

ORANGE MIDDLE SCHOOL INFORMATIONAL SIGN

HILLSBOROUGH, NORTH CAROLINA

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DESIGN TEAM

ARCHITECTURAL DTW ARCHITECTS & PLANNERS, LTD.
ELECTRICAL EDMONDSON ENGINEERS
STRUCTURAL SARMIRAN

CONSTRUCTION DOCUMENTS
APRIL 10, 2026

DRAWING INDEX

SN-1 - COVER, DRAWING INDEX
T001 - DATA SHEET
SN-2 - SITE PLAN SHEET
SN-3 - SIGN ELEVATIONS
E1.1 - ELECTRICAL SITE PLAN

LOCATION MAP



SITE INFORMATION



STAMPING AREA



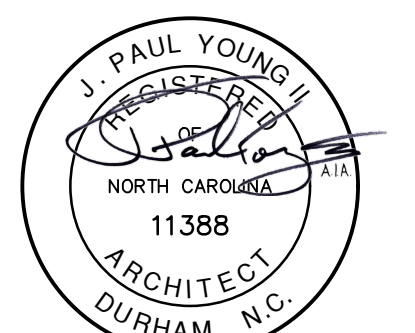
INSPECTIONS APPROVAL

SITE SIGNAGE

Renovations to:
ORANGE MIDDLE SCHOOL INFORMATIONAL SIGNAGE

308 ORANGE HIGH SCHOOL ROAD
HILLSBOROUGH, NC 27278

PROJECT NUMBER:
25032



DTW Architects & Planners, Ltd.
3333 Durham-Chapel Hill Blvd
Suite D-100
Durham, NC 27707
919.317.4020

CONSTRUCTION DOCUMENTS

Revisions _____
Drawn A.J.J.
Checked J.P.Y.
Date APRIL 10, 2026
Sheet

SN-1
Of

**APPENDIX B
2018 BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT ONE AND TWO-FAMILY DWELLINGS AND TOWNHOUSES)**

Name of Project: RENOVATIONS TO ORANGE MIDDLE SCHOOL INFORMATIONAL SIGNAGE
 Address: 308 ORANGE HIGH SCHOOL ROAD HILLSBOROUGH, NC Zip Code 27278
 Owner or Auth. Agent: HENRY MCKEE Phone # (336) 212-2401 Email HENRY.MCKEE@ORANGE.K12.NC.US
 Owned By: City/County Private State
 Code Enforcement Jurisdiction: City HILLSBOROUGH County State

CONTACT: J. PAUL YOUNG, AIA

DESIGNER FIRM	NAME	LICENSE #	TELEPHONE #	EMAIL
Architectural	DTW ARCHITECTS	PAUL YOUNG	11388 (919) 317-4020	PYOUNG@DTWARCH.COM
Civil				
Electrical	EDMOMDSON ENGINEERS	DENNIS HAYES	28869 (919) 544-1936	DENNIS@EDMPCA.COM
Fire Alarm				
Plumbing				
Mechanical				
Spr. Stand.				
Structural	SARMIRAN, PLLC	JAMES CZAR	029015 (919) 241-8745	JCZAR@SARMIRAN.COM
Ret. Walls >5' High				
Other				

(*Other should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 BUILDING CODE: New Building Shell/Core 1st Time Interior Completions
 Addition Phased Construction-Shell Core

2018 NC EXISTING BUILDING CODE: (check all that apply)
 Prescriptive Alteration - Lvl 1 Historic Property
 Repair Alteration - Lvl 2 Change of Use
 Chapter 14 Alteration - Lvl 3

CONSTRUCTED: (date) _____ ? **CURRENT USE(S):** (Ch. 3): SCHOOL
RENOVATED: (date) _____ ? **PROPOSED USE(S):** (Ch. 3): SCHOOL
OCCUPANCY CATEGORY (Table 1604.5): Current: _____ Proposed: _____

BASIC BUILDING DATA
 Construction Type: (check all that apply)
 I-A II-A III-A IV V-A
 I-B II-B III-B V-B
 Sprinklers: No Partial NFPA 13 NFPA 13R NFPA 13D
 Standpipes: No Class I II III Wet Dry
 Primary Fire District: No Yes **Flood Hazard Area:** No Yes
 Special Inspections Required: No Yes

GROSS BUILDING AREA TABLE

FLOOR	EXISTING (SQ FT)	RENOVATED (SQ FT)	NEW (SQ FT)	SUB-TOTAL
6th Floor				
5th Floor				
4th Floor				
3rd Floor				
2nd Floor				
Mezzanine				
1st Floor		OUTSIDE SIGN		
Basement				
TOTAL				

ALLOWABLE AREA

Primary Occupancy Classification (s):
 Assembly A-1 A-2 A-3 A-4 A-5
 Business
 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
 I-2 Condition 1 2
 I-3 Condition 1 2 H-3 Combust H-4 Health H-5 HPM
 Mercantile
 Residential R-1 R-2 R-3 R-4
 Storage S-1 Moderate S-2 Low High-piled Parking Garage
 Open Enclosed Repair Garage
 Utility and Misc.

Accessory Occupancies Classification(s): A-2
 Incidental Uses (Table 509): _____
 This separation is not exempt as a Non-separated Use (see exceptions).
 Special Uses (Chapter 4 - List Code Sections): _____
 Special Provisions (Chapter 5 - List Code Sections): _____
 Mix Occupancy: No Yes Separation: _____ Hrs. Exception: _____
 Non-separated Use (508.3)
 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 A _____ + Actual Area of Occupancy B _____ <= _____
 Allowable Area of Occupancy A _____ + Allowable Area of Occupancy B _____ + ... = _____ <= 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 508.2.4 AREA	(C) AREA FOR INCREASE 1-5	(D) ALLOWABLE AREA PER STORY OR UNLIMITED 1-5

- Frontage area increases from Section 506.2 are computed thus:
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
 b. Total Building Perimeter = _____ (P)
 c. Ratio (F/P) = _____ (F/P)
 d. W = Minimum width of public way = _____ (W)
- Unlimited area applicable under conditions of Sections 507.
- Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
- The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.
- Frontage increase is based on the unspinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)			
Building Height in Stories (Table 504.4)	N/A NO CHANGE		

1. Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING		DETAIL AND SHEET#	DESIGN FOR RATED ASSEMBLY	SHEET# FOR RATED PENETRATION	SHEET# FOR RATED JOINTS
			PROVIDED (W/ REDUCTIONS)	REDUCTIONS				
Structural Frame, including Columns, Girders, Trusses								
Bearing walls								
Exterior								
North								
East								
West								
South								
Interior								
Nonbearing Walls and Partitions								
Exterior								
North								
East								
West								
South								
Interior walls and partitions								
Floor construction including supporting beams and joists								
Floor Ceiling Assembly								
Columns Supporting Floors								
Roof construction including supporting beams and joists								
Roof Ceiling Assembly								
Columns Supporting Roof								
Shafts Enclosures - Exit								
Shafts Enclosures - Other								
Corridor Separation								
Occupancy/Fire Barrier Separation								
Party/Fire Wall Separation								
Smoke Barrier Separation								
Smoke Partition								
Tenant/Dwelling Unit/Sleeping Unit Separation								
Incidental Use Separation								

*Indicate section number permitting reduction.

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)	
			N/A NO CHANGE	

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Yes No
 Exit Signs: Yes No
 Fire Alarm: Yes No
 Smoke Detection Systems: Yes No
 Carbon Monoxide Detection: Yes No

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet # N/A NO CHANGE

- Fire and/or smoke rated wall locations (Chapter 7)
- Assumed and real property line locations (if not on the site plan).
- Exterior wall opening area with respect to distance to assumed property lines (705.8)
- Occupancy Use for each area as it relates to occupancy load calculations (Table 1004.1.2)
- Occupant loads for each area
- Exit access travel distances (1017)
- Common path of travel distances (Table 1006.2.1 & 1006.3.2(1))
- Dead end lengths (1020.4)
- Clear exit widths for each exit door
- Maximum calculated occupant load capacity each exit door (accommodate based on egress width (1005.3))
- Actual occupant load for each exit door
- A separate schematic plan indicating where fire door/ceiling and/or roof structure is provided for purposes of occupancy separation (1010)
- Location of doors with panic hardware (1010)
- 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)
- Location of doors equipped with hold-open devices
- Location of emergency escape windows (1030)
- 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)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	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 # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 9' ACCESSIBLE	132' ACCESS AISLE	# ACCESSIBLE	
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATER CLOSETS			URINALS			LAVATORIES			SHOWERS/TUBS			DRINKING FOUNTAINS	
	Male	Female	Unisex	Male	Female	Unisex	Male	Female	Unisex	REGULAR	ACCESSIBLE	REGULAR	ACCESSIBLE	
SPACE														
EXISTING														
NEW														
REQUIRED														

N/A NO CHANGE

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)
 NONE

ENERGY SUMMARY

ENERGY REQUIREMENTS:
 The following data shall be considered minimum and any special attributes required to meet the energy code shall 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 versus the annual energy cost for the proposed design.

Existing building envelope complies with code: (If checked, the remainder of this section is not applicable.)
 Exempt Building: Provide code or statutory reference: _____
 Climate Zone: 3A 4A 5A
 Method of Compliance:
 Energy Code: Performance Prescriptive
 ASHRAE 90.1: Performance Prescriptive
 Other: Performance (specify source) _____

THERMAL ENVELOPE: (Prescriptive method only)

Roof/Ceiling Assembly (each assembly)
 Description of assembly _____
 U-Value of total assembly _____
 R-Value of insulation _____
 Skylights in each assembly _____
 U-Value of skylight _____
 Total square footage of skylights in each assembly _____

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 assembly _____
 Solar heat gain coefficient _____
 Projection factor _____
 Door R-Values _____

Walls below grade (each assembly)
 Description of assembly _____
 U-Value of total assembly _____
 R-Value of insulation _____

Floors over unconditioned space (each assembly)
 Description of assembly _____
 U-Value of total assembly _____
 R-Value of insulation _____

Floors slab on grade
 Description of assembly _____
 U-Value of total assembly _____
 R-Value of insulation _____
 Horizontal/vertical requirement _____
 Slab heated _____

STRUCTURAL DESIGN

DESIGN LOADS:
 Importance Factors: Wind (I_w) _____
 Snow (I_s) _____
 Seismic (I_e) _____
 Live Loads: Roof _____ psf
 Mezzanine _____ psf
 Floor _____ psf
 Ground Snow Load: Basic Wind Speed _____ mph (ASCE-7)
 Exposure Category _____

SEISMIC DESIGN CATEGORY:
 Provide the following Seismic Design Parameters:
 Occupancy Category (Table 1604.5) I II III IV
 Spectral Response Acceleration S_s _____ %g S₁ _____ %g
 Site Classification (ASCE 7) A B C D E F
 Data Source: Field Test Presumptive Historical Data
 Basic structural system (check one)
 Bearing Wall Dual w/Special Moment Frame
 Building Frame Dual w/Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum
 Analysis Procedure: Simplified Equivalent Lateral Force Dynamic
 Architectural, Mechanical, Components anchored? Yes No
 Seismic base shear: V_x = _____ V_y = _____

LATERAL DESIGN CONTROL: Earthquake Wind

SOIL BEARING CAPACITIES:
 Field Test (provide copy of test report) _____ psf
 Presumptive Bearing capacity _____ psf
 Pile size, type, and capacity _____

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
 Winter dry bulb _____
 Summer dry bulb _____

Interior design conditions
 Winter dry bulb _____
 Summer dry bulb _____
 Relative humidity _____

Building heating load _____
Building cooling load _____

Mechanical Spacing Conditioning System
 Unitary _____
 Description of unit _____
 Heating efficiency _____
 Cooling efficiency _____
 Size category of unit _____
 Boiler _____
 Size category, if oversized, state reason. _____
 Chiller _____
 Size category, if oversized, state reason. _____

List equipment efficiencies _____

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

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

Lighting schedule (each fixture type)
 Lamp type required in fixture _____
 Number of lamps in fixture _____
 Ballast type used in the fixture _____
 Number of ballasts in the fixture _____
 Total wattage per fixture _____
 Total interior wattage specified vs. allowed _____
 Total exterior wattage specified vs. allowed _____

Additional Prescriptive Compliance
 506.2.1 More Efficient Mechanical Equipment
 506.2.2 Reduced Lighting Power Density
 506.2.3 Energy Recovery Ventilation Systems
 506.2.4 Higher Efficiency Service Water Heating
 506.2.5 On-site Supply of Renewable Energy
 506.2.6 Automatic Daylighting Control Systems

ABBREVIATIONS

@	at	LAM.	laminate
AL.T.	alternate	LAV.	lavatory
ALUM.	aluminum	LTL	lintel
APPR.	approximate	L.T. WT.	light weight
BD.	board	MAG.	magnetic
BLDG.	building	MAS.	masonry
B.U.R.	built up roof	MAX.	maximum
C.J.	control joint	MECH.	mechanical
CLG.	ceiling	MIN.	minimum
CLR.	clear	M.O.	masonry opening
C.M.U.	concrete masonry unit	M.R.	moisture resistant
COL.	column	M.T.	metal threshold
CONC.	concrete	MTL. or MET.	metal
CONT.	continuous	N.I.C.	not in contract
CONTR.	contractor	N.T.S.	not to scale
C.T.	ceramic tile	O.C.	on center
DIM.	dimension	OPNG	opening
DN.	down	OPP.	opposite
DS.	downspout	PART'N.	partition
DWG.	drawing	PL.	plate
EA.	each	PLYWD.	plywood
E.J.	expansion joint	PREFIN.	pre-finish
EL. or ELEV.	elevation	PT.	point
ELEC.	electrical	PWR.	power
EQ.	equal	R.A.G.	return air grill
E.W.C.	electric water cooler	R.D.	room drain
EXIST.	existing	REF.	reference
EXP.	expansion	REIN.F.	reinforced
F.D.	floor drain	REQ'D.	required
FIN.	finish	RM.	room
FL.	floor	RW. L.	rainwater leader
F.O.B.	face of brick	SIM.	similar
F.O.C.	face of concrete	S.STL.	stainless steel
F.O.M.	face of masonry	STL.	steel
GA.	gauge	STRUCT.	structural
GALV.	galvanized	SUSP.	suspended
G.B.	grab bar	THLD.	threshold
GL.	glass	TYP.	typical
GYP.	gypsum	V.C.T.	vinyl composition tile
H.M.	hollow metal	V.I.F.	verify in field
HT.	height	V.I.W.C.	vinyl wall covering
INSUL.	insulation	WD.	wood
INV.	invert	W/	with
JT.	joint		

SYMBOLS AND NOTATIONS

NAME	AREA NAME	CONCRETE MASONRY
NO	AREA NUMBER	BRICK
DOOR TYPE OR NUMBER		CONCRETE
DRAWING NUMBER		PLYWOOD
SHEET NUMBER		FINISH WOOD
ELEVATION NUMBER & DIRECTION OF VIEW		BATT INSULATION
SHEET NUMBER		RIGID INSULATION
SECTION NUMBER & DIRECTION OF VIEW		PLASTER, GYP. BD.
SHEET NUMBER		EARTH
DETAIL NUMBER		
SHEET NUMBER		
COLUMN LINE NUMBER		
EQUIPMENT TYPE OR NUMBER		
CASEWORK TYPE OR NUMBER		

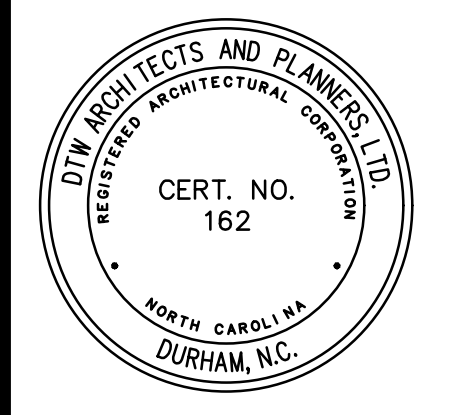
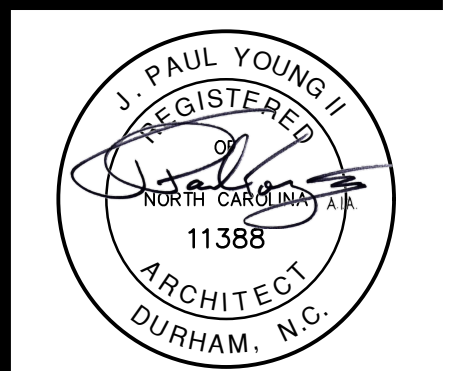
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DATA SHEET

Renovations to:
ORANGE MIDDLE SCHOOL INFORMATIONAL SIGNAGE

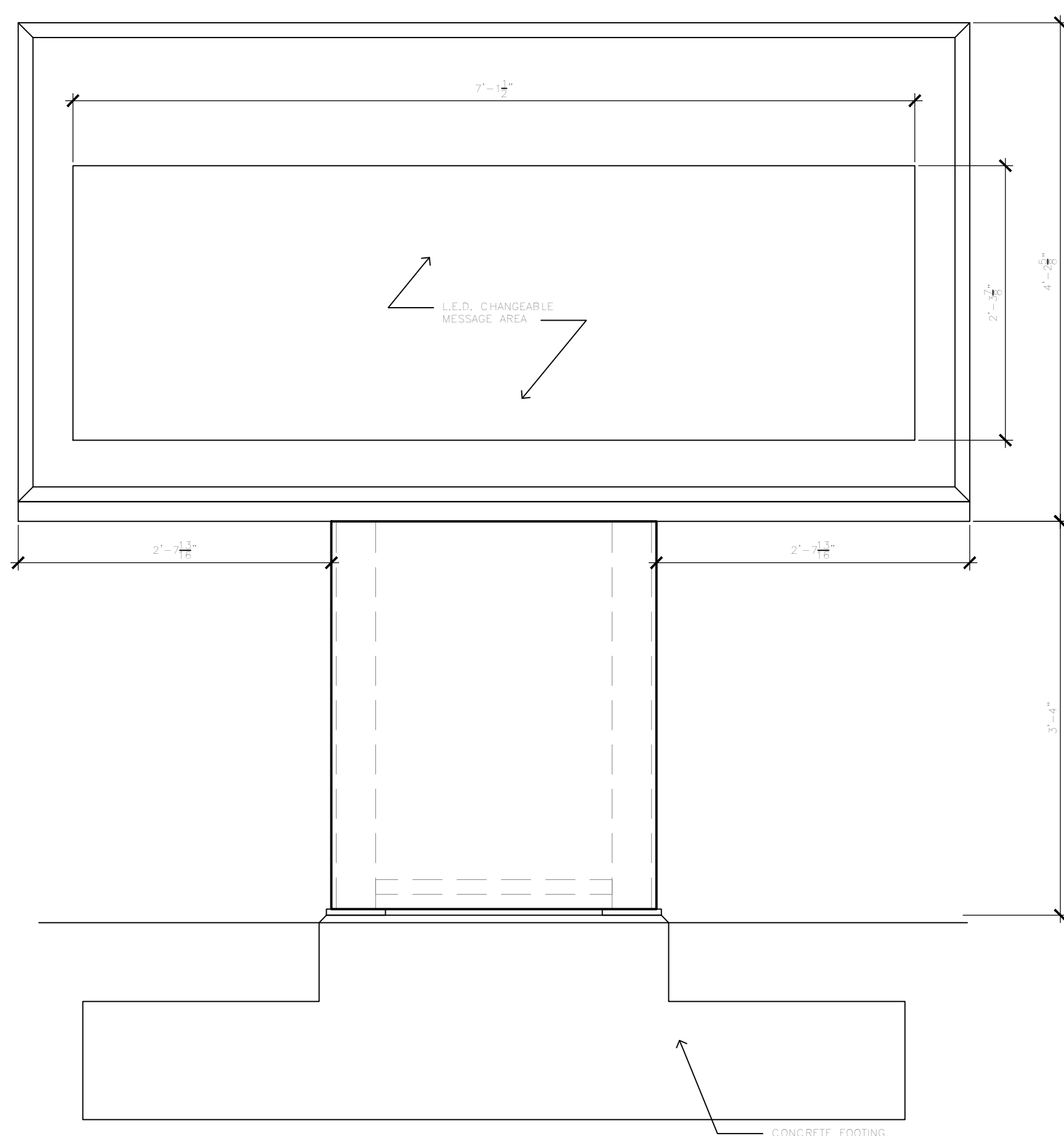
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 HILLSBOROUGH, NC 27278

PROJECT NUMBER: 25032

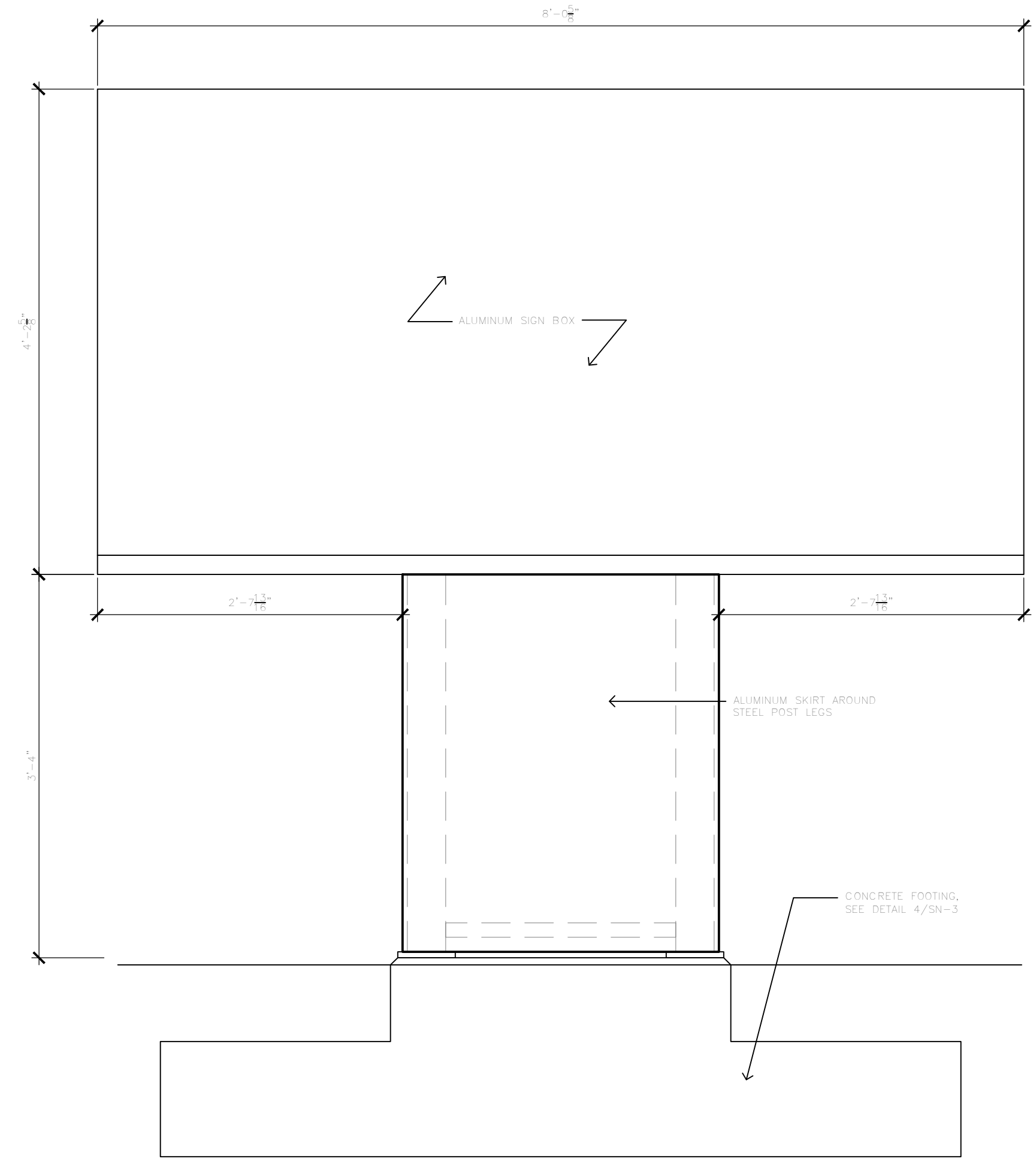


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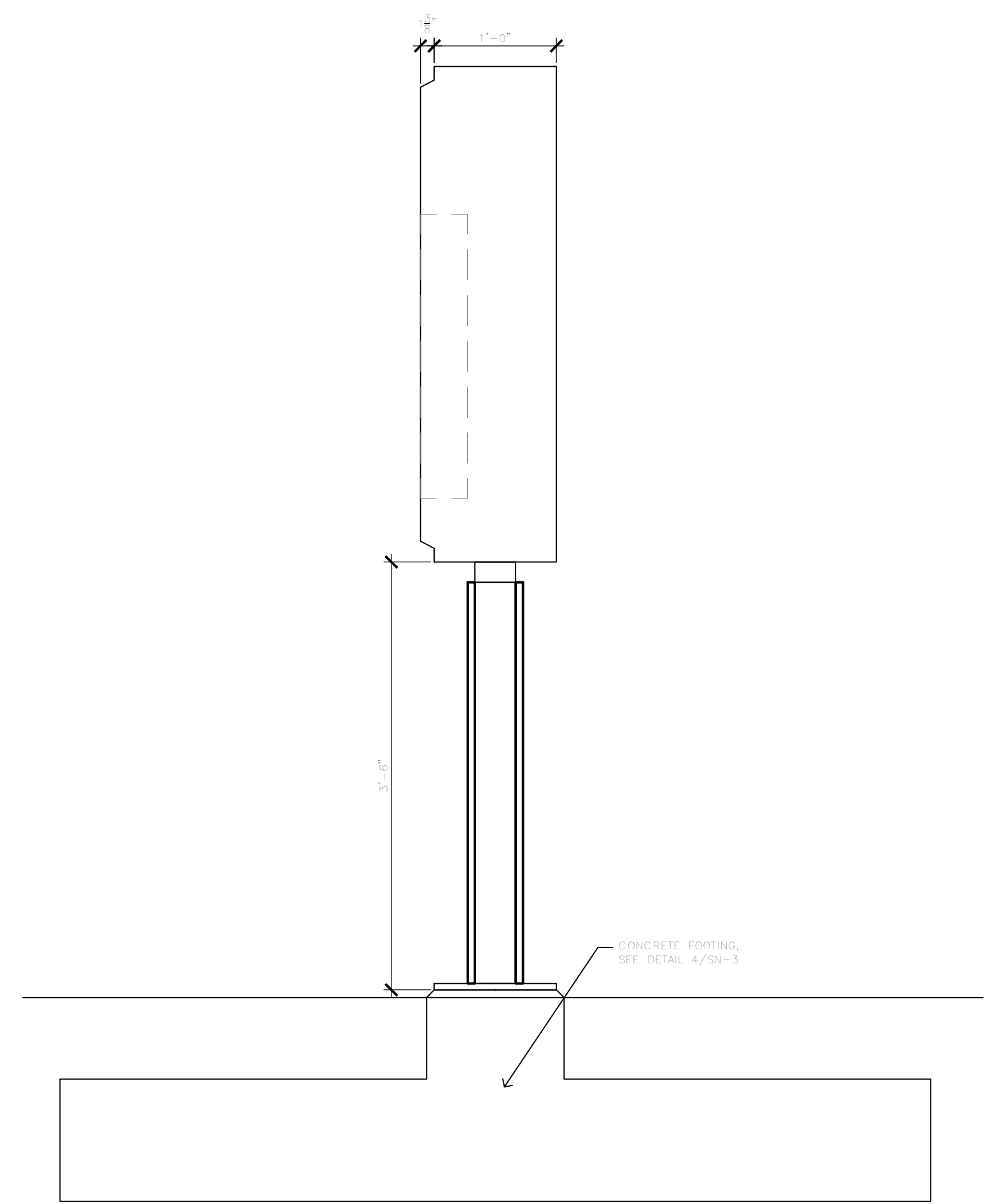
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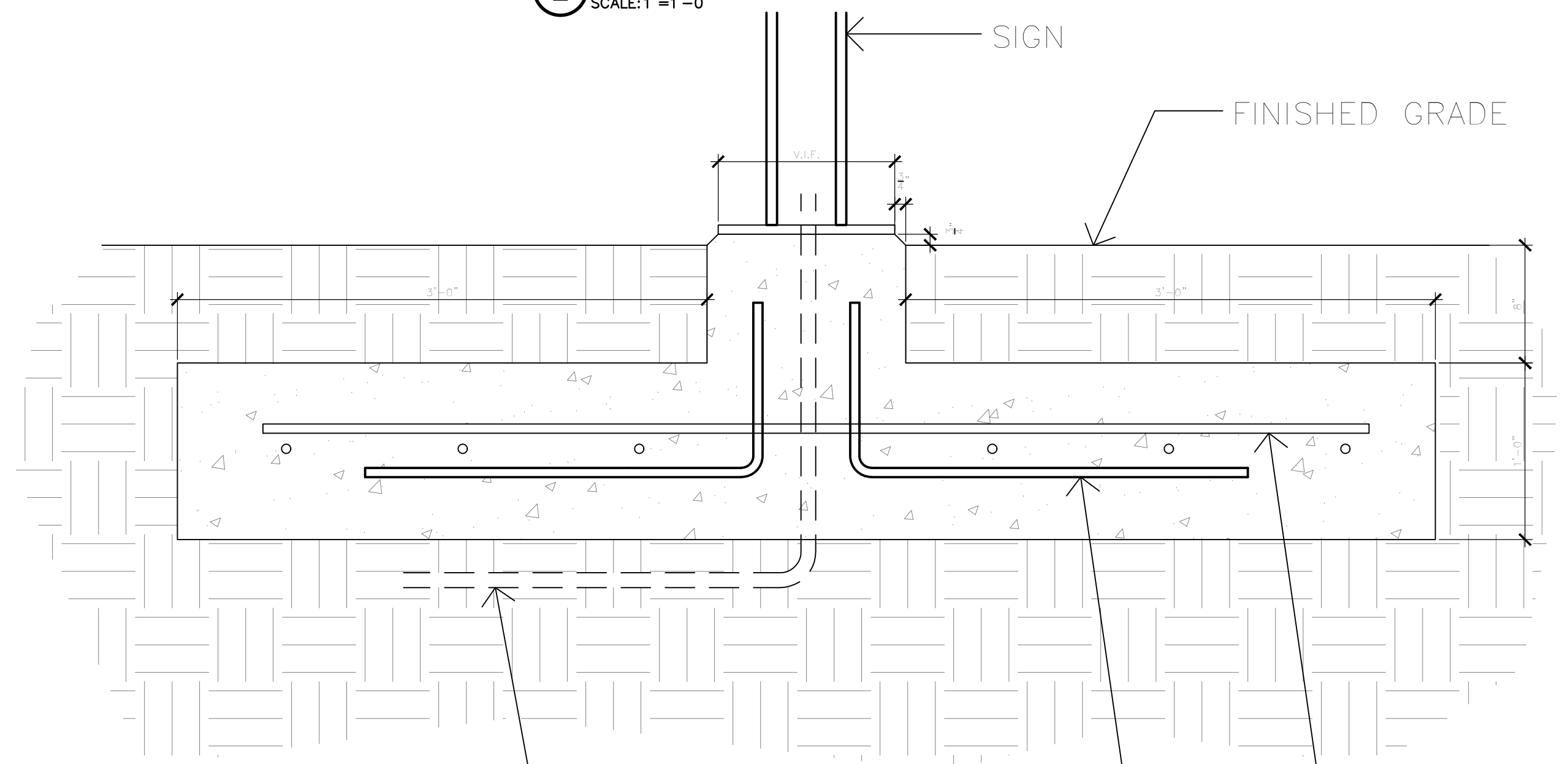
1 NEW INFORMATIONAL SIGN – FRONT ELEVATION
SCALE: 1"=1'-0"



2 NEW INFORMATIONAL SIGN – REAR ELEVATION
SCALE: 1"=1'-0"



3 NEW INFORMATIONAL SIGN – SIDE ELEVATION
SCALE: 1"=1'-0"



ROUTE ELECTRICAL CONDUIT UP THROUGH FOOTING

#5 REBAR, TURN UP INTO PEDESTAL AT 12" O.C.

#5 REBAR, 12" O.C. BOTH WAYS

4 FOOTING DETAIL
SCALE: 1-1/2"=1'-0"

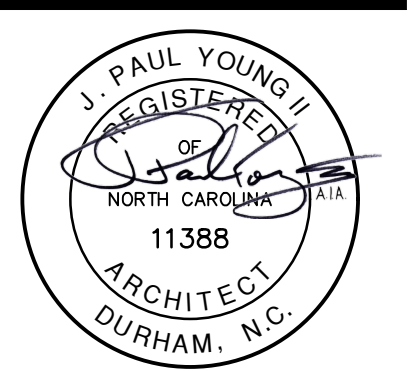
NOTE: SIGN SHALL BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR. SIGN IS ON SITE IN GYMNASIUM AND SHALL BE TRANSPORTED BY CONTRACTOR TO INSTALLATION LOCATION, INSTALLED AND WIRED. INSTALLATION INFORMATION IS INCLUDED IN THE SPECIFICATION

SIGN ELEVATIONS
SECTION
FOOTING DETAIL

Renovations to:
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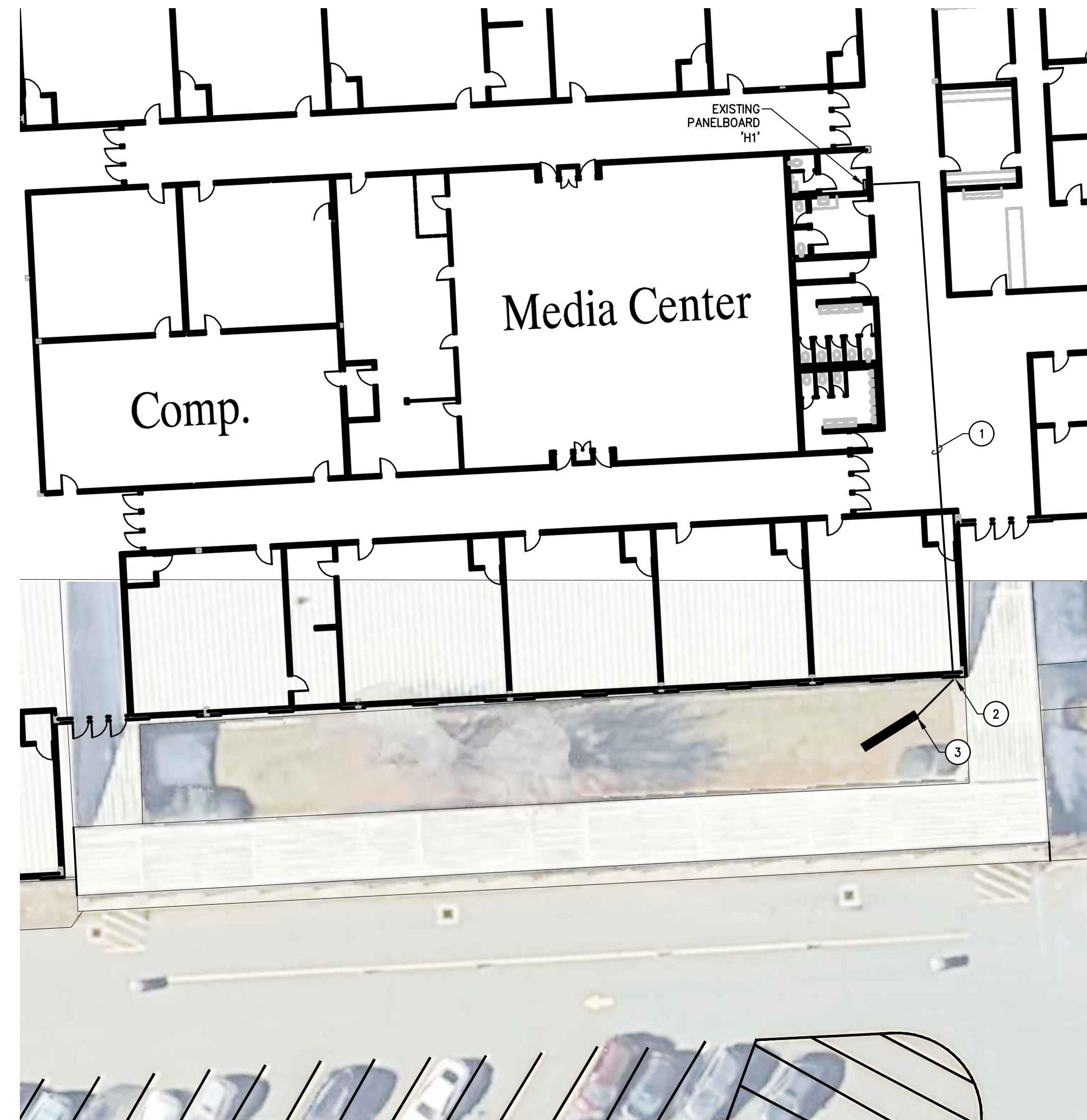
SN-3
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ELECTRICAL SPECIFICATIONS

- 1.0 GENERAL
- 1.1 PROVIDE ALL WORK, EQUIPMENT, SERVICES, LABOR, AND MATERIALS FOR THE CONSTRUCTION OF NEW ELECTRICAL SYSTEMS AS DESCRIBED OR IMPLIED BY THE CONTRACT DOCUMENTS.
- 1.2 THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO INCLUDE EVERY DETAIL OF CONSTRUCTION, MATERIALS, AND EQUIPMENT. TAKE ACTUAL FIELD MEASUREMENTS AT THE JOB SITE IN LIEU OF SCALING THE DRAWINGS.
- 1.3 ALL WORK AND MATERIALS SHALL COMPLY WITH APPLICABLE STATE, LOCAL, AND NATIONAL CODES (INCLUDING OSHA); COMPLIANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (2020 AS ADOPTED BY THE STATE OF NORTH CAROLINA) AND THESE SPECIFICATIONS SHALL BE THE MINIMUM STANDARD OF ACCEPTANCE.
- 1.4 ALL WORK SHALL BE INSPECTED BY THE LOCAL AHJ DURING REGULAR BUSINESS HOURS (M-F, 8:00AM - 5:00PM). IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO CONTACT THE LOCAL INSPECTOR TO SCHEDULE ALL ROUGH-IN AND FINAL INSPECTIONS. NO WORK SHALL BE CONCEALED UNTIL IT HAS BEEN INSPECTED AND APPROVED BY THE ELECTRICAL INSPECTOR AND ENGINEER.
- 1.5 LOCATIONS INDICATED FOR OUTLETS, EQUIPMENT, ETC., ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR AND COORDINATED WITH THE OWNER AND FINAL EQUIPMENT LOCATIONS.
- 1.6 PROVIDE ONLY NEW MATERIALS AND EQUIPMENT LISTED AND LABELED (FOR THE USE INTENDED) BY AN APPROVED THIRD PARTY LABORATORY SERVICE SUCH AS UNDERWRITER'S LABORATORIES, INC. THIRD PARTY AGENCIES SHALL BE ONE OF THOSE ACCREDITED BY THE NCBC (NC BUILDING CODE COUNCIL) TO LABEL ELECTRICAL AND MECHANICAL EQUIPMENT.
- 1.7 SUBMIT SHOP DRAWINGS AND CATALOG DATA IN ONE (1) ELECTRONIC COPY FOR LIGHT FIXTURES, GEAR, MATERIALS AND ALL SPECIAL SYSTEMS.
- 2.0 CONDUITS:
 - 2.1 ALL EXTERIOR CONDUIT INSTALLED ABOVE GROUND SHALL BE GALVANIZED RIGID STEEL (GRS). ALL INTERIOR CONDUIT SHALL BE EMT. FOR ELBOWS AND TURN-UPS TRANSITION FROM PVC TO GRS.
 - 2.2 ALL CONDUIT INSTALLED UNDERGROUND SHALL BE 1" MINIMUM SCHEDULE 40 PVC OR AS SHOWN ON DRAWINGS.
 - 2.3 SEAL CONDUIT AT BUILDING PENETRATIONS TO BE WATER TIGHT. SEAL CONDUIT INTERIOR AT THESE PENETRATIONS TO BE AIR TIGHT.
 - 2.4 CONTRACTOR TO LOCATE ALL EXISTING UTILITIES. COORDINATE LOCATES WITH BOTH UTILITIES AND OWNER OWNED.
- 3.0 WIRING:
 - 3.1 CONDUCTORS SHALL BE COPPER, THHN/THWN, SOLID FOR #10 AWG OR #12 AWG, AND STRANDED FOR ALL LARGER SIZES. ALL CONDUCTORS SHALL BE COLOR-CODED.
 - 3.2 ALL CONDUCTORS AND CABLES SHALL BE INSTALLED IN CONDUITS AND TESTED FOR CONTINUITY AND GROUND BEFORE BEING ENERGIZED.
 - 3.3 THE CONDUIT AND ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE GROUNDED. PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR AND DEDICATED NEUTRAL CONDUCTOR WITH EVERY CIRCUIT.
- 4.0 LIGHTING EQUIPMENT:
 - 4.1 REFER TO LIGHT FIXTURE SCHEDULE.
- 5.0 ELECTRICAL IDENTIFICATION:
 - 5.1 CIRCUIT IDENTIFICATION LABELS SHALL BE INSTALLED ON EQUIPMENT, BOXES AND COVERS. INSTALL LABELS EXTERNALLY USING MATERIALS SUITABLE FOR THE ENVIRONMENT. LABEL SHALL LIST PANEL AND CIRCUIT NUMBER OR EQUIVALENT.
 - 5.2 PROVIDE TYPED UPDATED PANEL DIRECTORIES FOR ALL MODIFIED PANELBOARDS.

GENERAL ELECTRICAL NOTES:

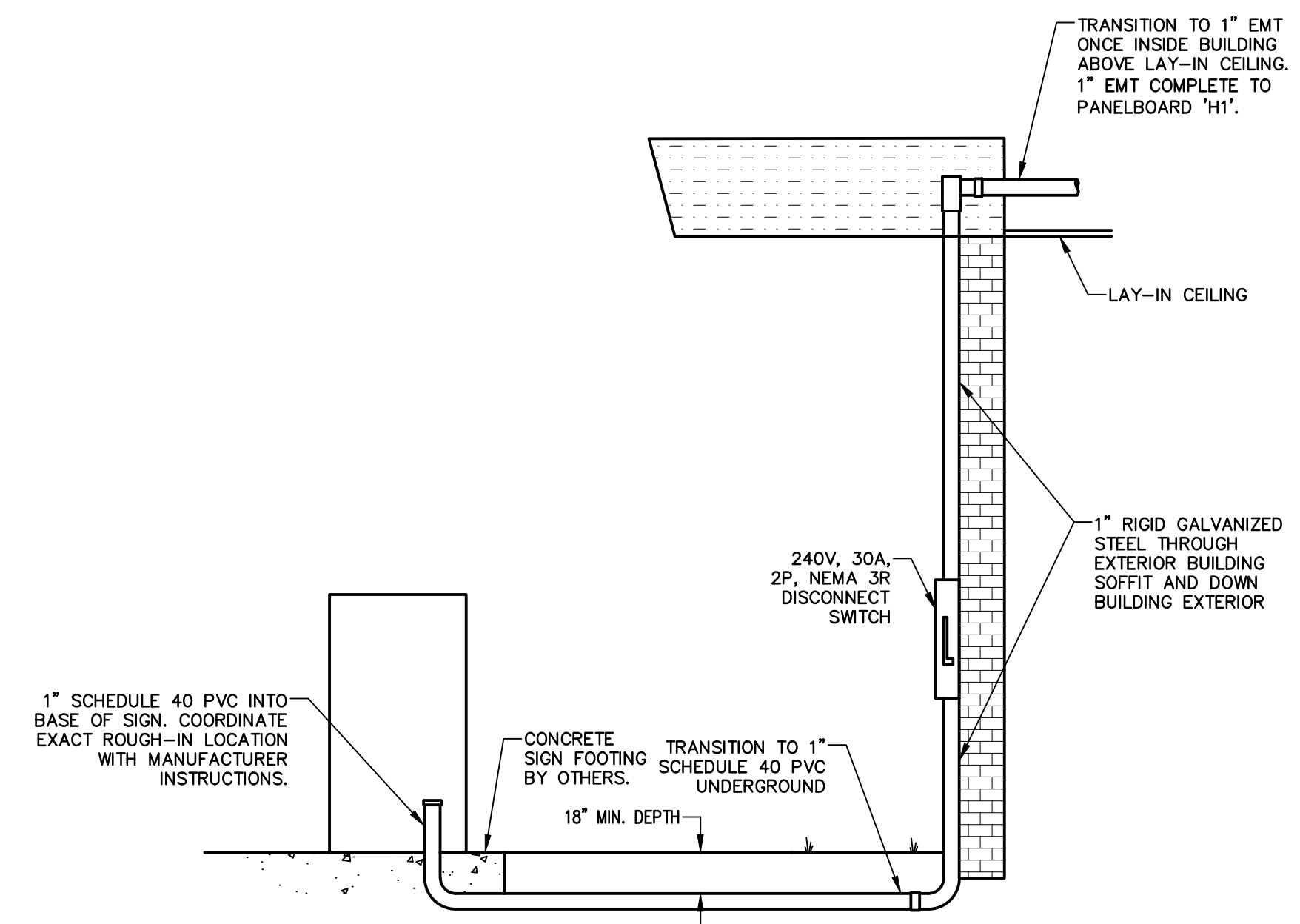
1. THE CONTRACTOR SHALL VERIFY EQUIPMENT NAMEPLATE INFORMATION BEFORE INSTALLING CONDUIT, WIRING, CIRCUIT BREAKERS, DISCONNECT SWITCHES OR FUSES.
2. NO PRODUCT SUBSTITUTIONS OR CHANGES SHALL BE MADE WITHOUT COORDINATION AND VERIFICATION WITH ENGINEER OF RECORD. IN THE EVENT THE CONTRACTOR USES PRODUCTS OTHER THAN THE BASIS OF DESIGN WITHOUT COORDINATING WITH THE ENGINEER, HE ASSUMES FULL RESPONSIBILITY FOR ANY ADDITIONAL COSTS RESULTING FROM REPLACING SAID SUBSTITUTIONS.
3. ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE ELECTRICAL DRAWINGS REGARDING BUILDING CONSTRUCTION, DIMENSION AND ARRANGEMENT. LINES THAT REQUIRE SLOPE, SUCH AS PLUMBING WASTE LINES SHALL TAKE PRECEDENCE OVER ELECTRICAL LINES. CONTRACTOR SHALL COORDINATE CLOSELY WITH ALL TRADES TO AVOID CONFLICTS AND SHALL PROVIDE ALL OFFSETS AND EQUIPMENT AS REQUIRED TO FIT THE ELECTRICAL WORK INTO THE AVAILABLE SPACE.
4. COORDINATE ANY AND ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION SO AS TO AVOID CONFLICT DURING CONSTRUCTION.
5. ALL PANELS SHALL HAVE TYPED, COMPLETED DIRECTORIES INDICATING EQUIPMENT SERVED AND ROOM NUMBER (AS INDICATED ON FINAL BUILDING ROOM SIGNAGE) OF EQUIPMENT LOCATION, OR SPARE, OR SPACE.
6. THE CONTRACTOR SHALL READ AND UNDERSTAND THE ENTIRE SET OF CONSTRUCTION DOCUMENTS WHICH INCLUDES BUT IS NOT LIMITED TO THE SPECIFICATIONS, ARCHITECTURAL, CIVIL, STRUCTURAL AND ALL ENGINEERING DRAWINGS, SO THAT HE MAY UNDERSTAND THE FULL SCOPE OF WORK AND CONVEY THE PROPER REQUIRED MATERIALS AND METHODS OF INSTALLATION TO THE ESTIMATORS, SUPPLIERS AND INSTALLERS.
7. THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS IN ORDER TO OBTAIN A FULL UNDERSTANDING OF WORK TO BE DONE. THE CONTRACTOR SHALL INSPECT AND OBSERVE THE EXISTING SITE, BUILDING, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL CONDITIONS PRIOR TO BEGINNING DEMOLITION AND SHALL PERFORM HIS WORK IN A MANNER TO ACCOMMODATE THESE EXISTING CONDITIONS.
8. NO EXISTING POWER (CIRCUIT BREAKER, DISCONNECT SWITCHES, ETC.) IS TO BE TURNED OFF UNTIL VERIFIED THAT IT IS NOT IN CURRENT USE AND UNTIL APPROVED BY THE OWNER.
9. ALL ELECTRICAL EQUIPMENT WIRING TERMINALS SHALL BE 75 DEG. RATED.
10. FINAL LOCATIONS OF ALL POWER DEVICES SHALL BE COORDINATED WITH FINAL EQUIPMENT PLAN PRIOR TO ROUGH-IN OF ANY LOCATIONS.
11. IN FINISHED SPACES, ALL CONDUIT SHALL BE CONCEALED AND ALL OUTLET BOXES SHALL BE FLUSH MOUNTED.
12. ALL DISCONNECTS SHALL BE HEAVY DUTY AND HAVE A GROUND BAR, A NEUTRAL BAR (WHERE CIRCUIT HAS A NEUTRAL CONDUCTOR) AND TOOL DEFEATABLE DOOR INTERLOCKS.



1 Electrical Site Plan
E1.1 SCALE: 1"=16'

RENOVATION KEYNOTES:

- ① 1" EMT ABOVE LAY-IN CEILING COMPLETE TO EXISTING PANEL 'H1'.
- ② DISCONNECT SWITCH ON EXTERIOR BRICK FACE OF BUILDING. COORDINATE WITH EXISTING LOW VOLTAGE SYSTEMS MOUNTED ON BUILDING AND ON SOFFIT.
- ③ CONDUIT TURNS UP INTO SIGN FOOTING. SEE SIGN ROUGH-IN DETAIL THIS SHEET.



2 Sign Rough-in Detail
E1.1 SCALE: Not To Scale

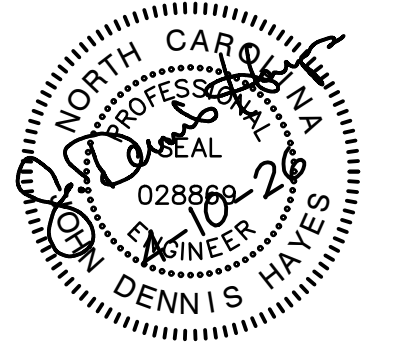
NOTES	CKT	LOAD	DESCRIPTION	EXISTING PANEL 'H1'												DESCRIPTION	LOAD	CKT	NOTES
				COND	EGC	N	W	CB	LOAD	CB	W	N	EGC	COND					
	1	720	ROOM 122	EX	EX	EX	EX	20	1440	20	EX	EX	EX	EX	ROOM 119	720	2		
	3	720	ROOM 124	EX	EX	EX	EX	20	1440	20	EX	EX	EX	EX	ROOM 124	720	4		
	5	720	ROOM 126	EX	EX	EX	EX	20	1440	20	EX	EX	EX	EX	ROOM 123	720	6		
	7	720	ROOM 128	EX	EX	EX	EX	20	1440	20	EX	EX	EX	EX	ROOM 117, 118, 119, 121	720	8		
	9	720	GF RECEPT CONTROL	EX	EX	EX	EX	20	1440	20	EX	EX	EX	EX	ROOM 123, 124, 125, 126	720	10		
	11	500	HEAT TAPE ON CHILLER	EX	EX	EX	EX	20	1700	30	EX	EX	EX	EX	OUTDOOR UNIT SS-SB	1200	12		
	13	720	UNKNOWN	EX	EX	EX	EX	20	1820	20	EX	EX	EX	EX	INDOOR UNIT SS-SA	1200	14		
	15	720	UNKNOWN	EX	EX	EX	EX	20	720	20					SPARE	18			
	17	500	FIRE ALARM PANEL OFFICE	EX	EX	EX	EX	20	500	20					SPARE	18			
	2	19	1200	OUTDOOR SIGN	1"	10	10	10	1200	20					SPARE	20			
		21		SPARE					0	20				SPARE	22				
		23		SPARE					0	20				SPARE	24				
		25		SPARE					0	20				SPARE	26				
		27		SPARE					0	20				SPARE	28				
		29		SPARE					0	20				SPARE	30				
		31		SPARE					0	20				SPARE	32				
		33		SPARE					0	20				SPARE	34				
		35		SPARE					0	20				SPARE	36				
		37		SPARE					0	20				SPARE	38				
		39		SPARE					0	20				SPARE	40				
		41		SPARE					0	20				SPARE	42				
				FEED THROUGH DEVICE															
				208Y/ 120 VOLTS				3	PHASE	4 WIRE				SURFACE MOUNT					
				225 BUSS AMPS				X	MLO	X GROUND BAR				NEMA 1					
				225 FEEDER AMPS						NA SE RATED				22K AIC MINIMUM					
				MCB AMPS				NA	MCB										
NOTES:	1		EXISTING PANEL IS CUTLER-HAMMER POW-R-LINE C PRL1A PANELBOARD												AMPS	PHASE TOTALS:	KVA		
	2		USE EXISTING SPARE CIRCUIT BREAKER FOR NEW SIGN CIRCUIT												50.00	PHASE A:	6.00		
	3		CONTRACTOR TO CONFIRM EXISTING CIRCUITS AND TURN OFF ALL SPARE BREAKERS											30.00	PHASE B:	3.60			
	4													30.24	PHASE C:	3.64			
	5													36.78	TOTAL CONNECTED	13.24			
														36.78	TOTAL DEMAND *	13.24			

ELECTRICAL SITE PLAN

Renovations to:
ORANGE MIDDLE SCHOOL INFORMATIONAL SIGNAGE

308 ORANGE HIGH SCHOOL RAOD
HILLSBOROUGH, NC 27278

PROJECT NUMBER: 25032



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CONSTRUCTION DOCUMENTS

Revisions

Drawn NJF
Checked MS3
Date APRIL 10, 2026
Sheet

E1.1

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