# Addition to Thanksgiving Elementary School JOHNSTON COUNTY PUBLIC SCHOOLS

Lynch Road
Johnston County / North Carolina





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# **ABBREVIATIONS**

BLDG BUILDING CI CAST IRON MIN MINIMUM CPT CARPET MISC MISCELLANEOUS CB CATCH BASIN NOM NOMINAL CLG CEILING N NORTH CT CEILING TILE NIC NOT IN CONTRACT CB CHALKBOARD NTS NOT TO SCALE CJ CONSTRUCTION JOINT OC ON CENTER CONC CONCRETE OPG OPENING CMU CONCRETE MASONRY UNIT OPP OPPOSITE CG CORNER GUARD PC PLUMBING CONTRACTOR CMP CORRUGATED METAL PIPE PLAS PLASTER CONT. CONTINUOUS PL PLATE C & R CURTAIN & ROD PT PRESSURE TREATED C & T CURTAIN & TRACK R RADIUS DIA DIAMETER REF REFERENCE DIM DIMENSION RENIF REINFORCE CONCRETE PI DWR DRAWER REQ'D REQUIRED	AFF	ABOVE FINISH FLOOR	INV	INVERT
BY BACK TO BACK (CURB)  BY MAX MAXIMUM  BRG BEARING  BO BOARD  BO BOARD  BC BICK COURSE  MC MECHANICAL CONTRACTOR  BLOC BUILDING  MT METAL THRESHOLD  CI CAST IRON  MIN MINIMUM  CPT CARPET  MISC MISCELLANEOUS  CLG CEILING TILE  CLG CEILING TILE  CLG CEILING TILE  CLG CONSTRUCTION JOINT  CONC CONCRETE  CMU CONCRETE  CMU CONCRETE MASONRY UNIT  COMP CORRUGATED METAL PIPE  COT CONTRUCTION OF PC  CONC CONCRETE  COMP CORRUGATED METAL PIPE  CLOC CONCRETE MASONRY UNIT  CLE CONTRUCTION OF PC  CONT	L	ANGLE	JT	JOINT
B/B BACK TO BACK (CURB)  BRG BEARING MB MARKER BOARD  BD BOARD MET METAL  BC BRICK COURSE MC MECHANICAL CONTRACTOR  BLOC BUILDING MT METAL THRESHOLD  CI CAST IRON MIN MINIMUM  CPT CARPET MISC MISCELLANEOUS  CB CATCH BASIN NOM NOMINAL  CLG CEILING N NORTH  CT CEILING ILLE NIC NOT IN CONTRACT  CB CHALKBOARD N'S NOT TO SCALE  CJ CONSTRUCTION JOINT OC ON CENTER  CG CONCETE MASONRY UNIT OPP OPPOSITE  CG CORNER GUARD PC PLUMBING CONTRACTOR  CMU CONCRETE MASONRY UNIT OPP OPPOSITE  CG CORNER GUARD PC PLUMBING CONTRACTOR  CMU CONCRETE METAL PIPE PLAS PLASTER  CONT. CONTINUOUS PL PLATE  CONT. CONTINUOUS PL PLATE  CONT. CONTINUOUS PL PLATE  CONT. CURTAIN & TRACK R RADIUS  DIA DIAMETER REF REFERENCE  DIM DIMENSION RENIF REINFORCED  DS DOWNSPOUT RCP REINFORCE CONCRETE PL  DWR DRAWER RCC'D REOURED  EA EACH RFS RUBBER FASTENING STRIL  EC ELECTRICAL CONTRACTOR RI RICIDI INSULATION  EIFS EXTERIOR INSULATION & FIN SYSTEM R/W RIGHT OF WAY  ELECT ELECTRICAL CONTRACTOR  EWC ELECTRICAL CONTRACTOR RI RICIDI INSULATION  EIFS EXTERIOR INSULATION & FIN SYSTEM R/W RIGHT OF WAY  ELECT ELECTRICAL CONTRACTOR RI RICIDI INSULATION  EWF ELECTRICAL CONTRACTOR RI RICIDI INSULATION  EWC ELECTRICAL CONTRACTOR RI RICIDI INSULATION  EWC ELECTRICAL CONTRACTOR RI RICIDI INSULATION  EWF ELECTRICAL SC SITE CONTRACTOR  EWC ELECTRICAL SC SITE CONTRACTOR  EXIST EXISTING TO REMAIN SCHED SCHEDULED  EXP EXPOSED, EXPANSION SHIG SHAIL LEADER  EXISTING TO REMAIN SCHED SPEC SPECIFIED  FIN FINSH  FY FACE TO FACE (CURB) SPEC SPECIFIED  FIN FINSH  FY FACE TO FACE (CURB) SPEC SPECIFIED  FIN FINSH  FY FACE TO FACE (CURB) SPEC SPECIFIED  FIN FINSH  FY FACE TO FACE (CURB) SPEC SPECIFIED  FIN FINSH  FY FACE TO FACE (CURB) SPEC SPECIFIED  FIN FINSH  FY FACE TO FACE (CURB) SPEC SPECIFIED  FIN FINSH  FY FACE TO FACE (CURB) SPEC SPECIFIED  FIN FINSH  FY FACE TO FACE (CURB) SPEC SPECIFIED  FIN FINSH  FOR THE HOSE CABINET SUSPENDED  FIN FINSH  FOR FREEXINGUISHER SHEET ROOFING UN UNLESS OTHERWISE NOTE  FY FACE TO FACE (CURB) SPEC SPECIFICATION SHEE  FOR THE FACE TO FACE (CURB)	AB	ANCHOR BOLT	LAV	LAVATORY
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CG CORNER GUARD PC PLUMBING CONTRACTOR CMP CORRUGATED METAL PIPE PLAS PLASTER CONT. CONTINUOUS PL PLATE C & R CURTAIN & ROD PT PRESSURE TREATED C & R CURTAIN & TRACK R R RADIUS DIA DIAMETER REF REFERENCE DIM DIMENSION RENIF REINFORCE CONCRETE PI DWR DRAWER REQ'D REQUIRED EACH RFS RUBBER FASTENING STRII EC ELECTRICAL CONTRACTOR RI RIGID INSULATION EIFS EXTERIOR INSULATION & FIN SYSTEM R/W RIGHT OF WAY ELECT ELECTRICAL RD ROOF DRAIN EWC ELECTRIC WATER COOLER RDL ROOF DRAIN LEADER ELEV ELEVATION RGH ROUGH EXIST EXISTING SH SHELF EXYENDED EXPANSION SHTG SHEATHING EXP EXPOSED, EXPANSION SHTG SHEATHING EJ EXPANSION JOINT SIM SIMILAR F/F FACE TO FACE (CURB) SPEC SPECIFIED FIN FINISH SPECS SPECIFICATIONS FE FIRE EXTINGUISHER CABINET IB TACKBOARD FTG FOOTING TYP TYPICAL FOR UNN UNLESS OTHERWISE NOTE FTG FOOTING TYP TYPICAL GB GYPSUM WALLBOARD VB VAPOR BARRIER GG GENERAL CONTRACTOR VERT VERTICAL HOR HORIZONTAL IC INTEGRATED COMMUNICATIONS WWF WELDED WIRE FABRIC	CONC	CONCRETE	OPG	OPENING
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CONT. CONTINUOUS  C & R CURTAIN & ROD  C & T CURTAIN & TRACK  DIA DIAMETER  DIM DIMENSION  DS DOWNSPOUT  EA EACH  EA EACH  EC ELECTRICAL CONTRACTOR  EIFS EXTERIOR INSULATION & FIN SYSTEM  EWC ELECTRIC WATER COOLER  ELEC ELECTRIC WATER COOLER  EQ EQAUL  ETR EXISTING  EQ EQAUL  ETR EXISTING  EXIST EXISTING  EXIST EXISTING  EXIST EXISTING  EXIST EXISTING  EXIST EXISTING  EXIST EXISTING  EXP EXPOSED, EXPANSION  EFF FACE TO FACE (CURB)  FIN FINISH  FEC FIRE EXTINGUISHER  FIC FIRE HOSE CABINET  FIC FOOTING  FO FILOR DRAIN  EGG GENERAL CONTRACTOR  TYP TYPICAL  FOR TYPICAL  EXIST EXISTING  FER FIRE EXTINGUISHER CABINET  FOR FOOTING  FOR FILOR DRAIN  EXPOSED THE HOSE CABINET  FIN FINISH  FIN FINISH  FIN FOOTING  FOR TYPICAL  FOR TYP	CG	CORNER GUARD	PC	PLUMBING CONTRACTOR
C & R CURTAIN & ROD PT PRESSURE TREATED  C & T CURTAIN & TRACK R RADIUS  DIA DIAMETER REF REFERENCE  DIM DIMENSION RENIF REINFORCED  DS DOWNSPOUT RCP REINFORCE CONCRETE PI  DWR DRAWER REQ'D REQUIRED  EA EACH RFS RUBBER FASTENING STRII  EC ELECTRICAL CONTRACTOR RI RIGID INSULATION  EIFS EXTERIOR INSULATION & FIN SYSTEM R/W RIGHT OF WAY  ELECT ELECTRICAL RD ROOF DRAIN LEADER  EWC ELECTRIC WATER COOLER RDL ROOF DRAIN LEADER  ELECY ELECVATION RGH ROUGH  EQ EQAUL SC SITE CONTRACTOR  ETR EXISTING TO REMAIN SCHED SCHEDULED  EXIST EXISTING SH SHELF  EXP EXPOSED, EXPANSION SHTG SHEATHING  EJ EXPANSION JOINT SIM SIMILAR  F/F FACE TO FACE (CURB) SPEC SPECIFIED  FIN FINISH SPECS SPECIFIED  FIN FINISH SPECS SPECIFIED  FIN FINISH SPECS SPECIFICATIONS  FE FIRE EXTINGUISHER STD STANDARD  FEC FIRE EXTINGUISHER STD STANDARD  FFC FIRE EXTINGUISHER SUSP SUSPENDED  FHC FIRE HOSE CABINET TB TACKBOARD  FFG FOOTING TYP TYPICAL  FOOTING TYP TYPICAL  FOOTING TYP TYPICAL CONTROL JOINT  FL FLOOR UON UNLESS OTHERWISE NOTE  FSR FLEXIBLE SHEET ROOFING UR URINAL  GB GYPSUM WALLBOARD VB VAPOR BARRIER  GC GENERAL CONTRACTOR VERT VERTICAL  HM HOLLOW METAL VCT VINYL COMPOSITION TILE  HOR HORIZONTAL WC WATER CLOSET	CMP	CORRUGATED METAL PIPE	PLAS	PLASTER
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DIM DIMENSION RENIF REINFORCED  DS DOWNSPOUT RCP REINFORCE CONCRETE PI  DWR DRAWER REQ'D REQUIRED  EA EACH RFS RUBBER FASTENING STRII  EC ELECTRICAL CONTRACTOR RI RIGID INSULATION  EIFS EXTERIOR INSULATION & FIN SYSTEM R/W RIGHT OF WAY  ELECT ELECTRICAL RD ROOF DRAIN  EWC ELECTRIC WATER COOLER RDL ROOF DRAIN LEADER  ELEV ELEVATION RGH ROUGH  EQ EQAUL SC SITE CONTRACTOR  ETR EXISTING SH SHELF  EXP EXPOSED, EXPANSION SHTG SHEATHING  EJ EXPANSION JOINT SIM SIMILAR  F/F FACE TO FACE (CURB) SPEC SPECIFICATIONS  FE FIRE EXTINGUISHER STD STANDARD  FEC FIRE EXTINGUISHER STD STANDARD  FEC FIRE EXTINGUISHER STD STANDARD  FEC FIRE EXTINGUISHER CABINET SUSP SUSPENDED  FHO FLOOR DRAIN TJC TYPICAL  FD FLOOR DRAIN TJC TYPICAL  FD FLOOR DRAIN TJC TYPICAL  FR FOR UON UNLESS OTHERWISE NOTE  FSR FLEXIBLE SHEET ROOFING UR URINAL  GB GYPSUM WALLBOARD VB VAPOR BARRIER  GC GENERAL CONTRACTOR VERT VERTICAL  HM HOLLOW METAL VCT VINYL COMPOSITION TILE  HOR HORIZONTAL  IC INTEGRATED COMMUNICATIONS WWF WELDED WIRE FABRIC	C & T	CURTAIN & TRACK	R	RADIUS
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F/F FACE TO FACE (CURB)  FIN FINISH  SPECS SPECIFICATIONS  FE FIRE EXTINGUISHER  FEC FIRE EXTINGUISHER CABINET  FHC FIRE HOSE CABINET  FTG FOOTING  FD FLOOR DRAIN  FL FLOOR  FSR FLEXIBLE SHEET ROOFING  GB GYPSUM WALLBOARD  GC GENERAL CONTRACTOR  HM HOLLOW METAL  HOR HORIZONTAL  IC INTEGRATED COMMUNICATIONS  SPEC SPECIFIED  SPECS SPECIFICATIONS  FLOOR SUSPENDED  TYP TYPICAL  TYPICAL CONTROL JOINT  TYP TYPICAL  TYPI		•		
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HM HOLLOW METAL VCT VINYL COMPOSITION TILE HOR HORIZONTAL WC WATER CLOSET IC INTEGRATED COMMUNICATIONS WWF WELDED WIRE FABRIC				
HOR HORIZONTAL WC WATER CLOSET IC INTEGRATED COMMUNICATIONS WWF WELDED WIRE FABRIC				
IC INTEGRATED COMMUNICATIONS WWF WELDED WIRE FABRIC				
INSUL INSULATION W/ WITH				
	INSUL	INSULATION	W/	WIIH

# DRAWING SYMBOLS

DRAWING IDENTIFICATION MARKERS

201.1

L DRAWING NUMBER SHEET NUMBER



SECTION MARKER



ELEVATION (DRAWINGS)



DOOR MARKER/NUMBER

----- HIDDEN LINE OR ABSTRACT LINE ----- LINE ABOVE

----- CENTERLINE

# MATERIAL SYMBOLS

EARTH

MORTAR OR GROUT

CONCRETE

CONCRETE MASONRY UNIT

ROUGH WOOD (CONTINUOUS)

ROUGH WOOD (INTERMITTENT)

FINISH WOOD

PLYWOOD

BATT OR BLOWN INSULATION

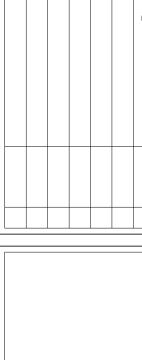
RIGID INSULATION

METAL STUD / GYPBOARD WALL

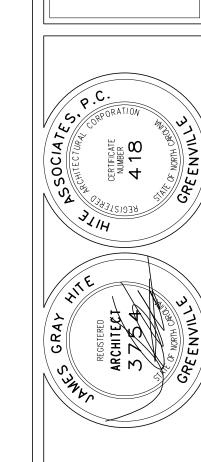
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School

7 February 2025

Change of Use

19,408 (Does not include Equipment Platform)

CONSTRUCTED 2020 ORIGINAL USE Educational

**EXISTING**: Prescriptive

Repair

Chapter 14

RENOVATED NA CURRENT USE Educational PROPOSED USE Educational

Alteration Level I

X Alteration Level II

Alteration Level III

OCCUPANCY CATEGORY (TABLE 1604.5): CURRENT \_\_\_\_NA\_\_\_ PROPOSED \_\_\_\_\_ BUILDING DATA Sprinklers: X Yes Partial X NFPA 13 NFPA 13R NFPA 13D Ground Floor

Equipment Platform No X Yes Partial NFPA 13 NFPA 13R NFPA 13D Yes Class I II III Wet Dry Standpipes: Flood Hazard Area: 🗶 No 🗌 Yes Feet: 22' Number of Stories: 1 Building Height:

Special Inspections Required: No X Yes

13,358

This Separation is not exempt as a Non-Separated Use (see exceptions)

Special Uses (Chapter 4 - List code Sections): NA

Special Provisions (Chapter 5 - List code Sections): NA

Gross Building Area:

Existing (SQ FT)	New (SQ FT)	Sub-Total	
2,236	884	3,120	
13,358	6,050	19,408	
	2,236	2,236 884	2,236 884 3,120

ALLOWABLE	AREA

mary Occupancy:	
Assembly	
	Business
	X Educational
Factory	F-1 Moderate F-2 Low
Hazardous	H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
Institutional	☐ I-1 ☐ I-2 ☐ I-3 ☐ I-4
	I-3 Condition 1 2 3 4 5
	Mercantile Mercantile
Residential	R-1 R-2 R-3 R-4
Storage	S-1 Moderate S-2 Low High-Piled
Parking Garage	Open Enclosed Repair
	Utility and Miscellaneous
cessory Occupancy	Classification(s):

Mixed Occupancy: X No Yes Separation:

X Non-Separated Use (508.3) The required type of construction of the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

Separated Use (508.4) - See below for area calculations For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1. Actual Area of Occupancy B Actual Area of Occupancy A

	0		0		0 < 1.00
	0	· ·	0		0 \( \) 1.00
STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA <sub>4</sub>	(C) AREA FOR OPEN SPACE INCREASE 1,5	(D) ALLOWABLE AREA OR UNLIMITED 2.
1	Educational	34,467	58,000	0	58,000

Allowable Area of Occupancy A Allowable Area of Occupancy B

1 Frontage increases from Section 506.2 are computed thus:

a. Perimeter which fronts a public way or open space having 20 feet minimum width = 498'-5" (F)

b. TotalBuilding Perimeter = 991'-10'' (P) c. Ratio (F/P) = 0.502 (F/P)

d. W= Minimum width of public way = 30 (W)

2 Unlimited area applicable under conditions of Section 507.

3 Maximum Building Area = total number of stories in the building x D (506.2)

4 The maximum area of parking garages must comply with 406.5.4. The maximum area of air traffic control towers must comply with 412.3.1.

5 Frontage increase is based on the unsprinkled area value in Table 506.2.

#### ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	Feet 75	22	
Building Height in Stories (Table 504.4)	Stories 3	1	

### FIRE PROTECTION REQUIREMENTS

BUILDING	FIRE	ſ	RATING	DETAIL NO.	DESIGN NO. FOR RATED ASSEMBLY DESIGN NO. FOR RATED PENETRATION	DESIGN NO	DESIGN
ELEMENT	SEPARATION DISTANCE (FEET)	REQ'D	PROVIDED (W/ * REDUCTION)	AND SHEET NO.		NO. FOR RATED JOIST	
Structural frame, including columns, girders, trusses		0	NA	NA	NA	NA	NA
Bearing walls							
Exterior							
North	NA	NA	NA	NA	NA	NA	NA
East	NA	NA	NA	NA	NA	NA	NA
West	NA	NA	NA	NA	NA	NA	NA
South	NA	NA	NA	NA	NA	NA	NA
Interior	NA	NA	NA	NA	NA	NA	NA
Nonbearing walls and partitions Exterior							
North	20	0	NA	NA	NA	NA	NA
East	30	0	NA	NA	NA	NA	NA
West	> 20	0	NA	NA	NA	NA	NA
South	> 30	0	NA	NA	NA	NA	NA
Interior	NA	0	NA	NA	NA	NA	NA
Floor construction including support beams and joist		0	NA	NA	NA	NA	NA
Above Corridor		0	NA	NA	NA	NA	NA
Columns Supporting Floors							
Roof construction including support beams and joist		0	NA	NA	NA	NA	NA
Roof Ceiling Assembly		NA	NA	NA	NA	NA	NA
Columns Supporting Roof		NA	NA	NA	NA	NA	NA
Shafts - Exit		NA	NA	NA	NA	NA	NA
Shafts - Other		NA	NA	NA	NA	NA	NA
Corridor Separation		0	NA	NA	NA	NA	NA
Occupancy Separation		NA	NA	NA	NA	NA	NA
Party/Fire Wall Separation		NA	NA	NA	NA	NA	NA
Fire Barrier Separation		NA	NA	NA	NA	NA	NA
Smoke Partition		NA	NA	NA	NA	NA	NA
Tenant Separation		NA	NA	NA	NA	NA	NA
Incidental Use Separation		NA	NA	NA	NA	NA	NA

Indicate section number permitting reduction 706.4 Exception (a)

# PERCENTAGE OF WALL AREA CALCULATIONS

FIRE SEPARATION DISTANCE FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA	ACTUAL SHOWN ON PLANS
15-20	Unprotected, Sprinkled	No Limit*	NA
>30	Unprotected, Sprinkled	No Limit	NA

\* 705.8 Exception 2

# LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting:	No	<b>X</b> Yes
Exit Signs:	No	<b>X</b> Yes
Fire Alarm:	No	X Yes
Smoke Detection Systems:	No	X Yes
Carbon Monoxide Detesction:	No	X Yes

Life Safety Plan Sheet \*: \_\_LS-001

X Fire and/or smoke rated wall-locations (Chapter 7)

Assumed and real property line locations

Exterior wall opening area with respect to distance to assumed property lines (705.8)  $\overline{\mathbf{X}}$  Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)

X Occupant loads for each area X Exit access travel distances (1017)

Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))

Dead end lengths (1020.4)

X Clear exit widths for each exit door

Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3) X Actual occupant load for each exit door

A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation

X Location of doors with panic hardware (1010.1.10) Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)

Location of doors with electromagnetic egress locks (1010.1.9.9) X Location of doors equipped with hold-open devices

Location of emergency escape windows (1030)

 $\overline{\mathbf{X}}$  The square footage of each fire area (202)

☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5) Note any code exceptions or table notes that may have been utilized regarding the items above

#### ACCESSIBLE DWELLING UNITS (SECTION 1107)

LOT OR Parking area	LINITS	ACCESSIBLE UNITS PROVIDED	UNITS	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

#### ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL NO. OF PARKING SPACES		NO. OF ACCESSIBI	TOTAL NO.		
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPA	ACCESSIBLE PROVIDED	
			ACCESS AISEE	132" ACCESS AISLE		8' ACCESS AISLE
Main		142	5		1	6
TOTAL		142	5		1	6

## PLUMBING FIXTURE REQUIREMENTS

USE		WATERCLOSETS		URINALS LAVATORIES		SHOWERS/	DRINKING FOUNTAINS		
		MALE	FEMALE		MALE	FEMALE	TUBS	REGULAR	ACCESSIBLE
	NEW								
Student	EXISTING	7	10	3	5	5		3	3
	REQ'D	7	10	3	4	4		3	2
Staff	NEW								
	EXISTING	1×	1×	0	1×	1×		0	0
	REQ'D	1	1	0	1	1		0	0
	NEW								
	EXISTING								
	REQ'D								

# SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, SBCCI, ICC, etc., describe below) NC Department of Insurance

The following data shall be considered minimum and any special attribute required to meet the energy code shall

Performance (ASHRAE 90.1)

METAL DECK / RIGID INSULATION / BATT INSULATION / ACOUSTOCAL TILE Description of assembly U-Value of total assembly 0.032 R-Value of insulation NONE Skylights in each assembly

BRICK / AIR SPACE / RIGID INSULATION / 8" CMU 0.064 12.4 Openings (windows)

projection factor

U-Value of total assembly - 0.0667 R-Value of insulation - 13 c.i.

Floor over unconditioned space (each assembly) - NOT USED Description of assembly - 8" Block, foam filled cells, 2" c.i.

Description of assembly = 4" thick concrete slab U-Value of total assembly = 0.21

R-Value of insulation - N/A Horizontal/vertical requirement slab heated - NO

# **ENERGY SUMMARY**

ENERGY REQUIREMENTS:

also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs. annual energy cost for the proposed design.

X Prescriptive (Energy Code)

Method of Compliance: Performance (Energy Code) Prescriptive (ASHRAE 90.1)

# THERMAL ENVELOPE

Roof/ceiling Assembly (each assembly)

U-Value of skylight total square footage of skylights in each assembly N/A

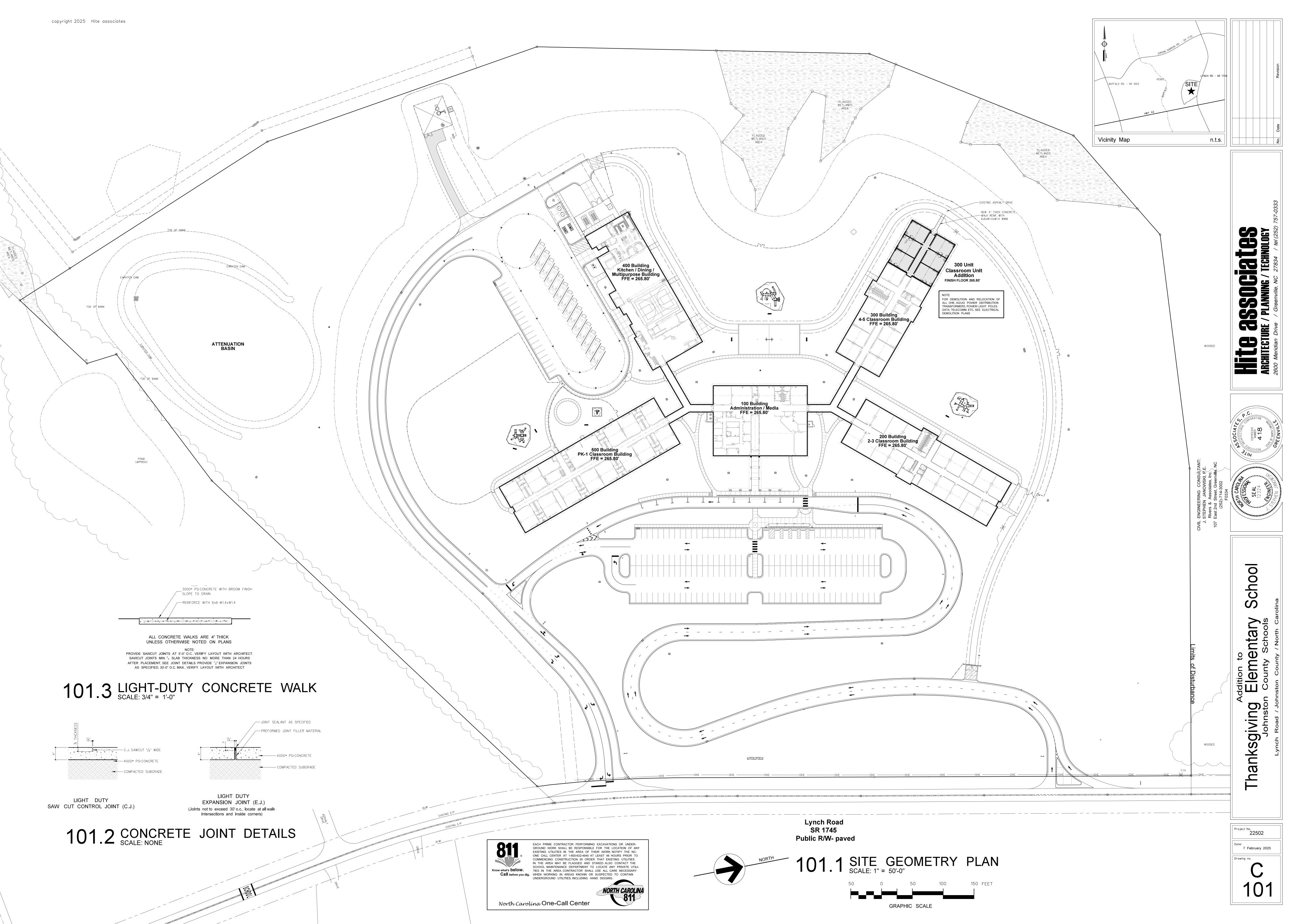
Exterior Walls (each assembly) Description of assembly U-Value of total assembly

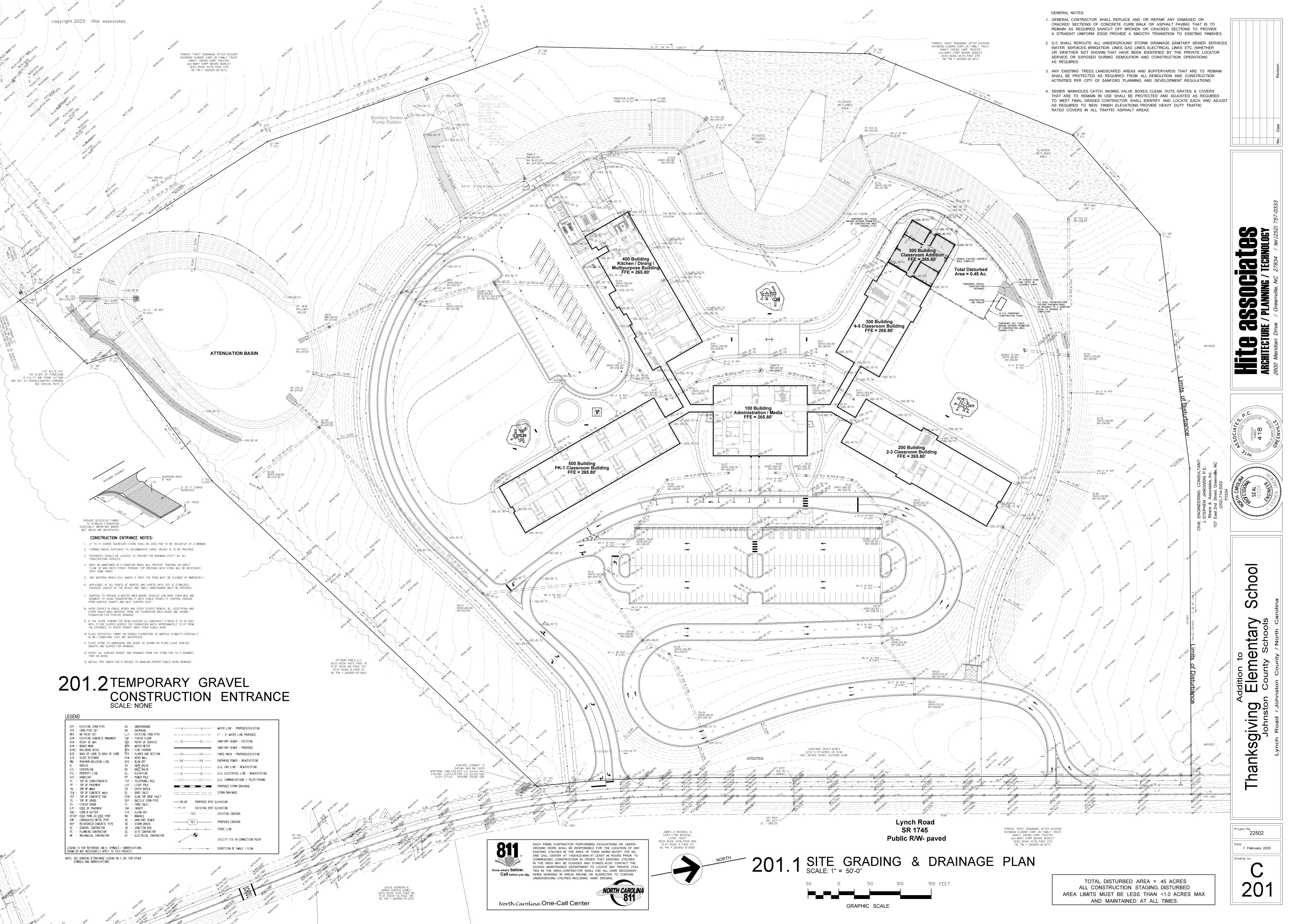
R-Value of insulation Openings (windows or doors with glazing) U-Value of total assembly 0.32 solar heat gain coefficient

N/A Door R-Values Walls below grade -Description of assembly - Block, foam filled cells, 2" c.i.

U-Value of total assembly - 0.11 R-Value of insulation - 7.5R Floor slab on grade

BCS 300





FE FIRE EXTINGUISHER (WALL MOUNTED)

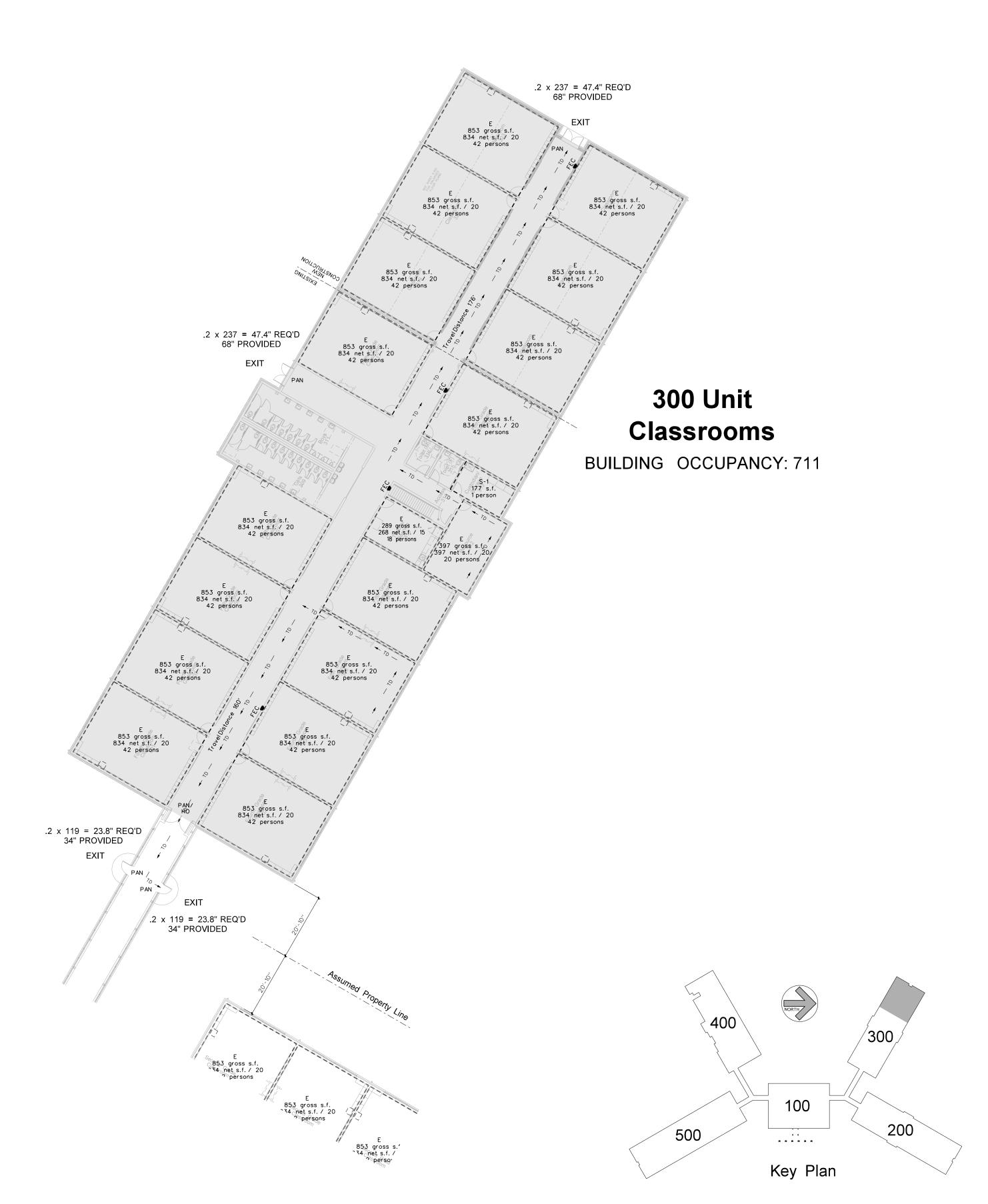
FEC FIRE EXTINGUISHER CABINET

PAN PANIC HARDWARE

HO HOLD OPEN

---- LIMIT OF AREA CALCULATIONS

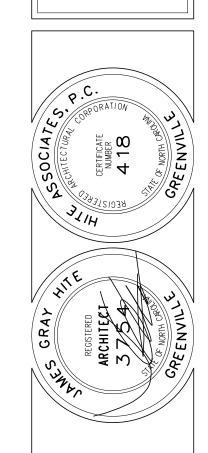
SEE SHEET T-1 FOR ADDITIONAL ABBREVIATIONS



001.1 LIFE SAFETY PLAN SCALE: 1" = 20'-0"

2168 ECHNOLOGY

HITE 3880CIATECTURE / PLANNING / TECHNOLOGY



Date: 7 February 2025

Drawing no. LS 001

ITE 3880CIATECTURE / PLANNING / TECHNOLOGY



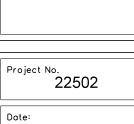
ving Elementary School

Project No. 22502

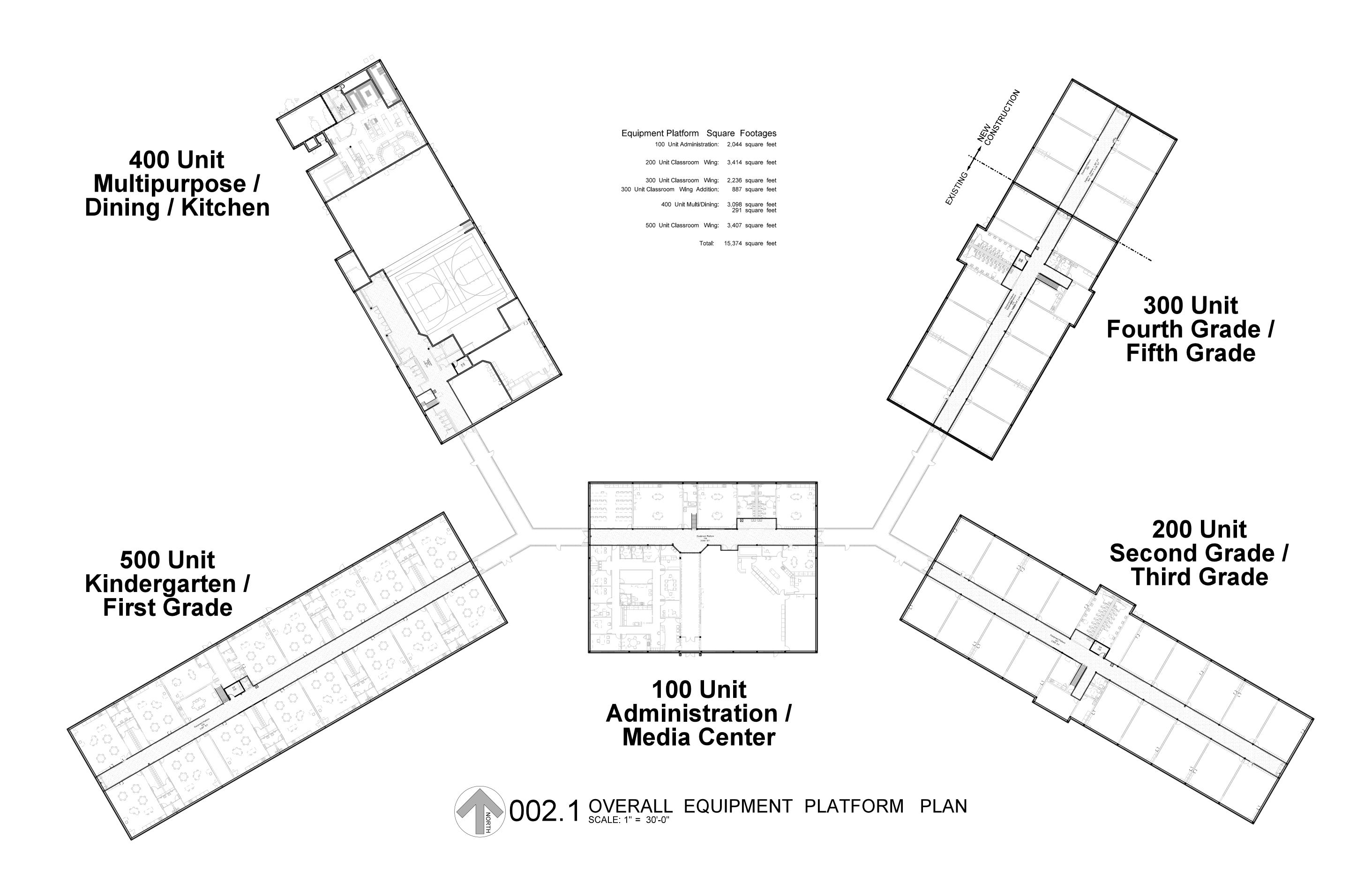
22502

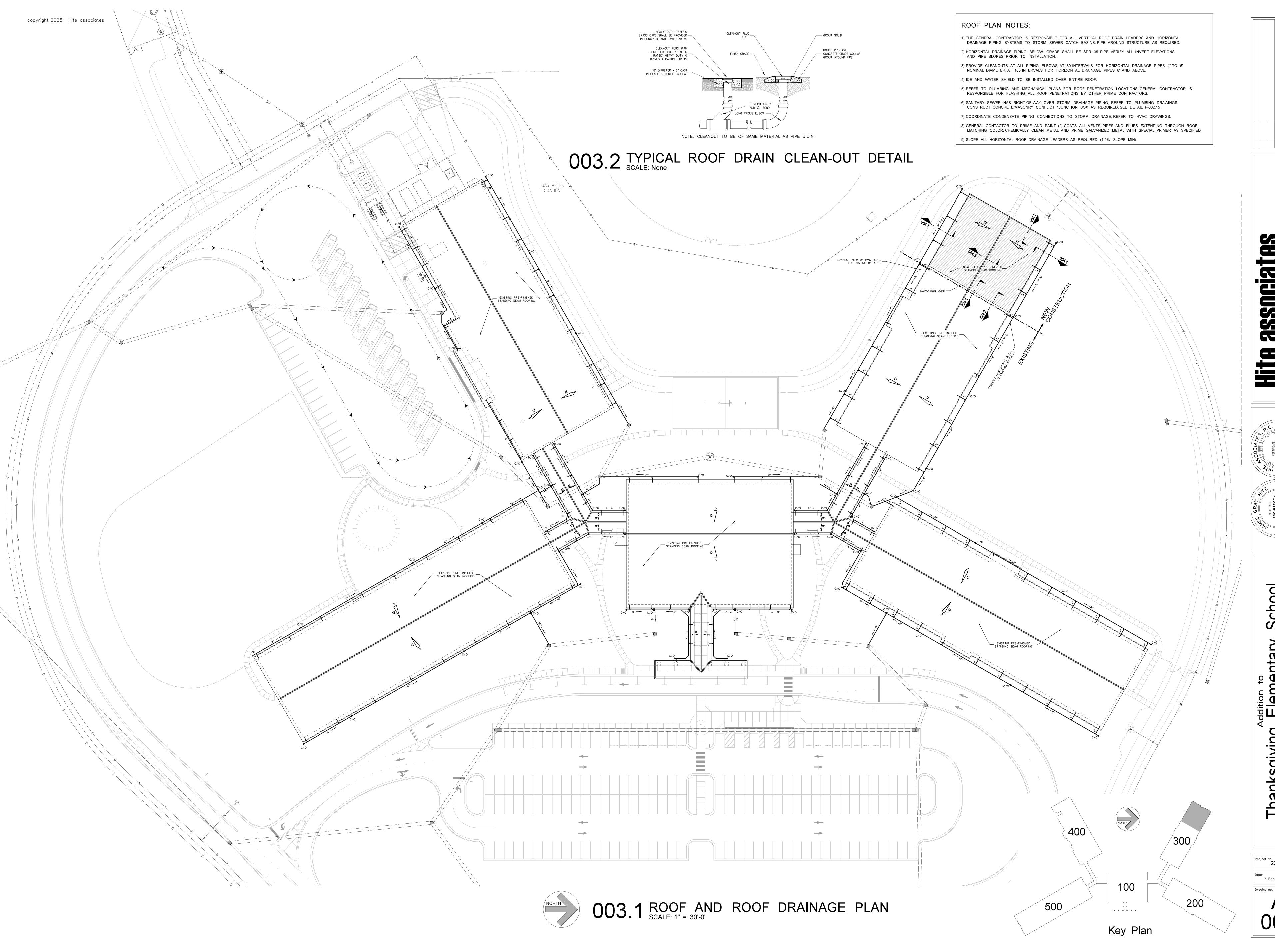
Date:
7 February 202

A 001



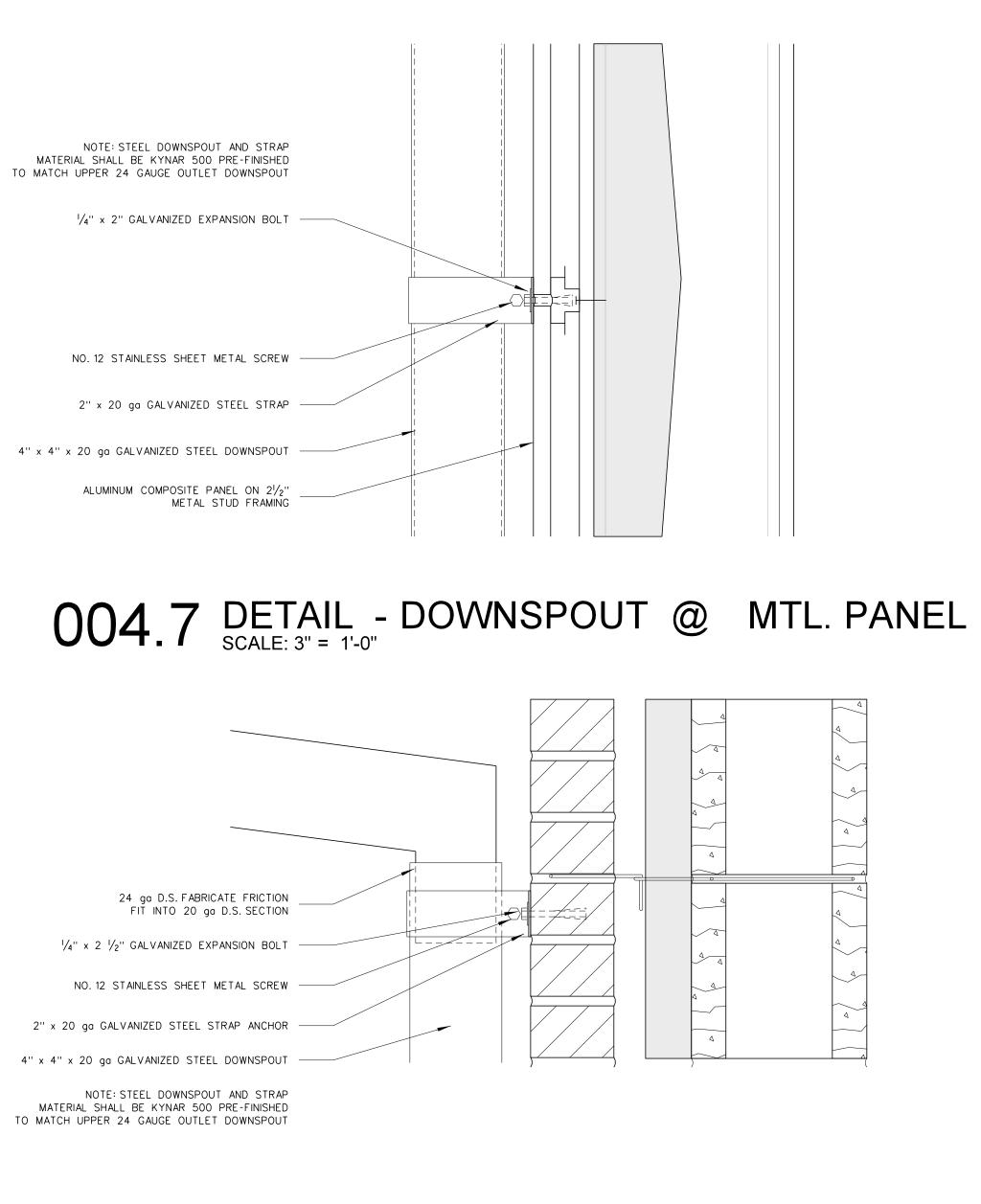
A OO2



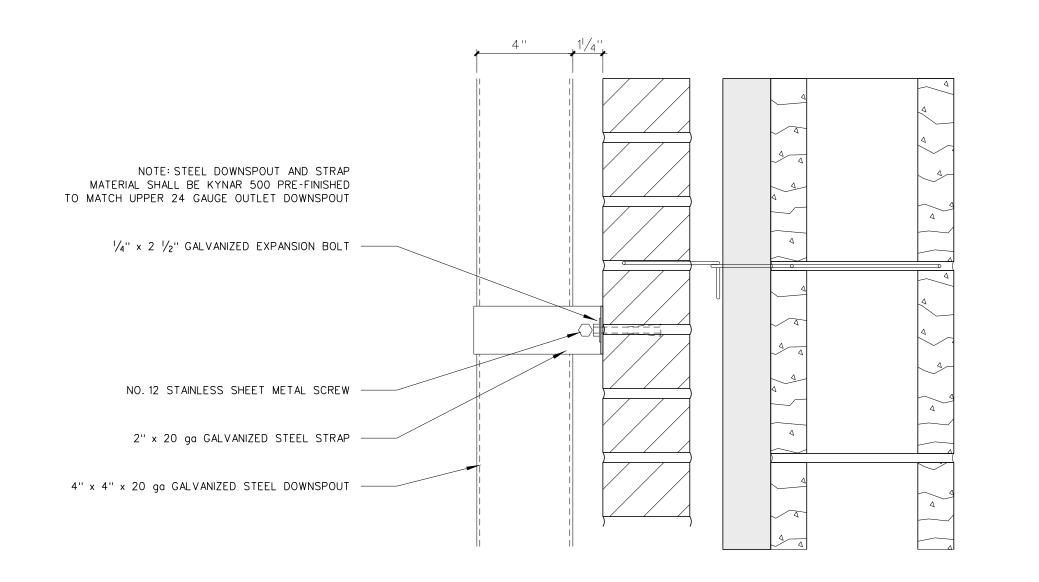


Dote: 7 February 2025

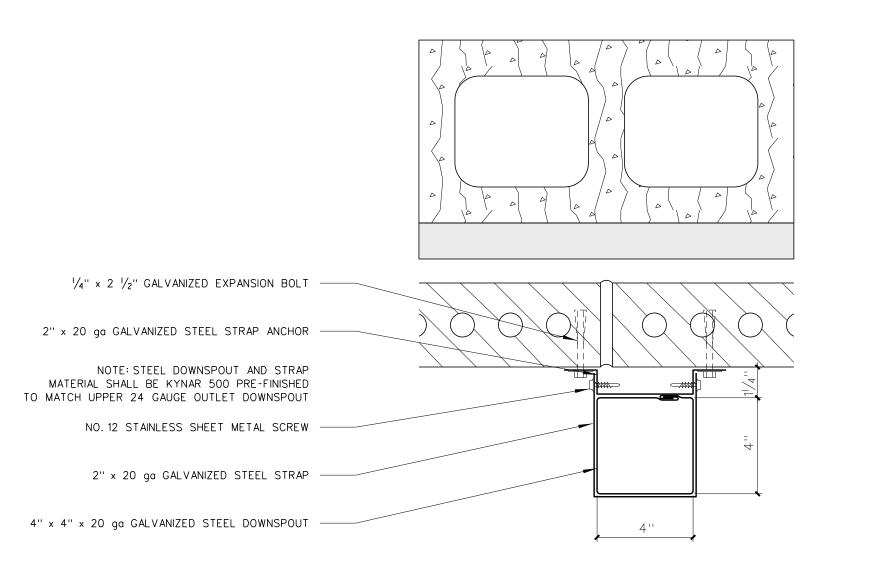
003



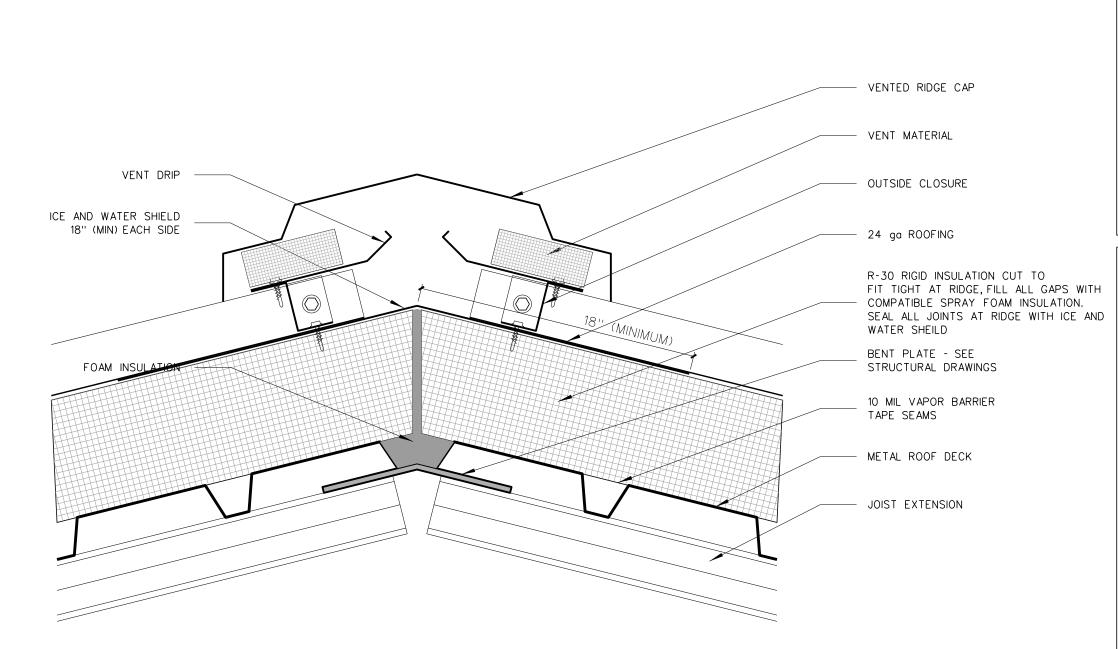




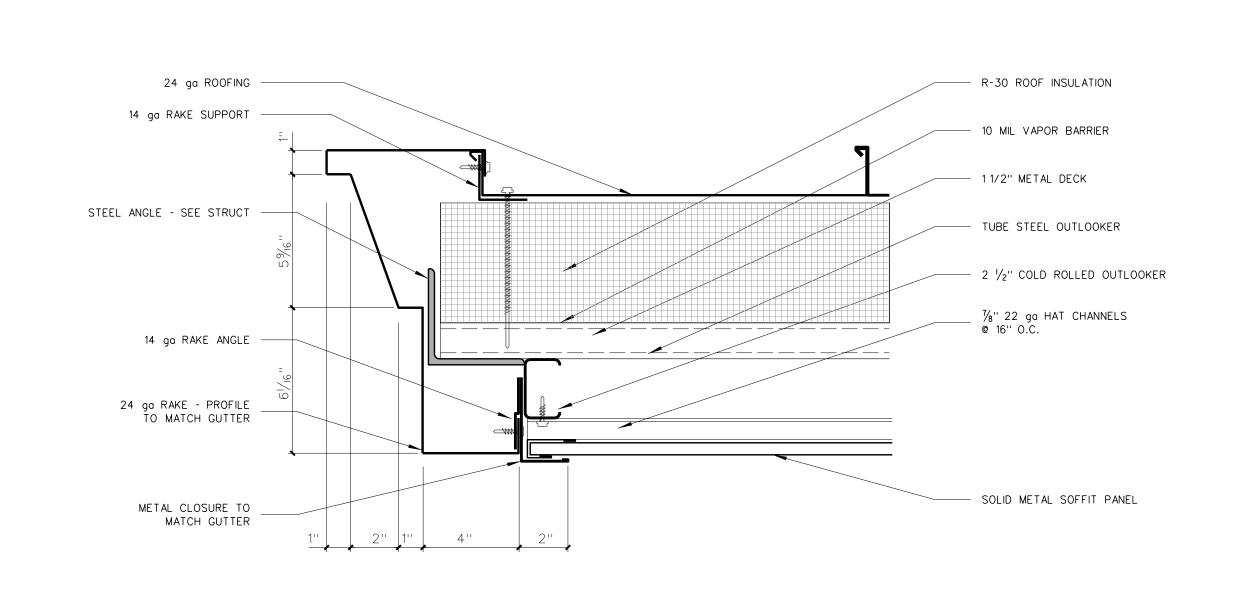
004.5 DETAIL - DOWNSPOUT @ BRICK



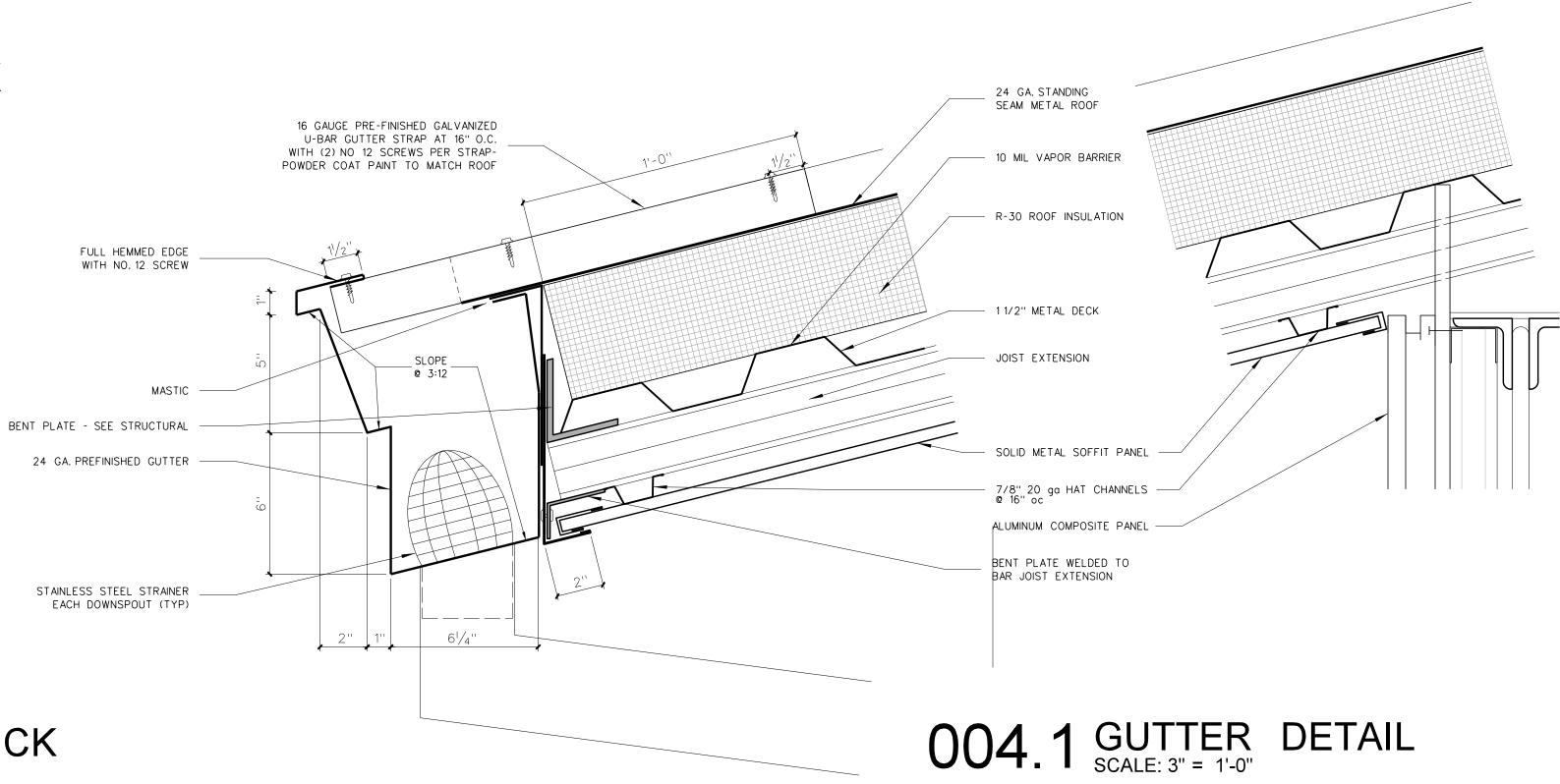
004.4 PLAN DETAIL - DOWNSPOUT @ BRICK



004.3 RIDGE DETAIL SCALE: 3" = 1'-0"



004.2 RAKE DETAIL SCALE: 3" = 1'-0"



School Elementary
County Schools Thanksgiving
Johnston
Lynch Road / John

Project No. 22502 7 February 2025 Drawing no.

# FINISH SCHEDULE

MARK	AREA	FLOOR	BASE	WALLS	CEILING	CLG HEIGHT	REMARKS
300	CORRIDOR	MCT	4" RUBBER	PAINTED CMU	<b>ACOUSTICAL TILE</b>	9'-0"	MATCH EXISTING FINISH COLORS / PATTERNS
319	CLASSROOM	MCT	4" RUBBER	PAINT CMU / DRYWALL	<b>ACOUSTICAL TILE</b>	VARIES	MATCH EXISTING FINISH COLORS / PATTERNS
320	CLASSROOM	MCT	4" RUBBER	PAINT CMU / DRYWALL	ACOUSTICAL TILE	VARIES	MATCH EXISTING FINISH COLORS / PATTERNS
321	CLASSROOM	MCT	4" RUBBER	PAINT CMU / DRYWALL	ACOUSTICAL TILE	VARIES	MATCH EXISTING FINISH COLORS / PATTERNS
322	CLASSROOM	MCT	4" RUBBER	PAINT CMU / DRYWALL	ACOUSTICAL TILE	VARIES	MATCH EXISTING FINISH COLORS / PATTERNS
323	CLASSROOM	MCT	4" RUBBER	PAINT CMU / DRYWALL	ACOUSTICAL TILE	VARIES	MATCH EXISTING FINISH COLORS / PATTERNS
324	CLASSROOM	MCT	4" RUBBER	PAINT CMU / DRYWALL	ACOUSTICAL TILE	VARIES	MATCH EXISTING FINISH COLORS / PATTERNS
NOTES							

OVERHEAD PLATFORM AND ACCESS AREAS: PAINT STEEL STAIRS AND RAILS AS SPECIFIED AND PROVIDE (2) COATS GRAY TINT GLOSS POLYURETHANE FLOOR SEALER AS SPECIFIED FOLLOWING FINAL CLEAN

GYPBOARD CEILINGS AND BULKHEADS: PAINT FLAT WHITE LATEX, NO TEXTURE, USE STRAIGHT CORNER BEADS, NO BULLNOSE

**WALL LEGEND** TO THE REPORT OF THE PROPERTY 8" METAL STUD WALL WITH GYPBOARD EACH SIDE WITH SOUND ATTENUATION BATTS 6" METAL STUD WALL WITH GYPBOARD EACH SIDE WITH SOUND ATTENUATION BATTS 3 5/8" METAL STUD WALL WITH GYPBOARD EACH SIDE WITH SOUND ATTENUATION BATTS 5 5/8" METAL STUD WALL WITH GYPBOARD EACH SIDE WITH SOUND ATTENUATION BATTS s -- s -- SMOKE TIGHT CONSTRUCTION WALLS AND CEILING ONE HOUR RATED FIRE BARRIER (PRIORITY 5 - LOWEST) ■ ■ ONE HOUR FIRE AND SMOKE BARRIER (PRIORITY 4) TWO HOUR RATED FIRE BARRIER (PRIORITY 3) TWO HOUR RATED FIRE AND SMOKE BARRIER (PRIORITY 2) ■1■3■1■ THREE HOUR RATED FIRE AND SMOKE BARRIER (PRIORITY 1 - HIGHEST) **ABBREVIATIONS** 

CB CHALKBOARD

MB MARKERBOARD

VDB VISUAL DISPLAY MONITOR MVDM MOBILE VISUAL DISPLAY MONITOR

TB TACK BOARD BK BOOKCASE

CU CUBBIES

IAWB INTERACTIVE WHITE BOARD

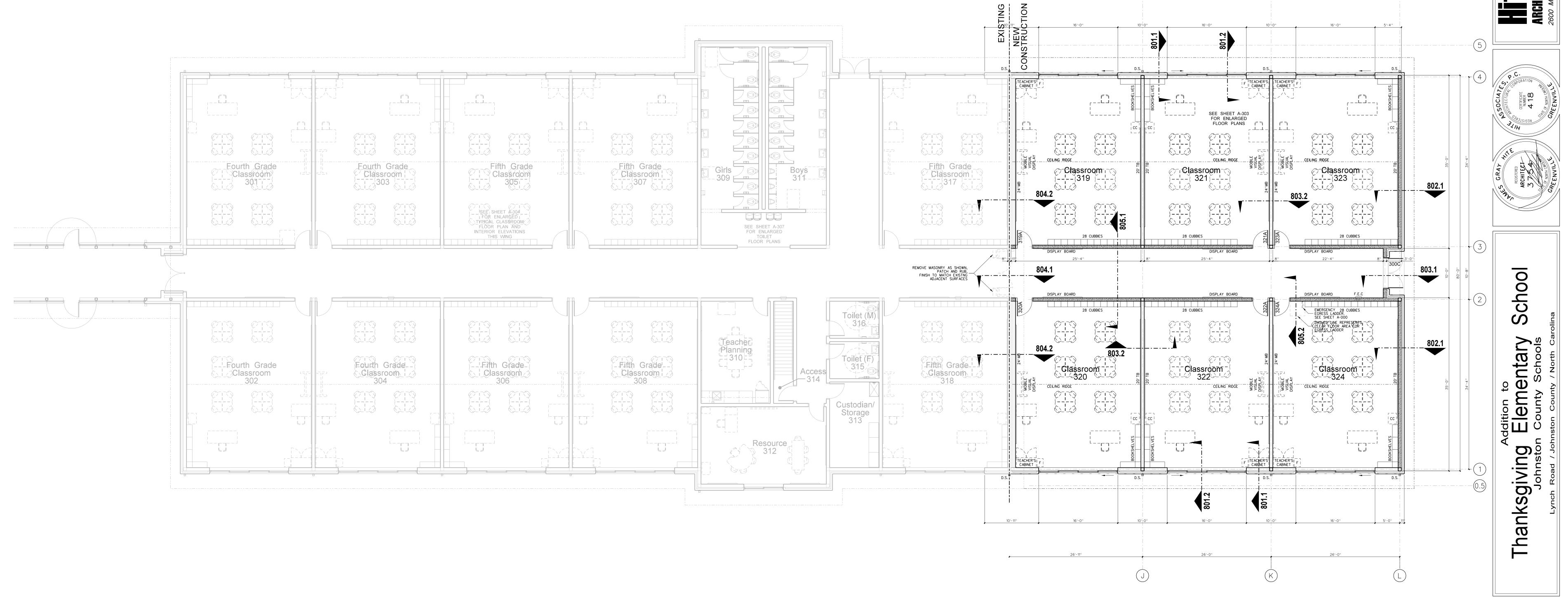
RT RUBBER TRANSITION W/ 1/2" MAX. LIP

FEC FIRE EXTINGUISHER CABINET C.J. CONTROL JOINT

E.J. EXPANSION JOINT

TD TRAVEL DISTANCE

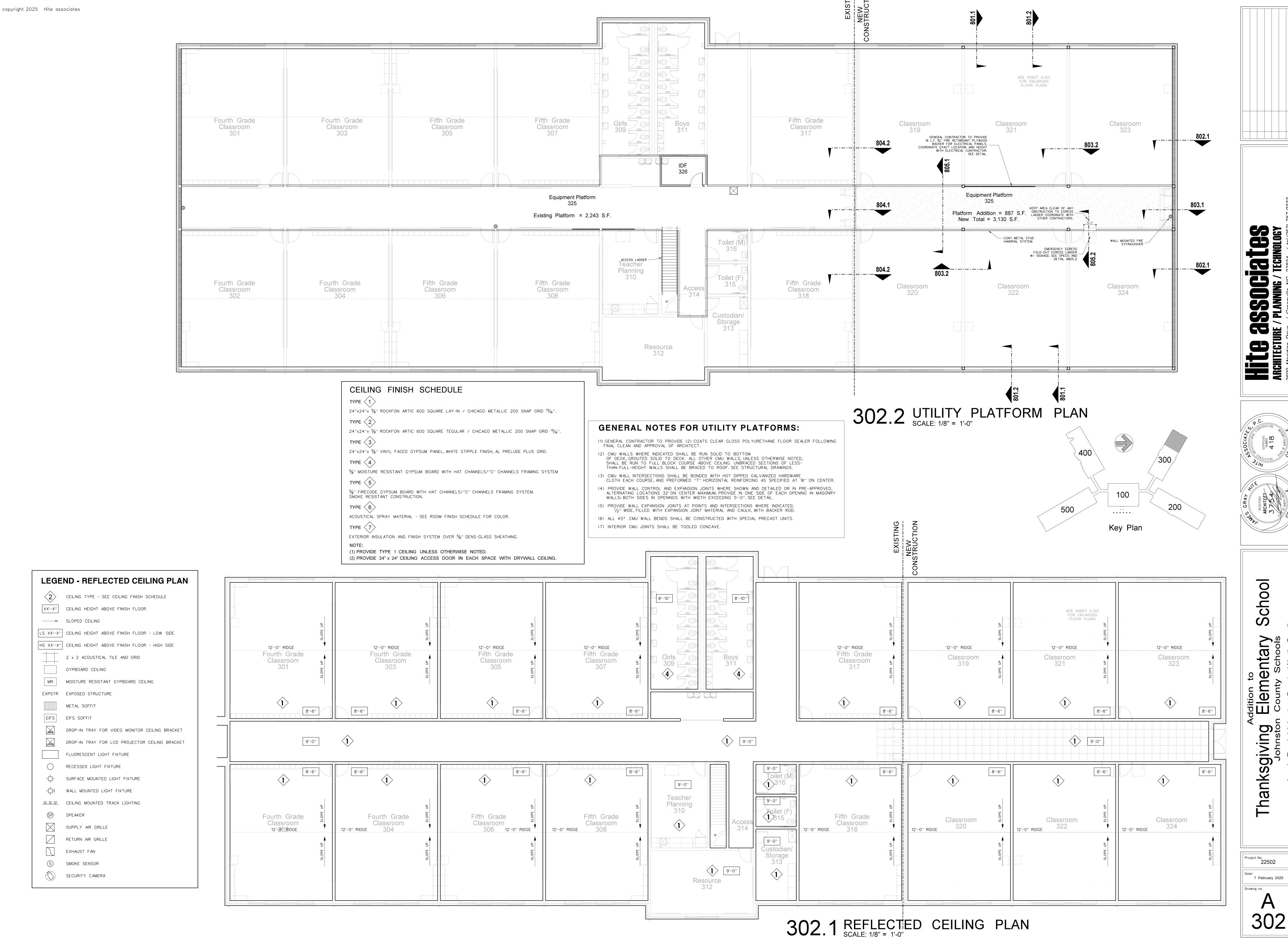
SEE SHEET T-1 FOR ADDITIONAL ABBREVIATIONS



School

7 February 2025

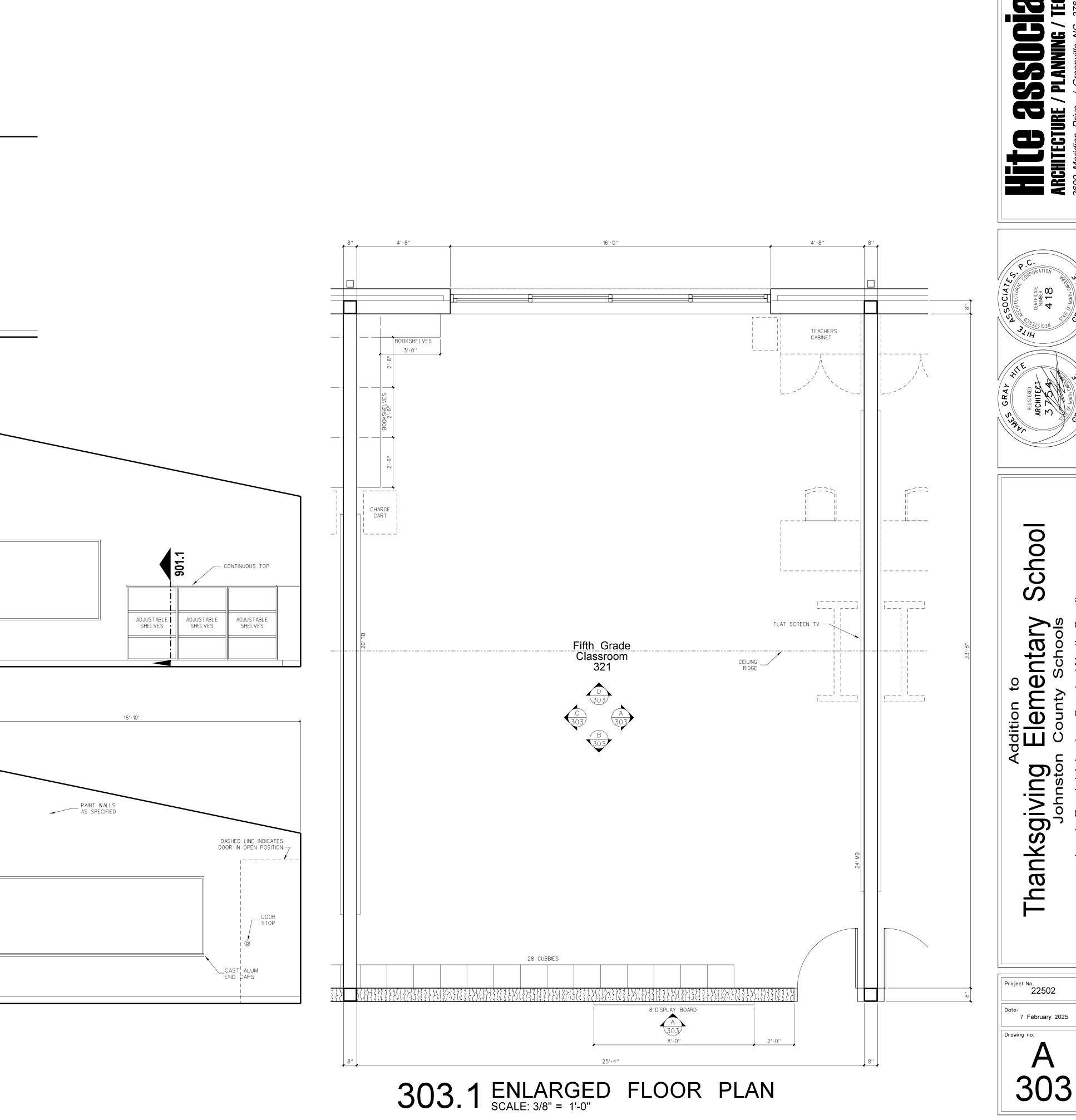
301.1 FLOOR PLAN: 300 UNIT ADDITION



SOCIATION / TECHN

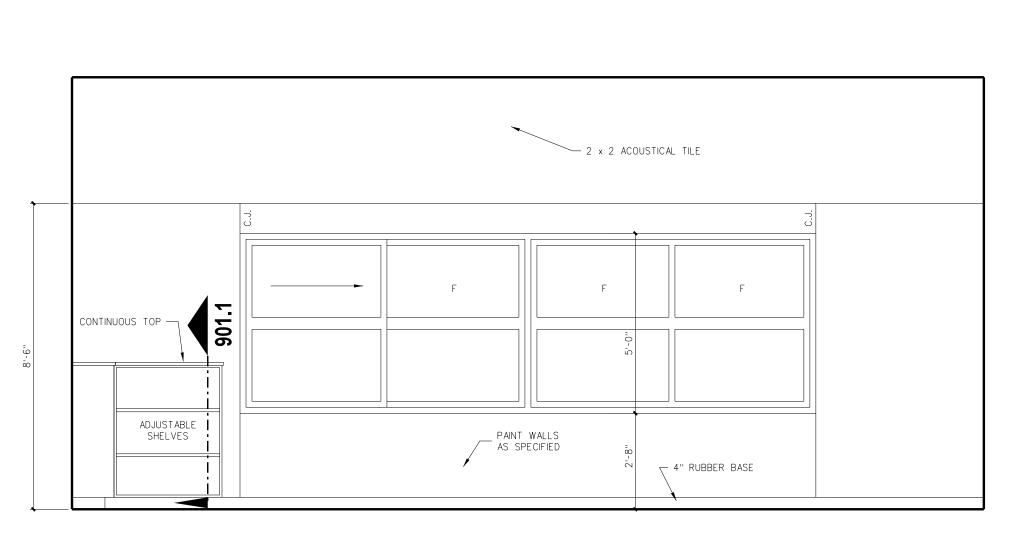
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7 February 2025

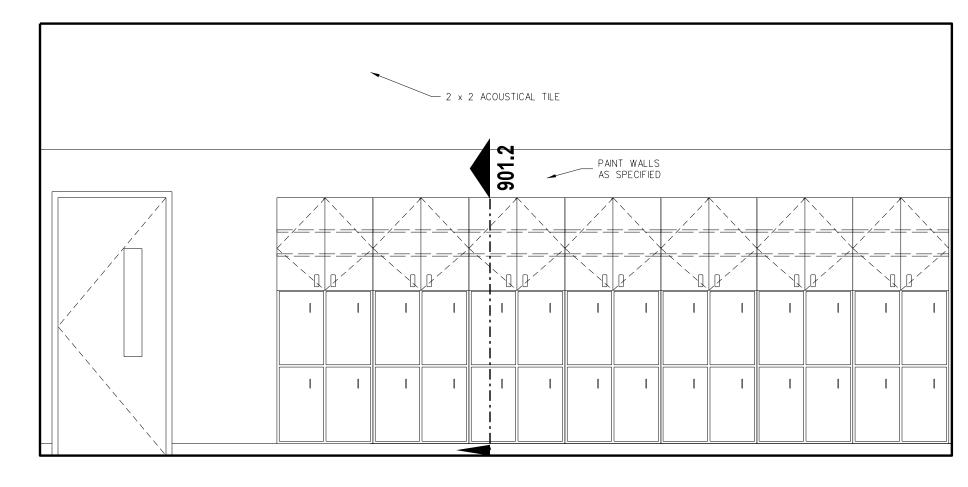


School

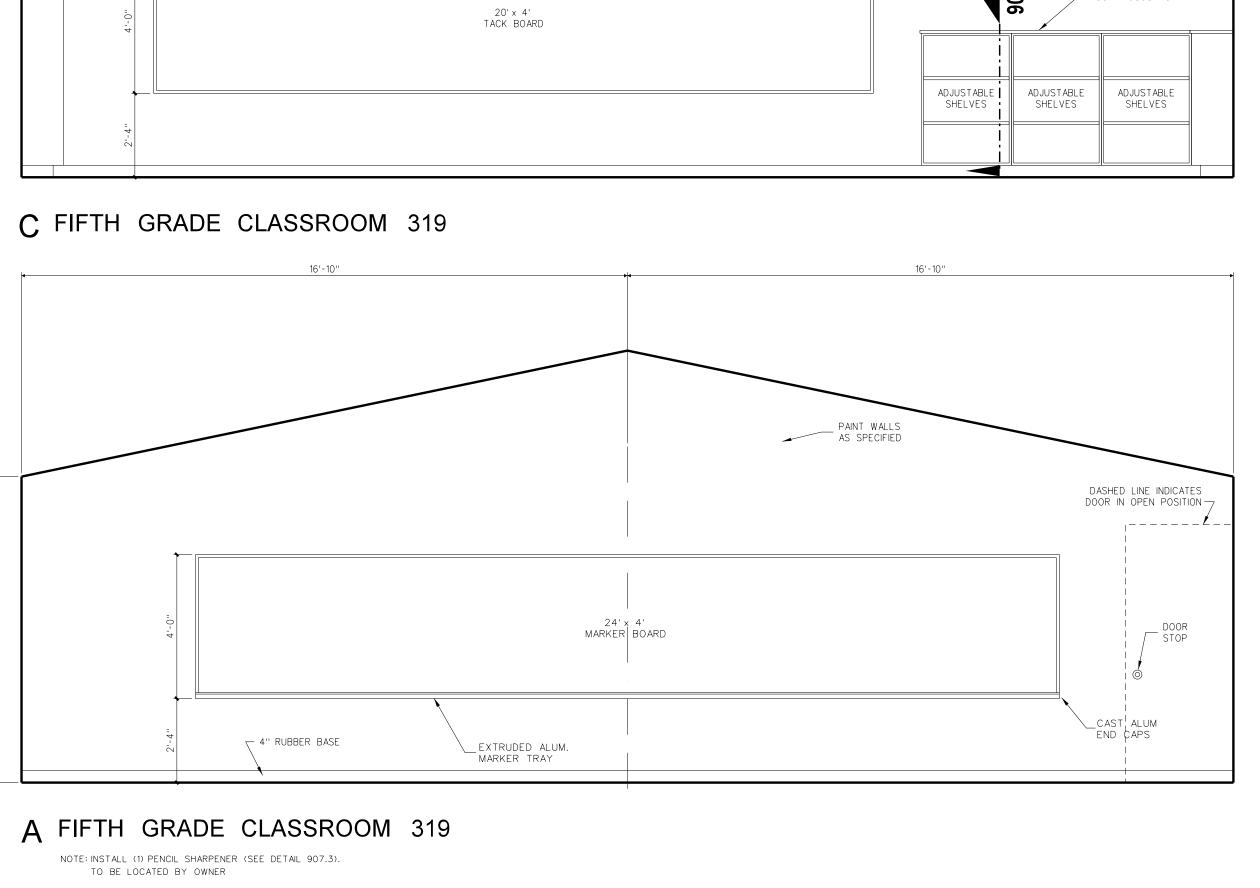
7 February 2025



D FIFTH GRADE CLASSROOM 319



B FIFTH GRADE CLASSROOM 319



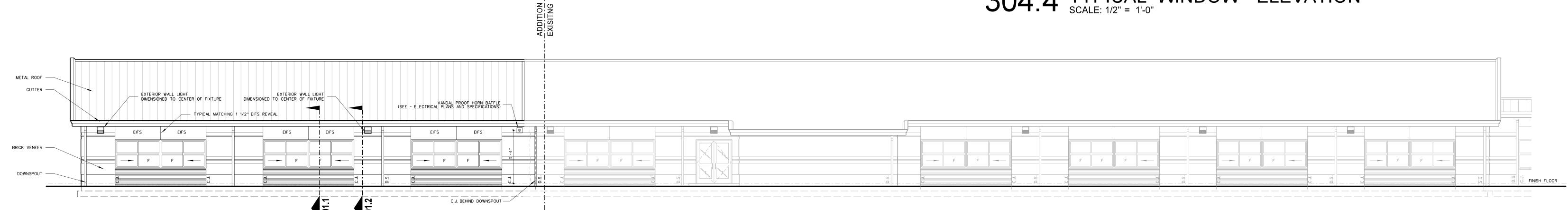
303.2 INTERIOR ELEVATIONS SCALE: 3/8" = 1'-0"

DISPLAY

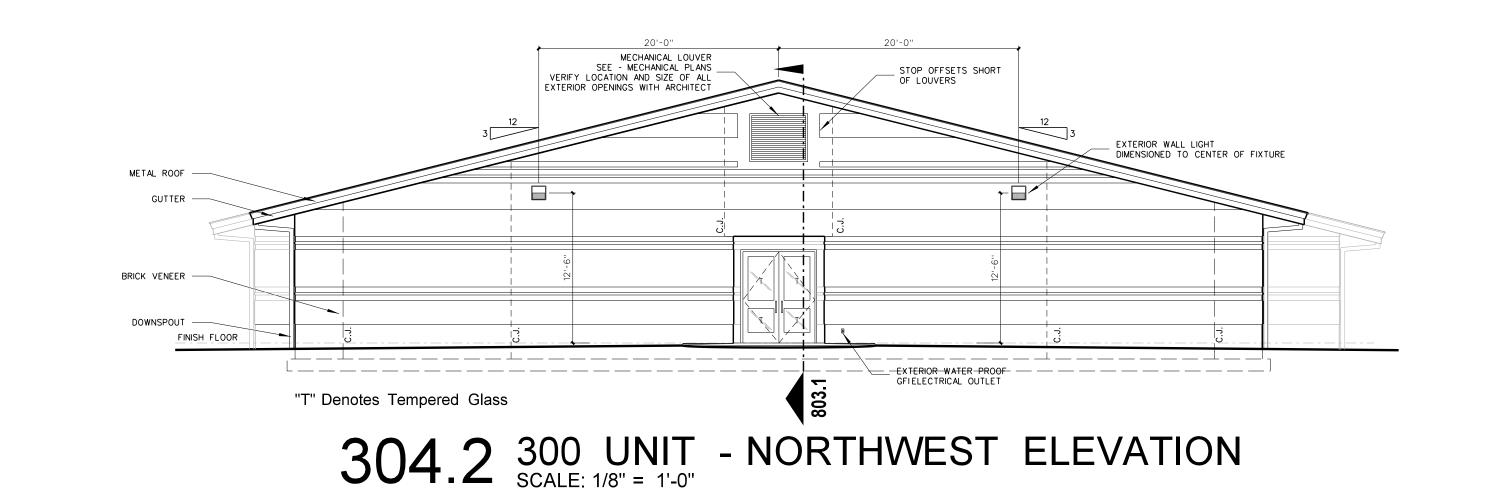
8'-0" TACK BOARD

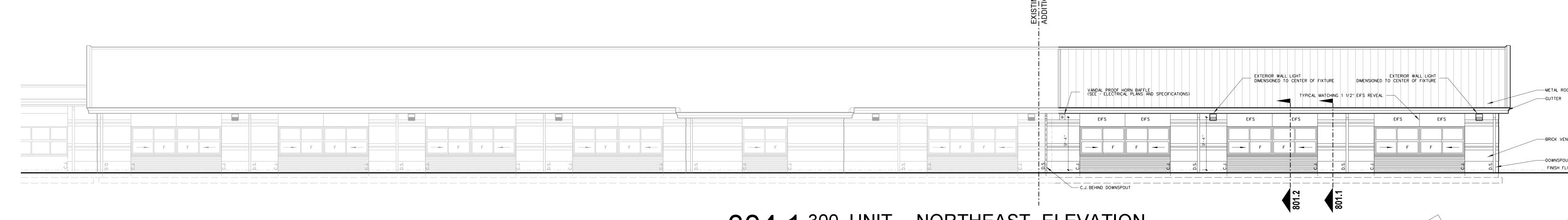
A CORRIDOR 300 DISPLAY BOARD
TYPICAL DISPLAY BORARD OUTSIDE EACH CLASSROOM





304.3 300 UNIT - SOUTHWEST ELEVATION





304.1 300 UNIT - NORTHEAST ELEVATION

NOTE:
GENERAL CONTRACTOR SHALL VERIFY TOP OF FINISH GRADES, TOP OF
OF CONCRETE WALKS AND TOP OF CONCRETE SLABS ADJACENT TO
BUILDING AND ADJUST LOCATION OF THROUGH WALL FLASHING AND WEEPS.

400 300 300 500 Every Plan

SOCIATOS ANNIG / TECHNOLOGY

FEGISTERED

REGISTERED

RECOSTERED

RECOST

ksgiving Elementary School

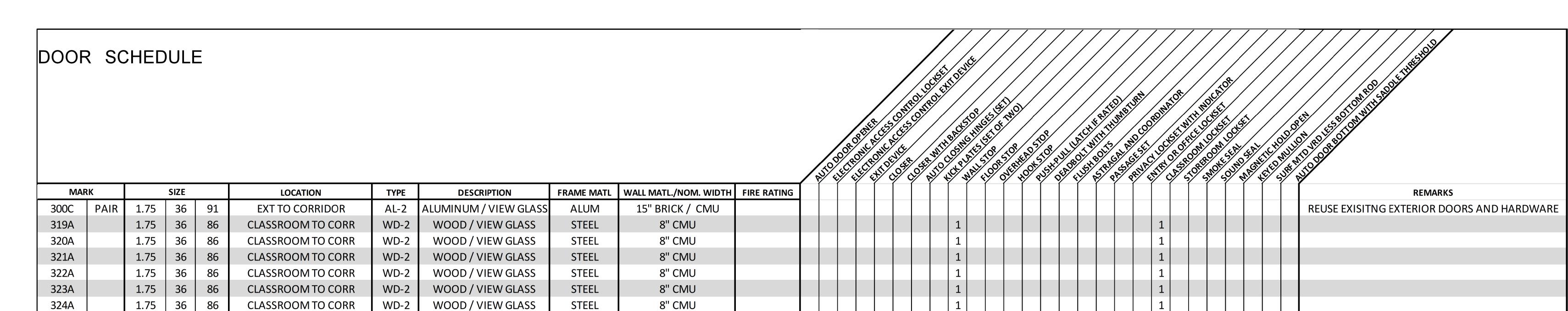
Project No.
22502

Date:
7 February 2025

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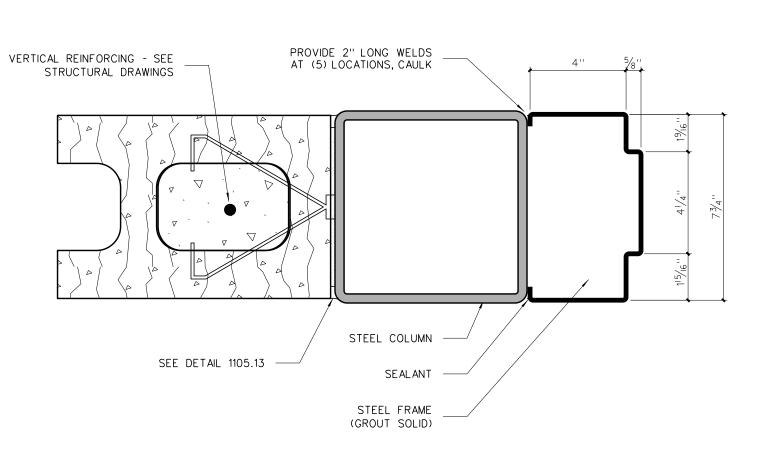
# Project No. 22502 7 February 2025 Drawing no.



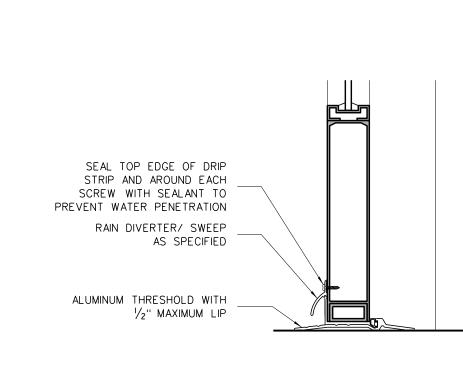
NOTES AND GENERAL AND SPECIAL HARDWARE REQUIRED ALL DOORS TO RECEIVE HINGES AS SPECIFIED 2 ALL DOORS TO RECEIVE WALL OR OVERHEAD STOPS TO SUIT CONDITION OF USE. DOORS WITH MAGNETIC HOLD OPENS TO RECEIVE FLOOR STOPS. 3 PROVIDE CLOSERS WITH BACKSTOPS EXTERIOR DOORS AND TO SUIT CONDITION OF USE, ALL CLOSERS TO BE THROUGH-BOLTED 4 ALL STEEL FRAMES TO BE PROVIDED WITH SILENCERS 5 EXTERIOR AND IDF ROOM DOORS TO BE PROVIDED WITH WEATHERSTRIPPING AND THRESHOLDS 6 EXIT DEVICES TO BE PROVIDED WITH CYLINDERS AT PAIRS OF DOORS, PULL SIDE, PROVIDE PULL OR LEVER BOTH SIDES ONLY UNLESS OTHERWISE NOTED 8 ALUMINUM DOORS - SEE SPECIFICATIONS FOR HARDWARE NOT INDICATED ABOVE 9 PROVIDE CYLINDERS FOR KEYED MULLIONS SUPPLIED BY ALUMINUM DOOR SUPPLIER

11 EXIT DEVICES AT EXTERIOR DOORS TO BE NL WITH PULL 12 EXIT DEVICES AT INTERIOR DOORS TO BE CLASSROOM FUNCTION WITH LEVER 13 PROVIDE 4" WIDE STEEL JAMBS FOR DOORS ABUTTING STEEL COLUMNS AND SPECIAL CONDITIONS AS NOTED

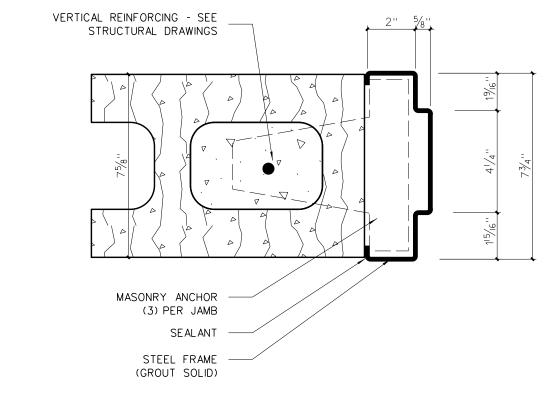
10 PROVIDE SOLID WOOD BLOCKING FOR DOOR STOPS AND HOLD OPEN DEVICES



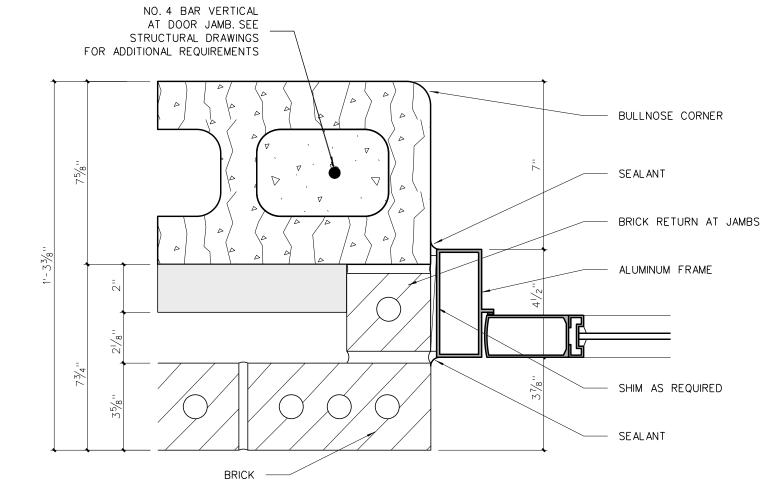
701.6 JAMB- TYP. @ COLUMNS



701.5 DOOR THRESHOLD DETAIL



701.3



701.1 **JAMB** 

8" CMU LINTEL SEE LINTEL SCHEDULE FOR REINFORCING

P.T. 2 x 4 BLOCKING

STEEL ANGLE - SEE STRUCTURAL DRAWINGS

SEALANT

ALUMINUM FRAME

THRU-WALL FLASHING AS SPECIFIED WITH PLASTIC WEEP INSERTS @ 32" O.C.

WIDE STILE ALUMINUM SOLID CORE FLUSH WOOD WITH IMPACT SAFETY GLASS
IN STEEL FRAME GLASS IN ALUMINUM STOREFRONT FRAME

NOTE: ALL STEEL DOORS AND DOOR FRAMES TO BE GALVANIZED.

701.7 DOOR ELEVATIONS SCALE: 1/4" = 1'-0"

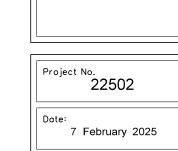
8" CMU LINTEL SEE LINTEL SCHEDULE FOR REINFORCING SEALANT -STEEL FRAME GROUT SOLID 115/16" 41/4" 19/16

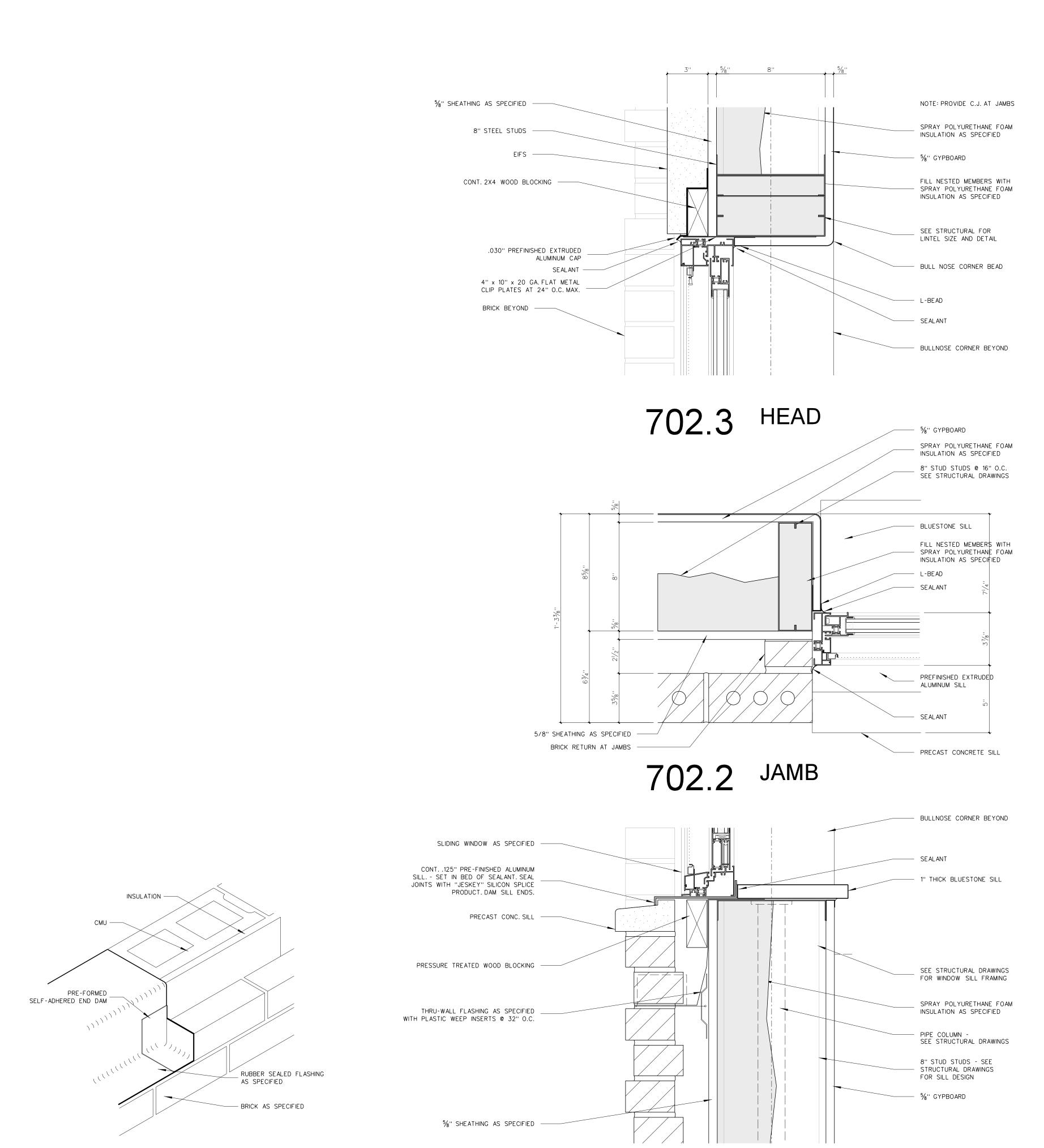
701.4 HEAD



701 DOOR DETAILS





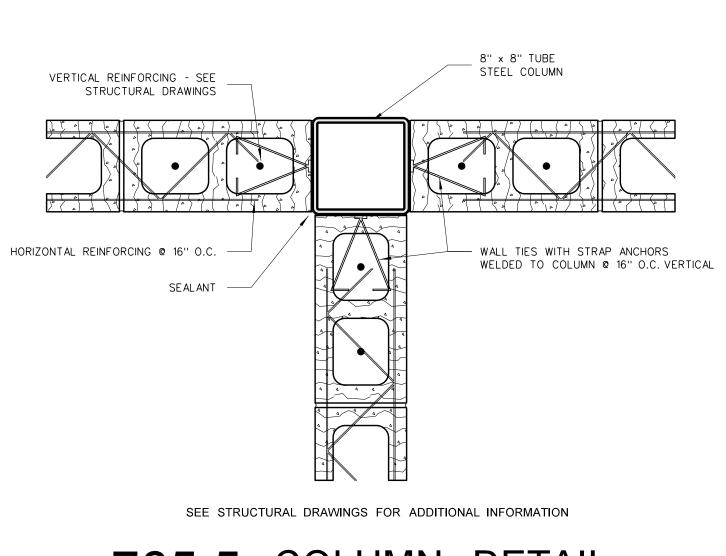


702.4 WINDOW FLASHING DETAILS

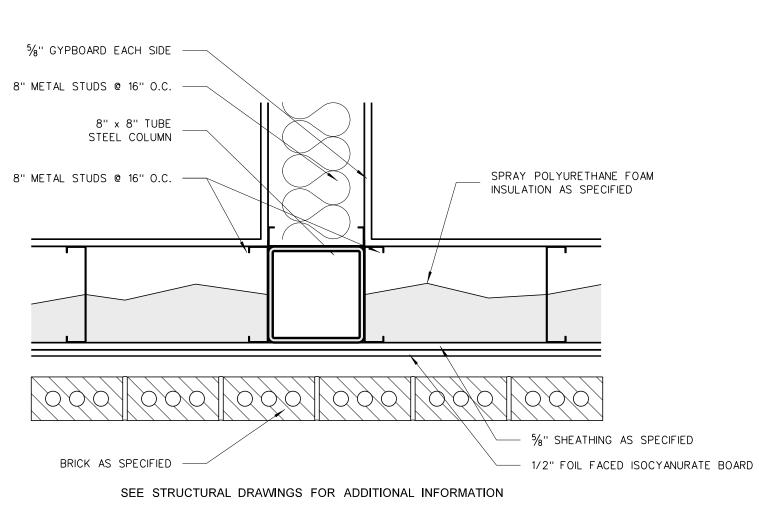
ETAILS 702.1 SILL

702 WINDOW DETAILS SCALE: 3" = 1'-0"

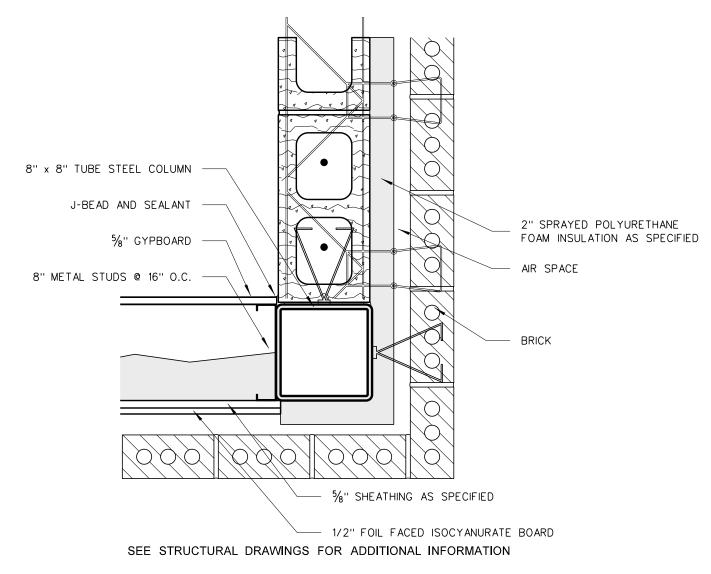
7 February 2025



705.5 COLUMN DETAIL



703.2 COLUMN DETAIL



SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

705.4 COLUMN DETAIL

\_ 8" x 8" TUBE STEEL COLUMN

WALL TIES WITH STRAP ANCHORS
WELDED TO COLUMN @ 16" O.C.
SEE STRUCTURAL DRAWINGS

VERTICAL REINFORCING - SEE \_ STRUCTURAL DRAWINGS \_

HORIZONTAL REINFORCING @ 16" O.C. ---

703.1 COLUMN DETAIL

703.3 COLUMN DETAIL

SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

1/2" FOIL FACED ISOCYANURATE BOARD

58" SHEATHING AS SPECIFIED

SPRAY POLYURETHANE FOAM INSULATION AS SPECIFIED

%" GYPBOARD EACH SIDE −

8" x 8" TUBE STEEL COLUMN —

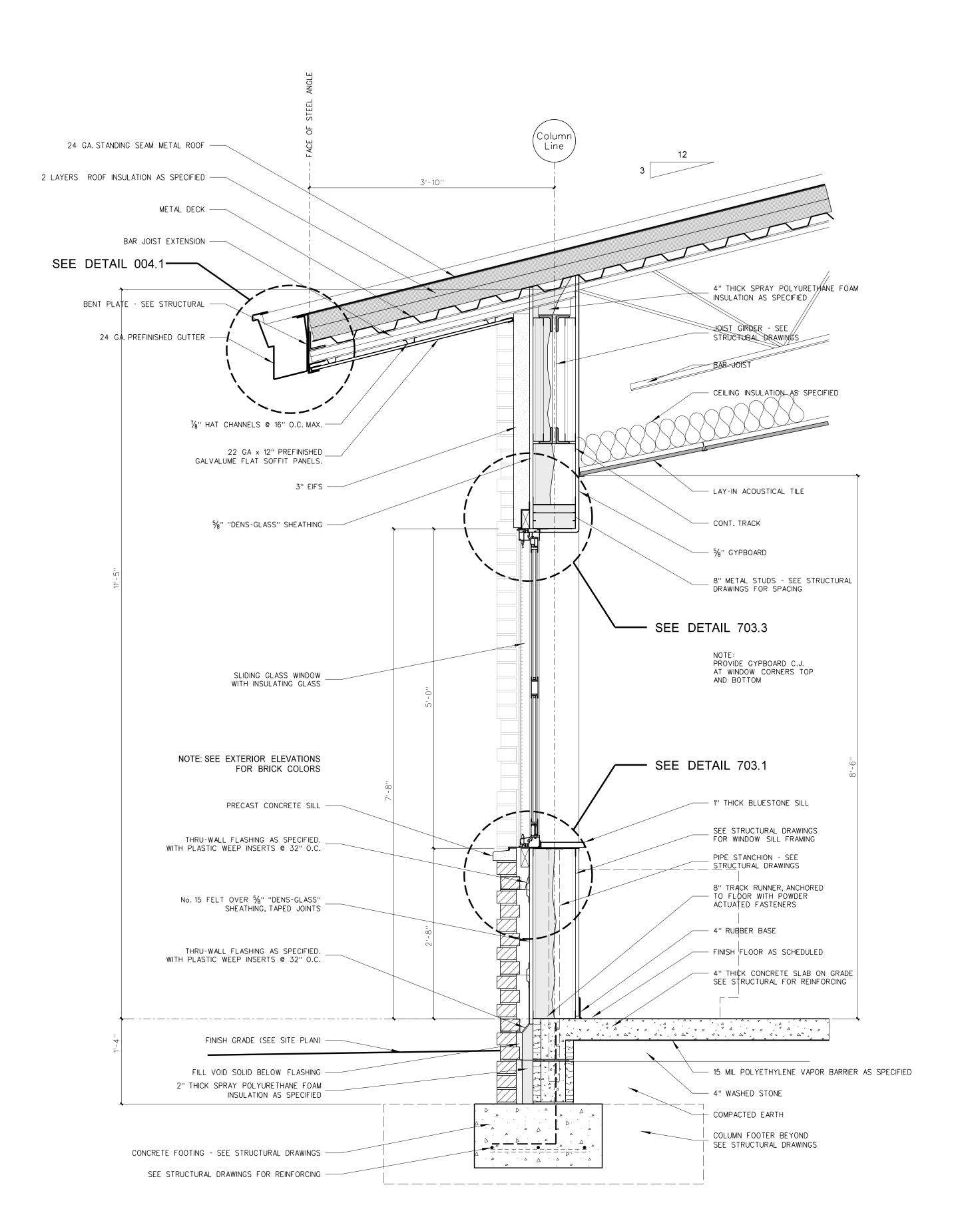
8" METAL STUDS @ 16" O.C.

703 COLUMN DETAILS

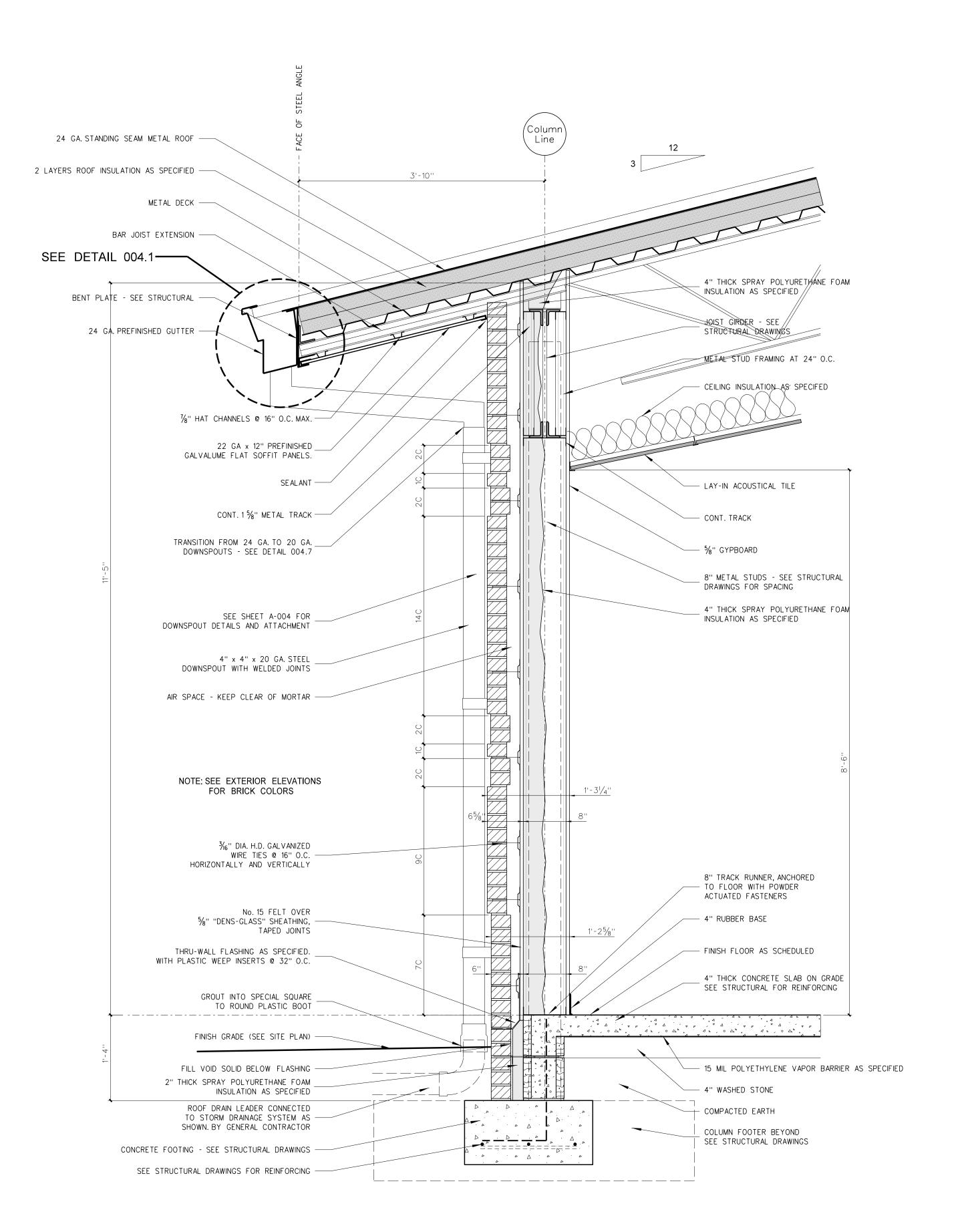
801.3 BRICK REVEAL DETAIL

SCALE: 3" = 1'-0"

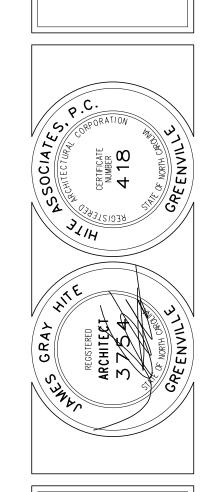
**General Notes for Wall Sections** (1) SEE EXTERIOR ELEVATIONS FOR BRICK COLOR. (2) GENERAL CONTRACTOR SHALL VERIFY TOP OF FINISH GRADES, TOP OF OF CONCRETE WALKS AND TOP OF CONCRETE SLABS ADJACENT TO BUILDING AND ADJUST LOCATION OF THROUGH WALL FLASHING ACCORDINGLY. (3) PROVIDE PLASTIC INSERT WEEPS AT ALL AT DOOR, WINDOW AND FLOOR FLASHING. (4) GENERAL CONTRACTOR SHALL SLOPE CONCRETE FLOOR TO FLOOR DRAINS AS SHOWN ON PLUMBING DRAWINGS. (5) ALL CMU CELLS BELOW FINISH FLOOR SHALL BE FILLED WITH CONCRETE. (6) ALL VAPOR BARRIERS UNDER FLOOR SLABS SHALL BE LAPPED 12" MINIMUM AND TAPED CONTINUOUS AT JOINTS. GENERAL CONTRACTOR SHALL REPAIR ANY DAMAGED VAPOR BARRIER PRIOR TO PLACING CONCRETE. (7) PROVIDE 4" MINIMUM SPRAY POLYURETHANE INSULATION IN ALL METAL STUDS EXTERIOR WALLS. SEE WALL SECTIONS AND SPECIFICATIONS. (8) PROVIDE SPRAY POLYURETHANE INSULATION IN ALL NESTED METAL STUD WINDOW AND DOOR JAMBS, SILLS AND HEADS. (9) ALL INTERIOR METAL STUD/GYPSUM WALLBOARD PARTITIONS REQUIRE SOUND ATTENUATION BATTS. (10) PROVIDE METAL CHAIRS UNDER ALL STEEL WIRE MATS REINFORCING STEEL FOR CONCRETE SLABS AND FOUNDATIONS. (11) PROVIDE GYPSUM CONTROL JOINTS AT ALL GYPBOARD / METAL STUD WINDOW JAMBS. SEE INTERIOR ELEVATIONS. (12) ALL SEALANT COLORS TO BE SELECTED BY ARCHITECT. (13) ROOF INSULATION: TAPE ALL ROOF INSUALTION JOINTS, BOTH LAYER. LAP AND TAPE VAPOR BARRIER. ARCHITECT TO FIELD VERIFY PRIOR TO METAL ROOF PANEL INSTALLATION. (14) PROVIDE PRE-FORMED THRU-WALL FLASHING CORNER MEMBERS FOR EXTERIOR WALL CORNERS AS SPECIFIED.



801.2 WALL SECTION - SLIDING WINDOW / EGRESS EXIT



801.1 WALL SECTION: TYPICAL CLASSROOM @ BRICK



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Project No. 22502

7 February 2025 Drawing no. A 801 - BITUMINOUS SHEET TO

BE USED AS A SLIDE PLATE

**General Notes for Wall Sections** (1) SEE EXTERIOR ELEVATIONS FOR BRICK COLOR. (2) GENERAL CONTRACTOR SHALL VERIFY TOP OF FINISH GRADES, TOP OF CONCRETE WALKS AND TOP OF CONCRETE SLABS ADJACENT TO BUILDING AND ADJUST LOCATION OF THROUGH WALL FLASHING ACCORDINGLY. (3) PROVIDE PLASTIC INSERT WEEPS AT ALL AT DOOR, WINDOW AND FLOOR FLASHING. (4) GENERAL CONTRACTOR SHALL SLOPE CONCRETE FLOOR TO FLOOR DRAINS AS SHOWN ON PLUMBING DRAWINGS. (5) ALL CMU CELLS BELOW FINISH FLOOR SHALL BE FILLED WITH CONCRETE. (6) ALL VAPOR BARRIERS UNDER FLOOR SLABS SHALL BE LAPPED 12" MINIMUM AND TAPED CONTINUOUS AT JOINTS. GENERAL CONTRACTOR SHALL REPAIR ANY DAMAGED VAPOR BARRIER PRIOR TO PLACING CONCRETE. (7) PROVIDE 4" MINIMUM SPRAY POLYURETHANE INSULATION IN ALL METAL STUDS EXTERIOR WALLS. SEE WALL SECTIONS AND SPECIFICATIONS. (8) PROVIDE SPRAY POLYURETHANE INSULATION IN ALL NESTED METAL STUD WINDOW AND DOOR JAMBS, SILLS AND HEADS. (9) ALL INTERIOR METAL STUD/GYPSUM WALLBOARD PARTITIONS REQUIRE SOUND ATTENUATION BATTS. (10) PROVIDE METAL CHAIRS UNDER ALL STEEL WIRE MATS REINFORCING STEEL FOR CONCRETE SLABS AND FOUNDATIONS. (11) PROVIDE GYPSUM CONTROL JOINTS AT ALL GYPBOARD / METAL STUD WINDOW JAMBS. SEE INTERIOR ELEVATIONS. (12) ALL SEALANT COLORS TO BE SELECTED BY ARCHITECT. (13) ROOF INSULATION: TAPE ALL ROOF INSUALTION JOINTS, BOTH LAYER, LAP AND TAPE VAPOR BARRIER. ARCHITECT TO FIELD VERIFY PRIOR TO METAL ROOF PANEL INSTALLATION. (14) PROVIDE PRE-FORMED THRU-WALL FLASHING CORNER MEMBERS FOR EXTERIOR WALL

CORNERS AS SPECIFIED.

CONTROL JOINT ONE SIDE ALL

MASONRY OPENINGS, BOTH SIDES

IF OPENING EXCEEDS 5'-0" AND

30'-0" O.C. UNLESS OTHERWISE NOTED.

METAL STUD FRAMING AT 24" O.C.

UTILITY PLATFORM FINISH FLOOR

— METAL DECK

Line /

24 GA. STANDING SEAM METAL ROOF OVER ICE AND WATER SHIELD

— 2 LAYERS ROOF INSULATION AS SPECIFIED

T.S.  $1\frac{1}{2}$ " x  $1\frac{1}{2}$ " x  $\frac{1}{4}$ " OUT RIGGER

SEE STRUCTURAL DRAWINGS

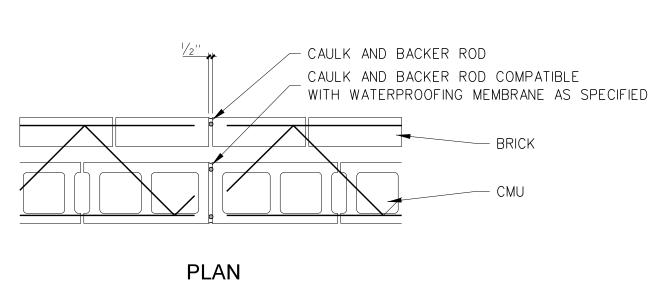


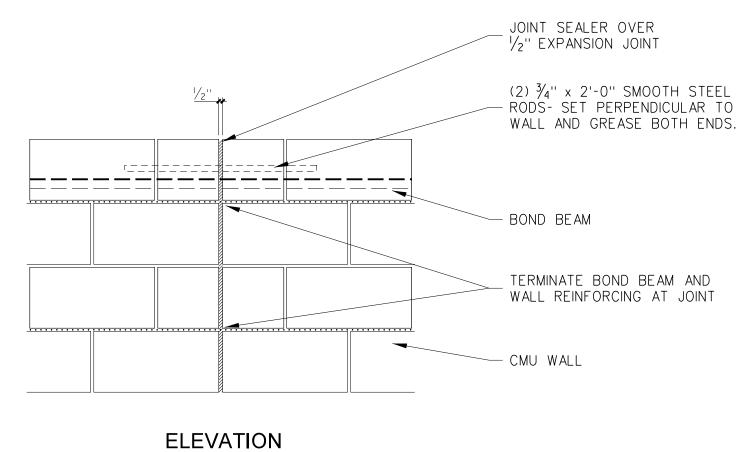
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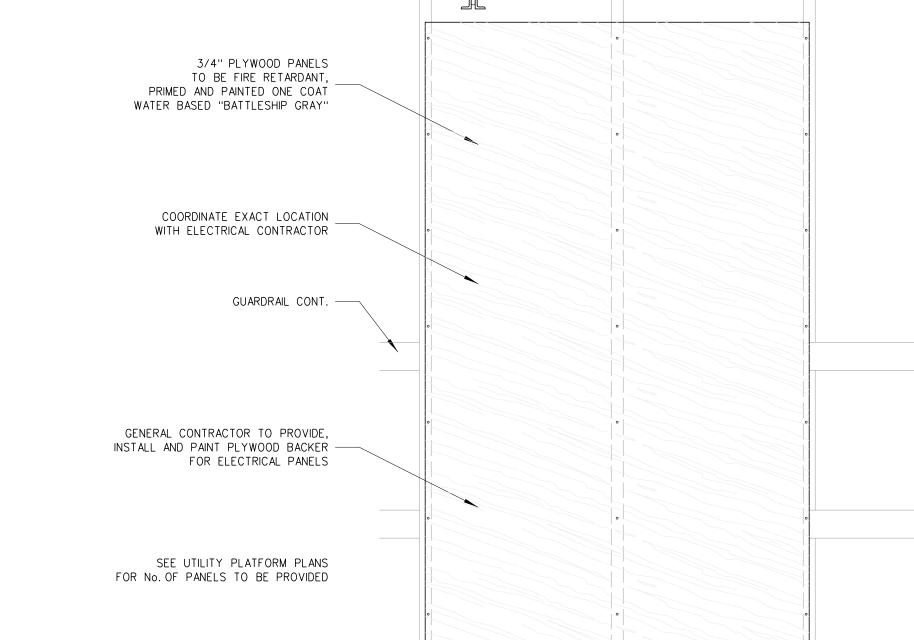
802

TYPICAL MASONRY OPENING CONTROL JOINT

**ELEVATION** 

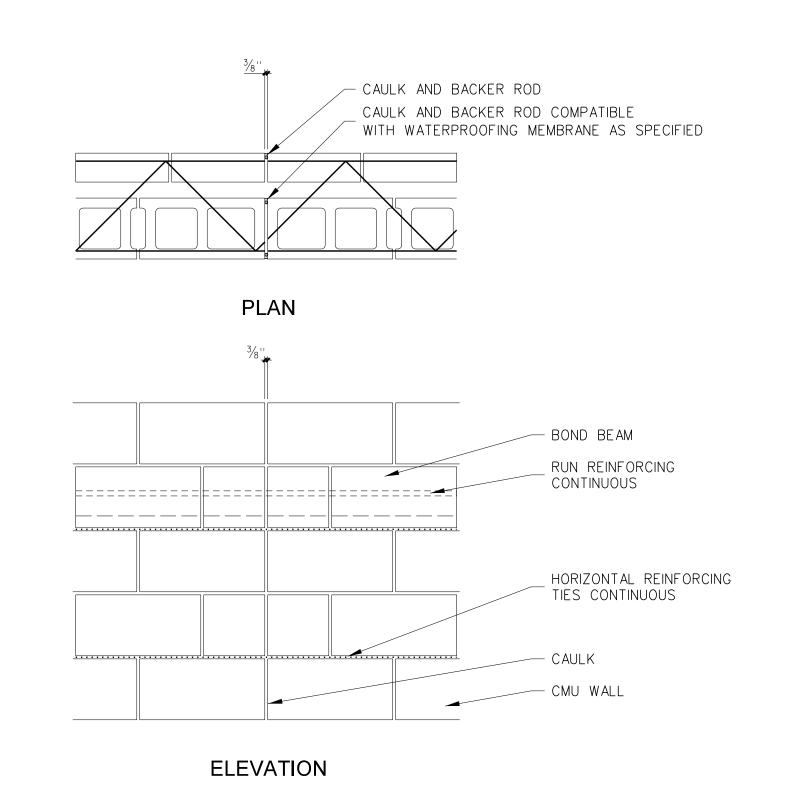






802.3 UTILITY PLATFORM ELECTRICAL PANEL BACKER

# TYPICAL EXPANSION JOINT



TYPICAL CONSTRUCTION JOINT

802.1 WALL SECTION - CLASSROOM ENDWALL SCALE: 1" = 1'-0"

802.2 MASONRY CONSTRUCTION JOINT DETAILS

- GROUT SOLID 7/8" x 20 GA. HAT CHANNELS @ 16" O.C. -— DOUBLE BAR JOIST - SEE STRUCTURAL 22 GA x 12" PREFINISHED GALVALUME FLAT SOFFIT PANELS 2 1/2" COLD ROLLED CHANNEL SEALANT -- R-13 CEILING INSULATION AS SPECIFED LAY-IN ACOUSTICAL TILE CEILING SYSTEM - SLOPED 8" CMU - SEE STRUCTURAL FOR REINFORCING

> CONCRETE FOOTING - SEE STRUCTURAL DRAWINGS

SEE STRUCTURAL DRAWINGS FOR REINFORCING

SEE DETAIL 004.2 —

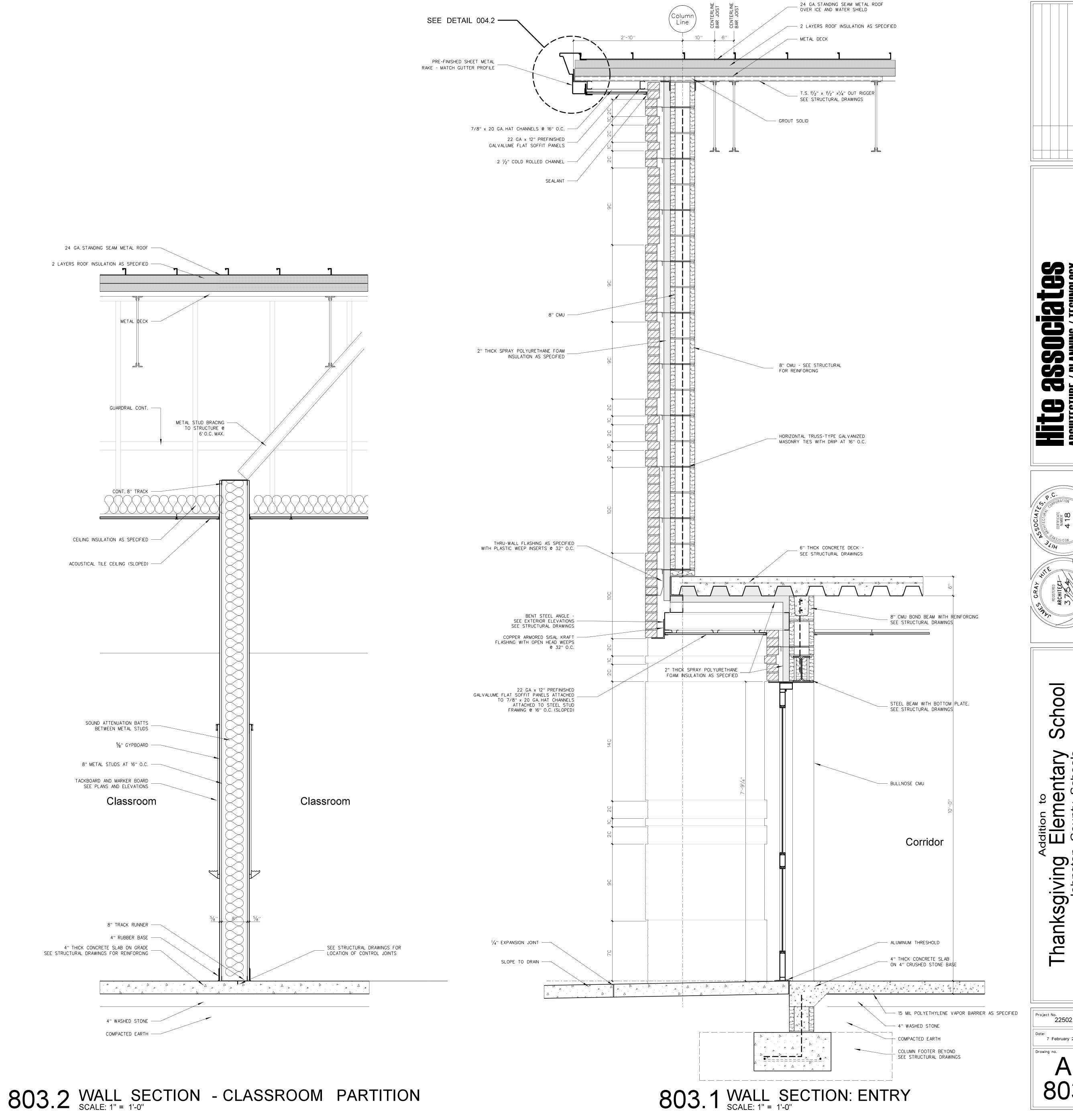
PRE-FINISHED SHEET

METAL RAKE

AIR SPACE - KEEP CLEAR OF MORTAR

HORIZONTAL TRUSS-TYPE GALVANIZED MASONRY TIES WITH DRIP AT 16" O.C. — 4" RUBBER BASE 2" THICK SPRAY POLYURETHANE FOAM INSULATION AS SPECIFIED — ¼" EXPANSION JOINT MATERIAL --- FINISH FLOOR AS SCHEDULED 4" THICK CONCRETE SLAB ON 4" CRUSHED STONE BASE EPDM FLASHING WITH PLASTIC INSERT WEEPS @ 32" O.C. FINISH GRADE (SEE SITE PLAN) 15 MIL POLYETHYLENE VAPOR BARRIER AS SPECIFIED FILL VOID SOLID BELOW FLASHING --- 4" WASHED STONE

-- COMPACTED EARTH \_ COLUMN FOOTER BEYOND SEE STRUCTURAL DRAWINGS · A A · A 



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804.2 WALL SECTION: EXISTING ENDWALL

T.S.  $1\frac{1}{2}$ " x  $1\frac{1}{2}$ " x $\frac{1}{4}$ " OUT RIGGER T.S.  $1\frac{1}{2}$ " x  $1\frac{1}{2}$ " x $\frac{1}{4}$ " OUT RIGGER SEE STRUCTURAL DRAWINGS SEE STRUCTURAL DRAWINGS SPECIAL 5" DEEP CANTILEVERS OVER PLATFORM SEE STRUCTURAL DRAWINGS STEEL ANGLE - SEE STRUCTURAL -EXISTING STEEL ANGLE AND T.S. TO REMAIN — EXISTING METAL RAKE TRIM \_ - EXISTING JOIST GIRDER BEYOND TO BE REMOVED EXISTING SOFFIT TO BE REMOVED ---NEW STEEL BEAM OR JOIST GIRDER ---EXISTING EXTERIOR END WALL ---EXISTING 8X8 TUBE STEEL COLUMN TO REMAIN GRIND SMOOTH AND PAINT AS SPECIFIED REMOVE EXISTING CMU BETWEEN CORRIDOR COLUMNS \_EXISTING METAL STUD AND \_ GUARDRAIL SYSTEM METAL STUD AND GUARDRAIL\_ SYSTEM - SEE A-805.1 6" THICK CONCRETE --- PROVIDE FLUSH TRANSITION SEE STRUCTURAL DRAWINGS \_\_\_\_\_ 6" THICK CONCRETE TO REMAIN SEE STRUCTURAL FOR REINFORCING FINISH FLOOR AS SCHEDULED — COMPOSITE GALVANIZED DECK -REMOVE EXISTING EXTERIOR END WALL BETWEEN CORRIDOR COLUMNS L==+--------LAY-IN ACOUSTICAL TILE CEILING SYSTEM EXISTING LAY-IN ACOUSTICAL TILE CEILING REMOVE EXISTING SOFFIT -EXISTING 8X8 TUBE STEEL COLUMN TO REMAIN GRIND SMOOTH AND PAINT AS SPECIFIED REMOVE EXISTING EXTERIOR END WALL BETWEEN CORRIDOR COLUMNS - REMOVE DOOR AND FRAME REMOVE VENEER AT CORRIDOR PREPARE SURFACE AS REQUIRED TO RECEIVE NEW FINISH AND PAINT AS SPECIFIED **Existing Corridor** New Corridor LINE OF BRICK VENEER BEYOND EXISTING 8X8 TUBE STEEL COLUMN -NEW 4" RUBBER BASE ----PROVIDE FLUSH TRANSITION FINISH FLOOR AS SCHEDULED — / 1/4" EXPANSION JOINT MATERIAL 4" THICK CONCRETE SLAB ON GRADE — NEW 4" RUBBER BASE SEE STRUCTURAL DRAWINGS FOR REINFORCING EXISTING SLAB ON GRADE 15 MIL POLYETHYLENE VAPOR BARRIER AS SPECIFIED -4" WASHED STONE — COMPACTED EARTH — EXISTING COLUMN FOOTER BEYOND SEE STRUCTURAL DRAWINGS 804.1 WALL SECTION: EXISTING ENDWALL SCALE: 1" = 1'-0"

EXISTING AND NEW METAL ROOFING
\_\_\_\_\_ SHALL HAVE A FLUSH TRANSITION.
\_\_\_\_ADJUST NEW STEEL ELEVATION AND/OR

THICKNESS OF NEW ROOF INSULATION AS REQUIRED

— EXPANSION JOINT

MATCHING 24 GA. STANDING — SEAM METAL ROOF

ICE AND WATER SHEILD OVER ENTIRE ROOF -

(2) LAYERS ROOF INSULATION AS SPECIFIED —

METAL DECK —

No. Date Revision

- EXISTING STANDING SEAM METAL ROOF

\_\_\_\_ EXISTING 2 LAYERS ROOF INSULATION

/--- METAL DECK

HITE ASSOCIATES ARCHITECTURE / PLANNING / TECHNOLOGY

REGISTERED

ARCHITECT

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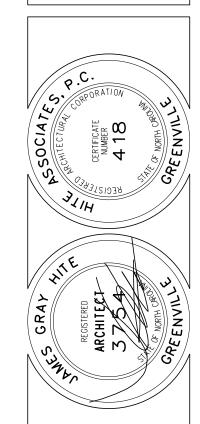
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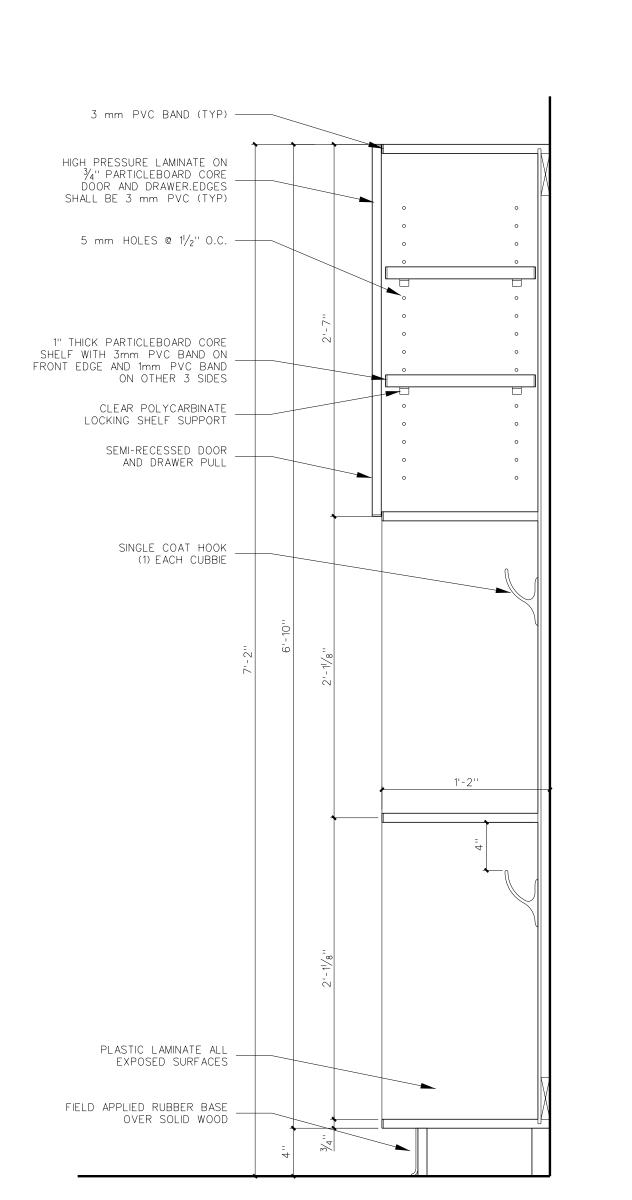
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School Thanksgiving Johnston

Project No. 22502 7 February 2025

Drawing no. 901



CONTINUOUS TOP

° SEE PLAN °

PLASTIC LAMINATE ALL EXPOSED SURFACES

3 mm PVC BAND (TYP) -

CLEAR POLYCARBINATE LOCKING SHELF SUPPORT

HIGH PRESSURE LAMINATE -ALL EXPOSED SURFACES -

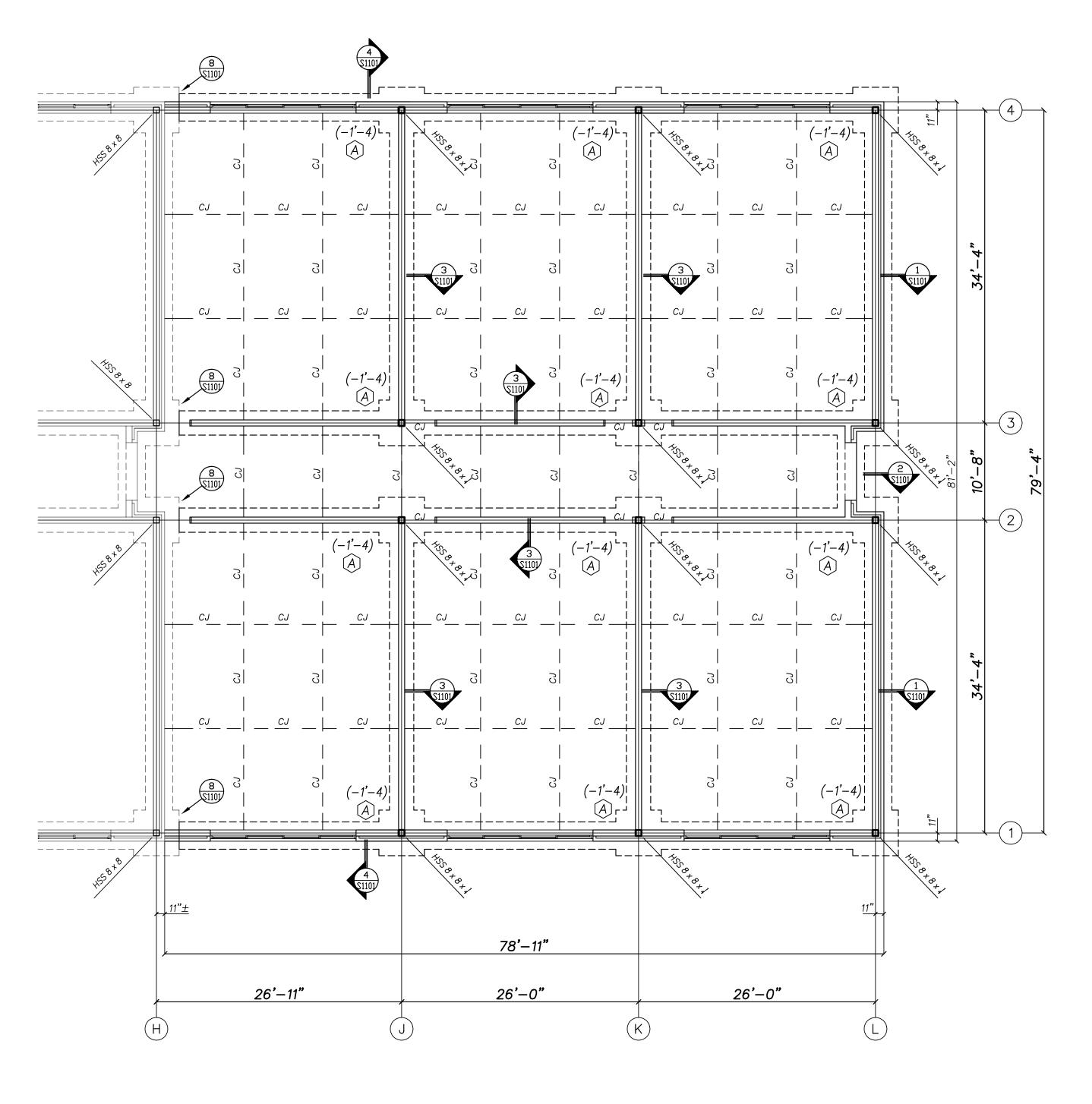
FIELD APPLIED RUBBER -BASE OVER SOLID WOOD -

PROVIDE SIMILAR TOE SPACE ALL BASE CABINET ENDS

901.1 SECTION @ BOOKCASE

1" THICK HIGH PRESSURE PLASTIC LAMINATE PARTICLEBOARD CORE SHELF WITH 3mm PVC EDGE BAND FORNT AND BACK WITH 1mm PVC EDGE BAND EACH SIDE

901.2 SECTION @ CUBBIES



# AREA 300 ADDITION FOUNDATION PART PLAN

l'' = 1'-0"

1.) FOOTING DESIGN BASED ON A SOIL BRG. CAPACITY OF 2500 PSF. (PER NOVA GEOTECH. REPORT, PROJECT NO. 10727—2019022) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF RECORD

IF UNSTABLE, ORGANIC, WEAK OR OTHERWISE UNACCEPTABLE SOIL CONDITIONS ARE ENCOUNTERED DURING EXCAVATIONS OR SUBSEQUENT GEOTECHNICAL INVESTIGATIONS. 2.) ELEV. NOTED (- ) ARE BELOW REFERENCE FINISHED FLOOR TO TOP OF FOOTING. (00.00)

3.) SLAB ON GRADE IS NORMAL WEIGHT CONCRETE WITH REINFORCED WITH 6x6 W1.4 x W1.4 WWM

ON A 4" NO. 57/67 WASHED STONE AND 15 MIL POLY VAPOR BARRIER, TYP. U.O.N. 4.) ALL CONCRETE SHALL BE A MINIMUM STRENGTH OF 3000 PSI MEETING ACI 301

AND ACI 318. ALL CONCRETE SHALL BE MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES SUBJECT TO

PUMPING SHALL BE TAKEN AT THE EXIT END OF THE PUMP AT THE ELEVATION OF PLACEMENT. (REFERENCE ACI MANUAL OF CONCRETE PRACTICE).

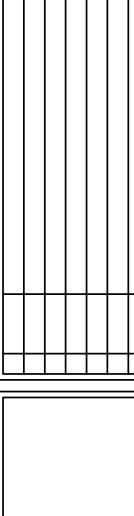
5.) ALL REINFORCING BARS SHALL BE GRADE 60 CONFORMING TO ASTM 615. LAP BARS WHERE REQUIRED USING CLASS B TENSION LAP SPLICES, OR 40 BAR DIAMETERS.

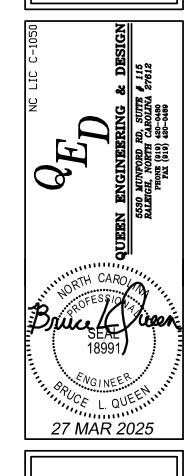
DEVELOPMENT LENGTHS SHALL BE CRSI MINIMUM UON. 6.) SEE S1101 FOR COLUMN FOOTING SCHEDULE AND ADDITIONAL NOTES THAT APPLY.

7.) REFERENCE ARCHITECTURAL AND PLUMBING DRAWINGS FOR COORDINATION OF SLOPED FLOORS AT FLOOR DRAINS, AND DEPRESSED FLOOR SLAB LOCATIONS.

8.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.

9.) CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS & ELEVATIONS AS REQUIRED FOR ALL APPLICABLE TRADES TO PRODUCE DRAWINGS.





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1.) PLATFORM SLAB SHALL BE 6" THICK, LIGHT WEIGHT CONCRETE
ON 3 x 16 GA. VLI GALVANIZED COMPOSITE FLOOR DECK.
ALL BEAMS SUPPORTING SLAB SHALL HAVE \(\frac{3}{2}\)"\(\text{\$\text{\$}}\)"\(\text{\$\text{\$}}\)"\(\text{\$\text{\$}}\)"
STUDS AT 12" o/c., TYPICAL.

STUDS AT 12" o/c., TYPICAL.

2.) SEE S1103 FOR METAL FLOOR DECK FASTENING PATTEREN.

3.) SEE S1103 FOR CMU LINTEL/BOND BEAM NOTES AND DETAILS.

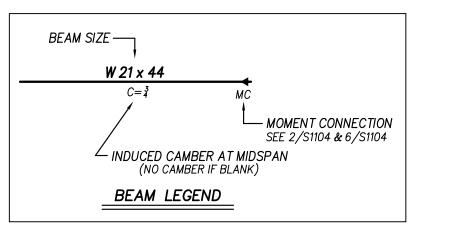
4.) REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATION OF ALL LINTELS.

5.) CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED FOR COMPOSITE DECK SPANS GREATER THAN 10'-6"

6.) LOCATE ALL WALLS AND MASONRY OPENINGS PER ARCHITECTURAL DRAWINGS.

7.) CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS & ELEVATIONS AS REQUIRED FOR ALL APPLICABLE TRADES TO PRODUCE DRAWINGS.

b'' = 1'-0''

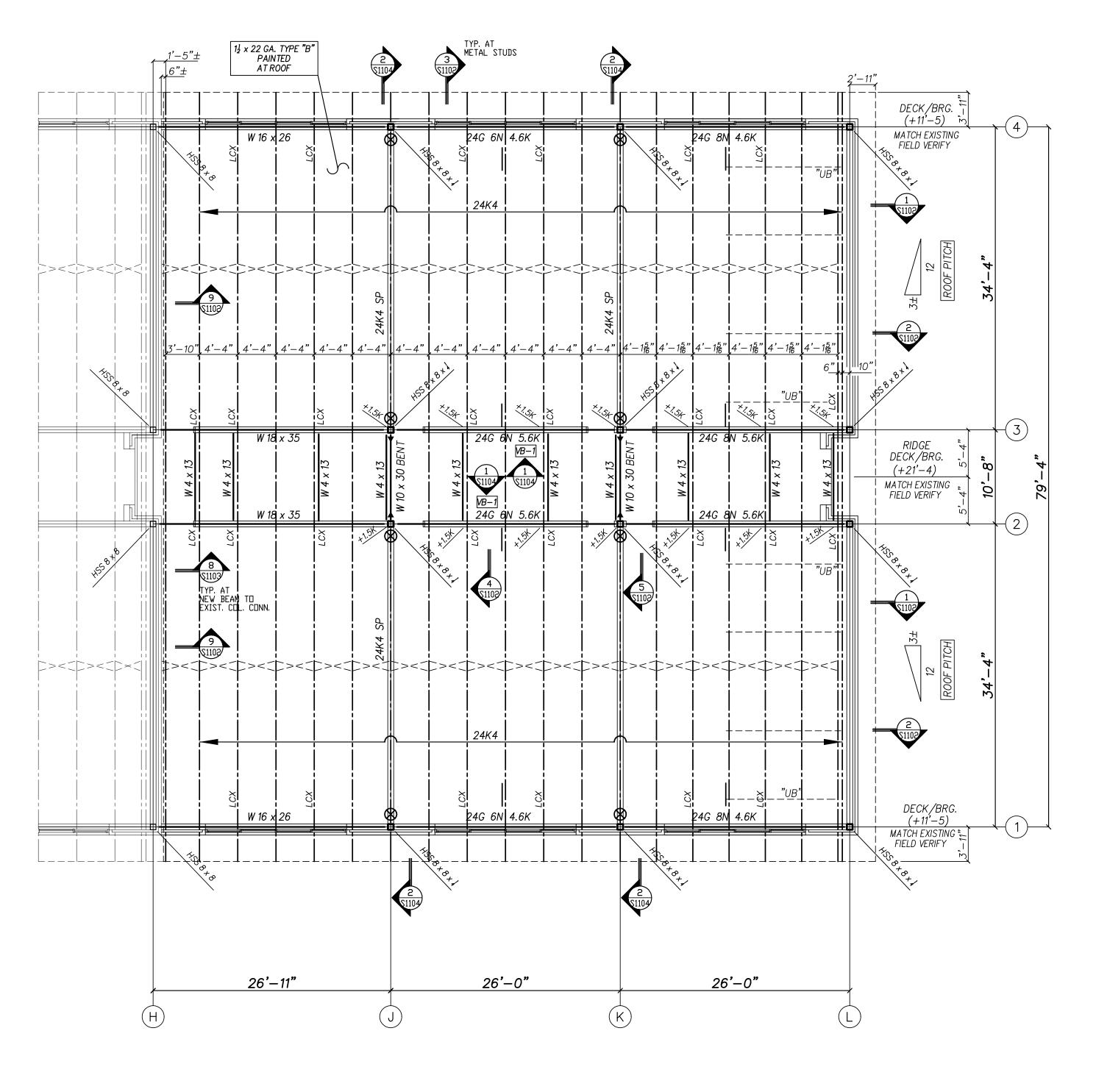


Project No.

Date:
27 MAR 2025

Date: 27 MAR 2025

Drawing no.



# AREA 300 ADDITION ROOF PART PLAN

FIRST BOTTOM CHORD PANEL POINT OF JOIST.

ROOF PART PLAN

1.) METAL ROOF DECK IS 1 1/2" × 22 GA TYPE "B" PAINTED M.R.D., TYP. U.O.N. FOR ATTACHMENT, SEE TYPICAL M.R.D. FASTENING DETAIL ON \$1103.

ELEV NOTED(+ ) ARE ABOVE REFERENCED FINISHED FLOOR.
 METAL ROOF DECK IS TO BE USED TO TRANSMIT LATERAL LOADS TO WALLS. SEE TYP. DECK FASTENING PATTERN ON S1103.

5.) JOIST SUPPLIER SHALL DESIGN JOISTS FOR ADDITIONAL POINT
LOADS FROM ROOF TOP MECHANICAL UNITS. CONTRACTOR SHALL
VERIFY SIZE AND WEIGHT OF UNITS AND REPORT
THIS INFORMATION TO THE STRUCTURAL ENGINEER OF RECORD, IF REQUIRED.

6.) ALL WIDE FLANGE BEAMS TO BE "V50" STEEL.
7.) SEE S1201 FOR NET UPLIFT DESIGN LOADING FOR ALL JOISTS AND GIRDERS.
8.) "UB" INDICATES UPLIFT BRIDGING TO BE LOCATED AT THE

9.) NO FABRICATION OR ERECTION SHALL COMMENCE PRIOR TO THE APPROVAL OF ALL STRUCTURAL STEEL SHOP DRAWINGS BY THE ENGINEER OF RECORD.

10.) UNLESS OTHERWISE NOTED, ALL JOIST GIRDERS SUPPORTING W4 PIPING SUPPORT BEAMS SHALL BE DESIGNED BY THEIR SUPPLIER TO SUPPORT

AN ADDITIONAL 1.5 KIPS UNFACTORED SERVICE LOAD AT EACH W4 SUPPORT POINT.

11.) JOIST MANUFACTURER SHALL ADJUST JOIST SEATS AS REQUIRED TO MAINTAIN DECK BEARING ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS.

12.) ▲ - INDICATES BEAM TO COLUMN MOMENT CONNECTION.
 SEE SECTIONS 2/S1104 AND 6/S1104 FOR MOMENT CONNECTION DETAILS.
 13.) COORDINATE ALL ELEVATIONS AND LOCATIONS OF ALL W4 BEAMS WITH ARCH.
 AND PM&E DRAWINGS.

14.) COORDINATE AND VERIFY ALL DECK EDGE LOCATIONS AND DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
15.) SEE 3/S1102 & 4/S1102 FOR LCX CONFIGURATION.

16.) 

— INDICATES THAT JOIST AND GIRDER SUPPLIER SHALL DESIGN
JOIST WITH DESIGN END MOMENT OF 500 IN—K AT END OF JOIST.
SEE SECTION 2/S1104 FOR ADDITIONAL NOTES THAT APPLY.
TYPICAL AT "SP" JOIST DESIGNATION.

17.) CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS & ELEVATIONS AS REQUIRED FOR ALL APPLICABLE TRADES TO PRODUCE DRAWINGS.

C=¾ MC

MOMENT CONNECTION
SEE 2/S1104 & 6/S1104

INDUCED CAMBER AT MIDSPAN
(NO CAMBER IF BLANK)

BEAM LEGEND

13.) COOR
AND
14.) COOR
WITH
15.) SEE
16.) 

17.) CON

BEAM SIZE —

W 21 x 44

HITE 3500 Meridian Drive / Greenville, NC 27858 / tel (252) 757-03

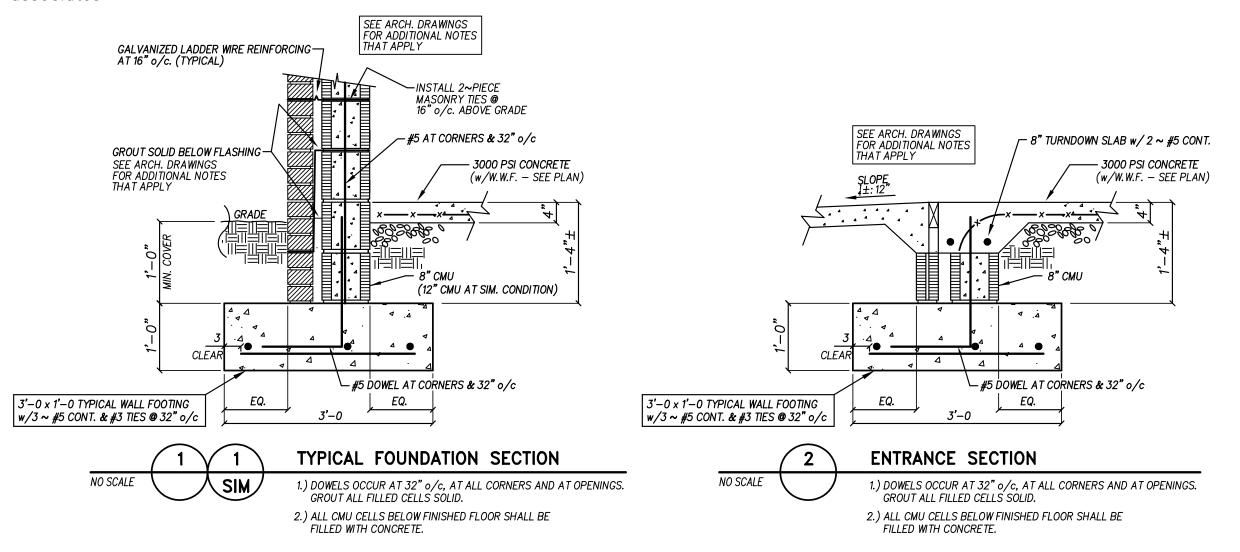
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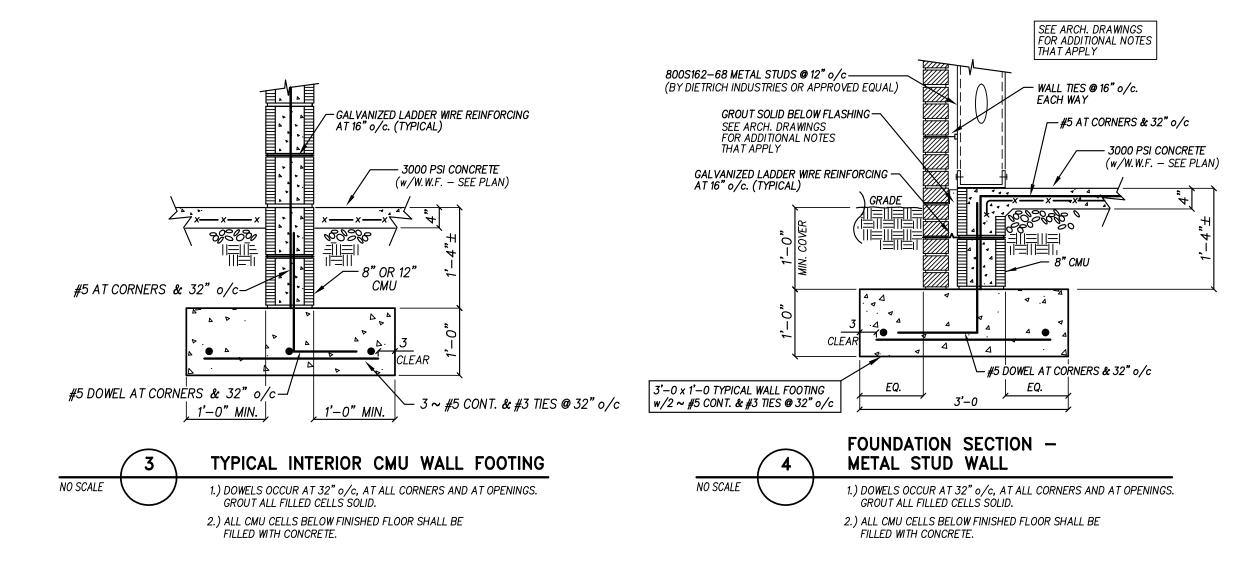
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Johnston County Schools
Lynch Road / Johnston County / North Car

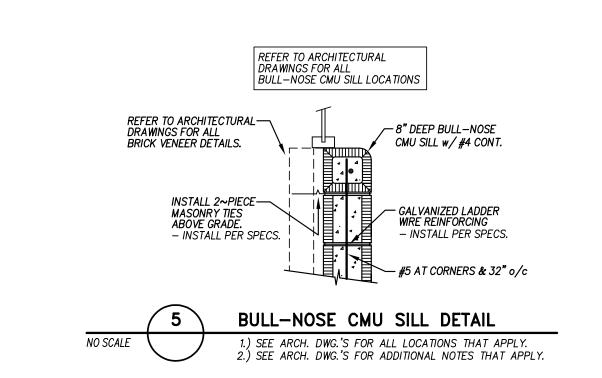
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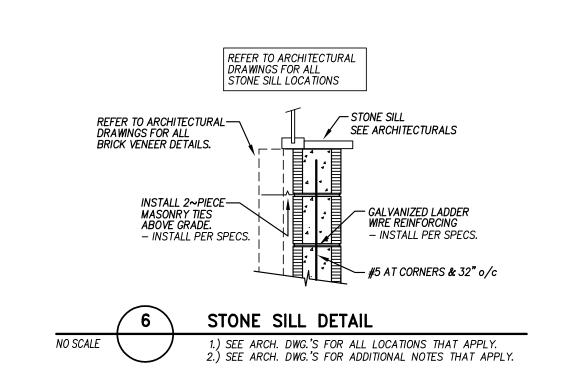
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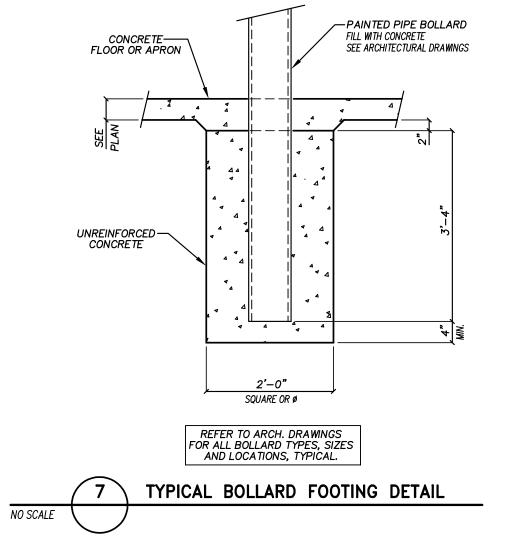
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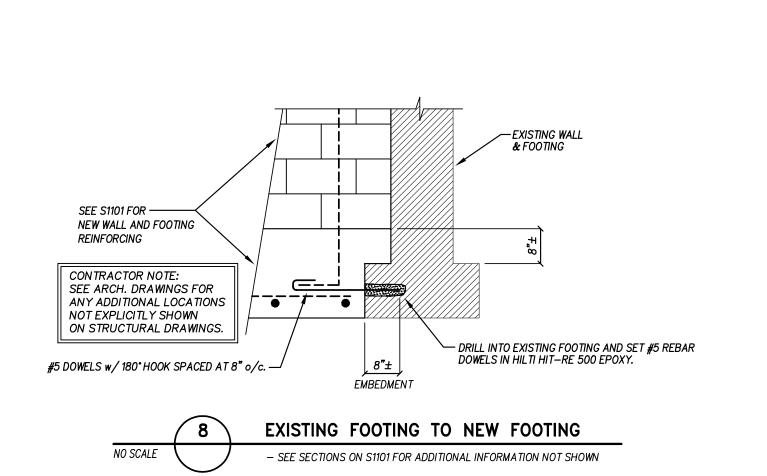




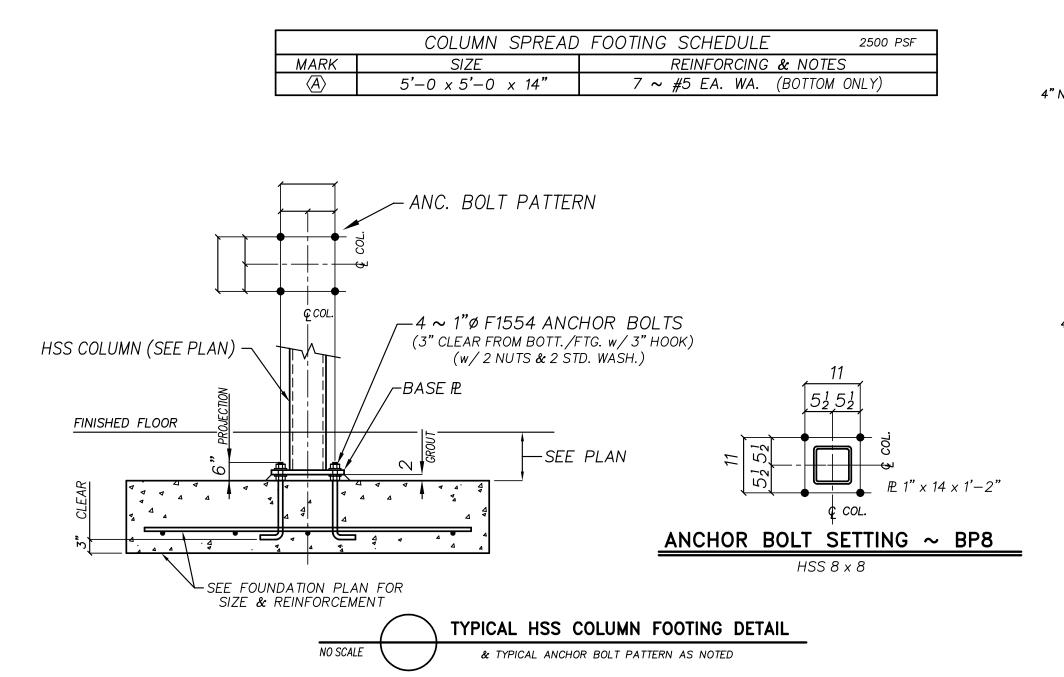


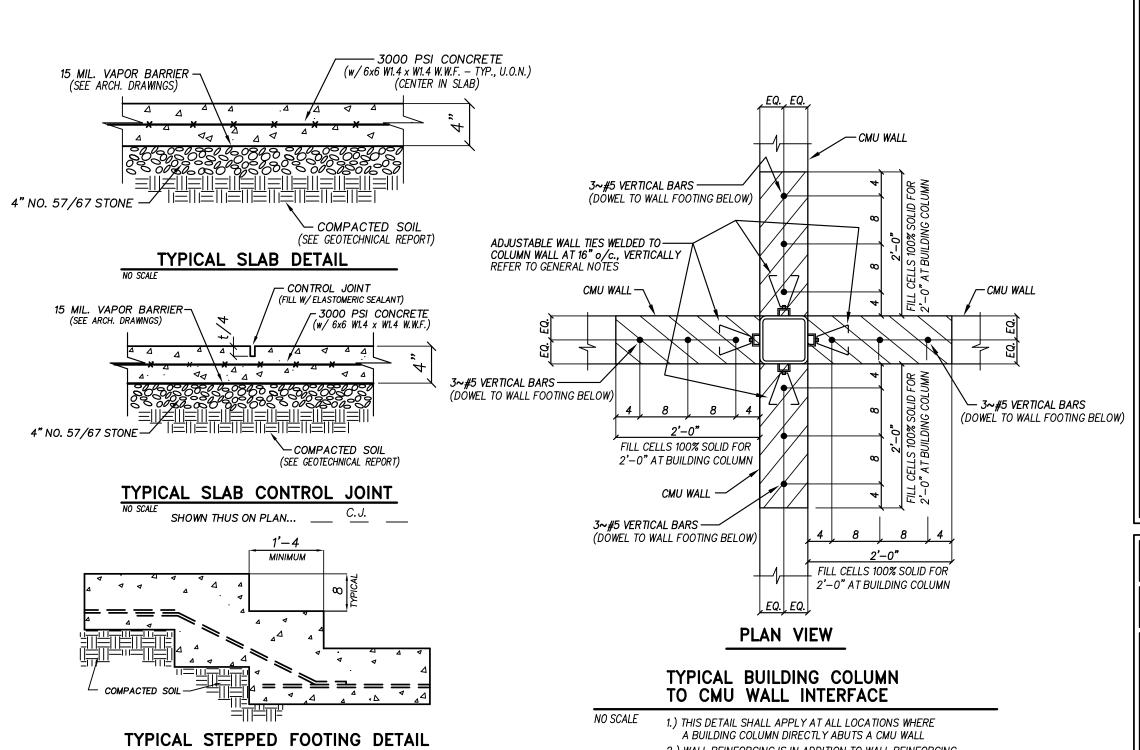






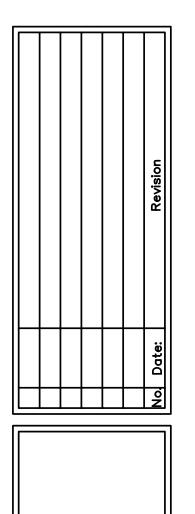




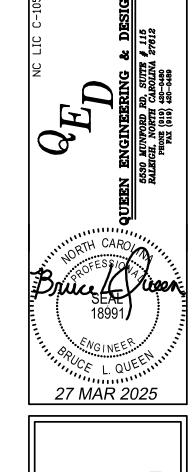


NO SCALE IF REQUIRED TO MEET EARTH COVER REQUIREMENTS

WALL REINFORCING IS IN ADDITION TO WALL REINFORCING SHOWN ON PLANS AND OTHER DETAILS THAT APPLY.



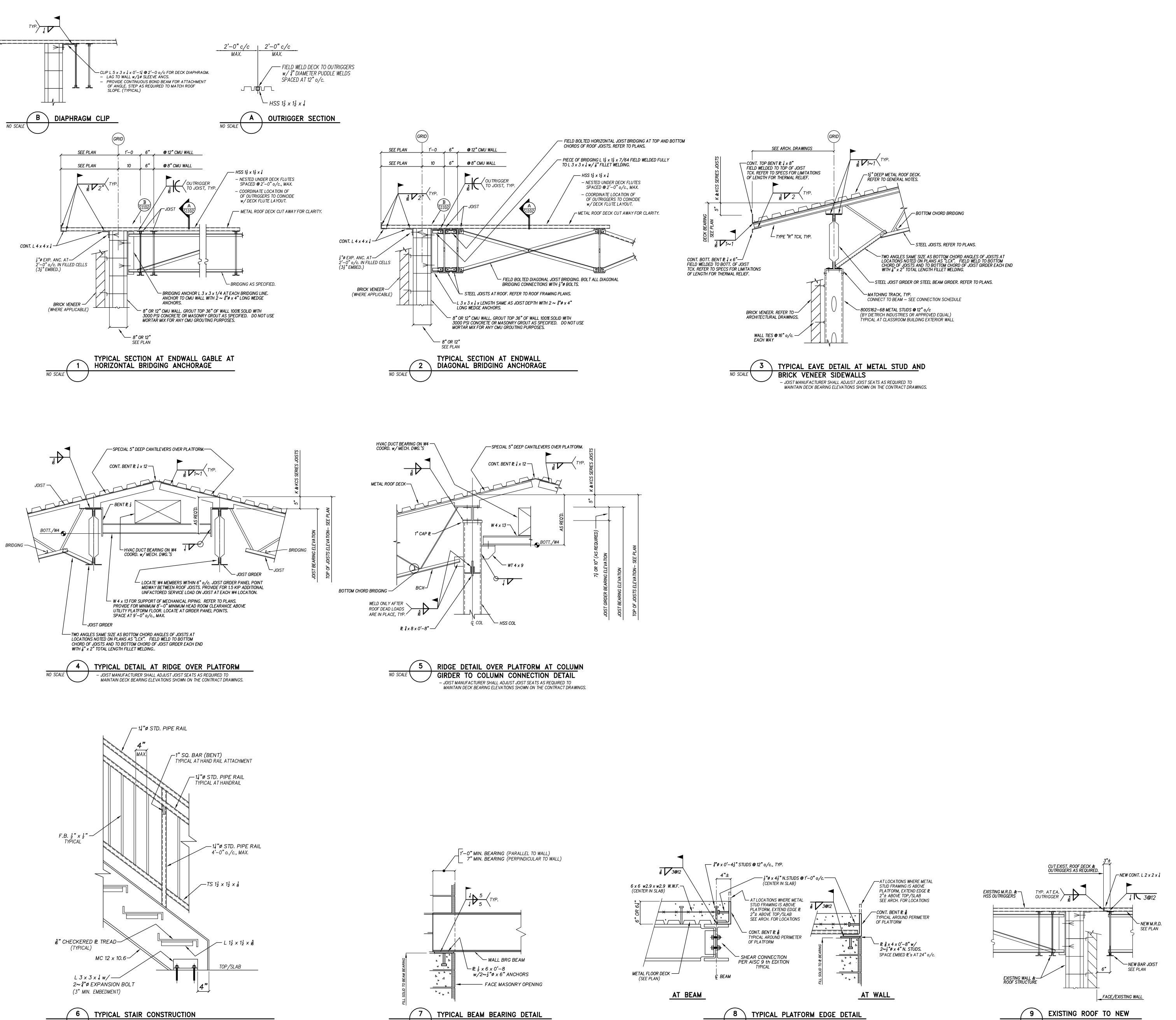


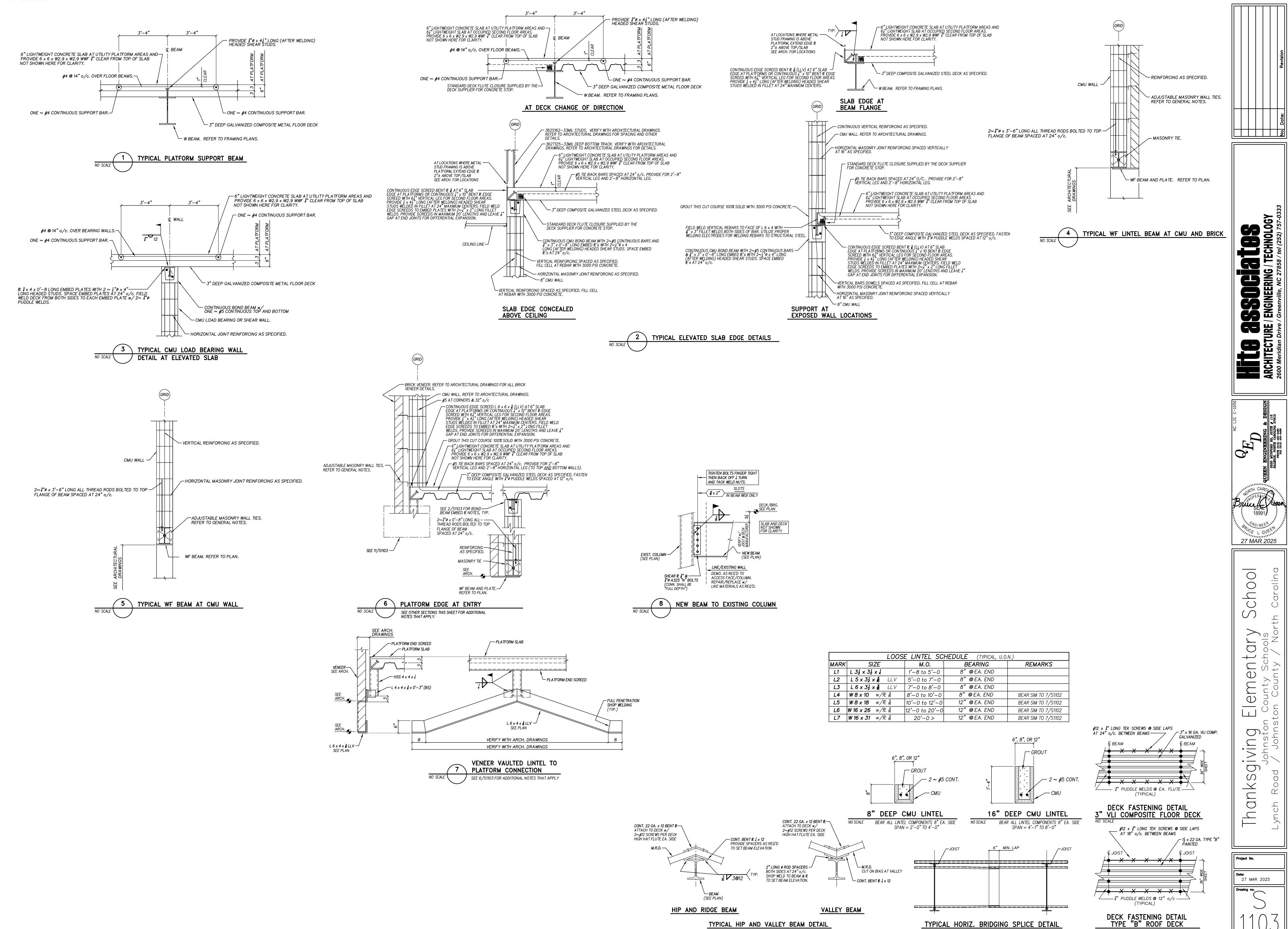


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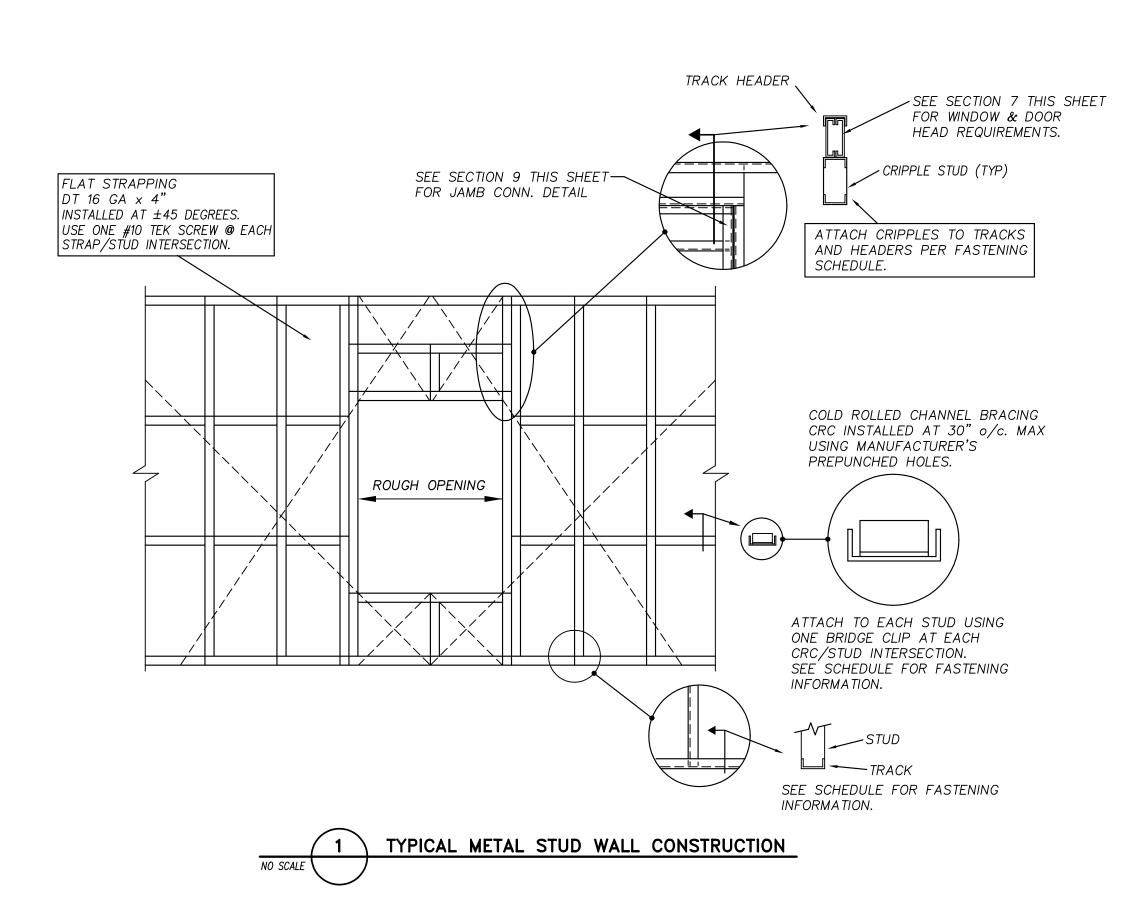
SEE ARCHITECTURAL DRAWINGS FOR STAIR LOCATION AND ADDITIONAL NOTES THAT APPLY.
 STAIR CONFIGURATION TO BE VERIFIED BY STAIR MANUFACTURER. ABOVE SECTION IS SCHEMATICAL IN NATURE, AND IS ONLY INCLUDED AS A GUIDELINE. STAIR

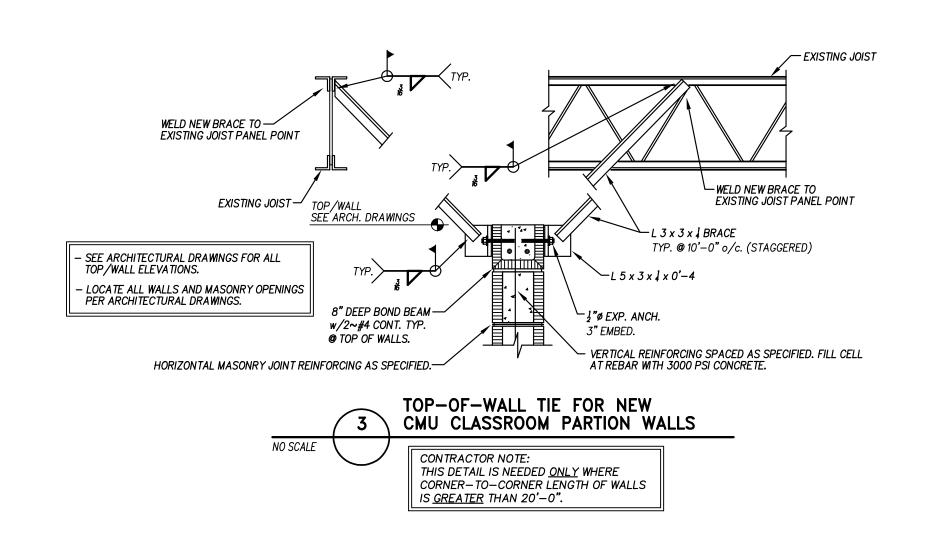
MANUFACTURER SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.

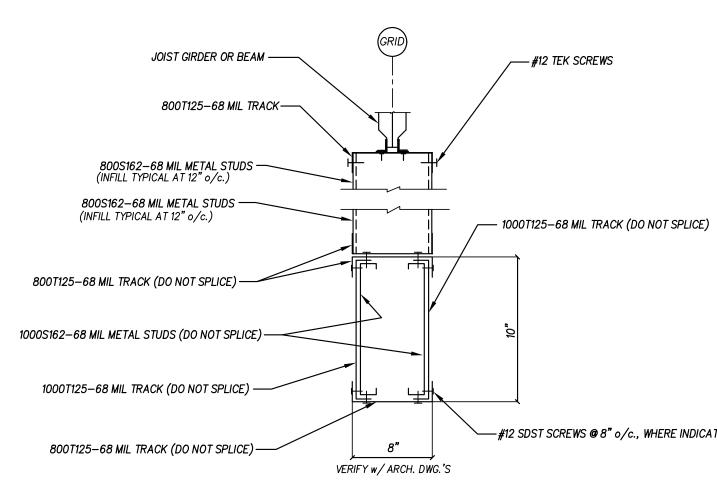


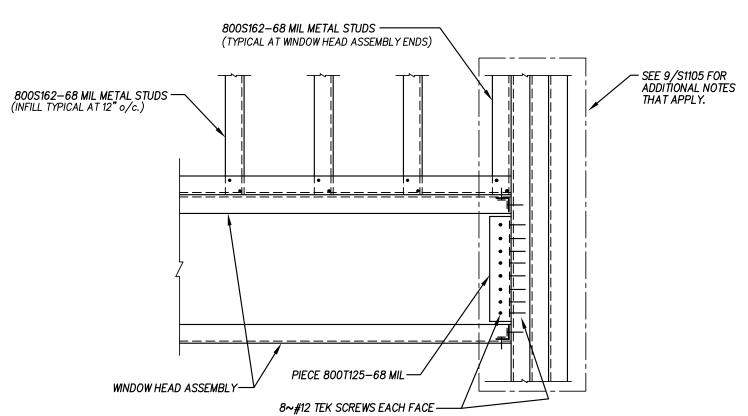


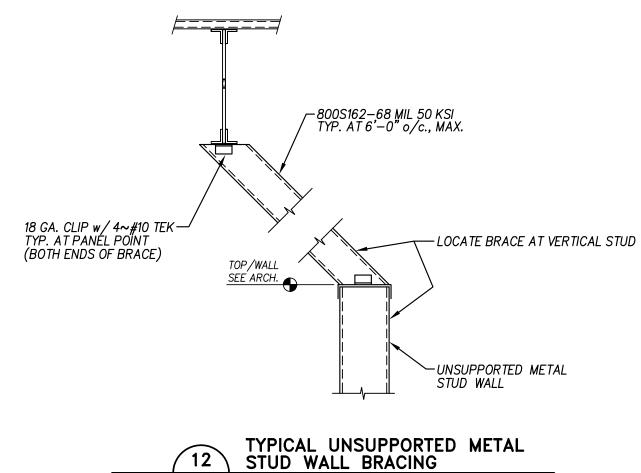
WELD AT ALL CONTACT POINTS

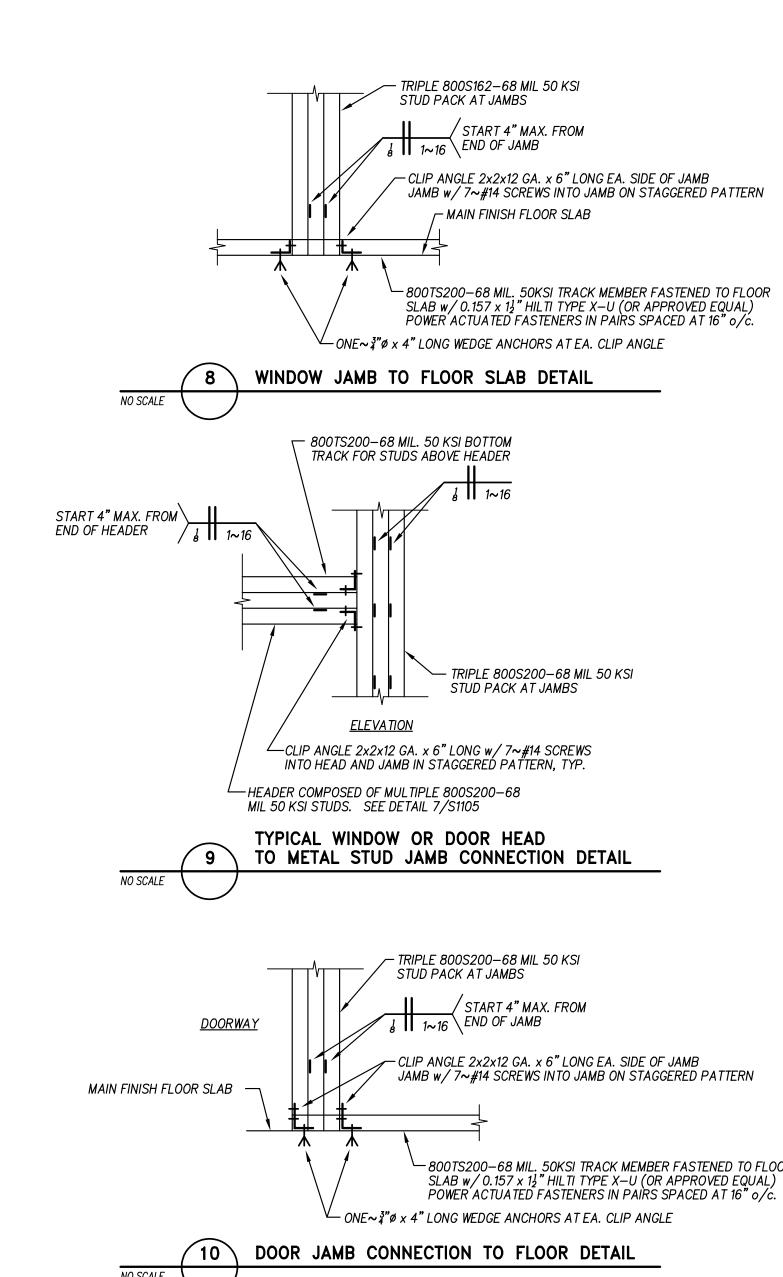


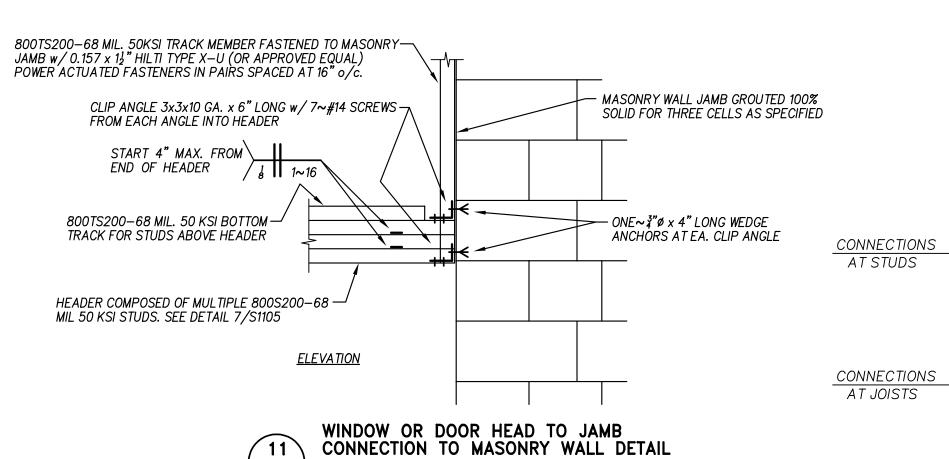




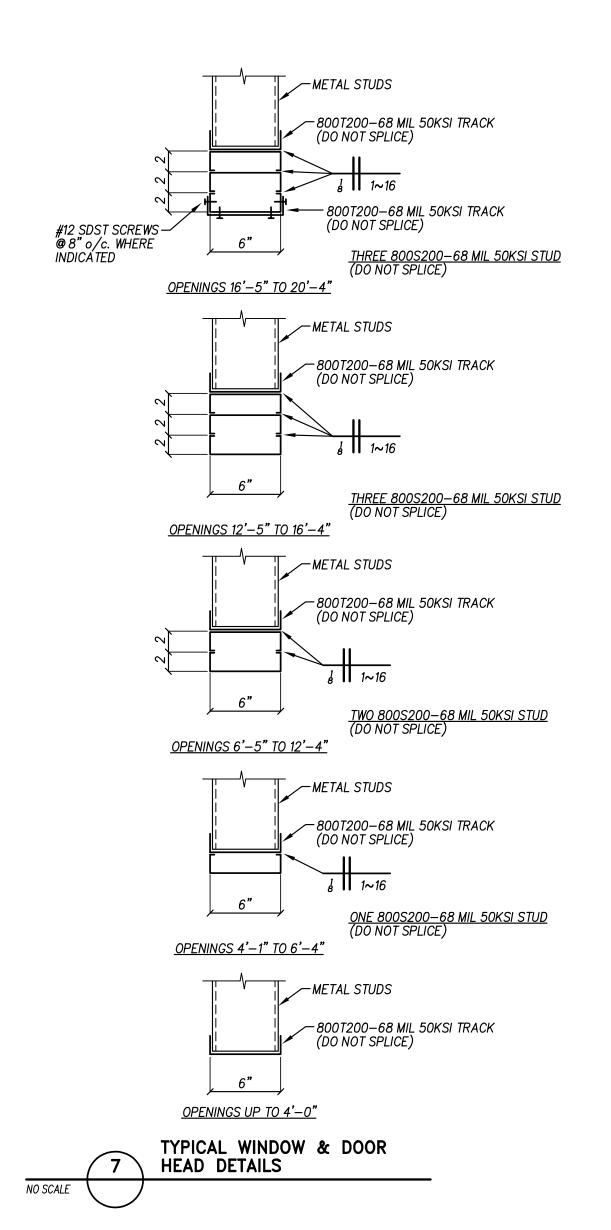








(IF REQUIRED)



METAL STUD GENERAL NOTES

ALL METAL STUD MATERIAL SHALL BE MANUFACTURED BY DIETRICH INDUSTRIES OR APPROVED EQUAL.

CONTRACTOR SHALL INSTALL ALL COMPONENTS IN STRICT COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND DETAILS

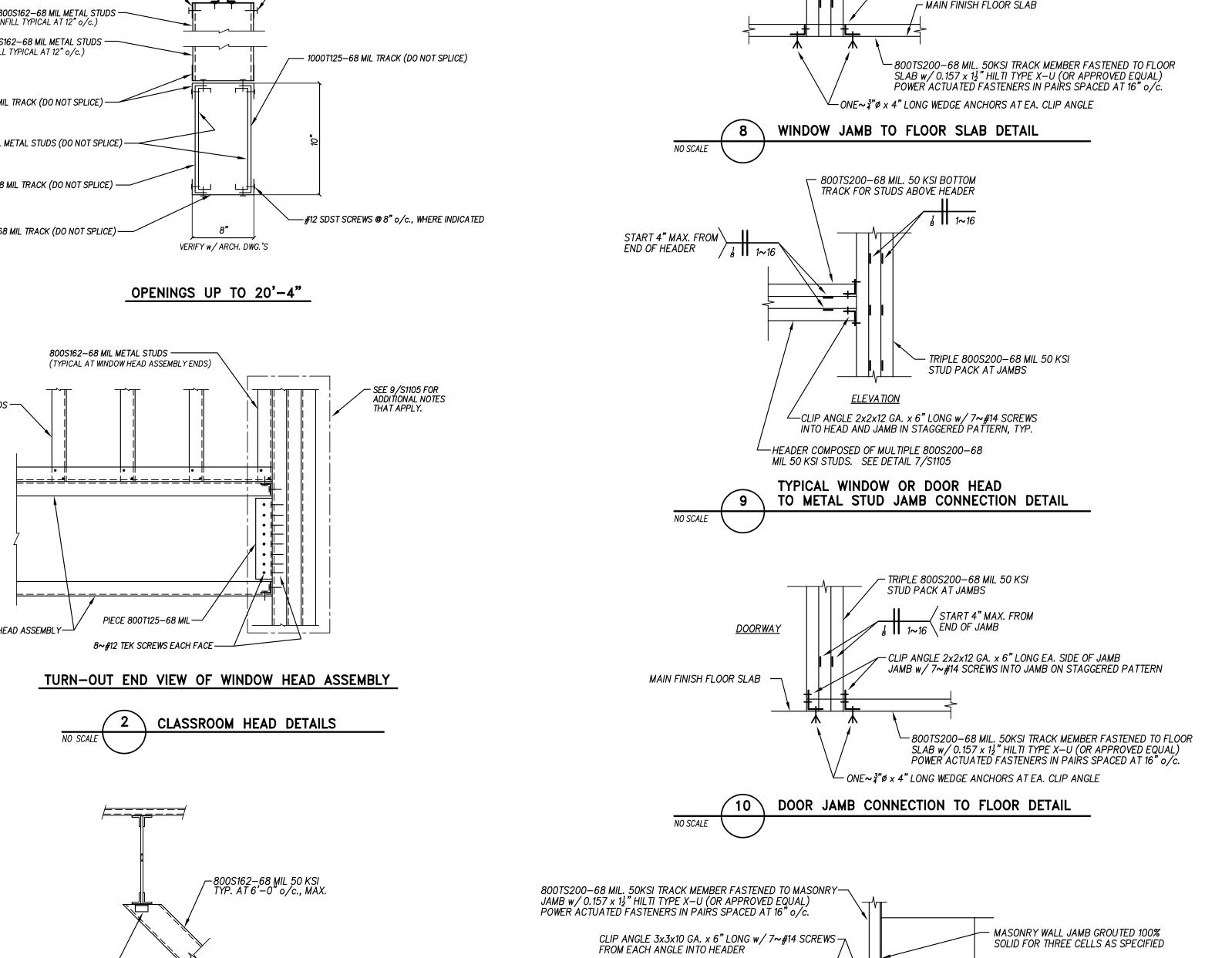
PRIOR TO CONSTRUCTION. 4. ALL METAL STUD MEMBERS SHALL HAVE Fy = 33 KSI, MINIMUM.

NOTE: ALL METAL S MANUFACTU	STUDS AND METAL SYSTEM TO BE IRED BY DIETRICH INDUSTRIES OR EQUAL			
	SCHEDULE #10 TEK SCREWS (U.N.O)			
CONNECTION TYPE	COMMENTS			
BOTTOM TRACK TO FLOOR	2 ~ POWDER DRIVEN FASTENERS @ 24" o/c			
STUD TO BOTTOM TRACK	ONE SCREW IN EA. FLANGE, U.O.N.			
STUD TO TOP TRACK	ONE SCREW IN EA. FLANGE, U.O.N.			
PLYWOOD TO STUDS	SCREW @ 6" o/c ALONG EA. STUD			
TOP PL TO TRACK	#10 TEK AT 12" o/c.			
FC TO STUD	4∼#10 TEK			
FC TO SLAB	½"ø EXP. ANCH.			
JOIST TO TOP TRACK (BEARING)	(2) SCREWS IN FLANGE			
PLYWOOD FLOORING TO JOIST	SCREW @ 12" o/c ALONG EA. JOIST			
BRIDGING TO JOISTS	16 GA. CLIP ANGLE w/ 4 SCREWS			
BLOCKING TO JOISTS	16 GA. CLIP ANGLE w/ 4 SCREWS			
TREAD TO VERTICAL STUD	(4) #10 TEK SCREWS IN WEB			
WOOD SHEATHING	8d, 12" o/c AT SUPPORTS, 6" o/c. AT EDGES			
HEADER TO HEADER	#10 TEK AT 12" o/c. STAGGERED (WEB TO WEB)			
HEADER TO CRIPPLE	SA18 GA. w/ 4#8 TEK PER LEG			
CRIPPLE TO LOWER TRACK	2∼#8 TEK EA. FL.			
HEADER TO BEARING STUD	SA 18 GA. w/4~#8 TEK PER LEG			
BEARING STUD TO CRC BRACE	BRIDGE CLIP			
BEARING STUD TO BRIDGE CLIP	4∼#10 TEK			
BRIDGE CLIP TO CRC	4∼#10 TEK			
STUD TO WALL	2 SCREWS IN EA. WEB @ 16" o/c			
JOIST TO JOIST INTERFACE	ONE SCREW IN EA. FLANGE			
PLYWOOD FLOORING TO JOIST	SCREW @ 12" o/c ALONG EA. JOIST			
BRIDGING TO JOISTS	16 GA. CLIP ANGLE w/ 4 SCREWS			
BLOCKING TO JOISTS	16 GA. CLIP ANGLE w/ 4 SCREWS			

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2. CONTINUOUS WALL FOOTINGS SHALL BE PLACED UPON BEARING SOIL THAT IS EITHER UNIMPROVED OR IMPROVED TO THE SAME ALLOWABLE NET BEARING VALUE AS THE CONTIGUOUS COLUMN FOOTINGS.

3. SITE CONDITIONS MAY DICTATE THAT THE SOIL IMPROVEMENT MEASURES BE TRANSITIONED OUT FROM THE AREAS OF UNIMPROVED OR SHALLOW IMPROVED DEPTHS. SUCH TRANSITIONING SHALL BE AS DIRECTED BY THE GEOTECHNICAL LABORATORY AT THE TIME OF CONSTRUCTION.

4. SITE PREPARATION AND PLACEMENT OF ENGINEERED COMPACTED FILI AND THE INTERMEDIATE SOIL IMPROVEMENT WORKS SHALL BE MONITORED BY THE GEOTECHNICAL LABORATORY. ALL NECESSARY PREPARATORY STRIPPING, CUTTING, PROOF ROLLING, AND FILLING AND IMPROVEMENT OPERATIONS SHALL BE SO MONITORED.

5. ALL FILL INSIDE THE BUILDING AND TO 10' OUTSIDE THE BUILDING INCLUDING RAMPS, STOOPS, AND STEPS SHALL BE CLEAN SELECT MATERIAL FREE OF DELETERIOUS MATERIALS SUCH AS WOOD, ROOTS, TRASH, OR OTHER EXTRANEOUS MATERIALS. PLACE FILL TO BE COMPACTED IN 9" LIFTS MEASURED LOOSE AND COMPACT FACH LIFT TO 95% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS MEASURED BY ASTM D698. COMPACT THE TOP THREE 9" LIFTS TO 100% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT AS MEASURED BY ASTM D698

6. ALL FOOTING EXCAVATIONS SHALL BE APPROVED BY THE GEOTECHNICAL LABORATORY PRIOR TO PLACING FOOTING CONCRETE.

7. FOOTING ELEVATIONS SHALL NOT BE RAISED OR LOWERED UNLESS SPECIFICALLY APPROVED BY THE ARCHITECT.

8. FOOTINGS MAY BE CARRIED TO LOWER ELEVATION WHERE DIRECTED BY THE ARCHITECT.

9. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONAL LOCATIONS OF MASONRY WALLS AND PARTITIONS THAT REQUIRE CONTINUOUS WALL FOOTINGS AND/OR MONOLITHIC THICKENED SLAB FOOTINGS FOR

10. CONSTRUCTION JOINTS IN CONTINUOUS WALL FOOTINGS SHALL BE MADE MIDWAY BETWEEN COLUMNS AND AT LEAST 4' FROM THE INTERSECTION OF ANOTHER WALL FOOTING.

11. COLUMN FOOTINGS IN LINE WITH WALL FOOTINGS SHALL BE PLACED MONOLITHICALLY AND FLUSH TOP WITH THE CONTIGUOUS WALLS

12. STEPPED WALL FOOTINGS IF REQUIRED SHALL START OR TERMINATE AT LEAST 4' FROM A COLUMN FOOTING, WALL CORNER, OR WALL

13. AT LOCATIONS WHERE SLAB BLOCK OUTS ARE REQUIRED AWAITING THE STEFL COLUMN FRECTION PROVIDE FOR A SLAB TURNDOWN OF 8" MINIMUM CONCRETE THICKNESS AROUND THE BLOCKOUT TO RETAIN THE SUPPORTING SOIL UNDER THE SLAB. AT THE CONTRACTORS OPTION HIS SOIL RETAINING TURNDOWN MAY BE CONSTRUCTED WITH 8" CMU FILLED 100% SOLID WITH 3000 PSI CONCRETE.

14. FOUNDATIONS SHALL BE PLACED ONLY ON APPROVED NATURAL UNDISTURBED SOIL STRATA OR ON PROPERLY PLACED ENGINEERED ONTROLLED COMPACTED IMPROVED FILL UNDER THE SUPERVISION O THE GEOTECHNICAL LABORATORY.

## <u>CONCRETE</u>

1. CONCRETE SHALL DEVELOP THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:

FOOTINGS AND PEDESTALS INTERIOR SLARS ON GRADE FILL FOR MASONRY UNITS 3000 PS OTHER INTERIOR CONCRETE EXPOSED EXTERIOR CONCRETE 4000 PSI SUSPENDED SLABS ON METAL DECK - 3000 PSI MASONRY CAVITY WALL FILL – 3000 KSI

2. CONCRETE FOR FOOTINGS AND SLABS ON GRADE SHALL BE REGULAR STONE CONCRETE.

CONCRETE FOR SLABS SUSPENDED ON COMPOSITE METAL DECK SHALL BE STRUCTURAL LIGHTWEIGHT CONCRETE WITH MAXIMUM AIR UNIT WEIGHT

4. CONCRETE FOR FILL IN CONCRETE MASONRY BLOCK CELLS, BOND BEAMS, LINTEL BLOCKS, AND CAVITY WALL FILL BELOW FLOOR IN EXTERIOR WALLS AND OTHER MASONRY UNITS SHALL BE FINE AGGREGATE CONCRETE MASONRY GROUT CONFORMING TO ASTM C476 OR 3000 PSI CONCRETE WITH 3/8" MAXIMUM COARSE AGGREGATE SIZE AT CONTRACTORS OPTION 3000 PSI SELF CONSOLIDATING CONCRETE GROUT MAY BE UTILIZED FOR MASONRY GROUTING PURPOSES WITH PROPER PRECAUTIONS TAKEN FOR THE HYDROSTATIC PRESSURE ISSUES.

5. UNLESS SELF CONSOLIDATING CONCRETE GROUT IS UTILIZED THE CONCRETE MIX FOR CONCRETE MASONRY BLOCK AND CAVITY WALL GROU SHALL BE PROPORTIONED AT THE PLANT FOR A HIGH SLUMP OF 8" TO 11" TO FACILITATE PLACEMENT AND TO ACCOMMODATE WATER ABSORPTION BY THE MASONRY UNITS. HIGH SLUMP SHALL BE ACHIEVED WHILE KEEPING THE WATER CEMENT RATIO IN THE NORMA RANGE FOR A 3000 PSI MIX. THIS WILL REQUIRE ADDITIONAL CEMENT IN THE BATCH TO GO ALONG WITH THE WATER ADDED FOR THE SLUMP

6. MORTAR MIX SHALL NOT BE ALLOWED FOR ANY BLOCK MASONRY FILL REQUIREMENTS

7. CONCRETE TO BE PERMANENTLY EXPOSED TO WEATHER SHALL HAVE 5% (+/-1%) AIR ENTRAINMENT.

8. CONCRETE NOT PERMANENTLY EXPOSED TO THE WEATHER SHALL NOT HAVE AIR ADDED BY ENTRAINMENT. THIS REQUIREMENT SHALL BE VERIFIED AND REPORTED BY LABORATORY TESTS.

9. ALL CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," ACI 318.

10. OBSERVE ALL AND STRICTLY FOLLOW ALL ACI 305 AND 306 REQUIREMENTS RESPECTIVELY FOR PROTECTION OF CONCRETE IN HOT

11. ALL CONCRETE SLAB WORK SHALL BE PROPERLY CURED IN CONFORMANCE WITH ACI 308. EITHER WATER CURING. WATERPROOF PAPER CURING PLASTIC SHEET, OR SPRAY-ON SEALING MATERIALS METHOD MAY BI USED PROVIDED THAT THE METHOD CHOSEN HAS NO DETRIMENTAL EFFECT ON THE FINAL FINISH SPECIFIED FOR THE RESPECTIVE AREAS. THE PROPOSED CURING METHOD TO BE USED SHALL BE APPROVED BY THE ARCHITECT.

12. BUILDING SLABS ON GRADE SHALL BE 4" MINIMUM THICKNESS.

13. BUILDING SLABS ON COMPOSITE METAL FLOOR DECK IF REQUIRED AT THE UTILITY PLATFORM AREAS SHALL BE 6" MINIMUM THICKNESS NECESSARY FOR ACHIEVING THE REQUIRED 1 HOUR FIRE SEPARATION RATING.

14. PLACE 1/4" PRE-FORMED, IMPREGNATED EXPANSION JOINT FILLER FULL DEPTH OF SLAB ON GRADE AT ABUTTING WALL SURFACES UNLESS

15. PROVIDE CONSTRUCTION OR CONTROL JOINTS IN SLABS ON GRADE IN LOCATIONS AS SHOWN ON FOUNDATION PLAN OR AT OTHER LOCATIONS APPROVED OR REQUIRED BY THE ARCHITECT. BUT SPACING OF JOINTS SHALL NOT EXCEED 12' IN ANY DIRECTION.

16. THE TYPE OF JOINT USED WHETHER CONTROL JOINT OR CONSTRUCTION JOINT IS THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE NOTED 17. SAW JOINTS AT CONTROL JOINTS IN THE CONCRETE SLABS SHALL BE

MADE AS SOON AS THE CONCRETE HAS SUFFICIENT STRENGTH TO PREVENT SPALLING OF THE JOINT DUE TO THE ACTION OF THE SAW BUT IN NO CASE GREATER THAN 4 HOURS AFTER INITIAL PLACEMENT OF THE CONCRETE.

18. SLAB JOINT FILLER SHALL BE OF THE TYPE COMPATIBLE WITH THE FINAL FLOOR COVERING USED. SLAB JOINTS UNDER PERMANENT PARTITIONS OR CASE WORK NEED NOT BE FILLED.

19. CHAMFER EXPOSED EDGES AND CORNERS OF CONCRETE 3/4" UNLESS

20. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED FLOOR FINAL FINISHES AND PROVIDE NECESSARY SLOPES, DEPRESSIONS, AND SLAB FINISH AS REQUIRED TO ACCEPT THE SPECIFIED FINAL FINISHES.

21. PROVIDE A 2 17/32" SLAB DEPRESSION IN THE AREAS REQUIRING THE WOOD PLAY FLOOR. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATIONS OF THE WOOD PLAY FLOOR.

#### **REINFORCING STEEL**

1. BARS SHALL BE ROLLED FROM NEW BILLET-STEEL CONFORMING TO "SPECIFICATION FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT," ASTM A615, GRADE 60.

2. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185.

3. DETAIL AND FABRICATE REINFORCING STEEL IN ACCORDANCE WITH "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315.

4. REINFORCING STEEL SHALL BE IN PLACE AND REVIEWED BY THE ARCHITECT PRIOR TO PLACING CONCRETE.

5. PROVIDE WWF IN FLAT SHEETS. ROLLED WWF WILL NOT BE ACCEPTED ON THIS PROJECT.

6. LAP ALL WWF END SPLICES TWO FULL MESHES AND ALL SIDE LAP

SPLICES ONE FULL MESH AND TIE OFF WITH STANDARD TIE WIRES. 7. PLACE ONE LAYER OF 6 X 6 - W2.9 X W2.9 WWF AT 3/4" CLEAR FROM TOP OF ELEVATED SLABS ON COMPOSITE METAL DECK AT SECOND FLOOR AND UTILITY PLATFORM SLABS. TIE WWF TO REINFORCING STEEL OVER STEEL BEAMS TO PREVENT MOVEMENT WHILE PLACING THE FRESH CONCRETE. IN ADDITION PROVIDE ONE LINE OF CONTINUOUS SLAB

BOLSTERS AT MID SPAN OF ALL ELEVATED SLABS TO SUPPORT WWF IN

HE PROPER POSITION AND TIE OFF TO PREVENT MOVEMENT DURING

CONCRETE PLACEMENT OPERATIONS. 8. FABRICATE REBARS IN CONTINUOUS FOOTINGS, WALLS, BOND BEAMS, AND MONOLITHIC TURNED DOWN SLABS TO LONGEST PRACTICAL

9. LAP HORIZONTAL REBAR SPLICES A MINIMUM OF 40 BAR DIAMETERS BUT A MINIMUM OF 24" UNLESS OTHERWISE NOTED. PLAN REBAR SPLICES TO OCCUR AT POINTS OF MINIMUM STRESS UNLESS OTHERWISE

10. LAP VERTICAL REBAR SPLICES INCLUDING DOWELS FROM FOOTINGS IN CMU WALLS A MINIMUM OF 60 BAR DIAMETERS.

11. BARS IN INDIVIDUAL COLUMN SPREAD FOOTINGS SHALL NOT BE 12. TERMINATE CONTINUOUS BARS IN WALL FOOTINGS, WALLS, BOND BEAMS

AND TURNED DOWN SLABS, WITH A STANDARD 90 DEGREE HOOK AT DISCONTINUOUS ENDS, CORNERS, AND INTERSECTIONS.

13. AT LOCATIONS REQUIRING VERTICAL DOWELS INTO FOOTINGS AND ELEVATED SLABS, THE PLACEMENT OF THE DOWELS SHALL MATCH THE SIZE AND CLOSELY MATCH THE LOCATION OF THE VERTICAL WALL REBARS REQUIRING THE DOWELS.

14. ALL DOWELS SHALL TERMINATE IN THE FOOTING OR ELEVATED SLAB

WITH A STANDARD ACI 90 OR 180 DEGREE HOOK AS APPROPRIATE UNLESS SPECIFICALLY SHOWN OTHERWISE. DOWELS SHALL LAP THEIR MATCHING VERTICAL REBAR 60 BAR DIAMETERS.

15. PROVIDE THE FOLLOWING CLEARANCES FROM REBARS TO CONCRETE FACE UNLESS OTHERWISE NOTED ON DRAWINGS:

EARTH FORMS WALL FORMS TOP OF SLAB

SLAB FORMS CMU WYTHE — CENTER BARS IN CENTER OF WYTHE 16. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #6 VERTICAL

REINFORCING AT 24" OC FOR EXTERIOR MASONRY WALLS. 17. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #5 VERTICAL REINFORCING AT 48" OC FOR INTERIOR MASONRY WALLS.

18. REFER TO "CONCRETE AND BRICK MASONRY" SECTION BELOW FOR SPECIAL REINFORCING FOR THE 12" AND 8" CMU FIRE WALLS.

19. PROVIDE INDUSTRY APPROVED REBAR CENTERING DEVICES FOR HOLDING VERTICAL REINFORCING BARS SECURELY IN THE CENTER OF THE CMU

20. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

# CONCRETE AND BRICK MASONRY

1. CONCRETE MASONRY UNITS SHALL BE LIGHTWEIGHT OR BLENDED LIGHTWEIGHT UNITS CONFORMING TO ASTM C90 WITH A COMPRESSIVE STRENGTH OF 1900 PSI MINIMUM TESTED IN ACCORDANCE WITH ASTM

2. BRICK VENEER UNIT SHALL BE FULLY FIRED VITRIFIED CLAY UNITS AS SELECTED BY THE ARCHITECT.

3. ALL MORTAR SHALL BE TYPE "S" PER PROPORTION SPECIFICATION

4. CONCRETE MASONRY DESIGN f'm = 1500 PSI.

5. WALLS SHALL BE ACCURATELY LAID OUT AND CONSTRUCTED SO THAT NO WALL VARIES MORE THAN 1/4" FROM ITS DESIGNATED LOCATION. THIS VARIATION LIMIT SHALL APPLY TO WALL PLUMBNESS AND WALL

6. ALL BED AND HEAD JOINTS SHALL BE FULLY MORTARED. HORIZONTAL JOINT REINFORCING FOR ALL SINGLE WYTHE CONCRETE MASONRY WALLS SHALL BE HEAVY DUTY GALVANIZED TRUSS TYPE HORIZONTAL JOINT REINFORCEMENT BY HOHMAN AND BARNARD OR APPROVED EQUAL. HORIZONTAL JOINT REINFORCEMENT SHALL BE SPACED AT 16" OC MAXIMUM.

8. THE TRUSS TYPE HORIZONTAL JOINT REINFORCING SHALL HAVE 3/16" SIDE RODS AND #9 DIAGONAL CROSS RODS. LAP ALL REINFORCEMENT JOINTS A MINIMUM OF 12".

9. HORIZONTAL JOINT REINFORCING FOR ALL MULTIPLE WYTHE EXTERIOR MASONRY WALLS SHALL BE GALVANIZED HEAVY DUTY TRUSS TYPE HORIZONTAL JOINT REINFORCEMENT BY HOHMAN AND BARNARD OR APPROVED EQUAL WITH 3/16" SIDE RODS AND #9 DIAGONAL CROSS RODS FOR THE CMU WYTHE WITH INTEGRAL DOUBLE EYE AND ADJUSTABLE 1/4" DIAMETER PINTLE BRICK TIE SPACED AT 24" OC

10. PROVIDE PREFABRICATED TEE AND CORNER PIECES AT WALL INTERSECTIONS.

11. ALL MASONRY WALLS SHALL BE BONDED AT CORNERS UNLESS OTHERWISE NOTED ON THE PLANS. REFER TO ARCHITECTURAL DRAWINGS FOR CORNER AND TEE WALL INTERSECTION REQUIREMENTS AT MASONRY PARTITIONS AND LOAD BEARING WALLS.

12. ALL CMU WALLS SHALL BE TIED TO ALL CONTACT FACES OF ALL STEEL

COLUMNS WITH FIELD WELDED HEAVY DUTY ADJUSTABLE TIES AS NOTED ON THE DRAWINGS. PROVIDE MINIMUM 97 MIL GALVANIZED STAMPED STEEL ANCHORS WITH AN INTEGRAL VERTICAL SLOT TO LIMIT HORIZONTAL MOVEMENT OF THE TRIANGULAR WIRE TIE TO 1/16". DO NOT USE THE BENT WIRE TYPE ANCHORS TO THE COLUMN.

13. ALL CMU WALLS SHALL BE FASTENED TO THE TOP AND BOTTOM FLANGES OF EMBEDDED STEEL BEAMS WITH THE 3/4" DIAMETER X 2'-0" LONG ALL THREAD ROD DOWELS SPACED AT 24" OC OR AS NOTED ON THE

14. PROVIDE VERTICAL CRACK CONTROL JOINTS IN ALL MASONRY WALLS AT INTERVALS SHOWN ON THE ARCHITECTURAL DRAWINGS. CONTROL JOINT INTERVALS SHALL NOT EXCEED 32

15. UNLESS OTHERWISE NOTED LINTELS FOR OPENINGS UP TO 6'-4" IN CONCRETE MASONRY WALLS (CMU) SHALL BE BOND BEAM TYPE LINTELS OF PROPER LENGTH TO PROVIDE 16" BEARING EACH END. PROVIDE 1 - #5 CONTINUOUS TOP AND BOTTOM FOR 8" X 8" CMU BOND BEAM LINTELS" FOR OPENINGS UP TO 6'-4".

PROVIDE 2 - #5 CONTINUOUS TOP AND BOTTOM FOR 12" X 8" CMU BOND BEAM LINTELS FOR OPENINGS UP TO 6'-4". WHERE A STEEL COLUMN OCCURS IN INTERIOR AND EXTERIOR CMU WALLS THAT PRECLUDE THE PROPER 16" MINIMUM BEARING LENGTH OF HE BOND BEAM TYPE LINTEL A STEEL BEAM AND PLATE LINTEL SHALL

BE PROVIDED AND SHALL BE CONNECTED DIRECTLY TO THE STEEL COLUMN. REFER TO THE PLANS AND/OR LINTEL SCHEDULE FOR ALL 16. ALL DOOR, WINDOW, AND OPENING JAMBS IN CMU WALLS SHALL BE

FILLED WITH 3000 PSI CONCRETE FOR 2'-0" WIDTH (3 CELLS) FROM LINTEL BEARING DOWN TO FLOOR. PROVIDE 1 - #6 BAR IN EACH

17. ALL CONCRETE MASONRY UNITS BELOW FINISH MAIN FLOOR AND/OR BELOW FINISH GRADE SHALL BE 100% GROUTED SOLID WITH FINE AGGREGATE CONCRETE MASONRY GROUT CONFORMING TO ASTM C476 OR 3000 PSI CONCRETE WITH 3/8" MAXIMUM COARSE AGGREGATE SIZE. AT CONTRACTORS OPTION 3000 PSI SELF CONSOLIDATING CONCRETE GROUT MAY BE UTILIZED FOR MASONRY GROUTING PURPOSES WITH PROPER PRECAUTIONS TAKEN FOR THE HYDROSTATIC PRESSURE ISSUES.

18. IN ADDITION IN ALL MULTIPLE WYTHE MASONRY WALLS THE CAVITY COLLAR JOINT SPACE BETWEEN WYTHES BELOW GRADE SHALL BE GROUTED SOLID AT THE TIME THE BRICK WYTHE IS BEING LAID WITH FINE AGGREGATE CONCRETE MASONRY GROUT CONFORMING TO ASTM C476 OR 3000 PSI CONCRETE WITH 3/8" MAXIMUM COARSE AGGREGATE SIZE, AT CONTRACTORS OPTION 3000 PSI SFLF CONSOLIDATING CONCRETI GROUT MAY BE UTILIZED FOR MASONRY GROUTING PURPOSES WITH PROPER PRECAUTIONS TAKEN FOR THE HYDROSTATIC PRESSURE ISSUES.

19. UNLESS OTHERWISE NOTED PROVIDE WEEP HOLES AT 32" OC MAXIMUM ABOVE ALL WALL FLASHING LOCATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS OF ALL FLASHING. 20. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE TEMPORARY

BRACING AND GUYING OF ALL MASONRY WALLS TO PROVIDE FOR SAFETY OF THE STRUCTURE AND WORKMEN. BRACING TO REMAIN UNTIL NO LONGER REQUIRED FOR SAFE SUPPORT OF WALLS.

21. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #6 VERTICAL REINFORCING AT 24" OC FOR EXTERIOR MASONRY WALLS.

22. UNLESS OTHERWISE NOTED OR SPECIFIED PROVIDE #5 VERTICAL REINFORCING AT 48" OC FOR INTERIOR MASONRY WALLS.

23. UNLESS OTHERWISE NOTED ALL PROVIDE #6 VERTICAL REINFORCING

SPACED AT 16" OC FULL HEIGHT FOR ALL FIREWALLS. 24. TERMINATE CONTINUOUS BARS IN WALL FOOTINGS, WALLS, BOND BEAMS AND TURNED DOWN SLABS WITH A STANDARD 90° HOOK AT DISCONTINUOUS ENDS. CORNERS. AND INTERSECTIONS. CONTINUOUS WALL FOOTING REBARS TERMINATING IN COLUMN FOOTINGS SHALL EXTEND FULLY TO THE FAR FACE OF THE COLUMN FOOTING AND TERMINATE WITH A STANDARD 90° HOOK.

25. AT LOCATIONS REQUIRING VERTICAL WALL REINFORCING, PROVIDE MATCHING DOWELS INTO FOOTINGS AND ELEVATED SLABS. THE PLACEMENT OF THE DOWELS SHALL MATCH THE SIZE AND CLOSELY MATCH THE LOCATION OF THE VERTICAL WALL REBARS REQUIRING THE DOWELS.

# STRUCTURAL STEEL

AND A490 BOLTS."

1. STEEL WIDE FLANGE SHAPES SHALL CONFORM TO STRUCTURAL STEEL ASTM A992,  $F_{y} = 50$  KSI,  $F_{u} = 65$  KSI. STEEL CHANNELS, PLATES, ANGLES, BARS, AND RODS - ASTM A36, Fy = 36 KSI, Fu = 58 KSI.PIPE COLUMNS – ASTM A53, GRADE B, Fy = 35 KSI, Fu = 60 KSI. BOLTS - ASTM A325. FLAT WASHERS - ASTM F436. WELDS - AWS CLASS E70 LOW HYDROGEN ELECTRODES. TUBE COLUMNS - ASTM A500. GRADE B. Fv = 46 KSI. Fu = 58 KSI. COLUMN ANCHOR RODS - ASTM F1554 GRADE 36. HEADED SHEAR STUDS - ASTM A108.

ALL STEEL WORK SHALL CONFORM TO "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS - ALLOWABLE STRESS DESIGN" AND THE AISC CODE OF STANDARD PRACTICE.

3. CONNECTION BOLTS SHALL BE 3/4" DIAMETER ASTM A325 BOLTS WITH PROPER HARDENED WASHERS AND HEX NUTS UNLESS OTHERWISE NOTED. ALL BOLTS AND INSTALLATION PROCEDURES SHALL BE IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING A325

4. UNLESS OTHERWISE NOTED ALL CONNECTION BOLTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.

5. INSTALL A SUITABLE HARDENED WASHER UNDER THE HEAD OR NUT, WHICHEVER IS USED AS THE TURNED ELEMENT FOR TIGHTENING AND OVER ALL EXPOSED SLOTTED OR OVERSIZED HOLES.

6. UNLESS OTHERWISE NOTED ON THE PLANS ALL CONNECTION BOLTS SHALL BE DESIGNED AS BEARING TYPE WITH TREADS IN THE SHEAR

7. ALL WELDING SHALL BE DONE BY WELDING OPERATORS CERTIFIED JOB. ACCORDING TO AWS D1. FOR THE WELDING POSITIONS AND WELDING EQUIPMENT BEING USED FOR MAKING THE CONNECTIONS REQUIRED FOR 8. UNLESS OTHERWISE NOTED MASONRY SUPPORTED BEAMS BEARING

PERPENDICULAR TO MASONRY WALLS SHALL BEAR A MINIMUM OF 6" ON SOLID MASONRY AT EXPOSED 8" CMU WALLS AND 8" ON SOLID MASONRY AT CONCEALED 8" CMU WALLS AND 8" ON SOLID MASONRY AT 12" CMU WALLS. MASONRY SUPPORTED BEAMS AND PLATE LINTELS BEARING PARALLEL TO MASONRY WALLS SHALL BEAR A MINIMUM OF 12" ON SOLID MASONRY.

9. ALL COPES, CUTS, BLOCKS, NOTCHES SHALL HAVE SMOOTH RE-ENTRANT CORNERS OF 1/2" MINIMUM RADIUS. 10. RETURN ALL WELDS AT CORNERS A MINIMUM OF TWICE THE NOMINAL

11. PROVIDE HOLES FOR BLOCKING AND NAILER BOLTS AS REQUIRED BY ARCHITECTURAL DRAWINGS.

12. STRUCTURAL STEEL SHALL RECEIVE ONE COAT OF GREY OXIDE PAINT OF 2 MIL DFT. SURFACE PREPARATION SHALL BE POWER TOOL CLEANING CONFORMING TO SSPC-SP3.

13. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADEQUATE TEMPORARY BRACING AND GLIYING OF STEEL FRAMING AND LOAD BEARING WALLS TO PROVIDE FOR SAFETY OF THE STRUCTURE AND WORKMEN. BRACING TO REMAIN UNTIL NO LONGER REQUIRED FOR SAFE SUPPORT OF FRAME.

14. REFER TO BEAM SHORING SCHEDULE FOR REQUIRED TEMPORARY SHORING REQUIREMENTS OF COMPOSITE BEAMS AND LINTEL BEAMS. 15. COLUMN CAP AND BASE PLATES SHALL BE FULLY WELDED ALL AROUND

TO COLUMN SHAFT WITH 5/16" FILLET WELDING UNLESS OTHERWISE 16. ALL COLUMNS SHALL HAVE A MINIMUM OF 4 ANCHOR RODS SET ON A

SQUARE PATTERN 17. ALL COLUMN CAP PLATES SUPPORTING OR BEING CONNECTED TO OTHER MEMBERS SHALL BE 3/4" MINIMUM THICKNESS.

18. ALL OTHER COLUMN CAP PLATES NOT SUPPORTING OR BEING CONNECTED TO OTHER MEMBERS SHALL BE CAPPED WITH 1/2" MINIMUM THICKNESS. 19. SHEAR TAB PLATES ATTACHED TO COLUMN OR BEAMS SHALL BE 1/2

MINIMUM THICKNESS AND SHALL BE WELDED TO THE SUPPORT MEMBER

WITH 5/16" CONTINUOUS FILLET WELDS BOTH SIDES. 20. STABILIZER PLATES FOR JOIST BOTTOM CHORDS AT COLUMNS OR BEAMS SHALL BE 3/4" X 8" X 0'-8" MINIMUM AND SHALL BE SHOP WELDED

TO COLUMN OR BEAM WITH 5/16" CONTINUOUS FILLET WELDS BOTH SIDES. 21. STABILIZER PLATES FOR JOIST GIRDER BOTTOM CHORDS AT COLUMNS OR BEAMS SHALL BE 3/4" X 8" X 0'-8" MINIMUM AND SHALL BE SHOP

WELDED TO COLUMN OR BEAM WITH 5/16" CONTINUOUS FILLET WELDS BOTH SIDES. 22. UNLESS OTHERWISE NOTED PROVIDE 2" NOMINAL GROUT THICKNESS UNDER COLUMN BASE PLATES TO ALLOW FOR A HEAVY HEX LEVELING NUT AND STANDARD FLAT WASHER TO BE PLACED ON EACH ANCHOR BOLD ON THE UNDERSIDE OF THE COLUMN BASE PLATE FOR PRECISION LEVELING AND PLUMBING THE COLUMN. PROVIDE A STANDARD FLAT WASHER UNDER A HEAVY HEX CLAMPING NUT ON TOP OF THE BASE

PLATE FOR EACH ANCHOR BOLT. 23. ALL LINTEL ANGLES, BEAMS AND PLATES IN EXTERIOR WALLS SHALL BE HOT DIP GALVANIZED TO G60 STANDARDS AFTER FABRICATION. ALL INTERMITTENT WELDS AND OTHER SEAMS ON BEAM AND PLATE

LINTELS SHALL BE SEALED. 24. PROVIDE 3/4" X 4 1/2" LONG HEADED FIELD WELDED SHEAR STUDS FOR ALL BEAMS SUPPORTING 3" COMPOSITE METAL DECK. SPACE HEADED SHEAR STUDS AT 12" OC AND PLACE STUDS IN THE STRONG POSITION OF THE DECK FLUTES

25. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. <u>STEEL JOISTS AND JOIST GIRDERS</u> 1. STEEL JOISTS SHALL CONFORM TO STEEL JOIST INSTITUTE (SJI)

"K", "KCS", "LH" SERIES JOISTS AND ACCESSORIES. 2. JOIST GIRDERS SHALL CONFORM TO SJI "G" SERIES GIRDERS AND

3. BEARING DEPTH OF SLOPING "K" AND "KCS" SERIES JOISTS SHALL BE 5" UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS 4. BEARING DEPTH OF SLOPING "LH" SERIES JOISTS SHALL BE 7 1/2"

UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. . BEARING DEPTH OF "G" SERIES GIRDERS SHALL BE 7 1/2" MINIMUM. PROVIDE DEEPER BEARING DEPTHS AS REQUIRED. 6. REFER TO PLANS FOR OTHER SPECIAL JOIST END DEPTH BEARING

7. JOIST MANUFACTURER SHALL COORDINATE AND CONFIRM WITH THE STEEL FABRICATOR ALL SPECIAL BEARING CONDITIONS FOR JOIST AND JOIST GIRDER SYSTEMS.

8. "K" AND "KCS" SERIES JOISTS SHALL BEAR A MINIMUM OF 2 1/2" ON STEEL SUPPORTS UNLESS NOTED OTHERWISE ON THE DRAWINGS. 9. "LH" SERIES JOISTS SHALL BEAR A MINIMUM OF 4" ON STEEL

SUPPORTS UNLESS NOTED OTHERWISE ON THE DRAWINGS. 10. "G" SERIES JOIST GIRDERS SHALL BEAR A MINIMUM OF 6" ON STEEL SUPPORTS UNLESS OTHERWISE NOTED.

11. JOISTS BEARING ONLY ON ONE SIDE OF A STEEL SUPPORT SHALL BEAR A MINIMUM OF 2" PAST THE CENTERLINE OF THAT SUPPORT UNLESS OTHERWISE NOTED. 12. JOIST GIRDERS BEARING ONLY ON ONE SIDE OF A STEEL SUPPORT

SHALL BEAR THE FULL LENGTH OF THE SUPPORT UNLESS OTHERWISE 13. THE BOTTOM CHORD STRUTS OF JOISTS OR JOIST GIRDERS SHALL NOT BE RIGIDLY FASTENED TO MASONRY WALLS UNLESS SPECIFICALLY NOTED TO DO SO ON THE DRAWINGS.

14. BOTTOM CHORD STRUTS OF JOISTS WHERE REQUIRED SHALL BE RIGIDLY

5. BOTTOM CHORD STRUTS OF JOIST GIRDERS SHALL NOT BE WELDED TO SUPPORTS UNTIL THE FULL DEAD LOAD OF THE ROOF DECK AND INSULATION IS IN PLACE. ROOF SUPPORTED MECHANICAL APPARATUS IS NOT INCLUDED IN THIS REQUIREMENT. 16. ALL STEEL JOISTS REQUIRED TO SJI AND OSHA BE BOLTED TO THE

COLUMN OR BEAM OR JOIST GIRDER SHALL BE BOLTED WITH 2 - 3/4"

DIAMETER A325 BOLTS. DO NOT UTILIZE 1/2" DIAMETER BOLTS FOR

THIS PURPOSE.

ATTACHED TO STEEL SUPPORTS DURING THE STEEL ERECTION PROCESS.

17. BOLTS IN JOIST GIRDER TO COLUMN CONNECTIONS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY THE AISC.

FIELD WELDED IN ADDITION TO THE BOLTING REQUIREMENTS AS NOTED

18. BOLTS IN JOIST TO JOIST GIRDER CONNECTIONS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY THE AISC.

20. PROVIDE FIELD BOLTED CONNECTIONS UTILIZING 3/4" DIAMETER A325 BOLTS FOR COMMON JOISTS TO JOIST GIRDER CONNECTIONS AS REQUIRED FOR ERECTION BY SJI AND OSHA REGULATIONS. THESE CONNECTIONS SHALL BE FIELD WELDED IN ADDITION TO THE ERECTION

19. ADDITIONALLY THE BOLTED ENDS OF JOIST CONNECTIONS SHALL BE

ON THE DRAWINGS.

21. THE CAPACITY OF ANY BOLTS FOUND MISSING IN THE JOIST AND JOIST GIRDER CONNECTIONS SHALL BE MADE UP BY PROPER FIELD WELDING TO PROVIDE EQUAL STRENGTH OF THE MISSING BOLTS AS DIRECTED BY THE INSPECTING TESTING LABORATORY.

22. BOLT TIGHTENING AND FIELD WELDING OF CONNECTIONS SHALL BE VERIFIED AND REPORTED BY THE TESTING LAB.

23. BOTTOM CHORDS OF JOISTS DESIGNATED ON PLANS WITH A "BCX" SHALL BE RIGIDLY ATTACHED TO THE INDICATED JOISTS AND STEEL SUPPORTS DURING THE STEEL ERECTION PROCESS WITH FIELD WELDING. THESE FIELD WELDS SHALL BE OF SIZE AND LENGTH AS REQUIRED FOR 4 KIP UNFACTORED AXIAL LOAD. THIS IS A WELDING REQUIREMENT AND DOES AFFECT THE JOIST SUPPLIER'S DESIGN OF 24. PROVIDE CONTINUOUS HORIZONTAL AND/OR DIAGONAL CROSS BRIDGING

AT LOCATIONS SHOWN ON THE DRAWINGS. WHERE SJI STANDARDS REQUIRE ADDITIONAL LINES OF BRIDGING IN ADDITION TO THOSE SHOWN ON THE DRAWINGS THE ADDITIONAL LINES SHALL BE PROVIDED.

25. FIELD BOLTED DIAGONAL BRIDGING AS REQUIRED BY SJI SHALL BE BOLTED TO JOISTS AND AT INTERSECTIONS WITH 1/2" DIAMETER A307 MACHINE BOLTS. THESE BRIDGING CONNECTIONS DO NOT REQUIRE FIELD WELDING IN ADDITION TO BOLTING. MISSING OR MISALIGNED BOLTS SHALL BE COMPENSATED FOR FULLY BY FIELD WELDING. DO NOT UTILIZE 3/8" BOLTS FOR THIS REQUIREMENT.

26. PROPER ALLOWANCE FOR EXTRA BOTTOM CHORD BRIDGING WHERE REQUIRED FOR UPLIFT SHALL BE MADE BY THE JOIST FABRICATOR.

27. ALL BRIDGING SHALL BE WELDED TO TOP AND BOTTOM CHORDS AT ALL POINTS OF CONTACT WITH WELDS OF SUFFICIENT SIZE AND CONFIGURATION TO DEVELOP 2 KIPS MINIMUM FORCE. ANY LARGER FORCES THAT MAY BE REQUIRED BY SJI SHALL BE DESIGNATED ON THE

JOIST SHOP DRAWINGS TO BE PROVIDED BY THE JOIST ERECTOR. 28. REFER TO DRAWINGS FOR ADDITIONAL FIELD WELDED DIAGONAL BRIDGING AT ENDS OF BRIDGING RUNS.

29. ALL JOISTS SHALL BE FIELD WELDED TO THE STEEL SUPPORT BEAM, COLUMN, OR BEARING PLATE WITH A 3/16" X 2" FILLET WELD OR EQUIVALENT FIELD WELD BOTH SIDES OF EACH JOIST SEAT AT EACH

30. ALL JOIST CHORD MEMBERS SHALL BE ANGLES.

31. BRIDGING SHALL BE IN PLACE, AND WELDED FOR REVIEW BY THE ARCHITECT PRIOR TO INSTALLING THE METAL ROOF DECK. 32. JOISTS AND ACCESSORIES SHALL RECEIVE ONE DIP COAT OF STANDARD

PRIMERS SHALL BE COMPATIBLE WITH FIREPROOFING AND FINAL FINISHES SPECIFIED. 33. STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED BY THEIR FABRICATOR FOR A NET UPLIFT OF NOT LESS THAN 33 PSF. ONE THIRD INCREASE IN ALLOWABLE STRESS MAY <u>NOT</u> BE UTILIZED FOR

GREY OXIDE PAINT WHERE PERMANENTLY EXPOSED TO VIEW. ALL

34. JOIST GIRDERS SHALL BE DESIGNED BY THE JOIST FABRICATOR WITH SELF WEIGHT OF THE GIRDER ADDED TO THE LOADS GIVEN ON THE

35. UNLESS OTHERWISE NOTED ALL JOIST GIRDERS SUPPORTING W4 PIPING SUPPORT BEAMS SHALL BE DESIGNED BY THEIR SUPPLIER TO SUPPORT AN ADDITIONAL 1.5 KIPS UNFACTORED SERVICE LOAD AT EACH W4

36. PROPER CARE SHALL BE EXERCISED IN THE ERECTION AND ALL FIELD WELDING WORKS TO PREVENT DAMAGE TO THE JOIST MEMBERS. ANY JOIST FOUND TO BE DAMAGED SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE ARCHITECT.

37. PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

# METAL ROOF DECK

METAL ROOF DECK ON OPEN WEB STEEL JOISTS AT ALL OTHER UNITS SHALL BE 1 1/2" DEEP, 22 GAGE, WIDE RIB PRIMED DECK UNITS WITH 36" COVER CONFORMING TO STEEL DECK INSTITUTE (SDI)

2. 1 1/2" DEEP METAL ROOF DECKING SHALL BE WELDED TO STEEL SÚPPORTING MEMBERS WITH 3/4" DIAMETER PUDDLE WELDS AT 12" OC AT ALL END LAPS AND ALL INTERMEDIATE SUPPORTS, EXCEPT THAT AT THE WELD SPACING SHALL BE DECREASED TO 6" OC WITHIN 12' OF LOW EAVES, RIDGES, AND GABLE ENDS. THE WELD SPACING SHALL BI DECREASED TO 6" OC AT CONTINUOUS DECK EDGE SUPPORTS AT LOW EAVES AND RIDGES. AT HIPS AND VALLEYS WHERE DECK UNITS ARE CUT ON A BIAS PROVIDE 2 - 3/4" DIAMETER PUDDLE WELDS PER

SIDE LAPS FOR ALL 1 1/2" METAL ROOF DECK UNITS SHALL BE MECHANICALLY FASTENED AT 18" OC WITH #12 SELF DRILLING TEK

ALL DECKING UNITS SHALL BE LAID OUT BY THE SUPPLIER TO A PATTERN THAT PROVIDES FOR A MINIMUM THREE SPAN CONDITION AND SHALL BE LAPPED 3" MINIMUM AT END JOINTS OVER SUPPORTS. 5. DECK UNITS SHALL BE SECURELY FASTENED IN STRAIGHT LINES AND

BE REJECTED AND SHALL BE REPLACED AT NO ADDITIONAL COST IF SO DIRECTED BY THE ARCHITECT. 6. PROVIDE ALL NECESSARY ACCESSORIES, SUCH AS CONTINUOUS RIDGE HIP, VALLEY, EAVE, RAKE CLOSURE PLATES, SUMP PANS, ANOTHER DECK RELATED ACCESSORIES OF PROPER SIZE AND SHAPE TO PROVIDE A COMPLETE FIRST CLASS WEATHERTIGHT JOB. MINIMUM WIDTH OF THESE CLOSURE PLATES SHALL BE 8" AND SHALL BE 22 GAGE G60 GALVANIZED MATERIAL AND SHALL BE WELDED WITH PAIRS OF 3/4

TO TRUE PLANES TO ACCEPT THE SPECIFIED ROOFING SYSTEMS.

UNEVEN, LOOSE, BENT, OR OTHERWISE BADLY INSTALLED DECK WILL

DIAMETER PUDDLE WELDS SPACED AT 6" OC OR FASTENED INTO PLACE WITH PAIRS OF #12 SDST TEK SCREWS SPACED AT 6" OC. 7. PROPER CARE SHALL BE TAKEN BY THE ERECTOR SO AS NOT TO BURN HOLES IN DECK OR SUPPORTING MEMBERS. BURNED HOLES OR DAMAGES SUPPORTING MEMBERS SHALL BE CAUSE FOR REJECTION. REJECTED WORK SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST IF

SO DIRECTED BY THE ARCHITECT. 8. TOUCH UP WELDS AND ABRASIONS WITH ZINC RICH PAINT.

9. METAL DECKING SHALL BE INSPECTED BY ARCHITECT AND ROOFING INSTALLER PRIOR TO COVERING. 10. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

# COMPOSITE METAL DECK

1. COMPOSITE METAL DECK FOR SUSPENDED FLOOR SLABS BE 3" DEEP, 16 GAGE, GALVANIZED COMPOSITE DECK TYPE 3 VLI AS MANUFACTURED BY VULCRAFT OR AN APPROVED EQUAL WITH ALL NECESSARY CLOSURES, FILLERS, AND OTHER ACCESSORIES TO GIVE A FIRST CLASS

WORKMANLIKE INSTALLATION. 2. ONE LINE OF ADJUSTABLE HEIGHT TEMPORARY SHORING MAY BE REQUIRED IN SOME INSTANCES AT MIDSPAN. CONSULT WITH MANUFACTURER FOR HIS REQUIREMENTS ON TEMPORARY SHORING. HEIGHT OF THE SHORING IF USED SHALL BE CAREFULLY CONTROLLED TO KEEP THE SHORING 1/4" BELOW THE LEVEL OF THE BOTTOM OF TH BARF UNLOADED DECK SO THAT THE DECK IS NEVER IN A "CAMBERED POSITION. THE WEIGHT OF THE FRESH CONCRETE WILL "SETTLE" THE DECK DOWN ONTO THE SHORING MEMBER AS THE CONCRETE IS BEING

3. TO MINIMIZE FRESH CONCRETE LEAKAGE AT SIDE LAPS, PLAN CONCRETE PLACEMENT SEQUENCE SO THAT THE WEIGHT OF THE FRESH CONCRETE IS PLACED ON THE TOPMOST SHEET OF DECK FIRST.

6. WELD DECK TO STEEL SUPPORTS OR MASONRY EMBED PLATES WITH 2

4. DECK SHALL BE LAID OUT FOR A MINIMUM 3 1/2" DECK BEARING AT END SUPPORTS. 5. FASTEN SIDE LAPS AT 24" O.C. WITH #12 SDST TEK SCREWS.

7. SUBMIT SHOP DRAWINGS OF COMPOSITE FOR APPROVAL PRIOR TO

- 3/4" DIAMETER PUDDLE WELDS PER FLUTE.

FABRICATION.

LIGHT GAGE METAL FRAMING

1. LIGHT GAGE METAL STUD LOCATIONS SHALL BE AS NOTED ON THE

2. LIGHT GAGE METAL STUDS FOR EXTERIOR WALLS AT WINDOW HEADS 2. SPECIAL INSPECTORS SHALL BE DULY CERTIFIED TO INSPECT THE WORK SHALL BE 800S162-68 50 KSI AT 12" o/c. STUDS AS

WINDOW HEADER MATERIAL SHALL BE 800S200-68 50 KSI, TYP. U.O.N. TRACK MATERIAL SHALL BE 800T200-68 50 KSI, TYP. U.O.N. 4. ALL MATERIAL SHALL BE GALVANIZED AND ALL SCREWS SHALL BE

MANUFACTURED BY CLARK STEEL FRAMING SYSTEMS OR APPROVED

SUITABLE GRADE STAINLESS STEEL OR ZINC PLATED. 5. ALL WELDS AND ABRASIONS IF ANY SHALL BE TOUCHED UP WITH ZINC

LOADS TO BE IMPOSED ON THE CONNECTIONS.

TO THE APPROVAL OF THE ARCHITECT.

**DESIGN CODE DATA** 

1. IMPORTANCE FACTORS:

SEISMIC

PLATFORMS

CORRIDORS

STAIRS

R00F

CLASSROOMS

LIVE LOAD:

3. DEAD LOAD:

SNOW LOAD:

9. ALL CONNECTIONS SHALL BE ACCOMPLISHED WITH STANDARD

REFER TO ARCHITECTURAL DRAWINGS FOR INTERIOR METAL STUD

PARTITION WALL REQUIREMENTS. PROVIDE BRACING FOR TOPS OF ALL

PARTITIONS TO MAIN STRUCTURE FOR PROPER PARTITION STABILITY.

1. PROVIDE NON-SHRINK, NON-METALLIC PRE-MIXED GROUT UNDER ALL

**40** PSF

100 PSF

**24** PSF

**6.93** PSF

INTERNAL PRES. COEFF.

WIND BASE SHEARS

6. SEISMIC DESIGN (ASCE 7 - 10):

USE GROUP

PROCEDURE

7. SOIL BEARING VALUE 2500 PSF.

NOT SPECIFIED OTHERWISE

ВОТТОМ

MASONRY OPENING UP TO 4'-0"

MASONRY OPENING 4'-1" TO 6'-8"

MASONRY OPENING 6'-9" TO 8'-0"

BRICK WYTHE L6 X 4 X 3/8 LLV

MASONRY OPENING UP TO 4'-0"

BRICK WYTHE L4 X 4 X 1/4

MASONRY OPENING 4'-1" TO 6'-8"

MASONRY OPENING 6'-9" TO 8'-0"

MASONRY OPENING UP TO 4'-0"

MASONRY OPENING 4'-1" TO 6'-0"

MASONRY OPENING 6'-1" TO 8'-0"

MASONRY OPENING 4'-1" TO 6'-0"

MASONRY OPENING 6'-1" TO 8'-0"

BRICK WYTHE L6 X 4 X 5/16 LLV

BRICK WYTHE L6 X 4 X 5/16 LLV

COMPONENTS

LATERAL DESIGN CONTROLS:

LINTEL SCHEDULE FOR MASONRY OPENINGS

8" CMU WYTHE 8" X 8" BOND BEAM W/ 2 -#5 CONTINUOUS TOP AND

8" CMU WYTHE 8" X 8" BOND BEAM W/ 2 -#5 CONTINUOUS TOP AND

8" CMU WYTHE 8" X 8" BÓND BEAM W/ 2 -#6 CONTINUOUS TOP AND

12" CMU WYTHE 12" X 8" BOND BEAM W/ 2 -#5 CONTINUOUS TOP AND

12" CMU WYTHE 12" X 8" BOND BEAM W/ 2 -#5 CONTINUOUS TOP AND

BRICK WYTHE L6 X 4 X 3/8 LLV 12" CMU WYTHE 12" X 8" BOND BEAM W/ 2 -#6 CONTINUOUS TOP AND

8" CMU WYTHE 8" X 8" BOND BEAM W/ 2 -#5 CONTINUOUS TOP AND

8" CMU WYTHE 8" X 8" BOND BEAM W/ 2 -#5 CONTINUOUS TOP AND

12" CMU WYTHE 12" X 8" BOND BEAM W/ 2 -#5 CONTINUOUS TOP AND

12" CMU WYTHE 12" X 8" BOND BEAM W/ 2 -#5 CONTINUOUS TOP AND

12" CMU WYTHE W8X10 W/ BOTTOM PLATE 1/4" X 11" FULL LENGTH

8" CMU WYTHE W8X10 W/ BOTTOM PLATE 1/4" X 7" FULL LENGTH

INTERIOR MASONRY WALL OPENINGS

EXTERIOR MASONRY WALL OPENINGS

5. WIND LOAD:  $V_{ULT} = 127$  3 SEC PEAK GUST MPH (ASCE 7 - 10)

MWFRS DESIGN WIND PRES. 35.1 PSF

0.078

0.126

B. BUILDING FRAME

EQUIV. LATERAL FORCE

ANCHORED

(PER NOVA GEOTECH REPORT

PROJECT NO. 10727-2019022)

SEISMIC BASE SHEARS: (SEE TABLE) ----

(SEE TABLE) –

17. INTER. REINF. MAS. SHEAR WALLS

D (PER NOVA GEOTECH REPORT, PROJECT NO. 10727-2019022)

A COMPRESSIVE STRENGTH OF 7,000 PSI AT 7 DAYS.

COLUMN BASE PLATES AND BEAM BEARING PLATES. GROUT SHALL HAVE

SHOPS WITH MINIMUM OF FIVE YEARS OF SATISFACTORY 6. LIGHT GAGE HEADERS OVER DOOR AND WINDOW OPENINGS IN EXTERIOR COMPLETION OF WORK SIMILAR TO WORK ON THIS PROJECT. WALLS SHALL BE COMPOSED OF MULTIPLE MEMBERS AS NOTED ON THE WELD CERTIFICATION PAPERS FOR ALL FIELD WELDERS SHALL BE ON THE DRAWINGS. VERIFIED BY THE SPECIAL INSPECTOR.

E) ALL FIELD WELDING OF LIGHT GAGE MEMBERS TO STRUCTURAL

7. ALL MULTIPLE MEMBERS SHALL BE INTERCONNECTED SO AS TO ACT AS STEEL PARTS SHALL BE PERIODICALLY INSPECTED. A COMPOSITE UNIT. ALL INDIVIDUAL MEMBERS COMPRISING A LIGHT GAGE FRAMING SHALL BE PERIODICALLY INSPECTED. MULTIPLE MEMBER SHALL BE FULL LENGTH UNSPLICED MATERIAL INSPECTION SHALL COVER METAL STUD SIZES, SHAPES, THICKNESS. STRAIGHTNESS. SCREW SIZES AND NUMBER. STUL 8. ALL CONNECTIONS SHALL BE SCREWED OR WELDED TOGETHER BOTH BEARING AGAINST TRACK WEBS, STRAP BRACING SIZE AND SIDES WITH SUFFICIENT WELDS OR SCREWS TO SAFELY SUPPORT THE

ACCESSORY COMPONENTS SUPPLIED FOR THAT PURPOSE. H) SPECIAL INSPECTORS SHALL BE IN DIRECT COMMUNICATION WITH 10. ALL CONNECTION DESIGNS FOR THE LIGHT GAGE FRAMING SHALL BE THE ENGINEER OF RECORD DURING THE INSPECTION PROCESS. THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBJECT I) FULL REPORTS OF ALL INSPECTIONS SHALL BE SUBMITTED TO THE

SPECIAL INSPECTIONS

3. SPECIAL INSPECTION NOTES:

THIS REQUIREMENT

1. SPECIAL INSPECTIONS SHALL BE PERFORMED CONTINUOUSLY OR

REQUIRING THE INSPECTION AS SCHEDULED.

BUILDING CODE (IBC BUILDING CODE) AS SCHEDULED BELOW.

PERIODICALLY AS REQUIRED BY CHAPTER 17 OF THE INTERNATIONAL

A) THE INSPECTOR SHALL MONITOR ALL SOIL CUTTING AND FILLING

C) ALL STRUCTURAL STEEL FABRICATION SHALL BE PERFORMED IN

CONNECTION DETAILS, BRIDGING SIZE AND CONNECTION DETAILS

OF LIGHT GAGE MEMBERS CONNECTED BY SCREWS OR FIELD

WALL OPENING HEADER SIZE AND DETAILS, WALL ALIGNMENT AND

PLUMBNESS. AND DETAILS OF WORKMANSHIP AND INTERCONNECTION

SEISMIC DESIGN CATEGORY C

MECHANICAL EQUIPMENT SUPPORTS\*

SPRAYED FIRE-RESISTANT MATERIALS

FOR SPRAY-ON FIRE PROOFING.

I. VERIFY SURFACE PREPARATION (NO PAINT) ADEQUATE

2. VERIFY DEPTH AND EXTENT OF SPRAY—ON FIRE PROOFING

MANUFACTURER'S CERTIFICATE OF COMPLIANCE.

\*VERIFY THAT THE LABEL, ANCHORAGE, OR MOUNTING CONFORMS TO THE

AREAS UNDER THE BUILDING AND TO 10' OUTSIDE THE BUILDING

AREA IN ACCORDANCE WITH TABLE 1705.6 OF THE IBC BUILDING

INSPECTION BY THE SPECIAL INSPECTOR. AISC SHOPS MAY WAIVE

B) STEEL FABRICATION SHOPS NOT CERTIFIED BY AISC WILL REQUIRE IN SHOP

# **DIMENSIONS**

AREA  $V_x$  (KIPS)  $V_y$  (KIPS)

SEISMIC BASE SHEARS

 $\longrightarrow$  AREA  $\mid V_{\chi}$  (KIPS)  $\mid V_{\gamma}$  (KIPS)

19

60

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL DIMENSIONS IN THE DRAWINGS AND ADVISING THE ARCHITECT OF ANY DIFFERENCES IN THE DIMENSIONS ON THE DRAWINGS PRIOR TO COMMENCING CONSTRUCTION.

ENGINEER OF RECORD.

QUALITY ASSURANCE WIND AND SEISMIC SUBMITTALS

) MILL TEST REPORTS FOR ALL STRUCTURAL STEEL MATERIAL SHALL BE

SUBMITTED FOR APPROVAL WITH THE SHOP DRAWINGS. 2) MILL TEST REPORTS FOR ALL STEEL JOISTS SHALL BE SUBMITTED

WITH THE SHOP DRAWINGS FOR APPROVAL. 4) OPEN WEB STEEL JOISTS SHALL BE MANUFACTURED IN AN SJI CERTIFIED

5) MILL TEST REPORTS FOR ALL METAL DECK AND STRUCTURAL PROPERTIES OF DECK PROFILES SHALL BE SUBMITTED WITH THE SHOP DRAWINGS FOR APPROVAL. 6) ALL METAL ROOF DECK SHALL BE ROLL FORMED IN A STEEL DECK

INSTITUTE (SDI) CERTIFIED SHOP. ALL COMPÒSITÉ METAL FLOOR DECK SHALL BE ROLL FORMED IN A STEEL DECK INSTITUTE (SDI) CERTIFIED SHOP.

6) MILL TEST REPORTS FOR ALL BOLTS AND SHEAR STUDS SHALL BE SUBMITTED FOR APPROVAL WITH THE SHOP DRAWINGS. 7) ALL FIELD WELDING SHALL BE PERFORMED BY WELDING PERSONNEL

HOLDING CURRENT CERTIFICATION BY AWS FOR THE TYPES OF WELDING BEING PERFORMED. THE CERTIFICATION PAPERS SHALL BE EXAMINED AND APPROVED BY THE TESTING AGENCY. 8) TEST REPORTS FOR ALL CONCRETE MASONRY UNITS SHALL BE

SUBMITTED PRIOR TO CONSTRUCTION. 9) TEST REPORTS FOR ALL MORTARS AND GROUTS SHALL BE SUBMITTED PRIOR TO CONSTRUCTION.

10) MILL TEST REPORTS FOR ALL REINFORCING STEEL SHALL BE

BE SUBMITTED PRIOR TO CONSTRUCTION.

SUBMITTED WITH THE SHOP DRAWINGS. 11) TEST REPORTS FOR ALL CONCRETE SHALL BE SUBMITTED PRIOR TO

12) TEST REPORTS FOR ALL MACRO FIBER CONCRETE REINFORCING SHALL

# **EXISTING CONDITIONS**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING JOB CONDITIONS. ANY ADVERSE EXISTING CONDITIONS AFFECTING WORK SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR POSSIBLE CLARIFICATION OF

RECONCILIATION.

CONSTRUCTION SAFETY 1. THESE DRAWINGS DO NOT CONTAIN THE REQUIREMENTS FOR JOB

SAFETY. ALL PROVISIONS FOR SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. <u>STATEMENT OF SPECIAL INSPECTIONS</u> QUALITY ASSURANCE FOR WIND AND SEISMIC EACH OF THE FOLLOWING COMPONENTS (STEEL, MASONRY, DESIGNATED SEISMIC) ARE IN EITHER THE SEISMIC OR WIND FORCE RESISTING SYSTEMS OR BOTH, EACH REQUIRES STRUCTURAL OBSERVATION IN ACCORDANCE WITH CH.17 OF THE IBC

DESIGNATED SEISMIC SYSTEM = BUILDING FRAME SYSTEM w/ INTERMEDIATE MASONRY SHEAR WALL WIND CATEGORY C. 127 MPH 3 SEC GUST

MAIN WIND FORCE RESISTING SYSTEM = BUILDING FRAME SYSTEM w/ INTERMEDIATE MASONRY SHEAR WAL <u>WIND OR SEISMIC</u> **BOLTING** ID MARKING PERIODIC AISC 360 MILL CERTS PERIODIC WIND AND SFISMIC AISC 360 SNUG TIGHT PERIODIC WIND AND SEISMIC CALIBRATED TURN OF NUT PERIODIC WIND AND SEISMIC AISC 360 PERIODIC AISC 360 WIND AND SEISMIC UNCALIBRATED TURN OF NUT NOT PERMITTED WIND AND SEISMIC PIECE ID MARKS PERIODIC AISC 360 WIND AND SEISMIC PERIODIC OTHER STEEL ID MARKS ASTM WIND AND SEISMIC PERIODIC MILL CERTS WIND AND SEISMIC FRAME BRACING PERIODIC WIND AND SEISMIC MEMBER LOCATIONS PERIODIC WIND AND SEISMIC JOINT DETAILS AT EACH CONNECTION PERIODIC WIND AND SEISMIC WELDFILLER ID MARKINGS PERIODIC WIND AND SEISMIC MANUFACTURER'S CERTIFICATION PERIODIC WIND AND SEISMIC MULTIPASS FILLE CONTINUOUS WIND AND SEISMIC SINGLE PASS FILLET → CONTINUOUS AWS WIND AND SEISMIC SINGLE PASS FILLET ≤ % PERIODIC WIND AND SEISMIC FLOOR AND ROOF DECK WELDS AND SCREWS PERIODIC AWS WIND AND SEISMIC **MATERIALS** VERIFY f'n PERIODIO PERIODIC TMS 602 WIND AND SEISMIC PROPORTIONS OF MATERIALS PERIODIC WIND AND SEISMIC PFRIODIC TMS 602 WIND AND SEISMIC SLUMP OF GROUT PERIODIC TMS 602 WIND AND SEISMIC PLACEMENT OF MASONRY UNITS PERIODIC WIND AND SEISMIC MORTAR JOINTS PERIODIC TMS 602 WIND AND SEISMIC REINFORCEMENT PERIODIC TMS 602 WIND AND SEISMIC CONTINUOUS VERIFY GROUT SPACE PRIOR TO GROUT TMS 602 WIND AND SEISMIC PLACEMENT OF GROUT **CONTINUOUS** TMS 602 WIND AND SEISMIC SIZE OF MASONRY UNITS PERIODIC TMS 602 WIND AND SEISMIC LOCATIONS OF MASONRY UNITS PERIODIC TMS 602 WIND AND SEISMIC PREPARE GROUT PRISMS CONTINUOUS WIND AND SEISMIC GRADE AND TYPE OF ANCHORS CONTINUOUS WIND AND SEISMIC SIZE OF ANCHORS CONTINUOUS TMS 602 WIND AND SEISMIC LOCATIONS OF ANCHORS CONTINUOUS TMS 602 WIND AND SEISMIC GRADE AND TYPE OF REINFORCEMENT PERIODIC WIND AND SEISMIC SIZE OF REINFORCEMENT PERIODIC WIND AND SEISMIC WELDING OF REINFORCEMENT NOT PERMITTED WIND AND SEISMIC VERIFY VERTICAL REINFORCEMENT CONTINUOUS WIND AND SEISMIC VERIFY CONNECTION TO FOUNDATION CONTINUOUS WIND AND SEISMIC COLD WEATHER PROCEDURES (∠ 40° F PERIODIC TMS 602 WIND AND SEISMIC HOT WEATHER PROCEDURES (→ 90° F) PERIODIC TMS 602 WIND AND SEISMIC DESIGNATED SEISMIC SYSTEMS PERIODIC EXTERIOR WALL PANELS AND ANCHORAGE\* SEISMIC SUSPENDED CEILINGS SYSTEMS AND ANCHORAGE\* PERIODIC SEISMIC PERIODIC ANCHORAGE OF EMERGENCY ELECTRICAL EQUIPMENT\* SEISMIC PERIODIC SPRINKLER PIPE CONNECTIONS\* SEISMIC **PERIODIC** DUCTWORK SUPPORTS\* SEISMIC

PERIODIC

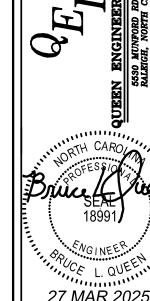
STATEMENT OF SPECIAL INSPECTIONS	INSPECTION	
CONCRETE	<u>FREQUENCY</u>	
INSPECTION OF REINFORCING STEEL, AND PLACEMENT.	PERIODIC	ACI 318: 3.5, 7.1–7.7
REINFORCING STEEL WELDING.	NOT PERMITTED	AWS D1.4, ACI 318: 3.5.2
I. INSPECTION OF BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE.	CONTINUOUS	ACI 318: 8.1.3, 21.2.8
. INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE.	PERIODIC	ACI 318: 3.8.6, 8.1.3, 21.2.8
. VERIFYING USE OF REQUIRED DESIGN MIX.	PERIODIC	ACI 318: CH.4, 5.2-5.4
AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8
. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 5.9, 5,.10
I. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 5.11–5.13
. N/A		
D. N/A		
1. VERIFICATION OF IN—SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	ACI 318: 6.2
2. INSPECT FORMWORK FOR SHAPE, LOCATOIN AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	ACI 318: 6.1.1
<u>soils</u>		
VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC	
. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC	
S. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC	
. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS	
. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC	

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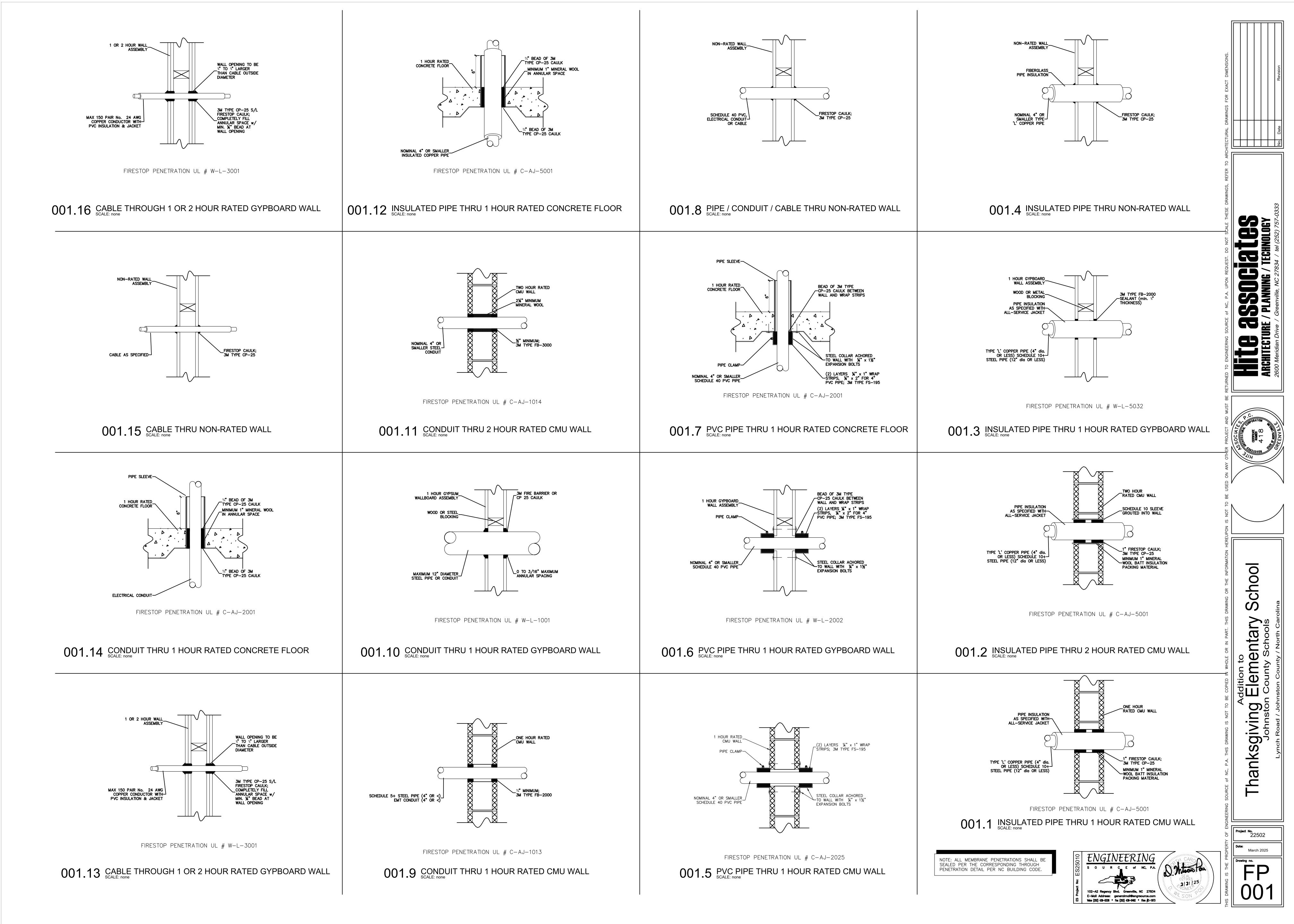
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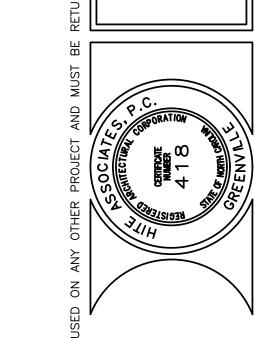
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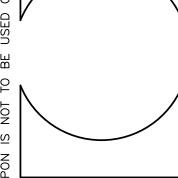
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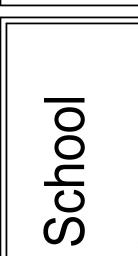
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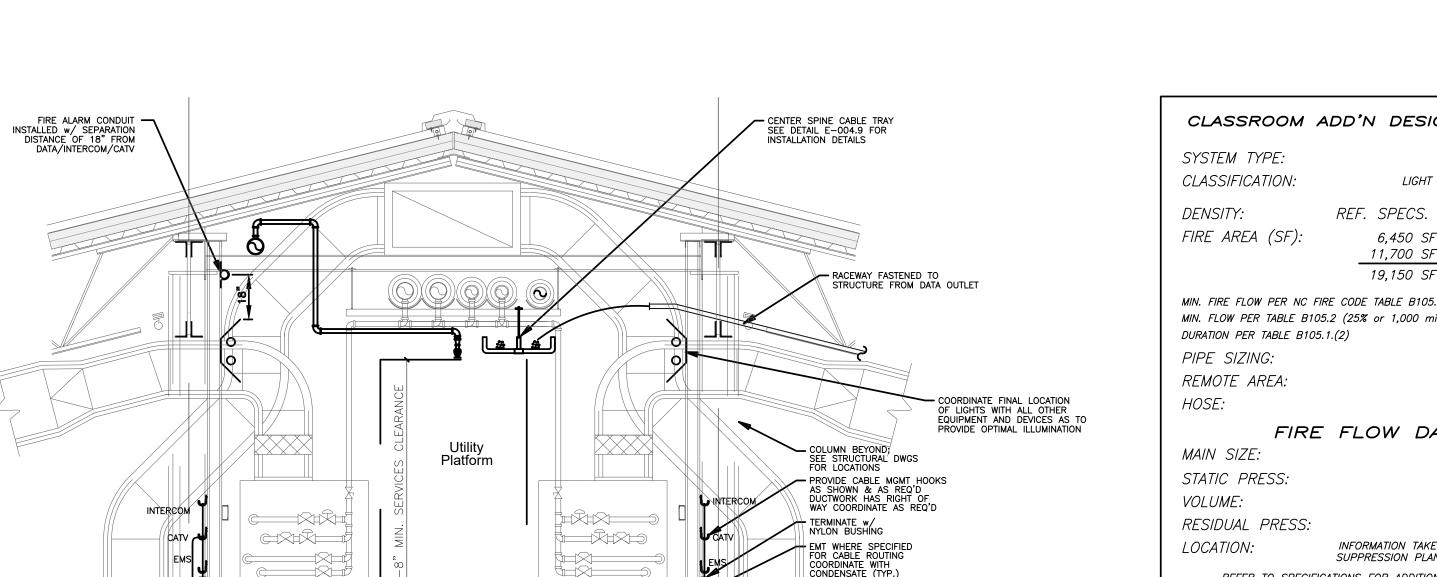


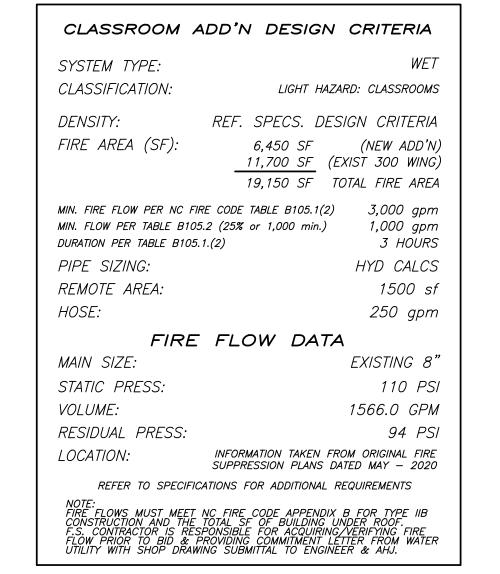


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TOP BEAM C-CLAMP-FROM SYSTEM 1'-0" OFF OF TOP-BRANCH FIRE LINE-STEEL STRUCTURAL BEAM TEST VALVE IN READILY \_ACCESSIBLE & HEATED LOCATION, ABOVE CEILING IN FINISHED SPACES EXTERIOR WALL CEILING PLATE PENDANT REFLECTOR-NOTE: REFERENCE SPECIFICATION SECTION 15060

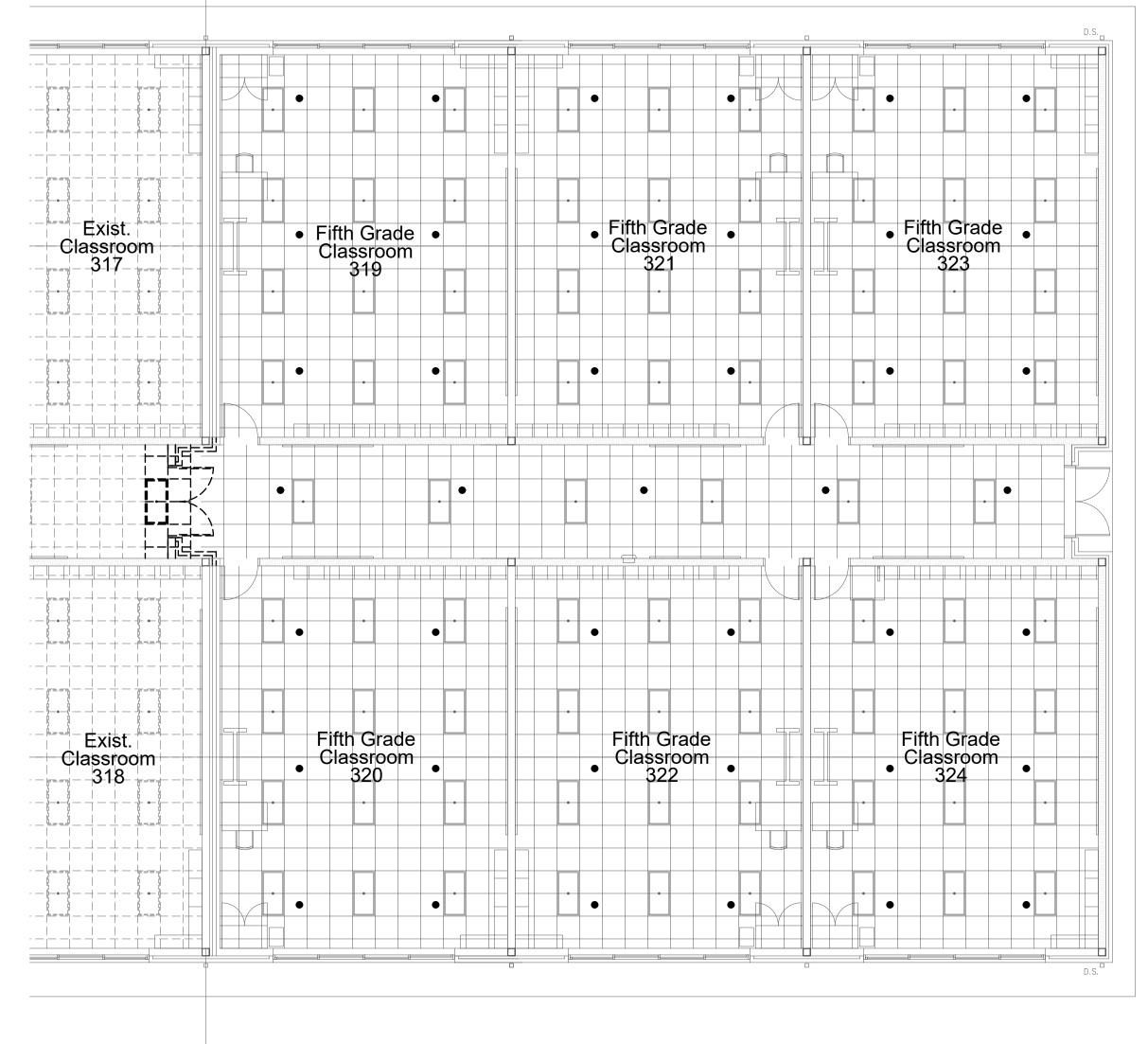
101.4 SYSTEM TEST CONNECTION 101.3 SPRINKLER HEAD DETAIL



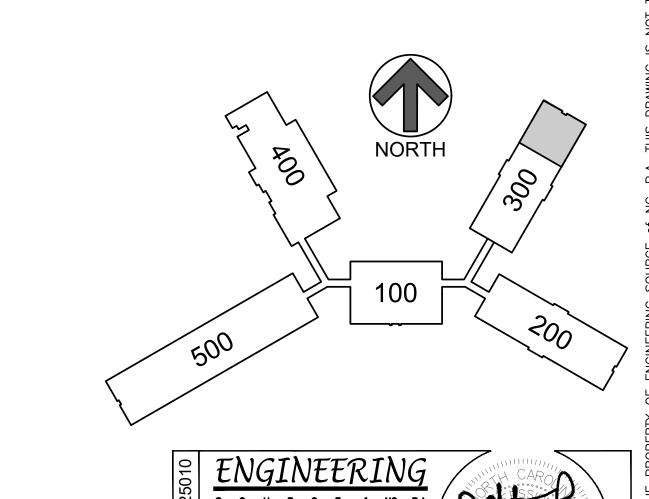


301.2 TYPICAL PLATFORM SECTION

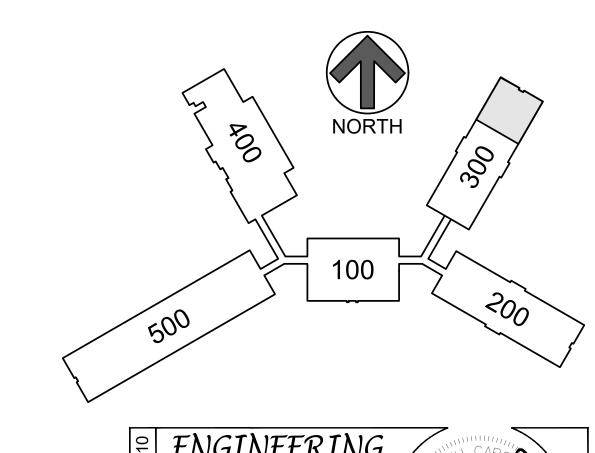
101.5 HANGER DETAILS



301.1 FIRE SUPPRESSION PLAN: 300 ADDITION SCALE: 1/8" = 1'-0"



E-Mail Address: generalmail@engrsource.com Voice (252) 439-0338 \* Fax (252) 439-0462 \* Firm #C-1973



ENGINEERING

S O U R C E of NC, P.A.

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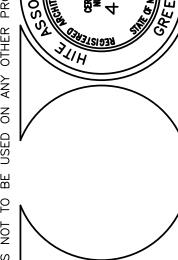
102-A2 Regency Blvd. Greenville, NC 27834

E-Mail Address: generalmail@engraource.com

Voice (252) 439-0338 \* Fax (252) 439-0462 \* Firm (C-1973

ESE DRAWINGS, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT [

HITE 3890 BINE / PLANNING / TECHNOLOGY 2600 Meridian Drive / Greenville, NC 27834 / tel (252) 757-03



/ing Elementary School

Project No.
22502

Date:
March 2025

Drawing no.

#### PLUMBING GENERAL NOTES:

- 1. THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH N.C. PLUMBING CODE AND LOCAL PLUMBING INSPECTOR.

  2. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION. CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING WITH EXISTING CONDITIONS AND SHALL PROVIDE ANY NECESSARY OFFSETS, TEES, REROUTING, ETC. REQUIRED FOR A COMPLETE AND COORDINATED INSTALLATION.
- 3. THE PLUMBING CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING FIXTURES & EQUIPMENT WITH OTHER PRIME CONTRACTORS PRIOR TO INSTALLATION TO AVOID CONFLICTS. CONTACT ARCHITECT IF ALTERNATE INSTALLATION METHOD IS REQUIRED.
- 4. THE LOCATIONS OF KNOWN EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE METHOD & HAVE NOT BEEN VERIFIED; CONTRACTOR SHALL DETERMINE EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK & IS RESPONSIBLE FOR ANY DAMAGE INCURRED BY FAILURE TO DO SO. CALL UTILITY LOCATOR SERVICE 48 HOURS BEFORE EXCAVATION (1-800-632-4949). ALSO CONTACT SCHOOL MAINTINANCE DEPARTMENT AND USE PRIVATE UTILITY LOCATOR SERVICE AS NEED TO IDENTIFY ALL EXISTING UNDERGROUND UTILITIES.
- 5. THESE PLANS ARE DIAGRAMMATIC. DO NOT SCALE THESE DRAWINGS. REFER TO LARGEST SCALE ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL PROVIDE ALL NECESSARY OFFSETS, TEES, ELBOWS, ETC. FOR A COMPLETE WORKING PLUMBING
- 6. THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAPS, ETC.
- 7. CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE.

  8. HVAC DUCTWORK HAS RIGHT-OF-WAY OVER PLUMBING PIPES; COORDINATE AS REQUIRED. NO PIPING SHALL BE INSTALLED OVER ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, ETC., PER NEC ARTICLE 110.
- 9. ALL SUPPLY, DRAIN, AND VENT PIPING SHALL BE CONCEALED (EXCEPT AT FIXTURES) UNLESS OTHERWISE NOTED. ALL PIPE CONTAINING LIQUIDS INSIDE BUILDING ARE TO BE LOCATED WITHIN THE "INSULATION ENVELOPE".
- OTHERWISE NOTED.

  11. ALL DOMESTIC WATER PIPING SHALL BE TYPE K HARD DRAWN COPPER ABOVE GRADE, SOFT ANNEALED TYPE K BELOW WITH NO JOINTS UNDER SLAB. INSULATE HOT AND COLD WATER PIPING AS SPECIFIED. PRESSURE TEST SYSTEM AT 100 PSIG FOR 24 HOURS OR 150 PSIG FOR 4 HOURS. COPPER TUBING BELOW GRADE SHALL BE UTILIZED AS THE ELECTRICAL SYSTEM CROUNDING ELECTROPE

10. ALL DOMESTIC WATER PIPING SHOWN IS ABOVE, BETWEEN FLOOR JOIST/WITHIN WALLS, AND IN CRAWL SPACES UNLESS

- 12. ALL WATER PIPING SHALL BE INSULATED WITH PRE-FORMED FIBERGLASS TYPE INSULATION WITH THE FLAME DENSITY RATING NOT EXCEEDING 25 & THE SMOKE DENSITY RATING NOT EXCEEDING 50. THICKNESS FOR COLD WATER PIPING SHALL BE 1/2" THICK. THICKNESS FOR HOT WATER & RETURN PIPING SHALL BE 1" THICK. INSTALL SADLES AS REQUIRED IN ALL LOCATIONS TO PREVENT COMPRESSION OF INSULATION.
- 13. ALL BRANCH LINES SHALL HAVE SHUT—OFF VALVES. ALL DOMESTIC WATER BALL VALVES SHALL BE BRASS BODY, FULL PORT, CHROME PLATED BALL. TEFLON SEATS 150 # WSP, FOR SIZES 1/2" THRU 2". PROVIDE VALVE HANDLE EXTENSIONS AS REQUIRED FOR INSULATION.
- 14. ALL SANITARY SEWER PIPING SHOWN IS BELOW SLAB/WITHIN WALLS UNLESS NOTED OTHERWISE. ALL SANITARY VENT PIPING SHOWN IS ABOVE CEILING/WITHIN WALLS UNLESS NOTED OTHERWISE.
- 15. ALL WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC-DWV CONFORMING TO ASTM D 2665. ALL JOINTS SHALL BE SOLVENT WELDED TYPE CONFORMING TO ASTM D 2665/2949/3034, ASTM F 891, CSA B182.2,CSA CAN/CSA-B182.4

  16. VENT LINES SHALL SLOPE UP TO VTR.
- 17. ALL PIPING SYSTEMS SHALL BE SUPPORTED AS REQUIRED BY NC PLUMBING CODE AND MANUFACTURERS RECOMMENDATIONS.
- 18. ALL PIPING PENETRATIONS THRU NEW AND EXISTING WALLS SHALL BE SEALED TO EQUAL RATING OF THE NEW/EXISTING
- 19. PROVIDE CHROME-PLATED ESCUTCHEON PLATES WHERE PIPES PASS THROUGH FINISHED WALLS, CEILINGS, OR FLOORS.

  20. ALL PLUMBING SYSTEMS SHALL BE TESTED AS REQUIRED PER N.C. PLUMBING CODE.
- 21. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL UNDER SLAB PIPING WITH ALL STRUCTURAL FOUNDATIONS, P.C.
- SHALL COORDINATE ALL UNDER SLAB PLUMBING WITH ELEVATION INVERTS WITH THE SITE UTILITY INVERTS.

  22. ALL EXPOSED WATER SUPPLY AND WASTE LINES UNDER OPEN SINKS/LAVATORIES SHALL HAVE PROTECTIVE DEVICES
- INSTALLED TO MEET LATEST NCSBC AND ADA REQUIREMENTS.

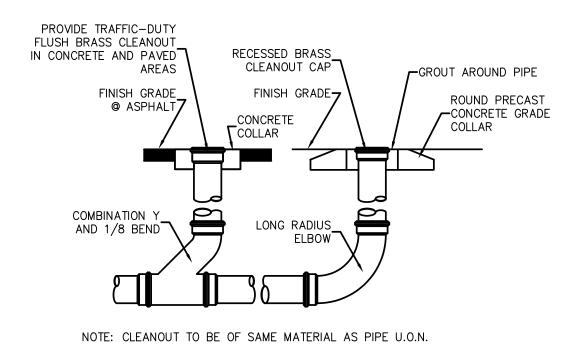
  23. THE ENTIRE PLUMBING SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH NC PLUMBING CODE.
- 24. ROOF DECKING SHALL NOT BE PENETRATED TO SUPPORT WASTE LINES, VENT LINES, AND WATER SUPPLY LINES.
- 25. WATER HEATERS SHALL COMPLY WITH N.C ENERGY CODE SECTION 504 OF THE NC BUILDING CODE.
- 26. WATER CLOSETS SHALL BE MOUNTED ON CAST IRON FLANGES.
- 27. CLEANOUTS & FLOOR DRAIN STRAINERS SHALL BE INSTALLED FLUSH WITH FINISH FLOOR ELEVATION. FLOOR DRAINS SHALL BE INSTALLED TO PROVIDE PROPER DRAINAGE OF SPACE.
- 28. ALL FLOOR DRAINS, HUB DRAINS, AND FLOOR SINKS SHALL HAVE TRAP PRIMERS OR HOSE BIBBS, INSTALLED AS SPECIFIED IN THE N.C. PLUMBING CODE SECTION 412.6.
- 29. P.C. SHALL VERIFY AND SET THE MAXIMUM OUTLET TEMPERATURES AT ALL NON—COMMERCIAL KITCHEN EQUIPMENT INCLUDING HAND SINKS LOCATED IN THE KITCHEN TO NOT EXCEED 110°F BY INSTALLATION OF POINT OF USE ANTI—SCALD MIXING VALVES IF NECESSARY.
- 30. ALL ACCESS COVERS INCLUDING BUT NOT LIMITED TO IN-GRADE CLEANOUTS, MANHOLES, AND WATER METER BOXES SHALL BE FLUSH WITH FINISHED GRADE UNLESS OTHERWISE SPECIFIED
- 31. P.C. SHALL PROTECT ALL PLUMBING PIPE AS IT COMES UP THROUGH CONCRETE PER SECTION 305.1 OF THE N.C. PLUMBING CODE.
- 32. ALL PLUMBING CONSTRUCTION PENETRATING FIRE—RATED SURFACES AND NON—RATED PARTITIONS SHALL BE SEALED PER FIRE STOPPING DETAIL ON SHEET FP—001 OR THE LATEST EDITION OF THE UL FIRE RESISTANCE DIRECTORY, VOLUME 2.

  33. "PROVIDE" IS DEFINED AS FURNISH AND INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
- 34. PLUMBING CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL EXTERNAL DISCONNECTS THAT ARE REQUIRED FOR EQUIPMENT PROVIDED UNDER THIS CONTRACT. PLUMBING CONTRACTOR SHALL FURNISH ALL REQUIRED FUSES FOR ALL FUSED DISCONNECT SWITCHES. COORDINATE DISCONNECT AND FUSE INSTALLATION WITH ELECTRICAL CONTRACTOR, ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING DISCONNECT SWITCHES AND FUSES. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL LINE SIDE WIRING AND CONDUIT TO EXTERNALLY OR INTERNALLY MOUNTED DISCONNECTS AND SHALL PROVIDE AND INSTALL LOAD SIDE WIRING AND CONDUIT FROM EXTERNALLY MOUNTED DISCONNECT SWITCHES TO PLUMBING EQUIPMENT. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL ELECTRICAL CONNECTIONS TO
- 35. PLUMBING CONTRACTOR SHALL PROVIDE MARKING TAPE AND TRACER WIRE FOR ALL NONE METALLIC PIPING BELOW GRADE. TAPE SHALL BE AT LEAST 3" WIDE AND SHALL BE LABELED FOR THE SPECIFIC TYPE PIPE. TAPE SHALL BE 24" BELOW GRADE. TRACER WIRE SHALL BE INSTALLED ON NON-METALLIC SEWER PIPE AND SHALL MEET REQUIREMENTS OF SECTION 306.2.4. TRACE WIRE SHALL BE MINIMUM 14 AWG AND RATED FOR DIRECT BURIAL.

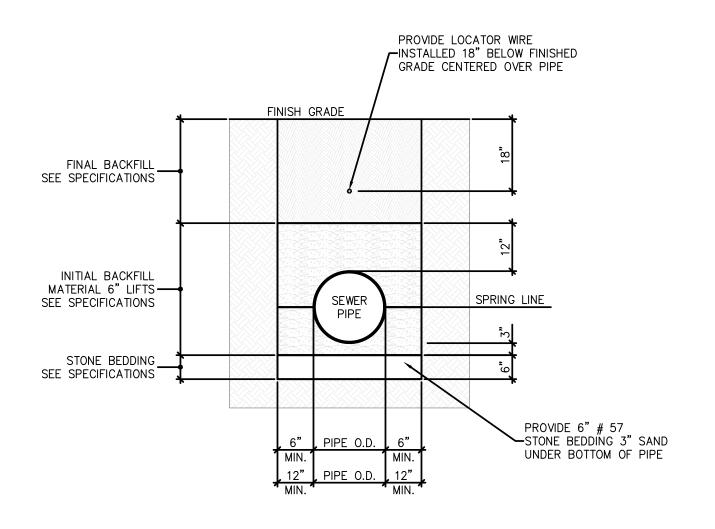
PLUMBING EQUIPMENT. SEE "PLUMBING EQUIPMENT ELECTRICAL CONNECTION DETAIL".

- 36. DISCONNECT SWITCHES INDICATED TO BE PROVIDED BY PLUMBING CONTRACTOR SHALL BE HEAVY DUTY NEMA-1 FOR INTERIOR APPLICATIONS AND HEAVY DUTY NEMA-3R FOR EXTERIOR INSTALLATIONS. SEE ALSO DIVISION 16 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 37. COMPRESSED AIR PIPING SHALL BE TYPE "K" SEAMLESS HARD DRAWN ANNEALED COPPER OR RIGID ALUMINUM ALLOY. COMPRESSED AIR PIPING SHALL BE PAINTED BLUE IN COLOR AND SHALL HAVE BLUE LABELS WITH WHITE LETTERING AFFIXED THAT READ "COMPRESSED AIR". COMPRESSED AIR PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH THE CURRENT NC PLUMBING CODE AND MANUFACTURER'S RECOMMENDATIONS.

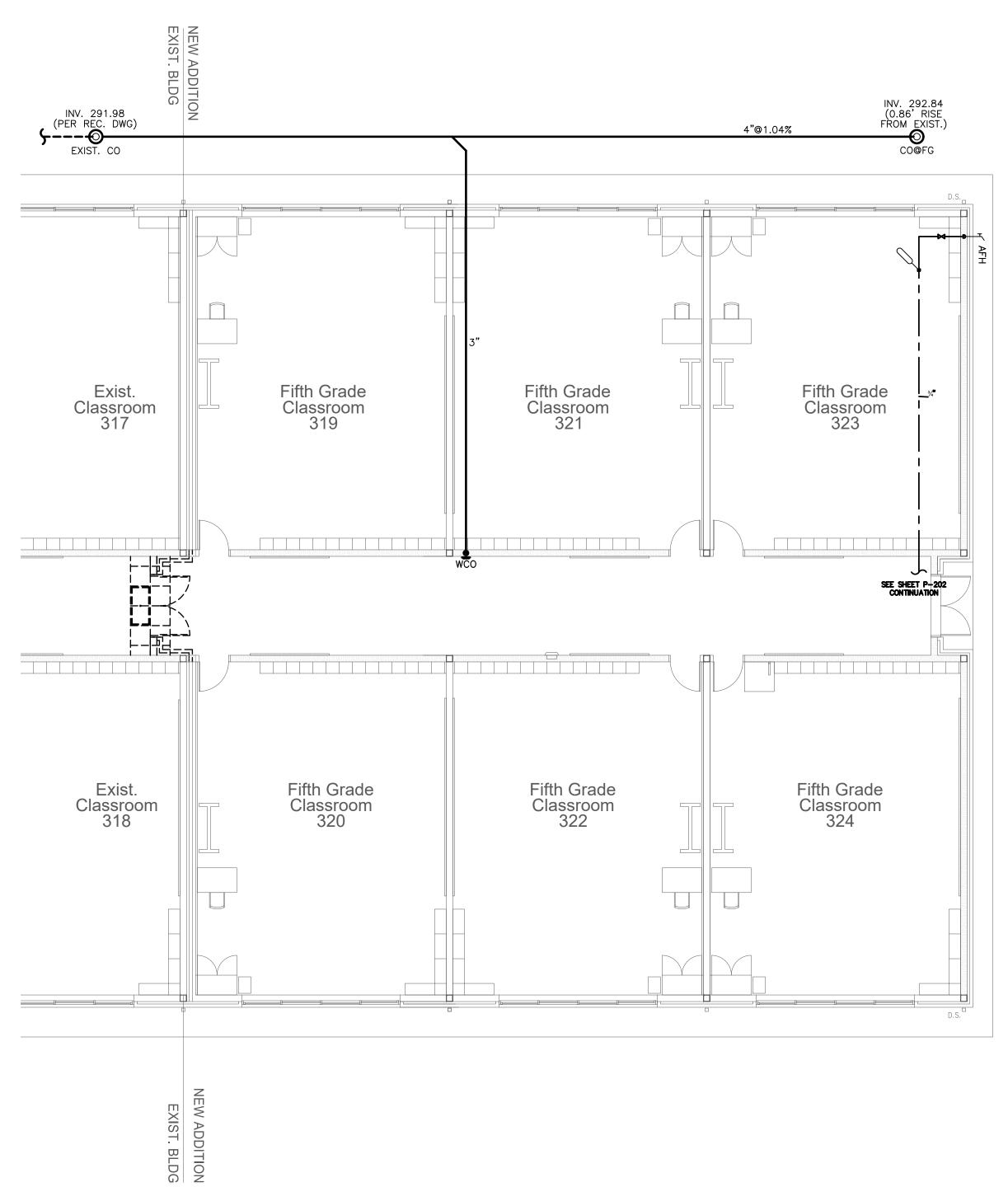
FIXTURE SCHEDULE						
LABEL	PART	MFR	MODEL	DESCRIPTION		
FD	FLOOR DRAIN	ZURN	No. Z415-S	NICKEL BRONZE PLATED SQ. STRAINER		
CO	CLEANOUT	SMITH	No. 4470	CAST BRONZE RECESSED CLEANOUT PLUG		
wco	WALL CLEAN OUT	WADE	No. 8564-E	CAST IRON CLEANOUT TEE WITH SPIGOT INLET / OUTLET AND THREADED BRASS COUNTERSUNK PLUG w/ ." TAP		
	ACCESS COVER	WADE	No. 8480R6	ROUND STAINLESS STEEL ACCESS COVER WITH ." - 20 x 3" CENTER SCREW		
AFH	ANTI-FREEZ HYDRANT	WOODFORD	No. 65EP	ANTI-FREEZE AUTO-DRAIN WALL HYDRANT WITH VACUUM BREAKER LOOSE KEY OPERATION, & ONE-PIECE VALVE PLUNGER. PC SHALL BE RESPONSIBLE FOR PROTECTION OF AFH DURING MASONRY CONSTRUCTION.		
SEE ALSO SPECIFICATION SECTION 15440						



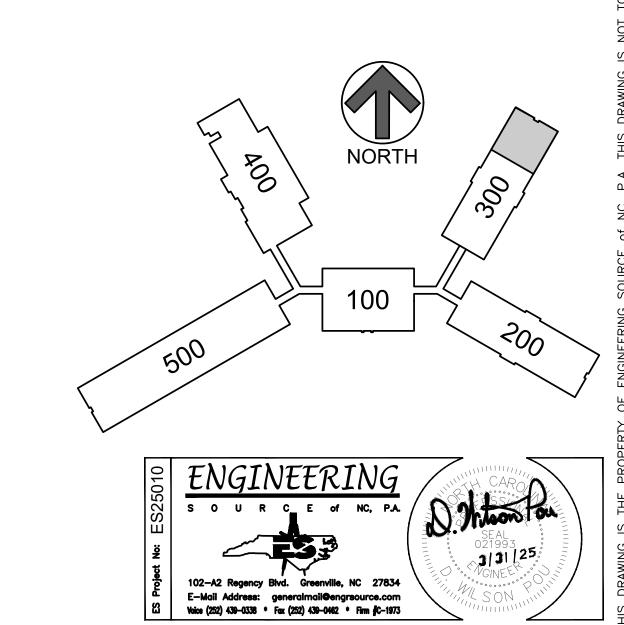
301.2 CLEANOUT @ FINISH GRADE

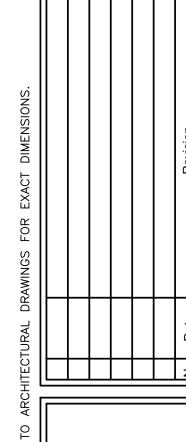


301.3 TRENCH DETAIL

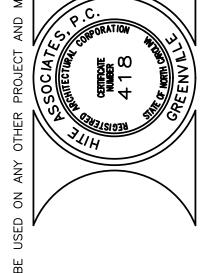


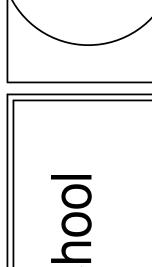
301.1 SANITARY WASTE PLAN: 300 ADDITION SCALE: 1/8" = 1'-0"





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Addition to

Nksgiving Elementary Schools
Johnston County Schools

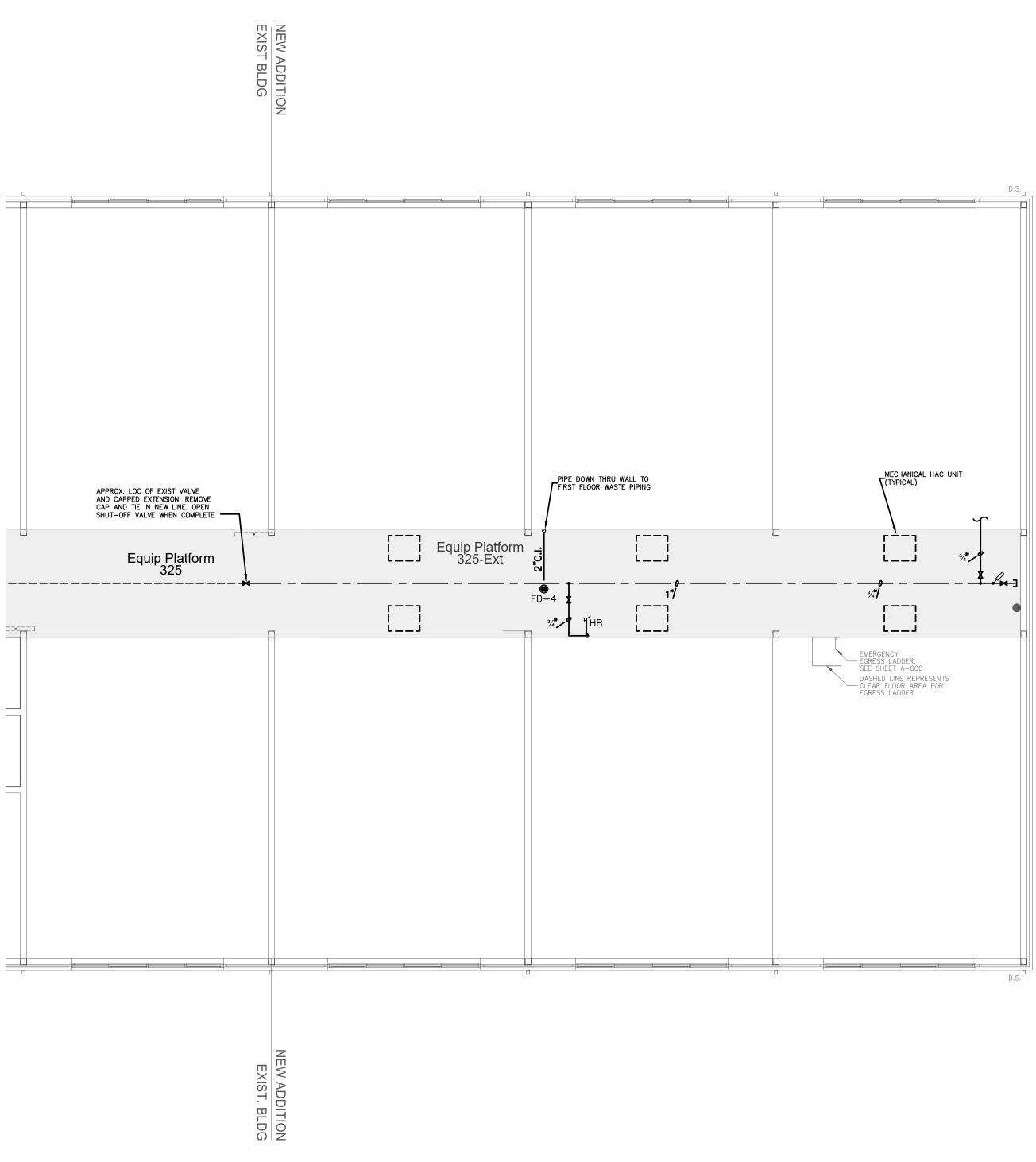
Land / Johnston County / North Carolina

Project No.
22502

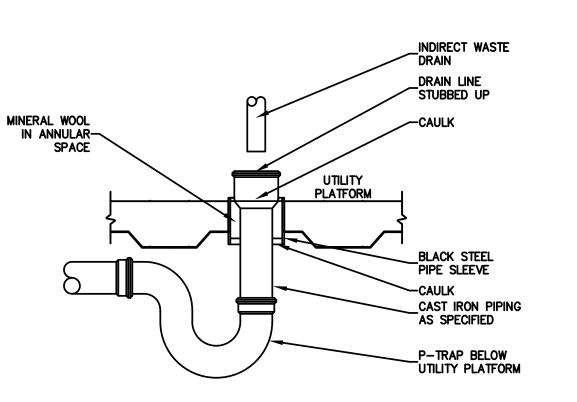
Date:
March 2025

Drawing no.

E—Mail Address: generalmail@engrsource.com Voice (252) 439-0338 ° Fax (252) 439-0462 ° Firm ∦C-1973



310.1 PLUMBING PLAN: 300 ADD'N PLATFORM SCALE: 1/8" = 1'-0"



310.2 "HUB" DRAIN DETAIL SCALE: none

MECHANICAL GENERAL NOTES . REFERENCE ARCHITECTURAL, STRUCTURAL, PLUMBING, & ELECTRICAL DRAWINGS, AND SPECIFICATIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID.

2. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE NC BUILDING CODE & CONTRACTOR. SHALL NOTIFY ENGINEER IN WRITING REGARDING ANY CODE DISCREPANCIES FOUND ON PLANS. CONTRACTOR. IS RESPONSIBLE FOR PERMITS, INSPECTIONS AND FEES. THE CONTROLS CONTRACTOR (C.C.) SHALL PROVIDE ALL CONTROL VALVES, ACTUATORS, DAMPERS, FAN COIL COMBINATION STARTERS. C.C. SHALL PROVIDE ALL LOAD SIDE WIRING ASSOCIATED WITH ALL FAN COIL COMBINATION STARTERS. VALVE TAGS AND LABELING SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR (M.C.).

- 3. DO NOT SCALE THESE DRAWINGS; REFER TO LARGEST SCALE ARCHITECTURAL DRAWINGS. THESE DRAWINGS ARE DIAGRAMMATIC ONLY & ARE NOT INTENDED TO SHOW MINOR DETAILS & EXACT LOCATIONS. DESIGN ADJUSTMENTS SHALL BE ANTICIPATED BY THE CONTRACTORS TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- 4. "PROVIDE" IS DEFINED AS FURNISH & INSTALL AS PER MANUFACTURERS RECOMMENDATIONS.
- 5. THE MECHANICAL & CONTROLS CONTRACTOR SHALL COORDINATE THE INSTALLATION OF HVAC EQUIPMENT & CONTROLS WITH GENERAL CONTRACTOR PRIOR TO INSTALLATION TO AVOID CONFLICT. CONTACT ARCHITECT IF ALTERNATE INSTALLATION METHOD IS
- 6. SYSTEMS INDICATED ON PLANS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL EXAMINE SITE CONDITIONS PRIOR TO DUCT CONSTRUCTION AND COORDINATE INSTALLATION WITH OTHER TRADES. CONTRACTOR SHALL PROVIDE NECESSARY HANGERS, FASTENERS ETC. TO PROVIDE A COMPLETE AND WORKING SYSTEM.
- 7. CONTRACTOR SHALL SEAL ALL DUCTWORK WITH A PAINT ON MASTIC. ALL WALL PENETRATIONS SHALL BE SEALED AIR
- 8. CONTRACTOR SHALL COORDINATE ALL DUCTWORK, DIFFUSER AND GRILLE LOCATION WITH OTHER CEILING MOUNTED DEVICES SHOWN ON THE ARCHITECTURAL REFLECTED CEILING PLAN.
- 9. CONTRACTOR SHALL INSTALL BALANCING DAMPERS IN EACH BRANCH DUCT TO PROVIDE PROPER AIRFLOW TO EACH ZONE. 10. LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 4'-0" A.F.F. (CENTER OF BOX FOR GYP BRD, TOP OF BOX FOR MASONRY) IN LOCATIONS INDICATED ON PLANS.
- 11. ALL DUCT DIMENSIONS ARE INSIDE CLEAR DIMENSIONS.
- 12. CONTRACTOR SHALL COORDINATE ALL ROOF AND FLOOR PENETRATION LOCATIONS AND SIZES.
- 13. FABRICATE AND INSTALL ALL DUCT WORK PER SMACNA 1.5" W.C. PRESSURE. ALL ELBOWS SHALL HAVE 1.5R CENTERLINE. ALL DUCT UNDER SLAB SHALL BE FIBERGLASS.
- 14. ALL DUCT WORK SHALL BE SUPPORTED WITH METAL STRAPS AT LEAST 1" WIDE AND SHALL BE THE SAME GAUGE OR HEAVIER THAN THE DUCT. STRAPPING SHOULD BE SPACED AT NO MORE THAN 64" APART AND SHALL BE SECURELY FASTENED TO THE BUILDING STRUCTURE.
- 15. SUSPEND ALL CEILING MOUNT AIR DISTRIBUTION DEVICES FROM STRUCTURE WITH 12 GA. WIRE. ALL HANGERS AND SUPPORTS TO BE INSTALLED PRIOR TO FIREPROOFING OF ROOF STRUCTURE.
- 16. ALL FLEXIBLE ROUND DUCT SHALL BE PRE—INSULATED DOUBLE WALLED WITH SPIRAL METAL RIB, AND SHALL HAVE MIN. RESISTANCE VALUE OF R-6. MAXIMUM LENGTH SHALL BE 10'-0" UNLESS SHOWN SPECIFICALLY OTHERWISE IN PLAN. SECURE ENDS WITH NYLON BANDS AND TAPE.

17. ALL SUPPLY AND RETURN DUCT SHALL BE INSULATED WITH A MINIMUM OF 2-3/16" 3/4 LB. OR 2" OF 1.0 LB. DENSITY FIBERGLASS WRAP. INSULATED DOUBLE WALLED SPIRAL DUCT SHALL HAVE A MINIMUM INSULATION THICKNESS OF 2" OF 1.5 LB. DENSITY. PIPING INSULATION (REFRIGERANT OR WATER) SHALL BE A MINIMUM OF 1-1/2" THICK OR PER LATEST NC ENERGY CODE, WHICHEVER IS GREATER.

- 18. CABLE TRAY HAS RIGHT-OF-WAY OVER DUCTWORK; SEE ELECTRICAL DRAWINGS FOR LOCATION.
- 19. SIDEWALL SUPPLY REGISTERS AND RETURN GRILLES ARE TO BE INSTALLED PLUMB AND LEVEL ALONG A COMMON ELEVATION. INSULATE BACK OF ALL LAY-IN CEILING SUPPLY REGISTERS AND DIFFUSERS.
- 20. PROVIDE FLEXIBLE CONNECTORS ON SUPPLY AND RETURN CONNECTIONS TO HVAC UNITS.
- 21. PROVIDE AUXILIARY CONDENSATE DRAIN PAN FOR ALL AIR HANDLING UNITS, FAN COIL UNITS, FURNACE WITH COOLING COIL, ETC. CONTRACTOR SHALL PROVIDE AND INSTALL WATER LEVEL FLOAT SWITCH IN AUXILIARY DRAIN PAN. FLOAT SWITCH SHALL SHUT DOWN FAN COIL UNIT WHEN ACTIVATED.
- 22. CONDENSATE PIPE SHALL BE HARD DRAWN COPPER. INSTALL WITH PROPER SLOPE AND NO SAGS. COPPER PIPE SHALL BE INSULATED WITH 1/2" THICK CLOSED CELL INSULATION.
- 23. ALL DUCTWORK AND PIPING SHALL BE CONCEALED ABOVE CEILINGS, TRUSSES AND SOFFITS EXCEPT IN MECHANICAL ROOMS, UTILITY PLATFORMS, AREAS WITH EXPOSED STRUCTURE (NO CEILINGS), AND WHERE NOTED OTHERWISE.
- 24. CONTROLS CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL WIRING AND CONNECTIONS TO MECHANICAL EQUIPMENT.
- 25. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL EXTERNAL DISCONNECTS THAT ARE REQUIRED FOR EQUIPMENT PROVIDED UNDER THIS CONTRACT. MECHANICAL CONTRACTOR SHALL FURNISH ALL REQUIRED FUSES FOR ALL FUSED DISCONNECT SWITCHES. COORDINATE DISCONNECT AND FUSE INSTALLATION WITH ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING DISCONNECT SWITCHES AND FUSES. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL LINE SIDE WIRING AND CONDUIT TO EXTERNALLY OR INTERNALLY MOUNTED DISCONNECTS AND SHALL PROVIDE AND INSTALL LOAD SIDE WIRING AND CONDUIT FROM EXTERNALLY MOUNTED DISCONNECT SWITCHES TO MECHANICAL EQUIPMENT. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT PROVIDED BY THE MECHANICAL CONTRACTOR. SEE "MECHANICAL EQUIPMENT ELECTRICAL CONNECTION DETAIL".
- 26. DISCONNECT SWITCHES INDICATED TO BE PROVIDED BY MECHANICAL CONTRACTOR SHALL BE HEAVY DUTY NEMA-1 FOR INTERIOR APPLICATIONS AND HEAVY DUTY NEMA-3R FOR EXTERIOR INSTALLATIONS. SEE ALSO DIVISION 16 SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- 27. MECHANICAL CONTRACTOR MAY USE ROUND DUCT OF EQUIV. AREA IN LIEU OF RECTANGULAR. COOR'D. ROUND DUCT SIZES W/ ENGINEER. USE INSULATED DOUBLE WALLED SPIRAL DUCT WITH PAINT GRIP FINISH WHERE DUCT IS TO BE EXPOSED.
- 28. MECHANICAL CONTRACTOR SHALL PROVIDE ENGR. WITH AN AIR BALANCE REPORT INDICATING INITIAL AND FINAL READINGS AT EACH DIFFUSER AND TOTAL CFM PER UNIT. INCLUDE IN DOCUMENTS PROVIDED TO OWNER AT JOB CLOSEOUT.
- 29. MECHANICAL CONTRACTOR SHALL LABEL ALL EQUIPMENT WITH ENGRAVED PLASTIC LAMINATE, SCREWED TO PIECE OF
- 30. M.C. SHALL COORDINATE ALL EXTERIOR MECHANICAL EQUIPMENT LOCATIONS WITH G.C. PRIOR TO INSTALLATION AND SHALL PROVIDE 3'-0" MIN. SERVICE CLEARANCE OR MANUFACTURER'S RECOMMENDATIONS, WHICHEVER IS GREATER, BETWEEN ALL MECHANICAL EQUIPMENT AND ALL OBSTRUCTIONS. IF THERE ARE MECHANICAL ENCLOSURES OR FENCING, M.C. SHALL COORDINATE THE SIZES AND CLEARANCES IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION MANUAL AND PROVIDE 3'-0" MIN. CLEARANCE OR MANUFACTURER'S RECOMMENDED CLEARANCES, WHICHEVER IS GREATER. M.C. SHALL VERIFY AND COORDINATE THAT FENCING BEING PROVIDED BY G.C. IS APPROVED FOR OPERATION WITH THE MECHANICAL EQUIPMENT MANUFACTURER. FENCING AND CLEARANCE DIMENSIONS SHOWN ON THESE PLANS ARE DIAGRAMMATIC ONLY. IF CHANGES TO FENCE SIZES AND UNIT CLEARANCES ARE NEEDED, THE M.C. SHALL BE RESPONSIBLE FOR NOTIFYING THE G.C. AND THE ENGINEER/ARCHITECT.
- 31. UNIT CONTROLLER OR PROGRAMMABLE THERMOSTAT SHALL HAVE 7 DAY PROGRAMING, TIMED OVER—RIDE AND THE ABILITY TO RUN FANS IN OCCUP. MODE & CYCLE FANS IN UN-OCCUP. MODE.
- 32. THE M.C. & C.C. SHALL PROTECT EQUIPMENT DURING CONSTRUCTION & BRAZING AS REQ'D. CLEAN ALL EQUIP. SURFACES OF GREASE, DIRT, DUST, & OTHER FOREIGN MATERIALS PRIOR TO PROJECT CLOSEOUT.
- 33. MECHANICAL CONTRACTOR SHALL CHANGE UNIT FILTERS AFTER EACH TWO WEEKS OF RUN TIME, AND SHALL LEAVE ONE CHANGE OF FILTERS FOR OWNER TO USE FOR NEXT FILTER CHANGE.
- 34. MECHANICAL CONTRACTOR SHALL NOT ALLOW DUCTWORK TO CONTACT LAY-IN LIGHT FIXTURES. ROUTE ACCORDINGLY.

35. MECHANICAL CONTRACTOR SHALL INSTALL DUCT MOUNTED SMOKE DETECTORS WHERE INDICATED ON PLANS. IF AN EXISTING FIRE ALARM SYSTEM IS PRESENT, DUCT DETECTORS SHALL BE CONNECTED TO EXISTING FIRE ALARM SYSTEM. MECHANICAL CONTRACTOR SHALL COORDINATE CONNECTION TO FIRE ALARM SYSTEM WITH ELECTRICAL CONTRACTOR AND/OR FIRE ALARM CONTRACTOR. IF A FIRE ALARM SYSTEM IS NOT PRESENT, PROVIDE DETECTOR & ASSOCIATED HORN/STROBE ALARM (HONEYWELL RTS2-AOS MULTI-SIGNALING) AS REQUIRED BY N.C. MECHANICAL CODE SECTION 606.4.1. M.C. IS RESPONSIBLE FOR DUCT ACCESS DOORS UNDER ALL CIRCUMSTANCES.

## MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE:

ENERGY COST BUDGET PRESCRIPTIVE 🛛

CLIMATE ZONE: IBC - 3A (JOHNSTON CO.)

THERMAL ZONE WINTER DRY BULB: 18.8°F SUMMER DRY BULB: 91.7°F

INTERIOR DESIGN CONDITIONS WINTER DRY BULB: 70°F SUMMER DRY BULB: 75°F RELATIVE HUMIDITY: 50%

BUILDING HEATING LOAD: 239.4 MBH BUILDING COOLING LOAD: 264.0 MBH

MECHANICAL SPACE CONDITIONING SYSTEM DESCRIPTION OF UNIT: HEATING EFFICIENCY: COOLING EFFICIENCY:

COOLING OUTPUT OF UNIT: SEE SCHEDULE TOTAL BOILER OUTPUT: EXISTING TO REMAIN

TOTAL CHILLER OUTPUT: EXISTING TO REMAIN

LIST EQUIPMENT EFFICIENCIES

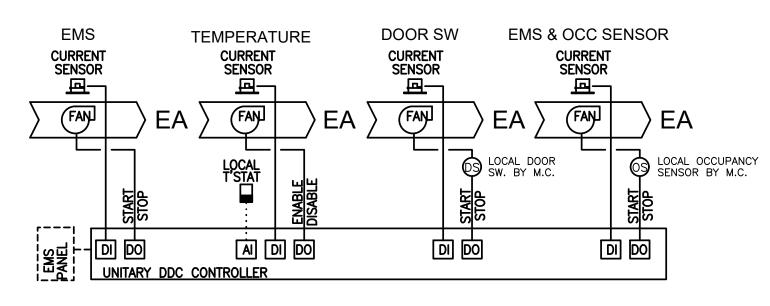
EQUIPMENT SCHEDULES WITH MOTORS (Not used for mechanical systems) MOTOR HORSEPOWER: NUMBER OF PHASES MINIMUM EFFICIENCY: MOTOR TYPE:

# OF POLES: DESIGNER STATEMENT:

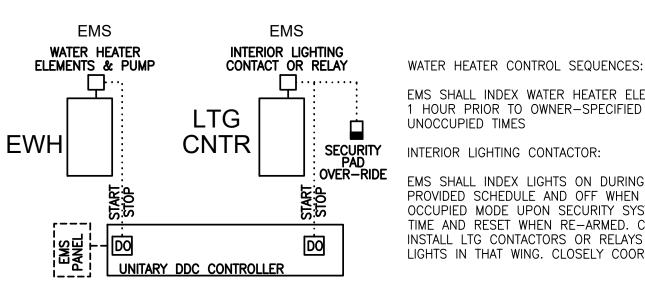
To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the 2012 North Carolina energy conservation code.

SIGNED: _	D Nitron Pou
NAME:	D. WILSON POU, P.E.
TITLE:	PRESIDENT

MARK	SIZE/NECK	MFR/MODEL	CFM/FPM	NC	REMARKS
Α	24"x24"/12"ø	TITUS/TDC-AA	400/800	<30	LAY-IN CEILING DIFFUSER WITH 4-WAY DEFLECTION; ALUMINUM CONSTRUCTION
AG	24"x24"/12"ø	TITUS/TDC-AA	400/800	<30	SURFACE MOUNTED CEILING DIFFUSER WITH 4-WAY DEFLECTION; ALUMINUM CONSTRUCTION
В	24"x24"/8"ø	TITUS/TDC-AA	200/600	<20	LAY-IN CEILING DIFFUSER WITH 4-WAY DEFLECTION; ALUMINUM CONSTRUCTION
BG	24"x24"/8"ø	TITUS/TDC-AA	200/600	<20	SURFACE MOUNTED CEILING DIFFUSER WITH 4-WAY DEFLECTION; ALUMINUM CONSTRUCTION
С	24"x24"/6"ø	TITUS/TDC-AA	100/600	<20	LAY-IN CEILING DIFFUSER WITH 4-WAY DEFLECTION; ALUMINUM CONSTRUCTION
CG	24"x24"/6"ø	TITUS/TDC-AA	100/600	<20	SURFACE MOUNTED CEILING DIFFUSER WITH 4-WAY DEFLECTION; ALUMINUM CONSTRUCTION
G	36"x12"/14"x14"	TITUS/272FS	1325/500	<20	SURFACE MOUNTED DOUBLE DEFLECTION SUPPLY GRILLE; ALUMINUM CONSTRUCTION
L	6"x48"/10"ø	TITUS/MLT	250/250	<30	PLENUM SLOT SUPPLY DIFFUSER AND PLENUM W/ (3)-1" ADJUSTABLE SLOTS
S	18"X8"/10"ø	TITUS/S300FL	500/600	<25	DUCT MOUNTED DOUBLE DEFLECTION SUPPLY GRILLE; ALUMINUM CONSTRUCTION
R1	24"x24"/12"x12"	TITUS/50F	550/650	<20	LAY-IN LOUVERED FACE RETURN WITH BLADES @ 1/2" O.C. ALUMINUM CONSTRUCTION
R1G	24"x24"/12"x12"	TITUS/50F	550/650	<20	SURFACE MOUNTED LOUVERED FACE RETURN WITH BLADES @ 1/2" O.C. ALUMINUM CONSTRUCTION
R2	24"x24"/22"x22"	TITUS/50F	2000/700	<20	LAY-IN LOUVERED FACE RETURN WITH BLADES @ 1/2" O.C. ALUMINUM CONSTRUCTION
R2G	24"x24"/22"x22"	TITUS/50F	2000/700	<20	SURFACE MOUNTED LOUVERED FACE RETURN WITH BLADES @ 1/2" O.C. ALUMINUM CONSTRUCTION
R3	36"x30"/24"x24"	TITUS/350RL	3600/500	<20	SURFACE MOUNTED LOUVERED FACE RETURN WITH BLADES @ 3/4" O.C. ALUMINUM CONSTRUCTION
Х	24"x24"/14"x14"	TITUS/50F	850/700	<20	LAY-IN LOUVERED FACE RETURN WITH BLADES @ 1/2" O.C. ALUMINUM CONSTRUCTION
XD	12"x4"/8"ø	TITUS/US8F	150/600	<20	DUCT MOUNTED PERFORATED GRILLE; ALUMINUM CONSTRUCTION
XG	24"x24"/22"x22"	TITUS/50F	2000/700	<20	SURFACE MOUNTED LOUVERED FACE RETURN WITH BLADES @ 1/2" O.C. ALUMINUM CONSTRUCTION
(2) KRI (3) PRI (4) PRI (5) PRI	L FINISHES TO BE WHITE UEGER, METAL*AIRE, TUT OVIDE SQUARE TO ROUN OVIDE WHITE FINISH FAS	TLE & BAILEY, & CAR ID TRANSITIONS WHERE TENERS AS REQUIRED. DAMPER FOR TYPE "D"	NES ARE CONSID REQUIRED. SUPPLY GRILLES	s. PROVIDI	ABBREVIATIONS: BDD: BACK DRAFT DAMPER OBD: OPPOSED BLADE DAMPER FPM: VELOCITY (ft/min) NC: NOISE CRITERIA  E TITUS MODEL # AG-95 OR EQUIVALENT.



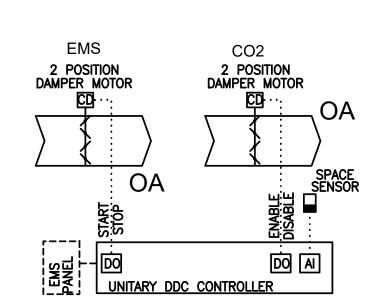
MISC FAN CONTROLS



EMS SHALL INDEX WATER HEATER ELEMENTS AND RECIRCULATION PUMPS ON 1 HOUR PRIOR TO OWNER-SPECIFIED OCCUPIED HOURS AND INDEX OFF DURING

EMS SHALL INDEX LIGHTS ON DURING OCCUPIED HOURS BASED ON OWNER PROVIDED SCHEDULE AND OFF WHEN UNOCCUPIED. OVER-RIDE BUILDING TO OCCUPIED MODE UPON SECURITY SYSTEM BEING DISARMED DURING UNOCCUPIED TIME AND RESET WHEN RE-ARMED. CONTROLS CONTRACTOR SHALL PROVIDE AND INSTALL LTG CONTACTORS OR RELAYS IN EACH WING AS REQ'D TO CONTROL THE LIGHTS IN THAT WING. CLOSELY COORDINATE WITH E.C. PRIOR TO ROUGH-IN.

## EQUIPMENT ON TIME CLOCK CONTROL SCALE: NONE



EXHAUST FAN CONTROL SEQUENCES: EMS CONTROL: EMS SHALL INDEX DAMPER OPEN DURING OWNER-SPECIFIED OCCUPIED HOURS AND DRIVE DAMPER CLOSED DURING UNOCCUPIED TIMES. MAINTAIN CLOSED POSITION DURING MORNING WARM-UP. (SEE ALSO UNIT SEQ.) CO2 CONTROL: EMS SHALL INDEX DAMPER OPEN DURING OWNER-SPECIFIED OCCUPIED HOURS TO COINCIDE WITH UNIT OUTDOOR AIR DAMPER CONTROL AND DRIVE DAMPER CLOSED DURING UNOCCUPIED TIMES. DAMPER SHALL BE INDEXED OPEN REGARDLESS OF SCHEDULE UPON SPACE CO2 SENSOR SENSING A CO2 LEVEL ABOVE SET POINT (700 PPM).

001.3 OUTSIDE AIR LOUVER DAMPER CONTROL

					OUVE	R SCH	HEDULE			
										•
MARK	SERVICE	SIZE	FREE	CFM	FPM	ELECT	CONTROL	COLOR	MODEL NO./DESCRIPTION	NOTES
LV-EX	EXISTING BLDG 300 OUTSIDE AIR	24x24	1.92	900	469	24 VOLT	EMS	TO BE DETERMINED	RUSKIN ELF375DX	6
LV-3B	BLDG 300 ADD'N OUTSIDE AIR	36x30	3.60	2,000	525	24 VOLT	EMS	TO BE DETERMINED	RUSKIN ELF375DX	1-5
(2) F (3) S (4) P (5) F	S: OUVERS AND DAMPERS MEETING OR EXCEEDING A OR CESCO PROVIDE EXTENDED SILL, CLIP ANGLES, & INSEC EE DETAILS PROVIDE FACTORY FINISH AS SPECIFIED — (2) O PROVIDE WITH MANUFACTURERS MOTORIZED O.B. OFFER EXISTING LOUVER TO OWNER FOR SALVAC	CT SCREEN. COLORS SELECT D.	ED BY ARCHITECT.			O/A = OUTSIDE AIR FREE = EFFECTIVE FREE SIZE = WIDTH x HEIGH EMS = INDEXED BY EN FPM = AIR VELOCITY ( C.D. = CONTROL DAMP B.D.D. = BACKDRAFT DAM ELECT/CONT'L = ELECT COLOR NO. 1 = BRICK COLOR NO. 2 = EIFS (	E AREA (SQ. FT.) T (INCHES) IERGY MANAGEMENT SYSTEM FT/MIN) ER by EMS Cont'r MPER RICAL / CONTROL COLOR COLOR			

				В	LC	VC	VEI	R	C	OII	_	EC	QU	IPI	VI	E	N	T	S	Cl	H	ED	UL	.E		
	SYSTEM	AIR	DATA				COOLING	DATA	١					HEA	TING D	ΑТА					MC	OTOR DATA			EQUIPMENT DATA	
TAG	ZONE	CFM	OA	TCL	SC	EATdb	LATdb Δ	Tdb	GPM	LWT CON	N PE	CFM	1 HEAT	EAT L	AT LV	VT G	SPM C	CONN	PD	ESP	НР	мса мо	CP ELECT	DESCRIPTION	MFR./MODEL NO.	ROWS NOTES WEIGHT
BC-319	CLASSROOM 319	1400	250	42	34.6	77.8	55.0 2	22.8	6	56.0 1"	10	1000	47.2	61.5 10	5.0 12	3.1	3.5	1"	10 1	L.25	1	8.63 15	277/10	VERTICAL BLOWER COIL	ENVIRO-TEC/VDD16	6/2
BC-320	CLASSROOM 320	1400	250	42	34.6	77.8	55.0 2	22.8	6	56.0 1"	10	1000	47.2	61.5 10	5.0 12	3.1	3.5	1"	10 1	L.25	1	8.63 15	277/10	VERTICAL BLOWER COIL	ENVIRO-TEC/VDD16	6/2
BC-321	CLASSROOM 321	1600	250	48	38.7	77.3	55.0 2	22.3	7	55.7 1-1/4	1" 10	1200	55.1	62.7 10	5.0 12	2.5	4	1"	10	L.25	1	8.63 15	277/10	VERTICAL BLOWER COIL	ENVIRO-TEC/VDD16	6/2
BC-322	CLASSROOM 322	1400	250	42	34.6	77.8	55.0 2	22.8	6	56.0 1"	10	1000	47.2	61.5 10	5.0 12	3.1	3.5	1"	10 1	L.25	1	8.63	277/10	VERTICAL BLOWER COIL	ENVIRO-TEC/VDD16	6/2
BC-323	CLASSROOM 323	1400	250	42	34.6	77.8	55.0 2	22.8	6	56.0 1"	10	1000	47.2	61.5 10	5.0 12	3.1	3.5	1"	10 1	L.25	1	8.63	277/10	VERTICAL BLOWER COIL	ENVIRO-TEC/VDD16	6/2
BC324	CLASSROOM 324	1600	250	48	38.7	77.3	55.0 2	22.3	7	55.7 1-1/4	1" 10	1200	55.1	62.7 10	5.0 12	2.5	4	1"	10 1	L.25	1	8.63 15	277/10	VERTICAL BLOWER COIL	ENVIRO-TEC/VDD16	6/2
NOTES:	LING LOAD, STRICIPLE COOLING LOAD, AND HEAT		<u> </u>	I										1 1	I			I				l l		<u> </u>		

1) TOTAL COOLING LOAD, SENSIBLE COOLING LOAD, AND HEATING LOAD UNITS ARE MBtuH. COOLING LOADS INCLUDES VENTILATION. HEAT FAN. & PLENUM HEAT GAIN DURING NON-SIMILITANFOLIS PEAK OPERATION W/O INCLUSION OF ZONE DIVERSITY EXTERIOR DESIGN CONDITIONS: WINTER DRY BULB = 18°F; SUMMER DRY BULB = 93°F; MEA COINCIDENT WET BULB = 75°F 2) REFERENCE SPECIFICATION SECTIONS 15850, 15855, 15857 FOR EQUIPMENT AND ACCESSORIES.
3) M.C. SHALL PROVIDE UNIT WITH COMBINATION STARTER WITH INTEGRAL DISCONNECT. SEE ALSO EQUIPMENT INSTALLATION DETAILS FOR ACCESSORIES, OPTIONS, ETC. 4) CHILLED WATER: EWT = 42.0 F. LWT = 56.05) hot water: ewt = 160.0 f, lwt = 130.0 f (install in reheat position) CONTRACTOR RESPONSIBLE FOR LEFT OR RIGHT HAND MOTOR/BLOWER ASS'Y SELECTION

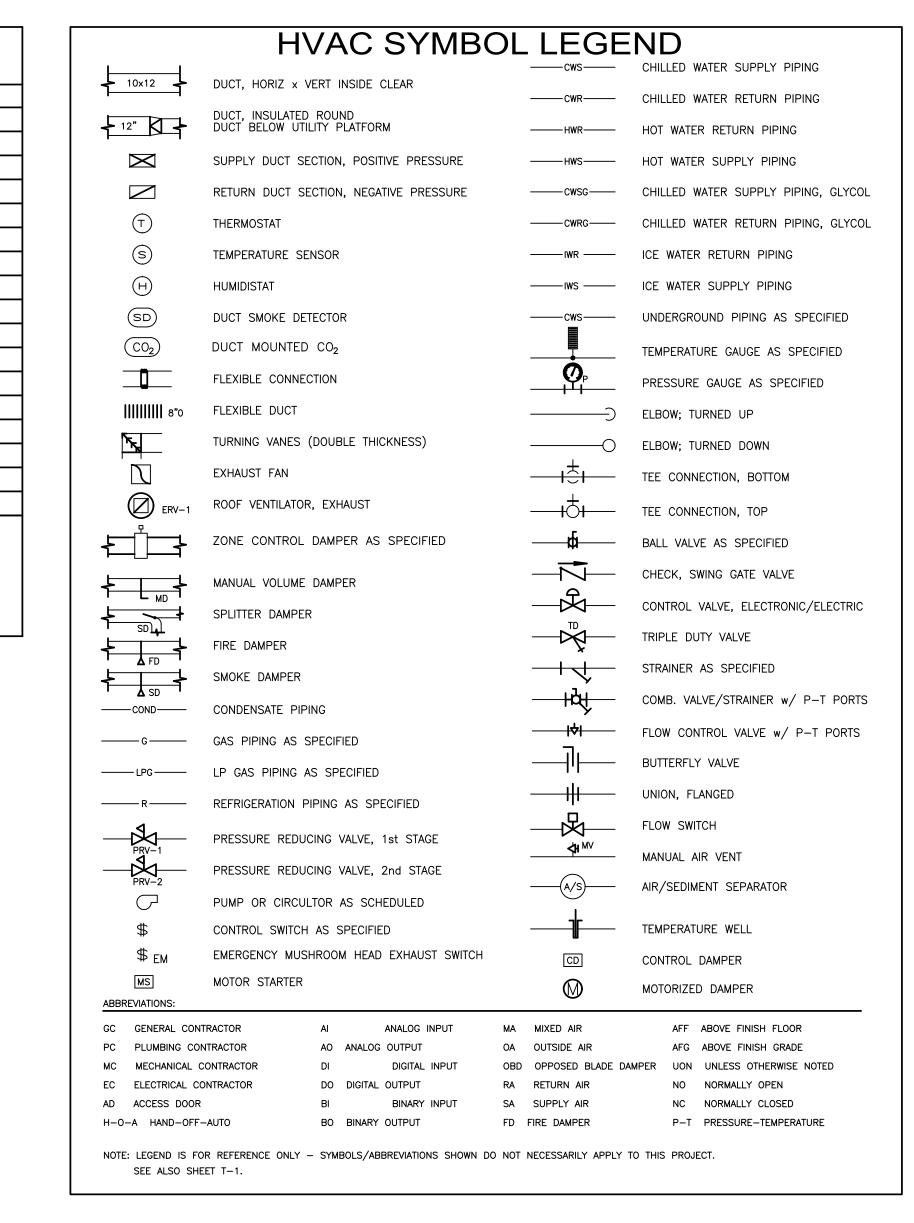
SHUT DOWN UNIT FAN AND CLOSE HYDRONIC VALVES UPON ACTIVATION.

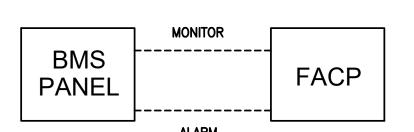
7) FAN COIL UNITS; CHILLED WATER VALVES PROVIDED AS TWO POSITION, HOT WATER VALVES PROVIDED AS MODULATING FOR RE-HEAT. B) PROVIDE SPARE BLOWER MOTORS FOR FAN COIL UNITS; QTY. (1) 1HP TO JOHNSTON CO. PLANT OPERATIONS. )) Controls contractor shall provide fan Status inputs with all fan Coils. D) SEE FORM OF PROPOSAL FOR ALTERNATE BIDS.

PROVIDE UNIT WITH DIRECT DRIVE VARIABLE SPEED ECM MOTOR OR DIRECT DRIVE FAN MOTOR WITH VARIABLE FREQUENCY DRIVE.

) provide unit with auxiliary emergency drain pan and condensate float switch mounted to drain pan, float switch shall

TCL = TOTAL COOLING LOAD (MBtuH) SC = SENSIBLE COOLING (MBtuH) HEAT= HEAT LOAD (MBtuH) GPM = GALLONS PER MINUTE CONN = PIPE SIZE (in.) / SEE MANUF. RLA = RATED LOAD AMPS LRA = LOCKED ROTOR AMPS FLA = FAN MOTOR FULL LOAD AMPS CFM = CUBIC FOOT PER MINUTE OA = OUTSIDE AIR (cfm) MCA = MINIMUM CIRCUIT AMPACITY (AMPS) LATdb = LEAVING DRY BULB AIR TEMP (°F) LATWD = LEAVING WET BULB AIR TEMP ( EATOB = ENTERING DRY BULB AIR TEMP ( EATWD = ENTERING WET BULB AIR TEMP. (°F) FC = FAN COIL UNIT AHU = AIR HANDLER UNIT ESP = EXTERNAL STATIC PRESSURE (IN WG) LWT = ESTIMATED LEAVING WATER TEMP ("F HP = AHU MFR STD MOTOR ROWS = No. COIL ROWS C/HW HORIZ.= HORIZONTAL UNIT POSITION KW = POWER INPUT (WATTS X 1000) 1/6\* = QUANTITY OF TWO





UPON RECEIPT OF AN ALARM SIGNAL FROM THE FACP, THE BMS SHALL SHUT DOWN ALL AIR MOVING UNITS (AHU, FC, RTU, ETC.) IN A SAFE MANNER THAT WILL PREVENT ANY DÁMAGE TO CHILLERS. PUMPS, CONDENSING UNITS, BOILERS, ETC. SYSTEM SHALL RETURN TO NORMAL OPERATION UPON CANCELLATION OF ALARM. FIRE DRILL MODE SHALL NOT ACTIVATE GLOBAL FAN

## GLOBAL FAN SHUT-DOWN

CLASSROOM FAN COIL CONTROL SEQUENCE

The BAS shall index the system during the scheduled occupied and setback periods. Each building shall be a zone for occupancy scheduling and timed override operation. Upon the space sensor override button being pressed, the unit shall run as in occupied mode except the outside air damper shall remain closed.

SUPPLY FAN CONTROL: The unit fan shall run continuously during occupied times and cycle during unoccupied times.

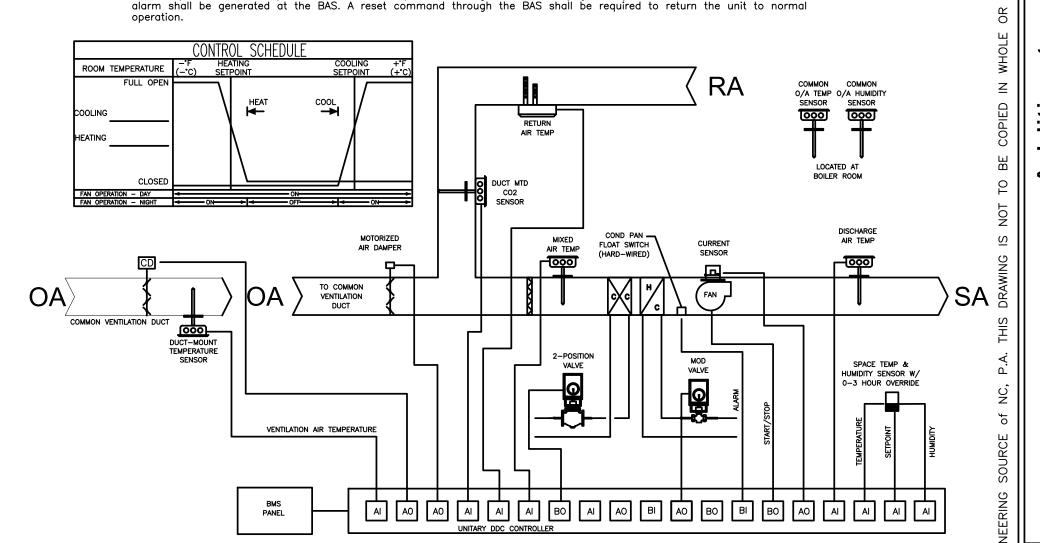
The chilled water valve shall cycle to maintain the space temperature setpoint cooling setpoint during occupied hours and the space setup temperature setpoint during unoccupied hours. The hot water valve shall modulate to maintain the space temperature heating setpoint during occupied hours and the space setback temperature setpoint during unoccupied hours.

If the space temperature setpoint is satisfied and the space humidity exceeds the setpoint of 60% RH (adjustable), the chilled water valve shall open and the hot water valve shall modulate to maintain a supply air temperature of 70 °F (adjustable) until the space humidity falls below the setpoint.

The common outside air damper shall open during occupied school hours. The unit outside air damper shall modulate open to the position corresponding to the minimum outside air as determined by TAB at startup. On a rise in CO2 levels above the setpoint of 700 ppm, the unit outside air damper shall open to the position corresponding to maximum outside air. The unit outside air damper shall close during night setback or setup and during morning warm—up. The minimum and maximum outside air damper positions shall be determined by TAB at startup.

Local exhaust fans shall run when the unit outside air damper is open. High Condensate Level: The BAS shall disable system operation and generate an alarm on system shutdown. Fire Alarm: Upon a signal from the fire alarm panel, the unit shall enter the shutdown mode.

Fan Failure: Upon a lack of fan proof or system shutdown, an alarm shall be generated at the BAS. Low Temperature Alarm: Upon the mixed air temperature falling below 38 °F (adjustable), the unit shall shutdown, and an



001.5 TYPICAL BLOWER COIL CONTROL DIAGRAM



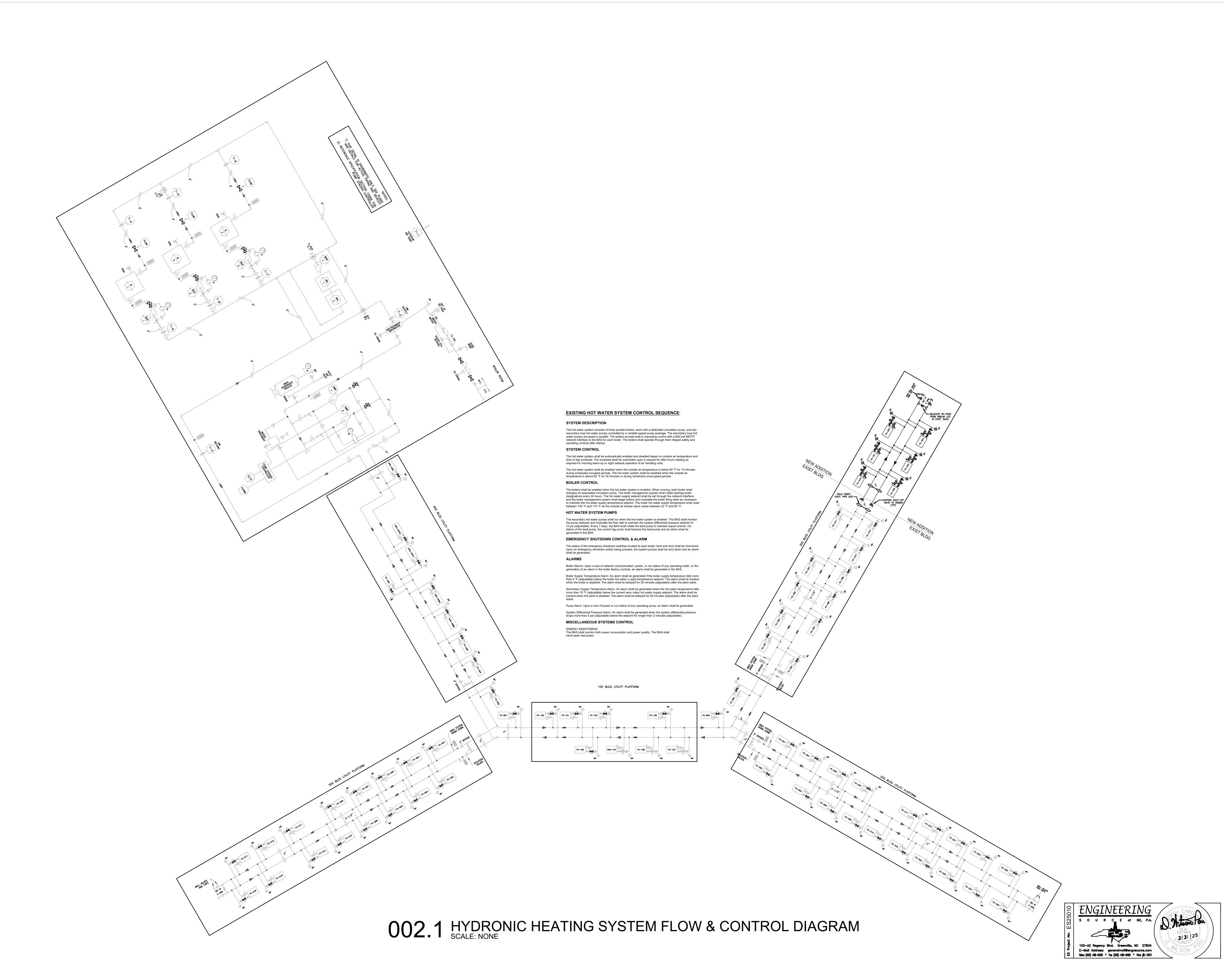
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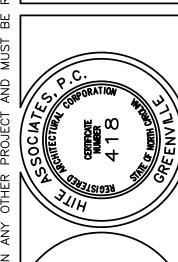
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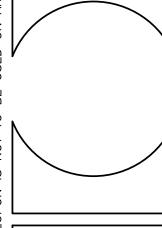
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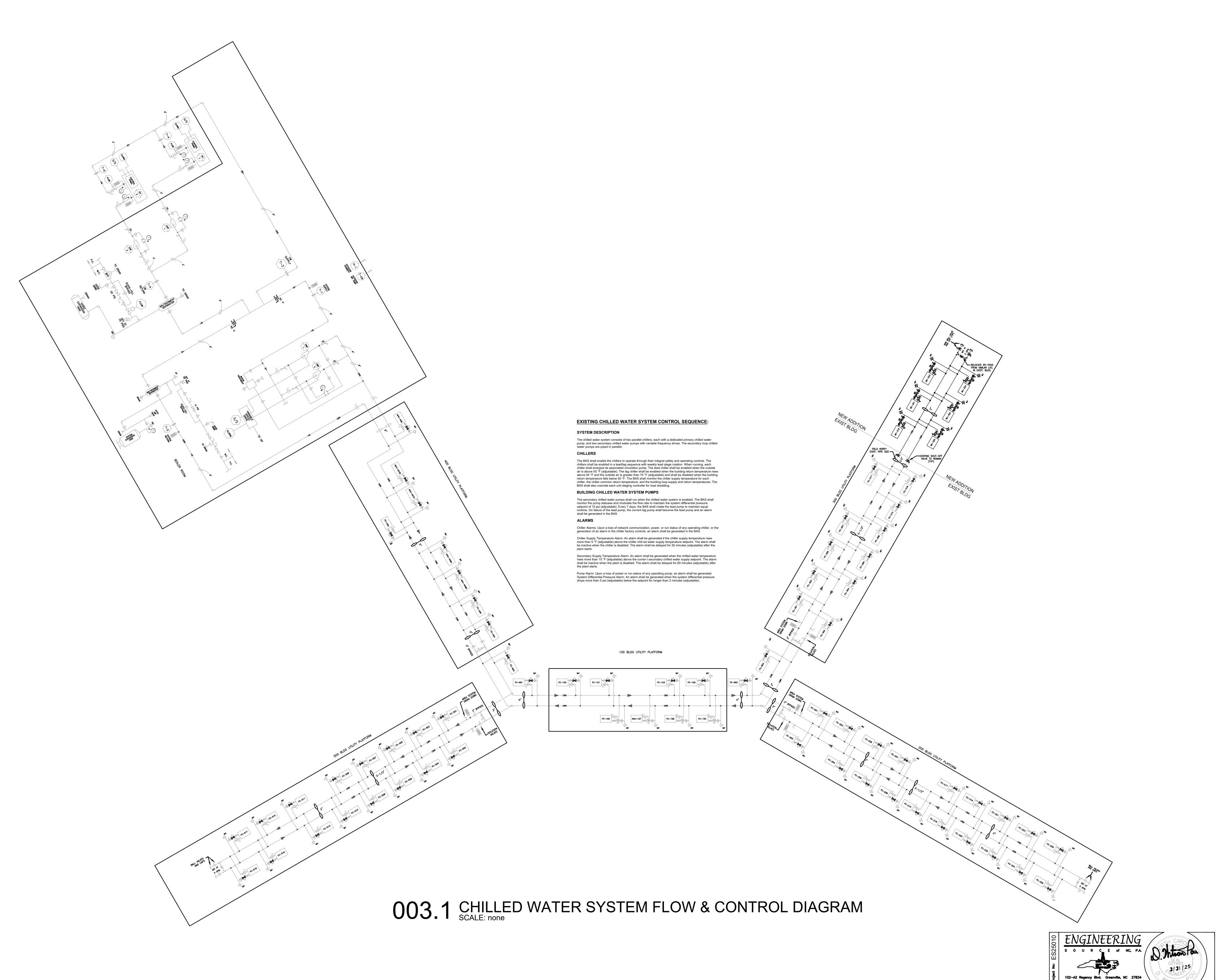
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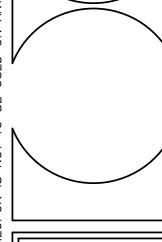
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AWINGS, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DIME

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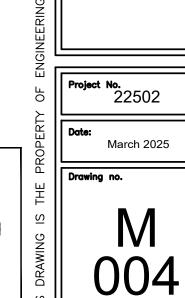
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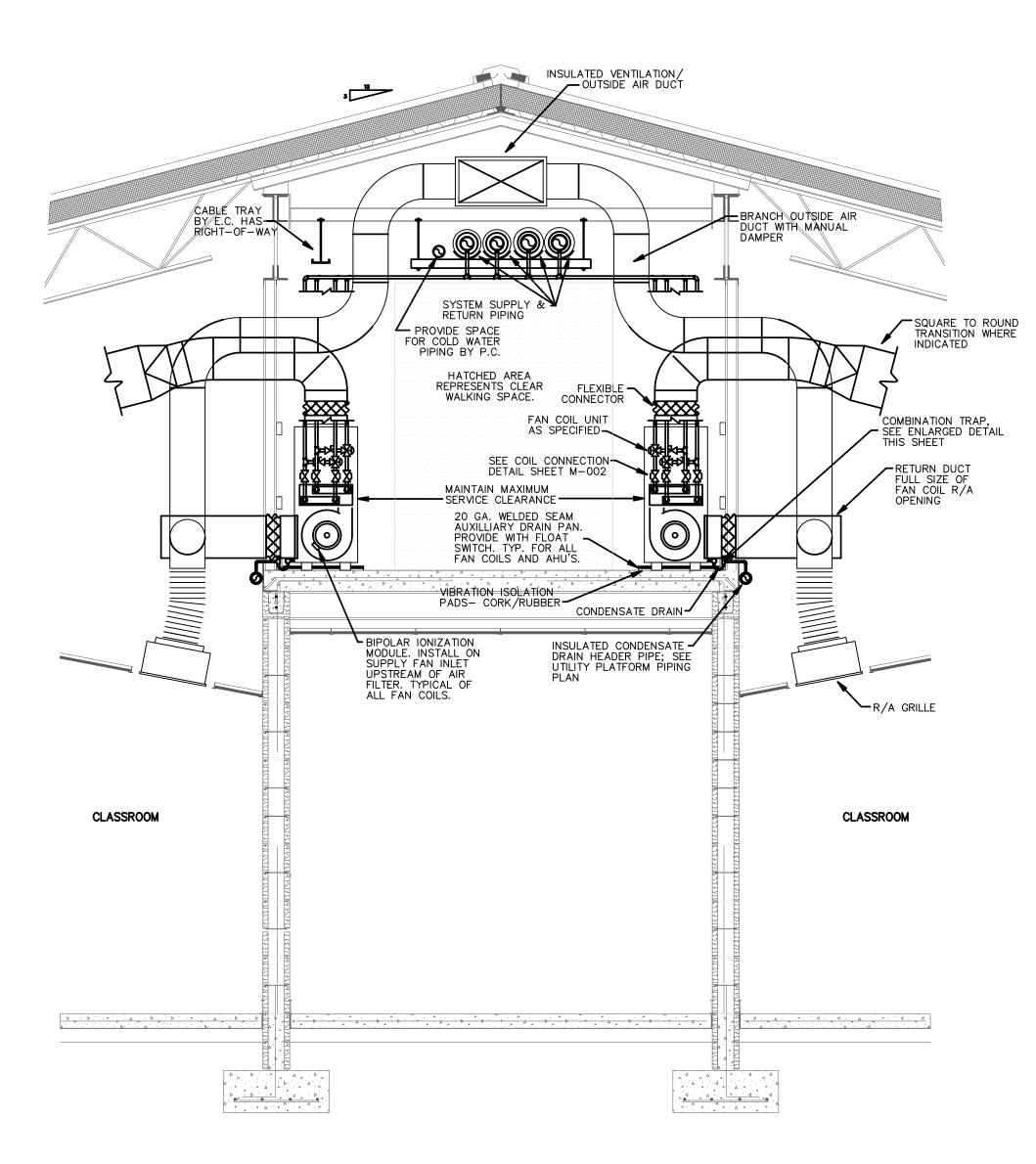
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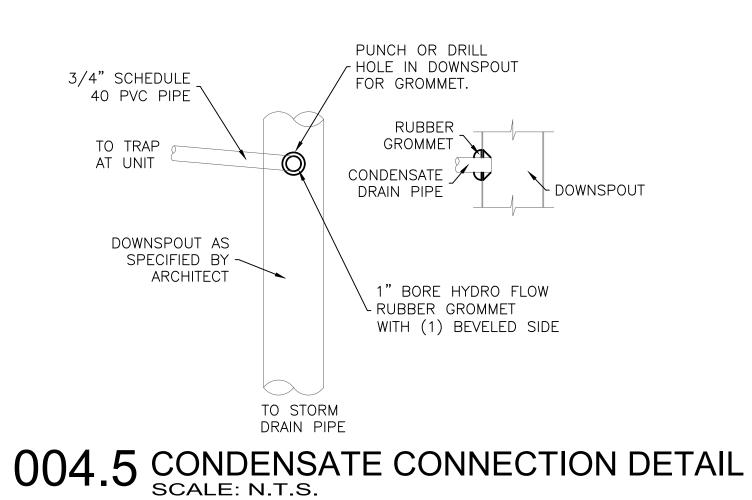
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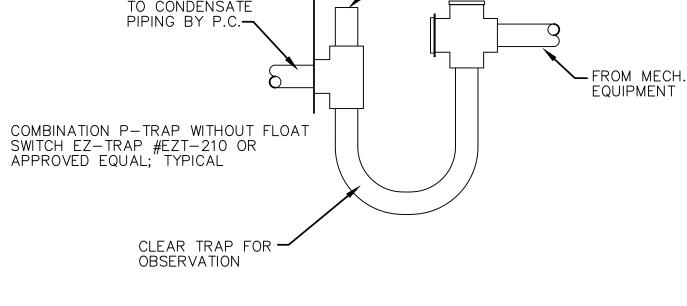




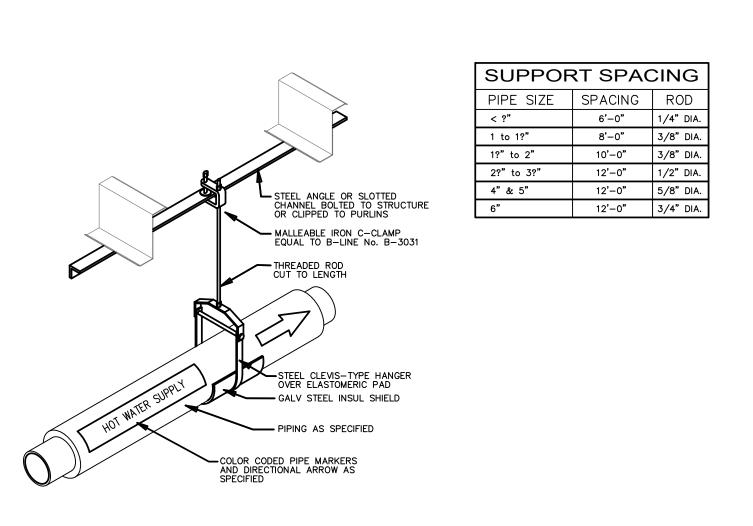
004.1 SECTION AT PLATFORMS



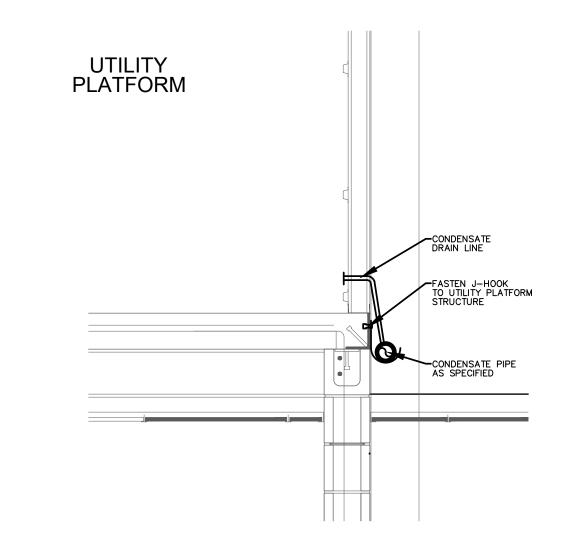
TO CONDENSATE PIPING BY P.C.



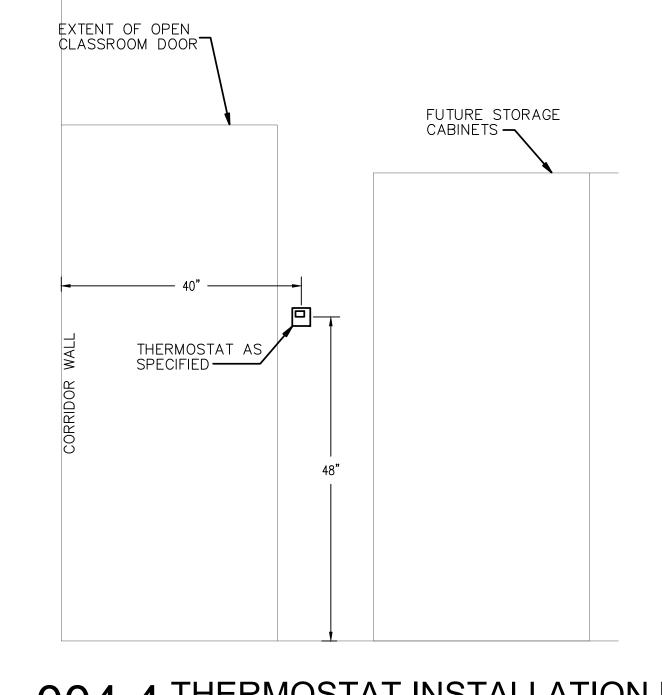
004.9 CONDENSTATE TRAP DETAIL SCALE: N.T.S.



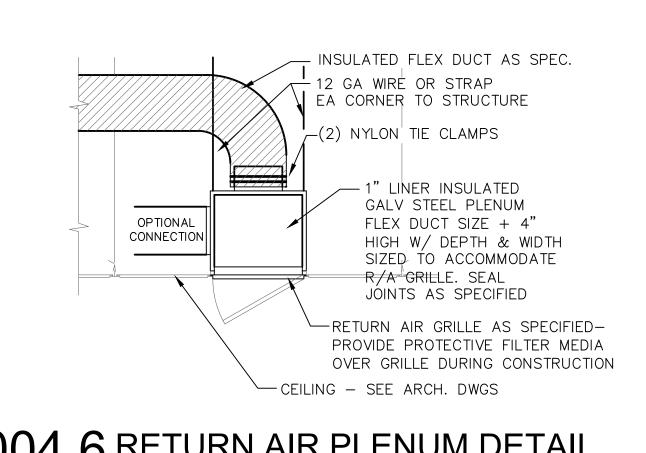
004.2 HTDRONIC PIPE HANGAR DETAIL



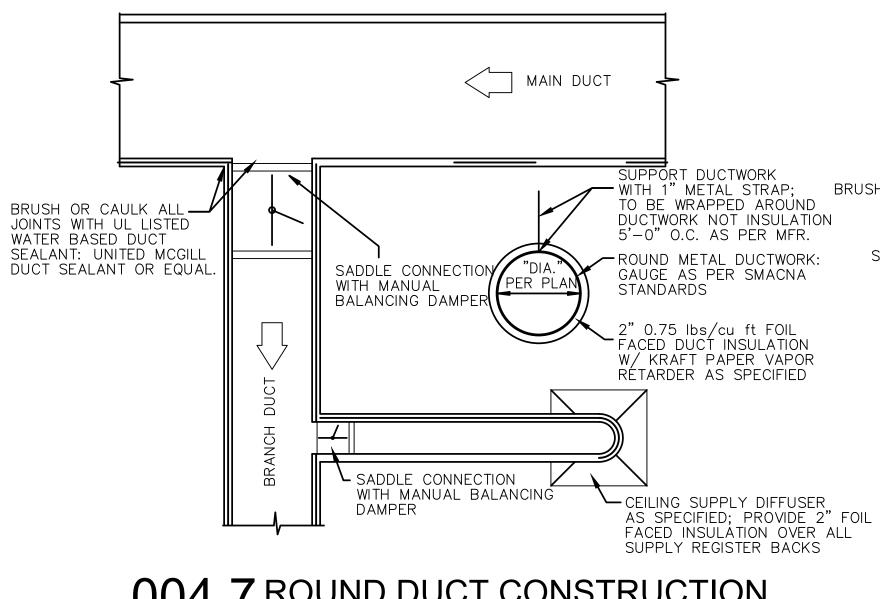
004.3 CONDENSATE PIPE DETAIL



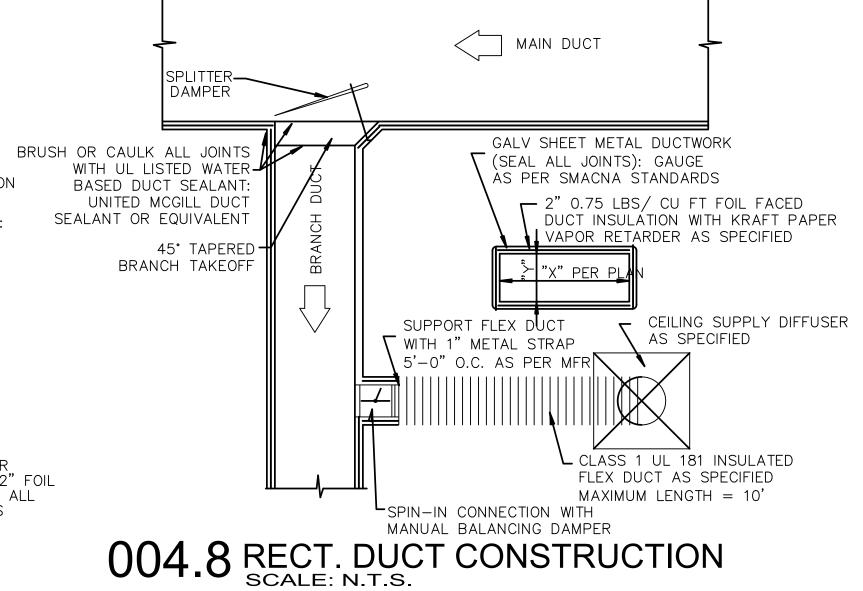
004.4 THERMOSTAT INSTALLATION DETAIL SCALE: N.T.S.



004.6 RETURN AIR PLENUM DETAIL SCALE: N.T.S.

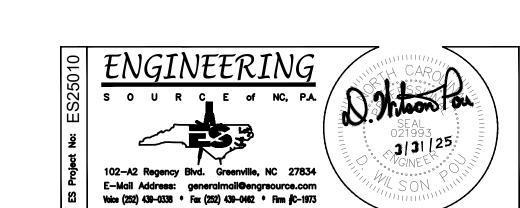


004.7 ROUND DUCT CONSTRUCTION SCALE: N.T.S.



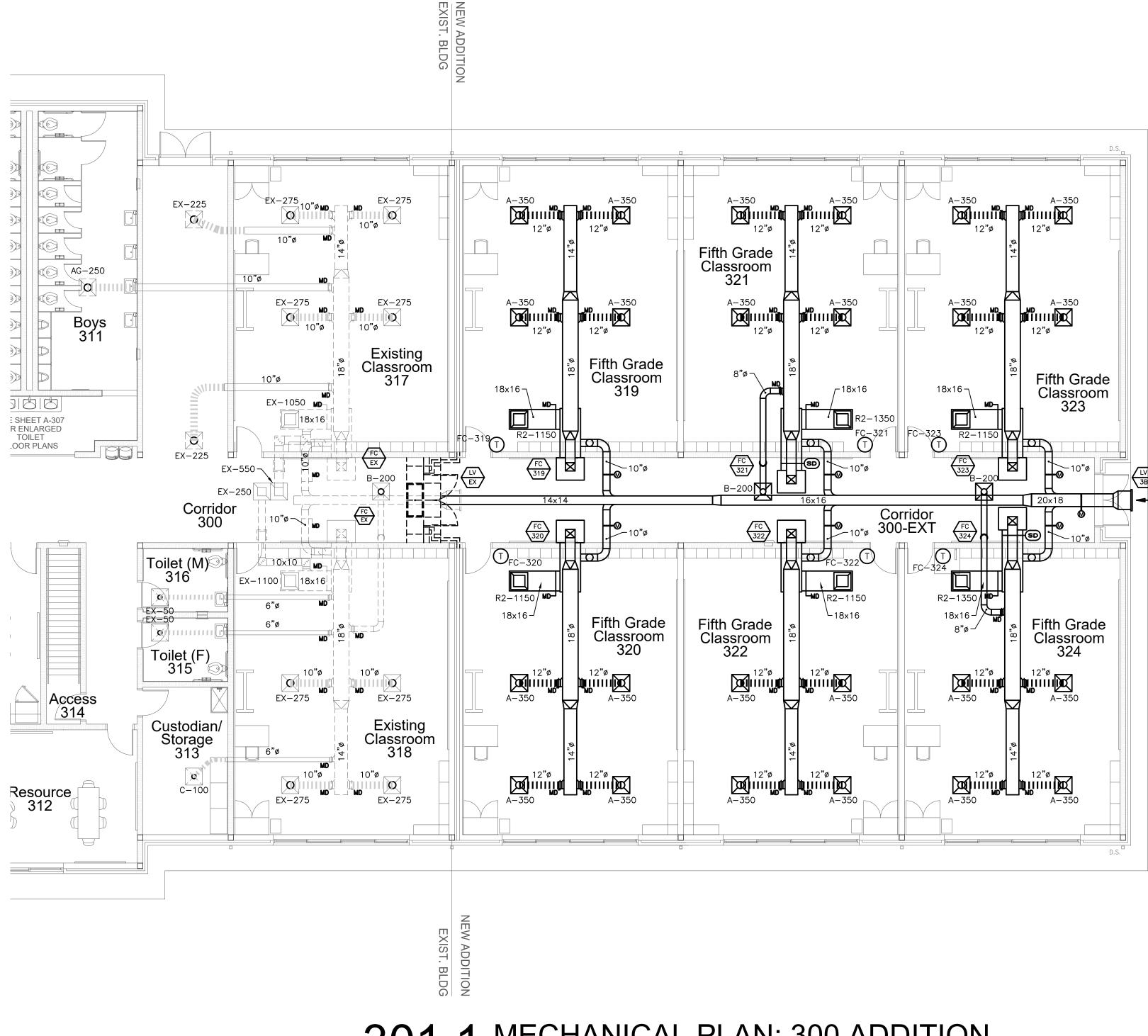
- CLIP ANGLES - STOP INSULATION HERE INSULATED DUCT WALL CONSTRUCTION; SEE ARCHITECTURAL DRAWINGS DIRECT COUPLED — DAMPER ACTUATOR AS SPECIFIED EXTRUDED ALUMINUM RECESSED STATIONARY — LOUVER w/ SPECIFIED FINISH SCREEN JAMB SEALS -EXTENDED SILL -PARALLEL BLADE CONTROL DAMPER NOTE: PROVIDE CONTROL DAMPER FOR COMMON VENTILATION DUCTS ONLY

004.10 OUTSIDE AIR LOUVER DETAIL SCALE: N.T.S.

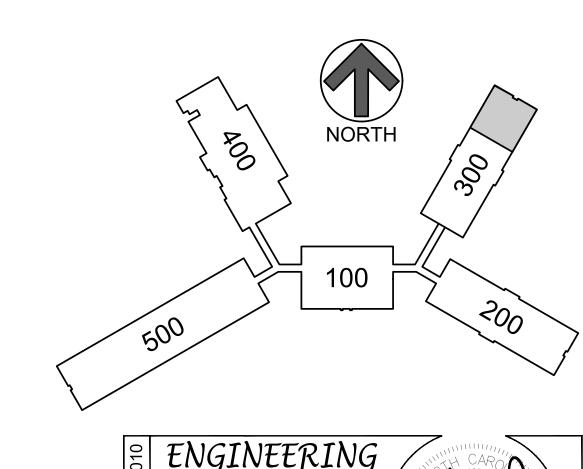


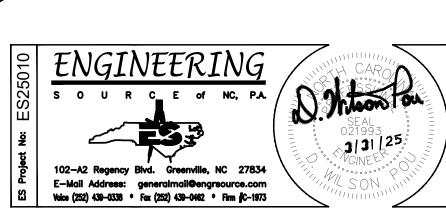
10 mg

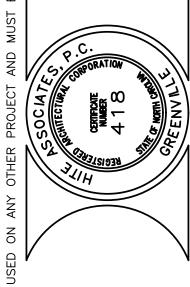
E—Mail Address: generalmail@engrsource.com Voice (252) 439-0338 \* Fax (252) 439-0462 \* Firm ∦C-1973



MECHANICAL PLAN: 300 ADDITION SCALE: 1/8" = 1'-0"







## **ELECTRICAL NOTES:**

ELECTRICAL CONTRACTOR.

1. DO NOT SCALE THESE DRAWINGS; REFER TO LARGEST SCALE ARCHITECTURAL PLANS.

2. THESE DRAWINGS ARE DIAGRAMMATIC ONLY & ARE NOT INTENDED TO SHOW MINOR DETAILS & EXACT LOCATIONS. DESIGN ADJUSTMENTS SHALL BE ANTICIPATED BY THE CONTRACTOR TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

3. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH 2008 NEC/NFPA 70. CONTRACTOR SHALL NOTIFY ENGINEER REGARDING ANY CODE DISCREPANCIES SHOWN ON PLAN. ANY PERMIT OR INSPECTION FEES ARE THE RESPONSIBILITY OF THE

4. CONTRACTOR SHALL INSTALL, GROUND AND BOND SYSTEM PER THE 2008 NEC.

5. CONTRACTOR SHALL NOT PUT MORE THAN SIX (6) DUPLEX RECEPTACLES ON ANY GIVEN 1P-20A CIRCUIT.

6. MINIMUM WIRE SIZE SHALL BE #12 AWG., MINIMUM CONDUIT SIZE SHALL BE 3/4".

7. CONTRACTOR SHALL COORD. TELEPHONE AND DATA OUTLETS REQUIRED WITH OWNER PRIOR TO GYP. BOARD BEING INSTALLED.

8. HALLWAY AND MAINTENANCE RECEPTACLES SHALL NOT BE CIRCUITED WITH OFFICE OR OTHER GENERAL PURPOSE RECEPTACLES.

9. ELECTRICAL CONTRACTOR SHALL PROVIDE HACR RATED CIRCUIT BREAKERS ON ALL HVAC EQUIPMENT.

10. CONDUCTORS SHALL BE TYPE THW,THWN OR THWN. BRANCH CIRCUIT CONDUCTOR SHALL NOT BE SMALLER THAN No. 12 AWG, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. HOME RUNS ORIGINATING MORE THAN 80' AT 120V FROM PANEL LOCATION SHALL BE No. 10 AWG MINIMUM SIZE. WIRES No. 10 AWG AND SMALLER SHALL BE SOLID; WIRES No. 8 AWG AND LARGER SHALL BE STRANDED. PROVISIONS OF SECTION 210-5 COLOR CODE, NEC, SHALL BE STRICTLY COMPLIED WITH AND BE CONSISTENT THROUGHOUT ENTIRE SYSTEM.

11. ALL CIRCUITS SHALL BE PROVIDED WITH AN INSULATED EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH 2008 NEC TABLE 250-122. HASHMARK FOR GROUNDING CONDUCTOR IS NOT INDICATED ON THESE DRAWINGS. RACEWAY SHALL NOT BE USED AS EQUIPMENT GROUND.

12. IN ADDITION TO MECHANICAL FASTENING TO CEILING TRACK, SUPPORT LIGHT FIXTURES AT EACH CORNER INDEPENDENTLY OF SUSPENDED CEILING WITH 12 GAUGE WIRE. CONNECT TO STRUCTURAL SYSTEM OF BUILDING.

13. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED. ALL EMPTY CONDUIT SHALL HAVE A PULL WIRE.

14. CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT). EMT SHALL BE COLD—ROLLED STEEL TUBING W/ A COATING ON THE OUTSIDE & PROTECTED ON THE INSIDE BY A ZINC, ENAMEL, OR EQUIVALENT CORROSION RESISTANT COATING AND CONFORMING TO THE REQUIREMENTS OF ANSI C 80.3—1996 OR LATER EDITION. ALL UNDERGROUND CONDUIT SHALL BE UL LISTED SCHD 80 PVC CONFORMING TO ARTICLE 347 OF THE 2008 NEC. WHERE SCHD 80 PVC IS INSTALLED UNDER FLOOR SLABS, THE ELBOWS REQUIRED TO TURN THE RACEWAY UP INTO CABINETS, EQUIPMENT, ETC., SHALL BE OF RIGID STEEL. E.C. MAY USE MC CABLE IN LIEU OF EMT CONDUIT FOR BRANCH CIRCUITS UPON CONSENT OF BUILDING OWNER.

15. ALL JUNCTION OR DEVICE BOXES SHALL HAVE A COVER.

16. ALL 1P-20A CIRCUITS SHALL BE 2-#12 & 1-#12G IN

17. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH ALL VOLUMES OF THE NCSBC, INSPECTORS HAVING JURISDICTION, AND ALL OTHER APPLICABLE CODES AND ORDINANCES.

18. EACH PIECE OF ELECTRICAL GEAR, EQUIPMENT, ETC.. SHALL BEAR A "UL" LABEL.

19. METAL ROOF DECKING SHALL NOT BE PENETRATED TO

THE UNINTERRUPTED SIDE OF THE LOCAL LIGHTING CIRCUIT.

SUPPORT ELECTRICAL ITEMS.

20. ALL EMERGENCY AND EXIT LIGHTS SHALL BE CONNECTED TO

21. NOTICE OF COMPLIANCE WITH NEC ARTICLE 517.13 (a) & (b)—GROUNDING IN PATIENT CARE AREAS: FURNISH AND INSTALL APPROVED METALLIC RACEWAY SYSTEMS WITH COPPER CURRENT CARRYING CONDUCTORS AND COPPER INSULATED GROUNDING CONDUCTOR FOR ALL WORK IN PATIENT CARE AREAS. WORK SHALL BE IN STRICT ACCORDANCE WITH NEC ARTICLE 517.13. NON—METALLIC RACEWAYS SHALL NOT BE USED. FURNISH AND INSTALL REDUNDANT GROUND PATHWAYS PER NEC 517.13(b).

22. INSTALL ENGRAVED PHENOLIC LABELS ON ALL ELECTRICAL GEAR, DISCONNECTS, ETC. FASTEN WITH SCREW FASTENERS.

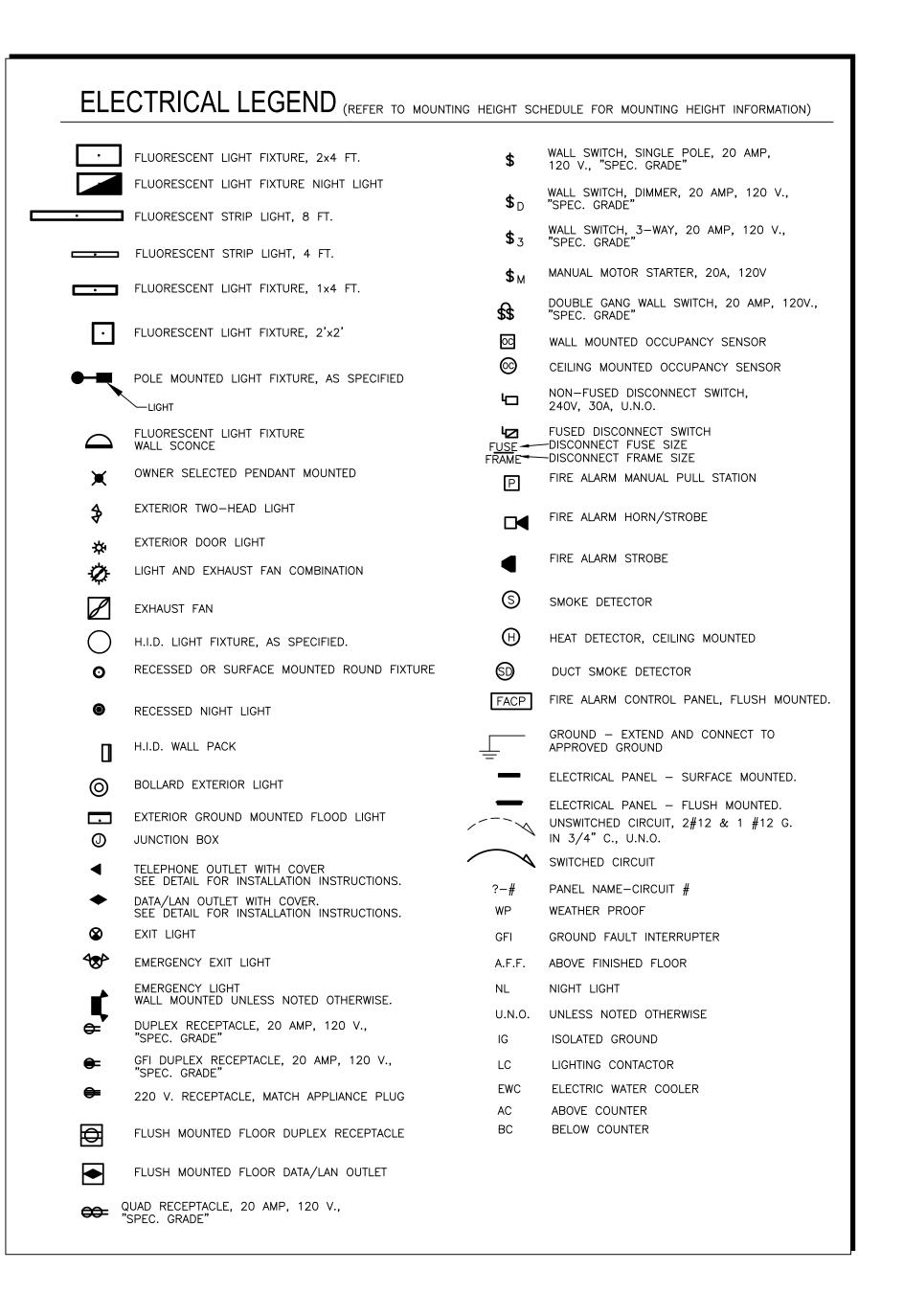
23. E.C. SHALL INSTALL HEAVY DUTY NEMA—1 DISCONNECTS AT ALL INTERIOR LOCATIONS INDICATED AND HEAVY DUTY NEMA—3R DISCONNECTS AT ALL EXTERIOR LOCATIONS AS INDICATED ON THESE DRAWINGS.

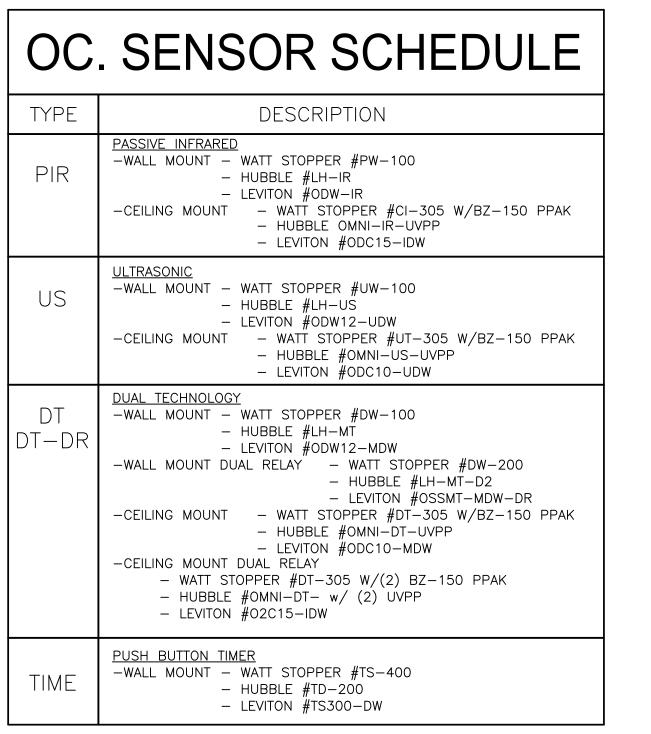
24. VERIFY WITH OWNER LOCATION/TYPE OF ALL FIXTURES, PANEL BOXES, OUTLET PLACEMENT, ETC. BY HOLDING AN ELECTRICAL WALKTHROUGH ON THE BUILDING SITE ONCE FRAMING IS COMPLETED.

25. E.C. SHALL INSTALL COMPLY WITH ANSI A117.1 FOR OUTLET AND CONTROL SWITCH MOUNTING HEIGHTS FOR ADA ACCESSIBILITY.

26. E.C. IS RESPONSIBLE FOR DEMOLITION OF EXISTING LIGHTS FIXTURES THAT ARE INDICATED TO BE REPLACED. E.C. SHALL FIELD VERIFY EXISTING SWITCH CIRCUITING AND REWORK SWITCH WIRING TO

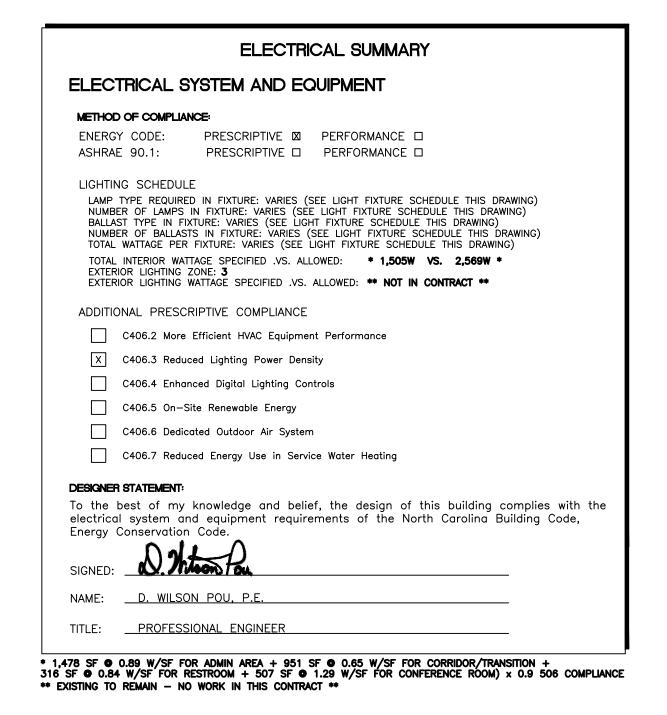
PROVIDE CONTROL OF LIGHTS AS INDICATED ON PLANS.

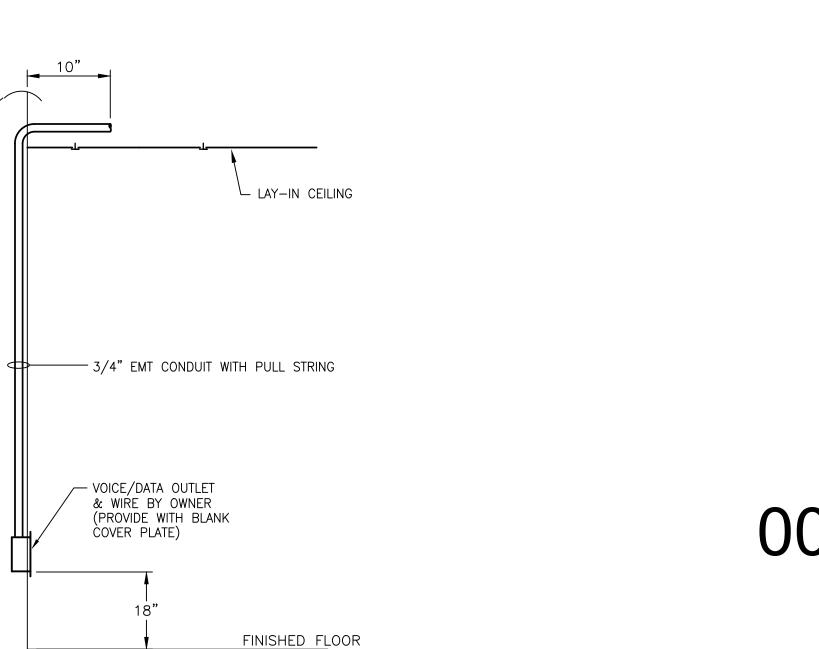




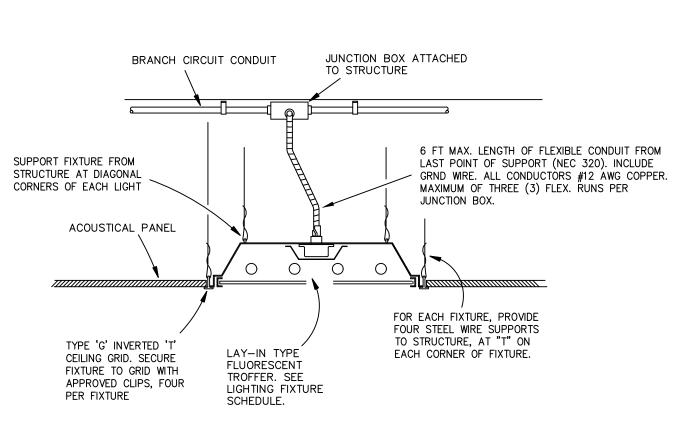
\* ALL OCCUPANCY SENSORS SPECIFICED USE 120/277V AC POWER. EQUALS ACCEPTED, MAKE AND MODEL USED TO SET STANDARD OF PERFORMANCE & QUALITY.

\* ALL OCCUPANCY SENSORS ARE INSTALLED AND CIRCUITED PER PLANS.

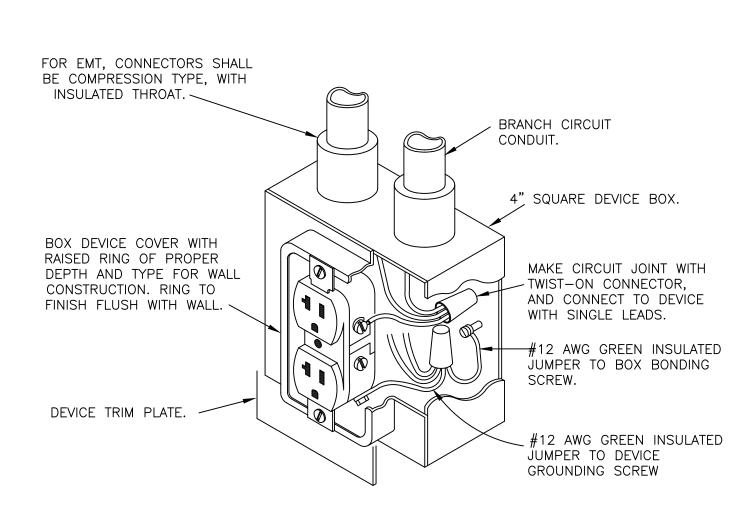




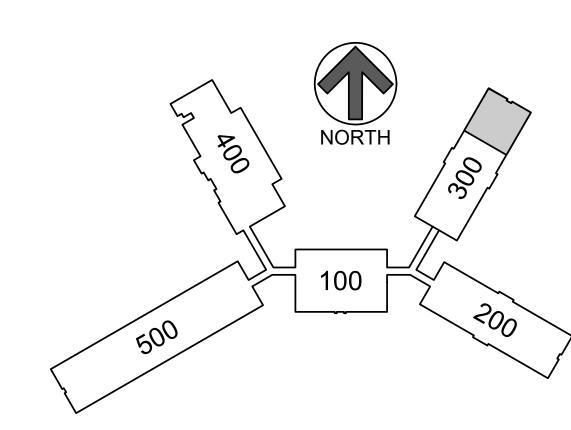




FLUORESCENT / LED TROFFER INSTALLATION SCALE: N.T.S.



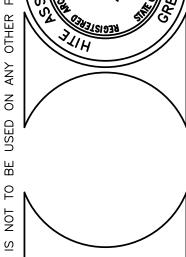
TYPICAL DUPLEX
001.3 RECEPTACLE INSTALLATION
SCALE: N.T.S.





TECTURAL DRAWINGS FOR EXACT DIMENSIONS.

HITE 3880CIATE ARCHITECTURE / PLANNING / TECHNOLO



Elementary Schools

Thanksgiving Johnst

**ာ** 

Project No. 22502

Date: March 2025

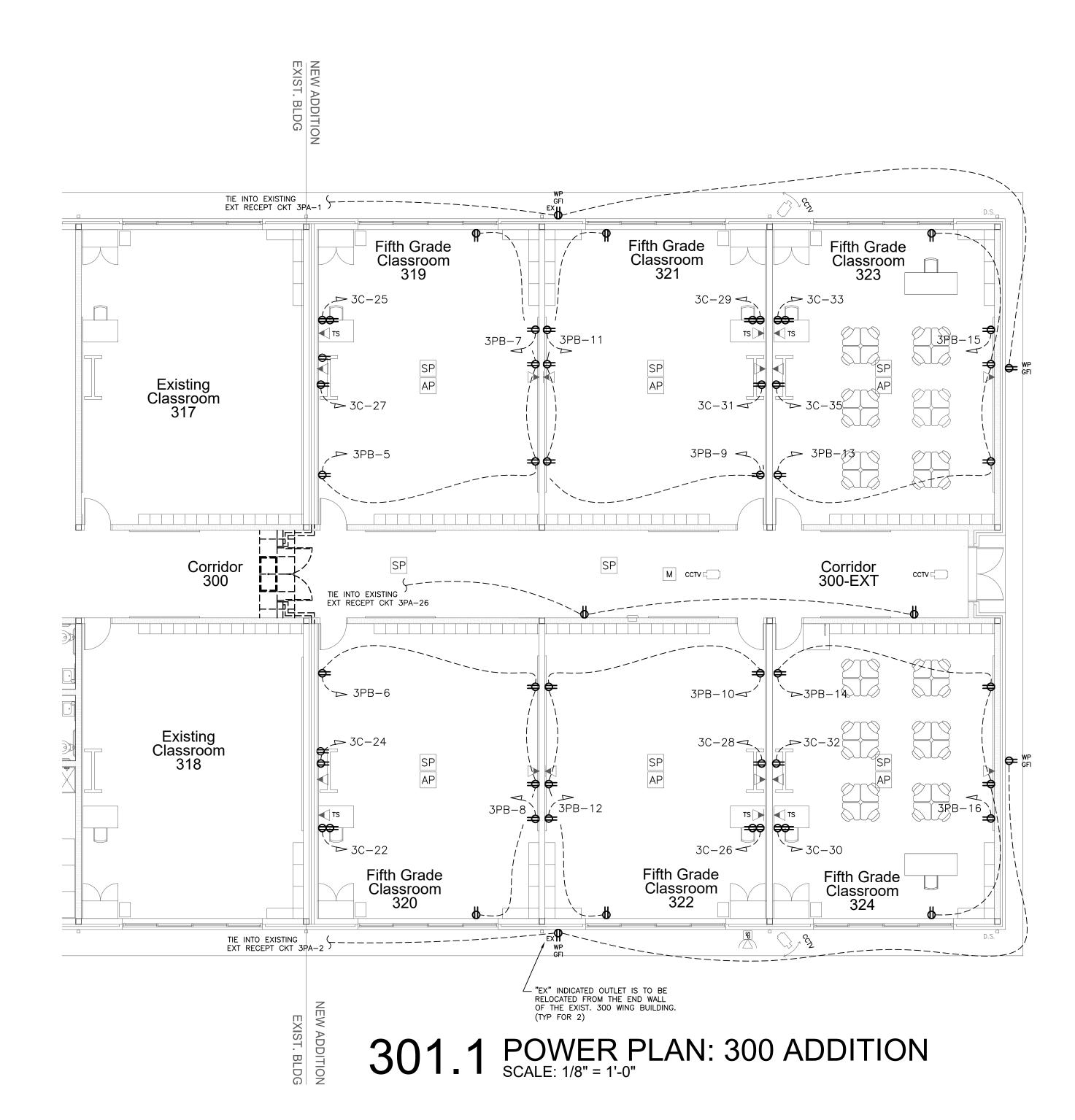
Drawing no.

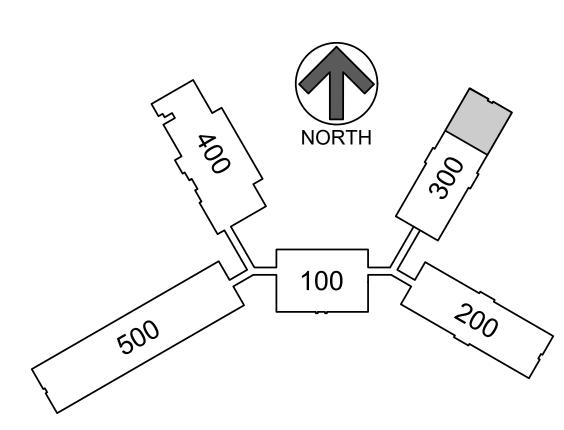
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3	20	1	12	3/4"	CHARGE STATION 317							1.4	Щ						1.4	CHARGE STATION 318	3/4"	12	1	20	4
5	20	1	12	3/4"	**RECEPTACLES 319		0.7								0.7					**RECEPTACLES 320	3/4"	12	1	20	6
7	20	1	12	3/4"	**CHARGE STATION 319							1.4	ЩЦ						1.4	**CHARGE STATION 320	3/4"	12	1	20	8
9	20	1	12	3/4"	**RECEPTACLES 321		0.7								0.7					**RECEPTACLES 322	3/4"	12	1	20	10
11	20	1	12	3/4"	**CHARGE STATION 321							1.4							1.4	**CHARGE STATION 322	3/4"	12	1	20	12
13	20	1	12	3/4"	**RECEPTACLES 323		0.7								0.7					**RECEPTACLES 324	3/4"	12	1	20	14
15	20	1	12	3/4"	**CHARGE STATION 323							1.4							1.4	**CHARGE STATION 324	3/4"	12	1	20	16
17	20	1			SPARE *			1.5							0.2					REC-CUSTODIAN 313	3/4"	12	1	20	18
19	20	1			SPARE *			1.5							0.7					REC-CORRIDOR	3/4"	12	1	20	20
21	20	1	12	3/4"	REC-PLATFORM		0.7												0.7	SPARE (ION MOD ALT)	3/4"	12	1	20	22
23	20	1	12	3/4"	REC-PLATFORM		0.9												1.3	IONIZATION MOD	3/4"	12	1	20	24
25	20	1	12	3/4"	SPARE															SPARE			1	20	26
27	20	1	12	3/4"	SPARE															SPARE			1	20	28
29	20	1	12	3/4"	TOILET LIGHT & FAN	0.1						0.1								SPARE			1	20	30
31	20	1	12	3/4"	HVAC CONTROLS															SPARE			1	20	32
33	20	1	12	3/4"	HVAC CONTROLS															SPARE			1	20	34
35	20	1	12	3/4"	SPARE															SPARE			1	20	36
37		1			SPACE															SPACE			1		38
39		1			SPACE															SPACE			1		40
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1	20		12		COMPUTER 301	LIG	0.4	IVITIX	70	11110	IXII	0.3		1 - 10	0.4	IVITIN	120	11110	IXII		COMPUTER 302	3/4"	12	1	20	2
3	20	<u>'</u>	12	3/4"	SMARTBOARD 301		0.4					0.5	▜▄▎		0.4						SMARTBOARD 302	3/4"	12	1	20	4
5	20	<u>'</u>	12	3/4"	COMPUTER 303		0.4					0.3	╢ <b>┯</b> ┪		0.4						COMPUTER 304	3/4"	12	1	20	6
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9	20	1	12	3/4"	COMPUTER 305		0.4					0.3	╀┪		0.4						COMPUTER 306	3/4"	12		20	10
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11	20	1	12	3/4"	SMARTBOARD 305		0.4					_	╫╢┩		0.4							_	12	1	20	12
13	20	1	12	3/4"	COMPUTER 307		0.4					0.3	▜▋		0.4						COMPUTER 308	3/4"	12	1	20	14
15	20	1	12	3/4"	SMARTBOARD 307		0.4					0.5	╢ <b>┯</b> ╻		0.4						SMARTBOARD 308	3/4"	12	1	20	16
17	20	1	12	3/4"	COMPUTER 312		0.4					0.3	╫╿┩		0.4			-			COMPUTER 318	3/4"	12	1	20	18
19	20	1	12	3/4"	SMARTBOARD 312							0.5	╀┪		<b>.</b> .			-			SMARTBOARD 318	3/4"	12	1	20	20
21	20	1	12	3/4"	COMPUTER 317		0.4					0.3	╢ <b>┯</b> ╻		0.4					0.3	**COMPUTER 320	3/4"	12	1	20	22
23	20	1	12	3/4"	SMARTBOARD 317							0.5	╨╿┩							0.5	**SMARTBOARD 320	3/4"	12	1	20	24
25	20	1	12	3/4"	**COMPUTER 319		0.4					0.3	<b>╒</b>		0.4					0.3	**COMPUTER 322	3/4"	12	1	20	26
27	20	1	12	3/4"	**SMARTBOARD 319							0.5	╢╇╜							0.5	**SMARTBOARD 322	3/4"	12	1	20	28
29	20	1	12	3/4"	**COMPUTER 321		0.4					0.3	╨╿┩		0.4					0.3	**COMPUTER 324	3/4"	12	1	20	30
31	20	1	12	3/4"	**SMARTBOARD 321							0.5	<b>₽</b> ↓∣							0.5	**SMARTBOARD 324	3/4"	12	1	20	32
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39																					SPARE	3/4"	12	1	20	40
41																					SPARE	3/4"	12	1	20	42
	ING (K	,			0.0	0.0	3.2	0.0	0.0	0.0	0.0	7.2		0.0	3.6	0.0	0.0	0.0	0.0		CONNECTED LOAD (KVA):					20.4
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	IEN (KV	•			0.0								KVA		MPS						52.111 (145 251 to (1401 0).					3.7
	ELLANE	,	KVA):		13.6								1	1		1										
NOTE	S: ** IN	DICAT	ES REL	JSED B	REAKER																					

	BPB D	)EM	IAN		) C	A	L	CS
LIGHTING		0.10	KVA	Х	125	%	=	0.1 KVA
RECEPTAC		10.00				, ,	= =	8.3 KVA 0.0 KVA
MOTORS	LARGEST	1.50 1.50					= =	1.5 KVA 1.9 KVA
A/C		0.00	KVA	Χ	100	%	=	0.0 KVA
HEATING		0.00	KVA	Χ	100	%	=	0.0 KVA
FUTURE			KVA	Χ	100	%	=	0.0 KVA
KITCHEN		0.00	KVA	Χ	65	%	=	0.0 KVA
MISCELLAN	NEOUS	13.62	KVA	Χ	100	%	=	13.6 KVA
TOTAL	=	70.5	amps	\$			=	25.4 KVA

	3C D	EM.	<u>AN</u>	D	C	Αl	_CS	)	
LIGHTING		0.00	KVA	Χ	125	%	=	0.0	KVA
RECEPTAC	TOTAL	6.84	KVA						
	1ST	10.00	KVA	Х	100	%	=	6.8	KVA
	REMAIN	0.00	KVA	Χ	50	%	=	0.0	KVA
MOTORS		0.00	KVA	Х	100	%	=	0.0	KVA
	LARGEST	0.00	KVA	Χ	125	%	=	0.0	KVA
A/C		0.00	KVA	Χ	100	%	=	0.0	KVA
HEATING		0.00	KVA	Χ	100	%	=	0.0	KVA
FUTURE			KVA	Χ	100	%	=	0.0	KVA
KITCHEN		0.00	KVA	Χ	65	%	=	0.0	KVA
MISCELLAI	NEOUS	13.60	KVA	Χ	100	%	=	13.6	KVA
TOTAL	=	56.7	amp				=	20.4	KVA



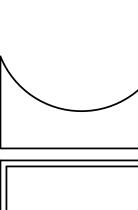




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HITE 3880018 ARCHITECTURE / PLANNING / TEC





Addition to Addition to Inksgiving Elementary Schools

Project No. 22502

Date:

March 2025

Drawing no.

March 2025

Drawing no.

Project No. 22502

Date: March 2025

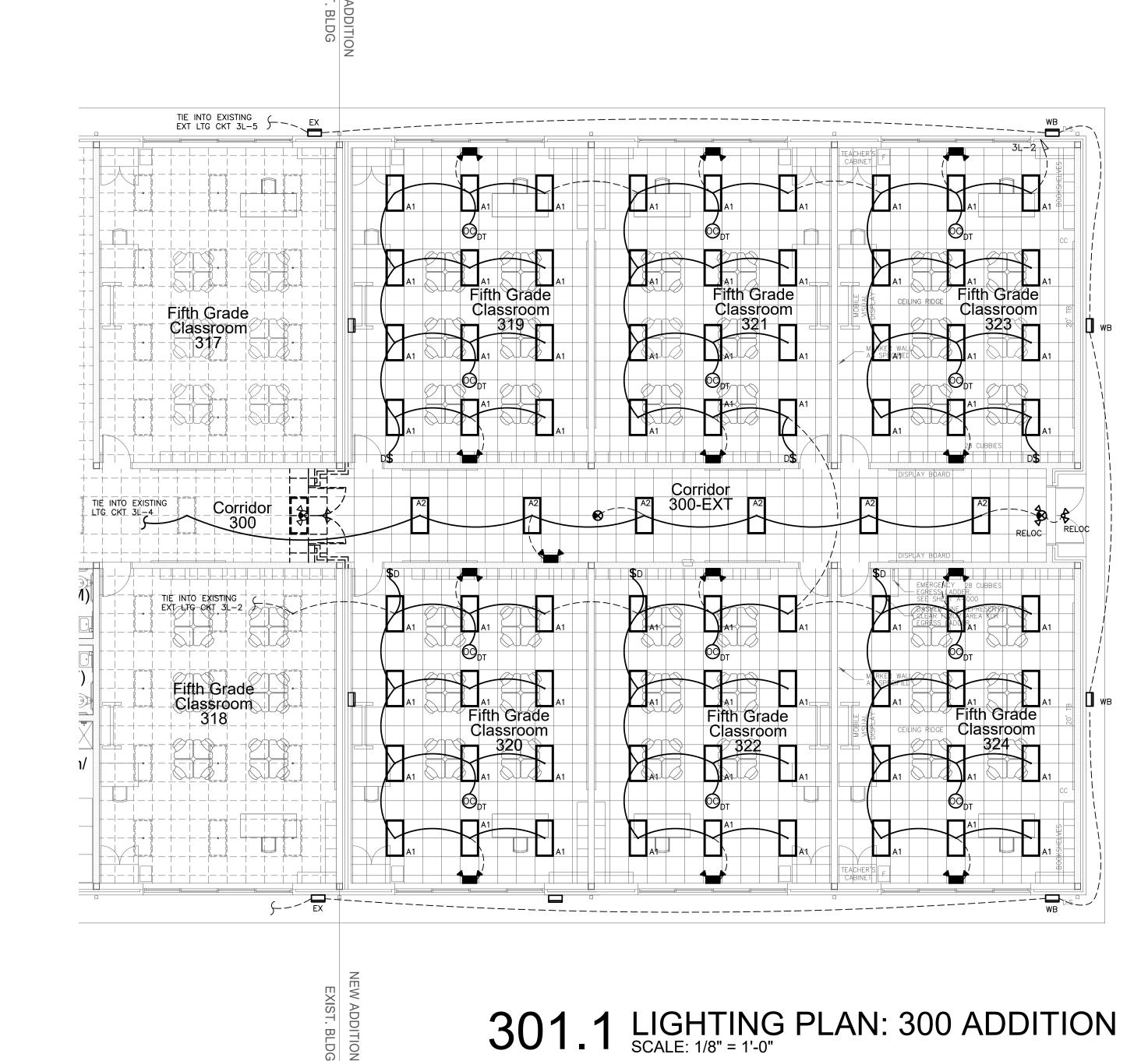
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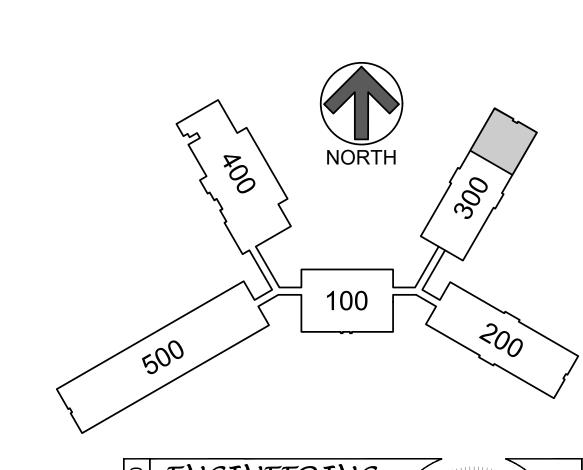
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SEAL

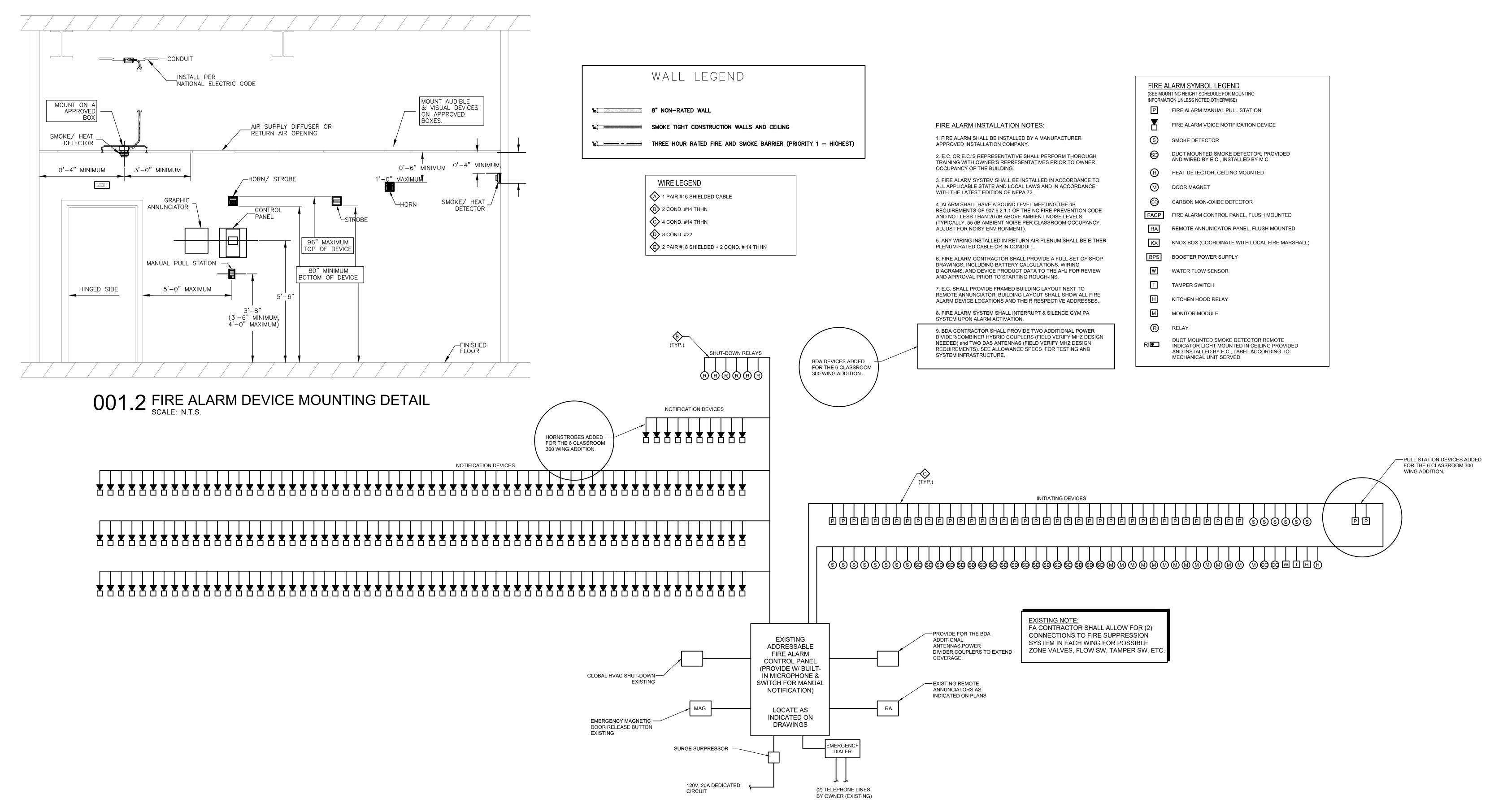
Project No. 22502

Date:

March 2025

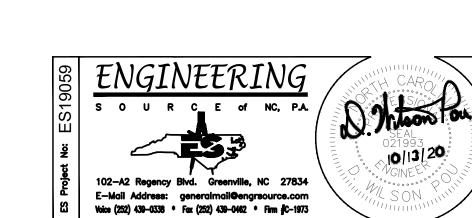
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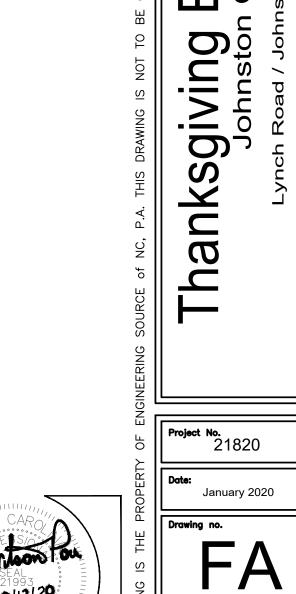
School



001.1 FIRE ALARM RISER SCALE: NTS

RE ALARM		SYSTEM ACTION															1					
STEM CTION MATRIX	ACTUATE COMMO ALARM SIGNAL INDICATOR	N ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE VOICE NOTIFICATION	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTUATE APPROPRIATE LOCATION INDICATOR	ACTUATE ALL AUDIBLE EVACUATION SIGNALS	ACTUATE ALL VISIBLE EVACUATION SIGNALS	DISPLAY / PRINT CHANGE OF STATUS	TRANSMIT ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	FAN SHUT DOWN (UNIVERSAL)	GYM PA SYSTEM SHUT DOWN	DAMPER SHUT DOWN	RELEASE MAGNETIC DOORS	FIRE SHUTTERS	ACTIVATE SMOKE EVAC FAN IN RESPECTIVE CONNECTOR	SHUNT ALL GAS & POWER UNDER HOOD	COMMENTS/REMARK
MANUAL ALARM STATION	Х	X	Х					Х	Х	X	X	X			Х	Х	Х	X	Х	X		
SMOKE SENSOR / DETECTOR	X	X	X					X	X	X	X	X			X	X	X	X	X	X		
DUCT SENSOR / DETECTOR				Х	X			X	X	X	X	X										
WATERFLOW SWITCH	Х	X	Х					Х	X	X	X	X			X	X	X	X	X	X		
TAMPER SWITCH				X	X			X			X		X									
EMERGENCY LOCKDOWN BUTTON																		X				
POST INDICATOR VALVE SWITCH				X	X			X			X		Х									
FIRE ALARM AC POWER FAILURE						X	X				X			X								
FIRE ALARM SYSTEM LOW BATTERY						X	X				X			X								
OPEN CIRCUIT						X	X				X			X								
GROUND FAULT						X	X				X			X								
NOTIFICATION APPLIANCE CIRCUIT WIRE-TO-WIRE SHORT						X	X				X											
HOOD SUPPRESSION SYSTEM				X	X			Х			X		X								X	
SMOKE DETECTOR — IN CONNECTORS ONLY						X	X	X			X		X	X				X		X		ONLY RELEASE DO SPECIFC CONNECTO
CARBON MONOXIDE DETECTOR — IN BOILER ROOM & KITCHEN ONLY				X	X			X			X		X	X							X	SHUT OFF ALL GAS POWER TO ALL GA APPLIANCES IN AR ACTIVATION





School

Elementary

County Schools

Inston County / North Carol

HEREUPON IS NOT TO BE USED ON ANY OTHER

Addition to Ig Elementary School ston County Schools

Thanksgiving E

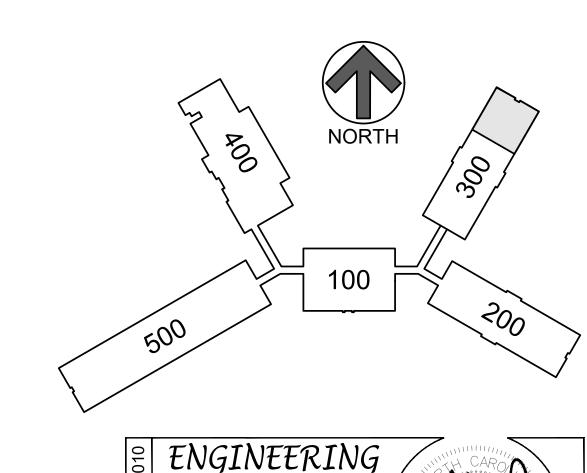
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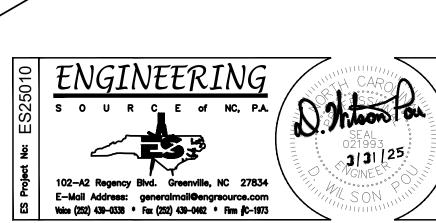
E-Mail Address: generalmail@engrsource.com Voice (252) 439-0338 \* Fax (252) 439-0462 \* Firm ∦C-1973 Project No. 22502

Date:

March 2025

Drawing no.

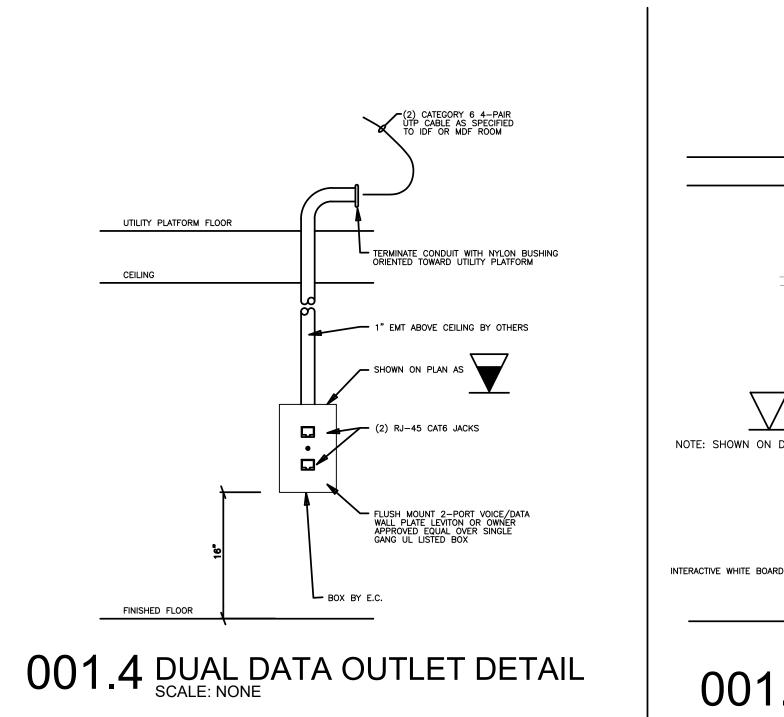


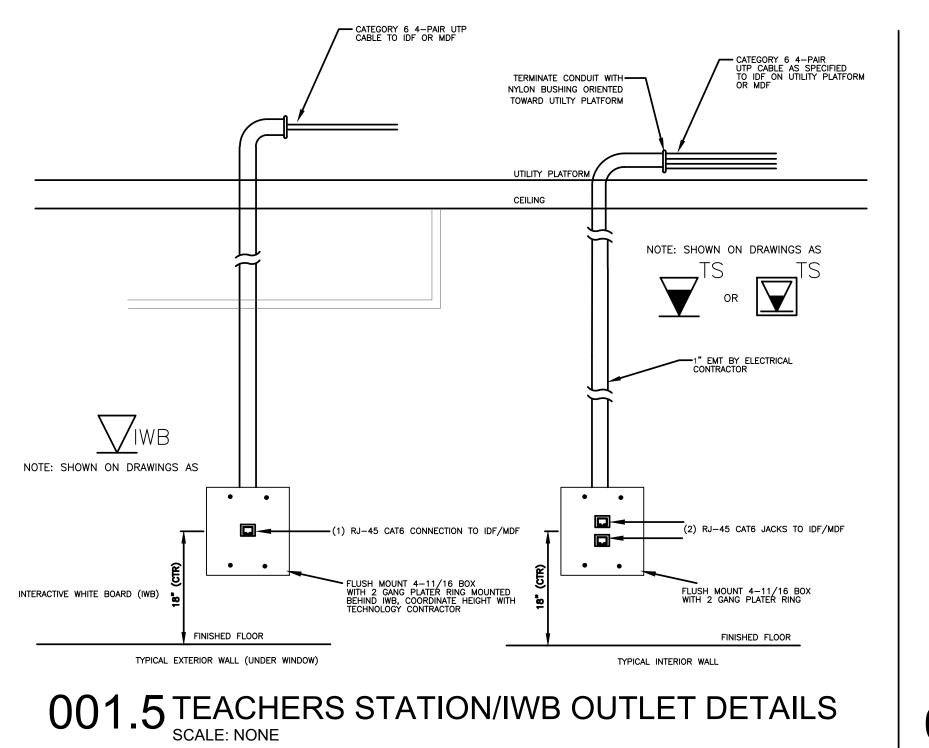


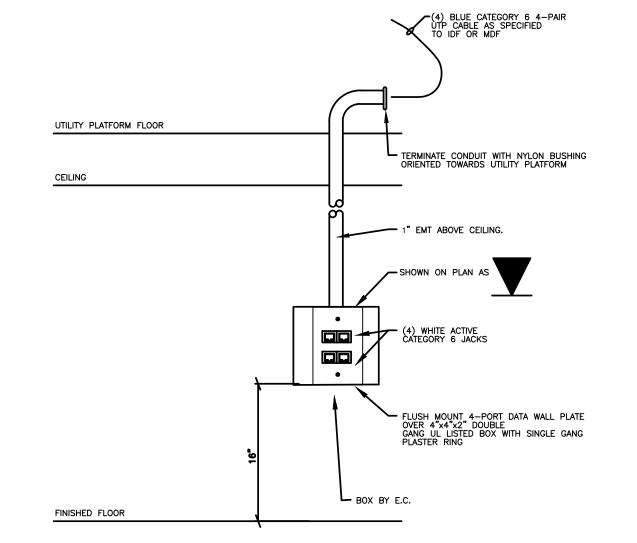
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22502

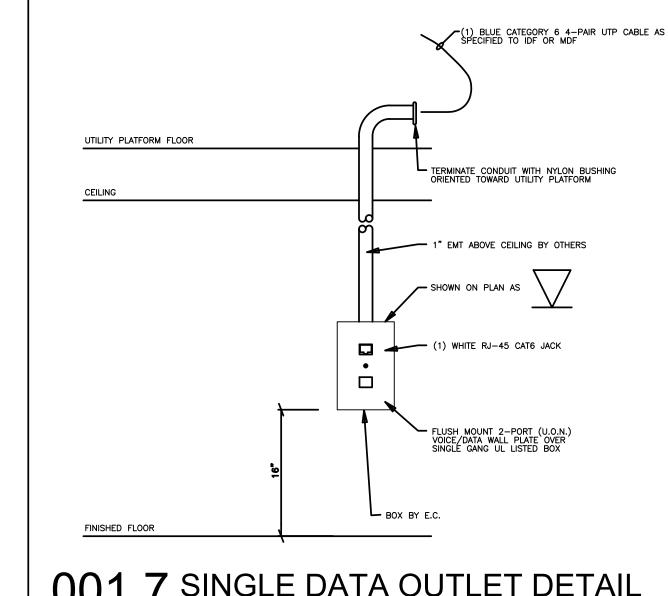
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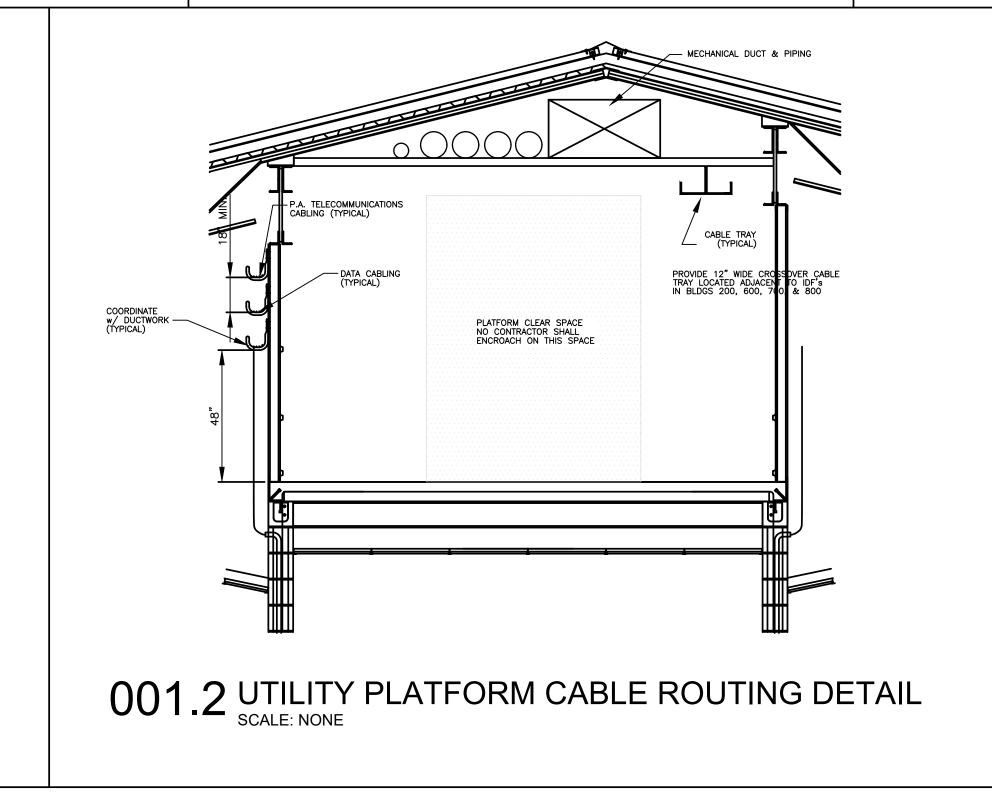


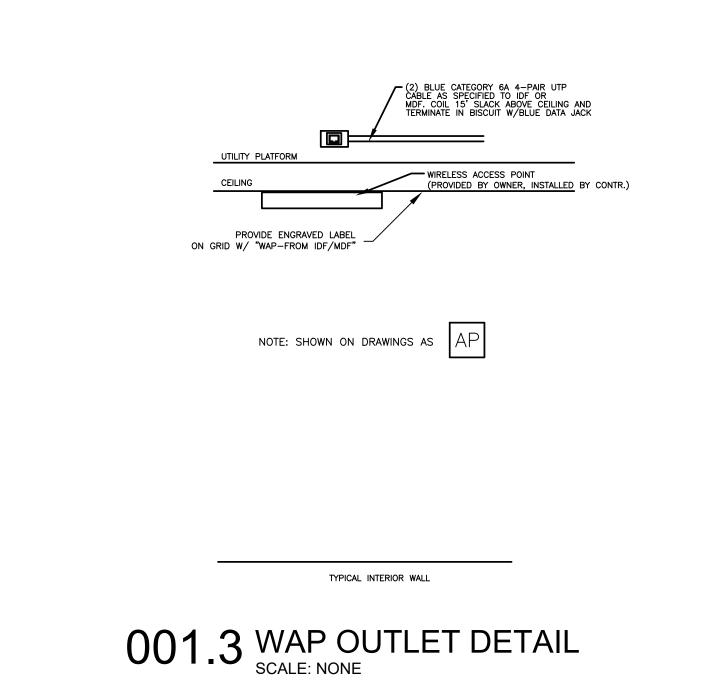


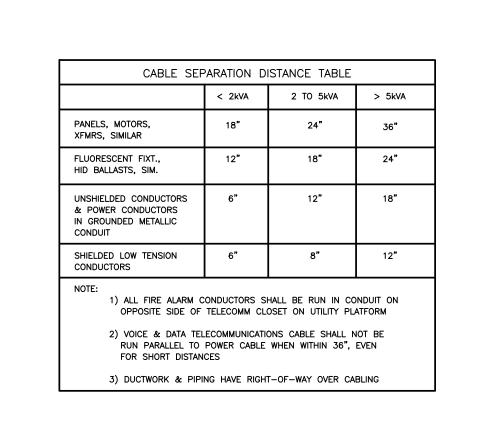


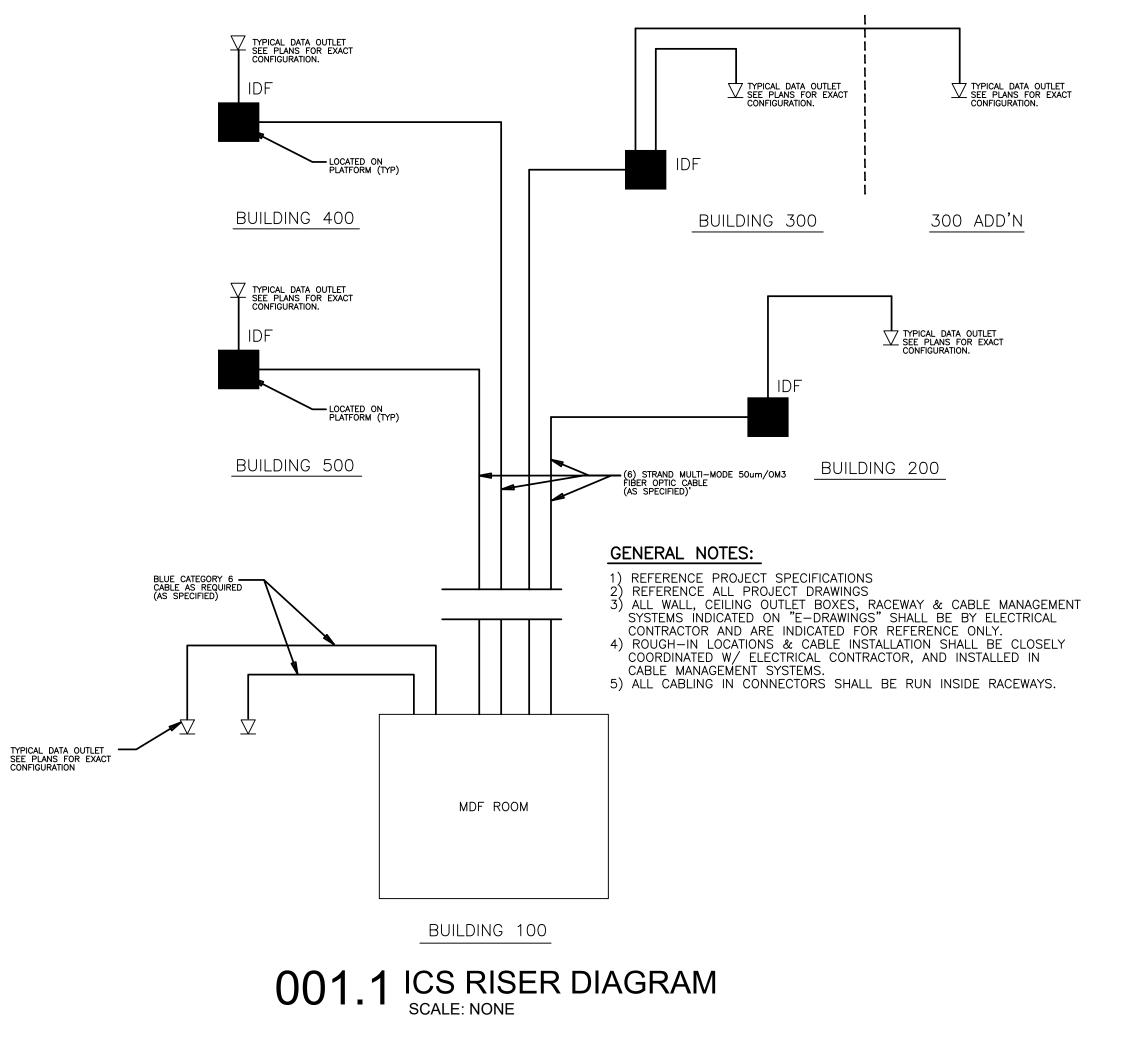
001.6 4 PORT DATA OUTLET DETAIL

001.7 SINGLE DATA OUTLET DETAIL

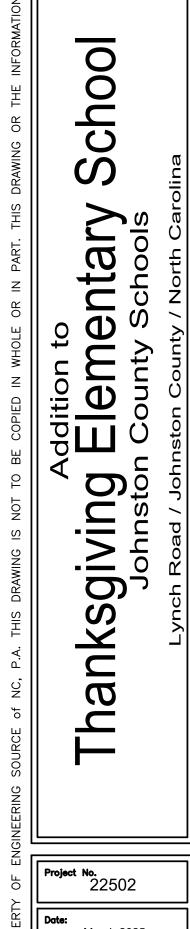


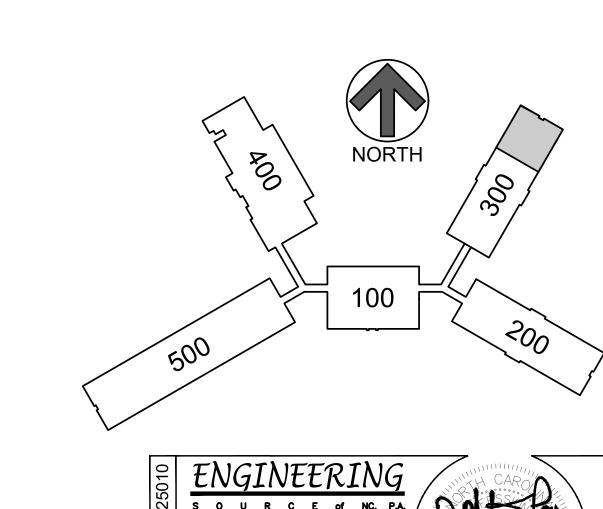


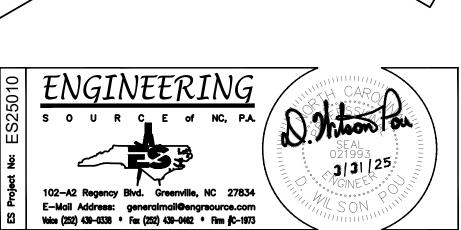


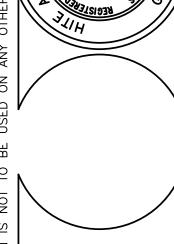


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School anksgiving Johnston