

Describe proposed activity/use: The project consists of building a new Elementary School facility in Rochester, NH that has
a footprint of approximately 45,750 SF. The work is anticipated to start in Spring 2024, and be completed by Fall 2025.

Describe existing conditions/use (vacant land?): The land is primarily wooded and vacant with some residential buildings
including an existing home, shed, and other small structures.

Utility information

City water? yes ☒ no ☐; How far is City water from the site? Accessible at Driveway connection

City sewer? yes ☒ no ☐; How far is City sewer from the site? +/- 2,000 ft

If City water, what are the estimated total daily needs? 7,500 gallons per day

If City water, is it proposed for anything other than domestic purposes? yes ☐ no ☒

If City sewer, do you plan to discharge anything other than domestic waste? yes ☐ no ☒

Where will stormwater be discharged? Via overland flow to an unnamed wetland at the rear of the project area.

Building information

Type of building(s): New Elementary Facility

Building height: 50 ft Finished floor elevation: 323.00

Other information

parking spaces: existing: 0 total proposed: 71; Are there pertinent covenants? no

Number of cubic yards of earth being removed from the site none anticipated

Number of existing employees: n/a; number of proposed employees total: 55

Check any that are proposed: variance ☐; special exception ☐; conditional use ☐

Wetlands: Is any fill proposed? No; area to be filled: ; buffer impact? Yes

Proposed <u>post-development</u> disposition of site (should total 100%)		
	Square footage	% overall site
Building footprint(s) – give for each building	45,750	3
Parking and vehicle circulation	145,840	8
Planted/landscaped areas (excluding drainage)	307,250	17
Natural/undisturbed areas (excluding wetlands)	661,110	36
Wetlands approximate	629,000	34
Other – drainage structures, outside storage, etc.	40,000	2

Comments

Please feel free to add any comments, additional information, or requests for waivers here:

Submission of application

This application must be signed by the property owner, applicant/developer (if different from property owner), and/or the agent.

I (we) hereby submit this Site Plan application to the City of Rochester Planning Board pursuant to the City of Rochester Site Plan Regulations and attest that to the best of my knowledge all of the information on this application form and in the accompanying application materials and documentation is true and accurate. As applicant/developer (if different from property owner)/as agent, I attest that I am duly authorized to act in this capacity.

Signature of property owner: _____

Date: _____

Signature of applicant/developer: _____

Date: _____

Signature of agent: _____

Date: 1/22/24

Authorization to enter subject property

I hereby authorize members of the Rochester Planning Board, Zoning Board of Adjustment, Conservation Commission, Planning Department, and other pertinent City departments, boards and agencies to enter my property for the purpose of evaluating this application including performing any appropriate inspections during the application phase, review phase, post-approval phase, construction phase, and occupancy phase. This authorization applies specifically to those particular individuals legitimately involved in evaluating, reviewing, or inspecting this specific application/project. It is understood that these individuals must use all reasonable care, courtesy, and diligence when entering the property.

Signature of property owner: _____

Date: _____

Site Plan Checklist (residential and nonresidential)

**To be filled out by applicant/agent (with notes to be inserted by staff)*

See regulations for other specific requirements
City of Rochester Planning & Development Department

Project Name: Proposed Elementary School Map: 227 Lot: 35 & 36 Date: 12/12/2023

Applicant/agent: Tighe & Bond c/o Eric Doremus Signature: 

(Staff review by: _____ Date: _____)

General items

	Yes	No	N/A	Waiver Requested	Comments
<u>4</u> sets completed application	☒	☐	☐	☐	_____
Total application fee	☐	☐	☒	☐	City of Rochester is applicant _____
<u>4</u> copies of narrative	☒	☐	☐	☐	_____
<u>3</u> sets of full-size plans	☒	☐	☐	☐	_____
<u>2</u> sets of 11 X 17 reductions	☒	☐	☐	☐	_____
Completed abutters list	☒	☐	☐	☐	_____
Copy of existing covenants, easements, deed restrictions	☒	☐	☐	☐	_____

Plan Information

Basic information including:	☒	☐	☐	☐	_____
• Title sheet					
• Name of Project					
• Date					
• North arrow					
• Scale					
• Legend					
• Revision block					
• Vicinity sketch -not less than 1" = 1,000'					
Name and address of developer/applicant	☒	☐	☐	☐	_____
Name, stamp, and NH license # of land survey, engineer, and/or architect	☒	☐	☐	☐	_____
City tax map & lot #'s	☒	☐	☐	☐	_____
Notation on plans: "For more information about this site plan contact...."	☒	☐	☐	☐	_____

General items Continued

	Yes	No	N/A	Waiver Requested	Comments
Approval block (for signature by staff attesting to Planning Board approval)	☒	☐	☐	☐	_____
References to neighboring plans and subdivisions	☒	☐	☐	☐	_____
Surveyed property lines including: • existing and proposed bearings • existing and proposed distances • pins, stakes, bounds • monuments • benchmarks	☒	☐	☐	☐	_____
Include error of closure statement	☒	☐	☐	☐	_____
Information on abutting properties: • owner name • owner address • tax map and lot # • square footage of lots • approximate building footprints • use	☒	☐	☐	☐	_____

Zoning

Zoning designations of subject tract and in vicinity of tract	☒	☐	☐	☐	_____
Zoning requirements for district: • frontage • lot dimensions/density • all setbacks • lot coverage	☒	☐	☐	☐	_____
Zoning overlay districts	☒	☐	☐	☐	_____

Existing Topographic Features:

Contour lines a (not to exceed two-foot Intervals, except on steep slopes) and spot elevations	☒	☐	☐	☐	_____
Soil types and boundaries	☒	☐	☐	☐	See drainage report. _____
Soil test pit locations, profiles, and Depth to water table and ledge	☒	☐	☐	☐	See drainage report. _____
Percolation test locations and results	☒	☐	☐	☐	See drainage report. _____

Existing Topographic Features Continued:

	Yes	No	N/A	Waiver Requested	Comments
Water features (ponds, streams)	☒	☐	☐	☐	
Wetlands including name of certified Wetlands scientist who delineated	☒	☐	☐	☐	
Statement whether located in flood area, And if so, 100 year flood elevation	☒	☐	☐	☐	
Delineation of trees and open areas	☒	☐	☐	☐	
Overview of types of trees and vegetation	☒	☐	☐	☐	See Alteration of Terrain Application included.
Stone walls and archaeological features	☒	☐	☐	☐	
Locations of trails and paths	☒	☐	☐	☐	
Other natural/cultural resources (productive farmland, habitats, scenic views, historic structures, etc)	☐	☐	☒	☐	none known.

Building Information

Existing buildings/structures including square footage and use	☒	☐	☐	☐	
Proposed building/structures including • square footage • first floor elevation • use • # bedrooms per unit if residential	☒	☐	☐	☐	
Elevation drawing of proposed buildings and structures as follows: • Showing all four sides • Drawn to scale with dimensions • Showing exterior materials • Showing exterior colors	☒	☐	☐	☐	

Circulation and Parking Plans

Existing and proposed driveways and access points including: • Width of opening • Turning radii • Cross section of driveway	☒	☐	☐	☐	
Curbing & edge treatment	☒	☐	☐	☐	
Traffic control devices, if appropriate:	☒	☐	☐	☐	

Circulation and Parking Plans Continued:

	Yes	No	N/A	Waiver Requested	Comments
Number of parking spaces	☒	☐	☐	☐	_____
• required by ordinance					
• proposed					
Parking layout and dimensions of spaces	☒	☐	☐	☐	_____
Handicap spaces	☒	☐	☐	☐	_____
Loading area	☒	☐	☐	☐	_____
Pedestrian circulation plan (including existing sidewalks in vicinity, if any)	☒	☐	☐	☐	_____
Bicycle rack, if appropriate	☒	☐	☐	☐	_____
Buffers, landscaping & screening	☒	☐	☐	☐	_____
Snow storage areas/plan	☒	☐	☐	☐	_____

Utilities

Show all pertinent existing and proposed profiles, elevations, materials, sizes, and details

Water lines/well (with protective radius)	☒	☐	☐	☐	_____
Sewer lines/septic and leaching areas	☒	☐	☐	☐	_____
Pump stations	☒	☐	☐	☐	_____
Stormwater management system: pipes, culverts,, catch basins detention/ retention basins, swales, rip rap, etc.	☒	☐	☐	☐	_____
Fire hydrant location(s) and details	☒	☐	☐	☐	_____
Electric, telephone, cable TV (underground or overhead)	☒	☐	☐	☐	_____
Gas lines	☒	☐	☐	☐	_____
Fire alarm connections	☒	☐	☐	☐	_____
Treatment of solid waste (dumpsters?)	☒	☐	☐	☐	_____
Handling of oil, grease, chemicals hazardous materials/waste	☒	☐	☐	☐	_____

Landscaping Plan

	Yes	No	N/A	Waiver Requested	Comments
Demarcation of limits of construction, clear delineation of vegetation to be saved, and strategy for protecting vegetation	☒	☐	☐	☐	_____
Proposed ground cover, shrubbery, and trees including: • botanical and common names • locations and spacing • total number of each species • size at installation	☒	☐	☐	☐	_____
Planting plan (size of holes, depth of planting, soil amendments, etc.)	☒	☐	☐	☐	_____
Irrigation: system? soaker hose? Manual? underground, etc.	☐	☒	☐	☐	None proposed at this time. _____
Protection of landscaping from vehicles (Curb stops, berm, railroad ties, etc)	☒	☐	☐	☐	_____
Specification all finished ground surfaces and edges (greenspace, mulch, asphalt, concrete, etc.)	☒	☐	☐	☐	_____
Fencing/screening	☐	☒	☐	☐	None proposed at this time. _____

Signage

Location and type of signs: • Attached to building • Freestanding • Directional, if appropriate	☒	☐	☐	☐	Traffic and circulation signage included _____
Dimensions of signs: • Height • Area • Setback	☒	☐	☐	☐	_____
Elevation drawings with colors & materials	☐	☐	☒	☐	_____
Type of Illumination, if proposed	☐	☐	☒	☐	_____

Outdoor Lighting

	Yes	No	N/A	Waiver Requested	Comments
Locations	☒	☐	☐	☐	_____
Height of fixtures	☒	☐	☐	☐	_____
Wattage	☒	☐	☐	☐	_____
Type of light (high pressure sodium, etc)	☒	☐	☐	☐	_____
Design/cut sheets of fixtures	☒	☐	☐	☐	_____
Illumination study, if appropriate	☒	☐	☐	☐	_____

Other Elements

Traffic study, if appropriate	☒	☐	☐	☐	_____
Drainage study with calculations, storm Water impact analysis, and mitigation plan	☒	☐	☐	☐	_____
Grading plan (including finish grades)	☒	☐	☐	☐	_____
Earth being removed from site(in cubic yards)	☐	☐	☒	☐	_____
Erosion and sedimentation plan	☒	☐	☐	☐	_____
Proposed covenants, easements, And deed restrictions, if any	☐	☐	☒	☐	_____
Fiscal impact study, if requested	☐	☐	☒	☐	_____

Additional Comments:

BAKER SAMUEL P JR & KATHE... 749 SALMON FALLS RD ROCHESTER, NH 03868	COLLINS R D REVOCABLE TRU... COLLINS FAMILY TRUST 90 WHITEHALL RD ROCHESTER, NH 03868	
WAYMAN RAYMOND L KIMPTON ELIZABETH A 55 IDA CIR ROCHESTER, NH 03868	PERRY MARK T 759 SALMON FALLS RD ROCHESTER, NH 03868-5922	
VARNEY ERIC M 59 IDA CIR ROCHESTER, NH 03868	PERRY DENNIS W 767 SALMON FALLS RD ROCHESTER, NH 03868-5922	
MURTAGH FAMILY TRUST % MURTAGH TAMMY R & THOMAS... 71 IDA CIR ROCHESTER, NH 03868	WALSH ROBERT J BURNHAM CHARLES W 51 IDA CIR ROCHESTER, NH 03868	
J&L TERRA HOLDINGS INC 79 EXETER RD N HAMPTON, NH 03862-2002	CITY OF ROCHESTER 31 WAKEFIELD ST ROCHESTER, NH 03867	
DAUDELIN LEE 727 SALMON FALLS RD ROCHESTER, NH 03868-5922	DICARLO ROBERT J 737 SALMON FALLS RD ROCHESTER, NH 03868-5922	
JERRAM COLBY CHRISTOPHE... 721 SALMON FALLS RD ROCHESTER, NH 03868		
GULLISON JENNIFER 65 IDA CIR ROCHESTER, NH 03867		
TARA ESTATES MHC LLC 1910 TERRACINA DR SACRAMENTO, CA 95834		
TOWLE FAMILY REVOCABLE TR... TOWLE ROBERT B & ANDREA ... 750 SALMON FALLS RD ROCHESTER, NH 03868		

S-5197-002
January 23, 2024

Ms. Shanna B. Saunders, Director
City of Rochester Department of Planning and Development
City Hall Annex
33 Wakefield Street
Rochester New Hampshire 03867-1917

Re: **Nonresidential Site Plan Application
Rochester School District – Proposed Elementary School**

Dear Shanna:

On behalf of Rochester School District, we are pleased to submit the following information to support the site plan review of a proposed elementary school located at the 753 and 749 Salmon Falls Road:

- Four (4) copies of the Nonresidential Site Plan Application, dated January 23, 2024;
- Four (4) copies of 11" x 17" half-sized copies of the Site Plan Set, dated January 23, 2024, folded;
- Three (3) copies of full-sized copies of the Site Plan Set, dated January 23, 2024;
- Two (2) copies of the Drainage Report, dated January 23, 2024;
- Two (2) copies of the Traffic Impact Study, dated November 20, 2023;
- One (1) copy of the Site Plan Checklist, dated January 23, 2024;
- One (1) copy of the abutter's list;
- One (1) copy of the fixture cut sheets;

Project Narrative

The proposed project is the construction of a new approximately 68,000 SF two-story Elementary School and associated site improvements as part of the Rochester School Administration Unit 54. The project is located along Salmon Falls Road on the property identified as Map 227, Lot 35 and 36 on the City of Rochester Tax Maps. The total area of the combined parcels is approximately 42.1 acres. Lot 35 or 753 Salmon Falls Road is owned by the City of Rochester. Lot 36 or 749 Salmon Falls Road is currently owned by separate landowners who are currently under contract to sell the parcel to the City for purposes of this development. The total proposed development area is approximately 11.0 acres. The construction of this new school is intended to accommodate up to 420 students to relieve overcrowding within its active schools and to improve educational equity for students. This project is supported by both state and local funding sources. The proposed project will require the construction of utilities, including water, sewer, telecom and electric.

We respectfully request to be placed on the Technical Review Group (TRG) meeting agenda for December 21, 2023. If you have any questions or need any additional information, please contact Alex Sellar by phone at (603) 433-8818 or by email at asellar@tighebond.com.

Sincerely,
TIGHE & BOND, INC.



Eric Doremus, PE
Project Manager



Bradlee Mezquita, PE
Vice President

Copy: Rochester School District

J:\S\S5197 SAU #54\002\Reports_Evaluation\Applications\20231212 TRG\Individual\S5197002 Cover Letter.docx

ROCHESTER ELEMENTARY SCHOOL

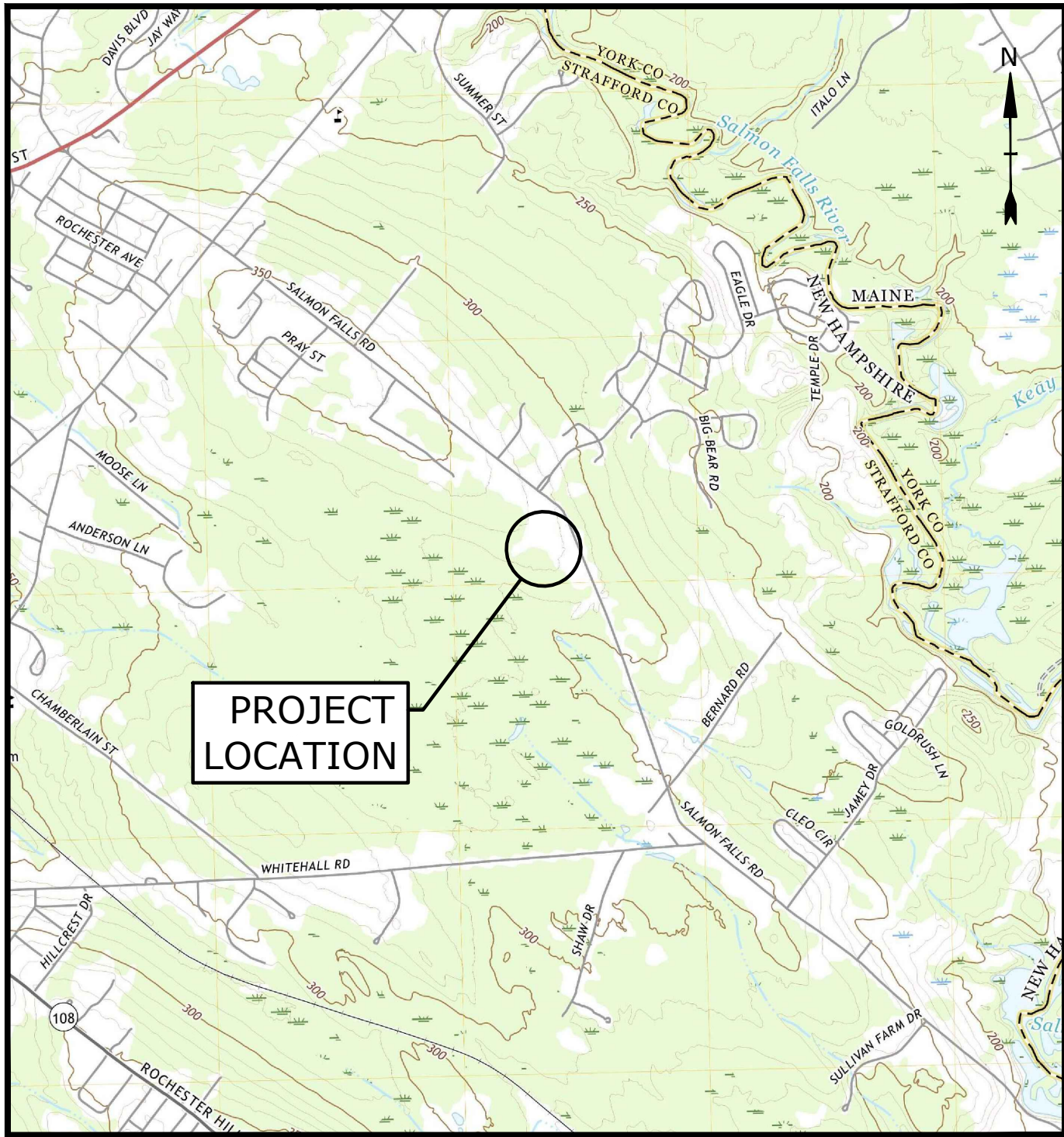
753 SALMON FALLS ROAD

ROCHESTER, NEW HAMPSHIRE

NOVEMBER 9, 2023

LAST REVISED: JANUARY 23, 2024

LIST OF DRAWINGS		
SHEET NO.	SHEET TITLE	LAST REVISED
	COVER SHEET	01/23/2024
1 OF 2	EXISTING CONDITIONS PLAN	01/12/2024
2 OF 2	EXISTING CONDITIONS PLAN	01/12/2024
G-100	GENERAL NOTES AND LEGEND	01/23/2024
C-101	EXISTING CONDITIONS & DEMOLITION PLAN	01/23/2024
C-102	SITE PLAN	01/23/2024
C-103	GRADING, DRAINAGE, AND EROSION CONTROL PLAN	01/23/2024
C-104	UTILITY PLAN	01/23/2024
C-105	LANDSCAPE PLAN	01/23/2024
C-201	OFF-SITE EXISTING CONDITIONS & DEMOLITION PLAN	01/23/2024
C-202	OFF-SITE SITE PLAN	01/23/2024
C-203	OFF-SITE GRADING, DRAINAGE, AND EROSION CONTROL PLAN	01/23/2024
C-204	OFF-SITE UTILITY PLAN	01/23/2024
C-501	EROSION CONTROL NOTES AND DETAILS SHEET	01/23/2024
C-502	DETAILS SHEET	01/23/2024
C-503	DETAILS SHEET	01/23/2024
C-504	DETAILS SHEET	01/23/2024
C-505	DETAILS SHEET	01/23/2024
C-506	DETAILS SHEET	01/23/2024
C-507	DETAILS SHEET	01/23/2024
C-508	DETAILS SHEET	01/23/2024
C-509	DETAILS SHEET	01/23/2024
C-510	DETAILS SHEET	01/23/2024
SL100	SITE PHOTOMETRIC PLAN	01/19/2024
A201	EXTERIOR ELEVATIONS - OVERALL	11/10/2023
A202	EXTERIOR ELEVATIONS - ENLARGED	11/10/2023
A203	EXTERIOR ELEVATIONS - ENLARGED	11/10/2023
A204	EXTERIOR ELEVATIONS - ENLARGED	11/10/2023



LOCATION MAP
SCALE: 1" = 2000'

CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL NOT RELY ON SCALED DIMENSIONS AND SHALL CONTACT THE ENGINEER FOR CLARIFICATION IF A REQUIRED DIMENSION IS NOT PROVIDED ON THE PLANS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND FOR SITE CONDITIONS THROUGHOUT CONSTRUCTION. NEITHER THE PLANS NOR THE SEAL OF THE ENGINEER AFFIXED HEREON EXTEND TO OR INCLUDE SYSTEMS REQUIRED FOR THE SAFETY OF THE CONTRACTOR, THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND IMPLEMENTING SAFETY PROCEDURES AND SYSTEMS AS REQUIRED BY THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND ANY STATE OR LOCAL SAFETY REGULATIONS.
3. TIGHE & BOND ASSUMES NO RESPONSIBILITY FOR ANY ISSUES LEGAL OR OTHERWISE, RESULTING FROM CHANGES MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION OF TIGHE & BOND.

FOR MORE INFORMATION ABOUT
THIS SITE PLAN CONTACT:

Tighe&Bond

177 CORPORATE DRIVE
PORTSMOUTH, NH 03801
603-433-8818

APPLICANT:

ROCHESTER SCHOOL DISTRICT
150 WAKEFIELD STREET, SUITE #8
ROCHESTER, NH 03867

SURVEYOR:

GREENMAN-PEDERSON, Inc.
21 DANIEL STREET, SECOND FLOOR
PORTSMOUTH, NH 03801

ARCHITECT:

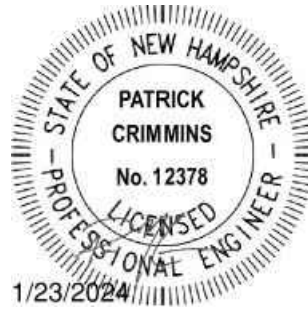
BANWELL ARCHITECTS
6 SOUTH PARK STREET
LEBANON, NH 03766

ENVIRONMENTAL CONSULTANT:

GOVE ENVIRONMENTAL SERVICES, Inc.
8 CONTINENTAL DRIVE, UNIT H
EXETER, NH 03833

FINAL APPROVAL
BY
ROCHESTER PLANNING BOARD
CERTIFIED BY: _____
DATE: _____

COMPLETE SET 28 SHEETS



NOTES:

- 1) ZONE: AGRICULTURAL DISTRICT (AG)
MIN. LOT SIZE: 20,000 Sq.Ft.
MIN. LOT FRONTAGE: 150 Ft.
SETBACKS:
FRONT 20 Ft.
SIDE 10 Ft.
REAR 20 Ft.
- 2) THIS PLAN IS THE RESULT OF AN ON-THE-GROUND FIELD SURVEY AND UAS SURVEY PERFORMED BY THIS OFFICE BETWEEN JUNE 19 AND DECEMBER 1, 2023. A PORTION OF THE PLANIMETRIC DETAIL AND PERMANENT PHYSICAL FEATURES SHOWN ON THIS PLAN WERE DIGITIZED FROM RECTIFIED ORTHOPHOTOGRAPHY DERIVED FROM AERIAL IMAGERY OBTAINED VIA UAS BY THIS OFFICE ON JUNE 15, 2023.
- 3) BEARINGS SHOWN HEREON ARE BASED ON NAD83 PER GPS OBSERVATIONS PERFORMED BY THIS OFFICE ON JUNE 19, 2023.
- 4) ELEVATIONS SHOWN HEREON ARE BASED ON NAVD88 PER GPS OBSERVATIONS PERFORMED BY THIS OFFICE ON JUNE 19, 2023.
- 5) LOCATION OF UNDERGROUND UTILITIES IS APPROXIMATE ONLY. ADDITIONAL UNDERGROUND UTILITIES OTHER THAN THOSE SHOWN MAY BE ENCOUNTERED. INVERTS ARE LISTED IN A CLOCKWISE DIRECTION ENDING WITH THE INVERT OUT (UNLESS OTHERWISE NOTED).
- 6) THE SURVEY TRACT IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (100 YEAR FLOOD) PER FLOOD INSURANCE RATE MAP NUMBER 33017C0216D, WITH AN EFFECTIVE DATE OF MAY 17, 2005.
- 7) JURISDICTIONAL WETLANDS DELINEATED BY BRENDAN QUIGLEY (CWS #249) OF GOVE ENVIRONMENTAL SERVICES, INC., ON JULY 11, 2023 IN ACCORDANCE WITH 1987 U.S. ARMY CORPS OF ENGINEERS WETLANDS DELINEATION MANUAL, TECHNICAL REPORT Y-87-1 AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTH CENTRAL AND NORTHEAST REGION (JANUARY 2012). THE WETLAND DELINEATION WAS LIMITED TO PORTIONS OF PARCELS 227-35 AND 227-36 SHOWN ON THE PLAN.
- 8) THIS SURVEY IS THE RESULT OF AN ACTUAL SURVEY PERFORMED ON THE GROUND AND HAS AN ERROR OF CLOSURE OF NO MORE THAN ONE PART IN TEN THOUSAND.

LEGEND

DSLY	DOUBLE SOLID LINE YELLOW
SSLW	SINGLE SOLID LINE WHITE
W	WATER LINE
90	CONTOUR ELEVATION
TREE	TREE
UTILITY POLE	UTILITY POLE
GUY WIRE	GUY WIRE
OVERHEAD WIRE	OVERHEAD WIRE
TREELINE	TREELINE
SIGN	SIGN
SPOT ELEVATION	SPOT ELEVATION
DRAIN MANHOLE	DRAIN MANHOLE
CATCH BASIN	CATCH BASIN
SEWER MANHOLE	SEWER MANHOLE
MANHOLE	MANHOLE
WATER VALVE	WATER VALVE
WATER SHUT OFF	WATER SHUT OFF
FIRE HYDRANT	FIRE HYDRANT
GAS METER	GAS METER
ELECTRIC METER	ELECTRIC METER
LIGHT POLE	LIGHT POLE
WETLAND LINE	WETLAND LINE
EASEMENT LINE	EASEMENT LINE
PROPERTY LINE	PROPERTY LINE
ABUTTER PROPERTY LINE	ABUTTER PROPERTY LINE

ADDITIONAL ABUTTERS:

PARCEL ID: 224-310-9
N/F ROBERT J WALSH, 51 IDA CIRCLE, ROCHESTER, NH 03868
BOOK 5074 PAGE 164
#51 IDA CIRCLE

PARCEL ID: 239-11
N/F COLLINS FAMILY TRUST, 90 WHITEHALL ROAD, ROCHESTER, NH 03868
BOOK 5072 PAGE 817
#0 CHAMBERLAIN STREET

UTILITY NOTES:

WATER SERVICE — WELL WATER

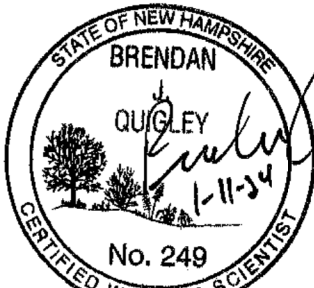
SEWER SERVICE — PUBLIC SEWER — MUNICIPAL

ELECTRICAL SERVICE — EVERSOURCE

PLAN REFERENCES:

STRAFFORD COUNTY REGISTRY OF DEEDS

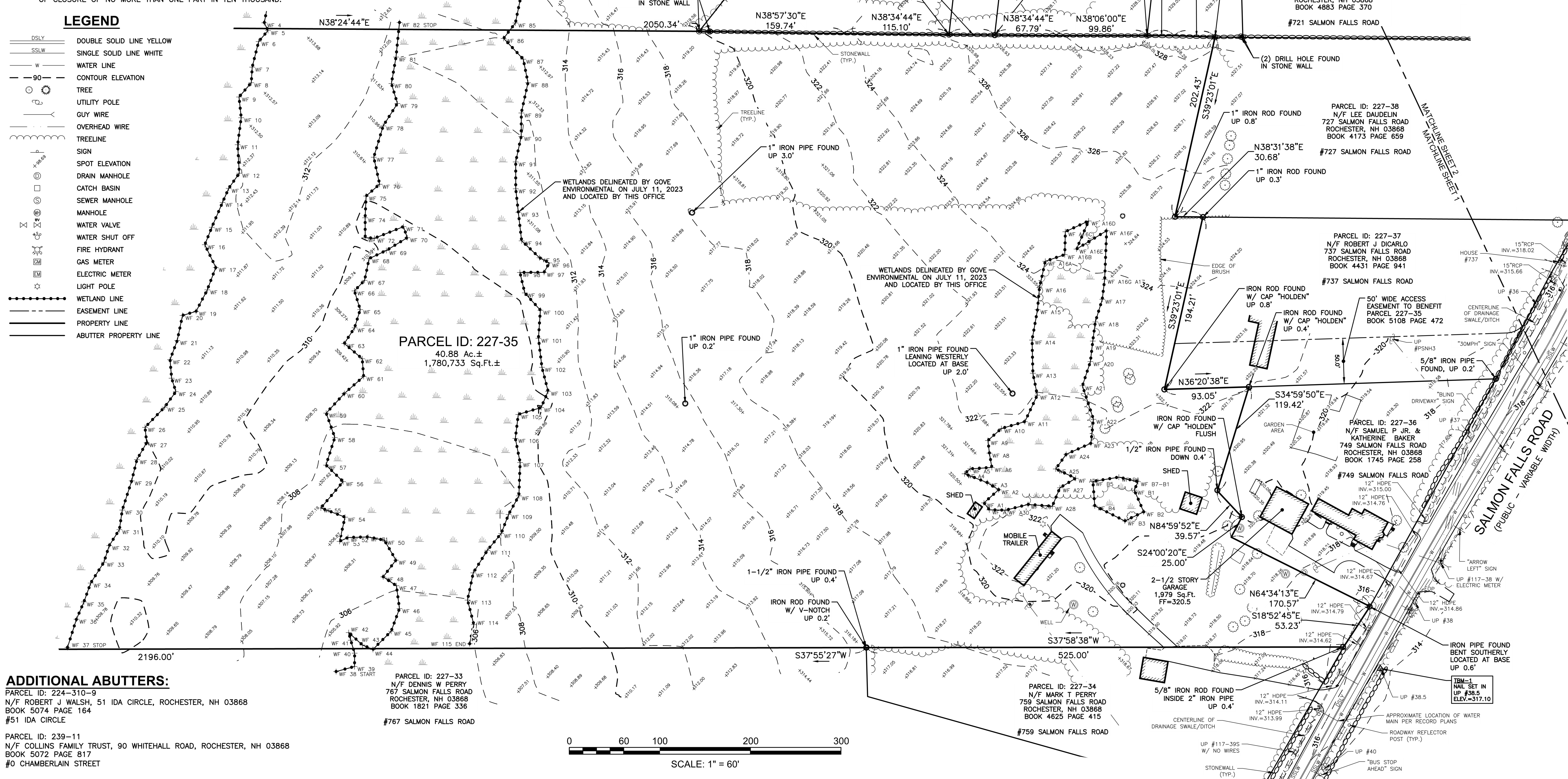
- 1) PLAN 118-019
- 2) PLAN 104-024
- 3) PLAN 24-117
- 4) PLAN 118-020
- 5) PLAN 118-021
- 6) PLAN 43 POCKET 1 FOLDER 4



PARCEL ID: 224-310-10
N/F RAYMOND L WAYMAN
55 IDA CIRCLE
ROCHESTER, NH 03868
BOOK 5022 PAGE 990

#55 IDA CIRCLE

(2) DRILL HOLE FOUND
IN STONE WALL



0 60 100 200 300
SCALE: 1" = 60'

UTILITY NOTES:

WATER SERVICE — WELL WATER

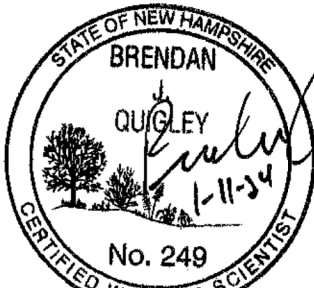
SEWER SERVICE — PUBLIC SEWER — MUNICIPAL

ELECTRICAL SERVICE — EVERSOURCE

PLAN REFERENCES:

STRAFFORD COUNTY REGISTRY OF DEEDS

- 1) PLAN 118-019
- 2) PLAN 104-024
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PARCEL ID: 224-310-10
N/F RAYMOND L WAYMAN
55 IDA CIRCLE
ROCHESTER, NH 03868
BOOK 5022 PAGE 990

#55 IDA CIRCLE

(2) DRILL HOLE FOUND
IN STONE WALL

OWNER OF RECORD:

PARCEL ID: 227-35
CITY OF ROCHESTER
31 WAKEFIELD STREET
ROCHESTER, NH 03867
BOOK 5108 PAGE 472

PARCEL ID: 227-35

753 SALMON FALLS ROAD
ROCHESTER, NEW HAMPSHIRE



1/12/2024

REVISIONS

NO.	REVISION	DATE
3.	UPDATED NOTE	1/12/24
2.	ADDITIONAL TOPO	1/4/24
1.	UPDATED NOTES	12/11/23
NO.	REVISION	DATE
OCTOBER 3, 2023		
DRAWN/DESIGN BY		CHECKED BY
DPD/CSS		AKC/SML

PARTIAL EXISTING CONDITIONS PLAN

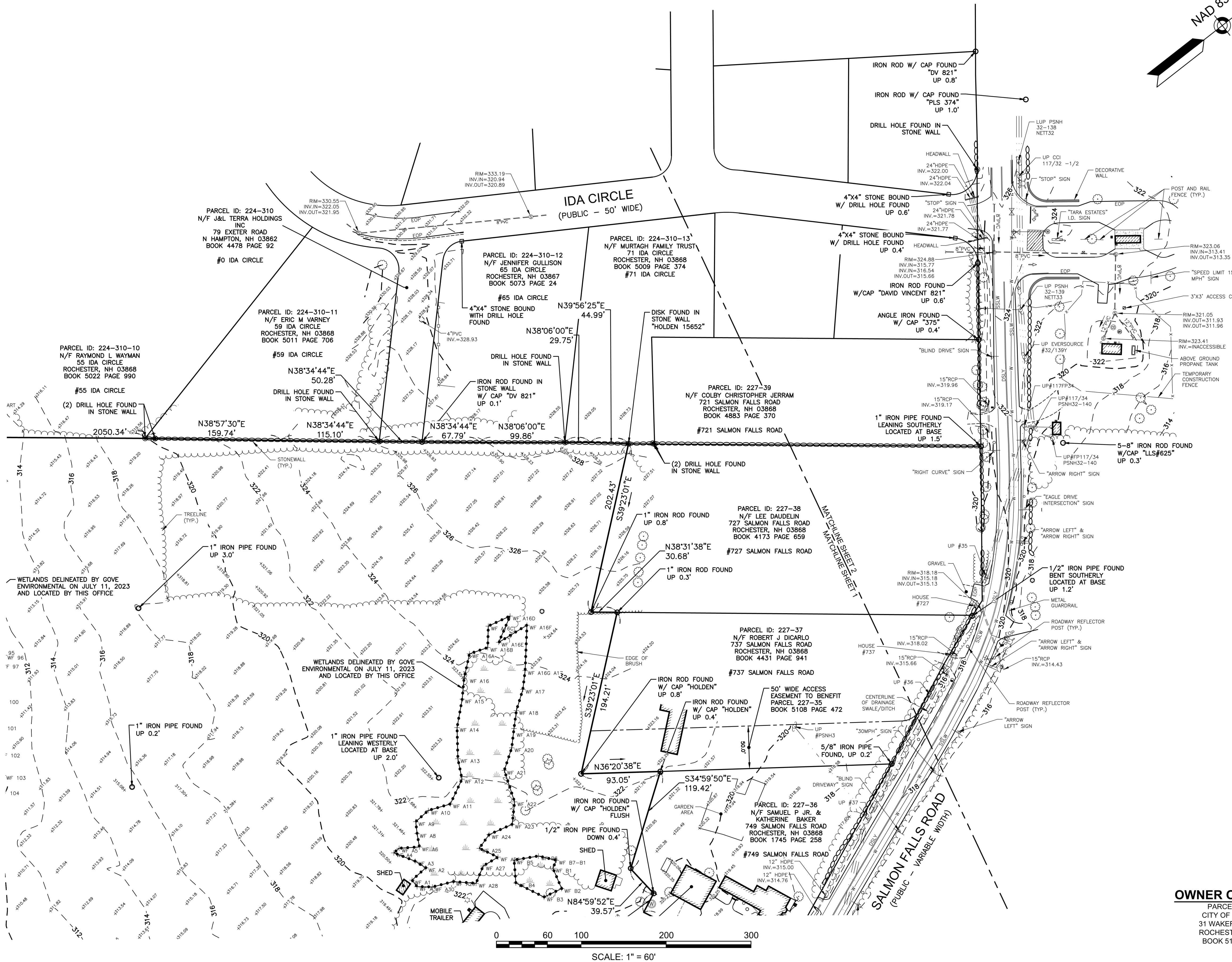
SCALE: 1"=60'

NEX-2200150.17

1 OF 2

PREPARED FOR

TIGHE & BOND, INC.
177 CORPORATE DRIVE
PORTSMOUTH, NH 03801



PARCEL ID: 227-35
CITY OF ROCHESTER
31 WAKEFIELD STREET
ROCHESTER, NH 03867
BOOK 5108 PAGE 472

OCTOBER 3, 2023	
DRAWN/DESIGN BY DPD/CSS	CHECKED BY AKC/SML

SCALE:	1"=60'
NEX-2200150.17	
2 OF 2	

- GENERAL NOTES:**
- THE LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT GUARANTEED BY THE OWNER OR THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING UTILITIES AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.
 - COORDINATE ALL WORK WITHIN PUBLIC RIGHT OF WAYS WITH THE CITY OF ROCHESTER.
 - THE CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED LAND SURVEYOR TO DETERMINE ALL LINES AND GRADES.
 - THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES. CALL DIG SAFE AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION/CONSTRUCTION ACTIVITIES.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES AND COMPLY WITH THE CONDITIONS OF ALL OF THE PERMIT APPROVALS.
 - THE CONTRACTOR SHALL OBTAIN AND PAY FOR AND COMPLY WITH ADDITIONAL PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK AND ARRANGE FOR AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION.
 - THE CONTRACTOR SHALL PHASE DEMOLITION AND CONSTRUCTION AS REQUIRED TO PROVIDE CONTINUOUS SERVICE TO EXISTING BUSINESSES AND HOMES THROUGHOUT THE CONSTRUCTION PERIOD. EXISTING BUSINESS AND HOME SERVICES INCLUDE, BUT ARE NOT LIMITED TO ELECTRICAL, COMMUNICATION, FIRE PROTECTION, DOMESTIC WATER AND SEWER SERVICES. TEMPORARY SERVICES, IF REQUIRED, SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL AND UTILITY COMPANY STANDARDS. CONTRACTOR SHALL PROVIDE DETAILED CONSTRUCTION SCHEDULE TO OWNER PRIOR TO ANY DEMOLITION/CONSTRUCTION ACTIVITIES AND SHALL COORDINATE TEMPORARY SERVICES TO ABBUTERS WITH THE UTILITY COMPANY AND AFFECTED BUTTER.
 - ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES & SPECIFICATIONS.
 - ALL WORK SHALL CONFORM TO THE CITY OF ROCHESTER DEPARTMENT OF PUBLIC WORKS, STANDARD SPECIFICATIONS AND WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS OF ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION.
 - CONTRACTOR TO SUBMIT AS-BUILT PLANS IN DIGITAL FORMAT (.DWG AND .PDF FILES) ON DISK TO THE OWNER AND ENGINEER UPON COMPLETION OF THE PROJECT. AS-BUILTS SHALL BE PREPARED AND CERTIFIED BY A NEW HAMPSHIRE LICENSED LAND SURVEYOR.
 - CONTRACTOR SHALL THOROUGHLY CLEAN ALL CATCH BASINS AND DRAIN LINES, WITHIN THE LIMIT OF WORK, OF SEDIMENT IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.

DEMOLITION NOTES:

- EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR DEMOLITION ACTIVITIES.
- ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES AND CODES.
- COORDINATE REMOVAL, RELOCATION, DISPOSAL OR SALVAGE OF UTILITIES WITH THE OWNER AND APPROPRIATE UTILITY COMPANY.
- ANY EXISTING WORK OR PROPERTY DAMAGED OR DISRUPTED BY CONSTRUCTION/ DEMOLITION ACTIVITIES SHALL BE REPLACED OR REPAIRED TO MATCH ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- SAW CUT AND REMOVE PAVEMENT ONE (1) FOOT OFF PROPOSED EDGE OF PAVEMENT OR EXISTING CURB LINE IN ALL AREAS WHERE PAVEMENT TO BE REMOVED ABUTS EXISTING PAVEMENT OR CONCRETE TO REMAIN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND OFF-SITE DISPOSAL OF MATERIALS REQUIRED TO COMPLETE THE WORK, EXCEPT FOR WORK NOTED TO BE COMPLETED BY OTHERS.
- UTILITIES SHALL BE TERMINATED AT THE MAIN LINE PER UTILITY COMPANY AND CITY OF ROCHESTER STANDARDS. THE CONTRACTOR SHALL REMOVE ALL ABANDONED UTILITIES LOCATED WITHIN THE LIMITS OF WORK UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY ORIGIN OF ALL DRAINS AND UTILITIES PRIOR TO REMOVAL/TERMINATION TO DETERMINE IF DRAINS OR UTILITY IS ACTIVE, AND SERVICES ANY ON OR OFF-SITE STRUCTURE TO REMAIN. THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY SUCH UTILITY FOUND AND SHALL MAINTAIN THESE UTILITIES UNTIL PERMANENT SOLUTION IS IN PLACE.
- PAVEMENT REMOVAL LIMITS ARE SHOWN FOR CONTRACTOR'S CONVENIENCE. ADDITIONAL PAVEMENT REMOVAL MAY BE REQUIRED DEPENDING ON THE CONTRACTOR'S OPERATION. CONTRACTOR TO VERIFY FULL LIMITS OF PAVEMENT REMOVAL PRIOR TO BID.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, CONCRETE PADS, UTILITIES AND PAVEMENT WITHIN THE WORK LIMITS SHOWN UNLESS SPECIFICALLY IDENTIFIED TO REMAIN. ITEMS TO BE REMOVED INCLUDE BUT ARE NOT LIMITED TO: CONCRETE, PAVEMENT, LIGHTING, UNDER GROUND PIPING, POLES, STAIRS, SIGNS, FENCES, WALLS, BUILDING SLABS, FOUNDATION, TREES AND LANDSCAPING.
- REMOVE TREES AND BRUSH AS REQUIRED FOR COMPLETION OF WORK. CONTRACTOR SHALL GRUB AND REMOVE ALL STUMPS WITHIN LIMITS OF WORK AND DISPOSE OF OFF SITE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
- CONTRACTOR SHALL PROTECT ALL PROPERTY MONUMENTATION THROUGHOUT DEMOLITION AND CONSTRUCTION OPERATIONS. SHOULD ANY MONUMENTATION BE DISTURBED BY THE CONTRACTOR, THE CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED SURVEYOR TO REPLACE DISTURBED MONUMENTS.
- PROVIDE INLET PROTECTION BARRIERS AT ALL CATCH BASINS/CURB INLETS WITHIN CONSTRUCTION LIMITS AS WELL AS CATCH BASINS/CURB INLETS THAT RECEIVE RUNOFF FROM CONSTRUCTION ACTIVITIES. INLET PROTECTION BARRIERS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT. INLET PROTECTION BARRIERS SHALL BE "HIGH FLOW SILT SACK" BY ACF ENVIRONMENTAL OR EQUAL. INSPECT BARRIERS WEEKLY AND AFTER EACH RAIN EVENT OF 0.25 INCHES OR GREATER. CONTRACTOR SHALL COMPLETE A MAINTENANCE INSPECTION REPORT AFTER EACH INSPECTION. SEDIMENT DEPOSIT'S SHALL BE REMOVED AFTER EACH STORM EVENT OR MORE OFTEN IF THE FABRIC BECOMES CLOGGED OR SEDIMENT HAS ACCUMULATED TO 1/3 THE DESIGN DEPTH OF THE BARRIER.
- THE CONTRACTOR SHALL PAY ALL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRICADING, FENCING, SECURITY AND SAFETY DEVICES REQUIRED FOR THE MAINTENANCE OF A CLEAN AND SAFE CONSTRUCTION SITE.
- SAW CUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL UTILITIES TO BE REMOVED AND PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN.

SITE NOTES:

- PAVEMENT MARKINGS SHALL BE INSTALLED AS SHOWN, INCLUDING PARKING SPACES, STOP BARS, ADA SYMBOLS, PAINTED ISLANDS, FIRE LANES, CROSS WALKS, ARROWS, LEGENDS AND CENTERLINES. ALL MARKINGS EXCEPT CENTERLINE AND MEDIAN ISLANDS TO BE CONSTRUCTED USING WHITE PAVEMENT MARKINGS. ALL THERMOPLASTIC PAVEMENT MARKINGS INCLUDING LEGENDS, ARROWS, CROSSWALKS AND STOP BARS SHALL MEET THE REQUIREMENTS OF AASHTO M249. ALL PAINTED PAVEMENT MARKINGS INCLUDING CENTERLINES, LANE LINES AND PAINTED MEDIANS SHALL MEET THE REQUIREMENTS OF AASHTO M248 TYPE "F".
- ALL PAVEMENT MARKINGS AND SIGNS TO CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", AND THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS, LATEST EDITIONS.
- SEE DETAILS FOR PAVEMENT MARKINGS, ADA SYMBOLS, SIGNS AND SIGN POSTS.
- CENTERLINES SHALL BE FOUR (4) INCH WIDE YELLOW LINES.
- PAINTED ISLANDS SHALL BE FOUR (4) INCH WIDE DIAGONAL LINES AT 3'-0" O.C. BORDERED BY FOUR (4) INCH WIDE LINES.
- STOP BARS SHALL BE EIGHTEEN (18) INCHES WIDE, WHITE THERMOPLASTIC AND CONFORM TO CURRENT MUTCD STANDARDS.
- CLEAN AND COAT VERTICAL FACE OF EXISTING PAVEMENT AT SAW CUT LINE WITH RS-1 EMULSION IMMEDIATELY PRIOR TO PLACING NEW BITUMINOUS CONCRETE.

- SEE ARCHITECTURAL/BUILDING DRAWINGS FOR ALL CONCRETE PADS & SIDEWALKS ADJACENT TO BUILDING.
- CONTRACTOR TO PROVIDE BACKFILL AND COMPACTION AT CURB LINE AFTER CONCRETE FORMS FOR SIDEWALKS AND PADS HAVE BEEN STRIPPED. COORDINATE WITH BUILDING CONTRACTOR.
- ALL LIGHT POLE BASES NOT PROTECTED BY A RAISED CURB SHALL BE PAINTED YELLOW.
- COORDINATE ALL WORK ADJACENT TO BUILDING WITH BUILDING CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING RETAINING WALL DESIGN FROM STRUCTURAL ENGINEER AND/OR WALL MANUFACTURER. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO CONSTRUCT WALL IN ACCORDANCE WITH DESIGN APPROVED BY THE ENGINEER. RETAINING WALL SHALL BE SEGMENTAL BLOCK WALL SYSTEM AS OUTLINED IN THE DETAILS.
- ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.

GRADING AND DRAINAGE NOTES:

- COMPACTION REQUIREMENTS:
BELOW PAVED OR CONCRETE AREAS 95%
TRENCH BEDDING MATERIAL AND SAND BLANKET BACKFILL 95%
BELOW LOAM AND SEED AREAS 90%
* ALL PERCENTAGES OF COMPACTION SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557, METHOD C FIELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM D-1556 OR ASTM-2922.
- ALL STORM DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE (HANCOR HI-Q, ADS N-12 OR EQUAL) OR RCP CLASS IV, UNLESS OTHERWISE SPECIFIED.
- ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE.
- CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE AND LAWN AREAS FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCES, EXITS, RAMPS AND LOADING DOCK AREAS ADJACENT TO THE BUILDING.
- ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 6" LOAM, SEED FERTILIZER AND MULCH.
- ALL STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NHDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST EDITION.
- ALL PROPOSED CATCH BASINS SHALL BE EQUIPPED WITH OIL/GAS SEPARATOR HOODS AND 4' SUMPS.

EROSION CONTROL NOTES:

- SEE SHEET C-501 FOR GENERAL EROSION CONTROL NOTES AND DETAILS.

UTILITY NOTES:

- COORDINATE ALL UTILITY WORK WITH APPROPRIATE UTILITY COMPANY.
 - NATURAL GAS - UNUTIL
 - WATER - CITY OF ROCHESTER
 - SEWER - CITY OF ROCHESTER
 - ELECTRIC - EVERSOURCE
 - COMMUNICATIONS - CONSOLIDATED COMMUNICATIONS
- ALL WATER MAIN INSTALLATIONS SHALL BE CLASS 52, CEMENT LINED DUCTILE IRON PIPE.
- ALL WATER MAIN INSTALLATIONS SHALL BE PRESSURE TESTED AND CHLORINATED AFTER CONSTRUCTION PRIOR TO ACTIVATING THE SYSTEM. CONTRACTOR SHALL COORDINATE CHLORINATION AND TESTING WITH THE CITY OF ROCHESTER WATER DEPARTMENT.
- ALL SEWER FORCE MAIN PIPE SHALL BE PVC SDR 26 UNLESS OTHERWISE NOTED.
- CONNECTION TO EXISTING WATER MAIN SHALL BE CONSTRUCTED TO THE CITY OF ROCHESTER STANDARDS.
- EXISTING UTILITIES TO BE REMOVED SHALL BE CAPPED AT THE MAIN AND MEET THE DEPARTMENT OF PUBLIC WORKS STANDARDS FOR CAPPING OF WATER AND SEWER SERVICES.
- ALL ELECTRICAL MATERIAL WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, LATEST EDITION, AND ALL APPLICABLE STATE AND LOCAL CODES.
- THE EXACT LOCATION OF NEW UTILITY SERVICES AND CONNECTIONS SHALL BE COORDINATED WITH THE BUILDING DRAWINGS AND THE APPLICABLE UTILITY COMPANIES.
- ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING CABLES.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, BOXES, FITTINGS, CONNECTORS, COVER PLATES, AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL.
- A 10-FOOT MINIMUM EDGE TO EDGE HORIZONTAL SEPARATION SHALL BE PROVIDED BETWEEN ALL WATER AND SANITARY SEWER LINES. AN 18-INCH MINIMUM OUTSIDE TO OUTSIDE VERTICAL SEPARATION SHALL BE PROVIDED AT ALL WATER/SANITARY SEWER CROSSINGS.
- SAW CUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN
- HYDRANTS, GATE VALVES, FITTINGS, ETC. SHALL MEET THE REQUIREMENTS OF THE CITY OF ROCHESTER.
- COORDINATE TESTING OF SEWER CONSTRUCTION WITH THE CITY OF ROCHESTER.
- ALL SEWER PIPE WITH LESS THAN 6' OF COVER IN PAVED AREAS OR LESS THAT 4' OF COVER IN UNPAVED AREAS SHALL BE INSULATED.
- CONTRACTOR SHALL COORDINATE ALL ELECTRIC WORK INCLUDING BUT NOT LIMITED TO: CONDUIT CONSTRUCTION, MANHOLE CONSTRUCTION, UTILITY POLE CONSTRUCTION, OVERHEAD WIRE RELOCATION, AND TRANSFORMER CONSTRUCTION WITH POWER COMPANY.
- SITE LIGHTING SPECIFICATIONS, CONDUIT LAYOUT AND CIRCUITRY FOR PROPOSED SITE LIGHTING AND SIGN ILLUMINATION SHALL BE PROVIDED BY THE PROJECT ELECTRICAL ENGINEER.
- CONTRACTOR SHALL CONSTRUCT ALL UTILITIES AND DRAINS TO WITHIN 10' OF THE FOUNDATION WALLS AND CONNECT THESE TO SERVICE STUBS FROM THE BUILDING.

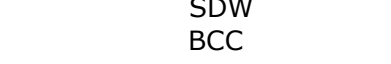
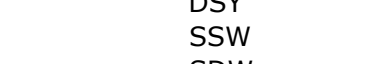
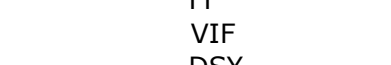
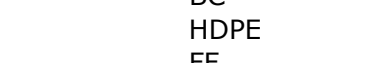
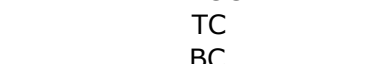
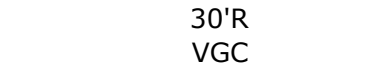
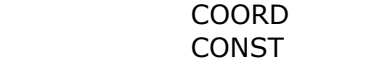
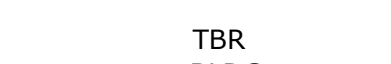
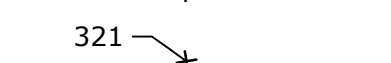
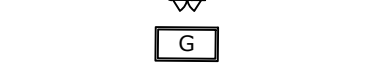
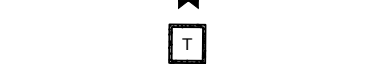
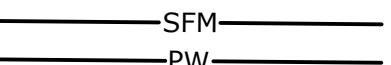
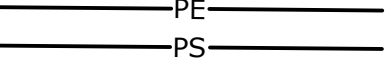
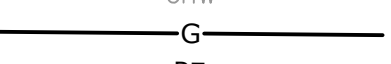
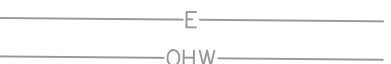
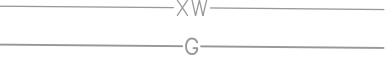
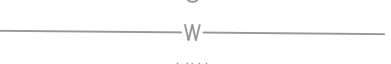
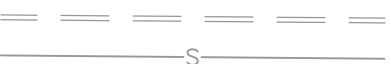
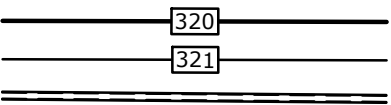
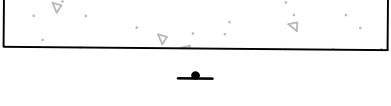
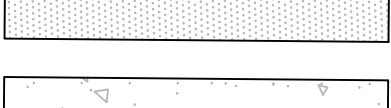
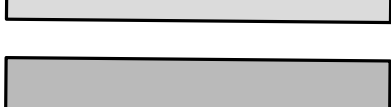
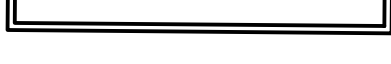
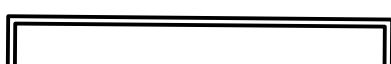
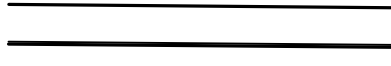
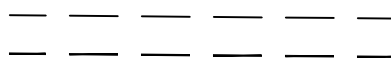
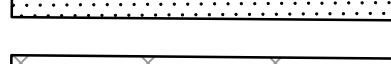
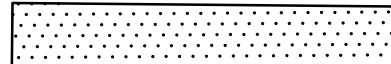
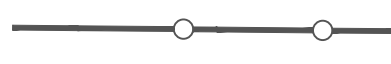
LANDSCAPE NOTES:

- ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED, SHALL RECEIVE 6" OF LOAM AND SEED. NO FILL SHALL BE PLACED IN ANY WETLAND AREA.
- EXISTING TREES AND SHRUBS SHOWN ON THE PLAN ARE TO REMAIN UNDISTURBED. ALL EXISTING TREES AND SHRUBS SHOWN TO REMAIN ARE TO BE PROTECTED WITH A 4-FOOT SNOW FENCE PLACED AT THE DRIP LINE OF THE BRANCHES OR AT 8 FEET MINIMUM FROM THE TREE TRUNK. ANY EXISTING TREE OR SHRUB SHOWN TO REMAIN, WHICH IS REMOVED DURING CONSTRUCTION, SHALL BE REPLACED BY A TREE OF COMPARABLE SIZE AND SPECIES TREE OR SHRUB.
- UPON EXPIRATION OF THE CONTRACTOR'S ONE YEAR GUARANTEE PERIOD, THE OWNER SHALL BE RESPONSIBLE FOR LANDSCAPE MAINTENANCE INCLUDING WATERING DURING PERIODS OF DROUGHT
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PLANTING AND LAWNS AGAINST DAMAGE FROM ONGOING CONSTRUCTION. THIS PROTECTION SHALL BEGIN AT THE TIME THE PLANT IS INSTALLED AND CONTINUE UNTIL THE FORMAL ACCEPTANCE OF ALL THE PLANTINGS.

EXISTING CONDITIONS PLAN NOTES:

- EXISTING CONDITIONS ARE BASED ON A FIELD SURVEY BY GREENMAN-PEDERSEN, INC. DATED 10/03/2023.
- WETLAND DELINEATION BY GOVE ENVIRONMENTAL, IN JULY 2023, AND FIELD LOCATED BY GREENMAN-PEDERSEN, INC. IN JULY 2023.

LEGEND

- 
- PROPOSED SAWCUT

LIMIT OF WORK

PROPOSED SILT SOCK

APPROXIMATE LIMIT OF PAVEMENT TO BE REMOVED

APPROXIMATE LIMIT OF TREELINE & BRUSH TO BE REMOVED

EXISTING PROPERTY LINE

EXISTING WETLANDS

EXISTING PROPERTY SETBACKS

25' NO DISTURB WETLAND SETBACK

50' WETLAND BUFFER

PROPOSED EDGE OF PAVEMENT

PROPOSED CURB

PROPOSED BUILDING

PROPOSED STANDARD DUTY PAVEMENT SECTION

PROPOSED HEAVY DUTY PAVEMENT SECTION

PROPOSED BITUMINOUS PAVEMENT SECTION

PROPOSED CONCRETE SIDEWALK

PROPOSED SIGN

PROPOSED MAJOR CONTOUR LINE

PROPOSED MINOR CONTOUR LINE

PROPOSED DRAIN LINE (TYP)

PROPOSED CATCHBASIN

PROPOSED DRAIN MANHOLE

PROPOSED YARD DRAIN

EXISTING STORM DRAIN

EXISTING SANITARY SEWER

EXISTING WATER

APPROXIMATE EXISTING WATER

EXISTING GAS

EXISTING UNDERGROUND ELECTRIC

EXISTING OVERHEAD UTILITY

PROPOSED GAS

PROPOSED UNDERGROUND ELECTRIC

PROPOSED SANITARY SEWER

PROPOSED SANITARY SEWER FORCE MAIN

PROPOSED WATER

EXISTING LIGHT POLE

EXISTING SEWER MANHOLE

EXISTING WATER WELL

PROPOSED WATER VALVE

PROPOSED GAS VALVE

PROPOSED TRANSFORMER

PROPOSED GENERATOR

PROPOSED GREASE TRAP

PROPOSED SANITARY MANHOLE

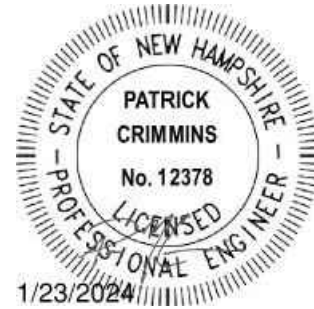
PROPOSED FIRE HYDRANT

PROPOSED SPOT GRADE

ABBREVIATIONS

- | | |
|-------|---------------------------|
| TBR | TO BE REMOVED |
| BLDG | BUILDING |
| TYP | TYPICAL |
| COORD | COORDINATE |
| CONST | CONSTRUCT |
| 30'R | CURB RADIUS |
| VGC | VERTICAL GRANITE CURB |
| SGC | SLOPED GRANITE CURB |
| FGC | FLUSH GRANITE CURB |
| TC | TOP OF CURB |
| BC | BOTTOM OF CURB |
| HDPE | HIGH-DENSITY POLYETHYLENE |
| FF | FINISH FLOOR |
| VIF | VERIFY IN FIELD |
| DSY | DOUBLE SOLID YELLOW |
| SSW | SINGLE SOLID WHITE |
| SDW | SINGLE DASHED WHITE |
| BCC | BITUMINOUS CONCRETE CURB |

Tighe&Bond



ROCHESTER
ELEMENTARY
SCHOOL

753 Salmon Falls
Road Rochester,
NH 03868

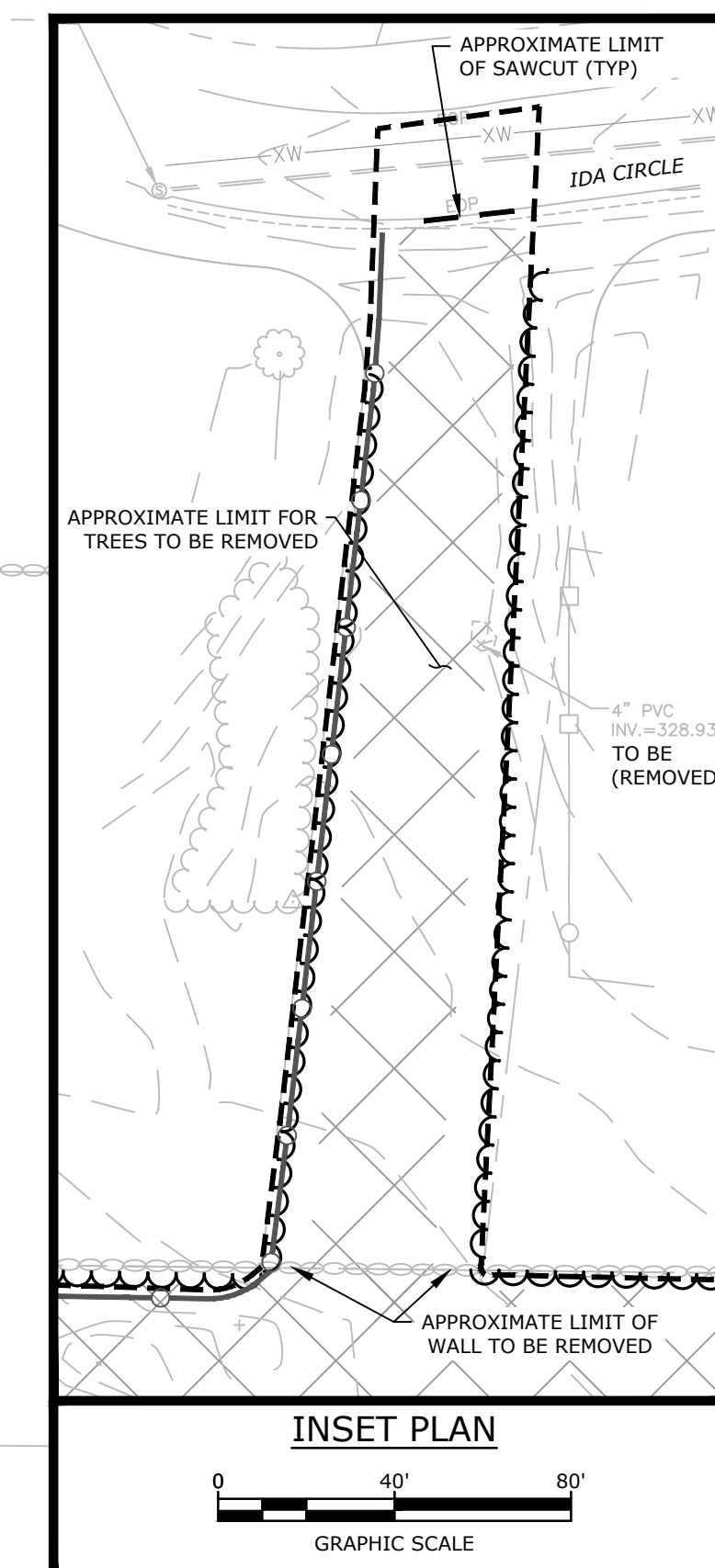
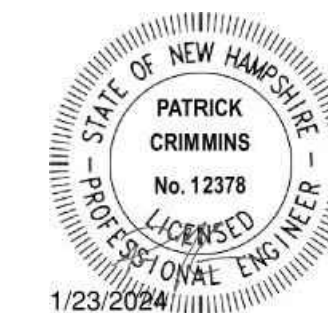
Rochester School
District

C	1/23/2024	REV TRG SUBMISSION
B	1/19/2024	AOT RFMI RESPONSE
A	12/12/2023	PB SUBMISSION
MARK	DATE	DESCRIPTION
PROJECT NO:		R5077-001
DATE:		11/9/2023
FILE:		SS197-002_DSGN - VE LAYOUT 2.dwg
DRAWN BY:		NHW/CML
DESIGNED/CHECKED BY:		AFS/ED
APPROVED BY:		PMC

GENERAL NOTES
AND LEGEND

SCALE: AS SHOWN

G-100



753 Salmon Falls
Road Rochester,
NH 03868

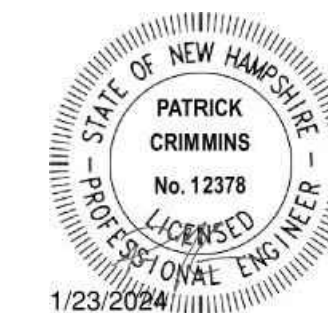
Rochester School
District

C	1/23/2024	REV TRG SUBMISSION
B	1/19/2024	AOT RFMI RESPONSE
A	12/12/2023	PB SUBMISSION
MARK	DATE	DESCRIPTION
PROJECT NO:		R5077-001
DATE:		11/9/2023
FILE: S5197-002_DSGN - VE LAYOUT 2.dwg		
DRAWN BY:		NHW/CML
DESIGNED/CHECKED BY:		AFS/ED
APPROVED BY:		PMC

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

C-101



753 Salmon Falls
Road Rochester,
NH 03868

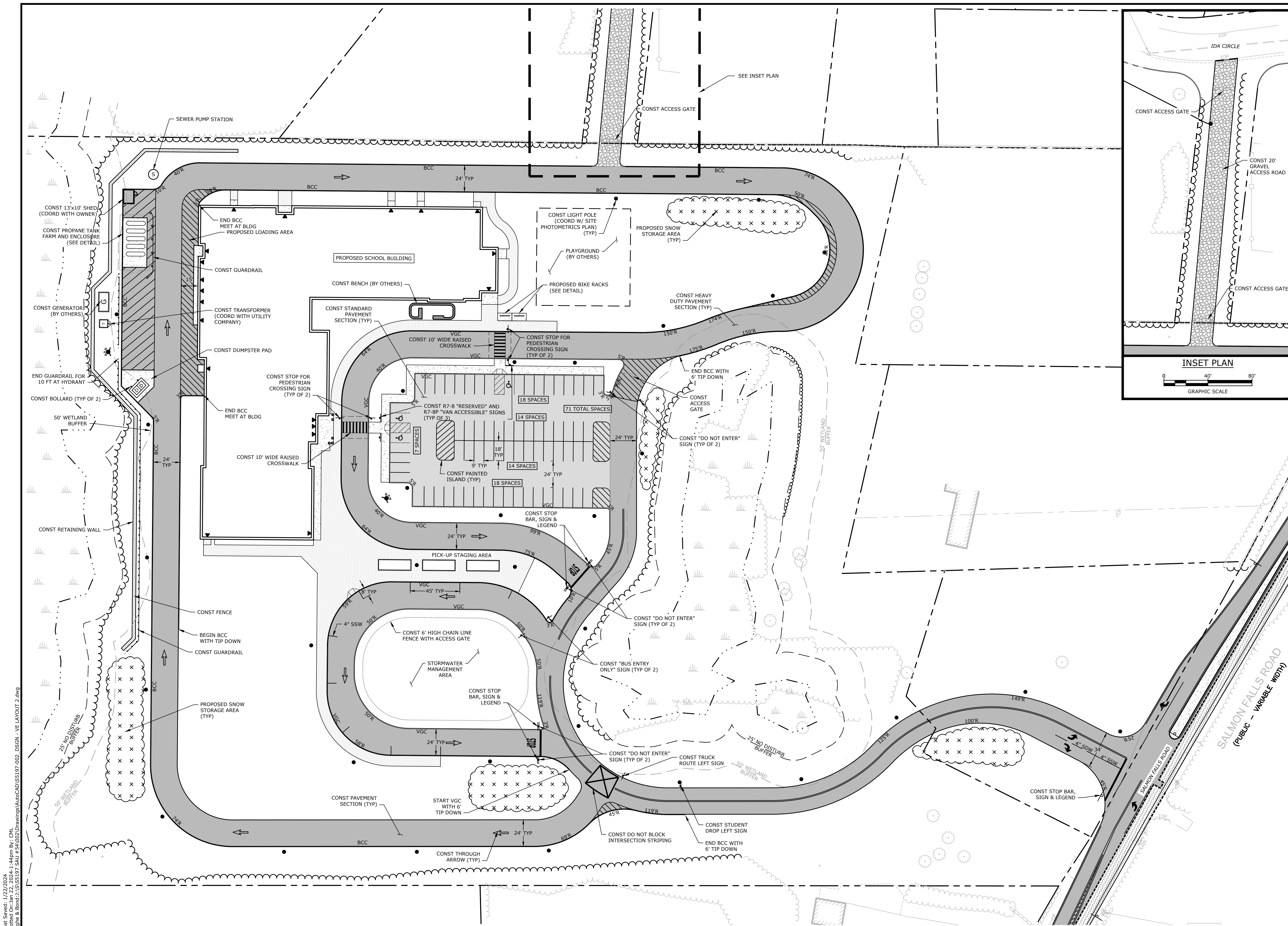
Rochester School
District

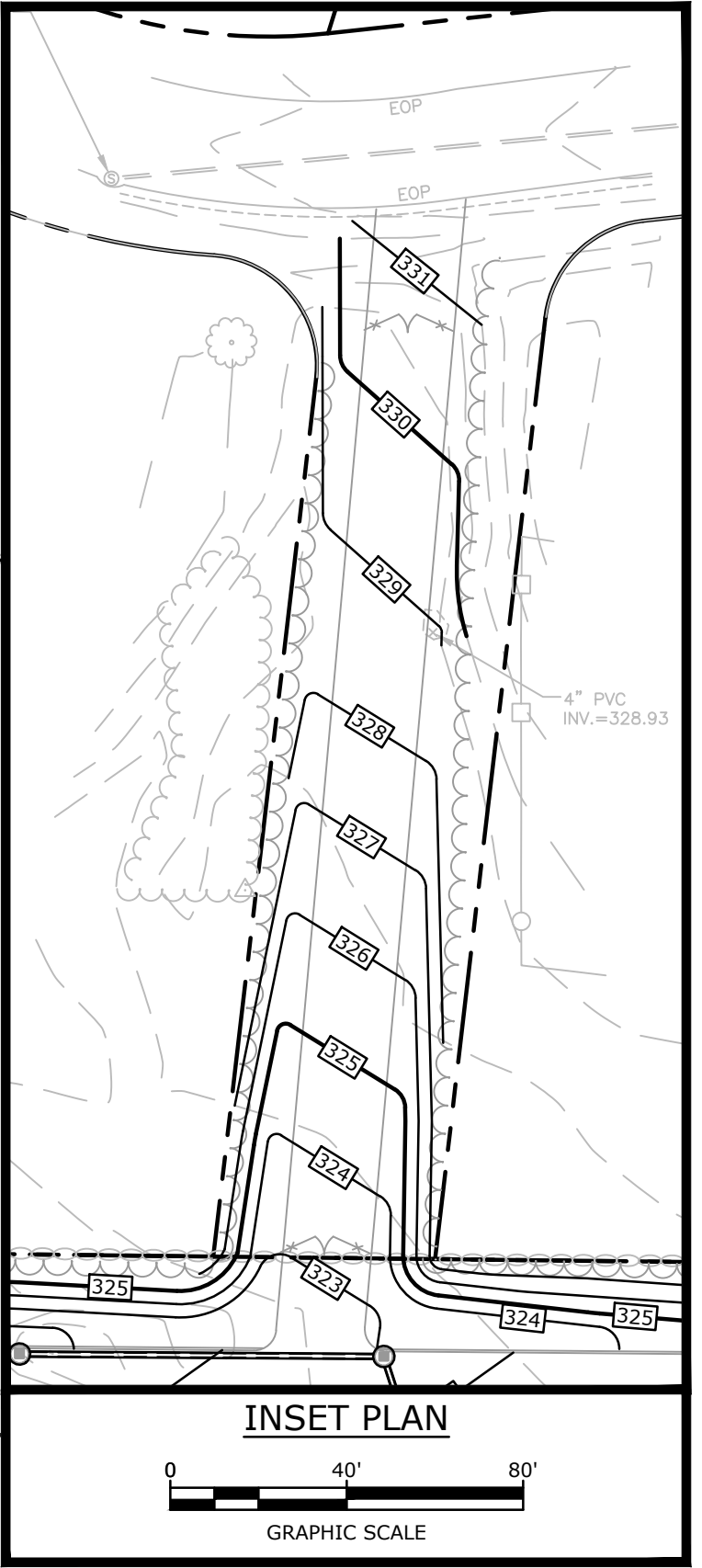
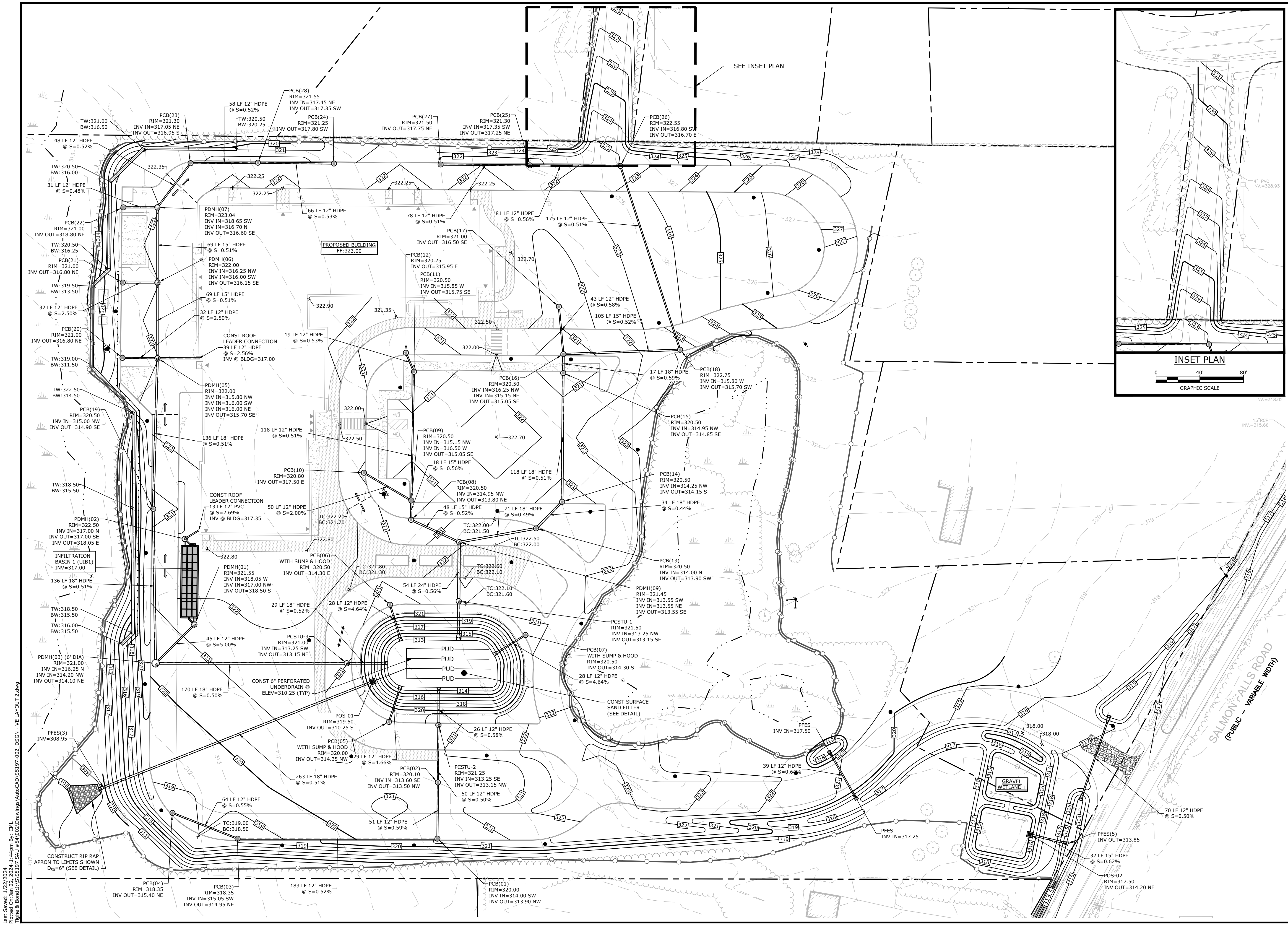
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DATE: 11/9/2023		
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DRAWN BY: NHHW/CML		
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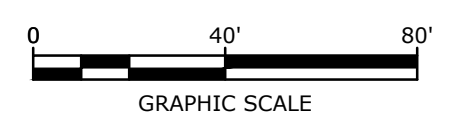
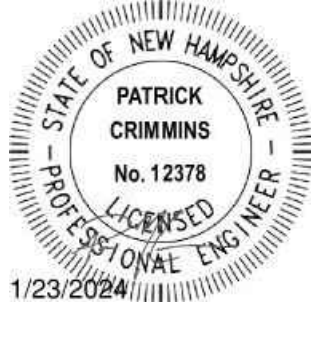
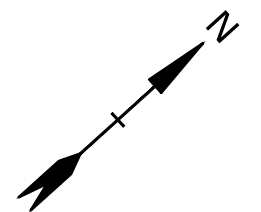
SITE PLAN

SCALE: AS SHOWN

C-102







ROCHESTER ELEMENTARY SCHOOL

753 Salmon Falls
Road Rochester,
NH 03868

Rochester School
District

MARK	DATE	DESCRIPTION
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B	1/19/2024	AOT RFMI RESPONSE
A	12/12/2023	PB SUBMISSION

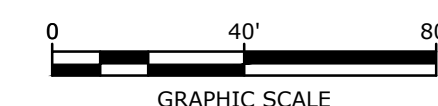
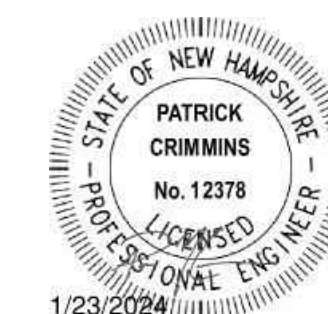
PROJECT NO: R5077-001
DATE: 11/9/2023
FILE: S5197-002_DSGN - VE LAYOUT 2.dwg
DRAWN BY: NHW/CML
DESIGNED/CHECKED BY: AFS/ED
APPROVED BY: PMC

GRADING, DRAINAGE AND
EROSION CONTROL PLAN

SCALE: AS SHOWN

C-103

Last Saved: 1/22/2024
Plotted On: Jan 22, 2024 1:44pm By: CH
Tighe & Bond 315.53197 SAV 2.54 1022 Drawings AutoCAD 2019 002 DSGN - VE LAYOUT 2.dwg



753 Salmon Falls
Road Rochester,
NH 03868

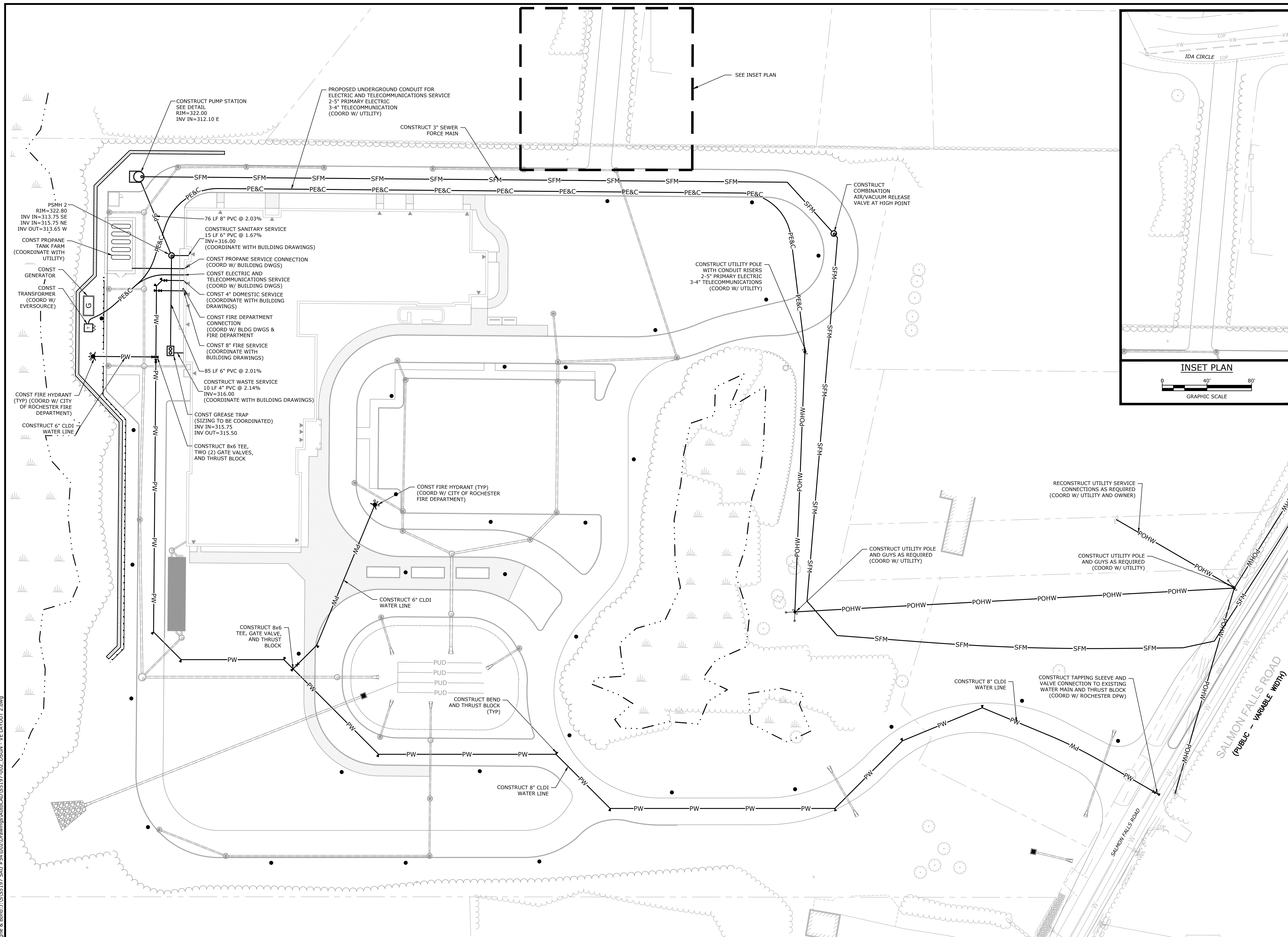
Rochester School District

C	1/23/2024	REV TRG SUBMISSION
B	1/19/2024	AOT RFMI RESPONSE
A	12/12/2023	PB SUBMISSION
MARK	DATE	DESCRIPTION
PROJECT NO: R5077-001		
DATE: 11/9/2023		
FILE: S5197-002_DSGN - VE LAYOUT 2.dwg		
DRAWN BY: NHW/CML		
DESIGNED/CHECKED BY: AFS/ED		
APPROVED BY: PMC		

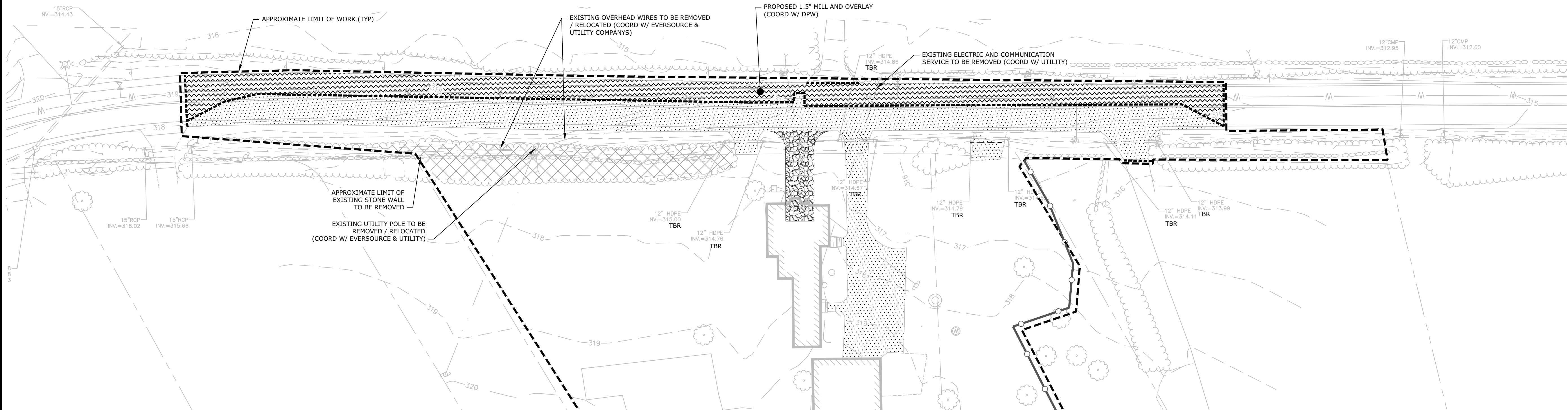
UTILITY PLAN

SCALE: AS SHOWN

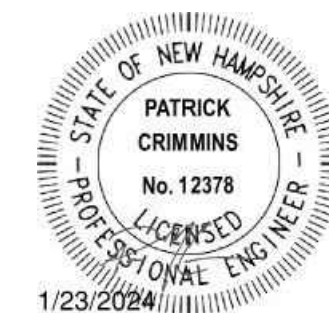
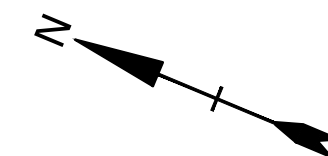
C-104



Last Saved: 1/22/2024
Plotted On: Jan 22, 2024 1:45pm By: CHM
Tighe & Bond 31515197_S&U 2-24 002 Drawings\AutoCAD\SS197-002_DSGN - VE LAYOUT 2.dwg



Tighe&Bond



ROCHESTER ELEMENTARY SCHOOL

753 Salmon Falls
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NH 03868

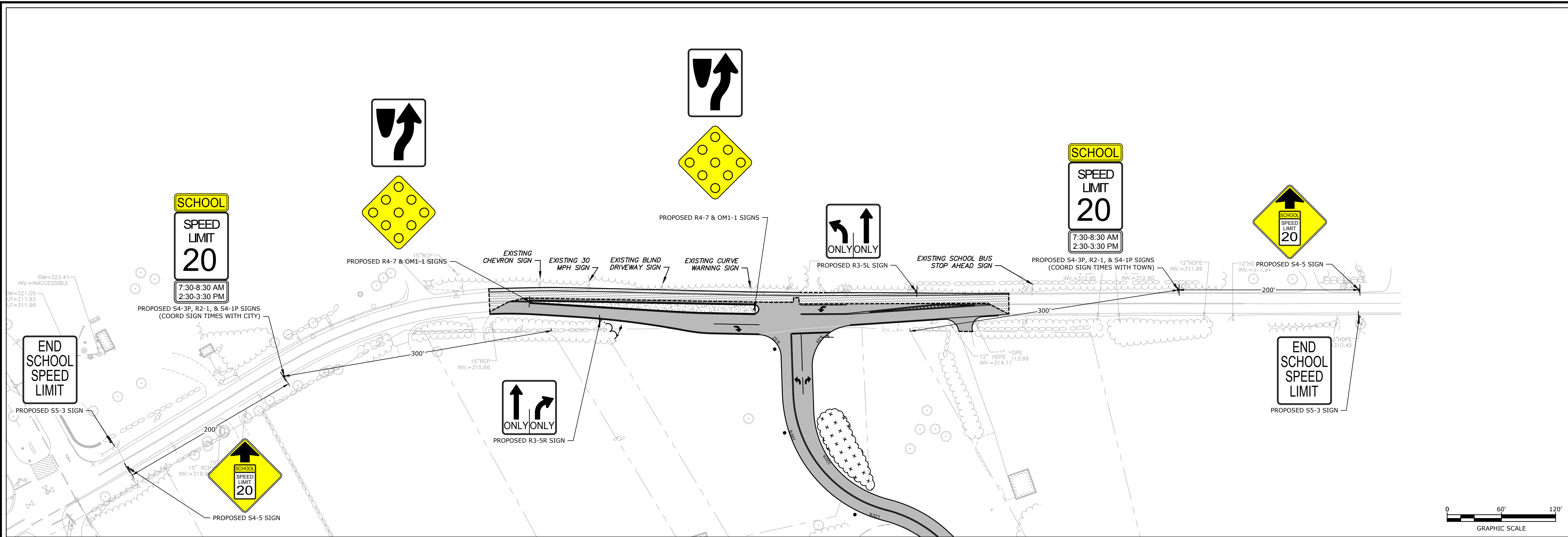
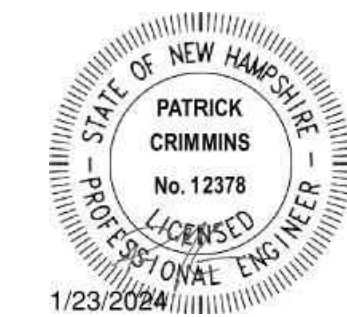
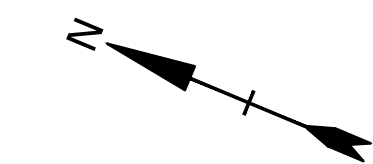
Rochester School
District

B	1/23/2024	REV TRG SUBMISSION
A	12/12/2023	PB SUBMISSION
MARK	DATE	DESCRIPTION
PROJECT NO:		R5077-001
DATE:		11/9/2023
FILE:		SS197-002_DSGN - VE LAYOUT 2.dwg
DRAWN BY:		NHW/CML
DESIGNED/CHECKED BY:		AFS/ED
APPROVED BY:		PMC

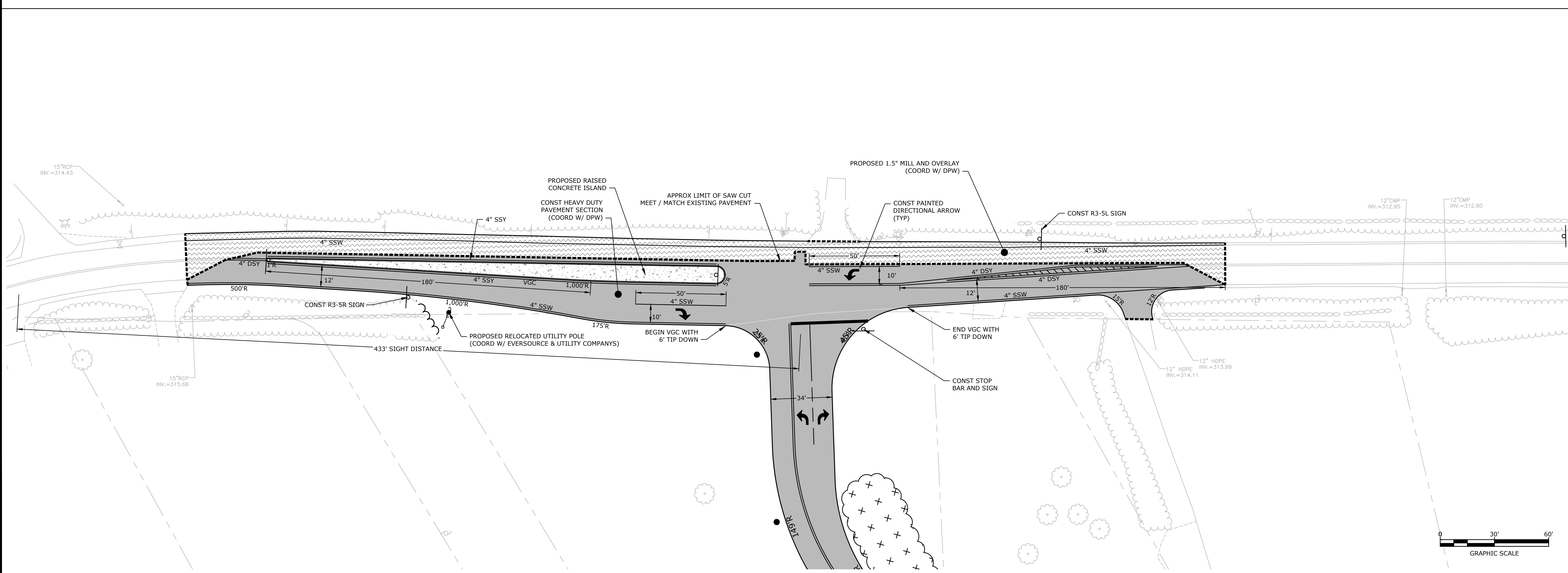
OFF-SITE
EXISTING CONDITIONS
& DEMOLITION PLAN

SCALE: AS SHOWN

C-201



SALMON FALLS ROAD TRAFFIC CALMING SIGNAGE LAYOUT INSET
SCALE: 1" = 60'



ROCHESTER
ELEMENTARY
SCHOOL

753 Salmon Falls
Road Rochester,
NH 03868

Rochester School
District

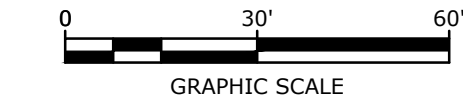
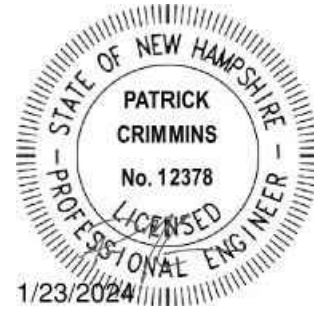
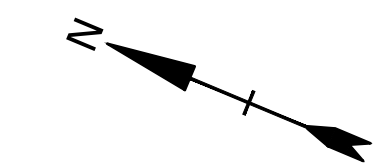
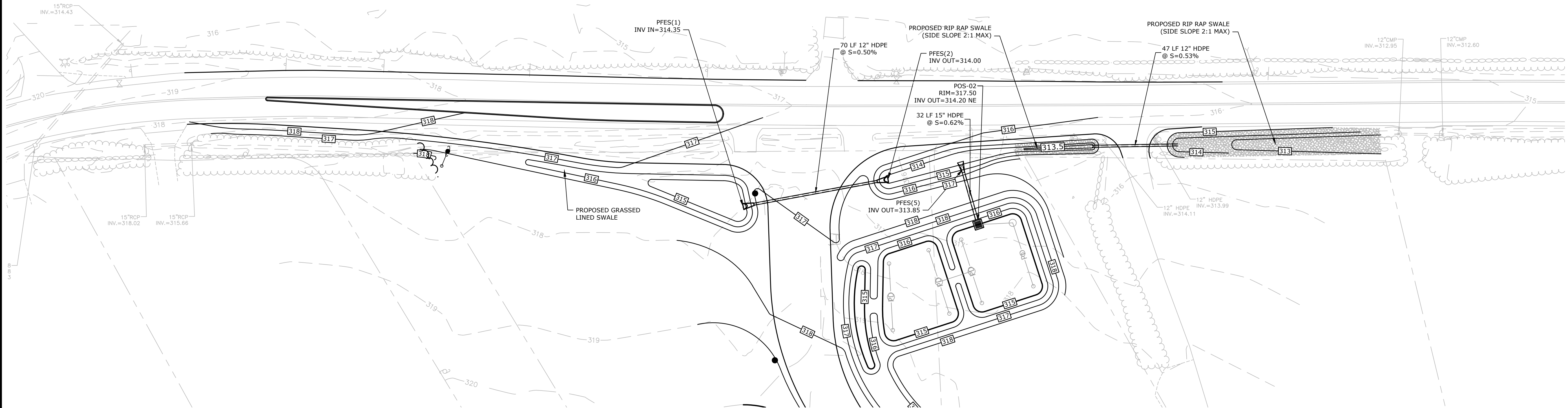
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A	12/12/2023	PB SUBMISSION
MARK	DATE	DESCRIPTION
PROJECT NO:		R5077-001
DATE:		11/9/2023
FILE:		SS197-002_DSGN - VE LAYOUT 2.dwg
DRAWN BY:		NHW/CML
DESIGNED/CHECKED BY:		AFS/ED
APPROVED BY:		PMC

OFF-SITE
SITE PLAN

SCALE: AS SHOWN

C-202

Last Saved: 1/22/2024
Plotted On: Jan 22, 2024 1:45pm By: CH
Tighe & Bond 235197_S&U 2-24 002 Drawings AutoCAD: S5197-002_DSGN - VE LAYOUT 2.dwg

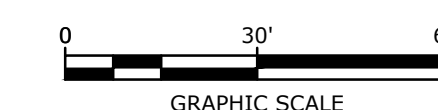
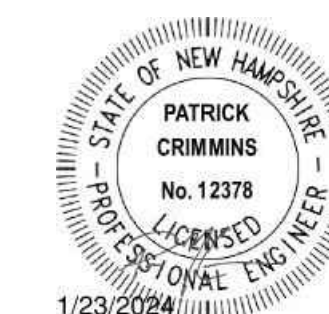


ROCHESTER ELEMENTARY SCHOOL

753 Salmon Falls
Road Rochester,
NH 03868

Rochester School
District

B	1/23/2024	REV TRG SUBMISSION
A	12/12/2023	PB SUBMISSION
MARK	DATE	DESCRIPTION
PROJECT NO:		R5077-001
DATE:		11/9/2023
FILE:		S5197-002_DSGN - VE LAYOUT 2.dwg
DRAWN BY:		NHW/CML
DESIGNED/CHECKED BY:		AFS/ED
APPROVED BY:		PMC
OFF-SITE GRADING, DRAINAGE AND EROSION CONTROL PLAN		
SCALE: AS SHOWN		

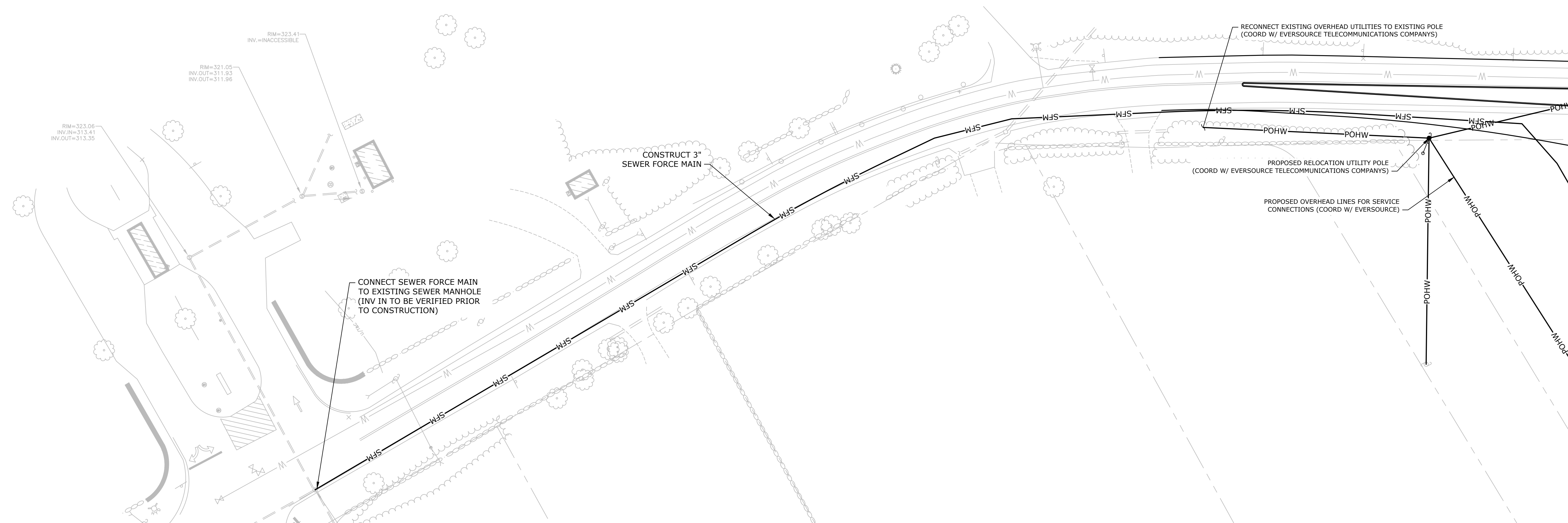
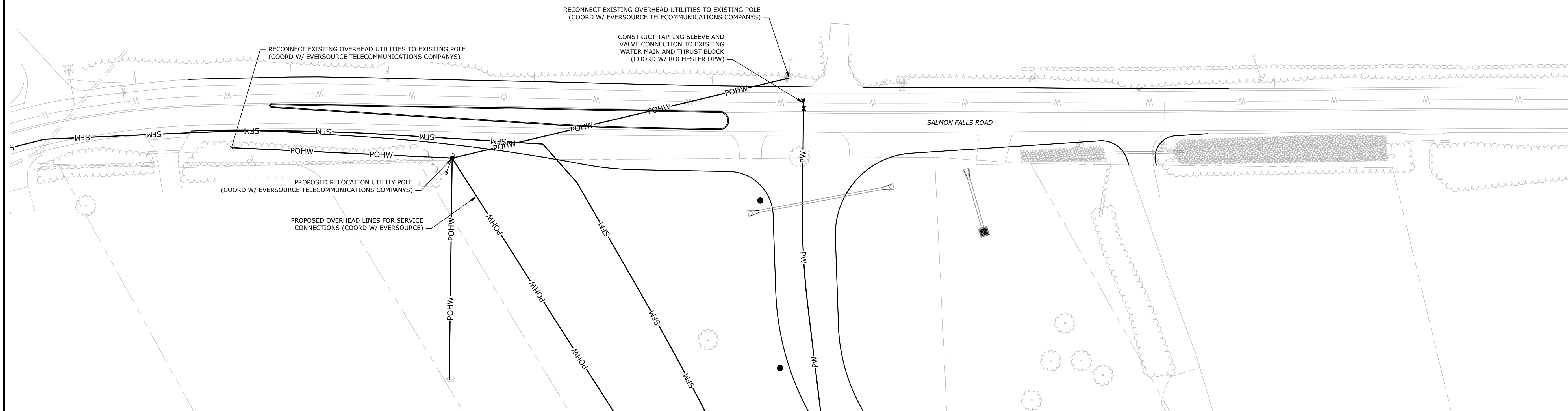
RECONM
(CODE)

Rochester School District

B	1/23/2024	REV TRG SUBMISSION
A	12/12/2023	PB SUBMISSION
MARK	DATE	DESCRIPTION
PROJECT NO: R5077-001		
DATE: 11/9/2023		
FILE: SS197-002_DSGN - VE LAYOUT 2.dwg		
DRAWN BY: NHW/CML		
DESIGNED/CHECKED BY: AFS/ED		
APPROVED BY: PMC		

SCALE: AS SHOWN

C-204



Last Saved: 1/22/2024 1:46pm By: CHM
Plotted On: Jan 22, 2024 1:46pm
Tighe & Bond 03555917.dwg 1/24 1/24 02 Drawings AutoCAD LT 977-002 DTLS.dwg

GENERAL PROJECT INFORMATION

PROJECT OWNER: ROCHESTER SCHOOL DISTRICT
753 SALMON FALLS ROAD
ROCHESTER, NH 03867
PROJECT NAME: ROCHESTER ELEMENTARY SCHOOL DEVELOPMENT
PROJECT ADDRESS: 753 SALMON FALLS ROAD
ROCHESTER, NH 03867
PROJECT MAP / LOT: MAP 227 / LOT 35
PROJECT LATITUDE: 43°-18'-38.19"N
PROJECT LONGITUDE: 70°-55'-46.45"W

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF BUILDING A NEW ELEMENTARY SCHOOL FACILITY IN ROCHESTER, NH THAT HAS A FOOTPRINT OF APPROXIMATELY 49,250 SF. THE WORK IS ANTICIPATED TO START IN SPRING 2024, AND BE COMPLETED BY FALL 2025.

DISTURBED AREA

THE TOTAL AREA TO BE DISTURBED IS APPROXIMATELY 9.70 ACRES.

SOIL CHARACTERISTICS

BASED ON THE USCS SITE SPECIFIC SOIL SURVEY CONDUCTED BY JAMES P. GOVE, ON SEPTEMBER 06, 2023 THE SOILS ON SITE CONSIST OF PRIMARILY WOODBRIDGE FINE SANDY LOAM & RIDGEBURY WITH A SMALL SECTION OF WHITMAN LOCATED IN THE WETLAND LOCATED CENTRALLY ON SITE. THE MAJORITY OF SOILS ON SITE ARE WELL-SOMEWHAT POORLY DRAINED SOILS WITH HYDROLOGIC SOIL GROUP RATINGS OF C & D.

NAME OF RECEIVING WATERS

THE STORMWATER RUNOFF FROM THE SITE WILL BE DISCHARGED VIA OVERLAND FLOW TO AN UNNAMED WETLAND.

CONSTRUCTION SEQUENCE OF MAJOR ACTIVITIES:

- CUT AND CLEAR TREES. GRUBBING SHALL NOT OCCUR UNTIL AFTER THE INSTALLATION OF PERIMETER CONTROLS.
- CONSTRUCT TEMPORARY AND PERMANENT SEDIMENT, EROSION AND DETENTION CONTROL FACILITIES. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATIONS THAT WILL INFLUENCE STORMWATER RUNOFF SUCH AS:
 - NEW CONSTRUCTION
 - DEVELOPMENT OF BORROW PIT AREAS
 - DISPOSAL OF SEDIMENT SPOIL, STUMP AND OTHER SOLID WASTE
 - FLOOD PLAIN EXCAVATION WORK
 - STREAM CHANNEL MODIFICATIONS
 - CONTROL OF DUST
 - CONSTRUCTION OF ACCESS AND HAUL ROAD
 - NEARNESS OF CONSTRUCTION SITE TO RECEIVING WATERS
 - CONSTRUCTION DURING LATE WINTER AND EARLY SPRING
- ALL PERMANENT DITCHES, SWALES, DETENTION, RETENTION AND SEDIMENTATION BASINS TO BE STABILIZED USING THE VEGETATIVE AND NON-STRUCTURAL BMPS PRIOR TO DIRECTING RUNOFF TO THEM.
- CLEAR AND DISPOSE OF DEBRIS.
- CONSTRUCT TEMPORARY CULVERTS AND DIVERSION CHANNELS AS REQUIRED.
- CONSTRUCT REQUIRED UTILITIES AND BUILDING(S)
- GRADE AND GRAVEL ROADWAYS AND PARKING AREAS - ALL ROADS AND PARKING AREA SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDDED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, PERIMETER EROSION CONTROL MEASURES, SEDIMENT TRAPS, ETC., MULCH AND SEED AS REQUIRED.
- SEDIMENT TRAPS AND/OR BASINS SHALL BE USED AS NECESSARY TO CONTAIN RUNOFF UNTIL SOILS ARE STABILIZED.
- FINISH PAVING ALL ROADWAYS AND PARKING LOTS.
- INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES.
- COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- REMOVE TRAPPED SEDIMENTS FROM COLLECTOR DEVICES AS APPROPRIATE AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES.

SPECIAL CONSTRUCTION NOTES:

- THE CONSTRUCTION SEQUENCE MUST LIMIT THE DURATION AND AREA OF DISTURBANCE. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.
- THE PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
- LOT DISTURBANCE, OTHER THAN THAT SHOWN ON THE APPROVED PLANS, SHALL NOT COMMENCE UNTIL AFTER THE ROADWAY HAS THE BASE COURSE TO DESIGN ELEVATION AND THE ASSOCIATED DRAINAGE IS COMPLETE AND STABLE. - THIS NOTE IS APPLICABLE TO SINGLE/DUPLEX FAMILY SUBDIVISIONS, WHEN LOT DEVELOPMENT IS NOT PART OF THE PERMIT.

EROSION CONTROL NOTES:

- ALL EROSION CONTROL MEASURES AND PRACTICES SHALL CONFORM TO THE "NEW HAMPSHIRE STORMWATER MANUAL VOLUME 3: EROSION AND SEDIMENT CONTROLS DURING CONSTRUCTION" PREPARED BY THE NHDES.
- PRIOR TO ANY WORK OR SOIL DISTURBANCE, CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR EROSION CONTROL MEASURES AS REQUIRED IN THE PROJECT MANUAL.
- CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL BARRIERS, INCLUDING HAY BALES, SILT FENCES, MULCH BERMS, SILT SACKS AND SILT SOCKS AS SHOWN IN THESE DRAWINGS AS THE FIRST ORDER OF WORK.
- SILT SACK INLET PROTECTION SHALL BE INSTALLED IN ALL EXISTING AND PROPOSED CATCH BASIN INLETS WITHIN THE WORK LIMITS AND BE MAINTAINED FOR THE DURATION OF THE PROJECT.
- PERIMETER CONTROLS INCLUDING SILT FENCES, MULCH BERM, SILT SOCK, AND/OR HAY BALE BARRIERS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT UNTIL NON-PAVED AREAS HAVE BEEN STABILIZED.
- THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF CONSTRUCTION.
- ALL DISTURBED AREAS NOT OTHERWISE BEING TREATED SHALL RECEIVE 6" LOAM, SEED AND FERTILIZER.
- INSPECT ALL INLET PROTECTION AND PERIMETER CONTROLS WEEKLY AND AFTER EACH RAIN STORM OF 0.25 INCH OR GREATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAXIMIZE EFFICIENCY OF FILTER. REPLACE ALL FILTERS WHEN SEDIMENT IS 1/3 THE FILTER HEIGHT.
- CONSTRUCT EROSION CONTROL BLANKETS ON ALL SLOPES STEEPER THAN 3:1.

STABILIZATION:

- AN AREA SHALL BE CONSIDERED STABLE WHEN ONE OF THE FOLLOWING HAS OCCURRED:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
 - A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
 - A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED;
 - EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.;
 - IN AREAS TO BE PAVED, "STABLE" MEANS THAT BASE COURSE GRAVELS MEETING THE REQUIREMENTS OF NHDOT STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, ITEM 304.2 HAVE BEEN INSTALLED.
- WINTER STABILIZATION PRACTICES:
 - ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS;

- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS;
 - AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3, OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT;
- STABILIZATION SHALL BE INITIATED ON ALL LOAM STOCKPILES, AND DISTURBED AREAS, WHERE CONSTRUCTION ACTIVITY SHALL NOT OCCUR FOR MORE THAN TWENTY-ONE (21) CALENDAR DAYS BY THE FOURTEENTH (14TH) DAY AFTER CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED IN THAT AREA. STABILIZATION MEASURES TO BE USED INCLUDE:
 - TEMPORARY SEEDING;
 - MULCHING.
 - ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
 - WHEN CONSTRUCTION ACTIVITY PERMANENTLY OR TEMPORARILY CEASES WITHIN 100 FEET OF NEARBY SURFACE WATERS OR DELINEATED WETLANDS, THE AREA SHALL BE STABILIZED WITHIN SEVEN (7) DAYS OR PRIOR TO A RAIN EVENT. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN THESE AREAS, SILT FENCES, MULCH BERMS, HAY BALE BARRIERS AND ANY EARTH/DIKES SHALL BE REMOVED ONCE PERMANENT MEASURES ARE ESTABLISHED.
 - DURING CONSTRUCTION, RUNOFF WILL BE DIVERTED AROUND THE SITE WITH EARTH DIKES, PIPING OR STABILIZED CHANNELS WHERE POSSIBLE. SHEET RUNOFF FROM THE SITE WILL BE FILTERED THROUGH SILT FENCES, MULCH BERMS, HAY BALE BARRIERS, OR SILT SOCKS. ALL STORM DRAIN BASIN INLETS SHALL BE PROVIDED WITH FLARED END SECTIONS AND TRASH RACKS. THE SITE SHALL BE STABILIZED FOR THE WINTER BY OCTOBER 15.

DUST CONTROL:

- THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST THROUGHOUT THE CONSTRUCTION PERIOD.
- DUST CONTROL METHODS SHALL INCLUDE, BUT BE NOT LIMITED TO SPRINKLING WATER ON EXPOSED AREAS, COVERING LOADED DUMP TRUCKS LEAVING THE SITE, AND TEMPORARY MULCHING.

DUST CONTROL MEASURES SHALL BE UTILIZED SO AS TO PREVENT THE MIGRATION OF DUST FROM THE SITE TO ABUTTING AREAS.

STOCKPILES:

- LOCATE STOCKPILES A MINIMUM OF 50 FEET AWAY FROM CATCH BASINS, SWALES, AND CULVERTS.
- ALL STOCKPILES SHOULD BE SURROUNDED WITH TEMPORARY EROSION CONTROL MEASURES PRIOR TO THE ONSET OF PRECIPITATION.
- PERIMETER BARRIERS SHOULD BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIALS FROM THE STOCKPILE. THE INTEGRITY OF THE BARRIER SHOULD BE INSPECTED AT THE END OF EACH WORKING DAY.
- PROTECT ALL STOCKPILES FROM STORMWATER RUN-OFF USING TEMPORARY EROSION CONTROL MEASURES SUCH AS BERMS, SILT SOCK, OR OTHER APPROVED PRACTICE TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILES.

OFF SITE VEHICLE TRACKING:

- THE CONTRACTOR SHALL CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE(S) PRIOR TO ANY EXCAVATION ACTIVITIES.

VEGETATION:

- TEMPORARY GRASS COVER:
 - SEEDBED PREPARATION:
 - APPLY FERTILIZER AT THE RATE OF 600 POUNDS PER ACRE OF 10-10-10. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF THREE (3) TONS PER ACRE;
 - SEEDING:
 - UTILIZE ANNUAL RYE GRASS AT A RATE OF 40 LBS/ACRE;
 - WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF TWO (2) INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED;
 - APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). HYDROSEEDINGS, WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING;
 - MAINTENANCE:
 - TEMPORARY SEEDING SHALL BE PERIODICALLY INSPECTED. AT A MINIMUM, 95% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND OTHER TEMPORARY MEASURES USED IN THE INTERIM (MULCH, FILTER BARRIERS, CHECK DAMS, ETC.).
- PERMANENT MEASURES AND PLANTINGS:
 - LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF THREE (3) TONS PER ACRE IN ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5;
 - FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 800 POUNDS PER ACRE OF 10-20-20 FERTILIZER;
 - SOIL CONDITIONERS AND FERTILIZER SHALL BE APPLIED AT THE RECOMMENDED RATES AND SHALL BE THOROUGHLY WORKED INTO THE LOAM. LOAM SHALL BE RAKED UNTIL THE SURFACE IS FINELY PULVERIZED, SMOOTH AND EVEN, AND THEN COMPACTED TO AN EVEN SURFACE CONFORMING TO THE REQUIRED LINES AND GRADES WITH APPROVED ROLLERS WEIGHING BETWEEN 4-1/2 POUNDS AND 5-1/2 POUNDS PER INCH OF WIDTH;
 - SEED SHALL BE SOWN AT THE RATE SHOWN BELOW. SOWING SHALL BE DONE ON A CALM, DRY DAY, PREFERABLY BY MACHINE, BUT IF BY HAND, ONLY BY EXPERIENCED WORKMEN. IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH;
 - HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AS INDICATED ABOVE;
 - THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED WITH GRASS SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS REMOVED;
 - THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE SEEDED AREAS UNTIL ACCEPTED;
 - A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE APPLIED AT THE INDICATED RATE:

SEED MIX	APPLICATION RATE
CREeping RED FESCUE	40 LBS/ACRE
PERENNIAL RYEGRASS	50 LBS/ACRE
KENTUCKY BLUEGRASS	25 LBS/ACRE
REDTOP	5 LBS/ACRE

IN NO CASE SHALL THE WEED CONTENT EXCEED ONE (1) PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH STATE AND FEDERAL SEED LAWS. SEEDING SHALL BE DONE NO LATER THAN SEPTEMBER 15. IN NO CASE SHALL SEEDING TAKE PLACE OVER SNOW.

- DORMANT SEEDING (SEPTEMBER 15 TO FIRST SNOWFALL):
 - FOLLOW PERMANENT MEASURES SLOPE, LIME, FERTILIZER AND GRADING REQUIREMENTS. APPLY SEED MIXTURE AT TWICE THE INDICATED RATE. APPLY MULCH AS INDICATED FOR PERMANENT MEASURES.

CONCRETE WASHOUT AREA:

- THE FOLLOWING ARE THE ONLY NON-STORMWATER DISCHARGES ALLOWED. ALL OTHER NON-STORMWATER DISCHARGES ARE PROHIBITED ON SITE:
 - THE CONCRETE DELIVERY TRUCKS SHALL, WHENEVER POSSIBLE, USE WASHOUT FACILITIES AT THEIR OWN PLANT OR DISPATCH FACILITY;
 - IF IT IS NECESSARY, SITE CONTRACTOR SHALL DESIGNATE SPECIFIC WASHOUT AREAS AND DESIGN FACILITIES TO HANDLE ANTICIPATED WASHOUT WATER;
 - CONTRACTOR SHALL LOCATE WASHOUT AREAS AT LEAST 150 FEET AWAY FROM STORM DRAINS, SWALES AND SURFACE WATERS OR DELINEATED WETLANDS;

- INSPECT WASHOUT FACILITIES DAILY TO DETECT LEAKS OR TEARS AND TO IDENTIFY WHEN MATERIALS NEED TO BE REMOVED.

ALLOWABLE NON-STORMWATER DISCHARGES:

- FIRE-FIGHTING ACTIVITIES;
- FIRE HYDRANT FLUSHING;
- WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED;
- WATER USED TO CONTROL DUST;
- POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHING;
- ROUTINE EXTERNAL BUILDING WASH DOWN WHERE DETERGENTS ARE NOT USED;
- PAVEMENT WASH WATERS WHERE DETERGENTS ARE NOT USED;
- UNCONTAMINATED AIR CONDITIONING/COMPRESSOR CONDENSATION;
- UNCONTAMINATED GROUND WATER OR SPRING WATER;
- FOUNDATION OR FOOTING DRAINS WHICH ARE UNCONTAMINATED;
- UNCONTAMINATED EXCAVATION DEWATERING;
- LANDSCAPE IRRIGATION.

WASTE DISPOSAL:

- WASTE MATERIAL:
 - ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN A DUMPSTER;
 - NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE;
 - ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE SUPERINTENDENT.
- HAZARDOUS WASTE:
 - ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER;
 - SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT.
- SANITARY WASTE:
 - ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

SPILL PREVENTION:

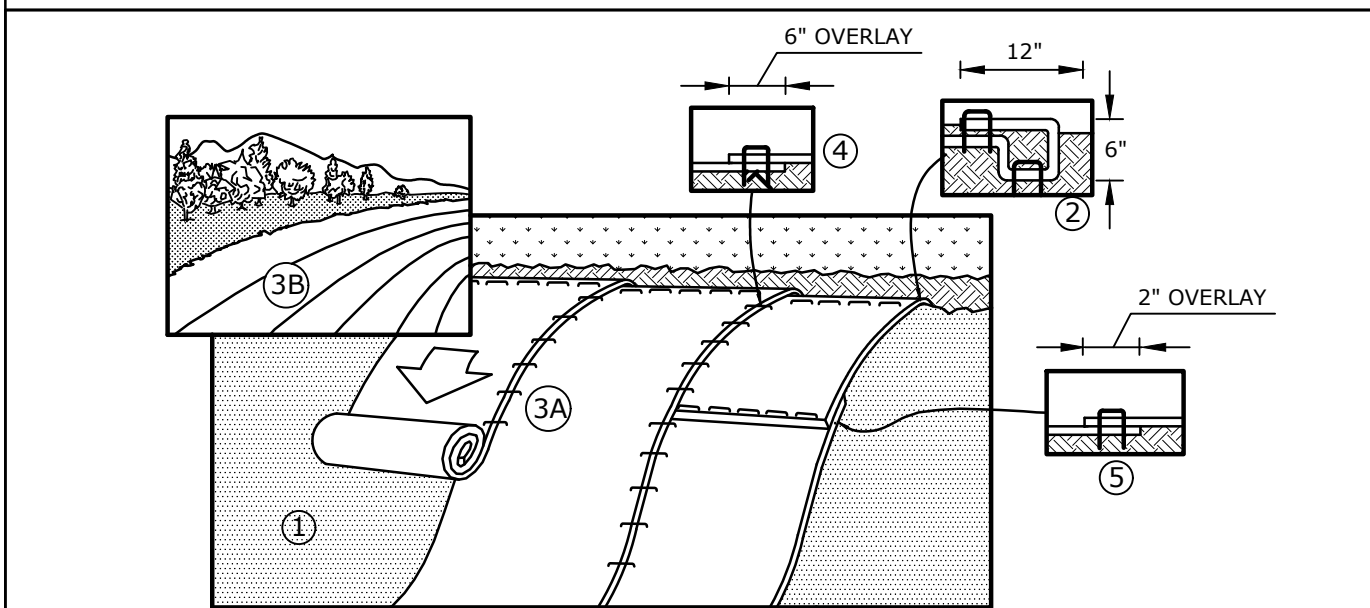
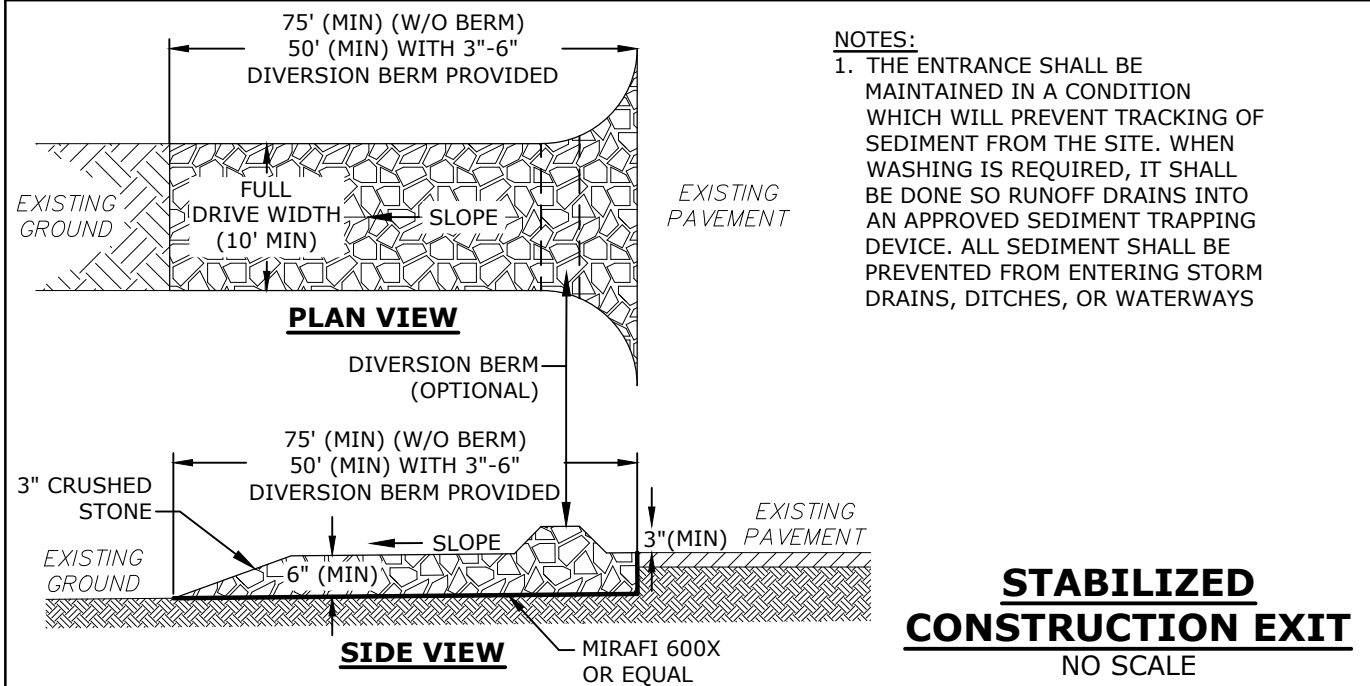
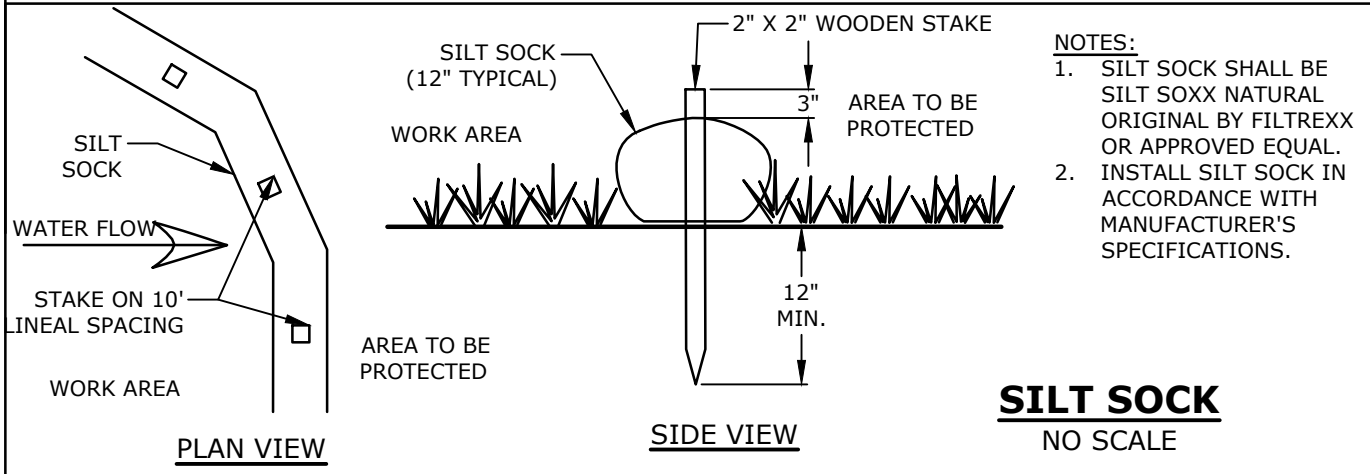
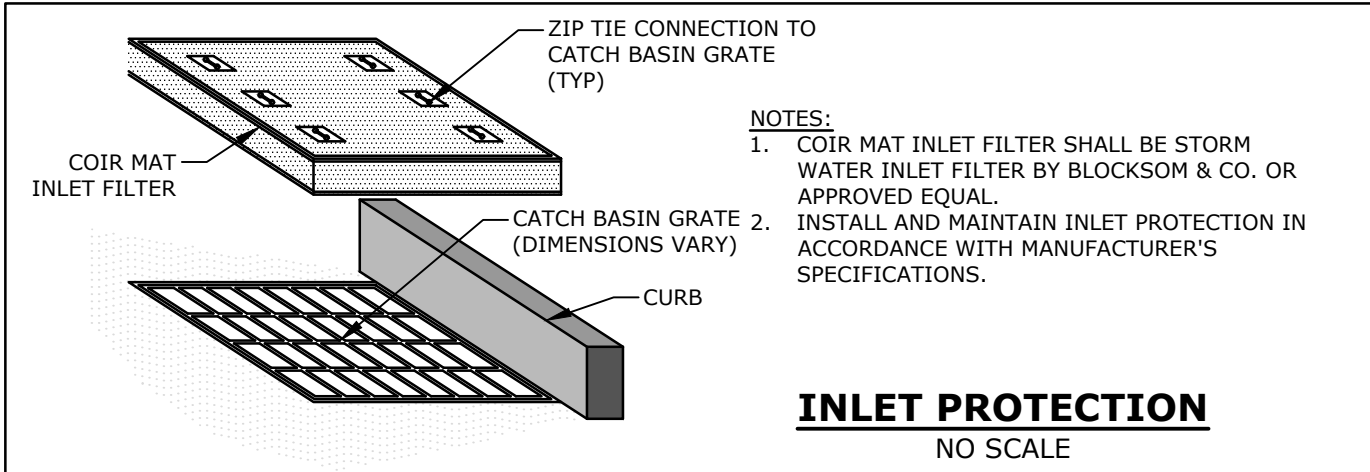
- CONTRACTOR SHALL BE FAMILIAR WITH SPILL PREVENTION MEASURES REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES. AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE BEST MANAGEMENT SPILL PREVENTION PRACTICES OUTLINED BELOW.
- THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES DURING CONSTRUCTION TO STORMWATER RUNOFF:
 - GOOD HOUSEKEEPING - THE FOLLOWING GOOD HOUSEKEEPING PRACTICE SHALL BE FOLLOWED ON SITE DURING CONSTRUCTION:
 - ONLY SUFFICIENT AMOUNTS OF PRODUCTS TO DO THE JOB SHALL BE STORED ON SITE;
 - ALL REGULATED MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE, ON AN IMPERVIOUS SURFACE;
 - MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED;
 - THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS;
 - SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER;
 - WHENEVER POSSIBLE ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
 - THE TRAINING OF ON-SITE EMPLOYEES AND THE ON-SITE POSTING OF RELEASE RESPONSE INFORMATION DESCRIBING WHAT TO DO IN THE EVENT OF A SPILL OF REGULATED SUBSTANCES.
 - HAZARDOUS PRODUCTS - THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:
 - PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE;
 - ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED FOR IMPORTANT PRODUCT INFORMATION;
 - SURPLUS PRODUCT THAT MUST BE DISPOSED OF SHALL BE DISCARDED ACCORDING TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL.
 - PRODUCT SPECIFIC PRACTICES - THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ON SITE:
 - PETROLEUM PRODUCTS:
 - ALL ON SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE LEAKAGE;
 - PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT BASED SUBSTANCES USED ON SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
 - SECURE FUEL STORAGE AREAS AGAINST UNAUTHORIZED ENTRY;
 - INSPECT FUEL STORAGE AREAS WEEKLY;
 - WHEREVER POSSIBLE, KEEP REGULATED CONTAINERS THAT ARE STORED OUTSIDE MORE THAN 50 FEET FROM SURFACE WATER AND STORM DRAINS, 75 FEET FROM PRIVATE WELLS, AND 400 FEET FROM PUBLIC WELLS;
 - COVER REGULATED CONTAINERS IN OUTSIDE STORAGE AREAS;
 - SECONDARY CONTAINMENT IS REQUIRED FOR CONTAINERS CONTAINING REGULATED SUBSTANCES STORED OUTSIDE, EXCEPT FOR ON PREMISE USE HEATING FUEL TANKS, OR ABOVEGROUND OR UNDERGROUND STORAGE TANKS OTHERWISE REGULATED.
 - THE FUEL HANDLING REQUIREMENTS SHALL INCLUDE:
 - EXCEPT WHEN IN USE, KEEP CONTAINERS CONTAINING REGULATED SUBSTANCES CLOSED AND SEALED;
 - PLACE DRIP PANS UNDER SPIGOTS, VALVES, AND PUMPS;
 - HAVE SPILL CONTROL AND CONTAINMENT EQUIPMENT READILY AVAILABLE IN ALL WORK AREAS;
 - USE FUNNELS AND DRIP PANS WHEN TRANSFERRING REGULATED SUBSTANCES;
 - PERFORM TRANSFERS OF REGULATED SUBSTANCES OVER AN IMPERVIOUS SURFACE.
 - FUELING AND MAINTENANCE OF EXCAVATION, EARTHMOVING AND OTHER CONSTRUCTION RELATED EQUIPMENT SHALL COMPLY WITH THE REGULATIONS OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES THESE REQUIREMENTS ARE SUMMARIZED IN WD-DWGB-22-6 BEST MANAGEMENT PRACTICES FOR FUELING AND MAINTENANCE OF EXCAVATION AND EARTHMOVING EQUIPMENT, OR ITS SUCCESSOR DOCUMENT.
<https://www.des.nh.gov/sites/g/files/ehbmt341/files/documents/2020-01/dwgb-22-6.pdf>
 - FERTILIZERS:
 - FERTILIZERS USED SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED BY THE SPECIFICATIONS;
 - ONCE APPLIED FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER;
 - STORAGE SHALL BE IN A COVERED SHED OR ENCLOSED TRAILERS. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
 - PAINTS:
 - ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE;
 - EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM;
 - EXCESS PAINT SHALL BE DISPOSED OF PROPERLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.
- SPILL CONTROL PRACTICES - IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTION, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
 - MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES;
 - MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS SHALL INCLUDE BUT

NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST AND PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE;

- ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY;
 - THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE;
 - SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE APPROPRIATE LOCAL, STATE OR FEDERAL AGENCIES AS REQUIRED;
 - THE SITE SUPERINTENDENT RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.
- VEHICLE FUELING AND MAINTENANCE PRACTICE:
- CONTRACTOR SHALL MAKE AN EFFORT TO PERFORM EQUIPMENT/VEHICLE FUELING AND MAINTENANCE AT AN OFF-SITE FACILITY;
 - CONTRACTOR SHALL PROVIDE AN ON-SITE FUELING AND MAINTENANCE AREA THAT IS CLEAN AND DRY;
 - IF POSSIBLE THE CONTRACTOR SHALL KEEP AREA COVERED;
 - CONTRACTOR SHALL KEEP A SPILL KIT AT THE FUELING AND MAINTENANCE AREA;
 - CONTRACTOR SHALL REGULARLY INSPECT VEHICLES FOR LEAKS AND DAMAGE;
 - CONTRACTOR SHALL USE DRIP PANS, DRIP CLOTHS, OR ABSORBENT PADS WHEN REPLACING SPENT FLUID.

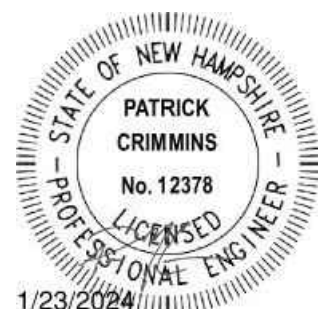
EROSION CONTROL OBSERVATIONS AND MAINTENANCE PRACTICES

- THIS PROJECT EXCEEDS ONE (1) ACRE OF DISTURBANCE AND THUS REQUIRES A SWPPP. THE SWPPP SHALL BE PREPARED BY A QUALIFIED ENGINEER. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SWPPP AND KEEP AN UPDATED COPY OF THE SWPPP ONSITE AT ALL TIMES.
- THE FOLLOWING REPRESENTS THE GENERAL OBSERVATION AND REPORTING PRACTICES THAT SHALL BE FOLLOWED AS PART OF THIS PROJECT:
 - OBSERVATIONS OF THE PROJECT FOR COMPLIANCE WITH THE SWPPP SHALL BE MADE BY A QUALIFIED PERSON AT LEAST ONCE A WEEK OR WITHIN 24 HOURS OF A STORM 0.25 INCHES OR GREATER;
 - AN OBSERVATION REPORT SHALL BE MADE AFTER EACH OBSERVATION AND DISTRIBUTED TO THE ENGINEER, THE OWNER, AND THE CONTRACTOR;
 - A REPRESENTATIVE OF THE SITE CONTRACTOR, SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR ACTIVITIES;
 - IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.



- NOTES:
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED.
 - BEGIN AT THE TOP OF THE SLOPE. 35" OVER THE GRADE BREAK, BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UPSLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES SPACED 12" APART ACROSS THE WIDTH OF THE BLANKET.
 - ROLL THE BLANKETS DOWN THE SLOPE. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SOIL SURFACE BY PLACING STAPLES IN APPROPRIATE LOCATIONS AS SHOWN ON THE STAPLE PATTERN GUIDE.
 - STAPLE LENGTHS SHALL BE A MINIMUM OF 8 INCHES.
 - THERE SHALL BE NO PLASTIC, OR MULTI-FLAMED OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN 1/8 INCHES MATERIAL UTILIZED.

Tighe & Bond



ROCHESTER
ELEMENTARY
SCHOOL

753 Salmon Falls
Road Rochester,
NH 03868

Rochester School
District

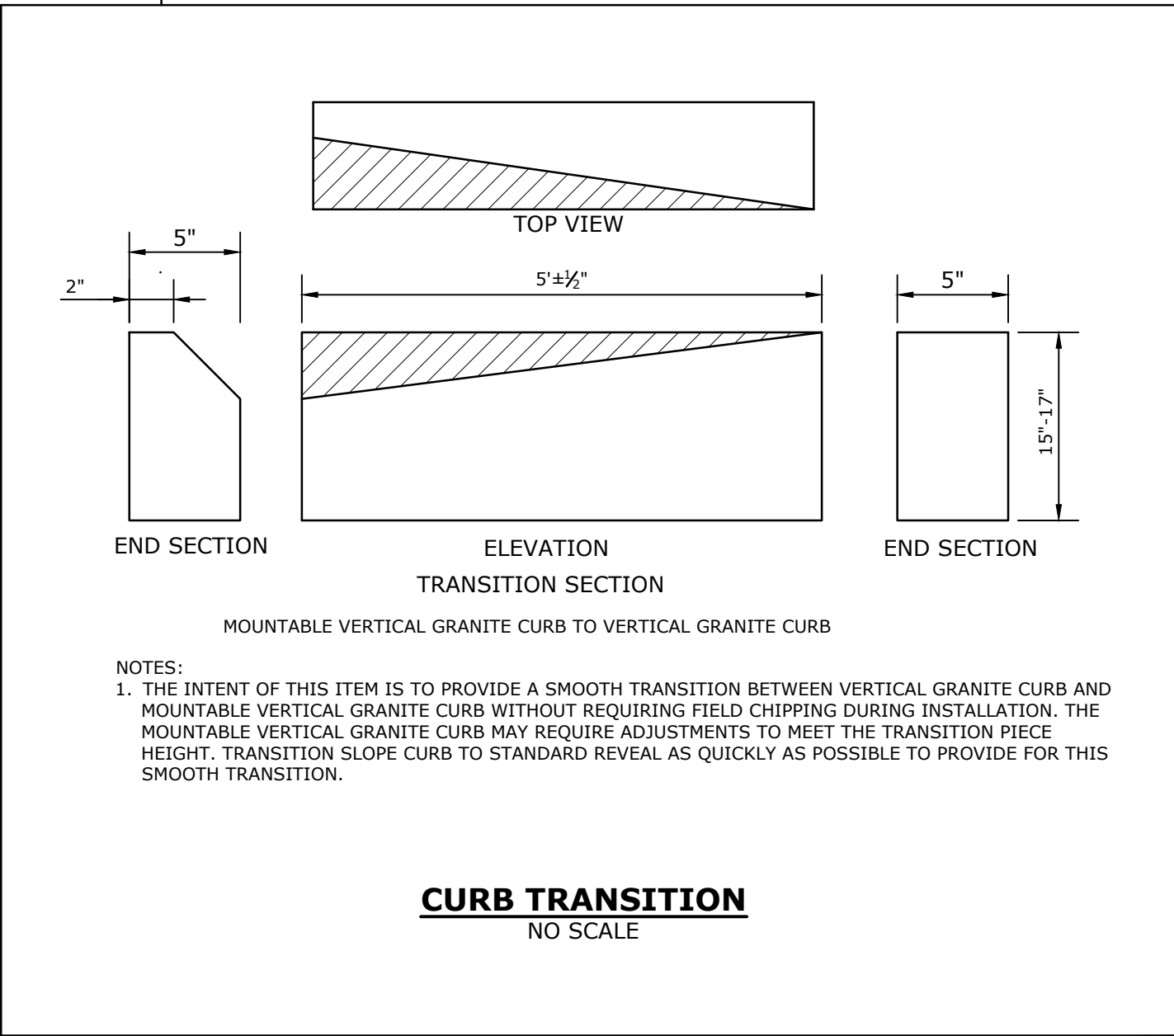
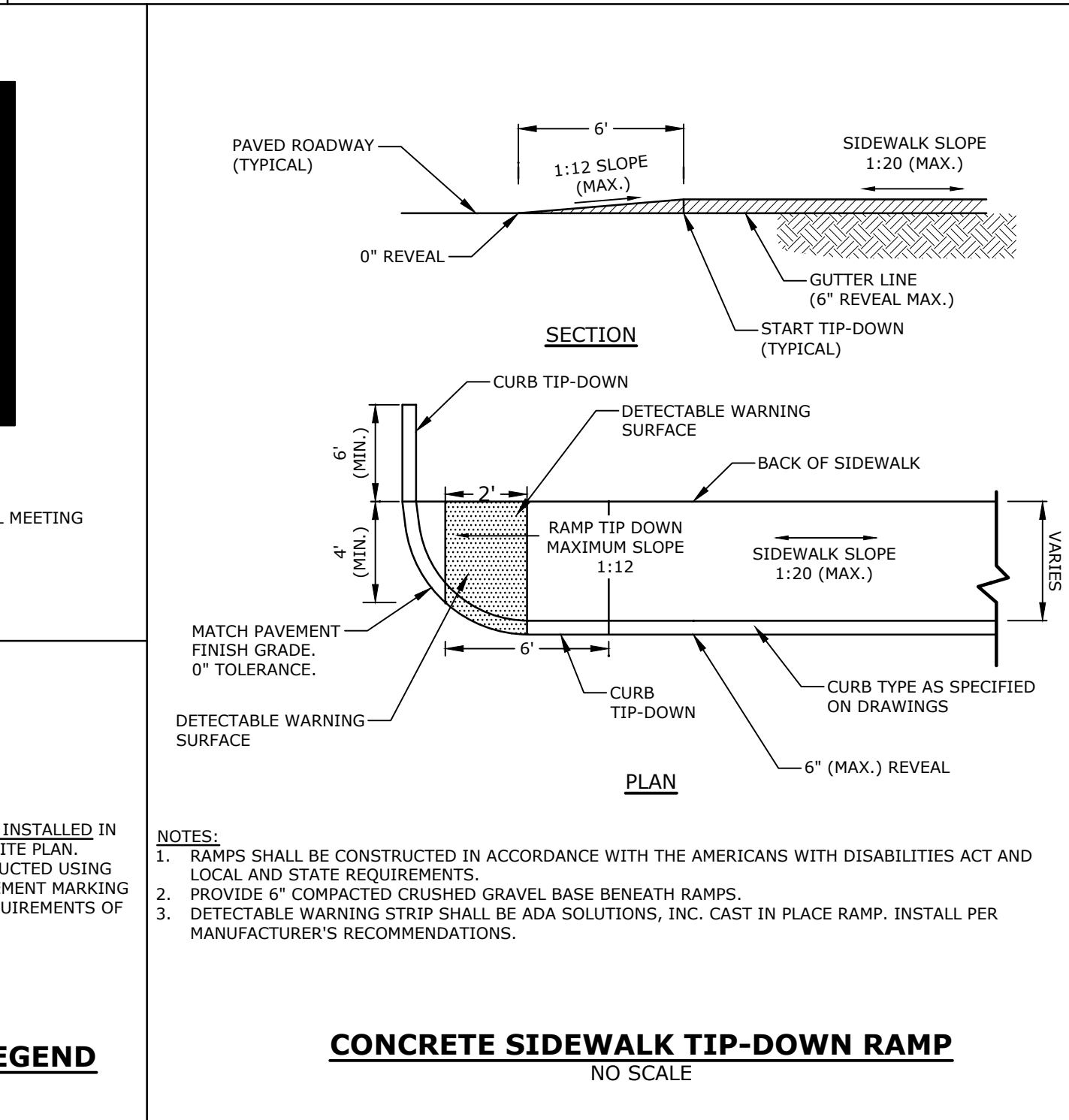
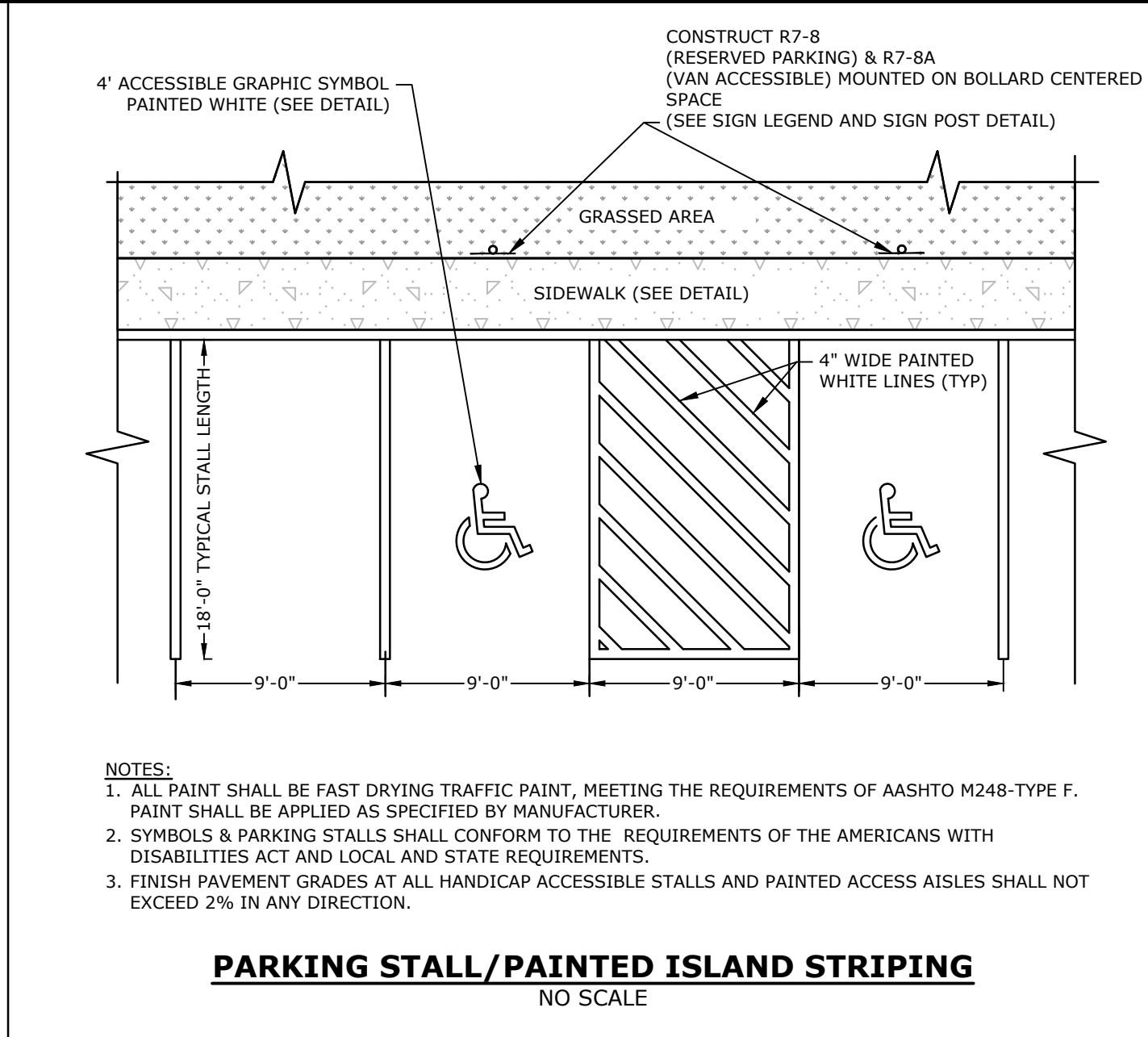
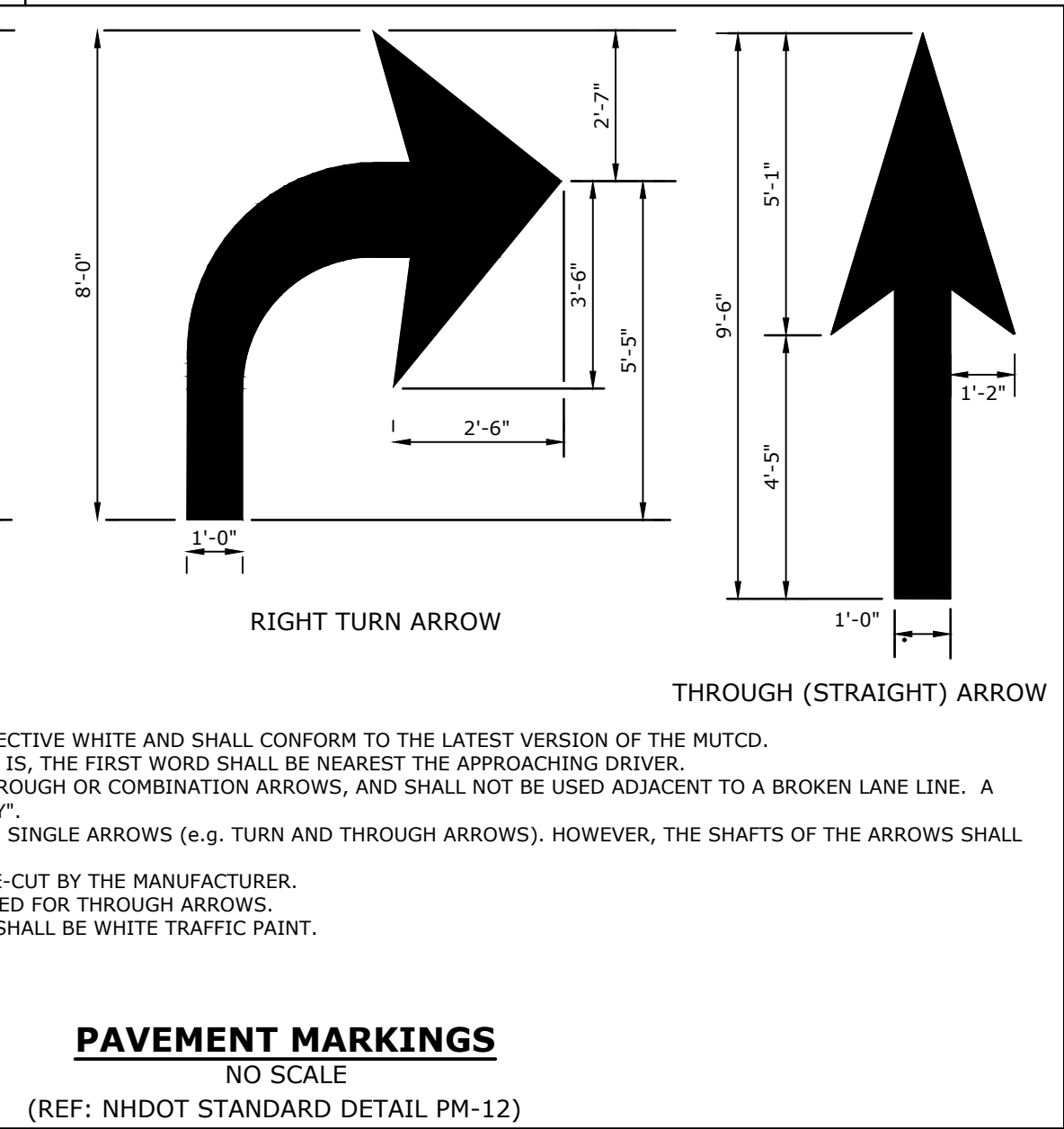
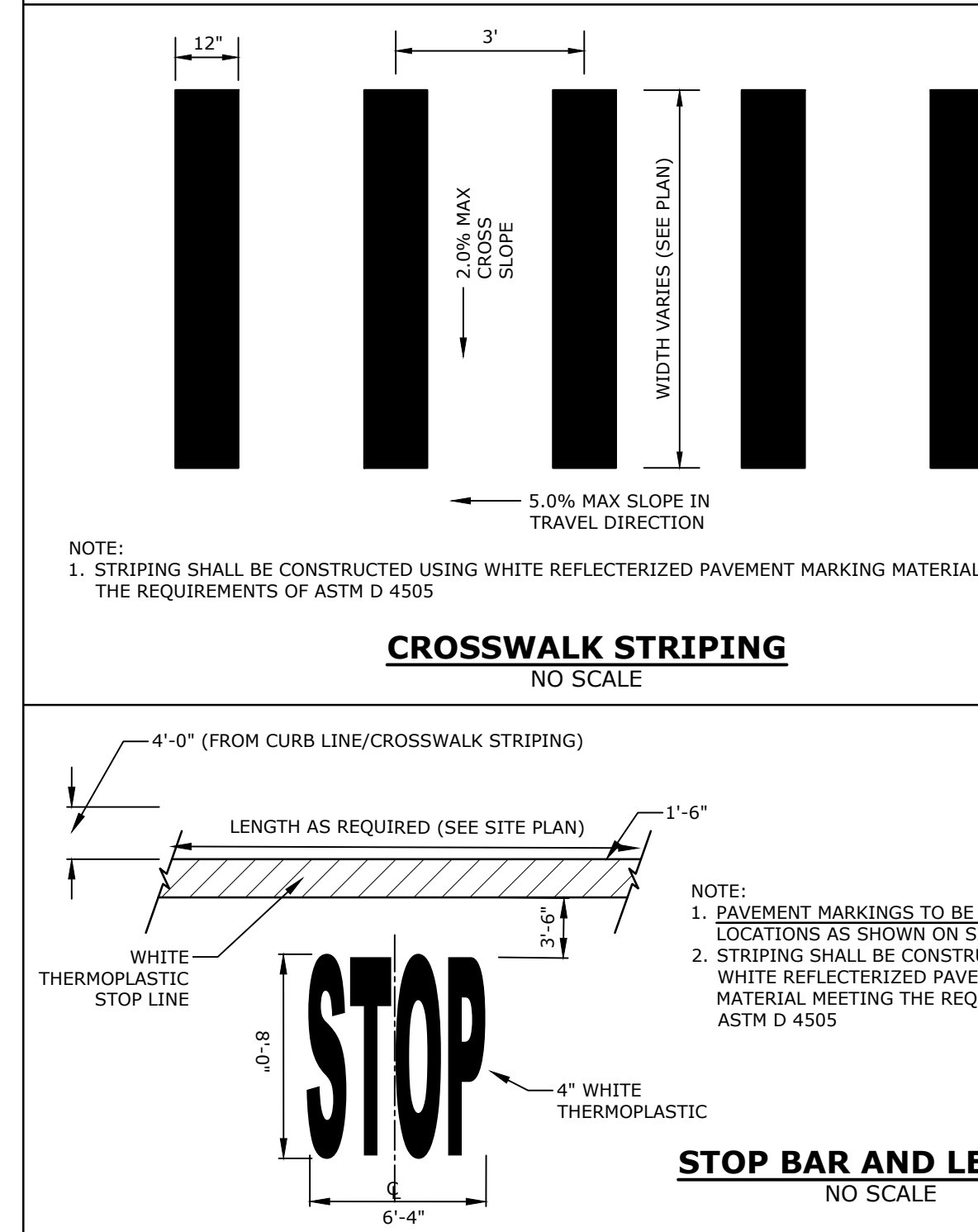
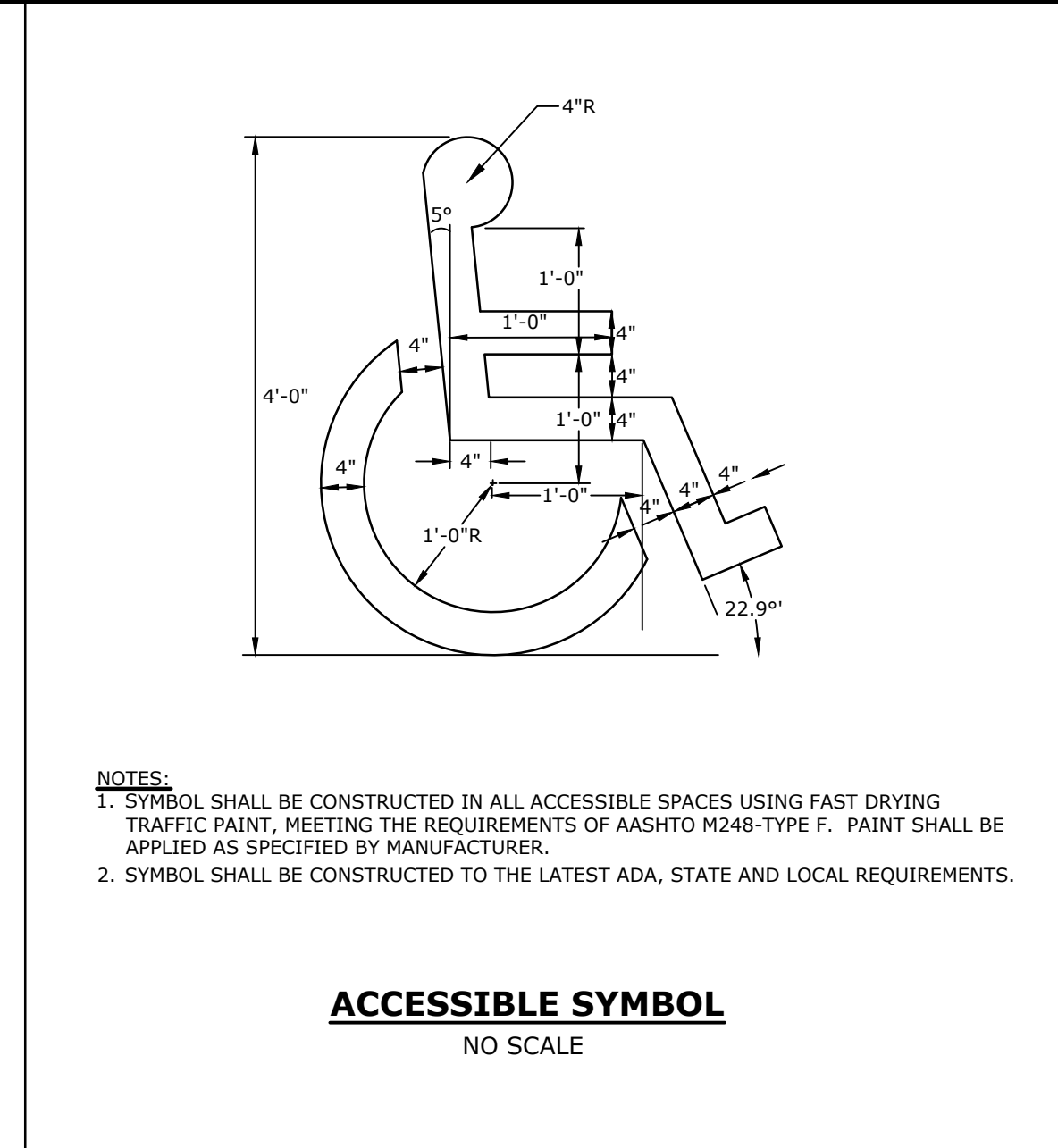
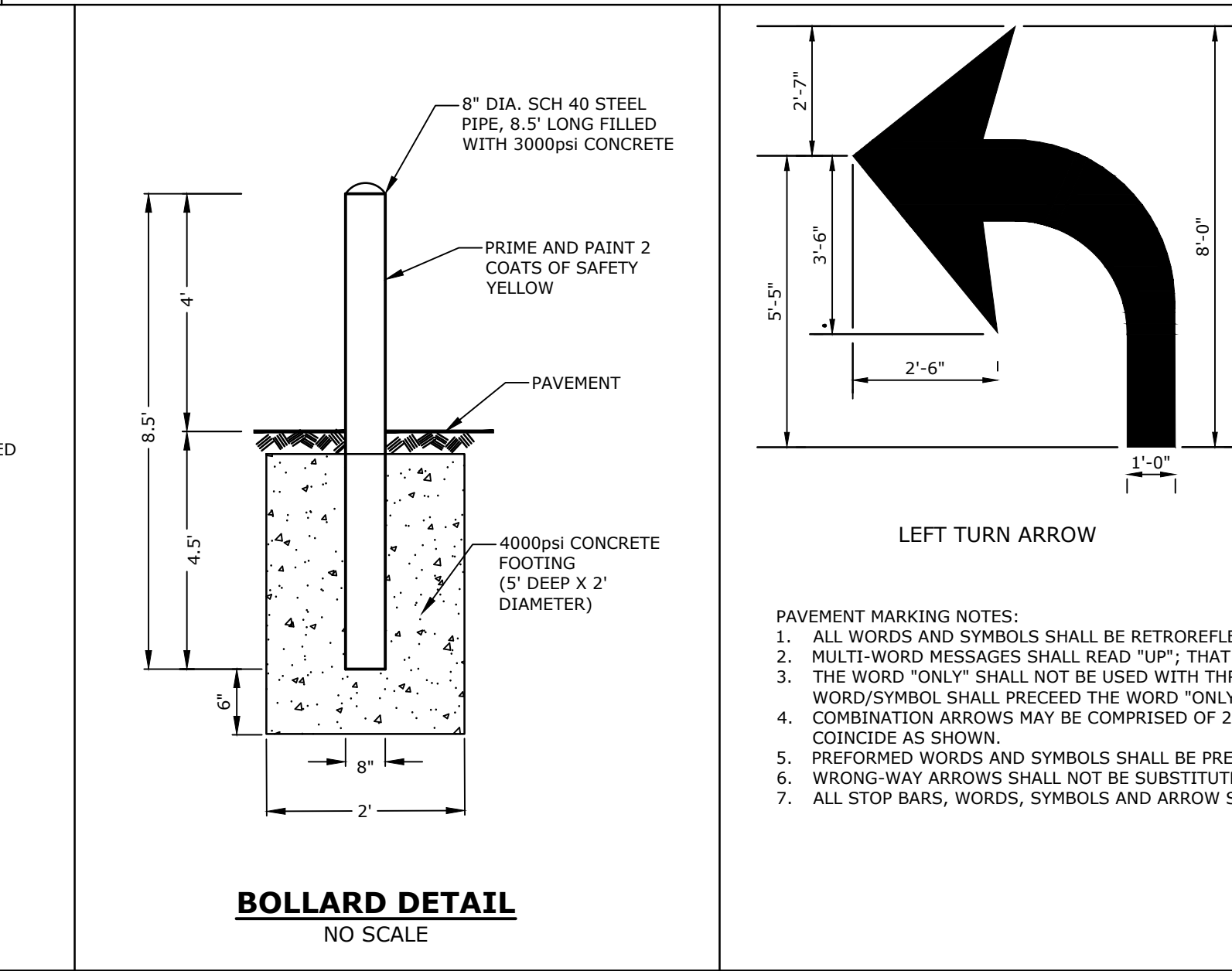
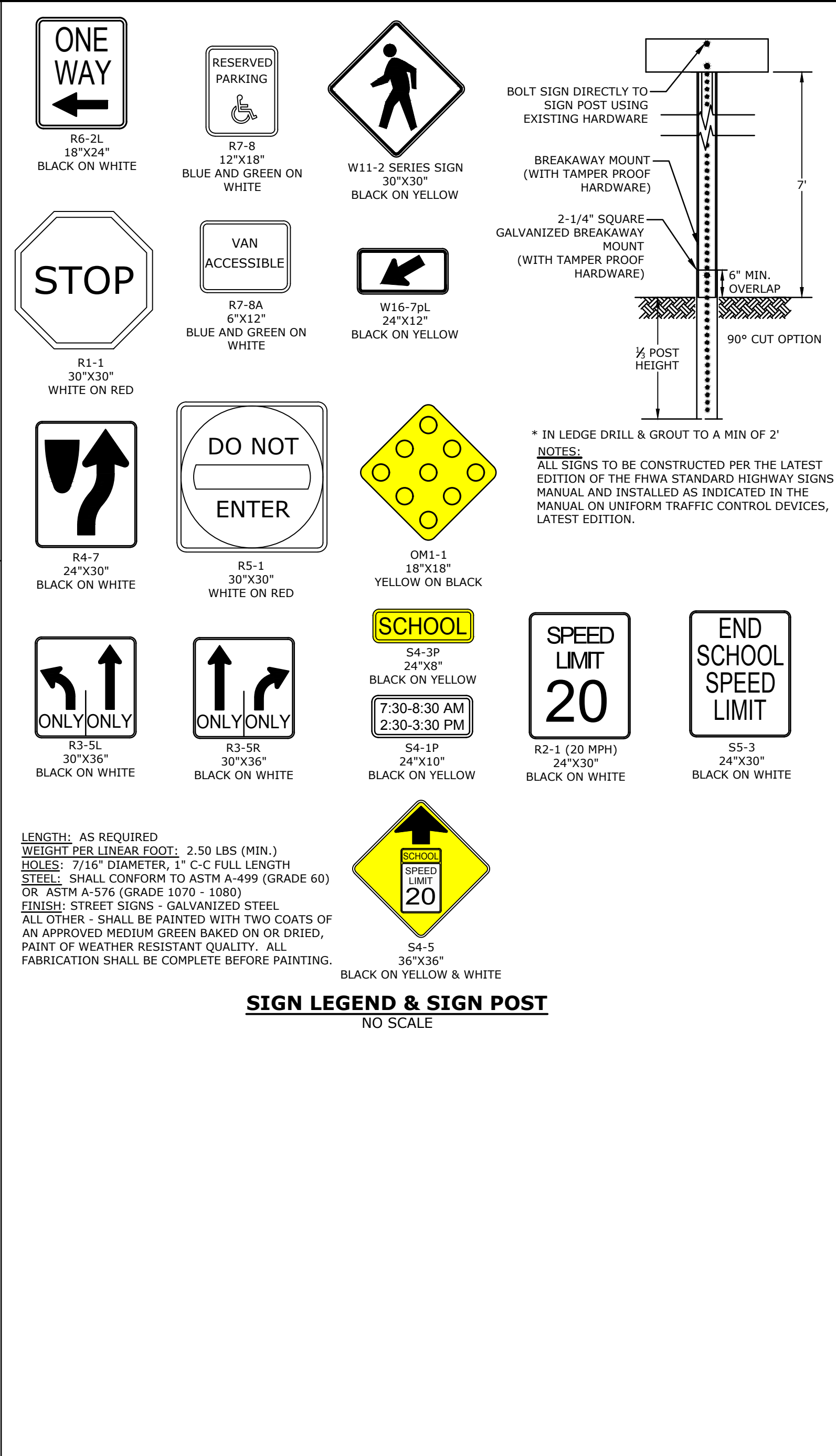
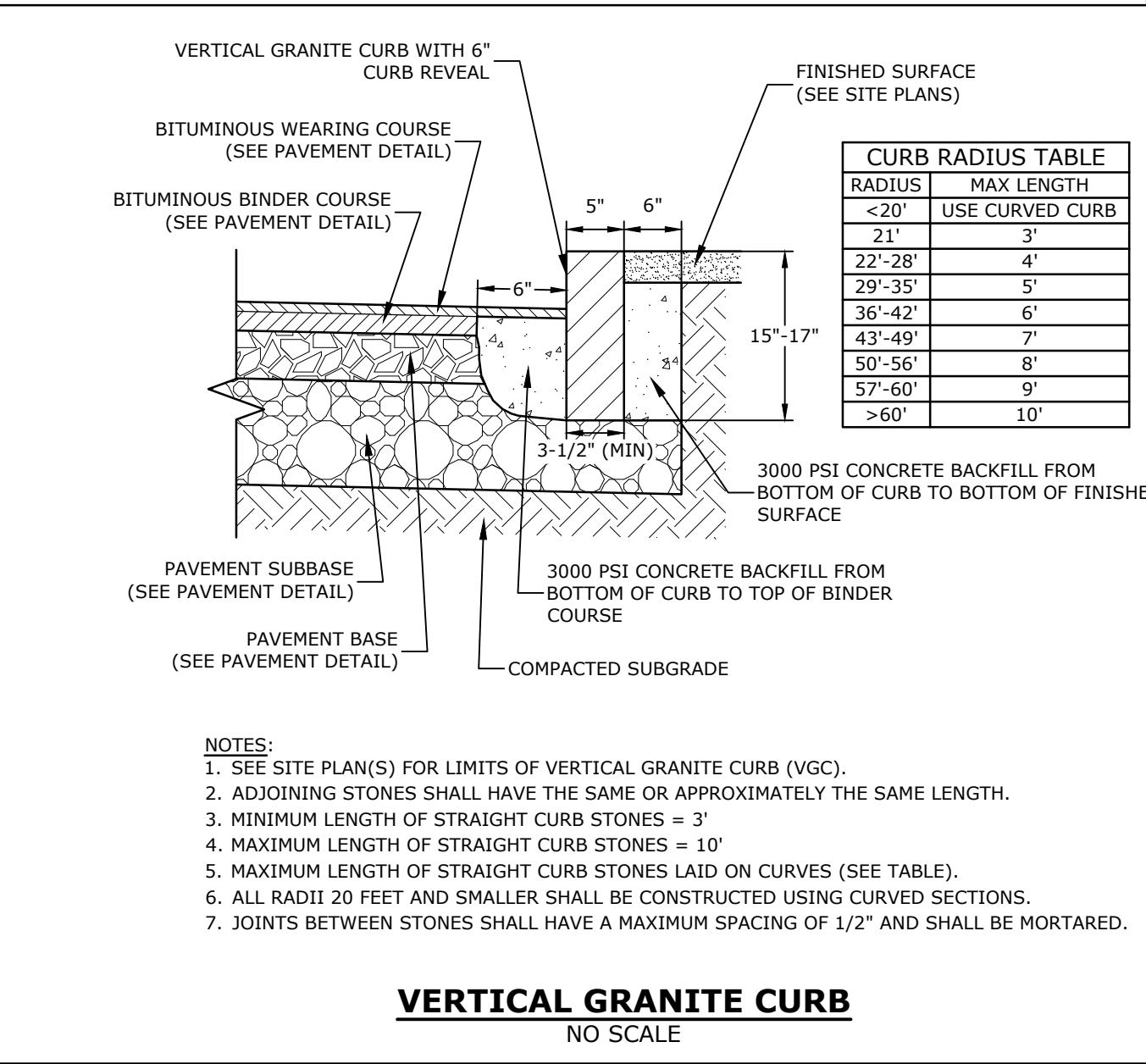
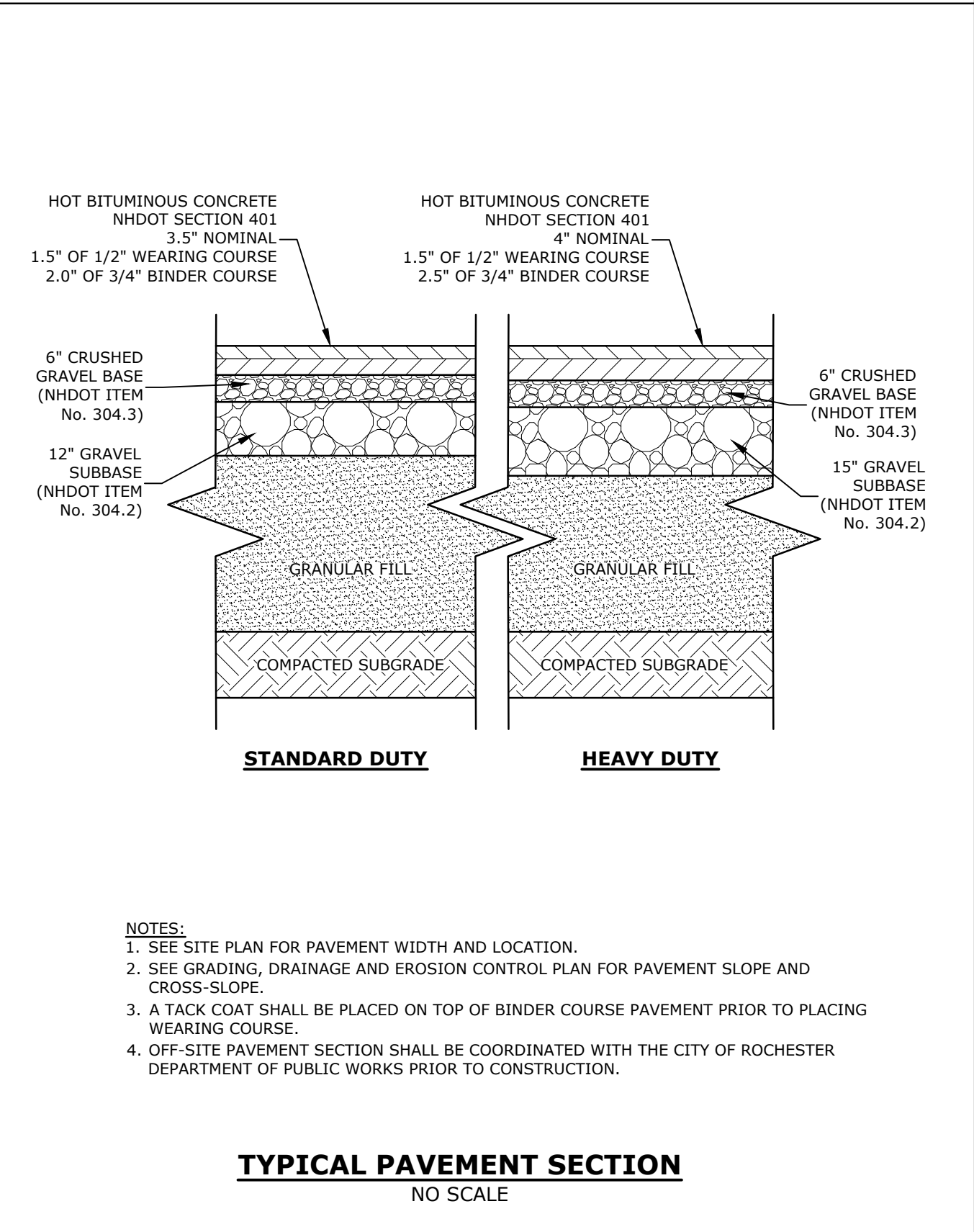
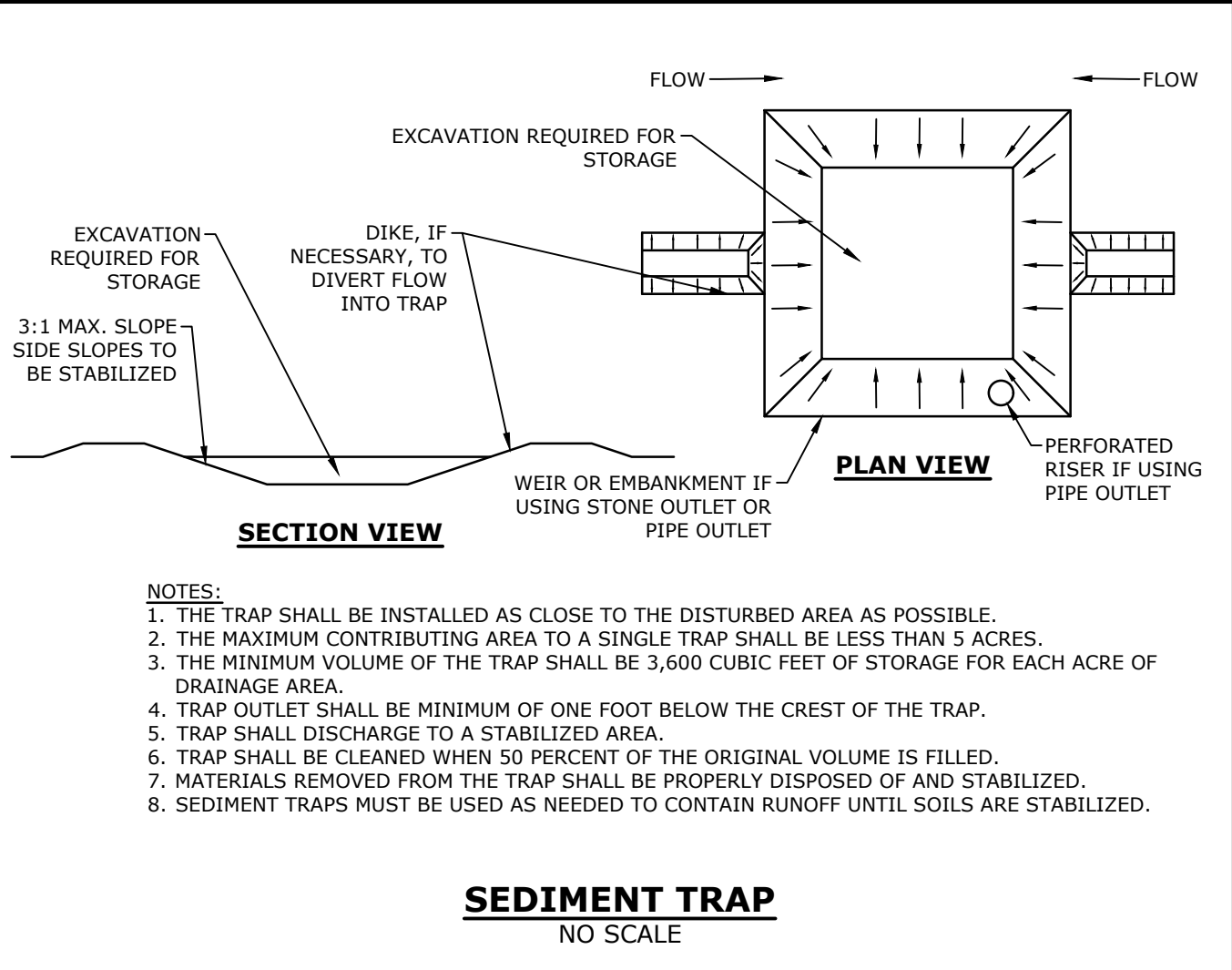
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B	1/19/2024	AOT RFMI RESPONSE
A	12/12/2023	PB SUBMISSION
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PROJECT NO:	R5077-001	
DATE:	11/9/2023	
FILE:	S5197-002-DTLS.dwg	
DRAWN BY:	NHW/CML	
DESIGNED/CHECKED BY:	AFS/ED	
APPROVED BY:	PMC	

EROSION CONTROL NOTES
& DETAILS

SCALE: AS SHOWN

C-501

Last Saved: 1/22/2024
Plotted On: Jan 22, 2024 1:45pm By: CH
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AutoCAD: S197-002_DTLS.dwg



Tighe&Bond

STATE OF NEW HAMPSHIRE
PROFESSIONAL ENGINEER
PATRICK CRIMMINS
No. 12378
1/23/2024

ROCHESTER ELEMENTARY SCHOOL

753 Salmon Falls Road Rochester, NH 03868

Rochester School District

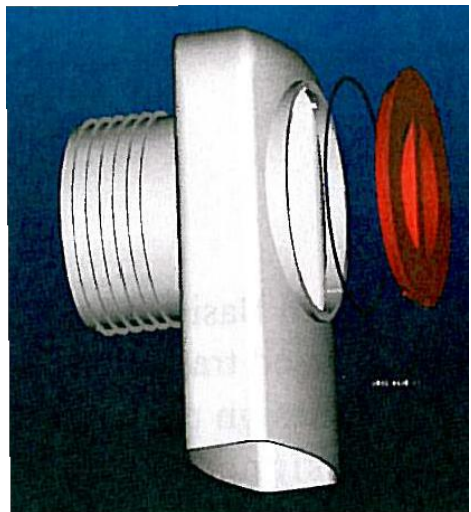
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APPROVED BY: PMC

DETAILS

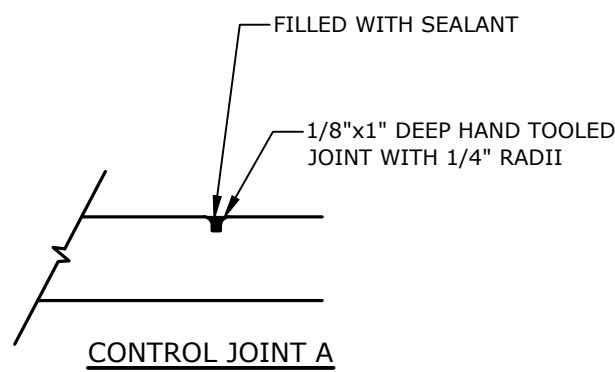
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C-502

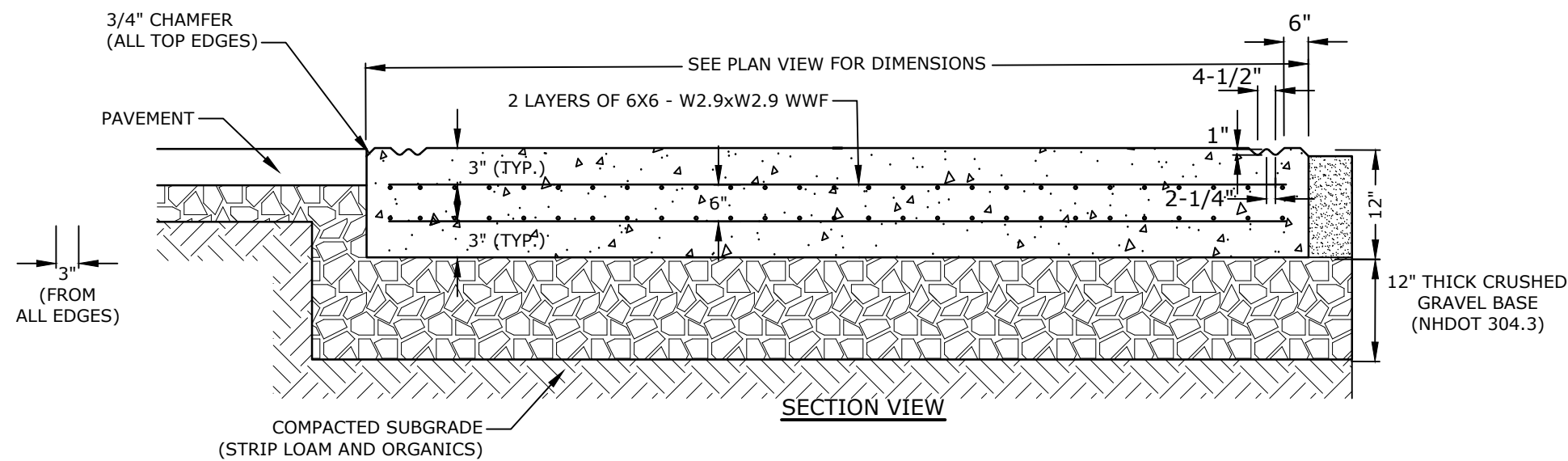


"ELIMINATOR" OIL FLOATING DEBRIS TRAP
NO SCALE

- NOTES:
1. ALL CATCH BASIN OUTLETS TO HAVE "ELIMINATOR" OIL AND FLOATING DEBRIS TRAP MANUFACTURED BY KLEANSTREAM (NO EQUAL)
 2. INSTALL DEBRIS TRAP TIGHT TO INSIDE OF STRUCTURE.
 3. 1/4" HOLE SHALL BE DRILLED IN TOP OF DEBRIS TRAP

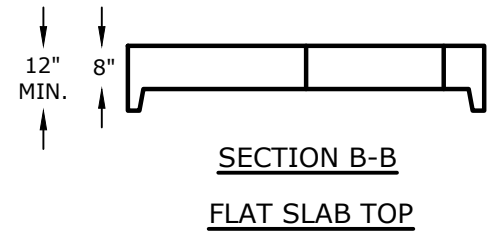


CONTROL JOINT A

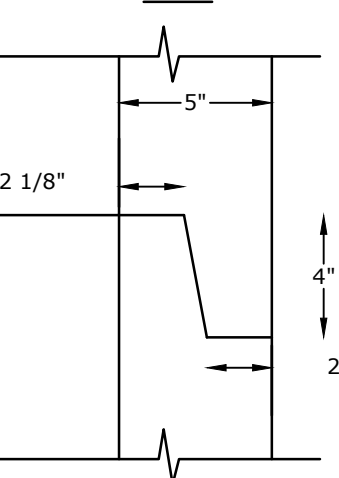
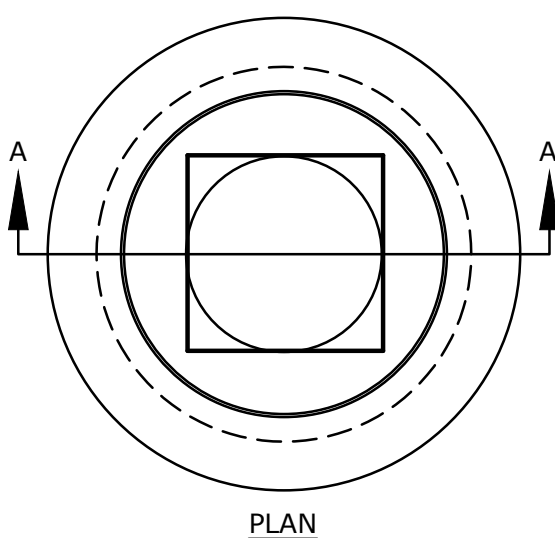


- NOTES:
1. CONCRETE TO BE 4500 PSI, 7% AIR ENTRAINED
 2. STANDARD BROOM FINISH.

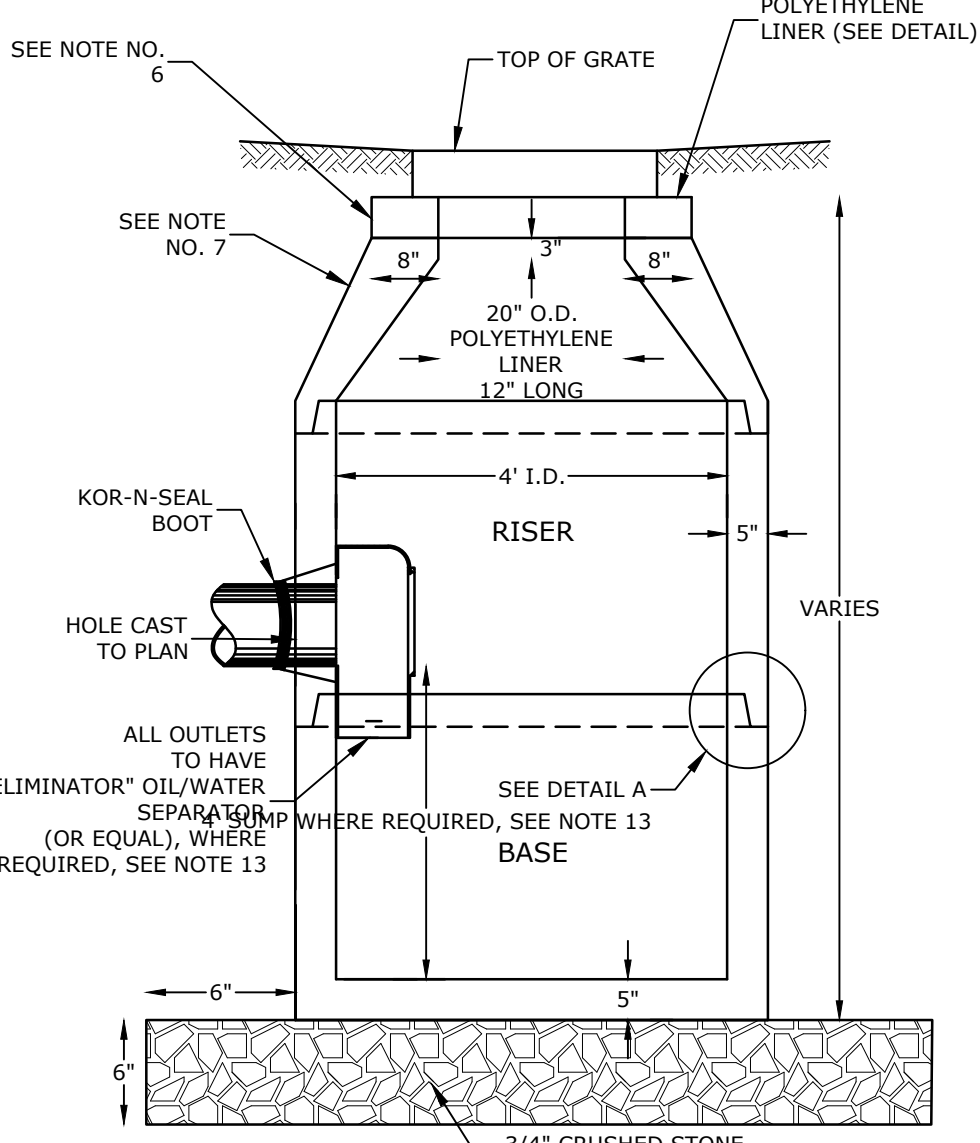
DUMPSTER PAD
NO SCALE



SECTION B-B
FLAT SLAB TOP



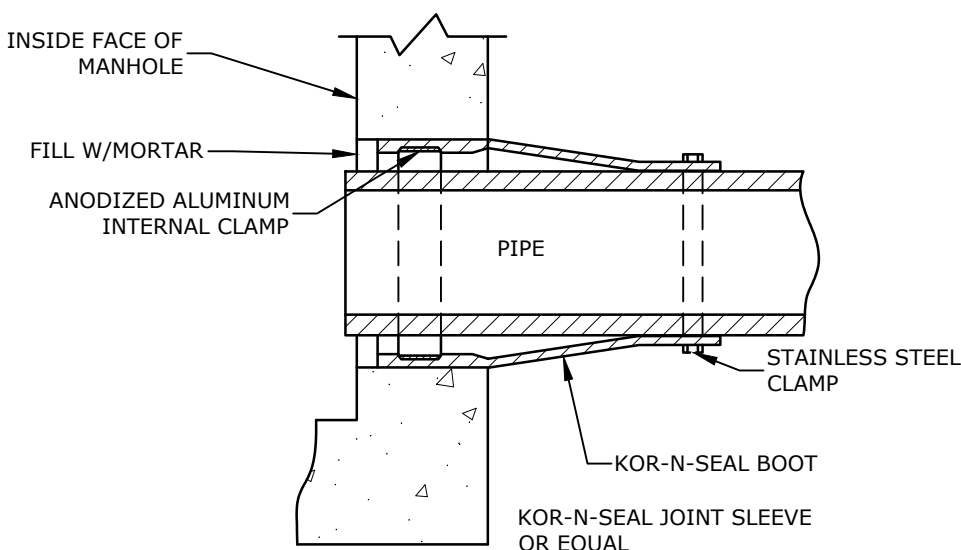
DETAIL A
(TONGUE AND GROOVE JOINT)



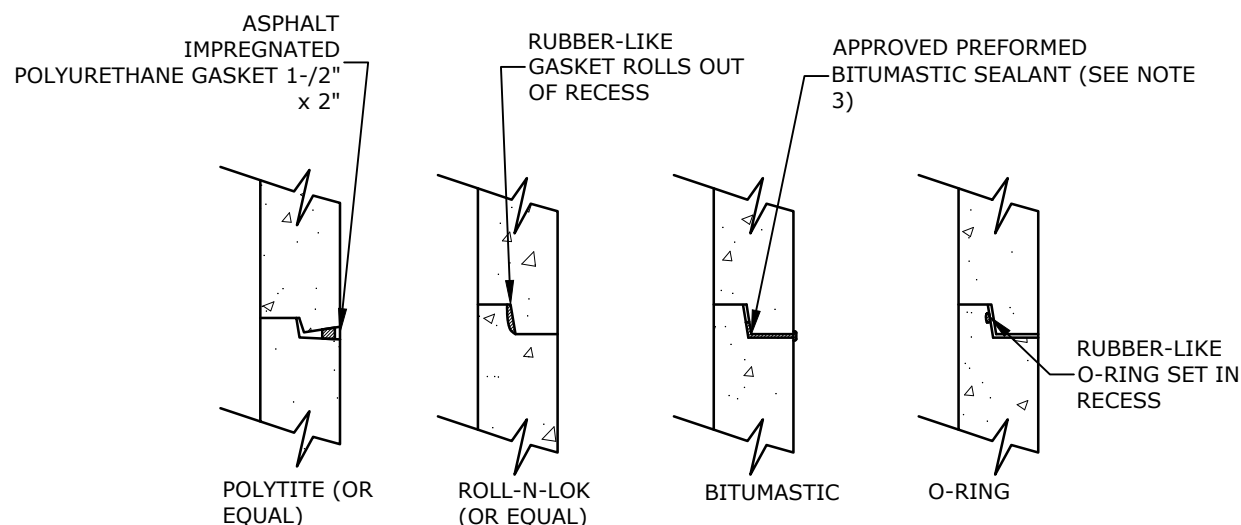
SECTION A-A

- NOTES:
1. ALL SECTIONS SHALL BE CONCRETE CLASS AA(4000 psi).
 2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN. PER LINEAR FT. IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.
 3. THE TONGUE AND GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER LINEAR FT.
 4. RISERS OF 1', 2', 3' & 4' CAN BE USED TO REACH DESIRED DEPTH.
 5. THE STRUCTURES SHALL BE DESIGNED FOR H20 LOADING.
 6. FITTING FRAME TO GRADE MAY BE DONE WITH PREFABRICATED ADJUSTMENT RINGS OR CLAY BRICKS (2 COURSES MAX.).
 7. CONE SECTIONS MAY BE EITHER CONCENTRIC OR ECCENTRIC. OR FLAT SLAB TOPS MAY BE USED WHERE PIPE WOULD OTHERWISE ENTER INTO THE CONE SECTION OF THE STRUCTURE AND WHERE PERMITTED.
 8. PIPE ELEVATIONS SHOWN ON PLANS SHALL BE FIELD VERIFIED PRIOR TO PRECASTING.
 9. OUTSIDE EDGES OF PIPES SHALL PROJECT NO MORE THAN 3" BEYOND INSIDE WALL OF STRUCTURE.
 10. PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT 4" HIGH AT AN 11° ANGLE CENTERED IN THE WIDTH OF THE WALL AND SHALL BE ASSEMBLED USING AN APPROVED FLEXIBLE SEALANT IN JOINTS.
 11. THE TONGUE AND GROOVE JOINT SHALL BE SEALED WITH ONE STRIP OF BUTYL RUBBER SEALANT.
 12. "ELIMINATOR" OIL/WATER SEPARATOR SHALL BE INSTALLED TIGHT TO INSIDE OF CATCHBASIN.
 13. TYPICAL CATCH BASINS SHALL NOT HAVE SUMPS OR HOODS UNLESS OTHERWISE SHOWN ON THE PLANS.

4' DIAMETER CATCHBASIN
NO SCALE



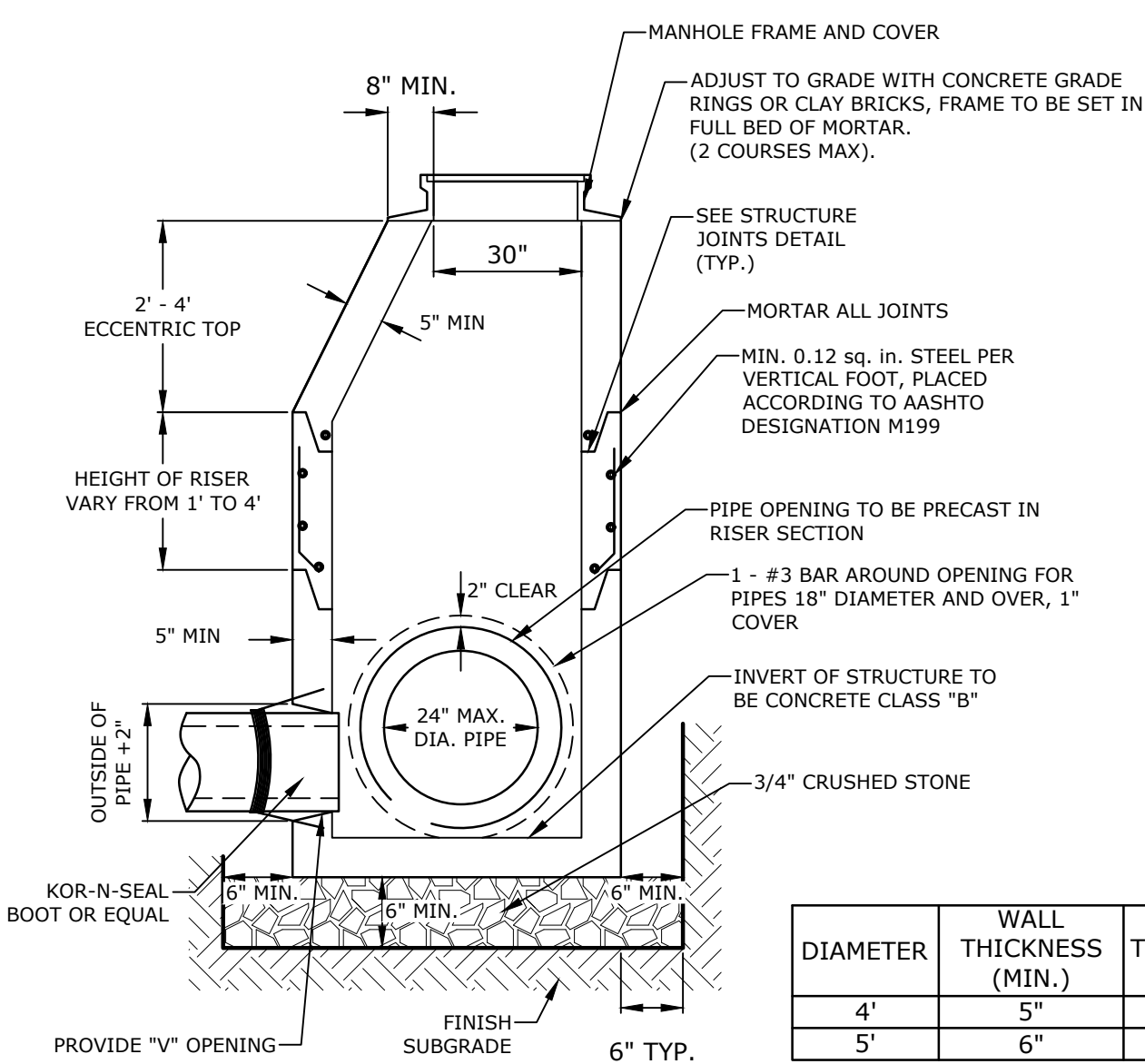
PIPE TO MANHOLE JOINTS



HORIZONTAL JOINTS

- NOTES:
1. HORIZONTAL JOINTS BETWEEN THE SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE PER CITY OF ROCHESTER COMMUNITY DEVELOPMENT DEPARTMENT STANDARDS AND SHALL BE SEALED FOR WATERTIGHTNESS USING A DOUBLE ROW ELASTOMERIC OR MASTIC-LIKE GASKET.
 2. PIPE TO MANHOLE JOINTS SHALL BE PER CITY OF ROCHESTER STANDARDS.
 3. FOR BITUMASTIC TYPE JOINTS THE AMOUNT OF SEALANT SHALL BE SUFFICIENT TO FILL AT LEAST 75% OF THE JOINT CAVITY.
 4. ALL GASKETS, SEALANTS, MORTAR, ETC. SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN INSTRUCTIONS.

MANHOLE JOINTS
NO SCALE

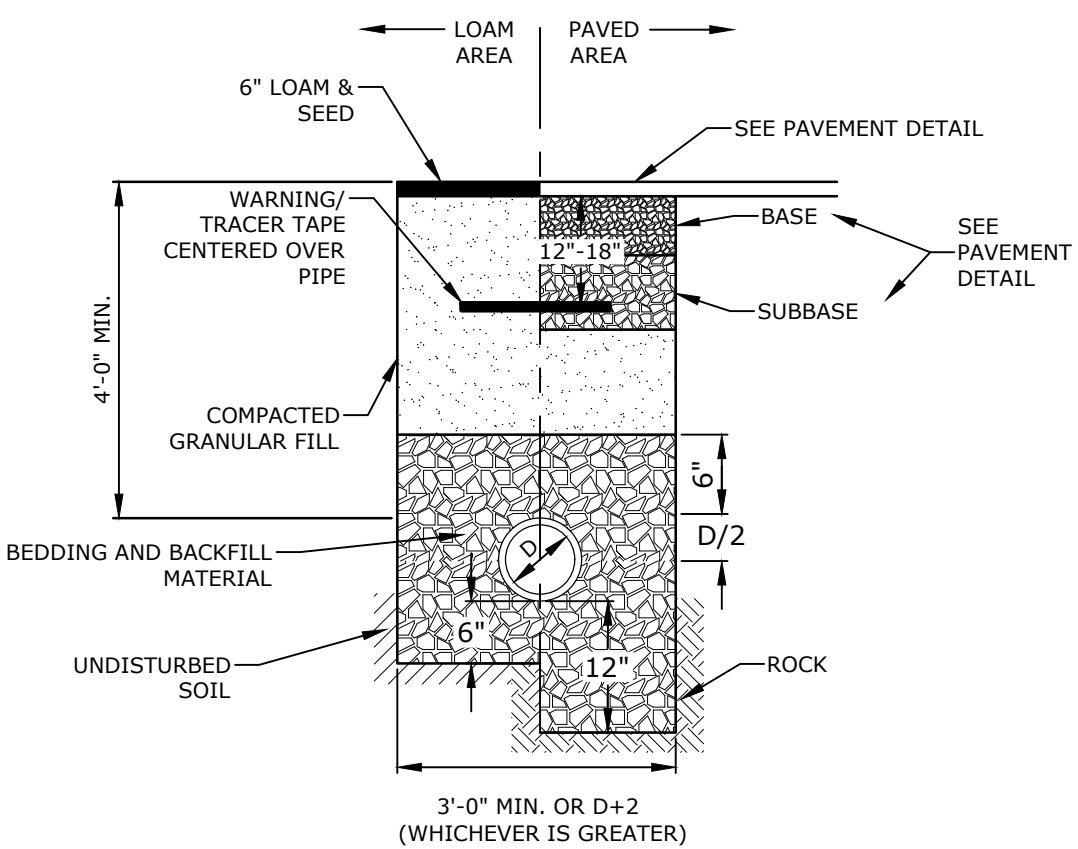


4' DIAMETER DRAIN MANHOLE
NO SCALE

- NOTES:
1. ALL SECTIONS SHALL BE 4,000 PSI CONCRETE.
 2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQUARE INCHES PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.
 3. THE TONGUE AND THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQUARE INCHES PER LINEAR FOOT.
 4. THE STRUCTURES SHALL BE DESIGNED FOR H20 LOADING.
 5. CONSTRUCT CRUSHED STONE BEDDING AND BACKFILL UNDER (6" MINIMUM THICKNESS)
 6. THE TONGUE AND GROOVE JOINT SHALL BE SEALED WITH ONE STRIP OF BUTYL RUBBER SEALANT.
 7. PIPE ELEVATIONS SHOWN ON PLANS SHALL BE FIELD VERIFIED PRIOR TO PRECASTING.
 8. OUTSIDE EDGES OF PIPES SHALL PROJECT NO MORE THAN 3" BEYOND INSIDE WALL OF STRUCTURE.
 9. PRECAST SECTIONS SHALL HAVE A TONGUE AND GROOVE JOINT 4" HIGH AT AN 11° ANGLE CENTERED IN THE WIDTH OF THE WALL AND SHALL BE ASSEMBLED USING AN APPROVED FLEXIBLE SEALANT IN JOINTS.
 10. ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 12" OF INSIDE SURFACE BETWEEN HOLES, NO MORE THAN 75% OF A HORIZONTAL CROSS SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN 3" TO JOINTS.

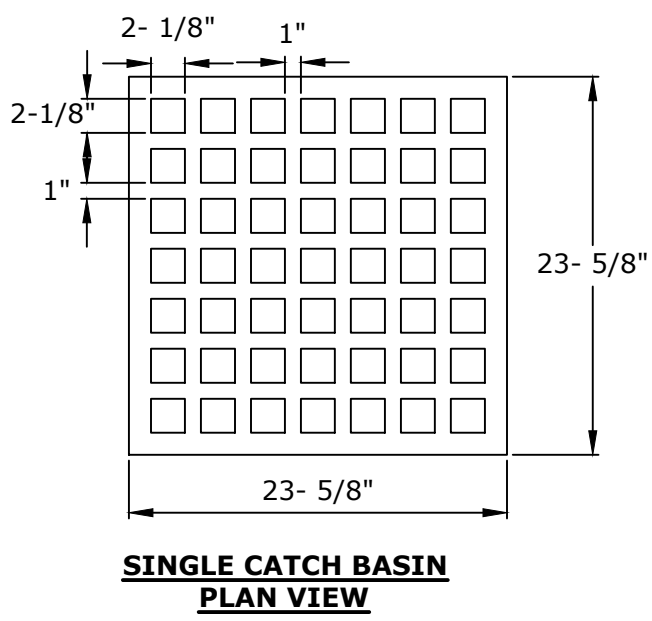
DIAMETER	WALL THICKNESS (MIN.)	FLOOR THICKNESS (MIN.)
4'	5"	6"
5'	6"	8"

CORE HOLE SIZE					
PIPE SIZE			PLASTIC CORE HOLE DIA.		
INCHES	INCHES	FEET	INCHES	FEET	
6	12	1.5	7	18	1.5
12	15	2.2	18	20	1.7
18	18	2.2	24	2.0	
24	34	2.8	32	2.7	
30	42	3.5	42	3.5	

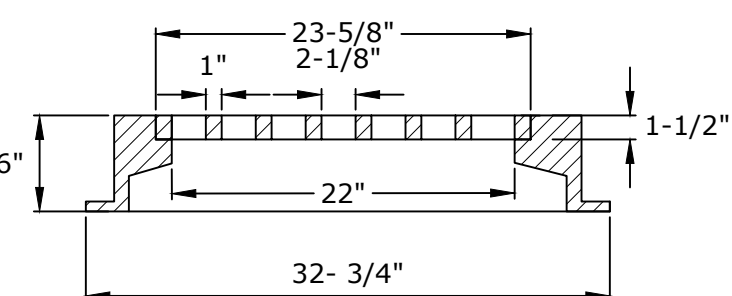


STORM DRAIN TRENCH
NO SCALE

- NOTES:
1. CRUSHED STONE BEDDING AND BACKFILL FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW PIPE IN EARTH AND 12" BELOW PIPE IN ROCK UP TO 6" ABOVE TOP OF PIPE.
 2. ALL UTILITIES SHALL BE INSTALLED PER THE INDIVIDUAL UTILITY COMPANY STANDARDS. COORDINATE ALL INSTALLATIONS WITH INDIVIDUAL UTILITY COMPANIES AND THE CITY OF ROCHESTER.
 3. DRAIN LINE SHALL BE INSULATED WHERE THERE IS LESS THAN 6" OF COVER IN PAVED AREAS AND LESS THAN 4" OF COVER IN NON-PAVED AREAS.



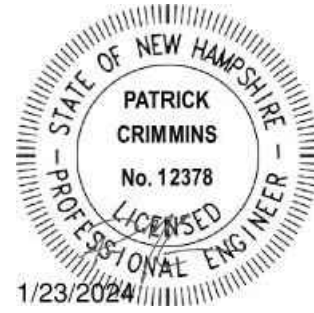
SINGLE CATCH BASIN
PLAN VIEW



SINGLE CATCH BASIN SECTION VIEW

- NOTES:
1. ALL DIMENSIONS ARE NOMINAL.
 2. FRAMES AND GRATES SHALL BE HEAVY DUTY AND H-20 LOAD RATED
 3. USE 3-FLANGE FRAME IF INSTALLED ADJACENT TO GRANITE CURB.
 4. FRAME MATERIAL SHALL BE CLASS 40A GRAY IRON ASTM 48. GRATE MATERIAL SHALL BE CLASS 35B GRAY IRON ASTM 48.

CATCH BASIN FRAME AND GRATE
NO SCALE



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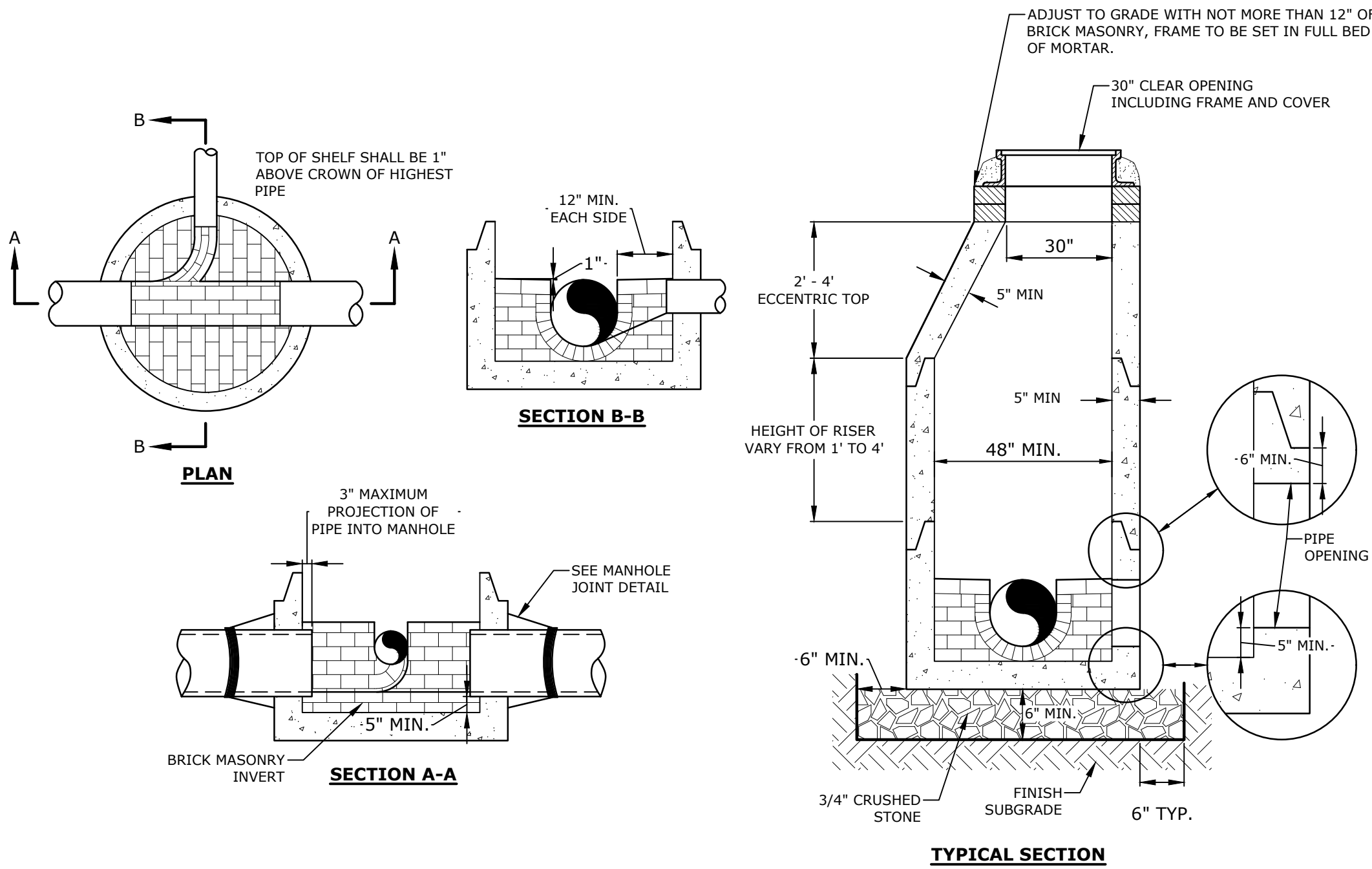
Rochester School
District

C	1/23/2024	REV TRG SUBMISSION
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DETAILS

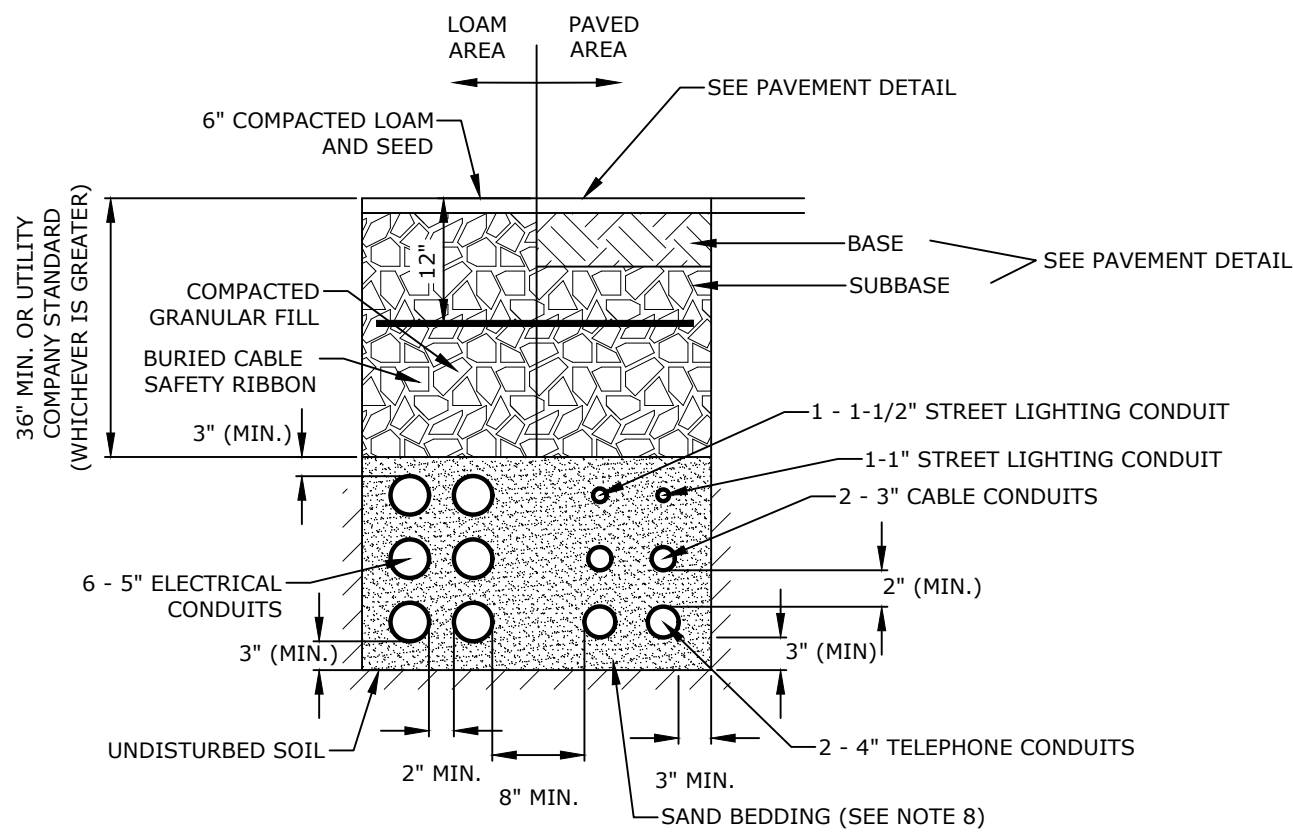
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C-503



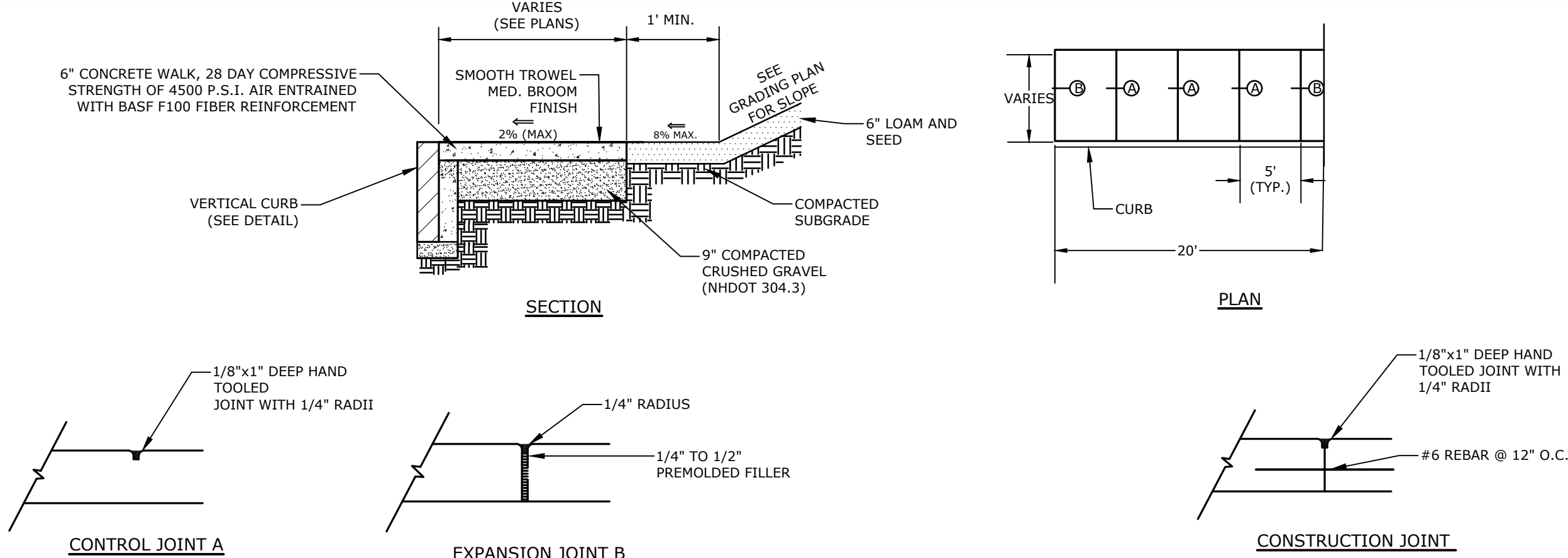
- NOTES:
1. INVERT AND SHELF TO BE PLACED AFTER EACH LEAKAGE TEST.
 2. CARE SHALL BE TAKEN TO INSURE THAT THE BRICK INVERT IS A SMOOTH CONTINUATION OF THE SEWER INVERT.
 3. INVERT BRICKS SHALL BE LAID ON EDGE.
 4. TWO (2) COATS OF BITUMINOUS WATERPROOF COATING SHALL BE APPLIED TO ENTIRE EXTERIOR OF MANHOLE.
 5. FRAMES AND COVERS: MANHOLE FRAMES AND COVERS WITHIN CITY RIGHT OF WAY SHALL BE CITY STANDARD HINGE COVERS MANUFACTURED BY E1. FRAMES AND COVERS WILL BE PURCHASED FROM THE CITY OF ROCHESTER DEPARTMENT OF PUBLIC WORKS. ALL OTHER MANHOLE FRAMES AND COVERS SHALL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30-INCH CLEAR OPENING. A 3-INCH (MINIMUM HEIGHT) WORD "SEWER" SHALL BE PLAINLY CAST INTO THE CENTER OF EACH COVER.
 6. HORIZONTAL JOINTS SHALL BE SEALED FOR WATER TIGHTNESS USING A DOUBLE ROW OF ELASTOMERIC OR MASTIC-LIKE SEALANT.
 7. BARREL AND CONE SECTIONS SHALL BE PRECAST REINFORCED CONCRETE DESIGNED FOR H20 LOADING, AND CONFORMING TO ASTM C478-06.

SEWER MANHOLE
NO SCALE



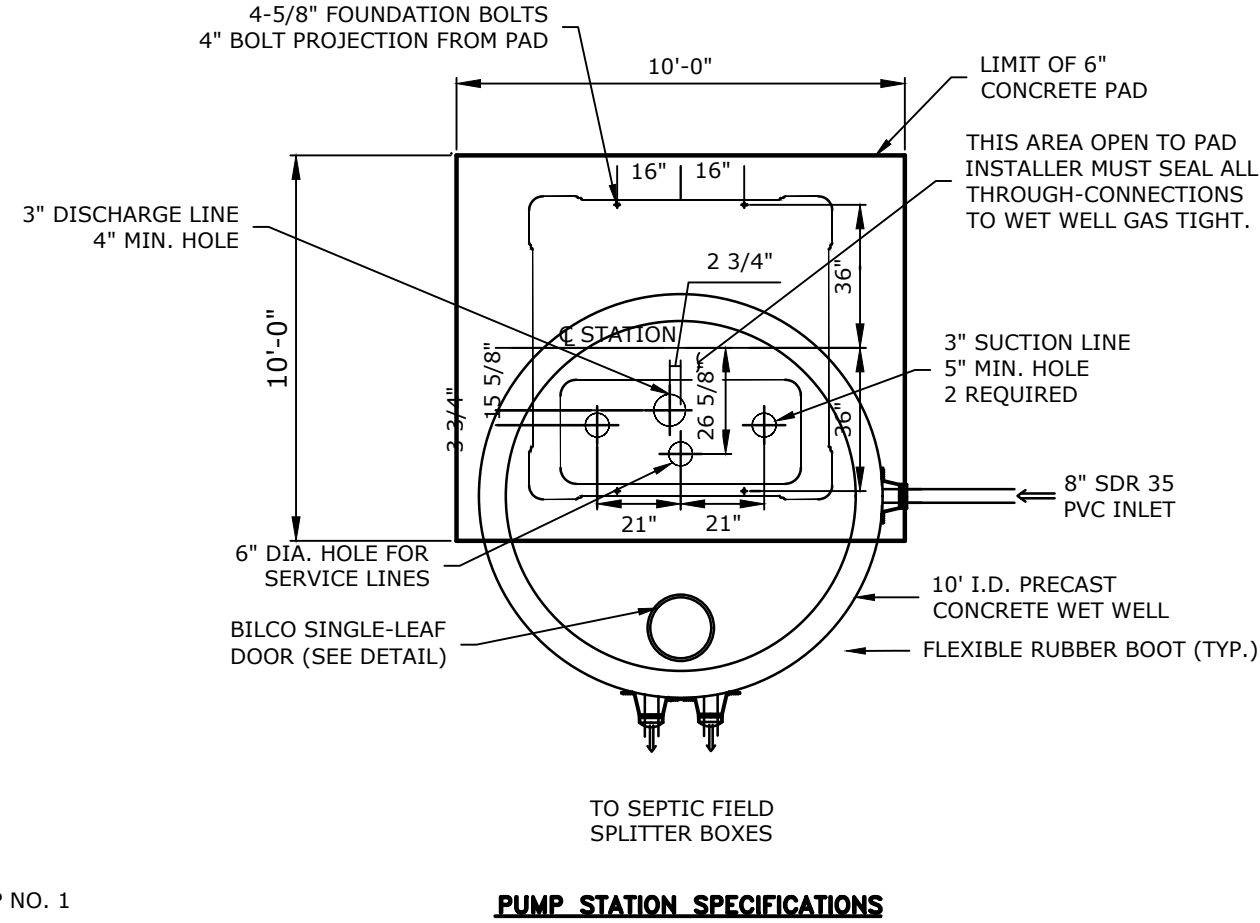
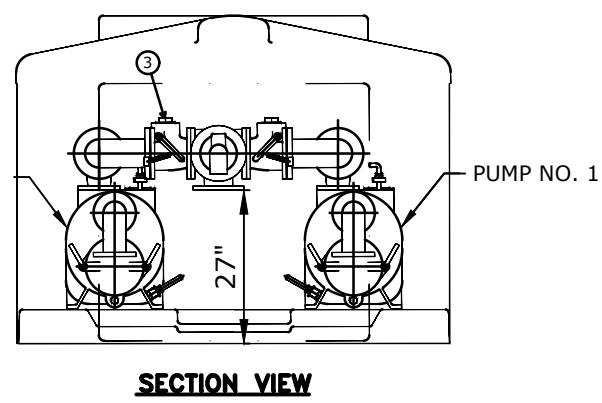
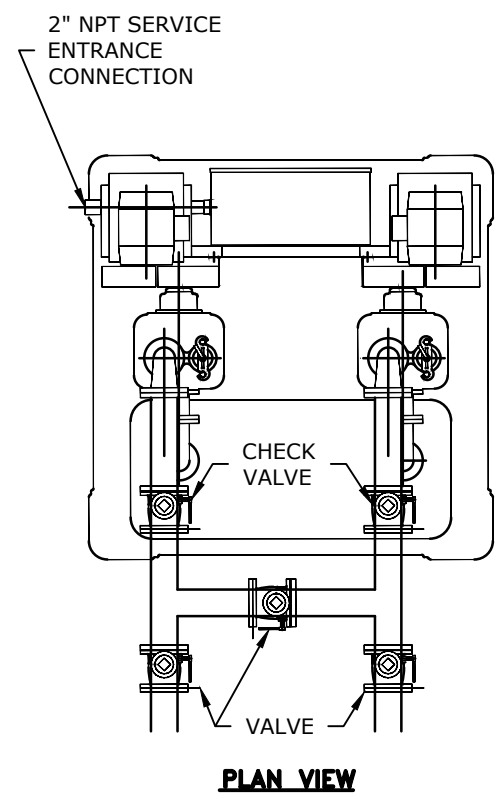
- NOTE:
1. NUMBER, MATERIAL, AND SIZE OF UTILITY CONDUITS TO BE DETERMINED BY LOCAL UTILITY OR AS SHOWN ON ELECTRICAL DRAWINGS. CONTRACTOR TO PROVIDE ONE SPARE CONDUIT FOR EACH UTILITY TO BUILDING.
 2. DIMENSIONS SHOWN REPRESENT OWNERS MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS MAY BE GREATER BASED ON UTILITY COMPANY STANDARDS, BUT SHALL NOT BE LESS THAN THOSE SHOWN.
 3. NO CONDUIT RUN SHALL EXCEED 360 DEGREES IN TOTAL BENDS.
 4. A SUITABLE PULLING STRING, CAPABLE OF 200 POUNDS OF PULL, MUST BE INSTALLED IN THE CONDUIT BEFORE UTILITY COMPANY IS NOTIFIED TO INSTALL CABLE. THE STRING SHOULD BE BLOWN INTO THE CONDUIT AFTER THE RUN IS ASSEMBLED TO AVOID BONDING THE STRING TO THE CONDUIT.
 5. UTILITY COMPANY MUST BE GIVEN THE OPPORTUNITY TO INSPECT THE CONDUIT PRIOR TO BACKFILL. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS SHOULD THE UTILITY COMPANY BE UNABLE TO INSTALL ITS CABLE IN A SUITABLE MANNER.
 6. ALL CONDUIT INSTALLATIONS MUST CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRIC SAFETY CODE, STATE AND LOCAL CODES AND ORDINANCES, AND, WHERE APPLICABLE, THE NATIONAL ELECTRIC CODE.
 7. ALL 90° SWEEPS WILL BE MADE USING RIGID GALVANIZED STEEL SWEEPS WITH A 36 TO 48 INCH RADIUS.
 8. SAND BEDDING TO BE REPLACED WITH CONCRETE ENCASEMENT WHERE COVER IS LESS THAN 3 FEET, WHEN LOCATED BELOW PAVEMENT, OR WHERE SHOWN ON THE UTILITIES PLAN.

TYPICAL ELECTRIC AND COMMUNICATION CONDUIT
NO SCALE



NOTES:

1. SIDEWALK SHALL BE CONSTRUCTED TO CITY OF ROCHESTER STANDARDS



PUMP STATION

FURNISH AND INSTALL PUMP STATION AS SHOWN ON THE PLANS. STATION SHALL INCLUDE BUT NOT BE LIMITED TO A CONCRETE WET WELL, ACCESS FRAME, ACCESS COVER, LEVEL CONTROLS, A GORMAN RUPP T3CSC-B-4 SUCTION LIFT PUMP STATION (OR APPROVED EQUAL), WET WELL PIPING, A CONCRETE PAD DESIGNED TO ACCOMMODATE AN H-20 WHEEL LOAD, AND A STATION ENCLOSURE.

EACH PUMP SHALL HAVE A CAPACITY OF 75 GPM AGAINST A TDH OF 35 FEET, INCLUDING STATIC, VELOCITY, AND FRICTION HEAD.

WET WELL

PUMP CHAMBER SHALL BE A 10-FOOT DIAMETER PRECAST CONCRETE TANK. ACCESS COVER SHALL BE A 24-INCH SQUARE BILCO SINGLE-LEAF DOOR. WET WELL AND COVER SHALL BE DESIGNED TO ACCOMMODATE AN H-20 WHEEL LOADING. WET WELL SHALL BE SEALED AND GROUTED.

PIPING

THE DISCHARGE PIPE SHALL BE THREE (3) INCHES IN DIAMETER SDR 26 OR EQUIVALENT. ALL FITTINGS SHALL BE CEMENTED OR THREADED. PUMP STATION INTERIOR DUCTILE IRON PIPING SHALL CONTINUE 6 FEET BEYOND THE LIMITS OF THE STATION. SUCTION AND DISCHARGE CONNECTIONS SHALL BE #125 FLANGE.

LEVEL CONTROL

THE LEVEL CONTROL SHALL BE THE AIR BUBBLER TYPE, CONTAINING AIR BUBBLER PIPING WHICH EXTENDS INTO THE WET WELL. MECHANICAL PRESSURE SWITCHES SHALL SENSE THE AIR PRESSURE IN THE PIPING TO CONTROL PUMP ON, PUMP OFF, ALARM, AND TO PROVIDE A DOSAGE RATE OF 880.8 GALLONS. PUMP RUN TIME = 11.7 MIN/DOSE.

DUPLEX CONTROL PANEL

DUPLEX CONTROL TO PERFORM BOTH DUPLEXING AND ALTERNATION. CONTROLS SHALL CONSIST OF TWO CIRCUIT BREAKERS WITH THROUGH-DOOR OPERATING HANDLE, TWO MAGNETIC STARTERS WITH AMBIENT COMPENSATED QUICK-TRIP OVERLOADS IN EACH LINE, RUNNING LIGHTS, LIGHTENING ARRESTOR, MOISTURE SENSOR ALARM, TEMPERATURE ALARM, ALTERNATOR, DOOR-MOUNTED RESETS, HOUR METERS, AND DOOR-MOUNTED MANUAL-OFF-AUTOMATIC SELECTOR SWITCHES FOR EACH PUMP. ENCLOSURE TO INCLUDE CONTINUOUS HINGE, NEOPRENE GASKET IN COVER, AND CONTINUOUS SEAM WELD.

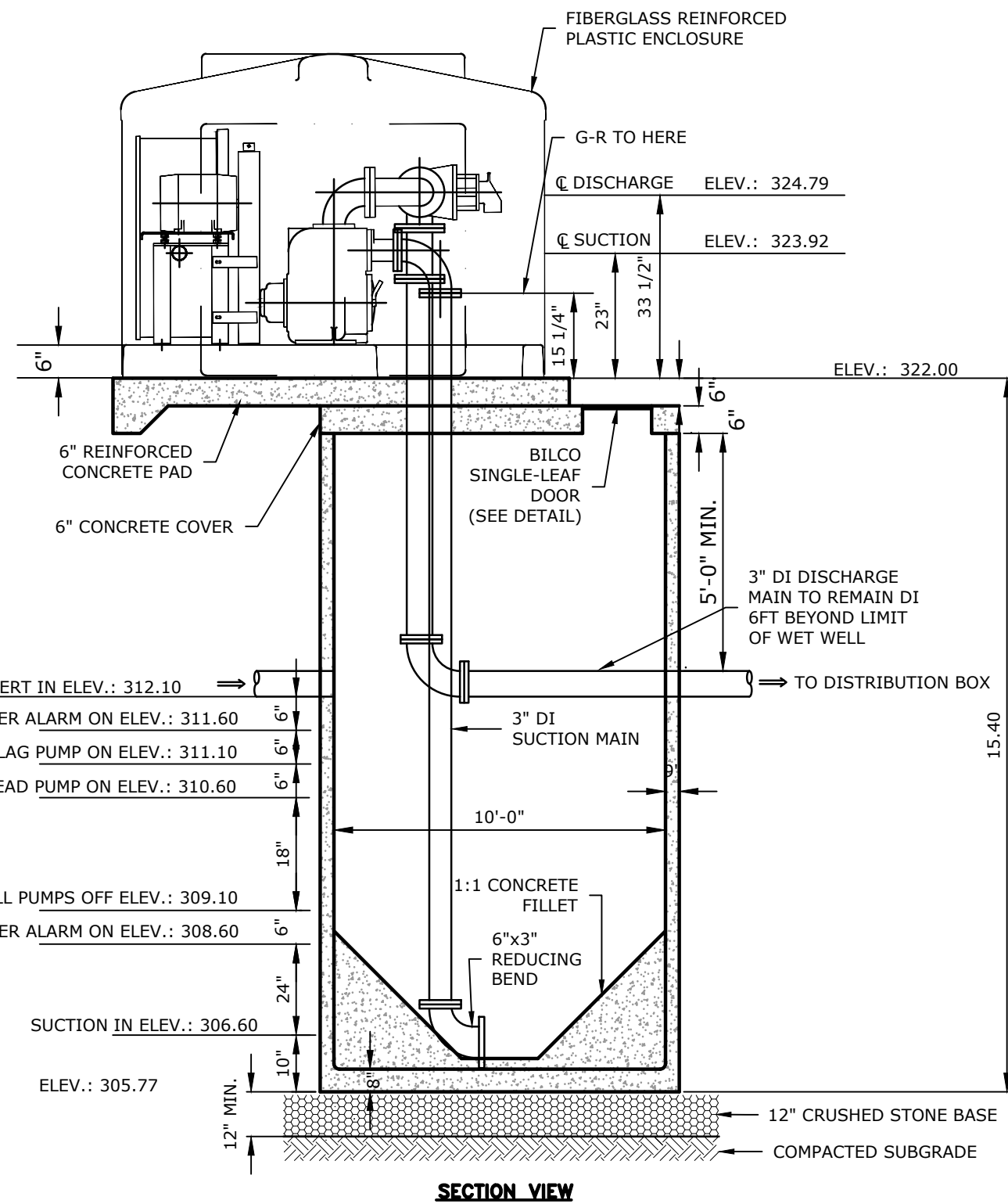
ALARM

ALARM SHALL BE INTERIOR MOUNTED VISUAL ONLY, AMBER IN COLOR. THE ALARM SHALL BE LOCATED NEAR THE MAINTENANCE ROOM IN AN OBVIOUS LOCATION.

AN ELECTRONIC PHONE DIALER SHALL BE PROVIDED WITH THE STATION WHICH SHALL BE PROGRAMMED TO PLAY A PRERECORDED MESSAGE. THE SYSTEM SHALL CONTACT A MAINTENANCE PERSON OR COMPANY AS DESIGNATED BY THE OWNER 24 HOURS PER DAY AND NOTIFY THE CONTACT OF ANY STATION MALFUNCTIONS.

EMERGENCY POWER

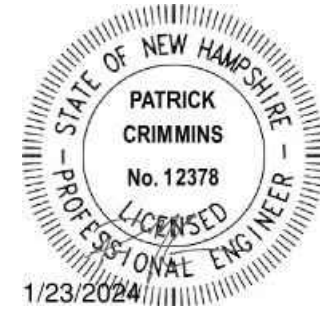
THE PUMP STATION SHALL BE CONNECTED TO AN EMERGENCY POWER GENERATOR.



- NOTES:
1. CONSTRUCT CRUSHED STONE BEDDING UNDER AND AROUND STRUCTURE UP TO SUBGRADE LIMITS (12" MINIMUM THICKNESS).
 2. PUMPING SPECIFICATIONS PROVIDED ARE FOR PRICING COORDINATION ONLY AND NOT FOR CONSTRUCTION.

PUMP STATION
NO SCALE

Tighe&Bond



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Rochester School
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APPROVED BY: PMC		

DETAILS

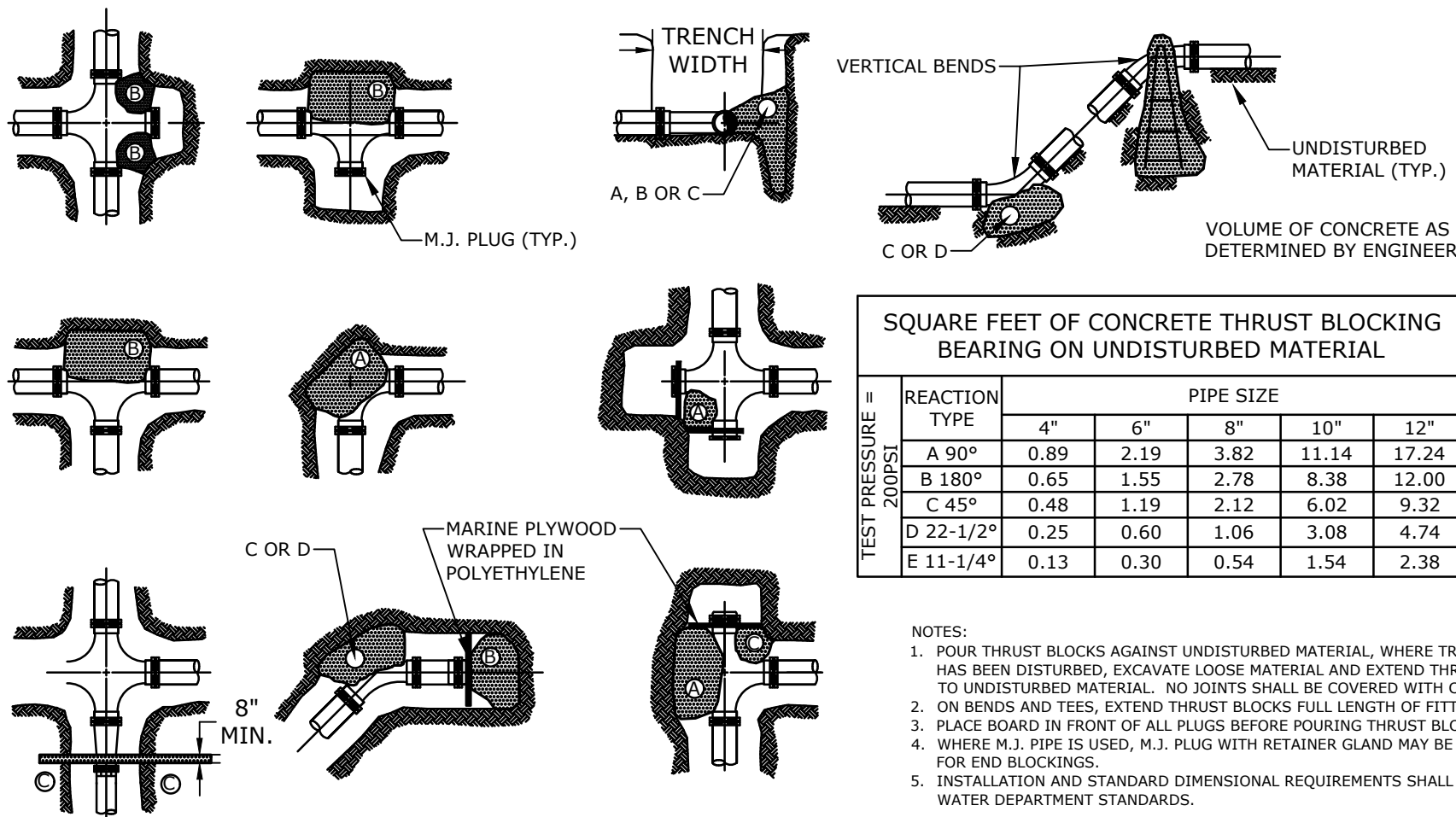
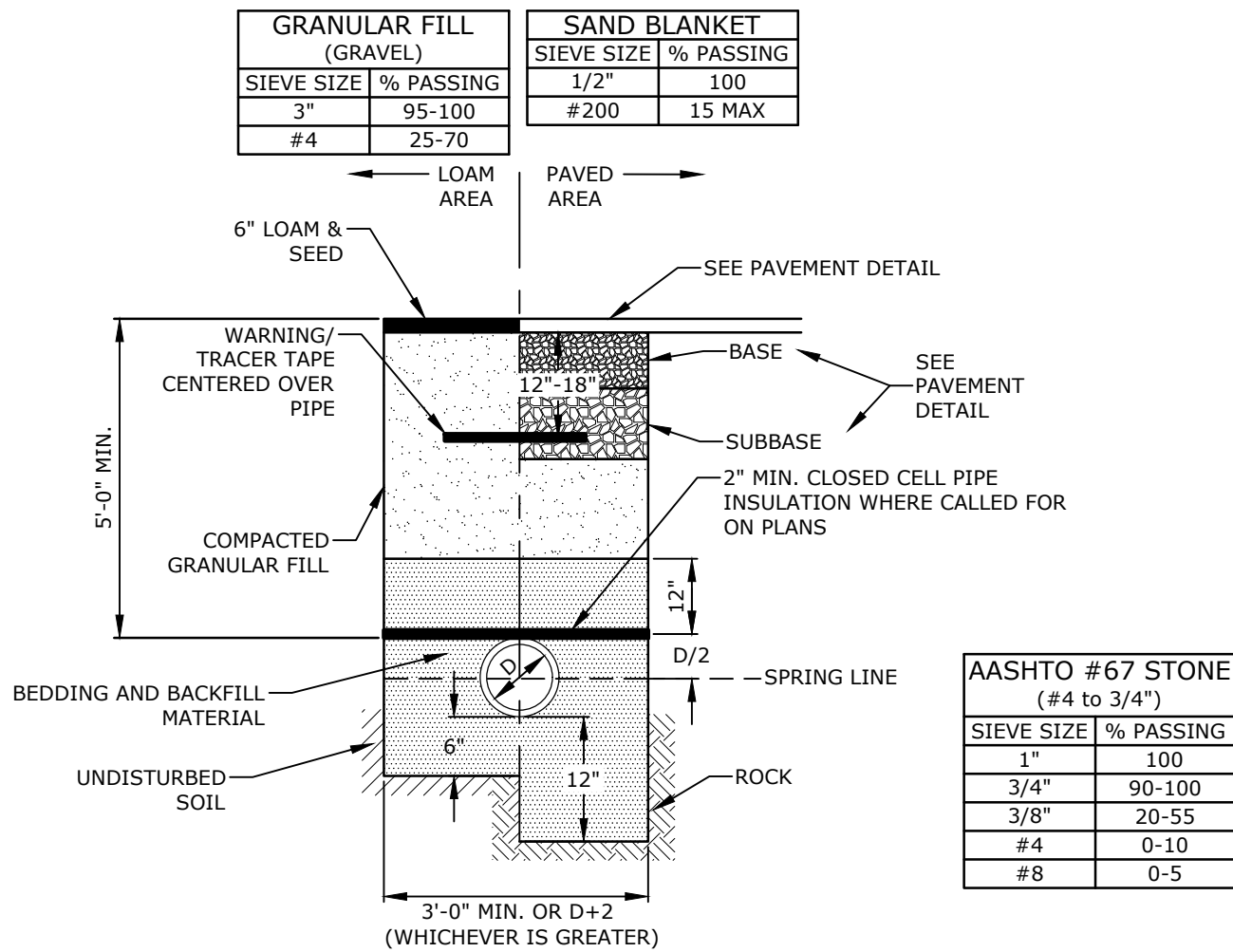
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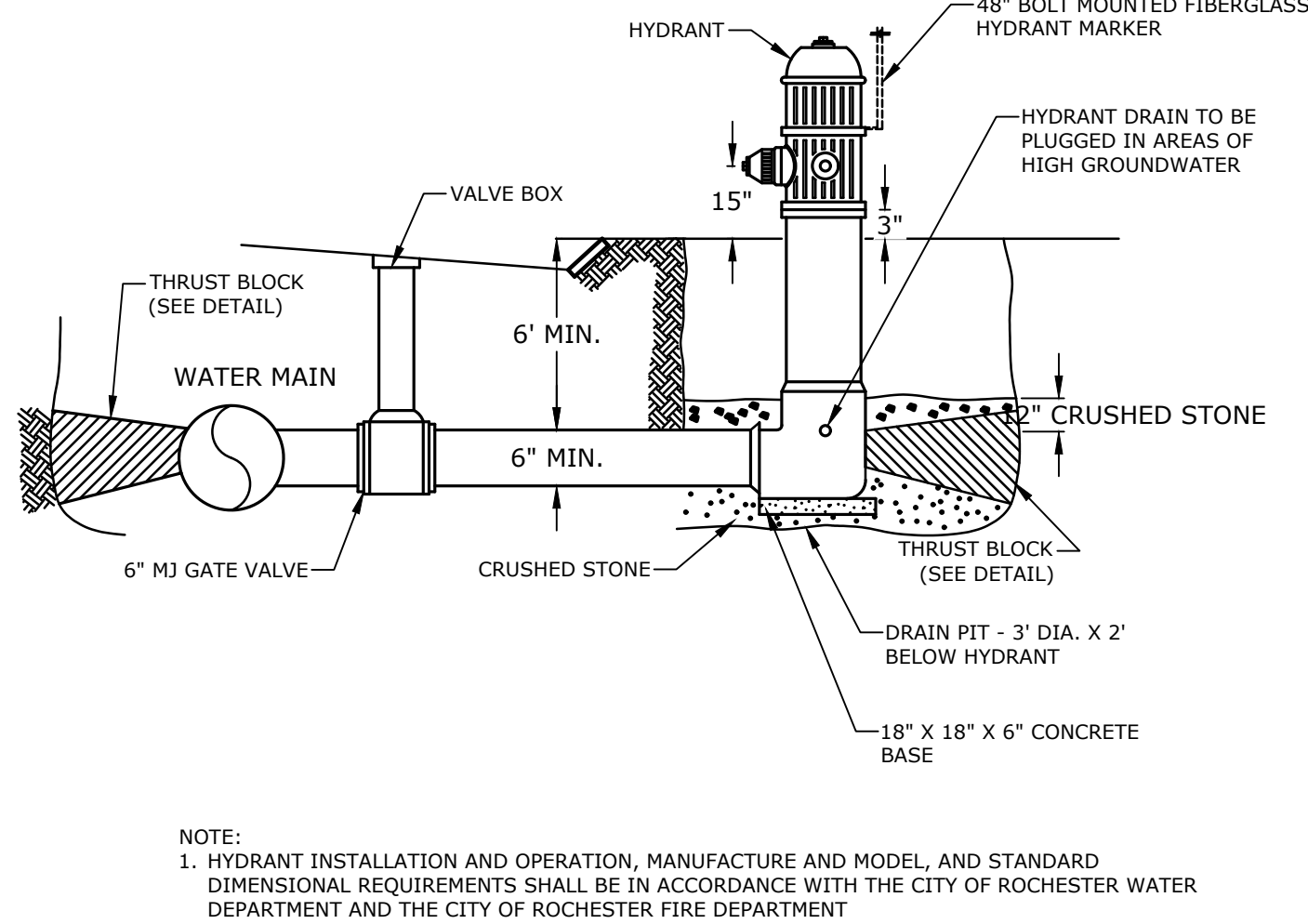
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- NOTE:
- SAND BEDDING AND BACKFILL FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW PIPE IN EARTH AND 12" BELOW PIPE IN ROCK UP TO 12" ABOVE TOP OF PIPE.
 - ALL UTILITIES SHALL BE INSTALLED PER THE INDIVIDUAL UTILITY COMPANY STANDARDS. COORDINATE ALL INSTALLATIONS WITH INDIVIDUAL UTILITY COMPANIES AND THE CITY OF ROCHESTER.

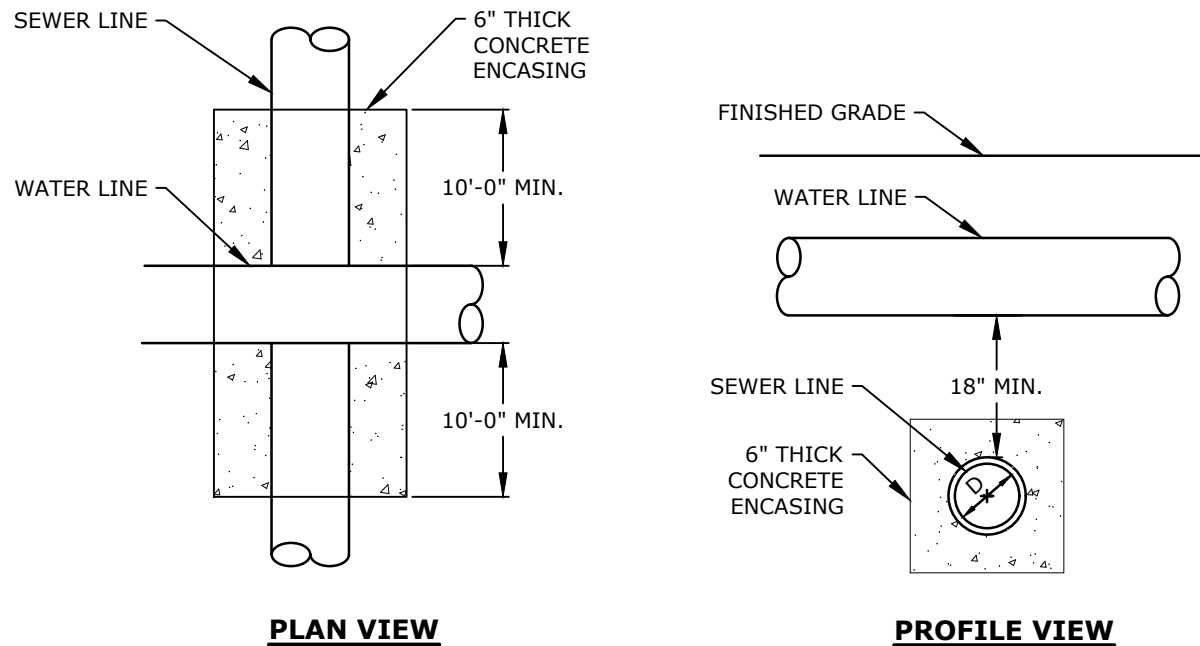
WATER TRENCH
NO SCALE



THRUST BLOCKING DETAIL
NO SCALE

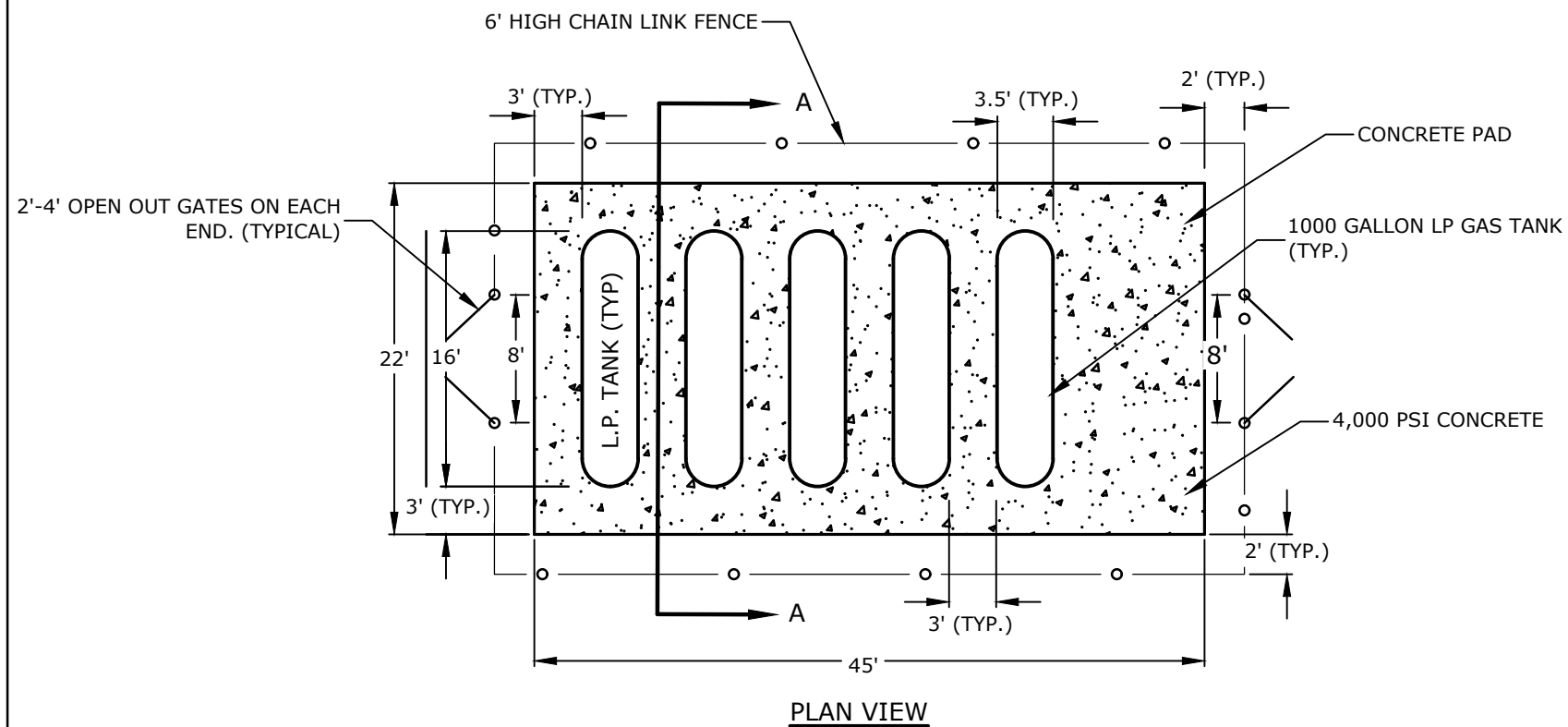


FIRE HYDRANT
NO SCALE



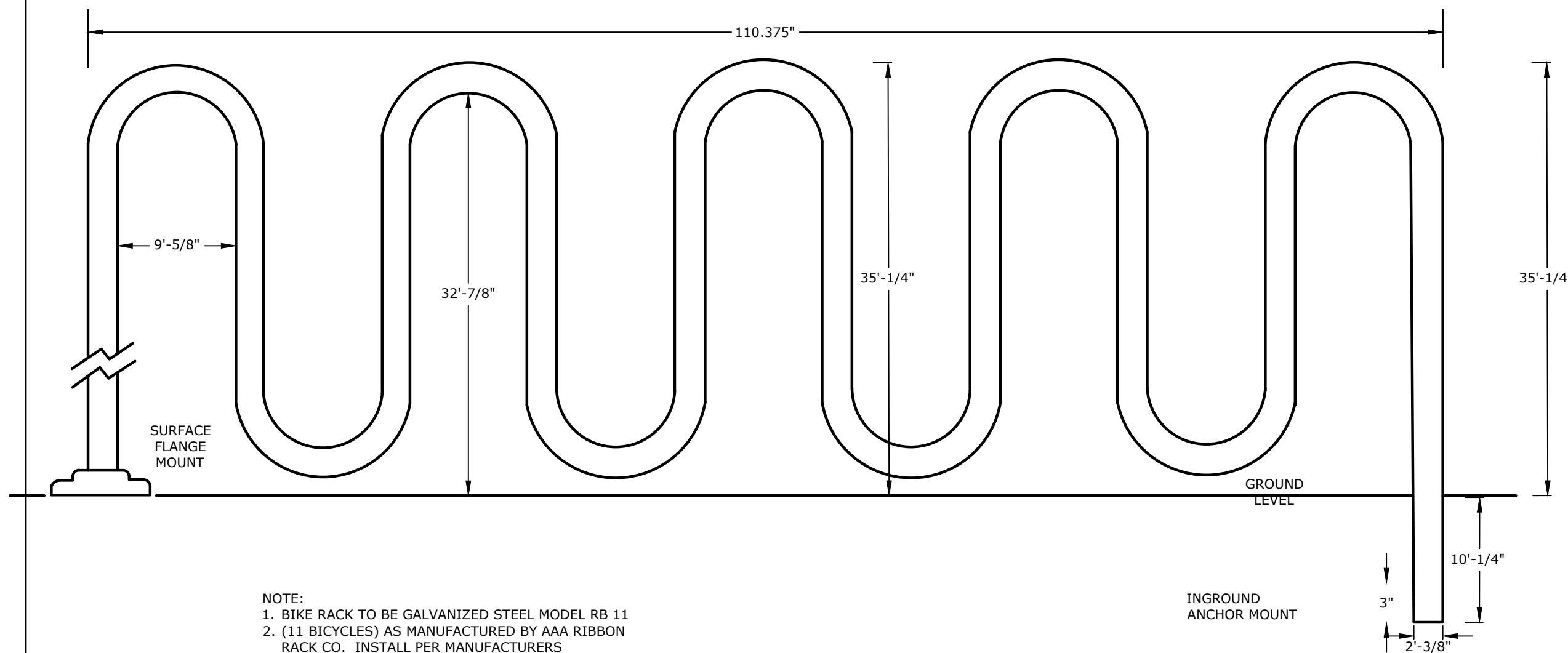
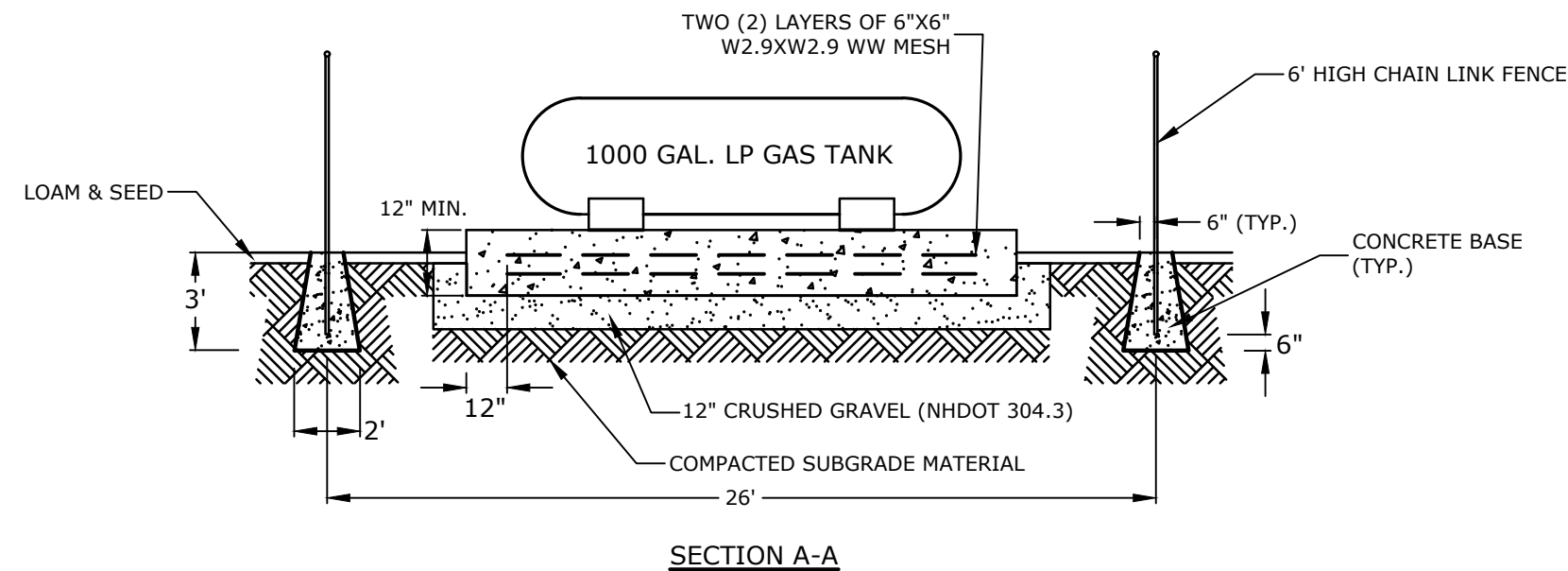
WATER & SEWER CROSSING
NO SCALE

- NOTES:
- A 10 FOOT MINIMUM EDGE TO EDGE HORIZONTAL SEPARATION SHALL BE PROVIDED FROM ANY EXISTING OR PROPOSED WATER LINE.
 - AN 18" MINIMUM EDGE TO EDGE VERTICAL SEPARATION SHALL BE PROVIDED, WITH WATER ABOVE SEWER, AT ALL CROSSINGS.
 - SEWER PIPE JOINTS SHALL BE LOCATED AT LEAST 6 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN.
 - WHERE AN 18" VERTICAL SEPARATION CANNOT BE PROVIDED, SEWER PIPE SHALL BE CONSTRUCTED USING A SDR 26 PVC PIPE OR ENCASED CONCRETE FOR A MINIMUM DISTANCE OF 10 FEET ON BOTH SIDES OF THE LINE BEING CROSSED, AS SHOWN ABOVE.
 - CROSSINGS SHALL CONFORM TO THE CITY OF ROCHESTER STANDARDS AND SPECIFICATIONS.



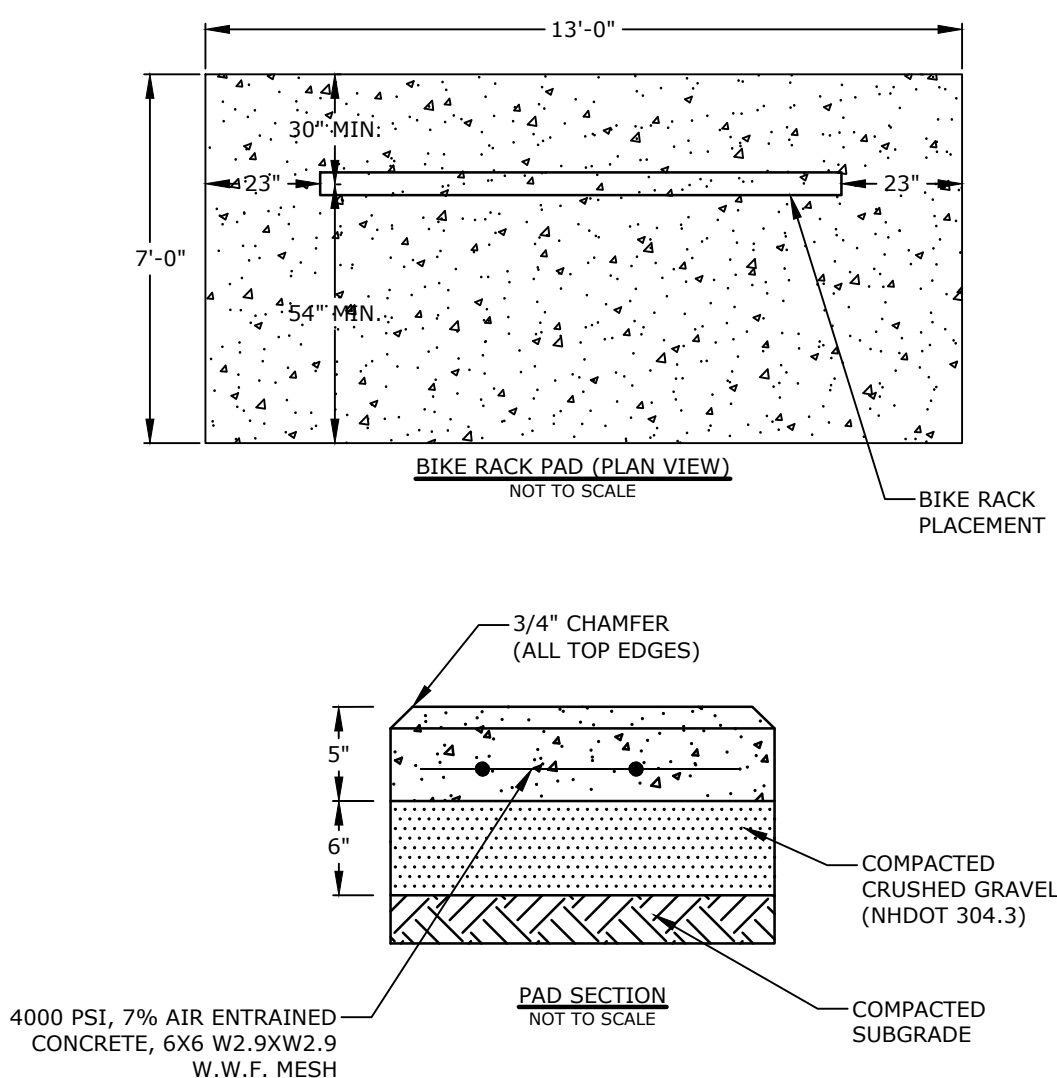
- GENERAL NOTES
- ALL MATERIALS AND CONSTRUCTION PROCEDURES TO BE IN ACCORDANCE WITH THE PROVISIONS OF NFPA58-LP-GAS SYSTEMS.
 - CONCRETE, REINFORCING AND FENCING SHALL BE IN ACCORDANCE WITH THE MATERIAL AND PERFORMANCE SPECIFICATIONS OF THE LATEST EDITION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. CONCRETE SHALL BE 4000 PSI WITH 3 TO 6 PERCENT ENTRAINED AIR. FENCING TO BE 6' HIGH CHAIN LINK.
 - PAD THICKNESS AND DESIGN WILL VARY ACCORDING TO SITE AND SUBSURFACE CONDITIONS. PAD TO BE DESIGNED BY DEVELOPER'S STRUCTURAL ENGINEER.
 - COORDINATE ALL WORK WITH PROPANE SUPPLIER.

PROPANE TANK FARM
NO SCALE

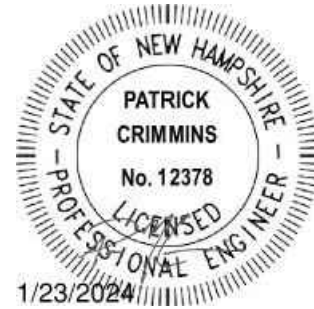


- NOTE:
- BIKE RACK TO BE GALVANIZED STEEL MODEL RB 11
 - (11 BICYCLES) AS MANUFACTURED BY AAA RIBBON RACK CO. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

BIKE RACK AND PAD DETAIL (MODEL RB 11)
NO SCALE



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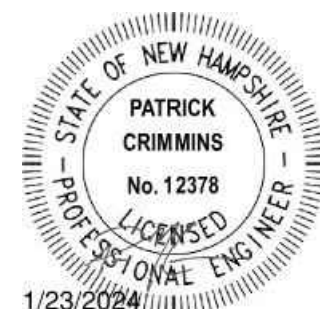
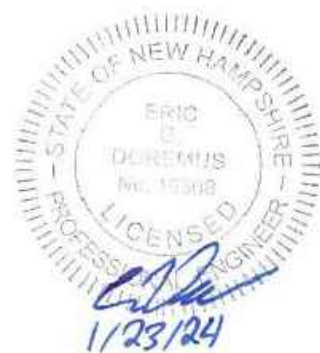
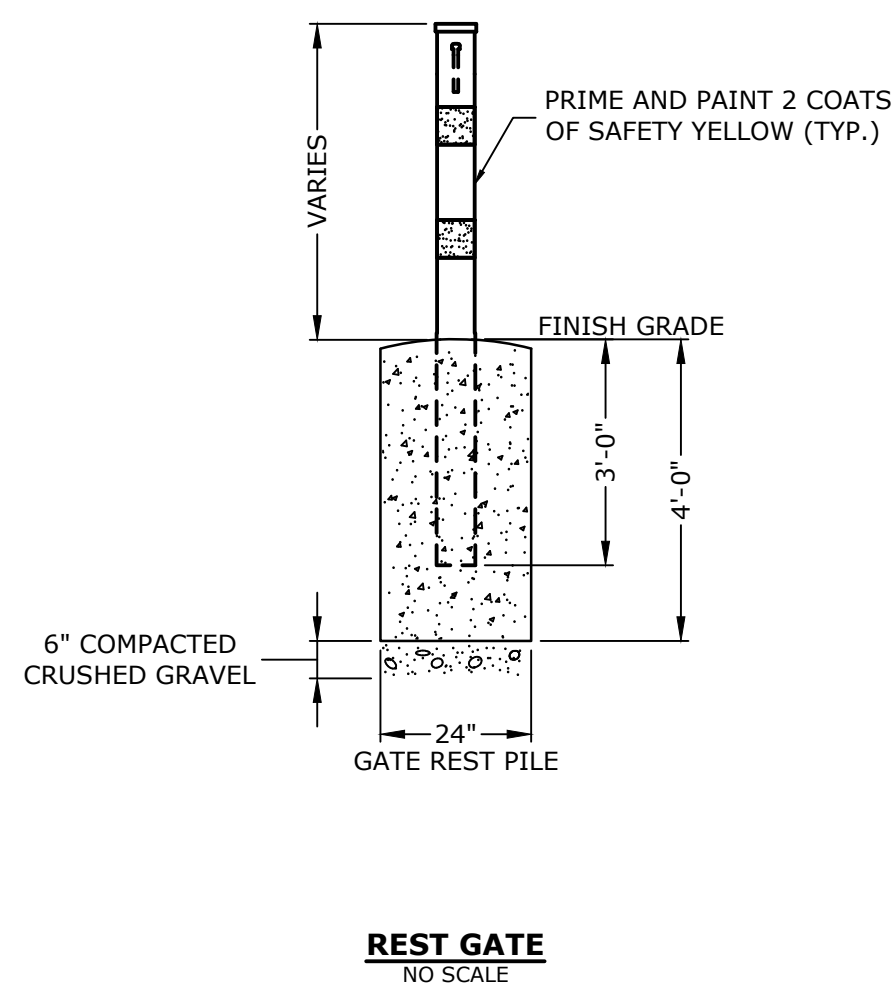
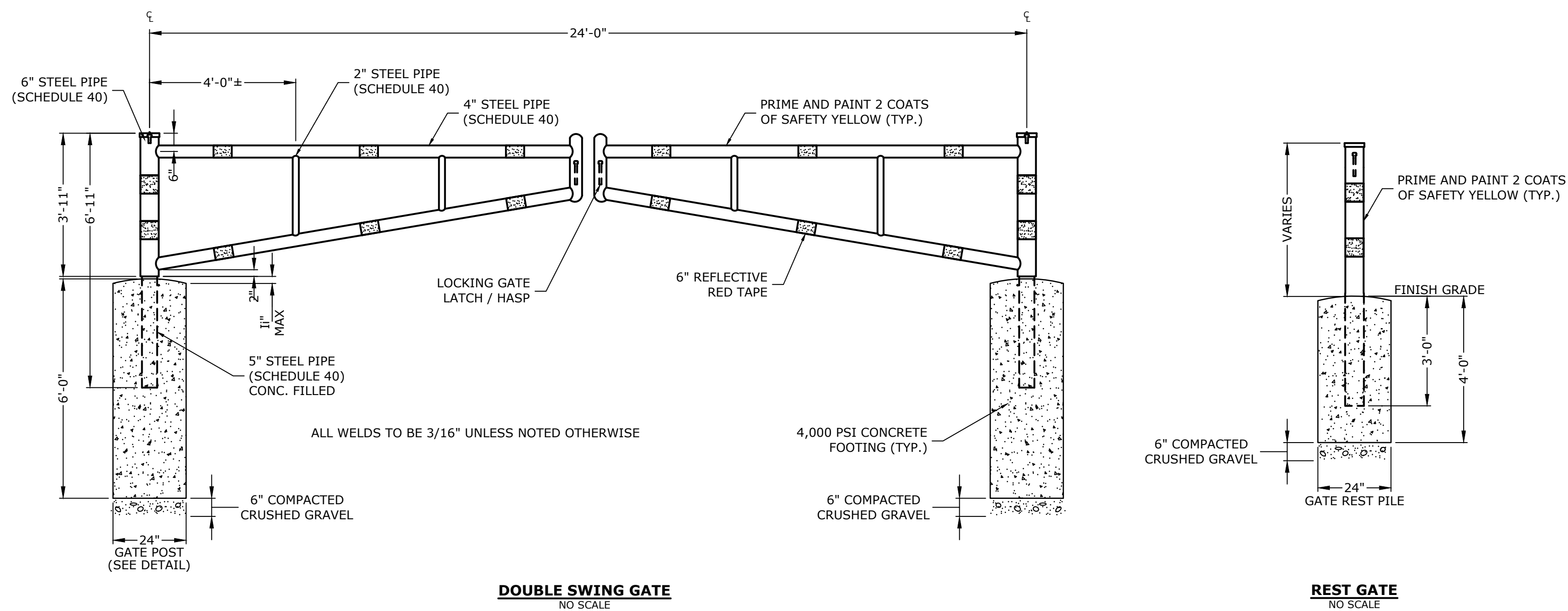
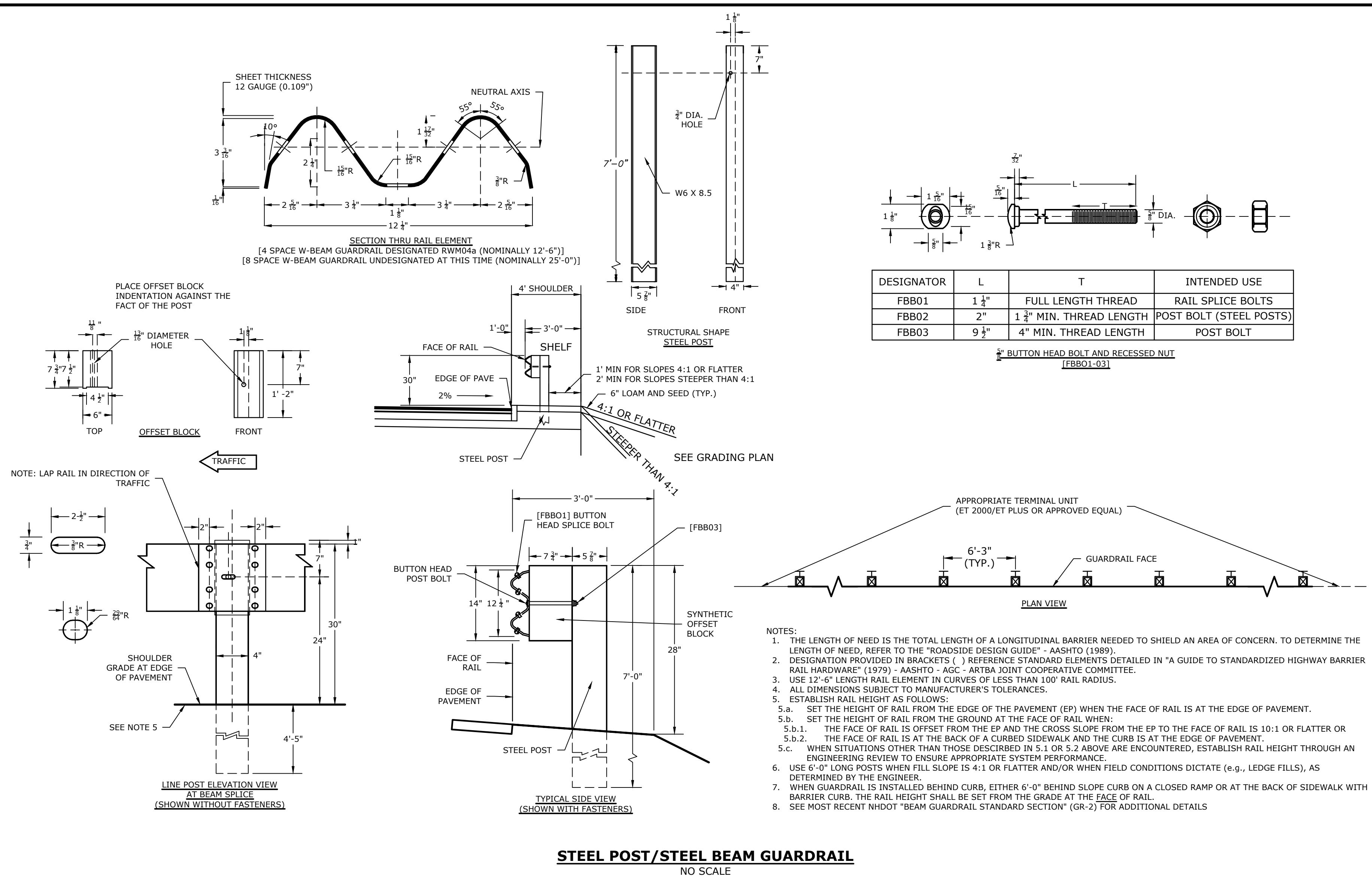
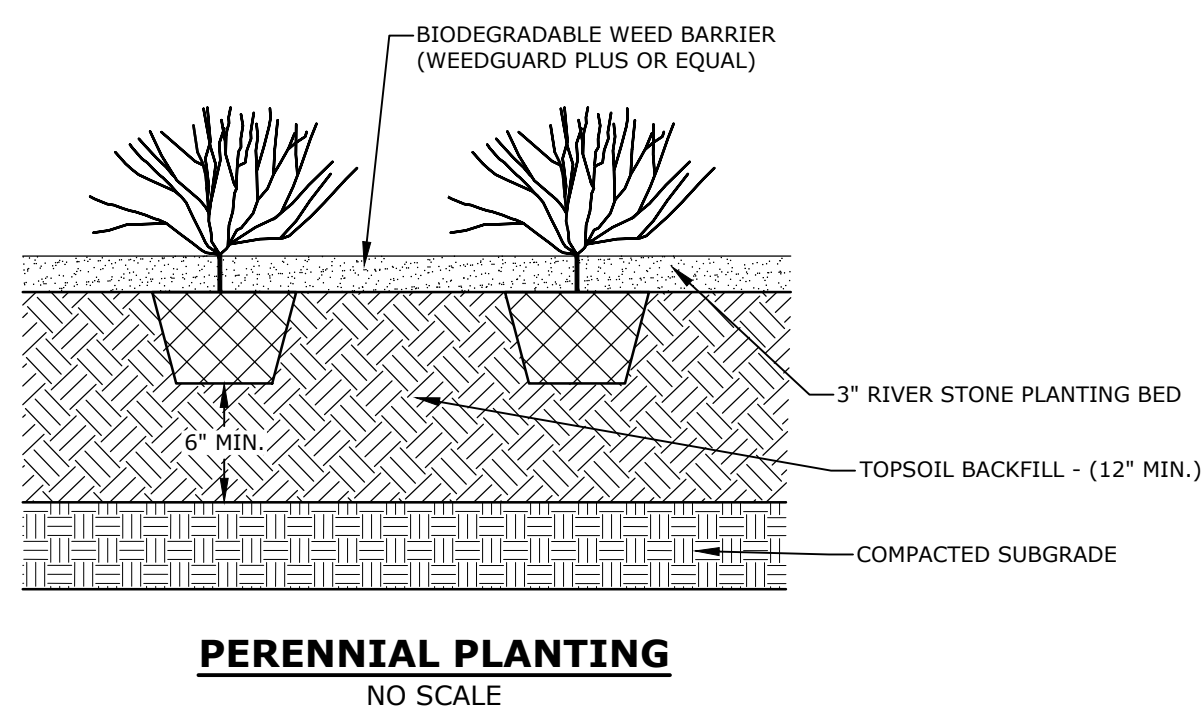
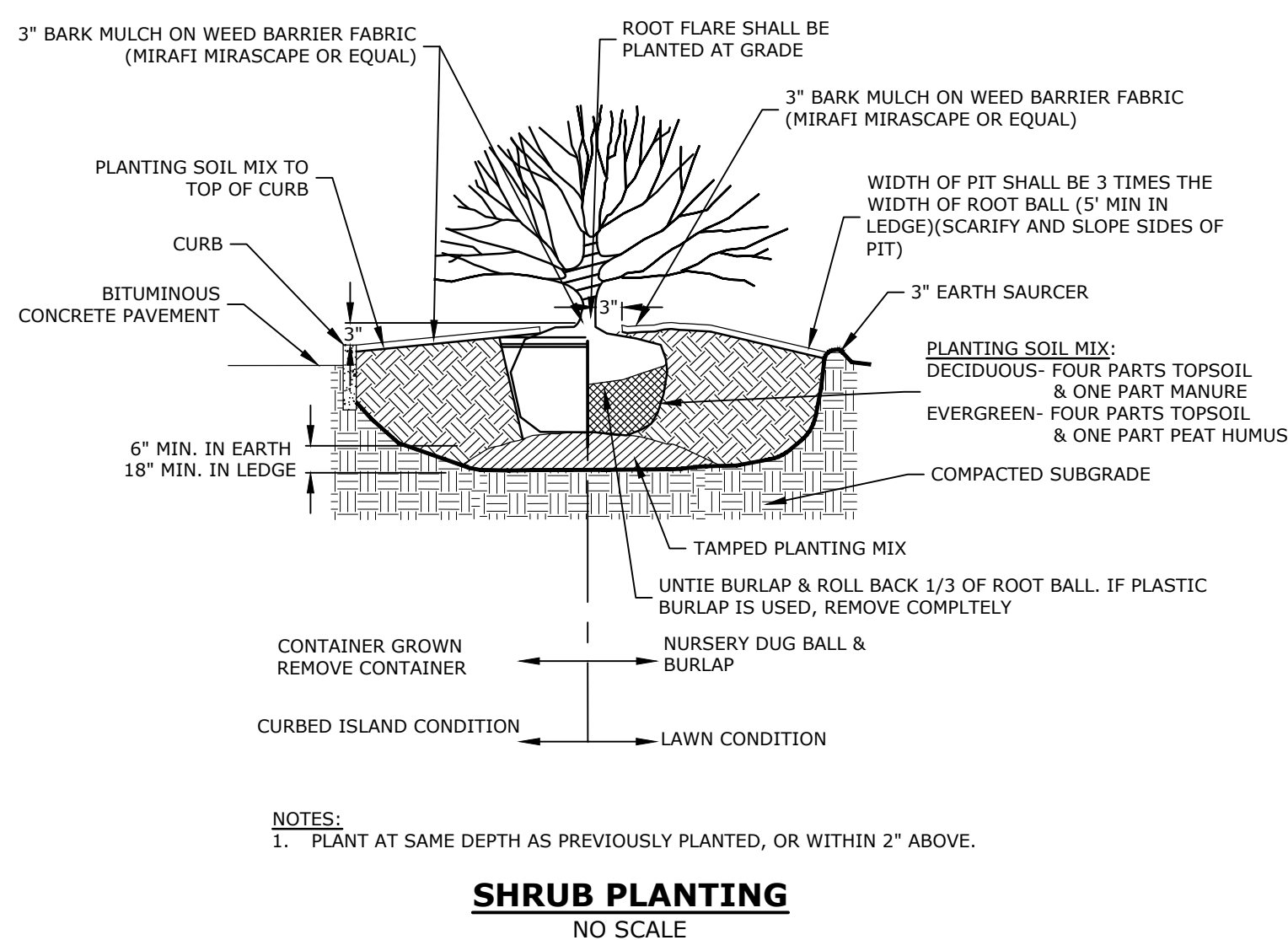
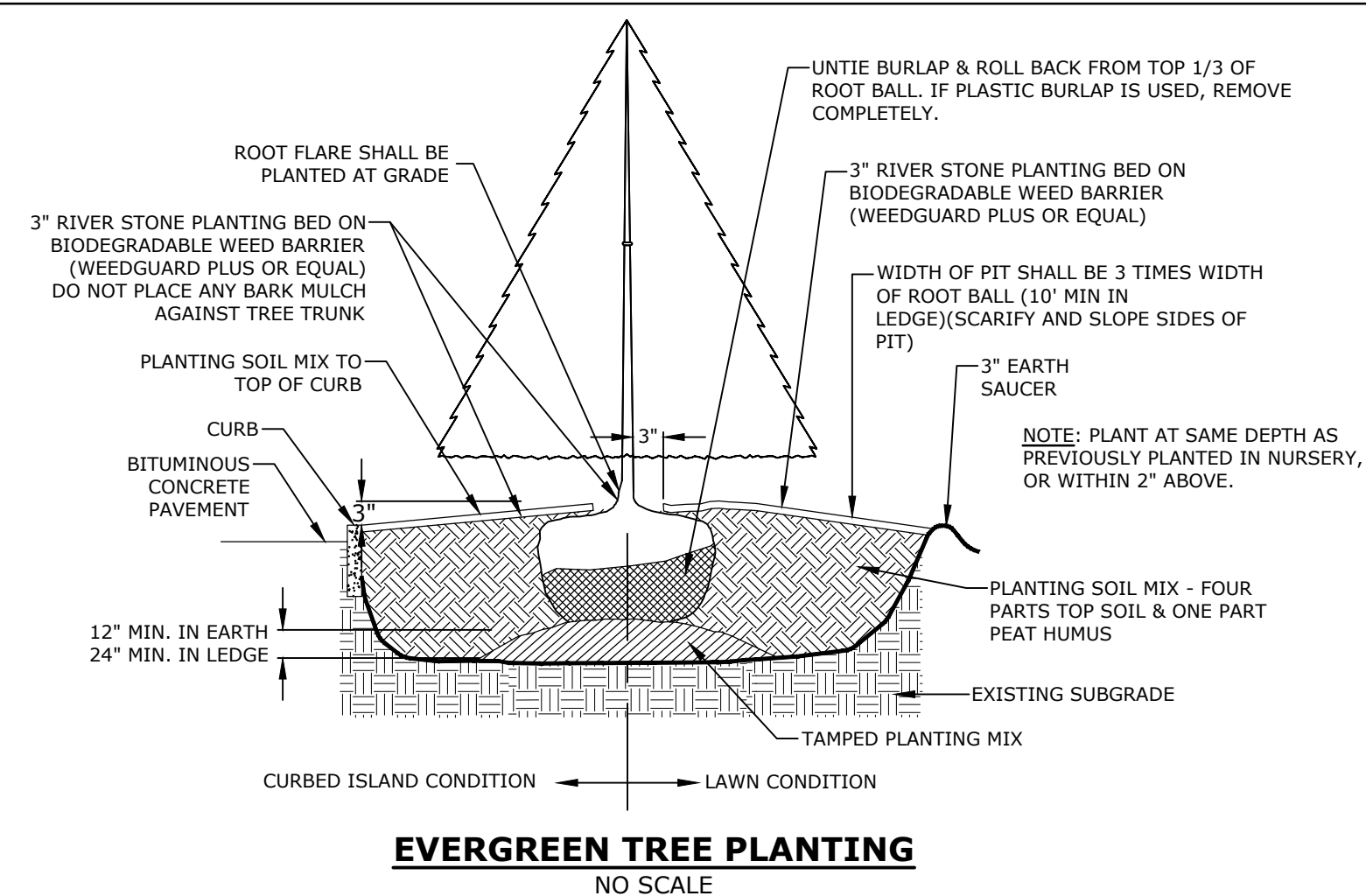
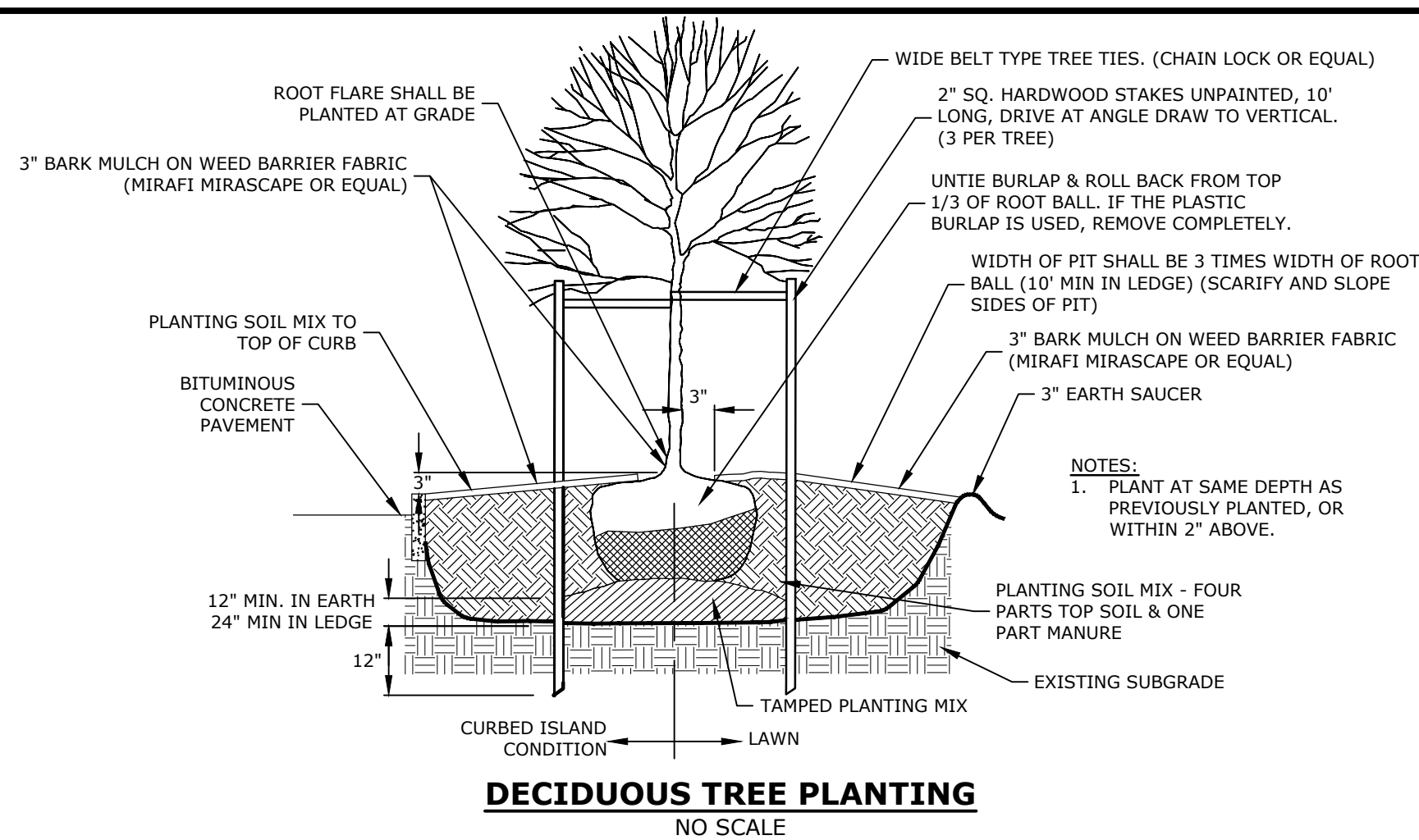
Rochester School
District

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DETAILS

SCALE: AS SHOWN

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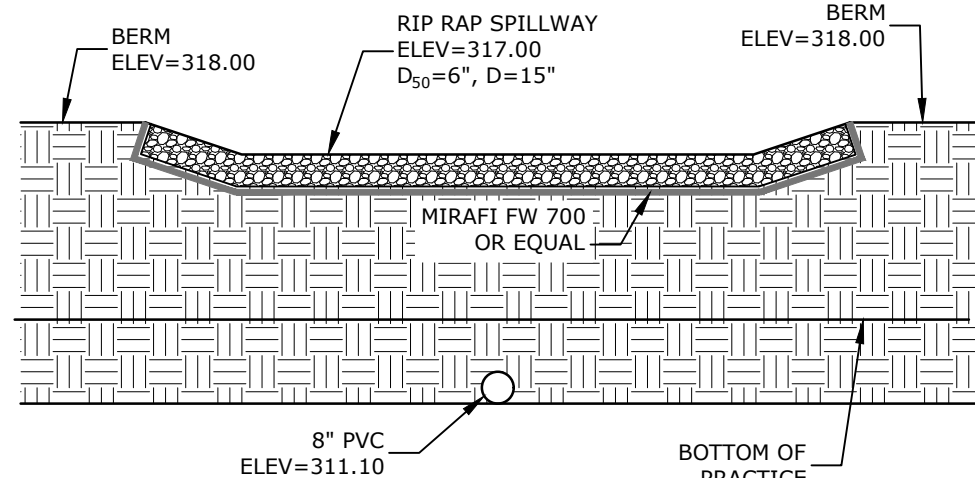
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DETAILS

SCALE: AS SHOWN

C-507

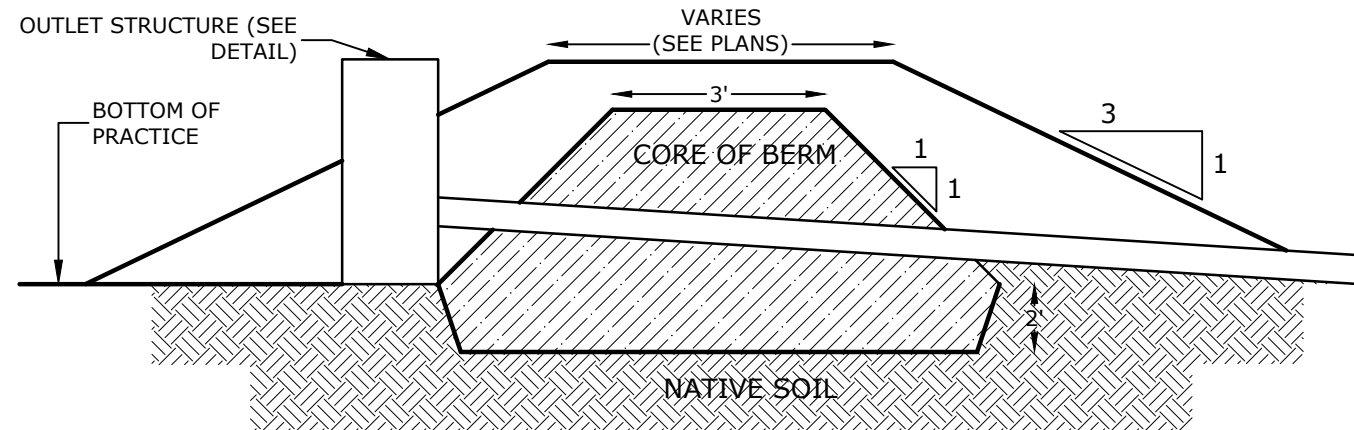
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Plotted On: Jan 22, 2024 1:46pm By: CH
Tighe & Bond 313.55197.SNU 2-24 002 Drawings AutoCAD: S5197-002_DTLS.dwg



NOTES:
1. SEE GRADING & DRAINAGE PLAN(S) FOR LOCATION(S) AND DIMENSIONS.

RIP RAP SPILLWAY

NO SCALE



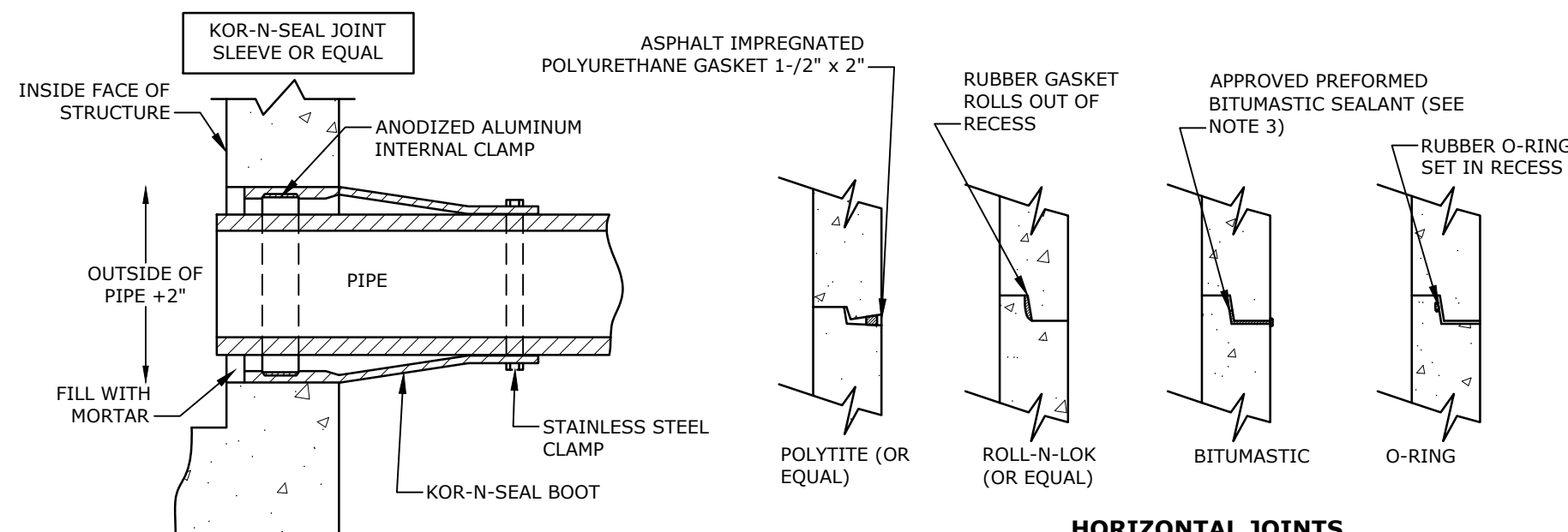
NOTES:
1. CORE MATERIAL SHALL MEET USGS CLASSIFICATION SC, SM, CL OR ML AND HAVE A MAXIMUM PARTICLE SIZE OF 3" AND A PERMEABILITY LESS THAN 0.00005 CM/S, AND MEET THE FOLLOWING GRADATION:

SIEVE SIZE	PERCENT FINER BY WEIGHT
3 INCH	100
# 200	50 -100.

2. PIPE SHALL BE FULLY EMBEDDED IN CORE TO ELIMINATE SEEPAGE

CLAY CORE BERM

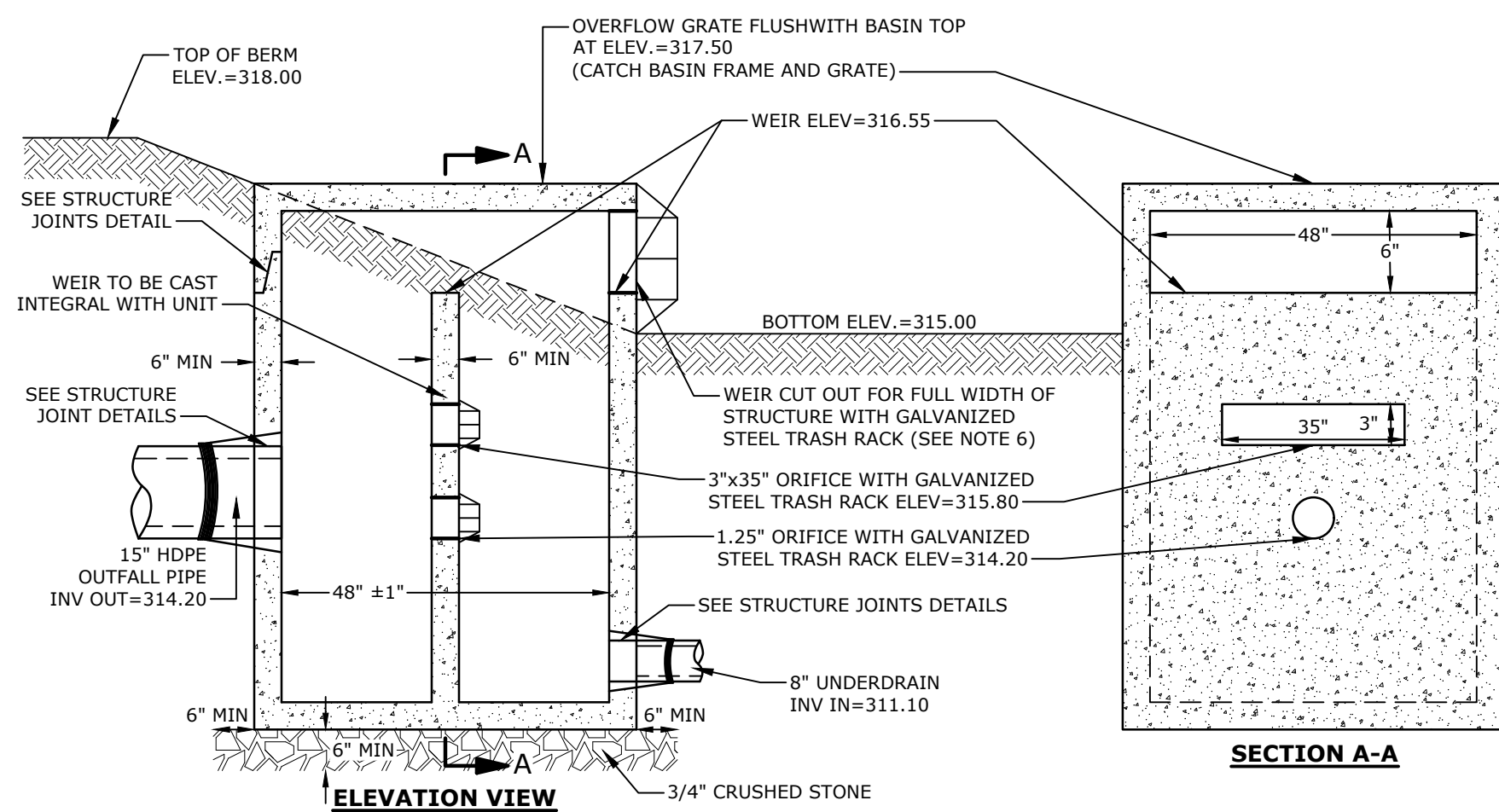
NO SCALE



NOTES:
1. HORIZONTAL JOINTS BETWEEN THE SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE PER CITY OF ROCHESTER DPW STANDARD AND SHALL BE SEALED FOR WATERTIGHTNESS USING A DOUBLE ROW ELASTOMERIC OR MASTIC-LIKE GASKET.
2. PIPE TO MANHOLE JOINTS SHALL BE PER CITY ROCHESTER STANDARD.
3. FOR BITUMASTIC TYPE JOINTS THE AMOUNT OF SEALANT SHALL BE SUFFICIENT TO FILL AT LEAST 75% OF THE JOINT CAVITY.
4. ALL GASKETS, SEALANTS, MORTAR, ETC. SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' WRITTEN INSTRUCTIONS.

STRUCTURE JOINTS

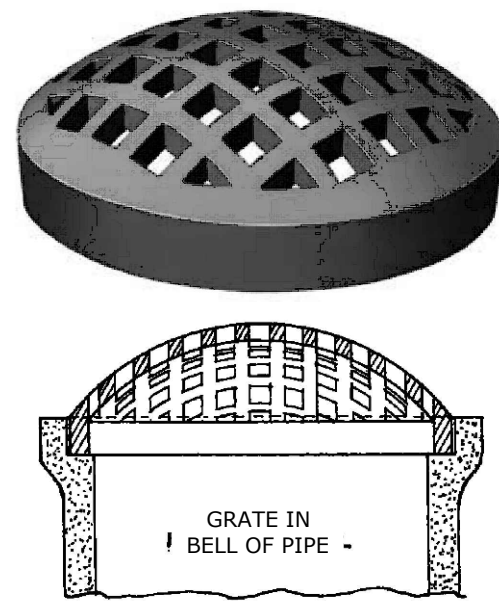
NO SCALE



NOTES:
1. ALL SECTIONS SHALL BE 4,000 PSI CONCRETE (TYPE II CEMENT).
2. CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQUARE INCHES PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.
3. THE TONGUE OR THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQUARE INCHES PER LINEAR FOOT.
4. THE STRUCTURES SHALL BE DESIGNED FOR H20 LOADING.
5. ALL JOINTS ON THE STRUCTURE AND PIPING SHALL BE WATERTIGHT.
6. ALL TRASH RACKS SHALL HAVE A MAXIMUM BAR SPACING OF 1" IN ALL DIRECTIONS.

OUTLET STRUCTURE-2 (POS-02)

NO SCALE



NOTES:
1. 8" GRAVEL WETLAND GRATES SHALL NEENAH R-4350-1 GRATE OR EQUAL.
2. 24" GRAVEL WETLAND GRATES SHALL NEENAH R-4350-E GRATE OR EQUAL.

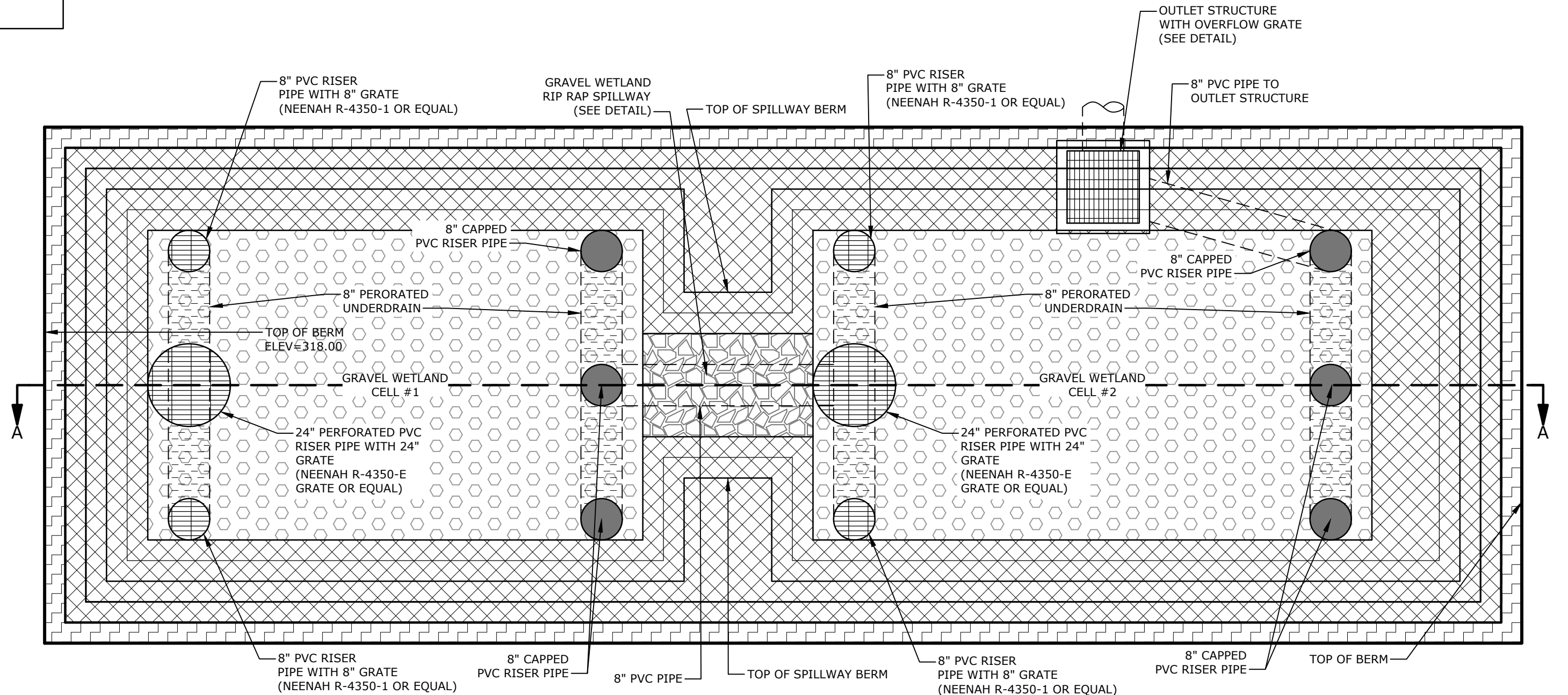
NEENAH R-4350 SERIES GRATE

NO SCALE

GRAVEL WETLAND INSPECTION / MAINTENANCE REQUIREMENTS		
INSPECTION / MAINTENANCE	FREQUENCY	ACTION
MONITOR TO ENSURE THAT GRAVEL WETLAND FUNCTIONS EFFECTIVELY AFTER STORMS	FOUR (4) TIMES ANNUALLY (QUARTERLY) AND AFTER ANY RAINFALL EVENT EXCEEDING 2.5" IN A 24-HR PERIOD	- TRASH AND DEBRIS TO BE REMOVED - ANY REQUIRED MAINTENANCE SHALL BE ADDRESSED - INSPECT SOIL AND REPAIR ERODED AREAS, ESPECIALLY ON SLOPES. - CHECK INLETS, OUTLETS, AND OVERFLOW SPILLWAY FOR BLOCKAGE, STRUCTURAL INTEGRITY AND EVIDENCE OF EROSION. - INSPECT THE CONDITION OF ALL GRAVEL WETLAND VEGETATION - PRUNE BACK OVERGROWTH - REPLACE DEAD VEGETATION - REMOVE ANY INVASIVE SPECIES - COORDINATE WITH UNH STORMWATER CENTER FOR FURTHER VEGETATION MANAGEMENT GUIDELINES
INSPECT VEGETATION	ANNUALLY	
INSPECT DRAWDOWN TIME - THE SYSTEM SHALL DRAWDOWN WITHIN 48-HOURS FOLLOWING A RAINFALL EVENT.	ANNUALLY	- HIRE QUALIFIED PROFESSIONAL TO ASSESS THE CONDITION OF THE FACILITY TO DETERMINE MEASURES REQUIRED TO RESTORE THE FILTRATION FUNCTION, INCLUDING BUT NOT LIMITED TO REMOVAL OF ACCUMULATED SEDIMENTS OR RECONSTRUCTION OF THE FILTER.

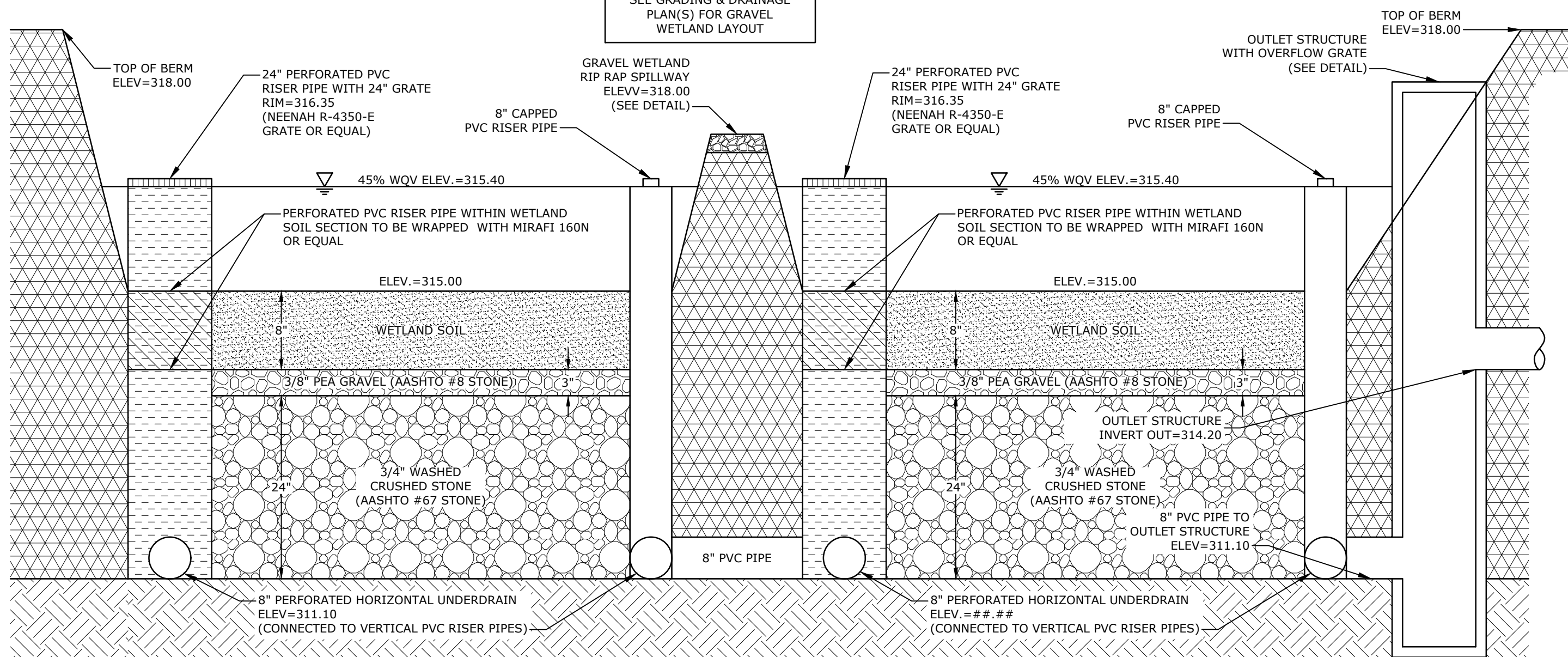
GRAVEL WETLAND PLANTING PLAN

SPECIES	PLANT SIZE	QUANTITY/SPACING
NEW ENGLAND EROSION CONTROL/RESTORATION MIX OR EQUIVALENT		35LB/ACRE
"RED OSIER DOGWOOD" CORNUS SERICEA	2'-3'	8'-10' ON CENTER
"SILKY DOGWOOD" CORNUS AMMOMUM		
AND	2'-3'	8'-10' ON CENTER
"Highbush Blueberry" VACCINIUM CORYBOSSUSUM		



TYPICAL PLAN VIEW

SEE GRADING & DRAINAGE PLAN(S) FOR GRAVEL WETLAND LAYOUT



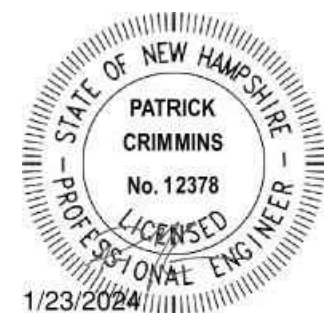
TYPICAL SECTION A-A VIEW

NOTES:
1. WETLAND SOIL SHALL BE A SANDY CLAY LOAM WITH A HYDRAULIC CONDUCTIVITY OF 0.1-0.01 FT/DAY. ORGANIC CONTENT SHALL BE GREATER THAN 15% BY VOLUME. CLAY CONTENT SHALL BE LESS THAN 15% BY VOLUME.
2. INFILTRATION TESTING OF THE NATIVE SOILS AT THE SUBGRADE OF THE PROPOSED GRAVEL WETLAND SHALL OCCUR PRIOR TO THE INSTALLATION OF THE GRAVEL WETLAND AND SHALL BE COORDINATED WITH THE ENGINEER. IF THE NATIVE SOILS EXCEED A PERMEABILITY RATE OF 0.03 FT/DAY THE SOILS SHOULD AMENDED OR LINER ADDED AS DETERMINED BY THE ENGINEER.
3. PERFORATED PVC RISERS SHALL HAVE VERTICAL SLOTS CUT INTO PVC RISERS ABOVE GRADE MEASURING 3"x1/8".

GRAVEL WETLAND

NO SCALE

Tighe & Bond



ROCHESTER ELEMENTARY SCHOOL

753 Salmon Falls Road Rochester, NH 03868

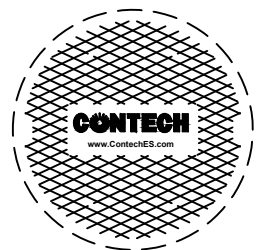
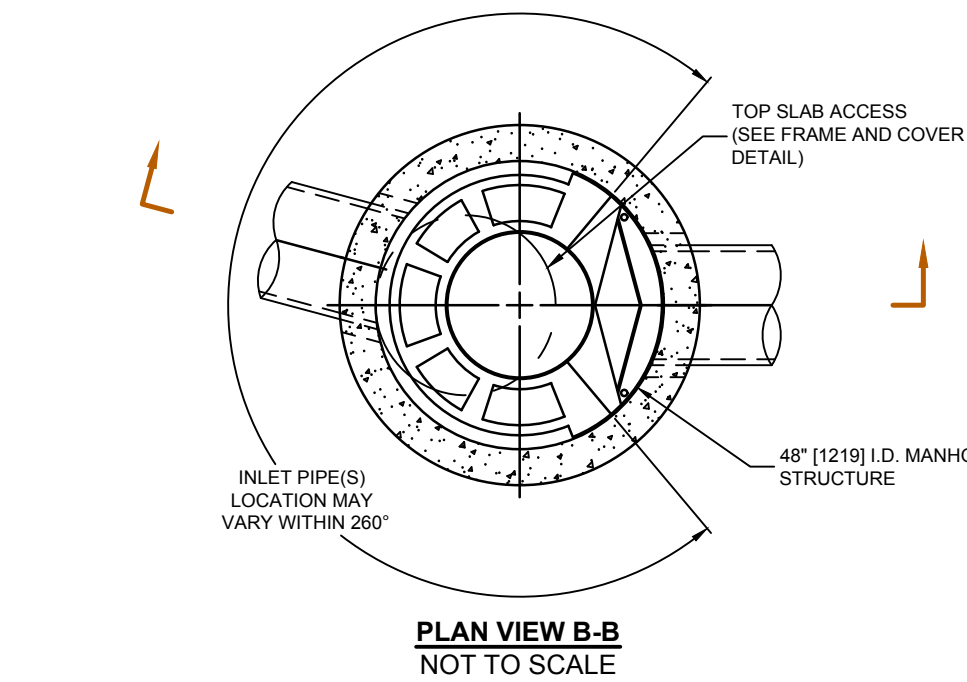
Rochester School District

MARK	DATE	DESCRIPTION
C	1/23/2024	REV TRG SUBMISSION
B	1/19/2024	AOT RFMI RESPONSE
A	12/12/2023	PB SUBMISSION
DATE	DESCRIPTION	
PROJECT NO:	R5077-001	
DATE:	11/9/2023	
FILE:	S5197-002_DTLS.dwg	
DRAWN BY:	NHW/CML	
DESIGNED/CHECKED BY:	AFS/ED	
APPROVED BY:	PMC	

DETAILS

SCALE: AS SHOWN

C-508



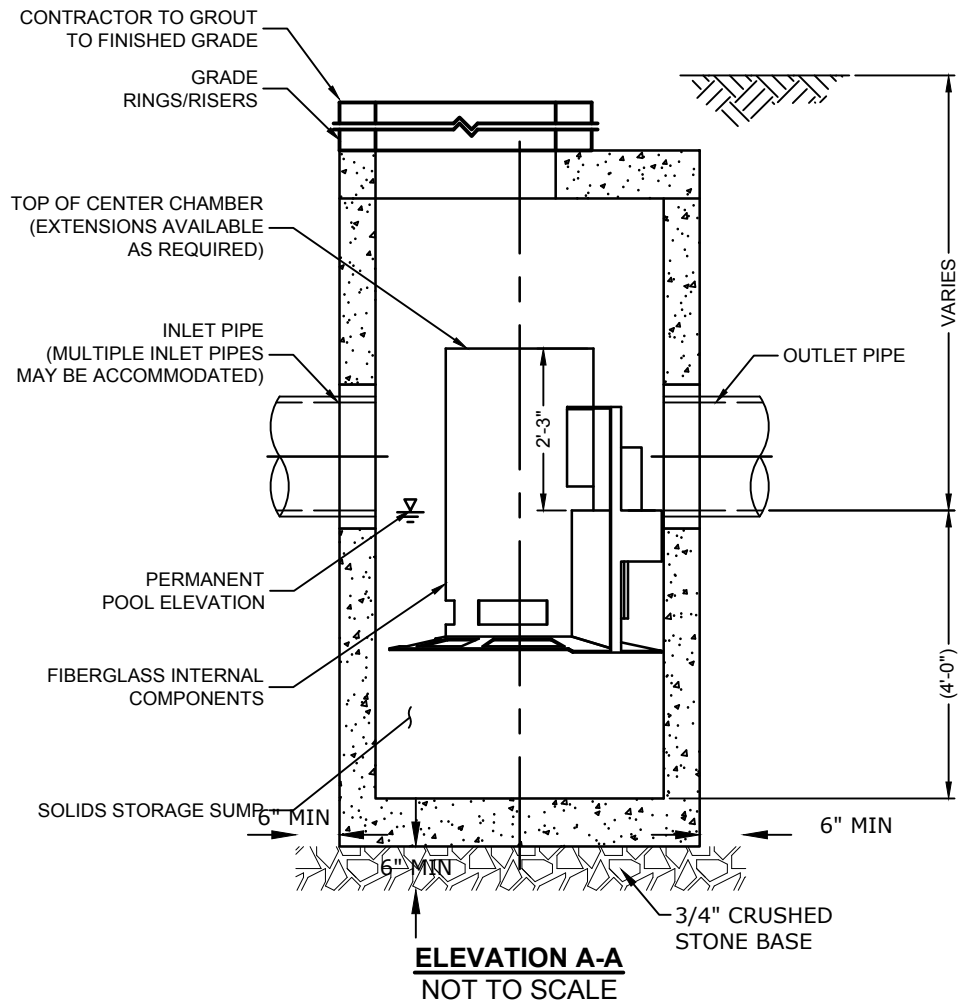
FRAME AND COVER
(DIAMETER VARIES)
NOT TO SCALE

SITE SPECIFIC DATA REQUIREMENTS	
STRUCTURE ID	PCSTU-1
WATER QUALITY FLOW RATE (cfs [L/s])	1.608
PEAK FLOW RATE (cfs [L/s])	6.54
RETURN PERIOD OF PEAK FLOW (yrs)	2

SITE SPECIFIC DATA REQUIREMENTS	
STRUCTURE ID	PCSTU-2
WATER QUALITY FLOW RATE (cfs [L/s])	0.516
PEAK FLOW RATE (cfs [L/s])	2.52
RETURN PERIOD OF PEAK FLOW (yrs)	2

SITE SPECIFIC DATA REQUIREMENTS	
STRUCTURE ID	PCSTU-3
WATER QUALITY FLOW RATE (cfs [L/s])	1.507
PEAK FLOW RATE (cfs [L/s])	4.88
RETURN PERIOD OF PEAK FLOW (yrs)	2

- GENERAL NOTES:
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 - FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.conteches.com
 - CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
 - CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO H20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' (610), AND GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
 - CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
- INSTALLATION NOTES:
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
 - CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
 - CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
 - CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.



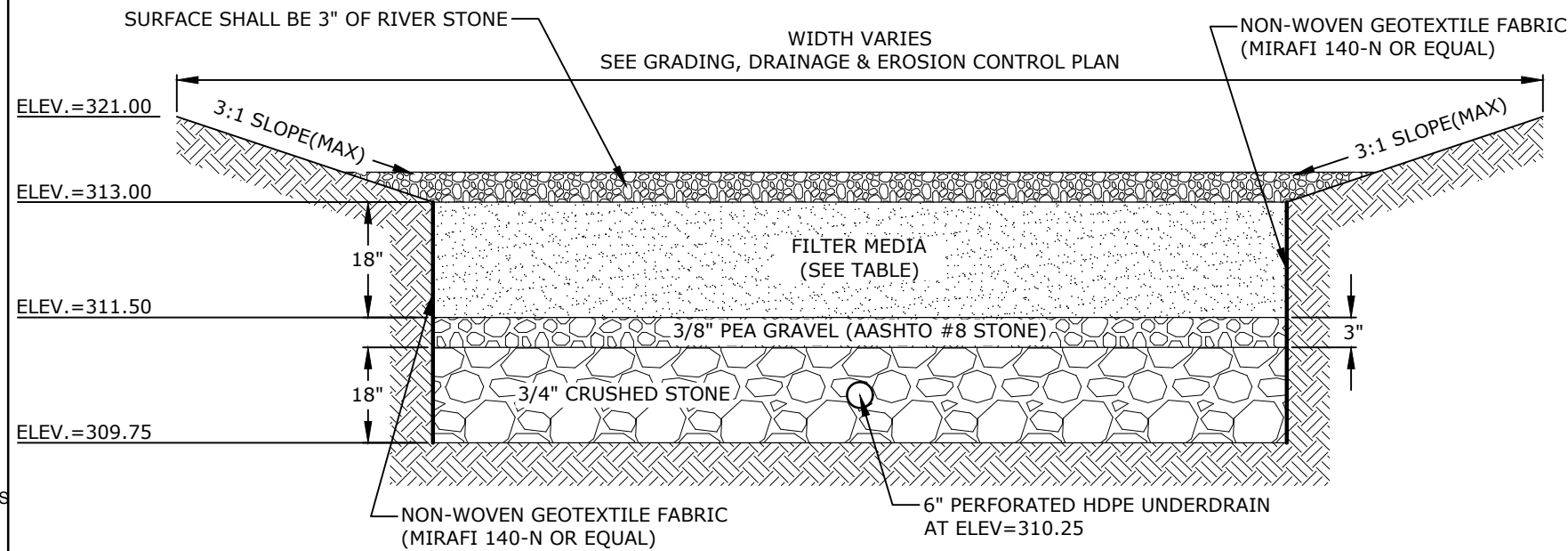
PCSTU-1		
Water Quality Volume (WQV)		
3.35	ac	A = Area draining to the practice
1.60	ac	AI = Impervious area draining to the practice
0.48	decimal	I = Percent impervious area draining to the practice, in decimal form
0.48	unitless	Rv = Runoff coefficient = 0.05 + (0.9 x I)
1.61	ac-in	WQV = 1" x Rv x A
5835	cf	WQV conversion (ac-in x 43,560 sf/ac x 1ft/12")
Water Quality Flow (WQF)		
1	inches	P = Amount of rainfall. For WQF in NH, P = 1".
0.48	inches	Q = Water quality depth. Q = WQV/A
94	unitless	CN = Unit peak discharge curve number. CN = 1000/(10+5P+10Q-10)*(Q2 + 1.25*Q*P)0.5
0.70	inches	S = Potential maximum retention. S = (1000/CN) - 10
0.338	inches	Ia = Initial abstraction. Ia = 0.25
6.0	minutes	Tc = Time of Concentration
640	cfs/mi2/in	qu is the unit peak discharge. Obtain this value from TR-55 exhibits 4-II and 4-III.
1.608	cfs	WQF = qu x WQV. Conversion: to convert "cfs/mi2/in * ac-in" to "cfs" multiply by 1mi2/640ac.

PCSTU-2		
Water Quality Volume (WQV)		
1.49	ac	A = Area draining to the practice
0.49	ac	AI = Impervious area draining to the practice
0.33	decimal	I = Percent impervious area draining to the practice, in decimal form
0.35	unitless	Rv = Runoff coefficient = 0.05 + (0.9 x I)
0.52	ac-in	WQV = 1" x Rv x A
1871	cf	WQV conversion (ac-in x 43,560 sf/ac x 1ft/12")
Water Quality Flow (WQF)		
1	inches	P = Amount of rainfall. For WQF in NH, P = 1".
0.35	inches	Q = Water quality depth. Q = WQV/A
91	unitless	CN = Unit peak discharge curve number. CN = 1000/(10+5P+10Q-10)*(Q2 + 1.25*Q*P)0.5
1.00	inches	S = Potential maximum retention. S = (1000/CN) - 10
0.206	inches	Ia = Initial abstraction. Ia = 0.25
6.0	minutes	Tc = Time of Concentration
640	cfs/mi2/in	qu is the unit peak discharge. Obtain this value from TR-55 exhibits 4-II and 4-III.
0.516	cfs	WQF = qu x WQV. Conversion: to convert "cfs/mi2/in * ac-in" to "cfs" multiply by 1mi2/640ac.

PCSTU-3		
Water Quality Volume (WQV)		
1.69	ac	A = Area draining to the practice
1.58	ac	AI = Impervious area draining to the practice
0.93	decimal	I = Percent impervious area draining to the practice, in decimal form
0.89	unitless	Rv = Runoff coefficient = 0.05 + (0.9 x I)
1.51	ac-in	WQV = 1" x Rv x A
5469	cf	WQV conversion (ac-in x 43,560 sf/ac x 1ft/12")
Water Quality Flow (WQF)		
1	inches	P = Amount of rainfall. For WQF in NH, P = 1".
0.89	inches	Q = Water quality depth. Q = WQV/A
99	unitless	CN = Unit peak discharge curve number. CN = 1000/(10+5P+10Q-10)*(Q2 + 1.25*Q*P)0.5
0.10	inches	S = Potential maximum retention. S = (1000/CN) - 10
0.020	inches	Ia = Initial abstraction. Ia = 0.25
6.0	minutes	Tc = Time of Concentration
640	cfs/mi2/in	qu is the unit peak discharge. Obtain this value from TR-55 exhibits 4-II and 4-III.
1.507	cfs	WQF = qu x WQV. Conversion: to convert "cfs/mi2/in * ac-in" to "cfs" multiply by 1mi2/640ac.

CASCADE SEPARATOR TREATMENT UNIT (CSTU)
NO SCALE

SURFACE SAND FILTER INSPECTION/MAINTENANCE REQUIREMENTS		
INSPECTION / MAINTENANCE	FREQUENCY	ACTION
MONITOR TO ENSURE THAT RAIN GARDENS FUNCTION EFFECTIVELY AFTER STORMS	TWO (2) TIMES ANNUALLY AND AFTER ANY RAINFALL EVENT EXCEEDING 2.5" IN A 24-HR PERIOD	• TRASH AND DEBRIS TO BE REMOVED • ANY REQUIRED MAINTENANCE SHALL BE ADDRESSED
INSPECT VEGETATION	ANNUALLY	• INSPECT THE CONDITION OF ALL VEGETATION • PRUNE BACK OVERGROWTH • REPLACE DEAD VEGETATION • REMOVE ANY INVASIVE SPECIES
INSPECT DRAWDOWN TIME: • THE SYSTEM SHALL DRAWDOWN WITHIN 48-HOURS FOLLOWING A RAINFALL EVENT.	ANNUALLY	• ASSESS THE CONDITION OF THE FACILITY TO DETERMINE MEASURES REQUIRED TO RESTORE THE FILTRATION FUNCTION, INCLUDING BUT NOT LIMITED TO REMOVAL OF ACCUMULATED SEDIMENTS OR RECONSTRUCTION OF THE FILTER



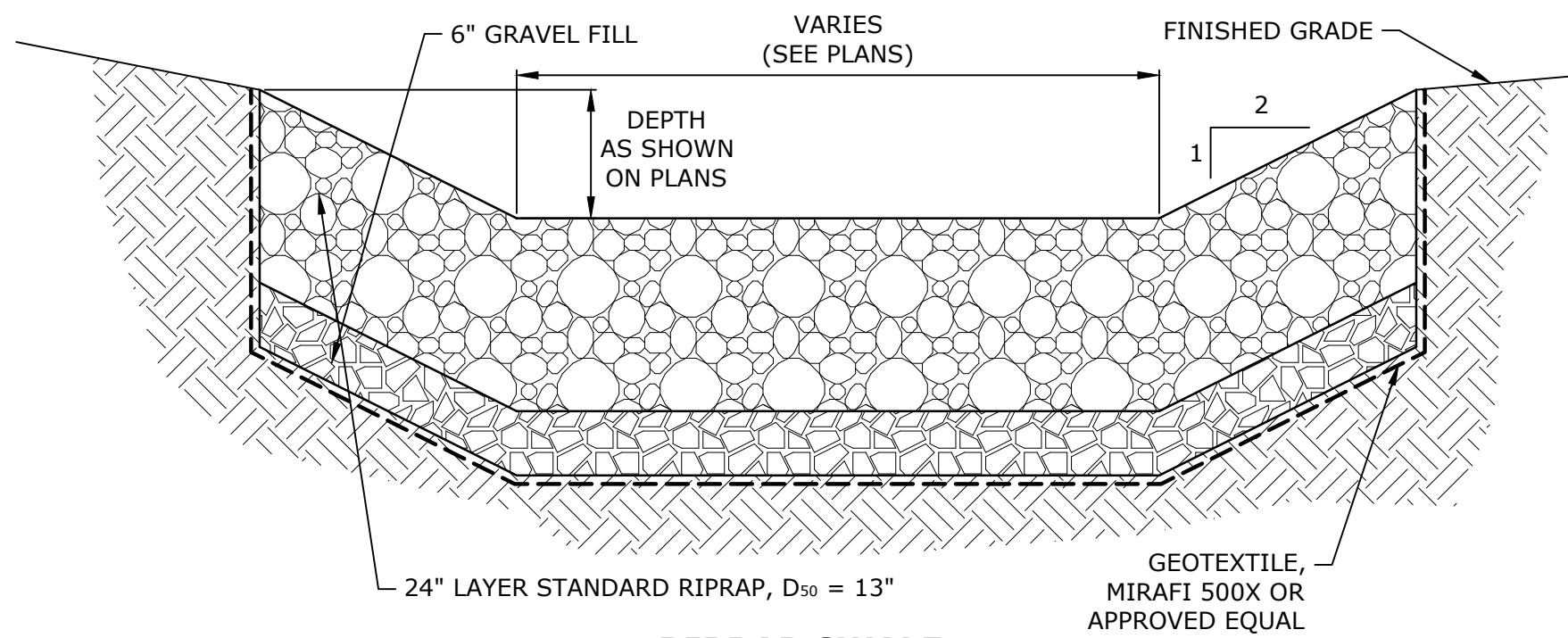
- NOTES:
- SAND FILTER SHALL NOT BE PLACED INTO SERVICE UNTIL CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.
 - DO NOT TRAFFIC EXPOSED SOIL SURFACES WITH CONSTRUCTION EQUIPMENT. CONTRACTOR SHALL KEEP ALL EXCAVATION EQUIPMENT OUTSIDE OF THE LIMIT OF THE SAND FILTER.
 - SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR LOCATIONS, LAYOUTS, AND ELEVATIONS.
 - THE SAND PORTION OF THE FILTER MEDIA SHALL MEET THE FOLLOWING GRADATION (ASTM C-33):

SIEVE SIZE	PERCENT PASSING
3/8"	100
#4	95-100
#8	80-100
#16	50-85
#30	25-60
#50	5-30
#100	0-10

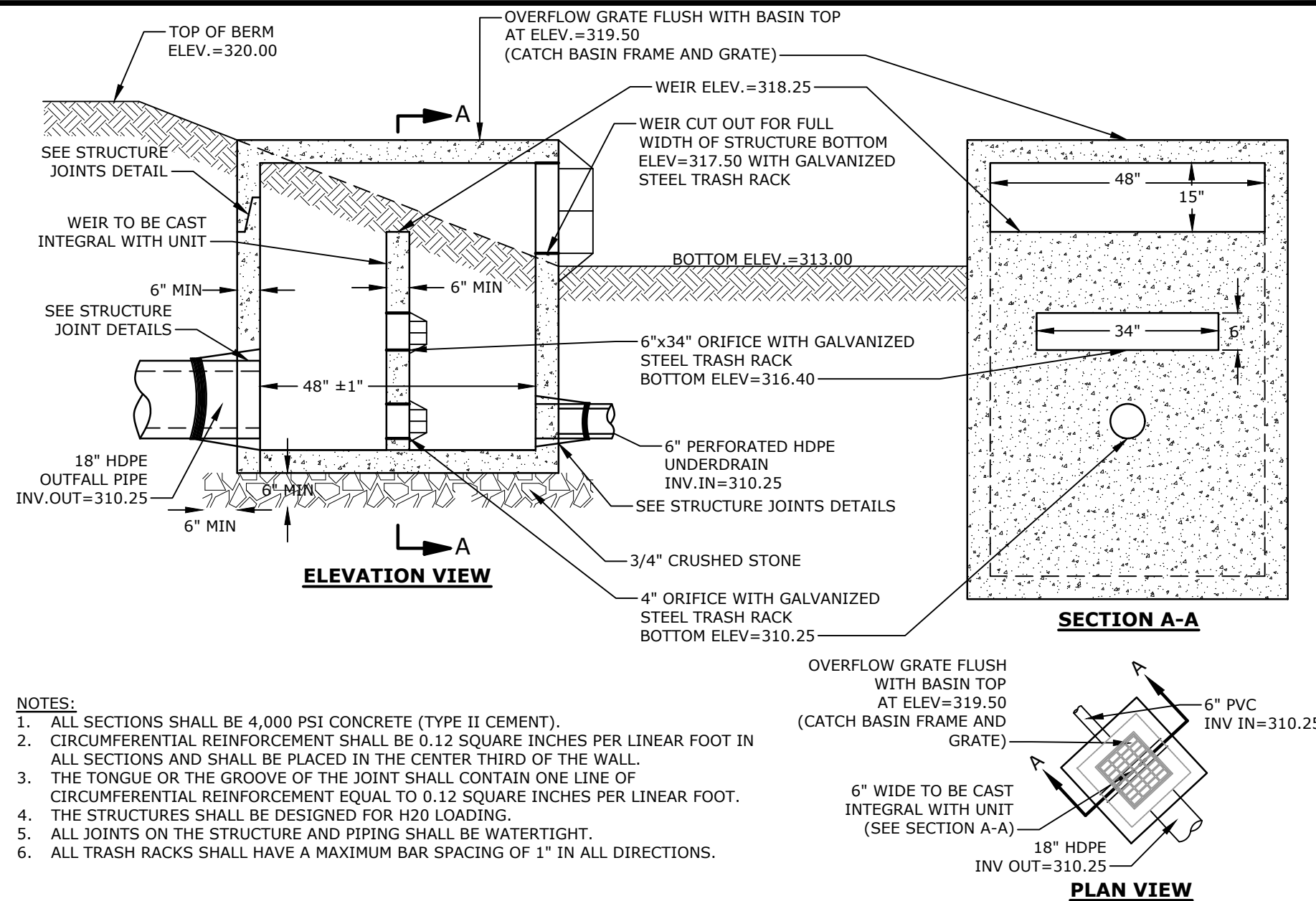
FILTER MEDIA COMPOSITION:

COMPONENT MATERIAL	PERCENT OF MIXTURE BY VOLUME	GRADATION OF MATERIAL SIEVE NO.	PERCENT PASSING
ASTM C-33 CONCRETE SAND	50-55	200	SEE NOTE #4
LOAMY SAND TOPSOIL	20-30	15-25	15-25
MODERATELY FINE SHREDDED BARK OR WOOD FIBER MULCH	20-30	200	5 MAX

SURFACE SAND FILTER
NO SCALE

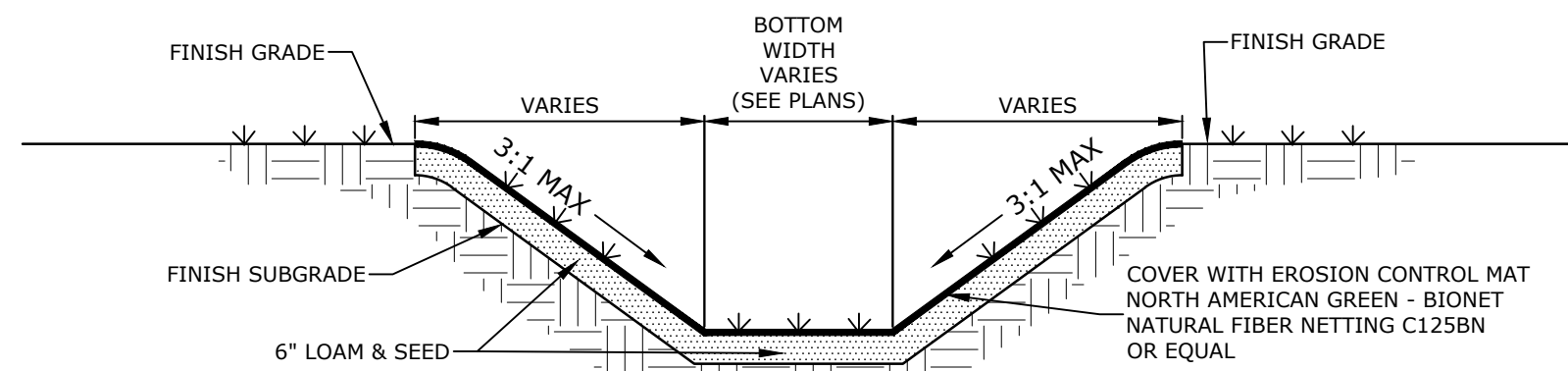


RIPRAP SWALE



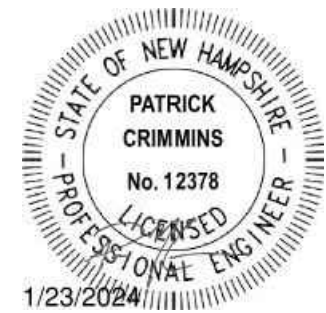
- NOTES:
- ALL SECTIONS SHALL BE 4,000 PSI CONCRETE (TYPE II CEMENT).
 - CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQUARE INCHES PER LINEAR FOOT IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL.
 - THE TONGUE OR THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQUARE INCHES PER LINEAR FOOT.
 - THE STRUCTURES SHALL BE DESIGNED FOR H2O LOADING.
 - ALL JOINTS ON THE STRUCTURE AND PIPING SHALL BE WATERTIGHT.
 - ALL TRASH RACKS SHALL HAVE A MAXIMUM BAR SPACING OF 1" IN ALL DIRECTIONS.

OUTLET STRUCTURE-1 (POS-01)
NO SCALE



- NOTES:
- THE FOUNDATION AREA OF THE WATERWAY SHALL BE CLEARED AND GRUBBED OF ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIAL. MATERIALS REMOVED SHALL BE DISPOSED OF SO THEY WILL NOT INTERFERE WITH THE CONSTRUCTION OR PROPER FUNCTIONING OF THE WATERWAY.
 - THE WATERWAY SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS-SECTION AS REQUIRED TO MEET THE DESIGN CRITERIA. THE WATERWAY SHALL BE FREE OF IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.
 - EARTH FILLS REQUIRED TO MEET SUBGRADE REQUIREMENTS BECAUSE OF OVER EXCAVATION OR TOPOGRAPHY SHALL BE COMPACTED TO THE SAME DENSITY AS THE SURROUNDING SOIL TO PREVENT UNEQUAL SETTLEMENT THAT COULD CAUSE DAMAGE TO THE COMPLETED WATERWAY. EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE SPREAD OR DISPOSED OF SO IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE WATERWAY.
 - CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER AS TO MINIMIZE EROSION AND AIR AND WATER POLLUTION. ALL APPROPRIATE STATE AND LOCAL LAWS AND REGULATIONS SHALL BE COMPLIED WITH FOR INSTALLATION.
 - VEGETATION SHALL BE ESTABLISHED IN THE SWALE PRIOR TO ALLOWING STORMWATER RUNOFF TO FLOW THROUGH THE SWALE.
 - MAINTENANCE OF THE VEGETATION IN THE GRASSED WATERWAY IS EXTREMELY IMPORTANT IN ORDER TO PREVENT RILLING, EROSION, AND FAILURE OF THE WATERWAY. MOWING SHOULD BE DONE FREQUENTLY ENOUGH TO CONTROL ENCROACHMENT OF WEEDS AND WOODY VEGETATION AND TO KEEP THE GRASSES IN A VIGOROUS CONDITION. THE VEGETATION SHOULD NOT BE MOWED TOO CLOSELY SO AS TO REDUCE THE EROSION RESISTANCE IN THE WATERWAY.
 - THE WATERWAY SHOULD BE INSPECTED PERIODICALLY AND AFTER EVERY MAJOR STORM TO DETERMINE THE CONDITION OF THE WATERWAY. RILLS AND DAMAGED AREAS SHOULD BE PROMPTLY REPAIRED AND REVEGETATED AS NECESSARY TO PREVENT FURTHER DETERIORATION.
 - PERIODIC APPLICATIONS OF LIME AND FERTILIZER MAY BE NEEDED TO MAINTAIN VIGOROUS GROWTH.

GRASSED LINED SWALE
NO SCALE



ROCHESTER
ELEMENTARY
SCHOOL

753 Salmon Falls
Road Rochester,
NH 03868

Rochester School
District

MARK	DATE	DESCRIPTION
C	1/23/2024	REV TRG SUBMISSION
B	1/19/2024	AOT RFMI RESPONSE
A	12/12/2023	PB SUBMISSION
PROJECT NO: R5077-001		
DATE: 11/9/2023		
FILE: S5197-002-DTLS.dwg		
DRAWN BY: NHW/CML		
DESIGNED/CHECKED BY: AFS/ED		
APPROVED BY: PMC		

DETAILS

SCALE: AS SHOWN

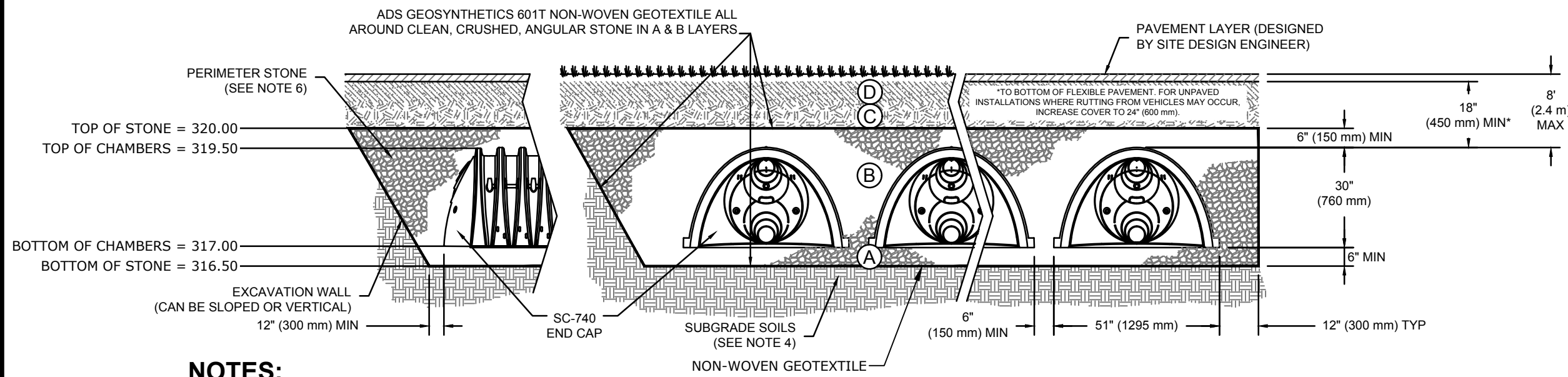
C-509

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ¹ A

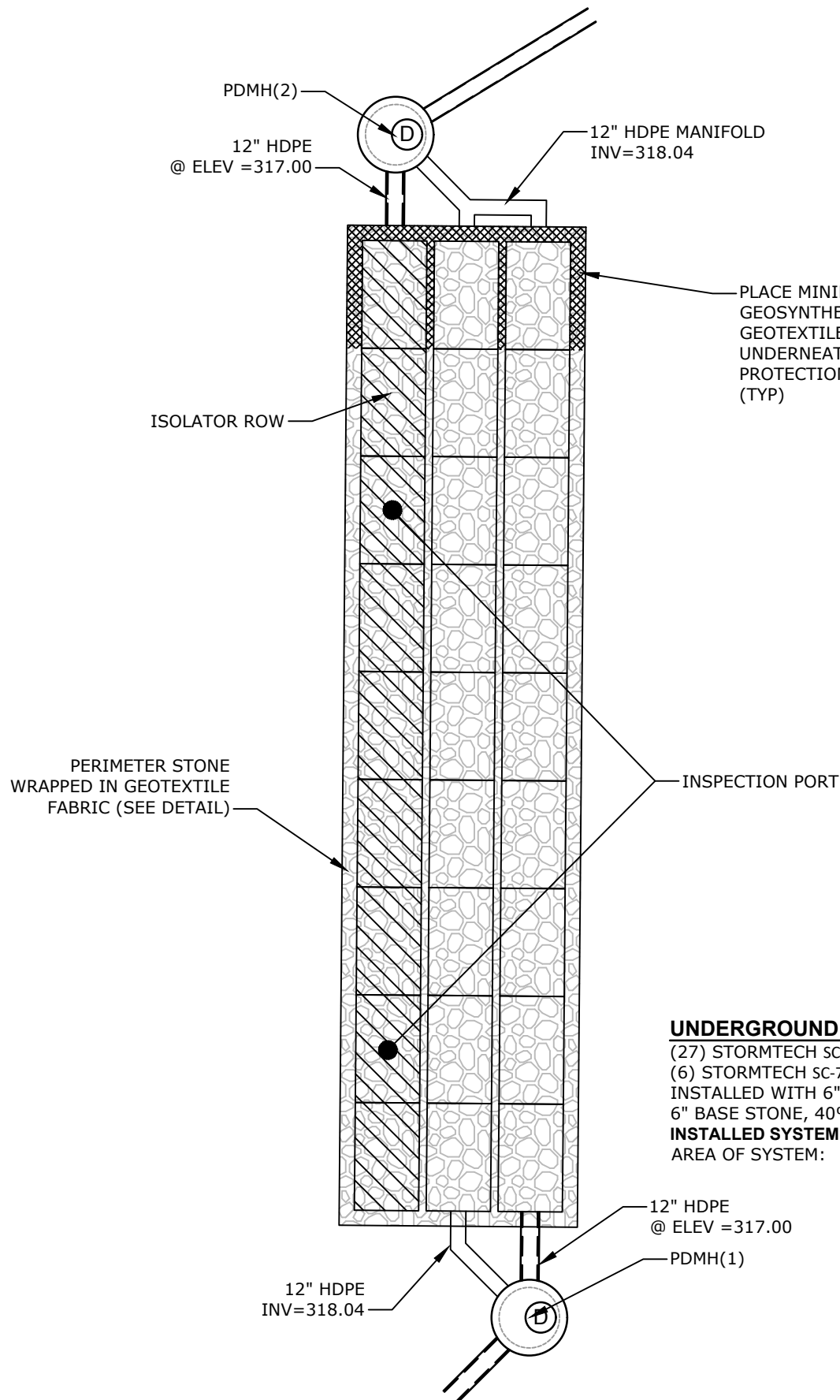
PLEASE NOTE:

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



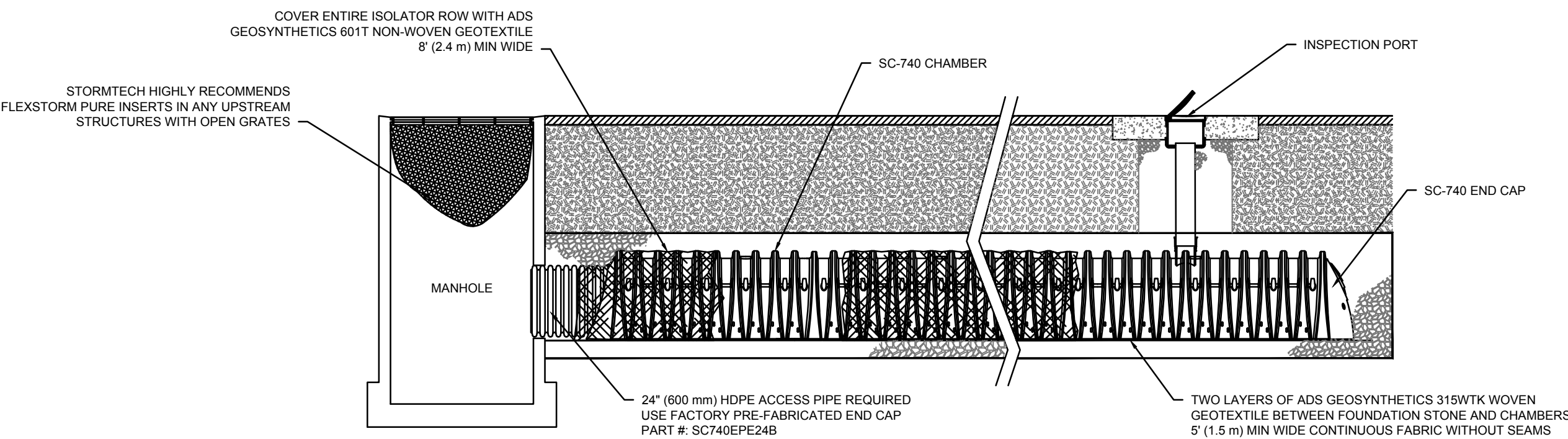
NOTES:

- SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
- PLACE MINIMUM 12.5' OF ADS GEOSYNTHETICS 315WTK WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS



UNDERGROUND INFILTRATION BASIN 1
STORMTECH SC-740 CHAMBER LAYOUT

NO SCALE



SC-740 ISOLATOR ROW DETAIL
NTS

INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
- A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
- A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
- A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
- A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
- A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR ROWS
- B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
- B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
- i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
- ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
- B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS. RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.
- IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS. ^J
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-780 CONSTRUCTION GUIDE". ^J
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. ^J
- STORMTECH RECOMMENDS 3 BACKFILL METHODS:
- STONESHOOTER LOCATED OFF THE CHAMBER BED.
- BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
- BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR. ^J
- THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS. ^J
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE. ^J
- MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS. ^J
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4"-2" (20-50 mm). ^J
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER. ^J
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

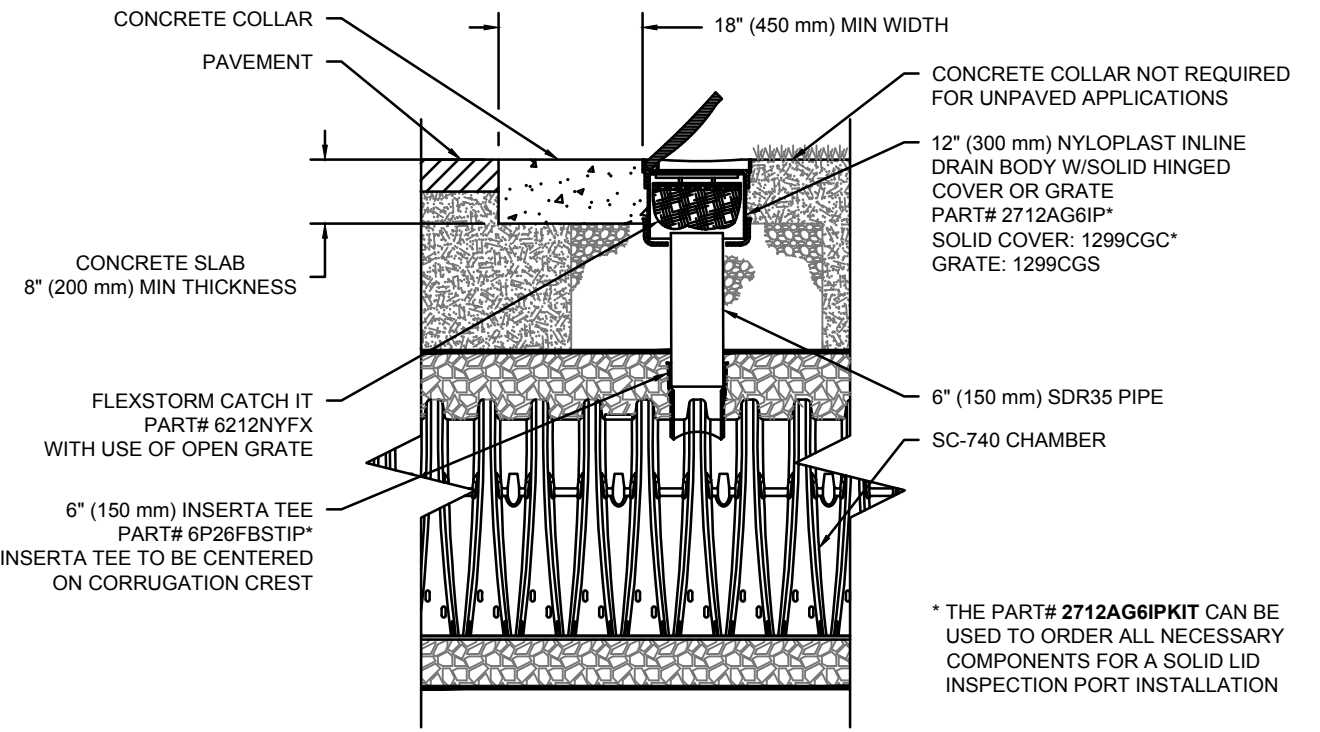
- STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE". ^J
- THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740 CHAMBERS IS LIMITED:
- NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
- NO RUBBER Tired LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE". ^J
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

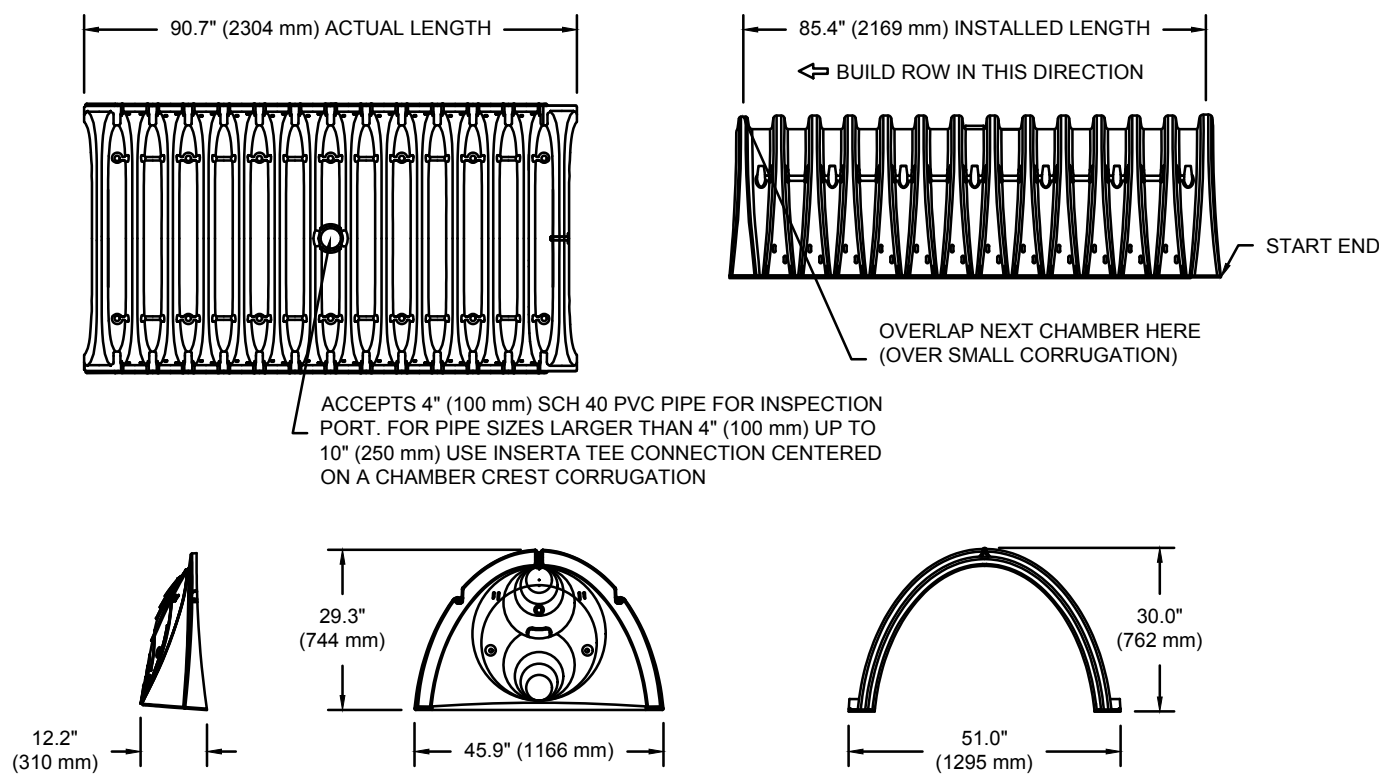
STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH SC-740, SC-310, OR APPROVED EQUAL.
- CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN POLYPROPYLENE OR POLYETHYLENE RESINS. ^J
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". ^J
- CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
- 7.1. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
- 7.2. A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
- 7.3. STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.



SC-740 6" INSPECTION PORT DETAIL
NTS

SC-740 TECHNICAL SPECIFICATION
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4"	(1295 mm X 762 mm X 2169 mm)
CHAMBER STORAGE	45.8 CUBIC FEET	(1.30 m³)
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET	(2.12 m³)
WEIGHT	75.0 lbs.	(33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS

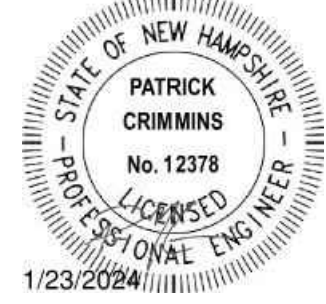
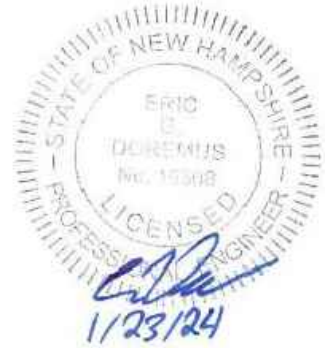
PART #	STUB	A	B	C
SC740EP06T / SC740EP06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	0.5" (13 mm)
SC740EP08B / SC740EP08BPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	---
SC740EP08B / SC740EP08BPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	0.8" (15 mm)
SC740EP10T / SC740EP10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	---
SC740EP10B / SC740EP10BPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	0.7" (18 mm)
SC740EP12T / SC740EP12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	1.2" (30 mm)
SC740EP12B / SC740EP12BPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	---
SC740EP15T / SC740EP15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	1.3" (33 mm)
SC740EP15B / SC740EP15BPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	---
SC740EP18T / SC740EP18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	---
SC740EP18B / SC740EP18BPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	1.6" (41 mm)
SC740EP24B	24" (600 mm)	18.5" (470 mm)	---	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EP24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740EP24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL

Tighe&Bond



ROCHESTER
ELEMENTARY
SCHOOL

753 Salmon Falls
Road Rochester,
NH 03868

Rochester School
District

MARK	DATE	DESCRIPTION
C	1/23/2024	REV TRG SUBMISSION
B	1/19/2024	AOT RFMI RESPONSE
A	12/12/2023	PB SUBMISSION
PROJECT NO: R5077-001		
DATE: 11/9/2023		
FILE: S5197-002_DTLS.dwg		
DRAWN BY: NHW/CML		
DESIGNED/CHECKED BY: AFS/ED		
APPROVED BY: PMC		

DETAILS

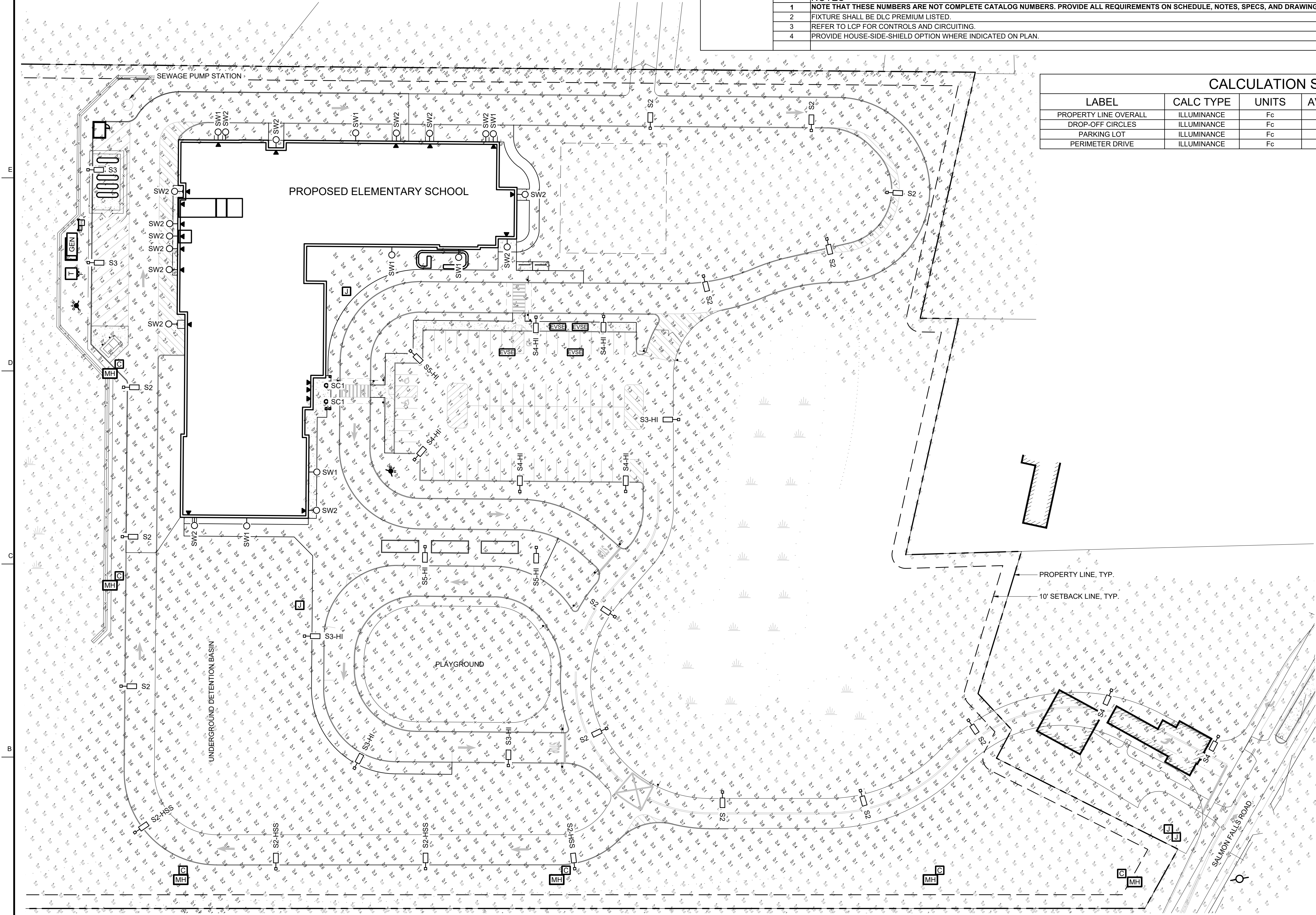
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C-510

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LUMINAIRE SCHEDULE ~ SITE (NOTE 1, 4)										
LEGEND	TYPE	DESCRIPTION	MFR	CATALOG SERIES NUMBER - SEE NOTE 1	MOUNTING	VOLTS	LAMP			NOTES
							WATTS	LUMENS	TYPE:	
	S2	SITE LIGHT AND POLE WITH DIMMING/ MOTION SENSOR	McGRAW EDISON	GLEON-SA1A-740-U-SL2	20'-0" SQUARE STEEL POLE	277	34	4,779	LED ARRAY 4000K	2,3
	S2-HSS	SITE LIGHT AND POLE WITH DIMMING/ MOTION SENSOR & HOUSE SIDE SHIELD	McGRAW EDISON	GLEON-SA1A-740-U-SL2-HSS	20'-0" SQUARE STEEL POLE	277	34	4,041	LED ARRAY 4000K	2,3
	S3	SITE LIGHT AND POLE WITH DIMMING/ MOTION SENSOR	McGRAW EDISON	GLEON-SA1A-740-U-SL3	20'-0" SQUARE STEEL POLE	277	34	4,879	LED ARRAY 4000K	2,3
	S3-HI	SITE LIGHT AND POLE WITH DIMMING/ MOTION SENSOR	McGRAW EDISON	GLEON-SA2A-740-U-SL3	20'-0" SQUARE STEEL POLE	277	66	9,536	LED ARRAY 4000K	2,3
	S4	SITE LIGHT AND POLE WITH DIMMING/ MOTION SENSOR	McGRAW EDISON	GLEON-SA1A-740-U-T4FT	20'-0" SQUARE STEEL POLE	277	34	4,909	LED ARRAY 4000K	2,3
	S4-HI	SITE LIGHT AND POLE WITH DIMMING/ MOTION SENSOR	McGRAW EDISON	GLEON-SA2A-740-U-T4FT	20'-0" SQUARE STEEL POLE	277	66	9,591	LED ARRAY 4000K	2,3
	S5-HI	SITE LIGHT AND POLE WITH DIMMING/ MOTION SENSOR	McGRAW EDISON	GLEON-SA2A-740-U-5WQ	20'-0" SQUARE STEEL POLE	277	66	10,043	LED ARRAY 4000K	2,3
	SW1	WALL MOUNTED SITE LIGHT	McGRAW EDISON	GWC-SA1A-740-U-T4W	20'-0" AFG, U.N.O.	277	34	4,942	LED ARRAY 4000K	2,3
	SW2	EXTERIOR WALL LIGHT	LUMINAIRE LED	AEL36 2B	WALL 10'-0" AFG U.N.O.	277	26	3,000	LED ARRAY 4000K	2,3
	SC1	CAN-LESS DOWNLIGHT, 12" SQUARE, SELECTABLE LUMEN OUTPUT	HALO	HLB12-LS-9FS-ED10-MW	RECESSED	277	16.7	1,306	LED ARRAY 4000K	2,3
NOTES										
1 NOTE THAT THESE NUMBERS ARE NOT COMPLETE CATALOG NUMBERS. PROVIDE ALL REQUIREMENTS ON SCHEDULE, NOTES, SPECS, AND DRAWINGS COMBINED.										
2 FIXTURE SHALL BE DLC PREMIUM LISTED.										
3 REFER TO LCP FOR CONTROLS AND CIRCUITING.										
4 PROVIDE HOUSE-SIDE-SHIELD OPTION WHERE INDICATED ON PLAN.										

CALCULATION SUMMARY						
LABEL	CALC TYPE	UNITS	AVERAGE	MAXIMUM	MINIMUM	AVG:MIN
PROPERTY LINE OVERALL	ILLUMINANCE	Fc	-	0.3	-	-
DROP-OFF CIRCLES	ILLUMINANCE	Fc	0.95	3.7	0.2	4.75
PARKING LOT	ILLUMINANCE	Fc	1.38	3.2	0.8	1.73
PERIMETER DRIVE	ILLUMINANCE	Fc	0.87	3.5	0.1	8.70



THE CARRIAGE HOUSE
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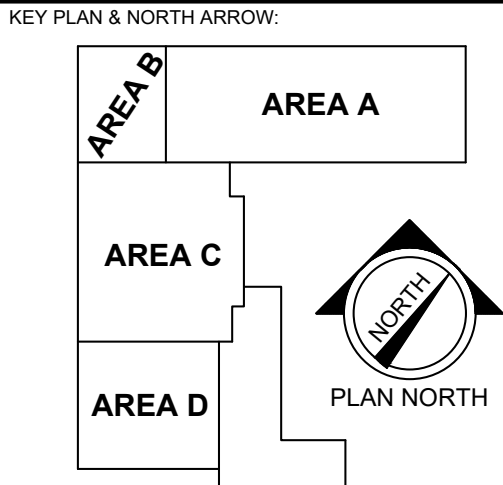
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REVISION	DATE	COMMENTS



PROJECT:
ROCHESTER ELEMENTARY
SCHOOL
SALMON FALLS ROAD,
ROCHESTER, NH

ISSUED:
SITE PLAN PERMITTING

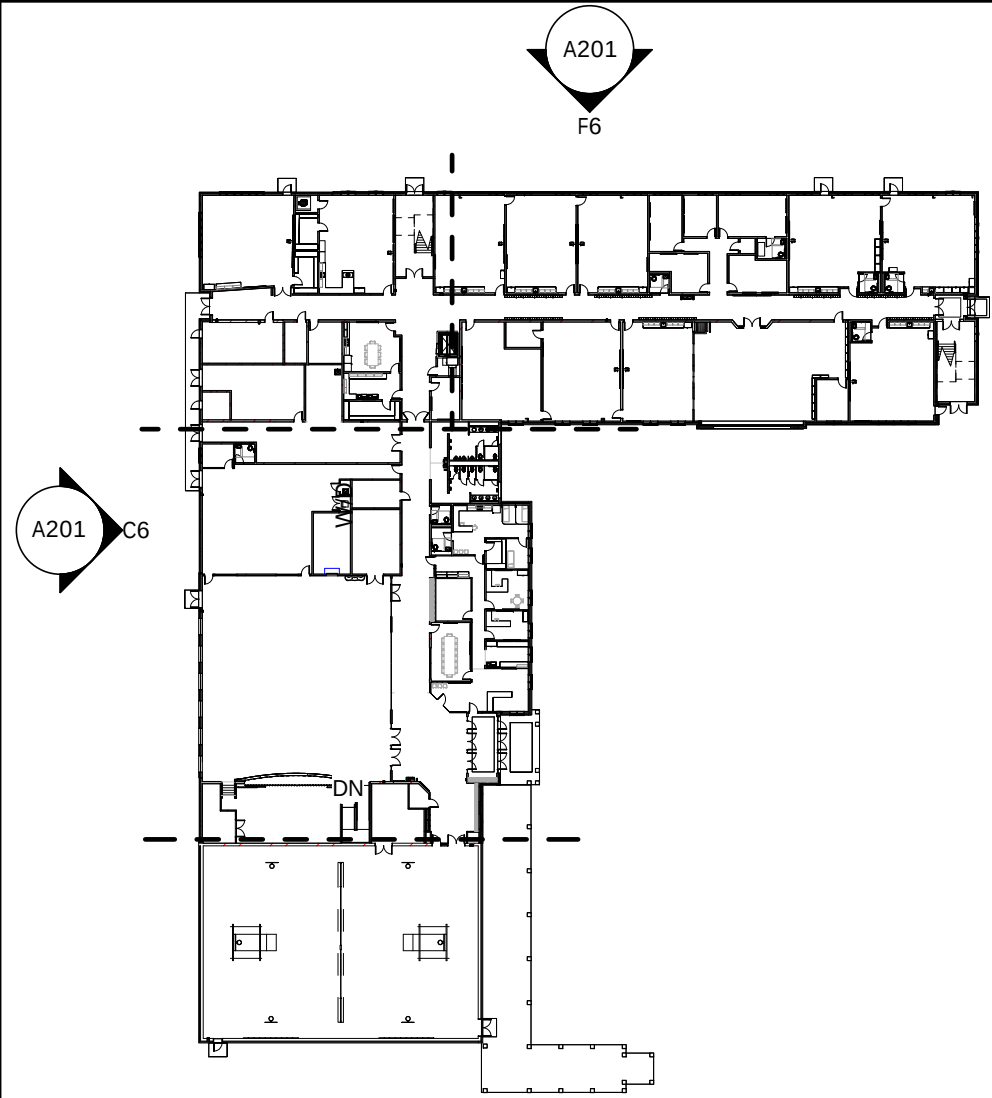
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PROJECT NO: 21-884 DATE: 1/19/2024

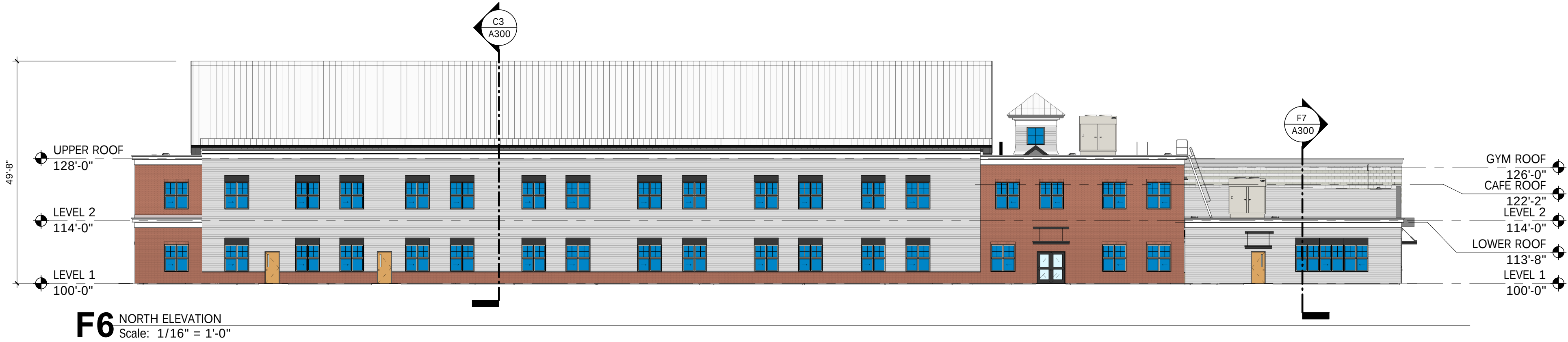
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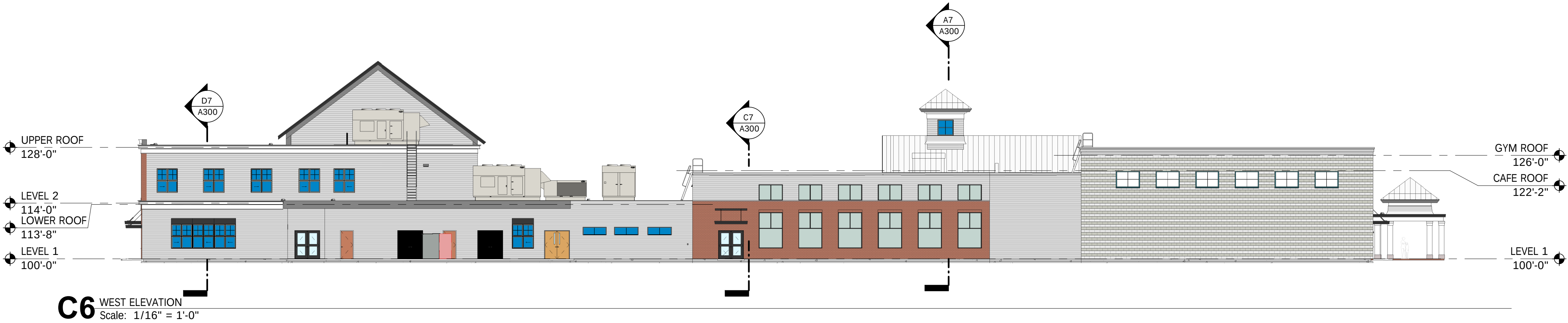
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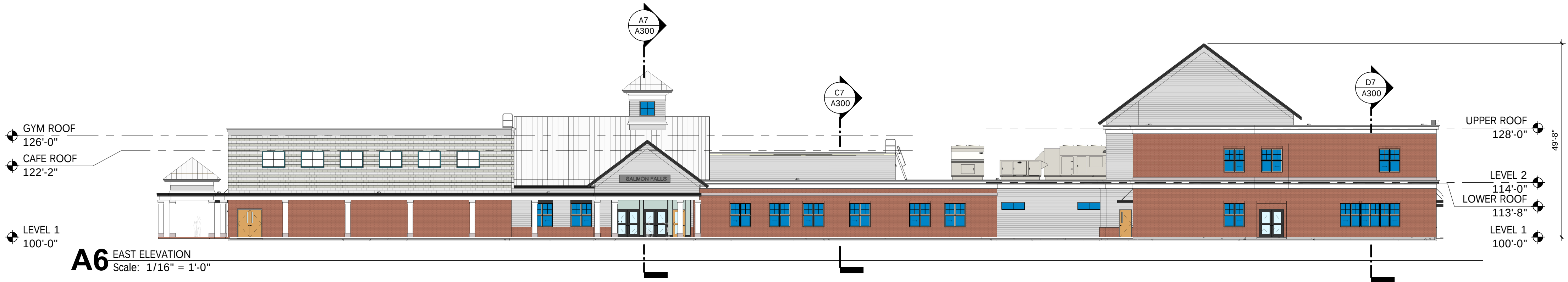
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Scale: 1/16" = 1'-0"



D6 SOUTH ELEVATION
Scale: 1/16" = 1'-0"



C6 WEST ELEVATION
Scale: 1/16" = 1'-0"



A6 EAST ELEVATION
Scale: 1/16" = 1'-0"



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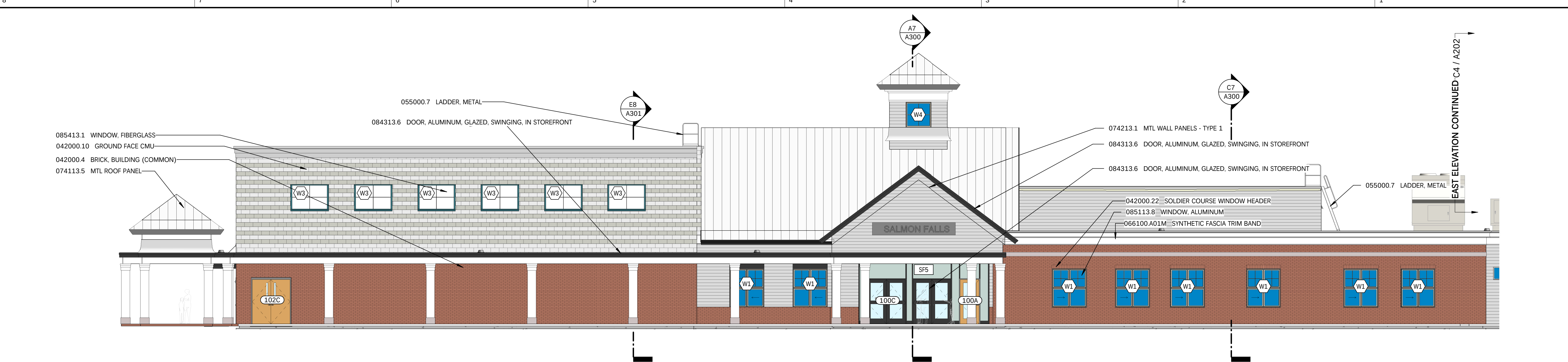
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PROJECT NO. 21-884 **DATE: 11/10/2023**

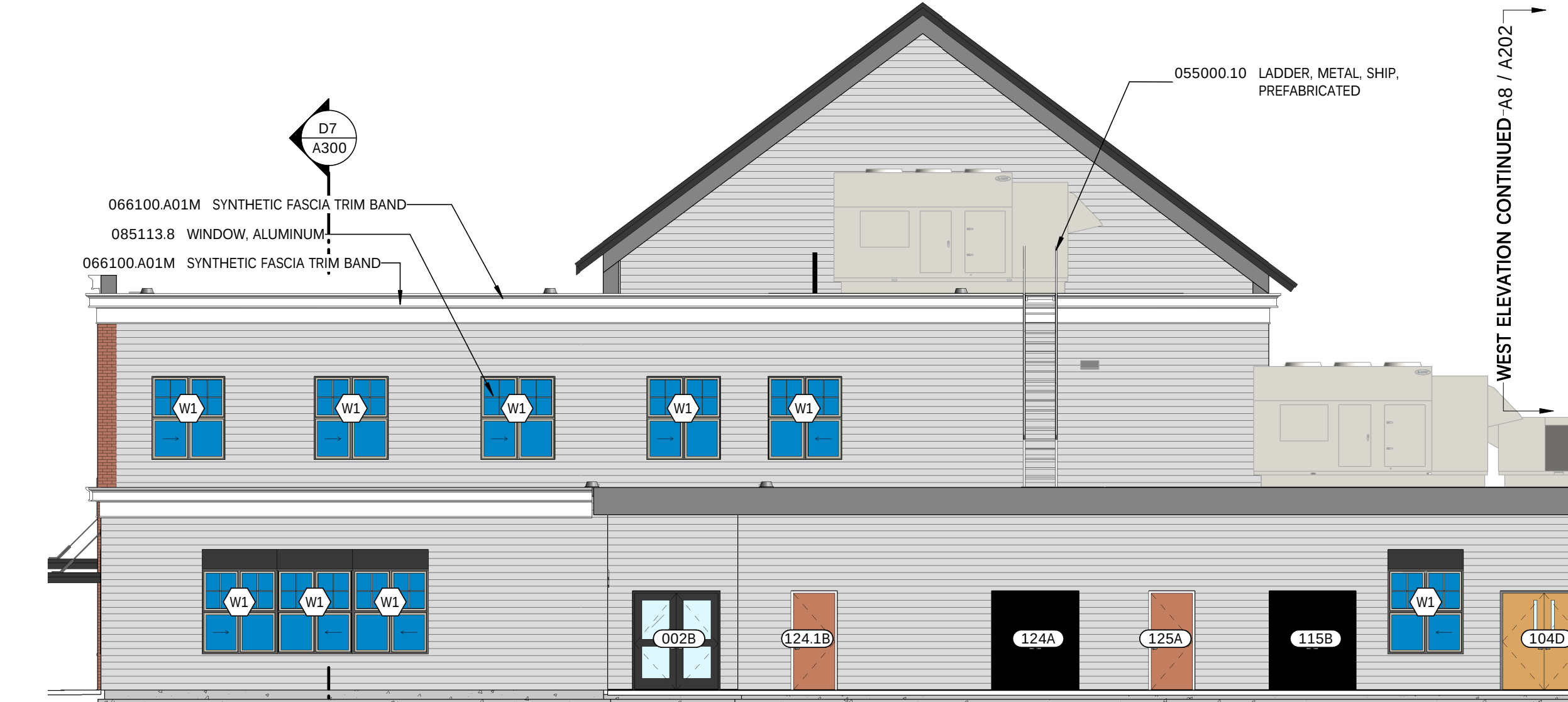
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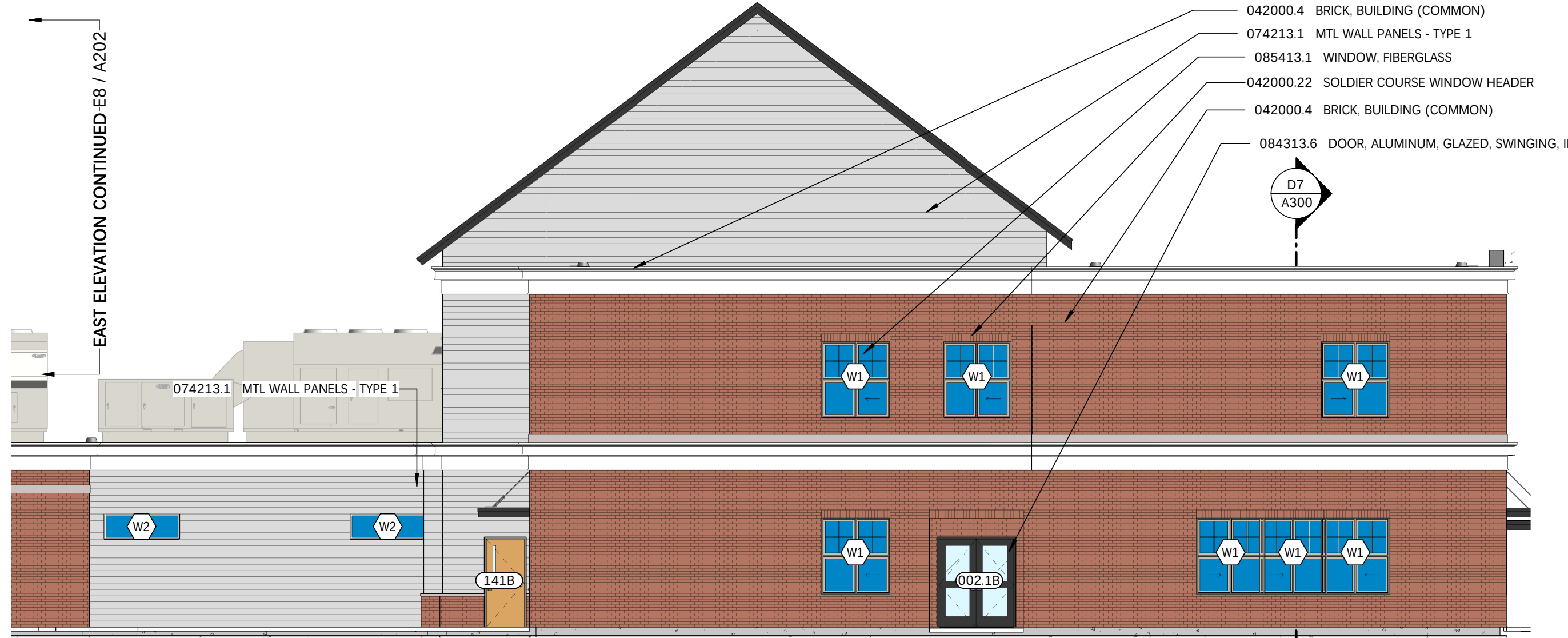
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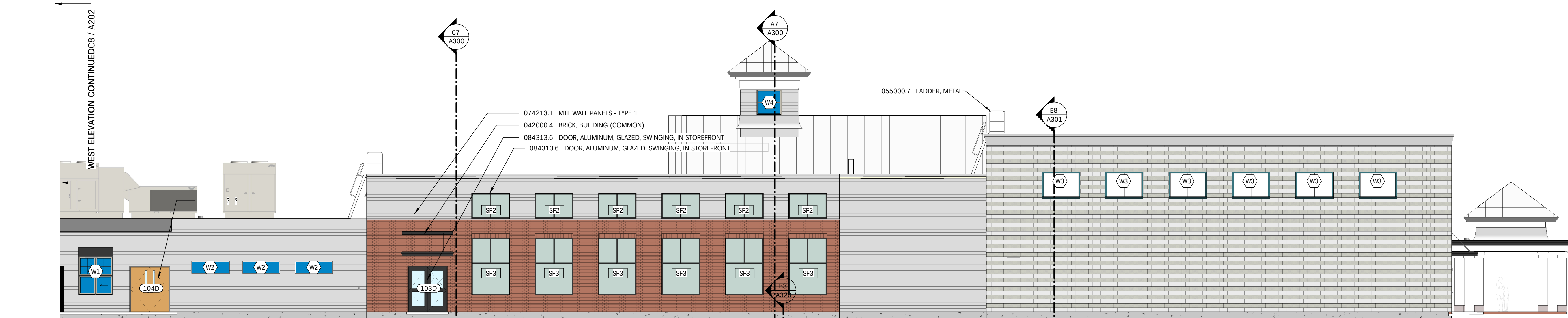
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Scale: 1/8" = 1'-0"



C8 WEST ELEVATION 1B
Scale: 1/8" = 1'-0"



C4 EAST ELEVATION 1B
Scale: 1/8" = 1'-0"



A8 WEST ELEVATION Copy 1
Scale: 1/8" = 1'-0"



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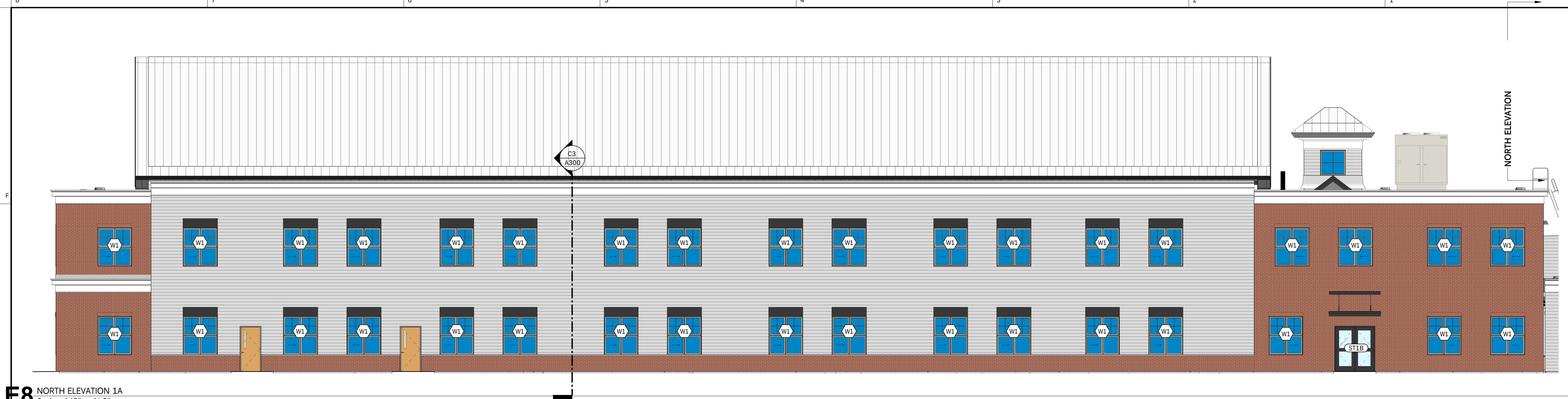
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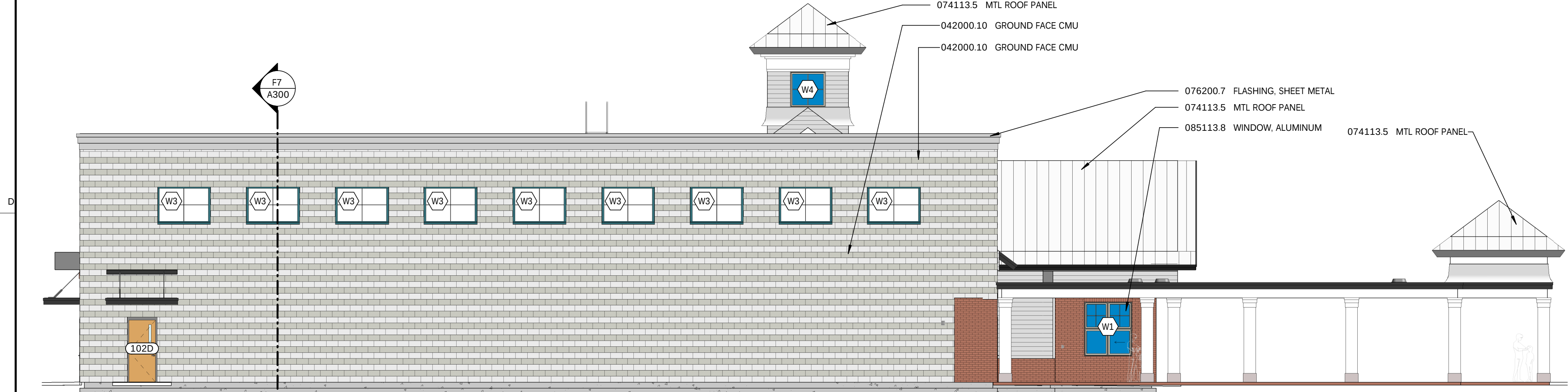
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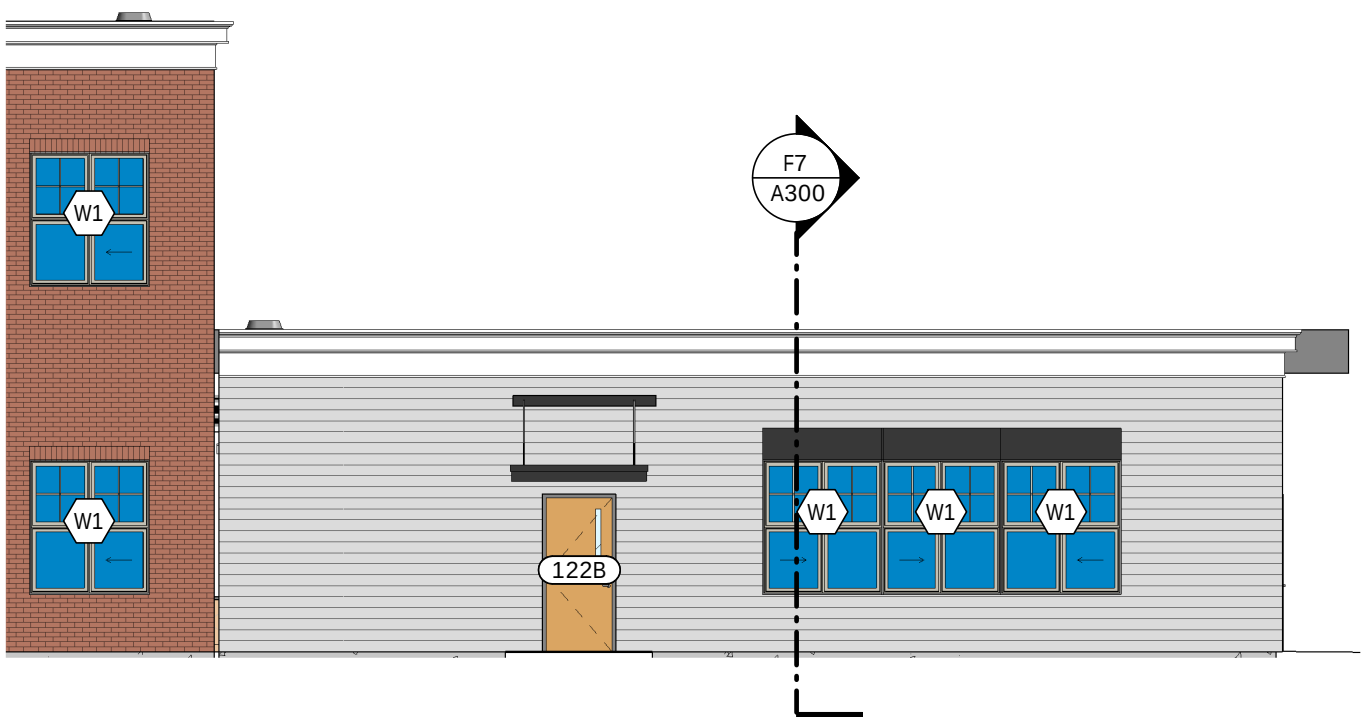
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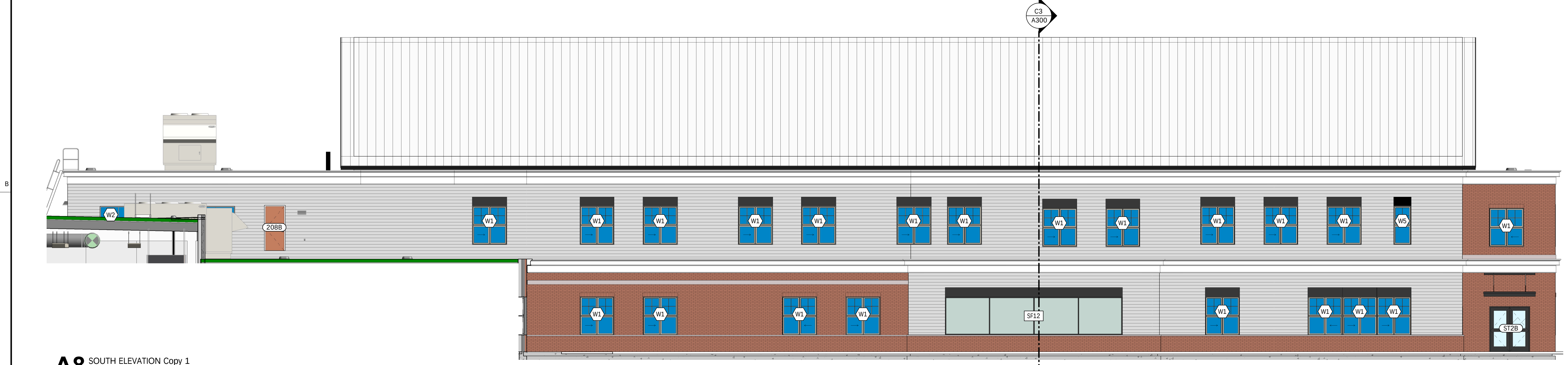
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Scale: 1/8" = 1'-0"



C8 SOUTH ELEVATION Copy 2
Scale: 1/8" = 1'-0"



2 NORTH ELEVATION 1B
Scale: 1/8" = 1'-0"



A8 SOUTH ELEVATION Copy 1
Scale: 1/8" = 1'-0"



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REVISION			DATE	COMMENTS

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SALMON FALLS ROAD
ROCHESTER, NH

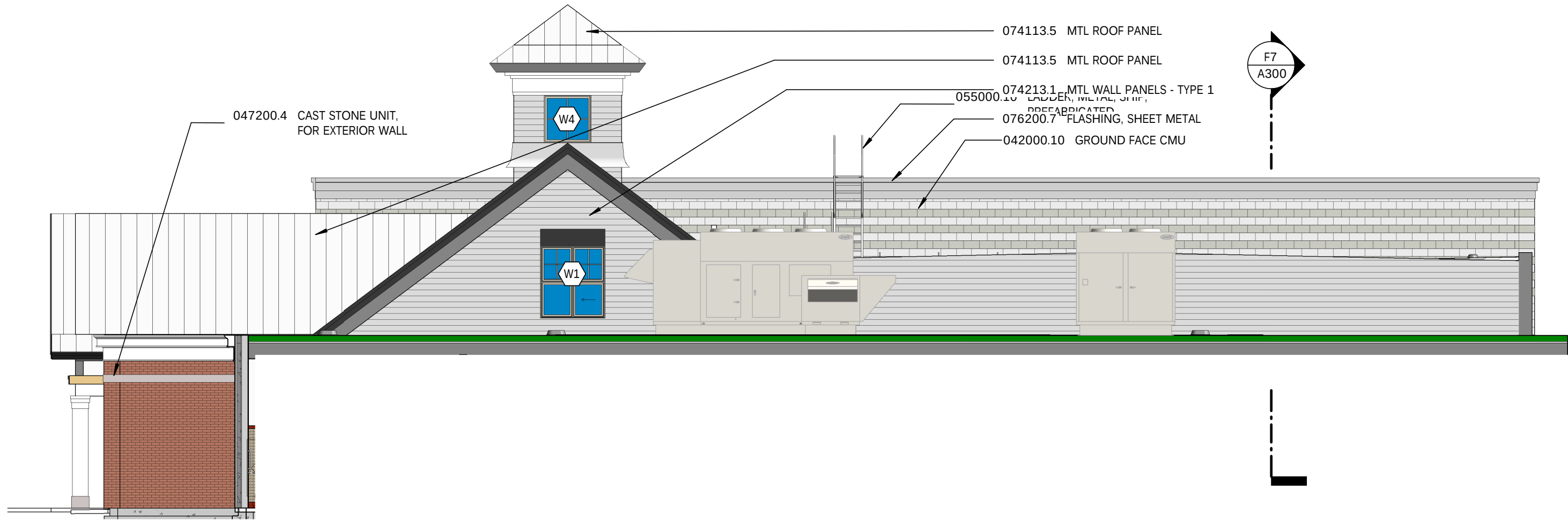
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DOCUMENTS

DRAWING TITLE:
EXTERIOR ELEVATIONS - ENLARGED

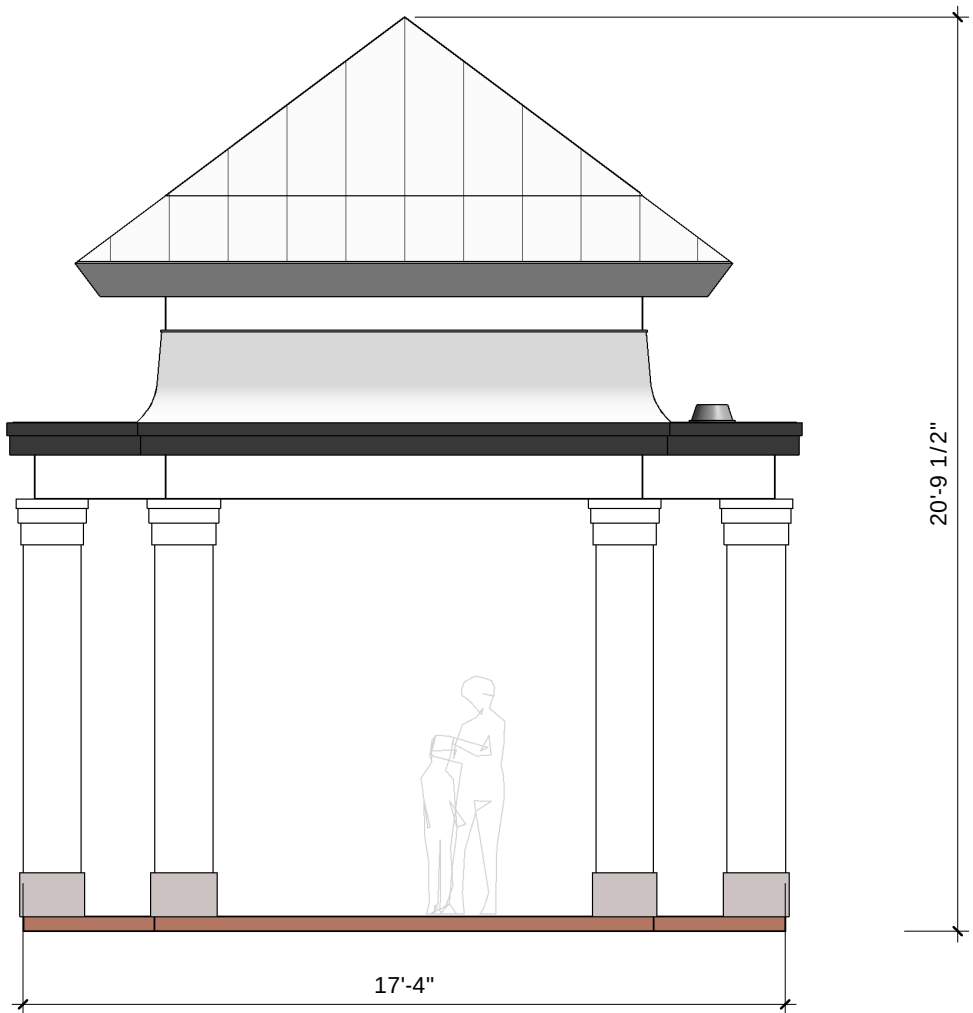
PROJECT NO. 21-884 **DATE: 11/10/2023**

SHEET NUMBER:

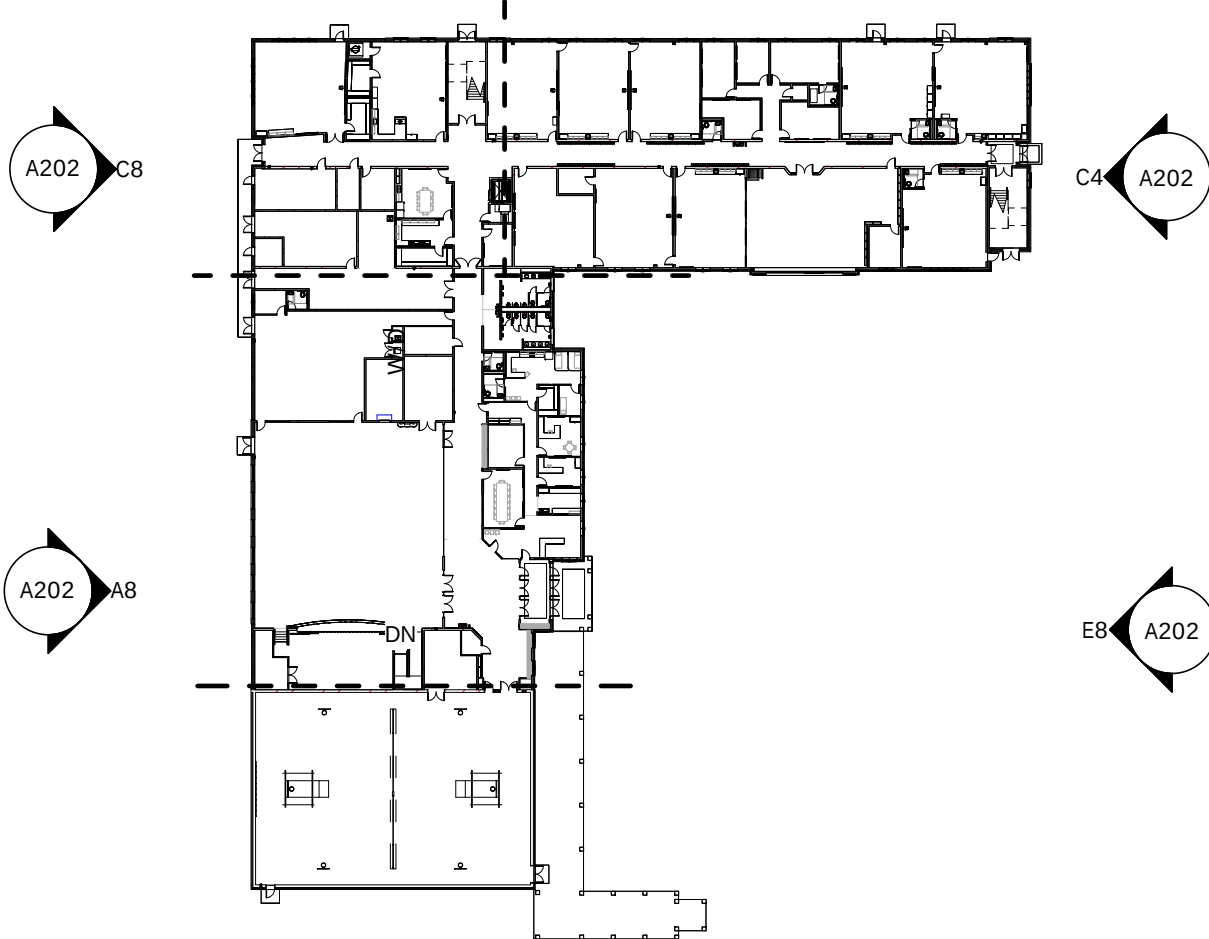
A203



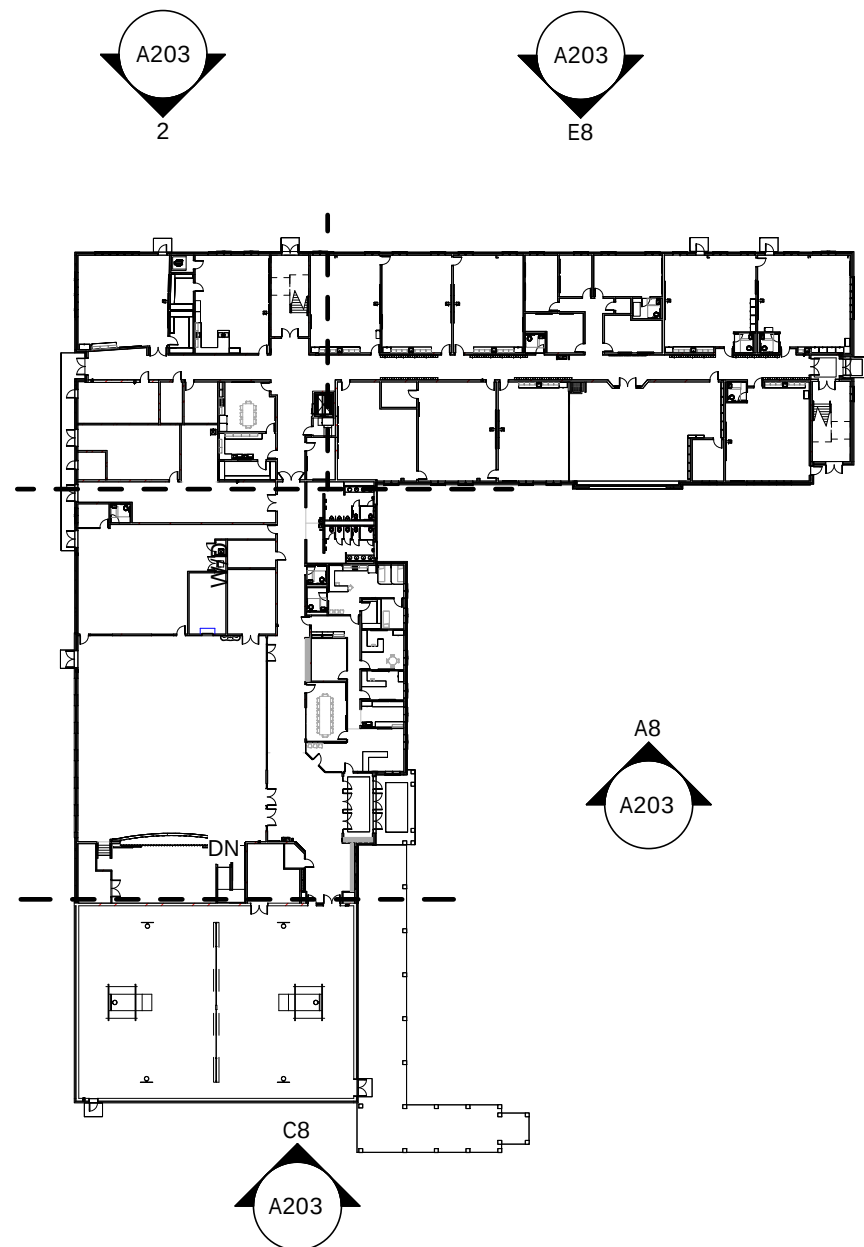
E8 NORTH ELEV - CAFE & ENTRY
Scale: 1/8" = 1'-0"



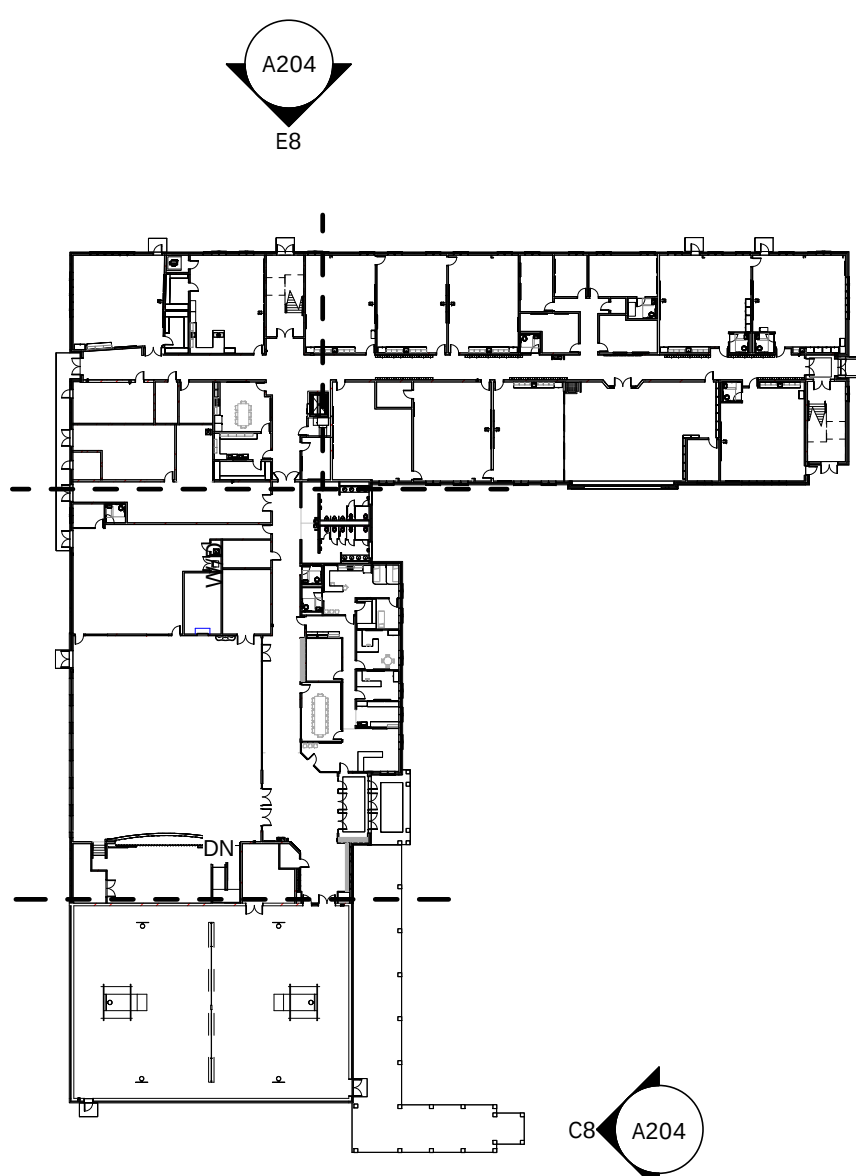
C8 CANOPY ELEVATION
Scale: 1/4" = 1'-0"



A8 ELEVATION KEY PLAN FOR SHEET A202
Scale: 1/64" = 1'-0"



A6 ELEVATION KEY PLAN FOR SHEET A203
Scale: 1/64" = 1'-0"



A4 ELEVATION KEY PLAN FOR SHEET A204
Scale: 1/64" = 1'-0"



THE CARRIAGE HOUSE
6 SOUTH PARK STREET
LEBANON, NH 03766
T: 603.448.3778

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160 VERANDA STREET
PORTLAND, ME 04103
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VITAL INFORMATION REQUIRED FOR THE
SUCCESSFUL COMPLETION OF THE
WORK IS CONTAINED IN THE PROJECT
MANUAL PREPARED FOR THIS PROJECT.

PROGRESS SET
NOT FOR CONSTRUCTION

REVISION	DATE	COMMENTS

KEY PLAN & NORTH ARROW:

PROJECT:
ROCHESTER ELEMENTARY SCHOOL
SALMON FALLS ROAD
ROCHESTER, NH

ISSUED:
DESIGN DEVELOPMENT - PRICING
DOCUMENTS

DRAWING TITLE:
EXTERIOR ELEVATIONS - ENLARGED

PROJECT NO. 21-884 **DATE: 11/10/2023**

SHEET NUMBER:

A204

BAKER SAMUEL P JR & KATHE... 749 SALMON FALLS RD ROCHESTER, NH 03868	COLLINS R D REVOCABLE TRU... COLLINS FAMILY TRUST 90 WHITEHALL RD ROCHESTER, NH 03868	
WAYMAN RAYMOND L KIMPTON ELIZABETH A 55 IDA CIR ROCHESTER, NH 03868	PERRY MARK T 759 SALMON FALLS RD ROCHESTER, NH 03868-5922	
VARNEY ERIC M 59 IDA CIR ROCHESTER, NH 03868	PERRY DENNIS W 767 SALMON FALLS RD ROCHESTER, NH 03868-5922	
MURTAGH FAMILY TRUST % MURTAGH TAMMY R & THOMAS... 71 IDA CIR ROCHESTER, NH 03868	WALSH ROBERT J BURNHAM CHARLES W 51 IDA CIR ROCHESTER, NH 03868	
J&L TERRA HOLDINGS INC 79 EXETER RD N HAMPTON, NH 03862-2002	CITY OF ROCHESTER 31 WAKEFIELD ST ROCHESTER, NH 03867	
DAUDELIN LEE 727 SALMON FALLS RD ROCHESTER, NH 03868-5922	DICARLO ROBERT J 737 SALMON FALLS RD ROCHESTER, NH 03868-5922	
JERRAM COLBY CHRISTOPHE... 721 SALMON FALLS RD ROCHESTER, NH 03868		
GULLISON JENNIFER 65 IDA CIR ROCHESTER, NH 03867		
TARA ESTATES MHC LLC 1910 TERRACINA DR SACRAMENTO, CA 95834		
TOWLE FAMILY REVOCABLE TR... TOWLE ROBERT B & ANDREA ... 750 SALMON FALLS RD ROCHESTER, NH 03868		