKS	CUSTOM FABRICATED	CUSTOM		12"	60		12"	FS							(2 @ 3/4" H. & C.W.) (3 @ 2" WASTE) MANIFOLD DRAIN LINES, PLUMB DRAINS PER LOCAL CODES	48
51	1	UNIT COOLER (COOLER)	OMNI	BEL0060BS6AM						FS	1"							51
52	1	UNIT COOLER (FREEZER)	OMNI	BEL0065BS6EE						FS	1"							52
61	1	DISHWASHER WITH BOOSTER HEATER	HOBART	Cl44eN-ADV2	1/2"	12"	126	1/2"	12"	FS	2"						140 DEGREE HOT WATER	61
63	1	HOSE REEL WITH SPRAY	FISHER	29661	1/2"	12"	30	1/2"	12"									63
64	1	SOILED DISHTABLE ASSEMBLY	CUSTOM FABRICATED	CUSTOM	1/2"	12"	35	1/2"	12"								TEE-OFF C.W. TO ITEM 65, DISPOSER	64
65	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSSLD				1/2"		DIR	2"	1	0"				TEE-OFF C.W. FROM ITEM 64, EXISTING SOILED DISHTABLE	65

	PLUMBING SYMBOLS
<u> </u>	HW-HOT WATER, OR CW-COLD WATER
0-	WASTE, DIRECT-CONNECTED UNLESS NOTED "OPEN HUB"
0	INDIRECT WASTE
	FLOOR DRAIN
\bigcirc	FLOOR DRAIN WITH FUNNEL
O	HUB DRAIN
0	DRAIN IN FLOOR RECESS, CONNECT TO GENERAL CONTR. DRAIN PAN
	FLOOR SINK WITH HALF GRATE UNLESS NOTED OTHERWISE
	FLOOR SINK WITH FUNNEL GRATE
	GAS
\otimes	GAS PRESSURE REGULATOR/BY KEC
\bigtriangleup	STEAM SUPPLY
\bigtriangleup	CONDENSATE RETURN

SUPPLIED AND INSULATED WALL -NOTE NOTES: ALL WALL MOUNT PLUMBING UTILITIES ARE TO BE FLUSH MOUNTED IN WALLS WITH NO EXPOSED PIPING SHOWING ON SURFACE OF WALLS. ARCHITECT TO PROVIDE MINIMUM WALL FURRING IF REQUIRED.



REFRIGERATION CONT'R TO SEAL PENETRATION

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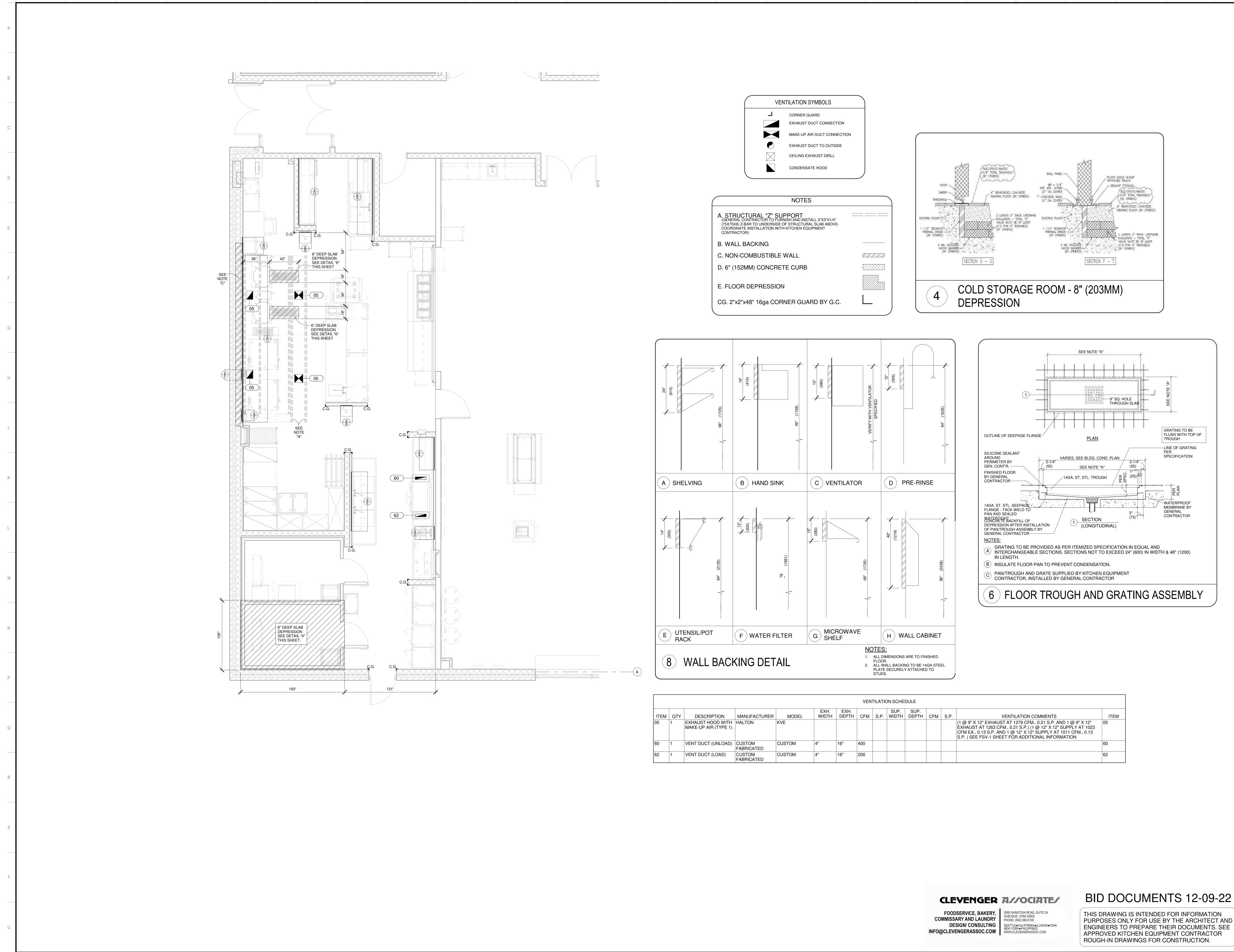
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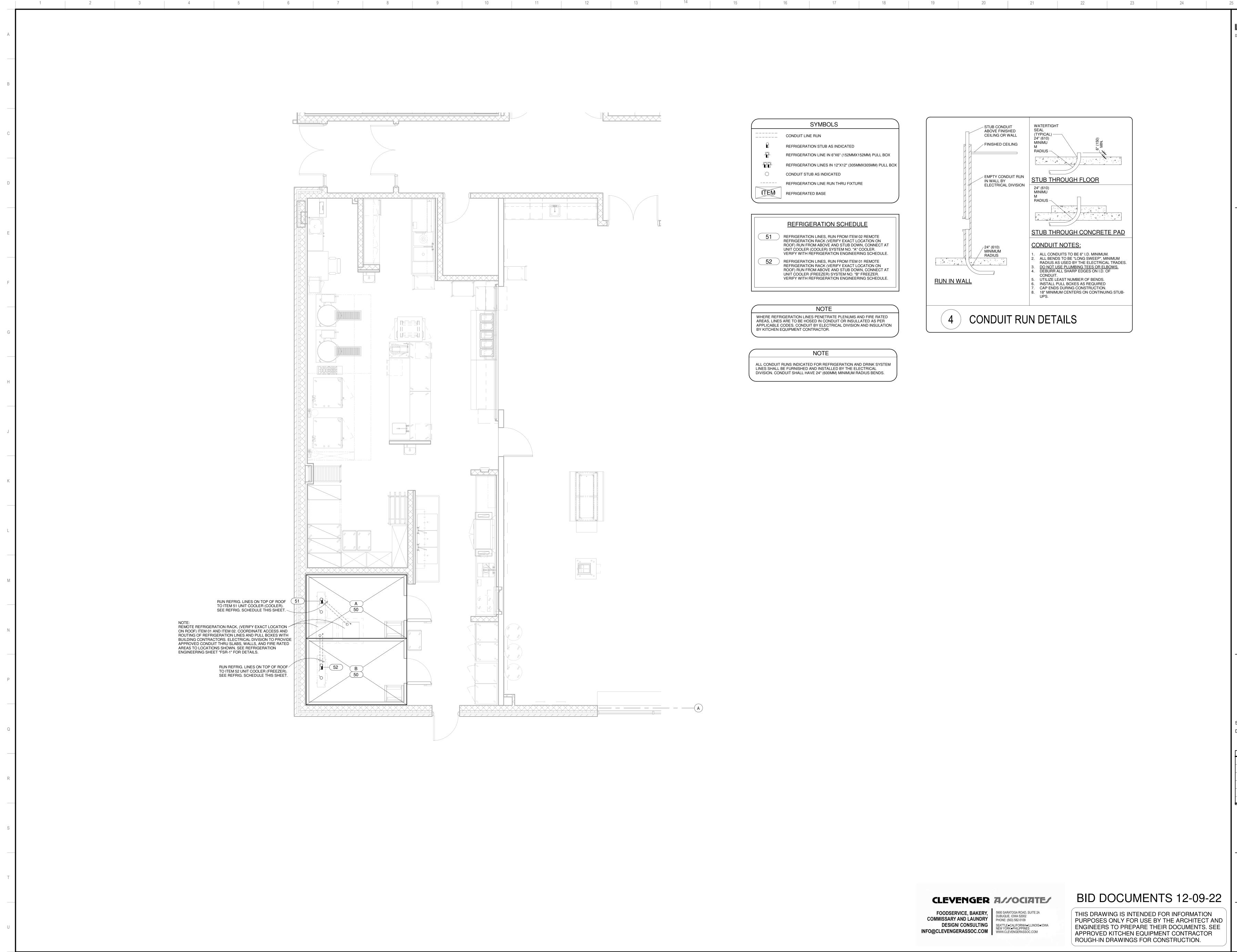




	VENTILATION SCHEDULE													
ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL	EXH. WIDTH	EXH. DEPTH	CFM	S.P.	SUP. WIDTH	SUP. DEPTH	CFM	S.P.	VENTILATION COMMENTS	ITEM
05		EXHAUST HOOD WITH MAKE-UP AIR (TYPE 1)	HALTON	KVE									(1 @ 9" X 12" EXHAUST AT 1279 CFM., 0.21 S.P. AND 1 @ 9" X 12" EXHAUST AT 1263 CFM., 0.21 S.P.) (1 @ 12" X 12" SUPPLY AT 1023 CFM EA., 0.13 S.P. AND 1 @ 12" X 12" SUPPLY AT 1011 CFM., 0.13 S.P.) SEE FSV-1 SHEET FOR ADDITIONAL INFORMATION	05
60	1		CUSTOM FABRICATED	CUSTOM	4"	16"	400							60
62	1		CUSTOM FABRICATED	CUSTOM	4"	16"	200							62

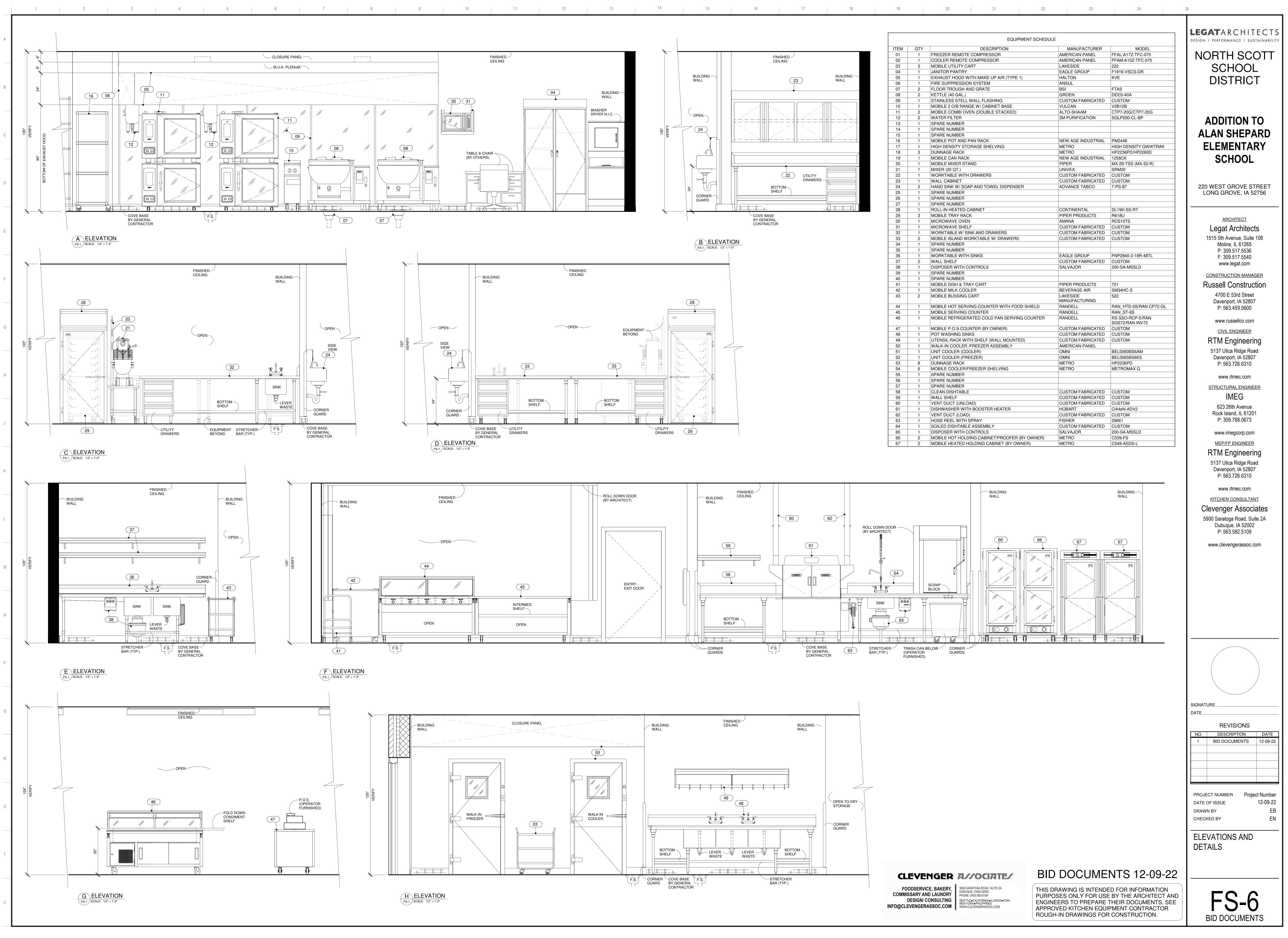
APPROVED KITCHEN EQUIPMENT CONTRACTOR



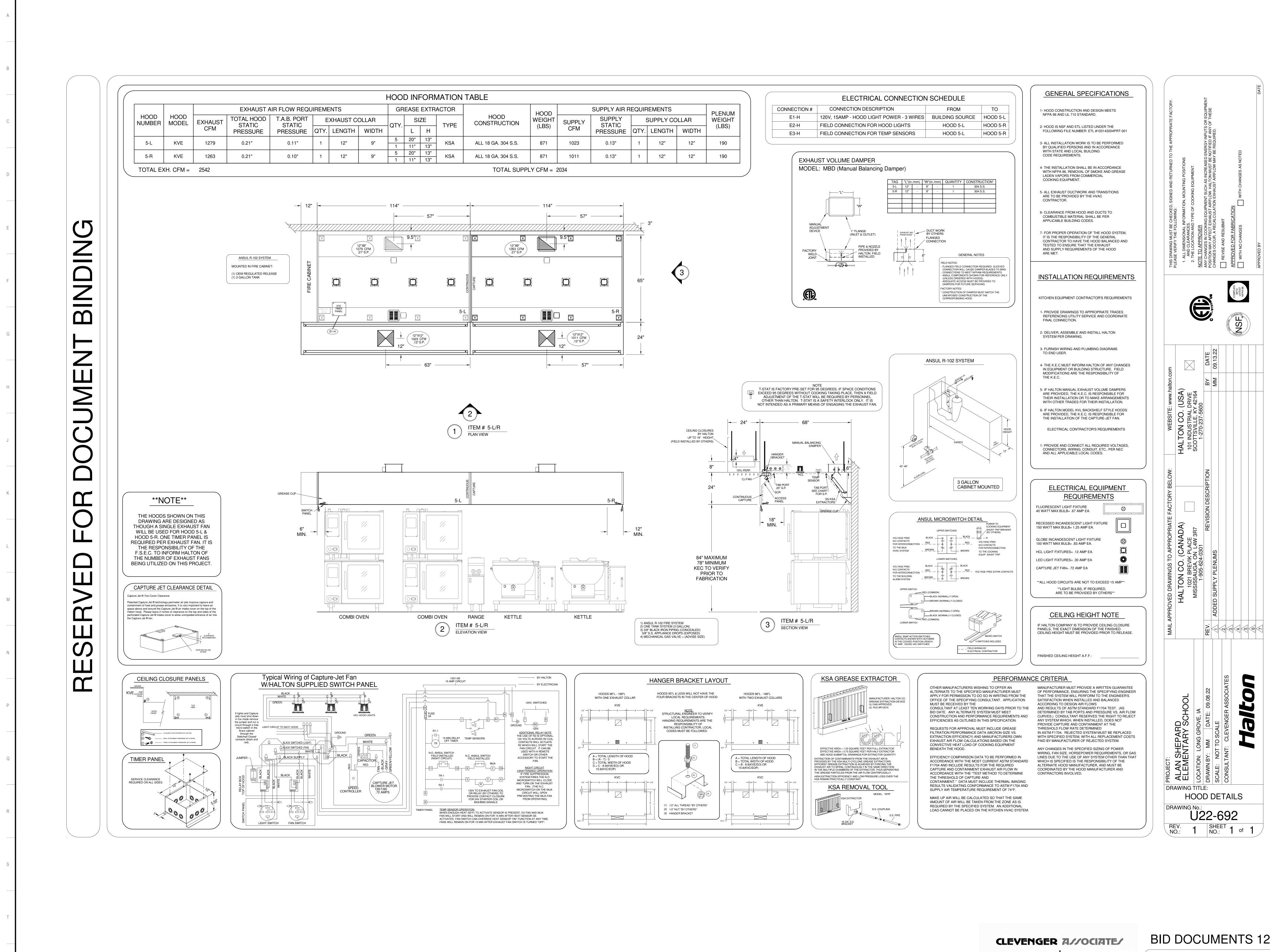


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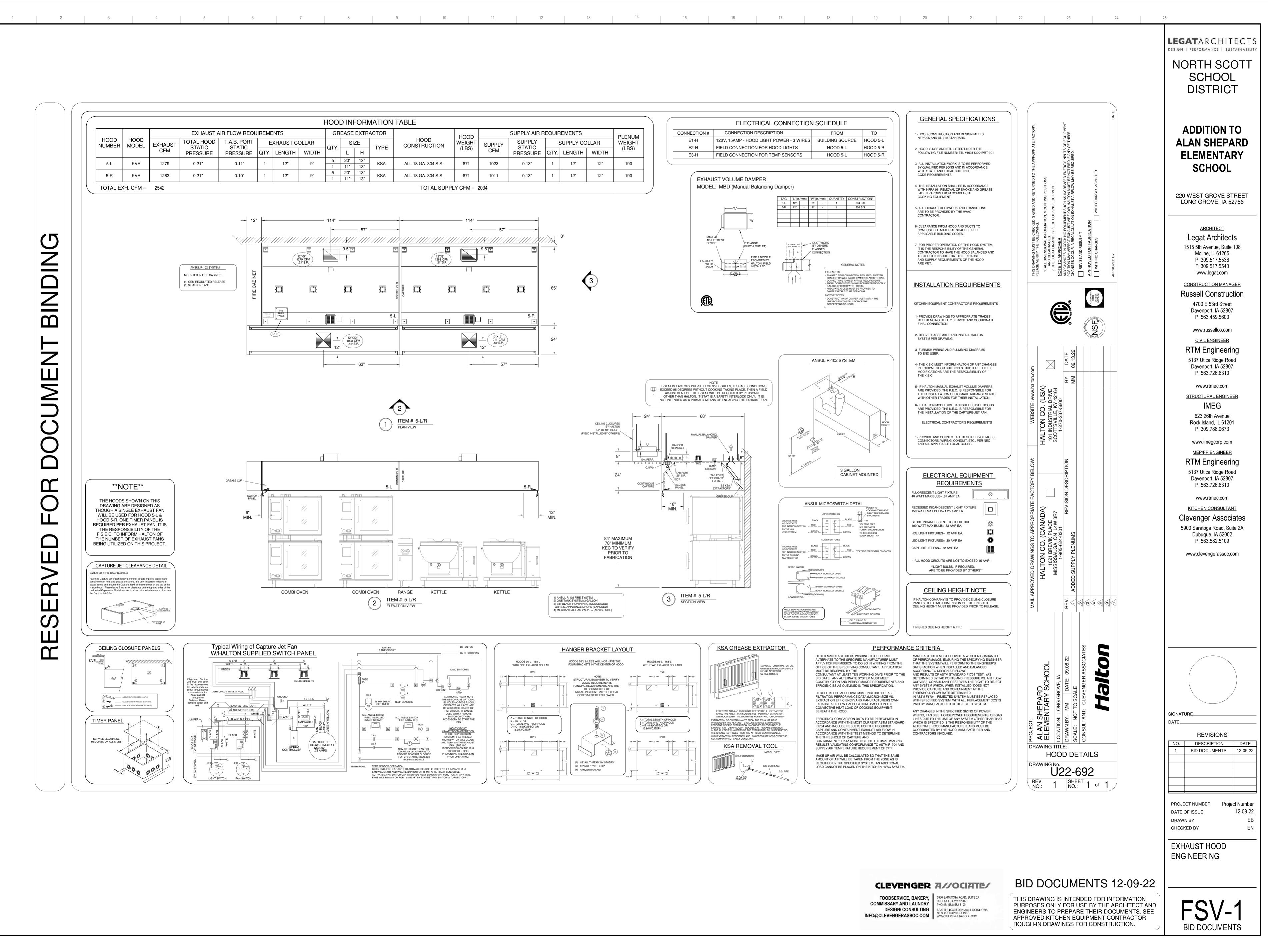
		EQUIPMENT SCHEDUL	LE	
ITEM	QTY	DESCRIPTION	MANUFACTURER	MODEL
01	1	FREEZER REMOTE COMPRESSOR	AMERICAN PANEL	FFAL-A17Z-TFC-075
02	1	COOLER REMOTE COMPRESSOR	AMERICAN PANEL	FFAM-A10Z-TFC-075
03	3	MOBILE UTILITY CART	LAKESIDE	222
04	1	JANITOR PANTRY	EAGLE GROUP	F1916-VSCS-DR
05	1	EXHAUST HOOD WITH MAKE-UP AIR (TYPE 1) FIRE SUPPRESSION SYSTEM	HALTON	KVE
06 07	1	FLOOR TROUGH AND GRATE	ANSUL BSI	FTAS
07	2	KETTLE (40 GAL.)	GROEN	DEES-40A
09	1	STAINLESS STELL WALL FLASHING	CUSTOM FABRICATED	CUSTOM
10	1	MOBILE 2 O/B RANGE W/ CABINET BASE	VULCAN	V2B12B
11	2	MOBILE COMBI OVEN (DOUBLE STACKED)	ALTO-SHAAM	CTP7-20G/CTP7-20G
12	2	WATER FILTER	3M PURIFICATION	SGLP200-CL-BP
13	1			
14 15	1	SPARE NUMBER SPARE NUMBER		
16	1	MOBILE POT AND PAN RACK	NEW AGE INDUSTRIAL	PM2448
17	1	HIGH DENSITY STORAGE SHELVING	METRO	HIGH DENSITY QWIKTRAK
18	3	DUNNAGE RACK	METRO	HP2236PD/HP2260D
19	1	MOBILE CAN RACK	NEW AGE INDUSTRIAL	1256CK
20	1	MOBILE MIXER STAND	PIPER	MX-29-TSS (MX-52-R)
21	1	MIXER (20 QT.)		SRM20
22	1	WORKTABLE WITH DRAWERS	CUSTOM FABRICATED	CUSTOM
23 24	1 2	WALL CABINET HAND SINK W/ SOAP AND TOWEL DISPENSER	CUSTOM FABRICATED ADVANCE TABCO	CUSTOM 7-PS-87
25	1	SPARE NUMBER		
26	1	SPARE NUMBER		
27	1	SPARE NUMBER		
28	1	ROLL-IN HEATED CABINET	CONTINENTAL	DL1WI-SS-RT
29	3	MOBILE TRAY RACK	PIPER PRODUCTS	R618U
30	1			RCS10TS
31 32	1	MICROWAVE SHELF WORKTABLE W/ SINK AND DRAWERS	CUSTOM FABRICATED	CUSTOM CUSTOM
33	2	MOBILE ISLAND WORKTABLE W/ DRAWERS	CUSTOM FABRICATED	CUSTOM
34	1	SPARE NUMBER		
35	1	SPARE NUMBER		
36	1	WORKTABLE WITH SINKS	EAGLE GROUP	FNP2840-2-18R-48TL
37	2	WALL SHELF	CUSTOM FABRICATED	CUSTOM
38	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSSLD
39 40	1	SPARE NUMBER SPARE NUMBER		
41	1	MOBILE DISH & TRAY CART	PIPER PRODUCTS	721
42	1	MOBILE MILK COOLER	BEVERAGE-AIR	SM34HC-S
43	2	MOBILE BUSSING CART	LAKESIDE	522
			MANUFACTURING	
44 45	1	MOBILE HOT SERVING COUNTER WITH FOOD SHIELD MOBILE SERVING COUNTER	RANDELL RANDELL	RAN_HTD-5S/RAN CP72-GL RAN ST-6S
45 46	1	MOBILE SERVING COUNTER MOBILE REFRIGERATED COLD PAN SERVING COUNTER	RANDELL	RS SSO-RCP-5/RAN
40				SGS72/RAN INV72
47	1	MOBILE P.O.S COUNTER (BY OWNER)	CUSTOM FABRICATED	CUSTOM
48	1	POT WASHING SINKS	CUSTOM FABRICATED	CUSTOM
49	1		CUSTOM FABRICATED	CUSTOM
50 51	1	WALK-IN COOLER /FREEZER ASSEMBLY UNIT COOLER (COOLER)	AMERICAN PANEL	BEL0060BS6AM
52	1	UNIT COOLER (COOLER)	OMNI	BEL0065BS6EE
53	8	DUNNAGE RACK	METRO	HP2236PD
54	6	MOBILE COOLER/FREEZER SHELVING	METRO	METROMAX Q
55	1	SPARE NUMBER		
56	1	SPARE NUMBER		
57	1			
58 59	1	CLEAN DISHTABLE WALL SHELF	CUSTOM FABRICATED	CUSTOM CUSTOM
59 60	1	VENT DUCT (UNLOAD)	CUSTOM FABRICATED	CUSTOM
61	1	DISHWASHER WITH BOOSTER HEATER	HOBART	Cl44eN-ADV2
62	1	VENT DUCT (LOAD)	CUSTOM FABRICATED	CUSTOM
63	1	HOSE REEL WITH SPRAY	FISHER	29661
64	1	SOILED DISHTABLE ASSEMBLY	CUSTOM FABRICATED	CUSTOM
65	1	DISPOSER WITH CONTROLS	SALVAJOR	200-SA-MSSLD
66	2		METRO	C539-FS
67	2	MOBILE HEATED HOLDING CABINET (BY OWNER)	METRO	C549-ASDS-L

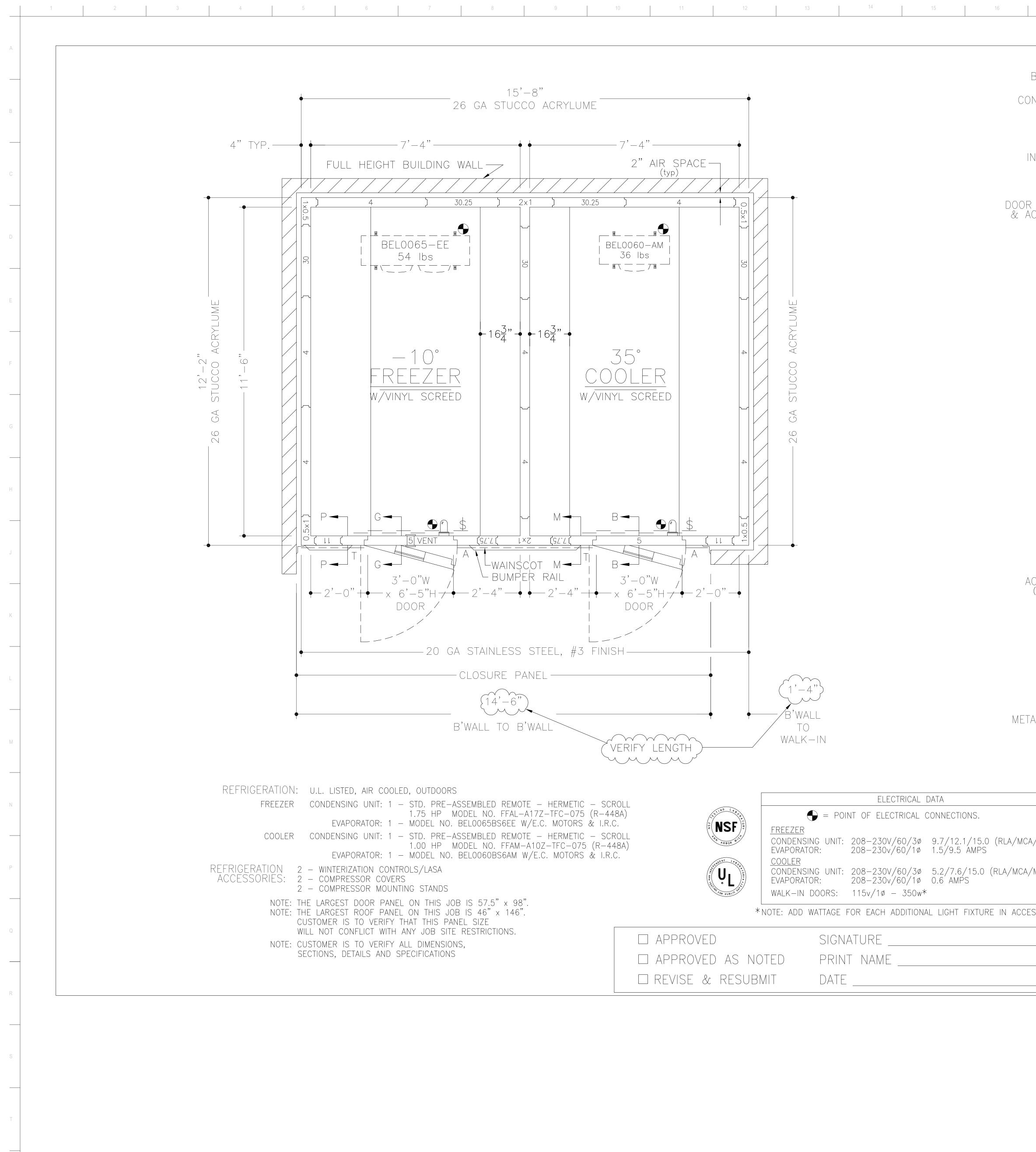


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DESIGN/ CONSULTING INFO@CLEVENGERASSOC.COM

FOODSERVICE, BAKERY, COMMISSARY AND LAUNDRY





BOX HFIGHT:	~SPECIFICATIONS~ freezer – 8'–6" overall (8'–2" interior)
CONSTRUCTION:	COOLER – 8'–6" OVERALL (8'–2" INTERIOR)
INSULATION:	NSF LISTED, STANDARD NO. 7 4" URETHANE, FINISHED PANEL
INSTALLATION:	UL CLASSIFIED FLAME SPREAD 20 CORE SMOKE DEVELOPED 250
	FREEZER – FLOORLESS (VINYL SCREED PROVIDED) INSULATED SLAB (SLAB BY OTHERS)
(see details)	COOLER – FLOORLESS (VINYL SCREED PROVIDED) SMOOTH POLISHED DOOR HARDWARE
& ACCESSORIES: (each door)	POWER TO BE STUBBED OUT CEILING PANEL DRY CONTACT LEADS TO BE STUBBED OUT CEILING PANEL IN A SEPARATE STUB OUT KASON #10944–4 DEADBOLT LOCK 1/8" STAINLESS STEEL THRESHOLD COVER PLATE FRAME HEATER WIRE
	HYDRAULIC DOOR CLOSER IC+ WALK-IN DOOR CONTROLLER AND ALARM SYSTEM INCLUDING: INTEGRATED LIGHT SWITCH WITH AUTOMATIC LIGHT OFF AND 3-WAY & 4-WAY CAPABILITY
	TEMPERATURE MONITOR AND LOGGER WITH HIGH TEMP. AND LOW TEMP. VISUAL AND AUDIO ALARM F OR C TEMPERATURE SELECTION INTEGRATED DRY CONTACT FOR ALARM SIGNALING & POWER FAILURE (1A @ 24VAC, 1A @ 30VDC)
	DOOR AND WINDOW HEATER CONTROL (WHEN SO EQUIPPED) HACCP PREVIEW VIA ONBOARD LCD SCREEN HACCP DOWNLOAD VIA USB
	WIFI CONNECTIVITY (INTERNET ENABLED WIFI NETWORK NEEDED) BATTERY BACKUP TEMPERATURE ALARM NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES
	POWER FAILURE NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES (FOR THIS FEATURE TO WORK THE LOCAL WIFI NETWORK MUST BE POWER PROTECTED AND WORKING AT THE TIME OF POWER FAILURE EVENT) AUTOMATIC AND ON DEMAND TRANSMISSION OF HACCP DATA VIA EMAIL
	ADAPTIVE SETTINGS MOMENTARY BACK—TO—BACK LIGHT SWITCH W/PILOT 25'AIR TEMPERATURE PROBE
	DOOR SWITCH TO ENABLE DOOR AJAR ALARM, DOOR AJAR NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES, AND AUTOMATIC LIGHTS ON WHEN DOOR OPENS PANIC ALARM WITH ILLUMINATED PANIC BUTTON, ALARM BUZZER WITH LED,
	& NOTIFICATION VIA EMAIL &/OR EMAIL TO SMS TEXT MESSAGES 2"FLUSH MOUNT DIAL THERMOMETER W/25"PROBE KASON SCREW—IN VAPOR PROOF LIGHT FIXTURE W/8.5 WATT SYLVANIA LED BULB & GLOBE
	STRIP CURTAIN 2 – KASON #1346 ADJUSTABLE SPRING LOADED HINGES HEATED VISION WINDOW (14" x 14")
	1/8" DIAMOND ALUMINUN TREAD PLATE KICKPLATES @ 36" HIGH I/S & O/S DOOR & FRAME KASON #1827 PRESSURE RELIEF VENT (FREEZER DOOR ONLY) EVAPORATOR FAN CUT-OFF SWITCH SLAM BRACES
ACCESSORIES: (shipped loose)	2 – PCS. TRIM ANGLE – 20 GA STAINLESS STEEL, #3 FINISH CLOSURE PANEL TO AN EXISTING CEILING (PER PLAN) – (VERIFY HEIGHT) 20 GA STAINLESS STEEL, #3 FINISH
	2 – 48" (1810LC) LED LIGHT FIXTURE(S) @ 40W EACH 1/8" DIAMOND ALUMINUM TREAD PLATE WAINSCOT @ 36" HIGH (EXPOSED EXTERIOR ONLY) 2 – KASON #1901 MOTION SENSORS W/LIGHT ACTIVATOR & SHUT OFF 2 – BAKELITE LABELS (BLACK)
	"FREEZER" & "COOLER" VISQUEEN PLASTIC SHEETING 2 LAYERS OF 2" THICK URETHANE SLAB INSULATION
	2 – STAINLESS STEEL ESCUTCHEONS 2 – STAINLESS STEEL THERMOMETER PROBE STAND–OFF BRACKETS 2 – DOOR STOPS
METAL FINISHES:	2" X 8" 16 GA STAINLESS STEEL BEVELED BUMPER RAIL @ 41" A.F.F. (PER PLAN)
	INTERIOR WALLS – .040 STUCCO ALUMINUM INTERIOR CEILING – <u>SMOOTH</u> WHITE .040 ALUMINUM (U.S.D.A.) EXPOSED EXTERIOR – 20 GA STAINLESS STEEL, #3 FINISH
	UNEXPOSED EXTERIOR – 26 GA STUCCO ACRYLUME EXTERIOR CEILING – 26 GA STUCCO ACRYLUME
	A 10/13/22 REVISED FLOORING TO VINYL SCREED RB WQ
/MCA/MOP)	REV. DATE DESCRIPTION REV. BY CHK'D
/MCA/MOP)	American Panel AMERICAN PANEL CORPORATION 5800 S.E. 78th St. Ocala, Florida 34472
	Ph. (352) 245-7055 Fax (352) 245-0726 CUSTOMER:
ACCESSORIES.	CLEVENGER ASSOCIATES PROJECT:
	ALAN SHEPARD ELEMENTARY SCHOOL – LONG GROVE, IA date: drawn by: p.o.#:

17 18

19 20

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22

23



9/14/22

SCALE:

SH/SE

5/16"=1'-0" PD203707

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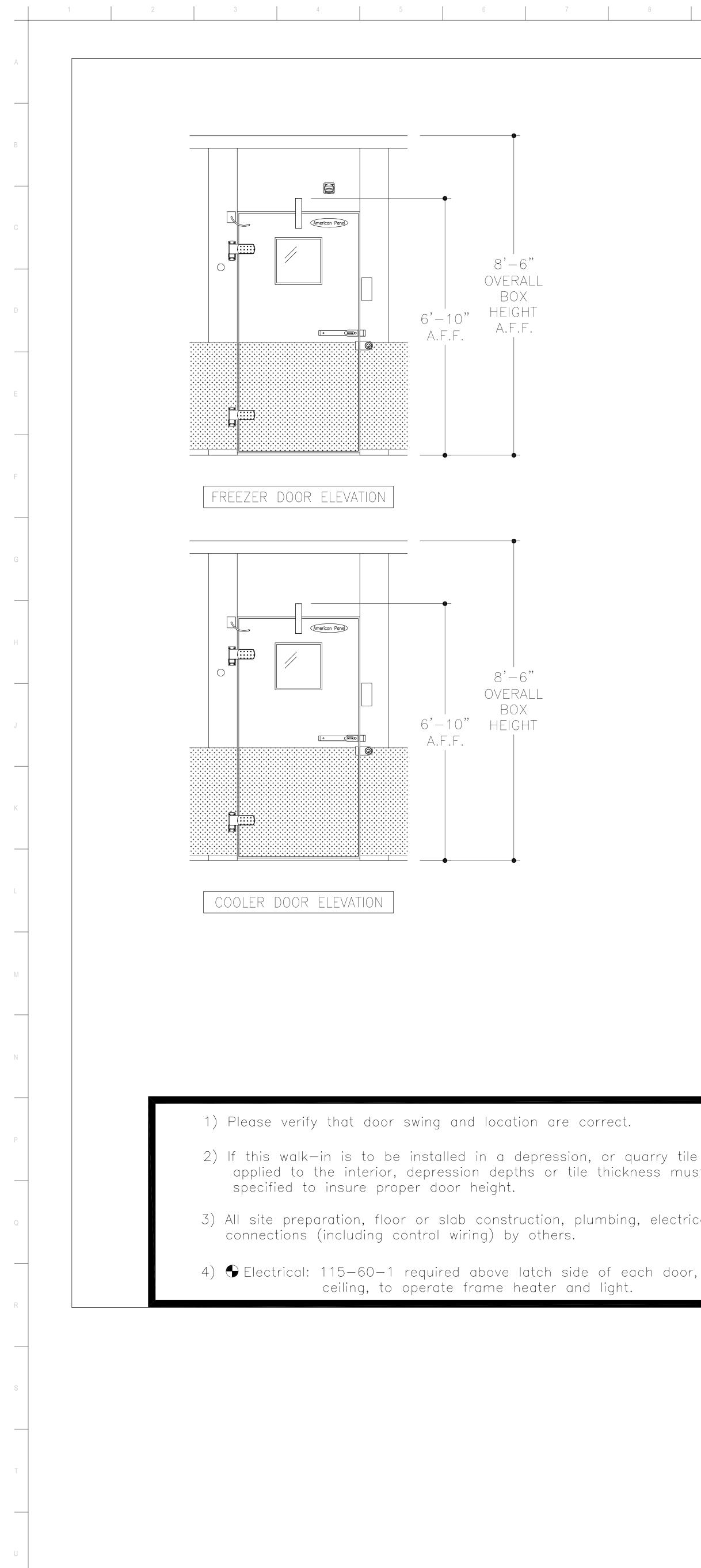
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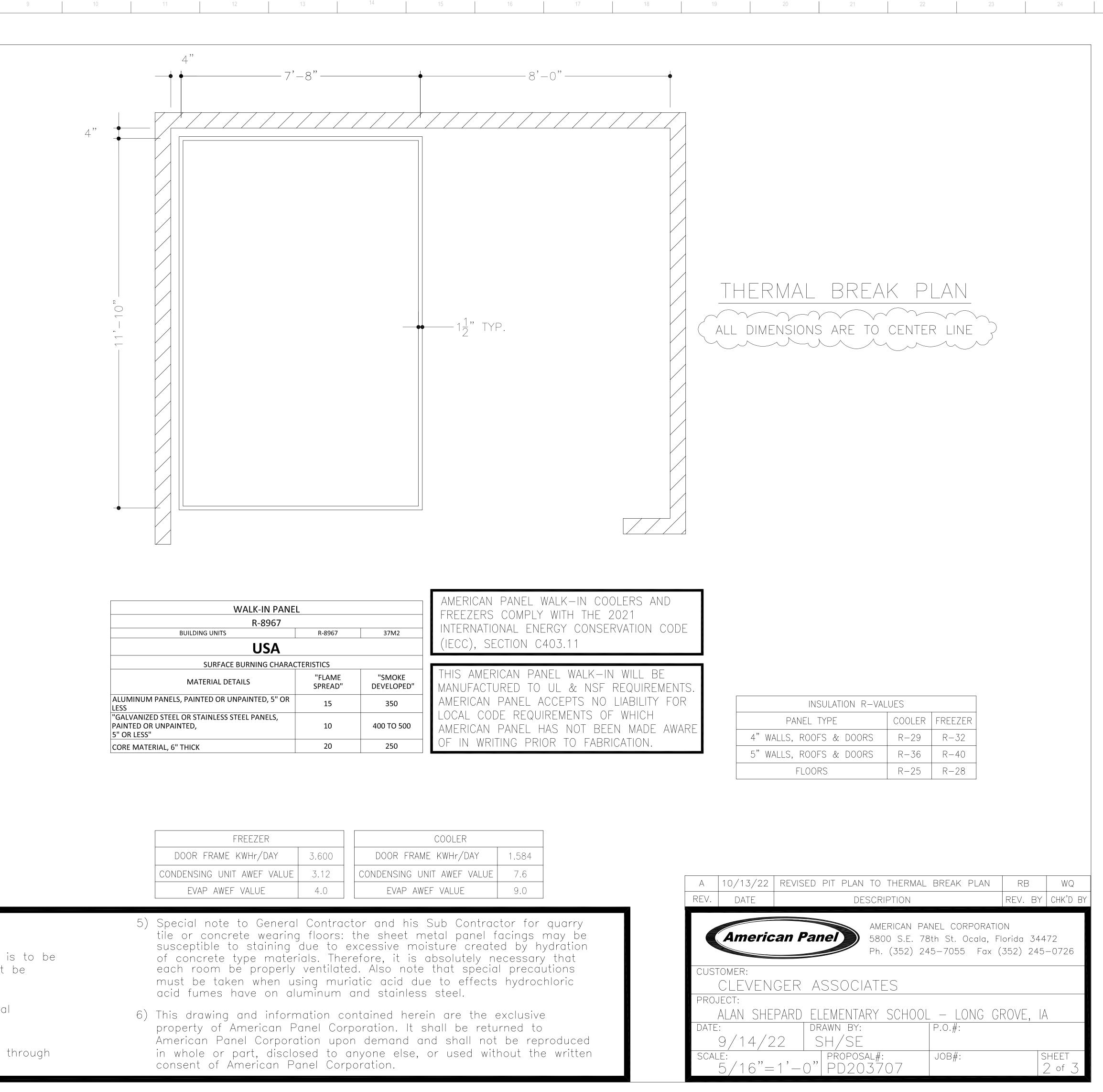
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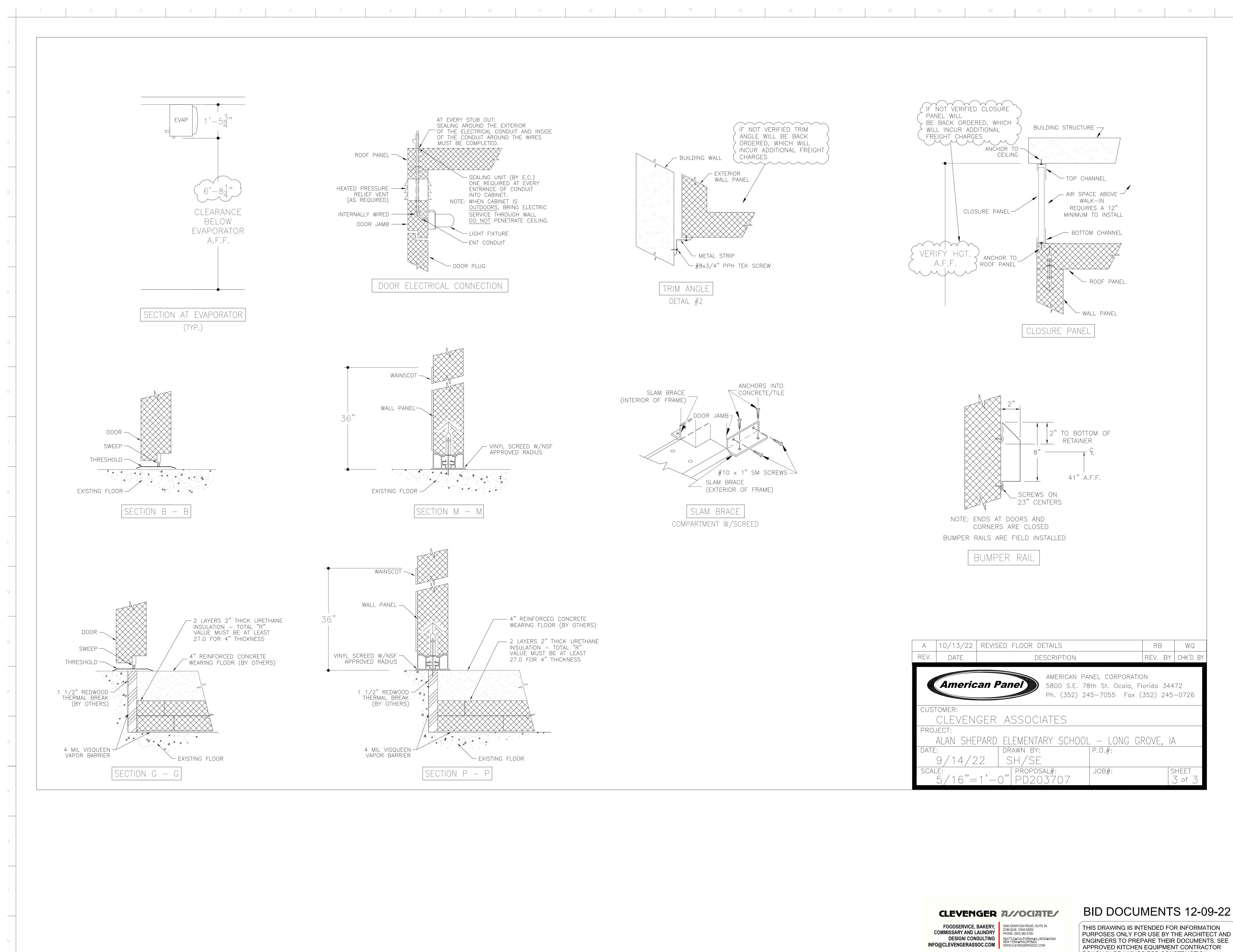
WALK-IN PANEI R-8967										
BUILDING UNITS	BUILDING UNITS R-8967 37M2									
USA	USA									
SURFACE BURNING CHARAC	SURFACE BURNING CHARACTERISTICS									
MATERIAL DETAILS	"FLAME SPREAD"	"SMOKE DEVELOPED"	THIS AMERICAN MANUFACTURED							
ALUMINUM PANELS, PAINTED OR UNPAINTED, 5" OR LESS	15	350	AMERICAN PANE							
"GALVANIZED STEEL OR STAINLESS STEEL PANELS, PAINTED OR UNPAINTED, 5" OR LESS"	10	400 TO 500	LOCAL CODE RE American pane							
CORE MATERIAL, 6" THICK	20	250	OF IN WRITING							

	FREEZER	COOLER					
	DOOR FRAME KWHr/DAY	3.600	DOOR FRAME KWHr/DAY	1.58			
	CONDENSING UNIT AWEF VALUE	3.12	CONDENSING UNIT AWEF VALUE	7.6			
	EVAP AWEF VALUE	4.0	EVAP AWEF VALUE	9.0			
o) uarry tile is to be ness must be	5) Special note to General Contractor and his Sub Contraction tile or concrete wearing floors: the sheet metal panel for susceptible to staining due to excessive moisture created of concrete type materials. Therefore, it is absolutely neach room be properly ventilated. Also note that species must be taken when using muriatic acid due to effects acid fumes have on aluminum and stainless steel.						
, electrical 6)	property of American P	ntained herein are the e poration. It shall be retu	rned				
ach door, through	American Panel Corporation upon demand and shall not in whole or part, disclosed to anyone else, or used with consent of American Panel Corporation.						



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ROUGH-IN DRAWINGS FOR CONSTRUCTION.



	MODEL: RAN HT TITEM # ## UP #TADOLESS STEEL HOT -ACCOMMODATES (5) -2 ANS PROVIDED BY O OPEN STORAGE BASE -INDEVIDUAL THERMO CONTROLS AND DES POR ROOD WILLS -1/2" ELAMETER COPPE MANDRED TO COMM VALVE. DRADVLINE BELLING UNIT BOTTOM SALVE. DRADVLINE BELLING UNIT BOTTOM SURVISIE/UPIDOLS AN ALTERNATE VOLTAG & POOT OURD - NEMA -CONCEALED LOCENN &" CASTERS - (2) LOCK RAN CP75/	TD-55 NIT # 1 FEXED TABLE FULL SIZE PANE VILLES STATIC CATOR LIGHTE CATOR LIGHTE CATOR LIGHTE CATOR LIGHTE CATOR LIGHTE STATIC CATOR LIGHTE STATIC CATOR LIGHTE CATOR LIGHTE C	FTEM # 45 STADULESS S -OPEN STORA -CONCEALED	DEL: RAN ST-68 LINIT # 2 OTELL WORK TOP AGE BASE D LOCKING MECHANIS - (2) LOCKING	
				WORE BOARD	
				OPTS SHELF	
			- 20 C	OPEN SHELF	
				SHELF	
LINET BODY -STAINE SHE STREE, ALL WHE DRE - ALL CORNERS DO BE WELDS - ROOM PANELS TO REFITTERS - ROOM PANELS ARE INTERCH - PERENGLAUS CONSTRUCTION - ROOM IS UNE-PERCE MOLINE - CORDERS AND AREAS WITH SHEE VES - STADE END STREE, CONSTRUCT CASTERS	Semine C	VI COMMENT TO ALL OTHER	ER RANCERVE EQUIPMENT RACKERVE EQUIPMENT	SHELF OFFIN MILE -72*- RANSERVE CONSIDERUCT COLD P/ + NEAT + ROOT	
 -IS GAUGE STAINLESS STEEL # - STAINELSS STEEL ALL WELDS - ALL CORNERS TO BE WELDS - ALL CORNERS TO BE WELDS - ROOT PASELS TO BE FITTERS - BOOT PASELS TO BE FITTERS - BOOT PASELS ARE INTERCED - REBRICE AND CONSTRUCTION - REBRICE AND CONSTRUCTION - REBRICE AND CONSTRUCTION - REBRICE AND ARE ALL WITH - CORDIESS AND ARE ALL WITH - OTE # 	SHELF SHELF 110 STANDARD CONSTRUCTION DESTANDED SHELF STANDARDSHEE	VI COMMENT TO ALL OTH FIN GALVANIZED TITEFL FOR FINISH (SPECIFY COR FORCIDD INTERNALLY W FORCED INTERNALLY W	ER BACKERVE BOUTPMENT RACKERG (ERECTY LAMEN)	SHELF OFFIN MILLF 	10日間にある。10日間には、
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CLECCARR III & RACK, SPICE, LCRIVERI, APRCH

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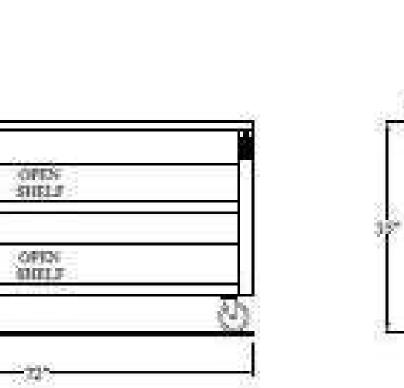
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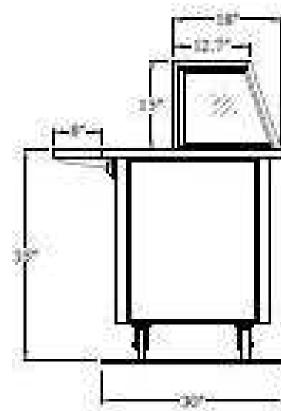
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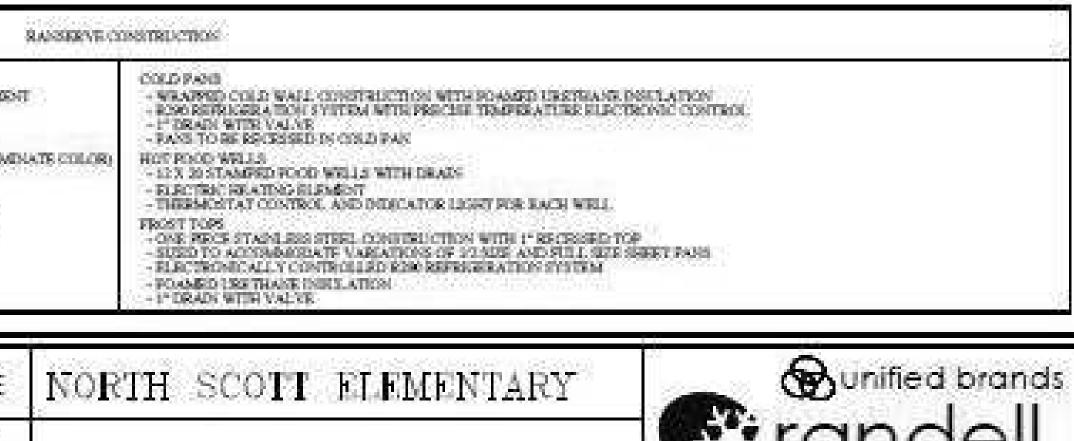


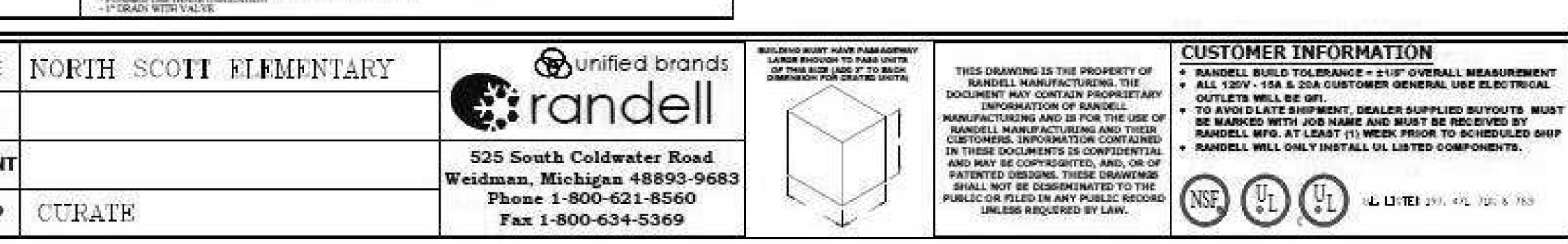
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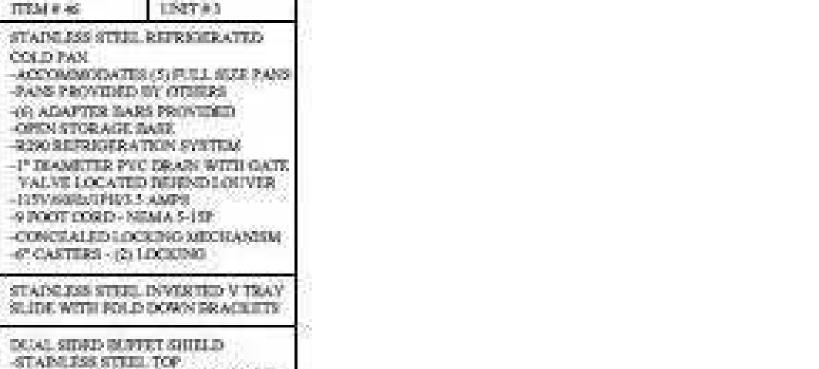
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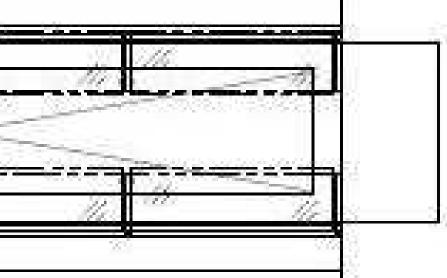


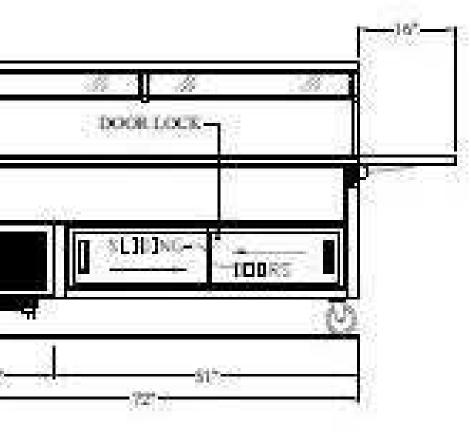


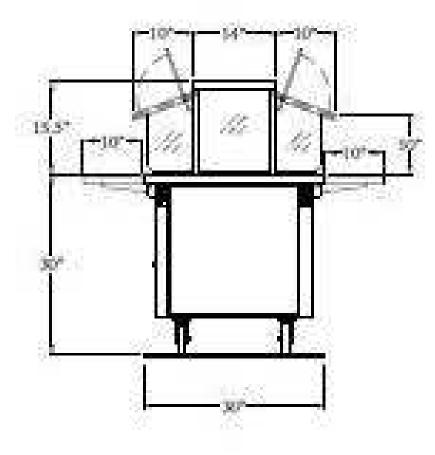




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 FOODSERVICE, BAKERY,
 5900 SARATOGA ROAD, SUITE 2A

 DUBUQUE, IOWA 52002
 DHONE: (563) 582-5109

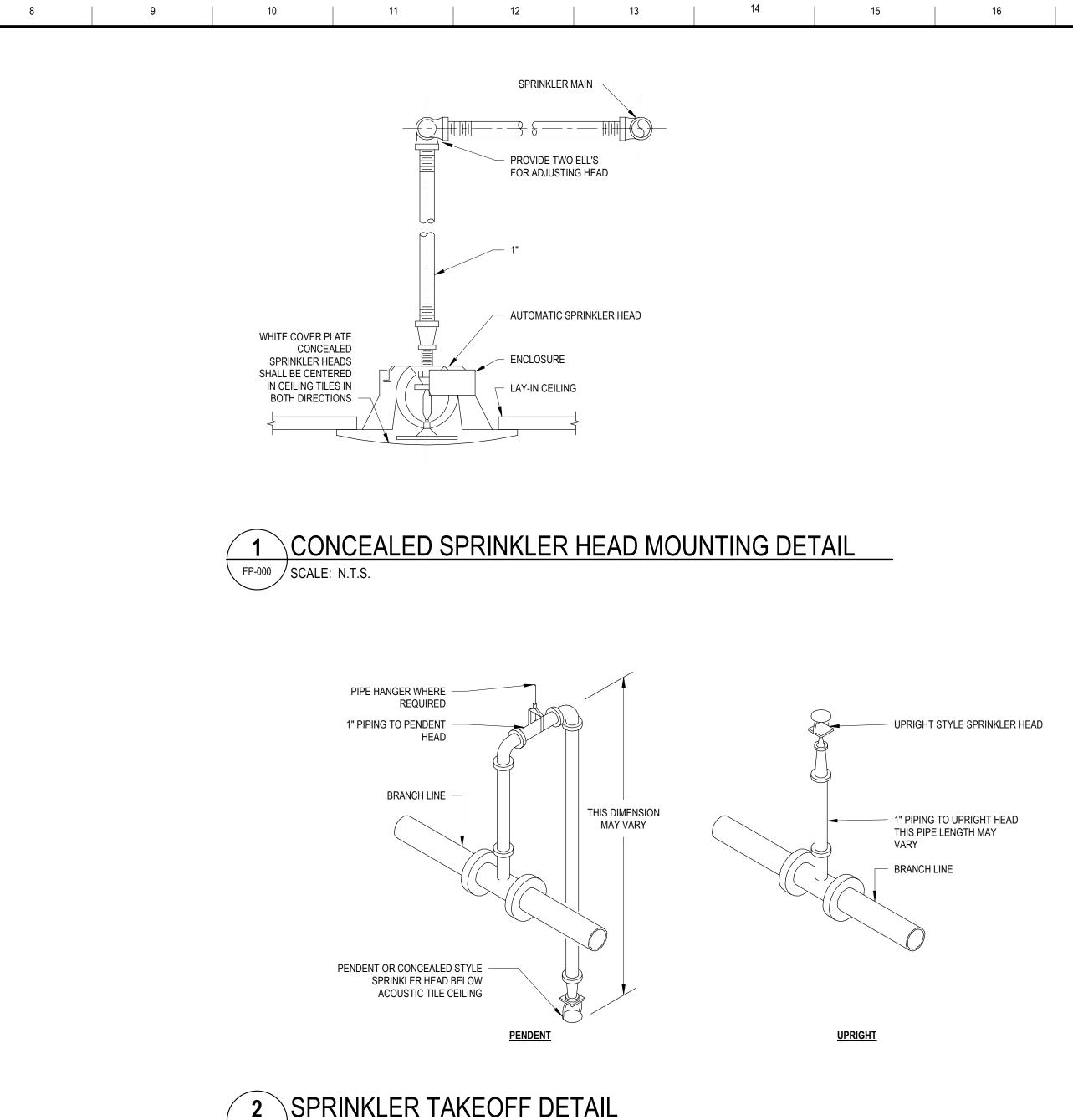
 DESIGN/ CONSULTING
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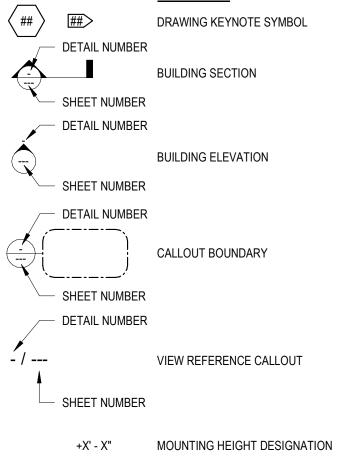
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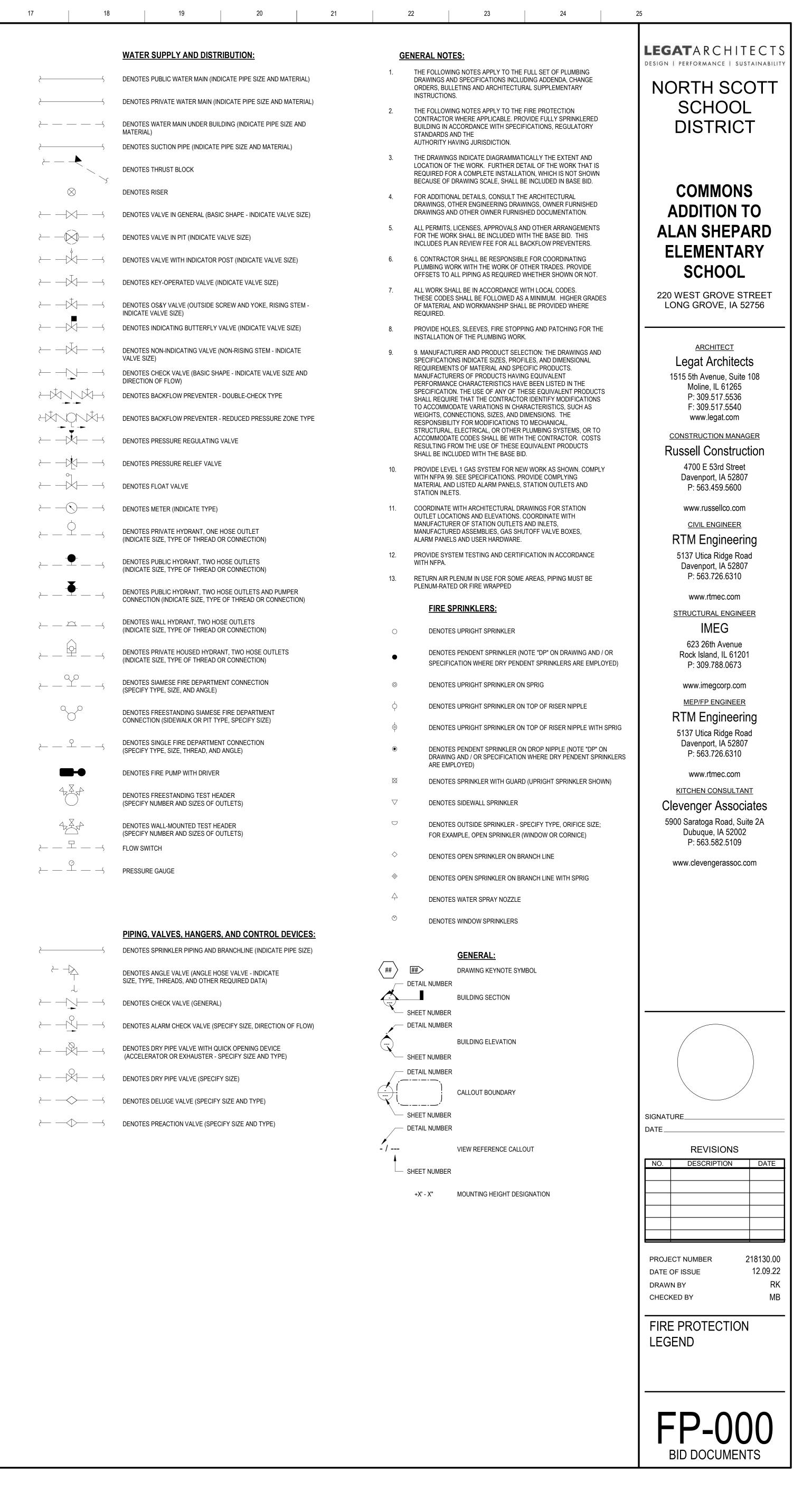
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	TES FREESTANDING SIAMESE FIRE DEPARTMENT ECTION (SIDEWALK OR PIT TYPE, SPECIFY SIZE)
	TES SINGLE FIRE DEPARTMENT CONNECTION CIFY TYPE, SIZE, THREAD, AND ANGLE)
DENC	TES FIRE PUMP WITH DRIVER
	TES FREESTANDING TEST HEADER CIFY NUMBER AND SIZES OF OUTLETS)
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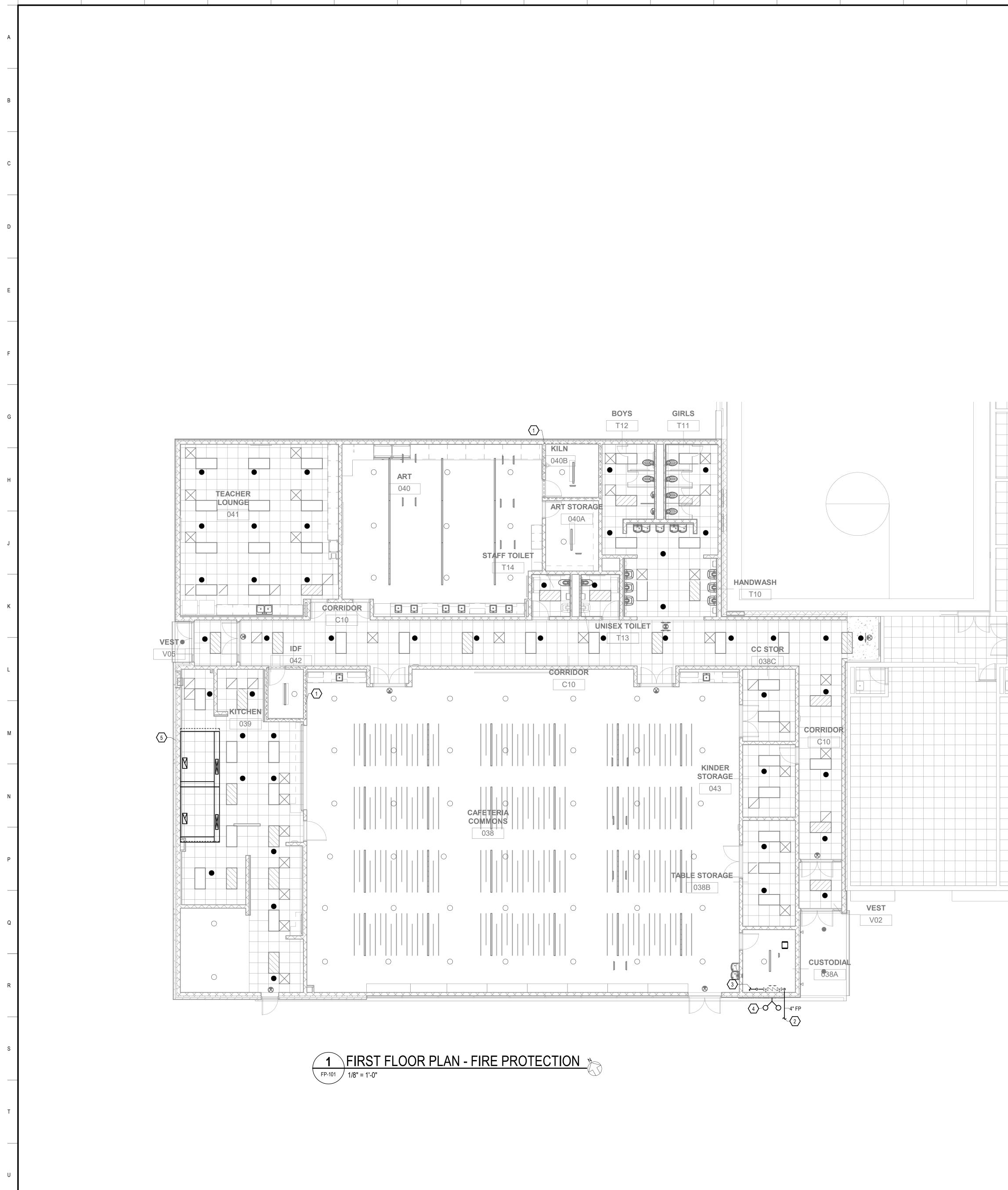
 $\succ \neg \searrow$ $\longleftarrow \longrightarrow \longrightarrow \qquad \qquad \mathsf{DENOTES PREACTION VALVE (SPECIFY SIZE AND TYPE)}$

Content of the second s DENOTES ANGLE VALVE (ANGLE HOSE VALVE - INDICATE SIZE, TYPE, THREADS, AND OTHER REQUIRED DATA) \leftarrow — \swarrow Denotes alarm check valve (specify size, direction of flow) Context denotes dry pipe valve with quick opening device (Accelerator or Exhauster - Specify Size and type) \leftarrow \rightarrow \leftarrow \rightarrow DENOTES DRY PIPE VALVE (SPECIFY SIZE) \leftarrow \longrightarrow DENOTES DELUGE VALVE (SPECIFY SIZE AND TYPE)

0	ENERAL NOTES:
<u>9</u> 1.	THE FOLLOWING NOTES APPLY TO THE FULL SET OF PLUMBING DRAWINGS AND SPECIFICATIONS INCLUDING ADDENDA, CHANGE ORDERS, BULLETINS AND ARCHITECTURAL SUPPLEMENTARY INSTRUCTIONS.
2.	THE FOLLOWING NOTES APPLY TO THE FIRE PROTECTION CONTRACTOR WHERE APPLICABLE. PROVIDE FULLY SPRINKLERED BUILDING IN ACCORDANCE WITH SPECIFICATIONS, REGULATORY STANDARDS AND THE AUTHORITY HAVING JURISDICTION.
3.	THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT AND LOCATION OF THE WORK. FURTHER DETAIL OF THE WORK THAT IS REQUIRED FOR A COMPLETE INSTALLATION, WHICH IS NOT SHOWN BECAUSE OF DRAWING SCALE, SHALL BE INCLUDED IN BASE BID.
4.	FOR ADDITIONAL DETAILS, CONSULT THE ARCHITECTURAL DRAWINGS, OTHER ENGINEERING DRAWINGS, OWNER FURNISHED DRAWINGS AND OTHER OWNER FURNISHED DOCUMENTATION.
5.	ALL PERMITS, LICENSES, APPROVALS AND OTHER ARRANGEMENTS FOR THE WORK SHALL BE INCLUDED WITH THE BASE BID. THIS INCLUDES PLAN REVIEW FEE FOR ALL BACKFLOW PREVENTERS.
6.	6. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING PLUMBING WORK WITH THE WORK OF OTHER TRADES. PROVIDE OFFSETS TO ALL PIPING AS REQUIRED WHETHER SHOWN OR NOT.
7.	ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES. THESE CODES SHALL BE FOLLOWED AS A MINIMUM. HIGHER GRADES OF MATERIAL AND WORKMANSHIP SHALL BE PROVIDED WHERE REQUIRED.
8.	PROVIDE HOLES, SLEEVES, FIRE STOPPING AND PATCHING FOR THE INSTALLATION OF THE PLUMBING WORK.
9.	9. MANUFACTURER AND PRODUCT SELECTION: THE DRAWINGS AND SPECIFICATIONS INDICATE SIZES, PROFILES, AND DIMENSIONAL REQUIREMENTS OF MATERIAL AND SPECIFIC PRODUCTS. MANUFACTURERS OF PRODUCTS HAVING EQUIVALENT PERFORMANCE CHARACTERISTICS HAVE BEEN LISTED IN THE SPECIFICATION. THE USE OF ANY OF THESE EQUIVALENT PRODUCTS SHALL REQUIRE THAT THE CONTRACTOR IDENTIFY MODIFICATIONS TO ACCOMMODATE VARIATIONS IN CHARACTERISTICS, SUCH AS WEIGHTS, CONNECTIONS, SIZES, AND DIMENSIONS. THE RESPONSIBILITY FOR MODIFICATIONS TO MECHANICAL, STRUCTURAL, ELECTRICAL, OR OTHER PLUMBING SYSTEMS, OR TO ACCOMMODATE CODES SHALL BE WITH THE CONTRACTOR. COSTS RESULTING FROM THE USE OF THESE EQUIVALENT PRODUCTS SHALL BE INCLUDED WITH THE BASE BID.
10.	PROVIDE LEVEL 1 GAS SYSTEM FOR NEW WORK AS SHOWN. COMPLY WITH NFPA 99. SEE SPECIFICATIONS. PROVIDE COMPLYING MATERIAL AND LISTED ALARM PANELS, STATION OUTLETS AND STATION INLETS.
11.	COORDINATE WITH ARCHITECTURAL DRAWINGS FOR STATION OUTLET LOCATIONS AND ELEVATIONS. COORDINATE WITH MANUFACTURER OF STATION OUTLETS AND INLETS, MANUFACTURED ASSEMBLIES, GAS SHUTOFF VALVE BOXES, ALARM PANELS AND USER HARDWARE.
12.	PROVIDE SYSTEM TESTING AND CERTIFICATION IN ACCORDANCE WITH NFPA.
13.	RETURN AIR PLENUM IN USE FOR SOME AREAS, PIPING MUST BE PLENUM-RATED OR FIRE WRAPPED
	FIRE SPRINKLERS:
0	DENOTES UPRIGHT SPRINKLER
•	DENOTES PENDENT SPRINKLER (NOTE "DP" ON DRAWING AND / SPECIFICATION WHERE DRY PENDENT SPRINKLERS ARE EMPLO
0	DENOTES UPRIGHT SPRINKLER ON SPRIG
¢	DENOTES UPRIGHT SPRINKLER ON TOP OF RISER NIPPLE
ø	DENOTES UPRIGHT SPRINKLER ON TOP OF RISER NIPPLE WITH
۲	DENOTES PENDENT SPRINKLER ON DROP NIPPLE (NOTE "DP" OF DRAWING AND / OR SPECIFICATION WHERE DRY PENDENT SPRI ARE EMPLOYED)
\boxtimes	DENOTES SPRINKLER WITH GUARD (UPRIGHT SPRINKLER SHOW
\bigtriangledown	DENOTES SIDEWALL SPRINKLER
	DENOTES OUTSIDE SPRINKLER - SPECIFY TYPE, ORIFICE SIZE; FOR EXAMPLE, OPEN SPRINKLER (WINDOW OR CORNICE)
\diamond	DENOTES OPEN SPRINKLER ON BRANCH LINE
\diamond	DENOTES OPEN SPRINKLER ON BRANCH LINE WITH SPRIG
Ą	DENOTES WATER SPRAY NOZZLE
\oslash	DENOTES WINDOW SPRINKLERS
#>	Image: Base of the symbol Image: Base of the symbol
· ·	BUILDING SECTION







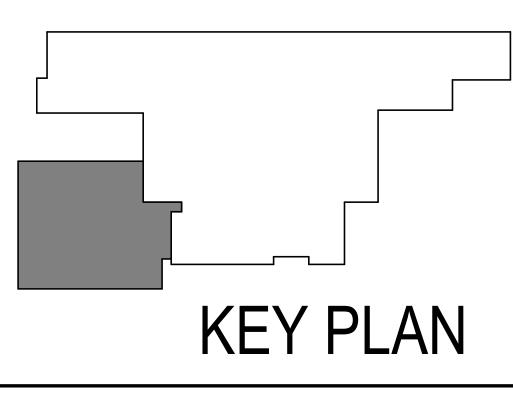
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1.	DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN EVEN THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (F TO BE SENT TO THE ENGINEER TO RECORD. AS STATED IN SPECIFICATION THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OF WHILE AT BID UNLESS CLARIFICATION FROM RFI.	RFI) IS DIV 1,
2.	ALL FIRE PROTECTION SHEETS SHALL BE REVIEWED AND COORDINATED W OTHER TRADES PRIOR TO INSTALLATION.	ITH ALL

3. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET FP-000.

<u># KEYNOTES</u>

- HIGH HEAT SPRINKLER HEAD TO BE USED IN THIS AREA. 2 4" FIRE PROTECTION MAIN TO CONTINUE TO CITY MAIN. COORDINATE EXACT
- LOCATION WITH CIVIL. 3 4" FIRE LINE TO CONTINUE TO FEED REST OF THE ADDITION.
- 4 FIRE DEPARTMENT CONNECTION.
- 5 AREA PROTECTED BY KITCHEN HOODS ANSUL SYSTEM. COORDINATE EXACT LOCATION WITH KITCHEN CONSULTANT.





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PIPE SYSTEM

PLUMBING	EQUIPMENT:	PIPE SYSTEM LINETYPES:
		PIPING OR EQUIPMENT TO BE REMOVED
	SEWAGE EJECTOR (SE)	PIPING OR EQUIPMENT TO REMAIN
		GR9 GREY WASTE (GRS)
\pm		GREASE WASTE (GR)
	BOOSTER PUMP (BP)	CV CLEAR WATER VENT (CV)
		— — — AV— — — — ACID VENT (AV)
п —— -Л		AW————————————————————————————————————
	GAS FIRED WATER HEATER -	DT SUB-SOIL DRAINAGE (DT)
	EXTERNAL STORAGE (GWH)	
		GREY WATER (GRW)
\frown		CA————————————————————————————————————
$\begin{pmatrix} 0 \\ \cdot 0 \cdot \end{pmatrix}$	GAS FIRED WATER HEATER -	CW(CITY) CITY COLD WATER (CW(CITY))
	INTERNAL STORAGE (GWH)	— – — COLD WATER DOMESTIC (CW)
		CWR COLD WATER RETURN (CWR)
\frown		SCW SOFT COLD WATER (SCW)
$\langle \rangle$	ELECTRIC WATER HEATER -	GARAGE WASTE (GW)
(°°)	INTERNAL STORAGE (EWH)	HOT WATER DOMESTIC (HW)
\checkmark		HOT WATER DOMESTIC RETURN (HWR)
		NG NATURAL GAS (NG)
00	GAS FIRED WATER HEATER - TANKLESS (GWH)	NPCW NON-POTABLE COLD WATER (NPCW)
		— — — OV— — — OIL VENT (OV)
	WATER METER	PD-PD-PD-PUMP DISCHARGE (PD)
		PW-PW-PURE WATER (PW)
d þ	SEPARATOR/ INTERCEPTOR (SEE	SAN
	SCHEDULE FOR ABBREVIATION)	ST STORM (ST)
	RECIRCULATION PUMP	STO STORM OVERFLOW (STO)
\bigcirc		
•	EXPANSION TANK (ET)	— — – V — — – VENT (V)
	SUMP PUMP (SP)	PLUMBING TAGS:
		MARK

GENERAL NOTES:

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1. THE FOLLOWING NOTES APPLY TO THE FULL SET OF PLUMBING DRAWINGS AND SPECIFICATIONS INCLUDING ADDENDA, CHANGE ORDERS, BULLETINS AND ARCHITECTURAL SUPPLEMENTARY INSTRUCTIONS.

BACK WATER VALVE (BW)

- THE DRAWINGS INDICATE DIAGRAMMATICALLY THE 2. EXTENT AND LOCATION OF THE WORK. FURTHER DETAIL OF THE WORK THAT IS REQUIRED FOR A COMPLETE INSTALLATION, WHICH IS NOT SHOWN BECAUSE OF DRAWING SCALE, SHALL BE INCLUDED IN BASE BID.
- FOR ADDITIONAL DETAILS, CONSULT THE ARCHITECTURAL DRAWINGS, OTHER ENGINEERING DRAWINGS, OWNER FURNISHED DRAWINGS AND OTHER OWNER FURNISHED DOCUMENTATION.
- ALL PERMITS, LICENSES, APPROVALS AND OTHER 4. ARRANGEMENTS FOR THE WORK SHALL BE INCLUDED WITH THE BASE BID. THIS INCLUDES PLAN REVIEW FEE FOR ALL BACKFLOW PREVENTERS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR 5. COORDINATING PLUMBING WORK WITH THE WORK OF OTHER TRADES. PROVIDE OFFSETS TO ALL PIPING AS REQUIRED WHETHER SHOWN OR NOT.
- ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL 6. CODES. THESE CODES SHALL BE FOLLOWED AS A MINIMUM. HIGHER GRADES OF MATERIAL AND WORKMANSHIP SHALL BE PROVIDED WHERE REQUIRED.
- PROVIDE HOLES, SLEEVES, FIRE STOPPING AND 7 PATCHING FOR THE INSTALLATION OF THE PLUMBING WORK.
- MANUFACTURER AND PRODUCT SELECTION: THE DRAWINGS AND SPECIFICATIONS INDICATE SIZES, PROFILES, AND DIMENSIONAL REQUIREMENTS OF MATERIAL AND SPECIFIC PRODUCTS. MANUFACTURERS OF PRODUCTS HAVING EQUIVALENT PERFORMANCE CHARACTERISTICS HAVE BEEN LISTED IN THE SPECIFICATION. THE USE OF ANY OF THESE EQUIVALENT PRODUCTS SHALL REQUIRE THAT THE CONTRACTOR IDENTIFY MODIFICATIONS TO ACCOMMODATE VARIATIONS IN CHARACTERISTICS, SUCH AS WEIGHTS, CONNECTIONS, SIZES, AND DIMENSIONS. THE RESPONSIBILITY FOR MODIFICATIONS TO MECHANICAL, STRUCTURAL, ELECTRICAL, OR OTHER PLUMBING SYSTEMS, OR TO
- ACCOMMODATE CODES SHALL BE WITH THE CONTRACTOR. COSTS RESULTING FROM THE USE OF THESE EQUIVALENT PRODUCTS SHALL BE INCLUDED WITH THE BASE BID.
- PROVIDE A.S.S.E APPROVED TMV ON ALL PUBLIC 9 SINKS TO PROVIDE A MAX OF 110 DEG F TO ENSURE SCOLDING WILL NOT OCCUR.

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VIEW REFERENCE CALLOUT

MOUNTING HEIGHT DESIGNATION

JOINING METHOD

SOLVENT

SOLVENT

HUBLESS

95/5 SOLDER

95/5 SOLDER

95/5 SOLDER

SOLVENT

LEAD FREE BRAZED

PIPE	MATERI	AL SCHE	DULE

APPLICATION	LOCATION	SIZE	MATERIAL	JOININ		
	BELOW GRADE	ALL	SCHEDULE 40 ABS	SOLVE		
SANITARY WASTE/ VENT	ABOVE GRADE	ALL	SCHEDULE 40 ABS	SOLVE		
	PLENUM RETURN	ALL	CAST IRON			
T&P RELIEF	ALL	ALL	COPPER (TYPE M)	95/5 SC		
DOMESTIC WATER IN OR	BELOW GRADE	ALL	COPPER (TYPE K) W/CORROSION-RESISTANT TAPE	LEAD F		
WITHIN 5' OF BUILDING	ABOVE GRADE	ALL	COPPER (TYPE L OR K)	95/5 SC		
CONDENSATE	PLENUM RETURN	ALL	COPPER (TYPE M)	95/5 SC		
CONDENSATE	DUCTED RETURN	DUCTED RETURN ALL SCHEDULE 40 ABS SO				
NOTES:	ALL ABS AND PVC PIPIN	ALL PIPING MATERIAL AND JOINING METHODS CONTINGENT ON AUTHORITY HAVIN JURISDICTION APPROVAL ALL ABS AND PVC PIPING EXPOSED TO SUNLIGHT SHALL BE PROTECTED BY WATER-BASED LATEX PAINT ALL BLACK STEEL PIPING EXPOSED TO MOISTURE SHALL BE PROTECTED BY RUST-PREVENTATIVE PAINT				

PLUMBING INSULATION NOTES:

DOMESTIC COLD WATER ABOVE GRADE: LIGHT DENSITY, FIBERGLASS PIPE INSULATION. 1/2" THICK, WITH VAPOR BARRIER JACKET.

DOMESTIC HOT WATER-ABOVE GRADE: LIGHT DENSITY, FIBERGLASS PIPE INSULATION, 1" THICK, WITH GLASS CLOTH JACKET.

AT CONTRACTOR'S OPTION FIBERGLASS SNAP ON INSULATION WITH FOAM VAPOR BARRIER MAY BE SUBSTITUTED FOR ABOVE. PIPING TO BE INSULATED ACCORDING TO 2009 INTERNATIONAL

ENERGY CONSERVATION CODE. ANY NEW WATER PIPING SHALL BE INSULATED TO A MINIMUM OF R-3.

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LINETYPES:	

PLUMBING FITTINGS:			
$\overline{}$	45° ELBOW		
]	САР		
	90° ELBOW		
—	ELBOW DOWN		
—0	ELBOW UP		
\neg	TEE		
	TEE DOWN		
-0-	TEE UP		
$\overline{}$	LATERAL		
$\neg \mid \vdash$	UNION		
-0000-	FLEXIBLE CONNECTION		
2	PIPE CONTINUATION		
	CLEANOUT (CO)		
— O	FLOOR CLEANOUT (FCO)		
<u> </u>	WALL CLEANOUT (WCO)		
	FLOOR SINK		
	DRAIN		
t_	XX DENOTES THE FOLLOWING (AD) AREA DRAIN (FD) FLOOR DRAIN (HD) HUB DRAIN (RD) POOE DRAIN		

(RD) ROOF DRAIN

 $\begin{pmatrix} x \\ x \end{pmatrix}$

RISER

##" XX

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NUMBER-

NUMBER-

PIPE SIZE

SYSTEM ABBREVIATION

SHEET NUMBER

VIEW NUMBER

REFERENCE

		PLUMBIN	IG VALVES:
	PLUMBING EQUIPMENT TAG	X	SOLENOID VALVE
7	RISER TAG		MODULATING 2-WAY VALVE
)	NOLNTAG		MODULATING 3-WAY VALVE
		—— ⊗ ——	BALANCING VALVE
	PIPE DIMENSION TAG	—⊣Фі—	BALL VALVE
	POINT OF NEW CONNECTION	—— [— —	BUTTERFLY VALVE
	POINT OF DISCONNECTION		CHECK VALVE
			MIXING VALVE
	REFERENCE TAG		FLOAT OPERATED VALVE
		—Ā—	GATE VALVE
		— 1 27—	GLOBE VALVE
		I≩I	PLUG VALVE
	ENERAL: RAWING KEYNOTE SYMBOL	K	PRESSURE REDUCING VALVE
DI	JILDING SECTION		SAFETY RELIEF VALVE
Ы	JILDING SECTION		DOUBLE CHECK VALVE ASSEMBLY
			REDUCED PRESSURE ZONE VALVE (RPZ) DUAL CHECK VALVE WITH INTERMEDIATE ATMOSPHERIC VENT
Bſ	JILDING ELEVATION	₩ <u>Ţ</u> ŶŢ₩	DUAL CHECK VALVE WITH INTERMEDIATE ATMOSPHERIC VENT
C/	ALLOUT BOUNDARY		
		PLUMBING SP	ECIALTIES:

PLUMBING SPECIALTIES:				
Ą	AUTOMATIC AIR VENT			
гф	MANUAL AIR VENT			
Ŷ	PRESSURE GAUGE			
PS	PRESSURE SWITCH			
Ρ	THERMOMETER			
\mathbb{F}	STRAINER, BLOW DOWN			
\mathbb{P}	STRAINER			
	EXPANSION LOOP			
	EXPANSION JOINT			
Ŧ	WATER HAMMER ARRESTER			
Ŷ	AQUASTAT			
H	HOSE BIBB/ WALL HYDRANT			
~	TRAP PRIMER			
Рив	VACUUM BREAKER			

SPILL PROOF VACUUM BREAKER

	<u>GABBREVIATIONS:</u>
C	AREA DRAIN
=P	BACKFLOW PREVENTER
	BOOSTER PUMP
ru ruh	BRITISH THERMAL UNIT BTU(S) PER HOUR
))	CLEANOUT
D 2	CARBON DIOXIDE
PVC	CHLORINATED PVC
N NR	COLD WATER COLD WATER RETURN
NFU	COLD WATER FIXTURE UNITS
=	DRINKING FOUNTAIN
=U	DRAINAGE FIXTURE UNITS
A	DIAMETER
S N	DOWNSPOUT DISH WASHER
S	EMERGENCY SHOWER
Г	EXPANSION TANK
/AC	WASTE ANESTHETIC GAS DISPOSAL
N	EMERGENCY EYE WASH
NC NH	ELECTRIC WATER COOLER ELECTRIC WATER HEATER
20	FLOOR CLEANOUT
)	FLOOR DRAIN
RS	FLUSHING RIM SINK
	FLOOR SINK
PM WH	GALLONS PER MINUTE GAS WATER HEATER
3	HOSE BIBB
C	HUB DRAIN
S	HAND SINK
N NR	HOT WATER HOT WATER RETURN
WR WFU	HOT WATER RETORN HOT WATER FIXTURE UNITS
/P	INDIRECT WASTE PIPE
S	KITCHEN SINK
N	KILOWATT
A AV	LAB AIR LAVATORY
/	LABATORY VACUUM
В	MOP BASIN
BH	BTU PER HOUR (THOUSAND
V	MIXING VALVE NITROGEN
CP	NITROGEN CONTROL PANEL
)	NOZZLE DRAIN
G	NATURAL GAS
С ЭТ	
-1	NATIONAL PIPE THREAD TAPERED
ΞX	CROSS LINKED POLYETHYLENE
C	POINT OF CONNECTION
SI	POUNDS PER SQUARE INCH
SIG /C	PSI GAUGE POLYVINYL CHLORIDE
N	PURE WATER
D	ROOF DRAIN
00	ROOF DRAIN OVERFLOW
PM	REVOLUTIONS PER MINUTE
C	SINK SHOWER DRAIN
=	SEWAGE EJECTOR
- -U	SUPPLY FIXTURE UNIT
-	SHOWER
o PR	SUMP PUMP STANDPIPE RECEPTOR
S	SERVICE SINK
5	TRENCH DRAIN
EMP	TEMPERATURE
//∨ ⋜	THERMOSTATIC MIXING VALVE
л А	VACUUM
FR	VENT THROUGH ROOF
	WASTE PIPE
C	WATER CLOSET
CO H	WALL CLEANOUT WATER HEATER
S	WATER SOFTENER
0	YARD CLEANOUT
ENFR∆I	ABBREVIATIONS:
E	ARCHITECT/ENGINEER
E BV	ABOVE
F	ABOVE FINISH FLOOR
G	ABOVE FINISHED GRADE
G	ABOVE FINISHED GRADE
.T PROX	ALTERNATE APPROXIMATELY
	ARCHITECT
/G	AVERAGE
G	BELOW FINAL GRADE
.DG .G	BUILDING CEILING
.G EG-F, °F	DEGREES FAHRENHEIT
R	DIRECT
SC	DISCONNECT
1	DOWN

DL0-1, 1	
DIR	DIRECT
DISC	DISCONNECT
DN	DOWN
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION REFERENCE
EM	EMERGENCY
EP	EXPLOSION PROOF
	FLUSH
FBO	FURNISHED BY OTHERS
FIXT	FIXTURE
FLA	FULL LOAD AMPS
FLR	FLOOR
FP	FIRE PROTECTION
FS	FLOW SWITCH
GC	GENERAL CONTRACTOR
GRD	GROUND
GYP	GYPSUM BOARD
	HEATING & VENTILATING - AIR
IIVAO	CONDITIONING
HVC	HEATING VENTILATING
	CONTRACTOR
HW	HEAVYWALL
ID	INDIRECT
IE	INVERT ELEVATION
IL	INTERLOCK
IU	IN UNIT
J-BOX	JUNCTION BOX
LG	LAY-IN GRID
LTG	LIGHTING
LV	LOW VOLTAGE
LVT	LINE VOLTAGE THERMOSTAT
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
	NOT APPLICABLE
N/A	
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
RM	ROOM
RQD	REQUIRED
SF	SQUARE FEET

SPECIFICATION(S)

TAMPER SWITCH

UNDERGROUND

UNLESS NOTED OTHERWISE

SURFACE

TYPICAL

SPEC

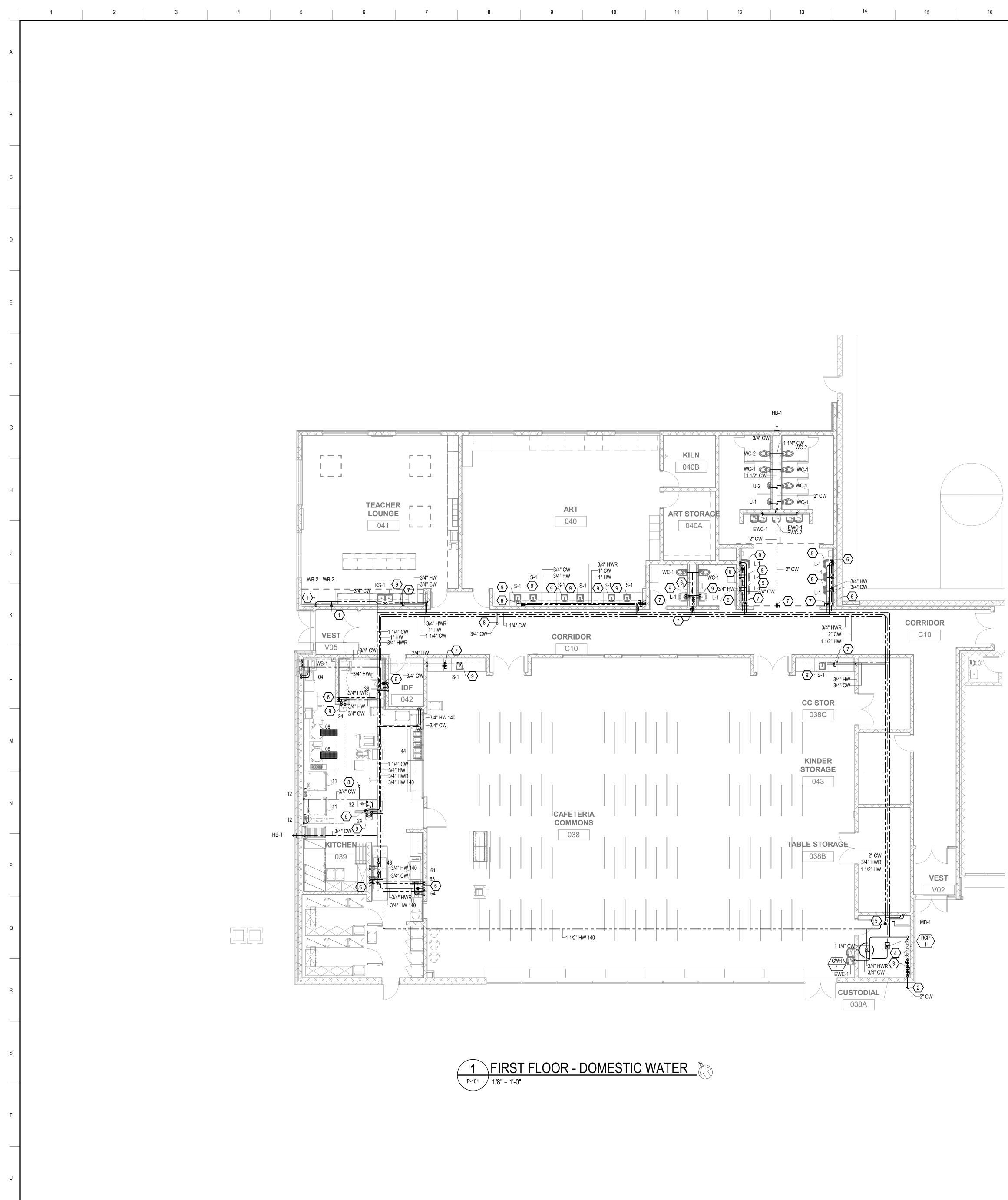
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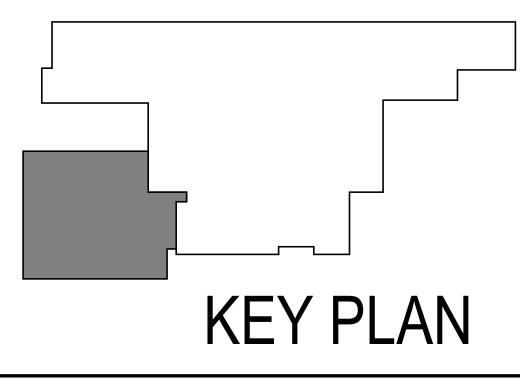




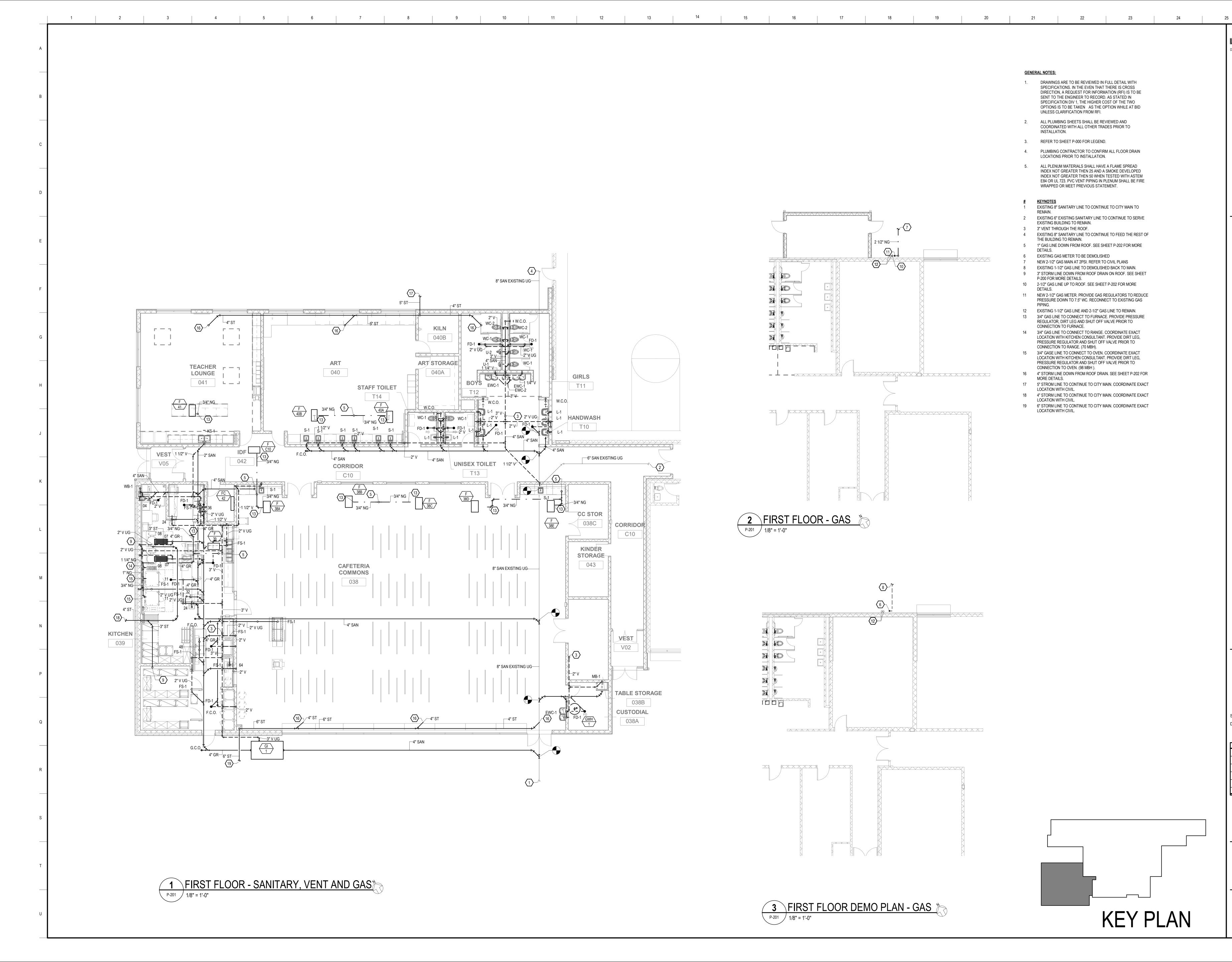
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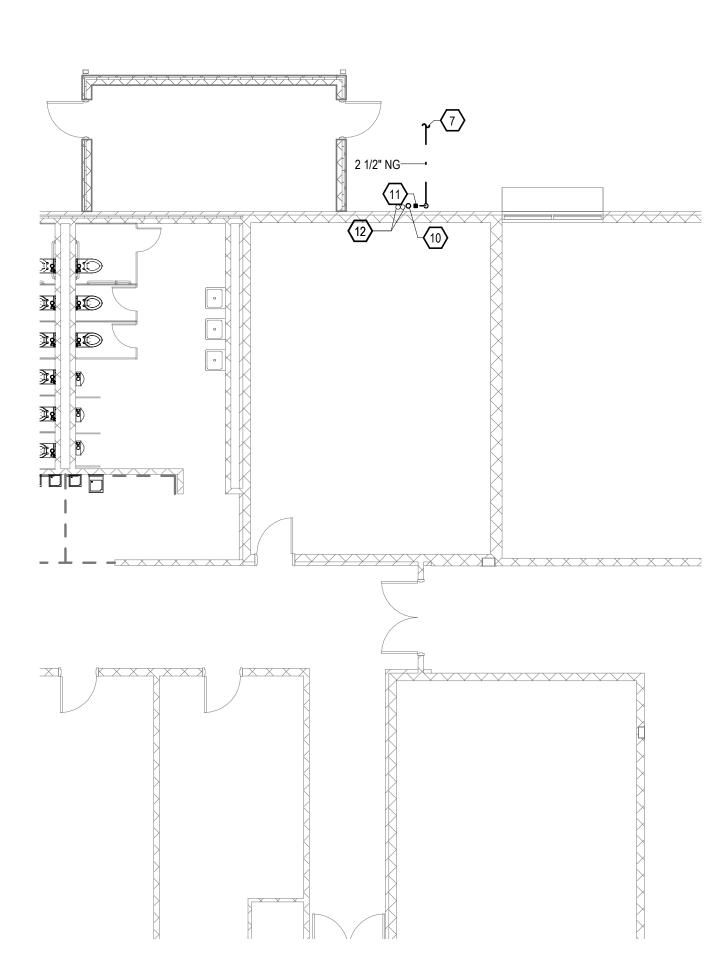
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	OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID
	UNLESS CLARIFICATION FROM RFI.

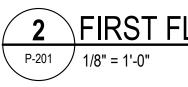
- ALL PLUMBING SHEETS SHALL BE REVIEWED AND 2 COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
- REFER TO SHEET P-000 FOR LEGEND. 3.
- PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAIN 4. LOCATIONS PRIOR TO INSTALLATION. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD 5.
- INDEX NOT GREATER THEN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THEN 50 WHEN TESTED WITH ASTEM E84 OR UL 723. PVC VENT PIPING IN PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT. **KEYNOTES**
- 3/4" COLD WATER LINE DOWN TO REF-1 PROVIDE BACKFLOW PREVENTER. BACKFLOW PREVENTER TO BE SIMILAR TO WATTS SERIES LF7R 3/4" VALVE.
- 2 NEW 2" CW LINE TO CONTINUE TO CITY MAIN. COORDINATE EXACT LOCATION WITH CIVIL.
- CW METER ASSEMBLY
- BACK FLOW PREVENTER. 3-WAY VALVE.
- BALANCING VALUE TO BE INSTALLED ON HOT WATER RETURN LINE
- BEFORE CONNECTION TO HOT WATER LINE. DOMESTIC WATER SHUT OFF VALVE . 7
- 3/4" CW LINE UP TO ROOF HYDRANT ON ROOF. SEE SHEET P-202 FOR MORE DETAILS
- PROVIDE A.S.S.E 1070 APPROVED TMV TO SUPPLY A MAX OF 110 DEGREE HOT WATER FOR PUBLIC LAVATORIES/SINKS TO ENSURE SCOLDING WILL NOT OCCUR..



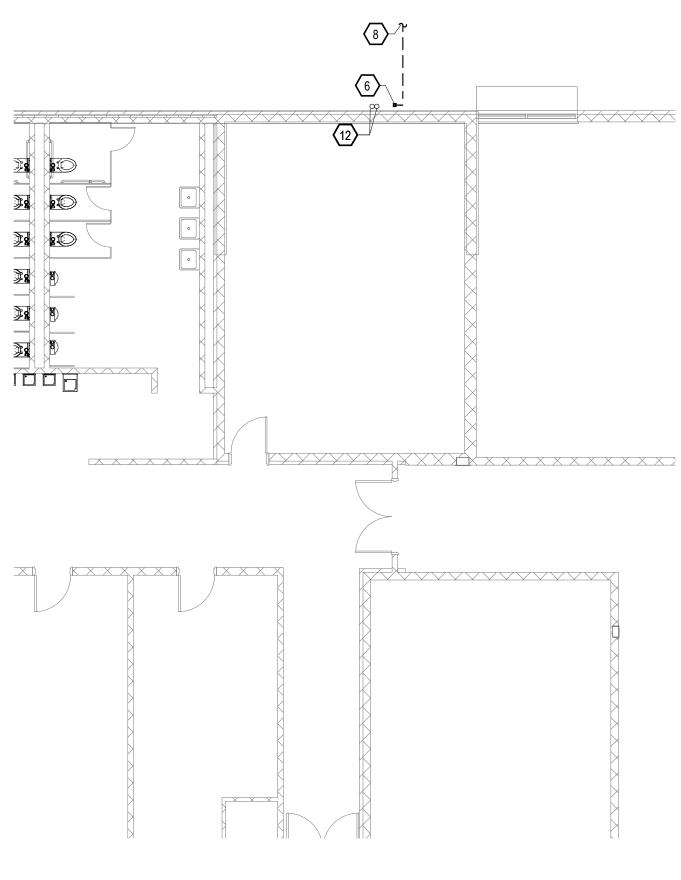


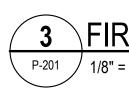


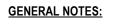




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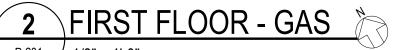




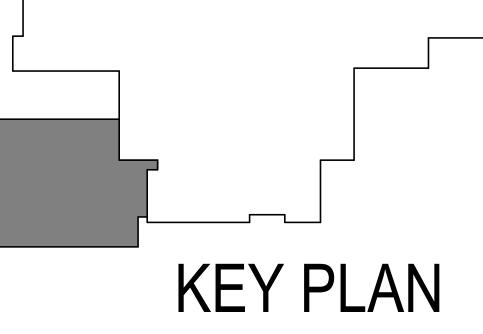
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KEYNOTES

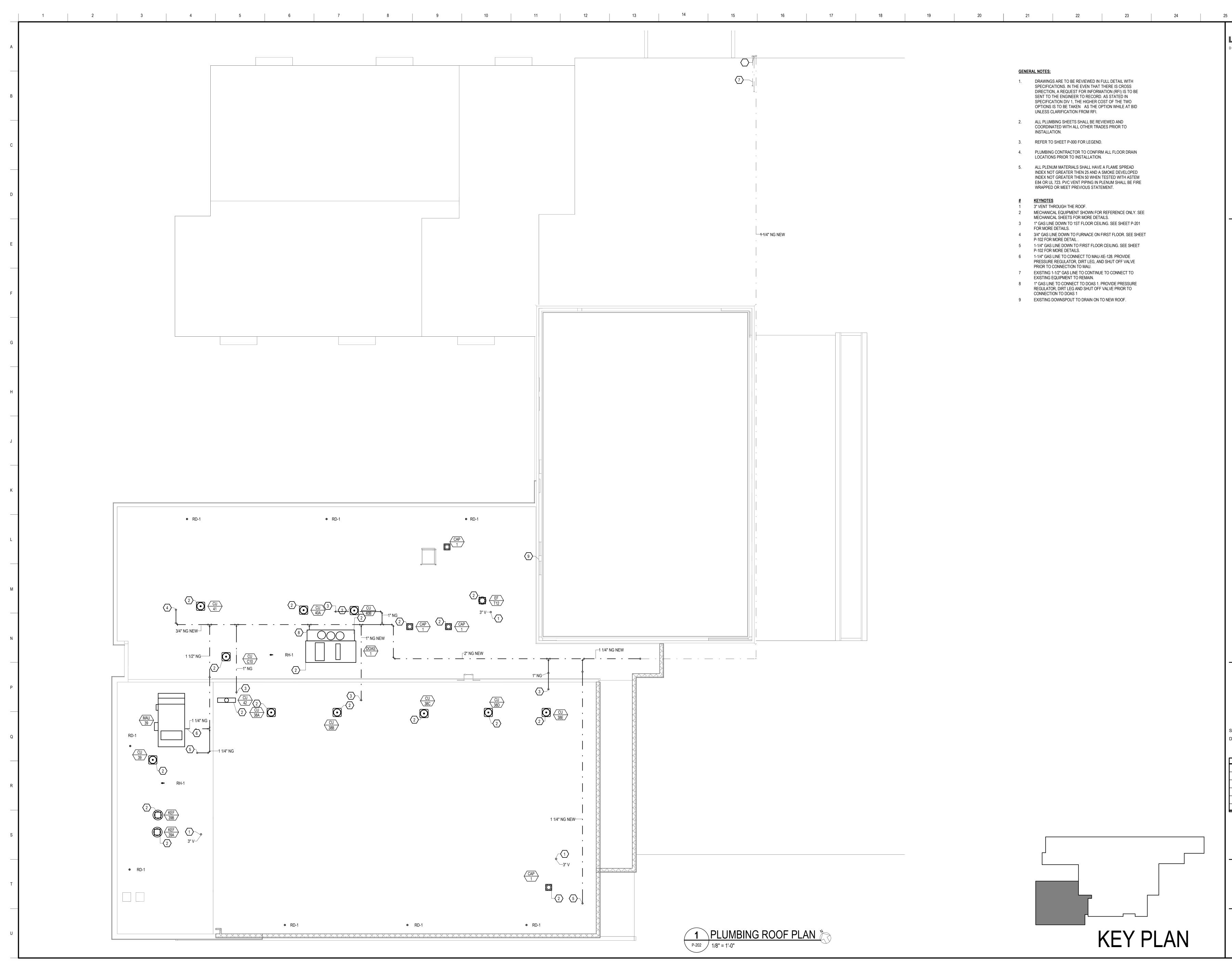
- EXISTING 8" SANITARY LINE TO CONTINUE TO CITY MAIN TO REMAIN. 2 EXISTING 6" EXISTING SANITARY LINE TO CONTINUE TO SERVE
- EXISTING BUILDING TO REMAIN. 3 3" VENT THROUGH THE ROOF. 4 EXISTING 8" SANITARY LINE TO CONTINUE TO FEED THE REST OF
- THE BUILDING TO REMAIN. 5 1" GAS LINE DOWN FROM ROOF. SEE SHEET P-202 FOR MORE
- DETAILS. EXISTING GAS METER TO BE DEMOLISHED
- NEW 2-1/2" GAS MAIN AT 2PSI. REFER TO CIVIL PLANS
- EXISTING 1-1/2" GAS LINE TO DEMOLISHED BACK TO MAIN.
- 9 3" STORM LINE DOWN FROM ROOF DRAIN ON ROOF. SEE SHEET P-200 FOR MORE DETAILS.
- 10 2-1/2" GAS LINE UP TO ROOF. SEE SHEET P-202 FOR MORE DETAILS. 11 NEW 2-1/2" GAS METER. PROVIDE GAS REGULATORS TO REDUCE
- PRESSURE DOWN TO 7.5" WC. RECONNECT TO EXISTING GAS PIPING.
- 12 EXISTING 1-1/2" GAS LINE AND 2-1/2" GAS LINE TO REMAIN. 13 3/4" GAS LINE TO CONNECT TO FURNACE. PROVIDE PRESSURE REGULATOR, DIRT LEG AND SHUT OFF VALVE PRIOR TO CONNECTION TO FURNACE.
- 14 3/4" GAS LINE TO CONNECT TO RANGE. COORDINATE EXACT LOCATION WITH KITCHEN CONSULTANT. PROVIDE DIRT LEG, PRESSURE REGULATOR AND SHUT OFF VALVE PRIOR TO CONNECTION TO RANGE. (70 MBH).
- 15 3/4" GASE LINE TO CONNECT TO OVEN. COORDINATE EXACT LOCATION WITH KITCHEN CONSULTANT. PROVIDE DIRT LEG, PRESSURE REGULATOR AND SHUT OFF VALVE PRIOR TO CONNECTION TO OVEN. (98 MBH).
- 16 4" STORM LINE DOWN FROM ROOF DRAIN. SEE SHEET P-202 FOR MORE DETAILS.
- 17 5" STROM LINE TO CONTINUE TO CITY MAIN. COORDINATE EXACT LOCATION WITH CIVIL.
- 18 4" STORM LINE TO CONTINUE TO CITY MAIN. COORDINATE EXACT
- LOCATION WITH CIVIL. 19 6" STORM LINE TO CONTINUE TO CITY MAIN. COORDINATE EXACT LOCATION WITH CIVIL.



3 FIRST FLOOR DEMO PLAN - GAS



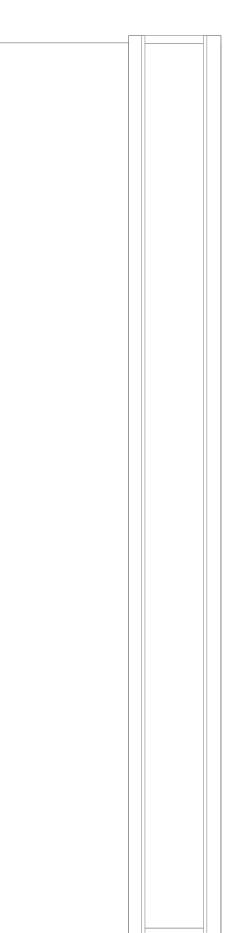


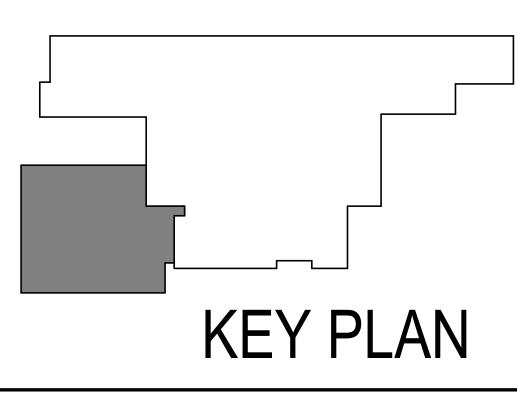


- 1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVEN THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER TO RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
- 2. ALL PLUMBING SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
- 3. REFER TO SHEET P-000 FOR LEGEND.
- 4. PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAIN LOCATIONS PRIOR TO INSTALLATION.
- 5. ALL PLENUM MATERIALS SHALL HAVE A FLAME SPREAD INDEX NOT GREATER THEN 25 AND A SMOKE DEVELOPED INDEX NOT GREATER THEN 50 WHEN TESTED WITH ASTEM E84 OR UL 723. PVC VENT PIPING IN PLENUM SHALL BE FIRE WRAPPED OR MEET PREVIOUS STATEMENT.

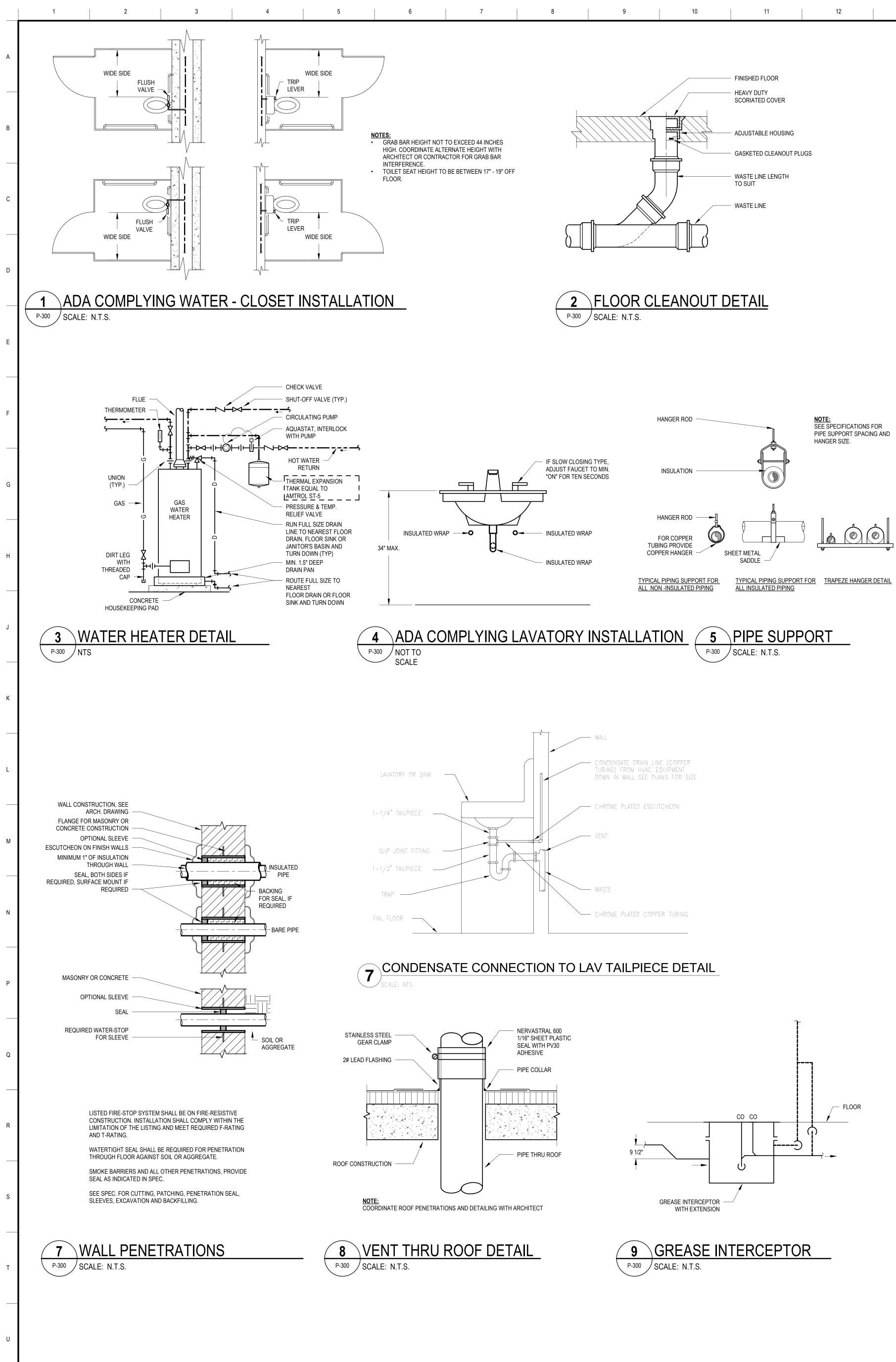
KEYNOTES 3" VENT THROUGH THE ROOF.

- MECHANICAL EQUIPMENT SHOWN FOR REFERENCE ONLY. SEE 2 MECHANICAL SHEETS FOR MORE DETAILS.
- 1" GAS LINE DOWN TO 1ST FLOOR CEILING. SEE SHEET P-201 3 FOR MORE DETAILS.
- 4 3/4" GAS LINE DOWN TO FURNACE ON FIRST FLOOR. SEE SHEET P-102 FOR MORE DETAIL .
- 5 1-1/4" GAS LINE DOWN TO FIRST FLOOR CEILING. SEE SHEET P-102 FOR MORE DETAILS.
- 6 1-1/4" GAS LINE TO CONNECT TO MAU-XE-128. PROVIDE PRESSURE REGULATOR, DIRT LEG, AND SHUT OFF VALVE
- PRIOR TO CONNECTION TO MAU. 7 EXISTING 1-1/2" GAS LINE TO CONTINUE TO CONNECT TO
- EXISTING EQUIPMENT TO REMAIN. 8 1" GAS LINE TO CONNECT TO DOAS 1. PROVIDE PRESSURE
- REGULATOR, DIRT LEG AND SHUT OFF VALVE PRIOR TO CONNECTION TO DOAS 1
- 9 EXISTING DOWNSPOUT TO DRAIN ON TO NEW ROOF.



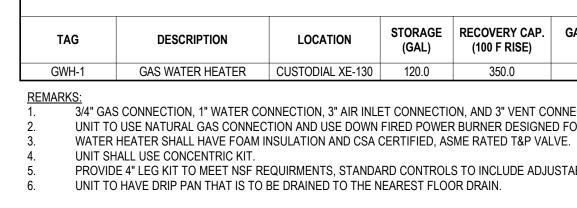






	CEMENT BED LOOSE GRAVEL AT WEEP HOLES	NICKLE BRONZE WATERP ADJUSTABLE MEMBRA STRAINER
	FLASHING CLAMP WITH WEEP HOLES	AULKED OR NECTION
	PROVIDE A METAL WHEN DRAIN IS INS EXISTING FLOOR - DRAIN PRIOR TO R	SUPPORT PLATE STALLED IN AN CAULK AROUND
P-300 SCALE: N.T.	.S.	

		EIVTUDE												
		FIXIURE	UNIT SCH									_		
TAG	DESCRIPTION	WASTE	CONNECTION VENT	ON SIZE (IN) CW	HW	D FIXTURE	FU TOTAL	CWFU FIXTURE	HWFU FIXTURE	FIXTURE	L WSFU TOTAL	MANUFACTURER	MODEL NO.	REMARKS
04	MOP BASIN	3"	1 1/2"	1/2"	1/2"	2	10TAL 3	2	2	3	3			COORDINATE WITH KITCHEN DRAWINGS
07	TRENCH DRAIN	3"	2"	0"	0"	6	12	0	0	0	0			COORDINATE WITH KITCHEN DRAWINGS
08	KETTLE	1 1/2"	0"	3/4"	0"	1	2	0.5	0	0.5	1			COORDINATE WITH KITCHEN DRAWINGS
11	COMBIOVEN	1"	0"	0"	0"	1	2	0	0	0	0	-	-	COORDINATE WITH KITCHEN DRAWINGS
12	WATER FILTER	1 1/2"	0"	3/4"	0"	1	2	0.5	0	0.5	1	-	_	COORDINATE WITH KITCHEN DRAWINGS
24	HAND SINK	1 1/2"	1 1/2"	1/2"	1/2"	2	4	1	1	1.5	3	-	_	COORDINATE WITH KITCHEN DRAWINGS
32	WORK TABLE WITH SINK	1 1/2"	1 1/2"	1/2"	1/2"	2	2	1	1	1.5	1.5	-	-	COORDINATE WITH KITCHEN DRAWINGS
36	WORKTABLE WITH SINK	1 1/2"	1 1/4"	1/2"	1/2"	2	2	1.5	1.5	2	2	-	-	COORDINATE WITH KITCHEN DRAWINGS
44	HOT SERVING COUNTER	1 1/2"	0"	3/4"	3/4"	1	1	0.5	0	0.5	0.5	-	-	COORDINATE WITH KITCHEN DRAWINGS
48	TRIPLE BASIN SINK	0"	0"	0"	0"	0	0	0	0	0	0	-	-	COORDINATE WITH KITCHEN DRAWINGS
61	DISHWASHER WITH BOOSTER HEATER	3"	2"	0"	1/2"	4	4	0	1	1	1	-	-	COORDINATE WITH KITCHEN DRAWINGS
63	HOSE REEL	1 1/2"	1 1/4"	1/2"	1/2"	1	1	0.5	0.5	1	1	-	-	COORDINATE WITH KITCHEN DRAWINGS
64	DISH TABLE	1 1/2"	1 1/2"	1/2"	1/2"	2	2	1	1	1.5	1.5	-	-	COORDINATE WITH KITCHEN DRAWINGS
EWC-1	ELECTRIC DRINKING FOUNTAIN - SURFACE MOUNTED, DOUBLE BASIN, ADA, BOTTLE FILLER	1 1/4"	1 1/4"	1/2"	0"	1	3	0.5	0	0.5	1.5	ELKAY	LZSTL8WSLP	ADA COMPLIANT, DOUBLE DRINKING FOUTAIN TO BE MOUNTED AT ADA HEIGHT, ELECTRIC WATER COOLI TO INCLUDE BOTTLE FILLING STATION
EWC-2	ELECTRIC DRINKING FOUNTAIN - SURFACE MOUNTED, SINGLE BASIN, BOTTLE FILLER	1 1/4"	1 1/4"	1/2"	0"	1	1	0.25	0	0.25	0.25	ELKAY	LZS8WSLK	ADA COMPLAINT, SINGLE DRINKING DRINKING FOUNTAIN TO BE MOUNTED AT ADA HEIGHT, TO BE PROVIDED WITH BOTTLE FILLING STATION
FD-1	FLOOR DRAIN	4"	2"	0"	0"	6	78	0	0	0	0	SIOUX CHIEF	832	CAST IRON, ADJUSTABLE, CAULK RIM TO ADJACENT FLOOR MATERIAL
FS-1	FLOOR SINK - TOP STRAINER WITH HOLE, FINISHED FLOORS	2"	1 1/2"	0"	0"	3	27	0	0	0	0	JR SMITH	3100	CAST IRON
HB-1	EXTERIOR HOSE BIBB, WITH VACUUM BREAKER, FREEZELESS, WALL MOUNT	0"	0"	3/4"	0"	0	0	4	0	0	0	WOODFORD	B65	FROST PROFF CONCEALED WALL HOSE BIB WITH LOCKABLE BRASS BOX FLUSH WITH EXTERIOR WALL
KS-1	KITCHEN SINK - UNDER MOUNT	1 1/2"	1 1/4"	1/2"	1/2"	2	2	1.5	1.5	2	2	ELKAY	ELUHAD36185	5 ADA, DOUBLE BOWL, FAUCET TO BE MOEN 87201, DRAINS TO BE OFFSET, 1.5 GPM, PROVIDE WITH ASS APPROVED TMV.TMV TO BE SET AT 110F
L-1	LAVATORY - WALL MOUNT, VITREOUS CHINA, WIDESPREAD FAUCET, ADA	1 1/4"	1 1/4"	1/2"	1/2"	1	8	1	1	1.5	12	ZURN	Z5344	ADA COMPLIANT, WALL MOUNT, MAX DEPTH OF 6-1/2 FAUCET TO BE MOEN 87859, MANUAL .5 GPM PROVI A.S.S.E APPROVED TMV.TMV TO SET TO 110F.
MB-1	MOP BASIN - TERRAZZO	3"	1 1/2"	1/2"	1/2"	3	3	2	2	3	3	FIAT	MSB36"X24"	36""X24" MOP BASIN, FAUCET TO BE FIAT 830AA
RD-1	ROOF DRAIN	4"	0"	0"	0"	0	0	0	0	0	0	JR SMITH	1010	CAST IRON BODY AND DOME
RH-1	ROOF HYDRANT	0"	0"	1"	0"	0	0	0.25	0	0.25	0.5	WOODFORD	SRH-MS	FREEZELESS, DRAINLESS ROOF MOUNTED HOSE BII
S-1	SINK, UNDERMOUNT	1 1/2"	1 1/2"	1/2"	1/2"	2	16	1	1	1.5	12	ELKAY	ELUH1316PD	ADA, SINGLE BOWL, UNDERMOUNT FAUCET TO BE MOEN. 87859 PROVIDE WITH A.S.S.E APPROVED TM .TMV TO BE SET FOR 110F
U-1	URINAL - WALL MOUNT, ADA	2"	1 1/2"	3/4"	0"	2	2	4	0	4	4	ZURN	Z5755	VITEROUS CHINA FINISH TO BE WHITE. FLUSH VALVI TO BE. ZURN Z6003AV, MANUAL, 1 GPF
U-2	URINAL - WALL MOUNT,	2"	1 1/2"	3/4"	0"	2	2	4	0	4	4	ZURN	Z5755	VITEROUS CHINA FINISH TO BE WHITE. FLUSH VALVI TO BE. ZURN Z6003AV MANUAL, 1GPF
WB-1	WASHER BOX	2"	1 1/4"	1/2"	1/2"	3	3	1.5	1.5	2	2	SIOUX CHIEF	OXBOX	PLASTIC WITH CW AND HW VALVES
WB-2	REFRIGERATOR WITH WALLBOX AND BACKFLOW PREVENTOR	2"	2"	1/2"	0"	0	0	1	0	0	0	SIOUX CHIEF	OXBOX	PROVIDE WITH BACKFLOW PREVENTOR.PROVIDE W ICE MAKER OUTLET BOX. PROVIDE WITH CW VALE.
WC-1	WATER CLOSET - FLOOR MOUNT,ADA	3"	1 1/2"	1/2"	0"	6	36	3	0	8	48	ZURN	Z5665-BWL1	VITEROUS CHINA, FLOOR MOUNT, FINISH TO BE WHI PROVIDE OPEN FRONT SEAT, FLUSH VALVE TO BE ZURN Z600AV, MANUAL, 1.28 GPF
WC-2	WATER CLOSET - FLOOR MOUNT,	3"	1 1/2"	1/2"	0"	6	12	3	0	8	16	ZURN	Z5655-BWL1	ADA, VITEROUS CHINA, FLOOR MOUNT, FINISH TO BE WHITE, PROVIDE OPEN FRONT SEAT, FLUSH VALVE BE ZURN Z600AV, MANUAL, 1.28 GPF
						_	230	_			120.75		I	, , ,



			CAPA	CAPACITY				
TAG	SERVICE	TYPE	LIQUID (GAL)	WASTE (LB)	(LBS)	MANUFACTURER	MODEL NO.	REMARK
3 I -1	KITCHEN	GRAVITY	1000.0	5040.00	2200	ROCKFORD SEPARATORS	RGI-1000	ALL

ILEM/IIIIO.
1. COORDINATE EXACT LOCATION AND DEPTH WITH CIVIL PLANS.

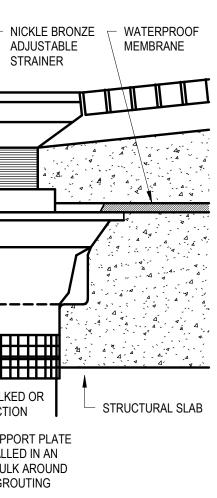
					PUMP SO	CHEDU	E						
TAG	LOCATION	ТҮРЕ	CAPACITY (GPM)	PUMP HEAD (FT)		ELECT	RICAL DA	TA		WEIGHT	MANUFACTURER	MODEL NO.	REMARKS
IAG	LOCATION	1115	CAFACITT (GFWI)		RPM	HP	V	PH	HZ	(LBS)	WANDFACTURER	MODEL NO.	
RCP-1	CUSTODIAL XE-130	RECIRCULATION	10	25	1450	0.17	120	1	60	17	BELL AND GOSSET	PL-45	ALL
REMARKS: 1. LABEL ALL PUN	MPS												

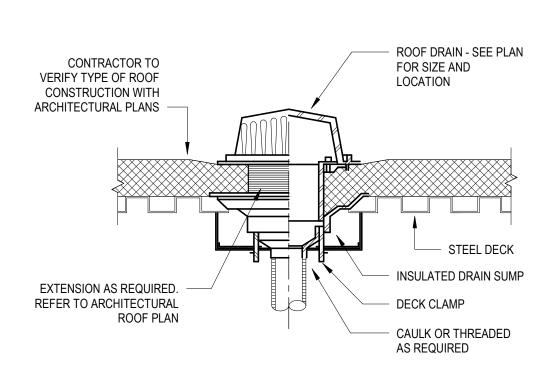
2. INLINE PUMPS TO BE SUPPORTED BY PIPING, AND/OR HUNG FROM UNSTRUCT WITH VIBRATION HANGING RODS. 3. CONTRACTOR TO VERIFY FINAL HEAD PRESSURE AND PUMP SELECTION WITH ACTUAL FIELD CONDITIONS.

				W	IATER H	DULE									
RIPTION	LOCATION	STORAGE	RECOVERY CAP.	GAS INPUT	ELECTRICAL DATA				FLUE CONNECTION	CA INTAKE DIA.	MANUFACTURER	MODEL NO.	TEMP. SET	WEIGHT	REMARKS
		(GAL)	(100 F RISE)	(MBH)	VOLTS	PHASE	HZ	AMPS	DIA. (IN)	(IN)			POINT (F)	(LBS)	
ER HEATER	CUSTODIAL XE-130	120.0	350.0	300	120	1	60	5	4	4	AO SMITH	BTH-300MXI	140	855	ALL

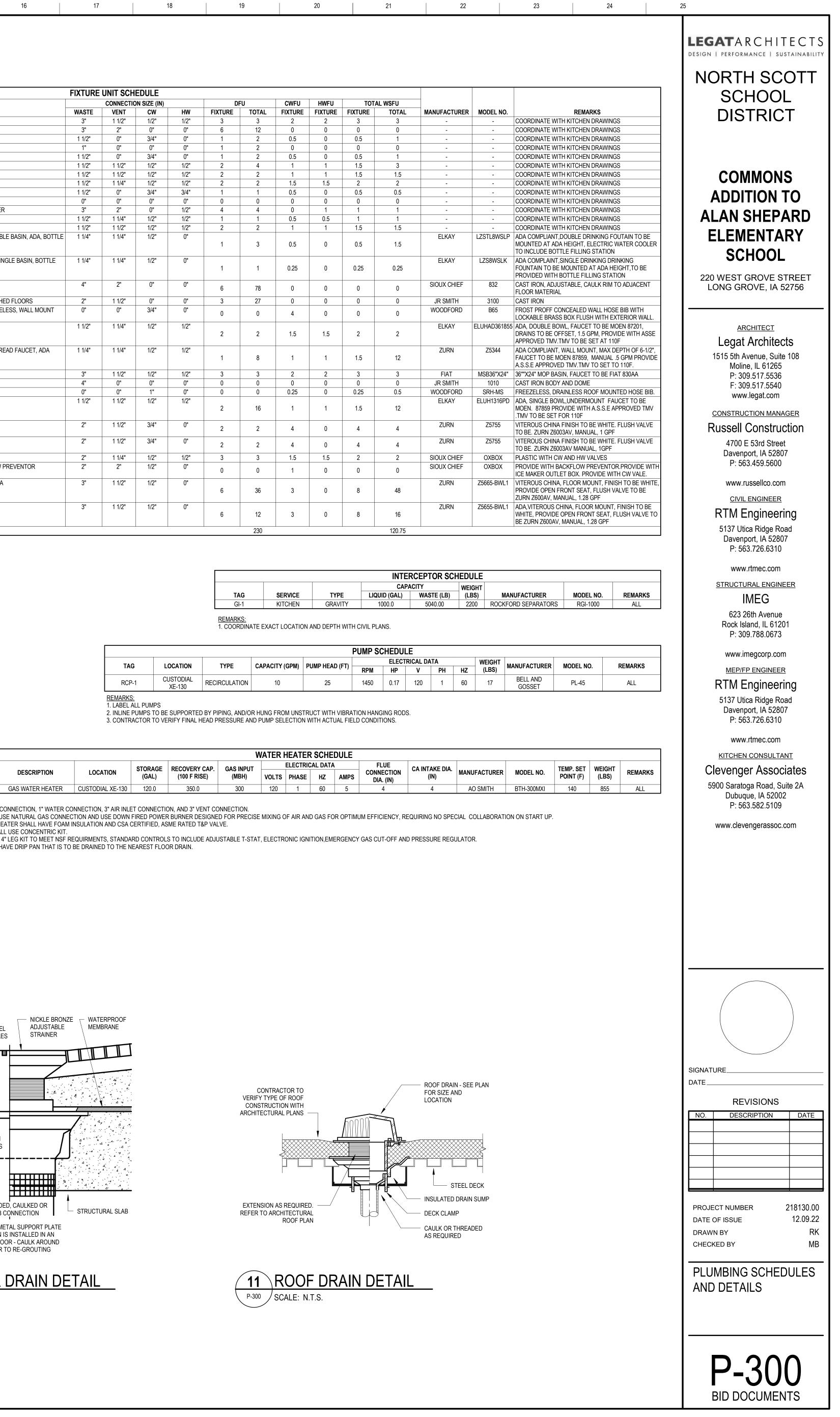
3/4" GAS CONNECTION, 1" WATER CONNECTION, 3" AIR INLET CONNECTION, AND 3" VENT CONNECTION. UNIT TO USE NATURAL GAS CONNECTION AND USE DOWN FIRED POWER BURNER DESIGNED FOR PRECISE MIXING OF AIR AND GAS FOR OPTIMUM EFFICIENCY, REQUIRING NO SPECIAL COLLABORATION ON START UP.

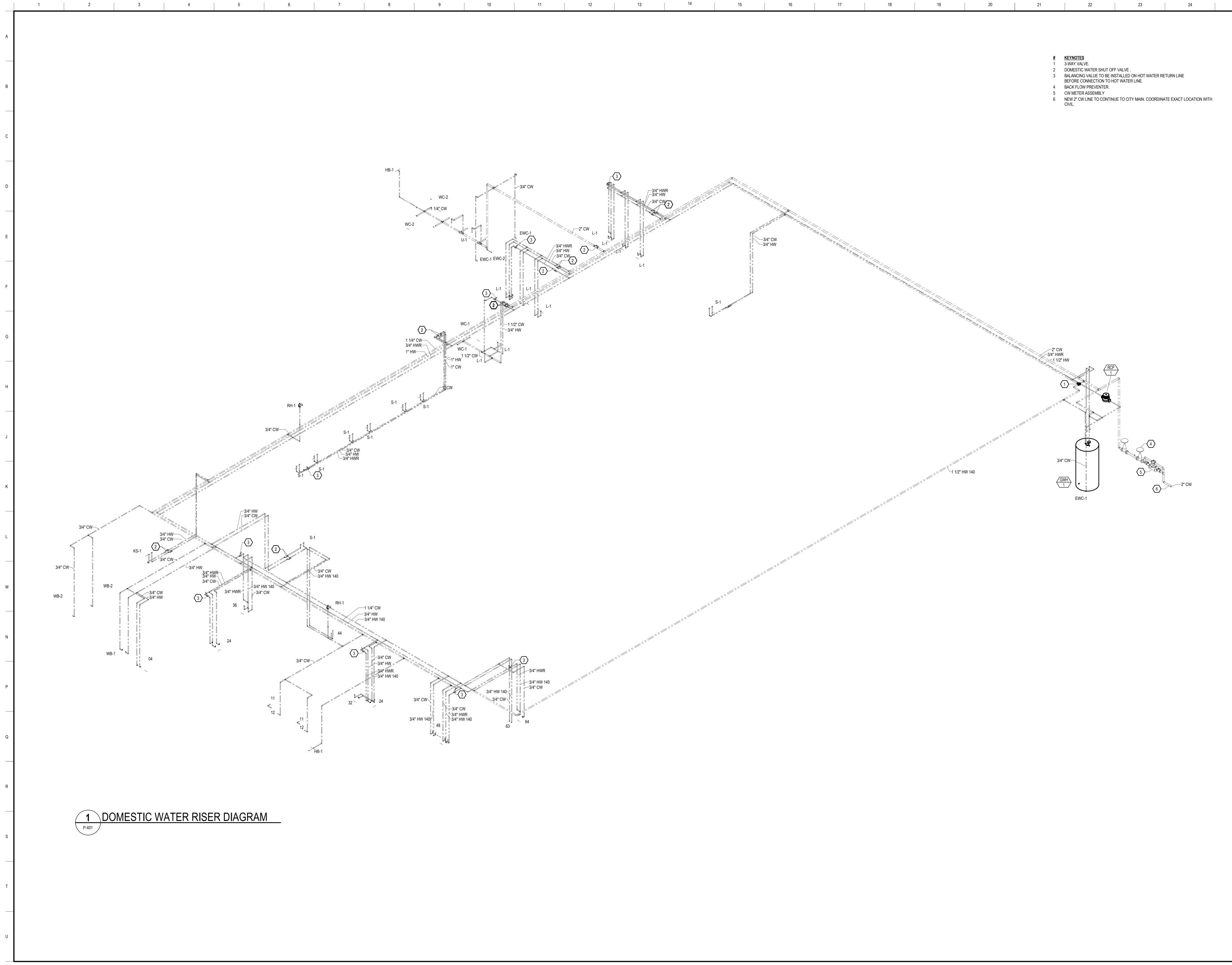
PROVIDE 4" LEG KIT TO MEET NSF REQUIRMENTS, STANDARD CONTROLS TO INCLUDE ADJUSTABLE T-STAT, ELECTRONIC IGNITION, EMERGENCY GAS CUT-OFF AND PRESSURE REGULATOR.



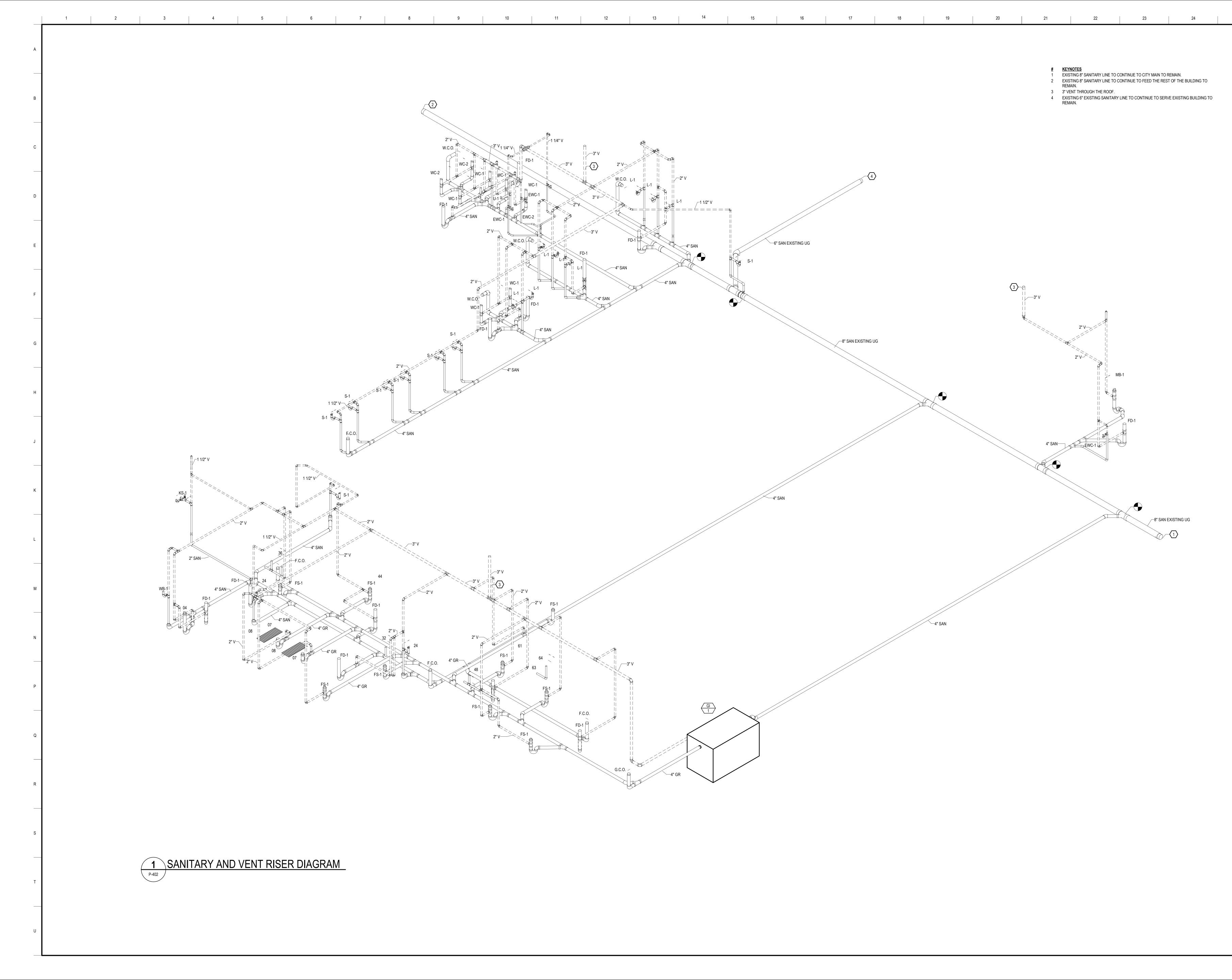








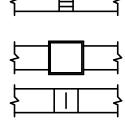






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	EVETEME:	
	<u>SYSTEMS:</u>	
(FD-#) Y	BACKDRAFT DAMPER	
(SD-#) 4	FIRE DAMPER	
	SMOKE DAMPER	G GAS
(FSD-#) 9	COMBINATION FIRE SMOKE DAMPER	
(MD-#)	MOTORIZED DAMPER	(NO) NITROG (P) RELATIN
	VOLUME DAMPER	(R) REFRIG
' _	SIDEWALL GRILLE	SD SMOKE
	CEILING DIFFUSER, SUPPLY	SP STATIC
	4-WAY BLOW PATTERN	
	CEILING DIFFUSER, SUPPLY 3-WAY BLOW PATTERN	(TS) TEMPER
	CEILING DIFFUSER, SUPPLY 2-WAY BLOW PATTERN	ME
	CEILING DIFFUSER, SUPPLY 1-WAY BLOW PATTERN	
	CEILING DIFFUSER, RETURN	
\square	CEILING DIFFUSER, EXHAUST	TYPE: S - SUPPLY
	DOOR UNDERCUT	R - RETURN E - EXHAUST T - TRANSFER
\bowtie	DUCT SECTION, SUPPLY	<u>X# (#</u>
	DUCT SECTION, RETURN	AIR FLOW RATE
\square	DUCT SECTION, EXHAUST	MARK
HH++++++++++	FLEXIBLE DUCT	
	DIRECTION OF AIR FLOW	
	DUCT SIZE TRANSITION	
	RECTANGULAR ELBOW DOWN - SINGLE LINE	##"
	ROUND ELBOW DOWN - SINGLE LINE	SYSTEM ABBREVIATION
	RECTANGULAR ELBOW UP - SUPPLY	G
	RECTANGULAR ELBOW DOWN - SUPPLY	0
	ROUND ELBOW UP - SUPPLY	
	ROUND ELBOW DOWN - SUPPLY	
	RECTANGULAR ELBOW UP - RETURN	
	RECTANGULAR ELBOW DOWN - RETURN	
	ROUND ELBOW UP - RETURN	
	ROUND ELBOW DOWN - RETURN	SHEET NU
	RECTANGULAR ELBOW UP - EXHAUST	
	RECTANGULAR ELBOW DOWN - EXHAUST	
	ROUND ELBOW UP - EXHAUST	
	ROUND ELBOW DOWN - EXHAUST	
	MITERED ELBOW	SHEET NU
	MITERED ELBOW WITH TURNING VANES	-´/
	ACCESS DOOR - TOP/SIDE	SHEET NU
╞───┤	AIR FLOW MEASURING STATION	+X' - X"
	-	



SOUND ATTENUATOR

FLEXIBLE CONNECTION

8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

ALT ARCH BFG BLDG

FBO FIXT FLA

FLR

FS

GC GRD

GYP

HC HVAC

ΗW

ID

IU J-BOX

LG

LTG

LVT

MC

MCA

MOCP

MTD

NIC NTS

PLBG

RM

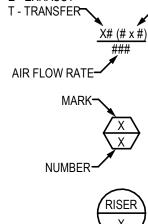
SURF

LV

<u>HVAC S</u>	ENSORS:
02	CARBON DIOXIDE
\bigcirc	CARBON MONOXIDE
DS	DEWPOINT
G	GAS
Н	HUMIDITY
NO	NITROGEN OXIDE
P	RELATIVE PRESSURE MONITOR
R	REFRIGERANT MONITOR
SD	SMOKE DETECTOR
SP	STATIC PRESSURE
Ţ	THERMOSTAT
TS	TEMPERATURE

MECHANICAL TAGS:

		IMENSION
Ł	## x ## XX	DUCT DIMENSIONS (CLEAR, INTERNAL)
•	SYSTEM	ABBREVIATION



DIFFUSER TAG MECHANICAL EQUIPMENT TAG

RISER TAG

SIZE (OPTIONAL)

##" XX PIPE DIMENSION TAG

POINT OF NEW CONNECTION POINT OF DISCONNECTION

<u>GENERAL:</u>

DRAWING KEYNOTE SYMBOL / DETAIL NUMBER BUILDING SECTION - SHEET NUMBER - DETAIL NUMBER

BUILDING ELEVATION SHEET NUMBER / DETAIL NUMBER

CALLOUT BOUNDARY

SHEET NUMBER - DETAIL NUMBER

.._

VIEW REFERENCE CALLOUT

SHEET NUMBER

MOUNTING HEIGHT DESIGNATION +X' - X"

DUCT SYSTEM ABBREVIATIONS:

CA	COMBUSTION AIR
CV	COMBUSTION VENT
EA-AII	EXHAUST AIR - AIRBORNE
	INFECTIOUS ISOLATION
EA-CH	EXHAUST AIR - CHEMICAL
EA-D	EXHAUST AIR - DRYER
EA	EXHAUST AIR - ENVIRONMENTAL
EA-K1	TYPE 1 - KITCHEN EXHAUST
EA-K2	TYPE 2 - KITCHEN EXHAUST
OA	OUTDOOR AIR
RA	RETURN AIR
SA	SUPPLY AIR

<u> </u>	MECHANICAL ABBREVIATIONS:
AC	AIR CONDITIONER
ACH	AIR CHANGES PER HOUR
AF	AIR FILTER
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CC	COOLING COIL
CF	CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CO	CLEANOUT
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONSTANT AIR VOLUME
DAT	DISCHARGE AIR TEMPERATURE
DB	DECIBEL OR DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DH	DUCT HEATER
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
FA	FREE AREA
FC	FAN COIL
FD	FIRE DAMPER
FH	FUME HOOD
FPB	FAN POWERED BOX
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FS	FREEZE STAT
FSD	COMBINATION FIRE/SMOKE DAMPER
GA	GAUGE
GAL	GALLON
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HUMIDISTAT
HC	HEATING COIL
HD	HOOD OR HEAT DETECTOR
HEPA	HIGH EFFICIENCY PARTICULATE AIR
HP	FILTER HORSEPOWER OR HEAT PUMP
HR	Hour
HUM	Humidifier
HX	HEAT EXCHANGER
HZ	HERTZ
IN W.C.	INCHES WATER COLUMN
IN W.G.	INCHES WATER GAUGE
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTUH
NC	NORMALLY CLOSED
NK	NECK
NO	NORMALLY OPEN
P	PUMP
PA	PASCAL
PH	PHASE
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG RF	POUNDS PER SQAURE INCH GAUGE
RH	
	RETURN FAN RELATIVE HUMIDITY
RHC RO	RETURN FAN RELATIVE HUMIDITY REHEAT COIL RELIEF OPENING
RHC	RETURN FAN RELATIVE HUMIDITY REHEAT COIL
RHC	RETURN FAN
RO	RELATIVE HUMIDITY
RPM	REHEAT COIL
SAT	RELIEF OPENING
SD	REVOLUTIONS PER MINUTE
RHC RO RPM SAT	RETURN FAN RELATIVE HUMIDITY REHEAT COIL RELIEF OPENING REVOLUTIONS PER MINUTE SUPPLY AIR TEMPERATURE SMOKE DAMPER OR SMOKE
RHC RO RPM SAT SD SF	RETURN FAN RELATIVE HUMIDITY REHEAT COIL RELIEF OPENING REVOLUTIONS PER MINUTE SUPPLY AIR TEMPERATURE SMOKE DAMPER OR SMOKE DETECTOR SQUARE FEET OR SUPPLY FAN
RHC RO RPM SAT SD SF SPS T TD TO	RETURN FAN RELATIVE HUMIDITY REHEAT COIL RELIEF OPENING REVOLUTIONS PER MINUTE SUPPLY AIR TEMPERATURE SMOKE DAMPER OR SMOKE DETECTOR SQUARE FEET OR SUPPLY FAN STATIC PRESSURE SENSOR THERMOSTAT TEMPERATURE DIFFERENCE TRANSFER OPENING
RHC RO RPM SAT SD SF SPS T TD TO TYP UC	RETURN FAN RELATIVE HUMIDITY REHEAT COIL RELIEF OPENING REVOLUTIONS PER MINUTE SUPPLY AIR TEMPERATURE SMOKE DAMPER OR SMOKE DETECTOR SQUARE FEET OR SUPPLY FAN STATIC PRESSURE SENSOR THERMOSTAT TEMPERATURE DIFFERENCE TRANSFER OPENING TYPICAL UNDERCUT (DOOR)
RHC RO RPM SAT SD SF SPS T TD TO TYP UC UH VAV	RETURN FAN RELATIVE HUMIDITY REHEAT COIL RELIEF OPENING REVOLUTIONS PER MINUTE SUPPLY AIR TEMPERATURE SMOKE DAMPER OR SMOKE DETECTOR SQUARE FEET OR SUPPLY FAN STATIC PRESSURE SENSOR THERMOSTAT TEMPERATURE DIFFERENCE TRANSFER OPENING TYPICAL UNDERCUT (DOOR) UNIT HEATER VARIABLE AIR VOLUME
RHC RO RPM SAT SD SF SPS T TD TO TYP UC UH VAV VD VFD	RETURN FAN RELATIVE HUMIDITY REHEAT COIL RELIEF OPENING REVOLUTIONS PER MINUTE SUPPLY AIR TEMPERATURE SMOKE DAMPER OR SMOKE DETECTOR SQUARE FEET OR SUPPLY FAN STATIC PRESSURE SENSOR THERMOSTAT TEMPERATURE DIFFERENCE TRANSFER OPENING TYPICAL UNDERCUT (DOOR) UNIT HEATER VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE
RHC RO RPM SAT SD SF SPS T TD TO TYP UC UH VAV VD VFD VSD VTR	RETURN FAN RELATIVE HUMIDITY REHEAT COIL RELIEF OPENING REVOLUTIONS PER MINUTE SUPPLY AIR TEMPERATURE SMOKE DAMPER OR SMOKE DETECTOR SQUARE FEET OR SUPPLY FAN STATIC PRESSURE SENSOR THERMOSTAT TEMPERATURE DIFFERENCE TRANSFER OPENING TYPICAL UNDERCUT (DOOR) UNIT HEATER VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE VARIABLE SPEED DRIVE VENT THROUGH ROOF
RHC RO RPM SAT SD SF SPS T TD TO TYP UC UH VAV VD VFD VSD VTR W WB	RETURN FAN RELATIVE HUMIDITY REHEAT COIL RELIEF OPENING REVOLUTIONS PER MINUTE SUPPLY AIR TEMPERATURE SMOKE DAMPER OR SMOKE DETECTOR SQUARE FEET OR SUPPLY FAN STATIC PRESSURE SENSOR THERMOSTAT TEMPERATURE DIFFERENCE TRANSFER OPENING TYPICAL UNDERCUT (DOOR) UNIT HEATER VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE VARIABLE SPEED DRIVE VENT THROUGH ROOF WATT WET BULB TEMPERATURE
RHC RO RPM SAT SD SF SPS T TD TO TYP UC UH VAV VD VFD VSD VTR W	RETURN FAN RELATIVE HUMIDITY REHEAT COIL RELIEF OPENING REVOLUTIONS PER MINUTE SUPPLY AIR TEMPERATURE SMOKE DAMPER OR SMOKE DETECTOR SQUARE FEET OR SUPPLY FAN STATIC PRESSURE SENSOR THERMOSTAT TEMPERATURE DIFFERENCE TRANSFER OPENING TYPICAL UNDERCUT (DOOR) UNIT HEATER VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE VARIABLE SPEED DRIVE VENT THROUGH ROOF WATT
RHC RO RPM SAT SD SF SPS T TD TO TYP UC UH VAV VD VFD VSD VFD VSD VTR W WB WC WPD	RETURN FAN RELATIVE HUMIDITY REHEAT COIL RELIEF OPENING REVOLUTIONS PER MINUTE SUPPLY AIR TEMPERATURE SMOKE DAMPER OR SMOKE DETECTOR SQUARE FEET OR SUPPLY FAN STATIC PRESSURE SENSOR THERMOSTAT TEMPERATURE DIFFERENCE TRANSFER OPENING TYPICAL UNDERCUT (DOOR) UNIT HEATER VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE VARIABLE FREQUENCY DRIVE VARIABLE SPEED DRIVE VARIABLE SPEED DRIVE VENT THROUGH ROOF WATT WET BULB TEMPERATURE WATER COLUMN WATER PRESSURE DROP
RHC	RETURN FAN
RO	RELATIVE HUMIDITY
RPM	REHEAT COIL
SAT	RELIEF OPENING
SD	REVOLUTIONS PER MINUTE
SF	SUPPLY AIR TEMPERATURE
SPS	SMOKE DAMPER OR SMOKE
T	DETECTOR
TD	SQUARE FEET OR SUPPLY FAN
TO	STATIC PRESSURE SENSOR
TYP	THERMOSTAT
UC	TEMPERATURE DIFFERENCE
UH	TRANSFER OPENING
VAV	TYPICAL
VD	UNDERCUT (DOOR)
VFD	UNIT HEATER
VSD	VARIABLE AIR VOLUME
VFD	VOLUME DAMPER
VSD	VARIABLE FREQUENCY DRIVE
VTR	VARIABLE SPEED DRIVE
W	VENT THROUGH ROOF
WB	WATT
WC	WET BULB TEMPERATURE
WPD	WATER COLUMN
RHC RO RPM SAT SD SF SPS T TD TO TYP UC UH VAV VD VFD VSD VFD VSD VTR W WB WC WPD	RETURN FAN RELATIVE HUMIDITY REHEAT COIL RELIEF OPENING REVOLUTIONS PER MINUTE SUPPLY AIR TEMPERATURE SMOKE DAMPER OR SMOKE DETECTOR SQUARE FEET OR SUPPLY FAN STATIC PRESSURE SENSOR THERMOSTAT TEMPERATURE DIFFERENCE TRANSFER OPENING TYPICAL UNDERCUT (DOOR) UNIT HEATER VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE VARIABLE FREQUENCY DRIVE VARIABLE SPEED DRIVE VARIABLE SPEED DRIVE VARIABLE SPEED DRIVE VART WET BULB TEMPERATURE WATER COLUMN WATER PRESSURE DROP
RHC RO RPM SAT SD SF SPS T TD TO TYP UC UH VAV VD VFD VSD VFD VSD VTR W WB WC WPD GENERAL A/E ABV AFF AFG	RETURN FAN RELATIVE HUMIDITY REHEAT COIL RELIEF OPENING REVOLUTIONS PER MINUTE SUPPLY AIR TEMPERATURE SMOKE DAMPER OR SMOKE DETECTOR SQUARE FEET OR SUPPLY FAN STATIC PRESSURE SENSOR THERMOSTAT TEMPERATURE DIFFERENCE TRANSFER OPENING TYPICAL UNDERCUT (DOOR) UNIT HEATER VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE VARIABLE FREQUENCY DRIVE VARIABLE SPEED DRIVE VARIABLE SPEED DRIVE VARIABLE SPEED DRIVE VARIABLE SPEED DRIVE WATT WET BULB TEMPERATURE WATER COLUMN WATER PRESSURE DROP ABBREVIATIONS: ARCHITECT/ENGINEER ABOVE
RHC RO RPM SAT SD SF SPS T TD TO TVP UC UH VAV VD VFD VSD VTR W WB WC WPD GENERAL A/E ABV AFF AFG ALT ARCH	RETURN FAN RELATIVE HUMIDITY REHEAT COIL RELIEF OPENING REVOLUTIONS PER MINUTE SUPPLY AIR TEMPERATURE SMOKE DAMPER OR SMOKE DETECTOR SQUARE FEET OR SUPPLY FAN STATIC PRESSURE SENSOR THERMOSTAT TEMPERATURE DIFFERENCE TRANSFER OPENING TYPICAL UNDERCUT (DOOR) UNIT HEATER VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE VARIABLE FREQUENCY DRIVE VARIABLE SPEED DRIVE VARIABLE SPEED DRIVE VENT THROUGH ROOF WATT WET BULB TEMPERATURE WATER COLUMN WATER PRESSURE DROP ABOVE FINISHED FLOOR ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ALTERNATE ARCHITECT
RHC RO RPM SAT SD SF SPS T TD TO TYP UC UH VAV VD VFD VSD VTR W WB WC WPD GENERAL AFF AFG ALT ARCH BFG BLDG	RETURN FAN RELATIVE HUMIDITY REHEAT COIL RELIEF OPENING REVOLUTIONS PER MINUTE SUPPLY AIR TEMPERATURE SMOKE DAMPER OR SMOKE DETECTOR SQUARE FEET OR SUPPLY FAN STATIC PRESSURE SENSOR THERMOSTAT TEMPERATURE DIFFERENCE TRANSFER OPENING TYPICAL UNDERCUT (DOOR) UNIT HEATER VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE VARIABLE FREQUENCY DRIVE VARIABLE SPEED DRIVE VARIABLE SPEED DRIVE VENT THROUGH ROOF WATT WET BULB TEMPERATURE WATER COLUMN WATER PRESSURE DROP ABOVE FINISHED FLOOR ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ALTERNATE ARCHITECT BELOW FINAL GRADE BUILDING
RHC RO RPM SAT SD SF SPS T TD TO TYP UC UH VAV VD VFD VSD VTR W WB WC WPD GENERAL AFF AFG ALT ARCH BFG BLDG CLG DIR	RETURN FAN RELATIVE HUMIDITY REHEAT COIL RELIEF OPENING REVOLUTIONS PER MINUTE SUPPLY AIR TEMPERATURE SMOKE DAMPER OR SMOKE DETECTOR SQUARE FEET OR SUPPLY FAN STATIC PRESSURE SENSOR THERMOSTAT TEMPERATURE DIFFERENCE TRANSFER OPENING TYPICAL UNDERCUT (DOOR) UNIT HEATER VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE VARIABLE FREQUENCY DRIVE VARIABLE SPEED DRIVE VARIABLE SPEED DRIVE VENT THROUGH ROOF WATT WET BULB TEMPERATURE WATER COLUMN WATER PRESSURE DROP ABOVE ABOVE FINISHED FLOOR ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ALTERNATE ARCHITECT BELOW FINAL GRADE BUILDING CEILING DIRECT
RHC RO RPM SAT SD SF SPS T TD TO TVP UC UH VAV VD VFD VSD VTR W WB WC WPD GENERAL A/E ABV AFF AFG ALT ARCH BFG BLDG CLG DIR DISC DN	RETURN FAN RELATIVE HUMIDITY REHEAT COIL RELIEF OPENING REVOLUTIONS PER MINUTE SUPPLY AIR TEMPERATURE SMOKE DAMPER OR SMOKE DETECTOR SQUARE FEET OR SUPPLY FAN STATIC PRESSURE SENSOR THERMOSTAT TEMPERATURE DIFFERENCE TRANSFER OPENING TYPICAL UNDERCUT (DOOR) UNIT HEATER VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE VARIABLE FREQUENCY DRIVE VARIABLE SPEED DRIVE VARIABLE SPEED DRIVE VENT THROUGH ROOF WATT WET BULB TEMPERATURE WATER COLUMN WATER PRESSURE DROP ABBREVIATIONS: ARCHITECT/ENGINEER ABOVE ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ALTERNATE ARCHITECT BELOW FINAL GRADE BUILDING CEILING DIRECT DISCONNECT DOWN
RHC RO RPM SAT SD SF SPS T TD TO TYP UC UH VAV VD VFD VSD VFD VSD VFD VSD VTR W WB WC WPD GENERAL A/E ABV AFF AFG ALT ARCH BFG BLDG CLG DIR DISC DN EC ELEV	RETURN FAN RELATIVE HUMIDITY REHEAT COIL RELIEF OPENING REVOLUTIONS PER MINUTE SUPPLY AIR TEMPERATURE SMOKE DAMPER OR SMOKE DETECTOR SQUARE FEET OR SUPPLY FAN STATIC PRESSURE SENSOR THERMOSTAT TEMPERATURE DIFFERENCE TRANSFER OPENING TYPICAL UNDERCUT (DOOR) UNIT HEATER VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE VARIABLE FREQUENCY DRIVE VARIABLE SPEED DRIVE VARIABLE SPEED DRIVE VENT THROUGH ROOF WATT WET BULB TEMPERATURE WATER COLUMN WATER PRESSURE DROP ABBREVIATIONS: ARCHITECT/ENGINEER ABOVE ABOVE FINISHED FLOOR ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ALTERNATE ARCHITECT BELOW FINAL GRADE BUILDING CEILING DIRECT DISCONNECT DOWN ELECTRICAL CONTRACTOR ELEVATION REFERENCE
RHC RO RPM SAT SD SF SPS T TD TO TVP UC UH VAV VD VFD VSD VTR W WB WC WPD GENERAL A/E ABV AFF AFG ALT ARCH BFG BLDG CLG DIR DISC DN EC	RETURN FAN RELATIVE HUMIDITY REHEAT COIL RELIEF OPENING REVOLUTIONS PER MINUTE SUPPLY AIR TEMPERATURE SMOKE DAMPER OR SMOKE DETECTOR SQUARE FEET OR SUPPLY FAN STATIC PRESSURE SENSOR THERMOSTAT TEMPERATURE DIFFERENCE TRANSFER OPENING TYPICAL UNDERCUT (DOOR) UNIT HEATER VARIABLE AIR VOLUME VOLUME DAMPER VARIABLE FREQUENCY DRIVE VARIABLE FREQUENCY DRIVE VARIABLE SPEED DRIVE VARIABLE SPEED DRIVE VENT THROUGH ROOF WATT WET BULB TEMPERATURE WATER COLUMN WATER PRESSURE DROP ABBREVIATIONS: ARCHITECT/ENGINEER ABOVE ABOVE FINISHED FLOOR ABOVE FINISHED FLOOR ABOVE FINISHED GRADE ALTERNATE ARCHITECT BELOW FINAL GRADE BUILDING CEILING DIRECT DISCONNECT DOWN ELECTRICAL CONTRACTOR

ELECTRIC WATER COOLER FLUSH FURNISHED BY OTHERS FIXTURE FULL LOAD AMPS FLOOR FLOW SWITCH GENERAL CONTRACTOR GROUND GYPSUM BOARD HEATING CONTRACTOR HEATING & VENTILATING - AIR CONDITIONING HEAVYWALL INDIRECT INTERLOCK IN UNIT JUNCTION BOX LAY-IN GRID LIGHTING LOW VOLTAGE LINE VOLTAGE THERMOSTAT MECHANICAL CONTRACTOR MINIMUM CIRCUIT AMPS MAXIMUM OVERCURRENT PROTECTION MOUNTED

NOT IN CONTRACT NOT TO SCALE PLUMBING CONTRACTOR ROOM SURFACE

TS TAMPER SWITCH TYP TYPICAL UG UNDERGROUND VC

VENTILATION CONTRACTOR

GENERAL NOTES:

- CONTRACTOR SHALL PROVIDE ALL 1. MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR AS REQUIRED TO INSTALL A COMPLETE AND OPERABLE HVAC SYSTEM PER THE NEW ARCHITECTURAL LAYOUT AND AS TO COMPLY WITH THE SPECIFICATION, DETAILS, THIS SCOPE OF WORK AND ALL APPLICABLE CODES.
- ALL WORK PERFORMED SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES.
- 3. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE ALL NEW WORK WITH ALL TRADES PRIOR TO ANY WORK BEING DONE TO INSURE CONFLICTS DO NOT OCCUR.
- DISRUPTION OF ANY EXISTING SERVICE 4 SHALL BE CLEARED WITH THE OWNER AND SHALL BE PERFORMED AT A TIME AND IN A MANNER SO AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE.
- ALL DUCT SIZES INDICATED ON PLANS AND 5. RISERS ARE CLEAR INSIDE DIMENSIONS. DUCT SIZES NOT SHOWN SHALL BE SIZED TO VELOCITIES NO GREATER THAN UPSTREAM SECTION USING SIMILAR ASPECT RATIOS.
- ALL SUPPLY AIR TAKEOFFS FROM MAIN TRUNK DUCTS ARE TO BE INSTALLED WITH BELL MOUTH FITTINGS OR 45 DEGREE ENTRY TO PROVIDE THE SMOOTHEST AIR FLOW POSSIBLE.
- 7. PROVIDE TURNING VANES IN ALL LOW 7. PRESSURE 90DEGREEDUCT TURNS.
- ALL THERMOSTAT LOCATIONS SHALL BE APPROVED BY THE ARCHITECT.
- ALL DUCTS LOCATED ABOVE INACCESSIBLE CEILINGS ARE TO BE BALANCED PRIOR TO CEILING INSTALLATIONS.
- CONTRACTOR SHALL PROVIDE ACCESS 10. DOORS FOR SERVICE AND MAINTENANCE OF ALL EQUIPMENT LOCATED ABOVE INACCESSIBLE CEILINGS.
- 11. PROVIDE GUIDES, HANGERS, EXPANSION LOOPS AND SUPPLEMENTARY STEEL SUPPORT WHERE REQUIRED FOR ALL PIPING.
- ALL ROOF TOP UNITS TO HAVE 24" ROOF 12. CURB.

INSULATION SCHEDULE:

ALL EXPOSED DUCTWORK IN CONDITIONED SPACES OR SPIRAL DUCT

- ALL EXTERIOR DUCTWORK ALL CONCEALED SUPPLY AND RETURN DUCT
- ALL EXHAUST UP TO 10'-0" FROM DISCHARGE
- ALL HEATING AND COOLING HYDRONIC PIPING

CONDENSATE PIPING

NOTE: ALL SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES AND WITH A MINIMUM OF R-12 INSULATION WHEN LOCATED OUTSIDE THE BUILDING ENVELOPE. WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-12 INSULATION. ALL

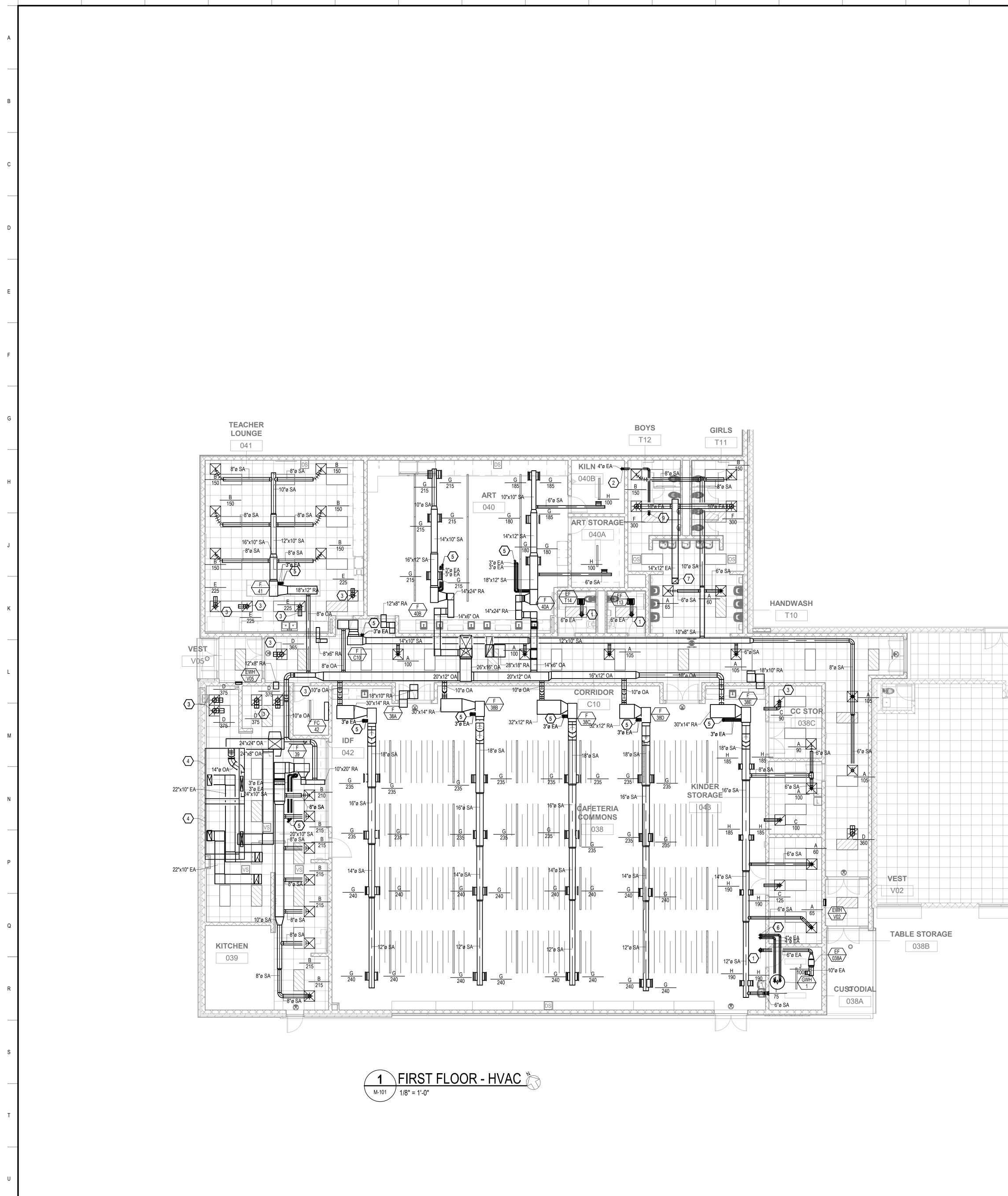
JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS, MASTIC-PLUSEMBEDDED-FABRICSYSTEMS OR TAPES. TAPES AND MASTICS SHALL BE LISTED AND LABELED IN

ACCORDANCE WITH UL 181A OR UL 181B. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS.



1" LINED MIN. R-12 MIN. R-6 MIN. R-6 MIN. 2"

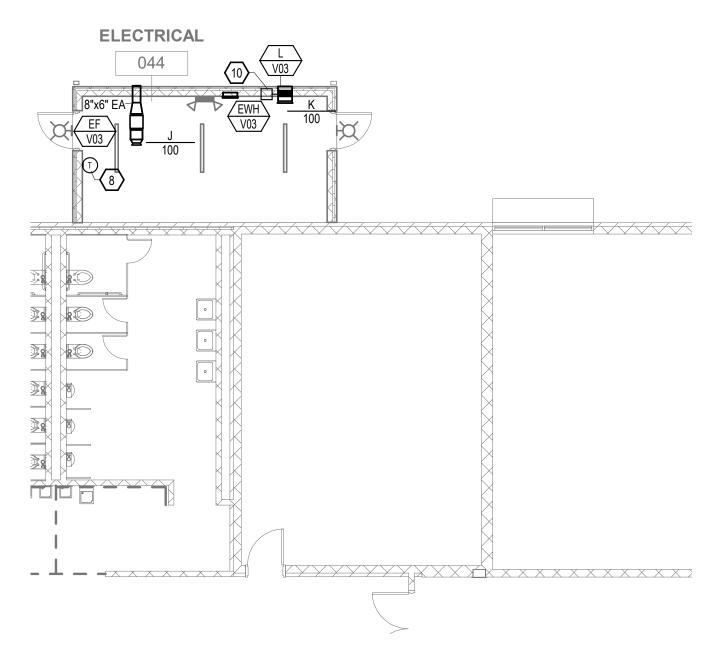
MIN. 1"



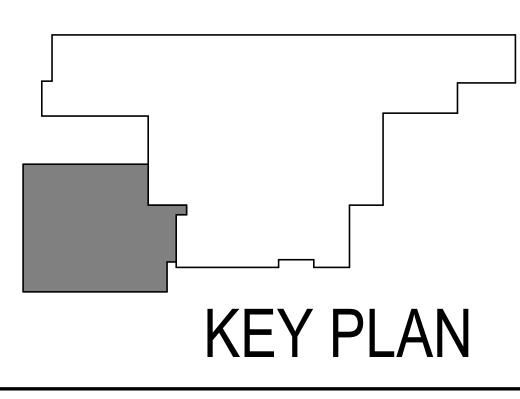
- 1. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
- 2. ALL MECHANICAL SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
- 3. REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION. **KEYNOTES**
- 6" EXHAUST DUCT UP THROUGH ROOF.

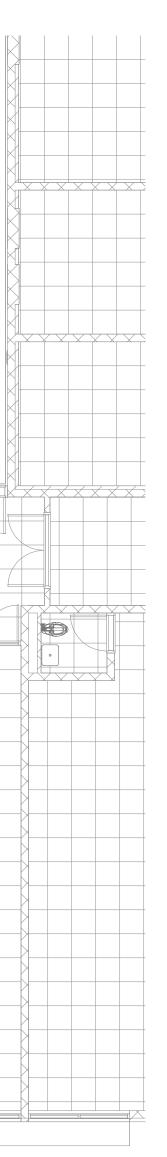
FAIL POSITION TO BE OPEN.

- 2 4" KILN EXHAUST DUCT DOWN WALL TO CONNECT TO KILN EXHAUST CONNECTION.
- 3 LINED ELBOW OFF RETURN FOR PLENUM RETURN, REFER TO GRILL AND REGISTER SCHEDULE FOR DUCT SIZE.
- 4 AREA DEDICATED BY KITCHEN HOOD. SEE KITCHEN CONSULTANT DRAWINGS FOR MORE DETAILS.
- 5 3" EXHAUST AND INTAKE FLUES UP THROUGH ROOF. SEE SHEET M-202 FOR MORE DETAILS.
- 6 4" EXHAUST AND INTAKE FLUES UP THROUGH ROOF. SEE SHEET M-202 FOR MORE DETAILS.
- 7 14"X12" EXHAUST DUCT UP TO EF 14 ON ROOF. SEE SHEET M-202 FOR MORE DETAILS.
- 8 THERMOSTAT TO CONTROL EF V03 ON ROOF AND L VO3. THERMOSTAT TO BE SET AT 85F.
- 9 4" KILN EXHAUST UP THROUGH ROOF. TERMINATE WITH ROOF CAP WITH BACK DRAFT DAMPER AND BIRD SCREEN.
- 10 MOTORIZED LOUVER TO BE TIED INTO EXHAUST FAN V03. WHEN EXHAUST FAN TURNS ON LOUVER TO OPEN. LOUVER

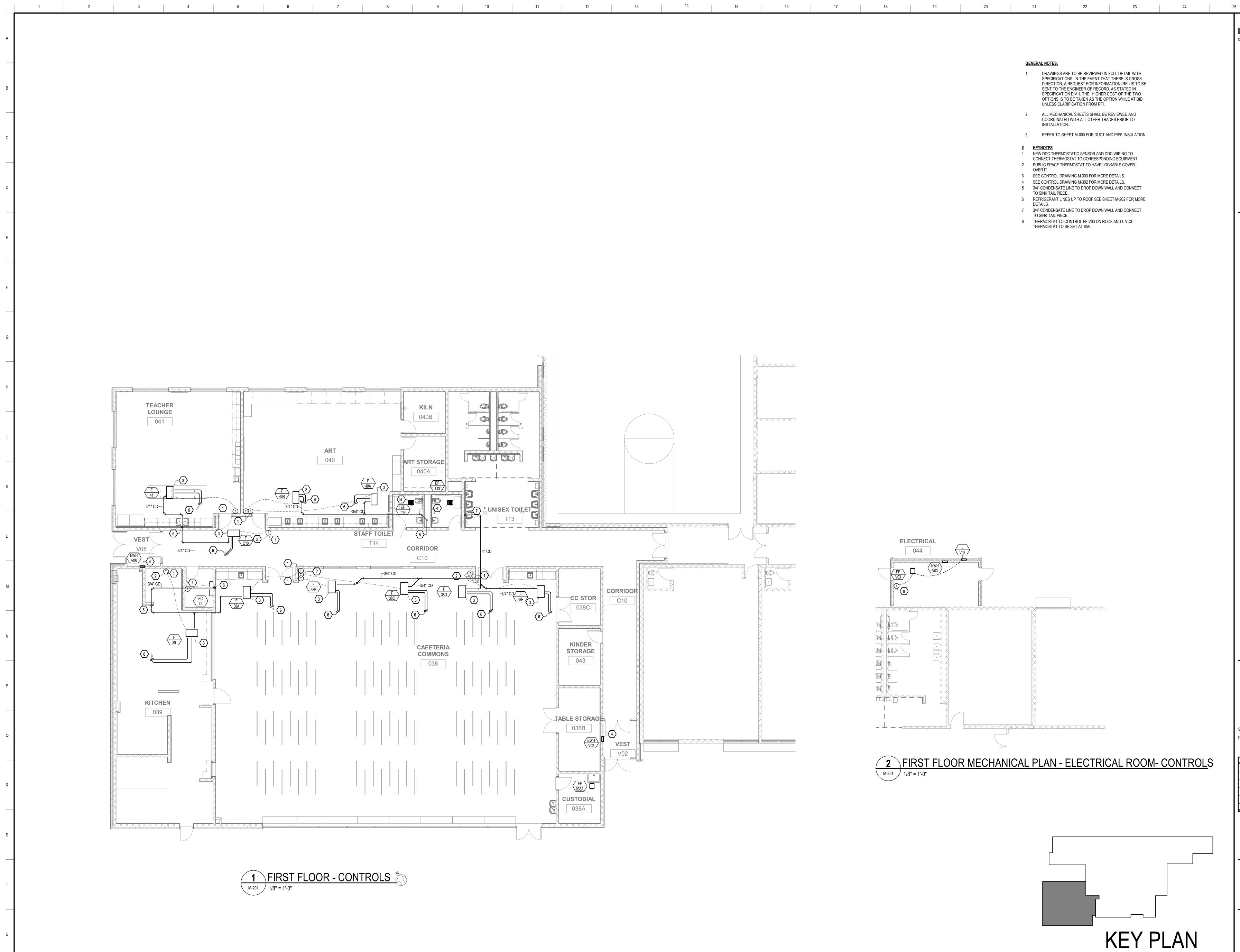




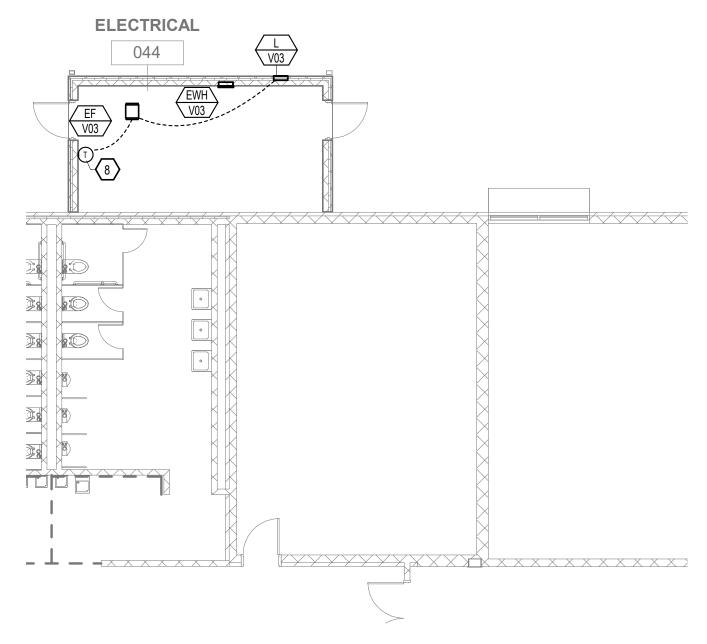




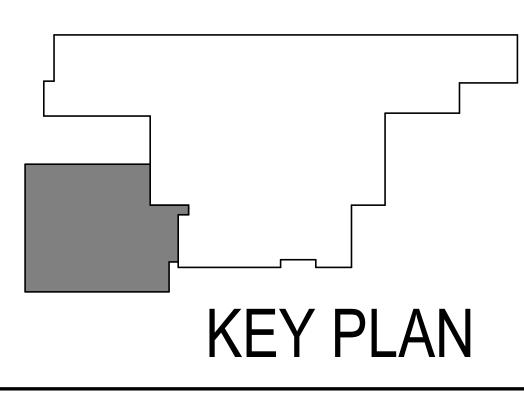




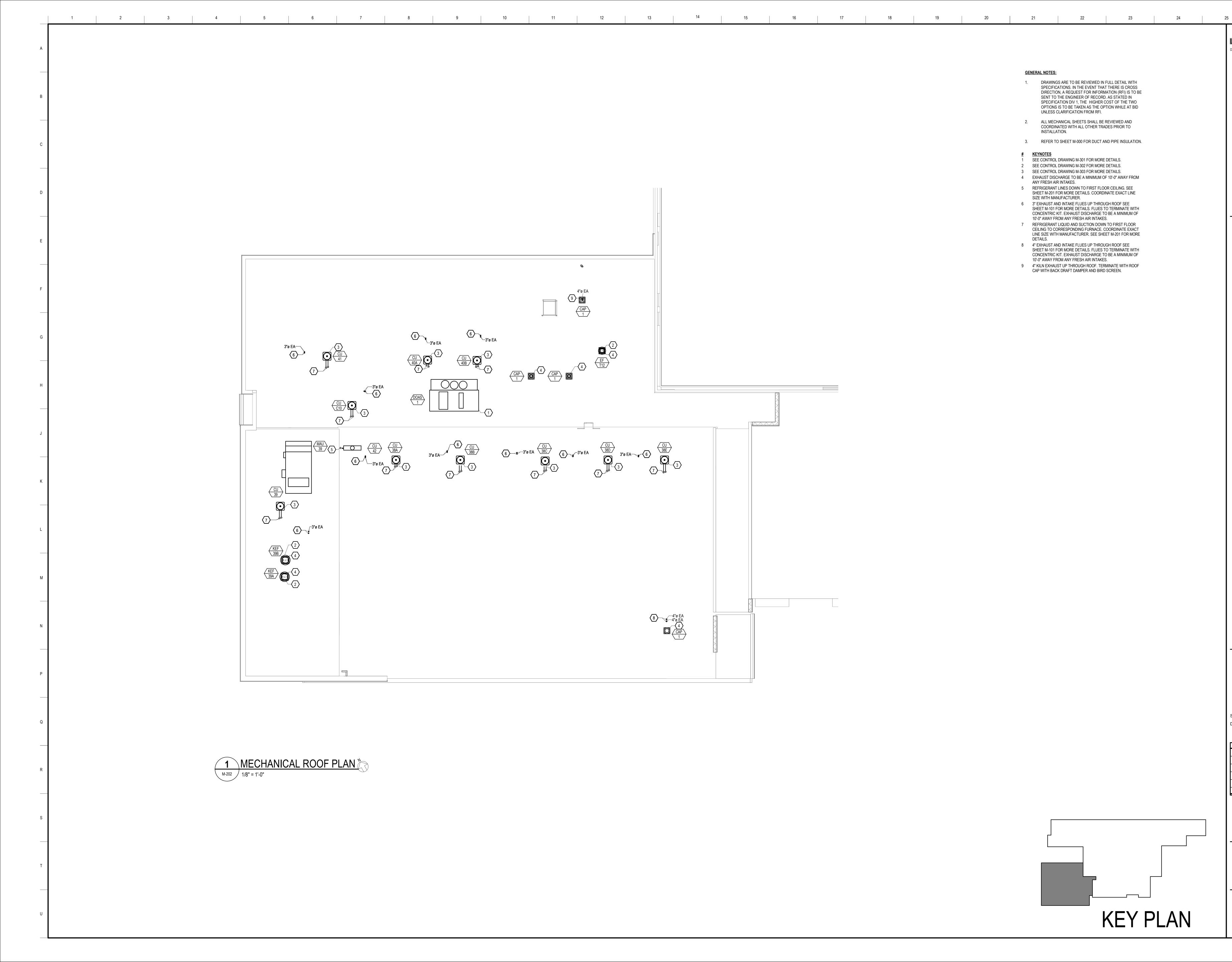
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- 2. ALL MECHANICAL SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
- 3. REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.
- <u># KEYNOTES</u> NEW DDC THERMOSTATIC SENSOR AND DDC WIRING TO 1 CONNECT THERMOSTAT TO CORRESPONDING EQUIPMENT. 2 PUBLIC SPACE THERMOSTAT TO HAVE LOCKABLE COVER
- OVER IT. 3 SEE CONTROL DRAWING M-303 FOR MORE DETAILS. 4 SEE CONTROL DRAWING M-302 FOR MORE DETAILS.
- 5 3/4" CONDENSATE LINE TO DROP DOWN WALL AND CONNECT TO SINK TAIL PIECE .
- 6 REFRIGERANT LINES UP TO ROOF SEE SHEET M-202 FOR MORE DETAILS.
- 7 3/4" CONDENSATE LINE TO DROP DOWN WALL AND CONNECT TO SINK TAIL PIECE .
- 8 THERMOSTAT TO CONTROL EF V03 ON ROOF AND L VO3. THERMOSTAT TO BE SET AT 85F.



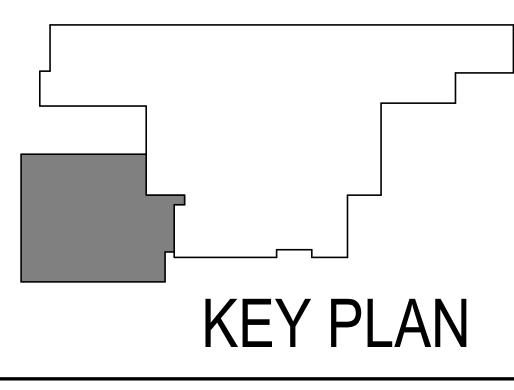
2 FIRST FLOOR MECHANICAL PLAN - ELECTRICAL ROOM- CONTROLS M-201 1/8" = 1'-0"



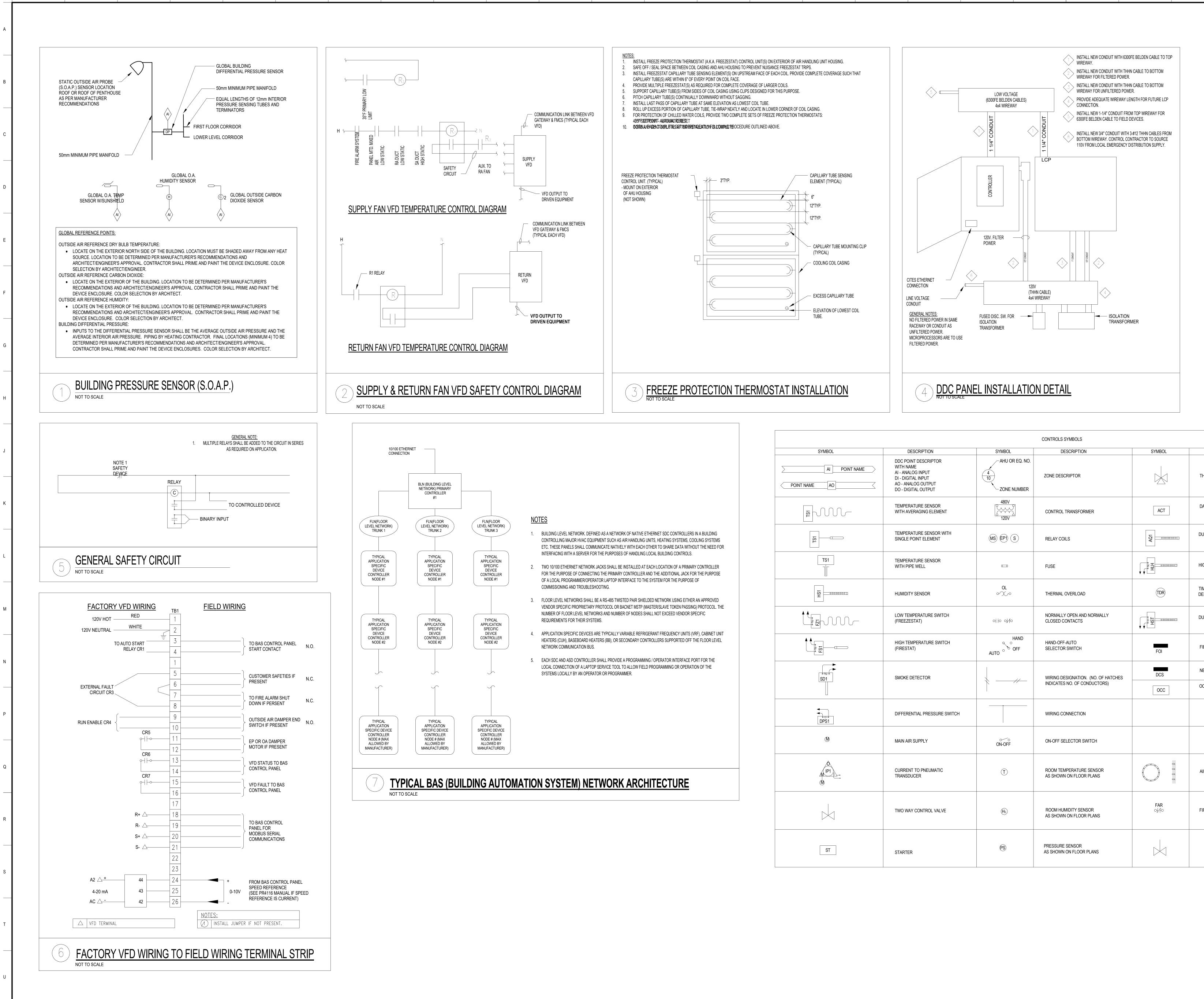




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- 2. ALL MECHANICAL SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
- 3. REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.
- **KEYNOTES** SEE CONTROL DRAWING M-301 FOR MORE DETAILS.
- 2 SEE CONTROL DRAWING M-302 FOR MORE DETAILS. 3 SEE CONTROL DRAWING M-303 FOR MORE DETAILS.
- 4 EXHAUST DISCHARGE TO BE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKES. 5 REFRIGERANT LINES DOWN TO FIRST FLOOR CEILING. SEE SHEET M-201 FOR MORE DETAILS. COORDINATE EXACT LINE
- SIZE WITH MANUFACTURER. 6 3" EXHAUST AND INTAKE FLUES UP THROUGH ROOF SEE SHEET M-101 FOR MORE DETAILS. FLUES TO TERMINATE WITH CONCENTRIC KIT. EXHAUST DISCHARGE TO BE A MINIMUM OF
- 10'-0" AWAY FROM ANY FRESH AIR INTAKES. 7 REFRIGERANT LIQUID AND SUCTION DOWN TO FIRST FLOOR CEILING TO CORRESPONDING FURNACE. COORDINATE EXACT LINE SIZE WITH MANUFACTURER. SEE SHEET M-201 FOR MORE
- DETAILS. 8 4" EXHAUST AND INTAKE FLUES UP THROUGH ROOF SEE SHEET M-101 FOR MORE DETAILS. FLUES TO TERMINATE WITH CONCENTRIC KIT. EXHAUST DISCHARGE TO BE A MINIMUM OF
- 10'-0" AWAY FROM ANY FRESH AIR INTAKES. 9 4" KILN EXHAUST UP THROUGH ROOF. TERMINATE WITH ROOF CAP WITH BACK DRAFT DAMPER AND BIRD SCREEN.



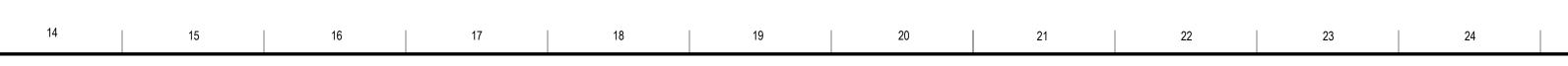




5 6 7 8 9 10 11 12 13

3 4

2



DESCRIPTION THREE WAY CONTROL VALVE DAMPER ACTUATOR DUCT AIR QUALITY SENSOR HIGH LIMIT HUMIDISTAT TIME DELAY RELAY DELAY ON MAKE OR BREAK DUCT MOUNTED HUMIDISTAT FIBER OPTIC INTERFACE NEW DIGITAL CONTROL STATION OCCUPANCY SENSOR AIR FLOW MONITORING STATION FIRE ALARM RELAY THREE WAY CONTROL VALVE



Dedicated Outside Air - Gas Heat & DX with Reheat (DOAS-1) Sequence of Operations A. General: The air handler shall be fully controlled by the BAS. For details on the referenced logic strategies refer to item 3.2 Air Handling Units General: Logic Strategies. Air handler control logic strategies shall include Air handler control logic strategies shall include: 1. scheduled occupancy

2. Night night purge 3. sequenced heating and cooling

2.

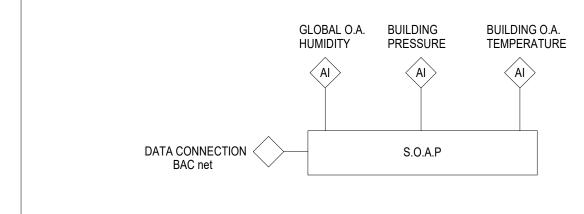
B. Discharge Air Control : The discharge air will have two setpoints, the drybulb temperature will setpoint control the gas furnace or the DX cooling. There will also be a discharge air relative humidity setpoint. When dx cooling is enabled the humidity setpoint will control the hot gas reheat coil to maintain a discharge air relative humididty. 1. Heating: The discharge air temperature (DAT) will be 70°F (adj.) with a fixed maximum of 80°F and a fixed minimum of 60°F. Dehumidification: a. The discharge air temperature will be reset from 67°F (adj.) with a fixed maximum of 75°F and an fixed minimum of 65°F.

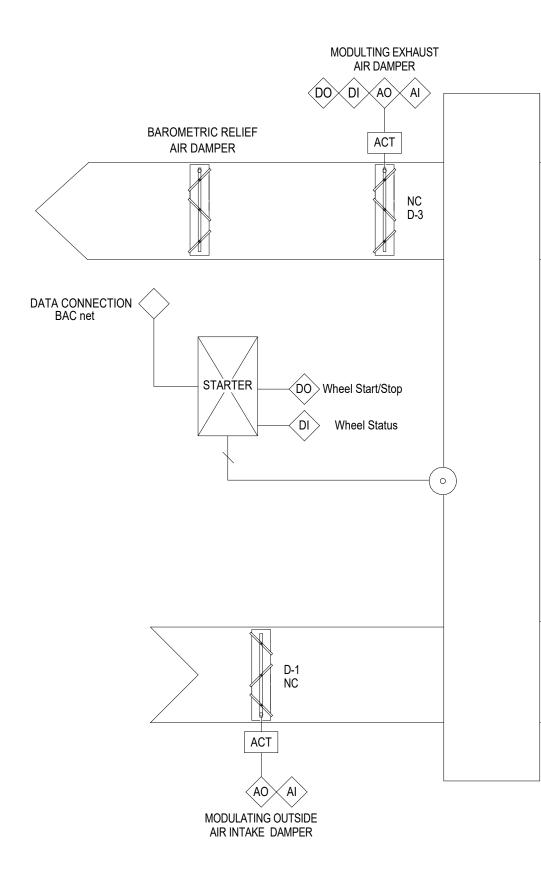
- b. The discharge air relative humidity will be 60% at 65°F c. When the discharge air setpoint is increased the relative humidity will be reset such that when the DAT is 75F the discharge air relative humidity will be 40%. d. When the discharge air setpoint is decreased the relative humidity will be reset such that when the DAT is 65F the discharge air relative humidity will be 57%. 3. The BAS shall shut down the RTU through software and require a manual reset if the discharge air temperature falls below 40°F (adj.) for more than 5 minutes.
- C. Supply Fan Enable: BAS shall control the supply fan as follows: 1. Start/Stop: BAS shall command the operation of the fan and it shall run continuously in occupied modes. Fan to wrap up and down dependent upon static pressure sensor within supply ductwork. Unit shall cycle on as needed during the night setback modes. Unit OA damper shall open via hard wire interlock whenever the unit fan is commanded on. Damper end switch shall prevent the unit fan from starting until the damper is proven open as detailed below ..
- unit. The BAS shall also enunciate an alarm as specified above.
- D. Return Fan Enable: BAS shall control the supply fan as follows: 1. Start/Stop: BAS shall command the operation of the fan and it shall run continuously in occupied modes. Fan will ramp up and down in conjunction with supply fan. Proof: BAS shall prove fan operation and use the status indication to accumulate runtime. Upon failure of the fan, the BAS shall disable and lockout the unit enable command. A manual software reset shall be required to restart the unit. The BAS shall also enunciate an alarm as specified above.
- E. Wheel Fan Enable: BAS shall control the supply fan as follows: 1. Start/Stop: BAS shall command the operation of the fan and it shall run continuously in occupied modes. Fan will ramp up and down in conjunction with supply fan. Proof: BAS shall prove fan operation and use the status
- specified above. F. OA Damper: The outside air damper shall be controlled as follows:
- 1. Closed: When AH is deenergized, OA damper shall remain in the closed position.

Open: When the AH is enabled, the OA damper shall be hard wire interlocked to open. Damper end switch shall prevent the unit fan from starting, through a hardwire interlock, until the damper is proven open. BAS shall also monitor the status of the end switch and prove operation. Upon a failure of the damper to be proven open, the BAS shall disable and lockout the unit enable command. A manual software reset shall be required to restart the unit (a single software reset point that resets both the supply fan and the OA damper failures is acceptable). The BAS shall also enunciate an alarm as specified above. The end switch must be an independent device. An end switch internal to the actuator is not acceptable.

- G. Gas Heat: Whenever the unit is enabled, the gas heat shall be controlled as follows: 1. The staging of the gas heater will be controlled locally by an integral control loop supplied with the RTU. The BAS will have the ability to reset the discharge air setpoint.
- 2. Or, the gas heater will be controlled via a PID loop to maintain the discharge temperature at the heating discharge temperature setpoint. The heating discharge temperature setpoint shall be equal to the discharge air temperature setpoint - 2°F (adj.) 3. To help prevent the unit from cycling between heating and cooling too often, the gas heat shall not be allowed until the cooling has been disabled for at least 2 minutes (adj.).
- Heating will not be enabled when the RTU intake air temperature is above the heating setpoint 2°F 4 5. Otherwise, the gas heat shall not be disabled as long as the unit supply fan status is proven on.
- H. DX Cooling: Whenever the unit is enabled and status has been proven on, the DX cooling shall be controlled as follows: The DX cooling stages shall be enabled based on a PID loop output to maintain the discharge temperature at setpoint. 2. The first stage of cooling shall be enabled when:
- a. The PID loop output exceeds 30% (adj.) with a 25% (adj.) differential to cut off.
- b. AND, the RTU intake air temperature is above 55°F (adj.) 3. As applicable, the second stage of cooling shall be enabled when:
- a. The PID loop output exceeds 60% (adj.) with a 25% (adj.) differential to cut off.
- b. AND, the RTU intake air temperature is above 75°F (adj.) I. Hot Gas Reheat: Whenever the unit is enabled and DX Cooling is enabled, the Hot Gas reheat coil controlled as follows:
- 1. The Hot Gas reheat coil valve will modulate to maintain the supply air relative humidity setpoint. J. Safeties: BAS shall execute the following safety logic strategies as detailed in item 3.2 Air Handling Units General: Safeties. Safety Logic strategies shall include: . Software Low Limit Safety
- Smoke Safety
- Run Time Limit 2. DP Transmitter Filter Monitoring

ONLY ONE S.O.A.P FOR WHOLE BUILDING. NOT ONE PER DOAS UNIT.





2. Proof: BAS shall prove fan operation and use the status indication to accumulate runtime. Upon failure of the fan, the BAS shall disable and lockout the unit enable command. A manual software reset shall be required to restart the

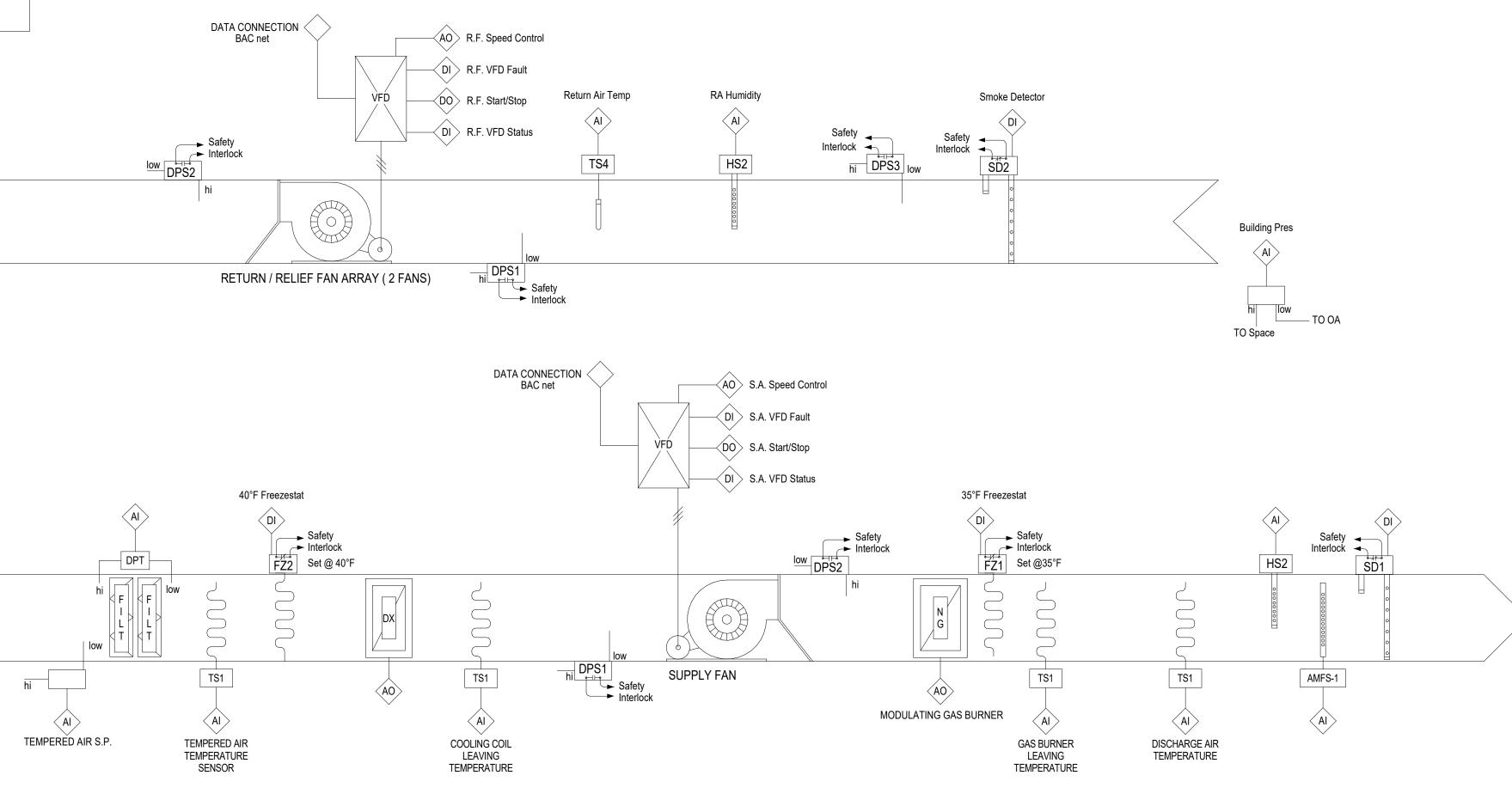
indication to accumulate runtime. Upon failure of the fan, the BAS shall disable and lockout the unit enable command. A manual software reset shall be required to restart the unit. The BAS shall also enunciate an alarm as

K. Diagnostics: BAS shall execute the following diagnostic strategies as detailed in item 3.2 Air Handling Units General: Diagnostics. Diagnostic Logic strategies shall include:

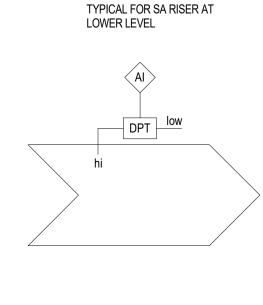
GENERAL NOTES:

- 1. ALL RELAYS SHALL BE GOLD CONTACT.
- 2. PILOT RELAYS SHALL BE USED FOR ALL DIGITAL OUTPUT POINTS.
- 3. OPTICAL ISOLATION (ISOVERTERS) SHALL BE USED FOR ALL ANALOG INPUT POINTS AND ANALOG OUTPUT POINTS TO VFD'S OR ANY OTHER CONTROLLER/ANALYZER POWERED FROM A SEPARATE CIRCUIT.
- 4. BAS SHALL BE FULLY ACCESSIBLE BY MOBILE.
- 5. ECM MOTORS CAN BE USED IN LIEU OF VFDS.

RETURN/RELIEF FAN VFD CONNECTIONS TYPICAL OF ONE VFD (TO CONTROL TWO RETURN FANS)

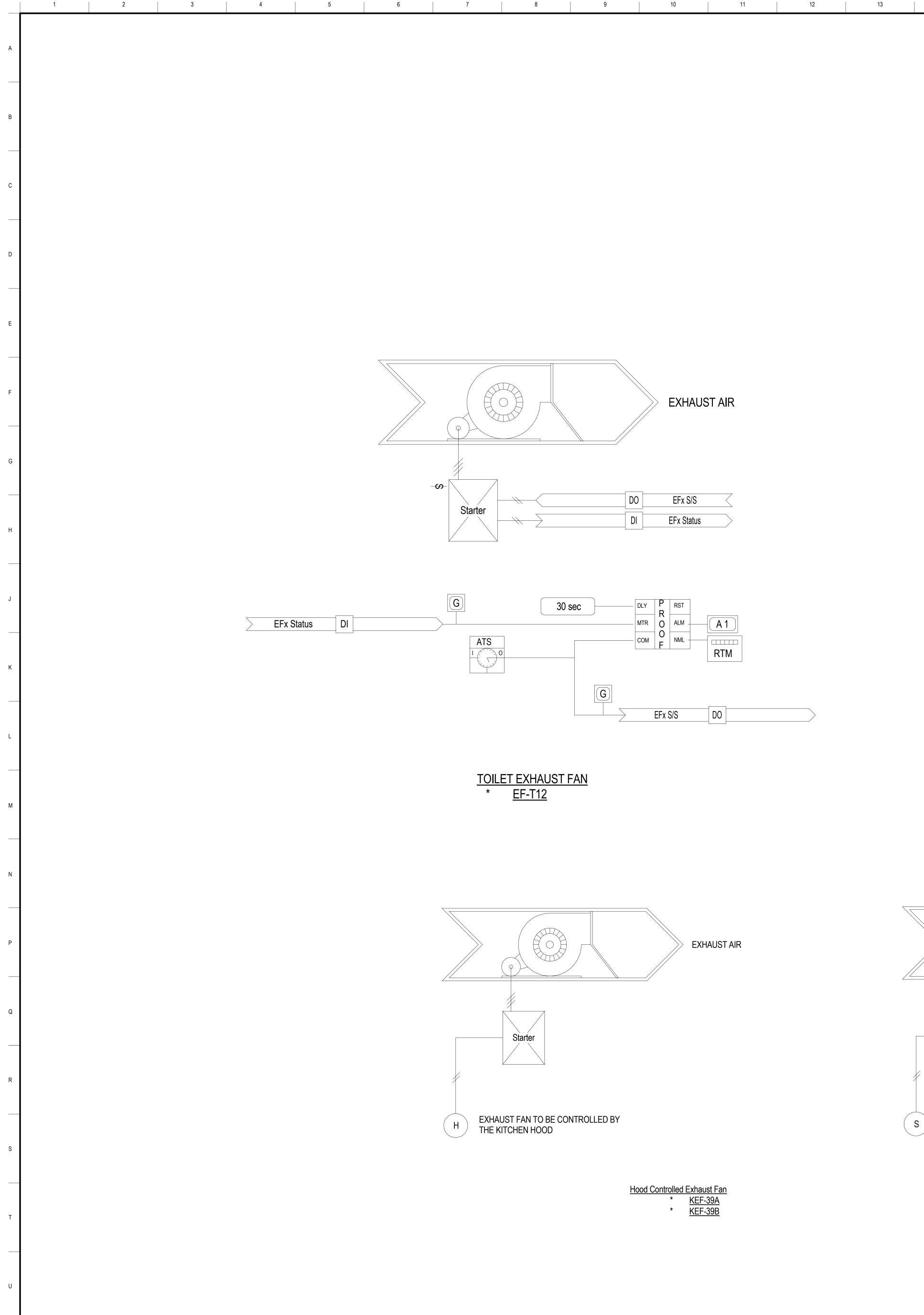


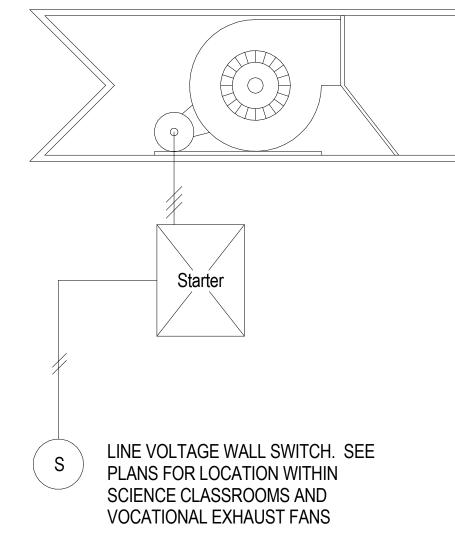
								INP	UTS											UTPUT	s								SYSTE	M FEAT	URES				
	<u> </u>		AN	ALOG								DIGITA				+	AN	ALOG				DIGITA					RMS					LANEOU	us		
			AN	ALUG	•											_	AN										RIVIS				MISCEL		05		
	TEMPERATURE SENSOR	HUMIDITY SENSOR	PRESSURE	AIRFLOW MEASUREMENT	SETPOINT ADJUST	POSITION FEEDBACK	OTHER	DIFFERENTIAL PRESSURE SWITCH	FLOW SWTICH	CURRENT SWTICH	THERMOSTAT	HUMIDISTAT	STATUS	ALARM	OVERRIDE	MODULATING	SETPOINT	VARIABLE SPEED	OTHER	ENABLE/DISABLE	START/STOP	OPEN/CLOSE	OWOFF	OTHER	HIGH ANALOG	LOW ANALOG	OFF NORMAL	AUTO ALARM SEQUENCE	RUNTIME	TREND	OPTIMAL START	SCHEDULING PAGING		CUSTOM REPORT	NOTES
OUTSIDE AIR TEMPERATURE	x																													x	x			x	
OUTSIDE AIR HUMIDITY		x																												x	x	-		x	
OUTSIDE AIR DAMPER						x																								x	x			x	
EXTERIOR OUTSIDE INCOMING AIR DAMPER													x			+						x					x	x				×	x	x	1
BUILDING PRESSURE			x													+									x	x				x				x	
WHEEL START-STOP			+	+				-		-			-	+		+	-	+			x								x		+	x	_	x	
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FILTER DIFFERENTIAL PRESSURE TRANSMITTER	$\left \right $		x					-	-		-		^^	-	\vdash	+	+	-							x		, "			x	-+	+	+	x	
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			+	_							~		-	-	$\left \right $	+	+								^	^	~			^	-+	+	_	_	
SAFETY LOW LIMIT THERMOSTAT - 40 DEGREES F											x		-	-		+	-	-									x	x	-			+		x	
COOLING COIL LEAVING TEMPERATURE SENSOR	x		-+										_	-		_	+								x	x				x		+	_	x	
SUPPLY FAN LOW-PRESSURE STATIC PRESSURE SWITCH								x								_	_										x	x				×	_	x	1
SUPPLY FAN START-STOP																_	_				x								x			x		x	
SUPPLY FAN VFD																_	_																		3
SUPPLY FAN VFD STATUS													x				_										x			x					
SUPPLY FAN VFD FAULT														x		\square		-									x					\perp			_
SUPPLY FAN SPEED CONTROL																	_	x												x				x	
SUPPLY FAN HIGH-PRESSURE STATIC PRESSURE SWITCH								x																			x	x				×	x	x	
SAFETY LOW LIMIT THERMOSTAT - 35 DEGREES F											x																x	x				X	x	x	_
GAS HEAT BURNER LEAVING TEMPERATURE SENSOR	x																								x	x				x				x	
DISCHARGE AIR TEMPERATURE	x																								x	x				x				x	
DISCHARGE AIR HUMIDITY		x																							x	x				x				x	
DISCHARGE AIR DUCT DETECTOR														x													x	x				>	x	x	2
SUPPLY AIR AIRFLOW				x																					x	x				x				x	
SUPPLY DUCT STATIC PRESSURE - RISER AT LOWER LEVEL			x																						x	x				x				x	
RETURN AIR SMOKE DETECTOR														x													x	x				×	x	x	2
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			+											1		+		1													+	+		+	
RETURN LOW-PRESSURE SAFETY SWITCH			+					x		-			-	+		+	+	+									x	x	-		+	x	x	x	1
RETURN FAN START-STOP (TYPICAL PER FAN - 2 FANS)			+	+									-	+		+		+			x								x		+	+	_	x	
RETURN FAN VFD (TYPICAL PER FAN - 2 FANS)		-+	+					-						+	\vdash	+	-	+													+	+		+	3
RETURN FAN VFD STATUS (TYPICAL PER FAN - 2 FANS)	$\left \right $		+	-+					-		-		x	+	\vdash	+	+	+									x	-	x		-+	+	+	x	Ť
RETURN FAN VFD FAULT (TYPICAL PER FAN - 2 FANS)	\vdash		+	-+					-	-	-		+	x	\vdash	+	+	+	-						-		x		·		-+	×		x	
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RETURN FAN HIGH-PRESSURE STATIC PRESSURE SWITCH	$\left \right $		+					x					-	-	\vdash	+	+	^									x	x		Â	-+	+	_	×	1
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EXTERIOR EXHAUST DISCHARGE DAMPER													x									x					x	x				×	x	x	1
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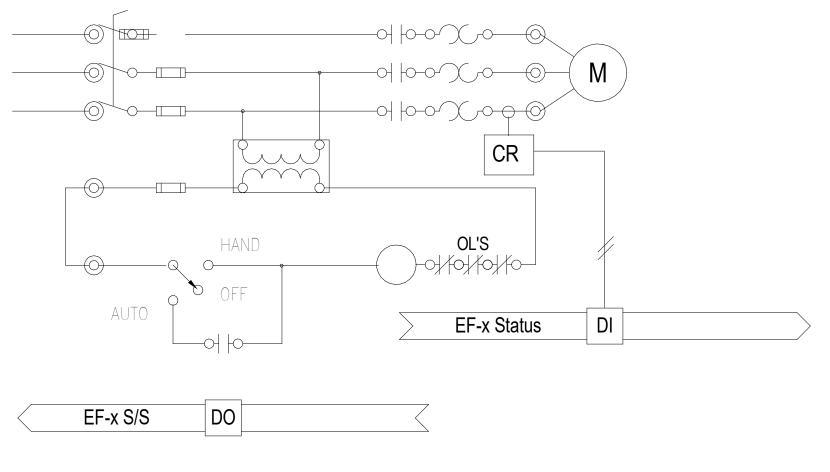


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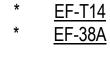


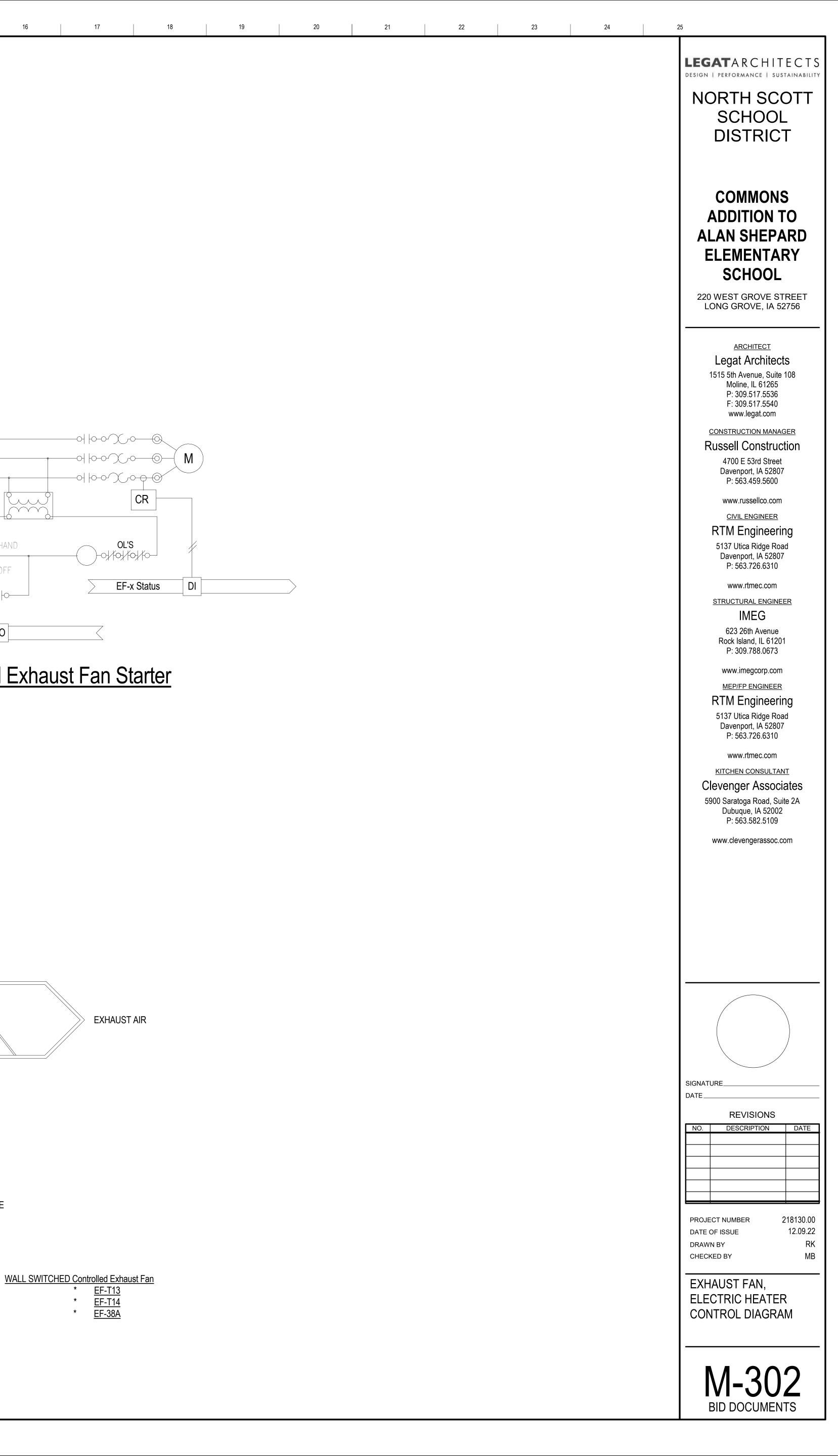






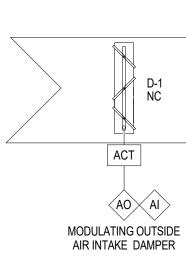
WALL SWITCHED Controlled Exhaust Fan * <u>EF-T13</u> * <u>EF-T14</u> * <u>EF-38A</u>

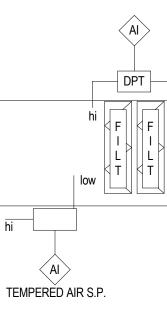




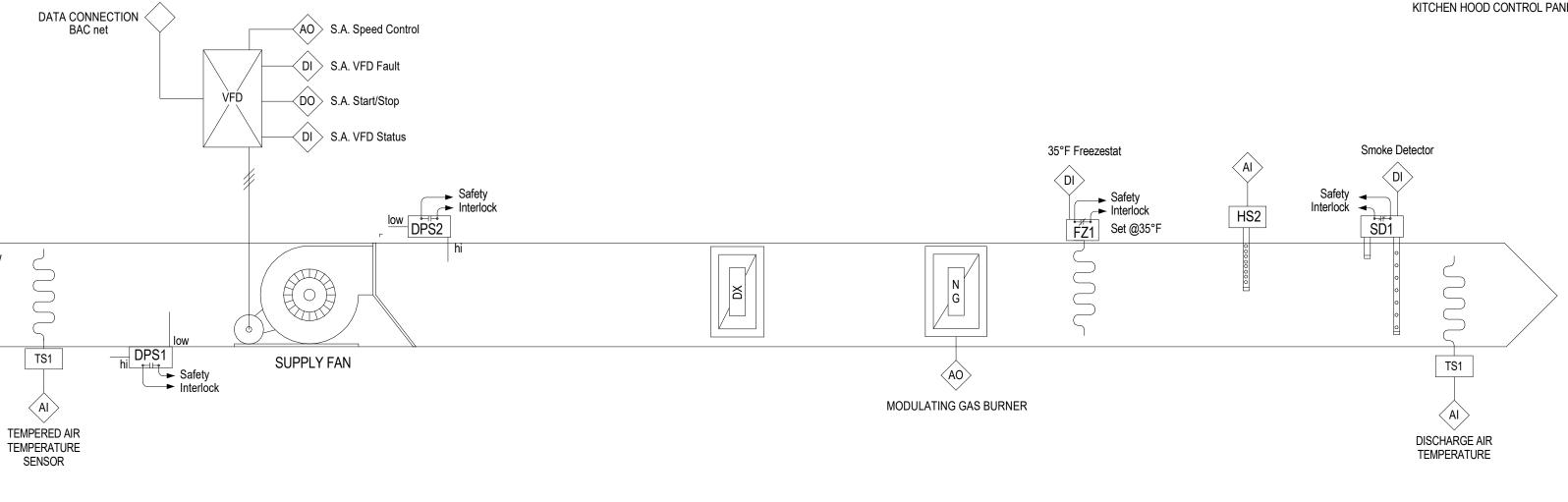
RTU Single Zone make up air unit - Gas Heat and DX CoolingSequence of Operations A. General: The air handler shall be fully controlled by the the kitchen hood panel, and monitored by the BAS. For details on the referenced logic strategies refer to item 3.2 Handling Units General: Logic Strategies. Air handler control logic strategies shall include Air handler control logic strategies shall include: 1. scheduled occupancy with optimum preoccupancy

- 2. night purge 3. sequenced heating and cooling
- B. Space Temperature Setpoints: Three setpoints shall apply. Normal (72°F adj.)), setback heating (65°F (adj.)), and setback cooling (85°F). These three values shall be t only values changed by the operator to adjust space temperatures. All other deadbands, differentials, etc. shall be calculated in the program logic (unless another means provided to prohibit overlap of the heating and cooling loops and ensure a dead band such as function block templates that restrict the setpoint input). During the normal periods, separate heating and cooling setpoints shall be calculated.
- 1. Normal space cooling setpoint: shall be the normal space temperature plus 2°F (adj.) Normal space heating setpoint: shall be the normal space temperature minus 2°F (adj.)
- The space temperature setpoints above shall be the only values changed by the operator to adjust space temperatures. All other deadbands, differentials, etc. shall be calculate the program logic (unless another means is provided to prohibit overlap of the heating and cooling loops and ensure a dead band such as function block templates that restrict th setpoint input). C. Discharge Air Setpoint: The discharge air setpoint will be reset by space temperature on a ratchet loop that increases and decreases the setpoint based upon variance fro
- space temperature. 1. Heating: The discharge air temperature will be reset from 68°F (adj.) to a fixed maximum of 95°F (adj.) based upon the variance of space temperature from setpoin Cooling: The discharge air temperature will be reset from 68°F (adj.) to a fixed minimum of 55°F (adj.) based upon the variance of space temperature from setpoint. 3. The BAS shall shut down the RTU through software and require a manual reset if the discharge air temperature falls below 40°F (adj.) for more than 1 minute. D. Supply Fan Enable: BAS shall control the fans as follows:
- 1. Start/Stop: BAS shall command the operation of the fan and it shall run continuously in occupied and night purge modes.] Unit shall cycle on as needed during the setback mode. 2. Proof: BAS shall prove fan operation and use the status indication to accumulate runtime. Upon failure of either fan, the BAS shall enunciate an alarm as specified above.
- E. Economizer Dampers: BAS shall control the dampers as follows: 1. Closed: When AH is deenergized, dampers shall remain in their "off" positions. When the unit is energized during the unoccupied period, the minimum damper positions
- flow rate shall be 0% / 0cfm. 2. Minimum Damper Position (constant): During the occupied period, applicable RA and OA dampers shall never be positioned less than the position set for the required minimum ventilation rate. This minimum position shall be determined by the Test & Balance Contractor. The BAS contractor shall coordinate with the T&B contractor and input the minimum
- position into the applicable controller logic. 3. Airside Economizer: BAS shall modulate the mixing dampers to provide "free cooling" when conditions merit. The free cooling shall generally be staged before any mechanical cooling. While conditions merit, dampers shall be modulated in a PID loop to maintain the mixed air temperature at its setpoint. The mixed air temperature setpoint shall be equ the discharge air temperature setpoint - 2°F. Economizer logic shall remain enabled during night purge where applicable. Economizer mode shall be active while the unit is energized AND outside air temperature falls below the switching setpoint of 70°F (adj.) (with 5F cycle differential). Economizer mode shall be inactive when outside air temperature rises above switching setpoint, dampers shall return to their scheduled minimum positions as specified above.
- F. Gas Heat: 1. The staging of the gas heater will be controlled locally by an integral control loop supplied with the RTU. The BAS will have the ability to reset the discharge air setpo 2. Or, the gas heater will be controlled via a PID loop to maintain the discharge temperature at the heating discharge temperature setpoint. The heating discharge temperature setp equal the discharge air temperature setpoint -2°F.
- G. DX Cooling: 1. The staging of the DX cooling system will be controlled locally by a integral control loop supplied with the RTU.
- 2. Or, the DX system will be controlled via a PID loop to maintain the discharge air temperature at the discharge temperature setpoint.
- H. Diagnostics: BAS execute the following diagnostic strategies as detailed in item 3.2 Air Handling Units General: Diagnostics. Diagnostic Logic strategies shall include: 1. Run Time Limit 2. DP Transmitter Filter Monitoring





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GLOBAL O HUMIDITY						ш													RE SWITCH		5			~	
DATA CONNECTION BAC net	NOTES	SYSTEM GRAPHIC CUSTOM REPORT	PAGING	TREND OPTIMAL START SCHEDULING	RUNTIME	OFF NORMAL AUTO ALARM SEQUENC		OTHER	OPEN/CLOSE ON/OFF	ENABLE/DISABLE START/STOP	i 5	SETPOINT VARIABLE SPEED	OTHER MODULATING	OVERRIDE	STATUS ALARM	HUMIDISTAT	CURRENT SWTICH THERMOSTAT	FLOW SWTICH	OTHER DIFFERENTIAL PRESSUF	POSITION FEEDBACK	AIRFLOW MEASUREMEN	PRESSURE	DITY SENS	TEMPERATURE SENSOR	
		x		x x																			x	EX	OUTSIDE AIR TEMPERATURE
		X		x x																		x	X	Y	OUTSIDE AIR HUMIDITY
		X		X X																x				R	OUTSIDE AIR DAMPER
	1	x x	×		(x x			x						x									R	TSIDE INCOMING AIR DAMPER
		X		x			x x												\square			X		E	BUILDING PRESSURE
<u>GENERAL NOTES:</u>		X			(x x										.	X		\vdash						THERMOSTAT - 40 DEGREES F
1. GOLD CONTACT RELAYS SHALL BE USED FOR ALL DIGIT.		X		X			x x								<u> </u>				\vdash						VING TEMPERATURE SENSOR
		X		X	,	<u> </u>	x x												\vdash	'			×		HOT GAS RE HEAT COIL
2. PILOT RELAYS SHALL BE USED FOR ALL DIGITAL OUTPU	1	x x x		x	x	x x		+ +		x				++					,		++	_			RE STATIC PRESSURE SWITCH
3. OPTICAL ISOLATION (ISOVERTERS) SHALL BE USED FOR		^	^	×	^					^				+					<u> </u>		++				SUPPLY FAN START-STOP
VFD'S OR ANY OTHER CONTROLLER/ANALYZER POWER	3			X		x		+						+	x		—	\rightarrow	\square		+				SUPPLY FAN VFD
4. GOLD CONTACT RELAYS FOR DI POINTS, PILOT RELAYS				<u>^</u>		^ X		+							^ X		—	+	\square	_	+				SUPPLY FAN VFD FAULT
BE LOCATED WITHIN THE LCP ENCLOSURE AND POWER		x		x				+			x			++		+	+	+	\square	'	+				SUPPLY FAN SPEED CONTROL
TRANSFORMERS.		x x	×		(x x								++	+	+		x			+				RE STATIC PRESSURE SWITCH
		x x				x x		+						++			x	+			+				THERMOSTAT - 35 DEGREES F
		x		x			x x							++		+	+	+			+		x	R X	VING TEMPERATURE SENSOR
		X		x			x x							++			\square						x	EX	SCHARGE AIR TEMPERATURE
		x		x			x x															x	x	Y	DISCHARGE AIR HUMIDITY
	2	x x	X		(x x									x									R	CHARGE AIR DUCT DETECTOR
		x		x			x x														x			N	SUPPLY AIR AIRFLOW
							x x												ι [x		L	



MAKE UP AIR UNIT DX COOLING / NATURAL GAS HEATING TYPICAL

KITCHEN HOOD CONTROL PANEL TO ENGAGE AND DISENGAGE MAKE UP AIR UNIT. MONITOR ONLY BY BAS.

GLOBAL O.A. BUILDING BUILDING O.A. HUMIDITY PRESSURE TEMPERATURE $\langle AI \rangle$ $\langle AI \rangle$ $\langle AI \rangle$ DATA CONNECTION < S.O.A.P BAC net

3. OPTICAL ISOLATION (ISOVERTERS) SHALL BE USED FOR ALL ANALOG INPUT POINTS AND ANALOG OUTPUT POINTS TO

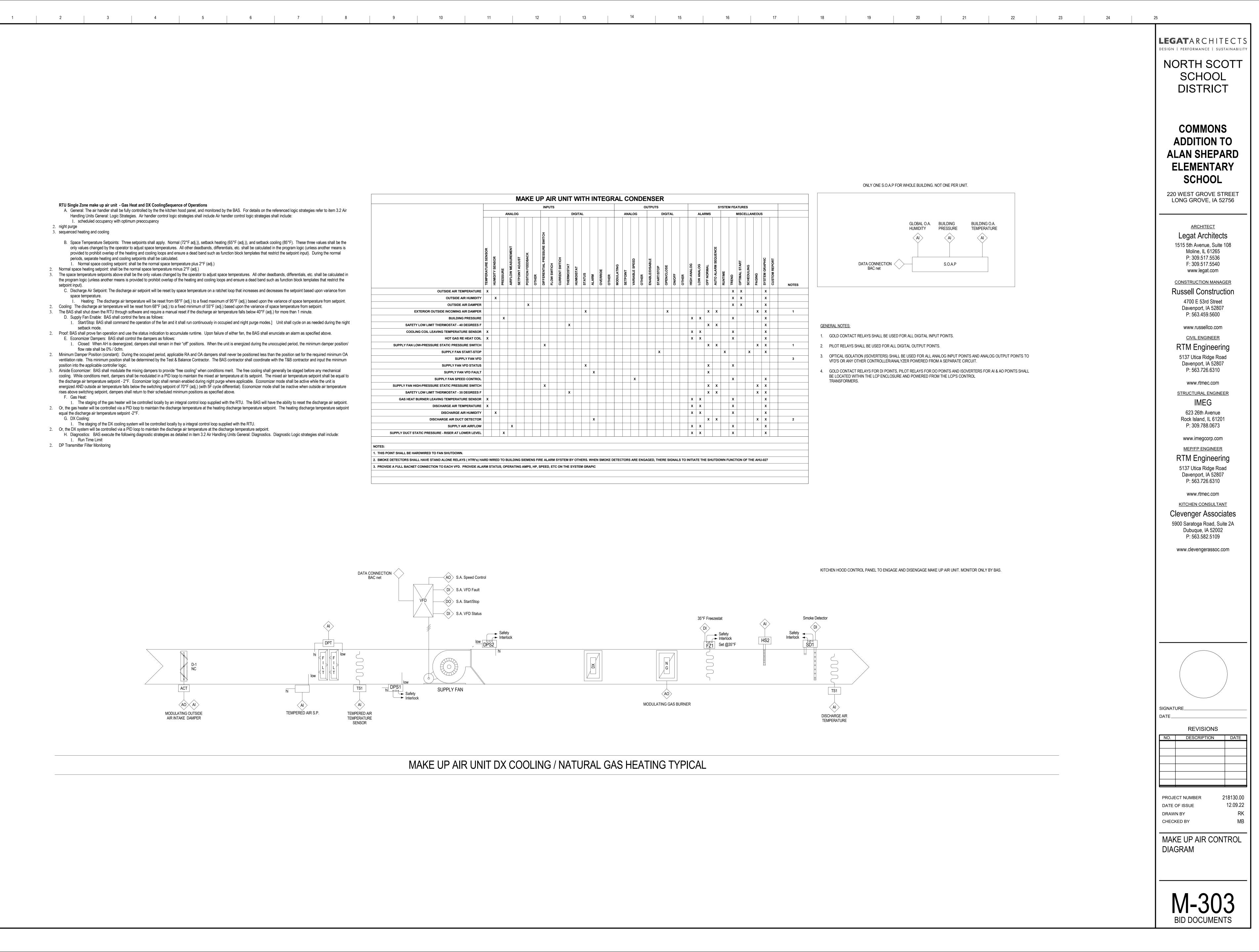
4. GOLD CONTACT RELAYS FOR DI POINTS, PILOT RELAYS FOR DO POINTS AND ISOVERTERS FOR AI & AO POINTS SHALL

1. GOLD CONTACT RELAYS SHALL BE USED FOR ALL DIGITAL INPUT POINTS.

VFD'S OR ANY OTHER CONTROLLER/ANALYZER POWERED FROM A SEPARATE CIRCUIT.

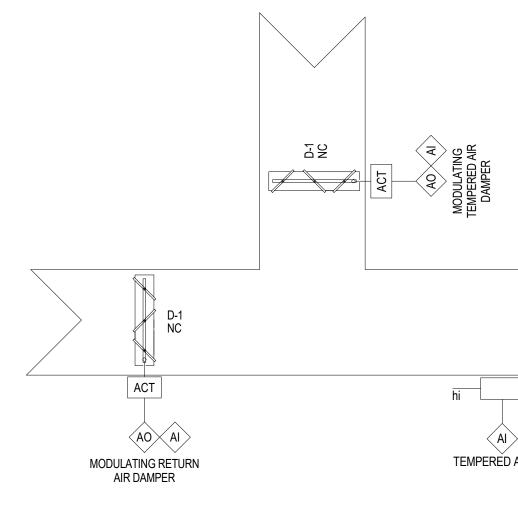
BE LOCATED WITHIN THE LCP ENCLOSURE AND POWERED FROM THE LCP'S CONTROL

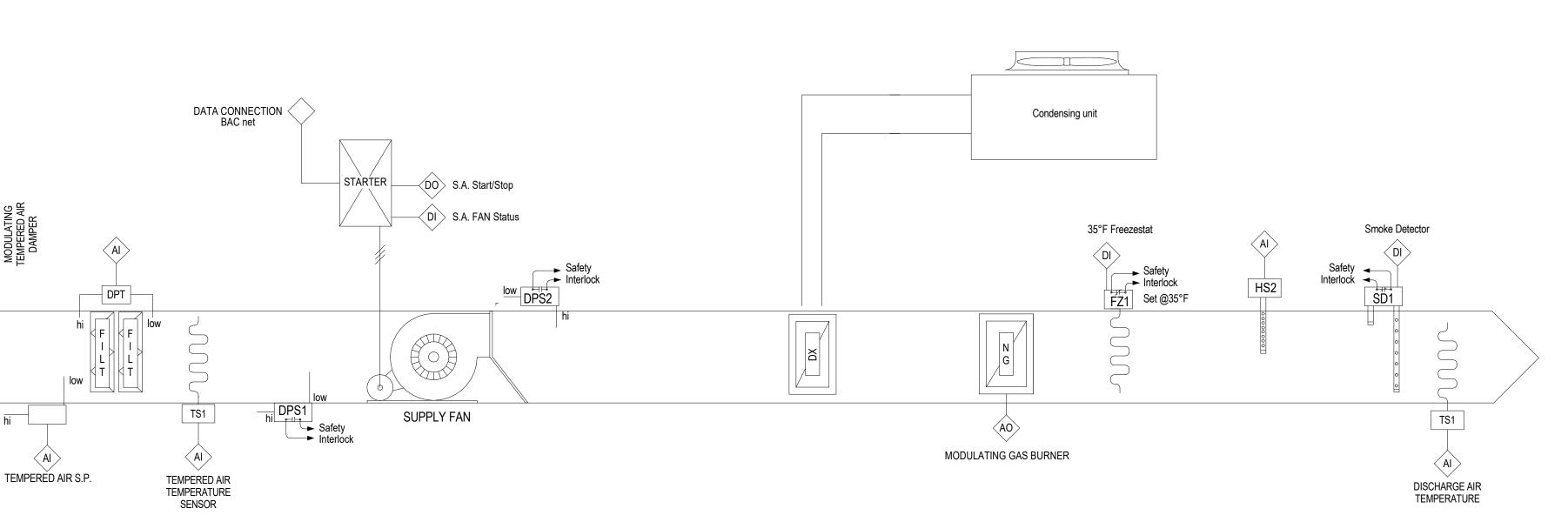
ONLY ONE S.O.A.P FOR WHOLE BUILDING. NOT ONE PER UNIT.



RTU Single Zone Air Handling Unit unit - Gas Heat and DX Cooling Sequence of Operations A. General: The air handler shall be fully controlled by local thermostat and monitored by the BAS. For details on the referenced logic strategies refer to item 3.2 Air Handling Units General: Logic Strategies. Air handler control logic strategies shall include Air handler control logic strategies shall include: 1. scheduled occupancy with optimum preoccupancy

- 2. sequenced heating and cooling B. Space Temperature Setpoints: Three setpoints shall apply. Normal (72°F adj.)), setback heating (65°F (adj.)), and setback cooling (85°F). These three values shall be the only values changed by the operator to adjust space temperatures. All other deadbands, differentials, etc. shall be calculated in the program logic (unless another means is provided to prohibit overlap of the heating and cooling loops and ensure a dead band such as function block templates that restrict the setpoint input). During the normal periods, separate heating and cooling setpoints shall be calculated.
- 1. Normal space cooling setpoint: shall be the normal space temperature plus 2°F (adj.) Normal space heating setpoint: shall be the normal space temperature minus 2°F (adj.)
- 3. The space temperature setpoints above shall be the only values changed by the operator to adjust space temperatures. All other deadbands, differentials, etc. shall be calculated in the program logic (unless another means is provided to prohibit overlap of the heating and cooling loops and ensure a dead band such as function block templates that restrict the setpoint input). C. Discharge Air Setpoint: The discharge air setpoint will be reset by space temperature on a ratchet loop that increases and decreases the setpoint based upon variance from space temperature.
- 1. Heating: The discharge air temperature will be reset from 68°F (adj.) to a fixed maximum of 95°F (adj.) based upon the variance of space temperature from setpoint. Cooling: The discharge air temperature will be reset from 68°F (adj.) to a fixed minimum of 55°F (adj.) based upon the variance of space temperature from setpoint. 3. The BAS shall shut down the AHU through software and require a manual reset if the discharge air temperature falls below 40°F (adj.) for more than 1 minute. D. Supply Fan Enable: BAS shall control the fans as follows:
- 1. Start/Stop: BAS shall command the operation of the fan and it shall run continuously in occupied. Unit shall cycle on as needed during the night setback mode. 2. Proof: BAS shall prove fan operation and use the status indication to accumulate runtime. Upon failure of either fan, the BAS shall enunciate an alarm as specified above. E. Economizer Dampers: BAS shall control the dampers as follows:
- 1. Closed: When AHU is deenergized, dampers shall remain in their "off" positions. When the unit is energized during the unoccupied period, the minimum damper position/ flow rate shall be 0% / 0cfm. 2. Minimum Damper Position (constant): During the occupied period, applicable RA and OA dampers shall never be positioned less than the position set for the required minimum OA
- ventilation rate. This minimum position shall be determined by the Test & Balance Contractor. The BAS contractor shall coordinate with the T&B contractor and input the minimum position into the applicable controller logic. 3. Airside Economizer: BAS shall modulate the mixing dampers to provide "free cooling" when conditions merit. The free cooling shall generally be staged before any mechanical cooling. While conditions merit, dampers shall be modulated in a PID loop to maintain the mixed air temperature at its setpoint. The mixed air temperature setpoint shall be equal to the discharge air temperature setpoint - 2°F. Economizer logic shall remain enabled during night purge where applicable. Economizer mode shall be active while the unit is energized AND outside air temperature falls below the switching setpoint of 70°F (adj.) (with 5F cycle differential). Economizer mode shall be inactive when outside air temperature rises above switching setpoint, dampers shall return to their scheduled minimum positions as specified above.
- F. Gas Heat: 1. The staging of the gas heater will be controlled locally by an integral control loop supplied with the RTU. The BAS will have the ability to reset the discharge air setpoint. 2. Or, the gas heater will be controlled via a PID loop to maintain the discharge temperature at the heating discharge temperature setpoint. The heating discharge temperature setpoint equal the discharge air temperature setpoint -2°F.
- G. DX Cooling: 1. The staging of the DX cooling system will be controlled locally by a integral control loop supplied with the RTU.
- 2. Or, the DX system will be controlled via a PID loop to maintain the discharge air temperature at the discharge temperature setpoint. H. Diagnostics: BAS execute the following diagnostic strategies as detailed in item 3.2 Air Handling Units General: Diagnostics. Diagnostic Logic strategies shall include: 1. Run Time Limit
- 2. DP Transmitter Filter Monitoring

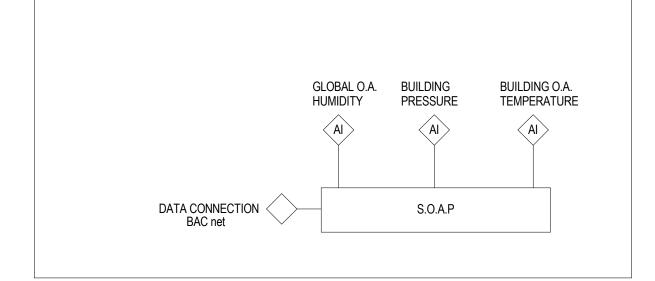




GAS FIRED FURNACE WITH A-COIL AND REMOTE CONDENSING UNIT

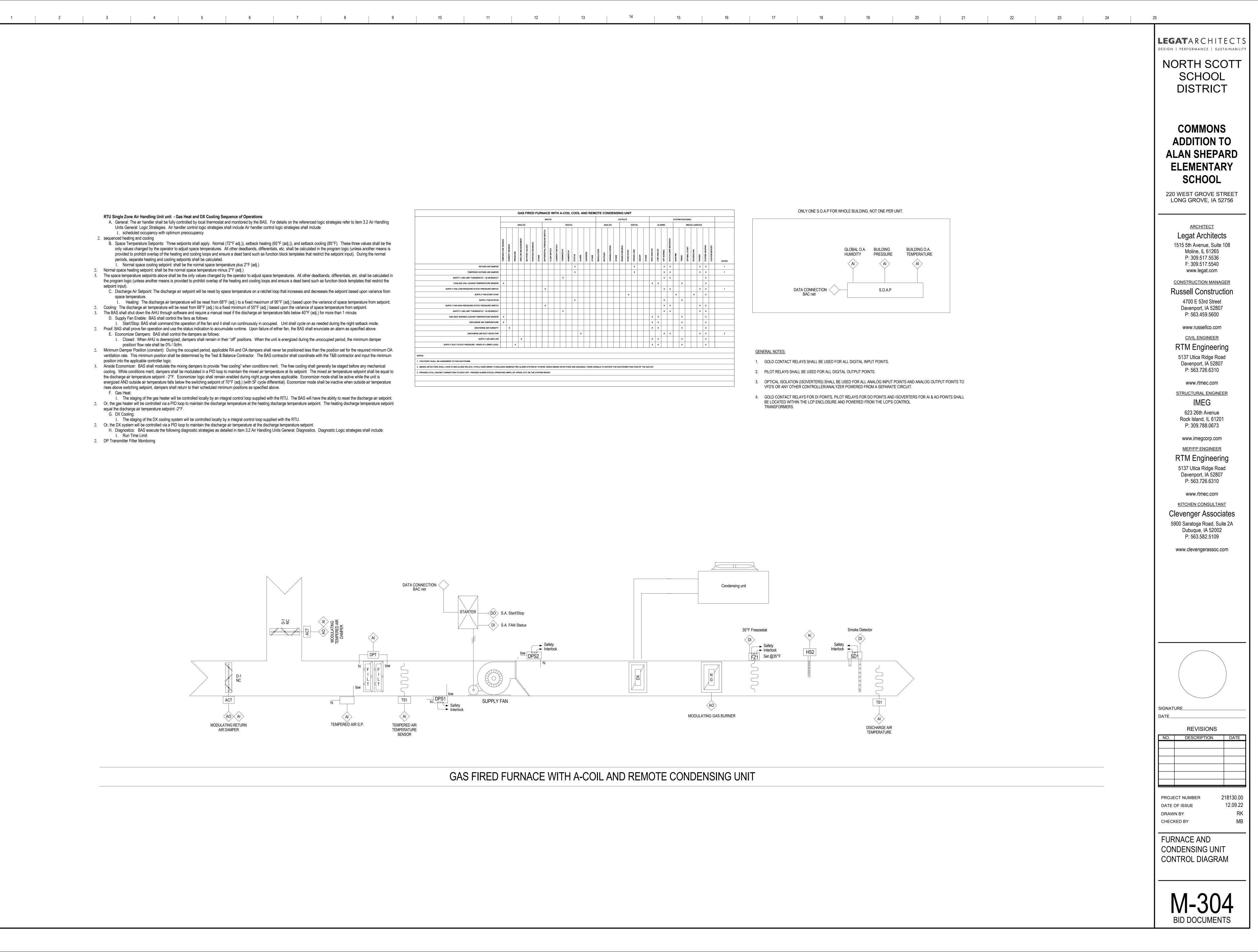
							INP	UTS										OUT	FPUTS	;						5	SYSTEM FEA	TURES				
		_,		ANALOG						DIGI	TAL		-			ANAL	G			DIGI	TAL			ALA	RMS			MISC	ELLAN	ous		
	TEMPERATURE SENSOR	HUMIDITY SENSOR	PRESSURE	AIRFLOW MEASUREMENT	POSITION FEEDBACK	OTHER	DIFFERENTIAL PRESSURE SWITCH	FLOW SWTICH	CURRENT SWTICH	THERMOSTAT	STATUS	ALARM	OVERRIDE	OTHER	MODULATING		VARIABLE SPEED	OTHER	ENABLE/DISABLE	START/STOP OPEN/CLOSE	ON/OFF	OTHER	HIGH ANALOG	LOW ANALOG	OFF NORMAL	AUTO ALARM SEQUENCE	RUNTIME TREND	OPTIMAL START	SCHEDULING	PAGING	SYSTEM GRAPHIC	CUSTOM REPORT
RETURN AIR DAMPER	2)	< ()	(x	x				x	x	1
TEMPERED OUTSIDE AIR DAMPER	2)	•								>					x	x				x	x	1
SAFETY LOW LIMIT THERMOSTAT - 40 DEGREES F	-									x															x	x					x	
COOLING COIL LEAVING TEMPERATURE SENSOR	x x																						x	x			x				x	
SUPPLY FAN LOW-PRESSURE STATIC PRESSURE SWITCH	1						x																		x	x				x	x	1
SUPPLY FAN START-STOP	•																			x							x		x		x	
SUPPLY FAN STATUS	3)	(x		x					
SUPPLY FAN HIGH-PRESSURE STATIC PRESSURE SWITCH	1						x																		x	x				x	x	
SAFETY LOW LIMIT THERMOSTAT - 35 DEGREES F	-									x															x	x				x	x	
GAS HEAT BURNER LEAVING TEMPERATURE SENSOR	x x																						x	x			x				x	
DISCHARGE AIR TEMPERATURE	= x																						x	x			x				x	
DISCHARGE AIR HUMIDITY	(x																					x	x			x				x	
DISCHARGE AIR DUCT DETECTOR	2											x													x	x				x	x	2
SUPPLY AIR AIRFLOW	v			x																			x	x			x				x	
SUPPLY DUCT STATIC PRESSURE - RISER AT LOWER LEVEL	-		x																				x	x			x				x	

ONLY ONE S.O.A.P FOR WHOLE BUILDING. NOT ONE PER UNIT.



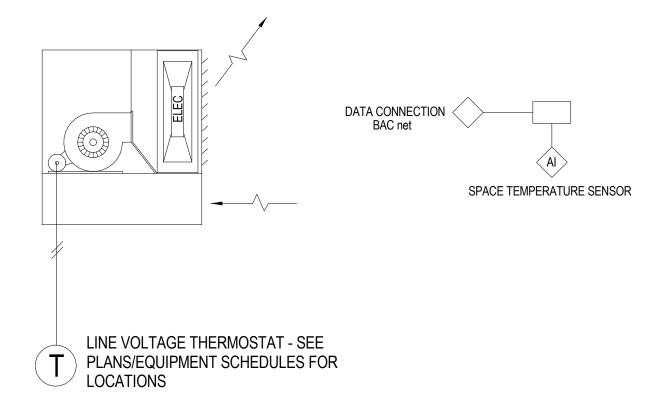
GENERAL NOTES:

- 1. GOLD CONTACT RELAYS SHALL BE USED FOR ALL DIGITAL INPUT POINTS.
- 2. PILOT RELAYS SHALL BE USED FOR ALL DIGITAL OUTPUT POINTS.
- 3. OPTICAL ISOLATION (ISOVERTERS) SHALL BE USED FOR ALL ANALOG INPUT POINTS AND ANALOG OUTPUT POINTS TO VFD'S OR ANY OTHER CONTROLLER/ANALYZER POWERED FROM A SEPARATE CIRCUIT.
- 4. GOLD CONTACT RELAYS FOR DI POINTS, PILOT RELAYS FOR DO POINTS AND ISOVERTERS FOR AI & AO POINTS SHALL BE LOCATED WITHIN THE LCP ENCLOSURE AND POWERED FROM THE LCP'S CONTROL TRANSFORMERS.



	1	2	3	4	5	6	7	
A								
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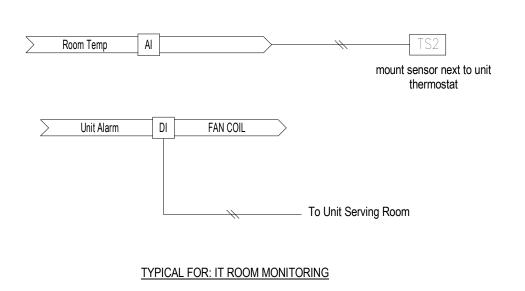
			HAR RED NTS		ВА	S AF	PLI	CATI	ON	1	LAR CEN			Р		ARM RITIE		
CONTROL POINTS	BINARY INPUTS (DI)	BINARY OUTPUTS (DO)	ANALOG INPUTS (AI)	ANALOG OUTPUTS (AO)	TREND LOGGING	RUN TIME ACCUMULATION	OPERATION SCHEDULE	SCREEN DISPLAYED	USER OVERRIDE	OUT OF RANGE	POINT STATUS	COMMAND FAILURE	CALCULATED EVENT	NOTIFICATION	MINOR	MAJOR	CRITICAL	NOTES
ZONE SPACE TEMPERATURE			x		x					x					x			
ZONE SPACE TEMPERATURE SET POINT			x		x					x					x			



ELECTRIC HEATER CONTROL DIAGRAM

1.1 UNIT HEATER - ELECTRIC A. GENERAL: A UNIT MOUNTED THERMOSTAT WILL CYCLE THE FAN TO MAINTAIN AN ADJUSTABLE SPACE TEMPERATURE SETPOINT.
B. MONITORING TO BAS THROUGH A REMOTE DDC SENSOR AS INTEGRATION WILL BE DIFFICULT.

CONTROL POINTS	BINARY INPUTS (DI)	BINARY OUTPUTS (DO)	ANALOG INPUTS (AI)	ANALOG OUTPUTS (AO)	TREND LOGGING	RUN TIME ACCUMULATION	OPERATION SCHEDULE	SCREEN DISPLAYED	USER OVERRIDE	OUT OF RANGE	POINT STATUS	COMMAND FAILURE	CALCULATED EVENT	NOTIFICATION	MINOR	MAJOR	CRITICAL	NOTES
	λ INF	V OU		0 90		IME	TIO	N DIS	DVER	F RA	STA ¹	IANE	LATE	ICATI	~	~	AL	S
	INPUT	OUTPI		G OUTP	LOGGIN	ME ACC		DISPL/	VERRID	: RANGI	STATUS	AND FA	ATED E	CATION			١٢	
	TS (DI)	PUTS (D	UTS (AI)	rPUTS (∕	DN N	CUMUL	SCHEDU	LAYED	DE	35	S	AILURE	EVENT	z				
CONTROL POINTS		(00	-	(AO)		ILATION	JLE					ш						
						Z												
		POI	NTS		BA	IS AF	PLIC		ON	S	CEN	ARIC	DS	Р	RIO	RITIE	ES	
			RED							1 -	LAR		-			RM		



MDF - SPLIT SYSTEM DIAGRAM

GENERAL NOTES:

1. THERMOSTATIC SENSOR TIED INTO BAS FOR ROOM TEMPERATURE MONITORING.

2. ALARM TO BE ENGAGED WHEN ROOM TEMPERATURE EXCEEDS 85F



WEATHER CAP SCHEDULE TAG LOCATION DUCT DIAMETER CFM WEIGHT (LBS) MANUFACTURER MODEL NO. REMARKS CAP 1 7 GREENHECK GRSR-8 ROOF 6" 70 ALL REMARKS:

PROVIDE BACKDRAFT DAMPER AND BIRDSCREEN AT CONNECTION TO CAP. FLASH CAP 12" CURB ON ROOF. CAP TO HAVE A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKES.

				EXH/	AUST FAI	N SCHE	DULE						
				E.S.P. (IN.		MOTOR	DATA			WEIGHT			
TAG	TYPE	SERVICE	CFM	W.C.)	HP	RPM	۷	PH	HZ	(LBS)	MANUFACTURER	MODEL NO.	REMARKS
EF 038A	EXHAUST FAN	ELECTRICAL VO3	100	0.10	0.01	950	120	1	60	16	GREENHECK	CSP-A110	1-4,7
KEF 39A	EXHAUST FAN	KITCHEN 39	1280	0.21	0.25	0	120	1	60	61	GREENHECK	CUE-140-VG	3,7,8
KEF 39B	EXHAUST FAN	KITCHEN 39	1280	0.21	0.25	0	120	1	60	61	GREENHECK	CUE-140-VG	3,7,8
EF T12	EXHAUST FAN	TOILET T12	400	0.20	0.04	1050	120	1	60	29	GREENHECK	G-090-G	1-3,5,6,7
EF T13	EXHAUST FAN	TOILET T13	70	0.25	0.01	838	120	1	60	12	GREENHECK	SP-A50-90-VG	1-5
EF T14	EXHAUST FAN	TOILET T13	70	0.25	0.01	838	120	1	60	12	GREENHECK	SP-A50-90-VG	1-5
EF V03	EXHAUST FAN	ELECTRICAL VO3	100	0.10	0.01	950	120	1	60	16	GREENHECK	CSP-A110	1-3,7,9,10

1 2 3 4 5 6 7 8

REMARKS: PROVIDE FAN WITH MOTOR STARTER, AND BACKDRAFT DAMPER. EXHAUST FAN TO BE TIED INTO BAS SYSTEM.

ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECTS FOR EQUIPMENT.

EXHAUST FAN TO BE CONTROLLED BY LIGHT SWITCH IN ROOM. ROOF CURB TO BE A MINIMUM OF 24" PREMANUFACTURED. NON PREMANUFACTURED WILL BE ACCEPTED AS LONG AS IT HAS INSULATION TO MEET LOCAL ENERGY CODES. EXHAUST FAN TO RUN CONTINUOUSLY DURING OCCUPIED HOURS. MECHANICAL CONTRACTOR TO PROVIDE MOTOR STARTER.

EXHAUST FAN TO BE TIED INTO KITCHEN HOOD. WHEN SWITCH ENGAGES FOR HOOD. EXHAUST FAN TURNS ON. EXHAUST FAN TO BE CONTROLLED BY THERMOSTAT IN ROOM. THERMOSTAT TO BE SET FOR 85F.

EXHAUST FAN TO CONTROL LOUVER V03 WHEN EXHAUST FAN TURNS ON LOUVER TO OPEN. 10

				MIN	I SPLIT INDO	JR UN	II SCH	IEDULE	-					
			COOL	ING CAP.	FAN/MOTOR DATA		ELEC	TRICAL D	ATA					
	ASSOCIATED		GROSS	SENSIBLE	SUPPLY						WEIGHT			
TAG	OUTDOOR UNIT	LOCATION	(MBH)	(MBH)	SA (CFM)	MCA	MOCP	VOLTS	PH	HZ	(LBS)	MANUFACTURER	MODEL NO.	REMARKS
FC 42	CU 42	IDF 42	36	34	810	1.0	15	208	1	60	46	TRANE	TPKA-A36KA7	ALL
-	OUNT INDOOR UNIT 12 OVIDE LOW AMBIENT				POSED KIT MATCH	HING UN	IT COLC	R. PROVI	DE WI	TH MOU	JNTING BF	ACKETS/SUPPORTS	S AS NEEDED.	
ELE	ECTRICAL CONTRACT	OR TO PROVIDE D	DISCONNECT S	WITCH.										
MA	INTAIN MANUFACTUR	RER'S MINIMUM CL	EARANCES.											
PR	OVIDE LIQUID AND GA	AS SIDE PIPING PE	R MANUFACTI	JRER'S RECOMM	ENDATIONS WITH	1/2" FO/	AM INSU	JLATION.						

LOW AMBIENT OPERATION TO -10 DEG F INDOOR UNIT POWERED OFF OUTDOOR UNIT.

							HEDU						
		REFRIGERA	NT DATA		COOLING DATA		ELECT	RICAL DA	ATA				
						SECT	ION 1				WEIGHT		
TAG I	LOCATION	CHARGE (LBS)	TYPE	SEER/EER	CAPACITY (MBH)	MCA	MOCP	VOLTS	PH	HZ	(LBS)	MANUFACTURER	MODEL NO.
CU 42	ROOF	7	R-410A	18.8/10.8	36	25.0	30.0	208	1	60	211	MITSUBISHI	PUY-A36NKA

ELECTRICAL CONTRACTOR TO PROVIDE NEMA RATED DISCONNECT SWITCH.

MAINTAIN MANUFACTURER'S MINIMUM CLEARANCES. PROVIDE LIQUID AND GAS SIDE PIPING PER MANUFACTURER'S RECOMMENDATIONS WITH 1/2" FOAM INSULATION.

LOW AMBIENT OPERATION TO -10 DEG F INDOOR UNIT POWERED OFF OUTDOOR UNIT.

UNIT TO BE MOUNTED ON ROOF PER MANUFACTURER'S INSTRUCTION. PROVIDE MOUNTING PAD, RAILS, OR 24" CURB.

				INLET SIZE (IN)		FRAM	E SIZE			
TAG	AIR STREAM	MOUNTING TYPE	DIA.	HEIGHT	WIDTH	HEIGHT	WIDTH	MANUFACTURER	MODEL NO.	R
А	SUPPLY	CEILING	6"			2' - 0"	2' - 0"	TITUS	OMNI	
В	SUPPLY	CEILING	8"			2' - 0"	2' - 0"	TITUS	OMNI	
С	RETURN	CEILING	6"			2' - 0"	2' - 0"	TITUS	PAR	
D	RETURN	CEILING	10"			2' - 0"	2' - 0"	TITUS	PAR	
E	RETURN	CEILING	8"			2' - 0"	2' - 0"	TITUS	PAR	
F	EXHAUST	CEILING	10"			2' - 0"	2' - 0"	TITUS	PAR	
G	SUPPLY	DUCT		4"	18"	0' - 5 1/2"	1' - 7 1/2"	TITUS	S-DL	
Н	SUPPLY	DUCT		4"	12"	0' - 5 1/2"	1' - 1 1/2"	TITUS	S-DL	
I	SUPPLY	DUCT		8"	8"	0' - 9 1/2"	0' - 9 1/2"	TITUS	301FL	
J	EXHAUST	DUCT		8"	8"	0' - 9 1/2"	0' - 9 1/2"	TITUS	350RL	
K	SUPPLY	DUCT		14"	14"	1' - 3 1/2"	1' - 3 1/2"	TITUS	301FL	

<u>REMARKS:</u> 4-WAY THROW UNLESS OTHERWISE NOTED.

PROVIDE ADAPTOR BOOTS AS REQUIRED. PROVIDE WITH MANUAL VOLUME BALANCE DAMPER. COORDINATE FRAME STYLES WITH ARCHITECTURAL PLANS.

REFER TO PLAN FOR FACE AND DUCT SIZING. RETURN GRILLE TO HAVE LINED ELBOW BOOT FOR PLENUM RETURN SOUND ATTENUATION.

LOUVER SCHEDULE

			FLOW RATE	FACE VELOCITY	FREE	WIDTH	HEIGHT			
TAG	AIR STREAM	STYLE	(CFM)	(FPM)	AREA (SF)	(IN.)	(IN.)	MANUFACTURER	MODEL NO.	REMARKS
L V03	INTAKE	COMBINATION	100	570	0.40	14	14	GREENHECK	ESD-635-14X14	ALL

LOUVER TO BE UL LISTED 2. LOUVER TO BE CONTROLLED BY EXHAUST FAN. LOUVER TO OPEN WHEN FAN TURNS ON.

												GAS FI	RED/ D	IREC	T EXPANSION	N MAKE	EUP AIF	R UNIT	SCHE	EDULE (MAU)															
TAC			REFRIGE	RANT DATA	000000000000000000000000000000000000000)ESIGN A /IPERATU				CO	OLING CA	PACITY				HEAT	TING CAP	ACITY			FAN/	мотоі	R DATA			TERS		ELEC	RICAL	DATA		WEIGH		NODELNO	DEMARKO
IAG	LOCATION	SERVICE	TYPE	CHARGE	SEER/EER/IEER	SUN	IMER	WINTER	GROSS	SENSIBLE	EAT	EAT	LAT	LAT	COMPRESSOR	INPUT	OUTPUT	EAT	LAT				,	RPM	E.S.P.	TYPE	WIDTH	MCA	моср	v	ווס	117	(LBS)		MODEL NO.	REMARKS
			ITPE	(LBS)		DB°F	WB°F	DB°F	(MBH)	(MBH)	(DB°F)	(WB°F)	(DB°F) (WB°F)	QTY	(MBH)	(MBH)	(DB°F)) (DB°l	°F) AFUE	% 3A C F	IM HF		RPIN	(IN-W.C.)	ITPE	(IN)	MCA	NIUCP	v	РП					
MAU 39	ROOF	KITCHEN HOOD	R-410A	46	-/11.5/-	92	75	-7	183	102	92	75	50	50	2	216	200	-7	90) 92	2100) 2		1208	1.50	MERV 8	2	83	110	208	3	60	2911	TRANE	OAGD210E3	ALL
REMARKS.																																				
REMARKS:																																				

1 YEAR PARTS WARRANTY. 10 YEAR TOTAL GAS HEAT EXCHANGER WARRANTY. PROVIDE VFDS ON ALL FAN MOTORS. ECM MOTORS WILL BE ACCEPTED AS EQUAL.

HOT GAS REHEAT REQUIRED, FULL ENTHALPY ECONOMIZER.

PROVIDE UNIT POWERED 115V GFI RECEPTACLE.

MAU TO BE PROVIDED WITH FACTORY MOUNTED DISCONNECT SWITCH. REFER TO CONTROL DRAWINGS COORDINATE FOR ALL CONTROL DAMPERS AND CONTROL POINTS NEEDED. BIDDING CONTRACTOR TO COORDINATE WHAT IS TO BE PROVIDED BY FACTORY AND WHAT IS TO BE PROVIDED BY TEMPERATURE CONTROLS CONTRACTOR.

												GA	s fired	D/ DIRECT	EXPAI	NSION I	DEDICATI	ed outdo	or air ui	NIT SCHE	EDULE (DOAS)											
						DESIGN AI																										
			REFRIGE	RANT DATA	TEN	IPERATU	RES		COC	LING CAP	ACITY			HEAT	ING CAP	ACITY			FAN/MO	OTOR DATA	۱ <u>.</u>	FILTERS	S		ELECTRI	CAL DAT	۹					
			REFRIGERATION	REFRIGERATION	SUM	IMER	WINTER	GROSS	SENSIBLE	EAT	EAT LA	r lat	INPUT	OUTPUT	EAT	LAT						FINAL						WF	EIGHT			
TA	G LO	OCATION	TYPE	CHARGE (LBS)	DB°F	WB°F	DB°F	(MBH)	(MBH)	(DB°F) (N	WB°F) (DB°	F) (WB°F)	(MBH)	(MBH)	(DB°F)	(DB°F)	AFUE %	SA CFM	HP	RPM	E.S.P. (IN W.C.)	TYPE	WIDTH (IN)	MCA	MOCP	V	PH	HZ (l	LBS) N	MANUFACTURER	MODEL NO.	REMARKS
DOA	\S1 F	ROOF	R-410A	50.7	95	76	-10	245	1335	95	76 52	52	400	320	-10	78	80	3000	2	1609	1.34 in-wg	MERV 8	2	84	110	208	3	60 3	3523	TRANE	OADG020C1	ALL

PROVIDE VFDS ON ALL FAN MOTORS. ECM MOTORS WILL BE ACCEPTED AS EQUAL. HOT GAS REHEAT REQUIRED.

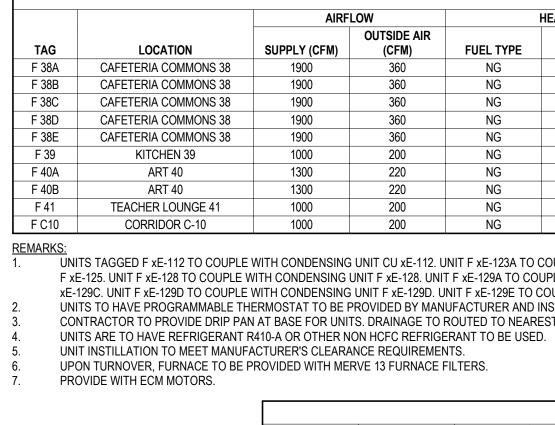
DUCT MOUNTED HUMIDITY SENSOR. MODULATING GAS HEAT 10:1 TURN DOWN MINIMUM. PROVIDE UNIT POWERED 115V GFI RECEPTACLE.

1 YEAR PARTS WARRANTY. 5 YEAR TOTAL COMPRESSOR WARRANTY.

10 YEAR TOTAL GAS HEAT EXCHANGER WARRANTY. DOAS TO BE PROVIDED WITH FACTORY MOUNTED DISCONNECT SWITCH. ROOF CURB TO BE A MINIMUM OF 24".

						UMC 201	5 SCHEDULE							
				DEFAULT			UMC 2015 F	REQUIREMENTS			ACTUAL		EQUI	PMENT
ROOM NUMBER	ROOM NAME	FLOOR AREA (SF)	OCCUPANCY CLASSIFICATION	OCCUPANCY (#/1000 SF)	PEOPLE	OA (CFM/PERSO N)	OA (CFM/SF)	OA (CFM)	EA (CFM)	SUPPLY (CFM)	OA (CFM)	EXHAUST (CFM)	SUPPLY FAN	EXHAUST FAN
038	CAFETERIA COMMONS	4974 SF	CAFETERIA	100	120	7.5	0.18	1795	0	9300 CFM	1800	0 CFM	F 38A,B,C,D,E,	-
038A	CUSTODIAL	119 SF	STORAGE ROOMS	0	0	0	0.12	14	0	75 CFM	15	0 CFM	F 38E	-
038B	TABLE STORAGE	201 SF	STORAGE ROOMS	0	0	0	0.12	24	0	125 CFM	25	0 CFM	F 38E	-
038C	CC STOR	137 SF	STORAGE ROOMS	0	0	0	0.12	16	0	90 CFM	18	0 CFM	F 38E	-
039	KITCHEN	1307 SF	KITCHENS (COOKING)	20	8	7.5	0.12	217	0	1500 CFM	2330	0 CFM	F39 ,MAU 39	-
040	ART	1198 SF	ART CLASSROOM	20	22	10	0.18	436	0	2400 CFM	440	0 CFM	F40A,B, MAU 40	-
040A	ART STORAGE	134 SF	STORAGE ROOMS	0	0	0	0.12	16	0	100 CFM	20	0 CFM	F 40B	-
040B	KILN	101 SF	STORAGE ROOMS	0	0	0	0.12	12	0	100 CFM	15	0 CFM	F40B	-
041	TEACHER LOUNGE	734 SF	OFFICE SPACES	5	10	5	0.06	94	0	1000 CFM	200	0 CFM	F 41	-
042	IDF	63 SF	STORAGE ROOM (INACTIVE)	0	0	0	0.00	0	0	0 CFM	0	0 CFM	FC 42	-
043	KINDER STORAGE	138 SF	STORAGE ROOMS	0	0	0	0.12	17	0	100 CFM	20	0 CFM	F 38E	-
C10-1	CORRIDOR-1	1437 SF	CORRIDORS	0	0	0	0.06	86	0	725 CFM	145	0 CFM	F C10	-
T10	HANDWASH	203 SF	TOILET ROOMS - PUBLIC	0	0	0	0.00	0	0	125 CFM	25	0 CFM	F C10	-
T11	GIRLS	200 SF	TOILET ROOMS - PUBLIC	0	0	0	0.00	0	280	150 CFM	30	300 CFM	F C10	EF EX-137
T12	BOYS	209 SF	TOILET ROOMS - PUBLIC	0	0	0	0.00	0	280	150 CFM	30	300 CFM	F C10	EF EX-137
T13	UNISEX TOILET	59 SF	TOILET ROOMS - PUBLIC	0	0	0	0.00	0	70	0 CFM	0	75 CFM	F C10	EF XE-132
T14	STAFF TOILET	59 SF	TOILET ROOMS - PUBLIC	0	0	0	0.00	0	70	0 CFM	0	75 CFM	-	EF XE-133
V05	VEST	72 SF	VESTIBULE	0	0	0	0.00	0	0	0 CFM	0	0 CFM	EWH V05	-
TOTALS		11344 SF	1	1	160			2728	1	15940 CFM	5113	750 CFM		1

REMARKS 1-5 1-5 2,4-6 2,4-6 2,4-5 1-5 1-5 1-5



				ELECTRIC WALL	HEATER							
	LOCATION			HEATING CAPACITY (KW)	E	LECTRICAL D	ATA		WEIGHT	MANUFACTURER	MODEL NO.	REMAR
TAG	LUCATION	WOUNTING TIPE		REATING CAPACITT (NW)	AMPS	VOLTS	PH	HZ	(LBS)	WANUFACIURER	MODEL NO.	REIMA
EWH V02	VESTIBULE V02	RECESSED	160	1.5	7.6	208	1	60	24	INDEECO	WAI	ALL
EWH V03	ELECTRICAL V03	RECESSED	160	2.0	10.0	208	1	60	24	INDEECO	WAI	ALL
EWH V05	VESTIBULE V05	RECESSED	160	1.5	7.6	208	1	60	24	INDEECO	WAI	ALL

PROVIDE INTERNAL THERMOSTAT. COLOR TO BE DETERMINED AND APPROVED BY AOR. CABINET HEATER TO BE WALL RECESSED MOUNTED. UNITS TO BE TIED INTO BAS SYSTEM FOR MONITORING.

REMARKS:

GAS FURNACE SCHEDULE

	AIRF	LOW		HEATING CAPACIT	Y		E	LECTRICAL	DATA						
	SUPPLY (CFM)	OUTSIDE AIR (CFM)	FUEL TYPE	INPUT (MBH)	OUTPUT (MBH)	HP	MCA	МОСР	VOLTS	PHASE	HZ	WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
NS 38	1900	360	NG	80.00	77.60	1	14.10	15	120	1	60	149	TRANE	S9X1C080U5PSBA	ALL
NS 38	1900	360	NG	80.00	77.60	1	14.10	15	120	1	60	149	TRANE	S9X1C080U5PSBA	ALL
NS 38	1900	360	NG	80.00	77.60	1	14.10	15	120	1	60	149	TRANE	S9X1C080U5PSBA	ALL
NS 38	1900	360	NG	80.00	77.60	1	14.10	15	120	1	60	149	TRANE	S9X1C080U5PSBA	ALL
NS 38	1900	360	NG	80.00	77.60	1	14.10	15	120	1	60	149	TRANE	S9X1C080U5PSBA	ALL
	1000	200	NG	80.00	77.60	1	14.10	15	120	1	60	122	TRANE	S9X1C080U5PSBA	ALL
	1300	220	NG	39.00	37.80	0.75	11.30	15	120	1	60	122	TRANE	S9X2B060U4PSBA	ALL
	1300	220	NG	39.00	37.80	0.75	11.30	15	120	1	60	122	TRANE	S9X2B060U4PSBA	ALL
E 41	1000	200	NG	80.00	77.60	1	14.10	15	120	1	60	122	TRANE	S9X1C080U5PSBA	ALL
0	1000	200	NG	80.00	77.60	1	14.10	15	120	1	60	122	TRANE	S9X1C080U5PSBA	ALL

1. UNITS TAGGED F xE-112 TO COUPLE WITH CONDENSING UNIT CU xE-112. UNIT F xE-123A TO COUPLE WITH CONDENSING UNIT F xE-123B TO COUPLE WITH CONDENSING UNIT F xE-123B. UNIT F xE-123A. UNIT F xE-123A. UNIT F xE-123B. UNIT F xE F xE-125. UNIT F xE-128 TO COUPLE WITH CONDENSING UNIT F xE-128. UNIT F xE-129A TO COUPLE WITH CONDENSING UNIT F xE-129B TO COUPLE WITH CONDENSING UNIT F xE-129C TO COUPLE WITH CONDENSING UNIT F xE-129A. UNIT F xE-129B TO COUPLE WITH CONDENSING UNIT F xE-129C TO COUPLE WITH CONDENSING UNIT F xE-129A. xE-129C. UNIT F xE-129D TO COUPLE WITH CONDENSING UNIT F xE-129D. UNIT F xE-129E TO COUPLE WITH CONDENSING UNIT F xE-129E. UNIT F xE-137. TO COUPLE WITH CONDENSING UNIT F xE-137. UNITS TO HAVE PROGRAMMABLE THERMOSTAT TO BE PROVIDED BY MANUFACTURER AND INSTALLED BY CONTRACTOR. CONTRACTOR TO PROVIDE DRIP PAN AT BASE FOR UNITS. DRAINAGE TO ROUTED TO NEAREST FLOOR DRAIN.

UNIT INSTILLATION TO MEET MANUFACTURER'S CLEARANCE REQUIREMENTS. UPON TURNOVER, FURNACE TO BE PROVIDED WITH MERVE 13 FURNACE FILTERS.

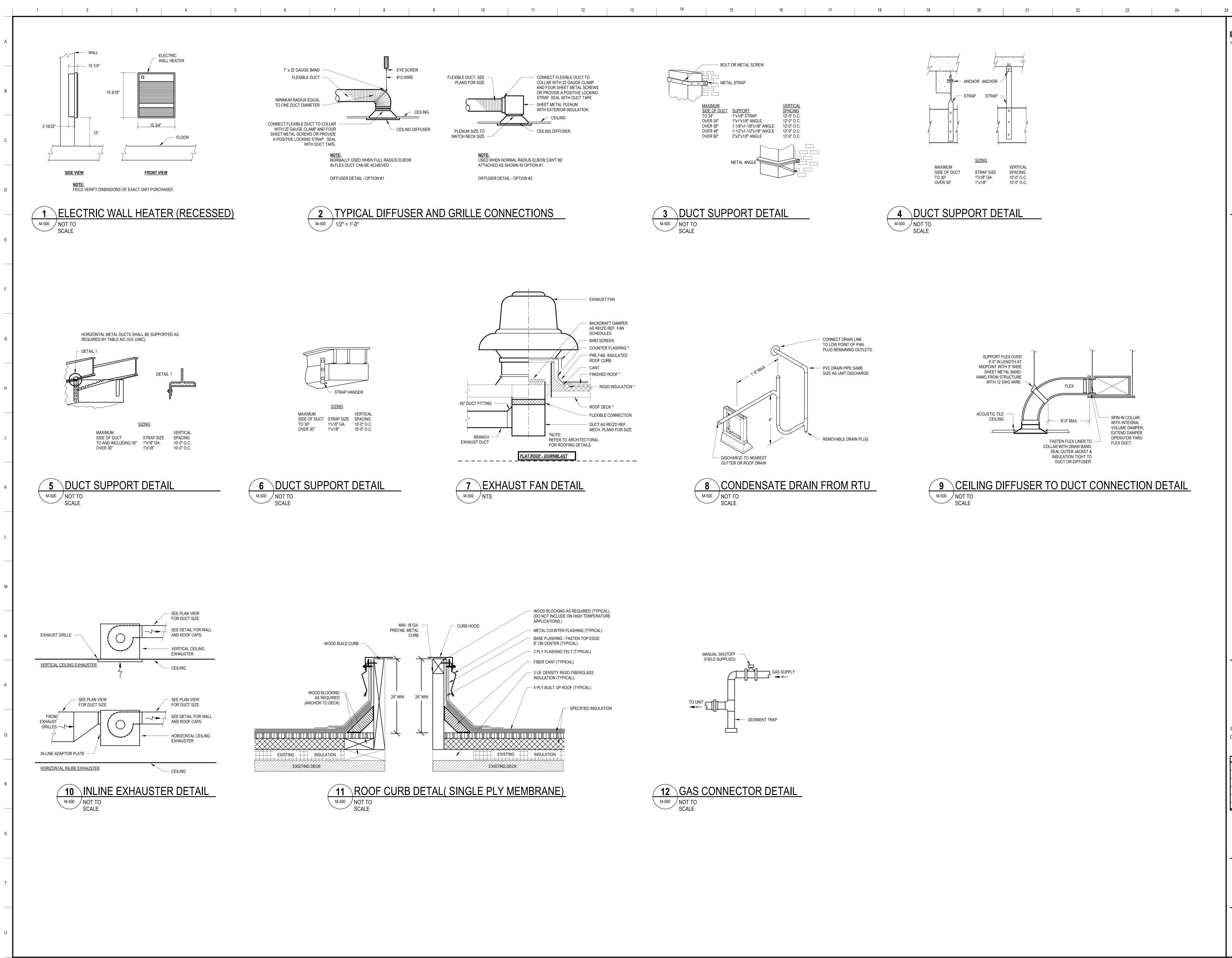
					COND	ENSING UNIT	SCHE	DULE							
		REFRIC	GERANT		COOLIN	IG DATA		ELECT	RICAL DA	ATA					
TAG	INDOOR UNIT SERVED	TYPE	CHARGE (LBS)	EER / SEER	OA (DB°F)	CAPACITY (MBH)	МСА	МОСР	v	PH	HZ	UNIT WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
CU 38A	F 38A	R-410A	12.5	12.2/16	95	58.7	22	35	208	3	60	271	TRANE	4TTA7060A3000A	ALL
CU 38B	F 38B	R-410A	12.5	12.2/16	95	58.7	22	35	208	3	60	271	TRANE	4TTA7060A3000A	ALL
CU 38C	F 38C	R-410A	12.5	12.2/16	95	58.7	22	35	208	3	60	271	TRANE	4TTA7060A3000A	ALL
CU 38D	F 38D	R-410A	12.5	12.2/16	95	58.7	22	35	208	3	60	271	TRANE	4TTA7060A3000A	ALL
CU 38E	F 38E	R-410A	12.5	12.2/16	95	58.7	22	35	208	3	60	271	TRANE	4TTA7060A3000A	ALL
CU 39	F 39	R-410A	11.9	12.6/16	95	58.7	22	35	208	3	60	271	TRANE	4TTA7060A3000A	ALL
CU 40A	F 40A	R-410A	6.1	13/16	95	37	12	20	208	3	60	156	TRANE	4TTA4036A3000A	ALL
CU 40B	F 40B	R-410A	6.1	13/16	95	37	12	20	208	3	60	156	TRANE	4TTA4036A3000A	ALL
CU 41	F 41	R-410A	12.6	12.2/16	95	58.7	22	35	208	3	60	271	TRANE	4TTA7060A3000A	ALL
CU C10	F C-10	R-410A	11.9	12.6/16	95	48.7	18	30	208	3	60	245	TRANE	4TTA7048A3000A	ALL

1. UNITS TO HAVE REFRIGERANT LINES, SUCTION LINES TO BE SIZES TO BE COORDINATED WITH MANUFACTURER AND TO BE CONNECTED PER MANUFACTURER'S STANDARDS. PROVIDE WITH 1/2" FOAM INSULATION. 2. INSTALL LABELS ON EACH CONDENSING UNIT SPECIFYING CORRESPONDING FURNACE.

INSTALL PRESSURE RELIEF VALVE ON HIGH PRESSURE SIDE OF SYSTEM, UPSTREAM OF ANY INTERVENING VALVES. ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH.

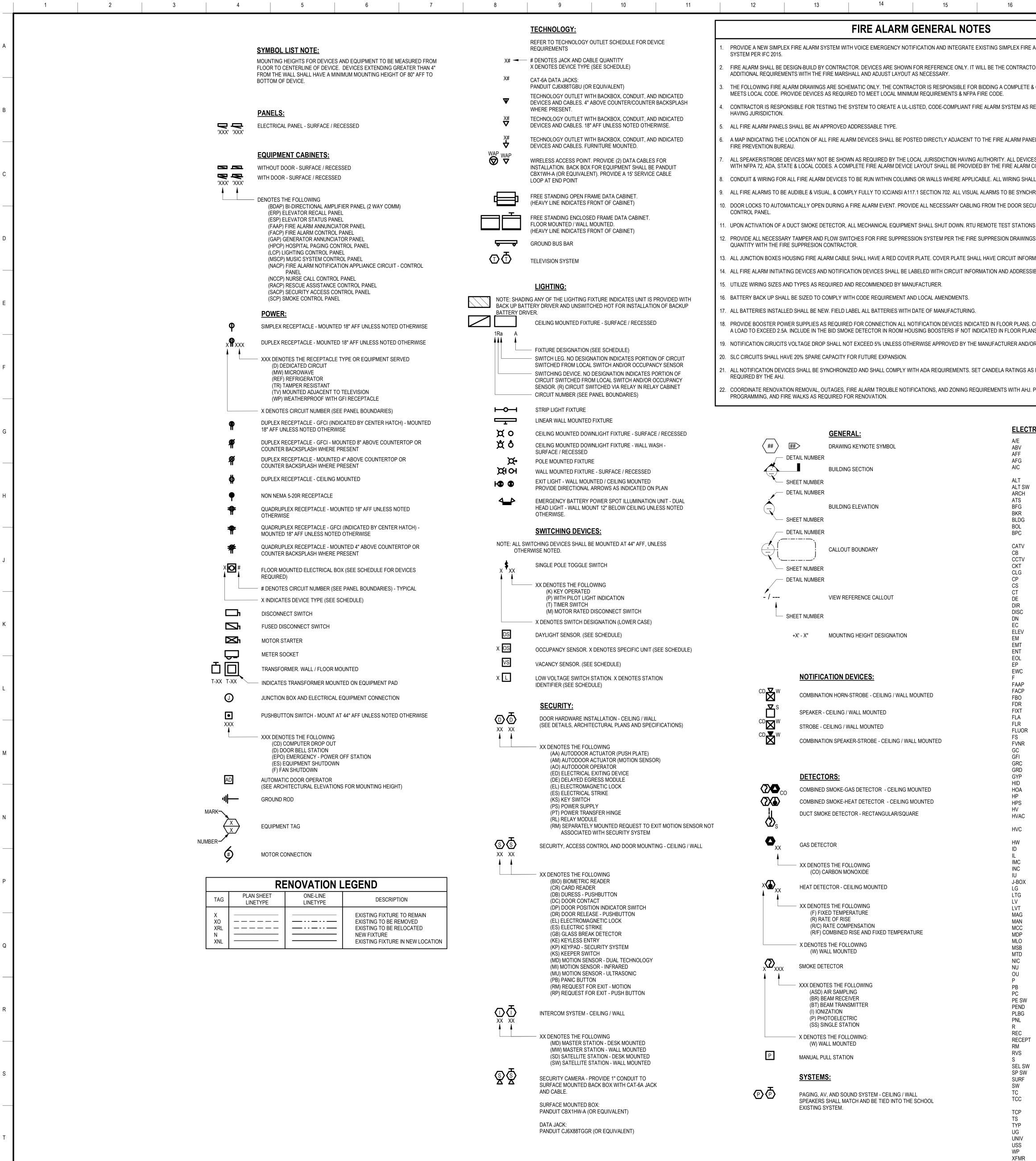
CONDENSING UNITS TO BE PROVIDED WITH 4" TALL HOUSE KEEPING PAD. 5.







	1	2 3 4 5 6 7
А		SYMBOL LIST NOTE:
		MOUNTING HEIGHTS FOR DEVICES AND EQUIPMENT TO BE MEASURED FROM
		FLOOR TO CENTERLINE OF DEVICES EXTENDING GREATER THAN 4" FROM THE WALL SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 80" AFF TO
		BOTTOM OF DEVICE.
В		
5		PANELS:
		I ELECTRICAL PANEL - SURFACE / RECESSED
		EQUIPMENT CABINETS:
		WITHOUT DOOR - SURFACE / RECESSED
С		WITH DOOR - SURFACE / RECESSED
		▲ ▲
		DENOTES THE FOLLOWING (BDAP) BI-DIRECTIONAL AMPLIFIER PANEL (2 WAY COMM)
		(ERP) ELEVATOR RECALL PANEL (ESP) ELEVATOR STATUS PANEL
		(FAAP) FIRE ALARM ANNUNCIATOR PANEL (FACP) FIRE ALARM CONTROL PANEL
D		(GAP) GENERATOR ANNUNCIATOR PANEL (HPCP) HOSPITAL PAGING CONTROL PANEL
		(LCP) LIGHTING CONTROL PANEL (MSCP) MUSIC SYSTEM CONTROL PANEL
		NACP) FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT - CONTROL PANEL
		(NCCP) NURSE CALL CONTROL PANEL (RACP) RESCUE ASSISTANCE CONTROL PANEL
		(SACP) SECURITY ACCESS CONTROL PANEL (SCP) SMOKE CONTROL PANEL
E		
		POWER:
		SIMPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS NOTED OTHERWISE
		DUPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS NOTED OTHERWISE
		XXX DENOTES THE RECEPTACLE TYPE OR EQUIPMENT SERVED
F		(D) DEDICATED CIRCUIT (MW) MICROWAVE
		(REF) REFRIGERATOR (TR) TAMPER RESISTANT
		(TR) TAMPER RESISTANT (TV) MOUNTED ADJACENT TO TELEVISION (WP) WEATHERPROOF WITH GFI RECEPTACLE
		(WP) WEATHERPROOF WITH GFI RECEPTACLE X DENOTES CIRCUIT NUMBER (SEE PANEL BOUNDARIES)
G		18" AFF UNLESS NOTED OTHERWISE
		DUPLEX RECEPTACLE - GFCI - MOUNTED 8" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT
		DUPLEX RECEPTACLE - MOUNTED 4" ABOVE COUNTERTOP OR
		COUNTER DACKSFLASH WHERE FRESENT
		DUPLEX RECEPTACLE - CEILING MOUNTED
Н		NON NEMA 5-20R RECEPTACLE
		QUADRUPLEX RECEPTACLE - MOUNTED 18" AFF UNLESS NOTED OTHERWISE
		QUADRUPLEX RECEPTACLE - GFCI (INDICATED BY CENTER HATCH) -
		MOUNTED 18" AFF UNLESS NOTED OTHERWISE
		QUADRUPLEX RECEPTACLE - MOUNTED 4" ABOVE COUNTERTOP OR COUNTER BACKSPLASH WHERE PRESENT
J		
		FLOOR MOUNTED ELECTRICAL BOX (SEE SCHEDULE FOR DEVICES REQUIRED)
		# DENOTES CIRCUIT NUMBER (SEE PANEL BOUNDARIES) - TYPICAL
		X INDICATES DEVICE TYPE (SEE SCHEDULE)
		DISCONNECT SWITCH
K		FUSED DISCONNECT SWITCH
		MOTOR STARTER
		METER SOCKET
		TRANSFORMER. WALL / FLOOR MOUNTED
		T-XX T-XX T-XX INDICATES TRANSFORMER MOUNTED ON EQUIPMENT PAD
L		JUNCTION BOX AND ELECTRICAL EQUIPMENT CONNECTION
		PUSHBUTTON SWITCH - MOUNT AT 44" AFF UNLESS NOTED OTHERWISE XXX
		XXX DENOTES THE FOLLOWING
		(CD) COMPUTER DROP OUT (D) DOOR BELL STATION
М		(EPO) EMERGENCY - POWER OFF STATION (ES) EQUIPMENT SHUTDOWN
		(F) FAN SHUTDOWN
		AD AUTOMATIC DOOR OPERATOR (SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT)
		GROUND ROD
N		MARK
I N		\overbrace{X} EQUIPMENT TAG
		NUMBER
		# MOTOR CONNECTION
		7
Р		
		RENOVATION LEGEND
		TAG PLAN SHEET ONE-LINE LINETYPE LINETYPE DESCRIPTION
		XO — — — — — — — — — — — — — — — — — — EXISTING TO BE REMOVED XRL — — — — — — — — — — — — — — — EXISTING TO BE RELOCATED NI — — — — — — — — — — — — — — — — — — —
Q		N NEW FIXTURE XNL EXISTING FIXTURE IN NEW LOCATION
-		
R		
S		
Т		



		GENERAL NOTES
E ALARM SYSTEM INTO NEW FIRE ALARM	1.	THE CONTRACTOR PROPOSING TO PERFORM THE ELECTRICAL WORK SHALL VISIT THE JOB SITE AND FULLY INFORM THEMSELVES OF ALL CONDITIONS THAT AFF
TOR'S RESPONSIBILITY TO VERIFY ANY	2.	THE WORK, OR COST THEREOF, AND EXAMINE THE DRAWINGS AND SPECIFICATIONS PRIOR TO SUBMITTING HIS BID. ALL ELECTRICAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND ALL OTHER DRAWINGS RELATED TO THE PERFORMANC
& OPERATIONAL FIRE ALARM SYSTEM THAT	3.	THE WORK. THE CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THIS WORK SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT SPECIFICATIONS BEFORE
REQUIRED BY THE LOCAL AUTHORITY	5.	COMMENCING ANY WORK. THE PROJECT SPECIFICATIONS AND DRAWINGS FORM THE BASIS OF THIS CONTRACT REQUIREMENTS AND INCLUDE THE TYPE AND G OF MATERIALS TO BE INSTALLED, EQUIPMENT TO BE FURNISHED, THE MANNER BY WHICH TO BE INSTALLED AND WHERE TO BE LOCATED. IN THE EVENT OF A CONFLICT BETWEEN THE PROJECT SPECIFICATIONS AND DRAWINGS, SPECIFICATIONS GOVERN UNLESS THE ARCHITECT/ENGINEER DIRECTS OTHERWISE.
NEL OR IN A LOCATION ACCEPTABLE TO THE	4.	THE ELECTRICAL CONTRACTOR SHALL CHECK CAREFULLY ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS THAT ARE PART OF THIS PROJECT TO ENSURE NO FIXTURE, OUTLET, ALARM STATION OR CONTROL AND POWER WIRING IS OMITTED. HE SHALL CONSULT ALL TRADES FURNISHING EQUIPMENT AND OBTAIN FR THEM ALL DATA. IN SOME CASES EQUIPMENT, FIXTURES AND DEVICES ARE SHOWN ONLY. ASCERTAIN AND PROVIDE THE WIRING AND CONTROL STATIONS REQU FOR THE PROPER FUNCTION OF BUILDING EQUIPMENT. NO EXTRA CHARGES SHALL BE ACCEPTED BY OWNER AFTER BIDDING FOR SUCH EQUIPMENT AND LABOR
CES SHALL BE PROVIDED IN ACCORDANCE CONTRACTOR.	5.	EQUIPMENT LABELS AND INSTRUCTIONS REGARDING THE APPLICATION AND INSTALLATION OF THE LISTED EQUIPMENT SHALL BE FOLLOWED TO ENSURE THAT T EQUIPMENT IS BEING INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S LISTING INSTRUCTIONS. THE TEMPERATURE RATING OF THE EQUIPMENT TERMINATIONS MUST BE CAREFULLY CORRELATED WITH THE CONDUCTOR AMPACITY TO PREVENT OVERHEATING AND PREMATURE FAILURE.
ALL BE CONCEALED. HRONIZED THROUGHOUT.	6. 7.	COORDINATE WORK WITH OTHER TRADES AND INSTALL CONDUIT AND BOXES TO CLEAR EMBEDDED DUCTS, OPENINGS AND OTHER STRUCTURAL FEATURES. ALL LIGHTING FIXTURES ARE TO BE LOCATED AS REQUIRED ON THE JOB TO CLEAR DUCTS, PIPING, EQUIPMENT, AND/OR MECHANICAL UNITS.
CURITY SYSTEM TO THE FIRE ALARM	8.	CONDUIT RUNS SHOWN ON DRAWINGS ARE DIAGRAMMATIC. ALL CONDUITS SHALL RUN CONCEALED, EXCEPT IN EQUIPMENT ROOMS AND WHERE APPROVED BY
NS SHALL HAVE LED INDICATOR.	9.	ARCHITECT. FURNISH AND INSTALL EQUIPMENT DISCONNECT SWITCHES IN STRICT COMPLIANCE WITH CODE REQUIREMENTS.
GS. COORDINATE EXACT LOCATION AND	10.	POWER AND DATA DEVICES SHALL BE SPACED NO MORE THAN 4" APART. PROVIDE JUNCTION BOX MOUNTING BRACKET BETWEEN STUDS AS NEEDED.
RMATION.	11.	ALL RECEPTACLES, TELEPHONE, AND DATA OUTLETS SHALL BE MOUNTED AT 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. ALL DEVICES SHALL BE N UNLESS OTHERWISE NOTED.
SIBLE SERIAL CODE AS APPLICABLE.	12. 13.	ALL FIRE ALARM SIGNAL DEVICES SHALL BE MOUNTED AT 80" AFF IN ACCORDANCE WITH ADA, UNLESS OTHERWISE NOTED. DETERMINE, IN ADVANCE OF PURCHASE, THAT ALL ELECTRICAL MATERIALS AND EQUIPMENT TO BE INSTALLED SHALL FIT INTO THE ROOM OR SPACE ALLOCATED INDICATED ON THE DRAWINGS, ALLOWING SUFFICIENT CLEARANCE FOR THE SAFE SERVICE AND/OR MAINTENANCE OF RELATED EQUIPMENT, INCLUDING THAT O
	14.	OTHER TRADES. TELEPHONE AND DATA BOXES, CONDUITS, AND WIRING/CABLE SHALL BE PROVIDED BY EC. SECURITY CAMERAS SHALL BE PROVIDED BY NORTH SCHOOL DISTRIC
. CIRCUITS RATED AT 3A SHALL NOT SERVE ANS. OR AHJ.	15.	INSTALLLED BY EC. COORDINATE ALL CAMERA LOCATIONS WITH SCHOOL DISTRICT. ALL DATA, SECURITY, ADN ACCESS POINT CABLING SHALL BE PLENUM RATED CAT-6A. CABLE TERMINATION JACKS AND CABLING TO BE COLOR-CODED PER NORT SCOTT SCHOOL DISTRICT'S STANDARDS. (DATA - BLUE, CAMERAS - GREEN) PROVIDE 10' SERVICE LOOPS AT END OF CABLE. DATA AND SECURITY CABLING IN BUI ADDITION SHALL BE PULLED TO DATA RACK IN IDF ROOM.
OK ANJ.	16.	CONDUCTORS SUPPLYING CIRCUITS SHALL NOT BE LESS THAN #12 AWG COPPER FOR ANY CIRCUIT.
AS REQUIRED BY CODE AND/OR AS	17.	AT THE COMPLETION OF THE JOB, IT WILL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO TURN OVER TO THE BUILDING MANAGER AN AS-BUILT-DRAWI REPRODUCIBLE FORM. THESE DRAWINGS DO NOT HAVE TO BE MADE FROM SCRATCH. THE ENGINEER'S REFLECTED CEILING AND ELECTRICAL/TELEPHONE PLAN BE USED AS BACKGROUND WITH THE ACTUAL CIRCUITING CHANGES ADDED.
	18.	ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL J-BOX AND 3/4"C FOR MECHANICAL THERMOSTAT + CONTROLS. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
	19.	ALL WORK IS TO BE DONE IN ACCORDANCE WITH THE 2020 NEC AND THE LATEST REQUIREMENTS OF ALL CODES AND REGULATIONS.
ARCHITECT/ENGINEER	20. 21.	ALL EXTERIOR RECEPTACLES SHALL HAVE METAL COVERS. EC SHALL UPSIZE WIRE AND CONDUIT AS REQUIRED FOR VOLTAGE DROP, BRANCH CIRCUITS SHALL BE INSTALLED WITH A MAXIMUM OF A 3% VOLTAGE DROP, AN
ABOVE ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AVAILABLE INTERRUPTING CURRENT	22.	FEEDERS SHALL BE INSTALLED WITH A MAXIMUM OF 2% VOLTAGE DROP. NO ELECTRICAL CIRCUITS SHALL EXCEED A VOLTAGE DROP OF MORE THAN 5%. DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS A CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE A UNLESS CLARIFICATION FROM RFI.
ALTERNATE ALTERNATOR SWITCH ARCHITECT AUTOMATIC TRANSFER SWITCH	23.	ALL EXPOSED ELECTRICAL CONDUIT, CABLE, AND JUNCTION BOXES INSTALLED OPEN CEILING CEILINGS SHALL BE PAINTED. MC CABLE AND FLEXIBLE CONDUIT S BE LIMITED IN EXPOSED OPEN CEILING LOCATIONS TO A '6-0" MAXIMUM LENGTH FOR INDIVIDUAL WHIPS FOR EQUIPMENT CONNECTIONS. INSTALL ALL CONDUIT, CABLE, AND JUNCTION BOXES IN A NEAT AND CONSISTENT MANNER. COLOR SELECTIONS BY ARCHITECT.
BELOW FINAL GRADE BREAKER BUILDING	24.	TYPE MC CABLE SHALL BE INSTALLED FOR BRANCH CIRCUITS IN ONLY CONCEALED LOCATIONS WITHIN THE SPACE THAT THE LIGHTING, EQUIPMENT, AND/OR RECEPTACLE DEVICES IT SERVES ARE LOCATED, UNLESS NOTED OTHERWISE.
BUILT IN OVERLOAD BOLTED PRESSURE CONTACT SWITCH		
CABLE TELEVISION CIRCUIT BREAKER CLOSED CIRCUIT TELEVISION		DEMOLITON GENERAL NOTES
CIRCUIT CEILING CONTROL PANEL	1.	EACH CONTRACTOR SHALL REVIEW THE EXISTING SYSTEMS IN THE FIELD ALONG WITH BID DOCUMENTS & DETERMINE SELECTIVE DEMO & ADDITION OF TEMPOR SYSTEMS (IF REQUIRED) TO MAKE PHASED DEMO & PROPOSED REMODELING. IT SHALL ASSURE UNINTERRUPTED SAFE OPERATION OF AREAS THAT ARE AFFEC
COMBINATION STARTER CURRENT TRANSFORMER DUAL ELEMENT FUSES	2.	DEMO & ADDITION OF PROPOSED SYSTEMS AT ALL TIMES. INCLUDE THE NECESSARY WORK TO ACCOMPLISH THIS & COORDINATE PHASING ACCORDINGLY.
DIRECT DISCONNECT DOWN	3.	WHERE EXISTING ELECTRICAL WORK PREVENTS PROPER CONSTRUCTION OF NEW WORK AS INDICATED, REMOVE, REROUTE, RELOCATE, OR IN OTHER WAYS AL
ELECTRICAL CONTRACTOR ELEVATION REFERENCE EMERGENCY	4.	EXISTING WORK IN ORDER TO ACCOMMODATE. WHERE EXISTING CONDUIT, WIRE, SUPPORTS, HANGERS & OTHER ELECTRICAL WORK MUST BE REMOVED AS A RESULT OF THE ALTERATIONS, THEY SHALL BE COMPLETELY REMOVED, BACK TO THE FIRST OUTLET WHICH IS LEFT UNAFFECTED BY THE DEMOLITION. CONDUIT WHICH IS BURIED IN CONCRETE OR OTHERWIS
ELECTRIC METALLIC TUBING ELECTRICAL NON-METALLIC TUBING END OF LINE RESISTOR EXPLOSION PROOF	5.	INACCESSIBLY POSITIONED MAY BE ABANDONED. IN SUCH CASES, WIRE SHALL BE PULLED OUT & THE CONDUIT SHALL BE PLUGGED AT EACH END. EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, INCLUDING WAP, CLOCKS, FIRE ALARM NOTIFICATION AND DETECTION DEVICES, SECURITY CAMERAS, AND SECURITY EQUIPMENT. LIGHT FIXTURES, SWITCHES, SPEAKERS, INTERCOM EQUIPMENT, CONTROLS, CONDUIT OUTLETS, FITTINGS, AND OTHER DEVICES REMOV
ELECTRIC WATER COOLER FLUSH FIRE ALARM ANNUNCIATOR PANEL	6.	A RESULT OF THE ALTERATIONS SHALL REMAIN THE PROPERTY OF THE OWNER (UNLESS OTHERWISE INDICATED) AND SHALL BE REUSED WHERE INDICATED.
FIRE ALARM CONTROL PANEL FURNISHED BY OTHERS FEEDER FIXTURE	7.	THE ENGINEER WHO WILL IN TURN MAKE THE FINAL DECISION REGARDING REUSABILITY. ALL WIRE AND CABLE FOR REUSED AND RELOCATED EQUIPMENT SHALL NEW.
FULL LOAD AMPS FLOOR FLUORESCENT		(AS REQUIRED). AFTER WHICH, INSTALL NEW WORK AND REINSTALL EXISTING WORK TO REMAIN, AS SHOWN ON THE DRAWINGS. EXISTING MATERIALS AND EQUI SHALL BE REUSED ONLY WHERE INDICATED.
FLOW SWITCH FULL VOLTAGE NON-REVERSING GENERAL CONTRACTOR GROUND FAULT INTERRUPTER GALVANIZED RIGID CONDUIT	8.	SOME EXCEPTIONS MAY ARISE WHEREIN EQUIPMENT, EITHER IN ALTERED AREAS OR OTHER AREAS, MUST BE KEPT IN SERVICE, REQUIRING THAT FEEDERS, SIG CONDUCTORS, CONDUITS, BOXES, ETC. SERVING SAME ALSO BE KEPT IN SERVICE. IN SUCH CASES, THOSE ELECTRICAL FEEDERS, SIGNAL CONDUCTORS, CONDI BOXES, ETC. SHALL BE REROUTED & RECONNECTED BEFORE PRESENT WORK IS REMOVED. IF THIS IS NOT POSSIBLE, TEMPORARY WIRING SHALL BE PROVIDED, WHICH NEW WORK SHALL BE INSTALLED & TEMPORARY WIRING REMOVED.
GROUND GYPSUM BOARD HIGH INTENSITY DISCHARGE	9.	ANY ELECTRICAL EQUIPMENT THAT IS TAGGED TO BE DISPOSED OF SHALL BE DONE PER APPROVED METHOD IN ACCORDANCE WITH THE CONSTRUCTION PLAN & LOCAL AUTHORITIES.
HIGH INTENSITY DISCHARGE HAND-OFF-AUTO SWITCH HORSEPOWER HIGH PRESSURE SODIUM HIGH VOLTAGE	10.	THIS DRAWING SHOWS A REPRESENTATIVE SAMPLE OF DEMOLITION WORK THAT IS TO TAKE PLACE. NOTE THAT NOT EVERY DEVICE AND CONDUIT ETC. REQUIR BE DEMOLISHED IS NECESSARILY INDICATED ON THIS PLAN. THE CONTRACTOR SHALL VISIT THE JOB SITE TO FAMILIARIZE HIMSELF WITH THE EXTENT OF EXISTII WORK TO BE DEMOLISHED.
HEATING & VENTILATING - AIR CONDITIONING	11.	ALL PROPOSED DEMOLITION WORK SHALL BE THOROUGHLY COORDINATED WITH ALL OTHER TRADES.
HEATING VENTILATING CONTRACTOR HEAVYWALL	12. 13.	DISCONNECT & REMOVE ALL ELECTRICAL EQUIPMENT, DEVICES AND CONDUITS IN WALLS, FLOORS & CEILING SCHEDULED FOR DEMOLITION. MAINTAIN AND RESTORE, IF INTERRUPTED, ALL CONDUITS, FEEDERS AND BRANCH CIRCUITS PASSING THROUGH RENOVATED AREA AND SERVING UNDISTURBED
INDIRECT INTERLOCK INTERMEDIATE METAL CONDUIT INCANDESCENT	14.	AREAS. ANY PORTION OF THE EXISTING CONDUIT SYSTEM THAT IS TO BE REUSED OF THE NEW INSTALLATION SHALL BE CHECKED TO ENSURE THAT IT IS CLEAN, FREE O DAMAGE, FREE OF CORROSION AND ADEQUATELY SUPPORTED.
IN UNIT JUNCTION BOX LAY-IN GRID	15.	EXISTING ELECTRICAL SYSTEM IS DESCRIBED BASED ON SURVEYS OF EXISTING CONDITIONS THAT ARE VISIBLE DURING THE DESIGN PHASE. CONTRACTOR SHALL CONFIRM ALL SERVICES PRIOR TO PROCEEDING WITH DEMOLITION.
LIGHTING LOW VOLTAGE	16.	PATCH ALL HOLES IN SLABS, WALLS & CEILINGS WHERE ELECTRICAL DEVICES AND/OR CONDUIT ARE REMOVED. IF THE REMOVAL OF CONDUIT, BOXES, EQUIPME
LINE VOLTAGE THERMOSTAT MAGNETIC STARTER MANUAL STARTER	17.	ETC. COMPROMISES THE FIRE RATING OF THESE ITEMS, THE CONTRACTOR SHALL SEAL OPENINGS WITH CODE APPROVED FIRE STOPPING MATERIAL. CONTRACTOR IS TO PERFORM DEMOLITION WORK IN A NEAT, SKILLFUL & CAREFUL MANNER SO AS NOT TO DAMAGE OR DEFACE EXISTING CONSTRUCTION THAT
MOTOR CONTROL CENTER MAIN DISTRIBUTION PANEL MAIN LUGS ONLY	18.	REMAIN. WHERE FEEDERS OR BRANCH CIRCUITS ARE DISCONNECTED AND REMOVED FROM EXISTING PANEL BOARDS, CONTRACTOR SHALL MARK THE AFFECTED BREAK
MAIN SWITCHBOARD MOUNTED NOT IN CONTRACT	19.	THOSE PANEL BOARDS AS "SPARE." INSTALL NEW KNOCK-OUT BLANK INSERT IN PANEL BOX. VERIFY THAT REMOVAL OF DEVICES IN RENOVATED AREA DOES NOT AFFECT DEVICES IN OTHER AREAS THAT MAY BE FED FROM THE CIRCUIT BEING DISCONNED
NEAR UNIT ON UNIT POLE PUSH BUTTON	20.	PROVIDE ADDITIONAL CABLE AND/OR CONDUIT AND WIRE AS REQUIRED FOR EXISTING TO REMAIN DEVICES TO REMAIN FULLY OPERATIONAL AFFECTED BY DEVICES SCHEDULED TO BE REMOVED AND/OR RELOCATED. NEW CONDUIT AND WIRE CHARACTERISTICS SHALL MATCH EXISTING.
PHOTO CONTROL PNEUMATIC SWITCH PENDANT PLUMBING CONTRACTOR PANEL	L	

RELAY RECESS RECEPTACLE ROOM REDUCED VOLTAGE STARTING SPLINE SELECTOR SWITCH

SPEED SWITCH SURFACE SWITCH TIME CLOCK TEMPERATURE CONTROL

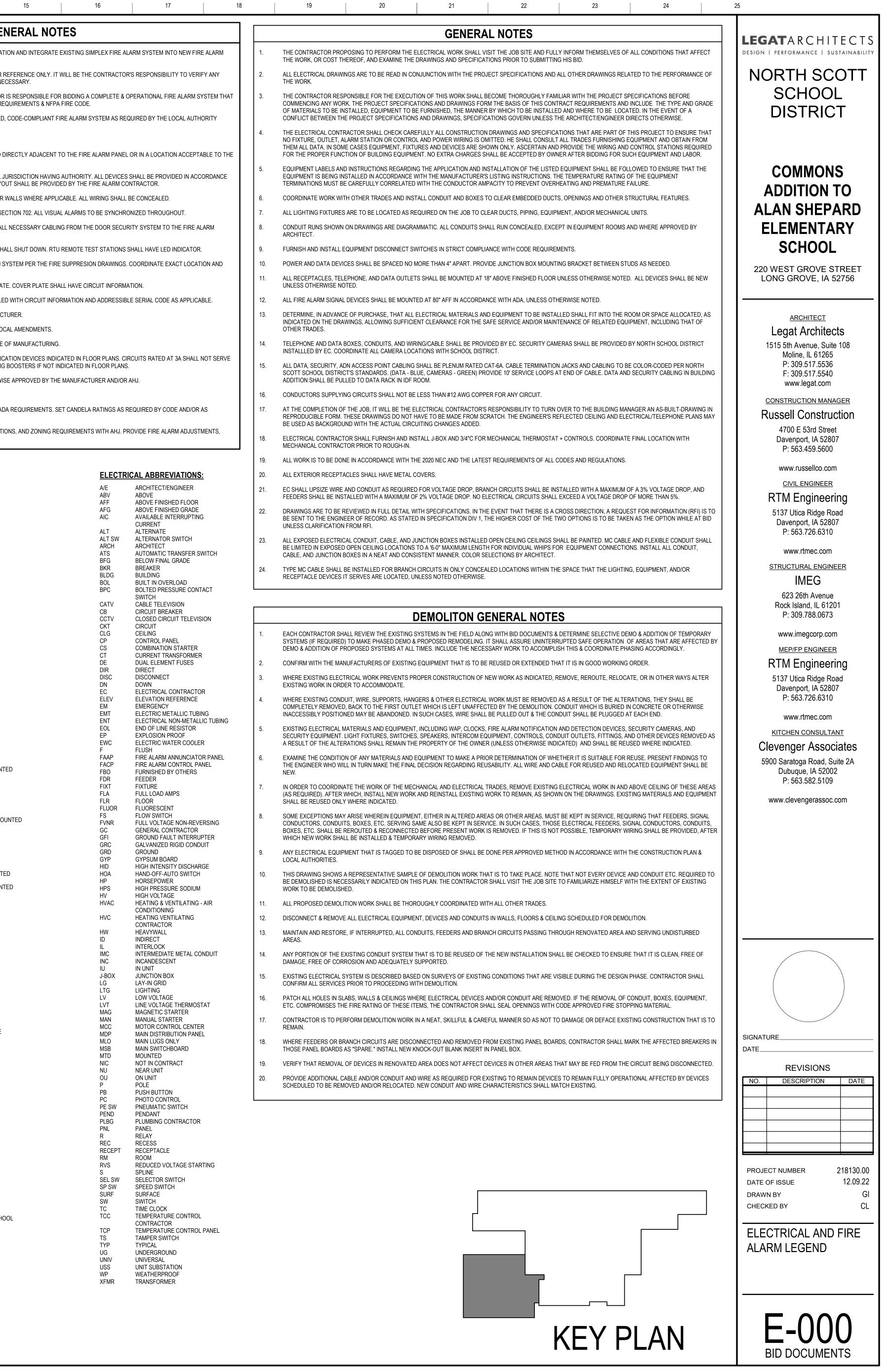
CONTRACTOR TEMPERATURE CONTROL PANEL TAMPER SWITCH TYPICAL UNDERGROUND

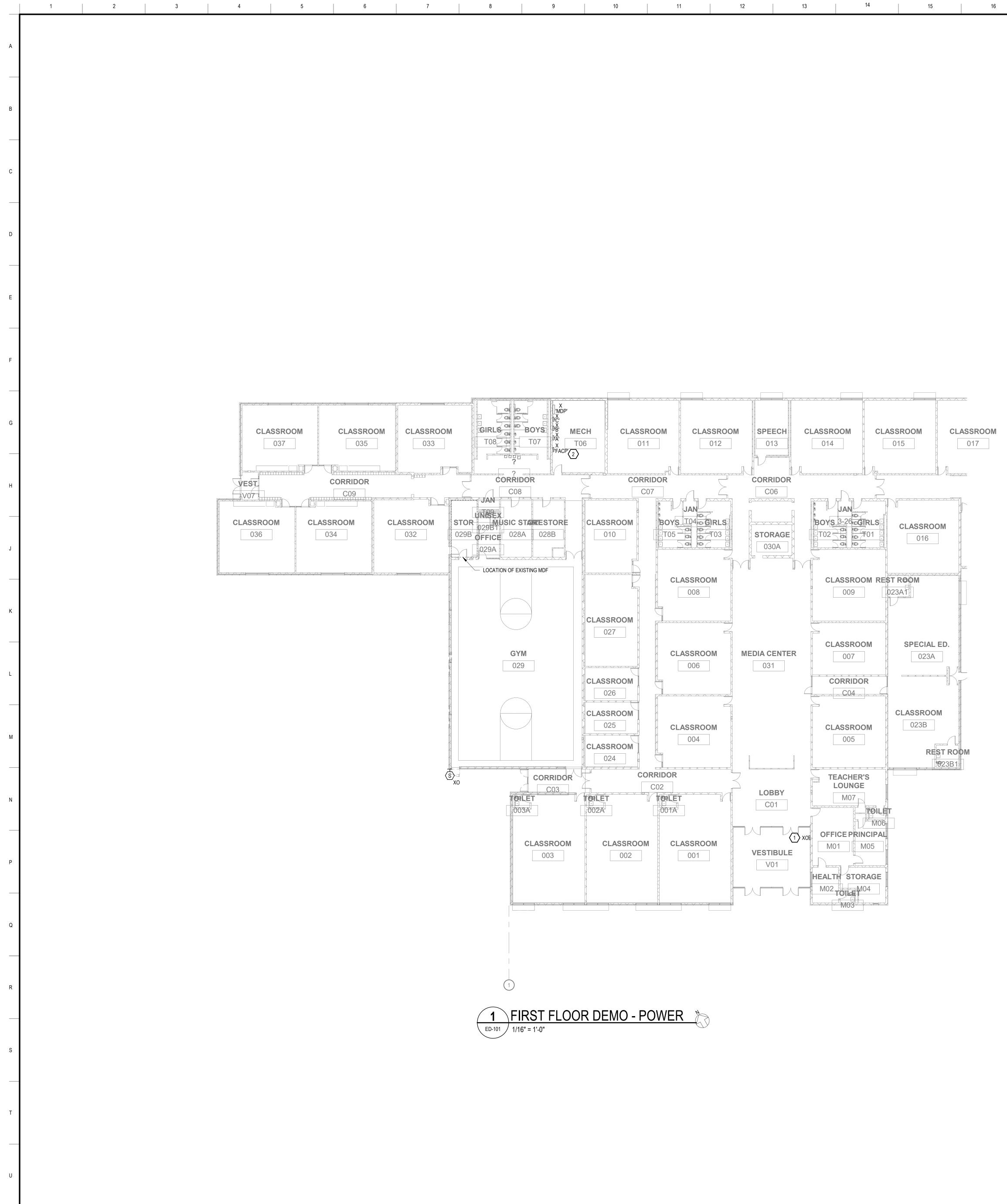
UNIVERSAL

UNIT SUBSTATION

WEATHERPROOF

TRANSFORMER



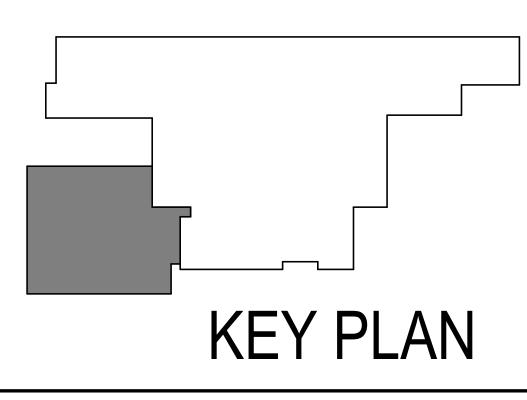


17	18	19	20	21		22	23	24
					<u>GE</u>	NERAL NOTES:		
					1.	REFER TO GENERAL NO	DTES AND SYMBOLS ON SH	IEET E-000.
					2.			IZED PER NEC 250.122 INSTALLE E-400 FOR FEEDER, GROUND &
					3.	EXACT REQUIREMENTS	WITH THE DOOR PROVIDE	ING FOR CARD READERS. VERIF ER. REFER TO ARCHITECTURAL DOOR ROUGH-IN DETAILS LOCA

4. ALL DEVICES ARE SHOWN NEW UNLESS NOTED OTHERWISE.

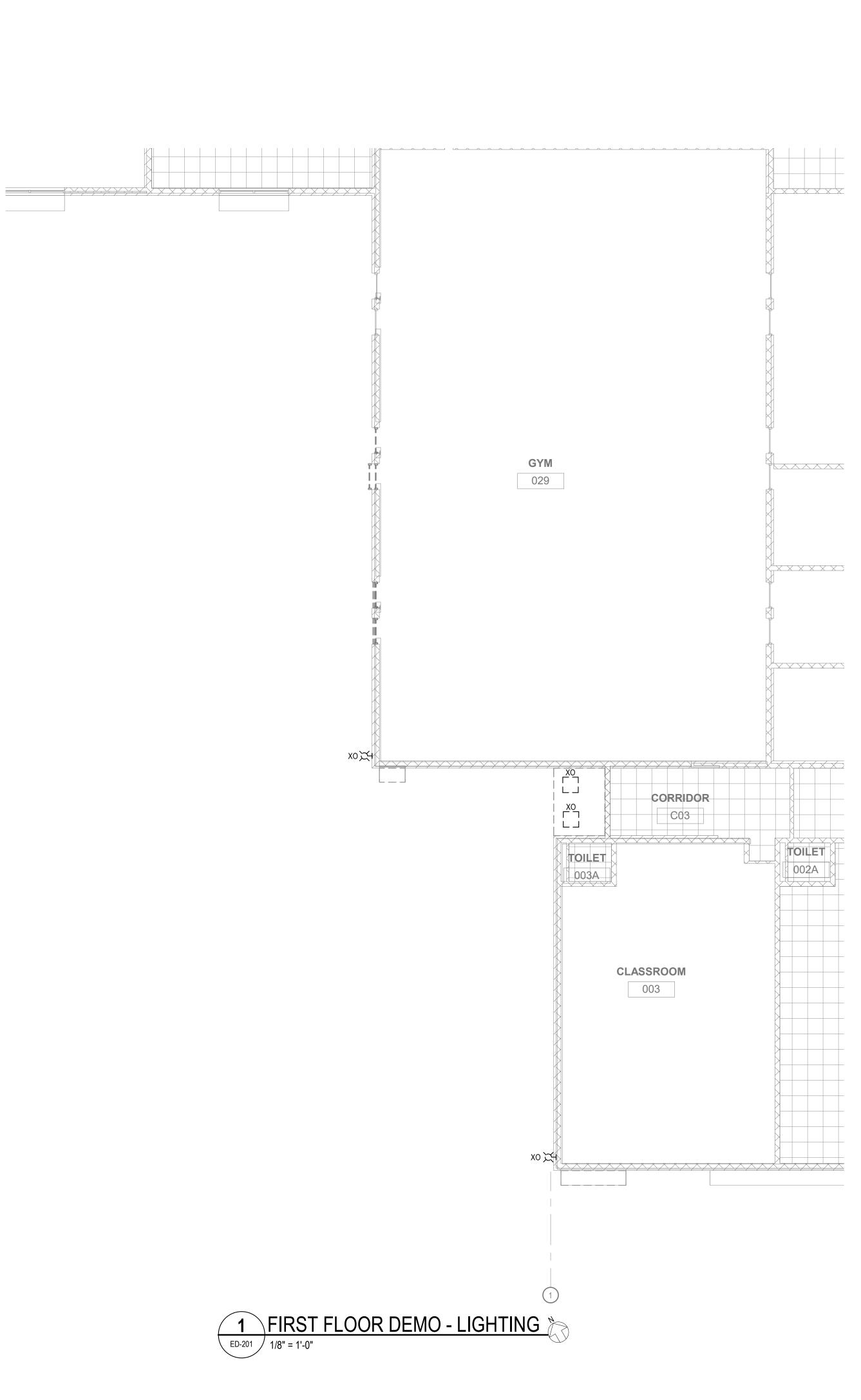
KEYNOTES

REMOVE AND REPLACE EXISTING FIRE ALARM PANEL WITH NEW. PROVIDE CABLING TO TIE INTO NEW AND EXISTING FIRE ALARM SYSTEM. 2 APPROXIMATE LOCATION OF EXISTING FIRE ALARM PANEL. PROVIDE CABLING TO EXTEND TO NEW FIRE ALARM PANEL IN THE NEW BUILDING ADDITION TO TIE INTO FIRE ALARM SYSTEM.





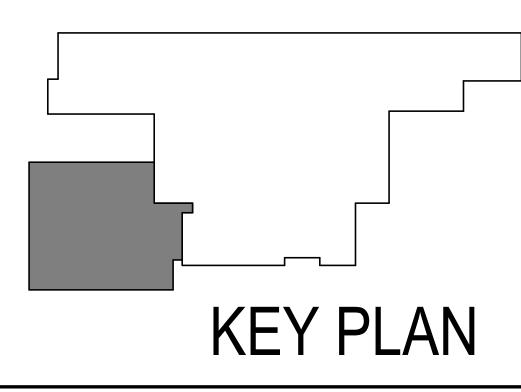
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17	18	19	20	21	22	23	24	
17	18	19	20		GENERAL NOTES: 1. REFER TO GENERAL NO 2. PROVIDE SPEARATE GFALL MECHANICAL EQUIL CONDUIT SIZES. SUBSTREAM 3. PROVIDE ALL NECESSAE EXACT REQUIREMENTS SUBSTREAM	OTES AND SYMBOLS ON SH ROUNDING CONDUCTOR SIZ PMENT. REFER TO SHEET E RY ROUGH-INS AND CABLIN S WITH THE DOOR PROVIDE		& RIFY AL DC
					4. ALL DEVICES ARE SHOW	WN NEW UNLESS NOTED OT	THERWISE.	

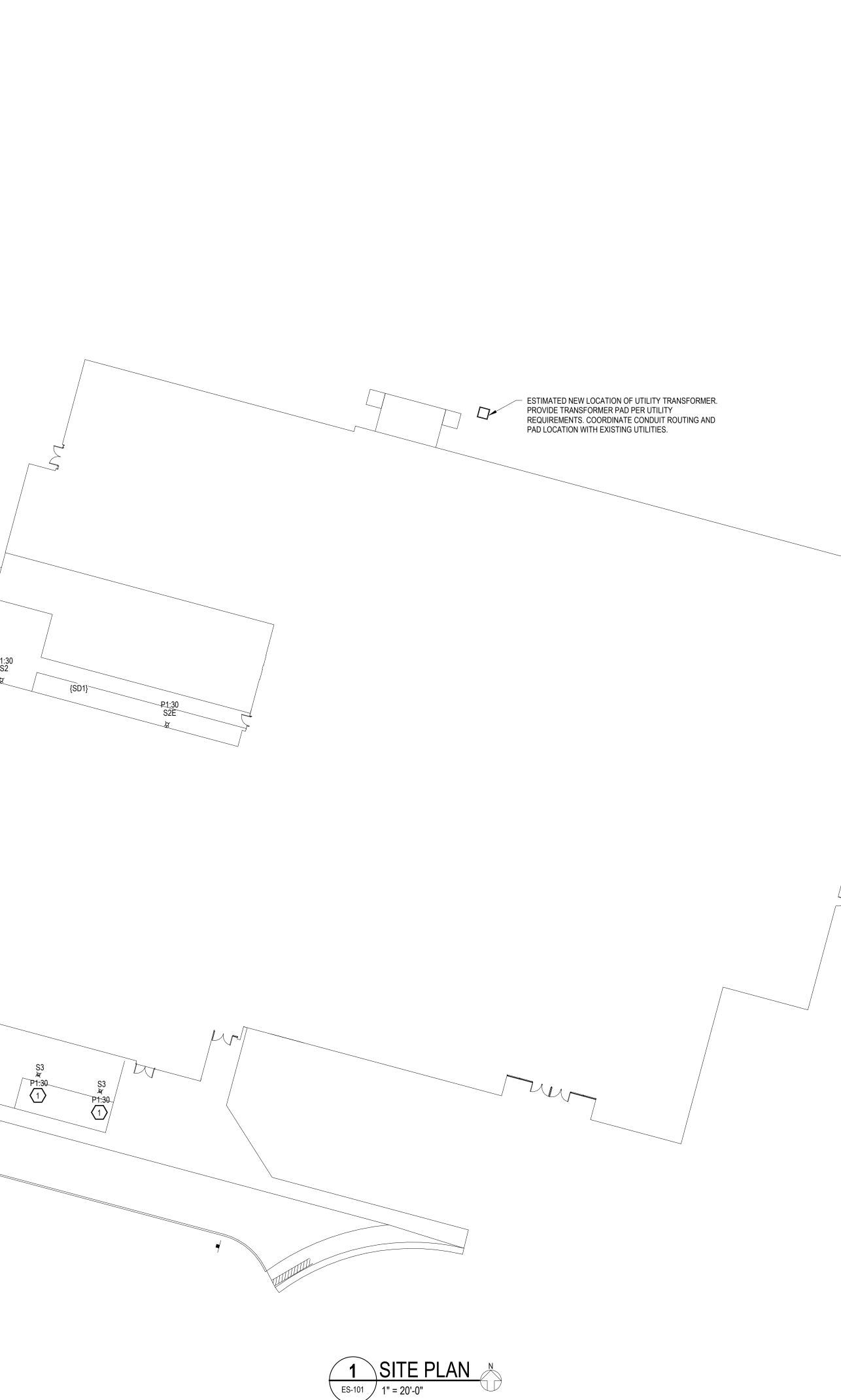
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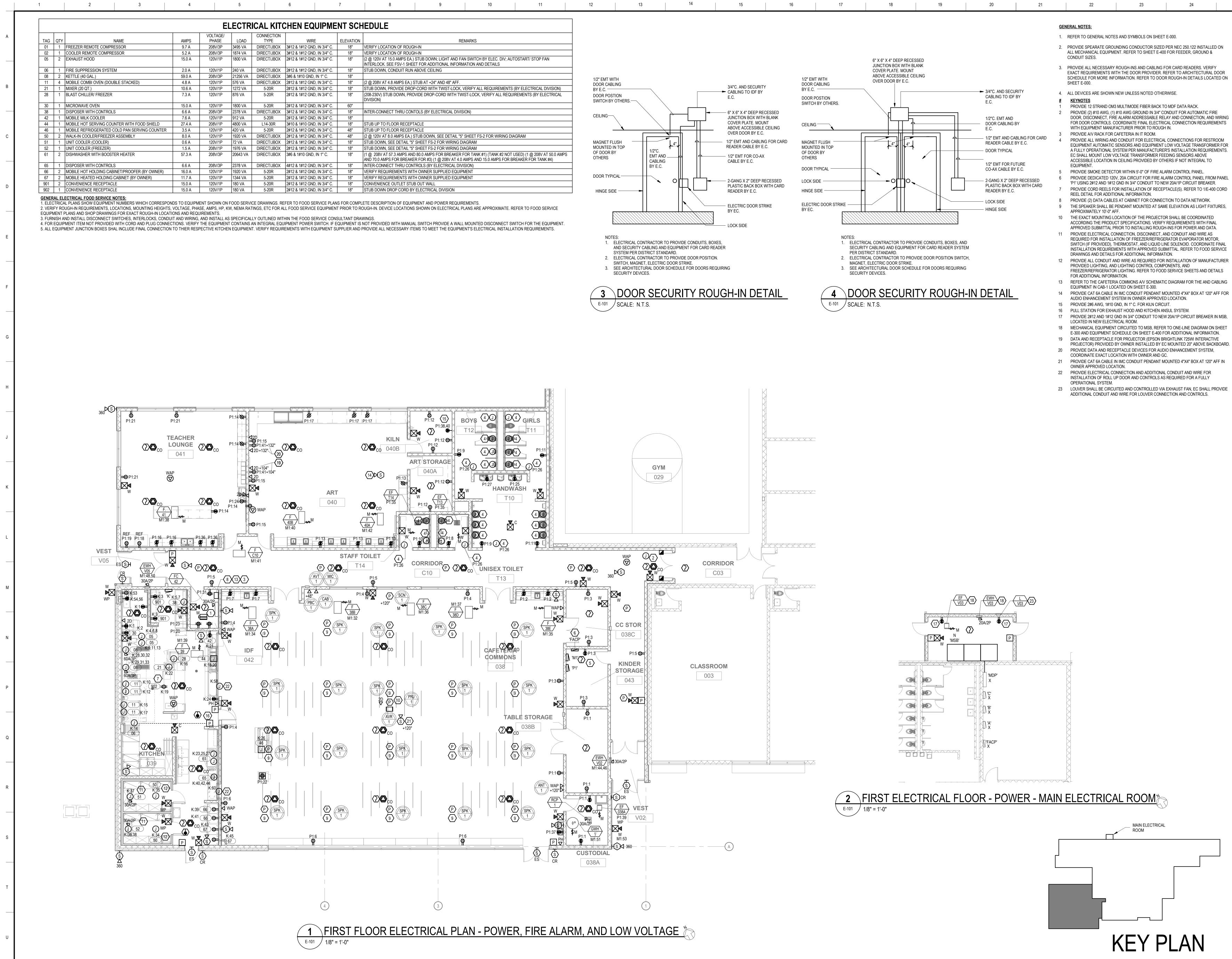
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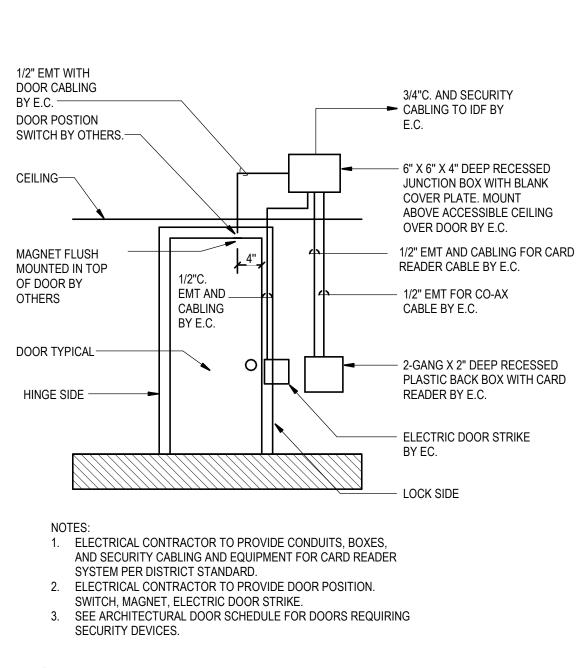


GENERAL NOTES: 1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000. <u>KEYNOTES</u>
 REFER TO DETAIL 2/ES-101 FOR FIXTURE TYPE 'S3' POLE BASE DETAIL. FIXTURES SHALL BE AIMED AT BUILDING FACADE.





LE
REMARKS
OCATION OF ROUGH-IN
OCATION OF ROUGH-IN
/ AT 15.0 AMPS EA.) STUB DOWN; LIGHT AND FAN SWITCH BY ELEC. DIV; AUTOSTART/ STOP FAN CK. SEE FSV-1 SHEET FOR ADDITIONAL INFORMATION AND DETAILS
WN, CONDUIT RUN ABOVE CEILING
/ AT 4.8 AMPS EA.) STUB AT +24" AND 48" AFF.
WN, PROVIDE DROP-CORD WITH TWIST-LOCK, VERIFY ALL REQUIREMENTS (BY ELECTRICAL DIVISION)
/) STUB DOWN, PROVIDE DROP-CORD WITH TWIST-LOCK, VERIFY ALL REQUIREMENTS (BY ELECTRICAL)
DNNECT THRU CONTOLS (BY ELECTRICAL DIVISION)
TO FLOOR RECEPTACLE
TO FLOOR RECEPTACLE
AT 8.0 AMPS EA.) STUB DOWN, SEE DETAIL "5" SHEET FS-2 FOR WIRING DIAGRAM
WN, SEE DETAIL "5" SHEET FS-2 FOR WIRING DIAGRAM
WN, SEE DETAIL "5" SHEET FS-2 FOR WIRING DIAGRAM
V AT 57.3 AMPS AND 80.0 AMPS FOR BREAKER FOR TANK #1) (TANK #2 NOT USED) (1 @ 208V AT 50.0 AMI AMPS FOR BREAKER FOR #3) (1 @ 208V AT 4.0 AMPS AND 15.0 AMPS FOR BREAKER FOR TANK #4)
DNNECT THRU CONTROLS (BY ELECTRICAL DIVISION)
EQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT
EQUIREMENTS WITH OWNER SUPPLIED EQUIPMENT
ENCE OUTLET STUB OUT WALL



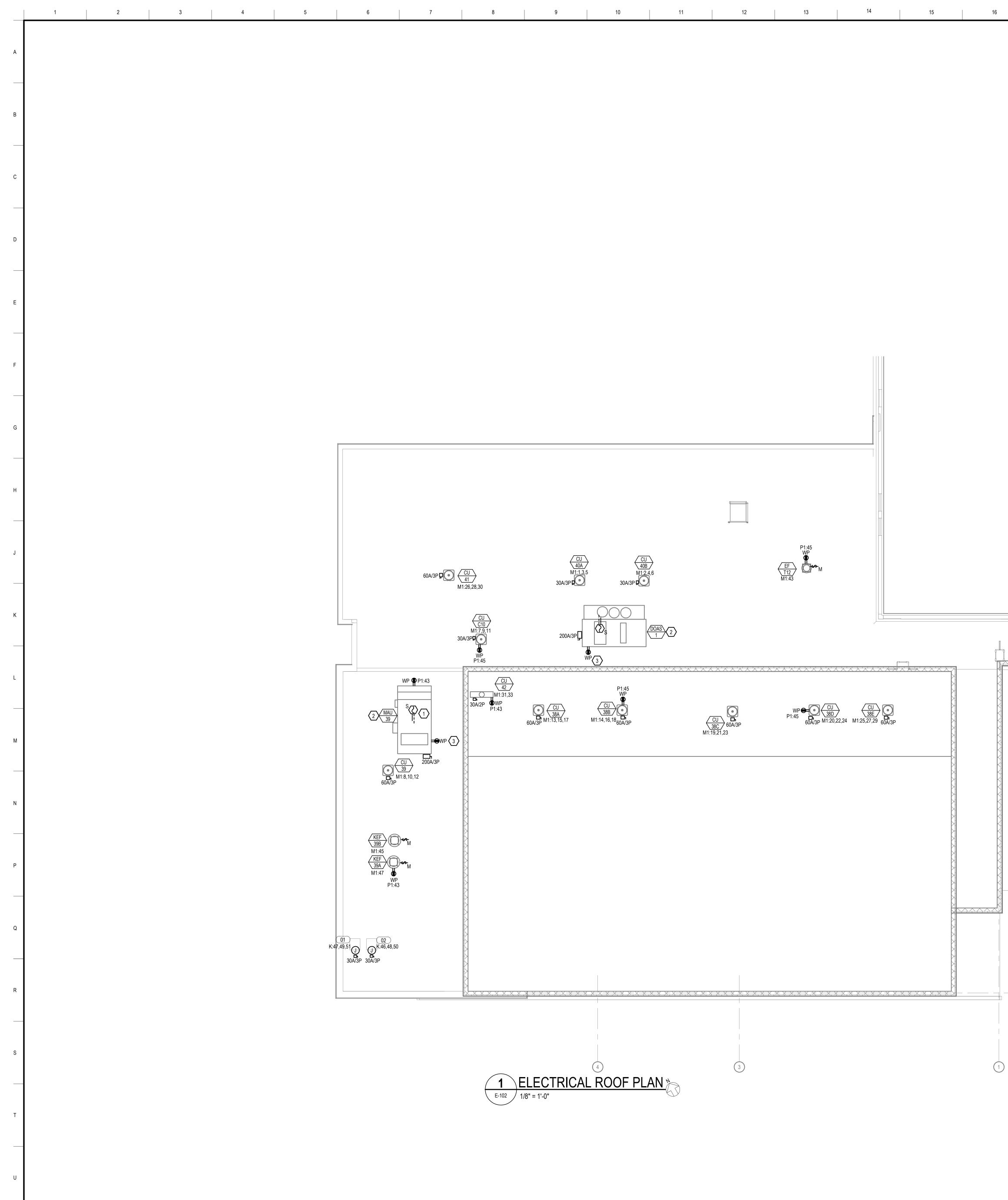
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LEGATARCHITECTS DESIGN | PERFORMANCE | SUSTAINABILIT NORTH SCOTI SCHOOL DISTRICT COMMONS **ADDITION TO ALAN SHEPARD ELEMENTARY** SCHOOL 220 WEST GROVE STREET LONG GROVE, IA 52756 ARCHITECT Legat Architects 1515 5th Avenue, Suite 108 Moline, IL 61265 P: 309.517.5536 F: 309.517.5540 www.legat.com CONSTRUCTION MANAGER **Russell Construction** 4700 E 53rd Street Davenport, IA 52807 P: 563.459.5600 www.russellco.com CIVIL ENGINEER **RTM Engineering** 5137 Utica Ridge Road Davenport, IA 52807 P: 563.726.6310 www.rtmec.com ST<u>RUCTURAL ENGINEER</u> IMEG 623 26th Avenue Rock Island, IL 61201 P: 309.788.0673 www.imegcorp.com MEP/FP ENGINEER **RTM Engineering** 5137 Utica Ridge Road Davenport, IA 52807 P: 563.726.6310 www.rtmec.com KITCHEN CONSULTANT **Clevenger Associates** 5900 Saratoga Road, Suite 2A Dubuque, IA 52002 P: 563.582.5109 www.clevengerassoc.com SIGNATURE_ DATE REVISIONS NO. DESCRIPTION DATE 218130.00 PROJECT NUMBER 12.09.22 DATE OF ISSUE GI DRAWN BY CL CHECKED BY

FIRST FLOOR ELECTRICAL PLAN -POWER AND LOW VOLTAGE





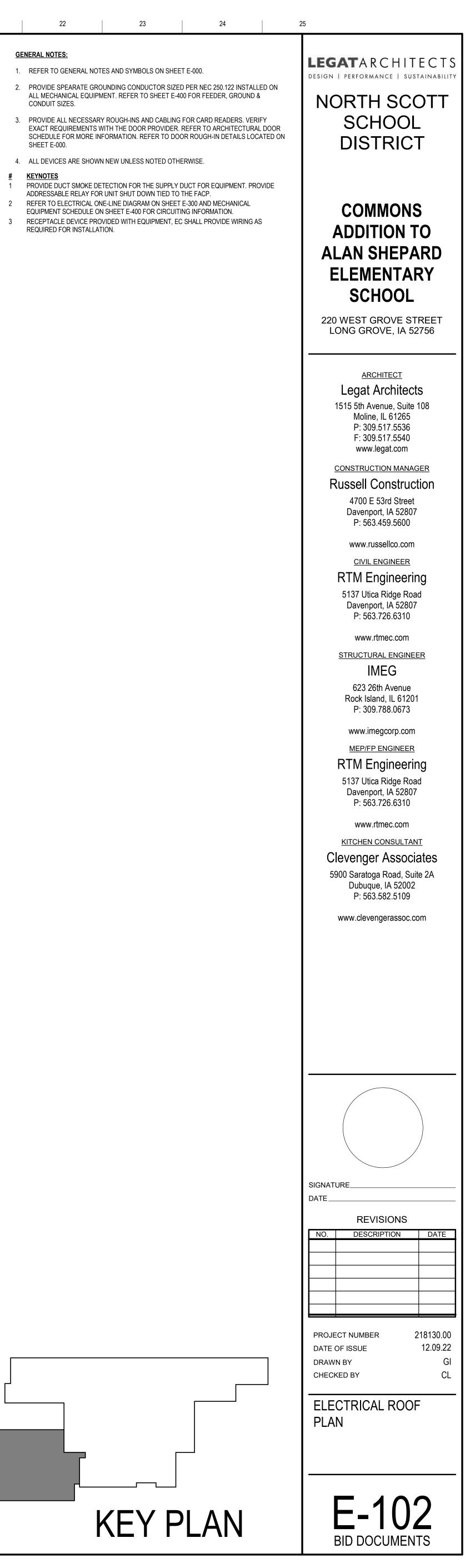
17	18	19	20	21	22	23	24								
					<u>ENERAL NOTES:</u> REFER TO GENERAL NOT	ES AND SYMBOLS ON SHEE	T E-000.								
					PROVIDE SPEARATE GRO		D PER NEC 250.122 INSTALLE								
			 PROVIDE ALL NECESSARY ROUGH-INS AND CABLING FOR CARD READERS. VERIFY EXACT REQUIREMENTS WITH THE DOOR PROVIDER. REFER TO ARCHITECTURAL D SCHEDULE FOR MORE INFORMATION. REFER TO DOOR ROUGH-IN DETAILS LOCAT SHEET E-000. 												
				4.	ALL DEVICES ARE SHOW	NEW UNLESS NOTED OTHE	ERWISE.								

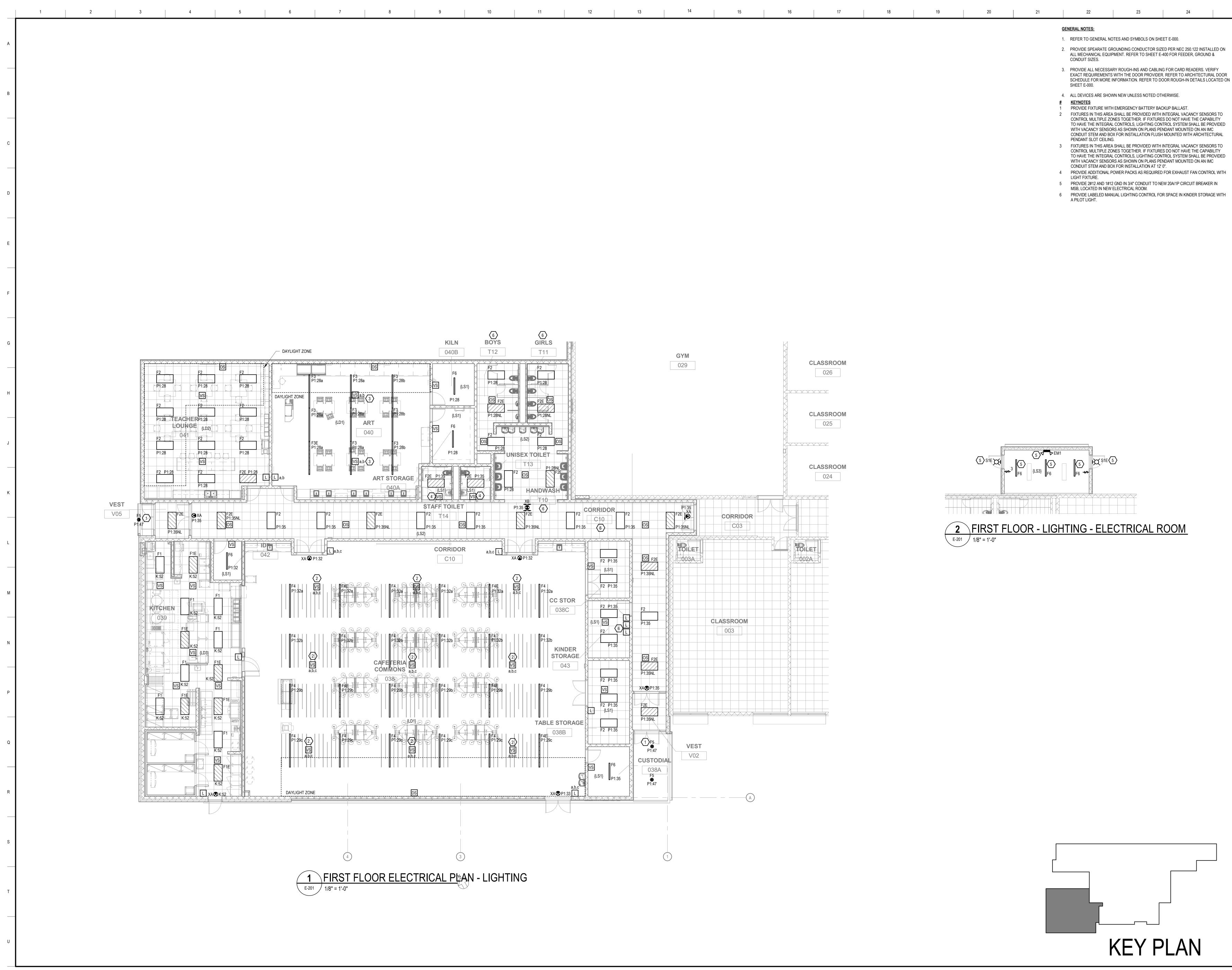
<u>KEYNOTES</u>

ADDRESSABLE RELAY FOR UNIT SHUT DOWN TIED TO THE FACP. 2 REFER TO ELECTRICAL ONE-LINE DIAGRAM ON SHEET E-300 AND MECHANICAL

EQUIPMENT SCHEDULE ON SHEET E-400 FOR CIRCUITING INFORMATION.

KEY PLAN



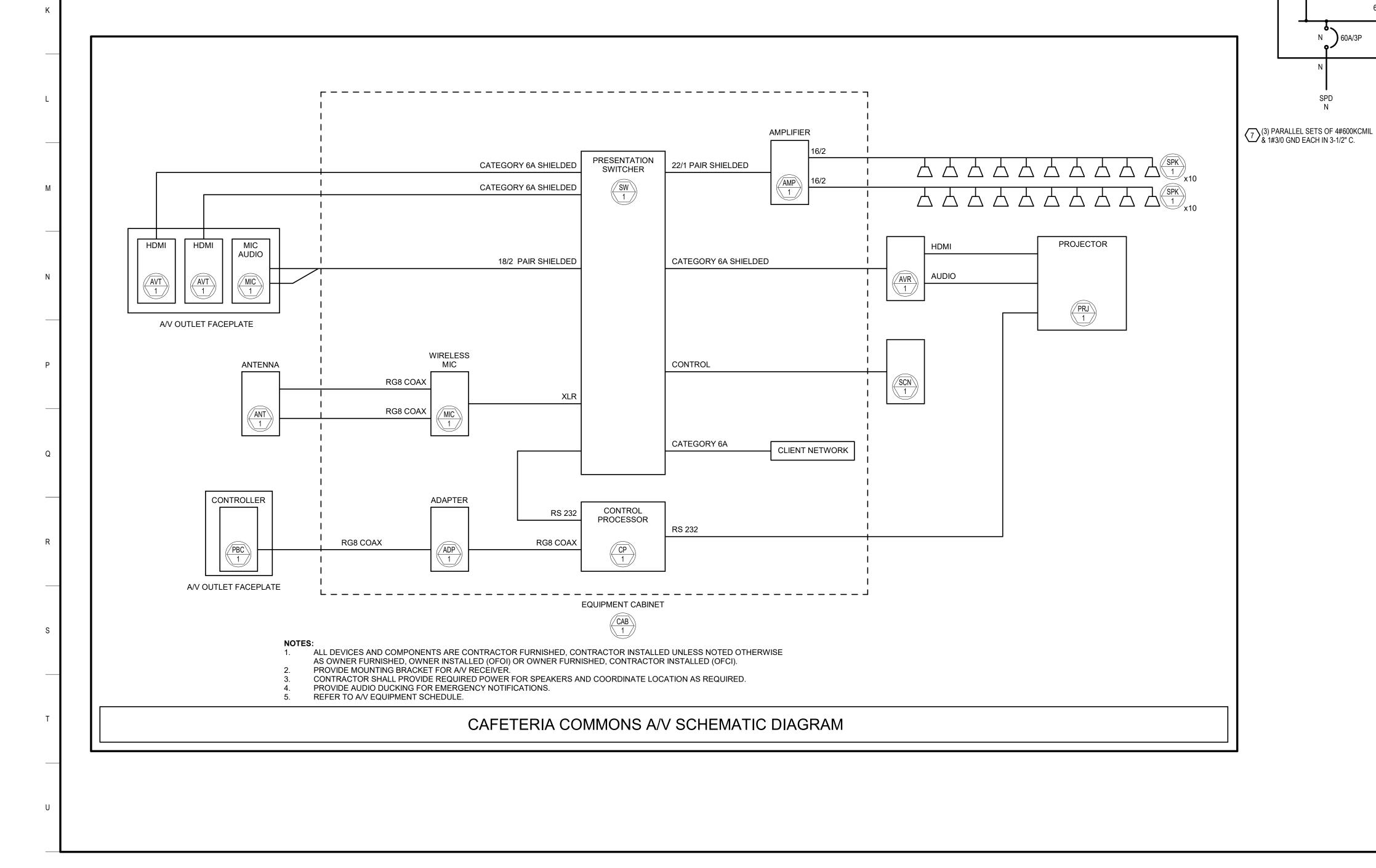




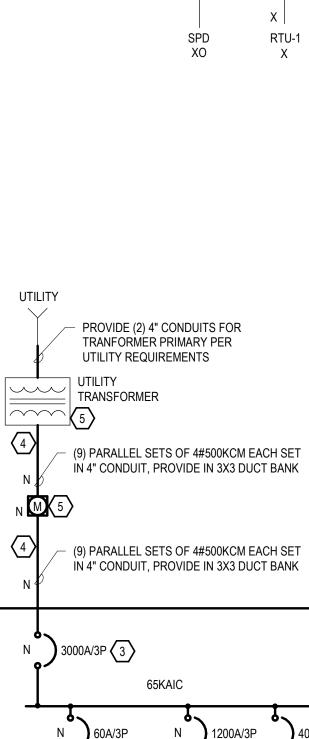
BID DOCUMENTS

AUDIO/VIDEO EQUIPMEN ITEM DESCRIPTION MANUFACTURER PART NUMBE ADAPTIVE CAPTIVE SCREW TO UTP DONGLE EXTRON CSC 6 2X500 WATT AMPLIFIER CROWN CDi 1000 WIRELESS RF ANTENNA RF VENUE DFIN AVR A/V TWISTED PAIR RECEIVER EXTRON DTP T HWP 4K 331 D AVT A/V TWISTED PAIR TRANSMITTER EXTRON DTP HDMI 4K 330 RX CAB TRIPP LITE VERTICAL EQUIPMENT CABINET SRWF6 U36 A/V CONTROL PROCESSOR EXTRON IPCP PRO 250 XI MIC MICROPHONE - HARD WIRED CONNECTOR: D-J3M RDL MICROPHONE: QLXD2/SM58 SHURE MIC MICROPHONE - WIRELESS SHURE QLXD 124/58 /PBC A/V PUSH BUTTON CONTROLLER EXTRON EBP 200 (/ PRJ 🔪 PROJECTOR - LARGE VENUE 9,000 LUMEN, 4K, WUXGA VIVITEK DU7295Z PS PRESENTATION SWITCHER, 8-INPUT, 4K EXTRON IN1808 IPCP SA SCN DA-LITE 70192LS PROJECTOR SCREEN, 137" DIAGONAL, 16:10, TENSIONED, WALL MOUNT, MATTE WHITE. PROVIDED REQUIRED MOUNTING HARDWARE. PENDANT SPEAKERS, PAIR, WHITE EXTRON SF 26PT I SW PRESENTER SWITCH EXTRON IN1808 - PART NUMBER 60-1615-01 **GENERAL NOTES:** A. CONTRACTOR SHALL PROVIDE REMOTE POWER SUPPLIES AS REQUIRED IF EQUIPMENT DOES NOT OBTAIN POE POWER FROM A/V HEAD END EQUIPMENT

CONTRACTOR SHALL PROVIDE NETWORK CONNECTIONS AS PART OF THIS SCOPE OF WORK. CONTRACTOR SHALL PROVIDE A/V NETWORK SWITCH, SIZED AS NECESSARY TO ACCOMMODATE CONNECTION OF A/V EQUIPMENT. EXACT MODEL SHALL BE COORDINATED WITH OWNER'S IT PERSONNEL PRIOR TO PURCHASE AND INSTALLATION. FINAL COLOR OF A/V TRANSMITTERS, RECEIVERS AND SPEAKERS SHALL BE COORDINATED WITH ARCHITECT.



IT SCHEDULE		
BER	ACCESSORIES OR NOTES	APPROVED EQUALS
	19" RACK MOUNT KIT	CRESTRON AMX APPROVED EQUAL
	19" RACK MOUNT KIT	CRESTRON AMX APPROVED EQUAL
	MOUNTING BRACKET	AUDIO TECHNICA SENNHEISER SHURE
	COLOR SHALL BE COORDINATED WITH ARCHITECT	CRESTRON AMX APPROVED EQUAL
	COLOR SHALL BE COORDINATED WITH ARCHITECT	CRESTRON AMX APPROVED EQUAL
	PDU: PDU1415 BLANKING PANEL: EB1	NAVEPOINT MIDDLE ATLANTIC APPROVED EQUAL
		CRESTRON AMX APPROVED EQUAL
		AUDIO TECHNICA SENNHEISER APPROVED EQUAL
	LAVALIER QLXD1 AND WL185	AUDIO TECHNICA SENNHEISER APPROVED EQUAL
	COLOR SHALL BE COORDINATED WITH ARCHITECT	CRESTRON AMX APPROVED EQUAL
	LONG THROW LENS: 5811119237-SVV	APPROVED EQUAL
		CRESTRON AMX APPROVED EQUAL
		APPROVED EQUAL
	70V TAPPED AT 32 WATTS, PENDANT LENGTH SHALL BE COORDINATED WITH PENDANT LIGHT FIXTURES	JBL APPROVED EQUAL
		CRESTRON AMX APPROVED EQUAL



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FROM EXISTING SERVICE

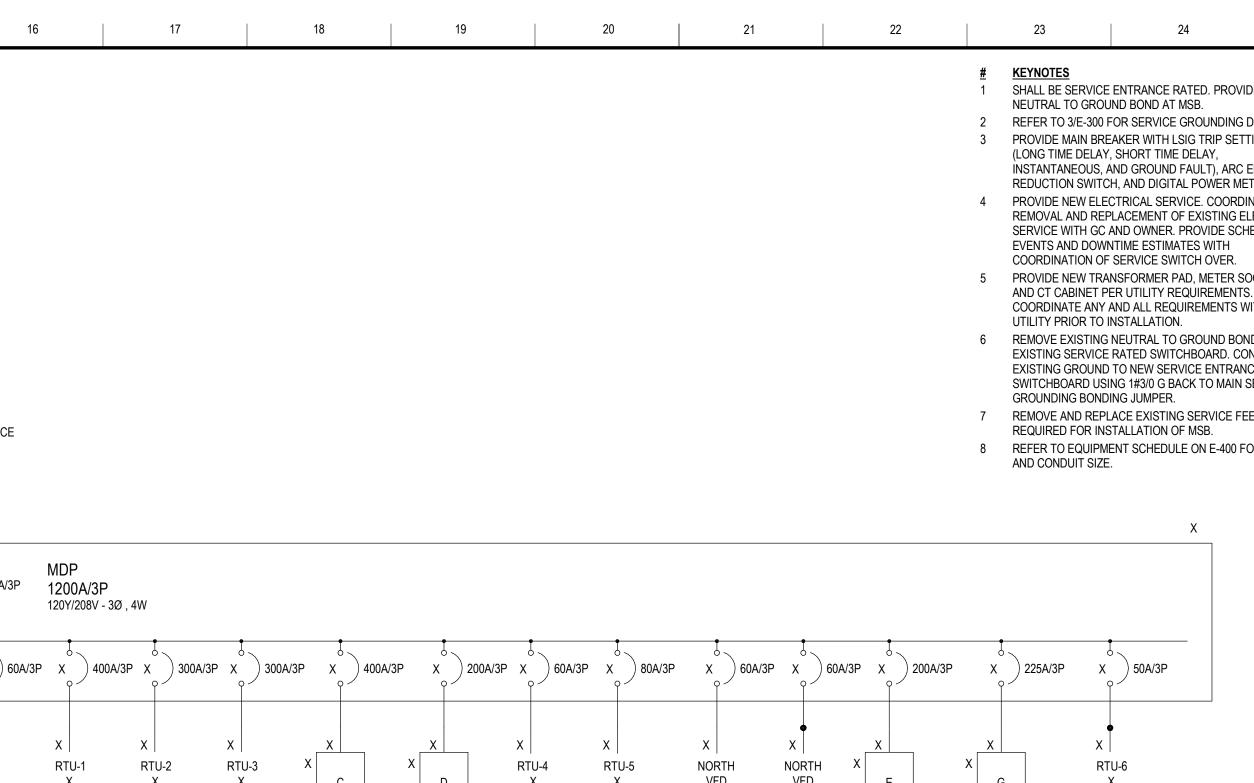
X) 1200A/3P

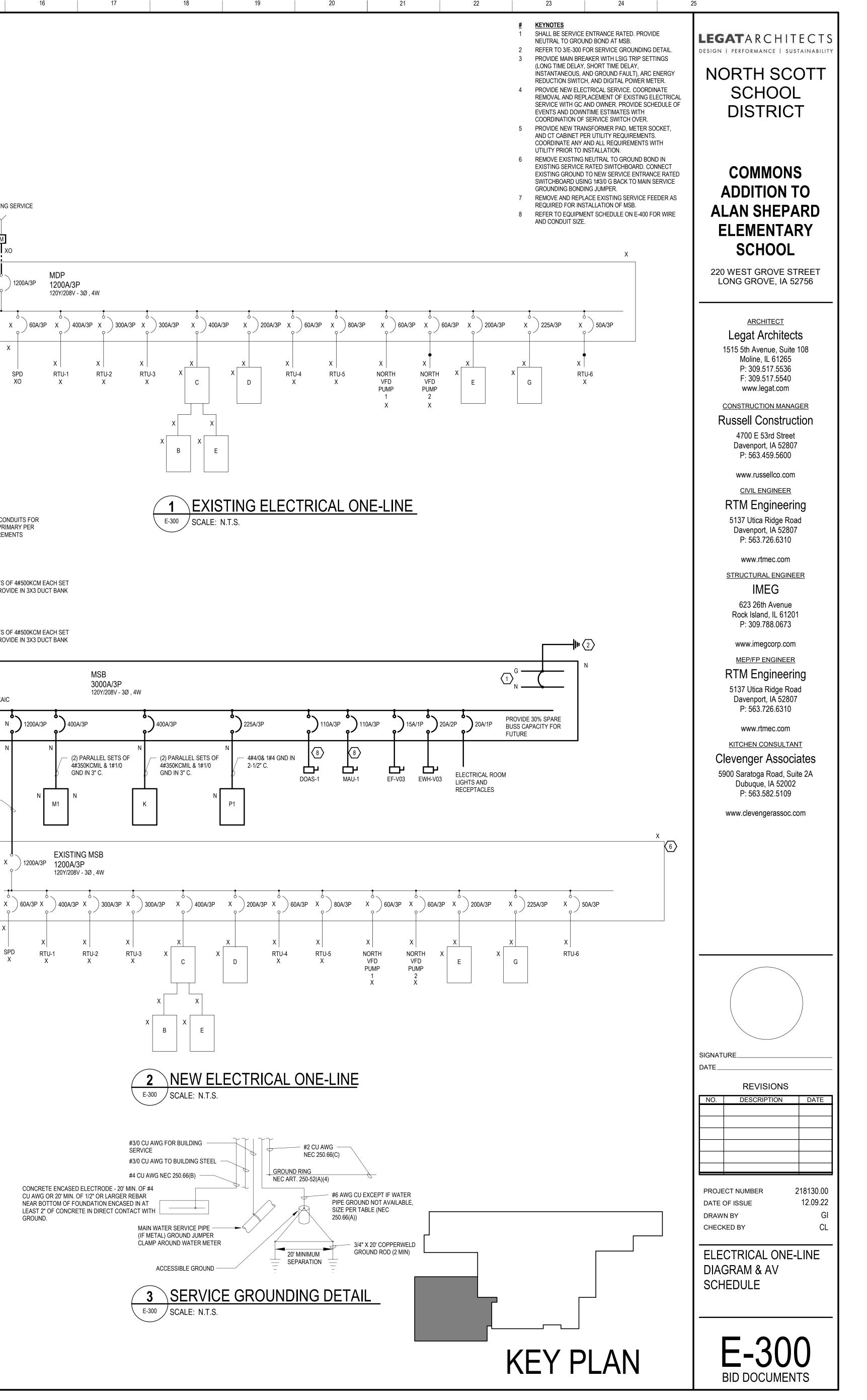
GROUND.

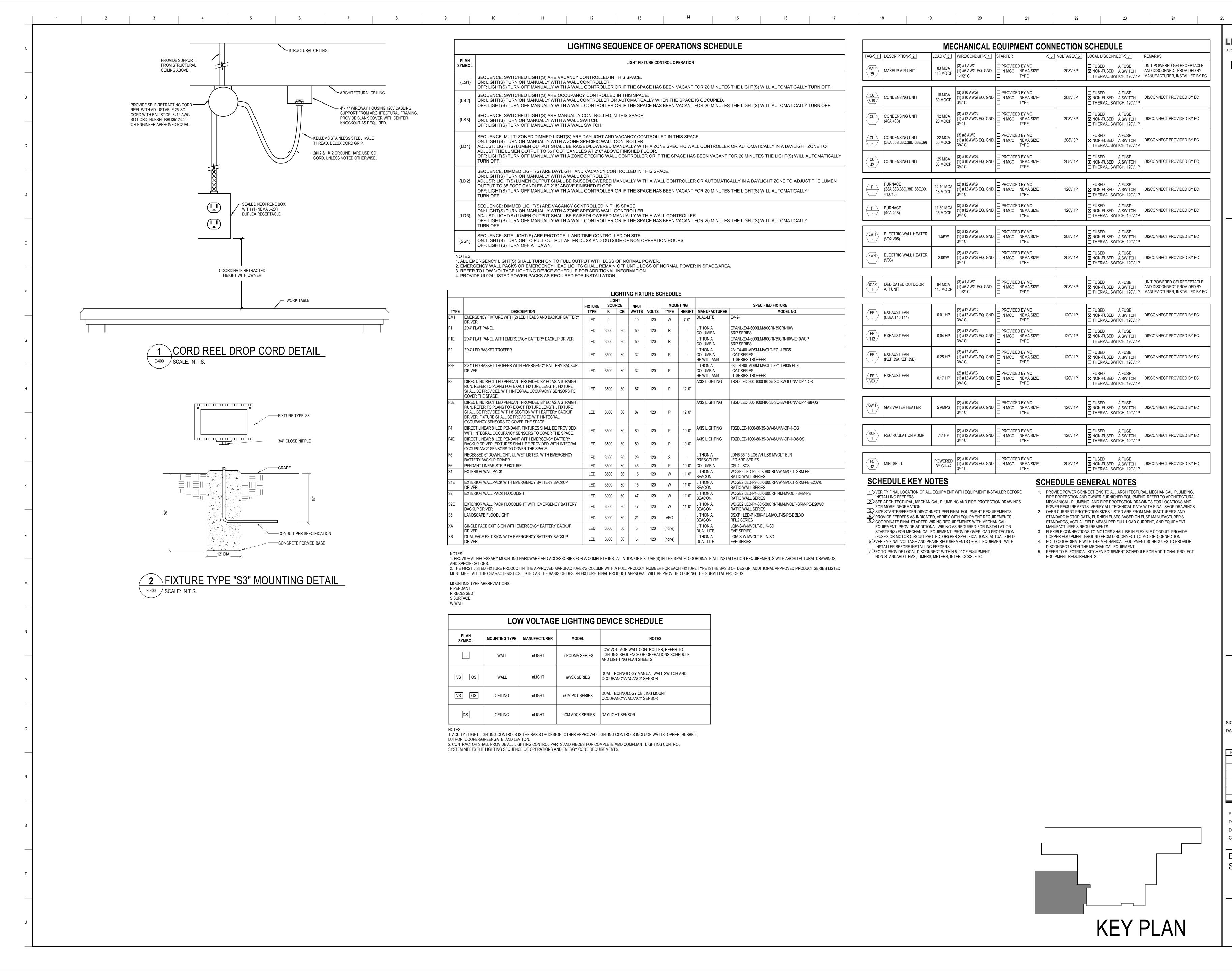
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9		10 11	12		13			14		15 16 17		18	9	20 21	22	23	24
		LIG	HTING	SEQ	UENCE	OF C	PERA			OULE			ME	CHANICAL EQUIPMENT	CONNECTION	SCHEDULE	
	PLAN										TAG<1	DESCRIPTION 2	LOAD<3	WIRE/CONDUIT	5 VOLTAGE 6	LOCAL DISCONNECT	REMARKS
SY	YMBOL	SEQUENCE: SWITCHED LIGHT(S) ARE VACANCY ON: LIGHT(S) TURN ON MANUALLY WITH A WALL	CONTROL CONTROL	LED IN ⁻ LER.		(TURE CO		ERATION			(MAU) 39	MAKEUP AIR UNIT	83 MCA 110 MOCP	(3) #1 AWG□ PROVIDED BY MC(1) #6 AWG EQ. GND.□ IN MCC1-1/2" C.□ TYPE	'E 208V 3P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	UNIT POWERED GFI RECEPTACLE AND DISCONNECT PROVIDED BY MANUFACTURER, INSTALLED BY EC
{	LS2}	OFF: LIGHT(S) TURN OFF MANUALLY WITH A WAL SEQUENCE: SWITCHED LIGHT(S) ARE OCCUPAN ON: LIGHT(S) TURN ON MANUALLY WITH A WALL	LL CONTR CY CONTF CONTROL	OLLER OR	IN THIS SPACE	CE. CALLY W	HEN THE	SPACE	IS OCCUPIED.	ES THE LIGHT(S) WILL AUTOMATICALLY TURN OFF.	CU C10	CONDENSING UNIT	18 MCA 30 MOCP	(3) #10 AWG (1) #10 AWG EQ. GND. ☐ IN MCC NEMA SIZ 3/4" C. TYPE	208V 3P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
{		SEQUENCE: SWITCHED LIGHT(S) ARE MANUALLY ON: LIGHT(S) TURN ON MANUALLY WITH A WALL OFF: LIGHT(S) TURN OFF MANUALLY WITH A WAL	SWITCH.		THIS SPACE	Ξ.						CONDENSING UNIT (40A,40B)	12 MCA 20 MOCP	(3) #12 AWG (1) #12 AWG EQ. GND. ☐ IN MCC NEMA SIZ 3/4" C. TYPE	208V 3P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
{	LD1}	SEQUENCE: MULTI-ZONED DIMMED LIGHT(S) ARI ON: LIGHT(S) TURN ON MANUALLY WITH A ZONE ADJUST: LIGHT(S) LUMEN OUTPUT SHALL BE RAI ADJUST THE LUMEN OUTPUT TO 35 FOOT CANDI	SPECIFIC ISED/LOW	WALL C ERED M	ONTROLLER	R. TH A ZO				R OR AUTOMATICALLY IN A DAYLIGHT ZONE TO	CU -	CONDENSING UNIT (38A,38B,38C,38D,38E,39)	22 MCA 35 MOCP	(3) #8 AWG (1) #10 AWG EQ. GND. ☐ IN MCC NEMA SIZ 3/4" C. TYPE	208V 3P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
			NE SPECIF	IC WALL	CONTROLLE	ER OR IF		CE HAS	BEEN VACAN	FOR 20 MINUTES THE LIGHT(S) WILL AUTOMATICALLY		CONDENSING UNIT	25 MCA 30 MOCP	(3) #10 AWG (1) #10 AWG EQ. GND. □ IN MCC NEMA SIZ 3/4" C. TYPE	'E 208V 1P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
1	LD2}	ON: LIGHT(S) TURN ON MANUALLY WITH A WALL	CONTROL	LER.				ROLLER		ICALLY IN A DAYLIGHT ZONE TO ADJUST THE LUMEN							
1		OUTPUT TO 35 FOOT CANDLES AT 2' 6" ABOVE FI OFF: LIGHT(S) TURN OFF MANUALLY WITH A WAL TURN OFF.	INISHED F	LOOR.							F	FURNACE (38A,38B,38C,38D,38E,39, 41,C10)	14.10 MCA 15 MOCP	(2) #12 AWG (1) #12 AWG EQ. GND. ☐ IN MCC NEMA SIZ 3/4" C. TYPE	'E 120V 1P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
{	LD3}	SEQUENCE: DIMMED LIGHT(S) ARE VACANCY CC ON: LIGHT(S) TURN ON MANUALLY WITH A ZONE ADJUST: LIGHT(S) LUMEN OUTPUT SHALL BE RAI OFF: LIGHT(S) TURN OFF MANUALLY WITH A WAI	SPECIFIC ISED/LOW	WALL C ERED M	ONTROLLER	TH A WA				S THE LIGHT(S) WILL AUTOMATICALLY	F -	FURNACE (40A,40B)	11.30 MCA 15 MOCP	(2) #12 AWG (1) #12 AWG EQ. GND. □ IN MCC NEMA SIZ 3/4" C. TYPE	'E 120V 1P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
{		TURN OFF. SEQUENCE: SITE LIGHT(S) ARE PHOTOCELL AND ON: LIGHT(S) TURN ON TO FULL OUTPUT AFTER OFF: LIGHT(S) TURN OFF AT DAWN.	D TIME CO DUSK ANI	NTROLL DOUTSI	ED ON SITE. DE OF NON-0	OPERAT	ON HOUF	RS.			EWH -	ELECTRIC WALL HEATER (V02,V05)	1.5KW	(2) #12 AWG (1) #12 AWG EQ. GND. ☐ IN MCC NEMA SIZ 3/4" C. TYPE	208V 1P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
1. / 2. I	DTES: ALL EM EMERG	ERGENCY LIGHT(S) SHALL TURN ON TO FULL OU SENCY WALL PACKS OR EMERGENCY HEAD LIGHT	FS SHALL I	REMAIN	OFF UNTIL L	OSS OF	NORMAL	POWER	R IN SPACE/ARE	 EA.	EWH -	ELECTRIC WALL HEATER (V03)	2.0KW	(2) #12 AWG (1) #12 AWG EQ. GND. ☐ IN MCC NEMA SIZ 3/4" C. TYPE	'E 208V 1P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
		TO LOW VOLTAGE LIGHTING DEVICE SCHEDULE I DE UL924 LISTED POWER PACKS AS REQUIRED FO				N.						DEDICATED OUTDOOR AIR UNIT	84 MCA 110 MOCP	(3) #1 AWG (1) #6 AWG EQ. GND. □ IN MCC NEMA SIZ	'E 208V 3P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH	UNIT POWERED GFI RECEPTACLE AND DISCONNECT PROVIDED BY
							CHEDUL	E						1-1/2" C. TYPE		THERMAL SWITCH, 120V,1P	MANUFACTURER, INSTALLED BY E
TYPE		DECODIDION	FIXTURE	LIGI	RCE INPUT		MOUN			SPECIFIED FIXTURE				(2) #12 AWG		G FUSED A FUSE	
EM1		DESCRIPTION GENCY FIXTURE WITH (2) LED HEADS AND BACKUP BATTERY	LED	К 0	CRI WATTS 10	120	W		MANUFACTURE	R MODEL NO. EV-2-I	EF -	EXHAUST FAN (038A,T13,T14)	0.01 HP	(1) #12 AWG EQ. GND. ☐ IN MCC NEMA SIZ 3/4" C. TYPE	E 120V 1P	NON-FUSED A SWITCH	DISCONNECT PROVIDED BY EC
F1	DRIVEF 2'X4' FL	R. LAT PANEL	LED	3500	80 50	120	R	-	LITHONIA COLUMIBA	EPANL-2X4-6000LM-80CRI-35CRI-10W SRP SERIES	EF			(2) #12 AWG		☐ FUSED A FUSE	
F1E	2'X4' Fl	LAT PANEL WITH EMERGENCY BATTERY BACKUP DRIVER	LED	3500	80 50	120	R	-	LITHONIA COLUMBIA	EPANL-2X4-6000LM-80CRI-35CRI-10W-E10WCP SRP SERIES		EXHAUST FAN	0.04 HP	(1) #12 AWG EQ. GND. ☐ IN MCC NEMA SIZ 3/4" C.	'E 120V 1P	☑ NON-FUSED A SWITCH □ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
F2		ED BASKET TROFFER	LED	3500	80 32	120	R		LITHONIA COLUMBIA HE WILLIAMS	2BLT4-40L-ADSM-MVOLT-EZ1-LP835 LCAT SERIES LT SERIES TROFFER	EF -	EXHAUST FAN (KEF 39A,KEF 39B)	0.25 HP	(2) #12 AWG □ PROVIDED BY MC (1) #12 AWG EQ. GND. □ IN MCC NEMA SIZ 3/4" C. □ TYPE	'E 120V 1P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
F2E	2'X4' LE DRIVEF	ED BASKET TROFFER WITH EMERGENCY BATTERY BACKUP R.	LED	3500	80 32	120	R		LITHONIA Columbia He Williams	2BLT4-40L-ADSM-MVOLT-EZ1-LP835-EL7L LCAT SERIES LT SERIES TROFFER	EF	EXHAUST FAN	0.17 HP	(2) #12 AWG (1) #12 AWG EQ. GND. IN MCC NEMA SIZ	'E 120V 1P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH	DISCONNECT PROVIDED BY EC
F3	RUN. R SHALL	T/INDIRECT LED PENDANT PROVIDED BY EC AS A STRAIGHT REFER TO PLANS FOR EXACT FIXTURE LENGTH. FIXTURE . BE PROVIDED WITH INTEGRAL OCCUPACNY SENSORS TO R THE SPACE.	LED	3500	80 87	120	Р	12' 0"	AXIS LIGHTING	TB2DILED-300-1000-80-35-SO-BW-8-UNV-DP-1-OS	<u></u>		0.1711			THERMAL SWITCH, 120V,1P	
F3E	DIREC RUN. R SHALL DRIVER	T/INDIRECT LED PENDANT PROVIDED BY EC AS A STRAIGHT REFER TO PLANS FOR EXACT FIXTURE LENGTH. FIXTURE . BE PROVIDED WITH 8' SECTION WITH BATTERY BACKUP R. FIXTURE SHALL BE PROVIDED WITH INTEGRAL PANCY SENSORS TO COVER THE SPACE.	LED	3500	80 87	120	Р	12' 0"	AXIS LIGHTING	TB2DILED-300-1000-80-35-SO-BW-8-UNV-DP-1-B8-OS	GWH 1	GAS WATER HEATER	5 AMPS	(2) #10 AWG (1) #10 AWG EQ. GND. ☐ IN MCC NEMA SIZ 3/4" C. TYPE	те 120V 1Р	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
F4	DIREC	T LINEAR 8' LED PENDANT. FIXTURES SHALL BE PROVIDED INTEGRAL OCCUPANCY SENSORS TO COVER THE SPACE.	LED	3500	80 80	120	Р	10' 0"	AXIS LIGHTING	TB2DLED-1000-80-35-BW-8-UNV-DP-1-OS	RCP		(=) =	(2) #12 AWG		☐ FUSED A FUSE	
F4E	DIREC ⁻ BACKU	T LINEAR 8' LED PENDANT WITH EMERGENCY BATTERY JP DRIVER. FIXTURES SHALL BE PROVIDED WITH INTEGRAL PCANCY SENSORS TO COVER THE SPACE.	LED	3500	80 80	120	Р	10' 0"	AXIS LIGHTING	TB2DLED-1000-80-35-BW-8-UNV-DP-1-B8-OS		RECIRCULATION PUMP	.17 HP	(1) #12 AWG EQ. GND. ☐ IN MCC NEMA SIZ 3/4" C. TYPE	Έ 120V 1P	■ NON-FUSED A SWITCH ■ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
F5	RECES	SSED 6" DOWNLIGHT, UL WET LISTED, WITH EMERGENCY RY BACKUP DRIVER.	LED	3500	80 29	120	S	-	LITHONIA PRESCOLITE	LDN6-35-15-LO6-AR-LSS-MVOLT-ELR LFR-6RD SERIES				(2) #10 AWG		GIN FUSED A FUSE	
F6	PENDA	ANT LINEAR STRIP FIXTURE	LED	3500	80 45	120	Р	10' 0"	COLUMBIA	CSL4-LSCS	$\left\langle \begin{array}{c} FC \\ 42 \end{array} \right\rangle$	MINI-SPLIT	POWERED BY CU-42	(1) #10 AWG EQ. GND. ☐ IN MCC NEMA SIZ 3/4" C. TYPE	E 208V 1P	■ NON-FUSED A SWITCH ■ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
S1		RIOR WALLPACK	LED	3500	80 15	120	W	11' 0"	LITHONIA BEACON	WDGE2 LED-P2-35K-80CRI-VW-MVOLT-SRM-PE RATIO WALL SERIES			<u> </u> חדבף				I
S1E	DRIVE		LED	3500	80 15	120	W	11' 0"	LITHONIA BEACON	WDGE2 LED-P2-35K-80CRI-VW-MVOLT-SRM-PE-E20WC RATIO WALL SERIES		IEDULE KEY N				ENERAL NOTES	
S2	EXTER	RIOR WALL PACK FLOODLIGHT	LED	3000	80 47	120	W	11' 0"	LITHONIA BEACON	WDGE2 LED-P4-30K-80CRI-T4M-MVOLT-SRM-PE RATIO WALL SERIES	INS	TALLING FEEDERS.			FIRE PROTECTION A	NNECTIONS TO ALL ARCHITECTUR	NT. REFER TO ARCHITECTURAL,
S2E		RIOR WALL PACK FLOODLIGHT WITH EMERGENCY BATTERY	LED	3000	80 47	120	W	11' 0"	LITHONIA BEACON	WDGE2 LED-P4-30K-80CRI-T4M-MVOLT-SRM-PE-E20WC RATIO WALL SERIES	FO	R MORE INFORMATION.			POWER REQUIREMEN	BING, AND FIRE PROTECTION DRAY	A WITH FINAL SHOP DRAWINGS.
S3		SCAPE FLOODLIGHT	LED	3000	80 21	120	AFG	-	LITHONIA BEACON	DSXF1 LED-P1-30K-FL-MVOLT-IS-PE-DBLXD RFL2 SERIES	L <u>4</u> PR	OVIDE FEEDERS AS INDICAT	ED. VERIFY W	IAL EQUIPMENT REQUIREMENTS. TH EQUIPMENT REQUIREMENTS. REMENTS WITH MECHANICAI	STANDARD MOTOR D	DTECTION SIZES LISTED ARE FROM DATA, FURNISH FUSES BASED ON I LEIELD MEASURED FULL LOAD CU	FUSE MANUFACTURER'S

9		10 11	12			13		т- -	10 17	18 1	9	20	21	22	23	24
		LIGH	ITING	SEC	QUENC	E OF O	PER	ATIONS SCHEI	DULE		ME	CHANICAL E		CONNECTION	SCHEDULE	
										TAG<1 DESCRIPTION	LOAD < 3	WIRE/CONDUIT	STARTER	5 VOLTAGE 6	LOCAL DISCONNECT	REMARKS
s	PLAN YMBOL	SEQUENCE: SWITCHED LIGHT(S) ARE VACANCY C				FIXTURE CO	NTROL O	PERATION		MAU 39 MAKEUP AIR UNIT	83 MCA 110 MOCP	(3) #1 AWG (1) #6 AWG EQ. GND. 1-1/2" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	E 208V 3P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	UNIT POWERED GFI RECEPTACLE AND DISCONNECT PROVIDED BY MANUFACTURER, INSTALLED BY E
	{LS1}	ON: LIGHT(S) TURN ON MANUALLY WITH A WALL C OFF: LIGHT(S) TURN OFF MANUALLY WITH A WALL	CONTR	OLLER			6 BEEN	VACANT FOR 20 MINUTI	ES THE LIGHT(S) WILL AUTOMATICALLY TURN OFF.			(3) #10 AWG			☐ FUSED A FUSE	
	{LS2}	SEQUENCE: SWITCHED LIGHT(S) ARE OCCUPANC ON: LIGHT(S) TURN ON MANUALLY WITH A WALL C OFF: LIGHT(S) TURN OFF MANUALLY WITH A WALL	ONTROL	LER OI	R AUTOMA	TICALLY WI			ES THE LIGHT(S) WILL AUTOMATICALLY TURN OFF.	CU C10 CONDENSING UNIT	18 MCA 30 MOCP	(1) #10 AWG EQ. GND. 3/4" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	E 208V 3P	NON-FUSED A SWITCH THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
	{LS3}	SEQUENCE: SWITCHED LIGHT(S) ARE MANUALLY (ON: LIGHT(S) TURN ON MANUALLY WITH A WALL S OFF: LIGHT(S) TURN OFF MANUALLY WITH A WALL	WITCH.		N THIS SPA	CE.				CU - CONDENSING UNIT (40A,40B)	12 MCA 20 MOCP	(3) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	E 208V 3P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
	{LD1}	SEQUENCE: MULTI-ZONED DIMMED LIGHT(S) ARE ON: LIGHT(S) TURN ON MANUALLY WITH A ZONE S ADJUST: LIGHT(S) LUMEN OUTPUT SHALL BE RAIS ADJUST THE LUMEN OUTPUT TO 35 FOOT CANDLE OFF: LIGHT(S) TURN OFF MANUALLY WITH A ZONE	PECIFIC ED/LOW ES AT 2' 6	WALL (ERED N 6" ABO\	CONTROLL MANUALLY VE FINISHE	ER. WITH A ZOI D FLOOR.	NE SPE	CIFIC WALL CONTROLLE	ER OR AUTOMATICALLY IN A DAYLIGHT ZONE TO T FOR 20 MINUTES THE LIGHT(S) WILL AUTOMATICALLY	CU - CONDENSING UNIT (38A,38B,38C,38D,38E,39)	22 MCA 35 MOCP	(1) #10 AWG EQ. GND. 3/4" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE PROVIDED BY MC	E 208V 3P	□ FUSED A FUSE □ FUSED A SWITCH □ THERMAL SWITCH, 120V,1P □ FUSED A FUSE	DISCONNECT PROVIDED BY EC
		TURN OFF. SEQUENCE: DIMMED LIGHT(S) ARE DAYLIGHT AND	VACAN		NTROLLED	IN THIS SP	ACE.			CU 42 CONDENSING UNIT	25 MCA 30 MOCP	(1) #10 AWG EQ. GND. 3/4" C.	IN MCC NEMA SIZE	E 208V 1P	■ FUSED A FUSE ■ NON-FUSED A SWITCH ■ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
	{LD2}	ON: LIGHT(S) TURN ON MANUALLY WITH A WALL C ADJUST: LIGHT(S) LUMEN OUTPUT SHALL BE RAIS OUTPUT TO 35 FOOT CANDLES AT 2' 6" ABOVE FIN OFF: LIGHT(S) TURN OFF MANUALLY WITH A WALL TURN OFF.	ISHED FI	LOOR.					TICALLY IN A DAYLIGHT ZONE TO ADJUST THE LUMEN	FURNACE (38A,38B,38C,38D,38E,39, 41,C10)	14.10 MCA 15 MOCP	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	E 120V 1P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
	{LD3}	SEQUENCE: DIMMED LIGHT(S) ARE VACANCY CON ON: LIGHT(S) TURN ON MANUALLY WITH A ZONE S ADJUST: LIGHT(S) LUMEN OUTPUT SHALL BE RAIS OFF: LIGHT(S) TURN OFF MANUALLY WITH A WALL TURN OFF.	PECIFIC ED/LOW	WALL (ERED N	CONTROLL MANUALLY	WITH A WA			ES THE LIGHT(S) WILL AUTOMATICALLY	FURNACE (40A,40B)	11.30 MCA 15 MOCP	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	E 120V 1P	□ FUSED A FUSE ☑ NON-FUSED A SWITCH □ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
		SEQUENCE: SITE LIGHT(S) ARE PHOTOCELL AND T ON: LIGHT(S) TURN ON TO FULL OUTPUT AFTER D OFF: LIGHT(S) TURN OFF AT DAWN.	FIME COI USK ANE	NTROLI O OUTS	LED ON SIT SIDE OF NO	E. N-OPERATI	ON HOU	JRS.		ELECTRIC WALL HEATER (V02,V05)	1.5KW	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	PROVIDED BY MC IN MCC NEMA SIZE TYPE	E 208V 1P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
1.	DTES: ALL EM	IERGENCY LIGHT(S) SHALL TURN ON TO FULL OUTF SENCY WALL PACKS OR EMERGENCY HEAD LIGHTS					NORMA	I POWER IN SPACE/ARI	ΞΑ	ELECTRIC WALL HEATER (V03)	2.0KW		PROVIDED BY MC IN MCC NEMA SIZE TYPE	E 208V 1P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
3.	REFER	TO LOW VOLTAGE LIGHTING DEVICE SCHEDULE FO DE UL924 LISTED POWER PACKS AS REQUIRED FOR	OR ADDI	FIONAL LATION	INFORMAT	ΓΙΟΝ.				DOAS 1 DEDICATED OUTDOOR AIR UNIT	84 MCA 110 MOCP	11 HE AND FO CND	PROVIDED BY MC IN MCC NEMA SIZE TYPE	E 208V 3P		UNIT POWERED GFI RECEPTACLE AND DISCONNECT PROVIDED BY MANUFACTURER, INSTALLED BY I
					GHT ING F											
TYPE EM1		DESCRIPTION GENCY FIXTURE WITH (2) LED HEADS AND BACKUP BATTERY R.	FIXTURE TYPE LED	SOU K 0	JRCE INP CRI WA	UT TTS VOLTS 0 120		JNTING HEIGHT MANUFACTURE 7' 0" DUAL-LITE	SPECIFIED FIXTURE R MODEL NO. EV-2-I	EF - EXHAUST FAN (038A,T13,T14)	0.01 HP		PROVIDED BY MC IN MCC NEMA SIZE TYPE	E 120V 1P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
F1 F1E		LAT PANEL	LED	3500 3500	80 5 80 5		R R	- LITHONIA COLUMIBA LITHONIA	EPANL-2X4-6000LM-80CRI-35CRI-10W SRP SERIES EPANL-2X4-6000LM-80CRI-35CRI-10W-E10WCP	EF EXHAUST FAN	0.04 HP		PROVIDED BY MC IN MCC NEMA SIZE TYPE	E 120V 1P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
F2	2'X4' LE	ED BASKET TROFFER	LED	3500	80 3		R	COLUMBIA	SRP SERIES 2BLT4-40L-ADSM-MVOLT-EZ1-LP835 LCAT SERIES	EF EXHAUST FAN	0.25 HP			E 120V 1P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH	DISCONNECT PROVIDED BY EC
F2E	2'X4' LE DRIVE	ED BASKET TROFFER WITH EMERGENCY BATTERY BACKUP R.	LED	3500	80 3	2 120	R	HE WILLIAMS LITHONIA - COLUMBIA	LT SERIES TROFFER 2BLT4-40L-ADSM-MVOLT-EZ1-LP835-EL7L LCAT SERIES	(KEF 39A,KEF 39B)	0.2011	3/́4" C.			THERMAL SWITCH, 120V,1P	
F3	RUN. F	T/INDIRECT LED PENDANT PROVIDED BY EC AS A STRAIGHT REFER TO PLANS FOR EXACT FIXTURE LENGTH. FIXTURE . BE PROVIDED WITH INTEGRAL OCCUPACNY SENSORS TO	LED	3500	80 8	7 120	Р	HE WILLIAMS AXIS LIGHTING 12' 0"	LT SERIES TROFFER TB2DILED-300-1000-80-35-SO-BW-8-UNV-DP-1-OS	EF EXHAUST FAN	0.17 HP	(1) #12 AWG EQ. GND. 3/4" C.	IN MCC NEMA SIZE	E 120V 1P	NON-FUSED A SWITCH THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
F3E	COVER DIREC RUN. R SHALL DRIVER	R THE SPACE. T/INDIRECT LED PENDANT PROVIDED BY EC AS A STRAIGHT REFER TO PLANS FOR EXACT FIXTURE LENGTH. FIXTURE . BE PROVIDED WITH 8' SECTION WITH BATTERY BACKUP R. FIXTURE SHALL BE PROVIDED WITH INTEGRAL PANCY SENSORS TO COVER THE SPACE.	LED	3500	80 8	7 120	Р	AXIS LIGHTING	TB2DILED-300-1000-80-35-SO-BW-8-UNV-DP-1-B8-OS	GWH GAS WATER HEATER	5 AMPS		PROVIDED BY MC IN MCC NEMA SIZE TYPE	E 120V 1P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH ☐ THERMAL SWITCH, 120V,1P	DISCONNECT PROVIDED BY EC
F4	DIREC	T LINEAR 8' LED PENDANT. FIXTURES SHALL BE PROVIDED INTEGRAL OCCUPANCY SENSORS TO COVER THE SPACE.	LED	3500	80 8	0 120	Р	10' 0" AXIS LIGHTING	TB2DLED-1000-80-35-BW-8-UNV-DP-1-OS	RECIRCULATION PUMP	.17 HP	(2) #12 AWG	PROVIDED BY MC IN MCC NEMA SIZE	E 120V 1P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH	DISCONNECT PROVIDED BY EC
F4E	BACKU	T LINEAR 8' LED PENDANT WITH EMERGENCY BATTERY JP DRIVER. FIXTURES SHALL BE PROVIDED WITH INTEGRAL PCANCY SENSORS TO COVER THE SPACE.	LED	3500	80 8	0 120	Р	10' 0" AXIS LIGHTING	TB2DLED-1000-80-35-BW-8-UNV-DP-1-B8-OS		. 17 111	3/4" C.			THERMAL SWITCH, 120V,1P	
F5 F6	BATTE	SSED 6" DOWNLIGHT, UL WET LISTED, WITH EMERGENCY RY BACKUP DRIVER. ANT LINEAR STRIP FIXTURE	LED LED	3500 3500	80 2 80 4		S	- LITHONIA PRESCOLITE 10' 0" COLUMBIA	LDN6-35-15-LO6-AR-LSS-MVOLT-ELR LFR-6RD SERIES CSL4-LSCS	$\left\langle \begin{array}{c} FC \\ 42 \end{array} \right\rangle$ MINI-SPLIT	POWERED BY CU-42	(1) #10 AWG EQ. GND.	PROVIDED BY MC IN MCC NEMA SIZE	E 208V 1P	☐ FUSED A FUSE ☑ NON-FUSED A SWITCH	DISCONNECT PROVIDED BY EC
S1		RIOR WALLPACK	LED	3500	80 1	5 120	w	LITHONIA	WDGE2 LED-P2-35K-80CRI-VW-MVOLT-SRM-PE		2.0042	3/4" C.	D TYPE		THERMAL SWITCH, 120V,1P	
S1E		RIOR WALLPACK WITH EMERGENCY BATTERY BACKUP	LED	3500	80 1	5 120	۱۸/	11'0" BEACON	RATIO WALL SERIES WDGE2 LED-P2-35K-80CRI-VW-MVOLT-SRM-PE-E20WC	SCHEDULE KEY N	<u>OTES</u>			SCHEDULE GI	ENERAL NOTES	
S2	DRIVE	R RIOR WALL PACK FLOODLIGHT						BEACON	RATIO WALL SERIES WDGE2 LED-P4-30K-80CRI-T4M-MVOLT-SRM-PE	VERIFY FINAL LOCATION OF AL		F WITH EQUIPMENT INST.	-	1. PROVIDE POWER CO	NNECTIONS TO ALL ARCHITECTUR	
			LED	3000	80 4	7 120	W	BEACON	RATIO WALL SERIES	INSTALLING FEEDERS.				FIRE PROTECTION AN	ND OWNER FURNISHED EQUIPMEN	IT. REFER TO ARCHITECTURAL,
S2E	BACKU	RIOR WALL PACK FLOODLIGHT WITH EMERGENCY BATTERY JP DRIVER	LED	3000	80 4	7 120	W	11' 0" LITHONIA BEACON	WDGE2 LED-P4-30K-80CRI-T4M-MVOLT-SRM-PE-E20WC RATIO WALL SERIES	FOR MORE INFORMATION.				POWER REQUIREMEN	NTS. VERIFY ALL TECHNICAL DATA	WITH FINAL SHOP DRAWINGS.
S3	LANDS	SCAPE FLOODLIGHT	LED	3000	80 2	1 120	AFG	- LITHONIA BEACON	DSXF1 LED-P1-30K-FL-MVOLT-IS-PE-DBLXD RFL2 SERIES	SIZE STARTER/FEEDER DISCONNECT PER FINAL EQUIPMENT REQUIREMENTS. SIZE STARTER/FEEDERS AS INDICATED, VERIFY WITH EQUIPMENT REQUIREMENTS. STANDARD MOTOR DATA, FURNISH FUSES BASED ON FUSE MAI STANDARDS, ACTUAL FIELD MEASURED FULL LOAD CURRENT, A						FUSE MANUFACTURER'S
XA	SINGLE FACE EXIT SIGN WITH EMERGENCY BATTERY BACKUP						LITHONIA	LQM-S-W-MVOLT-EL N-SD	EQUIPMENT, PROVIDE ADDITIC	NAL WIRING A	AS REQUIRED FOR INSTA	ALLATION	MANUFACTURER'S R	EQUIREMENTS.		
ХВ	DRIVE	FACE EXIT SIGN WITH EMERGENCY BATTERY BACKUP	LED	3500	80 5	5 120	(none)	DUAL LITE LITHONIA DUAL LITE	EVE SERIES LQM-S-W-MVOLT-EL N-SD EVE SERIES	STARTER(S) FOR MECHANICAL (FUSES OR MOTOR CIRCUIT PF 6>VERIFY FINAL VOLTAGE AND P	OTECTOR) PE	ER SPECIFICATIONS, AC	TUAL FIELD	COPPER EQUIPMENT	DNS TO MOTORS SHALL BE IN FLE GROUND FROM DISCONNECT TO WITH THE MECHANICAL EQUIPMEI	MOTOR CONNECTION.
L	-····		1	1	1	I	l			INSTALLER BEFORE INSTALLIN					THE MECHANICAL EQUIPMENT.	

NOTES: 1. PROVIDE AL NECESSARY MOUNTING HARDWARE AND ACCESSORIES FOR A COMPLETE INSTALLATION OF FIXTURE(S) IN THE SPACE. COORDINATE ALL INSTALLATION REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. 2. THE FIRST LISTED FIXTURE PRODUCT IN THE APPROVED MANUFACTURER'S COLUMN WITH A FULL PRODUCT NUMBER FOR EACH FIXTURE TYPE ISTHE BASIS OF DESIGN. ADDITIONAL APPROVED PRODUCT SERIES LISTED MUST MEET ALL THE CHARACTERISTICS LISTED AS THE BASIS OF DESIGN FIXTURE. FINAL PRODUCT APPROVAL WILL BE PROVIDED DURING THE SUBMITTAL PROCESS.

MOUNTING TYPE ABBREVIATIONS:

P PENDANT R RECESSED

S SURFACE W WALL

NOTES:

LOW VOLTAGE LIGHTING DEVICE SCHEDULE

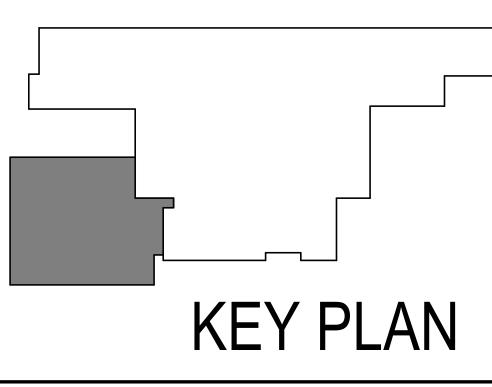
PLAN SYMBOL	MOUNTING TYPE	MANUFACTURER	MODEL	NOTES
L	WALL	nLIGHT	nPODMA SERIES	LOW VOLTAGE WALL CONTROLLER, REFER TO LIGHTING SEQUENCE OF OPERATIONS SCHEDULE AND LIGHTING PLAN SHEETS
VS OS	WALL	nLIGHT	nWSX SERIES	DUAL TECHNOLOGY MANUAL WALL SWITCH AND OCCUPANCY/VACANCY SENSOR
VS OS	CEILING	nLIGHT	nCM PDT SERIES	DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY/VACANCY SENSOR
DS	CEILING	nLIGHT	nCM ADCX SERIES	DAYLIGHT SENSOR

1. ACUITY ILIGHT LIGHTING CONTROLS IS THE BASIS OF DESIGN, OTHER APPROVED LIGHTING CONTROLS INCLUDE WATTSTOPPER, HUBBELL, LUTRON, COOPER/GREENGATE, AND LEVITON. 2. CONTRACTOR SHALL PROVIDE ALL LIGHTING CONTROL PARTS AND PIECES FOR COMPLETE AMD COMPLIANT LIGHTING CONTROL SYSTEM MEETS THE LIGHTING SEQUENCE OF OPERATIONS AND ENERGY CODE REQUIREMENTS.

DISCONNECTS FOR THE MECHANICAL EQUIPMENT. 5. REFER TO ELECTRICAL KITCHEN EQUIPMENT SCHEDULE FOR ADDITIONAL PROJECT

EQUIPMENT REQUIREMENTS.

INSTALLER BEFORE INSTALLING FEEDERS. NON-STANDARD ITEMS, TIMERS, METERS, INTERLOCKS, ETC.





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		Location: KINDER STOR Supply From: MSB Mounting: Surface Enclosure: Type 1	AGE 0	43					Volts: Phases: Wires:		Wye						A.I.C. Rating: 10KAIC Mains Type: MCB Bus Amps: 225 A MCB Rating: 225 A		
CB Info	СКТ			Trip		es	A		I	3		С	Pole			Amps		скт	
	1	CUSTODIAL AND TABLE STG. RECEPTS.		20 A			900 VA	360 VA	000 \/A	700 \/A					20 A		CAFETERIA RECEPTS.	2	4
	<u>3</u> 5	KINDER STORAGE RECEPTS. CORRIDOR RECEPTS.	7.5 A 6 A	20 A 20 A		+			900 VA	720 VA	720 \/Δ	540 VA			20 A 20 A		CAFETERIA RECEPTS. CAFETERIA RECEPTS.	4	+
	7	CAFETERIA RECEPTS.	3 A	20 A		+	360 VA	180 VA			120 05	<u>040 vn</u>					BATHROOM CIRCUIT	8	+
	9	BOYS RESTROOM RECEPTS.	3 A	20 A		1	000	100	360 VA	180 VA			1				BATHROOM CIRCUIT	10	+
	11	GIRLS RESTROOM RECEPTS.	3 A	20 A	1						360 VA	900 VA	1	2	20 A	7.5 A	ART STG. ADND KILN RECEPTS.	12	1
		ART ROOM RECEPTS.	6 A	20 A			720 VA	720 VA					1		20 A		TEACHERS LOUNGE RECEPTS.	14	
		ART ROOM RECEPTS.		20 A		_			540 VA	360 VA	= 10 \ /A	0001/4	1				TEACHERS LOUNGE RECEPTS.	16	_
	17	ART ROOM RECEPTS.	4.5 A			4	900 VA	2001/4			540 VA	900 VA					REFRIGERATOR	18	_
G	<u>19</u> 21	REFRIGERATOR TEACHERS LOUNGE RECEPTS.	7.5 A 4.5 A			+	900 VA	360 VA	540 \/A	360 VA					20 A 20 A		IT RACK POS STATION	20	_
		IT RACK	4.5 A	20 A		+			540 VA	300 VA	360 VA	1000 VA					PRINTER	22	_
		DRINKING FOUNTAIN	1.5 A	20 A		1	180 VA	1000 VA			000 1/1	1000 1/1	1				POWER UNISEX TOILET T13	26	_
		DRINKING FOUNTAIN	1.5 A							1513 VA			1		20 A		LIGHTING ART 040	28	_
		LIGHTING CAFETERIA COMMONS 038	8 A	20 A							960 VA	325 VA	1		20 A		EXTERIOR LIGHTING	30	
		POWER	3 A	20 A		4	360 VA	1015 VA					1				CAFETERIA LIGHTING	32	
	33	CAFETERIA LIGHTING	0.04	20 A		-			5 VA	180 VA	022.1/4	2001/4					FIRE DOOR	34	
	35 37	LIGHTING DRINKING FOUNTAIN	6.94 1.5 A	15 A 20 A		-	190 \/A	4992 VA			833 VA	360 VA		4	20 A	3 A	TEACHERS LOUNGE RECEPTS.	36 38	
	39	EF-038A	0 A	15 A		+	100 VA	4992 VA		4992 VA			2	5	50 A	48 A	KILN	40	
		RECEPTS ART 040	3 A	20 A		+				4552 VA	360 VA	0 VA	1	12	20 A		SPARE	40	
	43	ROOFTOP RECEPTS.	4.5 A				540 VA	0 VA					1		20 A		SPARE	44	_
	45	ROOFTOP RECEPTS.	7.5 A	20 A	1				900 VA	0 VA			1		20 A		SPARE	46	
	47											0 VA	1		20 A		SPARE	48	
	49	SPARE		20 A		_	0 VA	0 VA	0.) (A	0.) (A					20 A		SPARE	50	
	51 53	SPARE SPARE		20 A 20 A		_			0 VA	0 VA	0 VA	0 VA			20 A 20 A		SPARE SPARE	52 54	
	 55	SPARE		20 A		+	0 VA	0 VA			UVA	UVA			20 A		SPARE	56	
		SPARE		20 A		-	0 17	0 17	0 VA	0 VA					20 A		SPARE	58	
		SPARE		20 A		1				• • • •	0 VA	0 VA	1		20 A		SPARE	60	
		•		Tota	Loa	ıd:	1276	7 VA	1173	O VA	815	58 VA			•			•	
				Tot		Ī	111 A		102 A		68 A		1						
CIRCUIT	BREAM	KER INFORMATION LEGEND:											ABE	BRE\	/IATI0	ONS:			
G = GRO	UND FA	AULT SENSING											Імсе	3 = 1	ΛΑΙΝ	CIRCL	JIT BREAKER		
S = SHUN		0											CB :	= CI	RCUI	T BRE	AKER		
L = LOCK													-	-	IRCU				
		INTERRUPTER												-					
Load Cla				Con	necte	ed l	oad	De	mand Fac	tor	Fstir	nated Den	nand				Panel Totals		_
HVAC	comou			••••	0 V			20.	0.00%			0 VA							
Other					238 \				100.00%			238 VA					Total Conn. Load: 32655 VA		
Power					28004				100.00%			28004 VA					Total Est. Demand: 32655 VA		
					<u>4413</u>				100.00%			4413 VA		_			Total Conn.: 91 A		
Lighting			_		44 13	VA			100.00%			44 13 VA					Total Est. Demand: 91 A		_
			_														Total Est. Demand: 91 A		_

8 9 10 11 12 13 ¹⁴ 15 16 17 18

	I	Branch Panel: K Location: KITCHEN 039 Supply From: Mounting: Surface Enclosure: Type 1						Volts: Phases: Wires:		Wye					A.I.C. Rating: 10KAIC Mains Type: MCB Bus Amps: 400 A MCB Rating: 400 A			
CB Info	СКТ	Circuit Description	Amps	Trip	Poles	A	L .		В		С	Poles	Trip	Amps	Circuit Desc	ription	СКТ	CB In
G G	1	KITCHEN RECEPTS. CONVENIENCE RECEPTS.	4.5 A 3 A		1	540 VA	1800 VA		600 VA			1	20 A	15 A	MICROWAVE		2	
-	3 5							360 VA	600 VA	1189 VA	600 VA	3	20 A	5 A	EXHAUST HOOD		4	-
G	7	DISPOSER WITH CONTROLS	11.4	20 A	2	1189 VA	600 VA										8	1
	9 11	EXHAUST HOOD	5 A	20 A	3			600 VA	576 VA	600 VA	576 VA	1	20 A 20 A		MOBILE COMBI OVEN MOBILE COMBI OVEN		10 12	G/S G/S
	13			20 A		600 VA	240 VA			000 VA	570 VA	1			FIRS SUPPRESION SYS	STEM	12	0/3
S	15	MOBILE COMBI OVEN	4.8 A		1			576 VA	876 VA			1			BLAST CHILLER/FREEZ		16	
S G	17	MOBILE COMBI OVEN CONVENIENCE RECEPTACLE	4.8 A		1	190.1/4	2400 VA			576 VA	2400 VA	2	30 A	23.0	MOBILE HOT SERVING	COUNTER	18 20	-
G	19 21	MOBILE MILK COOLER	1.5 A 7.6 A	20 A 20 A	1	100 VA	2400 VA		1272 VA			1	20 A		MIXER (20 QT.)		20	G
	23		57.3							6881 VA	180 VA	1	20 A	1.5 A	KITCHEN RECEPT.		24	
G	25	DISHWASHER WITH BOOST HEATER	A	80 A	3	6881 VA		0004.1/4				1	20 A	3.5 A	MOBILE REFRIDGE.CO	D PAN COUNTER	26	
	27 29							10881 VA	7085 VA		7085 VA	3	80 A	59 A	KETTLE (40 GAL.)		28 30	G/S
G/S	31	KETTLE (40 GAL.)	59 A	80 A	3	7085 VA	7085 VA				1000 111	Ŭ	0071	007			32	- 0,0
	33							7085 VA	1920 VA		0001/4	1	20 A	16 A	WALK-IN COOLER/FREI	EZER ASSEMBLY	34	
	35 37	WALK-IN COOLER/FREEZER ASSEMBLY UNIT COOLER (COOLER)	16 A 0.6 A	20 A	1	72 VA	988 VA			1920 VA	988 VA	2	20 A	9.5 A	UNIT COOLER (FREEZE	ER)	36 38	-
G	39	MOBILE HOT HOLD CAB/PROOF		20 A	1	12 VA	300 VA	1920 VA	793 VA								40	
G	41	MOBILE HOT HOLD CAB/PROOF	16 A	20 A	1					1920 VA	793 VA	3	20 A	6.6 A	DISPOSER WITH CONT	ROLS	42	G
G	43	MOBILE HEATED HOLD CABINET	11.2	20 A	1	1344 VA	793 VA	40.44.1/4	0051/4								44	<u> </u>
G	45 47	MOBILE HEATED HOLD CABINET	11.2	20 A				1344 VA	625 VA	1165 VA	625 VA	3	20 4	52A	COOLER REMOTE COM	IPRESSOR	46 48	-
	49	FREEZER REMOTE COMPRESSOR	9.7 A	20 A	3	1165 VA	625 VA				020 1/1	ľ	2077	0.27			50	1
	51	1						1165 VA	655 VA			1	20 A	5.46	KITCHEN LIGHTING		52	
G	53 55	WASHER FACP		20 A 20 A	1	1920 VA	400.1/4			180 VA	400 VA	2	20 A	3.85	DRYER		54 56	G
	55 57	SPARE	10 A	20 A		1920 VA	400 VA	0 VA	540 VA			1	20 A	4.5 A	ROLL UP DOOR		58	
	59	SPARE		20 A	1			• • • •		0 VA	540 VA	1	20 A	4.5 A	ROLL UP DOOR		60	
	61	SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE		62	
	63 65	SPARE SPARE		20 A 20 A	1			0 VA	0 VA	0 VA	0 VA	1	20 A 20 A		SPARE SPARE		64 66	<u> </u>
	67	SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE		68	
	69	SPARE		20 A	1	-	-	0 VA	0 VA			1	20 A		SPARE		70	
	71	SPARE		20 A	1	0.1/4	0.1/1			0 VA	0 VA	1	20 A		SPARE		72	<u> </u>
	73 75	SPARE SPARE		20 A 20 A	1	0 VA	0 VA	0 VA	0 VA			1	20 A 20 A		SPARE SPARE		74 76	
	77	SPARE		20 A						0 VA	0 VA	1	20 A		SPARE		78	
	79	SPARE		20 A	1	0 VA	0 VA					1	20 A		SPARE		80	
	81	SPARE		20 A	1			0 VA	0 VA	0.) (A	0.)/0	1	20 A		SPARE		82	<u> </u>
	83	SPARE		20 A	Load:	3632	7 \/A	3579	1 35 VA	0 VA	0 VA 03 VA	1	20 A		SPARE		84	
				Tot	Louu.	303 A		298 A		298 A								
CIRCUIT	BREAK	KER INFORMATION LEGEND:										ABBR	EVIAT	ONS:				
G = GRO	UND FA	AULT SENSING										МСВ	= MAIN	CIRCL	JIT BREAKER			
S = SHUI	NT TRIF	5										CB =	CIRCU	IT BRE	AKER			
_ = LOCł	(OUT											CKT =	= CIRC	JIT				
		INTERRUPTER					_											
_oad Cla	ssificat	tion		Conr	nected	Load	De	mand Fa	ctor	Estir	nated Dem	nand			Panel	Totals		
IVAC					5369 V			100.00%			5369 VA							
		nt - Non-Dwelling Unit			7907 V			65.00%			31140 VA				Total Conn. Load:			
Receptac	le				360 VA			100.00%			360 VA				Total Est. Demand:			
Power					1604 V			100.00%			51604 VA		_		Total Conn.:			
ighting					655 VA	1		100.00%			655 VA				Total Est. Demand:	247 A		
			1				1			i i			1			1		

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		Location: KINDEI Supply From: MSB Mounting: Surface Enclosure: Type 1		43				Volts: Phases: Wires:		Wye					A.I.C. Rating: 10KAIC Mains Type: MCB Bus Amps: 400 A MCB Rating: 400 A				
CB Info	СКТ	Circuit Description	Amps	Trip	Poles				В		с	Poles	Trip	Amps	Circuit Des	cription C	СКТ	CB Inf	
	1 3	CU-40A	12 A	20 A	3	1441 VA	1441 VA		1441 VA			3	20 Δ	12 A	CU-40B		2 4		
	5		127	2077	Ŭ				1771 071		1441 VA		2077	127			6		
	7 9	CU-C10	18 A	30 A	3	2162 VA	2642 VA		2642 VA			3	35 A	22 Δ	CU-39		8 10	-	
	11			50 7					2042 77		2642 VA		35 A	22 7	00-00		12		
	13	011.004	00.4	25.4		2642 VA	2642 VA		0040.1/4				05 A	00.4			14		
	15 17	CU-38A	22 A	35 A	3			2642 VA	2642 VA		2642 VA	3	35 A	22 A	CU-38B		16 18	•	
	19					2642 VA	2642 VA										20	<u> </u>	
	21 23	CU-38C	22 A	35 A	3			2642 VA	2642 VA		2642 VA	3	35 A	22 A	CU-38D		22 24	-	
	23 25					2642 VA	2642 VA			2042 VA	2042 VA						24 26	<u> </u>	
	27	CU-38E	22 A	35 A	3				2642 VA			3	35 A	22 A	CU-41		28	1	
	29 31					2496 VA	1110 \/A			2642 VA	2642 VA	1	15 A	12 /	F-38B		30 32		
	33	-CU-42	24 A	30 A	2	2490 VA	1440 VA		1440 VA			1	20 A		F-38A		32 34		
	35	F-38E		15 A	1						1440 VA	1	15 A	12 A	F-38C		36		
	37 39	F-38D F-39	12 A 12 A	15 A 15 A	1	1440 VA	1440 VA		1356 VA			1	15 A	12 A	F-41 F-40B		38 40		
		F-C10	12 A		1			1440 VA	1550 VA		1356 VA	1			F-40A		40 42	<u> </u>	
	43	EF-T12	4.5 A	15 A	1	540 VA	790 VA					2			EWH-V02		44		
		EF-39B EF-39A	5.58	15 A 15 A	1			670 VA	790 VA	670.\/A	700.\/A	2	10 /	1.0 A			46 48	 	
	47 49	SPARE	5.58	20 A	1	0 VA	790 VA			670 VA	790 VA	2	15 A	7.6 A	EWH-V05		40 50	1	
	51	GWH-1	5 A	20 A	1			600 VA	0 VA			1	20 A		SPARE		52		
	53	RCP-1	10.4	20 A	1		0 VA			1254 VA	0 VA	1	20 A 20 A		SPARE SPARE		54 56	 	
	55 57	SPACE SPACE			1		UVA		0 VA				20 A 20 A		SPARE		58		
		SPACE			1						0 VA		20 A		SPARE		60		
					Load:		4 VA		BO VA		86 VA								
				Tot		271 A		270 A		264 A									
CIRCUIT BREAKER INFORMATION LEGEND:												EVIAT							
G = GROUND FAULT SENSING																			
S = SHUNT TRIP L = LOCK OUT													CB = CIRCUIT BREAKER CKT = CIRCUIT						
		INTERRUPTER										UKI -		UT					
Load Classification Connected Loa						Load	Demand Factor Estimated De					mand Panel Totals							
Appliance - Dwelling Unit				1254 VA				100.00%			1254 VA								
HVAC				8	0645 V	Ά		100.00%			80645 VA				Total Conn. Load:	96483 VA			
Other				14832 VA				100.00%			14832 VA			Total Est. Demand: 96483 VA					
															Total Conn.:				
													_		Total Est. Demand:	268 A			
Notes:							<u> </u>			<u> </u>									

