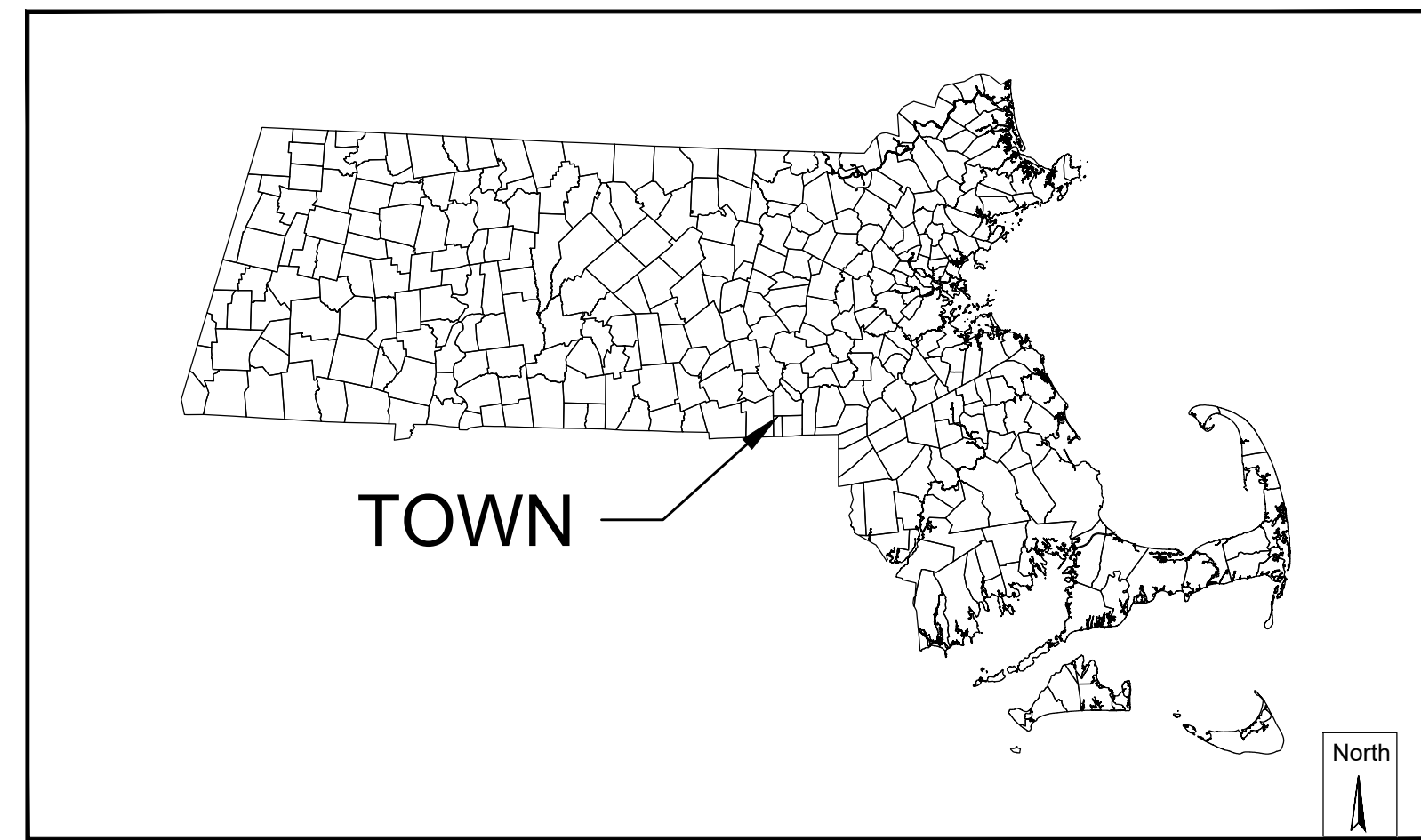
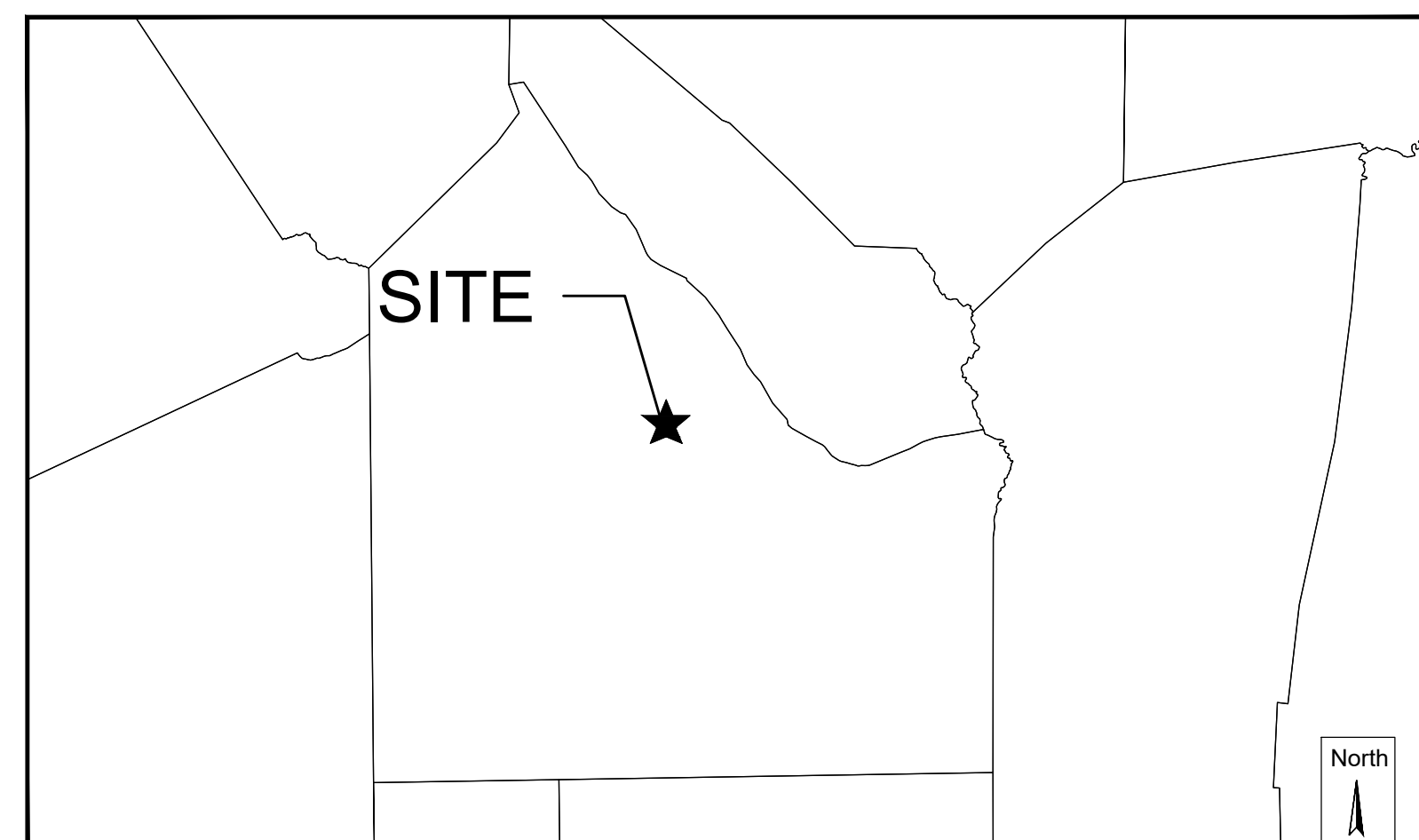
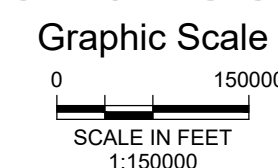


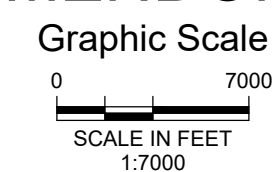
# TOWN HALL CAMPUS RESTORATION PERMITTING PLANS MENDON, MASSACHUSETTS APRIL 2022



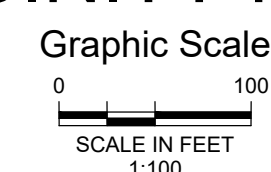
MASSACHUSETTS



MENDON



VICINITY MAP



Sheet List Table	
Sheet Number	Sheet Title
1	COVER
2	NOTES
3	EXISTING CONDITIONS PLAN
4	SITE PREPARATION PLAN
5	SITE PLAN
6	GRADING PLAN
7	STORMWATER PLANTER DETAIL
8	UTILITY PLAN
9	CONSTRUCTION DETAILS 1
10	CONSTRUCTION DETAILS 2
11	LANDSCAPE PLAN
12	PLANTING DETAILS

**GENERAL NOTES:**

- THIS PLAN SET IS FOR PERMITTING REVIEW ONLY AND NOT FOR CONSTRUCTION.
- THE EXISTING CONDITIONS SHOWN ON THIS PLAN ARE FROM PLANS ENTITLED: "SITE CONSTRUCTION RECORD" PREPARED BY ANDREWS SURVEY & ENGINEERING, INC. DATED OCTOBER 6, 2020 AND SUPPLEMENTED BY THE HORSLEY WITTEN GROUP, INC. IN DECEMBER 2021, AS WELL AS:
  - "FORCE MAIN SEWER AS-BUILT" BY CULLINAN ENGINEERING DATED JULY 5, 2006
  - "FORCE MAIN SEWER DETAILS" BY CULLINAN ENGINEERING DATED MARCH 16, 2005
  - "EXISTING CONDITIONS SITE PLAN" BY SHEA ENGINEERING AND SURVEYING INC. DATED AUGUST 1, 2001.
- SITE INFORMATION:  
ADDRESS: 20 MAIN STREET  
ZONING DISTRICT: RURAL RESIDENTIAL
- THE PROPERTY IS LOCATED WITHIN F.I.R.M. ZONE X AS SHOWN ON COMMUNITY PANEL NO. 25027C1031E DATED JULY 4, 2011.

Plan Set:  
**TOWN HALL CAMPUS RESTORATION  
PERMITTING PLANS  
MENDON, MASSACHUSETTS**

Prepared For:  
Town of Mendon  
12 Main Street  
Mendon, MA  
(508) 473-2312

Prepared By:  
**Horsley Witten Group, Inc.**  
*Sustainable Environmental Solutions*  
[www.horsleywitten.com](http://www.horsleywitten.com)

Headquarters: 90 Route 6A, Sandwich, MA 02563  
(508) 833-6600 voice  
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294 Washington Street, Suite 801, Boston, MA 02108  
(857) 263-8193 voice  
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(401) 272-1717 voice  
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113 Water Street, R2, Exeter, NH 03833  
(603) 658-1660

Registration:	Revisions	Project Number:
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		Sheet Number:
		1 of 12
		Drawing Number:
		C - 1

PERMIT SET  
NOT FOR CONSTRUCTION

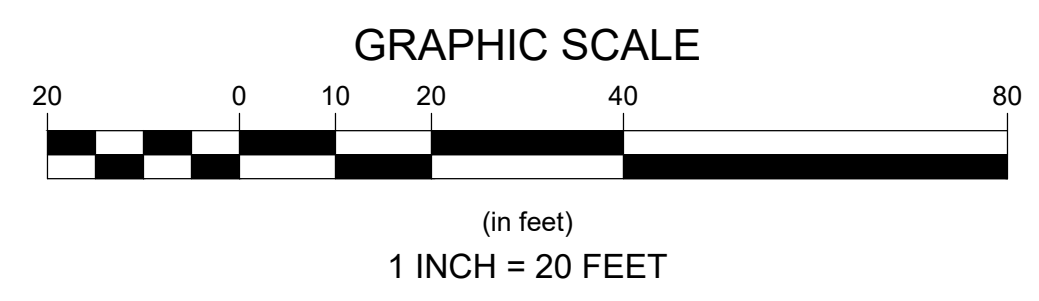
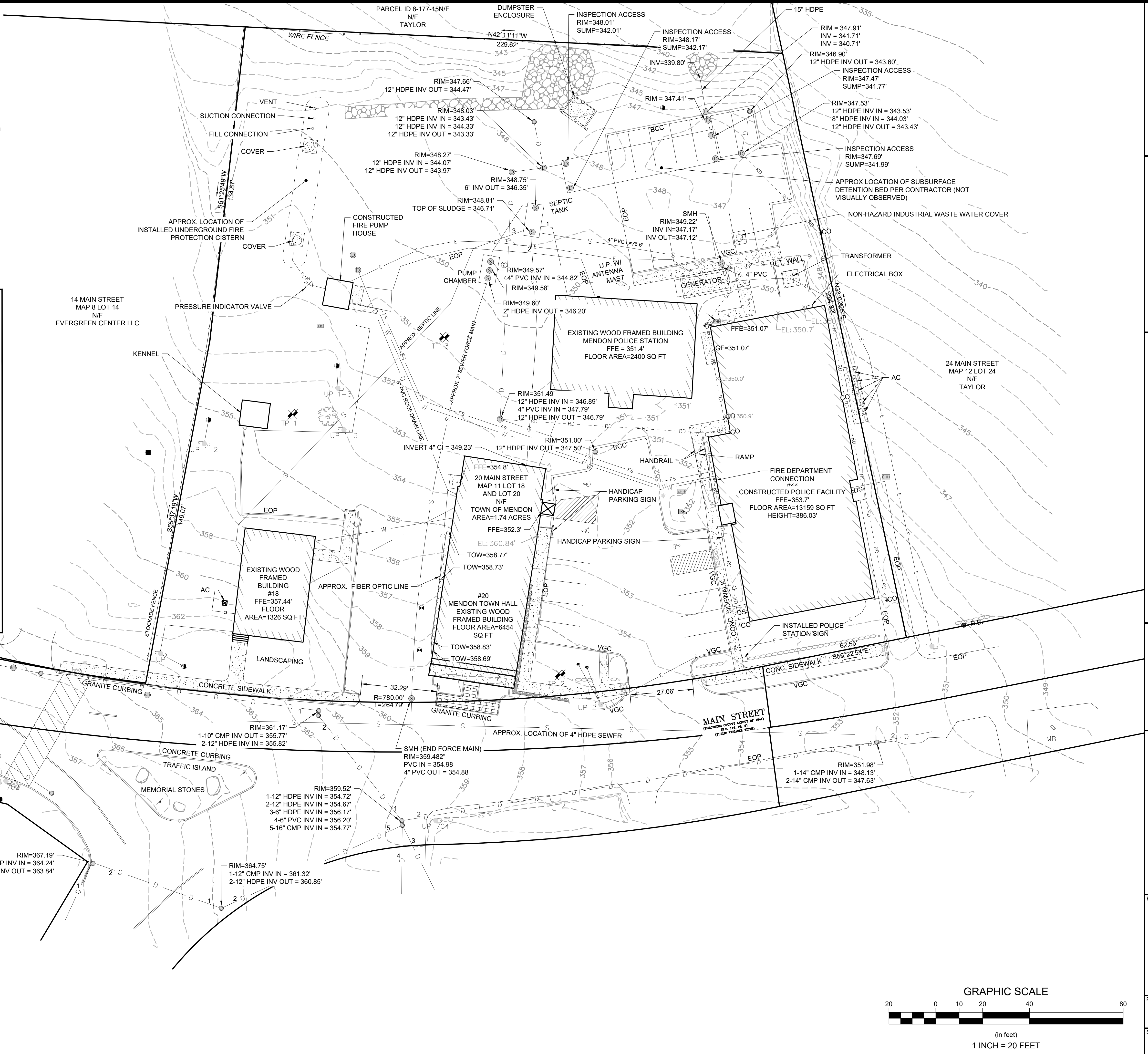


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- SURVEY NOTES**
- THE TOPOGRAPHY AND EXISTING SITE CONDITIONS DEPICTED HEREON ARE THE RESULT OF AN ON THE GROUND FIELD SURVEY CONDUCTED BY THE HORSLEY WITTEN GROUP, INC. DECEMBER 15, 2021.
  - HORIZONTAL DATUM IS MASS STATE PLANE COORDINATE SYSTEM. DATUM ESTABLISHED BY GPS RTK.
  - THE ELEVATIONS DEPICTED HEREON WERE BASED ON THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.
  - THE PROPERTY LINES AND RIGHTS OF WAYS DEPICTED HAVE BEEN ESTABLISHED BY FIELD SURVEY AND DEEDS AND PLANS OF RECORD.
  - THIS PLAN DOES NOT SHOW EXISTING EASEMENTS. HOWEVER, THIS DOES NOT CONSTITUTE A GUARANTEE THAT THIS PLAN IS A FULL LIST OF EASEMENTS EITHER RECORD OR UNWRITTEN.
  - THE ACCURACY OF MEASURED PIPE INVERTS AND PIPE SIZES IS SUBJECT TO FIELD CONDITIONS, THE ABILITY TO MAKE VISUAL OBSERVATIONS, DIRECT ACCESS TO THE VARIOUS ELEMENTS AND OTHER CONDITIONS.
  - THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF VARIOUS UTILITY COMPANIES, AND WHEREVER POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD PRIOR TO THE START OF ANY CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY IN THE TOWN OF MENDON, AND "DIGSAFE" (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK IN PREVIOUSLY UNALTERED AREAS TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
  - UTILITY PROVIDERS: ELECTRIC-NATIONAL GRID TELEPHONE-VERIZON SEWER-TOWN OF MENDON WATER-MENDON WATER DEPT. GAS-EVERSOURCE
  - THE PROPERTY IS LOCATED WITHIN F.I.R.M ZONE X AS SHOWN ON COMMUNITY PANEL NO. 25027C103E DATED JULY 4, 2011.
  - REFERENCE PLANS:
    - "SITE CONSTRUCTION RECORD" BY ANDREWS SURVEY & ENGINEERING INC. DATED OCTOBER 10, 2020
    - "FORCE MAIN SEWER AS-BUILT" BY CULLINAN ENGINEERING DATED JULY 5, 2006
    - "FORCE MAIN SEWER DETAILS" BY CULLINAN ENGINEERING DATED MARCH 16, 2005
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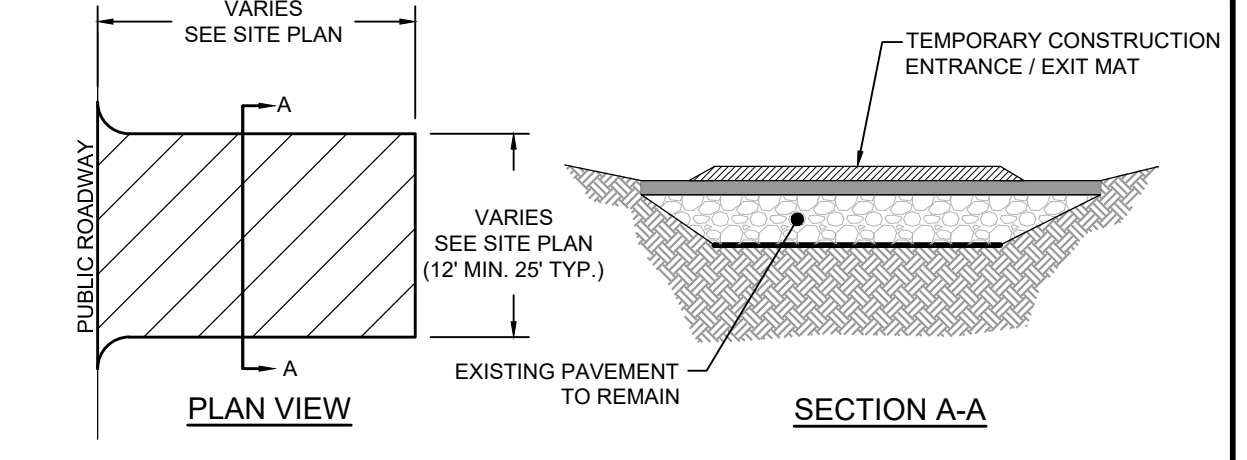
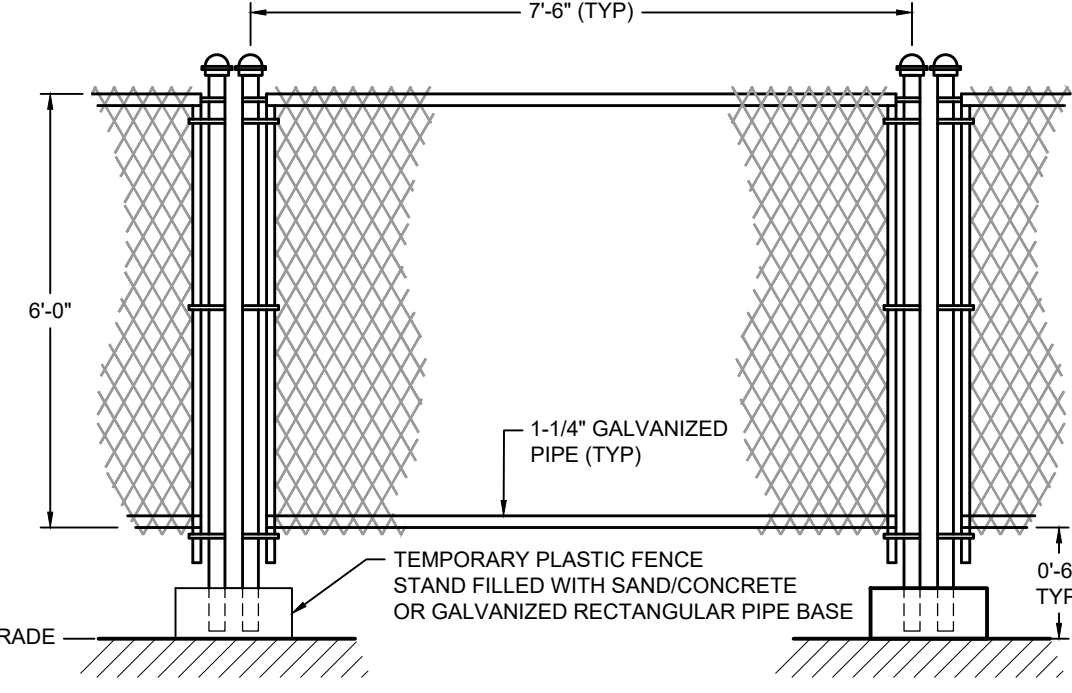
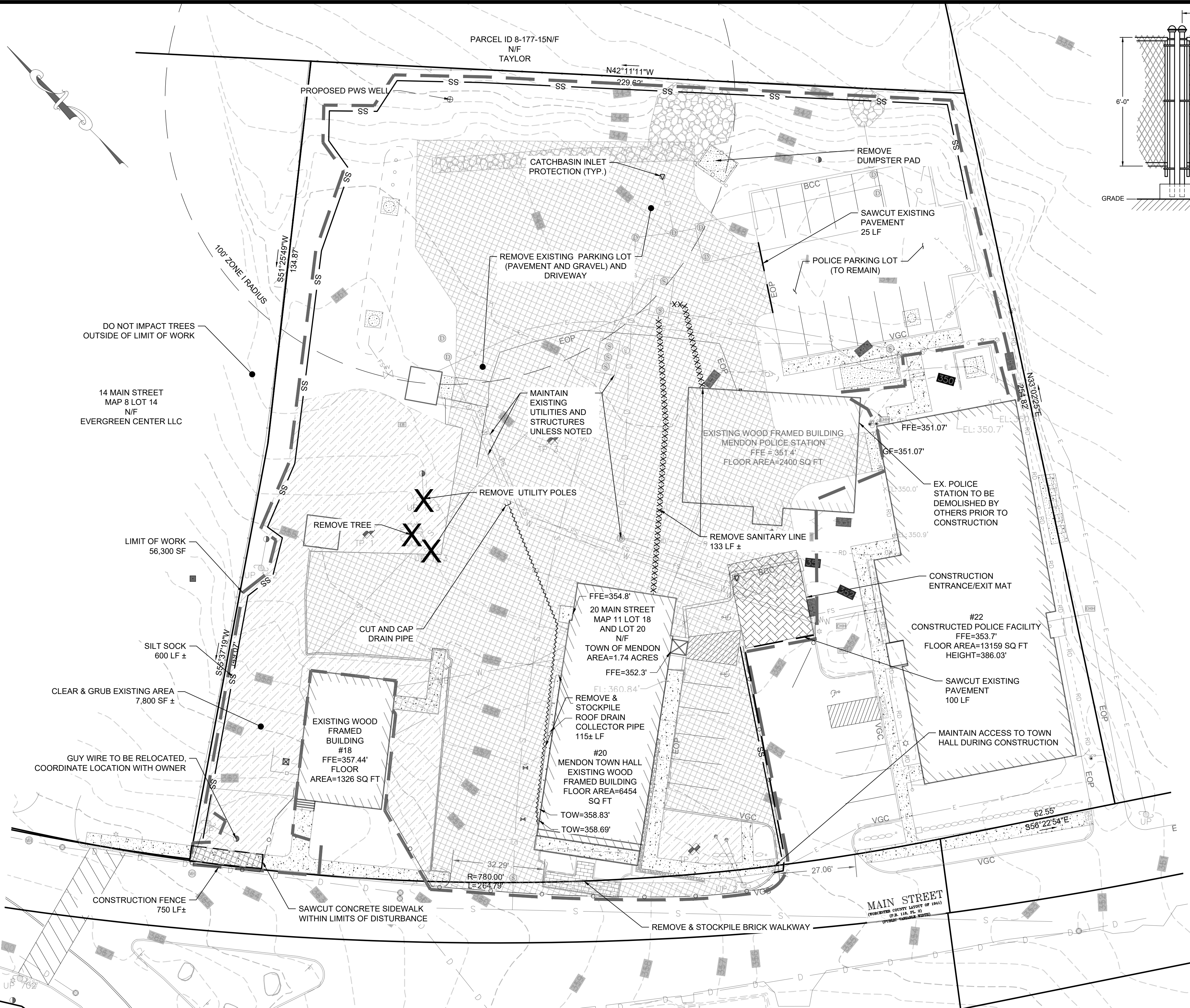
**EXISTING LEGEND:**

GENERAL	SYMBOLS
BUILDING CONTOUR - MINOR CONTOUR - MAJOR CURB EDGE OF PAVEMENT FENCE - CHAIN LINK FENCE - CONCRETE POST AND CHAIN BRICK WALK CONCRETE SIDEWALK WALL - RETAINING  <th>UTILITIES</th>	UTILITIES
DRAIN PIPE GAS LINE OVERHEAD WIRE SANITARY SEWER SEWER FORCE MAIN UNDERGROUND E/T/C UNDERGROUND ELEC. CABLE LINE TELEPHONE LINE WATER LINE	ELECTRIC HANDHOLE SEWER MANHOLE ELECTRIC MANHOLE EXISTING TREE MANHOLE DRAIN MANHOLE CATCHBASIN WATER VALVE ELECTRIC METER GAS VALVE UTILITY BOX HYDRANT UTILITY POLE GUY LIGHT POST MONITORING WELL WATER METER SIGN

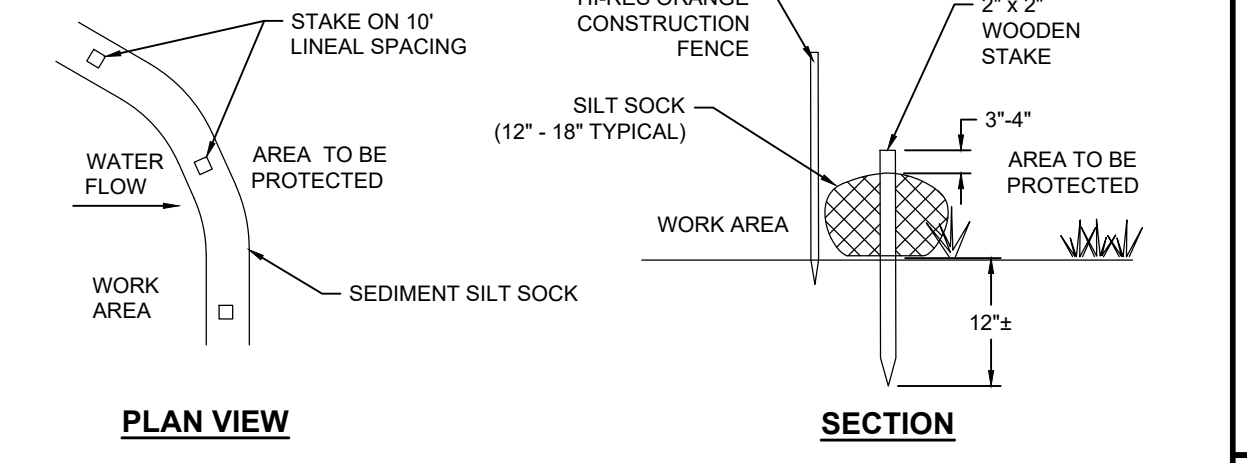


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<p><b>Horsley Witten Group, Inc.</b> Sustainable Environmental Solutions 90 Route 6A Sandwich, MA 02563 508-833-6600 voice 508-833-3150 fax</p>																																													
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<p>Prepared For: <b>Town of Mendon</b> 12 Main Street Mendon, MA Phone: (508) 473-2312 Fax: .....</p>	<p>Survey Provided By: <b>Horsley Witten Group, Inc.</b> 90 Route 6A Sandwich, MA 02563 Phone: (508) 833-6600 Fax: (508) 833-3150 Dated: DECEMBER 2021</p>																																												
<p>Registration:</p>	<p><b>DRAFT NOT FOR CONSTRUCTION</b></p>																																												
<p>Project Number: 21127</p>	<p>Sheet: 3 of 12</p>																																												
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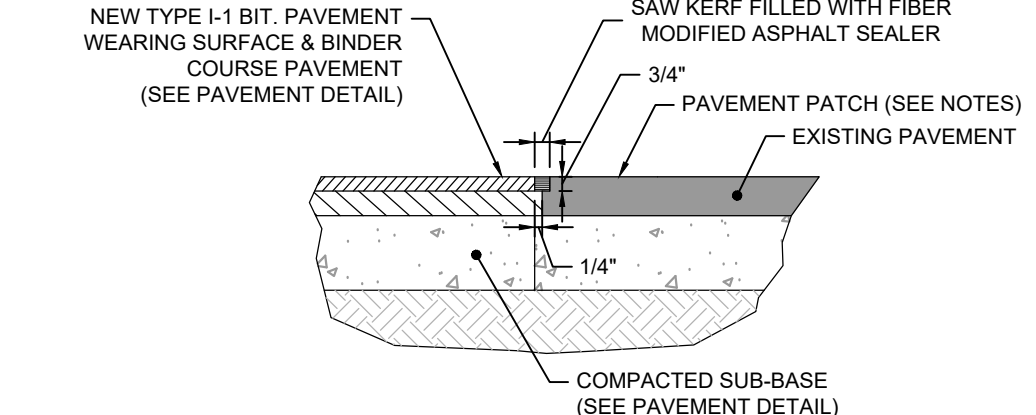
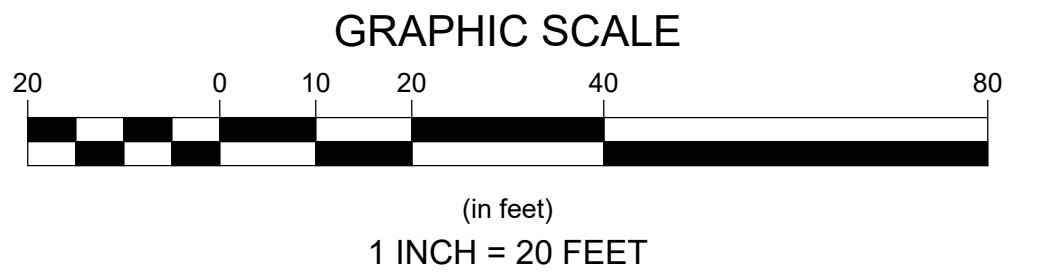
- NOTE:
- MATS ARE DESIGNED TO SHAKE LOOSE DEBRIS AND DIRT FROM TRUCK TIRES BEFORE TRUCKS LEAVE THE JOBSITE.
  - MANUFACTURERS/PRODUCTS OR APPROVED EQUIVALENT:  
YAKMAT: OUTRAK MAT  
PRESTO GEOSYSTEMS: GEOTERRA  
GME-SHIELDS: EXIT GRID
  - CONSTRUCTION ENTRANCE(S) TO REMAIN UNTIL INSTALLATION OF PAVEMENT SUB-BASE IS TO BEGIN.
  - SEE SITE PLAN FOR LOCATION & ACTUAL DIMENSIONS.



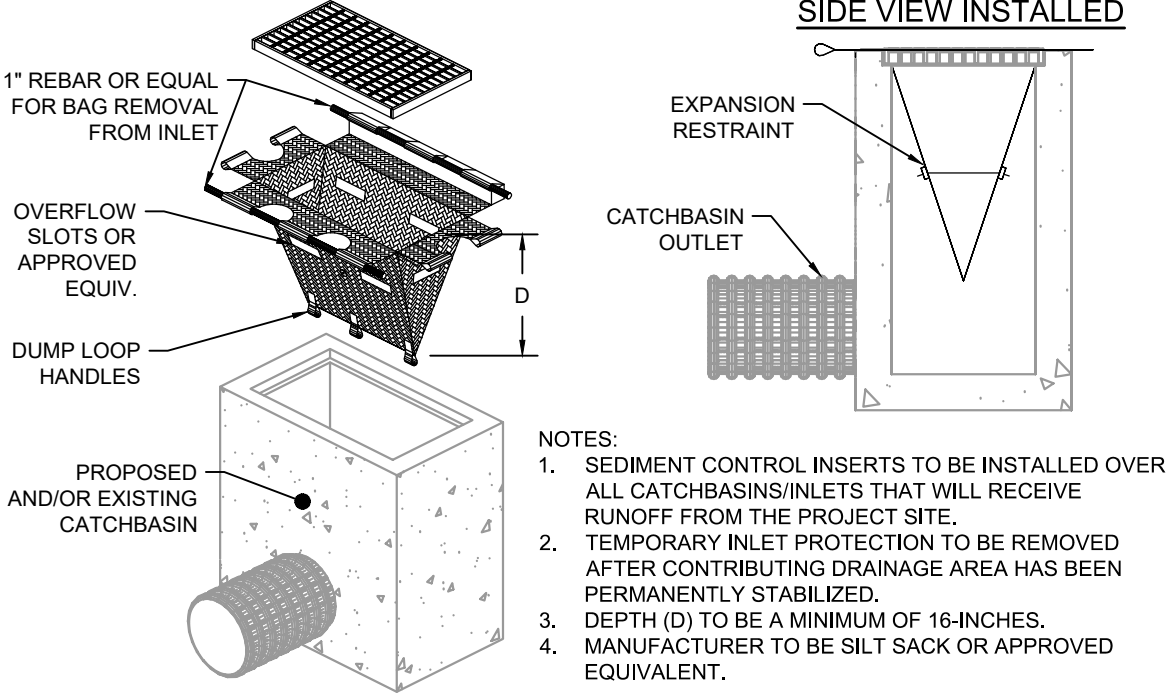
- NOTE:
- SILT SOCK MANUFACTURER TO BE SILT SOXX OR ENGINEER APPROVED EQUAL.
  - ALL MATERIAL TO MEET MANUFACTURER'S SPECIFICATIONS.
  - SEDIMENT SILT SOCK TO BE FILLED WITH LEAF COMPOST AND/OR WOODY MULCH PER MANUFACTURER'S REQUIREMENTS.
  - FOLLOWING CONSTRUCTION AND SITE STABILIZATION, COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE, AS APPROVED BY THE ENGINEER.

PROPOSED LEGEND:

GENERAL	SYMBOLS
	BERM
	BERM CUT
	CENTERLINE
	CONTOUR - MINOR
	CONTOUR - MAJOR
	CURB
	CURB CUT
	EDGE OF PAVEMENT
	FENCE - CHAIN LINK
	FENCE - WIRE
	FENCE - WOOD
	LIMIT OF WORK
	PATHWAY
	STONE
	SIDEWALK
	STORMWATER AREA
	CONCRETE
	CROSSWALK/PAVEMENT STRIPING
	DRAIN PIPE
	SANITARY SEWER
	UNDERGROUND E/T/C
	UNDERGROUND ELEC.
	WATER LINE
	SILT FENCE
	SILT SOCK
	SPOT GRADE
	DRAIN MANHOLE
	CATCHBASIN
	INLET PROTECTION
	CLEAN OUT
	PIPE STUB
	LIGHT POST
	WATER WELL
	TEST PIT
	ROCK
	SIGN
	BENCH
	PICNIC TABLE
	BIKE RACK
	HANDICAP SYMBOL
	NUMBER OF PARKING SPACES
	VEHICLE CIRCULATION



- NOTES:
- EXISTING BITUMINOUS PAVEMENT SHALL BE REMOVED TO A CLEAN STRAIGHT EDGE VIA SAW CUTTING. THE SAW CUT SHALL BE COMPLETED PERPENDICULAR TO THE ROADWAY/SIDEWALK.
  - PRIOR TO INSTALLING THE WEARING COURSE, THE EXISTING VERTICAL PAVEMENT SURFACE SHALL BE SWEEPED COMPLETELY CLEAN.
  - AFTER PROPER COMPACTION (SEE PAVEMENT DETAIL) SAW CUT NEW PAVEMENT ABUTMENT 3/4\"/>



- NOTES:
- SEDIMENT CONTROL INSERTS TO BE INSTALLED OVER ALL CATCHBASIN/INLETS THAT WILL RECEIVE RUNOFF FROM THE PROJECT SITE.
  - TEMPORARY INLET PROTECTION TO BE REMOVED AFTER CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.
  - DEPTH (D) TO BE A MINIMUM OF 18-INCHES.
  - MANUFACTURER TO BE SILT SACK OR APPROVED EQUIVALENT.

Revisions	Date	By	Appr.	Description

Horsley Witten Group, Inc.  
Sustainable Environmental Solutions  
www.horsleywitten.com  
90 Route 6A  
Sandwich, MA 02563  
508-833-6600 voice  
508-833-3150 fax

Checked By: RAC  
Drawn By: EVH  
Designed By: EVH  
Date: APRIL 2022

TOWN HALL CAMPUS RESTORATION  
PERMITTING PLANS  
MENDON, MASSACHUSETTS

Plan Set:  
Plan Title: SITE PREPARATION PLAN

Prepared For:  
Town of Mendon  
12 Main Street  
Mendon, MA  
Phone: (508) 473-2312  
Fax: ---

Survey Provided By:  
Horsley Witten Group, Inc.  
90 Route 6A  
Sandwich, MA 02563  
Phone: (508) 833-6600  
Fax: (508) 833-3150  
Date: DECEMBER 2021

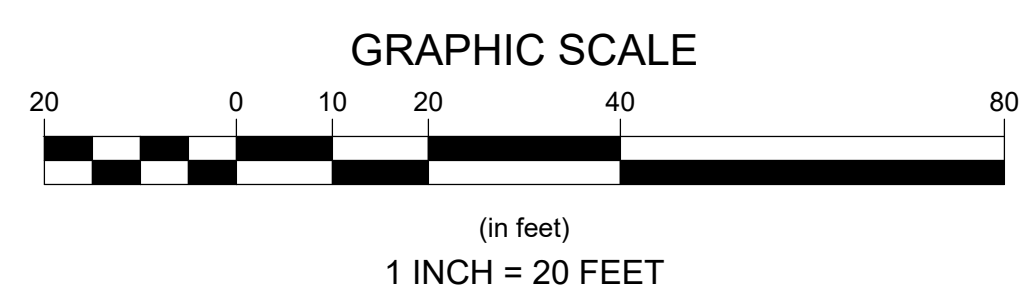
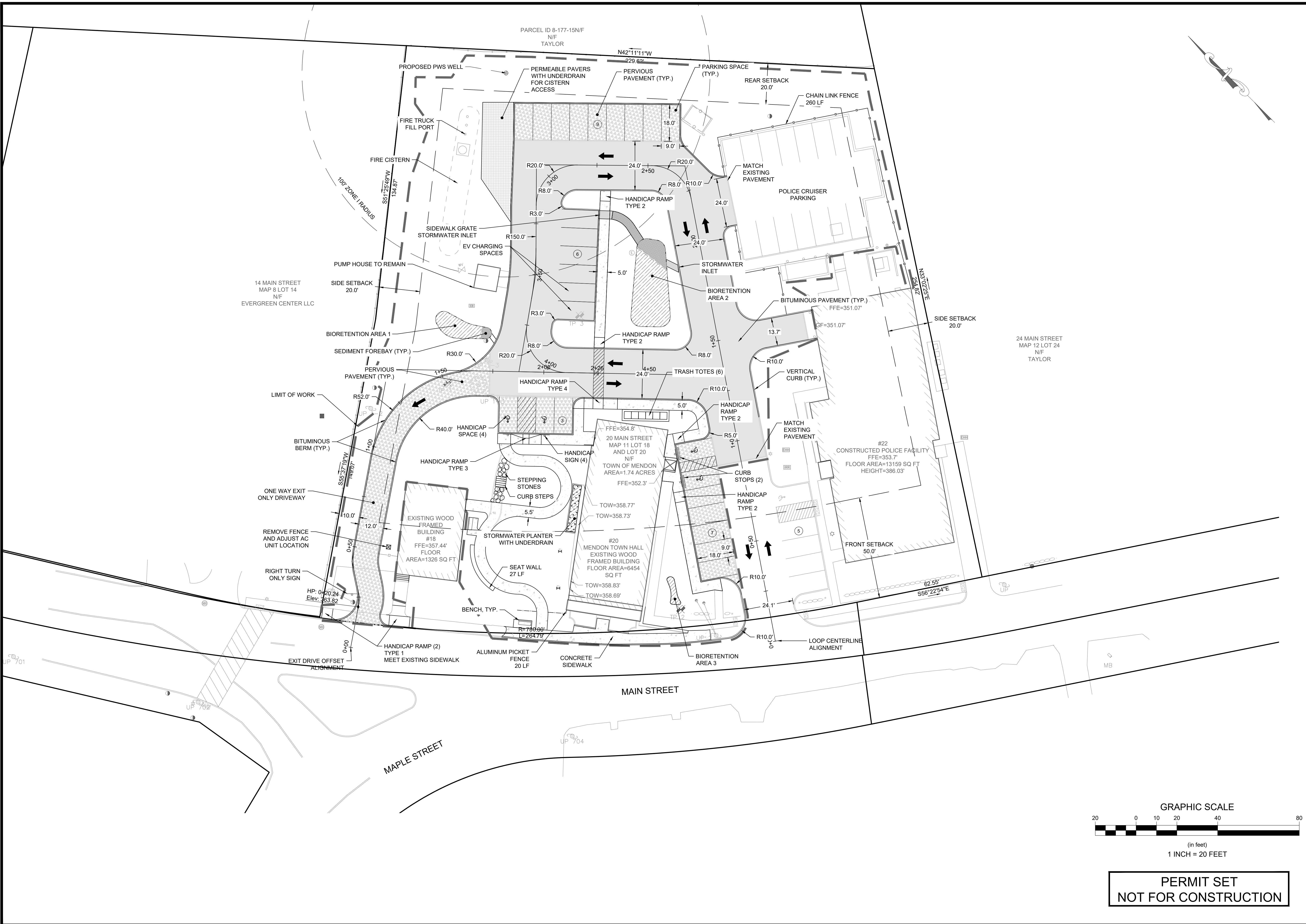
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Project Number: 21127  
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Revisions	Date	By	Appr.	Description

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www.horsleywitten.com  
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Sandwich, MA 02563  
508-833-6600 voice  
508-833-3150 fax

Drawn By: EWH  
Checked By: RAC  
Designed By: EWH  
Date: APRIL 2022

**TOWN HALL CAMPUS RESTORATION  
PERMITTING PLANS  
MENDON, MASSACHUSETTS**

Plan Set: **SITE PLAN**

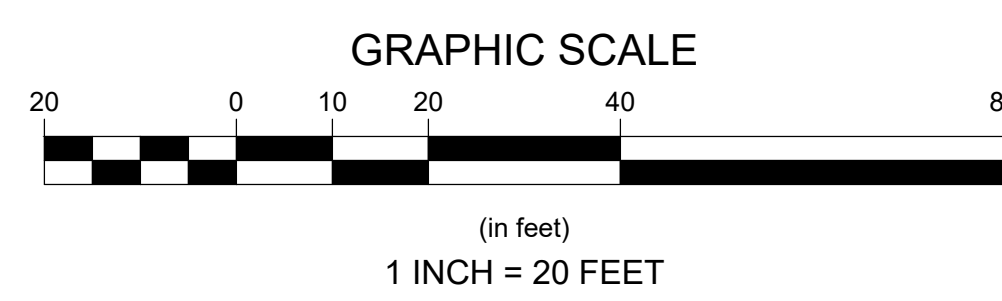
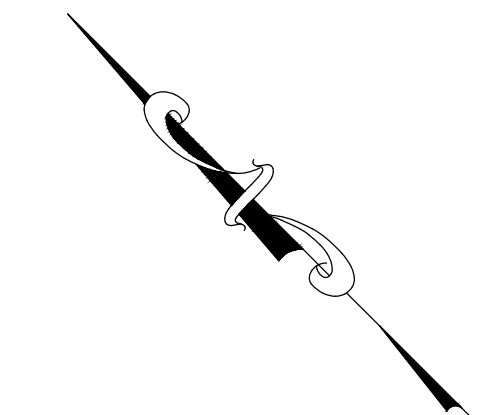
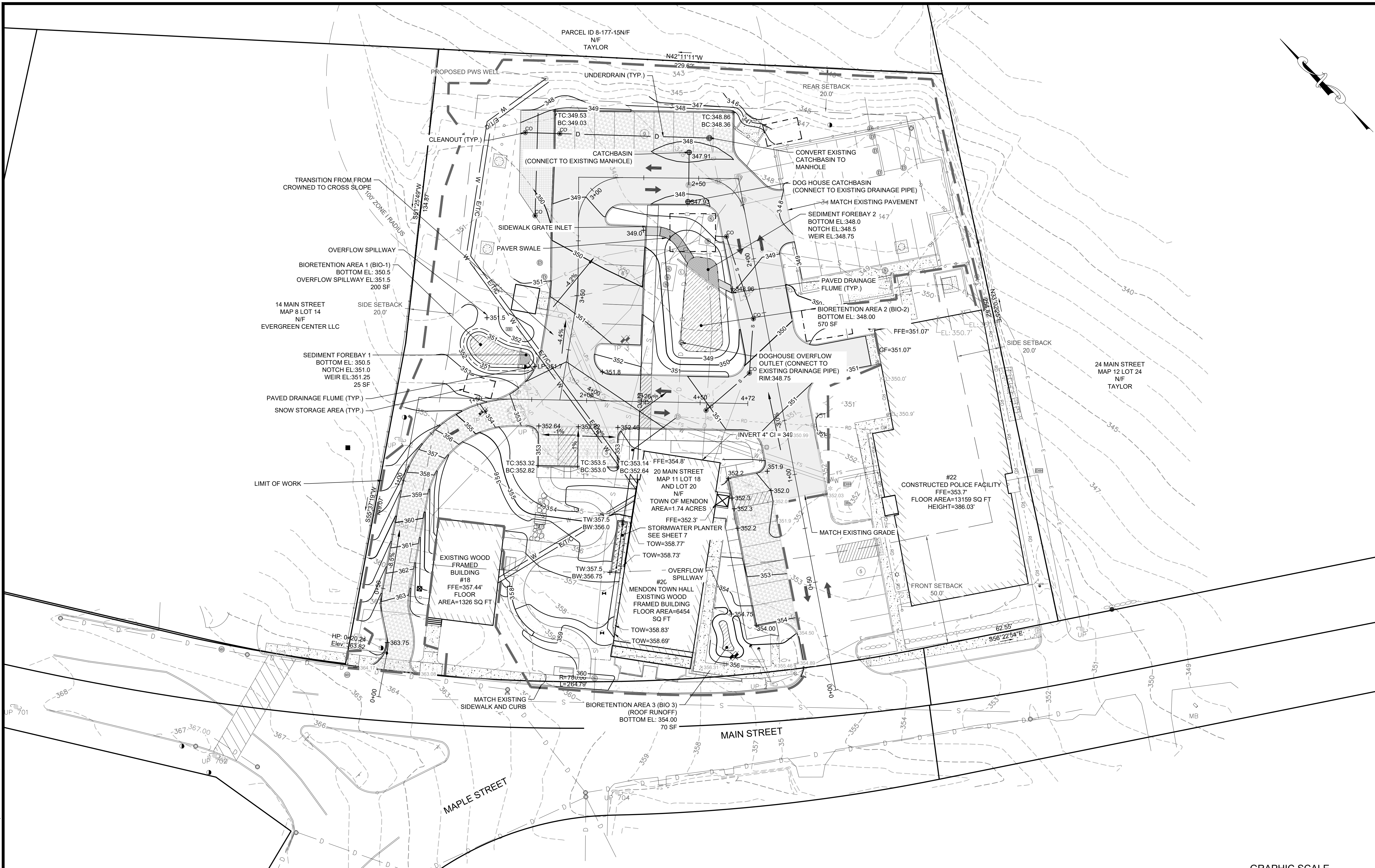
Prepared For:  
**Town of Mendon**  
12 Main Street  
Mendon, MA  
Phone: (508) 473-2312  
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Survey Provided By:  
**Horsley Witten Group, Inc.**  
90 Route 6A  
Sandwich, MA 02563  
Phone: (508) 833-6600  
Fax: (508) 833-3150  
Dated: DECEMBER 2021

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Project Number: 21127  
Sheet: 5 of 12  
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**Horsley Witten Group, Inc.**  
Sustainable Environmental Solutions  
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508-833-6600 voice  
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Checked By: \_\_\_\_\_  
Drawn By: EWH  
Designed By: EWH  
Date: APRIL 2022

**TOWN HALL CAMPUS RESTORATION  
PERMITTING PLANS  
MENDON, MASSACHUSETTS**

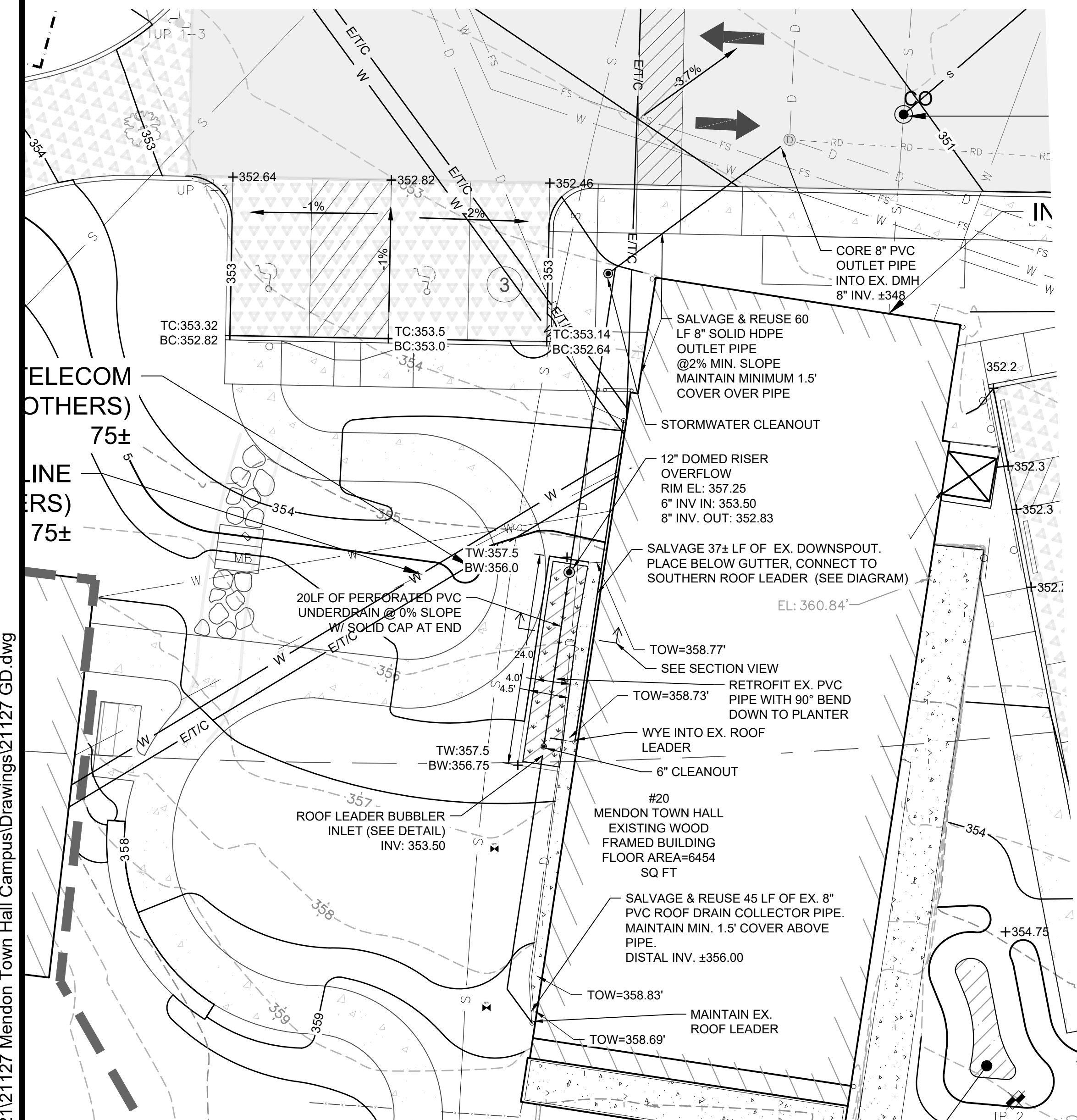
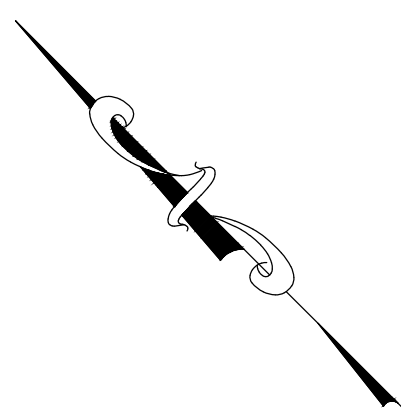
Plan Set: \_\_\_\_\_  
Plan Title: **GRADING PLAN**

Prepared For:  
**Town of Mendon**  
12 Main Street  
Mendon, MA  
Phone: (508) 473-2312  
Fax: \_\_\_\_\_

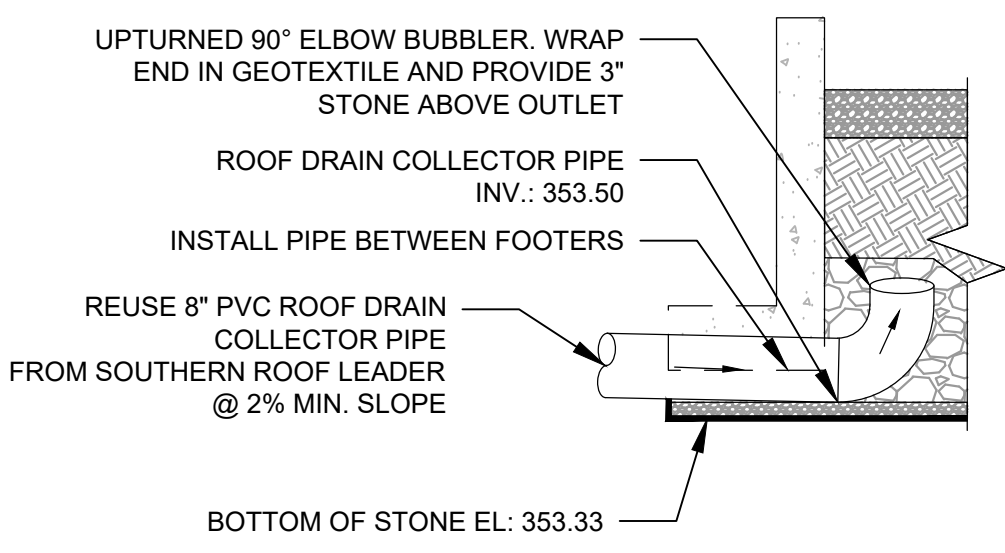
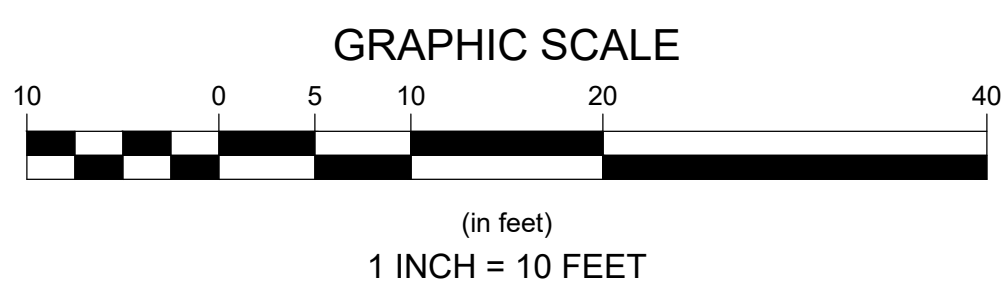
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**Horsley Witten Group, Inc.**  
90 Route 6A  
Sandwich, MA 02563  
Phone: (508) 833-6600  
Fax: (508) 833-3150  
Dated: DECEMBER 2021

Registration:  
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CONSTRUCTION**

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**DOWNSPOUT PLANTER BOX PLAN VIEW**

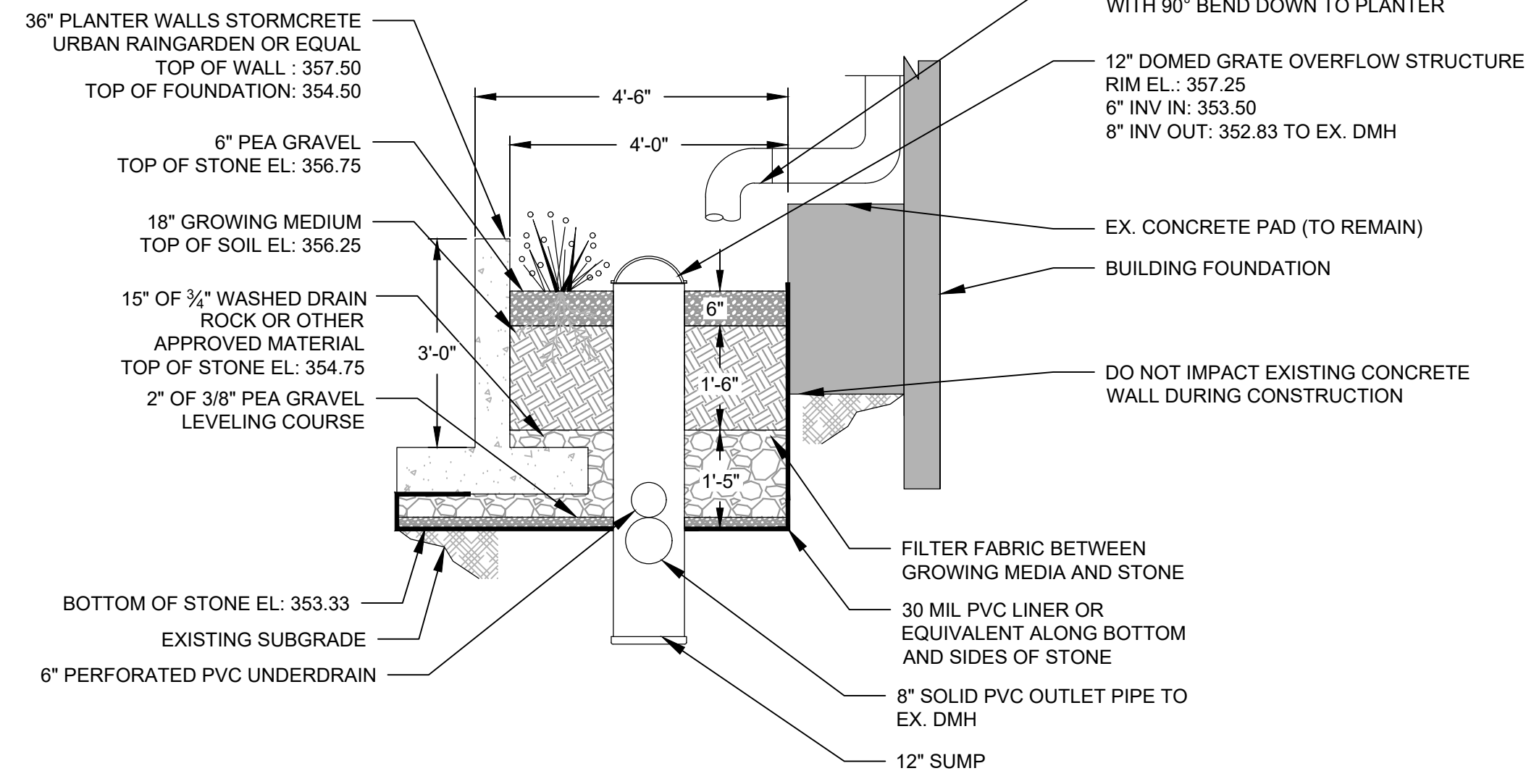


**BUBBLER INLET DETAIL**  
SCALE: 1/2" = 1'

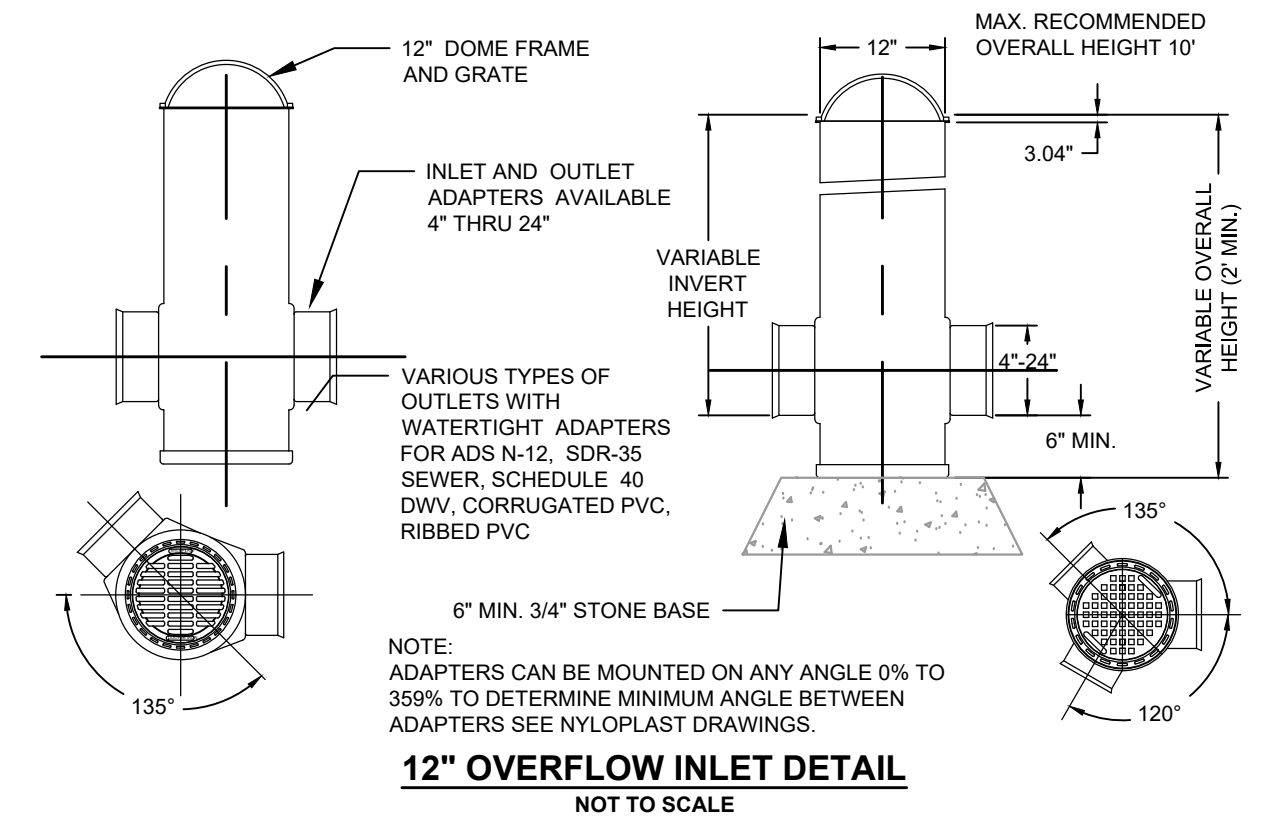


**DOWNSPOUT CONNECTION DIAGRAM**  
SCALE: N.T.S.

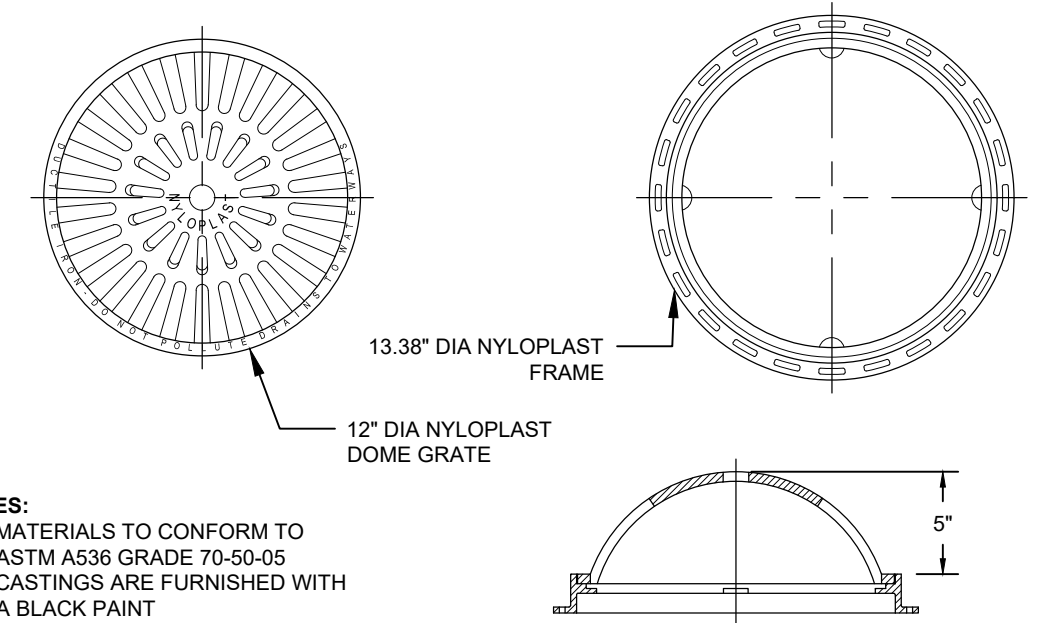
NOTES:  
1. KEEP GRAVEL FREE OF SOIL AND FINES DURING PLANTING. ENSURE ROOTS OF PLANTINGS REACH GROWING MEDIA.



**PLANTER BOX SECTION VIEW**  
SCALE: 1/2" = 1'



**12\"/> OVERFLOW INLET DETAIL**  
NOT TO SCALE



**12\"/> DOME FRAME AND GRATE DETAIL**  
NOT TO SCALE

NOTES:  
1. MATERIALS TO CONFORM TO ASTM A36 GRADE 70-50-05  
2. CASTINGS ARE FURNISHED WITH A BLACK PAINT

**PERMIT SET**  
**NOT FOR CONSTRUCTION**

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90 Route 6A  
Sandwich, MA 02563  
Phone: (508) 833-3150  
Fax: (508) 833-3150  
Date: APRIL 2022

Project Title:  
**TOWN HALL CAMPUS RESTORATION PERMITTING PLANS**  
MENDON, MASSACHUSETTS

Plan Set:  
**STORMWATER PLANTER DETAIL**

Prepared For:  
**Town of Mendon**  
12 Main Street  
Mendon, MA  
Phone: (508) 473-2312  
Fax: ---

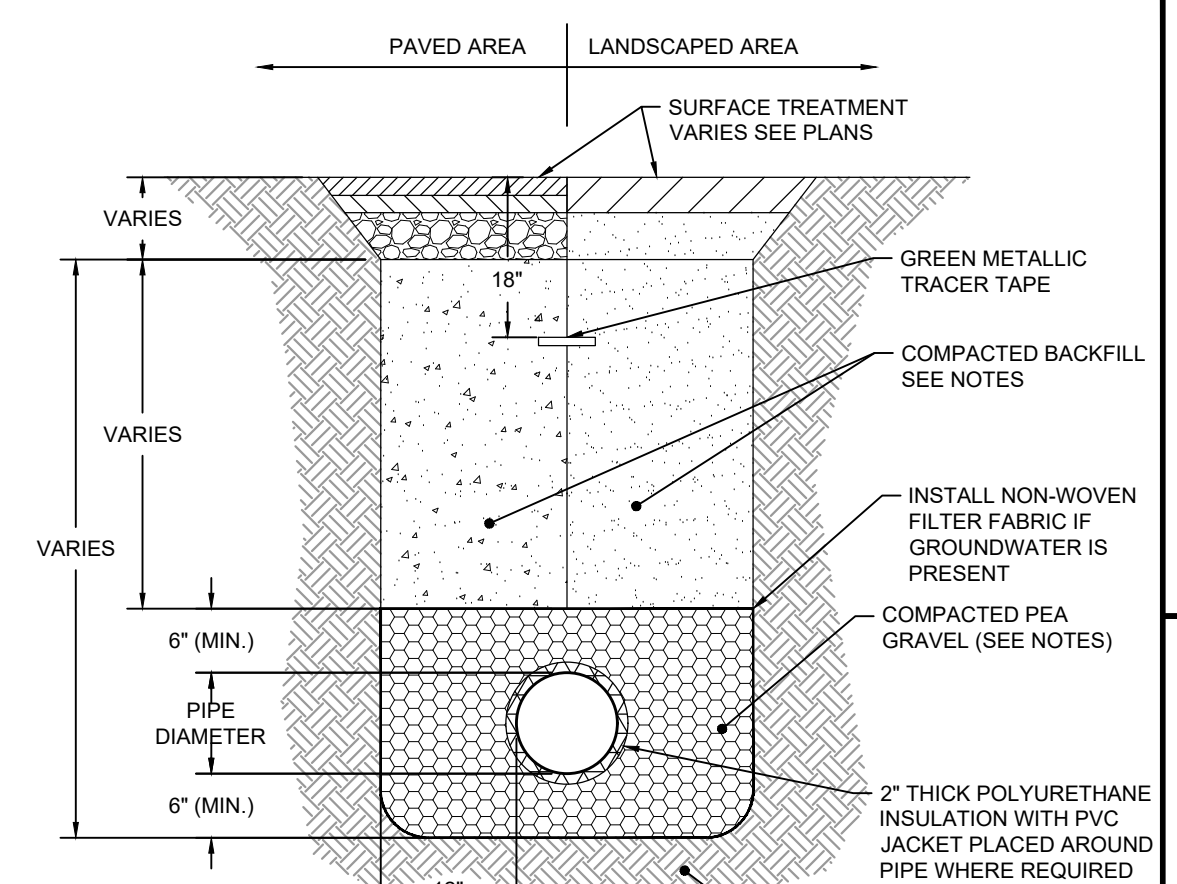
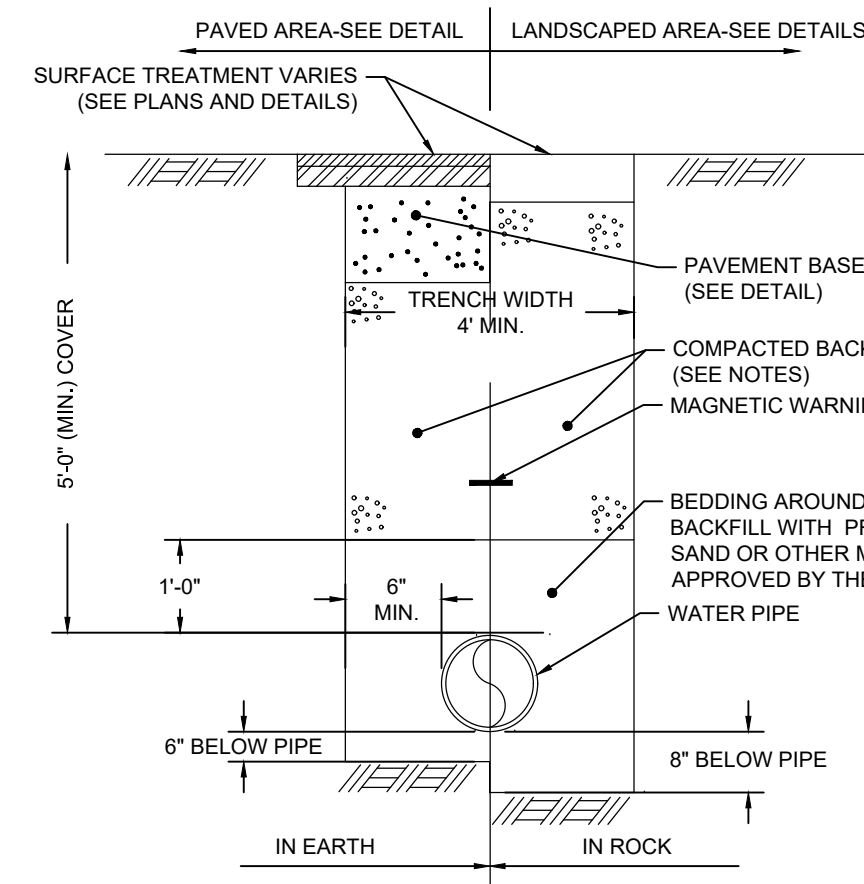
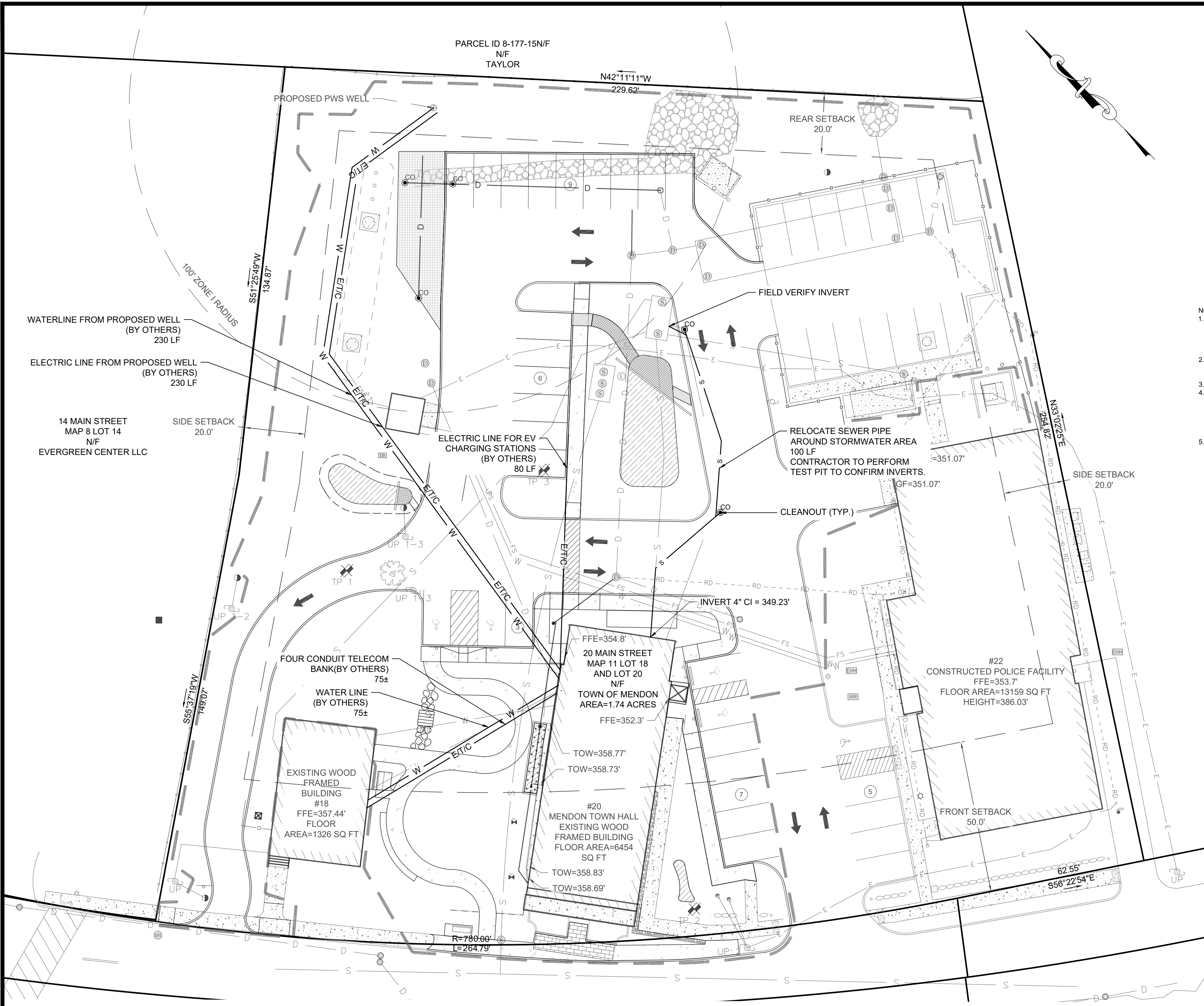
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Date: DECEMBER 2021

Registration:  
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Sheet Number: C-7

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- NOTES:
- TRENCH BACKFILL: BENEATH PAVEMENT: ROADBASE AND COMPACTED TO PAVEMENT SUBGRADE REQUIREMENTS (SEE DETAIL). OUTSIDE PAVEMENT: GRAVEL BORROW TYPE B (3\"/>
  - TRACER TAPE FOR NON-FERROUS PIPE SHALL BE CONSTRUCTED OF A METALLIC CORE BONDED TO PLASTIC LAYERS. A MINIMUM 5mm THICK METALLIC TRACER TAPE MUST BE LOCATABLE AT A DEPTH OF 18 INCHES WITH ORDINARY PIPE LOCATORS.
  - ACHIEVE 95% COMPACTION FOR THE BEDDING.
  - PEA GRAVEL CONSISTS OF CLEAN, HARD, ROUND PARTICLES OF GRAVEL MEETING THE FOLLOWING:
 

SIEVE SIZE	PERCENT PASSING
3/8"	85-95
NO. 4	5-15
NO. 8	0-2
  - INSTALL UTILITY IN ACCORDANCE WITH ALL APPLICABLE UTILITY COMPANY STANDARDS THAT MAY BE MORE STRINGENT THAN THIS DETAIL.

- NOTES:
- GRAVITY SEWER AND FORCE MAIN SHALL BE INSULATED WHEN VERTICAL OR HORIZONTAL SOIL COVER IS LESS THAN 4 FEET AND WHERE SHOWN ON PLANS.
  - TRACER TAPE FOR NON-FERROUS PIPE SHALL BE CONSTRUCTED OF A METALLIC CORE BONDED TO PLASTIC LAYERS. THE METALLIC TRACER TAPE SHALL BE A MINIMUM 5mm THICK AND MUST BE LOCATABLE AT A DEPTH OF 18 INCHES WITH ORDINARY PIPE LOCATORS.
  - TRENCH BACKFILL: BENEATH PAVEMENT: BACKFILL SHALL BE ROADBASE AND COMPACTED TO PAVEMENT SUBGRADE REQUIREMENTS-SEE DETAIL. OUTSIDE PAVEMENT: GRAVEL BORROW TYPE B (3\"/>
  - BACKFILL PLACED IN UTILITY TRENCHES INCLUDING DISTURBED AREAS SURROUNDING UTILITY TRENCHES SHALL BE PLACED AND COMPACTED IN 8\"/>
  - CONTRACTOR SHALL ACHIEVE 95% COMPACTION FOR THE BEDDING.
  - PEA GRAVEL SHALL CONSIST OF CLEAN, HARD, ROUND PARTICLES OF GRAVEL MEETING THE FOLLOWING:
 

SIEVE SIZE	PERCENT PASSING
3/8"	85-95
NO. 4	5-15
NO. 8	0-2
  - UTILITY SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE UTILITY COMPANY STANDARDS THAT MAY BE MORE STRINGENT THAN THIS DETAIL.

**WATER TRENCH DETAIL**  
NOT TO SCALE

**SEWER TRENCH DETAIL**  
NOT TO SCALE

**ZONING & RESOURCE PROTECTION NOTES**

- PARCEL ID: MAP 11 LOT 18 AND 20
- OWNER OF RECORD: TOWN OF MENDON
- ADDRESS: 20 MAIN STREET, MENDON, MA
- THE PROPERTY IS LOCATED WITHIN F.I.R.M. ZONE X AS SHOWN ON COMMUNITY PANEL NO. 25027C1031E DATED JULY 4, 2011.
- THE SITE IS LOCATED IN A ZONE I WELLHEAD PROTECTION DISTRICT.

**WASTEWATER NOTES**

- ELEVATION, PROPERTY LINE AND EXISTING CONDITIONS ON THIS PLAN ARE BASED ON INFORMATION PROVIDED BY THE TOWN OF BARNSTABLE.
- UNLESS OTHERWISE NOTED, ALL SYSTEM COMPONENTS AND CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH THE STATE ENVIRONMENTAL CODE AND THE RULES AND REGULATIONS OF THE LOCAL BOARD OF HEALTH.
- THIS PLAN IS INTENDED TO ADEQUATELY PROVIDE THE INFORMATION NECESSARY TO LAYOUT AND CONSTRUCT THE PROPOSED SEWAGE DISPOSAL SYSTEM REPRESENTED ON IT AND SHOULD NOT BE USED FOR ANY OTHER PURPOSES.
- ANY CHANGES TO THIS PLAN MUST BE APPROVED BY THE ENGINEER AND/OR THE LOCAL BOARD OF HEALTH (BOH) STAFF.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNER AND ENGINEER ON THE CONSTRUCTION SITE ACCESS AND MATERIAL STOCK PILE AREAS.
- TRENCH SAFETY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR INCLUDING ANY LOCAL AND/OR STATE PERMITS REQUIRED FOR THE TRENCHWORK. THIS WORK MAY BE REQUIRED TO TAKE PLACE OUTSIDE OF NORMAL HOURS OF OPERATION FOR THE FACILITY. THE CONTRACTOR SHALL PLAN ACCORDINGLY.
- THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES FOUND IN SITE CONDITIONS FROM THOSE SHOWN ON THE PLAN TO THE DESIGN ENGINEER.
- FAILING TO PROPERLY INSPECT OR PUMP THE SEPTIC TANKS AND TREATMENT SYSTEM OR CHANGES TO EFFLUENT FLOW, GRADING, OR LANDSCAPING, EITHER ON-SITE OR ADJACENT TO THE SITE, MAY RESULT IN IMPROPER FUNCTIONING OF THE SEPTIC AND LEACHING SYSTEM(S).
- CALL "DIGSAFE" AT LEAST 72 HOURS PRIOR TO COMMENCING CONSTRUCTION AT 1-888-DIG-SAFE AND ANY OTHER APPLICABLE AGENCIES TO FIELD VERIFY LOCATIONS OF EXISTING UTILITIES.
- THIS ON-SITE WASTEWATER TREATMENT SYSTEM IS NOT DESIGNED FOR USE WITH A GARBAGE GRINDER.
- THE OWNER SHALL INSPECT AND PUMP THE SEPTIC TANK ONCE EVERY 2 YEARS.
- PROVIDE WATERTIGHT SEALS BY USE OF NON-SHRINK GROUT AT ALL POINTS WHERE PIPES ENTER OR LEAVE ANY CONCRETE STRUCTURES.
- USE SCH. 40 PVC PIPING WITH WATERTIGHT JOINTS UNLESS OTHERWISE NOTED ON PLAN. ALL PIPE SHALL BE PLACED ON A COMPACTED FIRM BASE.
- ALL STONE TO BE DOUBLE-WASHED AND FREE OF DIRT, DUST, AND FINES.
- THE CONTRACTOR SHALL PROVIDE A DEWATERING PROTOCOL PRIOR TO CONSTRUCTION IF GROUNDWATER IS ANTICIPATED DURING CONSTRUCTION.
- ALL SEPTIC COMPONENTS SHALL BE INSTALLED WITH MAGNETIC WARNING TAPE.
- THE CONTRACTOR SHALL RESTORE ALL SURFACES EQUAL TO THEIR ORIGINAL CONDITION AFTER CONSTRUCTION IS COMPLETE. AREAS NOT DISTURBED BY CONSTRUCTION SHALL BE LEFT NATURAL. THE CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO SHRUBS, TREES, OTHER LANDSCAPING AND/OR NATURAL FEATURES. WHEREAS THE PLANS DO NOT SHOW ALL LANDSCAPE FEATURES, EXISTING CONDITIONS MUST BE VERIFIED BY THE CONTRACTOR IN ADVANCE OF THE WORK.
- ALL UNPAVED AREAS DISTURBED BY THE WORK SHALL HAVE A MINIMUM OF 4-INCHES OF LOAM INSTALLED AND BE SEEDED WITH GRASS SEED AS SHOWN ON THE PLAN AND/OR DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING ANY LOAM AND SEEDED AREAS UNTIL LAWN GROWTH IS ESTABLISHED AND APPROVED BY THE ENGINEER AND/OR OWNER.
- ALL EXISTING SEPTIC COMPONENTS SHALL BE ABANDONED IN PLACE IN ACCORDANCE WITH TITLE 5, 310 CMR 15.354(3).

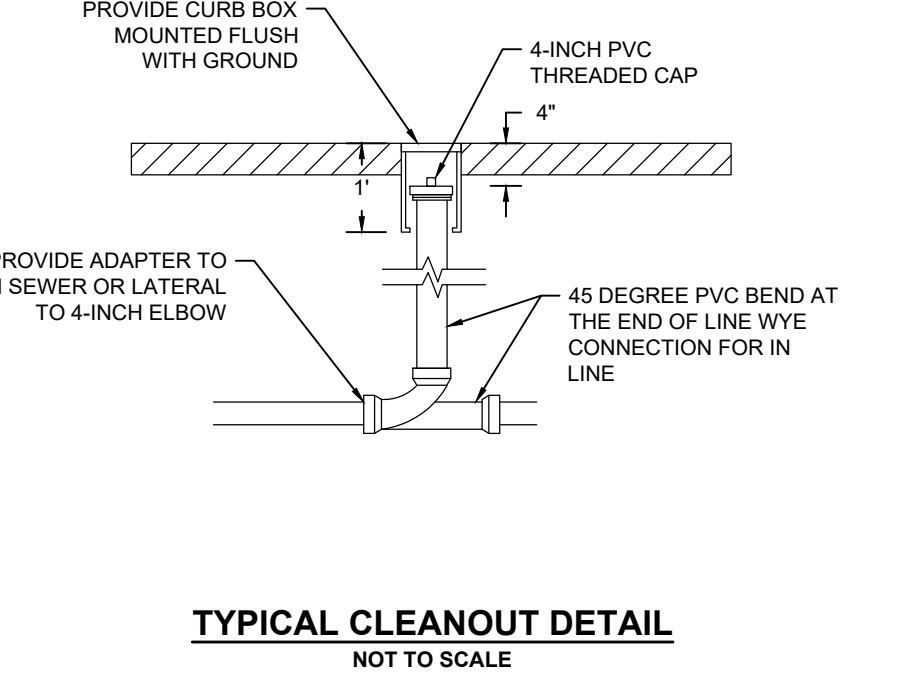
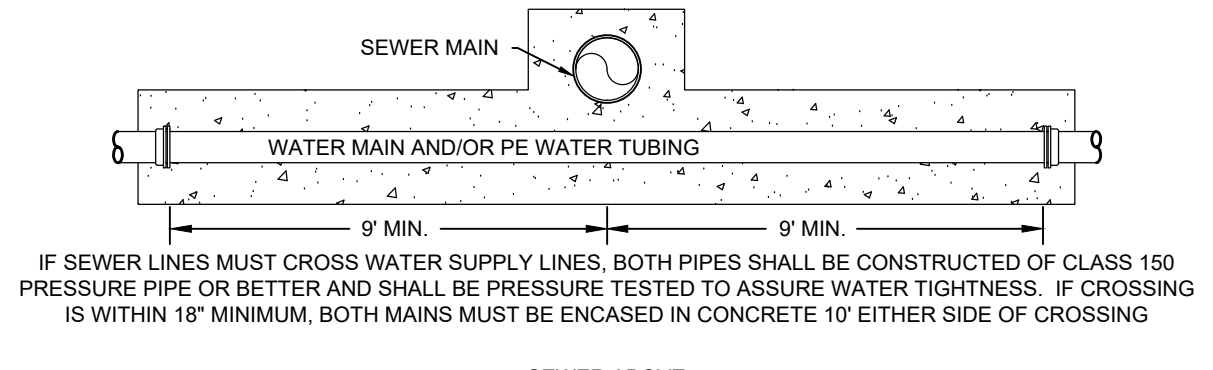
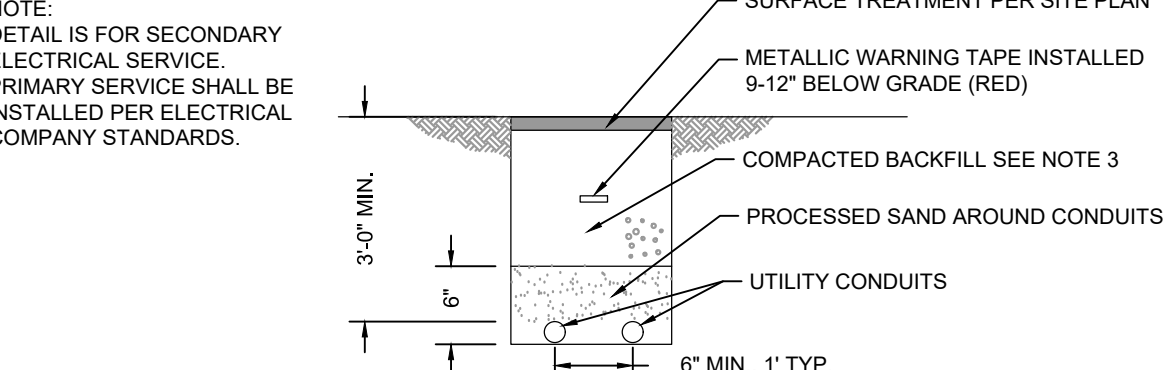
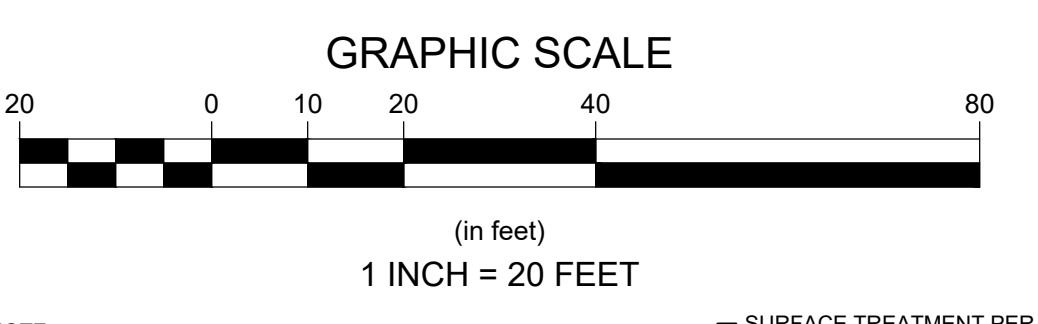
**WASTEWATER INSTALLATION INSPECTION NOTES**

- THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 24 HOURS ADVANCE NOTICE TO THE ENGINEER AND LOCAL BOARD OF HEALTH FOR ANY INSPECTION.
- ALL WASTEWATER SYSTEMS SHALL BE INSPECTED BY THE ENGINEER OR THE LOCAL BOH REPRESENTATIVE PRIOR TO BACKFILLING.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN UP-TO-DATE AS-BUILT DRAWINGS AND NOTES INDICATING THE HORIZONTAL AND VERTICAL LOCATION WITH TWO TIES OF ALL SYSTEM COMPONENTS INSTALLED. THESE AS-BUILT DRAWINGS AND NOTES WILL BE UTILIZED BY THE ENGINEER FOR THE PREPARATION OF RECORD PLANS.

**SEWER SYSTEM OPERATION & MAINTENANCE:**

- CLEAN ALL NEWLY INSTALLED FACILITIES, INCLUDING SEWER COLLECTION SYSTEM OF ALL FOREIGN MATERIALS SUCH AS DIRT AND MISCELLANEOUS DEBRIS PRIOR TO SYSTEM TESTING. TESTING MUST BE WITNESSED AND INSPECTED BY THE ENGINEER. NO TESTING IS ALLOWED WITHOUT REMOVAL OF ALL FOREIGN MATERIALS.
- CONDUCT A LEAKAGE TEST OF ALL SEWER MAINS. TEST MUST BE WITNESSED BY THE ENGINEER. THE CONTRACTOR MUST PROVIDE THE ENGINEER WITH A MINIMUM OF 48-HOURS ADVANCE NOTICE TO THE TIME OF THE PRESSURE TEST.
- TEST SEWER PIPES FOR LEAKAGE WITH THE FOLLOWING PROCEDURE:  
INTRODUCE LOW PRESSURE AIR INTO THE SEAL LINE (WITH PNEUMATIC PLUGS) UNTIL THE INTERNAL AIR PRESSURE REACHES 4 psi GREATER THAN THE AVERAGE BACK PRESSURE OF ANY GROUNDWATER THAT MAY BE OVER THE PIPE.  
ALLOW AT LEAST 2 MINUTES FOR AIR PRESSURE TO STABILIZE.  
AFTER THE STABILIZATION PERIOD (3.5 psi MINIMUM PRESSURE IN THE PIPE), THE PORTION OF PIPE TESTED IS ACCEPTABLE IF THE TIME REQUIRED IN MINUTES FOR THE PRESSURE TO DECREASE FROM 3.5 TO 3 psi IS NOT LESS THAN 1.90 TIMES THE LENGTH OF PIPE BEING TESTED.
- VACUUM TEST ALL SEWER MANHOLES. TESTS MUST BE WITNESSED BY THE ENGINEER UNLESS THE SEASONAL GROUNDWATER LEVEL IS MORE THAN 10 FEET FROM THE BOTTOM OF THE MANHOLE.
- MANDREL TEST ALL SEWER MAINS AFTER 30 DAYS. TESTS MUST BE WITNESSED BY A TOWN REPRESENTATIVE OR THE ENGINEER.

**PERMIT SET  
NOT FOR CONSTRUCTION**

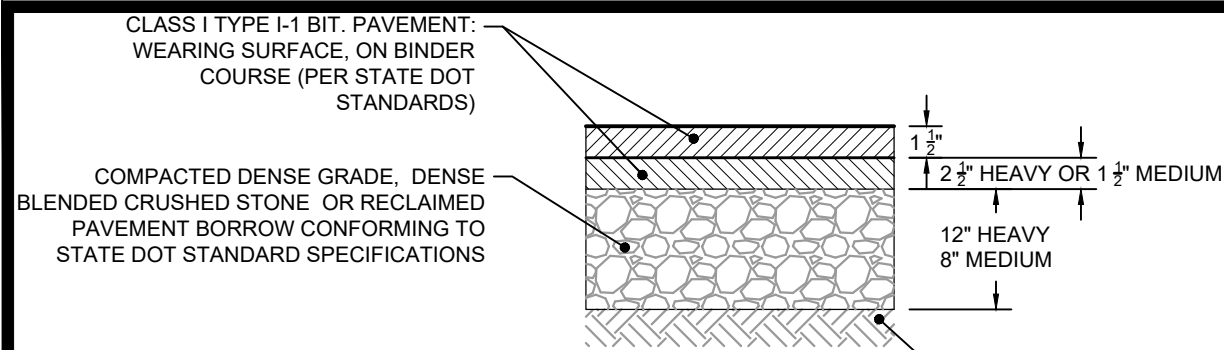


- NOTES:
- SITE WORK SUBCONTRACTOR SHALL PERFORM EXCAVATION, AND BACKFILL FOR ALL CONDUIT INSTALLATIONS. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUITS, PULLWIRES, HANDHOLES, AND WARNING TAPE AS REQUIRED FOR ELECTRICAL WORK.
  - UTILITY CONDUITS SHALL INCLUDE A COMBINATION OF ONE, TWO, OR ALL OF (1) FOR TELEPHONE, (1) FOR ELECTRICAL, AND (1) FOR CABLE TELEVISION, (1) COMMUNICATION, (1) FOR OTHER AS SHOWN IN THE SITE PLAN.
  - TRENCH COMPACTED BACKFILL: BENEATH PAVEMENT: BACKFILL SHALL BE ROADBASE AND COMPACTED TO PAVEMENT SUBBASE REQUIREMENTS-SEE DETAIL. OUTSIDE PAVEMENT: GRAVEL BORROW TYPE B (3\"/>
  - UTILITY SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE UTILITY COMPANY STANDARDS THAT MAY BE MORE STRINGENT THAN THIS DETAIL.

<p>Revisions</p> <table border="1"> <thead> <tr> <th>Rev</th> <th>Date</th> <th>By</th> <th>Appr.</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Rev	Date	By	Appr.	Description	1					2					3					4					5				
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<p><b>Horsley Witten Group, Inc.</b> Sustainable Environmental Solutions 90 Route 6A Sandwich, MA 02563 508-833-6600 voice 508-833-3150 fax</p>																															
<p>Prepared For: <b>Town of Mendon</b> 12 Main Street Mendon, MA Phone: (508) 473-2312 Fax: ---</p>	<p>Survey Provided By: <b>Horsley Witten Group, Inc.</b> 90 Route 6A Sandwich, MA 02563 Phone: (508) 833-6600 Fax: (508) 833-3150 Date: DECEMBER 2021</p>																														
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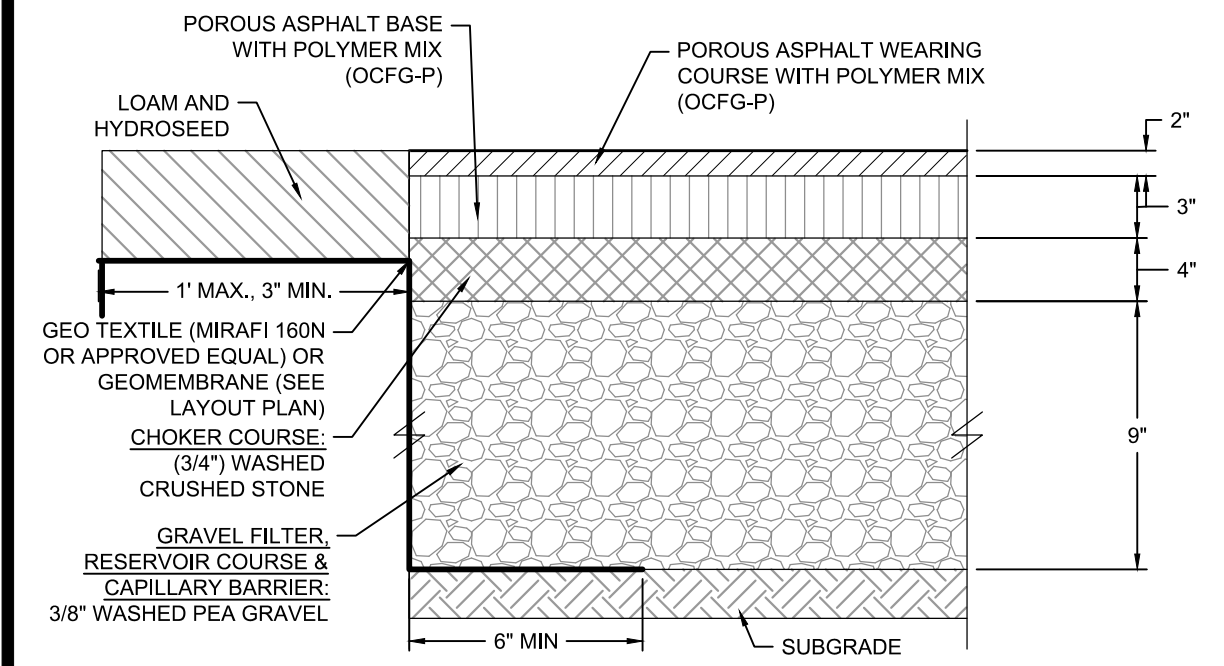


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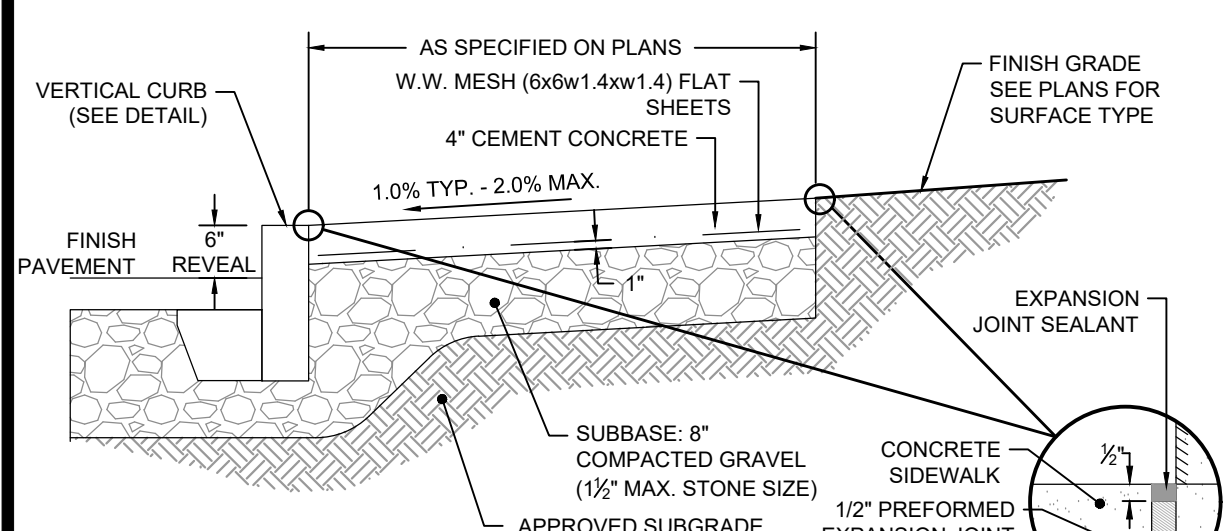


- GENERAL NOTES:**
- SUB-GRADE (EXISTING MATERIAL) SHALL CONSIST OF INERT MATERIAL THAT IS HARD, DURABLE STONE AND/OR COARSE SAND, FREE FROM LOAM AND CLAY TO A DEPTH NOT LESS THAN 4-FT BELOW THE FINISH PAVEMENT SURFACE. EXCAVATE SANDY-LOAM AND/OR LOAMY-SAND TOPSOIL MATERIAL FROM ALL PAVED AREAS PRIOR TO SUB-BASE INSTALLATION.
  - PLACE SUB-BASE IN MAXIMUM 8" LIFTS (COMPACTED TO 95%).
  - COMPACT SUB-GRADE FILL TO 85% COMPACTION.
  - SEE SITE LAYOUT PLAN FOR PAVEMENT WIDTH AND LOCATION.
  - SEE GRADING PLANS FOR PAVEMENT SLOPE AND CROSS SLOPE.
  - SWEEP CLEAN THE EXISTING BINDER COURSE PRIOR TO INSTALLING THE WEARING COURSE BY A STREET SWEEPING MACHINE.
  - APPLY A TACK COAT PER SPECIFICATIONS.

### BITUMINOUS PAVEMENT

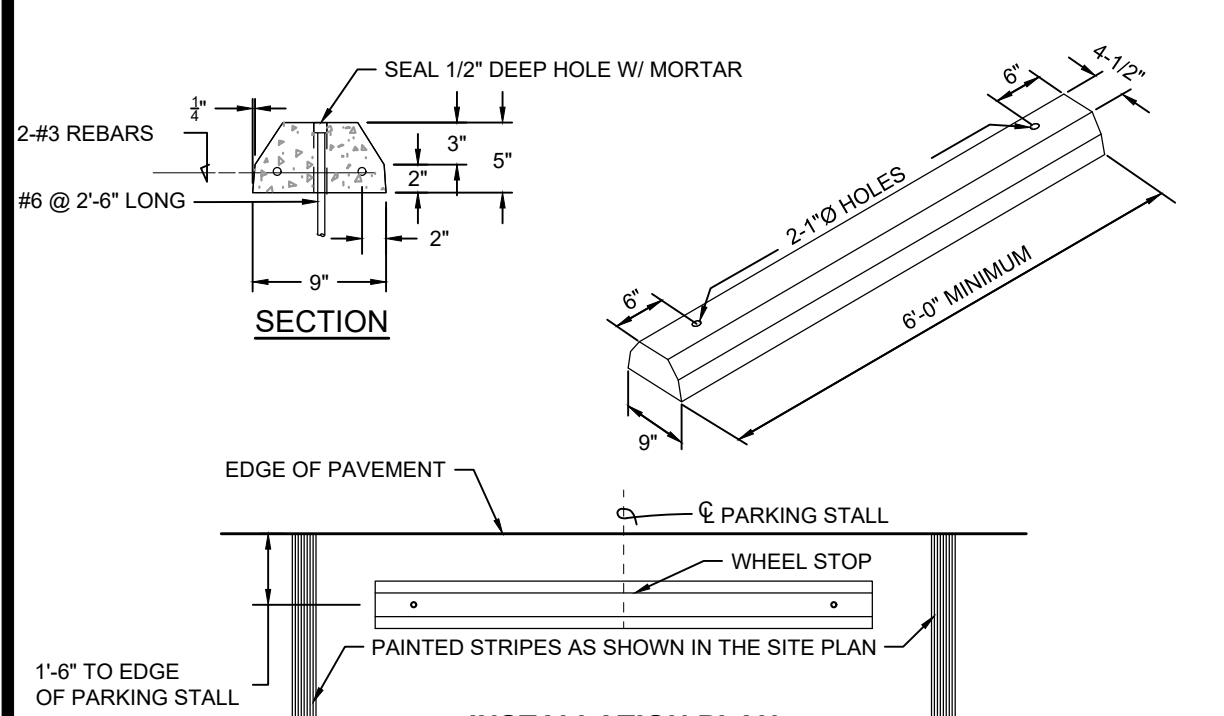


### PERVIOUS PAVEMENT PROFILE

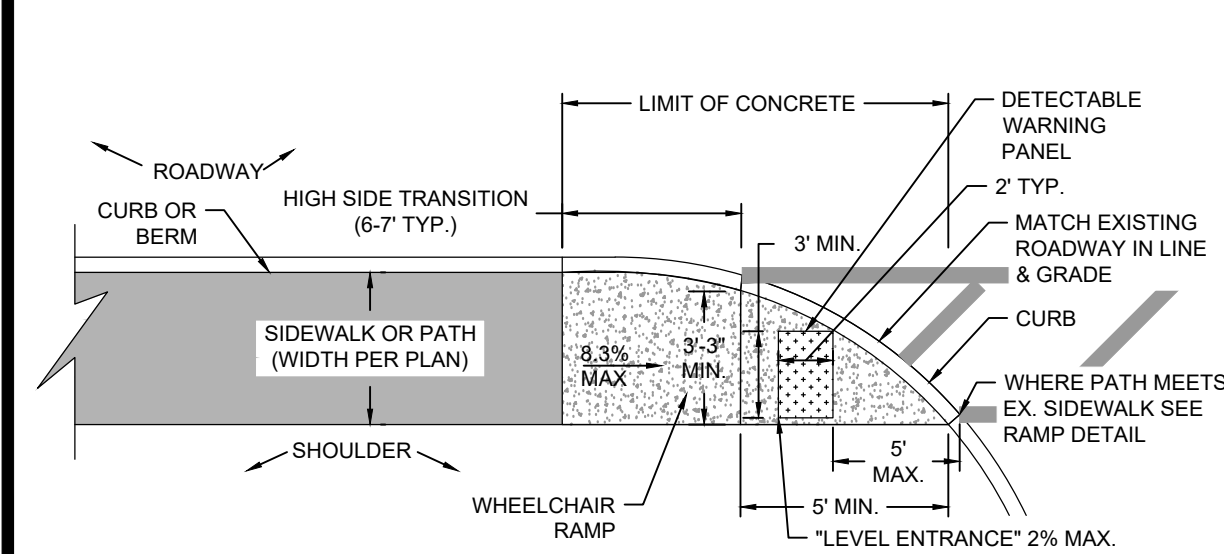


- NOTES:**
- PROVIDE EXPANSION JOINTS AT MIN. 30 FT. O.C. WITH PRE-FORMED JOINT FILLER.
  - PROVIDE TOoled CONTROL JOINTS AT 5' O.C. TYP. - 6' MAX.
  - PROVIDE BROOM FINISH IN DIRECTION PERPENDICULAR TO CURB.
  - CEMENT CONCRETE, 4,000 PSI-TYPE II.
  - IF APPLICABLE, MATCH ALL EXISTING SIDEWALK WIDTHS.
  - SUBBASE: COMPACTED TO 95%.

### CONCRETE SIDEWALK

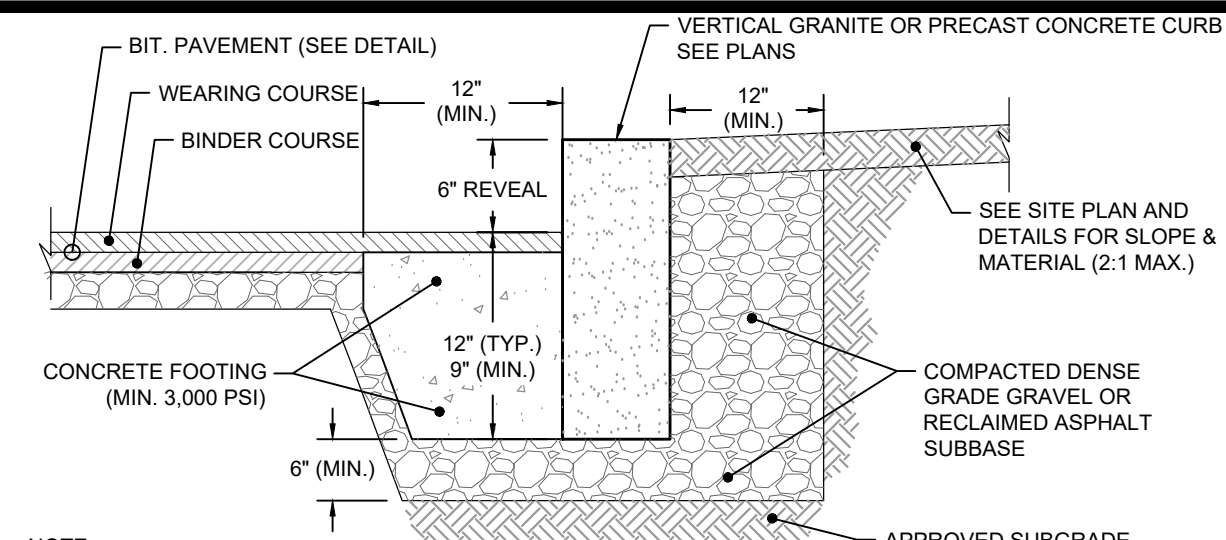


### PRECAST CONCRETE CURB STOPS



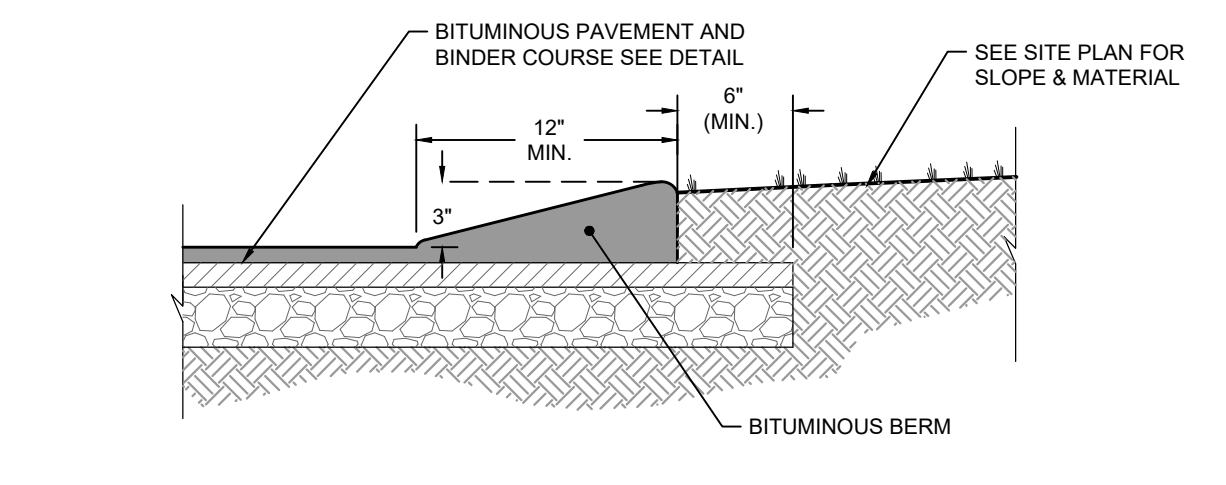
- NOTES:**
- WHEELCHAIR RAMP SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE PER MADOT & ADA SPECIFICATIONS.
  - CONTRACTOR SHALL REPLACE/RESET EX. CURB/BERM AS NECESSARY.
  - CURB END SECTIONS SHALL BE INSTALLED AT ALL RAMPS WHEN APPLICABLE.
  - DETECTABLE WARNING PANEL SHALL BE NON SLIP SURFACE FULLY EMBEDDED AND MEETING ADA REQUIREMENTS INSTALLED AT ALL ROADWAY CROSSING. PANEL SHALL BE 3' MIN. IN WIDTH IN DIRECTION OF TRAVEL AND 5' MAX. FROM FACE OF CURB.

### HANDICAP RAMP TYPE 1



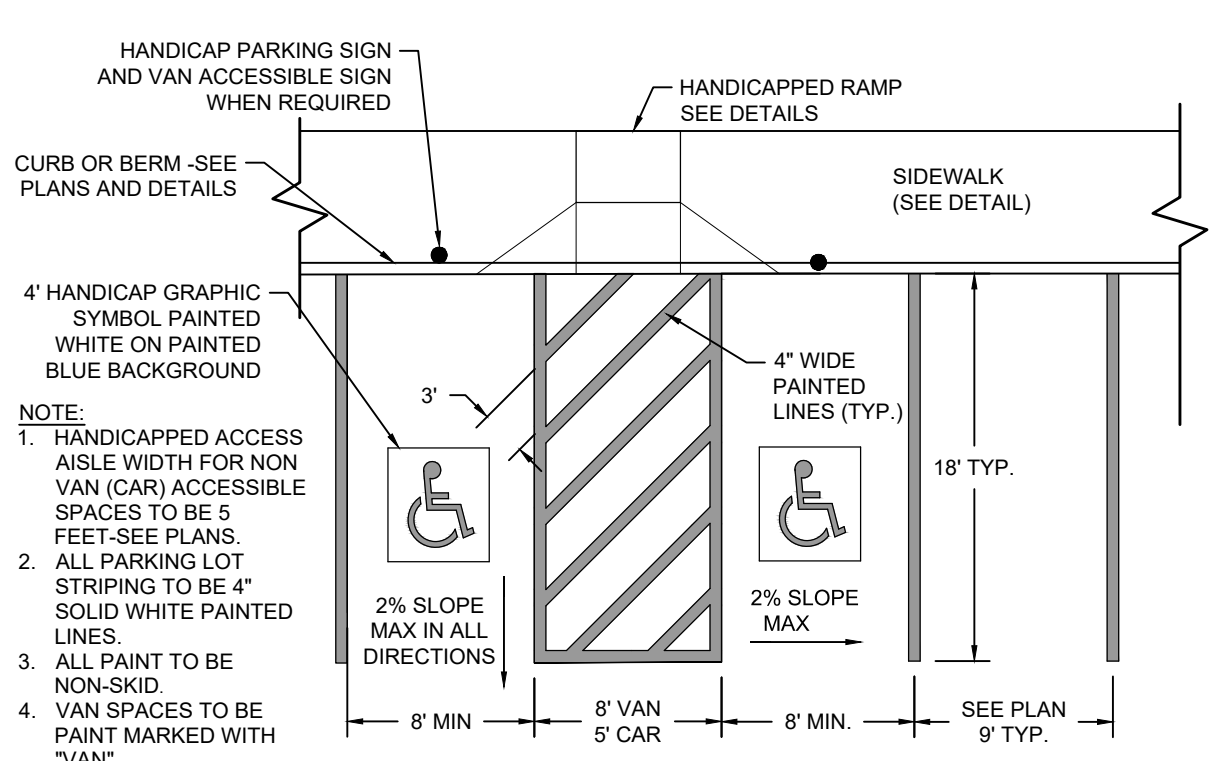
- NOTE:**
- VERTICAL CURB MIN. HEIGHT = 18" MIN. WIDTH = 6"
  - VERTICAL CURBING TO BE INSTALLED AS SHOWN ON THE SITE PLAN.
  - PROVIDE CURB EXPANSION JOINTS AT 5'-0" TO 6'-0" O.C.
  - CURB REPLACEMENT IN EXISTING PAVEMENT - SAWCUT EDGE MIN. 12" FROM CURB.
  - CONCRETE CURB - PROVIDE 1" CHAMFER OF EDGE ALONG PAVEMENT SIDE FACE FOR CONCRETE CURB.
  - CONCRETE CURB - TO HAVE A MINIMUM CONCRETE STRENGTH OF 4,000 PSI
  - CEMENT MORTAR JOINTS & INSTALL PREFORMED (1/2") EXPANSION JOINT WHERE REQUIRED.

### TYPICAL VERTICAL CURB



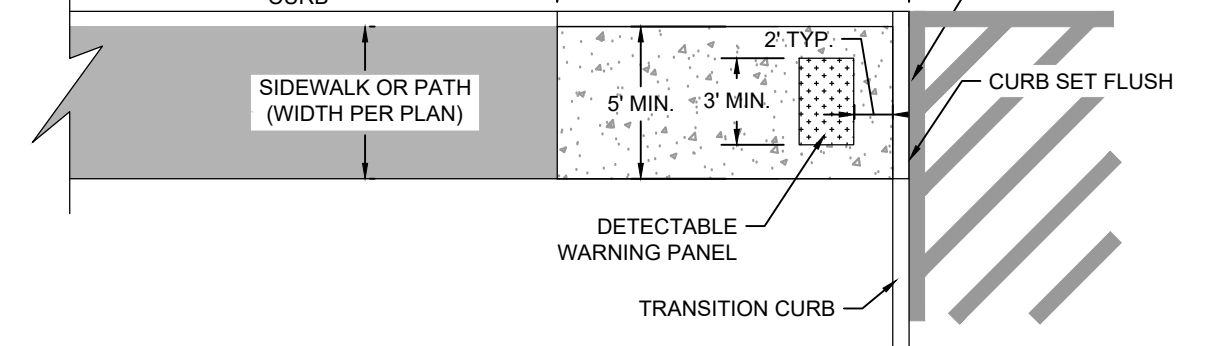
- NOTES:**
- BERM TO BE CONSTRUCTED OF BITUMINOUS WEARING SURFACE COURSE AS SHOWN.
  - BERM TO BE CONSTRUCTED INTEGRAL WITH BITUMINOUS WEARING SURFACE.
  - WHEN BERM IS TO BE CONSTRUCTED ON A FRESH LAID BITUMINOUS SURFACE, THAT SURFACE MUST FIRST BE CLEANED.
  - BERM TO BE FOUNDED ENTIRELY ON THE BASE COURSE.
  - FINISH GRADE AT THE BACK OF THE BERM IS TO BE BROUGHT TO THE TOP OF THE BACK EDGE OF BERM.

### BITUMINOUS BERM



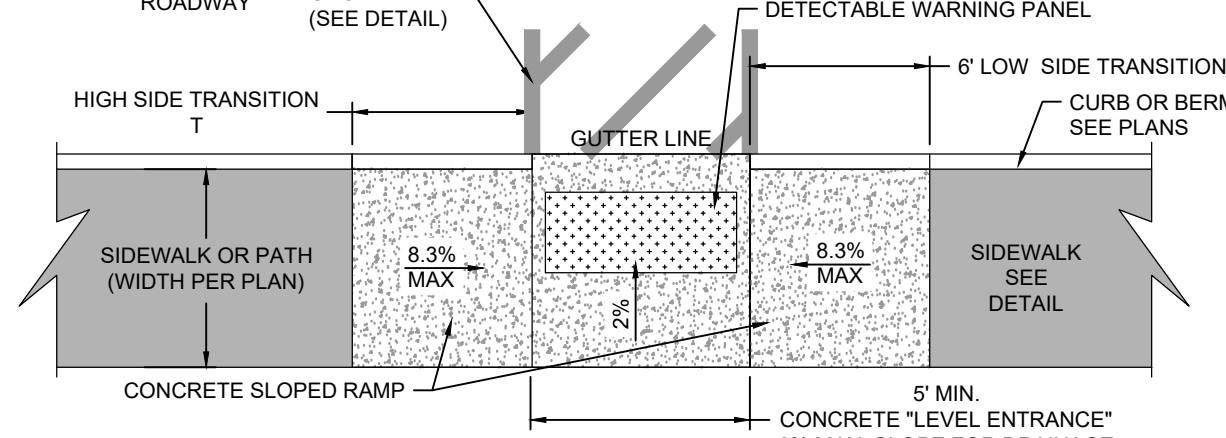
- NOTE:**
- HANDICAPPED ACCESS AISLE WIDTH FOR NON-VAN (CAR) ACCESSIBLE SPACES TO BE 5 FEET-SEE PLANS
  - ALL PARKING LOT STRIPING TO BE 4" SOLID WHITE PAINTED LINES
  - ALL PAINT TO BE NON-SKID
  - VAN SPACES TO BE PAINT MARKED WITH "VAN"

### HANDICAP RAMP TYPE 2



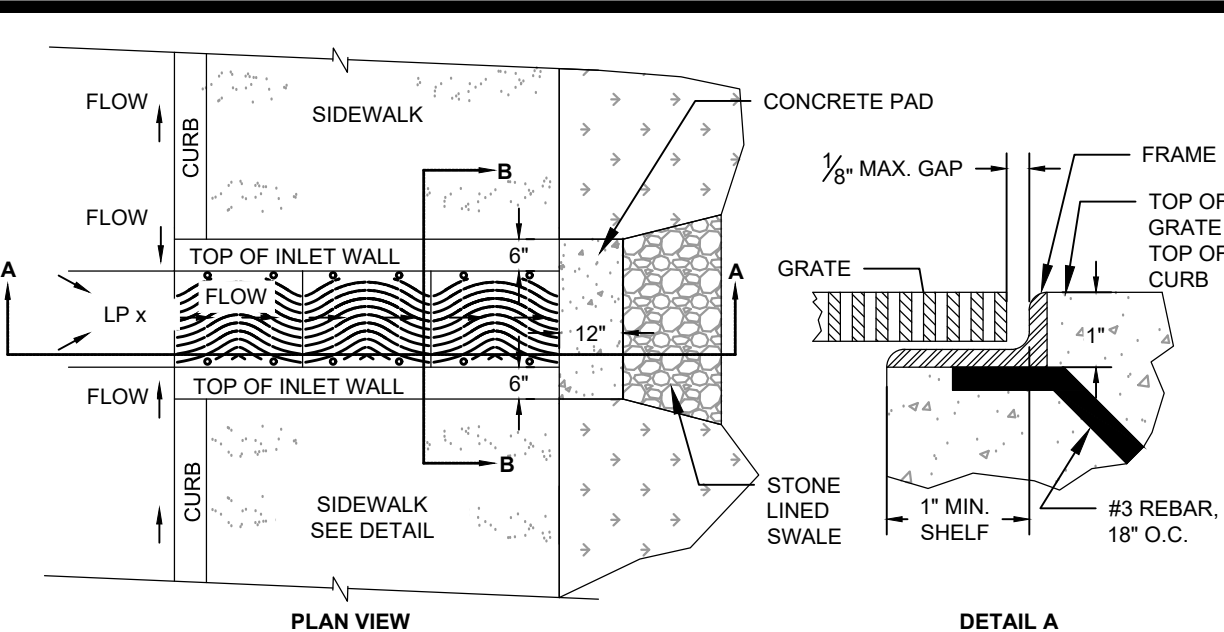
- NOTES:**
- WHEELCHAIR RAMP SHALL ADA COMPLIANT AND CONSTRUCTED OF PORTLAND CEMENT CONCRETE.
  - REPLACE/RESET EX. CURB/BERM AS NECESSARY.
  - INSTALL CURB END SECTIONS AT ALL RAMPS WHEN APPLICABLE.
  - DETECTABLE WARNING PANEL: NON SLIP SURFACE FULLY EMBEDDED AND MEETING ADA REQUIREMENTS INSTALLED AT ALL ROADWAY CROSSING. PANEL SHALL BE 3' MIN. IN WIDTH IN DIRECTION OF TRAVEL AND 5' MAX. FROM FACE OF CURB.

### HANDICAP RAMP TYPE 3



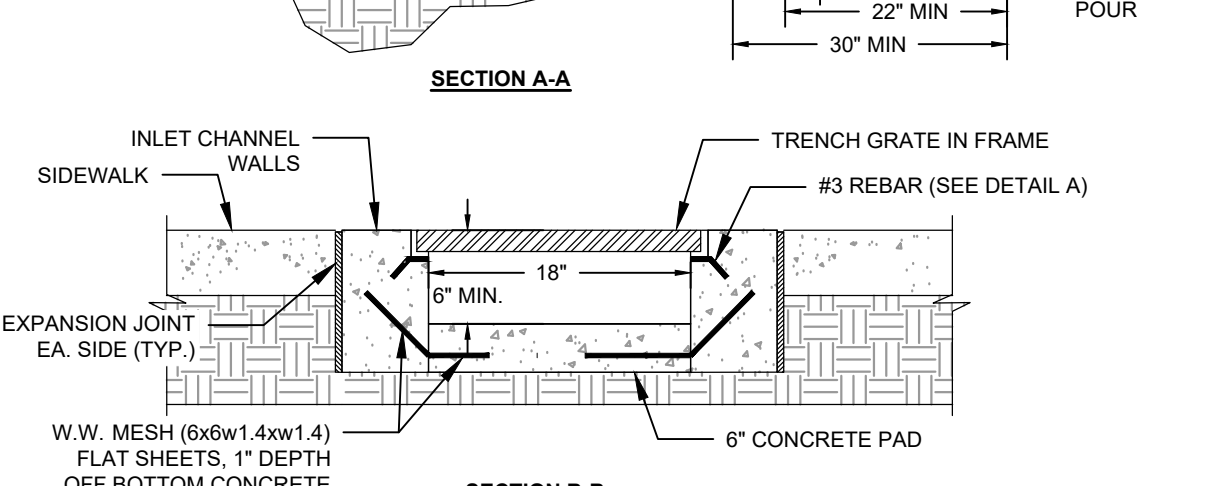
- NOTES:**
- CONTRACTOR TO CONTACT THE ENGINEER IF DISCREPANCIES ARE FOUND IN THE SLOPES AND GRADES SHOWN PRIOR TO POURING THE CONCRETE.
  - RAMP SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE PER MADOT & ADA REQUIREMENTS.
  - IF APPLICABLE, CONTRACTOR TO REPLACE/RESET EX. CURB/BERM AS NECESSARY.
  - DETECTABLE WARNING PANEL TO BE NON SLIP SURFACE FULLY EMBEDDED AND MEETING ADA REQUIREMENTS INSTALLED AT ALL ROADWAY CROSSING AND IN LINE WITH CROSSWALK.

### HANDICAP RAMP TYPE 4



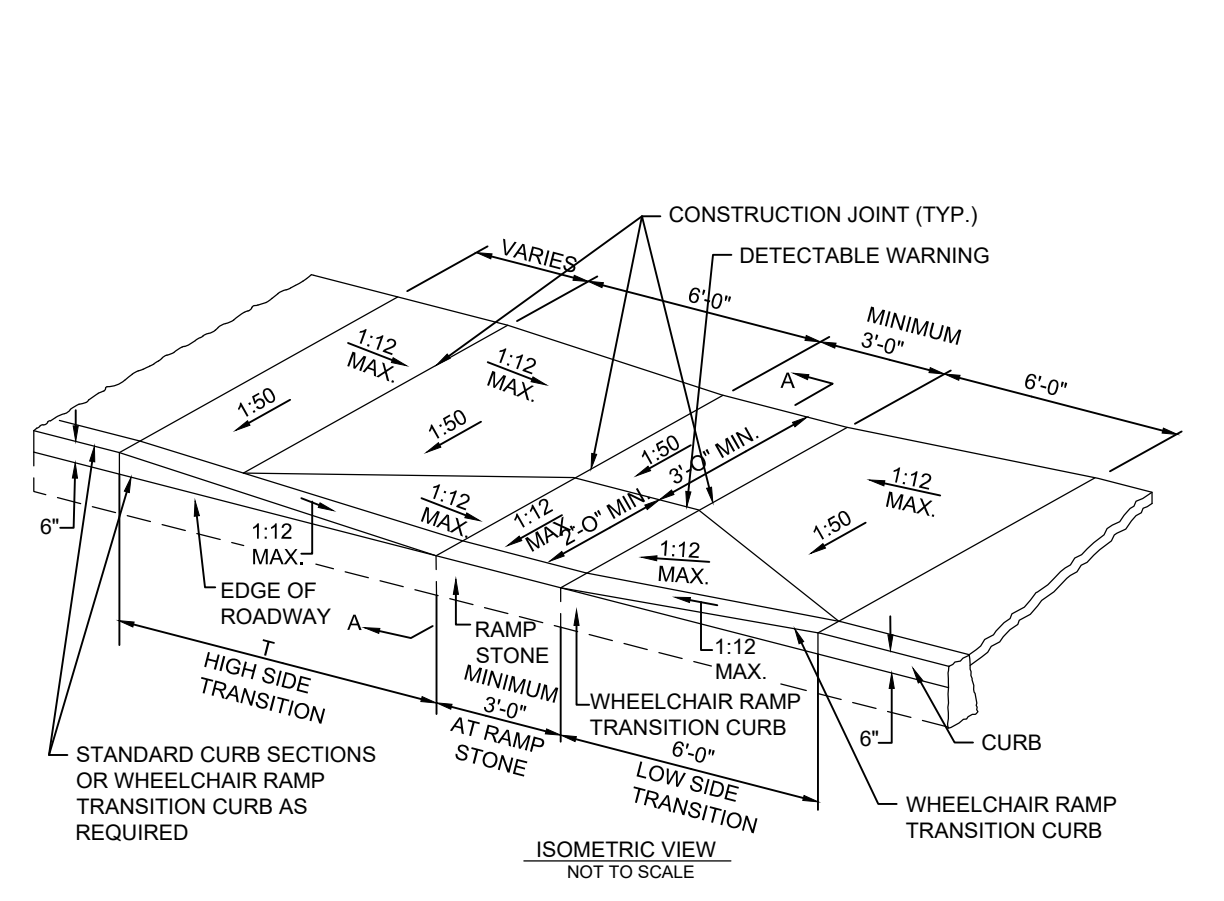
- NOTES:**
- TRENCH GRATE TO BE TITLE WAVE MODEL BY URBAN ACCESSORIES OR APPROVED EQUIVALENT. LOCAL DISTRIBUTOR IS FOX ASSOCIATES OF HOPE, MAINE (207-763-4410).
  - TRENCH GRATE SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
  - ALL TRENCH GRATES SHALL BE H-20 LOAD RATED.

### SIDEWALK INLET GRATE DETAIL

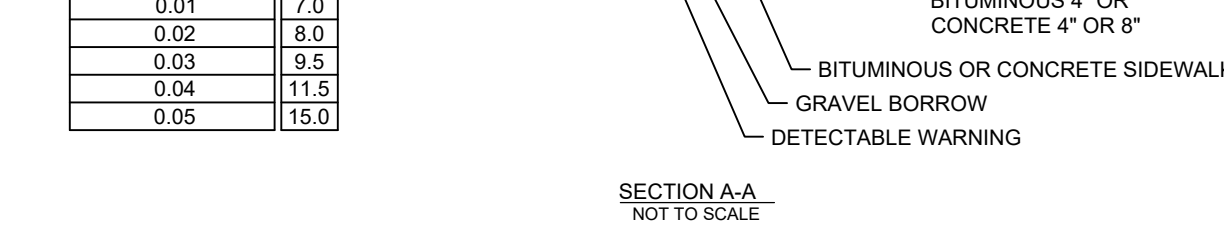


- NOTE:**
- COLOR: WHITE
  - ALL PAINT SHALL BE NON-SKID.
  - CROSSWALK STRIPING SHOULD BE SPACED SO THAT LINES ARE NOT IN WHEEL PATHS.
  - SPACING SHOULD NOT EXCEED 2.5 TIMES THE WIDTH OF THE LINE.
  - ALL OTHER ROAD OR PARKING STRIPING TO BE 6" SOLID WHITE PAINTED LINES, UNLESS NOTED OTHERWISE.

### TYPICAL PAINTED CROSSWALK STRIPING

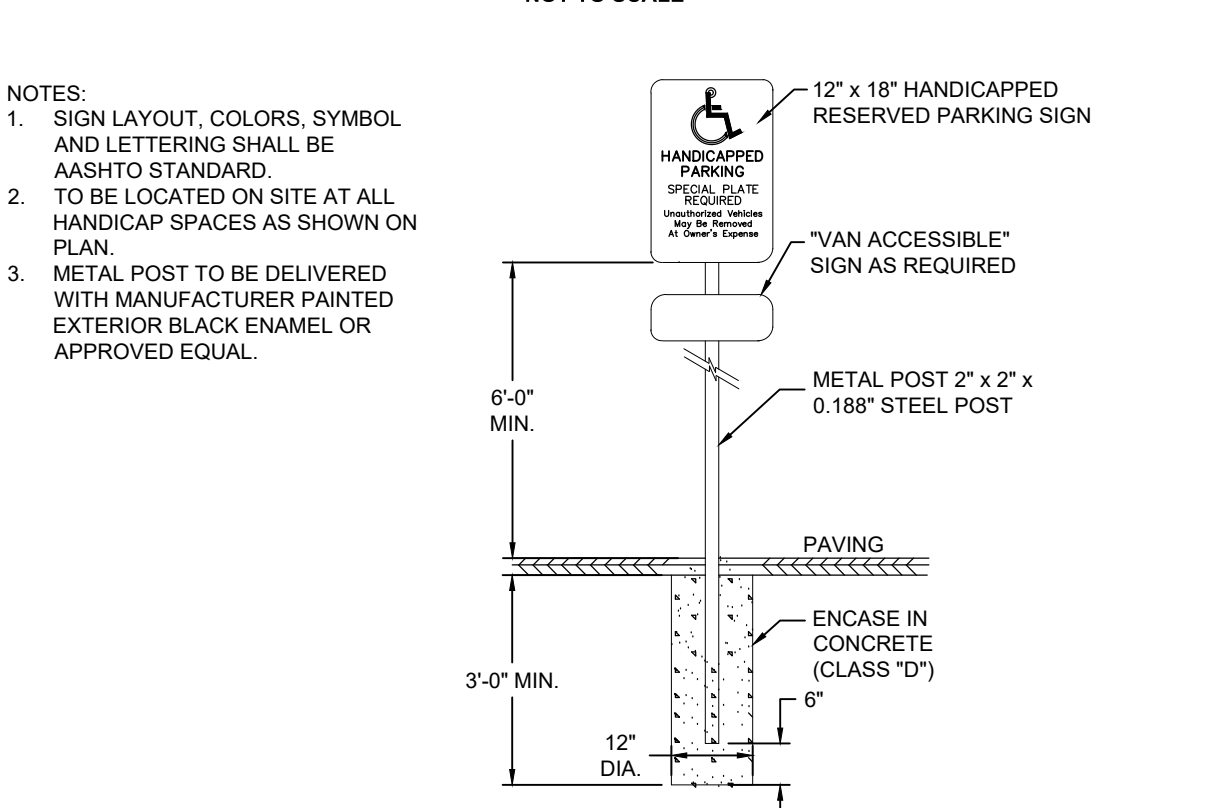


ROADWAY PROFILE GRADE	T (FT.)
0.00	6.0
0.01	7.0
0.02	8.0
0.03	9.5
0.04	11.5
0.05	15.0

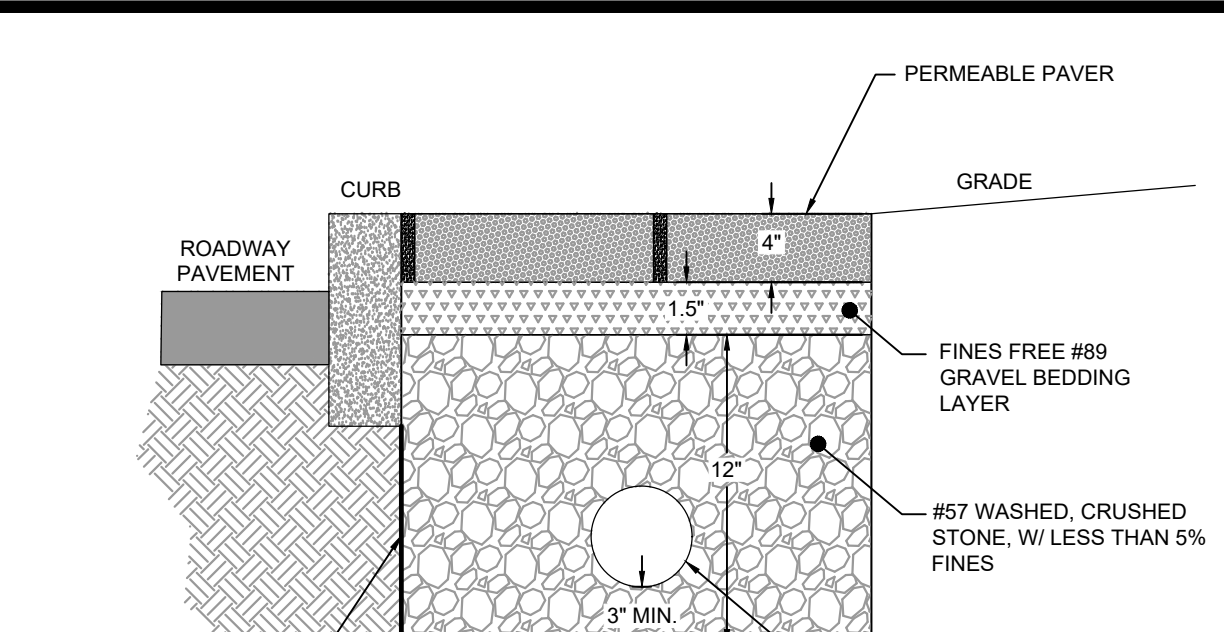


- NOTES:**
- SLOPES SHOWN ARE MAX ALLOWED PER RAMP TYPE. REDUCE SLOPES WHERE AVAILABLE.
  - BROOM FINISH CONCRETE PERPENDICULAR TO SLOPE.
  - FORM GROOVES 1/4" x 1/4" 6" O.C. AT 45 DEGREES TO CURB ON CONCRETE SLOPES.
  - ALL CONCRETE SHALL BE 4000 PSI TYPE II & HAVE A MIN. DEPTH OF 6" WITH W.W. MESH (6x6w1.4xw1.4) FLAT SHEETS INSTALLED 2" FROM THE BOTTOM OF THE CONCRETE LAYER.
  - TRANSITION CURB BOTH SIDES OF RAMP (SEE DETAIL).

### HANDICAP RAMP TYPE 3

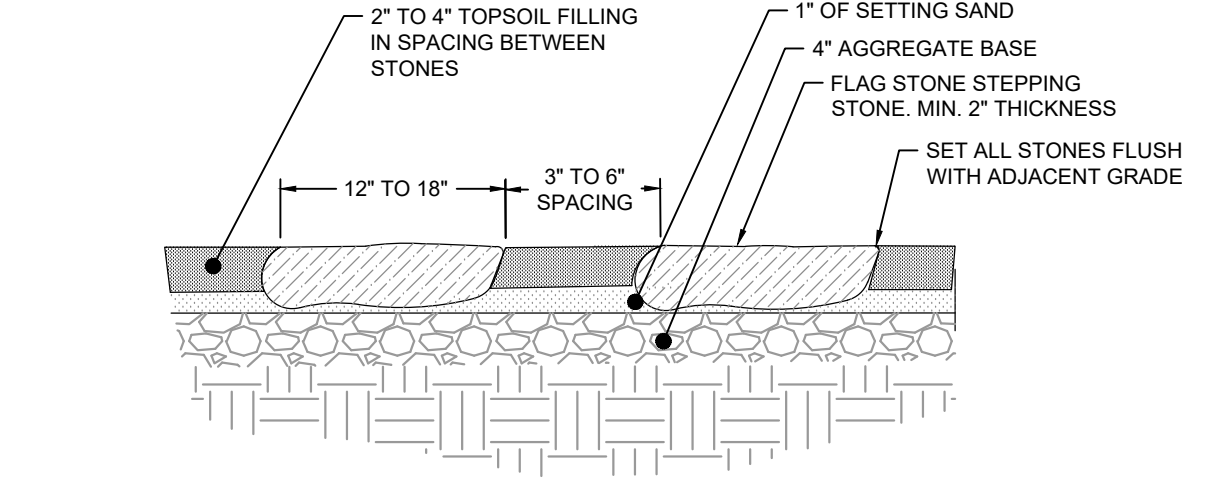


### HANDICAPPED PARKING SIGN



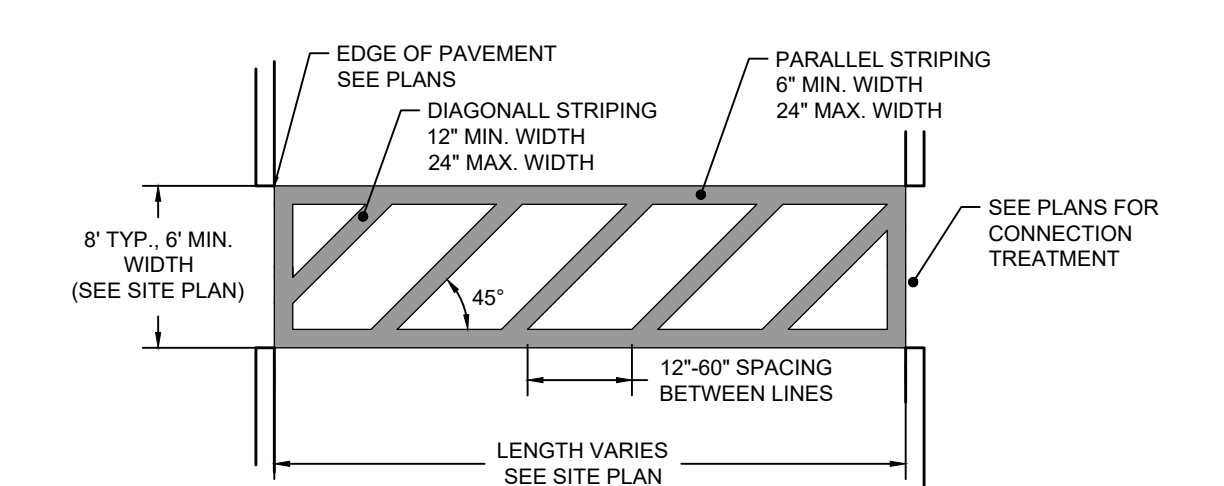
- NOTES:**
- SPACES BETWEEN FLAG STONE SHOULD BE FILLED WITH WELL DRAINED PREPARED TOPSOIL AND SEEDED. SEE LANDSCAPE PLANS.

### PERMEABLE PAVERS WITH UNDERDRAIN



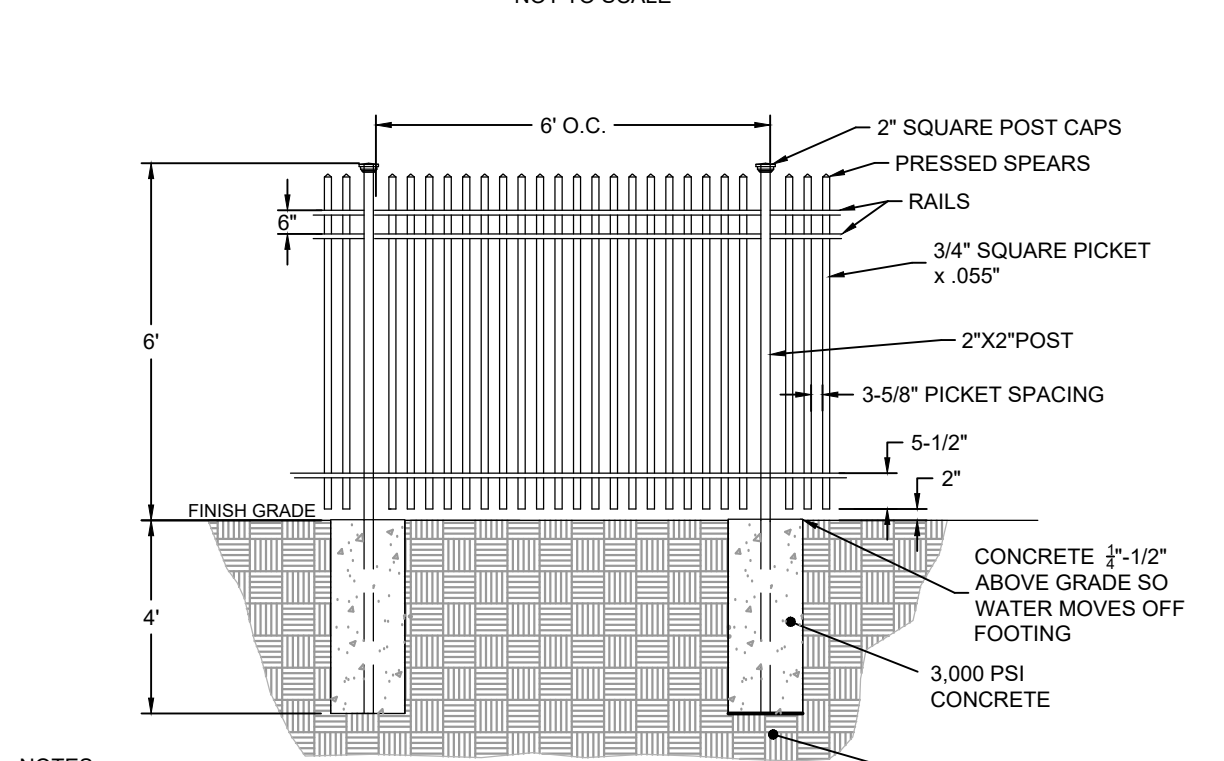
- NOTES:**
- BENCHES SHALL BE COMPLIANT WITH AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS.
  - BENCH MANUFACTURER: SEE SPECIFICATIONS.
  - BENCH STYLE: SEE SPECIFICATIONS.

### STEPPING STONES



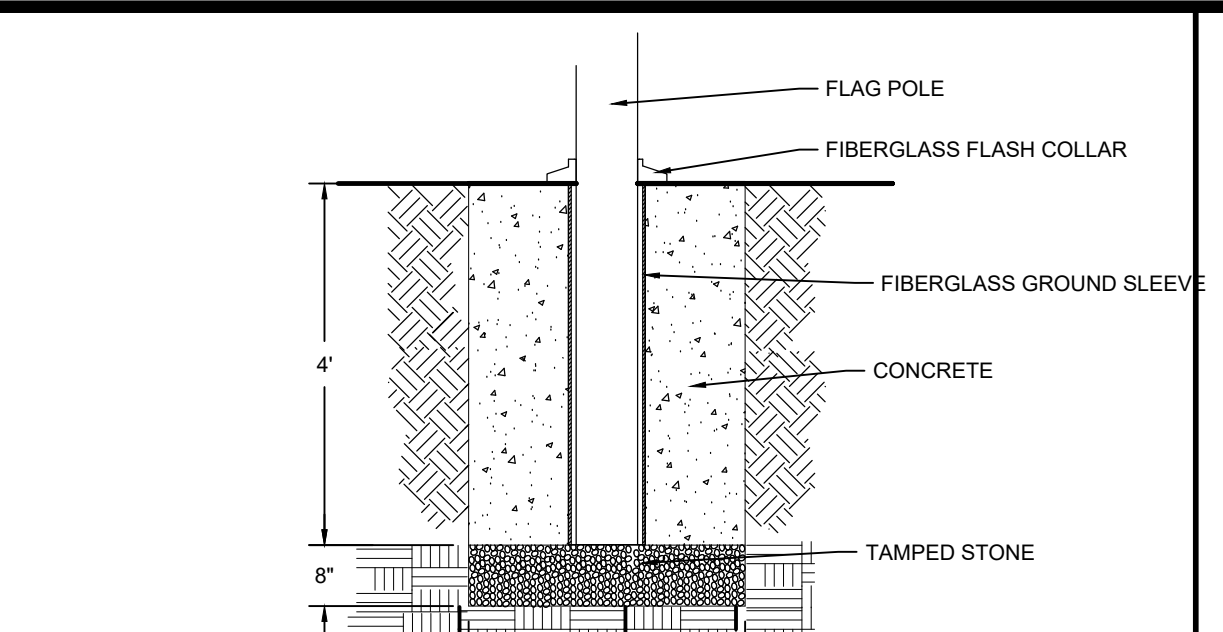
- NOTES:**
- ANCHOR BENCH TO CONCRETE PAD PER SPECIFICATIONS AND BENCH MANUFACTURER REQUIREMENTS.
  - BENCH MANUFACTURER: SEE SPECIFICATIONS.
  - BENCH STYLE: SEE SPECIFICATIONS.
  - BENCH PAD SHALL COMPLY WITH ADA REQUIREMENTS.

### ALUMINUM PICKET FENCE



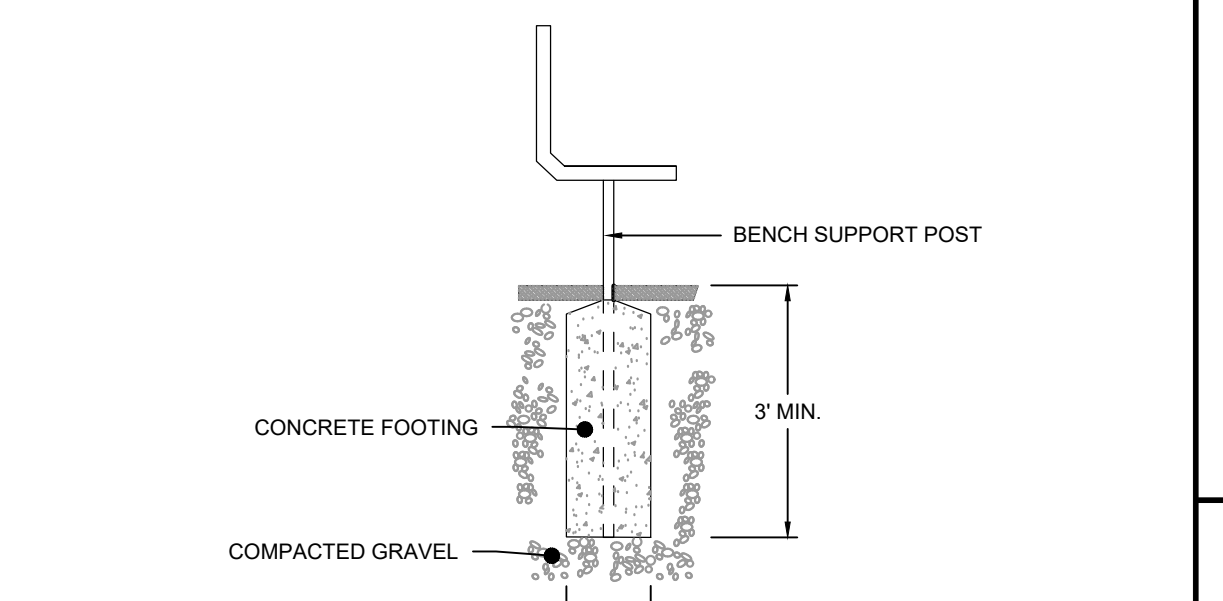
- NOTES:**
- MANUFACTURER: SEE SPECIFICATIONS
  - COMMERCIAL GRADE
  - COLOR: BLACK

### ALUMINUM PICKET FENCE



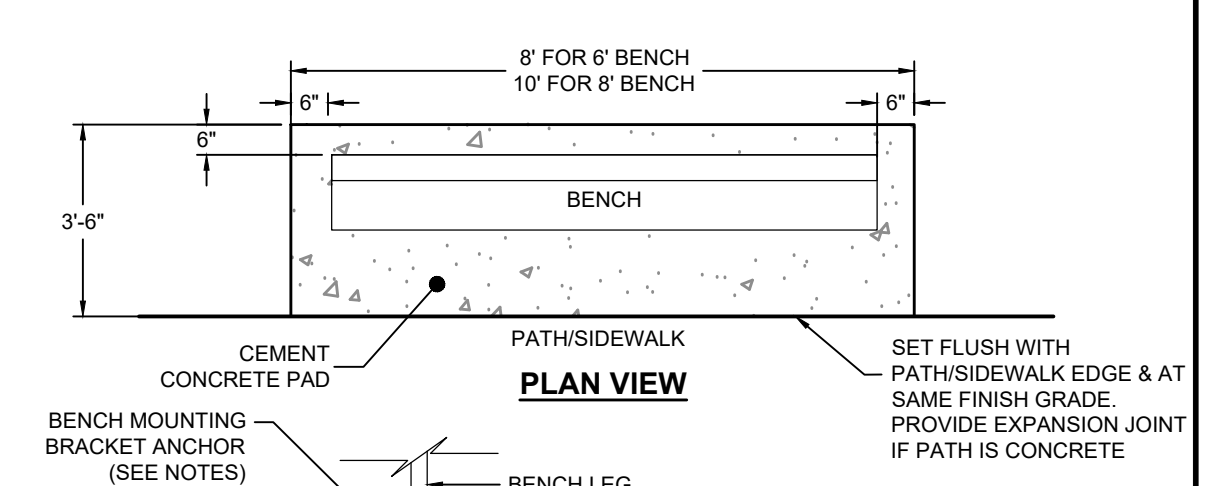
- NOTES:**
- ANCHOR BENCH TO CONCRETE PAD PER SPECIFICATIONS AND BENCH MANUFACTURER REQUIREMENTS.
  - BENCH MANUFACTURER: SEE SPECIFICATIONS.
  - BENCH STYLE: SEE SPECIFICATIONS.
  - BENCH PAD SHALL COMPLY WITH ADA REQUIREMENTS.

### FLAG POLE DETAIL



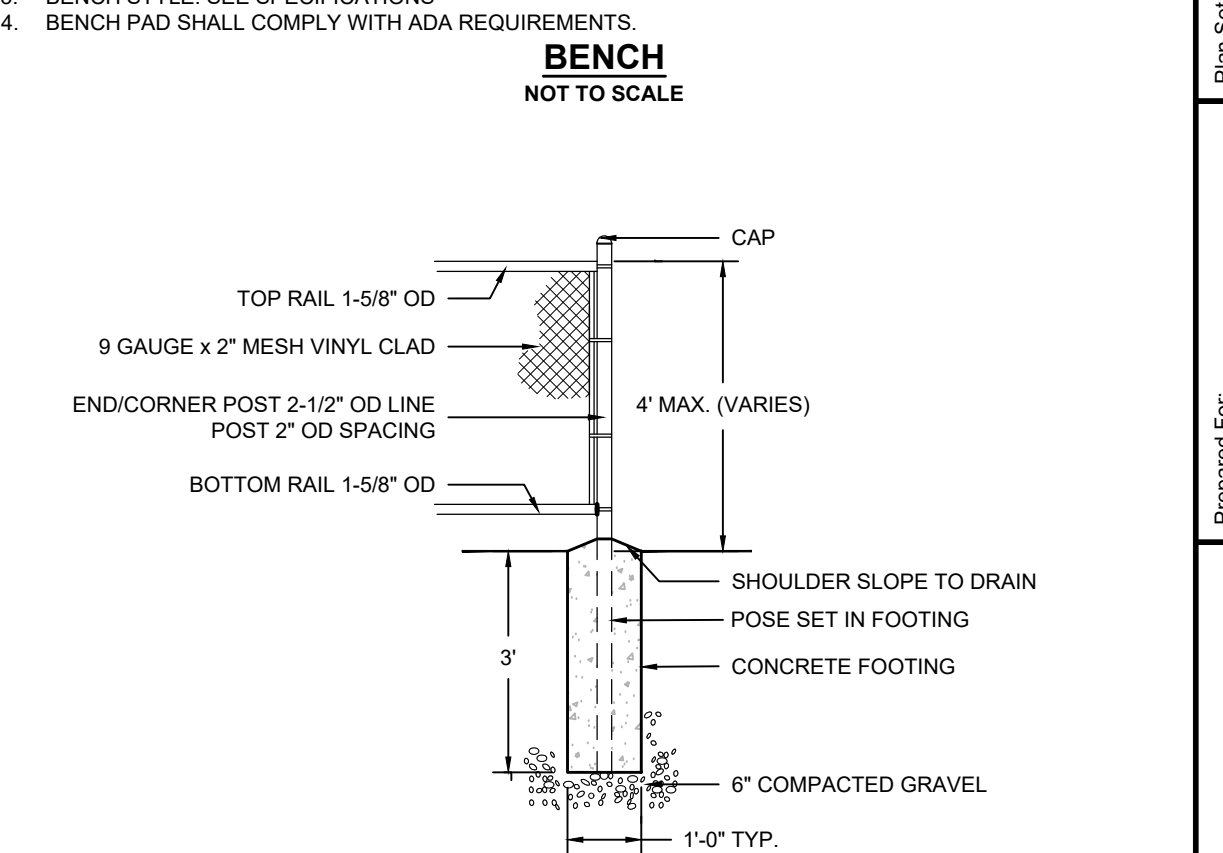
- NOTES:**
- ANCHOR BENCH TO CONCRETE PAD PER SPECIFICATIONS AND BENCH MANUFACTURER REQUIREMENTS.
  - BENCH MANUFACTURER: SEE SPECIFICATIONS.
  - BENCH STYLE: SEE SPECIFICATIONS.
  - BENCH PAD SHALL COMPLY WITH ADA REQUIREMENTS.

### BENCH SECTION



- NOTES:**
- ANCHOR BENCH TO CONCRETE PAD PER SPECIFICATIONS AND BENCH MANUFACTURER REQUIREMENTS.
  - BENCH MANUFACTURER: SEE SPECIFICATIONS.
  - BENCH STYLE: SEE SPECIFICATIONS.
  - BENCH PAD SHALL COMPLY WITH ADA REQUIREMENTS.

### BENCH SECTION



- NOTES:**
- MANUFACTURER: SEE SPECIFICATIONS
  - COMMERCIAL GRADE
  - COLOR: BLACK

### CHAIN LINK FENCE

Revisions	Date	By	Appr.	Description

Checked By: EWH  
 Drawn By: EWH  
 Designated By: EWH  
 Date: APRIL 2022

**Horsley Witten Group, Inc.**  
 Sustainable Environmental Solutions  
 80 Route 6A  
 Sandwich, MA 02563  
 508-833-6600 voice  
 508-833-3150 fax

**TOWN HALL CAMPUS RESTORATION PERMITTING PLANS**  
 MENDON, MASSACHUSETTS

Plan Title: CONSTRUCTION DETAILS 1

Prepared For:  
**Town of Mendon**  
 12 Main Street  
 Mendon, MA  
 Phone: (508) 833-2312  
 Fax: (508) 833-3150

Survey Provided By:  
**Horsley Witten Group, Inc.**  
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 Dated: DECEMBER 2021

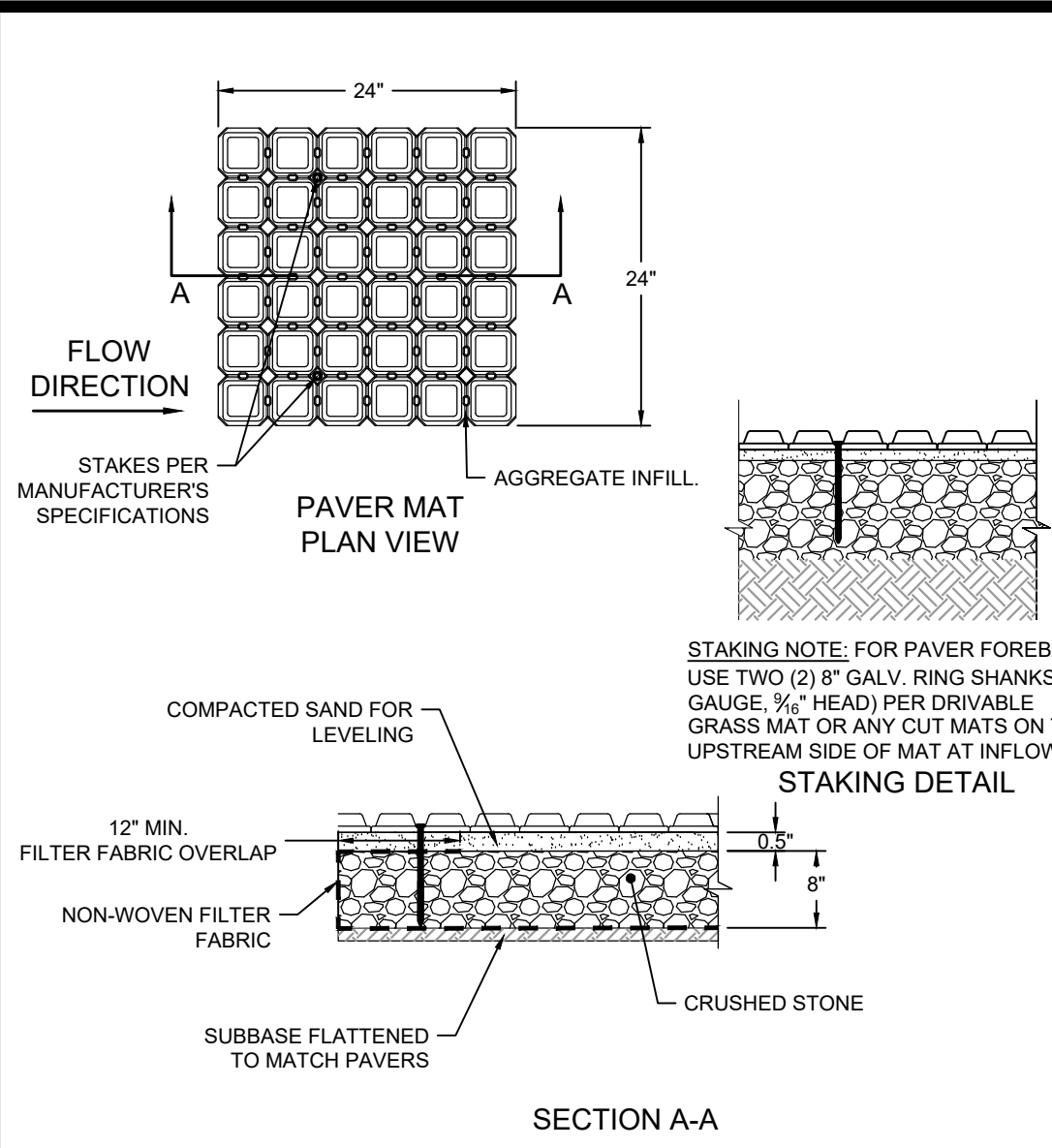
Registration:

**DRAFT NOT FOR CONSTRUCTION**

Project Number: 21127 Sheet: 9 of 12  
 Sheet Number: C-9

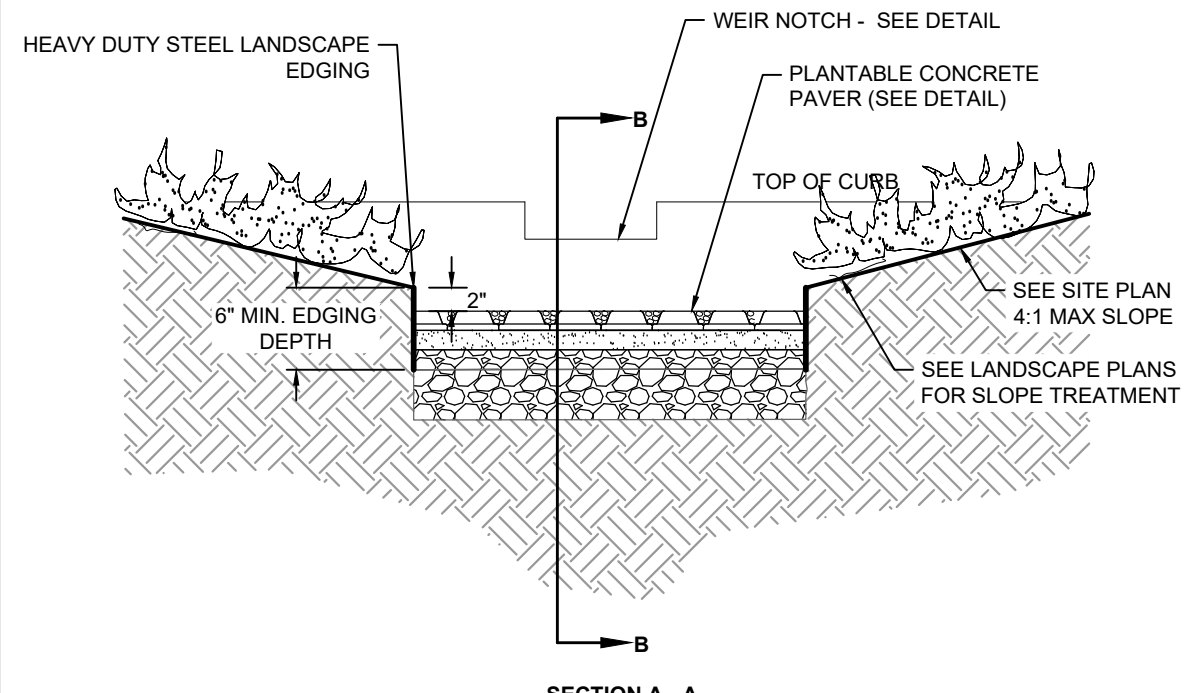
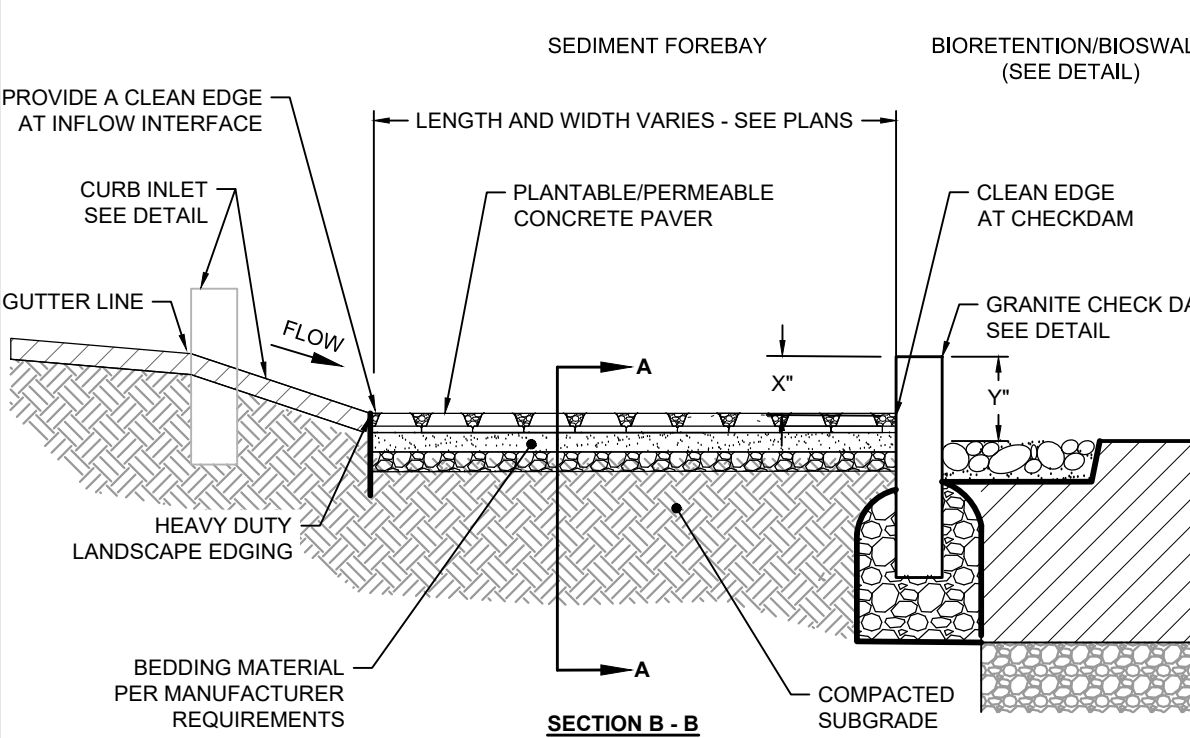
PERMIT SET NOT FOR CONSTRUCTION

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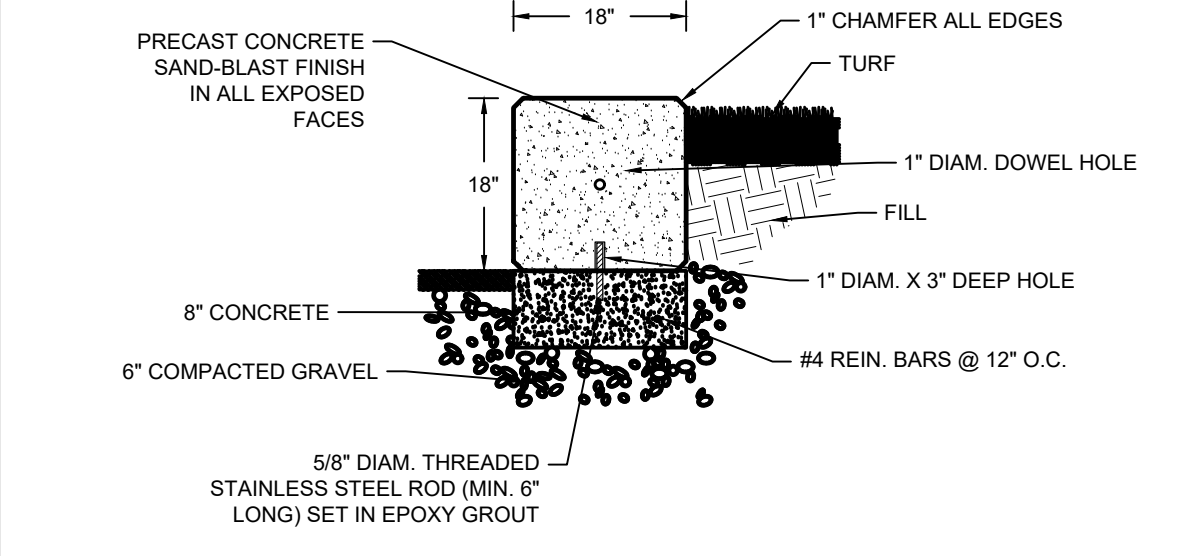
**NOTES:**  
 1. SEE SPECIFICATIONS FOR PLANTABLE CONCRETE PAVEMENTS.  
 2. REFER TO MANUFACTURERS REQUIREMENTS FOR ADDITIONAL INSTALLATION REQUIREMENTS.  
 3. FILTER FABRIC AROUND PERIMETER AND BOTTOM OF STONE BASE. KEY IN MINIMUM 6".

**PLANTABLE CONCRETE PAVERS**  
NOT TO SCALE

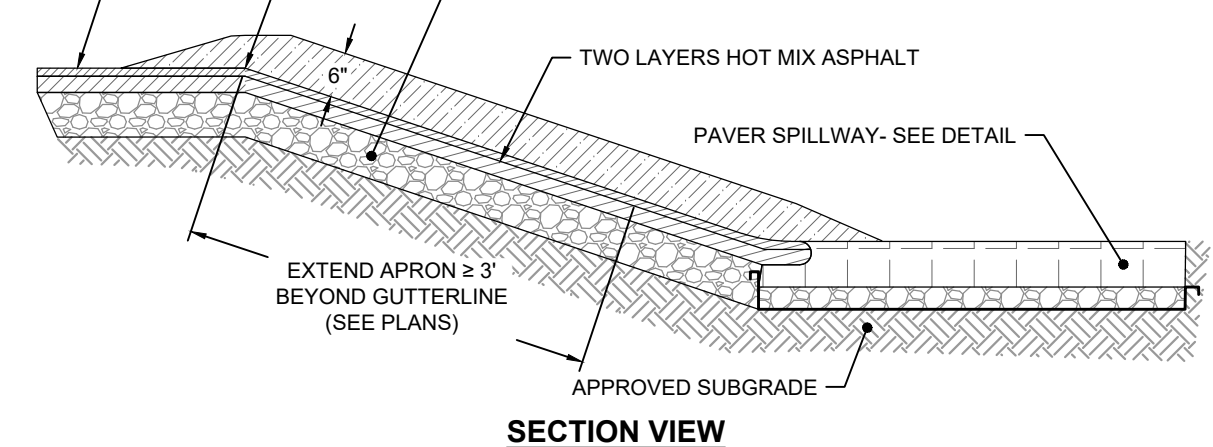
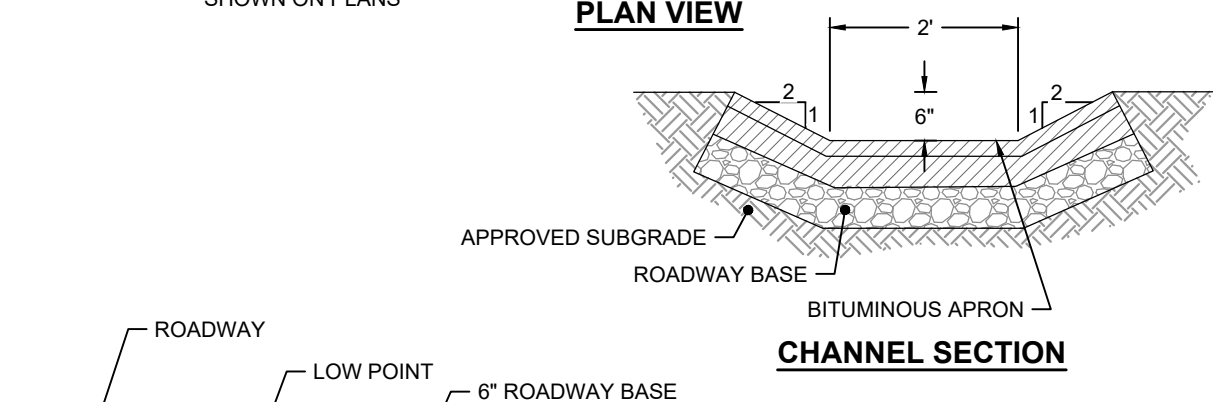
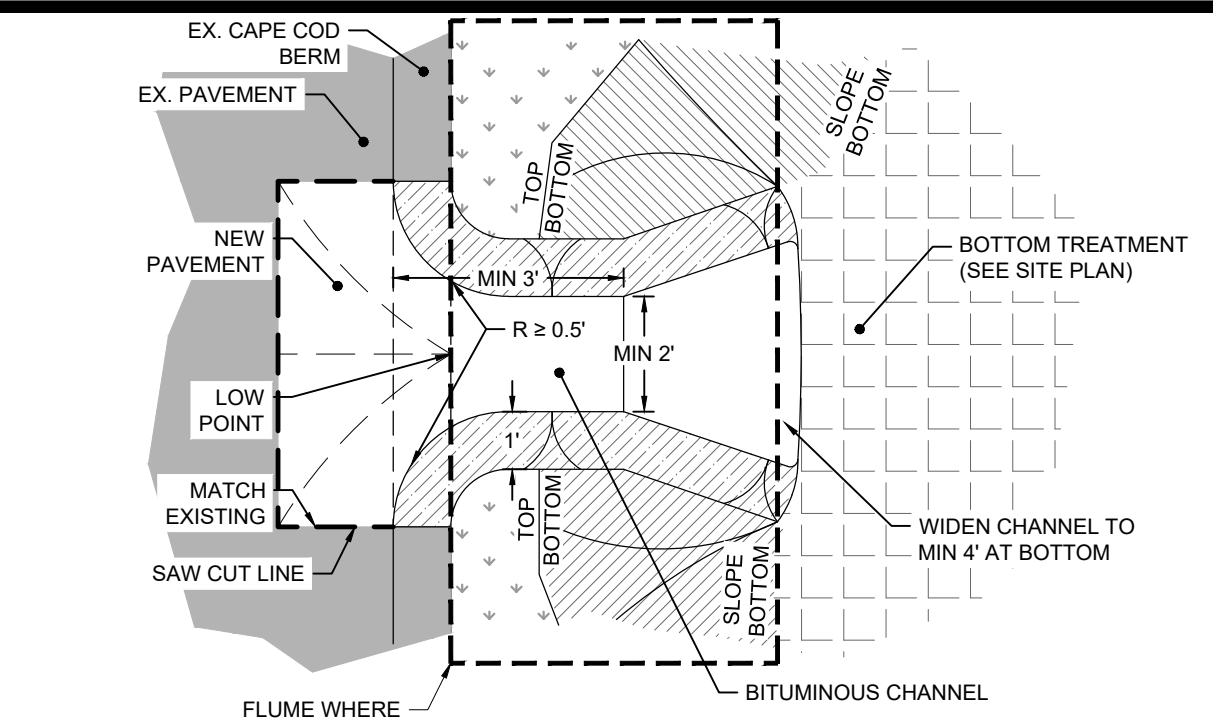


**NOTES:**  
 1. SEE SPECIFICATIONS FOR PLANTABLE/PERMEABLE PAVEMENTS.  
 2. INSTALL PLANTABLE/PERMEABLE PAVEMENT SYSTEM PER MANUFACTURERS REQUIREMENTS.  
 3. SHAPE FOREBAY AS REQUIRED WITH MIN. 6" SIDE SLOPE DEPTH.  
 4. LANDSCAPE EDGING: HEAVY DUTY STEEL LANDSCAPE EDGING (1/2" THICKNESS) WITH NATURAL FINISH.  
 5. SEE PLANS FOR DIMENSIONS GRADING AND ELEVATIONS FOR SEDIMENT FOREBAY.

**SEDIMENT FOREBAY**  
NOT TO SCALE

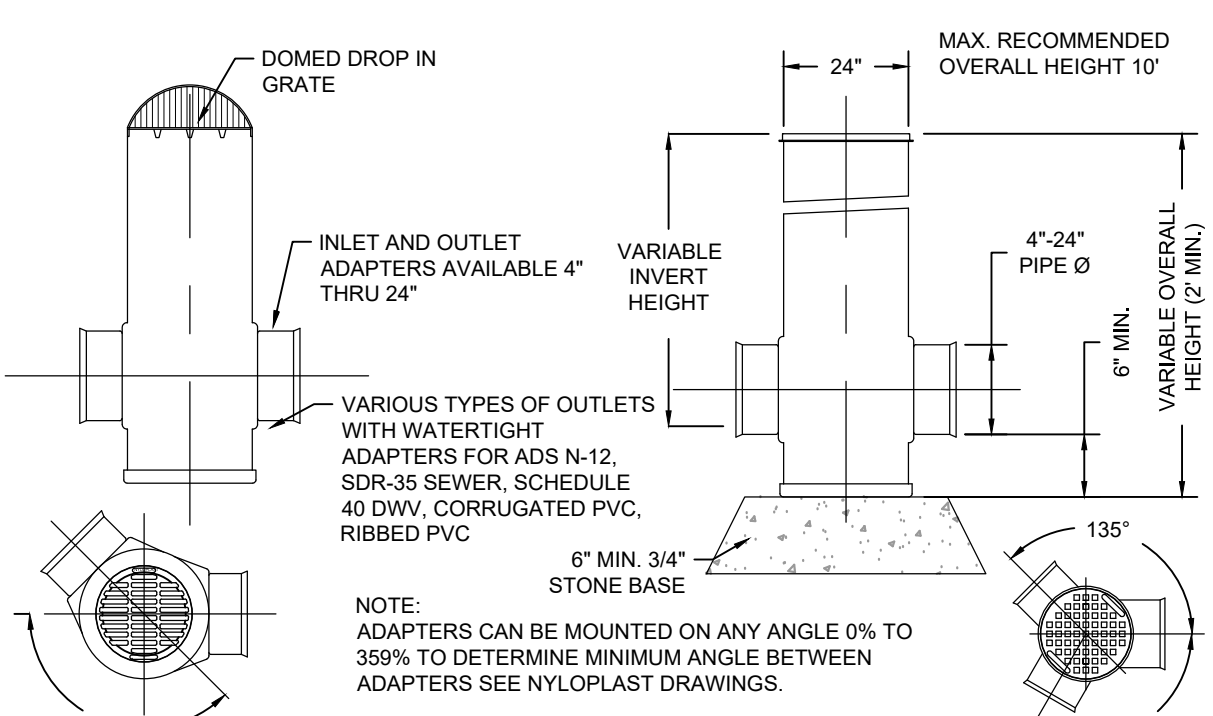
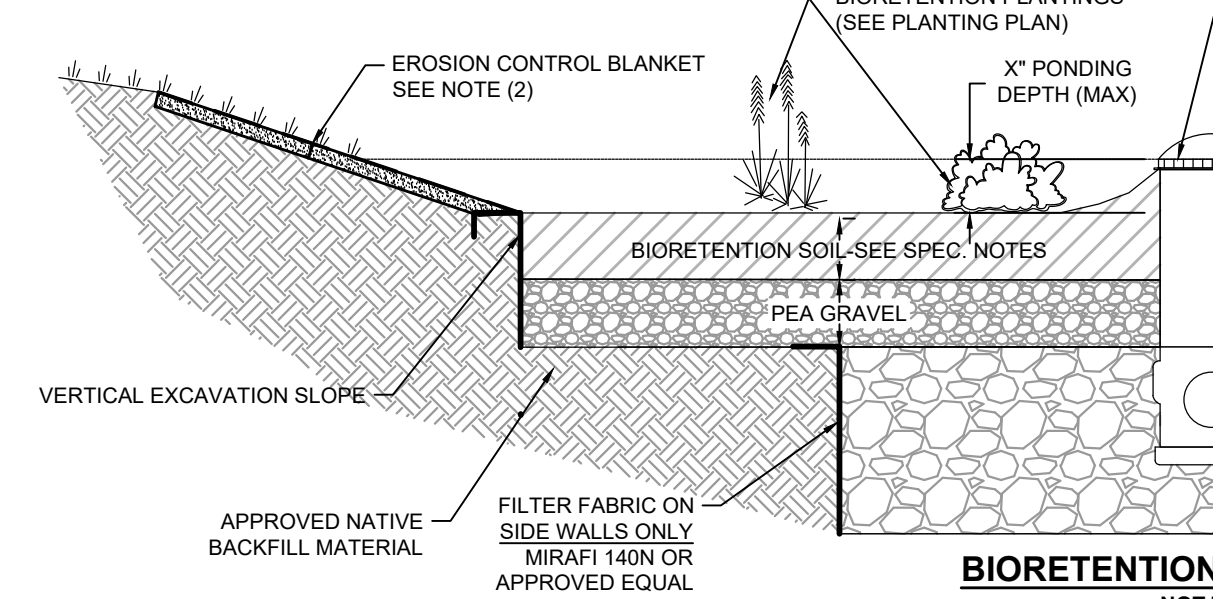


**CONCRETE SEATING WALL**  
NOT TO SCALE



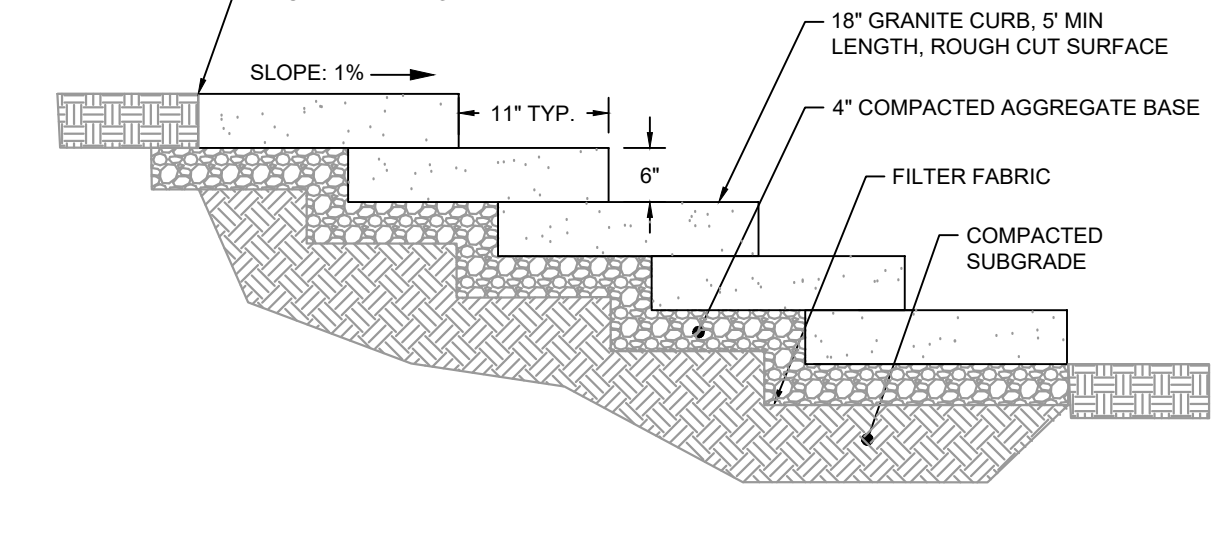
**PAVED FLUME WITH LOCAL DEPRESSION**  
NOT TO SCALE

**NOTES:**  
 1. CONTRACTOR RESPONSIBLE FOR SLOPE STABILIZATION AND SAFETY MEASURES DURING CONSTRUCTION. SIDE SLOPES TO BE 3:1 MAXIMUM SLOPE.  
 2. LOAM AND SEED SIDE SLOPES PER SPECIFICATIONS. USE BIONET S150BN BIODEGRADABLE EROSION CONTROL BLANKET OR APPROVED EQUIVALENT TO STABILIZE ALL SIDE SLOPES. THE REMAINING DISTURBED AREA SHALL BE LOAM & SEED OR LANDSCAPED PER PLANTING PLAN.

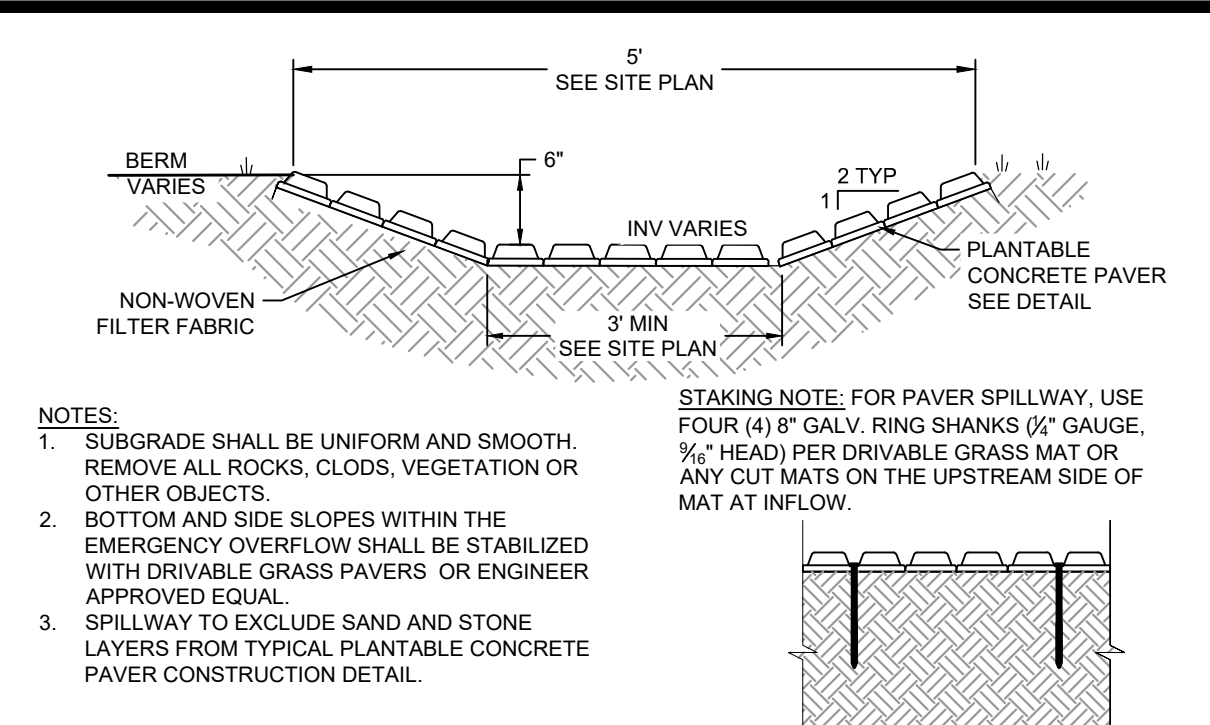


**OVERFLOW OUTLET DETAIL**  
NOT TO SCALE

BY "NYLOPLAST" OR APPROVED EQUIVALENT



**GRANITE CURB STEPS**  
NOT TO SCALE



**PAVER SPILLWAY**  
NOT TO SCALE

**NOTES:**  
 1. SUBGRADE SHALL BE UNIFORM AND SMOOTH. REMOVE ALL ROCKS, CLODS, VEGETATION OR OTHER OBJECTS.  
 2. BOTTOM AND SIDE SLOPES WITHIN THE EMERGENCY OVERTFLOW SHALL BE STABILIZED WITH DRIVABLE GRASS PAVERS OR ENGINEER APPROVED EQUAL.  
 3. SPILLWAY TO EXCLUDE SAND AND STONE LAYERS FROM TYPICAL PLANTABLE CONCRETE PAVEMENT CONSTRUCTION DETAIL.

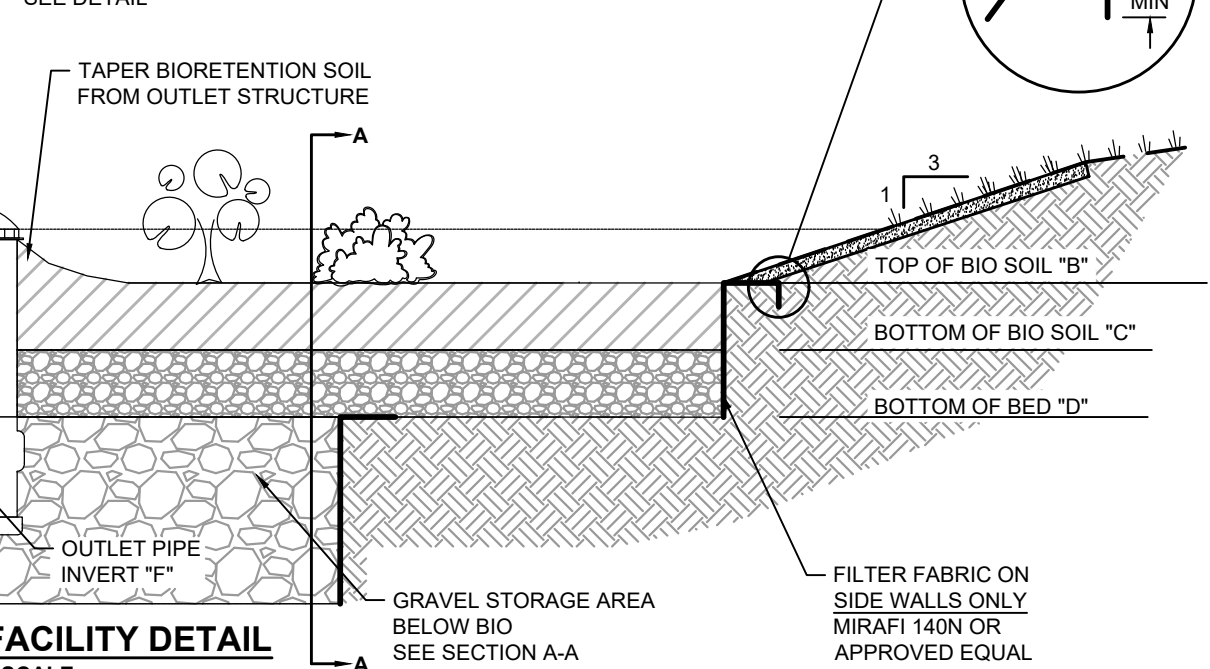


**STAKING NOTE:** FOR PAVEMENT SPILLWAY, USE FOUR (4) 8" GALV. RING SHANKS (1/2" GAUGE, 1/4" HEAD) PER DRIVABLE GRASS MAT OR ANY CUT MATS ON THE UPSTREAM SIDE OF MAT AT INFLOW.



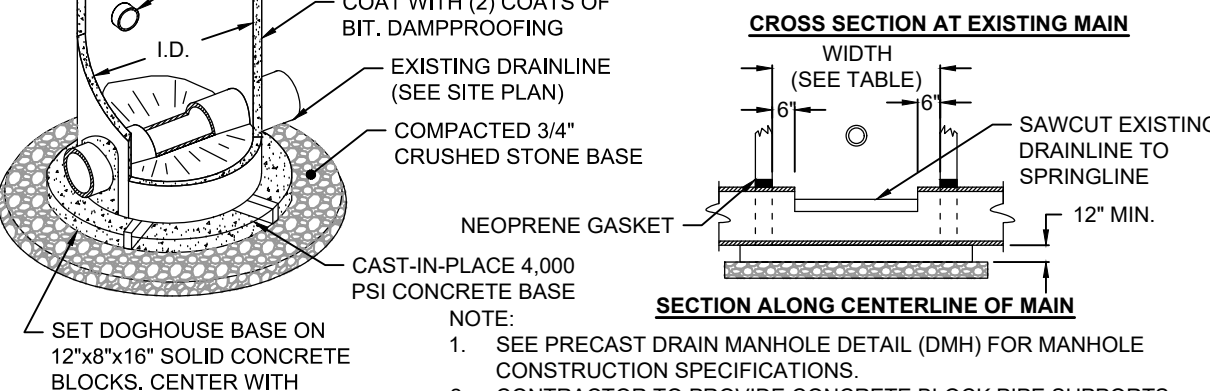
**BIORETENTION FACILITY DETAIL**  
NOT TO SCALE

**NOTES:**  
 1. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR TO EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH A FOUNDATION OF CLASS I OR II MATERIAL AS DEFINED IN ASTM D2321, "STANDARD PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS." LATEST EDITION, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A WOVEN GEOTEXTILE FABRIC.



**HDPE DRAINAGE PIPE TRENCH**  
NOT TO SCALE

**MINIMUM BEDDING THICKNESS TO BE 4" (100mm) FOR 4"-24" (100-600mm) AND 42"-48" (1050-1200mm) CORRUGATED POLYETHYLENE PIPE (CPEP). 8" (150mm) FOR 30"-36" (750-900mm) CPEP.**

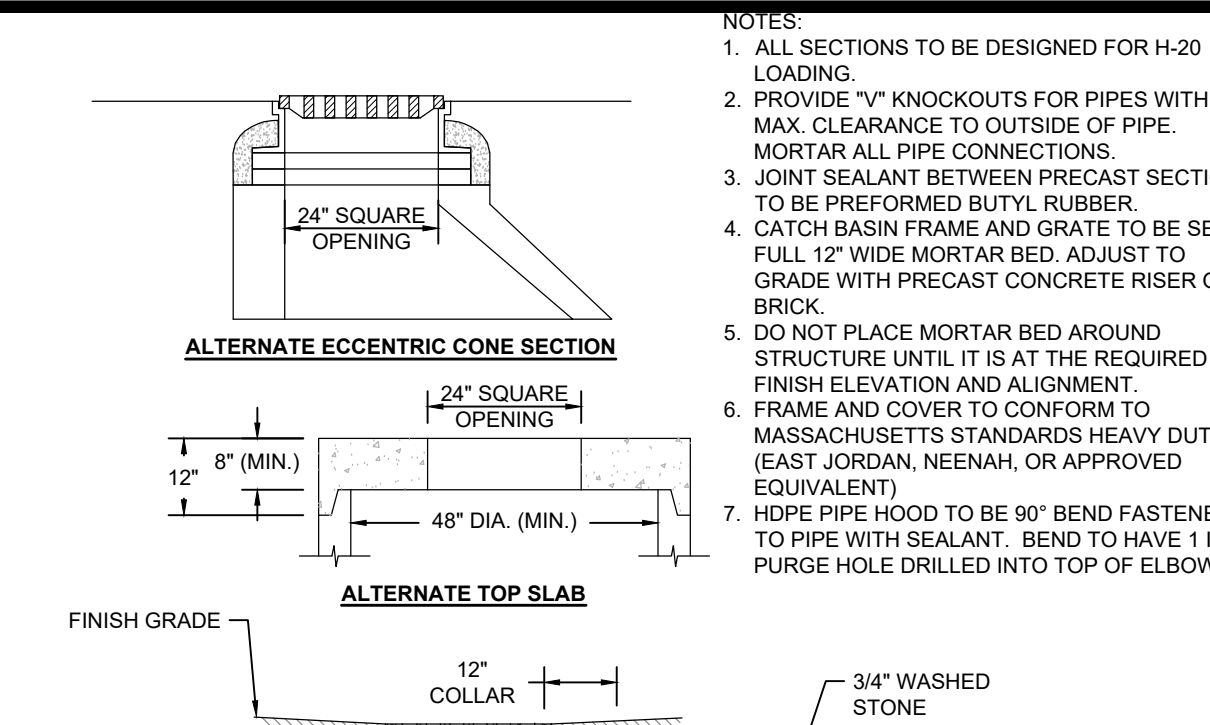


**DOGHOUSE MANHOLE INSTALLATION OVER EX. DRAIN LINE**  
NOT TO SCALE

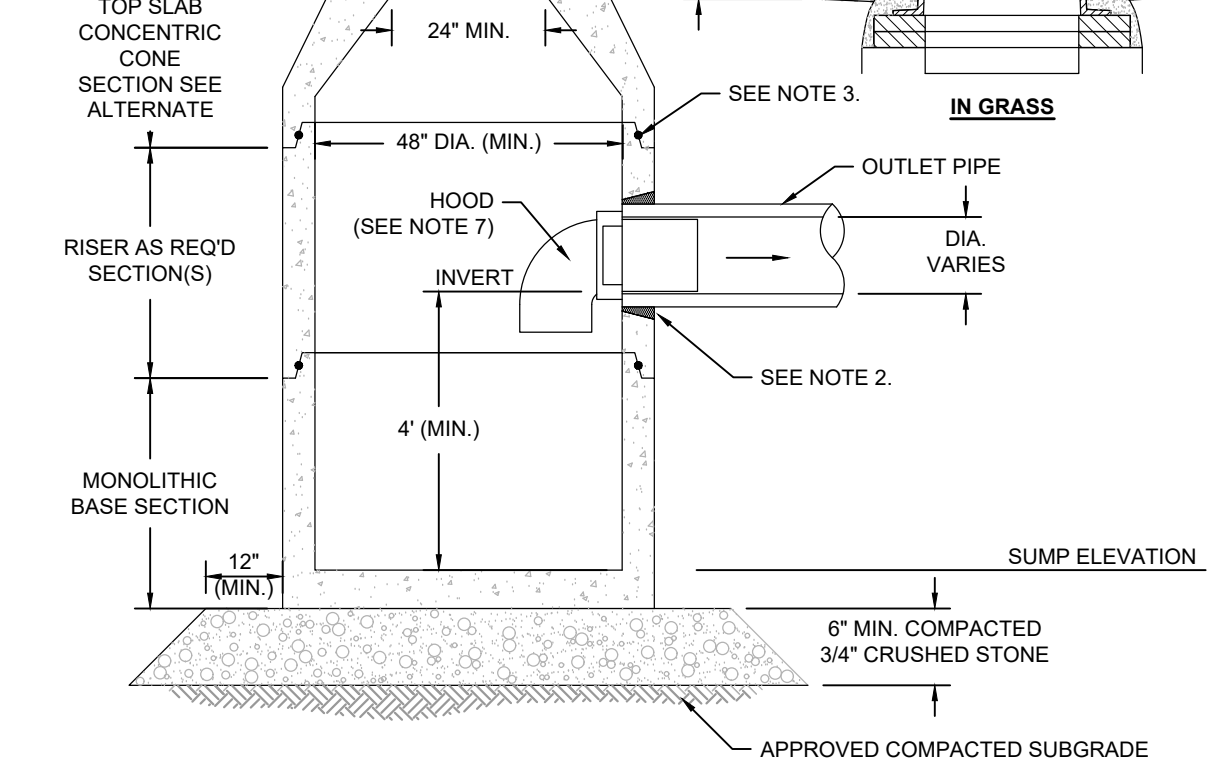
**NOTE:**  
 1. SEE PRECAST DRAIN MANHOLE DETAIL (DMH) FOR MANHOLE CONSTRUCTION SPECIFICATIONS.  
 2. CONTRACTOR TO PROVIDE CONCRETE BLOCK PIPE SUPPORTS AS NECESSARY ONCE HOLE IS EXCAVATED.



**CONCRETE SEATING WALL**  
NOT TO SCALE

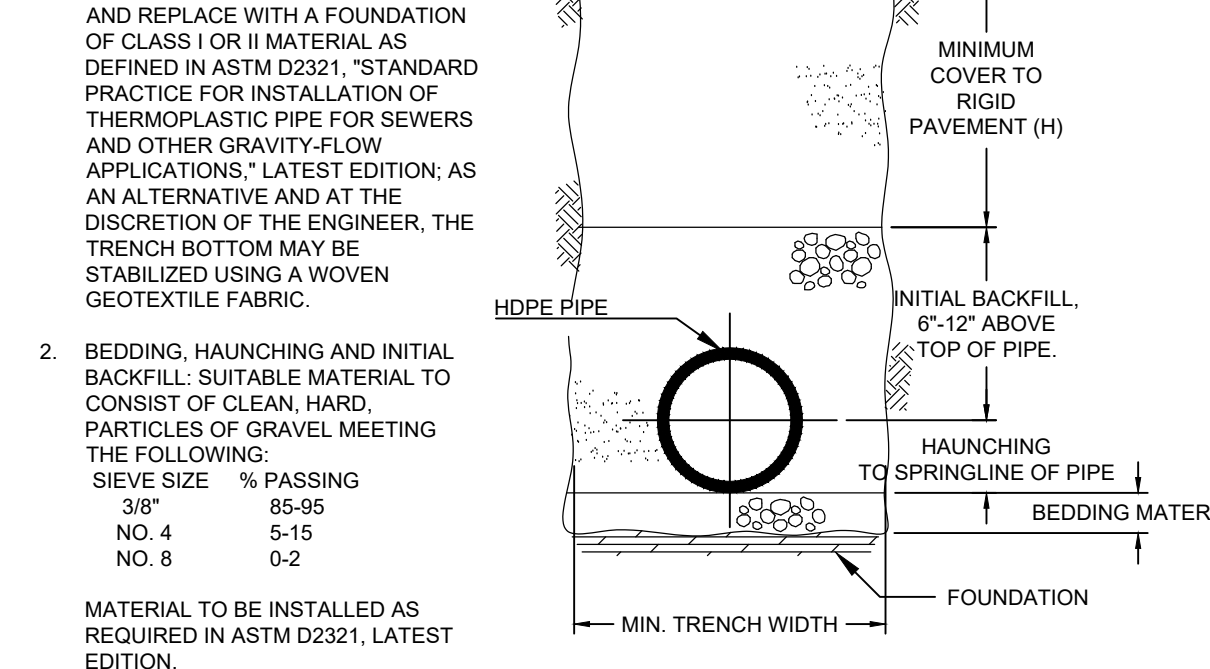


**ALTERNATE ECCENTRIC CONE SECTION**  
**ALTERNATE TOP SLAB**



**PRECAST CONCRETE CATCH BASIN (CB) WITH HOOD**  
NOT TO SCALE

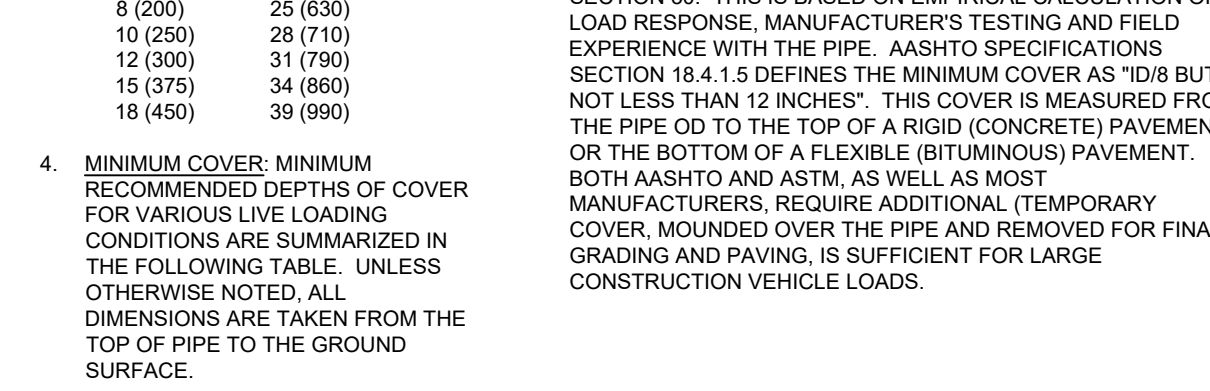
**NOTES:**  
 1. ALL SECTIONS TO BE DESIGNED FOR H-20 LOADING.  
 2. PROVIDE "V" KNOCKOUTS FOR PIPES WITH 2" MAX. CLEARANCE TO OUTSIDE OF PIPE. MORTAR ALL PIPE CONNECTIONS.  
 3. JOINT SEALANT BETWEEN PRECAST SECTIONS TO BE PREFORMED BUTYL RUBBER.  
 4. CATCH BASIN FRAME AND GRATE TO BE SET IN FULL 12" WIDE MORTAR BED. ADJUST TO GRADE WITH PRECAST CONCRETE RISER OR BRICK.  
 5. DO NOT PLACE MORTAR BED AROUND STRUCTURE UNTIL IT IS AT THE REQUIRED FINISH ELEVATION AND ALIGNMENT.  
 6. FRAME AND COVER TO CONFORM TO MASSACHUSETTS STANDARDS HEAVY DUTY (EAST JORDAN, NEENAH, OR APPROVED EQUIVALENT).  
 7. HOOD PIPE HOOD TO BE 90° BEND FASTENED TO PIPE WITH SEALANT. BEND TO HAVE 1 INCH PURGE HOLE DRILLED INTO TOP OF ELBOW.



**BIORETENTION FACILITY DETAIL**  
NOT TO SCALE

**MINIMUM TRENCH WIDTHS TO BE AS FOLLOWS:**

NOMINAL Ø in (mm)	MIN. TRENCH WIDTH, in (mm)	MIN. RECOMMENDED TRENCH WIDTH, in (mm)
8 (200)	25 (630)	28 (710)
10 (250)	28 (710)	31 (790)
12 (300)	31 (790)	34 (860)
15 (375)	34 (860)	39 (990)
18 (450)	39 (990)	44 (1120)



**CONCRETE SEATING WALL**  
NOT TO SCALE

**THE MINIMUM COVER FOR A HDPE PIPE IS 1'-0" FOR H-20 TRAFFIC LOADS IF INSTALLED IN ACCORDANCE WITH AASHTO SECTION 30. THIS IS BASED ON EMPIRICAL CALCULATION OF LOAD RESPONSE, MANUFACTURER'S TESTING AND FIELD EXPERIENCE WITH THE PIPE. AASHTO SPECIFICATIONS SECTION 18.4.1.5 DEFINES THE MINIMUM COVER AS "ID8 BUT NOT LESS THAN 12 INCHES". THIS COVER IS MEASURED FROM THE PIPE OD TO THE TOP OF A RIGID (CONCRETE) PAVEMENT OR THE BOTTOM OF A FLEXIBLE (BITUMINOUS) PAVEMENT. BOTH AASHTO AND ASTM, AS WELL AS MOST MANUFACTURERS, REQUIRE ADDITIONAL (TEMPORARY COVER MOUNTED OVER THE PIPE AND REMOVED FOR FINAL GRADING AND PAVING, IS SUFFICIENT FOR LARGE CONSTRUCTION VEHICLE LOADS.**

Revisions	Date	By	Appr.	Description

**Horsley Witten Group, Inc.**  
 Sustainable Environmental Solutions  
 80 Route 6A  
 Mendon, MA 02563  
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 Fax: (508) 833-3150

Checked By: EWH  
 Drawn By: EWH  
 Designated By: EWH  
 Date: APRIL 2022

**TOWN HALL CAMPUS RESTORATION PERMITTING PLANS**  
 MENDON, MASSACHUSETTS

CONSTRUCTION DETAILS 2

Prepared For:  
**Town of Mendon**  
 12 Main Street  
 Mendon, MA  
 Phone: (508) 473-2312  
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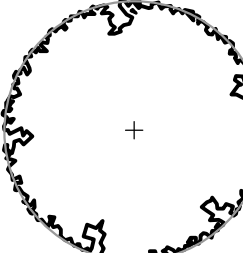
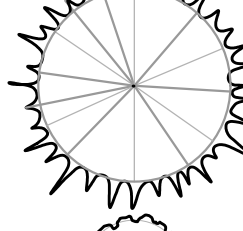

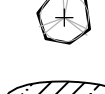



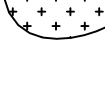
Survey Provided By:  
**Horsley Witten Group, Inc.**  
 80 Route 6A  
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 Phone: (508) 833-6600  
 Fax: (508) 833-3150  
 Dated: DECEMBER 2021

Registration:  
 Project Number: 21127  
 Sheet: 10 of 12  
 Sheet Number: C - 10

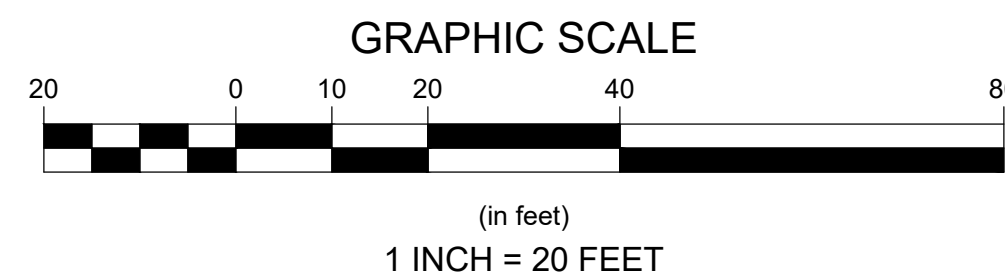
**PERMIT SET**  
**NOT FOR CONSTRUCTION**

**DRAFT**  
**NOT FOR CONSTRUCTION**

LEGEND:

-  EXISTING CANOPY TREE
  -  PROPOSED CANOPY TREE
  -  PROPOSED EVERGREEN TREE
  -  PROPOSED LARGE SHRUB
  -  PROPOSED SMALL SHRUB
  -  BIORETENTION PLANTS & SEED 3 (FOX SEDGE) (880 SF)
  -  PLANTER BOX PLANTS
  -  SEED MIX 1 - MOW AS NEEDED TURF - MATCH EXISTING MIX (1/4-9,175 SF)
  -  SEED MIX 2 - NO MOW WILDLIFE CONSERVATION MIX (13,300 SF)
- VIRGINIA WILD RYE    INDIAN GRASS  
 LITTLE BLUESTEM    BLUE VERNAIN  
 BIG BLUESTEM    BUTTERFLY MILKWEED  
 RED FESCUE    BLACK EYED SUSAN  
 SWITCH GRASS    COMMON SNEEZEWEED  
 PARTRIDGE PEA    HEATH ASTER  
 PANICLED LEAF-TICK    EARLY GOLDENROD  
 TREFOIL    UPLAND BENTGRASS

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**PERMIT SET  
NOT FOR CONSTRUCTION**

Master Plant List					
Key	Botanical Name	Common Name	Size	Spacing	Notes
<b>Trees</b>					
AR 3	<i>Acer rubrum</i>	Red Maple	2" cal.	As Shown	
AS 4	<i>Acer saccharum</i>	Sugar Maple	2" cal.	As Shown	
BN 2	<i>Betula nigra</i>	Heritage River Birch	10/12" B&B	As Shown	Multi Stem
QM 2	<i>Quercus macrocarpa</i>	Bur Oak	1.5"-2" cal	As Shown	
QR 2	<i>Quercus rubra</i>	Red Oak	1.5"-2" cal	As Shown	
TA 3	<i>Tilia americana</i>	American Basswood	1.5"-2" cal	As Shown	
<b>Evergreen Trees</b>					
JV 4	<i>Juniperus virginiana</i>	Eastern Red Cedar	8' - 10' h.	As Shown	
<b>Shrubs</b>					
AA 2	<i>Aronia arbutifolia</i> 'Brilliantissima'	Brilliantissima Red Chokeberry	#5	As Shown	
CA 6	<i>Ceanothus americanus</i>	New Jersey Tea	#3	As Shown	
FG 4	<i>Fothergilla gardenii</i>	Dwarf Fothergilla	#3	As Shown	
HV 1	<i>Hammamelis virginiana</i>	Common Witch Hazel	#7	As Shown	Multi Stem
IG 3	<i>Ilex glabra</i>	Inkberry	#5	As Shown	Straight Species
IV 3	<i>Ilex verticillata</i> 'Red Sprite'	Red Sprite Winterberry	#3	As Shown	
IVS 1	<i>Ilex verticillata</i> 'Southern Gentleman'	Southern Gentleman Winterberry	#5	As Shown	
LF 10	<i>Leucothoe fontanesiana</i>	Drooping Leucothoe	#3	As Shown	
RR 1	<i>Rhododendron maximum</i> 'Roseum'	Rosebay Rhododendron	#7	As Shown	
VD 1	<i>Viburnum dentatum</i>	Arrowwood Viburnum	#7	As Shown	
<b>Bioretention Plants</b>					
CA 170	<i>Carex appalachica</i>	Appalachina Sedge	Plugs	12" O.C.	
DC 100	<i>Deschampsia cespitosa</i>	Tufted Hair Grass	Plugs	12" O.C.	
LS 170	<i>Liatris spicata</i>	Blazing Star	Plugs	12" O.C.	
OF 170	<i>Oenothera fruticosa</i>	Narrow-leaved Sundrops	Plugs	12" O.C.	
PD 170	<i>Penstemon digitalis</i>	Beardtongue	Plugs	12" O.C.	
SS 170	<i>Schizachyrium scoparium</i>	Little Bluestem	Plugs	12" O.C.	
<b>Planting Bed &amp; Box Plants</b>					
AQ 18	<i>Aquilegia canadensis</i>	Red Columbine	Plugs	12" O.C.	
CE 18	<i>Carex eburnea</i>	bristleleaf sedge	Plugs	12" O.C.	
CL 18	<i>Chasmanthium latifolium</i>	Northern Sea Oats	Plugs	12" O.C.	
GM 48	<i>Geranium maculatum</i>	Wild Geranium	Plugs	12" O.C.	
HA 48	<i>Heuchera americana</i> 'Dale's Strain'	Dale's Strain Coral Bells	Plugs	12" O.C.	
TO 28	<i>Tradescantia</i> 'Sweet Kate'	Spiderwort	Plugs	12" O.C.	
<b>Grass Mixes</b>					
Seed 2	Wildlife Conservation / Wildlife Mix	Grass mix	Seed		
Virginia Wild Rye ( <i>Elymus virginicus</i> ), Little Bluestem ( <i>Schizachyrium scoparium</i> ), Big Bluestem ( <i>Andropogon gerardii</i> ), Red Fescue ( <i>Festuca rubra</i> ), Switch Grass ( <i>Panicum virgatum</i> ), Partridge Pea ( <i>Chamaecrista fasciculata</i> ), Panicledleaf Tick Trefoil ( <i>Desmodium paniculatum</i> ), Indian Grass ( <i>Sorghastrum nutans</i> ), Blue Vervain ( <i>Verbena hastata</i> ), Butterfly Milkweed ( <i>Asclepias tuberosa</i> ), Black Eyed Susan ( <i>Rudbeckia hirta</i> ), Common Sneezeweed ( <i>Helenium autumnale</i> ), Heath Aster ( <i>Aster pilosus</i> /Symphyotrichum pilosum), Early Goldenrod ( <i>Solidago juncea</i> ), Upland Bentgrass ( <i>Agrostis perennans</i> )					
Seed 3	<i>Carex vulpinoidea</i> - Fox Sedge				

Revisions

Rev	Date	By	Description
1			
2			
3			
4			
5			

**Horsley Witten Group, Inc.**  
 Sustainable Environmental Solutions  
 90 Route 6A  
 Sandwich, MA 02563  
 508-833-6600 voice  
 508-833-3150 fax

Checked By: BRK  
 Drawn By: EEB  
 Designed By: EEB  
 Date: APRIL 2022

**TOWN HALL CAMPUS RESTORATION  
 PERMITTING PLANS  
 MENDON, MASSACHUSETTS**

LANDSCAPE PLAN

Prepared For:  
**TOWN of Mendon**  
 12 Main Street  
 Mendon, MA  
 Phone: (508) 473-2312  
 Fax: ---

Survey Provided By:  
**Horsley Witten Group, Inc.**  
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CONSTRUCTION

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**GENERAL PLANTING NOTES:**

- THE FOLLOWING NOTES ARE PROVIDED AS GENERAL PLANTING GUIDELINES ONLY. THOROUGHLY REVIEW THE PROJECT SPECIFICATIONS FOR ALL LANDSCAPE REQUIREMENTS PRIOR TO THE COMMENCEMENT OF ANY LANDSCAPE WORK. SUBMIT IN WRITING TO THE LANDSCAPE ARCHITECT ANY QUESTIONS OR CLARIFICATIONS REQUIRED AT A MINIMUM OF 30 DAYS PRIOR TO ORDERING ANY MATERIALS OR BEGINNING ANY LANDSCAPE CONSTRUCTION.
- SUBMIT TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL ALL REQUIRED LANDSCAPE SUBMITTALS AS DESCRIBED IN THE SPECIFICATIONS INCLUDING A PLANT LIST WITH PLANT SIZE AND QUANTITIES TO BE ORDERED PRIOR TO DELIVERY TO THE PROJECT SITE.
- FURNISH AND INSTALL ALL PLANTS AS SHOWN ON THE DRAWINGS AND IN THE SIZE AND QUANTITIES SPECIFIED ON THE PLANTING SCHEDULE. PLANT SUBSTITUTION SELECTION MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- ALL PLANTS TO COMPLY WITH APPLICABLE REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK," LATEST EDITION, PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION INC.
- PLANTS TO BE GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST TWO (2) YEARS. USE HEALTHY NURSERY GROWN PLANTS THAT HAVE A WELL DEVELOPED ROOT SYSTEM. PLANTS MUST BE FREE OF DISEASE, INSECTS, EGGS OR LARVAE.
- INSTALL PLANTS WITHIN ONE (1) WEEK OF PURCHASE. IF PLANTS ARE TO BE STORED AT THE SITE PRIOR TO PLANTING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THEY ARE PROPERLY MAINTAINED, WATERED, AND REMAIN HEALTHY.
- PROCEED WITH PLANTING ONLY WHEN EXISTING AND FORECASTED WEATHER CONDITIONS PERMIT. SUBMIT TO THE LANDSCAPE ARCHITECT IN WRITING THE PROPOSED PLANTING SCHEDULE. OBTAIN APPROVAL OF PLANTING SCHEDULE FROM THE LANDSCAPE ARCHITECT PRIOR TO PERFORMING ANY WORK.
- SEASONS FOR PLANTING:  

SPRING:		
DECIDUOUS:	APRIL 1 TO JUNE 15	
EVERGREEN:	APRIL 1 TO JUNE 15	
PERENNIALS:	APRIL 15 TO JUNE 1	
GROUNDCOVERS:	APRIL 15 TO JUNE 1	
FALL:		
DECIDUOUS:	SEPTEMBER 15 TO NOVEMBER 15	
EVERGREEN:	SEPTEMBER 15 TO NOVEMBER 15	
PERENNIALS:	SEPTEMBER 15 TO NOVEMBER 15	
GROUNDCOVERS:	SEPTEMBER 15 TO NOVEMBER 15	
- PLANTING UNDER FROZEN CONDITIONS WILL NOT BE PERMITTED. PLANTING BEFORE OR AFTER THE ABOVE REFERENCED PLANTING DATES WILL INCREASE THE LIKELIHOOD OF PLANT ESTABLISHMENT FAILURE. ANY DEVIATION FROM THE ABOVE REFERENCED PLANTING DATES IS UNDERTAKEN AT SOLE RISK OF THE CONTRACTOR AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY ADDITIONAL MAINTENANCE AND WATERING WHICH MAY BE REQUIRED TO ENSURE SATISFACTORY PLANT ESTABLISHMENT.
- FURNISH ONE YEAR MANUFACTURER WARRANTY AND MAINTENANCE PERIOD FOR TREES, PLANTS, AND GROUND COVER AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH. EXCEPTIONS ARE DEFECTS RESULTING FROM ABNORMAL WEATHER CONDITIONS UNUSUAL FOR WARRANTY PERIOD. MAINTENANCE PERIOD INCLUDES ALL PLANT AND SEED MATERIAL AND INVASIVE MANAGEMENT. THE DATE OF FINAL ACCEPTANCE OF ALL COMPLETED PLANTING WORK ESTABLISHES THE END OF INSTALLATION PERIOD AND THE COMMENCEMENT OF THE GUARANTEE WARRANTY AND MAINTENANCE PERIOD.
- ALL TREES WITHIN 5'-0" OF WALKWAYS AND SIDEWALKS TO HAVE A 6'-8" STANDARD BRANCHING HEIGHT. ALL TREES OVER DRIVE AISLES TO BE TRIMMED TO A HEIGHT OF 15'.
- INSPECT ALL AREAS TO BE PLANTED OR SEEDED PRIOR TO STARTING ANY LANDSCAPE WORK. REPORT ANY DEFECTS SUCH AS INCORRECT GRADING, INCORRECT SUBGRADE ELEVATIONS OR DRAINAGE PROBLEMS, ETC. TO THE LANDSCAPE ARCHITECT AND ENGINEER PRIOR TO BEGINNING WORK. COMMENCEMENT OF WORK INDICATES ACCEPTANCE OF SUBGRADE AREAS TO BE PLANTED, AND THE LANDSCAPE CONTRACTOR ASSUMES RESPONSIBILITY FOR ALL LANDSCAPE WORK.
- PROVIDE PROPER PREPARATION OF ALL PROPOSED PLANTED AND SEEDED AREAS PER THE NOTES AND SPECIFICATIONS.
- ALL PLANT LAYOUT AND ACTUAL PLANTING LOCATIONS ARE TO BE FIELD VERIFIED BY LANDSCAPE ARCHITECT PRIOR TO PLANTING. NOTIFY THE LANDSCAPE ARCHITECT AT A MINIMUM OF 48 HOURS IN ADVANCE PRIOR TO SCHEDULING ANY FIELD INSPECTIONS.
- BALL AND BURLAP: REMOVE BURLAP AND WIRE BASKETS FROM TOPS OF BALLS AND FROM TOP HALF OF ROOTBALL AS INDICATED ON DRAWINGS.
- POTTED PLANTS: REMOVE THE PLANT FROM THE POT AND LOOSEN OR SCORE THE ROOTS BEFORE PLANTING TO PROMOTE OUTWARDS ROOT GROWTH INTO THE SOIL.
- PLUGS: PLANT UPRIGHT AND NOT AT AN ANGLE. DIG PLANTING HOLES LARGE ENOUGH AND DEEP ENOUGH TO ACCOMMODATE THE ENTIRE ROOT MASS. PLANT PLUGS WITH NO TWISTED OR BALLED ROOTS AND WITH NO ROOTS EXPOSED ABOVE THE GRADE LINE. HAND PACK THE SOIL AROUND THE ENTIRE PLUG ROOT MASS.
- DIG THE THE PLANTING HOLE TO THE SAME DEPTH AS THE ROOT BALL AND TWO TO THREE TIMES WIDER. SCORE ALL SIDES OF THE HOLE. PLACE THE PLANT IN THE HOLE SO THE TOP OF ROOT BALL IS EVEN WITH SOIL SURFACE. FILL THE HOLE HALFWAY AND THEN ADD WATER ALLOWING IT TO SEEP INTO BACK FILLED MATERIAL. BE SURE TO REMOVE ALL AIR POCKETS FROM BACK FILLED SOIL. DO NOT SPREAD SOIL ON TOP OF THE ROOTBALL. IF SOIL IS EXTREMELY POOR, REPLACE BACK FILL WITH GOOD QUALITY TOP SOIL. AMEND THE SOIL, AS NECESSARY.
- CREATE A 2" TO 4" BERM AROUND THE EDGE OF PLANTING HOLE WITH REMAINING SOIL TO RETAIN WATER.
- REMOVE ALL PLANT TAGS AND FLAGS FROM THE PLANTS.
- MULCH ALL PLANTING BEDS AS INDICATED ON DRAWINGS. UNLESS NOTED OTHERWISE, ALL PLANTS TO RECEIVE 2-3 INCHES OF MULCH. DO NOT MULCH BIORETENTION PRACTICES. DO NOT PILE OR MOUND MULCH AROUND THE PLANT STEMS OR TRUNK.
- TRIM BROKEN AND DEAD BRANCHES FROM TREES AND SHRUBS AFTER PLANTING. NEVER CUT A LEADER.
- ONLY USE FERTILIZER FOR TURF AREAS, AS RECOMMENDED BY THE SOIL ANALYSIS. DO NOT FERTILIZE IN BIORETENTION AREAS, OR FOR CONSERVATION SEED MIX.

**GENERAL SEEDING NOTES:**

- SEND A REPRESENTATIVE SAMPLE OF THE TOPSOIL TO A TESTING LABORATORY FOR STANDARD SOIL ANALYSIS AS DESCRIBED IN THE SPECIFICATIONS. SUBMIT TO THE LANDSCAPE ARCHITECT AND ENGINEER TEST RESULTS WITH RECOMMENDED SOIL TREATMENTS TO PROMOTE PLANT AND GRASS GROWTH. CORRECT DEFICIENCIES IN THE LOAM AND STOCKPILED TOPSOIL AS DIRECTED BY THE TESTING AGENCY. DO NOT OVER FERTILIZE TURF SOIL AND DO NOT FERTILIZE BIORETENTION AREAS.
- ALL AREAS THAT ARE DISTURBED AND/OR GRADED DURING CONSTRUCTION ARE TO BE BROUGHT TO FINISHED GRADE WITH AT LEAST 4" MINIMUM DEPTH OF GOOD QUALITY LOAM AND SEEDED WITH A QUICK GERMINATING GRASS SEED SUCH AS NEW ENGLAND EROSION CONTROL RESTORATION MIX OR AS SPECIFIED ON THE PLANS.
- PRIOR TO THE PLACEMENT OF TOP SOIL, LOOSEN THE SUBGRADE OF ALL PROPOSED SEEDED AREAS TO A DEPTH OF 6" AND RAKE TO REMOVE STONES LARGER THAN 1 INCH, STICKS, ROOTS, RUBBISH AND OTHER EXTRANEIOUS MATTER AND LEGALLY DISPOSE TO AN OFF SITE LOCATION.
- DO NOT SPREAD TOPSOIL IF THE SUBGRADE IS FROZEN, EXCESSIVELY WET, COMPACTED OR NOT PROPERLY PREPARED PER THE NOTES AND SPECIFICATIONS.
- SEE SPECIFICATIONS FOR SEASONAL REQUIREMENTS FOR SEEDING.

**WATERING NOTES:**

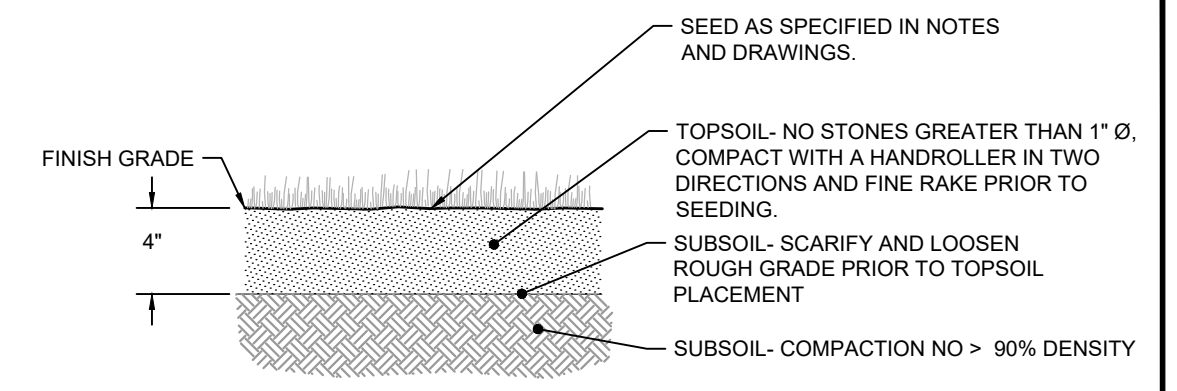
- PROVIDE PROPER PLANT CARE, MAINTENANCE AND WATERING ON SITE UNTIL SUCH TIME AS THE LANDSCAPING IS ACCEPTED BY THE PROPERTY OWNER AS SATISFACTORY PER THE SPECIFICATIONS OR AS DETERMINED BY ANY WRITTEN AGREEMENTS BETWEEN THE CONTRACTOR AND PROPERTY OWNER.
- ESTABLISH AN APPROPRIATE WATERING SCHEDULE FOR ALL PLANT MATERIAL BASED UPON PLANT SPECIES REQUIREMENTS AND SITE CONDITIONS. PROVIDE SCHEDULE IN WRITING TO THE LANDSCAPE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL. ADHERE TO THE APPROVED SCHEDULE UNTIL PLANTS ARE FULLY ESTABLISHED.
- ALL SEEDED AREAS SHOULD FOLLOW SUPPLIERS RECOMMENDATIONS FOR WATERING. SPECIAL CARE SHOULD BE TAKEN TO ENSURE THAT THE LAWN IS NOT SATURATED DURING WATERING. IF AN IRRIGATION SYSTEM IS NOT PROVIDED, A TEMPORARY IRRIGATION SYSTEM OR HANDHELD GARDEN HOSE SHALL BE USED FOR WATERING SEEDED AREAS. THE AREA MUST BE MAINTAINED CONSISTENTLY MOIST FOR THE BEST GERMINATION RESULTS. ADDITIONAL WATERING MAY BE REQUIRED IF PLANTING AND SEEDING OCCUR OUTSIDE OF THE RECOMMENDED PLANTING SEASONS.

**PLANTING LAYOUT NOTES:**

- FOR AREAS WITH MIXED PERENNIALS AND/OR GRASSES (SHOWN AS HATCHED AREAS ON PLANS), DO NOT PLANT IN A PATTERN OR WITH LARGE AREAS OF THE SAME SPECIES. RANDOMLY PLANT AS INDICATED ON THE PLANTING PLANS INTO SMALL GROUPINGS OF THE SAME SPECIES TO CREATE A MORE NATURALISTIC APPEARANCE. PLANT THE SAME PLANT SPECIES IN GROUPS OF 3-7 AND NOT LARGER THAN 7, DEPENDING ON THE OVERALL NUMBER OF PLANTINGS.

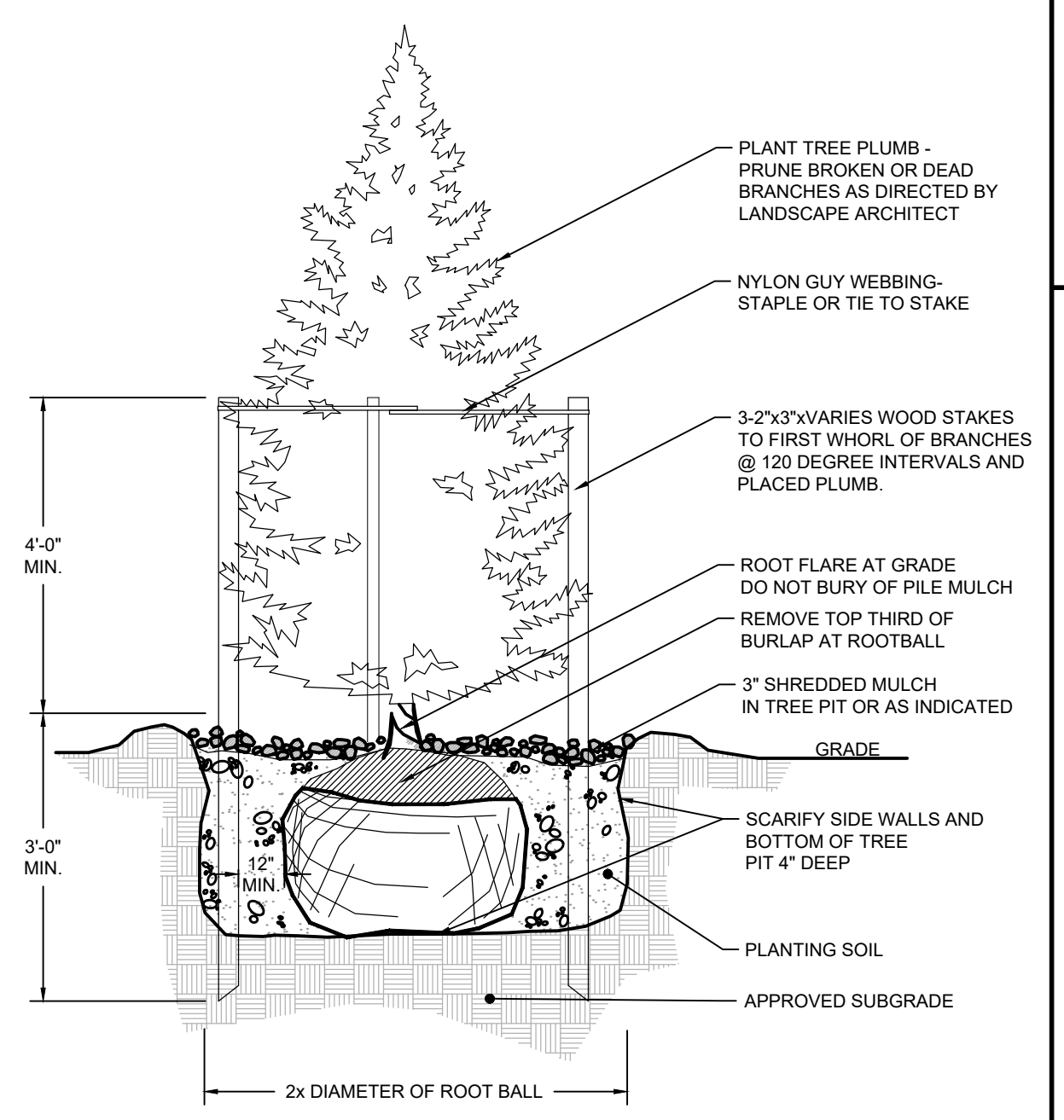
**INVASIVE SPECIES MANAGEMENT:**

- INVASIVE SPECIES MANAGEMENT SHOULD BE CUSTOMIZED TO THE INDIVIDUAL SPECIES FOLLOWING THE SPECIFIC MEASURES OUTLINED IN THE SPECIFICATIONS. MANAGERS SHOULD READ AND UNDERSTAND INVASIVE SPECIES CONTROL SPECIFICATIONS FOR THE SITE PRIOR TO COMMENCING ANY INVASIVE SPECIES MANAGEMENT ACTIVITIES.
- INVASIVE MANAGEMENT SHALL CONTINUE OVER THE LENGTH OF THE MAINTENANCE PERIOD: ONE YEAR AFTER FINAL ACCEPTANCE.
- THE USE OF HERBACIDES MUST BE APPROVED BY THE TOWN OF MENDON. ALL PESTICIDE APPLICATIONS MUST BE CONDUCTED BY A MASSACHUSETTS LICENSED PESTICIDE APPLICATOR.
- PRIOR TO CONSTRUCTION ALL INVASIVE SPECIES SHOULD BE IDENTIFIED AND MARKED BY A QUALIFIED PROFESSIONAL. THE FOLLOWING INVASIVE SPECIES WERE IDENTIFIED AT THE SITE. ANY OF THESE SPECIES, OR ANY INVASIVE ON THE MASSACHUSETTS INVASIVE SPECIES LIST, LOCATED WITHIN THE LIMIT OF WORK SHOULD BE REMOVED FOLLOWING THE MEASURES OUTLINED IN THE SPECIFICATIONS.
  - KNOTTWEED
- MONITOR ALL INVASIVE SPECIES AT THE SITE THROUGHOUT THE DURATION OF THE CONSTRUCTION PERIOD, AND ONE YEAR FOLLOWING FINAL ACCEPTANCE, DURING THE MAINTENANCE PERIOD. NEW GROWTH OF ANY INVASIVE SPECIES SHOULD BE REMOVED AS SOON AS IT IS DETECTED

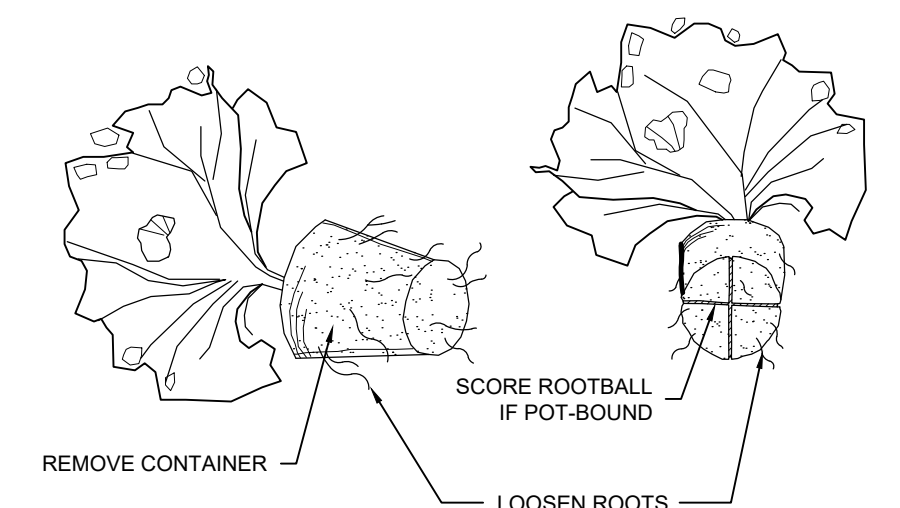


- NOTES:
- SEE LANDSCAPE GRADING SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
  - CONFIRM SUBGRADES ARE CORRECT AND POSITIVE DRAINAGE IS MAINTAINED PRIOR TO PLACEMENT OF TOPSOIL.
  - NOTIFY ENGINEER/LANDSCAPE ARCHITECT FOR REVIEW OF SUBGRADE PRIOR TO PLACEMENT OF THE TOPSOIL.

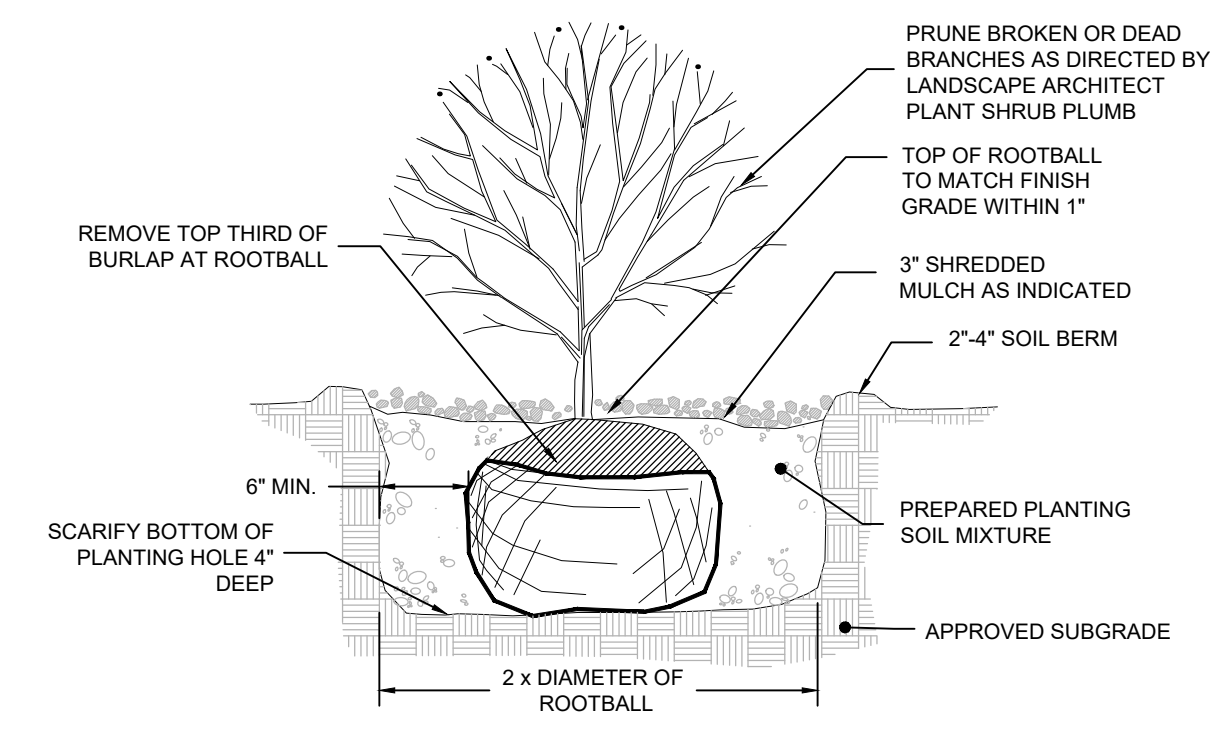
**LOAM AND SEED**  
NOT TO SCALE



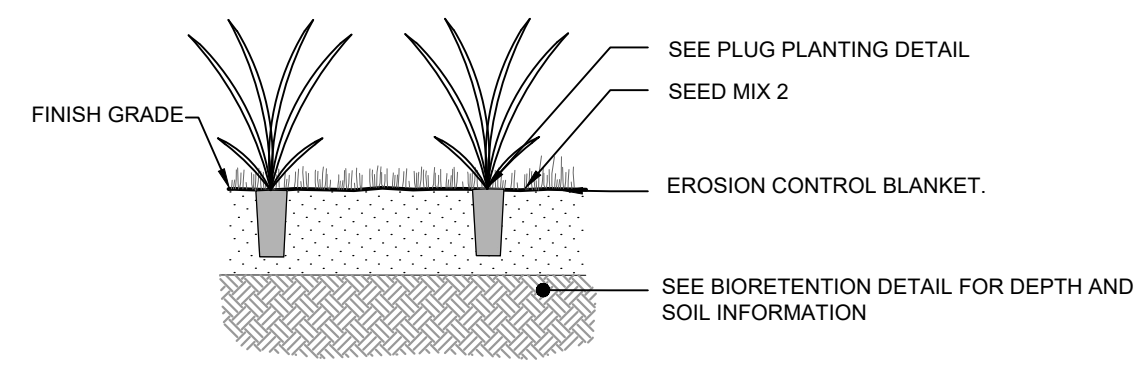
**EVERGREEN TREE PLANTING**  
NOT TO SCALE



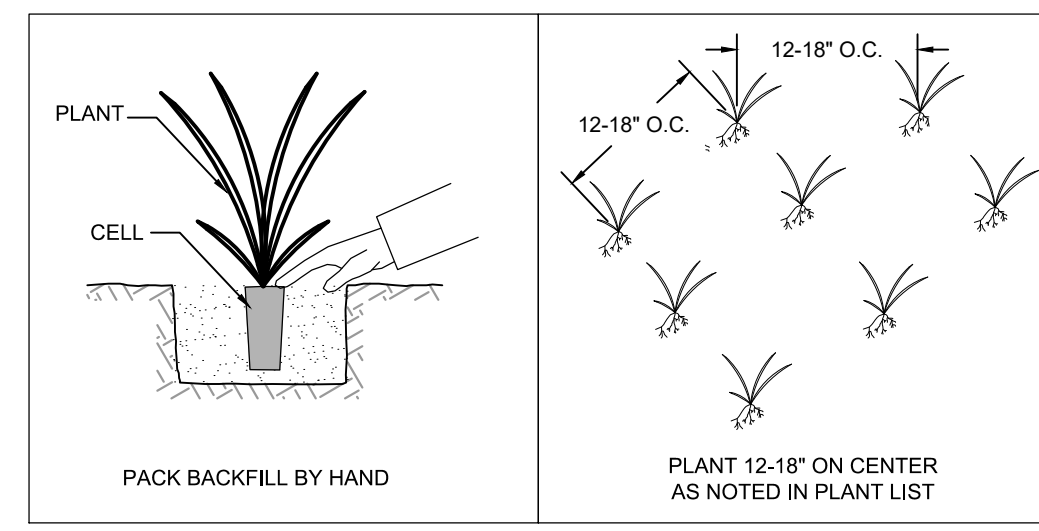
**CONTAINER PLANT ROOTBALL TREATMENT**  
NOT TO SCALE



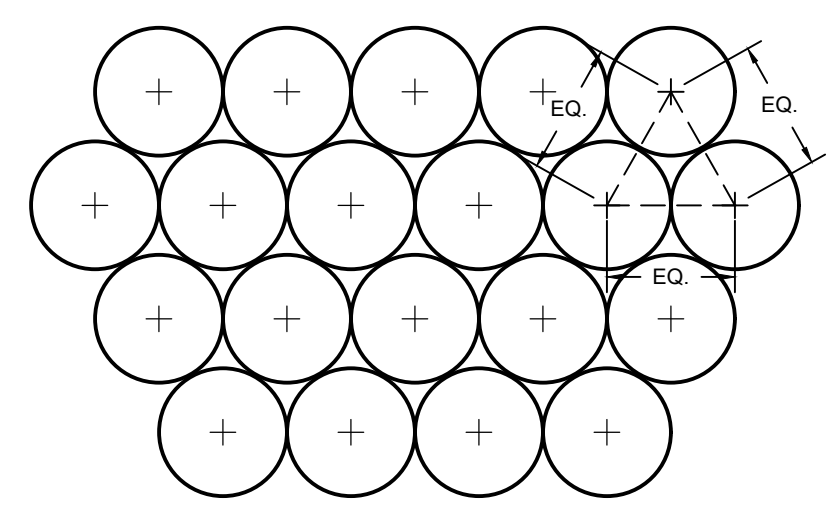
**SHRUB PLANTING**  
NOT TO SCALE



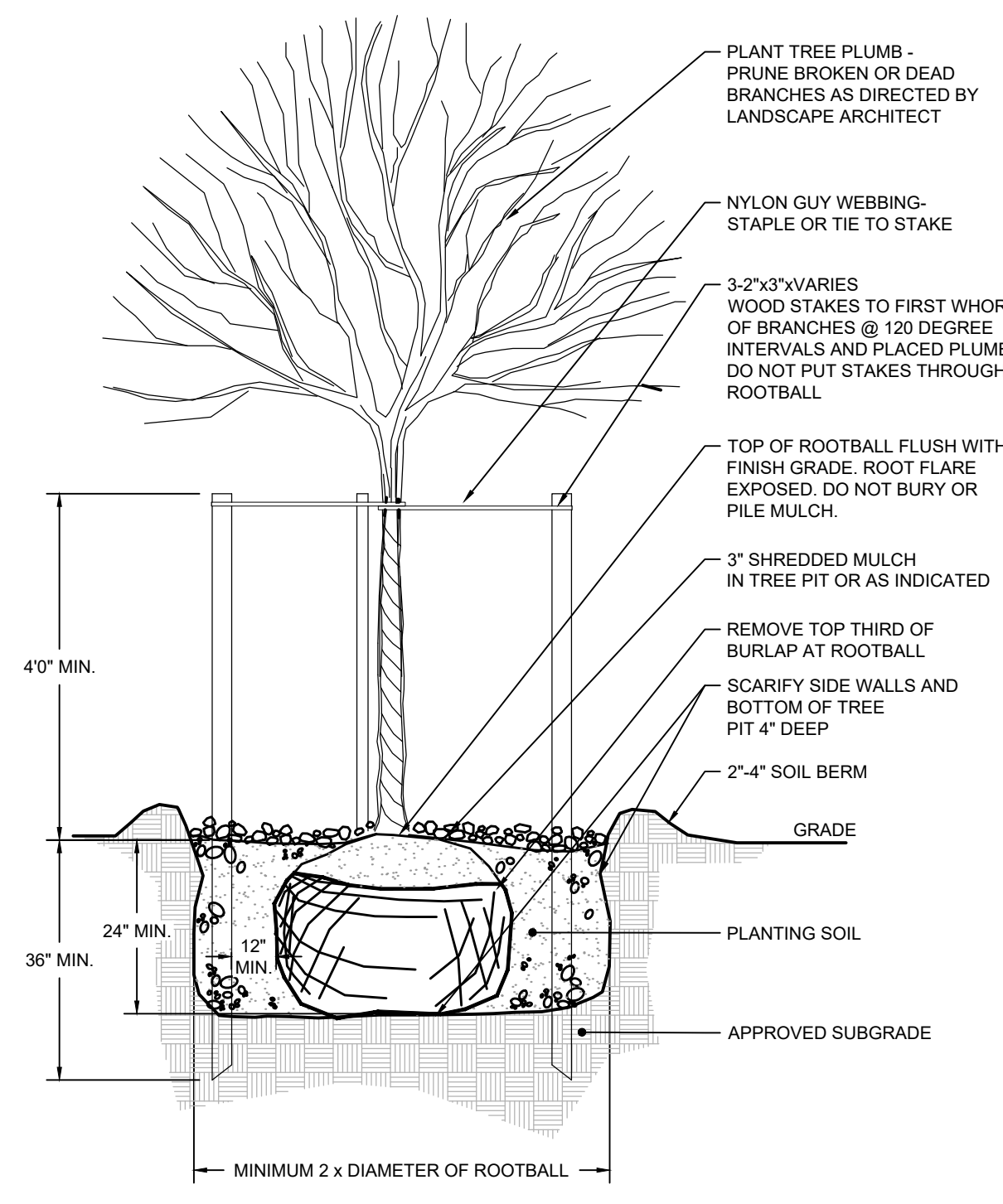
**BIORETENTION PLUG AND HAND SEEDING**  
NOT TO SCALE



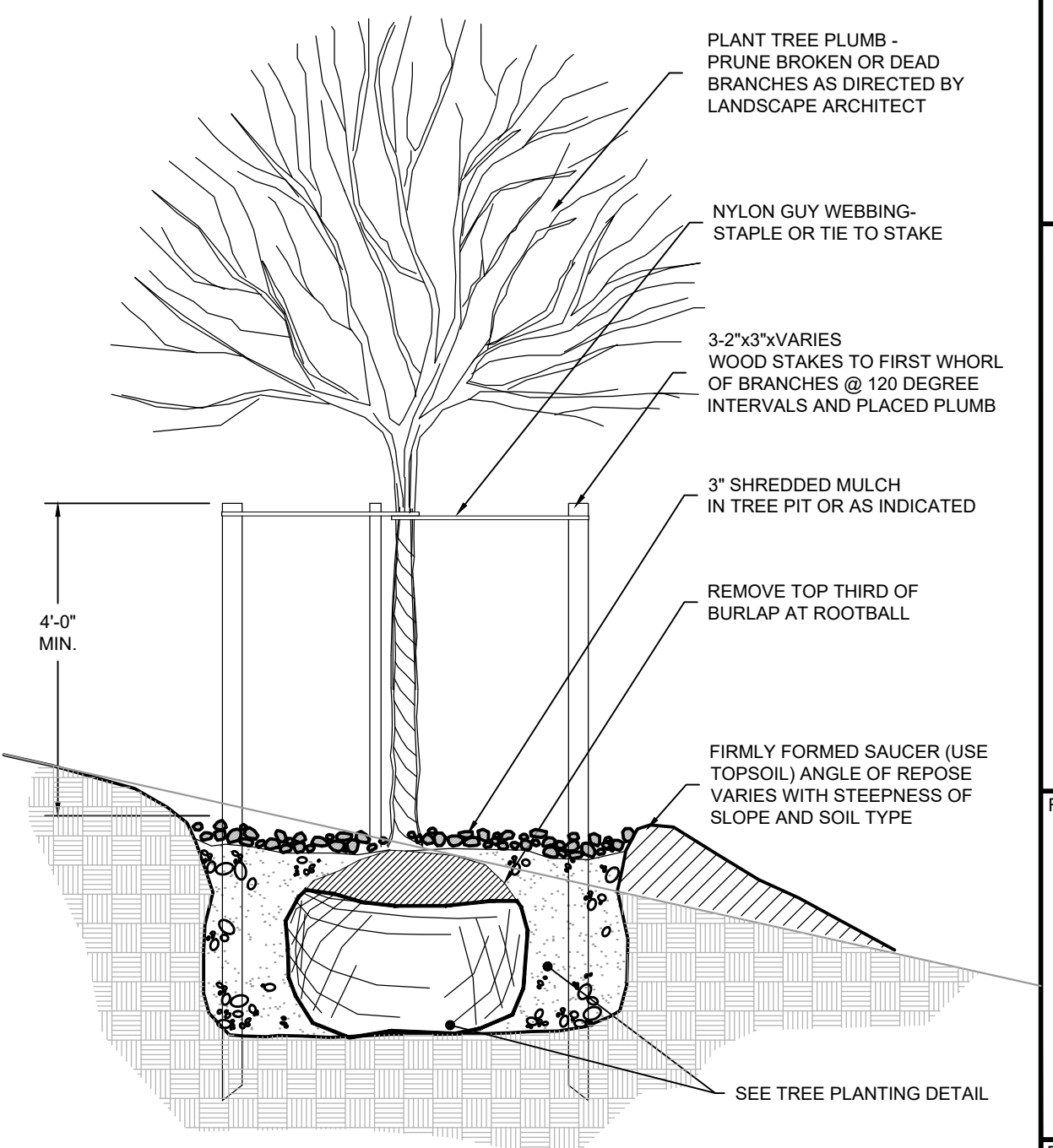
**PLUG PLANTING DETAIL**  
NOT TO SCALE



**PLANTING SPACING**  
NOT TO SCALE



**TREE PLANTING**  
NOT TO SCALE



**TREE PLANTING ON SLOPE**  
NOT TO SCALE

**PERMIT SET**  
**NOT FOR CONSTRUCTION**

<p><b>Horsley Witten Group, Inc.</b> Sustainable Environmental Solutions www.horsleywitten.com 90 Route 6A Sandwich, MA 02563 Phone: (508) 833-6600 Fax: (508) 833-3150</p>		<p>Checked By: HLC Designed By: EEB Drawn By: EEB Date: APRIL 2022</p>
<p>Project Number: 21127</p>		<p>Sheet: 12 of 12</p>
<p>Sheet Number: LA - 12</p>		<p>Registration:</p>

**DRAFT**  
**NOT FOR CONSTRUCTION**

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Date: DECEMBER 2021

Plant Title: **TOWN HALL CAMPUS RESTORATION PERMITTING PLANS MENDON, MASSACHUSETTS**

Plant Size: **PLANTING DETAILS**