

FORT MILL SCHOOL DISTRICT

NATION FORD ALTERNATIVE SCHOOL MODULAR

FORT MILL, SC

Issue Date/ Description: 5.10.2023 CD SET
 MPS Project No: 023142.00
 Agency Review ID: 1695

OWNER

FORT MILL SCHOOL DISTRICT
 2233 DEERFIELD DRIVE
 FORT MILL, SC 29715
 ROMENICKJ@FORTMILLSCHOOLS.ORG
 MR. JOE ROMENICK

GENERAL CONTRACTOR

TBD

ARCHITECT

McMILLAN PAZDAN SMITH ARCHITECTURE
 1422 SOUTH TRYON STREET, SUITE 700
 CHARLOTTE, NC 28203
 980.267.3639
 CBOUDREAU@MCMILLANPAZDANSMITH.COM
 MR. CORY BOUDREAU

CIVIL

CAMPCO ENGINEERING
 156 OAKLAND AVENUE
 ROCK HILL, SC 29730
 803-327-7121
 AWALTERS@CAMPCOENGINEERING.COM
 MR. AL WALTERS

STRUCTURAL

ADC ENGINEERING
 1226 YEAMANS HALL RD
 HANAHAN, SC 29410
 843.566.0161
 MARKD@ADCENGINEERING.COM
 MR. MARK DILLON

PLUMBING

N/A

MECHANICAL

N/A

ELECTRICAL

OPTIMA ENGINEERING
 1927 S. TRYON ST, SUITE 300
 CHARLOTTE, NC 28203
 704.338.1292
 MMAZZONE@OPTIMAENGINEERING.COM
 MR. MIKE MAZZONE

FIRE PROTECTION

N/A

DRAWING LIST

GENERAL	CIVIL	STRUCTURAL	ARCHITECTURAL	ELECTRICAL	REFERENCE
G001 COVER SHEET	C2 SURVEY SHEET	S001 GENERAL NOTES	A001 ABBREVIATION, SYMBOLS AND LEGENDS	E001 ELECTRICAL LEGEND AND NOTES	R-1 COVER SHEET
G002 LIFE SAFETY PLAN	C2.1 DEMOLITION PLAN	S101 FOUNDATION PLAN	A100 ARCHITECTURAL SITE PLAN	E003 ELECTRICAL DIAGRAMS	R-2 FLOOR PLAN
G003 OSF F3 FORMS	C3 SITE PLAN		A101 FIRST FLOOR PLAN	E101 ELECTRICAL SITE PLAN	R-3 ELECTRICAL
	C3.1 LIFE SAFETY SITE PLAN		A300 BUILDING ELEVATIONS AND SECTIONS	E201 LEVEL 1 POWER FLOOR PLAN	R-4 MECHANICAL
	C3.2 SITE DETAILS				R-5 PLUMBING PLAN
	C3.3 SITE DETAILS				R-6 CROSS SECTION
	C4.0 GRADING PLAN				R-7 FOUNDATION
	C5.0 EROSION STAGE 1 PLAN CONTROL				R-8 ALT FOUNDATION
	C5.1 EROSION STAGE 2 PLAN CONTROL				
	C5.2 EROSION DETAILS				
	C5.3 EROSION DETAILS				
	C5.4 EROSION DETAILS				
	C6.0 STORM PLAN				
	C6.1 STORM DETAILS				
	C7.0 WATER PLAN				
	C7.1 SANITARY PLAN				
	C7.2 WATER & DETAILS				
	C7.3 WATER & DETAILS				
	C1 GENERAL NOTES				
	L1.0 LANDSCAPE PLAN				
	L1.1 LANDSCAPE DETAILS				

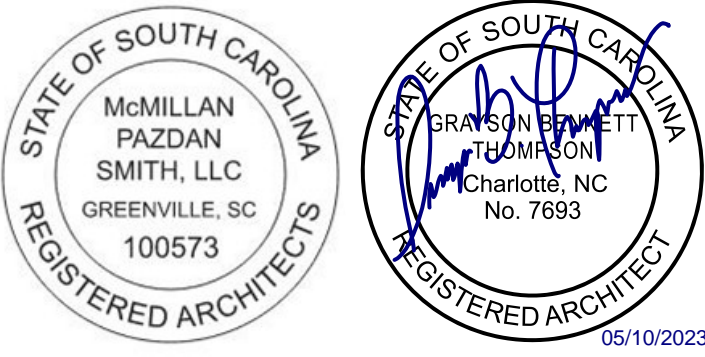
DESIGN AND CONSTRUCTION RELATED PERMITS AND APPROVALS

Type of Development	SC Law or Reg.	Where to Obtain Permit/Approval	Status
Air pollutant discharge	48-1-100, R61-62.1	SCDHEC - Bureau of Air Quality	N/A
Asbestos abatement	R61-86.1	SCDHEC - Bureau of Air Quality	N/A
Building construction, Zoning	6-7-830, 6-9-110	Local Authority	IN PROGRESS
Community residential care facilities	R61-84	SCDHEC - Healthcare Facilities Licensing	N/A
Construction in critical coastal areas	48-39-10, 130.190	SCDHEC - Ocean & Coastal Res. Mgmt.	N/A
Construction in navigable waters	49-01-16	SCDHEC - Bureau of Water	N/A
Dams and reservoirs	49-11-200, R72-1, 2, 3	SCDHEC - Bureau of Water	N/A
Demolition of Real Property	R61-86.1	SCDHEC - Bureau of Air Quality	N/A
Design Review Board (BARs, SC Dept. Archives & History, etc.)	Various local	Various local	N/A
Early Childhood Development	R114-500	SCDSS - Child Care Licensing	N/A
Elevators	41-16-10, R71-5000-5900	SCLLR	N/A
Fire Department (Local)	Various local & State	Servicing Fire Department	IN PROGRESS
Fire, Building Automatic Sprinkler System and underground supply	40-10-260, R71-8300.4	State Fire Marshal	N/A
Floodplains, construction in	Exec. Order 82-19	SCDNR	N/A
Food service including concession and temporary	R61-25	SCDHEC - State and Local Office	N/A
Hazardous waste management, Storage and disposal	44-56-20.60.R. 61-79	SCDHEC - Bureau of Land & Waste Management	N/A
Historical building rehabilitation	R12-125, 126	Archives and History, Local Authority	N/A
Road encroachment, local road	57-7-60	Local City or County Authority	N/A
Road encroachment, state road	57-5-1080	SCDOT Traffic Engineering Office	N/A
Sanitary sewer, grease trap	Various local	Local City or County Wastewater Authority	N/A
Sanitary sewer, treatment & disposal	R61-56, 57	SCDHEC - Bureau of Water	IN PROGRESS
Septic tank system	R. 61-56	SCDHEC - Bureau of Environmental Health Services	N/A
Storm water discharge, erosion and sediment control	R61-9, R72-100-108	SCDHEC - Bureau of Water, State Engineer, Local Authority	IN PROGRESS
Swimming areas, natural public	R61-50	SCDHEC - Bureau of Water	N/A
Swimming pools, public	R61-51	SCDHEC - Bureau of Water	N/A
Underground storage tanks	R61-92	SCDHEC - Bureau of Land & Waste Management	N/A
Waste discharge (sewage, industrial waste, etc.)	48-1-100, 110, R61-9	SCDHEC - Bureau of Water	N/A
Water supply, potable	44-55-40, R61-57, 58	SCDHEC - Bureau of Water	IN PROGRESS
Water supply, fire protection system	40-10-260, R71-8300.4	State Fire Marshal	N/A
Wells, Underground injection	R61-71, 87	SCDHEC - Bureau of Land & Waste Management	N/A
Vocational facilities	Various	SCLLR Board of Cosmetology, SCLLR Board of Barber Examiners, SCDHEC Food Service	N/A
Zoning(Municipal, County or District)	Various	Local	N/A



CONSULTANT LOGO

SEALS



FORT MILL SCHOOL DISTRICT
 NATION FORD ALTERNATIVE
 SCHOOL MODULAR
 FORT MILL, SC

NO.	DATE	DESCRIPTION	BY
0	5.10.2023	CD SET	

CD SET 05.10.2023
 PRINCIPAL IN CHARGE: GST
 PROJECT ARCHITECT: CAB
 DRAWN BY: MPS

SHEET TITLE:
COVER SHEET

SHEET NO. PROJ. NO.
 023142.00

G001

1

2

3

4

5

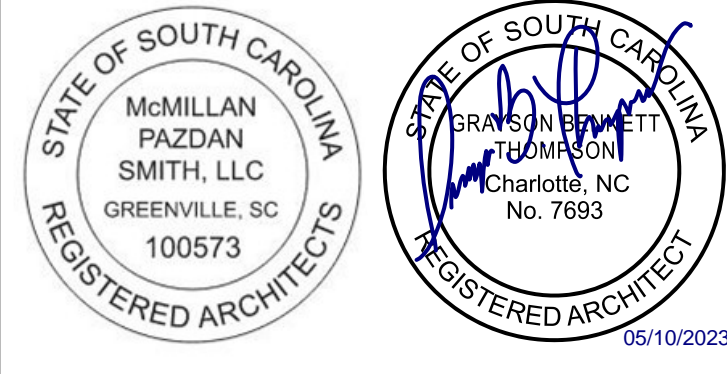
GENERAL NOTES

- A. OWNER TO INSTALL JCI FIRE ALARM SYSTEM PANEL IN PORTABLES AND FULLY INTEGRATE INTO CAMPUS SYSTEM. CONTRACTOR TO COORDINATE WITH OWNER ON THIS INSTALLATION.
- B. FIRE SPRINKLER SYSTEM NOT PROVIDED.
- C. FIRE LANE CLEARANCE PROVIDED AROUND PERIMETER OF PORTABLES PER CITADEL FIRE MARSHAL. SEE SHEET A100.
- D. PORTABLE FIRE EXTINGUISHERS (MULTIPURPOSE) TO BE PROVIDED BY CONTRACTOR.
- E. NEW PORTABLE BUILDING. BASIS OF DESIGN: VANGUARD MODULAR BUILDING SYSTEMS. PORTABLE BUILDING TO BE REVIEWED AND APPROVED BY SC LLR PRIOR TO INSTALLATION.

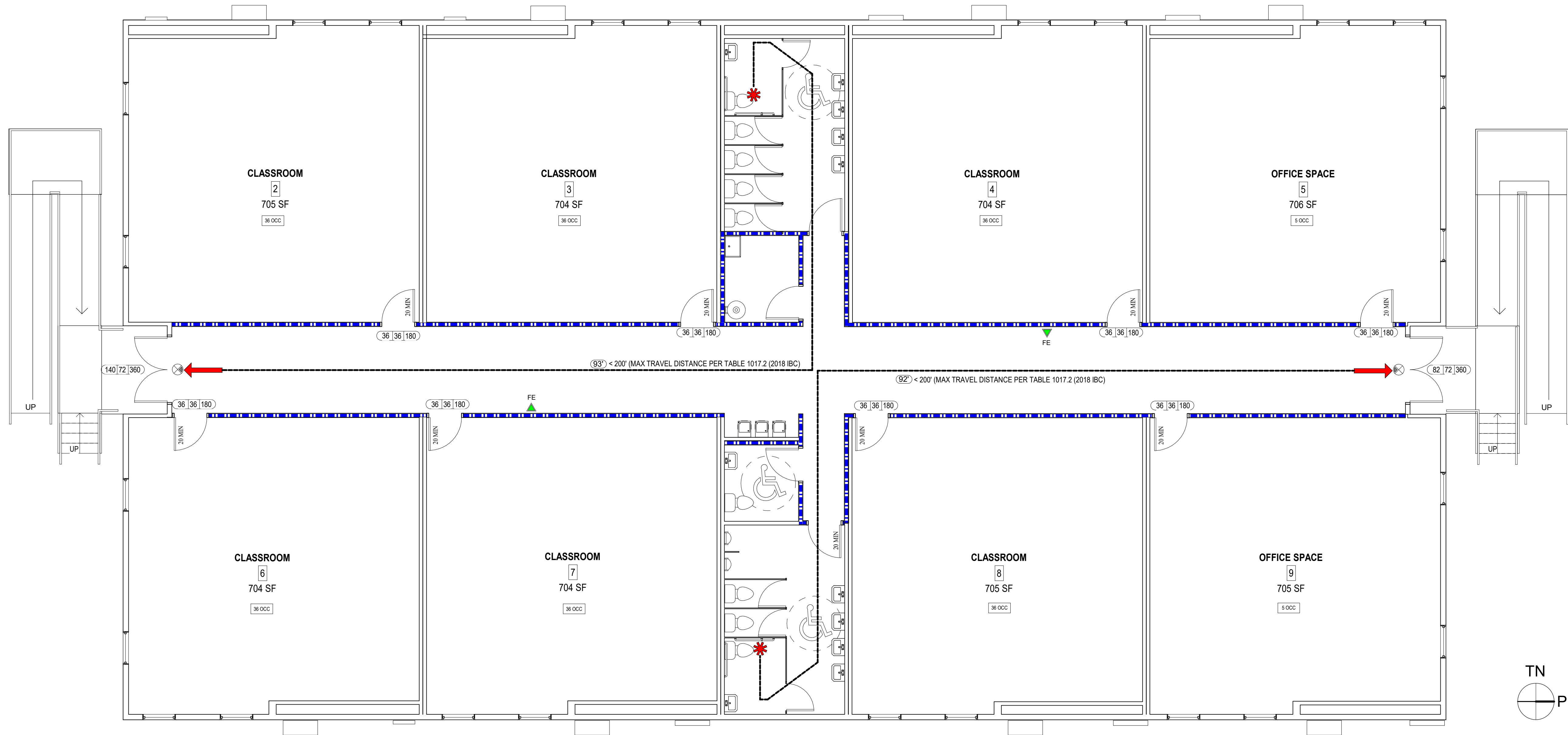


CONSULTANT LOGO

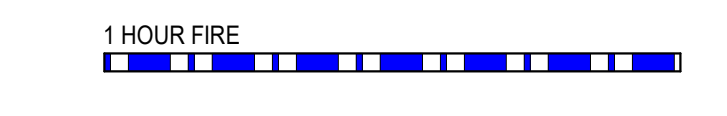
SEALS



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RATED WALLS LEGEND



LIFE SAFETY LEGEND

- EXIT LIGHTING LEGEND**
- CEILING MOUNTED EXIT SIGN (ARROWS WHEN INDICATED)
 - WALL MOUNTED EXIT SIGN (ARROWS WHEN INDICATED)
 - EXISTING CEILING MOUNTED EXIT SIGN (ARROWS WHEN INDICATED)
- EGRESS PATH LEGEND**
- COMMON PATH OF TRAVEL
- OCCUPANT LOAD LEGEND**
- OCCUPANT LOAD
- EGRESS DOOR TAG LEGEND**
- DOOR EXIT OCCUPANT LOAD
 - DOOR EXIT OCCUPANT CAPACITY
 - DOOR CLEAR EXIT WIDTH (IN INCHES)

FORT MILL SCHOOL DISTRICT
 NATION FORD ALTERNATIVE
 SCHOOL MODULAR
 FORT MILL, SC

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY
0	5.10.2023	CD SET	

CD SET	05.10.2023
PRINCIPAL IN CHARGE:	GST
PROJECT ARCHITECT:	CAB
DRAWN BY:	MPS

SHEET TITLE:
LIFE SAFETY PLAN

SHEET NO.	PROJ. NO.
G002	023142.00

G002

Form F3 - Building Code Analysis
Date: 05/10/2023
SUBMITTAL: [] Schematic [] Design Development [X] Construction Document
SC CODE EDITION: 2021 ICC CODE EDITION: 2021 ICC A17.1 EDITION: 2017 OSF GUIDE EDITION: 2020
OTHER CODES/STANDARDS & EDITIONS:
PROJECT DESCRIPTION: RELOCATION OF A PORTABLE UNIT FROM ANOTHER SCHOOL TO NATION FORD HIGH SCHOOL CAMPUS
BASIC BUILDING CODE INFORMATION
DESIGNATED AREAS OF BUILDING: BUILDING CODE AREA 1
CONSTRUCTION CLASSIFICATION TYPE: Section 602 YB
OCCUPANCY GROUP (indicate all): Section 502 E
MOST RESTRICTIVE OCCUPANCY GROUP: Section 502 E
Does building require incidental Use Area Separation? [X] YES [] NO
Does building have Accessory Occupancy (es)? [X] YES [] NO
What is the aggregate square footage of the accessory occupancy (es)? Section 508.2 NA
What percent of the story is the aggregate of the accessory occupancy (es)? Section 508.2 X%
Mixed Occupancy: [X] YES [] NO
[] Nonseparated
[] Separated

Page 1 of 20 Version April 2021

Table with columns for Building Code, Area 1, Area 2, Area 3, Area 4, Area 5. Includes sections for Allowable building area per story, Maximum area per story, and Area as designed per story.

Page 6 of 20

Table with columns for Designated Areas of Building, Building Code, Area 1, Area 2, Area 3, Area 4, Area 5. Includes sections for Fire Resistance Rating of Building Elements and Fire Hazard Information and Flood Loads.

Page 11 of 20

Table with columns for Soils & Site, Structural Design Information, Building, Wind Loads, Seismic Loads, and Elevations. Includes sections for Soils Investigation, Seismic Site Class, and Footings.

Page 16 of 20

Table with columns for Existing Building Code Information (SCEB) Area 1, Area 2, Area 3. Includes sections for Designated Areas of Building, Building Code, and Building Height.

Page 2 of 20

Table with columns for Designated Areas of Building, Building Code, Area 1, Area 2, Area 3. Includes sections for Building Height and Building Code.

Page 7 of 20

Table with columns for Designated Areas of Building, Building Code, Area 1, Area 2, Area 3, Area 4, Area 5. Includes sections for Fire Resistance Rating of Building Elements and Fire Hazard Information and Flood Loads.

Page 12 of 20

Table with columns for Statement of Special Inspections - Chapter 17. Includes sections for Material, Type of Inspection, Frequency, Specification Reference, and Inspection By.

Page 17 of 20

Table with columns for Existing Building Code Information (SCEB) Area 4, Area 5. Includes sections for Designated Areas of Building, Building Code, and Building Height.

Page 3 of 20

Table with columns for Designated Areas of Building, Building Code, Area 1, Area 2, Area 3, Area 4, Area 5. Includes sections for General Fire Protection Requirements and Fire Resistance Rating of Building Elements.

Page 8 of 20

Table with columns for Designated Areas of Building, Building Code, Area 1, Area 2, Area 3, Area 4, Area 5. Includes sections for Fire Resistance Rating of Building Elements and Fire Hazard Information and Flood Loads.

Page 13 of 20

Table with columns for Statement of Special Inspections - Chapter 17. Includes sections for Material, Type of Inspection, Frequency, Specification Reference, and Inspection By.

Page 18 of 20

Table with columns for Summary - Building Design Occupancy Load. Includes sections for Designated Areas of Building, Building Code, and Building Height.

Page 4 of 20

Table with columns for Designated Areas of Building, Building Code, Area 1, Area 2, Area 3, Area 4, Area 5. Includes sections for Fire Resistance Rating of Building Elements and Fire Hazard Information and Flood Loads.

Page 9 of 20

Table with columns for Designated Areas of Building, Building Code, Area 1, Area 2, Area 3, Area 4, Area 5. Includes sections for Fire Resistance Rating of Building Elements and Fire Hazard Information and Flood Loads.

Page 14 of 20

Table with columns for Plumbing Information, Summary of Fixtures, Mechanical Information, and Electrical Information. Includes sections for Water System, Sanitary Sewer System, and Building Information.

Page 19 of 20

Table with columns for Allowable Building Area. Includes sections for Designated Areas of Building, Building Code, and Building Height.

Page 5 of 20

Table with columns for Designated Areas of Building, Building Code, Area 1, Area 2, Area 3, Area 4, Area 5. Includes sections for Fire Resistance Rating of Building Elements and Fire Hazard Information and Flood Loads.

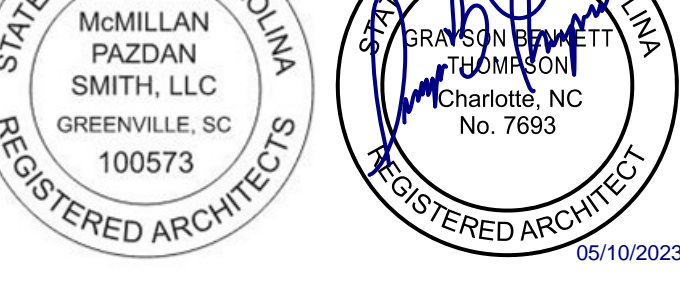
Page 10 of 20

Table with columns for Designated Areas of Building, Building Code, Area 1, Area 2, Area 3, Area 4, Area 5. Includes sections for Fire Resistance Rating of Building Elements and Fire Hazard Information and Flood Loads.

Page 15 of 20

Table with columns for Mechanical Information, Electrical Information, and Lightning Protection. Includes sections for Building Information, Electrical Service Information, and Emergency Generator.

Page 19 of 20



05/10/2023

FORT MILL SCHOOL DISTRICT
NATION FORD ALTERNATIVE SCHOOL MODULAR
FORT MILL, SC

SHEET ISSUE: NO. DATE DESCRIPTION BY
0 5.10.2023 CD SET

CD SET 05.10.2023
PRINCIPAL IN CHARGE: GBT
PROJECT ARCHITECT: CAB
DRAWN BY: MPS

SHEET TITLE: OSF F3 FORMS

SHEET NO. PROJ. NO.
023142.00

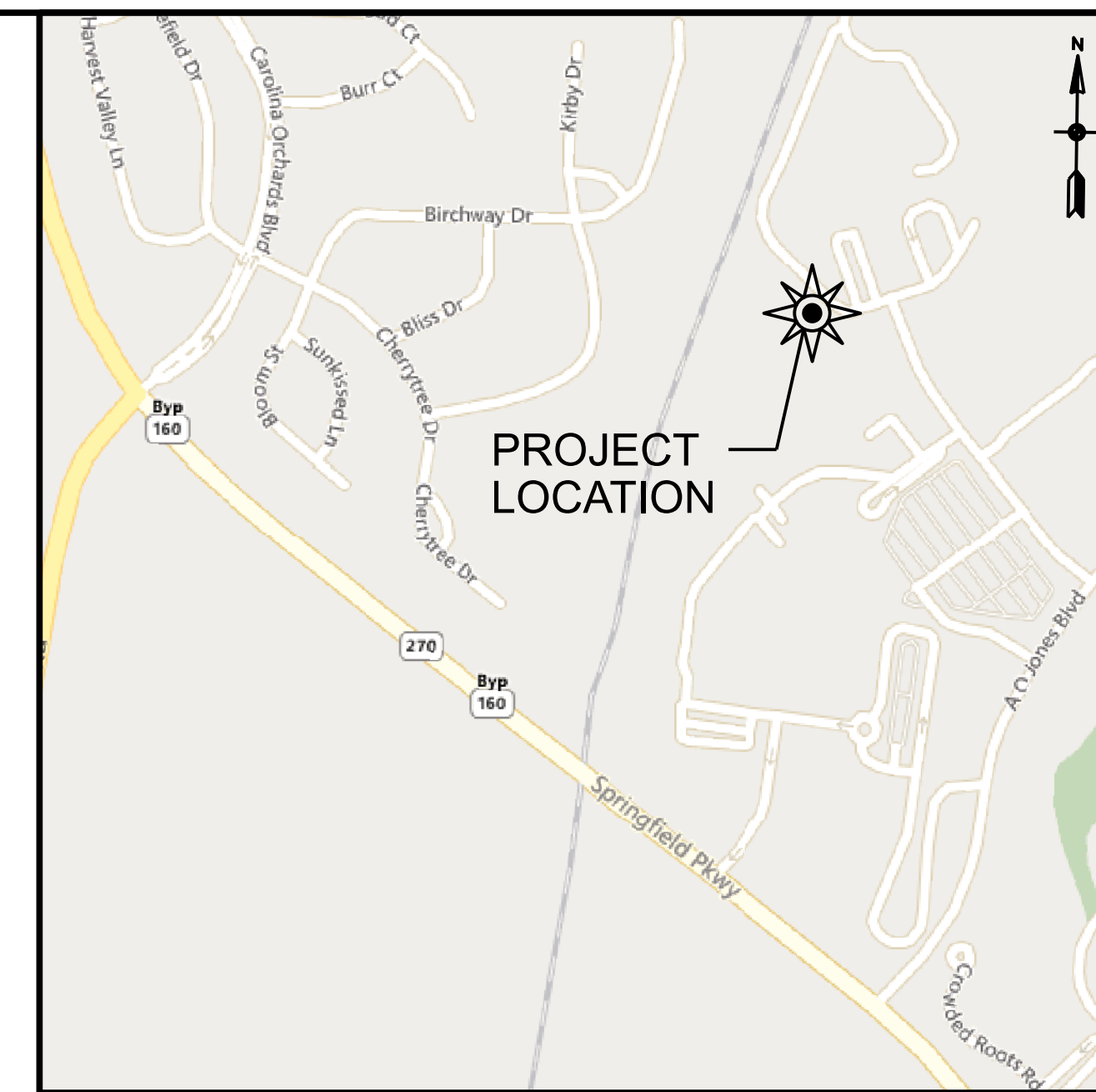
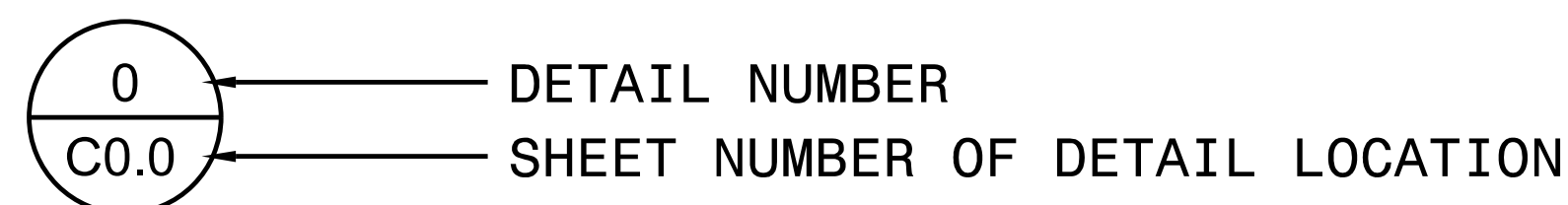
G003

PROJECT:
**FORT MILL SCHOOL DISTRICT
 ALTERNATIVE SCHOOL
 MODULAR CLASSROOM SITE**
 FORT MILL, SOUTH CAROLINA

OWNER:
 FORT MILL SCHOOL DISTRICT
 2233 DEERFIELD DRIVE
 FORT MILL, SC 29715
 TEL. (803) 548-2527

PLANS PREPARED BY:
CAMPCO ENGINEERING, INC.
 156 OAKLAND AVENUE
 ROCK HILL, SC 29730
 TEL. (803) 327-7121
WWW.CAMPCOENGINEERING.COM

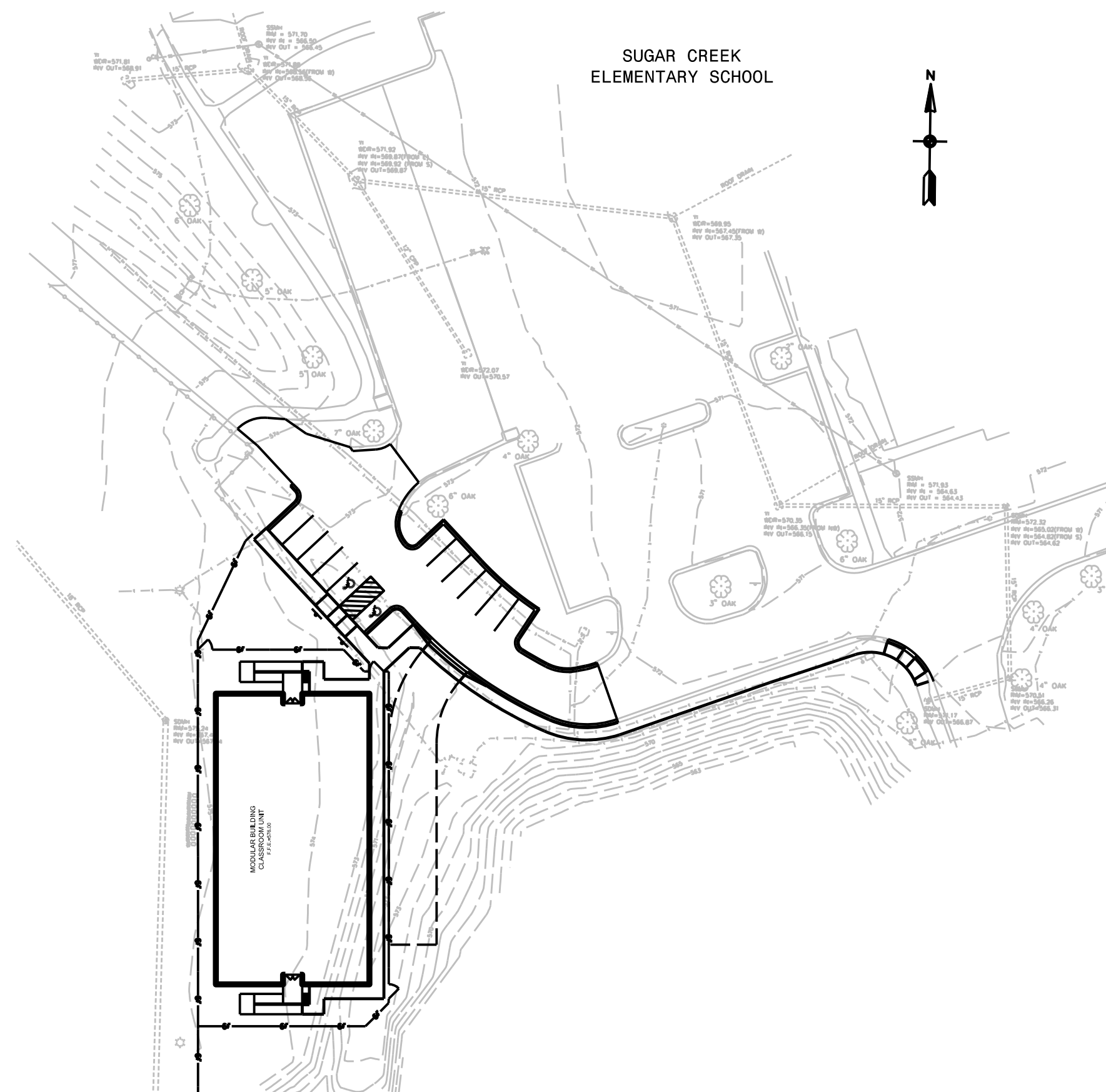
DETAIL REFERENCE SYMBOL



PROJECT LOCATION MAP
 SCALE: NTS

DRAWING INDEX

C1.0	COVER SHEET
C2.0	SURVEY
C2.1	DEMOLITION PLAN
C3.0	SITE PLAN
C3.1	LIFE SAFETY SITE PLAN
C3.2	SITE DETAILS
C3.3	SITE DETAILS
C4.0	GRADING PLAN
C5.0	EROSION CONTROL PLAN
C5.1	EROSION CONTROL DETAILS
C5.2	EROSION CONTROL DETAILS
C5.3	EROSION CONTROL DETAILS
C5.4	EROSION CONTROL DETAILS
C6.0	STORM DRAINAGE PLAN
C6.1	STORM DRAINAGE DETAILS
C7.0	WATER PLAN
C7.1	SANITARY SEWER PLAN & PROFILE
C7.2	WATER & SANITARY SEWER DETAILS
C7.3	WATER & SANITARY SEWER DETAILS
L1.0	LANDSCAPE PLAN
L1.1	LANDSCAPE DETAILS



GENERAL CONSTRUCTION NOTES

- EXISTING PLANIMETRIC AND TOPOGRAPHIC INFORMATION WAS OBTAINED FROM SURVEY BY R. JOE HARRIS & ASSOCIATES, INC. DATED 03/29/2023.
- THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN THE FIELD OR ON THE PLANS.
- MAINTENANCE OF TRAFFIC DURING CONSTRUCTION SHALL BE CONDUCTED IN ACCORDANCE WITH SCDOT STANDARDS AND SPECIFICATIONS.
- ALL CONSTRUCTION SHALL COMPLY WITH THE APPLICABLE SAFETY STANDARDS AND REQUIREMENTS.
- ALL EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE, AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT SOUTH CAROLINA 811 AT WWW.SC811.COM OR CALL 811 - 72 HOURS PRIOR TO DIGGING.
- THE CONTRACTOR SHALL COORDINATE RELOCATION/REMOVAL OF EXISTING UTILITIES WITH THE UTILITY OWNER AS APPLICABLE.
- THE CONTRACTOR SHALL REPAIR ALL EXISTING CONDITIONS DAMAGED BY CONSTRUCTION TO THE ORIGINAL CONDITION.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS FOR THE PROJECT AND THE REQUIREMENTS OF THE TOWN OF FORT MILL, YORK COUNTY, SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (SCDHEC), AND THE SOUTH CAROLINA DEPARTMENT TRANSPORTATION (SCDOT), WHERE APPLICABLE.
- FOR SCDOT STANDARD DRAWINGS REFERENCED IN THE CONSTRUCTION PLANS SEE THE SCDOT STANDARD DRAWING MANUAL.
- ALL MATERIALS, CONSTRUCTION, AND PLANS ARE TO COMPLY WITH CURRENT TOWN OF FORT MILL AND YORK COUNTY STANDARD SPECIFICATIONS AND DETAILS.
- THE DESIGN OF ALL EROSION CONTROL AND STORMWATER MANAGEMENT FEATURES FOR WATER QUALITY AND WATER QUANTITY AND OTHER BMPs, STORM DRAIN PIPING AND MANHOLES, CULVERTS, DITCHES, SWALES AND OTHER CHANNELS, ALL OUTFALLS TO THEIR RECEIVING WATERS, IN ADDITION TO ALL ROAD INFRASTRUCTURE, SANITARY SEWER AND WATER UTILITIES, AS PRESENTED HEREIN, HAS BEEN COMPLETED FROM FIELD SURVEY INFORMATION PREPARED BY A LICENSED SOUTH CAROLINA PROFESSIONAL LAND SURVEYOR.

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**FORT MILL SCHOOL DISTRICT
 ALTERNATIVE SCHOOL
 MODULAR CLASSROOM SITE**
 FORT MILL, SOUTH CAROLINA

REVISIONS		
NO.	DATE	DESCRIPTION

GENERAL NOTES

CE: 9869	ISSUED: 04-12-23
SCALE: 1"=50'	CAD FILE: 9869GNC1.0
C1.0	

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Campco Engineering, Inc.
Consulting Engineers since 1974

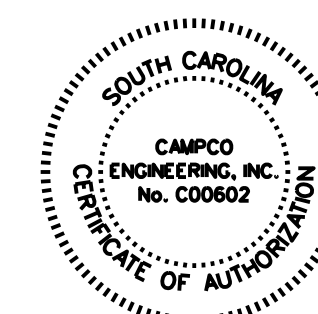
156 OAKLAND AVENUE, ROCK HILL, SC 29730
(803) 327-7121 WWW.CAMPCOENGINEERING.COM

**FORT MILL SCHOOL DISTRICT
ALTERNATIVE SCHOOL
MODULAR CLASSROOM SITE**
FORT MILL, SOUTH CAROLINA

REVISIONS

NO.	DATE	DESCRIPTION

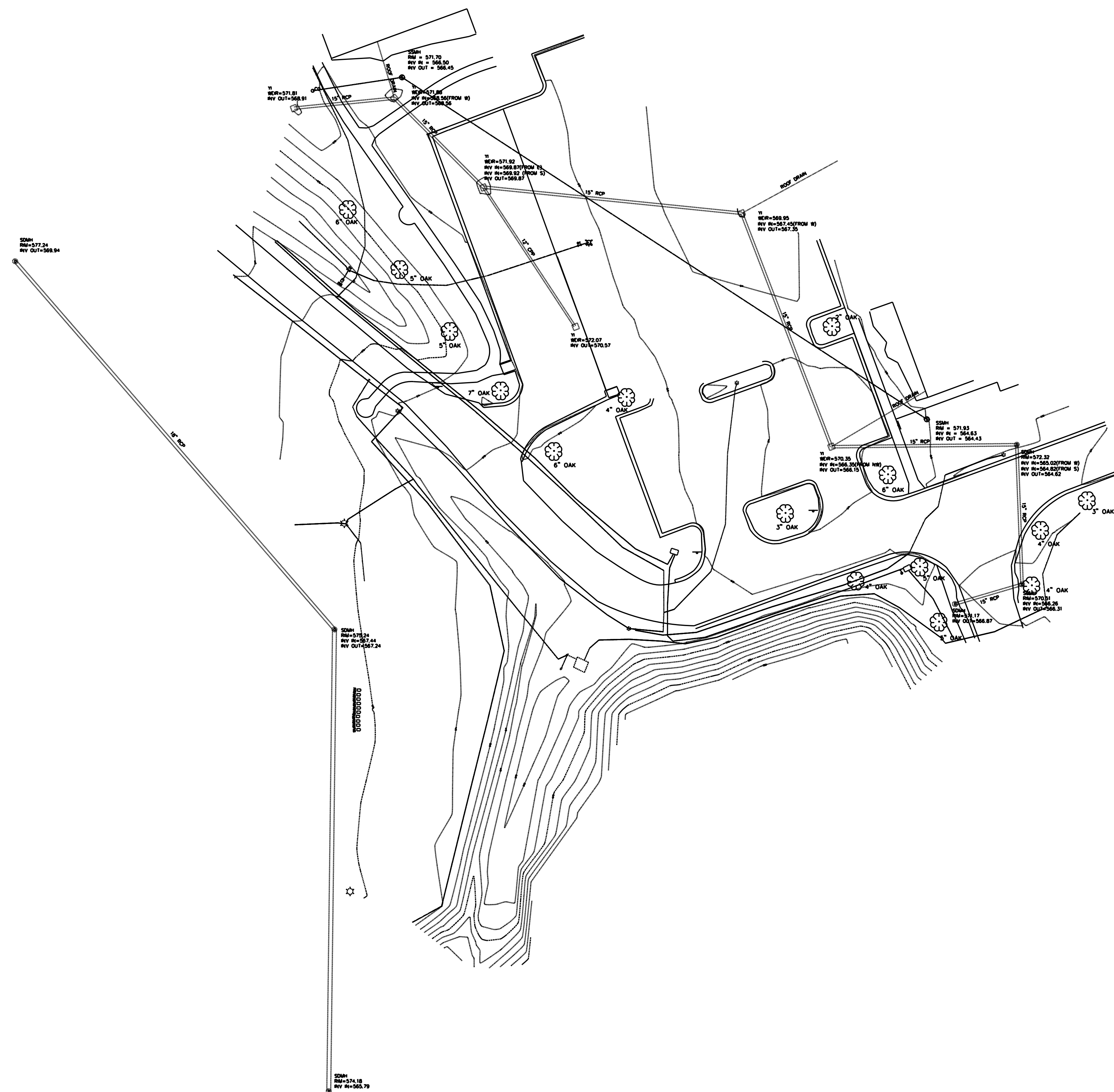
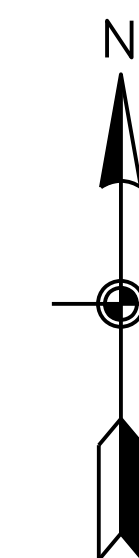
SURVEY SHEET



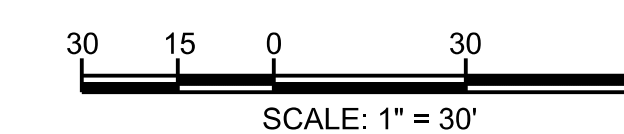
FOR INFORMATION ONLY

CE: 9869 ISSUED: 04-12-23
SCALE: 1"=30' CAD FILE: 9869SVC2.0

C2.0



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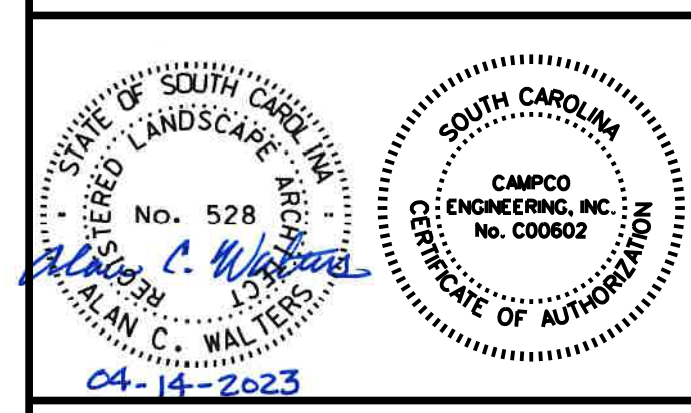
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156 OAKLAND AVENUE, ROCK HILL, SC 29730
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**FORT MILL SCHOOL DISTRICT
ALTERNATIVE SCHOOL
MODULAR CLASSROOM SITE**
FORT MILL, SOUTH CAROLINA

REVISIONS		
NO.	DATE	DESCRIPTION

DEMOLITION PLAN



CE: 9869 ISSUED: 04-12-23
SCALE: 1"=20' CAD FILE: 9869DMC2.1

C2.1

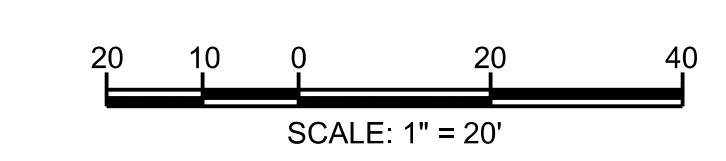


DEMOLITION NOTES:

- ALL DEBRIS FROM DEMOLITION SHALL BE REMOVED FROM THE SITE & DISPOSED IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REQUIREMENTS.
- COORDINATE RELOCATION & REMOVAL OF EXISTING UTILITIES WITH UTILITY OWNERS.

LEGEND

- SAW CUT & REMOVE EXISTING ASPHALT PAVEMENT & AGGREGATE BASE COURSE
- REMOVE EXISTING CONCRETE WALKS & PADS
- REMOVE EXISTING CURB & GUTTER
- REMOVE EXISTING FENCE
- EXISTING TREE TO BE REMOVED



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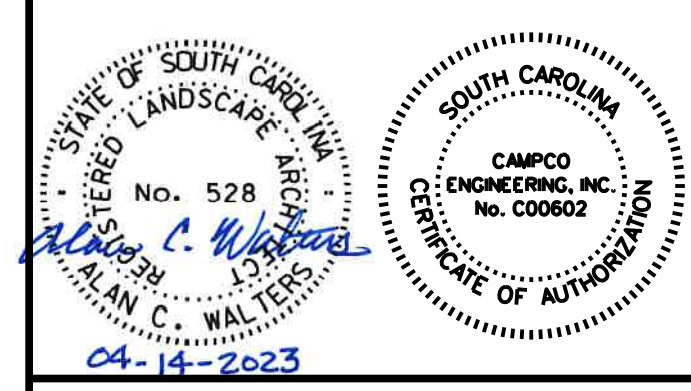
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**FORT MILL SCHOOL DISTRICT
ALTERNATIVE SCHOOL
MODULAR CLASSROOM SITE**
FORT MILL, SOUTH CAROLINA

- STAKING NOTES:
- ALL DIMENSIONS ARE TO BACK OF CURB WHERE CURB AND GUTTER IS SHOWN, TO FACE OF BUILDING, TO EDGE OF PAVEMENT, OR TO PROPERTY LINE UNLESS OTHERWISE NOTED.
 - ALL DIMENSIONS ARE 90 DEGREES UNLESS OTHERWISE NOTED.
 - ALL RADII ARE 3 FEET UNLESS OTHERWISE NOTED.
 - REFER TO ARCHITECTURAL PLANS FOR ALL BUILDING DIMENSIONS AND THE LOCATIONS OF ALL FENCING AND PIPE BOLLARDS WITHIN THE SERVICE AREA.
 - COORDINATE CONSTRUCTION AND LOCATION OF SIDEWALKS, STOOPS, STEPS, HANDRAIL, AND ACCESS DOORS WITH ARCHITECTURAL PLANS.
 - ALL FENCING, POST, RAILS, AND HARDWARE ARE TO BE BLACK VINYL COATED.
 - FOR PAVEMENT MARKING AND SIGNAGE REFER TO THIS SHEET.

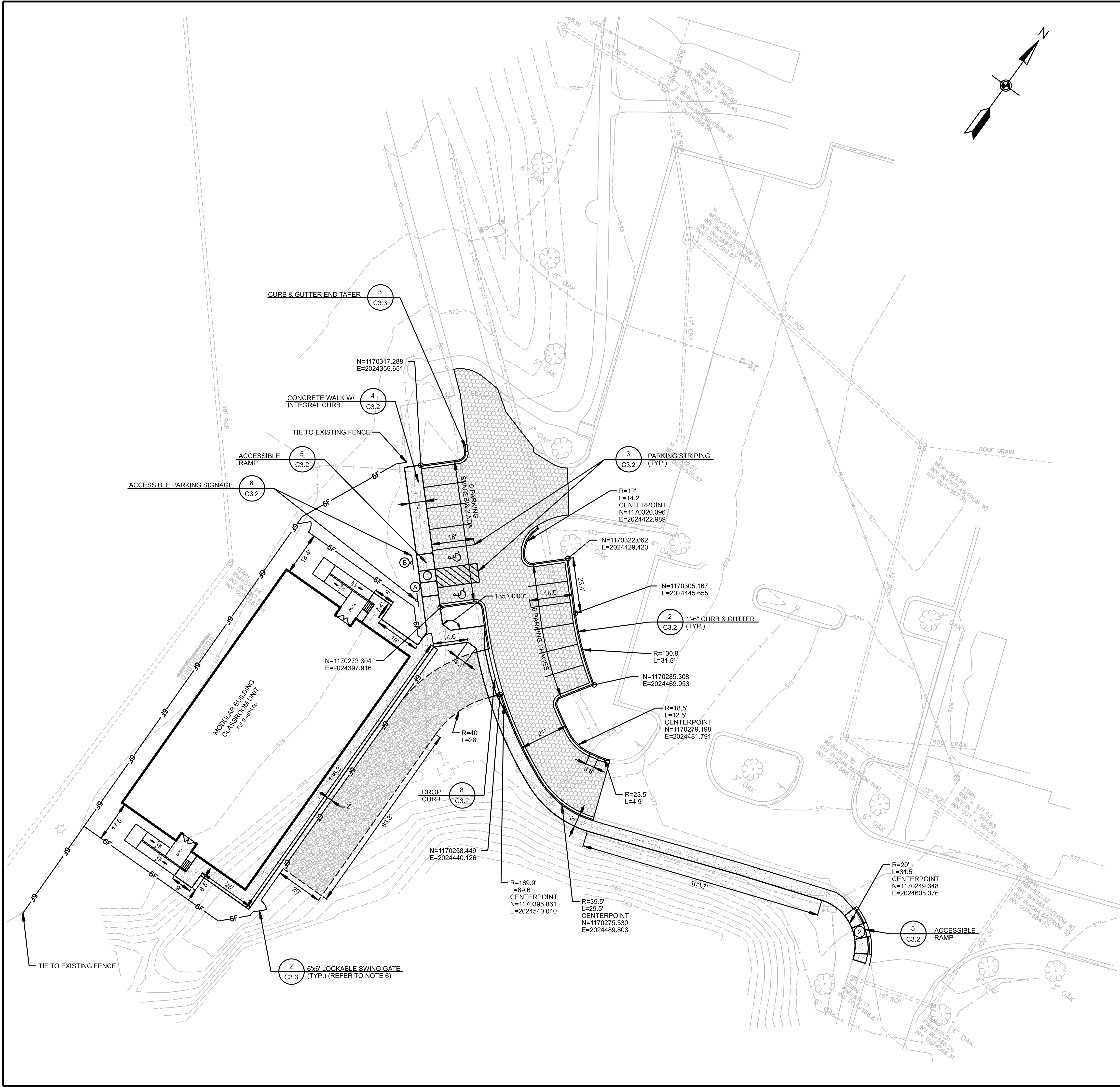
REVISIONS		
NO.	DATE	DESCRIPTION

SITE PLAN



LEGEND

- 1 (C3.2) AUTO PARKING PAVEMENT (SECTION-A)
- 4 (C3.2) 6" CONCRETE SIDEWALK (TYP.-UNLESS OTHERWISE NOTED)
- 1 (C3.3) 6" VINYL COATED CHAIN LINK FENCE (REFER TO NOTE 6)
- 7 (C3.2) GRAVEL FIRE ACCESS LANE
- ADA RAMP TYPE NUMBER (2)



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4/14/2023

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C3.0

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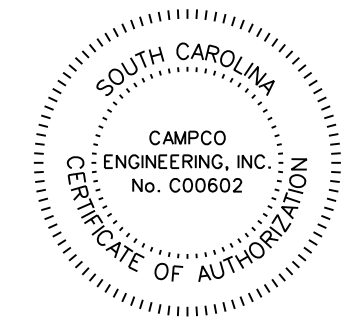


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**FORT MILL SCHOOL DISTRICT
ALTERNATIVE SCHOOL
MODULAR CLASSROOM SITE**
FORT MILL, SOUTH CAROLINA

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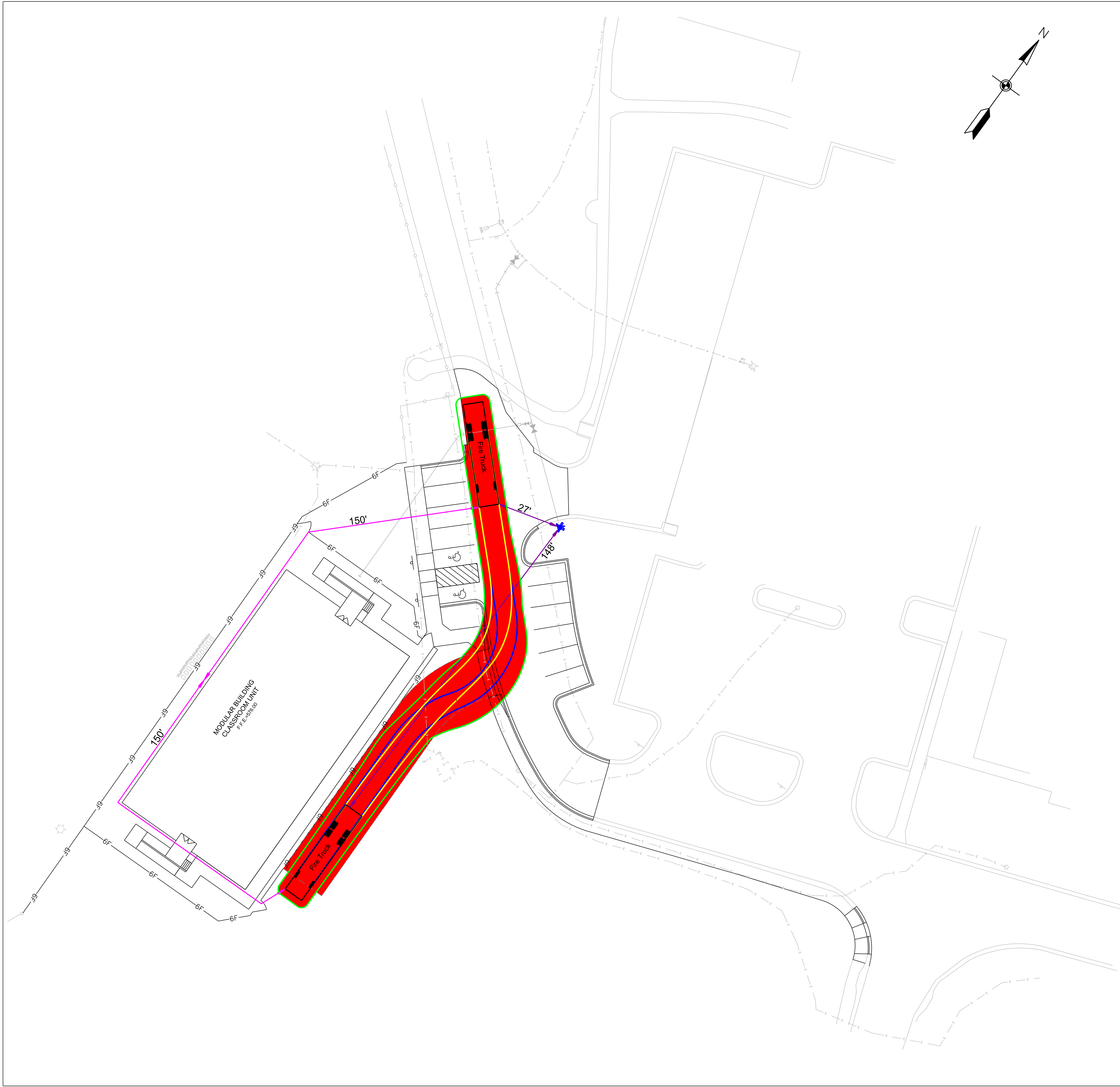
**LIFE SAFETY
SITE PLAN**



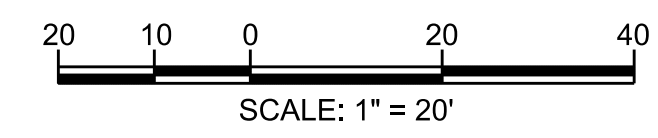
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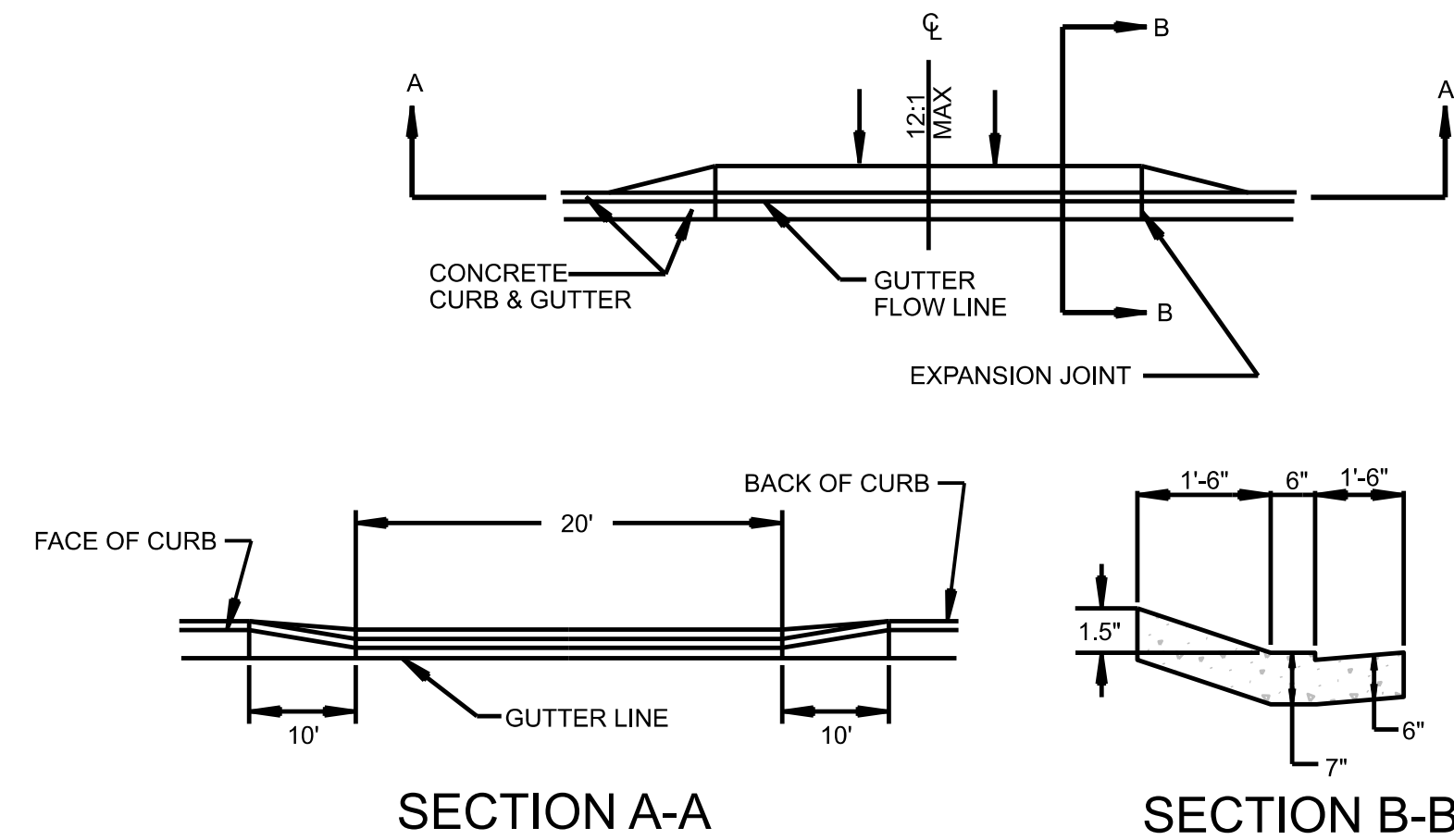
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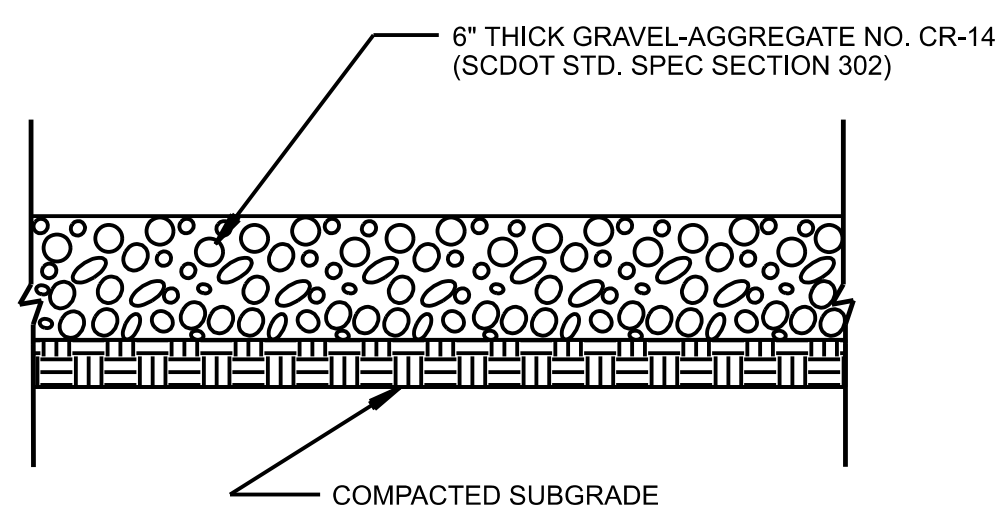


- LEGEND**
- FIRE TRUCK SET UP ZONE
 - FIRE TRUCK BODY PATH
 - FIRE TRUCK FRONT WHEEL PATH
 - FIRE TRUCK REAR WHEEL PATH
 - FIRE TRUCK
 - FIRE HOSE FROM TRUCK TO BUILDING
 - FIRE HOSE FROM HYDRANT TO TRUCK
 - FIRE HYDRANT ASSEMBLY





8 DROP CURB
C3.2 NTS

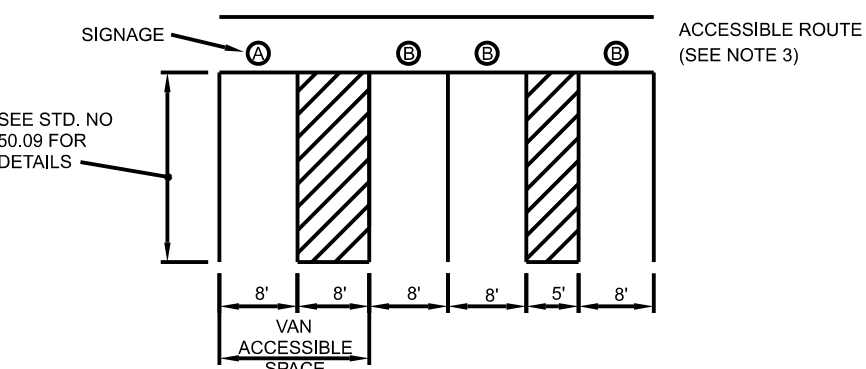


7 GRAVEL FIRE ACCESS LANE SECTION
C3.2 NTS

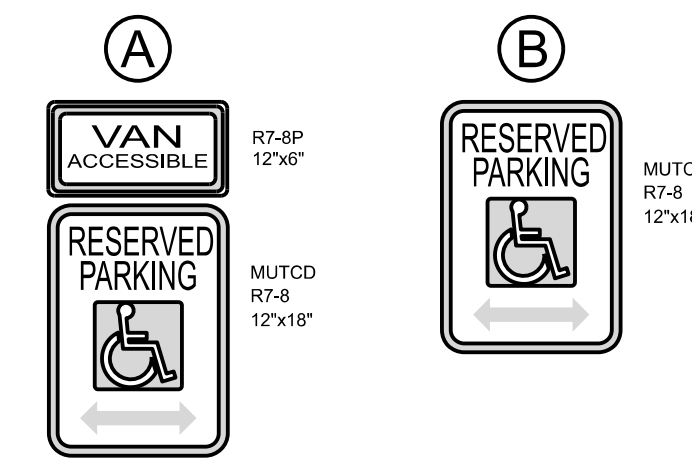
ACCESSIBLE PARKING REQUIREMENTS

TOTAL PARKING SPACES PROVIDED	MINIMUM NUMBER OF ACCESSIBLE SPACES REQUIRED	MINIMUM NUMBER OF ACCESSIBLE SPACES REQUIRED TO BE VAN ACCESSIBLE
1 TO 25	1	1
26 TO 50	2	1
51 TO 75	3	1
76 TO 100	4	1
101 TO 150	5	1
151 TO 200	6	1
201 TO 300	7	1
301 TO 400	8	1
401 TO 500	9	2
501 TO 1000	2% TOTAL	1 IN EVERY 8 ACCESSIBLE SPACES
1001 AND OVER	2% PLUS 1 FOR EACH 100 OVER 1000	1 IN EVERY 8 ACCESSIBLE SPACES

SECTION 4.1.2 (b) OF THE AMERICANS WITH DISABILITIES ACT (ADA), SEE 4.1.2 (5) (d) FOR MEDICAL CARE FACILITIES



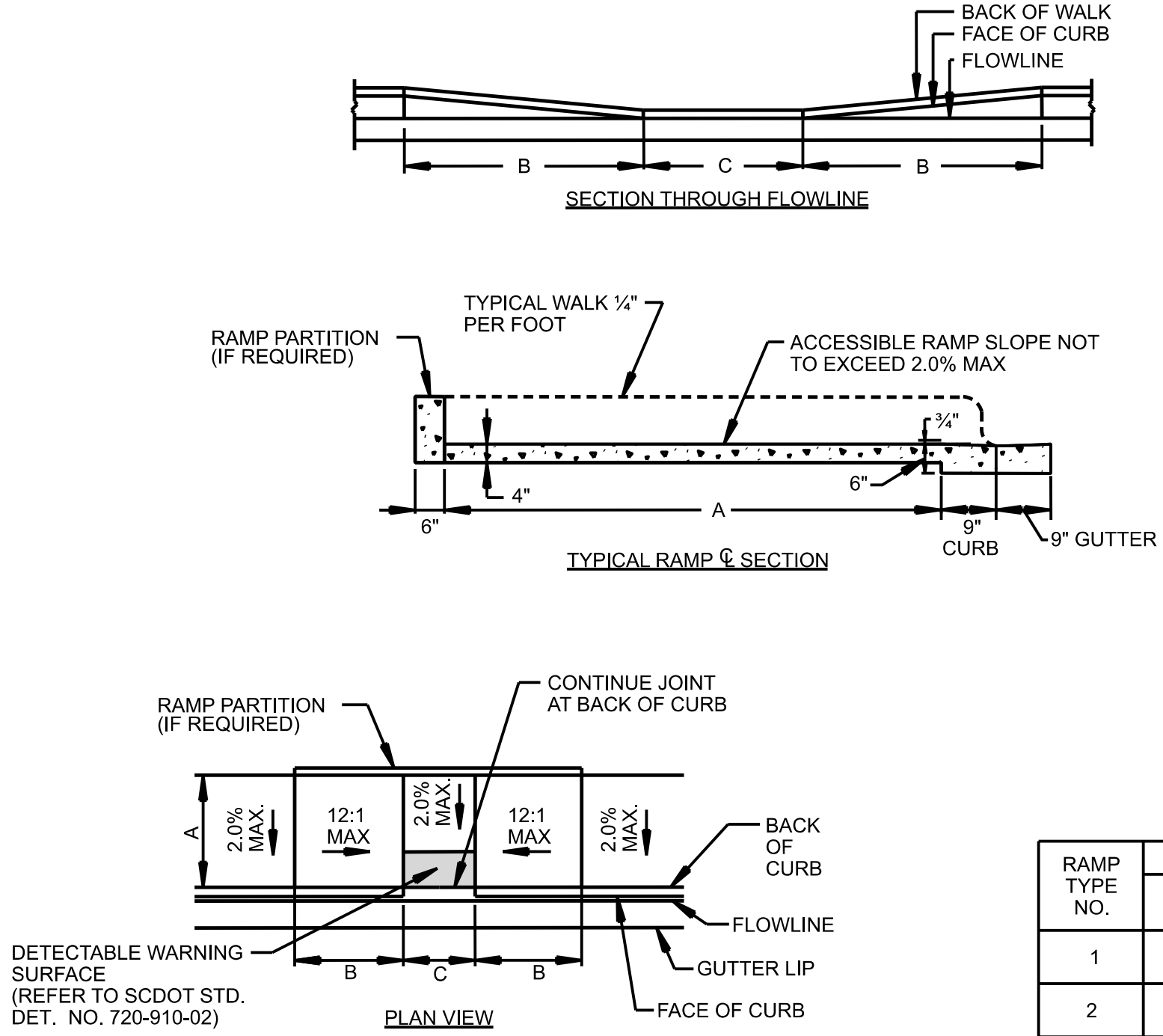
PARKING SPACE PAVEMENT MARKINGS



- NOTES:
- ALL 12" X 18" ACCESSIBLE SIGNS (R7-4) SHALL BE MOUNTED AT 7 FEET FROM GRADE TO BOTTOM EDGE OF SIGN FACE (MUTCD). MOUNTING HEIGHT CAN BE REDUCED TO 5 FEET IF PLACED IN AN AREA BETWEEN SIDEWALK AND BUILDING FACE IN WHICH PEDESTRIANS ARE NOT EXPECTED TO USE.
 - REFER TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION AND SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION SUPPLEMENT.
 - IF ACCESSIBLE ROUTE IS A RAISED SIDEWALK AREA, THEN RAMP IS REQUIRED AT LOADING ZONE AREA.

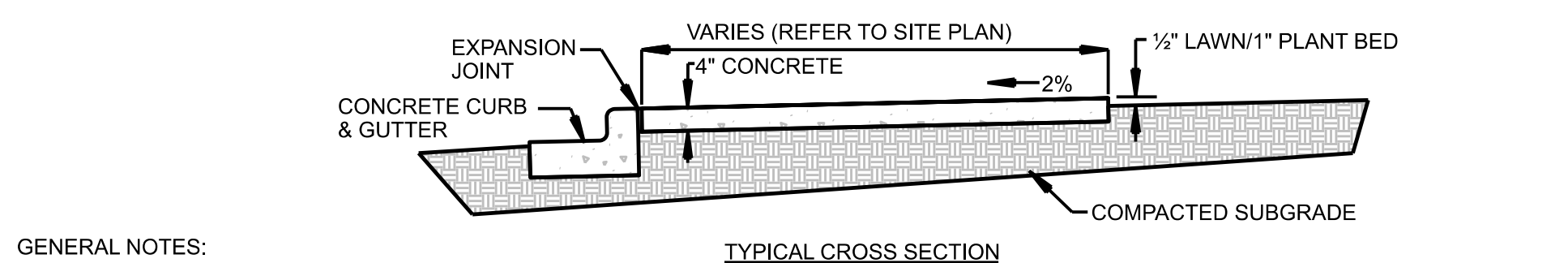
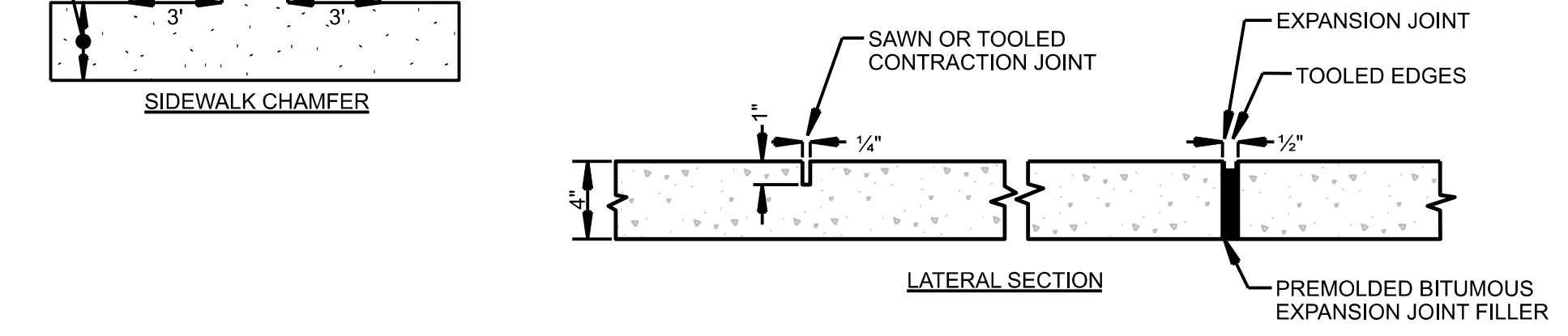
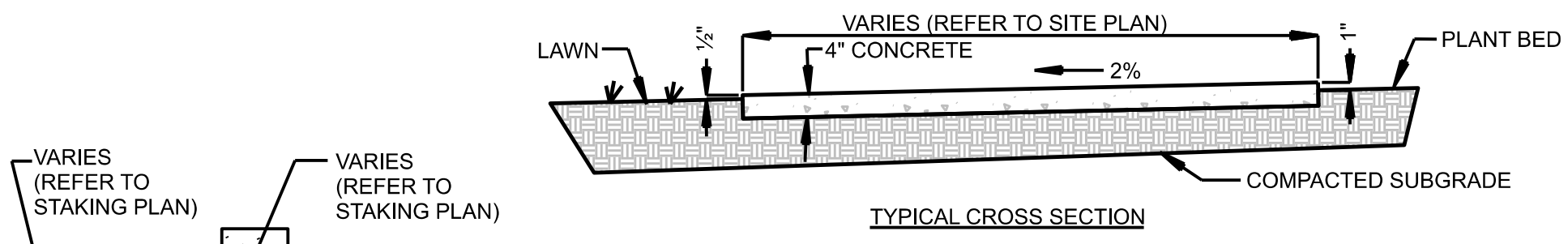
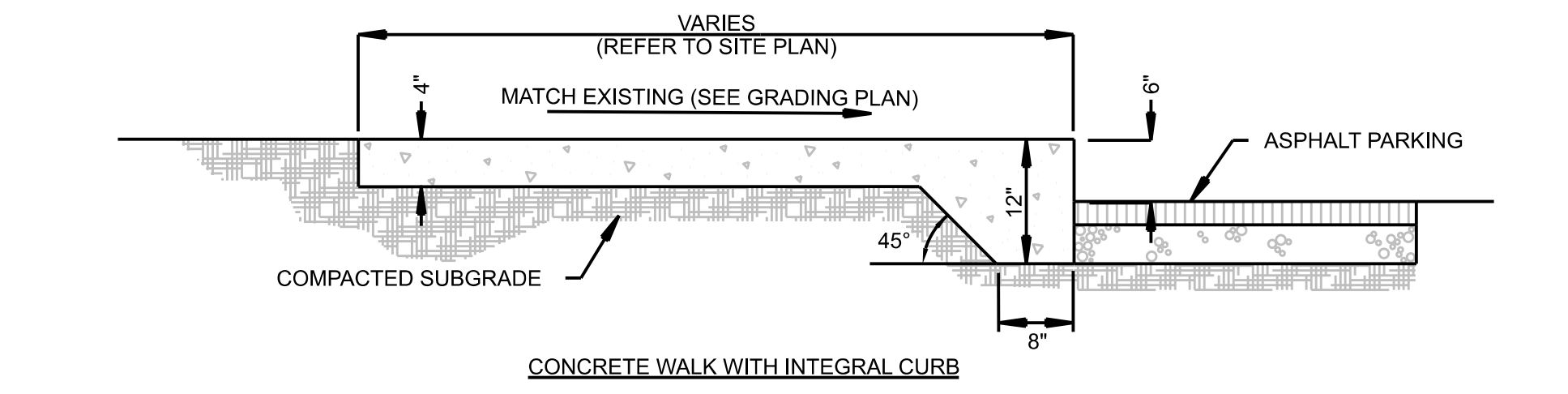
6 ACCESSIBLE PARKING SIGNAGE STANDARDS
C3.2 NTS

RAMP TYPES 1 & 2



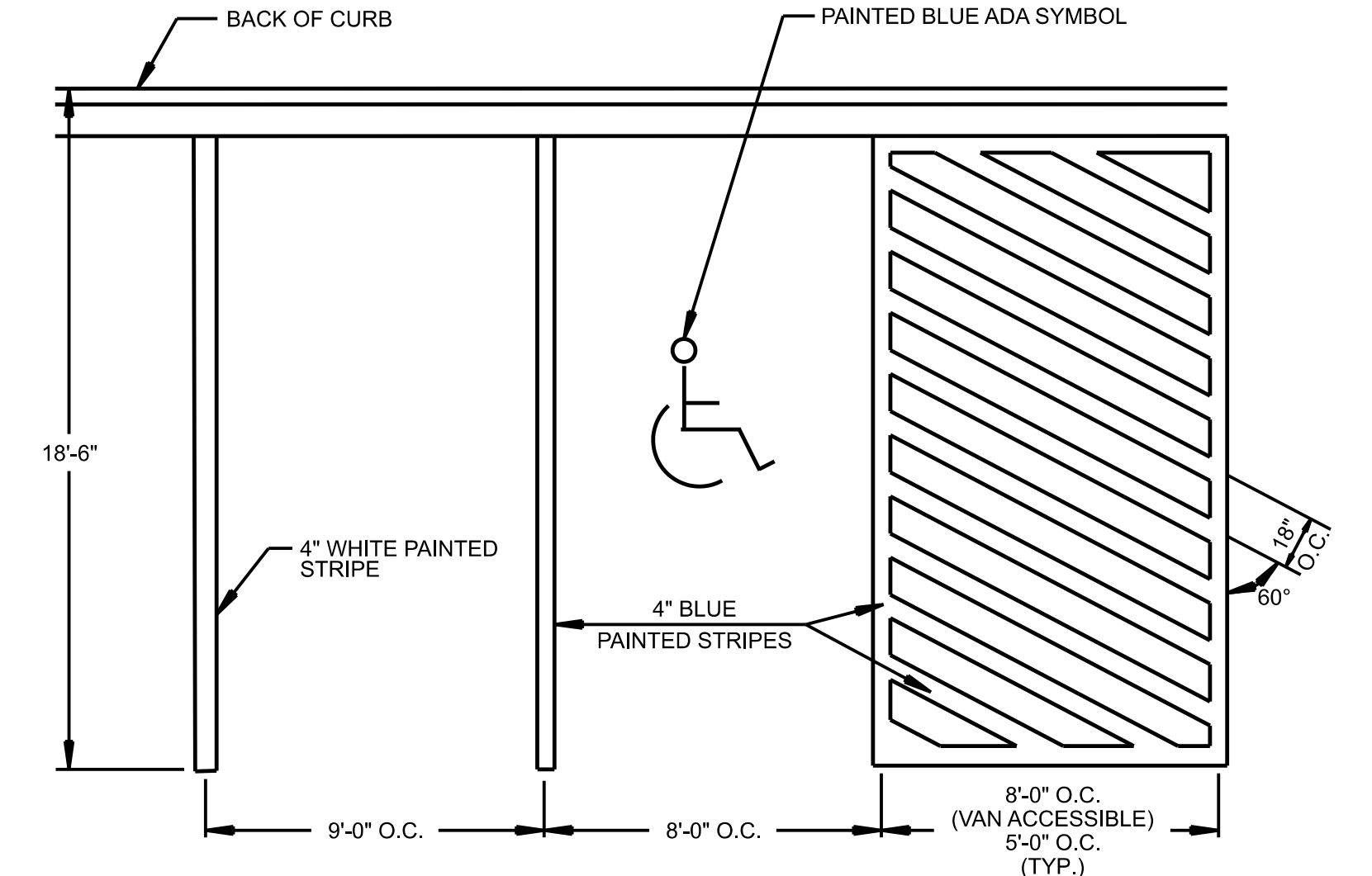
RAMP TYPE NO.	A	B	C
1	7'	6' L 7' R	5'
2	5'	6'	5'

5 ACCESSIBLE RAMPS
C3.2 NTS



- GENERAL NOTES:
- A GROOVE JOINT 1" DEEP WITH A 1/8" RADIUS SHALL BE REQUIRED IN THE CONCRETE SIDEWALK AT 5' INTERVALS, ONE 1/2" EXPANSION JOINT IS REQUIRED AT 45' INTERVALS. A 1/2" EXPANSION JOINT IS REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.
 - CONCRETE SHALL BE 3000 P.S.I. IN 28 DAYS.

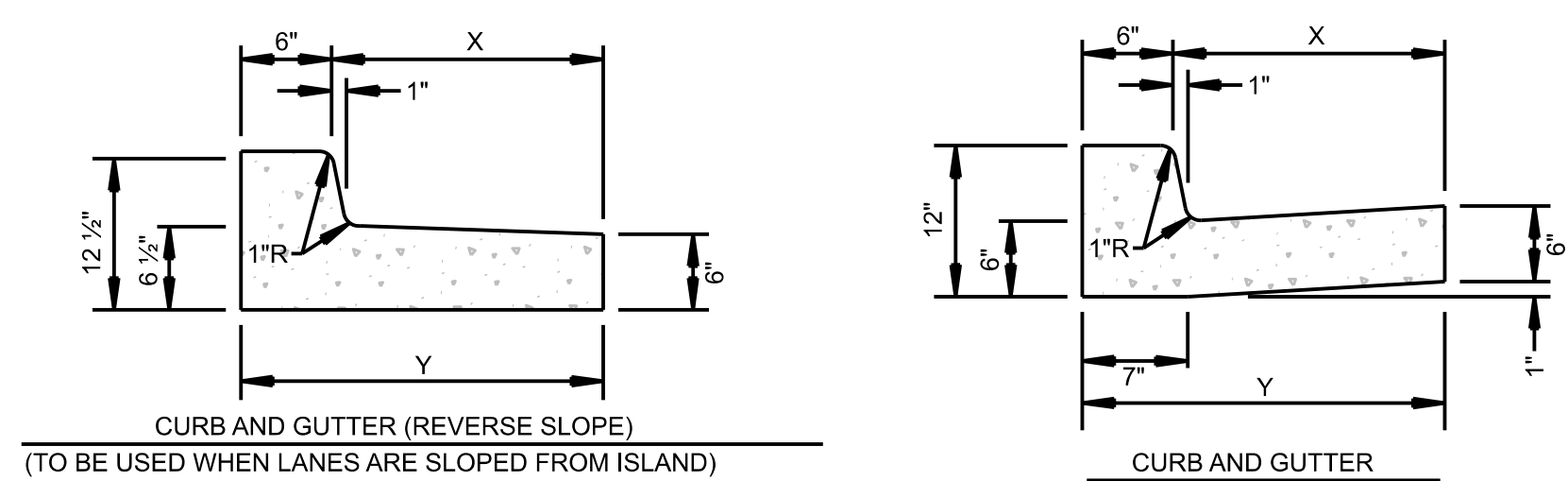
4 CONCRETE WALK
C3.2 NTS



3 PARKING STRIPING DETAIL
C3.2 NTS

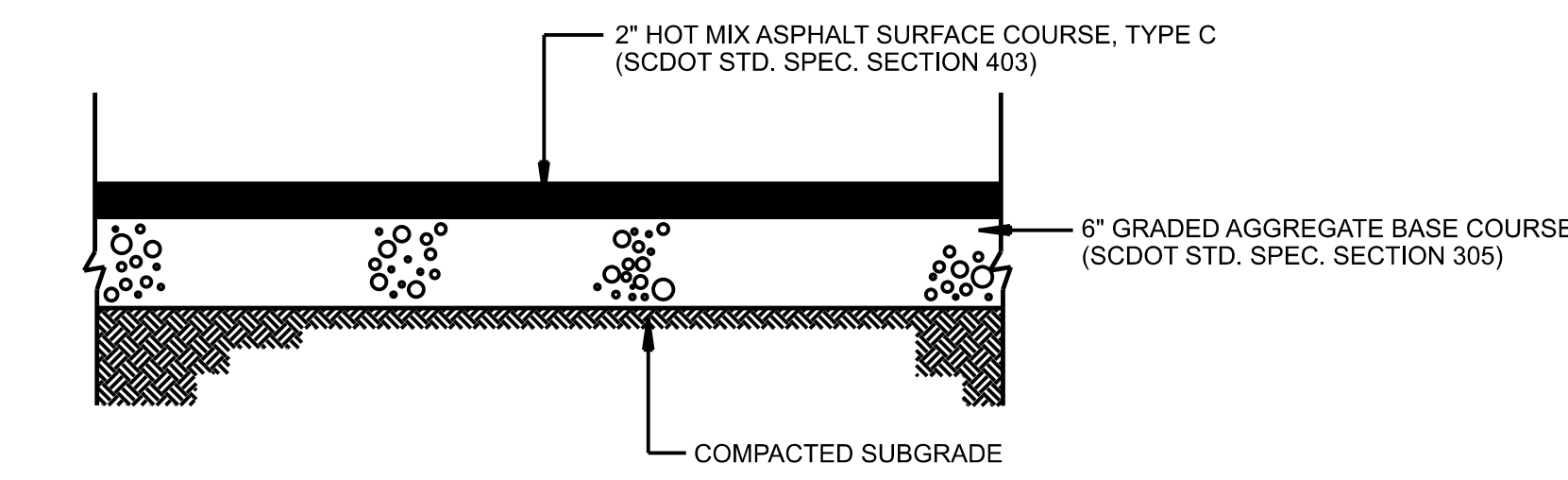


SIZE	X	Y
1'-6"	1'-0"	1'-6"
2'-0"	1'-6"	2'-0"
2'-6"	2'-0"	2'-6"



- GENERAL NOTES:
- CONTRACTION JOINTS SHALL BE SPACED AT 10 FOOT INTERVALS, EXCEPT THAT A 15 FOOT SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10 FOOT INTERVALS. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
 - CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FOR BY OTHER APPROVED METHODS, WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1-1/2" SHALL BE OBTAINED.
 - ALL CONTRACTION JOINTS SHALL BE FILLED WITH JOINT SEALER.
 - EXPANSION JOINTS SHALL BE AT 90 FOOT INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS.
 - JOINTS SHALL MATCH LOCATIONS WITH JOINT IN ABUTTING SIDEWALK.
 - CONCRETE SHALL BE 3000 P.S.I.

2 CURB AND GUTTER
C3.2 NTS



A AUTO PARKING PAVEMENT SECTION

1 PAVEMENT SECTIONS
C3.2 NTS

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FORT MILL SCHOOL DISTRICT
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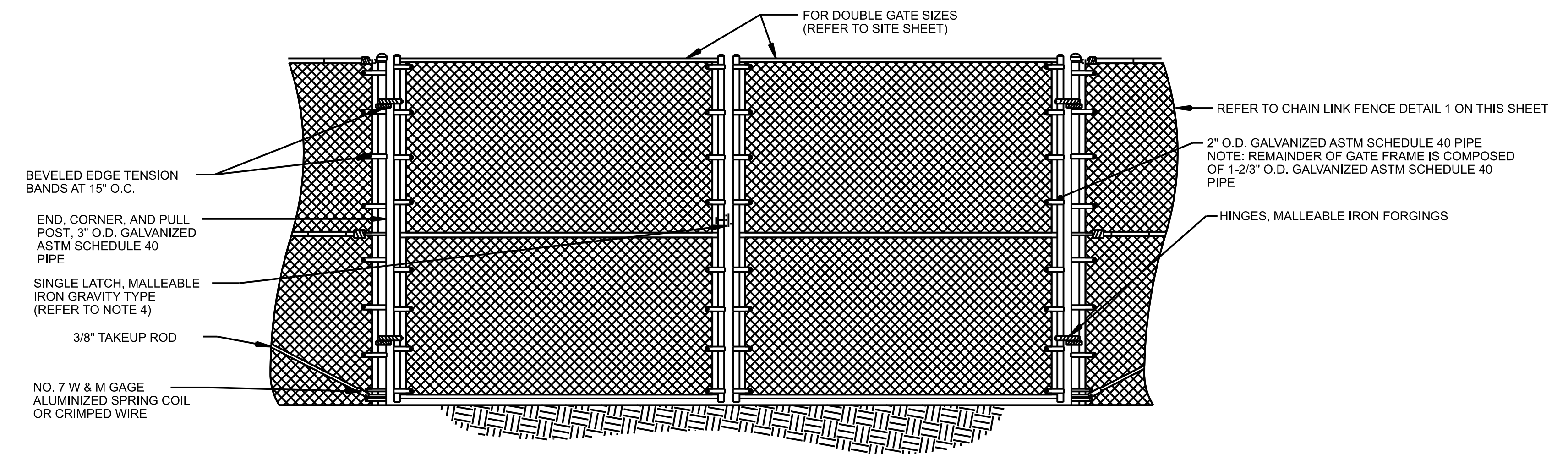
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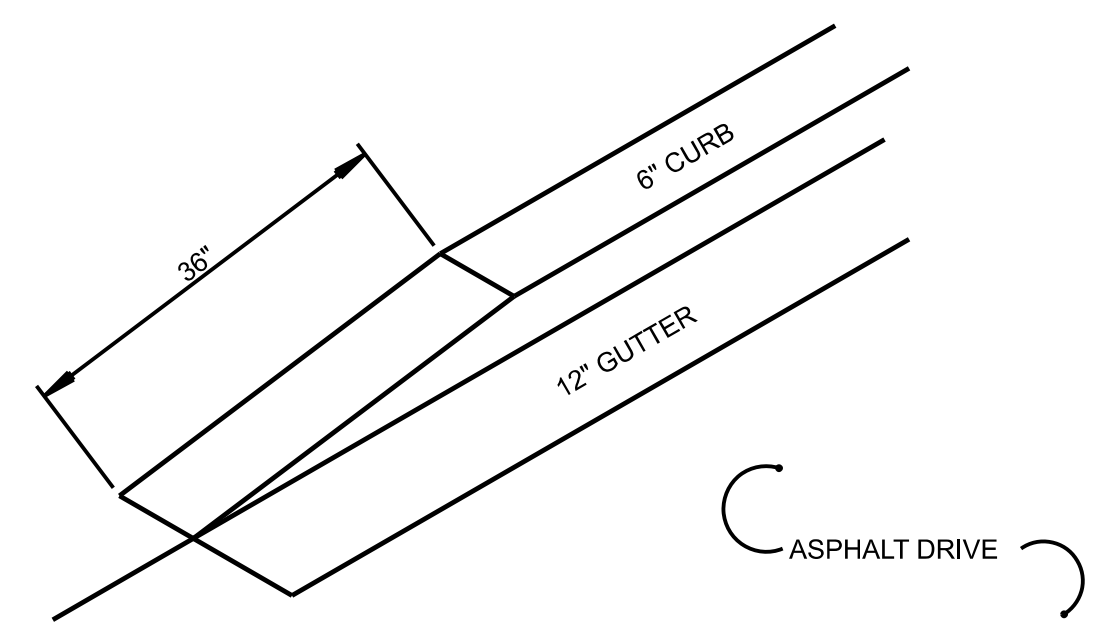
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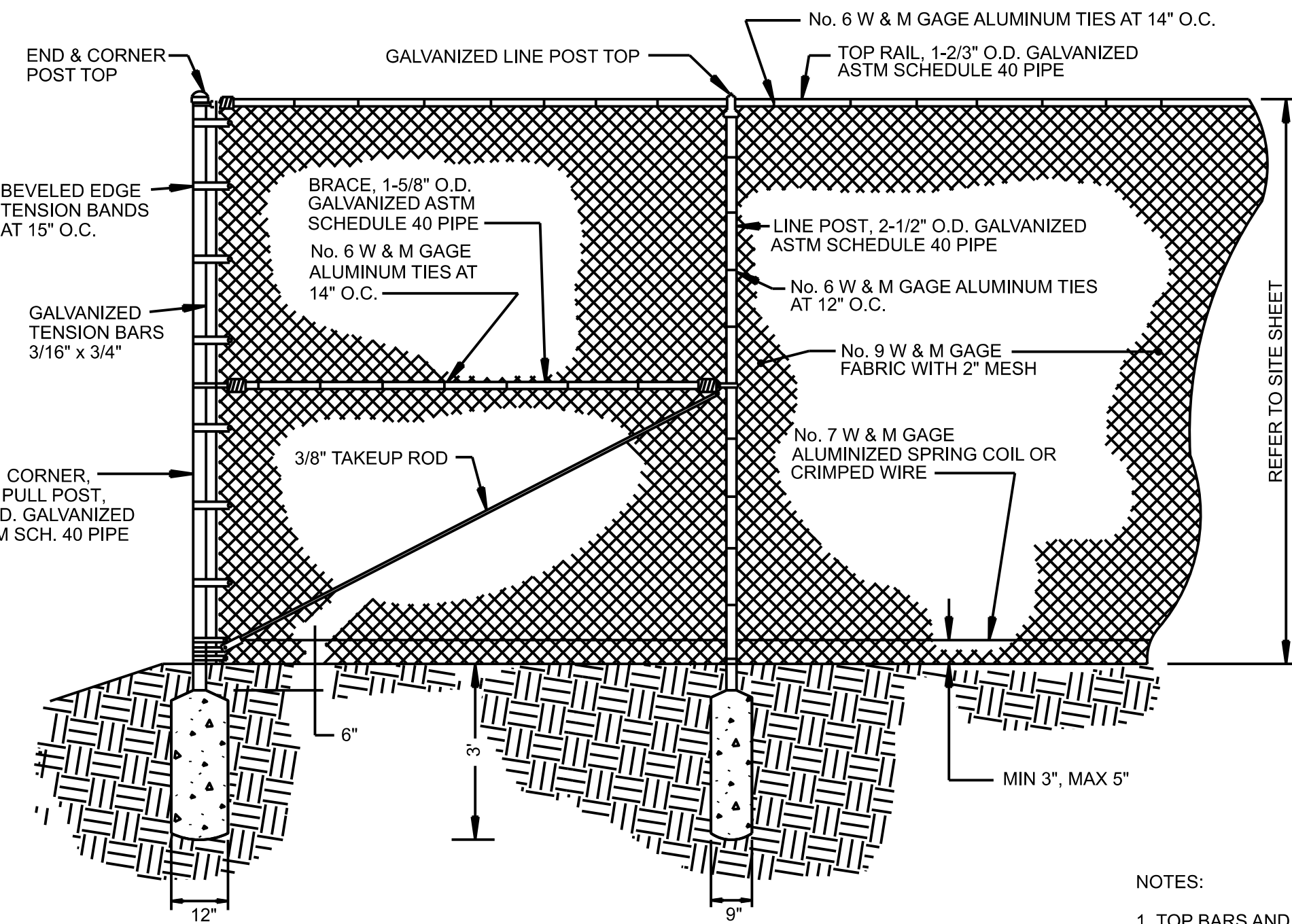


2
C3.3 NTS LOCKABLE SWING GATES

- NOTES:
1. TOP BARS AND HORIZONTAL BRACES SHALL BE 1-2/3" O.D. GALVANIZED ASTM SCHEDULE 40 PIPE.
 2. ALL FABRIC SHALL BE NO. 9 W & M GAGE WITH 2" MESH.
 3. ALL GATE FRAMES SHALL HAVE WELDED JOINTS.
 4. LATCH SHALL ACCEPT PADLOCK.
 5. ALL FENCING, POSTS, RAILS, AND HARDWARE ARE TO BE BLACK VINYL COATED.
 6. POST FOOTINGS SHALL BE 3,000 PSI CONCRETE. TOP OF FOOTING TO BE 6" BELOW FINISHED GRADE. SLOPE TOP OF CONCRETE FOR WATER RUNOFF.



3
C3.3 NTS CURB & GUTTER END TAPER

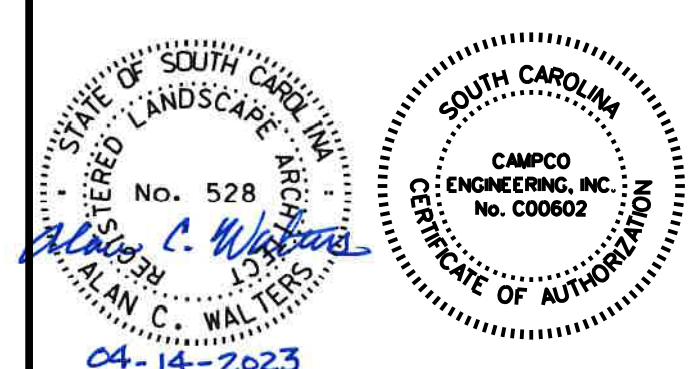


1
C3.3 NTS CHAIN LINK FENCE

- NOTES:
1. TOP BARS AND HORIZONTAL BRACES SHALL BE 1-5/8" O.D. GALVANIZED ASTM SCHEDULE 40 PIPE.
 2. ALL FABRIC SHALL BE NO. 9 W & M GAGE WITH 2" MESH. BOTTOM OF FABRIC 1" ABOVE FINISHED GRADE.
 3. ALL FENCING, POSTS, RAILS, AND HARDWARE ARE TO BE BLACK VINYL COATED.
 4. POST FOOTINGS SHALL BE 3,000 PSI CONCRETE. TOP OF FOOTING TO BE 6" BELOW FINISHED GRADE. SLOPE TOP OF CONCRETE FOR WATER RUNOFF.

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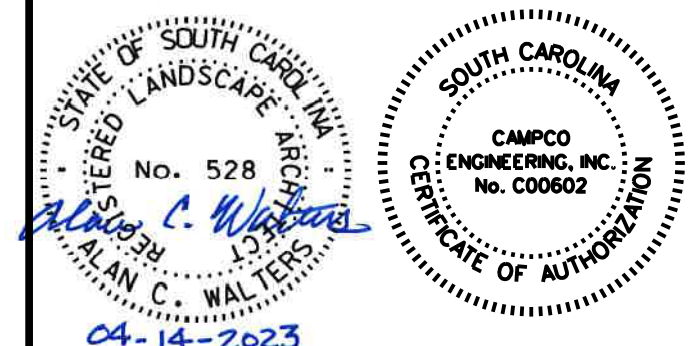
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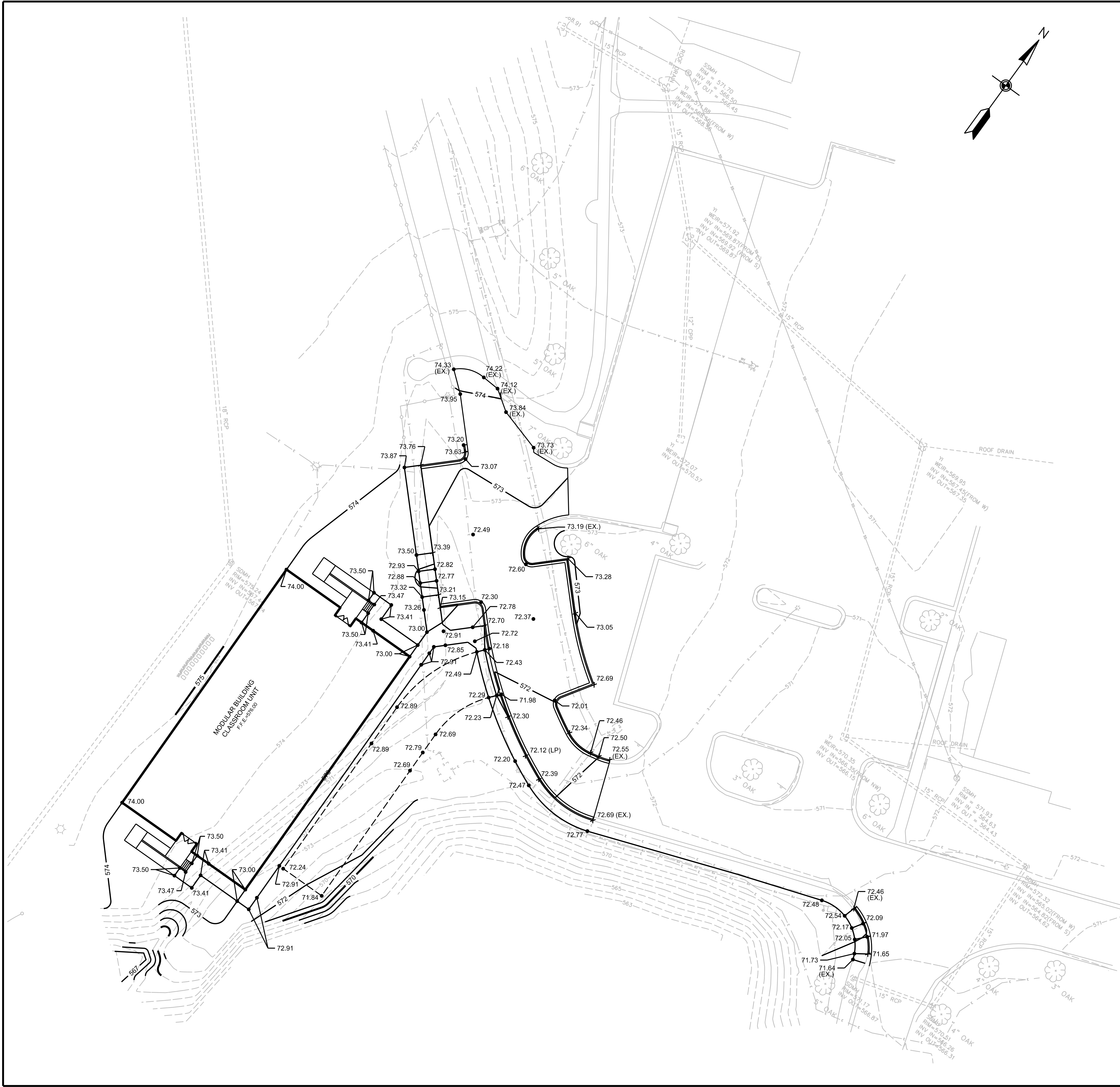
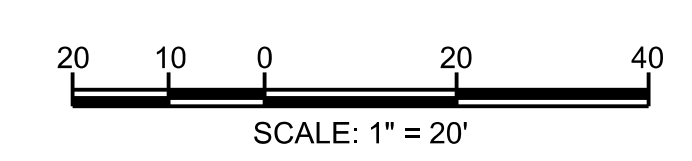
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GRADING PLAN




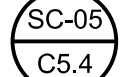


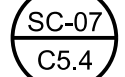


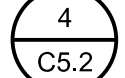

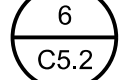


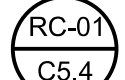
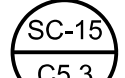
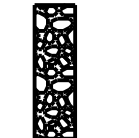

- GRADING NOTES:**
1. CONTOURS ARE TO FINISH GRADE.
 2. GRADE LANDSCAPE AREAS OUTSIDE PAVEMENT AND GRAVEL TO ELEVATION OF 4" BELOW FINISHED GRADE MINIMUM, SUCH THAT TOPSOIL MAY BE SPREAD OVER THESE AREAS TO FINISHED GRADE.
 3. GRADE AND FINISH AREAS SUCH THAT POSITIVE DRAINAGE OCCURS AT EACH DRAINAGE INLET AS DESIGNED.
 4. ALL SPOT ELEVATIONS AROUND CURB AND GUTTER ARE BACK OF CURB (B.O.C) AND ARE IDENTIFIED AS "X".
 5. FINISHED GRADE SPOT ELEVATIONS ARE IDENTIFIED AS ●.
 6. ADD 500 TO ALL SPOT ELEVATIONS UNLESS OTHERWISE NOTED.

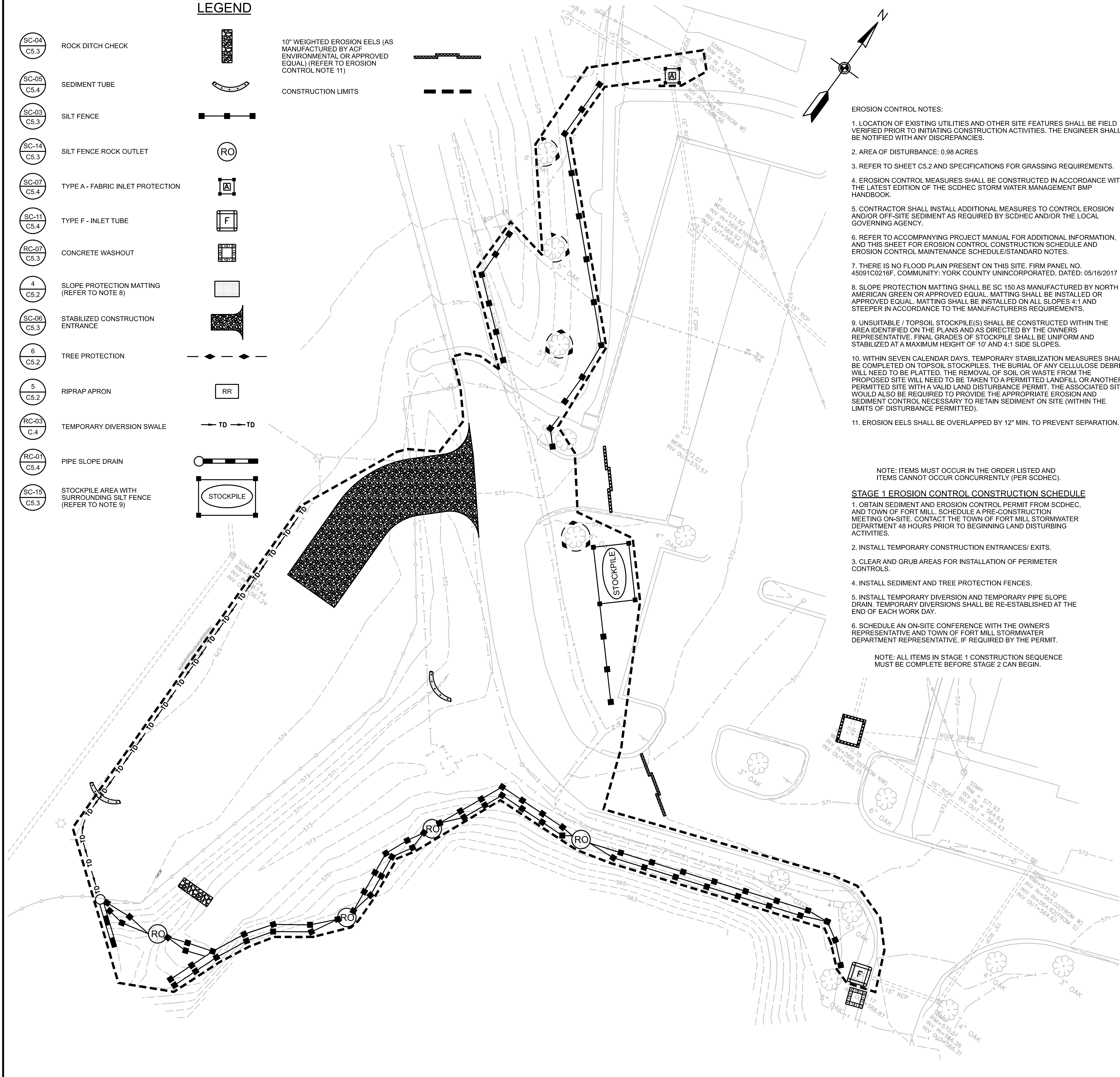


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C4.0

LEGEND

-  SC-04
C5.3 ROCK DITCH CHECK
-  SC-05
C5.4 SEDIMENT TUBE
-  SC-03
C5.3 SILT FENCE
-  SC-14
C5.3 SILT FENCE ROCK OUTLET
-  SC-07
C5.4 TYPE A - FABRIC INLET PROTECTION
-  SC-11
C5.4 TYPE F - INLET TUBE
-  RC-07
C5.3 CONCRETE WASHOUT
-  4
C5.2 SLOPE PROTECTION MATTING (REFER TO NOTE 8)
-  SC-06
C5.3 STABILIZED CONSTRUCTION ENTRANCE
-  6
C5.2 TREE PROTECTION
-  5
C5.2 RIPRAP APRON
-  RC-03
C.4 TEMPORARY DIVERSION SWALE
-  RC-01
C5.4 PIPE SLOPE DRAIN
-  SC-15
C5.3 STOCKPILE AREA WITH SURROUNDING SILT FENCE (REFER TO NOTE 9)
-  10" WEIGHTED EROSION EELS (AS MANUFACTURED BY ACF ENVIRONMENTAL OR APPROVED EQUAL) (REFER TO EROSION CONTROL NOTE 11)
-  CONSTRUCTION LIMITS



- EROSION CONTROL NOTES:**
1. LOCATION OF EXISTING UTILITIES AND OTHER SITE FEATURES SHALL BE FIELD VERIFIED PRIOR TO INITIATING CONSTRUCTION ACTIVITIES. THE ENGINEER SHALL BE NOTIFIED WITH ANY DISCREPANCIES.
 2. AREA OF DISTURBANCE: 0.98 ACRES
 3. REFER TO SHEET C5.2 AND SPECIFICATIONS FOR GRASSING REQUIREMENTS.
 4. EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE SCDHEC STORM WATER MANAGEMENT BMP HANDBOOK.
 5. CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES TO CONTROL EROSION AND/OR OFF-SITE SEDIMENT AS REQUIRED BY SCDHEC AND/OR THE LOCAL GOVERNING AGENCY.
 6. REFER TO ACCOMPANYING PROJECT MANUAL FOR ADDITIONAL INFORMATION, AND THIS SHEET FOR EROSION CONTROL CONSTRUCTION SCHEDULE AND EROSION CONTROL MAINTENANCE SCHEDULE/STANDARD NOTES.
 7. THERE IS NO FLOOD PLAIN PRESENT ON THIS SITE. FIRN PANEL NO. 45091C0216F, COMMUNITY: YORK COUNTY UNINCORPORATED, DATED: 05/16/2017
 8. SLOPE PROTECTION MATTING SHALL BE SC 150 AS MANUFACTURED BY NORTH AMERICAN GREEN OR APPROVED EQUAL. MATTING SHALL BE INSTALLED ON ALL SLOPES 4:1 AND STEEPER IN ACCORDANCE TO THE MANUFACTURERS REQUIREMENTS.
 9. UNSUITABLE / TOPSOIL STOCKPILE(S) SHALL BE CONSTRUCTED WITHIN THE AREA IDENTIFIED ON THE PLANS AND AS DIRECTED BY THE OWNERS REPRESENTATIVE. FINAL GRADES OF STOCKPILE SHALL BE UNIFORM AND STABILIZED AT A MAXIMUM HEIGHT OF 10' AND 4:1 SIDE SLOPES.
 10. WITHIN SEVEN CALENDAR DAYS, TEMPORARY STABILIZATION MEASURES SHALL BE COMPLETED ON TOPSOIL STOCKPILES. THE BURIAL OF ANY CELLULOSE DEBRIS WILL NEED TO BE PLATTED. THE REMOVAL OF SOIL OR WASTE FROM THE PROPOSED SITE WILL NEED TO BE TAKEN TO A PERMITTED LANDFILL OR ANOTHER PERMITTED SITE WITH A VALID LAND DISTURBANCE PERMIT. THE ASSOCIATED SITE WOULD ALSO BE REQUIRED TO PROVIDE THE APPROPRIATE EROSION AND SEDIMENT CONTROL NECESSARY TO RETAIN SEDIMENT ON SITE (WITHIN THE LIMITS OF DISTURBANCE PERMITTED).
 11. EROSION EELS SHALL BE OVERLAPPED BY 12" MIN. TO PREVENT SEPARATION.

NOTE: ITEMS MUST OCCUR IN THE ORDER LISTED AND ITEMS CANNOT OCCUR CONCURRENTLY (PER SCDHEC).

STAGE 1 EROSION CONTROL CONSTRUCTION SCHEDULE

1. OBTAIN SEDIMENT AND EROSION CONTROL PERMIT FROM SCDHEC, AND TOWN OF FORT MILL. SCHEDULE A PRE-CONSTRUCTION MEETING ON-SITE. CONTACT THE TOWN OF FORT MILL STORMWATER DEPARTMENT 48 HOURS PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES.
2. INSTALL TEMPORARY CONSTRUCTION ENTRANCES/ EXITS.
3. CLEAR AND GRUB AREAS FOR INSTALLATION OF PERIMETER CONTROLS.
4. INSTALL SEDIMENT AND TREE PROTECTION FENCES.
5. INSTALL TEMPORARY DIVERSION AND TEMPORARY PIPE SLOPE DRAIN. TEMPORARY DIVERSIONS SHALL BE RE-ESTABLISHED AT THE END OF EACH WORK DAY.
6. SCHEDULE AN ON-SITE CONFERENCE WITH THE OWNER'S REPRESENTATIVE AND TOWN OF FORT MILL STORMWATER DEPARTMENT REPRESENTATIVE, IF REQUIRED BY THE PERMIT.

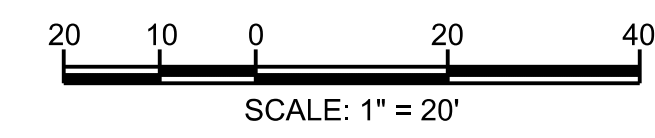
NOTE: ALL ITEMS IN STAGE 1 CONSTRUCTION SEQUENCE MUST BE COMPLETE BEFORE STAGE 2 CAN BEGIN.

YORK COUNTY STANDARD EROSION CONTROL NOTES:

1. THIS SITE IS CONSIDERED TO BE A LARGER COMMON PLAN (LCP) OR IS PART OF A LARGER COMMON PLAN OF DEVELOPMENT, AS DEFINED BY YORK COUNTY ORDINANCE AND SCDHEC REGULATIONS. STORMWATER DETENTION AND WATER QUALITY REQUIREMENTS SHALL BE REQUIRED FOR LAND DISTURBANCE DURING THE DEVELOPMENT OF ANY AND ALL LOTS WITHIN THIS LARGER COMMON PLAN.
 - a. STORMWATER QUALITY OR DETENTION MEASURES SHALL BE IMPLEMENTED WHERE TWO (2) OR MORE ACRES ARE DISTURBED OR ARE PLANNED TO BE DISTURBED.
 - b. STORMWATER WATER QUALITY MEASURES SHALL BE IMPLEMENTED WHERE FIVE (5) OR MORE ACRES IN THIS LCP ARE DISTURBED OR ARE PLANNED TO BE DISTURBED.
 - c. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES AND BEST MANAGEMENT PRACTICES (BMPs) SHALL REQUIRE A COVENANT FOR PERMANENT STORMWATER SYSTEM MAINTENANCE AND RESPONSIBILITY FORM TO BE RECORDED WITH THE YORK COUNTY REGISTRAR OF DEEDS. THIS AGREEMENT SHALL CONSTITUTE A COVENANT RUNNING WITH THE LAND, AND SHALL BE BINDING UPON THE RESPONSIBLE PARTIES, HEIRS, ADMINISTRATORS, EXECUTORS, ASSIGNS AND ANY OTHER SUCCESSORS IN INTEREST. THE PROVISIONS OF THIS AGREEMENT MUST ALSO IDENTIFY A SOURCE OF FUNDING TO SUPPORT FOR FUTURE REQUIRED MAINTENANCE AND UPKEEP ACTIVITIES, AND AN ENTITY RESPONSIBLE FOR GENERAL UPKEEP, MAINTENANCE AND REPAIR.
 - d. NO PERMANENT BMPs CAN BE CONSTRUCTED ON A NUMBERED LOT. PROPERTY WHICH CONTAINS STORMWATER MANAGEMENT AND/OR WATER QUALITY FEATURES (PERMANENT BMPs) SHALL NOT BE NUMBERED AS LOTS AND SHALL BE SET ASIDE AS STORM DRAINAGE EASEMENTS WITHIN OPEN SPACE OR GREEN SPACE.
 - e. ALL PERMANENT BMPs TO BE IMPLEMENTED TO MEET THESE REQUIREMENTS WILL NEED TO BE APPROVED PRIOR TO ANY DISTURBANCE BEING PERMITTED.
 - f. ALL ASSOCIATED PERMITS, PLANS, FEES, ETC. MUST BE EXECUTED PRIOR TO THE DISTURBANCE OF ANY LAND ASSOCIATED WITH THIS PLAN AND/OR BUILDING PERMIT.
2. THE DESIGN OF ALL EROSION CONTROL AND STORMWATER MANAGEMENT FEATURES FOR WATER QUALITY AND WATER QUANTITY AND OTHER BMPs, STORM DRAIN PIPING AND THEIR RECEIVING WATERS, IN ADDITION TO ALL ROAD INFRASTRUCTURE, SANITARY SEWER AND WATER UTILITIES, AS PRESENTED HEREIN, HAS BEEN COMPLETED FROM FIELD SURVEY INFORMATION PREPARED BY A LICENSED SOUTH CAROLINA LAND SURVEYOR.
3. FOLLOWING THE PRE- CONSTRUCTION CONFERENCE, CONTACT YORK COUNTY ENVIRONMENTAL COMPLIANCE AT (803) 909-7250 NOT LESS THAN 48 HOURS BEFORE COMMENCEMENT OF THE LAND-DISTURBING ACTIVITY. THE PERMITTEE SHALL ALSO CONTACT YORK COUNTY AFTER THE REMOVAL OF THE TEMPORARY SEDIMENT CONTROL MEASURES AND THE CONVERSION OF ANY BMPs REQUIRED TO BE CONVERTED INTO PERMANENT CONTROL MEASURES, ONCE THE SITE HAS BEEN FINALLY STABILIZED.
4. NO STAGE OF WORK, RELATED TO THE CONSTRUCTION OF STORMWATER MANAGEMENT FACILITIES, SHALL PROCEED TO THE NEXT SUBSEQUENT STAGE OF WORK, ACCORDING TO THE SEQUENCE SPECIFIED IN THE APPROVED C-SWPP STAGED CONSTRUCTION AND INSPECTION CONTROL SCHEDULE UNTIL IT IS INSPECTED AND APPROVED BY YORK COUNTY, OR AN AMENDED C-SWPPP AND ENGINEERED PLAN IS APPROVED BY YORK COUNTY PRIOR TO COMMENCING THE WORK.
5. THE PERMITTEE ENGAGED IN OR CONDUCTING THE LAND-DISTURBING ACTIVITY SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES AND FACILITIES DURING THE DEVELOPMENT OF A SITE, AS REQUIRED BY THE APPROVED PLAN OR ANY PROVISION OF THE YORK COUNTY STORMWATER ORDINANCE. OPERATIONS AND MAINTENANCE CONDITIONS SHALL BE INCLUDED IN THE PLAN OUTLINING HOW THE PERMITTEE AND OWNER INTENDS TO PROVIDE FOR OPERATIONS AND MAINTENANCE DURING AND POST CONSTRUCTION.
6. STOCKPILES SHALL BE TEMPORARY AND SHALL BE LEVELED TO CONFORM TO SURROUNDING ELEVATION AS A PRECONDITION FOR ANY OF THE FOLLOWING, WHICHEVER OCCURS FIRST:
 - a. REQUEST FOR A NOTICE OF TERMINATION, OR
 - b. REQUEST FOR YORK COUNTY ACCEPTANCE OF A ROAD OR STREET IN ACCORDANCE WITH THE ROAD/STREET ACCEPTANCE REQUIREMENTS OF CHAPTER 154 - SUBDIVISION CODE OF THE YORK COUNTY CODE OF ORDINANCES.
7. THE BURIAL OF ANY CELLULOSE DEBRIS IS REQUIRED TO BE PLATTED. THE REMOVAL OF SOIL OR WASTE FROM THE PROPOSED SITE IS REQUIRED TO BE TAKEN TO A PERMITTED LANDFILL OR ANOTHER PERMITTED SITE WITH A VALID LAND DISTURBANCE PERMIT AS ALLOWED BY STATE AND FEDERAL REGULATIONS. THE ASSOCIATED SITE WOULD ALSO BE REQUIRED TO PROVIDE THE APPROPRIATE EROSION AND SEDIMENT CONTROL NECESSARY TO RETAIN SEDIMENT ON SITE (WITHIN THE LIMITS OF DISTURBANCE PERMITTED).
8. AREAS AT FINAL GRADE SHALL RECEIVE PERMANENT STABILIZATION MEASURES WITHIN 14 CALENDAR DAYS OF REACHING FINAL GRADE.
9. THE RESPONSIBILITY FOR MAINTAINING ALL PERMANENT EROSION AND SEDIMENT CONTROL MEASURES AND FACILITIES, INCLUDING EASEMENTS, AFTER SITE LAND - DISTURBING ACTIVITY IS COMPLETED SHALL LIE WITH THE LANDOWNER OR PERSON IN POSSESSION OR CONTROL, INCLUDING THE DEVELOPER, THE DEVELOPER'S DESIGNEE, OR ANY HOMEOWNER'S ASSOCIATION, PROPERTY OWNER'S ASSOCIATION OR OTHER COMMON OWNER ENTITY ESTABLISHED FOR THE GOVERNANCE/ADMINISTRATION OF A SUBDIVISION OR COMMON PLAN OF DEVELOPMENT, EXCEPT FACILITIES AND MEASURES INSTALLED WITHIN ROAD OR STREET RIGHTS-OF-WAY OR EASEMENTS ACCEPTED FOR MAINTENANCE BY YORK COUNTY.
10. FOR DEVELOPMENTS WHICH ESTABLISH A HOMEOWNER'S ASSOCIATION, PROPERTY OWNER'S ASSOCIATION OR OTHER COMMON OWNER ENTITY, PROVISIONS FOR LONG TERM MAINTENANCE OF SITE STORMWATER FACILITIES AND/OR BMPs, AS OUTLINED IN THE APPROVED PLAN, SHALL BE DEFINED IN A SIGNED AND RECORDED COVENANT FOR PERMANENT STORMWATER SYSTEM MAINTENANCE AND RESPONSIBILITY. THE PROVISIONS OF THIS COVENANT SHALL ALSO IDENTIFY A SOURCE OF FUNDING TO SUPPORT FUTURE REQUIRED MAINTENANCE AND UPKEEP ACTIVITIES, AND THE ENTITY RESPONSIBLE FOR GENERAL UPKEEP, MAINTENANCE AND REPAIR.
11. APPROVED PLANS REMAIN VALID FOR FIVE YEARS FROM THE DATE OF AN APPROVAL.

MAINTENANCE NOTES

1. INSPECT SEDIMENT FENCE EVERY 7 CALENDAR DAYS AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCHES OR MORE OF PRECIPITATION. CHECK FOR SEDIMENT BUILDUP AND FENCE INTEGRITY. CHECK WHERE RUNOFF HAS ERODED A CHANNEL BENEATH THE FENCE, OR WHERE THE FENCE HAS SAGGED OR COLLAPSED BY FENCE OVERTOPPING.
2. IF THE SEDIMENT FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE SECTION OF FENCE IMMEDIATELY.
3. REMOVE SEDIMENT ACCUMULATED ALONG THE FENCE WHEN IT REACHES 1/3 THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED.
4. REMOVE TRAPPED SEDIMENT FROM THE SITE OR STABILIZE IT ON SITE.
5. REMOVE SILT FENCE WITHIN 30 DAYS AFTER FINAL STABILIZATION IS ACHIEVED.
6. PERMANENTLY STABILIZE DISTURBED AREAS RESULTING FROM FENCE REMOVAL.



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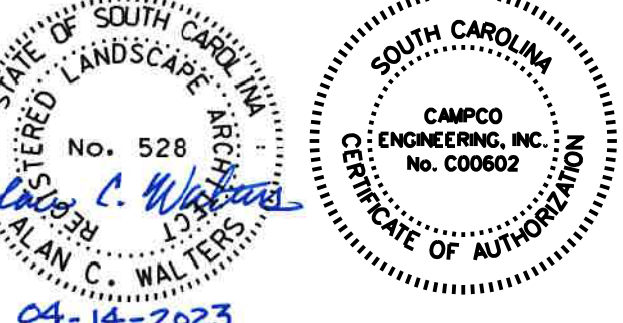
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FORT MILL SCHOOL DISTRICT
ALTERNATIVE SCHOOL
MODULAR CLASSROOM SITE
 FORT MILL, SOUTH CAROLINA

REVISIONS		
NO.	DATE	DESCRIPTION


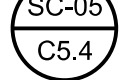
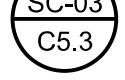
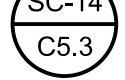
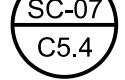
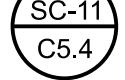

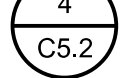
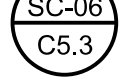
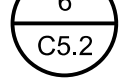
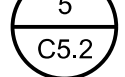


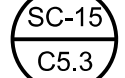
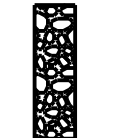

STAGE 1 EROSION CONTROL PLAN

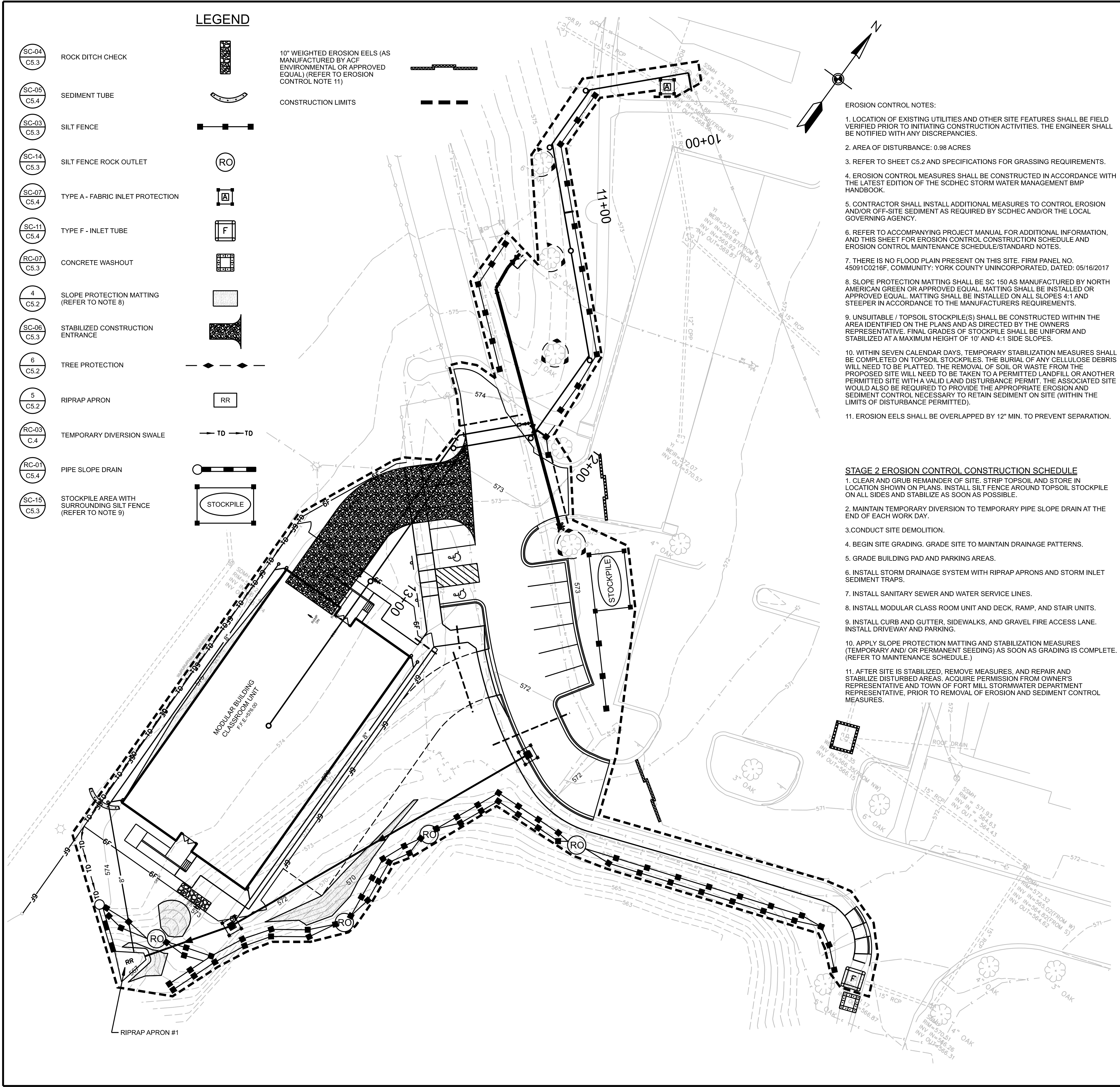


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C5.0

LEGEND

-  SC-04
C5.3 ROCK DITCH CHECK
-  SC-05
C5.4 SEDIMENT TUBE
-  SC-03
C5.3 SILT FENCE
-  SC-14
C5.3 SILT FENCE ROCK OUTLET
-  SC-07
C5.4 TYPE A - FABRIC INLET PROTECTION
-  SC-11
C5.4 TYPE F - INLET TUBE
-  RC-07
C5.3 CONCRETE WASHOUT
-  4
C5.2 SLOPE PROTECTION MATTING (REFER TO NOTE 8)
-  SC-06
C5.3 STABILIZED CONSTRUCTION ENTRANCE
-  6
C5.2 TREE PROTECTION
-  5
C5.2 RIPRAP APRON
-  RC-03
C.4 TEMPORARY DIVERSION SWALE
-  RC-01
C5.4 PIPE SLOPE DRAIN
-  SC-15
C5.3 STOCKPILE AREA WITH SURROUNDING SILT FENCE (REFER TO NOTE 9)
-  10" WEIGHTED EROSION EELS (AS MANUFACTURED BY ACF ENVIRONMENTAL OR APPROVED EQUAL) (REFER TO EROSION CONTROL NOTE 11)
-  CONSTRUCTION LIMITS

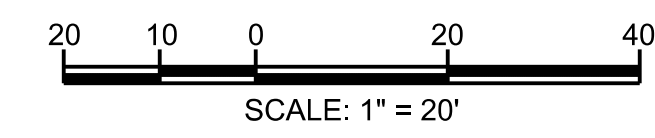


- EROSION CONTROL NOTES:**
1. LOCATION OF EXISTING UTILITIES AND OTHER SITE FEATURES SHALL BE FIELD VERIFIED PRIOR TO INITIATING CONSTRUCTION ACTIVITIES. THE ENGINEER SHALL BE NOTIFIED WITH ANY DISCREPANCIES.
 2. AREA OF DISTURBANCE: 0.98 ACRES
 3. REFER TO SHEET C5.2 AND SPECIFICATIONS FOR GRASSING REQUIREMENTS.
 4. EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE SCDHEC STORM WATER MANAGEMENT BMP HANDBOOK.
 5. CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES TO CONTROL EROSION AND/OR OFF-SITE SEDIMENT AS REQUIRED BY SCDHEC AND/OR THE LOCAL GOVERNING AGENCY.
 6. REFER TO ACCOMPANYING PROJECT MANUAL FOR ADDITIONAL INFORMATION, AND THIS SHEET FOR EROSION CONTROL CONSTRUCTION SCHEDULE AND EROSION CONTROL MAINTENANCE SCHEDULE/STANDARD NOTES.
 7. THERE IS NO FLOOD PLAIN PRESENT ON THIS SITE. FIRM PANEL NO. 45091C0216F, COMMUNITY: YORK COUNTY UNINCORPORATED, DATED: 05/16/2017
 8. SLOPE PROTECTION MATTING SHALL BE SC 150 AS MANUFACTURED BY NORTH AMERICAN GREEN OR APPROVED EQUAL. MATTING SHALL BE INSTALLED OR APPROVED EQUAL MATTING SHALL BE INSTALLED ON ALL SLOPES 4:1 AND STEEPER IN ACCORDANCE TO THE MANUFACTURERS REQUIREMENTS.
 9. UNSUITABLE / TOPSOIL STOCKPILE(S) SHALL BE CONSTRUCTED WITHIN THE AREA IDENTIFIED ON THE PLANS AND AS DIRECTED BY THE OWNERS REPRESENTATIVE. FINAL GRADES OF STOCKPILE SHALL BE UNIFORM AND STABILIZED AT A MAXIMUM HEIGHT OF 10' AND 4:1 SIDE SLOPES.
 10. WITHIN SEVEN CALENDAR DAYS, TEMPORARY STABILIZATION MEASURES SHALL BE COMPLETED ON TOPSOIL STOCKPILES. THE BURIAL OF ANY CELLULOSE DEBRIS WILL NEED TO BE PLATTED. THE REMOVAL OF SOIL OR WASTE FROM THE PROPOSED SITE WILL NEED TO BE TAKEN TO A PERMITTED LANDFILL OR ANOTHER PERMITTED SITE WITH A VALID LAND DISTURBANCE PERMIT. THE ASSOCIATED SITE WOULD ALSO BE REQUIRED TO PROVIDE THE APPROPRIATE EROSION AND SEDIMENT CONTROL NECESSARY TO RETAIN SEDIMENT ON SITE (WITHIN THE LIMITS OF DISTURBANCE PERMITTED).
 11. EROSION EELS SHALL BE OVERLAPPED BY 12" MIN. TO PREVENT SEPARATION.

- STAGE 2 EROSION CONTROL CONSTRUCTION SCHEDULE**
1. CLEAR AND GRUB REMAINDER OF SITE. STRIP TOPSOIL AND STORE IN LOCATION SHOWN ON PLANS. INSTALL SILT FENCE AROUND TOPSOIL STOCKPILE ON ALL SIDES AND STABILIZE AS SOON AS POSSIBLE.
 2. MAINTAIN TEMPORARY DIVERSION TO TEMPORARY PIPE SLOPE DRAIN AT THE END OF EACH WORK DAY.
 3. CONDUCT SITE DEMOLITION.
 4. BEGIN SITE GRADING. GRADE SITE TO MAINTAIN DRAINAGE PATTERNS.
 5. GRADE BUILDING PAD AND PARKING AREAS.
 6. INSTALL STORM DRAINAGE SYSTEM WITH RIPRAP APRONS AND STORM INLET SEDIMENT TRAPS.
 7. INSTALL SANITARY SEWER AND WATER SERVICE LINES.
 8. INSTALL MODULAR CLASS ROOM UNIT AND DECK, RAMP, AND STAIR UNITS.
 9. INSTALL CURB AND GUTTER, SIDEWALKS, AND GRAVEL FIRE ACCESS LANE. INSTALL DRIVEWAY AND PARKING.
 10. APPLY SLOPE PROTECTION MATTING AND STABILIZATION MEASURES (TEMPORARY AND/OR PERMANENT SEEDING) AS SOON AS GRADING IS COMPLETE. (REFER TO MAINTENANCE SCHEDULE.)
 11. AFTER SITE IS STABILIZED, REMOVE MEASURES, AND REPAIR AND STABILIZE DISTURBED AREAS. ACQUIRE PERMISSION FROM OWNERS REPRESENTATIVE AND TOWN OF FORT MILL STORMWATER DEPARTMENT REPRESENTATIVE, PRIOR TO REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES.

- YORK COUNTY STANDARD EROSION CONTROL NOTES:**
1. THIS SITE IS CONSIDERED TO BE A LARGER COMMON PLAN (LCP) OR IS PART OF A LARGER COMMON PLAN OF DEVELOPMENT, AS DEFINED BY YORK COUNTY ORDINANCE AND SCDHEC REGULATIONS. STORMWATER DETENTION AND WATER QUALITY REQUIREMENTS SHALL BE REQUIRED FOR LAND DISTURBANCE DURING THE DEVELOPMENT OF ANY AND ALL LOTS WITHIN THIS LARGER COMMON PLAN.
 - a. STORMWATER QUALITY OR DETENTION MEASURES SHALL BE IMPLEMENTED WHERE TWO (2) OR MORE ACRES ARE DISTURBED OR ARE PLANNED TO BE DISTURBED.
 - b. STORMWATER WATER QUALITY MEASURES SHALL BE IMPLEMENTED WHERE FIVE (5) OR MORE ACRES IN THIS LCP ARE DISTURBED OR ARE PLANNED TO BE DISTURBED.
 - c. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES AND BEST MANAGEMENT PRACTICES (BMPs) SHALL REQUIRE A COVENANT FOR PERMANENT STORMWATER SYSTEM MAINTENANCE AND RESPONSIBILITY FORM TO BE RECORDED WITH THE YORK COUNTY REGISTRAR OF DEEDS. THIS AGREEMENT SHALL CONSTITUTE A COVENANT RUNNING WITH THE LAND, AND SHALL BE BINDING UPON THE RESPONSIBLE PARTIES, HEIRS, ADMINISTRATORS, EXECUTORS, ASSIGNS AND ANY OTHER SUCCESSORS IN INTEREST. THE PROVISIONS OF THIS AGREEMENT MUST ALSO IDENTIFY A SOURCE OF FUNDING TO SUPPORT FOR FUTURE REQUIRED MAINTENANCE AND UPKEEP ACTIVITIES, AND AN ENTITY RESPONSIBLE FOR GENERAL UPKEEP, MAINTENANCE AND REPAIR.
 - d. NO PERMANENT BMPs CAN BE CONSTRUCTED ON A NUMBERED LOT. PROPERTY WHICH CONTAINS STORMWATER MANAGEMENT AND/OR WATER QUALITY FEATURES (PERMANENT BMPs) SHALL NOT BE NUMBERED AS LOTS AND SHALL BE SET ASIDE AS STORM DRAINAGE EASEMENTS WITHIN OPEN SPACE OR GREEN SPACE.
 - e. ALL PERMANENT BMPs TO BE IMPLEMENTED TO MEET THESE REQUIREMENTS WILL NEED TO BE APPROVED PRIOR TO ANY DISTURBANCE BEING PERMITTED.
 - f. ALL ASSOCIATED PERMITS, PLANS, FEES, ETC. MUST BE EXECUTED PRIOR TO THE DISTURBANCE OF ANY LAND ASSOCIATED WITH THIS PLAN AND/OR BUILDING PERMIT.
 2. THE DESIGN OF ALL EROSION CONTROL AND STORMWATER MANAGEMENT FEATURES FOR WATER QUALITY AND WATER QUANTITY AND OTHER BMPs, STORM DRAIN PIPING AND THEIR RECEIVING WATERS, IN ADDITION TO ALL ROAD INFRASTRUCTURE, SANITARY SEWER AND WATER UTILITIES, AS PRESENTED HEREIN, HAS BEEN COMPLETED FROM FIELD SURVEY INFORMATION PREPARED BY A LICENSED SOUTH CAROLINA LAND SURVEYOR.
 3. FOLLOWING THE PRE-CONSTRUCTION CONFERENCE, CONTACT YORK COUNTY ENVIRONMENTAL COMPLIANCE AT (803) 909-7250 NOT LESS THAN 48 HOURS BEFORE COMMENCEMENT OF THE LAND-DISTURBING ACTIVITY. THE PERMITTEE SHALL ALSO CONTACT YORK COUNTY AFTER THE REMOVAL OF THE TEMPORARY SEDIMENT CONTROL MEASURES AND THE CONVERSION OF ANY BMPs REQUIRED TO BE CONVERTED INTO PERMANENT CONTROL MEASURES, ONCE THE SITE HAS BEEN FINALLY STABILIZED.
 4. NO STAGE OF WORK, RELATED TO THE CONSTRUCTION OF STORMWATER MANAGEMENT FACILITIES, SHALL PROCEED TO THE NEXT SUBSEQUENT STAGE OF WORK, ACCORDING TO THE SEQUENCE SPECIFIED IN THE APPROVED C-SWPP STAGED CONSTRUCTION AND INSPECTION CONTROL SCHEDULE UNTIL IT IS INSPECTED AND APPROVED BY YORK COUNTY, OR AN AMENDED C-SWPPP AND ENGINEERED PLAN IS APPROVED BY YORK COUNTY PRIOR TO COMMENCING THE WORK.
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 10. FOR DEVELOPMENTS WHICH ESTABLISH A HOMEOWNER'S ASSOCIATION, PROPERTY OWNER'S ASSOCIATION OR OTHER COMMON OWNER ENTITY, PROVISIONS FOR LONG TERM MAINTENANCE OF SITE STORMWATER FACILITIES AND/OR BMPs, AS OUTLINED IN THE APPROVED PLAN, SHALL BE DEFINED IN A SIGNED AND RECORDED COVENANT FOR PERMANENT STORMWATER SYSTEM MAINTENANCE AND RESPONSIBILITY. THE PROVISIONS OF THIS COVENANT SHALL ALSO IDENTIFY A SOURCE OF FUNDING TO SUPPORT FUTURE REQUIRED MAINTENANCE AND UPKEEP ACTIVITIES, AND THE ENTITY RESPONSIBLE FOR GENERAL UPKEEP, MAINTENANCE AND REPAIR.
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- MAINTENANCE NOTES**
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 2. IF THE SEDIMENT FENCE FABRIC TEARS, BEGINS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE SECTION OF FENCE IMMEDIATELY.
 3. REMOVE SEDIMENT ACCUMULATED ALONG THE FENCE WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED.
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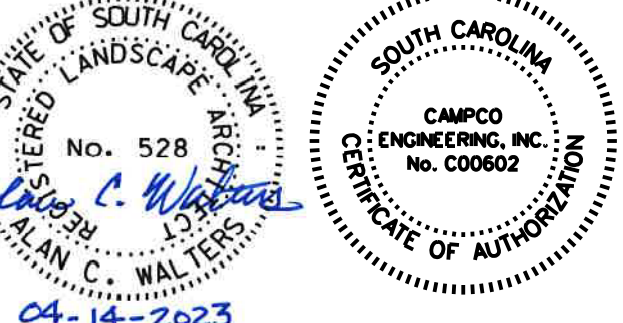
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NO.	DATE	DESCRIPTION

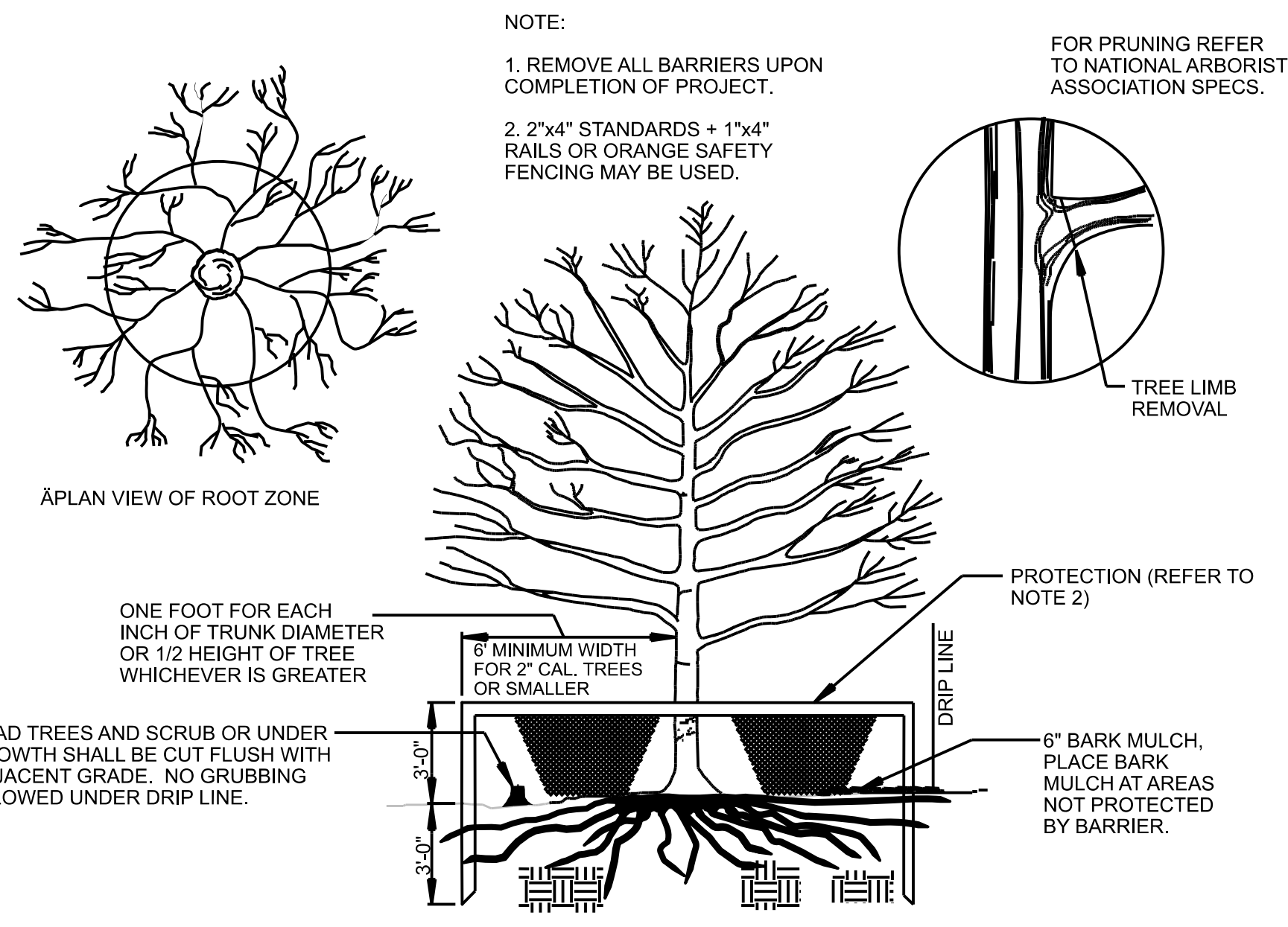
STAGE 2 EROSION CONTROL PLAN



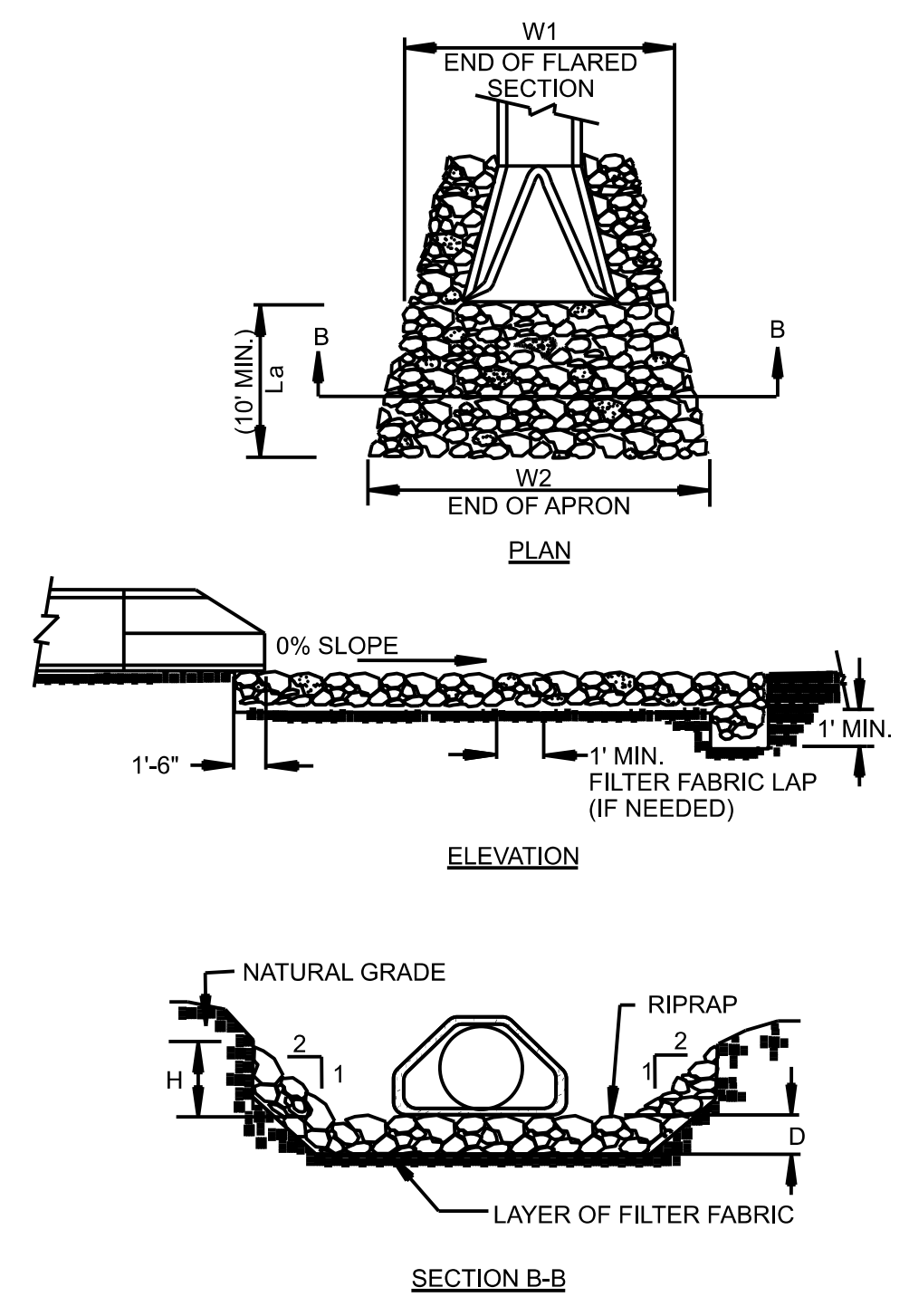
Alan C. Waller
Professional Engineer
No. 528
State of South Carolina
04-14-2023

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6 TREE PROTECTION DETAIL
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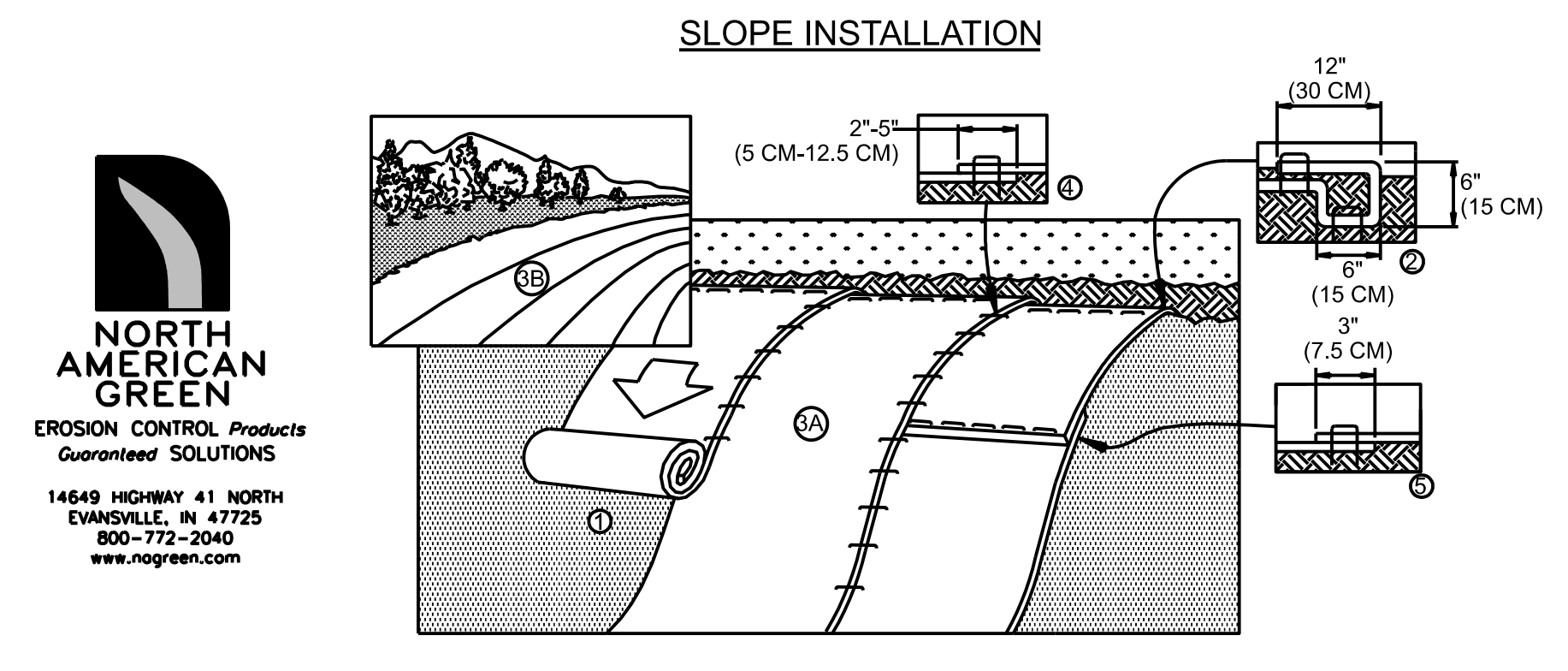


- NOTES:
- CLASS "A" RIPRAP.
 - RIPRAP SHOULD EXTEND UP BOTH SIDES OF THE APRON AND AROUND THE END OF THE PIPE OR CULVERT AT THE DISCHARGE OUTLET AT A MAXIMUM SLOPE OF 2:1 AND A HEIGHT NOT LESS THAN TWO THIRDS THE PIPE DIAMETER OR CULVERT HEIGHT.
 - THERE SHALL BE NO OVERFLOW FROM THE END OF THE APRON TO THE SURFACE OF THE RECEIVING CHANNEL. THE AREA TO BE PAVED OR RIPRAPPED SHALL BE UNDERCUT SO THAT THE INVERT OF THE APRON SHALL BE AT THE SAME GRADE (FLUSH) WITH THE SURFACE OF THE RECEIVING CHANNEL. THE APRON SHALL HAVE A CUTOFF OR TOE WALL AT THE DOWNSTREAM END.
 - THE WIDTH OF THE END OF THE APRON SHALL BE EQUAL TO THE BOTTOM WIDTH OF THE RECEIVING CHANNEL. MAXIMUM TAPER TO RECEIVING CHANNEL 5:1.
 - ALL SUBGRADE FOR STRUCTURE TO BE COMPACTED TO 95% OR GREATER.
 - THE PLACING OF FILL, EITHER LOOSE OR COMPACTED IN THE RECEIVING CHANNEL SHALL NOT BE ALLOWED.
 - NO BENDS OR CURVES IN THE HORIZONTAL ALIGNMENT OF THE APRON WILL BE PERMITTED.
 - DEPENDING ON SOIL CONDITIONS, WASHED STONE OR FILTER FABRIC WILL BE NECESSARY UNDER RIPRAP.
 - ANY DISTURBED AREA FROM END OF APRON TO RECEIVING CHANNEL MUST BE STABILIZED.

DATA BLOCK

APRON	D50	La	W1	W2	D	H
1	6"	10'	4'	12'	14"	12"

5 RIPRAP APRON AT PIPE OUTLETS
C5.2 NTS



- NOTES:
- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED PAPER SIDE DOWN.
 - BEGIN AT THE TOP OF THE SLOPE ANCHORING THE RECP'S IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. BACKFILL AND COMPACT WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP'S.
 - ROLL THE RECP'S (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
 - THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2'-5" (5 CM- 12.5 CM) OVERLAP DEPENDING ON RECP'S TYPE.
 - CONSECUTIVE RECP'S SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP'S WIDTH.
- NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO SECURE THE RECP'S.

4 SLOPE PROTECTION MATTING INSTALLATION
C5.2 NTS

- SEEDBED PREPARATION NOTES:
- SURFACE WATER CONTROL MEASURES TO BE INSTALLED ACCORDING TO PLAN.
 - AREAS TO BE SEEDED SHALL BE RIPPED AND SPREAD WITH AVAILABLE TOPSOIL 3-INCHES DEEP. TOTAL SEEDBED PREPARED DEPTH SHALL BE 4-INCHES TO 6-INCHES DEEP.
 - LOOSE ROCKS, ROOTS AND OTHER OBSTRUCTIONS SHALL BE REMOVED FROM THE SURFACE SO THAT THEY WILL NOT INTERFERE WITH ESTABLISHMENT AND MAINTENANCE OF VEGETATION. SURFACE FOR FINAL SEEDBED PREPARATION AT FINISHED GRADES SHOWN, SHALL BE REASONABLY SMOOTH AND UNIFORM.
 - FERTILIZER AND LIME TO BE APPLIED UNIFORMLY AND MIXED WITH SOIL DURING SEEDBED PREPARATION.
 - GRASS SEED SHALL BE "REBEL" FESCUE MIXTURE WITH A 97% MINIMUM PURITY AND 85% MINIMUM GERMINATION AND BE FREE OF NOXIOUS WEED SEEDS.
- SEEDING REQUIREMENTS: (SEED IN ACCORDANCE WITH THE FOLLOWING APPLICATION RATES)
- 350 LBS./AC REBEL FESCUE
4000LBS./AC AGRICULTURAL LIME
1000LBS./AC 10-10-10 FERTILIZER
500 LBS./AC 0-20-0 SUPERPHOSPHATE
1-1/2T./AC STRAW MULCH
225 GAL./AC ASPHALT TIE-DOWN
WORK LIME FERTILIZER INTO SOIL 3" TO 4" DEEP.
- NOTE: IN AREAS THAT WILL NOT BE WELL MAINTAINED, ALSO ADD 50 LBS./AC UNSCARIFIED SERICEA LESPEDEZA (AUGUST THROUGH NOVEMBER) OR 40 LBS./AC SCARIFIED SERICEA LESPEDEZA (DECEMBER THROUGH JULY).

3 PERMANENT SEEDING SPECIFICATIONS
C5.2

- SEEDBED PREPARATION NOTES:
- SURFACE WATER CONTROL MEASURES TO BE INSTALLED ACCORDING TO PLAN.
 - AREAS TO BE SEEDED SHALL BE RIPPED AND SPREAD WITH AVAILABLE TOPSOIL 3-INCHES DEEP. TOTAL SEEDBED PREPARED DEPTH SHALL BE 4-INCHES TO 6-INCHES DEEP.
 - LOOSE ROCKS, ROOTS AND OTHER OBSTRUCTIONS SHALL BE REMOVED FROM THE SURFACE SO THAT THEY WILL NOT INTERFERE WITH ESTABLISHMENT AND MAINTENANCE OF VEGETATION. SURFACE FOR FINAL SEEDBED PREPARATION AT FINISHED GRADES SHOWN, SHALL BE REASONABLY SMOOTH AND UNIFORM.
 - FERTILIZER AND LIME TO BE APPLIED UNIFORMLY AND MIXED WITH SOIL DURING SEEDBED PREPARATION.
- TEMPORARY SEEDING REQUIREMENTS: (SEED IN ACCORDANCE WITH THE FOLLOWING APPLICATION RATES)
- 80 LBS./AC TALL FESCUE
4000LBS./AC AGRICULTURAL LIME
1000LBS./AC 10-10-10 FERTILIZER
500 LBS./AC 0-20-0 SUPERPHOSPHATE
1-1/2T./AC STRAW MULCH
225 GAL./AC ASPHALT TIE-DOWN
30 LBS./AC RYE GRAIN (NOVEMBER THROUGH FEBRUARY)
WORK LIME FERTILIZER INTO SOIL 3" TO 4" DEEP.
- FOR PERMANENT SEEDING REQUIREMENTS: REFER TO THE LANDSCAPING PLANS IN THE ARCHITECTURAL PLAN SET.
- NOTE: IN AREAS THAT WILL NOT BE WELL MAINTAINED, ALSO ADD 50 LBS./AC UN SCARIFIED SERICEA LESPEDEZA (AUGUST THROUGH NOVEMBER) OR 40 LBS./AC SCARIFIED SERICEA LESPEDEZA (DECEMBER THROUGH JULY).

2 TEMPORARY SEEDING SPECIFICATIONS
C5.2

- IF NECESSARY, SLOPES WHICH EXCEED EIGHT (8) FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO SEEDED. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED EXCEPT AS STATED BELOW.
 - WHERE STABILIZATION BY THE 14th DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
 - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN (14) DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS AND WITHIN 24 HOURS AFTER EACH RAINFALL OCCURRENCE THAT EXCEEDS ONE-HALF (0.5) INCH. IF SITE INSPECTIONS OR OTHER INFORMATION IDENTIFY BMP'S THAT ARE DAMAGED, INAPPROPRIATELY OR INCORRECTLY INSTALLED, OR NOT OPERATING EFFECTIVELY, THEN MAINTENANCE MUST BE PERFORMED AS SOON AS PRACTICAL, OR AS REASONABLY POSSIBLE AND NO LESS THAN 48 HOURS FROM THE TIME OF IDENTIFICATION (PREFERABLY BEFORE THE NEXT STORM EVENT).
- PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY STORMWATER SYSTEMS, WATER COURSES, AND WATERS OF THE STATE (W6S) OR WATERS OF THE UNITED STATES (W6U.S.).
- ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFF-SITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
- THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
- RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONTRUITY. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEQ. AND SCR100000.
- TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS.
- ALL W6S OR W6U.S., INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SLIT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CANNOT BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL W6S AND A 130-FOOT MINIMUM BUFFER FOR W6U.S. A 25-FOOT NO DISTURBANCE ZONE SHALL BE MAINTAINED BETWEEN THE LAST ROW OF SLIT FENCE AND ALL W6S AND A MINIMUM 50-FOOT NO DISTURBANCE ZONE FOR W6U.S. BUFFERS AND NO DISTURBANCE ZONES SHALL BE MEASURED FROM TOP OF CREEK BANK.
- LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- A COPY OF THE SWPPP (INCLUDING CIVIL CONSTRUCTION PLANS AND SUPPORTING DOCUMENTS), INSPECTIONS RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF SEVEN (7) CALENDAR DAYS.
- MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE AND STOCKPILE TOPSOIL FOR REUSE.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMP'S (SEDIMENT BASIN, FILTER BAG, ETC.).
- WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FROM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS; FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
- IF EXISTING BMP'S NEED TO BE MODIFIED OR IF ADDITIONAL BMP'S ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMP'S MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.
- CONCRETE TRUCKS SHALL NOT TYPICALLY BE WASHED OUT ON SITE. IF CONCRETE TRUCK WASHOUT IS PERMITTED ON SITE, COORDINATE LOCATION AND BMP'S WITH SITE INSPECTOR.
- DO NOT DISPOSE OF CONCRETE TRUCK WASHOUT WATER BY DUMPING INTO A SANITARY SEWER, STORM DRAIN OR ONTO SOIL OR PAVEMENT THAT CARRIES STORM WATER RUNOFF.
- CONCRETE TRUCK WASHOUT SHALL BE DISPOSED OF IN ACCORDANCE WITH THE FOLLOWING:
 - DESIGNATED AREA THAT WILL LATER BE BACKFILLED (SLURRY PIT).
 - DESIGNATED AREA WHERE CONCRETE WASH CAN HARDEN AND BE DISPOSED OF AS SOLID WASTE.
 - LOCATION THAT IS NOT SUBJECT TO WATER RUNOFF, AND MORE THAN 50- FEET AWAY FROM A STORM DRAIN, OPEN DITCH, OR RECEIVING WATER WAY.
 - PUMP EXCESS CONCRETE IN CONCRETE PUMP BIN BACK INTO CONCRETE MIXER TRUCK.
 - CONCRETE WASHOUT FROM CONCRETE PUMPER BINS CAN BE WASHED INTO CONCRETE PUMPER TRUCKS AND DISCHARGED INTO DESIGNATED WASHOUT AREA OR PROPERLY DISPOSED OF OFF-SITE.
- THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
 - WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL.
 - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURSING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS.
 - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
 - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- ALL CHEMICAL SPILLS, OIL SPILLS, OR FISH KILLS MUST BE REPORTED TO SCDHEC LAND & WASTE MANAGEMENT EMERGENCY RESPONSE. CALL THE 24-HOUR EMERGENCY RESPONSE LINE AT 1-888-481-0125.
- TEMPORARY TOILET FACILITIES SHALL BE PROVIDED FOR ALL CONSTRUCTION WORKERS AND SITE VISITORS IN ACCORDANCE WITH 2006 INTERNATIONAL PLUMBING CODE GENERAL REGULATIONS, SECTION 311. PORTABLE FACILITIES SHALL BE PLACED ON LEVEL GROUND AND AWAY FROM STORM DRAINAGE SYSTEMS (DITCHES, CATCH BASINS, ETC.). DISPOSAL AND HANDLING OF SANITARY WASTE MUST COMPLY WITH SCDHEC REQUIREMENTS.
- FINAL GRADES FOR GRASSED AND LANDSCAPED AREAS SHALL REQUIRE A MINIMUM OF 4"-6" OF CLEAN TOPSOIL, FREE OF DEBRIS AND CONTAMINANTS, AND PREFERABLY OF NATIVE ORIGIN.
- SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE AND AT THE INLET PROTECTION SEDIMENT FENCE WHEN IT BECOMES ABOUT 0.5- FEET DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
- ALL SEEDED AREAS SHALL BE FERTILIZED, RE-SEEDED AS NECESSARY AND MULCHED ACCORDING TO SPECIFICATIONS TO MAINTAIN A VIGOROUS, DENSE VEGETATION COVER.
- THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES TO MINIMIZE EROSION.

1 EROSION CONTROL MAINTENANCE SCHEDULE/STANDARD NOTES
C5.2

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FORT MILL, SOUTH CAROLINA

REVISIONS

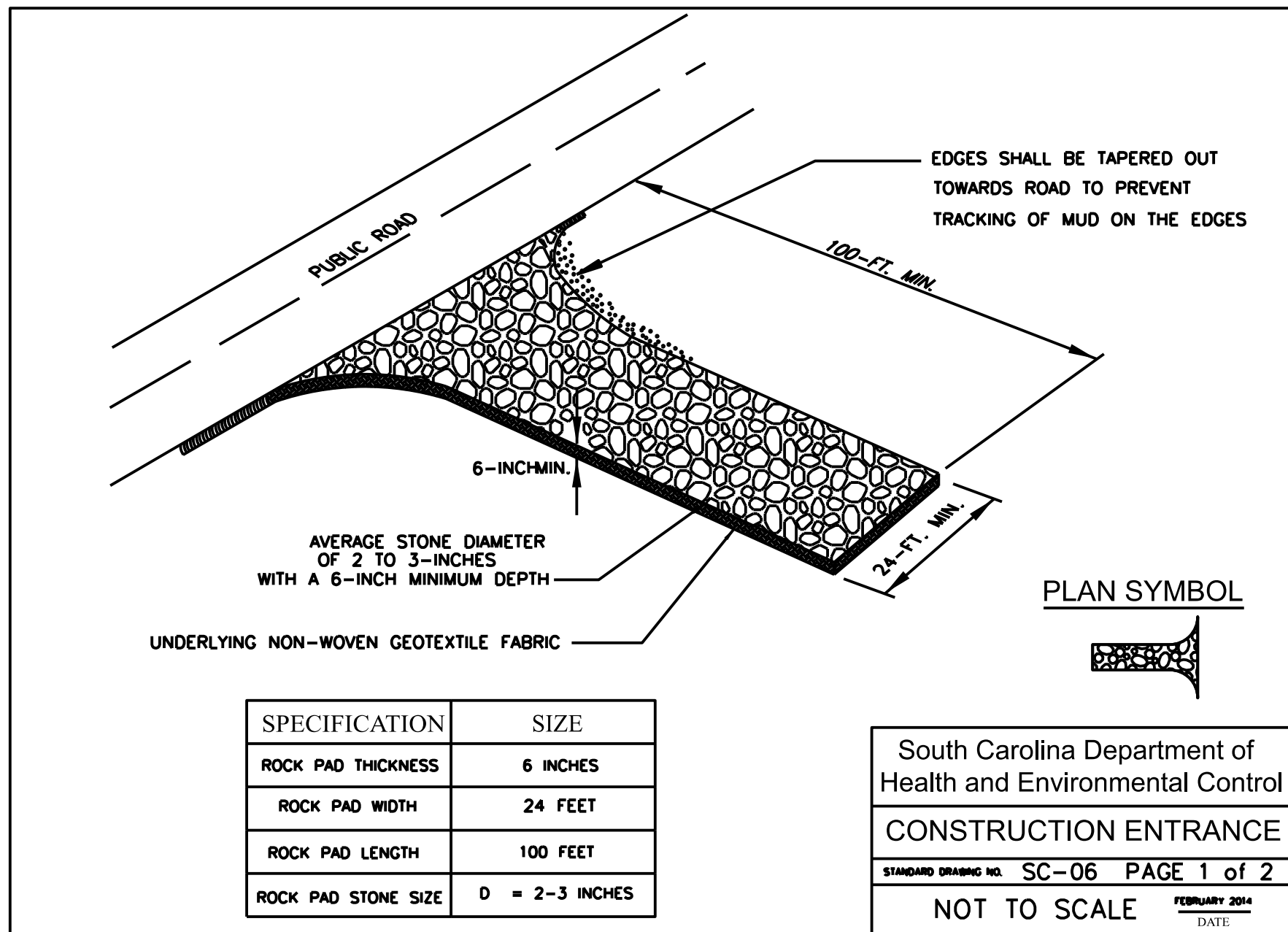
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EROSION CONTROL DETAILS

04-14-2023

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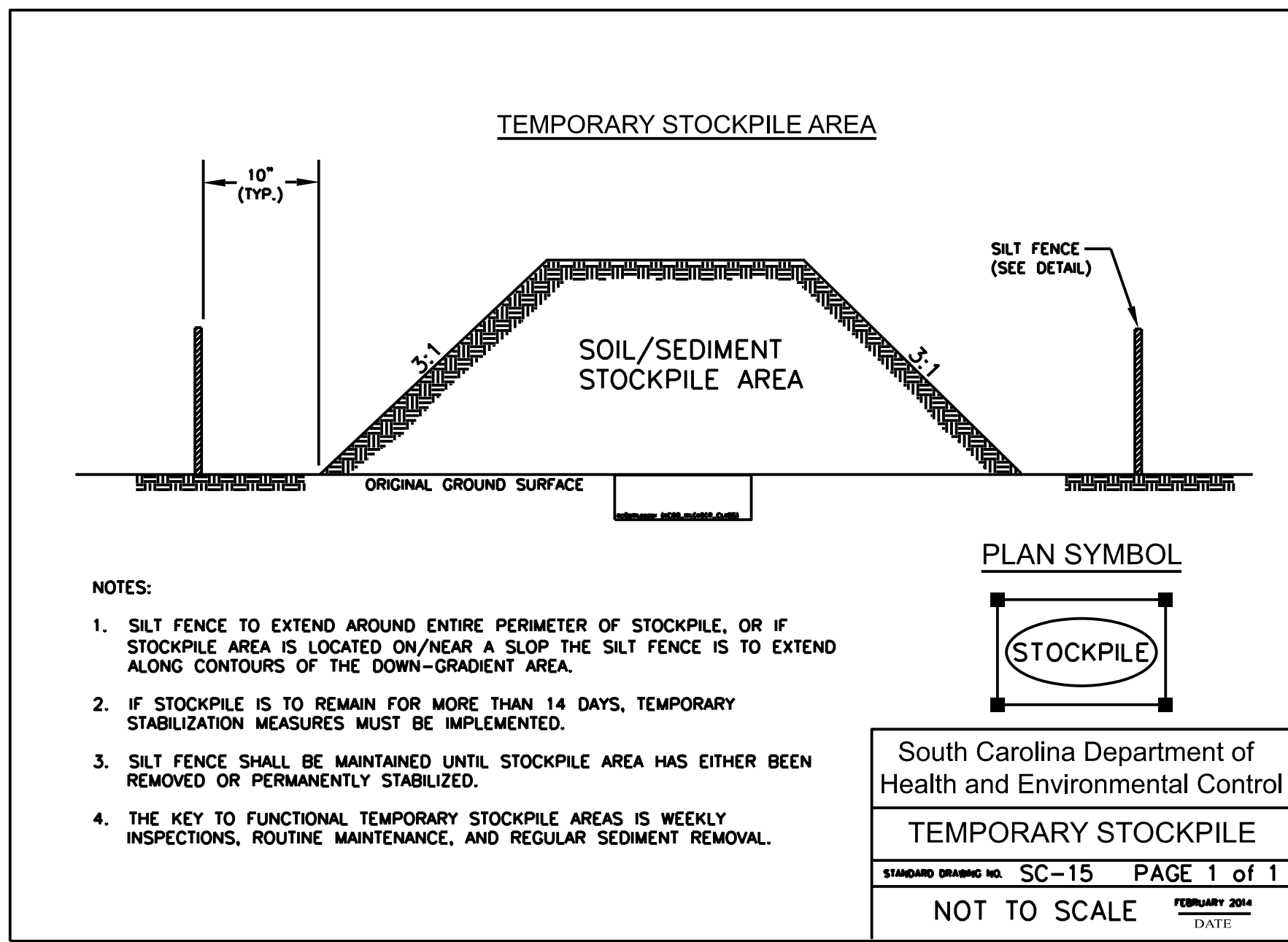
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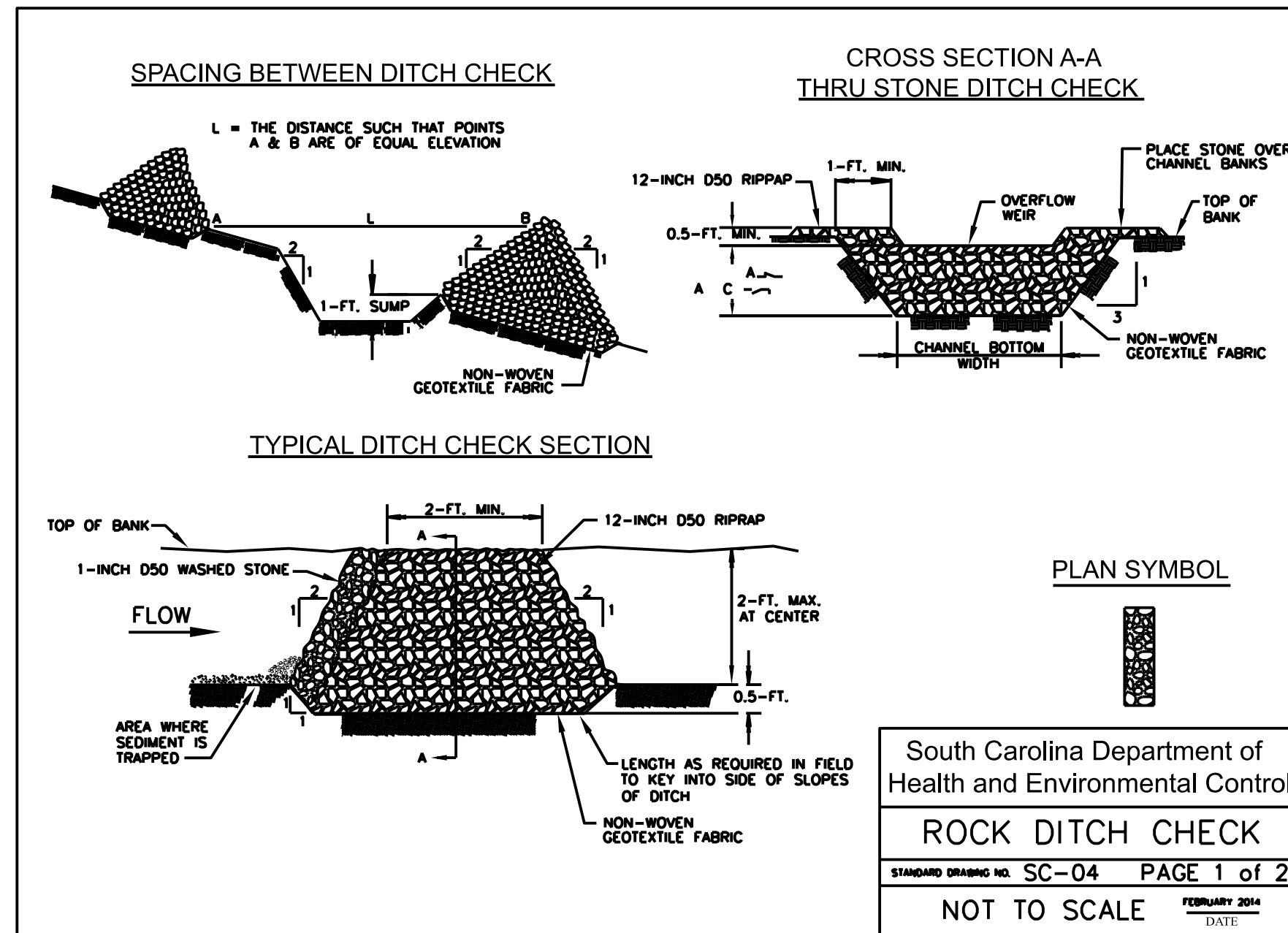
South Carolina Department of Health and Environmental Control
CONSTRUCTION ENTRANCE
 STANDARD DRAWING NO. SC-06 PAGE 1 of 2
 NOT TO SCALE
 FEBRUARY 2014

- CONSTRUCTION ENTRANCE - GENERAL NOTES**
- Stabilized construction entrances should be used at all points where traffic will egress/ingress a construction site onto a public road or any impervious surfaces, such as parking lots.
 - Install a non-woven geotextile fabric prior to placing any stone.
 - Install a culvert pipe across the entrance when needed to provide positive drainage.
 - The entrance shall consist of 2-inch to 3-inch D50 stone placed at a minimum depth of 6-inches.
 - Minimum dimensions of the entrance shall be 24-feet wide by 100-feet long, and may be modified as necessary to accommodate site constraints.
 - The edges of the entrance shall be tapered out towards the road to prevent tracking of the edge of the entrance.
 - Divert all surface runoff and drainage from the stone pad to a sediment trap or basin or other sediment trapping structure.
 - Limestone may not be used for the stone pad.
- CONSTR. ENTRANCE - INSPECTION & MAINTENANCE**
- The key to functional construction entrances is weekly inspections, routine maintenance, and regular sediment removal.
 - Regular inspections of construction entrances shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
 - During regular inspections, check for mud and sediment buildup and pad integrity. Inspection frequencies may need to be more frequent during long periods of wet weather.
 - Reshape the stone pad as necessary for drainage and runoff control.
 - Wash or replace stones as needed and as directed by site inspector. The stone in the entrance should be washed or replaced whenever the entrance fails to reduce the amount of mud being carried off-site by vehicles. Frequent washing will extend the useful life of stone pad.
 - Immediately remove mud and sediment tracked or washed onto adjacent impervious surfaces by brushing or sweeping. Flushing should only be used when the water can be discharged to a sediment trap or basin.
 - During maintenance activities, any broken pavement should be repaired immediately.
 - Construction entrances should be removed after the site has reached final stabilization. Permanent vegetation should replace areas from which construction entrances have been removed, unless area will be converted to an impervious surface to serve post-construction.

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CONSTRUCTION ENTRANCE
 STANDARD DRAWING NO. SC-06 PAGE 2 of 2
 GENERAL NOTES
 FEBRUARY 2014

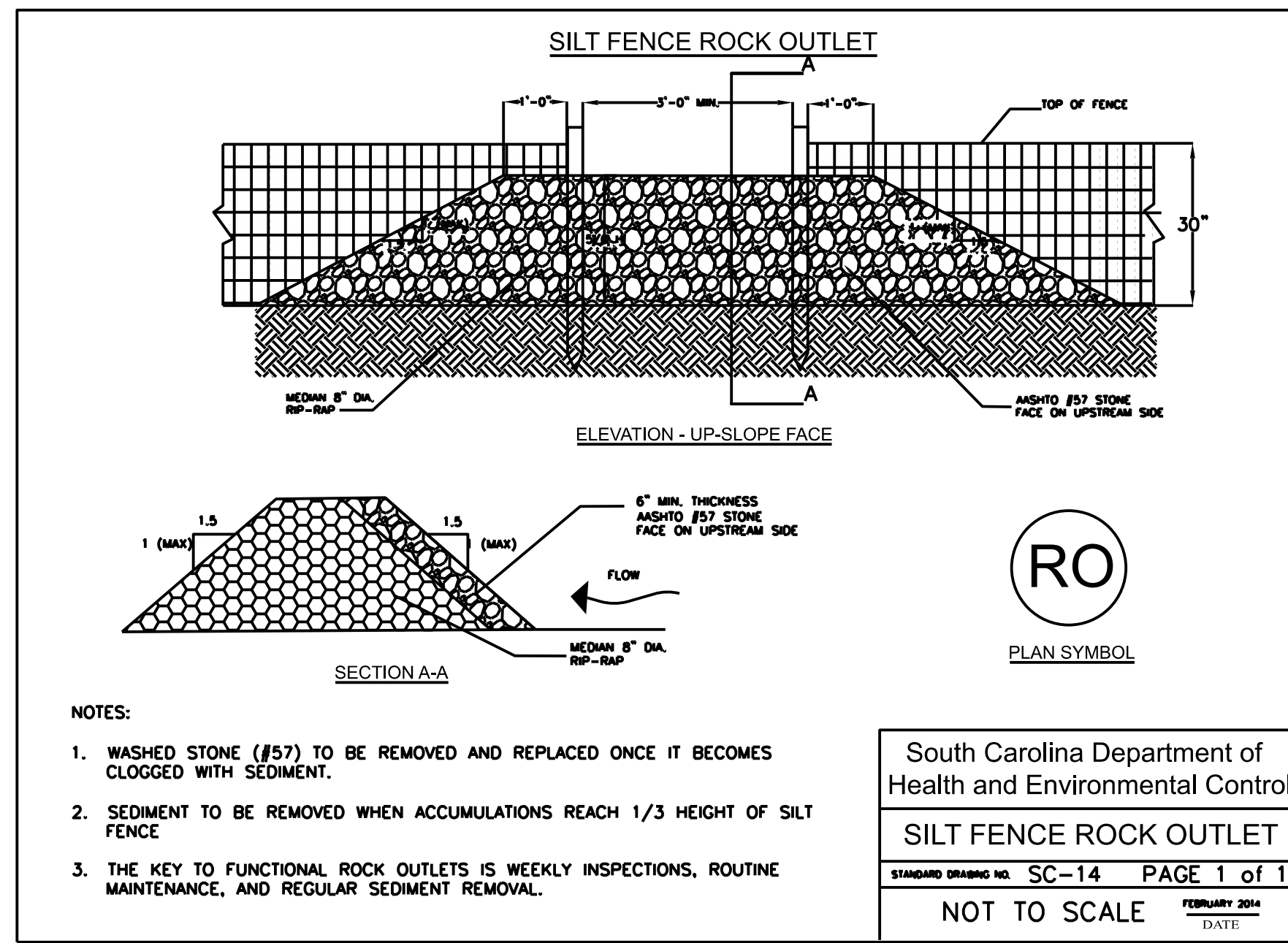


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TEMPORARY STOCKPILE
 STANDARD DRAWING NO. SC-15 PAGE 1 of 1
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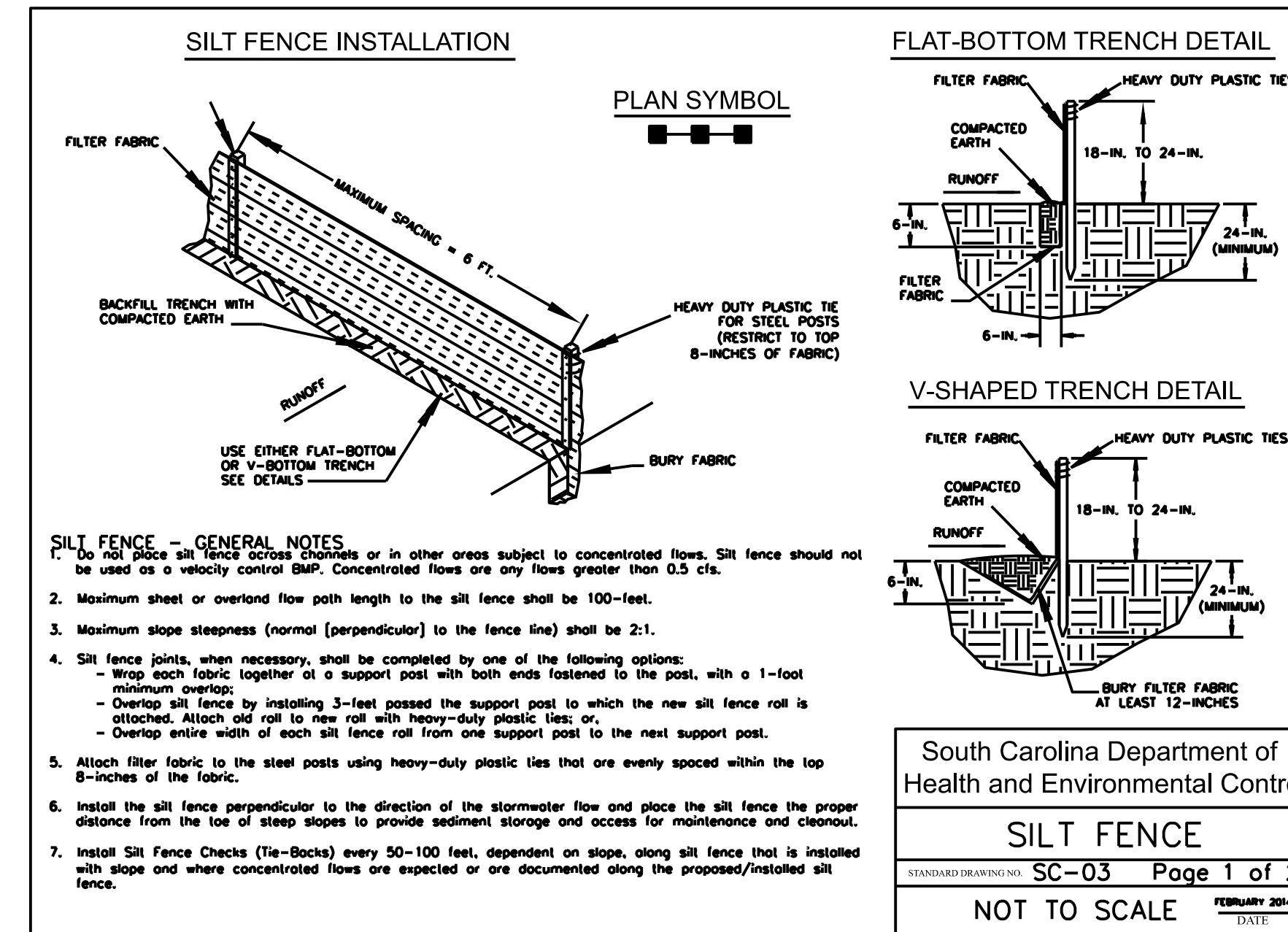


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ROCK DITCH CHECK
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ROCK DITCH CHECK
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 GENERAL NOTES
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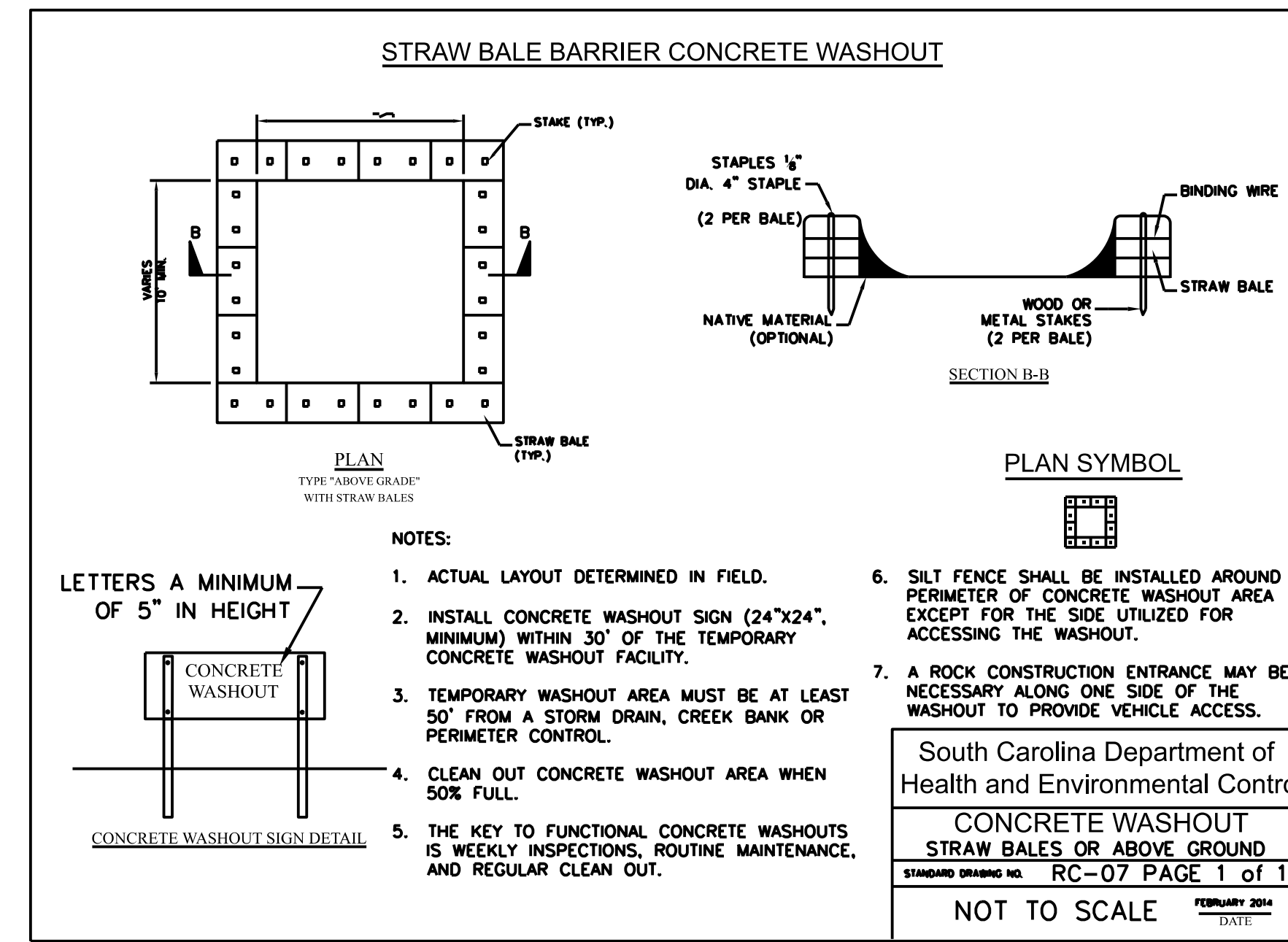
South Carolina Department of Health and Environmental Control
SILT FENCE ROCK OUTLET
 STANDARD DRAWING NO. SC-14 PAGE 1 of 1
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South Carolina Department of Health and Environmental Control
SILT FENCE
 STANDARD DRAWING NO. SC-03 Page 1 of 2
 NOT TO SCALE
 FEBRUARY 2014

- SILT FENCE - POST REQUIREMENTS**
- Silt Fence posts must be 48-inch long steel posts that meet, at a minimum, the following physical characteristics:
 - Composed of a high strength steel with a minimum yield strength of 50,000 psi;
 - Include a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" length of 1.48-inches;
 - Weight 1.25 pounds per foot (± 8%).
 - Posts shall be equipped with projections to aid in fastening of filter fabric.
 - Steel posts may need to have a metal soil stabilization plate welded near the bottom when installed along steep slopes or installed in loose soils. The plate should have a minimum cross section of 17-square inches and be composed of 15 gauge steel, at a minimum. The metal soil stabilization plate should be completely buried.
 - Post spacing shall be at a maximum of 6-feet on center.
- SILT FENCE - FABRIC REQUIREMENTS**
- Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements:
 - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polypropylene, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability relative to each other;
 - Free of any treatment or coating which might adversely affect its physical properties after installation;
 - Free of any defects or flaws that significantly affect its physical and/or filtering properties; and,
 - Have a minimum width of 36-inches.
 - Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approved Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.
 - 12-inches of the fabric should be placed within excavated trench and tamped in when the trench is backfilled.
 - Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.
 - Filter Fabric shall be installed at a minimum of 24-inches above the ground.
- SILT FENCE - INSPECTION & MAINTENANCE**
- The key to functional silt fence is weekly inspections, routine maintenance, and regular sediment removal.
 - Regular inspections of silt fence shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall event that produces 1/2-inch or more of precipitation.
 - Attention to sediment accumulations along the silt fence is extremely important. Accumulated sediment should be continuously monitored and removed when necessary.
 - Remove accumulated sediment when it reaches 1/3 the height of the silt fence.
 - Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment after it is relocated.
 - Check for areas where stormwater runoff has eroded a channel beneath the silt fence, or where the fence has sagged or collapsed due to runoff overtopping the silt fence. Install checks/tea-bags and/or reinstall silt fence, as necessary.
 - Check for tears within the silt fence, areas where silt fence has begun to decompose, and for any other circumstances that may render the silt fence ineffective. Removed damaged silt fence and reinstall new silt fence immediately.
 - Silt fence should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently stabilized.

South Carolina Department of Health and Environmental Control
SILT FENCE
 STANDARD DRAWING NO. SC-03 PAGE 2 of 2
 GENERAL NOTES
 FEBRUARY 2014



South Carolina Department of Health and Environmental Control
CONCRETE WASHOUT STRAW BALES OR ABOVE GROUND
 STANDARD DRAWING NO. RC-07 PAGE 1 of 1
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ALTERNATIVE SCHOOL
MODULAR CLASSROOM SITE
 FORT MILL, SOUTH CAROLINA

REVISIONS		
NO.	DATE	DESCRIPTION

EROSION CONTROL DETAILS

Alan C. Williams
 No. 528
 STATE OF SOUTH CAROLINA
 PROFESSIONAL ENGINEER
 04-14-2023

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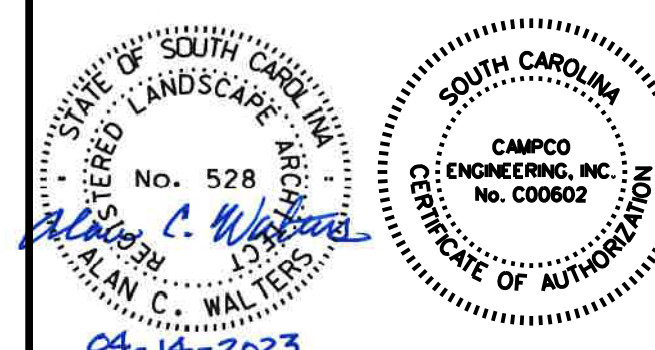
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STORM DRAINAGE PLAN

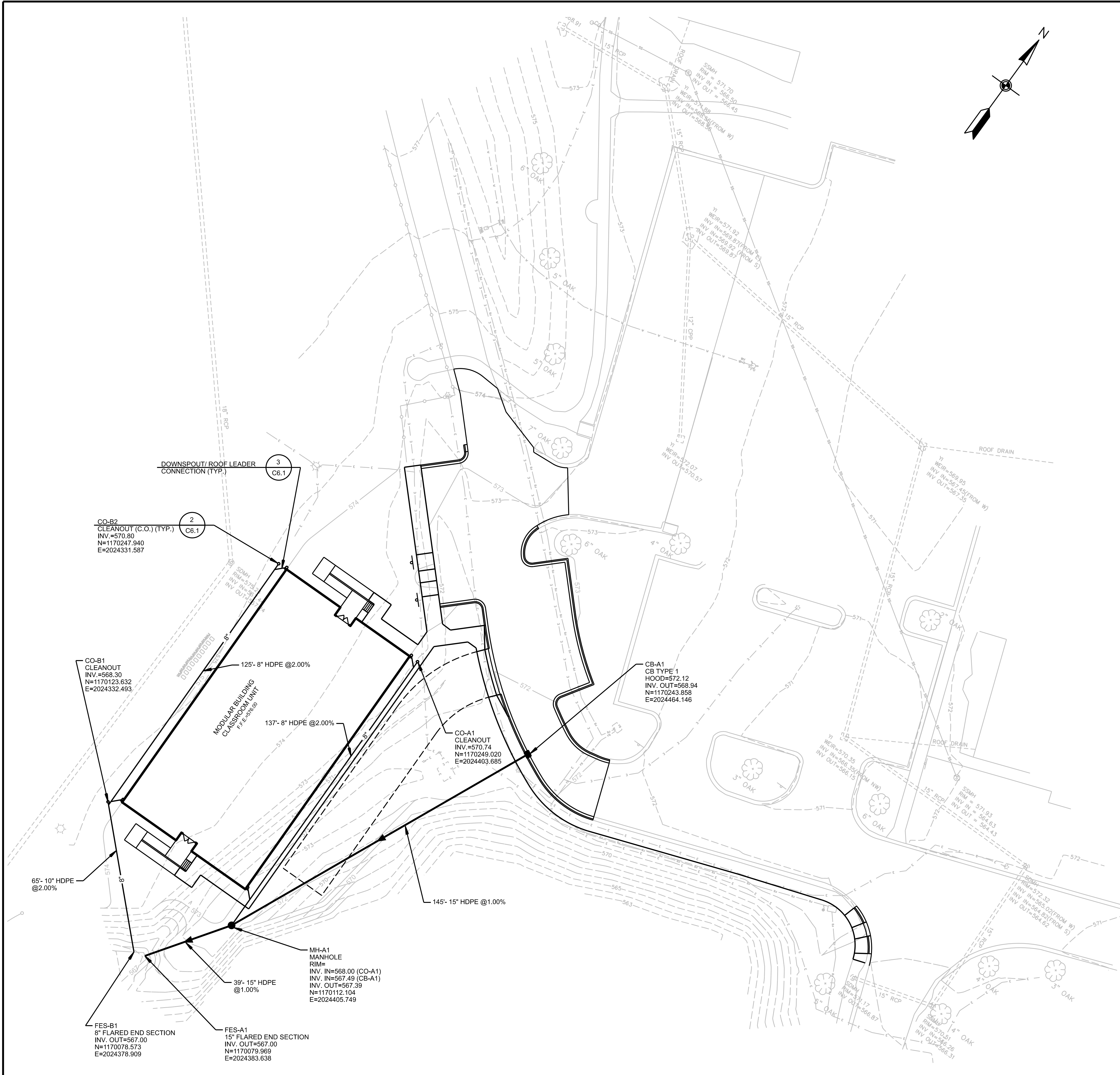


STORM DRAINAGE NOTES:

- OWNER TO DETERMINE LOCATIONS OF DOWNSPOUTS. COORDINATE CONSTRUCTION OF ROOF DRAIN (RD) COLLECTION SYSTEM WITH THE ARCHITECTURAL PLANS. PROVIDE CLEANOUTS AT EACH RD COLLECTION SYSTEM CONNECTION.
- THE PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER TO CENTER OF STRUCTURES.
- COORDINATE LOCATION FOR DRAINAGE STRUCTURES IS CENTER OF STRUCTURE ON MANHOLES AND CLEANOUTS, AND AT BACK OF CURB ON TYPE 1 CATCH BASINS.
- FOR DRAINAGE STRUCTURE DETAILS:
MANHOLE - SCDOT STD. DWG. NO. 719-505-01
TYPE 1 CATCH BASIN - SCDOT STD. DWG. NO. 719-001-01
- CONCRETE CURB AND GUTTER TRANSITIONS SHALL BE CONSTRUCTED AT ALL TYPE 1 CATCH BASINS. REFER TO DETAIL 1 ON SHEET C6.1.
- 8" — 8" HDPE RD LEADER @ 2.00% MIN. SLOPE
 — 8" — 8" HDPE RD LEADER @ 2.00% MIN. SLOPE
- CONNECT ALL CONDENSATE LINES TO ROOF DRAIN LEADER SYSTEM. (REFER TO ARCHITECTURAL PLANS FOR CONDENSATE LINE LOCATIONS).

STORM DRAINAGE RECORD PLAN REQUIRED DATA:

- AT PROJECT'S COMPLETION, CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A RECORD PLAN SURVEY OF THE PROJECT'S PERMANENT STORMWATER BMPs. THE RECORD PLAN SURVEY SHOULD BE COMPLETED BY A LICENSED LAND SURVEYOR AND INCLUDE THE FOLLOWING INFORMATION:
 - ALL NEW CLOSED DRAINAGE STRUCTURES SHALL IDENTIFY THE STRUCTURE'S RIMHOOD/GRATE ELEVATION, ALL INVERT-IN ELEVATION(S), AND INVERT-OUT ELEVATION.
 - ALL NEW CLOSED DRAINAGE SYSTEM PIPES SHALL IDENTIFY PIPE'S LENGTH, DIAMETER, MATERIAL, AND SLOPE.



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C6.0

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**FORT MILL SCHOOL DISTRICT
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FORT MILL, SOUTH CAROLINA

UTILITY NOTES:

1. FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
2. P.V.C. WATER LINES SHALL BE C-900, UNLESS OTHERWISE NOTED, AND SHALL BE INSTALLED WITH 3' MINIMUM COVER.
3. WATER METER AND VAULT SHALL MEET YORK COUNTY REQUIREMENTS. COORDINATE METER AND VAULT INSTALLATION WITH YORK COUNTY.
4. UTILITY CONDUITS SHALL BE 6" SCHEDULE 40 PVC AND SHALL BE INSTALLED WITH 3' MINIMUM COVER. STAKE ENDS OF CONDUIT WITH 2X2 HUB SET FLUSH WITH FINISHED GRADE.
5. REFER TO DETAILS 10.02, 10.03, AND 10.04 ON SHEET C7.2 FOR ADDITIONAL YORK COUNTY UTILITY NOTES.
6. PROVIDE RECORD DRAWING INFORMATION OF THE WATER LINE AND SANITARY SEWER LINE TO THE ENGINEER PRIOR TO REQUESTING A FINAL INSPECTION.
7. WHERE APPLICABLE, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH YORK COUNTY POLICIES, PROCEDURES, STANDARDS AND SPECIFICATIONS.

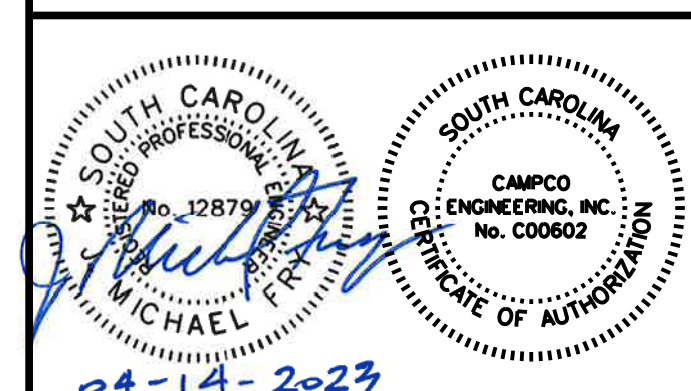
WATER SYSTEM RECORD PLAN REQUIRED DATA:

1. CONTRACTOR SHALL PROVIDE A RECORD PLAN SURVEY WITH LOCATIONS FOR ALL WATER LINE APPURTENANCES, WATER SERVICES AND ALL PIPE SIZES AND MATERIALS DOCUMENTED.
2. THE RECORD PLAN SURVEY SHALL BE PROVIDED TO THE ENGINEER PRIOR TO THE BACTERIOLOGICAL SAMPLE TESTING TO ALLOW ADEQUATE TIME FOR REVIEW AND MUNICIPALITY APPROVAL BEFORE THE SAMPLE'S 30 DAYS EXPIRATION.

REVISIONS

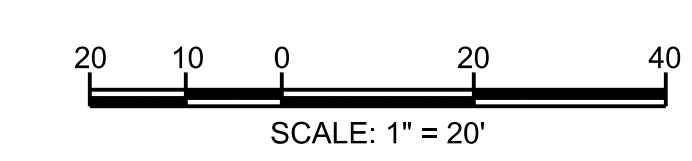
NO.	DATE	DESCRIPTION

WATER PLAN



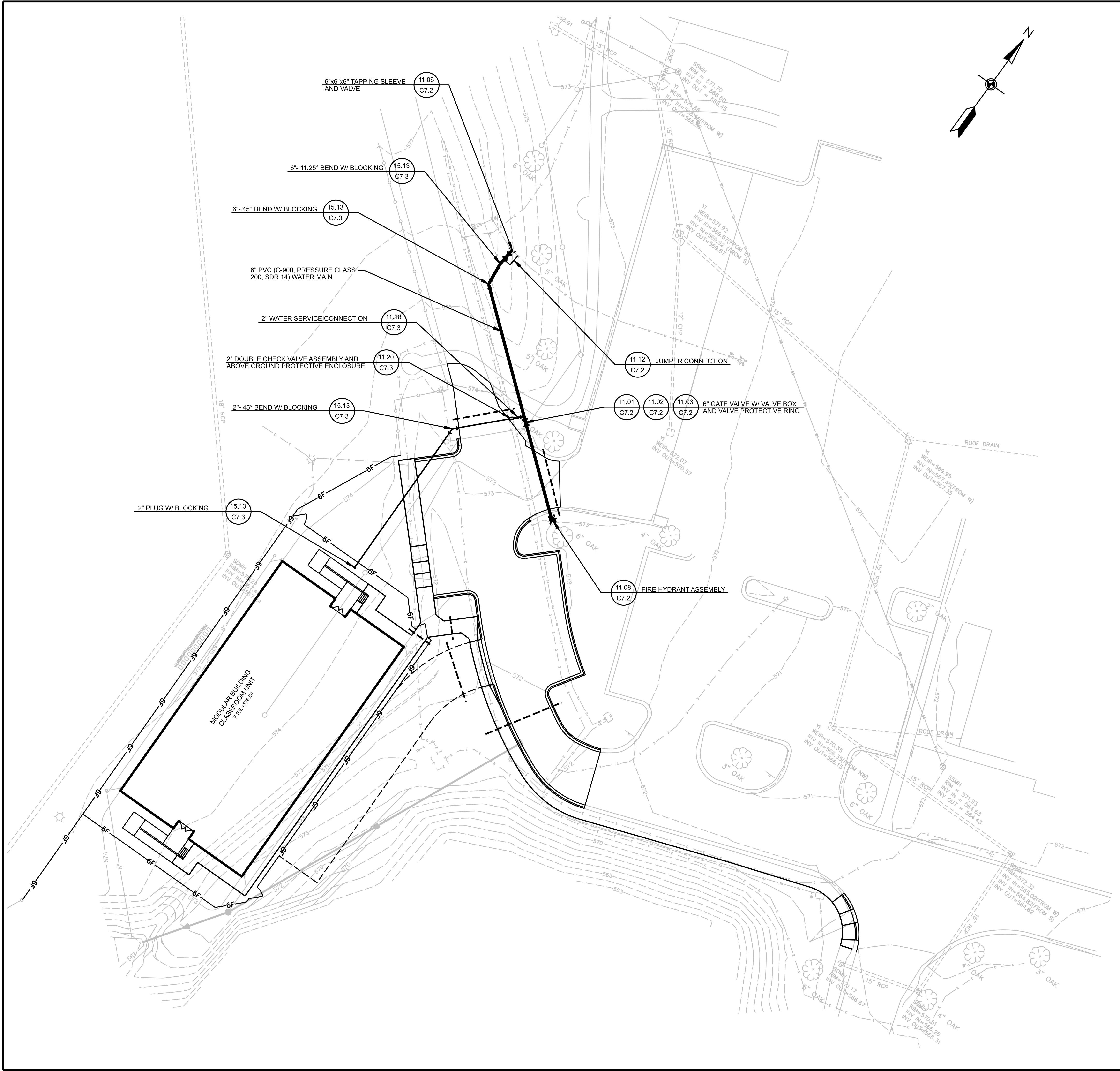
LEGEND

6" UTILITY CONDUIT (REFER TO NOTE 8) - - - - -

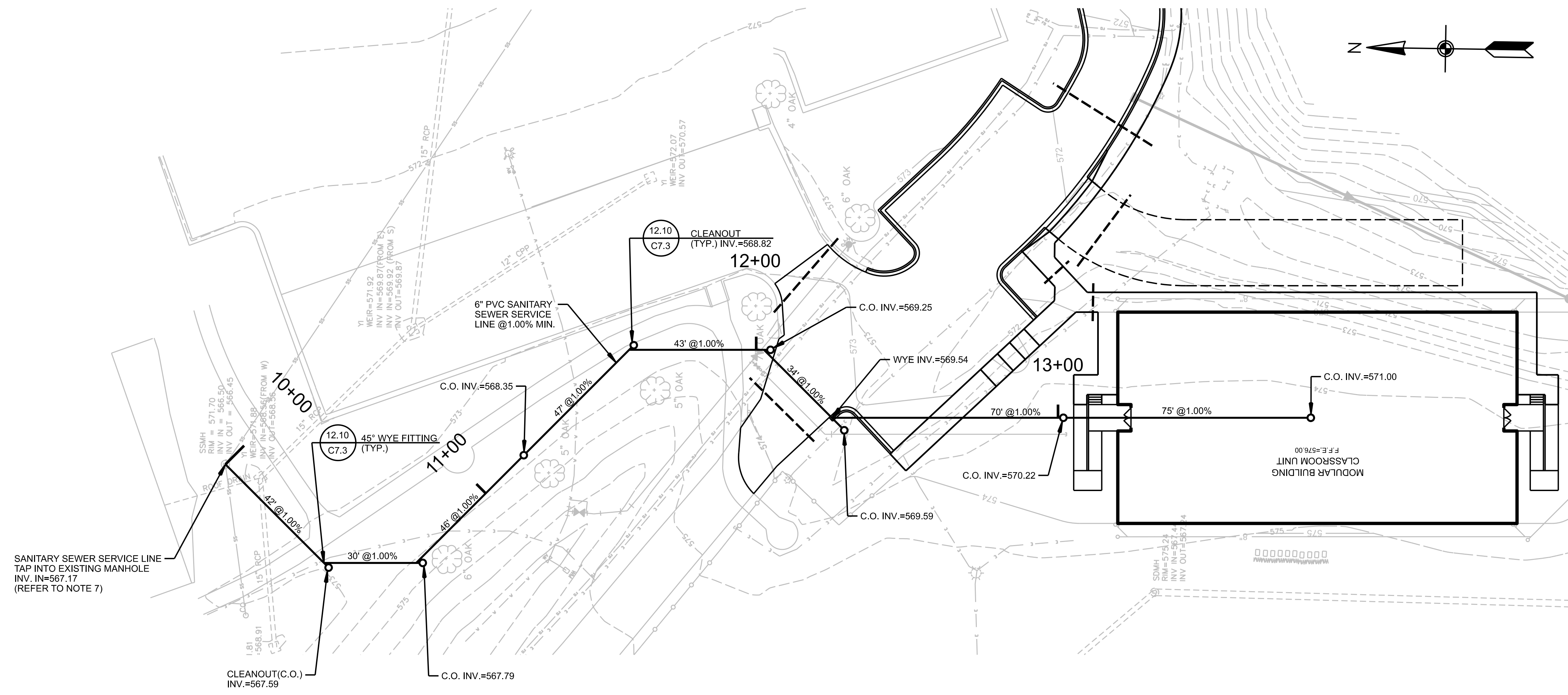


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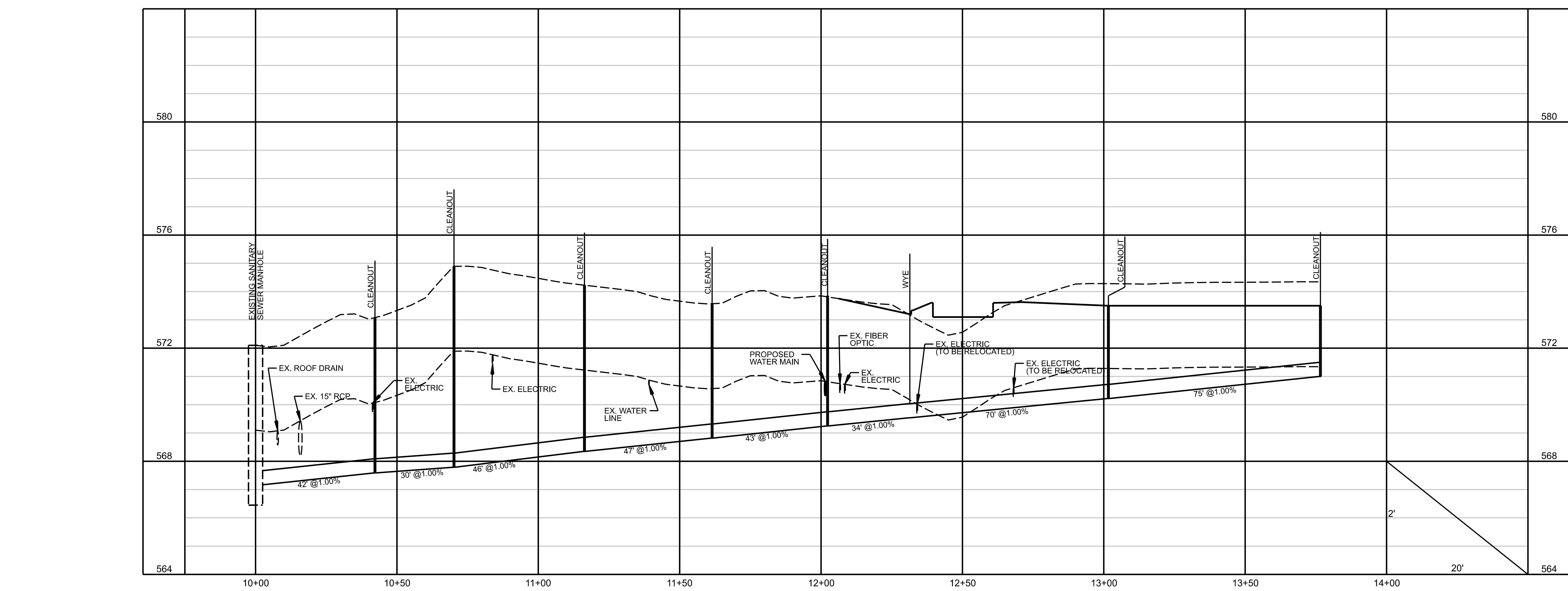
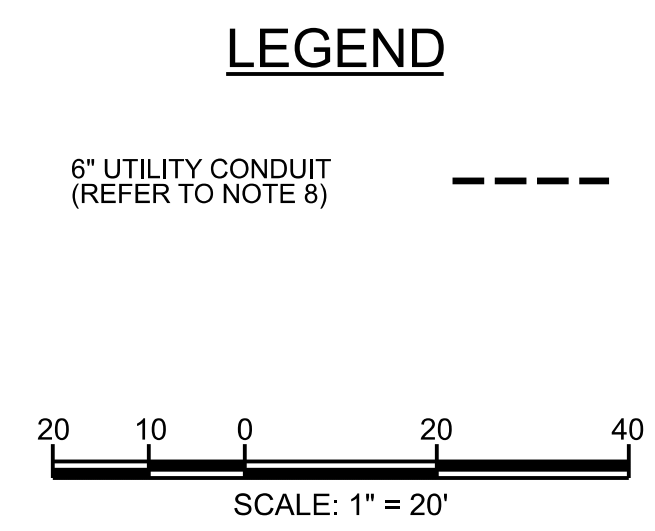


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4/14/2023



- UTILITY NOTES:**
1. FIELD VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
 2. SANITARY SEWER LINES SHALL BE SDR 35 PVC PIPE AT 1.00% MIN. SLOPE.
 3. COORDINATE LOCATIONS OF THE SANITARY SEWER SERVICE LINES WITH THE PLUMBING PLANS. CLEANOUTS TO BE SET AT 75' O.C. MAXIMUM.
 4. REFER TO SHEET C7.1 FOR SANITARY SEWER SERVICE PROFILE.
 5. EXISTING MANHOLE TO BE FIELD-CORED WITH FLEXIBLE SYNTHETIC RUBBER BOOT CONNECTOR INSTALLED. SIZE OF HOLE TO BE AS RECOMMENDED BY BOOT MANUFACTURER FOR THE 6" PIPE SIZE BEING INSERTED.
 6. UTILITY CONDUITS SHALL BE 6" SCHEDULE 40 PVC AND SHALL BE INSTALLED WITH 3" MINIMUM COVER. STAKE ENDS OF CONDUIT WITH 2x2 HUB SET FLUSH WITH FINISHED GRADE.
 7. REFER TO DETAILS 10.02, 10.03, AND 10.04 ON SHEET C7.2 FOR ADDITIONAL YORK COUNTY UTILITY NOTES.
 8. PROVIDE RECORD DRAWING INFORMATION OF THE WATER LINE AND SANITARY SEWER LINE TO THE ENGINEER PRIOR TO REQUESTING A FINAL INSPECTION.
 9. WHERE APPLICABLE, ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH YORK COUNTY POLICIES, PROCEDURES, STANDARDS AND SPECIFICATIONS.

- SANITARY SEWER RECORD PLAN REQUIRED DATA:**
1. CONTRACTOR SHALL PROVIDE A RECORD PLAN SURVEY WITH LOCATIONS FOR SEWER SERVICES, CLEANOUTS, AND ALL PIPE SIZES, MATERIALS, AND LENGTHS DOCUMENTED.
 2. CONTRACTOR SHALL PROVIDE A RECORD PLAN SURVEY WITH CLEANOUT INVERT ELEVATIONS.



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SANITARY SEWER PLAN

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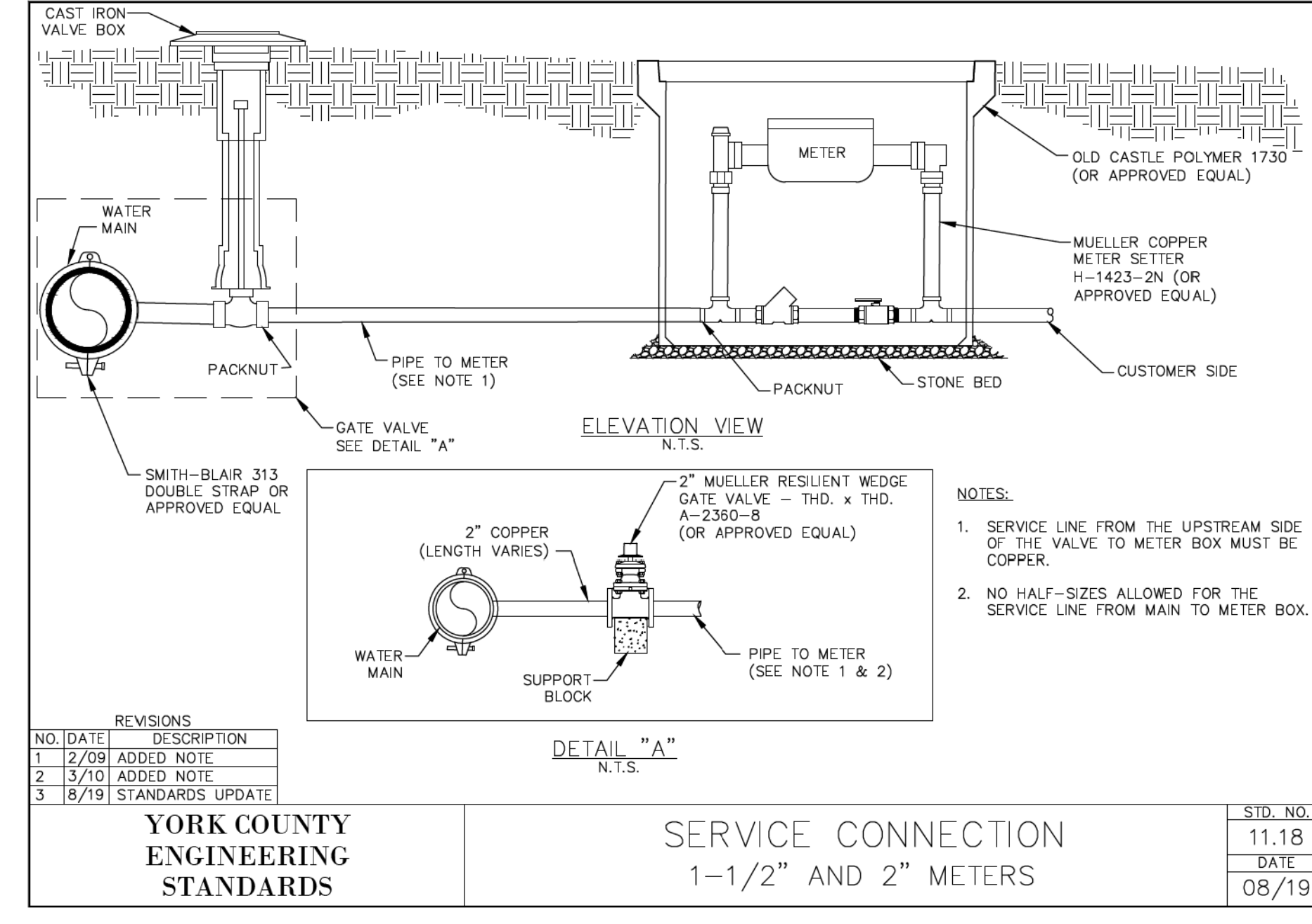
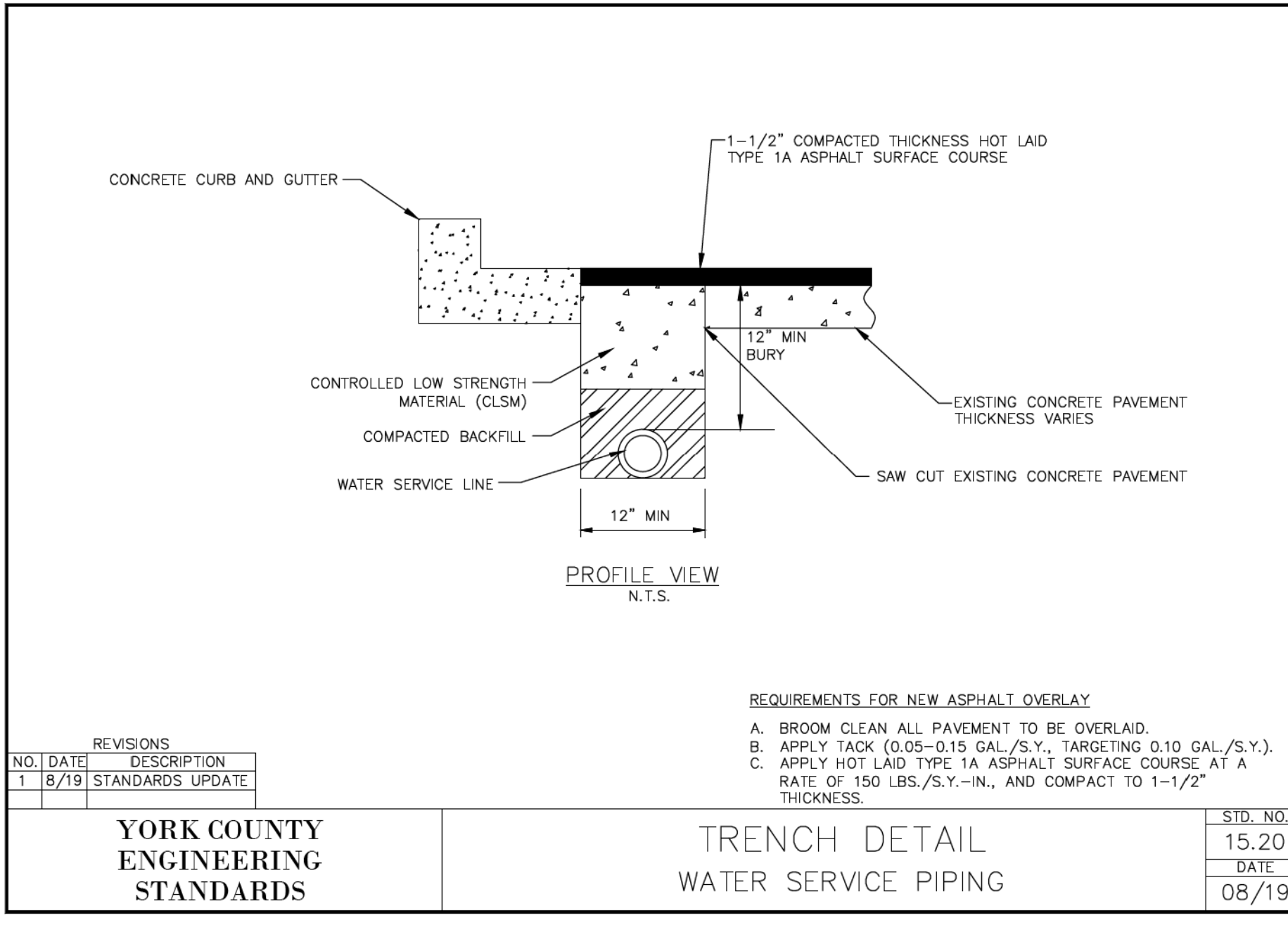
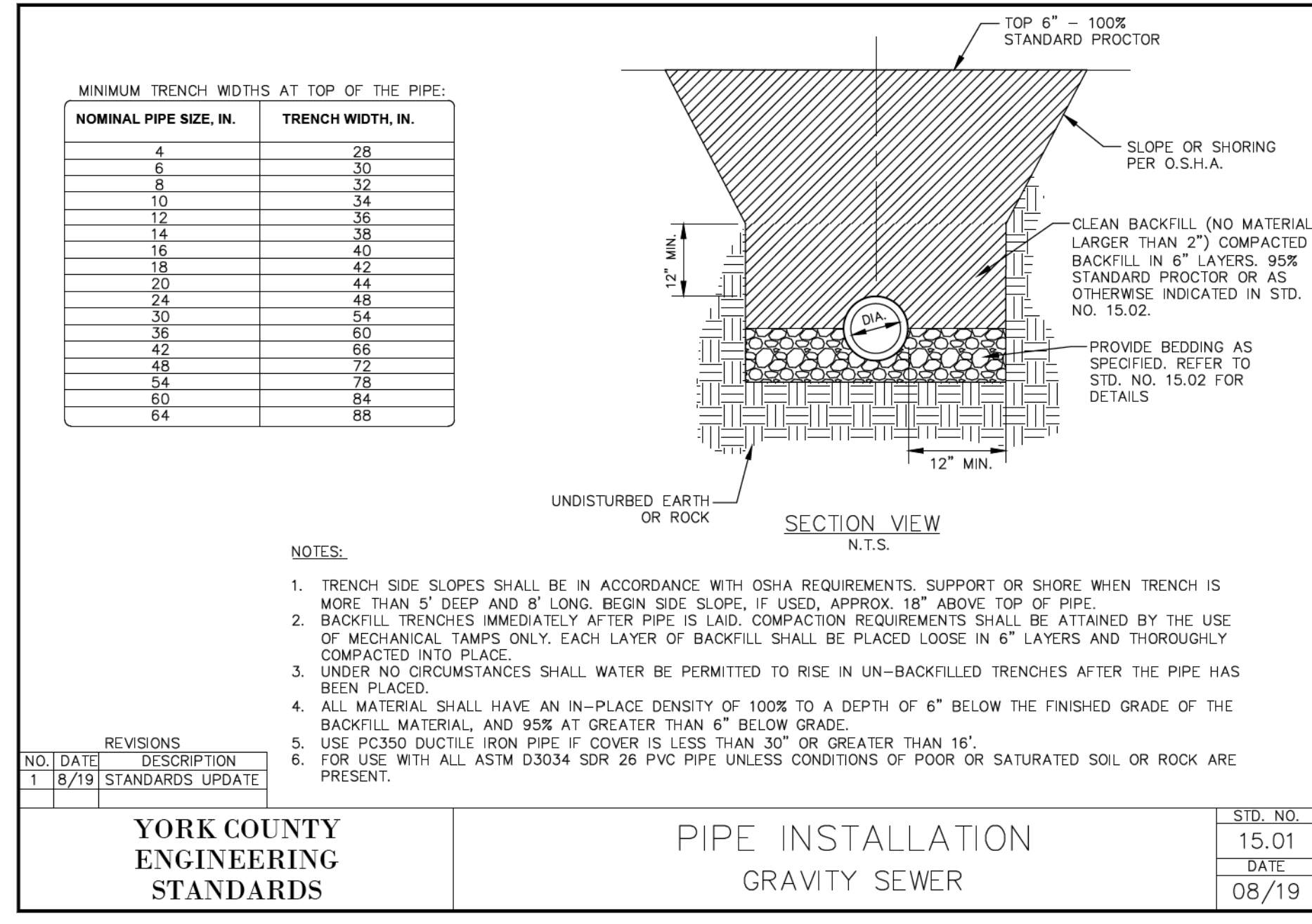
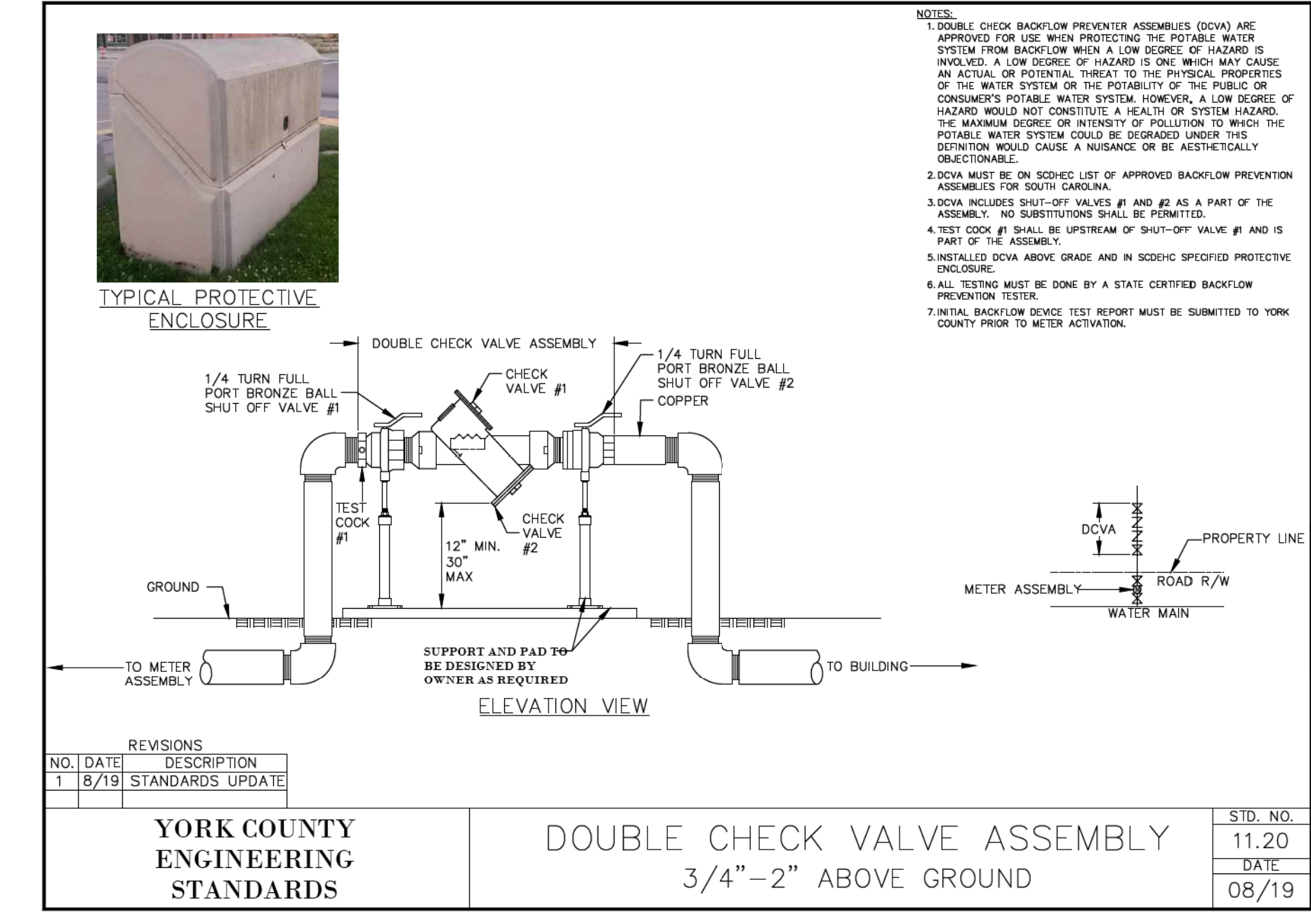
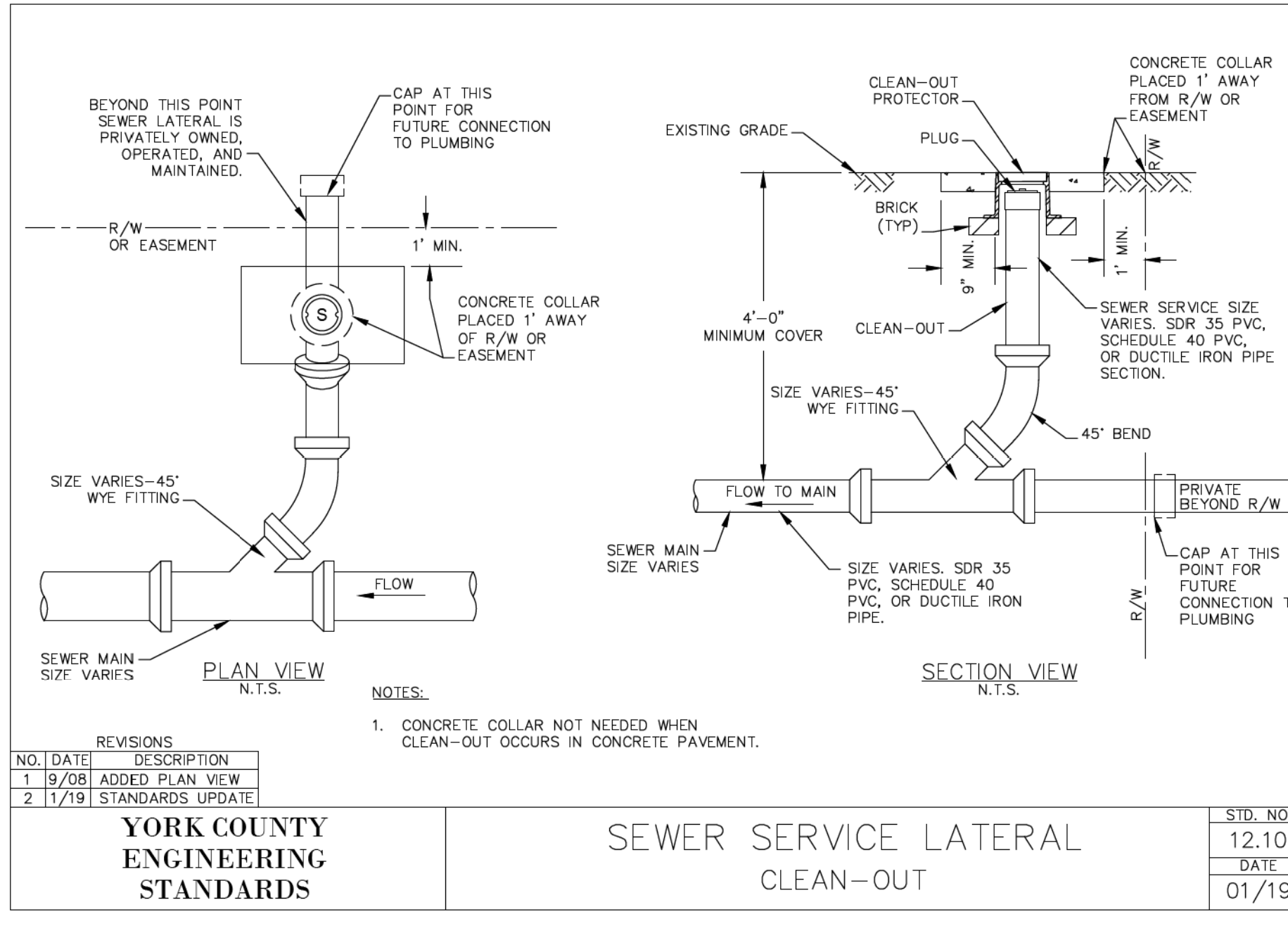
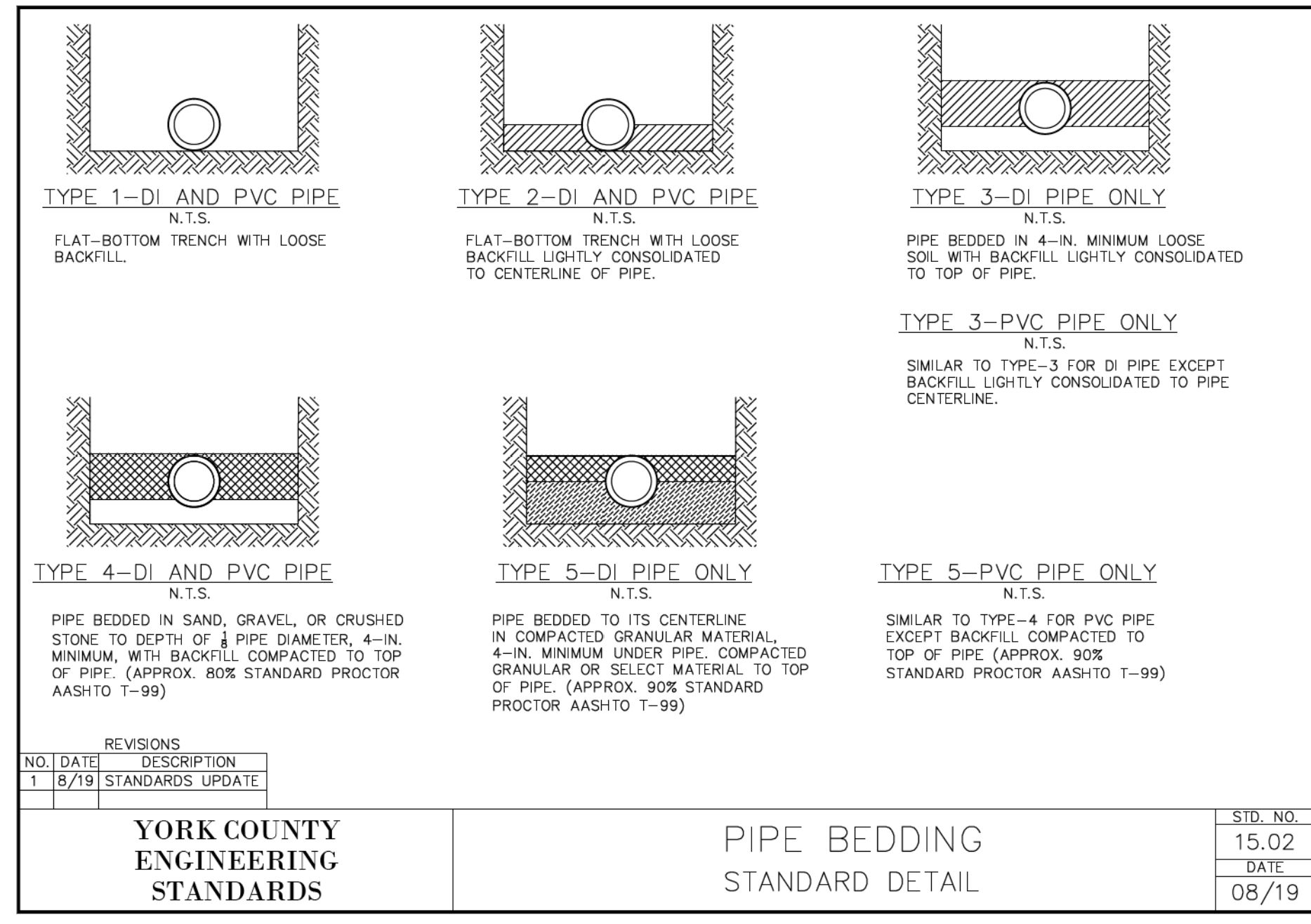
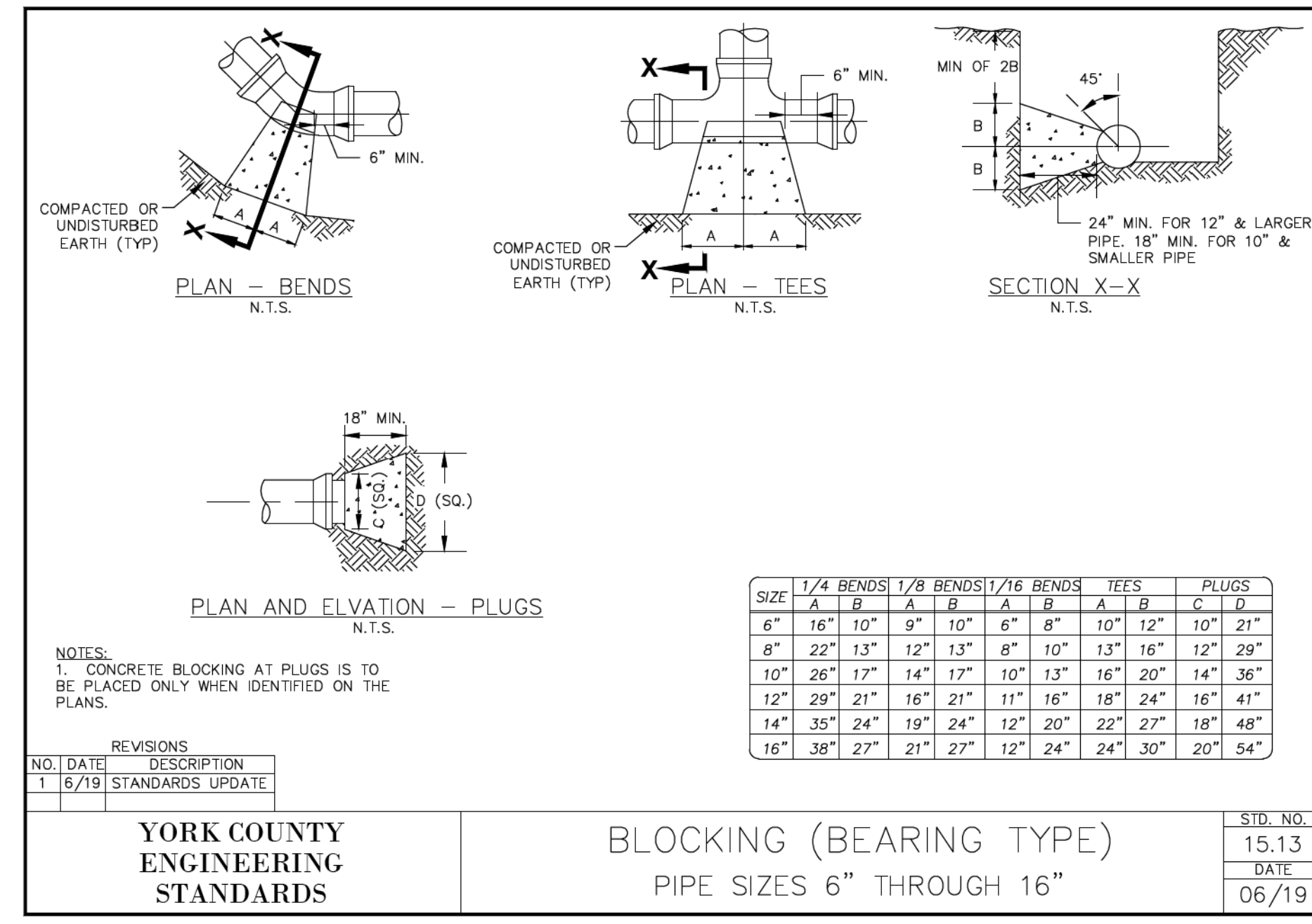
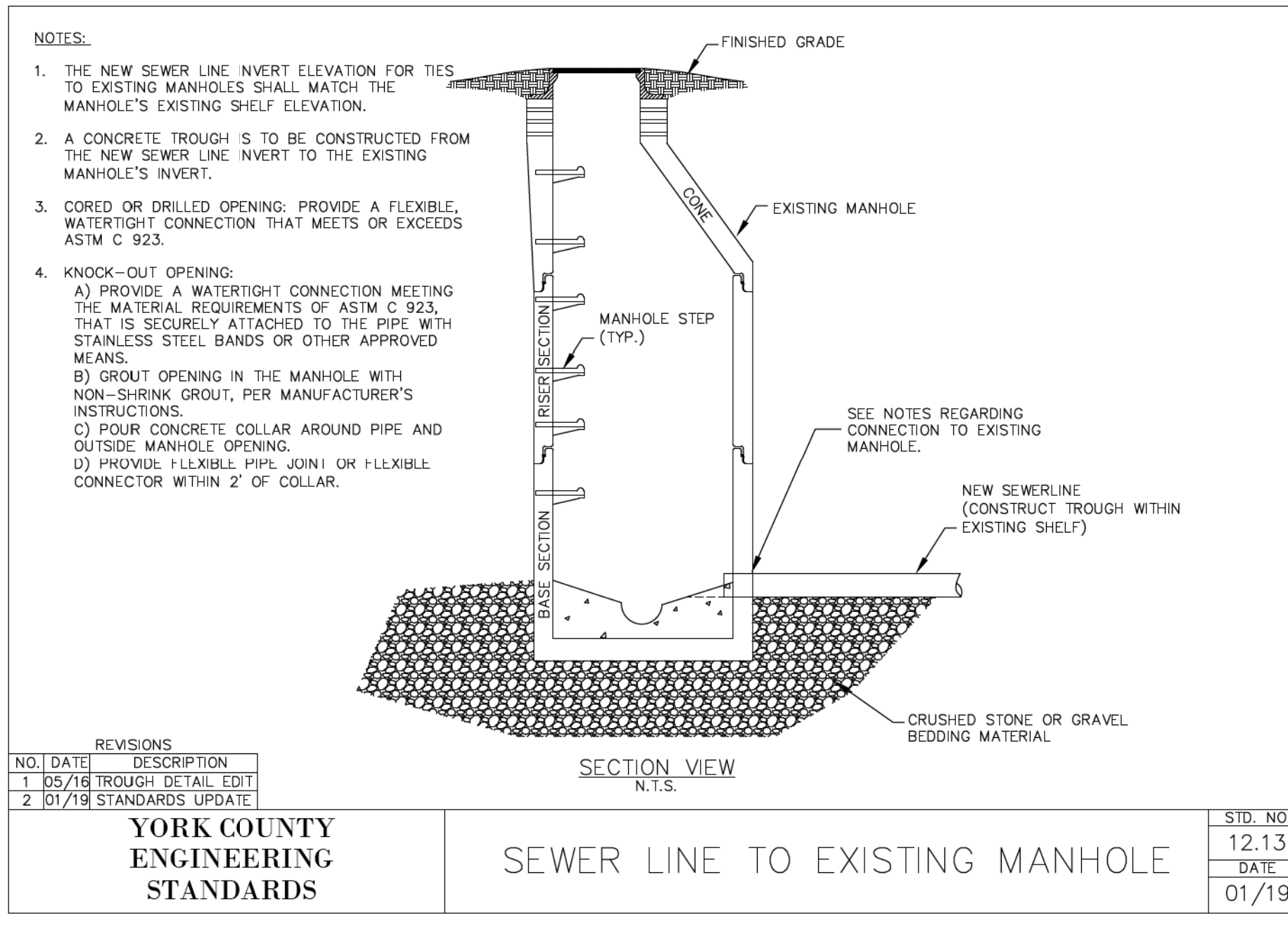
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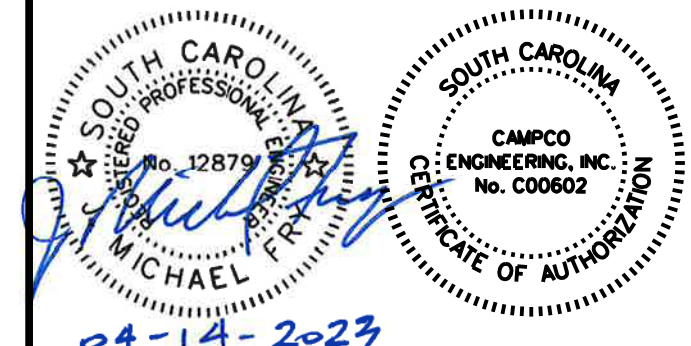
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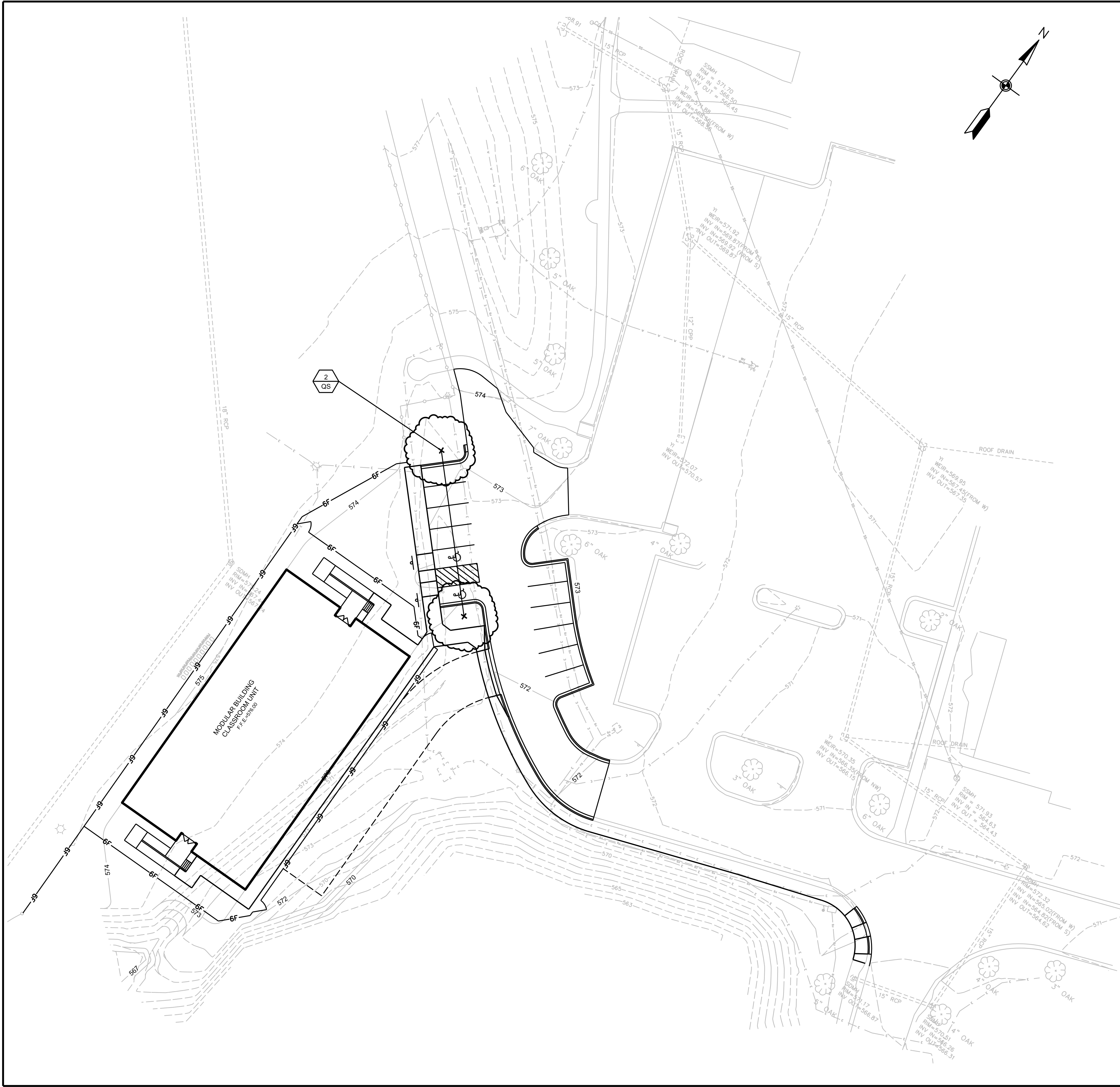
WATER & SANITARY SEWER DETAILS



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Watering Standard Notes

- A. Establishment Watering Period
- 1st 4 weeks - 3 waterings per week
 - 2nd 4 weeks - 2 waterings per week
 - Until establishment - 1 watering per week
2. Water Applied Per Plant Per Watering During Establishment Period
- 1 Gallon Plants - 2 Gallons Water
 - 3 Gallon Plants - 5 Gallons Water
 - 7 Gallon Plants - 8 Gallons Water
 - B&B Trees - 20 Gallons Water

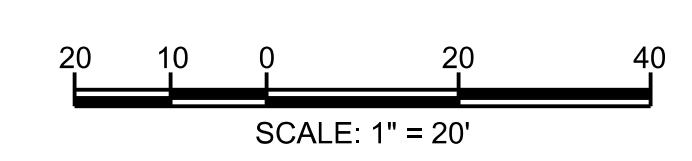
Soil Amendment Standard Notes

- A. All proposed plant material shall include an imported soil amendment mixture. It shall be placed in the planting hole of each proposed plant, and shall be tilled with the site soil at a ratio of 1/3 imported soil amendment mixture and 2/3 site soil.
- B. The imported soil amendment mixture shall contain:
1. Balance textured soil. Clay content shall not exceed forty-percent (40%).
 2. pH value between 5.5-7.0
 3. Organic matter percent between 2-5% dry weight.
- C. The imported soil amendment mixture shall not contain any soil clods larger than two-inches (2") in diameter and be free and clear of rocks over 1/2-inch in diameter, and free of concrete, trash, weeds and seeds of weedy species, petroleum products, sticks, roots, and toxic chemicals or other detrimental material and substances conducive to soil plant and health. The soil shall also be free and clear of found soil-borne diseases.

LANDSCAPE NOTES:

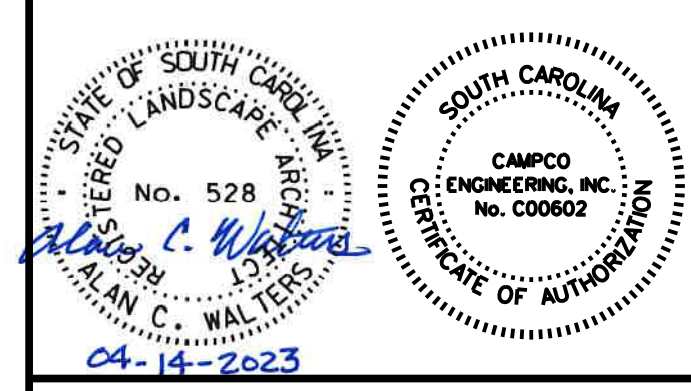
1. REFER TO SHEET L1.1 DETAIL 1 FOR TOTAL PLANT LIST.
2. REFER TO SHEET L1.1 DETAIL 2 FOR LANDSCAPE GENERAL NOTES.
3. REFER TO SHEET L1.1 FOR LANDSCAPE PLANTING DETAILS.

LEGEND



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LANDSCAPE PLAN



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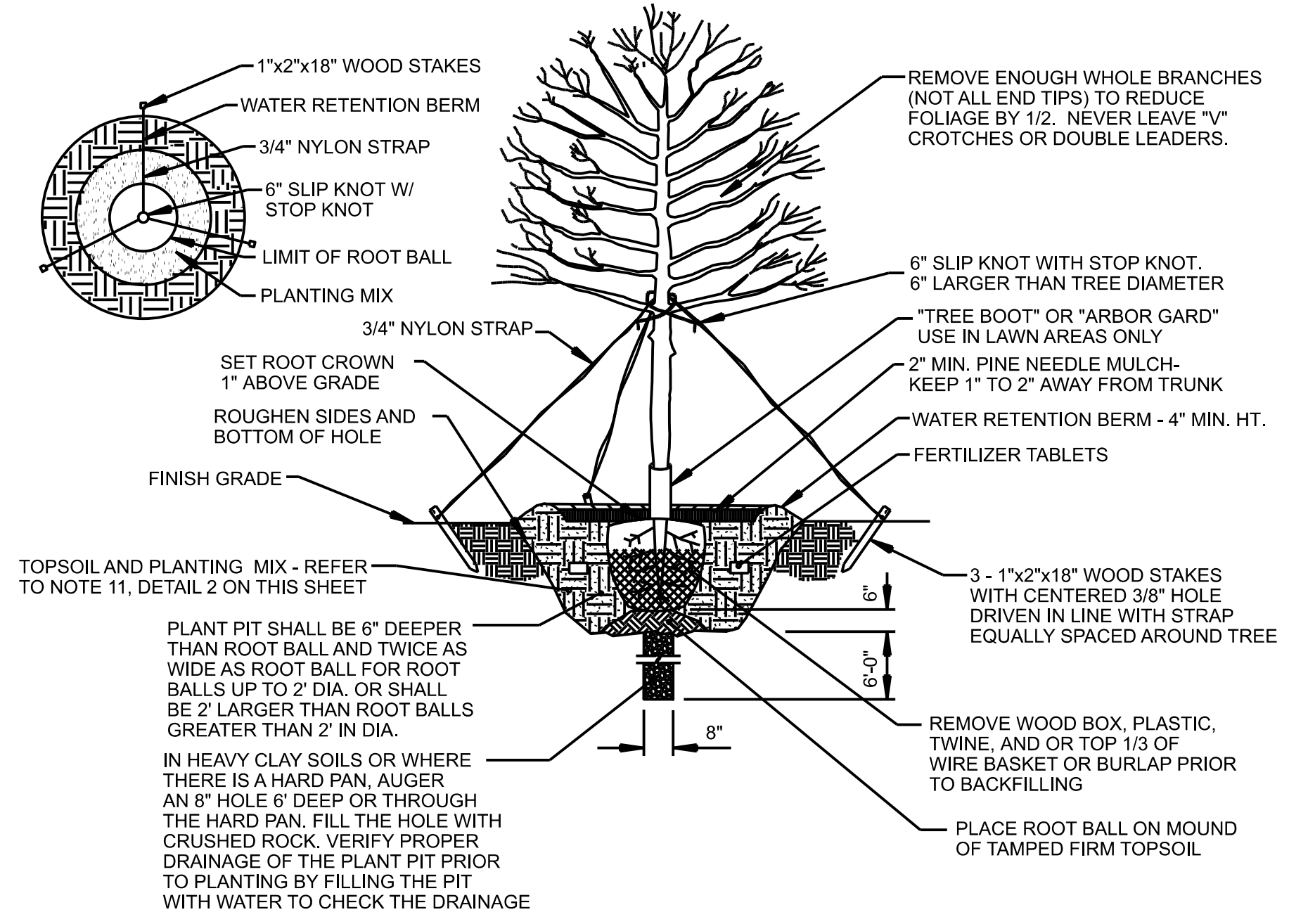
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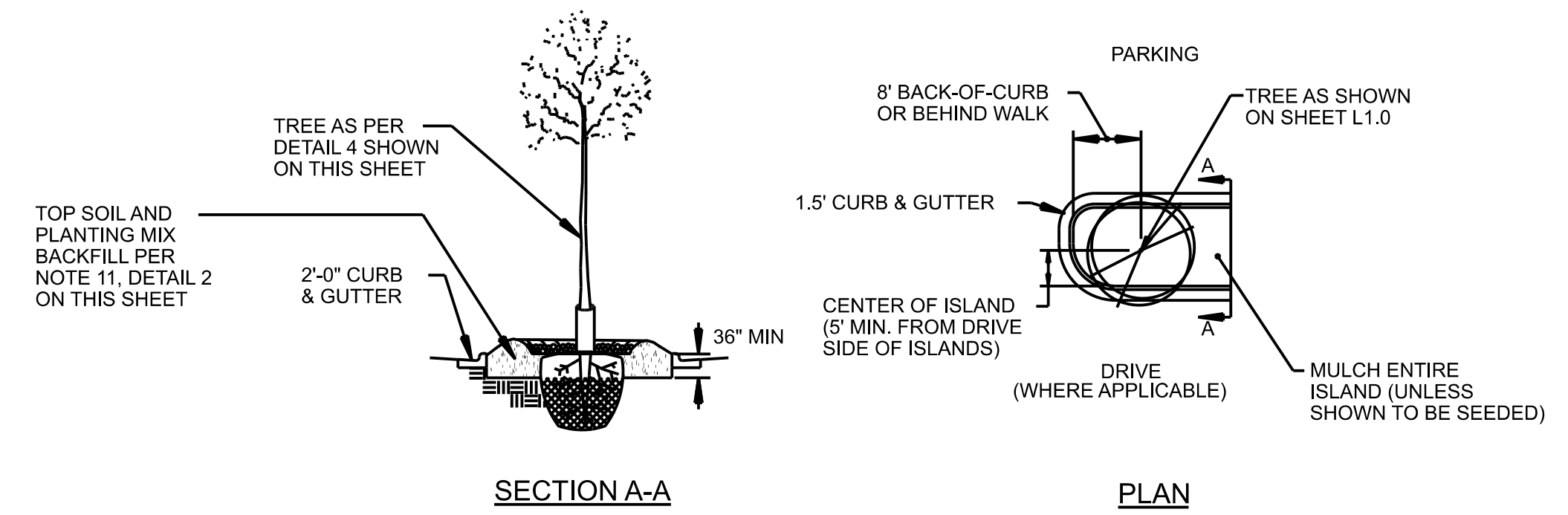
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4
L1.1 NTS
TREE PLANTING AND STAKING



NOTES:
1. REMOVE ALL CONSTRUCTION DEBRIS AND UNCOMPACTED SOIL BASE TO A DEPTH OF 24" BELOW TOP OF CURB.
2. CROWN ISLAND TOPSOIL AND PLANTING MIX BACKFILL TO DRAIN OVER CURB.

3
L1.1 NTS
TYPICAL ISLAND TREE PLANTING

GENERAL NOTES

- ALL PLANT MATERIALS SHALL BE DENSE, UNIFORM IN SIZE AND FORM IN ACCORDANCE WITH EACH SPECIES, AND FREE FROM DISEASE AND INSECTS. PLANT SELECTIONS SHALL NOT INCLUDE LOOSE OPEN PLANTS OR OTHER "NATIVE" MATERIAL GATHERED FROM WOOLAND CONDITIONS. ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM STANDARDS IN THE AMERICAN STANDARDS FOR NURSERY STOCK BY THE AMERICAN ASSOCIATION OF NURSEYMEN, INC., WASHINGTON, D.C. (LATEST EDITION).
- ALL TREES MUST HAVE A MINIMUM CALIPER AS LISTED IN THE PLANT SCHEDULE AND AS MEASURED SIX (6) INCHES FROM THE GROUND AT INSTALLATION.
- ALL PLANT MATERIALS ARE TO BE GUARANTEED BY THE LANDSCAPE CONTRACTOR TO BE ALIVE AND IN GOOD HEALTHY GROWING CONDITION FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. ANY DEAD OR DYING PLANTS ARE TO BE REPLACED AT NO COST TO THE OWNER.
- ALL PLANTS SHALL BE INSTALLED IN A FASHION THAT INSURES THE AVAILABILITY OF SUFFICIENT SOIL AND WATER TO SUSTAIN HEALTHY GROWTH. ALL TREES SHALL BE PROPERLY GUYED OR STAKED, AND PLANTED IN A MANNER WHICH IS NOT INTRUSIVE TO UTILITIES AND/OR PAVEMENT.
- LANDSCAPE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO PLANT INSTALLATION. CONTRACTOR SHALL REPAIR DAMAGES TO ALL ADJACENT SURFACES CREATED BY LANDSCAPE OPERATIONS.
- ALL PLANTS SHALL BE FERTILIZED WITH A SLOW RELEASE FERTILIZER (MAG-AMP OR AGRIFORM PLANTING TABLETS) AT THE MANUFACTURER'S RECOMMENDED RATES. TABLETS TO BE INCORPORATED INTO THE SOIL MIXTURE AT TIME OF INSTALLATION.
- REMOVE PAPER, PLASTIC, OR METAL CONTAINER FROM AROUND SHRUB ROOTS PRIOR TO PLANTING. ALL STRAPPING, AND TOP 1/3 OF WIRE BASKET AND/OR BURLAP MUST BE CUT AWAY AND REMOVED FROM TREE ROOT BALL PRIOR TO BACKFILLING PLANTING PIT.
- ALL BALLED AND BURLAPPED (B&B) PLANTS SHALL BE PRUNED, REMOVING ENOUGH WHOLE BRANCHES (NOT ALL END TIPS) TO REDUCE FOLIAGE BY 1/4. PRUNED PLANTS SHALL CONFORM TO STANDARDS SHOWN IN NOTE #1 AND PLANTING DETAILS.
- LOCATION FOR PROPOSED PLANT BED EDGES, TREES, AND SHRUBS MAY BE ESTABLISHED BY USING SCALED DIMENSIONS TAKEN FROM WALKS, DRIVES, CURBS, BUILDINGS, ETC., AS REFERENCES, UNLESS OTHERWISE DIMENSIONED ON PLAN OR DETAILS, OR DOCUMENTED IN THE PLANT LIST.
- MULCH ALL AREAS UNDER AND AROUND ALL PLANTS AND ALL OTHER AREAS INDICATED ON PLAN AND DETAILS WITH A MINIMUM 2" LAYER OF CLEAN PINE STRAW (NEEDLES) MULCH WITHIN 2 DAYS AFTER PLANTS ARE INSTALLED.
- TREE AND SHRUB BACKFILLING SOIL MIX SHALL CONSIST OF 3 PARTS TOPSOIL (PROVIDED BY CONTRACTOR), 3/8" PART PEAT MOSS, 3/4" PART MANURE OR BONE MEAL, AND 1 LB. LIME PER CUBIC FOOT.
- LANDSCAPE CONTRACTOR SHALL SUBMIT WRITTEN INSTRUCTIONS FOR WATERING FREQUENCY INCLUDING AMOUNTS, FERTILIZATION, PRUNING, AND SPRAYING TO OWNER AFTER PROJECT IS COMPLETED. THE CONTRACTOR SHALL PERIODICALLY INSPECT THE PROJECT AND NOTIFY THE OWNER IN WRITING IF WATERING TECHNIQUES OR MAINTENANCE PROCEDURES ARE INSUFFICIENT DURING THE FIRST YEAR'S GROWTH. CONTRACTOR SHALL WATER PLANTS THOROUGHLY WHEN PLANTED AND AS REQUIRED UNTIL FINAL ACCEPTANCE OF THE PROJECT.

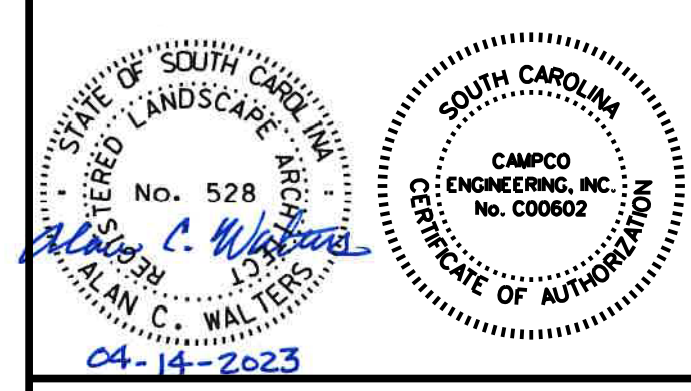
2
L1.1
GENERAL NOTES

REVISIONS		
NO.	DATE	DESCRIPTION

LANDSCAPE DETAILS

KEY	QTY.	BOTANICAL NAME	COMMON NAME	SPR.	HT.	CAL.	COND.	COMMENTS
TREES								
QS	2	Quercus shumardii	SHUMARD RED OAK		10'-12'	2"	B & B	STRAIGHT LEADER, WELL BRANCHED
GROUND COVERS								
LAWN		Festuca arundinacea 'Rebel II'	REBEL II FESCUE					SEED ALL DISTURBED AREAS - RATE: AS IN DET. 3 ON CS.2
MISCELLANEOUS								
			NATURAL- PINE NEEDLES					SPREAD @ RATE OF 1 BALE/40 SF ON PLANT BEDS & 2" THICK ON INDIVIDUAL TREES & SHRUBS

1
L1.1
PLANT LIST



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L1.1

ABBREVIATIONS:

AB	ANCHOR BOLT
ADJ	ADJACENT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ALT	ALTERNATE
APRD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECT
B/	BOTTOM OF
BLD	BUILDING
BEAM	BEAM
BOT	BOTTOM
BRDG	BRIDGING
BRG	BRACING
BLK	BLOCK
BTWN	BETWEEN
CANT	CANTILEVER
C/C	CENTER TO CENTER
CHAMF	CHAMFER
CIRC	CIRCULAR
CJR	CONTROL JOINT
CLR	CLEAR
CMU	CONCRETE MASONRY UNITS
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CTRD	CENTERED
D	DEPTH
DBE	DECK BEARING ELEVATION
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DLG	DEAD LOAD
DWS	DRAWINGS
E	EAST
EA	EACH
EB	EXPANSION BOLT
EJ	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATION
ELEV	ELEVATOR
EMBED	EMBEDMENT
ENGR	ENGINEER
EDS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ES	EACH SIDE
EW	EACH WAY
EXP	EXPANSION
EXIST	EXISTING
EXT	EXTERIOR
FC	FILLED CELL
FF	FINISHED FLOOR
FIN	FINISH
FLR	FLOOR
FDN	FOUNDATION
FRMG	FRAMING
FT	FEET
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
HGD	HOT DIP GALVANIZED
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSB	HIGH STRENGTH BOLT
HT	HEIGHT
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH
INCL	INCLUDE, ING
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
LB	POUND
LG	LONG
LL	LIVE LOAD
LLBB	LONG LEG BACK TO BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LSL	LONG SLOTTED HOLES
LT	LIGHT
L'TWT	LIGHTWEIGHT
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MASONRY JOINT
MO	MASONRY OPENING
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
O/O	OUT TO OUT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OW	OPEN WEB
PAF	POWDER ACTUATED FASTENER
PL	PLATE
PLF	POUNDS PER LINEAL FOOT
PROJ	PROJECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
RAD	RADIUS
REF	REFERENCE
REINF	REINFORCEMENT
RET	RETURN
REV	REVISION
RP	RADIUS POINT
RT	RIGHT
RTU	ROOF TOP UNIT
S	SOUTH
SA	SLEEVE ANCHOR
SB	SLAB BOLSTER
SCHED	SCHEDULE
SECT	SECTION
SF	STEP FOOTING
SM	SIMILAR
SPEC	SPECIFICATIONS
SP	SPACINGS
SQ	SQUARE
SSL	SHORT SLOTTED HOLES
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENERS
STL	STEEL
SYMM	SYMMETRICAL
T/	TOP OF
TB	TIE BEAM
TC	TIE COLUMN
TCX	TOP CHORD EXTENSION
T&B	TOP AND BOTTOM
TEMP	TEMPORARY
TRAN	TRANSVERSE
TS	TUBE STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WEST
WI	WITH
W/O	WITHOUT
WP	WORK POINT
WT	WEIGHT
WWM	WELDED WIRE MESH

GENERAL NOTES

- STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE ENTIRE SET OF PROJECT DRAWINGS, PROJECT MANUAL, AND ALL SHOP DRAWING SUBMITTALS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS, CLEARANCES AND ALL OTHER COORDINATION ISSUES WITH OTHER TRADES.
- IN CASE OF CONFLICT BETWEEN VARIOUS STRUCTURAL DRAWINGS, STRUCTURAL PLANS, OR STRUCTURAL DETAILS THE MORE STRINGENT SHALL GOVERN. THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR THE MORE COSTLY CONDITION.
- IN CASE OF CONFLICT BETWEEN DRAWINGS, DRAWING NOTES, AND SPECIFICATIONS THE MORE STRINGENT SHALL GOVERN. THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR THE MORE COSTLY CONDITION.
- WORK NOT INDICATED ON THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
- ALL NOTES, DETAILS AND SECTIONS ARE INTENDED TO BE TYPICAL FOR THE GENERAL CONDITIONS INDICATED OR REFERENCED. ALL NOTES, DETAILS AND SECTIONS SHALL APPLY TO ANY SIMILAR SITUATION THROUGHOUT THE ENTIRE PROJECT UNLESS A SEPARATE NOTE, DETAIL OR SECTION IS PROVIDED.
- REVIEW ALL PROJECT DOCUMENTS PRIOR TO FABRICATION AND START OF CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH WORK.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING AND IN PLACE WORK OR UTILITIES DURING CONSTRUCTION.
- COORDINATE STRUCTURAL DRAWINGS WITH OTHER CONTRACT DRAWINGS, SPECIFICATIONS, OR SHOP DRAWINGS WHICH MAY AFFECT THE STRUCTURAL WORK.
- USE OF REPRODUCED CONTRACT DRAWINGS IN PART OR WHOLE FOR THE PURPOSE OF SHOP DRAWING PREPARATION SHALL NOT RELIEVE THE CONTRACTOR OR SUBCONTRACTOR FROM THE REQUIREMENT TO ACCURATELY LAYOUT, COORDINATE, DETAIL, FABRICATE AND INSTALL A COMPLETE STRUCTURE.
- ALL SUBMITTALS SHALL BE REVIEWED BY THE SUBCONTRACTOR AND CONTRACTOR FOR CONFORMANCE TO THE CONTRACT DOCUMENTS, FOR COMPLETENESS, AND TO RESPOND TO CONTRACTOR COORDINATION RELATED QUESTIONS PRIOR TO SUBMITTING FOR APPROVAL. ALL SHEETS SHALL BE STAMPED AND INITIALED BY THE CONTRACTOR INDICATING SUCH A REVIEW HAS BEEN COMPLETED PRIOR TO ISSUING SUBMITTAL FOR APPROVAL.
- CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL.
- ALL ELEVATIONS INDICATED IN STRUCTURAL DRAWINGS ARE IN REFERENCE TO A GROUND FLOOR FINISHED SLAB ELEVATION OF 0'-0" UNLESS NOTED OTHERWISE. SEE CIVIL FOR GROUND FLOOR FINISHED SLAB ELEVATION.

CAST-IN-PLACE CONCRETE

- ALL CAST-IN-PLACE CONCRETE SHALL CONFORM TO SPECIFICATION SECTION 033000-"CAST-IN-PLACE CONCRETE"
- LAP ALL WWM/WWR ONE MESH SPACING PLUS A 2" OFFSET AND SECURELY ANCHOR
- ALL CONTINUOUS REINFORCEMENT SHALL BE LAPRED PIER SCHEDULES AND DETAILS
- REINFORCEMENT SHALL BE SECURELY ANCHORED IN POSITION. THE CONTRACTOR SHALL PROVIDE ADDITIONAL BARS, STANDEES, OR STIRRUPS TO ANCHOR BARS IN THE PROPER POSITION
- THE DESIGN AND CONSTRUCTION OF FORMS AND SHORES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- QUALIFIED WORKMEN SHALL CONSTANTLY OBSERVE AND ADJUST FORMS AND SHORES AS REQUIRED DURING CONCRETE PLACEMENT.
- ALL SHORINGS SHALL REMAIN IN PLACE UNTIL THE SUPPORTED CONCRETE HAS ATTAINED 75% OF THE REQUIRED 28 DAY COMPRESSIVE STRENGTH.
- CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF ALL SLOTS, PIPE SLEEVES, ANCHOR BOLTS, ETC AS REQUIRED FOR ALL TRADES BEFORE CONCRETE IS POURED. THESE ITEMS SHALL BE INSTALLED AND VERIFIED BY THE CONTRACTOR.
- SEE PLUMBING DRAWINGS FOR FLOOR DRAINS
- FOR CONCRETE PADS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS
- FOR EXTERIOR SIDEWALKS AND CURBS SEE CIVIL DRAWINGS
- FOR WATERPROOFING REQUIREMENTS SEE ARCHITECTURAL DRAWINGS
- DOWELS SHALL MATCH WALL REINFORCING UNLESS NOTED OTHERWISE.
- ALL INTERIOR SLABS SHALL HAVE A STEEL TROWELED FINISH UNLESS NOTED OTHERWISE. COORDINATE SLAB FINISH FOR AREAS WITH SPECIALTY FLOOR COVERINGS WITH SPECIFICATIONS AND FINISH SCHEDULE
- ALL REINFORCING STEEL SHALL BE DETAILED FABRICATED AND INSTALLED IN ACCORDANCE WITH ACI 318-14 AND ACI SP-066 2004.
- PROVIDE THE FOLLOWING CONCRETE CLEAR COVER OVER REINFORCING (UNO):
 - FOOTINGS, GRADE BEAMS, TIE BEAMS AND PILE CAPS: 3"
 - INTERIOR BEAMS AND COLUMNS: 1"
 - EXTERIOR BEAMS AND COLUMNS: 2"
 - PEDESTALS: 2"
 - STRUCTURAL SLABS ON GRADE:
 - 3" BOTTOM
 - 3/4" TOP @ INTERIOR SPACES
 - 1 1/2" TOP AT EXTERIOR SPACES
 - INTERIOR FORMED ELEVATED SLABS: 3/4" BOTTOM, 3/4" TOP
 - EXTERIOR FORMED ELEVATED SLABS: 1 1/2" BOTTOM, 1 1/2" TOP
 - SLABS ON DECK: WWM CENTERED IN COVER OVER DECK FLUTES
 - SLABS ON GRADE: WWM IN TOP 1/3, REINFORCING STEEL CENTERED
 - CONCRETE WALLS: 1 3/4" UNO
- REINFORCEMENT SHALL NOT BE CUT TO ACCOMMODATE THE INSTALLATION OF ANCHORS EMBEDS OR OTHER ITEMS.
- AT CHANGES OF DIRECTION IN CONTINUOUS CONCRETE ELEMENTS PROVIDE CORNER BARS OF SAME SIZE AND SPACING OF HORIZONTAL REINFORCING.
- PLACE CONCRETE PER ACI 318-14. USE INTERNAL MECHANICAL VIBRATION FOR ALL CONCRETE. LIMIT MAXIMUM FREE FALL HEIGHT TO 6" AND TAKE PRECAUTIONS TO AVOID CONCRETE SEGREGATION.
- FIELD TESTING AND INSPECTION OF CONCRETE MATERIALS AND CONCRETE INSTALLATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

FOUNDATIONS

- SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH CIVIL SPECIFICATIONS AS APPLICABLE
- PROVIDE ALL MEASURES NECESSARY FOR THE INSTALLATION OF FOUNDATIONS INCLUDING BUT NOT LIMITED TO DEWATERING AND SHORING.
- CENTER ALL FOUNDATIONS BENEATH THEIR RESPECTIVE WALL OR COLUMN UNLESS NOTED OTHERWISE.
- HORIZONTAL JOINTS ARE NOT PERMITTED IN FOUNDATIONS
- SEE TYPICAL DETAILS FOR CONSTRUCTION OF VERTICAL CONSTRUCTION JOINTS AND LIMITATIONS ON LOCATIONS
- DO NOT INSTALL PLUMBING OR PLUMBING SLEEVES IN OR THROUGH FOUNDATIONS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS, OR WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.
- PLUMBING RUNS BELOW GRADE SHALL NOT RUN BENEATH AND PARALLEL TO CONTINUOUS FOOTINGS
- ALL REINFORCING STEEL SHALL BE SUPPORTED ON CHAIRS OR BOLSTERS TO PROPER ELEVATION AND SHALL BE SECURELY ANCHORED
- FOUNDATION SIZES SHOWN ASSUME FOOTINGS ARE CONSTRUCTED WITH SIDE FORMS
- EARTH FORMED FOUNDATIONS ARE PERMITTED IF SUBGRADE IS STABLE ENOUGH TO HOLD THE FACE OF THE EXCAVATION. ALL FOUNDATION SIZES FOR EARTH FORMED FOUNDATIONS SHALL BE INCREASED 1" IN ALL DIRECTIONS
- ALL FOUNDATION EXCAVATIONS SHALL BE DEWATERED PRIOR TO PLACING CONCRETE
- BACKFILL SHALL NOT BE PLACED AGAINST FOUNDATION WALLS UNTIL CONCRETE OR GROUT HAS ACHIEVED 75% OF THE REQUIRED STRENGTH.
- FIELD TESTING AND INSPECTION OF FOUNDATIONS, SUBGRADE MATERIALS AND SUBGRADE PREPARATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

PRESSURE GROUTED MICROPILES

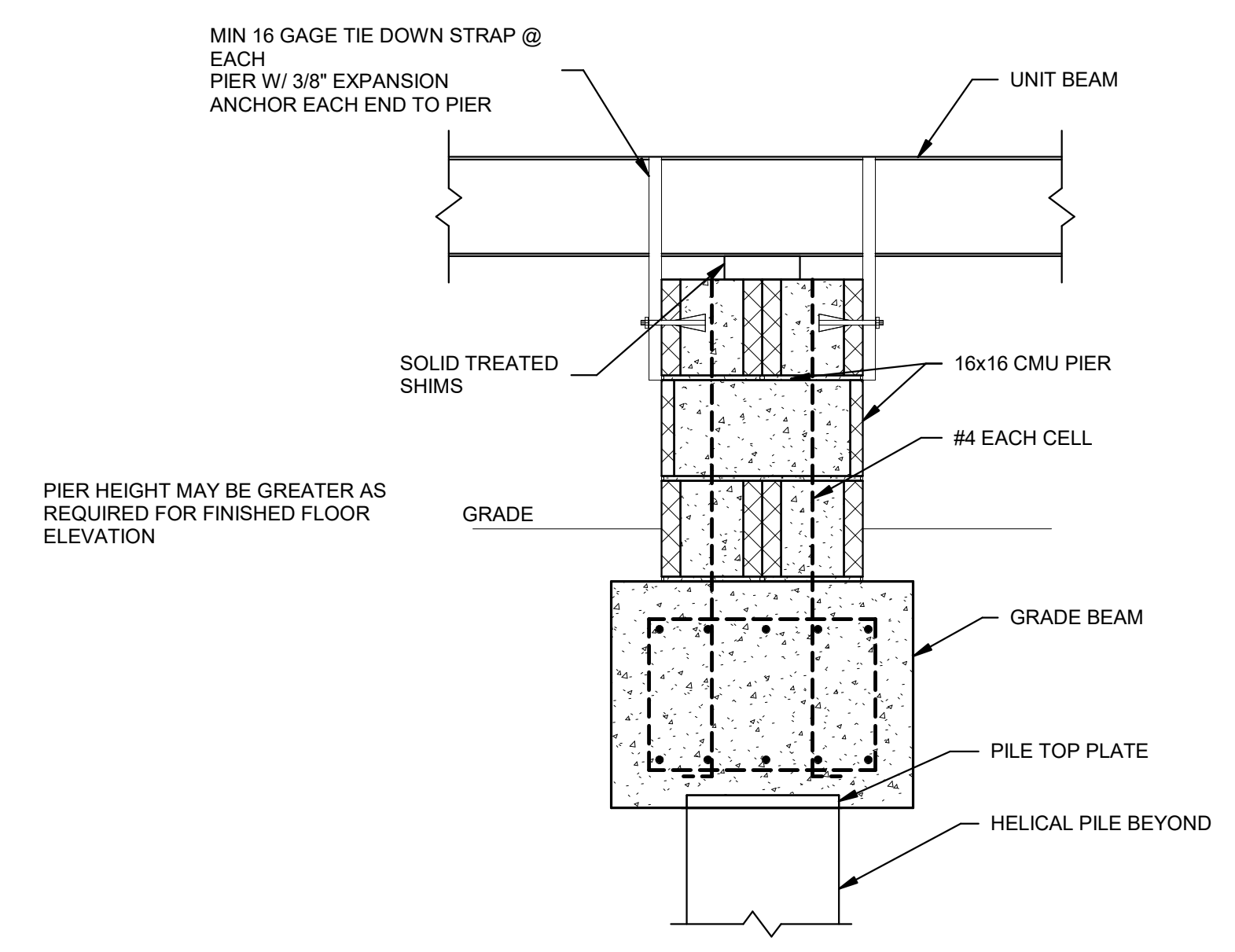
- ALL PRESSURE GROUTED MICROPILES SHALL CONFORM TO SPECIFICATION SECTION 316612-"GROUTED HELICAL STEEL PILES"
- COORDINATE WITH SPECIFICATIONS AND DRAWINGS FOR TEST PILE PROGRAM REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL TEST PILES AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THE TEST PILE PROGRAM. THE OWNER'S INSPECTOR WILL OBSERVE, RECORD AND REPORT ON THE TEST PILE PROGRAM.
- ALL TEST PILES AND ASSOCIATED ANCHOR OR REACTION PILES SHALL BE ASSUMED SACRIFICIAL AND SHALL NOT BE USED AS PRODUCTION PILES
- AN AS-BUILT SURVEY OF ALL PILES, CONDUCTED BY THE GENERAL CONTRACTOR SHALL BE PROVIDED TO THE ENGINEER OF RECORD PRIOR TO COMMENCING FOUNDATION WORK. THE SURVEY SHALL SHOW THE LOCATION OF ALL PILES WITH DEVIATIONS FROM THE THEORETICAL PILE LOCATION AND PILE BUTT ELEVATION. ALL PILE LOCATIONS AND CUTOFF ELEVATIONS THAT ARE NOT WITHIN THE TOLERANCES OUTLINED IN THE SPECIFICATIONS SHALL BE SPECIFICALLY NOTED. PILE CONTRACTOR SHOULD NOT DEMOBILIZE UNTIL THE AS-BUILT SURVEY HAS BEEN REVIEWED AND APPROVED AND/OR FOUNDATION REVISIONS, INCLUDING THE POSSIBLE ADDITION OF SUPPLEMENTAL PILES HAVE BEEN MADE TO ACCOUNT FOR ANY OUT OF TOLERANCE PILES
- FIELD TESTING AND INSPECTION OF PRESSURE GROUTED MICROPILE MATERIALS AND PRESSURE GROUTED MICROPILE INSTALLATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

STRUCTURAL DESIGN CRITERIA

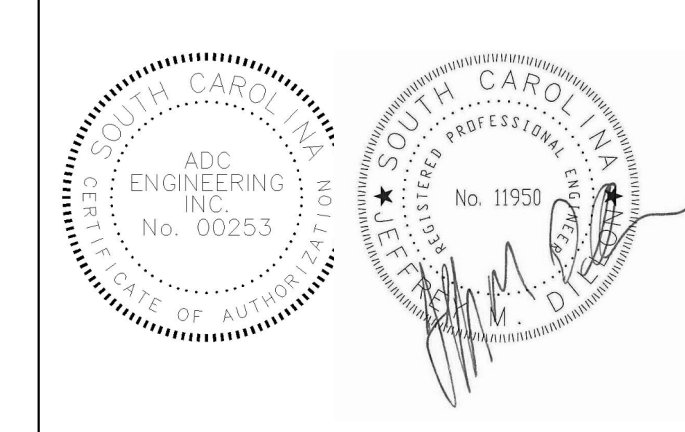
DESIGN BASED ON THE FOLLOWING CODES:

- INTERNATIONAL BUILDING CODE (IBC) 2021
- AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) 7-16 - MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES

- FOUNDATION DESIGN VALUES:
ALLOWABLE BEARING CAPACITY N/A, BUILDING ON PILES
- GRAVITY LOAD DESIGN VALUES:
FLOOR LIVE LOADS: (1ST FLOOR)
CORRIDORS 100-PSF
LOBBY 100-PSF
RESTROOMS 100-PSF
OFFICES 50-PSF
CLASSROOMS 40-PSF
ROOF LIVE LOADS:
LOW-SLOPED ROOF 20-PSF
SLOPING ROOF 20-PSF
GROUND SNOW LOADS:
SNOW 10-PSF
DEAD LOADS:
ACTUAL MATERIAL WEIGHTS PER ASCE 7-16, SEE ARCHITECTURAL DRAWINGS FOR ROOF, WALL, AND FLOOR CONSTRUCTION
- SEISMIC DESIGN VALUES:
Ss = 0.218
S1 = 0.086
Sds = 0.129g
Sd1 = 0.086g
SITE CLASS: "C" (PER SOILS REPORT)
BUILDING CATEGORY: "III"
IMPORTANCE FACTOR: Ie = 1.25
SEISMIC DESIGN CATEGORY: "C"
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE (ELF)
SEISMIC FORCE RESISTING SYSTEM:
INTERMEDIATE REINFORCED MASONRY SHEAR PIERS
RESPONSE MODIFICATION FACTOR: R = 3.5
DEFLECTION AMPLIFICATION FACTOR: Cd = 2.25
SYSTEM OVERSTRENGTH FACTOR: Omega = 2.5
ALLOWABLE INTERSTORY DRIFT: 0.02 Hsx
WIND LOAD DESIGN VALUES:
V = 119 mph (3-sec gust)
BUILDING CATEGORY: "III"
IMPORTANCE FACTOR: Ie = 1.15
EXPOSURE CATEGORY: "C"
ENCLOSURE CLASSIFICATION: ENCLOSED
DIRECTIONAL FACTOR: Kd = 0.85
TOPOGRAPHIC FACTOR: Kzt = 1.0
VELOCITY EXPOSURE COEFFICIENT: Kz = 0.97
VELOCITY PRESSURE: q = 20.1 psf
INTERNAL PRESSURE COEFFICIENT: GCp1 = +/- 0.18
ALLOWABLE INTERSTORY DRIFT: 0.025 Hsx



1 CMU PIER
1" = 1'-0"



FORT MILL SCHOOL DISTRICT
 NATION FORD ALTERNATIVE SCHOOL
 MODULAR
 FORT MILL, SC

NO.	DATE	DESCRIPTION	BY

CD SET 05.11.2023
 PRINCIPAL IN CHARGE:
 PROJECT ARCHITECT:
 DRAWN BY: KMD

SHEET TITLE:
GENERAL NOTES AND DETAILS

SHEET NO. PROJ. NO.
 23081

S100

FORT MILL SCHOOL DISTRICT
NATION FORD ALTERNATIVE SCHOOL
MODULAR
FORT MILL, SC

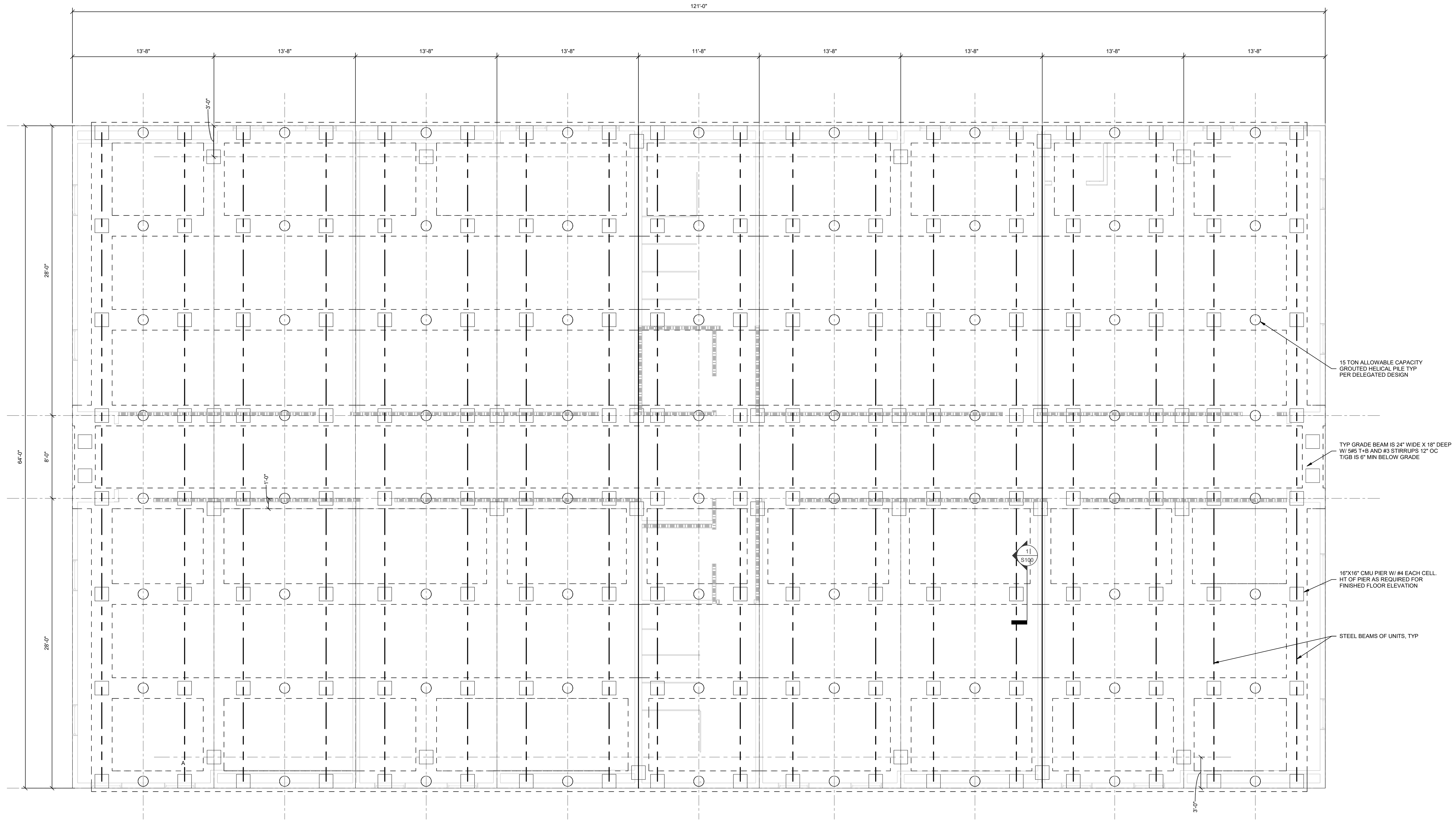
SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY

CD SET
PRINCIPAL IN CHARGE:
PROJECT ARCHITECT:
DRAWN BY: KMD

SHEET TITLE:
FOUNDATION PLAN

SHEET NO. PROJ. NO. 23081

S101



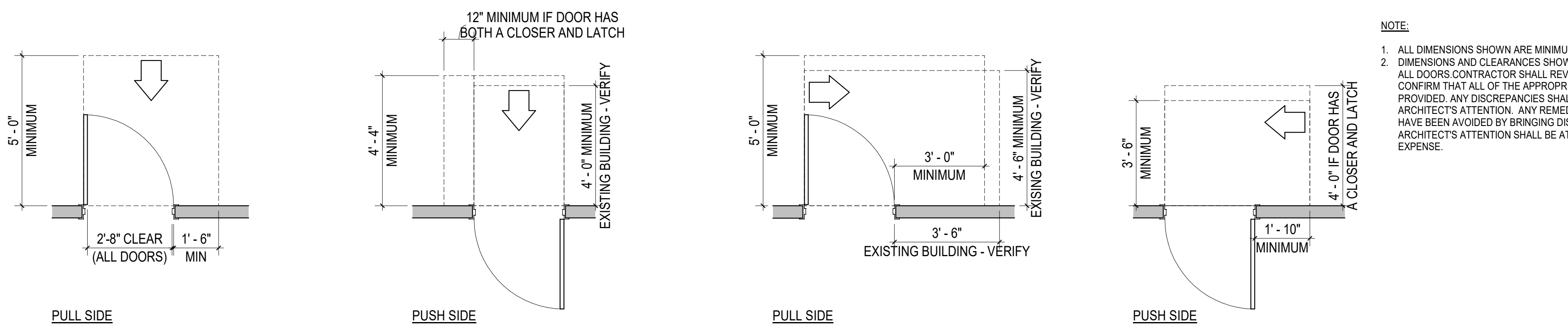
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1 FOUNDATION PLAN
1/4" = 1'-0"

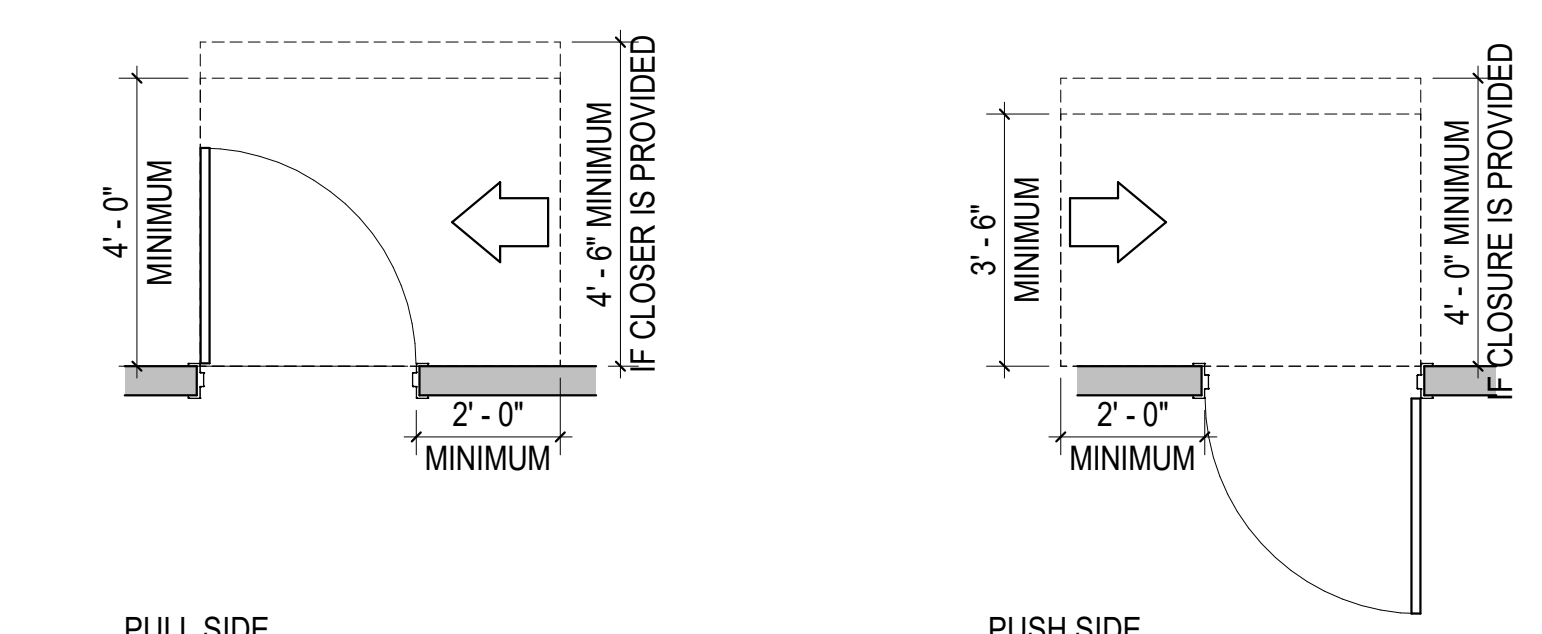
ABBREVIATION NOTES:
 1. ABBREVIATIONS LISTED BELOW APPLY TO THE ARCHITECTURAL DRAWINGS ONLY. REFER TO CONSTRUCTION DOCUMENTS PREPARED BY MPS CONSULTANTS FOR ABBREVIATIONS USED.
 2. REFER TO FINISH SCHEDULE FOR FINISH MATERIAL ABBREVIATIONS NOT SHOWN.

AC	AIR CONDITION	DBL	DOUBLE	GALV	GALVANIZED	OA	OVERALL	T&D	TO BE DETERMINED
AE	ARCHITECT/ENGINEER	DEMT	DEMOLITION/DEMOLISH	GB	GRAB BAR	OC	ON CENTER	T&G	TONGUE AND GROOVE
ABAN	ABANDON	DEPT	DEPARTMENT	GC	GENERAL CONTRACTOR	OD	OUTSIDE DIAMETER	TD	TRENCH DRAIN
ABRSV	ABRASIVE	DI	DRINKING FOUNTAIN	GDR	GUARD RAIL	OF	OVERFLOW	TEMP	TEMPORARY
ACC	ACCESSIBLE	DIA	DIAMETER	GFR	GLASS-FIBER-REINFORCED CONCRETE	OFICI	OWNER FURNISHED/CONTRACTOR INSTALLED	TFA	TO FLOOR ABOVE
ACST INSUL	ACOUSTICAL INSULATION	DIAG	DIAGONAL	GFRG	GLASS-FIBER-REINFORCED GYPSUM	OFD	OVERFLOW DRAIN	TFB	TO FLOOR BELOW
ACST PNL	ACOUSTICAL PANEL	DIM	DIMENSION	GFRP	GLASS-FIBER-REINFORCED PLASTER	OFIOI	OWNER FURNISHED/OWNER INSTALLED	THRU	THROUGH
ADP	AUTOMATIC CONTROL PANEL	DISP	DISPENSER	GFRP	GLASS-FIBER-REINFORCED PLASTIC	OFIS	OUTLET FACE OF STUDS	TLT	TOLLET
ACST	ACOUSTIC	DIST	DISTANCE	GL	GLASSGLAZING	OPNG	OPENING	TJ	TOP OF
ACT	ACOUSTICAL CEILING TILE	DMPP	DAMP/PROOFING	GMP	GUARANTEED MAXIMUM PRICE	OPP	OPPOSITE	TOM	TOP OF MASONRY
AD	AREA DRAIN	DPTN	DEMOUNTABLE PARTITION	GR	GROUT	OPR	OPERABLE	TOP	TOP OF PARAPET
ADJ	ADJACENT OR ADJUSTABLE	DS	DOWNSPOUT	GRAN	GRANITE	TOS	TOP OF SLAB/ TOP OF STEEL	TOTL	TOP OF WALL
AF	ABOVE FINISHED FLOOR	DSP	DRY STANDPIPE	GT	GREASE TRAP	TOW	TOP OF WALL	TP	TOLLET PARTITION
AFG	ABOVE FINISHED GRADE	DSP	DRY STANDPIPE	GYP BD	GYPSUM WALL BOARD	TR	TRANSITION STRIP	TRS (or TR)	TRANSITION STRIP
AFS	ABOVE FINISHED SLAB	DW	DISHWASHER						
ALT	AUTHORITY HAVING JURISDICTION			HB	HOSE BIBB	PAT	PATTERN	UNFN	UNFINISHED
ALU	ALUMINUM	EA	EACH	HC	HOLLOW CORE	PERD	PERFORATED	UNO	UNLESS NOTED OTHERWISE
ALUM	ALUMINUM	EC	EDGE OF CURB	HCP	HANDICAPPED	PERP	PERPENDICULAR		
APPROX	APPROXIMATE	EFS	EXTERIOR FINISH SYSTEM	HCW	HOLLOW CORE WOOD DOOR	PEGBD	PERPENDICULAR		
ARCH	ARCHITECT	EG	EDGE GRAIN	HW	HARDWARE	PJ	PANEL JOINT		
ASB	ASBESTOS	EGB	EXTERIOR GYPSUM WALL BOARD	HWWD	HARDWOOD	PLM	PLASTIC LAMINATE		
ASC	ABOVE SUSPENDED CEILING	EFS	EXTERIOR FINISH SYSTEM	HM	HOLLOW METAL	PLBSG	PLYWOOD		
ASD	AUTOMATIC SPRINKLER DRAIN	EPG	ENTRANCE FLOOR GRILLE	ID	INSIDE DIAMETER/ INSIDE DIMENSION	POL	POLISHED		
ASI	ARCHITECT'S SUPPLEMENTAL INSTRUCTION	EL	EXPANSION JOINT	INSUL	INSULATION	PORC	PORCELAIN		
ASSN	ASSOCIATION	ELEV	ELEVATION	INSUL PNL	INSULATED METAL PANEL	PREFAB	PREFABRICATE		
AVG	AVERAGE	ELAST	ELASTOMERIC	JAN	JANITOR	PREFN	PREFINISH		
		ELEC	ELECTRIC	JT	JOINT	PT	PRESSURE TREATED		
		ELEM	ELEMENTARY	KD	KNOCKED DOWN	PTD	PAINT		
BAT	BATTEN	ELEV	ELEVATION	KPL	KICKPLATE	R	RADIUS		
BD	BOARD	EMER	EMERGENCY	LAM	LAMINATE	RADN	RADIATION		
BD FT	BOARD FEET (FOOT)	EMER SHR	EMERGENCY SHOWER	LAM GL	LAMINATED GLASS	RB	RESILIENT BASE		
BDRY	BOUNDARY	ENAM	ENAMEL	LAV	LAVATORY	RBR	RUBBER		
BF	BOTH FACES	ENCL	ENCLOSURE	LCD	LINEAR CEILING DIFFUSER	RCP	REFLECTED CEILING PLAN		
BFF	BELOW FINISH FLOOR	ENTR	ENTRANCE	LDMU	LIGHTWEIGHT CONCRETE MASONRY UNIT	RD	ROOF DRAIN		
BLDG	BUILDING	EOS	EDGE OF SLAB	LDR	LEADER	REF	REFERENCE		
BLKHD	BULKHEAD	EP	EPOXY PAINT	LGMU	LIGHTWEIGHT CONCRETE MASONRY UNIT	REIN	REINFORCE		
BLKT	BLANKET	EPX	EPOXY	LF	LINEAR FEET (FOOT)	REQD	REQUIRED		
BN	BULLNOSE	EQU	EQUIVALENT	LF	LINEAR FEET (FOOT)	RESIL	RESILIENT		
BSTL	BOTTOM OF STEEL	EQUV	EQUIVALENT	LF	LINEAR FEET (FOOT)	RESP	RESIN PANEL		
BTM	BOTTOM	ESCAL	ESCALATOR	LOS	LINE OF SIGHT	REQD	REQUIRED		
BSMT	BASEMENT	EWH	ELECTRIC WATER HEATER	LOR	LOUVER	RFG	ROOFING		
BTWN	BETWEEN	EWS	EYE WASH STATION	LVR	LOUVER	RH	ROUGH OPENING		
BYP	BY PASS	EXIST	EXISTING	LWC	LIGHTWEIGHT CONCRETE	RLG	RAILING		
		EXT	EXPOSED	MAINT	MAINTENANCE	RM	ROOM		
CAB	CABINET	EXT	EXPOSED	MAX	MAXIMUM	RO	ROUGH OPENING		
CANTIL	CANTILEVER	FA	FIRE ALARM	MED	MEDICAL	RTF	RUBBER TILE FLOOR		
CB	CORNER BEAD	FCO	FLOOR CLEANOUT	MEL	MELAMINE	RTU	ROOF TOP UNIT		
CCTV	CLOSED CIRCUIT TELEVISION	FD	FLOOR DRAIN	MEZ	MEZZANINE	RV	ROOF VENT		
CF	CONTRACTOR FURNISHED	FDC	FIRE DEPARTMENT CONNECTION	MF	MILL FINISH	RVL	REVEAL		
CFCI	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	FDC	FIRE DEPARTMENT CONNECTION	MI	MIDDLE	SB	SPLASH BLOCK		
CFIOI	CONTRACTOR FURNISHED/OWNER INSTALLED	FDC	FIRE DEPARTMENT CONNECTION	MID	MIDDLE	SCHED	SCHEDULE		
CFE	CONTRACTOR FURNISHED EQUIPMENT	FDC	FIRE DEPARTMENT CONNECTION	MIR	MIRROR	SCRN	SCREEN		
CFMF	COLD-FORMED METAL FRAMING	FDC	FIRE DEPARTMENT CONNECTION	MIS	MISCELLANEOUS	SD	SMOKE DETECTOR		
CG	CORNER GUARD	FDC	FIRE DEPARTMENT CONNECTION	MLDG	MOLDING (MOLDING)	SHR	SHOWER		
CH BD	CHALKBOARD	FDC	FIRE DEPARTMENT CONNECTION	MLWK	MILLWORK	SHRD	SHOWER DRAIN		
CIP	CAST-IN-PLACE	FDC	FIRE DEPARTMENT CONNECTION	MOD BIT	MODIFIED BITUMEN	SIM	SIMILAR		
CL	CENTER LINE	FDC	FIRE DEPARTMENT CONNECTION	MOPR	MORTAR	SPK	SPEAKER		
CLD	CLADDING	FDC	FIRE DEPARTMENT CONNECTION	MR	MIRROR	SPKR	SPEAKER		
CLG	CEILING	FDC	FIRE DEPARTMENT CONNECTION	MTL	METAL	SQ FT	SQUARE FOOT		
CLR	CLEAR	FDC	FIRE DEPARTMENT CONNECTION	MW	MICROWAVE	SS	SOLID SURFACE		
CLT	CLEAT	FDC	FIRE DEPARTMENT CONNECTION	MWP	MEMBRANE WATERPROOFING	SST	STAINLESS STEEL		
CMPT	COMPOSITE	FDC	FIRE DEPARTMENT CONNECTION	N/A	NOT APPLICABLE	ST	STAIR(S)		
CMU	CONCRETE MASONRY UNIT	FDC	FIRE DEPARTMENT CONNECTION	NCOMBL	NONCOMBUSTIBLE	STC	SOUND TRANSMISSION CLASS		
CONC	CONCRETE	FDC	FIRE DEPARTMENT CONNECTION	NIC	NOT IN CONTRACT	STOR	STORAGE		
CO	CLEANOUT	FDC	FIRE DEPARTMENT CONNECTION	NLB	NONLOADBEARING	STN	STAIN		
COL	COLUMN	FDC	FIRE DEPARTMENT CONNECTION	NOM	NOMINAL	SUSP CLG	SUSPENDED CEILING		
CONC	CONCRETE	FDC	FIRE DEPARTMENT CONNECTION	NTP	NOTICE TO PROCEED	SYMM	SYMMETRICAL		
COND	CONDITION	FDC	FIRE DEPARTMENT CONNECTION						
CONP	CONFERENCE	FDC	FIRE DEPARTMENT CONNECTION						
COORD	COORDINATE	FDC	FIRE DEPARTMENT CONNECTION						
CORR	CORRIDOR	FDC	FIRE DEPARTMENT CONNECTION						
CP	CONTROL PANEL	FDC	FIRE DEPARTMENT CONNECTION						
CSB	CONCRETE SPLASH BLOCK	FDC	FIRE DEPARTMENT CONNECTION						

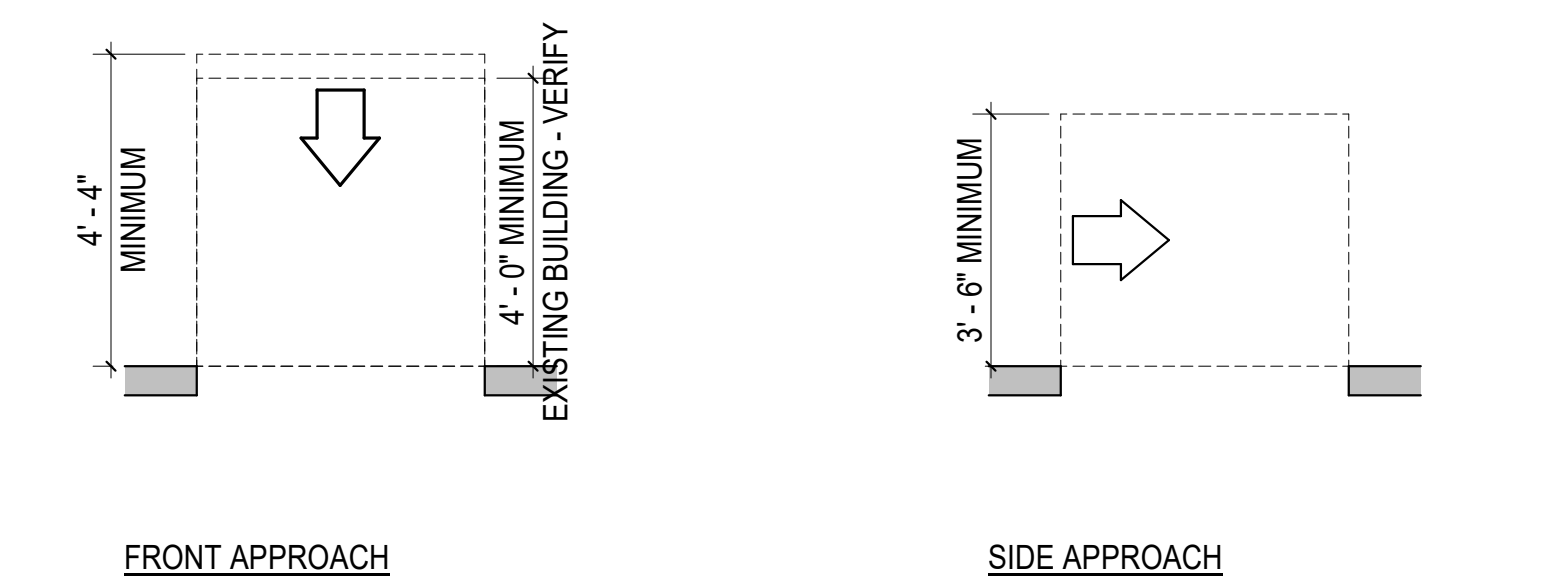
ABBREVIATIONS LIST



FRONT APPROACHES



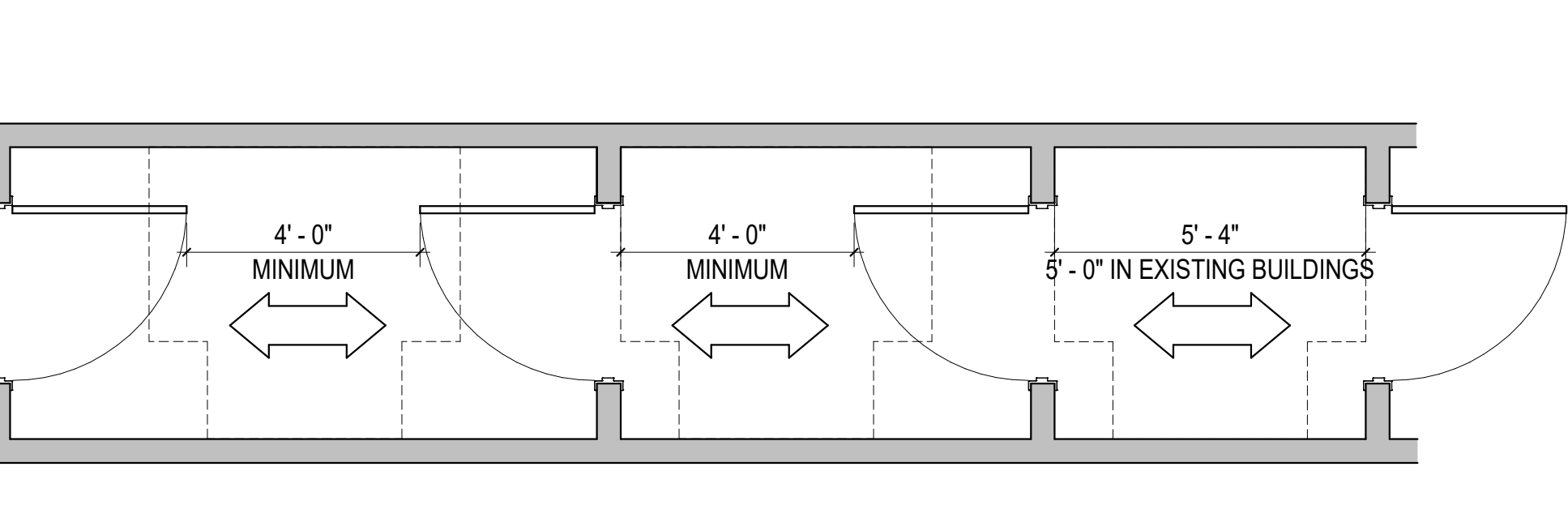
LATCH SIDE APPROACHES



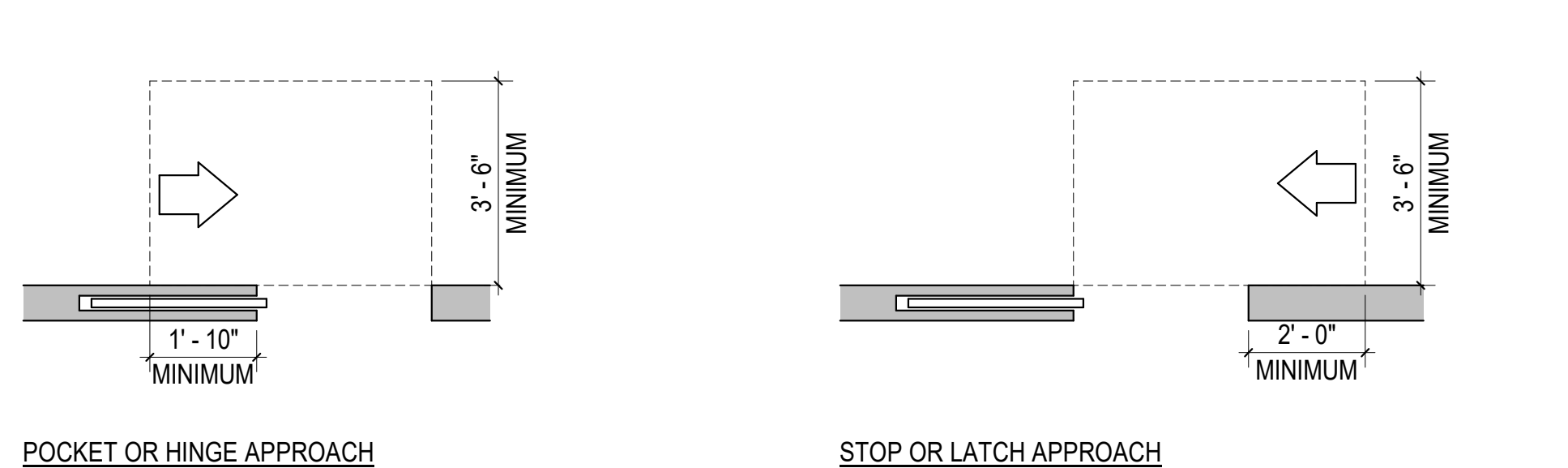
DOORWAY W/O DOORS, SLIDING DOORS, AND FOLDING DOORS

MPS MANEUVERING CLEARANCES AT DOORS (ICC/ANSI-2017)

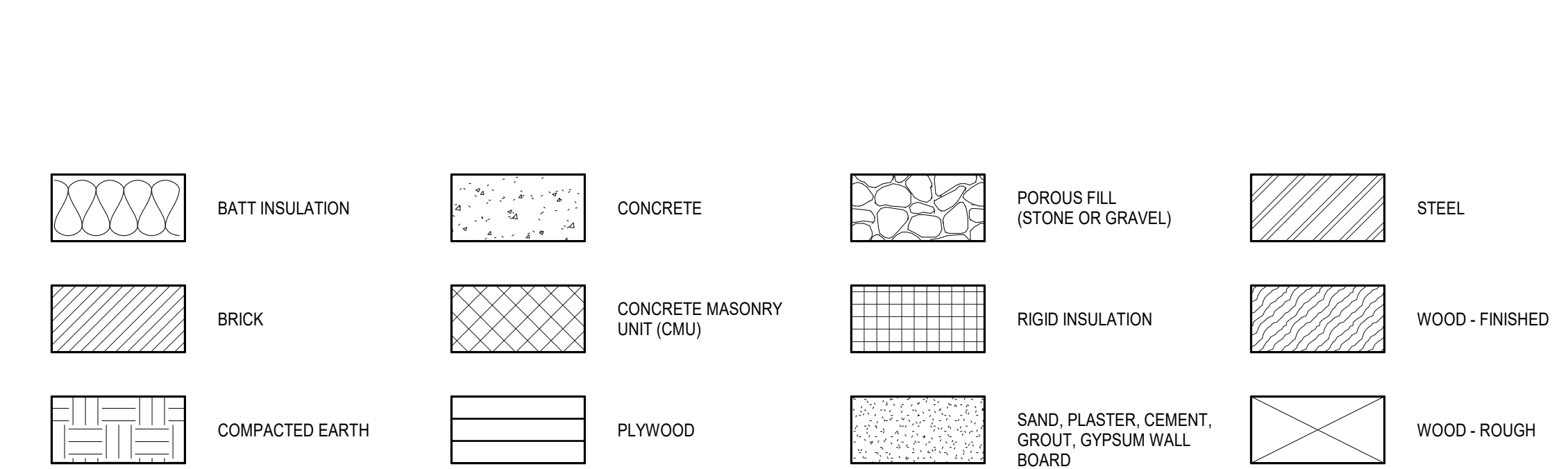
HINGE SIDE APPROACHES



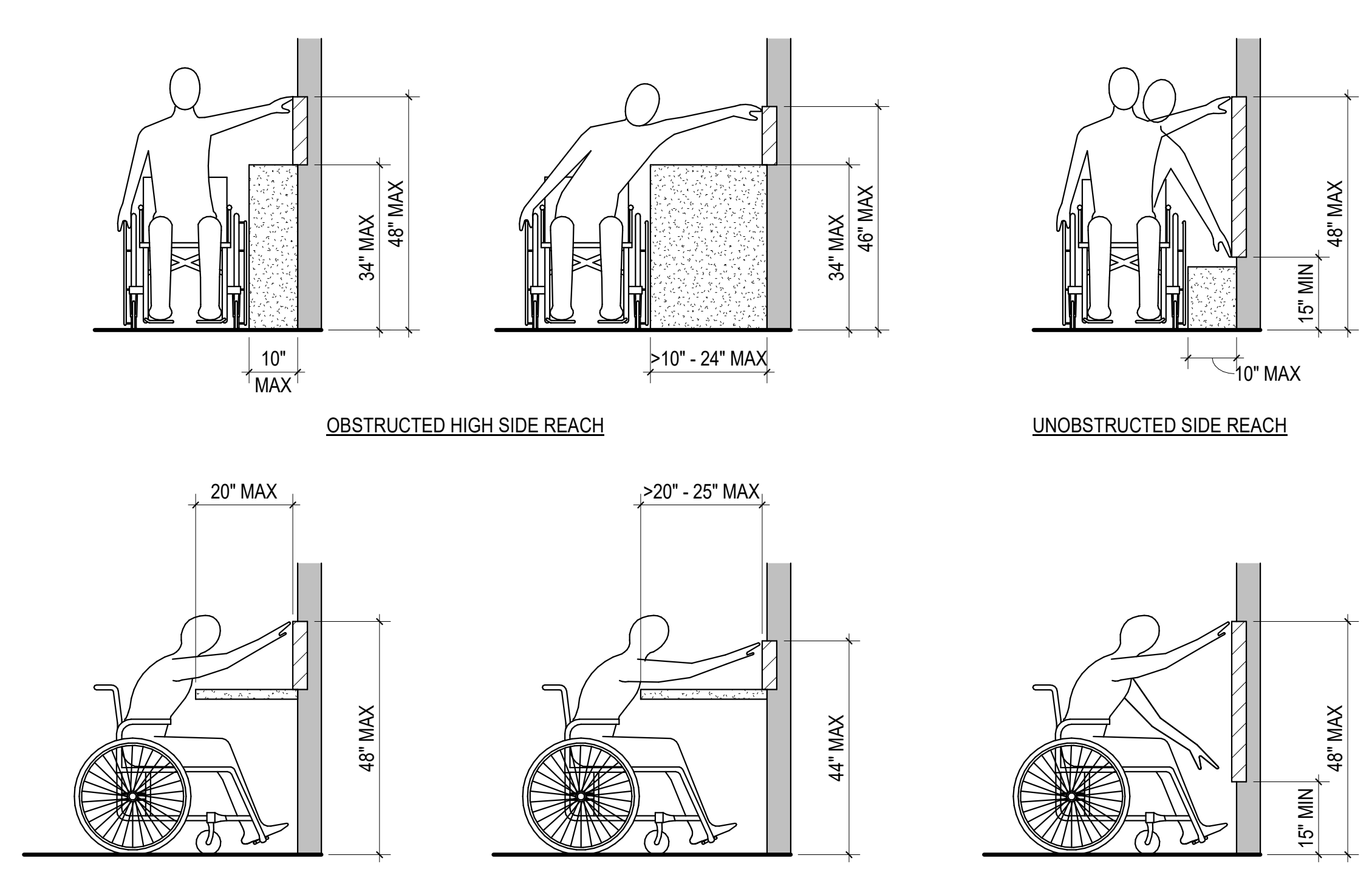
DOORS IN A SERIES



STANDARD GRAPHICS AND SYMBOLS

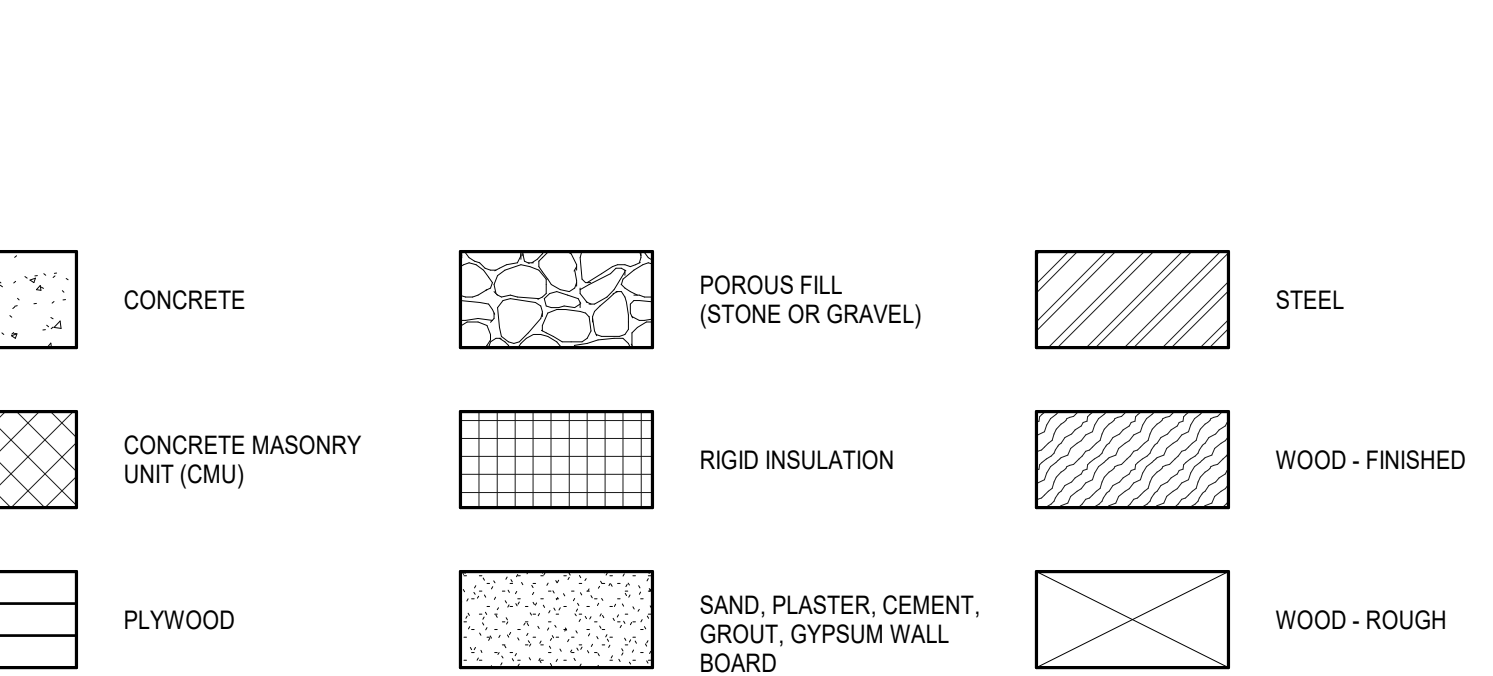


TYPICAL MATERIALS

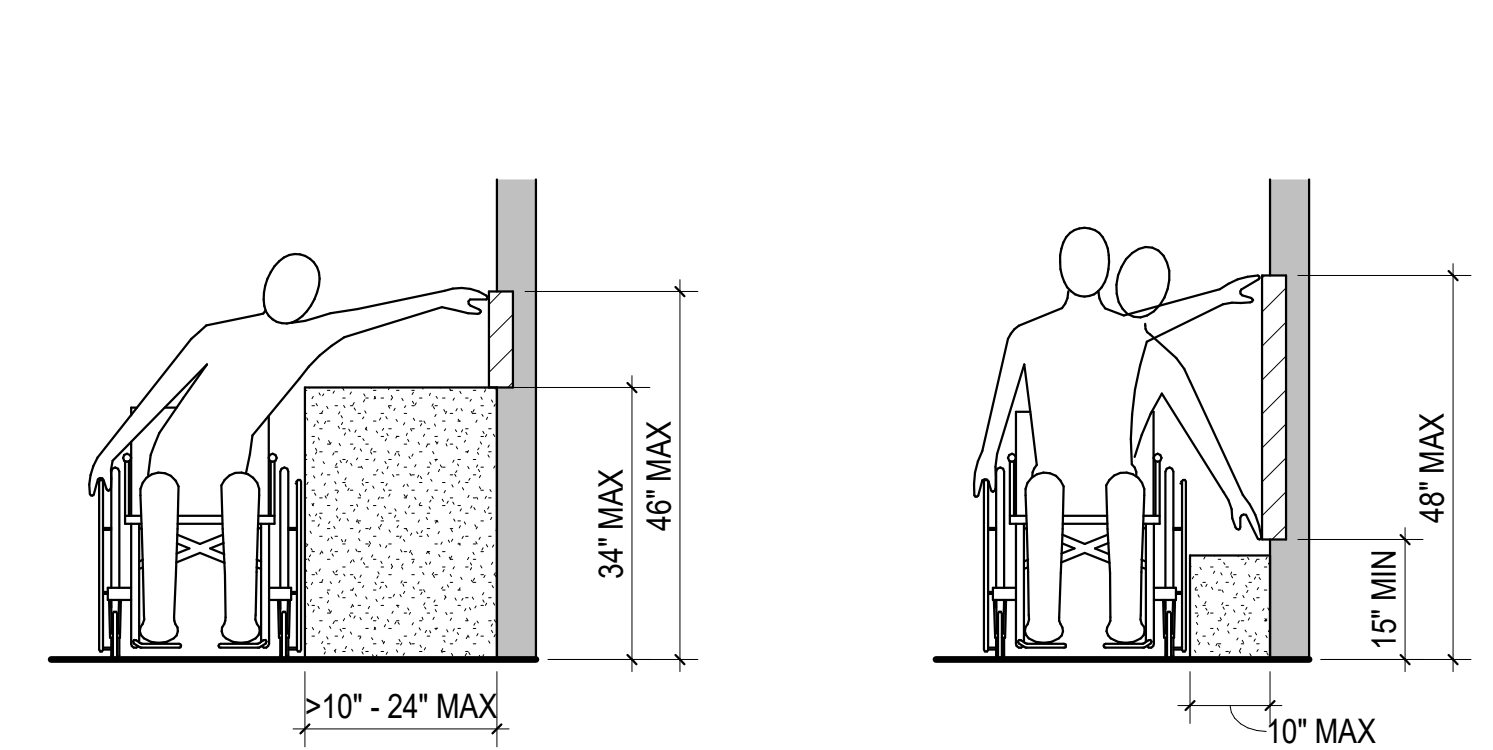


REACH RANGES

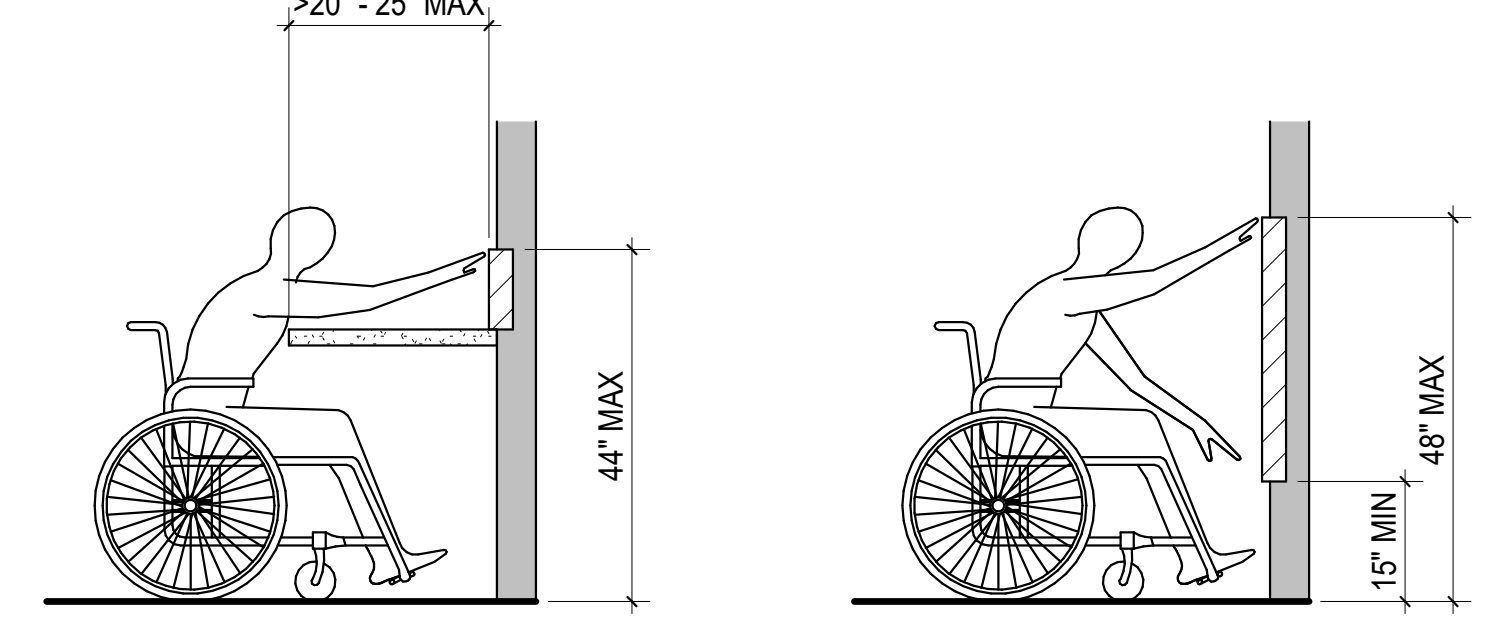
ANNOTATIONS



ROOM TAGS



VIEW REFERENCE



mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

SEALS

STATE OF SOUTH CAROLINA REGISTERED ARCHITECTS

McMILLAN PAZDAN SMITH, LLC GREENVILLE, SC 100573

STATE OF SOUTH CAROLINA REGISTERED ARCHITECT

Charlotte, NC No. 7693

05/10/2023

FORT MILL SCHOOL DISTRICT

NATION FORD ALTERNATIVE SCHOOL MODULAR

FORT MILL, SC

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
0	5.10.2023	CD SET	

CD SET

PRINCIPAL IN CHARGE: GBT

PROJECT ARCHITECT: CAB

DRAWN BY: MPS

SHEET TITLE: ABBREVIATION, SYMBOLS AND LEGENDS

SHEET NO. PROJ. NO. 023142.00

A001

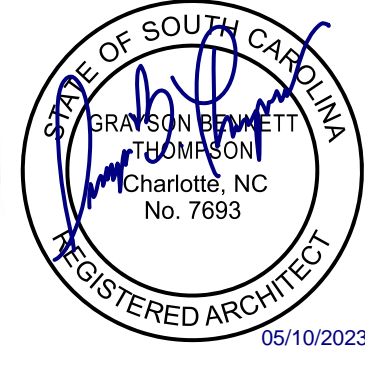
GENERAL NOTES

A. CONTRACTOR TO COORDINATE PORTABLES FOUNDATION WITH EXISTING UNDERGROUND UTILITIES. SHOULD A CONFLICT ARISE BETWEEN FOUNDATION LOCATION AND UNDERGROUND UTILITIES, CONTRACTOR TO NOTIFY ARCHITECT.



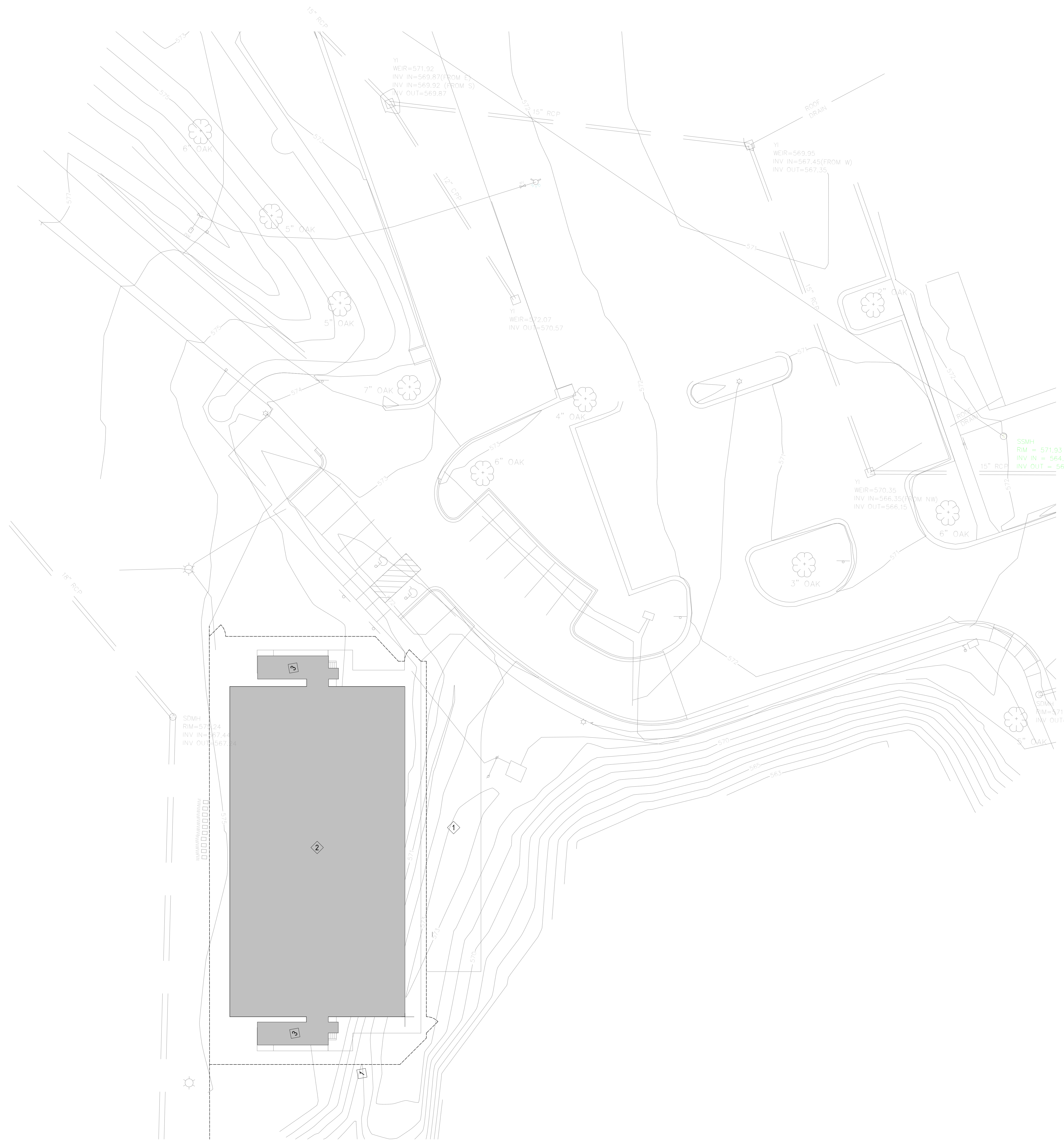
CONSULTANT LOGO

SEALS



SDMH
RIM=577.24
INV. OUT=569.94

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NOTES

1. FIRE TRUCK ACCESS AREA.
2. EXISTING MODULAR UNIT; TRANSPORT AND INSTALLATION BY OTHERS. SEE REFERENCE DRAWINGS FOR MORE BUILDING DETAILS
3. PREMANUFACTURED MODULAR RAMP SYSTEM TO BE PROVIDED BY OWNER, PURCHASED WITH UNIT. SYSTEM INCLUDES RAMPS, STAIRS, LANDINGS AND RAILINGS AND MUST COMPLY WITH ICC ANSI 117.1-2017 AND 2108 IBC. CONTRACTOR TO COORDINATE RAMP/STAIR SYSTEM LAYOUT WITH PORTABLES FFE AND EXISTING GRADING TO ENSURE ACCESSIBILITY REQUIREMENTS.

FORT MILL SCHOOL DISTRICT
 NATION FORD ALTERNATIVE
 SCHOOL MODULAR
 FORT MILL, SC

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY
0	5.10.2023	CD SET	

CD SET 06.10.2023
 PRINCIPAL IN CHARGE: GST
 PROJECT ARCHITECT: CAB
 DRAWN BY: MPS

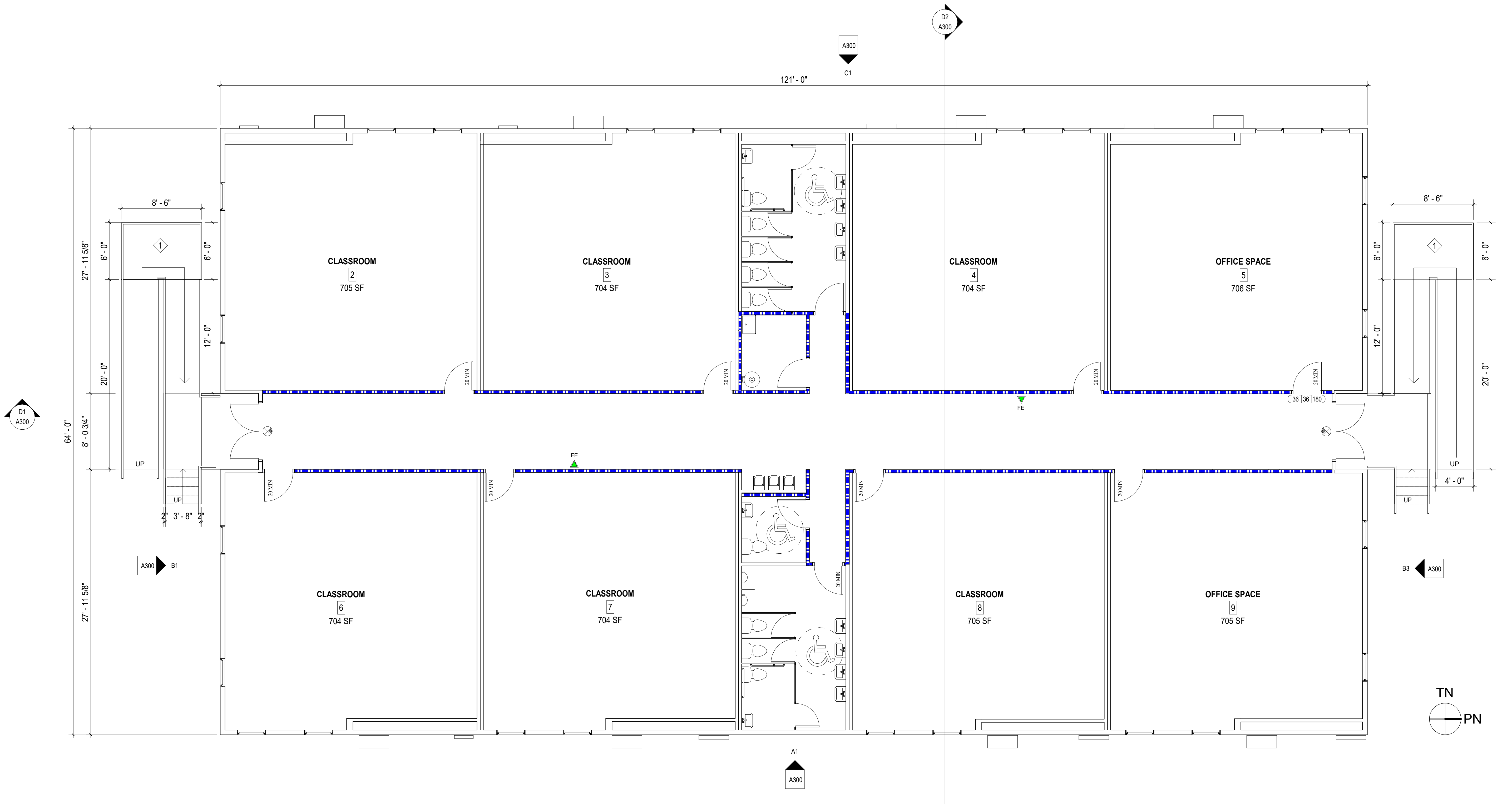
SHEET TITLE:
**ARCHITECTURAL
 SITE PLAN**

SHEET NO. PROJ. NO.
 023142.00



NOTES

- 1. PREMANUFACTURED MODULAR RAMP SYSTEM TO BE PROVIDED BY OWNER, PURCHASED WITH UNIT. SYSTEM INCLUDES RAMPS, STAIRS, LANDINGS AND RAILINGS AND MUST COMPLY WITH ICC ANS I 117.1-2017 AND 2108 IBC. CONTRACTOR TO COORDINATE RAMP/STAIR SYSTEM LAYOUT WITH PORTABLES FFE AND EXISTING GRADING TO ENSURE ACCESSIBILITY REQUIREMENTS.



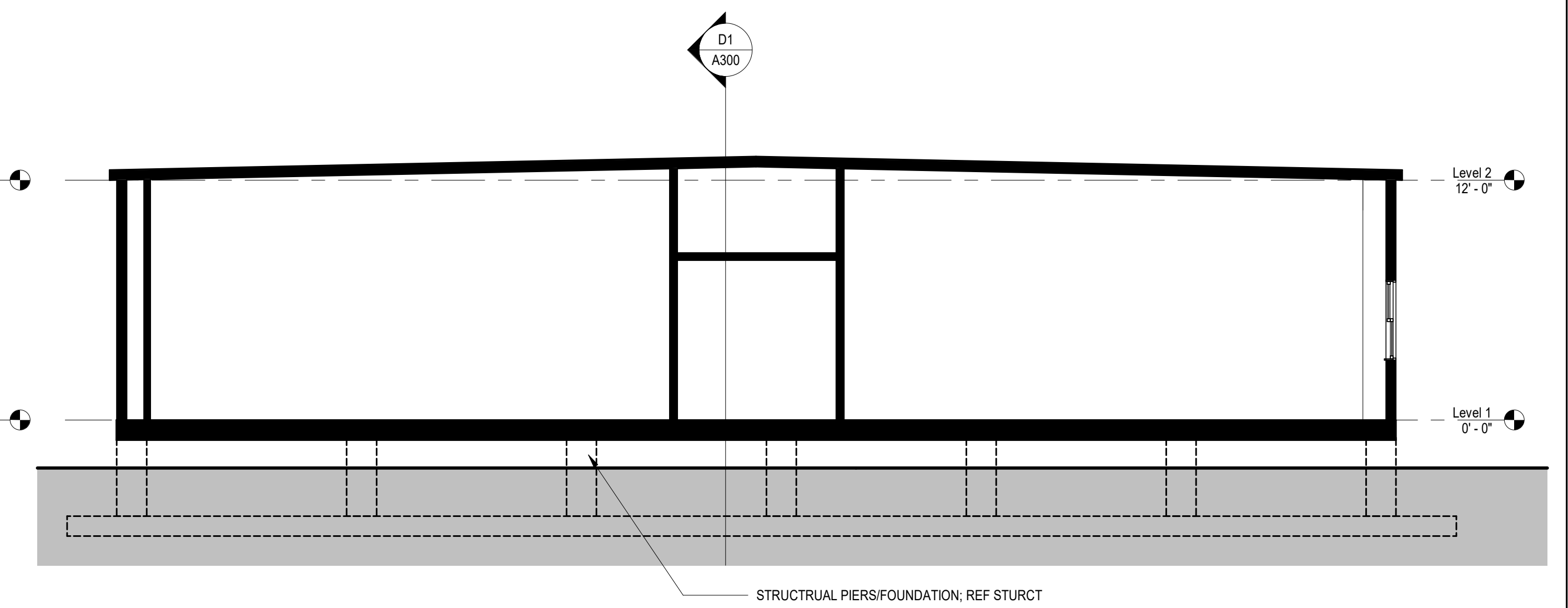
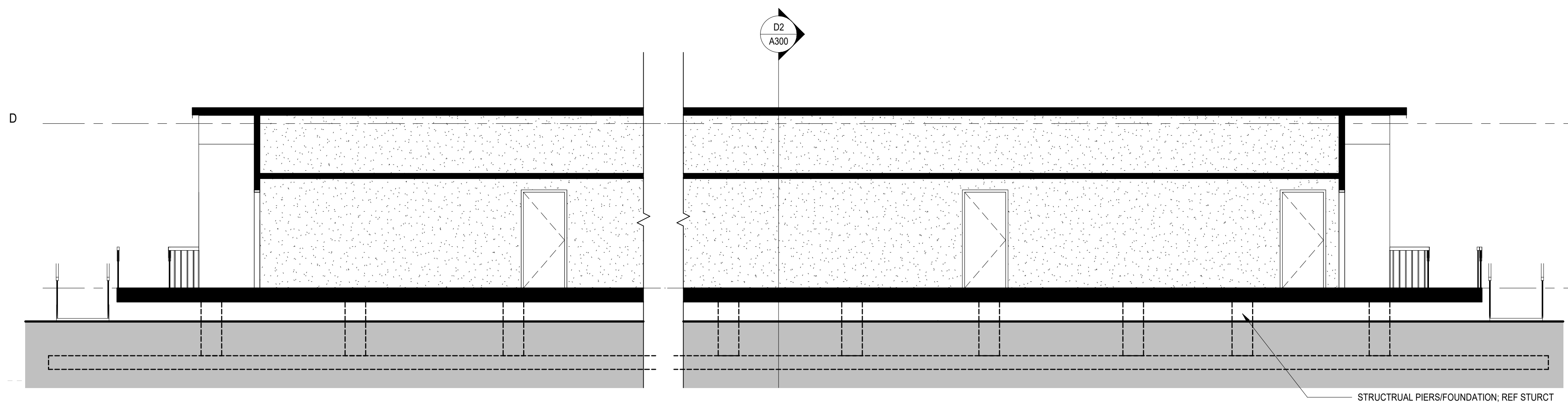
FORT MILL SCHOOL DISTRICT
NATION FORD ALTERNATIVE
SCHOOL MODULAR
FORT MILL, SC

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY
0	5.10.2023	CD SET	

CD SET	05.10.2023
PRINCIPAL IN CHARGE:	GST
PROJECT ARCHITECT:	CAB
DRAWN BY:	MPS

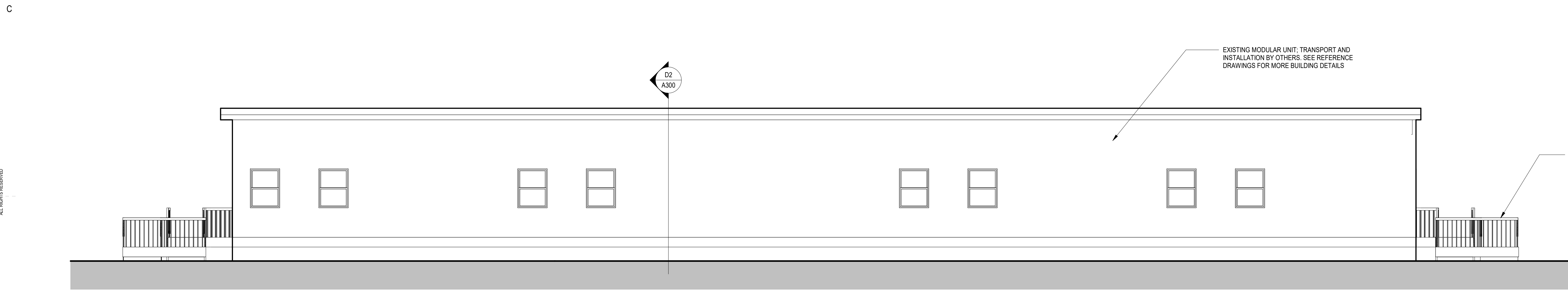
SHEET TITLE:
FIRST FLOOR PLAN

SHEET NO.	PROJ. NO.
A101	023142.00

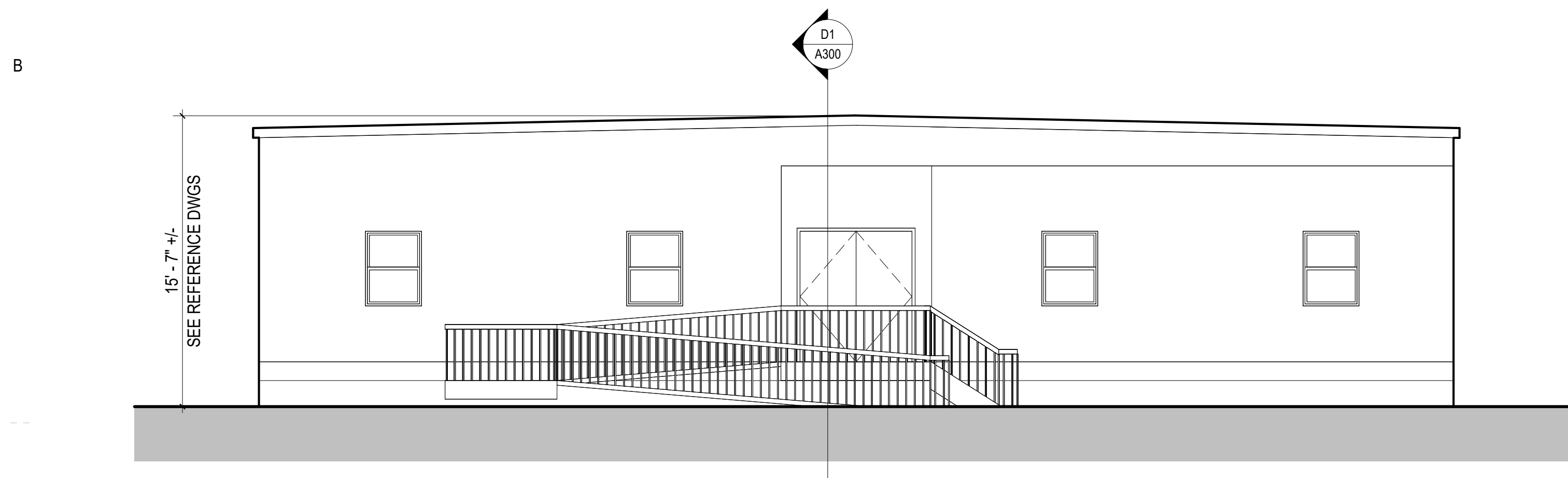


BUILDING SECTION 1
D1
A300 3/16" = 1'-0"

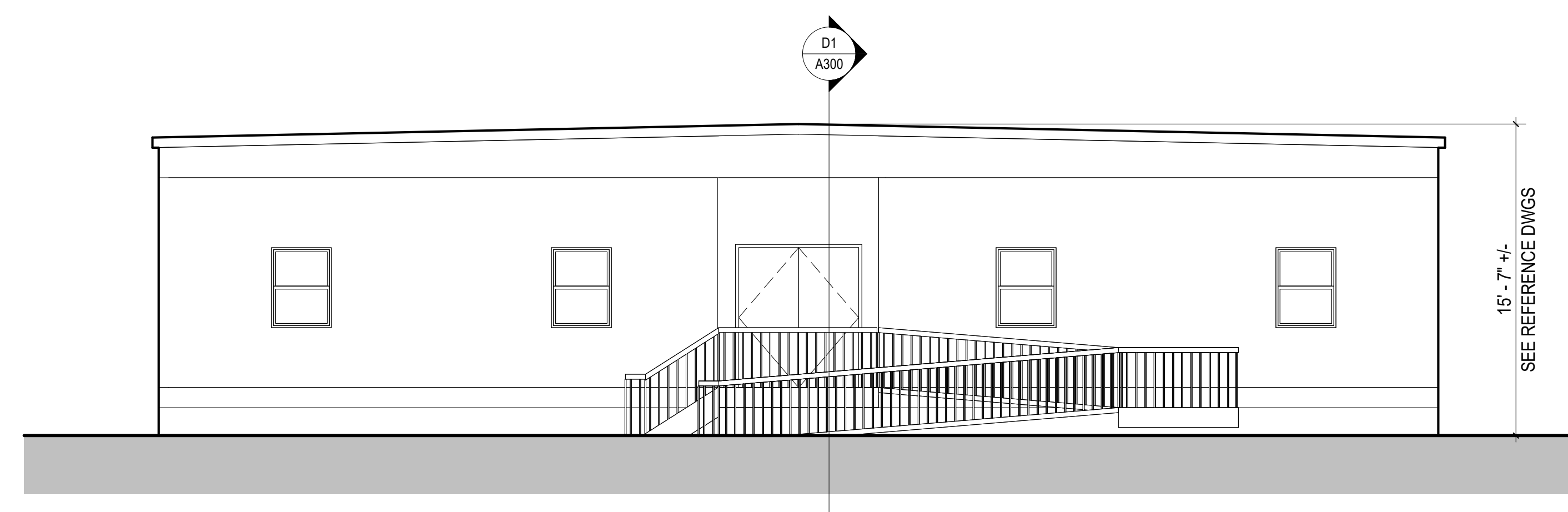
BUILDING SECTION 2
D2
A300 3/16" = 1'-0"



BUILDING ELEVATION 4
C1
A300 3/16" = 1'-0"



BUILDING ELEVATION 2
B1
A300 3/16" = 1'-0"



BUILDING ELEVATION 3
B3
A300 3/16" = 1'-0"



BUILDING ELEVATION 1
A1
A300 3/16" = 1'-0"

FORT MILL SCHOOL DISTRICT
NATION FORD ALTERNATIVE
SCHOOL MODULAR
FORT MILL, SC

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
0	5.10.2023	CD SET	

CD SET	05.10.2023
PRINCIPAL IN CHARGE:	GBT
PROJECT ARCHITECT:	CAB
DRAWN BY:	MPS

SHEET TITLE:
**BUILDING
ELEVATIONS AND
SECTIONS**

SHEET NO.	PROJ. NO.
A300	023142.00

A300

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ELECTRICAL CODES AND STANDARDS WITH SOUTH CAROLINA MODIFICATIONS

CODE	DESCRIPTION
IBC 2021	INTERNATIONAL BUILDING CODE
IEC 2009	INTERNATIONAL ENERGY CONSERVATION CODE
IFC 2021	INTERNATIONAL FIRE CODE
NFPA 70 2020	NATIONAL ELECTRICAL CODE

IECC 2009: N/A, NO INTERIOR SCOPE.

ELECTRICAL SHEET INDEX	
SHEET NUMBER	SHEET NAME
E001	ELECTRICAL LEGEND AND NOTES
E002	ELECTRICAL DIAGRAMS
E101	ELECTRICAL SITE PLAN
E201	LEVEL 1 POWER FLOOR PLAN

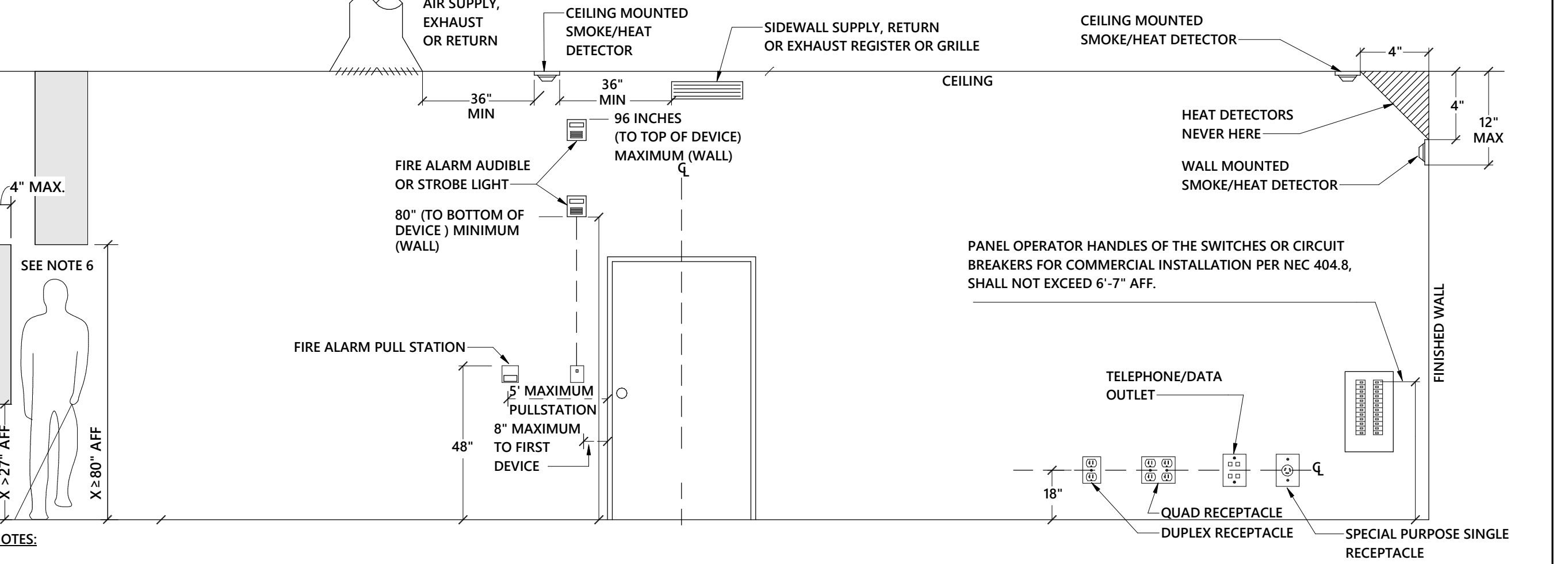
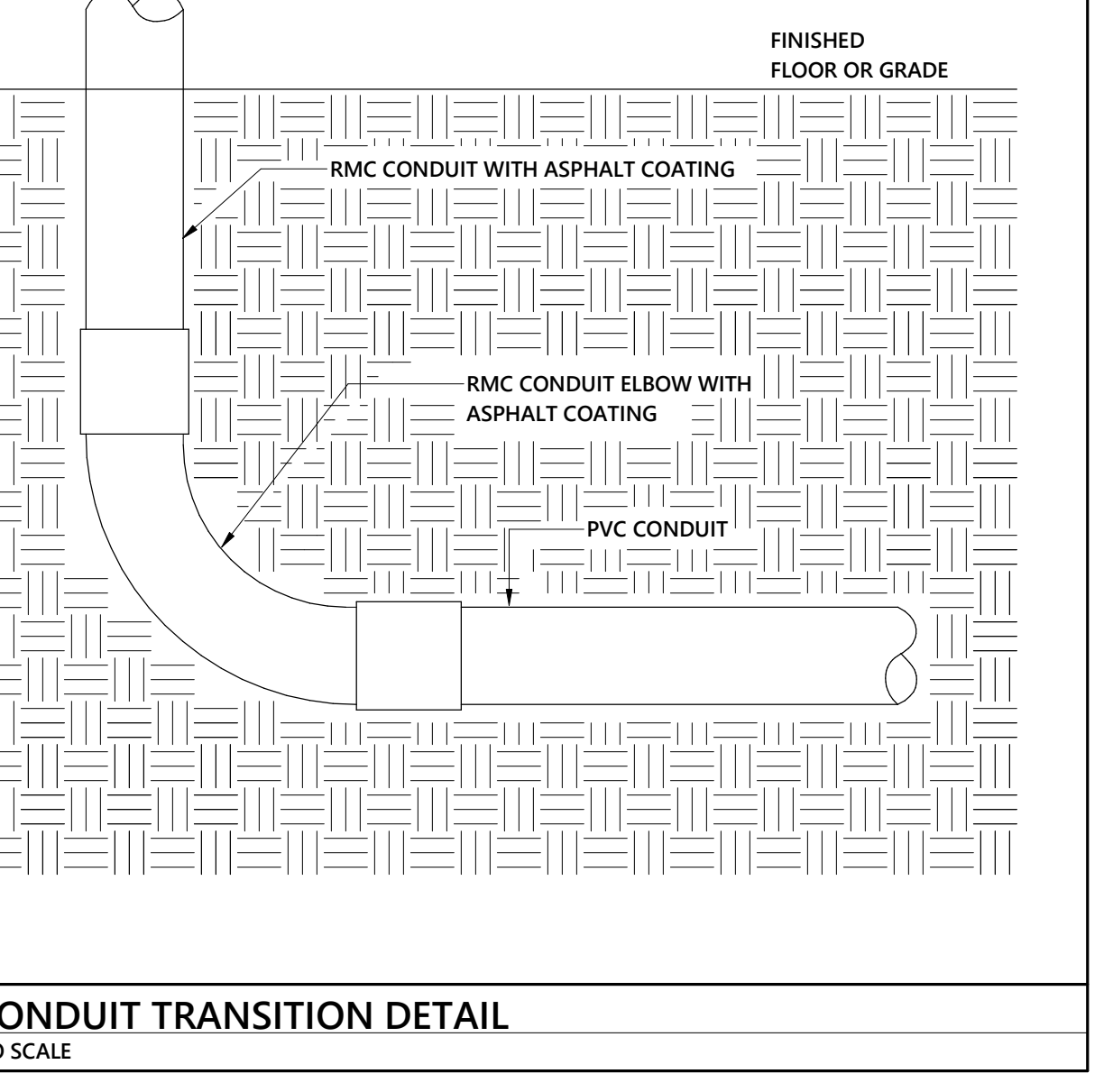
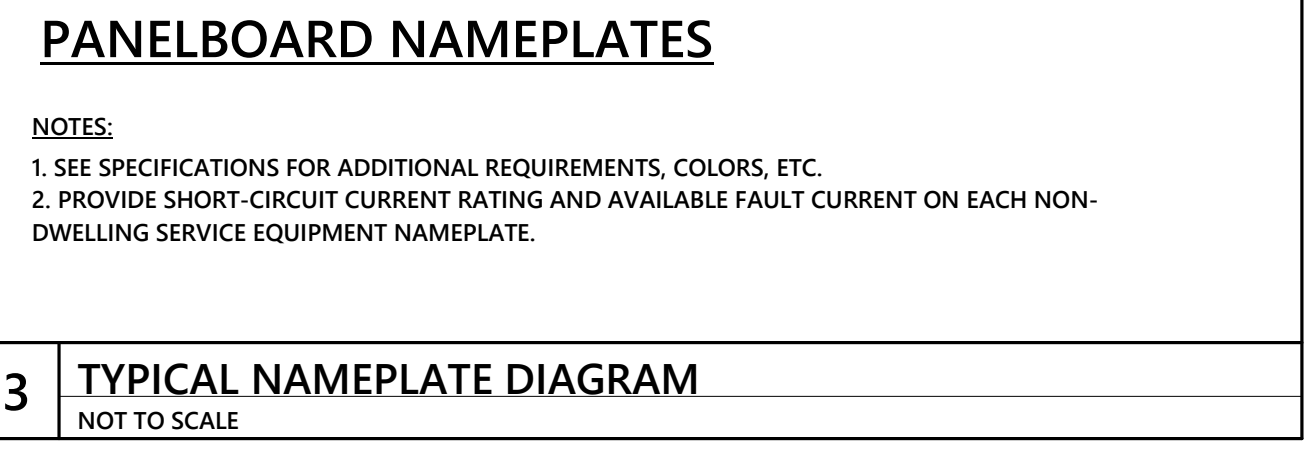
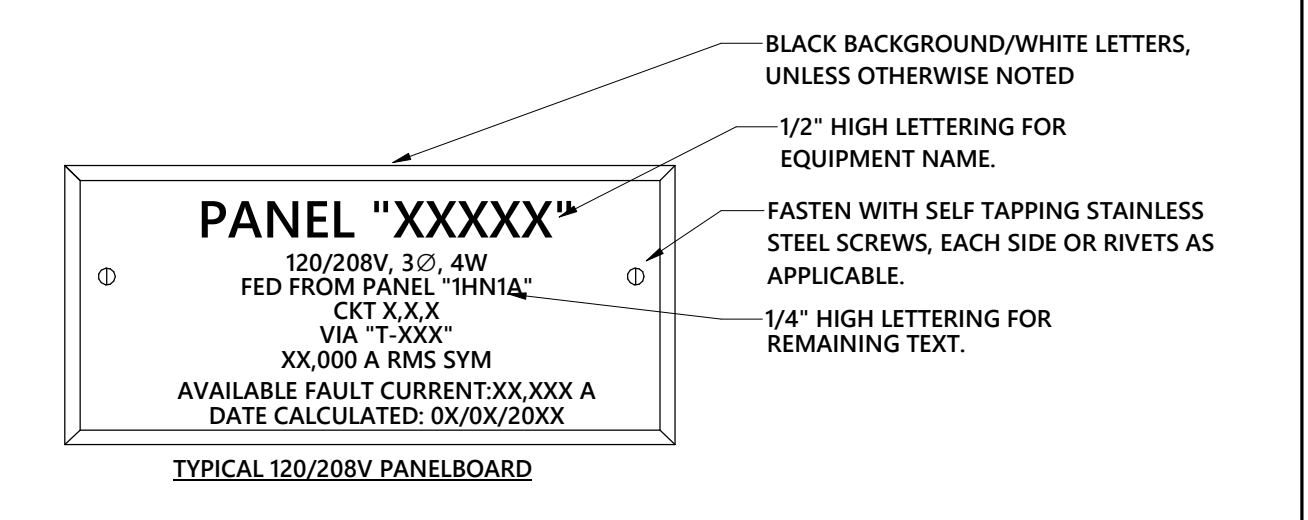
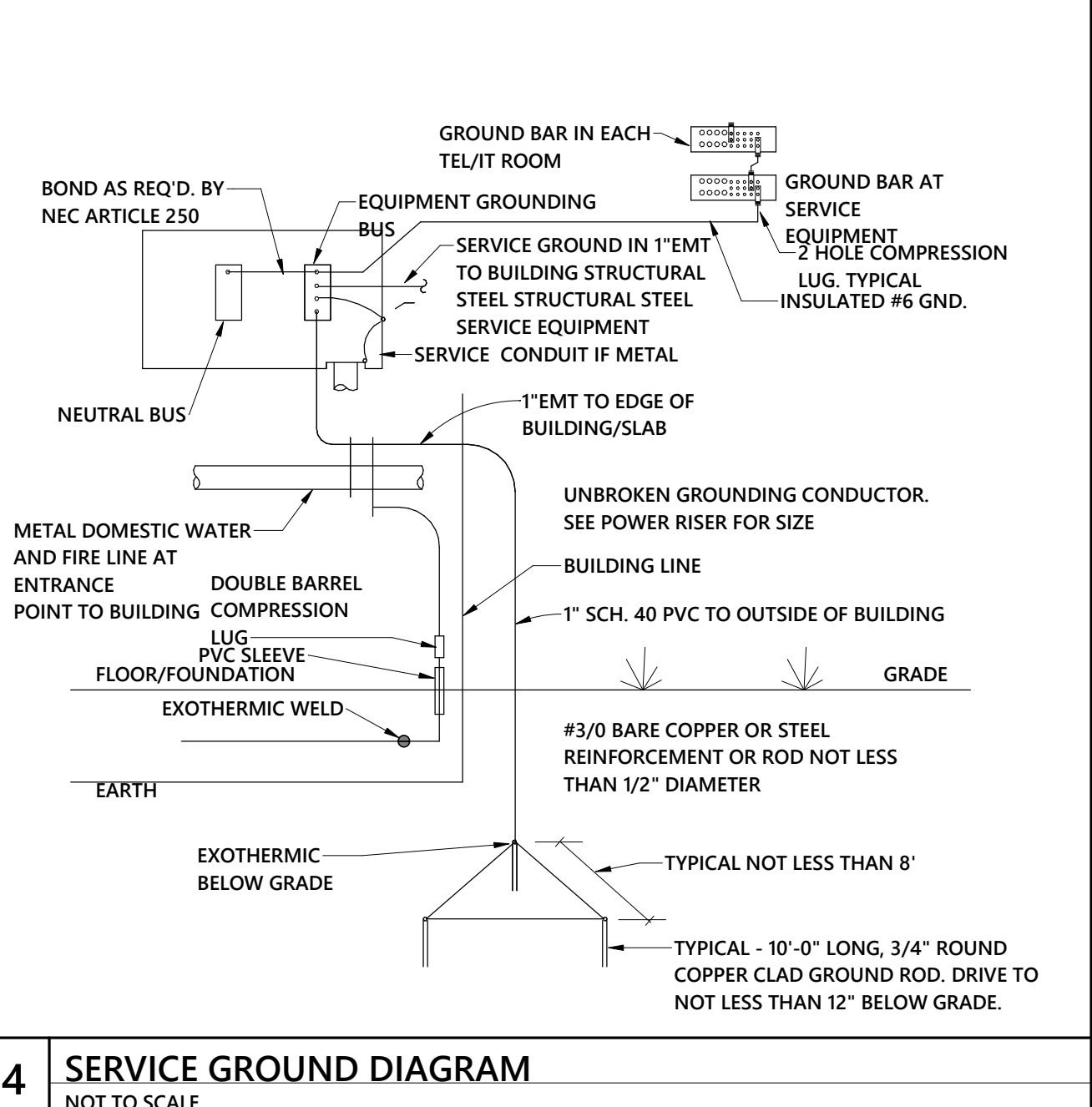
SYMBOL SCHEDULE POWER	
SYMBOL	DESCRIPTION
	WIRING SYSTEM CONCEALED IN WALL OR CEILING.
	WIRING SYSTEM CONCEALED IN OR UNDER SLAB OR UNDERGROUND.
	BRANCH CIRCUIT HOMERUN TO PANEL.

SYMBOL SCHEDULE POWER LEGEND	
SYMBOL	DESCRIPTION
	JUNCTION BOX WITH CONNECTION TO EQUIPMENT SERVED. 4" SQUARE BOX WITH A SINGLE-GANG OPENING AND PLASTER RING.
	240/120V SINGLE PHASE PANELBOARD. SEE SCHEDULE FOR MOUNTING, TOP OF PANEL AT 6'-6" AFF.
	208Y/120V THREE PHASE PANELBOARD. SEE SCHEDULE FOR MOUNTING, TOP OF PANEL AT 6'-6" AFF.
	FUSED HEAVY DUTY DISCONNECT SWITCH. NUMERALS INDICATE SWITCH RATING, NEMA 1 ENCLOSURE, UNLESS OTHERWISE NOTED. UNSHADED INDICATES NON-FUSED.

NFPA FIRE ALARM LEGEND	
SYMBOL	DESCRIPTION
	VOICE EVACUATION FIRE ALARM CONTROL PANEL
	PULLSTATION/FIRE ALARM
	SMOKE DETECTOR/SENSOR (DEFAULT PHOTOELECTRIC TYPE)
	FIRE ALARM STROBE (CANDELAS), WHITE FINISH
	FIRE ALARM SPEAKER/WSTROBE (CANDELAS), WHITE FINISH

ELECTRICAL FIXTURES LEGEND	
SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE, NEMA 5-20R, TAMPER RESISTANT.

ALTERNATE: PROVIDE VOICE FIRE ALARM SYSTEM AS INDICATED, COMPLETE WITH DIALER.
BASE BID: EXISTING FIRE ALARM SYSTEM TO REMAIN. PROVIDE AND INSTALL CELLULAR DIALER CONNECTION CONNECTED TO EXISTING SYSTEM.



- DEVICES ABOVE COUNTER TOPS SHALL BE A MAXIMUM OF 48" TO TOP OF DEVOICE.
- DEVICES NEXT TO DOOR EXIT SHALL BE WITHIN 8" (MAXIMUM) TYPICAL OF DOOR UNLESS OBSTACLES SUCH AS SIDELITES, ETC.
- DEVICES REQUIRED TO BE ADA ACCESSIBLE SHALL BE INSTALLED PER ANSI A117.1.
- ALL METALLIC & NON-METALLIC SWITCH AND RECEPTACLE BOXES INSTALLED IN FRAME WALLS SHALL INCLUDE APPROVED FIRESTOP PUTTY PADS APPLIED ON THE BACK AND ALL SIDES OF BOX NOT TOUCHING THE WOOD STUD.

- GENERAL:**
 - THE WORK COVERED BY THESE SPECIFICATIONS CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS, AND SUPPLIES AS NECESSARY FOR THE COMPLETE AND SATISFACTORY OPERATING ELECTRICAL SYSTEMS AS SHOWN ON THE PLANS.
 - ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE, NFPA, STATE BUILDING CODE, AND ANY OTHER LOCAL REQUIREMENTS THAT MAY APPLY.
 - CONTRACTOR SHALL OBTAIN AND PAY FOR ALL ELECTRICAL PERMITS AND INSPECTION FEES.
 - ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES, INC. OR BY A STATE APPROVED THIRD PARTY TESTING AGENCY FOR THE USE INTENDED WHERE A STANDARD FOR SUCH MATERIALS AND EQUIPMENT EXISTS. ALL ITEMS OF THE SAME TYPE AND RATING SHALL BE IDENTICAL AND OF THE SAME MANUFACTURER.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CATALOG DATA IN ELECTRONIC FORMAT (PDF) FOR ALL ELECTRICAL ITEMS IN THE SCOPE OF WORK, INCLUDING, BUT NOT LIMITED TO, RACEWAYS, BOXES, WIRING DEVICES, SAFETY SWITCHES, DISCONNECTS, PANELBOARDS, FIRE ALARMS, TELECOMMUNICATIONS, ETC. FOR APPROVAL AS APPLICABLE FOR THE PROJECT. ONE COMPLETE SET OF APPROVED SUBMITTALS SHALL BE MAINTAINED AT THE JOB SITE.
 - ALL COST ASSOCIATED WITH SUBSTITUTED EQUIPMENT TO COMPLY WITH THE BASIS OF DESIGN, INCLUDING PROVIDING MAINTENANCE ACCESS, CLEARANCE, CONDUIT, WIRING, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, METHODS, ETC., SHALL BE INCLUDED IN THE ORIGINAL BASE BID. NO ADDITIONAL COSTS ASSOCIATED WITH SUBSTITUTED EQUIPMENT WILL BE APPROVED AFTER BIDS HAVE BEEN ACCEPTED AND ALL COSTS WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. CREDITS SHALL BE GIVEN TO THE OWNER WHERE SUCH EQUIPMENT AND METHODS RESULT IN LESS EXPENSE TO THE CONTRACTOR.
 - ONE COMPLETE SET OF THE LATEST CONSTRUCTION PLANS OF ALL TRADES SHALL BE MAINTAINED AT THE JOB SITE. IN ADDITION, ALL ADDENDUMS, BULLETINS, AND/OR SKETCHES SHALL BE INCORPORATED INTO THE ON-SITE CONSTRUCTION PLANS AS THE JOB PROGRESSES.
 - COMPLETELY ADEQUATE HOUSING SHALL BE PROVIDED FOR ALL MATERIALS STORED ON JOB SITE. ONLY CONDUIT MAY BE STORED OUTSIDE BUT NOT IN CONTACT WITH THE GROUND.
 - THE CONDUIT AND NEUTRAL SYSTEM SHALL BE GROUNDED AT THE MAIN SERVICE EQUIPMENT. GROUNDING ELECTRODE SYSTEM SHALL BE INSTALLED PER NEC 250.
 - PROVIDE AN INTERSYSTEM BONDING TERMINATION DEVICE AT THE MAIN ELECTRICAL SERVICE PER NEC 250.54.
 - WIRING SHALL BE TESTED FOR CONTINUITY AND GROUNDS BEFORE BEING ENERGIZED. FAULTY WIRING SHALL BE REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.
 - PROVIDE ALL CUTTING AND PATCHING FOR INSTALLATION OF WORK AND REPAIR ANY DAMAGE DONE.
 - THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS (UNLESS OTHERWISE NOTED), EXCEPT FOR CONTROL WIRING FOR EQUIPMENT NOT PROVIDED BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING FOR SUCH EQUIPMENT SHALL BE PROVIDED BY THE RESPECTIVE DISCIPLINE.
 - ALL ELECTRICAL JUNCTION BOXES, SWITCHGEAR, CABLING, VOICE/DATA OUTLETS, LOW VOLTAGE CABINETS, EMERGENCY RECEPTACLES, ETC. SHALL BE LABELED ACCORDING TO PANEL/RACK AND CIRCUIT NUMBER.
 - UPON COMPLETION OF WORK, CONTRACTOR SHALL PRESENT ENGINEER WITH CERTIFICATE OF APPROVAL FROM LOCAL INSPECTOR AND/OR AUTHORITY HAVING JURISDICTION BEFORE WORK WILL BE APPROVED FOR FINAL PAYMENT.
 - CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR EFFECTIVE THE DATE THE PROJECT IS ACCEPTED BY THE OWNER. ANY IMPERFECT MATERIALS OR WORKMANSHIP SHALL BE REPLACED WITHOUT ADDED COST TO THE PROJECT.
 - IT SHALL NOT BE THE INTENT OF ISSUED PLANS AND/OR SPECIFICATIONS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE ELECTRICAL CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL NECESSARY ITEMS FOR A COMPLETE AND OPERATING SYSTEM.
 - THE WORD "PROVIDE" MEANS THAT THIS CONTRACTOR SHALL FURNISH, FABRICATE, ERECT, CONNECT, AND COMPLETELY INSTALL SYSTEMS IN PROPER OPERATING CONDITION. ALL LABOR, PRODUCT OPTIONS, ACCESSORIES AND SYSTEMS REQUIRED SHALL BE INCLUDED AS PART OF THIS WORK TO COMPLETE THE INSTALLATION.
 - THE WORD "CONNECT" MEANS THAT THIS CONTRACTOR SHALL PROVIDE (SEE DEFINITION ABOVE) ALL DISCONNECTING MEANS, OVERCURRENT PROTECTION AND WIRING REQUIRED TO PLACE THE EQUIPMENT AND SYSTEMS IN PROPER OPERATING CONDITION AND TO COMPLY WITH CODE REQUIREMENTS.
 - CONTRACTOR SHALL COORDINATE THE ROUGH-IN OF ALL OUTLET LOCATIONS WITH ARCHITECTURAL FLOOR PLANS, ELEVATIONS, AND MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN.
 - ELECTRICAL CONTRACTOR SHALL NOT SCALE PLANS. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, UNLESS OTHERWISE NOTED.
 - CONTRACTOR SHALL TEST ALL "LIFE SAFETY" EQUIPMENT AND SYSTEMS FOR PROPER FUNCTION AND OPERATION. UPON SUCCESSFUL COMPLETION OF TESTS, CONFIRMATION SHALL BE SENT TO THE ENGINEER OF RECORD IN THE FORM OF A LETTER STATING THE TESTS PERFORMED, THE RESULTS, AND THE DATE TESTS WERE SUCCESSFULLY COMPLETED. "LIFE SAFETY" EQUIPMENT AND SYSTEMS CONSIST OF THOSE AS SPECIFIED IN THE CONTRACT BUILDING CODE, THE NATIONAL ELECTRICAL CODE, NFPA 101, AND ANY OTHER LOCAL REQUIREMENTS THAT MAY APPLY.
 - IF DURING THE COURSE OF WORK, THE CONTRACTOR DISCOVERS A PROBLEM WITH THE PERFORMANCE OF THE INSTALLATION RELATIVE TO THE PLANS AND SPECIFICATIONS, THE NEC, OR OTHER CODES OR REQUIREMENTS, THE CONTRACTOR SHALL IMMEDIATELY BRING THE PROBLEM TO THE ATTENTION OF THE ARCHITECT AND/OR ENGINEER FOR RESOLUTION PRIOR TO THE EXECUTION OF THE WORK.
 - WHERE THERE ARE CONFLICTS BETWEEN THE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL BRING THE ISSUE TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION PRIOR TO THE EXECUTION OF THE WORK OR ORDERING ANY MATERIALS. NO ADDITIONAL COSTS SHALL BE WARRANTED WITHOUT A CHANGE TO THE PROJECT SCOPE.
 - THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INSTALLING TEMPORARY POWER AND LIGHTING FOR ALL TRADES. AT NO TIME SHALL EXISTING BUILDING POWER SYSTEMS BE UTILIZED WITHOUT WRITTEN PERMISSION FROM THE OWNER.
 - COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRICAL SERVICE WITH THE POWER COMPANY. WHERE MORE THAN ONE SERVICE IS SUPPLIED TO A BUILDING, PROVIDE IDENTIFICATION AT EACH SERVICE PER NEC 230-2(E).
 - COORDINATE LOCATION AND REQUIREMENTS FOR TELEPHONE SERVICE WITH THE TELEPHONE COMPANY.
 - EACH BIDDER SHALL VISIT THE JOB SITE PRIOR TO BIDDING TO FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND TO ASCERTAIN THE EXTENT OF WORK REQUIRED. FAILURE TO VISIT SITE SHALL NOT EXCUSE CONTRACTOR FROM PERFORMING REQUIRED WORK NOR SHALL IT BE AN ACCEPTABLE REASON FOR REQUESTING ADDITIONS TO THE CONTRACT.
- RACEWAY:**
 - CONDUIT SHALL BE MANUFACTURED BY ALLED, WHEATLAND, REPUBLIC CONDUIT, WESTERN TUBE, OR APPROVED EQUIVALENT.
 - FOR INTERIOR WORK, CONDUIT SHALL BE ZINC COATED EMT EXCEPT WHERE NOT PERMITTED BY CODE. USE SCHEDULE 40 PVC BELOW CONCRETE SLAB, IN DUCTBANKS, AND FOR EXTERIOR WORK WHERE NOT SUBJECT TO DAMAGE. USE IMC WHERE SUBJECT TO PHYSICAL DAMAGE.
 - EMT FITTINGS SHALL BE COMPRESSION GLAND TYPE, OF MALLEABLE STEEL. CONNECTORS SHALL HAVE INSULATED THROATS. CAST, SET SCREW, OR INDENTER TYPE FITTINGS ARE NOT ACCEPTABLE. ALL FITTINGS FOR EMT SHALL BE MADE OF STEEL.
 - ALL RACEWAY SHALL BE RUN CONCEALED, OR PERPENDICULAR TO BUILDING LINES, WHETHER EXPOSED OR NOT AND SUPPORTED FROM STRUCTURE AND PROPERLY SECURED.
 - WHERE CONDUITS PASS THROUGH A BUILDING EXPANSION JOINT, PROVIDE GALVANIZED EXPANSION FITTINGS WITH BONDING JUMPERS.
 - MINIMUM CONDUIT SIZE SHALL BE 3/4" FOR INTERIOR WORK, 1" FOR EXTERIOR WORK.
 - PROVIDE MINIMUM 210# TEST NYLON PULL CORD AND NYLON BUSHINGS IN ALL EMPT RACEWAYS.
 - RACEWAY PENETRATIONS THROUGH FLOOR, SLABS AND FIRE-RATED WALLS SHALL BE FILLED WITH IMPERVIOUS, NON-SHRINK GROUT SUFFICIENTLY TIGHT TO PREVENT THE TRANSFER OF SMOKE, WATER, AND DUST. ROOF PENETRATIONS SHALL BE WITHIN THE EQUIPMENT ROOF CURB.
 - SUPPORT ALL CONDUIT WITH STRAPS AND CLAMPS.
 - ALL CONDUIT SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES, WHETHER EXPOSED OR NOT AND SUPPORTED FROM STRUCTURE AND PROPERLY SECURED.
 - WHERE CONDUITS PASS THROUGH A BUILDING EXPANSION JOINT, PROVIDE GALVANIZED EXPANSION FITTINGS WITH BONDING JUMPERS.
 - MINIMUM CONDUIT SIZE SHALL BE 3/4" FOR INTERIOR WORK, 1" FOR EXTERIOR WORK.
 - PROVIDE MINIMUM 210# TEST NYLON PULL CORD AND NYLON BUSHINGS IN ALL EMPT RACEWAYS.
 - LIQUID-TIGHT METAL CONDUIT SHALL ONLY BE USED FOR FINAL CONNECTIONS TO EQUIPMENT AND ALL OTHER ROTATING AND VIBRATING EQUIPMENT, MAXIMUM LENGTH OF 3'-0".
 - FLEXIBLE METAL CONDUIT, MINIMUM SIZE 3/8", SHALL ONLY BE USED FOR FINAL CONNECTION TO LIGHTING FIXTURES, MAXIMUM LENGTH OF 6'-0".
 - PROVIDE PULL BOXES SUCH THAT NO SINGLE CONDUIT RUN HAS BENDS IN EXCESS OF 360°. PULL BOXES SHALL BE SUITABLE AND APPROVED FOR THE INTENDED USE. WHERE CONDUITS PASS UNDER PAVED AREAS, THEY SHALL BE RGS.
 - ALL CONDUIT BENDS/ELBOWS EMERGING FROM UNDERGROUND SHALL BE IMC AND SHALL EXTEND A MINIMUM OF 18" BELOW GRADE.
 - ALL UNDERGROUND RACEWAYS SHALL BE THOROUGHLY COATED WITH TWO COATS OF ASPHALTUM BITUMASTIC.
 - ALL CONDUITS INSTALLED UNDERGROUND OR IN CONCRETE SHALL HAVE JOINTS MADE WATER-TIGHT BY USE OF POLYETHYLENE FLUORIDE TAPE.
 - THE USE OF AC OR NM CABLE IS NOT PERMITTED.
 - MC CABLE MAY ONLY BE UTILIZED WHERE PERMITTED BY CODE AND IT SHALL ONLY BE ALLOWED WHERE CONCEALED BEHIND HARD WALLS AND HARD CEILING. MC CABLE SHALL NOT BE EXPOSED.
- OUTLET BOXES:**
 - JUNCTION AND PULL BOXES SHALL BE CODE GAUGE GALVANIZED STEEL. ACCEPTED MANUFACTURERS SHALL BE STEEL CITY (THOMAS & BETTS), RACO, GROUSE-HINDS, APPLETON (EMERSON), OR APPROVED EQUIVALENT.
 - OUTLET BOXES SHALL NOT BE MOUNTED BACK TO BACK IN COMMON WALLS.
 - ATTACH EMT WITH CONNECTORS HAVING INSULATED STRAPS.
 - ATTACH BOXES TO STUD WORK USING CADDY BAR STRAPS THAT CONNECT TO TWO ADJACENT METAL STUDS TO PREVENT TWISTING OF BOX IN WALL.
 - ALL OUTLET BOXES (INCLUDING TELEPHONE, CABLE TV, AND COMPUTER) SHALL HAVE COVER PLATES. BLANK IF NOT USED.
 - ALL EXTERIOR BOXES SHALL BE WATER-TIGHT.

- CONDUCTORS:**
 - CONDUCTORS SHALL BE MANUFACTURED BY SOUTHWIRE (SIMPUL), ENCORE (SUPERLUCK), UNITED COPPER (SLK), CERRO (SLP), OR APPROVED EQUAL, "PRE-LUBRICATED" BY THE MANUFACTURER.
 - ALL CONDUCTORS SHALL BE COPPER, RATED 75° C WET/DRY EXCEPT WHERE OTHERWISE NOTED OR REQUIRED BY U.L. OR OTHER CODES.
 - ALL CONDUCTORS SHALL BE SINGLE INSULATED CONDUCTOR, THHN/THWN-2, SIZES #10 AWG AND SMALLER SHALL BE SOLID, SIZES #8 AWG AND LARGER SHALL BE STRANDED.
 - BRANCH CIRCUITS SHALL NOT BE SMALLER THAN #12 AWG. CONTROL WIRING MAY BE #14 AWG.
 - CONDUCTORS SHALL BE COLOR CODED BLACK/RED/BLUE FOR 120/208 VOLT SYSTEMS NEUTRAL SHALL BE WHITE FOR 120/208 VOLT SYSTEMS. GROUND CONDUCTOR SHALL BE GREEN. ALL CONDUCTOR SIZES SHALL HAVE COLOR-CODED INSULATION. THE USE OF COLORED TAPE ON LARGER WIRE SIZES SHALL NOT BE ALLOWED.
 - ALL CONDUCTORS SHALL BE DUAL RATED TYPE THHN/THWN-2 FOR FEEDERS AND BRANCH CIRCUITS. FIXTURE TAPS SHALL BE #12 THHN/THWN-2 IN FLEX WITH GREEN #12 AWG GROUNDING CONDUCTOR.
 - ALL CONDUCTORS SHALL BE IN CONDUIT.
 - WIRING TO LIGHTING FIXTURES SHALL BE AS REQUIRED BY UL LABEL.
 - MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE ALLOWED. JOINTS IN #10 AWG AND SMALLER SHALL BE MADE UP WITH CRIMPED CONNECTORS WITH INSULATING CAPS (NO TAPE) OR WIRENUTS (MAXIMUM OF 3 CONDUCTORS UNDER ANY CONNECTOR OR WIRENUT). LARGER WIRE SHALL USE SPLIT BOLTS OR BOLTED CLAMPS.
 - ALL WIRING LUGS THROUGHOUT THE PROJECT, INCLUDING, BUT NOT LIMITED TO, BREAKERS, PANELBOARD/SWITCHBOARD LUGS, SAFETY SWITCH LUGS, WIRING DEVICE TERMINALS, AND ALL EQUIPMENT LUGS/TERMINALS SHALL BE RATED FOR USE WITH 75 DEGREE INSULATED CONDUCTORS AT THEIR 75 DEGREE AMPACITY AND SHALL BE SIZED AND SELECTED TO MATCH THE CONDUCTOR SIZE AND MATERIAL.
 - CIRCUIT JOINTS SHALL NOT BE MADE ON DEVICE TERMINALS.
 - WIRE WITHIN PANELBOARDS SHALL BE NEATLY TRAINED, SQUARE, BURNCHED, AND TAGGED.
 - GROUND ALL EQUIPMENT PER NEC ARTICLE 250. BOND WHERE CONDUTS ENTER ENCLOSURES THROUGH CONCENTRIC KNOCKOUTS. ALL FLEX, INCLUDING FIXTURE TAPS, SHALL INCLUDE GREEN GROUNDING CONDUCTOR #12 AWG MINIMUM. PROVIDE GREEN INSULATED EQUIPMENT GROUNDING CONDUIT IN EACH CONDUIT AND FOR EACH CIRCUIT, SIZED PER NEC 250-122.
 - ALL CONDUCTORS INSTALLED IN VERTICAL RACEWAYS SHALL BE SUPPORTED AT INTERVALS AS REQUIRED PER NEC 300-19.
 - THE ELECTRICAL CONTRACTOR SHALL FOLLOW AND APPLY THE TABLES AND SCHEDULES IN THE NATIONAL ELECTRICAL CODE WHICH INDICATES, FOR SIZING, ALL 120V & 277V, 20 AMP BRANCH CIRCUITS (COPPER CONDUCTORS) TO ALLOW A MAXIMUM OF 3% VOLTAGE DROP FROM THE CIRCUIT BREAKER TO THE FIRST DEVICE ON THE BRANCH CIRCUIT AND ACHIEVE A MAXIMUM OF 5% VOLTAGE DROP ACROSS THE ENTIRE BRANCH CIRCUIT.
- WIRING DEVICES:**
 - WIRING DEVICES SHALL BE SPECIFICATION GRADE, MINIMUM, EQUAL TO COOPER QUALITY INDICATED BELOW OR AS MANUFACTURED BY HUBBELL, LEGRAND-PASS & SEYMOUR, LEVITON, OR APPROVED EQUAL, UNLESS OTHERWISE NOTED:
 - SWITCHES (120/277V) SHALL BE AS FOLLOWS:

VOLTAGE	CONDUCTOR LENGTH*	BRANCH CIRCUIT
120	0'-50"	#12
120	51'-90"	#10
120	91'-140"	#8
120	141'-255"	#6

* - THE LENGTH IS MEASURED FROM THE CIRCUIT BREAKER TO THE FIRST DEVICE WHICH THE BRANCH CIRCUIT SERVES. WHERE THE DISTANCE EXCEEDS ABOVE, CONSULT WITH THE ENGINEER.
 - ALL BRANCH CIRCUIT CONDUCTORS FROM ISOLATED POWER SOURCES SHALL BE STRIP GROUNDING CONDUIT AND SHALL BE TYPE XHHW-2, COLOR CODED ORANGE FOR CONDUCTOR #1, BROWN FOR CONDUCTOR #2, AND YELLOW FOR CONDUCTOR #3.
- SUPPORTS:**
 - ALL EQUIPMENT SHALL BE ADEQUATELY SUPPORTED FROM STRUCTURE.
 - ADJACENT DEVICES SHALL HAVE A COMMON WALL PLATE.
 - WEATHERPROOF COVERS SHALL BE "WHILE-IN-USE" AND EXTRA-DUTY RATED SO PLUGS MAY BE INSTALLED WITHOUT COMPROMISING THE WP FUNCTION. COOPER PWU-2 DOUBLE GANG WITH CLEAR COVER OR APPROVED EQUAL.
 - A MAXIMUM OF 10 GENERAL PURPOSE RECEPTACLES SHALL BE ON EACH BRANCH CIRCUIT.
 - FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION FOR PERSONNEL SHALL BE PROVIDED FOR ALL LOCATIONS PER NEC 210.8, INSTALLED IN A READILY ACCESSIBLE LOCATION, WHERE A DEVICE LOCATION IS NOT ACCESSIBLE, THE GFCI PROTECTION SHALL BE PROVIDED WITH THE BREAKER SERVING THE DEVICE.
 - TAMPER-RESISTANT RECEPTACLES SHALL BE PROVIDED FOR ALL AREAS PER NEC 406.12, INCLUDING EDUCATION FACILITIES.

- PAINTING:**
 - SUITABLE FINISH COAT SHALL BE PROVIDED FOR ALL EQUIPMENT. PANEL TUBS, COVERS, ETC. SHALL BE PRIMED AND ENAMELED TO BLEND WITH ADJACENT SURFACES. OR SHALL BE MANUFACTURER'S STANDARD COLOR BAKED ENAMEL FINISH, OR AS DIRECTED BY THE ARCHITECT.
 - CONTRACTOR TO PAINT WHERE EXISTING EXPOSED PANELBOARDS, SURFACE RACEWAY, SURFACE BOXES, ETC. HAVE BEEN REMOVED DURING THE DEMOLITION PHASE, EITHER FOR TEMPORARY WORK OR PERMANENTLY.
- EQUIPMENT IDENTIFICATION:**
 - PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT SUPPLIED FOR THE PROJECT, INCLUDING BUT NOT LIMITED TO, WIRING TROUGH, DISCONNECTS, PANELBOARDS, ETC. NAMEPLATE SHALL INDICATE THE DEVICE NAME, SYSTEM VOLTAGE (VOLTAGE/PHASE/WIRE), AND UPSTREAM DEVICE AND CIRCUIT. PROVIDE NAMEPLATES FOR CIRCUIT BREAKERS SWITCHBOARDS AND DISTRIBUTION PANELS.
 - NAMEPLATE COLORS SHALL BE AS FOLLOWS:

120/208V EQUIPMENT	BLUE SURFACE WITH WHITE CORE
FIRE ALARM SYSTEMS	BRIGHT RED SURFACE WITH WHITE CORE
DATA SYSTEMS	BROWN SURFACE WITH WHITE CORE
- DISCONNECTS:**
 - DISCONNECT SWITCHES SHALL BE HEAVY-DUTY TYPE IN NEMA 1 ENCLOSURES, UNLESS OTHERWISE NOTED. FUSED OR NON-FUSED AS INDICATED. SWITCHES SHALL HAVE REACTION-TYPE FUSE CLIPS. SWITCHES SHALL BE BY Eaton, SQUARE D, GENERAL ELECTRIC, OR APPROVED EQUAL. WHERE FED FROM A LOAD CENTER, GENERAL DUTY SWITCHES SHALL BE PERMITTED.
 - FUSES LESS THAN 60A SHALL BE CLASS RK5, DUAL-ELEMENT, TIME-DELAY WITH INDICATION.
 - FUSES GREATER THAN 60A SHALL BE CLASS J, DUAL-ELEMENT, TIME-DELAY WITH INDICATION.
 - A SET OF 3 SPARE FUSES OF EACH SIZE AND TYPE SHALL BE FURNISHED TO THE OWNER.
 - ALL ELECTRICAL EQUIPMENT ENCLOSURES IN POOL EQUIPMENT ROOM, CHLORINE, AND ACID ROOMS SHALL BE NEMA-4X STAINLESS STEEL OR NON-METALLIC, WET-LOCATION LISTED AND LISTED TO RESIST CORROSION FROM POOL CHEMICALS.
- PANELBOARDS:**
 - PANELBOARDS EXISTING.
 - ALL BUSSING, INCLUDING NEUTRAL AND GROUND, SHALL BE COPPER.
 - ALL BREAKERS SHALL BE AUTOMATIC THERMAL-MAGNETIC TYPE MOLDED CASE BOLT-ON TYPE, CALIBRATED FOR 40 DEGREE C, OR AMBIENT COMPENSATION, UNLESS OTHERWISE NOTED.
 - PANELS SHALL BE FULLY RATED (AIC), NO SERIES AIC RATINGS ARE ALLOWED.
 - PANELS SHALL HAVE FULL SIZE EQUIPMENT GROUNDING BARS AND NEUTRAL BARS, EXCEPT WHERE INDICATED TO BE 200%.
 - ALL PANELBOARD AND BREAKER LUGS SHALL BE SIZED AND RATED PER THE CONDUCTOR SIZE AND MATERIAL.
 - BREAKERS USED FOR HEATING, AIR-CONDITIONING AND/OR REFRIGERATION SHALL BE FULLY RATED.
 - GROUND-FAULT CIRCUIT INTERRUPTER (GFCI) PROTECTION FOR PERSONNEL SHALL BE PROVIDED FOR ALL LOCATIONS PER NEC 210.8, INSTALLED IN A READILY ACCESSIBLE LOCATION, WHERE A DEVICE LOCATION IS NOT ACCESSIBLE, THE GFCI PROTECTION SHALL BE PROVIDED WITH THE BREAKER SERVING THE DEVICE.
 - ALL PANELBOARDS SHALL HAVE METAL DIRECTORY FRAME. FOR EACH PANELBOARD, PROVIDE TYPED CIRCUIT DIRECTORY PER NEC 408.4. SPARE CIRCUIT BREAKERS SHALL BE LABELED SPARE AND IN THE OFF POSITION.
- FIRE ALARM SYSTEM:**
 - SYSTEM SHALL BE A CENTRALIZED, ANALOG, ADDRESSABLE, FULLY ELECTRONICALLY SUPERVISED (INCLUDING AUXILIARY SYSTEMS INTERCONNECT WIRING SYSTEM LISTED BY UL IN COMPLIANCE WITH ALL APPLICABLE NFPA 72 AND OTHER STANDARDS AS WELL AS THE AMERICAN'S WITH DISABILITIES ACT (ADA). ALL FINAL CONNECTIONS, TESTING AND ADJUSTMENTS SHALL BE PERFORMED BY OR UNDER DIRECT SUPERVISION OF AN AUTHORIZED FACTORY REPRESENTATIVE. SYSTEM SHALL BE NOTIFIER NFC-50/700, EST, FIRE-LEI ECC-50/700 OR APPROVED EQUAL AS ACCEPTED BY THE ENGINEER. SYSTEM SHALL HAVE A 24HR MINIMUM BATTERY BACKUP.
 - INITIATING DEVICE ACTIVATION SHALL CAUSE OPERATION OF THE PROPER ALARM CIRCUIT IN THE CONTROL PANEL AND OPERATE ALL AUDIBLE AND VISUAL INDICATING ALARMS. ALL AIR HANDLING UNITS SHALL BE STOPPED UPON ANY ALARM INPUT. EACH AIR HANDLER UNIT SHALL BE PROVIDED WITH A SYSTEM CONTROLLED RELAY TO EFFECT SHUTDOWN. ALL ALARM DEVICES AND LAMPS SHALL CONTINUE TO OPERATE UNTIL THE INITIATING DEVICE IS RESET. SUBSEQUENT ALARMS SHALL RESOUND THE SYSTEM. AN AUDIBLE AND VISUAL SIGNAL SHALL INDICATE SYSTEM TROUBLE. THE CONTROL PANEL SHALL PROVIDE FOR AN AUDIO/ALARM LISTED CENTRAL STATION SIGNAL FOR NOTIFYING THE FIRE DEPARTMENT.
 - MANUAL STATIONS SHALL BE NON-CODED, WITH FULL LEVEL SINGLE ACTION, SEMI-FLUSH MOUNTED, COMBINATION LIGHT AND AUDIO SIGNAL SHALL BE FLUSH MOUNTED. WIRING SHALL BE IN CONDUIT AS PREVIOUSLY SPECIFIED, #14 AWG MINIMUM, THHN. ALL 1-BOXES USED FOR THE FIRE ALARM SYSTEM SHALL BE PAINTED RED.
 - CONDUCTORS SHALL BE PLENUM RATED AND INSTALLED IN CONDUIT AND INSTALLED IN COMPLIANCE WITH NFPA 70, ARTICLE 760. IN ADDITION TO WIRING METHODS 300.4.
 - ALL FIRE ALARM WIRING SHALL BE CLASS B.
 - PROVIDE ALL REQUIRED MODULES, POWER EXTENDERS, PROGRAMMING, ETC. FOR A COMPLETE AND OPERATIONAL SYSTEM.
 - SUBMIT FIRE ALARM SHOP DRAWINGS CONSISTING OF PRODUCT DATA, TO THE ENGINEER AND FOR APPROVAL.
 - FILL OUT NFPA 72 CERTIFICATION REPORT AND SUBMIT TO ENGINEER AND AUTHORITY HAVING JURISDICTION PRIOR TO FINAL INSPECTIONS.
 - WARRANTY - ALL WORK PERFORMED AND ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT SHALL BE FREE FROM DEFECTS AND SHALL REMAIN SO FOR A PERIOD OF AT LEAST TWO (2) YEARS FROM THE DATE OF ACCEPTANCE BY THE PROFESSIONAL ENGINEER AND/OR OWNER. THE FULL COST OF MAINTENANCE, LABOR, AND MATERIALS REQUIRED TO CORRECT ANY DEFECT DURING THIS TWO YEAR PERIOD SHALL BE IMMEDIATELY CORRECTED AT NO ADDITIONAL COST TO THE OWNER. ANY DEFECTS THAT RENDER THE SYSTEM INOPERATIVE SHALL BE REPAIRED WITHIN 24 HOURS OF THE OWNER NOTIFYING THE CONTRACTOR. OTHER DEFECTS SHALL BE REPAIRED WITHIN 48 HOURS OF THE OWNER NOTIFYING THE CONTRACTOR.
 - PROVIDE ALL REPROGRAMMING AND/OR REWORK AND/OR REPLACEMENT OF EXISTING FIRE ALARM PANEL AS REQUIRED.
- FIRE STOPPING:**
 - ALL PENETRATIONS OF RATED ASSEMBLIES SHALL BE SEALED WITH RATED MATERIALS MEETING ASTM E-814.
 - PROVIDE FIRESTOPPING DEVICE(S) OR SYSTEM(S) WHICH HAVE BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814. INSTALL THE DEVICE(S) OR SYSTEM(S) IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING. PROVIDE THE APPROPRIATE DEVICE(S) OR SYSTEM(S) WITH AN "F" RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED.
 - DEVICE(S) AND/OR SYSTEM(S) SHALL BE BY HILTI, 3M OR EQUIVALENT.
- ELECTRICAL COORDINATION WITH OTHER TRADES:**
 - THE ELECTRICAL CONTRACTOR SHALL CONNECT AND/OR PROVIDE FINAL CONNECTIONS TO ALL EQUIPMENT SUPPLIED BY OTHERS APPLICABLE TO THE PROJECT, INCLUDING BUT NOT LIMITED TO, MECHANICAL, PLUMBING, FIRE PROTECTION AND SUPPRESSION, OWNER FURNISHED, KITCHEN, LABORATORY, ETC. UNLESS OTHERWISE NOTED.
 - THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONNECTIONS PRIOR TO ROUGH-IN USING APPROVED CATALOG SHEETS AND SHOP DRAWINGS.
 - THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANUAL MOTOR STARTER SWITCHES, DISCONNECT SWITCHES, RECEPTACLES, ETC. TO MECHANICAL AND PLUMBING EQUIPMENT. ALL STARTERS, OTHER THAN MANUAL STARTER SWITCHES, SHALL BE PROVIDED BY OTHERS, BUT INSTALLED BY THE ELECTRICAL CONTRACTOR.
 - ALL DISCONNECT SWITCHES AND FUSE SIZES SHALL BE COORDINATED WITH SHOP DRAWINGS PRIOR TO ORDERING OR INSTALLING. ANY EQUIPMENT INSTALLED INCORRECTLY BECAUSE OF LACK OF COORDINATION WILL BE REMOVED AND INSTALLED CORRECTLY AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.
 - THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CONDUIT RUNS AND LIGHT FIXTURE LOCATIONS ABOVE THE CEILING WITH OTHER TRADES PRIOR TO INSTALLATION.
 - ALL DUCT SMOKE DETECTORS SHALL BE PROVIDED AND CONNECTED BY THE ELECTRICAL CONTRACTOR, BUT INSTALLED BY THE MECHANICAL CONTRACTOR.
 - THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY OUTLETS FOR HEAT TAPE CONNECTIONS FOR MECHANICAL SYSTEMS. PROVIDE CLASS B (30mA) GFCI PROTECTION ON THE BREAKER SUPPLYING THE HEAT TAPE.
 - THE ELECTRICAL CONTRACTOR SHALL PROVIDE 120V POWER AT EACH HVAC UNIT HAVING A CONTROL POWER SUPPLY. CIRCUITS SHALL BE DEDICATED 20A SERVING A MAXIMUM OF 05 HVAC UNITS PER CIRCUIT. COORDINATE ALL LOCATIONS WITH THE MECHANICAL CONTRACTOR.
- DEMOLITION NOTES:**
 - WHERE INCLUDED AS PART OF THE CONTRACT DOCUMENTS, THE DRAWINGS INDICATE THE GENERAL AREAS OF WORK INVOLVED. HOWEVER, THE ELECTRICAL CONTRACTOR SHALL PERFORM WORK OUTSIDE THOSE AREAS SHOWN AS IS NECESSARY TO COMPLY WITH THE INTENT OF THIS SECTION.
 - THE ELECTRICAL CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE EXISTING BUILDING AND WITH THE WORK OF ALL OTHER TRADES AND INCLUDE ALL WORK NECESSARY TO COMPLY WITH THE INTENT OF THE DEMOLITION.

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

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95/17/2023

FORT MILL SCHOOL DISTRICT
H09-0611-1PG
NATION FORD ALTERNATIVE SCHOOL
MODULAR
FORT MILL, SC

SHEET ISSUE:	NO.	DATE	DESCRIPTION	BY
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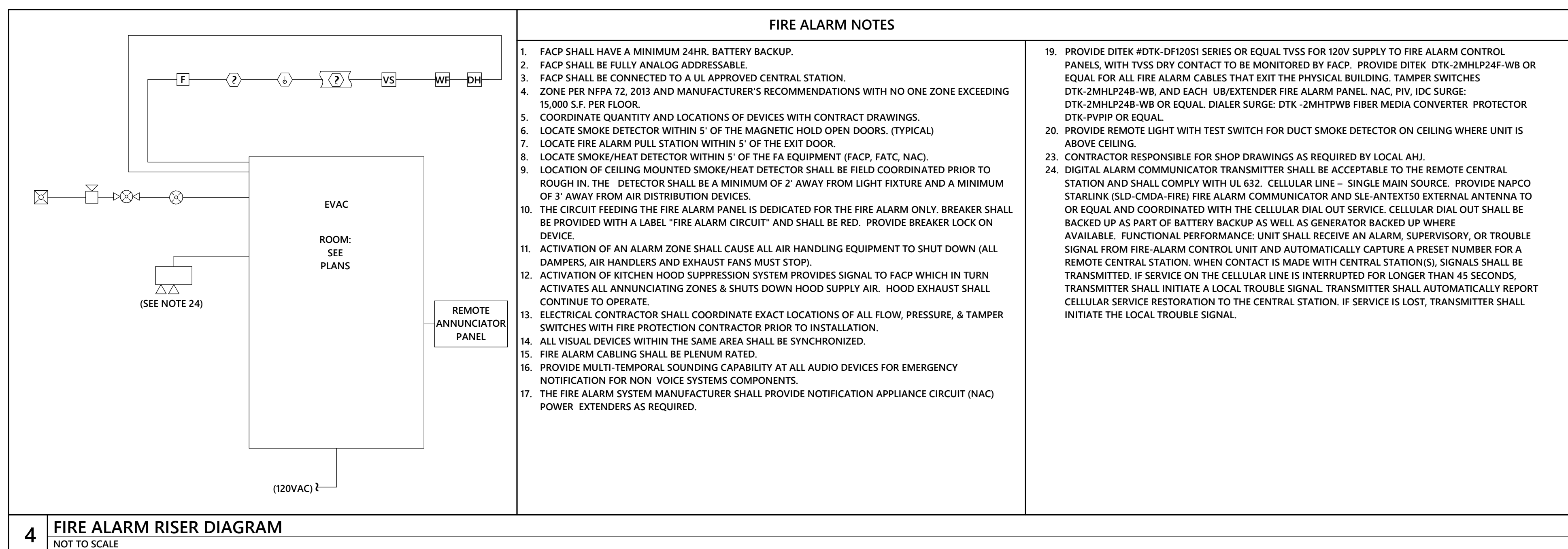
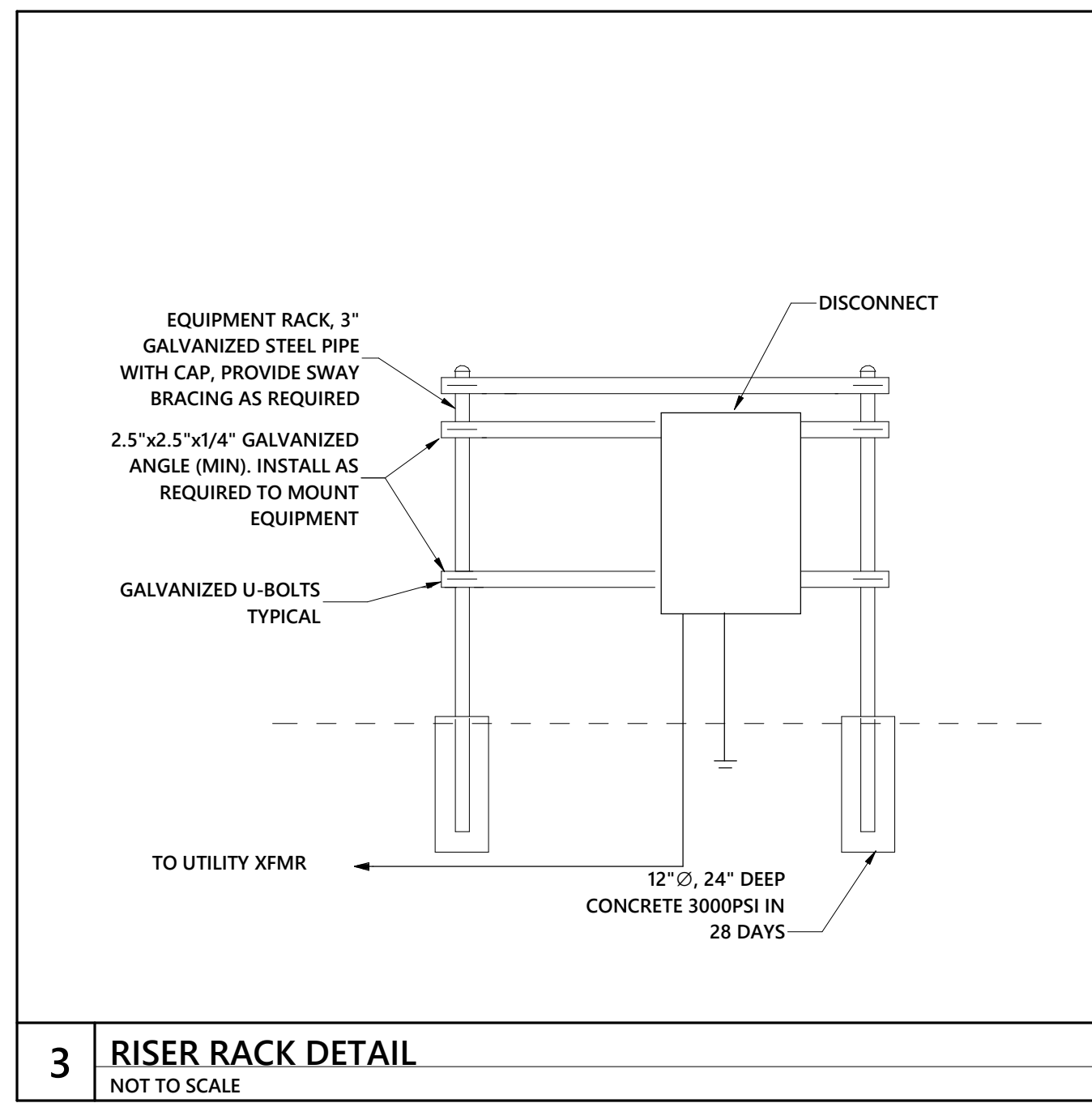
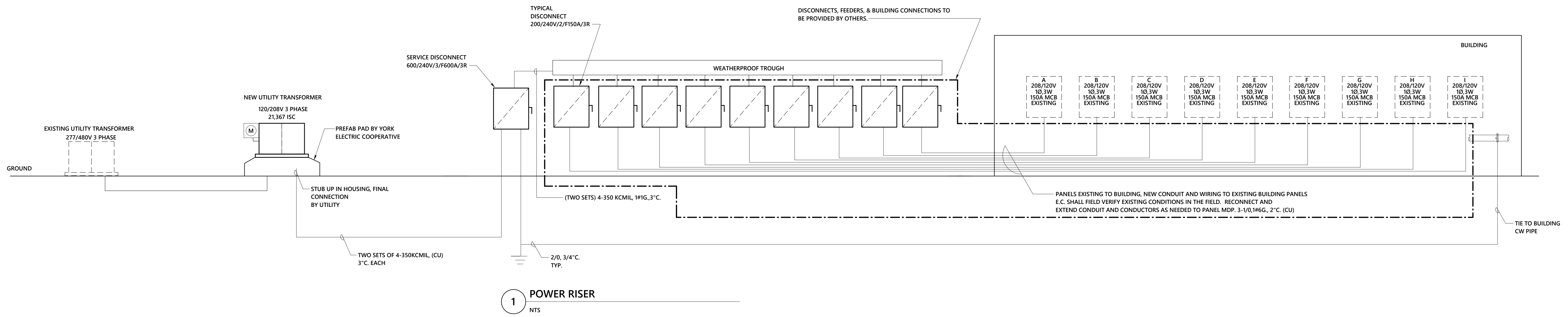
CD SET 04.20.2023

PRINCIPAL IN CHARGE: GBT
PROJECT ARCHITECT: CAB
DRAWN BY: WD

SHEET TITLE:
ELECTRICAL LEGEND AND NOTES

SHEET NO. E001

PROJ. NO. 023142.00
DATE: 07/14/2023
23:10:05



FIRE ALARM SYSTEM MATRIX	BUILDING SYSTEM OUTPUTS									
	ACTIVE COMMON ALARM SIGNAL INDICATOR	ACTIVE COMMON ALARM SIGNAL INDICATOR	ACTIVE COMMON ALARM SIGNAL INDICATOR	ACTIVE COMMON ALARM SIGNAL INDICATOR	ACTIVE COMMON ALARM SIGNAL INDICATOR	ACTIVE COMMON ALARM SIGNAL INDICATOR	ACTIVE COMMON ALARM SIGNAL INDICATOR	ACTIVE COMMON ALARM SIGNAL INDICATOR	ACTIVE COMMON ALARM SIGNAL INDICATOR	ACTIVE COMMON ALARM SIGNAL INDICATOR
MANUAL FIRE ALARM PULL BOXES	X	X								
DUCT SMOKE DETECTOR	X	X	X	X	X	X	X	X	X	X
AREA HEAT DETECTOR	X	X	X	X	X	X	X	X	X	X
NOTIFICATION DEVICE SHORT CIRCUIT			X	X	X	X	X	X	X	X
OPEN CIRCUIT			X	X	X	X	X	X	X	X
GROUND FAULT			X	X	X	X	X	X	X	X
FIRE ALARM A.C. POWER FAILURE			X	X	X	X	X	X	X	X
FIRE ALARM SYSTEM LOW BATTERY			X	X	X	X	X	X	X	X
5 FIRE ALARM MATRIX NOT TO SCALE										

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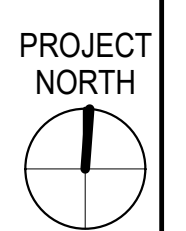
FORT MILL SCHOOL DISTRICT
H09-9611-PG
**NATION FORD ALTERNATIVE SCHOOL
MODULAR**
FORT MILL, SC

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY

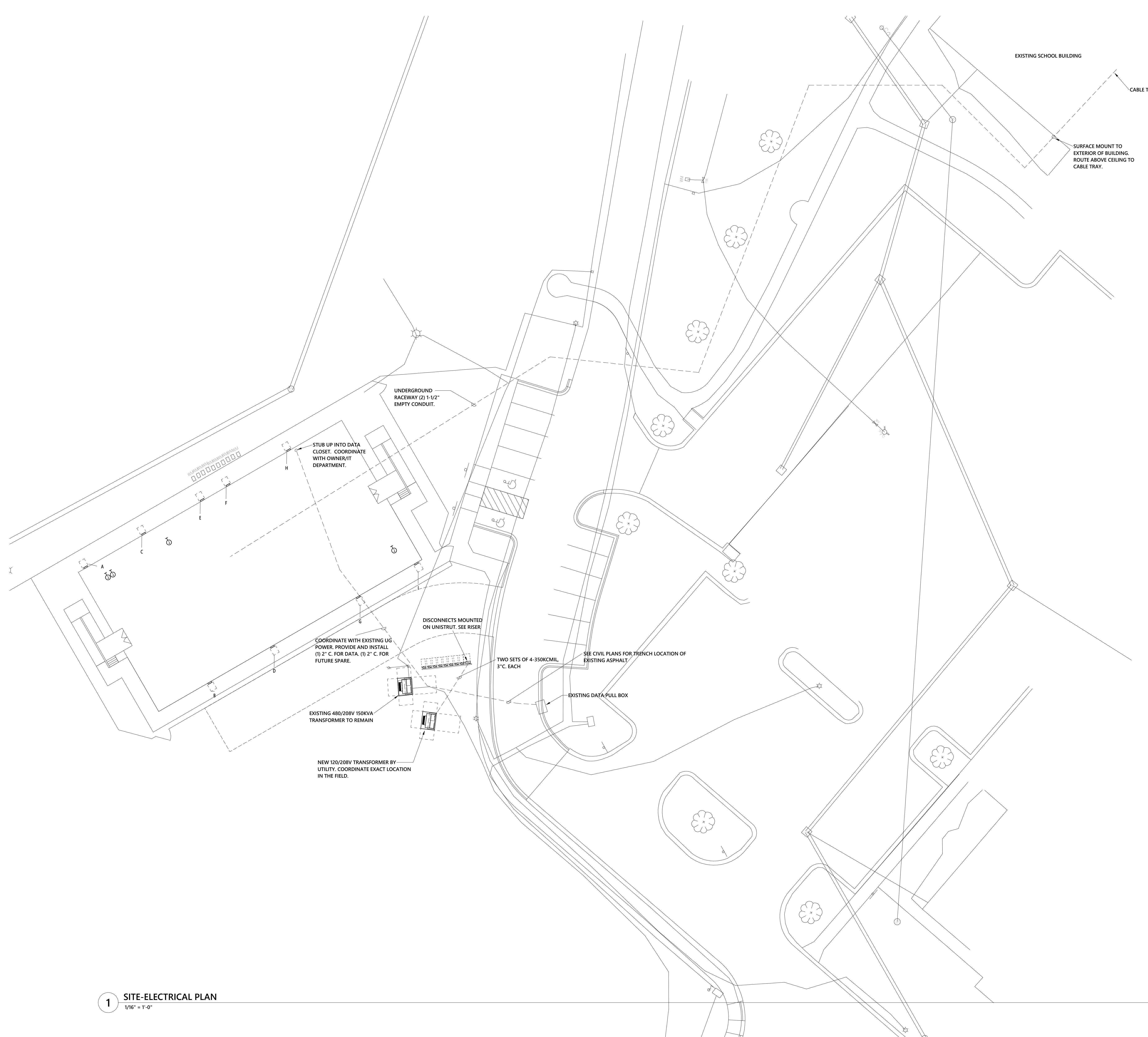
CD SET	04.20.2023
PRINCIPAL IN CHARGE:	GBT
PROJECT ARCHITECT:	CAB
DRAWN BY:	WD

SHEET TITLE:
**ELECTRICAL SITE
PLAN**

SHEET NO.	PROJ. NO.
	023142.00
	OPTIMA #
	234105



E101



1 SITE-ELECTRICAL PLAN
1/16" = 1'-0"

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PANEL: A

VOLTAGE: 120/240 1Ø
MOUNTING: SURFACE
ENCLOSURE: NEMA1
MAIN: 225 A

MAIN TYPE: MCB
PHASE: 1
WIRE: 3

FED FROM: TROUGH
MFR: TYPE: AIC: 10 KAIC

LC ABr	Load Served	Wire	Tripp	Ckt No	Pole	A	B	Pole	Ckt No	Tripp	Wire	Load Served	LC ABr
COO LING	HVAC	4	60 A	1	2	5.25	1.44	1	2	15 A	12	LIGHTS	LIG...
				3				1	4	20 A	12	RECEPTACLES	RE...
				5		1.44		1	6	20 A	12	RECEPTACLES	RE...
				7				1	8	15 A	12	LIGHTS	LIG...

LOAD	Connected Load	Demand Factor	Estimated Demand	NOTES:
L LIGHTS	2.88 kVA	125.00%	3.60 kVA	1. PANEL, BREAKERS AND LOADS EXISTING TO BUILDING.
H HEATING	0.00 kVA	0.00%	0.00 kVA	
C COOLING	10.50 kVA	100.00%	10.50 kVA	
V VENTILATION	0.00 kVA	0.00%	0.00 kVA	
M MOTORS	0.00 kVA	0.00%	0.00 kVA	
R RECEPTACLES	2.88 kVA	100.00%	2.88 kVA	
WH WATER HEATER	0.00 kVA	0.00%	0.00 kVA	
S Spare	0.00 kVA	0.00%	0.00 kVA	
TOTAL KVA...	16.26 kVA	TOTAL PER PHASE: (CONNECTED)		
TOTAL KVA (DEMAND):	16.98 kVA	67.8 A	67.8 A	

TOTAL AMP: 68 A
TOTAL AMP (DEMAND): 71 A

PANEL: B

VOLTAGE: 120/240 1Ø
MOUNTING: SURFACE
ENCLOSURE: NEMA1
MAIN: 225 A

MAIN TYPE: MCB
PHASE: 1
WIRE: 3

FED FROM: TROUGH
MFR: TYPE: AIC: 10 KAIC

LC ABr	Load Served	Wire	Tripp	Ckt No	Pole	A	C	Pole	Ckt No	Tripp	Wire	Load Served	LC ABr
COO LING	COOLING	4	60 A	1	2	5.05	1.44	1	2	15 A	12	LIGHTS	LIG...
				3				1	4	20 A	12	RECEPTACLES	RE...
				5		1.60		1	6	20 A	12	RECEPTACLES	RE...
				7				1	8				

LOAD	Connected Load	Demand Factor	Estimated Demand	NOTES:
L LIGHTS	1.44 kVA	125.00%	1.80 kVA	1. PANEL, BREAKERS AND LOADS EXISTING TO BUILDING.
H HEATING	0.00 kVA	0.00%	0.00 kVA	
C COOLING	10.10 kVA	100.00%	10.10 kVA	
V VENTILATION	0.00 kVA	0.00%	0.00 kVA	
M MOTORS	0.00 kVA	0.00%	0.00 kVA	
R RECEPTACLES	1.60 kVA	100.00%	1.60 kVA	
WH WATER HEATER	0.00 kVA	0.00%	0.00 kVA	
S Spare	0.00 kVA	0.00%	0.00 kVA	
TOTAL KVA...	13.14 kVA	TOTAL PER PHASE: (CONNECTED)		
TOTAL KVA (DEMAND):	13.50 kVA	54.1 A	0.0 A	

TOTAL AMP: 55 A
TOTAL AMP (DEMAND): 56 A

PANEL: C

VOLTAGE: 120/240 1Ø
MOUNTING: SURFACE
ENCLOSURE: NEMA1
MAIN: 225 A

MAIN TYPE: MCB
PHASE: 1
WIRE: 3

FED FROM: TROUGH
MFR: TYPE: AIC: 10 KAIC

LC ABr	Load Served	Wire	Tripp	Ckt No	Pole	A	B	Pole	Ckt No	Tripp	Wire	Load Served	LC ABr
COO LING	COOLING	4	60 A	1	2	5.05	1.44	1	2	15 A	12	LIGHTS	LIG...
				3				1	4	20 A	12	RECEPTACLES	RE...
				5		1.60		1	6	20 A	12	RECEPTACLES	RE...
				7				1	8				

LOAD	Connected Load	Demand Factor	Estimated Demand	NOTES:
L LIGHTS	1.44 kVA	125.00%	1.80 kVA	1. PANEL, BREAKERS AND LOADS EXISTING TO BUILDING.
H HEATING	0.00 kVA	0.00%	0.00 kVA	
C COOLING	10.10 kVA	100.00%	10.10 kVA	
V VENTILATION	0.00 kVA	0.00%	0.00 kVA	
M MOTORS	0.00 kVA	0.00%	0.00 kVA	
R RECEPTACLES	3.20 kVA	100.00%	3.20 kVA	
WH WATER HEATER	0.00 kVA	0.00%	0.00 kVA	
S Spare	0.00 kVA	0.00%	0.00 kVA	
TOTAL KVA...	14.74 kVA	TOTAL PER PHASE: (CONNECTED)		
TOTAL KVA (DEMAND):	15.10 kVA	67.4 A	55.4 A	

TOTAL AMP: 61 A
TOTAL AMP (DEMAND): 63 A

PANEL: D

VOLTAGE: 120/240 1Ø
MOUNTING: SURFACE
ENCLOSURE: NEMA1
MAIN: 225 A

MAIN TYPE: MCB
PHASE: 1
WIRE: 3

FED FROM: TROUGH
MFR: TYPE: AIC: 10 KAIC

LC ABr	Load Served	Wire	Tripp	Ckt No	Pole	A	C	Pole	Ckt No	Tripp	Wire	Load Served	LC ABr
COO LING	COOLING	4	60 A	1	2	5.05	1.44	1	2	15 A	12	LIGHTS	LIG...
				3				1	4	20 A	12	RECEPTACLES	RE...
				5		5.05	1.60	1	4	20 A	12	RECEPTACLES	RE...
				7				1	6	20 A	12	RECEPTACLES	RE...

LOAD	Connected Load	Demand Factor	Estimated Demand	NOTES:
L LIGHTS	1.44 kVA	125.00%	1.80 kVA	1. PANEL, BREAKERS AND LOADS EXISTING TO BUILDING.
H HEATING	0.00 kVA	0.00%	0.00 kVA	
C COOLING	10.10 kVA	100.00%	10.10 kVA	
V VENTILATION	0.00 kVA	0.00%	0.00 kVA	
M MOTORS	0.00 kVA	0.00%	0.00 kVA	
R RECEPTACLES	1.60 kVA	100.00%	1.60 kVA	
WH WATER HEATER	0.00 kVA	0.00%	0.00 kVA	
S Spare	0.00 kVA	0.00%	0.00 kVA	
TOTAL KVA...	13.14 kVA	TOTAL PER PHASE: (CONNECTED)		
TOTAL KVA (DEMAND):	13.50 kVA	54.1 A	0.0 A	

TOTAL AMP: 55 A
TOTAL AMP (DEMAND): 56 A

PANEL: E

VOLTAGE: 120/240 1Ø
MOUNTING: SURFACE
ENCLOSURE: NEMA1
MAIN: 225 A

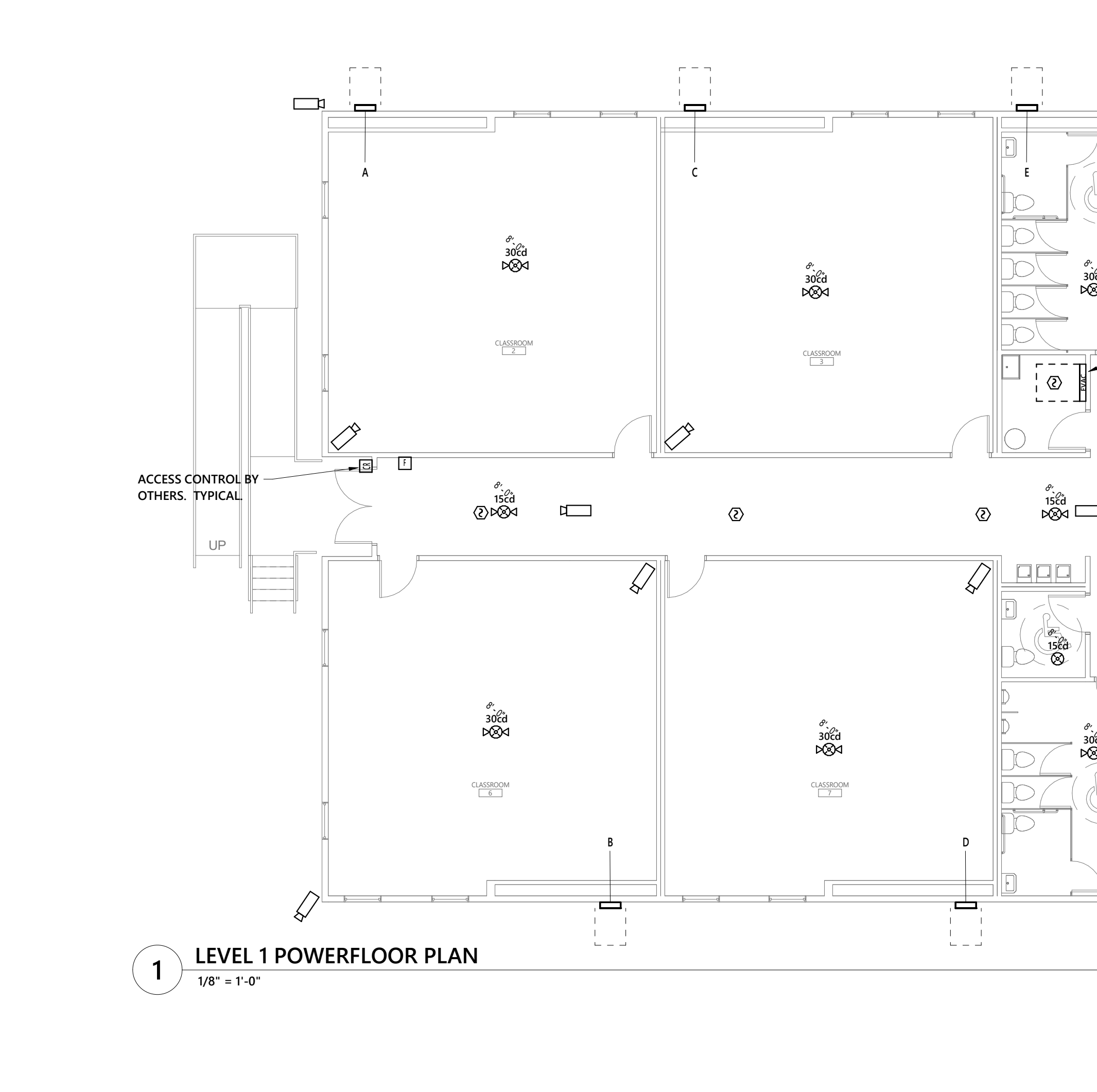
MAIN TYPE: MCB
PHASE: 1
WIRE: 3

FED FROM: TROUGH
MFR: TYPE: AIC: 10 KAIC

LC ABr	Load Served	Wire	Tripp	Ckt No	Pole	A	B	Pole	Ckt No	Tripp	Wire	Load Served	LC ABr
COO LING	COOLING	4	60 A	1	2	5.05	1.22	1	2	15 A	12	LIGHTS	LIG...
				3				1	4	20 A	12	RECEPTACLES	RE...
				5		1.50	1.00	1	4	20 A	12	RECEPTACLES	RE...
				7				1	6	20 A	12	RECEPTACLES	RE...

LOAD	Connected Load	Demand Factor	Estimated Demand	NOTES:
L LIGHTS	1.22 kVA	125.00%	1.53 kVA	1. PANEL, BREAKERS AND LOADS EXISTING TO BUILDING.
H HEATING	0.00 kVA	0.00%	0.00 kVA	
C COOLING	10.10 kVA	100.00%	10.10 kVA	
V VENTILATION	0.00 kVA	0.00%	0.00 kVA	
M MOTORS	0.00 kVA	0.00%	0.00 kVA	
R RECEPTACLES	2.00 kVA	100.00%	2.00 kVA	
WH WATER HEATER	1.50 kVA	100.00%	1.50 kVA	
S Spare	0.00 kVA	0.00%	0.00 kVA	
TOTAL KVA...	14.82 kVA	TOTAL PER PHASE: (CONNECTED)		
TOTAL KVA (DEMAND):	15.13 kVA	0.0 A	73.1 A	

TOTAL AMP: 62 A
TOTAL AMP (DEMAND): 63 A



PANEL: F

VOLTAGE: 120/240 1Ø
MOUNTING: SURFACE
ENCLOSURE: NEMA1
MAIN: 225 A

MAIN TYPE: MCB
PHASE: 1
WIRE: 3

FED FROM: TROUGH
MFR: TYPE: AIC: 10 KAIC

LC ABr	Load Served	Wire	Tripp	Ckt No	Pole	A	B	Pole	Ckt No	Tripp	Wire	Load Served	LC ABr
COO LING	COOLING	4	60 A	1	2	5.05	1.44	1	2	15 A	12	LIGHTS	LIG...
				3				1	4	20 A	12	RECEPTACLES	RE...
				5		5.05	1.60	1	4	20 A	12	RECEPTACLES	RE...
				7				1	6	20 A	12	RECEPTACLES	RE...

LOAD	Connected Load	Demand Factor	Estimated Demand	NOTES:
L LIGHTS	1.44 kVA	125.00%	1.80 kVA	1. PANEL, BREAKERS AND LOADS EXISTING TO BUILDING.
H HEATING	0.00 kVA	0.00%	0.00 kVA	
C COOLING	10.10 kVA	100.00%	10.10 kVA	
V VENTILATION	0.00 kVA	0.00%	0.00 kVA	
M MOTORS	0.00 kVA	0.00%	0.00 kVA	
R RECEPTACLES	1.60 kVA	100.00%	1.60 kVA	
WH WATER HEATER	0.00 kVA	0.00%	0.00 kVA	
S Spare	0.00 kVA	0.00%	0.00 kVA	
TOTAL KVA...	13.14 kVA	TOTAL PER PHASE: (CONNECTED)		
TOTAL KVA (DEMAND):	13.50 kVA	54.1 A	55.4 A	

TOTAL AMP: 55 A
TOTAL AMP (DEMAND): 56 A

PANEL: G

VOLTAGE: 120/240 1Ø
MOUNTING: SURFACE
ENCLOSURE: NEMA1
MAIN: 225 A

MAIN TYPE: MCB
PHASE: 1
WIRE: 3

FED FROM: TROUGH
MFR: TYPE: AIC: 10 KAIC

LC ABr	Load Served	Wire	Tripp	Ckt No	Pole	A	B	Pole	Ckt No	Tripp	Wire	Load Served	LC ABr
COO LING	COOLING	4	60 A	1	2	5.05	1.44	1	2	15 A	12	LIGHTS	LIG...
				3				1	4	20 A	12	RECEPTACLES	RE...
				5		5.05	1.62	1	4	20 A	12	RECEPTACLES	RE...
				7				1	6	20 A	12	RECEPTACLES	RE...

LOAD	Connected Load	Demand Factor	Estimated Demand	NOTES:
L LIGHTS	1.44 kVA	125.00%	1.80 kVA	1. PANEL, BREAKERS AND LOADS EXISTING TO BUILDING.
H HEATING	0.00 kVA	0.00%	0.00 kVA	
C COOLING	10.10 kVA	100.00%	10.10 kVA	
V VENTILATION	0.00 kVA	0.00%	0.00 kVA	
M MOTORS	0.00 kVA	0.00%	0.00 kVA	
R RECEPTACLES	1.62 kVA	100.00%	1.62 kVA	
WH WATER HEATER	0.00 kVA	0.00%	0.00 kVA	
S Spare	0.00 kVA	0.00%	0.00 kVA	
TOTAL KVA...	13.16 kVA	TOTAL PER PHASE: (CONNECTED)		
TOTAL KVA (DEMAND):	13.52 kVA	0.0 A	54.1 A	

TOTAL AMP: 55 A
TOTAL AMP (DEMAND): 56 A

PANEL: H

VOLTAGE: 120/240 1Ø
MOUNTING: SURFACE
ENCLOSURE: NEMA1
MAIN: 225 A

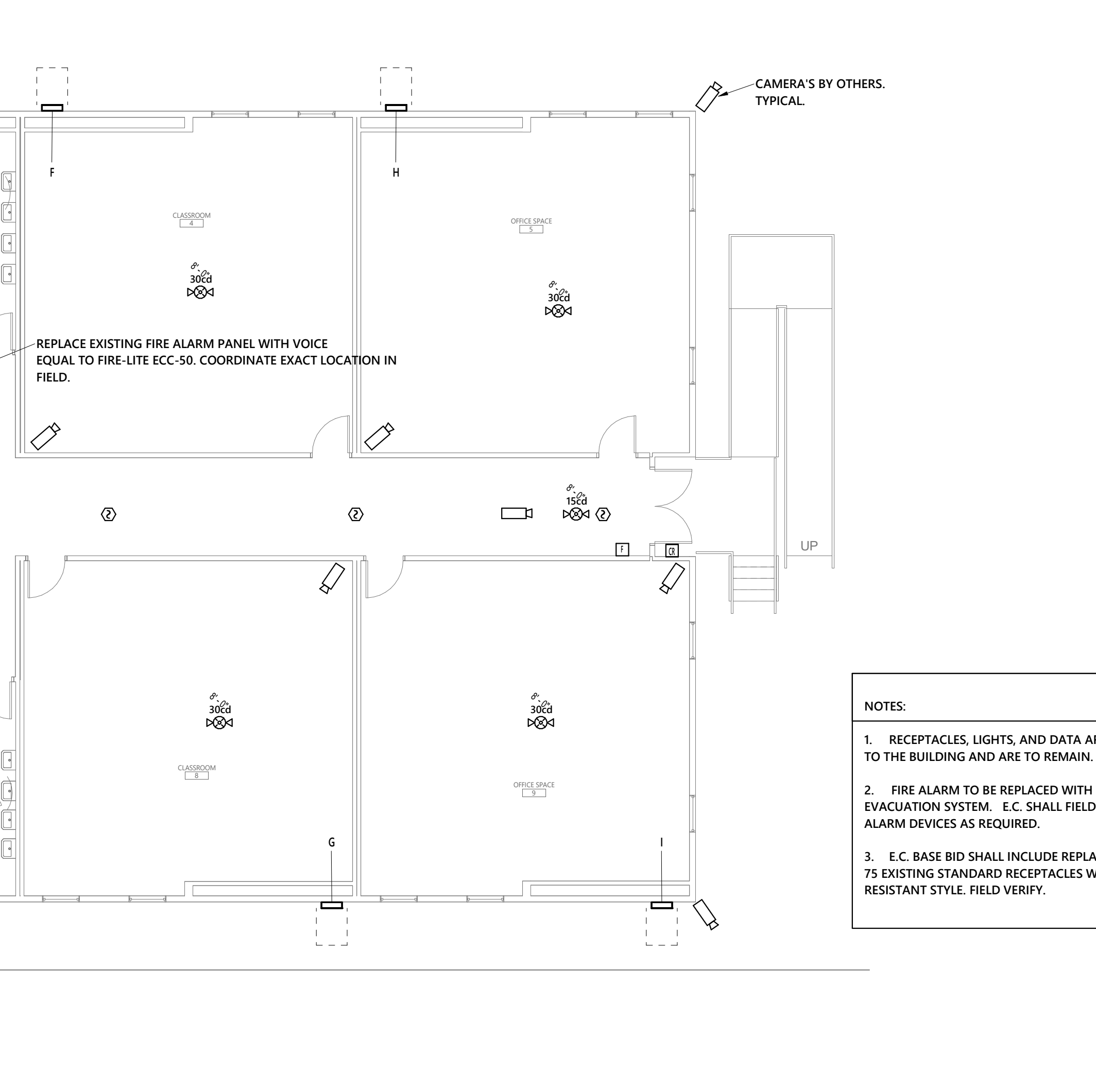
MAIN TYPE: MCB
PHASE: 1
WIRE: 3

FED FROM: TROUGH
MFR: TYPE: AIC: 10 KAIC

LC ABr	Load Served	Wire	Tripp	Ckt No	Pole	A	B	Pole	Ckt No	Tripp	Wire	Load Served	LC ABr
COO LING	COOLING	4	60 A	1	2	5.05	1.44	1	2	15 A	12	LIGHTS	LIG...
				3				1	4	20 A	12	RECEPTACLES	RE...
				5		5.05	1.62	1	4	20 A	12	RECEPTACLES	RE...
				7				1	6	20 A	12	RECEPTACLES	RE...

LOAD	Connected Load	Demand Factor	Estimated Demand	NOTES:
L LIGHTS	1.44 kVA	125.00%	1.80 kVA	1. PANEL, BREAKERS AND LOADS EXISTING TO BUILDING.
H HEATING	0.00 kVA	0.00%	0.00 kVA	
C COOLING	10.10 kVA	100.00%	10.10 kVA	
V VENTILATION	0.00 kVA	0.00%	0.00 kVA	
M MOTORS	0.00 kVA	0.00%	0.00 kVA	
R RECEPTACLES	1.62 kVA	100.00%	1.62 kVA	
WH WATER HEATER	0.00 kVA	0.00%	0.00 kVA	
S Spare	0.00 kVA	0.00%	0.00 kVA	
TOTAL KVA...	13.16 kVA	TOTAL PER PHASE: (CONNECTED)		
TOTAL KVA (DEMAND):	13.52 kVA	54.1 A	55.6 A	

TOTAL AMP: 55 A
TOTAL AMP (DEMAND): 56 A



PANEL: I

VOLTAGE: 120/240 1Ø
MOUNTING: SURFACE
ENCLOSURE: NEMA1
MAIN: 225 A

MAIN TYPE: MCB
PHASE: 1
WIRE: 3

FED FROM: TROUGH
MFR: TYPE: AIC: 10 KAIC

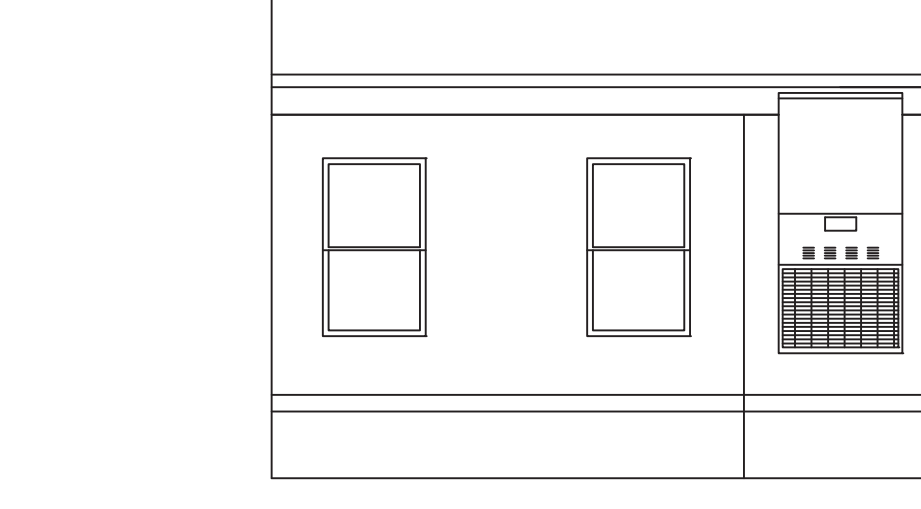
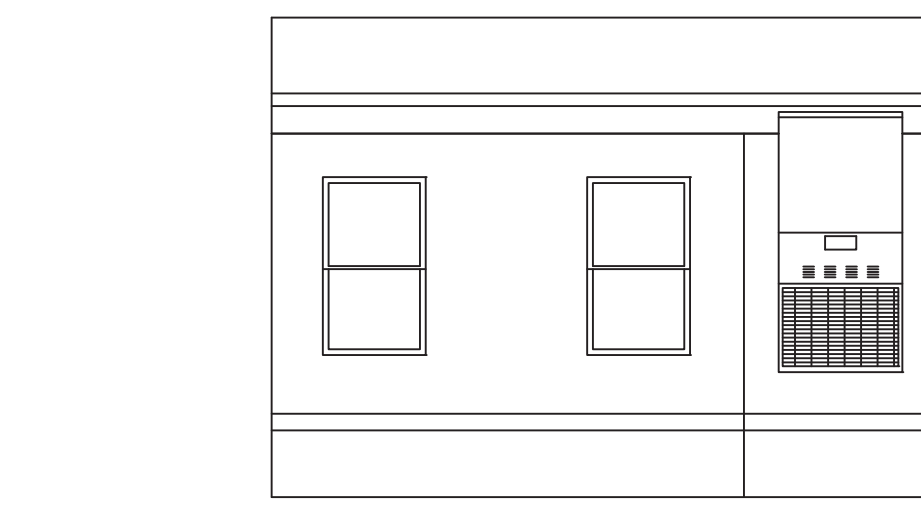
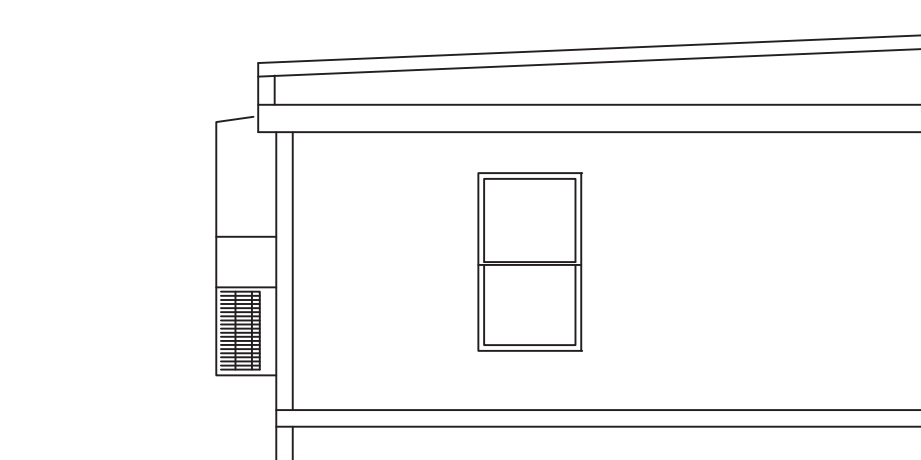
LC ABr	Load Served	Wire	Tripp	Ckt No	Pole	A	C	Pole	Ckt No	Tripp	Wire	Load Served	LC ABr
COO LING	COOLING	4	60 A	1	2	5.05	1.44	1	2	15 A	12	LIGHTS	LIG...
				3				1	4	20 A	12	RECEPTACLES	RE...
				5		1.44	5.05	1	6	15 A	12	RECEPTACLES	RE...
				7				1	8				

MECHANICAL NOTES:

- ALL SUPPLY AIR REGISTERS SHALL BE 24 INCHES x 24 INCHES ADJUSTABLE WITH OVERHEAD FIBERGLASS DUCT (SEE FLOOR PLAN FOR SIZES), UNLESS OTHERWISE SPECIFIED. DUCTS IN UNCONDITIONED SPACES SHALL HAVE R-6 MINIMUM INSULATION AND R-8 INSULATION WHERE LOCATED OUTSIDE THE BUILDING.
- INTERIOR DOORS SHALL BE UNDERCUT 1.5 INCHES ABOVE FINISHED FLOOR FOR AIR RETURN AND/OR AS NOTED ON FLOOR PLAN (FOR UNRAIRED DOORS).
- HVAC EQUIPMENT SHALL BE EQUIPPED W/OUTSIDE FRESH AIR INTAKES PROVIDING 10 CFM PER PERSON & 0.12 CFM PER S.F. BLDG. AREA PER SECTION 403.3 OF THE IBC, MEQ, AND FBC.
- YONT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.
- EXHAUST FANS SHALL PROVIDE A MINIMUM OF 70 CFM FOR EACH WATER CLOSET AND URINAL, AND SHALL VENT NO CLOSER THAN 10 FEET FROM MECHANICAL INTAKE.
- THERMOSTAT MUST BE PROGRAMMABLE.
- HEATING SYSTEM CONTROLS MUST BE CAPABLE OF BEING SET TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM TO MAINTAIN TEMPERATURES ABOVE AN ADJUSTABLE HEATING SETPOINT AT LEAST 10° BELOW THE OCCUPIED HEATING SETPOINT. COOLING SYSTEM CONTROLS MUST BE CAPABLE OF BEING SET TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE MECHANICAL COOLING SYSTEM AS REQUIRED TO MAINTAIN TEMPERATURES BELOW AN ADJUSTABLE COOLING SETPOINT AT LEAST 1° F ABOVE THE OCCUPIED COOLING SET POINT OR TO PREVENT HIGH SPACE HUMIDITY LEVELS.

COMPLIANCE W/LOCAL REQUIREMENTS GA.

RULE 110-2-4-03. ALL INDUSTRIAL BUILDINGS BEARING AN INSIGNIA OF APPROVAL ISSUED BY THE COMMISSIONER PURSUANT TO THESE RULES SHALL BE HELD TO COMPLY WITH THE REQUIREMENTS OF ALL ORDINANCES OR REGULATIONS ENACTED BY ANY LOCAL GOVERNMENT WHICH ARE APPLICABLE TO THE MANUFACTURER AND INSTALLATION OF SUCH BUILDINGS. THE DETERMINATION BY THE COMMISSIONER OF THE SCOPE OF SUCH APPROVAL IS FINAL.



OTHER STATES STRUCTURAL LOAD LIMITATIONS

BUILDING RISK CATEGORY: III

FLOOR LIVE LOAD: 40 PSF, 100 PSF CORRIDOR

ROOF LIVE LOAD: 20 PSF

ROOF SNOW LOAD: 20 PSF

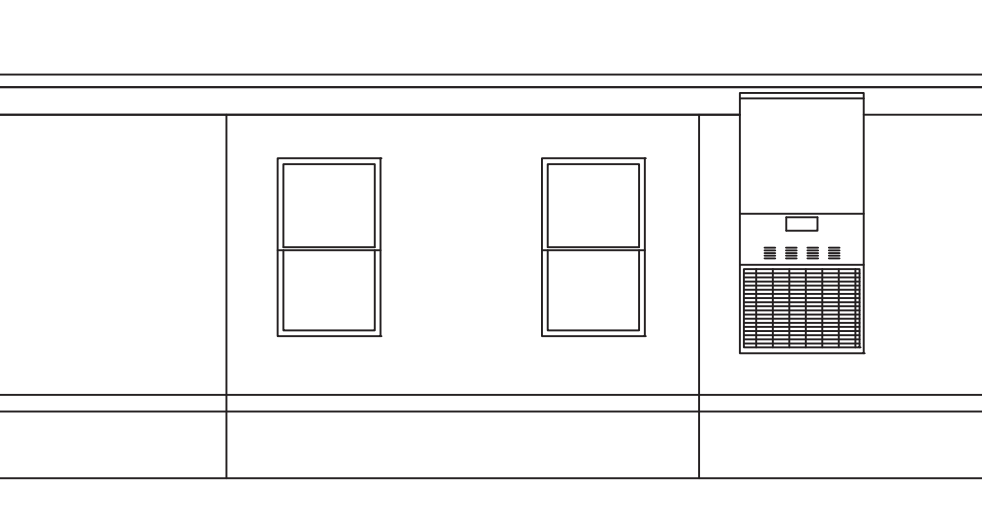
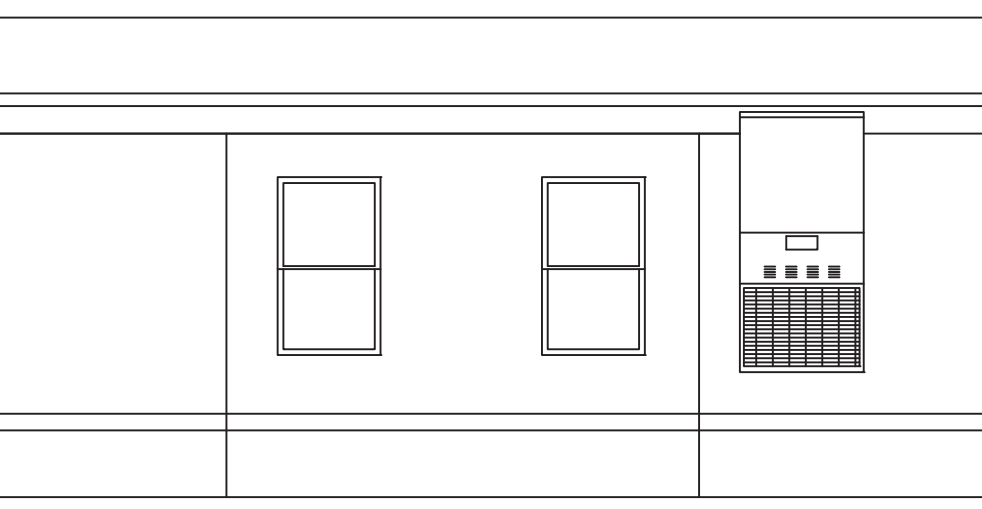
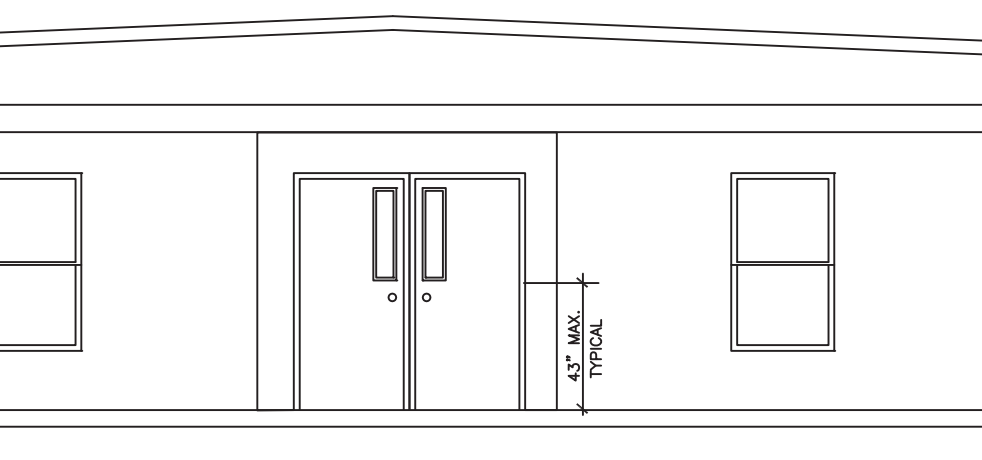
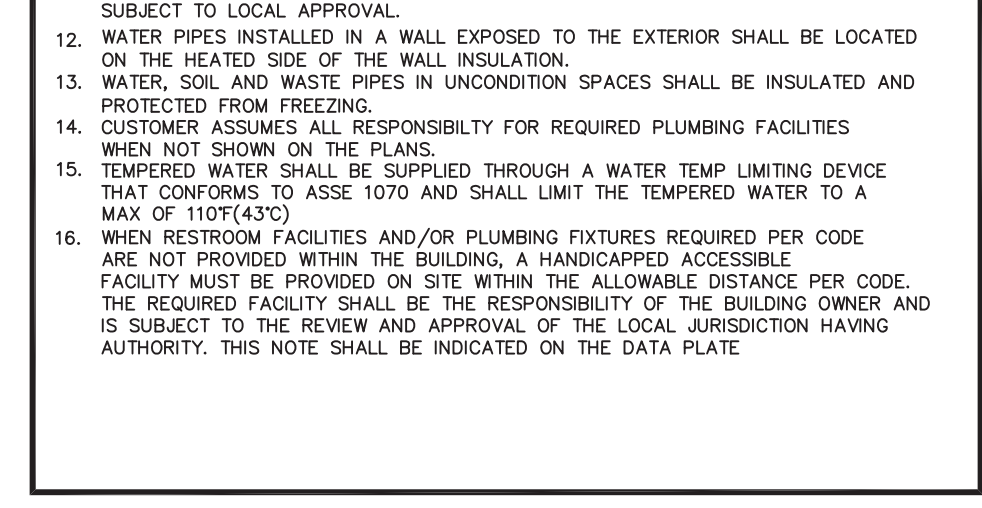
WIND LOAD: 140 MPH WIND

SEISMIC LOAD: 0.125

... (Additional load details for other states)

PLUMBING NOTES:

- TOILETS SHALL BE ELONGATED WITH NONABSORBENT OPEN FRONT SEATS.
- REST ROOM WALLS SHALL BE COVERED WITH NONABSORBENT MATERIAL TO A MINIMUM HEIGHT OF 48 INCHES A.F.F.
- FLOORS SHALL HAVE SMOOTH, HARD, NONABSORBENT SURFACE THAT EXTENDS UPWARD ONTO THE WALLS AT LEAST 6 INCHES.
- THIS UNIT MUST BE CONNECTED TO A PUBLIC WATER SUPPLY AND SEWER SYSTEM IF THESE ARE AVAILABLE.
- ALL PLUMBING FIXTURES SHALL HAVE SEPARATE SHUTOFF VALVES.
- WATER HEATER SHALL HAVE SAFETY PAN WITH 1 INCH DRAIN TO EXTERIOR.
- T & P RELIEF VALVE WITH DRAIN TO EXTERIOR, AND A SHUT OFF VALVE WITHIN 3 FEET ON A COLD WATER SUPPLY LINE.
- DWV SYSTEM SHALL BE EITHER ABS OR PVC - DWV.
- WATER SUPPLY LINES SHALL BE PEX AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS LIMITATIONS AND INSTRUCTIONS.
- WATER CLOSETS ARE TANK TYPE AND URINALS ARE FLUSH TANK TYPE UNLESS OTHERWISE SPECIFIED.
- BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SIE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
- SHOWERS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE WITH A MAXIMUM WATER OUTLET TEMPERATURE OF 120°F (48.9°C).
- THERMAL EXPANSION DEVICE, IF REQUIRED BY WATER HEATER INSTALLED, AND IF NOT SHOWN ON PLUMBING PLAN, IS DESIGNED AND SIE INSTALLED BY OTHERS, SUBJECT TO LOCAL APPROVAL.
- WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION.
- WATER, SOIL AND WASTE PIPES IN UNCONDITION SPACES SHALL BE INSULATED AND PROTECTED FROM FREEZING.
- CUSTOMER ASSUMES ALL RESPONSIBILITY FOR REQUIRED PLUMBING FACILITIES WHEN NOT SHOWN ON THE PLANS.
- TEMPERED WATER SHALL BE SUPPLIED THROUGH A WATER TEMP LIMITING DEVICE THAT CONFORMS TO ASSE 1070 AND SHALL LIMIT THE TEMPERED WATER TO A MAX OF 110°F(43°C).
- WHEN RESTROOM FACILITIES AND/OR PLUMBING FIXTURES REQUIRED PER CODE ARE NOT PROVIDED WITHIN THE BUILDING, A HANDICAPPED ACCESSIBLE FACILITY MUST BE PROVIDED ON SITE WITHIN THE ALLOWABLE DISTANCE PER CODE. THE REQUIRED FACILITY SHALL BE THE RESPONSIBILITY OF THE BUILDING OWNER AND IS SUBJECT TO THE REVIEW AND APPROVAL OF THE LOCAL JURISDICTION HAVING AUTHORITY. THIS NOTE SHALL BE INDICATED ON THE DATA PLATE.



GA, SC, STRUCTURAL LOAD LIMITATIONS:

BUILDING RISK CATEGORY: III

FLOOR DEAD AND LIVE LOAD: 40 PSF, 100 PSF CORRIDORS, 40 PSF ELEMENRE, C. CONCENTRATED LIVE LOAD = 1000 LB OVER 40 SQ INCH AREA LOCATED ANYWHERE ON FLOOR. NOTE: UNIFORM AND CONCENTRATED LIVE LOADS ARE NOT SIMULTANEOUSLY APPLIED.

ROOF DEAD AND LIVE LOAD: 20 PSF

ROOF SNOW LOAD: 20 PSF

WIND LOAD: 140 MPH WIND

SEISMIC LOAD: 0.125

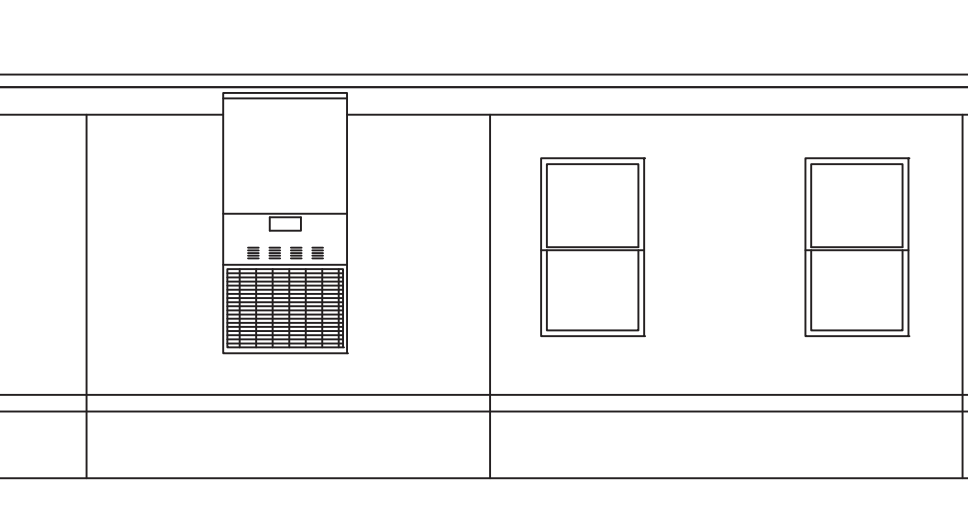
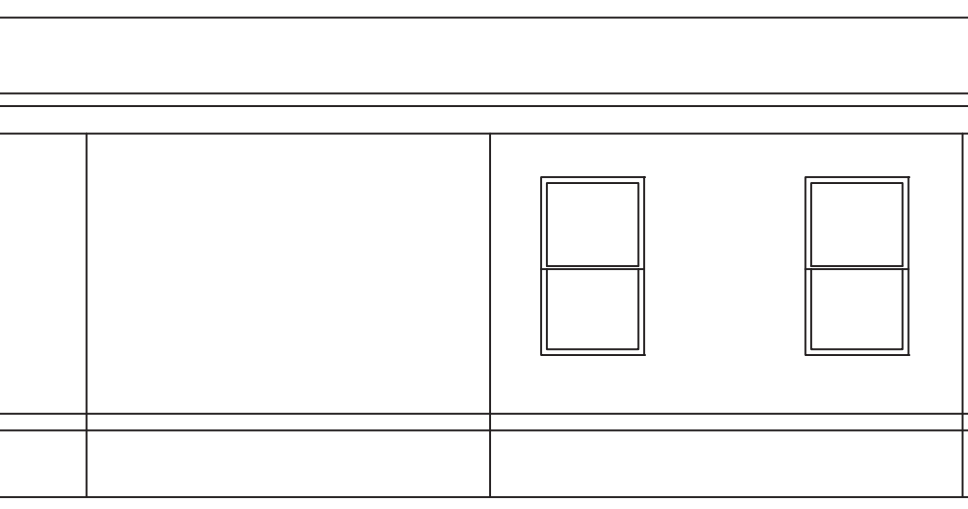
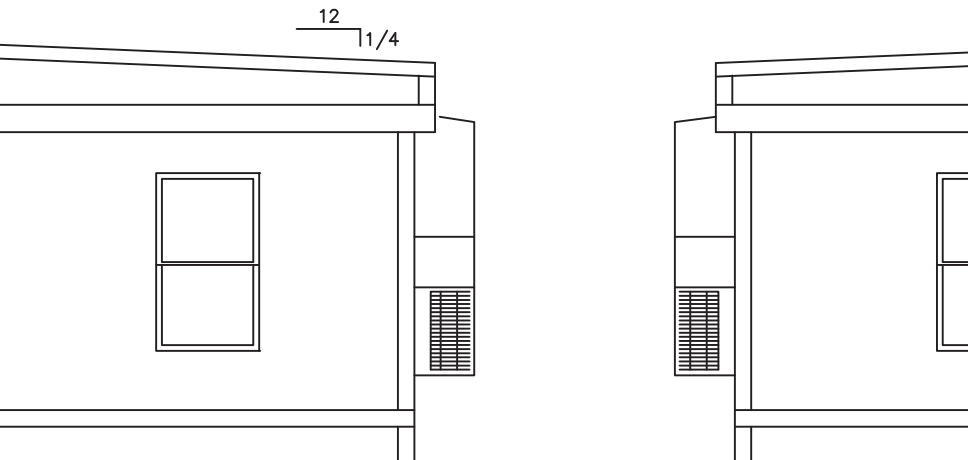
... (Additional load details for GA and SC)

GENERAL NOTES:

- ACCESS TO BUILDING FOR PERSONS IN WHEELCHAIRS IS DESIGNED BY AND FIELD BUILT BY OTHERS AND SUBJECT TO LOCAL JURISDICTION APPROVAL. THE PRIMARY ENTRANCE MUST BE ACCESSIBLE.
- ALL DOORS SHALL BE OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY, TOOL, SPECIAL KNOWLEDGE OR EFFORT. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS SHALL NOT BE USED.
- ALL GLAZING WITHIN A 24 INCH ARC OF DOORS, WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR, AND ALL GLAZING IN DOORS SHALL BE SAFETY, TEMPERED OR ACRYLIC PLASTIC SHEET.
- SEE CROSS SECTION FOR ROOF TO WALL AND WALL TO FLOOR CONNECTIONS AND THE DOWN REQUIREMENTS.
- STRAPPING MUST BE TESTED AND/OR CERTIFIED TO VERIFY THE STRUCTURAL CAPACITY. APPROPRIATE DOCUMENTATION MUST BE ON FILE AT THE MODULAR BUILDING FACTORY.
- WINDOWS AND DOORS MUST BE CERTIFIED FOR COMPLIANCE WITH THE WIND DESIGN PRESSURE FOR COMPONENTS AND GLAZING.
- THIS BUILDING IS DESIGNED FOR NORTH CAROLINA CLIMATE ZONE 3a
- PROVISIONS FOR EXIT DISCHARGE LIGHTING ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SUBJECT TO LOCAL JURISDICTION APPROVAL WHEN NOT SHOWN ON THE FLOOR PLAN (INCLUDING EMERGENCY LIGHTING, WHEN REQUIRED).
- PORTABLE FIRE EXTINGUISHER PER N.F.P.A. - 10 INSTALLED BY OTHERS ON SITE, AND SUBJECT TO LOCAL JURISDICTION.
- IN WIND-BORNE DEBRIS REGIONS, EXTERIOR GLAZING SHALL BE IMPACT RESISTANT OR PROTECTED WITH AN IMPACT RESISTANT COVERING MEETING THE REQUIREMENTS OF AN APPROVED IMPACT RESISTANT STANDARD, OR ASTM F1996. WIND-BORNE DEBRIS REGIONS ARE DESIGNATED IN SECTION 1609 OF THE IBC, FBC AND NBC.
- RESERVED.
- A FIRE ALARM MUST BE SITE INSTALLED BY OTHERS, SUBJECT TO APPROVAL BY AUTHORITY HAVING JURISDICTION.
- FOR NC INSTALLATION, REQUIRED EGRESS WINDOWS SHALL HAVE BOTTOM OF CLEAR OPENING NOT GREATER THAN 44" MEASURED FROM THE FLOOR. FOR CLASSROOMS SERVING 5TH GRADE AND LOWER THE BOTTOM OF THE CLEAR OPENING SHALL NOT BE MORE THAN 32" MEASURED FROM THE FLOOR.

WINDOW & DOOR SPECIFICATIONS

- DBL. PANE WINDOWS ARE REQUIRED FOR ALL CLIMATE ZONES. SEE THE CHECKER ENERGY CALCULATIONS FOR THE MAXIMUM ALLOWED U-FACTOR AND SHGC.
- THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR WINDOWS IS 0.3 CFM PER SQUARE FEET OF WINDOW AREA.
- THE MAXIMUM ALLOWABLE AIR LEAKAGE RATE FOR EXTERIOR DOORS IS 0.3 CFM PER SQUARE FEET OF DOOR AREA.



N.C. INSTALLATION INSTRUCTIONS

ATTENTION LOCAL INSPECTIONS DEPARTMENT

INSTALLATION INSTRUCTIONS FOR THIS MODULAR BUILDING ARE INCLUDED BY ATTACHMENT TO THESE PLANS. ANY PLANS SET WHICH DOES NOT CONTAIN AN ATTACHMENT ENTITLED "INSTALLATION INSTRUCTIONS" IS INCOMPLETE. REFER TO THE FOLLOWING SECTIONS OF THE PLAN SET AND INSTALLATION FOR IMPORTANT INFORMATION CONCERNING THE INSTALLATION OF THE MODULAR BUILDING.

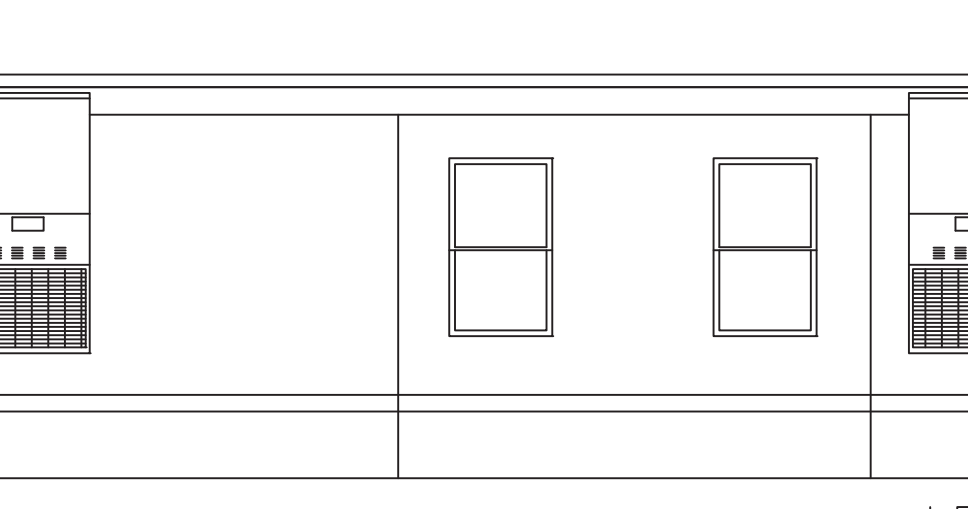
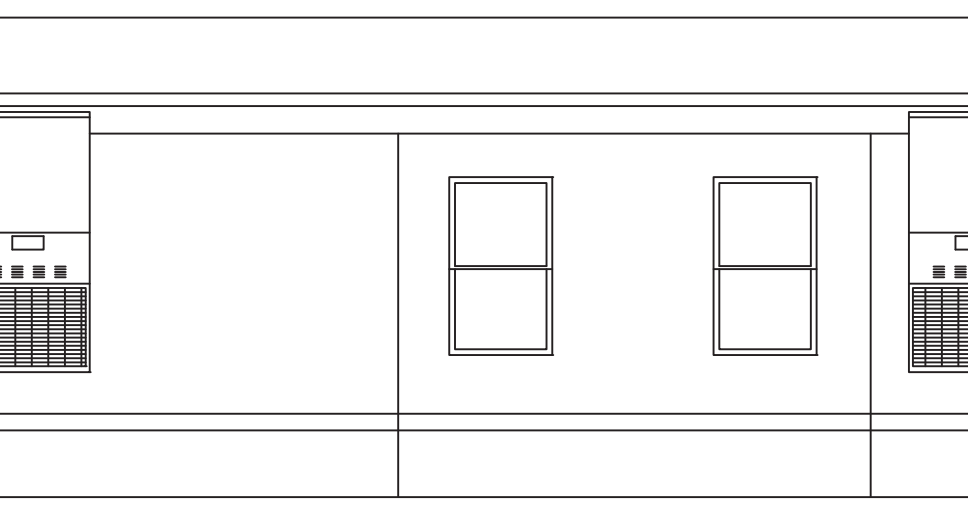
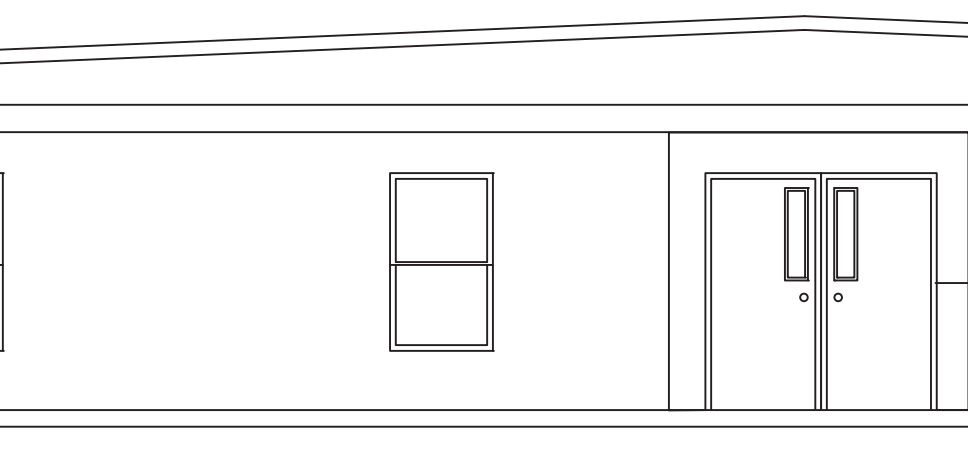
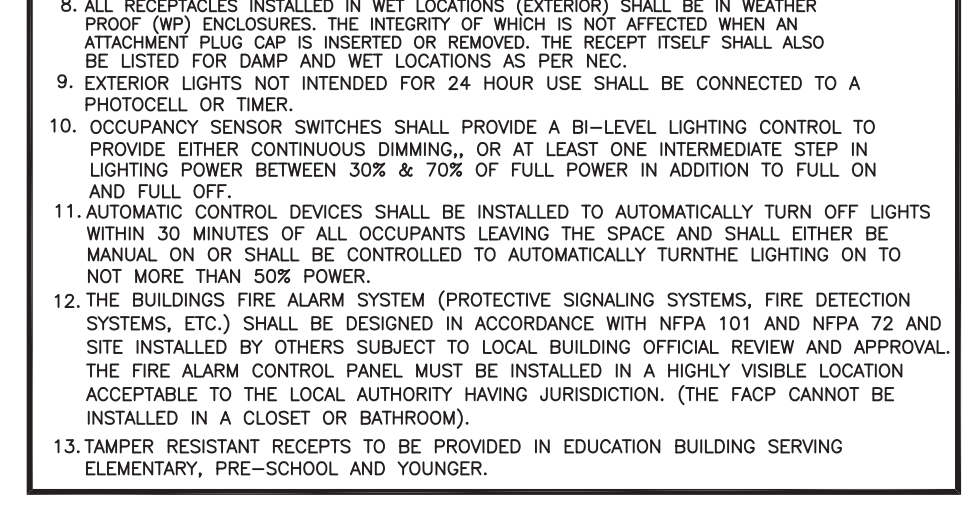
- THE INTERCONNECTION BETWEEN BUILDING MODULES AT THE FLOOR AND ROOF SHALL BE SPECIFIED ON THE CROSS SECTION DRAWING ON THE PLAN SET.
- BUILDING THE DOWN AND ANCHORAGE REQUIREMENTS ARE AS INDICATED ON FOUNDATION PLAN.
- ELECTRICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES IM2 AND IM3 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
- MECHANICAL INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES IM4 AND IM5 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
- PLUMBING INTERCONNECTIONS BETWEEN BUILDING MODULES SHALL BE PER PAGES IM6 AND IM7 OF THE INSTALLATION INSTRUCTIONS (IF APPLICABLE).
- FIRE BLOCKING SHALL BE PROVIDED PER SECTION 717.2 AND 1406.2.3 OF THE IBC BUILDING CODE (AS APPLICABLE).
- AIR INFILTRATION AT MODULE MATE LINES SHALL BE LIMITED BY INSTALLING SILL TAPE ALONG THE MATE LINES DURING SET UP AND/OR BY INSTALLING CONTINUOUS SEALING ACROSS THE MATE LINE JOINTS AFTER SET UP.

FOUNDATION ENCLOSURE (WHEN PROVIDED) MUST HAVE 1" SQUARE FOOT NET VENT AREA PER 175 SQ FT OF THE FLOOR AREA AND AN 18" X 24" MINIMUM CROSS SPACE ACCESS. SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION.

ELEVATIONS SHOWN ON THIS PAGE REPRESENT BASIC COMPONENTS & ARE NOT INTENDED TO BE ALL INCLUSIVE. SEE THESE ELEVATIONS DETAIL EVERY CODE REQUIRED ASPECT OF THIS BLDG. SITE BUILT STOPS, STEPS, DECKS, PORCHES, HANDRAILS AND/OR SIMILAR ITEMS MUST BE PROVIDED BY OTHERS ON SITE FOR COMPLIANCE WITH APPLICABLE CODES PER LOCAL AUTHORITY HAVING JURISDICTION, WHETHER DETAILD IN THIS SET OR NOT, MUST BE MET.

ELECTRICAL NOTES:

- ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATE ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC).
- WHEN LIGHT FIXTURES ARE INSTALLED IN CLOSETS THEY SHALL BE SURFACE MOUNTED OR RECESSED. INCANDESCENT FIXTURES SHALL HAVE COMPLETELY ENCLOSED LAMPS. SURFACE MOUNTED INCANDESCENT FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 12 INCHES AND ALL OTHER FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 6 INCHES FROM "CLOSET STORAGE SPACE" AS DEFINED BY NEC ARTICLE 410.2.
- WHEN WATER HEATERS ARE INSTALLED THEY SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE WATER HEATERS SERVED. THE BRANCH CIRCUIT SWITCH OR CIRCUIT BREAKER SHALL BE PERMITTED TO SERVE AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT BREAKER IS WITHIN SIGHT FROM THE WATER HEATER OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION.
- HVAC EQUIPMENT SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE EQUIPMENT SERVED. A UNIT SWITCH WITH A MARKED "OFF" POSITION THAT IS A PART OF THE HVAC EQUIPMENT AND DISCONNECTS ALL UNGROUNDED CONDUCTORS SHALL BE PERMITTED AS THE DISCONNECTING MEANS WHERE OTHER DISCONNECTING MEANS ARE ALSO PROVIDED BY A READILY ACCESSIBLE CIRCUIT BREAKER.
- PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM THE INTERRUPTING RATING OF THE MAIN BREAKER MUST BE DESIGNED AND VERIFIED AS BEING IN COMPLIANCE WITH ARTICLES 110.9 & 110.10 OF THE NEC BY LOCAL ELECTRICAL CONSULTANT.
- THE MAIN ELECTRICAL PANEL AND FEEDERS ARE DESIGNED BY OTHERS, SITE INSTALLED AND SUBJECT TO LOCAL JURISDICTION APPROVAL.
- ALL CIRCUITS CROSSING OVER MODULE MATING LINES SHALL BE WEATHER PROOF (WP) ENCLOSURES. THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN AN ATTACHMENT LIGHT CAP IS INSERTED OR REMOVED. THE RECEPT ITSELF SHALL ALSO BE LISTED FOR DAMP AND WET LOCATIONS AS PER NEC.
- EXTERIOR LIGHTS NOT INTENDED FOR 24 HOUR USE SHALL BE CONNECTED TO A PHOTOCELL OR TIMER.
- OCCUPANCY SENSOR SWITCHES SHALL PROVIDE A BI-LEVEL LIGHTING CONTROL TO PROVIDE EITHER CONTINUOUS DIMMING, OR AT LEAST ONE INTERMEDIATE STEP IN LIGHTING POWER BETWEEN 30% & 70% OF FULL POWER IN ADDITION TO FULL ON AND FULL OFF.
- AUTOMATIC CONTROL DEVICES SHALL BE INSTALLED TO AUTOMATICALLY TURN OFF LIGHTS WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE AND SHALL EITHER BE MANUAL OR SHALL BE CONTROLLED TO AUTOMATICALLY TURN LIGHTS ON TO NOT MORE THAN 30% POWER.
- THE BUILDINGS FIRE ALARM SYSTEM (PROTECTIVE SIGNALING SYSTEMS, FIRE DETECTION SYSTEMS, ETC.) SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 101 AND NFPA 72 AND SITE INSTALLED BY OTHERS SUBJECT TO LOCAL BUILDING OFFICIAL REVIEW AND APPROVAL. THE FIRE ALARM CONTROL PANEL MUST BE INSTALLED IN A HIGHLY VISIBLE LOCATION ACCESSIBLE TO THE LOCAL AUTHORITY HAVING JURISDICTION. (THE FACP CANNOT BE INSTALLED IN A CLOSET OR BATHROOM).
- TAMPER RESISTANT RECEPTS TO BE PROVIDED IN EDUCATION BUILDING SERVING ELEMENTARY, PRE-SCHOOL, AND YOUNGER.



BUILDING DESIGN PARAMETERS

1. USE/OCCUPANCY: EDUCATION

2. CONSTRUCTION TYPE: VB

3. SPRINKLER SYSTEM: NO

4. BUILDING AREA: 7744 S.F.

5. BUILDING HEIGHT: < 15 FEET

6. NUMBER OF STORIES: 1

7. NUMBER OF MODULES: 2

8. OCCUPANT LOAD 288 BASED ON 90 NET SF/PERSON

9. EXTERIOR WALL FIRE RATING: NOT RATED

10. THIS BUILDING MUST BE INSTALLED WITH THE FIRE SEPARATION DISTANCES REQUIRED BY IBC, FBC & NBC 602 AND SECTION 705.3.

11. ENERGY CODE COMPLIANCE: SEE ATTACHED ENERGY CALCULATIONS.

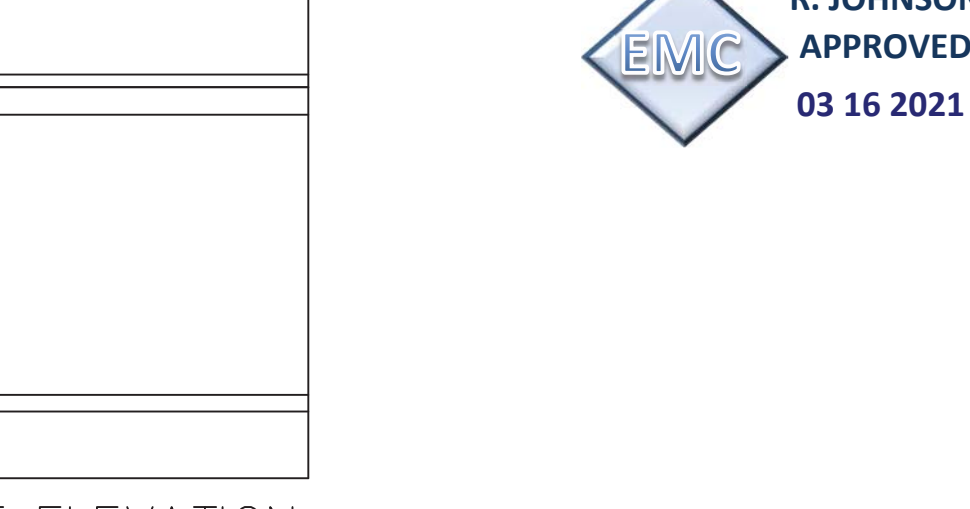
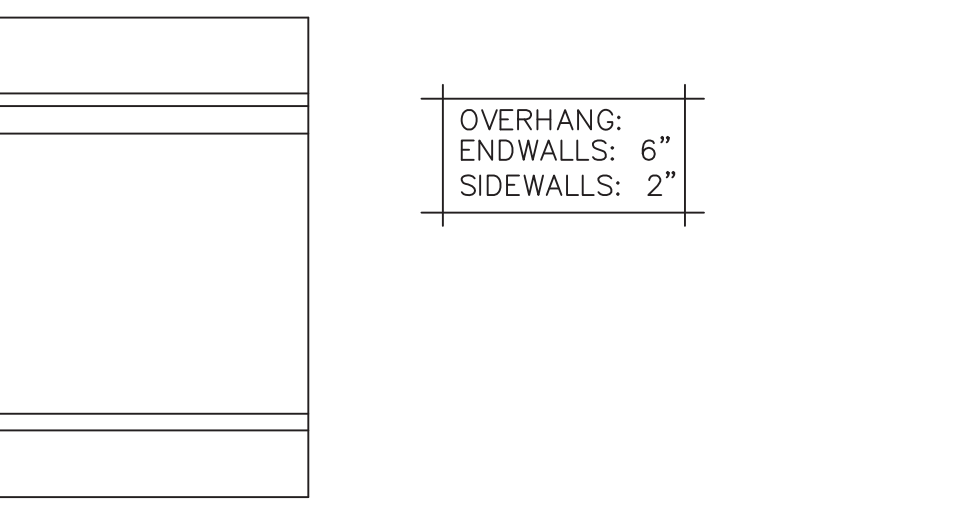
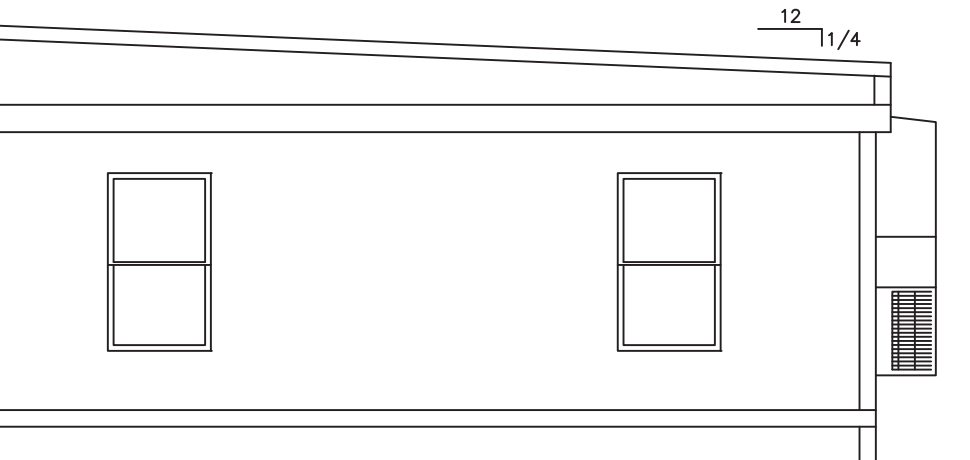
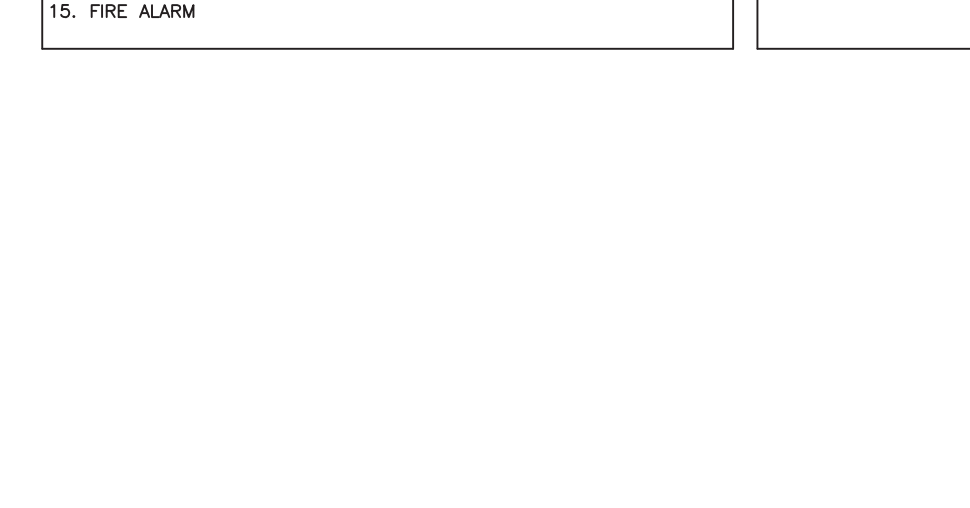
12. MANUFACTURERS DATA PLATE, STATE LABELS AND EMC LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL.

● SPRINKLER SYSTEM REQUIRED IF BUILDING IS TO BE INSTALLED IN GEORGIA, WEST VIRGINIA OR FLORIDA (2018 NFPA 101 CHAPTER 14.3.5)

SITE INSTALLED ITEMS:

NOTE THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIALS THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION. ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTION APPROVAL.

- THE COMPLETE FOUNDATION SUPPORT AND THE DOWN SYSTEM.
- RAMPS, STAIRS AND GROUND ACCESS TO THE BUILDING.
- PORTABLE FIRE EXTINGUISHER(S).
- BUILDING DRAINS, CLEANOUTS.
- HOOK-UP TO PLUMBING SYSTEM.
- ELECTRICAL SERVICE HOOK-UP (INCLUDING FEEDERS) TO THE BUILDING.
- GLAZING OPENING PROTECTION-SEE GENERAL NOTE 10
- EXTERIOR WINDOW
- EXIT DISCHARGE LIGHTING (INCLUDING EMERGENCY)
- FLORIDA FIRE PREVENTION CODE PLAN REVIEW & INSPECTION SHALL BE PERFORMED ON SITE BY OTHERS, SUBJECT TO LOCAL APPROVAL.
- THE FLOOR AND ROOF DESIGN OF THIS PLAN IS "LIGHT FRAME TRUSS-TYPE CONSTRUCTION" AS REFERENCED IN FAC RULE 69A-3.012(6). POSTING OF NOTICE(S) AS REQUIRED BY FAC 69A-3.012(6), 69A-3.012(6) SHALL BE SITE INSTALLED AND IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- ALL METAL FRAMING MEMBERS SHALL BE BONDED TO THE BUILDING ELECTRICAL SYSTEM AND IS THE RESPONSIBILITY OF THE BUILDING OWNER.
- TACTILE SIGNAGE
- LIGHT FRAMED TRUSS SIGNAGE
- FIRE ALARM



EMC R. JOHNSON APPROVED 03 16 2021

APPROVED-STATE OF GEORGIA INDUSTRIALIZED BUILDINGS PROGRAM

DESIGN APPROVAL AGENCY: EMC

CONST. TYPE: VB

OCCUPANCY: E

FLOOR LL (PSF): 40/100

WIND VELOCITY (MPH): 140/109

SEISMIC DESIGN CATEGORY: C

EXTERIOR WALL FIRE RATING (IRS): 0

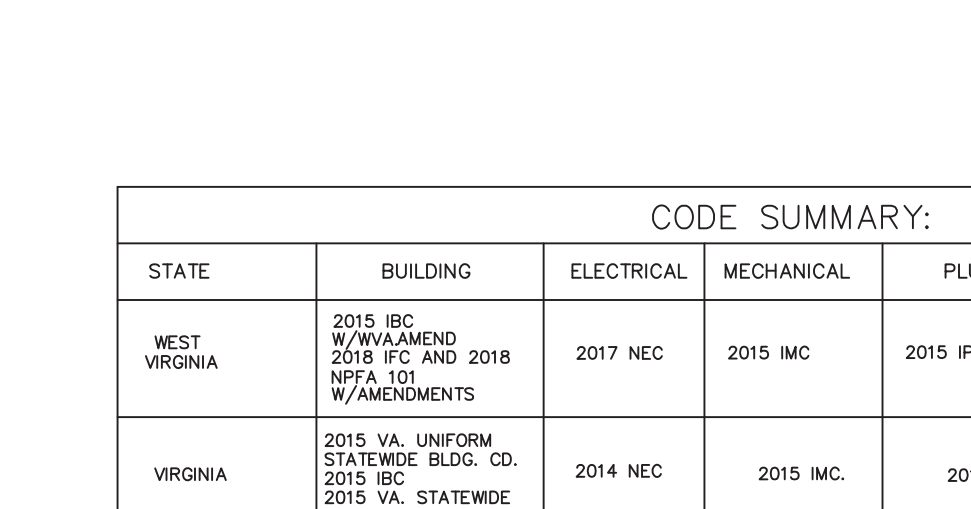
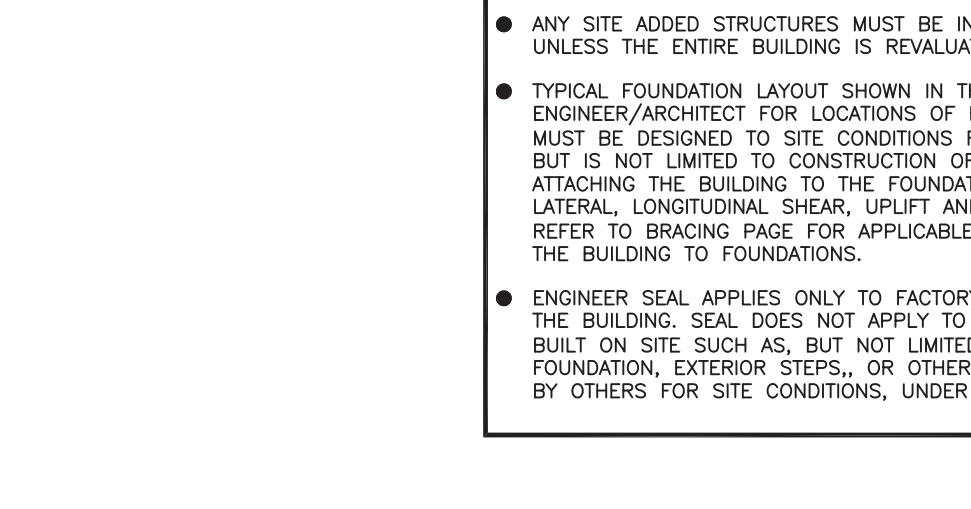
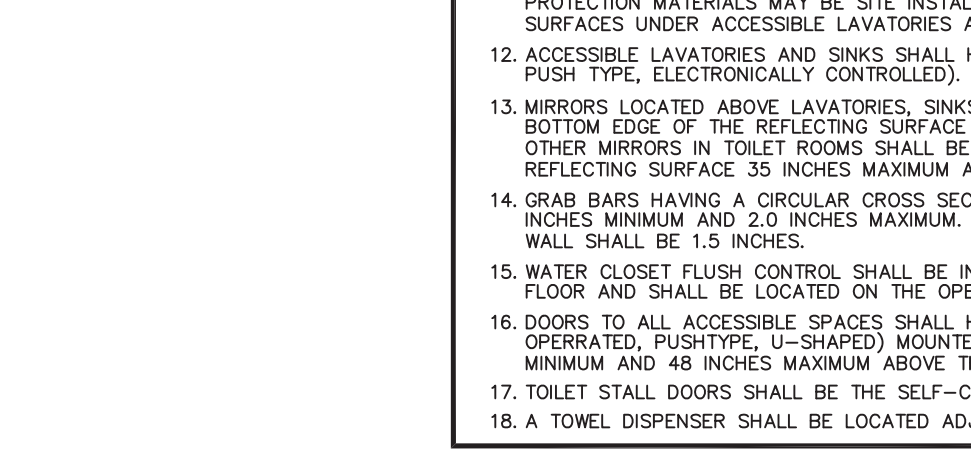
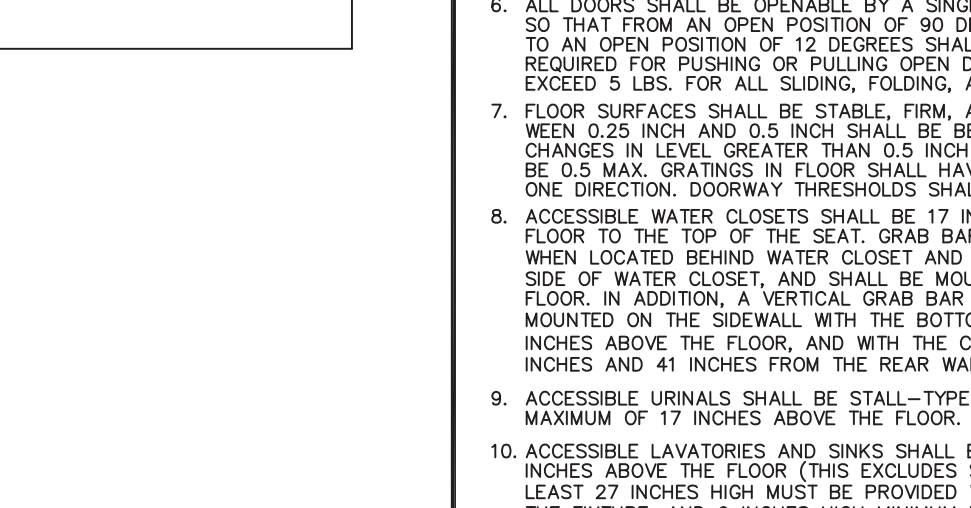
PLAN NUMBER: DBI 9222

APPROVAL DATE: 03-16-2021

EMC

ACCESSIBILITY NOTES:

- THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN SHALL BE DISPLAYED AT ALL ACCESSIBLE RESTROOM FACILITIES AND AT ACCESSIBLE BUILDING ENTRANCES UNLESS ALL ENTRANCES ARE ACCESSIBLE. INACCESSIBLE ENTRANCES SHALL HAVE DIRECTIONAL SIGNS INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE.
- ACCESSIBLE DRINKING FOUNTAINS SHALL HAVE A SPOUT HEIGHT NO HIGHER THAN 36 INCHES ABOVE THE FLOOR AND EDGE OF BASIN NO HIGHER THAN 24 INCHES ABOVE THE FLOOR FOR INDIVIDUALS IN WHEELCHAIRS. ADDITIONALLY, DRINKING WATER PROVISIONS SHALL BE MADE FOR INDIVIDUALS WHO HAVE DIFFICULTY BENDING.
- ACCESSIBLE RESTROOM FACILITIES SHALL BE PROVIDED TOILETS, CLOSETS AND DRAWERS ARE PROVIDED AT LEAST ONE TYPE PROVIDED SHALL CONTAIN STORAGE SPACE COMPLYING WITH THE FOLLOWING: TOILETS SHALL BE 48 INCHES ABOVE THE FLOOR (48 INCHES MAXIMUM), TOILET SEAT SHALL BE 15 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR FOR FORWARD REACH OR SIDE REACH. CLOTHES RODS OR COAT HOOKS SHALL BE 48 INCHES ABOVE THE FLOOR (48 INCHES MAXIMUM) WHEN DISTANCE FROM WHEEL CHAIR TO ROD EXCEEDS 10 INCHES. SHELVES IN KITCHENS SHALL BE 48 INCHES ABOVE THE FLOOR (48 INCHES MAXIMUM) ABOVE THE FLOOR.
- CONTROLS, DISPENSERS, RECEPTABLES AND OTHER OPERABLE EQUIPMENT SHALL BE NO HIGHER THAN 48 INCHES ABOVE THE FLOOR. RECEPTABLES SHALL BE MOUNTED NO LESS THAN 15 INCHES ABOVE THE FLOOR. EXCEPTION: HEIGHT LIMITATIONS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL RECEPTABLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS.
- WHERE EMERGENCY WARNING SYSTEMS ARE PROVIDED, THEY SHALL INCLUDE BOTH ALIBLE AND VISUAL ALARMS. THE VISUAL ALARMS SHALL BE LOCATED THROUGHOUT INCLUDING RESTROOM, AND PLACED 80 INCHES ABOVE THE FLOOR OR 6 INCHES BELOW CEILING, WHICH-EVER IS LOWER.
- ALL DOORS SHALL BE OPERABLE BY A SINGLE EFFORT. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A CLOSED POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM. THE MAXIMUM FORCE REQUIRED FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL NOT EXCEED 5 LBS. FOR ALL SLIDING, FOLDING, AND INTERIOR-HINGED DOORS.
- FLOOR SURFACES SHALL BE SMOOTH, FIRM, AND SLIP-RESISTANT. CHANGES IN LEVEL BETWEEN 0.25 INCH AND 0.5 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2. WHERE SURFACES ARE BEVELED, THE BEVEL SHALL BE 1/8 INCH THICKNESS MAXIMUM. BEVELS SHALL BE 0.5 MAX. GRATING IN FLOOR SHALL HAVE SPACES NO GREATER THAN 0.5 INCH WIDE IN ONE DIRECTION. DOORWAY THRESHOLDS SHALL NOT EXCEED 0.5 INCH IN HEIGHT.
- ACCESSIBLE WATER CLOSETS SHALL BE 17 INCHES TO 19 INCHES MEASURED FROM THE FLOOR TO THE TOP OF THE SEAT. GRAB BARS SHALL BE 36 INCHES LONG MINIMUM. THE POSITION OF THE SEAT SHALL BE 17 INCHES TO 19 INCHES MINIMUM. THE LOCATION ALONG SIDE OF WATER CLOSET, AND SHALL BE MOUNTED 33 INCHES TO 36 INCHES ABOVE THE FLOOR. GRAB BARS SHALL BE 1 1/2 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR. GRAB BARS SHALL BE MOUNTED ON THE SIDEWALL WITH THE BOTTOM OF THE BAR LOCATED BETWEEN 39 AND 41 INCHES ABOVE THE FLOOR, AND WITH THE CENTER LINE OF THE BAR LOCATED BETWEEN 39 AND 49 INCHES ABOVE THE FLOOR, AND WITH THE CENTER LINE OF THE BAR LOCATED BETWEEN 39 AND 49 INCHES ABOVE THE FLOOR.
- ACCESSIBLE URINALS SHALL BE STALL-TYPE OR WALL HUNG WITH ELONGATED RIMS AT A MAXIMUM OF 17 INCHES ABOVE THE FLOOR.
- ACCESSIBLE LAVATORIES AND SINKS SHALL BE MOUNTED WITH THE RIM NO HIGHER THAN 34 INCHES ABOVE THE FLOOR. KNEE CLEARANCE OF AT LEAST 27 INCHES HIGH MUST BE PROVIDED WITH A MINIMUM DEPTH OF 8 INCHES BENEATH THE FIXTURE. AND 9 INCHES HIGH MINIMUM WITH MINIMUM DEPTH OF 11 INCHES BENEATH THE FIXTURE. THE KNEE SPACE MUST BE AT LEAST 30 INCHES WIDE.
- HOT WATER AND DRAIN PIPES UNDER ACCESSIBLE LAVATORIES AND SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. INSULATION OR PROTECTION MATERIALS MAY BE SITE INSTALLED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER ACCESSIBLE LAVATORIES AND SINKS.
- ACCESSIBLE LAVATORIES AND SINKS SHALL HAVE ACCESSIBLE FAUCETS (I.E. LEVER-OPERATED, PUSH TYPE, ELECTRONICALLY CONTROLLED).
- MIRRORS LOCATED ABOVE LAVATORIES, SINKS OR COUNTERS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE A MAXIMUM OF 40 INCHES ABOVE THE FLOOR. OTHER MIRRORS IN TOILET ROOMS SHALL BE MOUNTED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAXIMUM ABOVE THE FLOOR.
- GRAB BARS HAVING A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1.25 INCHES MINIMUM AND 2.0 INCHES MAXIMUM. THE SPACE BETWEEN THE GRAB BAR AND THE WALL SHALL BE 1.5 INCHES.
- WATER CLOSET FLUSH CONTROL SHALL BE INSTALLED A MAXIMUM OF 36 INCHES ABOVE THE FLOOR AND SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET.
- DOORS TO ALL ACCESSIBLE SPACES SHALL HAVE ACCESSIBLE HARDWARE (I.E. LEVER - OPERATED, PUSH-TYPE, U-SHAPED) MOUNTED WITH OPERABLE PARTS BETWEEN 34 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FLOOR.
- TOILET STALL DOORS SHALL BE THE SELF-CLOSING TYPE.
- A TOWEL DISPENSER SHALL BE LOCATED ADJACENT TO ALL ACCESSIBLE LAVATORIES.



SPECIAL CONDITIONS AND REQUIREMENTS

- ANY SITE ADDED STRUCTURES MUST BE INDEPENDENT OF THE FACTORY BUILDING UNLESS THE ENTIRE BUILDING IS RE-EVALUATED BY THE SITE ENGINEER.
- TYPICAL FOUNDATION LAYOUT SHOWN IN THIS PACKAGE IS TO AID THE SITE ENGINEER/ARCHITECT FOR LOCATIONS OF REQUIRED SUPPORTS. ACTUAL FOUNDATION MUST BE DESIGNED TO SITE CONDITIONS FOR ALL APPLICABLE LOADS. THIS INCLUDES BUT IS NOT LIMITED TO CONSTRUCTION OF THE FOUNDATION, SEISMIC DESIGN AND ATTACHING THE BUILDING TO THE FOUNDATION, ALONG WITH THE RESISTANCE TO LATERAL, LONGITUDINAL, SHEAR, UPLIFT AND DOWNWARD FORCES IN BOTH DIRECTIONS. REFER TO BRACING/FACR FOR APPLICABLE BRACING/SEISMIC LOADS FOR ATTACHING THE BUILDING TO FOUNDATIONS.
- ENGINEER SEAL APPLIES ONLY TO FACTORY MANUFACTURED STRUCTURAL PORTION OF THE BUILDING. SEAL DOES NOT APPLY TO SITE INSTALLED ELEMENTS OR PORTIONS BUILT ON SITE SUCH AS, BUT NOT LIMITED TO, FOUNDATION, BRACING TIE DOWN TO FOUNDATION, EXTERIOR STEPS, OR OTHER SITE WORKS. SITE WORK MUST BE DESIGNED BY OTHERS FOR SITE CONDITIONS, UNDER LOCAL JURISDICTION.

CODE SUMMARY:

STATE	BUILDING	ELECTRICAL	MECHANICAL	PLUMBING	ACCESSIBILITY	ENERGY CODE
WEST VIRGINIA	2015 IBC W/VA AMENDS 2018 IFC AND 2018 W/VA AMENDMENTS	2017 NEC	2015 MC	2015 IPC	ICC/ANSI A117.1-2017	ASHRAE 90.1 2010
VIRGINIA	2015 VA UNIFORM STATEWIDE BLDG. CD. 2015 IBC 2015 VA STATEWIDE FIRE PREVENTION CODE 2015 IFC W/VA AMENDS	2014 NEC	2015 MC	2015 PC	ICC/ANSI A117.1-2009	2015 EICC
GEORGIA	2018 IBC W/2020 GA. AMEND. CHAPTER 120-3-30 2018 LIFE SAFETY CODE W/GA AMEND	2020 NEC NO AMEND	2018 MC W/2020 GA. AMEND.	2018 IFC W/2020 GA. AMEND.	GA ACCESS. CODE, CHAPTER 120-3-20 2010 ADA	2015 EICC W/2020 GA. AMENDS.
FLORIDA	2018 IBC AND 2018 IFC WITH SC MODS.	2020 NEC	2018 MC W/2020 MECH.	2018 IFC PLUMB.	ICC/ANSI A117.1-2017	2009 EICC ENERGY CONSERVATION
SOUTH CAROLINA	2018 IBC AND 2018 IFC WITH SC MODS.	2017 NEC	2018 MC W/ SC MODS.	2018 IPC	ICC/ANSI A117.1-2017	2009 EICC
N. CAROLINA	NBC 2018 NCPCC	2017 N.C. ELECT. CODE	2018 NCMC	2018 NCPCC	ICC/ANSI A117.1-2009	2018 NC ENERGY CODE

CONSULTING ENGINEER: NADER TOMASBI, P.E. - 58665 GLENRIVER DRIVE - GOSHEN, IN, 46528 - 574-370-3419

DIAMOND BUILDERS INC.
P.O. BOX 2200
DUGLAS, GEORGIA 31534 (412) 384-7080

DATE: 2-28-21
SCALE: NO SCALE
CODES: SEE NOTES

THE CITADEL
171 MOUTRIE STREET
CHARLESTON, SC, 29409

STATES: FL, GA, NC, SC. REVISIONS:
VA, W.VA.

DBI9222 A-1
121'-0" x 64'-0" EDUCATION
COVER SHEET

SHEET 1 OF 6

JOHN A. BODZIAK
ARCHITECT, AIA, PA.
ARCHITECTURE, DESIGN AND CONSTRUCTION MANAGEMENT
ALABAMA REGISTRATION NO. 5478
MAIL: jacob@bodzia.com
743 46TH STREET
ST. PETERSBURG, FLORIDA 33722
TEL: (727) 327-1966 FAX: (727) 865-5119

REGISTERED PROFESSIONAL ENGINEER
STATE OF VIRGINIA
16342
NADER TOMASBI
No. 0402 040998
03/15/2021

REGISTERED PROFESSIONAL ENGINEER
STATE OF GEORGIA
PE030356
NADER TOMASBI
03/15/2021

REGISTERED PROFESSIONAL ENGINEER
STATE OF FLORIDA
NADER TOMASBI
03/15/2021

REGISTERED PROFESSIONAL ENGINEER
STATE OF NORTH CAROLINA
NADER TOMASBI
03/15/2021

REGISTERED PROFESSIONAL ENGINEER
STATE OF SOUTH CAROLINA
NADER TOMASBI
03/15/2021

REGISTERED PROFESSIONAL ENGINEER
STATE OF WEST VIRGINIA
NADER TOMASBI
03/15/2021

ELECTRICAL SCHEDULE 'b'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (ECL)
1, 3	HVAC	60 A (2P) 1-2	#6 GND.
4	RECEPTACLES	20 A 12-2 NM	
2	LIGHTING	15 A 14-2 MC	

ELECTRICAL PANEL SIZING:
DESCRIPTION PANEL 'b' KVA

GENERAL LIGHTING:
0030 KW/SF X 742 SF X 1.25= 2.8
#3 RECEPTS AT 180W/1000= 1.6
WATER HEATER 6.5 KW =
#3 FANS AT 3 KW X 1.25= 10.5
HVAC =

TOTAL 14.9 KW
TOTAL/240 X 100= 62 AMPS
INSTALL 150 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'a'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (ECL)
1, 3	HVAC	60 A (2P) 1-2	#6 GND.
4, 6	RECEPTACLES	20 A 12-2 NM	
2, 4	LIGHTING	15 A 14-2 MC	

ELECTRICAL PANEL SIZING:
DESCRIPTION PANEL 'a' KVA

GENERAL LIGHTING:
0030 KW/SF X 1118 SF X 1.25= 4.2
#3 RECEPTS AT 180W/1000= 1.6
WATER HEATER 6.5 KW =
#3 FANS AT 3 KW X 1.25= 10.5
HVAC =

TOTAL 16.2 KW
TOTAL/240 X 100= 68 AMPS
INSTALL 150 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'd'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (ECL)
1, 3	HVAC	60 A (2P) 1-2	#6 GND.
4	RECEPTACLES	20 A 12-2 NM	
2	LIGHTING	15 A 14-2 MC	

ELECTRICAL PANEL SIZING:
DESCRIPTION PANEL 'd' KVA

GENERAL LIGHTING:
0030 KW/SF X 742 SF X 1.25= 2.8
#3 RECEPTS AT 180W/1000= 1.6
WATER HEATER 6.5 KW =
#3 FANS AT 3 KW X 1.25= 10.5
HVAC =

TOTAL 14.9 KW
TOTAL/240 X 100= 62 AMPS
INSTALL 150 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'c'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (ECL)
1, 3	HVAC	60 A (2P) 1-2	#6 GND.
4, 6	RECEPTACLES	20 A 12-2 NM	
2, 4	LIGHTING	15 A 14-2 MC	

ELECTRICAL PANEL SIZING:
DESCRIPTION PANEL 'c' KVA

GENERAL LIGHTING:
0030 KW/SF X 742 SF X 1.25= 2.8
#3 RECEPTS AT 180W/1000= 1.6
WATER HEATER 6.5 KW =
#3 FANS AT 3 KW X 1.25= 10.5
HVAC =

TOTAL 14.8 KW
TOTAL/240 X 100= 62 AMPS
INSTALL 150 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'e'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (ECL)
1, 3	HVAC	60 A (2P) 1-2	#6 GND.
5	WATER HEATER	20 A(1P) 12-2 NM	
7	1 BRK 120V 1Ø/2Ø	20 A(1P) 12-2 NM	
4	RECEPTACLES	20 A 12-2 NM	
2	LIGHTING	15 A 14-2 MC	

ELECTRICAL PANEL SIZING:
DESCRIPTION PANEL 'e' KVA

GENERAL LIGHTING:
0030 KW/SF X 509 SF X 1.25= 2.1
#3 RECEPTS AT 180W/1000= 1.0
WATER HEATER 1.8KW X 1.25 = 2.3
#3 FANS AT 3 KW X 1.25= 10.5
HVAC =

DED. QUANT. 0.8 KW X 1.25 = 1.0
TOTAL 14.9 KW
TOTAL/240 X 100= 62 AMPS
INSTALL 150 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'c'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (ECL)
1, 3	HVAC	60 A (2P) 1-2	#6 GND.
4	RECEPTACLES	20 A 12-2 NM	
2	LIGHTING	15 A 14-2 MC	

ELECTRICAL PANEL SIZING:
DESCRIPTION PANEL 'c' KVA

GENERAL LIGHTING:
0030 KW/SF X 742 SF X 1.25= 2.8
#3 RECEPTS AT 180W/1000= 1.6
WATER HEATER 6.5 KW =
#3 FANS AT 3 KW X 1.25= 10.5
HVAC =

TOTAL 14.9 KW
TOTAL/240 X 100= 62 AMPS
INSTALL 150 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'f'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (ECL)
1, 3	HVAC	60 A (2P) 1-2	#6 GND.
4	RECEPTACLES	20 A 12-2 NM	
2	LIGHTING	15 A 14-2 MC	

ELECTRICAL PANEL SIZING:
DESCRIPTION PANEL 'f' KVA

GENERAL LIGHTING:
0030 KW/SF X 1118 SF X 1.25= 4.2
#3 RECEPTS AT 180W/1000= 1.6
WATER HEATER 6.5 KW =
#3 FANS AT 3 KW X 1.25= 10.5
HVAC =

TOTAL 16.2 KW
TOTAL/240 X 100= 68 AMPS
INSTALL 150 AMP PANEL
120/240 V 1Ø

ELECTRICAL SCHEDULE 'i'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (ECL)
1, 3	HVAC	60 A (2P) 1-2	#6 GND.
4	RECEPTACLES	20 A 12-2 NM	
2, 6	LIGHTING	15 A 14-2 MC	

ELECTRICAL PANEL SIZING:
DESCRIPTION PANEL 'i' KVA

GENERAL LIGHTING:
0030 KW/SF X 742 SF X 1.25= 2.8
#3 RECEPTS AT 180W/1000= 1.6
WATER HEATER 6.5 KW =
#3 FANS AT 3 KW X 1.25= 10.5
HVAC =

TOTAL 14.8 KW
TOTAL/240 X 100= 62 AMPS
INSTALL 150 AMP PANEL
120/240 V 1Ø

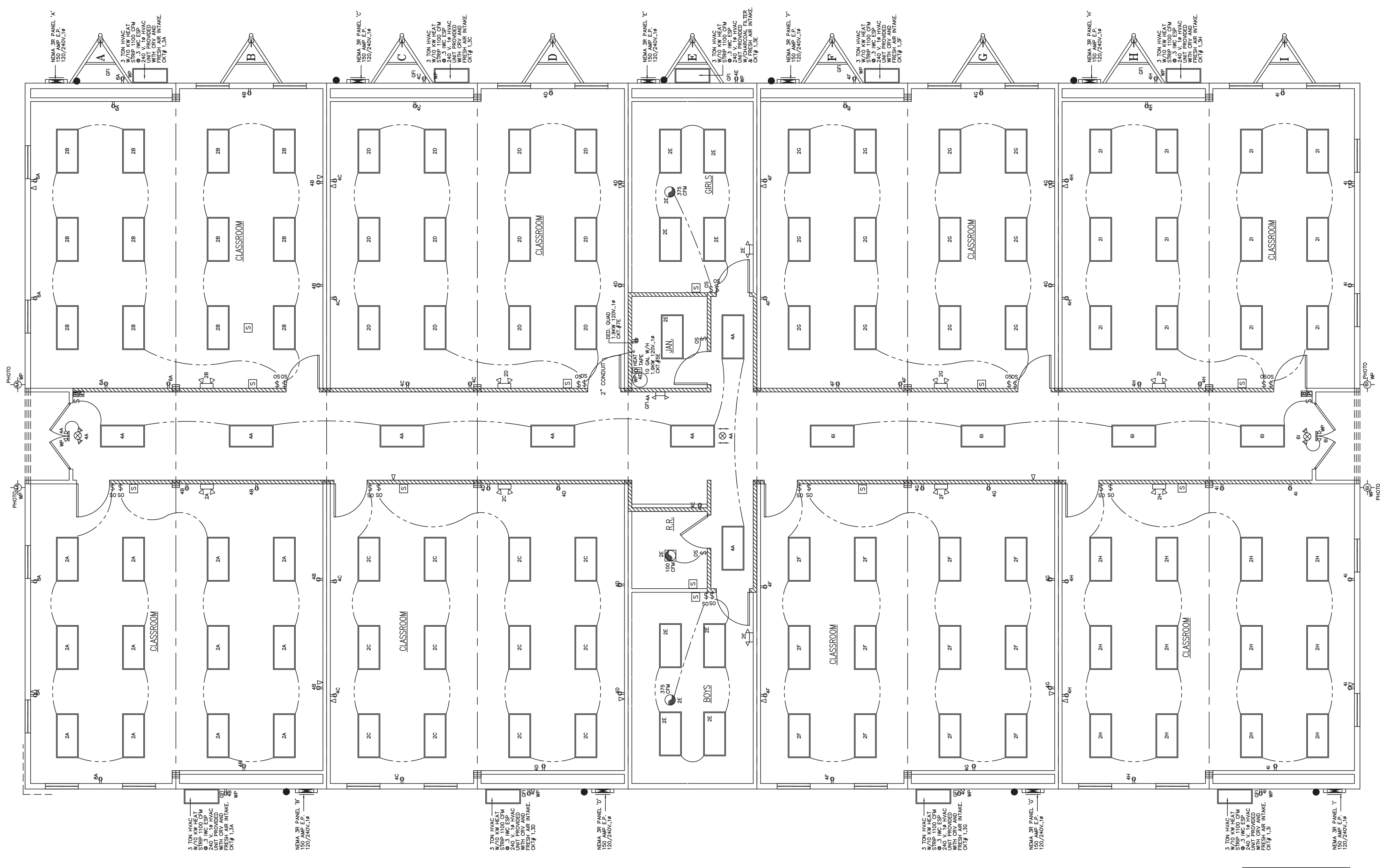
ELECTRICAL SCHEDULE 'h'			
CIRCUIT	NOMENCLATURE	BREAKER (AMPS)	WIRE (ECL)
1, 3	HVAC	60 A (2P) 1-2	#6 GND.
4	RECEPTACLES	20 A 12-2 NM	
2	LIGHTING	15 A 14-2 MC	

ELECTRICAL PANEL SIZING:
DESCRIPTION PANEL 'h' KVA

GENERAL LIGHTING:
0030 KW/SF X 742 SF X 1.25= 2.8
#3 RECEPTS AT 180W/1000= 1.6
WATER HEATER 6.5 KW =
#3 FANS AT 3 KW X 1.25= 10.5
HVAC =

TOTAL 14.9 KW
TOTAL/240 X 100= 62 AMPS
INSTALL 150 AMP PANEL
120/240 V 1Ø

NW CABLE SHALL NOT BE USED WHERE INTERIOR FINISH HAS LESS THAN A 15 MIN. FIRE RATING TYPE AC OR OTHER APPROVED WIRING METHODS SHALL BE USED WHEN USING LESS THAN 1/2" GYI WALL SHEATHING



SYMBOLS

—BOXES ONLY

- FIRE ALARM PULL STATION 44 APT
- FIRE ALARM HORN/STROBE 80 APT
- FIRE ALARM STROBE LIGHT 80 APT
- ▽ JUNCTION BOX (NON POWERED UNLESS CIRCUIT IS SHOWN)
- CLS. MT. J-BOX
- SMOKE DETECTOR
- DUPLEX RECEPTACLE 120 V.
- SINGLE RECEPTACLE 240 V.
- LED PORCH LIGHT WITH 1" 60 W. BULB
- COMPACT FLUORESCENT LIGHT 1-60 W. BULB
- COMPACT FLUOR. WALL PACK
- CLS. MT. POWERED J-BOX
- VENT FAN
- COMB. VENT FAN & LIGHT
- SUPPLY AIR REGISTER
- RETURN AIR REGISTER
- FLOOD LIGHT 2-150W BULBS
- THERMOSTAT
- LED LIGHT FIXTURE W/40W, 24V LED PANEL
- EXIT/EMERGENCY COMBO W/REMOTE HEAD W/BATTERY BACKUP
- EXIT/EMERGENCY COMBO W/BATTERY BACKUP
- EXIT SIGN W/BATTERY BACKUP
- EMERGENCY LIGHT WITH BATTERY BACKUP
- TELEPHONE JACK
- SWITCH & 3 WAY SWITCH
- OCCUPANCY SENSOR SWITCH
- FIRE EXTINGUISHER

NOTES: MANUFACTURERS DATA PLATE, STATE LABELS AND EMC LABELS ARE TO BE LOCATED ADJACENT TO ELECTRICAL PANEL.



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STATE OF GEORGIA
REGISTERED ARCHITECT
JOHN A. BODZIAK
03/16/2021

REGISTERED PROFESSIONAL ENGINEER
NADER TOMASBI
16342
STATE OF VIRGINIA
03/15/2021

COMMONWEALTH OF VIRGINIA
03/15/2021
NADER TOMASBI
No. 0402 040998
REGISTERED PROFESSIONAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER
NADER TOMASBI
No. PE030356
STATE OF FLORIDA
03/15/2021

REGISTERED PROFESSIONAL ENGINEER
NADER TOMASBI
No. 56556
STATE OF FLORIDA
03/15/2021

REGISTERED PROFESSIONAL ENGINEER
NADER TOMASBI
No. 34147
STATE OF SOUTH CAROLINA
03/15/2021

REGISTERED PROFESSIONAL ENGINEER
NADER TOMASBI
SEAL 17084
STATE OF NORTH CAROLINA
03/15/2021

CONSULTING ENGINEER: NADER TOMASBI, P.E. - 58665 GLENRIVER DRIVE - GOSHEN, IN. 46528 - 574-370-3419

DIAMOND BUILDERS INC.
P.O. BOX 2200
DOUGLASS, GEORGIA 31534

THE CITADEL
171 MOULTRIE STREET
CHARLESTON, SC 29409

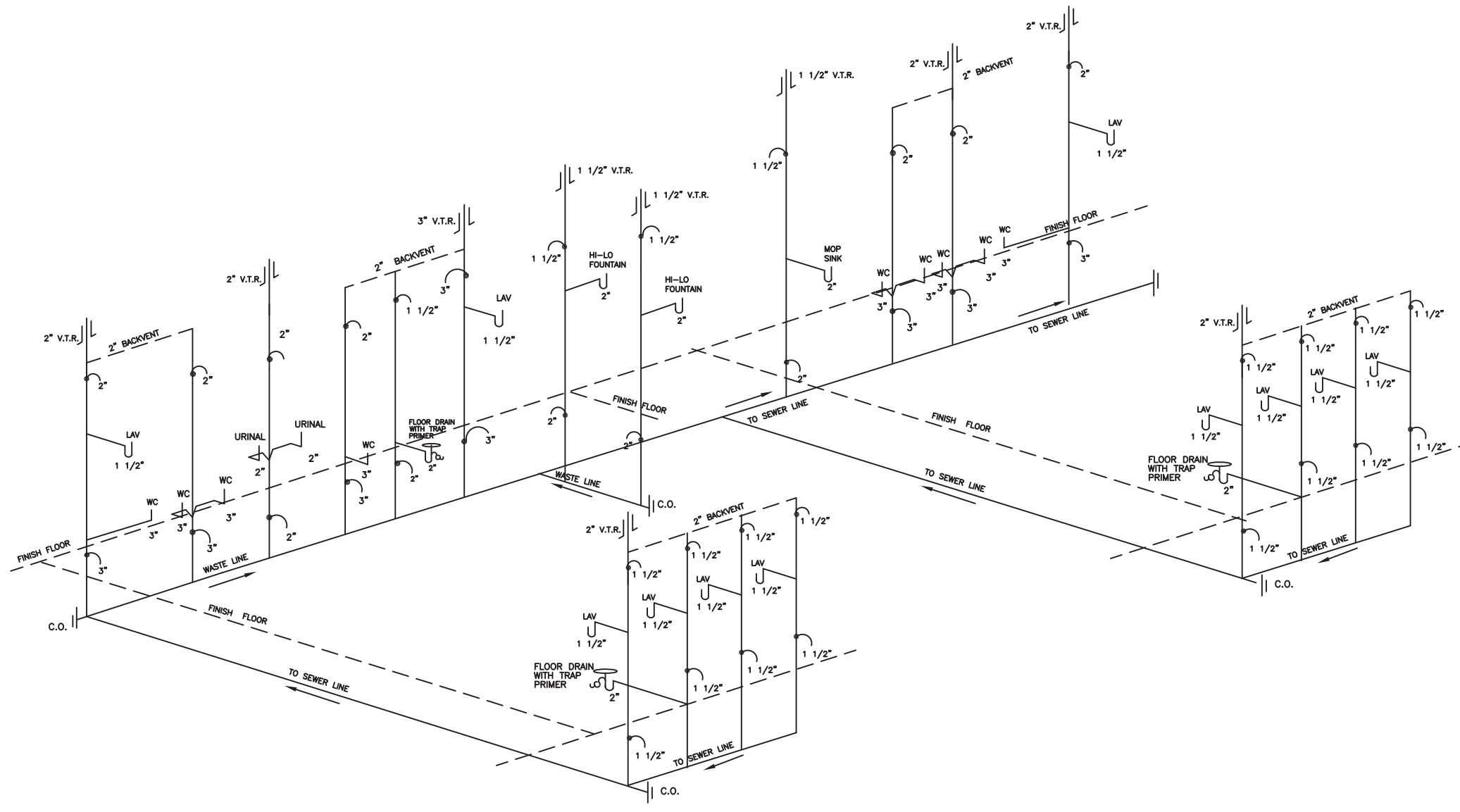
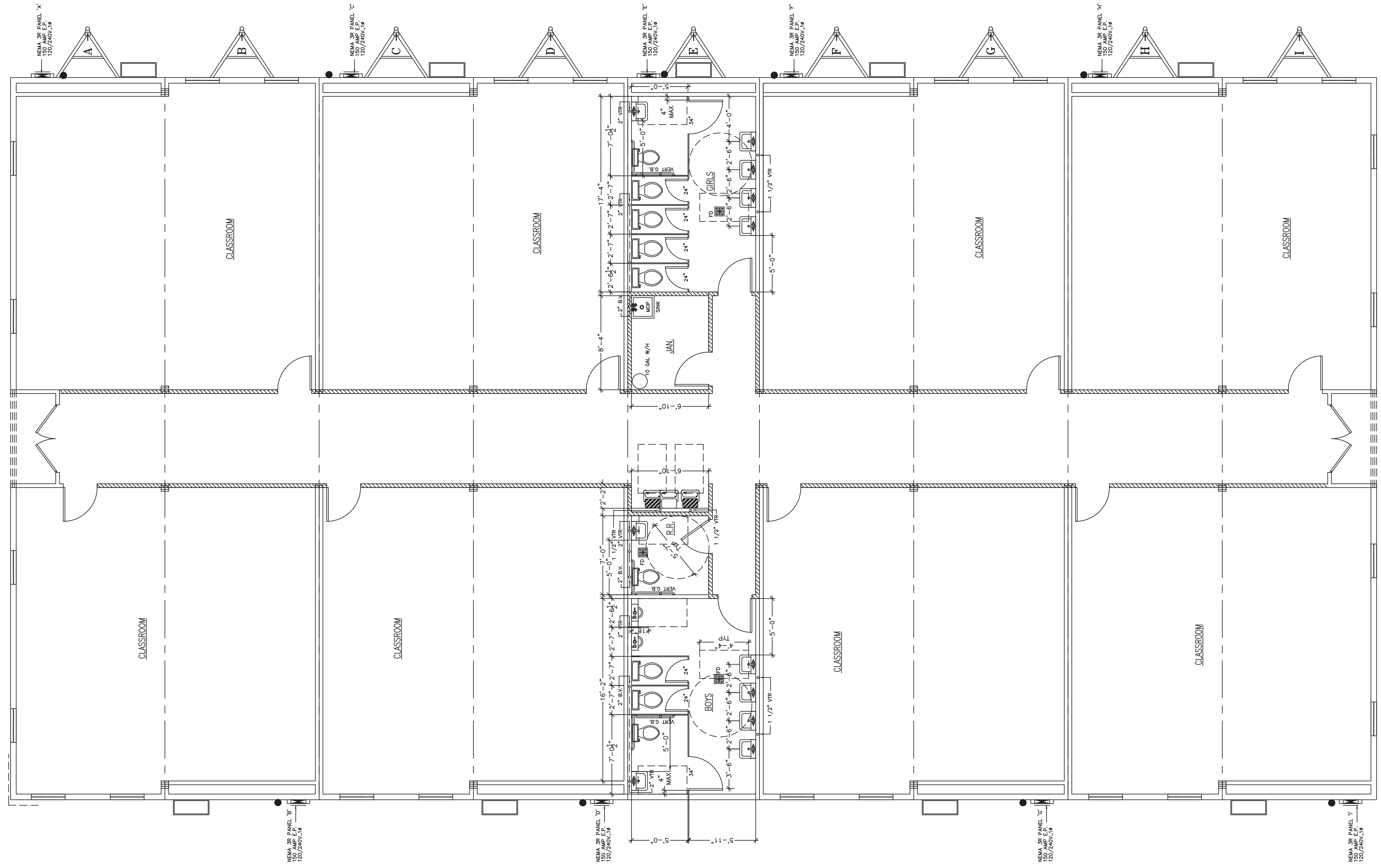
DATE: 2-28-21
SCALE: 3/16"=1'-0"
CODES: SEE NOTES

STATES: FL, GA, NC, SC, VA, W.VA.
REVISIONS:
R.E.G.

DBI9222 A-1
121'-0" x 64'-0" EDUCATION
ELECTRICAL

SHEET 3 OF 6

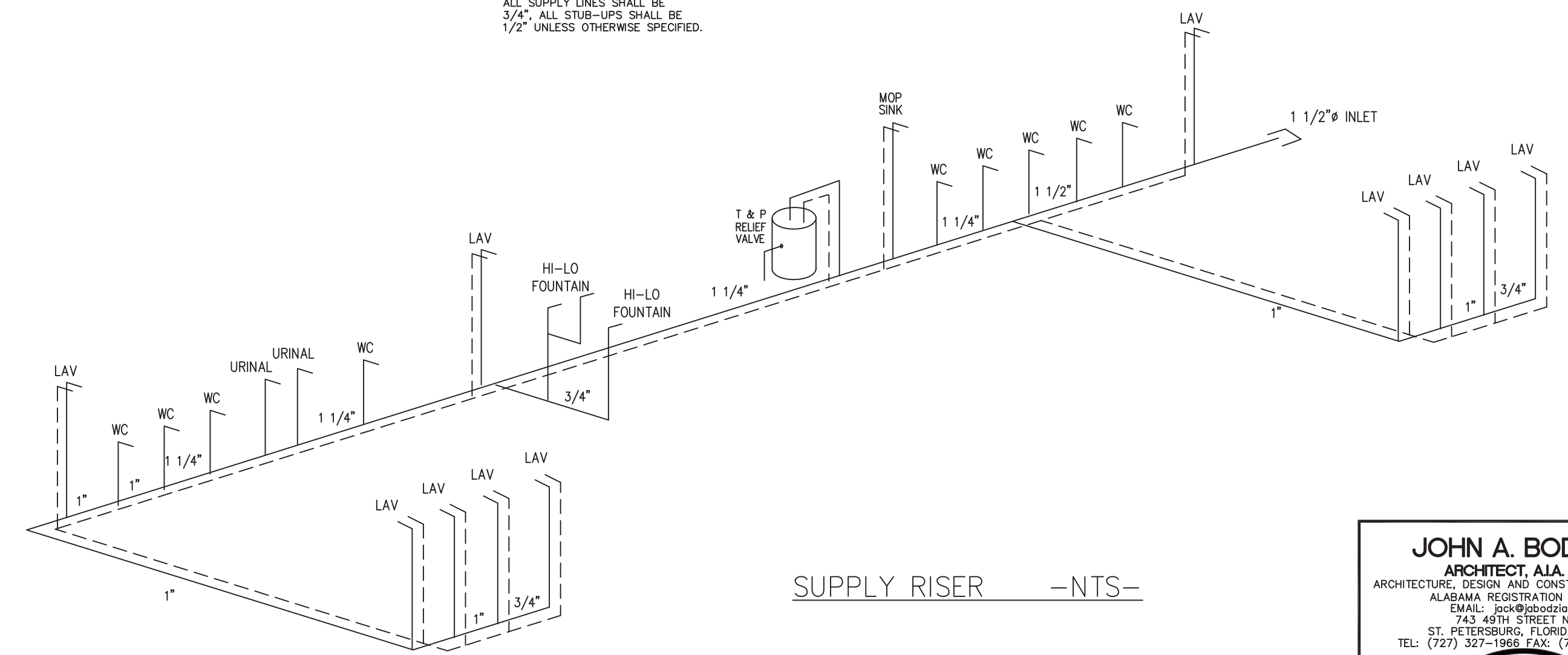
- DWV RISER NOTES:**
1. THE DWV RISER INDICATES ONE METHOD OF INSTALLING THE BELOW FLOOR PIPING. OTHER APPROVED METHODS MAY BE USED AS NEEDED TO ACCOMMODATE THE ACTUAL SITE CONDITIONS.
 2. ALL BELOW FLOOR PIPING AND FITTINGS ARE TO BE SUPPLIED AND INSTALLED ON SITE BY OTHERS.
 3. 1 1/2" AND 2" INCH HORIZONTAL DRAIN LINES SHALL BE INSTALLED WITH A SLOPE OF 1/8" INCH PER FOOT.
 4. 3" AND 4" INCH HORIZONTAL DRAIN LINES SHALL BE INSTALLED WITH A SLOPE OF 1/8" INCH PER FOOT.
 5. BELOW FLOOR HORIZONTAL DRAIN LINES ARE 3 INCH MINIMUM DIAMETER UNLESS INDICATED OTHERWISE.
 6. A MAXIMUM OF 3 WATER CLOSETS MAY DISCHARGE INTO A 3 INCH LINE.
 7. CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS AS INDICATED IN TABLE 706.3. VERTICAL TO HORIZONTAL AND HORIZONTAL TO HORIZONTAL CHANGES OF DIRECTION ARE TO BE MADE WITH LONG SWEEP FITTINGS.



DWV RISER NOTES

SUPPLY LINE SIZING IS BASED ON AN ASSUMED AVAILABLE PRESSURE OF 46 TO 60 PSI AT MAIN INLET AND SHOULD BE VERIFIED PRIOR TO CONSTRUCTION.

ALL SUPPLY LINES SHALL BE 3/4" ALL STUB-UPS SHALL BE 1/2" UNLESS OTHERWISE SPECIFIED.



SUPPLY RISER NOTES

EMC R. JOHNSON APPROVED
03 16 2021

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DIAMOND BUILDERS INC.
P.O. BOX 2200 440 THOMPSON DR.
DOUGLASS, GEORGIA 31534 (912) 384-7080

DATE: 2-28-21	THE CITADEL 171 MOULTRIE STREET CHARLESTON, SC. 29409
SCALE: 3/16"=1'-0"	REVISIONS:
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DBI9222 A-1	SHEET
121'-0" x 64'-0" EDUCATION	5 OF 6
PLUMBING PLAN	

EXTERIOR FINISH MATERIAL:

ROOF - MULE-HIDE 45 MIL (WHITE) EPDM (ESR-1463) FULLY ADHERED TO 7/16" OSB OR 1/2" PLYWOOD WITH MULE-HIDE FR ADHESIVE IN ACCORDANCE WITH INTERTEK REPORT CCCR-1078 (CLASS C ROOF)

WALL - 26 GAUGE HI-RIB STEEL SIDING OVER APPROVED MOISTURE BARRIER OVER 7/16" OSB SHEATHING INSTALLED PER MANUFACTURERS SPECIFICATIONS.

INTERIOR FINISH MATERIAL:

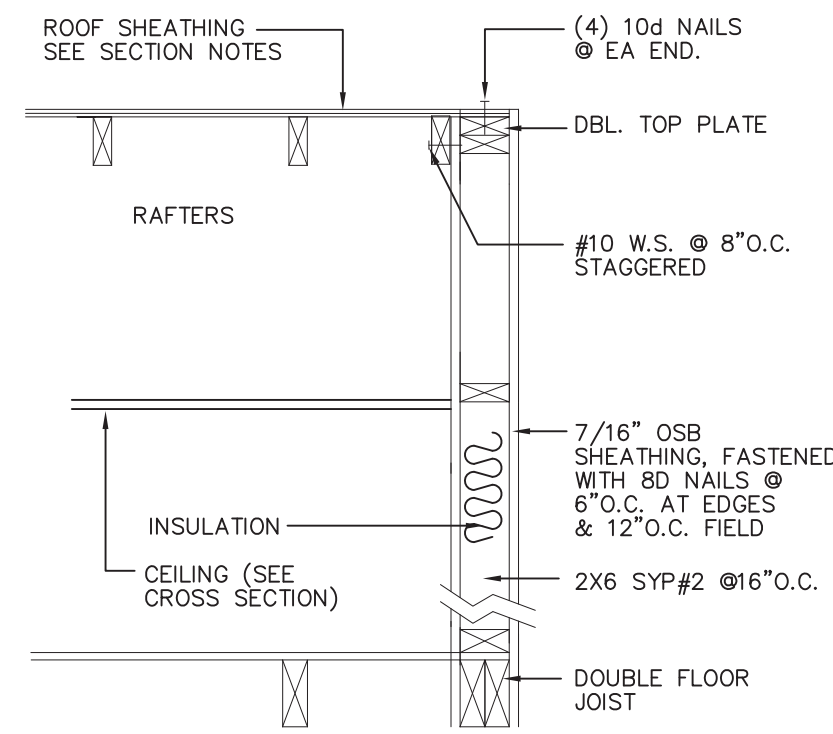
CEILING - T-GRID CEILING INSTALLED PER MANUFACTURER'S SPECIFICATIONS

WALL - 5/8" TYPE 'X' GYP. BOARD (VCG THROUGHOUT) INSTALLED PER MANUFACTURERS SPECIFICATIONS

RESTROOM JAN CL. - FRP OVER 1/2" GYP. BOARD (FULL HEIGHT) INSTALLED PER MANUFACTURERS SPECIFICATIONS

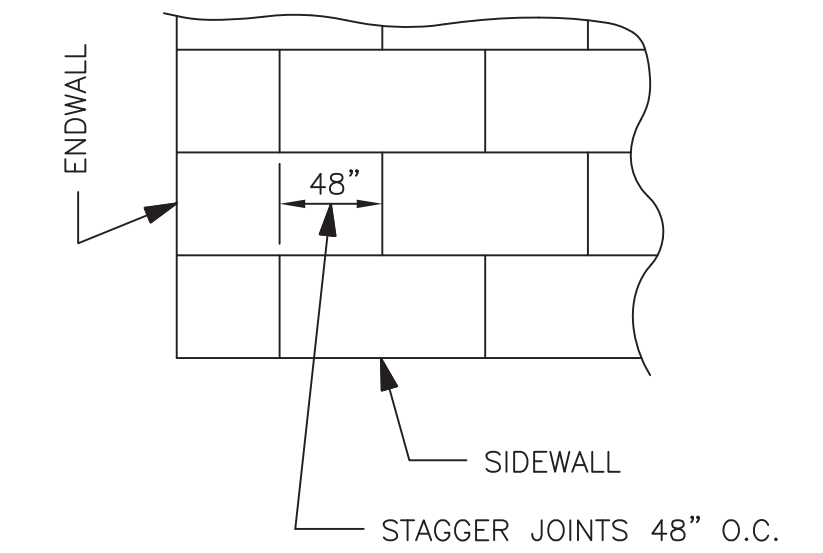
FLOOR - AS NOTED ON FLOOR PLAN

NOTE: INTERIOR WALL AND CEILING FINISH SHALL BE CLASS B OR BETTER IN IN CORRIDORS AND CLASS C OR BETTER IN ROOMS AND ENCLOSED SPACES. FLOOR FINISHES SHALL BE CLASS II OR BETTER.



BALLOON END WALL DETAIL

NTS

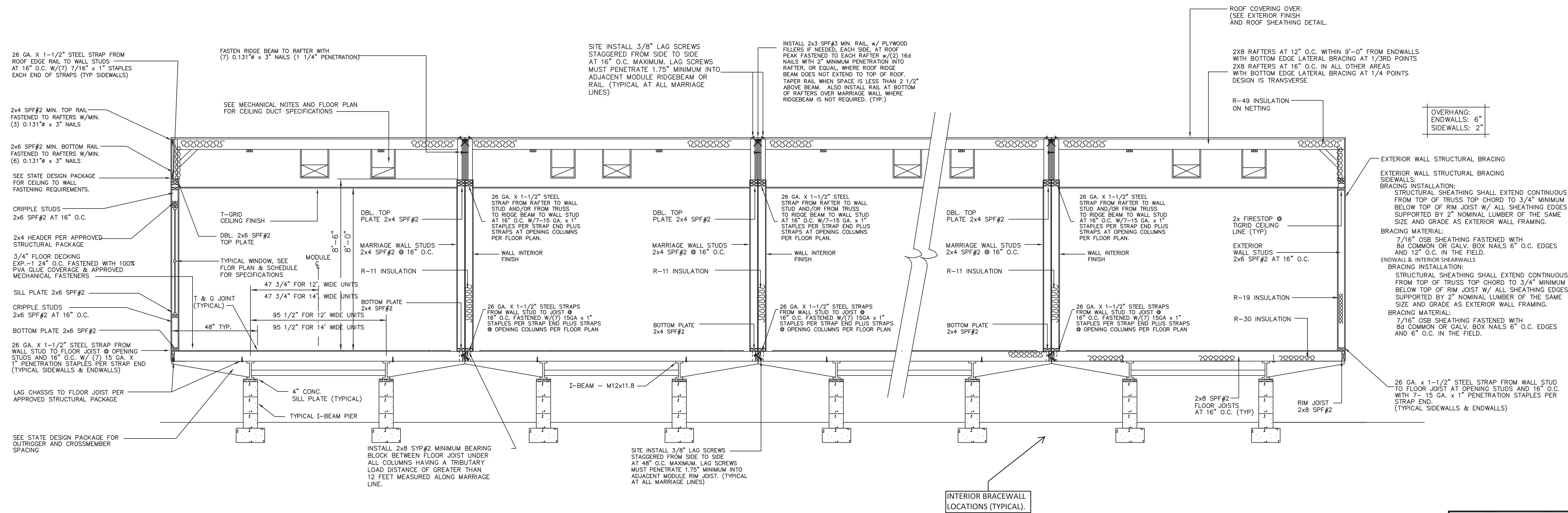


ROOF SHEATHING FASTENED TO RAFTERS W/0,099"Ø x 2" NAILS AT 6" O.C. ON EDGES & 6" O.C. IN THE FIELD ON ALL ZONES

ROOF SHEATHING DETAIL

SEE DBI DESIGN PACKAGE PAGES FOR DIAGONAL BRACING AND ROOF JOIST GUSSET DETAILS.
C35.0-35.3 (2015 IBC)
C36.0-36.3 (2018 IBC)

NOTE: T-GRID MUST BE INSTALLED PER MANUFACTURERS SPECIFICATIONS FOR SEISMIC ZONE 'D' REQUIREMENTS



GENERAL CROSS-SECTION NOTES:

- UNLESS OTHERWISE SPECIFIED, ALL STEEL MUST COMPLY W/ ASTM A36, YIELD STRENGTH = 36 KSI.
- ALL LAG SCREWS MUST COMPLY W/ ANSI/ ASME B18.2.1. F_y = 60 KSI MINIMUM.
- SEE FOUNDATION PLAN FOR PIER AND TIE-DOWN STRAPPING LOCATIONS, ORIENTATIONS, AND SPECIFICATIONS.

● TYPICAL FOUNDATION LAYOUT SHOWN IS TO AID THE SITE ENGINEER/ARCHITECT FOR ENGINEER/ARCHITECT FOR LOCATIONS OF REQUIRED SUPPORTS. ACTUAL FOUNDATION MUST BE DESIGNED TO SITE CONDITIONS FOR ALL APPLICABLE LOADS. THIS INCLUDES BUT IS NOT LIMITED TO CONSTRUCTION OF THE FOUNDATION, SEISMIC DESIGN AND ATTACHING THE BUILDING TO THE FOUNDATION, ALONG WITH THE RESISTANCE TO LATERAL, LONGITUDINAL SHEAR, UPLIFT AND DOWNWARD FORCES IN BOTH DIRECTIONS. TYPICAL FOUNDATION IS NOT INTENDED TO BE ALL INCLUSIVE, NOR DOES THIS SET DETAIL EVERY CODE REQUIRED ASPECT OF THIS BUILDING. COMPLIANCE WITH ALL APPLICATED CODES PER LOCAL AUTHORITY HAVING JURISDICTION WHETHER DETAILED IN THIS SET OR NOT MUST BE MET.

PRODUCT APPROVAL INFORMATION:

1. CECCO DOORS	- FLA#	4553-R13
2. DOUGLASS METAL HI-RIB STEEL	- FLA#	
3. LIPPERT STRAPS	- RADCO LISTING#	1235
4. (MULEHIDE) ROOF	- FLA#	10703.1-R9
		INTERTEK REPORT CCCR-1078
5. WINDOWS (PLY GEM)	- FLA#	15329.1-R5



RIDGE BEAM CONSTRUCTION:
(SEE FLOOR PLAN) 3/4" PLYWOOD, RATED SHEATHING, EXP-1, STRUCT-1, 5 PLY'S LAYER, 48/24 EACH HALF CONTINUOUS ENTIRE LENGTH OF CLEARSPAN.

NOTES:

- PLYWOOD FACE GRAIN MUST BE PARALLEL TO THE RIDGE BEAM SPAN.
- ALL PLYWOOD BUTT JOINTS MUST BE STAGGERED 24" MINIMUM.
- ALL RIDGE BEAM PLYWOOD LAMINATIONS MUST BE THE SAME DEPTH, THICKNESS, AND GRADE OF PLYWOOD. NO LUMBER OR PLYWOOD FLANGES ARE PERMITTED.
- PLYWOOD MUST BE MANUFACTURED IN ACCORDANCE W/ 25-45.
- PLYWOOD LAMINATIONS IN EACH HALF OF THE UNITS MUST BE GLUE NAILED TO ADJACENT LAYERS IN ACCORDANCE W/ PDS SUPPLEMENT FS, W/ AN ADHESIVE COMPLYING W/ ASTM D2559, OR CA25-4.
- PLYWOOD MUST NOT BE TREATED W/ A FIRE RETARDANT PROCESS.
- MOISTURE CONTENT MUST BE LESS THAN 16%.
- BEAMS SUPPORTED BY ENDWALL COLUMNS MUST EXTEND CONTINUOUS OVER COLUMNS TO EXTERIOR FACE OF ENDWALL.
- INSTALL (2x4) X 20" SPF#3 RIDGE BEAM BEARING STIFFENER OVER SUPPORT COLUMNS, WHEN SPECIFIED ON FLOOR PLAN. FASTEN THE FACE OF THE STIFFENER TO THE RIDGE BEAM W/ 100% GLUE COVERAGE AND (6) 16 GA. X 2-1/2" STAPLES.

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121'-0" x 64'-0" EDUCATION
CROSS SECTION 6 OF 6

● TYPICAL FOUNDATION LAYOUT SHOWN IS TO AID THE SITE ENGINEER/ARCHITECT FOR ENGINEER/ARCHITECT FOR LOCATIONS OF REQUIRED SUPPORTS. ACTUAL FOUNDATION MUST BE DESIGNED TO SITE CONDITIONS FOR ALL APPLICABLE LOADS. THIS INCLUDES BUT IS NOT LIMITED TO CONSTRUCTION OF THE FOUNDATION, SEISMIC DESIGN AND ATTACHING THE BUILDING TO THE FOUNDATION, ALONG WITH THE RESISTANCE TO LATERAL, LONGITUDINAL SHEAR, UPLIFT AND DOWNWARD FORCES IN BOTH DIRECTIONS. TYPICAL FOUNDATION IS NOT INTENDED TO BE ALL INCLUSIVE, NOR DOES THIS SET DETAIL EVERY CODE REQUIRED ASPECT OF THIS BUILDING. COMPLIANCE WITH ALL APPLICATED CODES PER LOCAL AUTHORITY HAVING JURISDICTION WHETHER DETAILED IN THIS SET OR NOT MUST BE MET.

NOTICE TO FOUNDATION CONTRACTOR:
 ALL DIMENSIONS, DETAILS AND NOTES ON THIS FOUNDATION PLAN MUST BE REVIEWED AND VERIFIED BY THE FOUNDATION CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION OF THE FOUNDATION. ANY APPARENT CONFLICTS, ERRORS OR OMISSIONS MUST BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL FOR RESOLUTION PRIOR TO PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR MUST OBTAIN APPROVAL OF THE FOUNDATION PLAN FROM THE LOCAL BUILDING DEPARTMENT PRIOR TO COMMENCING CONSTRUCTION AND MUST COMPLY WITH ALL STATE AND LOCAL CODE, APPROVAL AND INSPECTION REQUIREMENTS. EMC IS NOT THE DESIGNER OF THE BUILDING OR THE FOUNDATION AND IS NOT RESPONSIBLE OR LIABLE FOR ANY CONFLICTS, ERRORS, OMISSIONS OR FAILURES TO COMPLY WITH STATE OR LOCAL CODES.

MARRIAGE WALL PIER REQUIREMENTS

PIER NUMBER	MINIMUM SOIL BEARING CAPACITY	PIER TYPE	NUMBER OF VERTICAL TIE-DOWN STRIPS (EACH MODULE)
1	2000 PSF	D	1
	3000 PSF	C	1
	4000 PSF	C	1

NOTE:
 THIS FOUNDATION PLAN IS PROVIDED FOR REFERENCE AS A TYPICAL STANDARD. ACTUAL FOUNDATION CONDITIONS MUST BE EVALUATED FOR APPLICABILITY IF THIS PLAN IS TO BE USED. ALTERNATE FOUNDATION PLANS MAY BE DESIGNED BY OTHERS IN ACCORDANCE WITH THE REQUIREMENTS OF THE JURISDICTION HAVING AUTHORITY.

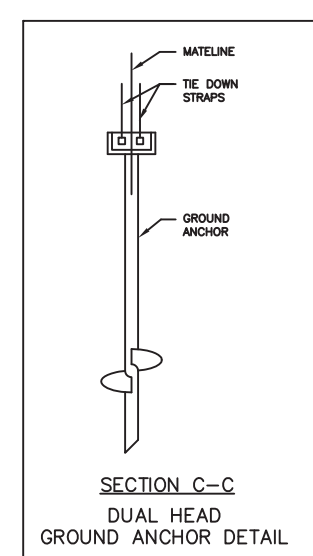
FOUNDATION ENCLOSURE (WHEN PROVIDED) MUST HAVE 1 SQUARE FOOT NET VENT AREA PER 1/10TH OF THE FLOOR AREA, AND AN 18" X 24" MINIMUM DRAIN SPACE ACCESS, SITE INSTALLED BY OTHERS SUBJECT TO LOCAL JURISDICTION.

NOTE:
 THE NUMBER OF PIERS SHOWN ON THIS FOUNDATION PLAN IS NO INDICATION OF THE AMOUNT OF PIERS REQUIRED FOR THIS BUILDING. SEE MAXIMUM PIER SPACING CHART TO THE RIGHT FOR THE CORRECT NUMBER OF PIERS REQUIRED FOR EACH SOIL BEARING CAPACITY.

FOUNDATION DIMENSIONS

A MODULE WIDTH	B PIER TO MODULE EDGE	C STEEL BEAM SPACING
11'-8"	22 1/4"	95 1/2"

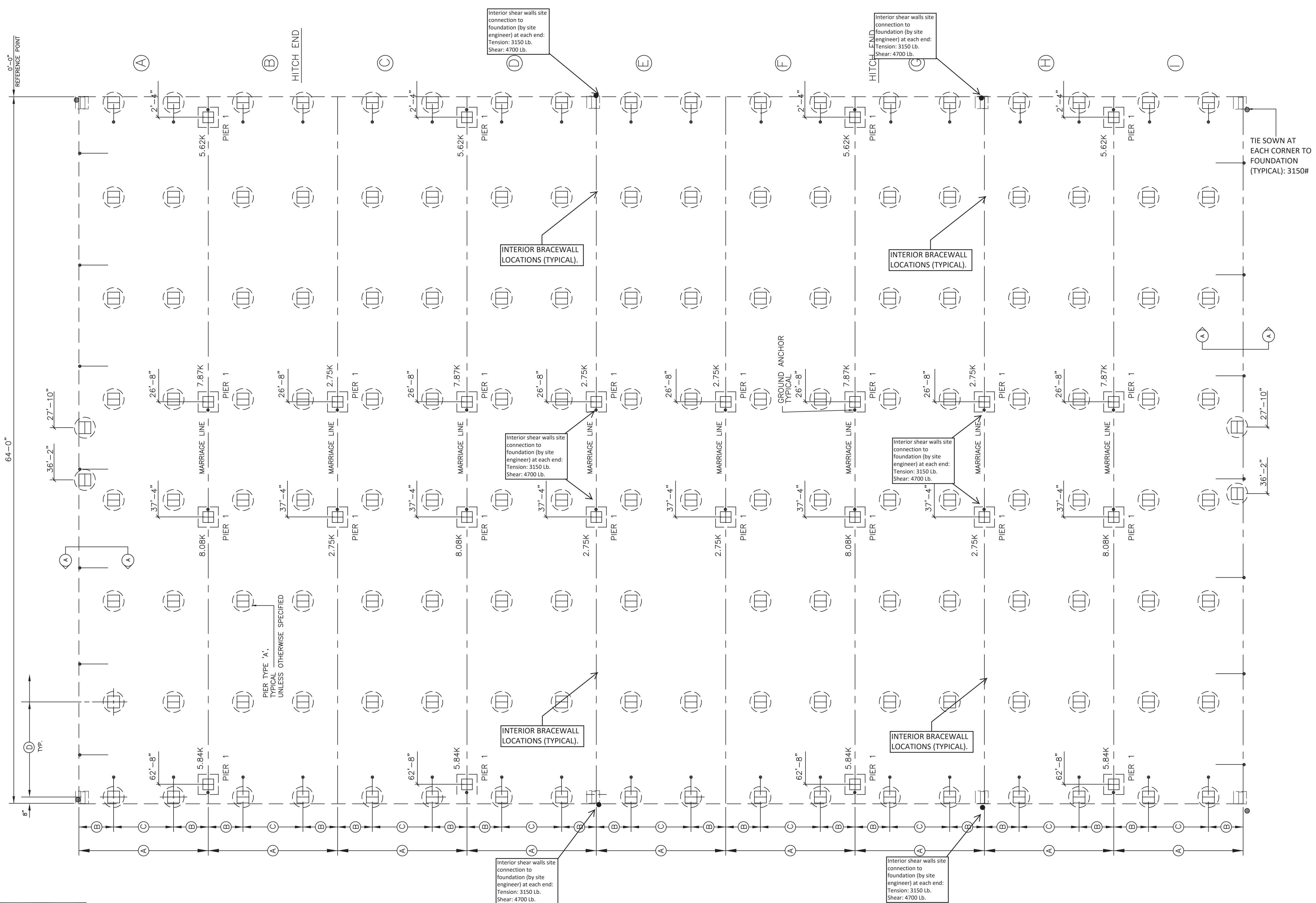
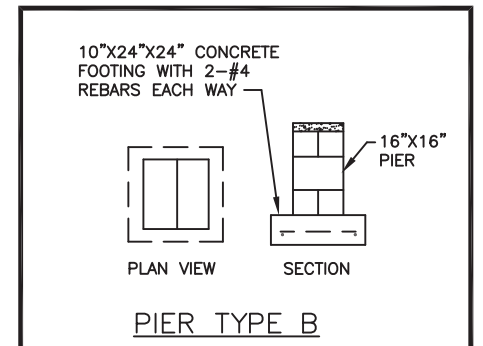
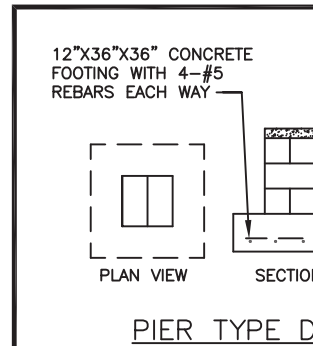
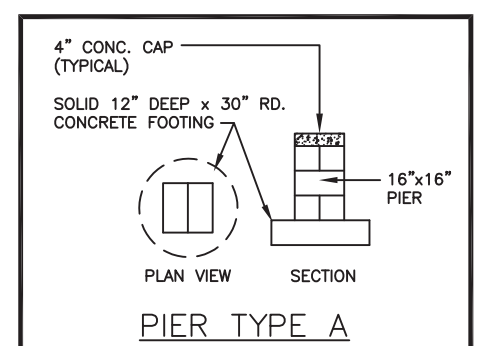
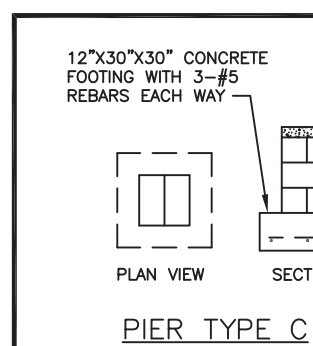
D MAXIMUM PIER SPACING	MINIMUM SOIL BEARING CAPACITY	KFP LOAD
9'-0"	2000 PSF	5.5 K
9'-0"	3000 PSF	5.5 K



FOUNDATION DIMENSIONS

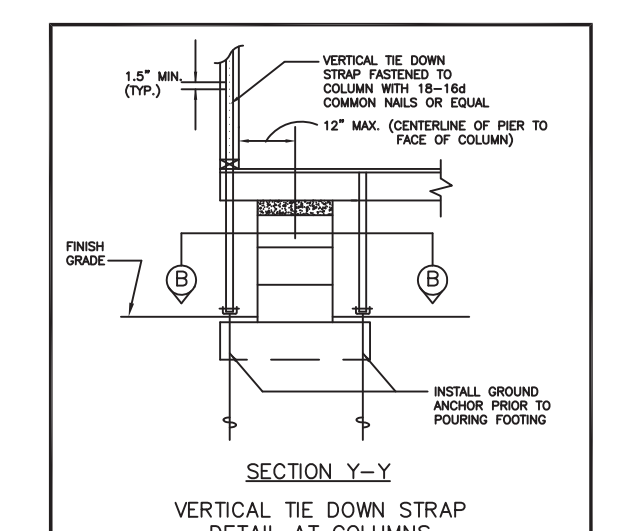
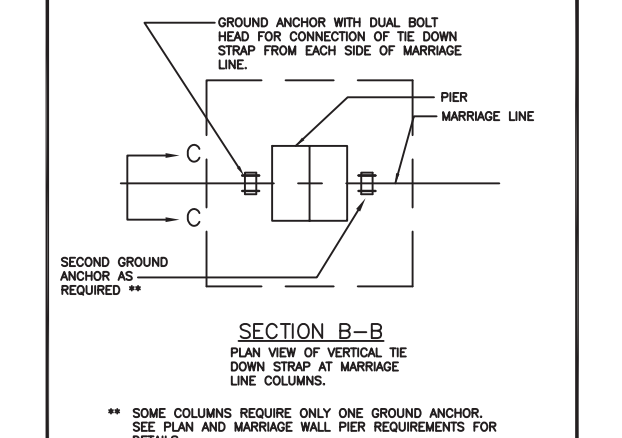
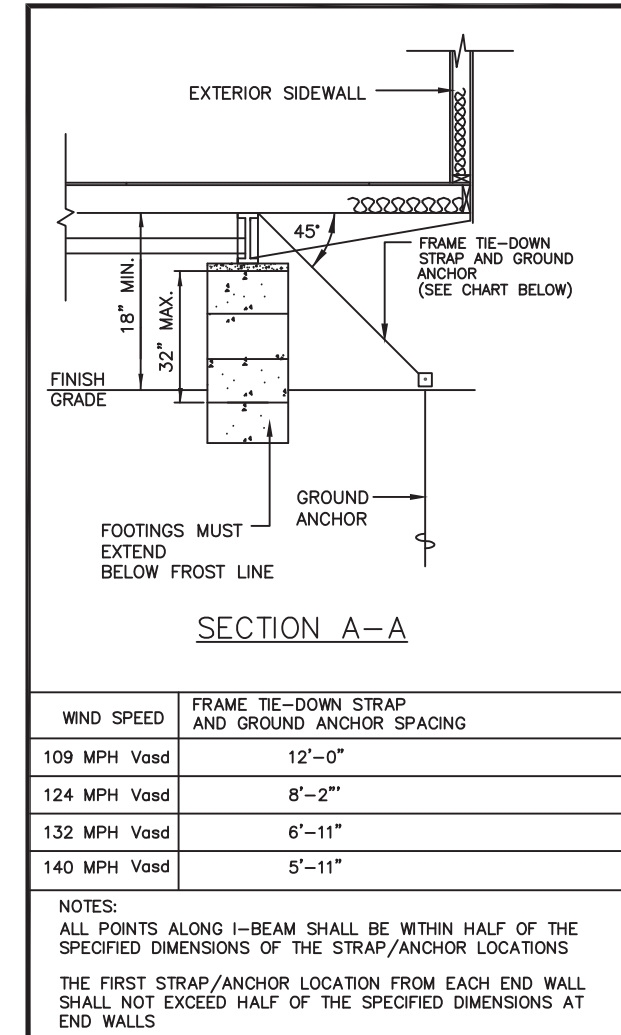
A MODULE WIDTH	B PIER TO MODULE EDGE	C STEEL BEAM SPACING
13'-8"	34 1/4"	95 1/2"

D MAXIMUM PIER SPACING	MINIMUM SOIL BEARING CAPACITY	KFP LOAD
9'-0"	2000 PSF	6.4 K
9'-0"	3000 PSF	6.4 K

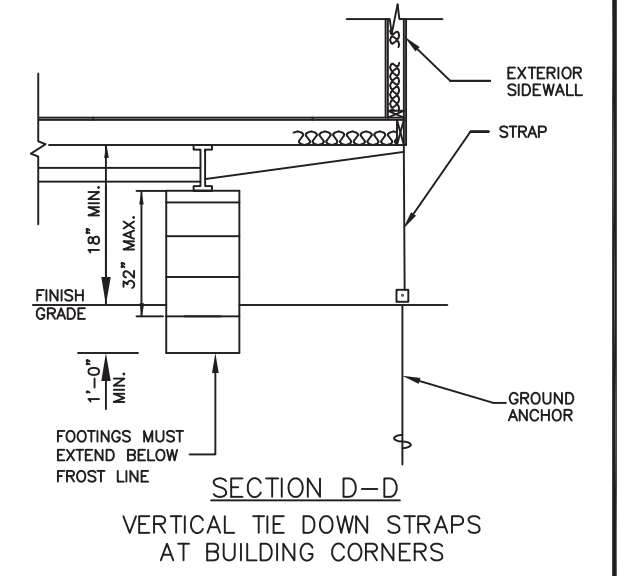
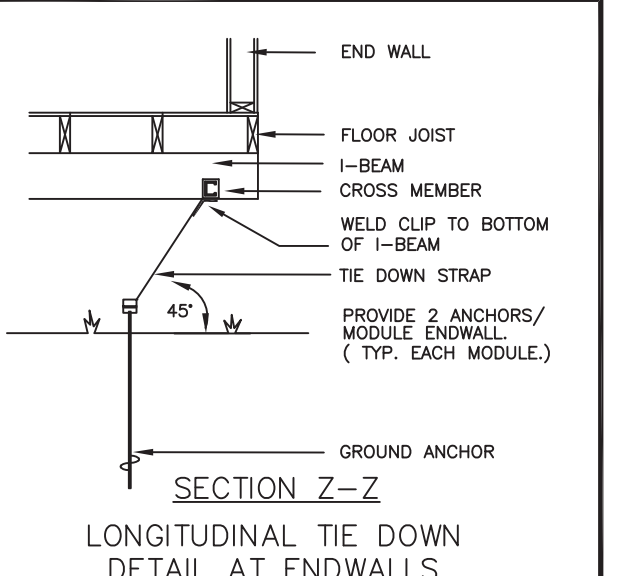


FOUNDATION NOTES:

- ALL FOUNDATION CONSTRUCTION, MATERIALS, AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.
- TIE-DOWN STRAPS TO BE 1-1/4" TYPE-1, FINISH B, GRADE 1 ZINC COATED STEEL STRAPPING CERTIFIED BY A REGISTERED ENGINEER OR ARCHITECT AS CONFORMING WITH ASTM D3353-91. TIE-DOWN STRAPS AND CONNECTING HARDWARE SHALL HAVE 3150# MINIMUM WORKING CAPACITY. NO LESS THAN THE SUM OF THE REQUIRED WORKING CAPACITIES OF ALL TIE-DOWN STRAPS CONNECTED TO THE GROUND ANCHOR, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. DESIGN OF GROUND ANCHORS, INCLUDING SHAFT LENGTH, NUMBER AND DIAMETER OF HELICES, ETC., TO BE AS SPECIFIED BY THE GROUND ANCHOR MANUFACTURER FOR THE ACTUAL SOIL TYPE ENCOUNTERED. IF THE HOLDING OR PULLOUT CAPACITIES OF GROUND ANCHORS ARE BELOW THE ASSUMED DESIGN VALUES, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR AN ALTERNATE ANCHORAGE DESIGN.
- EACH GROUND ANCHOR SHALL HAVE A WORKING CAPACITY NO LESS THAN THE SUM OF THE REQUIRED WORKING CAPACITIES OF ALL TIE-DOWN STRAPS CONNECTED TO THE GROUND ANCHOR, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. DESIGN OF GROUND ANCHORS, INCLUDING SHAFT LENGTH, NUMBER AND DIAMETER OF HELICES, ETC., TO BE AS SPECIFIED BY THE GROUND ANCHOR MANUFACTURER FOR THE ACTUAL SOIL TYPE ENCOUNTERED. IF THE HOLDING OR PULLOUT CAPACITIES OF GROUND ANCHORS ARE BELOW THE ASSUMED DESIGN VALUES, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR AN ALTERNATE ANCHORAGE DESIGN.
- THE FIRST TIE-DOWN STRAP FROM ENDWALLS SHALL NOT EXCEED 1/2 THE MAXIMUM SPACING INDICATED.
- ALL PIERS SHALL BE CONSTRUCTED OF CONCRETE MASONRY UNITS CONFORMING TO ASTM C90. MASONRY UNITS SHALL BE LAID IN TYPE M OR S MORTAR OR COVERED WITH SURFACE BONDING AGENT INSTALLED IN ACCORDANCE WITH ITS LISTING. PIER FOOTINGS SHALL BE AS DESCRIBED ABOVE.
- MINIMUM CONCRETE FOOTING COMPRESSIVE STRENGTH 2,500 PSI AT 28 DAYS.
- ALL REINFORCEMENT BARS SHALL COMPLY WITH ASTM A615, GRADE 60. REINFORCEMENT BARS SHALL BE EQUALLY SPACED AND PLACED WITH 3" CLEARANCE FROM BOTTOM AND SIDES OF THE FOOTING.
- SEE SHEET 1 OF 6 FOR BUILDING DESIGN LOADS.
- I-BEAM SUPPORT PIERS MAY BE INSTALLED LATERALLY 90° FROM THE ORIENTATION SHOWN ON THE FOUNDATION PLAN. CENTERLINE OF EACH PIER MUST BE LOCATED DIRECTLY BELOW THE I-BEAM CENTERLINE.
- SOIL BEARING CAPACITY SHOWN ON THIS PLAN IS ASSUMED. IF THE ACTUAL SOIL BEARING CAPACITY IS LESS THAN 2,000 PSF, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR REQUIRED ALTERNATE FOUNDATION DESIGN. FOOTINGS SHALL BE PLACED ON NON-EXPANSIVE SOILS ONLY.
- INSTALL BLOCK PIER ON EACH SIDE OF ALL EXTERIOR DOOR OPENINGS. (MANUFACTURER'S RECOMMENDATION ONLY - OPTIONAL, WHEN NOT SHOWN) SLIGHT ADJUSTMENT MAY BE REQUIRED TO INSURE OPENABILITY AFTER INSTALLATION OF BUILDING IS COMPLETE.
- THE FOUNDATION DIMENSIONS SHOWN ON THE ABOVE LAYOUT ARE NOMINAL. DIMENSIONS OF THE FACTORY BUILT MODULES AND DO NOT ACCOUNT FOR GAPS BETWEEN MODULES THAT MAY OCCUR DURING INSTALLATION. THE FOUNDATION DESIGNER, FOUNDATION CONTRACTOR AND MODULAR BUILDING INSTALLER MUST CONSULT TO DETERMINE IF ADJUSTMENTS TO PIER LOCATIONS ARE NEEDED TO ACCOUNT FOR TOLERANCES NEEDED DURING INSTALLATION OF THE BUILDING MODULES.
- THE AREA UNDER FOOTINGS AND FOUNDATIONS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATERIALS REMOVED PRIOR TO THEIR CONSTRUCTION.
- THE CONTRACTOR MUST VERIFY ALL FLOOR DIMENSIONS BEFORE STARTING THE PLACEMENT OF ALL FOOTERS AND GROUND ANCHORS.



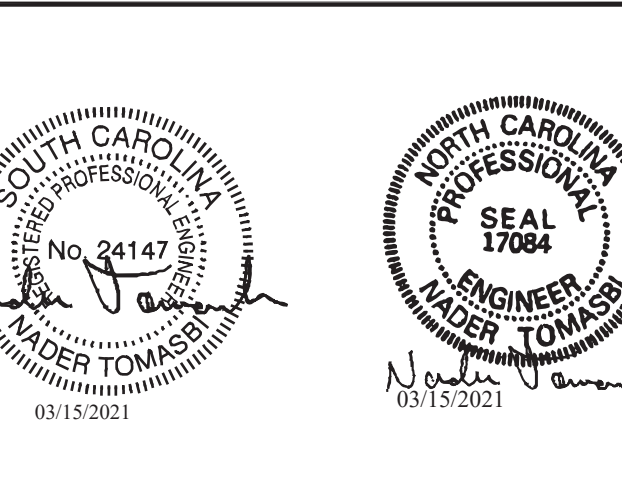
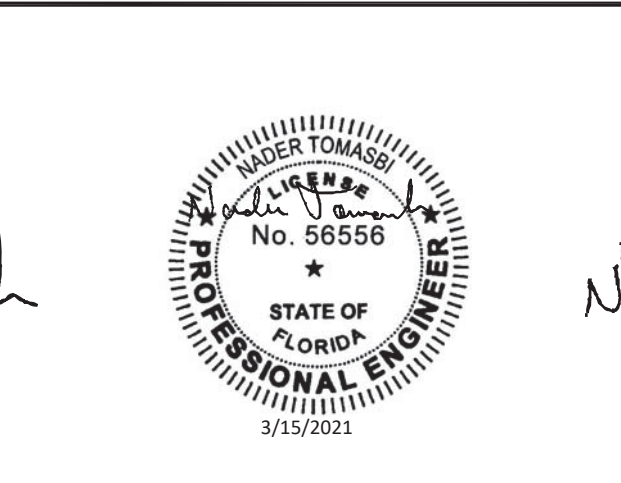
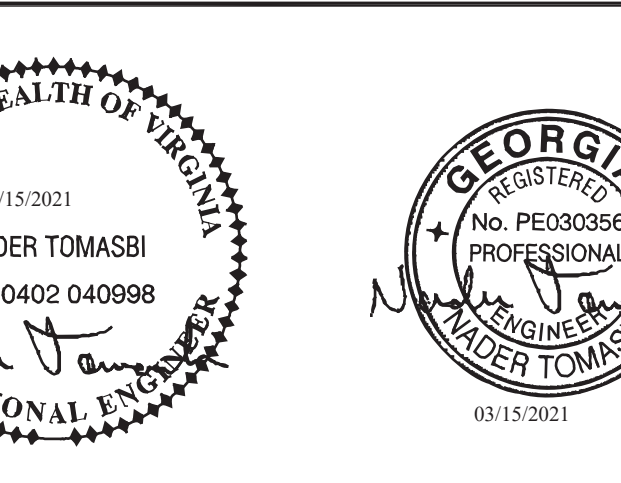
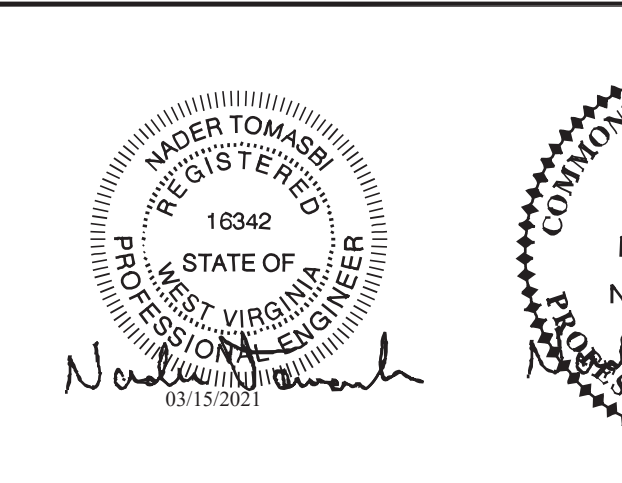
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NOTE:
 THIS FOUNDATION PLAN IS BASED UPON SEISMIC DESIGN CATEGORY C CONDITIONS. IF THE MODULAR BUILDING INSTALLATION SITE REQUIRES SEISMIC DESIGN CATEGORY D CONDITIONS, THEN A SITE SPECIFIC FOUNDATION PLAN MUST BE DESIGNED BY A QUALIFIED PROFESSIONAL, AND IS SUBJECT TO REVIEW AND APPROVAL BY THE LOCAL AUTHORITY HAVING JURISDICTION.



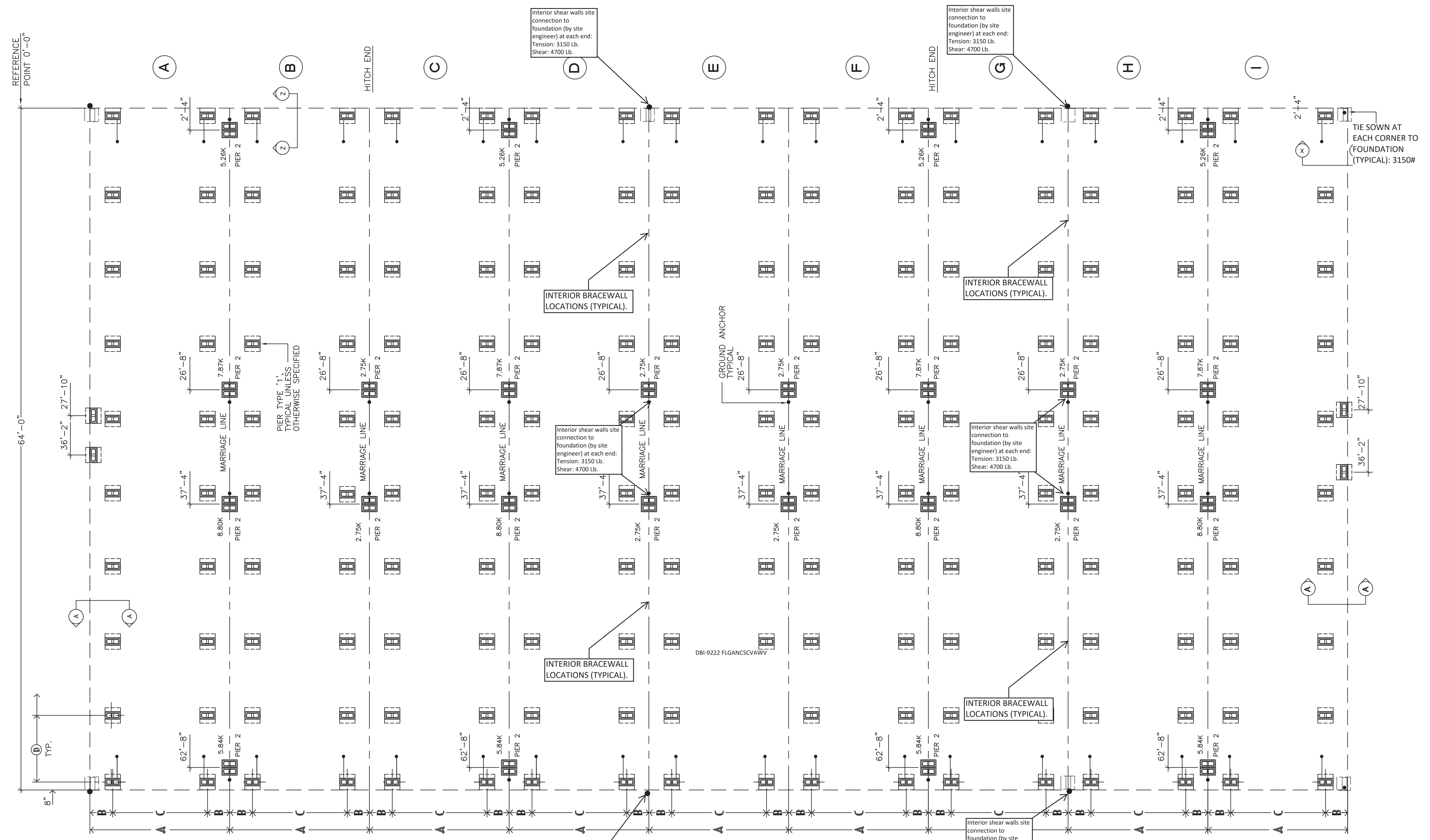
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DB19222 A-1
 121'-0" x 64'-0" EDUCATION
 FOUNDATION 1 OF 1



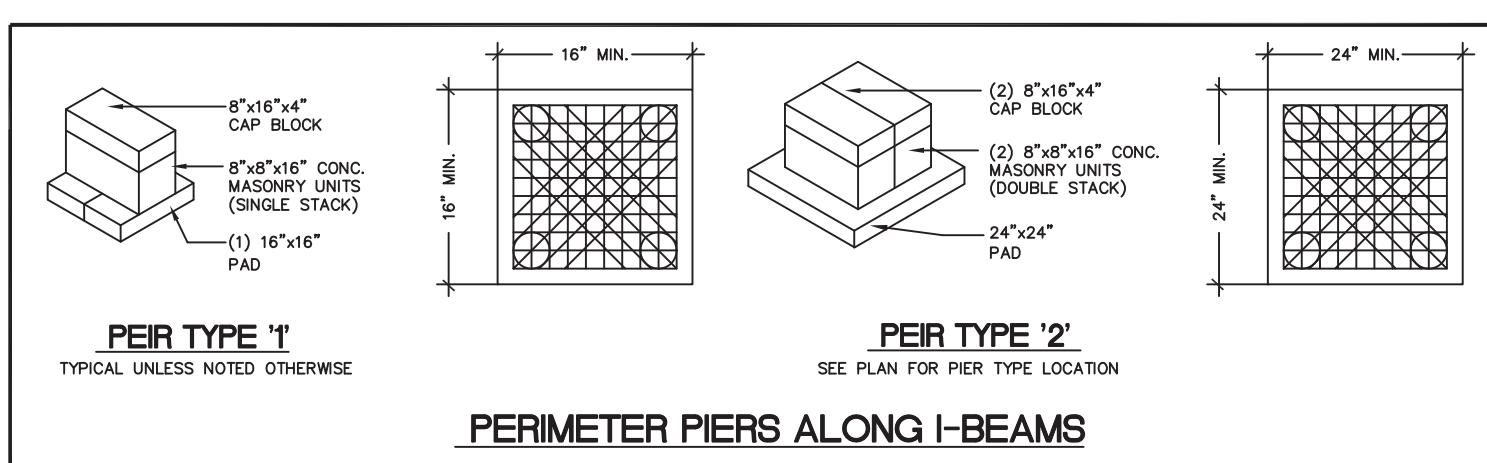
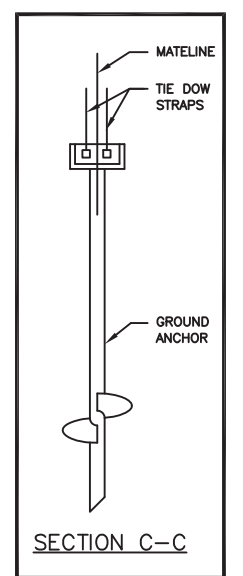
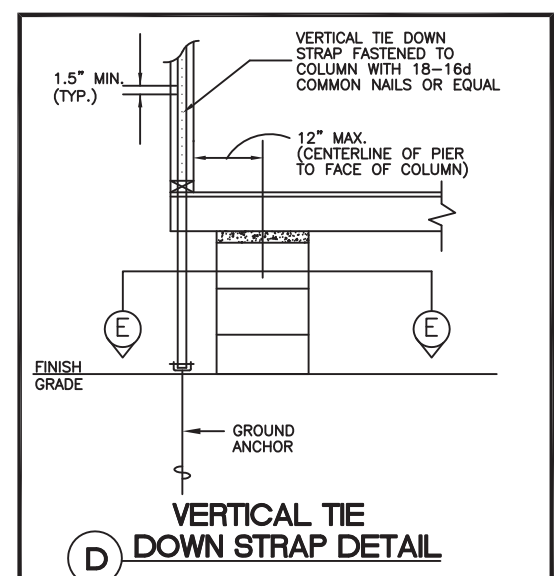
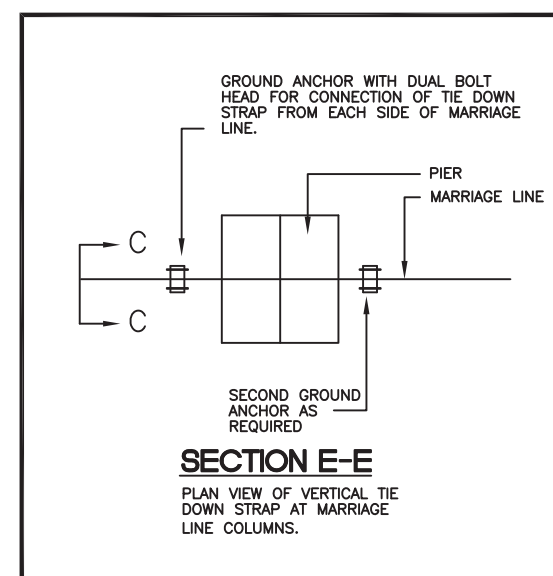
PIER TYPE SCHEDULE			
PIER TYPE	ABS PAD SIZE	MAX. PAD CAPACITY (LBS)	
		2000 PSF	3000 PSF
PIER TYPE 1	16 x 16 ABS PAD	3,956 SGL. STACK	5,333 SGL. STACK
PIER TYPE 2	24 x 24 ABS PAD	8,000 DBL. STACK	8,000 DBL. STACK
PIER TYPE 3	34 x 22 ABS MULTI-PAD	10,000 DBL. STACK	
PIER TYPE 4	35 x 25.5 ABS MULTI-PAD	12,000 DBL. STACK	
PIER TYPE 5	24 x 24 PPA**	8,000 DBL. STACK	12,000 DBL. STACK

** POLYPROPYLENE & FIBERGLASS PAD BY POLYULC USA, INC

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FOUNDATION NOTES:

- ALL FOUNDATION CONSTRUCTION MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.
- TI-DOWN STRAPS TO BE 1-1/4" 035 TYPE-1, FINISH B, GRADE 1 ZINC COATED STEEL STRAPPING CERTIFIED BY A REGISTERED ENGINEER OR ARCHITECT AS CONFORMING WITH ASTM D3953-91. TI-DOWN STRAPS AND CONNECTING HARDWARE SHALL HAVE 3150# MINIMUM WORKING CAPACITY.
- EACH CONCRETE ANCHOR SHALL HAVE A WORKING CAPACITY NO LESS THAN THE SUM OF THE REQUIRED WORKING CAPACITIES OF ALL TI-DOWN STRAPS CONNECTED TO THE CONCRETE ANCHOR AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. DESIGN OF CONCRETE ANCHOR, INCLUDING SHAFT LENGTH, NUMBER AND DIAMETER OF REBARS, ETC., TO BE AS SPECIFIED BY THE CONCRETE ANCHOR MANUFACTURER FOR THE ACTUAL SOIL TYPE ENCOUNTERED. IF THE HOLDING OR PULLOUT CAPACITIES OF CONCRETE ANCHORS ARE BELOW THE ASSUMED DESIGN VALUES, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR AN ALTERNATE ANCHORAGE DESIGN.
- THE FIRST TI-DOWN STRAP FROM ENDWALLS SHALL NOT EXCEED 1/2 THE MAXIMUM SPACING INDICATED.
- INSTALL BLOCK PIER ON EACH SIDE OF ALL EXTERIOR DOOR OPENINGS. (MANUFACTURER'S RECOMMENDATION ONLY - OPTIONAL WHEN NOT SHOWN) SLIGHT ADJUSTMENT MAY BE REQUIRED TO INSURE OPENABILITY AFTER INSTALLATION IS COMPLETE.
- THE AREA UNDER FOOTINGS AND FOUNDATIONS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATERIALS REMOVED PRIOR TO THEIR CONSTRUCTION.
- SEE SHEET 1 OF 6 FOR BUILDING DESIGN LOADS.
- I-BEAM SUPPORT PIERS MAY BE INSTALLED LATERALLY (90° FROM THE ORIENTATION SHOWN ON THE FOUNDATION PLAN). CENTERLINE OF EACH PIER MUST BE LOCATED DIRECTLY BELOW THE I-BEAM CENTERLINE.
- SOIL BEARING CAPACITY SHOWN ON THIS PLAN IS ASSUMED. IF THE ACTUAL SOIL BEARING CAPACITY IS LESS THAN 3000 PSF, THE ARCHITECT/ENGINEER MUST BE CONSULTED FOR REQUIRED ALTERNATE FOUNDATION DESIGN. FOOTINGS SHALL BE PLACED ON NON-EXPANSIVE SOILS ONLY.
- THE FOUNDATION DIMENSIONS SHOWN ON THE ABOVE LAYOUT ARE NOMINAL DIMENSIONS OF THE FACTORY BUILT MODULES AND DO NOT ACCOUNT FOR GAPS BETWEEN MODULES THAT MAY OCCUR DURING INSTALLATION. THE FOUNDATION DESIGNER, FOUNDATION CONTRACTOR AND MODULAR BUILDING INSTALLER MUST CONSULT TO DETERMINE IF ADJUSTMENTS TO PIER LOCATIONS ARE NEEDED TO ACCOUNT FOR TOLERANCES NEEDED DURING INSTALLATION OF THE BUILDING MODULES.
- THE CONTRACTOR MUST VERIFY ALL FLOOR DIMENSIONS BEFORE STARTING THE PLACEMENT OF ALL FOOTERS AND GROUND ANCHORS.

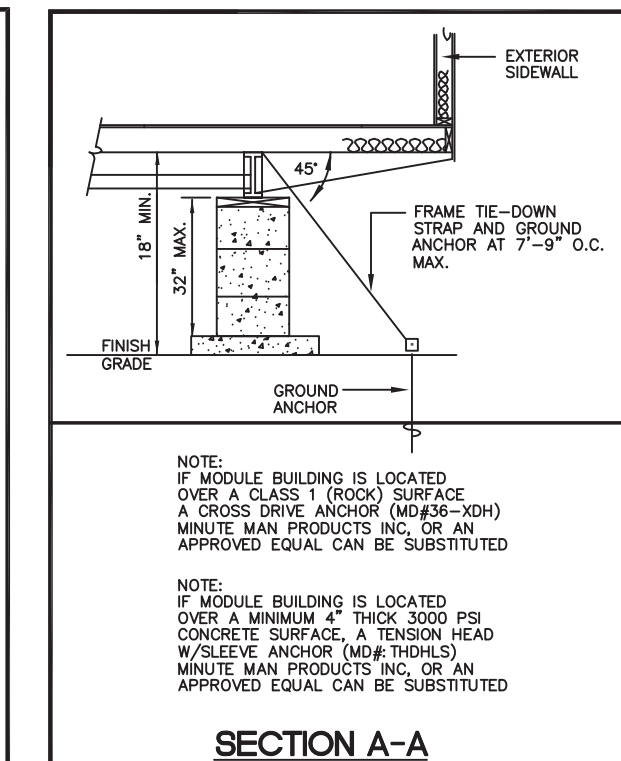
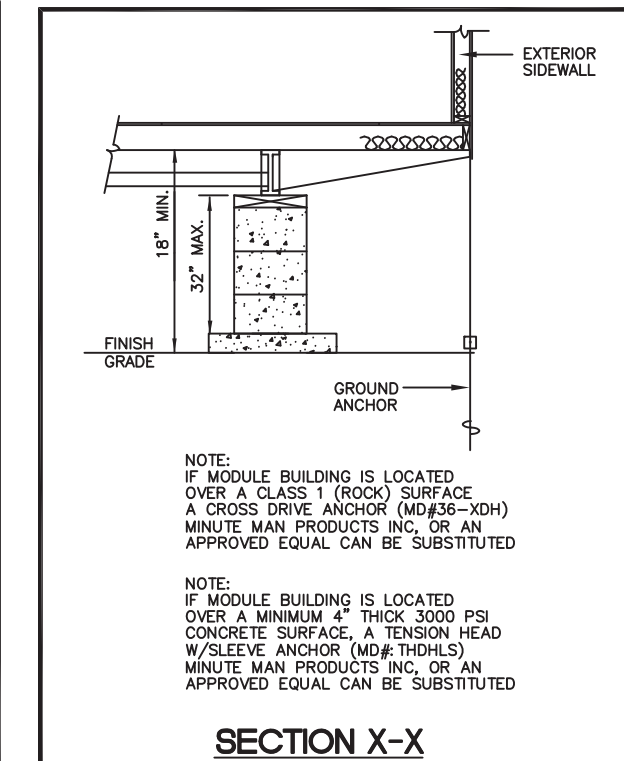
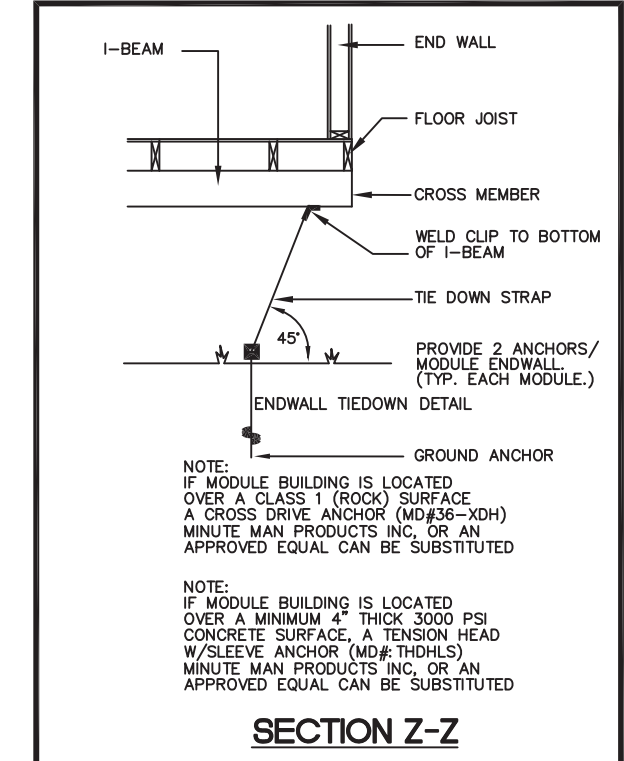


FOUNDATION ENCLOSURE (WHEN PROVIDED) MUST HAVE 1 SQUARE FOOT NET VENT AREA PER 1/100TH OF THE FLOOR AREA, AND AN 18" x 24" MINIMUM CRAWL SPACE ACCESS, SITE INSTALLED BY OTHERS SUBJECT TO LOCAL JURISDICTION.

NOTE:
THE NUMBER OF PIERS SHOWN ON THIS FOUNDATION PLAN IS NO INDICATION OF THE AMOUNT OF PIERS REQUIRED AND NEEDED FOR THIS BUILDING. SEE MAXIMUM PIER SPACING CHART TO THE RIGHT FOR THE CORRECT NUMBER OF PIERS REQUIRED FOR EACH SOIL BEARING CAPACITY.

A MODULE WIDTH	B PIER TO MODULE EDGE	C STEEL BEAM SPACING
11'-8"	22 1/4"	95 1/2"
5'-8"	3.9K	3000 PSF
8'-0"	4.9K	4000 PSF

A MODULE WIDTH	B PIER TO MODULE EDGE	C STEEL BEAM SPACING
13'-8"	34 1/4"	95 1/2"
5'-0"	3.5K	3000 PSF
7'-6"	5.2K	4000 PSF



NOTICE TO FOUNDATION CONTRACTOR:
ALL DIMENSIONS, DETAILS AND NOTES ON THIS FOUNDATION PLAN MUST BE REVIEWED AND VERIFIED BY THE FOUNDATION CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION OF THE FOUNDATION. ANY APPARENT CONFLICTS, ERRORS OR OMISSIONS MUST BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL FOR RESOLUTION PRIOR TO PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR MUST OBTAIN APPROVAL OF THE FOUNDATION PLAN FROM THE LOCAL BUILDING DEPARTMENT PRIOR TO COMMENCING CONSTRUCTION AND MUST COMPLY WITH ALL STATE AND LOCAL CODE, APPROVAL AND INSPECTION REQUIREMENTS. EMC IS NOT THE DESIGNER OF THE BUILDING OR THE FOUNDATION AND IS NOT RESPONSIBLE OR LIABLE FOR ANY CONFLICTS, ERRORS, OMISSIONS OR FAILURES TO COMPLY WITH STATE OR LOCAL CODES.

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REGISTERED PROFESSIONAL ENGINEER
STATE OF VIRGINIA
10342
NADER TOMASBI
No. 0402 040998
03/15/2021

REGISTERED PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. PE030356
NADER TOMASBI
03/15/2021

REGISTERED PROFESSIONAL ENGINEER
STATE OF SOUTH CAROLINA
No. 34147
NADER TOMASBI
03/15/2021

REGISTERED PROFESSIONAL ENGINEER
STATE OF SOUTH CAROLINA
No. 34147
NADER TOMASBI
03/15/2021

CONSULTING ENGINEER: NADER TOMASBI, P.E. - 58665 GLENRIVER DRIVE - GOSHEN, IN. 46528 - 574-370-3419

DIAMOND BUILDERS INC.
P.O. BOX 2200 440 THOMPSON DR.
DOUGLASS, GEORGIA 31534 (912) 384-7080

DATE: 2-28-21 THE CITADEL
SCALE: NO SCALE 171 MOULTRIE STREET
CODES: SEE NOTES CHARLESTON, SC. 29409
STATES: FL, GA, NC, SC, REVISIONS: N.T.
VA, W.VA. R.E.G.

DBI9222 A-1
121'-0" x 64'-0" EDUCATION
ALT. FOUNDATION SHEET 1 OF 1