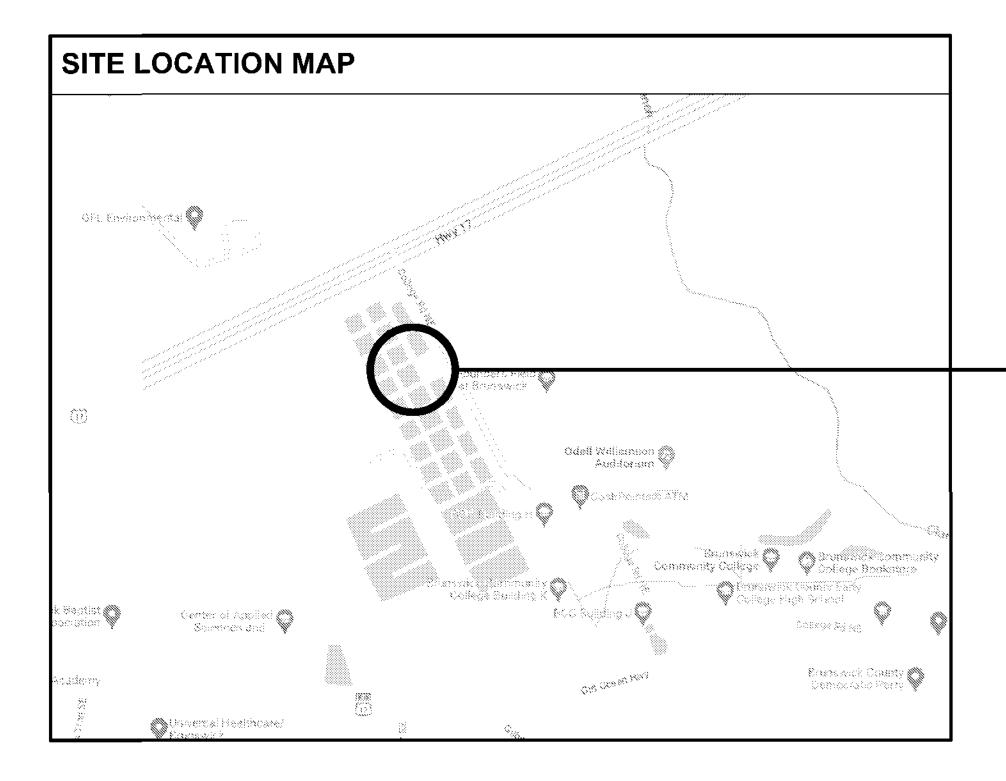
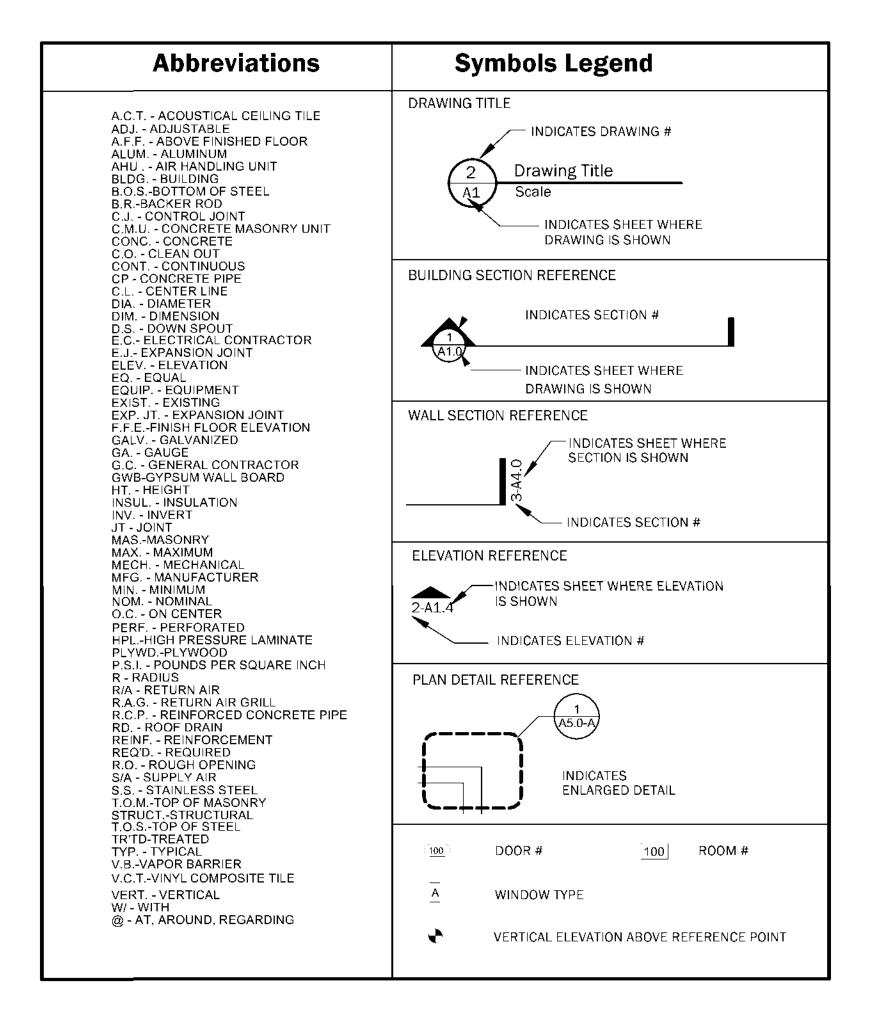
SCO Project ID #: 22-25751-02A NCCS Project ID #: 2704 Brunswick Community College Alan Holden Public Safety Center

301 College Rd NE Bolivia, NC 28422

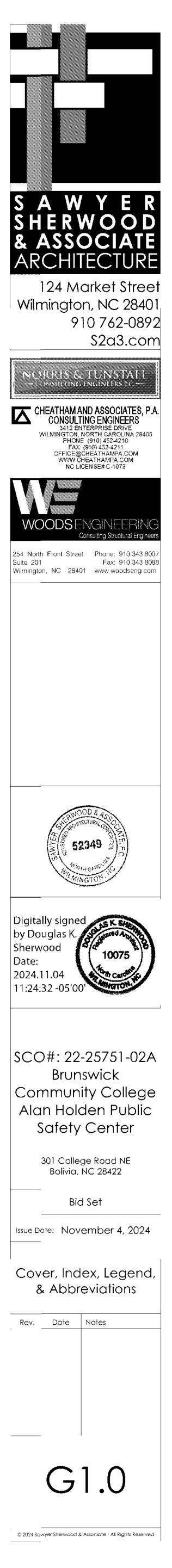
Bid Set November 4, 2024





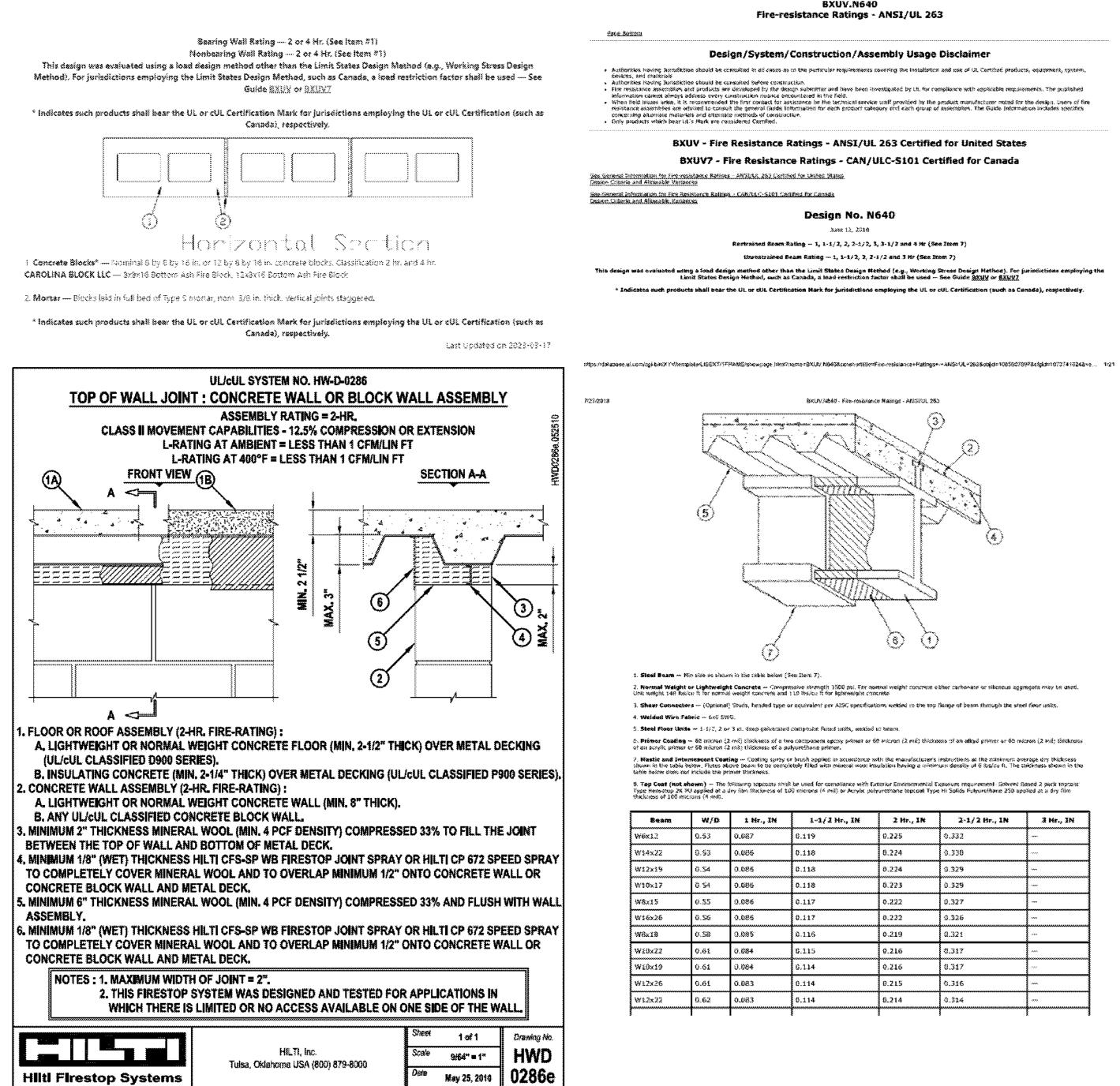
PROJECT LOCATION

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Design No. U937

March 17, 2023



Saving Lives through Innovation and Education

Design No. N640 BXUV.N640

7:22:2318

- (b) ONLINE CERTIFICATIONS DIRECTORY

Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

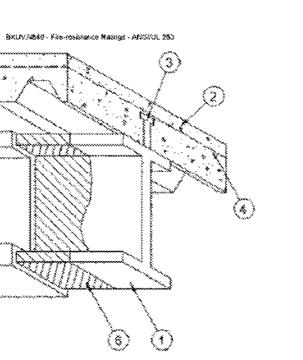
BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. N640 Nove 12, 2018

Restrained Beam Rating - 1, 1-1/2, 2, 2-1/2, 3, 3-1/2 and 4 Hr (See Item 7)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, s load restriction factor shall be used -- See Guide <u>XXIII</u>



 Normal Weight or Lightweight Concrete -- Compressive strength 3500 psi, Fer normal weight concrete either carbonate or silverus aggregate may be used.
 Unit stellphi 148 Basice & for normal weight concrete and 118 Basice & for Agbregate concrete 3. Shear Connectors -- (Optional) Study, headed type or equivalent per AISC specifications welfed to the top these of beam through the steel floor units.

2. Nestic and Internescent Costing — Costing spray or brush applied in accordance with the manufactorer's instructions at the minimum overage dry thickness sharen in the table before tables, Pietes above beam to be completely filled with mineral wood insulation having a minimum density of 6 85/cu ft. The tablemest sharen in the table before done not include the primer thickness.

	gaorum requirement, powers sa Hi Solids Folycrethane 250 opp	
	2	ł

~1/ 1 MF., 1M	2 NK, 14	4 ^1/	.a ptr., ipi
)	0.225	0.332	
)	8.224	0.330	
\$	8.234	0.329	•••
1	8.223	Ó329	
•	0.222	0.327	
•	8.222	0.326	***
	0.219	0.321	
5	9.216	0.317	
	0.216	0.317	
	0.215	0.316	
,	8.214	0.314	

2018 APPENDIX B **BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS** (EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES) the following data on the building plane shoot 1 or '

Address: <u>301 College Road NE, Bolivia, NC</u> Zip Code <u>28422</u>	Center		
Owner/Authorized Agent: Sawyer Sherwood & Associate, P.C. Phone # (910) 762-0892 E-Mail doug:@s2a3.com Owned By: County			
CONTACT:			
ArchitecturalSawyer Sherwood & Associate, PCDoug Sherwood10075(910)CivilNorris & Tunstall Cons, Engr. P.C.Phillip Norris11966(910)ElectricalCheatham & Associates, PAMark Ciarrocca17593(910)Fire AlarmCheatham & Associates, PAMark Ciarrocca17593(910)PlumbingCheatham & Associates, PAMark Ciarrocca17593(910)MechanicalCheatham & Associates, PACasey Gilman43164(910)SprinklerCheatham & Associates, PACasey Gilman43164(910)	EPHONE # EMAIL <u>0)762-0892</u> doug@s2a3.com <u>0)287.5900</u> pnorris@ntengineers.com <u>0)452-4210</u> nciarroca@cheathampa.com <u>0)452-4210</u> cgilman@cheathampa.com <u>0)452-4210</u> cgilman@cheathampa.com <u>0)452-4210</u> klynch@cheathampa.com <u>0)452-4210</u> cgilman@cheathampa.com <u>0)452-4210</u> cgilman@cheathampa.com <u>0)452-4210</u> cgilman@cheathampa.com <u>0)343-8007</u> adam@woodseng.com		
2018 NC BUILDING CODE: New Building 2018 NC EXISTING BUILDING CODE: N/A N/A 2018 NC EXISTING BUILDING CODE: N/A N/A CONSTRUCTED: (date) N/A CURRENT OCCUPANO RENOVATED: (date) N/A PROPOSED OCCUPANO RISK CATEGORY (Table 1604.5): Current: N/A P			
BASIC BUILDING DATA Construction Type: <u>II-B</u> Sprinklers: <u>Yes</u> <u>NFPA 13</u> Standpipes: <u>No</u>			
Primary Fire District: <u>No</u> Flood Hazard Area: <u>N</u> Special Inspections Required: <u>Yes (Contact the local inspection jurisdiction</u>	<u>101</u>		
Primary Fire District: <u>No</u> Special Inspections Required: <u>Yes (Contact the local inspection jurisdiction</u> <u>additional procedures and requirements.)</u>	<u>101</u>		
Primary Fire District: No Flood Hazard Area: No Special Inspections Required: Yes (Contact the local inspection jurisdiction additional procedures and requirements.) Gross Building Area Table FLOOR EXISTING (SQ FT) NEW (SQ FT) 3rd Floor	<u>Ior</u> Sub-Total		
Primary Fire District: No Flood Hazard Area: No Special Inspections Required: Yes (Contact the local inspection jurisdiction additional procedures and requirements.) Gross Building Area Table FLOOR EXISTING (SQ FT) NEW (SQ FT)			
Primary Fire District: No Flood Hazard Area: No Special Inspections Required: Yes (Contact the local inspection jurisdiction additional procedures and requirements.) Gross Building Area Table FLOOR EXISTING (SQ FT) NEW (SQ FT) 3 rd Floor 2 rd Floor	SUB-TOTAL		

Special Uses (Chapter 4 – List Code Sections): Section 406 Motor-Vehicle-Related Occupancies Special Provisions: (Chapter 5 – List Code Sections): 505 Mezzanines and Equipment Platforms Mixed Occupancy: Yes Separation: <u>1 Hr.</u> Exception: <u>Sprinkler Reduction from 2hr to 1hr</u>

Select one

 $\frac{Actual Area of Occupancy A}{Allowable Area of Occupancy A} + \frac{Actual Area of Occupancy B}{Allowable Area of Occupancy B} \leq 1$

	<u>23.437</u> 92.000	+ _	<u>4,794</u> 104.00		<u>≤</u> 1.00
STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.24 AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{1,3}
1	Business	23,437	92,000	N/A	92,000
1	S2	4,794	104,000	N/A	104,000
Total	Business	28,231	92,000	N/A	92,000

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)

c. Ratio $(F/P) = _$ (F/P)d. W = Minimum width of public way = ____ (W) e. Percent of frontage increase $I_f = 100[F/P - 0.25] \times W/30 = ____ (\%)$

² Unlimited area applicable under conditions of Section 507. ³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).

⁴ The maximum area of open parking garages must comply with Table 406.5.4. ⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE 1		
Building Height in Feet (Table 504.3) ²	75 S	25			
Building Height in Stories (Table 504.4) ³ 4 S 1					
 ¹ Provide code reference if the "Shown on Pl ² The maximum height of air traffic control to ³ The maximum height of open parking garage 	owers must comply with	Table 412.3.1.	ŀ.		

FIRE PROTECTION REQUIREMENTS

Bearing waitsImage: ParticularExteriorImage: ParticularNorthX > 30°EastX > 30°WestX > 30°SouthX > 30°InteriorImage: ParticularNonbearing Walls and PartitionsImage: ParticularExterior wallsImage: ParticularNorthX > 30°EastX > 30°EastX > 30°WestX > 30°SouthX > 30°Interior walls and partitionsImage: ParticularSouthX > 30°SouthX > 30°Interior walls and partitionsImage: ParticularFloor ConstructionImage: ParticularIncluding supporting beamsImage: Particularand joistsFloor Ceiling AssemblyColumns Supporting FloorsRoof Construction, includingRoof Ceiling AssemblyColumns Supporting Roof	REQ'D Ohr	PROVIDED (W/* REDUCTION)	AND SHEET #	FOR RATED ASSEMBLY	RATED PENETRATION	FOR RATED JOINTS
Structural Frame, including columns, girders, trussesX30°Bearing WallsX > 30°1Exterior1NorthX > 30°1EastX > 30°1WestX > 30°1SouthX > 30°1Interior11Nonbearing Walls and Partitions1Exterior walls1NorthX > 30°EastX > 30°SouthX > 30°Interior1NorthX > 30°EastX > 30°SouthX > 30°EastX > 30°SouthX > 30°Floor Construction Including supporting beams and joists1Floor Ceiling Assembly2Columns Supporting Floors8Roof Construction, including supporting beams and joists1Roof Ceiling Assembly2Columns Supporting Roof1	Ohr Ohr Ohr Ohr Ohr Ohr Ohr Ohr Ohr Ohr					
including columns, girders, trussesX > 30°Bearing WallsX > 30°ExteriorImage: Columns and partitionsEastX > 30°EastX > 30°WestX > 30°SouthX > 30°InteriorImage: Columns and partitionsExterior wallsImage: Columns and partitionsNorthX > 30°EastX > 30°NorthX > 30°Exterior wallsImage: Columns and partitionsFloor ConstructionInteriorIncluding supporting beamsImage: Columns Supporting FloorsRoof Construction, including supporting beams and joistsImage: Columns Supporting Roof	Ohr Ohr Ohr Ohr Ohr Ohr Ohr Ohr Ohr Ohr					
Bearing WallsX > 30°Exterior X NorthX > 30°EastX > 30°EastX > 30°WestX > 30°SouthX > 30°Interior X Nonbearing Walls and Partitions X Exterior walls X NorthX > 30°EastX > 30°SouthX > 30°EastX > 30°WestX > 30°SouthX > 30°Floor Construction Including supporting beams and joists X Floor Ceiling AssemblyColumns Supporting FloorsRoof Construction, including supporting beams and joists X Roof Ceiling Assembly X Columns Supporting Roof X	Ohr Ohr Ohr Ohr Ohr Ohr Ohr Ohr Ohr Ohr					
ExteriorImage: spectral symbolNorthX > 30°EastX > 30°WestX > 30°SouthX > 30°InteriorImage: spectral symbolNonbearing Walls and PartitionsX > 30°Exterior wallsX > 30°NorthX > 30°Exterior wallsX > 30°WestX > 30°EastX > 30°WestX > 30°SouthX > 30°Floor ConstructionInterior walls and partitionsFloor ConstructionIncluding supporting beams and joistsFloor Ceiling AssemblyColumns Supporting FloorsRoof Construction, including supporting beams and joistsRoof Ceiling AssemblyColumns Supporting Roof	Ohr Ohr Ohr Ohr Ohr Ohr Ohr Ohr Ohr Ohr					
NorthX > 30°EastX > 30°WestX > 30°SouthX > 30°InteriorInteriorNonbearing Walls and PartitionsX > 30°Exterior wallsX > 30°Exterior wallsX > 30°BastX > 30°WestX > 30°Floor Construction Including supporting beams and joistsInteriorFloor Ceiling AssemblyColumns Supporting FloorsRoof Construction, including supporting beams and joistsRoof Ceiling AssemblyColumns Supporting RoofColumns Supporting Roof	Ohr Ohr Ohr Ohr Ohr Ohr Ohr Ohr Ohr Ohr					
EastX > 30°WestX > 30°SouthX > 30°InteriorInteriorNonbearing Walls and PartitionsInteriorExterior wallsInteriorNorthX > 30°EastX > 30°KestX > 30°SouthX > 30°Interior wallsInteriorNorthX > 30°EastX > 30°SouthX > 30°Floor ConstructionInterior walls and partitionsFloor ConstructionIncluding supporting beams and joistsFloor Ceiling AssemblyColumns Supporting FloorsRoof Construction, including supporting beams and joistsRoof Ceiling AssemblyColumns Supporting RoofIncluding Supporting Roof	Ohr Ohr Ohr Ohr Ohr Ohr Ohr Ohr Ohr					
WestX > 30°SouthX > 30°InteriorInteriorNonbearing Walls and PartitionsImage: SouthExterior wallsImage: SouthNorthX > 30°EastX > 30°WestX > 30°SouthX > 30°Interior walls and partitionsImage: SouthFloor Construction Including supporting beams and joistsImage: SouthFloor Ceiling AssemblyColumns Supporting FloorsRoof Construction, including supporting beams and joistsImage: SouthRoof Ceiling AssemblyColumns Supporting Roof	Ohr Ohr Ohr Ohr Ohr Ohr Ohr Ohr Ohr					
South $X > 30^\circ$ InteriorNonbearing Walls and PartitionsExterior wallsExterior wallsNorth $X > 30^\circ$ East $X > 30^\circ$ West $X > 30^\circ$ South $X > 30^\circ$ Interior walls and partitionsFloor Construction Including supporting beams and joistsFloor Ceiling AssemblyColumns Supporting FloorsRoof Construction, including supporting beams and joistsRoof Ceiling AssemblyColumns Supporting Roof	Ohr Ohr Ohr Ohr Ohr Ohr Ohr					
Interior Interior Nonbearing Walls and Partitions Partitions Exterior walls Interior walls North X > 30° East X > 30° West X > 30° South X > 30° Floor Construction 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 Interior	Ohr Ohr Ohr Ohr Ohr Ohr					
Nonbearing Walls and Partitions X Exterior walls X North X East X West X South X Interior walls and partitions Image: 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	Ohr Ohr Ohr Ohr Ohr					
North X > 30° East X > 30° West X > 30° South X > 30° Interior walls and partitions 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 Columns Supporting Roof	Ohr Ohr Ohr Ohr					
East X > 30° West X > 30° South X > 30° Interior walls and partitions 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 Floors Roof Ceiling Assembly Columns Supporting Roof Columns Supporting Roof	Ohr Ohr Ohr Ohr					
Last X > 30° West X > 30° South X > 30° Interior walls and partitions Interior walls and partitions Floor Construction Including supporting beams and joists Including supporting beams Floor Ceiling Assembly Columns Supporting Floors Roof Construction, including supporting beams and joists Roof Ceiling Assembly Columns Supporting Roof Columns Supporting Roof	Ohr Ohr Ohr					
West X > 30° South X > 30° Interior walls and partitions 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 Supporting Supporting Boors Columns Supporting Roof	0hr 0hr					
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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						
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	0hr					
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Floor Ceiling Assembly Columns Supporting Floors Roof Construction, including supporting beams and joists Roof Ceiling Assembly Columns Supporting Roof						
Columns Supporting Floors Roof Construction, including supporting beams and joists Roof Ceiling Assembly Columns Supporting Roof						
Roof Construction, including supporting beams and joists Roof Ceiling Assembly Columns Supporting Roof	0hr					
Supporting beams and joists Roof Ceiling Assembly Columns Supporting Roof	0hr					
Columns Supporting Roof	0hr					
Commus Supporting Roon	0hr					
Shaft Enclosures - Exit	0hr					
	N/A					
	N/A					
Corridor Separation	0hr					
Occupancy/Fire Barrier Separation	1hr	lhr	G2.0	Ų937	M0.1	G2.0
Party/Fire Wall Separation	N/A					
Smoke Barrier Separation	N/A					
Smoke Partition	N/A					
Sleeping Unit Separation	N/A					
Incidental Use Separation	N/A					
Indicate section number permitting reduction						

PERCENTAGE OF WALL OPENING CALCULATIONS		
FORE SEPARATION DISTANCE DEGREE OF OPENINGS ALLOWABLE AREA ACTUAL SHOWN ON PLANS	2018 APPENDIX B	
(FEET) FROM PROPERTY LINES PROTECTION (%) (%) (TABLE 705.8)	BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS STRUCTURAL DESIGN	
X > 30' Unprotected No Limit	(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE) DESIGN LOADS:	
	Importance Factors: Snow (Is) <u>1.1</u>	
	Seismic (I_E) <u>1.25</u>	
LIFE SAFETY SYSTEM REQUIREMENTS	Live Loads: Roof <u>20 psf</u> Mezzanine <u>100 psf</u>	
Emergency Lighting: Yes	Floor <u>81 psf</u>	
Exit Signs: Yes Fire Alarm: Yes Smoke Detection Systems: Yes	Ground Snow Load: <u>10 psf</u>	
Smoke Detection Systems:YesCarbon Monoxide Detection:Yes	Wind Load:Ultimate Wind Speed 156 mph (ASCE-7)Exposure CategoryC	
LIFE SAFETY PLAN REQUIREMENTS .ife Safety Plan Sheet #: <u>G2.1</u>	SEISMIC DESIGN CATEGORY: <u>B</u> Provide the following Seismic Design Parameters:	
Fire and/or smoke rated wall locations (Chapter 7)	Risk Category (Table 1604.5)IIISpectral Response AccelerationSs 18.8 %gS1 7.8 %g	
 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) 	Site Classification (ASCE 7) D	
Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)	Data Source: <u>Field Test</u> Basic structural system <u>Building Frame</u>	
 Occupant loads for each area Exit access travel distances (1017) 	Analysis Procedure: <u>Equivalent Lateral Force</u> Architectural, Mechanical, Components anchored? <u>No</u>	
 Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1)) Dead end lengths (1020.4) 	LATERAL DESIGN CONTROL: Wind	
 Clear exit widths for each exit door Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3) 	SOIL BEARING CAPACITIES:	
Actual occupant load for each exit door	<u>Field Test (provide copy of test report)</u> 1500 psf Pile size, type, and capacity <u>NR</u>	
A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation		
 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) Location of doors equipped with hold-open devices 	2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS	
Location of emergency escape windows (1030)	MECHANICAL DESIGN	
 The square footage of each fire area (202) The square footage of each smoke compartment for Occupancy Classification I-2 (407.5) 	(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)	
 Note any code exceptions or table notes that may have been utilized regarding the items above 	MECHANICAL SUSTEMS SERVICE SUSTEMS AND FOURMENT	
	MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT	
ACCESSIBLE DWELLING UNITS (SECTION 1107)	Thermal Zone 3A winter dry bulb: 24.7 F	
TOTAL ACCESSIBLE ACCESSIBLE TYPE A TYPE A TYPE B TYPE B TOTAL	summer dry bulb: 91.4 F DB / 77.0 F WB	
UNITS UNITS UNITS UNITS UNITS UNITS UNITS UNITS ACCESSIBLE UNITS REQUIRED PROVIDED REQUIRED PROVIDED REQUIRED PROVIDED PROVIDED	Interior design conditions winter dry bulb: 70 F	
	summer dry bulb: 75 F relative humidity: 55%	
A-NOT PROVIDED	Building heating load: 1,881.7 MBH	
ACCESSIBLE PARKING (SECTION 1106)	Building cooling load: 66.9 Tons	
LOT OR PARKING TOTAL # OF PARKING SPACES # OF ACCESSIBLE SPACES PROVIDED TOTAL #	Mechanical Spacing Conditioning System	
AREA REQUIRED PROVIDED REGULAR WITH VAN SPACES WITH ACCESSIBLE 5' ACCESS AISLE 132" ACCESS 8' ACCESS PROVIDED	Unitary – See Schedules on Sheet M4.0	
A 130 130 4 0 1 5	description of unit: heating efficiency:	
TOTAL 130 130 4 0 1 5	cooling efficiency: size category of unit:	
	Boiler N/A Size category. If oversized, state reason.:	
PLUMBING FIXTURE REQUIREMENTS	Chiller N/A Size category. If oversized, state reason.:	
(TABLE 2902.1)	List equipment efficiencies: See Schedules on Sheet M4.0	
USE WATERCLOSETS URINALS LAVATORIES SHOWERS DRINKING FOUNTAINS MALE FEMALE UNISEX MALE FEMALE UNISEX /TUBS REGULAR ACCESSIBLE		
PACE EXIST'G	2018 APPENDIX B	
	2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS	
NEW 3 6 2 3 4 4 2 9		
NEW 3 6 2 3 4 4 2 9	BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN	
NEW 3 6 2 3 4 4 2 9 REQ'D 3 6 0 3 4 4 0 0 3 3 SPECIAL APPROVALS ecial approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)	BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)	
NEW 3 6 2 3 4 4 2 9 REQ'D 3 6 0 3 4 4 0 0 3 3 SPECIAL APPROVALS ecial approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below) C State Construction Office	BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE) ELECTRICAL SUMMARY	
NEW 3 6 2 3 4 4 2 9	BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE) ELECTRICAL SUMMARY ELECTRICAL SYSTEM AND EQUIPMENT	
NEW 3 6 2 3 4 4 2 9 REQ'D 3 6 0 3 4 4 0 0 3 3 SPECIAL APPROVALS ecial approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below) C State Construction Office	BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE) ELECTRICAL SUMMARY ELECTRICAL SYSTEM AND EQUIPMENT Method of Compliance: <u>N/A</u>	
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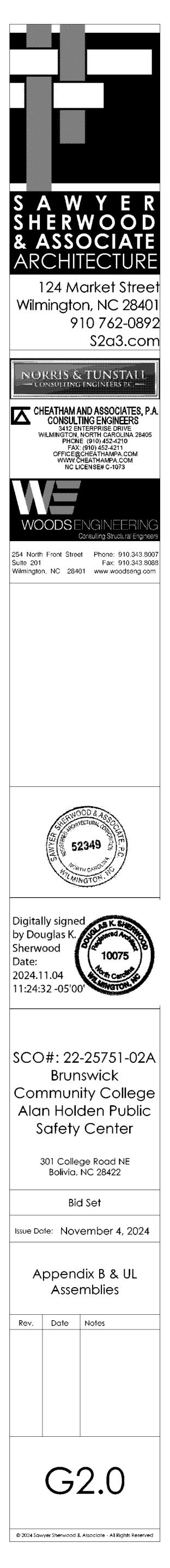
PERCENTAGE OF WALL OPENING CALCULATIONS		
FIRE SEPARATION DISTANCE DEGREE OF OPENINGS ALLOWABLE AREA ACTUAL SHOWN ON PLANS	2018 APPENDIX B	
(FEET) FROM PROPERTY LINES PROTECTION (%) (%) (TABLE 705.8)	BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS STRUCTURAL DESIGN	
X > 30' Unprotected No Limit	(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)	
	DESIGN LOADS:	
	Importance Factors:Snow (I_S) $\underline{1.1}$ Seismic (I_E) $\underline{1.25}$	
LIFE SAFETY SYSTEM REQUIREMENTS	Live Loads: Roof <u>20 psf</u> Mezzanine <u>100 psf</u>	
Emergency Lighting: Yes	Floor <u>81 psf</u>	
Exit Signs: Yes Fire Alarm: Yes	Ground Snow Load: <u>10 psf</u>	
Smoke Detection Systems: Yes Carbon Monoxide Detection: Yes	Wind Load: Ultimate Wind Speed 156 mph (ASCE-7)	
	Exposure Category <u>C</u>	
LIFE SAFETY PLAN REQUIREMENTS	SEISMIC DESIGN CATEGORY: <u>B</u>	
Life Safety Plan Sheet #: <u>G2.1</u>	Provide the following Seismic Design Parameters:	
Fire and/or smoke rated wall locations (Chapter 7)	Risk Category (Table 1604.5)IIISpectral Response AccelerationSs 18.8 %gSt 7.8 %g	
 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) 	Site Classification (ASCE 7) D	
 Exterior wan opening area with respect to distance to assumed property lines (105.0) Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2) 	Data Source: <u>Field Test</u> Basic structural system <u>Building Frame</u>	
 Occupant loads for each area Exit access travel distances (1017) 	Analysis Procedure: Equivalent Lateral Force	
 Exit access travel distances (1017) Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1)) 	Architectural, Mechanical, Components anchored? <u>No</u>	
 Dead end lengths (1020.4) Clear exit widths for each exit door 	LATERAL DESIGN CONTROL: Wind	
 Clear exit widths for each exit door Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3) 	SOIL BEARING CAPACITIES: Field Test (provide copy of test report) 1500 psf	
 Actual occupant load for each exit door A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for 	Pile size, type, and capacity <u>NR</u>	
purposes of occupancy separation		
 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)	2018 APPENDIX B	
 Location of doors equipped with hold-open devices Location of emergency escape windows (1030) 	BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS MECHANICAL DESIGN	
\boxtimes The square footage of each fire area (202)	(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)	
 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 	MECHANICAL SUMMARY	
	MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT	
ACCESSIBLE DWELLING UNITS	Thermal Zone 3A	
(SECTION 1107)	winter dry bulb: 24.7 F	
TOTAL ACCESSIBLE ACCESSIBLE TYPE A TYPE A TYPE B TYPE B TOTAL	summer dry bulb: 91.4 F DB / 77.0 F WB	
UNITS UNITS UNITS UNITS UNITS UNITS UNITS ACCESSIBLE UNITS REQUIRED PROVIDED REQUIRED PROVIDED REQUIRED PROVIDED PROVIDED	Interior design conditions	
	winter dry bulb: 70 F summer dry bulb: 75 F	
N/A-NOT PROVIDED	relative humidity: 55%	
ACCESSIBLE PARKING	Building heating load: 1,881.7 MBH	
(SECTION 1106)	Building cooling load: 66.9 Tons	
LOT OR PARKING TOTAL # OF PARKING SPACES # OF ACCESSIBLE SPACES PROVIDED TOTAL # ACCESSIBLE AREA REQUIRED PROVIDED REGULAR WITH VAN SPACES WITH ACCESSIBLE	Mechanical Spacing Conditioning System	
5' ACCESS AISLE 132" ACCESS 8' ACCESS PROVIDED	Unitary – See Schedules on Sheet M4.0 description of unit:	
A 130 130 4 0 1 5	heating efficiency:	
TOTAL 130 130 4 0 1 5	size category of unit:	
	Boiler N/A Size category. If oversized, state reason.:	
PLUMBING FIXTURE REQUIREMENTS	Chiller N/A Size category. If oversized, state reason.:	
(TABLE 2902.1)	List equipment efficiencies: See Schedules on Sheet M4.0	
USE WATERCLOSETS URINALS LAVATORIES SHOWERS DRINKING FOUNTAINS		
MALE FEMALE UNISEX MALE FEMALE UNISEX /TUBS REGULAR ACCESSIBLE SPACE EXIST'G -		
NEW 3 6 2 3 4 4 2 9	2018 APPENDIX B	
	NULDING CORE CUMPLERY FOR ALL COMMERCIAL BROTHOM	
REQ ² D 3 6 0 3 4 4 0 0 3 3	BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN	
	BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)	
SPECIAL APPROVALS	ELECTRICAL DESIGN	
	ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)	
SPECIAL APPROVALS	ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE) ELECTRICAL SUMMARY ELECTRICAL SYSTEM AND EQUIPMENT	
SPECIAL APPROVALS Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)	ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE) ELECTRICAL SUMMARY ELECTRICAL SYSTEM AND EQUIPMENT Method of Compliance: <u>N/A</u>	
SPECIAL APPROVALS Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below) NC State Construction Office	ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE) ELECTRICAL SUMMARY ELECTRICAL SYSTEM AND EQUIPMENT Method of Compliance: <u>N/A</u> Lighting schedule (each fixture type) See Luminaire Schedule on Drawing E6.1 - lamp type required in fixture	
SPECIAL APPROVALS Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below) NC State Construction Office NC Department of Insurance	ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE) ELECTRICAL SUMMARY ELECTRICAL SYSTEM AND EQUIPMENT Method of Compliance: <u>N/A</u> Lighting schedule (each fixture type) See Luminaire Schedule on Drawing E6.1 - lamp type required in fixture See Luminaire Schedule on Drawing E6.1 - number of lamps in fixture	
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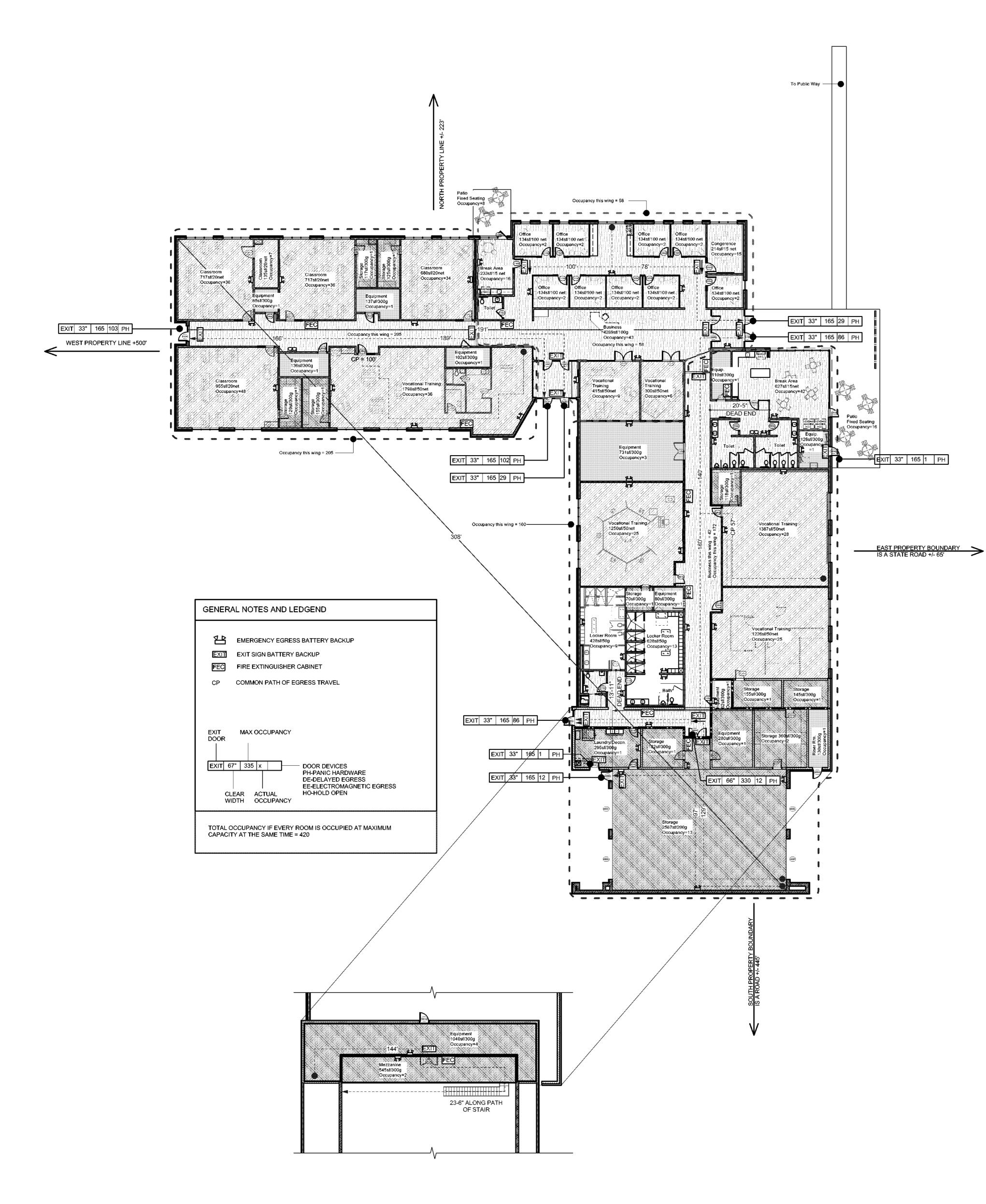
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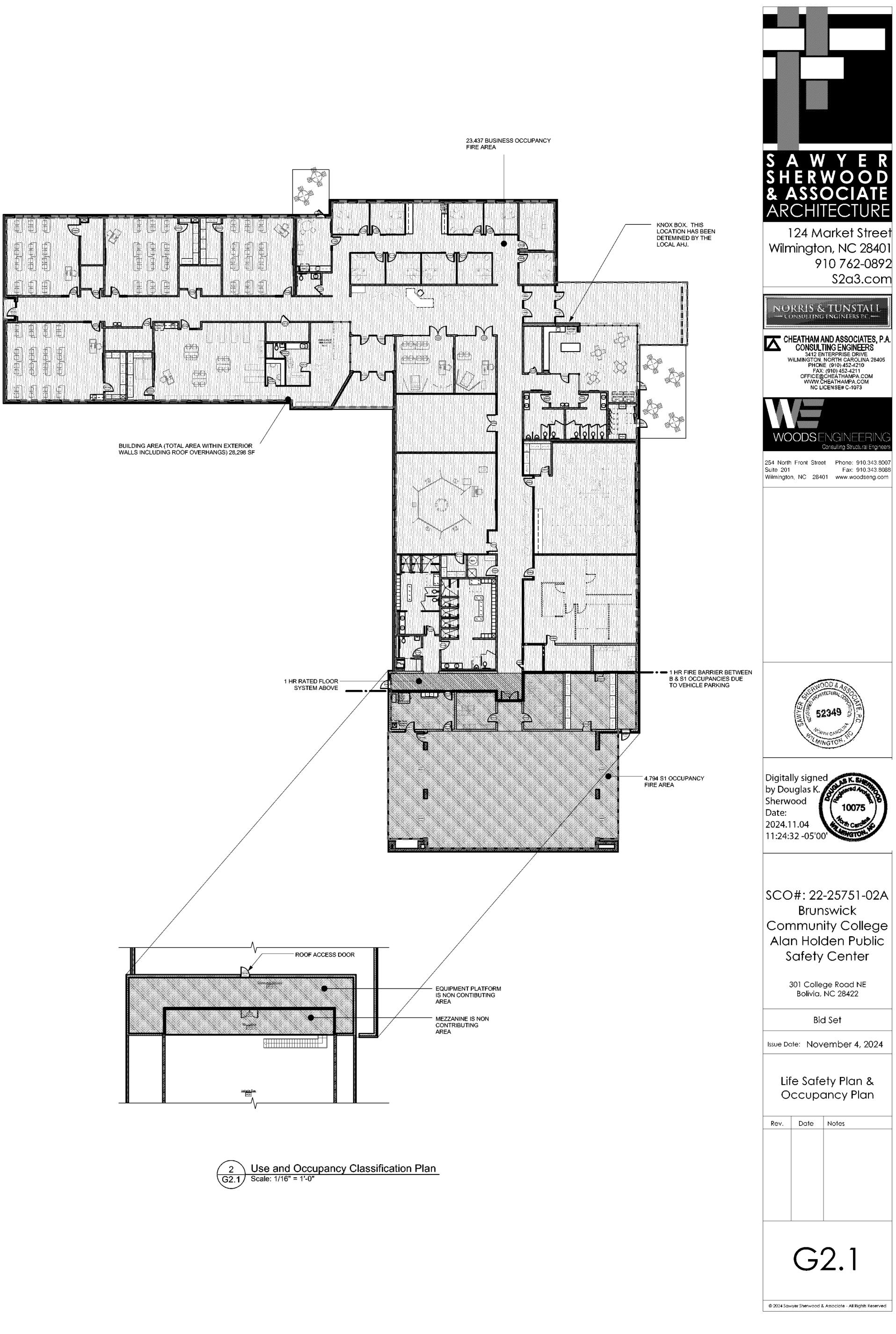
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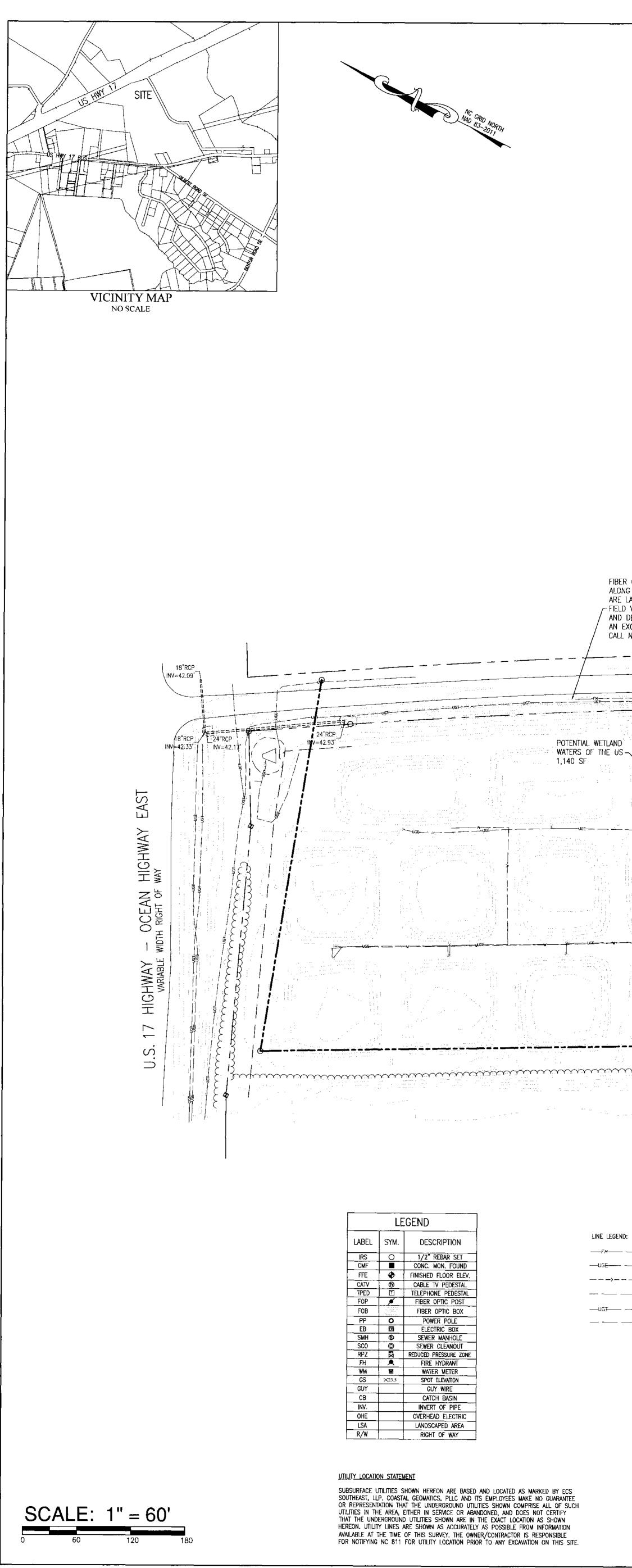




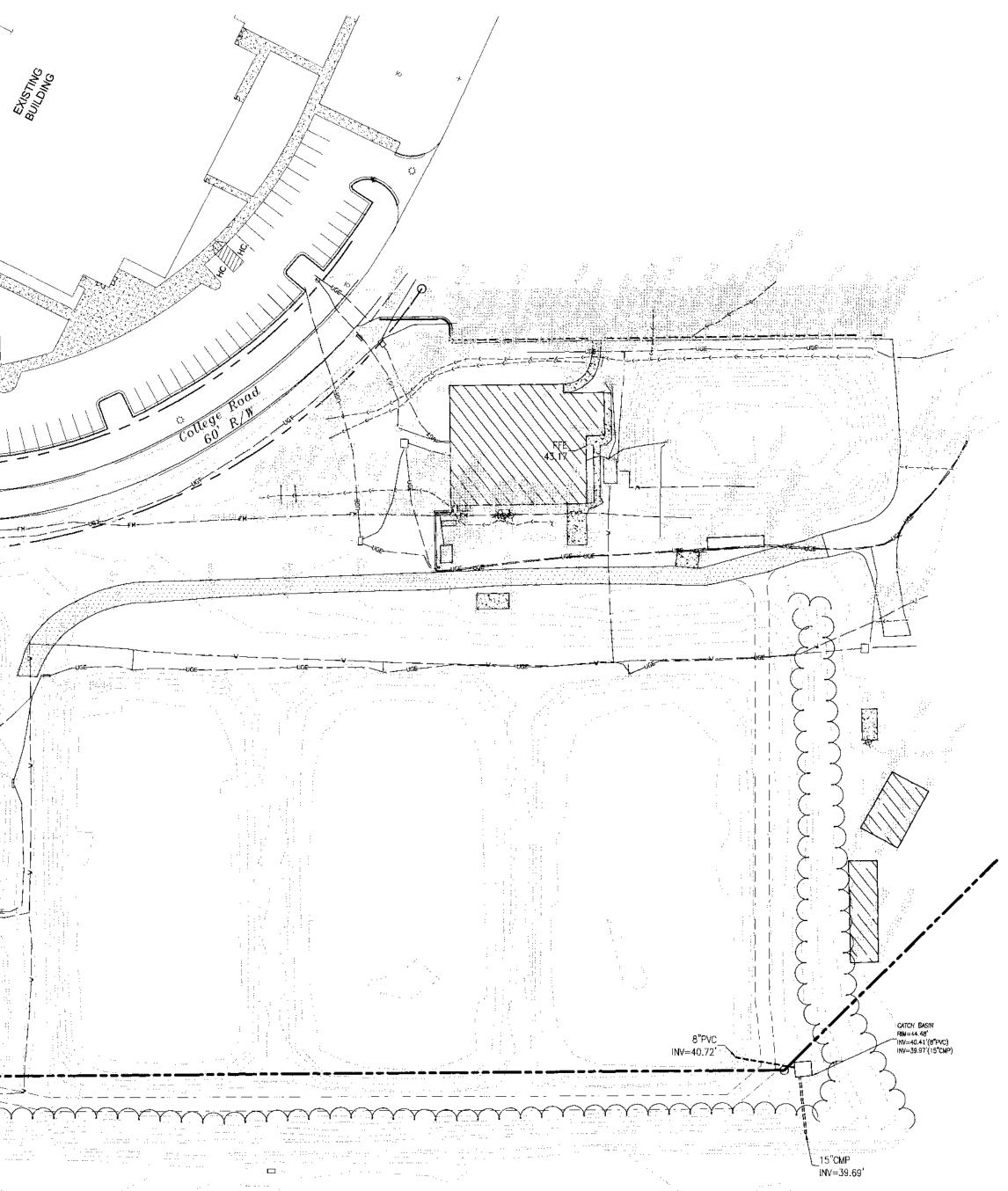
1 Life Safety & Occupant Load Plan G2.1 Scale: 1/16" = 1'-0"





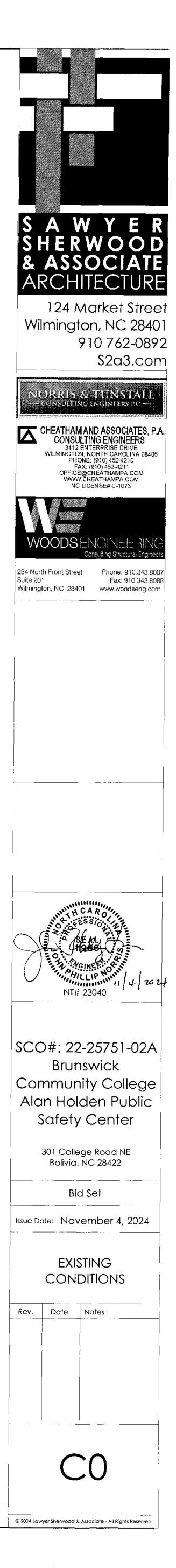


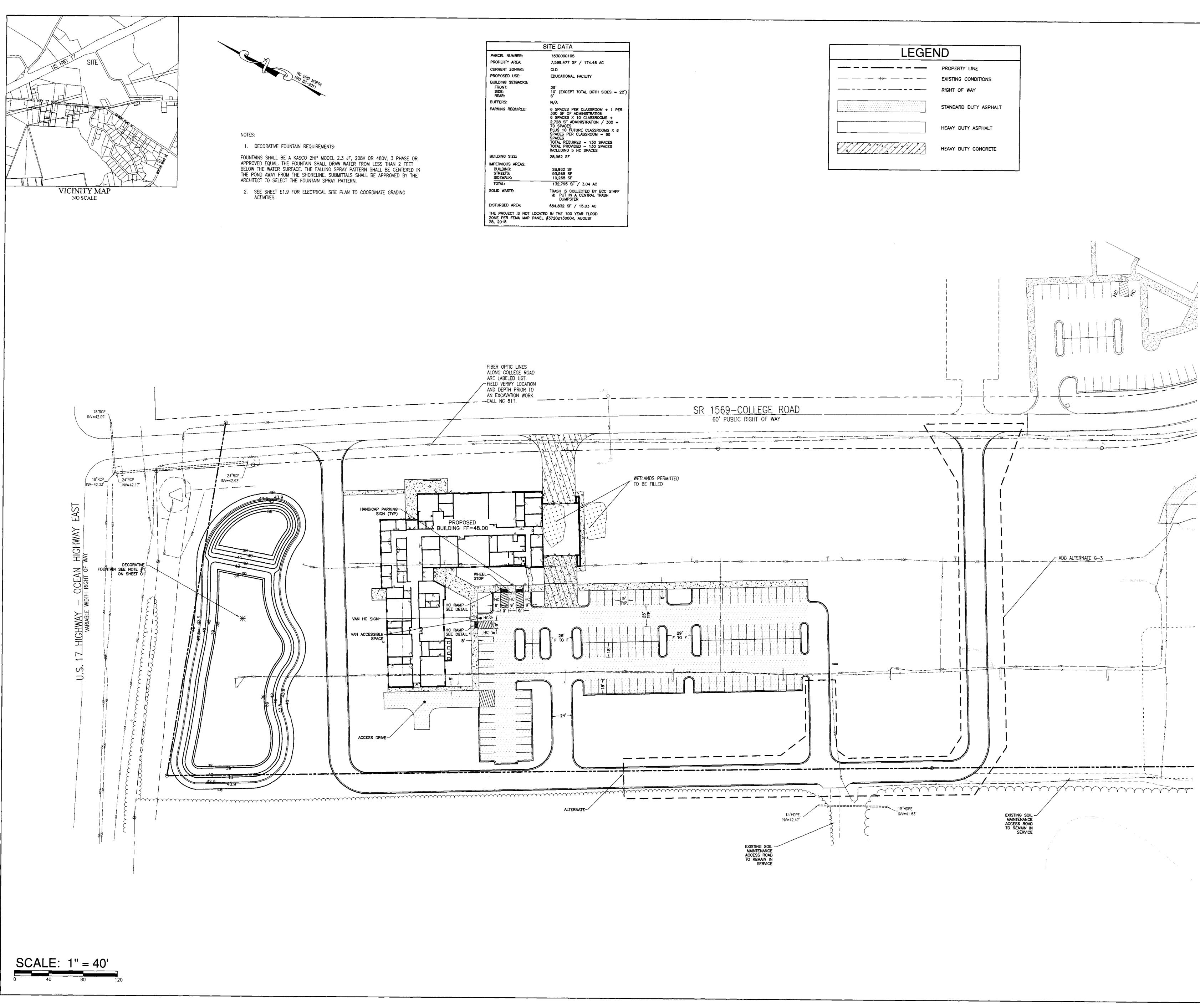
BER OPTIC LINES ONG COLLEGE ROAD RE LABELED UGT. ELD VERIFY LOCATION ID DEPTH PRIOR TO I EXCAVATION WORK. ALL NC 811.	SR 1569-COLLEGE-ROAD	
ID JS	60' PUBLIC RIGHT OF WAY	
	15"HDPE INV=41.63'	

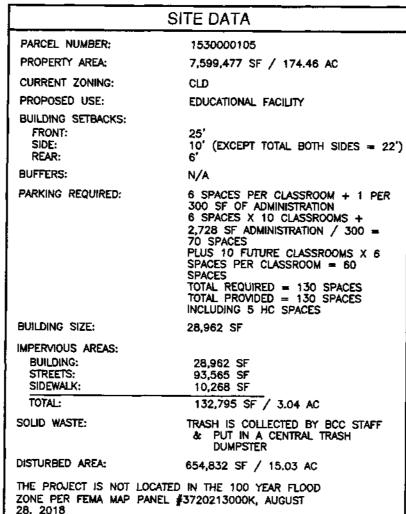


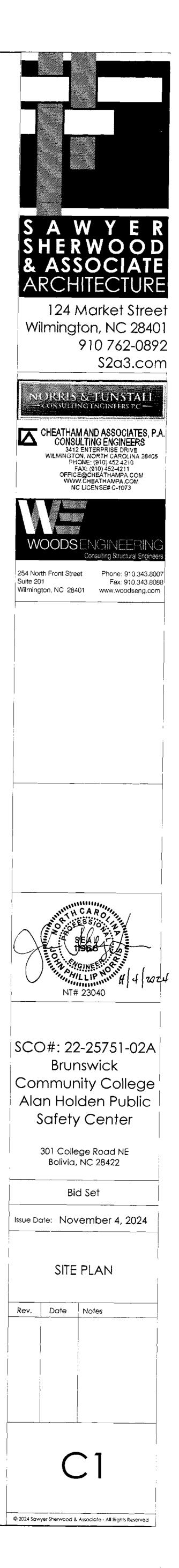
GENERAL NOTES:

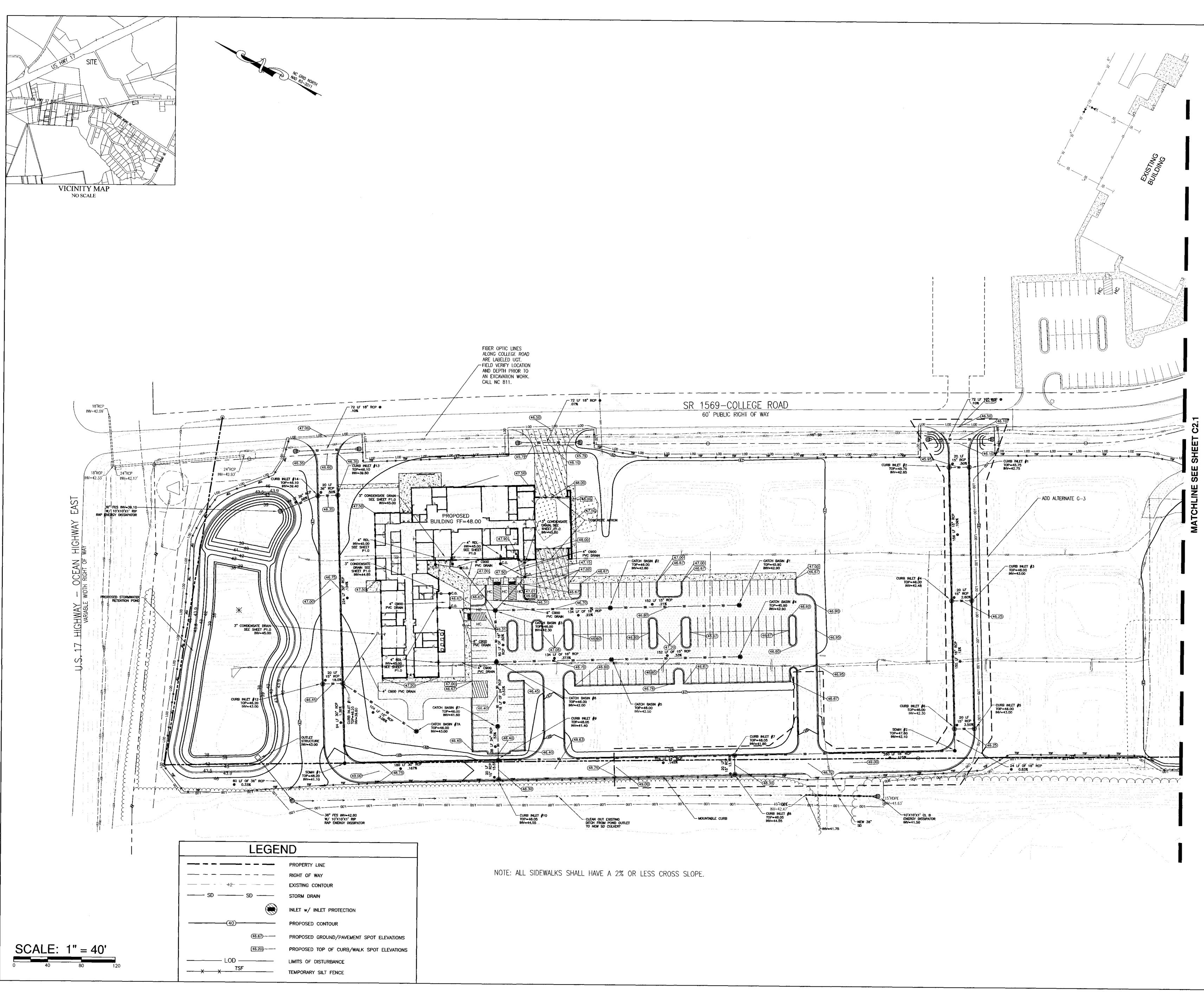
- 1. ADJOINING DEED REFERENCES BASED ON CURRENT INFORMATION FOUND IN THE BRUNSWICK COUNTY TAX OFFICE.
- 2. ACCORDING TO CURRENT FEMA FLOOD MAP # 3720213000K, THE TRACT APPEARS TO BE LOCATED IN THE FOLLOWING ZONE X, AREA OF MINIMAL FLOODING.
- 3. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, COVENANTS, RESTRICTIONS, RIGHT-OF-WAYS OF RECORD, GOVERNMENTAL ORDINANCES AND/OR REQUIREMENTS WHICH MAY LIMIT THE USE OF THIS PROPERTY.
- 4. ALL BEARINGS ARE BASED ON NC GRID NORTH (NAD83-NSRS 2011); ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES. COMBINED GRID FACTOR = 1.00009878
- 5. CURRENT ZONING: BRUNSWICK COUNTY: CLD 6. ELEVATIONS WERE OBTAINED BY NORTH CAROLINA REAL TIME NETWORK AND ARE BASED ON
- N.A.V.D. 88 DATUM. 7. CONTOURS SHOWN AT ONE FOOT INTERVALS,
- 8. THE SURVEY AREA SHOWN IS A PORTION OF TAX PARCEL 1530000105.

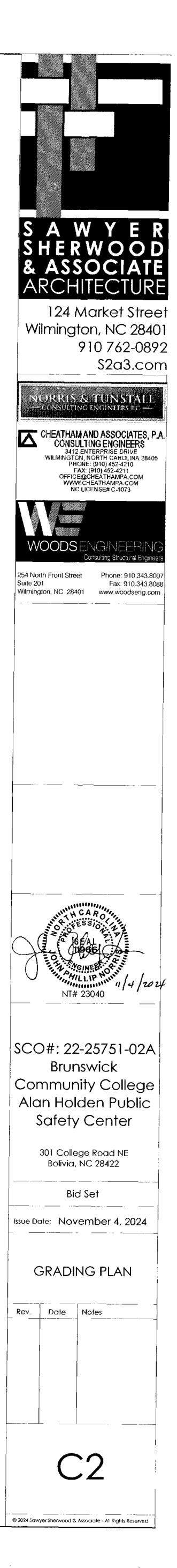


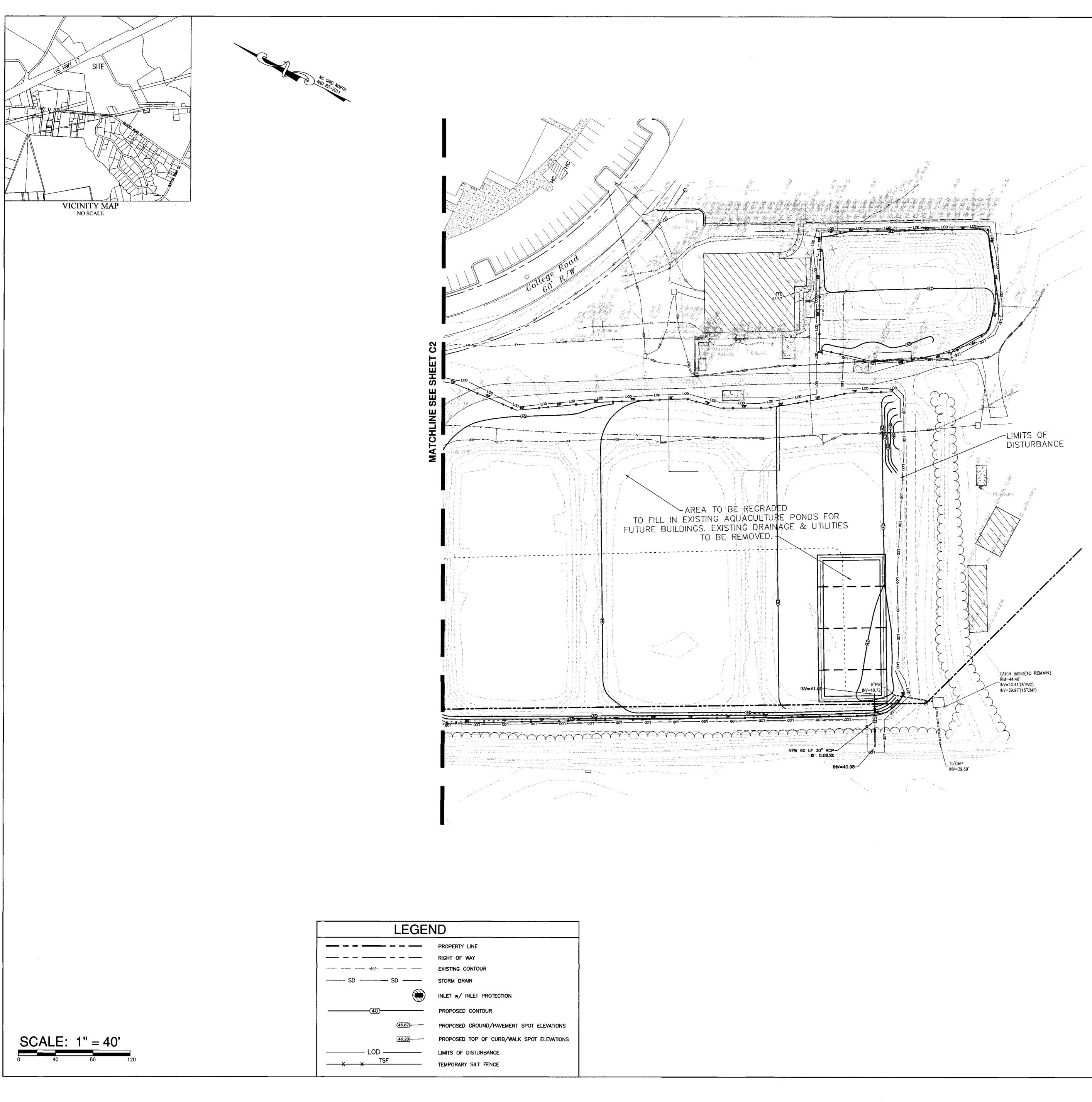




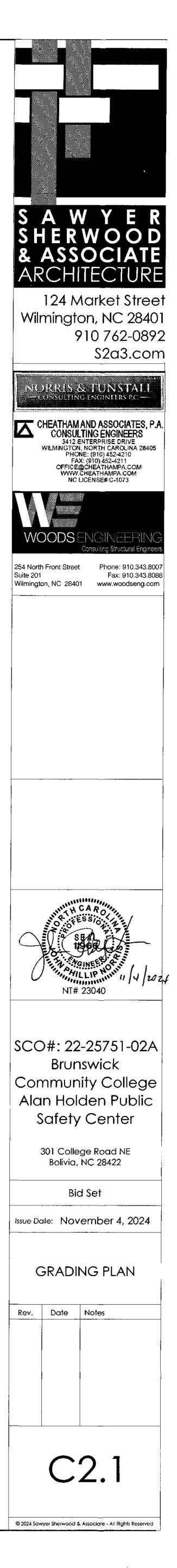


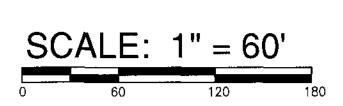






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UTILITY LOCATION STATEMENT SUBSURFACE UTILITIES SHOWN HEREON ARE BASED AND LOCATED AS MARKED BY ECS SOUTHEAST, LLP. COASTAL GEOMATICS, PLLC AND ITS EMPLOYEES MAKE NO GUARANTEE OR REPRESENTATION THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL OF SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED, AND DOES NOT CERTIFY THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION AS SHOWN HEREON. UTILITY LINES ARE SHOWN AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE AT THE TIME OF THIS SURVEY. THE OWNER/CONTRACTOR IS RESPONSIBLE FOR NOTIFYING NO 811 FOR UTILITY LOCATION PRIOR TO ANY EXCAVATION ON THIS SITE.

5.	CURRENT ZONING: BRUNSWICK COUNTY: CLD
6.	ELEVATIONS WERE OBTAINED BY NORTH CAROLINA REAL TIME NETWORK AND ARE BASED ON N.A.Y.D. 88 DATUM.

8. THE SURVEY AREA SHOWN IS A PORTION OF TAX PARCEL 1530000105.

HORIZONTAL GROUND DISTANCES. COMBINED GRID FACTOR = 1.00009878 5 CURRENT ZONING: BRUNSWICK COUNTY: CLD

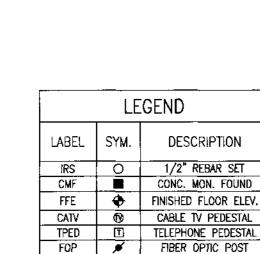
7. CONTOURS SHOWN AT ONE FOOT INTERVALS.

- ALL BEARINGS ARE BASED ON NC GRID NORTH (NAD83-NSRS 2011); ALL DISTANCES ARE
- RIGHT-OF-WAYS OF RECORD, GOVERNMENTAL ORDINANCES AND/OR REQUIREMENTS WHICH MAY LIMIT THE USE OF THIS PROPERTY.

EAST

- ACCORDING TO CURRENT FEMA FLOOD MAP # 3720213000K, THE TRACT APPEARS TO BE LOCATED IN THE FOLLOWING ZONE X, AREA OF MINIMAL FLOODING. 3. THIS PROPERTY IS SUBJECT TO ANY AND ALL EASEMENTS, COVENANTS, RESTRICTIONS,
- ADJOINING DEED REFERENCES BASED ON CURRENT INFORMATION FOUND IN THE BRUNSWICK COUNTY TAX OFFICE.

- GENERAL NOTES:



FOB

SCO RPZ

СB

INV.

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PP O EB 國

SMH (S)

WM BE

FIBER OPTIC BOX

POWER POLE

SEWER MANHOLE

REDUCED PRESSURE ZONE FIRE HYDRANT

WATER METER

GUY WIRE

CATCH BASIN

INVERT OF PIPE

OVERHEAD ELECTRIC

LANDSCAPED AREA

RIGHT OF WAY

SEWER CLEANOUT

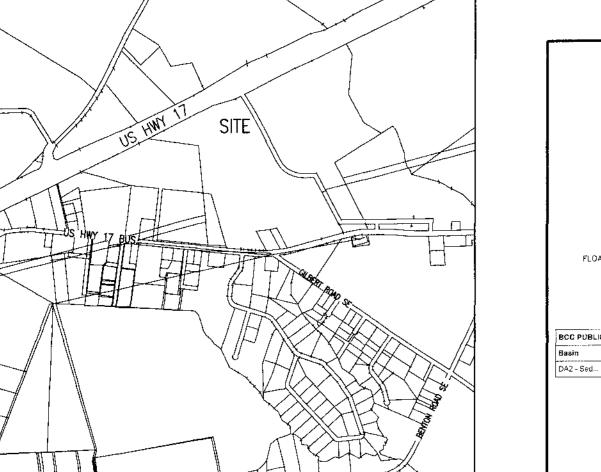
S ×23.5 SPOT ELEVATION

ELECTRIC BOX

LINE LEGEND: ------F M --------____>___ _____

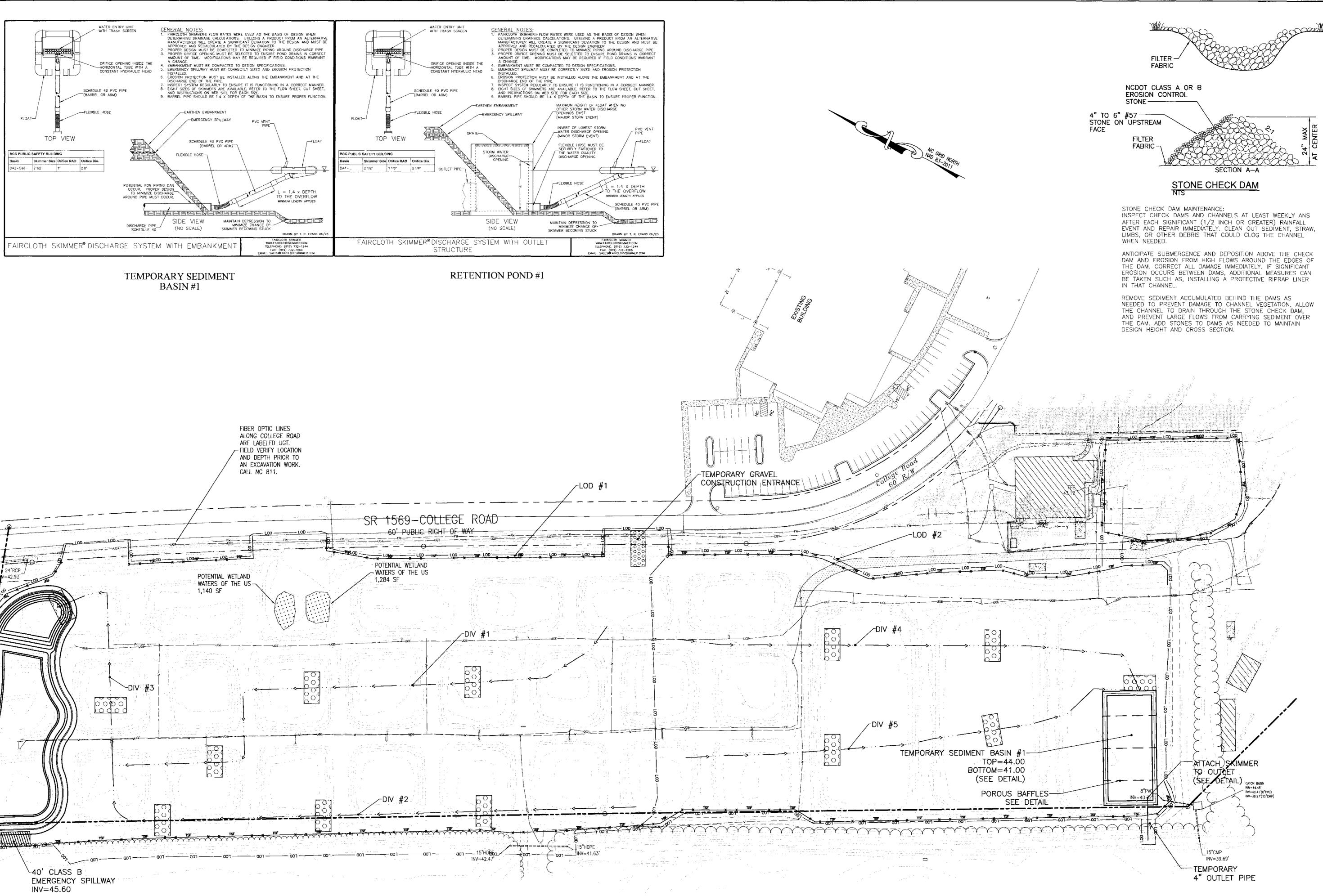
(18"RCP_ (INV=42.09' 24"RCP 18"RCP 24"RCP INV=42.33 NV=42.17 1,140 SF OCEAN HIGHWAY 1 RICHT OF WAY `~DIV #3 $-\overline{\sigma}\overline{\sigma}\overline{\sigma}\overline{\sigma}$ HIGHWAY 17 ഗ് ⇒ -40' CLASS B EMERGENCY SPILLWAY

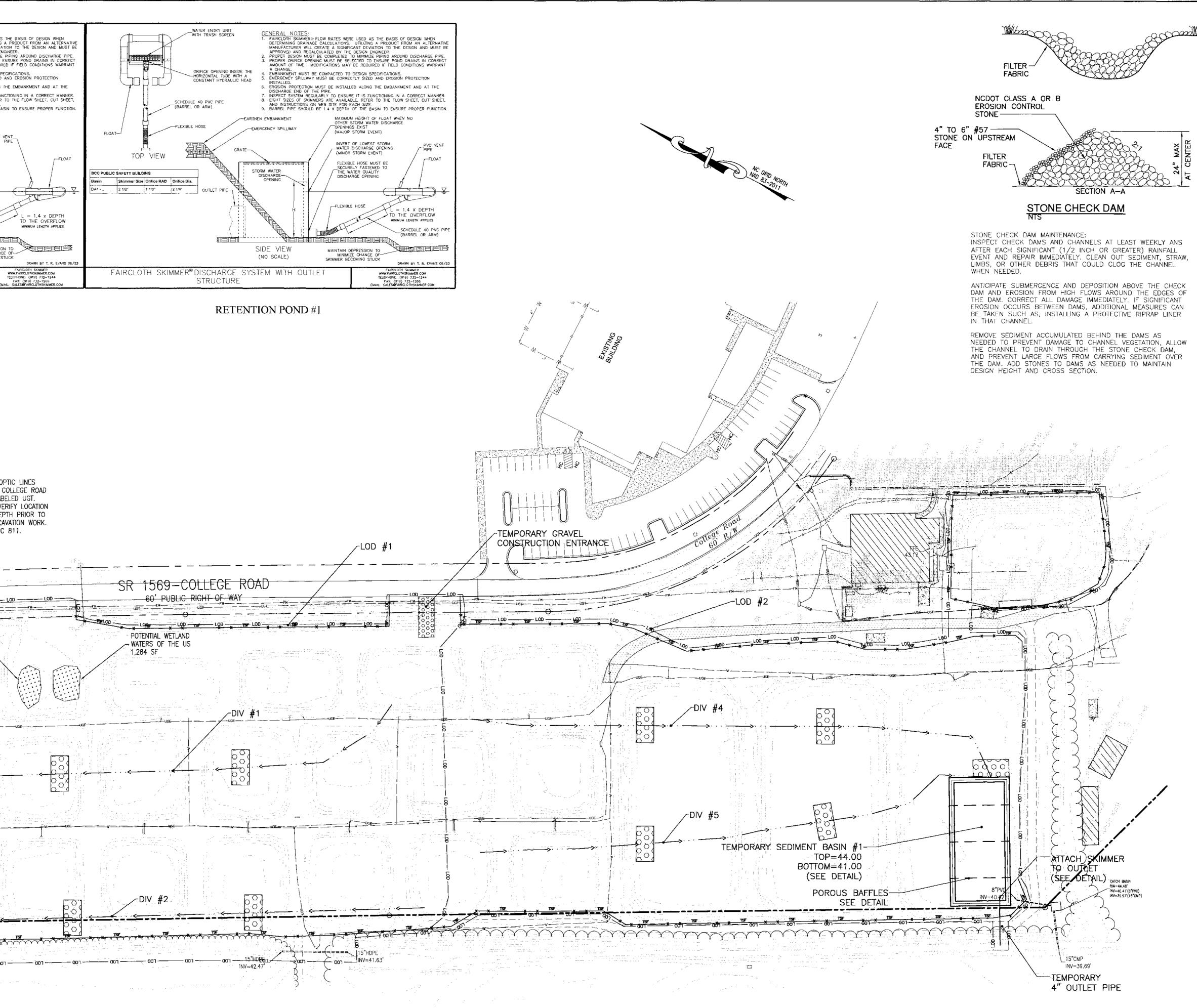
BASIN #1



VICINITY MAP

NO SCALE

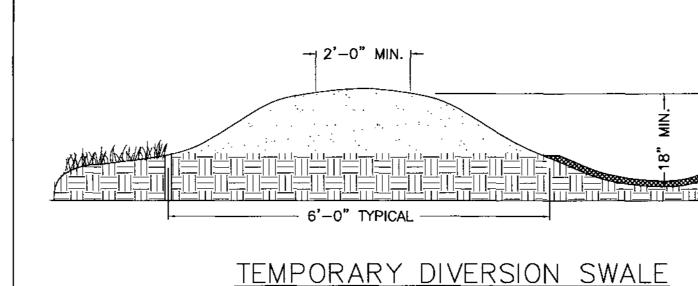




LINE LEGEND:	
FM	SANITARY SEWER FORCE MAIN
	UNDERGROUND ELECTRIC LINE
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— — — -f0 —	UNDERGROUND FIBER OPTIC
UGT	UNDERGROUND TELEPHONE/CABLE/INTER
	UNDERGROUND WATER LINE

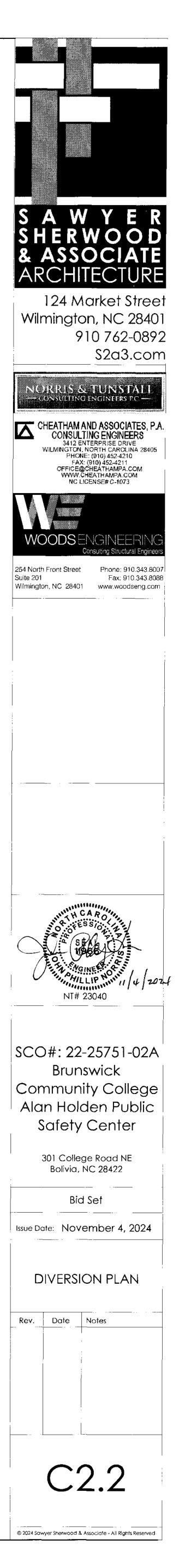
CONSTRUCTION SEQUENCE:

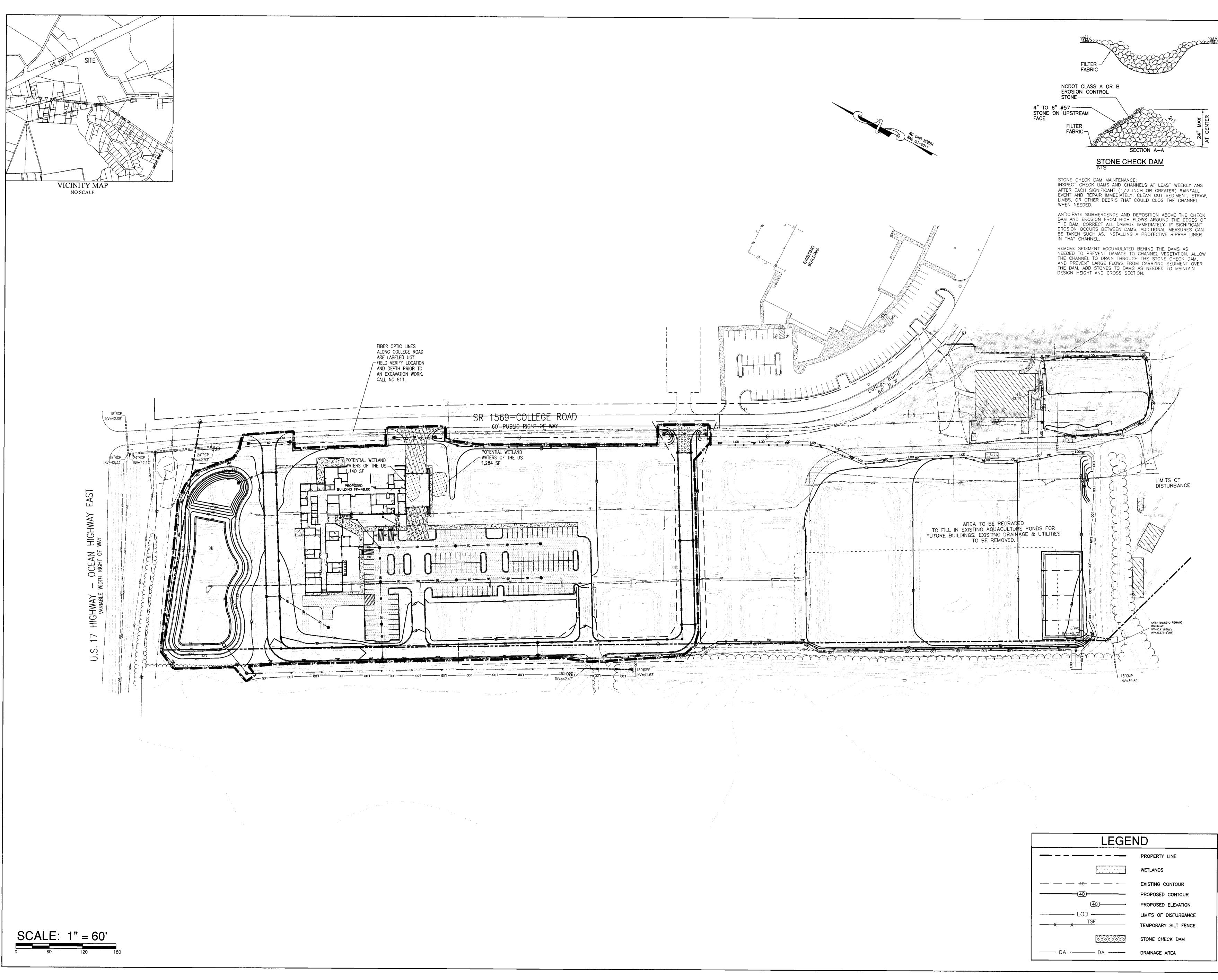
- 1. SCHEDULE PRE-CONSTRUCTION MEETING WITH DEQ-DEMLR WILMINGTON REGIONAL OFFICE UPON THE COMMENCEMENT OF AND DISTURBING ACTIVITIES ON THE SITE.
- 2. INSTALL GRAVEL CONSTRUCTION ENTRANCE
- 3. INSTALL TEMPORARY SILT FENCE IF REQUIRED 4. BEGIN CLEARING & GRUBBING
- 5. EXCAVATE DIVERSION DITCHES TO CHANNEL FLOW TO SEDIMENT BASIN
- 6. CONTINUE CONSTRUCTION 7. STABILIZE & SEED DISTURBED AREAS
- 8. MAINTAIN INLET PROTECTIONS & ALL OTHER ASPECTS
- MENTIONED IN APPROVED SEDIMENTATION & EROSION
- CONTROL PERMIT 9. REMOVE, REGRADE AND STABILIZE/GRASS ALL TEMPORARY DIVERSION
- SWALES AND TEMPORARY SEDIMENT BASINS

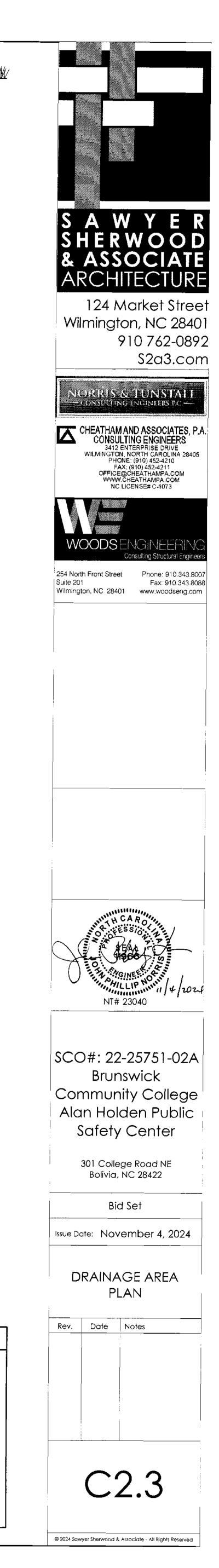


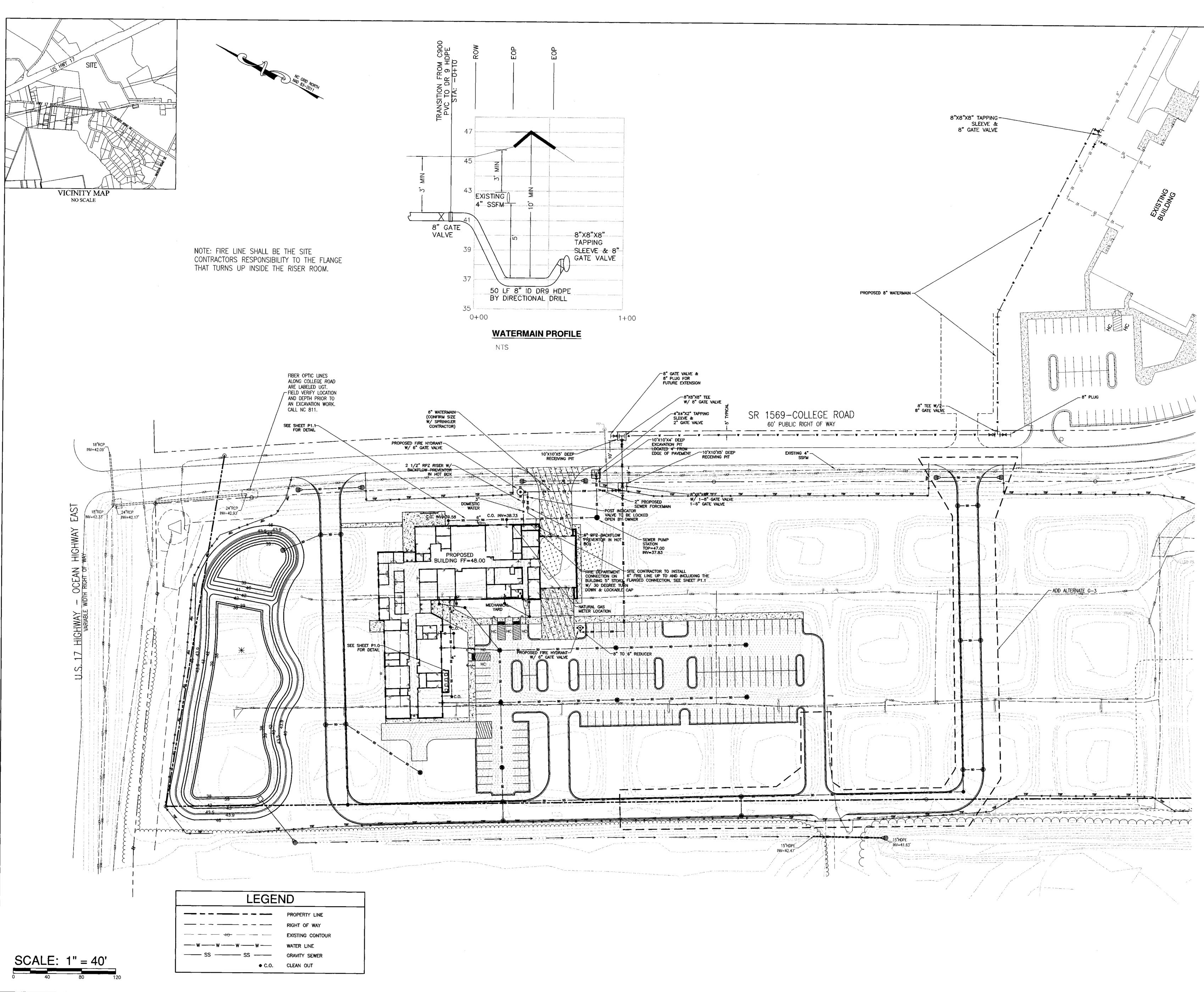
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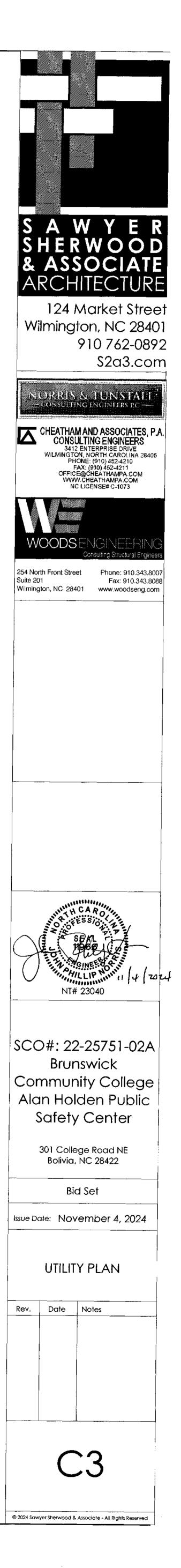
		LEGEI	ND
			PROPERTY LINE
FLOW			WETLANDS
		···· 40	EXISTING CONTOUR
			PROPOSED CONTOUR
		(40)	PROPOSED ELEVATION
SINGLE FIBERGLASS		LOD	LIMITS OF DISTURBANCE
ROVING CHANNEL LINER		— X — X — TSF	TEMPORARY SILT FENCE
		00000000	STONE CHECK DAM
]		

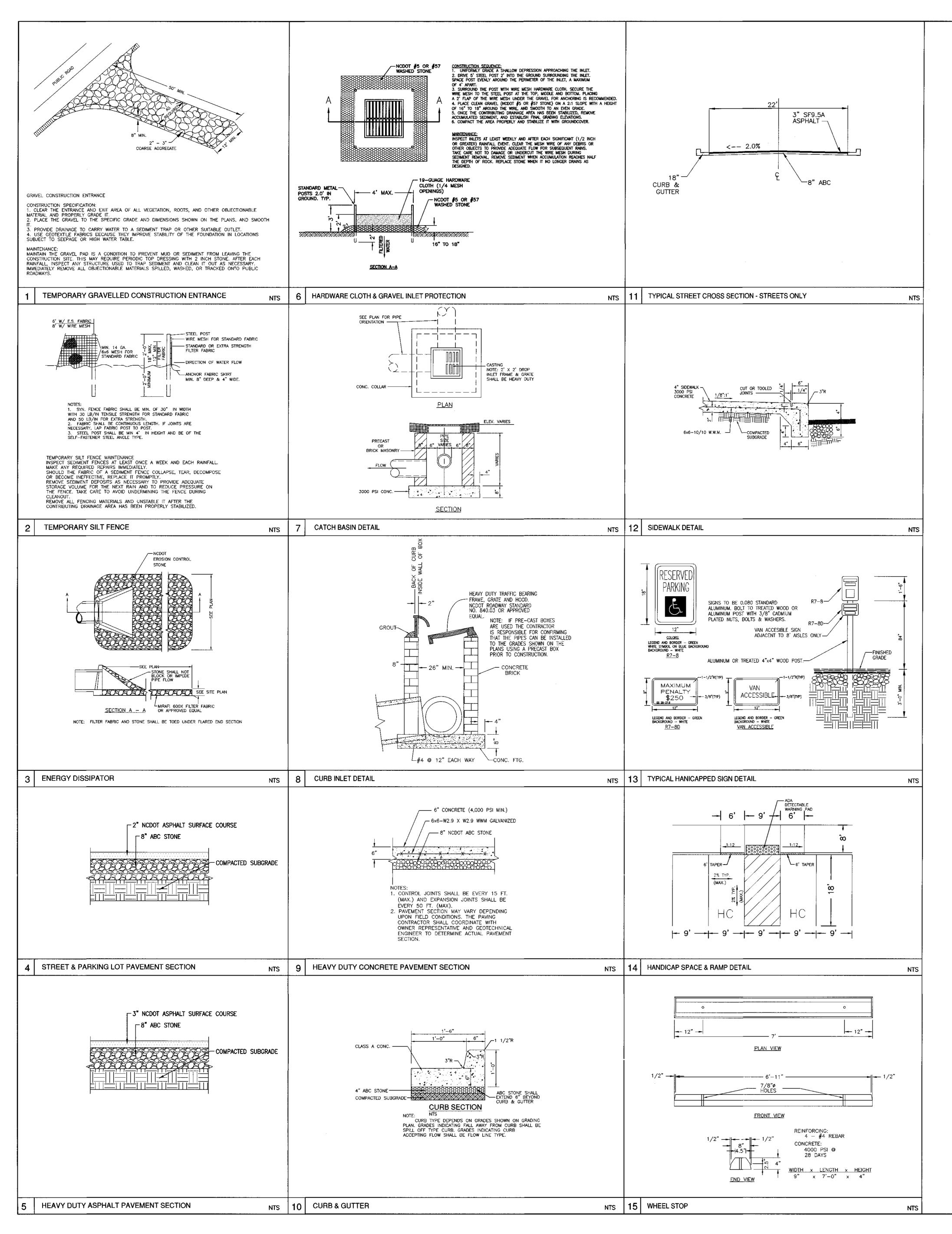












SITE AREA D PERIMETER DIKES, SWALES, HIGH QUALITY WATER (HQW SLOPES STEEPER THAN 3:1 SLOPES 3:1 OR FLATTER

ALL OTHER AREAS WITH S

			MPORARY/PERMANENT GRASS SPECIFICATION
			
	ADVERS	SE SOIL CONDITI	
	2. RIP THE ENTIRE AREA TO A 6 INCH DEPTH. 3. REMOVE ALL ROCKS, ROOTS AND OTHER OBSTRUCTIONS LEAVING SURFACES		
	4. APPLY		JME AND FERTILIZER UNIFORMLY AND MIX WITH SOIL.
	Pł		R 1000 S.F. 0 LBS PER 1000 S.F. 35. PER 1000 S.F.
	5. CONTIN		IL A WELL PULVERIZED, FIRM, UNIFORM SEED BED IS
	6. SEED C	IN A FRESHLY F	PREPARED SEED BED AND COVER SEED LIGHTLY. 1000 S.F. (SEE MIXTURE BELOW)
	7. MULCH	IMMEDIATELY AF	TER SEEDING AND ANCHOR MULCH. HAY AT 75 TO 100 LBS PER 1000 S.F.
	W	OOD CHIPS AT	500 LBS. PER 1000 S.F. PER MANUFACTURER
	8. ASPHAL APPLIEI	T FOR ANCHORI	NG MULCH SHALL BE TYPE SS-1 EMULSION AND 7 1000 GAL. PER ACRE FOR SLOPE STABILIZATION,
	9. INSPEC	T ALL SEEDED A	N OF STRAW FOR ANCHORING STRAW. AREAS AND MAKE NECESSARY REPAIRS OR RESEED
	OVER 6	0% DAMAGED, F	SEASON, IF POSSIBLE. IF GRASS STAND SHOULD BE REESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER
	10. CONSUL		N INSPECTOR ON MAINTENANCE, TREATMENT, AND
	11. SEED F	OR TEMPORARY	ERMANENT COVER IS ESTABLISHED. AND PERMANENT APPLICATIONS SHALL BE:
	24	0% CARPET GRAM 1% BERMUDA GR	ASS
	24	1% ANNUAL RYE	E 10% CREEPING RED FESCUE GRAIN BE HULLED FOR WARM WEATHER
	PLANTIN	IG. PURITY OF S	SEED SHALL BE A MIN. OF 98% AND A MIN. OF 85%.
			BE SEEDED WITHIN 7 TO 14 DAYS OF THE COMPLETION
	OF GRADING.	CONSULT CON	SERVATION ENGINEER OR SOIL CONSERVATION SERVICE N CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF
	DENUDED AR	EAS. THE ABO	VE VEGETATION RATES ARE THOSE WHICH DO WELL OTHER SEEDING SCHEDULES MAY BE POSSIBLE.
	NPDES ST		TIMEFRAMES
DESCR	IPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
s, dito	HES AND SLOPES	7 DAYS	NONE
₩) ZOI	NES	7 DAYS	NONE IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT
:1		7 DAYS	STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
OPES	FLATTER THAN 4:1	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
	[
	TEMPOH		NG RECOMMENDATIONS FOR SUMMER
	SPECIES	RATE	(lb/acre)
	GERMAN MILLET	4	-0
	IN THE PIEDMON BE SUBSTITUTED		ITAINS, A SMALL-STEMMED SUDANGRASS MAY OF 50 lb/acre.
	SEEDING DATES MOUNTAINS - M	IAY 15 - AU	IG. 15
	PIEDMONT - MA	Y 1 - AUG.	15
COASTAL PLAIN - APR. 15 - AUG. 15 SOIL AMENDMENTS			
FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 lb/acre GROUND AGRICULTURAL LIMESTONE AND 750 lb/acre 10-10-10 FERTILIZER. MULCH			
APPLY 4,000 Ib/ocre STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET			
	MAINTENANCE		SED AS A MULCH ANCHORING TOOL.
			IOT FULLY ADEQUATE. RESEED, REFERTILIZE LLOWING EROSION OR OTHER DAMAGE.
TEMPORARY SEEDING RECOMMENDATIONS FOR FALL			
			NG MIXTURE
	SPECIESRATE (lb/acre)RYE (GRAIN)120		
	SEEDING DATES		
			FC 15
	MOUNTAINS – A COASTAL PLAIN	UG. 15 — DI AND PIEDMON	EC. 15 NT – AUG. 15 – DEC. 15
LIMESTONE AND 1,000 lb/acre 10-10-10 FERTILIZER.			
	MOUNTAINS – A COASTAL PLAIN SOIL AMENDMEN FOLLOW SOIL TE LIMESTONE AND	UG. 15 - DI AND PIEDMON IS IST OR APPL'	NT - AUG. 15 - DEC. 15 Y 2,000 lb/acre GROUND AGRICULTURAL
	MOUNTAINS – A COASTAL PLAIN SOIL AMENDMEN FOLLOW SOIL TE LIMESTONE AND MULCH APPLY 4,000 Ib, NETTING, OR A	UG. 15 – DI AND PIEDMOM TS ST OR APPL 1,000 Ib/ac /acre STRAW MULCH ANCH	NT - AUG, 15 - DEC, 15 Y 2,000 lb/acre GROUND AGRICULTURAL re 10-10-10 FERTILIZER. . ANCHOR STRAW BY TACKING WITH ASPHALT, ORING TOOL. A DISK WITH BLADES SET
	MOUNTAINS – A COASTAL PLAIN SOIL AMENDMEN FOLLOW SOIL TE LIMESTONE AND MULCH APPLY 4,000 Ib, NETTING, OR A I NEARLY STRAIGH MAINTENANCE REPAIR AND REF	UG. 15 – DI AND PIEDMON IS ST OR APPL 1,000 Ib/ac /acre STRAW MULCH ANCH T CAN BE US FERTILIZE DAM	NT - AUG, 15 - DEC, 15 Y 2,000 lb/acre GROUND AGRICULTURAL re 10-10-10 FERTILIZER. . ANCHOR STRAW BY TACKING WITH ASPHALT,

50 Ib/acre OF NITROGEN IN MARCH, IF IT IS NECESSARY TO EXTENT TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 Ib/acre KOBE (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.

SITE WORK NOTES: 1. THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH FIELD CONSTRUCTION CONDITIONS. CONTRACTOR SHALL COORDINATE WORK WITHIN NCDOT AND LOCAL RIGHT F WAYS WITH PROPER AUTHORITIES AND SHALL MEET ANY REQUIREMENTS AS TO TRAFFIC CONTROL AND CONNECTION TO EXISTING STREETS. 3. CLEARING AND GRUBBING: REMOVE ALL TREES AS REQUIRED UNLESS OTHERWISE NOTED TO REMAIN, STUMPS, ROOTS, SHRUBBERY, ASPHALT, CONCRETE, STRUCTURES, BURIED UTILITIES, STORAGE TANKS, ETC. WITHIN LIMITS OF CONSTRUCTION. 4. STRIPPING: BEFORE EXCAVATING OR FILLING, REMOVE ALL TOPSOIL, WOOD, LEAVES, AND ANY OTHER UNSUITABLE MATERIAL. 5. MUCKING: REMOVE ANY SOFT, ORGANIC SILT MATERIALS AND EXISTING BURIED CONSTRUCTION DEBRIS AS REQUIRED AND FILL TO SUBGRADE ELEVATIONS WITH A CLEAN SELECT-FILL COMPACTED AS SPECIFIED. 6. DISPOSAL: CLEARED, GRUBBED, STRIPPED OR EXCAVATED SPOIL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND STATE CODES. 7. BORROW MATERIAL: THE CONTRACTOR SHALL FURNISH BORROW MATERIAL REQUIRED FROM OFF SITE AND OBTAIN ALL REQUIRED PERMITS ASSOCIATED WITH BORROW OPERATIONS. 8. FILL AND COMPACTION: AFTER STRIPPING THOSE AREAS DESIGNATED TO RECEIVE FILL SHOULD BE PROOFROLLED. THE TOP 8" OF SUBGRADE SHALL BE COMPACTED TO AT LEAST 98% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT. ANY AREA WHICH PUMPS OR RUTS EXCESSIVELY SHOULD BE UNDERCUT AND REPLACED WITH A CLEAN, SILTY OR CLAYEY SAND HAVING A UNIFIED SOIL CLASSIFICATION OF SP, SM, OR SC. FILL MATERIAL 5' OUTSIDE OF BUILDING AREAS SHALL THEN BE PLACED IN LAYERS NOT TO EXCEED 8" AND COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698) WITH THE UPPER 12 INCHES OF SUBGRADE BEING COMPACTED TO 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. FILL MATERIALS WITHIN BUILDING AREAS TO A LINE OUTSIDE THE BUILDING AREAS SHALL BE PLACED IN LAYERS NOT TO EXCEED 8" AND COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698) WITH THE UPPER 12 INCHES OF SUBGRADE BEING COMPACTED IN 6 INCH LAYERS TO 100% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. IN AREAS WHERE NO STRUCTURAL FILL IS TO BE PLACED THE UPPER 12 INCHES OF IN-PLACE SUBGRADE SHOULD BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY, IF THE MATERIAL IS TOO DRY TO COMPACT TO THE REQUIRED DENSITY EACH LAYER SHALL BE WETTED IN ACCORDANCE WITH COMPACTION REQUIREMENTS. IF THE MATERIAL IS TOO WET TO SECURE PROPER COMPACTION, IT SHALL BE HARROWED REPEATEDLY OR OTHERWISE AERATED WITH SUITABLE EQUIPMENT UNTIL OPTIMUM MOISTURE CONTENT IS OBTAINED. FILL SHALL BE PLACED IN SUCH A MANNER THAT THE SURFACE WILL DRAIN READILY AT ALL TIMES. SEE STRUCTURAL NOTES AND SOILS REPORT FOR ADDITIONAL REQUIREMENTS 9. LAYOUT: THE CONTRACTOR SHALL PROVIDE ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK. 10. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION. 11. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION FROM SURVEY BY COASTAL GEOMATICS AND PROVIDED BY OWNER. 12. THE CONTRACTOR SHALL VERIFY DIMENSIONS AT JOBSITE. 13. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF RELOCATION OR DISCONNECTION OF ALL EXISTING UTILITIES WITH APPLICABLE AGENCIES AND AUTHORITIES. 14. ALL PAVEMENT AND BASE MATERIALS AND WORKMANSHIP SHALL CONFORM TO NCDOT STANDARDS. 15. WATER AND SEWER SERVICES SHALL BE INSTALLED TO MEET LOCAL AND STATE PLUMBING CODES. METER AND TAPS SHALL MEET ALL LOCAL REQUIREMENTS 16. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE. 17. CONTRACTOR SHALL NOTE THAT EARTHWORK QUANTITIES ARE HIS RESPONSIBILITY, PLANS DO NOT REPRESENT A BALANCED EARTHWORK CONDITION. 18, REINF. CONC. PIPE SHALL BE CLASS III W/RUBBER GASKETED JOINT OR "RAM NECK". INSTALL PER MANUFACTURER'S REQUIREMENTS.

19. USE WHITE LANE MARKING PAINT FOR ALL PAVEMENT MARKINGS. PAINT SHALL BE A CHLORINATED RUBBER ALKYD, FS TT-P-115, TYPE III, FACTORY MIXED, QUICK DRYING, NON-BLEEDING. 20. REFER TO THE PLUMBING DRAWINGS FOR LOCATION AND INVERTS OF NEW WASTE AND WATER LINES. 21. SEE ARCHITECTURAL PLANS FOR LOCATION OF ROOF DRAINS. THE GENERAL CONTRACTOR IS RESPONSIBLE TO CONNECT THESE LINES TO THE UNDERGROUND DOWNSPOUT DRAIN AT THE REQUIRED DEPTH TO DRAIN. ALL UNDERGROUND DOWNSPOUT DRAINS SHALL HAVE A MINIMUM SLOPE OF 1% AND BE SCH 40 PVC PIPE AS FOLLOWS: USE 4" PIPE FOR UP TO 4 DOWNSPOUT CONNECTIONS, 5" PIPE FOR 5 TO 8 DOWNSPOUT CONNECTIONS AND 8" PIPE FOR 9 OR MORE CONNECTIONS. 22. ALL DOWNSPOUTS SHALL HAVE AN AIR GAP PRIOR TO CONNECTION TO THE STORM DRAIN SYSTEM. 23. THE FINISHED GROUND ELEVATION AT THE BUILDING PERIMETER SHALL BE A MINIMUM OF 6 INCHES BELOW THE BUILDING FINISH FLOOR ELEVATION EXCEPT AT ENTRANCES AND ENTRANCE TRANSITIONS. EROSION CONTROL NOTES AND MAINTENANCE PLAN ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED FOR

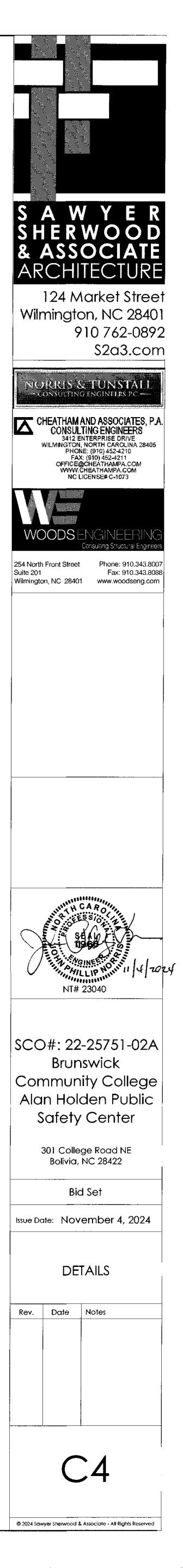
T. ALL EROSION AND SEDIMENT CONTROL MEASORES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY WURDEF-PRODUCING RAINFALL, BUT IN NO CASE, LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF-INCH RAINFALL. 2. ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTIONABLE MATERIAL SPILLED WASHED OR TRACKED ONTO THE CONSTRUCTION ENTRANCE OR ROADWAYS. 3. SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET

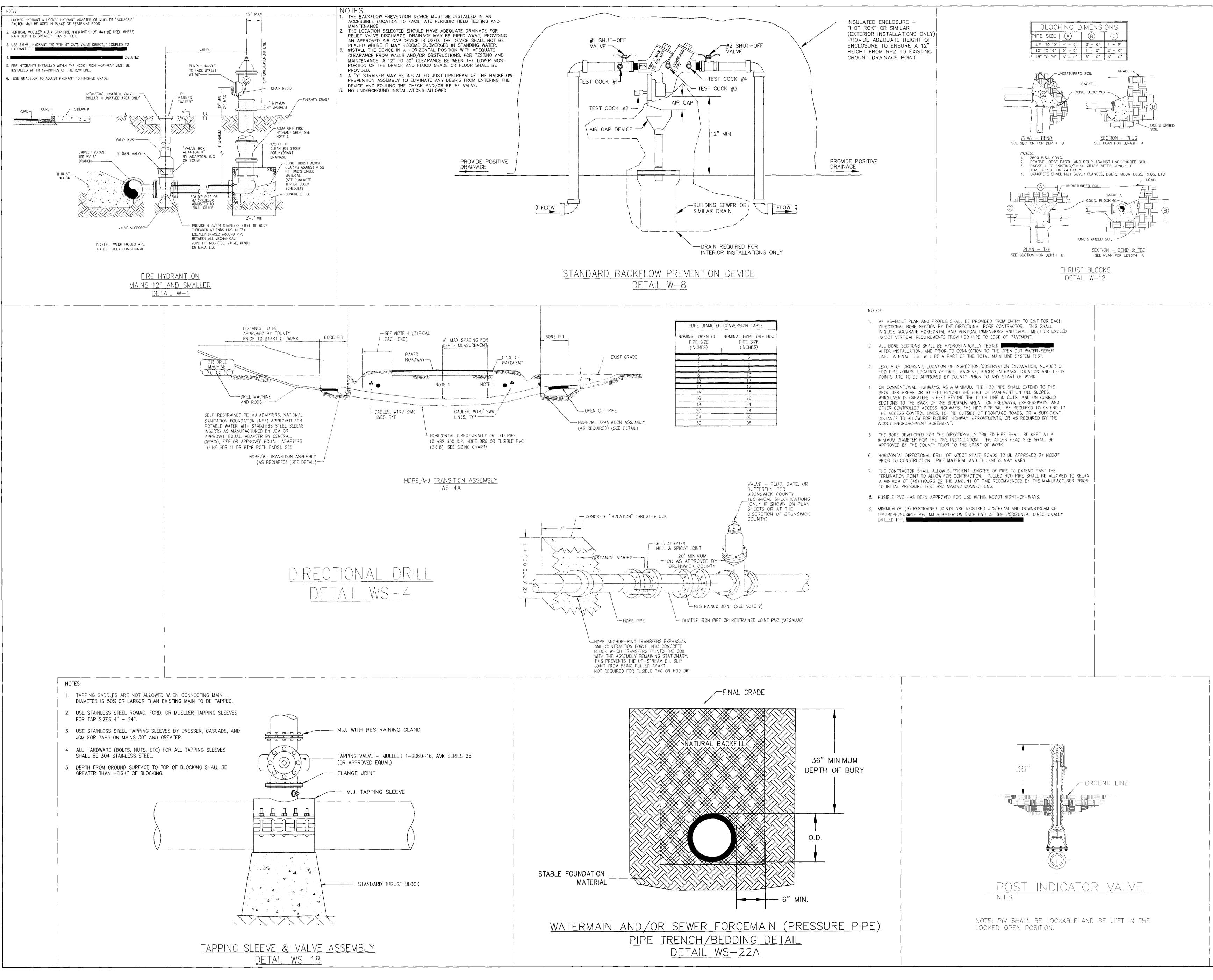
PROTECTION, BLOCK AND GRAVEL INLET PROTECTION, ROCK DOUGHNUT INLET PROTECTION AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND BEAVER DAMS, DANDY SACKS AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT. 4. DIVERSION DITCHES WILL BE CLEANED OUT IMMEDIATELY TO REMOVE

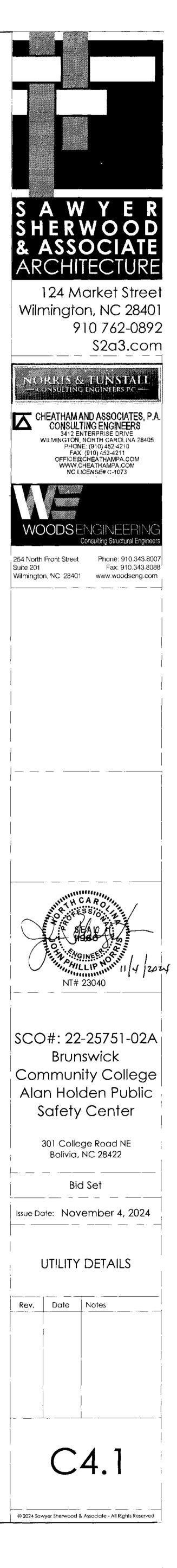
SEDIMENT OR OBSTRUCTIONS FROM THE FLOW AREA. THE DIVERSION RIDGES WILL ALSO BE REPAIRED. SWALES MUST BE TEMPORARILY STABILIZED WITHIN 7 CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY ASSOCIATED WITH A SWALE. 5. SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN

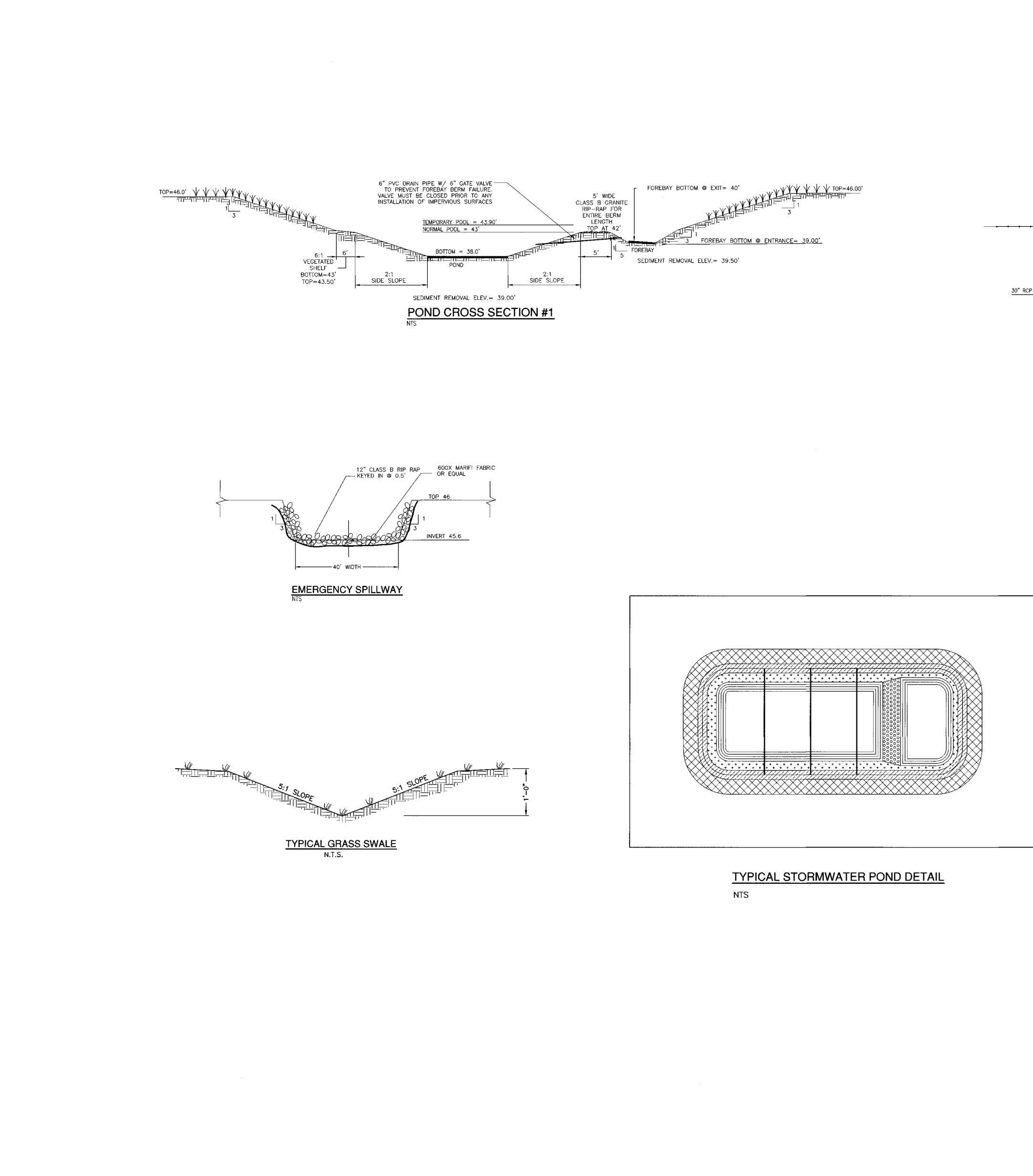
IT BECOMES HALF FILLED. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. STAKES MUST BE STEEL. STAKE SPACING WILL BE 6 FEET MAX. WITH THE USE OF EXTRA STRENGTH FABRIC, WITHOUT WIRE BACKING. STAKE SPACING WILL BE 8 FEET MAX. WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE DESIGNED AT LOW POINTS IN THE SEDIMENT FENCE, THE ROCK WILL BE REPAIRED OR REPLACED IF IT BECOMES HALF-FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED OR IS DAMAGED. SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE DESIGN STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OF IF THE ROCK IS DISLODGED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED FROM BAFFLES WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST BAFFLE. FLOATING SKIMMERS WILL BE INSPECTED WEEKLY AND WILL BE KEPT CLEAN. LAND QUALITY REQUIRES

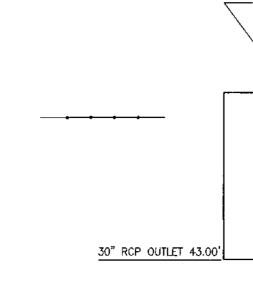
7. ALL SEEDED AREAS WILL BE FERTILIZED, RESEEDED AS NECESSARY, AND MULCHED, ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN, TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL SLOPES WILL BE STABILIZED WITHIN 21 CALENDAR DAYS. ALL OTHER AREAS WILL BE STABILIZED WITHIN 15 WORKING DAYS. : WATER QUALITY REQUIRES ALL SEEDED AREAS BE FERTILIZED, RESEEDED AS NECESSARY AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER. ALL PERIMETER DIKES, SWALES, HORIZONTAL TO DITCHES, PERIMETER SLOPES, ALL SLOPES STEEPER THAN (3:1) VERTICAL AND ALL HIGH QUALITY WATER (HQW) ZONES SHALL PROVIDE TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICAL BUT IN ANY EVENT WITHIN SEVEN (7) CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY. ALL OTHER DISTURBED AREAS SHALL PROVIDE TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICAL BUT IN ANY EVENT WITHIN FOURTEEN (14) CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY 8. BASIN OUTLET STRUCTURES AND SKIMMERS SHALL WITHDRAW WATER FROM THE SURFACE.

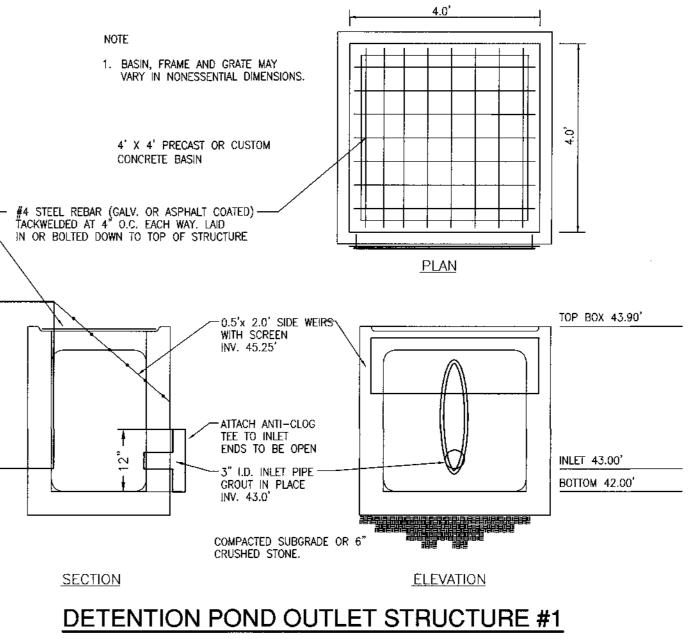












DETENTION POND NOTES:

POND LEGEND:



TOP OF POND/BERM SHALL BE PLANTED WITH NON-CLUMPING TURF GRASS. TREES AND WOODY SHRUBS SHALL NOT BE ALLOWED. BERMUDA GRASS SOD SHALL BE PLANTED ON THE MAINTENANCE SHELF/BERM, OR THE BERM MAY BE MATTED AND SEEDED WITH



BERMUDA GRASS SEED. VEGETATED SHELF 50 PLANTS PER 200 SF. PLANTS ARE TO BE EVENLY DISTRIBUTED AND SPACED AT 2' ON CENTER. SEE DETENTION

POND NOTES #4 & #5.



POND SLOPES ARE TO BE PLANTED WITH PERENNIAL TURF GRASS-HYBRID CENTIPEDE GRASS. POND SLOPE PLANTINGS SHALL BE EITHER SOD (CENTIPEDE GRASS) OR OR MATTED AND SEEDED WITH CENTIPEDE

GRASS SEED.



RIP RAP TO BE INSTALLED ACROSS ENTIRE FOREBAY BERM

POROUS BAFFLE

1. UPON STABILIZATION OF SITE, RESTORE POND TO DESIGN SIZE AND SHAPE.

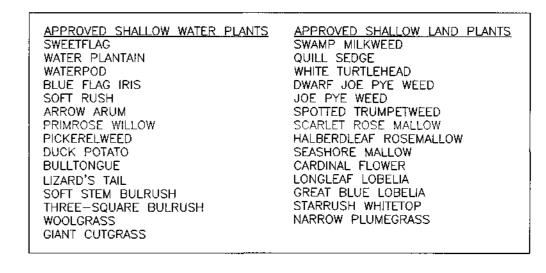
2. INSTALL TOPSOIL ON SIDE SLOPES ABOVE NORMAL POOL AND SEED WITH A MIX OF 20% CARPET GRASS, 24% BERMUDA, 20% FESCUE, 10% CREEPING RED FESCUE, AND 24% RYE. SEED AT A RATE OF 2–3 POUNDS PER 1000 SF. 3. VEGETATED SHELF: THE CONTRACTOR SHALL INSTALL EQUAL NUMBERS OF THE LISTED SUITABLE SPECIES. GROUP SIMILAR SPECIES OF PLANTS TOGETHER (APPROX, 10-15 PLANTS PER GROUP). NO PLANTS SHALL BE PLANTED WITHIN 10 FEET OF THE OUTLET STRUCTURE.

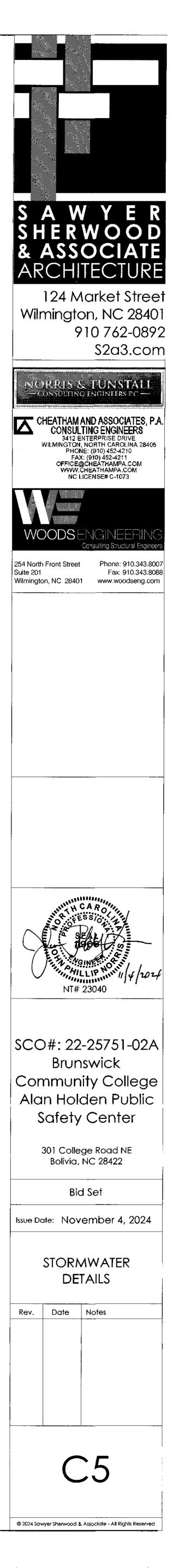
4. BOTTOM HALF OF VEGETATED SHELF SHALL BE PLANTED WITH SHALLOW WATER PLANT SPECIES, A MINIMUM OF (3) DIVERSE SPECIES, SEE TABLE. 5. TOP HALF OF VEGETATED SHELF SHALL BE PLANTED WITH SHALLOW LAND PLANT

SPECIES, A MINIMUM OF (3) DIVERSE SPECIES, SEE TABLE. 6. THE VEGETATED SHELF SHALL BE PLANTED WITH PLUGS OR POTS (MIN. 2 CU IN) AT $24^{\circ}-36^{\circ}$ O.C. IN A CHECKERBOARD PATTERN. A MINIMUM OF 50 PLANTS PER 200 SF OF SHELF AREA SHALL BE PLANTED.

7. THE VEGETATED SHELF SHALL BE PLANTED WITH A MINIMUM OF THREE DIVERSE SPECIES OF HERBACEOUS, NATIVE VEGETATION AT A MINIMUM DENSITY OF 50 PLANTS PER 200 SF OF SHELF AREA.

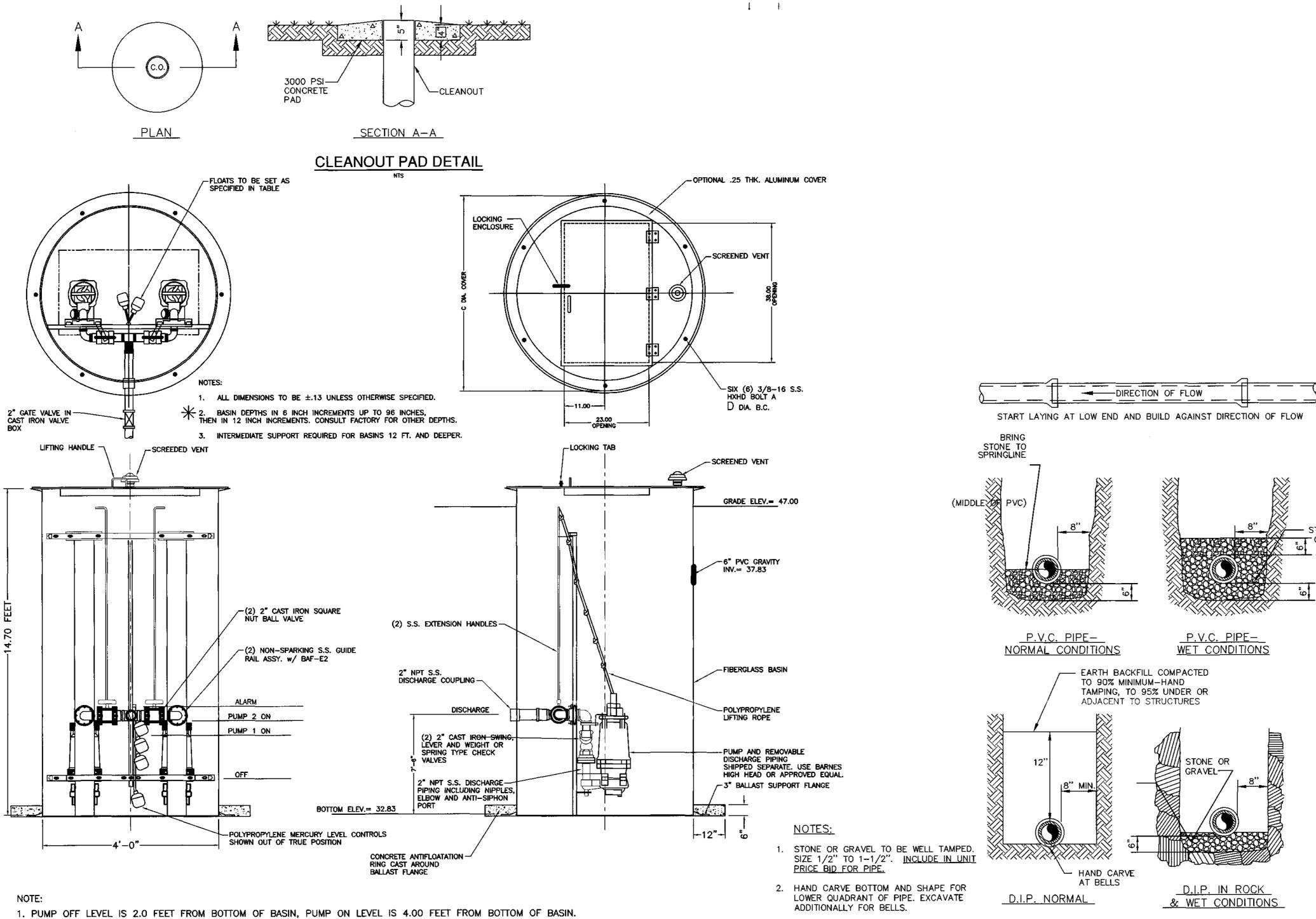
8. CATTAILS ARE NOT TO BE PLANTED IN OR AROUND POND.





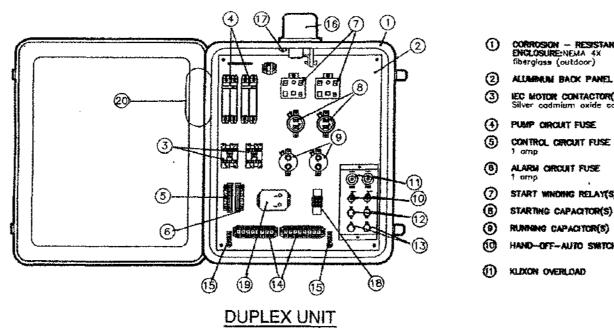
DUPLEX CONTROL PANEL SPECIFICATION

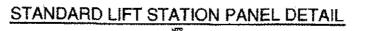
- 1. THE CONTROL PANEL ENCLOSURE IS NEMA 4X FIBERGLASS. CONTROL PANEL SHALL BE UL 698A LISTED.
- 2 A CIRCUIT BREAKER IS PROVIDED FOR EACH PUMP MOTOR.
- 3. AN IEC MOTOR STARTER IS PROVIDED FOR EACH PUMP MOTOR.
- 4. A CIRCUIT BREAKER SHALL BE PROVIDED FOR THE 120V CONTROL POWER. A SEPARATE CIRCUIT BREAKER SHALL BE PROVIDED FOR THE 120V ALARM CIRCUIT.
- 5. AN ELECTRONIC ALTERNATOR ALTERNATES PUMPS UPON SUCCESSIVE CYCLE.
- 6. HIGH LEVEL ALARM INDICATION IS PROVIDED BY NEMA 4X ALARM LIGHT WITH A RED POLYCARABONATE GLOBE AFFIXED TO THE TOP OF THE CONTROL ENCLOSURE; AND AN ALARM HORN AFFIXED TO THE ENCLOSURE WITH A SILENCE PUSH BUTTON AFFIXED TO THE ENCLOSURE DOOR.
- 7. EACH PUMP SHALL HAVE A HAND/OFF/AUTO SELECTOR SWITCH.
- 8. THE HOA TOGGLE SWITCH AND ALARM HORN SILENCE PUSH BUTTON SHALL BE MOUNTED ON A BRACKET ATTACHED TO THE ENCLOSURE BACK PANEL.
- 9. THE PUMPS SHALL OPERATE OFF FLOAT SWITCHES. (4) FLOAT SWITCHES SHALL BE PROVIDED.
- 10. TERMINAL STRIP SHALL BE PROVIDED FOR THE PUMP MOTORS, FLOAT SWITCHES, AND POWER SUPPLY TO THE CONTROL PANEL. FLOAT SWITCH CIRCUITRY SHALL BE CONNECTED TO INTRINSICALLY SAFE RELAYS.
- 11. THE DUPLEX PANEL PROVIDED WITH BACKUP POWER FROM TRANSFER SWITCH AND PORTABLE GENERATOR INLET, 60 AMP, 208/120V SINGLE PHASE - 3 WIRE.
- 12. PANEL PROVIDED WITH A 4-CHANNEL DIALER WITH BATTERY BACK-UP POWER PACK.
- 13. PROVIDE A MANUAL TRANSFER SWITCH & PLUG CONNECTION FOR PORTABLE BACKUP GENERATOR.
- 14. PROVIDE LOCKING ENCLOSURE FOR CONTROL PANEL.
- 15. PUMP CABLES AND FLOAT CABLE SHALL BE SUFFICIENT LENGTH TO REACH FROM WET WELL TO PUMP CONTROL PANEL. SEE PUMP CONTROL PANEL LOCATION ON ELECTRICAL DRAWINGS.

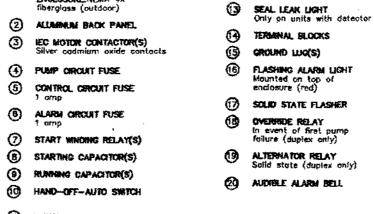


- 2. ALARM LEVEL IS 5.0 FEET FROM THE BOTTOM OF THE BASIN. 3. A REDUNDANT ALARM FLOAT SHALL BE INCORPORATED INTO THE BASIN COMPONENTS.
- 4. USE BARNES 2 HORSEPOWER MODEL ZOGP2072L PUMPS.

TYPICAL BARNES PUMP STATION DETAIL





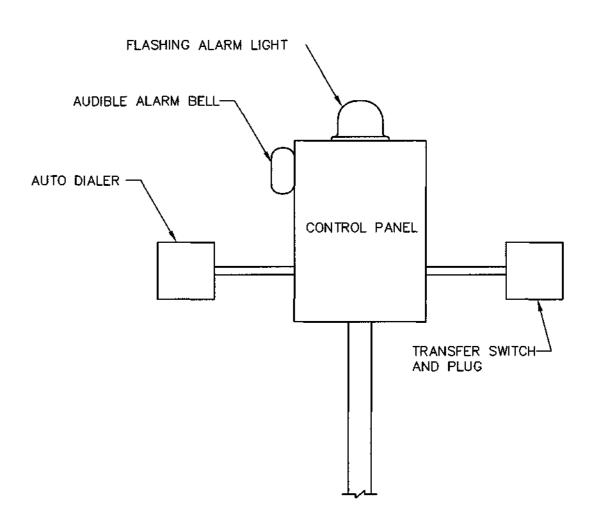


(2) PUMP ROAD LIGHT

(5) GROUND LUG(S)

TERMINAL BLOCKS

3. TRENCH SHEETING DRIVEN BELOW INVERT MUST NOT BE REMOVED.



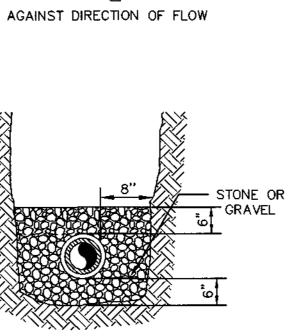
TYPICAL CONTROL PANEL LAYOUT

NTS

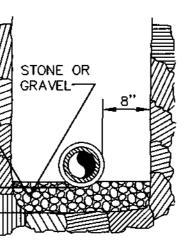
1. THE PANEL SHALL BE MOUNTED TO ADJACENT STRUCTURE SEE SHEET E1.9

<u>ITEM</u>	<u>ELEVATION</u> PUMP STA.
TOP ELEV.	47.50
INFLUENT PIPE (INVERT)	37.83
HIGH WATER ALARM	37.83
START LAG PUMP	37.33
START LEAD PUMP	36.83
PUMP OFF	34.83
BOTTOM OF WETWELL	32.83
BOTTOM OF STATION SLAB	32.83
WET WELL DIAMETER	4 FT

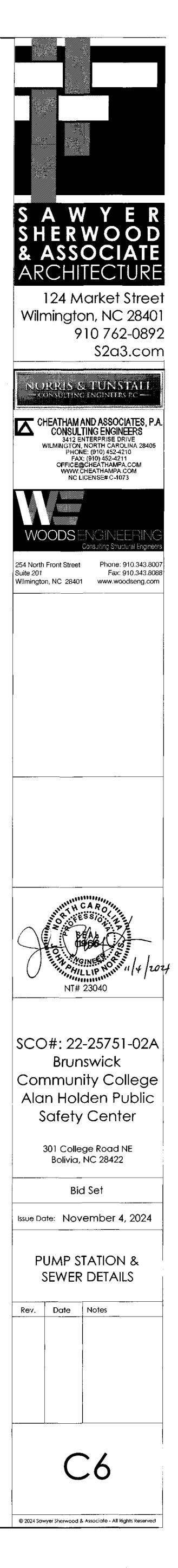
AN AUTO DIALER AND ACCESS TO A PORTABLE GENERATOR ARE REQUIRED. A MANUAL TRANSFER SWITCH SHALL BE PROVIDED FOR GENERATOR CONNECTION.



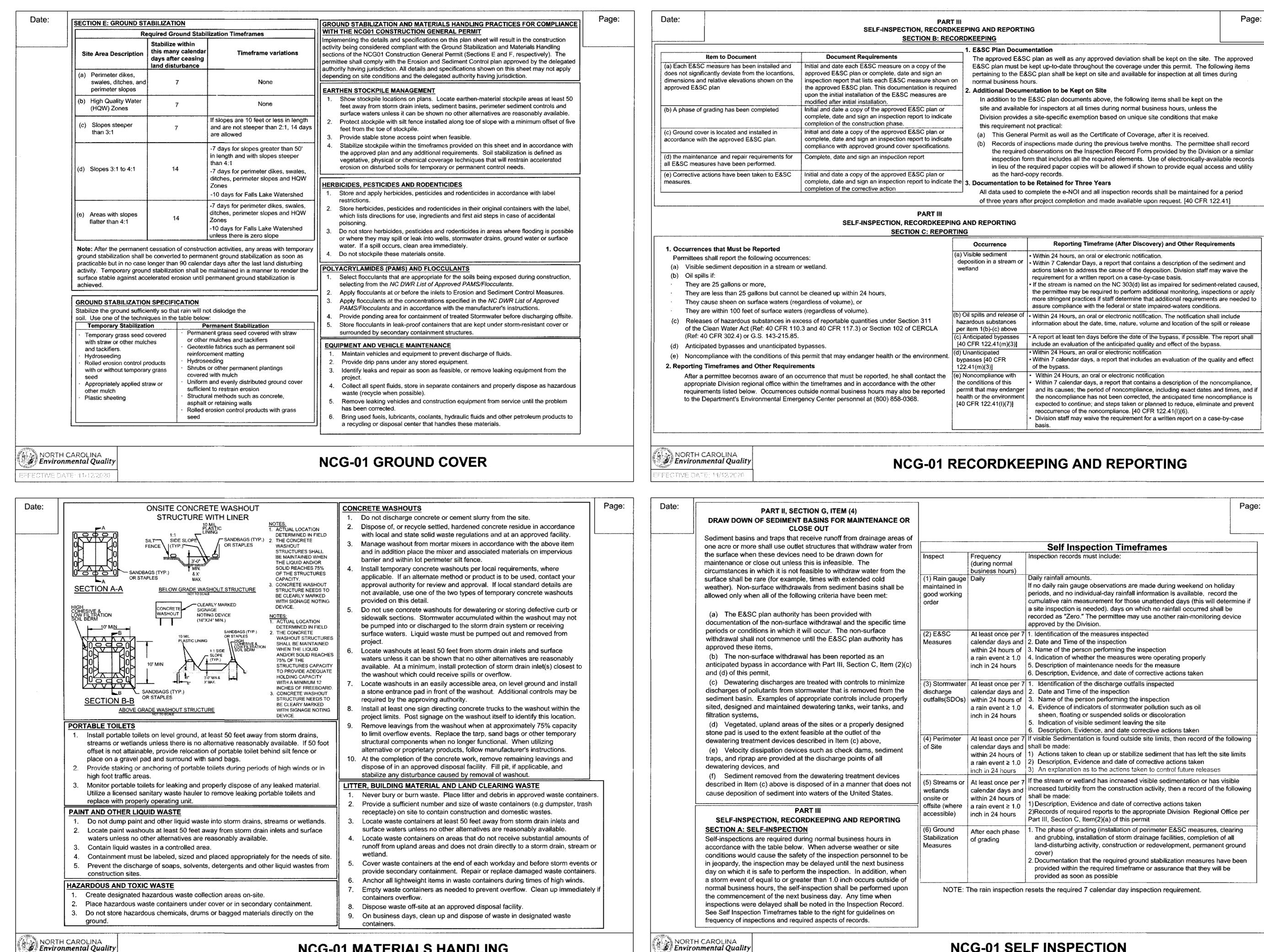
<u>P.V.C. PIPE</u> <u>WET CONDITIONS</u>



D.I.P. IN ROCK & WET CONDITIONS



STANDARD SEWER LINE TRENCH



NORTH CAROLINA Environmental Quality FECTIVE DATE: 15/52/2025

NCG-01 MATERIALS HANDLING

PECTIVE DATE A (12/202

PAR SELF-INSPECTION, RECORD		NG	Page	
SECTION B: REC				
	1. E&SC Plan Docum	nentation		
Requirements	The approved E&S	C plan as well as any approved deviation shall be kept on the site. Th	e approved	
E&SC measure on a copy of the or complete, date and sign an t lists each E&SC measure shown of plan. This documentation is require lation of the E&SC measures are	pertaining to the E8 normal business ho 2. Additional Docum	e kept up-to-date throughout the coverage under this permit. The follow SC plan shall be kept on site and available for inspection at all times of ours. entation to be Kept on Site E&SC plan documents above, the following items shall be kept on the	during	
nstallation.	1	•	2	
y of the approved E&SC plan or sign an inspection report to indicate nstruction phase.		e for inspectors at all times during normal business hours, unless the a site-specific exemption based on unique site conditions that make not practical:		
y of the approved E&SC plan or	(a) This Genera	Permit as well as the Certificate of Coverage, after it is received.		
sign an inspection report to indicate roved ground cover specifications.	(b) Records of it	nspections made during the previous twelve months. The permittee sl observations on the Inspection Record Form provided by the Division		
sign an inspection report		inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility		
y of the approved E&SC plan or ign an inspection report to indicate		copy records. be Retained for Three Years		
rective action	All data used to d	complete the e-NOI and all inspection records shall be maintained for a	a period	
		er project completion and made available upon request. [40 CFR 122.	•	
PART III INSPECTION, RECORDKEEPI <u>SECTION C: REPOR</u>		r		
	Occurrence	Reporting Timeframe (After Discovery) and Other Requirem	nents	
24 hours, or	(a) Visible sediment deposition in a stream or wetland	 Within 24 hours, an oral or electronic notification. Within 7 Calendar Days, a report that contains a description of the sedil actions taken to address the cause of the deposition. Division staff may requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sediment-re the permittee may be required to perform additional monitoring, inspectimore stringent practices if staff determine that additional requirements a assure compliance with the federal or state impaired-waters conditions. 	waive the elated caused, ions or apply	
ne). antities under Section 311) or Section 102 of CERCLA	(b) Oil spills and release of hazardous substances per item 1(b)-(c) above	 Within 24 Hours, an oral or electronic notification. The notification shall information about the date, time, nature, volume and location of the spill 		
	(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	 A report at least ten days before the date of the bypass, if possible. The include an evaluation of the anticipated quality and effect of the bypass. 	•	
anger health or the environment.	(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	 Within 24 Hours, an oral or electronic notification Within 7 calendar days, a report that includes an evaluation of the quali of the bypass. 	ly and effect	
e reported, he shall contact the n accordance with the other	(e) Noncompliance with the conditions of this permit that may endanger	 Within 24 Hours, an oral or electronic notification Within 7 calendar days, a report that contains a description of the none and its causes; the period of noncompliance, including exact dates and 		

health or the environment the noncompliance has not been corrected, the anticipated time noncompliance is

reoccurrence of the noncompliance. [40 CFR 122.41(I)(6).

expected to continue; and steps taken or planned to reduce, eliminate and prevent

Division staff may waive the requirement for a written report on a case-by-case

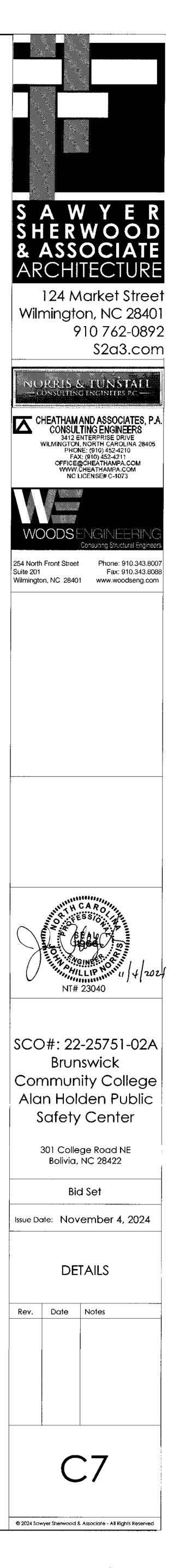
NCG-01 RECORDKEEPING AND REPORTING

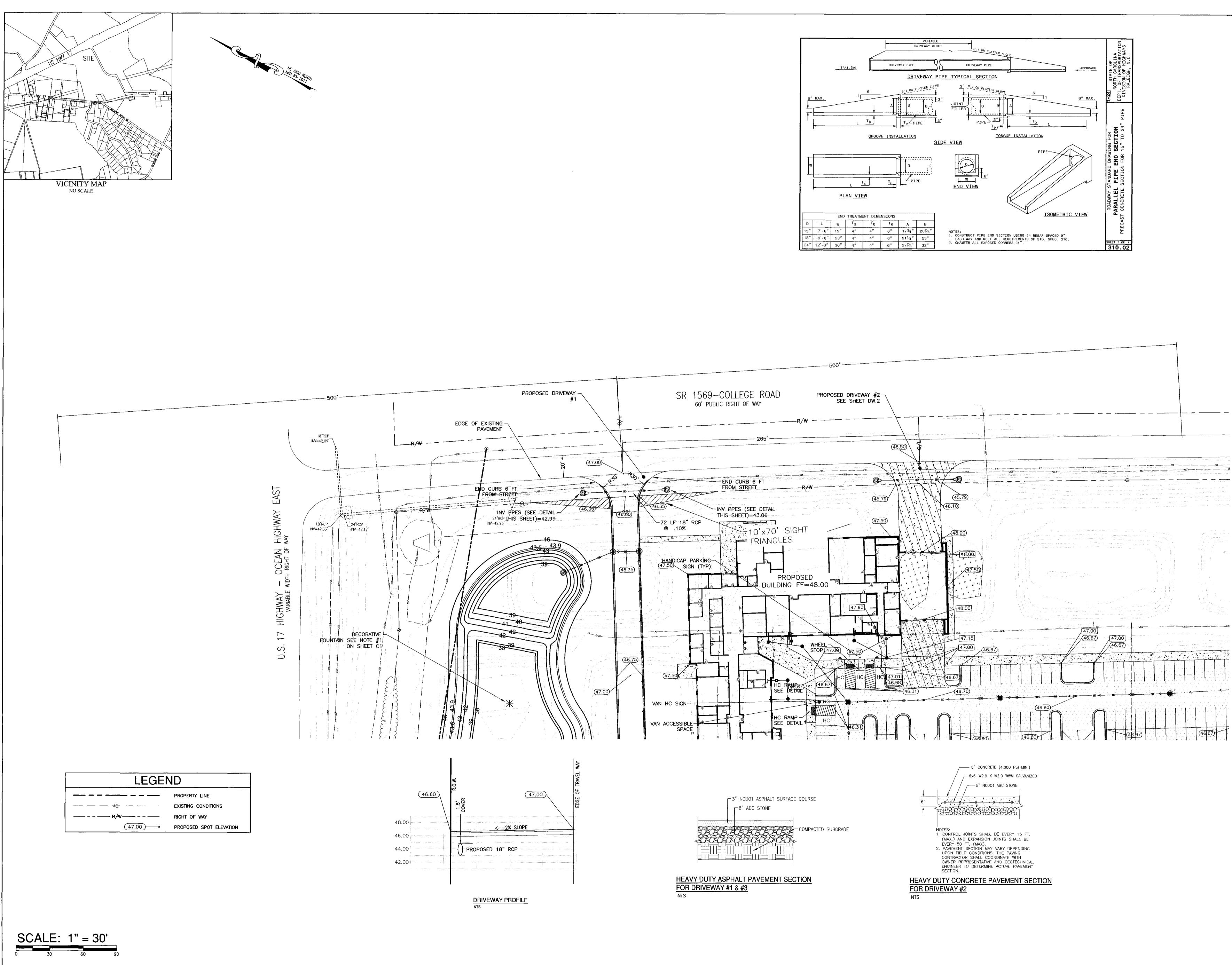
basis.

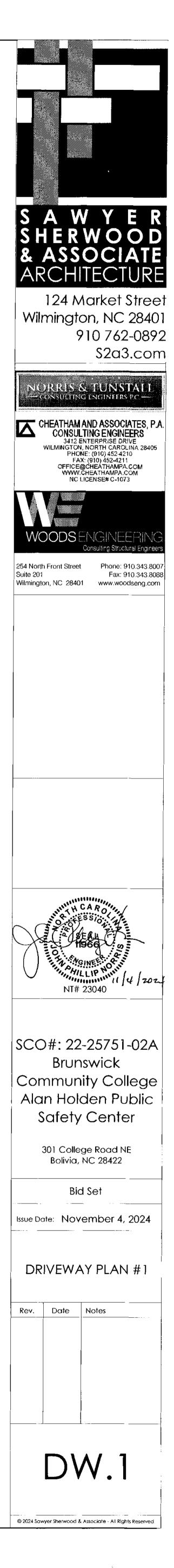
[40 CFR 122.41(I)(7)]

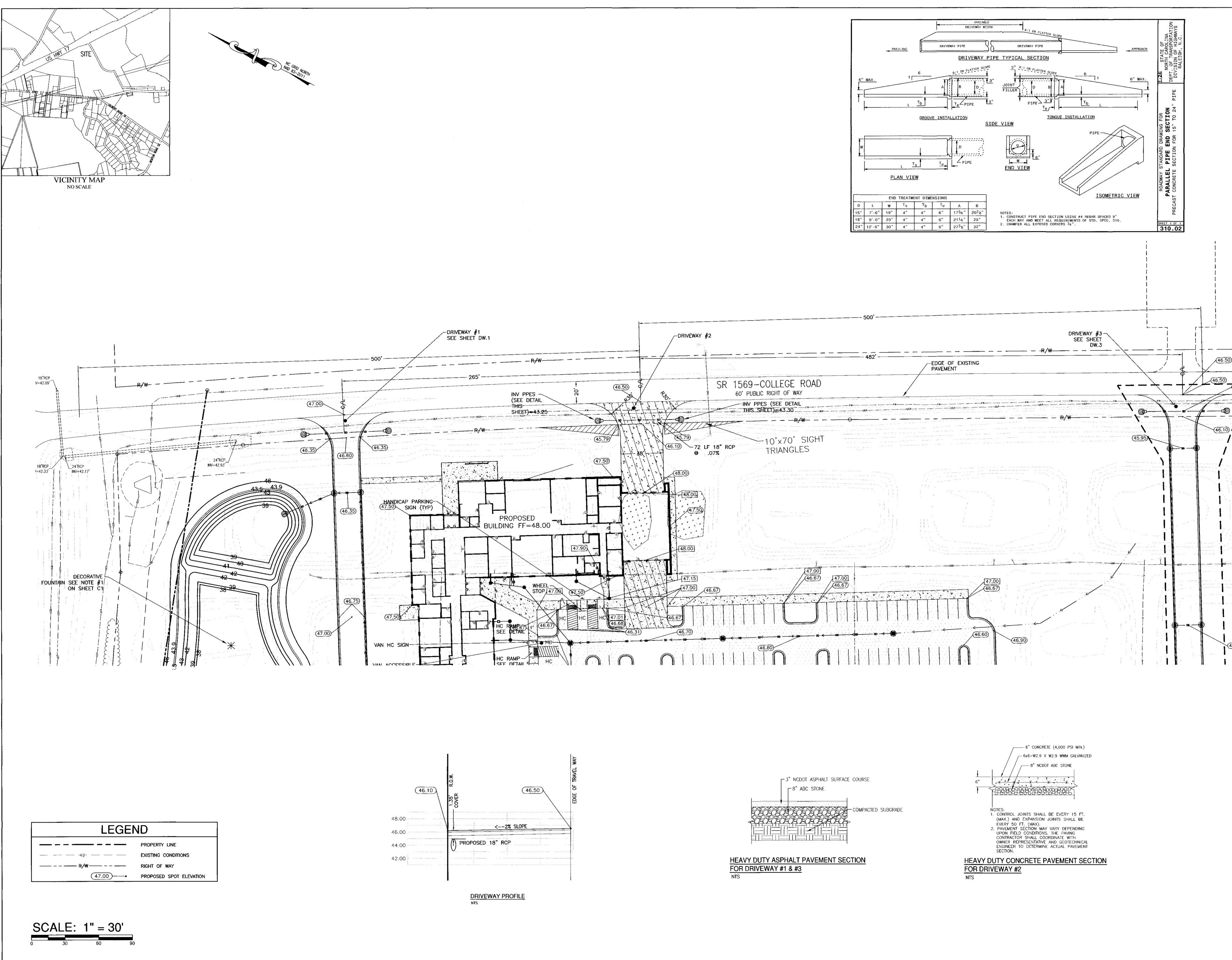
TENANCE OR			Pag
ainage areas of			0 - 16 h
raw water from /n for			Self Inspection Timeframes
e ater from the	Inspect	Frequency (during normal business hours)	Inspection records must include:
l cold sins shall be n met: h specific time	(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend on holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (this will determine if a site inspection is needed). days on which no rainfall occurred shall be recorded as "Zero." The permittee may use another rain-monitoring device approved by the Division.
urface uthority has as an n C, Item (2)(c)	(2) E&SC Measures		 Identification of the measures inspected Date and Time of the inspection Name of the person performing the inspection Indication of whether the measures were operating properly Description of maintenance needs for the measure Description, Evidence, and date of corrective actions taken
to minimize ved from the lude properly r tanks, and	(3) Stormwater discharge outfalls(SDOs)		 Identification of the discharge outfalls inspected Date and Time of the inspection Name of the person performing the inspection Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration
rly designed f the			 Indication of visible sediment leaving the site Description, Evidence, and date corrective actions taken
ove, s, sediment of all	(4) Perimeter of Site	·····	If visible Sedimentation is found outside site limits, then record of the following
nt devices r that does not d States.	(5) Streams or wetlands onsite or offsite (where	At least once per 7 calendar days and within 24 hours of a rain event \geq 1.0	increased turbidity from the construction activity, then a record of the following shall be made: 1) Description, Evidence and date of corrective actions taken
PORTING	accessible)	inch in 24 hours	2)Records of required reports to the appropriate Division Regional Office per Part III, Section C, Item(2)(a) of this permit
nours in her or site rsonnel to be ext business ddition, when irs outside of	(6) Ground Stabilization Measures	After each phase of grading	 The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover) Documentation that the required ground stabilization measures have been provided within the required timeframe or assurance that they will be provided as soon as possible
rformed upon ne when tion Record. lelines on	NOTE: 1	The rain inspection	resets the required 7 calendar day inspection requirement.

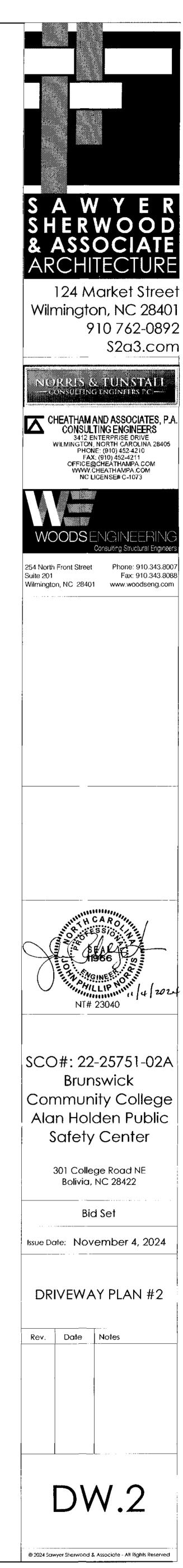
NCG-01 SELF INSPECTION

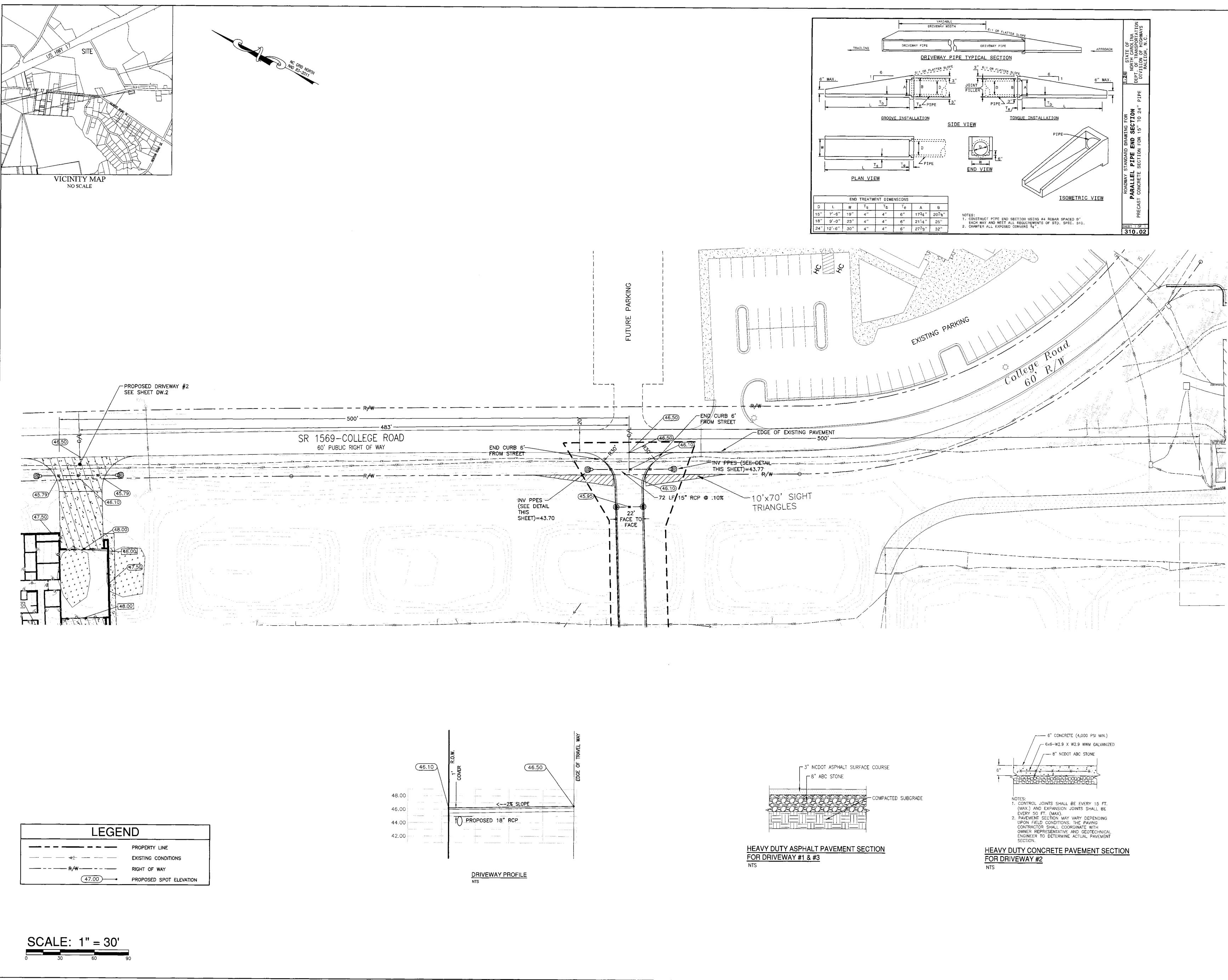


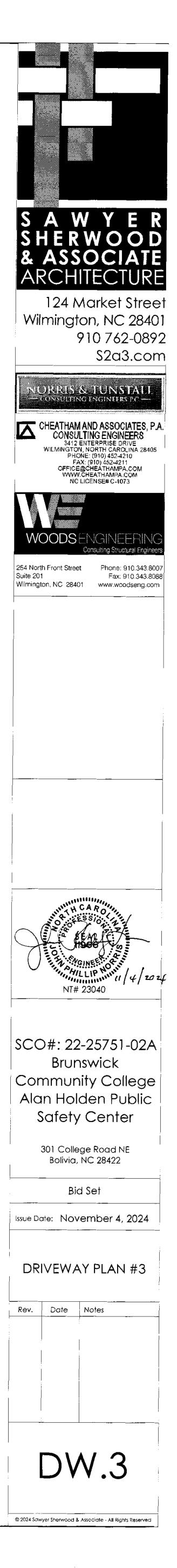


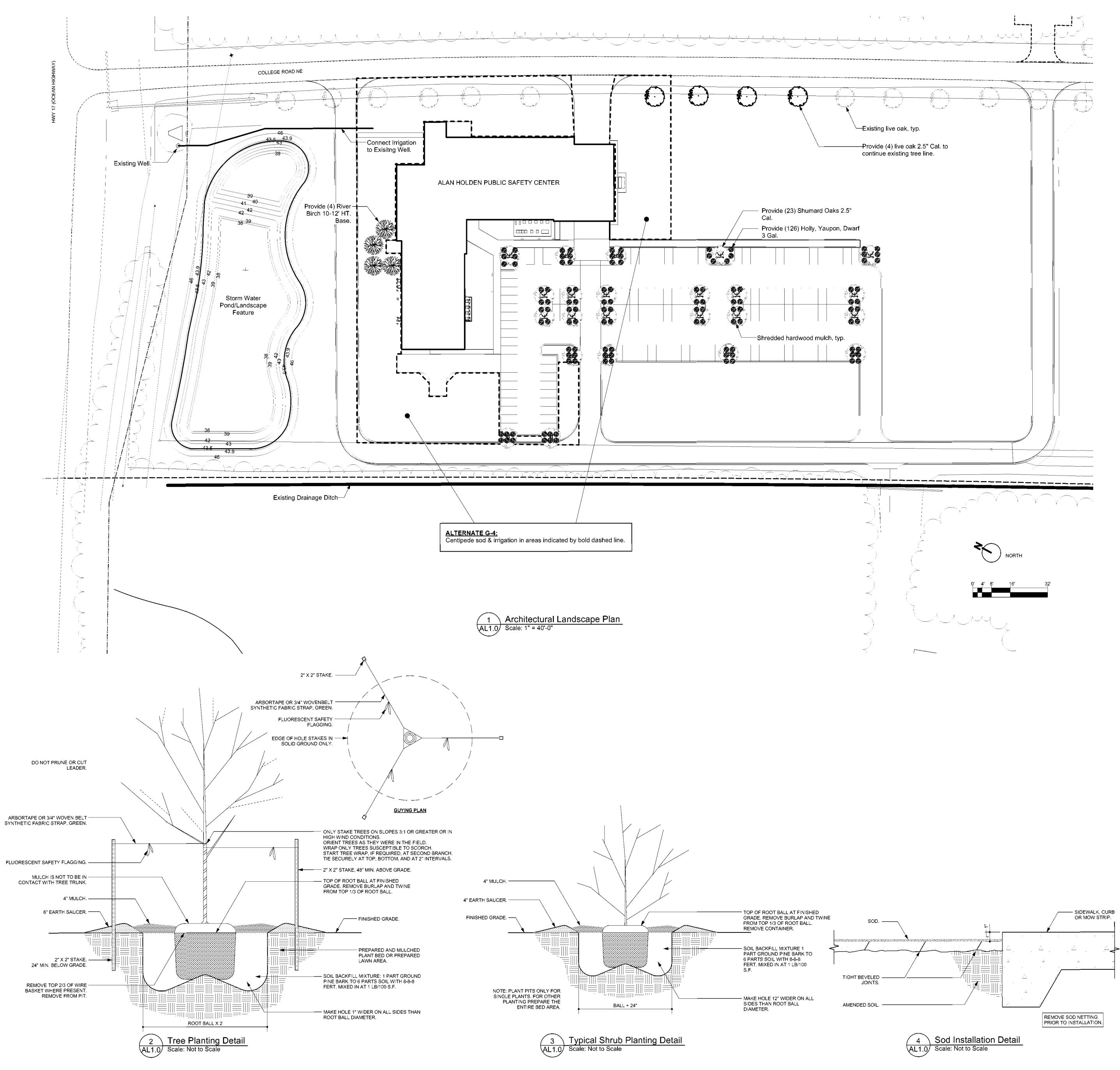


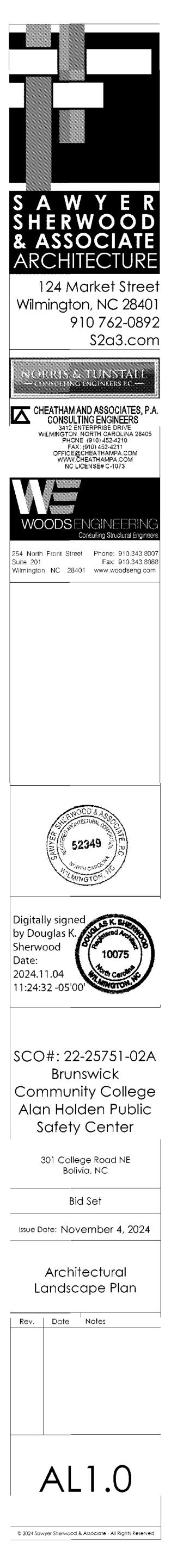


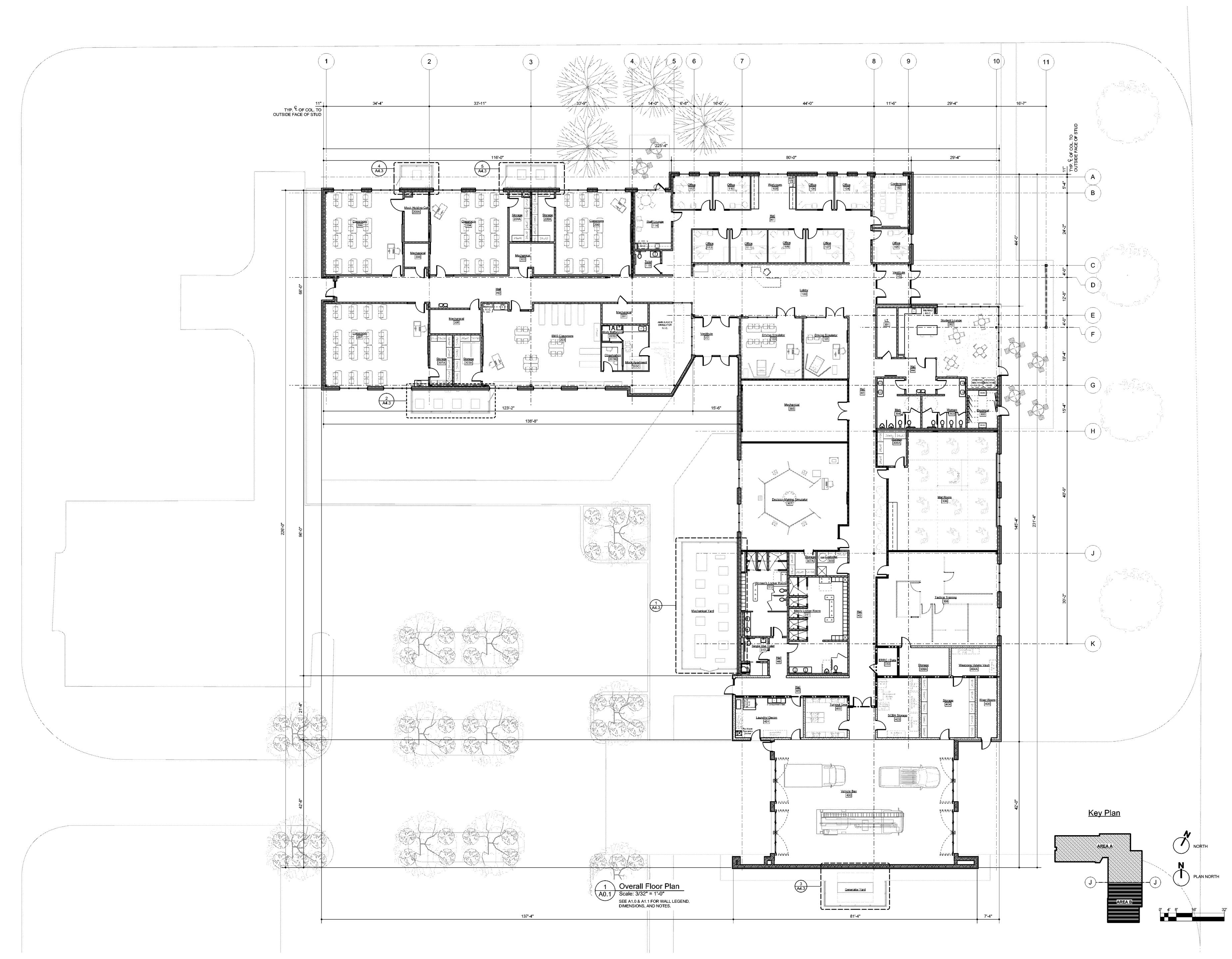


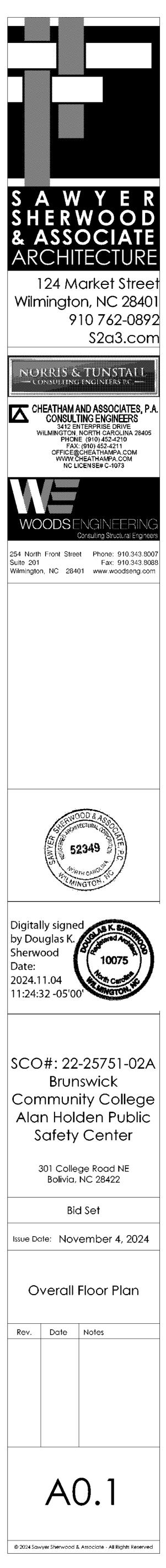


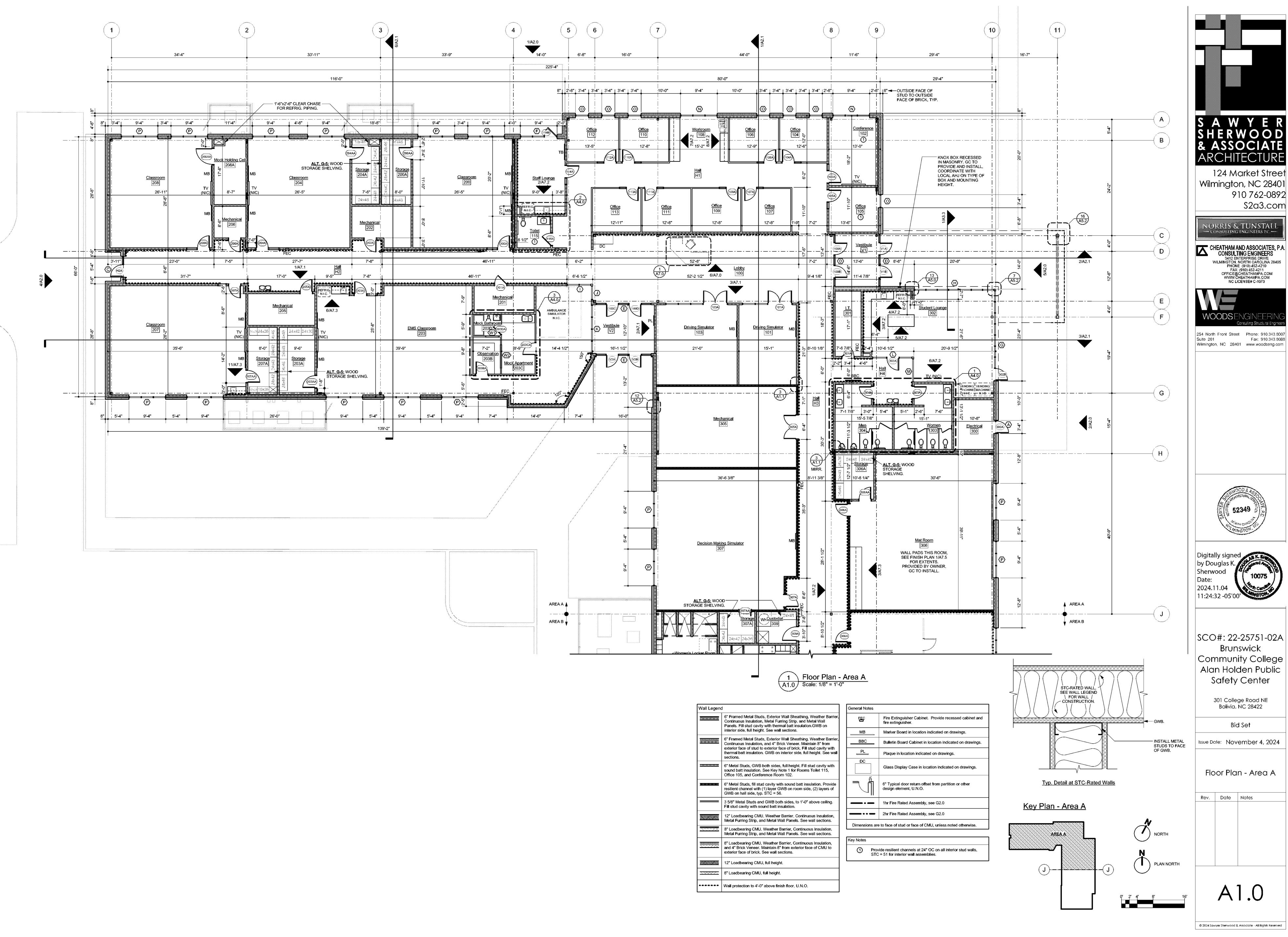




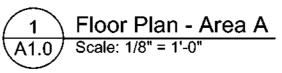


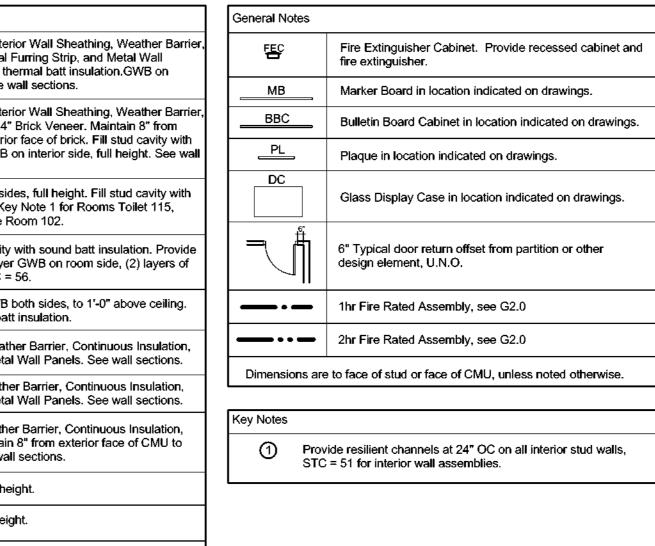


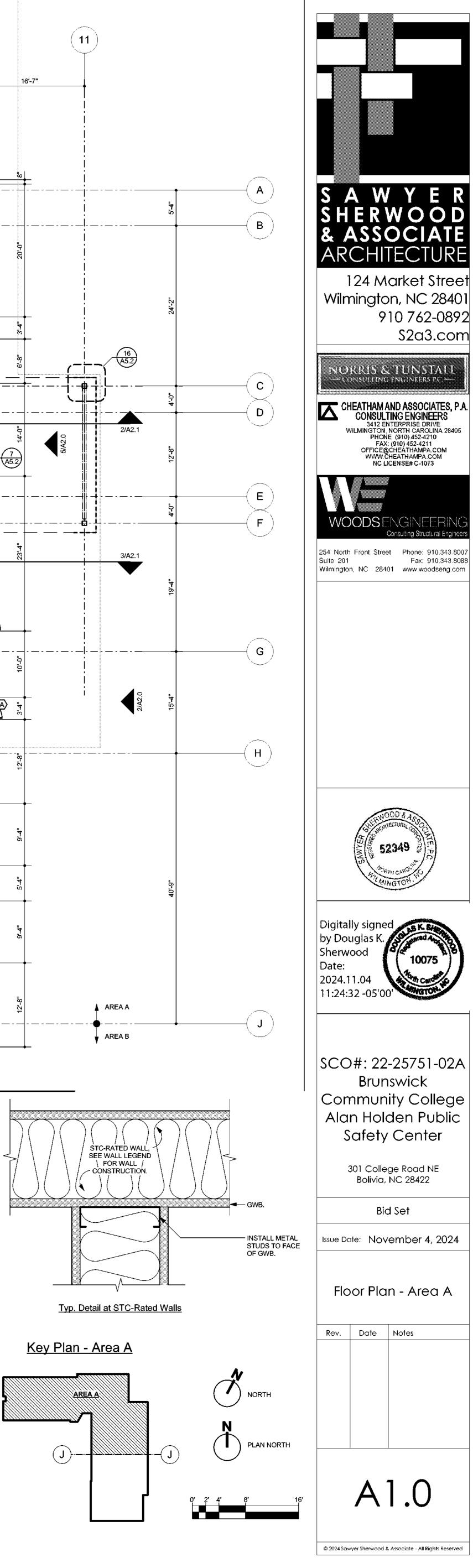


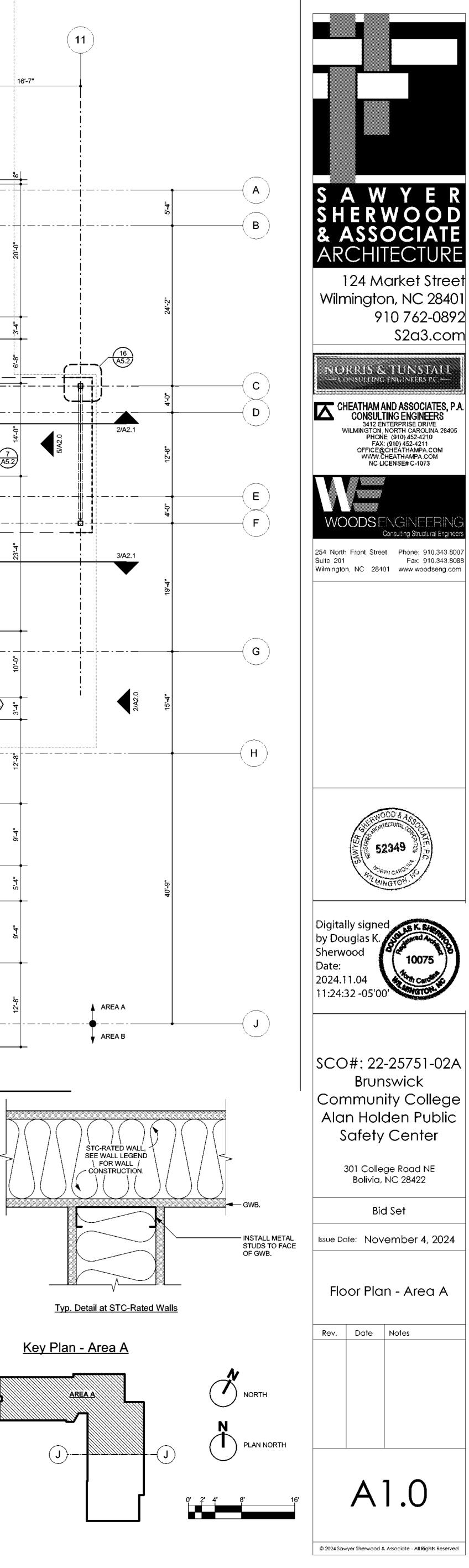


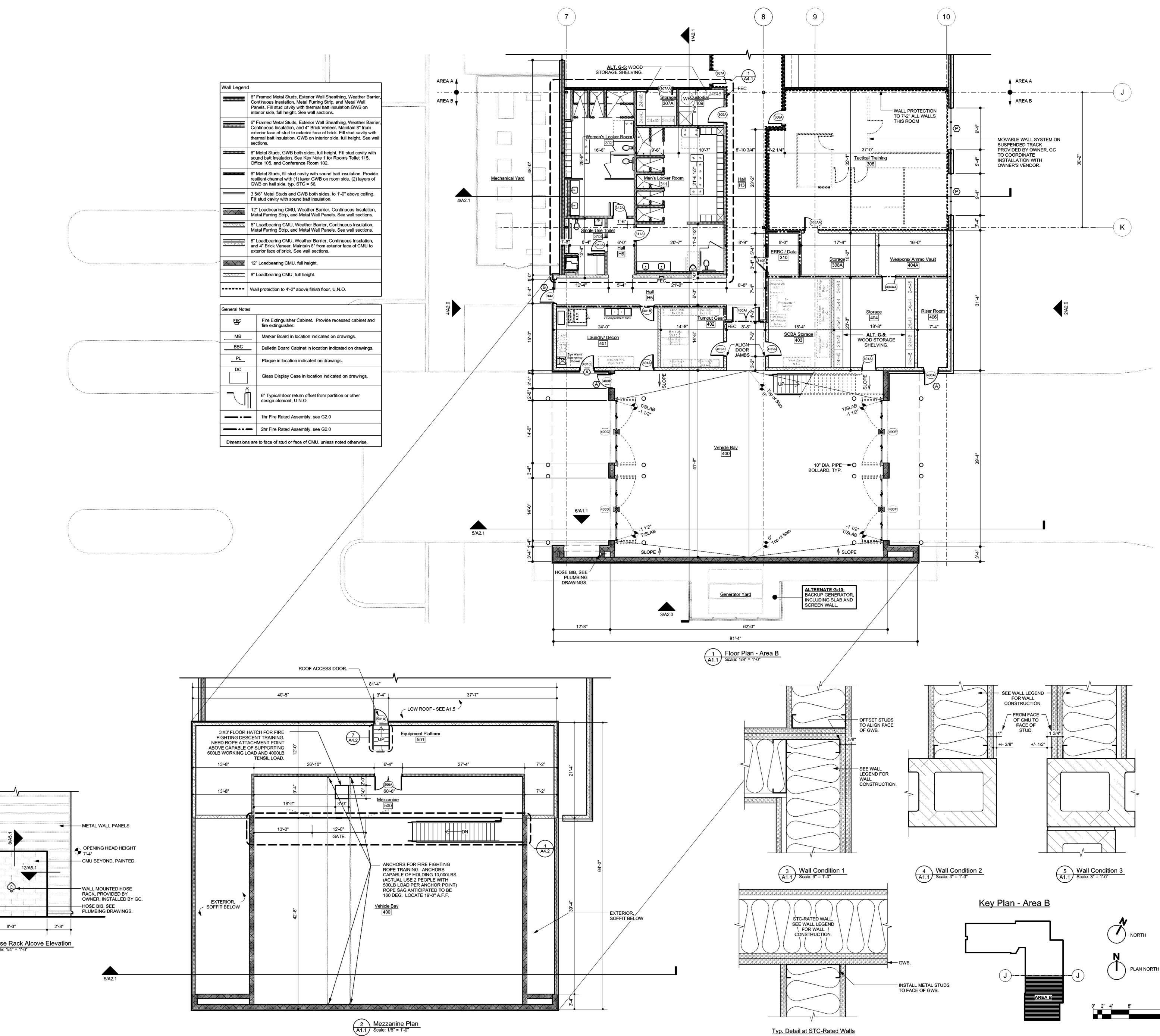
Wall Legend		
	6" Framed Metal Studs, Continuous Insulation, M Panels. Fill stud cavity w interior side, full height. S	
	6" Framed Metal Studs, I Continuous Insulation, ar exterior face of stud to ex thermal batt insulation. G sections.	
	6" Metal Studs, GWB bol sound batt insulation. Se Office 105, and Conferer	
	6" Metal Studs, fill stud c resilient channel with (1) GWB on hall side, typ. S	
	3 5/8" Metal Studs and G Fill stud cavity with sound	
	12" Loadbearing CMU, V Metal Furring Strip, and I	
<u></u>	8" Loadbearing CMU, We Metal Furring Strip, and I	
	8" Loadbearing CMU, We and 4" Brick Veneer. Mai exterior face of brick. See	
	12" Loadbearing CMU, fu	
<u> </u>	8" Loadbearing CMU, ful	
	Wall protection to 4'-0" at	

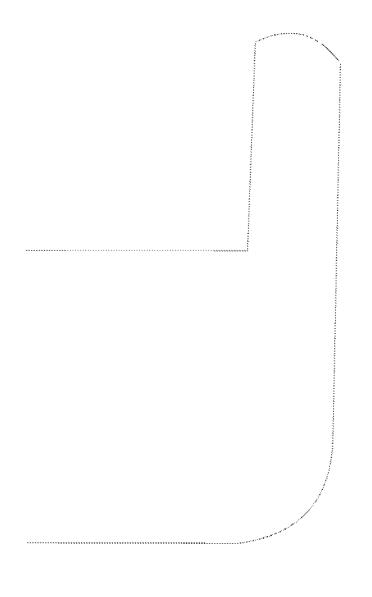


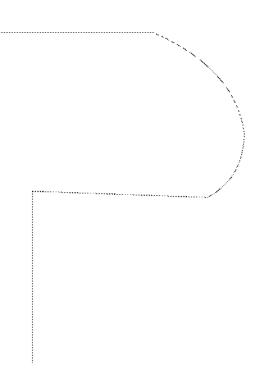




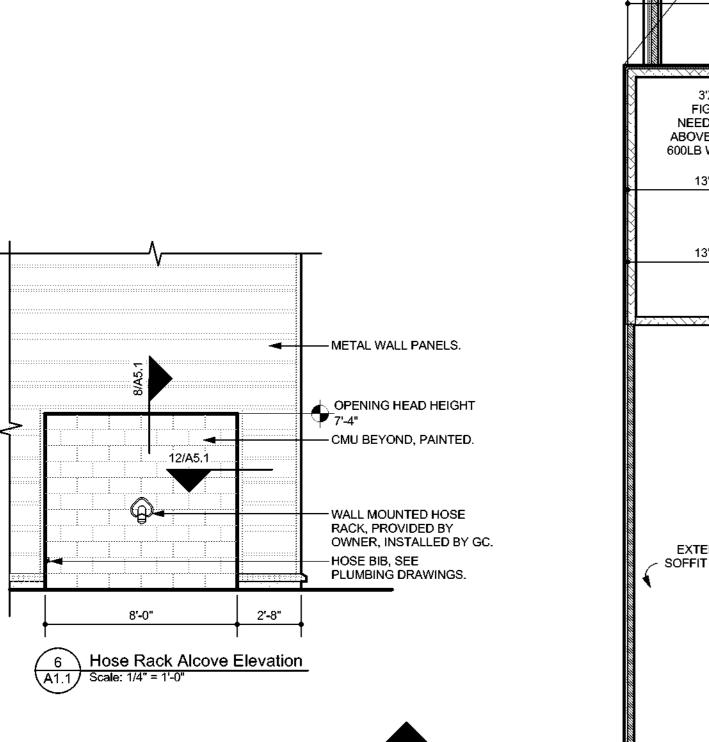


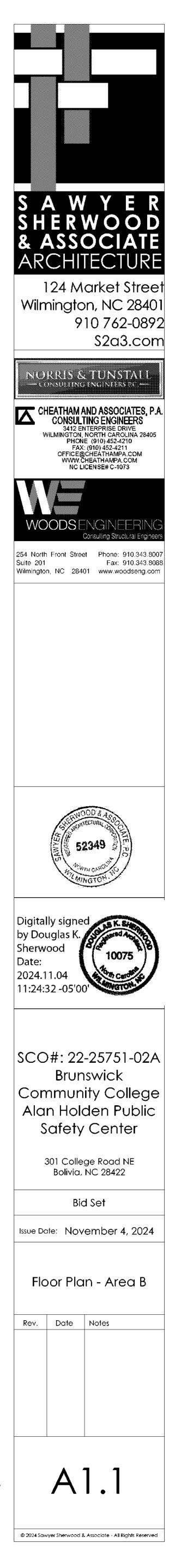


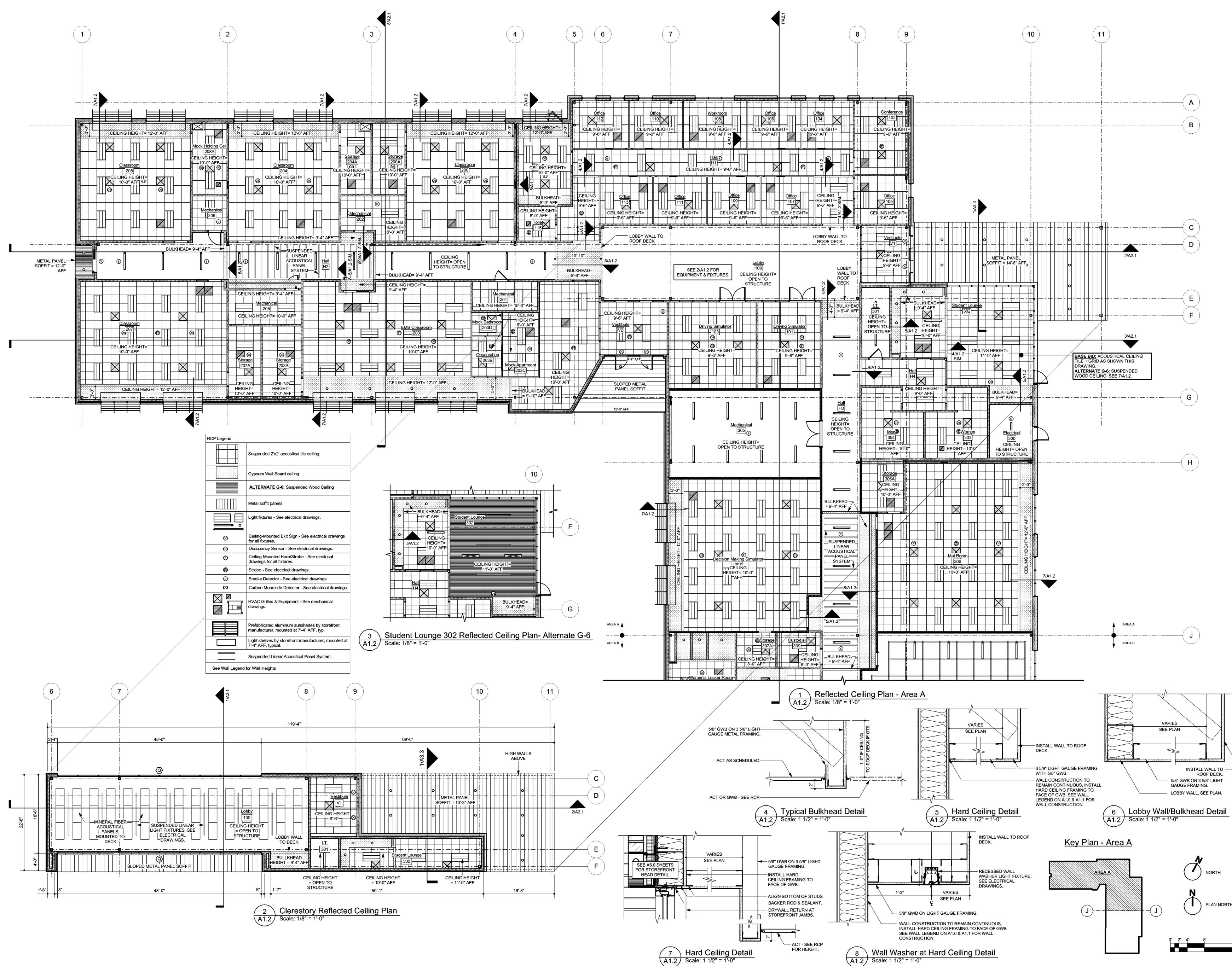


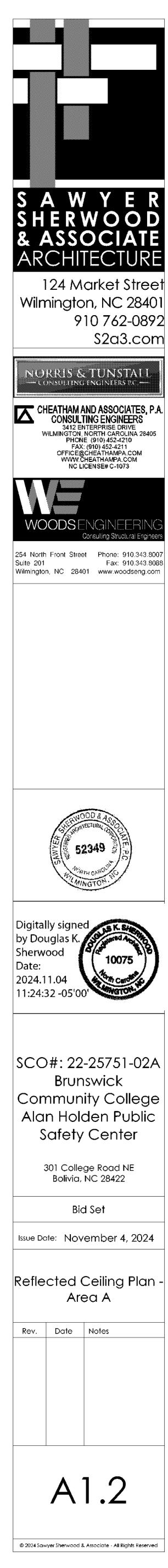




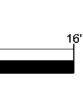


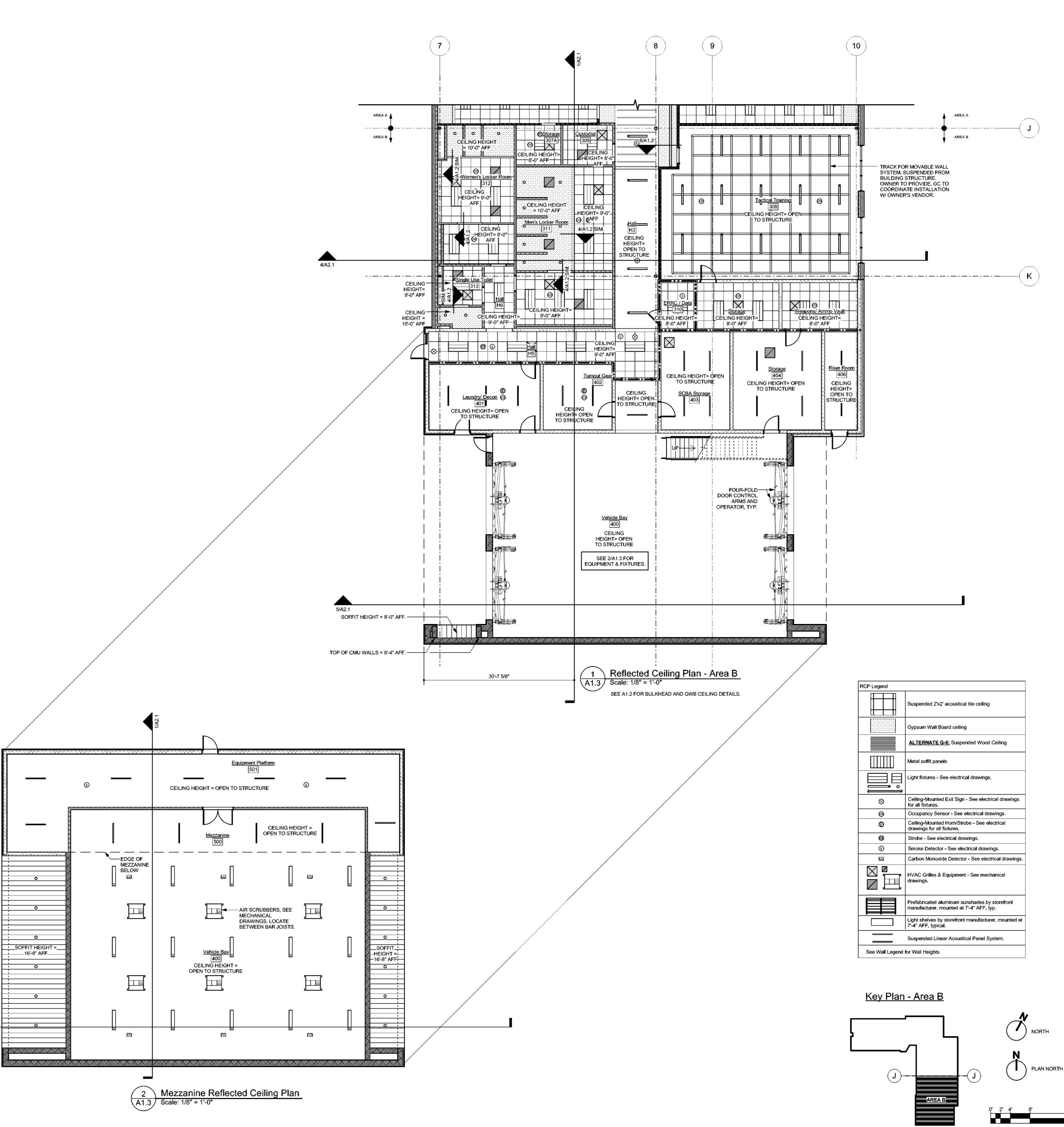




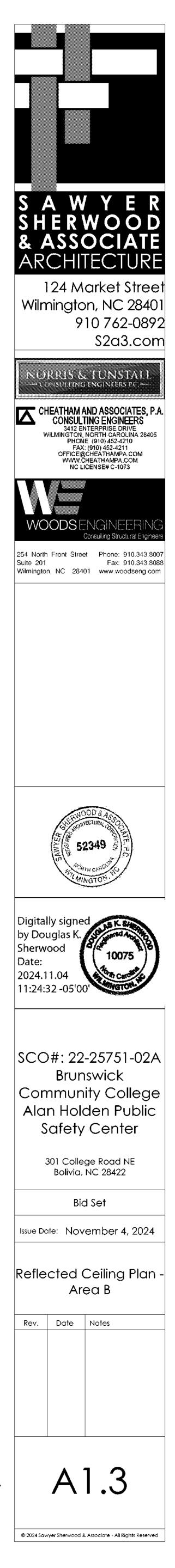


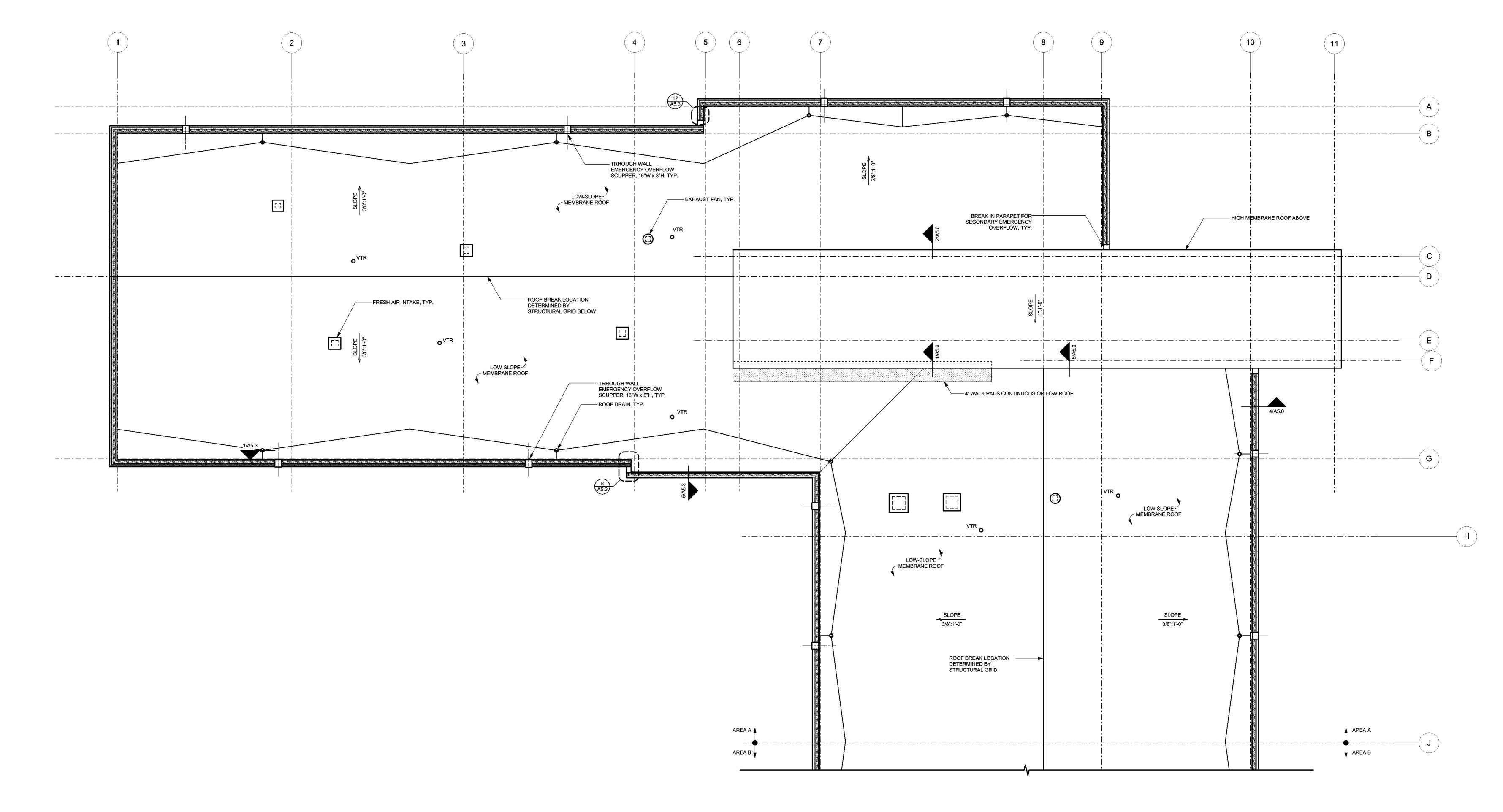






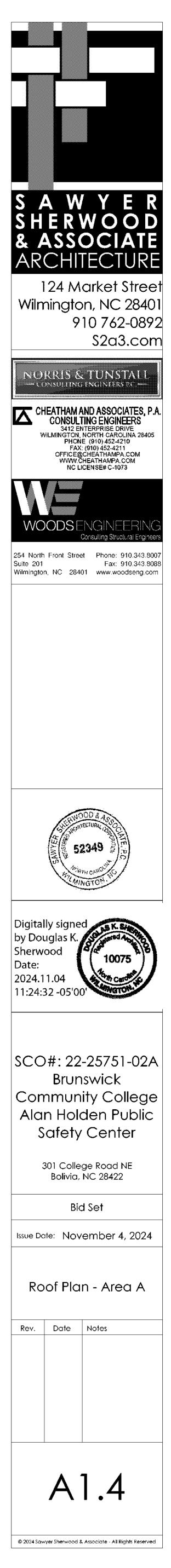
5/A2.1





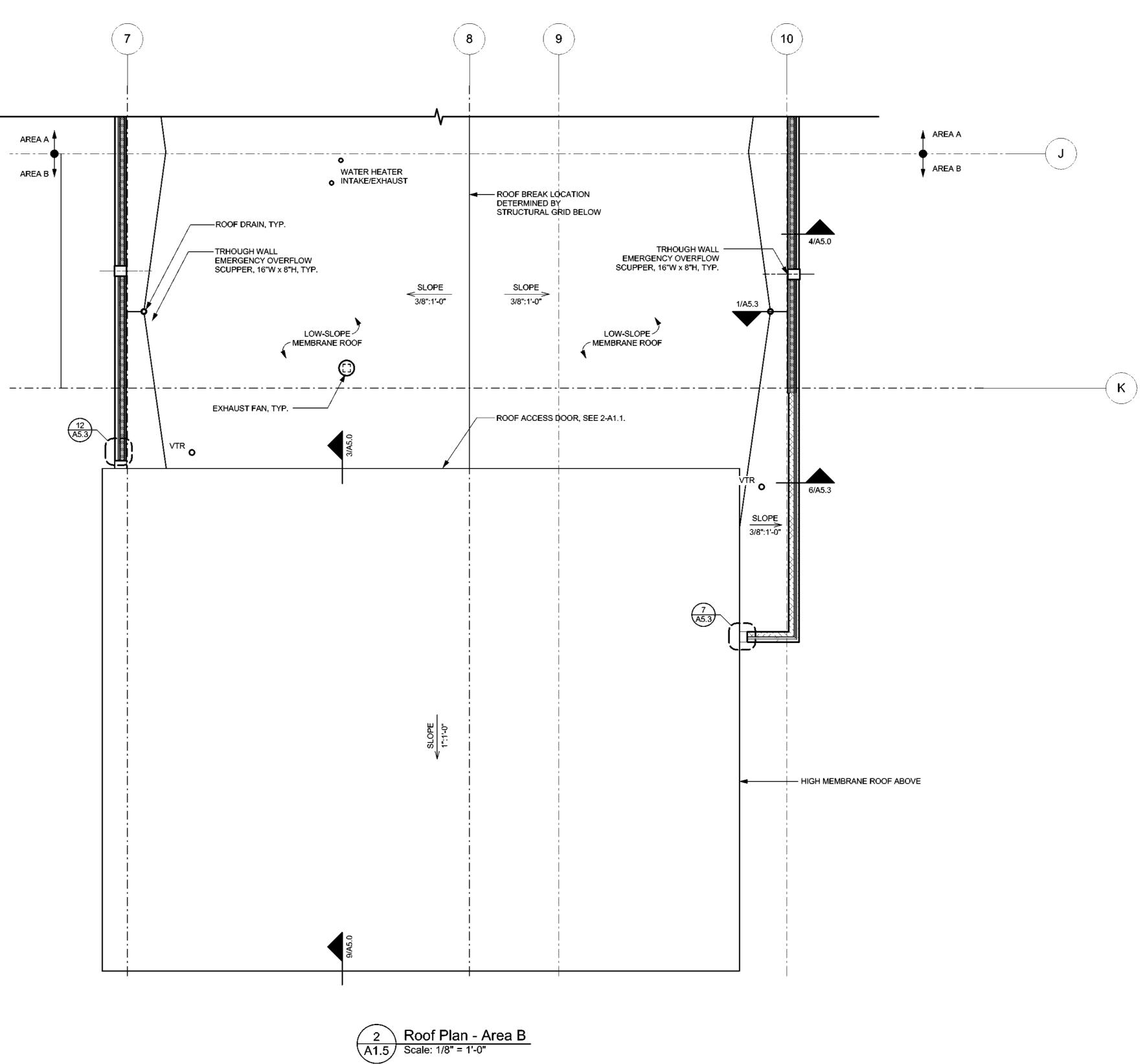
3 Roof Plan - Area A A1.4 Scale: 1/8" = 1'-0"

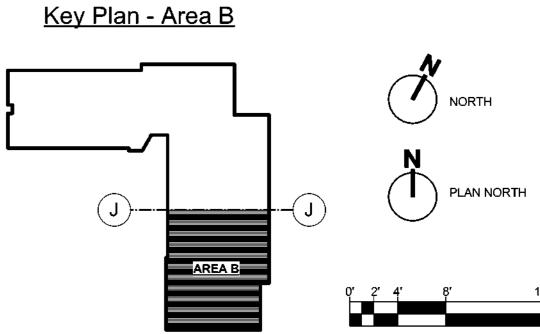
Key Plan - Area A

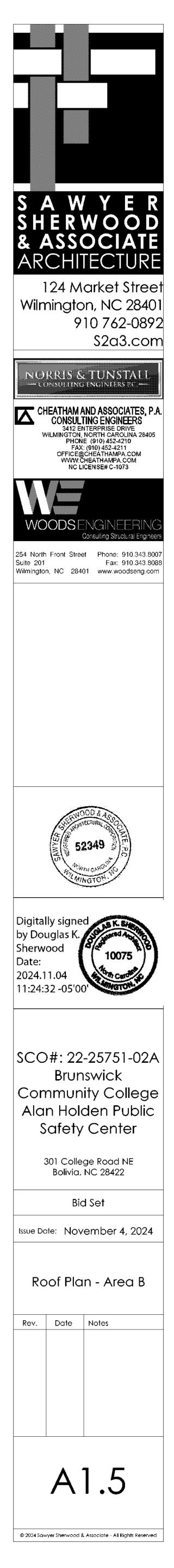


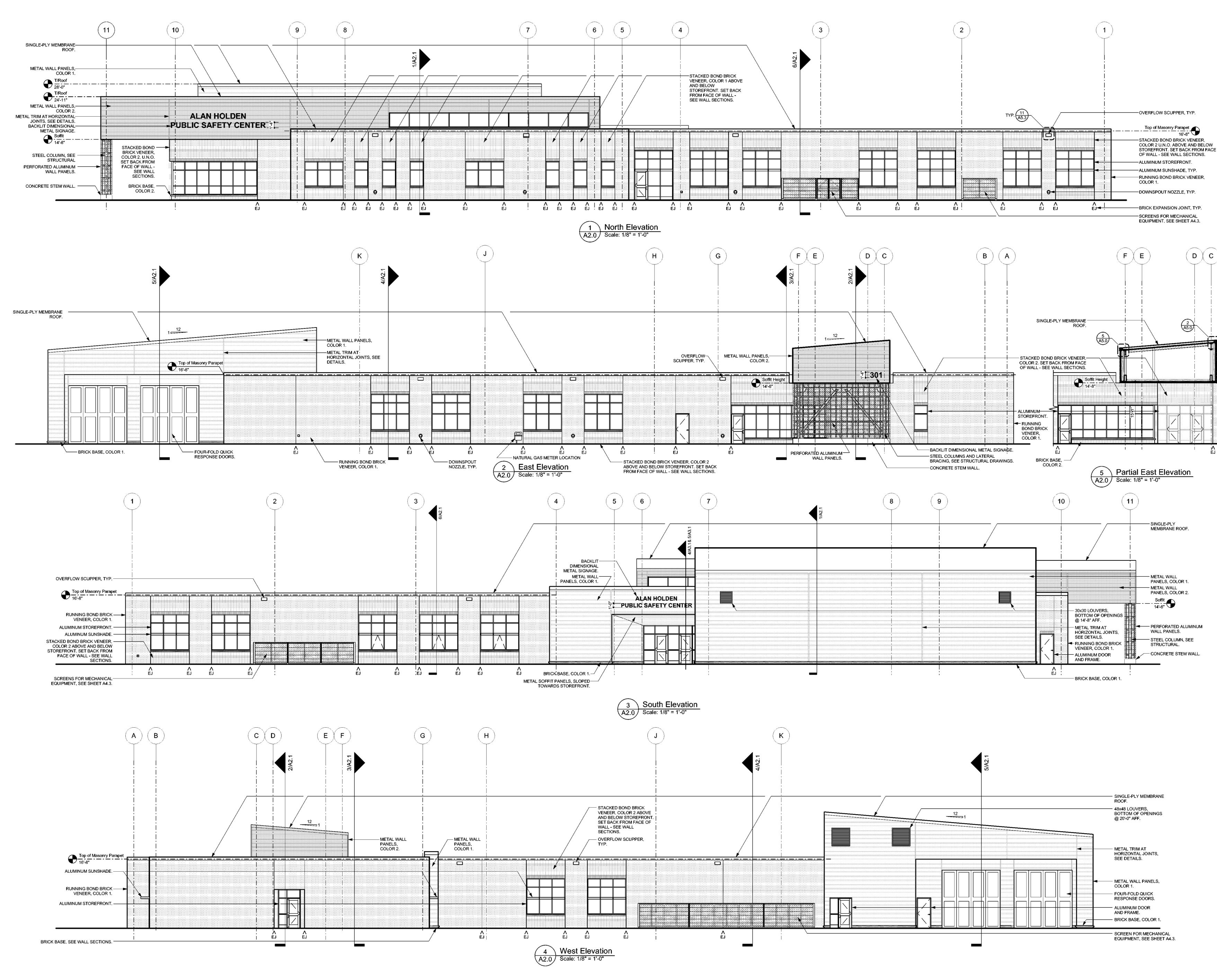
) NORTH

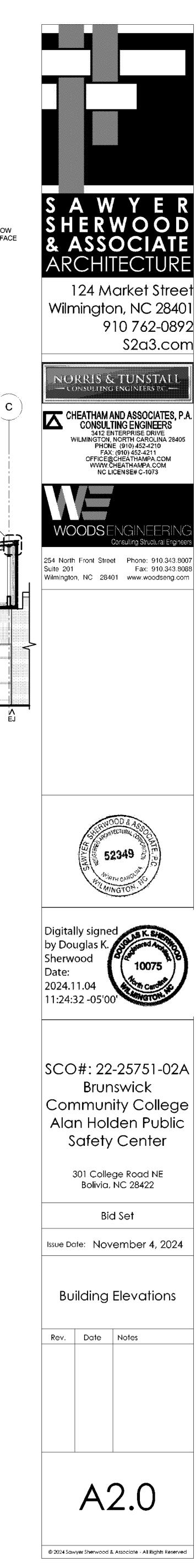
0' 2' 4'

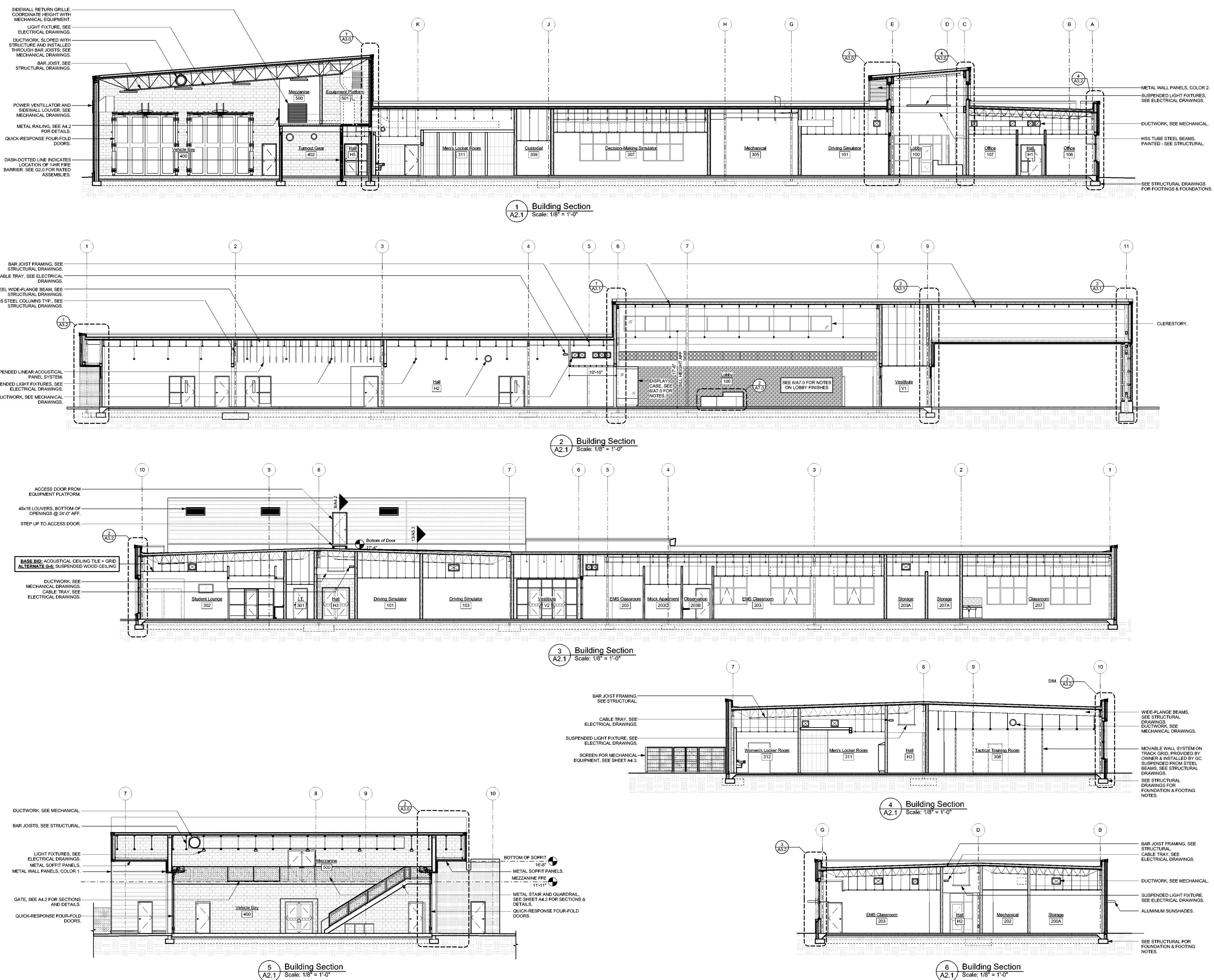


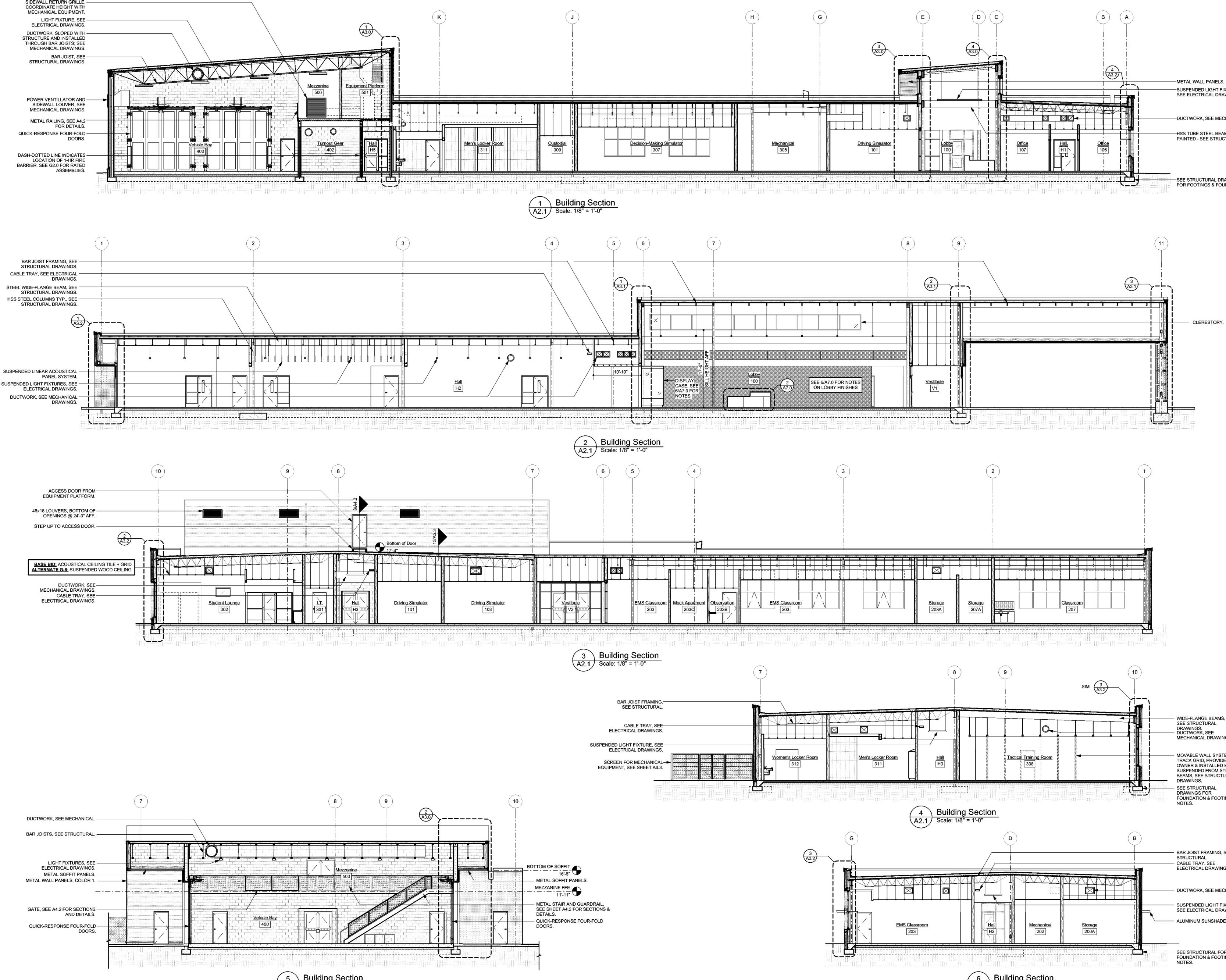


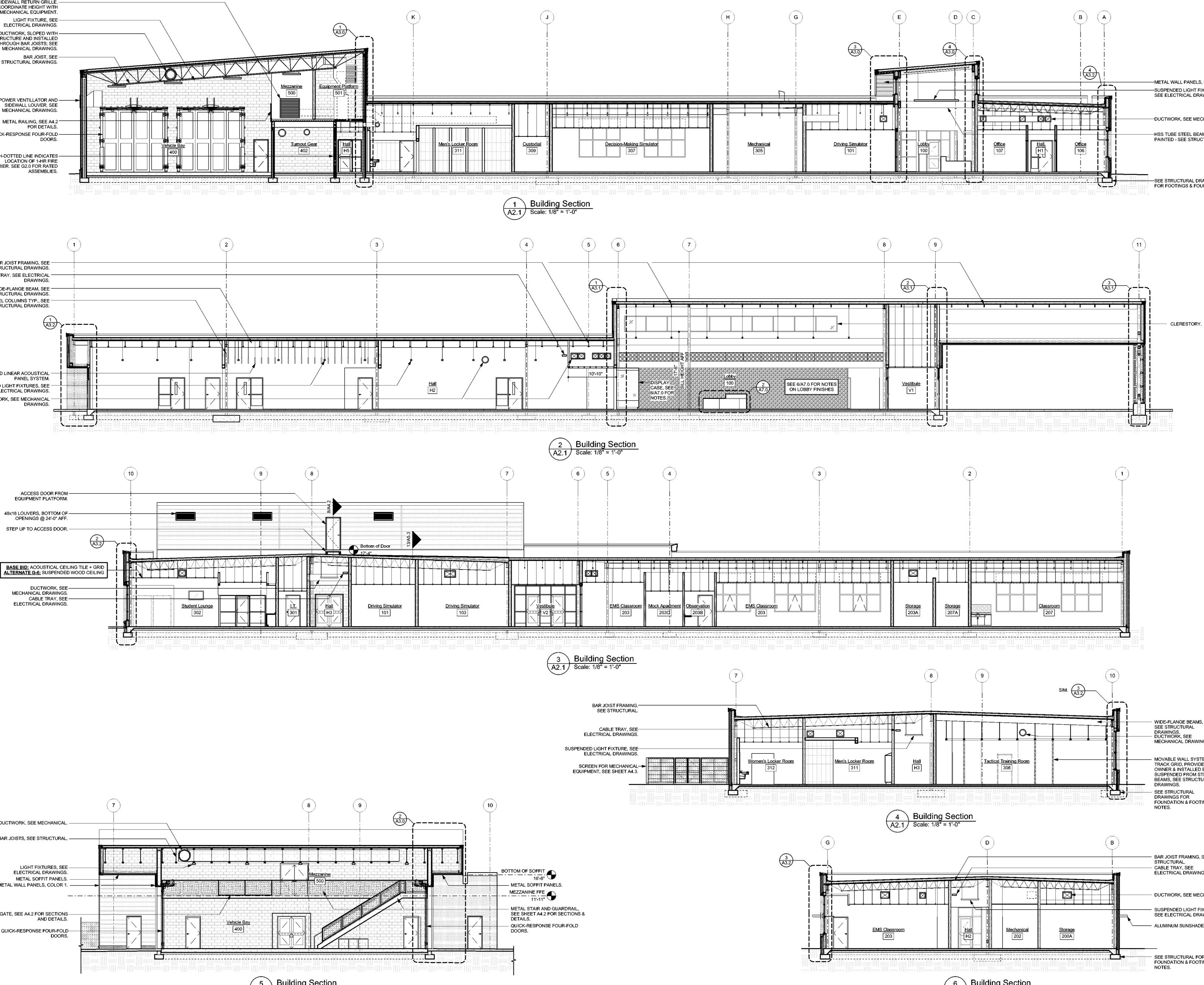


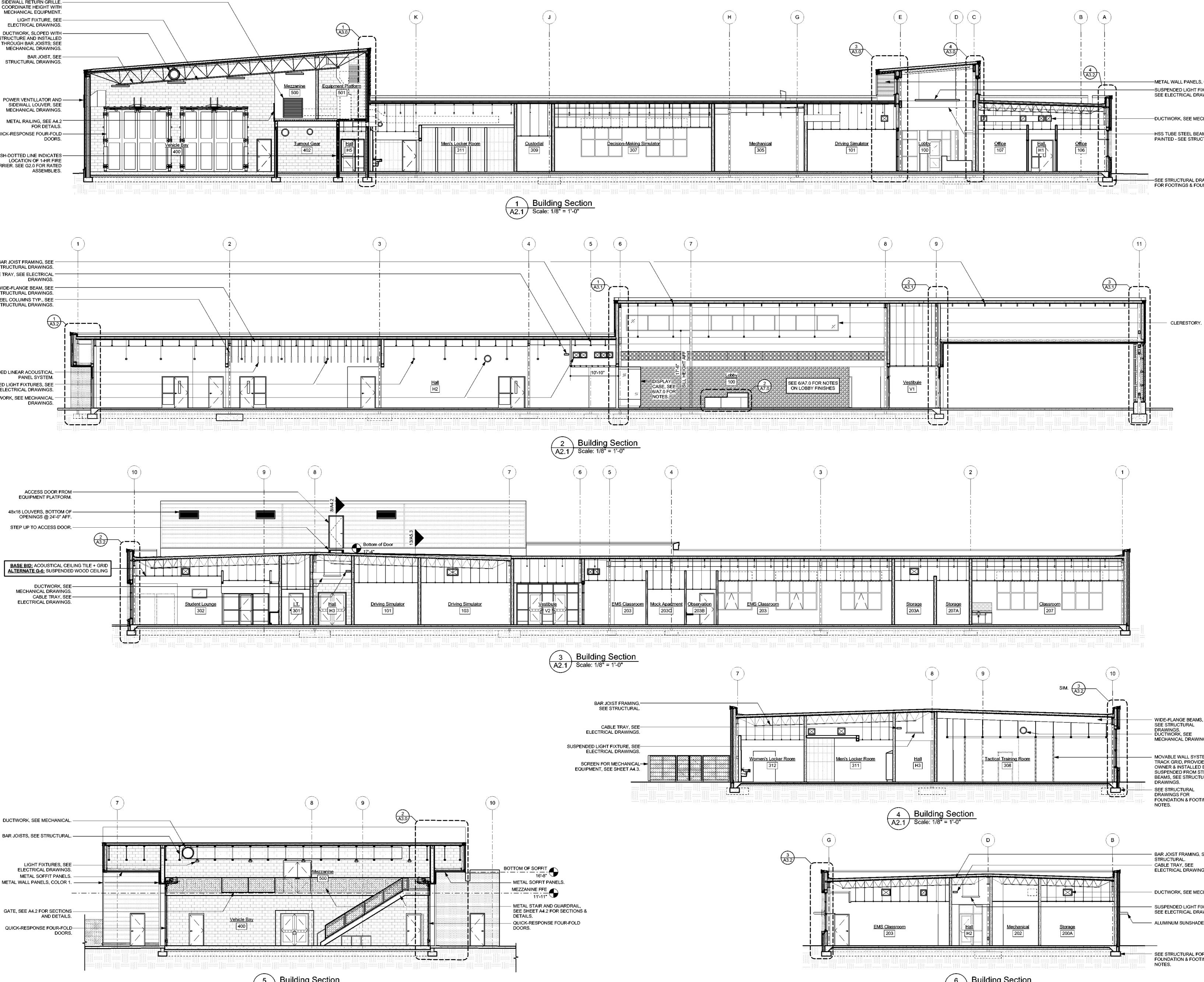






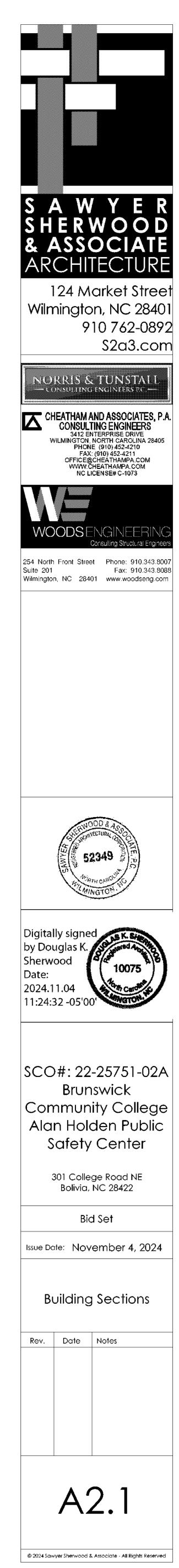


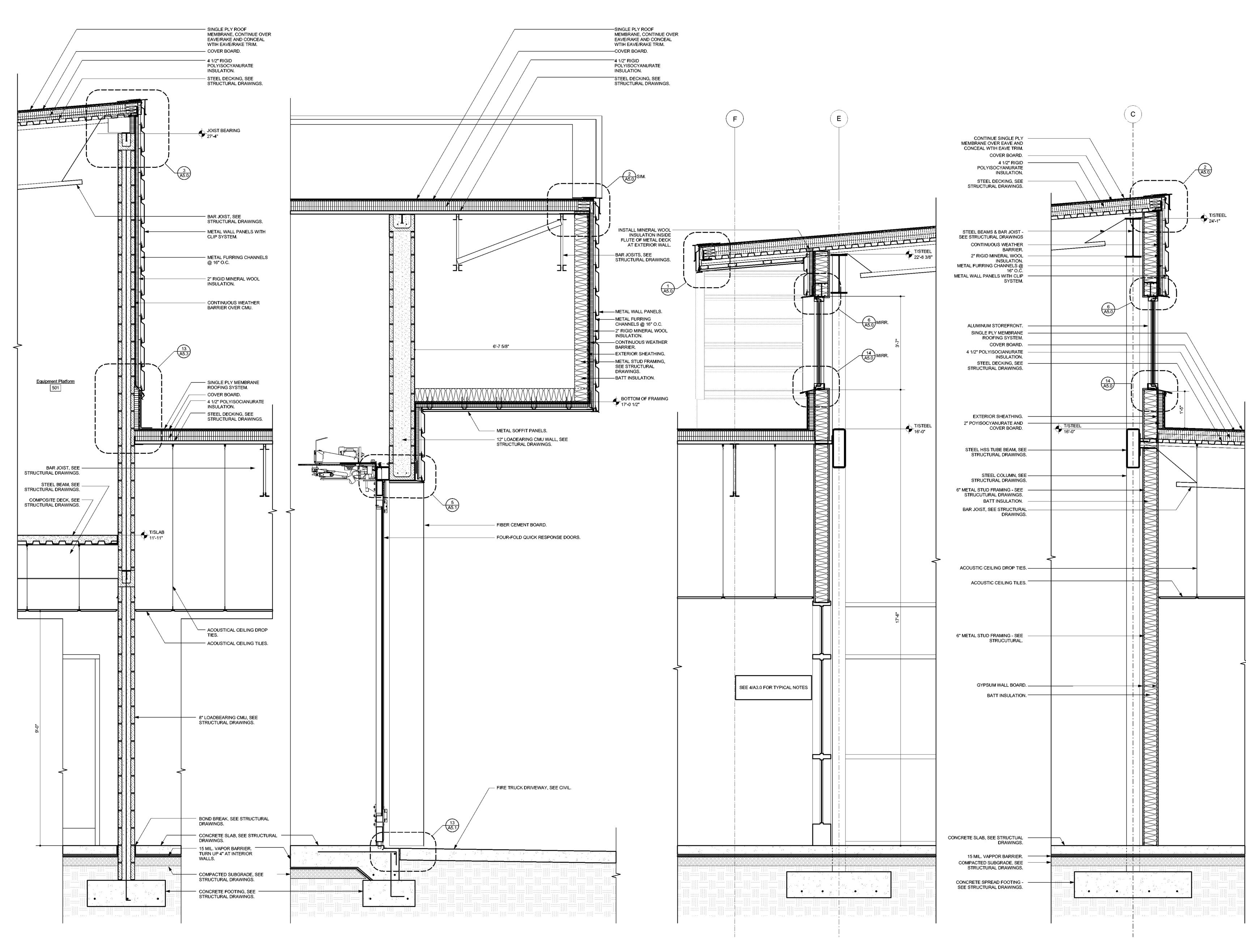


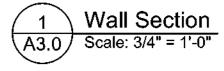




6 Building Section A2.1 Scale: 1/8" = 1'-0"

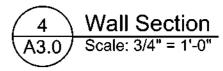




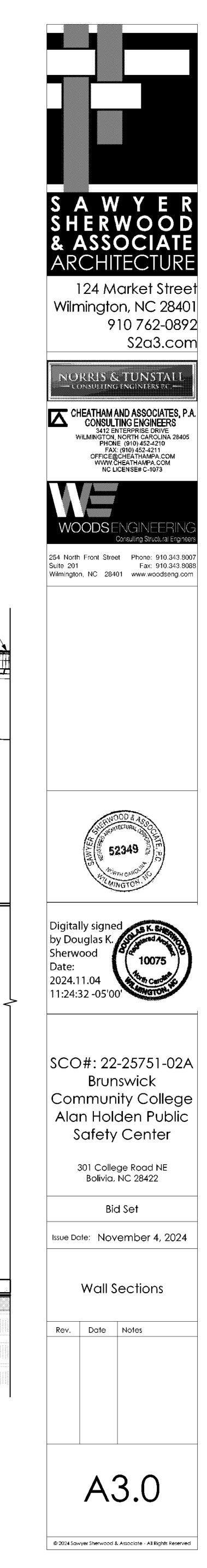


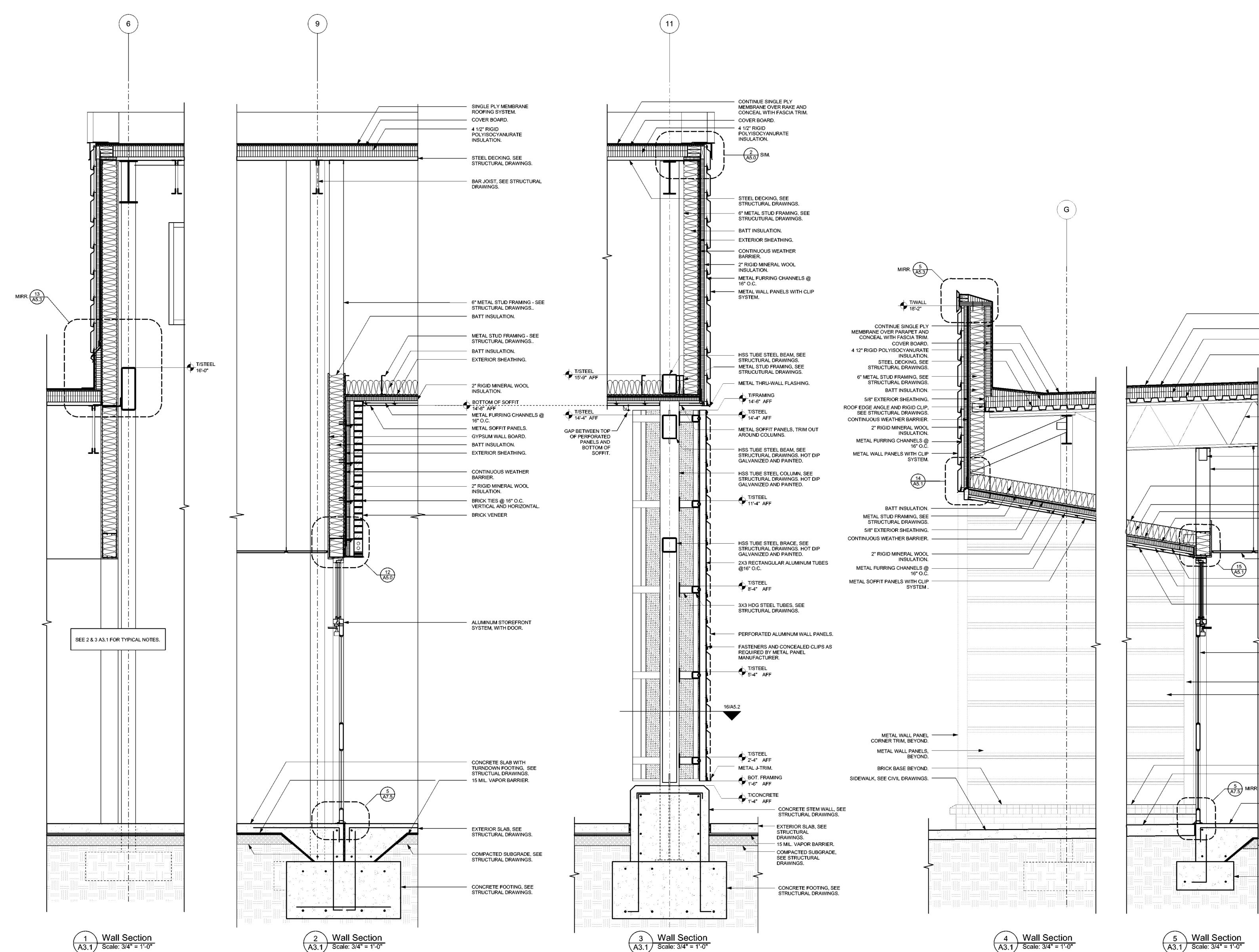






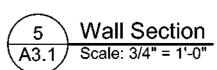
3 Wall Section A3.0 Scale: 3/4" = 1'-0"

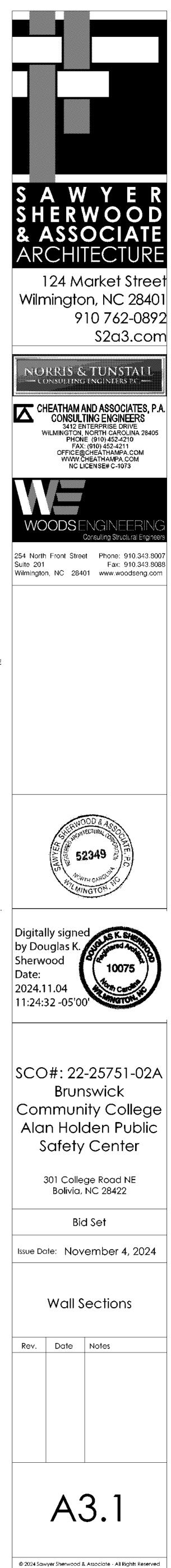












CONTINUOUS SINGLE PLY ROOF MEMBRANE. - COVER BOARD. _ 4 1/2" POLYISOCYANURATE

- STEEL DECKING, SEE STRUCTURAL DRAWINGS.

INSULATION.

BAR JOIST, SEE
 STRUCTURAL DRAWINGS.

- RIGID CLIP, STRUCTURAL DRAWINGS. - 6" METAL STUD FRAMING,

DRAWINGS. - METAL STUD FRAMING, SEE STRUCTURAL DRAWINGS.

SEE STRUCTURAL

BARRIER.

- BATT INSULATION. - 5/8" EXTERIOR SHEATHING. - CONTINUOUS WEATHER

- ACOUSTICAL CEILING TILE AND GRID. 2" RIGID INSULATION. - METAL FURRING CHANNELS @ 16" O.C. - METAL SOFFIT PANELS

WITH CLIP SYSTEM.

 ALUMINUM STOREFRONT SYSTEM, WITH DOOR.

- METAL PANEL CORNER - METAL WALL PANELS WITH CLIP SYSTEM, BEYOND.

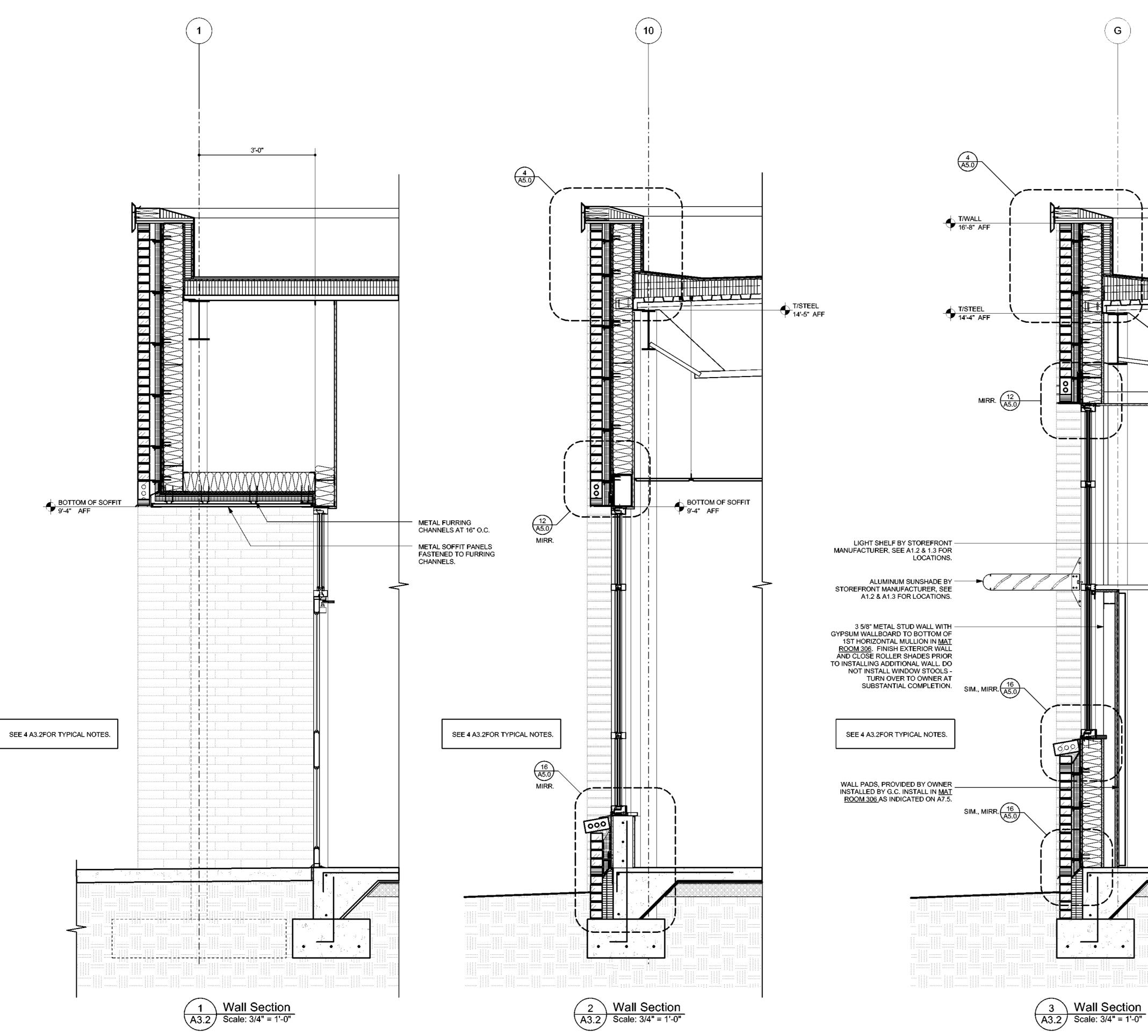
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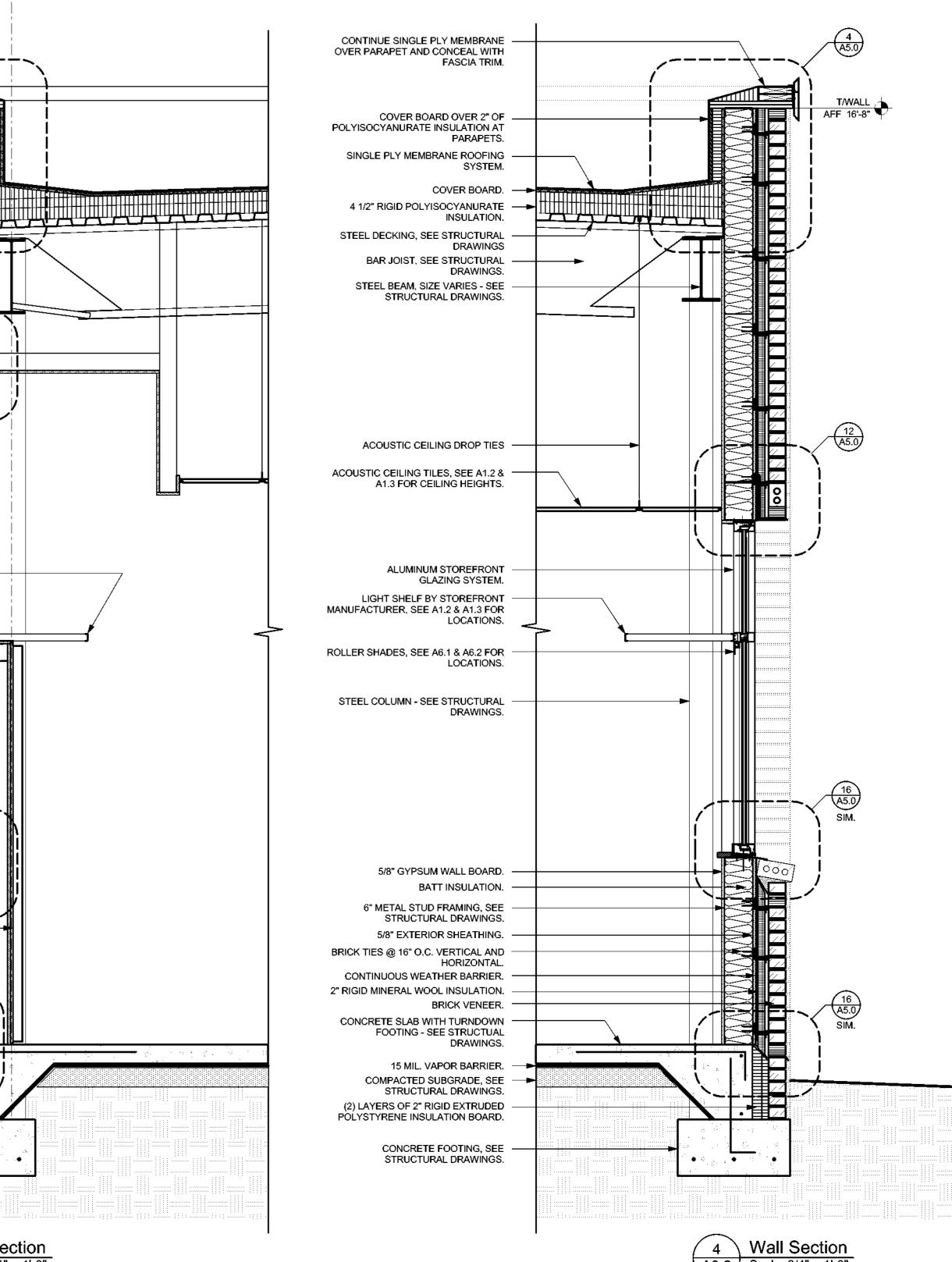
- BRICK BASE. - SIDEWALK, SEE CIVIL DRAWINGS.

CONCRETE SLAB WITH TURNDOWN FOOTING, SEE STRUCTURAL DRAWINGS.

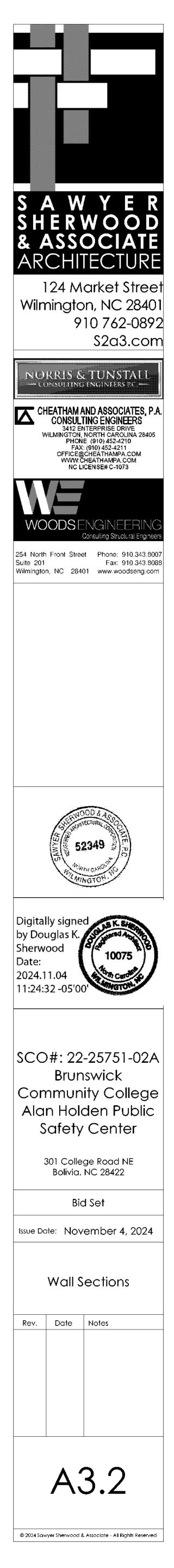
15 MIL. VAPOR BARRIER. - COMPACTED SUBGRADE, SEE STRUCTURAL DRAWINGS.

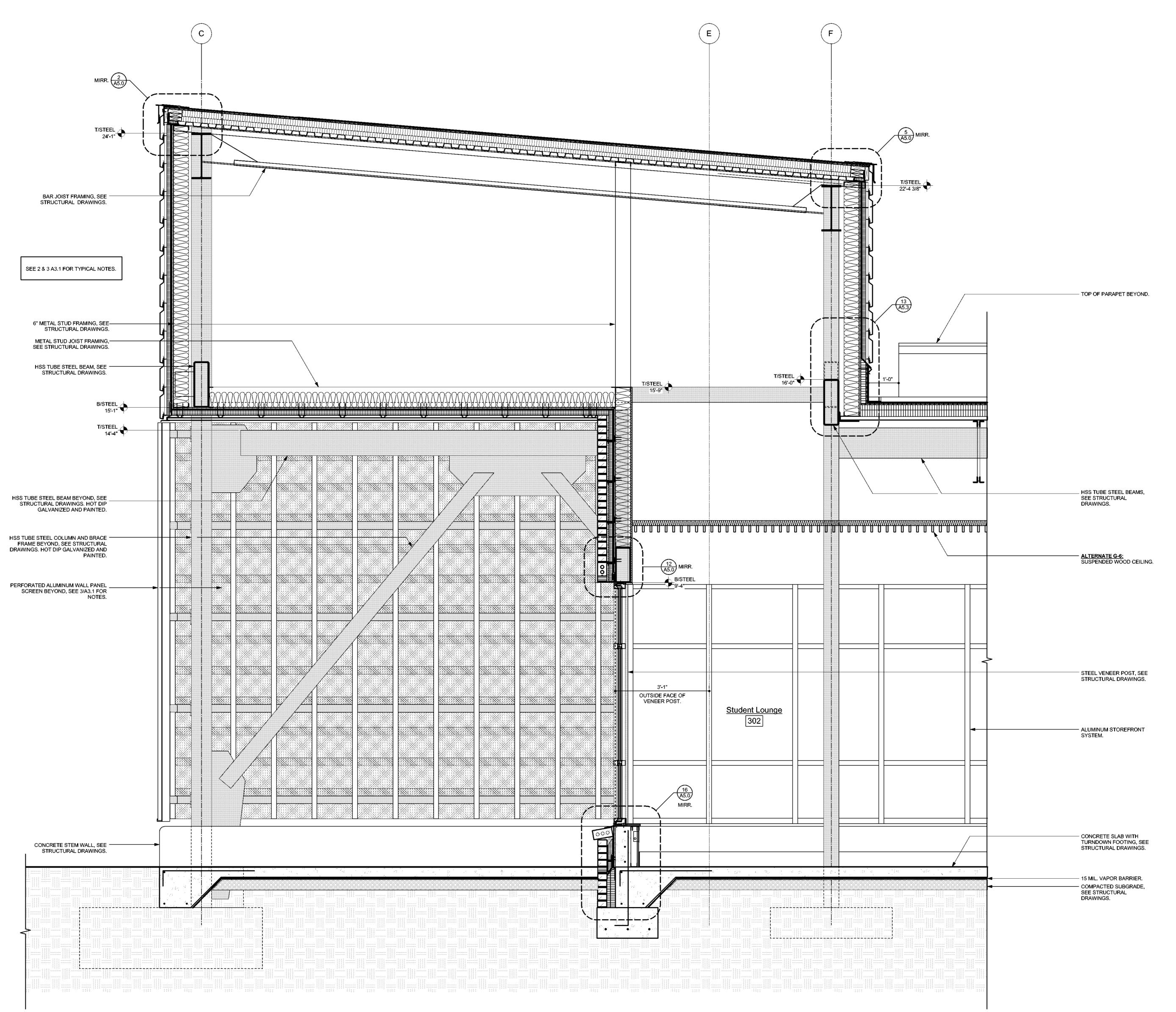
> CONCRETE FOOTING, SEE STRUCTURAL DRAWINGS.

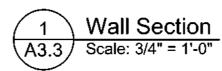


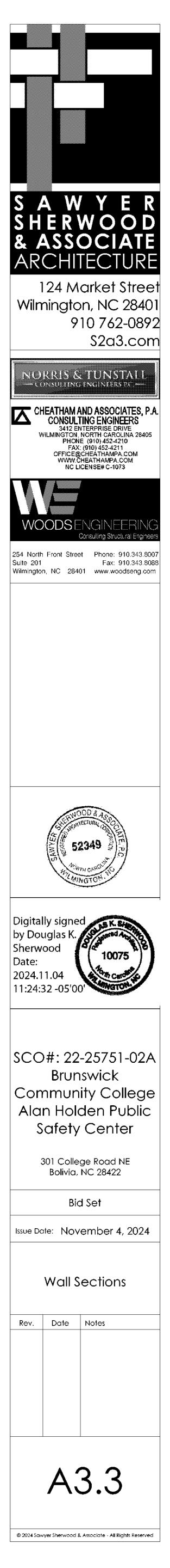


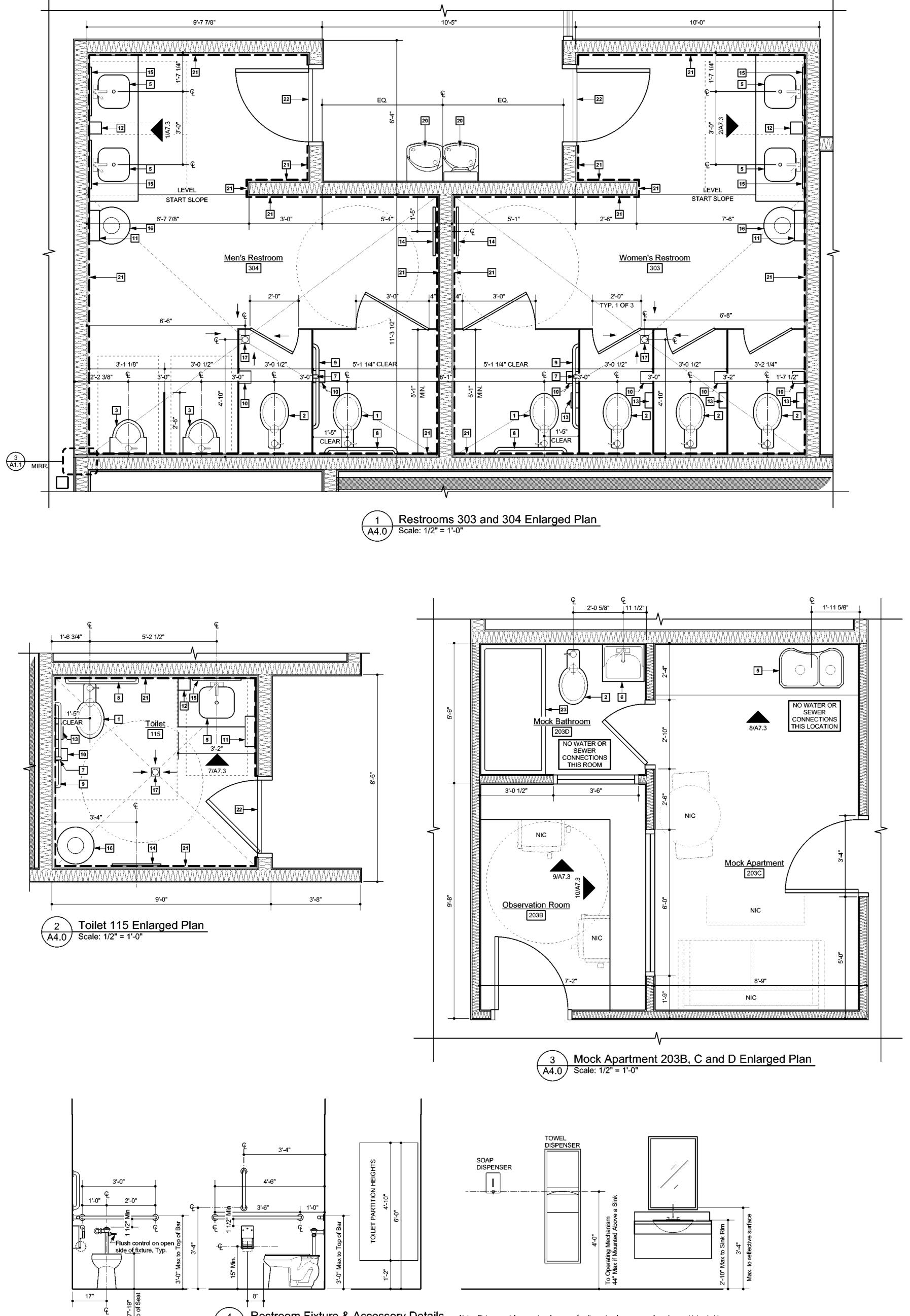
4 Wall Section A3.2 Scale: 3/4" = 1'-0"

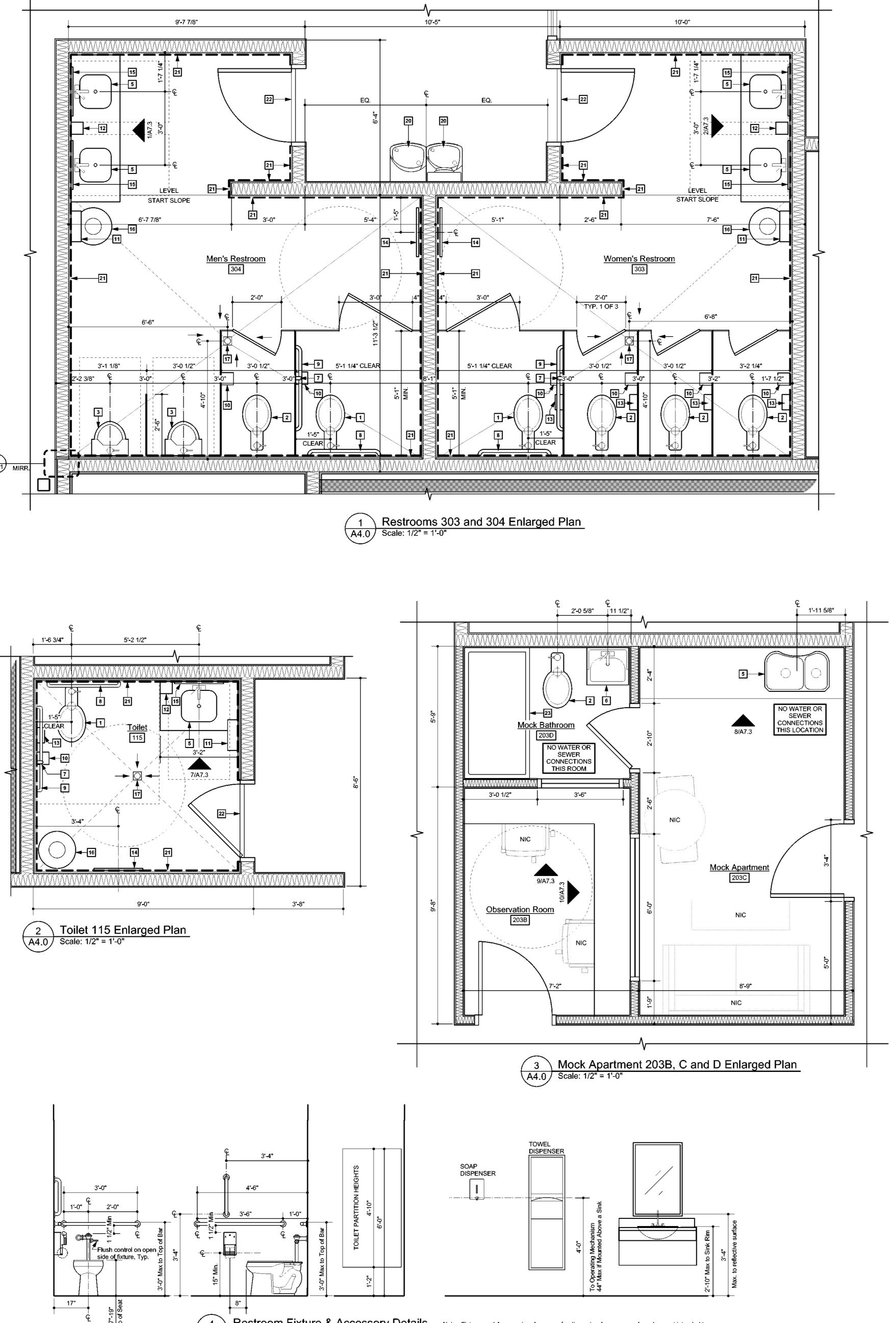


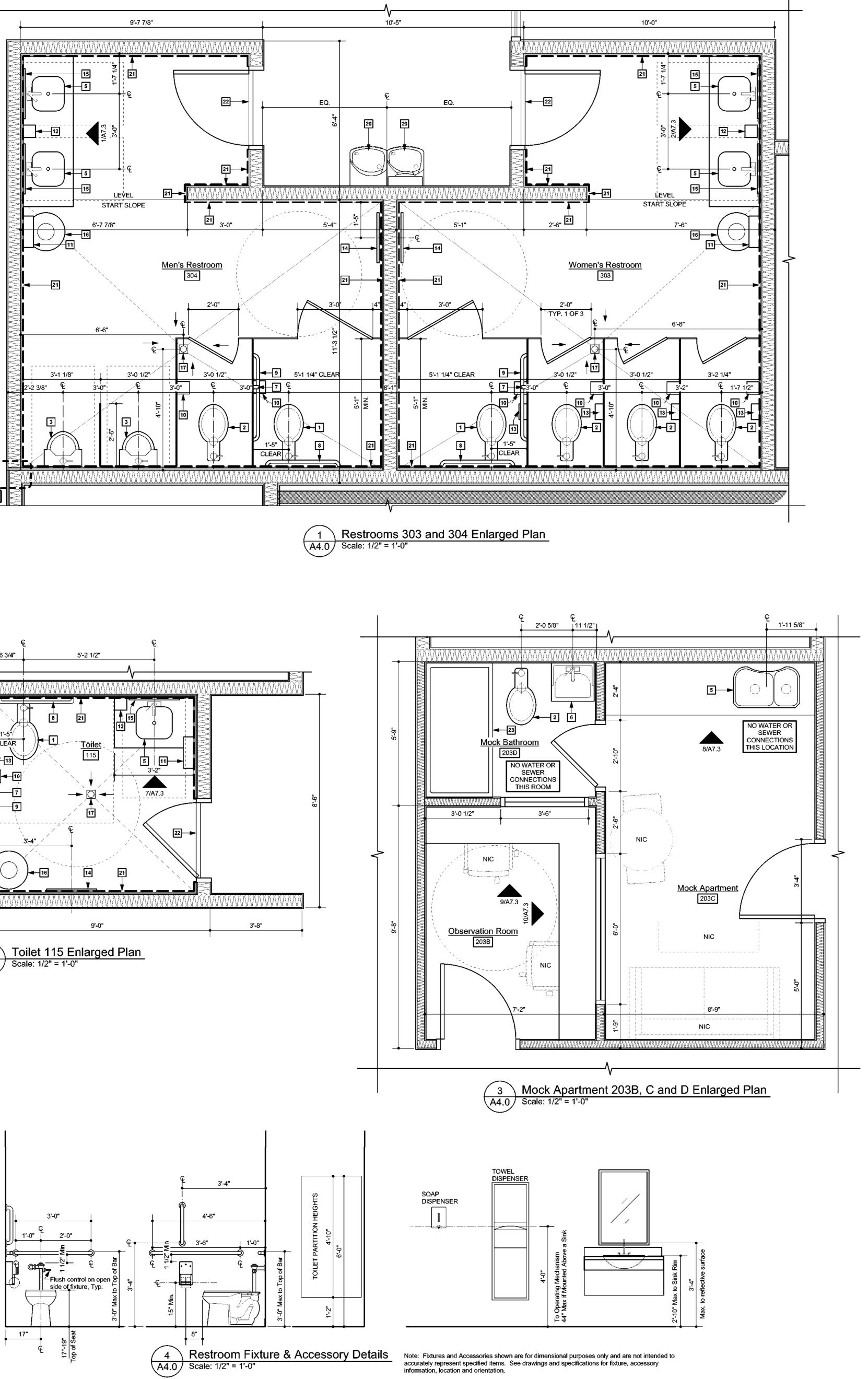






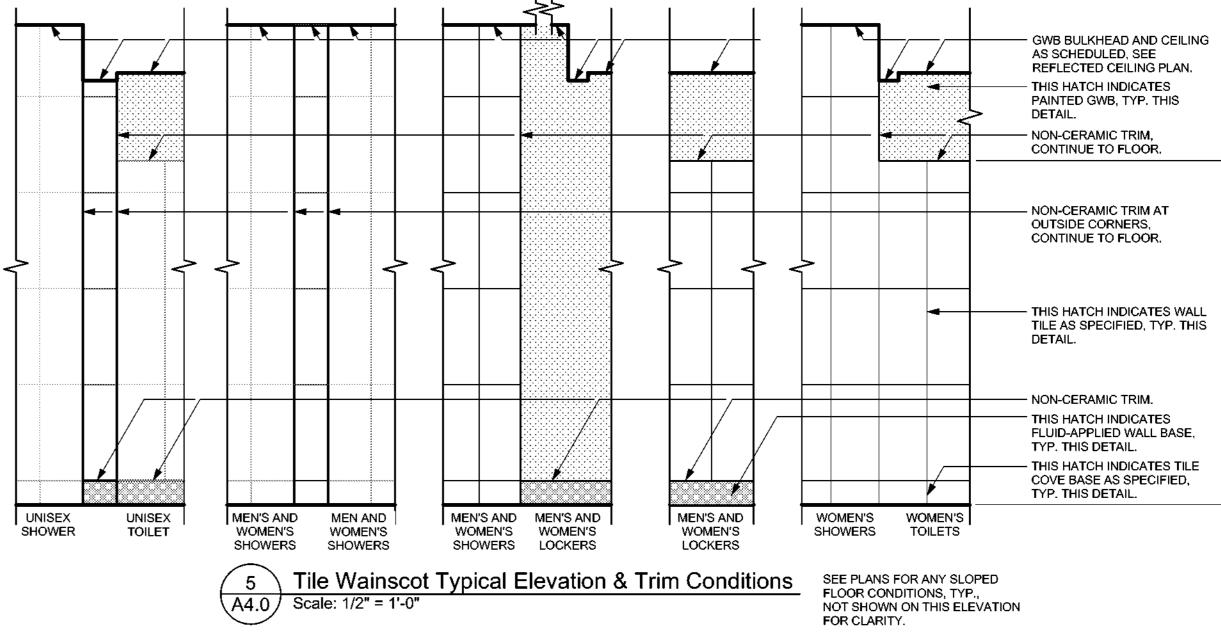


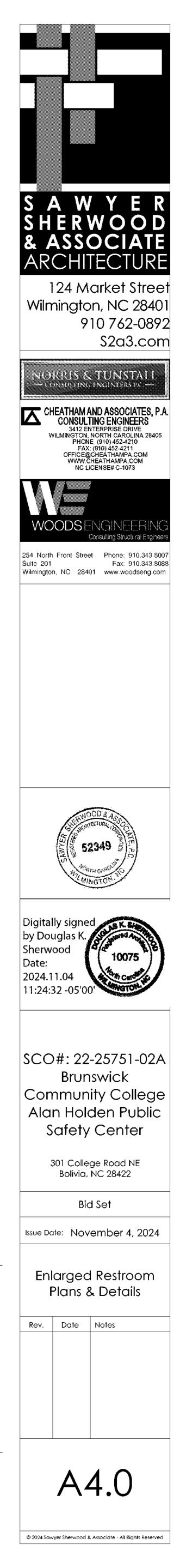




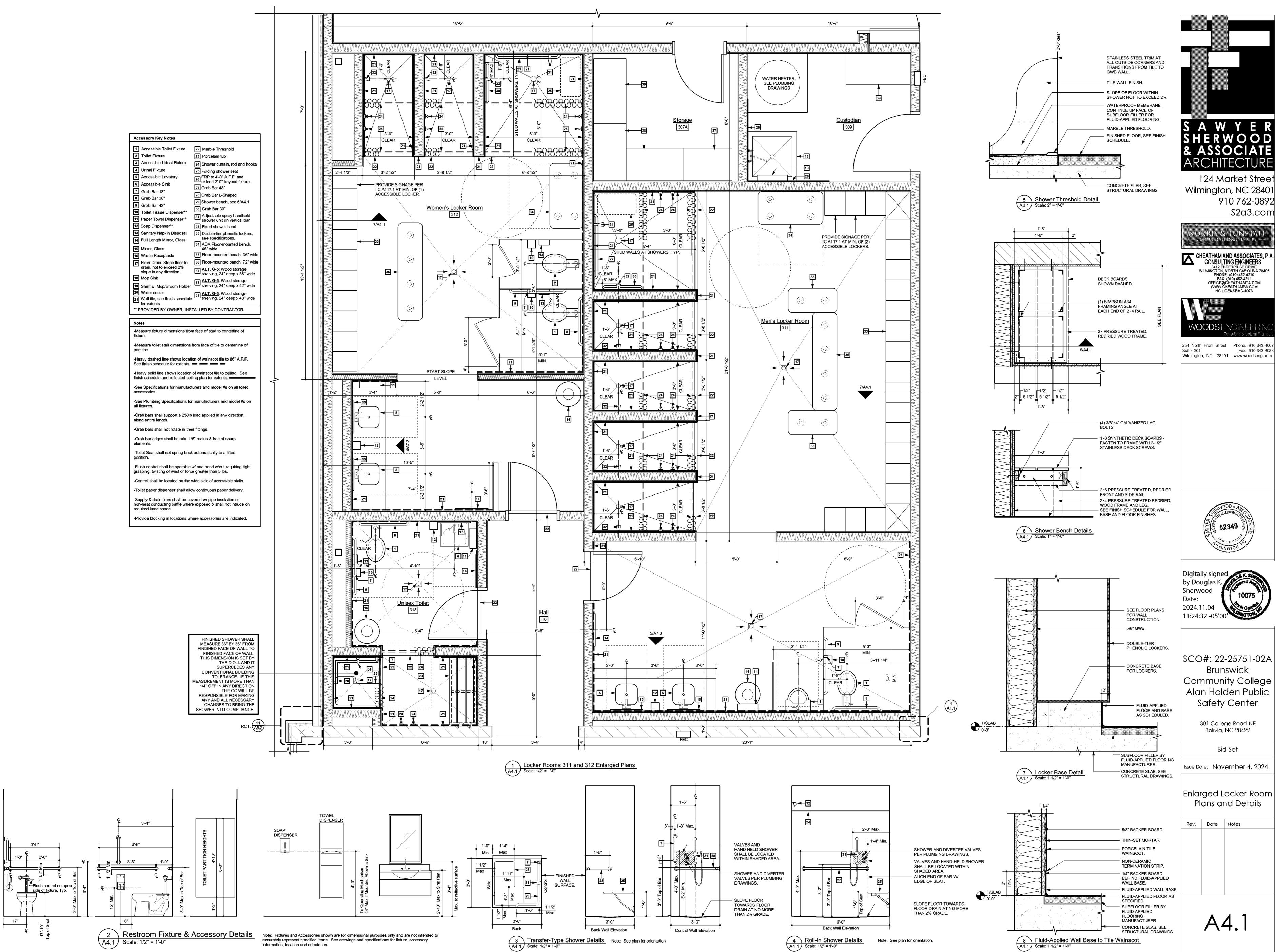
4Urinal Fixture25Folding shower seat5Accessible Lavatory26FRP to 4'-0" A.F.F.6Accessible Sink27Grab Bar 48"7Grab Bar 18"28Grab Bar 48"8Grab Bar 36"29Shower bench, see 4/A4.19Grab Bar 42"30Grab Bar 30"10Toilet Tissue Dispenser**31Adjustable spray handheld shower unit on vertical bar11Paper Towel Dispenser**32Fixed shower head13Sanitary Napkin Disposal33Double-tier phenolic lockers, see specifications.14Full Length Mirror, Glass34ADA Floor-mounted bench, 48" wide16Waste Receptacle35Floor-mounted bench, 36" wide	Accessory Key Notes	
 See finish schedule for extents. — — — — — — — — — — — — — — — — — — —	 Accessible Toilet Fixture Toilet Fixture Accessible Urinal Fixture Urinal Fixture Accessible Lavatory Accessible Sink Grab Bar 18" Grab Bar 36" Grab Bar 36" Grab Bar 42" Toilet Tissue Dispenser** Soap Dispenser** Soap Dispenser** Soanitary Napkin Disposal Full Length Mirror, Glass Mirror, Glass Mirror, Glass Mop Sink Shelf w. Mop/Broom Holder Water cooler Walt tile, see finish schedule for extents ** PROVIDED BY OWNER, INST 	 23 Porcelain tub 24 Shower curtain, rod and hooks 25 Folding shower seat 26 FRP to 4'-0" A.F.F. 27 Grab Bar 48" 28 Grab Bar L-Shaped 29 Shower bench, see 4/A4.1 30 Grab Bar 30" 31 Adjustable spray handheld shower unit on vertical bar 32 Fixed shower head 33 Double-tier phenolic lockers, see specifications. 34 ADA Floor-mounted bench, 48" wide 35 Floor-mounted bench, 72" wide 36 Floor-mounted bench, 72" wide 37 <u>ALT. G-5</u>: Wood storage shelving, 24" deep x 42" wide 39 <u>ALT. G-5</u>: Wood storage shelving, 24" deep x 48" wide 39 <u>ALT. G-5</u>: Wood storage shelving, 24" deep x 48" wide
 See Plumbing Specifications for manufacturers and model #s on all fixtures. Grab bars shall support a 250lb load applied in any direction, along entire length. Grab bars shall not rotate in their fittings. Grab bar edges shall be min. 1/8" radius & free of sharp elements. Toilet Seat shall not spring back automatically to a lifted position. Flush control shall be operable w/ one hand w/out requiring tight grasping, twisting of wrist or force greater than 5 lbs. Control shall be located on the wide side of accessible stalls. Toilet paper dispenser shall allow continuous paper delivery. Supply & drain lines shall be covered w/ pipe insulation or non-heat conducting baffle where exposed & shall not intrude on 	 partition. Heavy dashed line shows location See finish schedule for extents. Heavy solid line shows location finish schedule and reflected ceil See Specifications for manufactorial 	on of wainscot tile to 86" A.F.F. of wainscot tile to ceiling. See ing plan for extents.
 -Grab bars shall not rotate in their fittings. -Grab bar edges shall be min. 1/8" radius & free of sharp elements. -Toilet Seat shall not spring back automatically to a lifted position. -Flush control shall be operable w/ one hand w/out requiring tight grasping, twisting of wrist or force greater than 5 lbs. -Control shall be located on the wide side of accessible stalls. -Toilet paper dispenser shall allow continuous paper delivery. -Supply & drain lines shall be covered w/ pipe insulation or non-heat conducting baffle where exposed & shall not intrude on 	-See Plumbing Specifications for all fixtures. -Grab bars shall support a 250lb	
 position. Flush control shall be operable w/ one hand w/out requiring tight grasping, twisting of wrist or force greater than 5 lbs. Control shall be located on the wide side of accessible stalls. Toilet paper dispenser shall allow continuous paper delivery. Supply & drain lines shall be covered w/ pipe insulation or non-heat conducting baffle where exposed & shall not intrude on 	-Grab bars shall not rotate in the -Grab bar edges shall be min. 1/8	-
 Toilet paper dispenser shall allow continuous paper delivery. Supply & drain lines shall be covered w/ pipe insulation or non-heat conducting baffle where exposed & shall not intrude on 	Position.Flush control shall be operable v grasping, twisting of wrist or force	w/ one hand w/out requiring tight e greater than 5 lbs.
required knee space.		

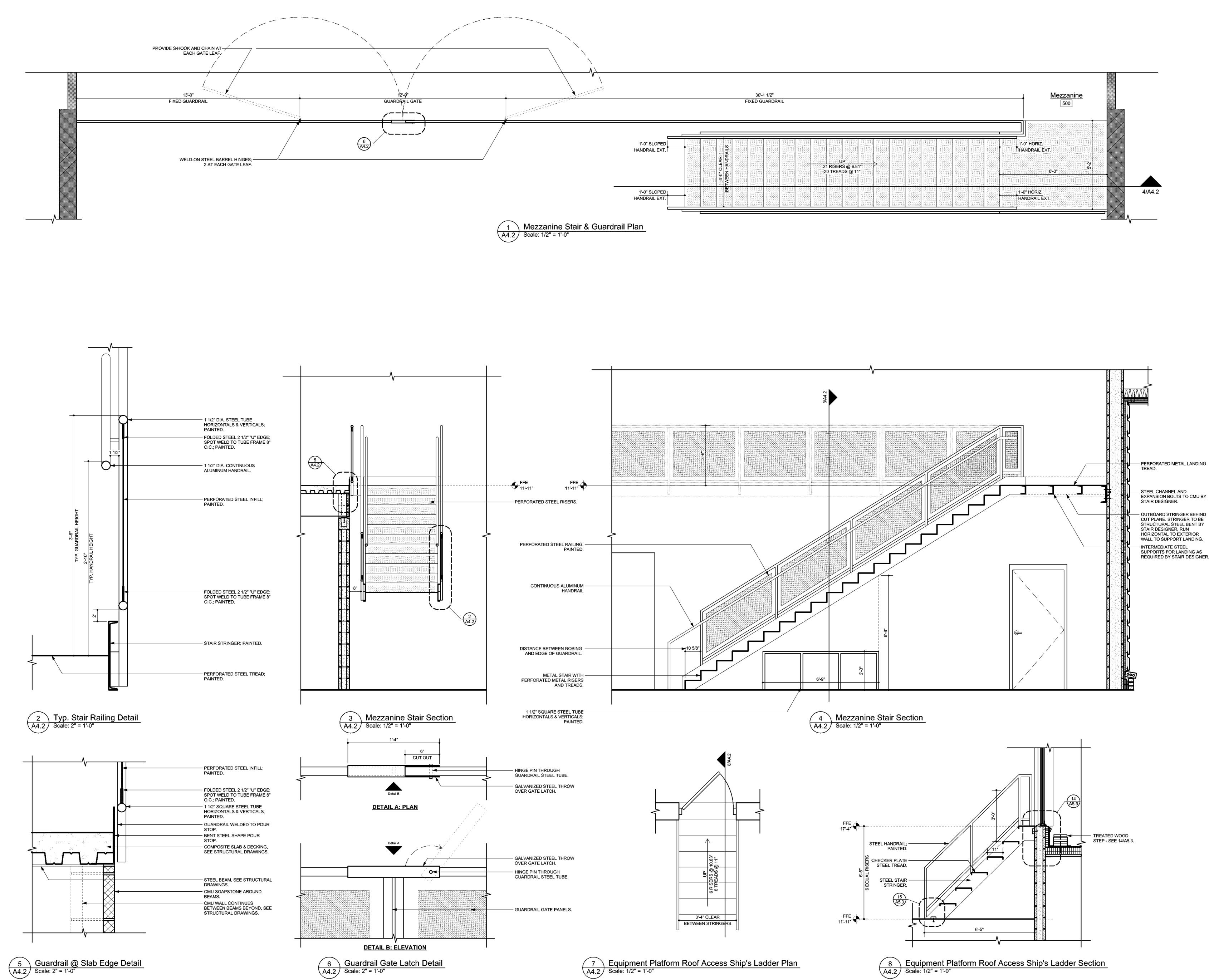
-Provide blocking in locations where accessories are indicated.



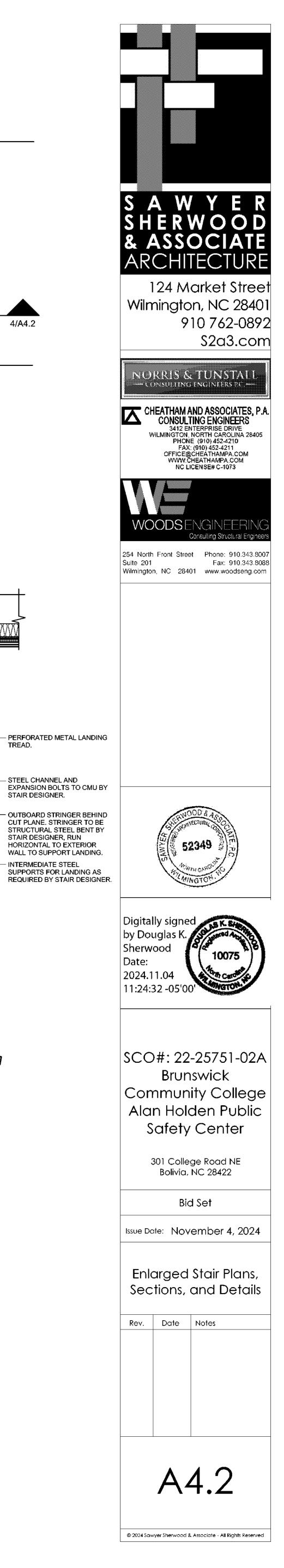


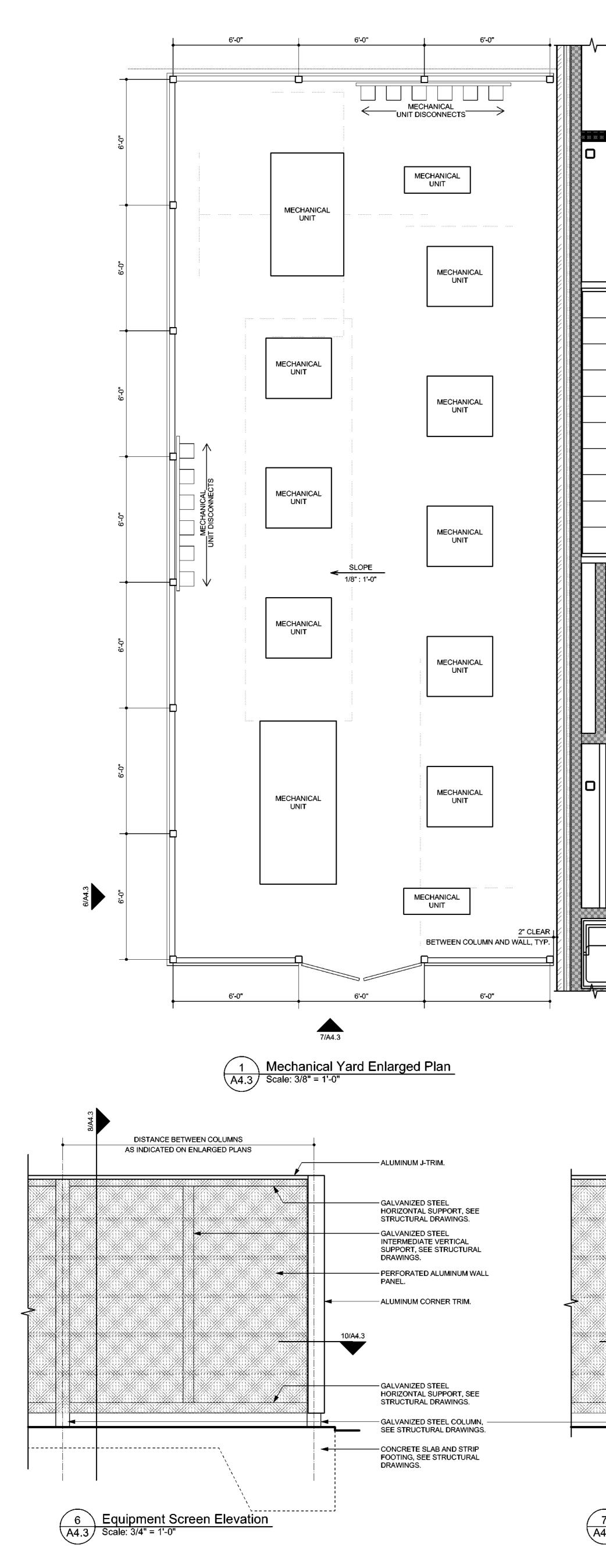
Accessory Key Notes 1 Accessible Toilet Fixture 22 Marble Threshold Toilet Fixture 23 Porcelain tub Accessible Urinal Fixture 24 Shower curtain, rod and hooks 4 Urinal Fixture 25 Folding shower seat FRP to 4'-0" A.F.F. and extend 2'-0" beyond fixture. Accessible Lavatory 6 Accessible Sink 27 Grab Bar 48" 7 Grab Bar 18" 28 Grab Bar L-Shaped 8 Grab Bar 36" 29 Shower bench, see 6/A4.1 9 Grab Bar 42" 30 Grab Bar 30" 기 Toilet Tissue Dispenser* Adjustable spray handheld 11 Paper Towel Dispenser* shower unit on vertical bar 12 Soap Dispenser** 32 Fixed shower head 13 Sanitary Napkin Disposal 33 Double-tier phenolic lockers, see specifications. 14 Full Length Mirror, Glass 34 ADA Floor-mounted bench, 15 Mirror, Glass 48" wide 35 Floor-mounted bench, 36" wide 16 Waste Receptacle 17 Floor Drain. Slope floor to 36 Floor-mounted bench, 72" wide drain, not to exceed 2% 37 <u>ALT. G-5</u>: Wood storage shelving, 24" deep x 36" wide slope in any direction. 18 Mop Sink 38 ALT. G-5: Wood storage 19 Shelf w. Mop/Broom Holder shelving, 24" deep x 42" wide Image: cooler ** PROVIDED BY OWNER, INSTALLED BY CONTRACTOR. -Measure fixture dimensions from face of stud to centerline of fixture. -Measure toilet stall dimensions from face of tile to centerline of partition. -Heavy dashed line shows location of wainscot tile to 86" A.F.F. See finish schedule for extents. -Heavy solid line shows location of wainscot tile to ceiling. See finish schedule and reflected ceiling plan for extents. -See Specifications for manufacturers and model #s on all toilet accessories. -See Plumbing Specifications for manufacturers and model #s on -Grab bars shall support a 250lb load applied in any direction, along entire length. -Grab bars shall not rotate in their fittings. -Grab bar edges shall be min. 1/8" radius & free of sharp elements. -Toilet Seat shall not spring back automatically to a lifted position. -Flush control shall be operable w/ one hand w/out requiring tight grasping, twisting of wrist or force greater than 5 lbs. -Control shall be located on the wide side of accessible stalls. -Toilet paper dispenser shall allow continuous paper delivery. -Supply & drain lines shall be covered w/ pipe insulation or non-heat conducting baffle where exposed & shall not intrude on required knee space. -Provide blocking in locations where accessories are indicated. FINISHED SHOWER SHALL MEASURE 36" BY 36" FROM FINISHED FACE OF WALL TO FINISHED FACE OF WALL THIS DIMENSION IS SET BY THE D.O.J. AND IT SUPERCEDES ANY CONVENTIONAL BUILDING TOLERANCE. IF THIS MEASUREMENT IS MORE THAN 1/4" OFF IN ANY DIRECTION THE GC WILL BE

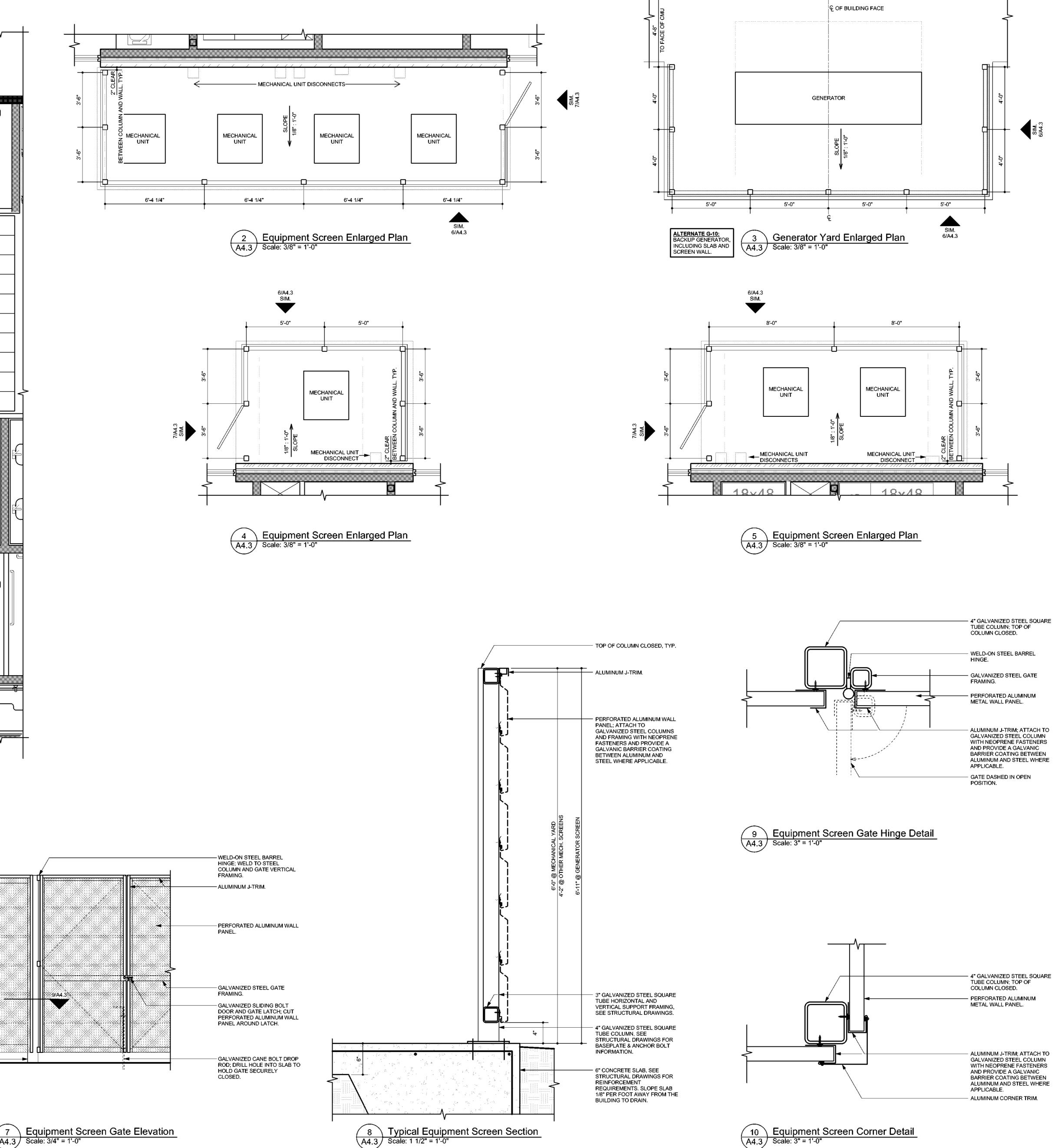


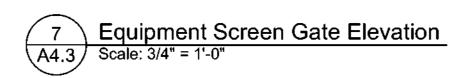


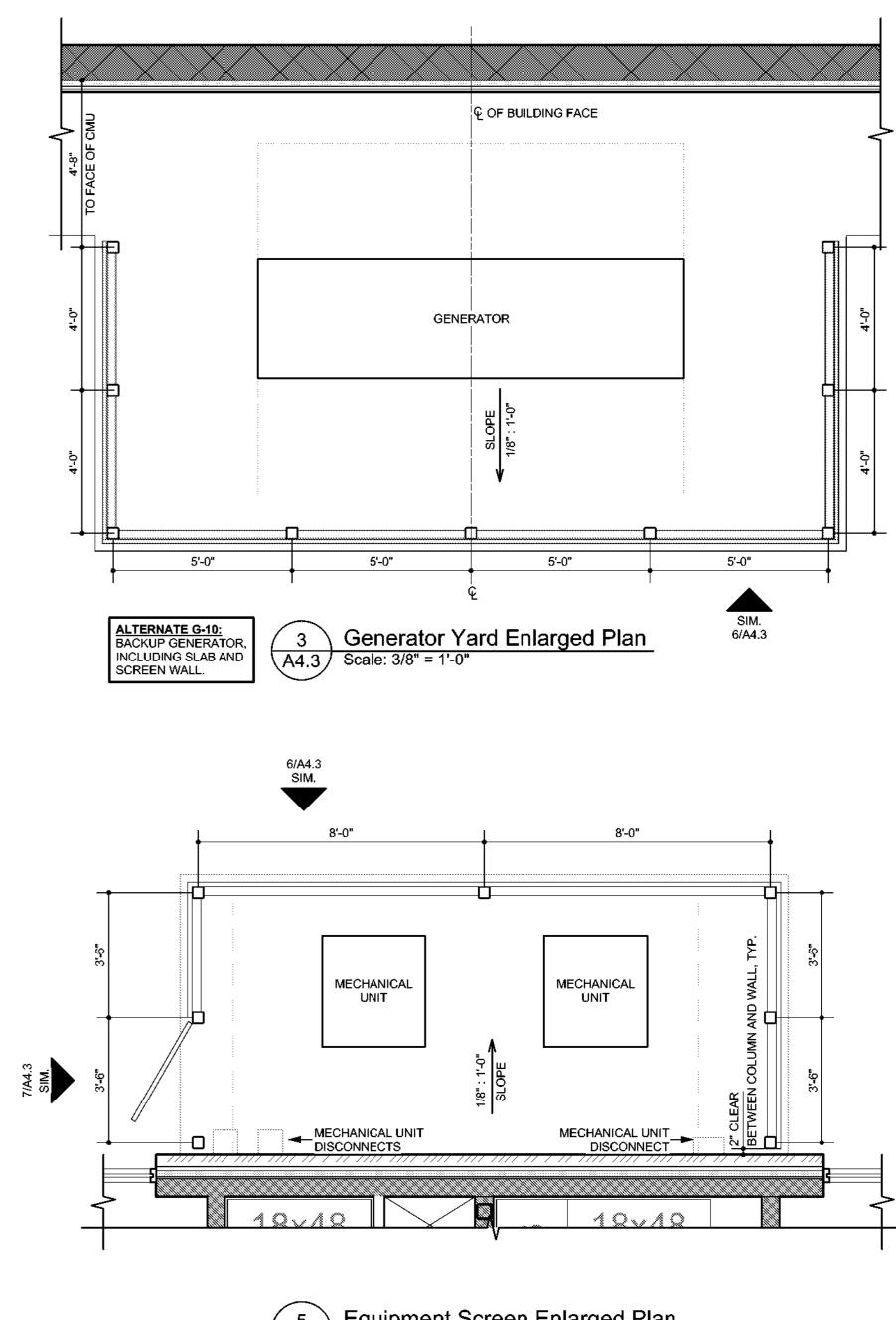
30'-1 1/2" FIXED GUARDRAIL	Mezzanine 500	
11-00 HAN 21 RISERS @ 6.81" 20 TREADS @ 11"	" HORIZ. NDRAIL EXT	
α μέτας μ Τα πότας μέτας μ	4/A4.2	•





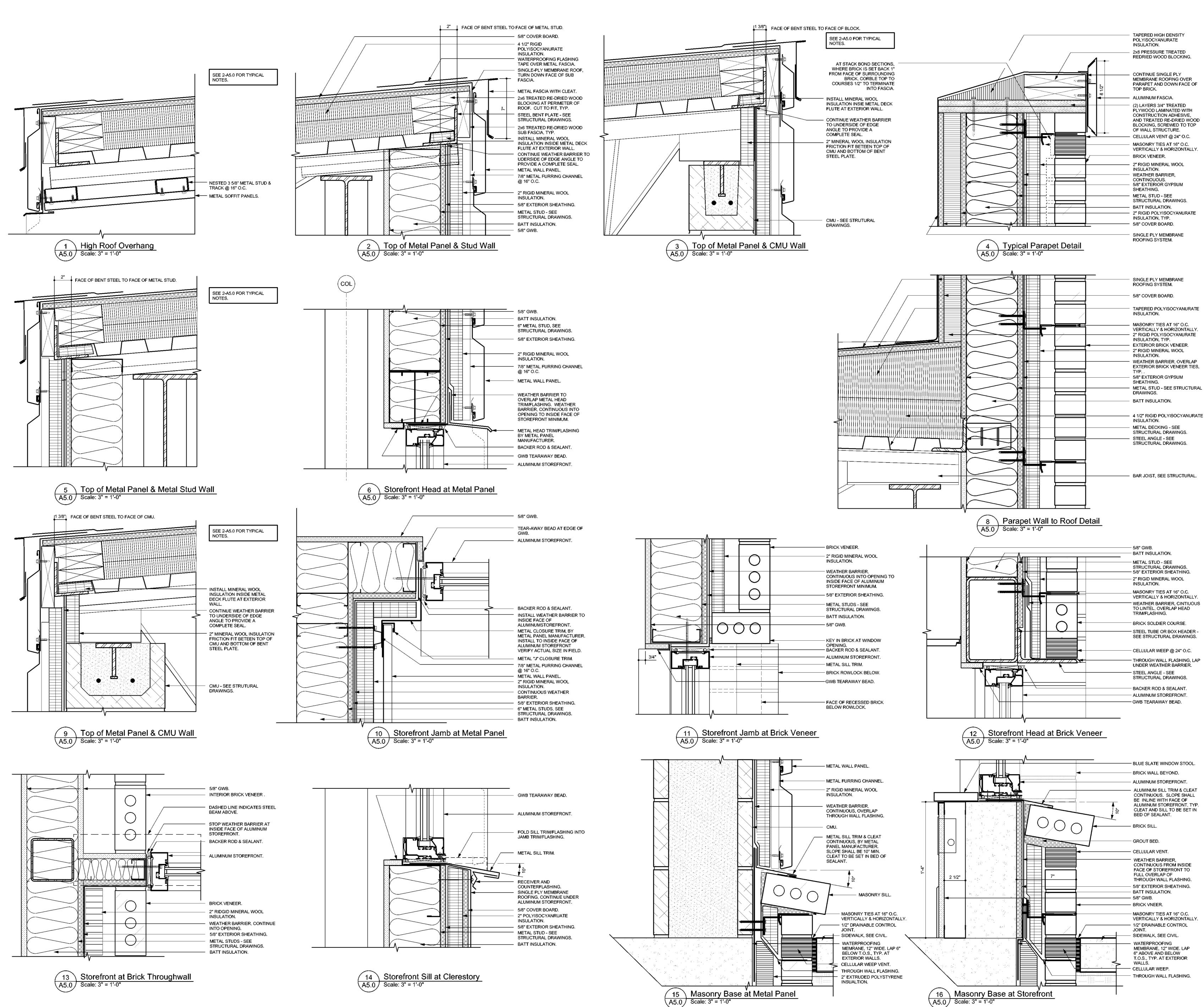




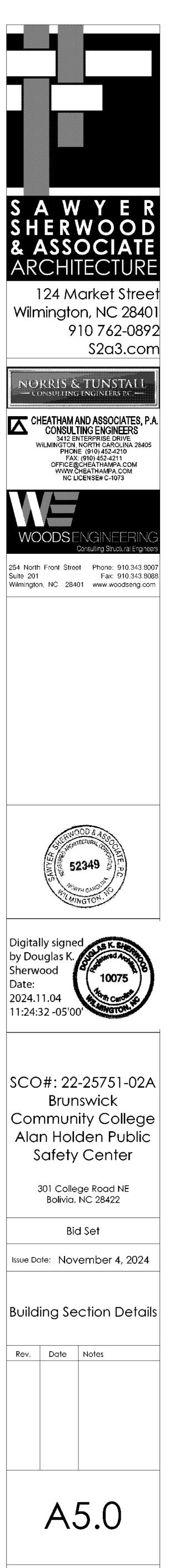


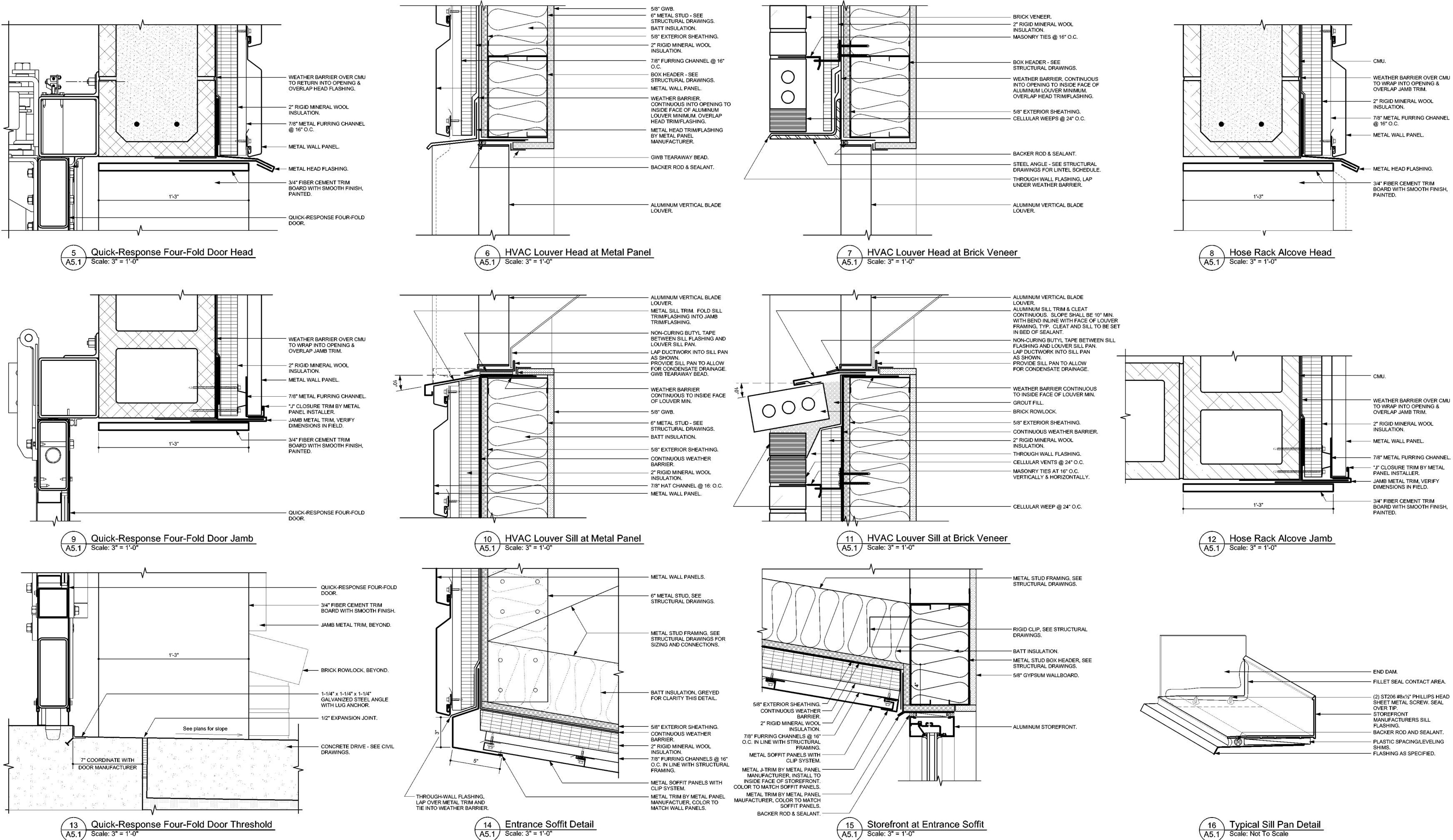


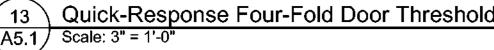
SIM. 6/A4.3



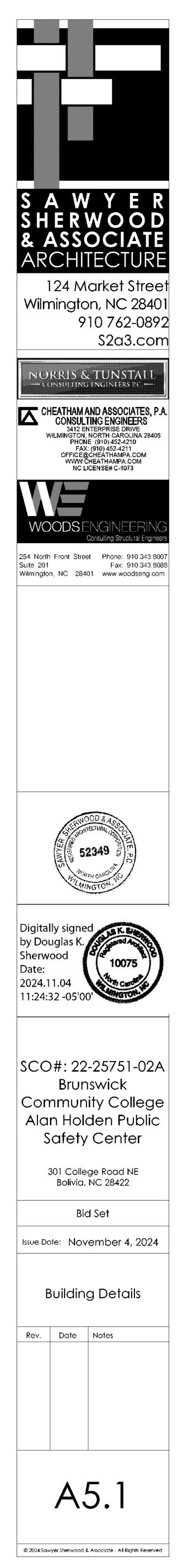
(15) Masonry Base at Metal Panel A5.0) Scale: 3" = 1'-0"

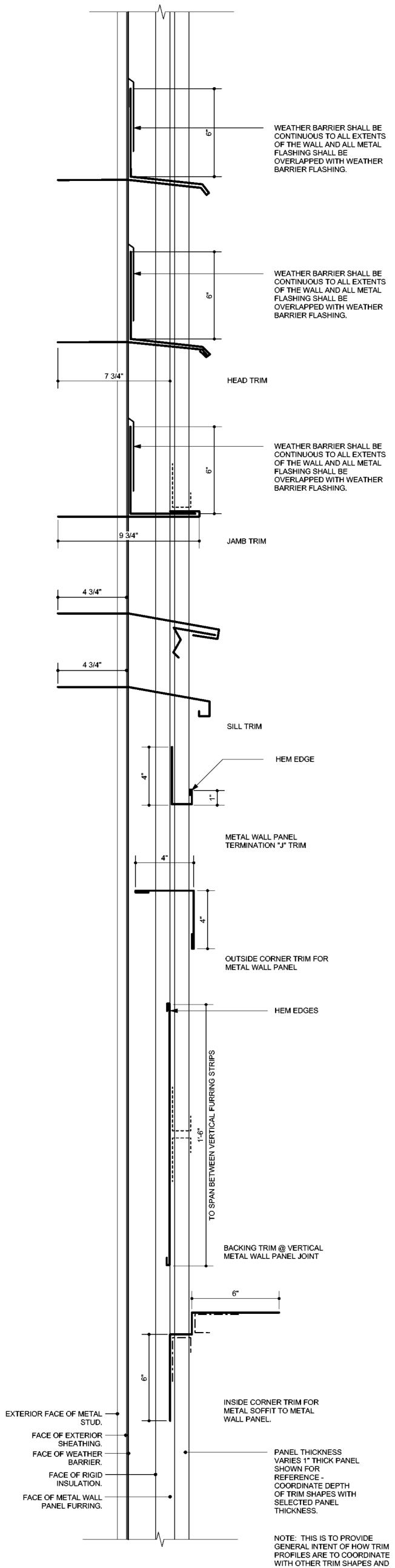


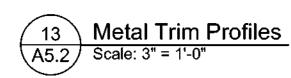




	- ALUMINUM VERTICAL BLADI LOUVER.
	METAL SILL TRIM. FOLD SIL TRIM/FLASHING INTO JAMB TRIM/FLASHING.
	NON-CURING BUTYL TAPE BETWEEN SILL FLASHING A LOUVER SILL PAN.
	LAP DUCTWORK INTO SILL I AS SHOWN. PROVIDE SILL PAN TO ALLO FOR CONDENSATE DRAINAG GWB TEARAWAY BEAD.
	WEATHER BARRIER CONTINUOUS TO INSIDE FA OF LOUVER MIN.
	6" METAL STUD - SEE STRUCTURAL DRAWINGS.
	BATT INSULATION. 5/8" EXTERIOR SHEATHING.
	CONTINUOUS WEATHER BARRIER.
	2" RIGID MINERAL WOOL INSULATION.
	7/8" HAT CHANNEL @ 16: O.0
	METAL WALL PANEL.

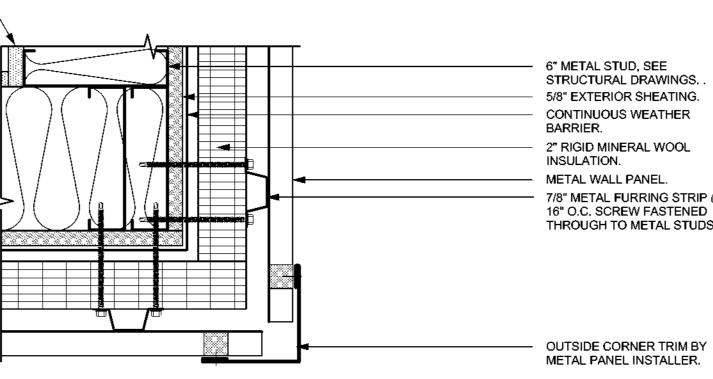






GENERAL CONSTRUCITON. OTHER SHAPES ARE REQUIRED FOR VARIOUS CONDITIONS -SEE DRAWING DETAILS.





(10) Metal Panel Exapnsion Joint A5.2) Scale: 3" = 1'-0"

6" METAL STUD, SEE STRUCTURAL DRAWINGS. . 5/8" EXTERIOR SHEATING. CONTINUOUS WEATHER 2" RIGID MINERAL WOOL METAL WALL PANEL. 7/8" METAL FURRING STRIP @ 16" O.C. SCREW FASTENED THROUGH TO METAL STUDS.

METAL WALL PANEL.

7/8" METAL FURRING CHANNEL @ 16" O.C. SCREW FASTENED THROUGH TO METAL STUDS.

CONTINUOUS WEATHER

5/8" EXTERIOR SHEATHING.

2" RIGID MINERAL WOOL INSULATION.

BARRIER.

METAL "J" TRIM.

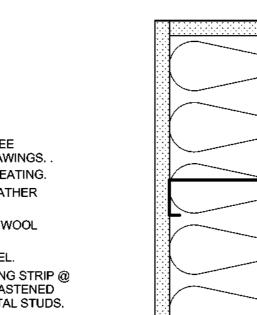
BACKING TRIM.

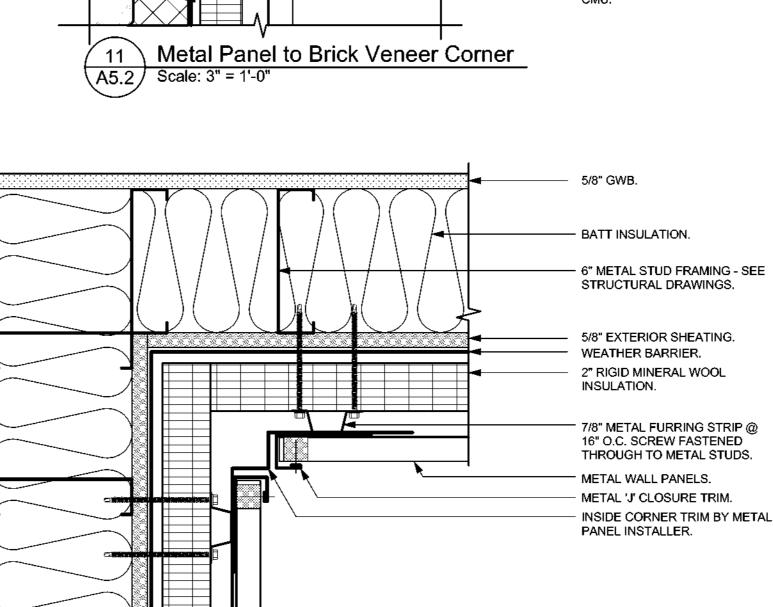
5/8" GWB.

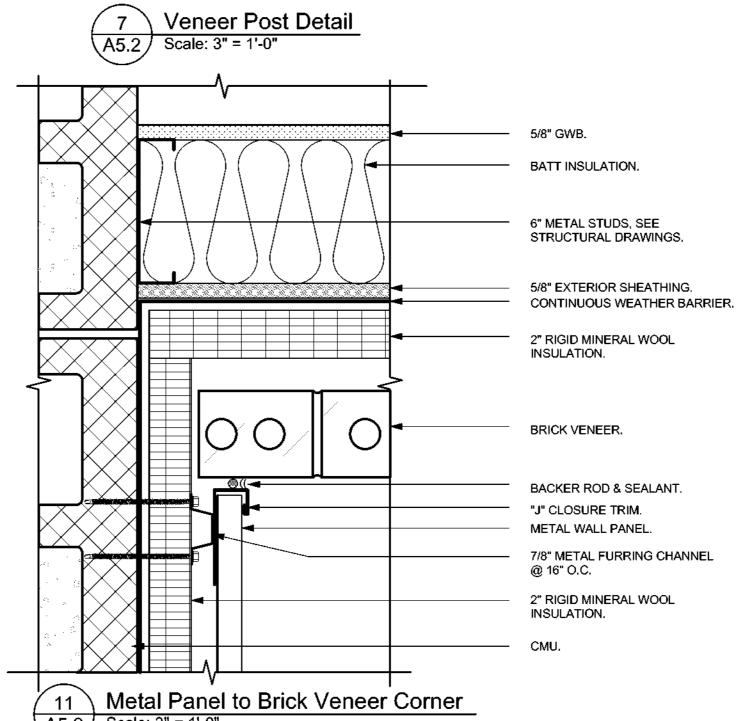
5/8" GWB.

METAL STUD - SEE

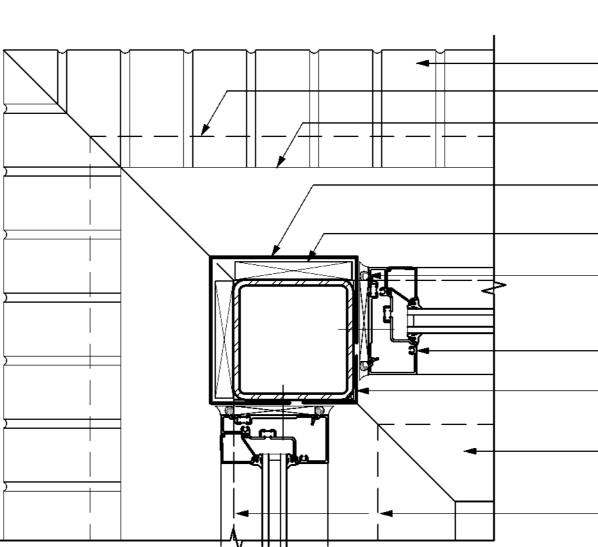
STRUCTURAL DRAWINGS. .







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15 Metal Panel Inside Corner A5.2 Scale: 3" = 1'-0"

----- BRICK SILL BELOW. STEEL LINTEL ABOVE.

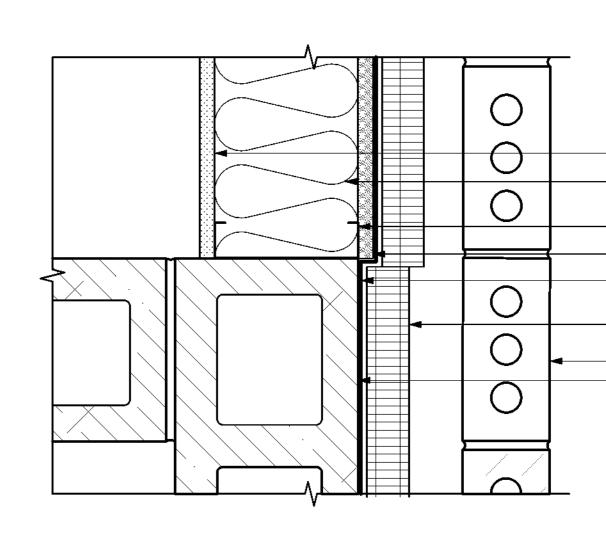
WINDOW SILL TRIM BELOW, MITER AT CORNER. EXTEND UNDER COLUMN WRAP AND TURN UP. 0.040 ALUMINUM COLUMN WRAP BY STOREFRONT MANUFACTURER. TREATED REDRIED 1X6 CUT TO FIT WIDTH OF COLUMN. BACKER ROD AND SEALANT, TYP.

ALUMINUM STOREFRONT.

0.040 ALUMINUM COLUMN

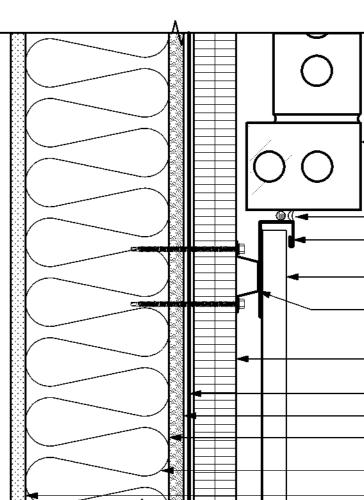
WRAP BY STOREFRONT MANUFACTURER. WINDOW STOOL BELOW, MITER AT CORNER.

STEEL BEAM ABOVE.



5/8" GWB. - BATT INSULATION. 6" METAL STUDS , SEE STRUCTURAL DRAWINGS.

5/8" EXTERIOR SHEATHING. WEATHER BARRIER, CONTINUOUS OVER EXTERIOR SHEATHING AND CMU. 2" RIGID MINERAL WOOL INSULATION. BRICK VENEER. OUTSIDE FACE OF CMU ALIGNED WITH OUTSIDE FACE OF METAL STUD.



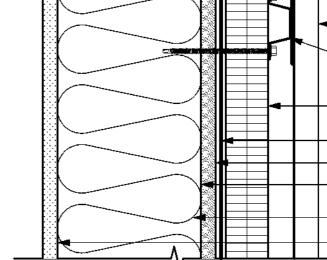
8 Metal Stud to CMU at Brick A5.2 Scale: 3" = 1'-0"

BRICK VENEER, TURN BRICK BACK AT JAMB.

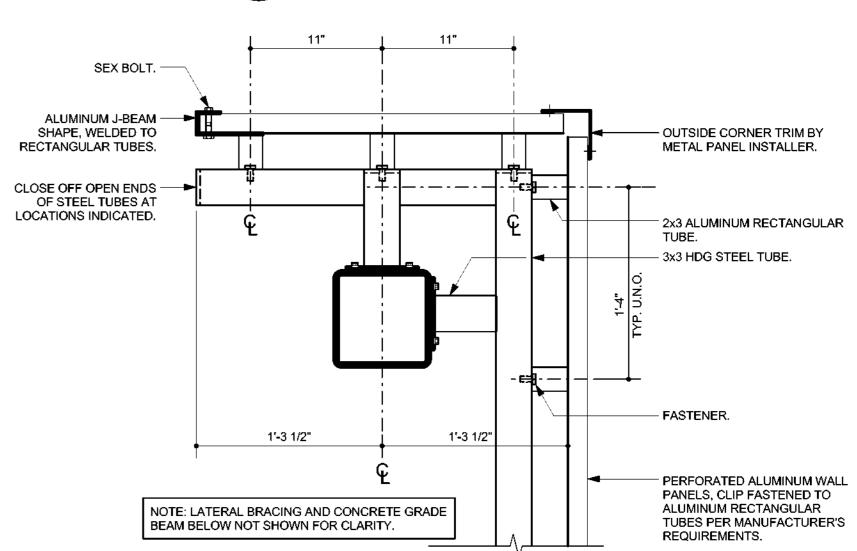
BACKER ROD AND SEALANT. — "J" CLOSURE TRIM.

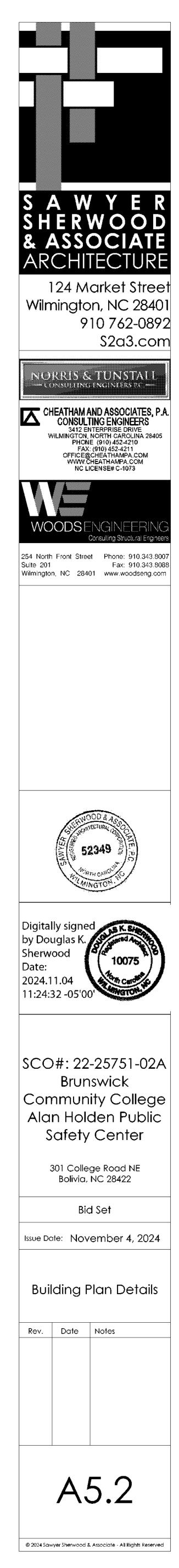
> METAL WALL PANEL. 7/8" METAL FURRING CHANNEL @ 16" O.C.

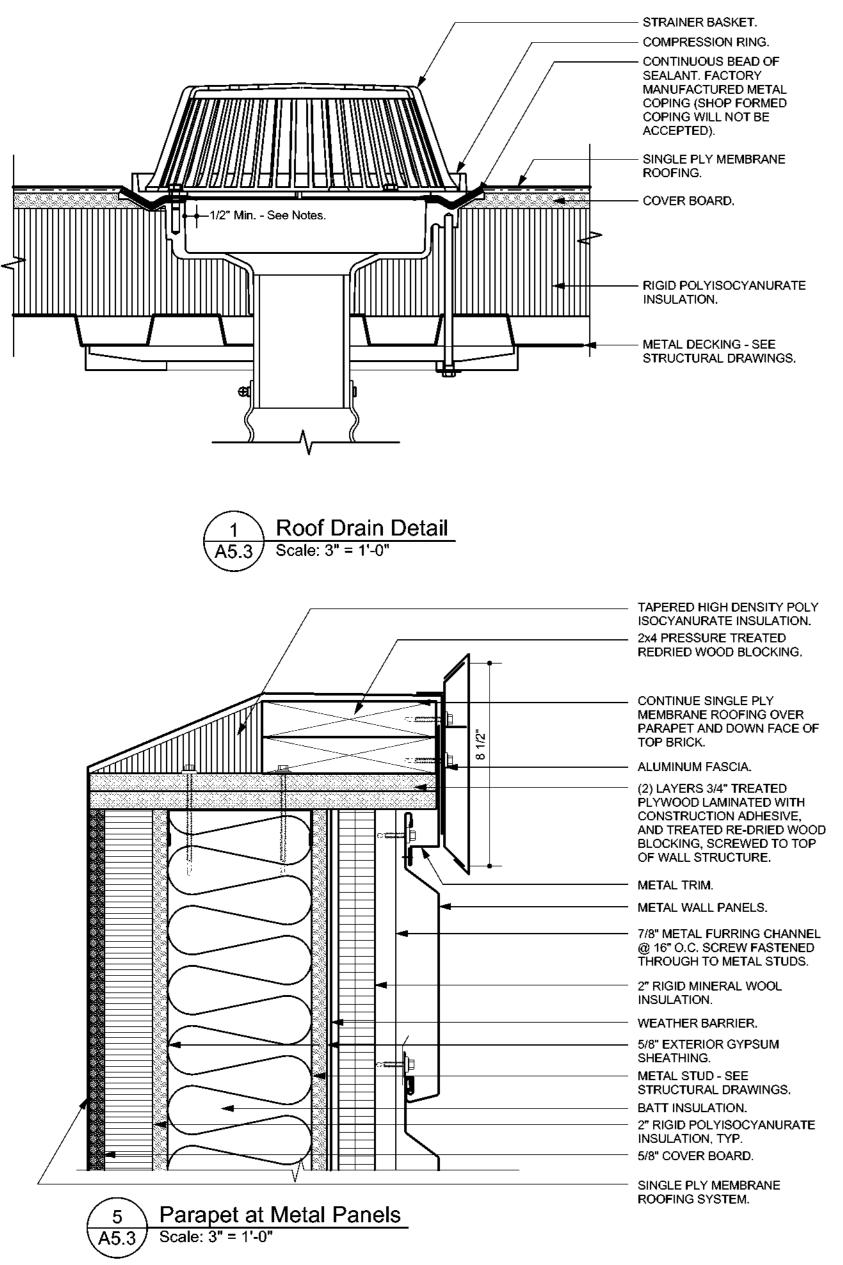
2" RIGID MINERAL WOOL INSULATION. WEATHER BARRIER. 5/8" EXTERIOR SHEATHING. 6" METAL STUDS - SEE STRUCTURAL DRAWINGS. BATT INSULATION. 5/8" GWB.

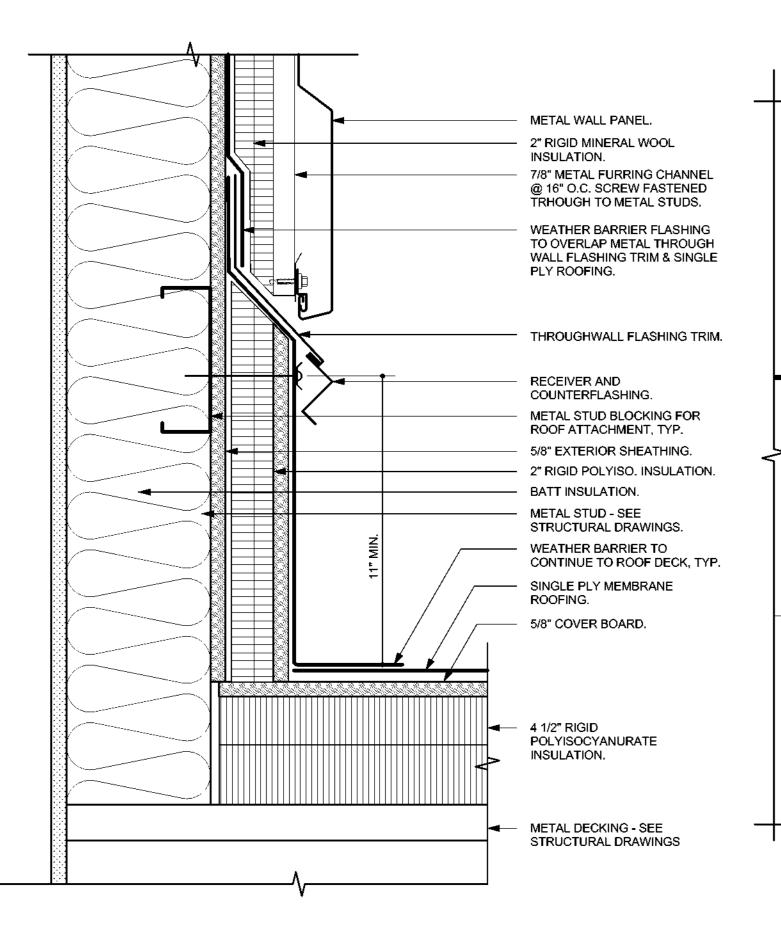


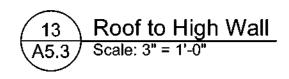
12Metal Panel to Brick VeneerA5.2Scale: 3" = 1'-0"



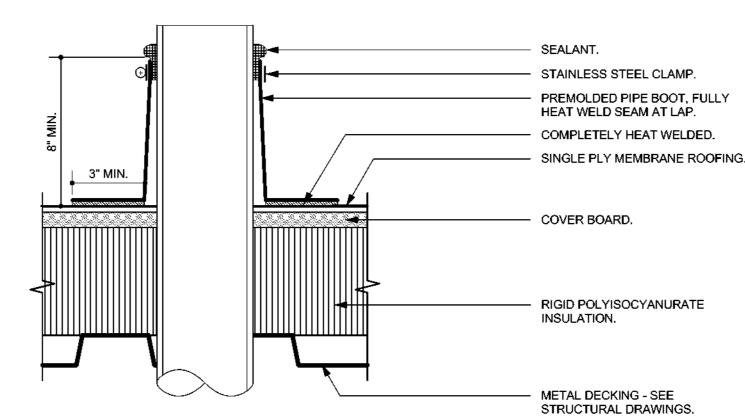




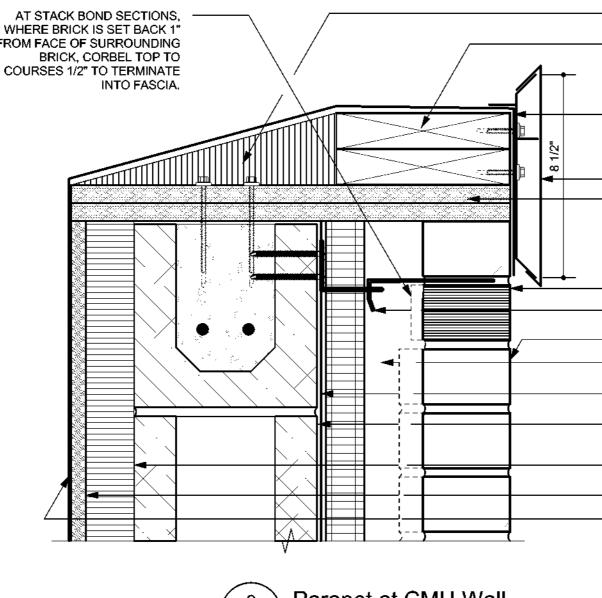




FROM FACE OF SURROUNDING COURSES 1/2" TO TERMINATE



Piping Through Roof Scale: 3" = 1'-0"



6 Parapet at CMU Wall A5.3 Scale: 3" = 1'-0"

TAPERED HIGH DENSITY POLY ISOCYANURATE INSULATION. 2x8 PRESSURE TREATED REDRIED WOOD BLOCKING.

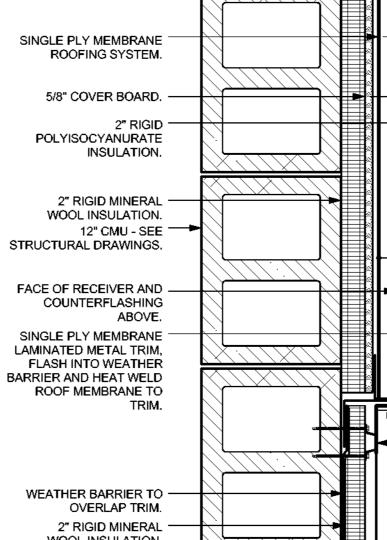
CONTINUE SINGLE PLY MEMBRANE ROOFING OVER PARAPET AND DOWN FACE OF TOP BRICK. ALUMINUM FASCIA.

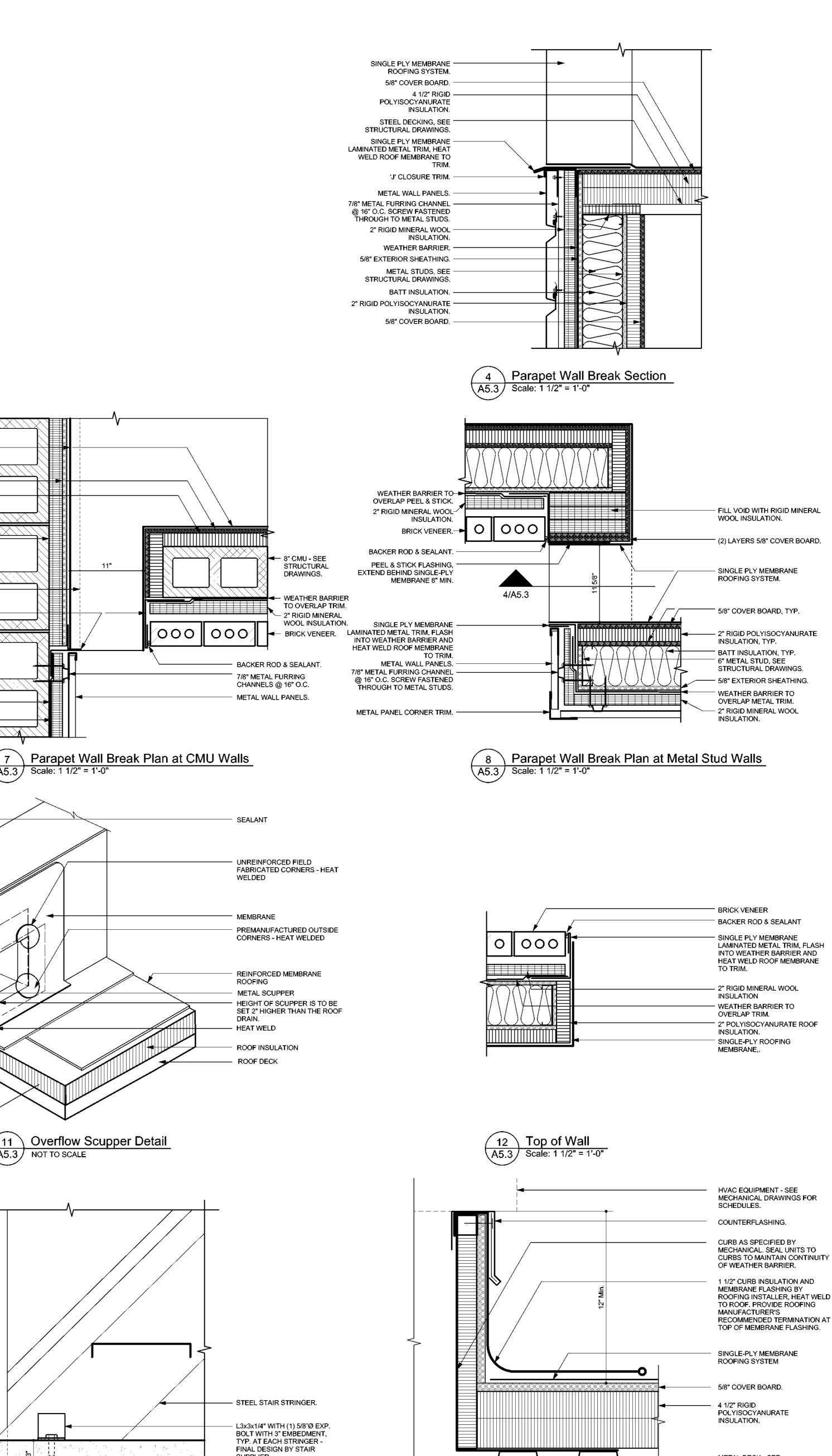
(2) LAYERS 3/4" TREATED PLYWOOD LAMINATED WITH CONSTRUCTION ADHESIVE, AND TREATED RE-DRIED WOOD BLOCKING, SCREWED TO TOP STRUCTURAL DRAWINGS. OF WALL STRUCTURE.

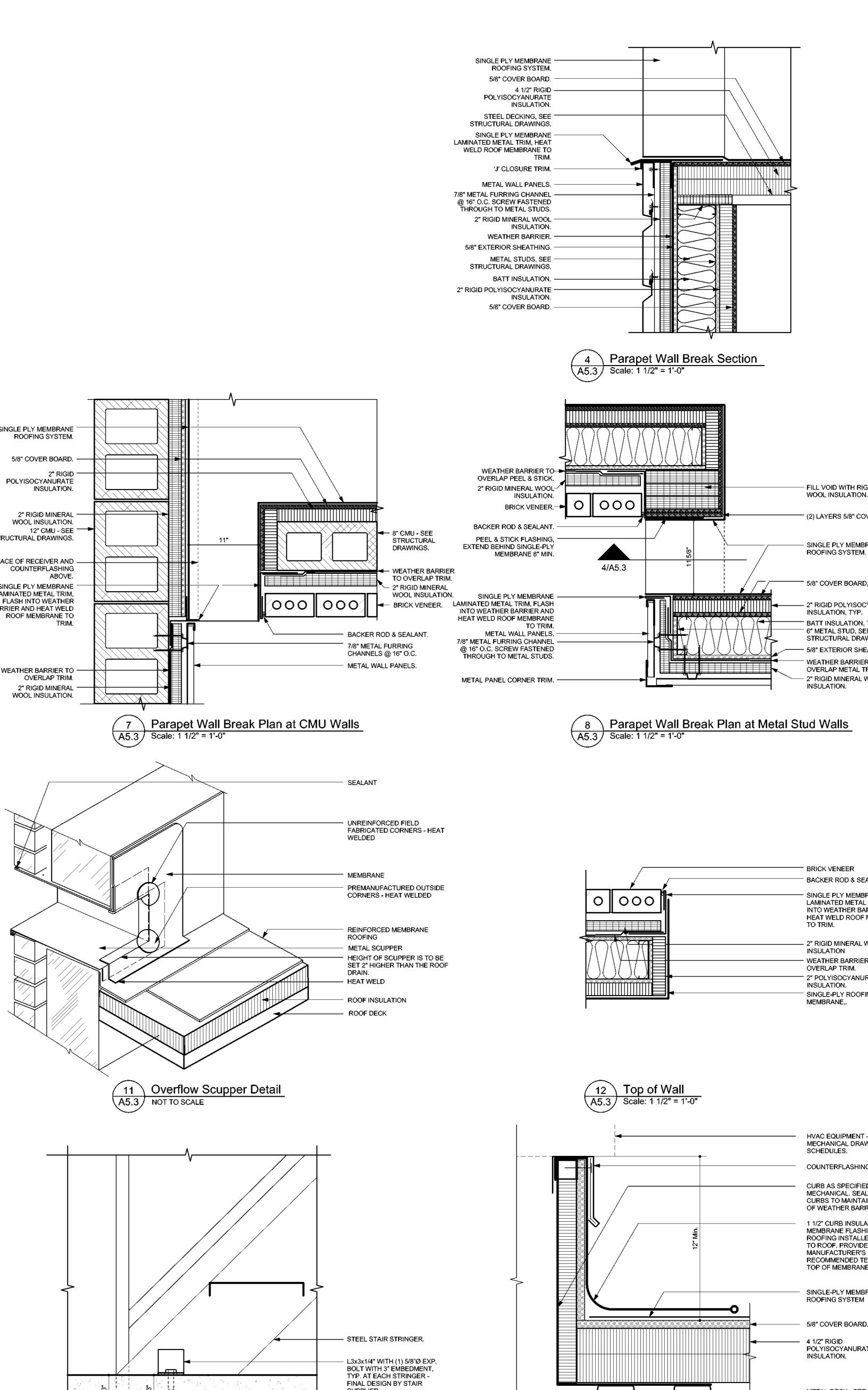
MASONRY TIES AT 16" O.C. VERTICALLY & HORIZONTALLY. BRICK VENEER. 2" RIGID MINERAL WOOL INSULATION. WEATHER BARRIER.

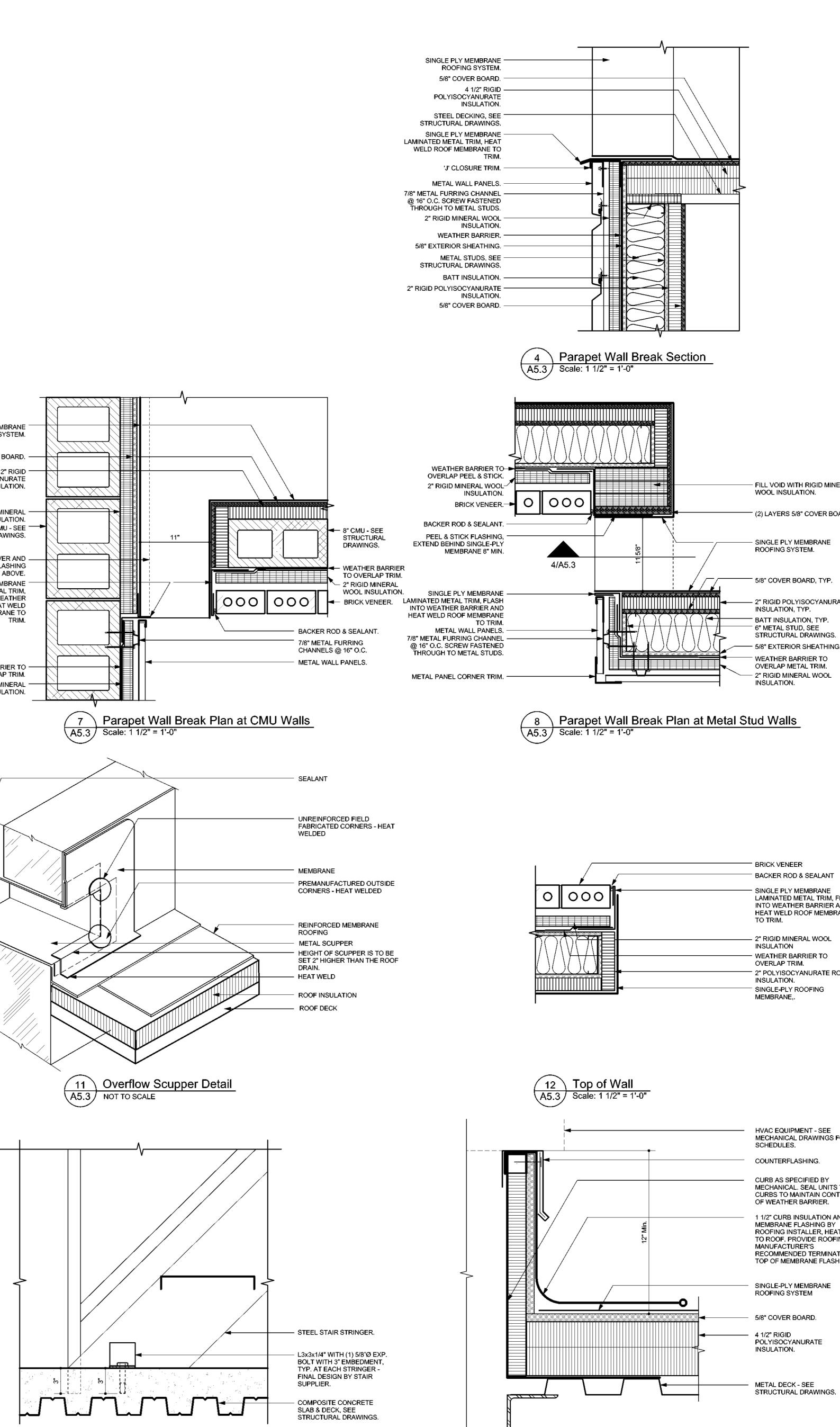
8" CMU - SEE STRUCTURAL DRAWINGS. 2" RIGID POLYISOCYANURATE INSULATION, TYP.

5/8" COVER BOARD. SINGLE PLY MEMBRANE ROOFING SYSTEM.

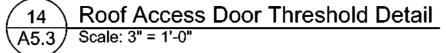


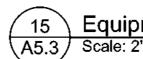




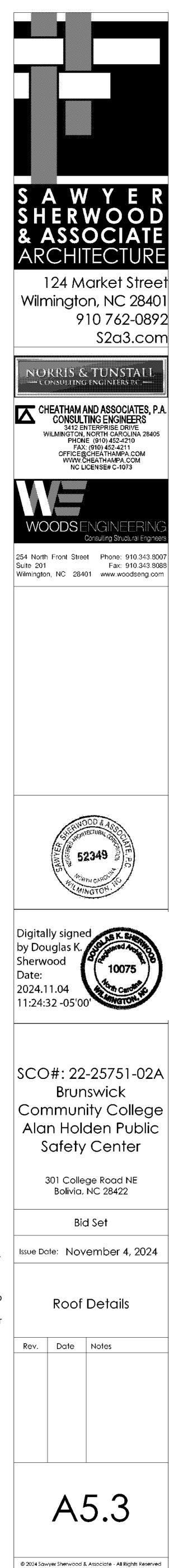


EQUIPMENT PLATFORM ROOF ACCESS SHIP'S LADDER. METAL WALL PANEL BEYOND. ALUMINUM STOREFRONT DOOR. WEATHER BARRIER 8" HIGH MINIMUM BEHIND DOOR JAMBS. END DAM BEYOND. THROUGHWALL FLASHING TRIM. RECEIVER & COUNTERFLASHING. WEATHER BARRIER TO CONTINUE TO ROOF DECK, TYP. CONTINUE TO INSIDE FACE OF DOOR FRAME. TREATED, REDRIED 2X10 STEP, FASTEN EACH END OF STEP TO BLOCKING WITH (2) #12x3" STAINLESS FLATHÉAD WOOD SCREWS. - (4) 2x4 TREATED, REDRIED BLOCKING. ENCAPSULATE BLOCKING WITH MEMBRANE FLASHING WELDED TO ROOFING MEMBRANE. FASTEN BLOCKING TO DECK WITH (2) #12 SCREWS AT EACH END OF STEP. SINGLE PLY MEMBRANE ROOFING. 5/8" COVER BOARD. 4 1/2" RIGID POLYISOCYANURATE INSULATION.



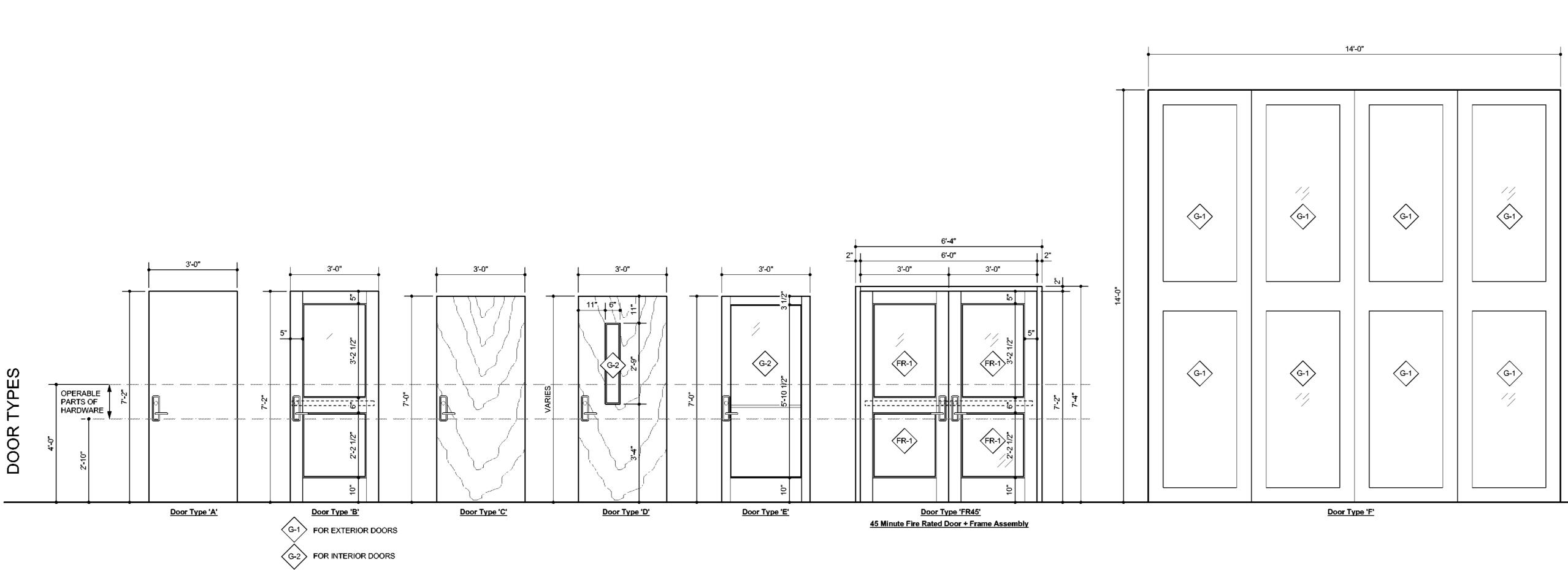


(15) Equipment Platform Ship's Ladder to Slab Connection A5.3) Scale: 2" = 1'-0"



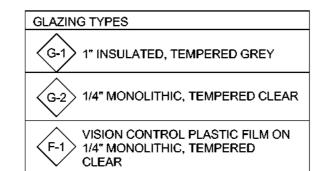
16Equipment Curb DetailA5.3Scale: 3" = 1'-0"

				Door								Frame	
D#	WIDTH	HEIGHT	THICKNESS	OPERATION	TYPE	MATERIAL	GLAZING		AMB DEPT	TYPE	MATERIAL	FIRE	REMARKS
							TYPE	RATING				RATING	
00A	3′0"		2 1/4"	Single	В	Alum	G-2	-	4 1/2"	D	Alum	-	
00B	3'0"		2 1/4"	Single	В	Alum	G-2	-	4 1/2"	D	Alum	-	
00C 00D	3'0" 3'0"		2 1/4" 2 1/4"	Single Single	B B	Alum Alum	G-2 G-2	-	4 1/2" 4 1/2"	E E	Alum	-	
01A	6'0"		<u>2 1/4</u> 1 3/4"	Double Bi-part	D	WD	G-2 G-2	-	7 1/4"	HM5	HM	-	ALT. G-7: Interior Aluminum Frame
02A	3'0"		1 3/4"	Single	D	WD	G-2	-	7 1/4"	НМЗ	HM	-	ALT. G-7: Interior Aluminum Frame
03A	6'0"	7'2"	1 3/4"	Double Bi-part	D	WD	G-2	-	7 1/4"	HM6	нм	-	ALT. G-7: Interior Aluminum Frame
04A	3'0"	7'0"	1 3/4"	Single	D	WD	G-2	-	5"	НМЗ	нм	-	ALT. G-7: Interior Aluminum Frame
05A	3'0"		1 3/4"	Single	D	WD	G-2	-	7 1/4"	НМЗ	нм	-	ALT. G-7: Interior Aluminum Frame
06A			1 3/4"	Single	D	WD	G-2	-	5"	HM3	НМ	-	ALT. G-7: Interior Aluminum Frame
07A	3'0"		1 3/4"	Single	D	WD	G-2	-	5"	HM3	HM	-	ALT. G-7: Interior Aluminum Frame
09A 10A			1 3/4" 1 3/4"	Single Single	D D	WD WD	G-2 G-2	-	5" 5"	НМЗ НМЗ	НМ НМ	-	ALT. G-7: Interior Aluminum Frame ALT. G-7: Interior Aluminum Frame
10A 11A	3'0"		1 3/4"	Single	D	WD	G-2 G-2	-	5	HM3	HM	-	ALT. G-7: Interior Aluminum Frame
12A	3'0"		1 3/4"	Single	D	WD	G-2	-	5"	HM3	НМ	-	ALT. G-7: Interior Aluminum Frame
13A		7'0"	1 3/4"	Single	D	WD	G-2	-	5"	НМЗ	нм	-	ALT. G-7: Interior Aluminum Frame
14A	3'0"	7'0"	1 3/4"	Single	D	WD	G-2	-	7 1/4"	НМЗ	НМ	-	ALT. G-7: Interior Aluminum Frame
15A			1 3/4"	Single	С	WD	-	-	7 1/4"	HM1	НМ	-	ALT. G-7: Interior Aluminum Frame
00A			1 3/4"	Single	D	WD	G-2	-	7 1/4"	НМЗ	нм	-	ALT. G-7: Interior Aluminum Frame
	3'0"		1 3/4"	Single	C	WD	-	-	7 1/4"	HM1	HM	-	ALT. G-7: Interior Aluminum Frame
01A	3'0"		1 3/4"	Single	C	WD	-	-	7 1/4"	HM1	HM	-	ALT. G-7: Interior Aluminum Frame
02A 03A	3'0" 3'0"	7'0" 7'0"	1 3/4" 1 3/4"	Single Single	C D	WD WD	- G-2	- _	7 1/4" 7 1/4"	HM1 HM3	нм нм	-	ALT. G-7: Interior Aluminum Frame ALT. G-7: Interior Aluminum Frame
03A 03AA			<u>1 3/4"</u> 1 3/4"	Single	с С	WD		- _	7 1/4" 7 1/4"	HM3 HM1	HM HM	-	ALT. G-7: Interior Aluminum Frame ALT. G-7: Interior Aluminum Frame
03BA			1 3/4"	Single	c	WD	_	-	5"	HM1	HM	-	ALT. G-7: Interior Aluminum Frame
03CA	3'0"		1 3/4"	Single	c	WD	-	-	5*	HM1	HM	-	ALT. G-7: Interior Aluminum Frame
03DA			1 3/4"	Single	с	WD	-	-	5"	HM1	нм	-	ALT. G-7: Interior Aluminum Frame
04A	3′0"	7'0"	1 3/4"	Single	D	WD	G-2	-	7 1/4"	НМЗ	НМ	-	ALT. G-7: Interior Aluminum Frame
04AA	3'0"	7'0"	1 3/4"	Single	С	WD	-	-	7 1/4"	HM1	нм	-	ALT. G-7: Interior Aluminum Frame
05A			1 3/4"	Single	С	WD	-	-	7 1/4"	HM1	нм	-	ALT. G-7: Interior Aluminum Frame
06A	-		1 3/4"	Single	С	WD	-	-	7 1/4"	HM1	НМ	-	ALT. G-7: Interior Aluminum Frame
07A	3'0"		1 3/4"	Single	D	WD	G-2	-	7 1/4"	HM3	НМ	-	ALT. G-7: Interior Aluminum Frame
07AA	3'0"		1 3/4"	Single	C	WD	-	-	7 1/4"	HM1	HM	-	ALT. G-7: Interior Aluminum Frame
208A 208AA	3'0" 4'0"	7'0" 7'0"	1 3/4" 1 3/4"	Single Single	D C	WD WD	G-2	-	7 1/4" 7 1/4"	HM3 HM1	HM HM	-	ALT. G-7: Interior Aluminum Frame ALT. G-7: Interior Aluminum Frame
00AA	3'0"		1 3/4"	Single	A	Alum	-	-	4 1/2"	A	Alum	-	
301A	3'0"		1 3/4"	Single	c	WD	_	-	7 1/4"	HM1	HM	-	ALT. G-7: Interior Aluminum Frame
302A	3'0"		2 1/4"	Single	E	Alum	G-2	-	4 1/2"	м	Alum	-	
302B	3'0"		2 1/4"	Single	в	Alum	G-1	-	4 1/2"	G	Alum	-	
303A	3'0"	7'0"	1 3/4"	Single	С	WD	-		7 1/4"	HM1	нм		ALT. G-7: Interior Aluminum Frame
604A	3′0"	7'0"	1 3/4"	Single	С	WD	-		7 1/4"	HM1	нм		ALT. G-7: Interior Aluminum Frame
05A	6'0"		1 3/4"	Double Bi-part	С	WD	-	-	9 3/8"	HM1	нм	-	ALT. G-7: Interior Aluminum Frame
06A	3'0"	7'0"	1 3/4"	Single	С	WD	-	-	9 3/8"	HM1	НМ	-	ALT. G-7: Interior Aluminum Frame
06AA	3'0"		1 3/4"	Single	C	WD	-	-	7 1/4"	HM1	HM	-	ALT. G-7: Interior Aluminum Frame
07A 07AA		7'0" 7'0"	1 3/4" 1 3/4"	Single Single	с с	WD WD	-	-	9 3/8" 9 3/8"	HM1 HM1	HM HM	-	ALT. G-7: Interior Aluminum Frame ALT. G-7: Interior Aluminum Frame
07AA	3'0"		1 3/4"	Single	c	WD	-	-	9 3/8"	HM1	HM	-	ALT. G-7: Interior Aluminum Frame
08AA	3'0"		1 3/4"	Single	c	WD	-	-	5"	HM2	HM	-	
09A			1 3/4"	Single	c	WD	-	-	7 1/4"	HM1	НМ	-	ALT. G-7: Interior Aluminum Frame
310A	3'0"		1 3/4"	Single	c	WD		2 HR	5"	HM2	HM	2 HR	
511A	3'0"		1 3/4"	Single	с	WD	-	-	7 1/4"	HM1	нм	-	ALT. G-7: Interior Aluminum Frame
12A			1 3/4"	Single	С	WD	-	-	7 1/4"	HM1	НМ	-	ALT. G-7: Interior Aluminum Frame
13A	3'0"		1 3/4"	Single	С	WD	- 	-	7 1/4"	HM1	НМ	-	ALT. G-7: Interior Aluminum Frame
00A	6'0"		1 3/4"	Double Bi-part	FR45	STL FF	FR-1	45 MIN	4 1/2"	FR45	STL FF	45 MIN	
00B	3'0"		1 3/4"	Single	A	Alum	-	-	4 1/2"	A	Alum	-	
	14'0" 14'0"		3 3/8" 3 3/8"	-	F	STL FF STL FF	G-1 G-1	-	1′3" 1′3"	-	FCB FCB	-	Four-fold doors, see 5/A5.1 and 9/A5.1 for jamb detail
00D 00E	14'0" 14'0"		3 3/8" 3 3/8"	- -	F	STL FF	G-1 G-1	- _	1'3" 1'3"	- _	FCB	-	Four-fold doors, see 5/A5.1 and 9/A5.1 for jamb detail Four-fold doors, see 5/A5.1 and 9/A5.1 for jamb detail
00E 00F			3 3/8 3 3/8"	-	F		G-1	- -	1'3"	-	FCB	-	Four-fold doors, see 5/A5.1 and 9/A5.1 for jamb detail Four-fold doors, see 5/A5.1 and 9/A5.1 for jamb detail
01A	3'0"		1 3/4"	Single	c.	WD	-	-	5*	HM2	НМ	-	
01B	3'0"		1 3/4"	Single	с	WD	-	45 MIN	5"	HM2	НМ	1 HR	
01C	3'0"		1 3/4"	Single	A	Alum	-	-	4 1/2"	A	Alum	-	
02A	3′0"		1 3/4"	Single	С	WD	-	-	5"	HM2	нм	-	
03A	3'0"		1 3/4"	Single	с	WD	-	-	5"	HM2	нм	-	
04A	3'0"		1 3/4"	Single	C	WD	-	- 	5*	HM2	HM	-	
04AA	3'0"		1 3/4"	Single	c	WD	-	45 MIN	5"	HM2	HM	1 HR	
06A	3'0"		1 3/4"	Single	A	Alum	-	-	4 1/2"	A	Alum	-	
00A	6'0"		1 3/4"	Double Bi-part	C	WD	-	-	7 1/4"	HM1	HM	-	
01A 12A	3'0" 3'0"		1 3/4" 2 1/4"	Single Single	A B	Alum Alum	- G-1	-	4 1/2" 4 1/2"	A C	Alum Alum	-	
12A 14A	3'0" 3'0"		<u>2 1/4"</u> 2 1/4"	Single	В	Alum	G-1 G-1	- _	4 1/2" 4 1/2"	В	Alum	- _	
14A /1A	3'0"		<u>2 1/4</u> 2 1/4"	Single	В	Alum	G-1	<u>-</u>	4 1/2"	D	Alum	-	
/1 <u>A</u> /1B	3'0"		2 1/4" 2 1/4"	Single	В	Alum	G-1	-	4 1/2"	D	Alum	-	
/2A	3'0"		2 1/4"	Single	в	Alum	G-1	-	4 1/2"	E	Alum	-	
	1		2 1/4"	Single	в	Alum	G-1	I	4 1/2"	E	Alum		

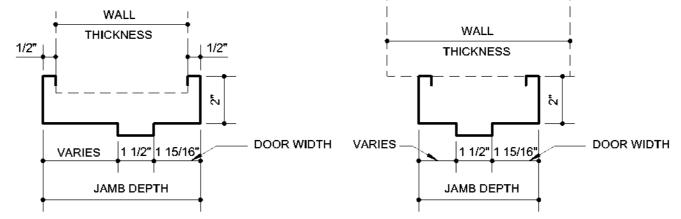


FINIS	H SCHEDULE							
ID	ROOM NAME	FLOOR FINISH	BASE MATERIAL	NORTH WALL FINISH	EAST WALL FINISH	SOUTH WALL FINISH		REMARKS
	Lobby		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	Wall protection w custom imagery on
	Driving Simulator		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Conference		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Driving Simulator		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Office Office		Profile Base Profile Base	GWB Painted GWB Painted	GWB Painted GWB Painted	GWB Painted GWB Painted	GWB Painted GWB Painted	
	Office		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Office		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Workroom		Profile Base	GWB Painted	GWB Painted	-	GWB Painted	
	Office		Profile Base	GWB Painted	GWB Painted	GWB Painted	GBW Painted	
	Office		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Office		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
112	Office	CPT	Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
113	Office	CPT	Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
114	Staff Lounge	CONC stained	Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	Wall protection on South wall at case
115	Toilet	Tile	Tile	GWB Epoxy Painted, Tile	GWB Epoxy Painted, Tile	GWB Epoxy Painted, Tile	GWB Epoxy Painted, Tile	Tile wainscot to 7'-2" AFF as noted o
200	Classroom	CPT	Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
200A	Storage	СРТ	Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Mechanical		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Mechanical		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
			Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	Wall protection at casework and to 4
	Storage		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Observation		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Mock Apartment		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Mock Bathroom Classroom		Profile Base Profile Base	GWB Painted GWB Painted	GWB Painted GWB Painted	GWB Painted GWB Painted	GWB Painted GWB Painted	
	Storage		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Mechanical		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
			Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Classroom	CPT	Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	Wall protection at casework. See she
	Storage	CPT	Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Classroom	CPT	Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
208A	Mock Holding Cell	CPT	Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
300	Electrical	CONC stained	Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
301	I. T.	CONC stained	Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
302	Student Lounge	CONC stained, CPT	Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	Wall protection at casework. See she
303	Women's Restroom	Tile	Tile	GWB Epoxy Painted, Tile	GWB Epoxy Painted, Tile	GWB Epoxy Painted, Tile	GWB Epoxy Painted, Tile	Tile wainscot to 7'-2" AFF as noted o
	Men's Restroom	Tile	Tile			GWB Epoxy Painted, Tile		Tile wainscot to 7'-2" AFF as noted o
	Mechanical		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Mat Room		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Storage	CONC stained	Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Decision Making Simulator		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Storage	CONC stained	Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Tactical Training Storage	CONC stained CONC stained	Profile Base Profile Base	GWB Painted CMU Painted	GWB Painted CMU Painted	CMU Painted CMU Painted	GWB Painted CMU Painted	Wall protection on all walls to 7'-2". S
	Custodial		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	
	Data		Profile Base	CMU Painted	CMU Painted	CMU Painted	CMU Painted	
		Fluid-Applied Floor, Tile		GWB Epoxy Painted, Tile				Tile wainscot to 7'-2" AFF as noted o
		Fluid-Applied Floor, Tile				GWB Epoxy Painted, Tile		Tile wainscot to 7'-2" AFF as noted o
		Fluid-Applied Floor, Tile			• •	CMU Epoxy Painted, Tile		Tile wainscot to 7'-2" AFF as noted or
		CONC stained	-	CMU Painted	CMU Painted	CMU Painted	CMU Painted	ALT. G-8: Fluid-applied floor.
	Laundry/Decon		Profile Base	CMU Painted	CMU Painted	CMU Painted	CMU Painted	ALT. G-8: Fluid-applied floor and bas
	Turnout Gear	CONC stained	-	CMU Painted	CMU Painted	CMU Painted	CMU Painted	ALT. G-8: Fluid-applied floor.
403	SCBA Storage	CONC stained	-	CMU Painted	CMU Painted	CMU Painted	CMU Painted	ALT. G-8: Fluid-applied floor.
404	Storage	CONC stained	-	CMU Painted	CMU Painted	CMU Painted	CMU Painted	ALT. G-8: Fluid-applied floor.
404A	Weapons/ Ammo Vault	CONC stained	-	CMU Painted	CMU Painted	CMU Painted	CMU Painted	ALT. G-8: Fluid-applied floor.
406	Riser	CONC stained	-	CMU Painted	CMU Painted	CMU Painted	CMU Painted	
500	Mezzanine	CONC stained	Profile Base	GWB Painted	GWB Painted	-	GWB Painted	
	Equipment Platform		Profile Base	CMU Painted	CMU Painted	GWB Painted	CMU Painted	
	Hall		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	ALT. G-9: Stainless steel wall base.
H2	Hall	CONC stained	Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	Entrance mat at door H2A per 1/A7.5
	Hall	CONC stained	Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	Entrance mat at door H4A per 1/A7.5
		CONC stained	Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	Wall protection to 4'-0" AFF. See she
	Hall		Profile Base	CMU Painted	CMU Painted	CMU Painted	CMU Painted	ALT. G-9: Stainless steel wall base.
	Hall		Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	ALT. G-9: Stainless steel wall base.
V1	Vestibule	Entrance Mat	Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	ALT. G-9: Stainless steel wall base.
V2	Vestibule	Entrance Mat	Profile Base	GWB Painted	GWB Painted	GWB Painted	GWB Painted	

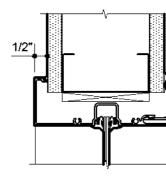
ALUM - Aluminum CONC - Concrete ETR - Existing To Remain FCB - Fiber Cement Board FF - Factory Finish Coating GWB - Gypsum Wallboard HM - Hollow Metal OTS - Open to Structure PLWD - Plywood
RB - Rubber Base STL - Steel SS - Stainless Steel WD - Wood



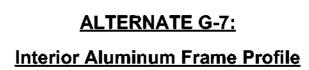
FR-1 FIRE RATED GLAZING



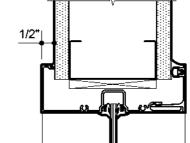




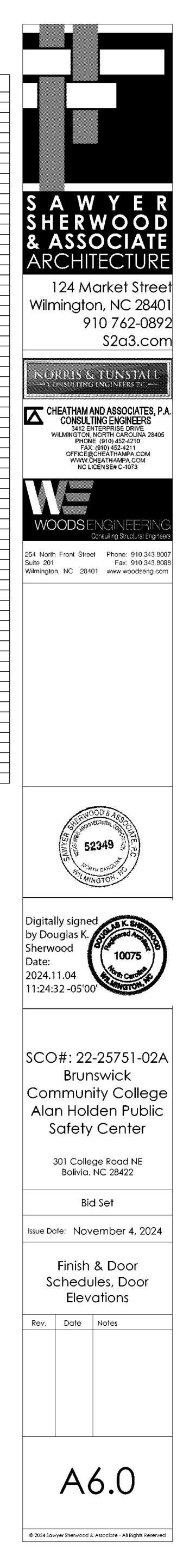
HM Frame Profile at CMU Walls







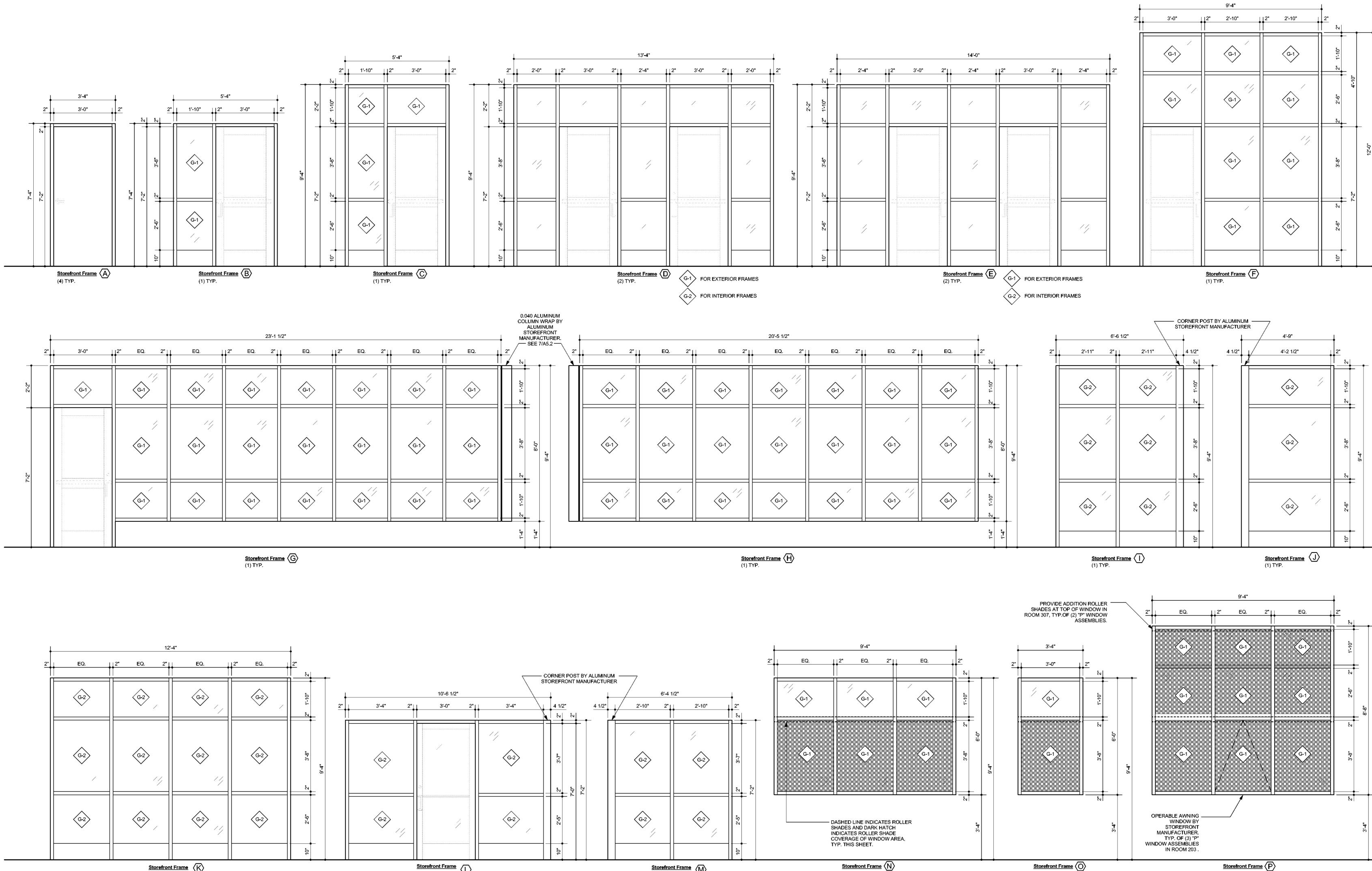


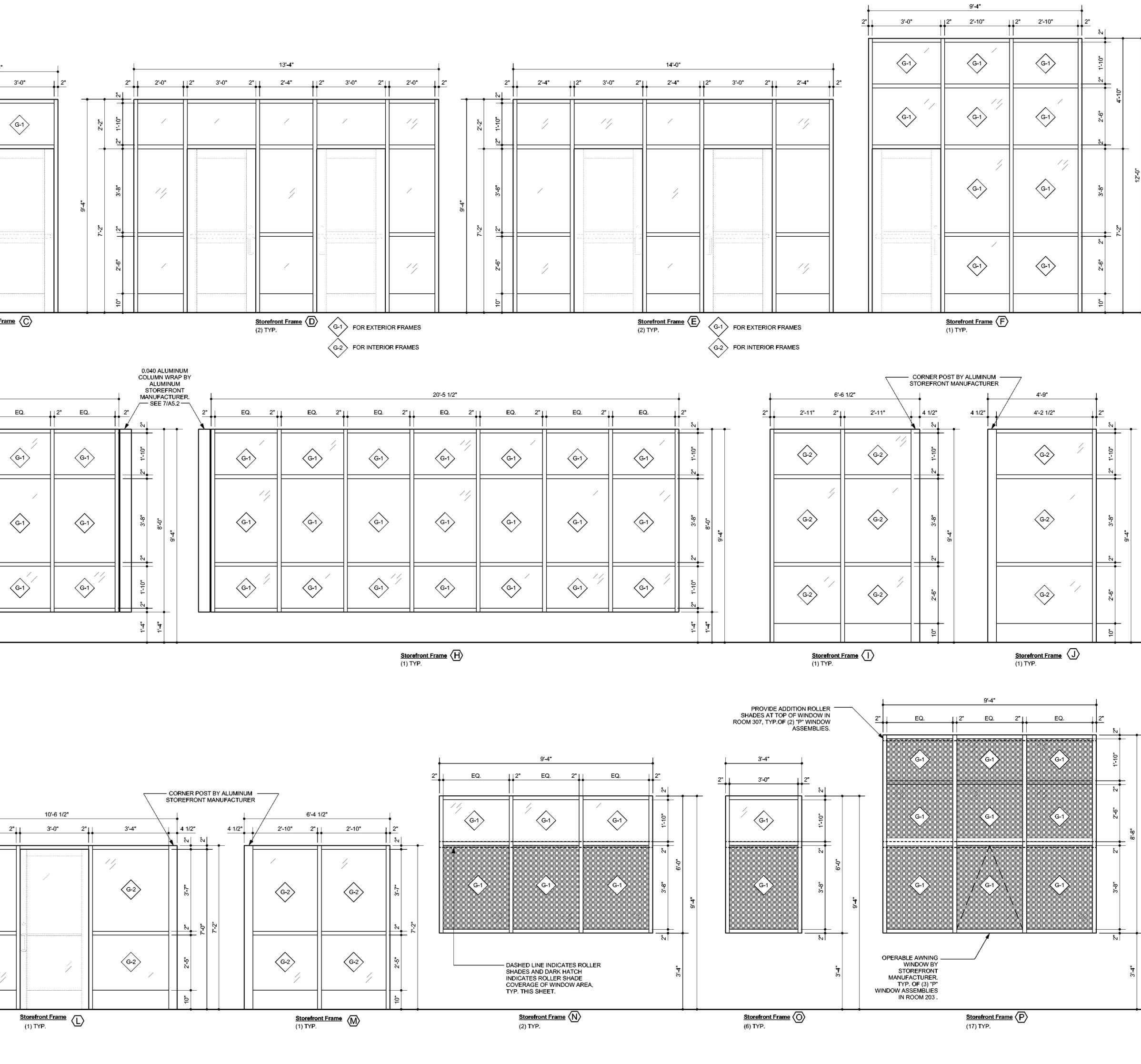


2"	EQ.	<u></u> _2" EQ.	<u>∐</u> 2" EQ.	<u></u> ∐2‴ EQ.
		T		
	/	/	/	
	G-1	G-1		G-1
	1		//	

G-2	G-2	G-2	G-2	α- • •	G-2
				0"	
G-2	G-2	G-2 ///	G-2	10" 2'-6"	G-2
	<u>Storefron</u> (1) TYP.	<u>t Frame</u>			

	Ļ			23'-1 1	/2"		
<u>2"</u>	3'-0"	2" EQ. 2"	EQ.	2" EQ. 2"	EQ.	2" EQ. 2"	+
2'-2"	G-1	G-1	G-1	G-1	G-1	G-1	
		G-1	G-1	G-1	G-1	G-1	
7:-2"		G-1	G-1	G-1	G-1	G-1	
			·	· · · ·	·,	· · ·	·

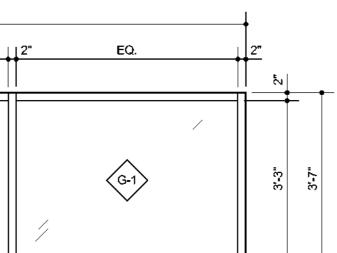


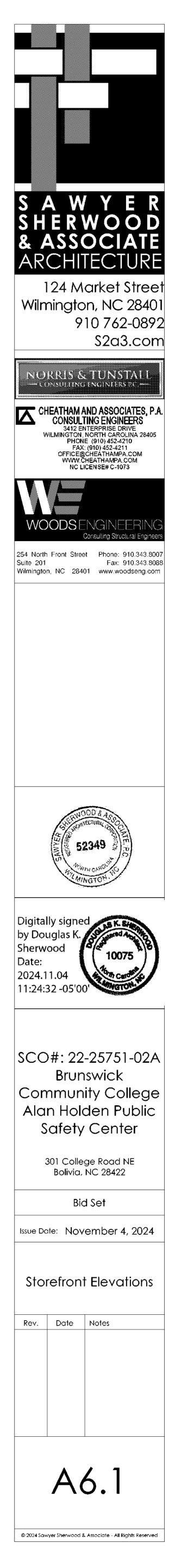


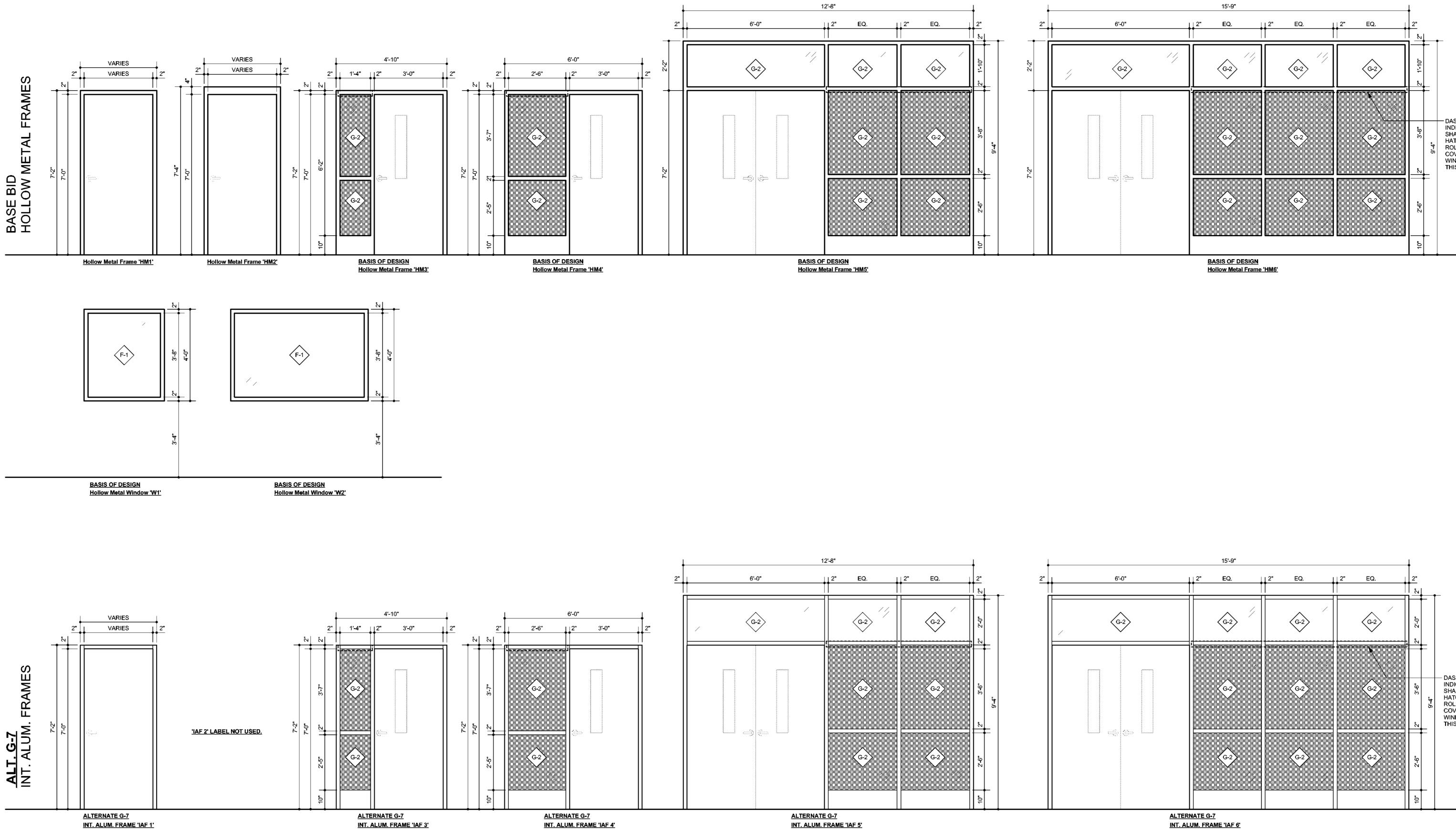
48'-0" I | 2" EQ. EQ. 11 G-1 (G-1) (G-1) (G-1) $\langle G-1 \rangle$

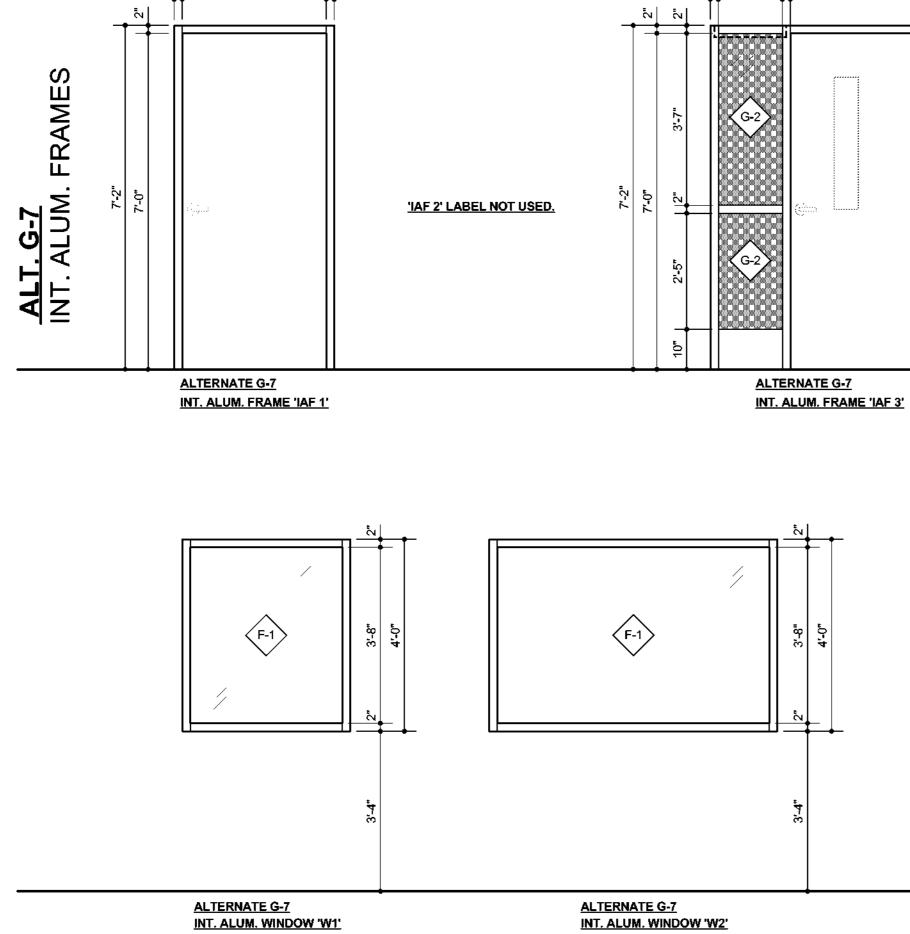
Storefront Frame (Q) (2) TYP.

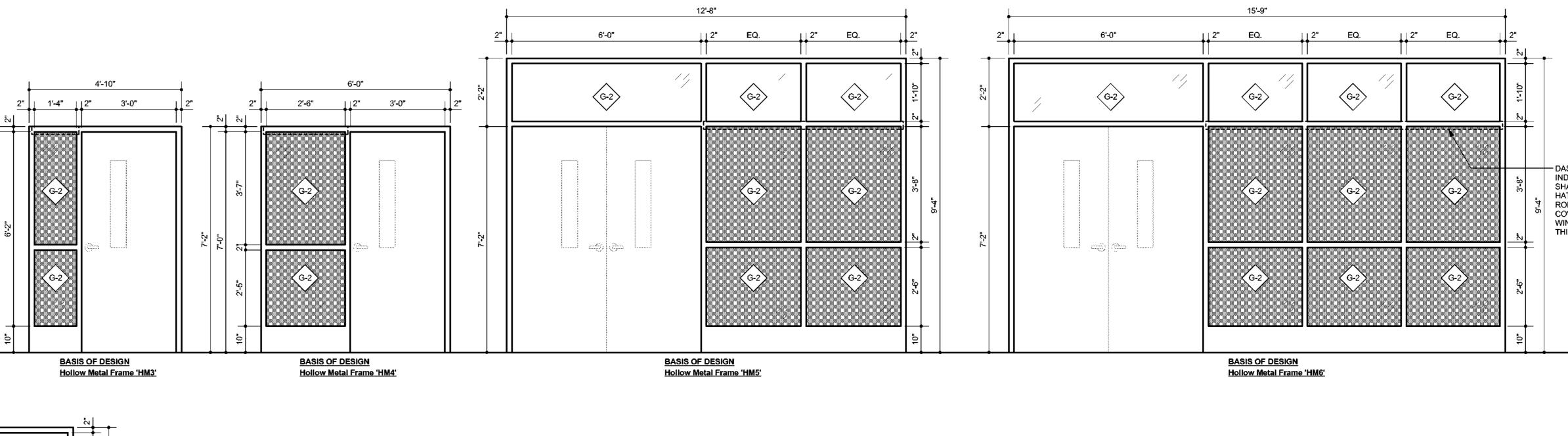
SEE BULIDING SECTIONS FOR HEIGHT AFF

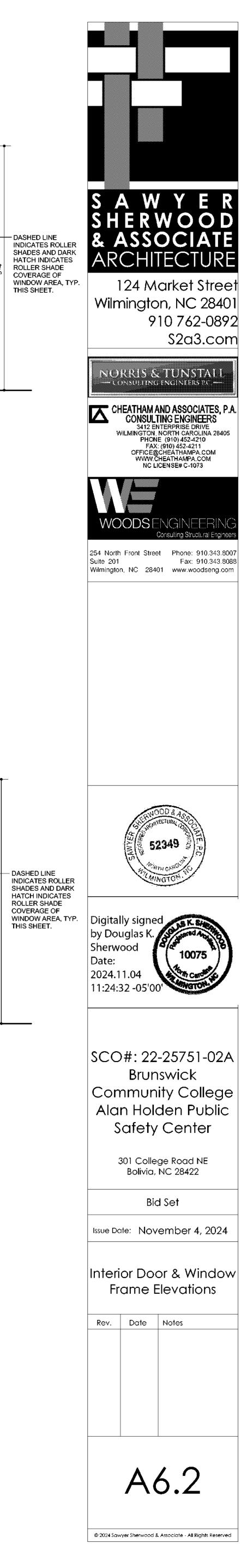


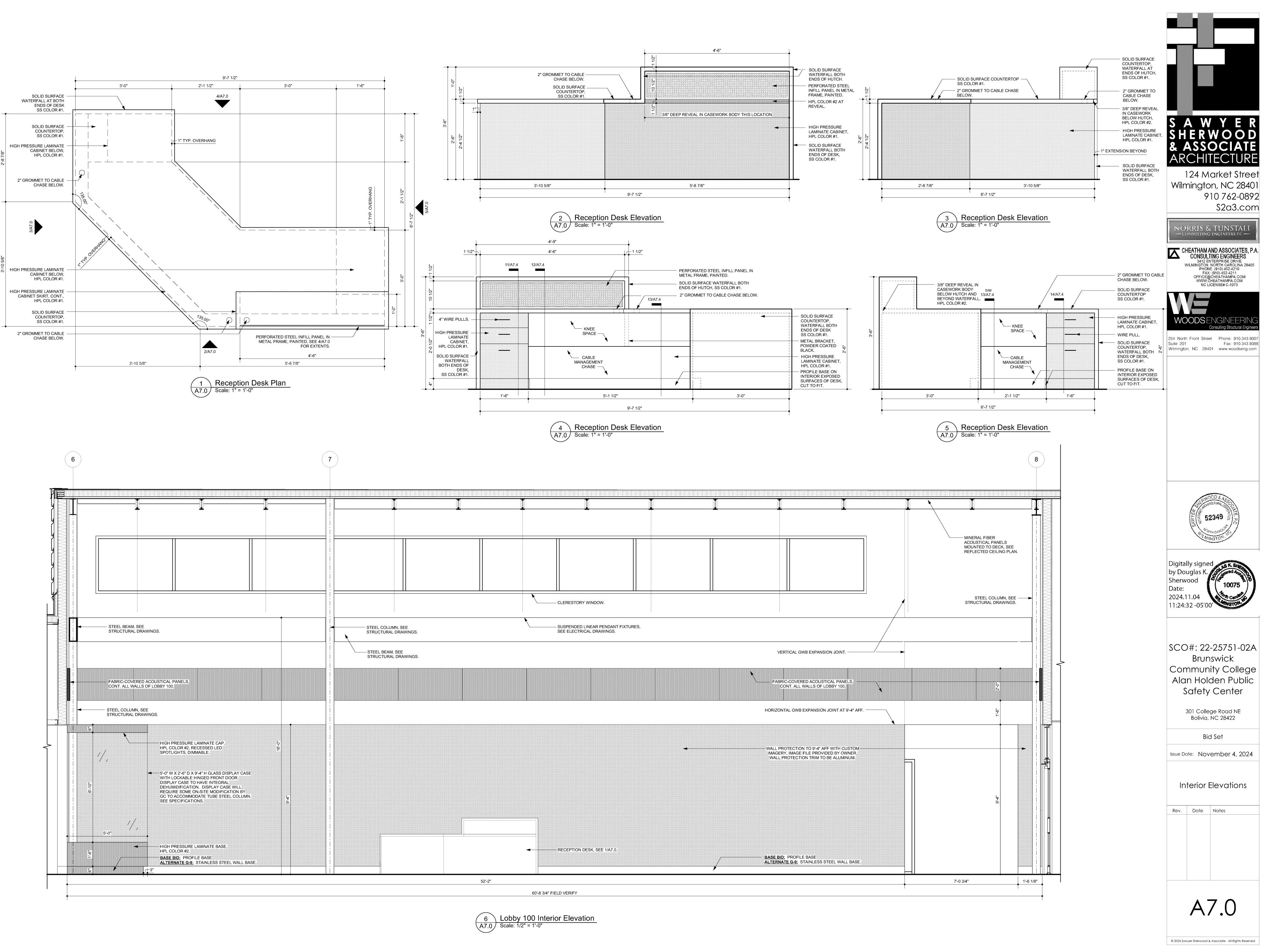


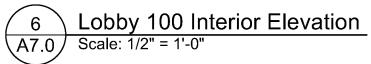


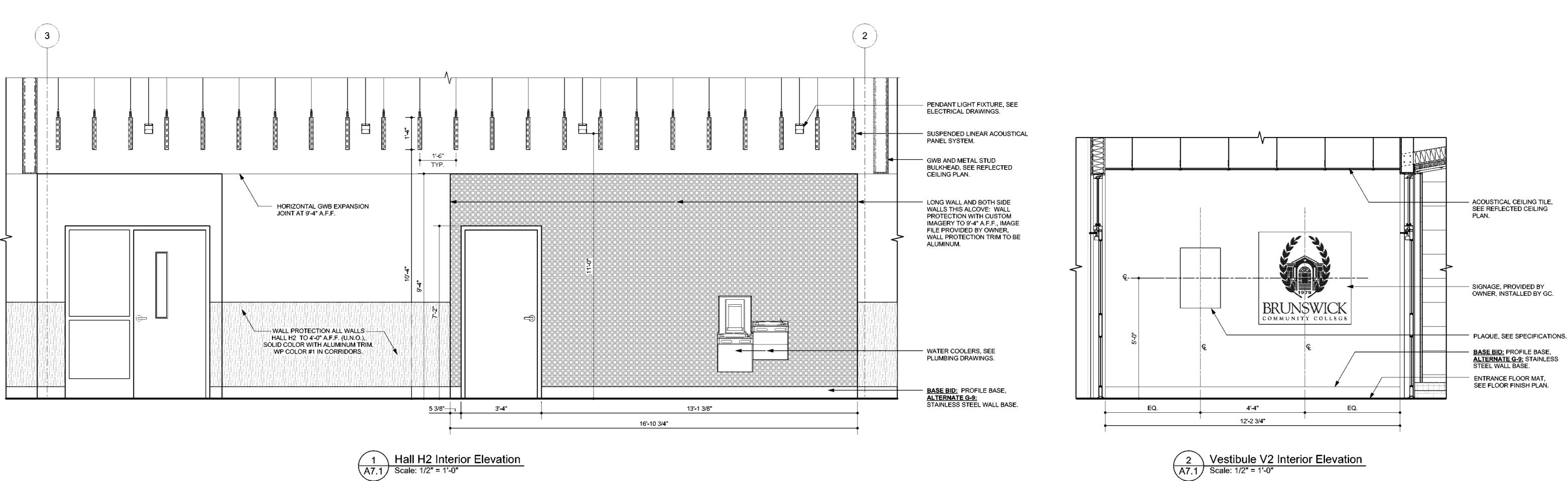


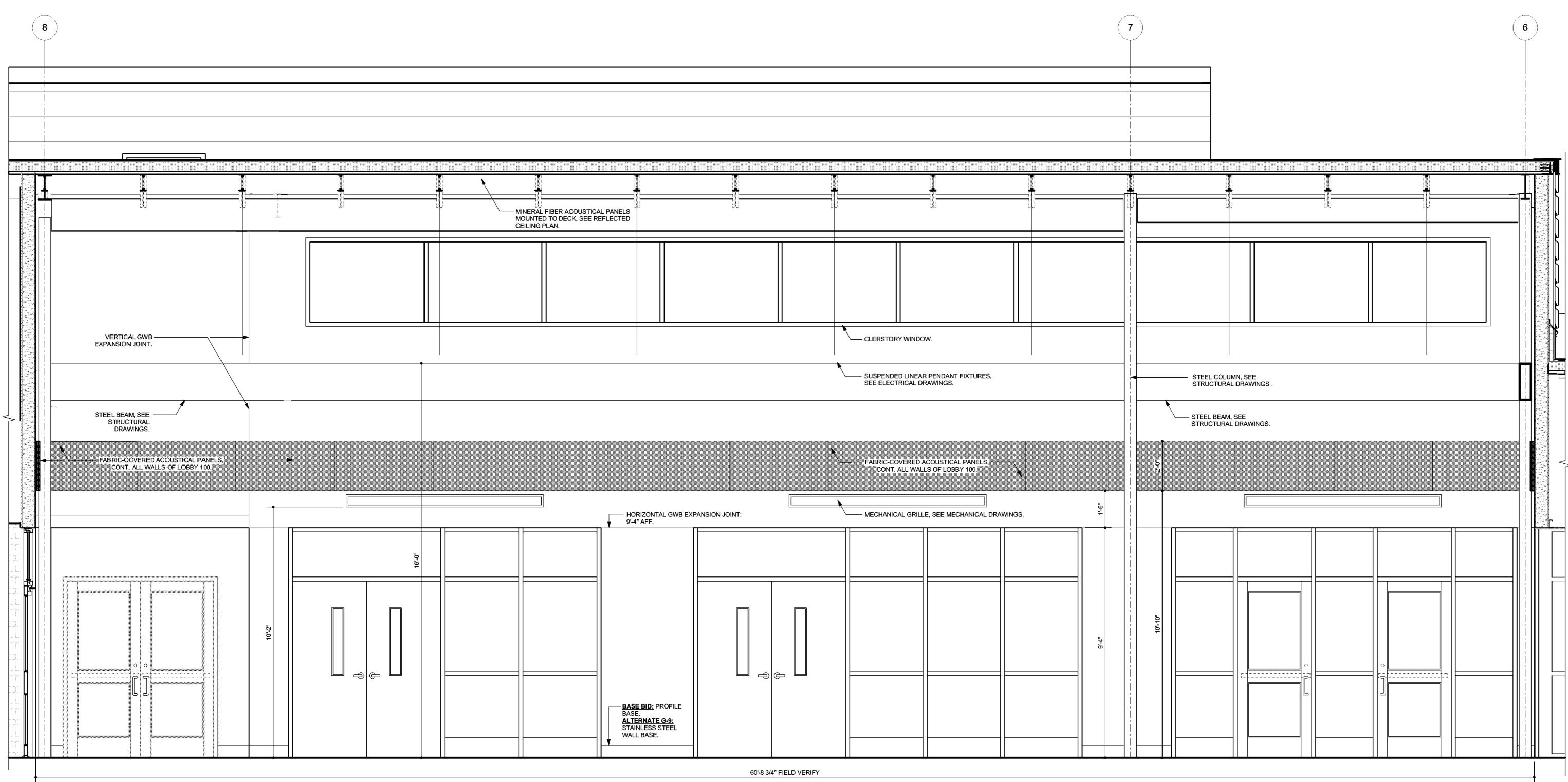


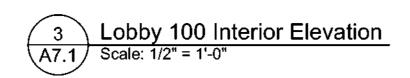


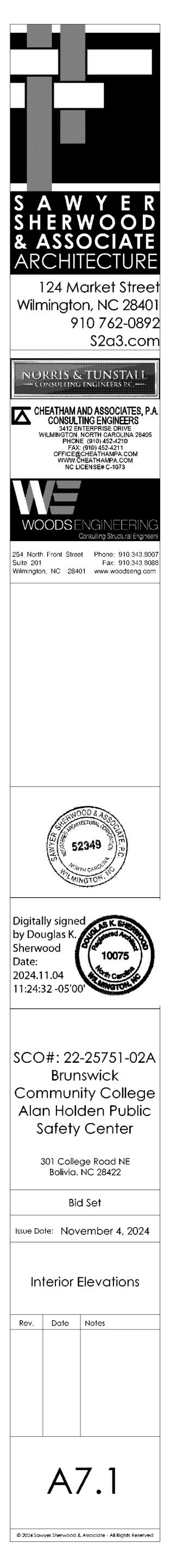


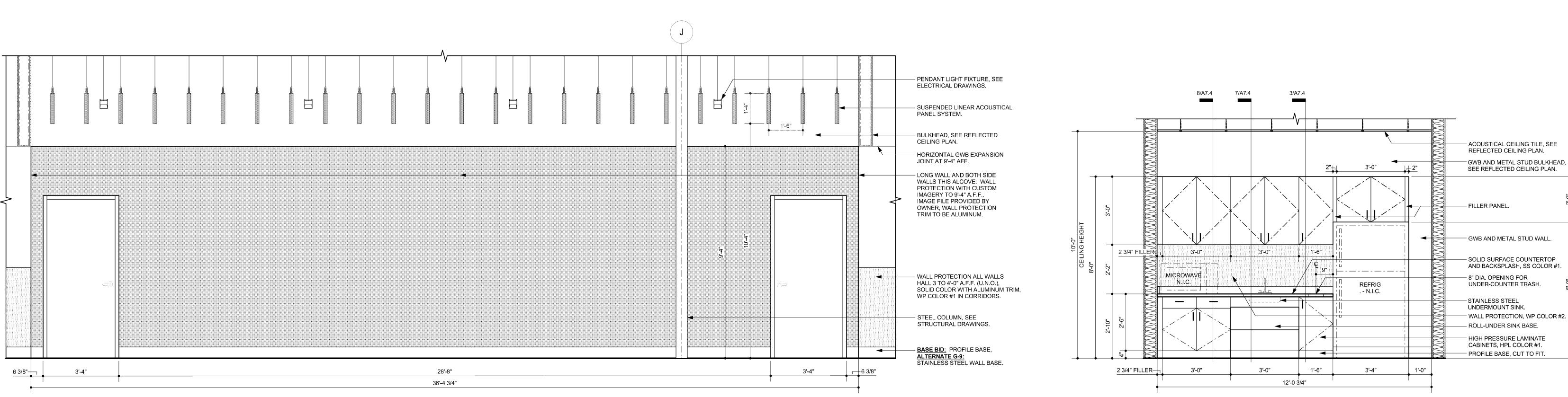


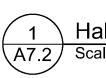


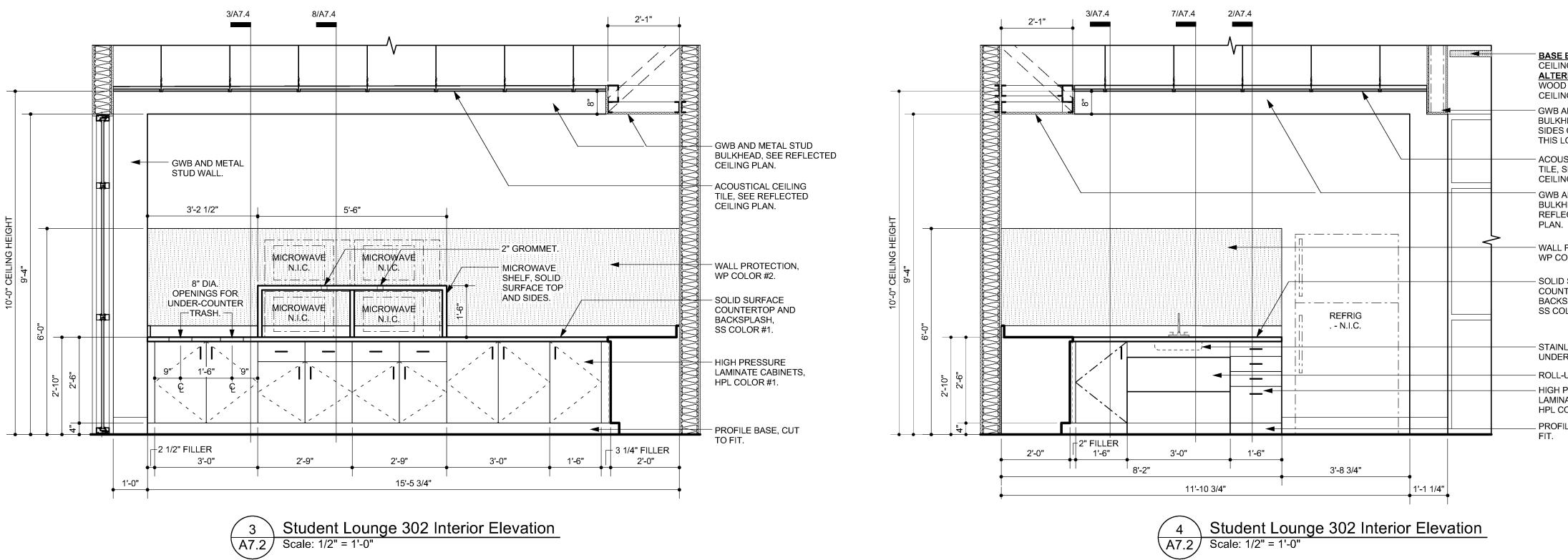


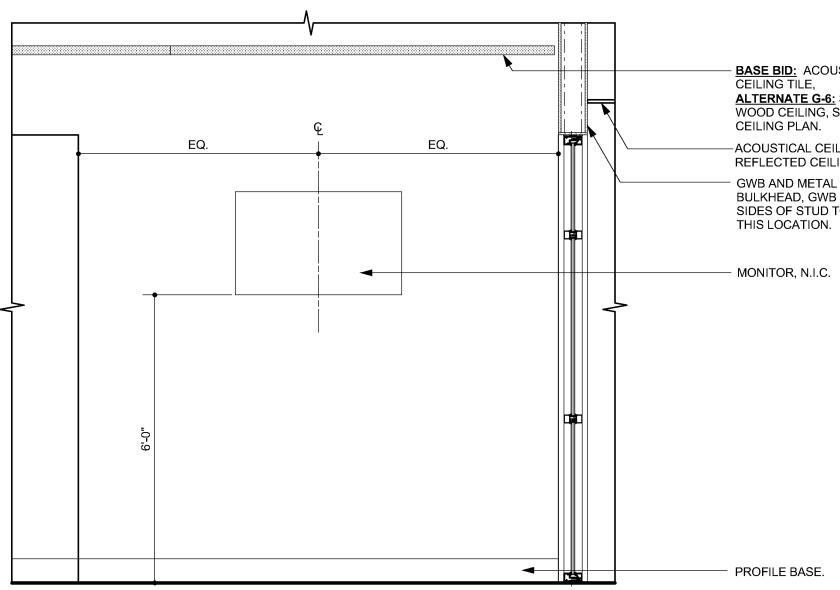


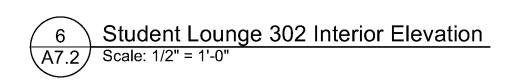








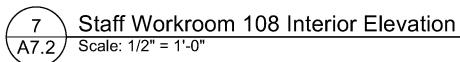


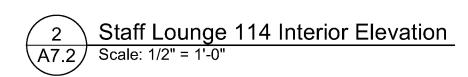


1Hall H3 Interior ElevationA7.2Scale: 1/2" = 1'-0"

- <u>BASE BID:</u> ACOUSTICAL CEILING TILE, ALTERNATE G-6: SUSPENDED WOOD CEILING, SEE REFLECTED -ACOUSTICAL CEILING TILE, SEE REFLECTED CEILING PLAN. GWB AND METAL STUD BULKHEAD, GWB BOTH SIDES OF STUD TO DECK

SIM 3/A7.4 4/A7.4 • • -**+**--**+** 1'-0" 3'-0" 3'-0" 1'-0" 2" FILLER CEII 8'-0" -6" SS COLOR #1. • • I SS COLOR #1. KNEE KNEE KNEE SPACE. SPACE. SPACE. i 🛏 -_**é**___**é**__ 1'-0" 2" FILLER 1'-0" 3'-0" 3'-0" 3'-0" 11'-2"





— <u>BASE BID:</u> ACOUSTICAL CEILING TILE, ALTERNATE G-6: SUSPENDED WOOD CEILING, SEE REFLECTED CEILING PLAN.

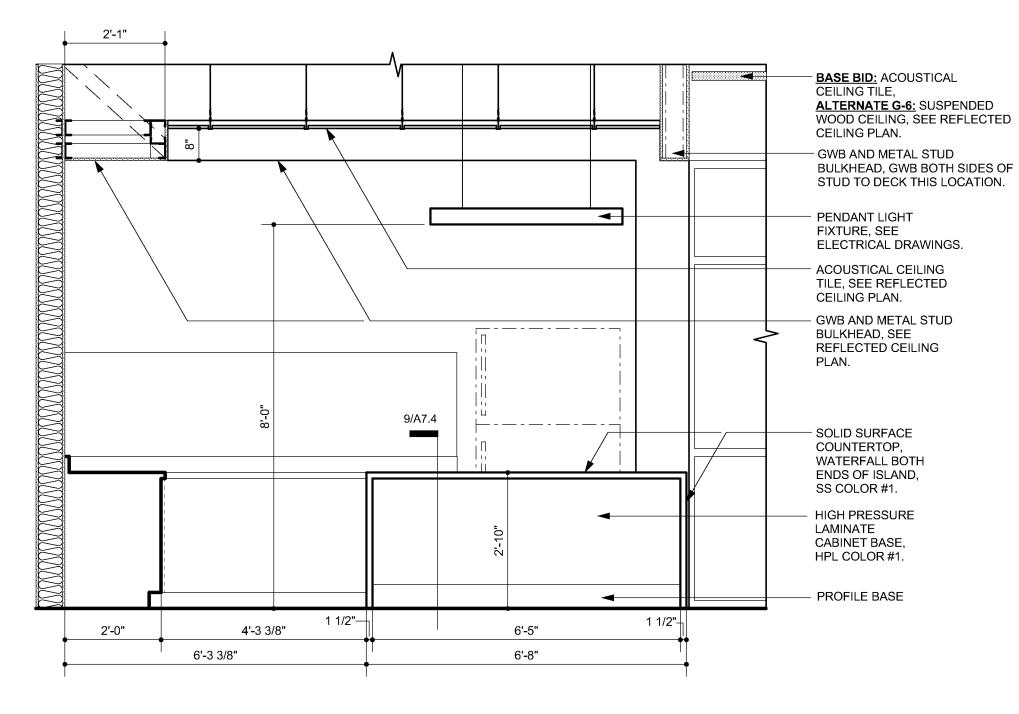
GWB AND METAL STUD BULKHEAD, GWB BOTH SIDES OF STUD TO DECK THIS LOCATION.

ACOUSTICAL CEILING TILE, SEE REFLECTED CEILING PLAN. GWB AND METAL STUD BULKHEAD, SEE REFLECTED CEILING

WALL PROTECTION, WP COLOR #2.

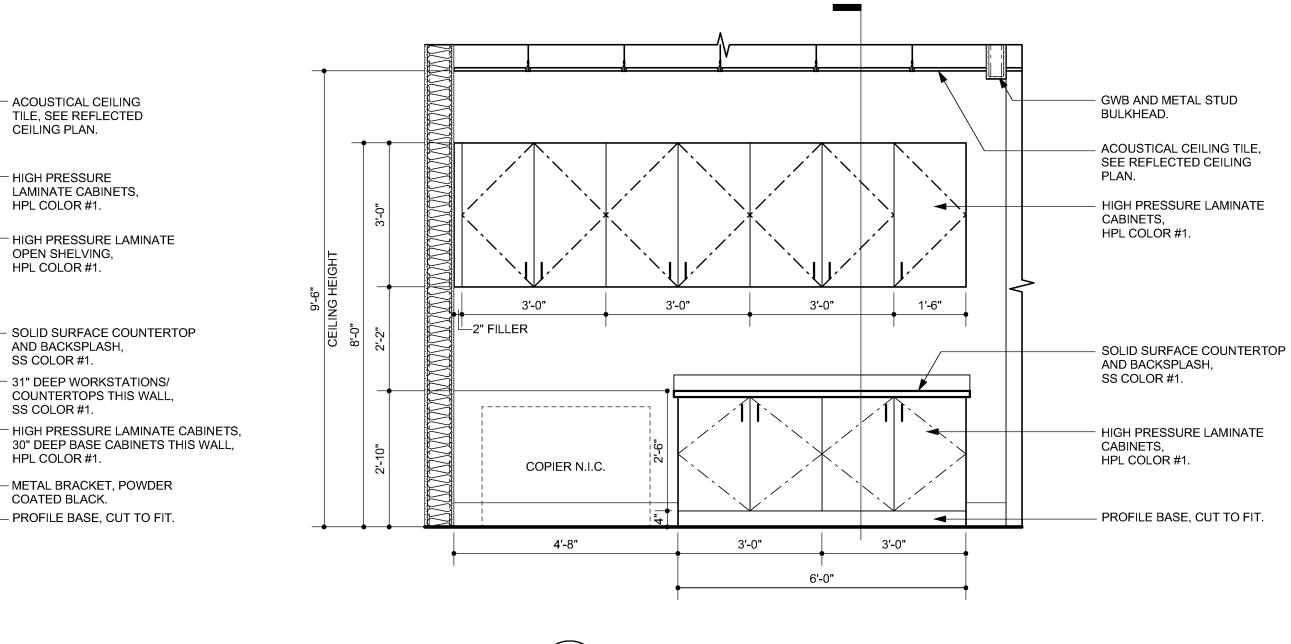
SOLID SURFACE COUNTERTOP AND BACKSPLASH, SS COLOR #1.

STAINLESS STEEL UNDERMOUNT SINK. - ROLL-UNDER SINK BASE. HIGH PRESSURE LAMINATE CABINETS, HPL COLOR #1. PROFILE BASE, CUT TO

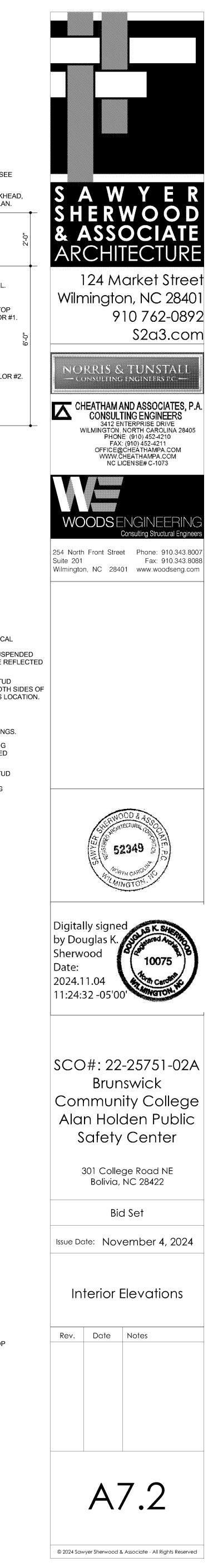


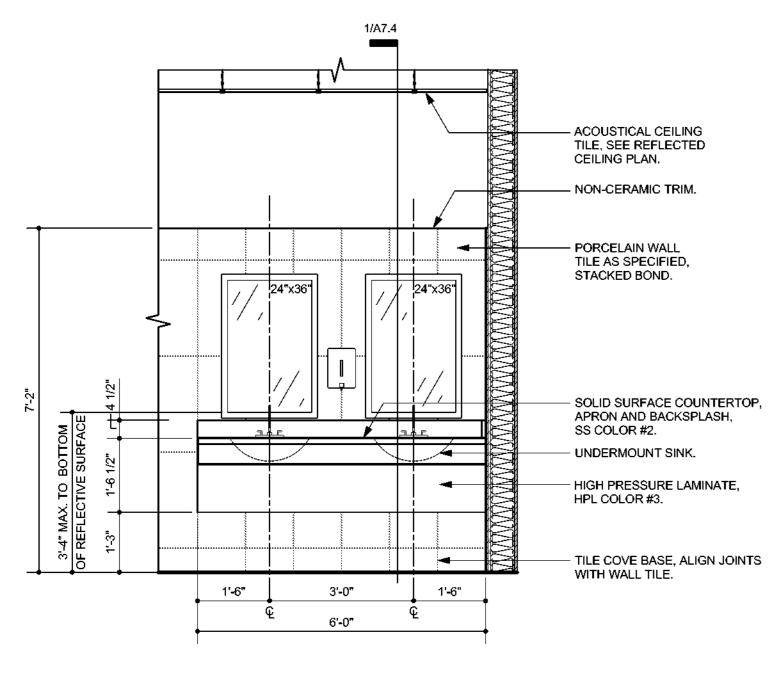
5 Student Lounge 302 Interior Elevation A7.2 Scale: 1/2" = 1'-0"

3/A7.4



8 Staff Workroom 108 Interior Elevation (A7.2) Scale: 1/2" = 1'-0"







 \overline{MM}

2'-2 1/2"

인물

1/A7.4

24"x36

V

3'-6"

7'-11"

4 Women's Locker 312 Interior Elevation A7.3 Scale: 1/2" = 1'-0"

24"x36"

ste 🕨

-

2'**-**2 1/2"

(1) Men's Restroom 304 Interior Elevation (A7.3) Scale: 1/2" = 1'-0"

- GWB AND METAL STUD BULKHED, SEE REFLECTED CEILING PLAN. - ACOUSTICAL CEILING TILE, SEE REFLECTED CEILING PLAN.

- NON-CERAMIC TRIM.

- PORCELAIN WALL TILE AS SPECIFIED, STACKED BOND. CENTER TILE GRID BETWEEN WALLS.

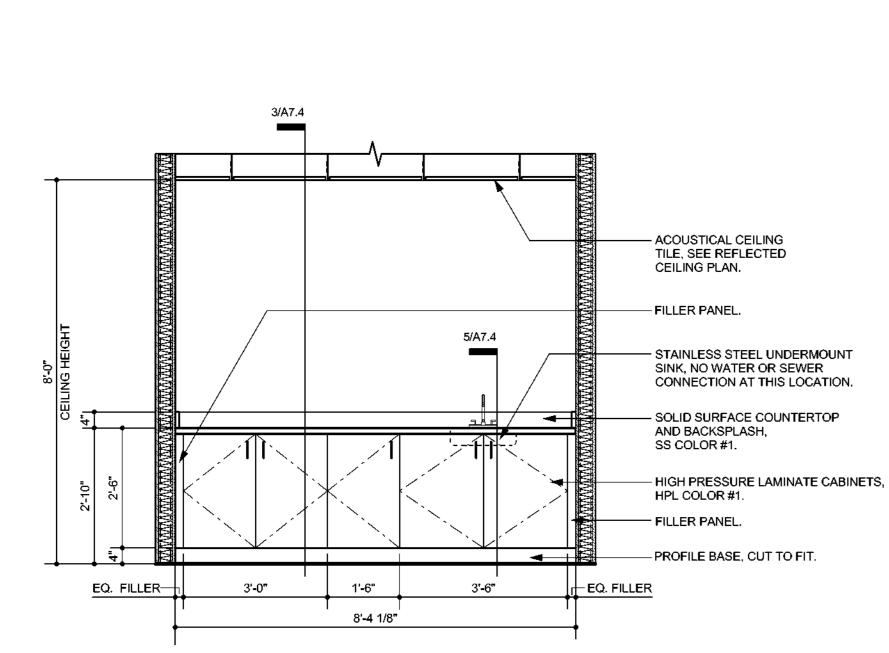
NON-CERAMIC TRIM AT ALL TILE OUTSIDE CORNERS.

SOLID SURFACE COUNTERTOP, APRON AND BACKSPLASH, SS COLOR #2.

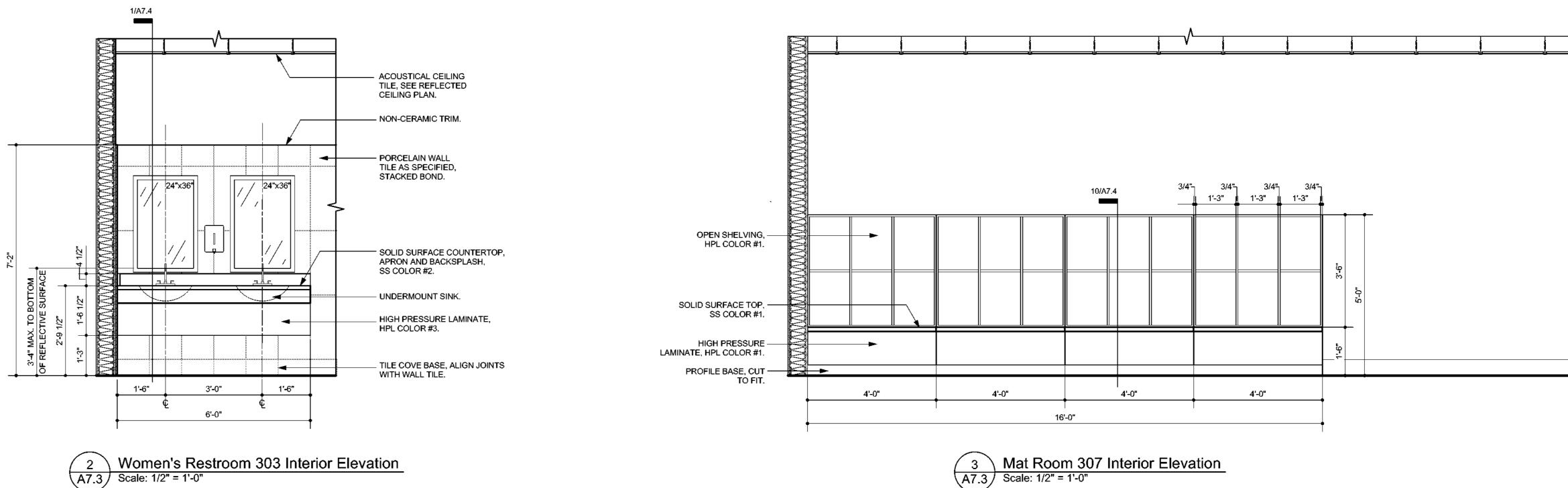
UNDERMOUNT SINK.

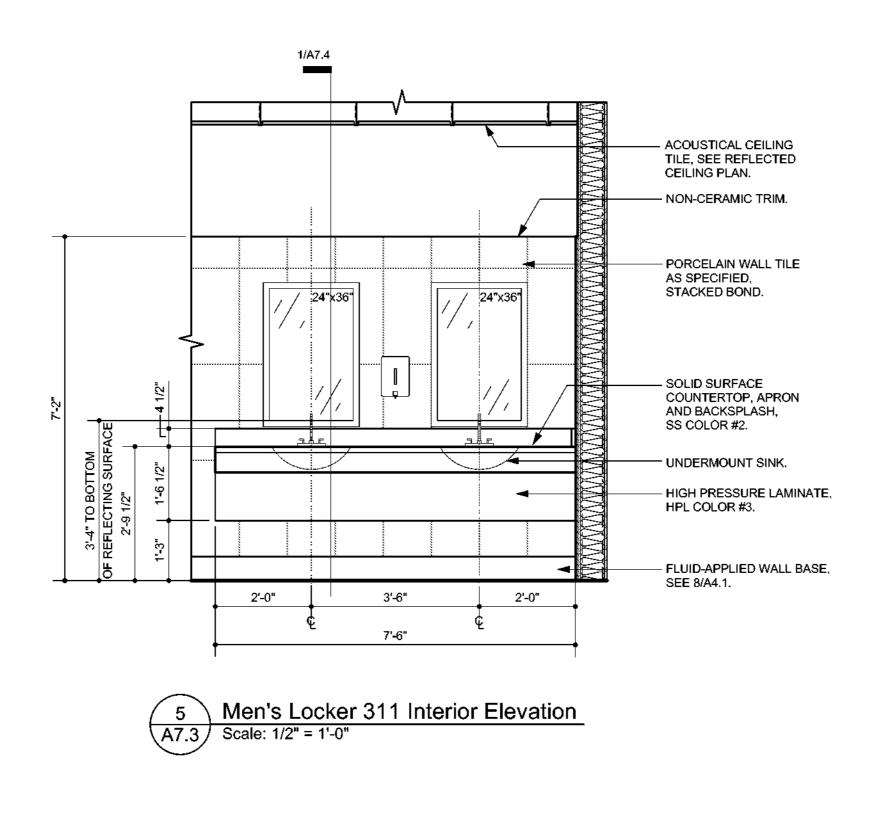
- HIGH PRESSURE LAMINATE, HPL COLOR #3.

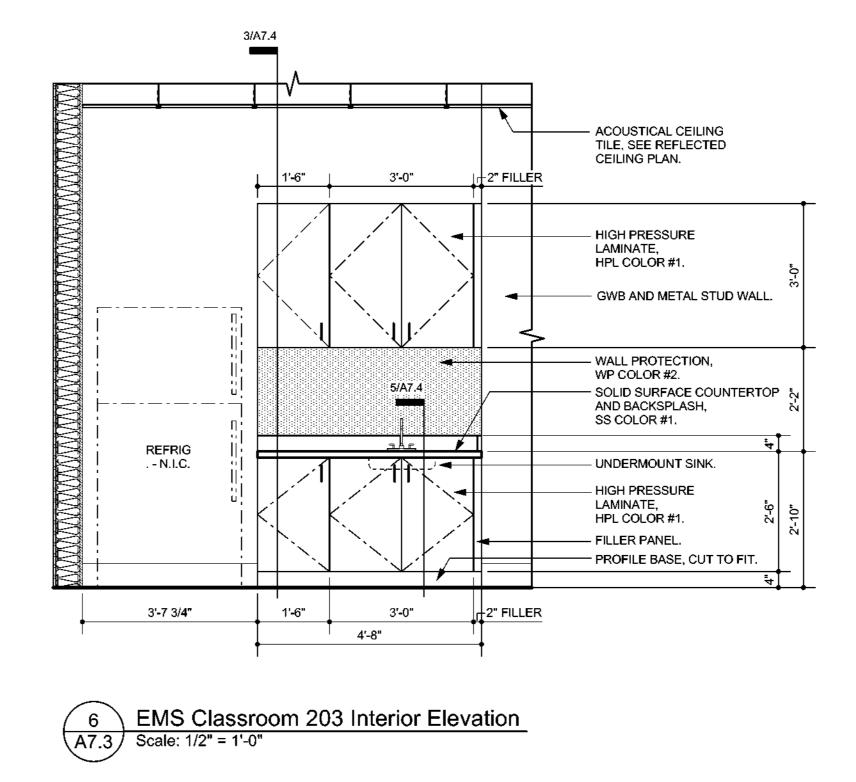
FLUID-APPLIED WALL BASE, SEE 8/A4.1.

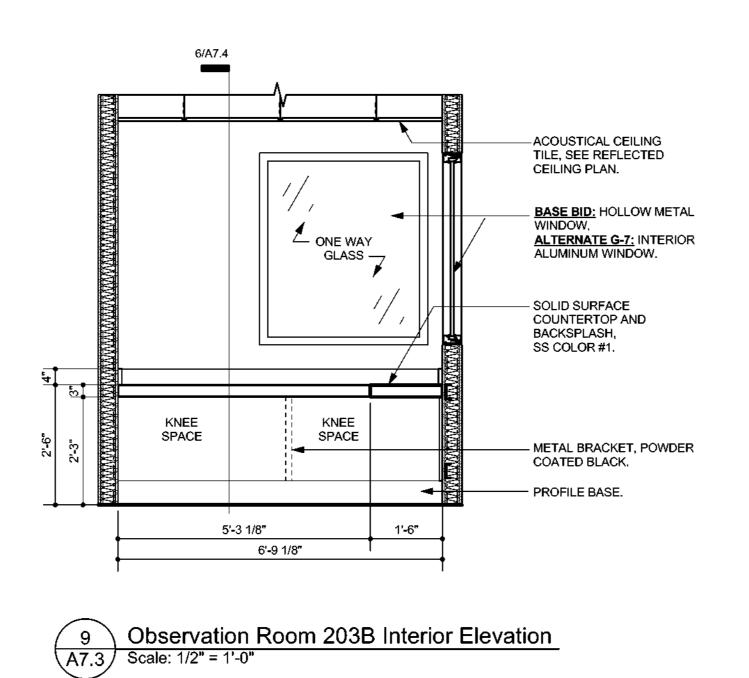


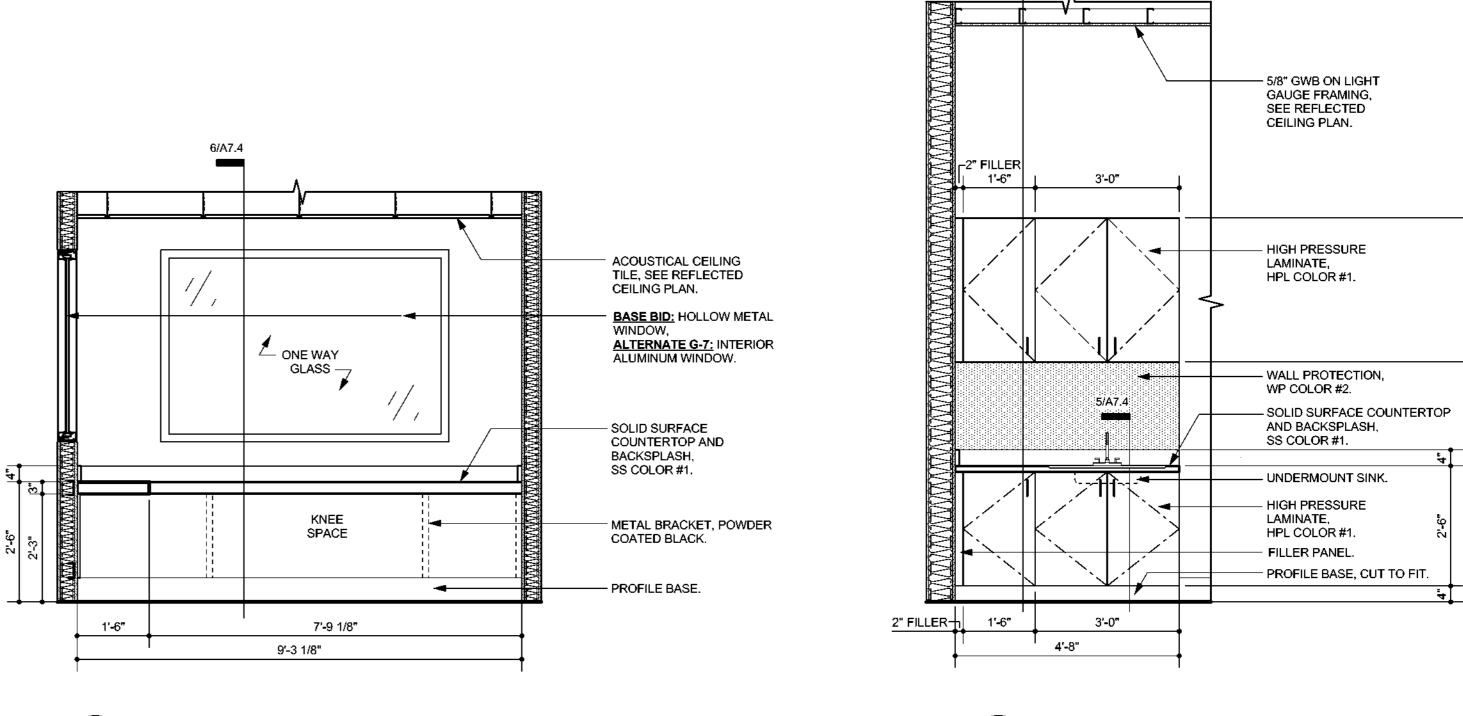
8 Mock Apartment 203C Interior Elevation A7.3 Scale: 1/2" = 1'-0"



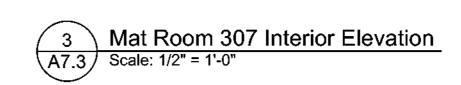


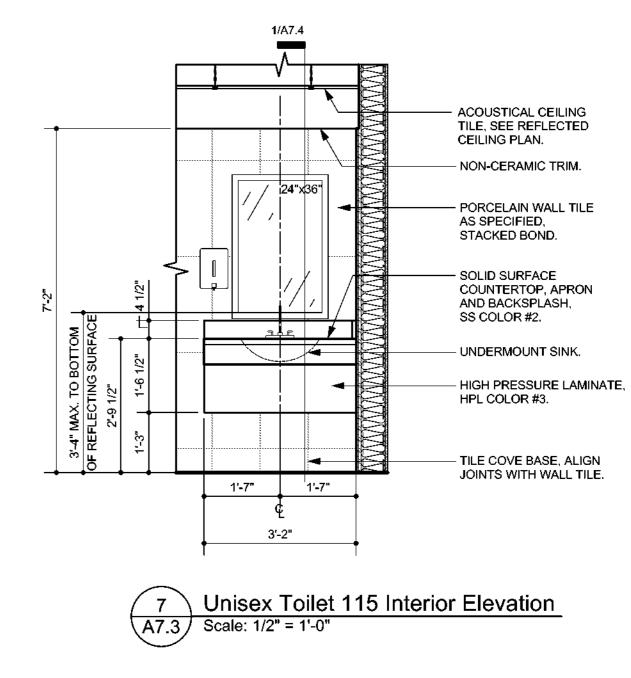






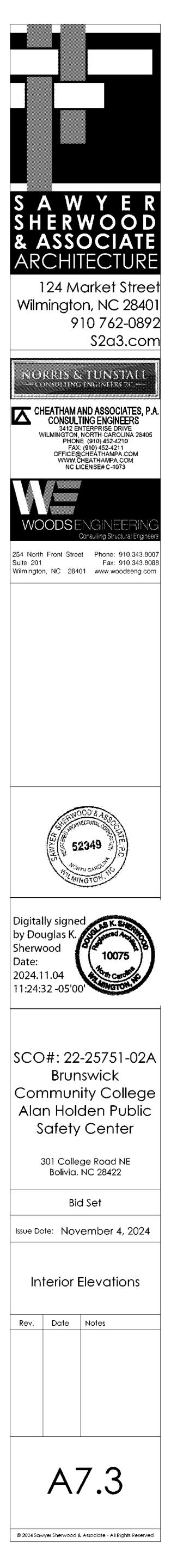
(10) Observation Room 203B Interior Elevation A7.3) Scale: 1/2" = 1'-0"



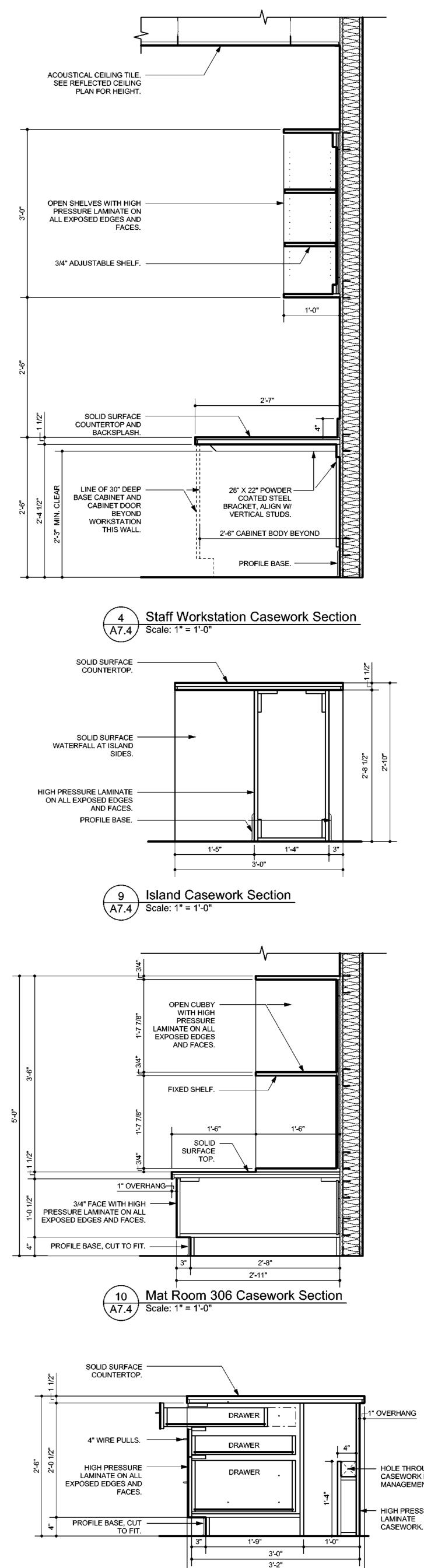


SIM 3/A7.4

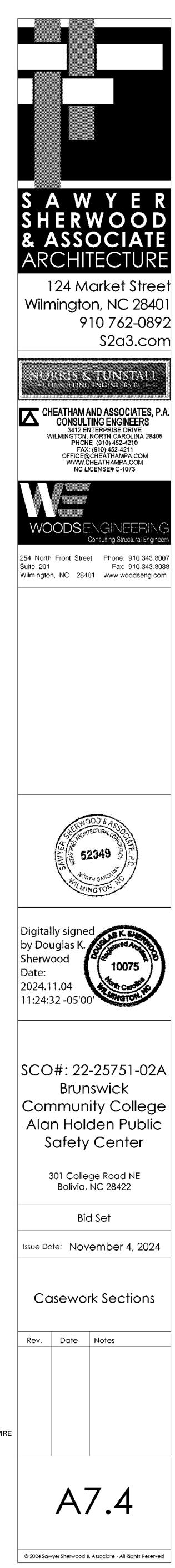
(11) Classroom 207 Interior Elevation A7.3) Scale: 1/2" = 1'-0"



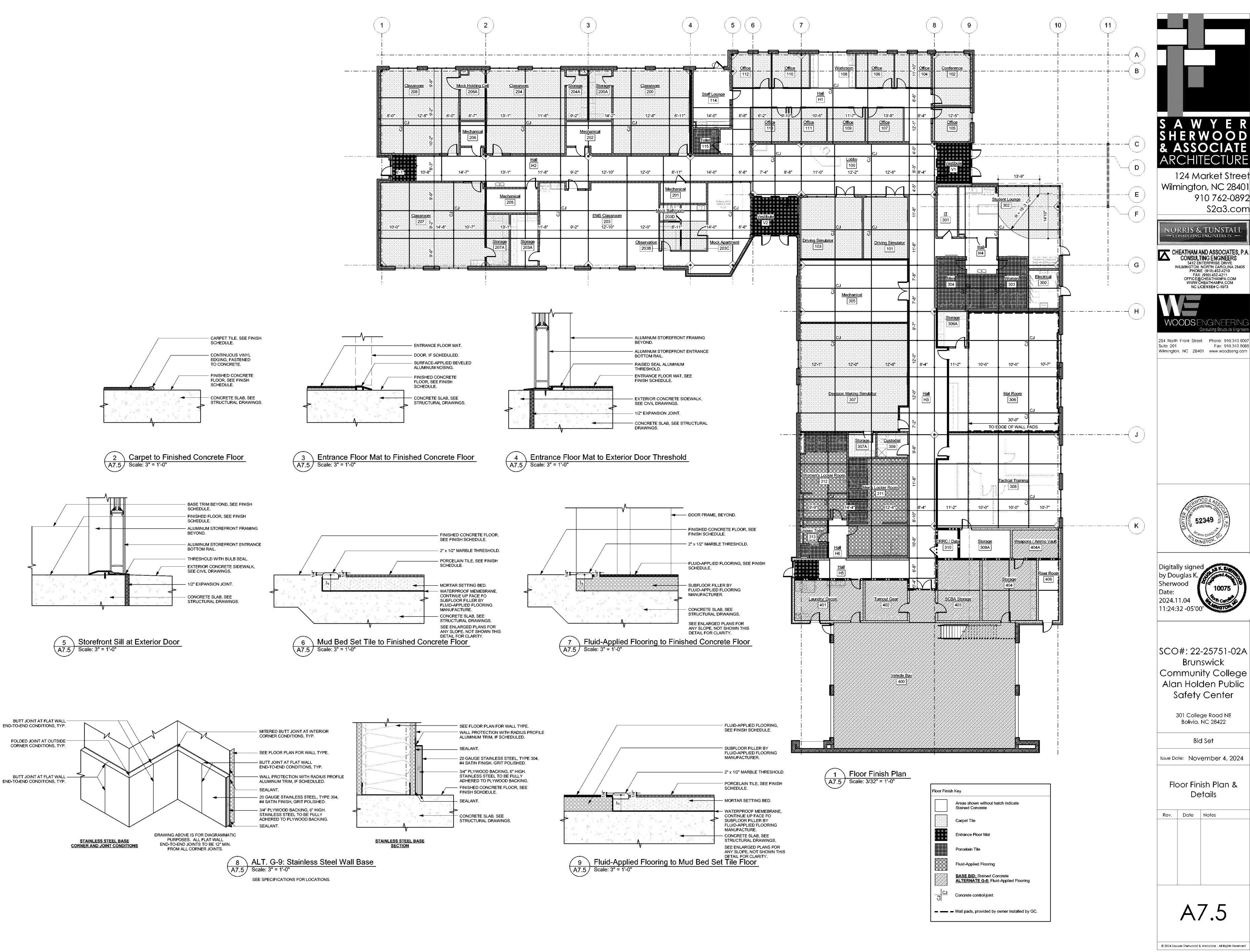




(14) Reception Desk Section (A7.4) Scale: 1" = 1'-0"



- HOLE THROUGH CASEWORK FOR WIRE MANAGEMENT. HIGH PRESSURE



1.0 CODES AND STANDARDS:

1.1 "2018 North Carolina State Building Code" and "International Building Code", 2015.

1.2 "Minimum Design Loads for Buildings and other Structures" SEI/ASCE 7-16.

1.3 "Building Code Requirements for Structural Concrete (ACI 318-14)" American Concrete Institute 2014.

1.4 "Manual of Standard Practice", Concrete Reinforcing Steel Institute, latest edition.

- 1.5 "Specification for Structural Steel Buildings (AISC 360-10)" American Institute of Steel Construction, 2011 14th Edition
- 1.6 "Structural Welding Code Steel (AWS D1.1)" and "Structural Welding Code Reinforcing Steel (AWS D1.4)", American Welding Society.
- 1.7 "Specification for the Design of Cold-Formed Steel Structural Members", American Iron and Steel Institute (AISI), S100-12.
- 1.8 "Building Code Requirements for Masonry Structures", ACI 530-13, ASCE 5-13, TMS 402-13.
- 1.9 "Standard Specifications for Joist Girders (JG-10)", "Standard Specifications for Open Web Steel Joists, K-Series (k-10)", "Standard Specifications for Long Span Steel Joist, LH Series and Deep Longspan Steel Joists, DLH Series (LH/DLH-1.1)", Steel Joist Institute

1.10 "Design Manual For Floor Decks and Roof Decks", Steel Deck Institute, latest edition.

2.0 DESIGN LOADS: Project Located in: Town of Bolivia, County of Brunswick, State of North Carolina.

2.1 Gravity Loads: (Reduced where allowed)

GRAVITY LOADS							
Location	Uniform (psf)	Concentrated (lbs) (Over 2.5'x2.5')					
Roof Loads:							
Dead Load	15						
Live Load	20	300					
Floor Loads:							
Dead Load	50						
Floor Live Loads:							
Typical ground floor	100	2000					
Mezzanine	100						
Storage	125						

2.2 Drifting Snow Loads per Referenced Code.

Pg = I =	10 psf 1.1
Ce =	0.9
Ct =	1.0
Pf =	7 psf

2.3 Risk Category = III

2.4 Wind Loads per Referenced Code.

Basic Design Wind Speed: 3-second Gust PER ASCE

> V = 156 mph Exposure "C"

> > Main Wind Force Resisting System: Building is enclosed & Internal Pressure coefficient (GCpi) = +0.18 & -0.18

Topographic Factor Kzt = 1.0

Wind Directionality Factor, Kd = 0.85								
CALCULATED WIND BASE SHEAR (VULT FOR MWFRS)								
Unit Name	Vx (k)	Vy (k)						
Main Building 149 150								

Components & Cladding

	Components and Cladding Wind Pressure (psf)										
	Walls	Area <	10ft2	Area < 20ft2		Area < 50ft2		Area < 100ft2		Area < 500ft2	
	Zone 4	50.6	-54.9	48.5	-52.8	45.3	-49.5	42.9	-47.4	37.7	-42.0
	Zone 5	50.6	-67.8	48.5	-63.5	45.3	-57.0	42.9	-52.8	37.7	-42.0
	Roof	Area <	10ft2	Area <	20ft2	Area <	: 50ft2	Area <	100ft2	Area <	500ft2
	Zone 1'	22.9	-51.5	21.0	-51.5	19.1	-51.5	18.1	-51.5	18.1	-32.4
	Zone 1	22.9	-89.6	21.0	-84.8	19.1	-75.3	18.1	-70.5	18.1	-56.2
Flat Roof	Zone 2	22.9	-118.2	21.0	-111.0	19.1	-101.5	18.1	-92.0	18.1	-75.3
	Zone 3	22.9	-161.1	21.0	-146.8	19.1	-125.3	18.1	-111.0	18.1	-75.3
	Zone 1	22.9	-61.0	21.4	-61.0	19.1	-61.0	18.1	-61.0	18.1	-61.0
	Zone 2	22.9	-70.5	21.4	-69.6	19.1	-67.2	18.1	-65.8	18.1	-65.8
Monoslope Roof	Zone 2'	22.9	-84.8	21.4	-82.5	19.1	-82.5	18.1	-80.1	18.1	-80.1
	Zone 3	22.9	-94.4	21.4	-84.8	19.1	-75.3	18.1	-65.8	18.1	-65.8
	Zone 3'	22.9	-132.5	21.4	-118.2	19.1	-99.1	18.1	-84.8	18.1	-84.8

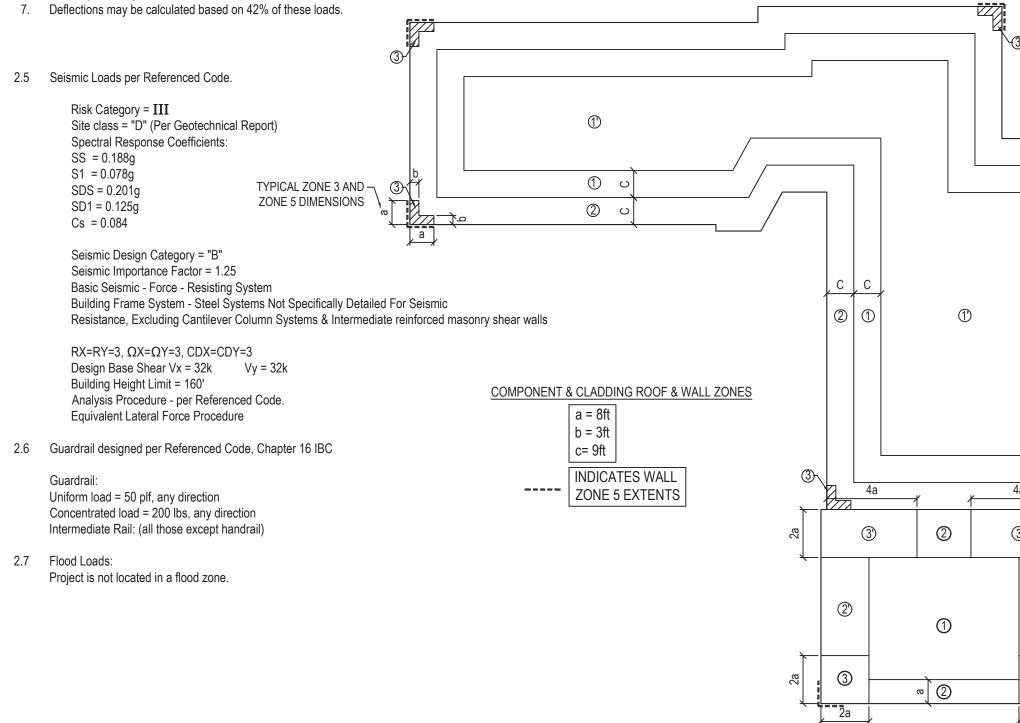
Areas noted are effective wind areas as per ASCE 7, 26.2 definitions.

See figures this sheet for Zone locations.

Plus and minus signs signify pressures acting toward and away from surfaces, respectively. Design pressures shown in table are strength design wind pressures. Allowable stress design wind pressures may be

calculated by factoring the pressures by 0.6. Design pressures for effective wind areas between those noted in schedule may be interpolated.

Tributary area = greater of LxW or LxL/3.



<u>KEY PLAN -</u> AREA A

- 3.0 FOUNDATIONS:
- 3.1 Foundation design is based on geotechnical report no. 22:33895 dated November 14, 2023 and 22:34536 dated April 25, 2024 by ECS Southeast, LLC. Bolivia, NC. These reports are available in the project manual. The recommendations contained in this report are for the Contractor's information only.
- 3.2 Footings shall bear on strata capable of sustaining a minimum bearing pressure of 1500 psf.
- 3.3 Top of footing (T/FTG) elevations are shown on the drawings or are to be determined by the Contractor in the field in accordance with the guidelines set forth in the drawings.
- 3.4 Bottom of exterior footings, grade beams and walls shall bear at a minimum depth of 1'-0" below final grade for frost protection.
- 3.5 Testing and Inspection: a. All areas to have slabs on grade shall be proof rolled in accordance with and under observation of the Geotechnical Engineer and approved prior to preparation for concrete placement.
- b. All foundation bearing strata shall be inspected and approved by the Geotechnical Engineer prior to any concrete placement.
- c. Geotechnical Engineer shall be the sole judge as to suitability of all foundation and/or slab bearing strata.
- d. Footing bearing elevations shall be adjusted in the field as required to meet the design bearing pressures by additional excavation or compaction and/or backfilling or by other means acceptable to the Geotechnical Engineer.
- 3.6 Undercutting to remove existing fill beneath footings and slab shall be performed at the direction of the Geotechnical Engineer.

3.7 Engineered Fill: All fill material shall be selected in accordance with the Geotechnical Report Material shall be a clean, low plastic soil with a plasticity index less than 30 (less than 15 is preferred), liquid limit less than 50, and unit weight of 120 pcf (+ 5 pcf)

- 3.8 Compaction: All fill shall be placed in loose lifts not exceeding 8 inches in thickness and compacted to a minimum of 96 percent Standard Proctor (ASTM D-698) except that the top 12 inches shall be compacted to a minimum of 98 percent Standard Proctor. Moisture shall be controlled to within 3 percent above or below optimum content.
- 3.9 Remove all topsoil and organic materials. The stripping should extend at least 10' beyond the proposed construction limits.
- 3.10 Contractor shall review all construction considerations as outlined in the Geotechnical report and bid accordingly.
- 4.0 CONCRETE:

4.1 Concrete Strength:

- All concrete shall be in accordance with the American Concrete Institute (ACI) 301 and 318.
- 4.2 Concrete shall have a 28 day compressive strength and density as follows:

CONCRETE STRENGTH SCHEDULE									
Location	Concrete Strength	Density	Comments						
Footings, Grade Beams	3,000 psi	±145 pcf							
Interior Slab-on-grade	See Schedule S3 sheets	±145 pcf							
Elevated Slab on Deck.	3,000 psi	±145 pcf							
Exterior Slab on Grade	See Schedule S3 sheets	±145 pcf							
CMU Grout Fill.	3,000psi pea gravel mix,	±145 pcf	Slump 8"-11" or grout per Structural Masonry Notes, this sheet.						
Washer Pad	3,500 psi	±145 pcf							

4.3 Concrete Mix Designs:

- a. Submittals: Submit mix designs of each proposed concrete mix not less than 15 days prior to the start of work. b. Mix designs, including water, cement ratios and slumps, shall be prepared in accordance with ACI 301-05, Section 4, Cement shall conform to ASTM C 150 Type 1 or at contractor's option, ASTM C 595 Type IP where fly ash is permitted. Normal weight aggregate shall conform to ASTM C 33 and light weight aggregate shall conform to ASTM C 330. No admixtures containing calcium chloride shall be permitted in any concrete.
- c. Aggregate size shall be #67 stone for supported slabs or other formed concrete elements; #57 stone for slabs on grade and footings or other concrete elements formed from and poured against earth; #89 stone for masonry grout. d. Water reducing admixture shall be used in all concrete.
- e. Air entraining admixture in accordance with ACI 301 shall be used in all concrete exposed freezing and thawing during construction or service conditions f. Concrete subjected to freezing/thawing shall have a maximum water/cement ratio of 0.45 and shall contain the amount of air
- entraining agent specified in ACI 301-05 Section 4. All columns and walls shall have superplasticizer admixture
- 4.4 Curing: See specifications for curing method options and apply within two (2) hours after completion of finishing to all concrete flatwork and walls, U.N.O., other than footings and grade beams.
- 4.5 Use a non-corrosive, non-chloride accelerating admixture in concrete exposed to temperatures below 40°. Uniformly heat the water and aggregates to a temperature of not less than 50° Place and cure concrete in accordance with ACI 306.
- 4.6 When hot weather conditions exist, place and cure concrete in accordance with ACI 301. Cool ingredients before mixing to maintain concrete temp. at time of placement below 90°.
- 4.7 Reinforcing in all abutting concrete, including footings shall be continuous through or around all corners or intersections. Dowels or splices shall be equal in size and spacing to the reinforcing in the abutting members.
- 4.8 Refer to architectural drawings for door and window openings, drips, reglets, washes, masonry anchors, brick ledge elevations, slab depressions and miscellaneous embedded plates, bolts, anchors, angles, etc.
- 4.9 Refer to plumbing, mechanical and electrical drawings for underfloor, perimeter and other drains and for sleeves, outlet boxes, conduit, anchors, etc. The various trades are responsible for their items.
- 4.10 Base plates, anchor rods, support angles and other steel exposed to earth or granular fill shall be covered with a minimum of 3" of concrete. 4.11 Fill slabs, not shown on the structural drawings and all exterior slabs to be broom finished, shall be reinforced with a minimum of 6 x 6 x
- W2.0 x W2.0 WWM unless noted otherwise on other drawings.
- 4.12 Finish surfaces to the following tolerances, according to ASTM E 1155, for a randomly trafficked floor surface: a. Specified overall values of flatness, F(F) 35; and of levelness, F(L) 25; with minimum local values equal to $\frac{3}{5}$ of the overall flatness
- and levelness values. b. The composite F(F) and F(L) numbers shall be measured and reported within 72 hours after completion of slab concrete finishing operations and before removal of any supporting shores.
- 4.13 Non-shrink grout shall be pre-mixed, non-corrosive, non-metallic, non-staining containing silica sands, Portland cement, shrinkage compensating and water reducing agents. Product shall only require the addition of water. Minimum compressive strength shall be 2500 psi after one day and 7000 psi after 28 days. Grout shall be free of gas producing or air releasing and oxidizing agents and contain no corrosive iron, aluminum or gypsum.
- 4.14 Provide concrete grout not mortar for reinforced masonry lintel and bond beams where indicated on drawing or as scheduled.
- 4.15 Tolerance for anchor rods and other embedded items shall be per the AISC Code of Standard Practice Section 7.5.
- 4.16 Unless otherwise shown in the architectural drawings, provide $\frac{3}{4}$ " chamfers at all column, wall, slab or beam edges that are exposed to view in the finished structure.

1 17	Concrete cover for cast-in-place concrete reinforcement:	
4.17	Concrete cast against & permanently exposed to earth:	3"
Сс	oncrete exposed to earth or weather:	
	No. 6 through No. 18 Bars:	2"
	No. 5 Bar and smaller:	
Сс	ncrete not exposed to weather or in contact with ground:	
	Slabs, Walls, Joists:	
	No. 11 Bar and smaller:	3⁄4"

Beams, Columns: Primary Reinforcement, Ties, Stirrups:... 5.0 REINFORCING STEEL:

- 5.1 Reinforcing shall be domestic new billet steel conforming to ASTM A615, Grade 60 or 60S including stirrups and ties, except that reinforcing which is required to be welded shall conform to ASTM A706.
- 5.2 Field bending of concrete reinforcing steel is not permitted.

5.3 Welded wire mat and fabric shall conform to ASTM A184 and A185 respectively and shall be provided in flat sheets. Welded wire mat/fabric shall be lapped 0'-6" at all splices. 5.4 Bar Splices:

		f'c = 3,000psi	f'c = 4,000psi		= 3,000psi f'c = 4,000psi f'c = 5,000psi		c = 5,000psi
Bar Size	Ld (in)	Class "B" Lap Splice (in)	Ld (in) Class "B" Lap Splice (in)		Ld (in)	Class "B" Lap Splice (in)	
#3	17	22	15	19	13	17	
#4	22	29	19	25	17	23	
#5	28	36	24	31	22	28	
#6	33	43	29	37	26	34	
#7	48	63	42 54		38	49	
#8	55	72	48 62		43	56	
#9	62	81	54	70	48	63	
#10	69	90	60	78	54	69	
#11	76	98	66	85	59	76	

NOTES:

1. Values are based on normal weight concrete. 2. Ld = minimum embed of rebar

3. Class "B" lap splice refers to minimum distance bars must be lapped for a full tension splice.

4. For Epoxy Coated bars multiply table values by 1.2

5. For Beam Top Bars multiply table values by 1.3 6. For Top Bars in Slabs 13in and thicker multiply table values by 1.3

STR	UCTURAL MASONRY:
All s	tructural masonry shall con
a.	crete Masonry Units (CMU) Units shall be lightweight than 2,000psi in accordar Design compressive strer
Mort	ar shall conform to ASTM (
Neith	ner type "N" mortar nor ma
Grou a. b. c. d. e. f. g. h. i.	ting: Grout shall conform to AS coarse grout with a slump sheet. All bond beams shall be f All masonry wall cells or o otherwise on the drawing Mortar fill is not permitted All masonry cells or caviti permitted. Vertical grouting shall be (1) Low lift grouting sha exceed 4'-0" in heig (2) High lift grouting is be provided at the b Grouting shall be stopped Grouting of masonry bear Consolidate pours with m occured.
a. b. c. d. e. f. g.	onry Reinforcing: Foundation dowels may s replacement of the founds Spliced reinforcing shall b splices shall be wired tog Vertical reinforcing bars s intervals not exceeding 4 Rebar Positioner AA225 of Horizontal joint reinforcing All horizontal joint reinforcing horizontal reinforcing in b All CMU walls shall have 148"Ø or W1.7) side rods
	All st Conc a. b. Morta Neith Grou a. b. c. d. e. f. g. h. i. Maso a. b. c. c. d. e. f. g. h. c. f. g. h. j. g.

7.0	STEEL JOISTS:			
7.1	All steel joists shall be designed, fabricated, and erected in accorda			
7.2	Joist ends shall be fixed and bridging shall be placed prior to applicat			
7.3	 End Support: a. Minimum bearing requirements shall be in accordance with the provided by the joist manufacturer where required to accommode. b. K Series joists shall be welded to supports with ¹/₈" fillet welds, or c. Bolt joists as indicated below to structural steel supports at coluc connections for each joist adjacent to centerline. K Series: 2 @ 			
7.4	Joist bridging:a. Shall be placed in accordance with the SJI Specification U.N.O Series joists.b. Bridging that terminates at or is interrupted by structural steel m bridging for ends of bridging lines terminating at walls/beams.			
7.5	Holes in joist chords are not permitted, except at bearing and bolted of			
7.6	All joists (40) forty feet and longer shall require a row of bolted bridgin			
8.0	STRUCTURAL STEEL:			
8.1	All structural steel shall be of the grades indicated below, unless note Rolled shapes ASTM A992 Gr. 50 Steel pipe ASTM A53, Type E or S, Grade B, Fy-35ksi Structural tubing ASTM A500, Grade B, Fy-46ksi Plates and bars ASTM A36 U.N.O. Anchor rods ASTM F1554, Grade 36 U.N.O. Miscellaneous ASTM A36 U.N.O.			
8.2	All structural steel shall be detailed, fabricated and erected in accord responsible for the design of connections not shown on the structura shall retain a professional engineer registered in the state where the containing connection design. A note shall accompany the drawings			
8.3	 Connection Design: a. Generally, connections shown on the drawings are schematic a b. Connections shall be designed for one-half (1/2) the allowable Beams'' tables in the AISC "Manual of Steel Construction", 14 reactions. 			
8.4	 Bolted connections: a. Bearing type connections shall be snug tight with A325N or A4 U.N.O. At single shear plate connections, provide bearing type tight. <u>DO NOT</u> over torque bolts. b. Protruding bolt heads, shafts or nuts shall not extend nor prohi its correct location and elevation. c. Connection designer is responsible for verifying the axial capaci increased or plates added to maintain required capacity. d. Bolted connections shall be assembled and inspected in accorr High-Strength Bolts). 			
8.5	 Welded connections: a. All welding shall be in accordance with the "Structural Welding Edition. b. Electrodes for welding shall comply with the requirements of Tac. At Moment Connections and Braced Frames Provide filler Meta E. As determined by AWS classification or Manufacturer Certification of Manufacturer			

0	minimum field weld shall be 1/
7	All re entrant corners (such as

8.8 AESS Finish Schedule:

Location	FINISH CATEGORY
Exterior	AESS 3
Interior - Braces and beams 16ft and less above top of slab	AESS 4
Interior - Beams more than 16ft above top of slab	AESS 3
Storage and Service Spaces - Columns and Braces	AESS 1
Storage and Service Spaces - Beams	SSS - Standard Structural Steel

onform to ACI 530 standards as appropriate to the material.

t cellular units conforming to ASTM C 90, Grade N-2. Concrete masonry net area unit strength shall be no less lance with ASTM C 140, with a unit weight not exceeding 95 pcf. ngth of CMU (fm) = 2,000 psi.

I C 270. Mortar shall be type "S" and shall conform to the ASTM C270 proportion requirements.

asonry cement shall be used as part of the lateral force resisting system.

ASTM C476 as specified by proportion. Masonry grout shall conform to the ASTM proportion requirements for np of 8 to 11 inches. Contractor may substitute grout with pea gravel concrete masonry fill, see note 4.2 this

filled with grout and reinforced as indicated on the drawings (details or schedules). Mortar fill is not permitted. r cavities indicated as reinforced shall be grouted for the full height of the wall, unless specifically noted ngs. Unreinforced walls indicated as grouted shall be grouted full height, unless specifically noted otherwise.

vities below grade shall be grouted solid unless specifically noted otherwise on the drawings. Mortar fill is not

low lift or high lift as follows:

shall be used for all cavity walls and may be used for all walls at the option of the Contractor. Lifts shall not s permissible only for filling of cellular masonry units and shall not exceed 12'-8" in height. Clean out holes shall

base of each grouted cell. ed $1\frac{1}{2}$ " below the top of a course to form a key at the joint.

eams or lintels shall be done in one continuous operation. mechanical vibrator and reconsolidate by mechanical vibration after initial water loss and settlement has

If be a low velocity vibrator with a $\frac{3}{4}$ " head.

slope a maximum of 1:6 to align with wall cavities or vertical CMU cores. Greater slopes will require ndation dowels

be lapped a length calculated per IBC 2107.5 OR 15" OR as shown on drawings, whichever is greatest. All aether. s shall have a minimum clearance of ³/4" from masonry and shall be held in position top and bottom and at 4'-0". Accessories for such support shall be used. Provide "AA Wire Products Company" (or approved equal) or AA239 for vertical bars and AA238 for horizontal bars or approved equal products from other suppliers. ing shall be lapped no less than 6" all splices, including corners and tees where no control joint is used.

orcing shall stop at control joints. bond beams shall be continuous through control joints.

e joint reinforcing @ 16"o.c. All joint reinforcing shall have (2) 9 gauge Is & cross rods @ 16"o.c.

6.7 Masonry contractor shall provide for and coordinate with other trades for placement of all items to be embedded or built into the masonry.

MINIMUM SPLICING LENGTH (Le FOR MASONRY		
BAR SIZE	SPLICE LENGTH	
#3	16"	
#4	22"	
#5	26"	
#6	43"	
#7	60"	

fabricated, and erected in accordance with the SJI Specifications.

dging shall be placed prior to application of any loads.

nents shall be in accordance with the SJI Specification. Extended joist ends for bearing on masonry shall be afacturer where required to accommodate bearing conditions shown on the drawings. elded to supports with $\frac{1}{8}$ " fillet welds, one each side, 2" long. low to structural steel supports at column centerlines or where joists do not space on centerlines, bolt adjacent to centerline. K Series: 2 @ $\frac{1}{2}$ " diameter bolts (minimum)

ance with the SJI Specification U.N.O. and shall be horizontal rods or angles at top & bottom chords for all K t or is interrupted by structural steel members, shall be welded or bolted thereto. Provide diagonal ("X")

nitted, except at bearing and bolted connections.

r shall require a row of bolted bridging to be in place before slackening of hoisting lines.

grades indicated below, unless noted otherwise on plans or details.

iled, fabricated and erected in accordance with the AISC Code of Standard Practice. The fabricator is nnections not shown on the structural drawings. For the purpose of the connection design, the fabricator neer registered in the state where the project is located. The engineer shall seal and sign each shop drawing A note shall accompany the drawings stating that the seal is for "Connection Design Only".

nown on the drawings are schematic and are intended to show the relationship of the members. gned for one-half (1/2) the allowable uniform load on the member, as defined in Part 3, "Allowable Loads on "Manual of Steel Construction", 14th Edition, See plan notes for design methodology and minimum

shall be snug tight with A325N or A490N bolts, U.N.O. Oversized and long-slotted holes are NOT permitted ate connections, provide bearing type fasteners with horizontal short slotted holes. All bolts shall be snug e bolts.

afts or nuts shall not extend nor prohibit the application of architectural finishes or placement of steel deck at vation. esponsible for verifying the axial capacity after a section is reduced for bolt holes. Member size may be d to maintain required capacity.

e assembled and inspected in accordance with RCSC-2009 (Specification for Structural Joints Using

ordance with the "Structural Welding Code - Steel" (AWS D1.1) of the American Welding Society, Latest all comply with the requirements of Table 4.1.1 of the AWS code.

and Braced Frames Provide filler Metal that has a minimum CVN Toughness of 20 ft-lbs at minus 20 degrees F. As determined by AWS classification or Manufacturer Certification. d. Proof of welder certification shall be available at the job site during times of inspection.

8.6 Minimum plate thickness shall be 3/8" U.N.O.; minimum bolt diameter shall be 3/4-inch U.N.O.; minimum shop weld shall be 3/16" and 1/4-inch U.N.O.

8.7 All re-entrant corners (such as copes and blocks) shall be cut and shaped notch free with a radius of at least 1/2-inch.

9.0 STEEL DECK:

9.1 See deck schedule on S4 sheets for steel decking requirements

- 9.2 For steel roof deck spans, mechanically fasten side laps at mid-span using, self-tapping TEKS No. 10 or larger machine screws or as noted on plan. Provide additional sidelap fasteners where noted on plan. Fasten roof deck to supporting members as noted on plan.
- 9.3 Do not hang pipes or ducts from steel roof deck. Fasten roof deck to supporting members as noted on plan.

9.4 NON-COMPOSITE FLOOR DECK:

- a. Deck shall be 2" 20 gauge, galvanized, composite floor deck. Basis of design is Vulcraft 2VLI19. Other manufacturer's, including but not limited to New Millennium and Epic Metals, are also acceptable.
- b. Deck shall be galvanized per ASTM A924-94 (G60) c. Fasten composite floor deck to supporting members by not less than $\frac{3}{4}$ " puddle welds or elongated welds of equal perimeter, spaced not more than 12" o.c. with a minimum 2 welds per unit at each support, unless a composite stud is welded in that location.

10.0 CONSTRUCTION AND SAFETY:

10.1 Woods Engineering P.A.'s responsibility is limited to the details and information shown on these drawings. It is the responsibility of the Contractor to provide adequate safety measures required by local codes as well as OSHA Standards for the Construction Industry. This should include, but not be limited to the following: Shoring to protect new as well as existing structures. Necessary Scaffolding.

> Material Handling Equipment. Trench Boxing.

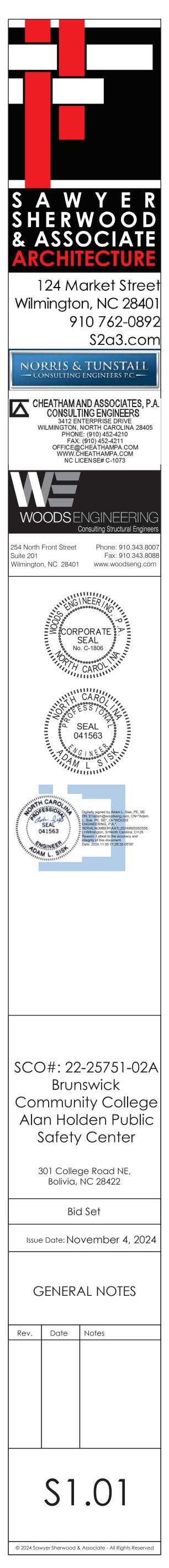
- 11.0 SHOP DRAWING SUBMITTAL:
- 11.1 See Project Manual
- 11.2 Contractor shall submit Electronic copies (PDF format) of each shop drawing for review. Shop drawings shall be reviewed by the Contractor prior to submission to the Engineer. The Contractor shall allow 10 working days for shop drawing approval.
- 11.3 The following items require delegated design by an engineer licensed in the state of North Carolina. -Steel connection design -Exterior Cold-Formed metal framing design

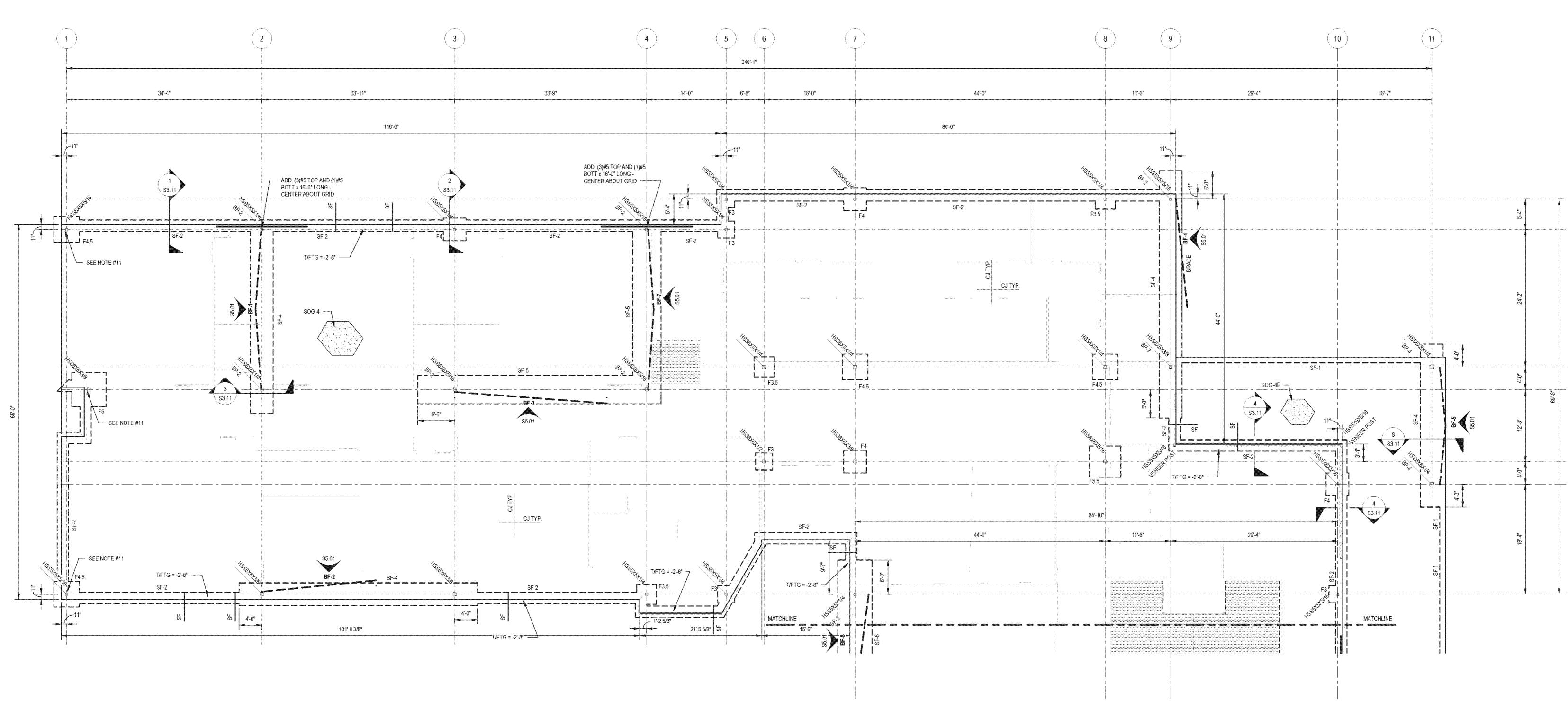
HIP TRUSS

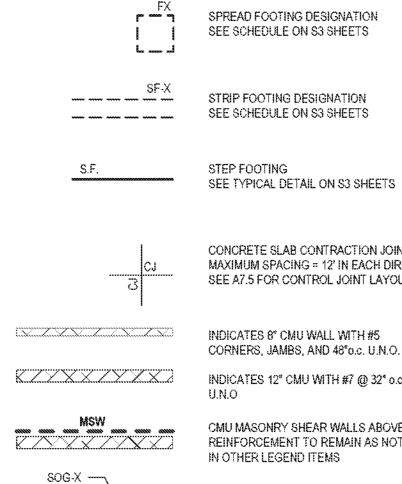
- 12.0 SPECIAL INSPECTIONS:
- 12.1 Refer to Specification Section 014533 and for all Special Inspections requirements.

ABBREVIATIONS

@	AT	HT	HIP TRUSS
&	AND	IFM	INSIDE FACE OF MASONRY
AB	ANCHOR BOLTS	INT	INTERIOR
ACI	AMERICAN CONCRETE INSTITUTE	JBE	JOIST BEARING ELEVATION
ADDL	ADDITIONAL	JT	JOINT
AFF	ABOVE FINISHED FLOOR	K	KIP-S
AISC	AMERICAN INSTITUTE OF STEEL	KB	KICKER BRACE
	CONSTRUCTION	KSI	KIPS PER SQUARE INCH
AISI	AMERICAN IRON AND STEEL	(L)	LONG SIDE REINFORCEMENT
	INSTITUTE	LB	LONG BAR
ALT	ALTERNATE	LBS	POUNDS
ARCH	ARCHITECTS - ARCHITECTURAL	LLH	LONG LEG HORIZONTAL
ASTM	AMERICAN SOCIETY FOR	LLV	LONG LEG VERTICAL
	TESTING AND MATERIALS	LO	LOW
AWS	AMERICAN WELDING SOCIETY	LOC	LOCATION
B, BOTT	BOTTOM	LWC	LIGHT WEIGHT CONCRETE
BCX	BOTTOM CHORD EXTENSION	MAX	MAXIMUM
BFF	BELOW FINISHED FLOOR	MC	MOMENT CONNECTION
BLDG	BUILDING	MECH	MECHANICAL
BM	BEAM	MFR	MANUFACTURER
BOS	BOTTOM OF STEEL	MID	MIDDLE
BRG	BEARING	MIN	MINIMUM
BTWN	BETWEEN	MISC	MISCELLANEOUS
CFS	COLD FORMED STEEL	MOW	MIDDLE OF WALL
CJ	CONTRACTION JOINT	MP	MASONRY PILASTER
CL	CENTERLINE	d	NAILS - PENNY
CLR	CLEAR	No	NUMBER
CMU	CONCRETE MASONRY UNITS	NS	NEAR SIDE
COL	COLUMN	NTS	NOT TO SCALE
CONC	CONCRETE	NWC	NORMAL WEIGHT CONCRETE
CONN	CONNECTION	OC	ON CENTER
CONST JT	CONSTRUCTION JOINT	OFB	OUTSIDE FACE OF BRICK
CONT	CONTINUOUS	OFM	OUTSIDE FACE OF MASONRY
CONTR	CONTRACTOR	OFS	OUTSIDE FACE OF STUD
CSJ	COMPOSITE STEEL JOIST	OPNG	OPENING
CTRD	CENTERED	OPP	OPPOSITE HAND
DBA	DEFORMED BAR ANCHOR	PEBS	PRE-ENGINEERED BUILDING
DD	DELEGATED DESIGN		SUPPLIER
DEFL	DEFLECTION	PED	PEDESTAL
DEPR	DEPRESSION - DEPRESSED	PL	PLATE
DET	DETAIL	PSF	POUNDS PER SQUARE FOOT
DIAG	DIAGONAL	PSI	POUNDS PER SQUARE INCH
Ø	DIAMETER	PSL	PARALLEL STRAND LUMBER
DIM	DIMENSION	PLF	POUNDS PER LINEAR FOOT
DIST	DISTANCE	PT	PRESSURE TREATED
DWG(S)	DRAWING(S)	REF	REFERENCE
DWL(S)	DOWEL(S)	REINF	REINFORCING
EA	EACH	REQD	REQUIRED
ELEV	ELEVATION	(S)	SHORT SIDE REINFORCEMENT
EMBED	EMBEDDED - EMBEDMENT	SB	SHORT BAR
ENG		SCHD	SCHEDULE
EOR	ENGINEER OF RECORD	SF SIM	STEP FOOTING
EQ EQUIP	EQUAL EQUIPMENT	SIM	SIMILAR SLAB ON GRADE
EQUIP	EACH FACE	SPEC(S)	
EJ	EXPANSION JOINT	SPEC(S) SPF	SPRUCE PINE FUR
EOD	EDGE OF DECK	SQ	SQUARE
EOM	EDGE OF DECK EDGE OF MASONRY	STD	STANDARD
EOS	EDGE OF SLAB	STIFF	STIFFENER
EOW	EDGE OF WALL	STIRR	STIRRUP
EW	EACH WAY	STIL	STEEL
EXIST		UL	SILL
EXP			STRUCTURAL
	EXISTING	STR	STRUCTURAL
FXT	EXISTING EXPANSION	STR SW	SHEAR WALL
EXT FDN	EXISTING EXPANSION EXTERIOR	STR SW SYP	SHEAR WALL SOUTHERN YELLOW PINE
FDN	EXISTING EXPANSION EXTERIOR FOUNDATION	STR SW SYP T	SHEAR WALL SOUTHERN YELLOW PINE TOP
FDN FFE	EXISTING EXPANSION EXTERIOR FOUNDATION FINISHED FLOOR ELEVATION	STR SW SYP T TCX	SHEAR WALL SOUTHERN YELLOW PINE TOP TOP CHORD EXTENSION
FDN FFE FS	EXISTING EXPANSION EXTERIOR FOUNDATION FINISHED FLOOR ELEVATION FAR SIDE	STR SW SYP T TCX TOC	SHEAR WALL SOUTHERN YELLOW PINE TOP TOP CHORD EXTENSION TOP OF CONCRETE
FDN FFE FS FTG	EXISTING EXPANSION EXTERIOR FOUNDATION FINISHED FLOOR ELEVATION FAR SIDE FOOTING	STR SW SYP T TCX TOC TOS	SHEAR WALL SOUTHERN YELLOW PINE TOP TOP CHORD EXTENSION TOP OF CONCRETE TOP OF STEEL
FDN FFE FS FTG GA	EXISTING EXPANSION EXTERIOR FOUNDATION FINISHED FLOOR ELEVATION FAR SIDE FOOTING GAUGE	STR SW SYP T TCX TOC TOS TOW	SHEAR WALL SOUTHERN YELLOW PINE TOP TOP CHORD EXTENSION TOP OF CONCRETE TOP OF STEEL TOP OF WALL
FDN FFE FS FTG GA GALV	EXISTING EXPANSION EXTERIOR FOUNDATION FINISHED FLOOR ELEVATION FAR SIDE FOOTING GAUGE GALVANIZED	STR SW SYP T TCX TOC TOS TOW TYP	SHEAR WALL SOUTHERN YELLOW PINE TOP TOP CHORD EXTENSION TOP OF CONCRETE TOP OF STEEL TOP OF WALL TYPICAL
FDN FFE FS FTG GA GALV GT	EXISTING EXPANSION EXTERIOR FOUNDATION FINISHED FLOOR ELEVATION FAR SIDE FOOTING GAUGE GALVANIZED GIRDER TRUSS	STR SW SYP T TCX TOC TOS TOW TYP UNO	SHEAR WALL SOUTHERN YELLOW PINE TOP TOP CHORD EXTENSION TOP OF CONCRETE TOP OF STEEL TOP OF WALL TYPICAL UNLESS NOTED OTHERWISE
FDN FFE FS FTG GA GALV GT HD	EXISTING EXPANSION EXTERIOR FOUNDATION FINISHED FLOOR ELEVATION FAR SIDE FOOTING GAUGE GALVANIZED GIRDER TRUSS HEADED	STR SW SYP T TCX TOC TOS TOW TYP UNO VB	SHEAR WALL SOUTHERN YELLOW PINE TOP TOP CHORD EXTENSION TOP OF CONCRETE TOP OF STEEL TOP OF WALL TYPICAL UNLESS NOTED OTHERWISE VEHICLE BARRIER
FDN FFE FS FTG GA GALV GT	EXISTING EXPANSION EXTERIOR FOUNDATION FINISHED FLOOR ELEVATION FAR SIDE FOOTING GAUGE GALVANIZED GIRDER TRUSS	STR SW SYP T TCX TOC TOS TOW TYP UNO	SHEAR WALL SOUTHERN YELLOW PINE TOP TOP CHORD EXTENSION TOP OF CONCRETE TOP OF STEEL TOP OF WALL TYPICAL UNLESS NOTED OTHERWISE
FDN FFE FS FTG GA GALV GT HD HI HORIZ	EXISTING EXPANSION EXTERIOR FOUNDATION FINISHED FLOOR ELEVATION FAR SIDE FOOTING GAUGE GALVANIZED GIRDER TRUSS HEADED HIGH	STR SW SYP T TCX TOC TOS TOW TYP UNO VB VERT	SHEAR WALL SOUTHERN YELLOW PINE TOP TOP CHORD EXTENSION TOP OF CONCRETE TOP OF STEEL TOP OF WALL TYPICAL UNLESS NOTED OTHERWISE VEHICLE BARRIER VERTICAL
FDN FFE FS FTG GA GALV GT HD HI	EXISTING EXPANSION EXTERIOR FOUNDATION FINISHED FLOOR ELEVATION FAR SIDE FOOTING GAUGE GALVANIZED GIRDER TRUSS HEADED HIGH HORIZONTAL	STR SW SYP T TCX TOC TOS TOW TYP UNO VB VERT VIF	SHEAR WALL SOUTHERN YELLOW PINE TOP TOP CHORD EXTENSION TOP OF CONCRETE TOP OF STEEL TOP OF WALL TYPICAL UNLESS NOTED OTHERWISE VEHICLE BARRIER VERTICAL VERIFY IN FIELD







"

INDICATES SLAB-ON-GRADE. SEE SC

FOUNDATION PLAN - AREA A

SCALE: 1/8" = 1'-0"

FOUNDATION LEGEND

		STEEL COLUMN SEE PLAN FOR SIZE AND LOCATION SEE S4 SHEETS FOR BASE PLATE DETAILS (BP-x)		SEE S1 SHEETS FOR ADDITIO SPECIFICATIONS. ALSO, SEE GENERALLY NOT SHOWN ON CONSTRUCTION CONDITIONS DATUM ELEVATION = TOP OF
	0)	GRID DESIGNATION FOR CENTERLINE OF COLUMN U.N.O.	3. 4.	NOTED AS (+ OR -) FROM DAT TOP OF FOOTINGS SHALL BE SEE SCHEDULE ON S3 SHEET
ets Joints	BRACE #X	STEEL BRACE LOCATIONS SEE PLAN & S5 SHEETS		RELOCATE ANY UTILITY LINE FOUNDATIONS TO AN ELEVA FLOW LINES THAT CONFLICT PLANS. IF A GRAVITY FLOW L a. DROP THE FOOTING E
I DIRECTION AYOUT	M.L.	BRICK PER ARCH		 b. IF THE UTILITY LINE IS STEEL PIPE 2" LARGER II SIDE OF THE CONCRETE CAPACITY OF THIS AREA c. IF THE UTILITY LINE IS
N.O.	annunnun onn ann annunnun.	MATCH LINE 2" SLAB DEPRESSION COORDINATE EXACT	6	DIMENSIONS ARE FROM EDG
2* o.c. 30VE		LIMITS W/ ARCH, & PLUMBING DWGs SEE S3 SHEETS FOR TYPICAL SLAB DEPRESSION DETAILS		STOREFRONT (O.F.SF.) TO CO S.F. = STEP FOOTING, SEE TO
NOTED	F.D.	FLOOR DRAIN COORDINATE W/ PLUMBING DWGs		FOUNDATION FOR PLUMBING SEE S5 SHEETS FOR BRACE
SCHEDULE	MCJ 🔀	INDICATES APPROXIMATE LOCATION OF		WHEN A SECTION IS CUT OR. SECTION OR DETAIL SHALL A CUT OR LABELED, U.N.O.
		MASONRY CONTROL JOINT - SEE DETAIL ON S4 SHEETS INDICATES 6" CONCRETE CURB		REFER TO ARCHITECTURAL, DRAWINGS FOR OPENINGS A FOOTINGS AND COLUMNS O
				DISTANCE TO FUTURE COLUI

FOUNDATION NOTES

OR ADDITIONAL GENERAL NOTES, MATERIAL NOTES AND MATERIAL ALSO, SEE S3 SHEETS FOR TYPICAL DETAILS. TYPICAL DETAILS ARE SHOWN ON PLAN BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONDITIONS.

N = TOP OF SLAB ELEVATION = ASSUMED 48'-0". OTHER ELEVATIONS ARE) FROM DATUM ELEVATION. SEE CIVIL FOR ELEVATIONS RELATIVE TO MSL.

S SHALL BE (-1'-4") FROM DATUM ELEVATION, U.N.O. N S3 SHEETS FOR SLAB-ON-GRADE REQUIREMENTS..

TILITY LINES THAT CONFLICT WITH THE FOUNDATIONS OR DROP THE AN ELEVATION BELOW THE PROPOSED UTILITIES. RELOCATE ANY GRAVITY CONFLICT WITH SPREAD FOOTINGS AS SHOWN ON STRUCTURAL FOUNDATION ITY FLOW LINE TRAVELS UNDER A CONTINUOUS STRIP FOOTING EITHER: FOOTING ELEVATION BELOW THE PROPOSED LINE. .ITY LINE IS < 2'-0" BELOW THE STRIP FOOTING, THEN ENCASE THE LINE IN A " LARGER IN DIAMETER THAN THE LINE AND EXTEND THE PIPE 1'-0" PAST EACH CONCRETE FOOTING. BACKFILL THE TRENCH WITH #57 STONE. THE BEARING

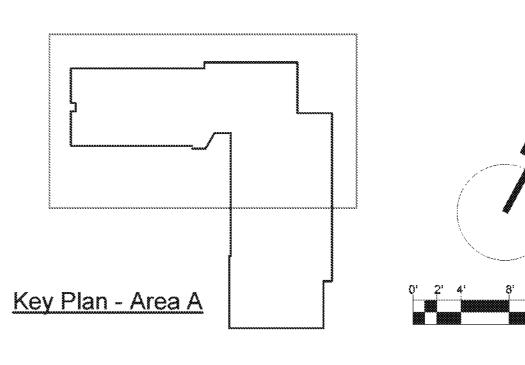
F THIS AREA MUST MEET OR EXCEED THE ALLOWABLE SOIL BEARING CAPACITY. LITY LINE IS ≥ 2'40" BELOW BOTTOM OF FOOTING, THEN STEEL PIPE IS NOT DACKFILL THE TRENCH WITH #57 STONE. THE BEARING CAPACITY OF THIS AREA OR EXCEED THE ALLOWABLE SOIL BEARING CAPACITY.

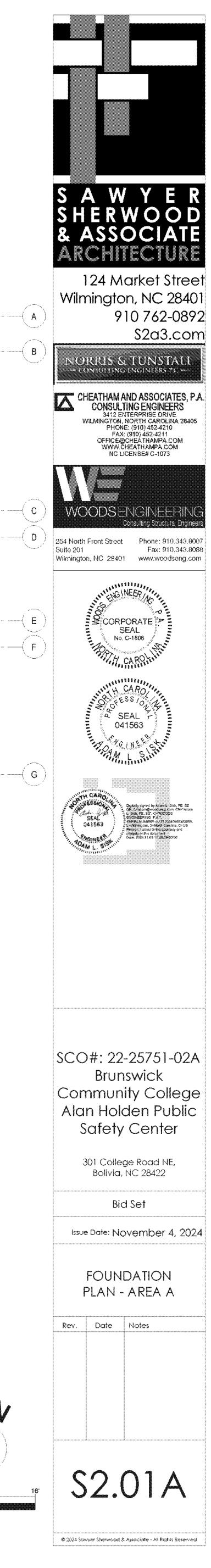
F.SF.) TO COLUMN CENTERLINE UNLESS NOTED OTHERWISE.

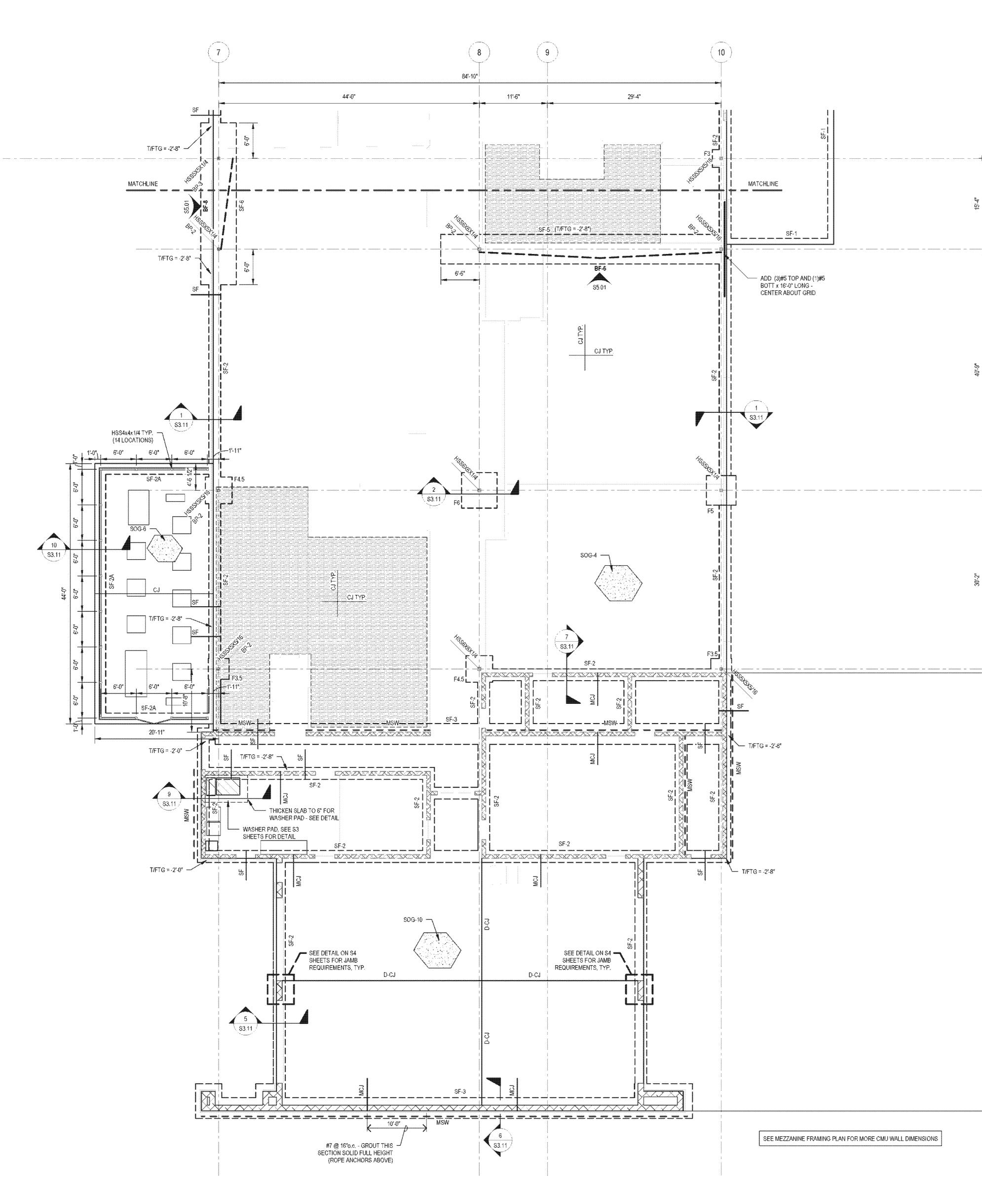
ING, SEE TYPICAL DETAIL ON S3 SHEETS - G.C. TO COORDINATE STEPS IN R PLUMBING, ELECTRICAL AND MECHANICAL. FOR BRACE FRAMING AND MOMENT FRAME INFORMATION AND REQUIREMENTS.

IS CUT OR A DETAIL IS LABELED FOR A PARTICULAR CONDITION, THAT ALL SHALL APPLY FOR ALL SIMILAR CONDITIONS REGARDLESS OF WHETHER

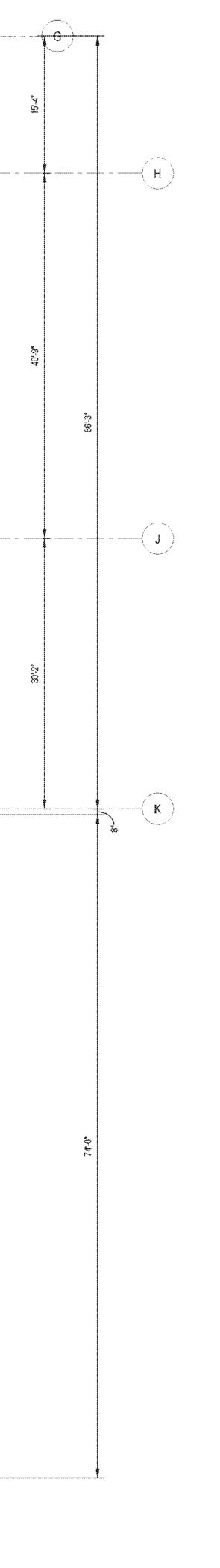
ECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER DISCIPLINE PENINGS AND DEPRESSIONS NOT SHOWN ON THESE DRAWINGS. OLUMNS OVERSIZED FOR POTENTIAL FUTURE BUILDING ADDITION. MAX 'URE COLUMN LINE LEFT OF GRID 1 = 34ft







FOUNDATION PLAN - AREA B SCALE: 1/8" = 1'-0"

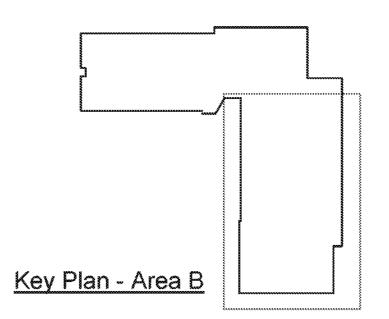


FOUNDATION NOTES

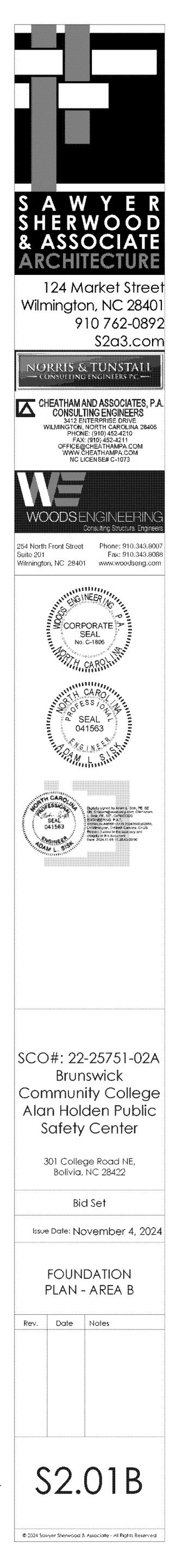
- SEE S1 SHEETS FOR ADDITIONAL GENERAL NOTES, MATERIAL NOTES AND MATERIAL SPECIFICATIONS. ALSO, SEE S3 SHEETS FOR TYPICAL DETAILS. TYPICAL DETAILS ARE GENERALLY NOT SHOWN ON PLAN BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS.
- DATUM ELEVATION = TOP OF SLAB ELEVATION = ASSUMED 48'-0". OTHER ELEVATIONS ARE NOTED AS (+ OR -) FROM DATUM ELEVATION. SEE CIVIL FOR ELEVATIONS RELATIVE TO MSL.
- 3. TOP OF FOOTINGS SHALL BE (-1'-4") FROM DATUM ELEVATION, U.N.O.
- 4. SEE SCHEDULE ON \$3 SHEETS FOR SLAB-ON-GRADE REQUIREMENTS.
- 5. RELOCATE ANY UTILITY LINES THAT CONFLICT WITH THE FOUNDATIONS OR DROP THE FOUNDATIONS TO AN ELEVATION BELOW THE PROPOSED UTILITIES. RELOCATE ANY GRAVITY FLOW LINES THAT CONFLICT WITH SPREAD FOOTINGS AS SHOWN ON STRUCTURAL FOUNDATION PLANS. IF A GRAVITY FLOW LINE TRAVELS UNDER A CONTINUOUS STRIP FOOTING EITHER:

 a. DROP THE FOOTING ELEVATION BELOW THE PROPOSED LINE.
 b. IF THE UTILITY LINE IS < 2'-0' BELOW THE STRIP FOOTING, THEN ENCASE THE LINE IN A STEEL PIPE 2" LARGER IN DIAMETER THAN THE LINE AND EXTEND THE PIPE 1'-0' PAST EACH SIDE OF THE CONCRETE FOOTING. BACKFILL THE TRENCH WITH #57 STONE. THE BEARING CAPACITY OF THIS AREA MUST MEET OR EXCEED THE ALLOWABLE SOIL BEARING CAPACITY.
 c. IF THE UTILITY LINE IS ≥ 2'-0' BELOW BOTTOM OF FOOTING, THEN STEEL PIPE IS NOT REQUIRED. BACKFILL THE TRENCH WITH #57 STONE. THE BEARING CAPACITY OF THIS AREA MUST MEET OR EXCEED THE ALLOWABLE SOIL BEARING CAPACITY.
- DIMENSIONS ARE FROM EDGE OF SLAB (E.O.S.) AND OUTSIDE FACE OF STUD (O.F.S.) / STOREFRONT (O.F.SF.) TO COLUMN CENTERLINE UNLESS NOTED OTHERWISE.
- 7. S.F. = STEP FOOTING, SEE TYPICAL DETAIL ON S3 SHEETS G.C. TO COORDINATE STEPS IN
- FOUNDATION FOR PLUMBING, ELECTRICAL AND MECHANICAL.8. SEE S5 SHEETS FOR BRACE FRAMING AND MOMENT FRAME INFORMATION AND REQUIREMENTS.
- 9. WHEN A SECTION IS CUT OR A DETAIL IS LABELED FOR A PARTICULAR CONDITION, THAT SECTION OR DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS REGARDLESS OF WHETHER CUT OR LABELED, U.N.O.
- 10. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND OTHER DISCIPLINE DRAWINGS FOR OPENINGS AND DEPRESSIONS NOT SHOWN ON THESE DRAWINGS.
- 11. FOOTINGS AND COLUMNS OVERSIZED FOR POTENTIAL FUTURE BUILDING ADDITION. MAX DISTANCE TO FUTURE COLUMN LINE LEFT OF GRID 1 = 34ft

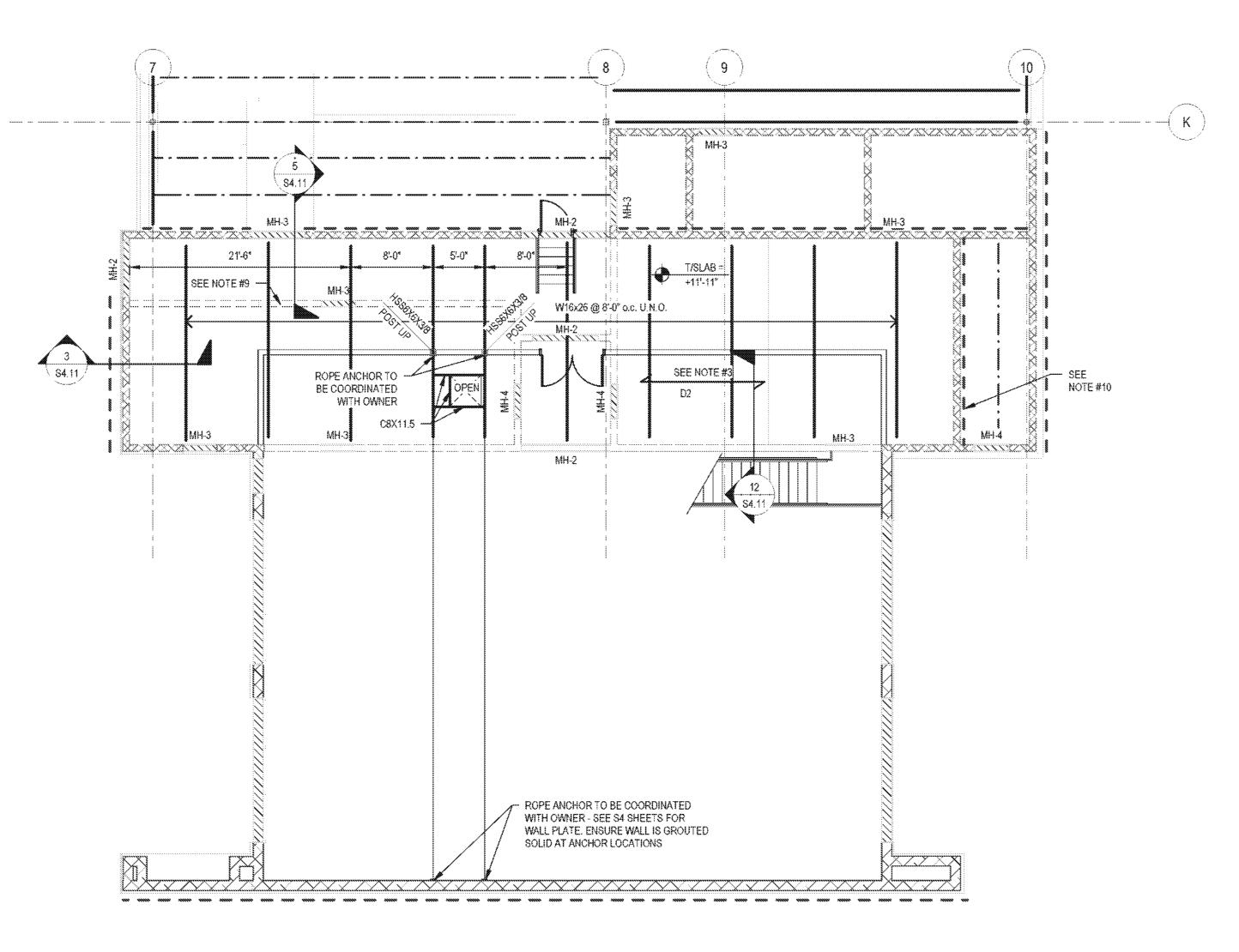
FOUNDATION LEGEND				
	SPREAD FOOTING DESIGNATION SEE SCHEDULE ON S3 SHEETS			
<u>SF-X</u>	STRIP FOOTING DESIGNATION SEE SCHEDULE ON S3 SHEETS			
<u>S.F.</u>	STEP FOOTING SEE TYPICAL DETAIL ON \$3 SHEETS			
<u></u> 3	CONCRETE SLAB CONTRACTION JOINTS MAXIMUM SPACING = 12' IN EACH DIRECTION SEE A7.5 FOR CONTROL JOINT LAYOUT			
	INDICATES 8" CMU WALL WITH #5 CORNERS, JAMBS, AND 48"o.c. U.N.O.			
<u> </u>	INDICATES 12" CMU WITH #7 @ 32" o.c. U.N.O			
	CMU MASONRY SHEAR WALLS ABOVE REINFORCEMENT TO REMAIN AS NOTED IN OTHER LEGEND ITEMS			
SOG-X	INDICATES SLAB-ON-GRADE, SEE SCHEDULE			
ANT ANT	STEEL COLUMN SEE PLAN FOR SIZE AND LOCATION SEE S4 SHEETS FOR BASE PLATE DETAILS (BP-x)			
0)	GRID DESIGNATION FOR CENTERLINE OF COLUMN U.N.O.			
BRACE #X	STEEL BRACE LOCATIONS SEE PLAN & S5 SHEETS			
	BRICK PER ARCH			
M.L. annunnum ann ann annunnum	MATCH LINE			
	2" SLAB DEPRESSION COORDINATE EXACT LIMITS W/ ARCH. & PLUMBING DWGs SEE S3 SHEETS FOR TYPICAL SLAB DEPRESSION DETAILS			
F.D.	FLOOR DRAIN COORDINATE W/ PLUMBING DWGs			
	INDICATES APPROXIMATE LOCATION OF MASONRY CONTROL JOINT - SEE DETAIL ON S4 SHEETS			
	INDICATES 6" CONCRETE CURB			
D-CJ	INDICATES DOWELED CONTRACTION JOINTS, SEE DETAIL ON \$3 SHEETS			







N



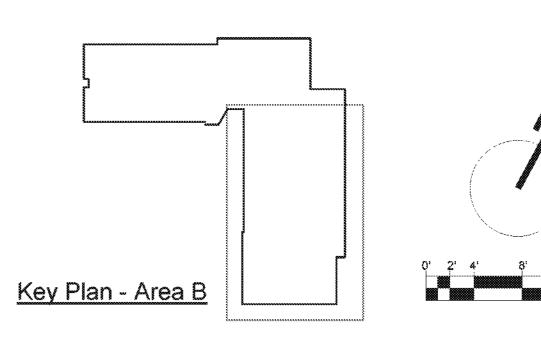
MEZZANINE FRAMING PLAN SCALE: 1/8" = 1'-0"

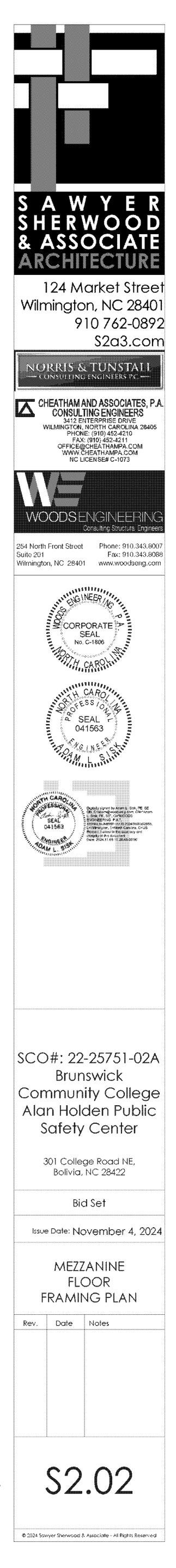
FLOOR FRAMING LEGEND

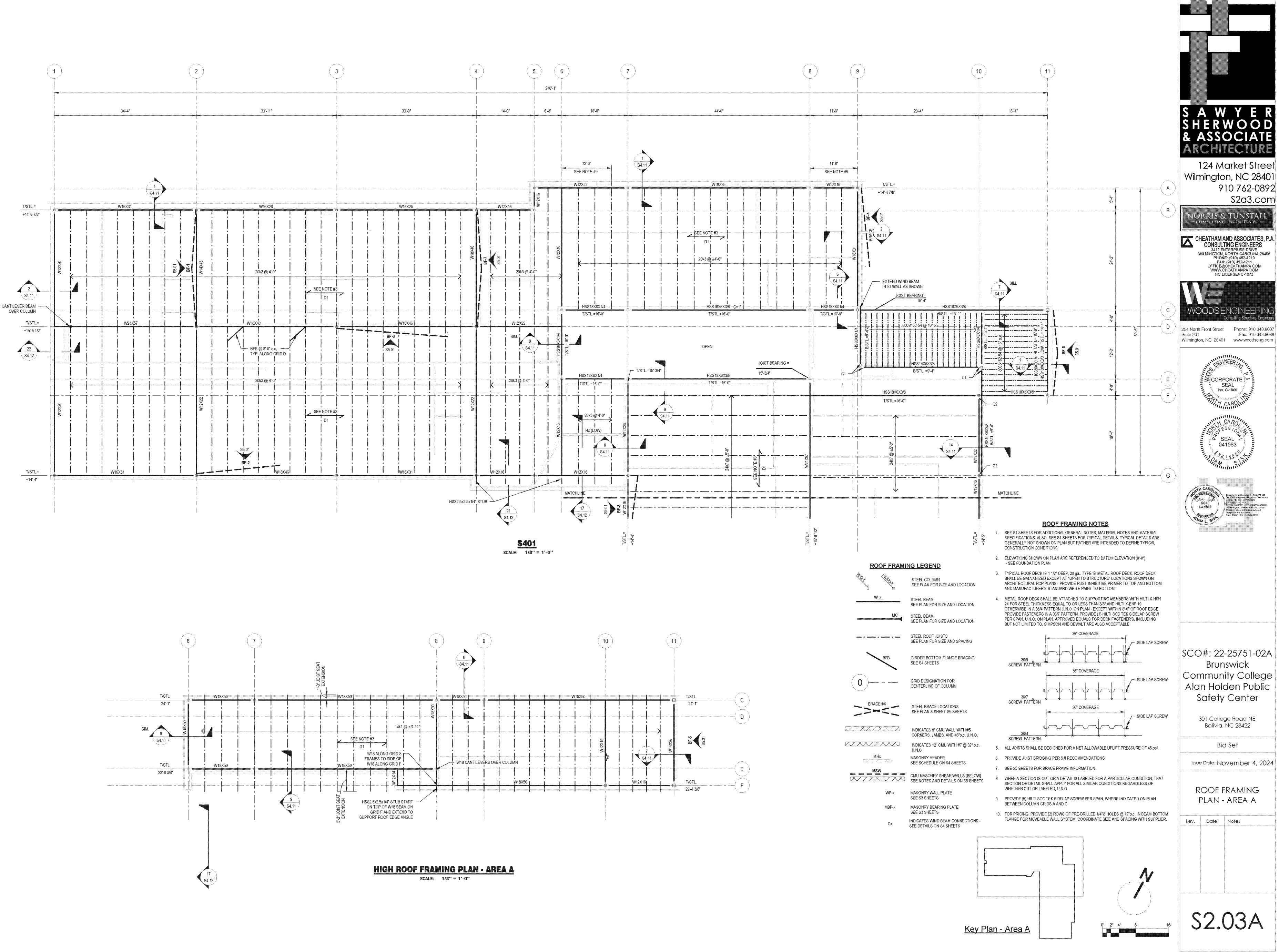
ALL I SECTION	STEEL COLUMN SEE PLAN FOR SIZE AND LOCATION
W_X_	STEEL BEAM SEE PLAN FOR SIZE AND LOCATION
MC	STEEL BEAM SEE PLAN FOR SIZE AND LOCATION
0	GRID DESIGNATION FOR CENTERLINE OF COLUMN
BRACE #X	STEEL BRACE LOCATIONS SEE PLAN & SHEET S5 SHEETS
L	INDICATES CMU BELOW
X/X/.X.X.X.X	INDICATES 8" CMU WALL WITH #5 CORNERS, JAMBS, AND 48"o.c. U.N.O.
	INDICATES 12" CMU WITH #7 @ 32" o.c. U.N.O
MHx	MASONRY HEADER SEE SCHEDULE ON S4 SHEETS
MSW	CMU MASONRY SHEAR WALLS (BELOW) REINFORCEMENT TO REMAIN AS NOTED IN OTHER LEGEND ITEMS
WP-x	MASONRY WALL PLATE SEE S4 SHEETS
MBP-x	MASONRY BEARING PLATE SEE S4 SHEETS

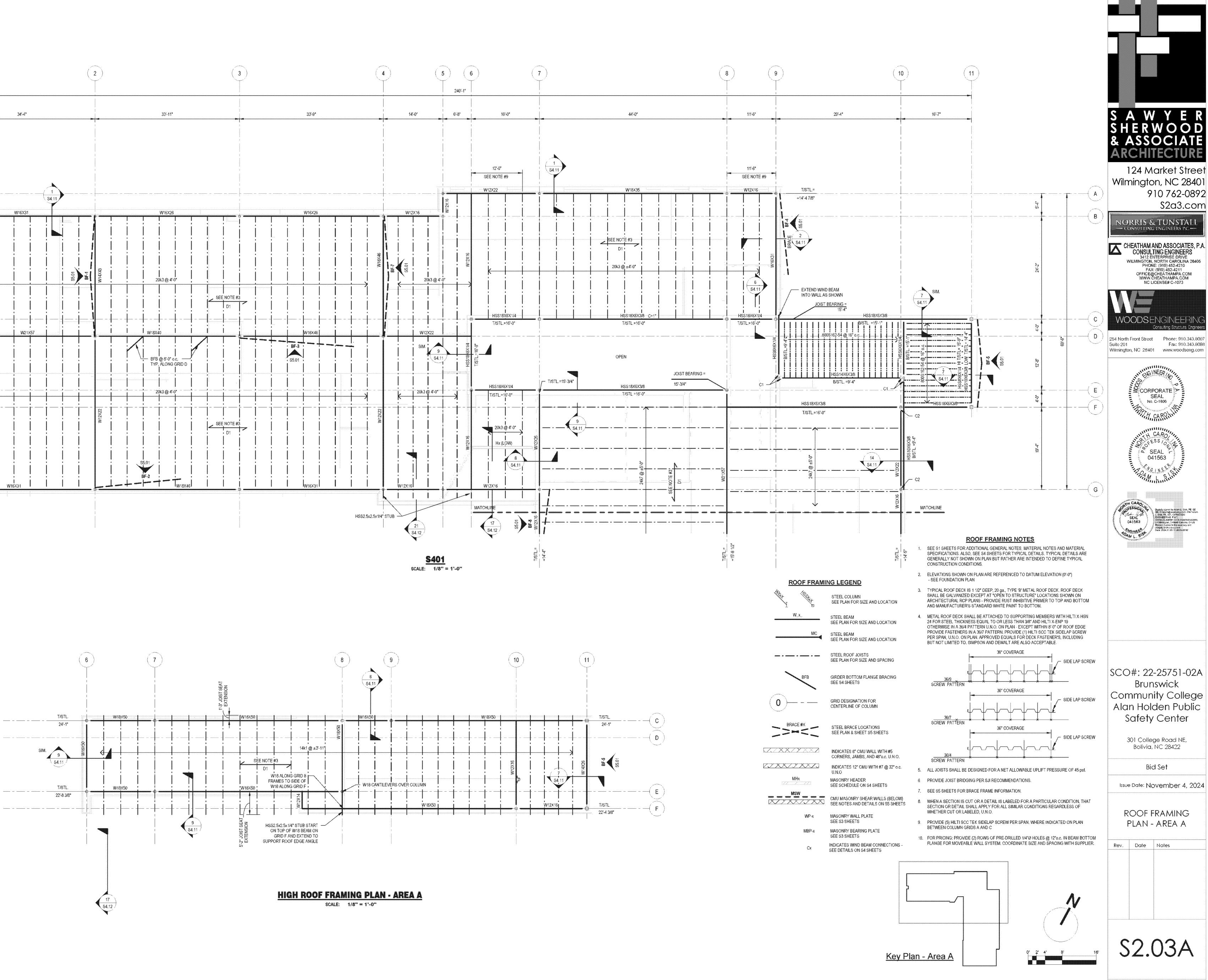
FLOOR FRAMING PLAN NOTES

- SEE S1 SHEETS FOR ADDITIONAL GENERAL NOTES, MATERIAL NOTES AND MATERIAL SPECIFICATIONS. ALSO, SEE S3 SHEETS FOR TYPICAL DETAILS. TYPICAL DETAILS ARE GENERALLY NOT SHOWN ON PLAN BUT RATHER ARE INTENDED TO DEFINE TYPICAL CONSTRUCTION CONDITIONS.
- SEE PLAN FOR TRUSS/JOIST BEARING ELEVATIONS. ELEVATIONS NOTED ARE FROM DATUM (SEE FOUNDATION PLANS)
- 3. SEE SCHEDULE ON S4 SHEETS FOR SLAB-ON-DECK REQUIREMENTS
- 4. PROVIDE JOIST BRIDGING PER SJI RECOMMENDATIONS.
- 5. J.B.E. = JOIST BEARING ELEVATION.
- 6. K.B. = KICKER/BRACE SEE SECTIONS
- _____
- T/STL = TOP OF STEEL
 WHEN A SECTION IS CUT OR A DETAIL IS LABELED FOR A PARTICULAR CONDITION, THAT
- SECTION OR DETAIL SHALL APPLY FOR ALL SIMILAR CONDITIONS REGARDLESS OF WHETHER CUT OR LABELED, U.N.O.
- 9. BRACE TOP OF NON-LOAD BEARING CMU WALLS AS SHOWN IN DETAIL ON \$4.01 SHEET.
- 10. SEE \$4.01 FOR CMU SHEAR WALL TO SLAB-ON-DECK CONNECTION.

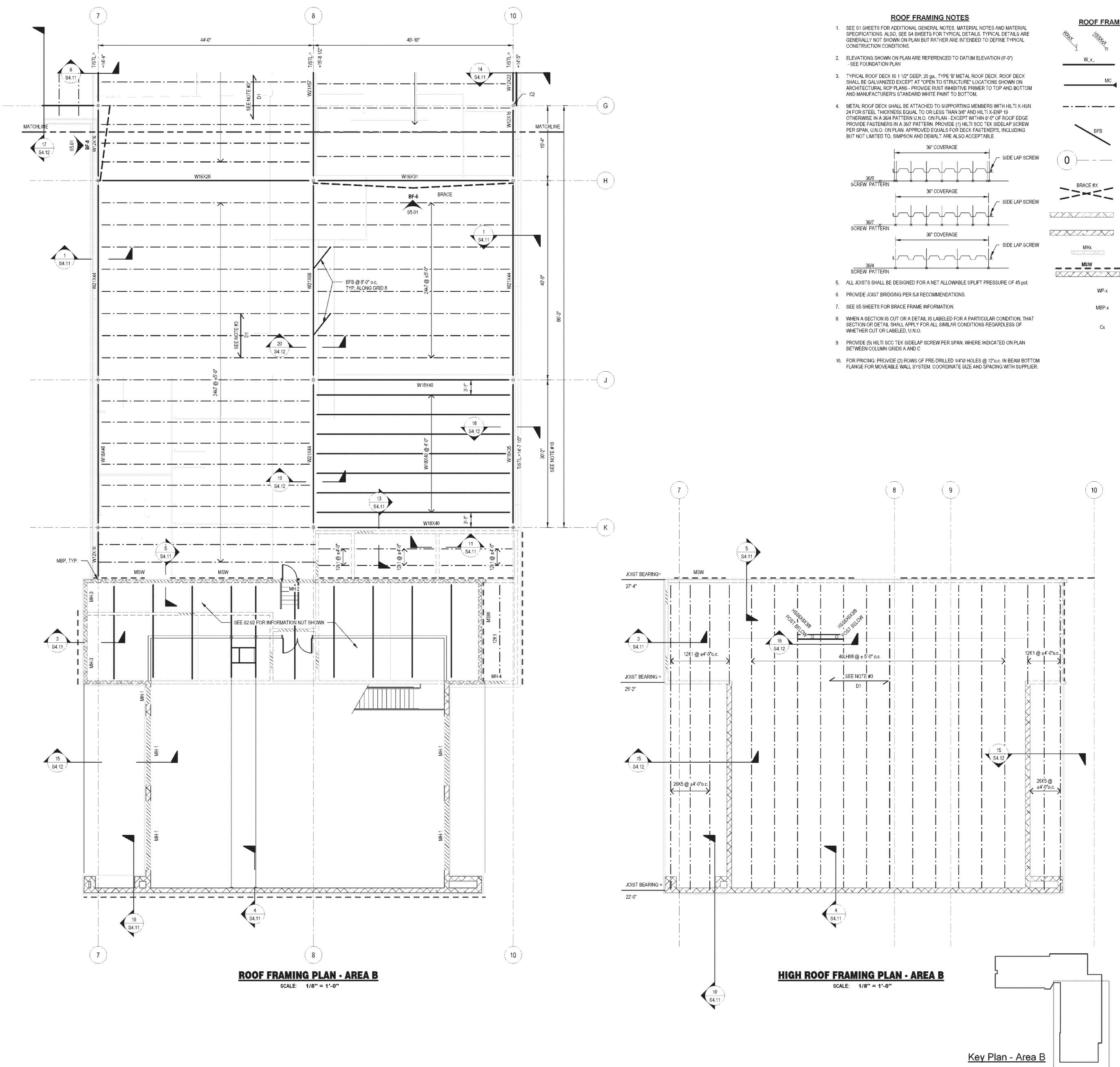


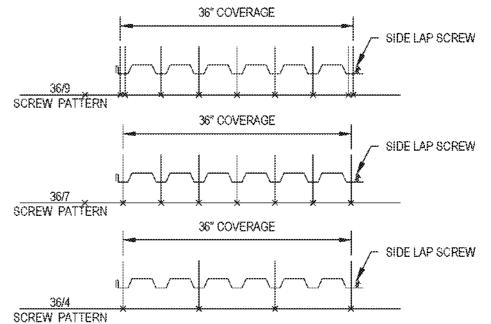




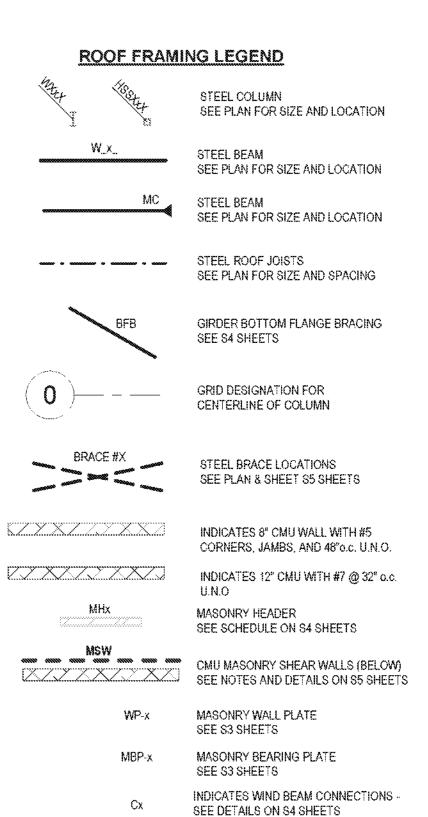


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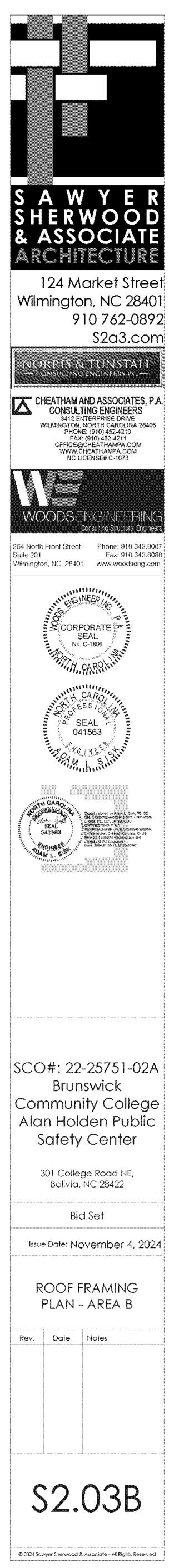


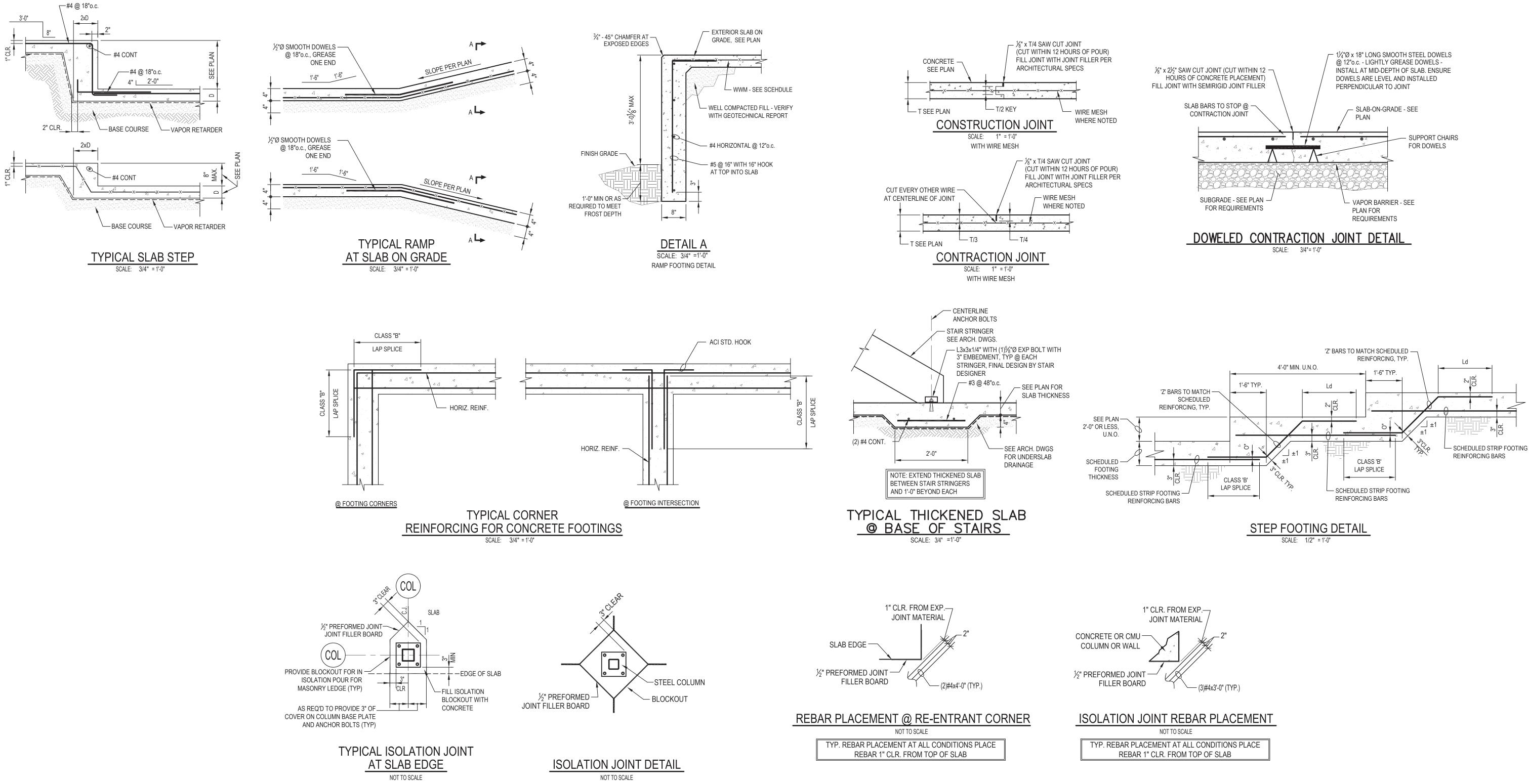




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0'2'4' 8'





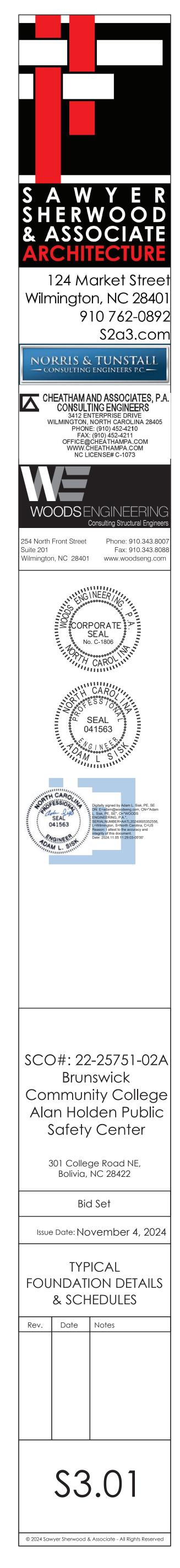
SLAB ON GRADE SCHEDUL

MARK	THICKNESS	CONCRETE STRENGTH	REINFORCEMENT	AIR ENTRAINMENT	TYPICAL LOCATION	VAPOR BARRIER	COMMENTS
SOG-4	4"	3,000psi	WWM6x6xW2.0xW2.0	NO	TYP INTERIOR	15mil	-
SOG-4E	4"	4,000psi	WWM6x6xW2.0xW2.0	YES	TYP EXTERIOR	10mil	LIGHT BROOM FINISH
SOG-6	6"	4,000psi	#4 @ 18" o.c. TOP EACH WAY	YES	TYP EXTERIOR	10mil	LIGHT BROOM FINISH
SOG-10	10"	4,000psi	#5@16"o.c. TOP EACH WAY	YES	APPARATUS BAY	15mil	DOWELED CJ'S
NOTE:							

ALL SLAB-ON-GRADES SHALL BEAR ON DRAINAGE LAYER AND WELL COMPACTED SUBGRADE PER GEOTECHNICAL REPORT. VERIFY COMPACTION AND MATERIAL WITH GEOTECHNICAL ENGINEER

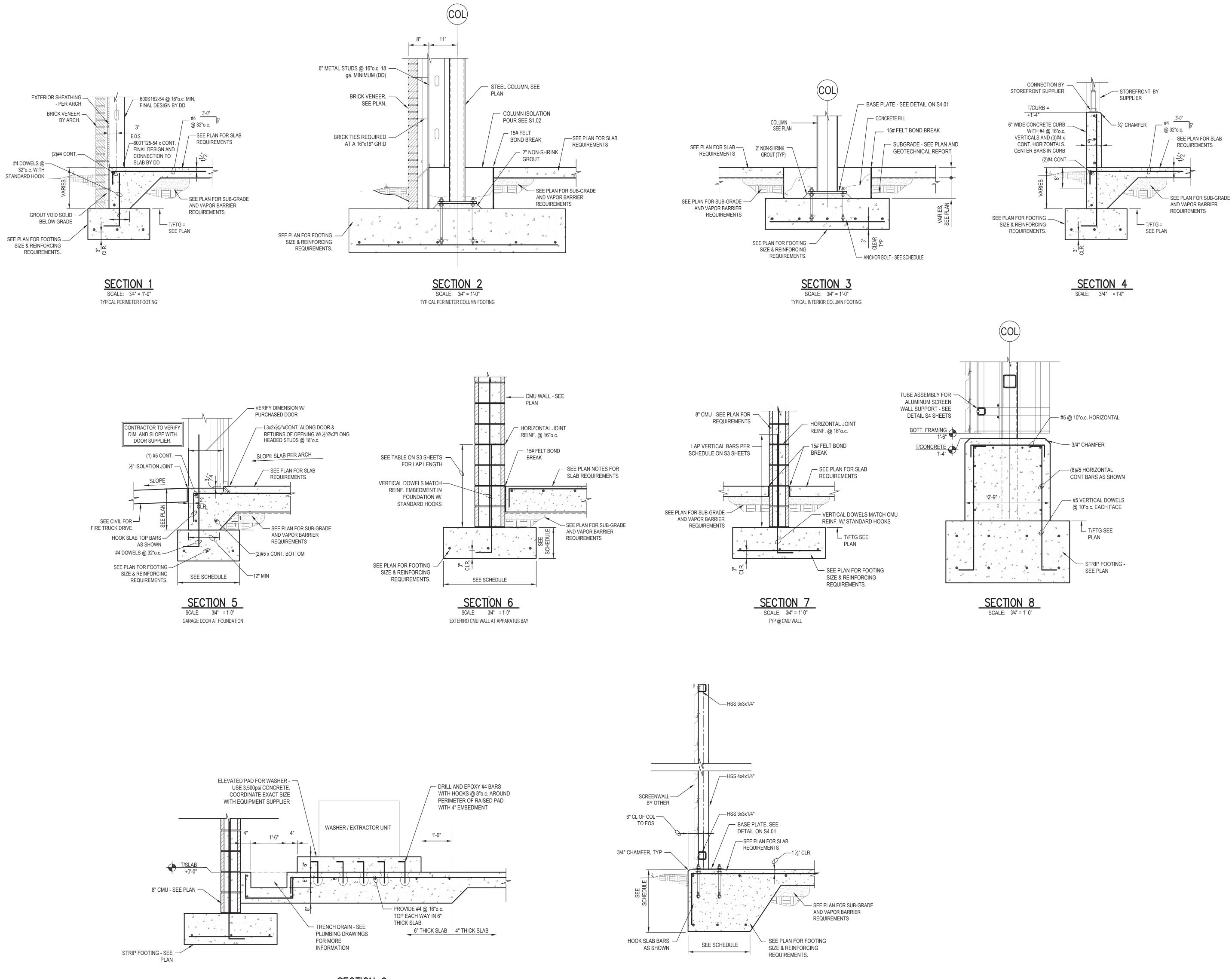
	STRIP FOOTING (SF-X) SCHEDULE								
MARK	SIZE width x thickness x length	REINFORCEMENT (BOTTOM BARS U.N.O.)	REMARKS	TYPICAL LOCATION, U.N.O.					
SF-1	0'-8" x 1'-4" x CONT.	(1) #4 CONT. T&B	MONOLITHIC W/SLAB	EXTERIOR SLAB EDGES					
SF-2	2'-0" x 1'-0" x CONT.	(2) #5 x CONT.	T/FTG = -1'-4"	EXTERIOR WALLS					
SF-2A	2'-0" x 2'-0" x CONT.	(3) #5 x CONT. BOTT & (1)#4 x CONT TOP	MONOLITHIC W/SLAB	MECHANICAL YARD SLAB EDGE					
SF-3	3'-0" x 1'-0" x CONT.	(3) #5 x CONT.	T/FTG = -1'-4"	CMU WALLS					
SF-4	4'-0" x 2'-0" x SEE PLAN	(4) #5 TOP x CONT. & (4) #6 BARS BOTT x CONT.	T/FTG = -1'-4"	-					
SF-5	5'-0" x 2'-0" x SEE PLAN	(5) #5 TOP x CONT. & (5) #6 BOTT x CONT. & #6 @ 10"o.c. TOP AND BOTTOM SHORT	T/FTG = -1'-4"	-					
SF-6	6'-0" x 2'-0" x SEE PLAN	(5) #5 TOP x CONT. & (5) #7 BOTT x CONT. & #6 @ 10"o.c. TOP AND BOTTOM SHORT	T/FTG = -1'-4"	-					

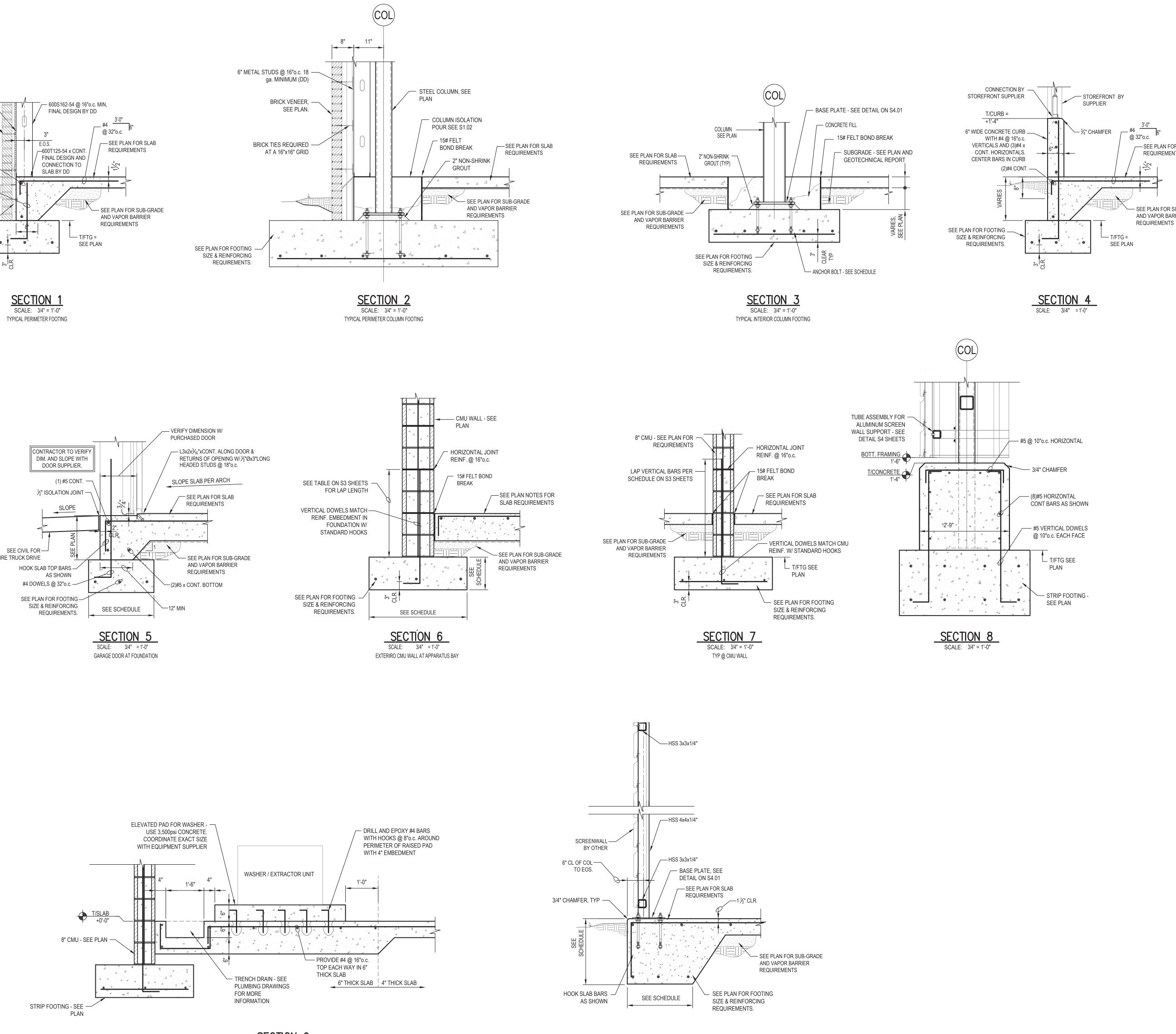
	SPREAD FOOTING (FX) SCHEDULE								
	SIZE	REINF							
MARK	width x length x thickness	TOP BARS EACH WAY (U.N.O.)	BOTTOM BARS EACH WAY (U.N.O.)	REMARKS					
F3	3'-0" x 3'-0" x 1'-0"	-	(3) #5	-					
F3.5	3'-6" x 3'-6" x 1'-0"	-	(3) #5	-					
F4	4'-0" x 4'-0" x 1'-0"	-	(4) #5	-					
F4.5	4'-6" x 4'-6" x 1'-0"	-	(4) #5	-					
F5	5'-0" x 5'-0" x 1'-0"	-	(5) #5	-					
F5.5	5'-6" x 5'-6" x 1'-1"	-	(6) #5	-					
F6	6'-0" x 6'-0" x 1'-2"	-	(7) #5	-					



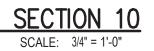






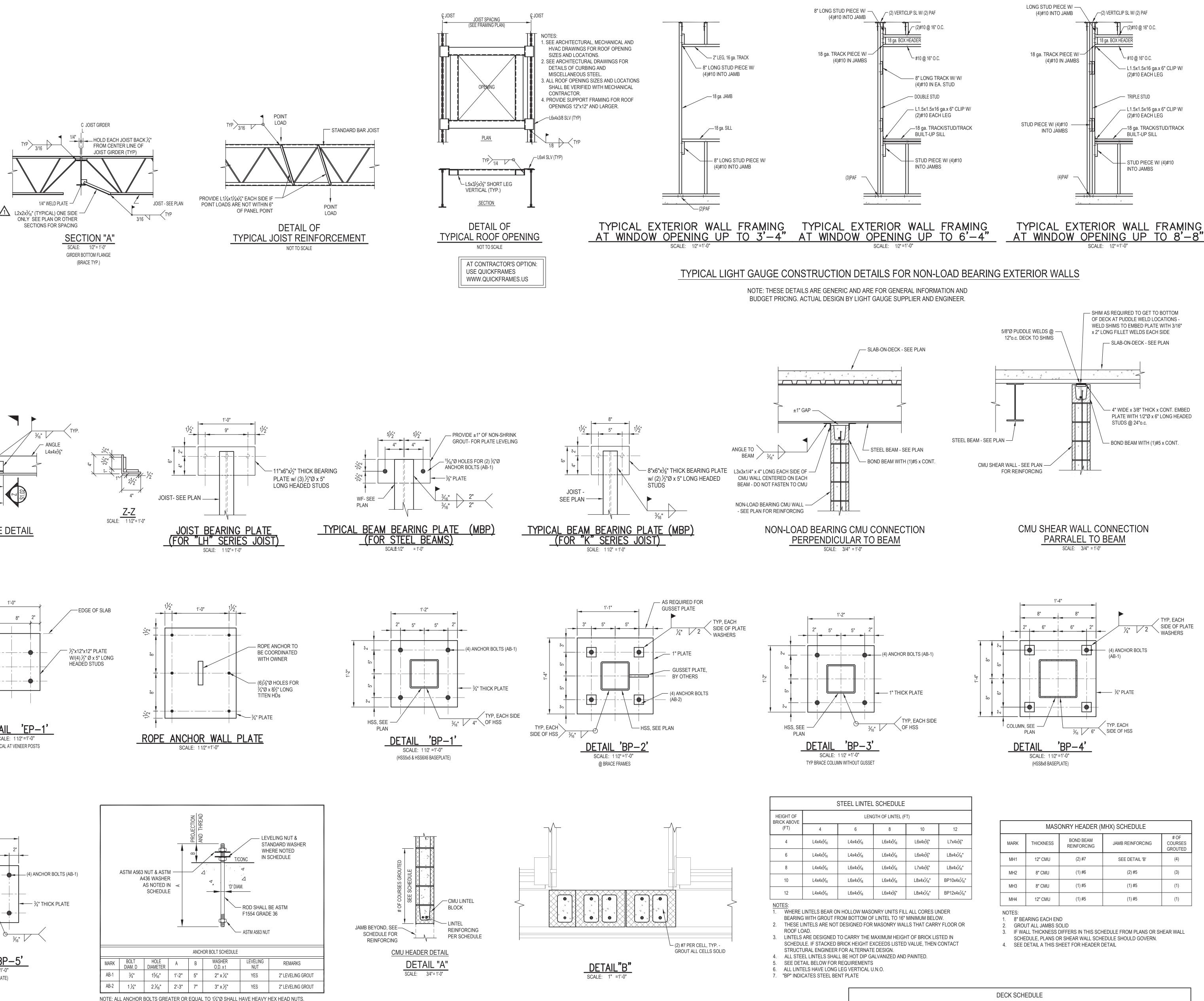


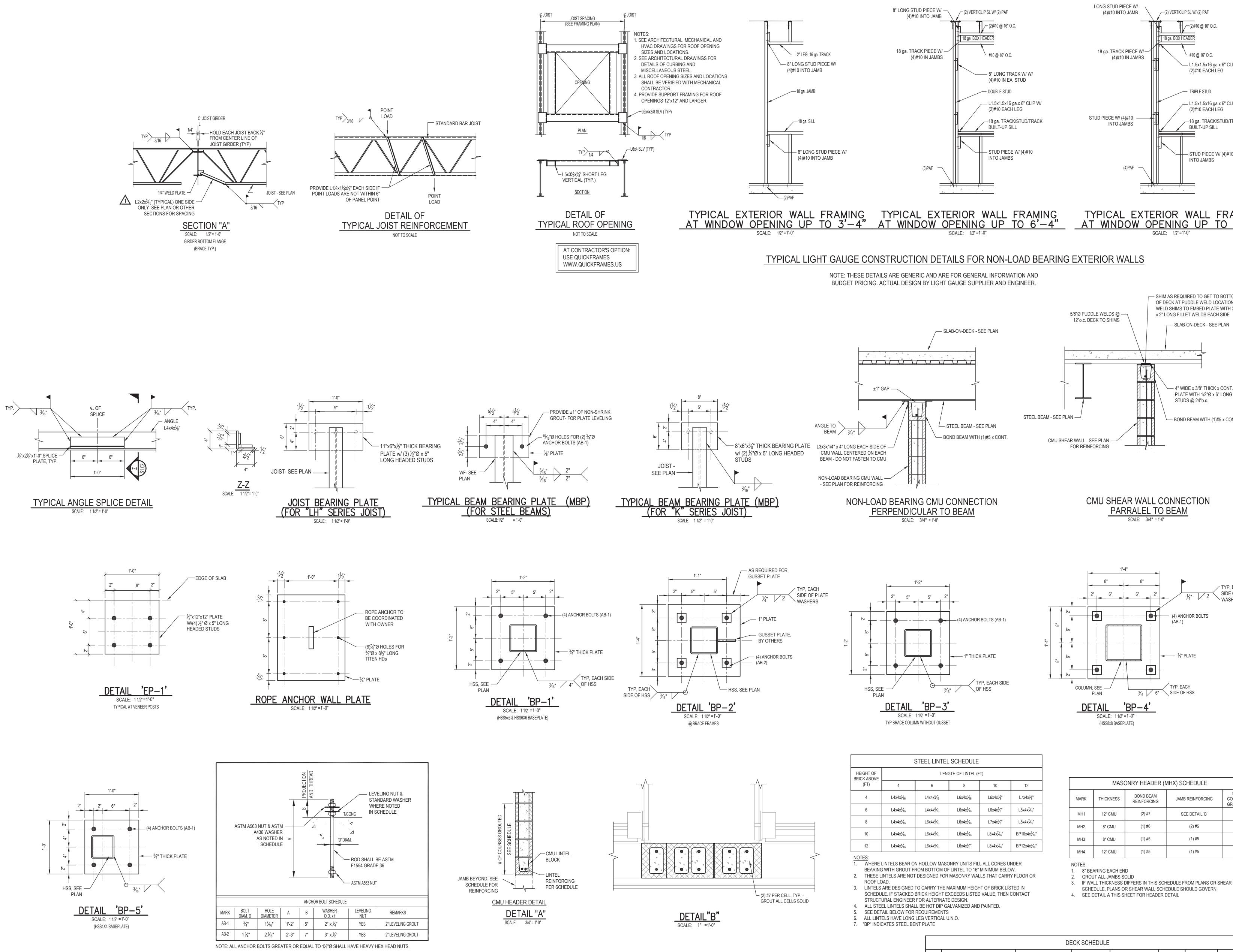
SECTION 9 SCALE: 3/4" = 1'-0" WASHER / EXTRACTOR PAD



SCREEN AT MECHANICAL YARD

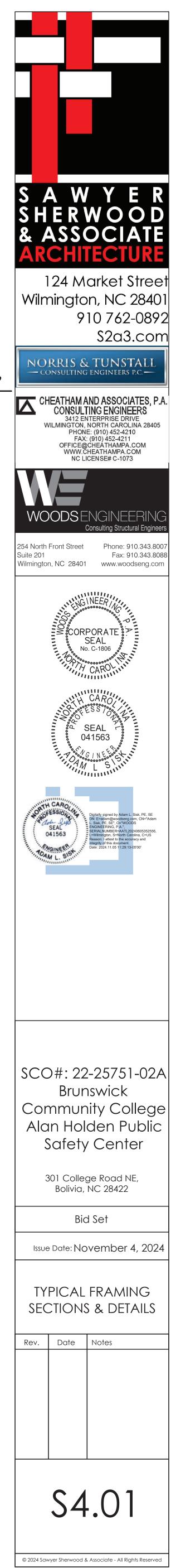






STEEL LINTEL SCHEDULE							
HEIGHT OF BRICK ABOVE	LENGTH OF LINTEL (FT)						
(FT)	4	6	8	10	12		
4	L4x4x5⁄16	L4x4x5⁄16	L6x4x ⁵ ⁄ ₁₆	L6x4x ³ ⁄8"	L7x4x3/8"		
6	L4x4x5⁄16	L4x4x5⁄16	L6x4x ⁵ ⁄ ₁₆	L6x4x ³ ⁄8"	L8x4x ⁷ / ₁₆ "		
8	L4x4x5⁄16	L6x4x5⁄16	L6x4x⁵∕ ₁₆	L7x4x ³ ⁄8"	L8x4x ⁷ ⁄ ₁₆ "		
10	L4x4x5⁄16	L6x4x5∕ ₁₆	L6x4x⁵∕ ₁₆	L8x4x7⁄ ₁₆ "	BP10x4x7/16"		
12	L4x4x5⁄16	L6x4x5⁄16	L6x4x3/8"	L8x4x7⁄ ₁₆ "	BP12x4x7∕ ₁₆ "		
NOTES:			5		3		

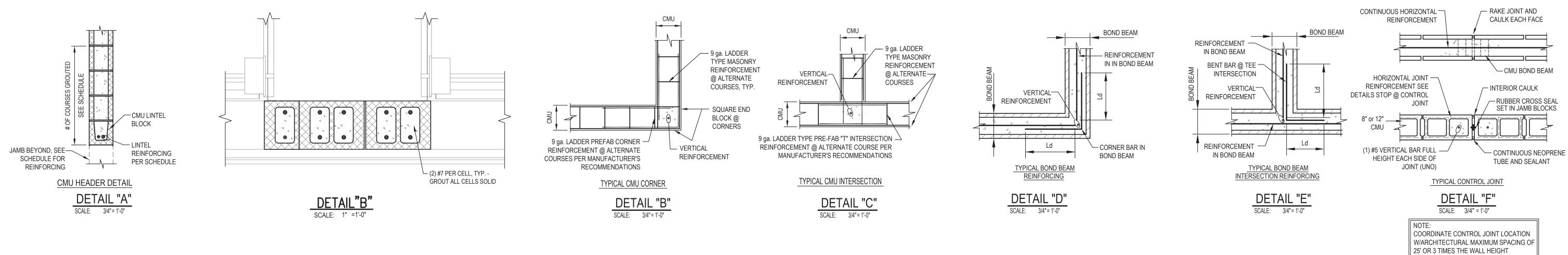
	DECK SCHEDULE							
	THICKNESS		CONCRETE		CONC	TYPICAL	COM	
MARK	DECK TYPE	CONC	TOTAL	STRENGTH	REINFORCEMENT	WEIGHT	LOCATION	COM
D1	1½" DEEP 20ga. GALVANIZED ROOF TYPE 'B'	-	11⁄2"	-	-	-	TYP ROOF	
D2	2" DEEP 20ga. GALVANIZED COMPOSITE TYPE "VLI" (2.0VLI20)	31⁄2"	5½"	3,000psi	WWM6x6xW2.1xW2.1	NORMAL	MEZZANINE FLOOR	



✓ TYP, EACH SIDE OF PLATE

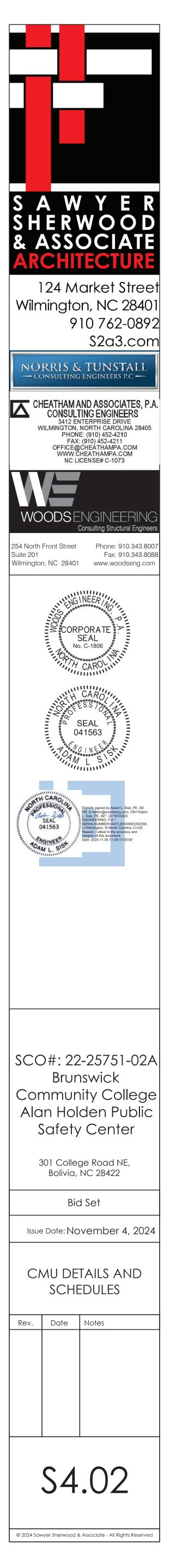
OF COURSES GROUTED (4) (3) (1) (1)

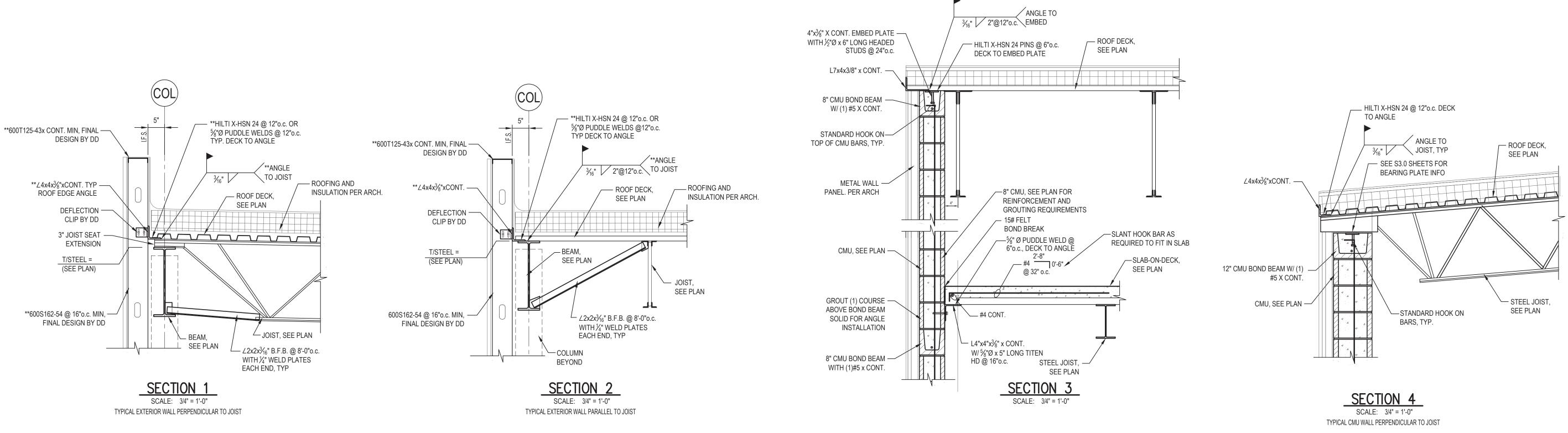
OMMENTS --

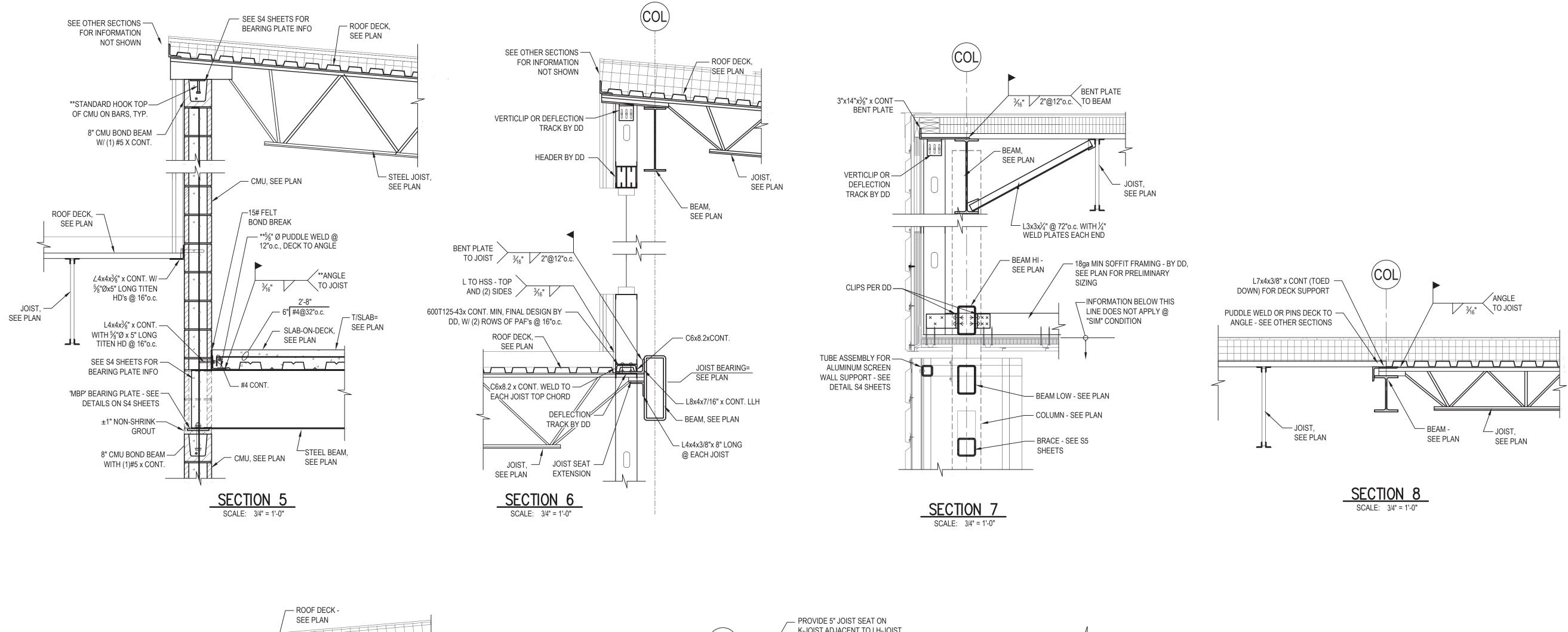


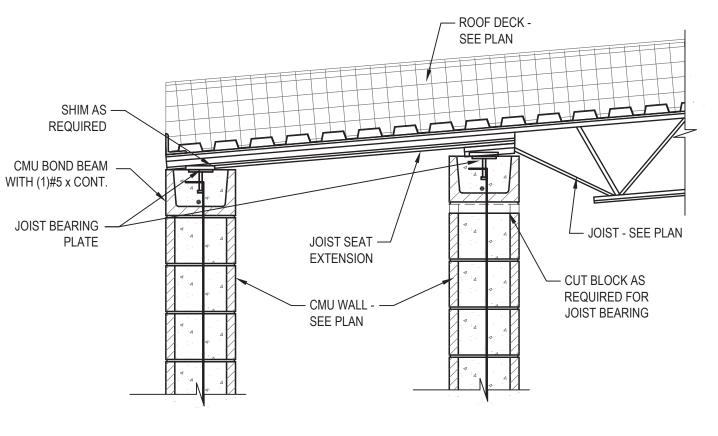
	MASONRY HEADER (MHX) SCHEDULE								
MARK	THICKNESS	BOND BEAM REINFORCING	JAMB REINFORCING	# OF COURSES GROUTED					
MH1	12" CMU	(2) #7	SEE DETAIL 'B'	(4)					
MH2	8" CMU	(1) #6	(2) #5	(3)					
MH3	8" CMU	(1) #5	(1) #5	(1)					
MH4	12" CMU	(1) #5	(1) #5	(1)					

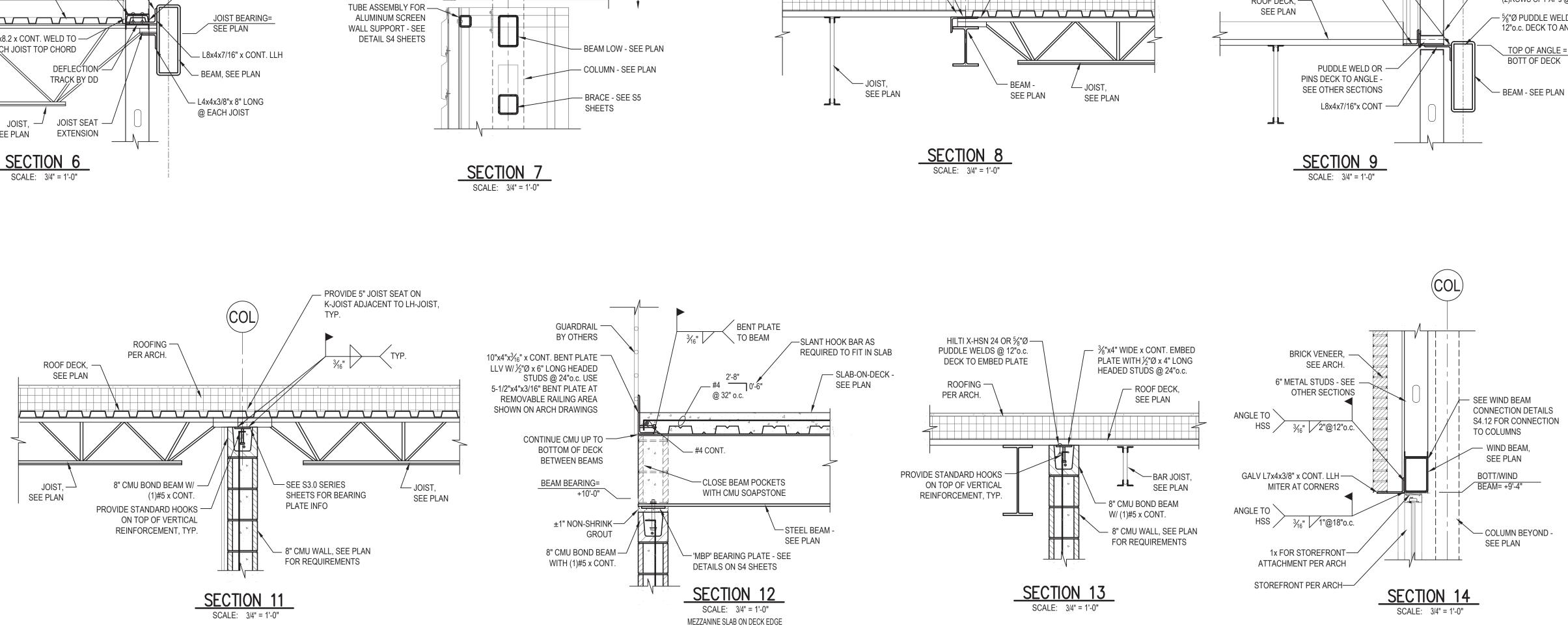
NOTES:
 8" BEARING EACH END
 GROUT ALL JAMBS SOLID
 IF WALL THICKNESS DIFFERS IN THIS SCHEDULE FROM PLANS OR SHEAR WALL SCHEDULE, PLANS OR SHEAR WALL SCHEDULE SHOULD GOVERN.
 SEE DETAIL A THIS SHEET FOR HEADER DETAIL





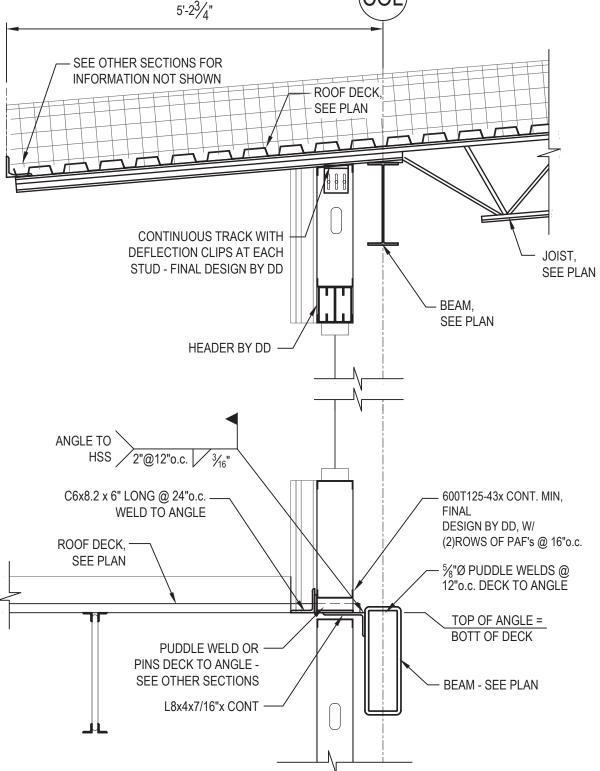






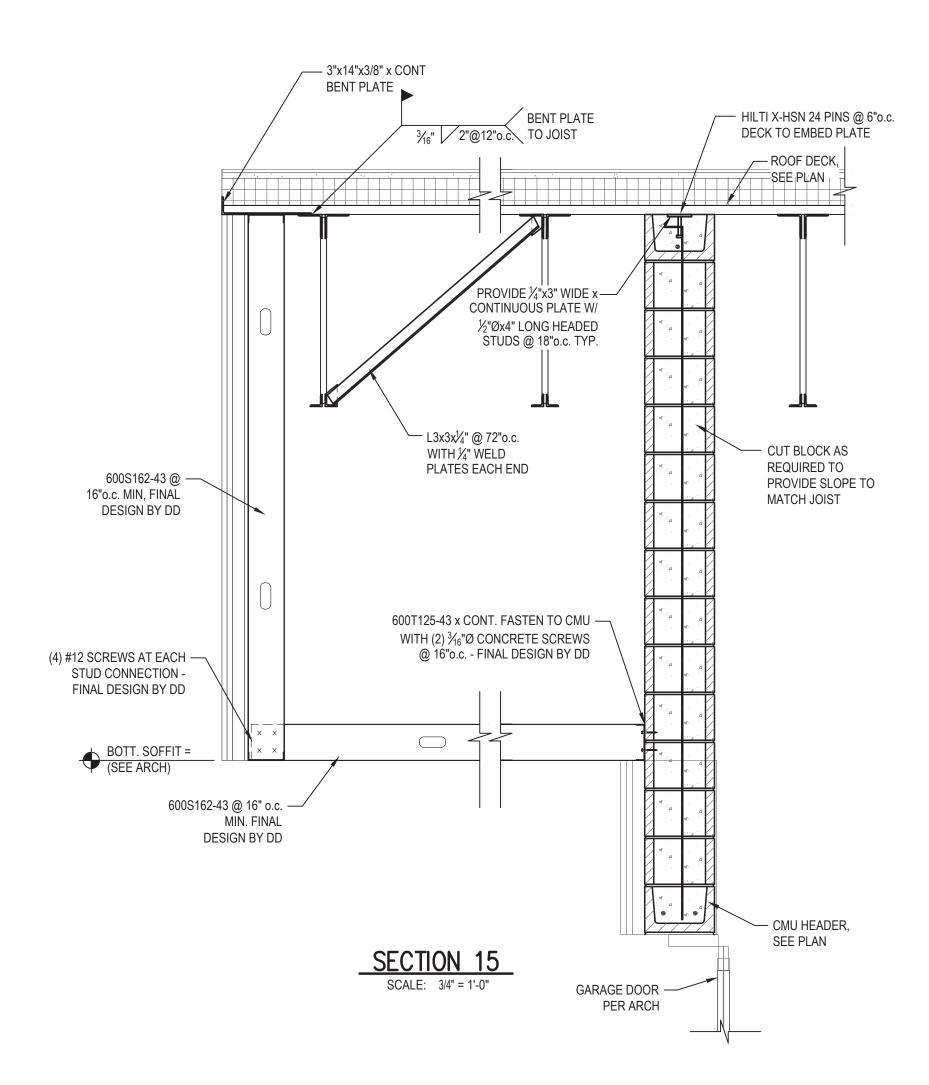
SECTION 10 SCALE: 3/4" = 1'-0"

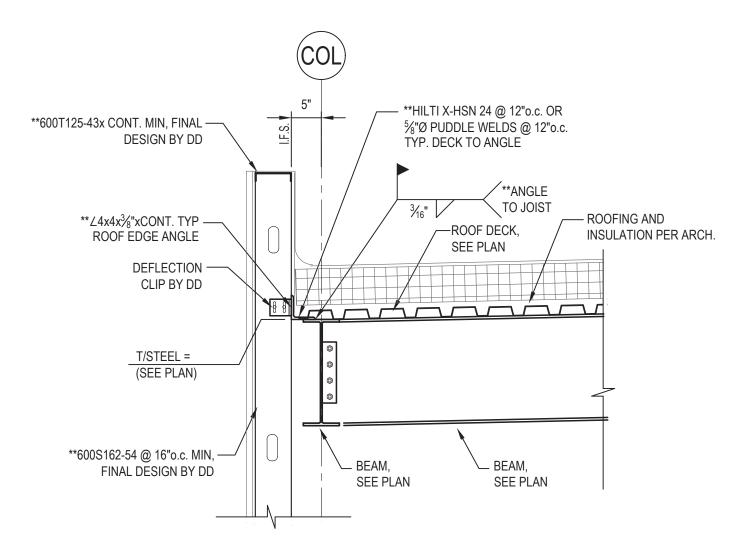
<u>**TYPICAL NOTE:</u> ITEMS NOTED WITH ** ARE TYPICAL AND APPLY TO ALL SIMILAR CONDITIONS U.N.O.



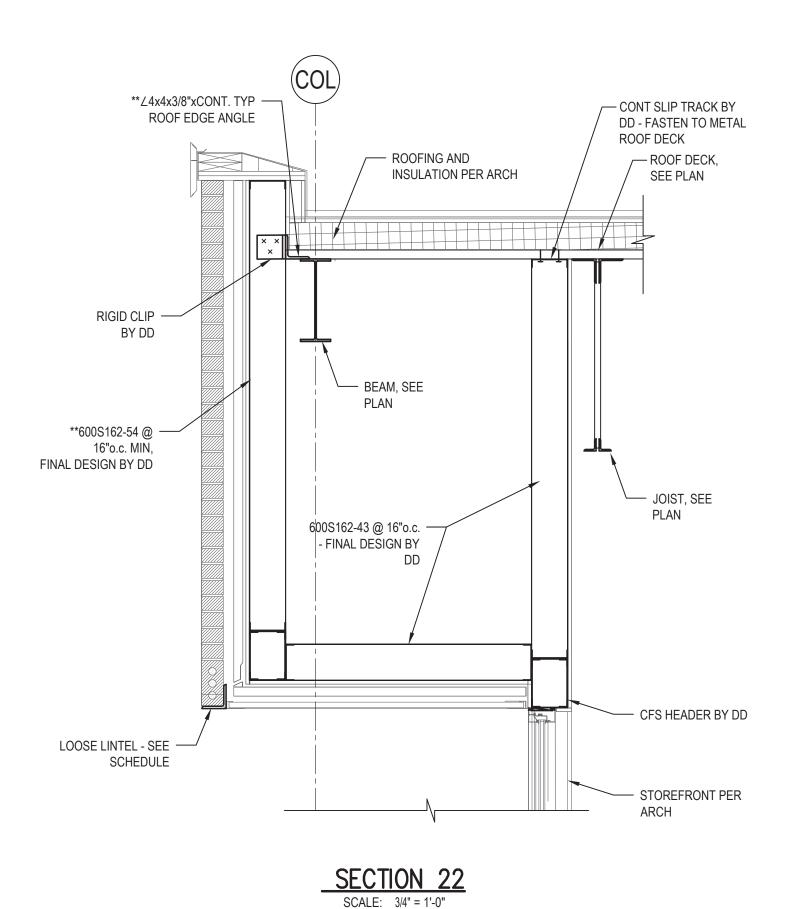
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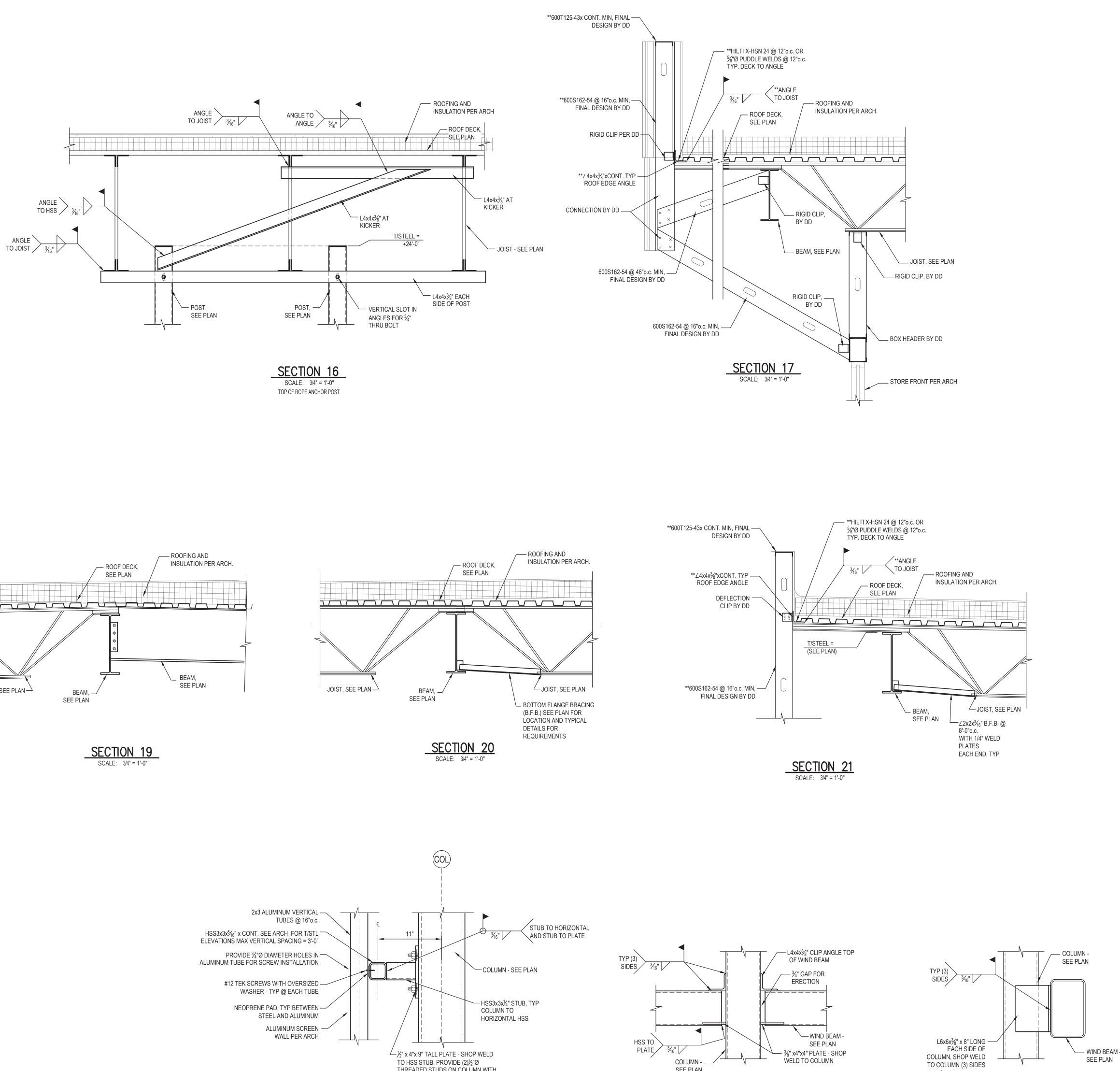






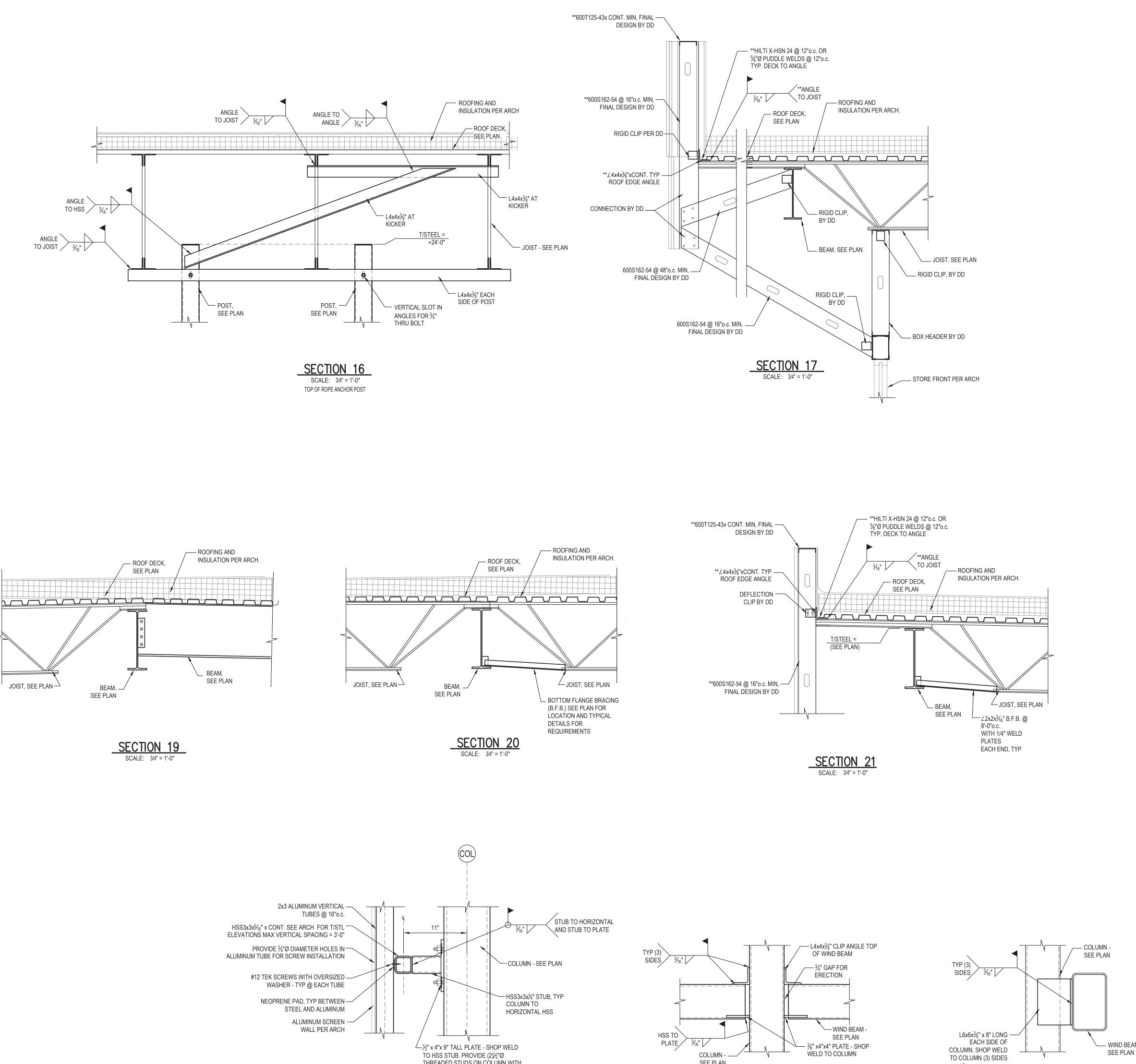
SECTION 18 SCALE: 3/4" = 1'-0"

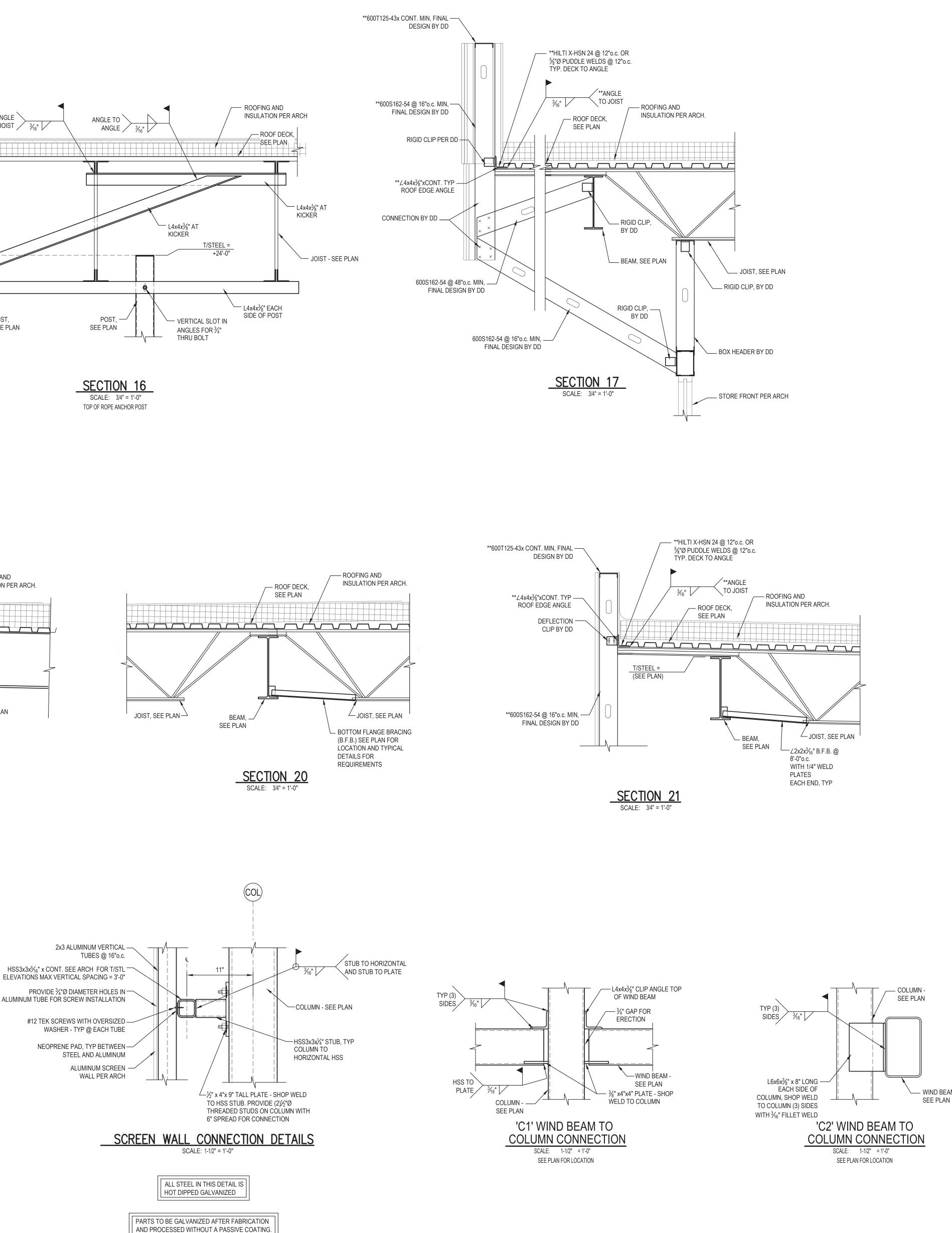




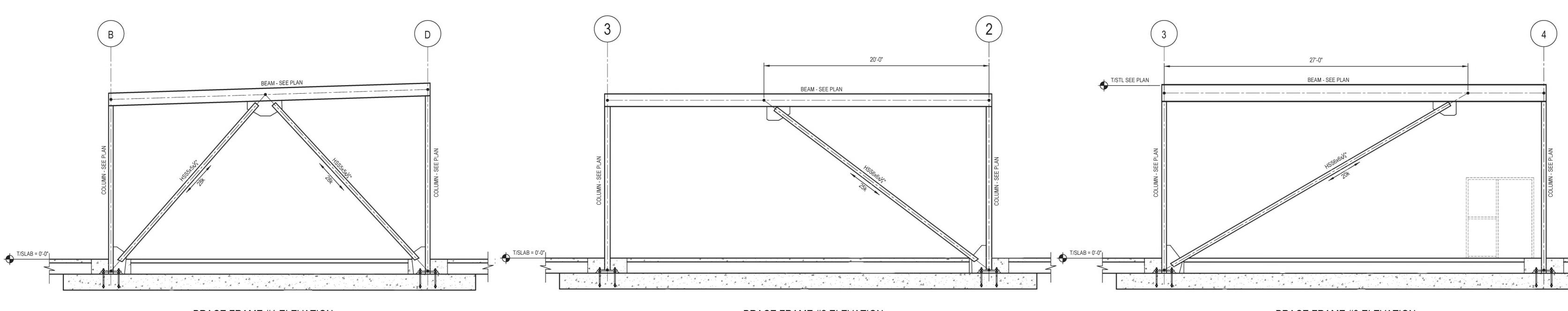
SOME COMPONENTS ARE TO BE PAINTED; IF A PASSIVE COATING IS PROVIDED CONTRARY TO THE SPECS, IT IS THE GC'S RESPONSIBILITY TO

REMOVE THE COATING IN PREPARATION FOR PAINTING AS SPECIFIED IN THE PAINT SPECS.

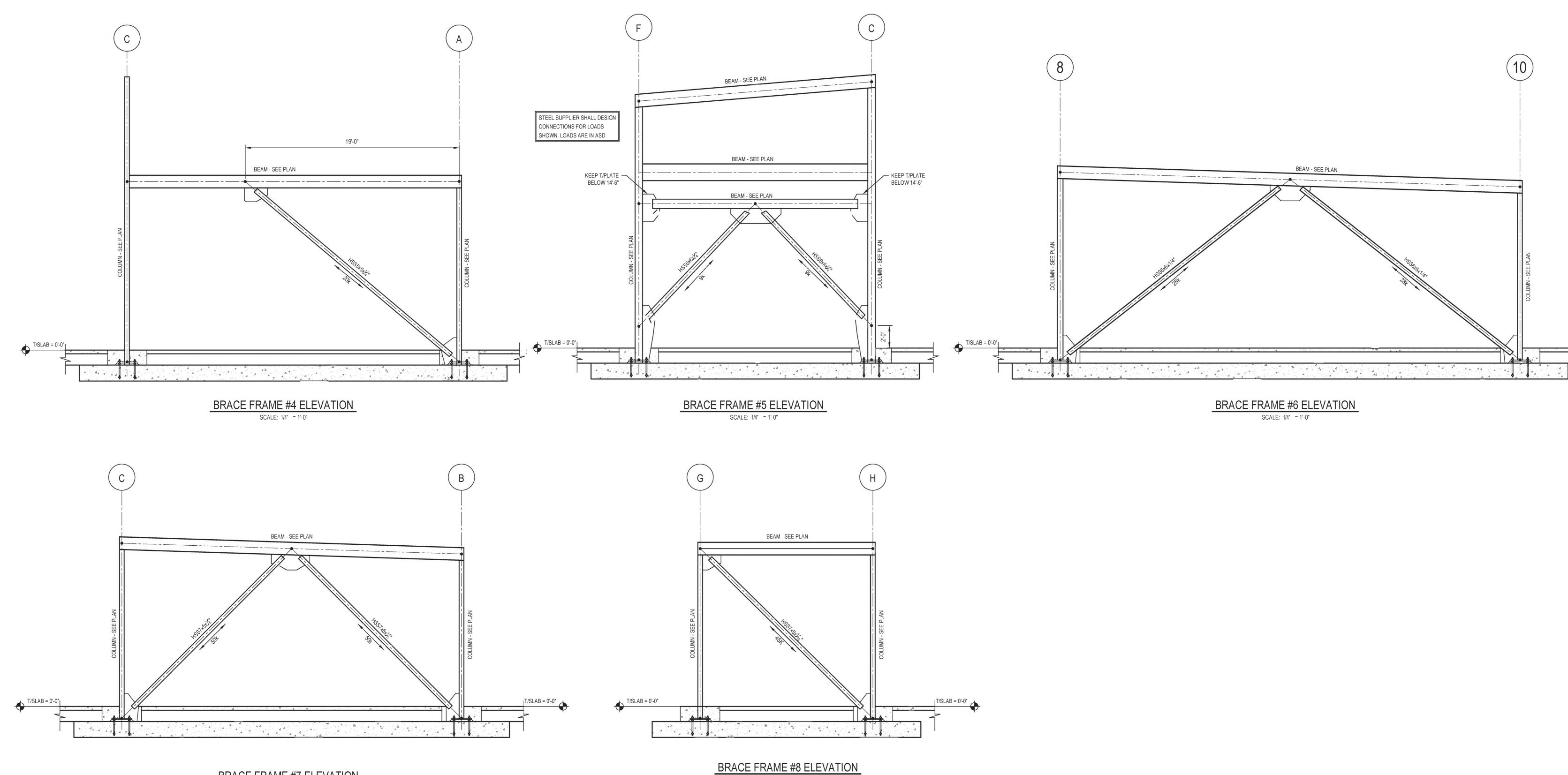








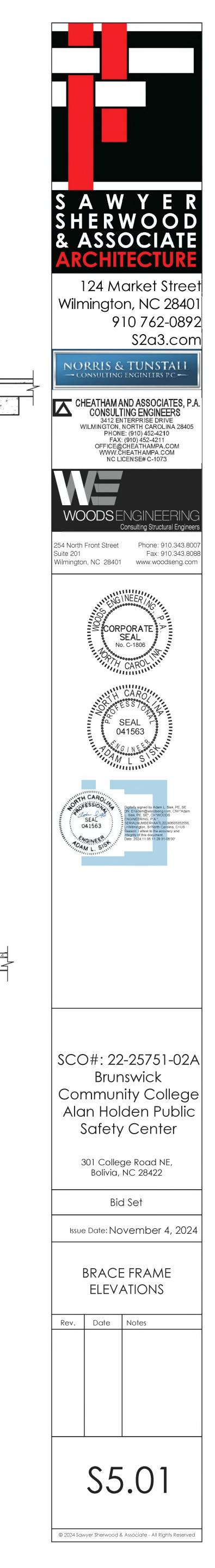
BRACE FRAME #1 ELEVATION SCALE: 1/4" = 1'-0"



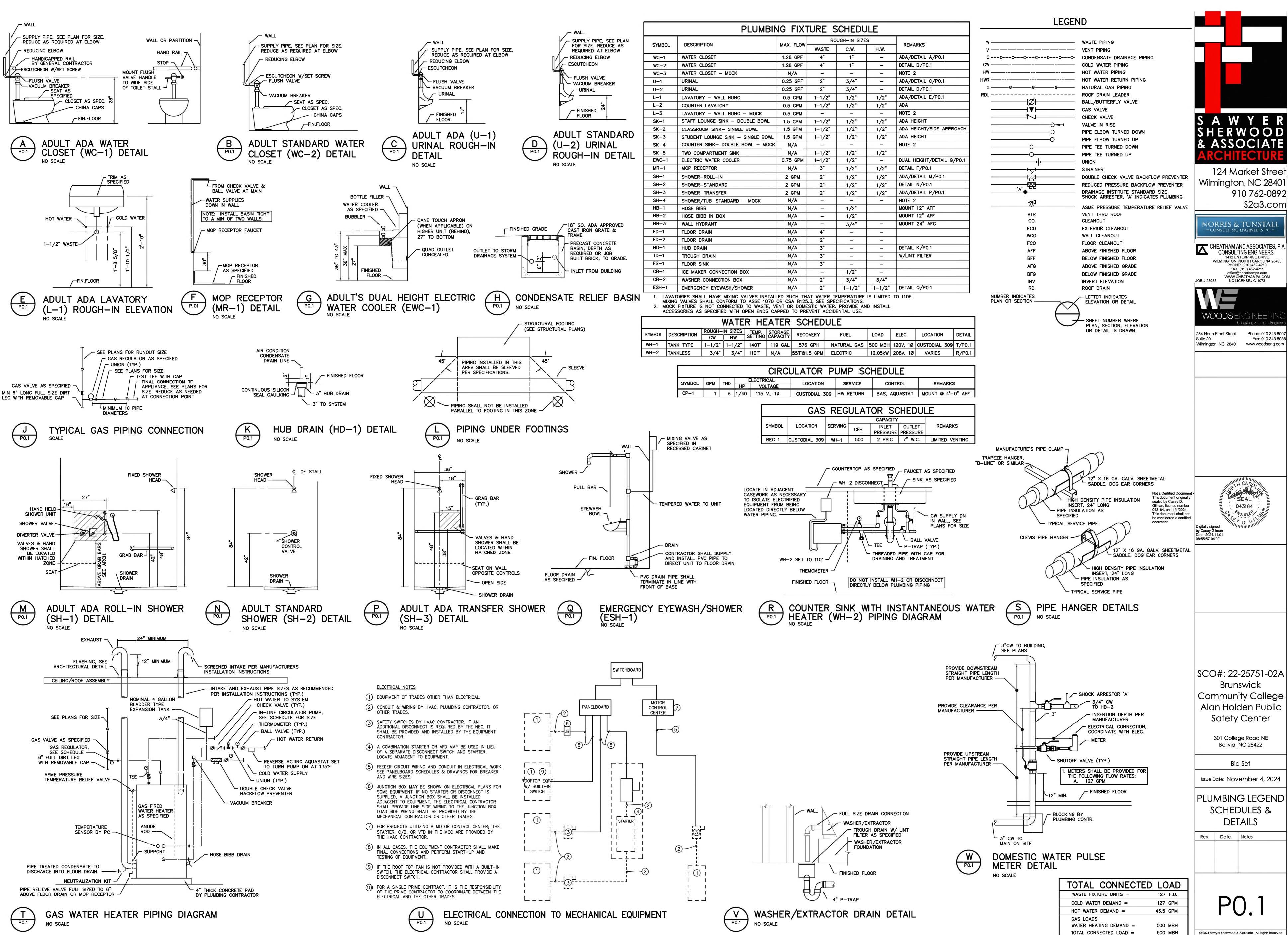
SCALE: 1/4" = 1'-0"

BRACE FRAME #7 ELEVATION SCALE: 1/4" = 1'-0"

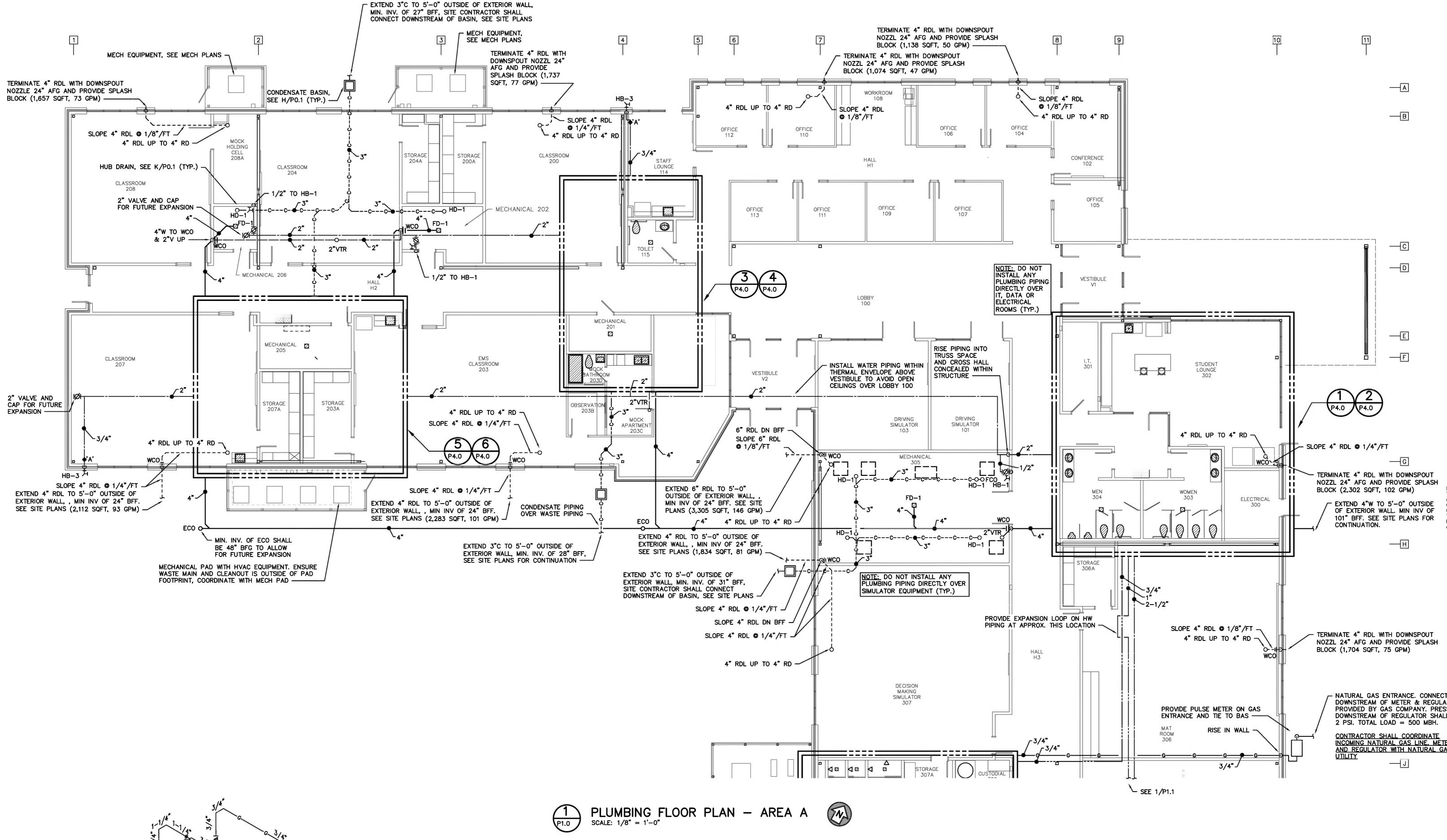
BRACE FRAME #2 ELEVATION SCALE: 1/4" = 1'-0"

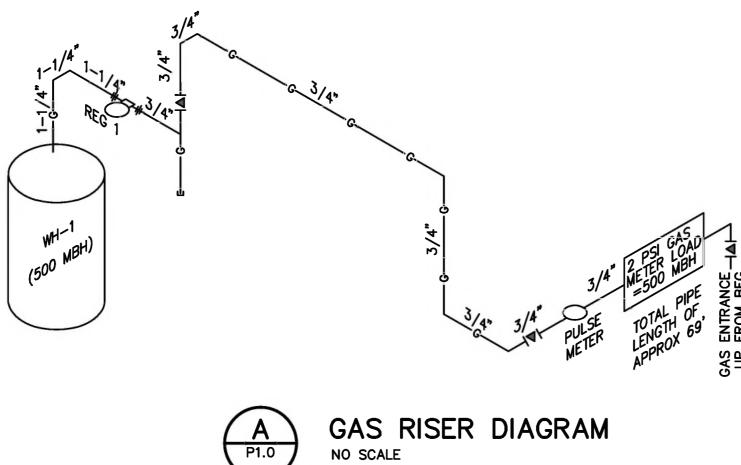


BRACE FRAME #3 ELEVATION SCALE: 1/4" = 1'-0"



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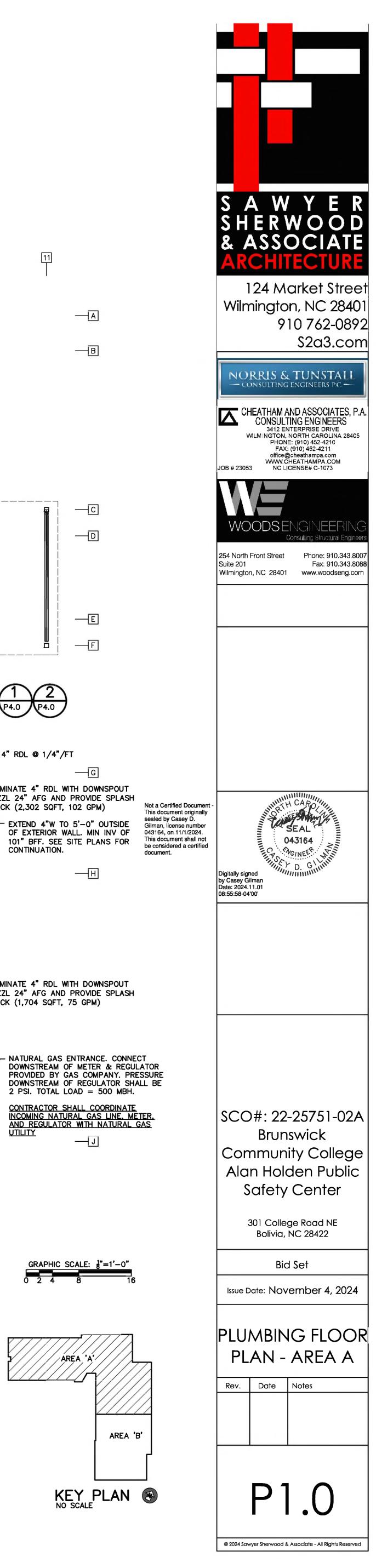


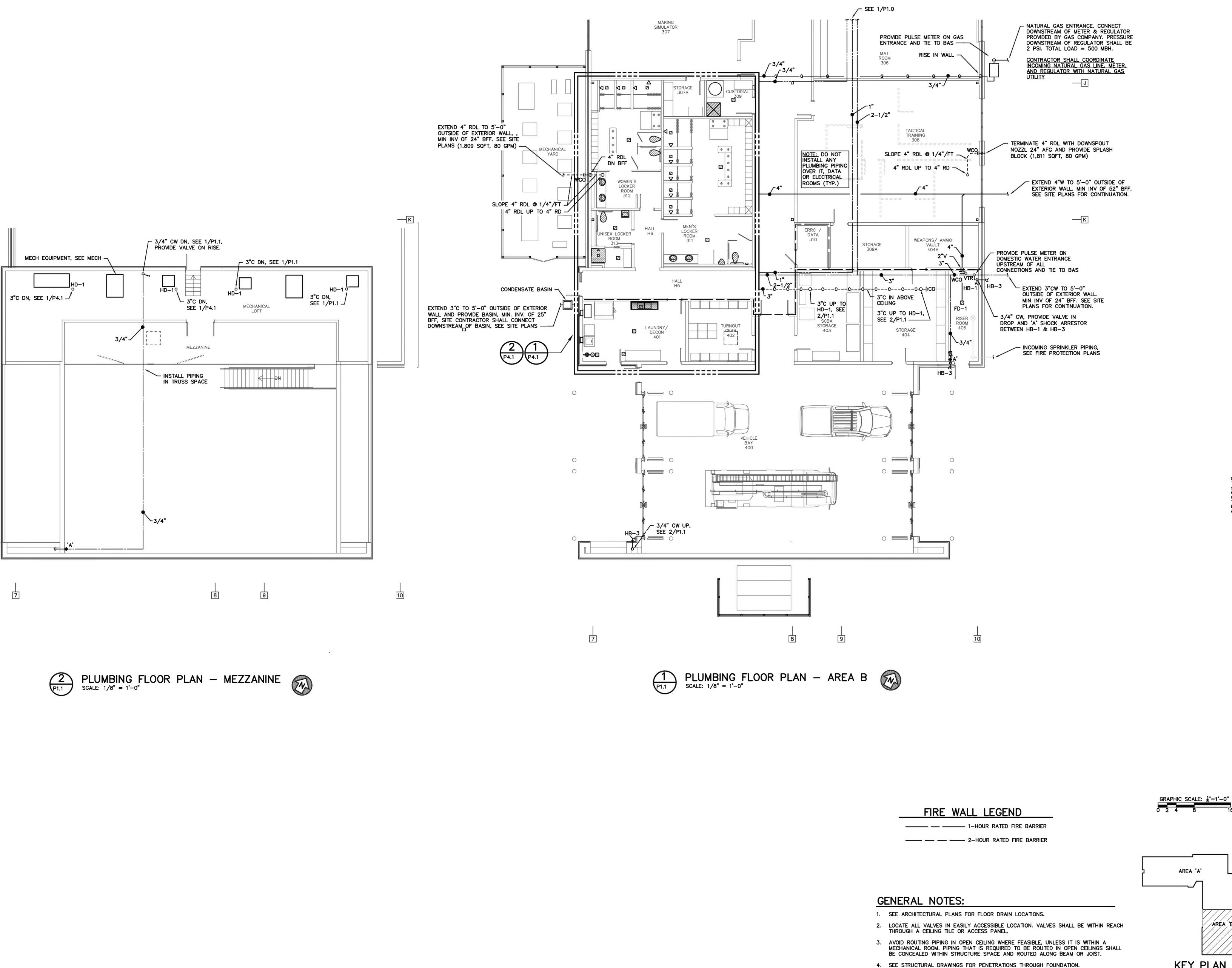
GENERAL NOTES:

- 1. SEE ARCHITECTURAL PLANS FOR FLOOR DRAIN LOCATIONS.
- 2. LOCATE ALL VALVES IN EASILY ACCESSIBLE LOCATION. VALVES SHALL BE WITHIN REACH THROUGH A CEILING TILE OR ACCESS PANEL. 3. AVOID ROUTING PIPING IN OPEN CEILING WHERE FEASIBLE, UNLESS IT IS WITHIN A
- MECHANICAL ROOM. PIPING THAT IS REQUIRED TO BE ROUTED IN OPEN CEILINGS SHALL BE CONCEALED WITHIN STRUCTURE SPACE AND ROUTED ALONG BEAM OR JOIST.
- 4. SEE STRUCTURAL DRAWINGS FOR PENETRATIONS THROUGH FOUNDATION.

FIRE WALL LEGEND ------ 1-HOUR RATED FIRE BARRIER

----- 2-HOUR RATED FIRE BARRIER

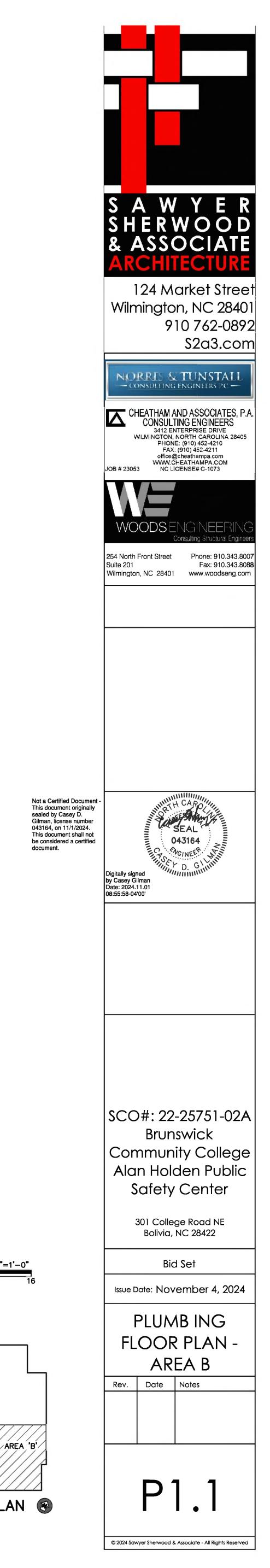






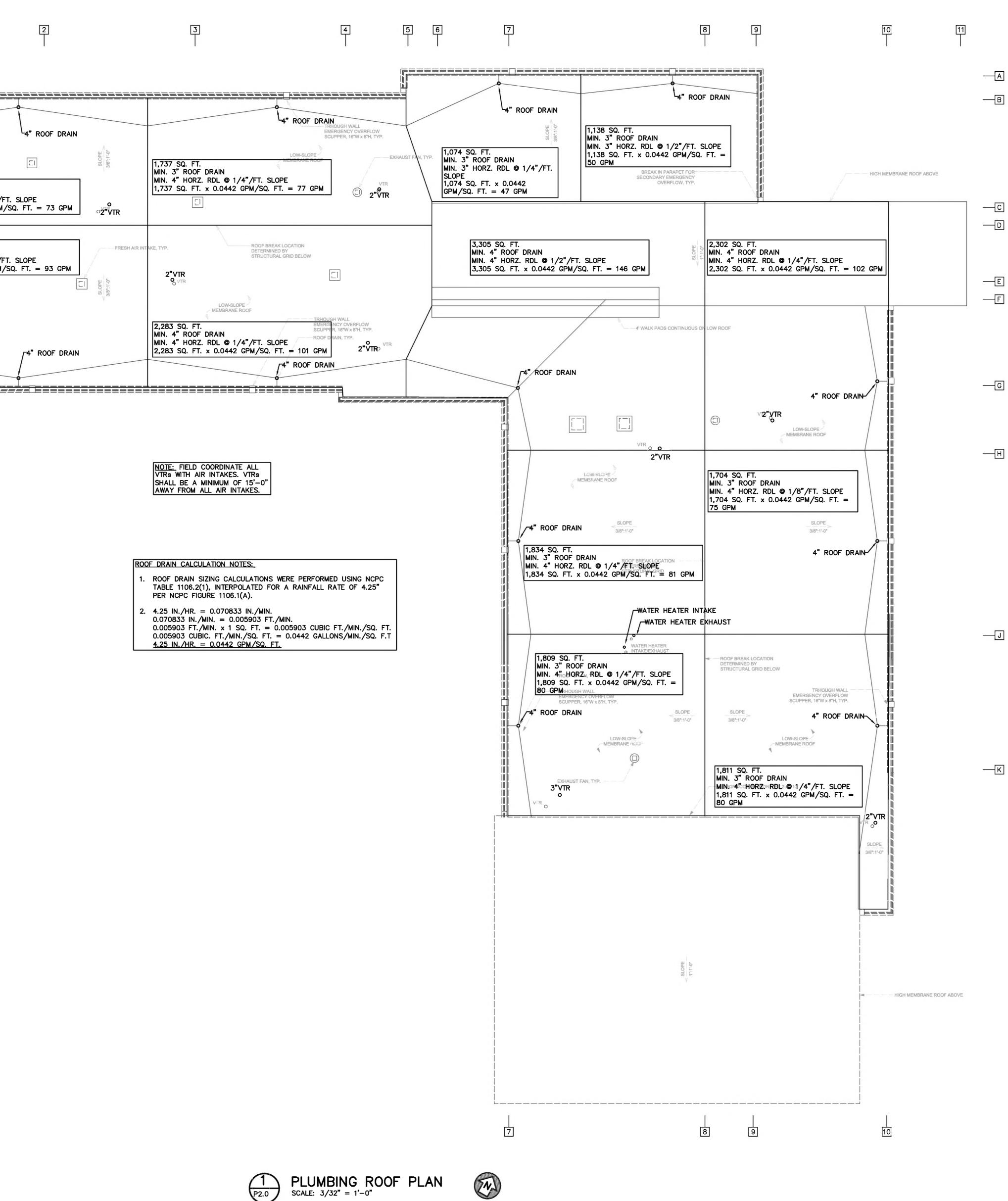


KEY PLAN 🐼



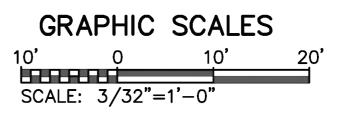
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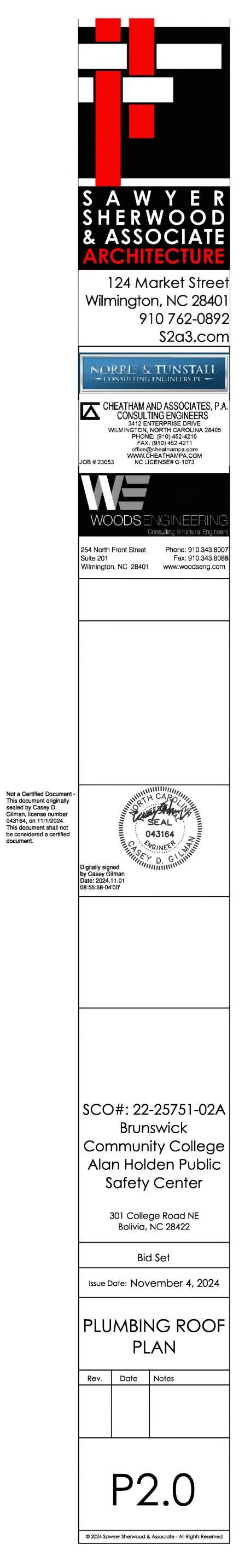
1,657 SQ. FT.
MIN. 3" ROOF DRAIN
MIN. 4" HORZ. RDL @ 1/8"/F
1,657 SQ. FT. x 0.0442 GPM
2,112 SQ. FT.
MIN 4" ROOF DRAIN
MIN. 4" HORZ. RDL @ 1/4"/F
2,112 SQ. FT. x 0.0442 GPM/

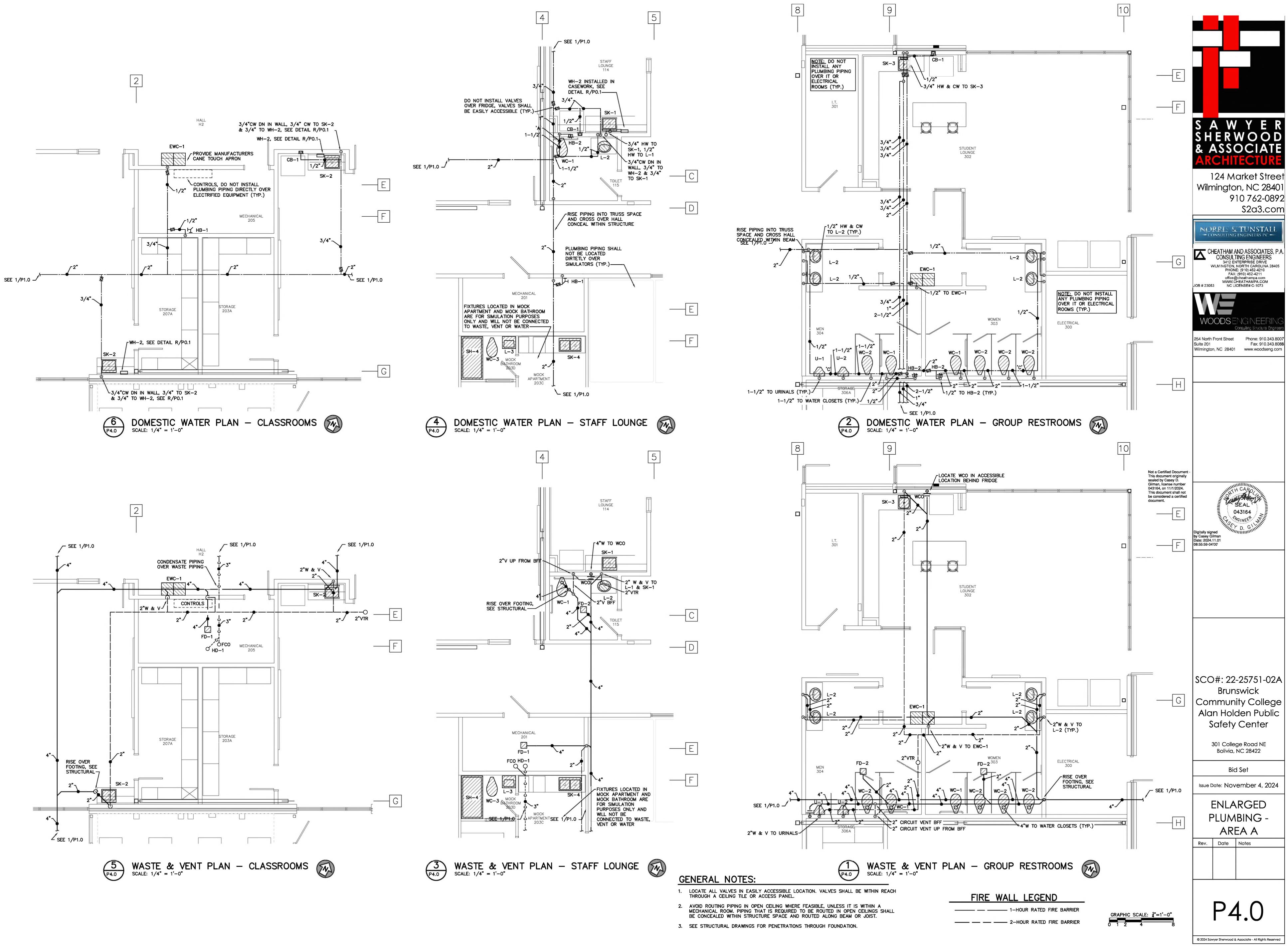


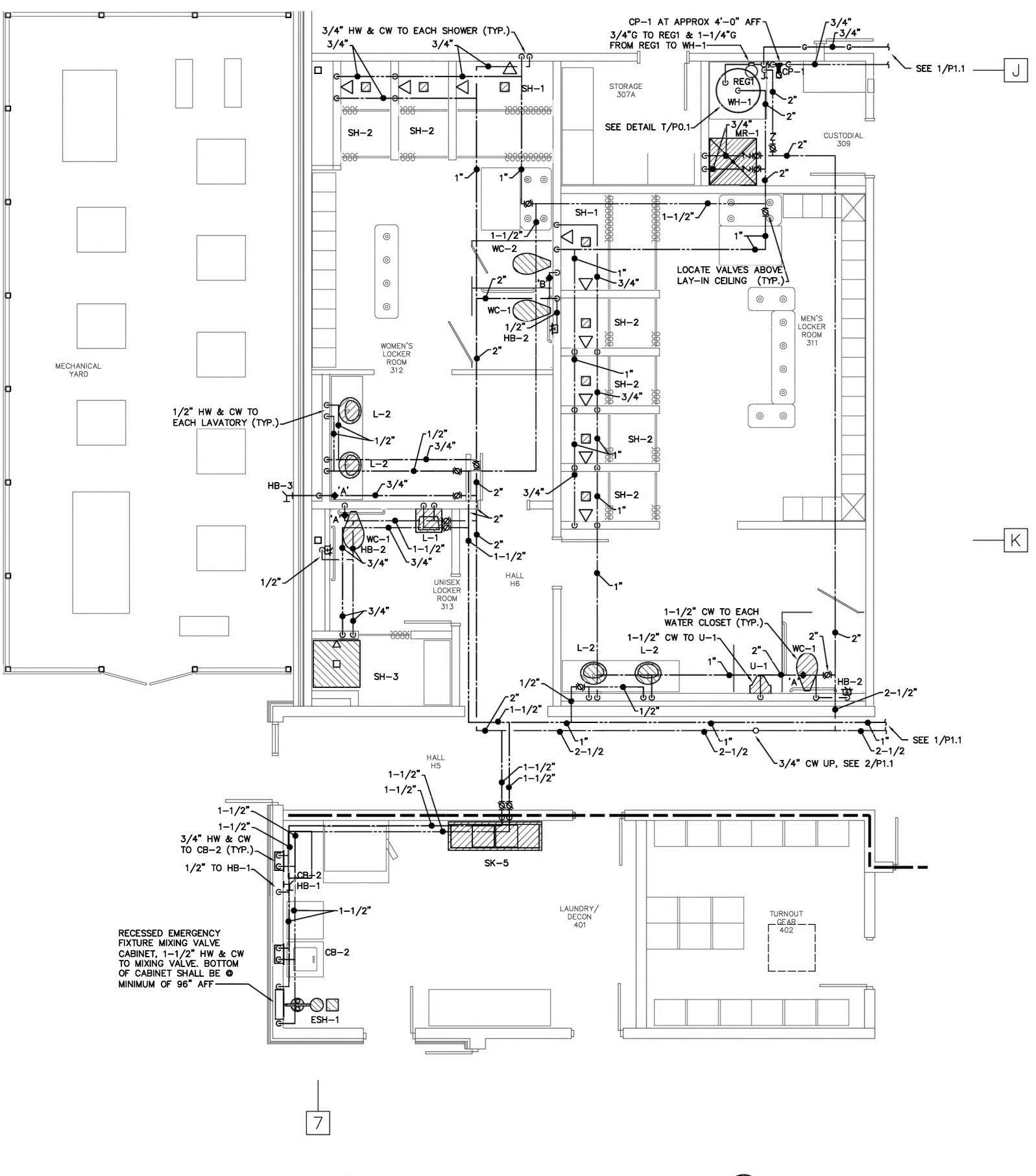
1 P2.0

PLUMBING ROOF PLAN SCALE: 3/32" = 1'-0"

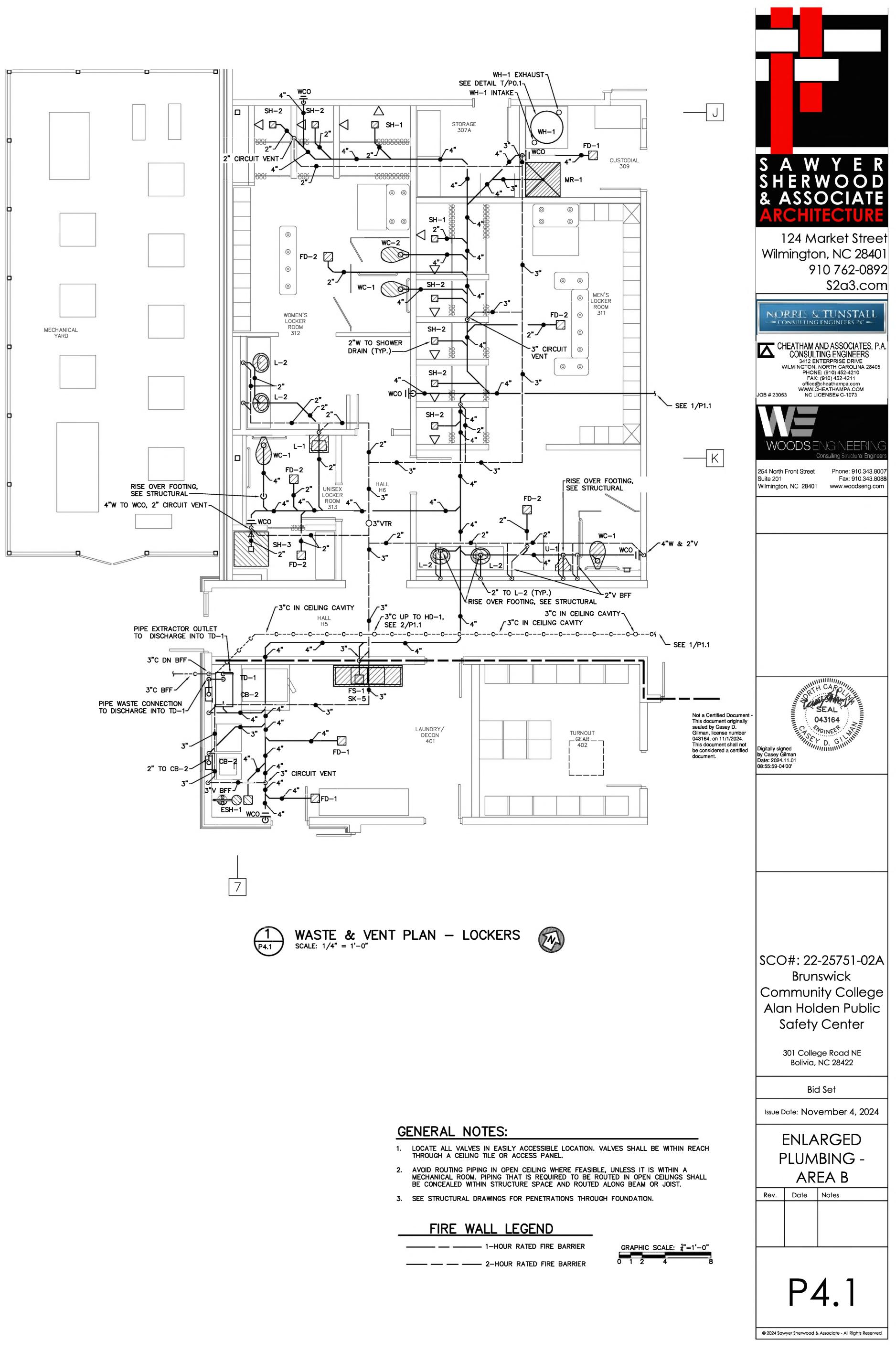


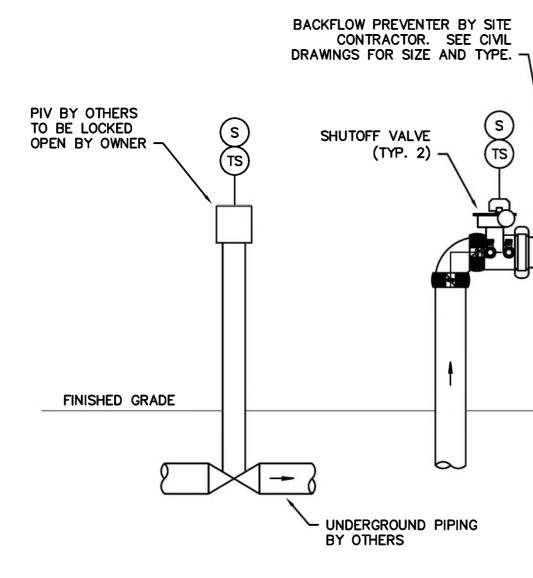


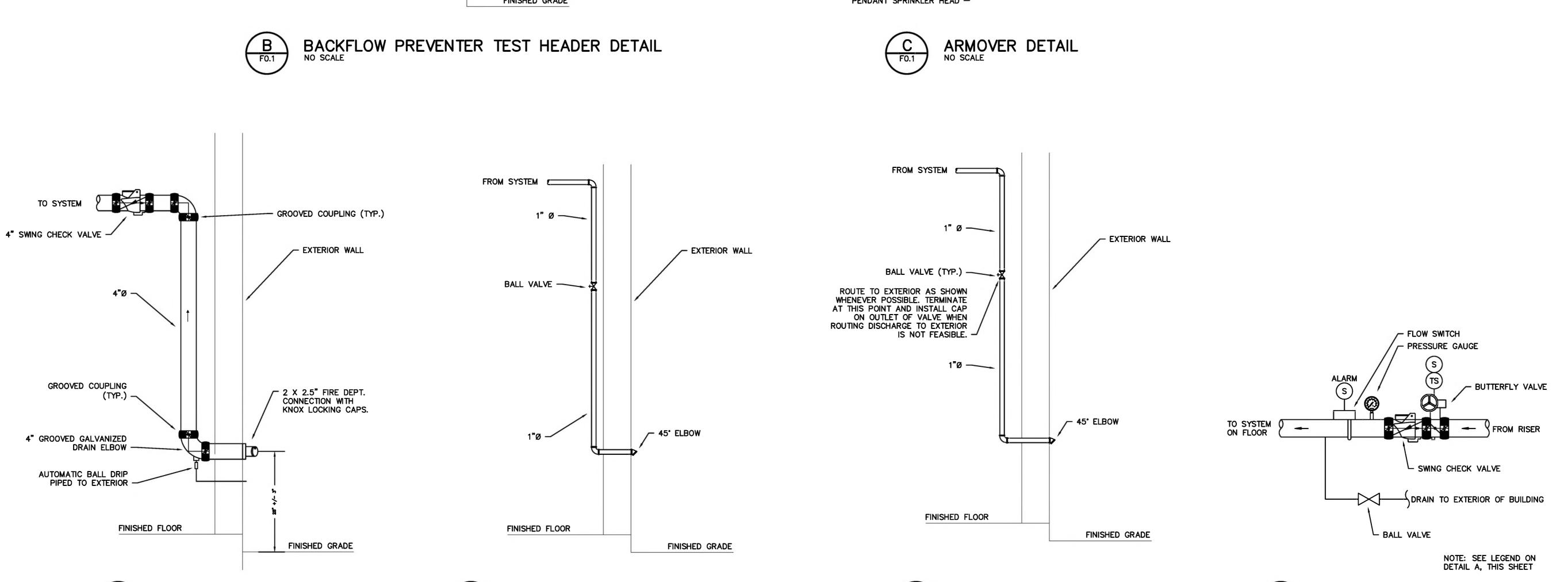




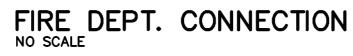
 $\begin{array}{c} \hline 2 \\ \hline P4.1 \end{array} \quad \begin{array}{c} \text{DOMESTIC WATER PLAN} - \text{LOCKERS} \\ \hline \text{SCALE: } 1/4" = 1'-0" \end{array}$









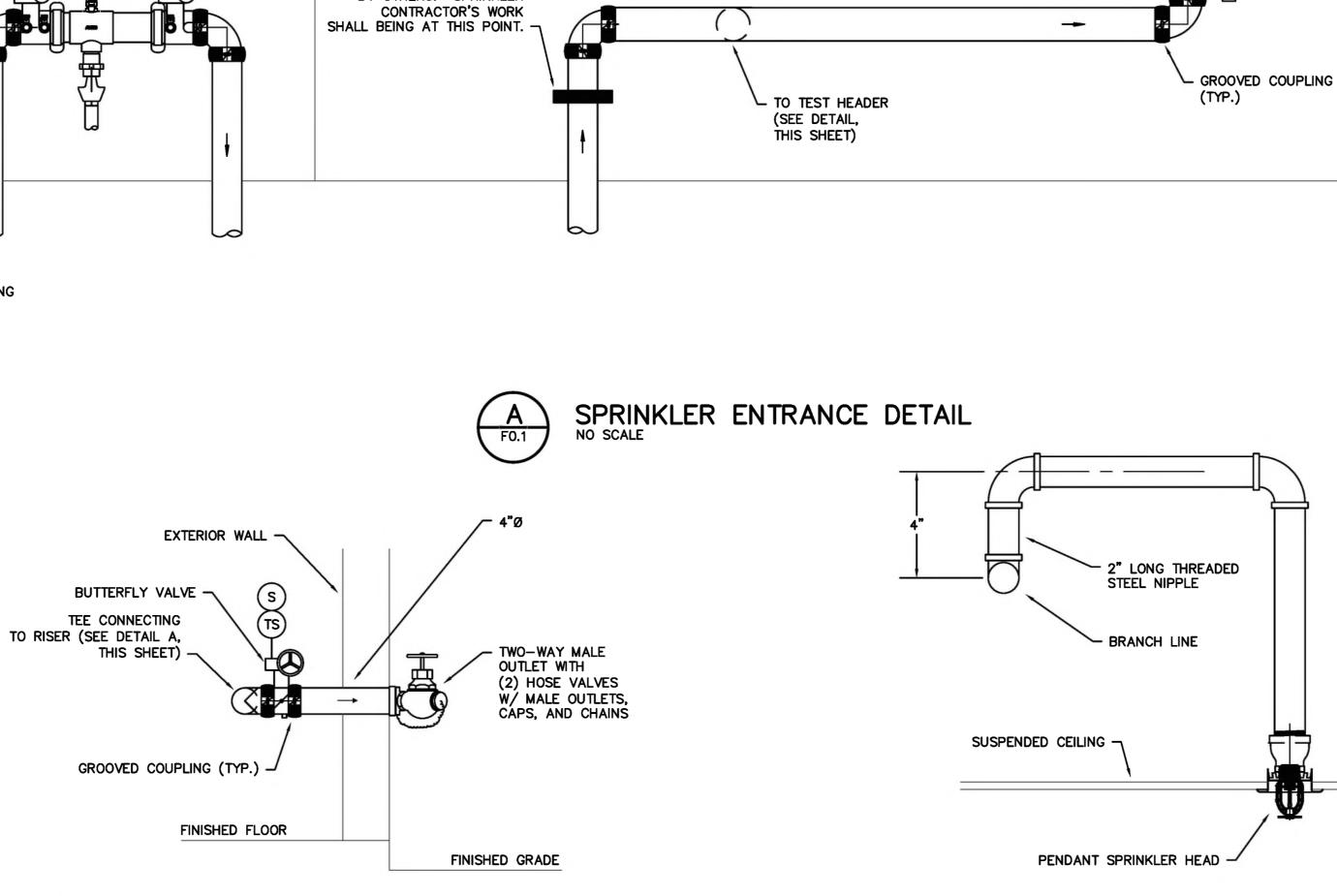


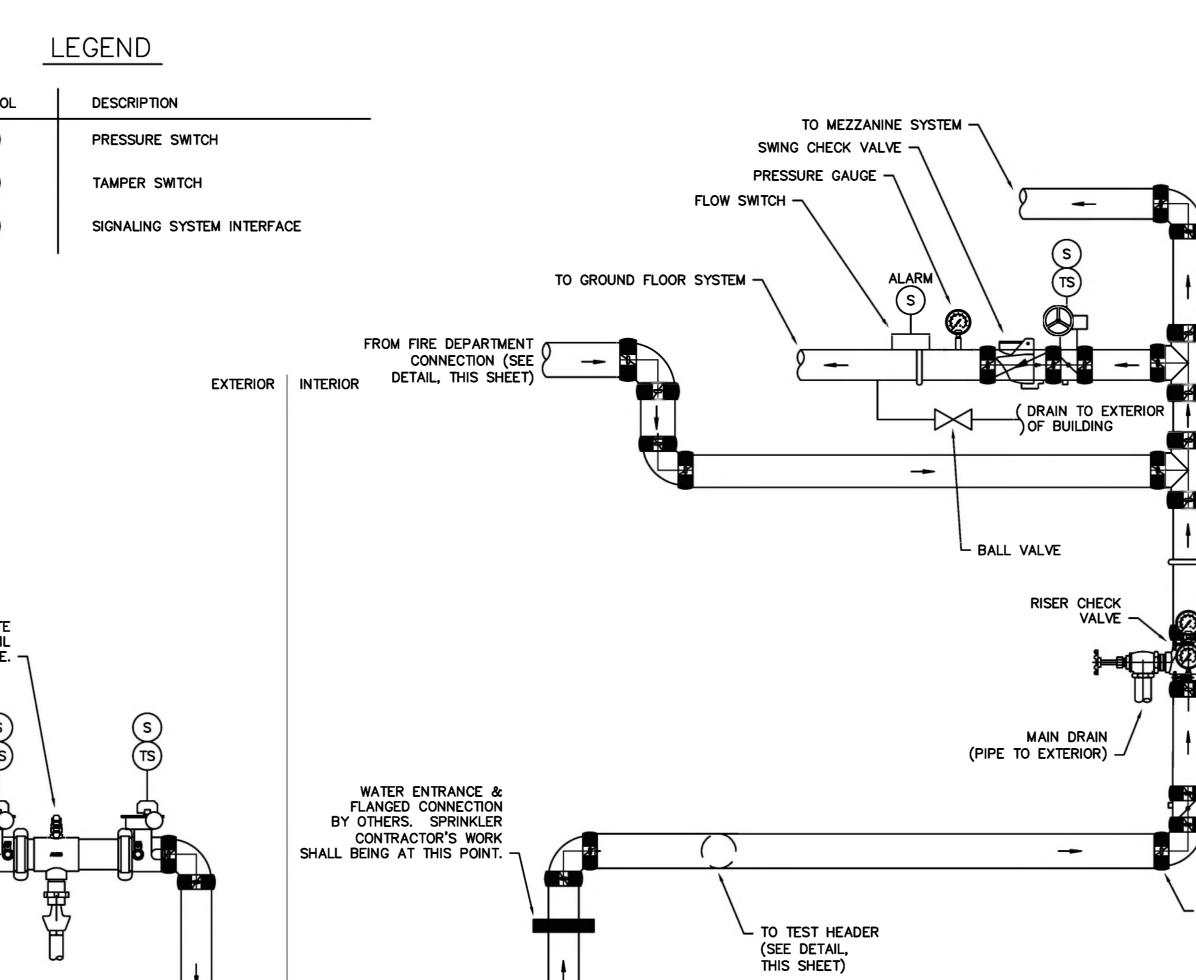




INSPECTOR'S TEST CONNECTION







- ELECTRIC ALARM BELL 0 FLOW SWITCH ALARM - PRESSURE GAUGE (TYP.) - BUTTERFLY VALVE (TYP.)

FINISHED FLOOR

GENERAL NOTES: (APPLIES TO ALL FIRE PROTECTION DRAWINGS)

- SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH BUILDING STRUCTURE AND SYSTEMS, AS WELL AS THE WORK OF OTHER TRADES IN ORDER TO ELIMINATE CONFLICTS.
- 2. SPRINKLER CONTRACTOR'S DESIGN SHALL BE PER NFPA 13 AND THE NC STATE FIRE CODE (LATEST EDITION APPROVED BY THE NC BUILDING CODE COUNCIL WITH NC AMENDMENTS).
- 3. SPRINKLER CONTRACTOR SHALL PERFORM THEIR OWN FLOW TEST.
- 4. PROVIDE AUXILIARY DRAINS WHEREVER WET SYSTEM PIPING IS ROUTED SUCH THAT WATER IS TRAPPED IN EXCESS OF 5 GALLONS. 5. LIGHT HAZARD OCCUPANCIES: PER NFPA 13, DESIGN DENSITY SHALL BE 0.1 GPM
- PER SQUARE FOOT OVER THE MOST REMOTE 1,500 SQUARE FEET. REMOTE AREA SHALL BE INCREASED BY 30% WHERE SPRINKLER ARE LOCATED BELOW SLOPED CEILINGS OR ROOFS WITH SLOPE GREATER THAN 2:12 PER NFPA 13. HOSE ALLOWANCE FOR LIGHT HAZARD SHALL BE 100 GPM PER NFPA 13.
- ORDINARY HAZARD I OCCUPANCIES: PER NFPA 13, DESIGN DENSITY SHALL BE 0.15 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1,500 SQUARE FEET. REMOTE AREA SHALL BE INCREASED BY 30% WHERE SPRINKLER ARE LOCATED BELOW SLOPED CEILINGS OR ROOFS WITH SLOPE GREATER THAN 2:12 PER NFPA 13. HOSE ALLOWANCE FOR ORDINARY HAZARD I SHALL BE 250 GPM PER NFPA 13.
- ORDINARY HAZARD II OCCUPANCIES: PER NFPA 13, DESIGN DENSITY SHALL BE 0.20 GPM PER SQUARE FOOT OVER THE MOST REMOTE 1,500 SQUARE FEET. REMOTE AREA SHALL BE INCREASED BY 30% WHERE SPRINKLER ARE LOCATED BELOW SLOPED CEILINGS OR ROOFS WITH SLOPE GREATER THAN 2:12 PER NFPA 13. HOSE ALLOWANCE FOR ORDINARY HAZARD II SHALL BE 250 GPM PER NFPA 13.
- 8. REMOTE AREAS MAY BE DECREASED DUE TO THE USE OF QUICK RESPONSE HEADS WHERE ALLOWED BY NFPA 13.
- 9. LOCATE SPRINKLER HEADS IN THE CENTER OF CEILING TILES AND IN-LINE WITH LIGHTS AND OTHER CEILING MOUNTED ITEMS.

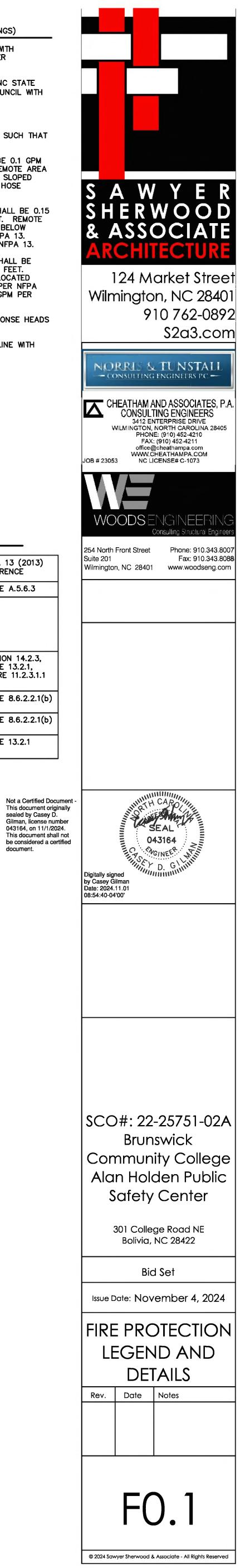
DESIGN CRITERIA FOR AMMUNITION STORAGE

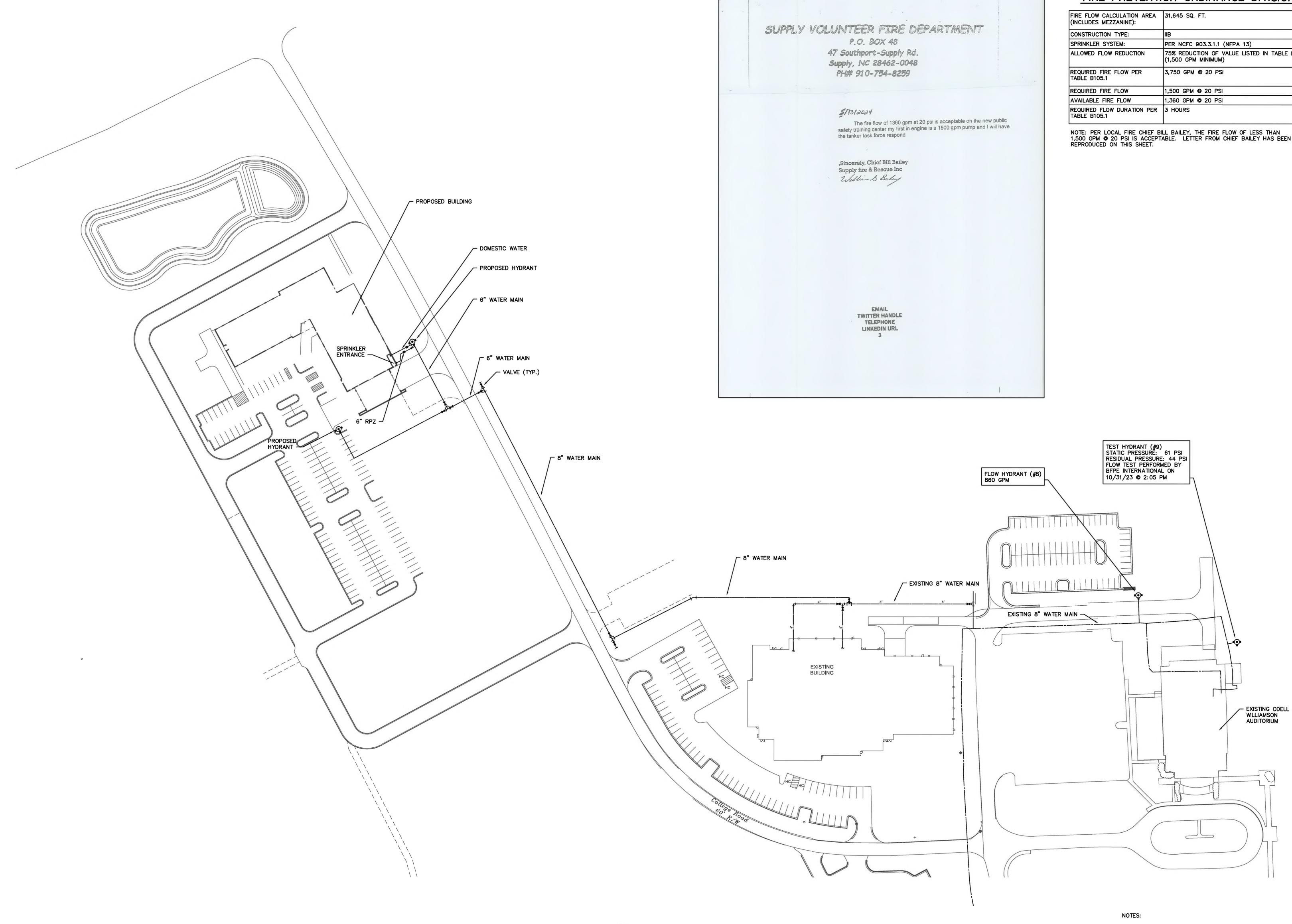
		NFPA 13 (REFERENCE	
PRIMARY STORAGE:	AMMUNITION IN CARTONS (COMMODITY CLASS IV)	TABLE A.5	
STORAGE ARRANGEMENT: METAL SHELVES, CARTONED IN ORIGINAL CARDBOARD PACKAGING		N/A	
MAXIMUM STORAGE HEIGHT:	10 FEET		
CEILING SLOPE:	< 2:12 (NON-SLOPED PER NFPA 13)		
DESIGN DENSITY/REMOTE AREA:	0.20 GPM/SQ. FT. OVER 1,500 SQ. FT. (ORDINARY HAZARD GROUP II)	SECTION 14 TABLE 13.2 FIGURE 11.	
MAX AREA OF COVERAGE/HEAD:	130 SQ. FT.	TABLE 8.6	
MAX HEAD SPACING:	15 FT.	TABLE 8.6.	
HOSE ALLOWANCE:	250 GPM	TABLE 13.2	

AUXILIARY DRAIN DETAIL

 $\left(\begin{array}{c} \mathbf{G} \\ \overline{\mathbf{F0.1}} \end{array}\right)$

FLOOR CONTROL ASSEMBLY





 $\begin{array}{c} 1 \\ \hline F0.2 \end{array} \quad FIRE PROTECTION SITE PLAN \\ SCALE: 1" = 60'-0" \end{array}$

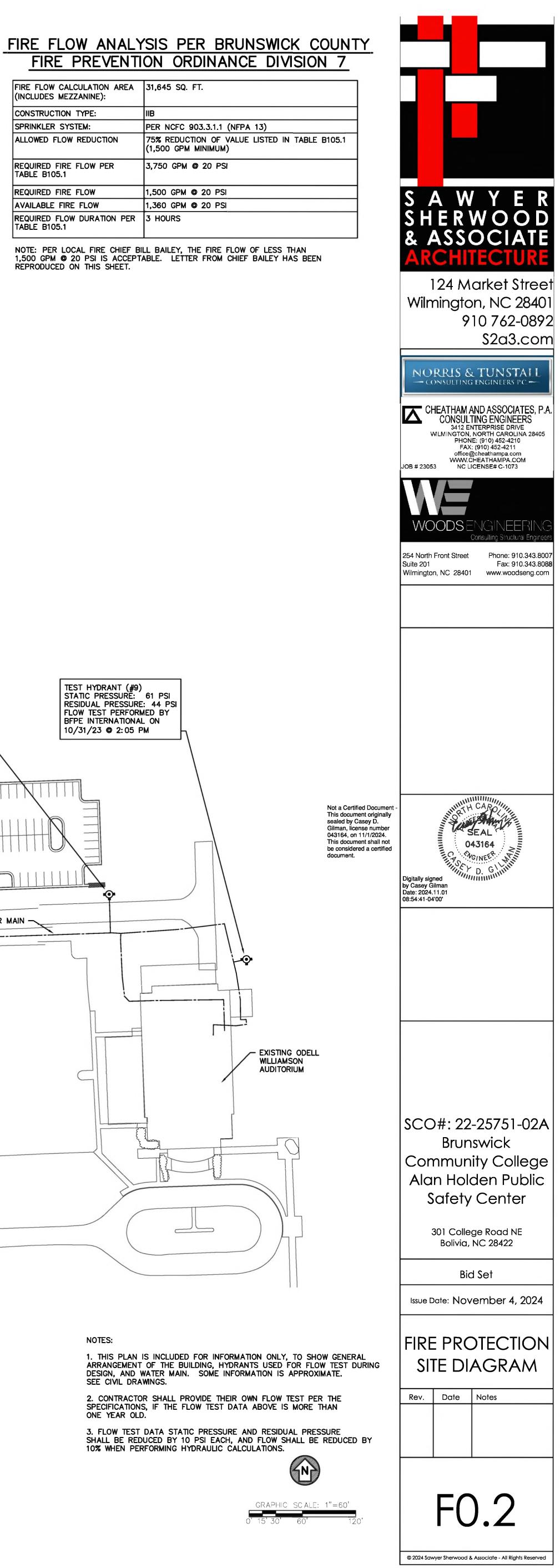


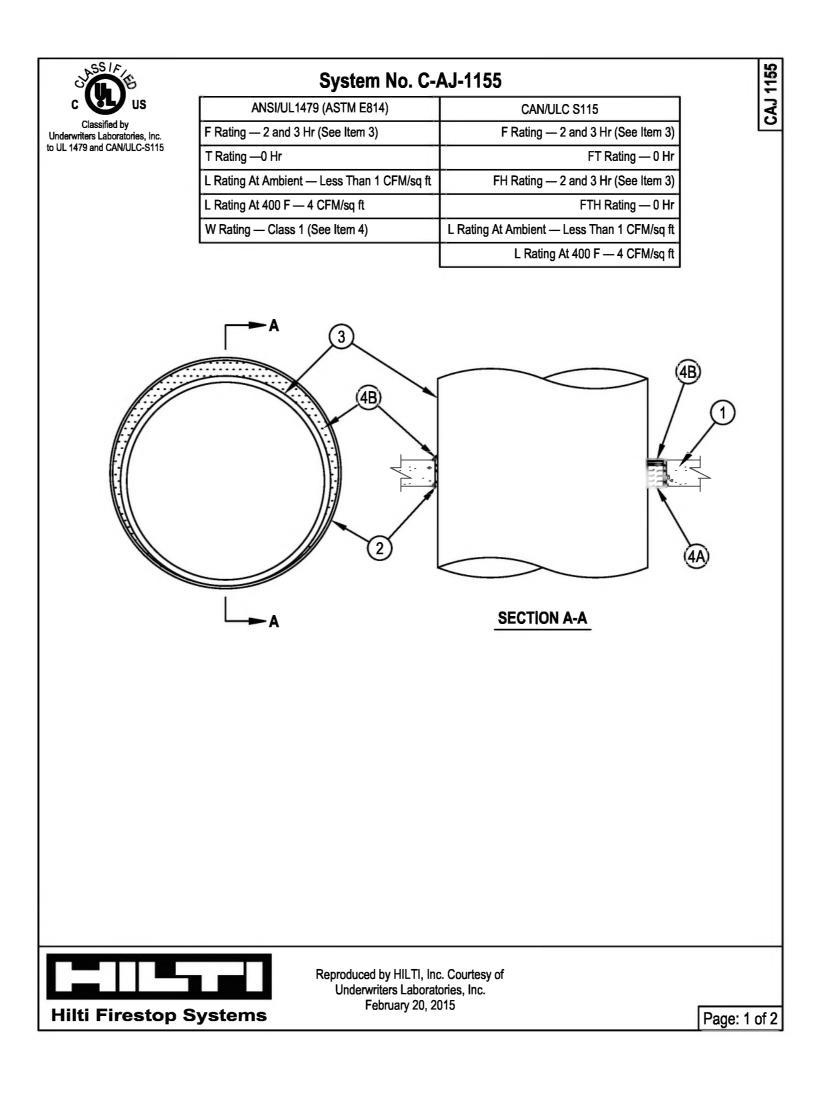


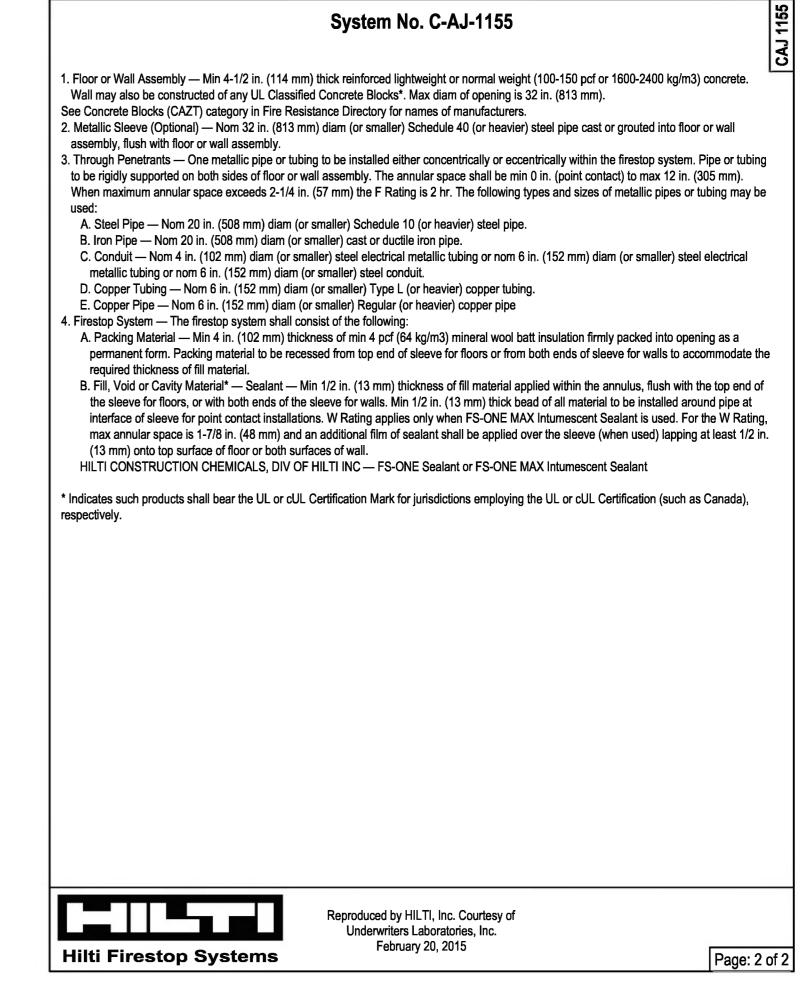
1. THIS PLAN IS INCLUDED FOR INFORMATION ONLY, TO SHOW GENERAL ARRANGEMENT OF THE BUILDING, HYDRANTS USED FOR FLOW TEST DURING DESIGN, AND WATER MAIN. SOME INFORMATION IS APPROXIMATE. SEE CIVIL DRAWINGS. 2. CONTRACTOR SHALL PROVIDE THEIR OWN FLOW TEST PER THE SPECIFICATIONS, IF THE FLOW TEST DATA ABOVE IS MORE THAN ONE YEAR OLD. 3. FLOW TEST DATA STATIC PRESSURE AND RESIDUAL PRESSURE SHALL BE REDUCED BY 10 PSI EACH, AND FLOW SHALL BE REDUCED BY 10% WHEN PERFORMING HYDRAULIC CALCULATIONS.

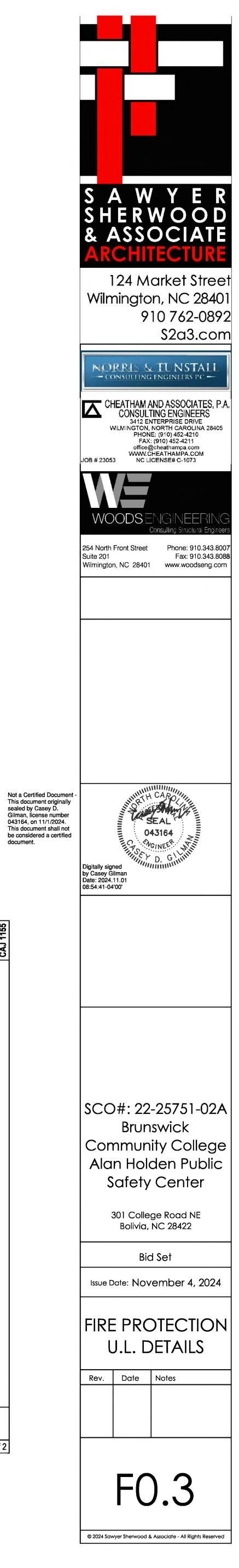
FIRE PREVENTION ORDINANCE DIVISION 7 75% REDUCTION OF VALUE LISTED IN TABLE B105.1

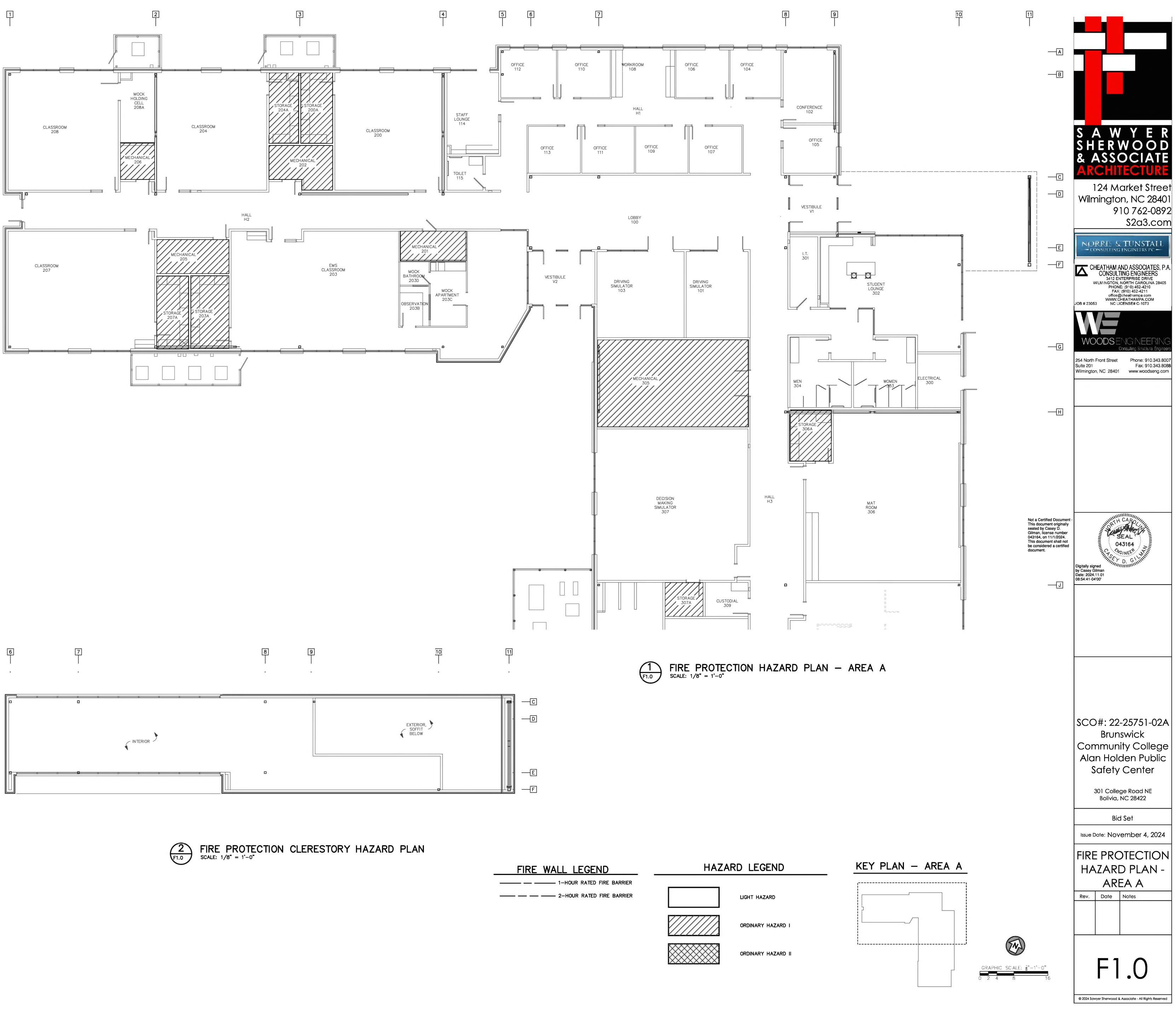
NOTE: PER LOCAL FIRE CHIEF BILL BAILEY, THE FIRE FLOW OF LESS THAN 1,500 GPM © 20 PSI IS ACCEPTABLE. LETTER FROM CHIEF BAILEY HAS BEEN REPRODUCED ON THIS SHEET.





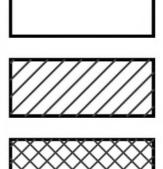


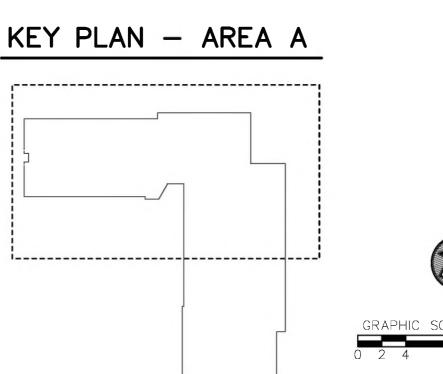


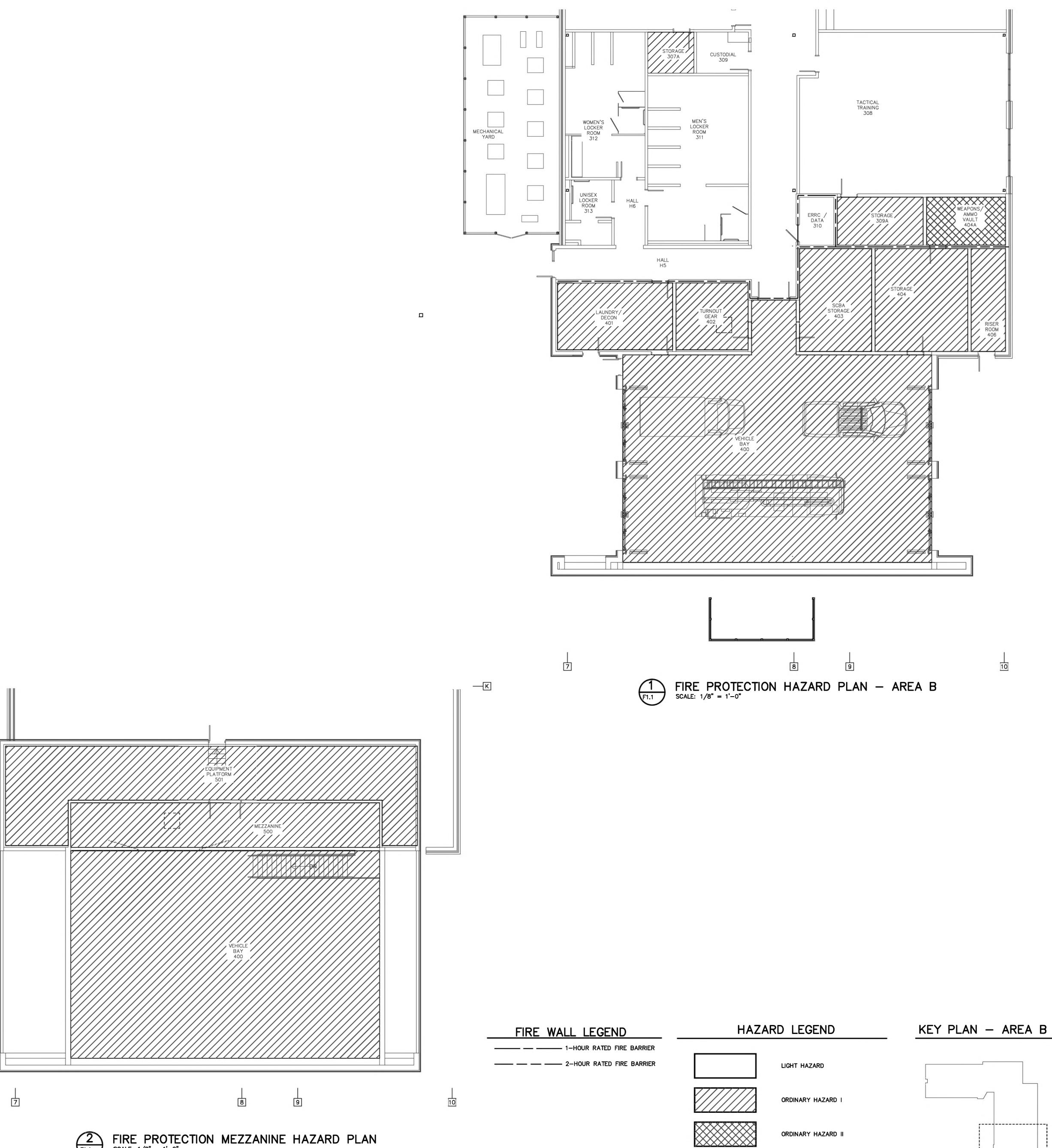




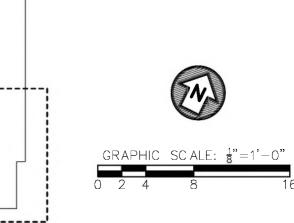






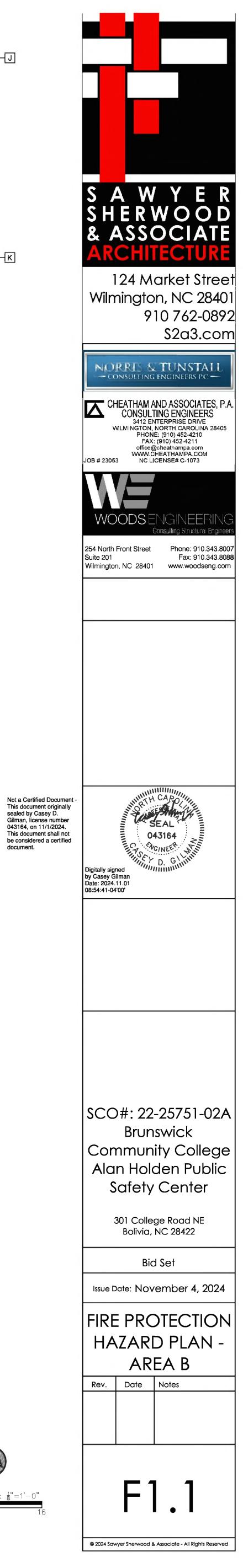


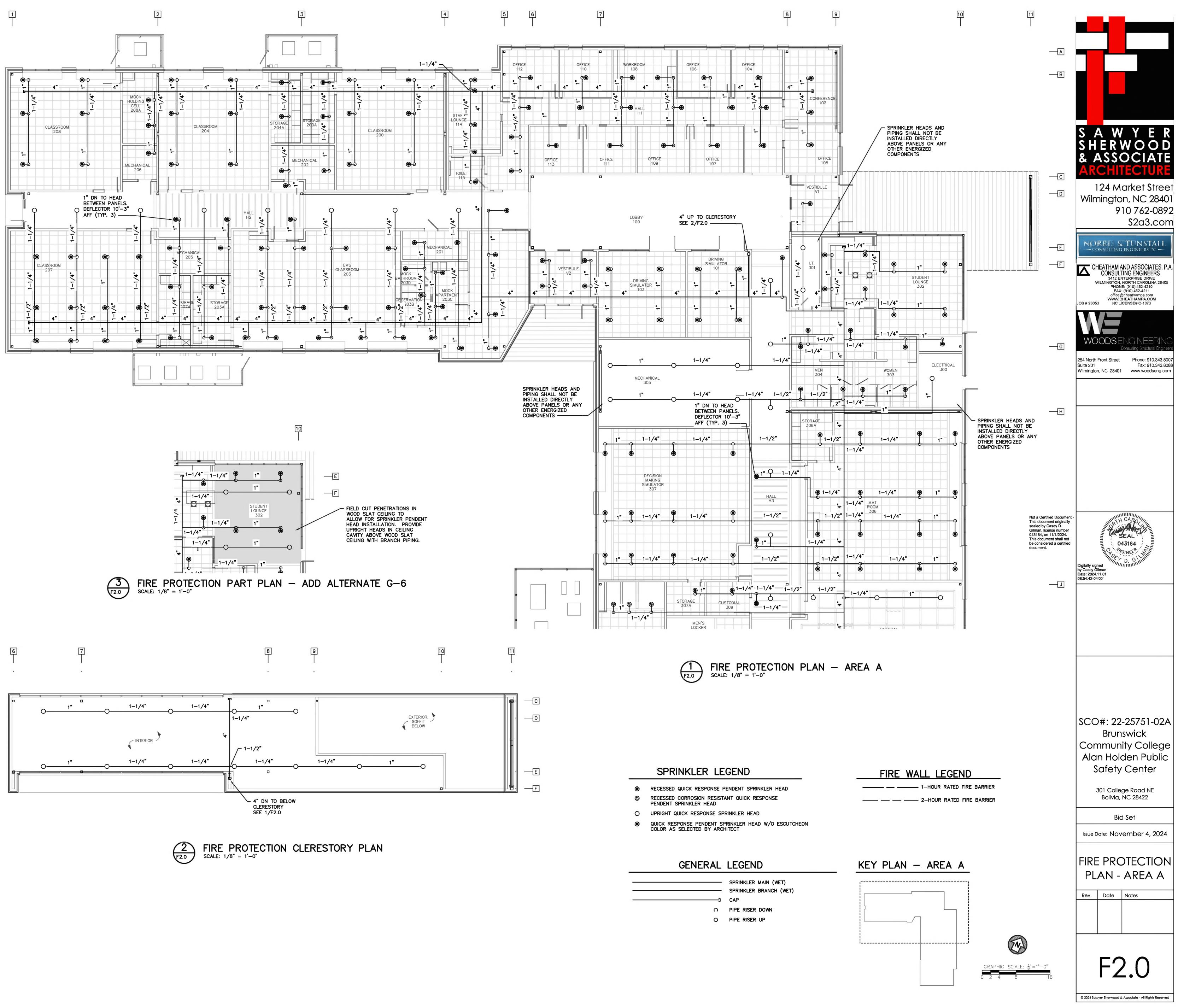
 $\begin{array}{c} \hline 2 \\ F1.1 \end{array}$ FIRE PROTECTION MEZZANINE HAZARD PLAN SCALE: 1/8" = 1'-0"

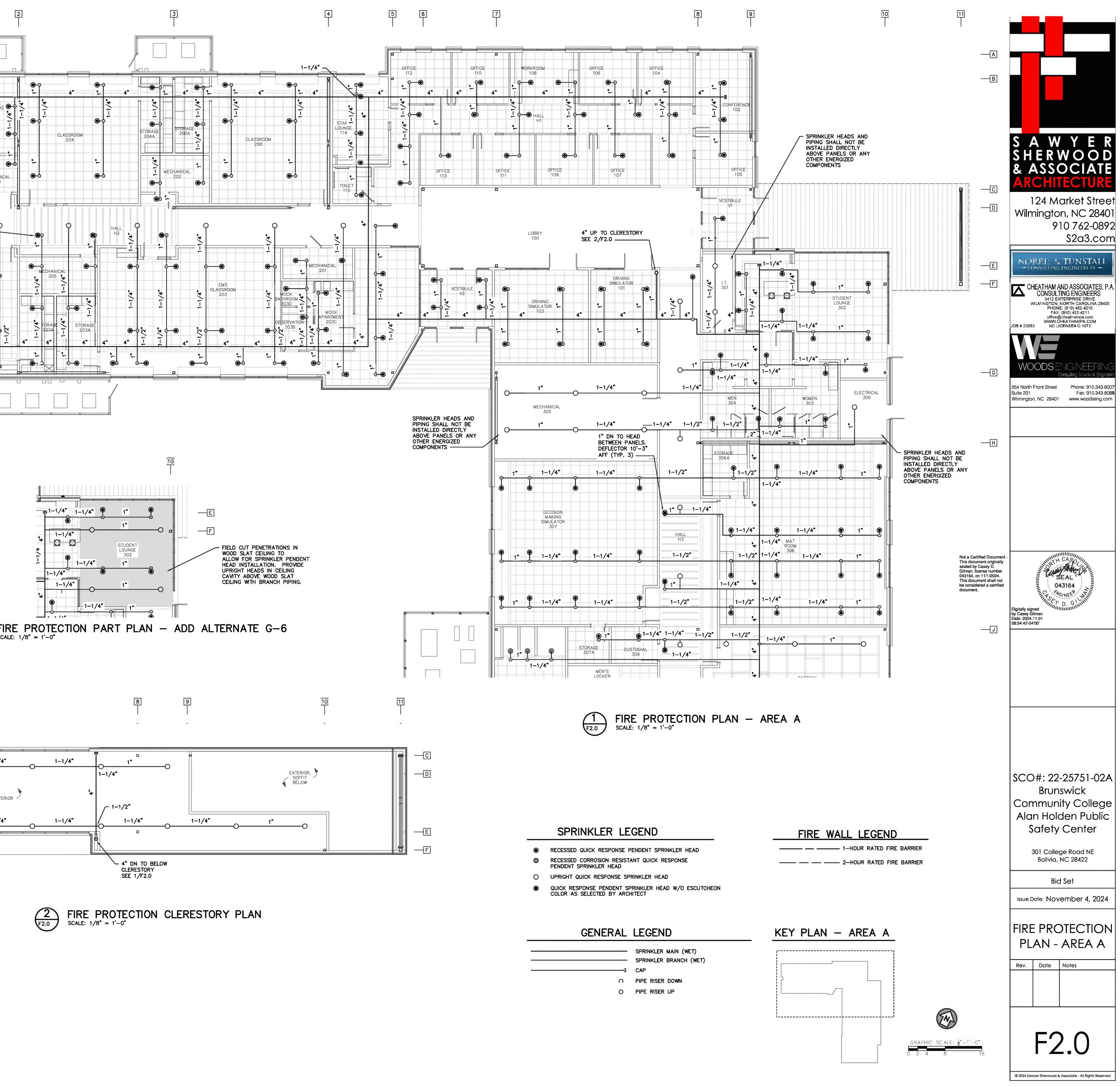


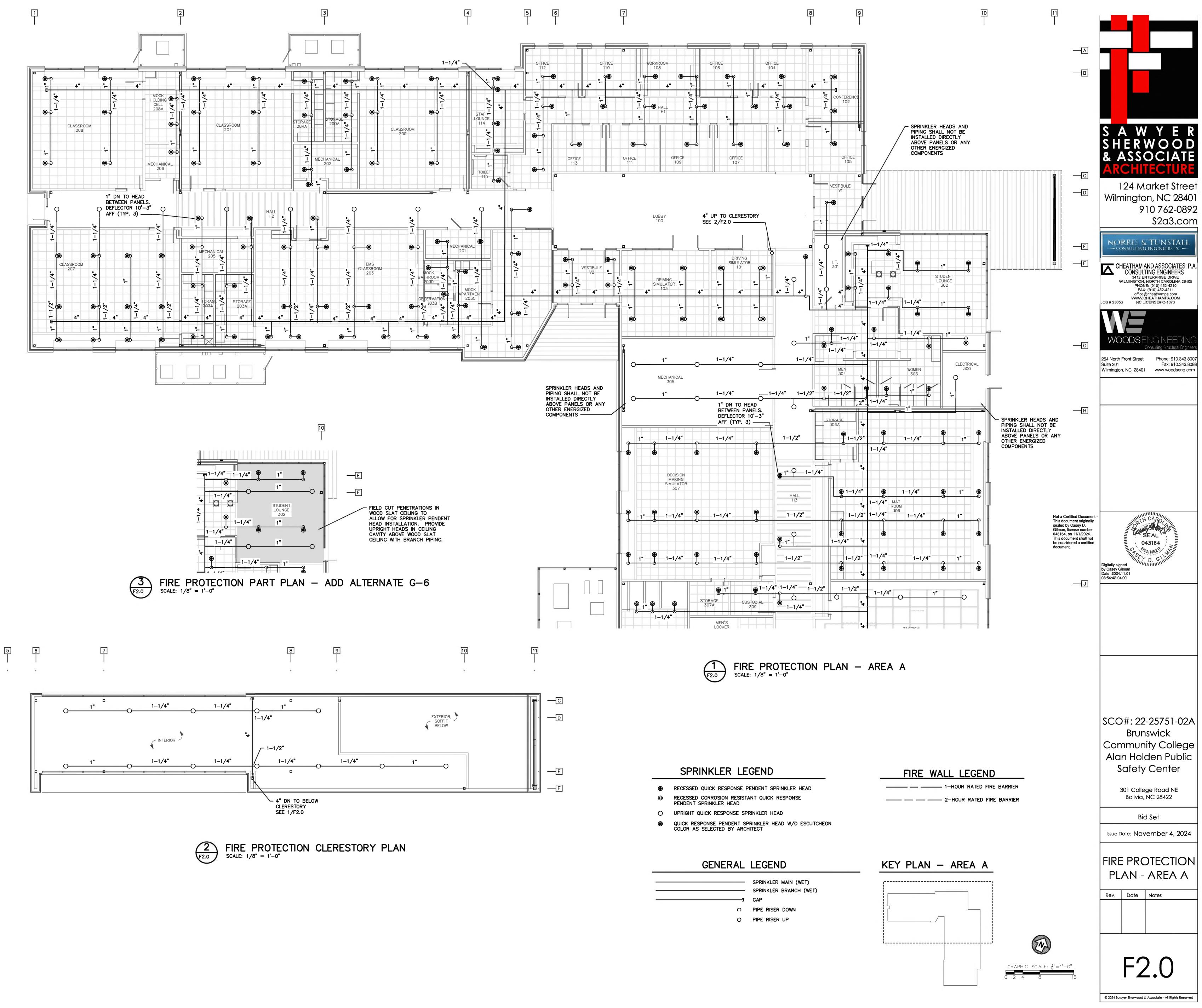
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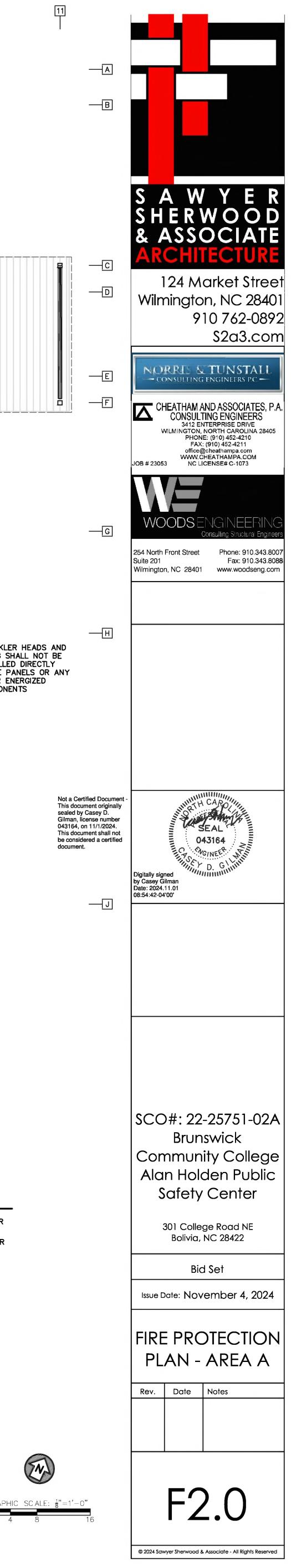
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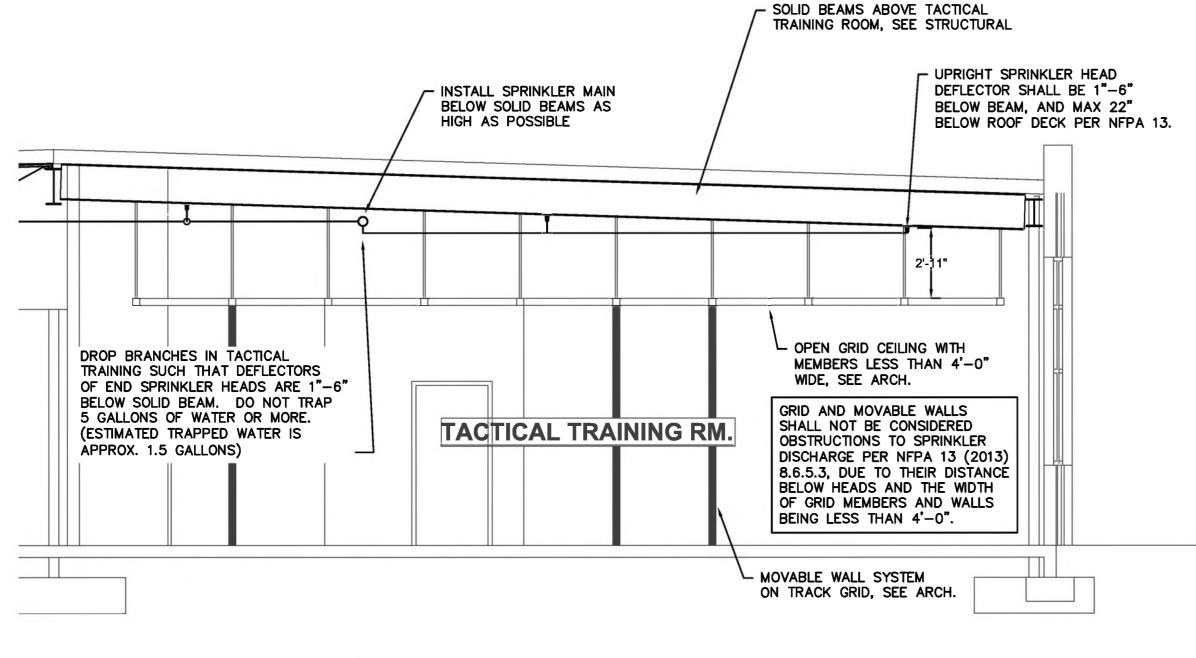






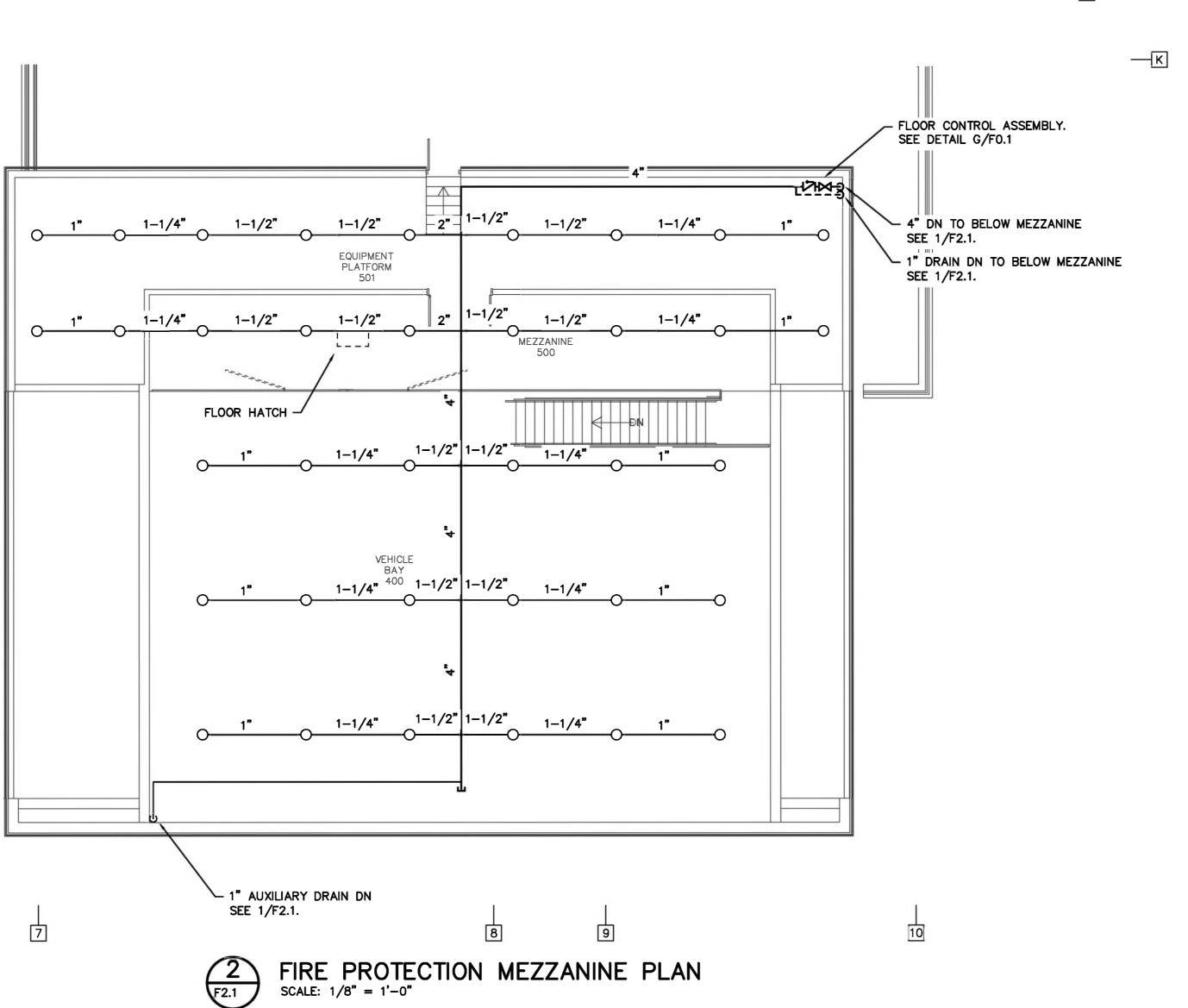




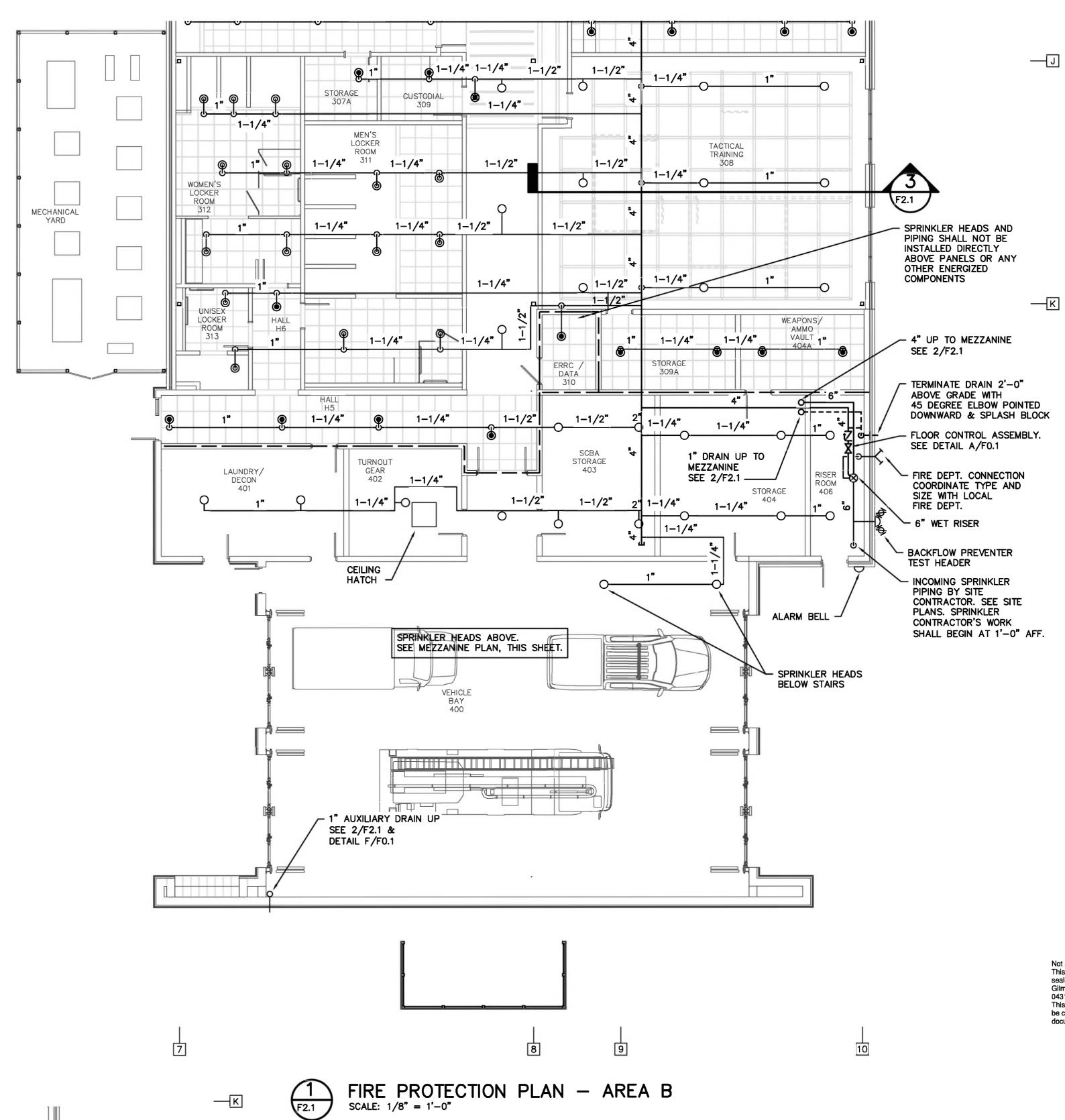




TACTICAL TRAINING SECTION SCALE: 1/4" = 1'-0"







SPRINKLER LEGEND

- RECESSED QUICK RESPONSE PENDENT SPRINKLER HEAD
- RECESSED CORROSION RESISTANT QUICK RESPONSE PENDENT SPRINKLER HEAD
- UPRIGHT QUICK RESPONSE SPRINKLER HEAD 0
- QUICK RESPONSE PENDENT SPRINKLER HEAD W/O ESCUTCHEON COLOR AS SELECTED BY ARCHITECT

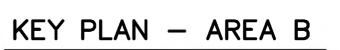
GENERAL LEGEND

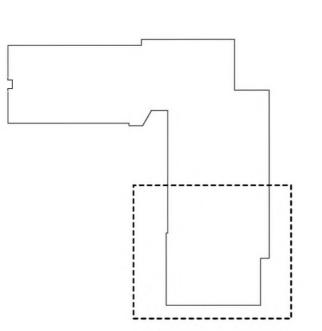
- SPRINKLER MAIN (WET) CAP O PIPE RISER DOWN

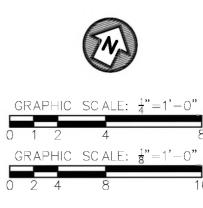
 - O PIPE RISER UP

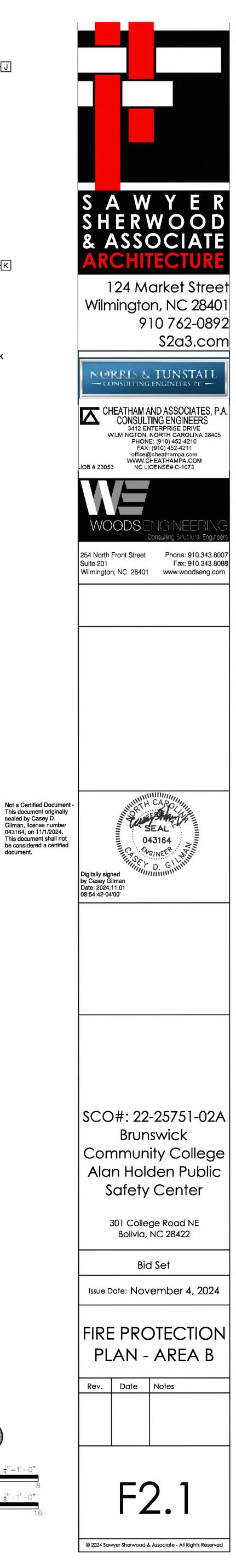
FIRE WALL LEGEND

- ----- 1-HOUR RATED FIRE BARRIER ------ 2-HOUR RATED FIRE BARRIER



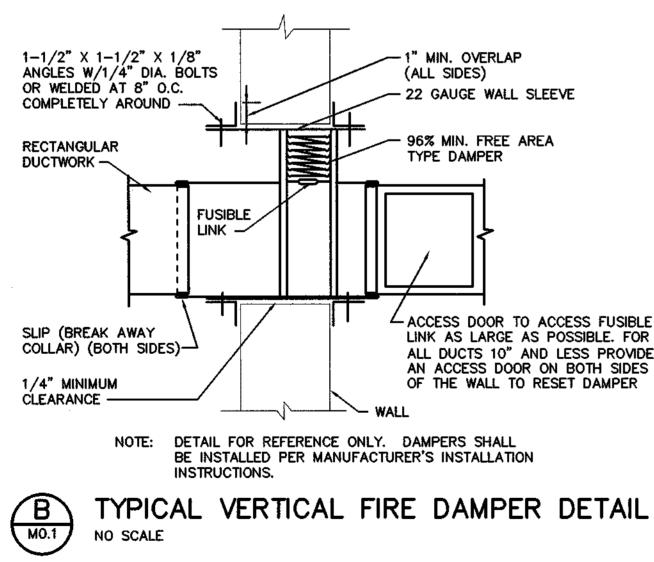


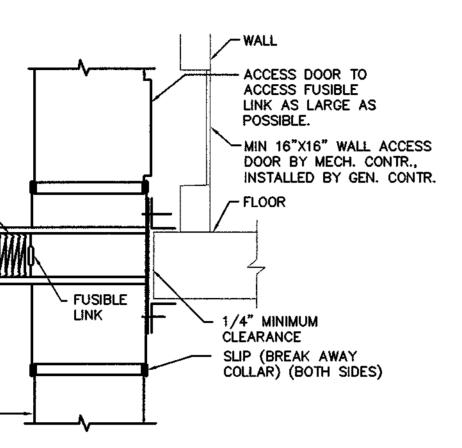


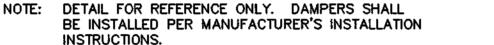


96% MIN. FREE AREA TYPE DAMPER -----FLOOR SLEEVE -----1" MIN. OVERLAP (ALL SIDES) -----1-1/2" × 1-1/2" × 1/8" ANGLES W/1/4" DIA. BOLTS OR WELDED AT 8" O.C. COMPLETELY AROUND -----RECTANGULAR DUCTWORK -

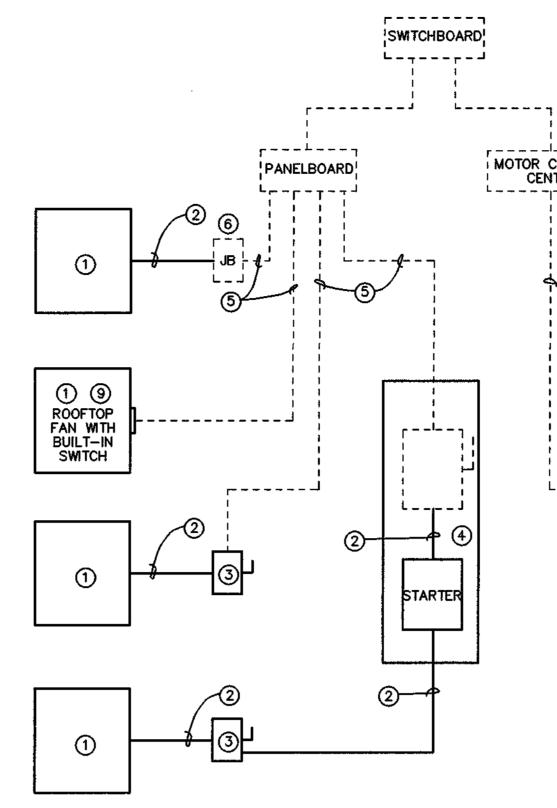








TYPICAL HORIZONTAL FIRE DAMPER DETAIL



MECHANICAL EQUIPMENT CONNECTION NOTES:

(1) MECHANICAL EQUIPMENT.

- 2) CONDUIT AND WIRING BY HVAC, PLUMBING CONTRACTOR OR OTHER TRADES. 3) SAFETY SWITCHES BY HVAC CONTRACTOR. IF AN ADDITIONAL DISCONNECT IS REQUIRED
- BY NEC, IT SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
- (4) A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER. IT SHALL BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR, AND LOCATED ADJACENT TO EQUIPMENT.
- (5) FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES.
- 6 JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT. IF NO STARTER OR DISCONNECT IS SUPPLIED, A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING WILL BE PROVIDED BY MECHANICAL
- CONTRACTOR OR OTHER TRADES. (7) PROJECTS UTILIZING AN MCC, THE STARTER CB, OR VFD IN THE MCC ARE PROVIDED
- \mathbf{O} AND INSTALLED BY THE ELECTRICAL CONTRACTOR. (8) IN ALL CASES THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS
- START UP AND TEST EQUIPMENT.
- (9) IF THE ROOFTOP FAN IS NOT PROVIDED WITH A BUILT-IN SWITCH, THE ELCTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH
- 10 IN A SINGLE PRIME CONTRACT, IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR TO COORDINATE BETWEEN THE ELECTRICAL AND THE OTHER TRADES.



MECHANICAL EQUIPMENT CONNECTION DETAIL NO SCALE

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LEGEND

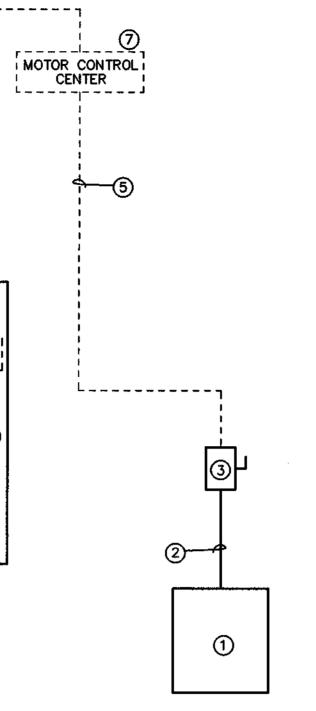
HEATING, COOLING, AND RH SENSOR WITH # INDICATING UNIT CARBON MONOXIDE DETECTOR NITROGEN DIOXIDE MONITOR HEAVY DUTY DISCONNECT SWITCH KEYED NOTE SYMBOL

SMOKE DETECTOR WITH DUCT ACCESS DOOR, ACCESS DOOR BY THE MECH. CONTR., DETECTOR FURNISHED BY THE ELECT. CONTR. AND INSTALLED BY THE MECH. CONTR. PROVIDE CEILING ACCESS DOOR (16"X16" MIN.) WHERE NECESSARY. FIRE DAMPER (1-1/2 HOUR RATED) MOUNTED IN WALL WITH DUCT ACCESS DOOR AND CEILING ACCESS DOOR

(16"X16" MIN.) WHERE NECESSARY. FIRE DAMPER (1-1/2 HOUR RATED) MOUNTED IN FLOOR WITH DUCT AND WALL ACCESS DOORS. (16"X16" MIN.) SUPPLY AIR RETURN AIR OUTSIDE AIR EXHAUST AIR NORMALLY OPEN NORMALLY CLOSED MANUAL DAMPER

MOTOR OPERATED DAMPER ABOVE FINISHED FLOOR FINISHED FLOOR

ABOVE FINISHED GRADE CONCRETE CONTINUATION CONTRACTOR



PING NSATE PIPING CTWORK

URNED DOWN

URNED UP R TURNED DOWN

TURNED UP

HAUST AIR REGISTER

USER

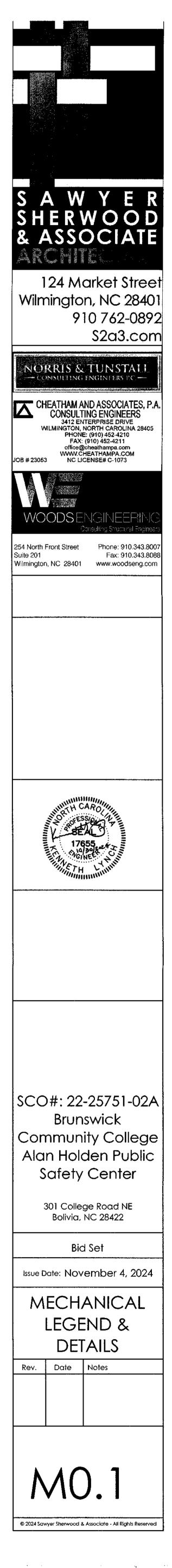
FUSER SYMBOL

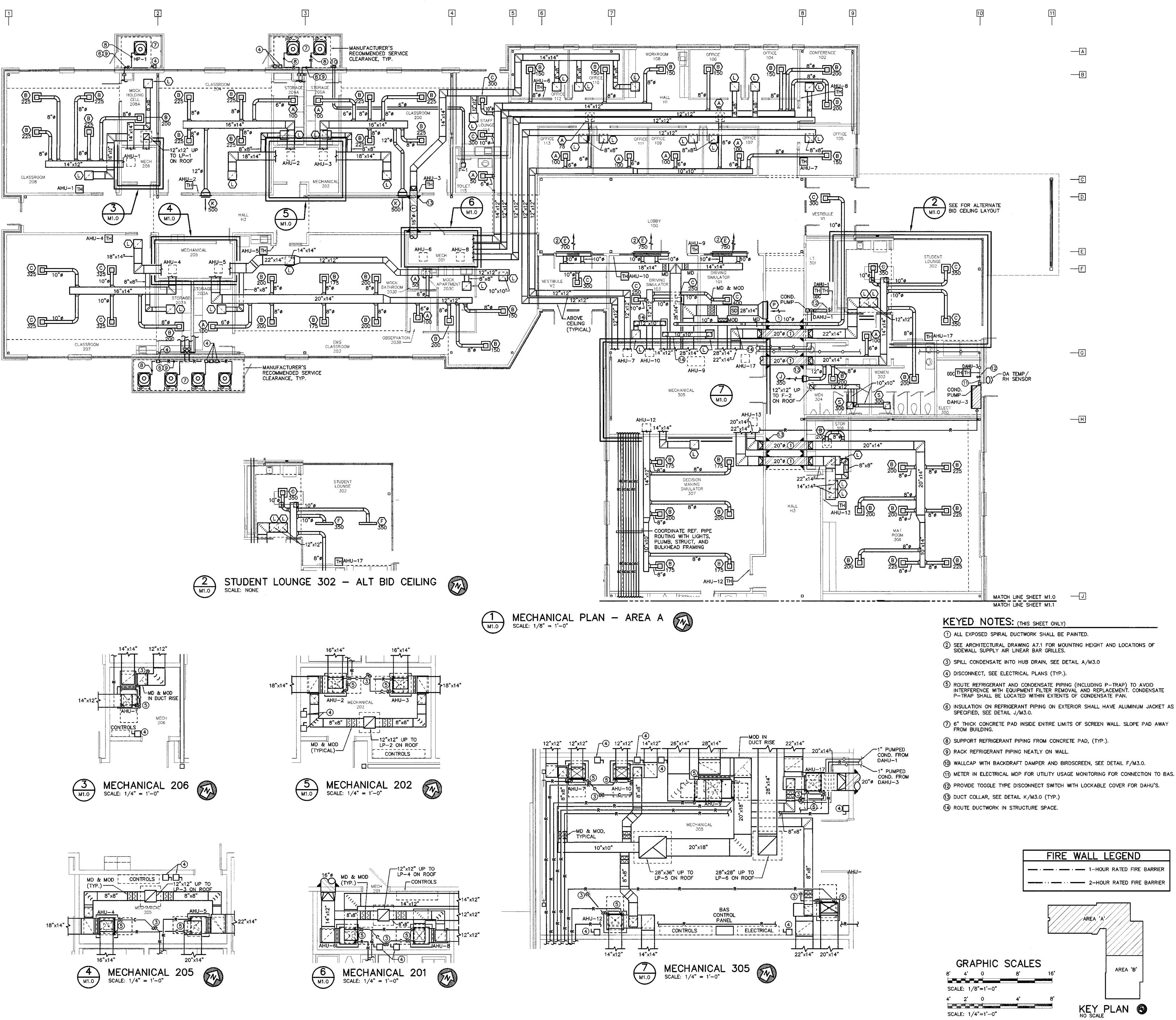
FUSER SYMBOL INDICATING

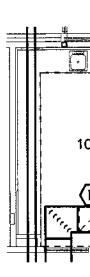
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE COMPLIANCE PER CHAPTER 4 NORTH CAROLINA ENERGY CONSERVATION CODE - SECTIONS C403.2 (MANDATORY), C403.3 ECONOMIZERS (PRESCRIPTIVE) AND C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS. C406.2 MORE EFFICIENT HVAC PERFORMANCE C406.3 REDUCED LIGHTING POWER DENSITY C406.4 ENHANCED LIGHTING CONTROLS C406.5 ON-SITE RENEWABLE ENERGY C406.6 DOAS PROVISION FOR CERTAIN HVAC C406.7 HIGH ENERGY SERVICE WATER HEATING COMPLIANCE PER CHAPTER 4 NORTH CAROLINA ENERGY CONSERVATION CODE - SECTIONS C403.2 (MANDATORY), C403.3 ECONOMIZERS (PRESCRIPTIVE), C403.4 HYDRONIC AND MULTIPLE ZONE (PRESCRIPTIVE) AND C406 ADDITIONAL EFFICIENCY PACKAGE OPTIONS. C406.2 MORE EFFICIENT HVAC PERFORMANCE C406.3 REDUCED LIGHTING POWER DENSITY C406.4 ENHANCED LIGHTING CONTROLS C406.5 ON-SITE RENEWABLE ENERGY C406.6 DOAS PROVISION FOR CERTAIN HVAC C406.7 HIGH ENERGY SERVICE WATER HEATING COMPLIANCE PER CHAPTER 4 NORTH CAROLINA ENERGY CONSERVATION CODE - SECTIONS C402.5, C403.2, C404, C405.2, C405.3, C405.5, C405.6 AND C407 TOTAL BUILDING PERFORMANCE. THE BUILDING ENERGY COST SHALL BE EQUAL TO OR LESS THAT 85 PERCENT OF THE STANDARD REFERENCE DESIGN BUILDING. COMPLIANCE PER ANSI/ASHRAE/IESNA 90.1-2013. COMPLIANCE PER NORTH CAROLINA SPECIFIC COMCHECK OR ASHRAE 90.1-2013 COMCHECK. CLIMATE ZONE 3A EXTERIOR DESIGN CONDITIONS winter dry bulb: 24.7F summer dry bulb: 91.2F D8/77F WB INTERIOR DESIGN CONDITIONS winter dry bulb: 70°F summer dry bulb: 75°F relative humidity: 55% BUILDING HEATING LOAD: BLOCK LOAD = 1881.7 MBH BUILDING COOLING LOAD: BLOCK LOAD = 66.9 TONS MECHANICAL SPACING CONDITIONING SYSTEM Unitary: description of unit: heating efficiency: cooling efficiency: heat output of unit: > SEE SCHEDULES ON M4.0 cooling output of unit: Boiler: N/A total boiler output. If oversized, state reason. Chiller: N/A total chiller capacity. If oversized, state reason. LIST EQUIPMENT EFFICIENCIES: SEE SCHEDULES ON THIS SHEET EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS) motor horsepower: number of phases: minimum efficiency: SEE SCHEDULES ON SHEET M4.0 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 North Carolina Energy Conservation Code. SIGNED: NAME: Kenneth Lynch. P.E. TITLE: Professional Engineer

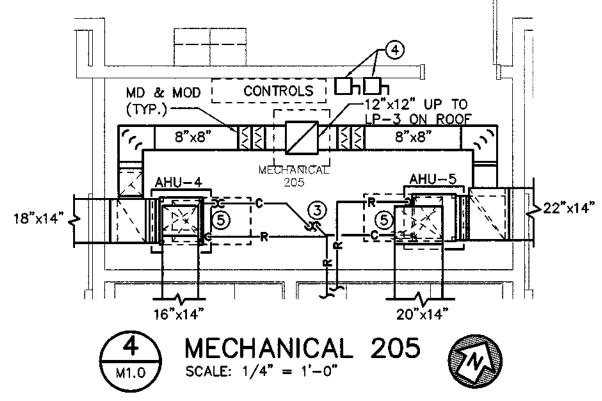
GENERAL NOTES:

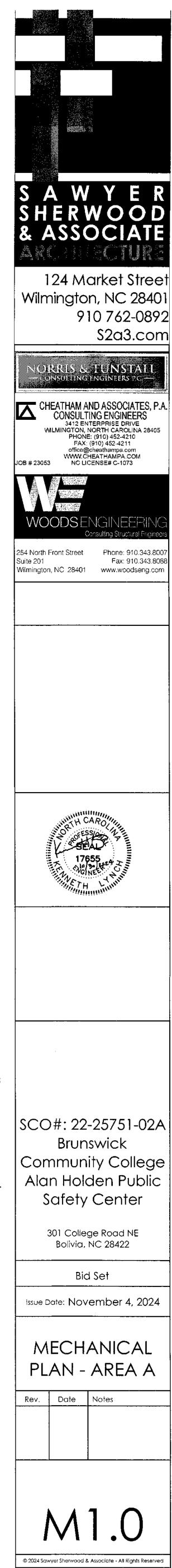
- 1. HVAC CONTRACTOR SHALL FIELD VERIFY ALL RELEVANT DIMENSIONS, CLEARANCES, LOCATIONS AND ELEVATIONS PRIOR TO ORDERING, FABRICATION, AND INSTALLATION OF HIS WORK. DISCREPANCIES OR INTERFERENCE'S SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AS SOON AS POSSIBLE.
- 2. THE DRAWINGS DIAGRAMMATICALLY INDICATE THE GENERAL LOCATION OF DUCTS, PIPING AND EQUIPMENT AND DO NOT SHOW ALL SUPPORTS. OFFSETS, FITTINGS, BOLTS, CONNECTIONS, ETC. REQUIRED FOR A COMPLETE SYSTEM. WHILE THE DRAWINGS ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE, IF IT IS FOUND NECESSARY TO CHANGE THE LOCATION OF ANY WORK TO ACCOMMODATE THE CONDITIONS AT THE BUILDING, SUCH CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER, AND AS DIRECTED BY THE ENGINEER.
- 3. CONTRACTOR SHALL PROTECT EQUIPMENT AND SYSTEMS DURING CONSTRUCTION FROM MOISTURE, CONSTRUCTION DEBRIS, DUST AND OTHER FOREIGN MATERIALS BOTH BEFORE AND AFTER INSTALLATION. SELF-ADHESIVE 3-MIL POLYETHYLENE FILM SHALL BE INSTALLED OVER EQUIPMENT, CEILING EXHAUST FANS, DUCTLESS SPLIT SYSTEMS, AHUS, VRF AHUS, OPENINGS IN VAV BOXES, ETC AND ALL OPEN ENDS OF DUCTWORK.
- 4. HVAC CONTRACTOR / CONTROLS CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR PROVISIONS OF POWER TO DDC CONTROL SYSTEM CONTROL PANELS, CONTROLLERS, ETC.. NOT SHOWN ON M OR E DRAWINGS. ELECTRICAL CONTRACTOR WILL PROVIDE POWER TO GENERAL POINTS, JUNCTION BOXES, ETC., AND POWER WIRING FROM THOSE POINTS TO EQUIPMENT SHALL BE BY THE HVAC CONTRACTOR/CONTROL CONTRACTOR.
- 5. PIPING, DUCTWORK, ETC., SHALL NOT BE SUPPORTED FROM BAR JOIST BRIDGING OR ROOF DECK. EQUIPMENT SUPPORTED BY BAR JOISTS SHALL HAVE SUPPORTS ATTACHED AS CLOSE AS POSSIBLE TO BAR JOIST PANEL POINTS. HVAC CONTRACTOR SHALL SUPPLY ANY AND ALL STRUCTURAL MEMBERS NECESSARY TO SUPPORT WORK BETWEEN BAR JOISTS, BEAMS, ETC. REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS AND SUPPORTS TO STRUCTURE.
- 6. ALL PIPING PENETRATIONS THROUGH RATED FLOORS AND WALLS SHALL BE FIRE STOPPED USING PIPE PENETRATIONS DETAILS AS SPECIFIED. ALL PIPING PENETRATIONS THROUGH NON RATED FLOORS AND WALLS SHALL BE PROTECTED USING DETAILS SHOWN ON SHEET M-001. ALL DUCT PENETRATIONS THRU NON RATED FLOORS AND WALLS SHALL BE PROTECTED USING DETAILS SHOWN ON SHEET MO.1.
- 7. PROVIDE A MINIMUM OF 7'-0" CLEARANCE ABOVE FINISHED FLOOR FOR ALL DUCTWORK, PIPING AND EQUIPMENT THROUGHOUT ACCESS ROUTES AND CLEARANCE AREAS IN MECHANICAL ROOMS AND PROVIDE SERVICE AREAS AND CLEARANCES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 8. ALL DUCT TEMPERATURE SENSORS, HUMIDITY SENSORS, ETC. SHALL BE INSTALLED IN AN EASILY ACCESSIBLE AND SERVICEABLE LOCATION.
- 9. IN AREAS WITH GYPBOARD CEILINGS, HVAC CONTRACTOR SHALL INSTALL EQUIPMENT, DUCTWORK AND PIPES PRIOR TO GYPBOARD INSTALLATION.
- 10. ALL SUPPLY AND RETURN CONNECTIONS TO AHU SHALL BE MADE WITH A FLEXIBLE DUCT CONNECTION.
- 11. ALL DUCT JOINTS SHALL BE SEALED AS SPECIFIED.
- 12. ALL DUCTWORK DIMENSIONS ON THE DRAWINGS ARE FREE INSIDE DIMENSIONS.
- 13. RETURN AIR DUCTWORK SHALL BE INSTALLED IN SUCH A MANNER THAT DUCT MOUNTED SMOKE DETECTORS ARE NO MORE THAN 24" ABOVE LAY-IN CEILING TILES.
- 14. COORDINATE MECHANICAL DUCTWORK AND PIPING LOCATIONS TO AVOID ALL ELECTRICAL PANELS WITH THE ELECTRICAL CONTRACTOR.
- 15. AIR CONDITIONING CONDENSATE LINES ARE MINIMAL SIZE. DO NOT INSTALL SMALLER THAN ACTUAL COIL CONNECTION SIZE. 16. ALL THERMOSTATS AND SWITCHES FOR MECHANICAL SYSTEMS SHALL BE MOUNTED 44"
- AFF. BOTTOM OF CONTROL PANELS SHALL BE MOUNTED 44" AFF MAXIMUM.
- 17. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR FINAL LOCATIONS OF REGISTERS, GRILLES, AND DIFFUSERS WITHIN CEILING GRID.
- 18. AS SPECIFIED IN DIVISION 23 SPECIFICATION SECTIONS TO COMPLY WITH SECTION C408 OF THE NORTH CAROLINA ENERGY CONSERVATION CODE, THE HVAC CONTRACTOR SHALL PROVIDE FOR COMMISSIONING OF ALL EQUIPMENT THAT IS PART OF THE DIVISION 23 WORK:
- a. DOCUMENTATION AS REQUIRED FOR OPERATION AND MAINTENANCE MANUALS, SEE SECTION 230500 BASIC HVAC REQUIREMENTS AND SPECIFICS IN OTHER SECTIONS.
- b. CERTIFIED TESTING AND BALANCING OF SYSTEM AIRFLOWS AS SPECIFIED IN SECTION 230593 TESTING, ADJUSTING AND BALANCING FOR HVAC.
- c. DEMONSTRATE FUNCTIONAL OPERATION OF ALL HVAC SYSTEMS AND EQUIPMENT TO THE ENGINEERING TEAM INCLUDING OBSERVATIONS OF THE INSTALLATION.
- d. DEMONSTRATE FUNCTIONALITY OF THE DDC BAS SYSTEM TO THE ENGINEERING TEAM INCLUDING SEQUENCES OF OPERATION AND DDC GRAPHICS FOR ALL HVAC SYSTEMS AND EQUIPMENT.

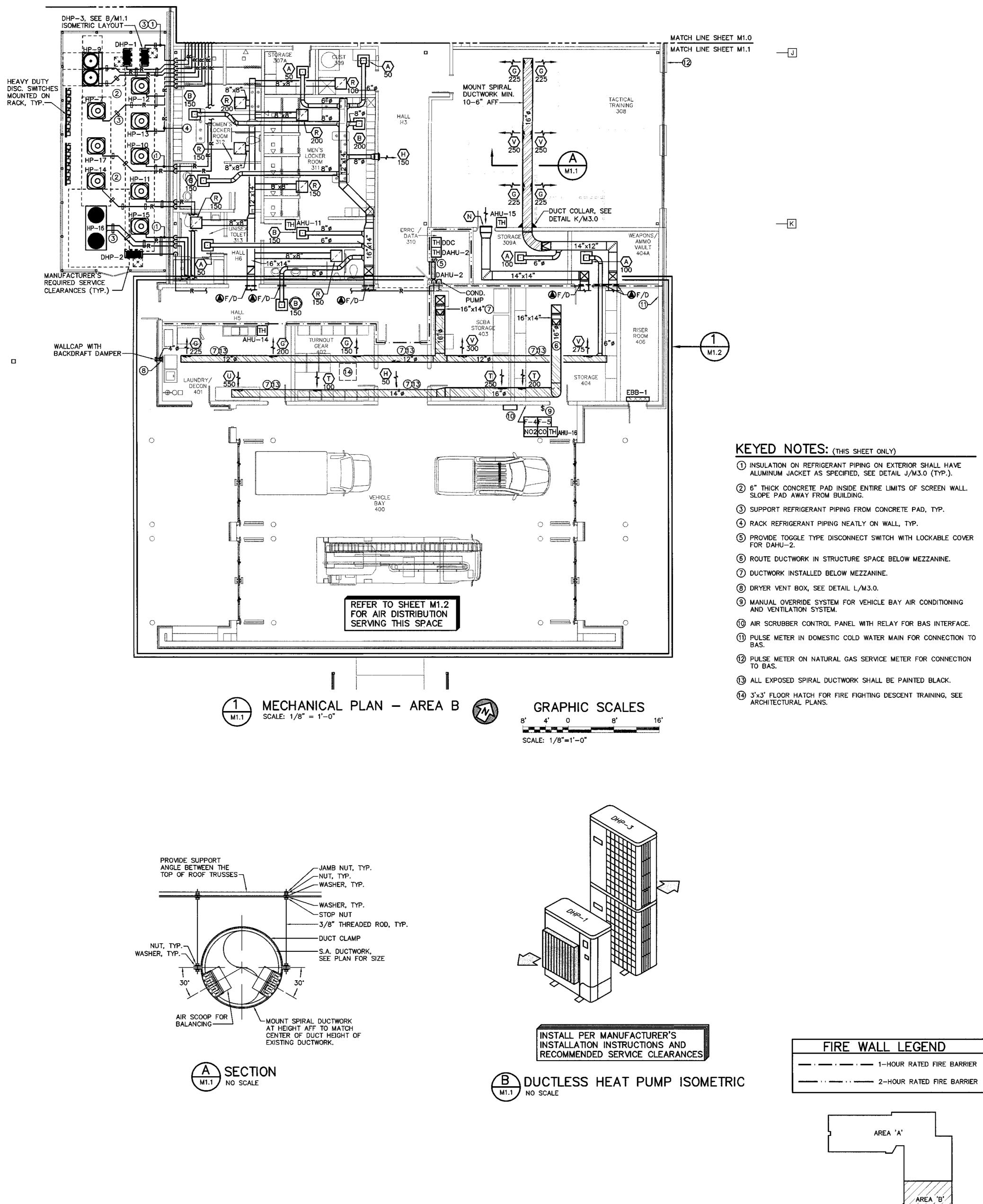


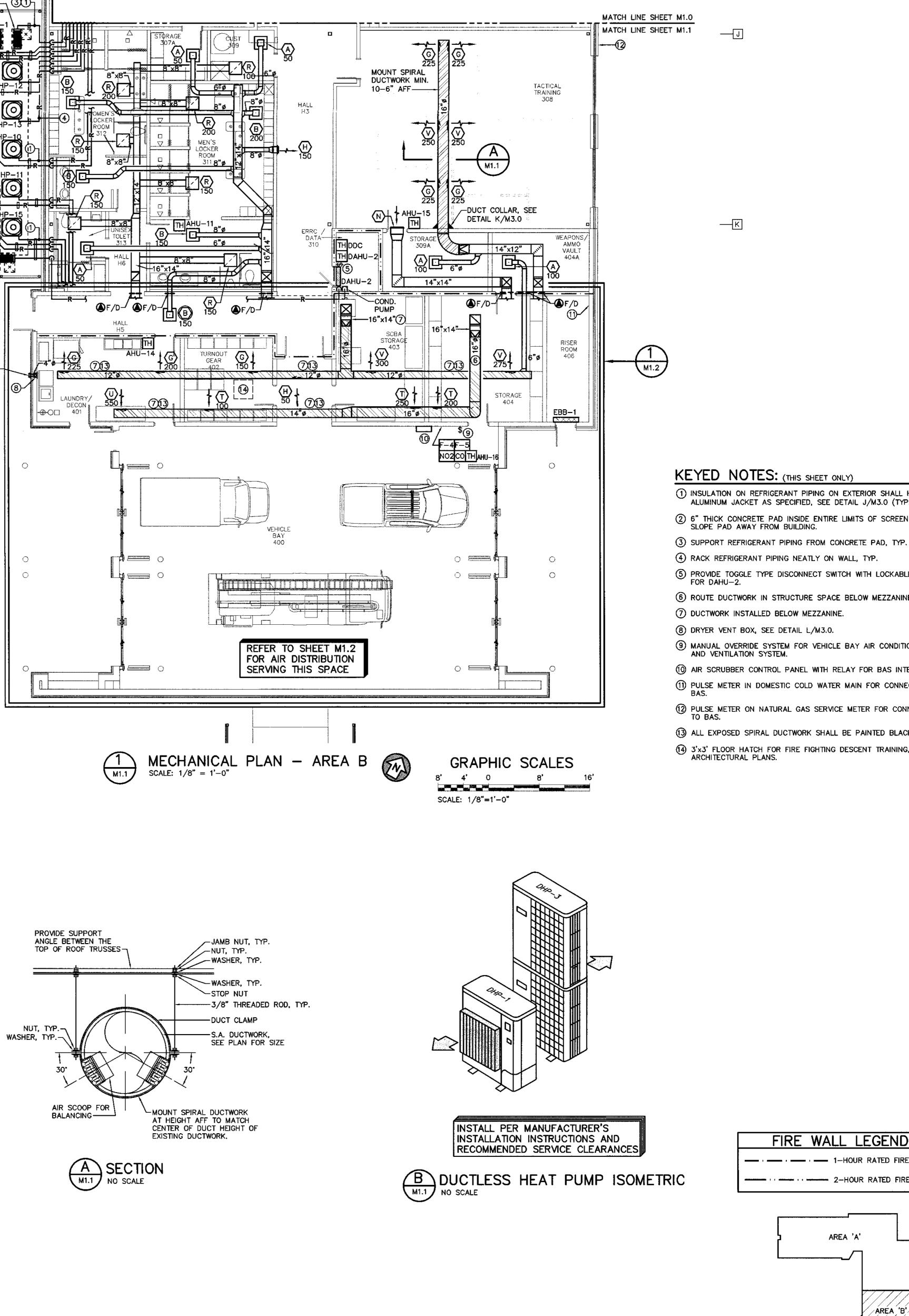


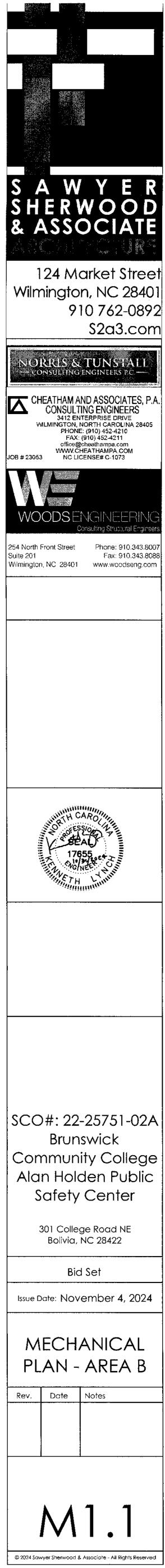




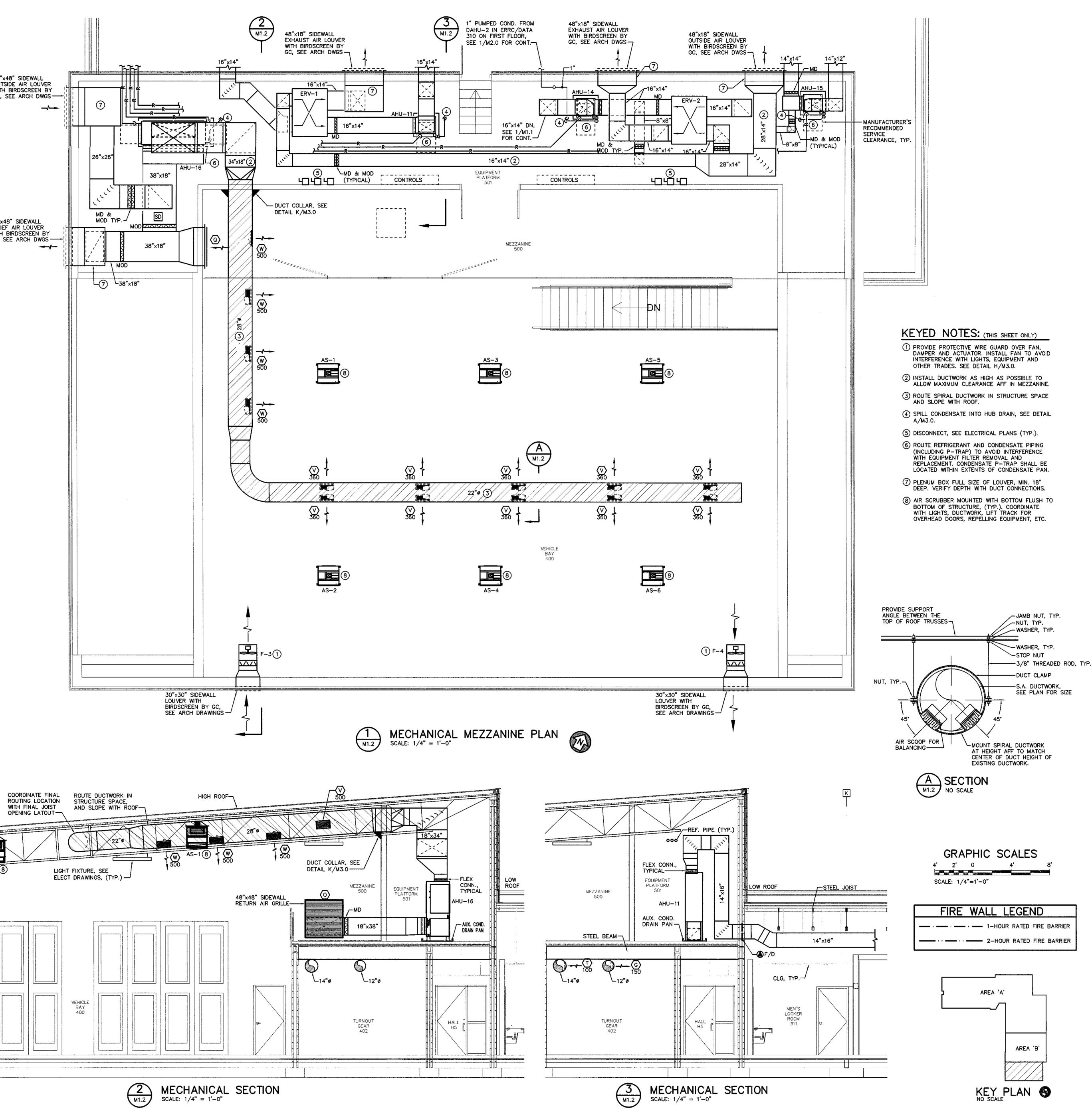


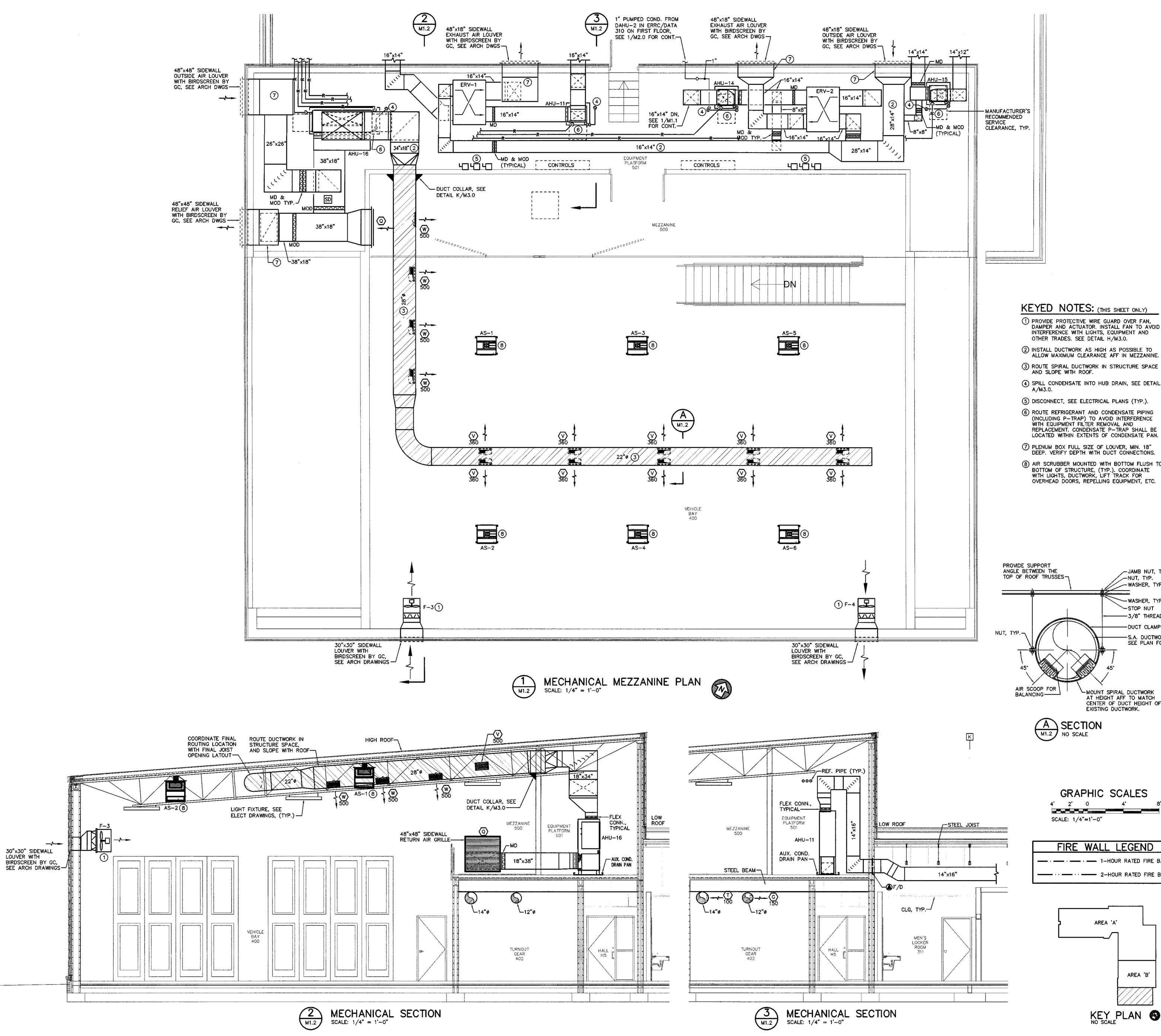


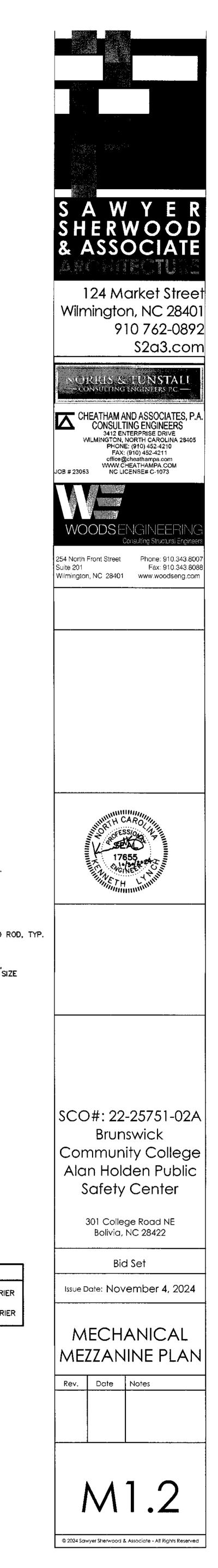




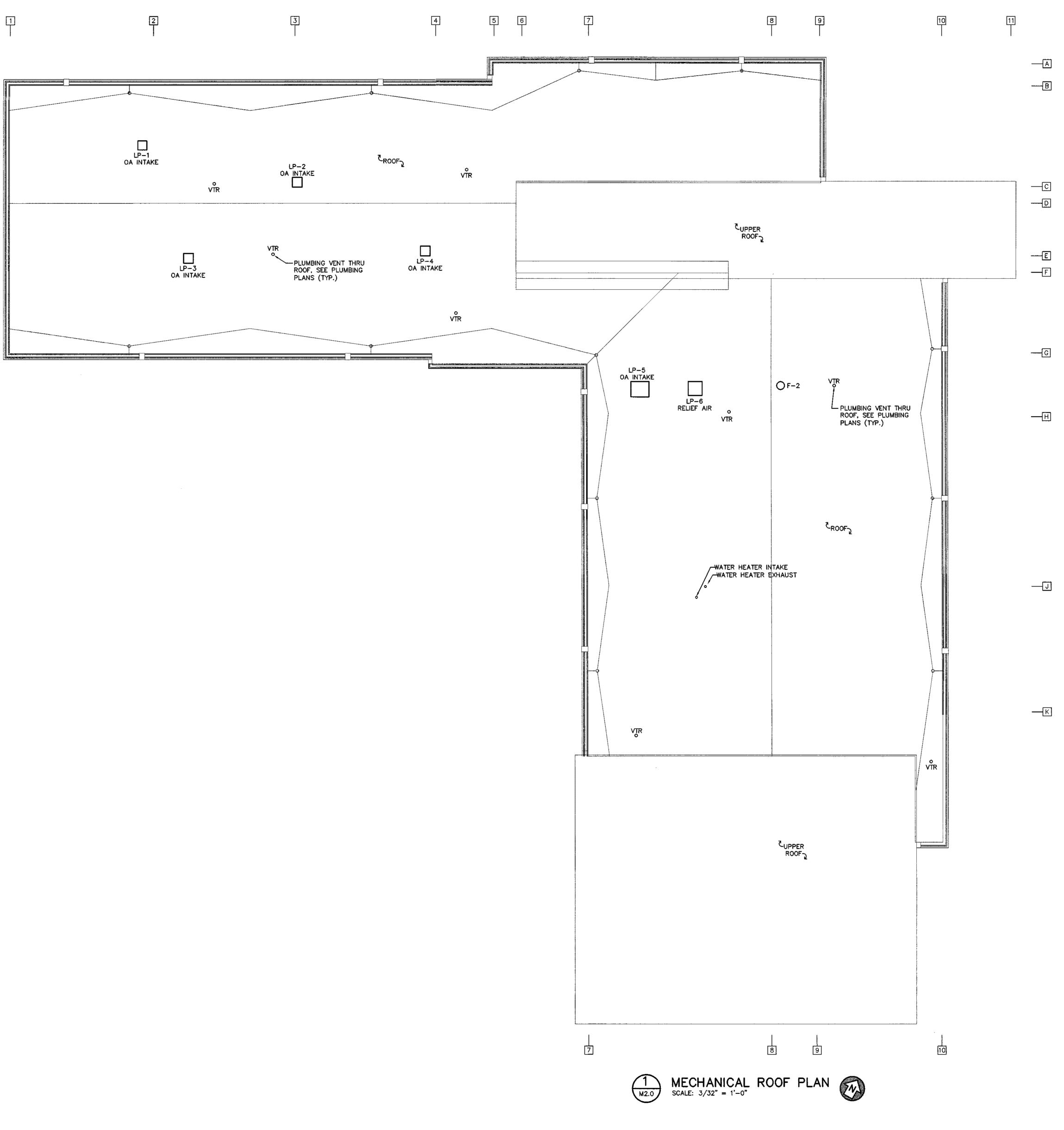
KEY PLAN 🚱





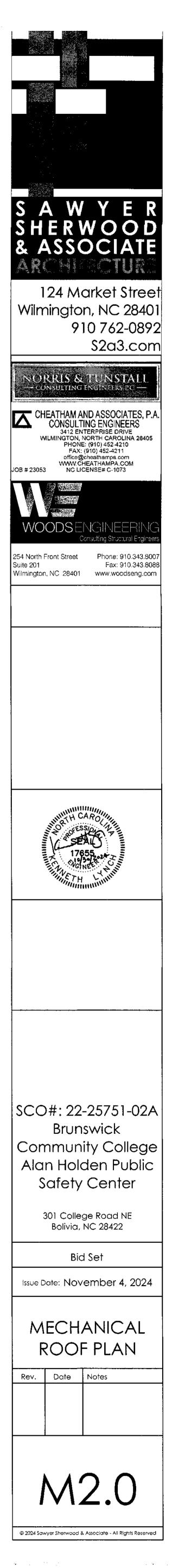


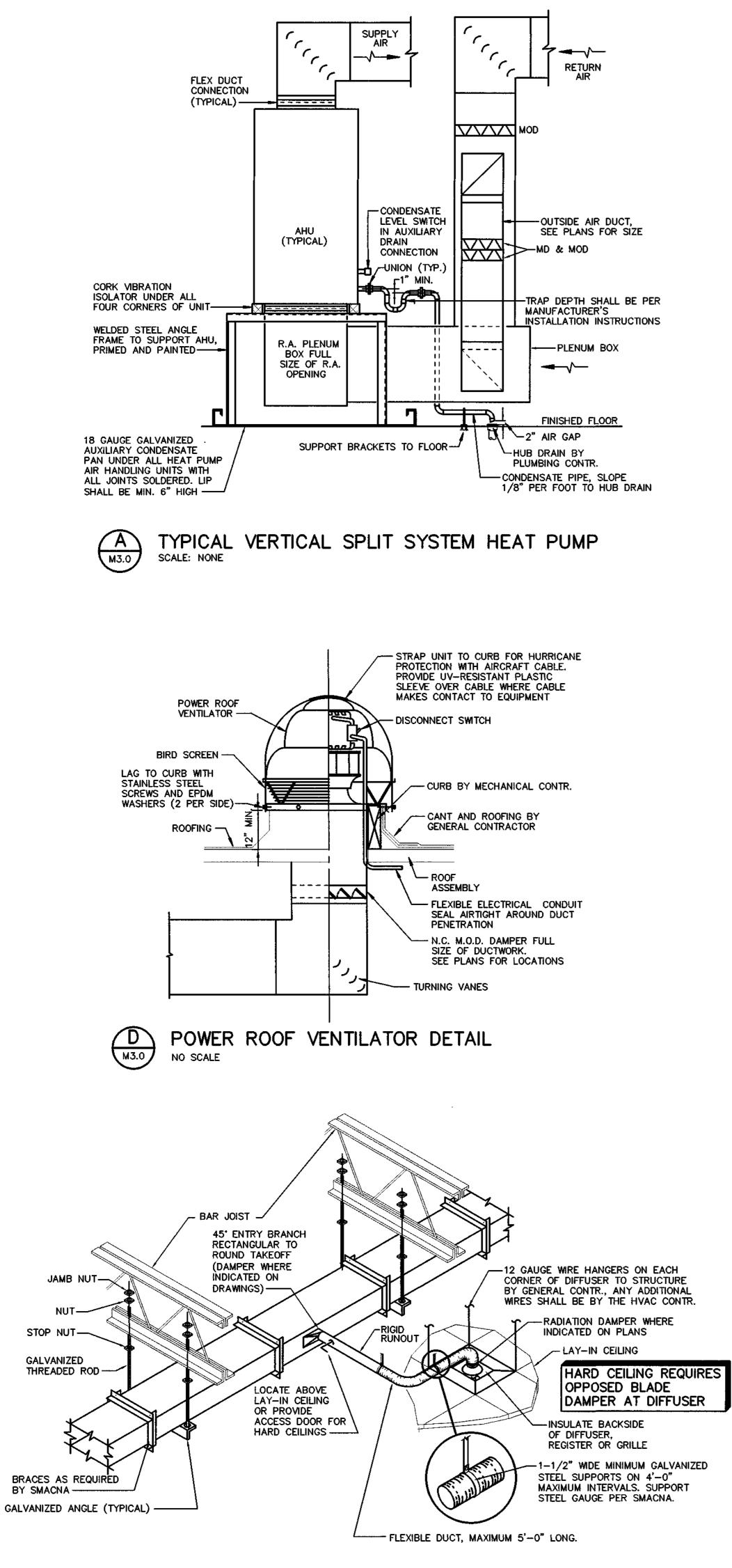
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GRAPHIC SCALES 10' 0 10 SCALE: 3/32"=1'-0" 10**'**

20'

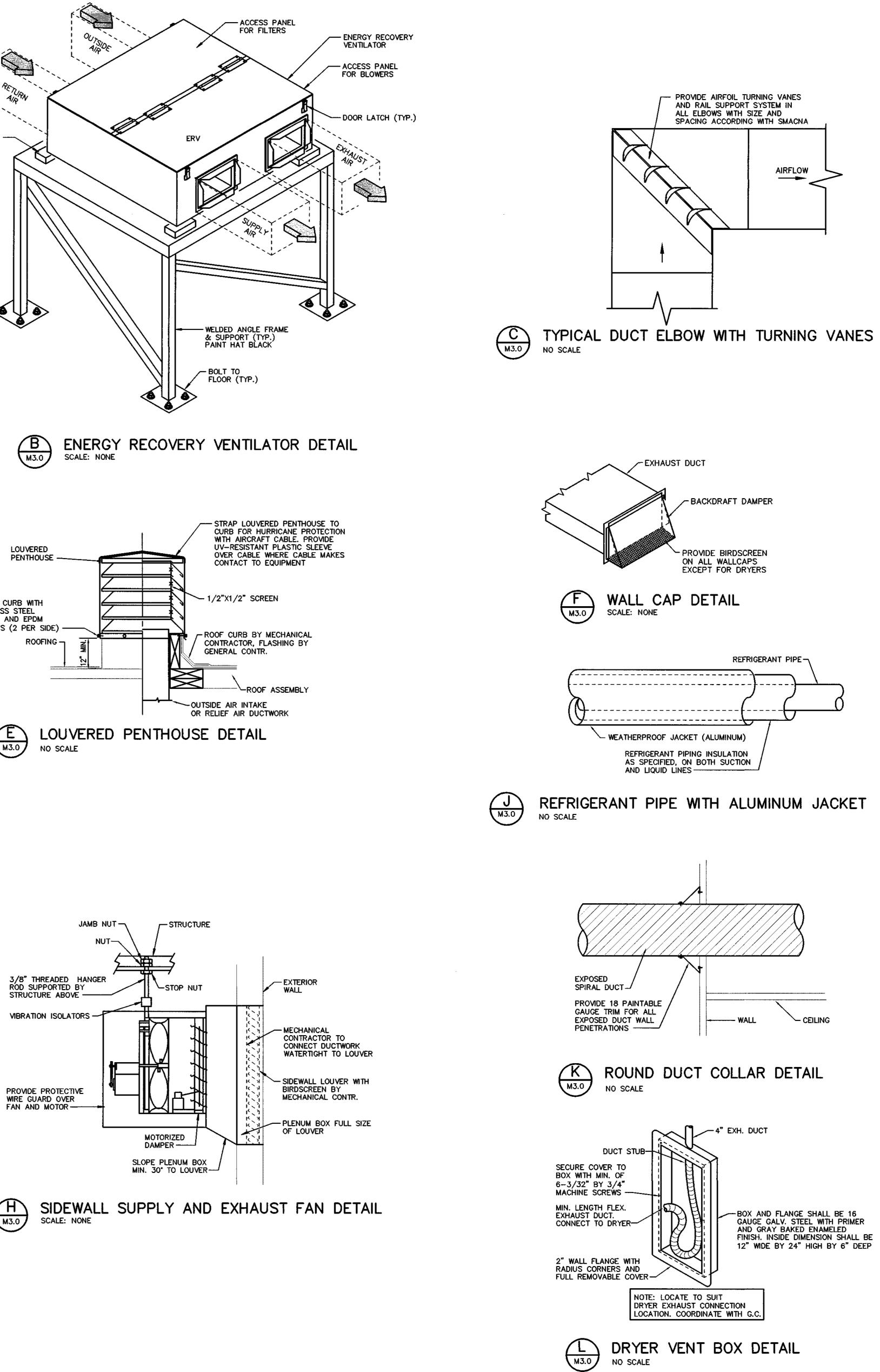


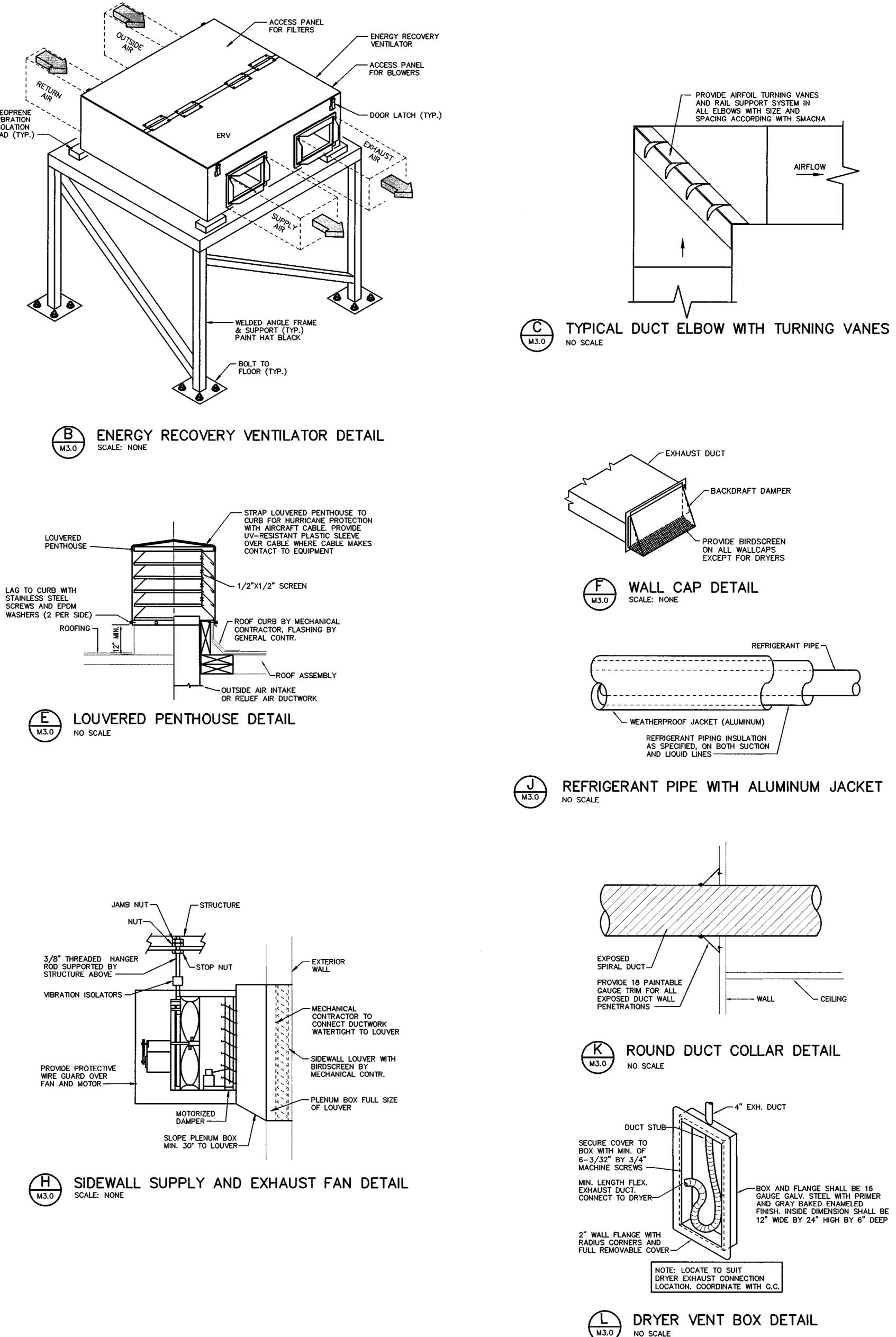


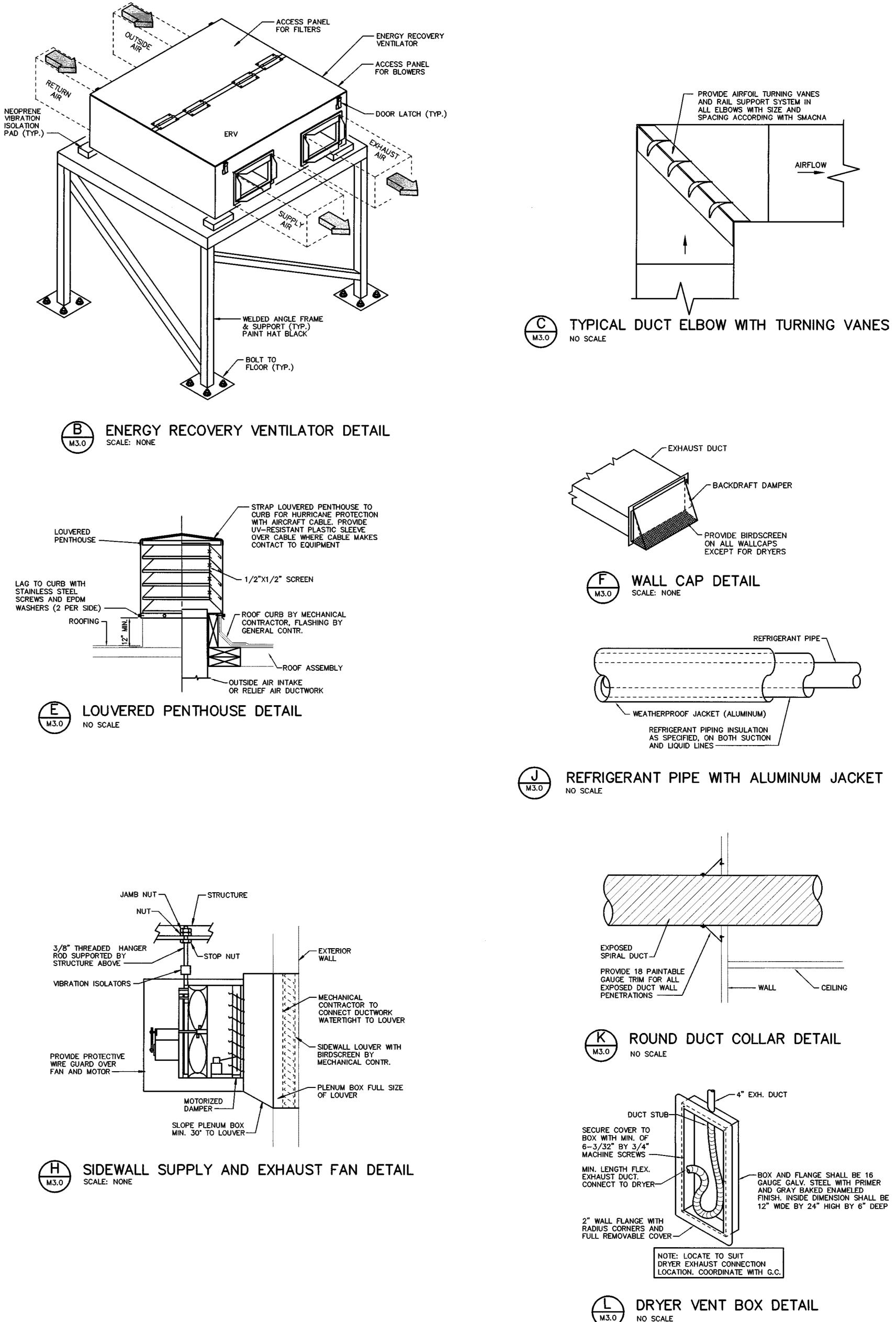
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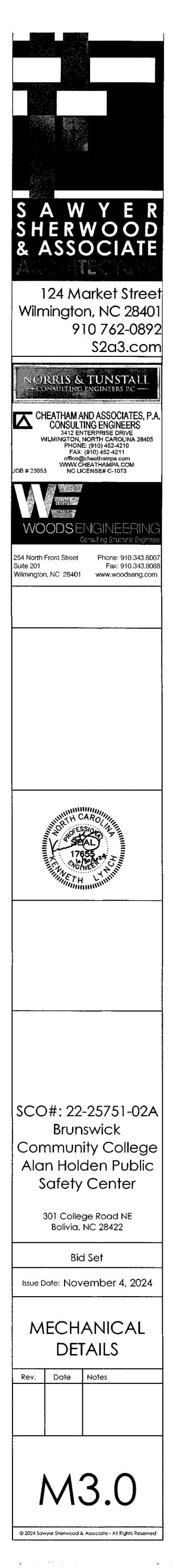
TYPICAL SUPPLY DUCT DETAIL SCALE: NONE











	OUTSIDE AIR V	ENT	ILATI	ON CA	LCULATI	ONS	
UNIT	AREA SERVED	AREA FT ²	PEOPLE	AREA VENT RATE (CFM/FT2)	OCC. VENT RATE (CFM/OCC.)	MINIMUM OUTSIDE AIR (CFM)	OUTSIDE AIR PROVIDED (CFM)
AHU-1	CLASSROOM/MOCK HOLD	857	18	55.0	135.0	190	200
AHU-2	CLASSROOM 02/CORRIDOR	1368	18	79.0	135.0	214	225
AHU-3	CLASSROOM 03/CORRIDOR	1378	18	84.0	135.0	219	225
AHU-4	CLASSROOM 04/STO	1098	18	66.0	135.0	201	200
AHU-5	EMS CLASSROOM & SUPPORT	1900	19	118.0	130.0	248	250
AHU-6	OFFICES/BREAK ROOM/WORK ROOM	758	11	77.0	55.0	132	200
AHU-7	INNER OFFICES/CORRIDOR	1270	10	74.0	50.0	124	125
AHU-8	OFFICES & CONFERENCE ROOM	494	12	30.0	60.0	90	100
AHU-9	LOBBY CORRIDOR/VEST	2599	26	152.0	130.0	282	300
AHU-10	DRIVER SIMULATORS	7 11	12	42.0	90.0	132	150
AHU-11	LOCKER ROOMS/HALLS	2469	6	75.0	0	75	200
AHU-12	DECISION MAKING SIMULATOR	1286	6	77.0	45.0	122	150
AHU-13	MATT ROOM & STORAGE	1536	38	94.0	285.0	379	400
AHU-14	SCBA/TURNOUT GEAR/LAUNDRY	1380	2	126.0	40.0	166	175
AHU-15	TACTICAL TRAINING ISTO.	1400	12	84.0	90.0	174	200
AHU-16	APPARATUS BAY	5450	6	312.0	45.0	357	400
AHU-17	STUDENT LOUNGE/TOILETS	1865	21	74.0	105.0	179	200

					DUCTLE	SS S	PLI	T SYSTE	M HEA	T PUMP	UNIT	SCH	HEDULE		
	AIF	R HANDLING	UNIT S	SECTION			OUTDOOR HEAT PUMP SECTION								
	AIR C	QUANTITY	EXT. S.P.	ELE	CTRICAL	ELECTRICAL		COOLING			REMARKS				
SYMBOL	TOTAL CFM	OUTSIDE CFM	э.г. "H20 ①	FAN FLA	VOLTAGE & PHASE	SYMBOL	МСА	RECOMMENDED BREAKER SIZE	VOLTAGE & PHASE	CAPACITY BTUH 2	CAPACITY BTUH 3	SEER2			
DAHU-1	700	-	-	1.0	208V1ø	DHP-1	19	25	208V-1ø	10,000-24,000	15,700	21.3	IT 301		
DAHU-2	700	-	-	1.0	208V-1ø	DHP-2	19	25	208V-1ø	10,000-24,000	15,700	21.3	ERRC/DATA 310		
DAHU-3	900	_		1.0	208V–1ø	DHP-3	25	30	208V1ø	16,000-42,000	31,800	17.7	ELECTRICAL 300		

(3) CAPACITY AT 17" F OUTSIDE AIR TEMPERATURE. 3 BASIS OF DESIGN UNITS ARE MITSUBISHI P-SERIES.

	POWER VENTILATOR SCHEDULE												
0.410.01	054	500	DOM	TIP	ELECT	RICAL	THOSE			DEMADIZO.			
SYMBOL	CFM	ESP	RPM	SPEED	HP	VOLTAGE	TYPE	DRIVE	CONTROL	REMARKS			
F-1	75	0.50"	768	1358	29 ①	115V1ø	CEILING EXHAUST	DIRECT	2	TOILET 115			
F-2	600	0.50"	1245	3645	1/4	115V–1ø	ROOF MOUNTED CENTRIFUGAL	DIRECT	AHU-17	MEN 303/WOMEN 304			
F-3	2000	0.50"	1185	7485	1/2	115V-1ø	SIDEWALL PROPELLER SUPPLY	BELT	3	VEHICLE BAY 400			
F-4	2000	0.50"	1185	7485	1/2	115V–1ø	SIDEWALL PROPELLER EXHAUST	BELT	3	VEHICLE BAY 400			

(1) WATTS. (2) LIGHTING SYSTEM'S OCCUPANCY SENSOR.

SY	MBOL	CI
A	\S-1	-
A	S-2	-
A	S-3	_
A	S-4	-
A	S-5	-
A	S-6	_
1	FACTO TO OF INCLUI TEST" DEVICI BE US	PERAT DING SWIT ES, A
	AIR S	CRUBI
	A.	MAG
	В.	PHO
	C.	MAM
	D.	INP SEC
2	UNIT S MODIF DIESEI MEET POWDE MOTOF	ICATIO _ OR NFPA ER CO
3	UNIT	SHALL
	В.	STA 900
	C.	STA CON FOR

								ENt	ERGY	RECO	VERY	VENT	ILATO	R SC	HEDUL	_E				
	AIR QU	JANTITY	EXT. S.F	. "H2O	FAN	I HP				CORE	HEAT EXC	HANGER					ELECTRIC	AL		
SYMBOL	OUTSIDE	EVHALIST	04/54					OUTSIDE A	R	l	EXHAUST A	NR .		SUPPLY A	R		VOLTAGE		TAGE BASIS OF DESIGN	REMARKS
	AIR CFM			1	OA/SA	EX.A	COOLING DB*F	COOLING WB*F	HEATING DB ⁺ F	COOLING DB*F	COOLING WB'F	HEATING DB ⁺ F	COOLING DB°F	COOLING WB'F	HEATING DB°F	MCA	MOCP	MOCP & PHASE		
ERV-1	1100	1100	0.75	0.75	3/4	3/4	93.0	77.0	24.0	75.0	62.4	70.0	82.0	70.6	52.1	16	20	208V–1ø	RUSKIN MCV1000	SERVING AHU-11
ERV-2	1100	1100	0.75	0.75	3/4	3/4	93.0	77.0	24.0	75.0	62.4	70.0	82.0	70.6	52.1	16	20	208V–1ø	RUSKIN MCV1000	SERVING AHU-14

1) EXT. S.P. INCLUDES DUCTWORK. FILTERS IN UNIT ARE NOT INCLUDED IN THIS FIGURE.

						S	PLI	T SYS	TEM	AIR	CO	NDITIO	NING	UNITS	SCHED	DULE
			AIR HAN	DLING	UNIT S	SECTION						OUTDOOR S	SECTION			
	AIR Q	UANTITY	EXT.			ELECT	RICAL				ELECT	RICAL	COOLING	HEATING		REMARKS
SYMBOL	TOTAL CFM	OUTSIDE CFM	SP "H20 ①	MCA	MOCF	STRIP HEAT (KW)	FAN HP	VOLTAGE & PHASE	SYMBOL	MCA	моср	VOLTAGE & PHASE			SEER	
AHU-1	1100	200	0.50	42	45	10.8	1/2	208V-3ø	HP-1	6	15	480V-3ø	35,000	20,000	15.0	CLASSROOM 208 4
AHU-2	1500	225	0.50	44	45	10.8	3/4	208V-3ø	HP-2	8	15	480V-3ø	47,000	27,000	14.5	CLASSROOM 204 4
AHU-3	1500	225	0.50	44	45	10.8	3/4	208V-3ø	HP-3	8	15	480V-3ø	47,000	27,000	14.5	CLASSROOM 200 4
AHU-4	1500	200	0.50	44	45	10.8	3/4	208V-3ø	HP-4	8	15	480V-3ø	47,000	27,000	14.5	CLASSROOM 207 4
AHU-5	1900	250	0.50	46	50	10.8	1	208V3ø	HP5	9	15	480V-3ø	57,500	34,600	14.5	EMS CLASSROOM 203 4
AHU-6	1100	200	0.60	42	45	10.8	1/2	208V-3ø	HP-6	6	15	480V-3ø	35,000	20,000	15.0	STAFF LOUNGE 114/OFFICE 110/OFFICE 112/WRKRM 108 4
AHU-7	700	100	0.70	28	30	7.2	1/3	208V3ø	HP-7	15	25	208V-1ø	22,700	14,400	14.6 (7)	OFFICE 105/OFFICE 107/OFFICE 109/OFFICE 111/OFFICE 1134
AHU-8	700	125	0.70	28	30	7.2	1/3	208V-3ø	HP-8	15	25	208V-1ø	22,700	14,400	14.6⑦	OFFICE 102/OFFICE 104/OFFICE 106 4
AHU-9	2800	3006	0.50	27	30	14.97	1.5	480V-3ø	HP-9	15	20	480V-3ø	96,900	79,300	11.2 (8)	LOBBY 100/VESTIBULE V1/VESTIBULE V25
AHU-10	900	150	0.50	28	30	7.2	1/3	208V-3ø	HP-10	15	25	208V-1ø	29,200	17,200	15.2⑦	DRIVING SIMULATORS 101 & 103 4
AHU-11	1100	150 (9)	0.50	42	45	10.8	1/2	208V-3ø	HP-11	6	15	480V-3ø	35,000	20,000	15.0	MEN & WOMEN LOCKER ROOMS (4)
AHU-12	1100	150	0.50	42	45	10.8	1/2	208V-3ø	HP-12	6	15	480V-3ø	35,000	20,000	15.0	DECISION MAKING SIMULATOR 307 4
AHU-13	1900	400	0.50	46	50	10.8	1	208V-3ø	HP-13	9	15	480V-3ø	57,500	34,600	14.5	MAT ROOM 306 4
AHU-14	1300	1300 🔞	0.60	44	45	10.8	3/4	208V-3ø	HP14	8	15	480V-3ø	47,000	27,000	14.5	LAUNDRY-DECON 401/TURNOUT GEAR 402/SCBA STOR. 403/STOR. 404
AHU-15	1500	200	0.50	44	45	10.8	3/4	208V-3ø	HP-15	8	15	480V-3ø	47,000	27,000	14.5	TACTICAL TRAINING 308 4
AHU-16	5600	4006	0.60	51	60	29.95	3	480V-3ø	HP-16	32	40	480V-3ø	198,800	178,800	10.8 (8)	VEHICLE BAY 400 5
AHU-17	1900	200	0.50	46	50	10.8	1	208V-3ø	HP-17	9	15	480V-3ø	57,500	34,600	14.5	STUDENT LOUNGE 302/MEN 303/WOMEN 304 4

1) EXT. S.P. INCLUDES SUPPLY & RETURN AIR DUCTWORK. MERV 13 FILTERS IN UNIT ARE NOT INCLUDED IN THIS FIGURE.

(2) CAPACITY WHEN MATCHED WITH INDOOR SECTION AT ARI CONDITIONS.

(3) CAPACITY AT 17'F OUTSIDE AIR TEMPERATURE.

4) BASIS OF DESIGN TRANE GAM5 MODEL WITH DOUBLE WALL CONSTRUCTION, ECM SUPPLY FAN, AND CORROSION COATED EVAPORATOR COIL. (5) BASIS OF DESIGN TRANE TWA/TWE MODEL WITH DUAL COMPRESSOR/DUAL CIRCUITS AND SUPPLY FAN VFD.

6 MINIMUM OUTSIDE AIR CFM'S INDICATED WITH 0-100% OA ECONOMIZER WITH RELIEF FAN.

(1) EXT. S.P. INCLUDES SUPPLY & RETURN AIR DUCTWORK. FILTERS IN UNIT ARE NOT INCLUDED IN THIS FIGURE.

2 UNIT HAS VARIABLE CAPACITY - MINIMUM TO MAXIMUM COOLING CAPACITY RANGE INDICATED WHEN MATCHED WITH INDOOR HEAT PUMP SECTION AT AHRI CONDITIONS.

2) SEE APPARATUS BAY VENTILATION CONTROL DIAGRAM AND SEQUENCE OF OPERATION . NOTE THAT F-4 AND F-5 ALWAYS OPERATE AT THE SAME TIME.

				-	AI	R SCRUBBER SCH	EDUL	E			
CFM	FCD			ELEC	TRICAL		DDUC	CONTROL	REMARKS		
-FM	ESP	RPM	HP	AMP	VOLTAGE	TYPE	DRIVE	CONTROL	REMARKS		
	-	1725	3/4	13.6	115V—1ø	EXHAUST REMOVAL SYSTEM	DIRECT	1	VEHICLE BAY 400 234		
-	-	1725	3/4	13.6	115V—1ø	EXHAUST REMOVAL SYSTEM	DIRECT	1	VEHICLE BAY 400 234		
-	_	1725	3/4	13.6	115V–1ø	EXHAUST REMOVAL SYSTEM	DIRECT	1	VEHICLE BAY 400 234		
-	<u> </u>	1725	3/4	13.6	115V–1ø	EXHAUST REMOVAL SYSTEM	DIRECT	1	VEHICLE BAY 400 234		
-	-	1725	3/4	13.6	115V—1ø	EXHAUST REMOVAL SYSTEM	DIRECT	1	VEHICLE BAY 400 234		
-	-	1725	3/4	13.6	115V-1ø	EXHAUST REMOVAL SYSTEM	DIRECT	1	VEHICLE BAY 400 234		

CONTROL SHALL BE MULTI-CIRCUIT AUTOMATIC RESET TIMER CONTROL SYSTEM OF 120 V ELECTRICAL CONTROLLER IN NEMA 4 CABINET ADJUSTABLE LOW VOLTAGE TIME DELAY RELAY, LED "SYSTEM ACTIVATED" INDICATION LIGHT, ON-OFF-AUTO SELECTOR SWITCH, "SYSTEM ITCH TO ACTIVATE SYSTEM FOR A TIMED CYCLE, 120 V TO 24 V, 2A LOW VOLTAGE TRANSFORMER TO POWER SYSTEM ACTIVATION AND MEETING UL 508 FOR INDUSTRIAL ENCLOSED CONTROL PANELS. ONCE ACTIVATED, ELAPSED TIME FOR SCRUBBER OPERATION SHALL -DETERMINED WITH TIMING RANGE OF 1 MINUTE TO 120 MINUTES.

BBER ACTIVATION SHALL BE VIA THE FOLLOWING, ALL IN PARALLEL:

AGNETIC DOOR SWITCH (ONE PER VEHICLE DOOR) AS PART OF AIR SCRUBBER SYSTEM.

HOTOELECTRIC EYES (TO DETECT VEHICLE MOVEMENT) AS PART OF AIR SCRUBBER SYSTEM.

ANUAL ON-OFF-AUTO SELECTOR SWITCH WITH LABEL.

PUT SIGNAL FROM CARBON MONOXIDE (CO)/NITROGEN DIOXIDE (NO2) SENSING SYSTEM IN SPACE, SENSING SYSTEM AS SPECIFIED IN ECTION 230900 BY BAS CONTROL CONTRACTOR.

BE FULLY-AUTOMATED, SELF-CONTAINED, RECIRCULATING HOSELESS TYPE SYSTEM. UNIT SHALL REQUIRE NO STRUCTURAL IONS OR EXHAUSTING TO THE BUILDING EXTERIOR. UNIT SHALL BE CEILING HUNG TYPE DESIGNED TO AUTOMATICALLY REMOVE HARMFUL GASOLINE FUMES AND PARTICULATES, AS WELL AS HAZARDOUS BACKWASH, WITHOUT INTERFERENCE TO DAILY OPERATIONS. UNITS SHALL 1500, OSHA, IBOCA, EPA AND GSA STANDARDS. UNIT SHALL BE ENCLOSED IN 16 OR 18 GAUGE COLD-ROLLED STEEL CABINET WITH COAT FINISH AND SHALL HAVE FOUR-SIDED ADJUSTABLE DISCHARGE GRILLS THAT MAINTAIN 360-DEGREE CLEAN AIR OUTPUT, LOWER UNIT, AND ACCESS PANELS.

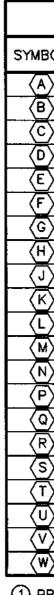
L BE PROVIDED WITH A 4-STAGE FILTER PACK CONSISTING OF:

TAGE 1 PRE-FILTER - 3 PLY POLYESTER CONSTRUCTION, SELF-SEALING, MEETING REQUIREMENTS FOR CLASS 2 IN ACCORDANCE WITH UL 00 AND ULC/CAN S111. CERTIFIED EFFICIENCY OF 30 TO 35 PERCENT BASED ON ASHRAE 52.2 TEST METHOD.

TAGE 2 MAIN MEDIA FILTER - HIGH EFFICIENCY PARTICULATE AIR FILTER, WITH ULTRA-FINE PLEATED FIBERGLASS MEDIA PACK, ONSTRUCTED WITH 24 GAUGE GALVANIZED METAL FRAME AND CORRUGATED ALUMINUM DIVIDERS BETWEEN PLEATS, MEETING REQUIREMENTS OR CLASS 2 IN ACCORDANCE WITH UL 900 AND MERV 16. CERTIFIED EFFICIENCY OF 95 TO 99.97 PERCENT BASED ON DIOCTYL PHTHALATE (DOP) TESTING WITH 0.3 MICROMETER PARTICLES.

D. STAGE 3 & 4 GAS PHASE EXTRACTOR - 2-PART GAS PHASE EXTRACTOR WITH ACTIVATED CARBON FILTER FOR REMOVAL OF HEAVY WEIGHT GASES AND POTASSIUM PERMANGANATE FILTER FOR REMOVAL OF LIGHT WEIGHT GASES. HEAVY AND LIGHT WEIGHT FILTERS ARE EACH CONSTRUCTED WITH 24 GAUGE GALVANIZED METAL FRAME AND HONEYCOMB CONTAINMENT STRUCTURE.

PROVIDE SETS OF FILTERS FOR EACH SYSTEM AS NECESSARY DURING CONSTRUCTION, A CLEAN SET FOR TAB, A CLEAN SET AT FINAL OCCUPANCY, AND ONE ADDITIONAL SET OF FILTERS AS OWNER STOCK. IF SYSTEM INCLUDES PREFILTERS, INCLUDE PREFILTERS.





		LUU	JVERED	FENIHUUSE	SCHEDULE
SYMBOL	CFM	THROAT SIZE	MAX.AIR PRESS. DROP "H20	TYPE	SERVING
LP#1	200	12"×12"	0.10	OUTSIDE AIR INTAKE	AHU-1
LP#2	450	12"×12"	0.10	OUTSIDE AIR INTAKE	AHU-2 & AHU-3
LP#3	450	12"×12"	0.10	OUTSIDE AIR INTAKE	AHU-4 & AHU-5
LP#4	325	12"x12"	0.10	OUTSIDE AIR INTAKE	AHU-6 & AHU-8
LP#5	1300-3800	28"×36"	0.10	OUTSIDE AIR INTAKE	AHU-7, 9, 10, 12, 13 & 17
LP#6	2800	28"×28"	0.10	RELIEF AIR	AHU-9

⑦ SEER2.

8 EER.

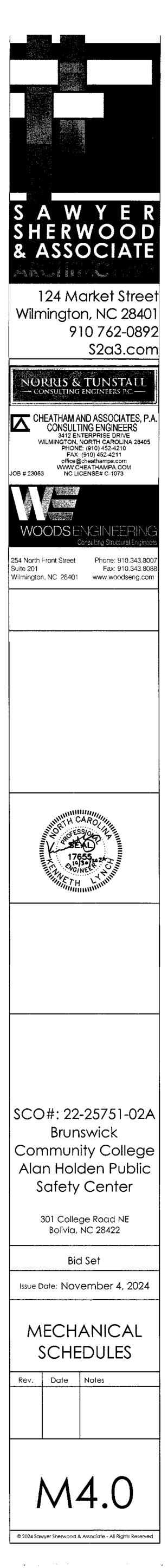
9 FROM ERV-1. 1100 CFM FROM ERV-2 AND 200 CFM FROM OA INTAKE.

		REGIST	ER, GRILLE & DIFFUSER	SCHEDUL	E
BOL	CFM	NECK SIZE	TYPE	RUNOUT	REMARKS
A	50-100	6"X6"	2'X2' LAY-IN CEILING SA DIFFUSER	6"ø	
A> B>	125-225	9"X9"	2'X2' LAY-IN CEILING SA DIFFUSER	8"ø	
c)	250-400	12"X12"	2'X2' LAY-IN CEILING SA DIFFUSER	10 " ø	
D	125-225	9"X9"	CEILING SA DIFFUSER	8 " ø	
E	125 CFM/LF MAX.	_	8'-0" SIDEWALL LINEAR BAR SA GRILLE	10"ø	6" CORE AND 30 DEGREE DEFLECTION (1)
F	100 CFM/LF MAX.	_	4' CEILING SA SLOT DIFFUSER	10"ø	5-1/4" WIDE, 2 SLOT WITH 1-1/2" WIDE SLOTS & 1" WIDE BO
୍	50-225	12"X8"	SPIRAL DUCT SA GRILLE CURVED WITH DUCT		WITH INTEGRAL AIR SCOOP
H)	50-225	12"X6"	SIDEWALL SA REGISTER	10"ø	
J	250-400	16"X8"	SIDEWALL SA REGISTER	12"ø	
<u>K)</u>	425-600	18 * X12"	SIDEWALL SA REGISTER	12"ø	
Ŀ	501600	22"X22"	2'X2' LAY-IN RA REGISTER	SEE PLANS	
M	750-1600	24"X24"	CEILING RA REGISTER	SEE PLANS	
$\overline{\mathbb{N}}$	875-1575	24"X24"	SIDEWALL RA GRILLE	SEE PLANS	INSTALL WITH BLADES UP
P	3025-3300	48"X24"	SIDEWALL RA GRILLE	SEE PLANS	INSTALL WITH BLADES UP
<u>a</u> >	4025-6000	48"X48"	SIDEWALL RA GRILLE	SEE PLANS	INSTALL WITH BLADES UP
R S	50-200	10"X10"	EXHAUST REGISTER	SEE PLANS	
S	225-500	12"X12"	EXHAUST REGISTER	SEE PLANS	
T	50300	12"X8"	SPIRAL DUCT RA GRILLE CURVED WITH DUCT	_	
$\overline{\mathbb{U}}$	325-550	18"X12"	SPIRAL DUCT RA GRILLE CURVED WITH DUCT	-	
$\overline{\mathbb{V}}$	250-400	16"X8"	SPIRAL DUCT SA GRILLE CURVED WITH DUCT	-	WITH INTEGRAL AIR SCOOP
W	425-600	18"X12"	SPIRAL DUCT SA GRILLE CURVED WITH DUCT		WITH INTEGRAL AIR SCOOP

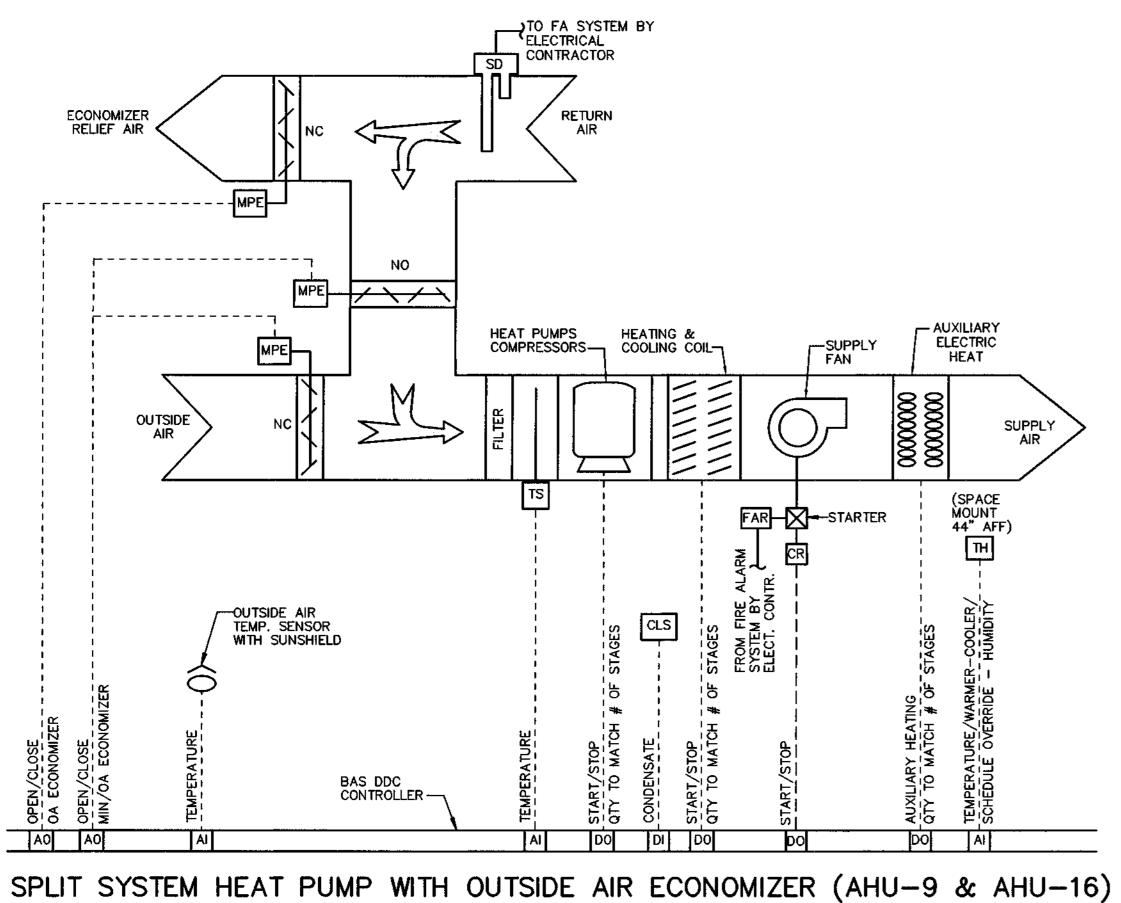
1 PROVIDE PLENUM BOX AND OPPOSED BLADE DAMPER.

				BA	SEB0/	ARD SCHEDULE
MBOL	BTU/HR	ELE WATTS	ECTRICAL VOLTAGE & PHASE	MAXIMUM LENGTH	MAXIMUM HEIGHT	REMARKS
3B#1	3000	1000	208V–1ø	48"	8'-0"AFF	RISER ROOM 406 - MOUNT ABOVE DOOR

LOUVERED PENTHOUSE SCHEDULE



_____ . BORDER ____



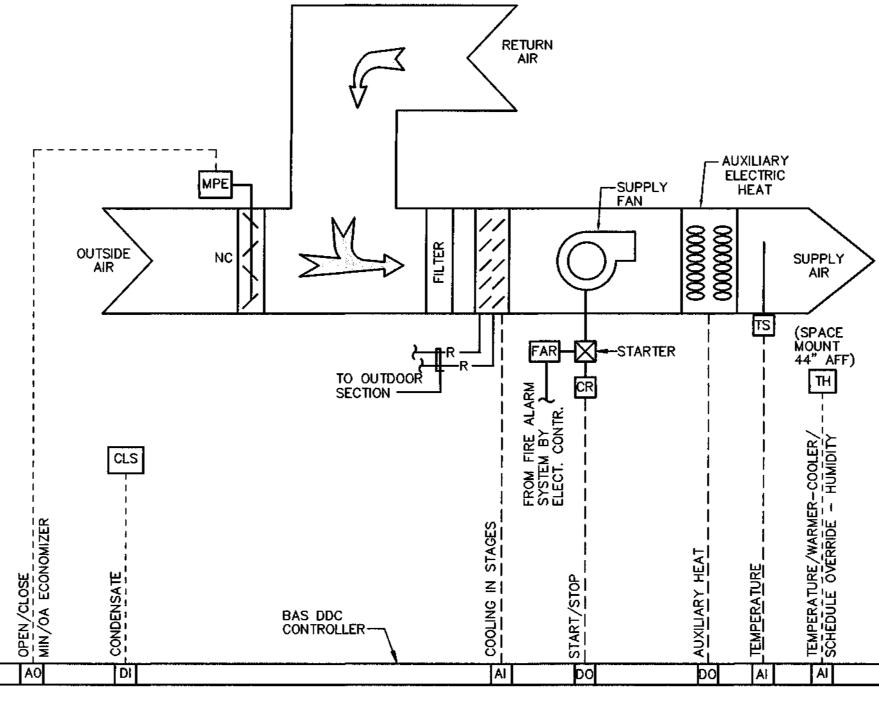
A. OCCUPIED:

- 1. THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY.
- 2. OUTSIDE AIR DAMPER AND RETURN AIR DAMPER SHALL OPEN TO POSITIONS FOR MINIMUM OUTSIDE AIR AIRFLOW
- . WHEN THE SPACE TEMPERATURE RISES ABOVE THE COOLING SETPOINT, THE COMPRESSORS SHALL OPERATE COOLING IN STAGES TO MAINTAIN SPACE TEMPERATURE SETPOINT.

SEQUENCE OF OPERATION

- 4. WHEN THE SPACE TEMPERATURE FALLS BELOW THE HEATING SETPOINT, THE COMPRESSORS AND AUXILIARY ELECTRIC HEAT SHALL OPERATE HEATING IN STAGES AS NECESSARY TO MAINTAIN THE SPECIFIED SPACE TEMPERATURE SETPOINT. B. UNOCCUPIED:
- THE UNIT SHALL BE ENERGIZED WHEN NEEDED TO MAINTAIN THE UNOCCUPIED OR NIGHT SETBACK SPACE TEMPERATURE SETPOINTS.
- 2. UNIT SUPPLY FAN SHALL BE ON TO OPERATE THE SAME AS IN OCCUPIED MODE.
- 3. OUTDOOR AIR DAMPERS SHALL BE CLOSED. RETURN AIR DAMPER SHALL BE OPEN FULL. FAN, COMPRESSORS AND AUXILIARY ELECTRIC HEAT SHALL OPERATE IN COOLING AND HEATING TO MAINTAIN SPACE TEMPERATURE SETPOINTS. UNIT AND FAN SHALL BE OFF WHEN THE SETPOINTS ARE SATISFIED.
- 4. THE UNIT MAY BE RESET TO THE OCCUPIED MODE FOR A PREDETERMINED TIME PERIOD UPON A SIGNAL FROM THE SPACE SENSOR.
- C. DE-HUMIDIFICATION: IF THE SPACE RELATIVE HUMIDITY RISES ABOVE A LIMIT OF 65% RH (ADJUSTABLE), SYSTEM COOLING SHALL BE ENERGIZED. AUXILIARY ELECTRIC HEAT SHALL OPERATE AS NECESSARY TO MAINTAIN THE SPACE TEMPERATURE AT COOLING SET POINT. WHEN THE HUMIDITY FALLS TO 50% RH (ADJUSTABLE), THE SYSTEM SHALL REVERT TO NORMAL MODE OF OPERATION. D. ECONOMIZER, AND VENTILATION CYCLES:
- 1. DURING THE OCCUPIED PERIOD THE DAMPERS SHALL MAINTAIN MINIMUM VENTILATION RATE. RELIEF AIR DAMPER SHALL BE CLOSED. MINIMUM VENTILATION RATE IS INDICATED IN UNIT SCHEDULE ON THE DRAWINGS. THE OUTDOOR AIR DAMPER SHALL REMAIN CLOSED DURING UNOCCUPIED PERIODS AND UNOCCUPIED LOW/HIGH LIMIT CONDITIONS.
- 2. DURING THE OCCUPIED PERIOD WHEN THERE IS A CALL FOR COOLING BASED ON SPACE TEMPERATURE AND OUTSIDE AIR DRY BULB TEMPERATURE IS 55' (ADJUSTABLE) OR LESS, ECONOMIZER MODE SHALL BE ENABLED. UNIT SHALL USE OUTDOOR AIR DAMPERS AND RELIEF AIR DAMPERS MODULATING OPEN TO 100%, AND RETURN AIR DAMPERS MODULATING CLOSED TO 100% TO SATISFY SPACE COOLING SETPOINT. IF OUTDOOR AIR DAMPERS ARE 100% OPEN AND SPACE TEMPERATURE RISES ABOVE THE COOLING SETPOINT, THE COMPRESSORS SHALL ALSO OPERATE IN COOLING.
- E. SEE VEHICLE BAY 400 VENTILATION AND AIR CONDITIONING DIAGRAM FOR ADDITIONAL SEQUENCE OF OPERATION FOR AHU-16 SYSTEM RELATED TO BAY CO, NO2, VENTILATION FANS AND OVERHEAD DOORS. F. SAFETIES:
- 1. UPON LOW MIXED AIR TEMP DETECTION, ALL ACTIVE COOLING AND ECONOMIZING MODES SHALL BE DEENERGIZED IMMEDIATELY, THE OUTDOOR AIR DAMPERS AND RELIEF AIR DAMPERS SHALL CLOSE, RETURN AIR DAMPERS SHALL BE 100% OPEN, AND AN ALARM SHALL BE GENERATED.
- 2. UPON HIGH LEVELS OF CONDENSATE IN AUXILIARY DRAIN CONNECTION, COOLING SHALL BE DEENERGIZED. 3. UNITS SHALL DEENERGIZE IMMEDIATELY ON SIGNAL FROM FIRE ALARM SYSTEM.
- G. SYSTEMS USING A2L REFRIGERANTS: 1. SYSTEMS USING A2L WITH REFRIGERANT CHARGE > 4.0 LBS SHALL HAVE INTEGRAL FACTORY INSTALLED REFRIGERANT LEAK DETECTION SYSTEM MOUNTED IN THE AIR HANDLING UNIT SECTION DOWNSTREAM OF THE EVAPORATOR COIL WITH INTERNAL CONTROLS TO AUTOMATICALLY UPON REFRIGERANT DETECTED, UNIT COMMANDS COMPRESSORS AND ELECTRIC HEAT (IF PRESENT) OFF, AND COMMANDS AIR HANDLING UNIT'S FAN TO MAXIMUM AIRFLOW FOR AIR CIRCULATION. ONCE REFRIGERANT HAS NOT BEEN DETECTED FOR A MINIMUM OF 5 MINUTES, UNIT SHALL RETURN TO NORMAL OPERATION.
- 2. FOR SYSTEMS USING A2L REFRIGERANT, IF RELEASABLE REFRIGERANT CHARGE IN THE SYSTEM EXCEEDS THE LEVELS ALLOWED IN ANSI/ASHRAE STANDARD 15 2022 OR NEWER FOR THE EFFECTIVE DISPERSAL VOLUME, PROVIDE SAFETY ISOLATION VALVES IN BOTH REFRIGERANT LINES AS RELEASE MITIGATION CONTROLS. VALVES SHALL AUTOMATICALLY CLOSE UPON SIGNAL FROM THE UNIT INTEGRAL REFRIGERANT LEAK DETECTOR. VALVE LOCATIONS SHALL BE AS SUCH FOR RELEASABLE REFRIGERANT CHARGE TO BE LESS THAN THE LEVELS ALLOWED IN ANSI/ASHRAE STANDARD 15 - 2022 OR NEWER FOR THE EFFECTIVE DISPERSAL VOLUME.



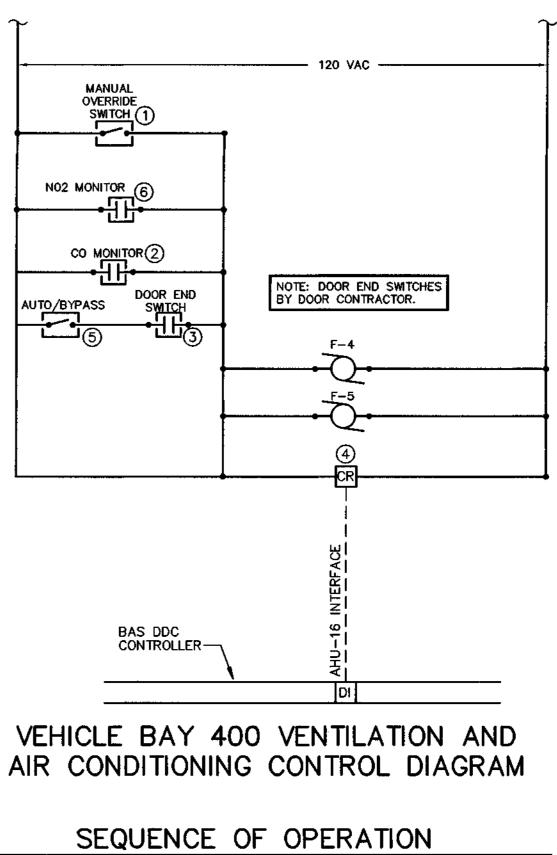


SPLIT SYSTEM HEAT PUMP SEQUENCE OF OPERATION

1. THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY.

A. OCCUPIED:

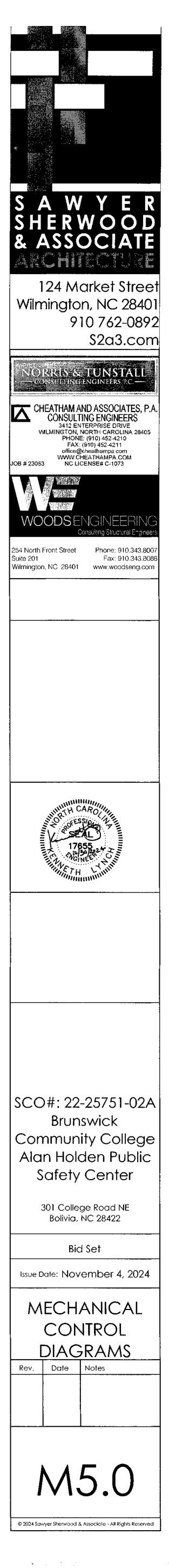
- DAMPER SHALL OPEN TO POSITION FOR OUTSIDE AIR AIRFLOW.
- WHEN THE SPACE TEMPERATURE RISES ABOVE THE COOLING SETPOINT, THE COMPRESSORS SHALL OPERATE COOLING IN STAGES AND SUPPLY AIR FAN SHALL ADJUST SPEED TO MAINTAIN SPACE TEMPERATURE SETPOINT.
- 4. WHEN THE SPACE TEMPERATURE FALLS BELOW THE HEATING SETPOINT, THE COMPRESSOR AND AUXILIARY ELECTRIC HEAT SHALL OPERATE HEATING IN STAGES AS NECESSARY TO MAINTAIN SPACE TEMPERATURE SETPOINT. B. UNOCCUPIED:
- 1. THE UNIT SHALL BE ENERGIZED WHEN NEEDED TO MAINTAIN THE UNOCCUPIED OR NIGHT SETBACK SPACE TEMPERATURE SETPOINTS AND UNIT SUPPLY FAN SHALL BE ON. 2. OUTDOOR AIR DAMPERS SHALL BE CLOSED.
- 3. FAN, COMPRESSOR AND AUXILIARY ELECTRIC HEAT SHALL OPERATE IN COOLING AND HEATING TO MAINTAIN SPACE
- TEMPERATURE SETPOINTS. 4. UNIT AND FAN SHALL BE OFF WHEN THE SETPOINTS ARE SATISFIED.
- 5. THE UNIT MAY BE RESET TO THE OCCUPIED MODE FOR A PREDETERMINED TIME PERIOD UPON A SIGNAL FROM THE
- SPACE SENSOR.
- C. DE-HUMIDIFICATION: IF THE SPACE RELATIVE HUMIDITY RISES ABOVE A LIMIT OF 65% RH (ADJUSTABLE), SYSTEM COOLING SHALL BE ENERGIZED. AUXILIARY ELECTRIC HEAT SHALL OPERATE AS NECESSARY TO MAINTAIN THE SPACE TEMPERATURE AT COOLING SET POINT. WHEN THE HUMIDITY FALLS TO 50% RH (ADJUSTABLE), THE SYSTEM SHALL REVERT TO NORMAL MODE OF OPERATION D. SAFETIES:
- 1. UPON HIGH LEVELS OF CONDENSATE IN AUXILIARY DRAIN CONNECTION, COOLING SHALL BE DEENERGIZED. 2. UNITS SHALL DEENERGIZE IMMEDIATELY ON SIGNAL FROM FIRE ALARM SYSTEM.
- E. SYSTEMS USING A2L REFRIGERANTS:
- SYSTEMS USING A2L WITH REFRIGERANT CHARGE > 4.0 LBS SHALL HAVE INTEGRAL FACTORY INSTALLED REFRIGERANT LEAK DETECTION SYSTEM MOUNTED IN THE AIR HANDLING UNIT SECTION DOWNSTREAM OF THE EVAPORATOR COIL WITH INTERNAL CONTROLS TO AUTOMATICALLY UPON REFRIGERANT DETECTED, UNIT COMMANDS COMPRESSORS AND ELECTRIC HEAT (IF PRESENT) OFF, AND COMMANDS AIR HANDLING UNIT'S FAN TO MAXIMUM AIRFLOW FOR AIR CIRCULATION. ONCE REFRIGERANT HAS NOT BEEN DETECTED FOR A MINIMUM OF 5 MINUTES, UNIT SHALL RETURN TO NORMAL OPERATION.
- 2. FOR SYSTEMS USING A2L REFRIGERANT, IF RELEASABLE REFRIGERANT CHARGE IN THE SYSTEM EXCEEDS THE LEVELS ALLOWED IN ANSI/ASHRAE STANDARD 15 2022 OR NEWER FOR THE EFFECTIVE DISPERSAL VOLUME, PROVIDE SAFETY ISOLATION VALVES IN BOTH REFRIGERANT LINES AS RELEASE MITIGATION CONTROLS. VALVES SHALL AUTOMATICALLY CLOSE UPON SIGNAL FROM THE UNIT INTEGRAL REFRIGERANT LEAK DETECTOR. VALVE LOCATIONS SHALL BE AS SUCH FOR RELEASABLE REFRIGERANT CHARGE TO BE LESS THAN THE LEVELS ALLOWED IN ANSI/ASHRAE STANDARD 15 - 2022 OR NEWER FOR THE EFFECTIVE DISPERSAL VOLUME.

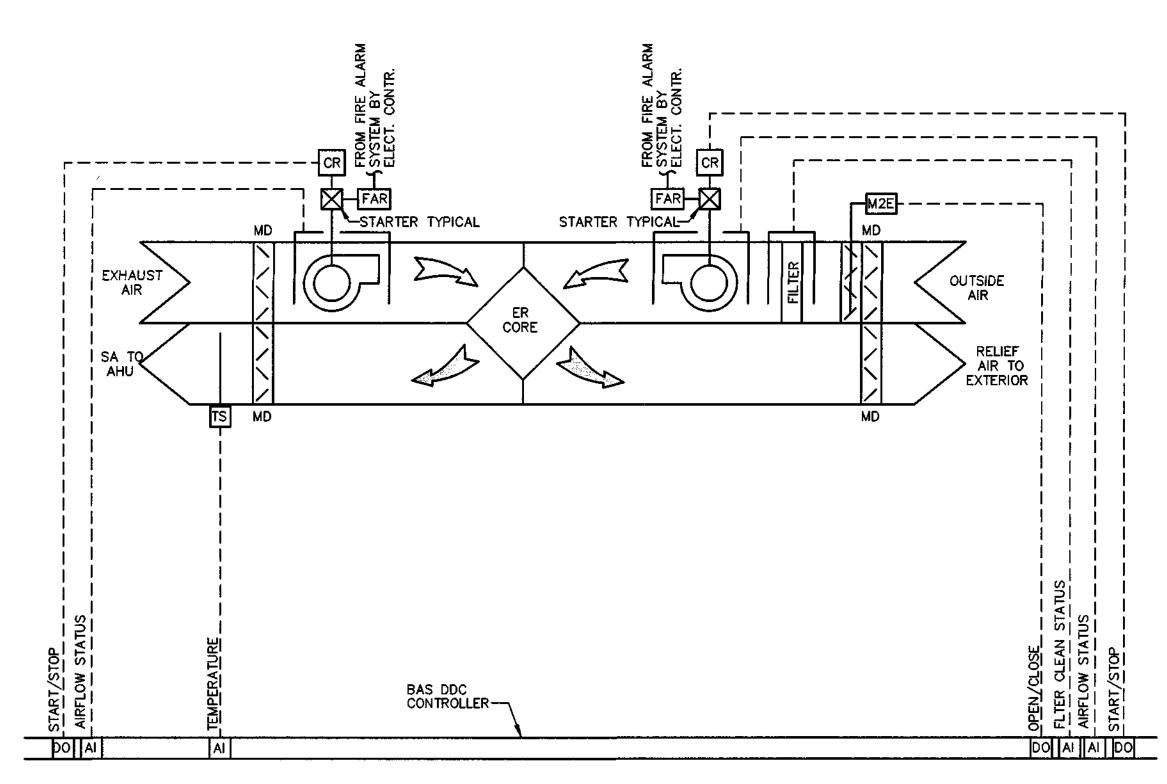


- A. WHEN MANUAL OVERRIDE SWITCH (1) IS OPEN, FANS F-4 AND F-5 ARE OFF AND AHU-16 IS ALLOWED TO OPERATE.
- B. WHEN MANUAL OVERRIDE SWITCH (1) IS CLOSED, REGARDLESS OF DOOR POSITION, FANS F-4 AND F-5 SHALL BE ON AND AHU-16 SHALL BE OFF VIA RELAY (4).
- C. WHEN CARBON MONOXIDE MONITOR (2) REACHES ALARM LEVEL, RELAY SHALL ENERGIZE FANS F-4 AND F-5, ALARM, AND DEENERGIZE AHU-16 VIA NC RELAY(4).
- D. WHEN ANY DOOR END SWITCH (3) IS CLOSED BECAUSE DOOR IS OPEN, FANS F-4 AND F-5 SHALL BE ON AND AHU-16 SHALL BE OFF VIA NC RELAY(4). IF IT IS DESIRED TO STOP FANS F-4 AND F-5 WITH DOORS OPEN, OPEN SWITCH(5).
- E. WHEN ALL DOORS ARE CLOSED, FANS F-4 AND F-5 ARE OFF AND AHU-16 SHALL OPERATE AS REQUIRED BY SPACE SENSOR.
- F. WHEN NITROGEN DIOXIDE MONITOR (6) REACHES ALARM LEVEL, RELAY SHALL ENERGIZE FANS F-4 AND F-5, ALARM, AND DEENERGIZE AHU-16 VIA NC RELAY(4)

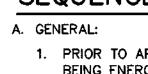
CONTROL	SYMBOL	I FGFND
CONTROL	JINDOL	

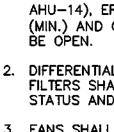
CLS	CONDENSATE LEVEL SWITCH
TS	TEMPERATURE SENSOR
CR	CONTROL RELAY
M2E	MOTOR OPERATED TWO POSITION ELECTRIC
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
0/V	OCCUPANCY/VACANCY SENSOR
SA	SUPPLY AIR
RA	RETURN AIR
OA	OUTSIDE AIR
φ	CURRENT SENSOR
\boxtimes	COMBINATION STARTER/DISCONNECT
со	CARBON MONOXIDE DETECTOR
N02	NITROGEN DIOXIDE MONITOR
FAR	FIRE ALARM RELAY

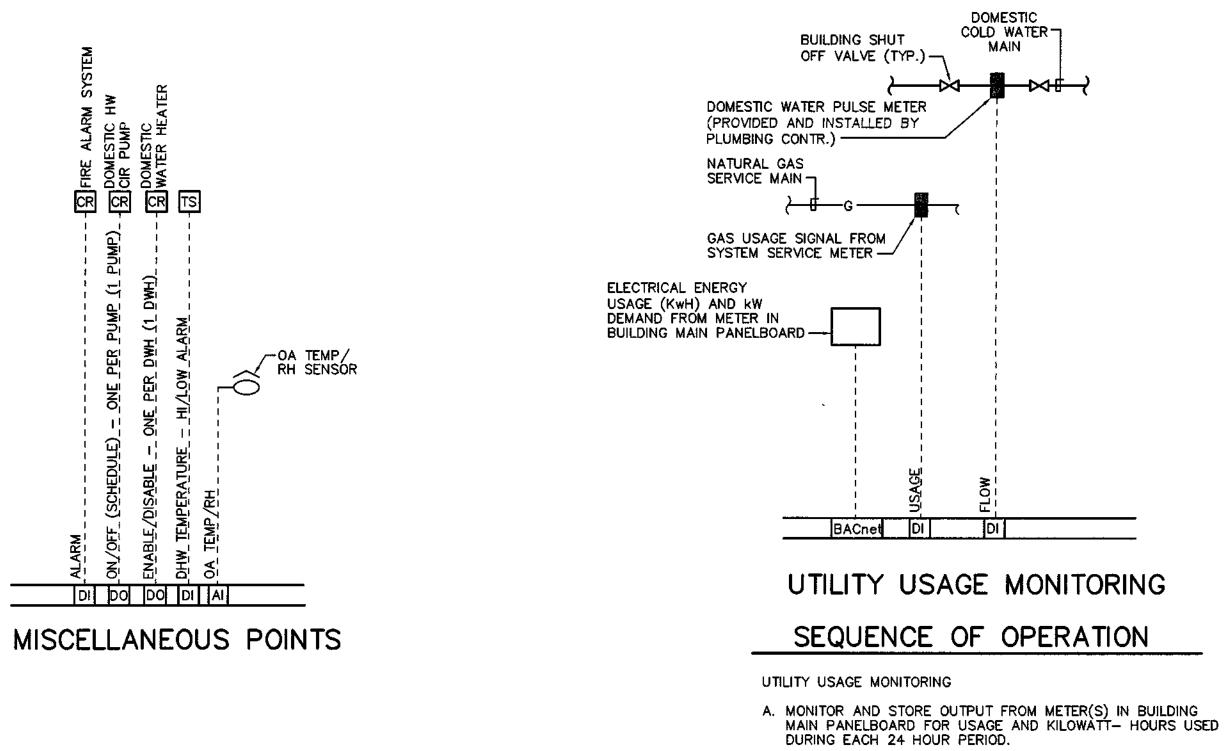








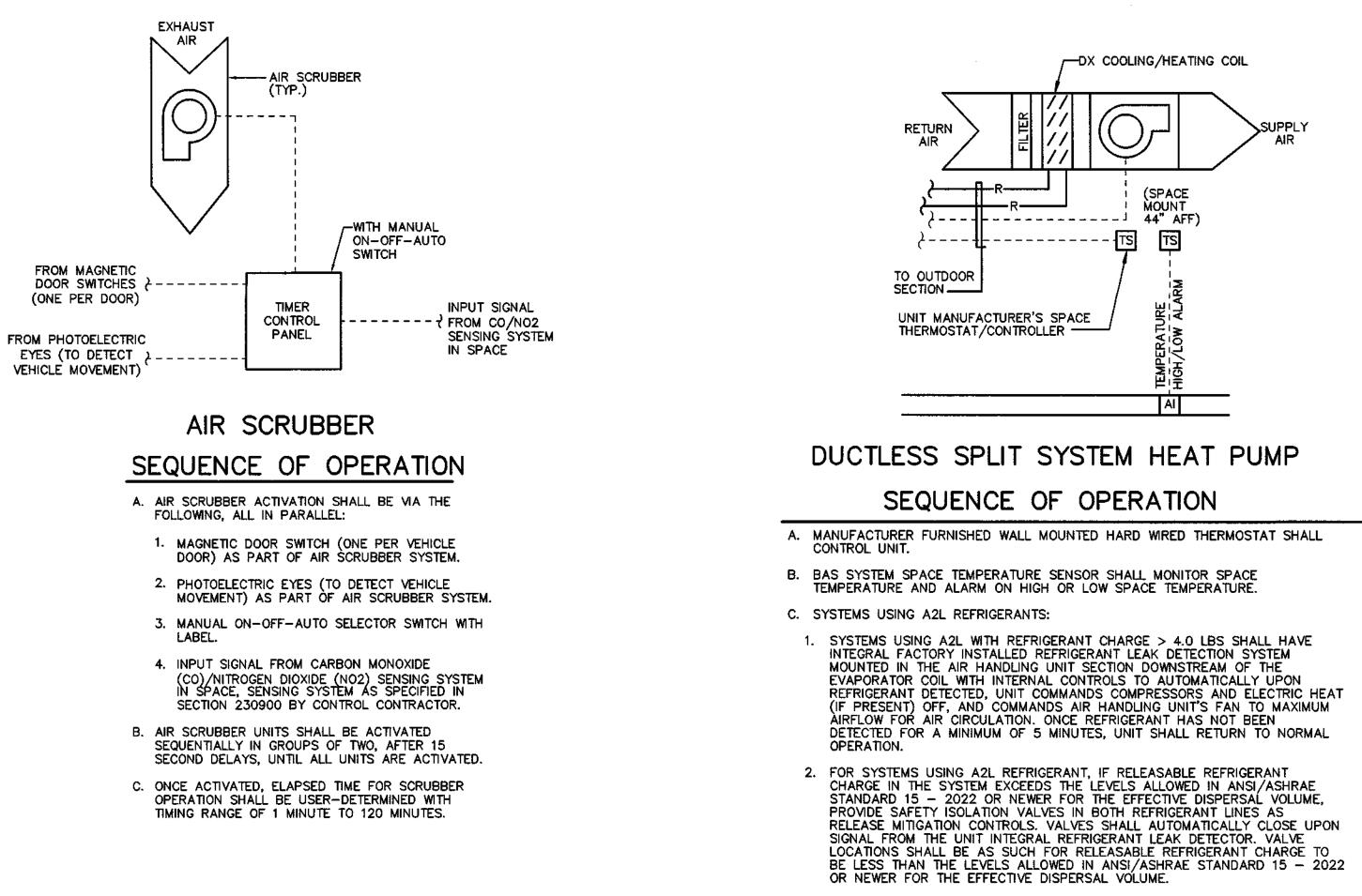




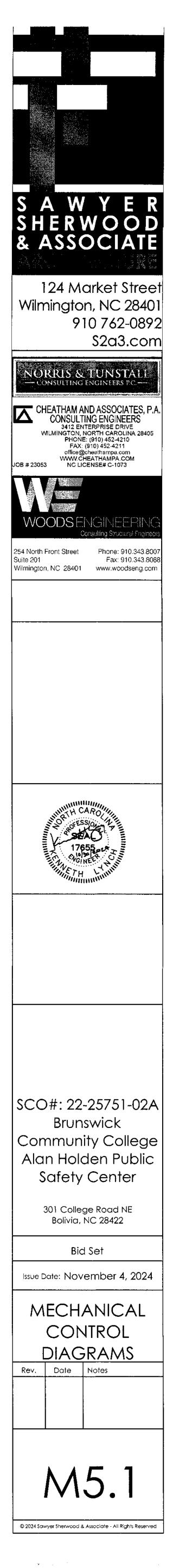
ENERGY RECOVERY VENTILATOR SEQUENCE OF OPERATION

1. PRIOR TO APPROPRIATE AIR HANDLING UNIT INDOOR FAN BEING ENERGIZED (ERV-1 FOR AHU-11 AND ERV-2 FOR AHU-14), ERV FAN SHALL BE ENERGIZED FOR 60 SECONDS (MIN.) AND OUTSIDE AIR MOTOR OPERATED DAMPER SHALL

2. DIFFERENTIAL PRESSURE SENSORS ACROSS FILTERS AND FILTERS SHALL PROVIDE AIRFLOW STATUS AND FILTER STATUS AND ALARM TO DDC. 3. FANS SHALL DEENERGIZE IMMEDIATELY UPON SIGNAL FROM FIRE ALARM SYSTEM.



- B. MONITOR AND STORE OUTPUT FROM PULSE METER(S) INSTALLED IN INCOMING DOMESTIC WATER SERVICE(S) FOR GALLONS SUPPLIED DURING EACH 24 HOUR PERIOD.
- C. PROVIDE REPORT FORMAT FOR PRINTING INDICATING MEASURE DATES AND QUANTITIES MEASURED BETWEEN INDICATED DATES.



<u>ELECTRICAL NOTES</u>

- 1. ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION.
- 2. PERMITS FOR ELECTRICAL WORK SHALL BE OBTAINED BY AND PAID BY THE ELECTRICAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL PAY FOR ANY ADDITIONAL FEES FOR INSPECTIONS, TESTS, AND OTHER SERVICES AS REQUIRED FOR THE COMPLETION OF THE WORK.
- 3. THE ELECTRICAL CONTRACTOR AND ANY OF HIS SUBCONTRACTORS SHALL VISIT THE PROJECT SITE TO WITNESS EXISTING CONDITIONS AND BECOME FAMILIAR WITH THE SCOPE OF THE WORK REQUIRED PRIOR TO SUBMITTING PROPOSALS. WORK REQUIRED BY EXISTING JOB CONDITIONS NOT INDICATED ON DRAWINGS SHALL BE INCLUDED IN THE PROPOSALS.
- 4. THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO RESULT IN THE PRODUCTION OF A COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEM. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIAL, LABOR, EQUIPMENT, AND OTHER SERVICES AS NECESSARY TO COMPLETE THE WORK.
- 5. DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS THAT WILL AFFECT THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, ENGINEER, AND/OR OWNER PRIOR TO SUBMITTING PROPOSALS.
- 6. UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHALL BE APPROVED BY NC DEPARTMENT OF INSURANCE PER NCGS 66-25. 7. REVIEW PLANS OF OTHER TRADES FOR COORDINATION OF WORK AND FOR RELATED
- AND ADJOINING WORK. 8. REVIEW COMPLETE PLAN SET FOR CONSTRUCTION TYPE, FINISHES, HEADROOM, ROOF
- FINISHES, CEILINGS, ETC. REVIEW COMPLETE PLAN SET FOR PROJECT PHASING AND STAGING. REVIEW COMPLETE PLAN SET FOR WORK COVERED BY ALTERNATE BID ITEMS. 9. COORDINATE DEVICE AND EQUIPMENT MOUNTING HEIGHTS WITH OTHER DISCIPLINE DRAWINGS, CASEWORK DETAILS & SUBMITTALS, EQUIPMENT DETAILS & SUBMITTALS, ETC.
- 10. PENETRATIONS OF FIRE-RATED WALLS, FLOORS, CEILINGS, AND PARTITIONS SHALL BE FIRE STOPPED IN ACCORDANCE WITH REQUIREMENTS OF THE STATE BUILDING CODE. COORDINATE WORK TO INSURE THAT FIRE STOPPING IS COMPLETED.
- 11. PENETRATIONS OF SMOKE PARTITIONS SHALL BE SEALED IN ACCORDANCE WITH REQUIREMENTS OF THE STATE BUILDING CODE. COORDINATE WORK TO INSURE THAT SMOKE PARTITION SEALING IS COMPLETED.
- 12. PENETRATIONS OF EXTERIOR BUILDING WALLS, FLOORS, OR ROOFS SHALL BE SEALED WATERTIGHT. INTERIORS OF RACEWAY PENETRATIONS THROUGH EXTERIOR WALLS SHALL BE SEALED WITH NON-HARDENING ELECTRICAL PUTTY.
- 13. CUTTING AND PATCHING TO INSTALL DEVICES AND EQUIPMENT SHALL BE PERFORMED WITH FINISHES RESTORED TO THEIR ORIGINAL CONDITION. SUCH WORK SHALL BE COMPLETED TO A DEGREE THAT IS ACCEPTABLE TO THE ARCHITECT, ENGINEER, AND/OR OWNER.
- 14. COORDINATE PRECISE LOCATION OF HVAC EQUIPMENT WITH THE MECHANICAL CONTRACTOR.
- 15. FOR HVAC EQUIPMENT, VERIFY CIRCUIT BREAKER RATINGS, FUSE RATINGS, AND WIRE SIZES. IF RATINGS DIFFER FROM THOSE INDICATED ON THE DRAWINGS, NOTIFY THE ARCHITECT, ENGINEER, AND OWNER FOR DIRECTION. PROVIDE OVERCURRENT PROTECTION IN ACCORDANCE WITH EQUIPMENT MANUFACTURER NAMEPLATE DATA. IF THE EQUIPMENT LISTING LABEL REQUIRES FUSED PROTECTION, ENSURE THAT FUSES IN A FUSED DISCONNECT SWITCH AT THE EQUIPMENT ARE SIZED AS INDICATED ON THE EQUIPMENT LABEL.
- 16. VERIFY PROPER SIZING OF OVERLOAD DEVICES IN STARTERS BASED ON EQUIPMENT NAMEPLATE DATA.
- 17. IF HORSEPOWER OR LOAD RATINGS OF EQUIPMENT DIFFER FROM THOSE INDICATED ON THE DRAWINGS, NOTIFY THE ARCHITECT, ENGINEER, AND OWNER FOR DIRECTION. 18. PROVIDE NATIONAL ELECTRICAL CODE REQUIRED CLEARANCES FOR ALL ELECTRICAL
- EQUIPMENT. COORDINATE RESOLUTION OF CONFLICTS WITH OTHER TRADES. 19. RECEPTACLE, SWITCH, DATA/TELEPHONE OUTLETS SHALL BE FLUSH MOUNTED IN
- FINISHED SPACES UNLESS OTHERWISE NOTED. 20. WHERE INSTALLED IN PLENUM SPACES, CABLES SHALL BE PLENUM-RATED OR
- INSTALLED IN METAL RACEWAY. 21. PRIOR TO ORDERING LIGHT FIXTURES, CONTRACTOR SHALL VERIFY TYPE OF CEILING OR WALL BY REVIEW OF ARCHITECTURAL FINISH SCHEDULES AND PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT FIXTURES IN TYPE OF CEILING OR WALL INDICATED. 22. RECESSED LIGHT FIXTURES INSTALLED IN CEILINGS WITH INSULATION (AS INDICATED IN
- ARCHITECTURAL PLANS, OR FOUND AS EXISTING CONDITIONS) SHALL BE U.L. RATED FOR DIRECT CONTACT WITH INSULATION. 23. RECESSED LIGHT FIXTURES INSTALLED IN FIRE RATED CEILING SHALL BE U.L. RATED
- FOR USE IN FIRE RATED CEILINGS OR SHALL BE INSTALLED WITH "TENTING' IN ACCORDANCE WITH RATING REQUIREMENTS OF THE CEILING ASSEMBLY. 24. EXIT AND EMERGENCY LIGHTS SHALL BE CONNECTED TO THE NEAREST UNSWITCHED
- CIRCUIT THAT SERVES LIGHT FIXTURES WITHIN THE SAME SPACE. 25. NO MOUNTING HARDWARE SHALL BE ATTACHED TO ROOF DECKS. ATTACHMENTS SHALL
- BE MADE TO THE ROOF SUPPORTING STRUCTURE. 26. PANEL BUS MATERIAL: COPPER.
- 27. SHARED NEUTRAL CONDUCTORS SHALL NOT BE USED.
- 28. PANEL BREAKER CONFIGURATIONS SHALL BE INSTALLED AS INDICATED ON THE PANEL SCHEDULES OR AS NOTED. BREAKER POSITION REVISIONS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE ENGINEER.
- 29. LOAD CIRCUITS SHALL BE INSTALLED AS INDICATED ON THE DRAWINGS. CIRCUITRY REVISIONS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY THE ENGINEER.

REQ. RGC

RGS

S.S.

SYS

S/N ΤÝΡ

UNO

UON

XFMR

<u>BREVIATIONS</u>	MISC. ELECTRICAL SYMBOL LEGEND
AMERICAN DISABILITIES ACT ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AIR HANDLER UNIT AMPS INTERRUPTING CAPABILITY ALUMINUM	 ENCLOSED CIRCUIT BREAKER, NEMA 3R IF EXTERIOR, NEMA 1 INSIDE, AMPERAGE AS INDICATED OR BASED ON SUPPLY CIRCUIT RATING. EQUIPMENT CONNECTION SAFETY SWITCH DISCONNECT. HEAVY, DUTY, EUSED AT NAMEDIATE BATING OF
AREA OF RESCUE ASSISTANCE BREAKER CONDUIT CIRCUIT BREAKER	SAFETY SWITCH DISCONNECT, HEAVY-DUTY, FUSED AT NAMEPLATE RATING OF EQUIPMENT SERVED, NEMA 1 INSIDE, NEMA 3R OUTSIDE (UNO), AMPERAGE AS INDICATED OR BASED ON SUPPLY CIRCUIT BREAKER RATING.
CIRCULATING CEILING CIRCUIT	 PANELBOARD, SEE PANEL SCHEDULE TRANSFORMER, DRY TYPE, RATINGS INDICATED, NEMA 1 ENCLOSURE (UNO).
COMPRESSOR COPPER DIRECT DIGITAL CONTROL	PROVIDE 4" CONCRETE HOUSE KEEPING PAD IF A FLOOR MOUNTED UNIT IS PROVIDED.
DIAMETER DOUBLE THROW SAFETY SWITCH DRAWING ENCLOSED	GROUND ROD, 3/4" X 10' COPPER CLAD. WHERE TWO RODS ARE INDICATED, SPACE A MINIMUM OF 22' APART.
S EMERGENCY RESPONDER COMMUNICATION COVERAGE SYSTEM ELECTRIC WATER COOLER G EXISTING	SEAL OFF FITTING ON CONDUIT FROM WET WELL TO PUMP CONTROL PANEL.
FIRE ALARM CONTROL PANEL FLEXIBLE METALLIC CONDUIT EQUIPMENT GROUND GROUNDING ELECTRODE CONDUCTOR	
GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT INTERRUPTER HORSEPOWER	HOMERUN DESIGNATION, #12 CONDUCTORS UNLESS NOTED OTHERWISE.
HEAT PUMP KILO (THOUSAND) LIGHT EMITTING DIODE LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT LIQUID-TIGHT FLEXIBLE NONMETALLIC CONDUIT	EQUIPMENT GROUND CONDUCTOR PHASE CONDUCTOR NEUTRAL CONDUCTOR
LIGHTING LIGHTS MAIN CIRCUIT BREAKER MAIN DISTRIBUTION PANEL	LETTER INDICATES ELEVATION OR DETAIL; NUMBER INDICATES PLAN OR SECTION SHEET NUMBER WHERE PLAN, SECTION,
MANUFACTURER MAIN LUG ONLY MOUNTED MOUNTING NOT APPLICABLE NORTH CAROLINA GENERAL STATUTES NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOC. NOT TO SCALE PHASE OR POLE	APPENDIX B, BUILDING CODE SUMMARY ELECTRICAL SUMMARY
PLUMBING CONTRACTOR PUMP CONTROL PANEL PHASE PANEL	METHOD OF COMPLIANCE -ENERGY CODE: PRESCRIPTIVE PERFORMANCE -ASHRAE 90.1: PRESCRIPTIVE PERFORMANCE
PERSONAL PROTECTIVE EQUIPMENT RECEPTACLE T RECEPTACLE REQUIRED RIGID GALVANIZED CONDUIT RIGID GALVANIZED STEEL	LIGHTING SCHEDULE Lamp Type Required in Fixtures Number of Lamps in Fixtures Ballast Types Used in Fixtures Number of Ballasts Used in Fixtures Total Wattage per Fixture
STAINLESS STEEL SYSTEM SOLID NEUTRAL TYPICAL	TOTAL WATTAGE SPECIFIED VERSUS ALLOWED Interior Specified: 16968 Watts Exterior Specified: 630 Watts Interior Allowed: 17514 Watts Exterior Allowed: 1006 Watts
UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE UNLESS OTHERWISE NOTED VOLTS VOLT-AMPS WATTS WIRE WITH	ADDITIONAL METHOD OF COMPLIANCE: C406.2 More Efficient HVAC Equipment Performance C406.3 Reduced Lighting Power Density C406.4 Enhanced Digital Lighting Controls C406.5 On-Site Renewable Energy C406.6 Dedicated Outdoor Air System C406.7 Reduced Energy Use in Service Water Heating
WEATHERPROOF TRANSFORMER	DESIGNER STATEMENT To the best of my knowledge and belief, the design of this building complies with the electrical systems and equipment requirements of the North Carolina State Building Code, Section 406 of the North Carolina Energy Conservation Code.
	SIGNED: NAME: Mark A. Ciarrocca, P.E.

TITLE: Engineer

RAC	EWAY	' SCHE	DULE								
	ЕМТ	RGS	RIGID AL	IMC	S.S.	PVC-40	PVC-80	FMC	LFMC	LFNC	NO
INDOORS	•	•	•		•	•			•	•	
EXPOSED, IN ELECTRICAL ROOMS	Х	Х	X	Х							Τ
EXPOSED, OUTSIDE ELEC RMS, HIGHER THAN 10' AFF	Х	Х	X	Х							
EXPOSED, OUTSIDE ELEC RMS, 10' AFF & LOWER		Х	X	Х							
EXPOSED, WET LOCATIONS		Х	X	Х							
CONCEALED, ABOVE CEILINGS	Х	Х	X	Х							
CONCEALED, IN GYPBOARD WALLS	Х	Х	X	Х							
CONCEALED, IN MASONRY WALLS					Х	Х	Х				
UNDERGROUND						Х	Х				1
CONNECTED TO VIBRATING EQUIPMENT, DRY LOCATIONS								Х	Х		
CONNECTED TO VIBRATING EQUIPMENT, WET LOCATIONS									Х		
GROUNDING ELECTRODE CONDUCTORS							Х				
OUTDOORS									,		-
EXPOSED		Х	X	Х	Х						
CONCEALED		Х	X	Х	Х						
UNDERGROUND, FEEDERS, OUTSIDE BUILDING FOOTPRINT						Х	Х				1,
UNDERGROUND, BRANCH CIRCUITS, OUTSIDE BUILDING FOOTPRINT						Х	Х				1
UNDERGROUND, LOW VOLTAGE, MAIN SERVICES, OUTSIDE BUILDING FOOTPRINT						Х	Х				1, 2
UNDERGROUND, LOW VOLTAGE, DEVICES, OUTSIDE BUILDING FOOTPRINT						Х	Х				1,
UNDERGROUND, FEEDERS, WITHIN BUILDING FOOTPRINT						Х	Х				1
UNDERGROUND, BRANCH CIRCUITS, WITHIN BUILDING FOOTPRINT						Х	Х				1
UNDERGROUND, LOW VOLTAGE, WITHIN BUILDING FOOTPRINT						Х	Х				1,
CONNECTED TO VIBRATING EQUIPMENT									Х		
GROUNDING ELECTRODE CONDUCTORS							Х				
NOTES											

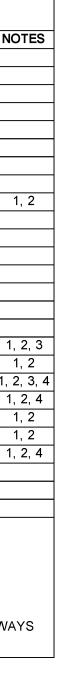
1. WHERE GREATER THAN 100', USE RIGID METAL ELBOWS & STUB-UPS.

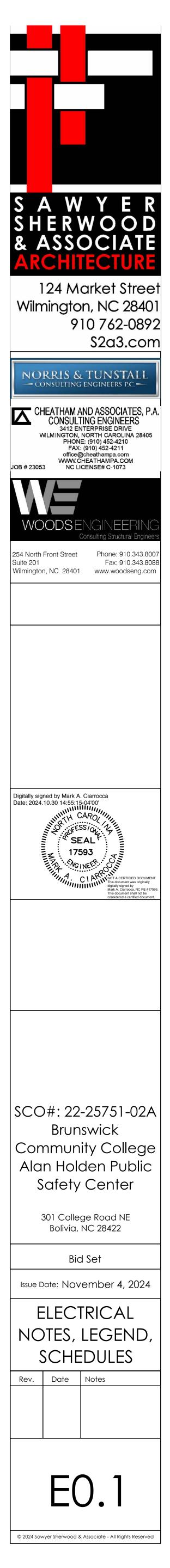
2. WHERE RIGID AL ELBOWS & STUB-UPS ARE IN CONTACT WITH CONCRETE OR SOIL, COAT WITH BITUMINOUS PAINT OR ASPHALTUM.

3. CONCRETE ENCASED. 4. USE WIDE SWEEP ELBOWS.

GENERAL NOTE: THE INTENT IS FOR RACEWAYS TO BE CONCEALED EXCEPT IN AREAS WITH OPEN STRUCTURE CONSTRUCTION. IN THOSE SPACES, COORDINATE RACEWAY PATHWAYS IN ADVANCE WITH THE ARCHITECT WITH THE GOAL OF THE LEAST VISIBILITY POSSIBLE.

ELECTRICAL LOAD SUMMARY CONN KVA CALC KVA CONN KVA CALC KVA LIGHTING (125%) KITCHEN EQUIPMENT 18.5 23.1 (100%) LARGEST MOTOR 12.5 3.12 (25%) CONTINUOUS 3.75 (125%) NONCONTINUOUS MOTORS 238 238 (100%) 20 20 (100%) RECEPTACLES 48.3 (50%>10) (100%) 29.2 196 196 HEATING DIVERSE 29.4 (0%) 0 TOTAL LOAD 516 BALANCED 3-PHASE LOAD 620 A





SYMBOL	DESCRIPTION	MOUNTING
B	24V ELECTRIC ALARM BELL	WALL; WEATHERPROOF
со	CARBON MONOXIDE DETECTOR	
СМ	CONTROL / RELAY MODULE	
см BAS	CONTROL / RELAY MODULE FOR BAS	
0	DUCT DETECTOR - PROVIDED BY FIRE ALARM CONTRACTOR	BY MECH CONTRACTOR
ERCCS	EMERGENCY RESPONDER COMMUNICATON COVERAGE SYSTEM	WALL
ERCCS-RA	EMERGENCY RESPONDER COMMUNICATION COVERAGE SYSTEM REMOTE ANNUNCIATOR	WALL
FACP	FIRE ALARM PANEL	WALL
MM FS	MONITOR MODULE FOR FLOW SWITCH	
MM TS	MONITOR MODULE FOR TAMPER SWITCH	
MMISS	MONITOR MODULE WITH SURGE SUPPRESSOR FOR CONNECTION OF EXTERNAL CIRCUITRY	
ММ	MONITOR MODULE FOR MONITORING A DRY CONTACT CLOSURE DEVICE	
PIV	POST INDICATOR VALVE TAMPER SWITCH	
F	PULL STATION	WALL
RA	REMOTE ANNUNCIATOR FOR FACP	WALL
®	REMOTE INDICATOR WITH TEST SWITCH FOR DUCT DETECTOR	CEILING / WALL
S	SMOKE DETECTOR	CEILING
TS	TAMPER SWITCH	
FIRE LEGE	CALARM NOTIFICA CND	ATION
SYMBOL	DESCRIPTION	MOUNTING
@ 15	HORN/STROBE, 15 CANDELA	CEILING
(F) 30	HORN/STROBE, 30 CANDELA	CEILING
F 75	HORN/STROBE, 75 CANDELA	CEILING
(F) 95	HORN/STROBE, 95 CANDELA	CEILING
S	STROBE, 15 CANDELA	CEILING
15		CEILING
	STROBE, 30 CANDELA	
15 (5)	STROBE, 30 CANDELA HORN/STROBE, 15 CANDELA	WALL
15 ⑤ 30		WALL
15 30 F⊲ 15 F⊲	HORN/STROBE, 15 CANDELA	

SECURITY	INFRASTRUCTURE

SYMBOL	DESCRIPTION	MOUNTING	
C	SECURITY CAMERA, INFRASTRUCTURE	COORDINATE EXACT MTG HEIGHT WITH ARCHTIECT.	INSTALL (1) CAT AT EXTERIOR LOO CABLE FROM PUL WALL. COIL 10' C INDICATED.
CR	CARD READER, INFRASTRUCTURE	WALL, MTD 42" AFF.	4" SQUARE BOX READER; STUB 3 BLANK PLATE
•	DOOR SWITCH / CONTACT	RECESSED, FOR INTERIOR LOCATIONS THAT ARE OPEN TO STRUCTURE, MOUNT 4" SQUARE BOX ON STRUCTURE 15' AFF.	INSTALL 1/2" FLE CONCEALED IN DO ABOVE CEILING.
ES	ELECTRIC STRIKE, INFRASTRUCTURE		FOR SINGLE DOOF CONDUIT CONCEA BOX MTD ABOVE
K	KEYPAD	WALL, MTD 42" AFF.	PROVIDE 3/4"C
∞->	MOTION DETECTOR, CORRIDOR COVERAGE	SURFACE – CEILING / WALL, COORDINATE EXACT MTG HEIGHT WITH ARCHITECT.	FOR WALL MOUN RECESSED; STUB CORRIDOR.

NOTES CAT 6 CABLE TO I.T. 301 DATA RACK. LOCATIONS ANCHOR CABLE TO PREVENT PULLING BACK THROUGH EXTERIOR O' CABLE SLACK AT LOCATION

DX RECESSED FOR FUTURE CARD 3 3/4"C TO 6" ABOVE CEILING. PROVIDE

FLEXIBLE METALLIC CONDUIT DOOR FRAME TO JUNCTION BOX MTD

OOR, PROVIDE 1/2" FLEXIBLE METALLIC CEALED IN DOOR FRAME TO JUNCTION OVE CEILING.

C TO 6" ABOVE CEILING.

DUNT, PROVIDE 4" SQUARE BOX TUB 3/4"C TO CABLE TRAY IN

DATA	& TELEPH	ONE OUTLET LEGEND						
SYMBOL	DESCRIPTION	MOUNTING	NOTES					
⊲ _{TV}	TV OUTLET	WALL, LOCATED BEHIND TV MOUNT IN RECESSED LCD OUTLET BOX (COORDINATE SPECIFIC LOCATION AND MOUNTING HEIGHT WITH OWNER/ARCHITECT).	SEE POWER PLANS FOR SHARED BOX WITH POWER OUTLET. DESIGN BASIS ARLINGTON #TVBS613 WITH COVER.					
● AP	DATA OUTLET FOR ACCESS POINT	4" SQUARE BOX MOUNTED 24" ABOVE CEILING; IF WALL MOUNTING INDICATED, MOUNT AT 12'-0" AFF.	INSTALL (1) CAT 6A CABLE TO IT ROOM. MOUNT OWNER PROVIDED EQUIPMENT AT CEILING OR WALL MOUNTED IF INDICATED. PROVIDE PATCH CORD FROM OUTLET TO EQUIPMENT.					
⊲ BAS	DATA OUTLET FOR BAS	WALL, 42" AFF UNO; 5" SQUARE, 2.875" DEEP BOX, 64 CUBIC INCHES, WITH CABLE MANAGEMENT POSTS. DESIGN BASIS: STEEL CITY #82181T SERIES	STUB 1"C TO 6" ABOVE CEILING, FOR INTERIOR LOCATIONS THAT ARE OPEN TO STRUCTURE, STUB UP TO MOUNTED 4" SQUARE BOX ON STRUCTURE. INSTALL (2) CAT 6 CABLES TO IT 301; OTHERWISE, # INDICATES QUANTITY OF CABLES IF > 2					
4	DATA / TELEPHONE OUTLET	WALL, 18" AFF UNO; 5" SQUARE, 2.875" DEEP BOX, 64 CUBIC INCHES, WITH CABLE MANAGEMENT POSTS. DESIGN BASIS: STEEL CITY #82181T SERIES	STUB 1"C TO 6" ABOVE CEILING INSTALL (2) CAT 6 CABLES TO IT 301; OTHERWISE, # INDICATES QUANTITY OF CABLES IF > 2					
===	2 POST EQUIPMENT RACK, 19"X 7'	FLOOR						
Ø	DATA / TELEPHONE OUTLET	FLOOR, INTEGRAL TO POWER FLOOR BOX WITH DIVIDER SEPARATING POWER & COMMUNICATIONS	ROUTE (2) 1" C UNDERGROUND, TURN UP INTO WALL CAVITY, & STUB UP TO 6" ABOVE CEILING INSTALL (2) CAT 6 CABLES TO IT ROOM; OTHERWISE, # INDICATES QUANTITY OF CABLES IF > 2					
◄	TELEPHONE OUTLET	FOR INTERIOR LOCATIONS THAT ARE OPEN TO STRUCTURE, MOUNT 4" SQUARE BOX ON STRUCTURE. 4" SQUARE, DEEP BOX	STUB 1"C TO 6" ABOVE CEILING INSTALL TELEPHONE CABLE TO IT ROOM; OTHERWISE, # INDICATES QUANTITY OF CABLES IF > 1					
⋖ FA	COMMUNICATIONS OUTLET FOR FIRE ALARM SYSTEM	WALL	ROUTE CONDUITS DIRECTLY INTO FIRE ALARM SYSTEM ENCLOSURE. 3/4"C FOR (2) CAT 6 NETWORK CABLE					

SWITCH LEGEND

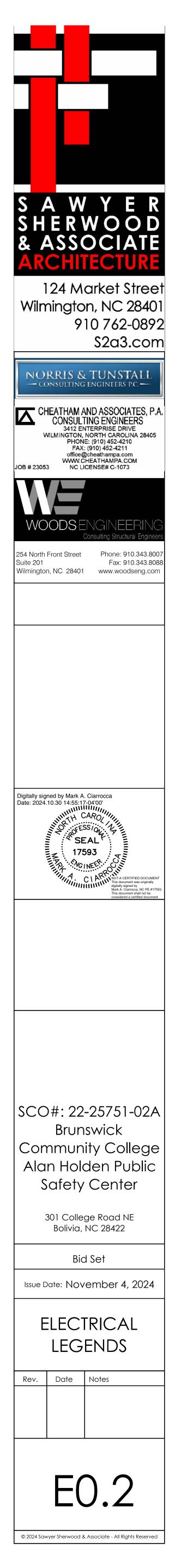
SYMBOL	DESCRIPTION	NOTES
\$ _D	DIMMER SWITCH	RATED FOR VOLTAGE WHERE APPLIED, 1200W; MTD 42" AFF UNO
\$ _{D3}	DIMMER SWITCH FOR 3-WAY CONTROL	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO
\$ OD	OCCUPANCY SENSOR WALL SWITCH, DIMMER; DUAL TECHNOLOGY	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO
\$ 01	OCCUPANCY SENSOR WALL SWITCH, SINGLE CKT, DUAL TECHNOLOGY	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO
ø	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL MTD @ 10' AFF UNO	INCORPORATE POWER PACK FOR CIRCUITRY SWITCHING, SEE WIRING DIAGRAMS
©§	OCCUPANCY SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY; CEILING MTD	INCORPORATE POWER PACK FOR CIRCUITRY SWITCHING, SEE WIRING DIAGRAMS
®	PHOTOCELL, EXTERIOR	MOUNT ON NORTH FACE OF BLDG, FACING NORTH
\$	TOGGLE SWITCH, SINGLE POLE	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO; WHERE SHOWN PAIRED, PROVIDE DUAL LEVEL LIGHTING WHERE INDICATED. WHERE USED AS AN EQUIPMENT DISCONNECT, PROVIDE LOCKABLE TYPE COVER.
\$_3	3-WAY SWITCH	RATED FOR VOLTAGE WHERE APPLIED, 20A; MTD 42" AFF UNO

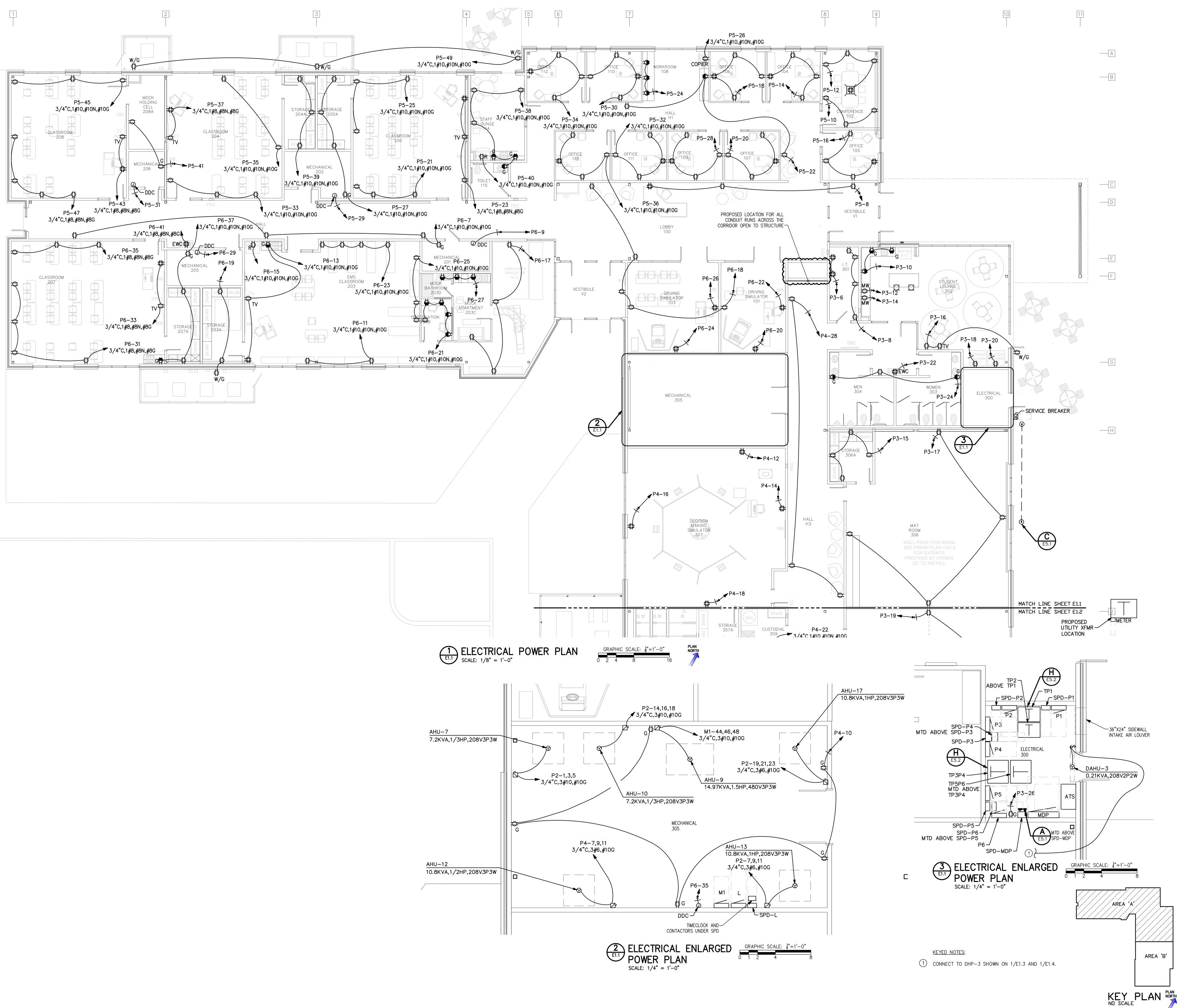
LUMINAIRE SCHEDULE

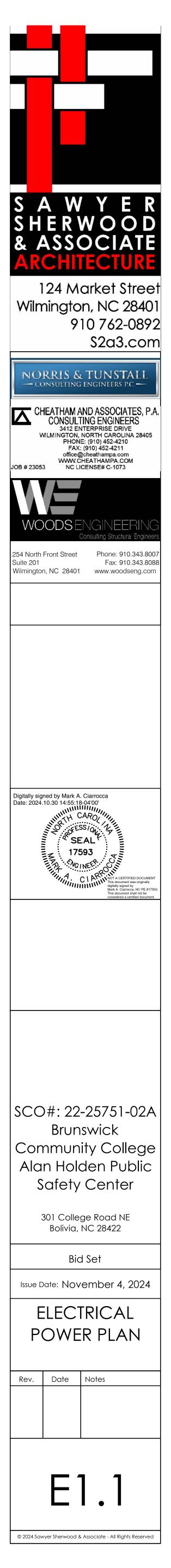
CALLOUT	SYMBOL	DESCRIPTION	LAMP	BALLAST	VOLTS	MOUNTING	MANUFACTURER / MODEL	NOTES	CALLO
BL		2x4, ARCHITECTURAL LENSED, INDIRECT	(1) 44W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	COLUMBIA #LCAT SERIES DAYBRITE #FGX SERIES METALUX #24CZ SERIES	4300 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. SMOOTH, ROUND LENSE.	BL
ВМ		2x4, ARCHITECTURAL LENSED, INDIRECT	(1) 56W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	COLUMBIA #LCAT SERIES DAYBRITE #FGX SERIES METALUX #24CZ SERIES	5300 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. SMOOTH, ROUND LENSE.	BM
D1		8' DIRECT PENDANT	(1) 65W LED	LED DIMMABLE DRIVER	277V 1P 2W	PENDANT; MTD FLUSH WITH WOOD SLAT CEILING 11' AFF	ALW #HB1.25 SERIES METALUMEN #RAIL 1 SERIES AXIS LIGHTING #SLATE 1 SERIES	4800 NOMINAL LUMENS PER 8 FOOT. 4000K COLOR TEMPERATURE. FLUSH, CLEAR LENSE. FINISH SELECTION BY ARCHITECT.	D1
D2	6	4' DIRECT/INDIRECT PENDANT	(1) 66W LED	LED DIMMABLE DRIVER	277V 1P 2W	PENDANT; MTD 11' AFF	FINELITE #HP-4 SERIES LEDALITE #TRUGROOVE SERIES NEO-RAY #DEFINE 4 SERIES	5200 NOMINAL LUMENS PER 4 FOOT. 70/30 DIRECT/INDIRECT RATIO. 4000K COLOR TEMPERATURE. FLUSH, CLEAR LENSE. FINISH SELECTION BY ARCHITECT.	D2
)3		10' DIRECT/INDIRECT PENDANT	(1) 105W LED	LED DIMMABLE DRIVER	277V 1P 2W	PENDANT; MTD 16' AFF	FINELITE #HP-4 SERIES LITECONTROL #4L-P SERIES AXIS LIGHTING #BEAM 4 SERIES	12000 NOMINAL LUMENS PER 10 FOOT. 70/30 DIRECT/INDIRECT RATIO. 4000K COLOR TEMPERATURE. FLUSH, CLEAR LENSE. FINISH SELECTION BY ARCHITECT.	D3
)4	0	4' DIRECT/INDIRECT PENDANT	(1) 28W LED	LED DIMMABLE DRIVER	277V 1P 2W	PENDANT; MTD XX' AFF	JESCO LIGHTING #LIN-DI SERIES FINELITE #HP-2 SERIES AXIS LIGHTING #BEAM 2 SERIES	3200 NOMINAL LUMENS PER 4 FOOT. 60/40 DIRECT/INDIRECT RATIO. 4000K COLOR TEMPERATURE. FLUSH, CLEAR LENSE. FINISH SELECTION BY ARCHITECT.	D4
IG	D,	EMERGENCY EGRESS, BATTERY	(2) 7W MR 16 LED	BATTERY	277V 1P 2W	WALL; MTD 8'-0" AFF	EMERGILITE #COMPACT PREMIER SERIES BEGHELLI #ECCO LUNA LED SERIES LIGHTALARMS #COMPACT GRANDE SERIES	CONNECT TO NEAREST UNSWITCHED LIGHT CIRCUIT IN SAME SPACE. THESE FIXTURES ARE NOT TAGGED WITH "EG" ON THE DRAWINGS; ONLY THE SYMBOL IS USED. DESIGN CRITERIA: 70 FT SPACING, UTILIZING 6 FT WIDE PATH, 80/50/20 REFLECTANCES, MAINTAINING 1 FC AVG AND 0.2 FC MININUM.	EG
H	0	4' GASKETED LED	(1) 92W LED	LED DRIVER	277V 1P 2W	PENDANT; BOTTOM OF FIXTURE MTG HEIGHT INDICATED ON SHEET E1.6.	COLUMBIA #LXEM SERIES METALUX #VT2 LED SERIES WILLIAMS #96 SERIES	10,000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. COORDINATE LOCATION & HEIGHT TO MINIMIZE INTERFERENCES WITH RADIANT HEATER AND CORD REELS.	GH
L	0	4' GASKETED LED	(1) 25W LED	LED DRIVER	277V 1P 2W	SURFACE	COLUMBIA #LXEM SERIES METALUX #VT2 SERIES WILLIAMS #96 SERIES	3000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. STAINLESS STEEL MOUNTING HARDWARE & LENS CLAMPS.	; GL
Λ	ю——-	4' INDUSTRIAL	(1) 55W LED	LED DRIVER	277V 1P 2W	PENDANT/SURFACE, MTD 10' AFF	COLUMBIA #LCL SERIES DAYBRITE #FSS SERIES METALUX #SNLED SERIES	5300 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. WIRE GUARD. FROSTED LENS.	IM
/2		INVERTER, EGRESS LIGHTING	N/A	BATTERY	277V 1P 2W	SURFACE	EMERGI-LITE #EMIU SERIES BODINE #ELI-S SERIES LIGHTALARMS #LMIU SERIES	INVERTER FOR BATTERY BACKUP OF EGRESS LIGHTING; 250W FOR 90 MINUTES (MINIMUM). INCLUDE SELF-DIAGNOSTIC OPTION. LOCATE ABOVE CEILING - PROVIDE "LIGHTING INVERTER" LABEL ON CEILING GRID BELOW INSTALLED LOCATION. STANDARD LIGHTING CONTROL OVERRIDE FOR 0-10V DIMMING SYSTEM.	IV2
6	o	6" RECESSED CAN	(1) 20W LED	LED DIMMABLE DRIVER	277V 1P 2W	RECESSED	MODULYTE #M6R SERIES PRESCOLITE #LF6LED SERIES PORTFOLIO #LD6C SERIES	2000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. SELF-FLANGED LENSED REFLECTOR TRIM; LOW IRIDESCENT CLEAR FINISH.	R6
6S	o	6" RECESSED CAN, SHOWER LIGHT	(1) 14W LED	ELECTRONIC	277V 1P 2W	RECESSED	MODULYTE #M6R SERIES PRESCOLITE #LF6LED SERIES PORTFOLIO #LD6C SERIES	WET LOCATION LISTED. 1000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. SELF-FLANGED LENSED REFLECTOR TRIM; LOW IRIDESCENT CLEAR FINISH.	R6S
6X	o	6" RECESSED CAN, EXTERIOR	(1) 18W LED	LED DRIVER	277V 1P 2W	RECESSED	MODULYTE #M6R SERIES PRESCOLITE #LF6LED SERIES PORTFOLIO #LD6C SERIES	DAMP LOCATION, 2000 NOMINAL LUMENS. 4000K COLOR TEMP; SELF-FLANGED OPEN REFLECTOR TRIM, LOW IRIDESCENT CLEAR FINISH. IC RATED, AIRTIGHT CONSTRUCTION, GASKET BETWEEN FIXTURE & SOFFIT; SEE SPECIFICATIONS FOR ENERGY CODE REQUIREMENTS.	R6X
6XE	o	6" RECESSED CAN, EXTERIOR, EGRESS	(1) 18W LED	LED DRIVER	277V 1P 2W	RECESSED	MODULYTE #M6R SERIES PRESCOLITE #LF6LED SERIES PORTFOLIO #LD6C SERIES	DAMP LOCATION, 2000 NOMINAL LUMENS. 4000K COLOR TEMP; SELF-FLANGED OPEN REFLECTOR TRIM, LOW IRIDESCENT CLEAR FINISH. IC RATED, AIRTIGHT CONSTRUCTION, GASKET BETWEEN FIXTURE & SOFFIT; SEE SPECIFICATIONS FOR ENERGY CODE REQUIREMENTS.	R6XE
1	Ŀ	TRAPEZOID WALL PACK	(1) 27W LED	LED DRIVER	277V 1P 2W	WALL, MTD 12' AFG	HUBBELL #RDI2 SERIES GARDCO #104L SERIES PRE-APPROVED EQUIVALENT	3000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. TYPE IV DISTRIBUTION. FINISH SELECTION BY ARCHITECT.	W
В	₽	TRAPEZOID WALL PACK, EGRESS, BATTERY	(1) 27W LED (1) 27W LED	LED DRIVER LED DRIVER	277V 1P 2W	WALL, MTD 12' AFG	HUBBELL #RDI2 SERIES GARDCO #101L SERIES PRE-APPROVED EQUIVALENT	3000 NOMINAL LUMENS. 4000K COLOR TEMPERATURE. TYPE IV DISTRIBUTION. DUAL LED DRIVERS AND DUAL LED ARRAYS FOR EGRESS REQUIREMENTS. INTEGRAL BATTERY BACKUP. INTEGRAL PHOTOCELL, FINISH SELECTION BY ARCHITECT.	WB
vw		RECESSED WALL WASH	(1) 18W LED	LED DRIVER	277V 1P 2W	RECESSED	PINNACLE #EDGE SERIES AXIS LIGHTING #WALL WASH PERFEKT SERIES FINELITE #HP-2 SERIES	1500 NOMINAL LUMENS PER 4 FOOT. 4000K COLOR TEMPERATURE. SEE PLAN FOR OVERALL LENGTHS.	ww
(\otimes	EXIT SIGN, BATTERY BACKUP	(2) 1W LED	BATTERY	277V 1P 2W	UNIVERSAL	EMERGI-LITE #PRESTIGE ECONOMIZER SERIES MULE LIGHTING #PVT SERIES LIGHTALARMS #EUX SERIES	CONNECT TO NEAREST UNSWITCHED LIGHT CIRCUIT IN SAME SPACE. THESE FIXTURES ARE NOT TAGGED WITH "X" ON THE DRAWINGS; ONLY THE SYMBOL IS USED.	X

IRING DIAGRAMS RING DIAGRAMS

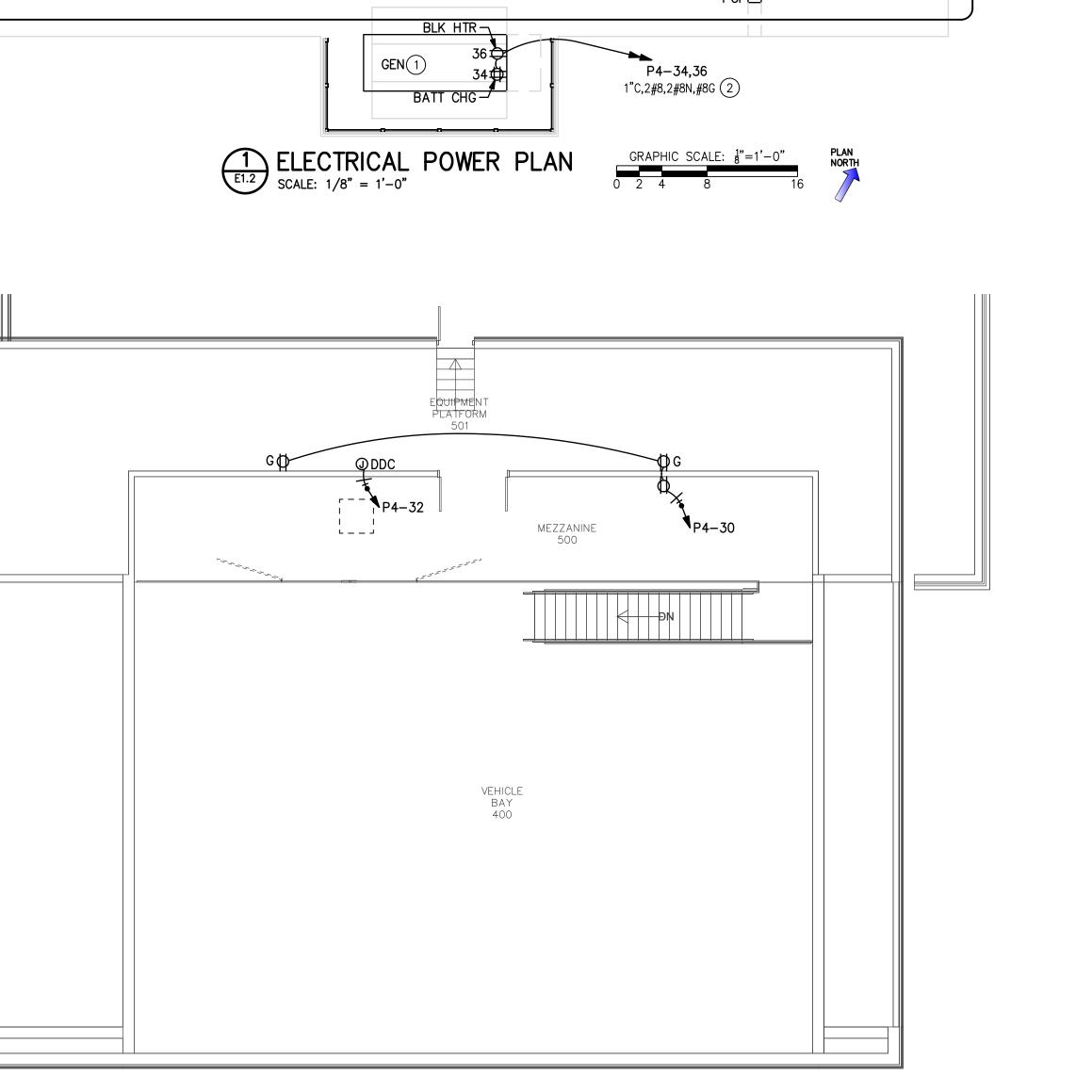
SYMBOL	NEMA	VOLTS	DESCRIPTION
\$	5-20R	120V 1P 2W	DUPLEX, MTD 18" AFF UNO
	5-20R	120V 1P 2W	POWER FOR GENERATOR BLOCK HEATER
	5-20R	120V 1P 2W	DUPLEX FOR COPIER, MTD 18" AFF UNO
4	5-20R	120V 1P 2W	DUPLEX, MTD 6" ABOVE COUNTER OR 6" ABOVE BACKSPLASH IF APPLICABLE. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL BACKSPLASH DETAILS.
G	5-20R	120V 1P 2W	DUPLEX GFCI, MTD 6" ABOVE COUNTER OR 6" ABOVE BACKSPLASH IF APPLICABLE. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL BACKSPLASH DETAILS.
⊕ ₩/G	5-20R	120V 1P 2W	DUPLEX GFCI, MTD 18" AFG UNO; LISTED WEATHER-RESISTANT TYPE; PROVIDE CAST ALUMINUM WEATHERPROOF IN-USE COVER WITH CAST ALUMINUM FD WEATHERPROOF BOX
₽ _C	5-20R	120V 1P 2W	DUPLEX GFCI, MTD 18" AFF UNO
ФНВ	5-20R	120V 1P 2W	DUPLEX FOR HOT BOX HEATER; LISTED WEATHER-RESISTANT TYPE; PROVIDE CAST ALUMINUM WEATHERPROOF IN-USE COVER WITH CAST ALUMINUM FD WEATHERPROOF BOX. COORDINATE MTG HEIGHT WITH ENCLOSURE PROVIDED; SUPPLY FROM GFEP C/B (30mA).
÷ MW	5-20R	120V 1P 2W	DUPLEX GFCI FOR MICROWAVE; VERIFY MICROWAVE TYPE; MOUNT 6" ABOVE COUNTER HEIGHT FOR COUNTER TOP MICROWAVE -OR- MOUNT FLUSH IN BACK OF UPPER CABINET FOR SUSPENDED MICROWAVE.
₽ R	5-20R	120V 1P 2W	DUPLEX FOR REFRIGERATOR; MOUNT 48" AFF UNO. SUPPLY FROM GFCI TYPE C/
⊕ TV	5–20R	120V 1P 2W	DUPLEX, LOCATED BEHIND TV MOUNT IN RECESSED LCD OUTLET BOX (COORDINA SPECIFIC LOCATION WITH OWNER/ARCHITECT). SEE AUXILIARY SYSTEMS PLANS FO SHARED BOX WITH DATA OUTLET. DESIGN BASIS ARLINGTON #TVBS613 WITH COVER. MTD 66" AFF UNO.
₽w	5-20R	120V 1P 2W	DUPLEX FOR WASHER, MTD 30" AFF UNO
U DDC		120V 1P 2W	J-BOX ABOVE CLG LEVEL FOR DDC OR MECHANICAL CONTROL POWER SOURCE
DISP LTS		120V 1P 2W	POWER FOR DISPLAY CASE LIGHTING; CONNECT THROUGH TOGGLE SWITCH FOR ON/OFF CONTROL
0 ERCCS		120V 1P 2W	POWER FOR EMERGENCY RESPONDER COMMUNICATION COVERAGE SYSTEM
0 FACP		120V 1P 2W	POWER FOR FIRE ALARM CONTROL PANEL
0 s		120V 1P 2W	POWER FOR LIGHTED SIGN; COORDINATE CONNECTION REQUIREMENTS WITH SIGN PROVIDED. COORDINATE LOCATION WITH ARCHITECT
₽	5-20R	120V 1P 2W	QUAD, MTD 18" AFF UNO
BATT CHG	5-20R	120V 1P 2W	POWER FOR GENERATOR BATTERY CHARGER, BATTERY HEATER, & WINDING HEATER
⊕ EWC	5-20R	120V 1P 2W	QUAD FOR ELECTRIC WATER COOLER OUTLET; COORDINATE MTG LOCATION TO CONCEAL OUTLET WHEN COOLER IS INSTALLED; SUPPLY FROM GFCI TYPE C/B.
Þ	5-20R	120V 1P 2W	QUAD, MTD IN FLUSH FLOOR BOX; SEE AUX SYS PLANS FOR SHARED BOX; PROVIDE DIVIDER FOR POWER SEPARATION FROM VOICE/DATA
© D	14-30R	208/120V 2P 3W	DRYER OUTLET; SUPPLY FROM GFCI TYPE C/B, MTD 30" AFF UNO; CONFIRM WIT ARCH.
F		277V 1P 2W	EXHAUST FAN; SEE MECHANICAL SCHEDULE.

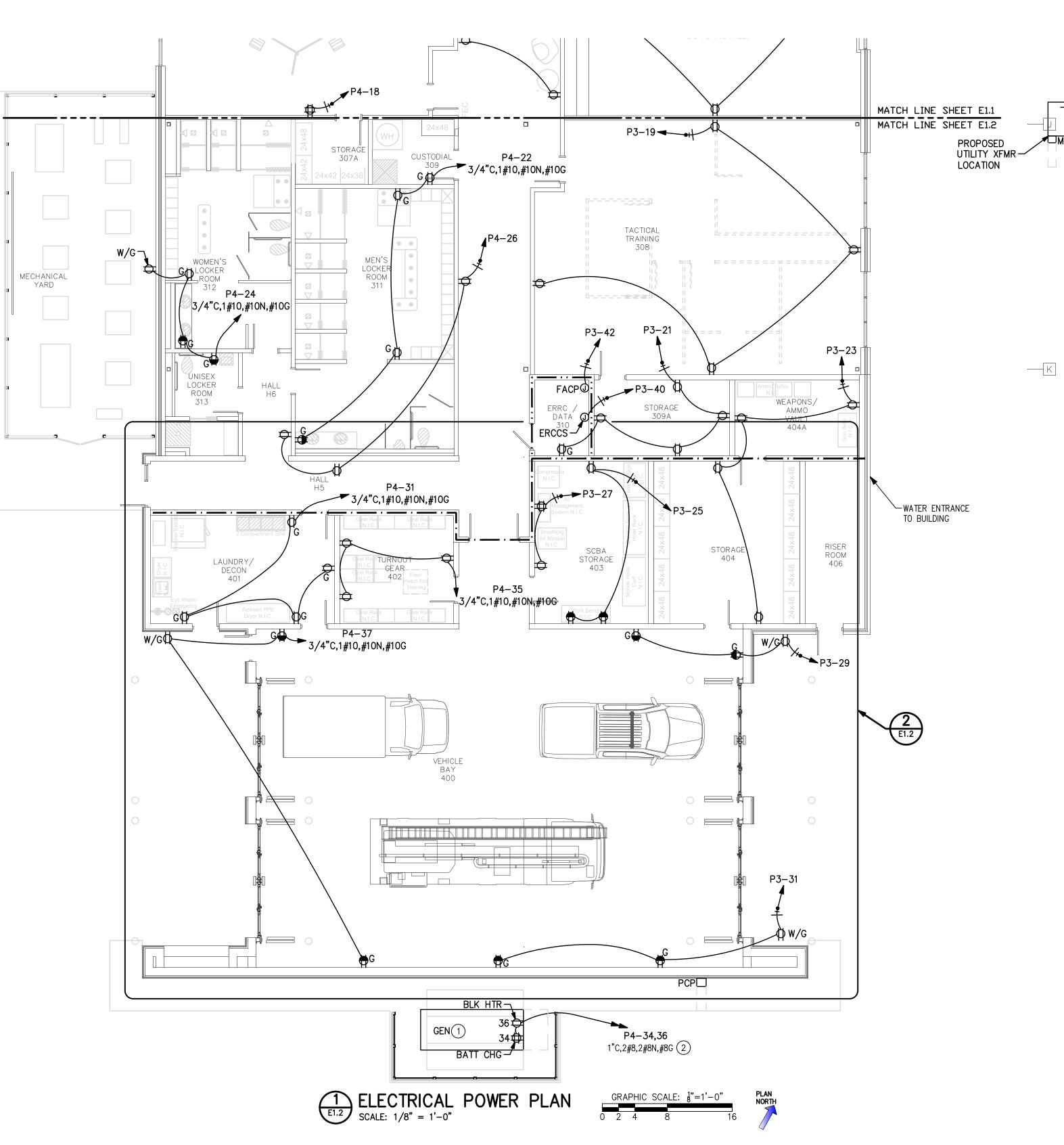






 $\begin{array}{c} 2\\ \hline E1.2\\ \hline SCALE: 1/8" = 1'-0" \end{array} \qquad MEZZANINE PLAN \qquad \begin{array}{c} GRAPHIC SCALE: \frac{1}{8}"=1'-0" \\ \hline 0 & 2 & 4 & 8 & 16 \end{array}$





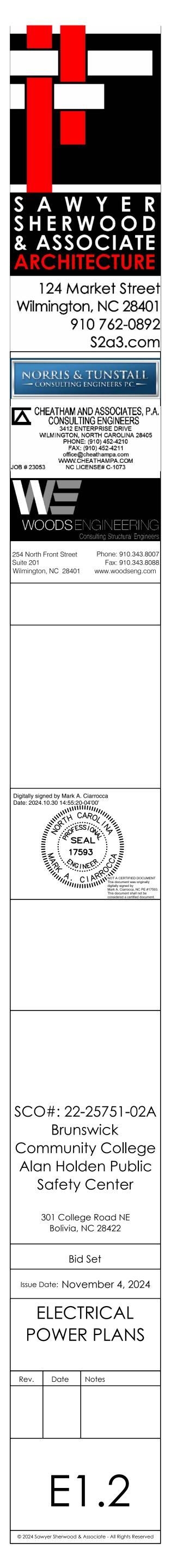
MECHANICAL YARD

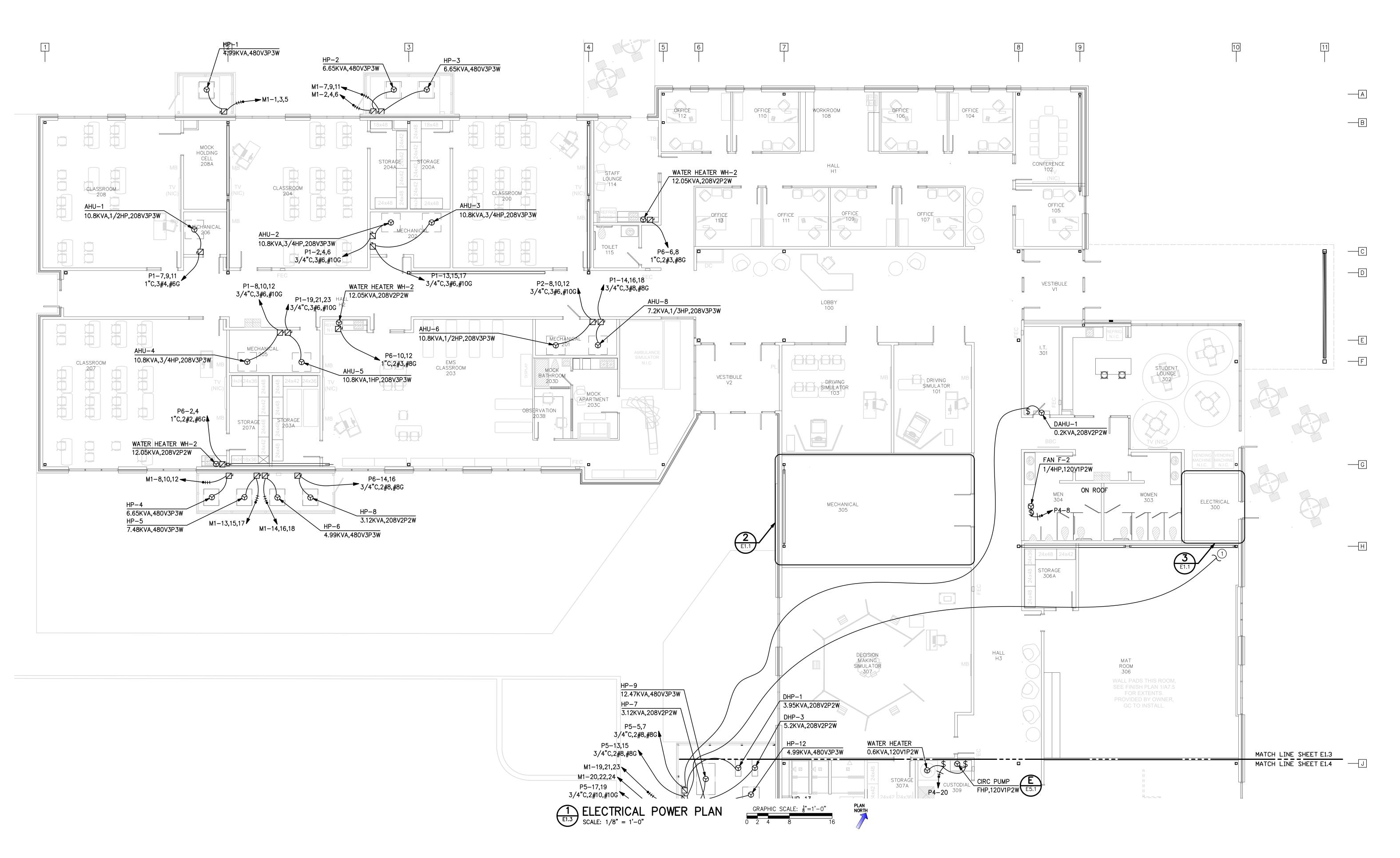
Ţ.

AREA 'A' ∕ARĘA 'B KEY PLAN

BASE BID: PROVIDE (2) SPARE 1"C FOR FUTURE BLOCK HEATER, BATTERY CHARGER, AND START/STOP CIRCUITRY. ALT. G-10: PROVIDE CONDUIT AND CIRCUITRY FOR BLOCK HEATER AND BATTERY CHARGER

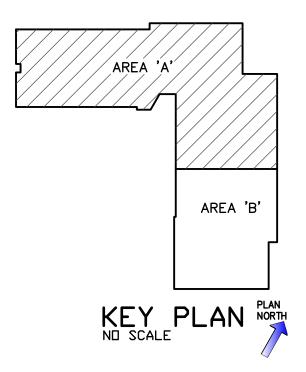
KEYED NOTES: 1 PROVIDE GENERATOR FOR ALT. G-10.

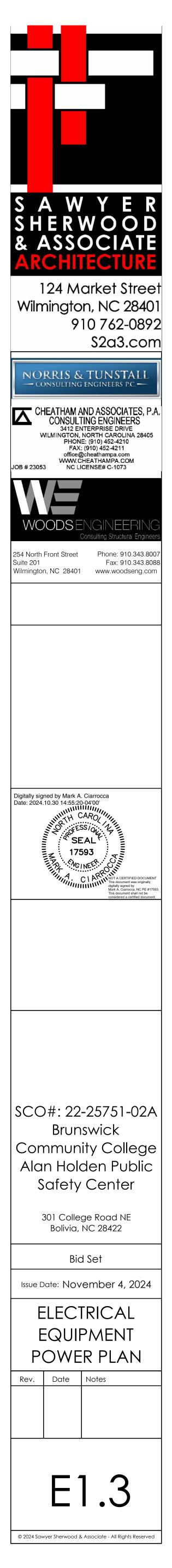


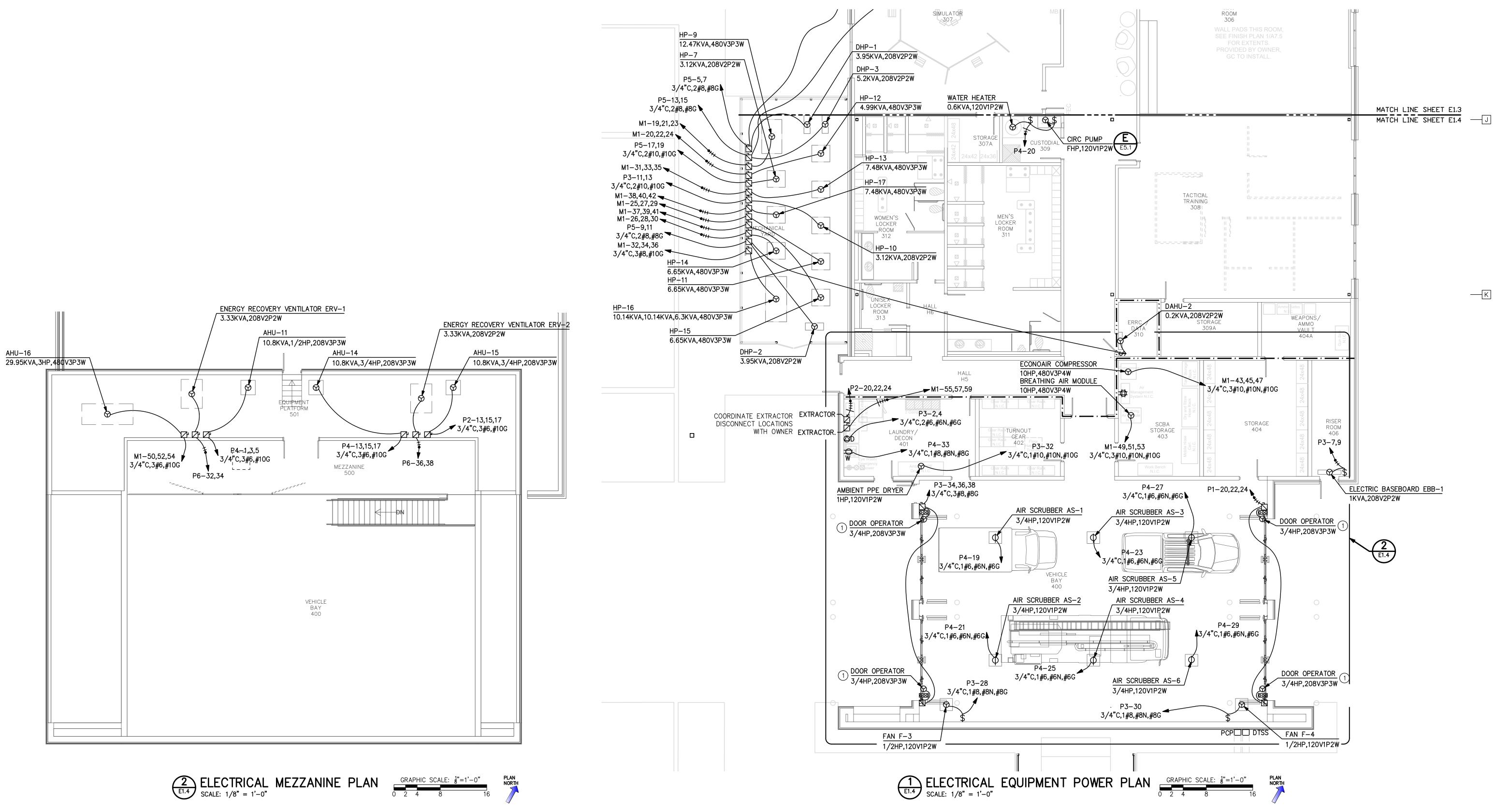


KEYED NOTES:

() CONNECTED TO DAHU-3 IN ELECTRICAL ROOM 300 AS SHOWN ON 3/E1.1.



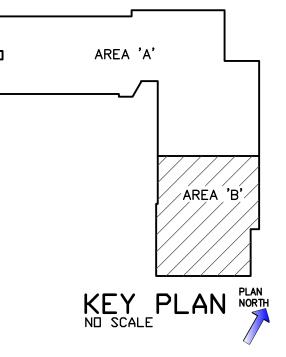


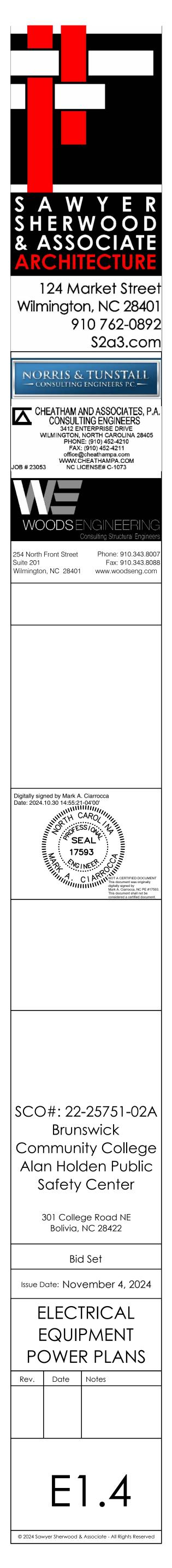


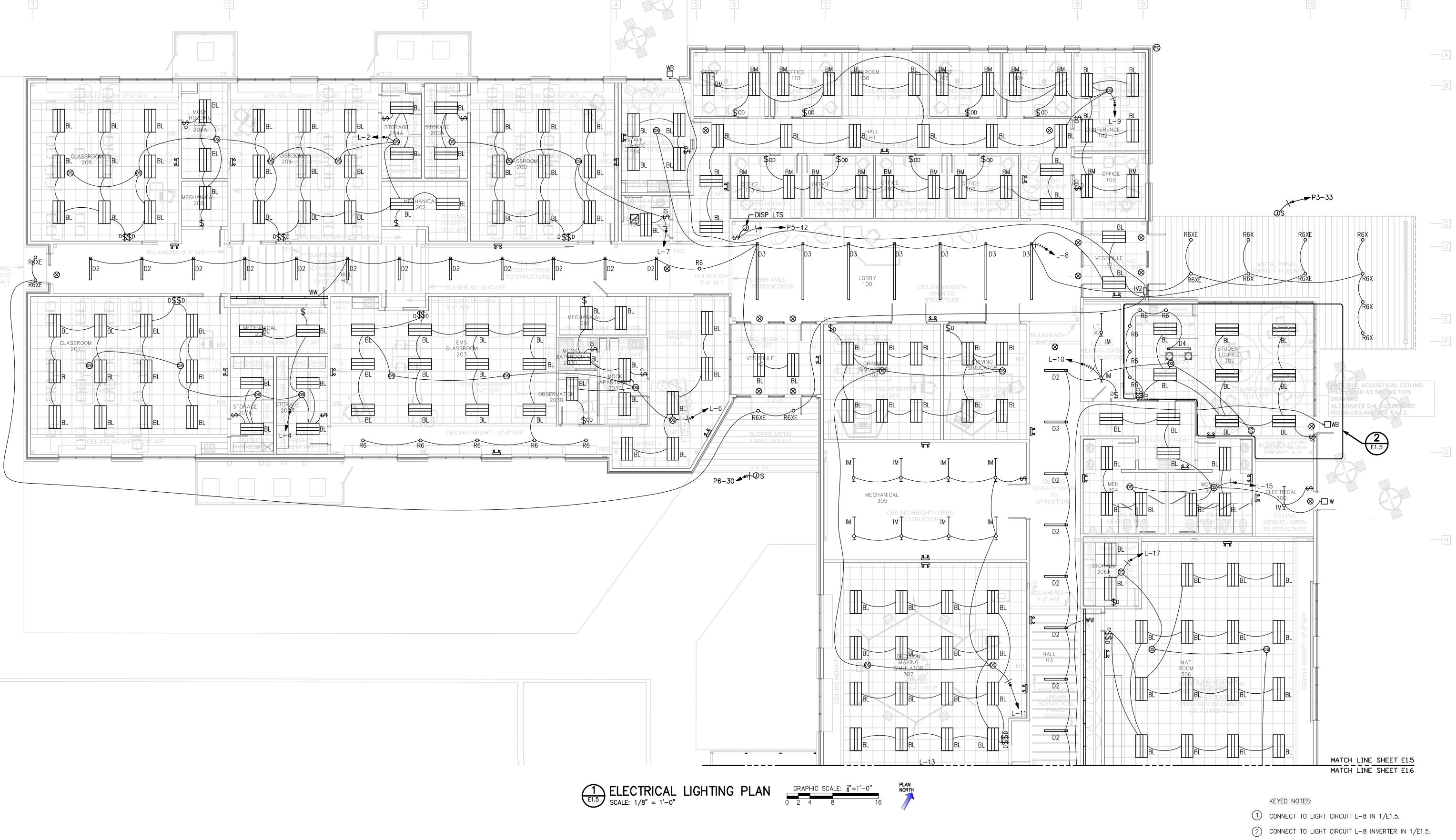
<u>KEYED NOTES:</u>

(1) CONTRACTOR TO COORDINATE WITH THE INSTALLER/VENDOR AND INSTALL DOOR ACCESSORY COMPONENTS AND ASSOCIATED CIRCUITRY AS INDICATED BUT NOT LIMITED TO THE BELOW ITEMS:

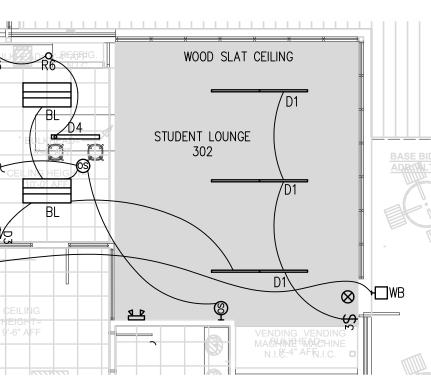
- NEMA PUSHBUTTONS ENCLOSURES (INTERIOR) FOR EACH DOOR WITH THREE
- PUSH-BUTTONS MARKED "OPEN", "CLOSED" AND "STOP".
 LIMIT SWITCHES SHALL BE PROVIDED TO STOP THE TRAVEL OF THE DOOR IN ITS FULLY OPEN OR FULLY CLOSED POSITION.
- ELECTRIC SAFETY EDGES ON LEADING EDGE OF ALL DOORS TO REVERSE
 DOOR UPON CONTACT WITH OBSTRUCTION.
- PROVIDE (1) NEMA 4 EXTERIOR, JAMB MOUNTED, LIGHT CURTAIN TYPE
- PHOTO EYES. • PROVIDE (1) INTERIOR, OVERHEAD MOUNTED PRESSURE SENSOR BEA IS40P
- OR EQUAL. • PROVIDE (1) RADIO RECEIVER AND (1) SINGLE BUTTON REMOTES PER DOOR. REMOTES TO OPEN AND CLOSE DOOR WITH A SINGLE BUTTON.
- PROVIDE WARNING LIGHT AND STROBE.

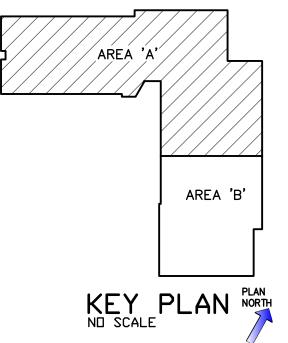


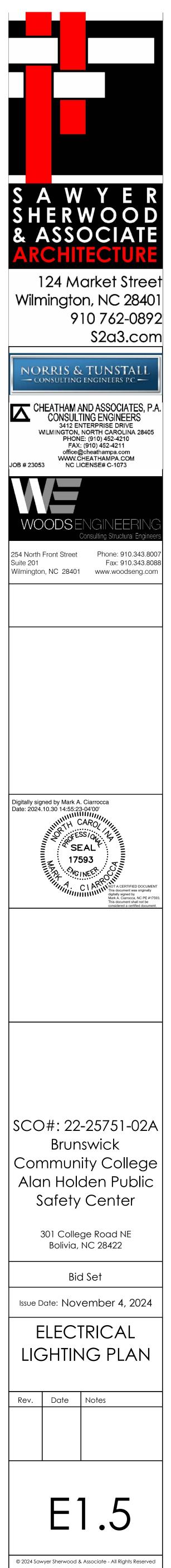


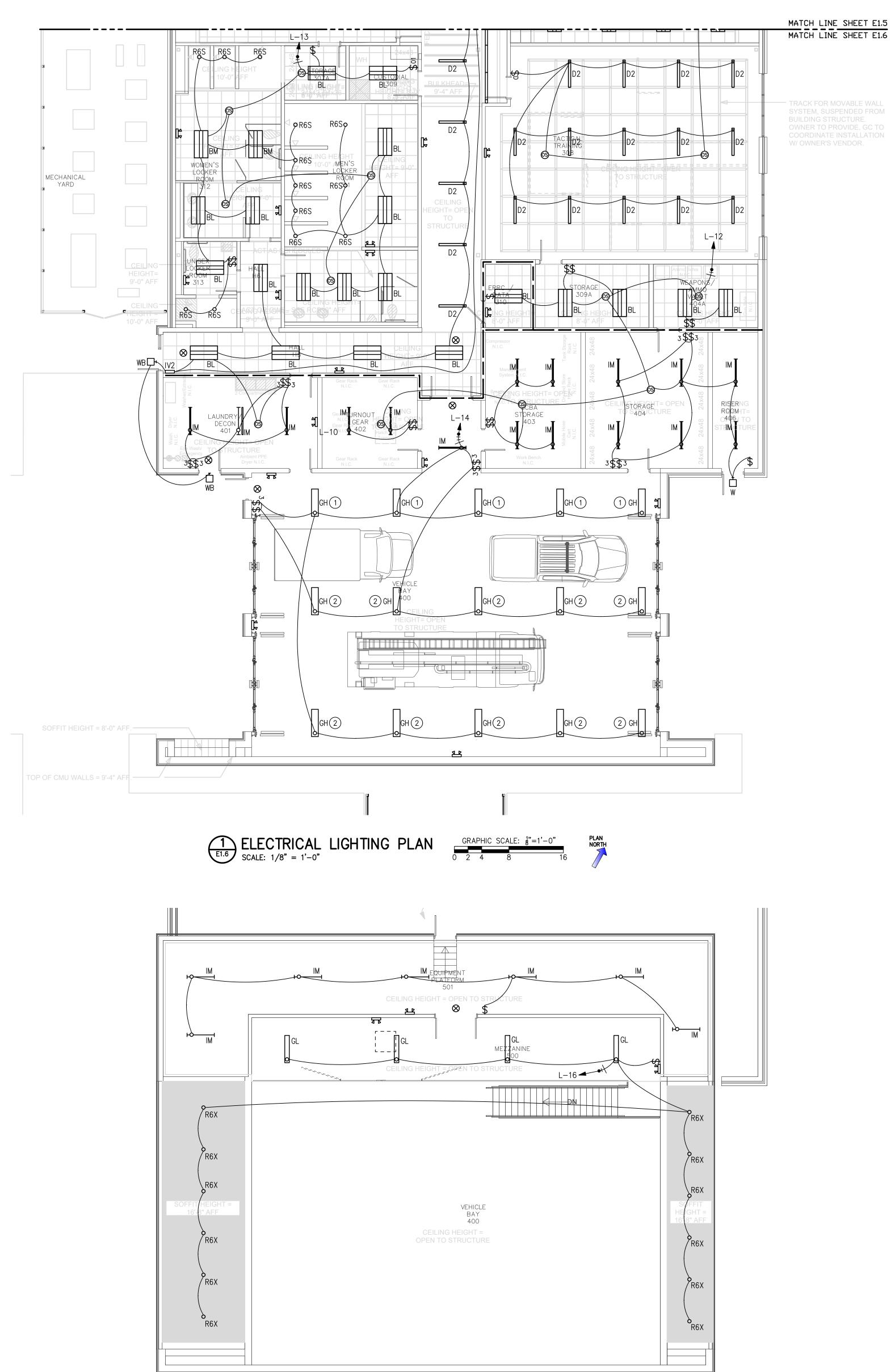










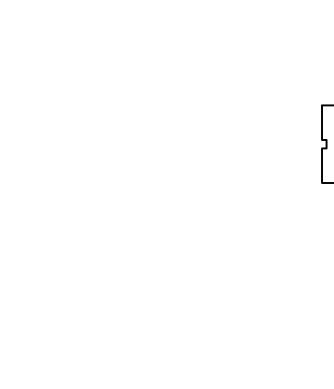


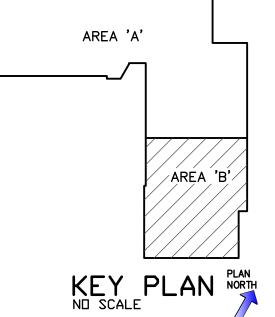
 $\begin{array}{c} 2\\ \hline E1.6\\ \hline SCALE: 1/8" = 1'-0" \end{array} \qquad MEZZANINE PLAN \qquad \begin{array}{c} GRAPHIC SCALE: \frac{1}{8}"=1'-0" \\ \hline 0 & 2 & 4 & 8 & 16 \end{array}$

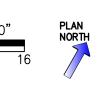
KEYED NOTES:

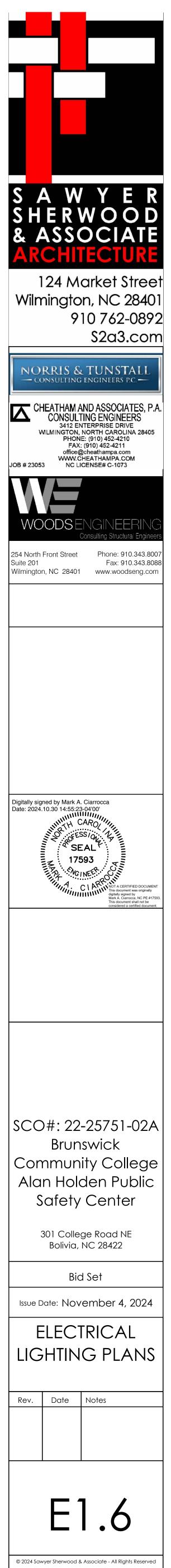
- \bigcirc GH FIXTURE MOUNTED ON BAR JOIST AT 22' AFF.
- (2) GH FIXTURE MOUNTED ON BAR JOIST AT 20' AFF.

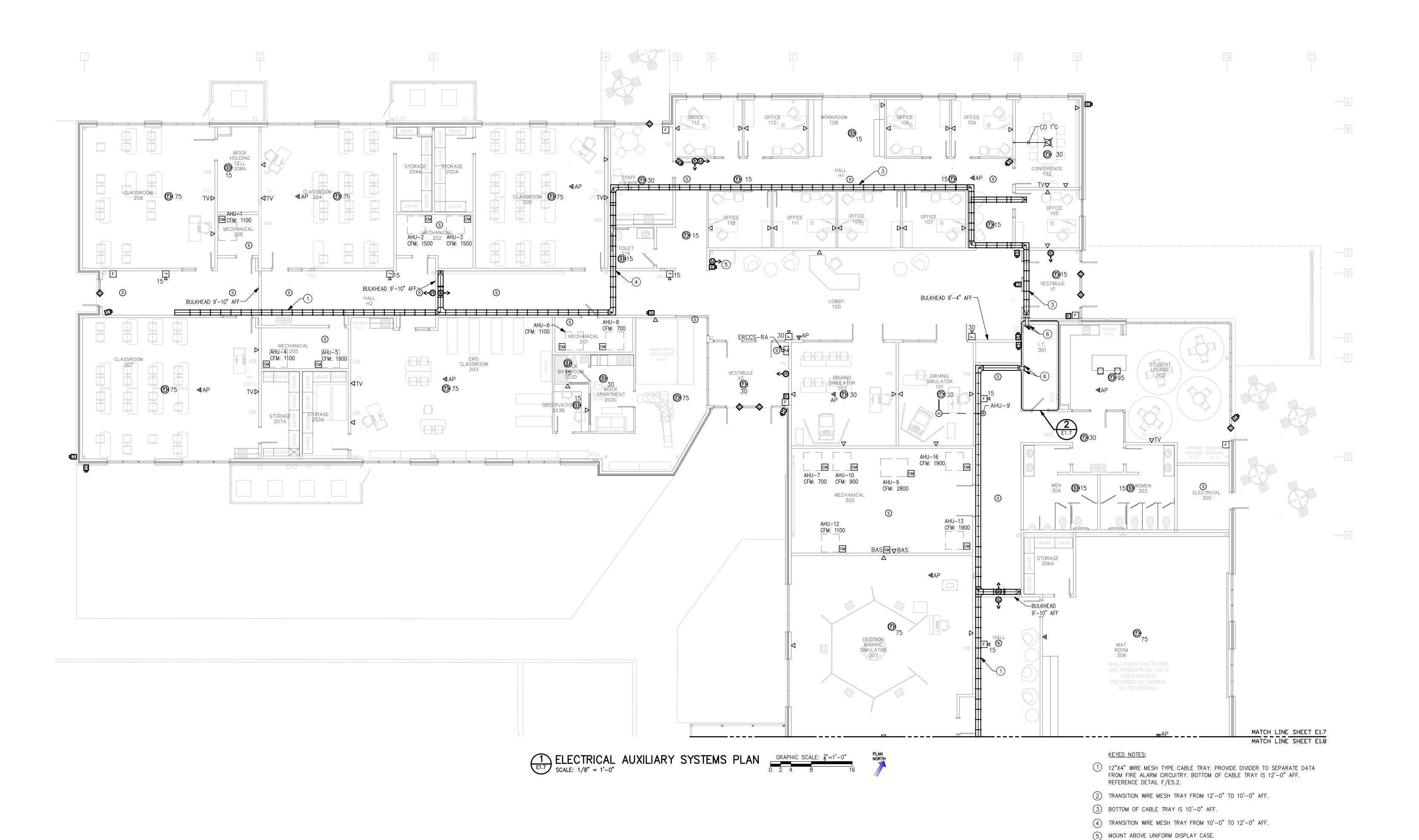








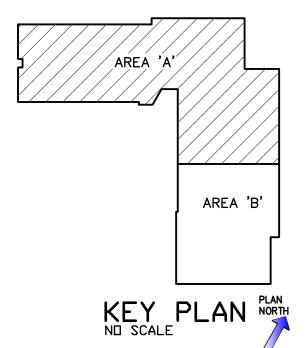






EQUIPMENT RACK-

B E5.1



$\begin{array}{c} 2\\ \hline E1.7\\ \hline SCALE: 1/4" = 1'-0" \end{array} AUXILIARY SYSTEMS ENLARGED PLAN \qquad GRAPHIC SCALE: \frac{1}{4}"=1'-0" \\ \hline 0 & 1 & 2 & 4 \end{array}$

└─1"C, #1/0

6) STUB 4"C THROUGH WALL FOR DATA.

12"X4" LADDER RACK

INSTALLED 12"

ABOVE TOP OF

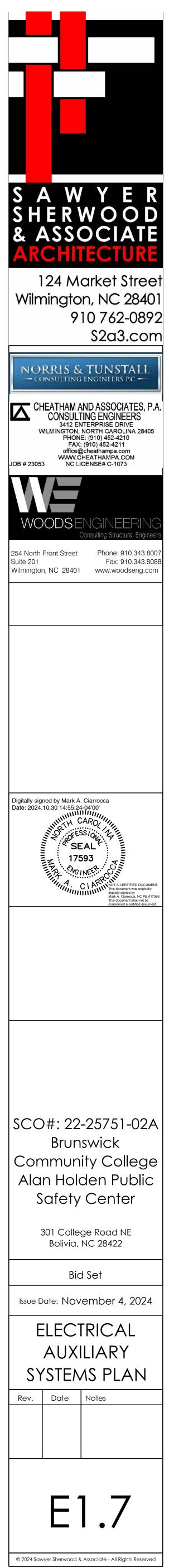
-FIRE-RATED

BACKBOARD 4'X8', PAINTED WHITE; MTD

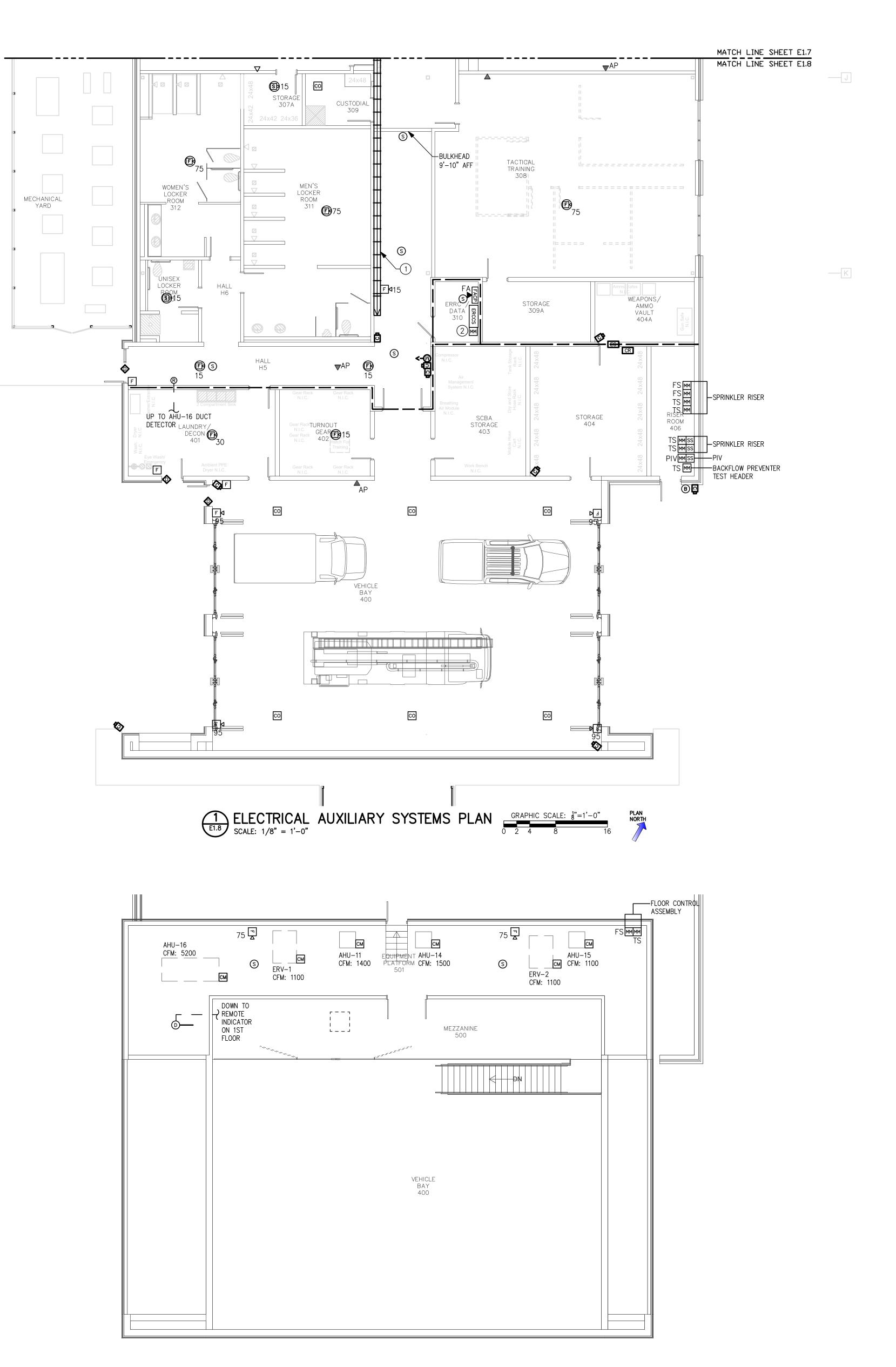
VERTICALLY 24"AFF, 3 WALLS

PLYWOOD

EQUIPMENT RACK

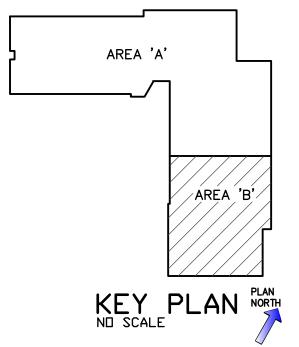


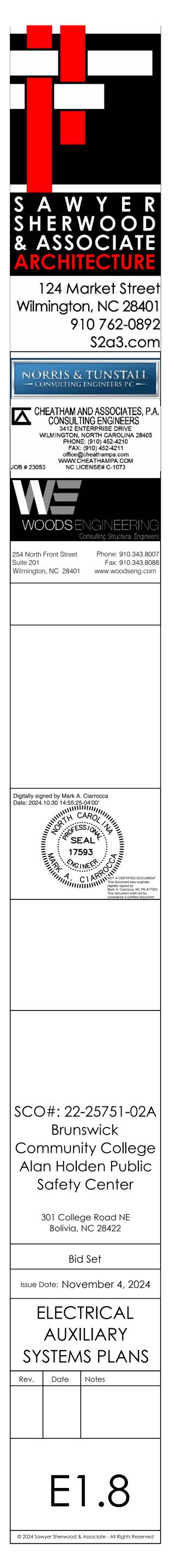
 $\begin{array}{c} 2\\ \hline E1.8\\ \hline SCALE: 1/8" = 1'-0" \end{array} AUXILIARY SYSTEMS MEZZANINE PLAN$ $SCALE: 1/8" = 1'-0" \\ \hline 0 2 4 8 16 \end{array}$

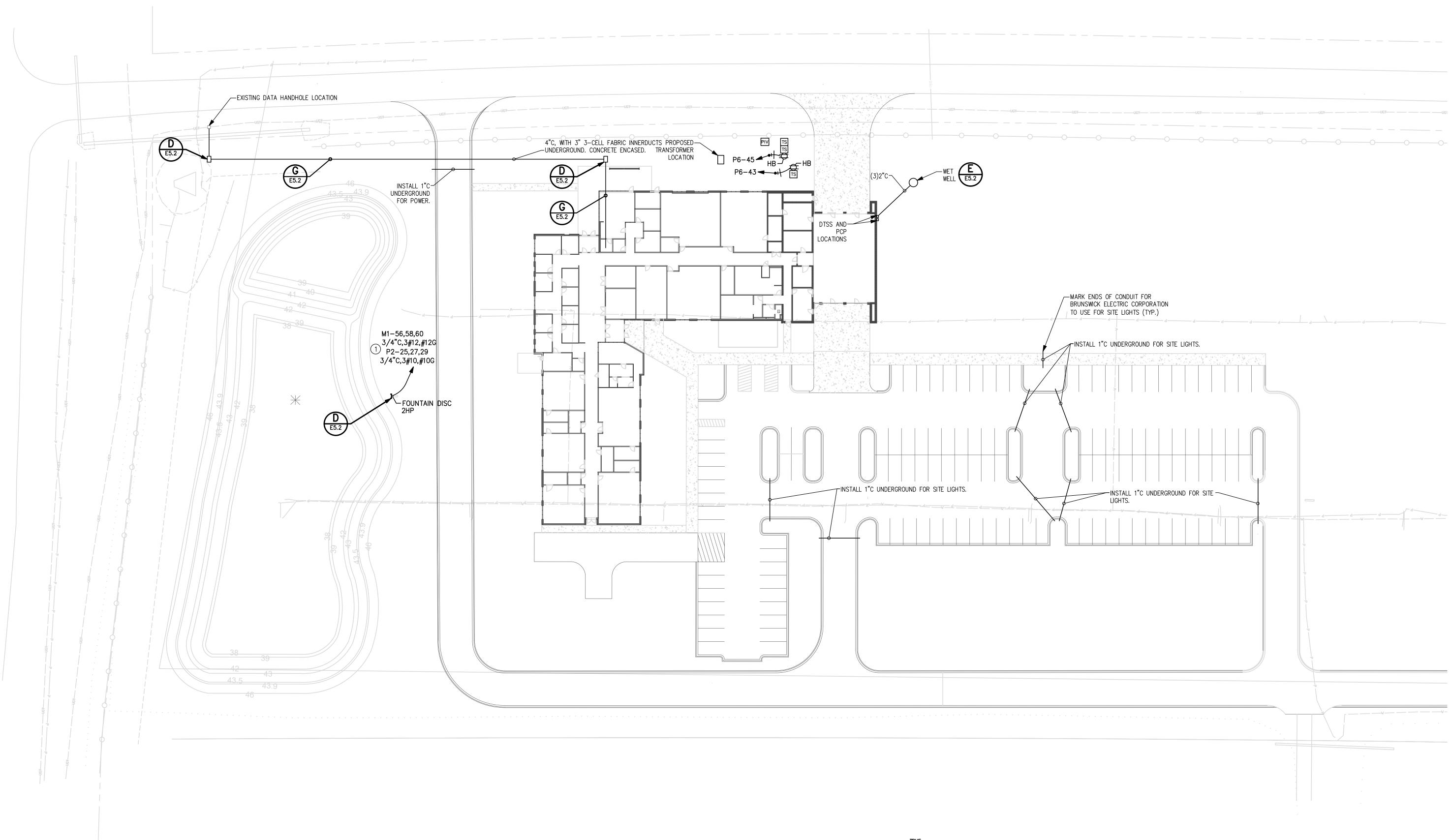


KEYED NOTES: 1 12"X4" WIRE MESH TYPE CABLE TRAY. PROVIDE DIVIDER TO SEPERATE DATA FROM FIRE ALARM CIRCUITRY. BOTTOM OF CABLE TRAY IS 12'-0" AFF.

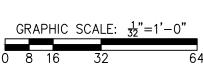
(2) (8) MONITOR MODULES FOR ERCCS.

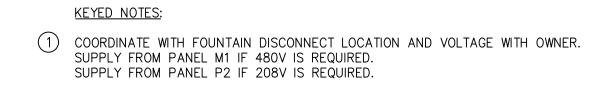


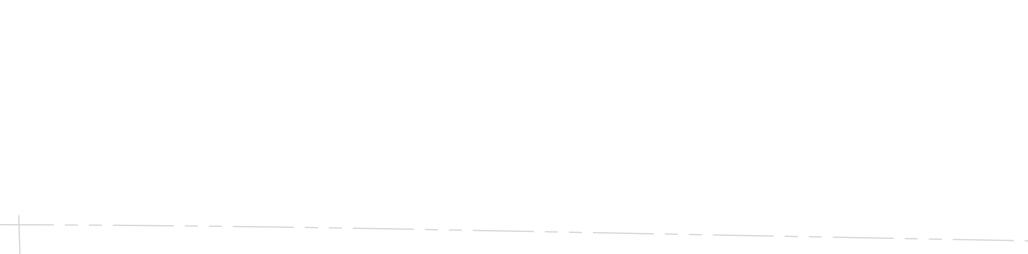


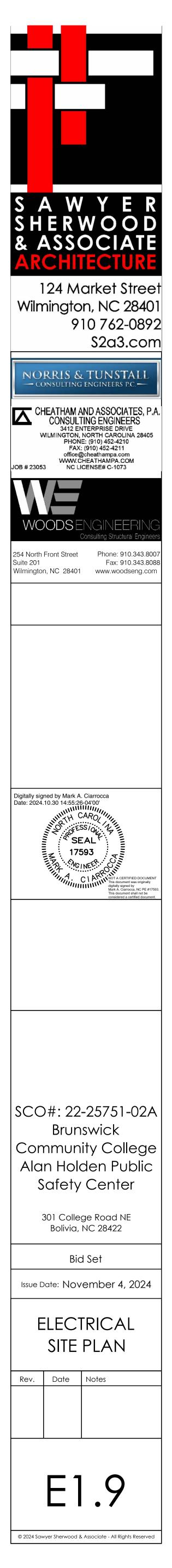


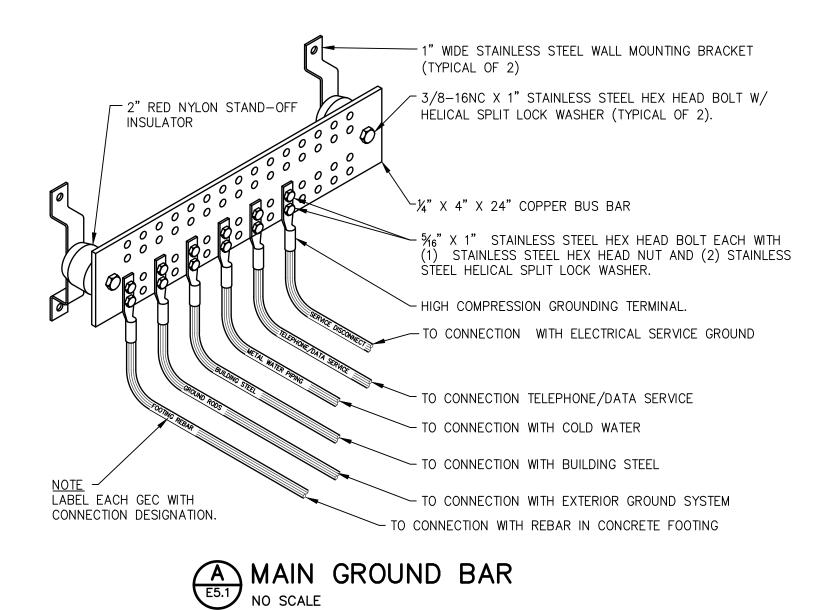
 $\underbrace{1}_{E-1.9} ELECTRICAL SITE PLAN$ SCALE: 1/32" = 1'-0" $GRAPHIC SCALE: <math>\frac{1}{32}"=1'-0"$ 0 8 16 32 64

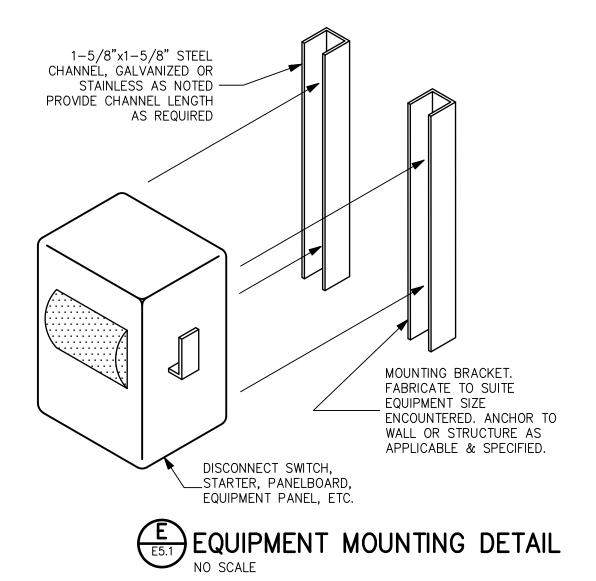


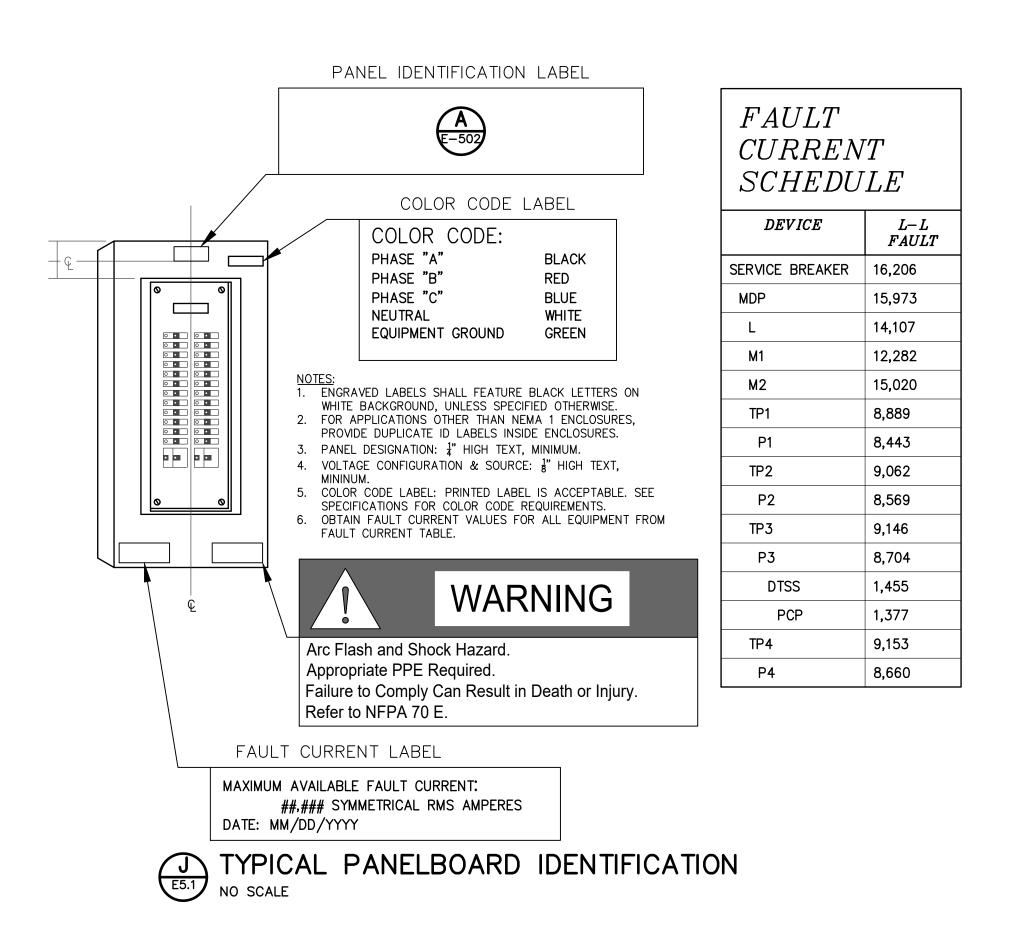


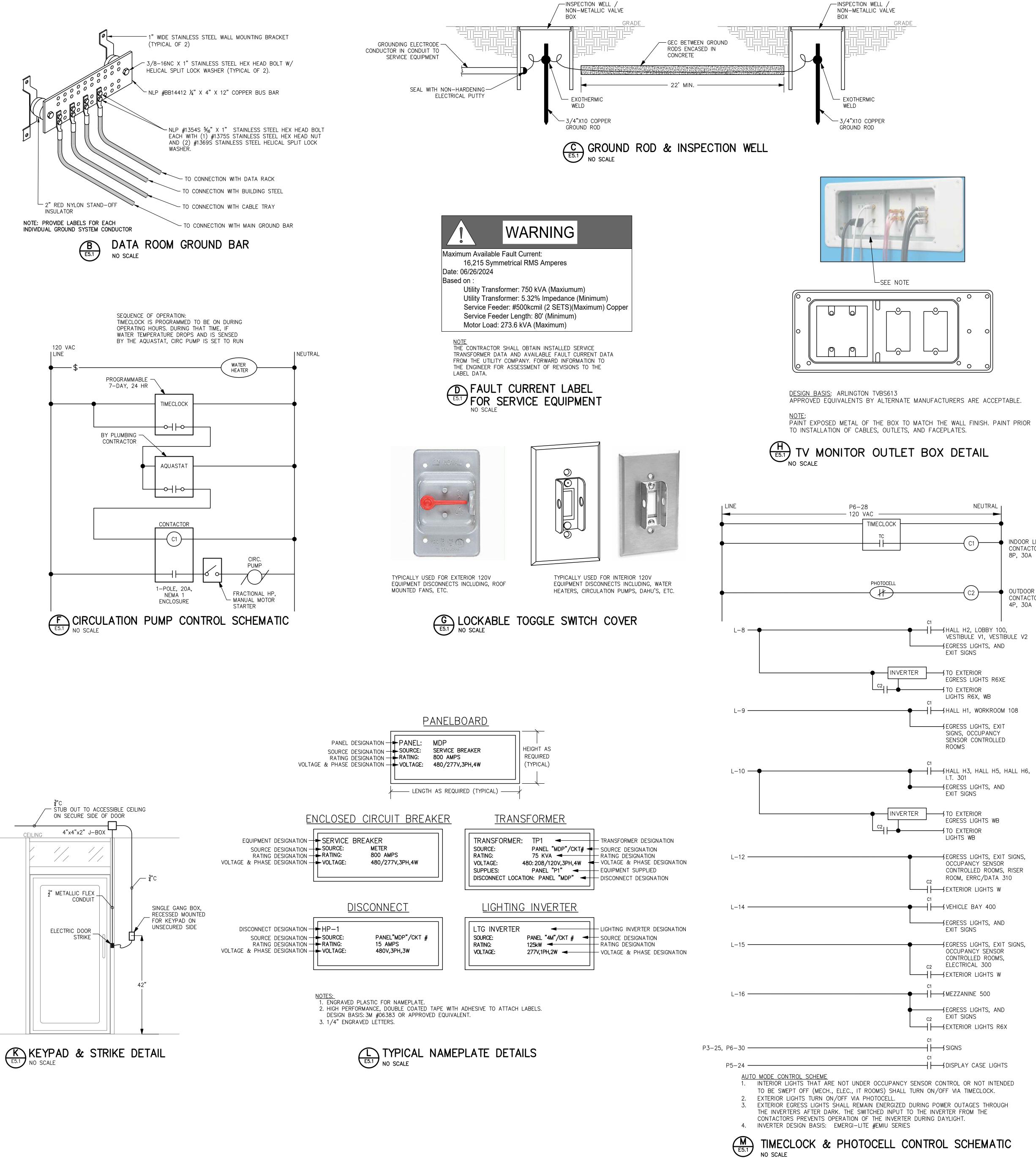


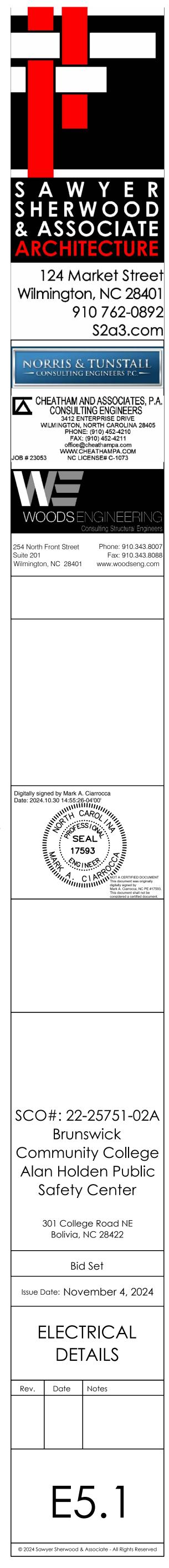






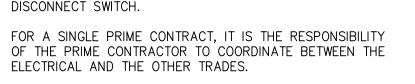






INDOOR LIGHTING CONTACTOR

OUTDOOR LIGHTING CONTACTOR



TESTING OF EQUIPMENT. SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A

ELECTRICAL NOTES

CONTRACTOR.

(1) EQUIPMENT OF TRADES OTHER THAN ELECTRICAL.

(3) SAFETY SWITCHES BY HVAC CONTRACTOR. IF AN

(2) CONDUIT & WIRING BY HVAC, PLUMBING CONTRACTOR, OR OTHER TRADES.

ADDITIONAL DISCONNECT IS REQUIRED BY THE NEC, IT

4 A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER. LOCATE ADJACENT TO EQUIPMENT.

(5) FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK.

6 JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR

SOME EQUIPMENT. IF NO STARTER OR DISCONNECT IS

ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR

SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX.

SUPPLIED, A JUNCTION BOX SHALL BE INSTALLED

LOAD SIDE WIRING SHALL BE PROVIDED BY THE

(7) FOR PROJECTS UTILIZING A MOTOR CONTROL CENTER; THE

(8) IN ALL CASES, THE EQUIPMENT CONTRACTOR SHALL MAKE

FINAL CONNECTIONS AND PERFORM START-UP AND

STARTER, C/B, OR VFD IN THE MCC ARE PROVIDED BY

MECHANICAL CONTRACTOR OR OTHER TRADES.

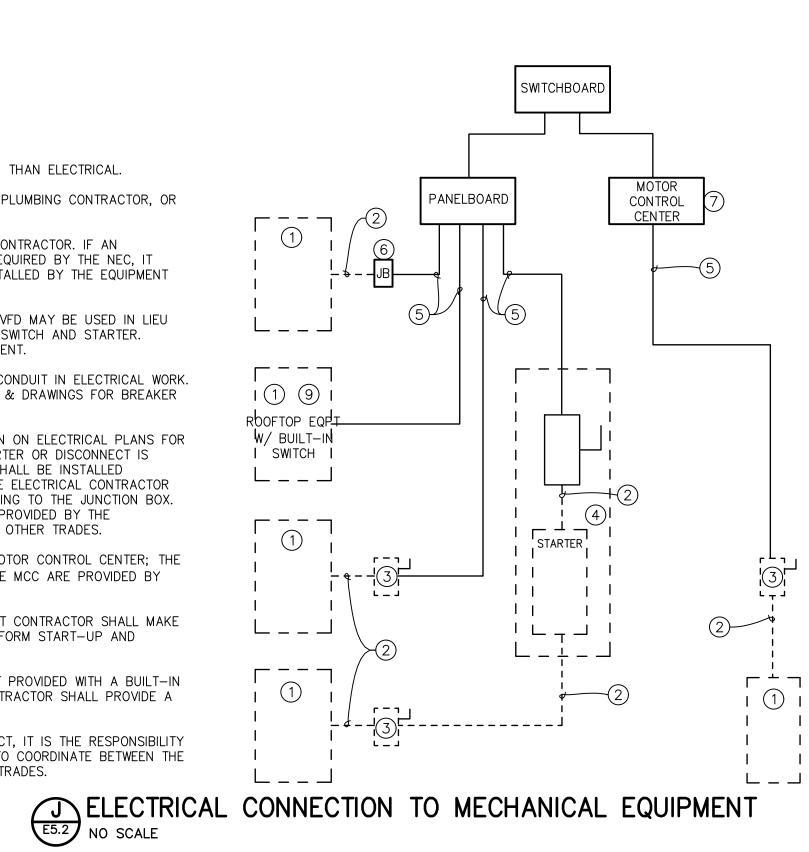
THE HVAC CONTRACTOR.

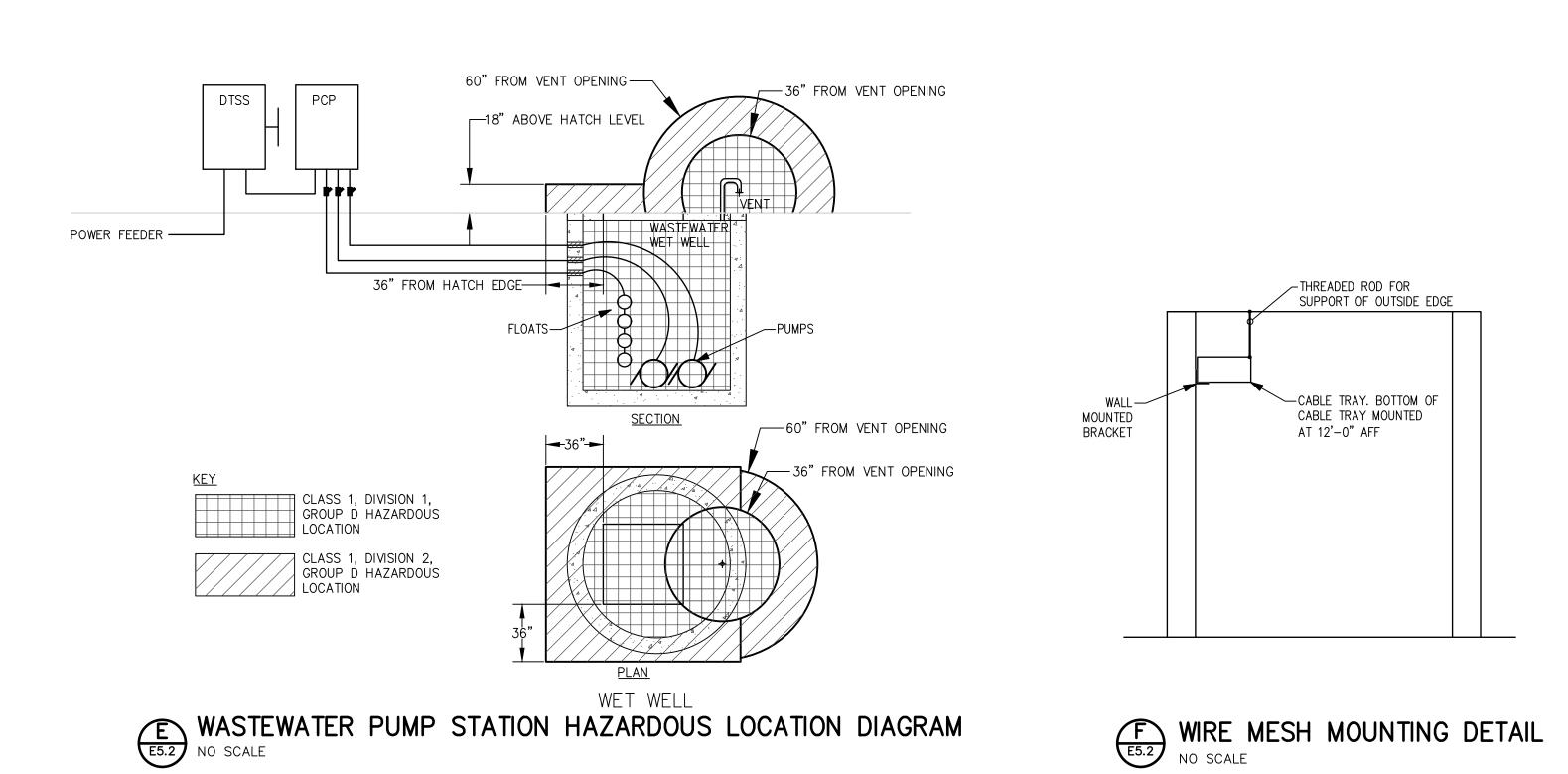
SEE PANELBOARD SCHEDULES & DRAWINGS FOR BREAKER AND WIRE SIZES.

SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT

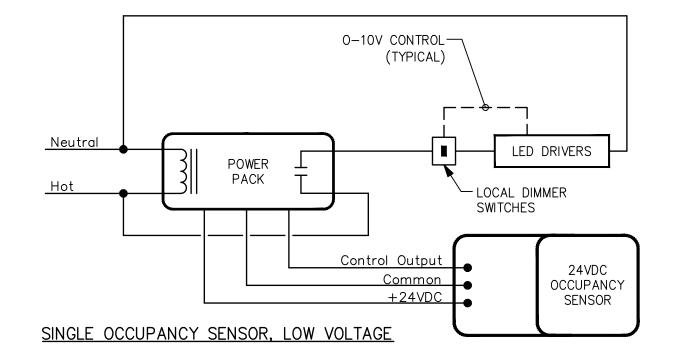
- DISCONNECT SWITCH.
- (9) IF THE ROOF TOP FAN IS NOT PROVIDED WITH A BUILT-IN
- (10) FOR A SINGLE PRIME CONTRACT, IT IS THE RESPONSIBILITY

- OF THE PRIME CONTRACTOR TO COORDINATE BETWEEN THE

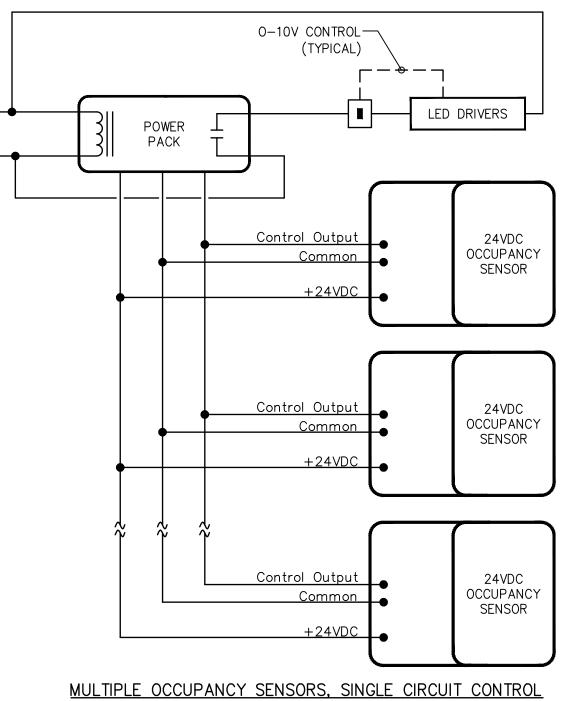




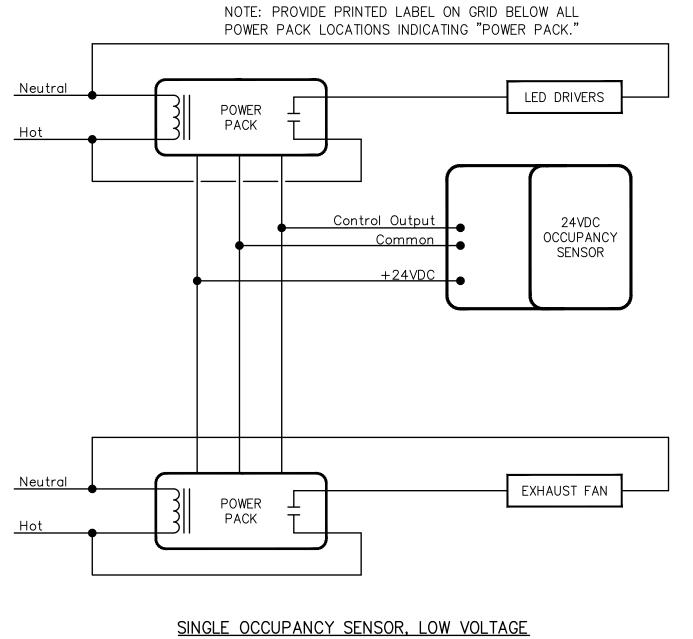
A OCCUPANCY SENSOR WIRING FOR DIMMING LEVEL LIGHTING CONTROL NO SCALE



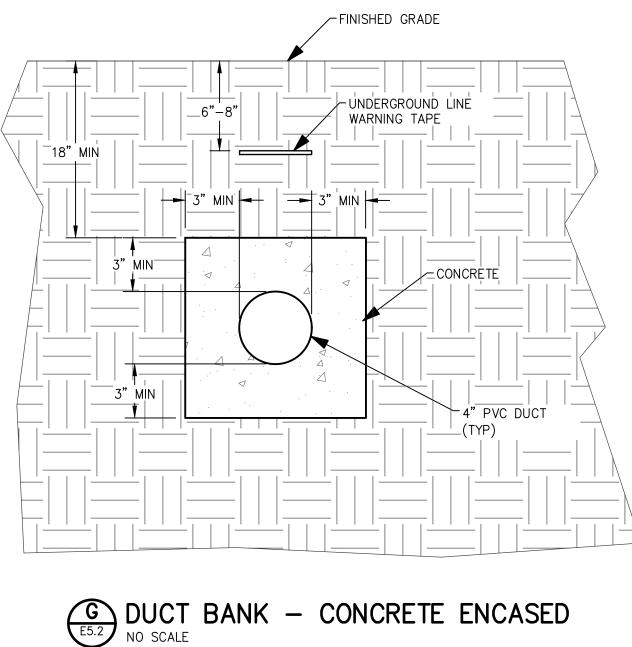
Neutral

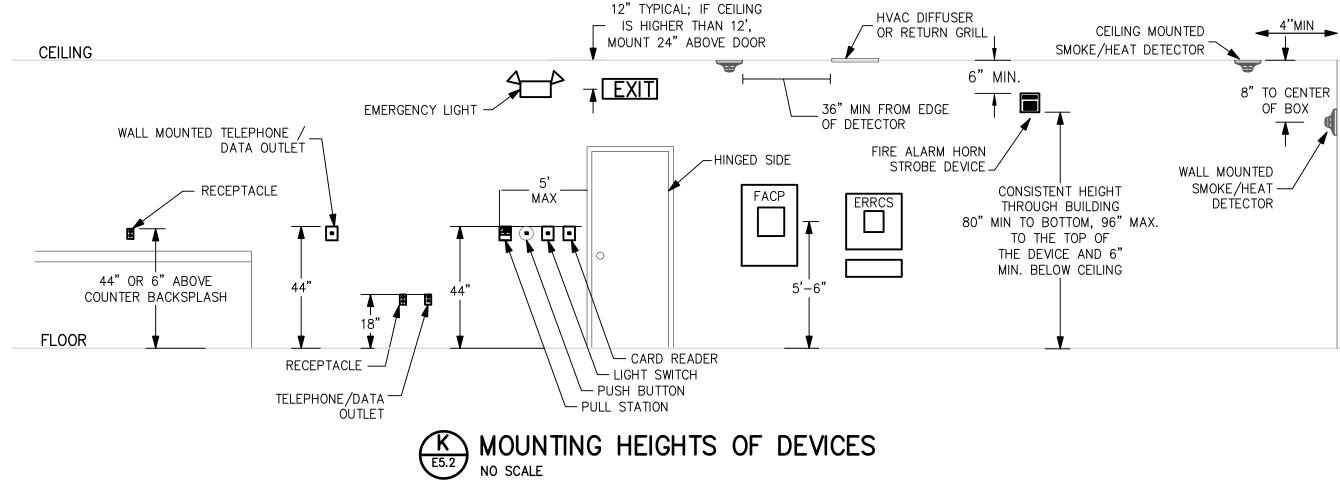




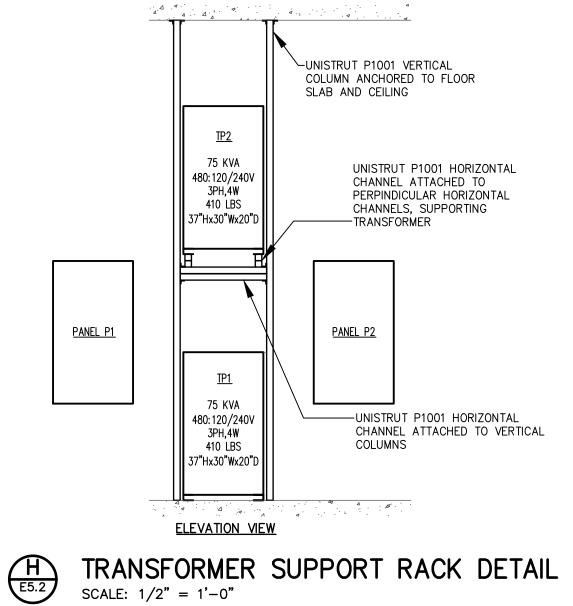


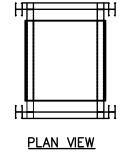




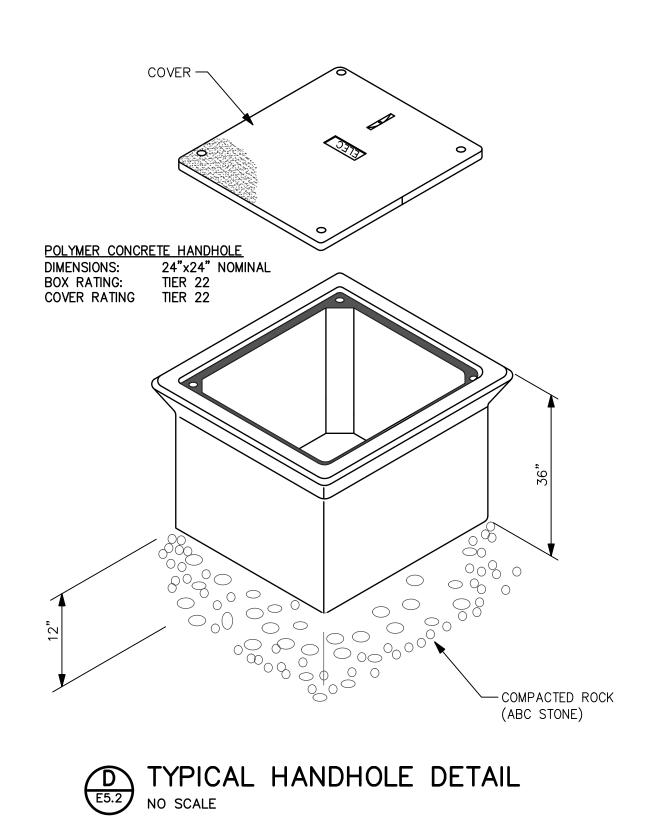


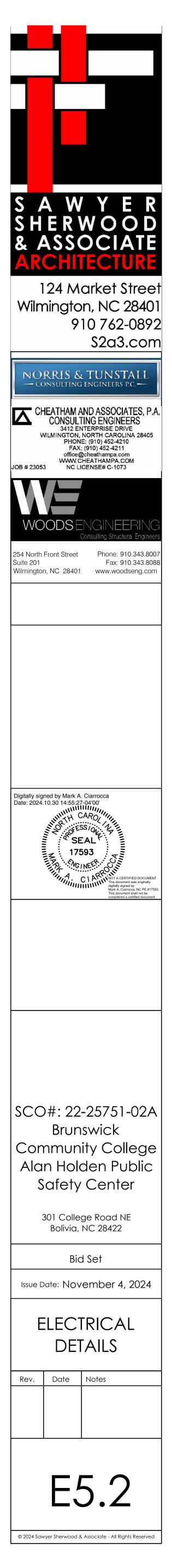








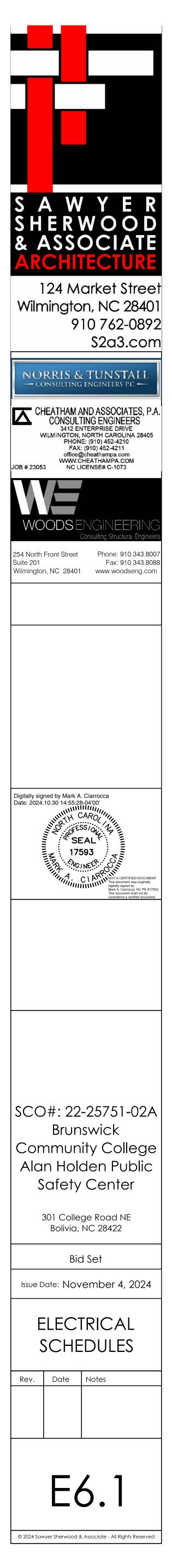




MDP				M1												
ROOM: ELECTRICAL 300 MOUNTING: SURFACE FED FROM: ATS NOTE: MULTIFUNCTION DIGITAL METERING	VOLTS: 480Y/277V 3P BUS AMPS: 800 NEUTRAL: 100%	4W AIC: 18,000 MAIN BKR: 800 LUGS: STANDARD		MOUNTI	NG: SURFACE	VOLTS: 480V 3P 3W BUS AMPS: 250 NEUTRAL: NONE		AIC: 18,000 MAIN BKR: 250 LUGS: STANDARD		MOUNT	ELECTRICAL 300 ING: SURFACE ROM: MDP	VOLTS: 480Y/ BUS AMPS: 10 NEUTRAL: 100	0	AIC: 18,000 MAIN BKR: MLO LUGS: STANDARD		
CKT CKT # BKR CIRCUIT DESCRIPTION	LOAD KVA	CKT CKT # BKR CIRCUIT DESCRIPTION	LOAD KVA	СКТ #	CKT BKR CIRCUIT DESCRIPTION	LOAD KVA CK	T Cł Bł	KT KR CIRCUIT DESCRIPTION	LOAD KVA	CKT #	CKT BKR CIRCUIT DESCRIPTION	LOAD K		KT KR CIRCUIT DESCRIPTION		_OAD_KVABC
1 70/3 SPD-MDP, 300 3 5	0 0 0	2 125/3 XFMR TP1, 300 4 6	23.8 23.8 23.8 23.8	3 5	15/3 HP-1	1.66 2 1.66 4 1.66 6		5/3 HP-2	2.22 2.22 2.22	1 3	30/3 SPD-L	0 0	2 2	D/1 EGRESS, LTG, 202, 204, 204A, 206, 208, 208A D/1 EGRESS, LTG, 203A, 205, 207, 207A	1.17	
7 250/3 PANEL M1, 305 9	65.5 65.5	8 125/3 XFMR TP2, 300	23.2 23.2 23.2 23.2	9	15/3 HP-3 	2.22 8 2.22 10 2.22 10)	5/3 HP-4 	2.22 2.22 2.22	5	1		0 6 2	D/1 EGRESS, LTG, 201, 203, 2 203C, 203D	03B,	1.21
13 100/3 PANEL L, 305	65.5 6.61 6.22	12 14 175/3 XFMR TP3P4, 300 16	29.1 31	13	I 15/3 HP-5	2.49 2.22 12 2.49 14 2.49 16		5/3 HP-6	1.66	7	20/1 EGRESS, EXH FAN, LTG, 115 200, 200A	0.592	8 2	D/1 EGRESS, EXIT, LTG, LTG-WALLPACK, 100, 114, V1, V2	H2, 2.44	
17 19 –/3 SPACE 21	0 5.5 0 0	18 20 175/3 XFMR TP5P6, 300 22	39.2 30.1 43.1	17 19 21	 20/3 HP-9 	4.16 2.49 18 4.16 20 4.16 22) 15	5/3 HP-12	1.66 1.66 1.66 1.66	9	20/1 EGRESS, EXIT, LTG, 102, 104 105, 106, 108, 110, 112, H1	, 1.81	10 2	D/1 EGRESS, EXIT, INVERTER, I LTG-WALLPACK, 301, 401, H5		1.68
23 25 –/3 SPACE 27	0 0 0 0	24 26 –/3 SPACE 28	0 36.8 0 0	27	 15/3 HP–11 	2.22 4.16 24 2.22 2.22 28	1	 5/3 HP–14 	2.22 1.66 2.22 2.22		20/1 EGRESS, LTG, 101, 103, 307	1 0 974	1.65 12 2	309A, 310, 402, 403, 404 404A, 406	-,	0.965
29 31 –/3 SPACE 33	0 0 0 0	30 32 –/3 SPACE 34	0 0 0 0	29 31 33	 15/3 HP-13 	2.49 2.22 30 2.49 32 32 2.49 34 34		 D/3 HP–16 	8.86 2.22 8.86 8.86		 20/1 EGRESS, LTG, 307A, 309, 3 312, 313 20/1 EGRESS, EXIT, LTG, LTG-WALLPACK, 303, 304, 1 	1.1		D/1 BAY LTG, EGRESS, EXIT, L 400 D/1 EGRESS, EXIT, LTG, 500, S		0.791
35 37 -/3 SPACE 39	0 0	36 38 –/3 SPACE 40	0 0	39	 15/3 HP-15 	2.22 2.49 36 2.22 38 38 2.22 40 38	3 15)	 5/3 HP–17	2.49 8.86 2.49 2.49	19 21	20/1 EGRESS, LTG, 306, 306A, 3 20/1 SPARE 20/1 SPARE		20 2 22 2	D/1 SPARE D/1 SPARE D/1 SPARE	О	0
41	0	42 TOTAL CONNECTED KVA BY PHASE		41 43 45 47	I ECONOAIR COMPRESSOR, 403	3.88 46	4 30 8	 D/3 AHU-9, 305 	5.82 2.49 5.82 5.82 5.82	25 27	20/1SPARE20/1SPARE20/1SPARE	0 0	26 2 28 2	0/1 SPARE 0/1 SPARE 0/1 SPARE	0	0
CONN KVA CAL	_C KVA	TOTAL CONNECTED AMPS BY PHASE CONN KVA CALC K			I 30/3 BREATHING AIR MODULE, 403		0 60	D/3 AHU-16, 501	11.3 5.82 11.3 11.3	29	20/1 SPARE		0 30 2	D/1 SPARE TOTAL CONNECTED KVA BY PH	ASE 6.61	0 6.22 5.5
LIGHTING 18.5 23.1 LARGEST MOTOR 12.5 3.12	(125%) (25%)	KITCHEN EQUIPMENT22CONTINUOUS33.75	(100%) (125%)	53	20/3 EXTRACTOR.	0.831 3.88 54	F) /3 BREAKER FOUNTAIN. DISC	0.942					TOTAL CONNECTED AMPS BY PH	IASE 23.9	22.5 19.9
MOTORS 248 248	(100%)	NONCONTINUOUS 20 20	(100%)	57		0.831 58	3		0.942		CONN KVA CAL			CONN KVA CAL		
RECEPTACLES 48.3 29.2	(30%>10)	DIVERSE 29.4 0	(100%) (0%)		20/3 SPARE	0 0.831 60		D/3 SPARE	0 0.942	LIGHTII	NG 18.3 22.9	(125%)	LARGEST MOTORS	0.03 0.03	(100	
		TOTAL LOAD525BALANCED 3-PHASE LOAD631 A		65		0 66	5						TOTAL LC BALANCEI	AD 22.9 3–PHASE LOAD 27.6		
								TOTAL CONNECTED KVA BY PHASE								
								TOTAL CONNECTED AMPS BY PHASE								
				LARGE MOTOR	CONN KVA CALC H ST MOTOR 12.5 3.12 IS 146 146	 (25%) HE/	ATING ÆRSE	CONN KVA CALC KV 44.9 44.9 5.32 0	 (100%) (0%)							
							TAL LOA LANCED	AD 194 D 3–PHASE LOAD 234 A								

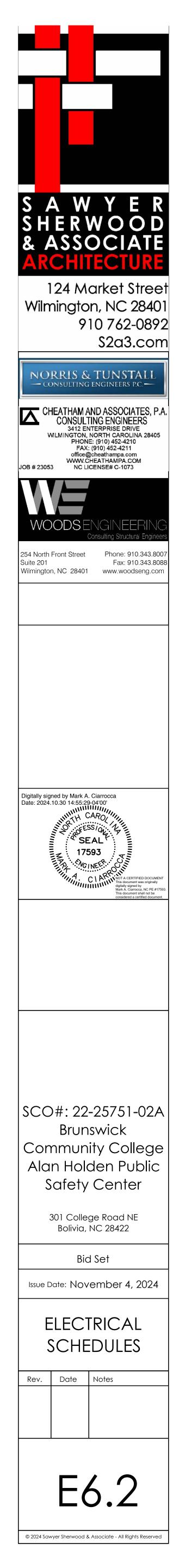
P1										P2	2												
ROOM: ELECTRICAL 300 MOUNTING: SURFACE FED FROM: TP1 NOTE:	VOLTS: BUS AM NEUTRAI	PS: 225	5	4W		AIC: 10,000 MAIN BKR: 225 LUGS: STANDARD				MOU	NTING: S FROM: T		BUS	AMP	08Y/12 S: 225 100%	20V 3P	4W		AIC: 10,000 MAIN BKR: LUGS: STAN	225			
CKT CKT # BKR CIRCUIT DESCRIPTION		OAD KV B	/A C	СКТ #	CKT BKR	CIRCUIT DESCRIPTION	A	LOAD KV B	'A C	СКТ #	CKT BKR	CIRCUIT DESCRIPTION		LO A	AD KV	A C	СКТ #	CKT BKR		DN	A	LOAD K	VA C
1 30/3 SPD-P1 3	0	0		24	45/3 	AHU-2, 202	4.04	4.04		1 3	30/3 	AHU-7, 305	2.	69	2.69		2 4	30/3 	SPD-P2		0	0	
5 7 45/3 AHU-1, 206	3.9	3.9	0	6 8	 45/3	AHU-4, 205	4.04	4.04	4.04	5 7 9	50/3	AHU-13, 305	4.	1	4.18	2.69	6 8	 45/3	AHU-6, 201		3.9	3.9	0
9 11 13 45/3 AHU-3, 202	4.04	5.9	3.9	10 12 14	30/3	AHU-8, 201	2.69		4.04	11 13	45/3	AHU-15, 501	4.	ļ	4.10	4.18	10 12 14	 30/3	AHU-10, 305		2.69		3.9
15 17 10 50 (7		4.04	4.04	16 18			0.007	2.69	2.69	15				ļ	4.04	4.04	16 18					2.69	2.6
19 50/3 AHU-5, 205 21 23	4.18	4.18	4.18	20 22 24	20/3	DOOR OPERATOR, 400	0.887	0.887	0.887	19 21 23	50/3	AHU-17, 305	4.	-	4.18	4.18	20 22 24	20/3	EXTRACTOR		0.6	0.6	0.0
25 20/1 SPARE 27 20/1 SPARE	0	0		26 28	20/1 20/1	SPARE SPARE	0	0		25 27	20/3	FOUNTAIN DISC	0	.9	0.9		26 28	20/1 20/1	SPARE SPARE		0	0	
29 20/1 SPARE 31 20/1 SPARE 33 20/1 SPARE	0	0	0	30 32 34	20/1 20/1 20/1	SPARE SPARE SPARE	0	0	0	29 31 33	 20/1 20/1	SPARE SPARE		כ	0	0.9	30 32 34	20/1 20/1 20/1	SPARE SPARE SPARE		0	0	0
35 20/1 SFARE 35 20/1 SPARE 37 20/1 SPARE	0		0	36 38	20/1 20/1 20/1	SPARE	0		ο	35	20/1 20/1 20/1	SPARE)	U	0	36 38	20/1 20/1 20/1	SPARE		0	U	0
39 20/1 SPARE 41 20/1 SPARE		0	0	40 42	20/1 20/1	SPARE SPARE		0	0	39 41	20/1 20/1	SPARE SPARE			0	0	40 42	20/1 20/1	SPARE SPARE			0	0
						TAL CONNECTED KVA BY PHASE	23.8		23.8										OTAL CONNECTED KVA				
CONN KVA C	ALC KVA				101/	AL CONNECTED AMPS BY PHASE	198	198	198			CONN KVA	CALC KVA					10	TAL CONNECTED AMPS	CALC KV		193	19
		5%)		MOTO HEAT		10.2 10.2 61.2 61.2	(10) (10)			LAR	GEST MO		0.675	(25%	5)		MOTO HEAT		12 57.6	12 57.6		10%) 10%)	
					L LOAD NCED 3—F	71.8 PHASE LOAD 199 A												LOAD NCED 3-	-PHASE LOAD	70.2 195 A			

NOUN	TING: SI ROM: T		VOLTS: BUS AMI NEUTRAL	PS: 225		4W		AIC: 10,000 MAIN BKR: 200 LUGS: STANDARD			
CKT	CKT BKR	CIRCUIT DESCRIPTION		OAD KV		CKT #	CKT BKR	CIRCUIT DESCRIPTION		OAD KV	
		SPD-P3	A 0	B	С	# 2			A 2.3	B	C
1 3	30/3 I	SFD-F3		0		4	30/2 I	REC-DRYER, 401	2.5	2.3	
5					0	6	ا 20/1	REC, 301		2.5	0.7
7	ا 20/2	ELECTRIC BASEBOARD EBB-1,	0.5	-	U	8	20/1	REC, 301	0.72		0.7
9	20/2	406		0.5		10	20/1	REC, 302	0.72	0.54	
9 11	ا 25/2	HP-10	}	0.0	1.56	12	20/1	REC, 302 REC-MICROWAVE, 302		0.04	1
13	23/2		1.56		1.50	14	20/1	REC-MICROWAVE, 302	1	-	
15	1 20/1	REC, 306A	1.50	0.72		16	20/1 20/1	REC, REC-EXT GFCI, REC-TV, 302		0.76	
17	20/1	REC, 306			0.72	18	20/1	REC, 302			0.1
19	20/1	REC, 308	0.72		0.72	20	20/1	REC, 302	0.18		
21	20/1	REC, REC-GFCI, 309A, 310		0.9		22	20/1	(*) REC-EWC, H3		1.2	ł
23	20/1	REC, 404, 404A	-	0.0	0.72	24	20/1	REC, 303, 304, H3		1.2	0.5
25	20/1	REC, 403	0.54		0.72	26	20/1	REC-GFCI, 300	0.18		
27	20/1	REC, 403		0.54		28	20/1	FAN F-4, 400		1.18	
29	20/1	REC, REC-EXT GFCI, 400	-	0.0+	0.54	30	20/1	FAN F-5, 400		1.10	1.1
31	20/1	REC, REC-EXT GFCI, 400	0.54	_	0.54	32	30/1	AMBIENT PPE DRYER, 401	1.92		1.1
33	20/1	SIGN	0.54	1.8		34	20/3	DOOR OPERATOR, 400	1.52	0.887	-
35	20/1	SPARE		1.0	0	36	20/5	DOOK OF ERATOR, 400		0.007	0.8
37		SPARE	0		0	38			0.887		0.0
39	20/1 20/1	SPARE		0		40	ا 20/1	(#) EMERGENCY RESPONDER RADIO, 310	0.007	1	
41	20/1	SPARE			0	42	20/1	(#) FIRE ALARM PANEL, 310			1
								TAL CONNECTED KVA BY PHASE		12.3	9.0
		CONN KVA CALC K					ТОТ	AL CONNECTED AMPS BY PHASE		104	75.
						_					
	EST MOT		•	5 %)			PTACLES	9.76 9.76	•	‰>10)	
мото	JKS	11.1 11.1	(10)0%)			EN EQUIP ONTINUOU		(100 (100		
							LOAD NCED 3-F	33.2 PHASE LOAD 92.1 A			

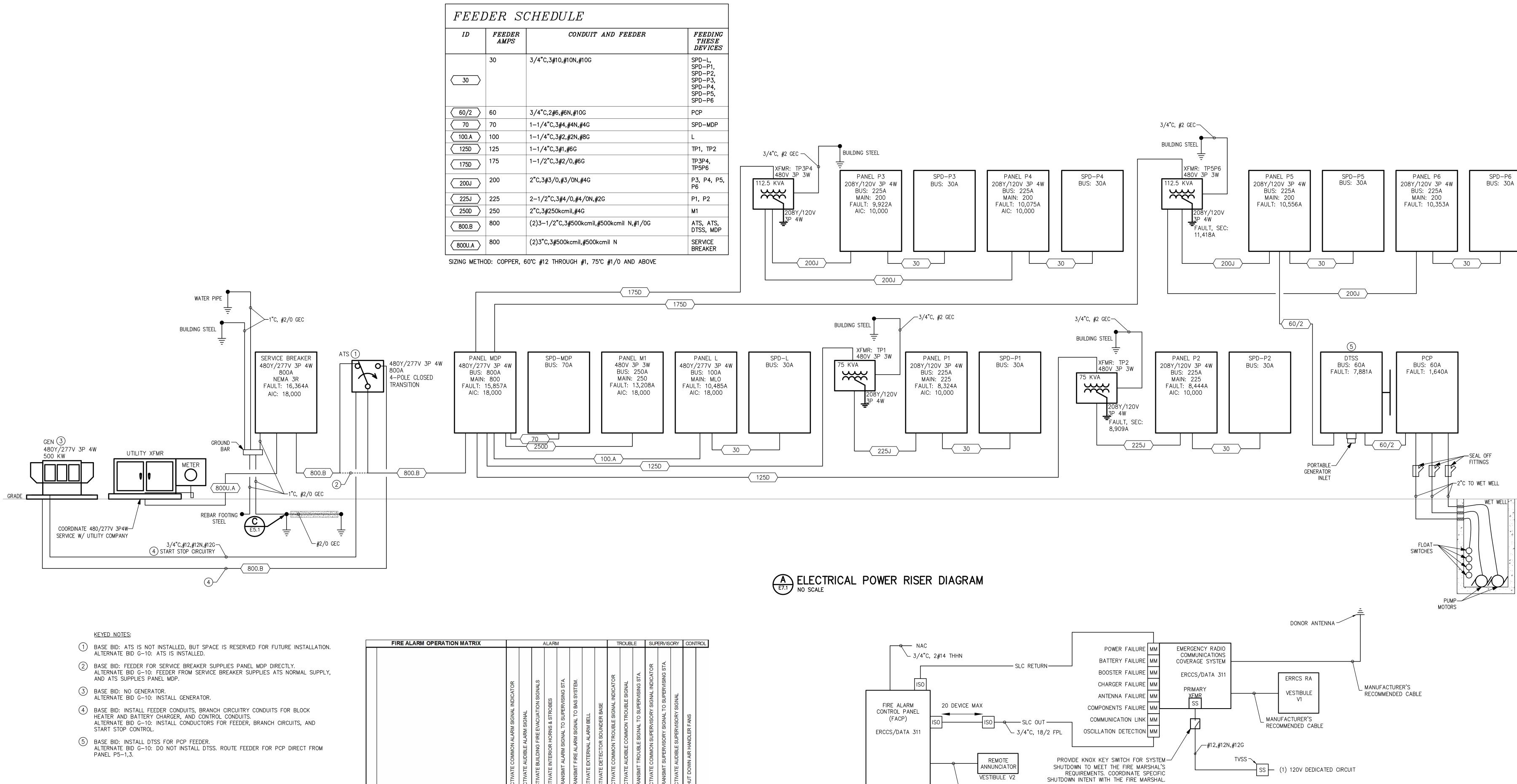


DOM: ELECTRICAL 300 DUNTING: SURFACE	VOLTS: BUS AN	IPS: 225	5	4W		AIC: 10,000 MAIN BKR:	200				MOU	M: 300 NTING: S			BUS	AMPS:		9 4W		AIC: 10, MAIN BK	R: 200			
D FROM: TP3P4 DTE:	NEUTRA	L: 100%				LUGS: STAI	NDARD				NOTE	FROM: 1 . .	2526		NEUTI	RAL: 10	0%			LUGS: S	TANDARD			
КТ СКТ		LOAD KI	/Δ	СКТ	СКТ				.0AD KV	/Δ	СКТ	CKT				LOAD	κνα	СКТ	СКТ			<u> </u>	OAD KV	/ <u>\</u>
BKR CIRCUIT DESCRIPTION	A	B			BKR	CIRCUIT DESCRIPTION	N		B	C		BKR		RIPTION					BKR	CIRCUIT DESCRIF	PTION	A	B	<u>с с</u>
45/3 AHU-11, 501	3.9			2	30/3	SPD-P4, 300		0			1	60/2	DTSS FOR PCF	0	7.5			2	30/3	SPD-P1		0		
5		3.9		4					0		3					7.	1	4					0	
			3.9	6						0	5	25/2	DAHU-1, DHP-	-1, 301		_	2.08	ł						
45/3 AHU-12, 305	3.9			8	15/1	FAN F-2, 304		0.696			7				2.0	1		8	20/1	REC, 100, V1		0.72		
		3.9	7.0	10	20/1	REC-GFCI, 305			0.9	0.70	9	25/2	DAHU-2, DHP	-2, 310		2.	-	10	20/1	REC, 102	D 400		0.54	
			3.9	12	20/1	REC, 307				0.36	11			7 700		,	2.08	12	20/1	REC, REC-FLOO	R, 102			0.
3 45/3 AHU-14, 501	4.04	4.04		14	20/1	REC, 307		0.36	0.70	-	13	30/2	DAHU-3, DHP	-3, 300	2.7	ł	_	14	20/1	REC, 104		0.9		ł
		4.04	4.04	16	20/1	REC, 307			0.36	0.70	15					2	+		20/1	REC, 105			0.9	
	1 0 0		4.04	18	20/1	REC, 307			-	0.36	17	25/2	HP-7			_	1.56	•	20/1	REC, 106				0
925/1AIR SCRUBBER AS-1, 400	1.66			20	20/1	CIRC PUMP, WATER 309	CHEATER,	0.7			19				1.5	ł		20	20/1	REC, 107		0.9	0.54	
1 25/1 AIR SCRUBBER AS-2, 400		1.66		22	20 /1	REC, REC-GFCI, 30	0 711		0.72		21		REC, 200	~~~		0.	+	22	20/1	REC, 108, H1			0.54	
		1.00	1.66	22	20/1			-	0.72	0.72	23	20/1	REC, REC-TV,	200			0.94	•	20/1	REC, 108				0.
3 25/1 AIR SCRUBBER AS-3, 400			1.66	24	20/1	REC, REC-EXT GFC REC-GFCI, 312, 31				0.72	25	20/1	REC, 200		0.5	+		26	· ·	REC-COPIER, 10	8	1		ł
5 25/1 AIR SCRUBBER AS-4, 400	1.66			26	20/1	REC, H3, H5	0	0.54			27	20/1	REC, REC-GFC		202	0.	1	28	20/1	REC, 109			0.9	
$7 \mid 25/1 \mid AIR SCRUBBER AS-5, 400$	1.00	1.66		28	20/1	REC, H3		0.54	0.54	-	29	· ·	DDC J-BOX, 2				0.15		20/1	REC, 110				0.
9 25/1 AIR SCRUBBER AS-5, 400	ł	1.00	1.66	30	20/1	REC, REC-GFCI, 50	0 501		0.54	0.54	31	20/1	DDC J-BOX, 2	206	0.1	+		32	20/1	REC, 111		0.9		
1 = 20/1 = REC - GFCI, 401	0.72		1.00	32	20/1	DDC J $-BOX$, 501	, 501	0.15		0.54	33	20/1	REC, 204			0.	1	34	20/1	REC, 112			0.9	
3 20/1 REC - WASHER, 401	0.72	1		34	20/1	REC-BATTERY CHA	DOED	0.15	1		35	20/1	REC, 204		ļ		0.36	•	20/1	REC, 113				0.
5 20/1 REC, 402	-		0.54		20/1	REC-BLOCK HEATE				1.5	37	20/1	REC, REC-TV,	204	0.7	ł	_	38		REC, 114, 115		1.08		
			0.54			SPARE	.Π	0		1.5	39	20/1	REC, 204A		ļ	0.	ł	40		(*) REC-REFRIG			1	
7 20/1 REC, REC-EXT GFCI, 400	0.54	0	-	38	20/1				0	-	41	· ·	REC, REC-GFC				0.36	42	· ·	LTS-DISPLAY C	ASE, 100			0
9 20/1 SPARE	ł	0		40		SPARE			0		43	20/1	REC, REC-TV,	208	0.7	6		44	20/1	SPARE		0		
1 20/1 SPARE			0	42	20/1	SPARE				0	45	20/1	REC, 208			0.	54	46	20/1	SPARE			0	
					TO	TAL CONNECTED KV	A BY PHASE	18.9	19.7	19.2	47	20/1	REC, 208				0.72	48	20/1	SPARE				(
											49	20/1	REC-EXT GFCI		0.5	4		50	20/1	SPARE		0		
					TOTA	L CONNECTED AMPS	5 BY PHASE	157	164	160	51	20/1	SPARE		ĺ	(52	20/1	SPARE		Ì	0	
CONN KVA CAL	C KVA					CONN KVA	CALC KV	A			53	20/1	SPARE				0	54	20/1	SPARE		ļ		(
ARGEST MOTOR 1.66 0.414	(2	5%)		RECE	PTACLES	7.2	7.2	 (50%	% ا(2)										то	TAL CONNECTED	KVA BY PHASE	22.1	19.9	12
14.5 14.5	(1	00%)			ONTINUOU		3.65	(100											тот	AL CONNECTED A	MPS BY PHASE	187	171	10
				HEATI		32.4	32.4	(100	%)				CON	IN KVA	CALC KVA					CONN I	VA CALC KV	A		
					_ LOAD		58.2									(405%)		NOTO					\~\	
				BALA	NCED 3-F	HASE LOAD	161 A					HTING	0.1			(125%)		MOTO		31.8	31.8	(100		
												RGEST MO	ror 7.5	1	.88	(25%)			PTACLES	20.3	15.1		%>10)	
																		NONC	CONTINUOL	JS 2.3	2.3	(100)%)	
																		ΤΟΤΑ	L LOAD		51.3			
																				PHASE LOAD	142 A			

MOUN	I: 300 ITING: SI FROM: TI :		VOLTS: BUS AMI NEUTRAL	PS: 225	•	4W		AIC: 10,000 MAIN BKR: 200 LUGS: STANDARD			
CKT #	CKT BKR	CIRCUIT DESCRIPTION	L	OAD KV B	A C	СКТ #	CKT BKR	CIRCUIT DESCRIPTION	L A	OAD KV B	/A
				D						D	
1 3	30/3	SPD-P1, 300	0	0		24	80/2 I	WATER HEATER WH-2, 207	6.03	6.03	ł
5				U	о	6	ا 80/2	WATER HEATER WH-2, 114	-	0.05	6.
7	 20 /1		0.72		U	8	00/2	WATER HEATER WH-2, 114	6.03		0.
9	20/1 20/1	REC, REC-GFCI, 201, H2 DDC J-BOX, 201	0.72	0.15		10	ا 80/2	WATER HEATER WH-2, 203	0.03	6.03	-
9 11	20/1	REC, 203		0.15	0.36	12	1	$ \mathbf{W} = \mathbf{Z}, \mathbf{Z} \mathbf{U} $	ł	0.00	6.
13	20/1	REC, 203 REC, REC-TV, 203	0.94		0.00	14	ا 25/2	HP-8	1.56		0.
15	20/1	(*) REC-REFRIGERATOR, 20	4	1		16	23/2		1.00	1.56	-
17	20/1	REC, 203, 203C			0.72	18	1 20/1	REC, 100, 101, 103, V2	ł	1.00	0
19	20/1	REC, REC-EXT GFCI, 203A	0.54		0.72	20	20/1	REC, 101	0.36		
21	20/1	REC, 203B		0.9		22	20/1	REC, 101		0.36	ł
23	20/1	REC, 203			0.72	24	20/1	REC, 103	ł	0.00	0.
25	20/1	REC, 203	0.54			26	20/1	REC, 103	0.36	l I	0.
27	20/1	REC, 203C, 203D		0.54		28	20/1	LTG CONTROL		0.1	ł
29	20/1	DDC J-BOX, 205			0.15	30	20/1	SIGN	ł		1
31	20/1	REC, 207	0.72			32	20/2	ENERGY RECOVERY	1.66	L	.
33	20/1	REC, REC-TV, 207		0.76		34		VENTILATOR ERV-1, 501	1	1.66	İ
35	20/1	REC, 207	Ì		0.54	36	20/2	ENERGY RECOVERY	Ì		1.
37	20/1	REC, REC-GFCI, 205, 207, 207A	0.72			38	Í	VENTILATOR ERV-2, 501	1.66		
39	20/1	DDC J-BOX, 305		0.15		40	20/1	SPARE		0	
41	20/1	(*) REC-EWC, H2			1.2	42	20/1	SPARE			
43	20/1	(**) REC-HOT BOX	1.5			44	20/1	SPARE	0		
45	20/1	(**) REC-HOT BOX	ļ	1.5	ļ	46	20/1	SPARE	ļ	0	
47	20/1	SPARE			0	48	20/1	SPARE	ļ		
49	20/1	SPARE	0			50	20/1	SPARE	0		
51	20/1	SPARE	ļ	0	_	52	20/1	SPARE	ļ	0	
53	20/1	SPARE			0	54	20/1		077	00.7	
								TAL CONNECTED AMPS BY PHASE	23.3	20.7	20
		CONN KVA CAL	 C KVA				101/	AL CONNECTED AMPS BY PHASE	195	173	1
		·									
LIGH		0.1 0.125	•	.5%)			PTACLES	11.1 10.5	•	\$>10) ~`\	
	GEST MOT		(25	•			NUOUS	3 3.75	(125	•	
MOT	JK2	21.8 21.8	(10	0%)		DIVER	ONTINUOU SE	JS 4.45 4.45 24.1 0	(100 (0 %)	•	
						τοτδι	LOAD	43.7			
								PHASE LOAD 121 A			



	FEE	ΕĽ)]
	ID		
<	30	$\left(\right)$	
<	60/2	\geq	6
\langle	70	$\left \right\rangle$	-
<	100.A	\geq	-
\langle	125D	\rangle	1
\langle	175D	\rangle	1
\langle	200J	$\left \right\rangle$	
\langle	225J	\rangle	4
	250D	\rangle	
\langle	800.B	\rangle	8
\langle	800U.A	\mathbf{i}	8



	FIRE ALARM OPERATION MATRIX
SYS	TEM INPUTS
1	MANUAL PULL STATIONS
2	SMOKE DETECTORS
3	
4	DUCT DETECTORS
	DUCT DETECTORS SPRINKLER SYSTEM WATERFLOW
5	
	SPRINKLER SYSTEM WATERFLOW
5	SPRINKLER SYSTEM WATERFLOW SPRINKLER SYSTEM VALVES - TAMPER SWITCH
5 6	SPRINKLER SYSTEM WATERFLOW SPRINKLER SYSTEM VALVES - TAMPER SWITCH FIRE ALARM SYSTEM POWER FAILURE
5 6 7	SPRINKLER SY STEM WATERFLOW SPRINKLER SY STEM VALVES - TAMPER SWITCH FIRE A LARM SY STEM POWER FAILURE FIRE A LARM SY STEM LOW BATTERY
5 6 7 8	SPRINKLER SY STEM WATERFLOW SPRINKLER SY STEM VALVES - TAMPER SWITCH FIRE A LARM SY STEM POWER FAILURE FIRE A LARM SY STEM LOW BATTERY OPEN CIRCUIT SHORT CIRCUIT
5 6 7 8 9	SPRINKLER SYSTEM WATERFLOW SPRINKLER SYSTEM VALVES - TAMPER SWITCH FIRE A LARM SYSTEM POWER FAILURE FIRE A LARM SYSTEM LOW BATTERY OPEN CIRCUIT SHORT CIRCUIT
5 6 7 8 9 10	SPRINKLER SY STEM WATERFLOW SPRINKLER SY STEM VALVES - TAMPER SWITCH FIRE ALARM SY STEM POWER FAILURE FIRE ALARM SY STEM LOW BATTERY OPEN CIRCUIT SHORT CIRCUIT GROUND FAULT
5 6 7 8 9 10 11	SPRINKLER SY STEM WATERFLOW SPRINKLER SY STEM VALVES - TAMPER SWITCH FIRE A LARM SY STEM POWER FAILURE FIRE A LARM SY STEM LOW BATTERY OPEN CIRCUIT SHORT CIRCUIT GROUND FAULT AHU SHUTDOWN DEFEAT SWITCH
5 6 7 8 9 10 11 12	SPRINKLER SYSTEM WATERFLOW SPRINKLER SYSTEM VALVES - TAMPER SWITCH FIRE A LARM SYSTEM POWER FAILURE FIRE A LARM SYSTEM LOW BATTERY OPEN CIRCUIT SHORT CIRCUIT GROUND FAULT A HU SHUTDOWN DEFEAT SWITCH CARBON MONOXIDE DETECTORS
5 6 7 8 9 10 11 12 13	SPRINKLER SY STEM WATERFLOW SPRINKLER SY STEM VALVES - TAMPER SWITCH FIRE ALARM SY STEM POWER FAILURE FIRE ALARM SY STEM LOW BATTERY OPEN CIRCUIT SHORT CIRCUIT GROUND FAULT AHU SHUTDOWN DEFEAT SWITCH CARBON MONOXIDE DETECTORS ERCCS ANTENNA MALFUNCTION
5 6 7 8 9 10 11 12 13 14	SPRINKLER SY STEM WATERFLOW SPRINKLER SY STEM VALVES - TAMPER SWITCH FIRE A LARM SY STEM POWER FAILURE FIRE A LARM SY STEM LOW BATTERY OPEN CIRCUIT SHORT CIRCUIT GROUND FAULT AHU SHUTDOWN DEFEAT SWITCH CARBON MONOXIDE DETECTORS ERCCS ANTENNA MALFUNCTION ERCCS BDA FAILURE
5 6 7 8 9 10 11 12 13 14 15	SPRINKLER SY STEM WATERFLOW SPRINKLER SY STEM VALVES - TAMPER SWITCH FIRE ALARM SY STEM POWER FAILURE FIRE ALARM SY STEM LOW BATTERY OPEN CIRCUIT SHORT CIRCUIT GROUND FAULT A HU SHUTDOWN DEFEAT SWITCH CARBON MONOXIDE DETECTORS ERCCS ANTENNA MALFUNCTION ERCCS BDA FAILURE ERCCS LOW BATTERY
5 6 7 8 9 10 11 12 13 14 15 16	SPRINKLER SYSTEM WATERFLOW SPRINKLER SYSTEM VALVES - TAMPER SWITCH FIRE ALARM SYSTEM POWER FAILURE FIRE ALARM SYSTEM LOW BATTERY OPEN CIRCUIT SHORT CIRCUIT GROUND FAULT AHU SHUTDOWN DEFEAT SWITCH CARBON MONOXIDE DETECTORS ERCCS ANTENNA MALFUNCTION ERCCS BDA FAILURE ERCCS LOW BATTERY ERCCS AC POWER LOSS
5 6 7 8 9 10 11 12 13 14 15 16 17	SPRINKLER SYSTEM WATERFLOW SPRINKLER SYSTEM VALVES - TAMPER SWITCH FIRE A LARM SYSTEM POWER FAILURE FIRE A LARM SYSTEM LOW BATTERY OPEN CIRCUIT SHORT CIRCUIT GROUND FAULT AHU SHUTDOWN DEFEAT SWITCH CARBON MONOXIDE DETECTORS ERCCS ANTENNA MALFUNCTION ERCCS BDA FAILURE ERCCS LOW BATTERY ERCCS AC POWER LOSS ERCCS SYSTEM COMPONENTS FAILURE

