



Roxann Wedegartner  
Mayor

City of  
**GREENFIELD, MASSACHUSETTS**

**Purchasing and Procurement**

City Hall • 14 Court Square • Greenfield, MA 01301  
Phone 413-772-1569  
Laura.Phelps@greenfield-ma.gov



**IFB 24-09 PD Site Grading and Erosion Control  
ADDENDUM #2**

DATE: October 5, 2023

THE ORIGINAL SPECIFICATIONS DATED September 20, 2023 FOR THE ABOVE-NOTED PROJECT ARE AMENDED AS NOTED IN THE ADDENDUM #1

THIS ADDENDUM IS ISSUED FOR THE PURPOSE OF AMENDING THE REQUIREMENTS OF THE CONTRACT DOCUMENTS AND IS HEREBY MADE PART OF THE CONTRACT DRAWINGS AND SPECIFICATIONS TO THE SAME EXTENT AS THOUGH IT WERE FULLY INCORPORATED THEREIN.

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1. Owner will relocate all equipment in the shed and relocate power. The Contractor will remove shed structure above this slab.
2. The curb mentioned in the revised plan should be included in the work from beginning, not as a 'potential' curb.
3. Reuse of existing fence material and posts is expected.
4. See : Greenfield Police Stamped Plans Revised 2023-10-04.

**Please acknowledge this Addendum #2 on the IFB Form  
END OF ADDENDUM**



# GREENFIELD POLICE DEPARTMENT

321 HIGH STREET · GREENFIELD · MA

TAX MAP R03 BLOCK 9 LOT 1

## POLICE DEPARTMENT GRADING

SEPTEMBER 12, 2023

REVISED OCTOBER 4, 2023

PREPARED FOR

**H2H ARCHITECTS  
& ENGINEERS, INC.**

433 RIVER STREET, SUITE 8002  
TROY, NY 12180

PREPARED BY

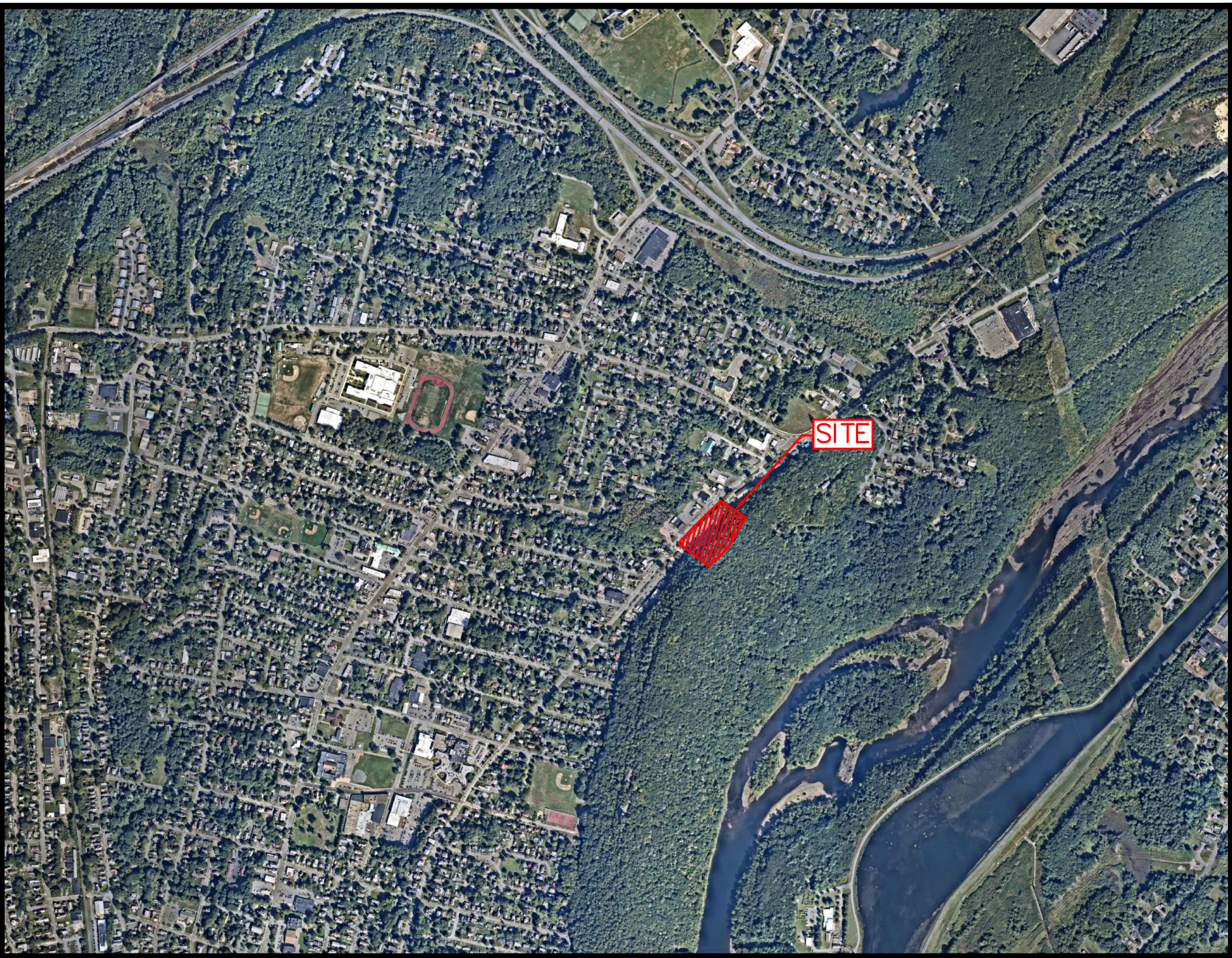


**FUSS & O'NEILL**

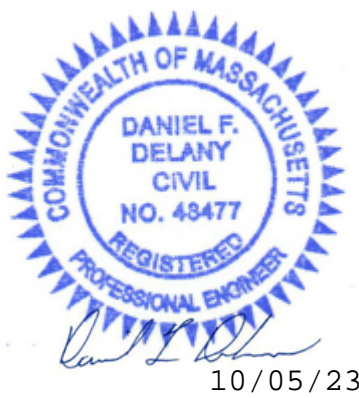
1550 MAIN STREET, SUITE 400  
SPRINGFIELD, MA 01103  
413.452.0445  
www.fando.com

### SHEET INDEX

<u>SHEET No.</u>	<u>SHEET TITLE</u>
GI-001	COVER SHEET
CP-101	EXISTING CONDITIONS PLAN
CS-101	SITE, GRADING, AND EROSION CONTROL PLAN
CD-500	SITE, GRADING, AND DRAINAGE DETAILS PLAN
CD-501	EROSION CONTROL DETAILS PLAN



LOCATION MAP  
SCALE: 1" = 1000'



PROJ. No.: 20260380.A50  
DATE: SEPTEMBER 2023

GI-001





1. THE PURPOSE OF THIS PLAN IS TO DEPICT EXISTING CONDITIONS OF THE SUBJECT PARCELS LOCATED ON TAX MAP R03 BLOCK 9 LOT 0, WITH A PHYSICAL ADDRESS OF 321 HIGH STREET, GREENFIELD MA.
2. OWNER OF RECORD FOR TAX MAP R03 BLOCK 9 LOT 0 IS "GREENFIELD CITY OF INHABITANTS, POLICE STATION," WITH A LEGAL ADDRESS OF 14 COURT SQUARE, GREENFIELD, MA 01301. DEED REFERENCE AT THE FCRD IS BOOK 3295 PAGE 15.
3. PROPERTY LINE/BOUNDARY LINE INFORMATION IS BASED ON GIS DATA RECEIVED FROM MASSMAPPER ON MARCH 17, 2023.
4. EXISTING CONDITIONS IS BASED ON A COMBINATION OF AERIAL IMAGES AND FIELD OBSERVATION BY FUSS & O'NEILL ON MARCH 13, 2023.
5. EXISTING CONTOURS WERE ESTABLISHED DURING A SITE VISIT FROM FUSS & O'NEILL ON MARCH 13, 2023 BY JAMES BLACK AND ANDREW ROSSOSHANSKY. VERTICAL DATUM IS ASSUMED WITH A BASE ELEVATION OF 100.0' AT TOP OF EXISTING POLICE STATION. F&O DID NOT PERFORM FULL GROUND SURVEY. NO REPRESENTATION OR WARRANTY IS MADE AS TO NON-SURVEY FEATURES OF REFERENCE BY F&O.
6. THE CURRENT CITY OF GREENFIELD ZONING ORDINANCE THE SUBJECT PROPERTY IS ZONED GC. NO CHANGE TO THE LOT, BUILDINGS, OR GROUND COVER IS PROPOSED.
7. PROJECT AREA NOT IN 100 YEAR FLOOD BOUNDARY BASED ON "FIRM, FLOOD INSURANCE RATE MAP, CITY OF GREENFIELD, MASSACHUSETTS, FRANKLIN COUNTY," PANEL 6 OF 8, COMMUNITY-PANEL NUMBER 250118 0006 B, EFFECTIVE DATE JULY 2, 1980.
8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE SITE AND EXISTING CONDITIONS SURROUNDING IT AND THEREON.
9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE LOCATION OF EXISTING FEATURES BOTH ABOVE GROUND AND BELOW. NO GUARANTEE IS MADE BY THIS FIRM FOR ANY INDIVIDUALS AS TO THE LOCATION OF EXISTING FEATURES. UNDERGROUND UTILITIES ARE APPROXIMATE BASED ON REFERENCE PLANS AND INFORMATION PROVIDED BY THE UTILITY COMPANIES. UNDERGROUND UTILITIES ARE APPROXIMATE BASED ON REFERENCES LOCATED ON THE EXISTING CONDITIONS AND TOPOGRAPHY REFERENCES LISTED ABOVE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND DETERMINING THE LOCATION, SIZE AND ELEVATION OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS PRIOR TO THE START OF ANY CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES FOUND INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION BE AGREED TO BY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTINUE TO MONITOR THE HAMPSHIRE DIG SAFE, AT 1-888-DIG-SAFE, AT LEAST 72 HOURS BEFORE DIGGING.
11. IF ANY ERROR OR OMISSION IN THESE PLANS IS DISCOVERED BY THE CONTRACTOR, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD IMMEDIATELY IN WRITING FOR DIRECTION ON HOW TO PROCEED. THE CONTRACTOR SHALL DISCONTINUE WORK IN THE AFFECTED PROJECT AREA UNTIL AGREEMENT HAS BEEN REACHED WITH THIS FIRM ON CORRECTIVE ACTION. ALL FIELD CHANGES MUST BE APPROVED BY THE ENGINEER.
12. SEE OTHER PLAN SHEETS FOR RELATED NOTES AND ASSOCIATED INFORMATION.

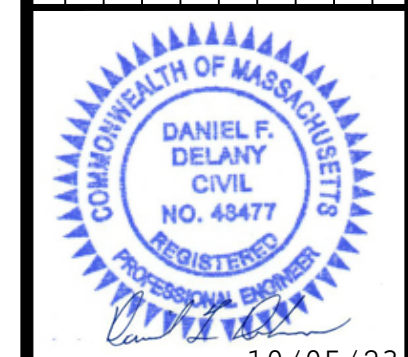
1. THE PURPOSE OF THIS PLAN IS TO ILLUSTRATE AREAS AND LOCATIONS OF DISTURBANCE RELATED TO THE PROPOSED PROJECT ON THE SUBJECT PARCEL.
2. REMOVE AND DISPOSE OF EXISTING STUMPS AND UNSUITABLE MATERIAL IN ACCORDANCE WITH APPLICABLE MASSACHUSETTS DEP STANDARDS.
3. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS, AND OTHER DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.
4. NO CHANGES ARE PROPOSED OUTSIDE OF THE VISIBLE CONTENT PRESENTED ON THIS PLAN.
5. COORDINATE WITH THE CITY FOR A PREFERRED TRUCK HAULING ROUTE FOR DEMOLITION DEBRIS.
6. SEE OTHER PLAN SHEETS FOR RELATED NOTES AND ASSOCIATED INFORMATION.

1. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR DIMENSION OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
2. DO NOT RELY SOLELY ON ELECTRONIC VERSIONS OF DRAWINGS, SPECIFICATIONS, AND DATA FILES THAT ARE PROVIDED BY THE ENGINEER. FIELD VERIFY LOCATION OF PROJECT FEATURES.
3. PERFORM NECESSARY CONSTRUCTION NOTIFICATIONS, APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK AS REQUIRED BY THE CONTRACT DOCUMENTS.
4. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF BUILDINGS AND ADJACENT SITE ELEMENTS INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.
5. SITE WORK SHALL BE CONSTRUCTED FROM A COMPLETE SET OF PLANS.


1. APPROVED PLANS TO BE ON SITE AT ALL TIMES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST OSHA STANDARDS, STATE AND LOCAL REQUIREMENTS, AND CITY OF GREENFIELD REQUIREMENTS, POLICIES, AND SPECIFICATIONS.

**LEGEND**

	PROPERTY LINE
	EXISTING MAJOR TOPO
	EXISTING MINOR TOPO
	EXISTING HALF TOPO
	PROPOSED MAJOR TOPO
	PROPOSED MINOR TOPO
	PROPOSED HALF TOPO
	EXISTING CHAINLINK FENCE
	OPTIONAL CONCRETE CURB
	PROPOSED PERFORATED DRAINAGE PIPE
	PROPOSED DRAINAGE PIPE
	PROPOSED YARD DRAIN
	EXISTING GABION BASKET RETAINING WALL
	PROPOSED RIP RAP

[illegible]

SCALE:	
HORZ.:	1" = 10'
VERT.:	
DATUM:	
HORZ.:	
VERT.:	



GRAPHIC SCALE

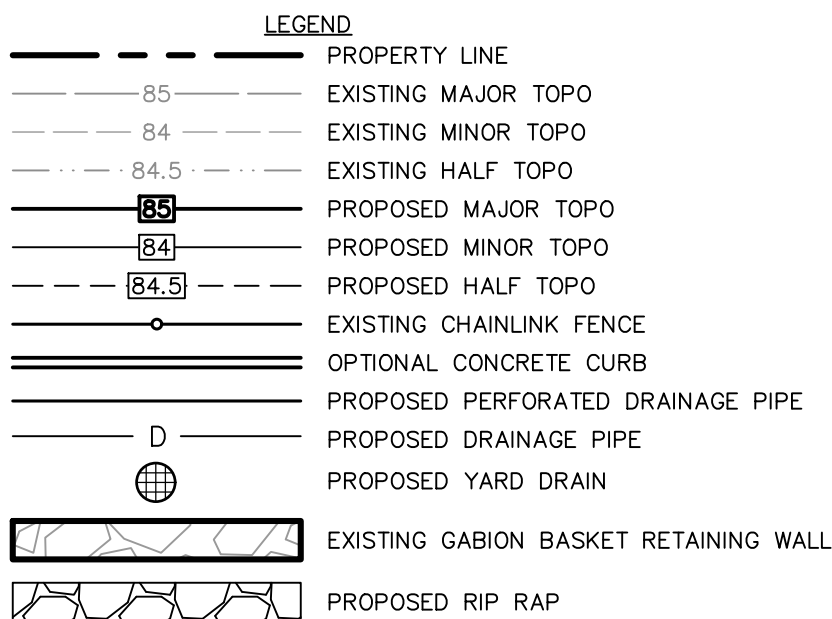
10 5 0 10

H2M ARCHITECTS & ENGINEER  
EXISTING CONDITIONS  
PLAN  
GREENFIELD POLICE STATION  
321 HIGH STREET  
GREENFIELD MASSACHUSETTS

PROJ. No.: 20160380.A50
DATE: 09/11/2023

CP-101

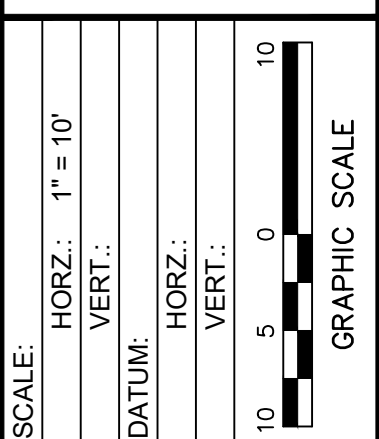
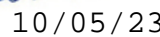




1. THE PURPOSE OF THIS PLAN IS TO ILLUSTRATE PROPOSED SITE IMPROVEMENTS FOR THE CONSTRUCTION OF DRAINAGE IMPROVEMENTS, GRADING, AND EROSION CONTROL UPON THE PARCEL LOCATED ON TAX MAP R03 BLOCK 9 LOT 0, WITH A PHYSICAL ADDRESS OF 321 HIGH STREET, GREENFIELD MA.
2. PER THE CURRENT CITY OF GREENFIELD ZONING ORDINANCE THE SUBJECT PROPERTY IS ZONED GC. NO CHANGE TO THE LOT, BUILDINGS, OR GROUND COVER IS PROPOSED.
3. SITE WORK SHALL BE CONSTRUCTED FROM A COMPLETE SET OF PLANS. THE ENGINEER IS TO BE NOTIFIED OF ANY CONFLICT WITHIN THIS PLAN SET.
4. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT DEFICIENCIES EXIST IN THE APPROVED DRAWINGS, THE OWNER SHALL BE REQUIRED TO CORRECT THE DEFICIENCIES TO MEET THE REQUIREMENTS OF THE REGULATIONS AT NO EXPENSE TO THE CITY.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE SITE AND EXISTING CONDITIONS SURROUNDING IT AND THEREON. THE CONTRACTOR SHALL ADVISE THE APPROPRIATE AUTHORITY OF HIS INTENTIONS AT LEAST 48 HOURS IN ADVANCE.
6. THE CONTRACTOR SHALL BID AND PERFORM THE WORK IN ACCORDANCE WITH ALL LOCAL, STATE AND NATIONAL CODES, SPECIFICATIONS, REGULATIONS, AND STANDARDS.
7. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND FOR CONDITIONS AT THE SITE. THESE PLANS, PREPARED BY FUSS & O'NEILL, INC. DO NOT EXTEND TO OR INCLUDE SYSTEM PERTAINING TO THE SAFETY OF THE CONSTRUCTION CONTRACTOR OR THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE ENGINEER HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEM THAT MAY NOW OR HEREAFTER BE INCORPORATED INTO THESE PLANS. THE CONSTRUCTION CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEM WHICH MAY BE REQUIRED BY THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND/OR LOCAL REGULATIONS.
8. WRITTEN DIMENSIONS HAVE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR SHALL USE CAUTION WHEN SCALING REPRODUCED PLANS, IN CASE OF CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWING AND/OR SPECIFICATION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CLARIFICATIONS.
9. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL AREAS AFFECTED BY THEIR WORK AT ALL TIMES.
10. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE CITY OF GREENFIELD SITE PLAN REGULATIONS, CITY OF GREENFIELD, MA STANDARD SPECIFICATION. ALL CONSTRUCTION DETAILS SHALL BE IN ACCORDANCE WITH THE CITY OF GREENFIELD.
11. ALL WORK MUST CONFORM TO THE CITY OF GREENFIELD, DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS AND ANY WORK WITHIN THE CITY RIGHT OF WAY REQUIRES AN EXCAVATION PERMIT.
12. SEE OTHER PLAN SHEETS FOR RELATED NOTES AND ASSOCIATED INFORMATION.

1. THE CONTRACTOR SHALL VERIFY BENCH MARKS (TBMS) WITH DESIGN ENGINEER PRIOR TO CONSTRUCTION.
2. DRAINAGE PIPE LENGTHS NOTED ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
3. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS IN THE IMMEDIATE AREA.
4. FLUSH CLEAN AND REMOVE ALL DEBRIS OF EXISTING AND PROPOSED CULVERTS DURING AND POST CONSTRUCTION.
5. REMOVE ALL UNSUITABLE MATERIALS ENCOUNTERED DURING EXCAVATIONS AND REPLACE WITH SUITABLE FILL. CONTRACTOR TO COORDINATE ADDITIONAL TEST BORINGS, TEST PITS, AND COORDINATE WITH A GEOTECHNICAL ENGINEER, IF NECESSARY.
6. IF LEDGE IS DISCOVERED DURING EXCAVATION, REMOVE LEDGE A MINIMUM OF TWO (2) FEET BELOW GRAVELS AND REPLACE WITH SUITABLE MATERIAL. COORDINATE WITH ARCHITECT OR GEOTECHNICAL ENGINEER.
7. CONTRACTORS LOAM AND SEED ALL DISTURBED AREAS PER DETAIL LOCATED WITHIN THIS PLAN SET.
8. SEE OTHER PLAN SHEETS FOR RELATED NOTES AND ASSOCIATED INFORMATION. REFER TO EROSION CONTROL NOTES ON PLAN SHEET GI-101.

1. PROVIDE EROSION CONTROL MEASURES PRIOR TO STARTING ANY WORK ON THE SITE. IMPLEMENT ALL NECESSARY MEASURES REQUIRED TO CONTROL STORMWATER RUNOFF, DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE. PERFORM CORRECTIVE ACTION AS NEEDED FOR EROSION CLEANUP AND REPAIRS TO OFF SITE AREAS, IF ANY, AT NO COST TO OWNER.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN IN THE PLANS THROUGHOUT THE DURATION OF THE PROJECT IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND MUNICIPALITY STANDARDS. THE DETAILS PROVIDED SERVE AS A GUIDE ONLY. DISPOSE OF SEDIMENT IN AN UPLAND AREA.
3. IF, DURING CONSTRUCTION, IT BECOMES APPARENT THAT ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED TO STOP ANY EROSION ON THE CONSTRUCTION SITE, THE PROPERTY OWNER SHALL BE REQUIRED TO PROVIDE THE NECESSARY EROSION PROTECTION AT NO EXPENSE TO THE MUNICIPALITY.
4. PERFORM CONSTRUCTION SEQUENCING IN SUCH A MANNER TO CONTROL EROSION AND TO MINIMIZE THE TIME THAT EARTH MATERIALS ARE EXPOSED BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED.
5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL MEASURES, CUT AND DRAPAGE, AND DEBRIS FROM TEMPORARY MEASURES AND FROM PERMANENT STORM DRAINAGE.
6. POST CONSTRUCTION, THE PROPERTY OWNER/OPERATOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL DRAINAGE AND STORMWATER PRACTICES COORDINATE WITH THE CITY IF INSPECTION AND MAINTENANCE RECORDS ARE REQUIRED TO BE PROVIDED TO THE CITY, PERIODICALLY. REFER TO THE STORMWATER REPORT FOR THE OPERATION AND MAINTENANCE MANUAL.

[illegible]

**FUSS & O'NEILL**  
1550 MAIN STREET, SUITE 400  
SPRINGFIELD, MA 01103  
413.452.0445  
[www.fandoo.com](http://www.fandoo.com)

H2M ARCHITECTS & ENGINEER  
SITE, GRADING, AND  
EROSION CONTROL PLAN  
GREENFIELD POLICE STATION  
321 HIGH STREET  
GREENFIELD MASSACHUSETTS

PROJ. No.: 20160380.A50
DATE: 09/11/2023

CS-101



(1, 2) INTEGRATED DUCTILE IRON FRAME & GRATE TO MATCH BASIN O.D.

(3) VARIABLE INVERT HEIGHTS AVAILABLE (ACCORDING TO PLANS/TAKE OFF)

MINIMUM PIPE BURIAL DEPTH PER PIPE MANUFACTURER RECOMMENDATION (MIN. MANUFACTURING REQ. SAME AS MIN. SUMP)

(5) ADAPTER ANGLES VARIABLE 0° - 360° ACCORDING TO PLANS

18" MIN WIDTH GUIDELINE

8" MIN THICKNESS GUIDELINE

TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS. SEE DRAWING NO. 7001-110-111 FOR NON TRAFFIC INSTALLATION.

WATERTIGHT JOINT (CORRUGATED HDPE SHOWN)

(4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 12" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC

(3) VARIABLE SUMP DEPTH ACCORDING TO PLANS (6" MIN. BASED ON MANUFACTURING REQ.)

4" MIN

THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1299CGP	7001-110-202
STANDARD	MEETS H-20	1299CGS	7001-110-203
SOLID COVER	MEETS H-20	1299CGC	7001-110-204
PEDESTRIAN BRONZE	N/A	1299CGPB	7001-110-205
DOME	N/A	1299CGD	7001-110-206
DROP IN GRATE	LIGHT DUTY	1201DI	7001-110-021

GRATE OPTIONS	LOAD RATINGS	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1299CGP	7001-110-202
STANDARD	MEETS H-20	1299CGS	7001-110-203
SOLID COVER	MEETS H-20	1299CGC	7001-110-204
PEDESTRIAN BRONZE	N/A	1299CGPB	7001-110-205
DOME	N/A	1299CGD	7001-110-206
DROP IN GRATE	LIGHT DUTY	1201DI	7001-110-021

- 1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRADE.
- 2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- 3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 8" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
- 4 - DRAINAGE CONNECTIONS SHALL BE JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HD, & PVC SEWER.
- 5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.


THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE THEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.

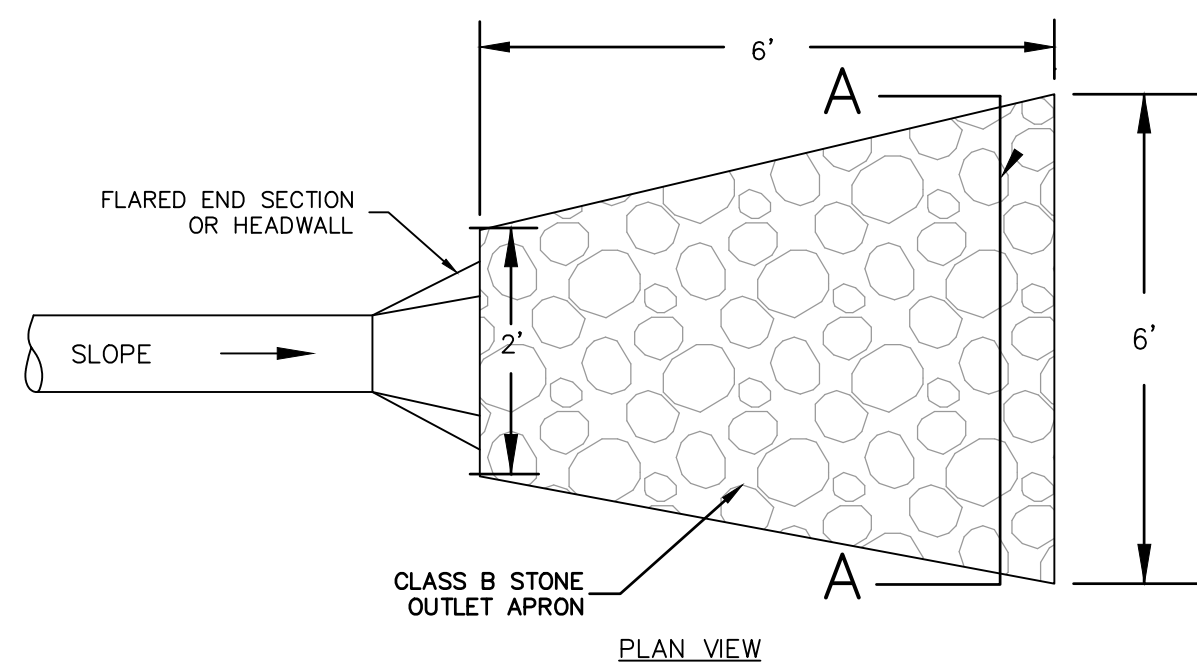
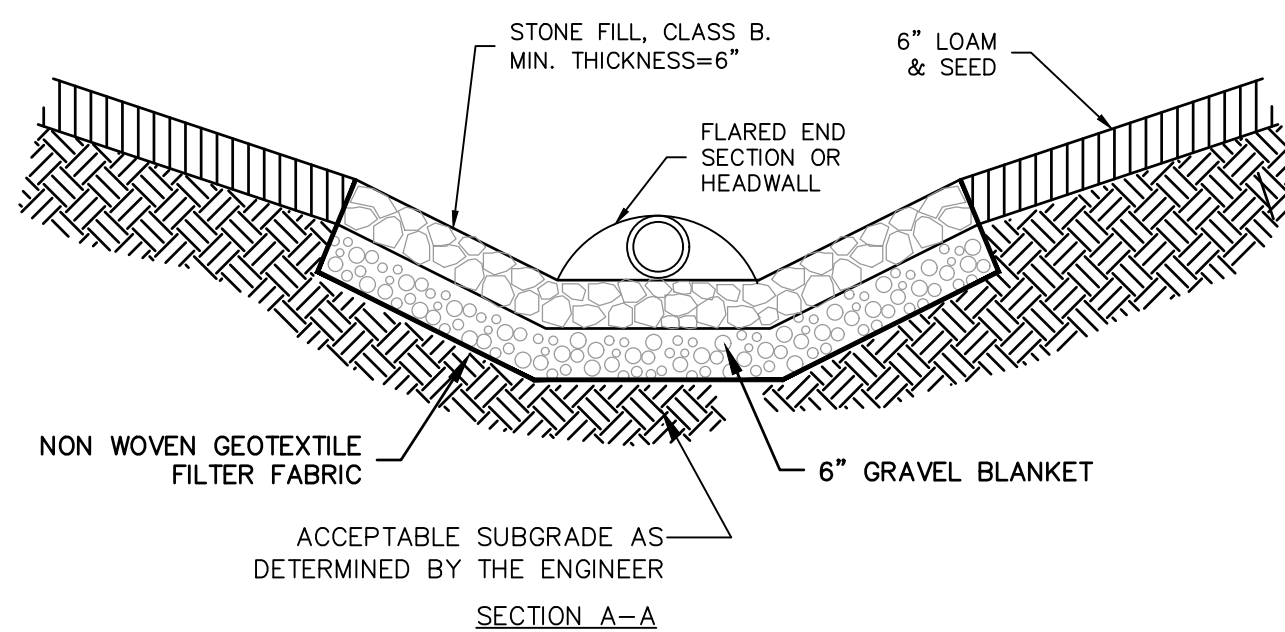
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DRAWN BY	EBC	MATERIAL
DATE	03-29-06	
REVISED BY	NMH	PROJECT
DATE	03-11-16	
DWG SIZE	A	SCALE

NO./NAME

1:20 SHEET 1 OF 1

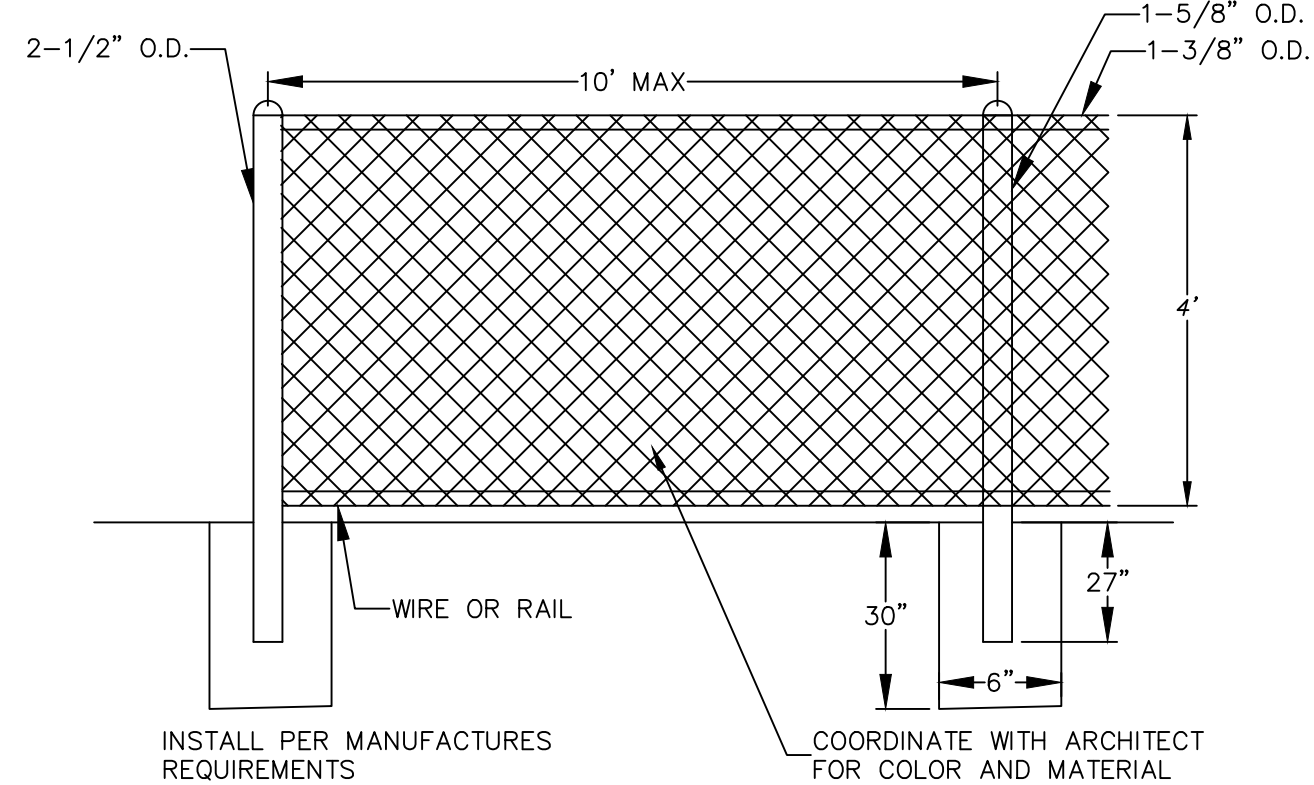
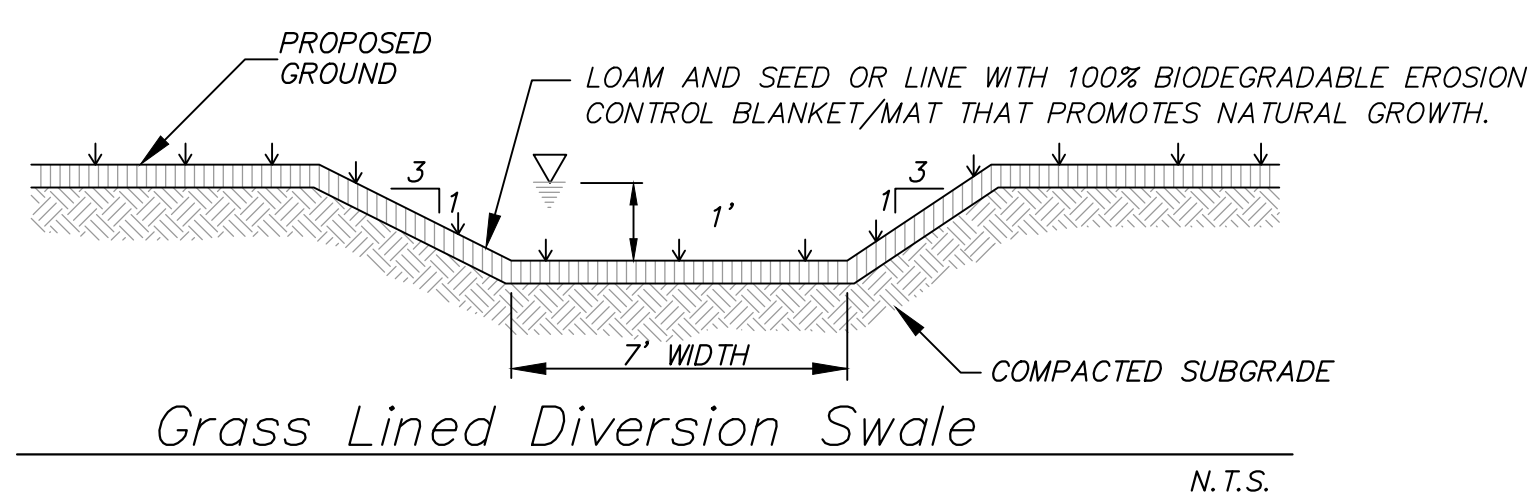
	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 <a href="http://www.nyloplast-us.com">www.nyloplast-us.com</a>
<b>TITLE</b>	
<b>12 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL</b>	
<b>DWG NO.</b>	<b>7001-110-189</b>
	<b>REV E</b>



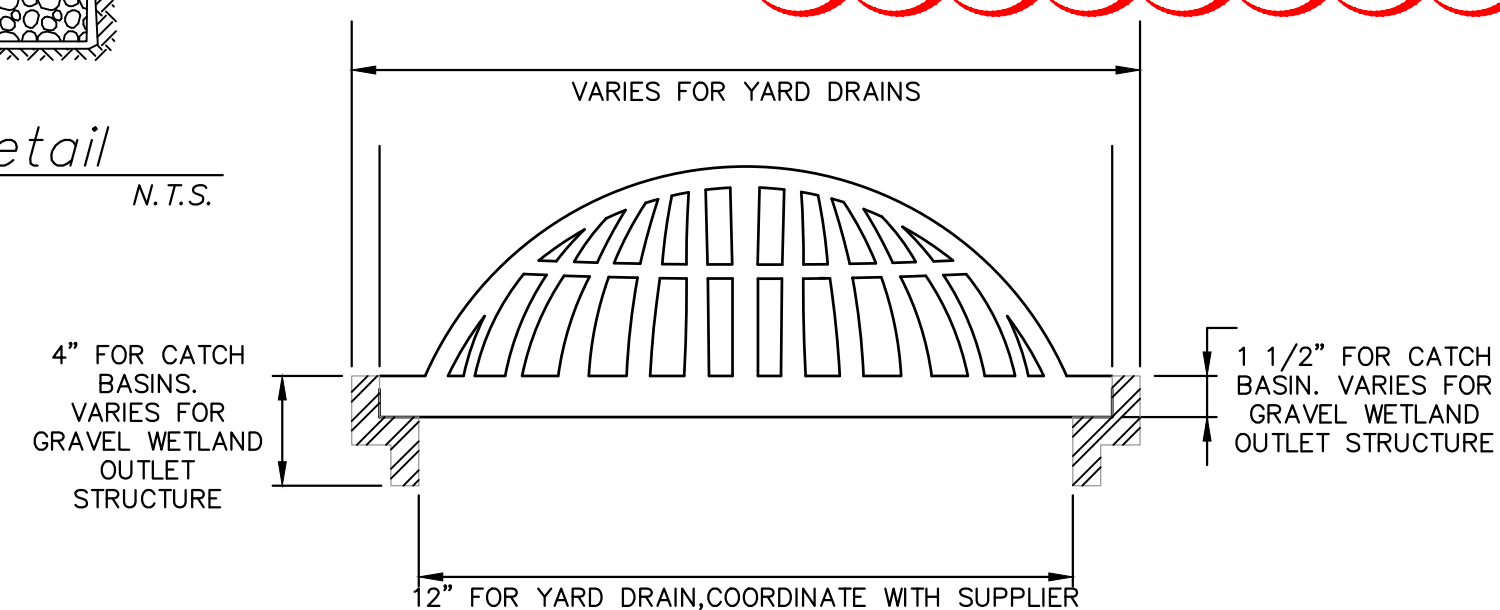
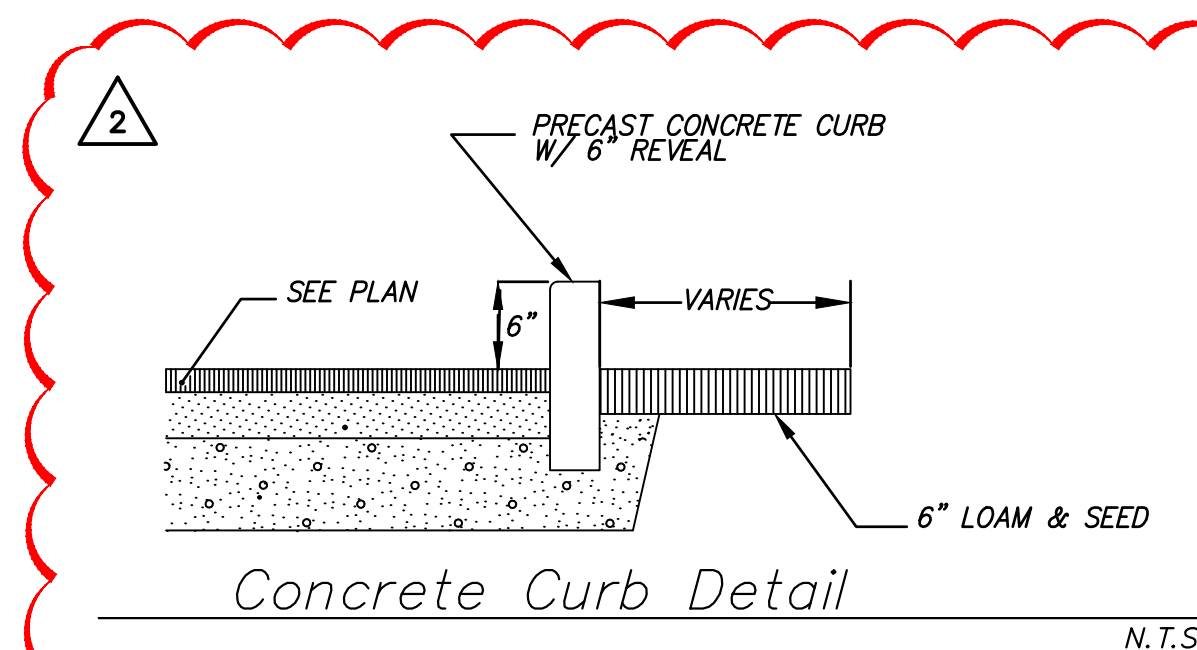
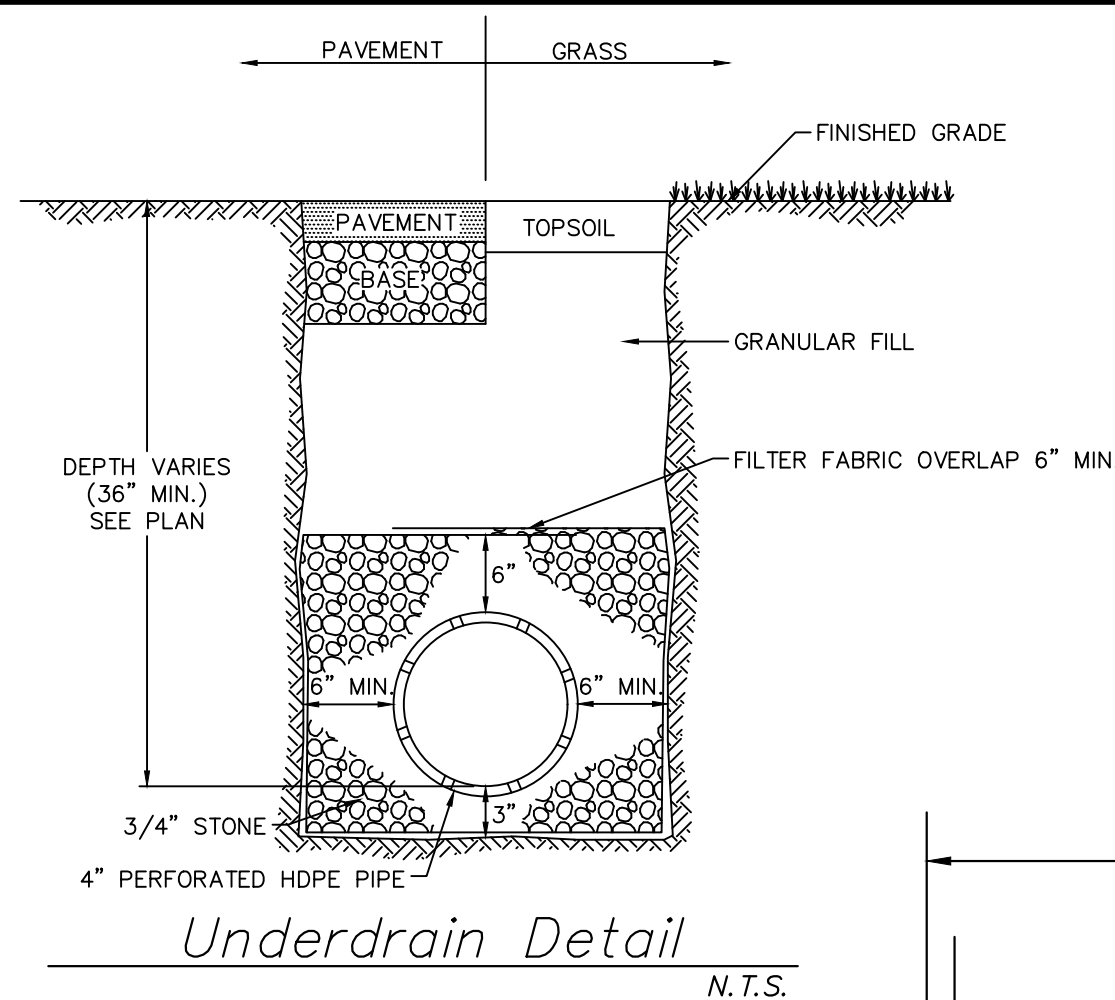
THE HEIGHT OF THE STRUCTURAL LINING ALONG THE CHANNEL SIDES SHALL BEGIN AT THE ELEVATION EQUAL TO THE TOP OF THE CONDUIT AND TAPER DOWN TO THE CHANNEL BOTTOM THROUGH THE LENGTH OF THE APRON.

## Stone Outlet Protection

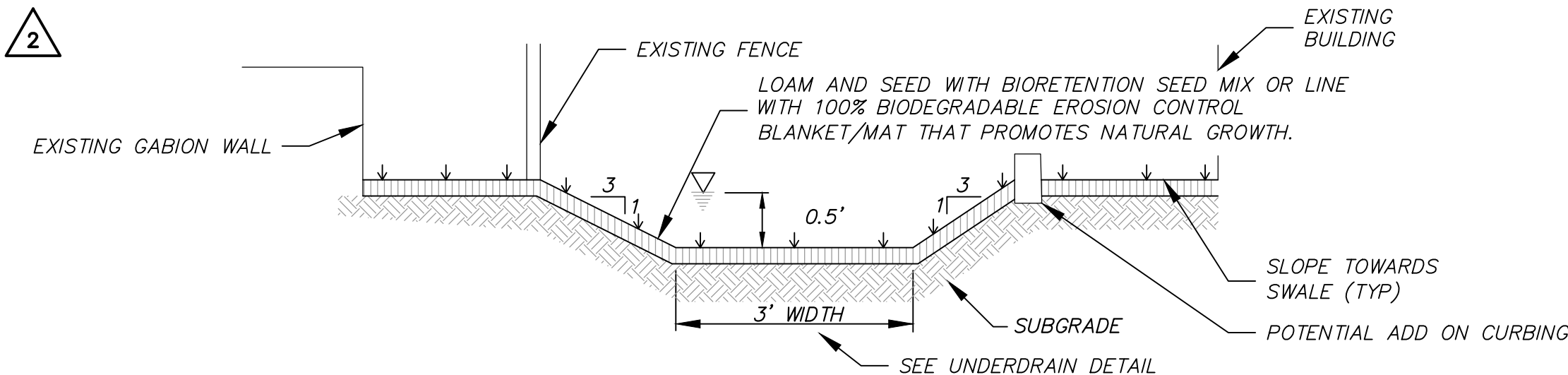
N.T.S.



Chain Link Fence  
N.T.



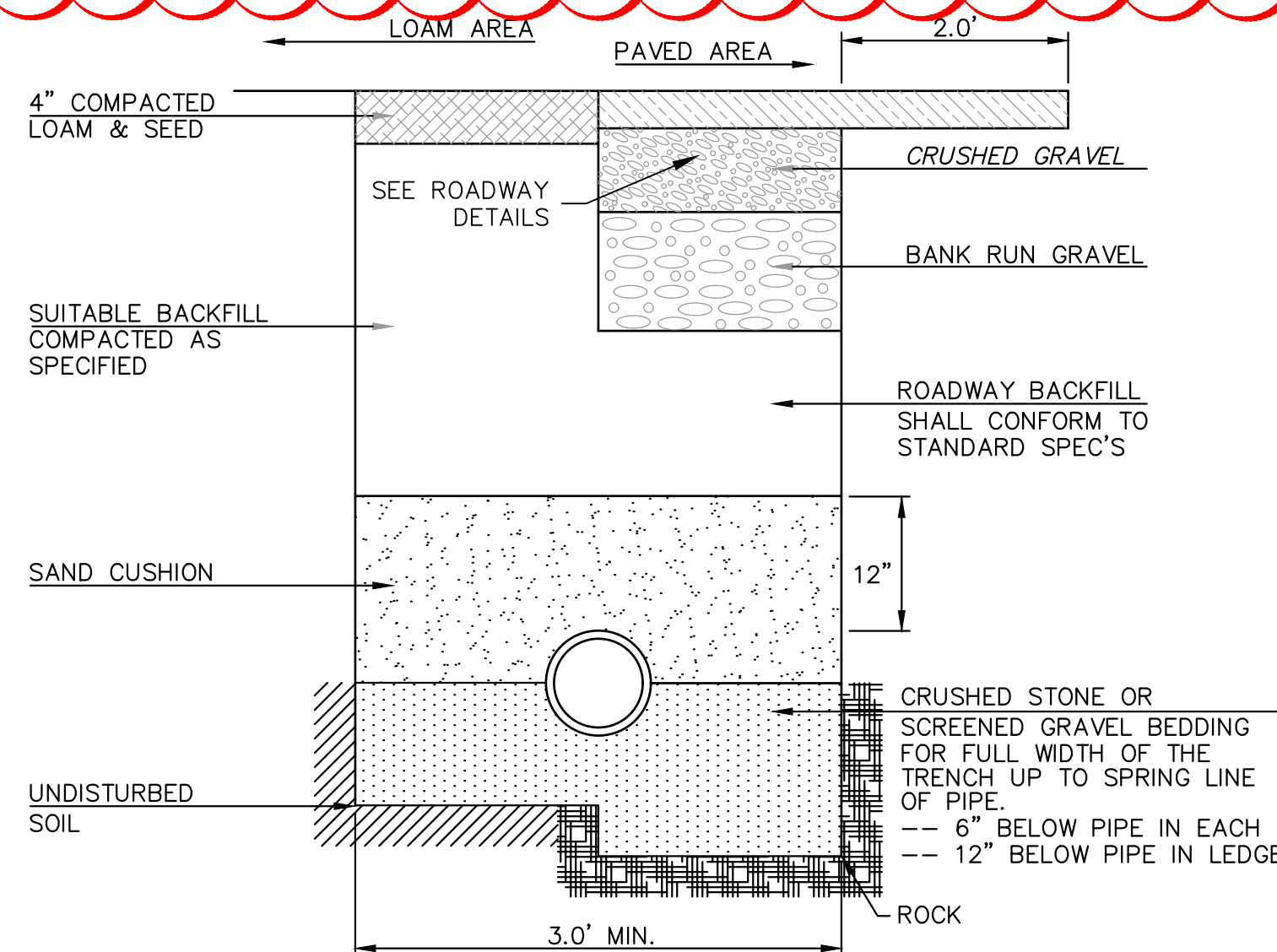
Typical Off Pavement Catch Basin Grate (Beehive) N.T.S.



BASIN FLOOR PREPARATION AND NOTES :

1. AREAS TO BE 6" LOAM AND SEED: PROVIDE BIOTRETENT SEED MIX FOR GRASS TURF THAT CAN BE INUNDATED FOR 72+ HOURS.
2. AFTER THE GROUND IS EXCAVATED TO THE FINAL DESIGN ELEVATION OF THE LINER, THE FLOOR SHALL BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW, FOLLOWED BY A PASS WITH A LEVELING DRAG.
3. DO NOT TRAFFIC EXPOSED SOIL SURFACE WITH CONSTRUCTION EQUIPMENT. IF FEASIBLE, PERFORM EXCAVATIONS WITH EQUIPMENT POSITIONED OUTSIDE THE LIMITS OF THE INFILTRATION SYSTEM. DO NOT PLACE INFILTRATION SYSTEMS INTO SERVICE UNTIL CONTRIBUTING AREAS HAVE BEEN FULLY STABILIZED.

*Stormwater Collection Swale*



- NOTES:
1. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REGULATIONS. DEPTH FOR BITUMINOUS PAVEMENT SHALL BE AS SPECIFIED IN PAVEMENT DETAIL.
  2. NEW ROADWAY CONSTRUCTION SHALL CONFORM TO CITY OF GREENFIELD STANDARD SPECIFICATIONS.
  3. IN LIEU OF THE 12" GRAVEL COURSE AND 6" CRUSHED GRAVEL, 18" OF CRUSHED GRAVEL OR RECLAIMED STABILIZED BASE MAY BE USED AS A BASE FOR THE PAVEMENT REPAIR.
  4. MATERIAL SHALL BE REPLACED IN KIND WHENEVER POSSIBLE.
  5. A MINIMUM 2' CUTBACK IS REQUIRED AT THE TOP OF THE TRENCH WALL OVER UNDISTURBED MATERIAL.
  6. USE CLASS V CONCRETE IN LOCATIONS WITH LESS THAN 3' OF COVER.
  7. IF LEDGE IS DISCOVERED, REMOVE A MINIMUM OF 2' BELOW GRAVELS AND REPLACE WITH SAND.

### Typical Drainage Trench Detail



