

#51 MAGNOLIA CIRCLE
N/F
MERYL E. DARLING
BOOK 05457 PAGE 271

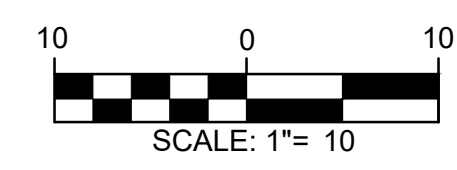
#65 MAGNOLIA CIRCLE
N/F
XUESONG LU
BOOK 13310 PAGE 430

#46 MAGNOLIA CIRCLE
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CORT J. DUDA
BOOK 19502 PAGE 302

#56 MAGNOLIA CIRCLE
N/F
ROBERT P. NEWMAN
BOOK 06919 PAGE 413

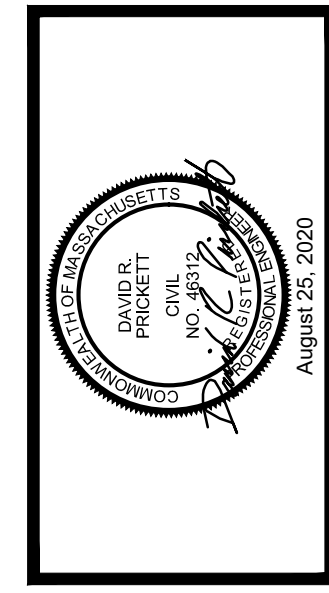
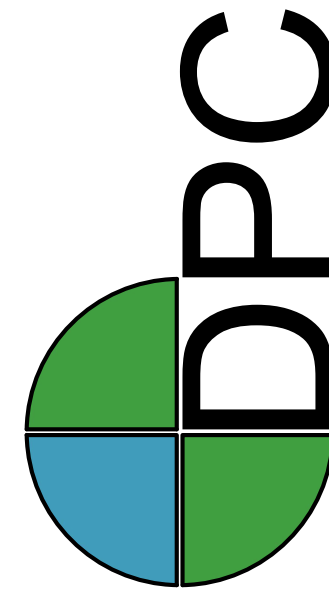
#64 MAGNOLIA CIRCLE
N/F
CARMELA DANIELE,
TRUSTEE
BOOK 20966 PAGE 244

UTILITY INVERT TABLE	
SMH#4	RIM EL. = 138.28
SMH#5	RIM EL. = 139.89
PCB#4	RIM EL. = 139.68
	INV IN EL. = 133.69(15"RCP N)
	INV OUT EL. = 133.42(15"PP S)
	INV IN EL. = 134.08(12"PP E)
PCB#5	RIM EL. = 139.79
	INV OUT EL. = 134.74(12"PP W)



MATCHLINE SHEET C-3

DPC ENGINEERING, LLC
22 Northfield Road
Longmeadow, MA 01106
(413) 567-5310
(413) 567-1030
DPCENGINEERING.COM



DATE:	DESCRIPTION:	ISSUED FOR:
8/6/2020	ISSUED FOR NOI	JMR 1
8/25/2020	ISSUED FOR BIDDING	DRP 2

DESIGNED BY:	CHECKED BY:	APPROVED BY:	ISSUED FOR:
JMR	DRP	DRP	BIDDING

PROPOSED SITE PLAN
(2 OF 2)

MAGNOLIA CIRCLE
DRAINAGE IMPROVEMENTS
PROJECT
DEPARTMENT OF PUBLIC WORKS
LONGMEADOW, MASSACHUSETTS

SCALE:	AS NOTED
SCALE SHEET SIZE:	22X34
JOB NO.:	
DATE:	AUGUST 2020
SHEET:	6 OF 10

C-4

Geosearch Inc.

Client: DPC Engineering LLC		Date: 7/2/20		Page # 1 of 1	
Location: Side of 64 Magnolia Circle, Longmeadow, MA					
Boring No.	Ground Elev	Date Start	Date Complete	Drilling Foreman	Eng/Hydrologist
B-1		7/1/20	7/1/20	Shawn Preston	

D E P T H	Sample Data				Strata Change Depth	Visual Identification of Soil and/or Rock Strata
	NO.	Depth(ft.)	Blows 6" Penetration	Rec. Inches		
1	0-2	3-5-5-6	13			Dry, brown, loose, Sand and gravel, trace asphalt.
2	2-4	5-5-3-2	20			Dry, brown, loose, fine to medium Sand.
3	4-6	WOH	18	Water		Wet, brown, very loose, fine to medium Sand.
4	6-8	5-6-5-6	12			Wet, brown/grey, loose, fine Sand some silt.
5	8-10	3-3-3-3	18			Wet, grey, very loose, fine Sand some silt.
6	10-12	3-3-3-4	12			Wet, grey, very loose, fine Sand some silt.
7	12-14	3-3-3-3	10			Wet, grey, very loose, fine Sand some silt.
8	14-16	5-4-5-6	14			Wet, grey, loose, fine Sand some silt.
9	16-18	4-4-4-5	16			Wet, grey, loose, fine Sand some silt.
10	18-20	4-4-6-6	22			Wet, grey, loose, fine Sand some silt.
						End of boring at 20'. Water table at 5'.

Type Of Boring:	Casing Size	Hollow Stem Auger Size	4 1/4"	Standard Penetration Test (ST) = 140lb hammer falling 30"
Proportion Percentages	Granular Soils (blows per ft.)		Cohesive Soils (blows per ft.)	
Trace 0 to 10%	0 to 4 Very Loose	30 to 50 Dense	0 to 2 Very Soft	8 to 15 Stiff
Some 10 to 40%	4 to 10 Loose	Over 50 Very Dense	2 to 4 Soft	15 to 30 Very Stiff
And 40 to 50%	10 to 30 Medium Dense		4 to 8 Medium Stiff	Over 30 Hard
Blows are per 6" taken with an 24" long X 2" OD X 1 3/8" LD.				

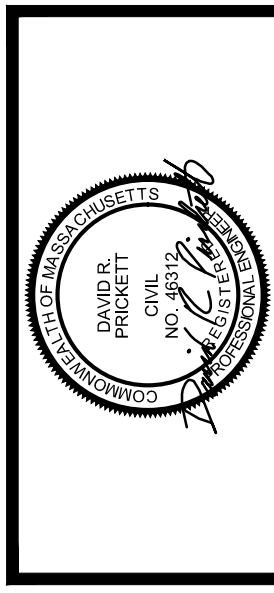
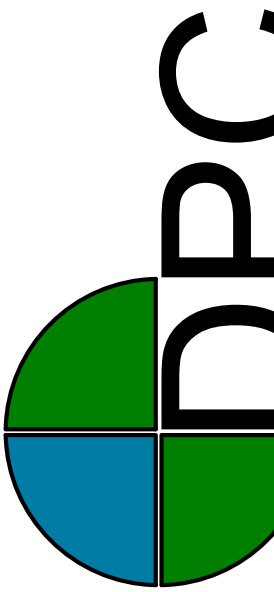
Geosearch Inc.

Client: DPC Engineering LLC		Date: 7/2/20		Page # 1 of 1	
Location: Front of 51 Magnolia Circle, Longmeadow, MA					
Boring No.	Ground Elev	Date Start	Date Complete	Drilling Foreman	Eng/Hydrologist
B-2		6/29/20	6/29/20	Shawn Preston	

D E P T H	Sample Data				Strata Change Depth	Visual Identification of Soil and/or Rock Strata
	NO.	Depth(ft.)	Blows 6" Penetration	Rec. Inches		
1	0-2	1-2-1-1	22			Dry, brown, very loose, fine Sand.
2	2-4	1-1-1-1	10			Dry, brown, very loose, fine Sand.
3	4-6	1-1-1-1	16			Dry, brown, very loose, fine Sand and gravel.
4	6-8	1-1-1-1	14	Water		Wet, brown, very loose, fine Sand some silt.
5	8-10	1-1-2-5	20			Wet, brown, very loose, fine Sand some silt, trace gravel.
6	10-12	4-4-7-9	22			Wet, brown, loose, fine Sand some silt.
						End of boring at 12'. Water at 7'.

Type Of Boring:	Casing Size	Hollow Stem Auger Size	4 1/4"	Standard Penetration Test (ST) = 140lb hammer falling 30"
Proportion Percentages	Granular Soils (blows per ft.)		Cohesive Soils (blows per ft.)	
Trace 0 to 10%	0 to 4 Very Loose	30 to 50 Dense	0 to 2 Very Soft	8 to 15 Stiff
Some 10 to 40%	4 to 10 Loose	Over 50 Very Dense	2 to 4 Soft	15 to 30 Very Stiff
And 40 to 50%	10 to 30 Medium Dense		4 to 8 Medium Stiff	Over 30 Hard
Blows are per 6" taken with an 24" long X 2" OD X 1 3/8" LD.				

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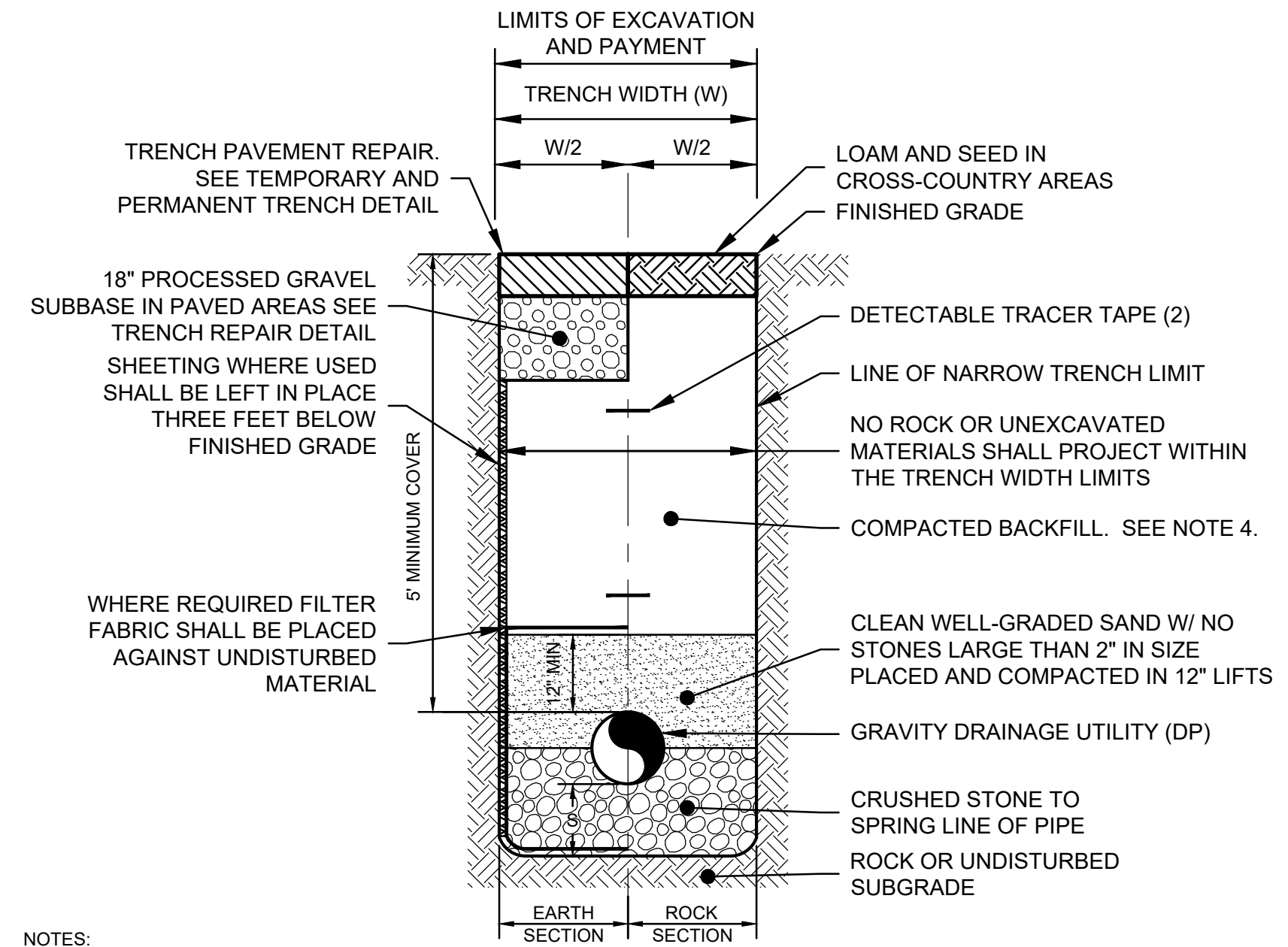
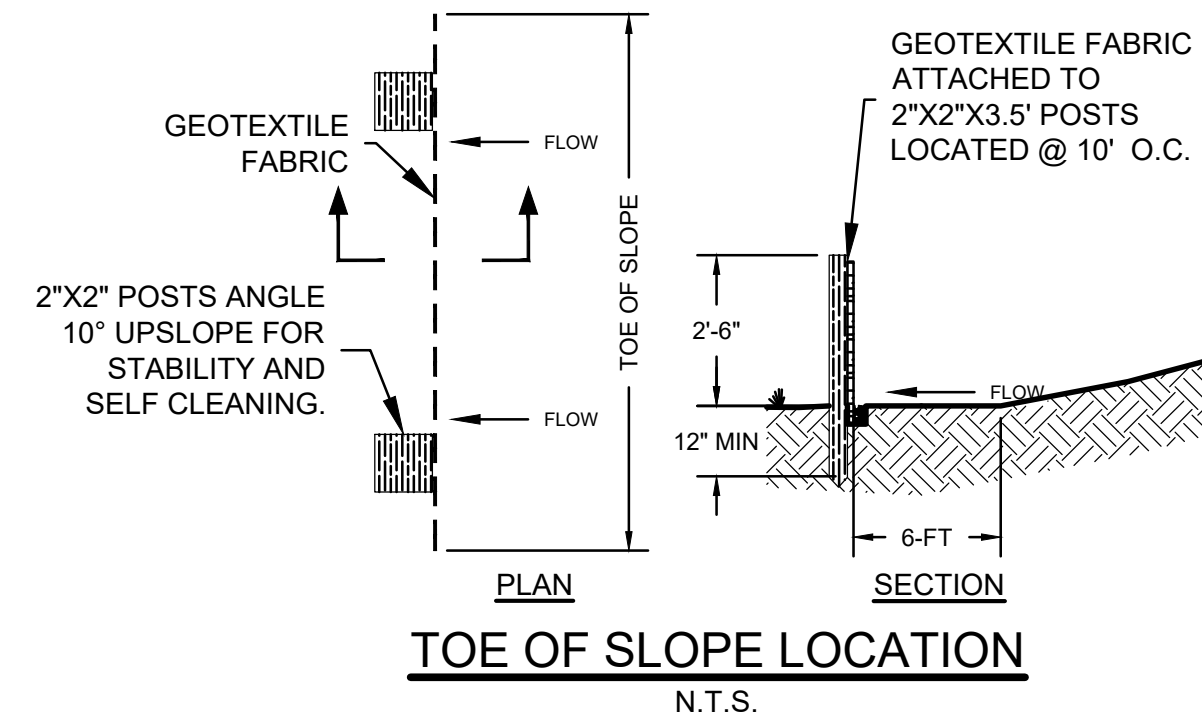
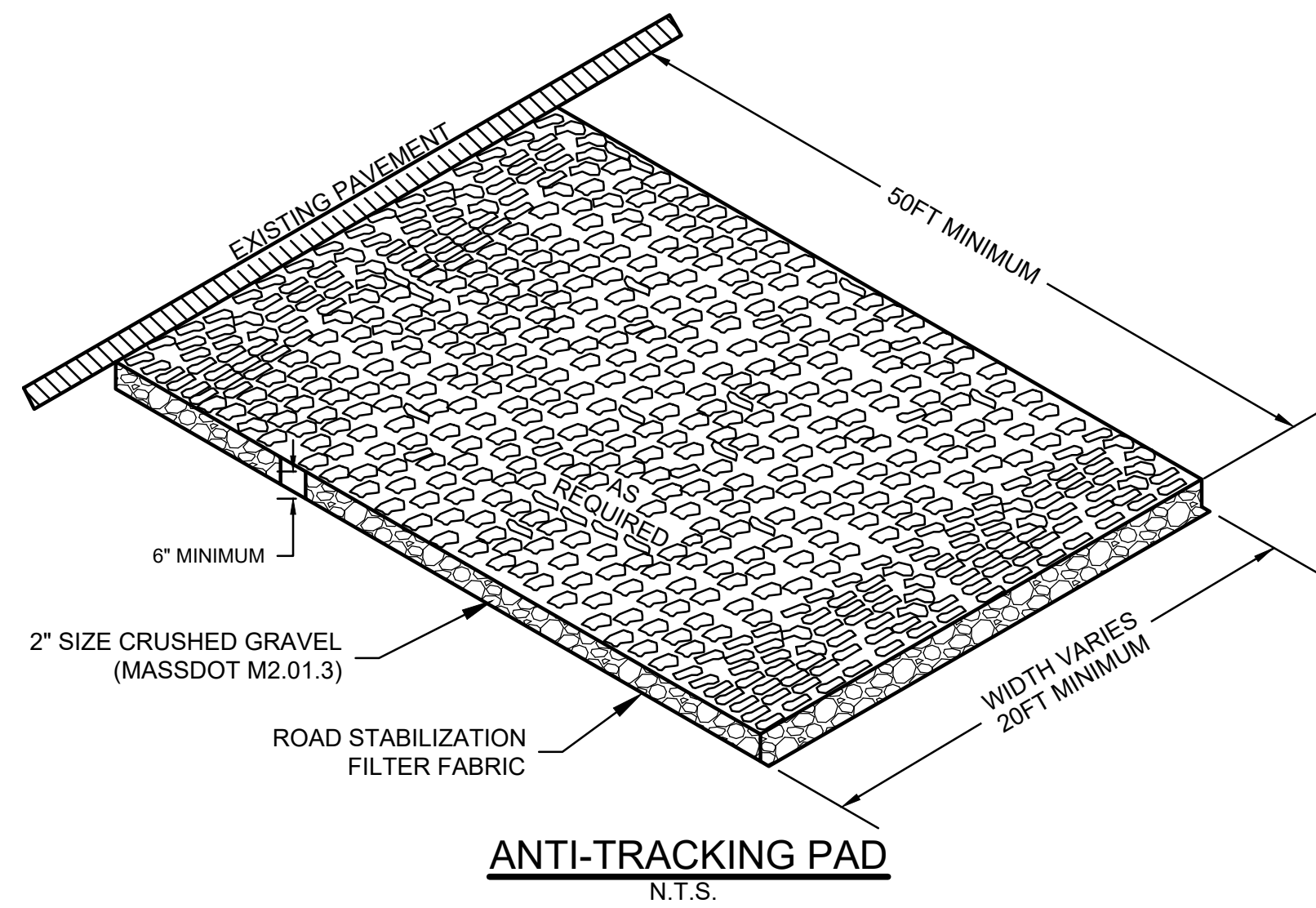


DATE:	8/6/2020
ISSUED FOR:	ISSUED FOR BIDDING
ISSUED FOR NO:	ISSUED FOR BIDDING
REV:	1
REV:	2
DESIGNED BY:	JMR
CHECKED BY:	DRP
APPROVED BY:	DRP
ISSUED FOR:	BIDDING

**SUBSURFACE EXPLORATION
BORING LOGS**

MAGNOLIA CIRCLE
 DRAINAGE IMPROVEMENTS
 PROJECT
 DEPARTMENT OF PUBLIC WORKS
 LONGMEADOW, MASSACHUSETTS

SCALE: AS NOTED
 SCALE SHEET SIZE: 22X34
 JOB NO.:
 DATE: AUGUST 2020
 SHEET: 7 OF 10

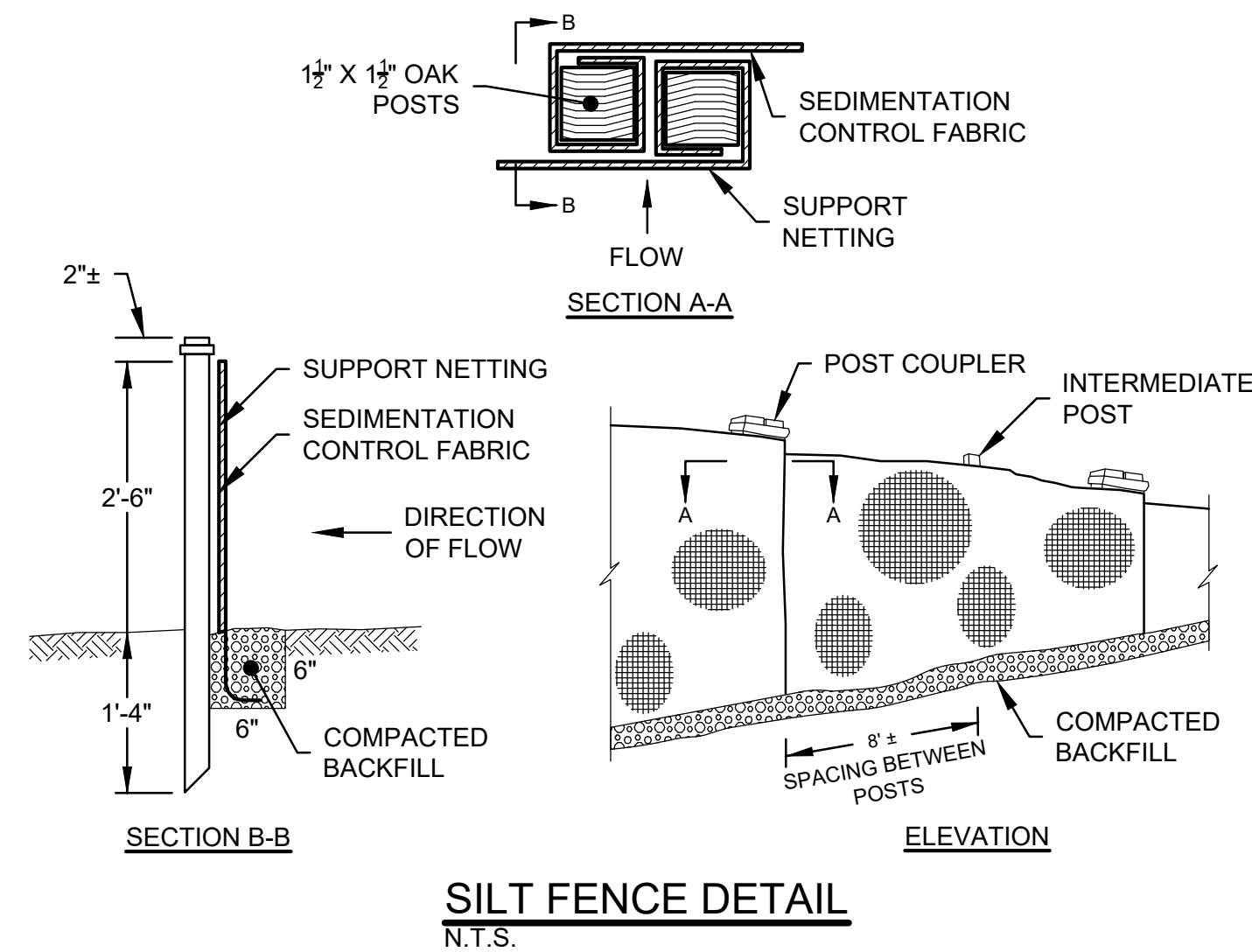


- NOTES:
1. SEE PLANS FOR SEWER AND OR DRAIN SIZE AND TYPE.
 2. SEE PLANS AND SPECIFICATION FOR RESTORATION LOCATIONS AND DETAILS.
 3. DRAIN TRENCHES MAY BE EXCAVATED WIDER THAN THE 'LIMIT OF EXCAVATION AND PAYMENT' ABOVE THE 'LINE OF NARROW TRENCH LIMIT.' ANY SUCH ADDITIONAL EXCAVATION SHALL BE AT THE CONTRACTOR'S EXPENSE AND SHALL NOT BE MEASURED FOR PAYMENT.
 4. BACKFILL W/ SUITABLE EXCAVATED MATERIAL OR SUBSTITUTE SUITABLE HAULED BACKFILL. REMOVE ALL STONES GREATER THAN 6" IN SIZE. USE PLATE COMPACTOR FOR COMPACTION IN LIFTS NO GREATER THAN 24". COMPACTED BACKFILL SHALL BE COMPACTED TO A MINIMUM 95% MAX DENSITY.
 5. SEE TABLE A FOR W, DP AND S DIMENSIONS.

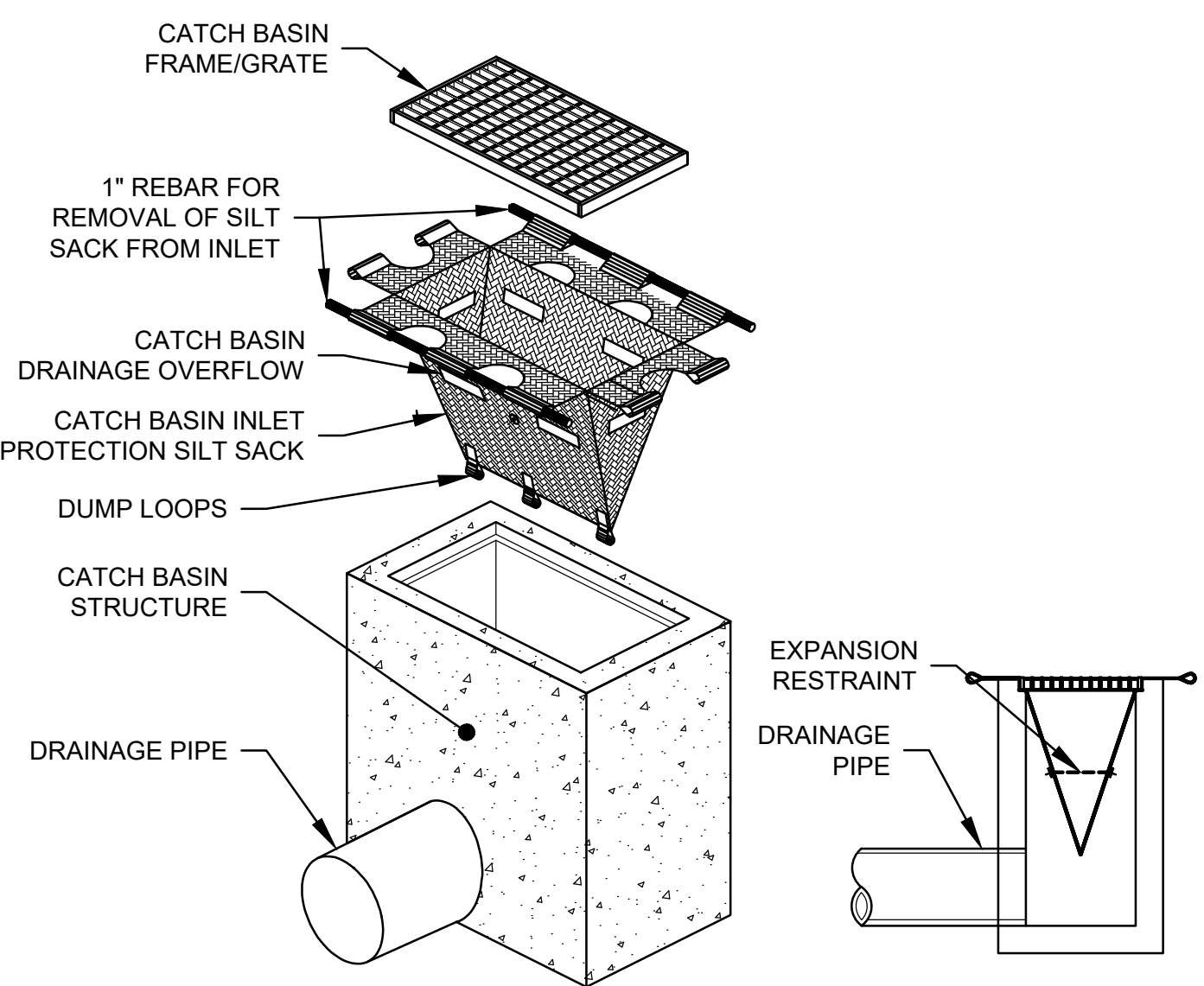
GRAVITY DRAIN TRENCH DETAIL
N.T.S.

DEPTH TO PIPE INVERT	DIAMETER OF PIPE (DP)	MAXIMUM TRENCH WIDTH BELOW LINE OF NARROW TRENCH LIMIT (SHEETED OR UNSHEETED) (W)	MINIMUM CLEARANCE (S)
0-12'	TO 18"	5'	6"
0-12'	21"-24"	5'	12"
OVER 12'	TO 18"	7'	12"
OVER 12'	21"-24"	7'	18"

TYPICAL UTILITY TRENCH INFORMATION
TABLE A

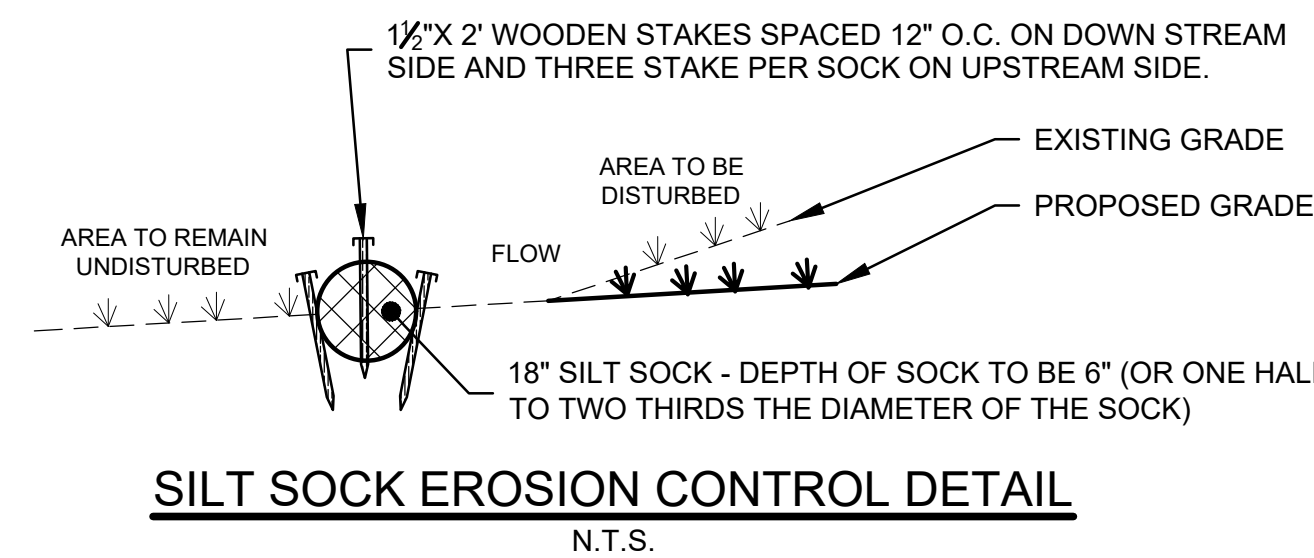


SILT FENCE DETAIL
N.T.S.

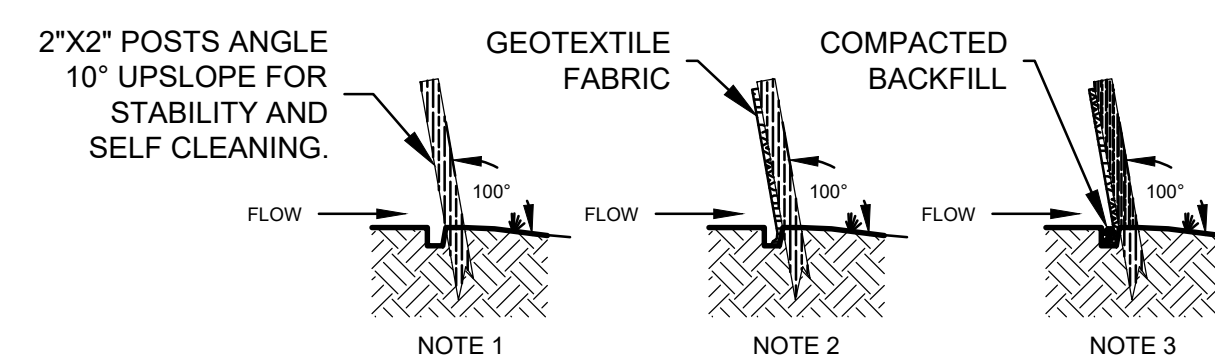


- NOTES:
1. PROVIDE HI-FLOW SILT SACK TYPE A FOR TYPE 'C-1' CATCH BASIN TOPS AND TYPE B WITH CURB DEFLECTOR FOR TYPE 'C' CATCH BASIN TOPS OR OTHER STRUCTURES WITH CURB INLET.

CATCH BASIN INLET PROTECTION
N.T.S.

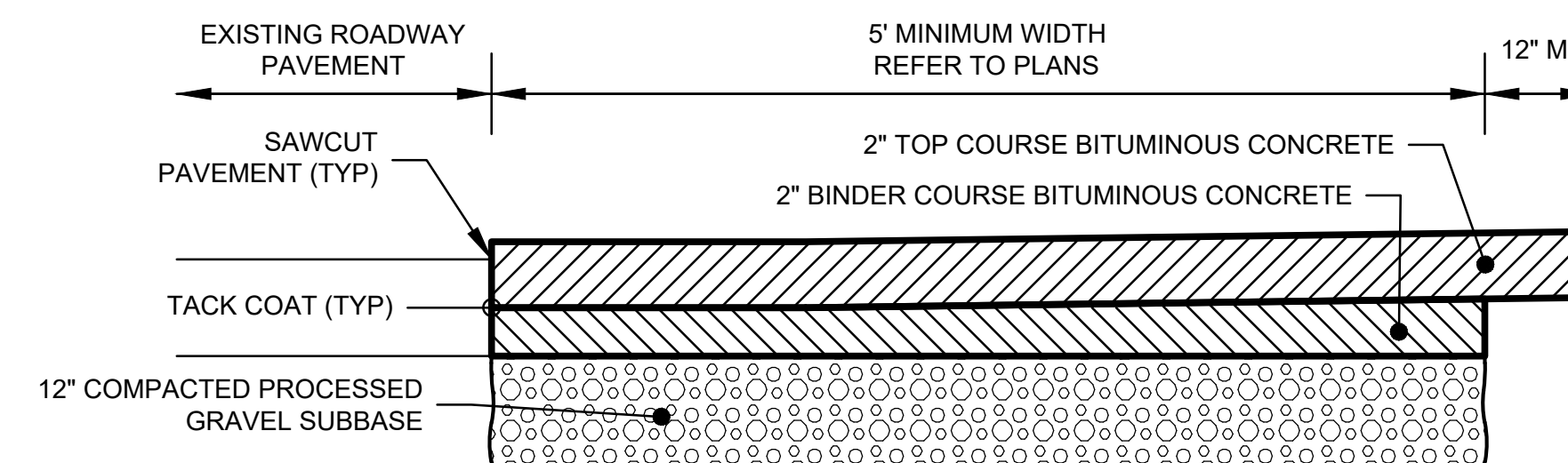


SILT SOCK EROSION CONTROL DETAIL
N.T.S.



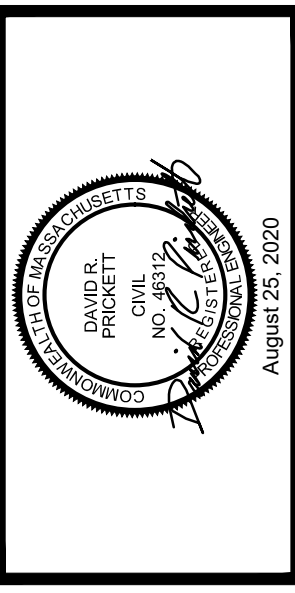
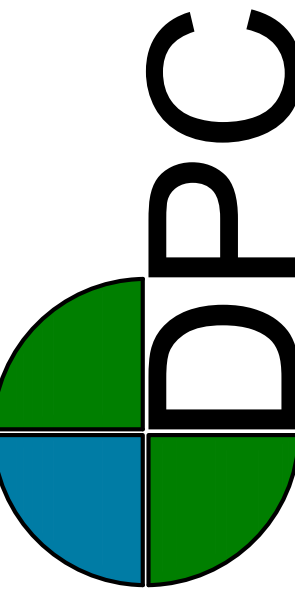
- NOTES:
1. SET POSTS AND EXCAVATE A 6"x6" TRENCH. SET POSTS DOWNSLOPE.
 2. ATTACH GEOTEXTILE TO THE POSTS AND EXTEND IT TO THE TRENCH. MINIMUM LENGTH OF GEOTEXTILE IS 15'. MINIMUM SPACING OF POSTS IS 10'. JOINTS ONLY SUPPORT POSTS WITH A MINIMUM 6" OVERLAP.
 3. BACKFILL THE TRENCH AND COMPACT THE EXCAVATED SOIL.

SEDIMENTATION CONTROL SYSTEM INSTALLATION
N.T.S.



- NOTES:
1. CUT 12" MINIMUM KEYWAY AT EXISTING DRIVEWAY.
 2. MATCH WIDTH AND GRADE AT EXISTING DRIVEWAY.
 3. APPLY TACK COAT AND JOINT SEALANT AT ALL LOCATIONS BETWEEN EXISTING AND PROPOSED PAVEMENT.

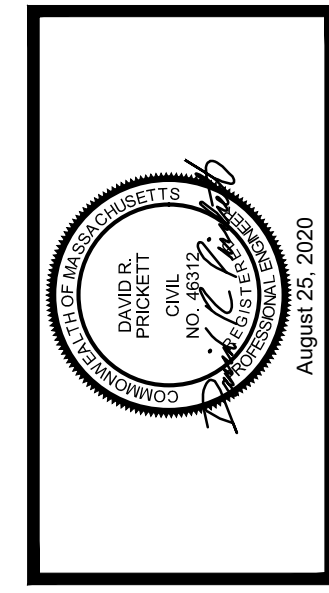
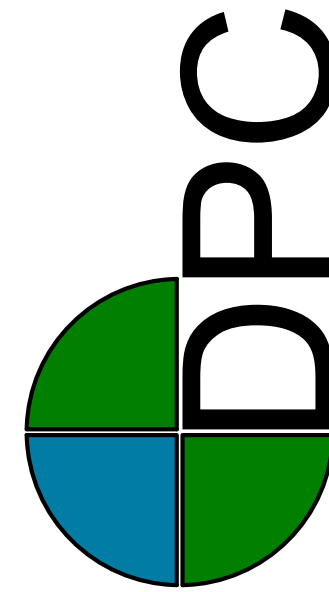
DRIVEWAY APRON PAVEMENT DETAIL
N.T.S.



DATE:	8/6/2020
DESCRIPTION:	ISSUED FOR NOI
JMR REV:	JMR 1
DRP REV:	DRP 2
ISSUED FOR:	BIDDING

DETAILS

**MAGNOLIA CIRCLE
DRAINAGE IMPROVEMENTS
PROJECT**
DEPARTMENT OF PUBLIC WORKS
LONGMEADOW, MASSACHUSETTS

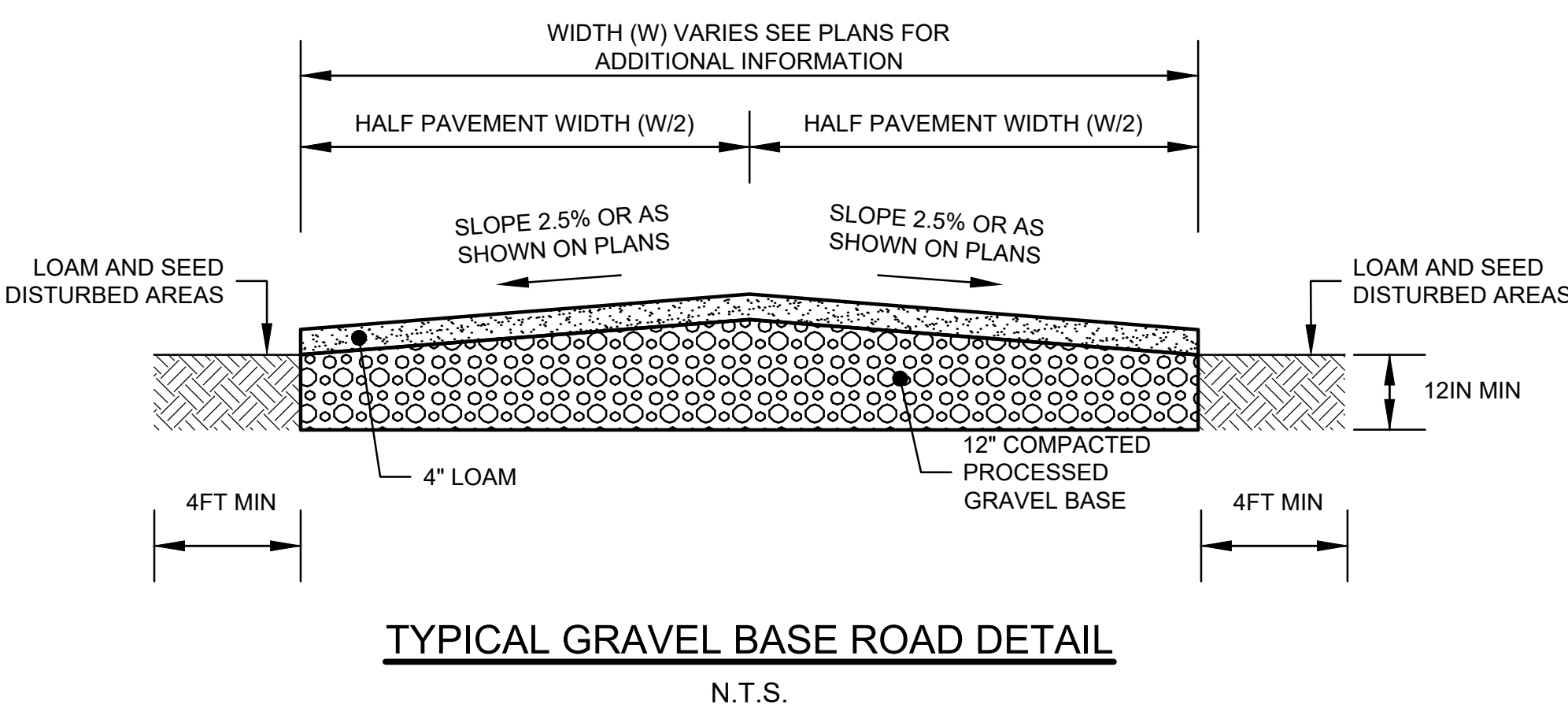
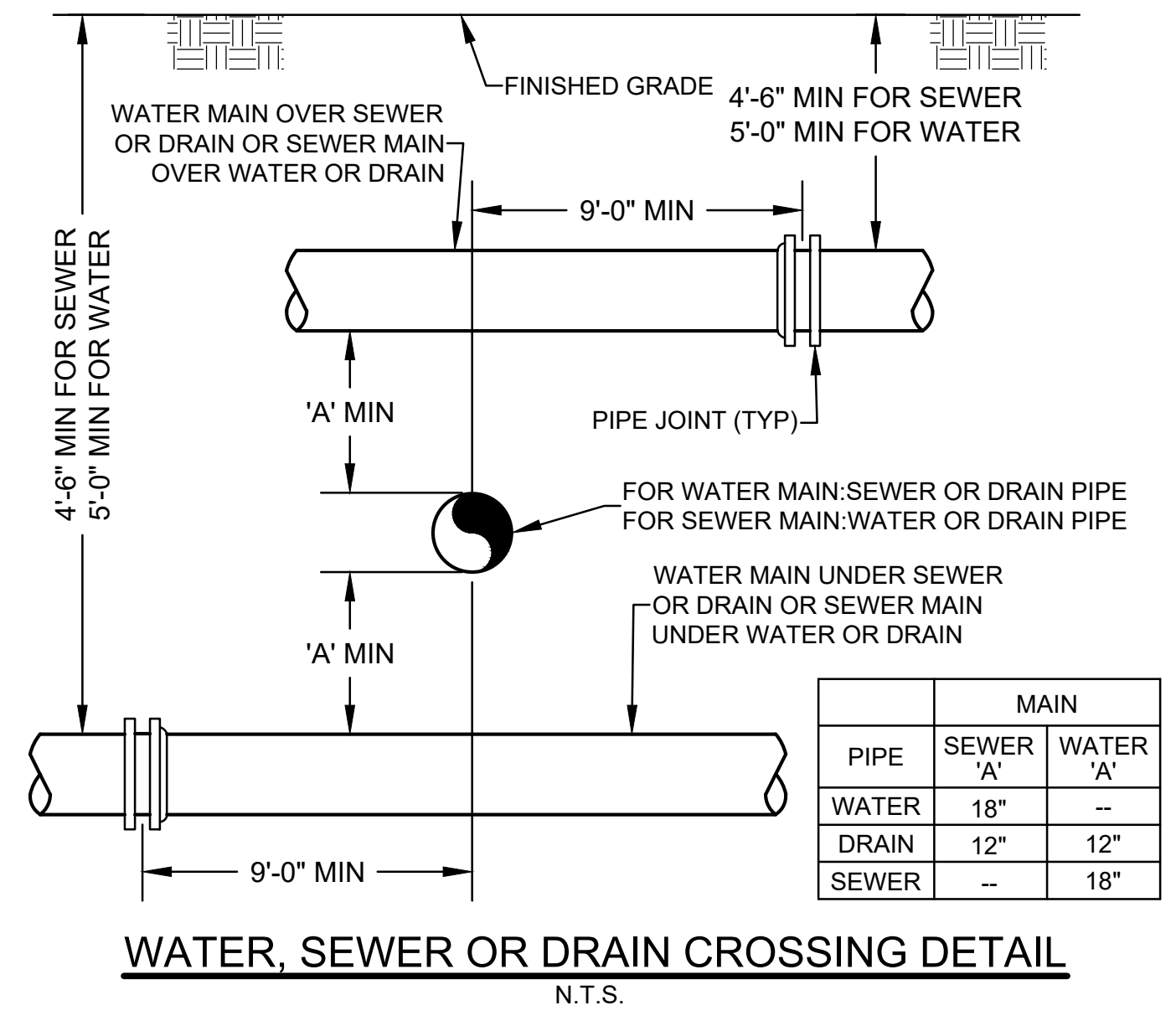
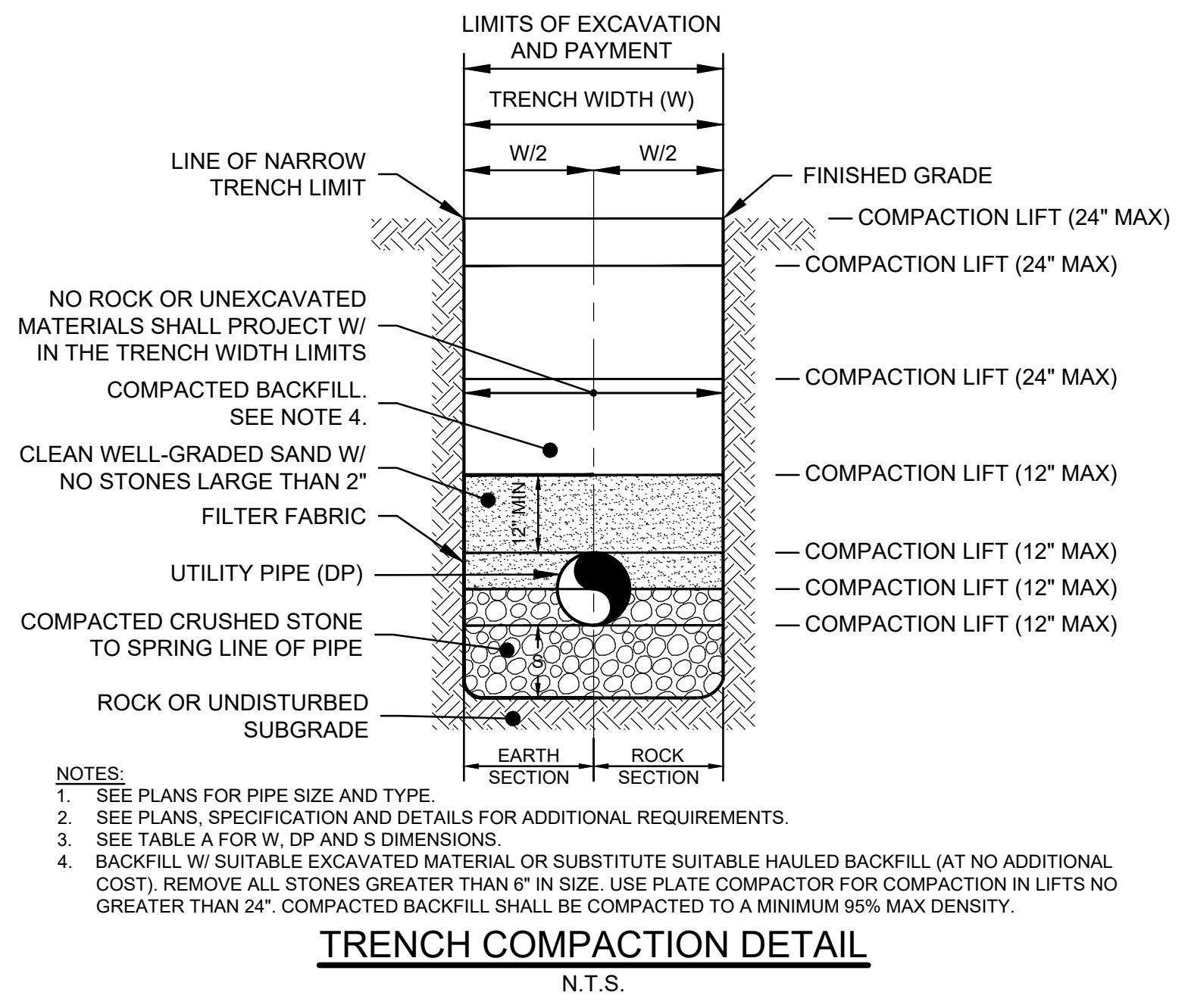
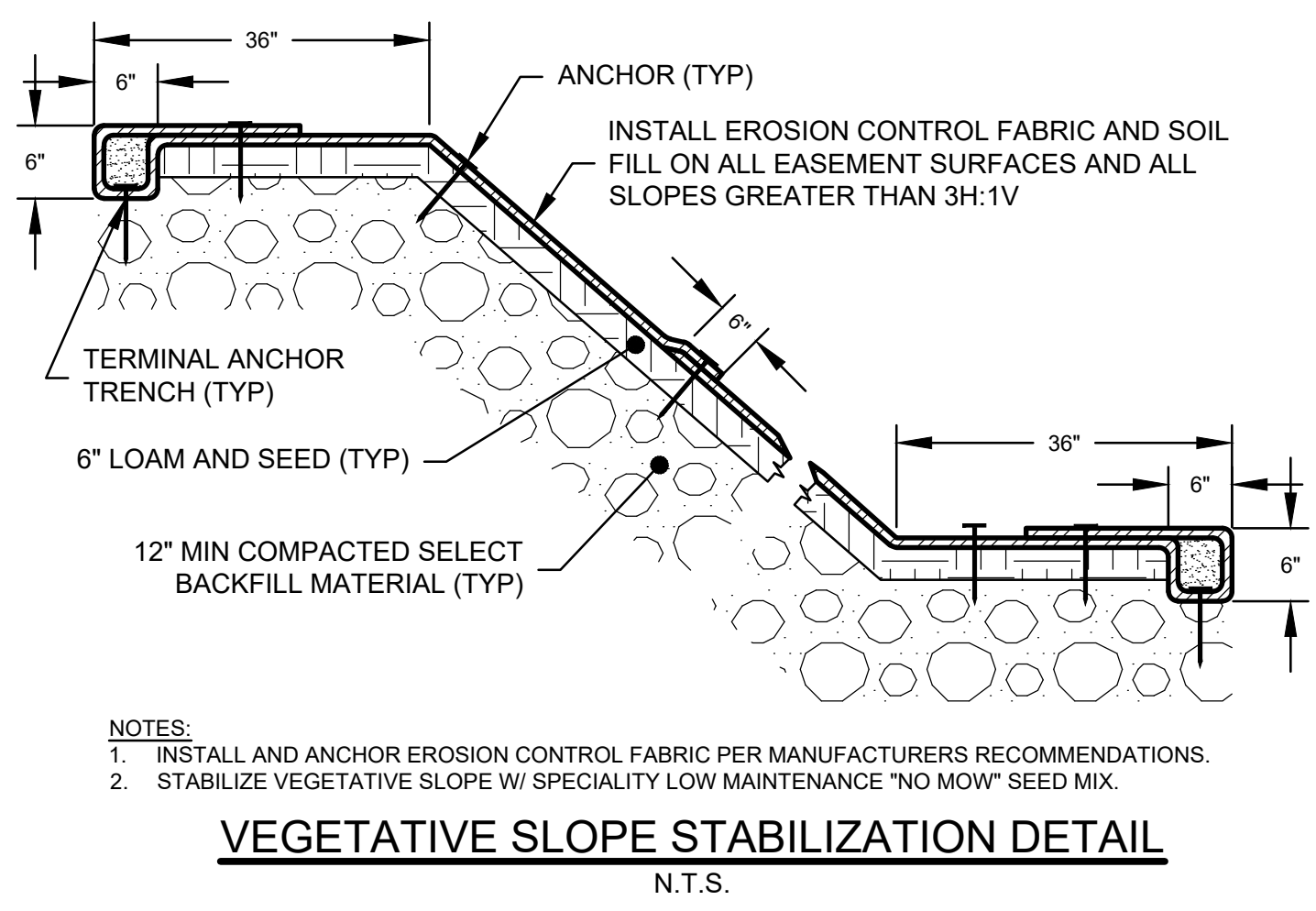
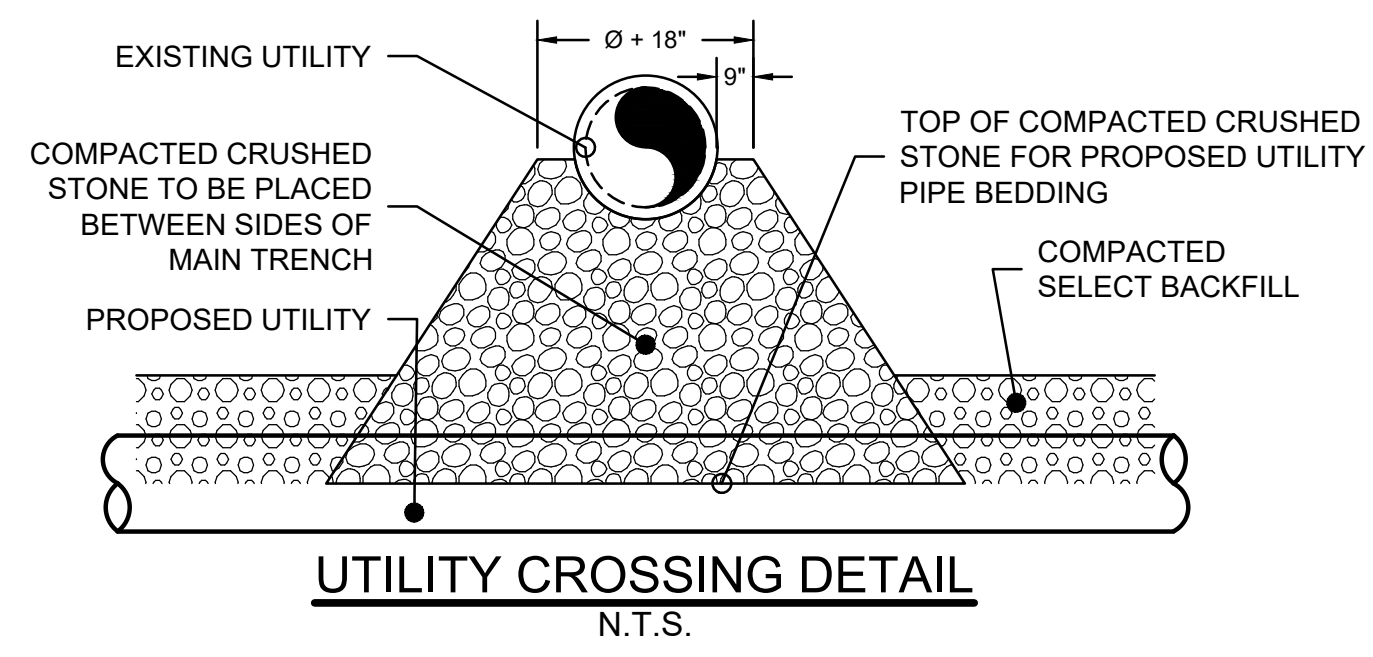
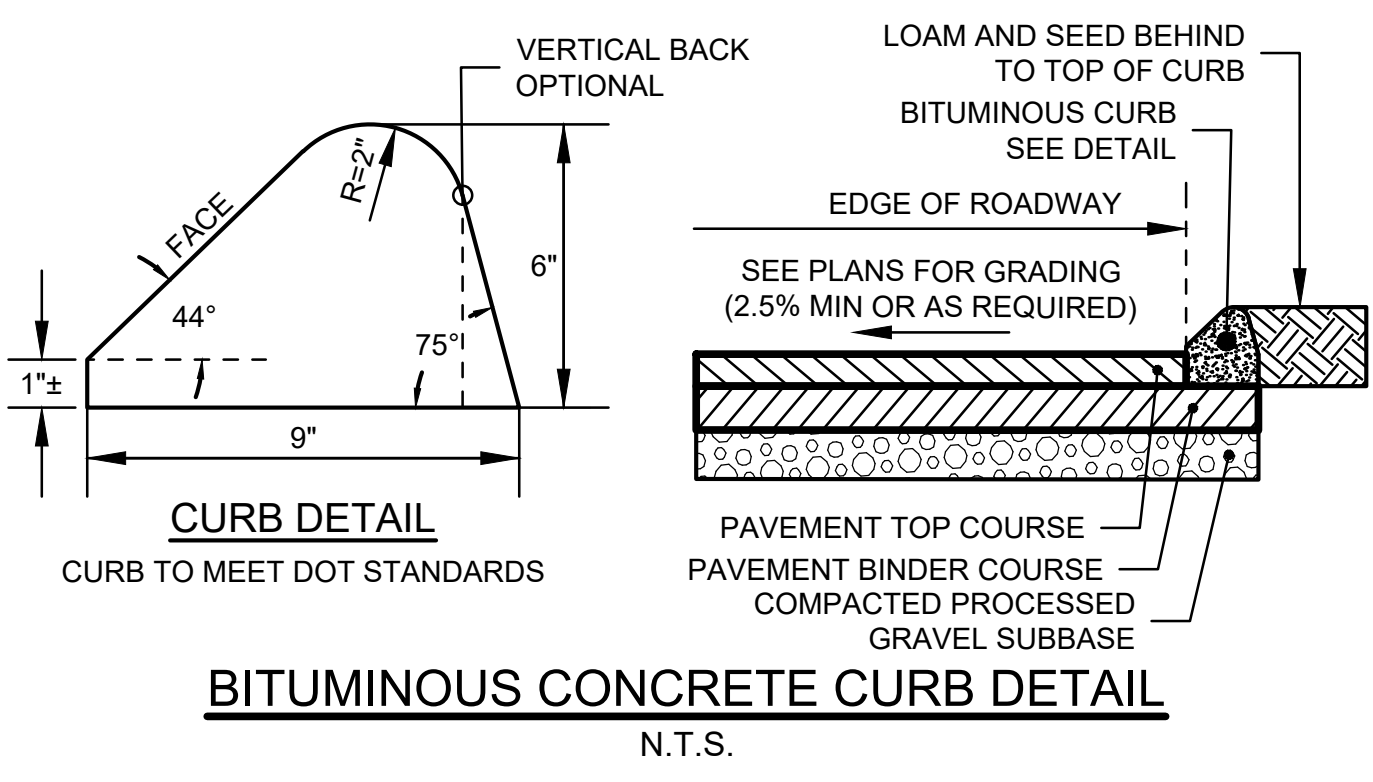
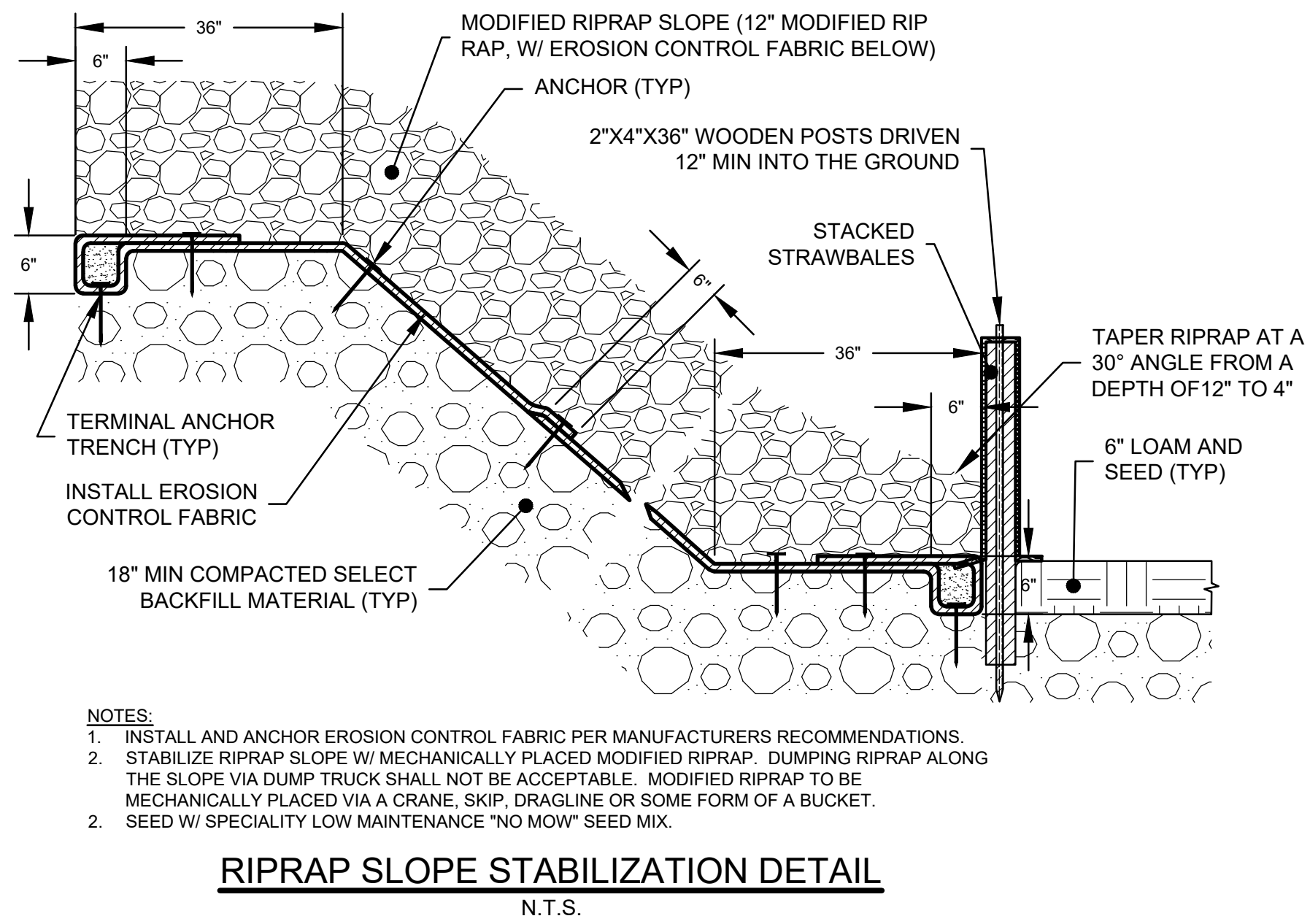
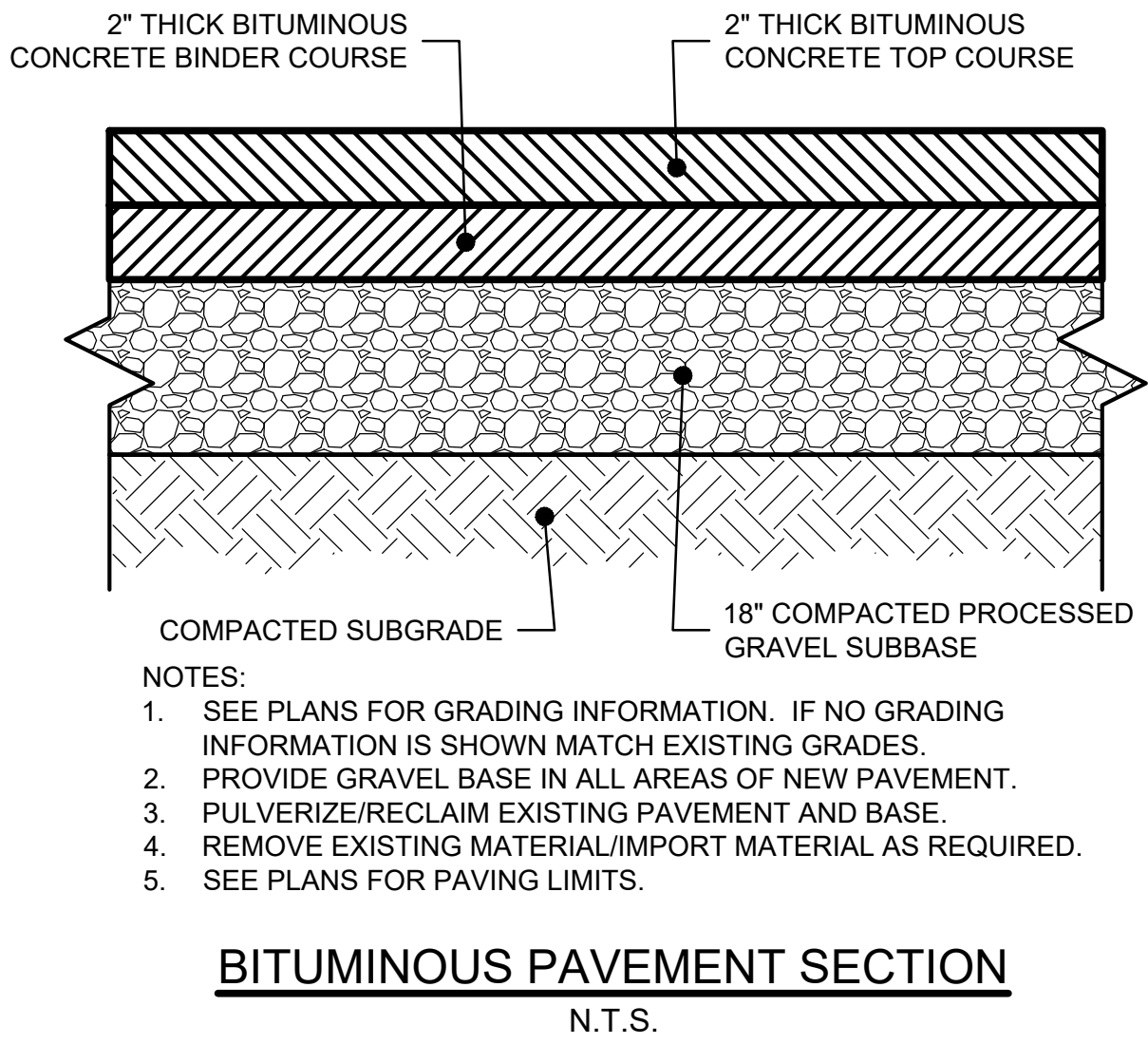
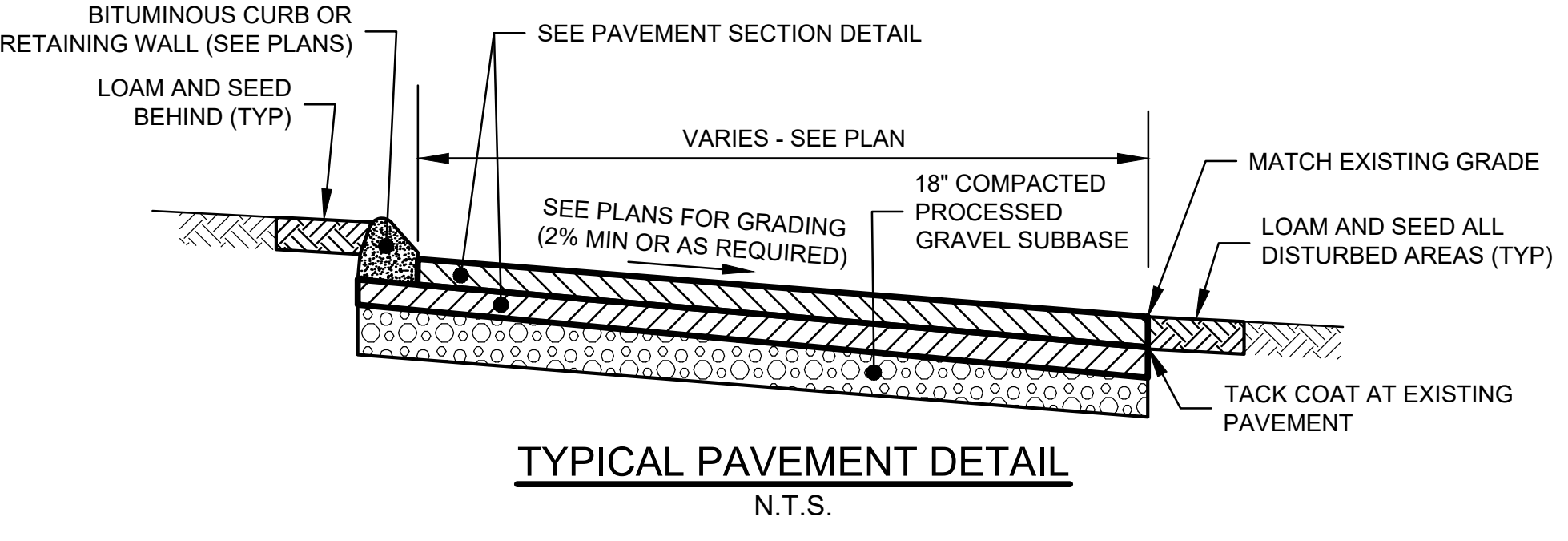


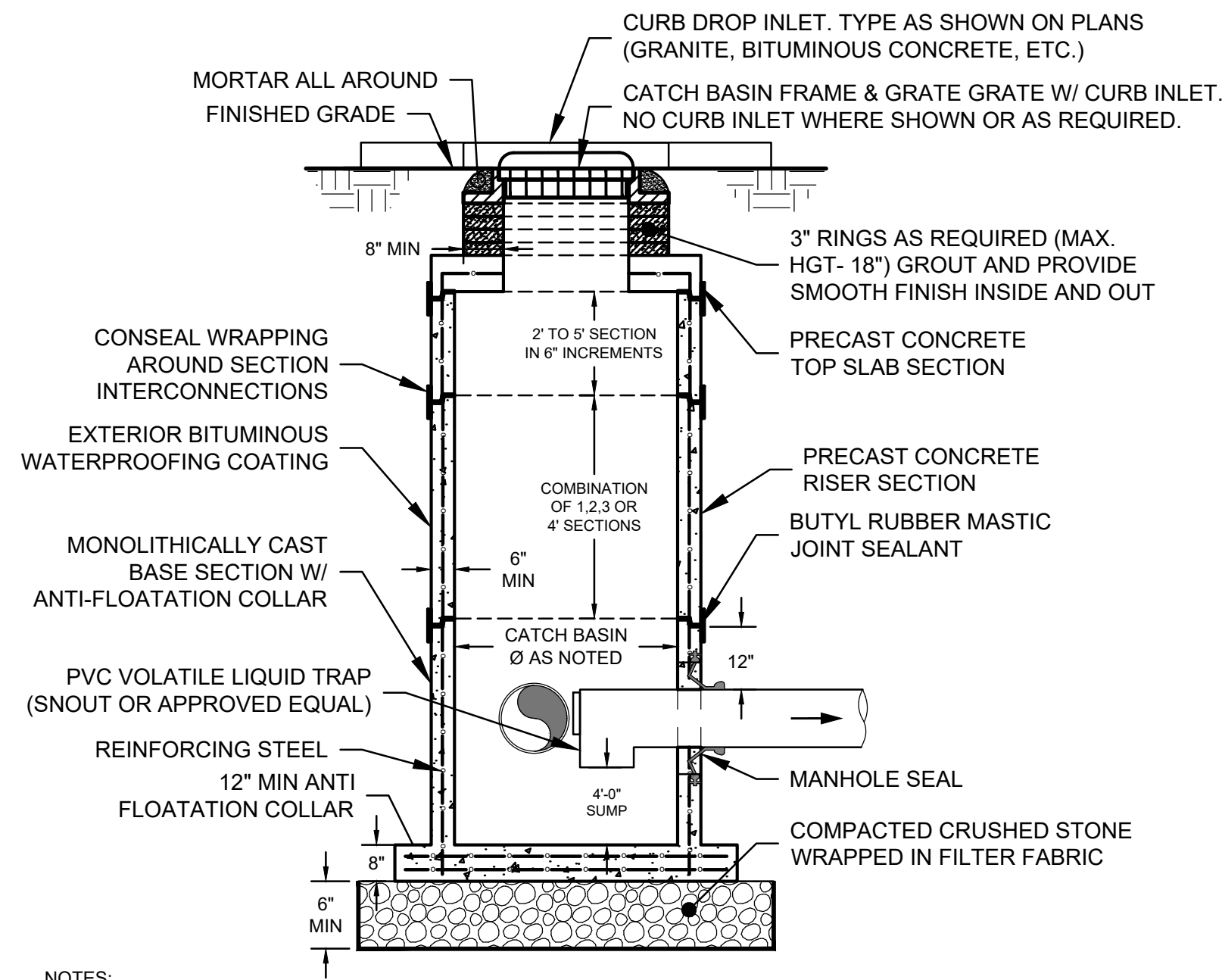
DATE:	8/6/2020
DESCRIPTION:	ISSUED FOR BIDDING
ISSUED FOR NO1:	1
ISSUED FOR BIDDING:	2
JMR REV:	JMR 1 DRP 2
DRAWN BY:	JMR
CHECKED BY:	DRP
APPROVED BY:	
ISSUED FOR:	BIDDING

DETAILS

MAGNOLIA CIRCLE
 DRAINAGE IMPROVEMENTS
 PROJECT
 DEPARTMENT OF PUBLIC WORKS
 LONGMEADOW, MASSACHUSETTS

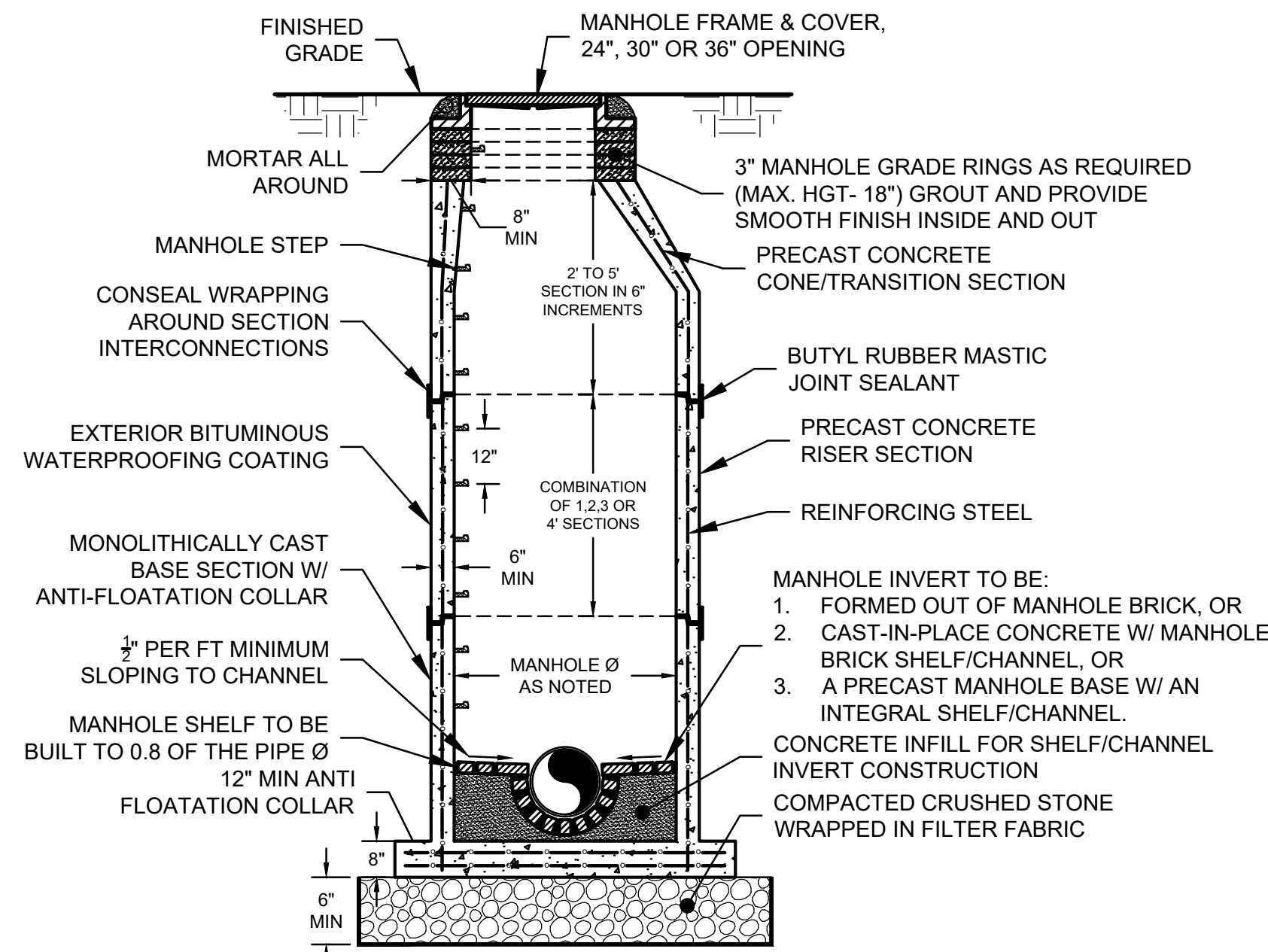
SCALE: AS NOTED
 SCALE SHEET SIZE: 22X34
 JOB NO.:
 DATE: AUGUST 2020
 SHEET: 9 OF 10





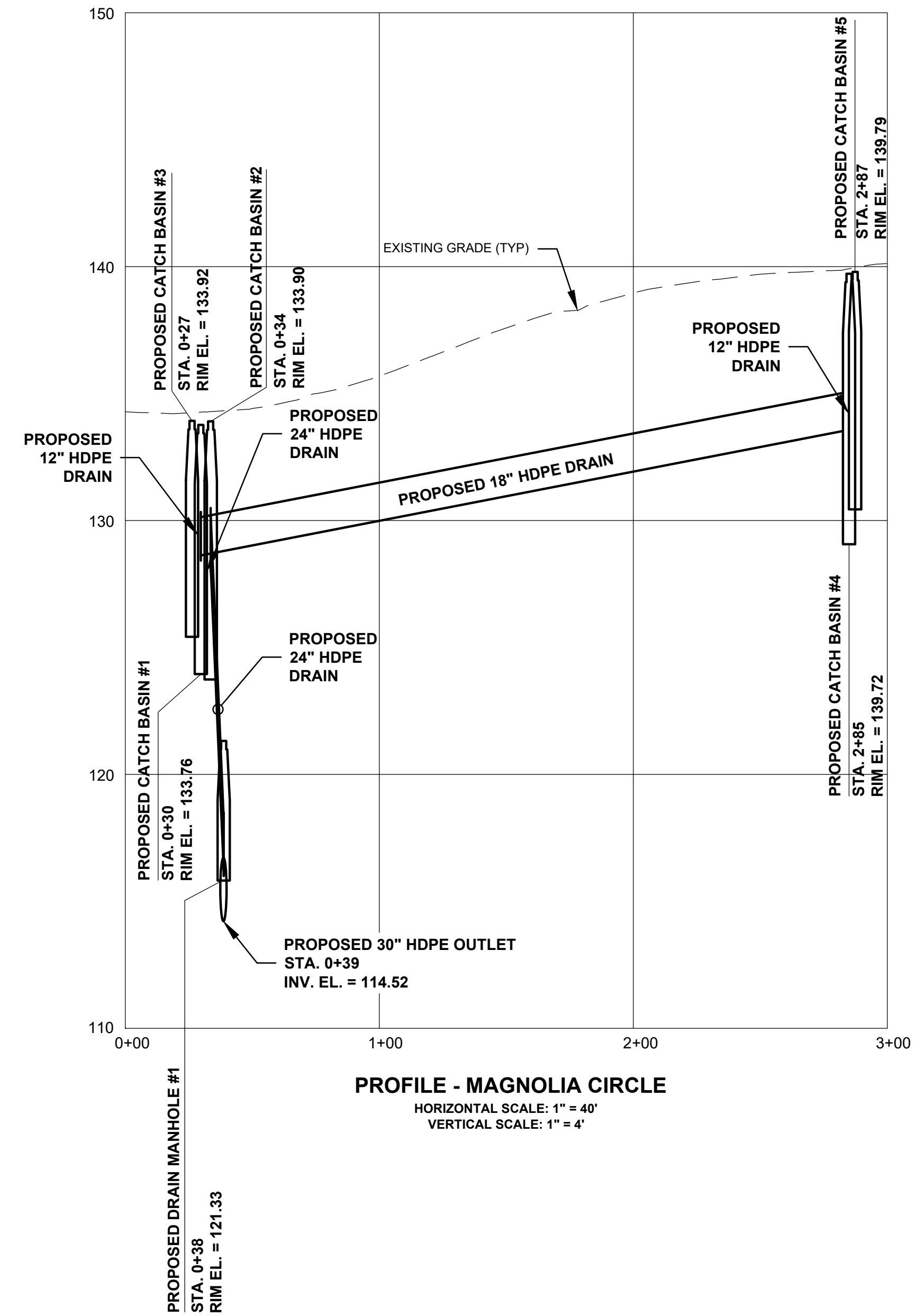
- NOTES:**
1. MINIMUM CATCH BASIN DIAMETER IS 4FT. ADJUST DIAMETER AS NOTED OR REQUIRED FOR PIPE SIZES.
 2. CATCH BASIN SHALL CONFORM TO LATEST ASTM DESIGNATION C478. CONCRETE COMPRESSIVE STRENGTH-5,000 PSI MINIMUM AT 28 DAYS.
 3. ALL PIPE CONNECTIONS TO WALLS SHALL BE CAST-IN FLEXIBLE WATERTIGHT CONNECTORS MANUFACTURED BY PRESS-SEAL GASKET CORPORATION OR APPROVED EQUAL.
 4. BRICK (ASTM C32) SHALL BE GRADE MS OR MM.
 5. ADJUST CATCH BASIN FRAME AND GRATE TO REQUIRED GRADE WITH A MIN OF ONE COURSE AND A MAX OF FIVE COURSES OF REINFORCED CONC. GRADING RINGS.
 6. REINFORCING STEEL WELDED WIRE FABRIC CONFORMS TO LATEST ASTM SPECIFICATION A185.
 7. REINFORCING STEEL DEFORMED BARS CONFORM TO LATEST ASTM SPECIFICATION A615.
 8. PROVIDE AND INSTALL CATCH BASIN W/ CURBED INLET IN AREAS W/ CURBING.

**PRECAST CATCH BASIN DETAIL
PAVED/CURBED GRASSED AREAS**
N.T.S.

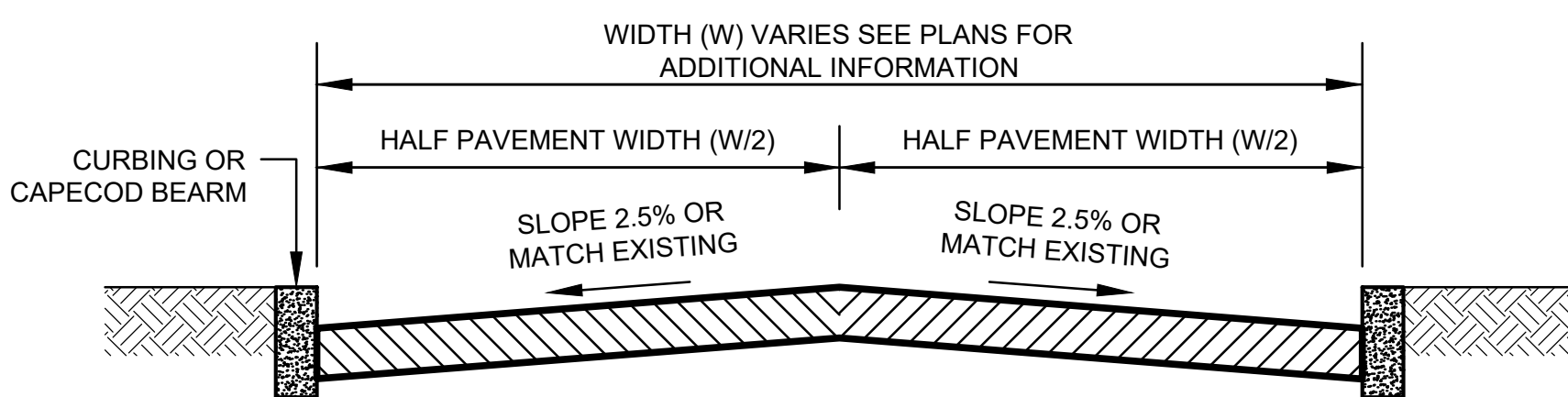


- NOTES:**
1. MINIMUM MANHOLE DIAMETER IS 4FT. DETAIL APPLIES TO 4' AND 5'0\"/>

PRECAST DRAIN MANHOLE DETAIL
N.T.S.

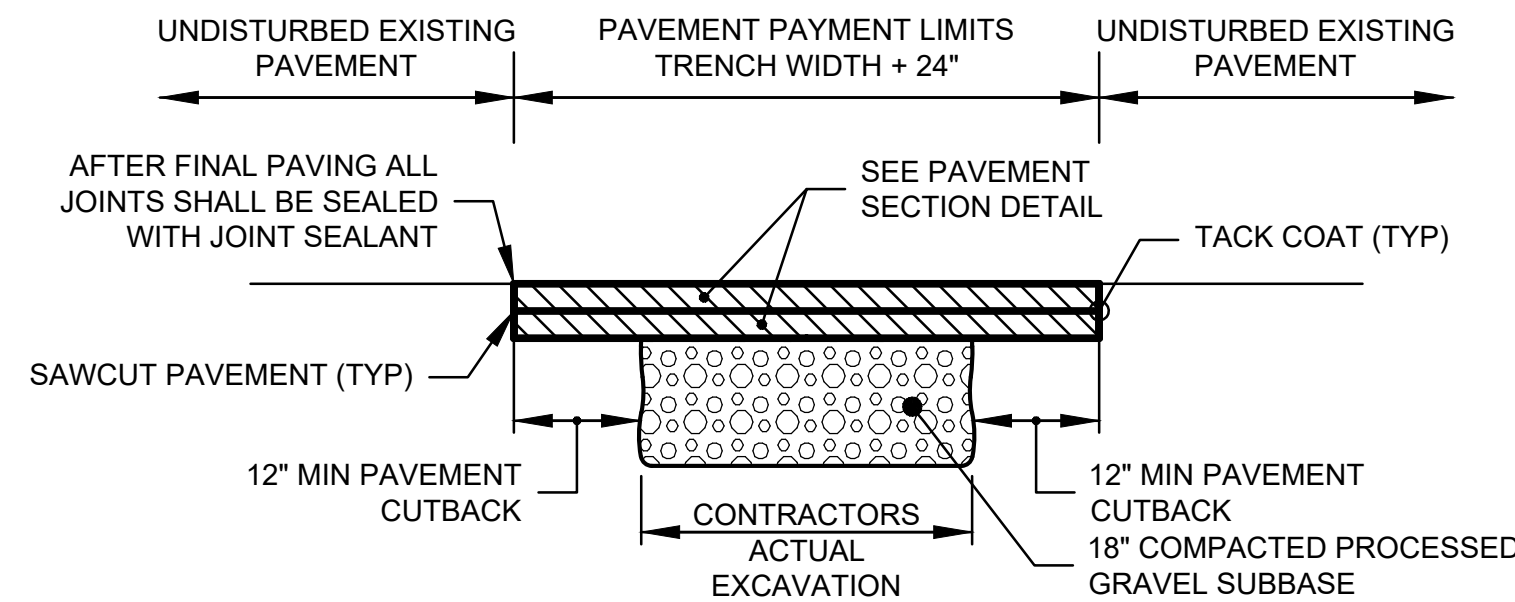


PROFILE - MAGNOLIA CIRCLE
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 4'

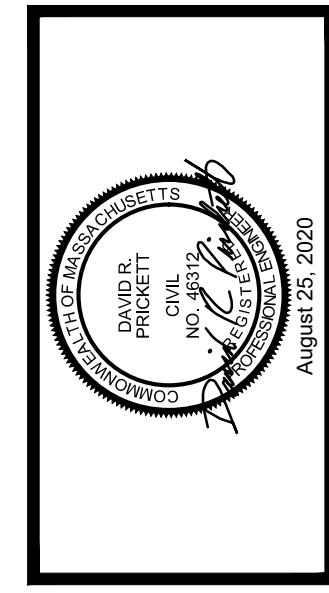


- NOTES:**
- UPON COMPLETION OF PERMANENT TRENCH PAVING WORK, MILL EXISTING PAVEMENT AS SHOWN TO A 2" TYP (4" MAX.) DEPTH AND OVERLAY WITH 2" MIN COMPACTED THICKNESS OF CLASS II BITUMINOUS CONCRETE.

TYPICAL MILLING AND OVERLAY DETAIL
N.T.S.



PERMANENT TRENCH PAVEMENT REPLACEMENT DETAIL
N.T.S.



DATE:	8/6/2020
DESCRIPTION:	ISSUED FOR NOI
JMR REV:	1
JMR:	2
ISSUED FOR BIDDING:	8/25/2020
ISSUED BY:	DRP
CHECKED BY:	DRP
APPROVED BY:	DRP
ISSUED FOR:	BIDDING

DETAILS

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LONGMEADOW, MASSACHUSETTS

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