



























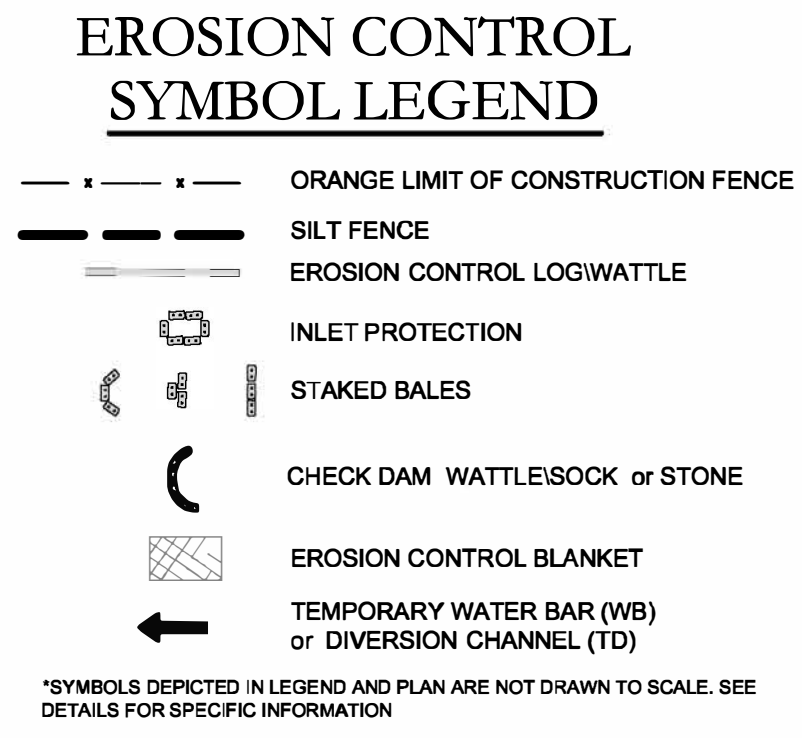


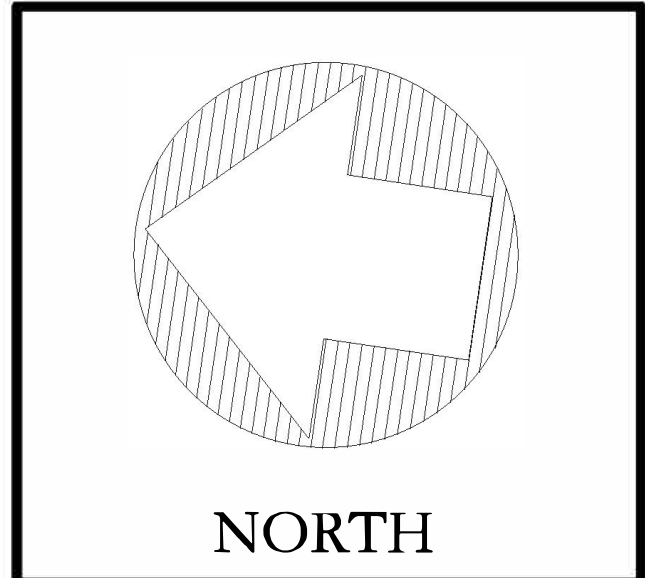
LEGEND					
	= Existing utility pole		= Existing edge of pavement		= Existing contour
	= Existing light pole		= Proposed curbing		= Existing spot elevation
	= Proposed Light		= Existing/Proposed well		= Proposed contour
	= Existing fire hydrant		= Existing catch basin		= Proposed spot elevation
	= Proposed fire hydrant		= Existing drainage manhole		= Deep test location
	= Existing water valve		= Existing sanitary manhole		= Percolation test location
	= Existing gas valve		= Proposed catch basin		= Grade to drain
	= Existing underground pipe		= Proposed manhole		= Proposed Riprap
	= Existing treeline		= Existing utility box		= Proposed Drainage Pipe
			= Proposed sidewalk ramp		



**cole**  
HARVEY L. COLE & SON

## Construction Site Inspection Report

<b>Construction Site Name (Project)</b> <span style="float: right;"><b>550-IHWWCC Permit #:</b></span> 554 Berlin Turnpike Associates, LLC	
Berlin Turnpike., Berlin, CT	<b>Name of Individual(s) Performing Inspection</b> _____
<b>Contractor:</b> _____	<b>Mobile Phone ( ) -</b> _____
<b>Subcontractor:</b> _____	<b>Subcontractor:</b> _____
<b>Date of Inspection (mm/dd/yy):</b> _____	<b>Type of Inspection:</b> <div style="display: flex; justify-content: space-around;"> <span>Monthly</span> <span>Precipitation Event</span> </div>
<b>Day of Week:</b> _____	<b>Other (specify)</b> _____
<b>Start Time of Inspection:</b> _____	<b>Phase of Construction:</b> _____
<b>End Time of Inspection:</b> _____	
<b>Weather Summary (including specific days w/ over 0.1" percipitation by NWS reporting):</b> _____ _____ _____	
<b>Description of current activities since previous report</b> _____ _____ _____ _____	
<b>Description of any found endangered plant of amphibioan speices and actions taken</b> _____ _____ _____	
<b>Description of installed E&amp;S and any measures to response to any found deficiencies:</b> _____ _____ _____	
<b>Anticipated activities during next one month reporting period</b> _____ _____ _____	
<b>Inspector:</b> _____	<b>Date:</b> _____
Provide supplemental page(s) is not sufficient space is provided above.	<b>Site Inspections required as followings...</b> A. BI-weekly (twice a month) B. Rainfall event over 1" for duration of storm (business day following end of event) C. Any event as may be directed by town staff (by following business day)
<b>Inspection Reports to be directed to</b> _____	
<b>IHWWC Agent</b> _____	
<b>Zoning Enforcement Agent (ZEO)</b> _____	



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Plantsville, CT 06479 - 0044

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Fax: (860) 620-0186  
[www.hecole.com](http://www.hecole.com)

PROJECT NAME:  
**PROPOSED  
MULTI-FAMILY  
DEVELOPMENT**

PREPARED FOR:

550-554 BERLIN  
TURNPIKE ASSOC.  
LLC

Sheet Description:	
<div>SOIL EROSION &amp; SEDIMENTATION CONTROL DETAILS</div>	
Scale:	
<div><div>40'20'0'20'40'</div><div>1"=40'</div></div>	
Date: July 19, 2023	
Project #: 1908	F.B. #: ---
Drawn By: BTP/BNB	Approved By: BNB
Revisions:	
Date:	Descriptions:
Dec. 14, 2022	Revisions
March 6, 2024	Revised Layout

Sheet #:

ES3











DRAWING NAME: P:\Land Projects\1988 Culture International\522 Berlin Turnpike\Details\1-2-24.dwg LAYOUT: D2 - Details - 1-2-24.dwg LAYOUT DATE: 12/07/2024 - 12:24pm OPERATOR: Jerrisa J...

TABLE R1 THICKNESS REQUIREMENTS FOR GRANULAR BEDDING

RIPRAP DESIGNATION	MINIMUM BEDDING THICKNESS (INCHES)
MODIFIED	6"
INTERMEDIATE	6"
STANDARD	12"
SPECIAL DESIGN	12"

GRANULAR BEDDING SHALL CONFORM TO CONN. DOT SPECIFICATION M.02.01

TABLE R2 CLASSIFICATION OF RIPRAP

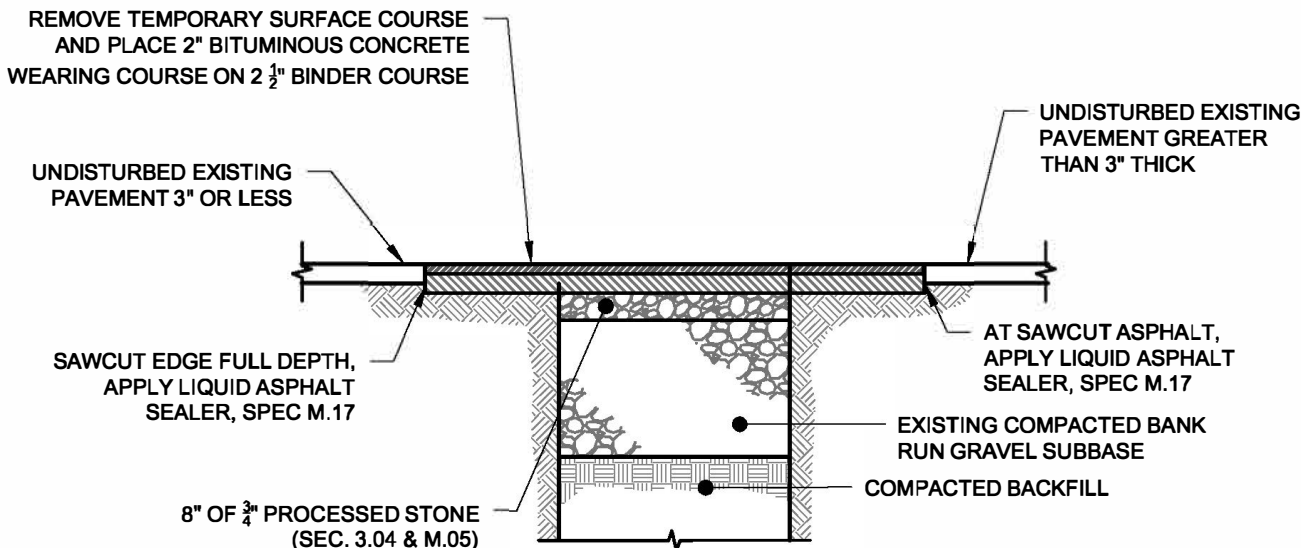
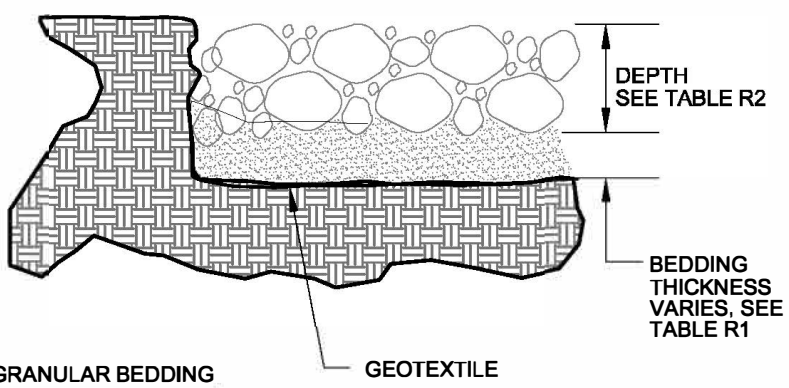
RIPRAP DESIGNATION	d <sub>50</sub> (INCHES)	DEPTH (INCHES)
MODIFIED	5	12
INTERMEDIATE	8	18
STANDARD	15	36

d<sub>50</sub> = MEAN PARTICLE SIZE  
RIPRAP SPECIFICATIONS & GRADATIONS SHALL CONFORM TO CONN. DOT. M.12.02

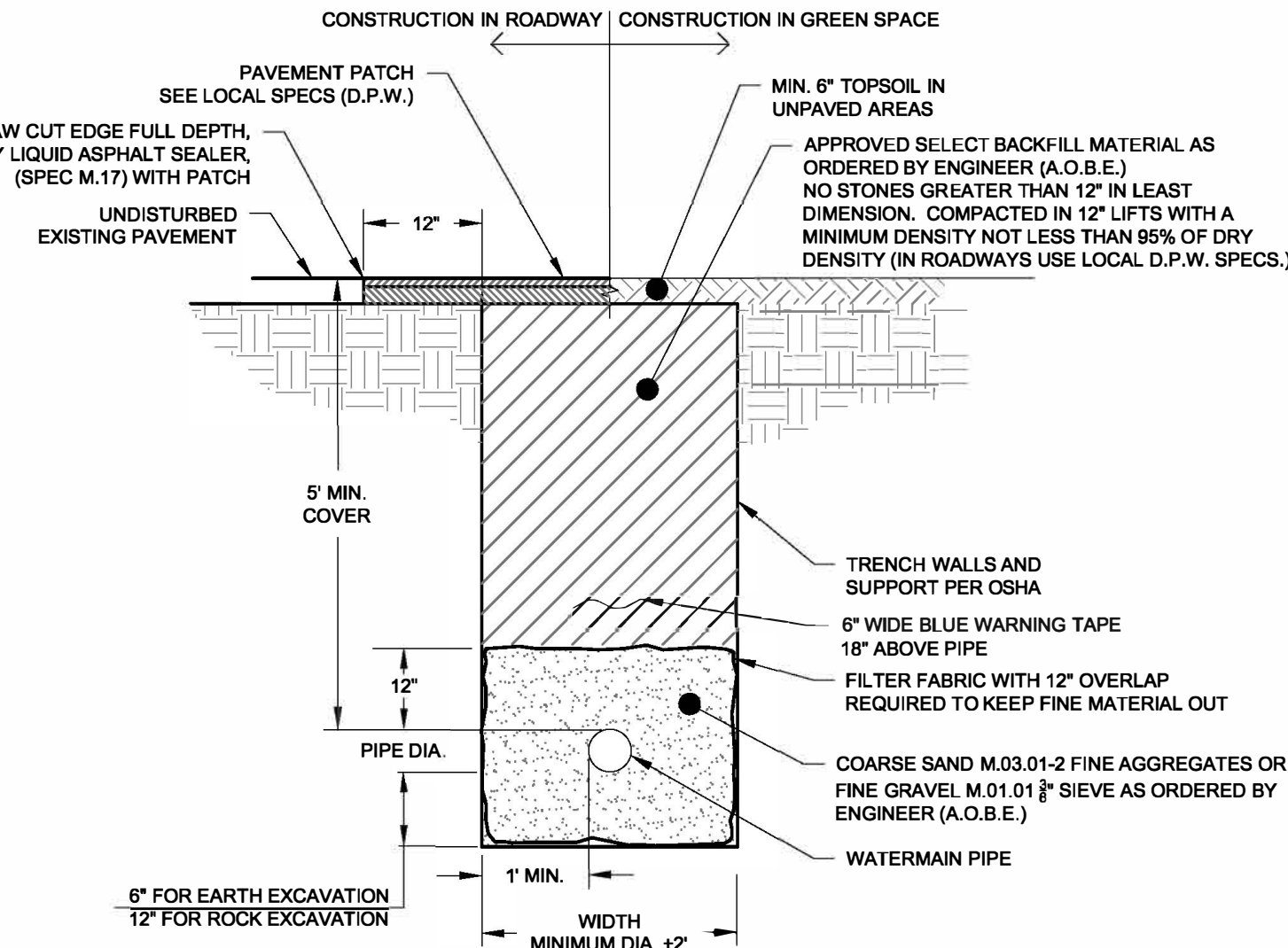
RIPRAP INSTALLATION DETAIL  
N.T.S.

TABLE R3 GRADATION FOR GRANULAR BEDDING

U.S. STANDARD SIEVE SIZE	PERCENT WEIGHT BY PASSING CONN. DOT. GRADATION A
5"	100
3 1/2"	100
1 1/2"	55-100
3/4"	-
1/4"	25-60
#10	15-45
#40	5-25
#100	0-10
#200	0-5

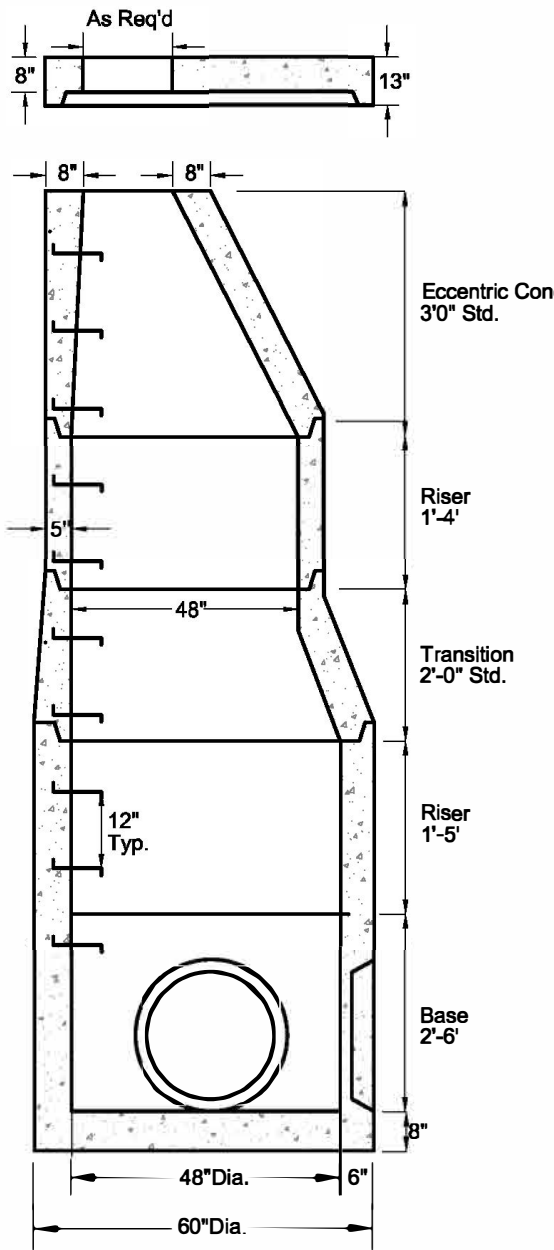


PERMANENT PAVEMENT PATCH DETAIL  
N.T.S.



NOTES:  
1. CRUSHED STONE SHALL ONLY BE USED AS BEDDING MATERIAL IN HIGH GROUND WATER CONDITIONS. APPROVAL FROM LOCAL AUTHORITY (WATER DEPARTMENT/DPW) IS REQUIRED PRIOR TO INSTALLATION.  
2. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM WITH LOCAL STANDARDS.

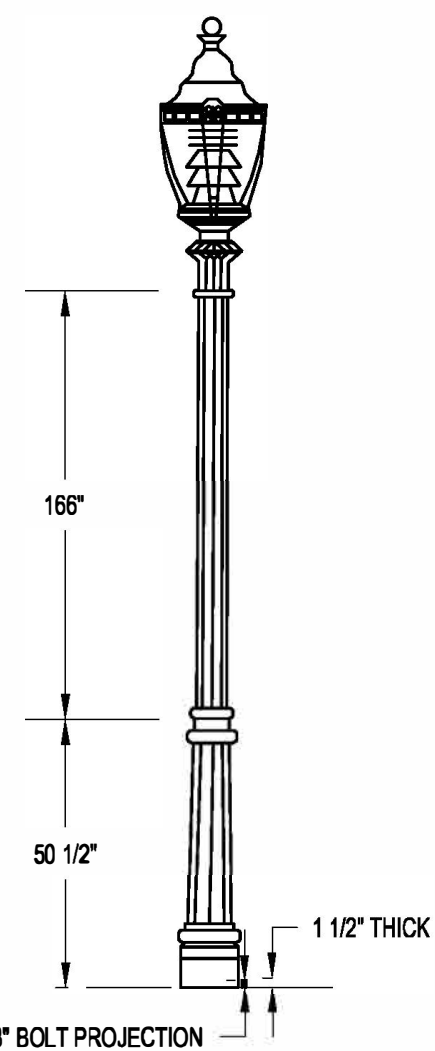
TYPICAL WATERMAIN TRENCH  
N.T.S.



PIPE DIAMETER	MIN. BARREL DIAMETER (MIN)
24" OR LESS	4"
27"-30"	5"
42"	6"
48"	7"
54"-60"	8"

NOTES:  
1. Reinforcing steel conforms to latest ASTM A195 Spec. 0.24 sq. in./lin. ft. and 0.24 sq. in. (both ways) base bottom. Flat slab tops for AASHTO H20-44.  
2. Reinforcing steel conforms to latest ASTM A195 Spec. 0.12 sq. in./lin. P8. 3.  
3. Concrete compressive strength - 4,000 PSI - 28 days.  
4. Manhole design specifications conform to latest ASTM C478 Spec. for "Precast Concrete Manhole Sections".  
5. One pour monolithic Base.  
6. Steel Reinforced Copolymer Polypropylene plastic step (PS2-FSL M.A. INDUSTRIES, INC.) conforms to latest ASTM C478 PARA. 11.  
7. Butyl Rubber Section Joint conforms to latest ASTM C443 SPEC and SPEC FEDERAL SS-S-210A.  
8. When specified Manholes coated with KOPPERS SUPER SERVICE BLACK or equal.

STORMWATER  
PRECAST CONCRETE MANHOLE DETAIL  
N.T.S.

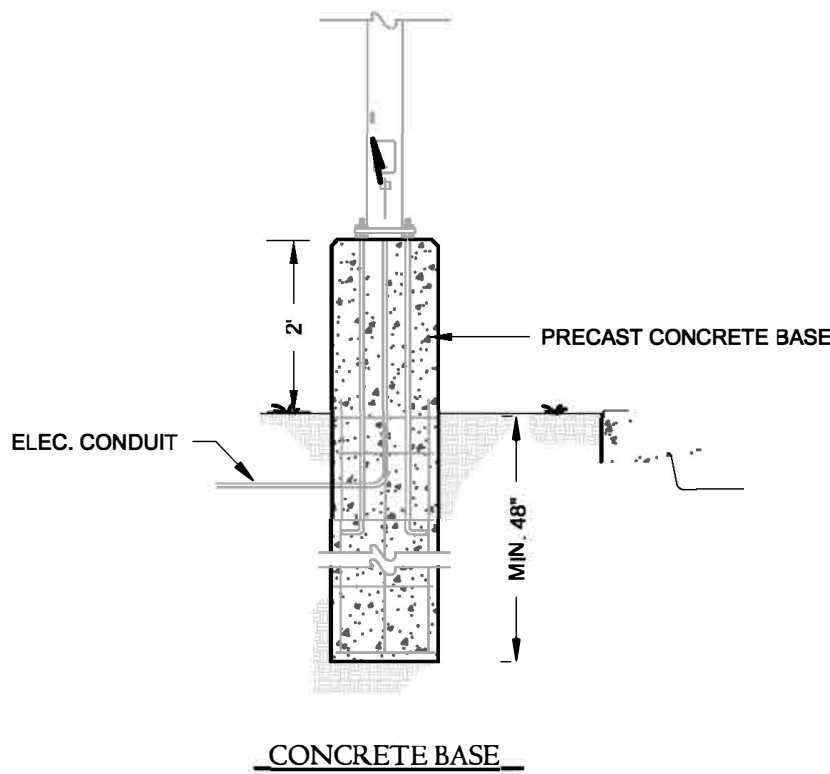


TYPICAL LAMP POST DETAIL  
N.T.S.

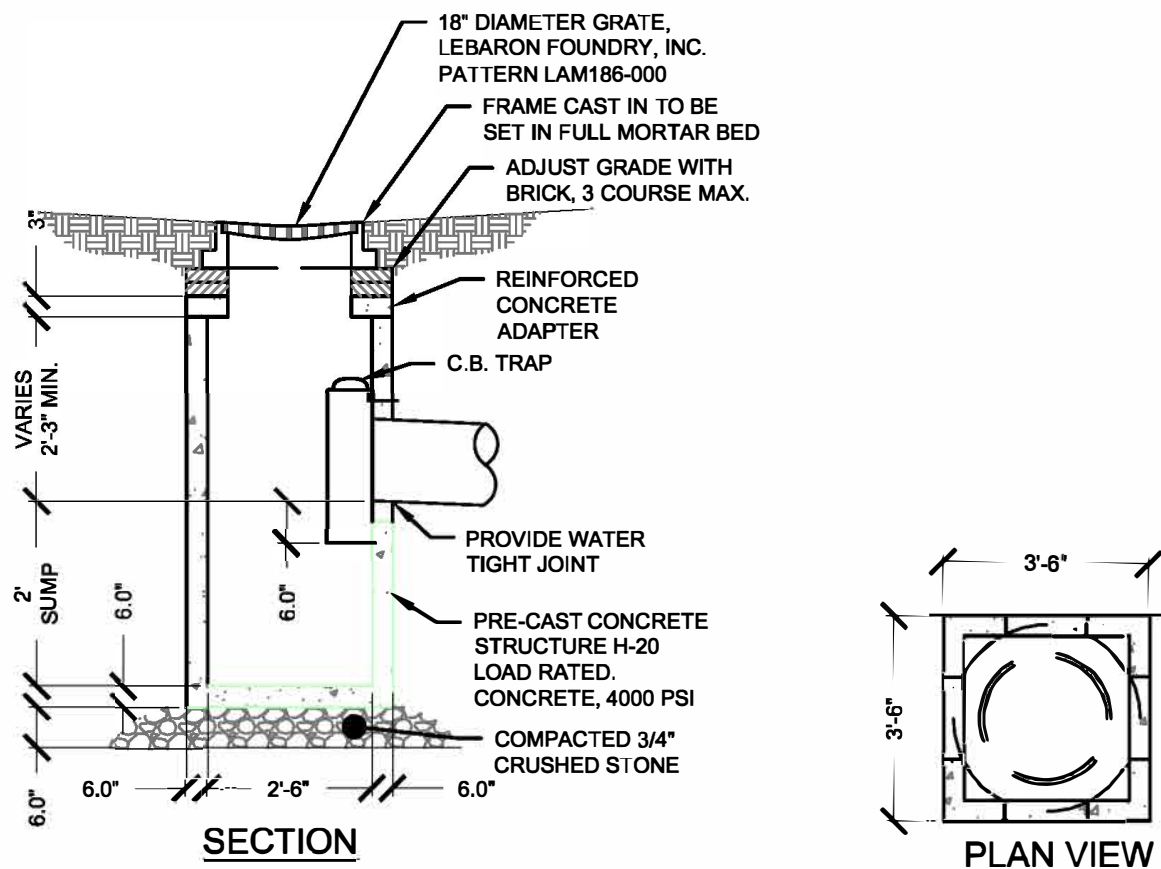
NOTES:  
1. Any revision to the fixture and pole shown shall be reviewed and approved by the Town Planner, and shall be complimentary to the lighting with the proposed development.  
2. Any Lighting shown with the State Highway Right-of-way subject to review and approval by ConnDOT.  
3. All lighting poles be set on 2' high concrete bases.

LUMINAIRE SPECIFICATION  
Manufacturer: King Luminaire Co. - Jefferson, Ohio  
Style: Catalog #K124-LAR-100HPS-III-K16-WRS  
Material: Globe OR Acrylic Ornamentation/Capitol Cast Aluminum  
IES Type: Type III Medium Semi-Cutoff  
Lamp: 100 Watt LED  
Voltage: Advise  
Capitol: K16  
Options: Vesting House Rings and Struts  
Finish: Advise Color

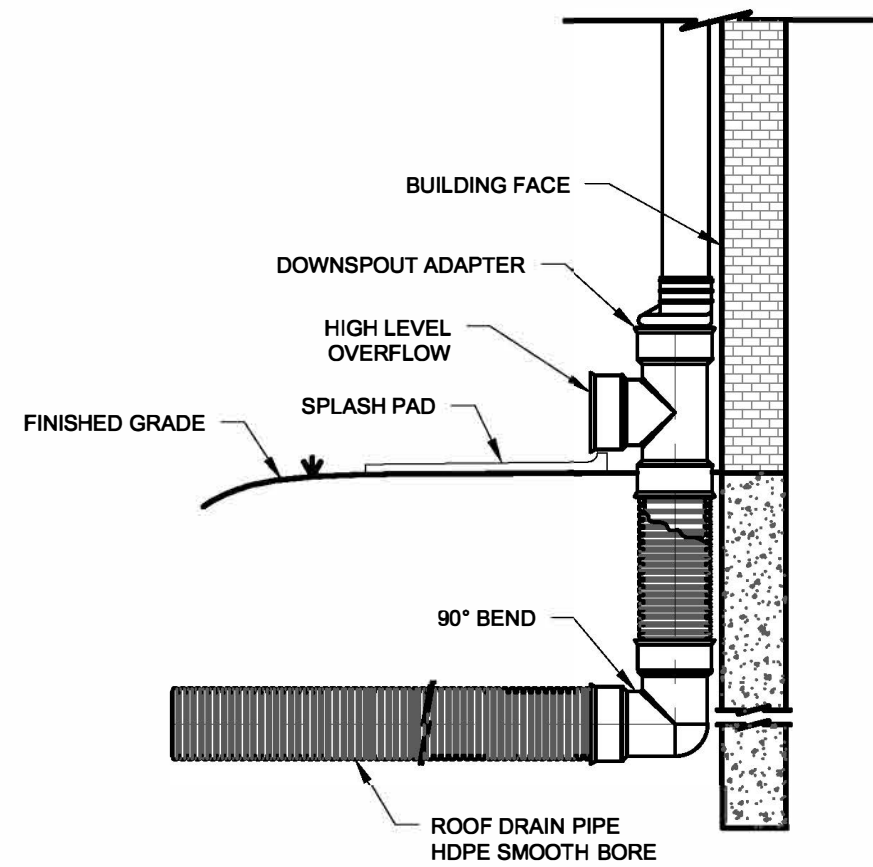
LAMP POST SPECIFICATION  
Manufacturer: Alloy Casting, Inc. - East Bridgewater, Ma.  
Style: Plymouth/Extruded Cat. #ACDP-P-10E  
Material: Base Heavy Wall Cast Aluminum, Alloy #356  
Shaft-5" OD Extruded Aluminum, 0.025" Wall  
Thickness: Alloy #6063-T  
Height: 10 Foot overall  
Bolt Circle: 14" Diameter - 4 Bolt Pattern  
Anchor Bolt: (4) 1/4"x24"+3" Hook, Hot Dipped Galvanized  
Finish: Advise Color  
Options: N/A



CONCRETE BASE



YARD DRAIN  
N.T.S.

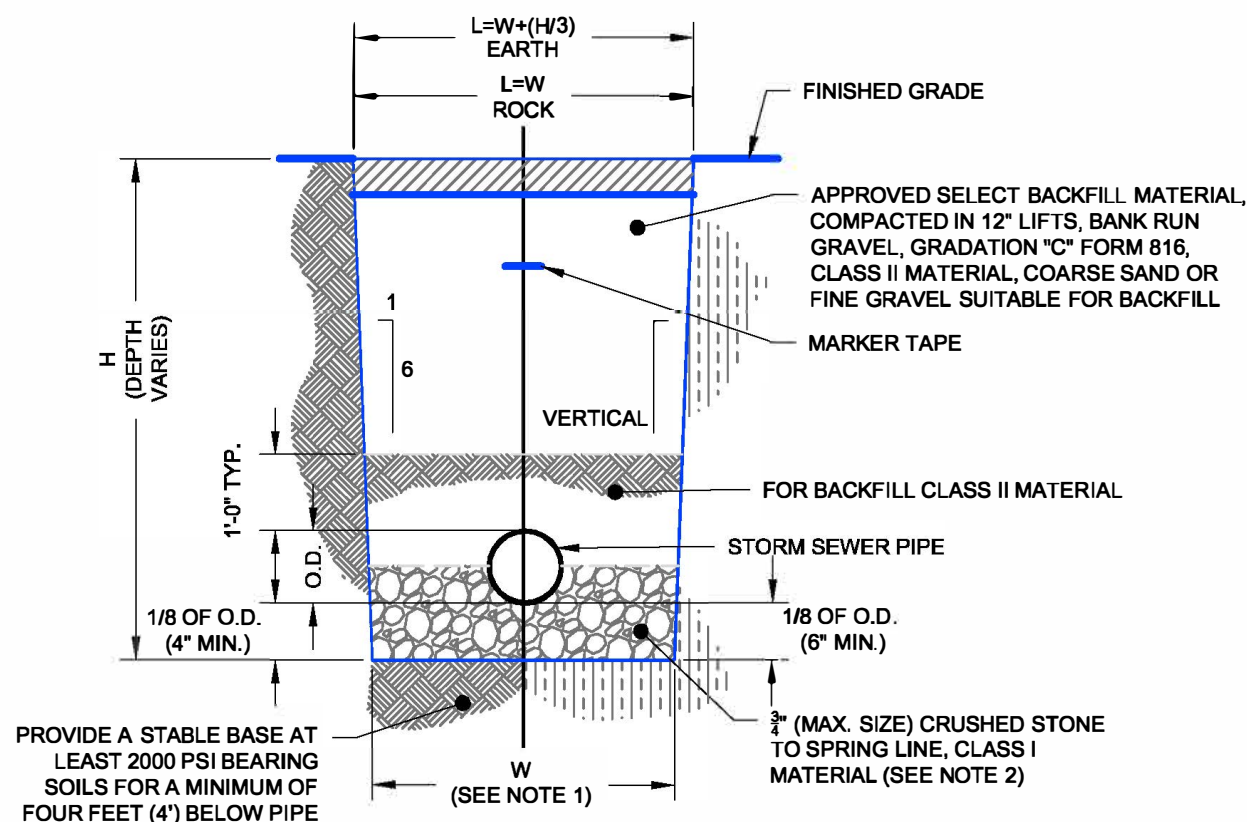


ROOF DRAIN WITH HIGH LEVEL  
OVERFLOW  
N.T.S.

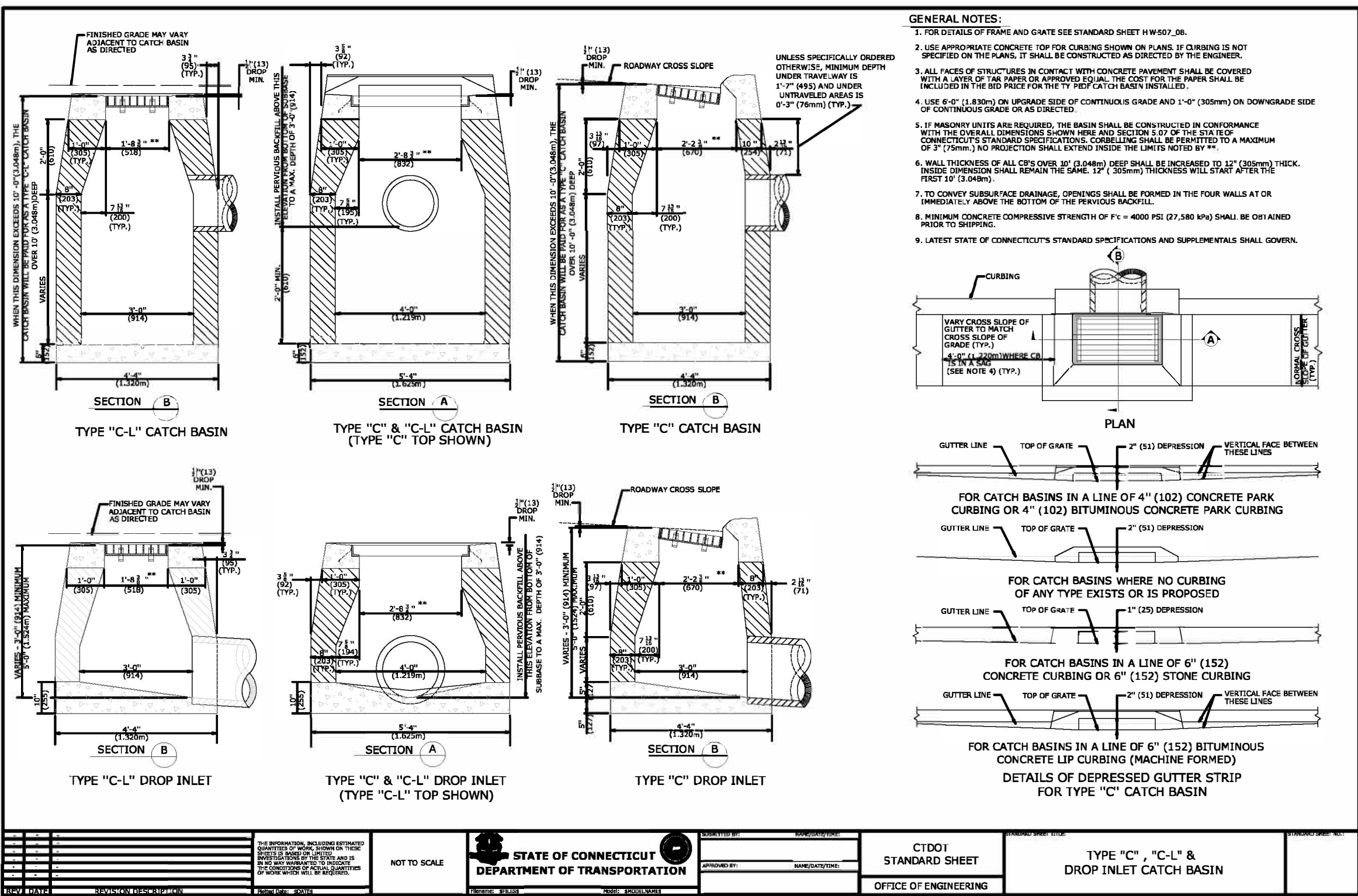
DIMENSIONS FOR REINFORCED CONCRETE CULVERT END								FLARE REINFORCEMENT			
DIA.	A	B	C	D	E	F	R <sub>1</sub>	R <sub>2</sub>	ONE LAYER ONLY IN CENTER OF WALL	MIN. AREA OF LONGITUDINAL STEEL SO. IN PER FT.	MIN. AREA OF TRANSVERSE STEEL SO. IN PER FT.
12"(305)	4'-10"	2'-0"	4'-8" (241)	6'-8" (185)	2'-0"	1'-7" (569)	10" (254)	0" (229)		0.048	0.048
15"(381)	6'	2'-3"	5'-10"	6'-11"	2'-6"	2'-0"	1'-0"	1'-1"		0.054	0.054
18"(457)	8'	2'-6"	5'-10"	6'-11"	3'-0"	2'-5" (737)	1'-3"	1'-0"	0.060	0.060	0.060
21"(533)	9'	2'-11"	5'-2"	6'-11"	3'-0"	2'-6"	1'-3"	1'-0"	0.066	0.066	0.066
24"(610)	9'	3'-2"	2'-6"	6'-11"	4'-0"	2'-6"	1'-3"	1'-0"	0.072	0.072	0.072
30"(762)	1'-0"	4'-6"	1'-7"	6'-11"	5'-0"	3'-11"	1'-6"	1'-3"	0.084	0.084	0.084
36"(914)	1'-3"	5'-3"	2'-10"	6'-11"	5'-0"	3'-11"	2'-6"	1'-3"	0.096	0.096	0.096
42"(1067)	1'-6"	5'-11"	2'-11"	6'-11"	5'-0"	3'-11"	2'-6"	1'-3"	0.108	0.108	0.108
48"(1219)	2'-0"	6'-2"	2'-2"	6'-11"	5'-0"	3'-11"	2'-6"	1'-3"	0.120	0.120	0.120
54"(1372)	2'-3"	6'-5"	2'-11"	6'-11"	5'-0"	3'-11"	2'-6"	1'-3"	0.132	0.132	0.132
60"(1524)	2'-6"	6'-11"	3'-0"	6'-11"	5'-0"	3'-11"	2'-6"	1'-3"	0.144	0.144	0.144

REINFORCED CONCRETE CULVERT END  
N.T.S.

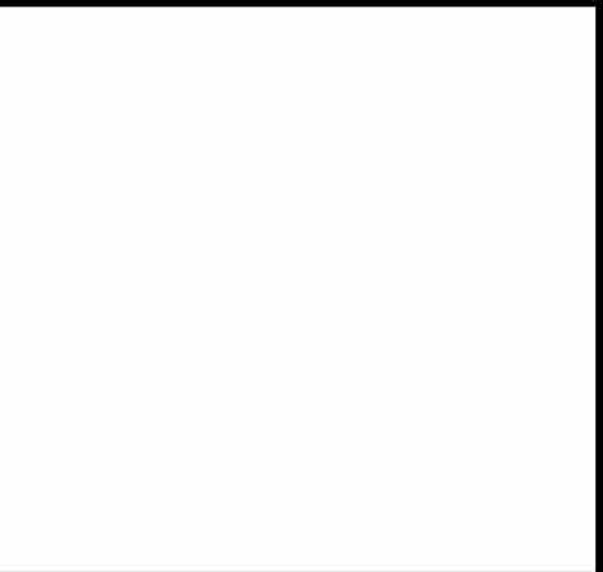
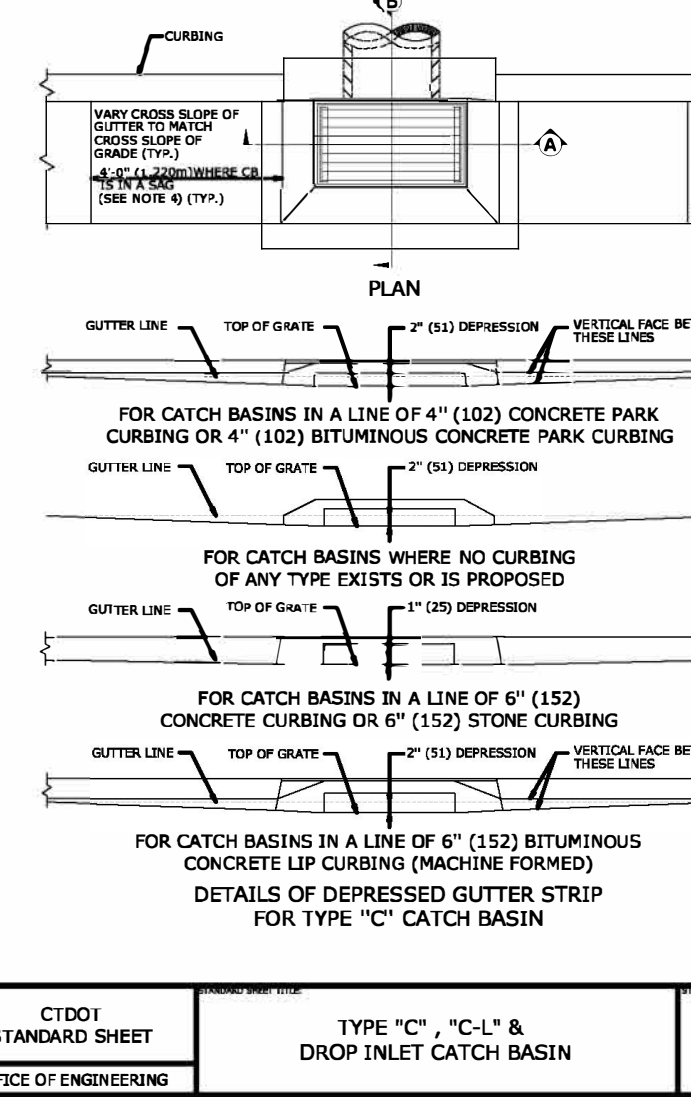
NOTES:  
1. FOR UNSHEETED TRENCH WHERE PIPE O.D. IS 6" OR LESS, PAYMENT WIDTH (W) = 2'-4". WHERE PIPE O.D. IS GREATER THAN 6" BUT LESS THAN OR EQUAL TO 36" TIEN, W = O.D. + 2'-0". WHERE PIPE O.D. IS GREATER THAN 36" TIEN, W = O.D. + 3'-0".  
2. IF SUITABLE GRANULAR PIPE BEDDING MATERIAL IS AVAILABLE FROM ON SITE EXCAVATIONS, IT SHALL BE UTILIZED PROVIDED IT CONFORMS WITH THE 'STANDARD SPECIFICATIONS' AND IS APPROVED BY THE ENGINEER. NO PAYMENT SHALL BE MADE FOR THIS MATERIAL.  
3. TYPICAL FOR PIPE MATERIALS SPECIFIED, AS CAST IRON (C.I.), CONCRETE PIPE, DUCTILE IRON PIPE OR STEEL PIPE.  
4. SHEETING OR SHORING OF TRENCH WALLS, WHERE UNSUITABLE CONDITIONS EXIST, IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.  
5. FOR ROCK REMOVAL DEPTHS (D) GREATER THAN 10", INCREASE PAYMENT WIDTH (W) BY 6". REMOVAL DEPTH SHALL BE MEASURED FROM THE TOP OF EXPOSED SURFACE.



STORM CLASS 'C' TRENCH DETAIL  
N.T.S.



GENERAL NOTES:  
1. FOR DETAILS OF FRAME AND GATE SEE STANDARD SHEET H-507.06.  
2. USE APPROPRIATE CONCRETE TOP FOR CURBING SHOWN ON PLANS IF CURBING IS NOT SPECIFIED ON THIS PLAN. IT SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER.  
3. ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF 1/2" SAND OR APPROVED EQUIV. THE CURB OR THE PAVEMENT SHALL BE INCLUDED IN THE BID PRICE FOR THE TYPICAL CURBING DETAILS.  
4. USE 4" (103mm) ON UPGRADE SIDE OF CONTINUOUS GRADE AND 1'-0" (305mm) ON DOWNSLOPE SIDE OF CONTINUOUS GRADE OR AS DIRECTED.  
5. IF MANHOLE SEWERS ARE REQUIRED, THE MAIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE OVERALL CONSTRUCTION DRAWING AND SECTION 4.07 OF THE SIX (6) TOP CURBING (TYPE 1) IS REQUIRED FOR CONSTRUCTION. CROSS THE CURBING REINFORCED BY A MAXIMUM THREE (3) REINFORCING BARS. THE CURBING SHALL BE 12" (305mm) THICK. THE CURBING SHALL REMAIN THE SAME 12" (305mm) THICKNESS WILL START AFTER THE FIRST 3' (914mm).  
6. WALL THICKNESS OF ALL CURBING (3" (76mm)) DEEP SHALL BE INCREASED TO 12" (305mm) THICK. THE CURBING SHALL REMAIN THE SAME 12" (305mm) THICKNESS WILL START AFTER THE FIRST 3' (914mm).  
7. TO CURBING SUBSURFACE DRAINAGE, OPENINGS SHALL BE FORMED IN THE FOUR WALLS AT OR IMMEDIATELY ABOVE THE BOTTOM OF THE PREVIOUS MANHOLE.  
8. MINIMUM CONCRETE COMPRESSIVE STRENGTH OF FC = 4000 PSI (27,580 kPa) SHALL BE OBTAINED PRIOR TO REMOVAL.  
9. LATEST STATE OF CONNECTICUT'S STANDARD SPECIFICATIONS AND SUPPLEMENTALS SHALL GOVERN.



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PROJECT NAME:  
**PROPOSED  
MULTI-FAMILY  
DEVELOPMENT**

Parcel# 10-2-83-13  
522 Berlin Turnpike  
Berlin, Connecticut

OWNER & PREPARED FOR:  
**550-554  
BERLIN  
TURNPIKE  
ASSOC. LLC**

Sheet Description:

DETAILS

Scale:

N.T.S.

Date: July 21 2023

Project #: 1908 F.B. #: ---

Drawn By: BTP/BNB Approved By: BNB

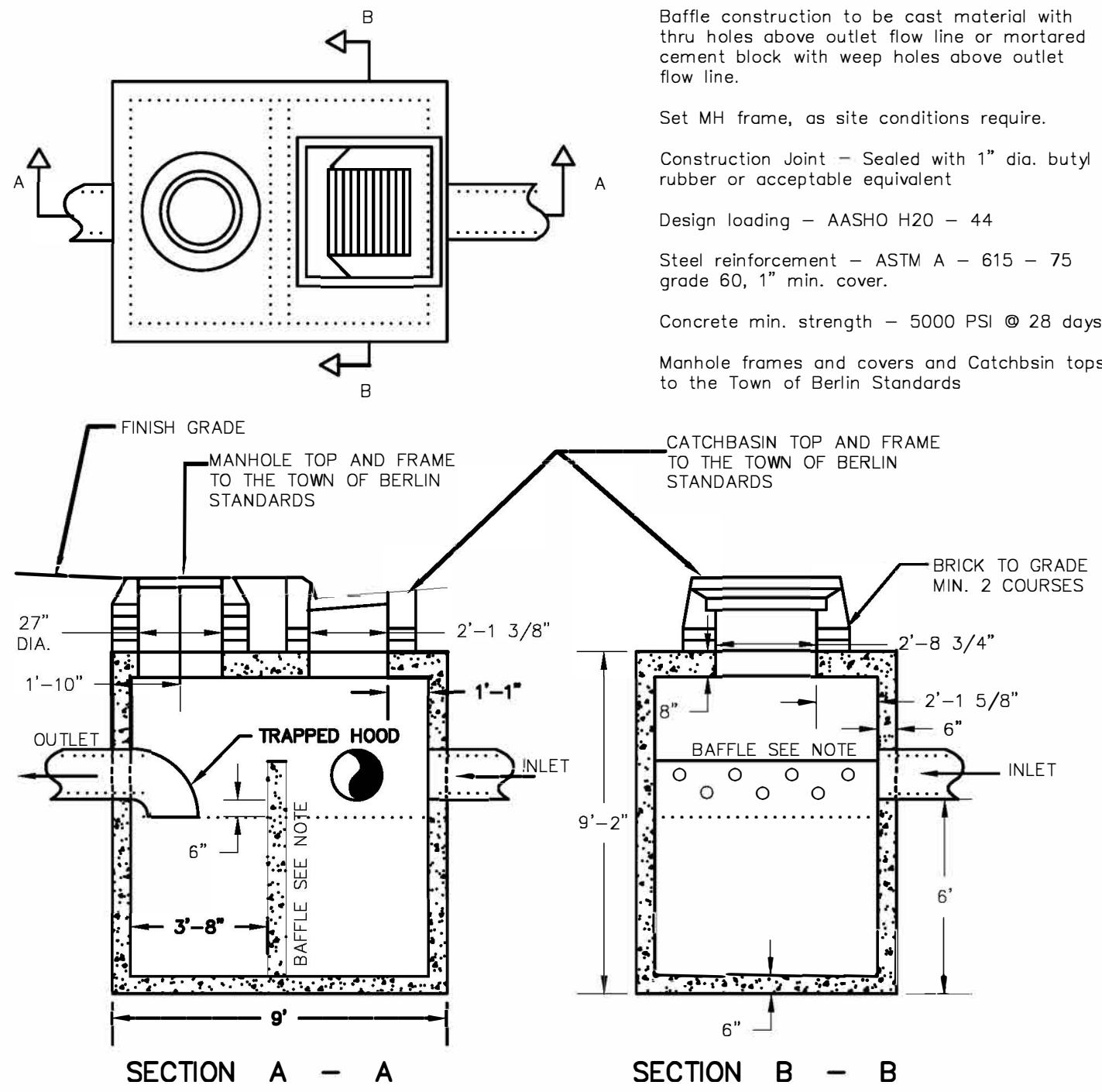
Date:	Descriptions:
Dec. 7, 2022	Comment Revisions
Dec. 14, 2022	Revisions
Jan. 11, 2023	Comment Revisions
March 6, 2024	Revised Layout

Sheet #:

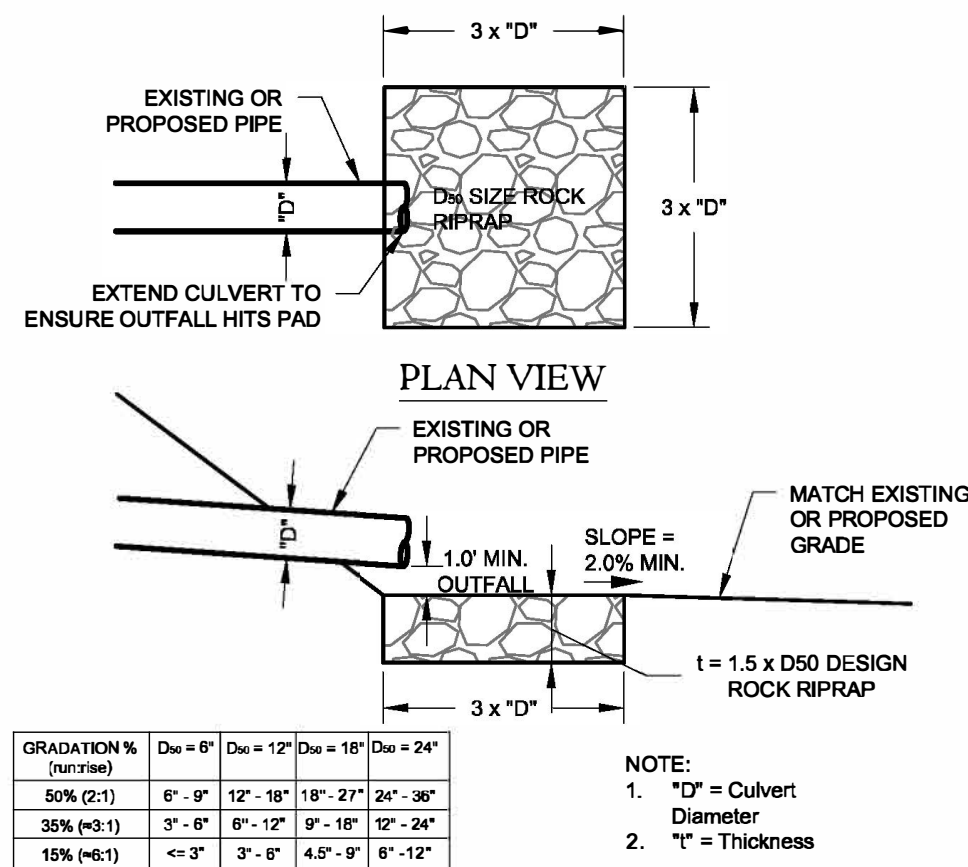
D2



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DETAIL SEDIMENTATION STRUCTURE  
NOT TO SCALE



RIPRAP SPLASH PAD DETAIL  
N.T.S.

TABLE R1 THICKNESS REQUIREMENTS FOR GRANULAR BEDDING	
RIPRAP DESIGNATION	MINIMUM BEDDING THICKNESS (INCHES)
MODIFIED	8"
INTERMEDIATE	9"
STANDARD	12"
SPECIAL DESIGN	12"

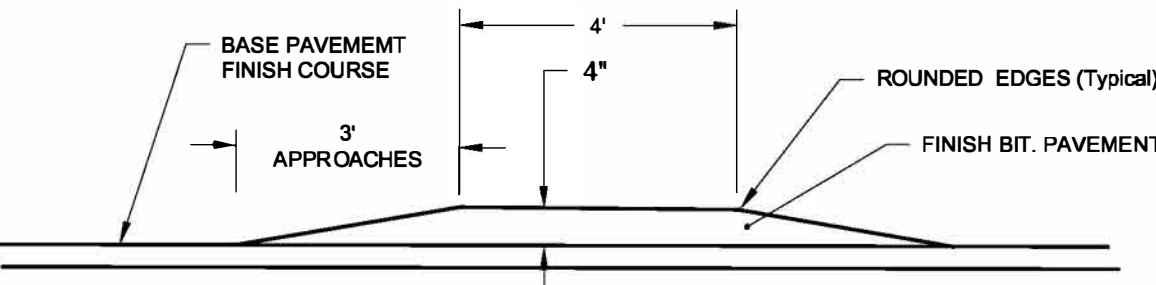
GRANULAR BEDDING SHALL CONFORM TO CONN. DOT SPECIFICATION M.02.01

TABLE R2 CLASSIFICATION OF RIPRAP		
RIPRAP DESIGNATION	D <sub>50</sub> (INCHES)	DEPTH (INCHES)
MODIFIED	5	12
INTERMEDIATE	8	16
STANDARD	15	36

D<sub>50</sub> = MEAN PARTICLE SIZE  
RIPRAP SPECIFICATIONS & GRADATIONS SHALL CONFORM TO CONN. DOT M.12.12

TABLE R3 GRADATION FOR GRANULAR BEDDING	
U.S. STANDARD SIEVE SIZE	PERCENT WEIGHT BY PASSING CONN. DOT GRADING A
5"	100
3 1/2"	100
1 1/2"	55-100
3/4"	-
1/4"	25-80
#10	15-45
#40	5-25
#100	0-10
#200	0-5

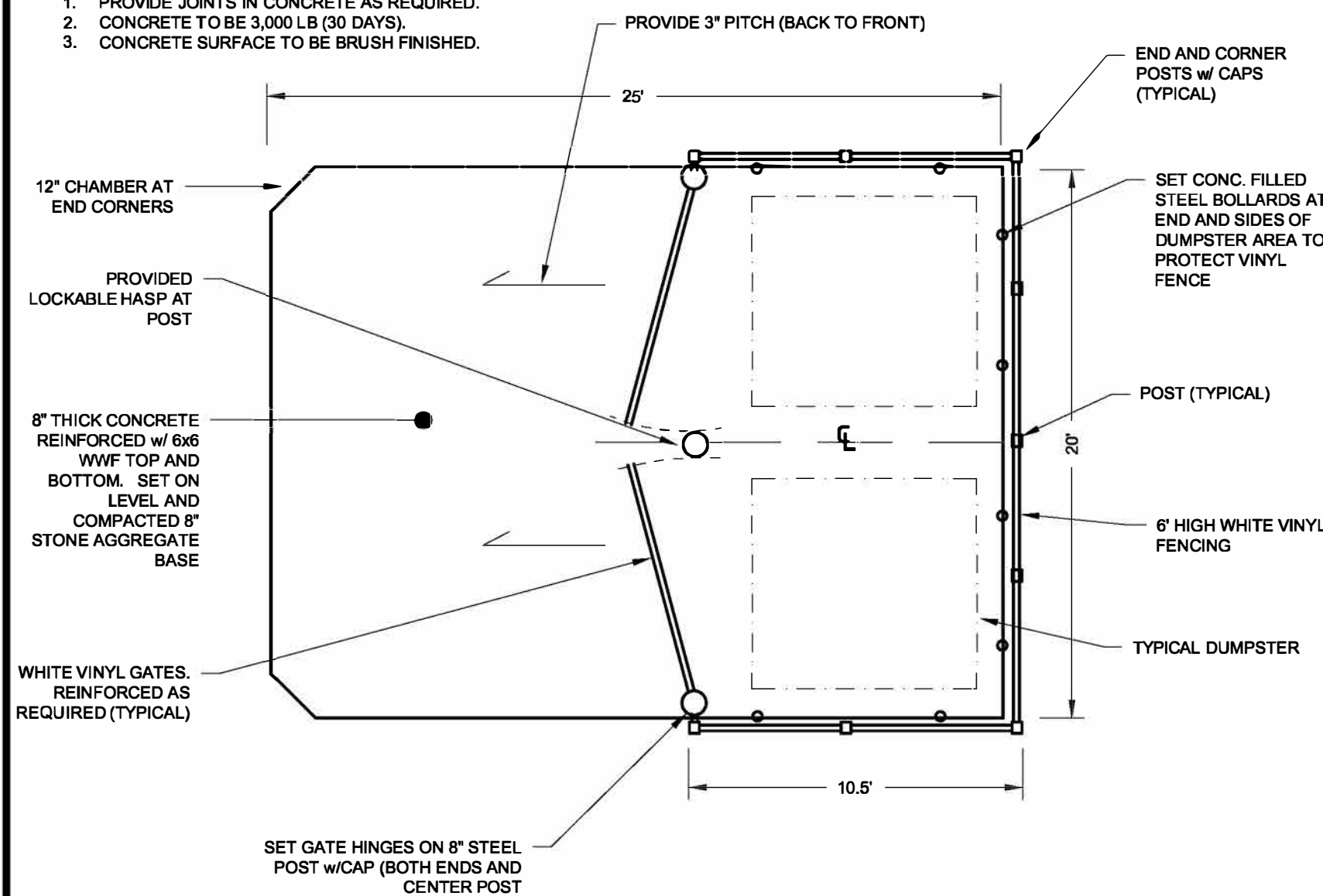
RIPRAP INSTALLATION DETAIL  
N.T.S.



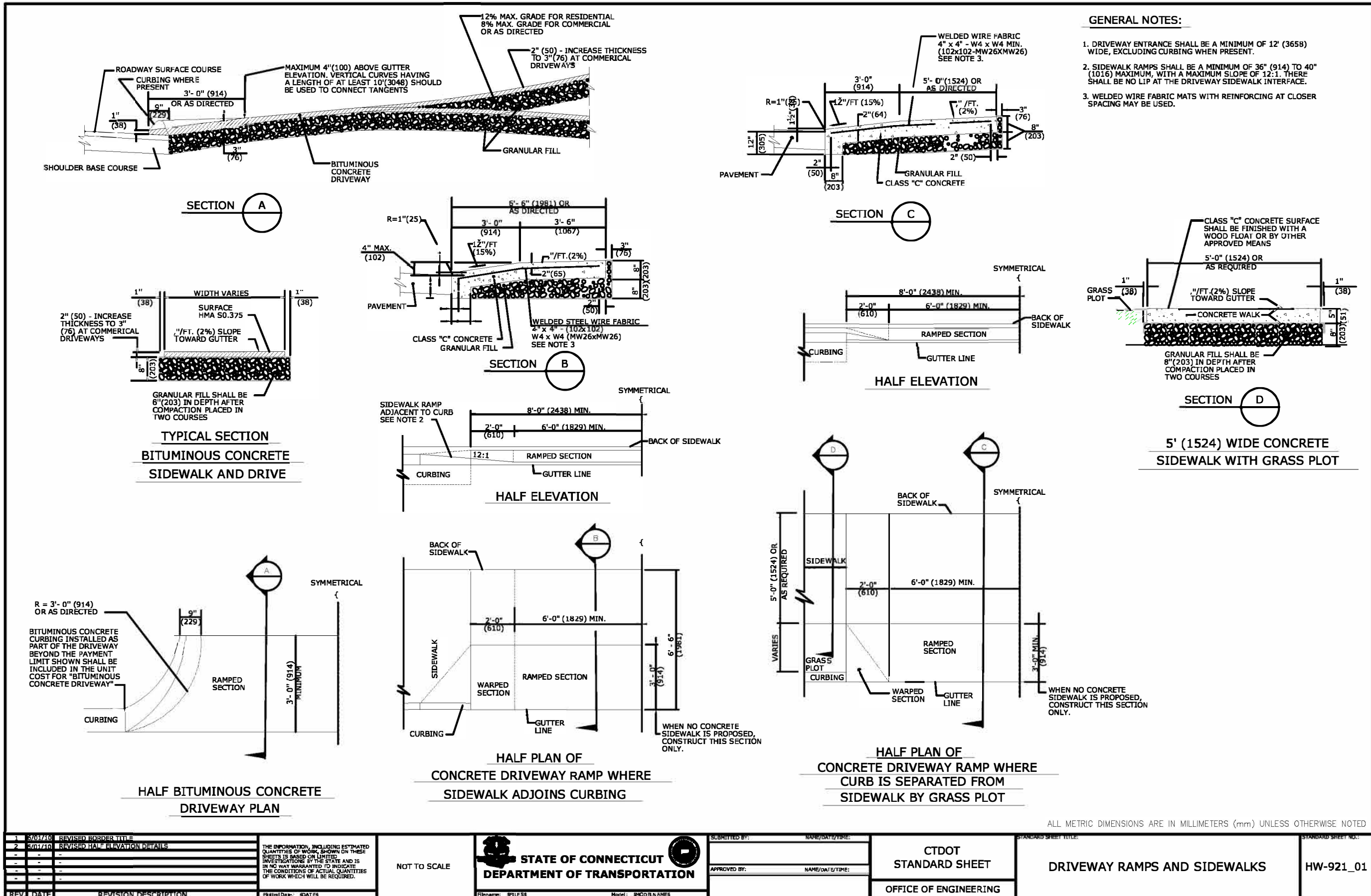
NOTES:  
1. SPEED BUMP SHALL BE PAINTED WITH YELLOW DIAGONAL MARKING AND/OR PEDESTRIANS CROSSING MARKINGS.  
2. SPEED BUMPS SHALL BE SIGNED IN BOTH DIRECTIONS TO ALERT DRIVERS.

BIT. SPEED BUMP  
NOT TO SCALE

NOTES:  
1. PROVIDE JOINTS IN CONCRETE AS REQUIRED.  
2. CONCRETE TO BE 3,000 LB (30 DAYS).  
3. CONCRETE SURFACE TO BE BRUSH FINISHED.



DUMPSTER ENCLOSURE AND CONCRETE PAD DETAIL  
NOT TO SCALE



STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

Do Not Delete

PROJECT NAME:  
**PROPOSED  
MULTI-FAMILY  
DEVELOPMENT**

Parcel# 10-2-83-13  
522 Berlin Turnpike  
Berlin, Connecticut

OWNER & PREPARED FOR:

550-554  
BERLIN  
TURNPIKE  
ASSOC. LLC

Sheet Description:

DETAILS

Scale:

N.T.S.

Date: July 28, 2022

Project #: 1908

F.B. #: ---

Drawn By: BTP/BNB

Approved By: BNB

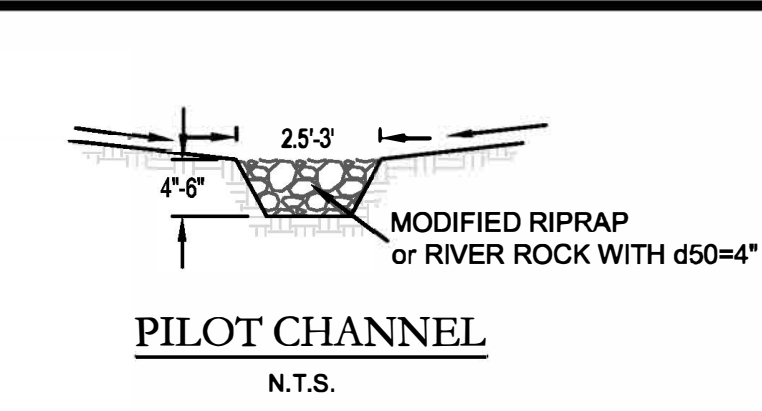
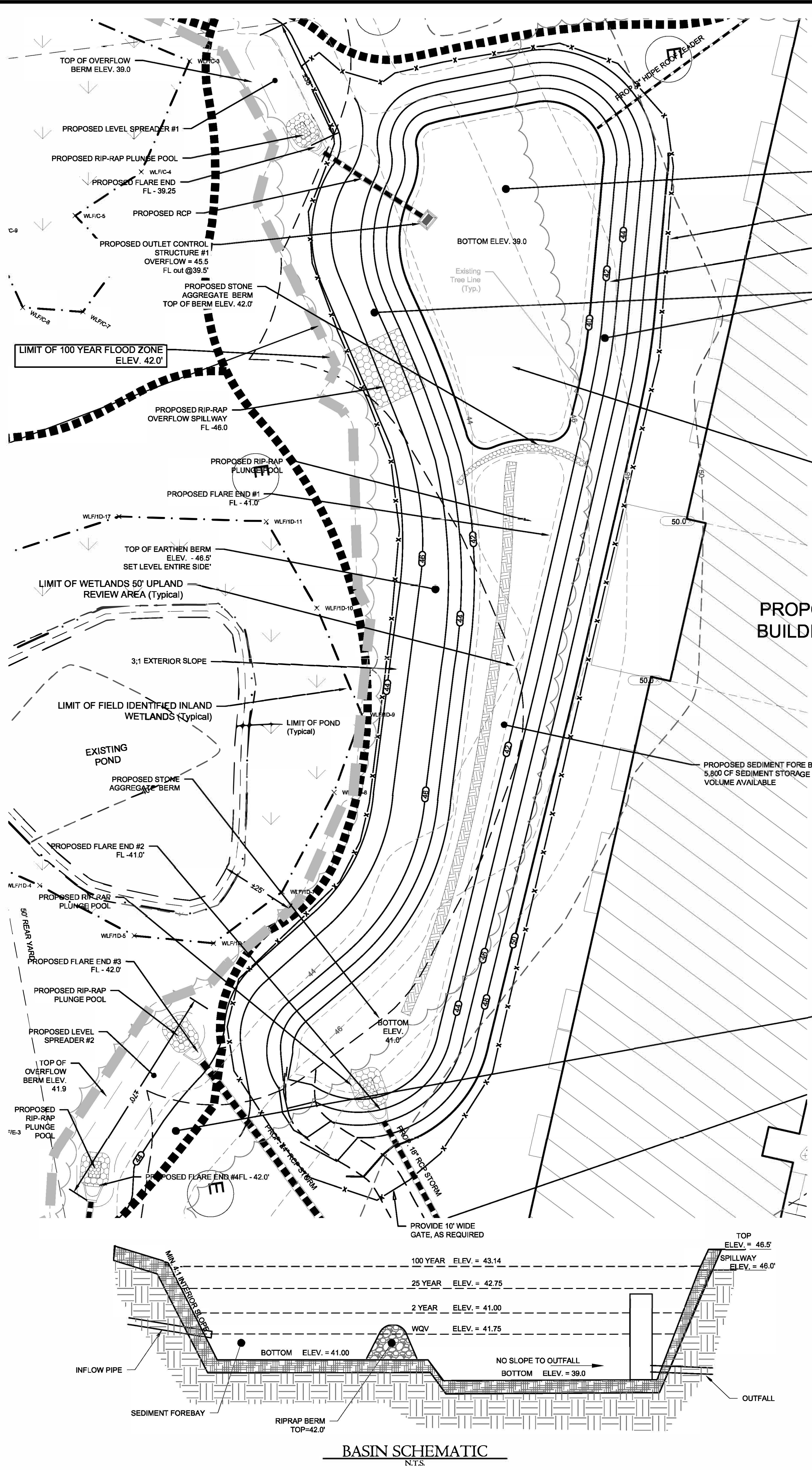
Revisions:

Date:	Descriptions:
Dec. 7, 2022	Comment Revisions
Jan. 11, 2023	Comment Revisions
March 6, 2024	Revised Layout

Sheet #:

D3



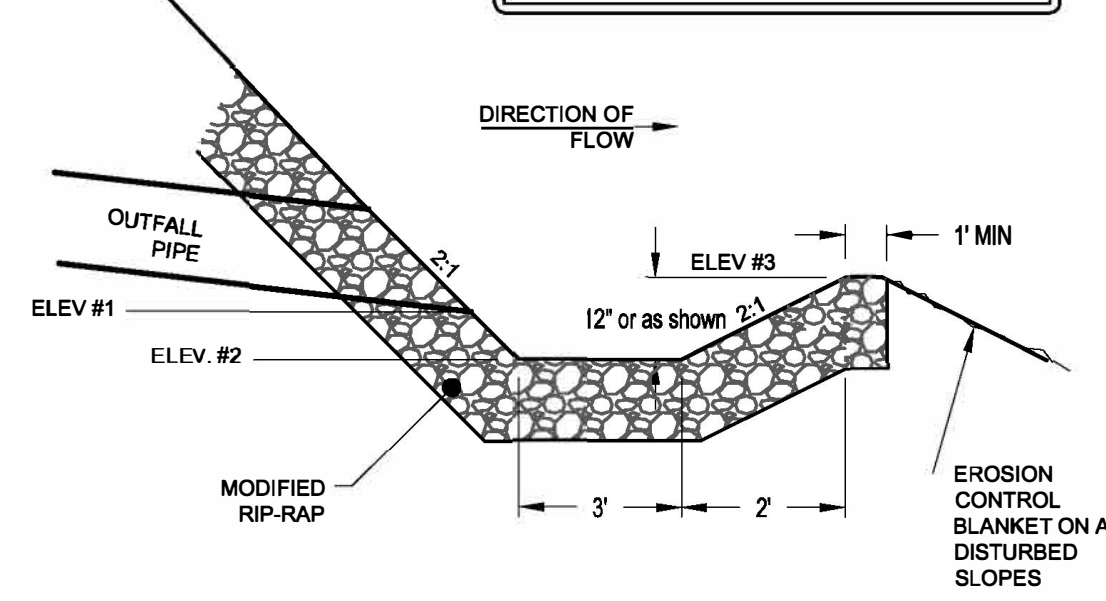


**LEGEND**

	= Existing utility pole		= Existing edge of pavement
	= Existing light pole		= Proposed curbing
	= Proposed Light		= Existing/Proposed well
	= Existing fire hydrant		= Existing catch basin
	= Proposed fire hydrant		= Existing drainage manhole
	= Existing water valve		= Existing sanitary manhole
	= Existing gas valve		= Proposed catch basin
	= Existing underground pipe		= Proposed manhole
	= Existing treeline		= Existing utility box
			= Proposed sidewalk ramp

	= Existing contour		= Existing spot elevation
	= Proposed contour		= Proposed spot elevation
	= Deep test location		= Percolation test location
	= Grade to drain		= Proposed Riprap
	= Proposed Drainage Pipe		

ALL SLOPES GREATER THAN 3:1 TO BE STABILIZED IMMEDIATELY FOLLOWING CONSTRUCTION USING MATTING OR HYDROSEED WITH TACKIFIER



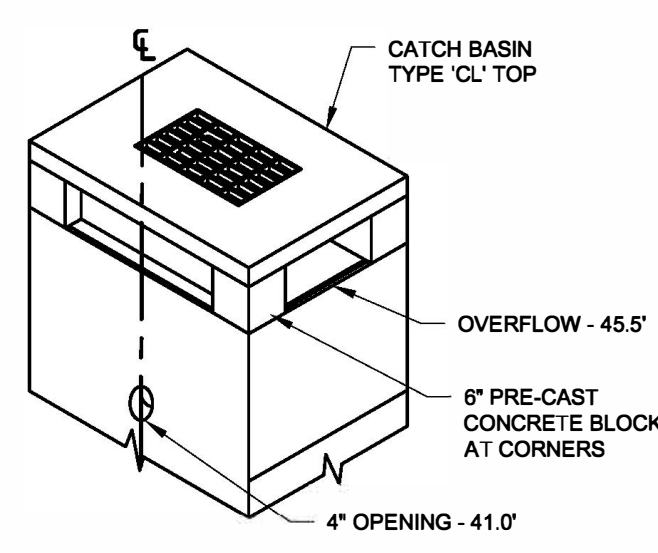
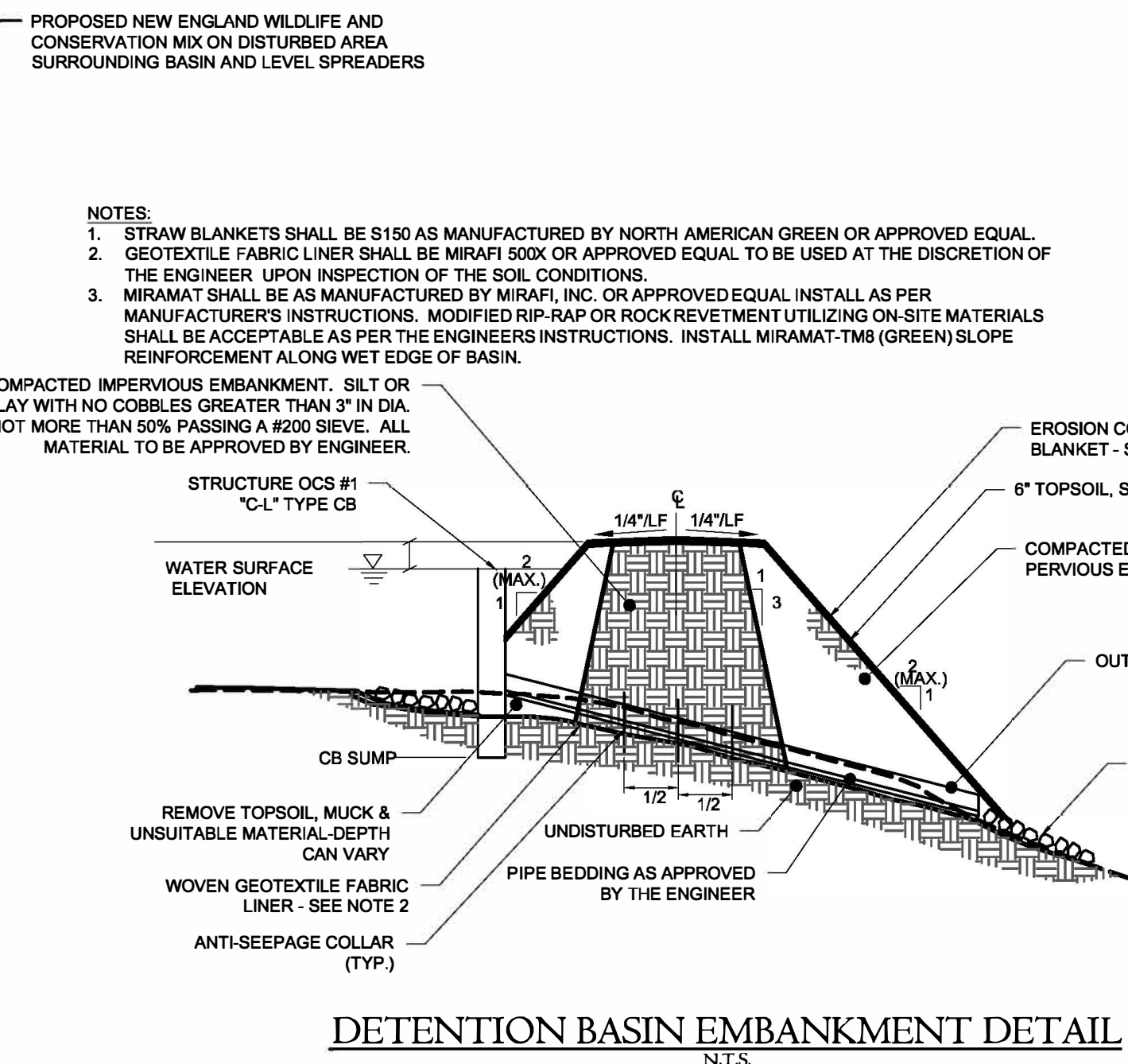
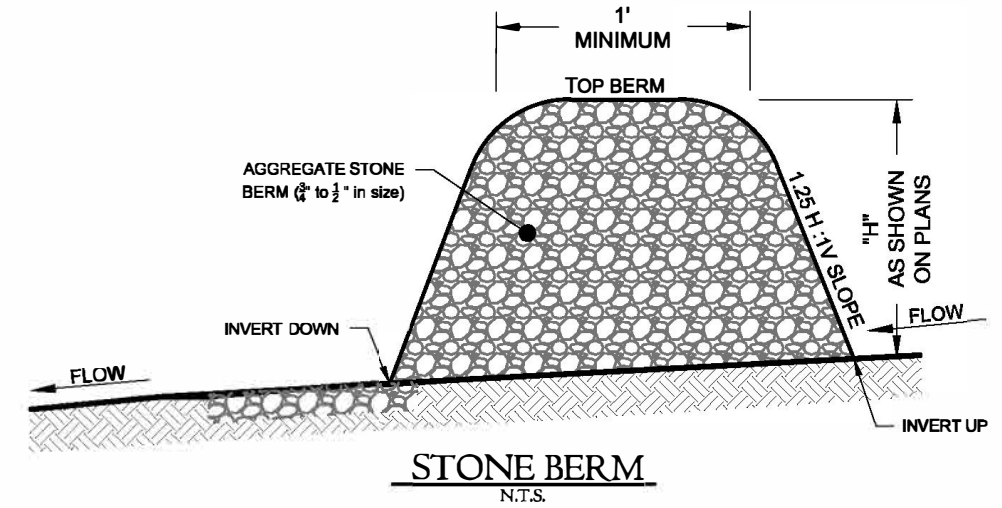
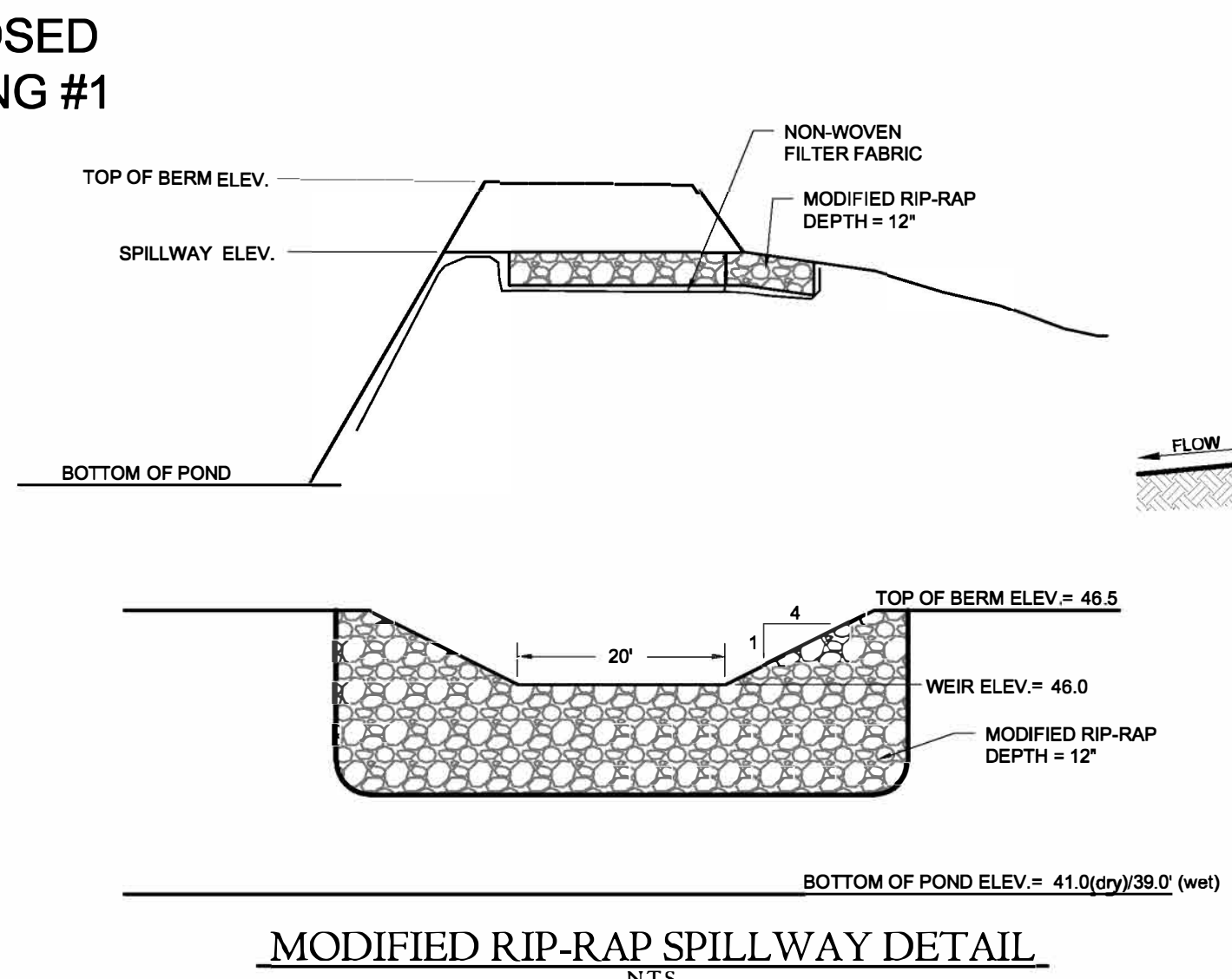
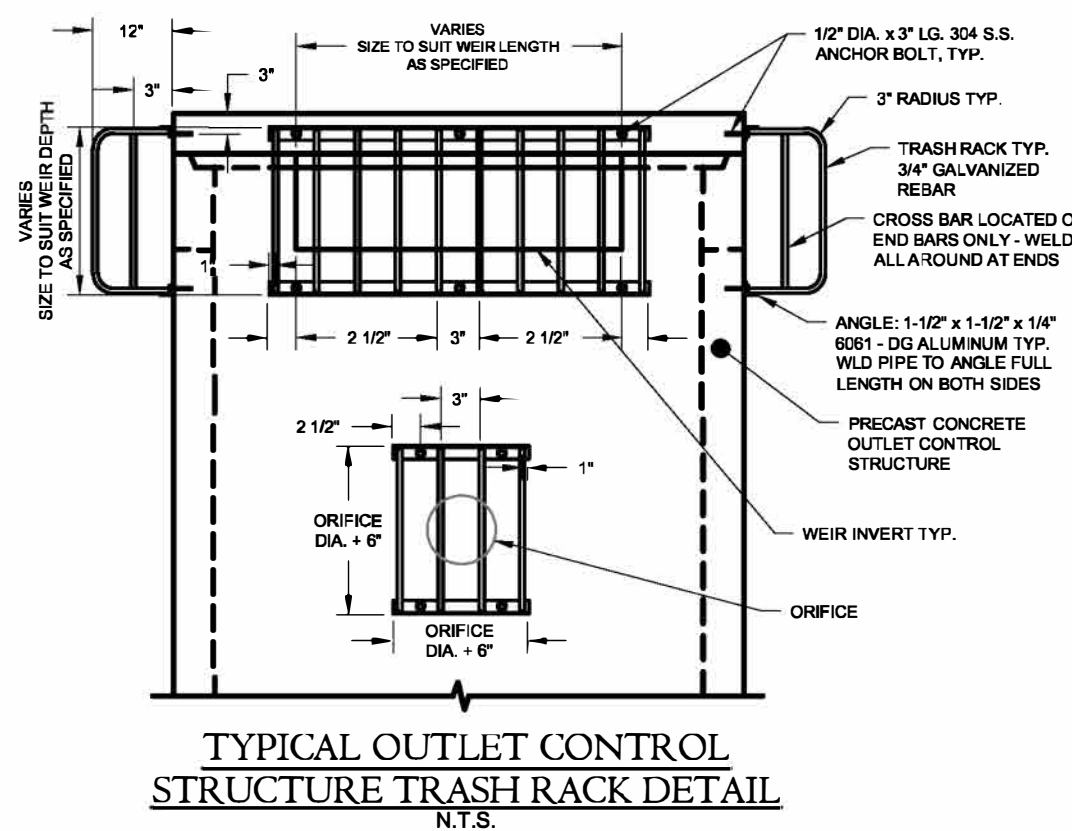
**SEED MIX & FABRIC LEGEND**

	NEW ENGLAND WET MIX APPLICATION RATE: 1 POUND/5,000 SQ. FT. LOCATION: BASIN BOTTOM
	NEW ENGLAND WILDLIFE AND CONSERVATION MIX APPLICATION RATE: 3 LB/5,000 SQ. FT. LOCATION: DISTURBED AREAS SURROUNDING BASIN
	NEW ENGLAND EROSION CONTROL/RESTORATION MIX APPLICATION RATE: 1 LB /1,250 SQ. FT. LOCATION: BASIN SIDES AND TOP
	SLOPE WITH EROSION CONTROL FABRIC S150 BY NORTH AMERICAN GREEN OR APPROVED EQUAL (LOAM AND SEED, THEN APPLY FABRIC) ALL SLOPES 3:1 OR STEEPER

**EROSION CONTROL SYMBOL LEGEND**

	SILT FENCE
	INLET PROTECTION
	STAKED BALES
	CHECK DAM WATTLE/sock or STONE
	EROSION CONTROL BLANKET
	TEMPORARY WATER BAR (WB) or DIVERSION CHANNEL (TD)

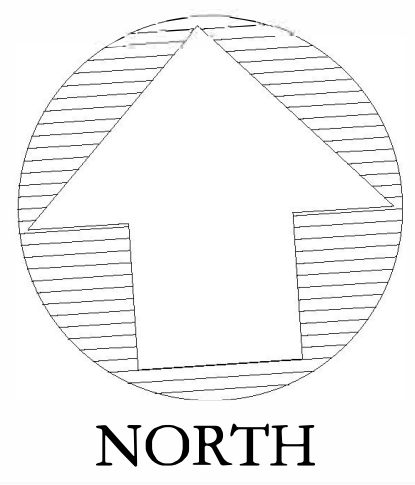
NOTES:  
1. CONTRACTOR IS TO SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OF THE STRUCTURE.  
2. TRASH RACK TO BE PROVIDED WITH A MINIMUM OF SIX STAINLESS STEEL ANCHOR BOLTS PER RACK. RACK TO BE DELIVERED WITH 5/8" DIAMETER HOLES PREDRILLED IN THE APPROPRIATE LOCATIONS.



**OUTLET CONTROL STRUCTURE #1 DETAIL**  
N.T.S.

**811**  
Know what's below.  
Call before you dig.

#13653  
Barton N. Bovee P.E.  
Reg. No.  
NOT VALID UNLESS EMBOSSED SEAL OR STAMP IS AFFIXED HERETO



**cole**  
HARRY E. COLE & SON  
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Fax: (860) 620-0198  
www.hecole.com

**PROJECT NAME:**  
**PROPOSED MULTI-FAMILY DEVELOPMENT**  
Parcel# 10-2-83-13  
522 Berlin Turnpike  
Berlin, Connecticut

**PREPARED FOR:**  
**550-554 BERLIN TURNPIKE ASSOC. LLC**

**Sheet Description:**  
**DETENTION BASIN DETAILS**

Scale: 30' 15' 0' 15' 30' 1"=30'

Date: July 21 2023

Project #	F.B. #
1908	---

Drawn By	Approved By
BTP/BNB	BNB

Revisions:	
Date:	Descriptions:
Dec. 7, 2022	Comment Revisions
Dec. 14, 2022	Revisions
Jan. 11, 2023	Comment Revisions
March 6, 2024	Revised Layout

Sheet #:  
**DB1**