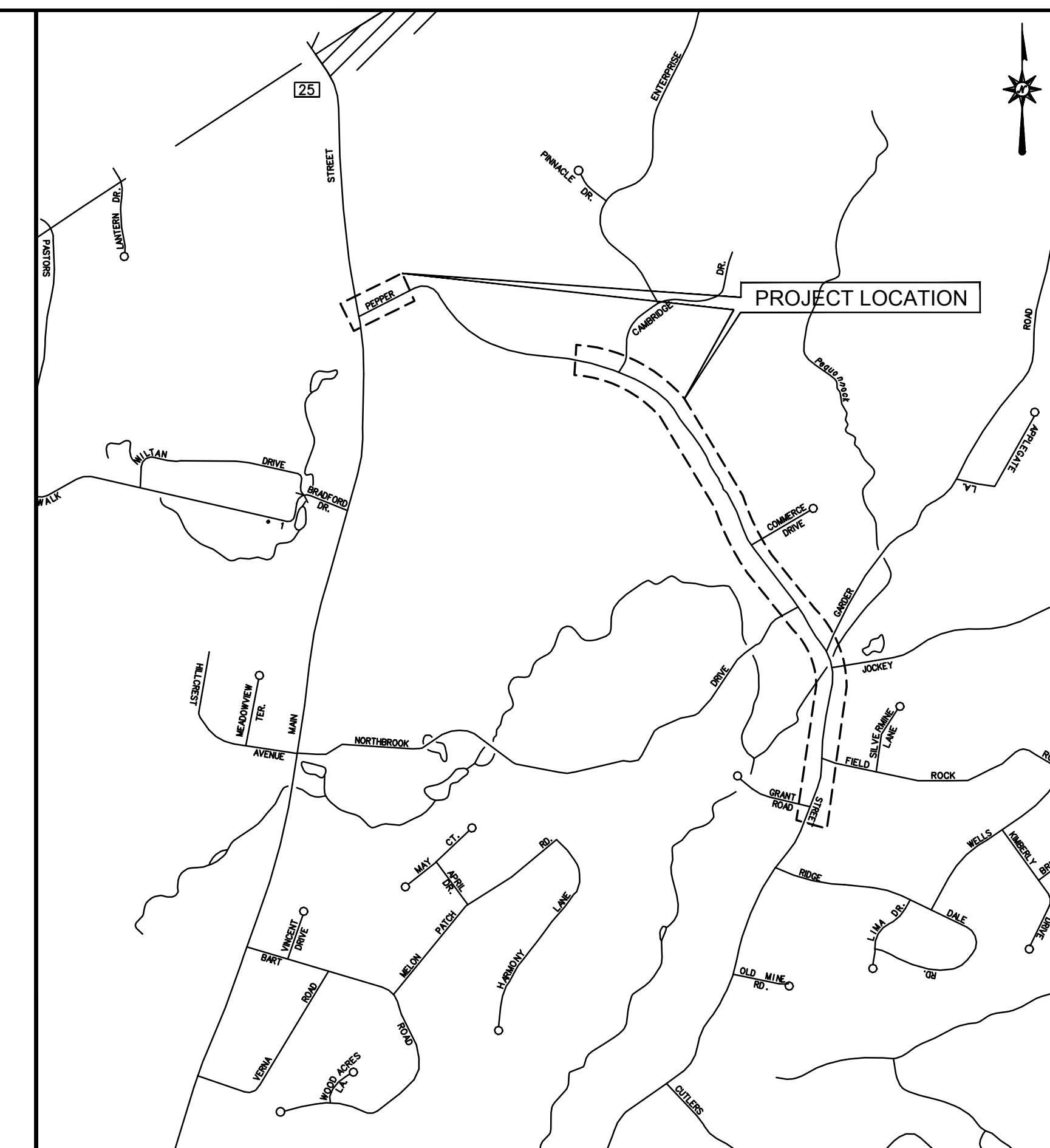


LOCATION MAP
N.T.S.

CONSTRUCTION PLANS FOR PEPPER STREET, ROUTE 25 AND PEPPER STREET INTERSECTION IMPROVEMENTS AND MULTI-USE TRAIL TOWN OF MONROE

STATE PROJECT: 84-109
FEDERAL AID PROJECT : FAP 1084(106)
FINAL DESIGN SUBMISSION



VICINITY MAP
SCALE: 1"=1,000'

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STANDARD STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION DETAILS

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UTILITY RELOCATION PLANS (FOR INFORMATION ONLY)
PERMIT PLANS (FOR INFORMATION ONLY)

PREPARED FOR:
TOWN OF MONROE
7 FAN HILL ROAD
MONROE, CONNECTICUT 06468

FIRST SELECTMAN: KENNETH M. KELLOGG

PREPARED BY:



ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING

355 RESEARCH PARKWAY
MERIDEN, CONNECTICUT 06450
(203) 630-1406
(203) 630-2615 Fax

SUBCONSULTANTS: _____

NOBIS ENGINEERING, INC.

2004 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION FORM 816, INCLUDING ALL SUPPLEMENTS THERETO DATED JANUARY 2016.

ALL HORIZONTAL GEOMETRY ON THIS PROJECT IS BASED ON A FIELD SURVEY PERFORMED BY BL COMPANIES DATED: MAY 2014 ON HORIZONTAL DATUM NAD83.

ALL ELEVATIONS ON THIS PROJECT BASED ON NAVD88.

DESIGN STANDARDS:

TOWN OF MONROE DESIGN STANDARDS

CONNECTICUT DEPARTMENT OF TRANSPORTATION HIGHWAY DESIGN MANUAL, 2003 EDITION AND DRAINAGE MANUAL, 2000 EDITION.

A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS 2011 EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO).

CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL, 2003 EDITION.

TOWN OF MONROE, CONNECTICUT

APPROVED BY:

SCOTT H. SCHATZLEIN, P.E.
LAND USE DIRECTOR / TOWN ENGINEER

DATE

355 RESEARCH PARKWAY
MERIDEN, CONNECTICUT 06450

DATES

ISSUE DATE: JUNE 26, 2019
REVISION:

GENERAL NOTES

1. REFER TO TRAFFIC PLANS FOR SIGNAL DETAILS AT INTERSECTION OF ROUTE 25 AND PEPPER STREET.
2. REFER TO STRUCTURAL PLANS FOR DETAILS OF BRIDGE NO. 84005

ROADWAY NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF EXISTING TREES TO REMAIN AND AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.
2. THE COST OF REMOVAL OF TREES SHALL BE PAID FOR UNDER CONTRACT UNIT PRICE FOR "CLEARING AND GRUBBING"
3. ALL DISTURBANCES SHALL BE TREATED WITH 4" TOP SOIL AND TURF ESTABLISHMENT.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
5. STONES FROM EXISTING STONE WALLS SHALL BE UTILIZED TO RECONSTRUCT THE WALLS AT THEIR NEW LOCATIONS. THE RECONSTRUCTED STONE WALLS SHALL MATCH THE EXISTING WALLS AS CLOSELY AS POSSIBLE AND APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL RETAIN ALL STONES FROM THE EXISTING WALLS FOR REUSE. ADDITIONAL STONES THAT MAY BE NECESSARY SHALL BE BLENDED WITH THE EXISTING STONES IN ORDER TO REPRODUCE THE APPEARANCE OF THE EXISTING WALLS.
6. ALL DRIVEWAYS SHALL BE SAW CUT AT THE LIMITS OF WORK SO AS TO ESTABLISH A CLEAN JOINT.
7. THE COST OF CONCRETE ENDWALL SHALL BE PAID FOR UNDER THE ITEM "CONCRETE FOR STEPS AND COPINGS".
8. THE COST OF REMOVAL OF EXISTING STONE WALL REMAINS SHALL BE PAID FOR UNDER THE ITEM "CLEARING AND GRUBBING".
9. THE COST OF REMOVAL OF EXISTING CATCH BASINS SHALL BE PAID FOR UNDER THE ITEM "ROCK IN TRENCH EXCAVATION 0-10".
10. THE CONNECTION OF EXISTING ROOF DRAINS/YARD DRAINS TO PROPOSED STORM STRUCTURES SHALL BE PAID UNDER THE ITEM "6" UNDERDRAIN"

SIGNING NOTES

1. ALL EXISTING SIGNS WITHIN LIMIT OF CONSTRUCTION TO BE REMOVED UNLESS OTHERWISE NOTED ON PLANS OR DIRECTED BY THE ENGINEER.
2. ALL EXISTING SIGNS OUTSIDE THE LIMIT OF CONSTRUCTION TO REMAIN UNLESS OTHERWISE NOTED ON PLANS OR DIRECTED BY THE ENGINEER.
3. EXACT SIGN LOCATIONS TO BE DETERMINED IN THE FIELD AND APPROVED BY THE ENGINEER.
4. WHEN A SIGN IS TO BE REPLACED, THE EXISTING SIGN SHOULD NOT BE REMOVED UNTIL THE NEW REPLACEMENT SIGN IS INSTALLED.
5. SIGNS SHALL NOT BE PLACED LESS THAN 10 FEET FROM UTILITY POLES.
6. TOWN OF MONROE TO MAINTAIN ALL SIGNS WITHIN ESTABLISHED RIGHT OF WAY UPON COMPLETION OF WORK.

PAVEMENT MARKING NOTES

1. ALL FINAL PAVEMENT MARKINGS TO BE EPOXY RESIN.
2. INSTALL ALL PAVEMENT MARKINGS WITHIN THE LIMITS OF CONSTRUCTION UNLESS OTHERWISE SHOWN OR AS DIRECTED BY THE ENGINEER. MATCH TO EXISTING PAVEMENT MARKINGS AT THE LIMIT OF CONSTRUCTION.
3. TOWN TO MAINTAIN ALL PAVEMENT MARKINGS ON PEPPER STREET WITHIN ESTABLISHED RIGHT OF WAY UPON COMPLETION OF WORK.

SCHEDULE OF RIGHTS AND EASEMENTS

- (A) EASEMENT FOR HIGHWAY PURPOSES
- (B) EASEMENT TO INSTALL AND MAINTAIN TRAFFIC SIGNALIZATION DEVICES
- (C) EASEMENT TO DISCHARGE AND STORM DRAINAGE
- (D) TRAFFIC EASEMENT
- (E) EASEMENT TO SLOPE FOR SUPPORT OF HIGHWAY
- (F) RIGHT TO CONSTRUCT DRIVEWAY AND INSTALL DRAINAGE
- (G) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM
- (H) EASEMENT TO SLOPE FOR SAFETY OF HIGHWAY
- (I) TAKE
- (J) DRAINAGE RIGHT OF WAY
- (K) RIGHT TO CONSTRUCT DRIVEWAY
- (L) RIGHT TO CONSTRUCT TEMPORARY ROAD
- (M) RIGHT TO GRADE
- (N) DEFINED EASEMENT (TRANSPORTATION)
- (O) DEFINED EASEMENT FOR AERIAL HIGHWAY APPURTENANCES
- (P) RIGHT TO INSTALL PLANTINGS
- (Q) CONSTRUCTION EASEMENT FOR TEMPORARY WATER HANDLING



355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS
No. Date Desc.

Designed S.K.B.
Drawn E.L.Z.
Checked M.G.F.
Approved D.A.K.
Scale N.T.S.
Project No. 12C4326
Date 06/26/2019
CAD File: TGEN12C432601

Title
GENERAL NOTES SHEET

Sheet No.

GEN-1

BORING NOTES

1. BORINGS TAKEN BY NOBIS ENGINEERING, INC. ON MAY 8, 2014 AND MAY 9, 2014.



355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

Connecticut DOT Boring Report									
Driller: T. Soba		Hole No.: NB-C-01				Stat./Offset: 42+75			
Inspector: P. Nichols		Town: Monroe, Connecticut				Project No.: 88170.00			
Engineer: Nobis Engineering		Project No.: 88170.00				Northing: 685041.88			
Start Date: 05-08-14		Route No.: Pepper Street				Easting: 863751.47			
Finish Date: 05-08-14		Bridge No.: N/A				Surface Elevation: 387			
Project Description: Pepper Street Roadway Re-Alignment									
Casing Size/Type: 3.25"/HSA		Sampler Type/Size: SS/1 3/8"				Core Barrel Type: N/A			
Hammer Wt.: N/A		Fall: N/A in.				Hammer Wt.: 140			
Fall: N/A in.		Hammer Wt.: 140				Fall: 30 in.			
Groundwater Observations: @5 after 0 hours									
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)	
0						PAVEMENT STRUCTURE MISC. FILL	S-1A (4"): Very dense, brown, coarse GRAVEL, little coarse to fine Sand, trace Silt, moist	385	
	S-1	15 48 26 20	24	14			S-1B (10"): Very dense, asphalt fragments, moist		
	S-2	19 21 75	17	10			S-2: Very dense, brown, coarse to fine SAND and coarse GRAVEL, trace Silt, moist Auger chatter from 4 to 5 feet		
5						GRAVELLY SAND	S-3: Loose, brown, coarse to fine SAND, some medium to fine Gravel, trace Silt, wet	380	
	S-3	6 3 6 8	24	16					
	S-4	6 15 22 32	24	18			S-4: Dense, brown to dark brown, coarse to fine SAND, some fine to coarse Gravel, little Silt, wet		
10							S-5: Very dense, brown to dark brown, coarse to fine SAND, some coarse to fine Gravel, little Silt, wet	375	
	S-5	18 25 53 53	24	12					
15							S-6: Very dense, brown to dark brown, coarse to fine SAND, some coarse to fine Gravel, little Silt, wet	370	
	S-6	78 30 27 18	24	18					
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%									
Total Penetration in Earth: 36.2ft		Rock: 0ft		NOTES: 1. Augered through approximately 6 inches asphalt. 2. S-5 and deeper: water added to keep hole open. 3. Hole backfilled with drill cuttings after completion.				Sheet 1 of 2	
No. of Soil Samples: 10		No. of Core Runs: 0		SM-001-M REV. 1/02					

Connecticut DOT Boring Report									
Driller: T. Soba		Hole No.: NB-C-02				Stat./Offset: 42+90			
Inspector: P. Nichols		Town: Monroe, Connecticut				Project No.: 88170.00			
Engineer: Nobis Engineering		Project No.: 88170.00				Northing: 685021.62			
Start Date: 05-09-14		Route No.: Pepper Street				Easting: 863759.58			
Finish Date: 05-09-14		Bridge No.: N/A				Surface Elevation: 387			
Project Description: Pepper Street Roadway Re-Alignment									
Casing Size/Type: 3.25"/HSA		Sampler Type/Size: SS/1 3/8"				Core Barrel Type: N/A			
Hammer Wt.: N/A		Fall: N/A in.				Hammer Wt.: 140			
Fall: N/A in.		Hammer Wt.: 140				Fall: 30 in.			
Groundwater Observations: @5 after 0 hours									
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)	
0						PAVEMENT STRUCTURE MISC. FILL GRAVELLY SAND	S-1A (6"): Very dense, gray, processed base course, moist	385	
	S-1	29 40 40 28	24	14			S-1B (8"): Very dense, orange to dark brown, coarse to fine SAND, some coarse to fine Gravel, trace Silt, moist		
5							S-2: Loose, brown, coarse to fine SAND, some fine Gravel, little Silt, wet	380	
	S-2	3 4 5 10	24	4					
10							S-3: Dense, brown to gray, coarse to fine SAND and coarse to fine GRAVEL (incl. broken cobble pieces), trace Silt, wet	375	
	S-3	62 29 20 31	24	14					
15							S-4: Dense, brown to gray, coarse to fine SAND, some coarse to fine Gravel, trace Silt, wet	370	
	S-4	16 16 21 19	24	16					
20							S-5: Very dense, brown to gray, coarse to fine SAND, trace medium to fine Gravel, trace Silt, wet	365	
	S-5	35 78 50	13	8					
25							S-6: Dense, brown to gray, coarse to fine SAND, trace medium to fine Gravel, trace Silt, wet	360	
	S-6	10 18 16 27	24	10					
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%									
Total Penetration in Earth: 52ft		Rock: 0ft		NOTES: 1. Boulder/auger refusal encountered at 3 ft, offset 3 ft southeast. 2. Augered through approximately 4 inches asphalt. 3. S-5 and deeper: water added to keep hole open. 4. Hole backfilled with drill cuttings after completion.				Sheet 1 of 2	
No. of Soil Samples: 11		No. of Core Runs: 0		SM-001-M REV. 1/02					

Connecticut DOT Boring Report									
Driller: T. Soba		Hole No.: NB-C-01				Stat./Offset: 42+75			
Inspector: P. Nichols		Town: Monroe, Connecticut				Project No.: 88170.00			
Engineer: Nobis Engineering		Project No.: 88170.00				Northing: 685041.88			
Start Date: 05-08-14		Route No.: Pepper Street				Easting: 863751.47			
Finish Date: 05-08-14		Bridge No.: N/A				Surface Elevation: 387			
Project Description: Pepper Street Roadway Re-Alignment									
Casing Size/Type: 3.25"/HSA		Sampler Type/Size: SS/1 3/8"				Core Barrel Type: N/A			
Hammer Wt.: N/A		Fall: N/A in.				Hammer Wt.: 140			
Fall: N/A in.		Hammer Wt.: 140				Fall: 30 in.			
Groundwater Observations: @5 after 0 hours									
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)	
20						GRAVELLY SAND (cont)	S-7: Very dense, dark gray, coarse to fine SAND, trace Silt, wet	365	
	S-7	11 16 70 62	24	16					
25							S-8: Very dense, brown to gray, coarse to fine SAND, trace fine Gravel, trace Silt wet	360	
	S-8	5 42 78 56	24	20					
30							S-9: Very dense, brown to gray, coarse to fine SAND, little fine Gravel, trace Silt, wet	355	
	S-9	10 50 50	15	15					
35							S-10: Very dense, brown to gray, coarse to fine SAND, trace Silt, wet	350	
	S-10	42 78 50	14	14					
40							END OF BORING 36.2ft	350	
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%									
Total Penetration in Earth: 36.2ft		Rock: 0ft		NOTES: 1. Augered through approximately 6 inches asphalt. 2. S-5 and deeper: water added to keep hole open. 3. Hole backfilled with drill cuttings after completion.				Sheet 2 of 2	
No. of Soil Samples: 10		No. of Core Runs: 0		SM-001-M REV. 1/02					

Connecticut DOT Boring Report									
Driller: T. Soba		Hole No.: NB-C-02				Stat./Offset: 42+90			
Inspector: P. Nichols		Town: Monroe, Connecticut				Project No.: 88170.00			
Engineer: Nobis Engineering		Project No.: 88170.00				Northing: 685021.62			
Start Date: 05-09-14		Route No.: Pepper Street				Easting: 863759.58			
Finish Date: 05-09-14		Bridge No.: N/A				Surface Elevation: 387			
Project Description: Pepper Street Roadway Re-Alignment									
Casing Size/Type: 3.25"/HSA		Sampler Type/Size: SS/1 3/8"				Core Barrel Type: N/A			
Hammer Wt.: N/A		Fall: N/A in.				Hammer Wt.: 140			
Fall: N/A in.		Hammer Wt.: 140				Fall: 30 in.			
Groundwater Observations: @5 after 0 hours									
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	ROD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)	
30						GRAVELLY SAND (cont)	S-7: Dense, gray, coarse to fine SAND, trace Silt, wet	355	
	S-7	27 20 16 28	24	18					
35							S-8: Very dense, gray, coarse to fine SAND, trace Silt, wet	350	
	S-8	14 50 50	14	8					
40							S-9: Very dense, gray, coarse to fine SAND, trace Silt, wet	345	
	S-9	13 36 35 29	24	21					
45							S-10: Medium dense, gray, coarse to fine SAND, trace Silt, wet	340	
	S-10	8 10 15 25	24	1					
50							S-11: Very dense, gray, coarse SAND, little coarse to fine Gravel, trace Silt, wet	335	
	S-11	27 42 40 24	24	12					
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%									
Total Penetration in Earth: 52ft		Rock: 0ft		NOTES: 1. Boulder/auger refusal encountered at 3 ft, offset 3 ft southeast. 2. Augered through approximately 4 inches asphalt. 3. S-5 and deeper: water added to keep hole open. 4. Hole backfilled with drill cuttings after completion.				Sheet 2 of 2	
No. of Soil Samples: 11		No. of Core Runs: 0		SM-001-M REV. 1/02					

6/26/2019, C:\STRAND, G. VORREZ\120\1254336\DWG\BOR-1_24X36_NTS

REVISIONS
No. Date Desc.

Designed C.A.P.
Drawn C.A.P.
Checked
Approved N.T.S.
Project No. 12C4326
Date 06/26/2019
CAD File: TBOR12C432601

Title
BORING LOGS 1

Sheet No.

BOR-1

Xref (s): ; BB12C432601

BORING NOTES

1. BORINGS TAKEN BY NOBIS ENGINEERING, INC. ON MAY 7, 2014.



355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

REVISIONS
No. Date Desc.

Designed C.A.P.
Drawn C.A.P.
Checked
Approved
Scale N.T.S.
Project No. 12C4326
Date 06/26/2019
CAD File: TBOR12C432602

Title
BORING LOGS 2

Sheet No.

BOR-2

Xref (3) : BDR2C432601

Connecticut DOT Boring Report											
Driller: T. Soba	Town: Monroe, Connecticut				Hole No.: NB-C-03						
Inspector: P. Nichols	Stat./Offset: 42+80										
Engineer: Nobis Engineering	Project No.: 88170.00				Northing: 685024.67						
Start Date: 05-07-14	Route No.: Pepper Street				Easting: 863731.21						
Finish Date: 05-07-14	Bridge No.: N/A				Surface Elevation: 387						
Project Description: Pepper Street Roadway Re-Alignment											
Casing Size/Type: 3.25"/HSA			Sampler Type/Size: SS/1 3/8"			Core Barrel Type: N/A					
Hammer Wt.: N/A			Fall: N/Ain.			Hammer Wt.: 140				Fall: 30in.	
Groundwater Observations: @7 after 0 hours, @3.8 after 1 hours, @4 after 3.5 hours											
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)			
0	S-1	28 37 50 30	24	14		PAVEMENT STRUCTURE MISC. FILL	S-1: Very dense, brown to white, coarse to fine SAND and coarse to fine GRAVEL (incl. broken cobble pieces), trace Silt, moist	385			
	S-2	28 20 30 14	24	14			S-2: Very dense, brown to white, coarse to fine SAND and coarse to fine GRAVEL (incl. broken cobble pieces), trace Silt, moist				
5	S-3	6 8 7 14	24	10		GRAVELLY SAND	S-3: Medium dense, brown, coarse to fine SAND, little coarse to fine Gravel, little Silt, moist	380			
	S-4	5 20 39 29	24	20			S-4 (16"): Very dense, brown, coarse to fine SAND, little coarse to fine Gravel, little Silt, wet S-4B (4"): Very dense, dark gray, fine SAND, little coarse to fine Gravel, little Silt, wet				
10	S-5	20 15 21 22	24	10			Auger chatter from 10 to 15 feet. S-5: Dense, brown to dark gray, coarse SAND, some coarse to fine Gravel, little Silt, wet	375			
15	S-6	16 51 23 13	24	20			S-6: Very dense, brown to gray, coarse SAND, some coarse to fine Gravel, trace Silt, wet	370			
20	Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%										
Total Penetration in Earth: 32ft			Rock: 0ft			NOTES: 1. Augered through approximately 5 inches asphalt. 2. S-5 and deeper: water added to keep hole open. 3. Hole backfilled with drill cuttings after completion.			Sheet 1 of 2		
No. of Soil Samples: 9			No. of Core Runs: 0						SM-001-M REV. 1/02		

Connecticut DOT Boring Report											
Driller: T. Soba	Town: Monroe, Connecticut				Hole No.: NB-C-04						
Inspector: P. Nichols	Stat./Offset: 43+00										
Engineer: Nobis Engineering	Project No.: 88170.00				Northing: 685004.4						
Start Date: 05-07-14	Route No.: Pepper Street				Easting: 863741.37						
Finish Date: 05-07-14	Bridge No.: N/A				Surface Elevation: 387						
Project Description: Pepper Street Roadway Re-Alignment											
Casing Size/Type: 3.25"/HSA			Sampler Type/Size: SS/1 3/8"			Core Barrel Type: N/A					
Hammer Wt.: N/A			Fall: N/Ain.			Hammer Wt.: 140				Fall: 30in.	
Groundwater Observations: @7 after 0 hours											
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)			
0	S-1	36 35 27 20	24	16		PAVEMENT STRUCTURE MISC. FILL	S-1: Very dense, brown to gray, coarse to fine SAND and coarse to fine GRAVEL, little Silt, moist S-2A (6"): Medium dense, brown, coarse to fine SAND, some medium to fine Gravel, little Silt, moist S-2B (6"): Medium dense, brown, former TOPSOIL, trace roots, moist	385			
	S-2	17 12 14 16	24	12		TOPSOIL					
5	S-3	18 12 6 5	24	10		GRAVELLY SAND	S-3: Medium dense, brown, coarse to fine SAND, little medium to fine Gravel, trace Silt, moist	380			
	S-4	7 11 13 17	24	16			S-4: Medium dense, black to white to brown, coarse to fine SAND, some coarse to fine Gravel, little Silt, wet				
10	S-5	30 18 17 28	24	15			Auger chatter from 10 to 15 feet. S-5: Medium dense, brown to black, coarse to fine SAND, little coarse to fine Gravel, little Silt, wet	375			
15	S-6	50	1	0			S-6: Very dense, no recovery	370			
20	Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%										
Total Penetration in Earth: 32ft			Rock: 0ft			NOTES: 1. Augered through approximately 5 inches asphalt. 2. S-5 and deeper: water added to keep hole open. 3. Hole backfilled with drill cuttings after completion.			Sheet 1 of 2		
No. of Soil Samples: 9			No. of Core Runs: 0						SM-001-M REV. 1/02		

Connecticut DOT Boring Report											
Driller: T. Soba	Town: Monroe, Connecticut				Hole No.: NB-C-03						
Inspector: P. Nichols	Stat./Offset: 42+80										
Engineer: Nobis Engineering	Project No.: 88170.00				Northing: 685024.67						
Start Date: 05-07-14	Route No.: Pepper Street				Easting: 863731.21						
Finish Date: 05-07-14	Bridge No.: N/A				Surface Elevation: 387						
Project Description: Pepper Street Roadway Re-Alignment											
Casing Size/Type: 3.25"/HSA			Sampler Type/Size: SS/1 3/8"			Core Barrel Type: N/A					
Hammer Wt.: N/A			Fall: N/Ain.			Hammer Wt.: 140				Fall: 30in.	
Groundwater Observations: @7 after 0 hours, @3.8 after 1 hours, @4 after 3.5 hours											
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)			
20	S-7	13 24 58 50	20	16		GRAVELLY SAND (cont)	S-7: Very dense, brown to gray, coarse to fine SAND, trace medium to fine Gravel, trace Silt, wet	365			
25	S-8	3 7 10 11	24	15			S-8: Medium dense, brown to gray, coarse to fine SAND, little coarse to fine Gravel, trace Silt, wet	360			
30	S-9	19 10 11 25	24	14			S-9: Medium dense, brown to gray, coarse SAND, trace medium to fine Gravel, trace Silt, wet	355			
35	END OF BORING 32ft										
40	Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%										
Total Penetration in Earth: 32ft			Rock: 0ft			NOTES: 1. Augered through approximately 5 inches asphalt. 2. S-5 and deeper: water added to keep hole open. 3. Hole backfilled with drill cuttings after completion.			Sheet 2 of 2		
No. of Soil Samples: 9			No. of Core Runs: 0						SM-001-M REV. 1/02		

Connecticut DOT Boring Report											
Driller: T. Soba	Town: Monroe, Connecticut				Hole No.: NB-C-04						
Inspector: P. Nichols	Stat./Offset: 43+00										
Engineer: Nobis Engineering	Project No.: 88170.00				Northing: 685004.4						
Start Date: 05-07-14	Route No.: Pepper Street				Easting: 863741.37						
Finish Date: 05-07-14	Bridge No.: N/A				Surface Elevation: 387						
Project Description: Pepper Street Roadway Re-Alignment											
Casing Size/Type: 3.25"/HSA			Sampler Type/Size: SS/1 3/8"			Core Barrel Type: N/A					
Hammer Wt.: N/A			Fall: N/Ain.			Hammer Wt.: 140				Fall: 30in.	
Groundwater Observations: @7 after 0 hours											
Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)			
20	S-7	5 40 66 43	24	22		GRAVELLY SAND (cont)	S-7: Very dense, brown to gray, coarse to fine SAND, little medium to fine Gravel, trace Silt, wet	365			
25	S-8	7 19 50	14	12			S-8: Very dense, gray, coarse to fine SAND, little medium to fine Gravel, trace Silt, wet	360			
30	S-9	7 18 28 32	24	18			S-9: Dense, gray, coarse to fine SAND, little coarse to fine Gravel, trace Silt, wet	355			
35	END OF BORING 32ft										
40	Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%										
Total Penetration in Earth: 32ft			Rock: 0ft			NOTES: 1. Augered through approximately 5 inches asphalt. 2. S-5 and deeper: water added to keep hole open. 3. Hole backfilled with drill cuttings after completion.			Sheet 2 of 2		
No. of Soil Samples: 9			No. of Core Runs: 0						SM-001-M REV. 1/02		

BORING NOTES

1. BORINGS TAKEN BY NOBIS ENGINEERING, INC. ON MAY 8, 2014 AND MAY 9, 2014.



355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS
No. Date Desc.

Designed C.A.P.
Drawn C.A.P.
Checked
Approved N.T.S.
Project No. 12C4326
Date 06/26/2019
CAD File: TBOR12C432603

Title
BORING LOGS 3

Sheet No.

BOR-3

Xref (s): . : BDR2C432601

Connecticut DOT Boring Report									
Driller: T. Soba		Hole No.: NB-R-01							
Inspector: P. Nichols		Town: Monroe, Connecticut				Stat./Offset: 688191.35			
Engineer: Nobis Engineering		Project No.: 88170.00				Northing: 860108.13			
Start Date: 05-06-14		Route No.: Pepper Street				Easting: 426			
Finish Date: 05-06-14		Bridge No.: N/A				Surface Elevation: 426			
Project Description: Pepper Street Roadway Re-Alignment									
Casing Size/Type: 3.25"/HSA		Sampler Type/Size: SS/1 3/8"				Core Barrel Type: N/A			
Hammer Wt.: N/A		Fall: N/A in. Hammer Wt.: 140				Fall: 30 in.			
Groundwater Observations: @4 after 0 hours, @5.5 after 0 hours									
Depth (ft)	Sample Type/No.	SAMPLES			Generalized Strata Description	Material Description and Notes	Elevation (ft)		
		Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)				RQD %	
0					PAVEMENT STRUCTURE MISC. FILL	S-1A (7"): Very dense, orange to brown, coarse to fine SAND, little silt, little coarse Gravel (broken cobble pieces), moist	425		
	S-1	10	34	20	8	24	10	S-1B (3"): Very dense, brown, SILT, little fine Sand, moist	
	S-2	9	11	40	43	24	8	S-2: Very dense, brown, coarse to fine GRAVEL and coarse to fine SAND, trace Silt, lenses of clay/silt, moist	
5					GLACIAL TILL				
	S-3	51	59	43	64	24	20	S-3: Very dense, brown, coarse SAND, some coarse to fine Gravel (incl. broken cobble pieces), trace Silt, wet	
	S-4	60	75			11	9	S-4: Very dense, brown, coarse to fine SAND, little coarse to fine Gravel, little Silt, wet	
10									
	S-5	11	15	57	51	24	21	S-5: Very dense, brown, coarse to fine SAND, trace Silt, wet	
15									
20								END OF BORING 12ft	
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%									
Total Penetration in Earth: 12ft		Rock: 0ft		NOTES: 1. Augered through approximately 5 inches asphalt. 2. Hole backfilled with drill cuttings after completion.				Sheet 1 of 1	
No. of Soil Samples: 5		No. of Core Runs: 0		SM-001-M REV. 1/02					

Connecticut DOT Boring Report									
Driller: T. Soba		Hole No.: NB-R-02							
Inspector: P. Nichols		Town: Monroe, Connecticut				Stat./Offset: 11+00			
Engineer: Nobis Engineering		Project No.: 88170.00				Northing: 687590.52			
Start Date: 05-09-14		Route No.: Pepper Street				Easting: 861941.32			
Finish Date: 05-09-14		Bridge No.: N/A				Surface Elevation: 415			
Project Description: Pepper Street Roadway Re-Alignment									
Casing Size/Type: 3.25"/HSA		Sampler Type/Size: SS/1 3/8"				Core Barrel Type: N/A			
Hammer Wt.: N/A		Fall: N/A in. Hammer Wt.: 140				Fall: 30 in.			
Groundwater Observations: @5 after 0 hours									
Depth (ft)	Sample Type/No.	SAMPLES			Generalized Strata Description	Material Description and Notes	Elevation (ft)		
		Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)				RQD %	
0					PAVEMENT STRUCTURE MISC. FILL	S-1: Very dense, brown to white, coarse to fine GRAVEL (incl. broken cobble pieces), some coarse to fine Sand, trace Silt, moist	415		
	S-1	18	44	24	15	24	14		
	S-2	16	22	56	55	24	16		
5					GLACIAL TILL				
	S-3	17	58	50		15	10	S-3: Very dense, brown, coarse to fine SAND and coarse to fine GRAVEL (incl. broken cobble pieces), little Silt, moist	
10								END OF BORING 6.3ft	
15									
20									
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%									
Total Penetration in Earth: 6.3ft		Rock: 0ft		NOTES: 1. Augered through approximately 6 inches asphalt. 2. Hole backfilled with drill cuttings after completion.				Sheet 1 of 1	
No. of Soil Samples: 3		No. of Core Runs: 0		SM-001-M REV. 1/02					

Connecticut DOT Boring Report									
Driller: T. Soba		Hole No.: NB-R-03							
Inspector: P. Nichols		Town: Monroe, Connecticut				Stat./Offset: 14+50			
Engineer: Nobis Engineering		Project No.: 88170.00				Northing: 687393.01			
Start Date: 05-06-14		Route No.: Pepper Street				Easting: 862237.46			
Finish Date: 05-06-14		Bridge No.: N/A				Surface Elevation: 420			
Project Description: Pepper Street Roadway Re-Alignment									
Casing Size/Type: 3.25"/HSA		Sampler Type/Size: SS/1 3/8"				Core Barrel Type: N/A			
Hammer Wt.: N/A		Fall: N/A in. Hammer Wt.: 140				Fall: 30 in.			
Groundwater Observations: @5 after 0 hours, @5.3 after 0.2 hours									
Depth (ft)	Sample Type/No.	SAMPLES			Generalized Strata Description	Material Description and Notes	Elevation (ft)		
		Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)				RQD %	
0					PAVEMENT STRUCTURE MISC. FILL	S-1A (7"): Medium dense, brown, coarse to fine SAND, little Silt, little medium to fine Gravel, moist	420		
	S-1	13	12	6	5	24	13	S-1B (6"): Medium dense, brown, SILT, little fine Sand, moist	
	S-2	14	26	35	34	24	8	S-2: Very dense, brown, coarse to fine SAND, little coarse Gravel (broken cobble pieces), moist Auger chatter from 4 to 5 feet.	
5					GLACIAL TILL				
	S-3	46	44	46	38	24	12	S-3: Very dense, gray to brown, coarse to fine SAND, little coarse to fine Gravel, little Silt, wet	
	S-4	21	39	46	42	24	21	S-4: Very dense, gray to brown, coarse to fine SAND, some coarse to fine Gravel (incl. broken cobble pieces), little Silt, wet	
10								END OF BORING 9ft	
15									
20									
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%									
Total Penetration in Earth: 9ft		Rock: 0ft		NOTES: 1. Augered through approximately 10 inches asphalt. 2. Hole backfilled with drill cuttings after completion.				Sheet 1 of 1	
No. of Soil Samples: 4		No. of Core Runs: 0		SM-001-M REV. 1/02					

Connecticut DOT Boring Report									
Driller: T. Soba		Hole No.: NB-R-04							
Inspector: P. Nichols		Town: Monroe, Connecticut				Stat./Offset: 19+25			
Engineer: Nobis Engineering		Project No.: 88170.00				Northing: 687072.8			
Start Date: 05-09-14		Route No.: Pepper Street				Easting: 862587.68			
Finish Date: 05-09-14		Bridge No.: N/A				Surface Elevation: 433			
Project Description: Pepper Street Roadway Re-Alignment									
Casing Size/Type: 4"/SSA		Sampler Type/Size: SS/1 3/8"				Core Barrel Type: N/A			
Hammer Wt.: N/A		Fall: N/A in. Hammer Wt.: 140				Fall: 30 in.			
Groundwater Observations: @Dry									
Depth (ft)	Sample Type/No.	SAMPLES			Generalized Strata Description	Material Description and Notes	Elevation (ft)		
		Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)				RQD %	
0					PAVEMENT STRUCTURE MISC. FILL	S-1: Medium dense, brown, coarse to fine SAND, little coarse to fine Gravel, little Silt, oil odor, moist	430		
	S-1	9	15	13	7	24	10		
	S-2	9	26	65	50	20	6	Auger chatter from 3 to 7 feet. S-2: Very dense, brown, coarse to fine SAND and coarse to fine GRAVEL, little Silt, oil odor, moist	
5					GLACIAL TILL				
	S-3	50				2	2	S-3: Very dense, brown, coarse to fine SAND, little medium to fine Gravel, little Silt, oil odor, moist	
10									
	S-4	100				5	5	S-4: Very dense, gray to brown, coarse to fine SAND, little coarse to fine Gravel (incl. broken cobble pieces), little Silt, moist	
15								END OF BORING 10.4ft	
20									
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%									
Total Penetration in Earth: 10.4ft		Rock: 0ft		NOTES: 1. Auger refusal at 7 ft. Offset 3 ft southeast. 2. Augered through approximately 5 inches asphalt. 3. No groundwater observed at the time of exploration. 4. Hole backfilled with drill cuttings after completion.				Sheet 1 of 1	
No. of Soil Samples: 4		No. of Core Runs: 0		SM-001-M REV. 1/02					

Connecticut DOT Boring Report									
Driller: T. Soba		Hole No.: NB-R-05							
Inspector: P. Nichols		Town: Monroe, Connecticut				Stat./Offset: 23+50			
Engineer: Nobis Engineering		Project No.: 88170.00				Northing: 686690.97			
Start Date: 05-06-14		Route No.: Pepper Street				Easting: 862775.27			
Finish Date: 05-06-14		Bridge No.: N/A				Surface Elevation: 424			
Project Description: Pepper Street Roadway Re-Alignment									
Casing Size/Type: 3.25"/HSA		Sampler Type/Size: SS/1 3/8"				Core Barrel Type: N/A			
Hammer Wt.: N/A		Fall: N/A in. Hammer Wt.: 140				Fall: 30 in.			
Groundwater Observations: @8.5 after 0 hours, @10.5 after 0.2 hours									
Depth (ft)	Sample Type/No.	SAMPLES			Generalized Strata Description	Material Description and Notes	Elevation (ft)		
		Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)				RQD %	
0					PAVEMENT STRUCTURE MISC. FILL	S-1: Very dense, gray to brown, coarse to fine SAND, some coarse to fine Gravel (incl. broken cobble pieces), little Silt, moist	420		
	S-1	32	30	24	43	24	16		
	S-2	26	24	19	13	24	8	Auger chatter from 3 to 5 feet. S-2: Dense, brown, coarse to fine GRAVEL (incl. broken cobble pieces) and coarse to fine SAND, little Silt, moist	
5					GRAVELLY SAND				
	S-3	7	7	6	9	24	6	S-3: Medium dense, brown, coarse to fine SAND, little Silt, little coarse Gravel, oil odor, moist	
	S-4	7	5	4	3	24	8	S-4: Loose, brown, coarse to fine SAND, little Silt, trace medium to fine Gravel, moist	
10									
	S-5	12	8	17	23	24	12	S-5: Medium dense, brown, coarse to fine SAND, trace Silt, wet	
15								END OF BORING 12ft	
20									
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%									
Total Penetration in Earth: 12ft		Rock: 0ft		NOTES: 1. Augered through approximately 6 inches asphalt. 2. Hole backfilled with drill cuttings after completion.				Sheet 1 of 1	
No. of Soil Samples: 5		No. of Core Runs: 0		SM-001-M REV. 1/02					

Connecticut DOT Boring Report									
Driller: T. Soba		Hole No.: NB-R-06							
Inspector: P. Nichols		Town: Monroe, Connecticut				Stat./Offset: 28+00			
Engineer: Nobis Engineering		Project No.: 88170.00				Northing: 686292.57			
Start Date: 05-06-14		Route No.: Pepper Street				Easting: 862983.43			
Finish Date: 05-06-14		Bridge No.: N/A				Surface Elevation: 403			
Project Description: Pepper Street Roadway Re-Alignment									
Casing Size/Type: 3.25"/HSA		Sampler Type/Size: SS/1 3/8"				Core Barrel Type: N/A			
Hammer Wt.: N/A		Fall: N/A in. Hammer Wt.: 140				Fall: 30 in.			
Groundwater Observations: @3.5 after 0 hours, @5 after 0.2 hours									
Depth (ft)	Sample Type/No.	SAMPLES			Generalized Strata Description	Material Description and Notes	Elevation (ft)		
		Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)				RQD %	
0					PAVEMENT STRUCTURE MISC. FILL	S-1: Very dense, gray to brown, coarse to fine SAND, little coarse to fine Gravel, little Silt, moist	400		
	S-1	41	26	24	19	24	18		
	S-2	19	21	30	40	24	12	S-2: Very dense, orange to brown, coarse to fine SAND, some coarse to fine Gravel, little Silt, wet	
5					GRAVELLY SAND				
	S-3	3	3	3	4	24	8	S-3: Loose, brown, coarse to fine SAND, trace Silt, wet	
	S-4	1	3	10	13	24	12	S-4: Medium dense, brown, coarse to fine SAND, little Silt, trace medium to fine Gravel, wet	
10									
	S-5	50				2	2	S-5: Very dense, black to white, residual soil (GNEISS), wet	
15								END OF BORING 10.2ft	
20									
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%									
Total Penetration in Earth: 10.2ft		Rock: 0ft		NOTES: 1. Augered through approximately 8 inches asphalt. 2. Hole backfilled with drill cuttings after completion.				Sheet 1 of 1	
No. of Soil Samples: 5		No. of Core Runs: 0		SM-001-M REV. 1/02					

BORING NOTES

1. BORINGS TAKEN BY NOBIS ENGINEERING, INC. ON MAY 8, 2014 AND MAY 9, 2014.



ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING

355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS
No. Date Desc.

Designed C.A.P.
Drawn C.A.P.
Checked
Approved
Scale N.T.S.
Project No. 12C4326
Date 06/26/2019
CAD File: TBOR12C432604

Title
BORING LOGS 4

Sheet No.

BOR-4

Xref (3) : B012C432601

Connecticut DOT Boring Report										
Driller: T. Soba		Town: Monroe, Connecticut		Hole No.: NB-R-07						
Inspector: P. Nichols		Stat./Offset: 32+00		Project No.: 88170.00						
Engineer: Nobis Engineering		Route No.: Pepper Street		Northing: 685922.88						
Start Date: 05-06-14		Bridge No.: N/A		Easting: 863137.51						
Finish Date: 05-06-14		Surface Elevation: 390								
Project Description: Pepper Street Roadway Re-Alignment										
Casing Size/Type: 3.25"/HSA		Sampler Type/Size: SS/1 3/8"		Core Barrel Type: N/A						
Hammer Wt.: N/A		Fall: N/Ain.		Hammer Wt.: 140		Fall: 30in.				
Groundwater Observations: @4 after 0 hours										
Depth (ft)	Sample Type/No.	SAMPLES			Generalized Strata Description	Material Description and Notes	Elevation (ft)			
		Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)				RQD %		
0	S-1	22	30	18	15	24	10	PAVEMENT STRUCTURE MISC. FILL	S-1: Dense, brown, coarse to fine SAND, little silt, trace coarse to fine Gravel, trace brick and yellow plastic, moist	390
	S-2	14	14	9	8	24	12	GRAVELLY SAND	S-2: Medium dense, brown, coarse to fine SAND, little silt, little coarse to fine Gravel, moist	
5	S-3	7	8	7	18	24	4		S-3: Medium dense, brown, coarse SAND, some medium to fine Gravel, trace Silt, wet	385
	S-4	24	13	14	17	24	18		S-4A (9"): Medium dense, brown, coarse SAND, little coarse to fine Gravel, trace Silt, wet S-4B (9"): Medium dense, brown, fine SAND, trace Silt, wet	380
10	S-5	9	9	6	7	24	18		S-5: Medium dense, brown, fine SAND, trace Silt, wet	375
	END OF BORING 12ft									370
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%										
Total Penetration in Earth: 12ft		Rock: 0ft		NOTES: 1. Augered through approximately 6 inches asphalt. 2. Hole backfilled with drill cuttings after completion.				Sheet 1 of 1		
No. of Soil Samples: 5		No. of Core Runs: 0						SM-001-M REV. 1/02		

Connecticut DOT Boring Report										
Driller: T. Soba		Town: Monroe, Connecticut		Hole No.: NB-R-08						
Inspector: P. Nichols		Stat./Offset: 35+50		Project No.: 88170.00						
Engineer: Nobis Engineering		Route No.: Pepper Street		Northing: 685660.45						
Start Date: 05-09-14		Bridge No.: N/A		Easting: 863350.82						
Finish Date: 05-09-14		Surface Elevation: 387								
Project Description: Pepper Street Roadway Re-Alignment										
Casing Size/Type: 3.25"/HSA		Sampler Type/Size: SS/1 3/8"		Core Barrel Type: N/A						
Hammer Wt.: N/A		Fall: N/Ain.		Hammer Wt.: 140		Fall: 30in.				
Groundwater Observations: @7 after 0 hours										
Depth (ft)	Sample Type/No.	SAMPLES			Generalized Strata Description	Material Description and Notes	Elevation (ft)			
		Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)				RQD %		
0	S-1	10	18	20	10	24	12	PAVEMENT STRUCTURE MISC. FILL	S-1: Dense, brown to dark brown, coarse to fine SAND, some silt, little medium to fine Gravel, trace glass, organic odor, moist	385
	S-2	10	13	9	9	24	10	GLACIAL TILL	S-2: Medium dense, brown to dark brown to black, coarse to fine SAND, some silt, little coarse Gravel, oil odor, moist	
5	S-3	13	16	20	19	24	8		S-3: Dense, mottled gray to brown, coarse to fine SAND, some silt, little coarse Gravel, moist	380
	S-4	28	32	36	38	24	4		S-4: Very dense, mottled gray to brown, coarse to fine SAND, some silt, little coarse Gravel (incl. broken cobble pieces), wet	375
10	END OF BORING 9ft									370
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%										
Total Penetration in Earth: 9ft		Rock: 0ft		NOTES: 1. Swamp area observed on east side of existing roadway. 2. Augered through approximately 3 inches asphalt and 3 inches base course. 3. Hole backfilled with drill cuttings after completion.				Sheet 1 of 1		
No. of Soil Samples: 4		No. of Core Runs: 0						SM-001-M REV. 1/02		

Connecticut DOT Boring Report										
Driller: T. Soba		Town: Monroe, Connecticut		Hole No.: NB-R-09						
Inspector: P. Nichols		Stat./Offset: 39+50		Project No.: 88170.00						
Engineer: Nobis Engineering		Route No.: Pepper Street		Northing: 685332.3						
Start Date: 05-07-14		Bridge No.: N/A		Easting: 863587.04						
Finish Date: 05-07-14		Surface Elevation: 388								
Project Description: Pepper Street Roadway Re-Alignment										
Casing Size/Type: 3.25"/HSA		Sampler Type/Size: SS/1 3/8"		Core Barrel Type: N/A						
Hammer Wt.: N/A		Fall: N/Ain.		Hammer Wt.: 140		Fall: 30in.				
Groundwater Observations: @Dry										
Depth (ft)	Sample Type/No.	SAMPLES			Generalized Strata Description	Material Description and Notes	Elevation (ft)			
		Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)				RQD %		
0	S-1	26	29	19	23	24	14	PAVEMENT STRUCTURE MISC. FILL GLACIAL TILL	Auger chatter throughout borehole. S-1: Dense, brown to white, coarse to fine SAND, some coarse to fine Gravel, little silt, moist	385
	S-2	28	57	53	60	24	16		S-2: Very dense, brown to white, coarse to fine SAND and coarse to fine GRAVEL (incl. broken cobble pieces), trace Silt, moist	
5	S-3	25	34	50		16	10		S-3: Very dense, brown, coarse to fine SAND, some coarse to fine Gravel (incl. broken cobble pieces), trace Silt, moist	380
	END OF BORING 6.3ft									375
10										370
15										
20										
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%										
Total Penetration in Earth: 6.3ft		Rock: 0ft		NOTES: 1. No groundwater observed at the time of exploration. 2. Hole backfilled with drill cuttings after completion.				Sheet 1 of 1		
No. of Soil Samples: 3		No. of Core Runs: 0						SM-001-M REV. 1/02		

Connecticut DOT Boring Report										
Driller: T. Soba		Town: Monroe, Connecticut		Hole No.: NB-R-10						
Inspector: P. Nichols		Stat./Offset: 47+60		Project No.: 88170.00						
Engineer: Nobis Engineering		Route No.: Pepper Street		Northing: 684561.14						
Start Date: 05-08-14		Bridge No.: N/A		Easting: 863744.4						
Finish Date: 05-08-14		Surface Elevation: 386								
Project Description: Pepper Street Roadway Re-Alignment										
Casing Size/Type: 3.25"/HSA		Sampler Type/Size: SS/1 3/8"		Core Barrel Type: N/A						
Hammer Wt.: N/A		Fall: N/Ain.		Hammer Wt.: 140		Fall: 30in.				
Groundwater Observations: @Dry										
Depth (ft)	Sample Type/No.	SAMPLES			Generalized Strata Description	Material Description and Notes	Elevation (ft)			
		Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)				RQD %		
0	S-1	21	13	28	28	24	14	PAVEMENT STRUCTURE MISC. FILL	Auger chatter from 0 to 5 feet. S-1: Dense, brown, coarse to fine SAND, little coarse to fine Gravel (incl. broken cobble pieces), little silt, moist	385
	S-2	41	49	45	60	24	16	GLACIAL TILL	S-2: Very dense, brown to white, coarse to fine SAND and coarse to fine GRAVEL (incl. broken cobble pieces), trace Silt, moist	
5	S-3	45	35	33	32	24	14		S-3: Very dense, brown to black to white, coarse to fine SAND, little coarse to fine Gravel (incl. broken cobble pieces), little silt, moist	380
	END OF BORING 7ft									375
10										370
15										
20										
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%										
Total Penetration in Earth: 7ft		Rock: 0ft		NOTES: 1. Augered through approximately 5 inches asphalt. 2. No groundwater observed at the time of exploration. 3. Hole backfilled with drill cuttings after completion.				Sheet 1 of 1		
No. of Soil Samples: 3		No. of Core Runs: 0						SM-001-M REV. 1/02		

Connecticut DOT Boring Report										
Driller: T. Soba		Town: Monroe, Connecticut		Hole No.: NB-R-11						
Inspector: P. Nichols		Stat./Offset: 52+20		Project No.: 88170.00						
Engineer: Nobis Engineering		Route No.: Pepper Street		Northing: 684124.2						
Start Date: 05-07-14		Bridge No.: N/A		Easting: 863633.88						
Finish Date: 05-07-14		Surface Elevation: 384								
Project Description: Pepper Street Roadway Re-Alignment										
Casing Size/Type: 3.25"/HSA		Sampler Type/Size: SS/1 3/8"		Core Barrel Type: N/A						
Hammer Wt.: N/A		Fall: N/Ain.		Hammer Wt.: 140		Fall: 30in.				
Groundwater Observations: @6 after 0 hours, @2.9 after 0.2 hours										
Depth (ft)	Sample Type/No.	SAMPLES			Generalized Strata Description	Material Description and Notes	Elevation (ft)			
		Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)				RQD %		
0	S-1	11	28	24	62	24	12	PAVEMENT STRUCTURE MISC. FILL GRAVELLY SAND	S-1: Very dense, brown, coarse to fine SAND, little medium to fine Gravel, trace Silt, moist S-2: Very dense, white to brown, coarse to fine SAND, some coarse to fine Gravel (incl. broken cobble pieces), little silt, moist	380
	S-2	42	50			8	6			
5	S-3	16	34	75		17	12		Auger chatter from 5 to 10 feet. S-3: Very dense, brown to dark brown, coarse to fine SAND, little coarse to fine Gravel, little silt, wet	375
	S-4	27	24	21	23	24	10		S-4: Dense, brown, coarse to fine SAND, some coarse to fine Gravel, trace Silt, wet	370
10	END OF BORING 12ft									365
15										
20										
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%										
Total Penetration in Earth: 12ft		Rock: 0ft		NOTES: 1. Augered through approximately 5 inches asphalt. 2. Hole backfilled with drill cuttings after completion.				Sheet 1 of 1		
No. of Soil Samples: 4		No. of Core Runs: 0						SM-001-M REV. 1/02		

Connecticut DOT Boring Report										
Driller: T. Soba		Town: Monroe, Connecticut		Hole No.: NB-R-12						
Inspector: P. Nichols		Stat./Offset: 56+40		Project No.: 88170.00						
Engineer: Nobis Engineering		Route No.: Pepper Street		Northing: 683718.07						
Start Date: 05-08-14		Bridge No.: N/A		Easting: 863525.4						
Finish Date: 05-08-14		Surface Elevation: 382								
Project Description: Pepper Street Roadway Re-Alignment										
Casing Size/Type: 3.25"/HSA		Sampler Type/Size: SS/1 3/8"		Core Barrel Type: N/A						
Hammer Wt.: N/A		Fall: N/Ain.		Hammer Wt.: 140		Fall: 30in.				
Groundwater Observations: @6 after 0 hours										
Depth (ft)	Sample Type/No.	SAMPLES			Generalized Strata Description	Material Description and Notes	Elevation (ft)			
		Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)				RQD %		
0	S-1	23	18	10	8	24	10	PAVEMENT STRUCTURE MISC. FILL GLACIAL TILL	S-1: Medium dense, brown to dark brown to white, coarse to fine SAND, little coarse to fine Gravel, little silt, moist	380
	S-2	5	12	50		16	10		S-2: Very dense, brown to dark brown, coarse to fine SAND and coarse to fine GRAVEL (incl. broken cobble pieces), trace Silt, moist Auger chatter from 4 to 5 feet.	
5	S-3	48	36	41	42	24	14		S-3: Very dense, red to brown, coarse to fine SAND, some coarse to fine Gravel (incl. broken cobble pieces), little silt, wet	375
	END OF BORING 7ft									370
10										365
15										
20										
Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%										
Total Penetration in Earth: 7ft		Rock: 0ft		NOTES: 1. Augered through approximately 10 inches asphalt. 2. Hole backfilled with drill cuttings after completion.				Sheet 1 of 1		
No. of Soil Samples: 3		No. of Core Runs: 0						SM-001-M REV. 1/02		



ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING

355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS

No.	Date	DESCRIPTION
1.	10/09/2014	ADDRESSED TOWN ENGINEERS COMMENTS

Surveyed	JP
Drawn	AV
Checked	MG
Approved	RHR
Scale	1"=20'
Project No.	12C4326
Date	8/5/2014
Field Book	491
CAD File:	EX12C432601

Title
**RIGHT OF WAY/
TOPOGRAPHIC
SURVEY**

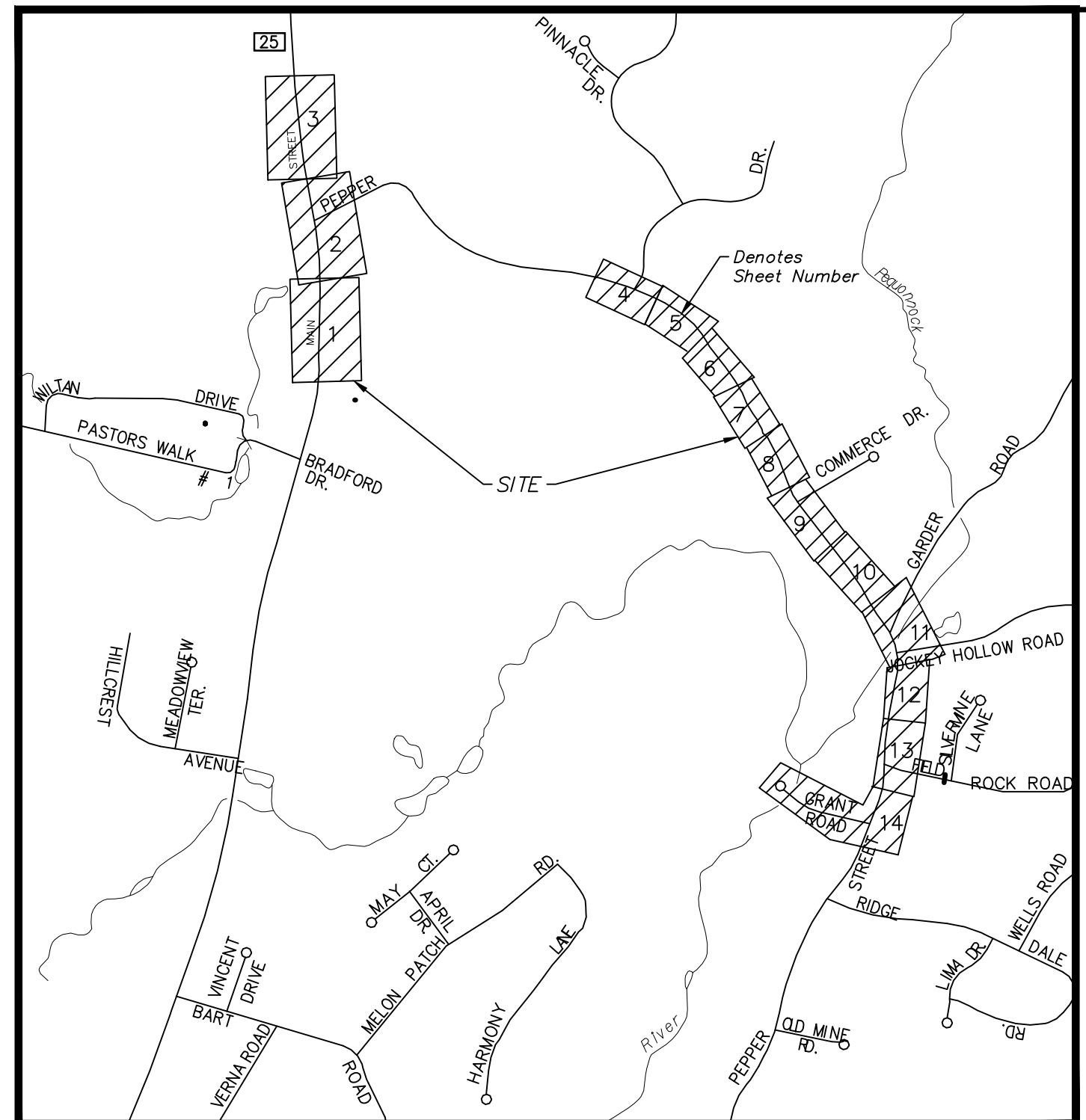
Sheet No. 1 OF 14

EX-1

Xref (G) : X12C432601 ; B012C432602 Survey

MAP REFERENCES

- A. "MAP OF LOTS ON PROPERTY OF ROBERT H. LEWIS JR. & JACOB J. TUFANO, MONROE, CONN.", SCALE 1"=40', DATE 7/19/57, PREPARED BY RICHARD J. NOWAKOWSKI, SHELTON, CONNECTICUT AND FILED AS MAP #24 IN THE TOWN OF MONROE CLERK'S OFFICE.
- B. "SECTION ONE, GRANT ESTATES, OWNED & DEVELOPED BY DARRIN MORGAN GRANT, MONROE, CONN.", SCALE 1"=50', DATE 6/16/62, REVISED THRU 10/22/62, PREPARED BY RICHARD J. NOWAKOWSKI, SHELTON, CONNECTICUT AND FILED AS MAP #853 IN THE TOWN OF MONROE CLERK'S OFFICE.
- C. "REVISION OF SECTION TWO GRANT ESTATES, MONROE, CONNECTICUT", SCALE 1"=50', 10/2/72, PREPARED BY FULLER & CO. INC., BRIDGEPORT, CONNECTICUT AND FILED AS MAP #1093 IN THE TOWN OF MONROE CLERK'S OFFICE.
- D. "LOT NO. 1 REVISED INDUSTRIAL PARK ZONE, PEPPER STREET, MONROE, CONNECTICUT, FOR P & J REALTY, INC. 15 HAWTHORNE DRIVE, MONROE, CONNECTICUT", SCALE 1"=60', DATE 11/15/72, REVISED THRU 1/9/73, PREPARED BY FULLER & CO. INC., BRIDGEPORT, CONNECTICUT AND FILED AS MAP #1113 IN THE TOWN OF MONROE CLERK'S OFFICE.
- E. "PLOT PLAN OF PROPERTY IN MONROE, CONNECTICUT, FOR CONN. PRECAST CONCRETE CORP.", SCALE 1"=20', DATE 3/17/1977, SHEET 2 OF 2, PREPARED BY FULLER & CO. INC., BRIDGEPORT, CONNECTICUT AND FILED AS MAP #1309 IN THE TOWN OF MONROE CLERK'S OFFICE.
- F. "THE CONNECTICUT LIGHT AND POWER COMPANY, GAS EASEMENT AREA ON THE PROPERTY OF CONN. PRECAST CONCRETE CORP., TOWN OF MONROE", SCALE 1"=20', DATE 3/28/78, FILED AS MAP #1355 IN THE TOWN OF MONROE CLERK'S OFFICE.
- G. "SUBDIVISION FOR THE ESTATE OF ANDREW J. WRABEL, MONROE, CONNECTICUT", SCALE 1"=50', DATE 12/14/77, PREPARED BY THE HUNTINGTON COMPANY, FAIRFIELD, CONNECTICUT AND FILED AS MAP #1358 IN THE TOWN OF MONROE CLERK'S OFFICE.
- H. "FINAL SUBDIVISION FOR MICHAEL INFANTE, MONROE, CONNECTICUT", SCALE 1"=50', DATE 12/21/77, REVISED THRU 5/23/78, PREPARED BY FULLER & CO. INC., BRIDGEPORT, CONNECTICUT AND FILED AS MAP #1359 IN THE TOWN OF MONROE CLERK'S OFFICE.
- I. "SUBDIVISION PLAN, OF PROPERTY LOCATED ON MAIN STREET (RTE. 25) & PEPPER STREET, MONROE, CONNECTICUT, PREPARED FOR GOLD-KEY BUILDERS, INC.", SCALE 1"=50', DATE 11/13/78, PREPARED BY J & D KASPER & ASSOCIATES, BRIDGEPORT, CONNECTICUT AND FILED AS MAP #1405 IN THE TOWN OF MONROE CLERK'S OFFICE.
- J. "PLOT PLAN OF PROPERTY L. GRAHAM PATMORE, MAIN ST. (RTE 25) MONROE, CONN. TO BE CONVEYED TO STEPNY VOLUNTEER FIRE DEPT., INC.", SCALE 1"=40', DATE 6/5/79, PREPARED BY J & D KASPER & ASSOCIATES, BRIDGEPORT, CONNECTICUT AND FILED AS MAP #1422 IN THE TOWN OF MONROE CLERK'S OFFICE.
- K. "PLOT PLAN, LOT NO. 2, PEPPER STREET, MONROE, CONNECTICUT, PREPARED FOR PROUDFOOT COMPANY, INC.", SCALE 1"=40', DATE 1/9/80, PREPARED BY J & D KASPER & ASSOCIATES, BRIDGEPORT, CONNECTICUT AND FILED AS MAP #1466 IN THE TOWN OF MONROE CLERK'S OFFICE.
- L. "PLAN SHOWING PARTITION OF JOHN W. WRABEL ESTATE, PROPERTY, MONROE, CONN.", SCALE 1"=100', DATE 7/14/70, PREPARED BY FULLER & CO. INC., BRIDGEPORT, CONNECTICUT AND FILED AS MAP #1504 IN THE TOWN OF MONROE CLERK'S OFFICE.
- M. "BOUNDARY MAP OF PROPERTY P&M REALTY, INC., PEPPER STREET, MONROE, CONN., PREPARED FOR TRUMBULL CONSTRUCTION CO., INC.", SCALE 1"=50', DATE 4/20/81, PREPARED BY LAND ENGINEERING, SHELTON, CONNECTICUT AND FILED AS MAP #1547 IN THE TOWN OF MONROE CLERK'S OFFICE.
- N. "MAP OF LAND TO BE CONVEYED TO CHARLES & FRED A. EDGERTON, NEWTOWN, CT", SCALE 1"=50', DATE 1/15/85, PREPARED BY J & D KASPER & ASSOCIATES, BRIDGEPORT, CONNECTICUT AND FILED AS MAP #1771 IN THE TOWN OF MONROE CLERK'S OFFICE.
- O. "MAP SHOWING SURVEY OF LAND IN MONROE, CONNECTICUT, PREPARED FOR JANS CONSTRUCTION CO.", SCALE 1"=100', DATE 3/31/84, PREPARED BY SPATH-BJORKLUND ASSOCIATES, INC. MONROE, CONNECTICUT AND FILED AS MAP #1829 IN THE TOWN OF MONROE CLERK'S OFFICE.
- P. "MAP SHOWING SURVEY OF LAND IN MONROE, CONNECTICUT, PREPARED FOR JANS CONSTRUCTION CO.", SCALE 1"=50', DATE 3/31/84, PREPARED BY SPATH-BJORKLUND ASSOCIATES, INC. MONROE, CONNECTICUT AND FILED AS MAP #1830 IN THE TOWN OF MONROE CLERK'S OFFICE.
- Q. "PROPERTY DIVISION MAP OF 900 MAIN STREET, MONROE, CONNECTICUT, PREPARED FOR C.D.T. INDUSTRIES", SCALE 1"=50', DATE 10/4/85, PREPARED BY ANDREAS C. SCHULL, WEST HAVEN, CONNECTICUT AND FILED AS MAP #1863 IN THE TOWN OF MONROE CLERK'S OFFICE.
- R. "A SUBDIVISION OF LAND IN MONROE, CONNECTICUT, PREPARED FOR FIELD RIDGE ESTATES", SCALE 1"=100', DATE 3/15/86, PREPARED BY SPATH-BJORKLUND ASSOCIATES, INC. MONROE, CONNECTICUT AND FILED AS MAP #1891 IN THE TOWN OF MONROE CLERK'S OFFICE.
- S. "PROPERTY DIVISION MAP FOR 900 MAIN STREET, MAIN STREET & PEPPER STREET, MONROE, CONNECTICUT", SCALE 1"=100', DATE 4/1/86, PREPARED BY LAND ENGINEERING & SURVEYING, LLC, MONROE, CONNECTICUT AND FILED AS MAP #1961 IN THE TOWN OF MONROE CLERK'S OFFICE.
- T. "LAND TRANSFER MAP, SITUATE MAIN STREET, MONROE, CONNECTICUT, PREPARED FOR JAMES GAREMELLA", SCALE 1"=60', DATE 9/5/87, PREPARED BY LAND ENGINEERING & SURVEYING, LLC, MONROE, CONNECTICUT AND FILED AS MAP #2007 IN THE TOWN OF MONROE CLERK'S OFFICE.
- U. "SUBDIVISION MAP FOR MONROE CORPORATE PARK, PREPARED FOR YANKEE HILL, INC., MAIN STREET, RTE 25, MONROE, CONNECTICUT", SCALE 1"=100', DATE 7/9/87, PREPARED BY NOWAKOWSKI, OBYMACHOW & KANE, ENGINEERING & SURVEYING, SHELTON, CT AND FILED AS MAP #2041 IN THE TOWN OF MONROE CLERK'S OFFICE.
- V. "SURVEY OF PROPERTY, PREPARED FOR YANKEE HILL, INC. SITUATE 884 MAIN STREET, MONROE, CONNECTICUT", SCALE 1"=20', DATE 8/29/88, PREPARED BY LAND ENGINEERING ASSOCIATES, INC. MONROE, CONNECTICUT AND FILED AS MAP #2123 IN THE TOWN OF MONROE CLERK'S OFFICE.
- W. "REVISED RESUBDIVISION MAP OF NORTH 25 INDUSTRIAL PARK, PREPARED FOR PAY DAY ENTERPRISES, SITUATE 837 MAIN STREET, CT., ROUTE #25, MONROE, CONNECTICUT", SCALE 1"=100', DATE 2/9/90, PREPARED BY LAND ENGINEERING & SURVEYING, SHELTON, CT AND FILED AS MAP #2041 IN THE TOWN OF MONROE CLERK'S OFFICE.
- X. "MAP OF CAPITOL AVENUE INDUSTRIAL PARK, A NONRESIDENTIAL CONDOMINIUM IN MONROE, CT, DECLARED BY: THE CAPITOL AVENUE CONSTRUCTION COMPANY", SCALE 1"=40', DATE 6/4/92, PREPARED BY FULLER & CO. INC., BRIDGEPORT, CONNECTICUT AND FILED AS MAP #2336 IN THE TOWN OF MONROE CLERK'S OFFICE.
- Y. "SHEET TWO OF THREE & SHEET THREE OF THREE, BASELINE SURVEY, FORMER RAILROAD RIGHT OF WAY, PURDY HILL ROAD TO NEWTOWN TOWN LINE, MONROE, CONNECTICUT, PREPARED FOR TOWN OF MONROE", SCALE 1"=100', DATE 3/31/94, PREPARED BY SPATH-BJORKLUND ASSOCIATES, INC. MONROE, CONNECTICUT AND FILED AS MAP #2457,2458 IN THE TOWN OF MONROE CLERK'S OFFICE.
- Z. "RESUBDIVISION OF LAND, FOR PROPERTY LOCATED ON PEPPER STREET & GARDER ROAD, MONROE, CONNECTICUT, PREPARED FOR JOHN E. WRABEL JR., SCALE 1"=40', DATE 11/19/89, PREPARED BY SPATH-BJORKLUND ASSOCIATES, INC. MONROE, CONNECTICUT AND FILED AS MAP #2496 IN THE TOWN OF MONROE CLERK'S OFFICE.
- AA. "PROPERTY TRANSFER MAP FOR 437 PEPPER STREET, MONROE, CONNECTICUT, PREPARED FOR STEVE M. KIDNEY", SCALE 1"=20', DATE 2/16/98, PREPARED BY FULLER & CO. INC., BRIDGEPORT, CONNECTICUT AND FILED AS MAP #2539 IN THE TOWN OF MONROE CLERK'S OFFICE.
- BB. "HOUSATONIC RAIL BED BIKEWAY, MAP SHOWING AREA OF CONDEMNATION, LOT 11, #22 GRANT ROAD, MONROE, CONNECTICUT", SCALE 1"=40', DATE 10/6/95, PREPARED BY SPATH-BJORKLUND ASSOCIATES, INC. MONROE, CONNECTICUT AND FILED AS MAP #2544 IN THE TOWN OF MONROE CLERK'S OFFICE.
- CC. "PROPERTY SURVEY, #501 PEPPER STREET, MONROE, CONNECTICUT", SCALE 1"=30', DATE 2/6/98, PREPARED BY SPATH-BJORKLUND ASSOCIATES, INC. MONROE, CONNECTICUT AND FILED AS MAP #2671 IN THE TOWN OF MONROE CLERK'S OFFICE.
- DD. "AS-BUILT, PLAN OF PROPERTY FOR M.T. HOMES INC., MONROE, CONNECTICUT", SCALE 1"=40', DATE 2/17/98, PREPARED BY D'AMICO ASSOCIATES, OXFORD, CONNECTICUT AND FILED AS MAP #2571 IN THE TOWN OF MONROE CLERK'S OFFICE.
- EE. "AS-BUILT, PLAN OF PROPERTY FOR M.T. HOMES INC., MONROE, CONNECTICUT", SCALE 1"=40', DATE 2/17/98, REVISED THRU 5/28/98, PREPARED BY D'AMICO ASSOCIATES, OXFORD, CONNECTICUT AND FILED AS MAP #2572 IN THE TOWN OF MONROE CLERK'S OFFICE.
- FF. "SUBDIVISION MAP, MAP SHOWING SUBDIVISION OF LAND, PREPARED FOR CAMBRIDGE INVESTMENTS, LLC, PEPPER STREET, MONROE, CONNECTICUT", SCALE 1"=100', DATE 6/9/04, REVISED THRU 12/21/04, SHEET 1 OF 4, PREPARED BY SPATH-BJORKLUND ASSOCIATES, INC. MONROE, CONNECTICUT AND FILED AS MAP #2858 IN THE TOWN OF MONROE CLERK'S OFFICE.
- GG. "PROPERTY LINE REVISION MAP, LOT 10, MAP OF GRANT ESTATES, MONROE, CT., PREPARED FOR A.&K. FTERGIOTIS AND TOWN OF MONROE, CT.", SCALE 1"=30', DATE 9/28/98, PREPARED BY FULLER & CO. INC., BRIDGEPORT, CONNECTICUT AND FILED AS MAP #2601 IN THE TOWN OF MONROE CLERK'S OFFICE.
- HH. "PROPERTY SURVEY, PREPARED FOR FORD STORAGE MONROE, LLC, MAIN STREET (CONN. ROUTE #25), MONROE, CONNECTICUT", SCALE 1"=60', DATE 10/25/01, PREPARED BY BERKSHIRE ENGINEERING & SURVEYING, LLC, LITCHFIELD, CONNECTICUT AND FILED AS MAP #2743 IN THE TOWN OF MONROE CLERK'S OFFICE.
- II. "ALTA/ACSM LAND TITLE SURVEY, PREPARED FOR MONROE LAND HOLDINGS, LLC, PEPPER STREET, MONROE & NEWTOWN, CONNECTICUT", SCALE 1"=200', DATE 1/7/2002, SHEET 1 OF 2, PREPARED BY SPATH-BJORKLUND ASSOCIATES, INC. MONROE, CONNECTICUT AND FILED AS MAP #2789A IN THE TOWN OF MONROE CLERK'S OFFICE.
- JJ. "PROPERTY SURVEY, DEPICTING A DIVISION OF LAND, PREPARED FOR CAMBRIDGE INVESTMENTS, LLC, #512 PEPPER STREET, MONROE/NEWTOWN, CONNECTICUT", SCALE 1"=200', DATE 4/21/04, PREPARED BY SPATH-BJORKLUND ASSOCIATES, INC. MONROE, CONNECTICUT AND FILED AS MAP #2821 IN THE TOWN OF MONROE CLERK'S OFFICE.
- KK. "PROPERTY SURVEY, DEPICTING A DIVISION OF LAND, PREPARED FOR 490 PEPPER STREET, MONROE, CONNECTICUT", SCALE 1"=50', DATE 6/9/04, PREPARED BY SPATH-BJORKLUND ASSOCIATES, INC. MONROE, CONNECTICUT AND FILED AS MAP #2843 IN THE TOWN OF MONROE CLERK'S OFFICE.
- LL. "DATA ACCUMULATION PLAN DEPICTING A LOT LINE REVISION, PREPARED FOR CAMBRIDGE INVESTMENTS, LLC, PEPPER STREET, MONROE, CONNECTICUT", SCALE 1"=100', DATE 12/9/05, PREPARED BY SPATH-BJORKLUND ASSOCIATES, INC. MONROE, CONNECTICUT AND FILED AS MAP #2905 IN THE TOWN OF MONROE CLERK'S OFFICE.
- MM. "PROPERTY SURVEY, PREPARED FOR ERIC & SUSAN ERICKSON, MONROE, CONNECTICUT", SCALE 1"=30', DATE 3/20/2003, REVISED THRU 7/9/2003, PREPARED BY JOHN M. FARNSWORTH & ASSOCIATES P.C., NEW MILFORD, CONNECTICUT AND FILED AS MAP #2974 IN THE TOWN OF MONROE CLERK'S OFFICE.
- NN. "DATA ACCUMULATION PLAN DEPICTING A LOT LINE REVISION, PREPARED FOR ERIC & SUSAN ERICKSON, 453 & 459 PEPPER STREET, MONROE, CONNECTICUT", SCALE 1"=40', DATE 4/9/2009, PREPARED BY SPATH-BJORKLUND ASSOCIATES, INC. MONROE, CONNECTICUT AND FILED AS MAP #3047 IN THE TOWN OF MONROE CLERK'S OFFICE.
- OO. "ZONE CHANGE PLAN, PROPERTY AT 846 MAIN STREET, MONROE, CONNECTICUT, PREPARED FOR STEVE DOMIZIO", SCALE 1"=40', DATE 2/1/13, REVISED THRU 11/11/13, SHEET 1 OF 5, PREPARED BY LAND ENGINEERING & SURVEYING, LLC, MONROE, CONNECTICUT AND FILED AS MAP #3103 IN THE TOWN OF MONROE CLERK'S OFFICE.
- PP. "RIGHT OF MAP, TOWN OF MONROE, BRIDGEPORT-NEWTOWN ROAD, FROM NEWTOWN TOWN LINE SOUTHERLY ABOUT 5,200 FEET, ROUTE NO. 122", SCALE 1"=40', DATE 2/29/1932, SHEET 1 & 2, PREPARED BY CONNECTICUT DEPARTMENT OF TRANSPORTATION, PROJECT NO. 84-02.
- QQ. "PROPERTY SURVEY MAP, TOWN OF MONROE, MAP SHOWING LAND ACQUIRED FROM S. KENNETH DINARDO, TRUSTEE, BY THE STATE OF CONNECTICUT, DEPARTMENT OF TRANSPORTATION, MAIN STREET (CT STATE ROAD NO. 25)", SCALE 1"=40', DATE 9/13/99, REVISED THRU 7/26/02, PREPARED BY CONNECTICUT DEPARTMENT OF TRANSPORTATION, PROJECT NO. 84-000.



LOCATION MAP
SCALE: 1"=1000'

N/F
837 Main Street Corporation
Vol. 411 Pg. 293
Assessor's Map 103, Lot 1.6

N/F
The Stepnay Volunteer Fire Company No. 1
Vol. 225 Pg. 292
Assessor's Map 93, Lot 39

N/F
837 Main Street Corporation
Vol. 411 Pg. 293
Assessor's Map 103, Lot 1.6

N/F
S. Kenneth D'Nardo, Trustee
Vol. 650 Pg. 106
Assessor's Map 103, Lot 1.5

N/F
Charles & Freda Edgerton
Vol. 280 Pg. 130
Assessor's Map 93, Lot 48

N/F
FARA, LLC
Vol. 1303 Pg. 302
Assessor's Map 93, Lot 47

N/F
Susan J. Rotella
Vol. 1515 Pg. 144
Assessor's Map 93, Lot 46

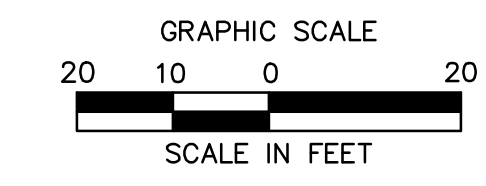
N/F
Marzac Holdings, LLC
Vol. 1775 Pg. 216
Assessor's Map 93, Lot 45

N/F
Louis J. Harvath & Beatrice H. Harvath
Vol. 423 Pg. 284
Assessor's Map 93, Lot 44

N/F
Jack C. Mendes & Maria F.A. Mendes
Vol. 1249 Pg. 233
Assessor's Map 93, Lot 43

GENERAL NOTES

1. A) SHEETS 1-14 HAVE BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.
- B) SHEETS 1-14 CONFORM TO HORIZONTAL ACCURACY CLASS A-2 WITH RESPECT TO TRAVERSE BASELINE AND STREET RIGHT OF WAY LINES. EXCEPT FOR STREET RIGHT OF WAY LINES DENOTED AS APPROXIMATE. APPROXIMATE STREET RIGHT OF WAY LINES CONFORM TO HORIZONTAL ACCURACY CLASS D. WHERE APPROXIMATE STREET RIGHT OF WAY LINES ARE DEPICTED, 25 FEET WAS HELD OFF CENTERLINE OF EXISTING ROADWAY OR PLACED BASED ON GEOMETRY OF RECORD MAPPING. THESE SHEETS CONFORM TO TOPOGRAPHIC ACCURACY OF CLASS 1-2.
- C) BOUNDARY DETERMINATION OF THE STREET LINES AND HIGHWAY LINES ARE BASED UPON A RESURVEY. PROPERTY BOUNDARY LINES DEPICTED HAVE BEEN COMPILED FROM RECORD INFORMATION.
- D) THE TYPE OF SURVEY PERFORMED IS A RIGHT OF WAY AND TOPOGRAPHIC SURVEY AND IS INTENDED TO DEPICT THE EXISTING CONDITIONS WITH RESPECT TO THE PROJECT LIMITS.
2. NORTH ARROW AND BEARINGS REFER TO THE CONNECTICUT STATE PLANE COORDINATE SYSTEM (CT NAD 83) AND ARE BASED ON GPS OBSERVATIONS BY BL COMPANIES IN JULY 2014.
3. ELEVATIONS REFER TO NAVD 88 DATUM AND ARE BASED ON GPS OBSERVATIONS BY BL COMPANIES IN JULY 2014.
4. WETLANDS DEPICTED HEREON WERE DELINEATED AND FIELD LOCATED BY BL COMPANIES DURING MAY 2014. FIELD LOCATIONS OF WETLAND ZONES WERE ACCURATELY LOCATED WITH MAPPING GRADE GPS.
5. PORTIONS OF THE PROJECT IS LOCATED IN FEMA ZONE A, ZONE AE FLOODWAY, AND ZONE X AS DEPICTED ON FIRM COMMUNITY PANEL NO. 090009 0278 F PANEL 278 OF 626 EFFECTIVE DATE: JUNE 18, 2010.
6. THE UNDERGROUND UTILITIES DEPICTED HAVE BEEN PLOTTED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES DEPICTED COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES DEPICTED ARE IN THE EXACT LOCATION INDICATED THOUGH THEY ARE PLOTTED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY EXPOSED THE UNDERGROUND UTILITIES. PER CONNECTICUT STATE LAW THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF EXCAVATION. CALL BEFORE YOU DIG 1-800-922-4455.
7. INVERTS SHOWN WITH * HAVE BEEN COMPILED FROM RECORD MAPPING.



TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON.

ROBERT H. ROPER L.S. #18469

NO CERTIFICATION IS EXPRESSED OR IMPLIED UNLESS THIS MAP BEARS THE ORIGINAL SIGNATURE AND EMBOSSED SEAL OF THE ABOVE NAMED LAND SURVEYOR.

SHEETS 1-14 SHOULD BE CONSIDERED PART OF THIS SURVEY.

Jun 26, 2014 11:18am C:\Users\g_v\Documents\G_V\0812\1201\1204326\DWG\EX12C432601.dwg
 Output: EX-1 24x36 2014
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MATCHLINE SEE SHEET EX-2

REVISIONS	Date	ADDRESSED TOWN ENGINEERS COMMENTS
1.	10/26/2014	

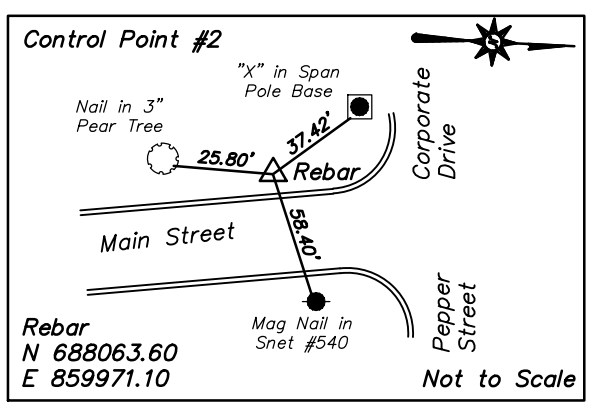
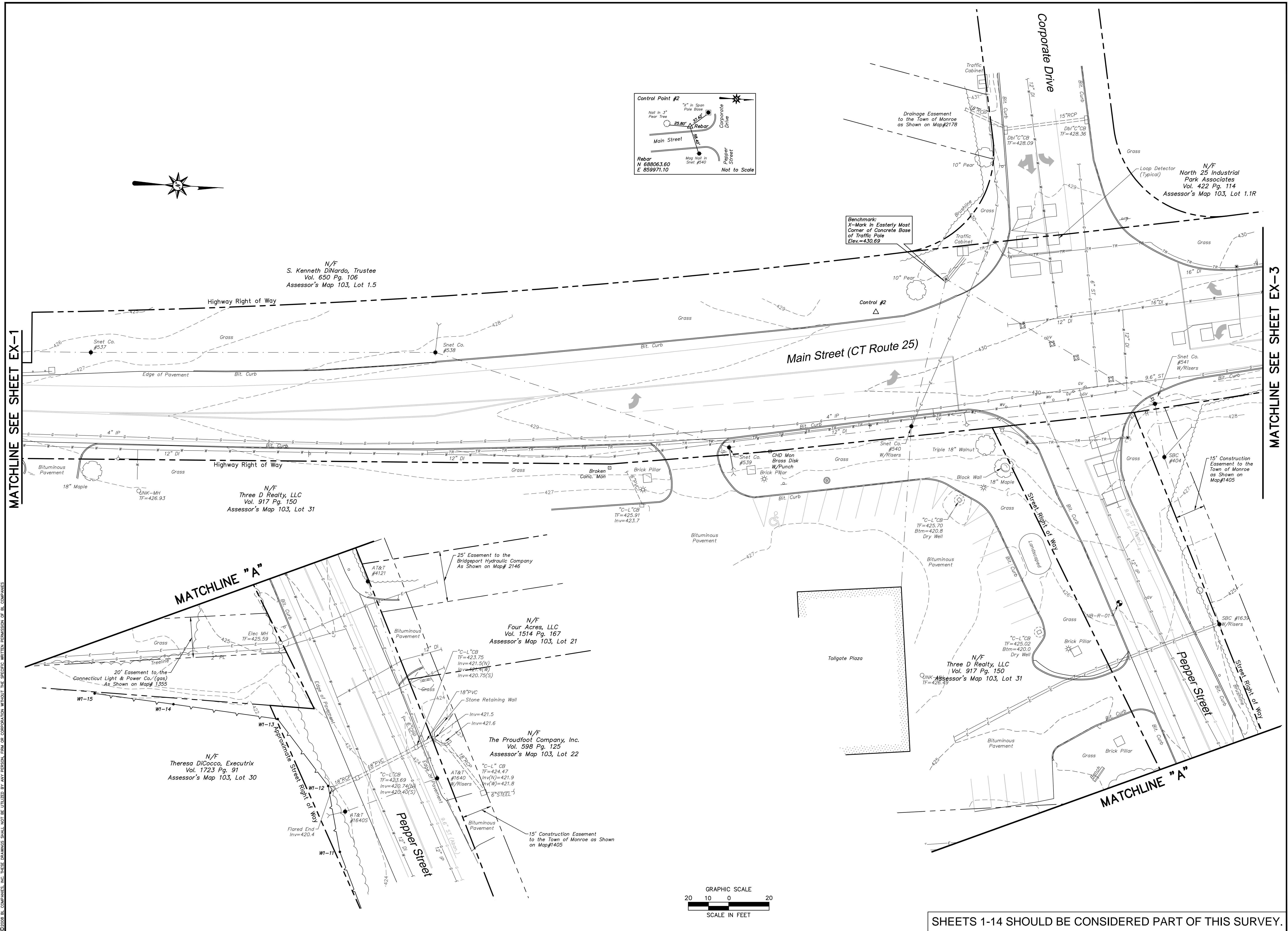
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Drawn	AV
Checked	MG
Approved	RHR
Scale	1"=20'
Project No.	12C4326
Date	8/5/2014
Field Book	491

CAD File:
EX12C432601

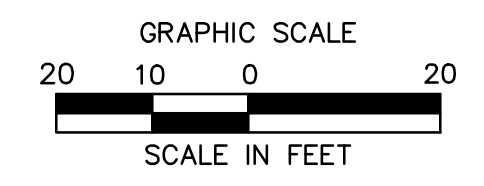
Title
RIGHT OF WAY/
TOPOGRAPHIC
SURVEY

Sheet No. 2 OF 14

EX-2



Benchmark
X-Mark in Easterly Most
Corner of Concrete Base
of Traffic Pole
Elev.=430.69



SHEETS 1-14 SHOULD BE CONSIDERED PART OF THIS SURVEY.

Jun 26, 2014, 11:38am, C:\Users\jg\Documents\12C4326\DWG\EX12C432601.dwg
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Xref (s) : XY12C432601 ; BD12C432602 Survey

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

REVISIONS
No. Date 10/29/2014 ADDRESSED TOWN ENGINEERS COMMENTS

1. 10/29/2014
Surveyed J.P.
Drawn AV
Checked MG
Approved RHR
Scale 1"=20'
Project No. 12C4326
Date 8/5/2014
Field Book 491

CAD File: EX12C432601
Title
**RIGHT OF WAY/
TOPOGRAPHIC
SURVEY**

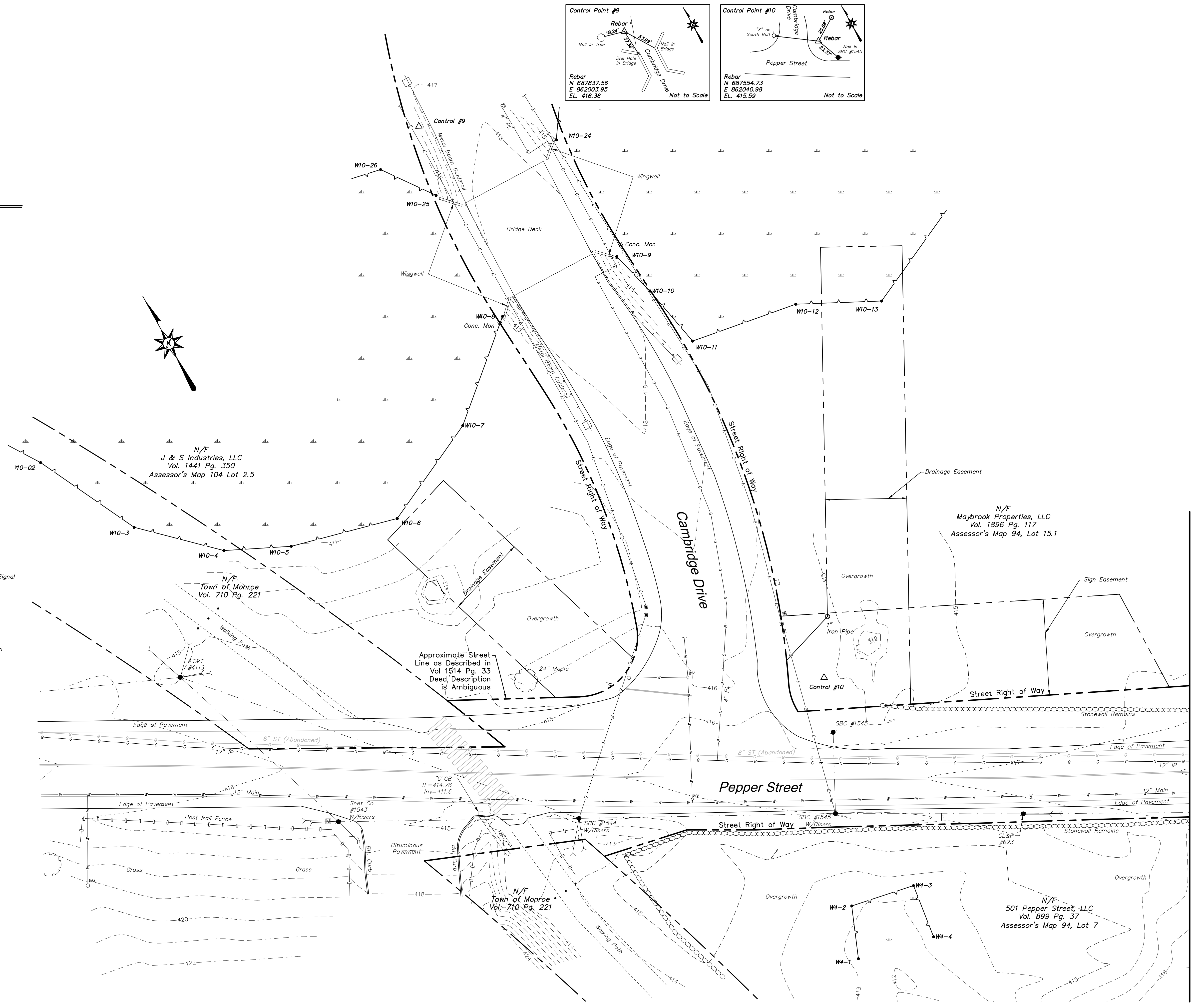
Sheet No. 4 OF 14

EX-4

Xref (b) : XY12C432601 ; BD12C432602 Survey

LEGEND

- Street/Highway Right of Way
- - - - - Approximate Street/Highway Right of Way
- Abutters Boundary Line
- Easement Line
- Edge of Water
- Limit of Wetlands
- Wetlands/Marsh
- Treeline
- Brushline
- 50' Major Contour
- Minor Contour
- Stone Wall
- Retaining Wall
- Guide Rail
- Stockade Fence
- Post Rail Fence
- Overhead Wires
- Underground Electric Line
- Gas Line
- Sanitary Sewer
- Storm Sewer
- Underground Telecommunications Line
- Level 3 (Civil Defense) Telecommunications Line
- TR --- Underground Traffic Signal Cable
- W --- Water Line
- UNK --- Underground Utility - Type Unknown
- WAC --- Automated Vacuum-assisted Collection System Line
- Utility Line Continues
- Utility Line Ends
- Handhole
- Electric Meter
- Utility Pole
- Utility Pole w/ Light
- Guy Wire
- Guy Pole
- Light Pole
- Ballad Light
- Flood Light
- Gas Valve
- Gas Valve Box
- Gas Test Station
- Cleanout
- Catch Basin
- Double Type I Catch Basin
- Double Type II Catch Basin
- Manhole
- Small Drain
- Roof Drain
- Span Pole
- Cantilever Pole
- Pedestal-mounted Traffic Signal
- Pedestrian Signal
- Fire Hydrant
- Water Valve
- Water Meter
- Water Well
- Valve - Utility Type Unknown
- Sign
- Mail Box
- Monitoring Well
- Boring
- Shrub
- Deciduous Tree
- Coniferous Tree



MATCHLINE SEE SHEET EX-5

SHEETS 1-14 SHOULD BE CONSIDERED PART OF THIS SURVEY.

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Xref (b) : XY12C432601 ; BD12C432602 Survey

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REVISIONS	Date	Addressed Town Engineers Comments
No. 1	10/26/2014	ADDED TO ADDRESS COMMENTS

Surveyed	JP
Drawn	AV
Checked	MG
Approved	RHR
Scale	1"=20'
Project No.	12C4326
Date	8/5/2014
Field Book	491
CAD File:	EX12C432601

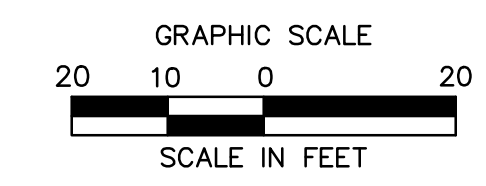
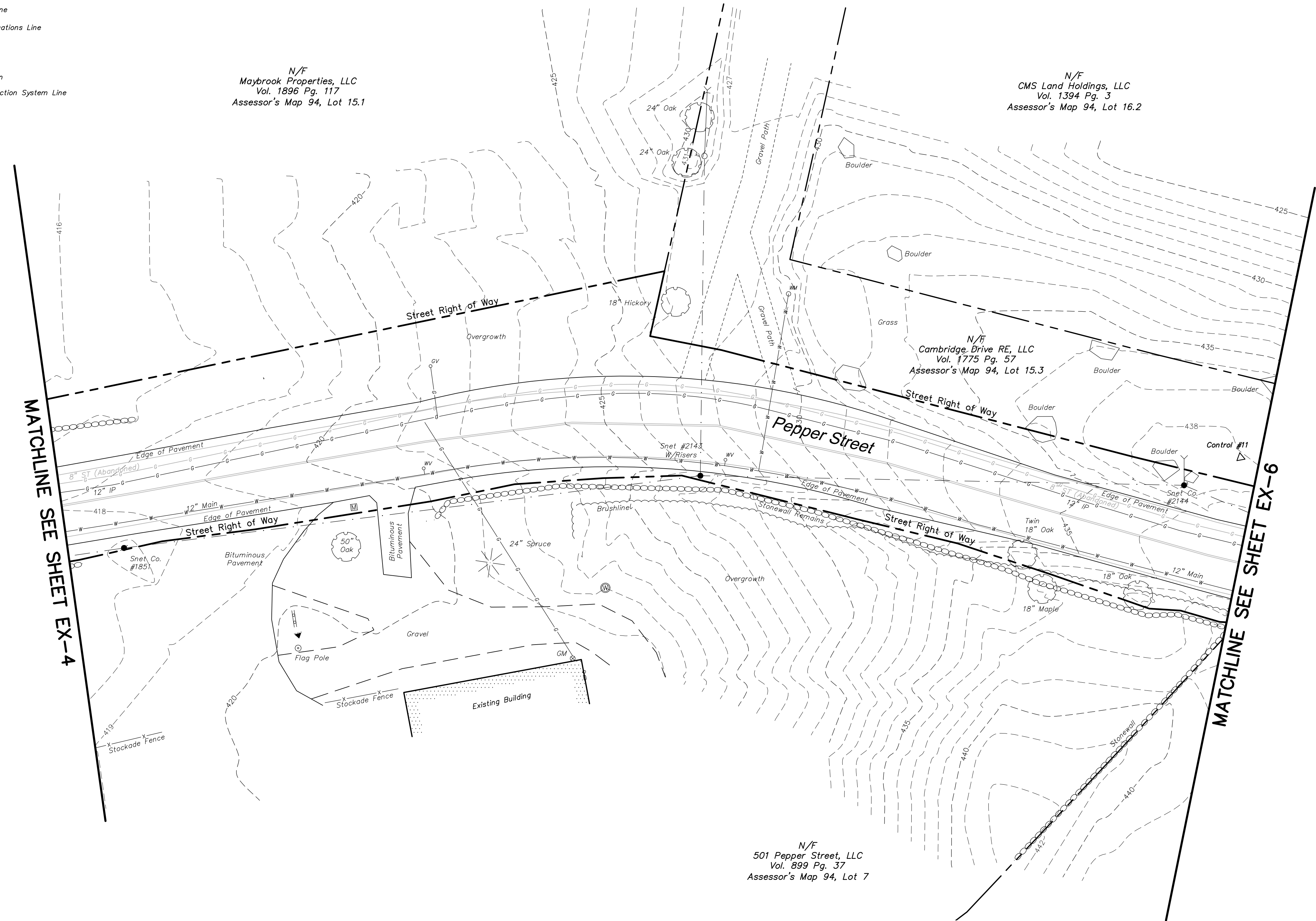
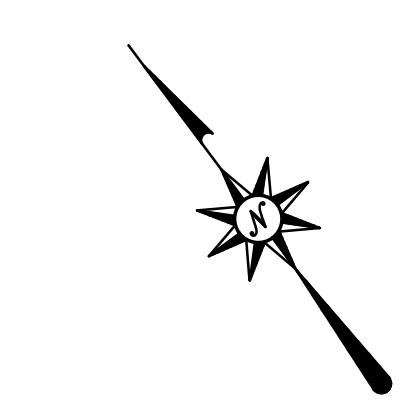
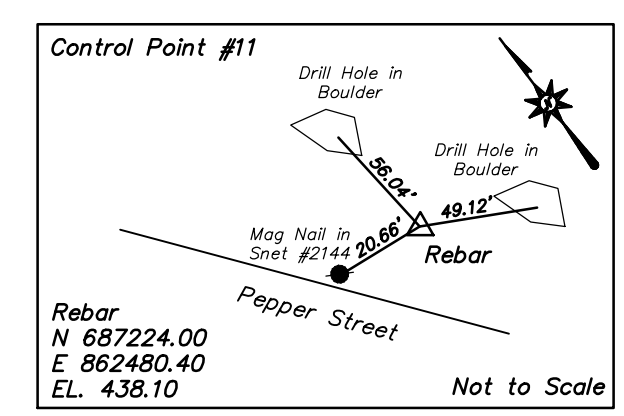
Title
RIGHT OF WAY/
TOPOGRAPHIC
SURVEY

Sheet No. 5 OF 14

EX-5

LEGEND

- Street/Highway Right of Way
- Approximate Street/Highway Right of Way
- Abutters Boundary Line
- Easement Line
- Edge of Water
- Limit of Wetlands
- Wetlands/Marsh
- Treeline
- Brushline
- Major Contour
- Minor Contour
- Stone Wall
- Retaining Wall
- Guide Rail
- Stockade Fence
- Post Rail Fence
- Overhead Wires
- Underground Electric Line
- Gas Line
- Sanitary Sewer
- Storm Sewer
- Underground Telecommunications Line
- Level3 (Civil Defense) Telecommunications Line
- Underground Traffic Signal Cable
- Water Line
- Underground Utility - Type Unknown
- Automated Vacuum-assisted Collection System Line
- Utility Line Continues
- Utility Line Ends
- Handhole
- Electric Meter
- Utility Pole
- Utility Pole w/ Light
- Guy Wire
- Guy Pole
- Light Pole
- Bollard Light
- Flood Light
- Gas Valve
- Gas Valve Box
- Gas Test Station
- Cleanout
- Catch Basin
- Double Type I Catch Basin
- Double Type II Catch Basin
- Manhole
- Small Drain
- Roof Drain
- Span Pole
- Cantilever Pole
- Pedestal-mounted Traffic Signal
- Pedestrian Signal
- Fire Hydrant
- Water Valve
- Water Meter
- Water Well
- Valve - Utility Type Unknown
- Sign
- Mail Box
- Monitoring Well
- Boring
- Shrub
- Deciduous Tree
- Coniferous Tree



SHEETS 1-14 SHOULD BE CONSIDERED PART OF THIS SURVEY.

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12C4326-5 24x36 2014

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Xref (s) : X12C432601 ; B012C432602 Survey

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

REVISIONS

No.	Date	DESCRIPTION
1.	10/29/2014	ADDRESSED TOWN ENGINEERS COMMENTS

Surveyed	JP
Drawn	AV
Checked	MG
Approved	RHR
Scale	1"=20'
Project No.	12C4326
Date	8/5/2014
Field Book	491
CAD File:	EX12C432601

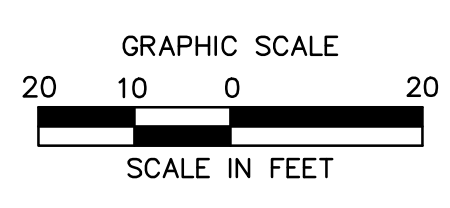
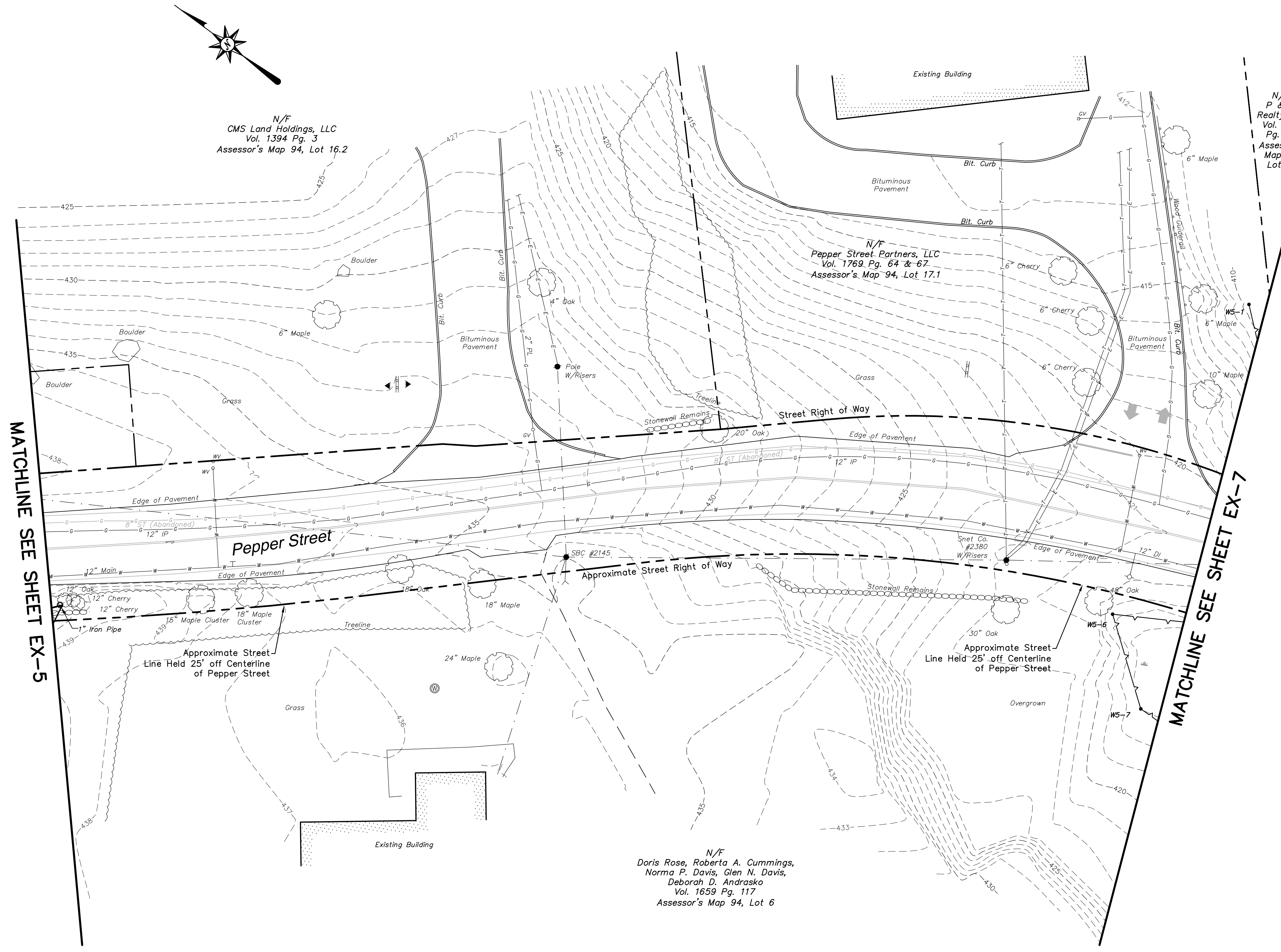
Title
**RIGHT OF WAY/
TOPOGRAPHIC
SURVEY**

Sheet No. 6 OF 14

EX-6

LEGEND

- Street/Highway Right of Way
- Approximate Street/Highway Right of Way
- Abutters Boundary Line
- Easement Line
- Edge of Water
- Limit of Wetlands
- Wetlands/Marsh
- Treeline
- Brushline
- Major Contour
- Minor Contour
- Stone Wall
- Retaining Wall
- Guide Rail
- Stockade Fence
- Post Rail Fence
- Overhead Wires
- Underground Electric Line
- Gas Line
- Sanitary Sewer
- Storm Sewer
- Underground Telecommunications Line
- Level3 (Civil Defense) Telecommunications Line
- Underground Traffic Signal Cable
- Water Line
- Underground Utility - Type Unknown
- Automated Vacuum-assisted Collection System Line
- Utility Line Continues
- Utility Line Ends
- Handhole
- Electric Meter
- Utility Pole
- Utility Pole w/ Light
- Guy Wire
- Guy Pole
- Light Pole
- Ballard Light
- Flood Light
- Gas Valve
- Gas Valve Box
- Gas Test Station
- Cleanout
- Catch Basin
- Double Type I Catch Basin
- Double Type II Catch Basin
- Manhole
- Small Drain
- Roof Drain
- Span Pole
- Cantilever Pole
- Pedestal-mounted Traffic Signal
- Pedestrian Signal
- Fire Hydrant
- Water Valve
- Water Meter
- Water Well
- Valve- Utility Type Unknown
- Sign
- Mail Box
- Monitoring Well
- Boring
- Shrub
- Deciduous Tree
- Coniferous Tree



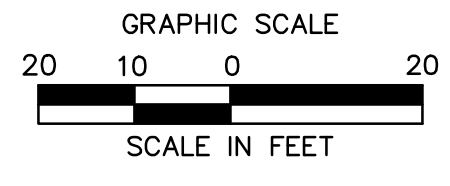
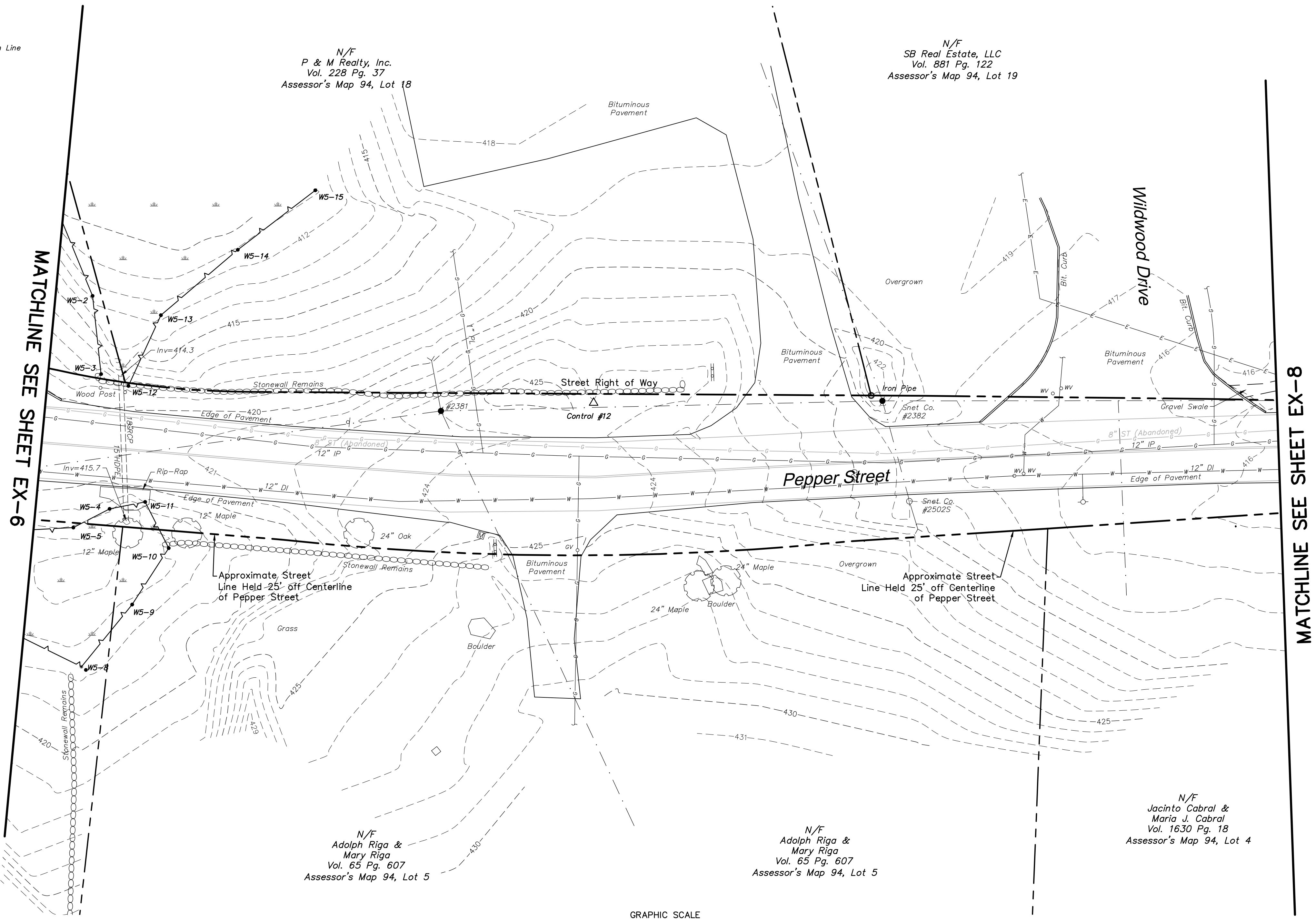
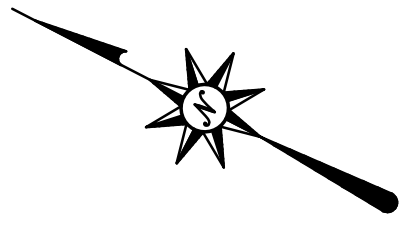
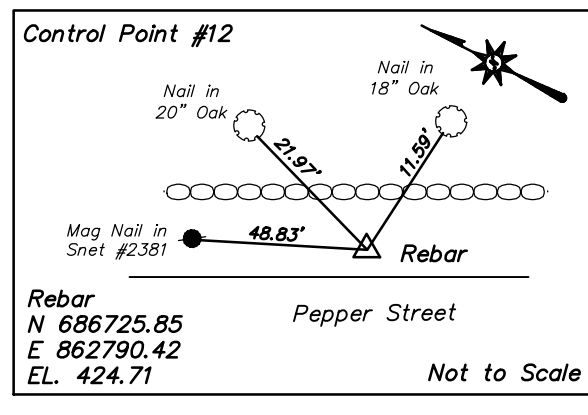
SHEETS 1-14 SHOULD BE CONSIDERED PART OF THIS SURVEY.

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Xref (s) : X12C432601 ; B012C432602 Survey

LEGEND

- Street/Highway Right of Way
- - - Approximate Street/Highway Right of Way
- Abutters Boundary Line
- Easement Line
- Edge of Water
- Limit of Wetlands
- Wetlands/Marsh
- Treeline
- Brushline
- - - -50- Major Contour
- - - Minor Contour
- Stone Wall
- Retaining Wall
- Guide Rail
- Stockade Fence
- Post Rail Fence
- Overhead Wires
- Underground Electric Line
- Gas Line
- Sanitary Sewer
- Storm Sewer
- Underground Telecommunications Line
- LV3 --- LV3 --- Level3 (Civil Defense) Telecommunications Line
- TR --- TR --- Underground Traffic Signal Cable
- W --- W --- Water Line
- --- --- Underground Utility - Type Unknown
- --- --- Automated Vacuum-assisted Collection System Line
- --- --- Utility Line Continues
- --- --- Utility Line Ends
- Handhole
- Electric Meter
- Utility Pole
- Utility Pole w/ Light
- Guy Wire
- Light Pole
- Ballad Light
- Flood Light
- Gas Valve
- Gas Valve Box
- Gas Test Station
- Cleanout
- CB
- Catch Basin
- Double Type I Catch Basin
- Double Type II Catch Basin
- MH
- Small Drain
- Roof Drain
- Span Pole
- Cantilever Pole
- Pedestal-mounted Traffic Signal
- Pedestrian Signal
- Fire Hydrant
- Water Valve
- Water Meter
- Water Well
- Valve- Utility Type Unknown
- Sign
- Mail Box
- Monitoring Well
- Boring
- Shrub
- Deciduous Tree
- Coniferous Tree



SHEETS 1-14 SHOULD BE CONSIDERED PART OF THIS SURVEY.



ARCHITECTURE
 ENGINEERING
 ENVIRONMENTAL
 LAND SURVEYING

355 Research Parkway
 Meriden, CT 06450
 (203) 630-1406
 (203) 630-2615 Fax

**ROADWAY RECONSTRUCTION
 PEPPER STREET
 MONROE, CONNECTICUT**

REVISIONS

No.	Date	ADDRESSED TOWN ENGINEERS COMMENTS
1.	10/26/2014	

Surveyed	JP
Drawn	AV
Checked	MG
Approved	RHR
Scale	1"=20'
Project No.	12C4326
Date	8/5/2014
Field Book	491
CAD File:	EX12C432601

Title
**RIGHT OF WAY/
 TOPOGRAPHIC
 SURVEY**

Sheet No. 7 OF 14

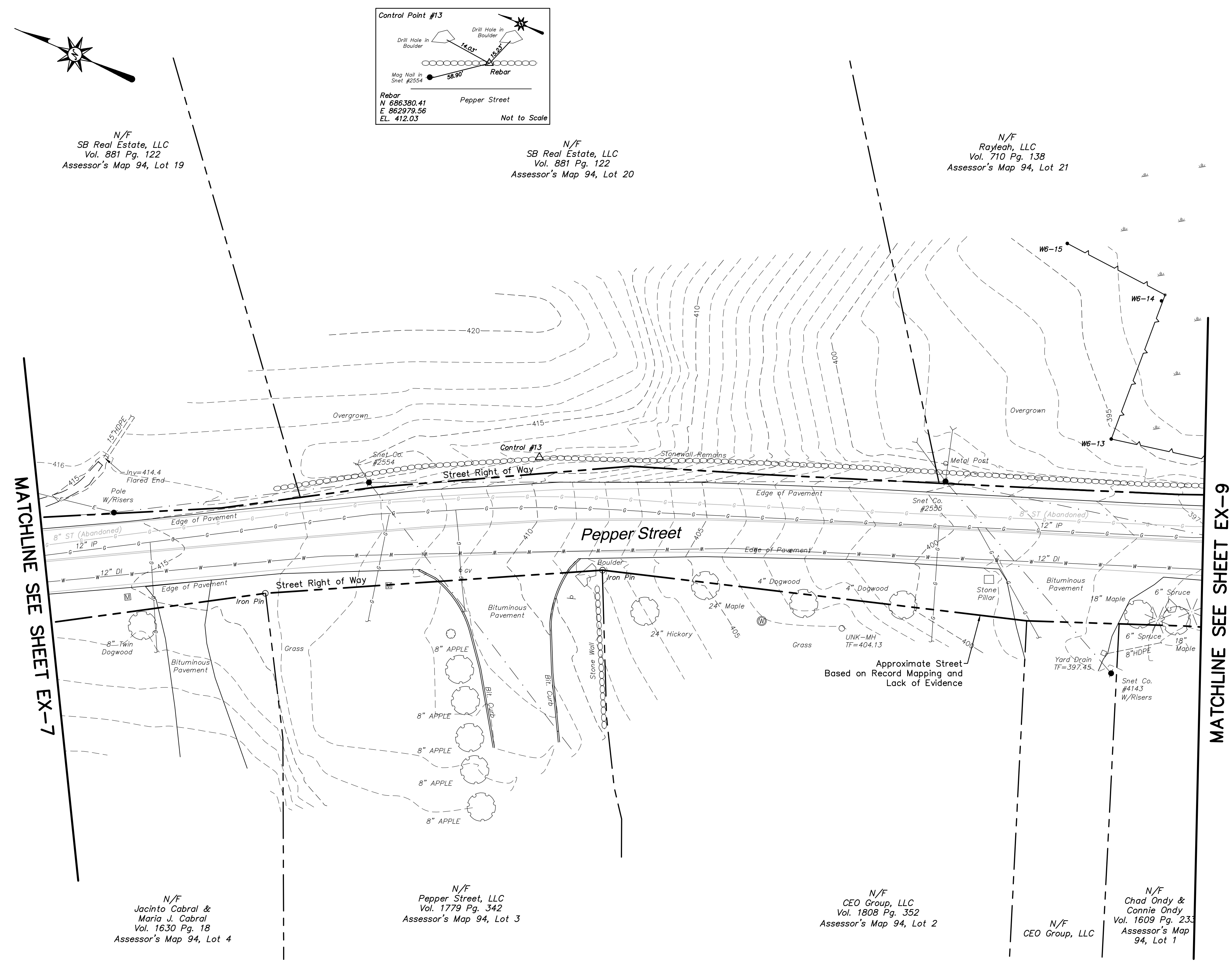
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Xref (s) : XY12C432601 ; BD12C432602 Survey

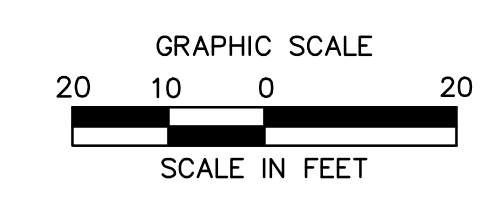
LEGEND

- Street/Highway Right of Way
- Approximate Street/Highway Right of Way
- Abutters Boundary Line
- Easement Line
- Edge of Water
- Limit of Wetlands
- Wetlands/Marsh
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- Fire Hydrant
- Water Valve
- Water Meter
- Water Well
- Valve - Utility Type Unknown
- Sign
- Mail Box
- Monitoring Well
- Boring
- Shrub
- Deciduous Tree
- Coniferous Tree



MATCHLINE SEE SHEET EX-7

MATCHLINE SEE SHEET EX-9



SHEETS 1-14 SHOULD BE CONSIDERED PART OF THIS SURVEY.

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

REVISIONS	Date	ADDRESSED TOWN ENGINEERS COMMENTS
No. 1.	10/29/2014	

Surveyed	JP
Drawn	AV
Checked	MG
Approved	RHR
Scale	1"=20'
Project No.	12C4326
Date	8/5/2014
Field Book	491
CAD File:	EX12C432601

Title
**RIGHT OF WAY/
TOPOGRAPHIC
SURVEY**

Sheet No. 8 OF 14

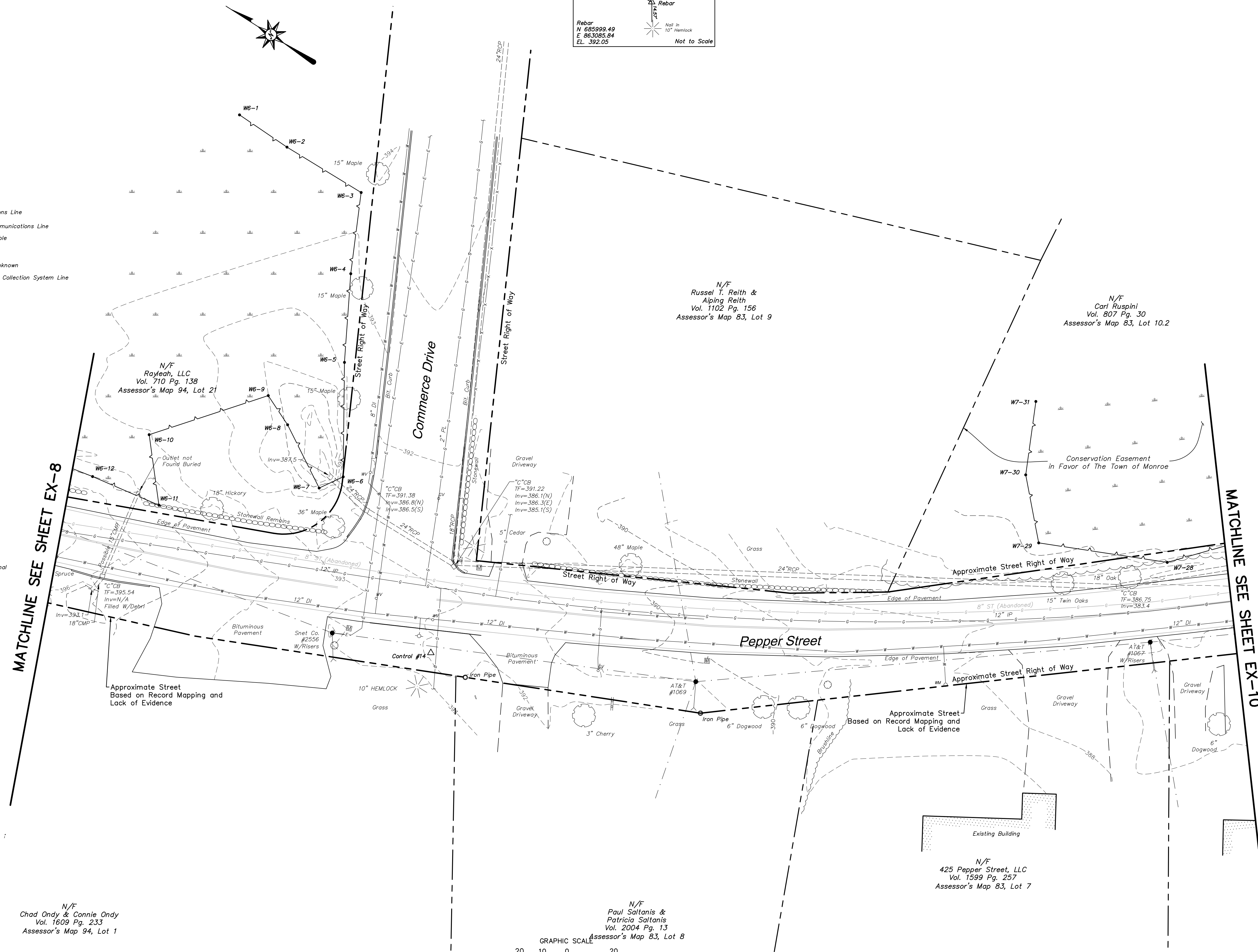
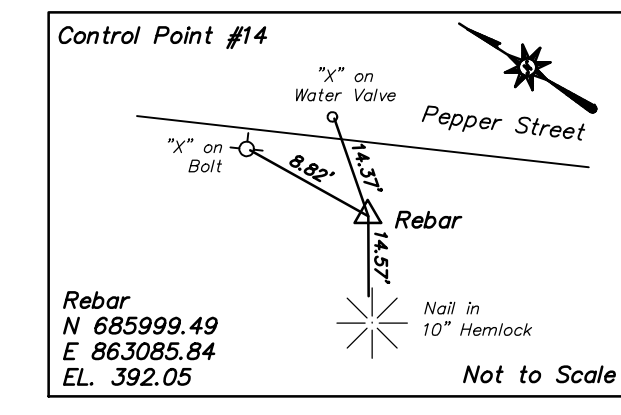
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Xref (0) : XY12C432601 ; BD12C432602 Survey

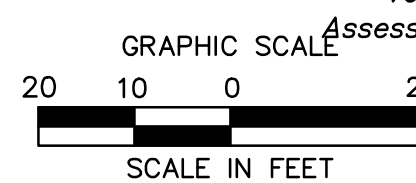
LEGEND

- Street/Highway Right of Way
- - - Approximate Street/Highway Right of Way
- - - Abutters Boundary Line
- - - Easement Line
- - - Edge of Water
- - - Limit of Wetlands
- - - Wetlands/Marsh
- - - Treeline
- - - Brushline
- - - Major Contour
- - - Minor Contour
- - - Stone Wall
- - - Retaining Wall
- - - Guide Rail
- - - Stockade Fence
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- - - Gas Line
- - - Sanitary Sewer
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- - - Level3 (Civil Defense) Telecommunications Line
- - - Underground Traffic Signal Cable
- - - Water Line
- - - Underground Utility - Type Unknown
- - - Automated Vacuum-assisted Collection System Line
- - - Utility Line Continues
- - - Utility Line Ends
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- Utility Pole w/ Light
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- Guy Pole
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- Double Type II Catch Basin
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- Span Pole
- Cantilever Pole
- Pedestal-mounted Traffic Signal
- Pedestrian Signal
- Fire Hydrant
- Water Valve
- Water Meter
- Water Well
- Valve - Utility Type Unknown
- Sign
- Mail Box
- Monitoring Well
- Boring
- Shrub
- Deciduous Tree
- Coniferous Tree



MATCHLINE SEE SHEET EX-8

MATCHLINE SEE SHEET EX-10



SHEETS 1-14 SHOULD BE CONSIDERED PART OF THIS SURVEY.



ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING

355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

REVISIONS	Date	ADDRESSED TOWN ENGINEERS COMMENTS
1.	10/26/2014	

Surveyed	JP
Drawn	AV
Checked	MG
Approved	RHR
Scale	1"=20'
Project No.	12C4326
Date	8/5/2014
Field Book	491
CAD File:	EX12C432601

Title
**RIGHT OF WAY/
TOPOGRAPHIC
SURVEY**

Sheet No. 9 OF 14

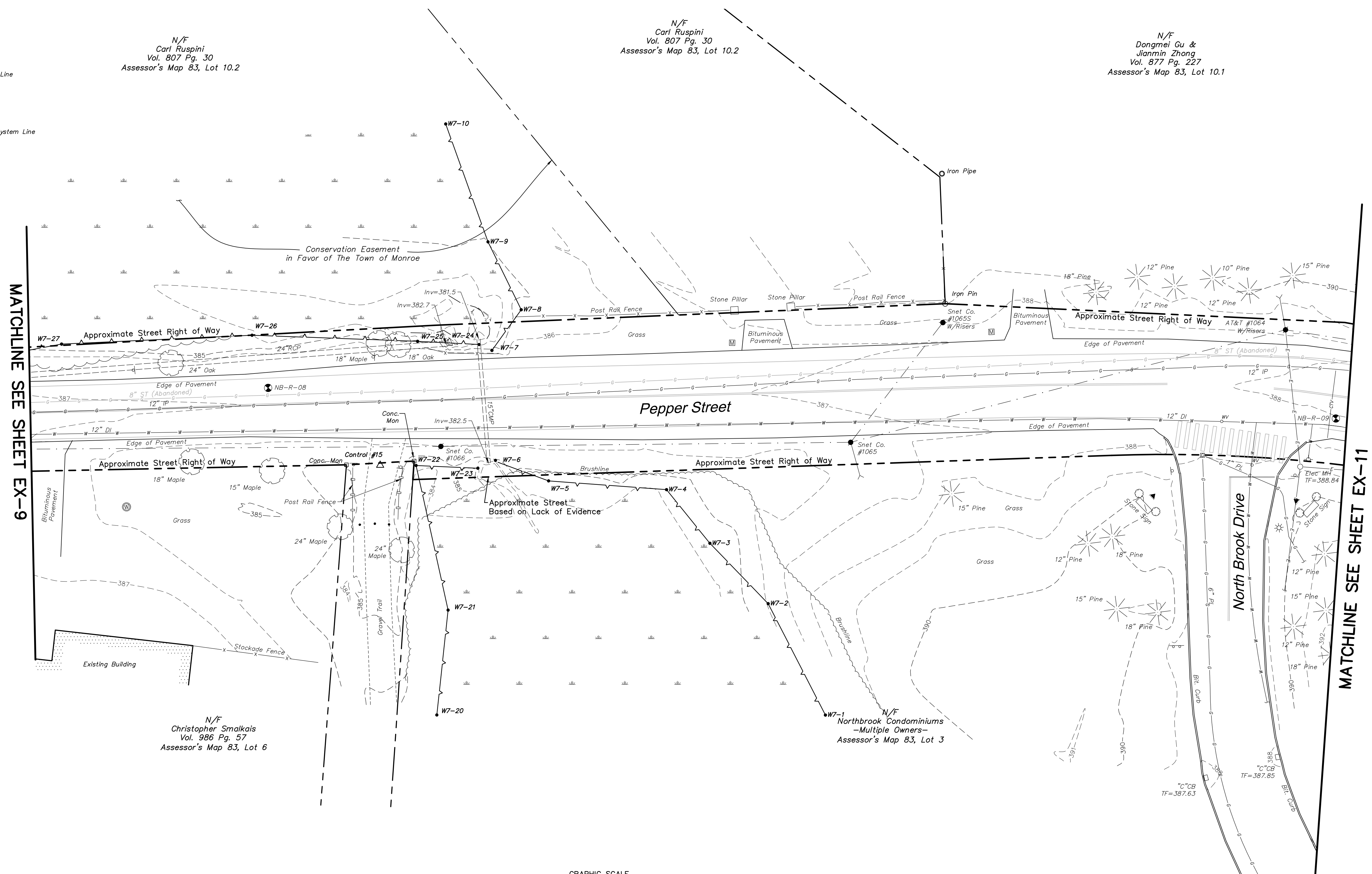
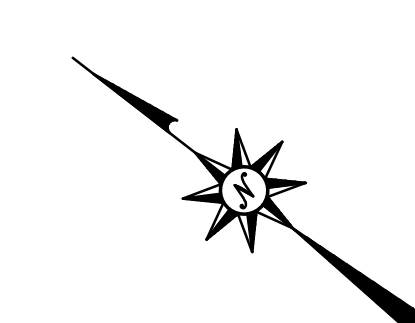
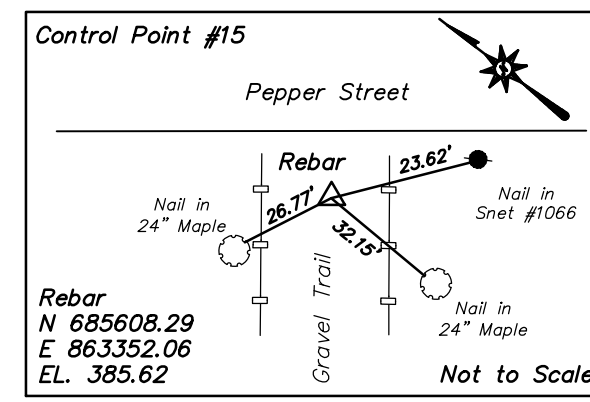
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Lynette EX-9 24x36 2014

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LEGEND

- Street/Highway Right of Way
- Approximate Street/Highway Right of Way
- Abutters Boundary Line
- Easement Line
- Edge of Water
- Limit of Wetlands
- Wetlands/Marsh
- Treeline
- Brushline
- Major Contour
- Minor Contour
- Stone Wall
- Retaining Wall
- Guide Rail
- Stockade Fence
- Post Rail Fence
- Overhead Wires
- Underground Electric Line
- Gas Line
- Sanitary Sewer
- Storm Sewer
- Underground Telecommunications Line
- Level3 (Civil Defense) Telecommunications Line
- Underground Traffic Signal Cable
- Water Line
- Underground Utility - Type Unknown
- Automated Vacuum-assisted Collection System Line
- Utility Line Continues
- Utility Line Ends
- Handhole
- Electric Meter
- Utility Pole
- Utility Pole w/ Light
- Guy Wire
- Guy Pole
- Light Pole
- Bollard Light
- Flood Light
- Gas Valve
- Gas Valve Box
- Gas Test Station
- Cleanout
- Catch Basin
- Double Type I Catch Basin
- Double Type II Catch Basin
- Manhole
- Small Drain
- Roof Drain
- Span Pole
- Cantilever Pole
- Pedestal-mounted Traffic Signal
- Pedestrian Signal
- Fire Hydrant
- Water Valve
- Water Meter
- Water Well
- Valve- Utility Type Unknown
- Sign
- Mail Box
- Monitoring Well
- Boring
- Shrub
- Deciduous Tree
- Coniferous Tree



MATCHLINE SEE SHEET EX-9

MATCHLINE SEE SHEET EX-11



ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING

355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

REVISIONS

No.	Date	DESCRIPTION
1.	10/26/2014	ADDRESSED TOWN ENGINEERS COMMENTS

Surveyed	JP
Drawn	AV
Checked	MG
Approved	RHR
Scale	1"=20'
Project No.	12C4326
Date	8/5/2014
Field Book	491
CAD File:	EX12C432601

Title
**RIGHT OF WAY/
TOPOGRAPHIC
SURVEY**

Sheet No. 10 OF 14

EX-10

SHEETS 1-14 SHOULD BE CONSIDERED PART OF THIS SURVEY.

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Typical EX-10 2x40 2000

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Xref (b) : XY12C432601 : BD12C432602 Survey

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

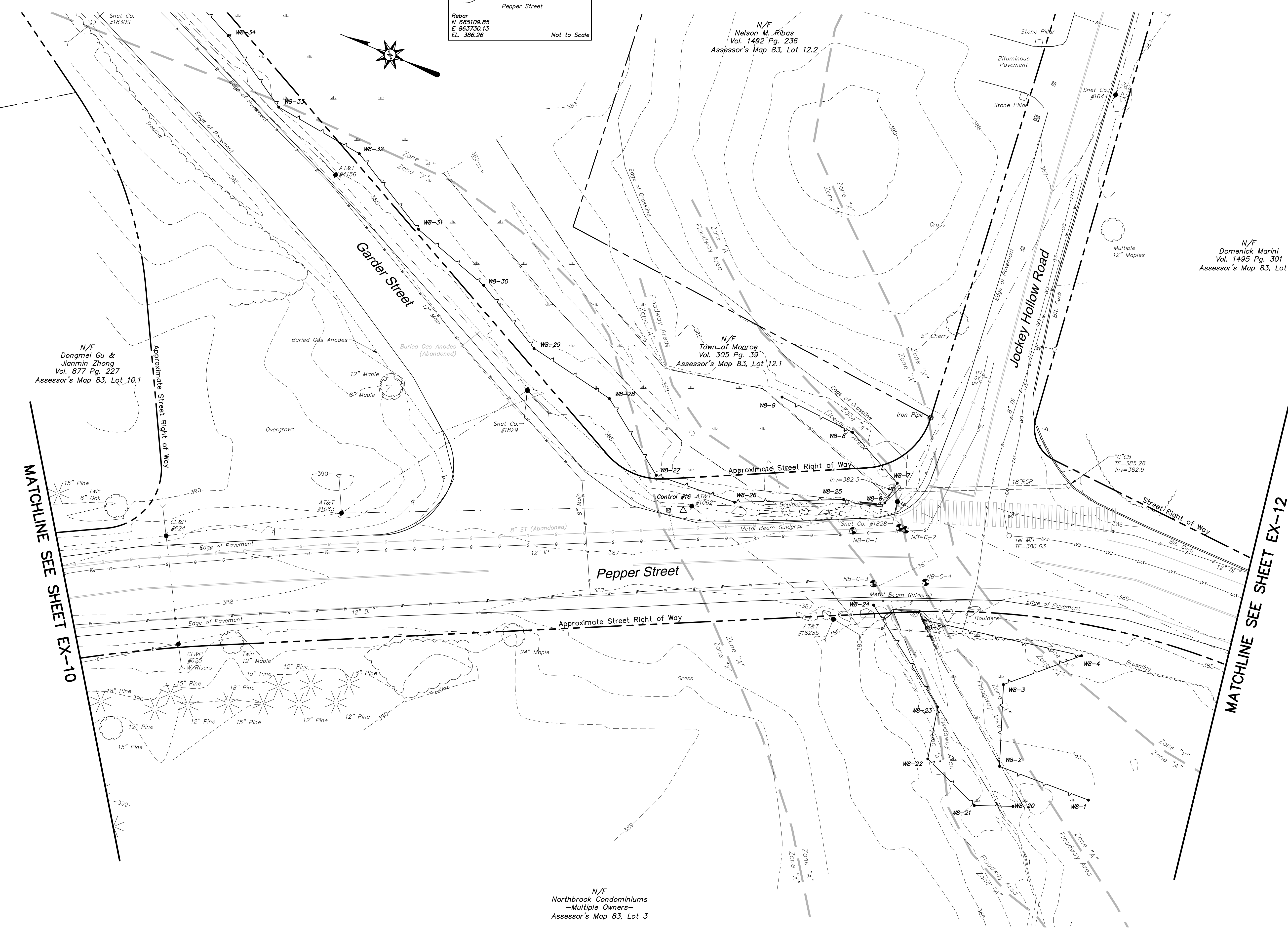
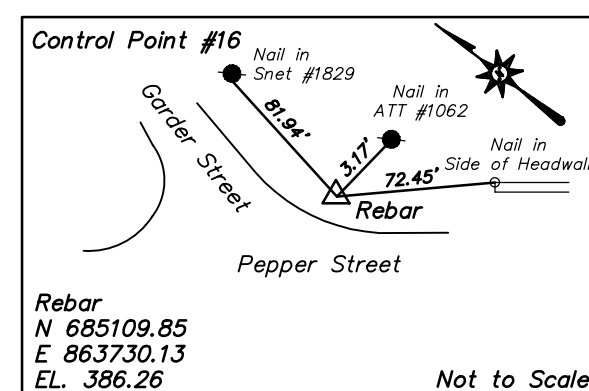
REVISIONS
No. Date Description

1. 10/26/2014 ADDRESSED TOWN ENGINEERS COMMENTS

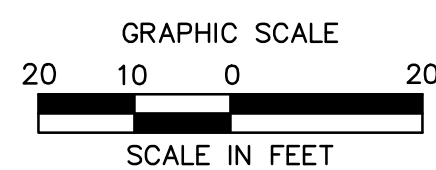
Surveyed JP
Drawn AV
Checked MG
Approved RHR
Scale 1"=20'
Project No. 12C4326
Date 8/5/2014
Field Book 491

Sheet No. 11 OF 14

EX-11



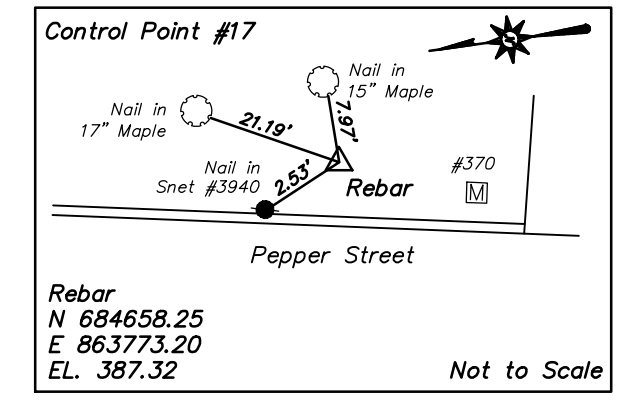
N/F
Northbrook Condominiums
-Multiple Owners-
Assessor's Map 83, Lot 3



SHEETS 1-14 SHOULD BE CONSIDERED PART OF THIS SURVEY.

LEGEND

- Street/Highway Right of Way
- Approximate Street/Highway Right of Way
- Abutters Boundary Line
- Easement Line
- Edge of Water
- Limit of Wetlands
- Wetlands/Marsh
- Treeline
- Brushline
- Major Contour
- Minor Contour
- Stone Wall
- Retaining Wall
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- Pedestal-mounted Traffic Signal
- Pedestrian Signal
- Fire Hydrant
- Water Valve
- Water Meter
- Water Well
- Valve - Utility Type Unknown
- Sign
- Mail Box
- Monitoring Well
- Boring
- Shrub
- Deciduous Tree
- Coniferous Tree

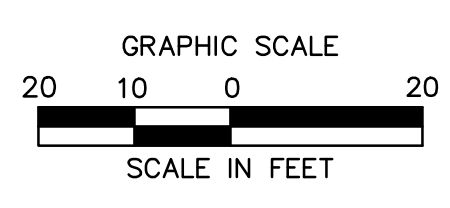
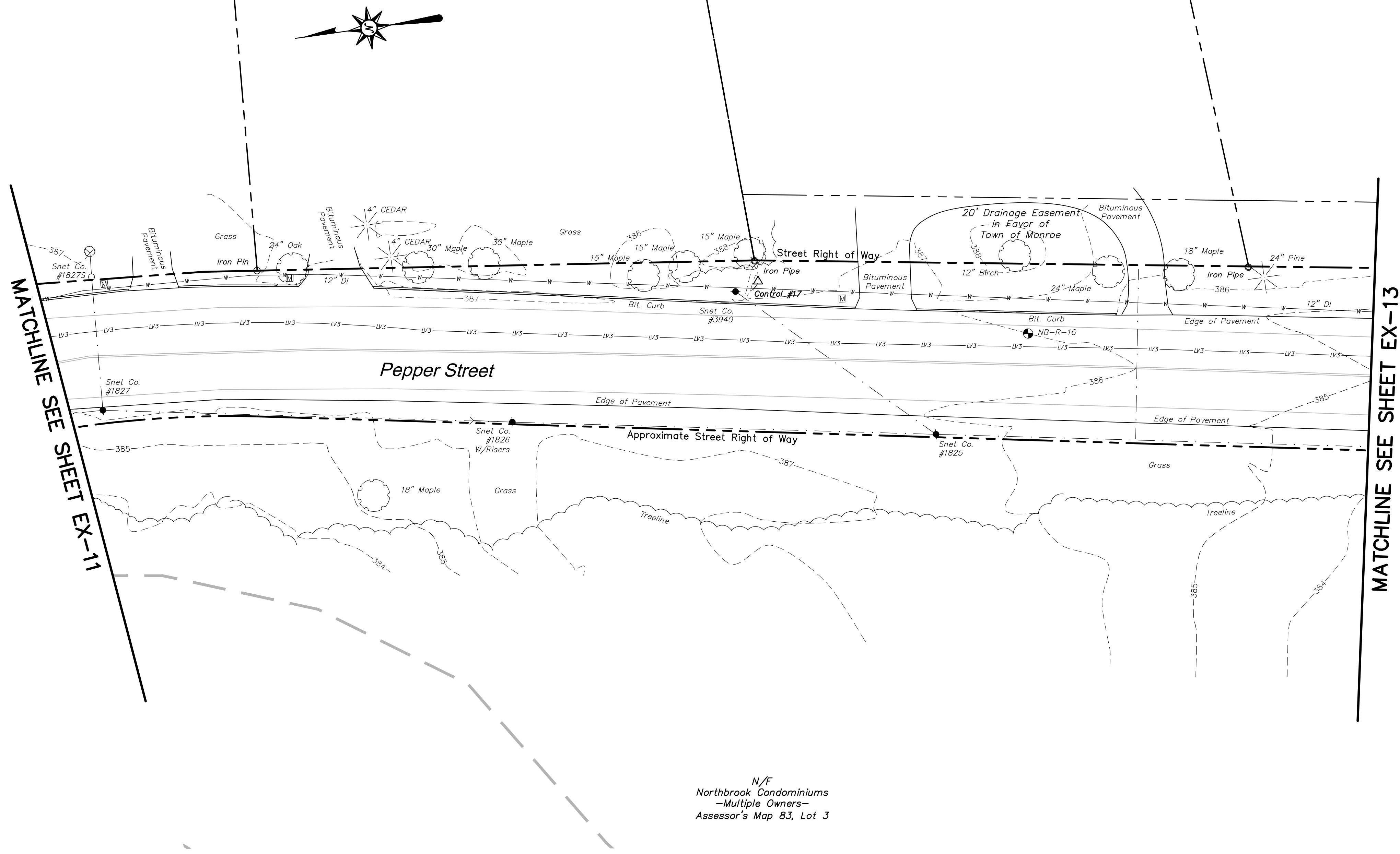


N/F
Domenick Marini
Vol. 1495 Pg. 301
Assessor's Map 83, Lot 14

N/F
Karen Zmijewski &
Thomas Zmijewski
Vol. 1077 Pg. 345
Assessor's Map 83, Lot 15

N/F
Keith A. Hensel &
Wendy Hensel
Vol. 911 Pg. 99
Assessor's Map 71, Lot 19.16

N/F
Matthew Steese &
Elizabeth Steese
Vol. 1534 Pg. 164
Assessor's Map 71, Lot 19.15



N/F
Northbrook Condominiums
-Multiple Owners-
Assessor's Map 83, Lot 3

SHEETS 1-14 SHOULD BE CONSIDERED PART OF THIS SURVEY.



ARCHITECTURE
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ENVIRONMENTAL
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Meriden, CT 06450
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**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

REVISIONS	No.	Date	ADDRESSSED TOWN ENGINEERS COMMENTS
1.	1.	10/26/2014	

Surveyed	JP
Drawn	AV
Checked	MG
Approved	RHR
Scale	1"=20'
Project No.	12C4326
Date	8/5/2014
Field Book	491
CAD File:	EX12C432601

Title
**RIGHT OF WAY/
TOPOGRAPHIC
SURVEY**

Sheet No. 12 OF 14

EX-12

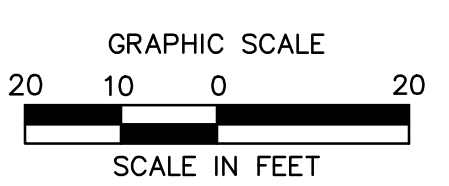
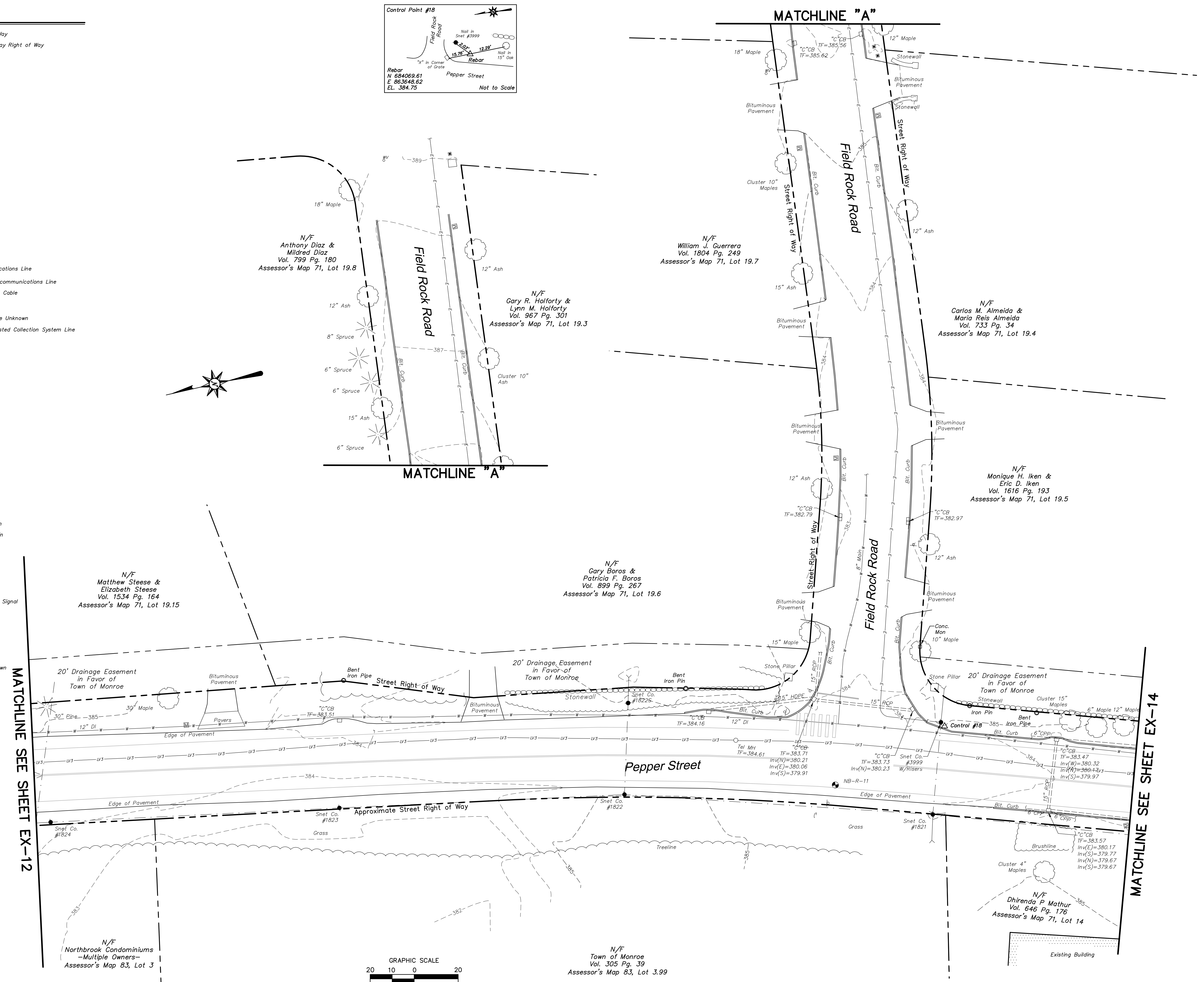
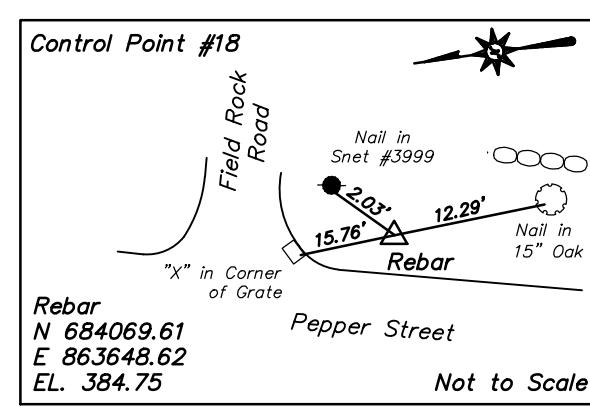
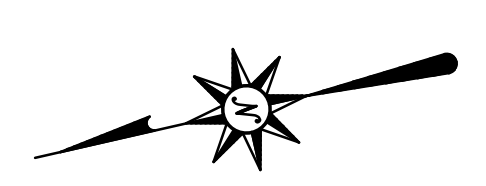
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Xref (s) : XY12C432601 ; BD12C432602 Survey

LEGEND

- Street/Highway Right of Way
- Approximate Street/Highway Right of Way
- Abutters Boundary Line
- Easement Line
- Edge of Water
- Limit of Wetlands
- Wetlands/Marsh
- Treeline
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- Major Contour
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- Monitoring Well
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- Shrub
- Deciduous Tree
- Coniferous Tree



SHEETS 1-14 SHOULD BE CONSIDERED PART OF THIS SURVEY.



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Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

REVISIONS	Date	ADDRESSED TOWN ENGINEERS COMMENTS
No. 1	10/26/2014	

Surveyed	JP
Drawn	AV
Checked	MG
Approved	RHR
Scale	1"=20'
Project No.	12C4326
Date	8/5/2014
Field Book	491
CAD File:	EX12C432601
Title	RIGHT OF WAY/ TOPOGRAPHIC SURVEY

Sheet No. 13 OF 14

EX-13

Jun 26, 2014 11:24am
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 Layout: EX-13 24x36 2014

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Xref (0) : XY12C432601 ; BD12C432602 Survey

REVISIONS

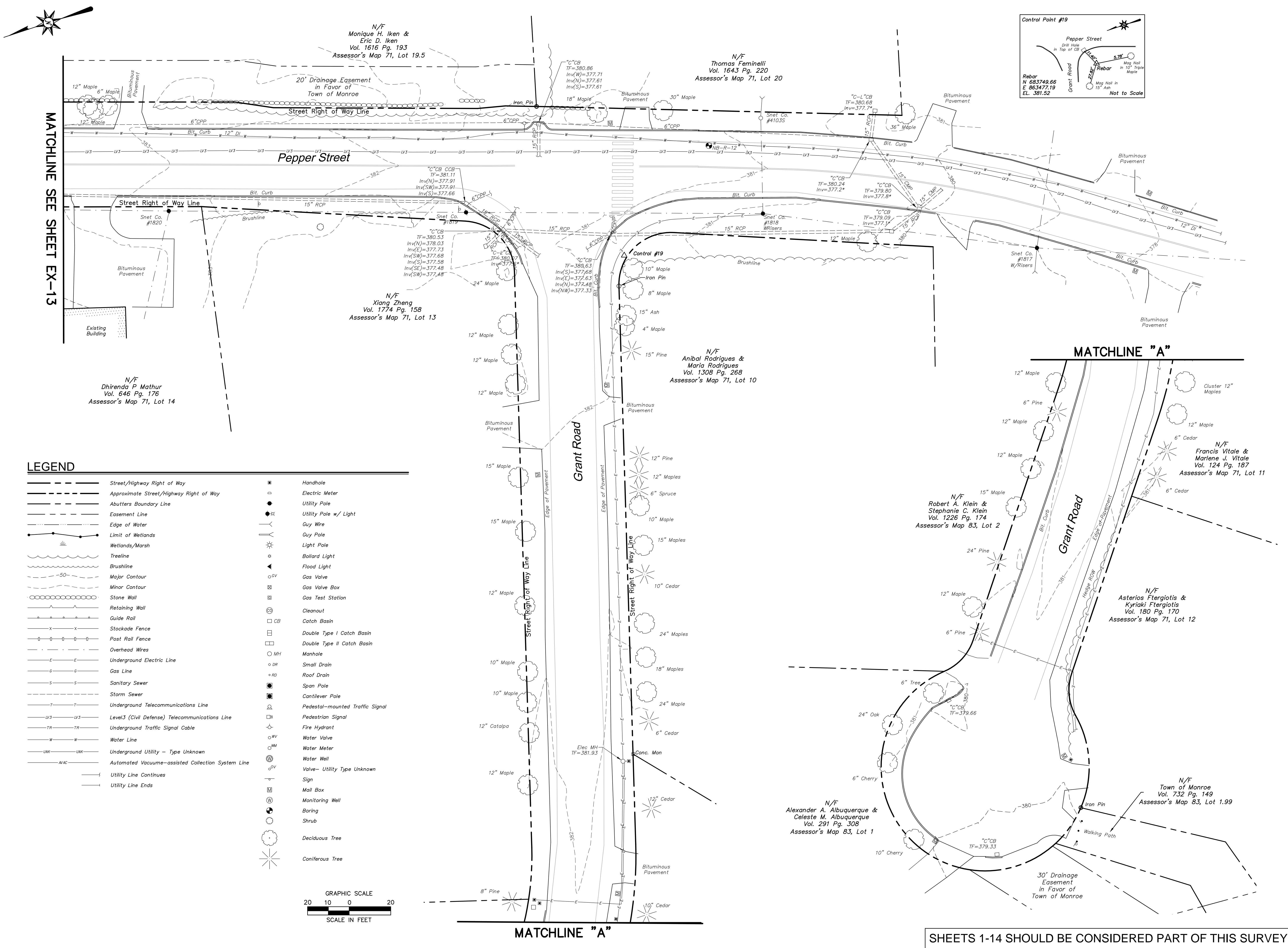
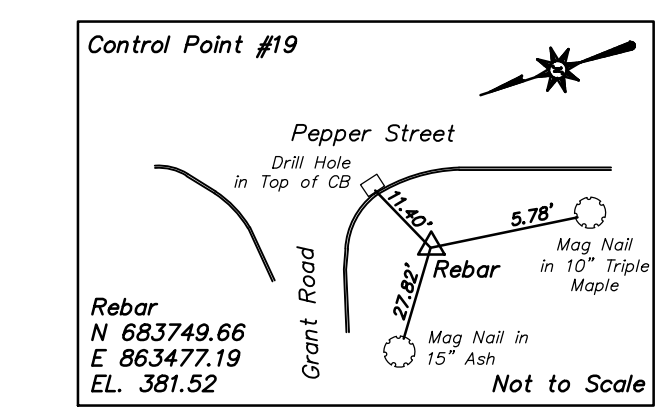
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1.	10/26/2014	

Surveyed	JP
Drawn	AV
Checked	MG
Approved	RHR
Scale	1"=20'
Project No.	12C4326
Date	8/5/2014
Field Book	491
CAD File:	EX12C432601

Title
**RIGHT OF WAY/
TOPOGRAPHIC
SURVEY**

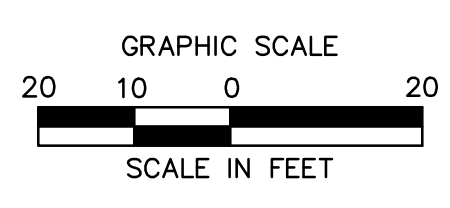
Sheet No. 14 OF 14

EX-14



LEGEND

	Street/Highway Right of Way		Handhole
	Approximate Street/Highway Right of Way		Electric Meter
	Abutters Boundary Line		Utility Pole
	Easement Line		Utility Pole w/ Light
	Edge of Water		Guy Wire
	Limit of Wetlands		Guy Pole
	Wetlands/Marsh		Light Pole
	Treeline		Bollard Light
	Brushline		Flood Light
	Major Contour		Gas Valve
	Minor Contour		Gas Valve Box
	Stone Wall		Gas Test Station
	Retaining Wall		Cleanout
	Guide Rail		Catch Basin
	Stockade Fence		Double Type I Catch Basin
	Post Rail Fence		Double Type II Catch Basin
	Overhead Wires		Manhole
	Underground Electric Line		Small Drain
	Gas Line		Roof Drain
	Sanitary Sewer		Span Pole
	Storm Sewer		Cantilever Pole
	Underground Telecommunications Line		Pedestal-mounted Traffic Signal
	Level3 (Civil Defense) Telecommunications Line		Pedestrian Signal
	Underground Traffic Signal Cable		Fire Hydrant
	Water Line		Water Valve
	Underground Utility - Type Unknown		Water Meter
	Automated Vacuum-assisted Collection System Line		Water Well
	Utility Line Continues		Valve - Utility Type Unknown
	Utility Line Ends		Sign
			Mail Box
			Monitoring Well
			Boring
			Shrub
			Deciduous Tree
			Coniferous Tree

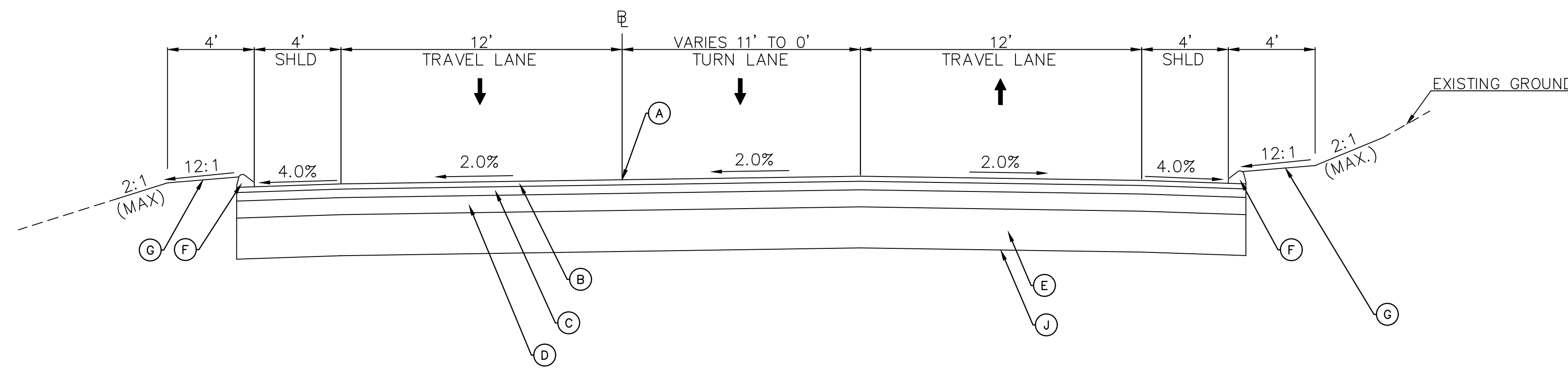


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SHEETS 1-14 SHOULD BE CONSIDERED PART OF THIS SURVEY.

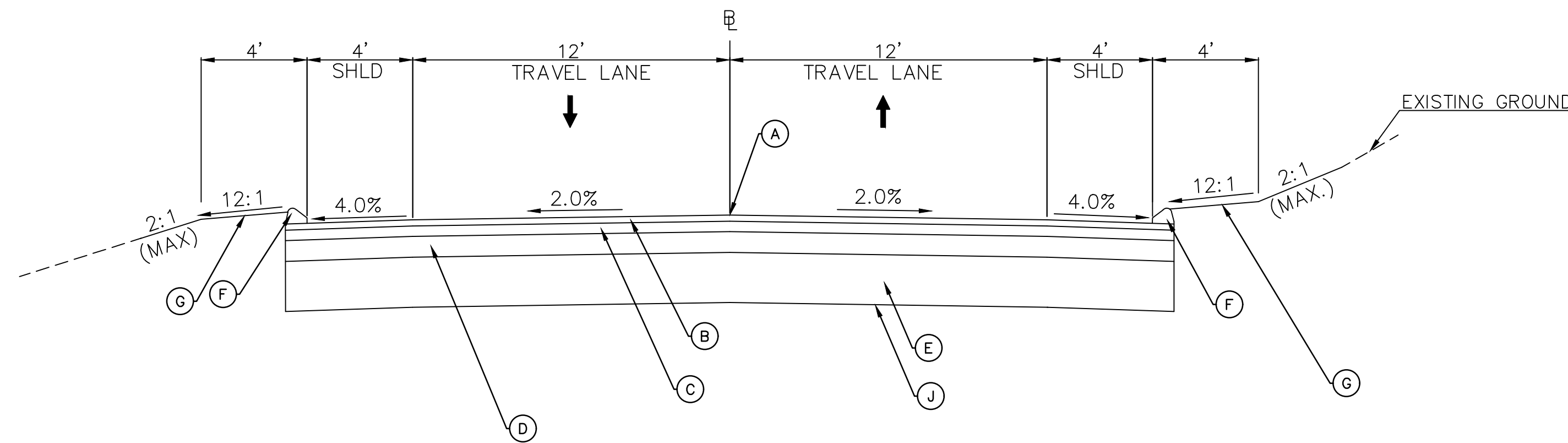
LEGEND

- (A) POINT OF APPLICATION OF GRADE
- (B) 2" HMA S0.375
- (C) 3" HMA S0.5
- (D) 5" PROCESSED AGGREGATE BASE
- (E) 12" SUBBASE (FREE DRAINING)
- (F) BITUMINOUS CONCRETE LIP CURBING
- (G) 4" TOP SOIL AND TURF ESTABLISHMENT
- (H) 4" STONE DUST (CRUSHED STONE BEDDING MATERIAL)
- (I) 6" SUBBASE (FREE DRAINING)
- (J) FORMATION OF SUBGRADE
- (K) SPLIT RAIL FENCE
- (L) GEOTEXTILE SEPARATION - MEDIUM SURVIVABILITY
- (M) 1.25" HMA S0.25
- (N) 2" HMA S0.5
- (O) 3" HMA S0.375
- (P) 8" GRANULAR FILL



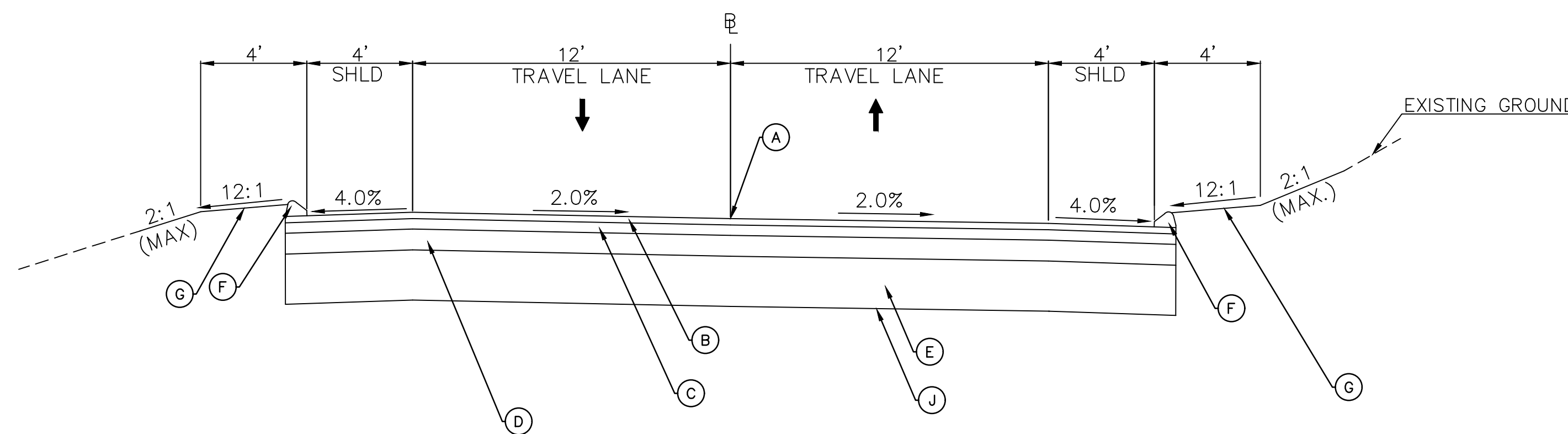
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STA. 87+00.00 TO 90+10.00
NOT TO SCALE



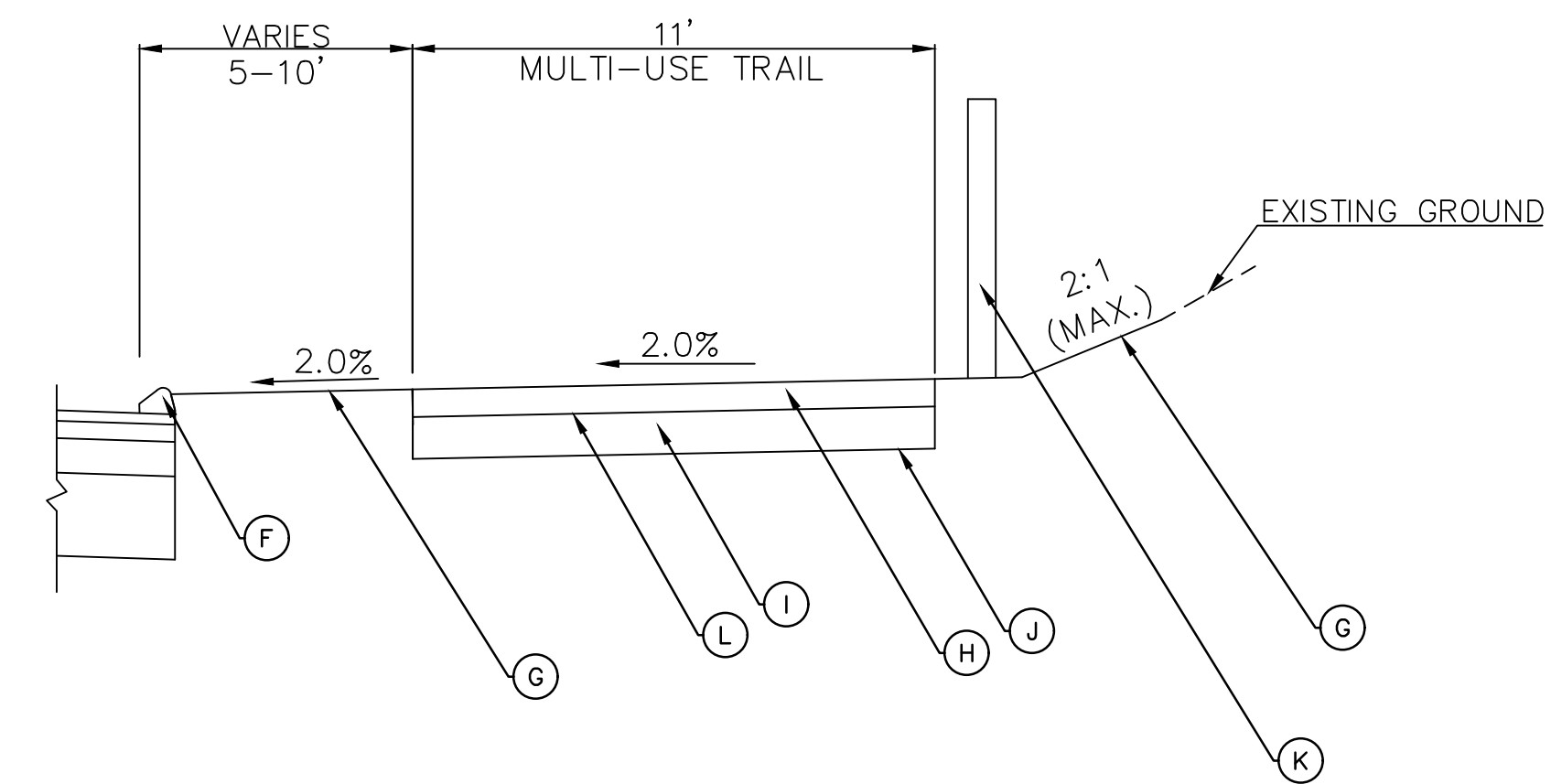
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PEPPER STREET
NOT TO SCALE
(SEE CROSS SECTIONS FOR SUPERELEVATION DETAILS)
(SEE PLANS FOR UNDERDRAIN LOCATIONS)



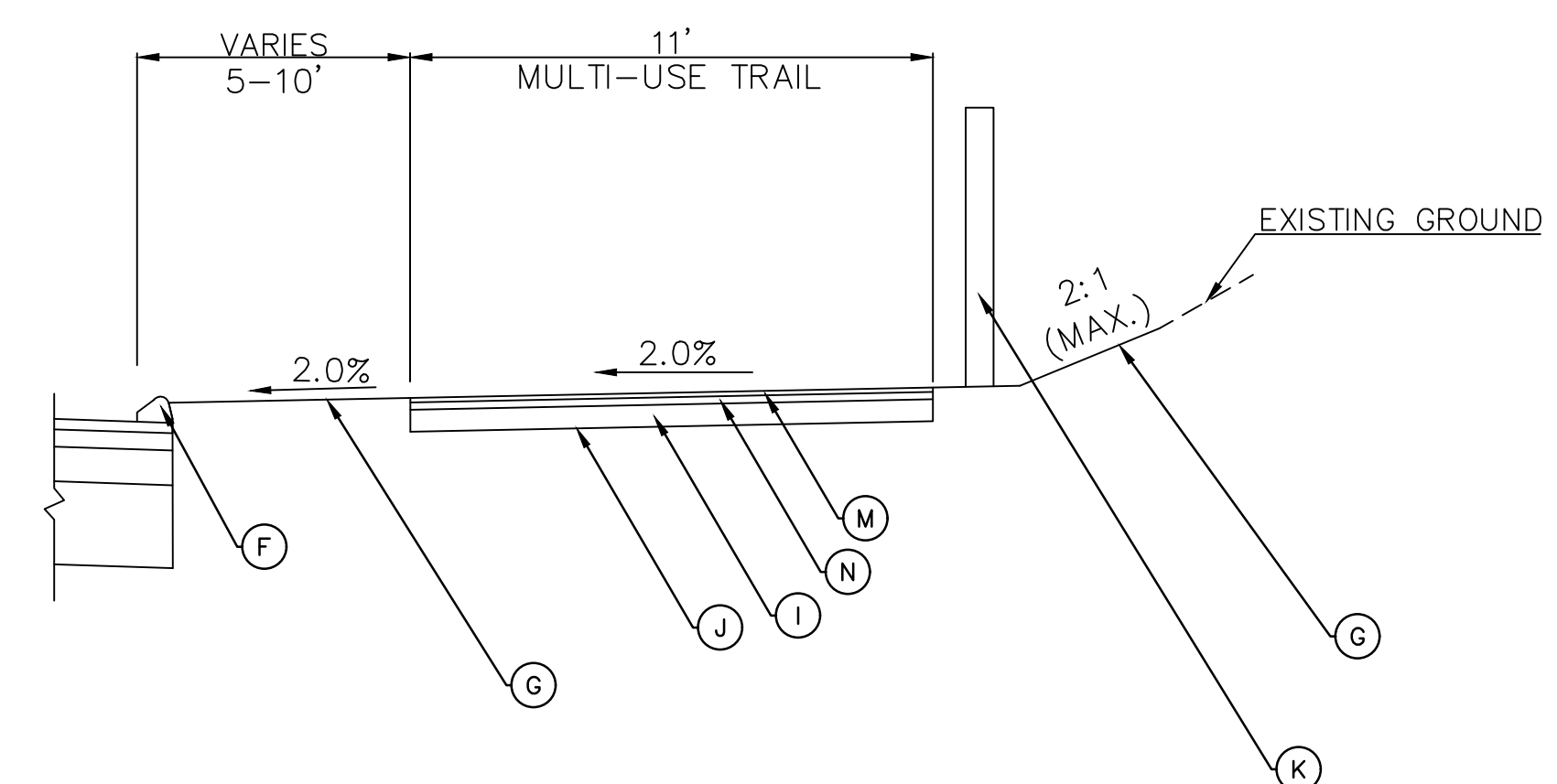
SUPERELEVATED TYPICAL SECTION

PEPPER STREET
NOT TO SCALE
(SEE CROSS SECTIONS FOR SUPERELEVATION DETAILS)
(SEE PLANS FOR UNDERDRAIN LOCATIONS)



TYPICAL DETAIL OF GRAVEL MULTI-USE TRAIL

NOT TO SCALE
(SEE PLANS FOR LOCATION OF MULTI-USE TRAIL)



TYPICAL DETAIL OF BITUMINOUS MULTI-USE TRAIL

NOT TO SCALE
(SEE PLANS FOR LOCATION OF MULTI-USE TRAIL)

REVISIONS	No.	Date	Desc.

Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	N.T.S.
Project No.	12C4326
Date	06/26/2019
CAD File:	TTY12C432601

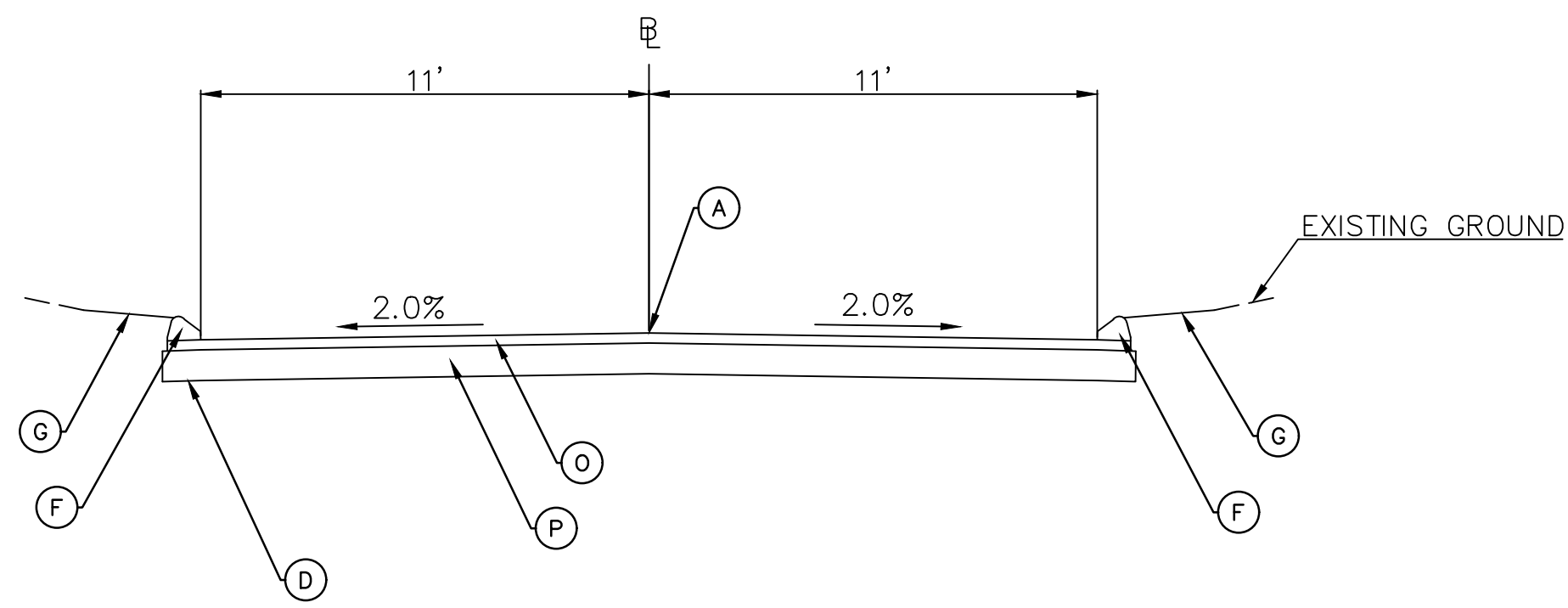
Title
TYPICAL SECTIONS

Sheet No.

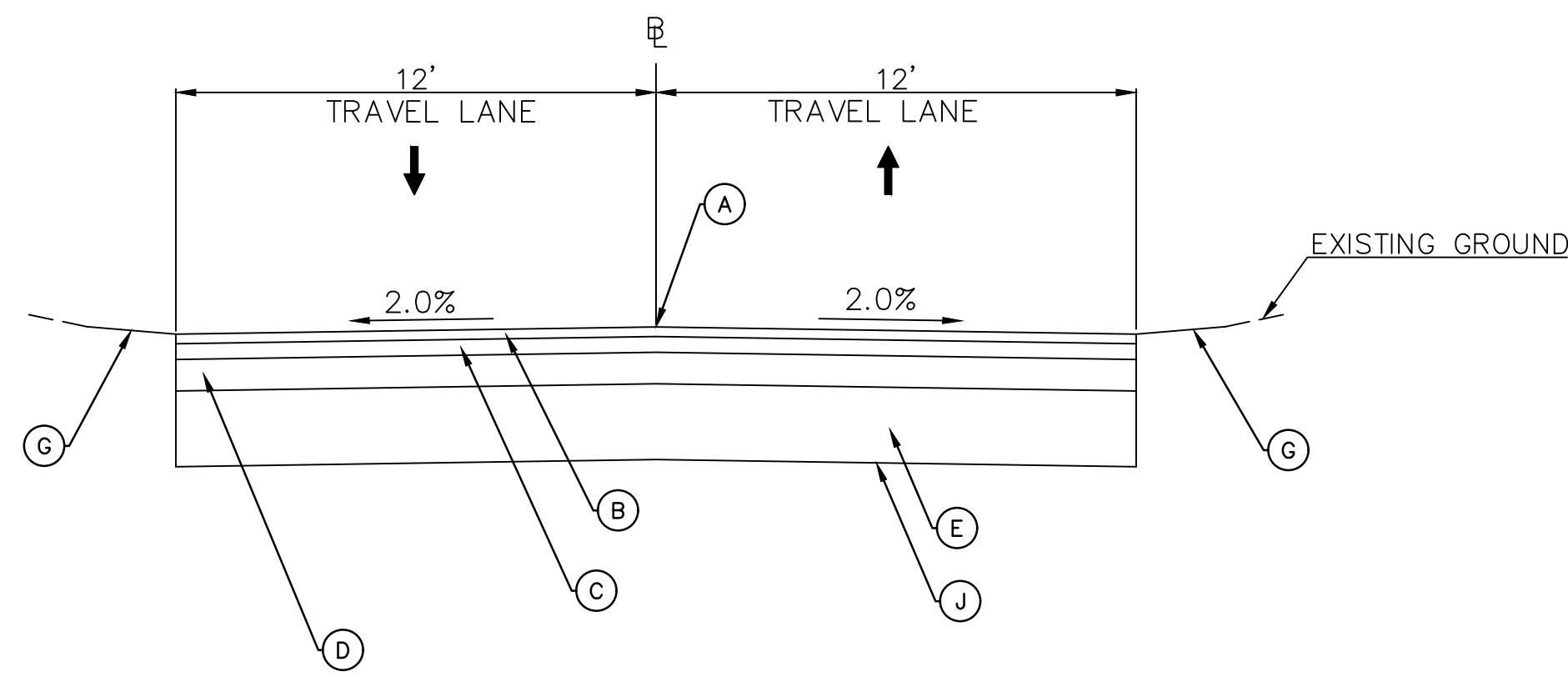
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LEGEND

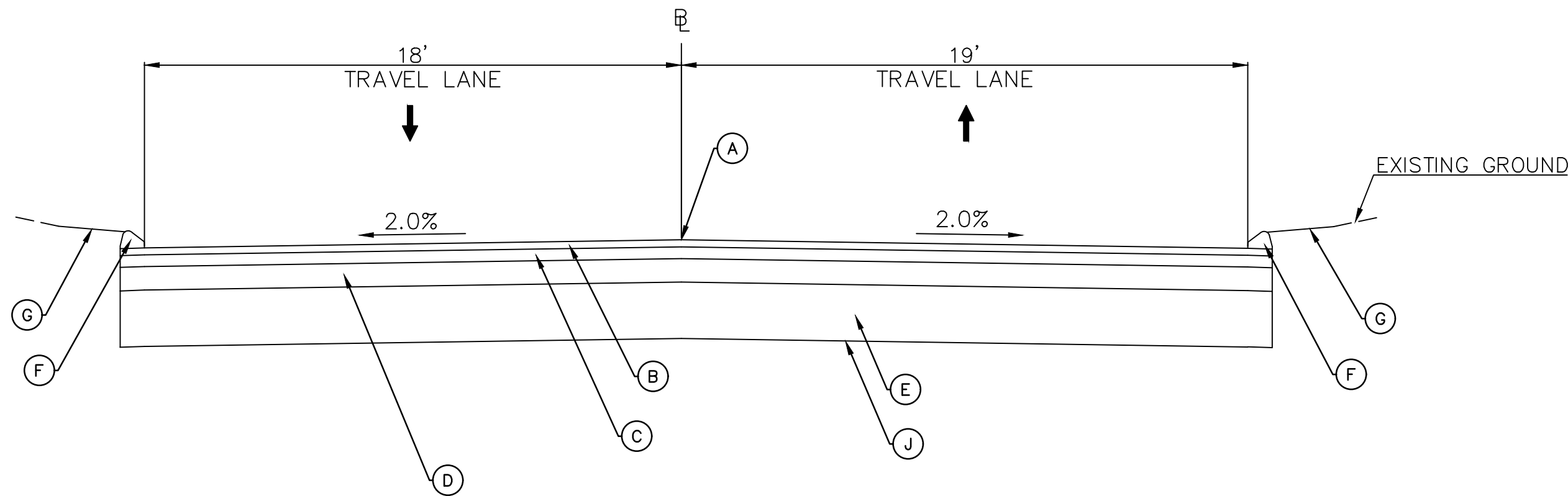
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- (B) 2" HMA S0.375
- (C) 3" HMA S0.5
- (D) 5" PROCESSED AGGREGATE BASE
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- (M) 1.25" HMA S0.25
- (N) 2" HMA S0.5
- (O) 3" HMA S0.375
- (P) 8" GRANULAR FILL



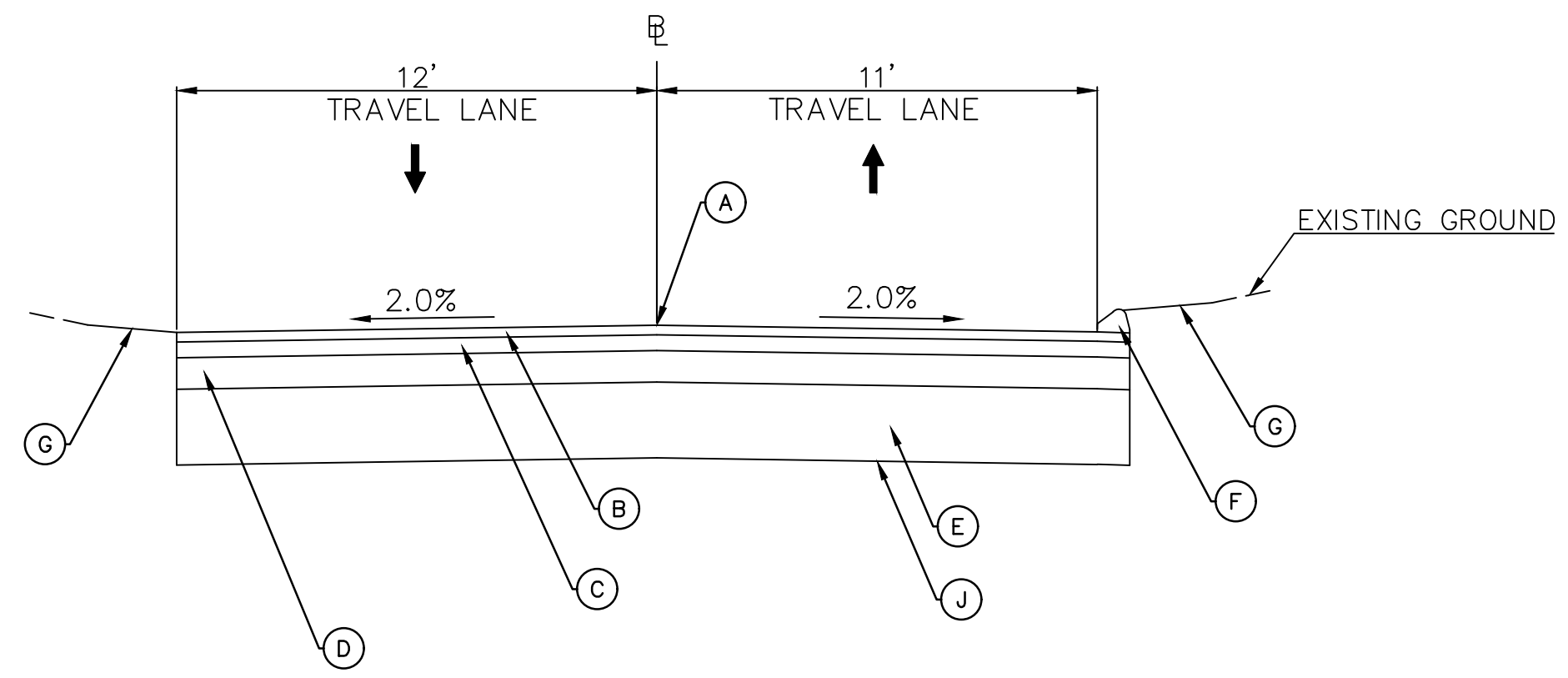
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NOT TO SCALE



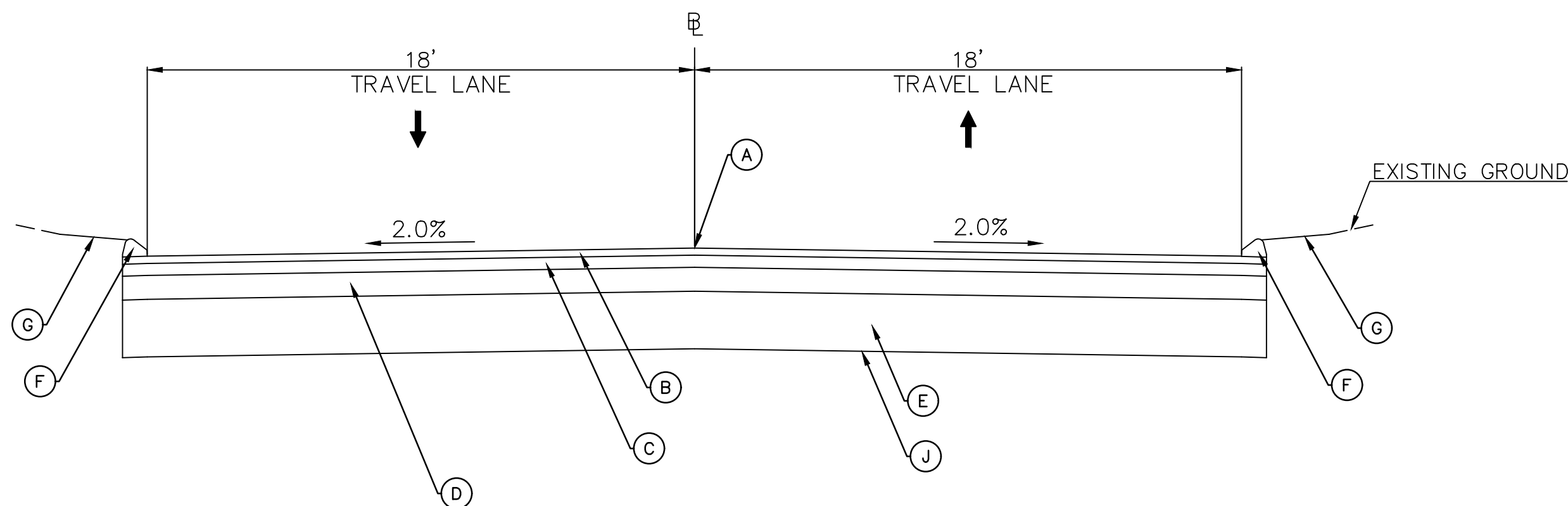
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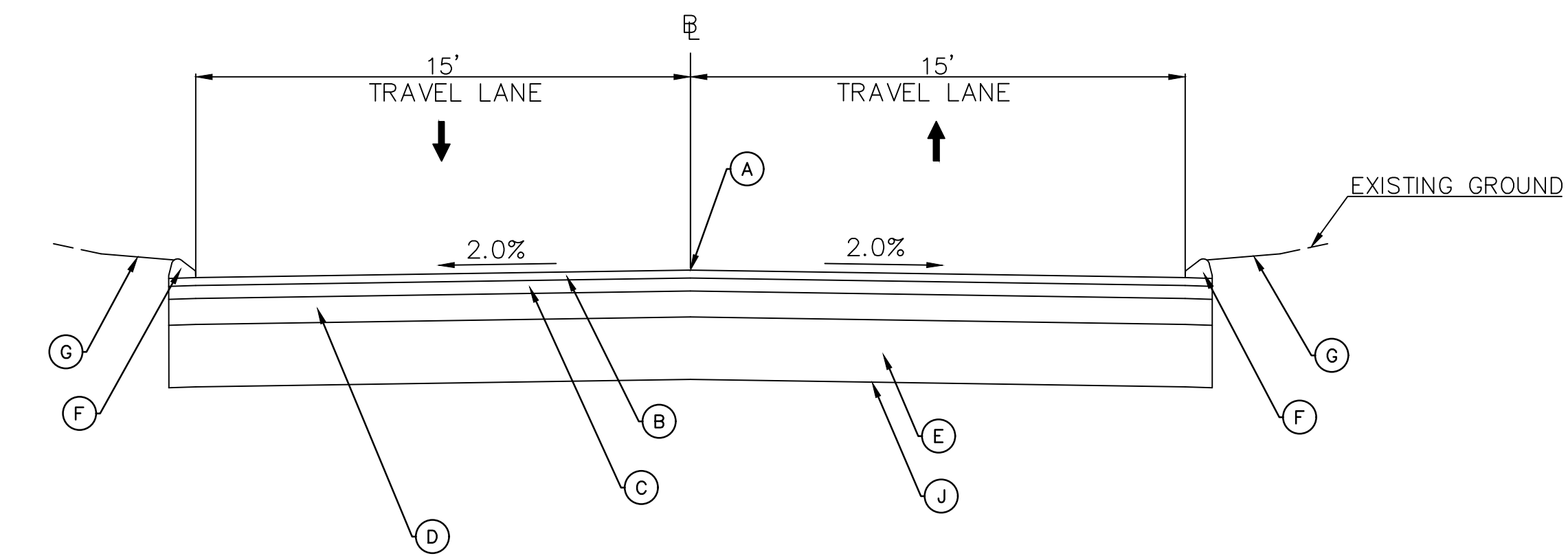
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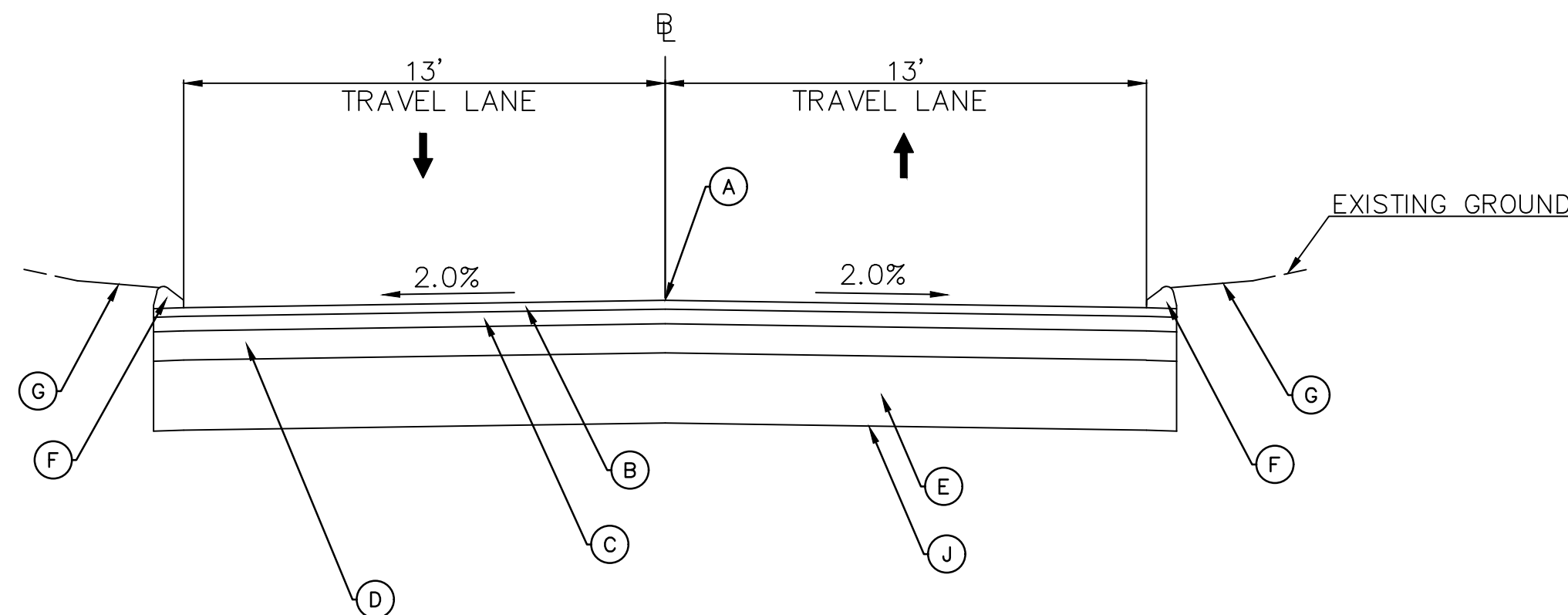
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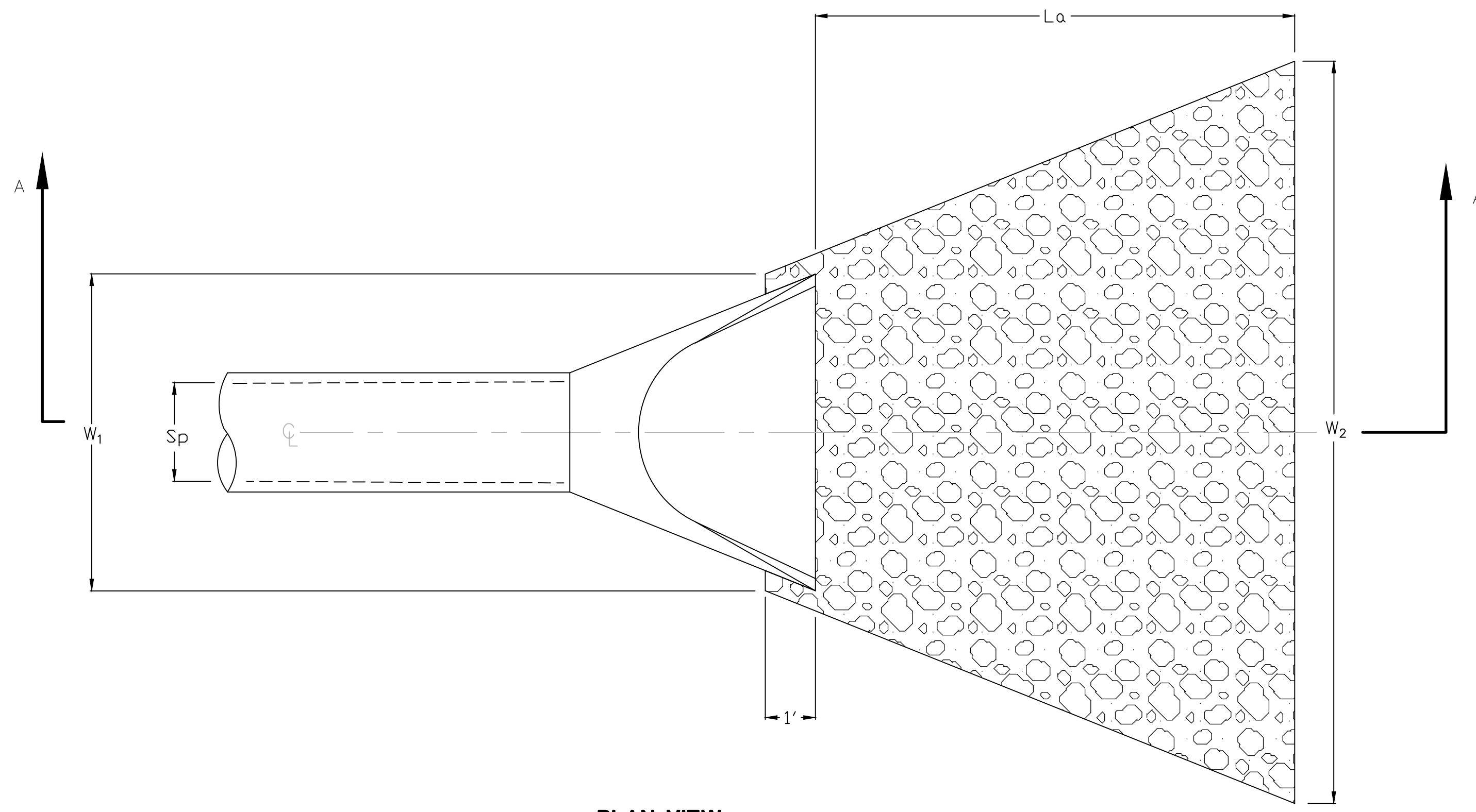
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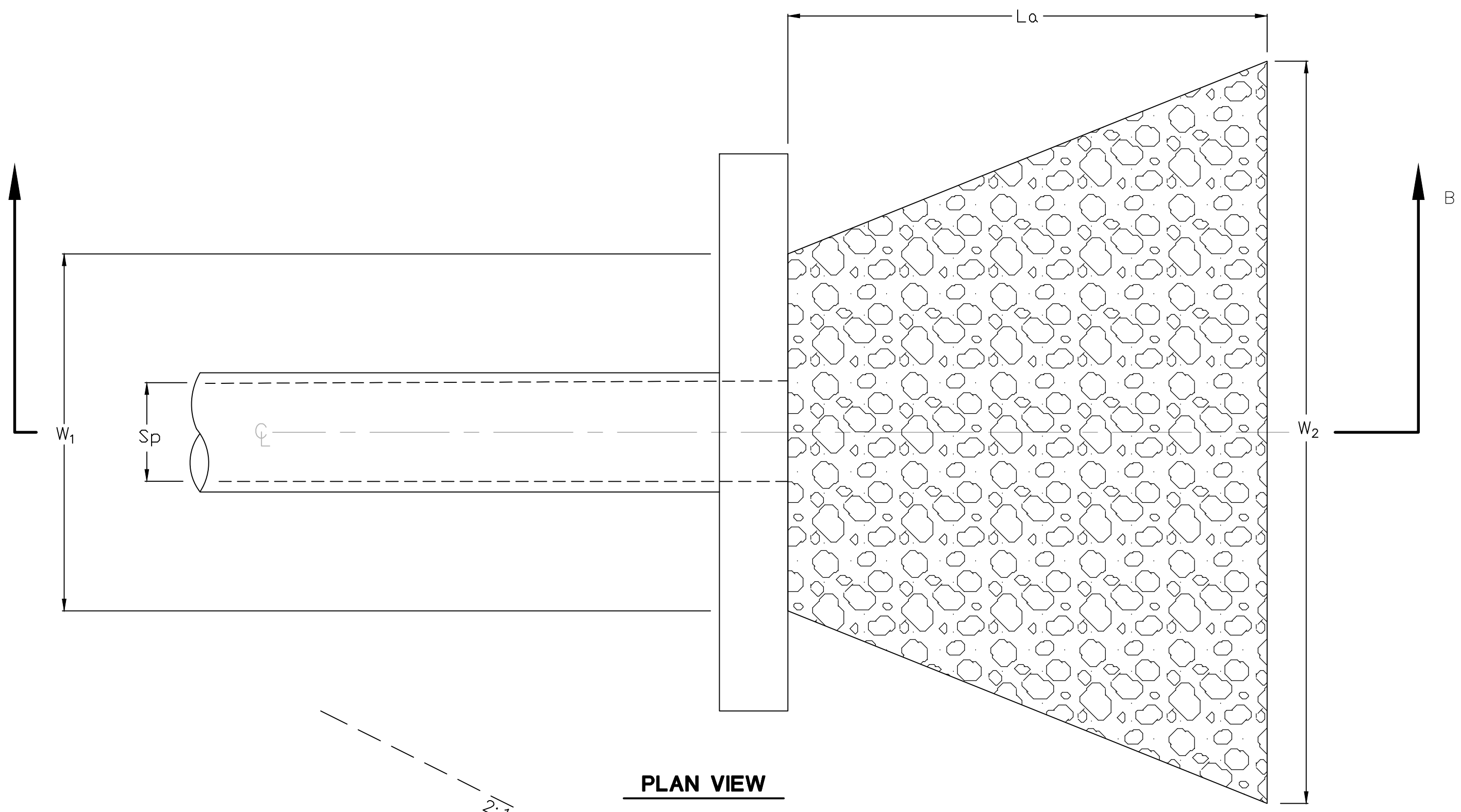
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NOT TO SCALE



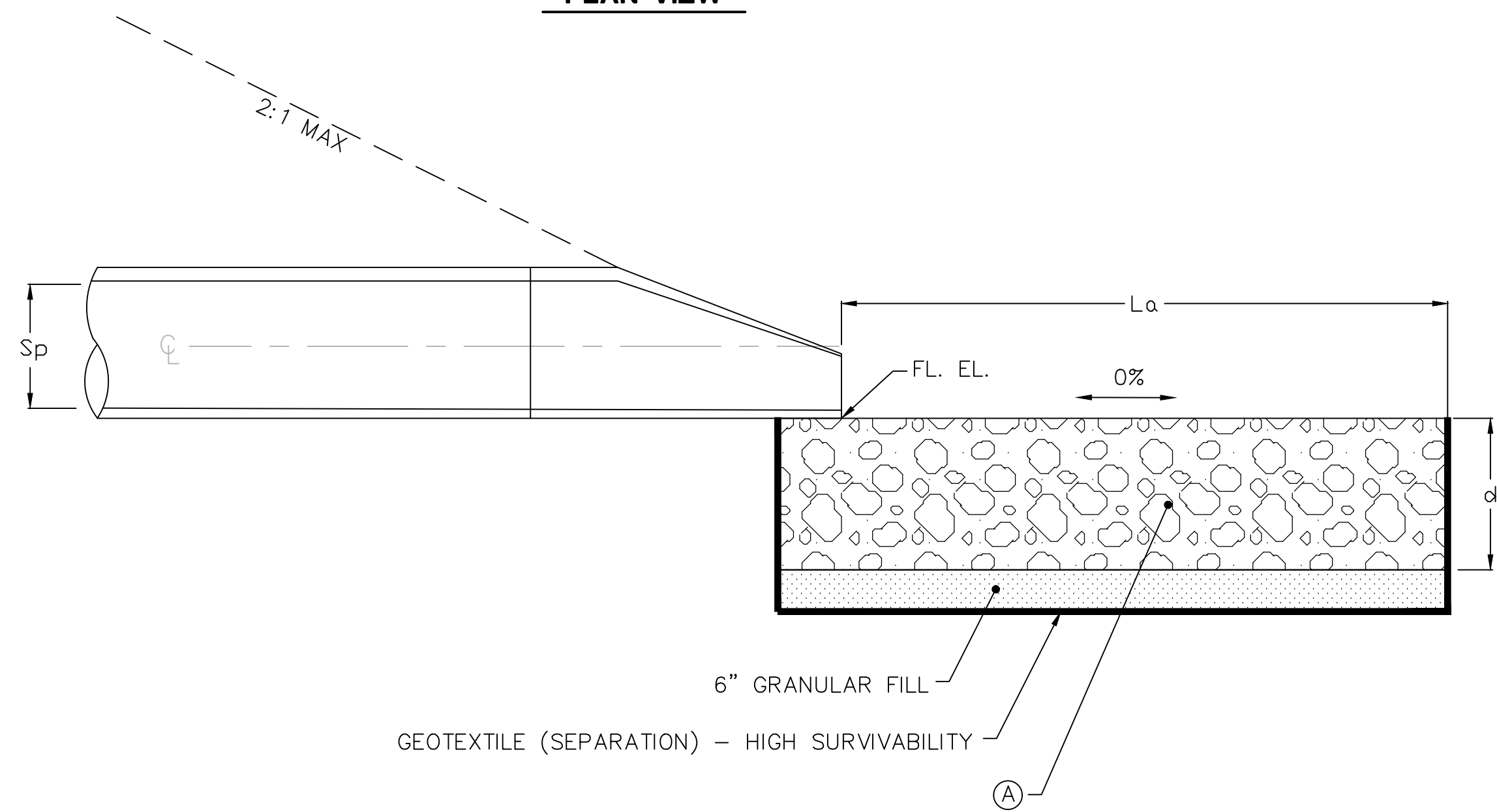
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NORTHBROOK DRIVE
NOT TO SCALE



PLAN VIEW



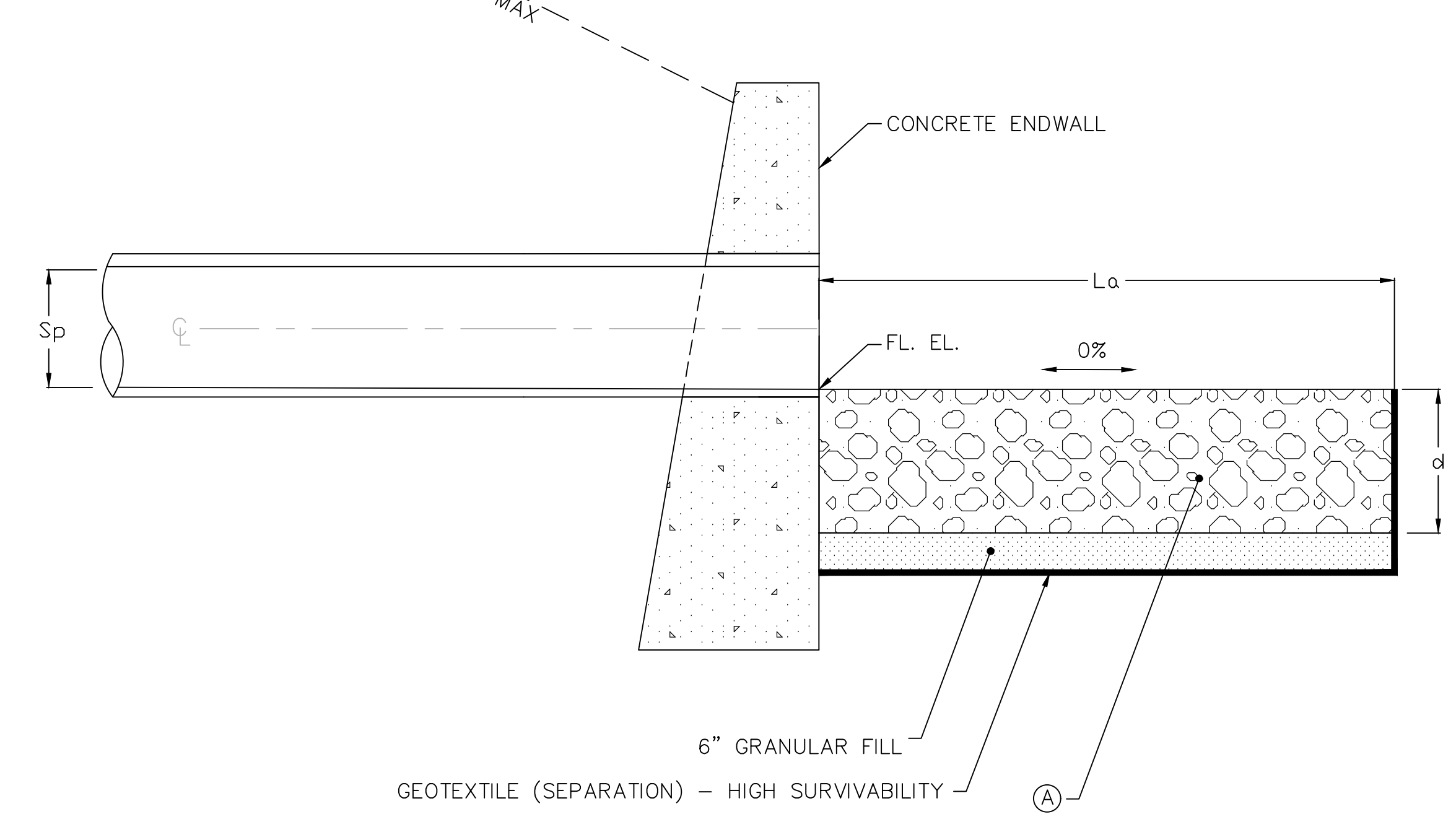
PLAN VIEW



SECTION A-A

RIPRAP APRON WITH CULVERT END

N.T.S.



SECTION B-B

RIPRAP APRON WITH ENDWALL

N.T.S.

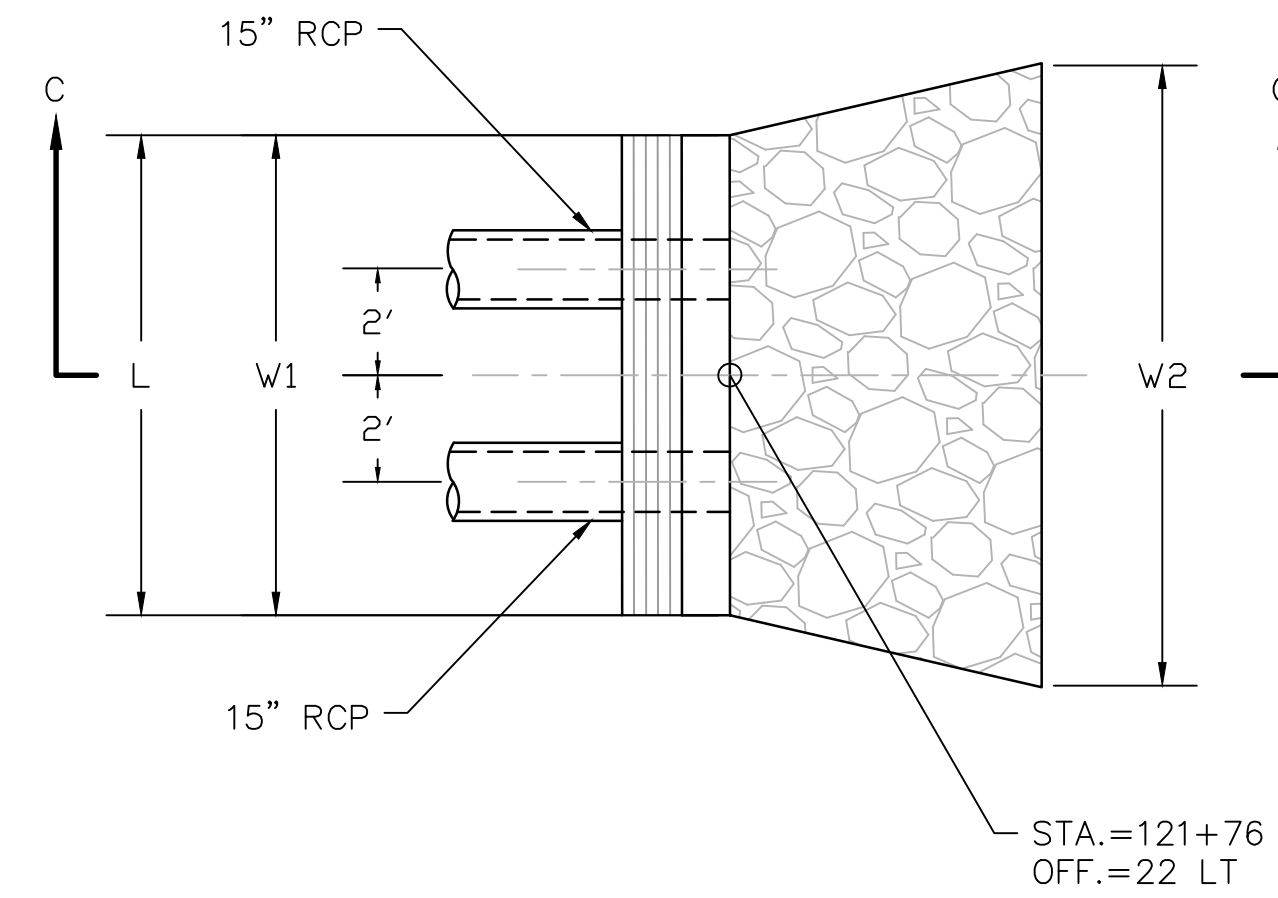
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PEPPER STREET	110+32, 111 LT	6.5'	3.75'	6.5'	15"	12"	MODIFIED RIPRAP	TYPE B	ENDWALL
PEPPER STREET	130+00, 39 LT	10'	3.75'	10.75'	15"	12"	MODIFIED RIPRAP	TYPE A	R.C. CULVERT END
COMMERCE DRIVE	20+68, 39 LT	10'	6'	13'	24"	18"	MODIFIED RIPRAP	TYPE A	ENDWALL

DESIGNED: _____
DRAWN: _____
CHECKED: _____
APPROVED: _____
SCALE: AS SHOWN
PROJECT NO.: 12C4326
DATE: 06/26/2019
CAD FILE: TMD512C432601

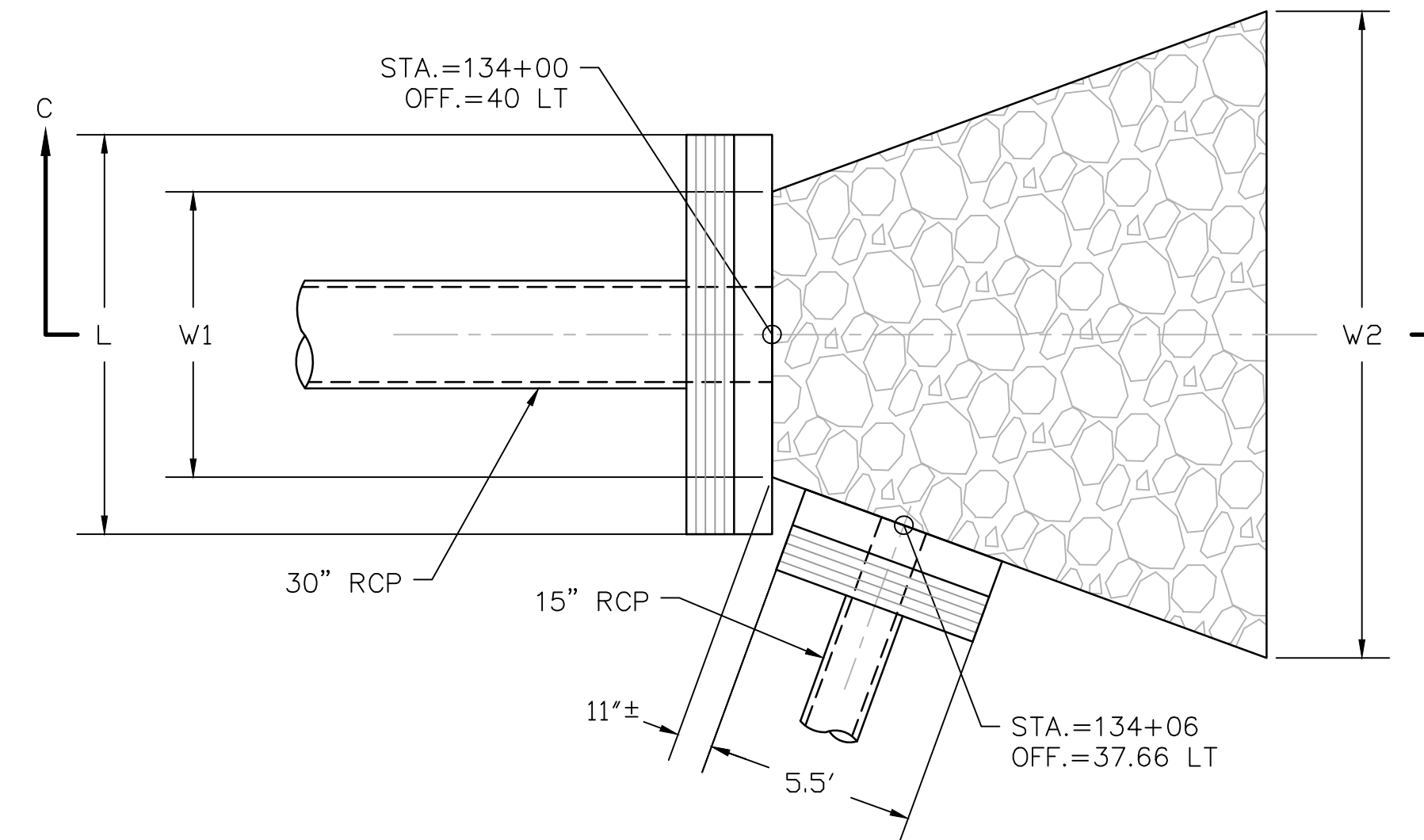
DESIGNED: _____ C.E.P.
DRAWN: _____ E.L.Z.
CHECKED: _____
APPROVED: _____

TITLE: MISCELLANEOUS DETAILS

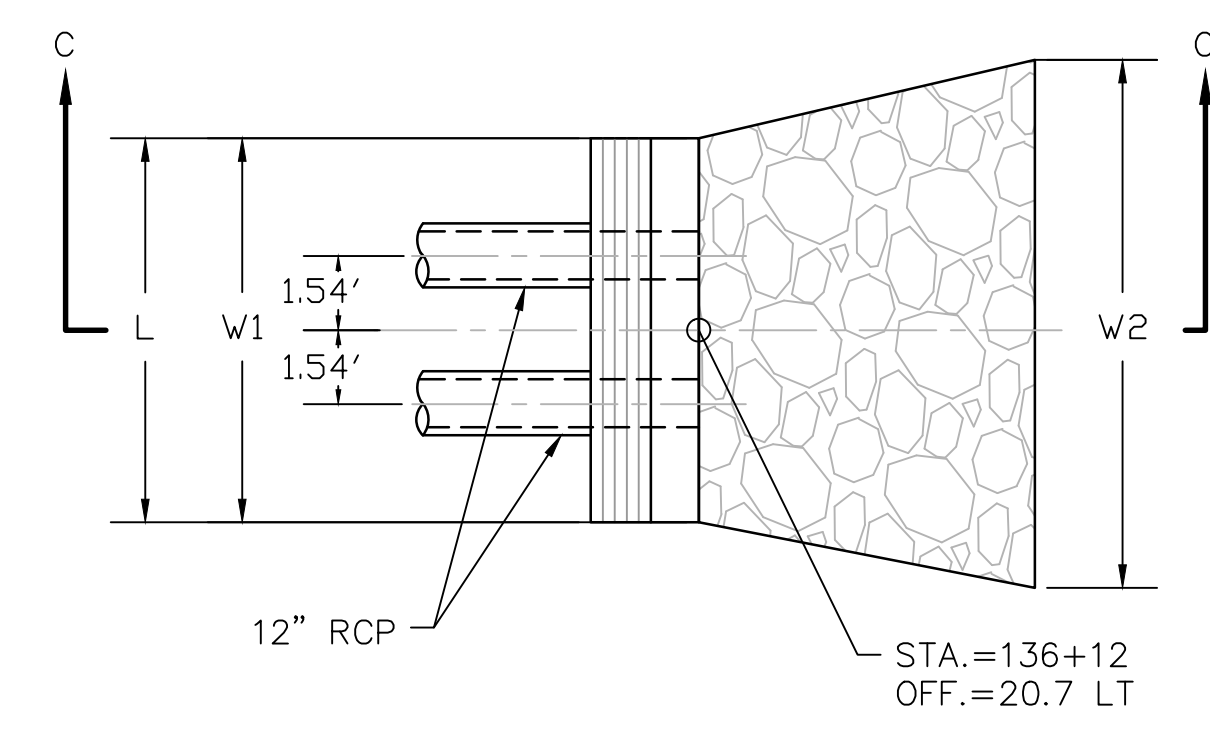
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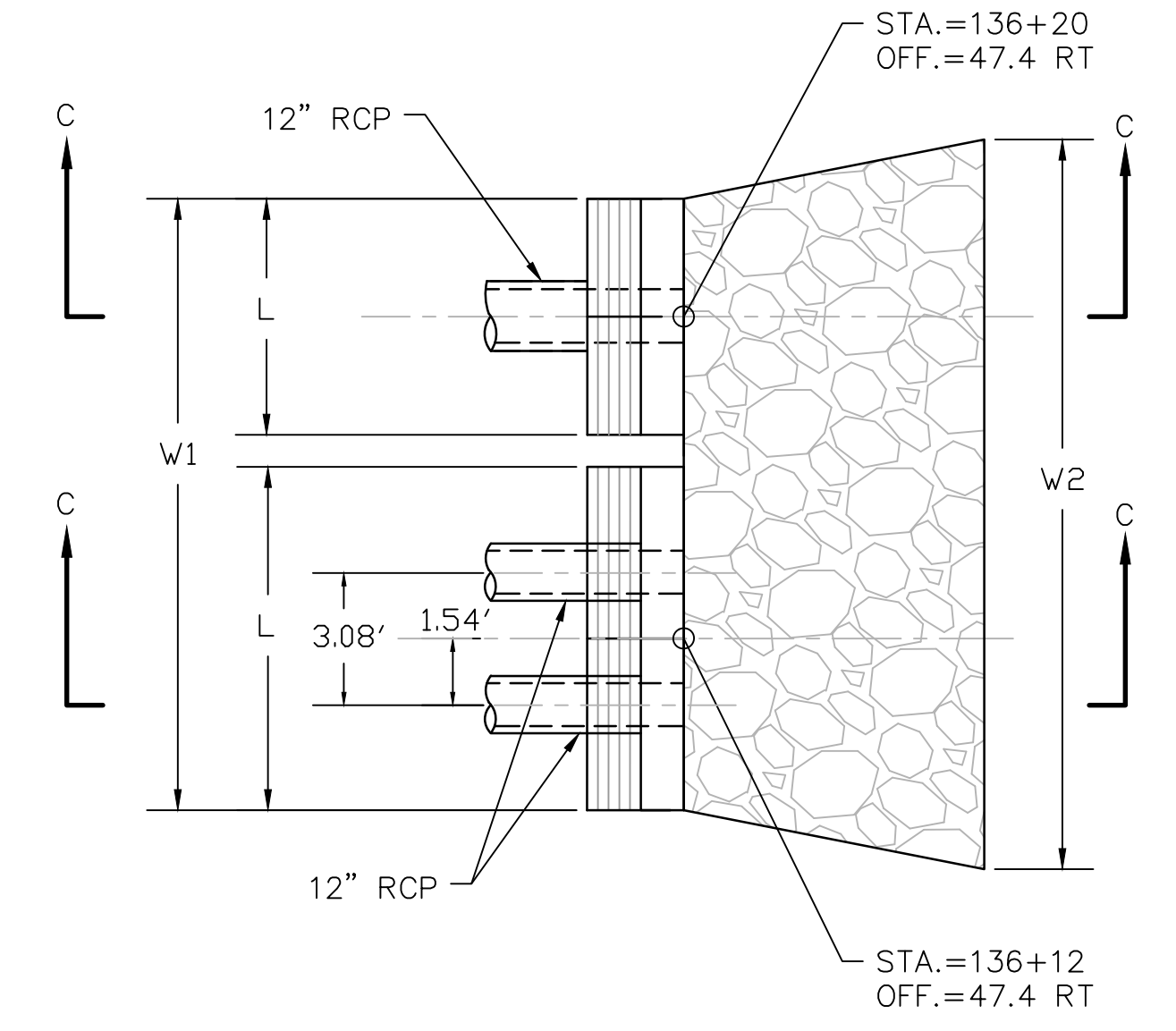
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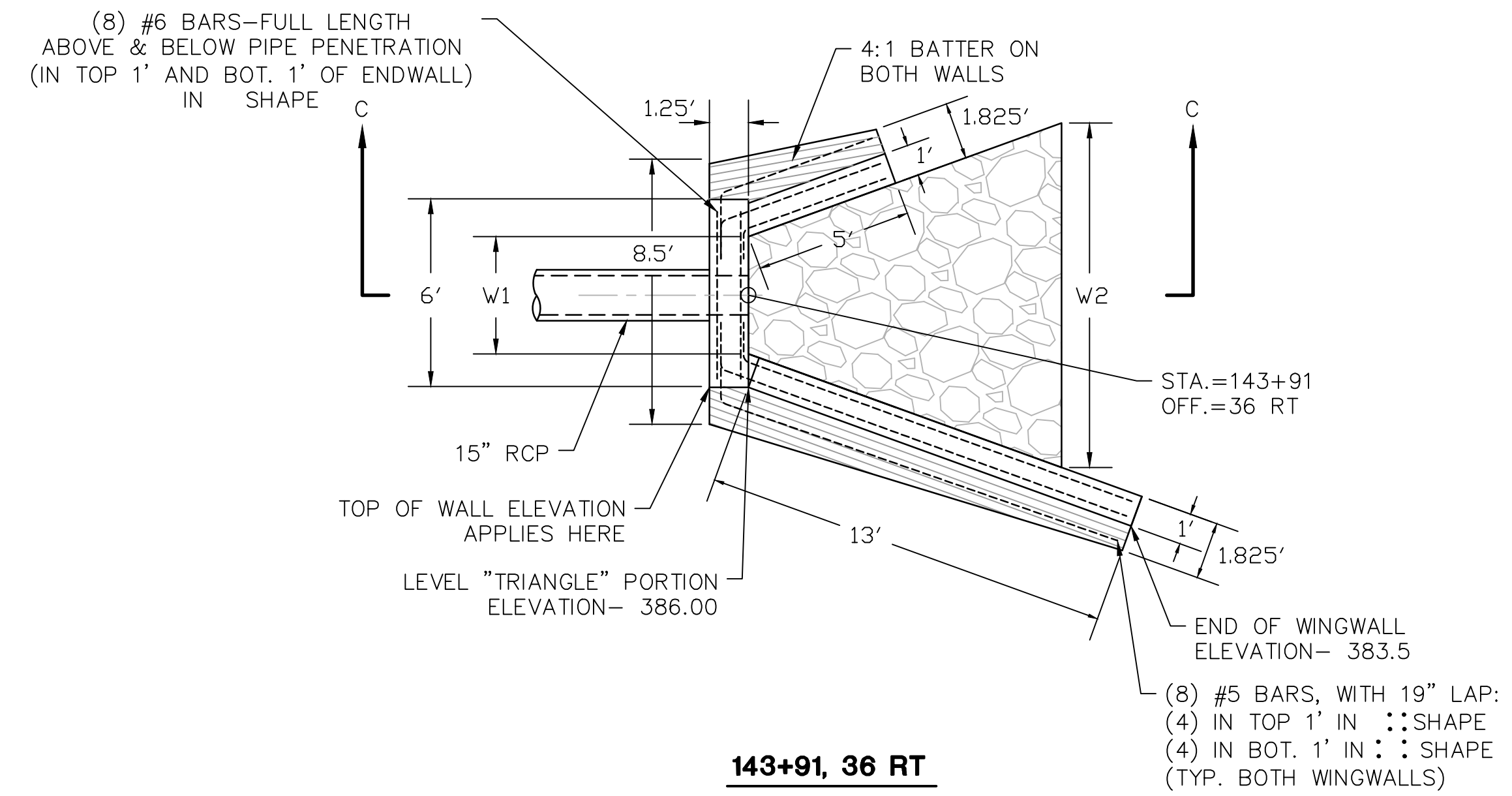
134+00, 40 LT AND 134+06, 37.66 LT



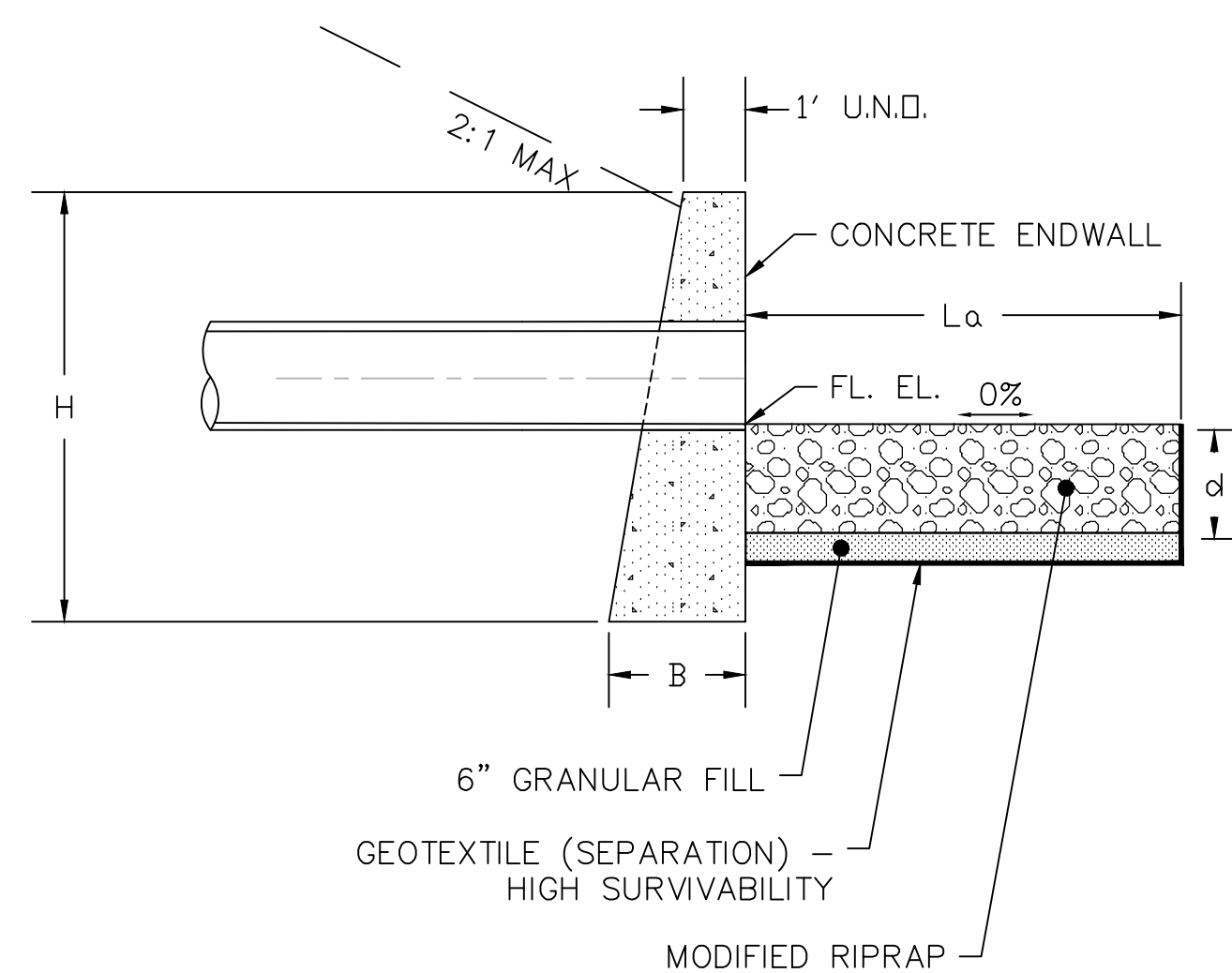
136+12, 20.7 LT



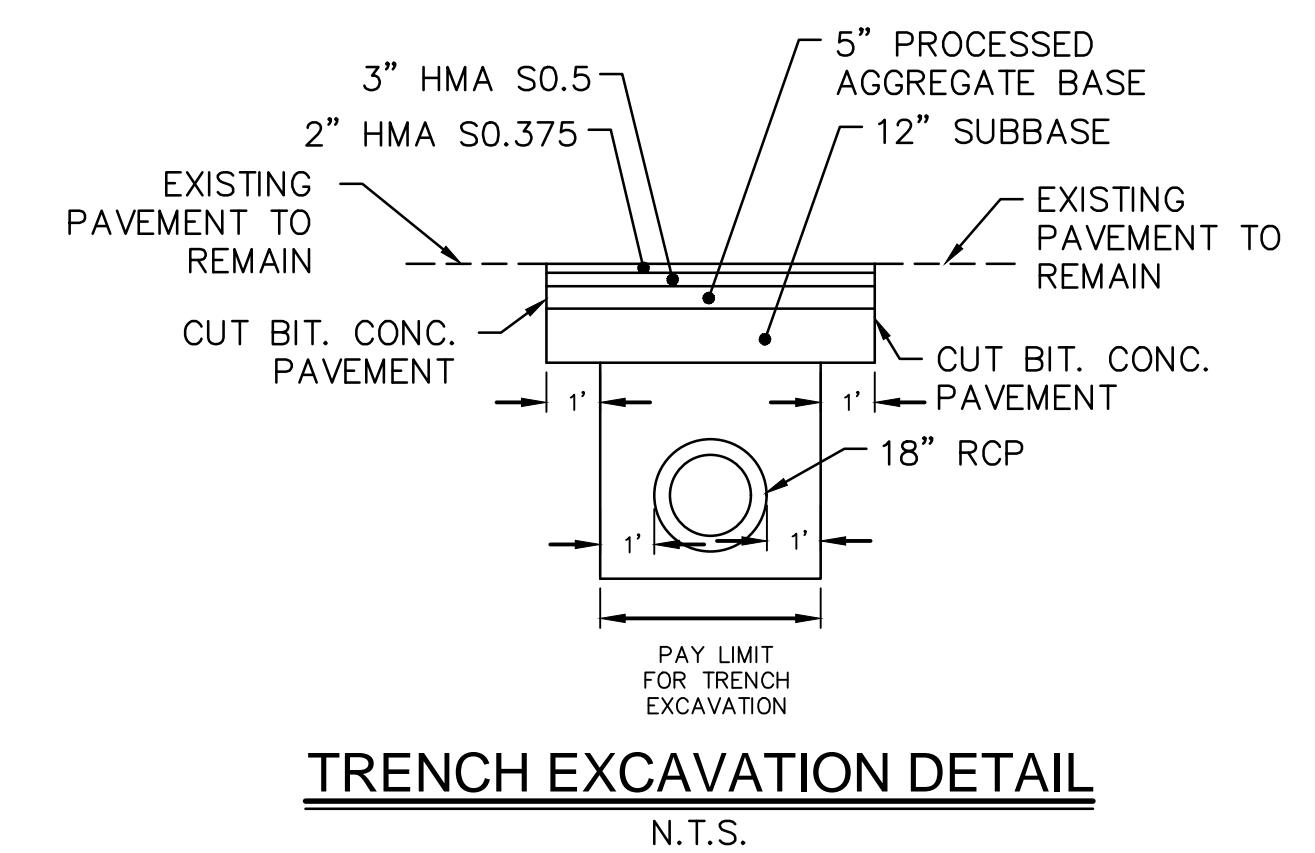
136+12, 47.4 RT AND 136+20, 47.4 RT



143+91, 36 RT



SECTION C-C



TRENCH EXCAVATION DETAIL
N.T.S.

STATION	La	W ₁	W ₂	L	H	B	TOP OF WALL ELEV.	d	APRON TYPE
121+76, 22 LT	6.5'	10'	13'	10'	8'	2.75'	422.00	12"	TYPE A
134+00, 40 LT	13'	8'	17'	10.5'	5.83'	2.25'	388.60	18"	TYPE A
134+06, 37.66 LT				5.5'	5.83'	2.25'	388.60		
136+12, 20.7 LT	7'	8'	11'	8'	5.08'	2.25'	386.25	12"	TYPE B
136+12, 47.4 RT	7'	14.25'	17'	8'	5'	2.5'	386.50	12"	TYPE B
136+20, 47.4 RT				5.5'	5'	2.5'	386.50		
143+91, 36 RT	10'	3.75'	11'	*SEE DETAIL		6.75'	387.00	12"	TYPE A

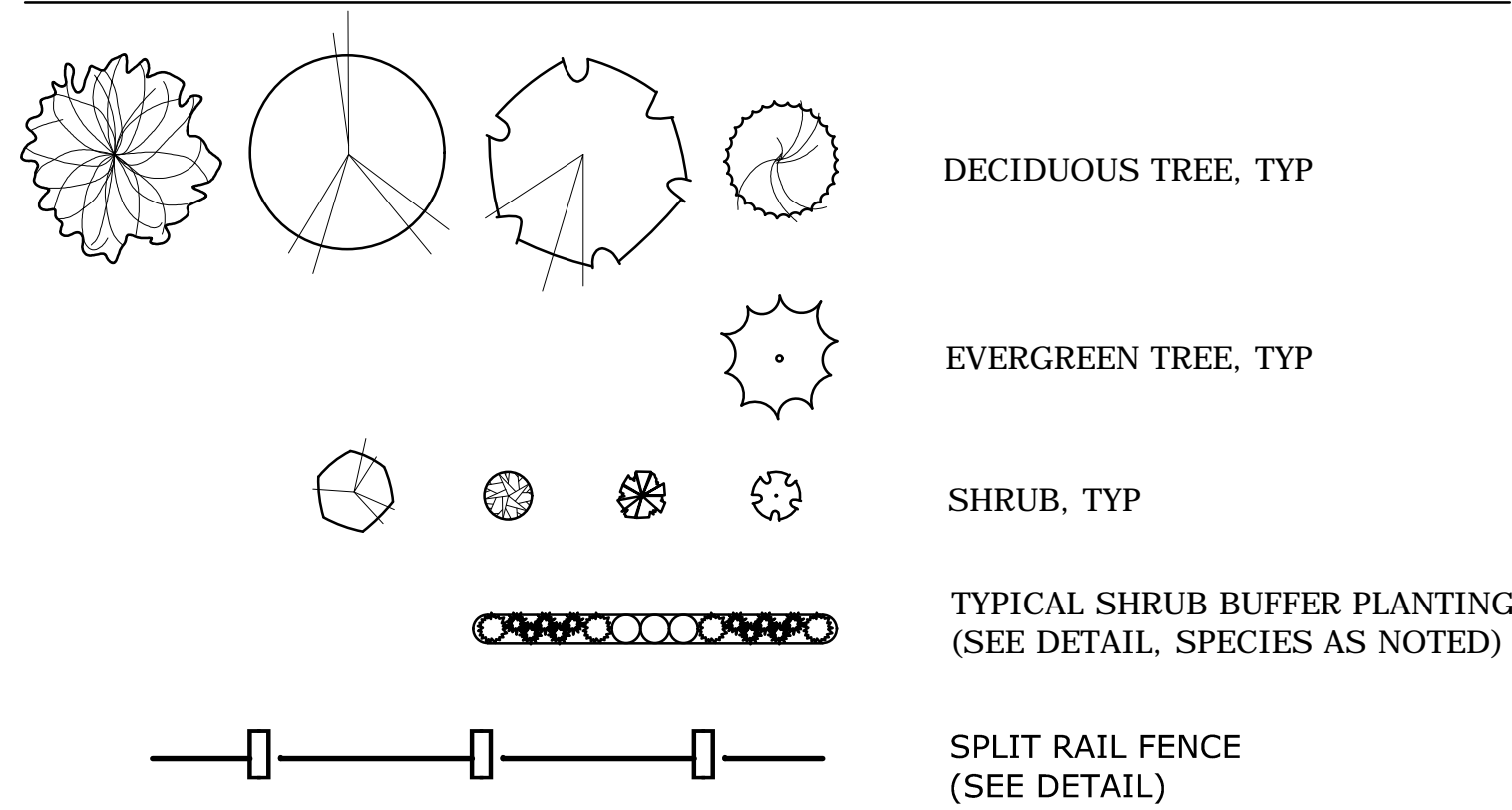
END WALL GENERAL NOTES:

- ALL CONSTRUCTION DIMENSIONS ARE NOMINAL.
- THESE ENDWALLS SHALL ONLY BE USED FOR LOCATIONS WHERE THEY ARE OUTSIDE THE DESIGN CLEAR ZONE.
- WALLS SHALL BE COMPOSED OF CLASS "A" CONCRETE.
- COST OF REINFORCING BARS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR CLASS "A" CONCRETE.
- ALL REINFORCING BARS SHALL HAVE 3" MINIMUM COVER.

6/26/2019, C:\STRAND, G. VORRELL\2019\12C432603\DWG\MDS-2 24X36 NTS.

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X012C433391 ; X012C433392

PLANTING LEGEND:



SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS

PLANT SCHEDULE:

DECIDUOUS TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	5	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	5	Acer x Freemannii 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	5	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	6	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

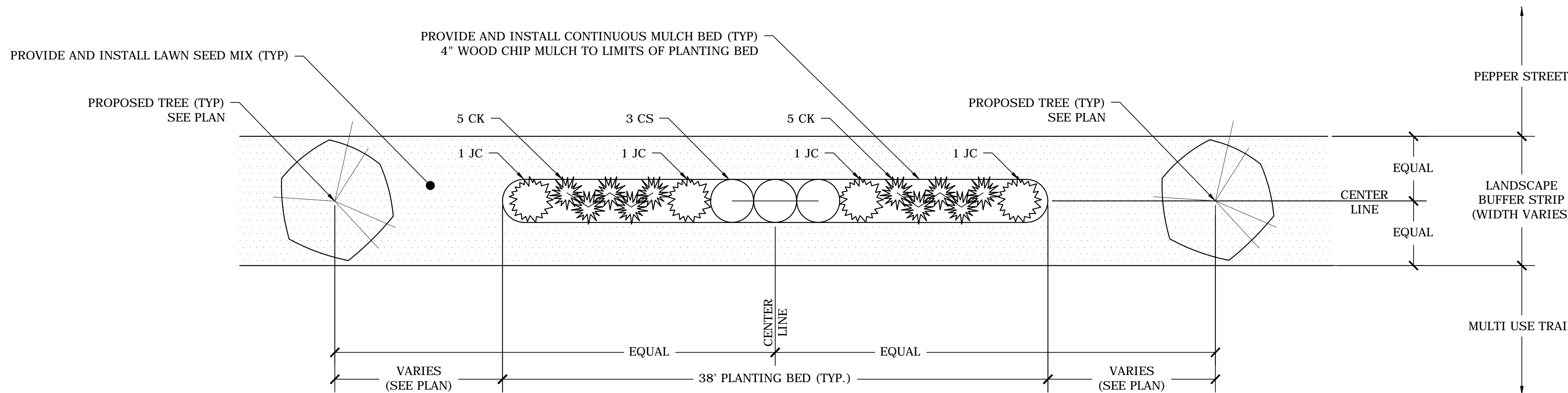
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	24	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

SHRUBS AND ORNAMENTAL GRASSES

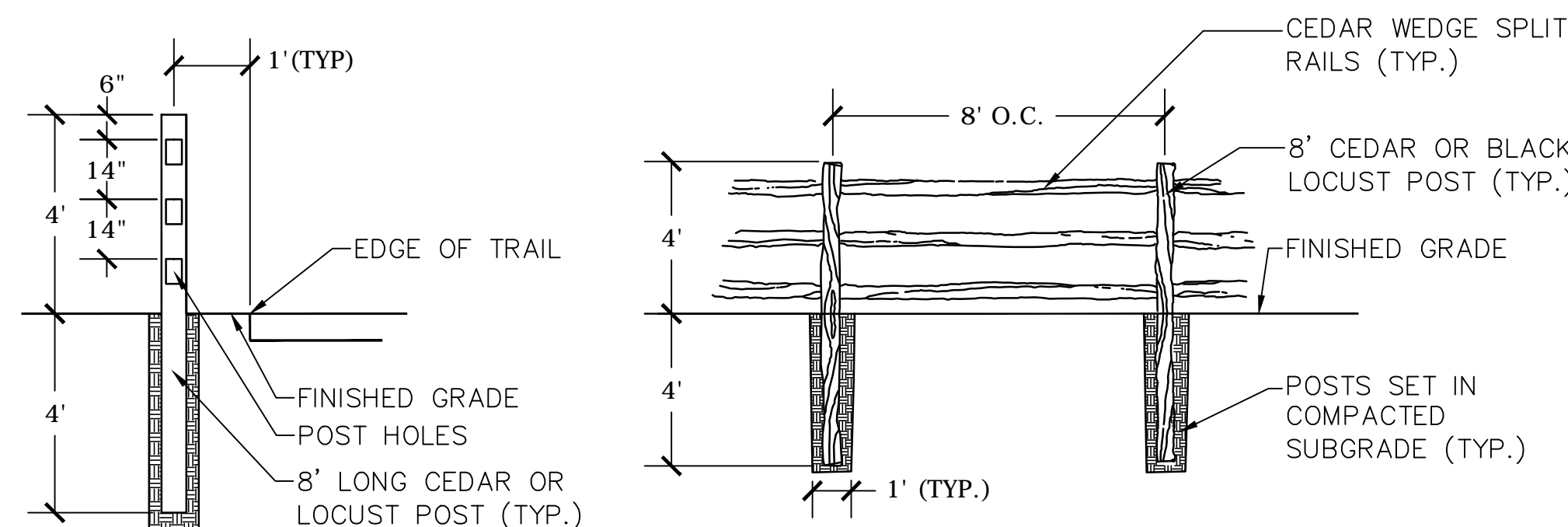
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	15	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	57	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	120	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	36	Cornus sericea 'Baileyi'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	9	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	63	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JC	48	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VD	60	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.

LANDSCAPE NOTES

1. THE LANDSCAPE PLAN AND DETAIL SHEET ARE FOR LANDSCAPING INFORMATION ONLY. REFER TO THE SITE PLAN AND THE GRADING, DRAINAGE AND UTILITIES PLAN FOR ALL OTHER INFORMATION.
2. PLANTING LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO FIELD ADJUSTMENT DUE TO UTILITY LOCATIONS AND SITE CONDITIONS. CONTRACTOR SHALL LAY OUT THE WORK FOR THE REVIEW, ADJUSTMENT, AND APPROVAL OF OWNER OR LANDSCAPE ARCHITECT PRIOR TO PLANTING.
3. THE LOCATIONS OF THE EXISTING UTILITIES AS DEPICTED HEREON SHALL BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL CONTACT CALL-BEFORE-YOU-DIG AT 1-800-922-4455 FOR MARK OUT OF UTILITIES 48 HOURS PRIOR TO ANY EXCAVATION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY. COST TO REPAIR ANY DAMAGE SHALL BE BORNE BY THE CONTRACTOR.
4. NO PLANT SHALL BE PLACED IN THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED.
5. PLANTING SOIL SHALL BE COMPRISED OF 3 PARTS NATIVE SOIL, 1 PART SCREENED TOPSOIL, AND 1 PART PEAT MOSS.
6. THE CONTRACTOR SHALL SUPPLY ALL LABOR, PLANTS, AND MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND LISTED IN THE PLANT SCHEDULE. WHEN QUANTITIES LISTED IN THE PLANT SCHEDULE DIFFER FROM THOSE REQUIRED BY THE DRAWINGS, THE LARGER QUANTITY SHALL BE USED.
7. LANDSCAPE PLANTING PITS MUST BE FREE DRAINING. PAVEMENT, COMPACTED SOIL, AND BLASTED ROCK SHALL BE REMOVED FROM PLANTING PITS AND LANDSCAPE AREAS TO A DEPTH OF 2' OR TO A GREATER DEPTH IF REQUIRED BY PLANTING DETAILS OR SPECIFICATIONS. REMOVE STONES AND DEBRIS 1" OR GREATER IN DIAMETER AND ALL OTHER MATERIAL HARMFUL TO PLANT DEVELOPMENT.
8. PLANT REQUIREMENTS: ALL PLANTS SHALL CONFORM IN SIZE AND GRADE TO THE AMERICAN STANDARD FOR NURSERY STOCK, ANSI Z60.1 (LATEST EDITION). ALL PLANTS SHALL MEET THE ADDITIONAL REQUIREMENTS SET FORTH BELOW AND IN WRITTEN SPECIFICATIONS AS APPLICABLE. ALL TREES AND SHRUBS SHALL HAVE BEEN GROWN AT A COMMERCIAL NURSERY WITHIN 200 MILES OF THE PROJECT SITE UNLESS OTHERWISE APPROVED BY OWNER OR LANDSCAPE ARCHITECT. THEY SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY. THEY SHALL BE HEALTHY, SYMMETRICAL, EVENLY AND DENSELY BRANCHED, AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF BARK INJURY, DISEASE, AND INSECT PESTS. ALL TREES SHALL HAVE A STRAIGHT TRUNK WITH A SINGLE MAIN LEADER UNLESS OTHERWISE CHARACTERISTIC OF THE SPECIES OR VARIETY. THE OWNER OR LANDSCAPE ARCHITECT WILL ALLOW SUBSTITUTIONS ONLY UPON WRITTEN APPROVAL. SIZES SHALL CONFORM TO THE MEASUREMENT SPECIFIED ON THE DRAWINGS. PLANTS LARGER THAN SPECIFIED MAY BE USED IF APPROVED. THE USE OF SUCH PLANTS SHALL NOT INCREASE THE CONTRACT PRICE. ALL OVERSTORY TREES PLANTED ALONG PARKING AREAS, SIDEWALKS AND PEDESTRIAN ACCESSES SHALL NOT BRANCH BELOW 6' FEET IF THE TREE CALIPER IS 2 1/2" INCHES OR GREATER. ALL PLANT MATERIALS ARE SUBJECT TO INSPECTION AND ACCEPTANCE BY THE OWNER OR LANDSCAPE ARCHITECT AT THE NURSERY SOURCE. THE CONTRACTOR SHALL COORDINATE SOURCE VISITS WITH THE LANDSCAPE ARCHITECT AND SHALL ACCOMPANY THE OWNER AND/OR LANDSCAPE ARCHITECT FOR ALL INSPECTIONS. CERTIFICATES OF COMPLIANCE WITH SPECIFICATIONS ARE REQUIRED FOR ALL PLANTS.
9. ALL PLANT BEDS SHALL BE MULCHED TO THE DEPTH INDICATED ON THE DETAILS. PROVIDE A CONTINUOUS MULCH BED FOR AREAS WHERE TREES AND SHRUBS ARE SPACED LESS THAN 10' ON CENTER.
10. GUARANTEE: GUARANTEE ALL PLANTS AND LAWNS FOR A MINIMUM OF 1 YEAR TO BE ALIVE AND IN VIGOROUS GROWING CONDITION AT THE END OF THE GUARANTEE PERIOD. THE GUARANTEE PERIOD FOR ALL PLANTS SHALL BEGIN UPON APPROVAL AS SPECIFIED UNDER SEMI-FINAL ACCEPTANCE. PLANT MATERIALS AND LAWNS APPROVED IN THE SPRING SHALL BE ALIVE AND IN SATISFACTORY GROWTH ON JUNE 1 OF THE FOLLOWING YEAR; PLANTING DONE IN LATE FALL (AFTER NOVEMBER 1ST) SHALL BE MAINTAINED AND GUARANTEED UNTIL THE SECOND SPRING'S LEAFING. REPLACEMENTS: ALL PLANTS SHALL BE FREE OF DEAD OR DYING BRANCHES AND BRANCH TIPS, AND SHALL BEAR FOLIAGE OF A NORMAL DENSITY, SIZE AND COLOR. PROMPTLY REMOVE DEAD, UNSIGHTLY, UNHEALTHY, OR EXCESSIVELY PRUNED PLANTS. THESE AND ANY PLANTS MISSING DUE TO THE CONTRACTOR'S NEGLIGENCE, SHALL BE REPLACED OR ADDED WITH THE SAME KIND AND SIZE AS ORIGINALLY SPECIFIED AS SOON AS CONDITIONS PERMIT. METHOD OF REPLACEMENT SHALL BE THE SAME AS SPECIFIED FOR THE ORIGINAL PLANTING WITH REPLACEMENTS MATCHING ADJACENT SPECIMENS OF THE SAME SPECIES. REPLACEMENTS SHALL BE MADE AS MANY TIMES AS NECESSARY TO ENSURE HEALTHY PLANTS AND THEY SHALL BE MAINTAINED AND GUARANTEED. REPLACEMENTS SHALL BE MADE AT THE CONTRACTOR'S EXPENSE AND SHALL BE GUARANTEED FOR ONE FULL YEAR FROM TIME OF REPLACEMENT.
11. ALL SLOPES STEEPER THAN 2:1 RECEIVING A LAWN SEED MIXTURE SHALL BE COVERED WITH AN EROSION CONTROL BLANKET OF STRAW FIBER AND BIODEGRADABLE OR PHOTODEGRADABLE NETTING.
12. UNLESS OTHERWISE NOTED IN DRAWING SET, NEW TREELINES SHALL EQUAL CLEARING AND GRUBBING LIMITS.
13. ALL DISTURBED AREAS NOT OTHERWISE DEVELOPED SHALL BE SEEDED WITH THE LAWN SEEDING MIXTURE.
14. IF SHEET IS LESS THAN 24" X 36" IT IS A REDUCED PRINT AND SHOULD BE SCALED ACCORDINGLY.
15. REFER TO PROJECT SPECIFICATIONS MANUAL FOR ADDITIONAL INFORMATION.



TYPICAL SHRUB BUFFER PLANTING



POST SECTION

ELEVATION

PRUNING SHALL BE IN ACCORDANCE WITH APPROVED HORTICULTURAL STANDARDS IN ORDER TO PRESERVE THE NATURAL FORM OF THE SPECIFIC PLANTS

CUT BURLAP AND WIRE BASKETS, REMOVE FROM TOP 1/3 OF ROOT BALL

4" WOOD CHIP MULCH TO EDGE OF EXCAVATION (PROVIDE A CONTINUOUS MULCH BED FOR AREAS WHERE TREES AND SHRUBS ARE SPACED LESS THAN 10' ON CENTER)

PLANTING SOIL (SEE LANDSCAPE NOTES)

1:1 SLOPED SIDES (SCARIFY GLAZED OR HARDENED SURFACES)

KEEP MULCH OFF TRUNK OF TREE

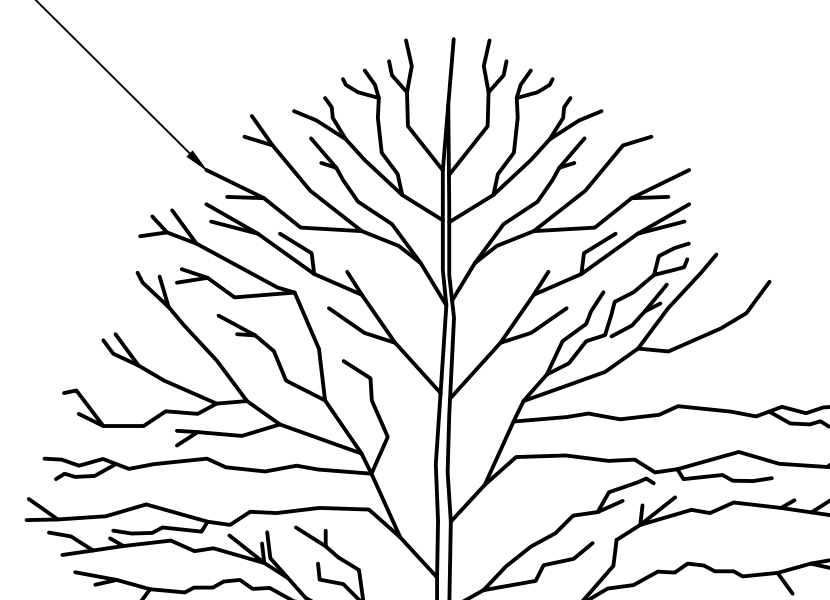
SET TOP OF ROOT BALL 0"-2" ABOVE FINISHED GRADE

FINISHED GRADE

PROVIDE AND INSTALL ROOT CONTROL FABRIC ON THE ROAD SIDE ONLY FOR ALL TREE PITS (INSTALL PER MANUFACTURER DETAILS AND SPECIFICATIONS) (ROOT CONTROL FABRIC NOT NEEDED FOR SHRUBS)

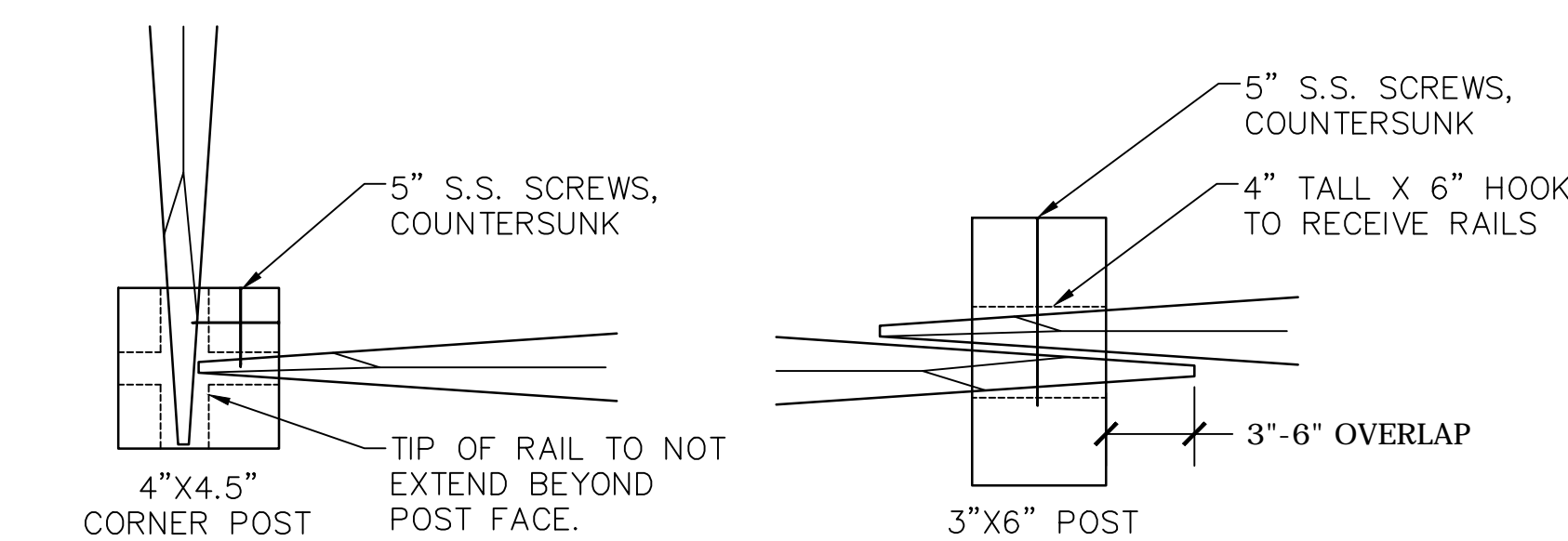
3" MIN.

EQUALS TWICE ROOT BALL DIAMETER



TREE AND SHRUB PLANTING

NOTE: PLANTING DETAIL SHALL APPLY FOR ALL DECIDUOUS AND EVERGREEN TREES AND SHRUBS

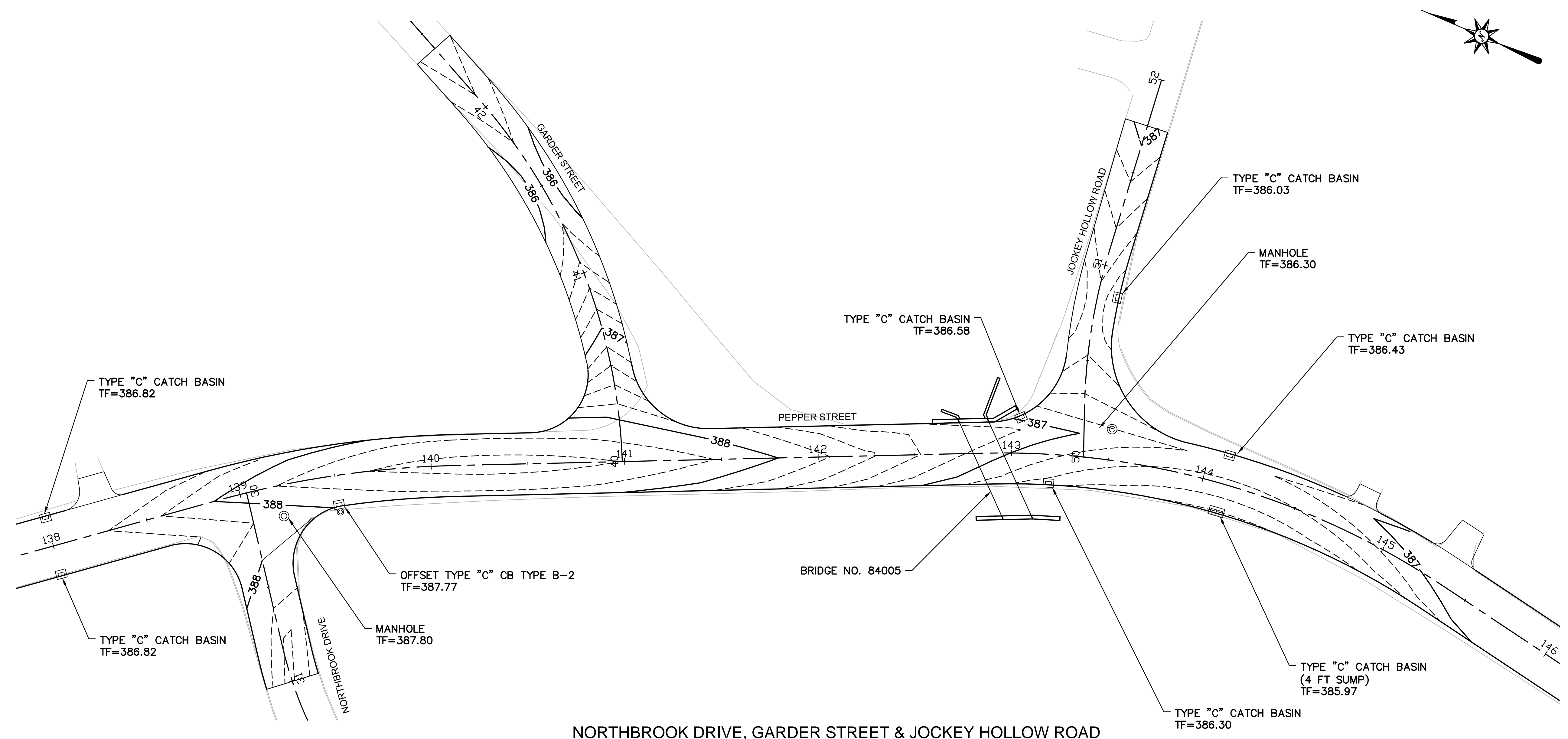


RAILS TO POSTS ENLARGEMENT

SPLIT-RAIL FENCE

N.T.S.

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**



NORTHBROOK DRIVE, GARDER STREET & JOCKEY HOLLOW ROAD

NOTE: MINOR CONTOURS ARE SHOWN AT 0.2' INTERVALS

No.	Date	Desc.

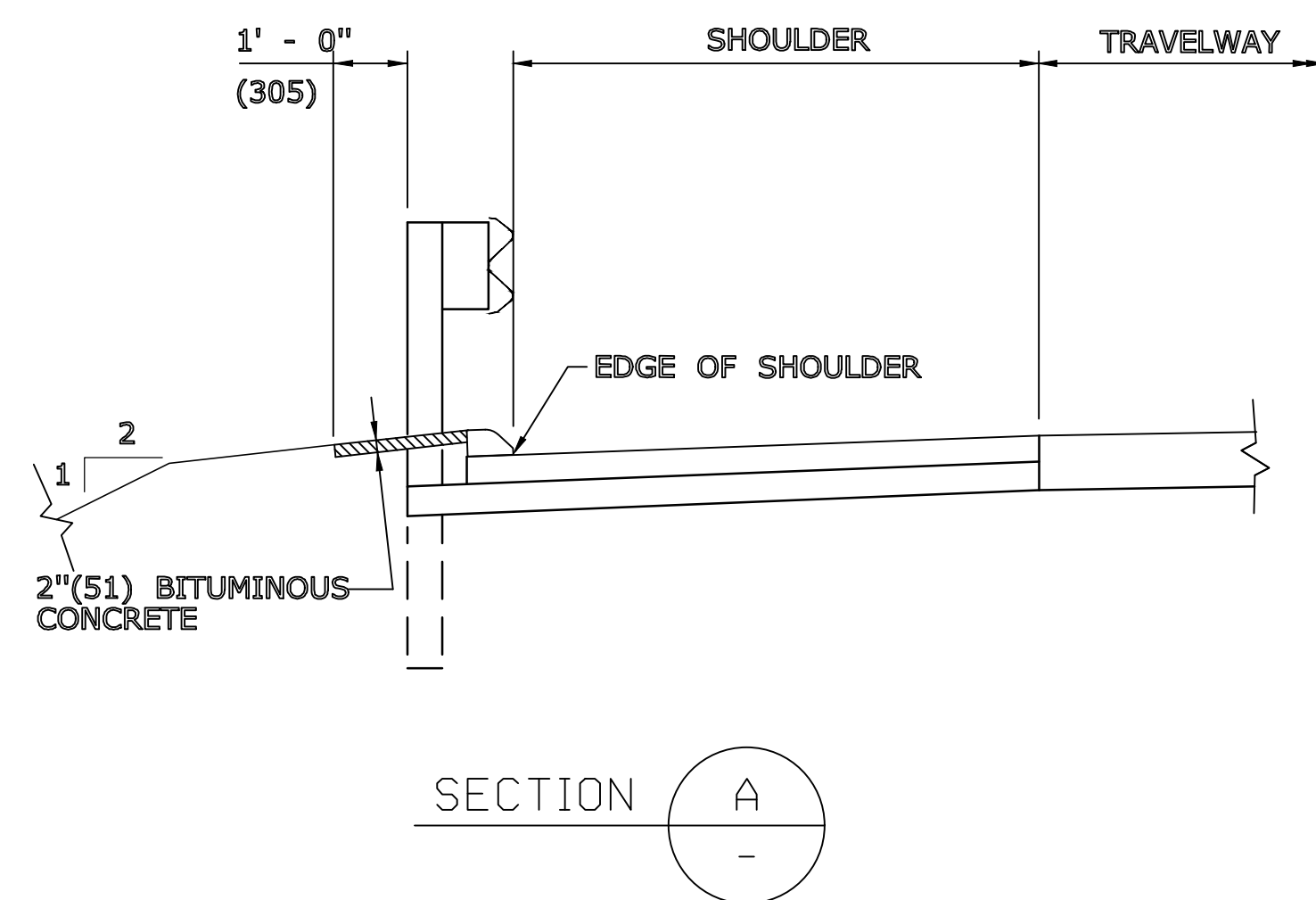
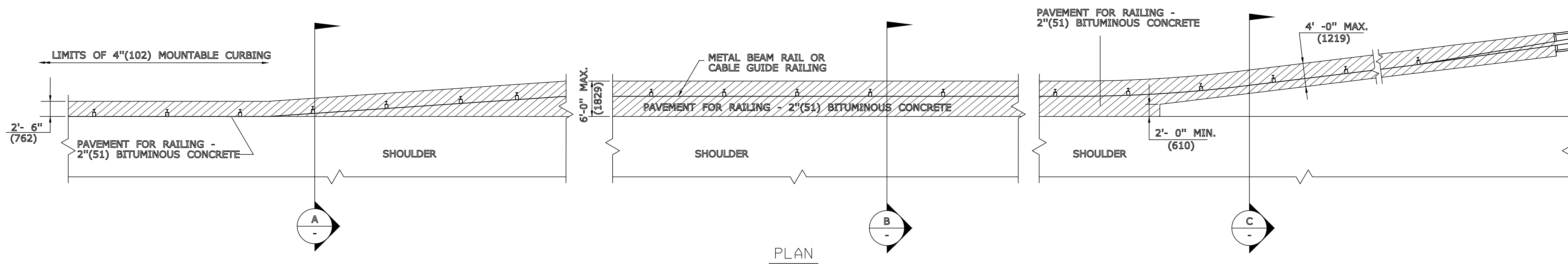
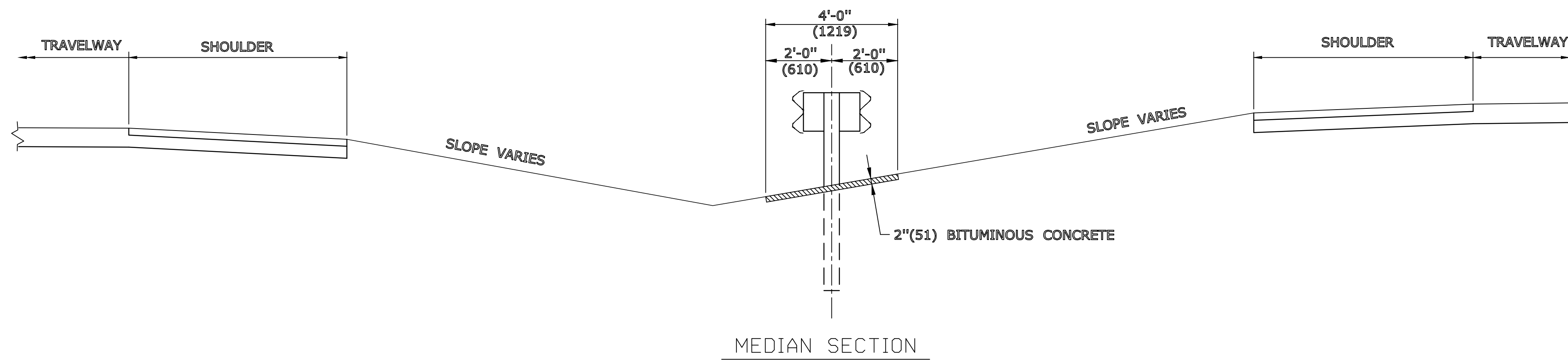
Designed	C.E.P.
Drawn	E.L.Z.
Checked	
Approved	
Scale	1"=30'
Project No.	12C4326
Date	06/26/2019
CAD File:	TMD512C432601

Title	INTERSECTION GRADING DETAILS
Sheet No.	

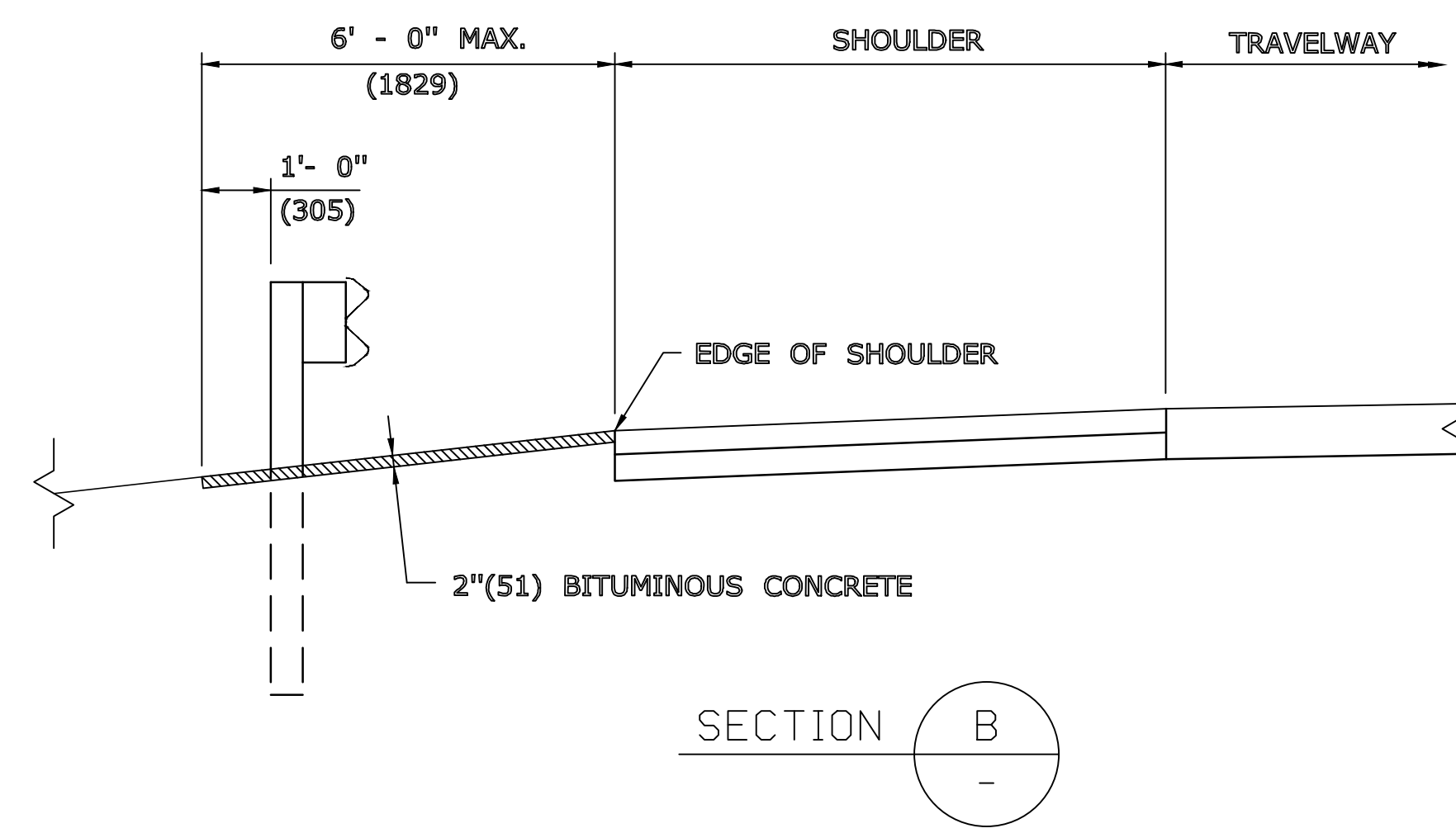
MDS-5

GENERAL NOTES:

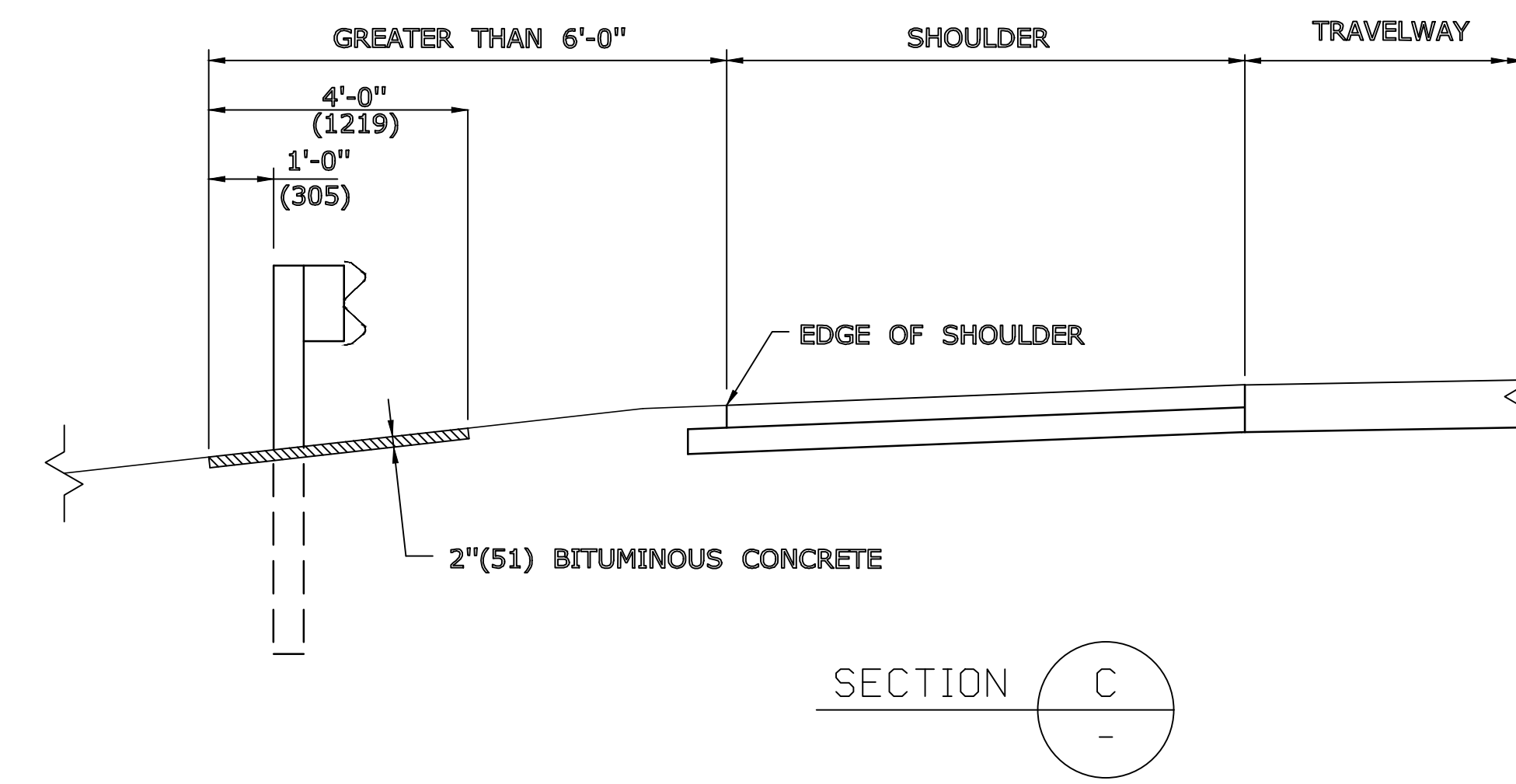
1. PAVEMENT FOR RAILING SHALL BE USED ONLY AT THE FOLLOWING LOCATIONS:
 - A) WITHIN A MAPPED AQUIFER PROTECTION AREA.
 - B) AT THE APPROACHES TO BRIDGES OVER STREAMS AND RIVERS FOR A MINIMUM LENGTH OF 50'(15m).
 - C) WHEN THE RIVER OR STREAM IS LESS THAN 50'(15m) FROM THE EDGE OF ROAD AND PARALLELING IT.
 - D) WITHIN OR ABUTTING WATER COMPANY OWNED AREA.
2. WHEN PAVEMENT FOR RAILING IS NOT REQUIRED, PROCESSED AGGREGATE SHALL BE USED UNDER RAILING. SEE HW-910.02 AND 03.



RAIL WITH 4"(102) MOUNTABLE CURBING



RAIL WITHOUT CURBING
TYPICAL CROSS SECTIONS



TRANSITION OR OFFSET RAIL

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

REVISIONS	No.	Date	Desc.

Designed	O.L.C.
Drawn	O.L.C.
Checked	
Approved	
Scale	N.T.S.
Project No.	12C4326
Date	06/26/2019
CAD File:	TMS12C432601
Title	MISCELLANEOUS DETAILS
Sheet No.	

LEGEND:

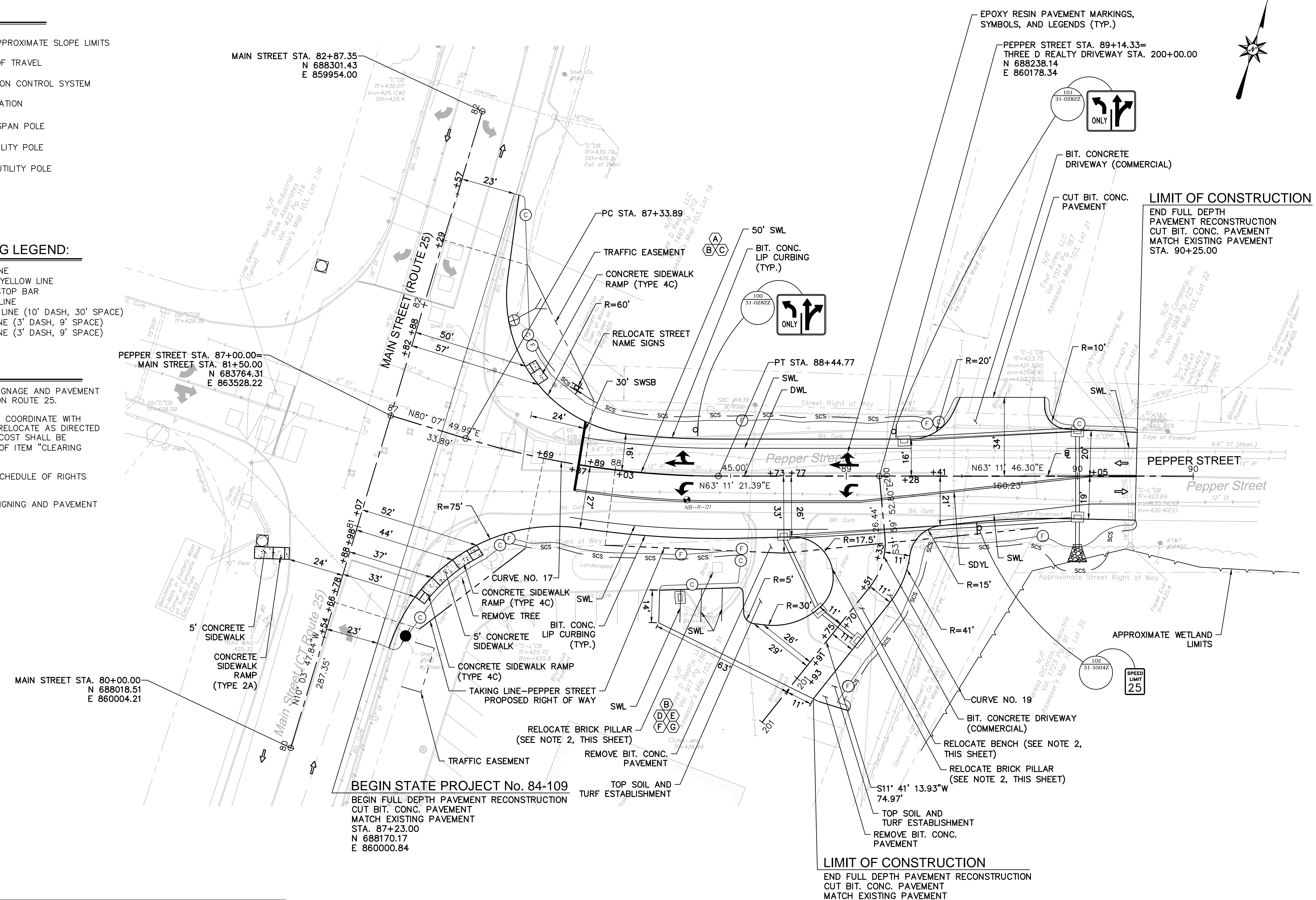
- FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION
- PROPOSED SPAN POLE
- EXISTING UTILITY POLE
- PROPOSED UTILITY POLE
- CONCRETE

PAVEMENT MARKING LEGEND:

- SWL 4" SOLID WHITE LINE
- SDYL 4" SOLID DOUBLE YELLOW LINE
- SWSB 12" SOLID WHITE STOP BAR
- SYL 4" SOLID YELLOW LINE
- BWL 4" BROKEN WHITE LINE (10' DASH, 30' SPACE)
- DWL 4" DASH WHITE LINE (3' DASH, 9' SPACE)
- DDWL 8" DASH WHITE LINE (3' DASH, 9' SPACE)

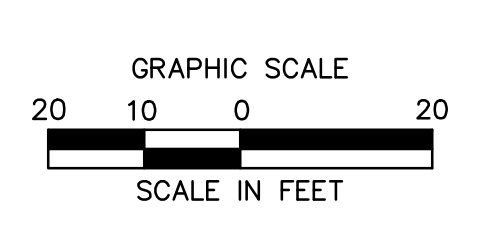
NOTES:

1. REFER TO TCS-1 FOR SIGNAGE AND PAVEMENT MARKING INFORMATION ON ROUTE 25.
2. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER AND RELOCATE AS DIRECTED BY THE ENGINEER. THE COST SHALL BE INCLUDED IN THE COST OF ITEM "CLEARING AND GRUBBING".
3. REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.
4. REFER TO GEN-1 FOR SIGNING AND PAVEMENT MARKING NOTES.



CURVE DATA

CURVE NO.		NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
CURVE NO. 19	PC	688215.72	860192.35	43°41'07"	30.0'	12.03'	22.9'
	PI	688205.52	860198.72				
	PT	688193.75	860196.28				
CURVE NO. 17	PC	688172.01	860011.39	16°56'29"	375.0'	55.85'	110.9'
	PI	688181.58	860066.41				
	PT	688206.77	860116.25				



6/26/2019, CHASTRAND, G. VORRELL\12C\12C432601.DWG, THWY-01, 24X36, 20SC

NOTES:

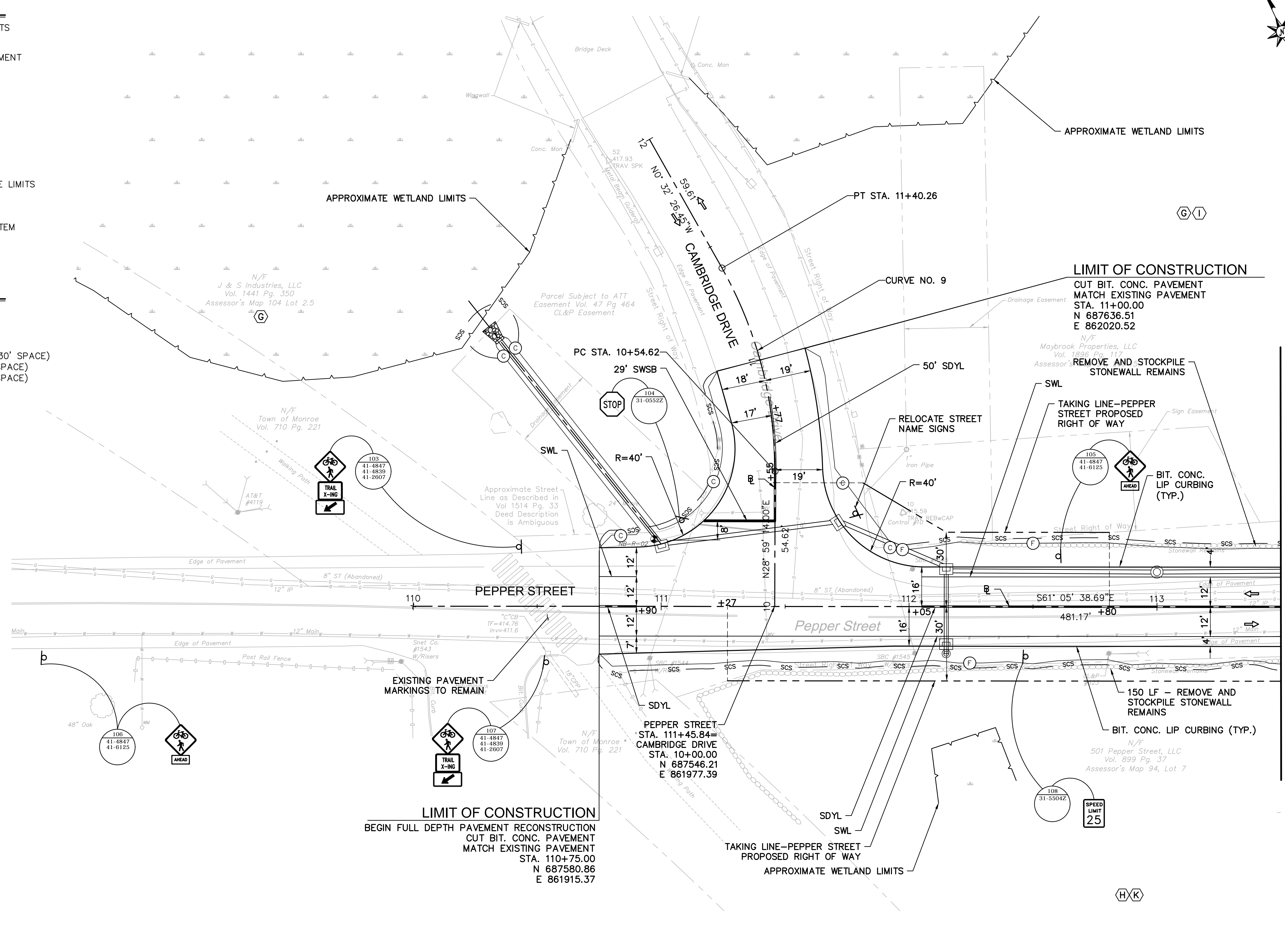
- REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.
- REFER TO GEN-1 FOR SIGNING AND PAVEMENT MARKING NOTES.

LEGEND:

- FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION

PAVEMENT MARKING LEGEND:

- SWL 4" SOLID WHITE LINE
- SDYL 4" SOLID DOUBLE YELLOW LINE
- SWSB 12" SOLID WHITE STOP BAR
- SYL 4" SOLID YELLOW LINE
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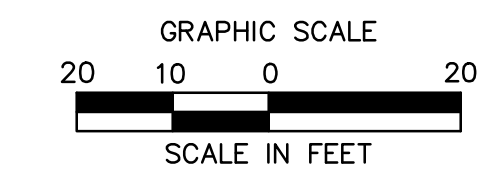


LIMIT OF CONSTRUCTION
BEGIN FULL DEPTH PAVEMENT RECONSTRUCTION
CUT BIT. CONC. PAVEMENT
MATCH EXISTING PAVEMENT
STA. 110+75.00
N 687580.86
E 861915.37

LIMIT OF CONSTRUCTION
CUT BIT. CONC. PAVEMENT
MATCH EXISTING PAVEMENT
STA. 11+00.00
N 687636.51
E 862020.52

PEPPER STREET
STA. 111+45.84=
CAMBRIDGE DRIVE
STA. 10+00.00
N 687546.21
E 861977.39

CURVE DATA							
CURVE NO.		NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
CURVE NO. 9	PC	687594.35	862003.83	29°31'40"	166.2'	43.79'	85.6'
	PI	687632.65	862025.05				
	PT	687676.44	862024.64				



LEGEND:

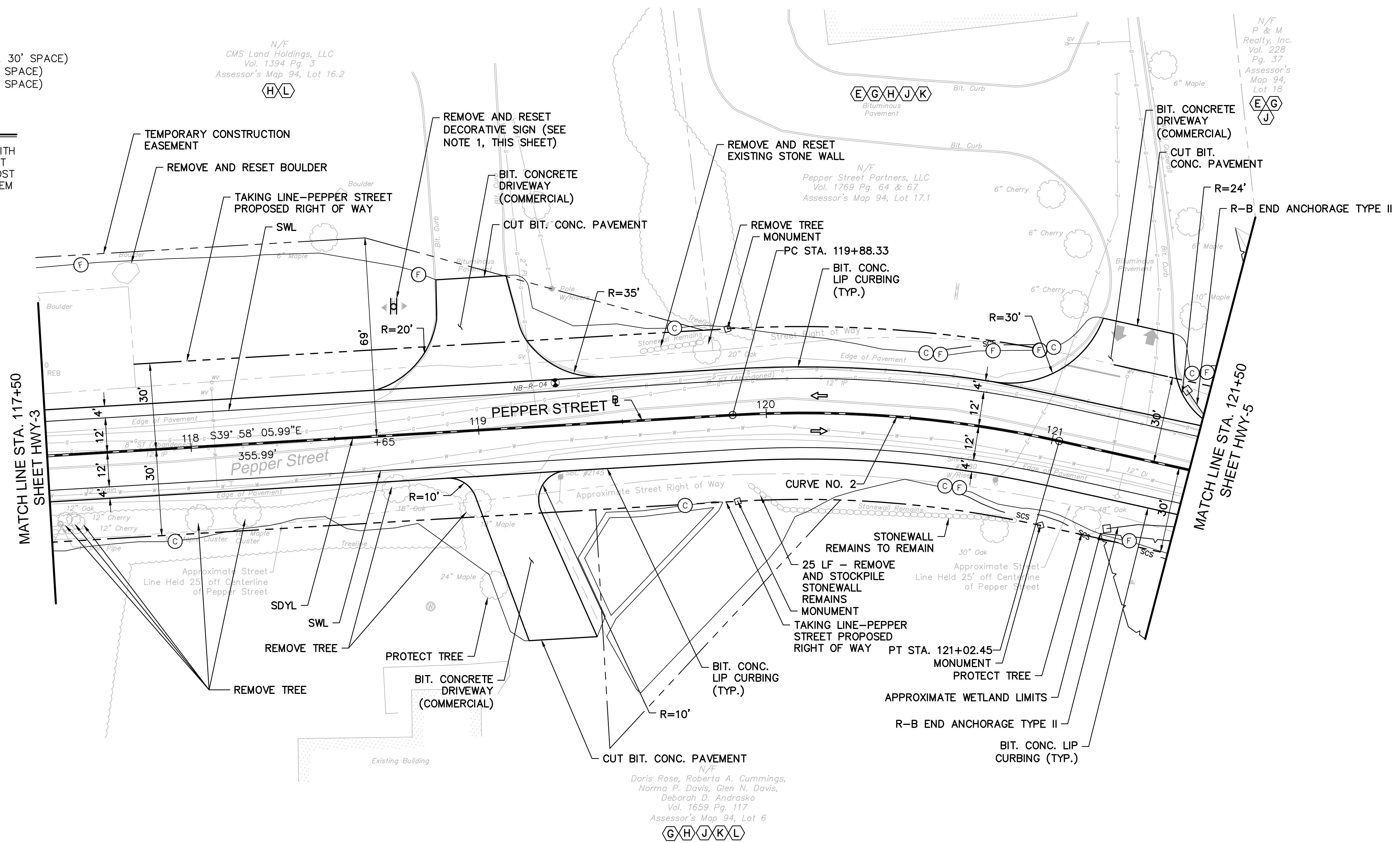
- (FC)— FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS — SEDIMENTATION CONTROL SYSTEM
- ⊙ BORING LOCATION

PAVEMENT MARKING LEGEND:

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- SDYL 4" SOLID DOUBLE YELLOW LINE
- SWSB 12" SOLID WHITE STOP BAR
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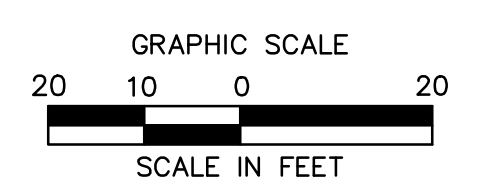
NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER AND REMOVE & RESET AS DIRECTED BY THE ENGINEER. THE COST SHALL BE INCLUDED IN THE COST OF ITEM "CLEARING AND GRUBBING".
2. REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.
3. REFER TO GEN-1 FOR SIGNING AND PAVEMENT MARKING NOTES.



N/F
 Doris Rose, Roberta A. Cummings,
 Norma P. Davis, Glen N. Davis,
 Deborah D. Andrasco
 Vol. 1659 Pg. 117
 Assessor's Map 94, Lot 6
 G H J K L

CURVE DATA							
CURVE NO.		NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
CURVE NO. 2	PC	687016.15	862615.65	15°56'49"	410.0'	57.43'	114.1'
	PI	686972.14	862652.54				
	PT	686919.68	862675.92				



BL
 Companies

ARCHITECTURE
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355 Research Parkway
 Meriden, CT 06450
 (203) 630-1406
 (203) 630-2615 Fax

**ROADWAY RECONSTRUCTION
 PEPPER STREET
 MONROE, CONNECTICUT**

REVISIONS	No.	Date	Desc.

Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	1"=20'
Project No.	12C4326
Date	06/26/2019
CAD File:	THWY12C432601
Title	ROADWAY CONSTRUCTION PLAN
Sheet No.	

HWY-4

6/26/2019, C:\STRAND, G. \00001\12C4326\DWG\THWY-04_24036_205C

NOTES:

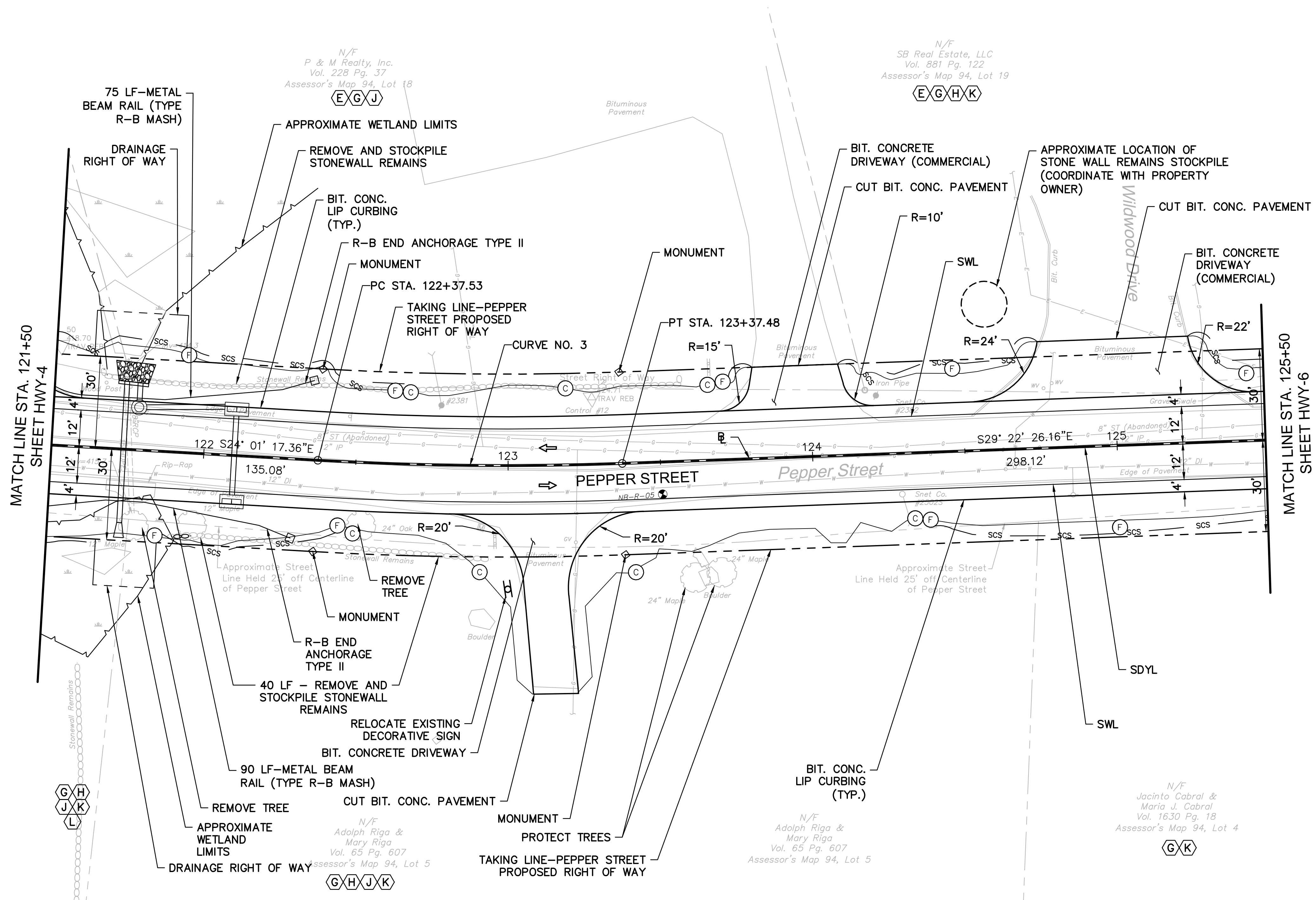
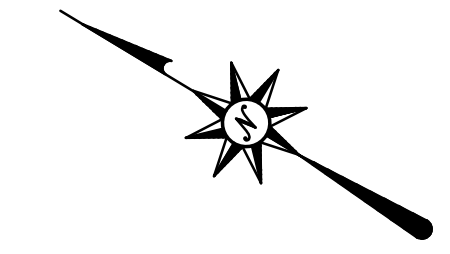
- REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.
- REFER TO GEN-1 FOR SIGNING AND PAVEMENT MARKING NOTES.

LEGEND:

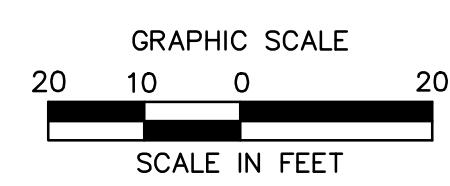
- (C)— FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS — SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION

PAVEMENT MARKING LEGEND:

- SWL 4" SOLID WHITE LINE
- SDYL 4" SOLID DOUBLE YELLOW LINE
- SWSB 12" SOLID WHITE STOP BAR
- SYL 4" SOLID YELLOW LINE
- BWL 4" BROKEN WHITE LINE (10' DASH, 30' SPACE)
- DWL 4" DASH WHITE LINE (3' DASH, 9' SPACE)
- DDWL 8" DASH WHITE LINE (3' DASH, 9' SPACE)



CURVE DATA							
CURVE NO.		NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
CURVE NO. 3	PC	686796.30	862730.91	5'21'09"	1070.0'	50.01'	100.0'
	PI	686750.62	862751.27				
	PT	686707.03	862775.80				



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(203) 630-1406
(203) 630-2615 Fax

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

REV.	No.	Date	Desc.

Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	1"=20'
Project No.	12C4326
Date	06/26/2019
CAD File:	THWY12C432601
Title	ROADWAY CONSTRUCTION PLAN
Sheet No.	HWY-5

6/26/2019, C:\STRAND, G. \08812\12C4326\DWG\THWY-05_24X36_2019.dwg

NOTES:

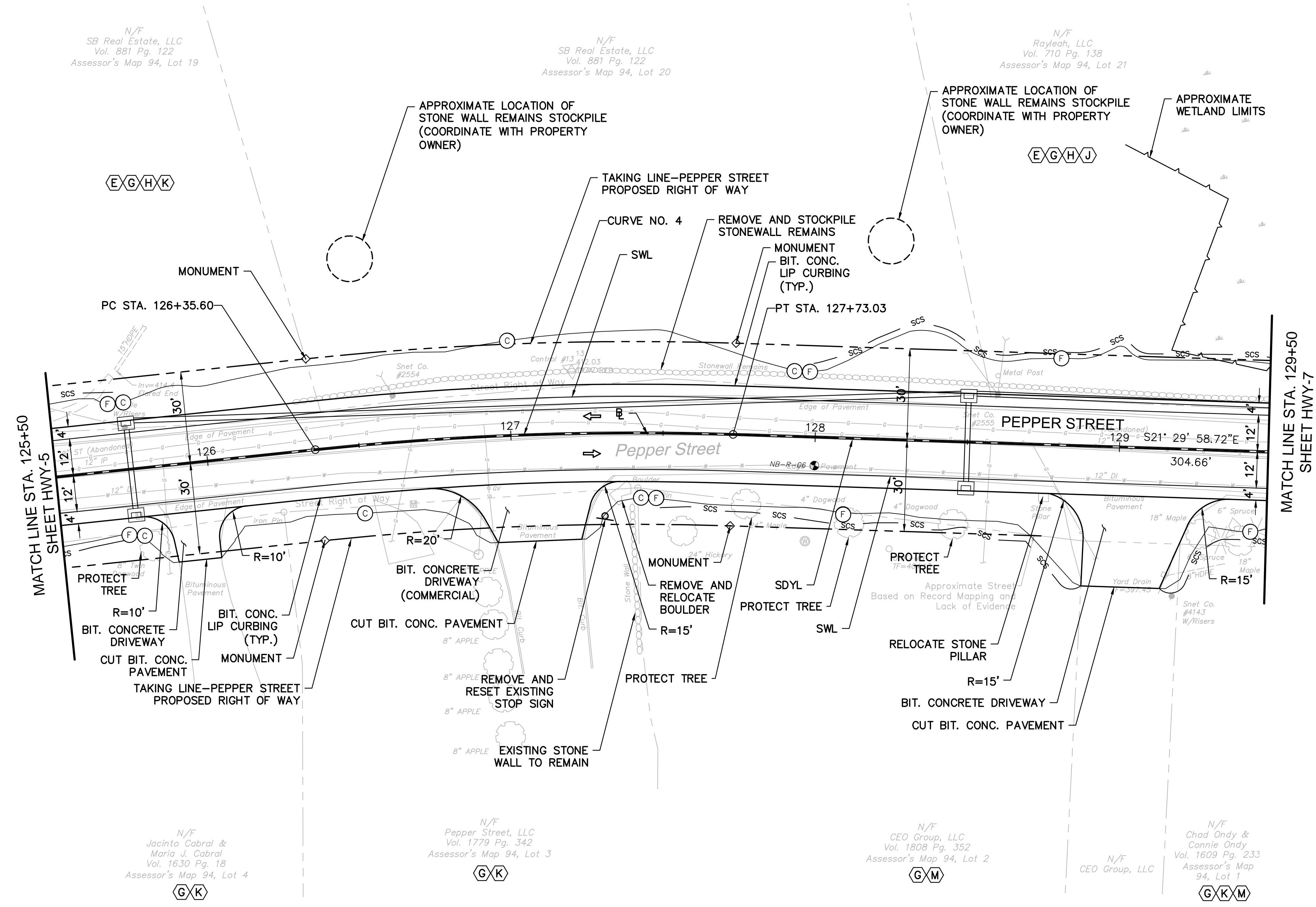
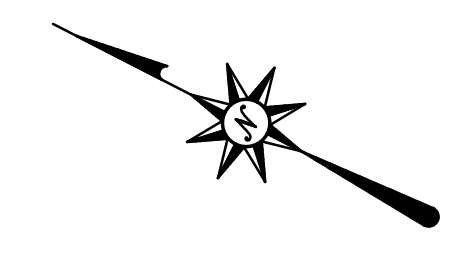
1. REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.
2. REFER TO GEN-1 FOR SIGNING AND PAVEMENT MARKING NOTES.

LEGEND:

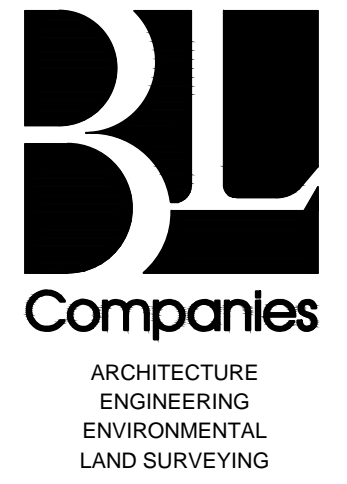
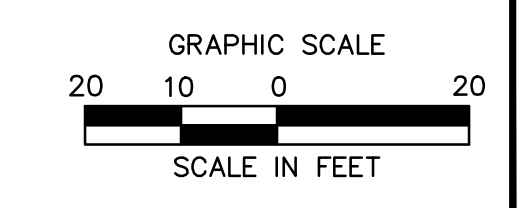
- (X)C— FILL/CUT APPROXIMATE SLOPE LIMITS
- ⇒ DIRECTION OF TRAVEL
- scs — SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION

PAVEMENT MARKING LEGEND:

- SWL 4" SOLID WHITE LINE
- SDYL 4" SOLID DOUBLE YELLOW LINE
- SWSB 12" SOLID WHITE STOP BAR
- SYL 4" SOLID YELLOW LINE
- BWL 4" BROKEN WHITE LINE (10' DASH, 30' SPACE)
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- DDWL 8" DASH WHITE LINE (3' DASH, 9' SPACE)



CURVE DATA							
CURVE NO.		NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
CURVE NO. 4	PC	686447.24	862922.03	7°52'27"	1000.0'	68.82'	137.4'
	PI	686387.26	862955.79				
	PT	686323.23	862981.02				



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Meriden, CT 06450
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(203) 630-2615 Fax

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

DESIGNED	O.L.C.
DRAWN	O.L.C.
CHECKED	B.J.P.
APPROVED	
SCALE	1"=20'
PROJECT NO.	12C4326
DATE	06/26/2019
CAD FILE:	THWY12C432601
TITLE	ROADWAY CONSTRUCTION PLAN
SHEET NO.	HWY-6

6/26/2019, C:\WORK\12C\12C4326\DWG\THWY12C432601.DWG, THWY-06, 24X36, 20SC

NOTES:

1. REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.
2. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER REGARDING INSTALLATION OF WIRE MESH FENCE. THE COST SHALL BE INCLUDED IN THE COST OF THE ITEM "CLEARING AND GRUBBING".
3. REFER TO GEN-1 FOR SIGNING AND PAVEMENT MARKING NOTES.

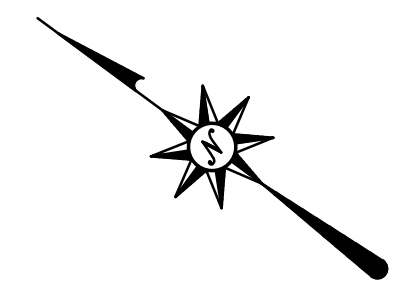
LEGEND:

- (FC)— FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS — SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION
- SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION

PAVEMENT MARKING LEGEND:

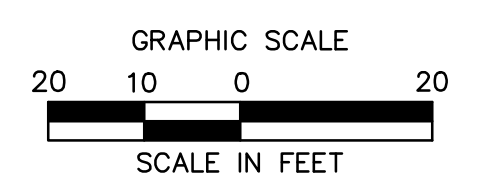
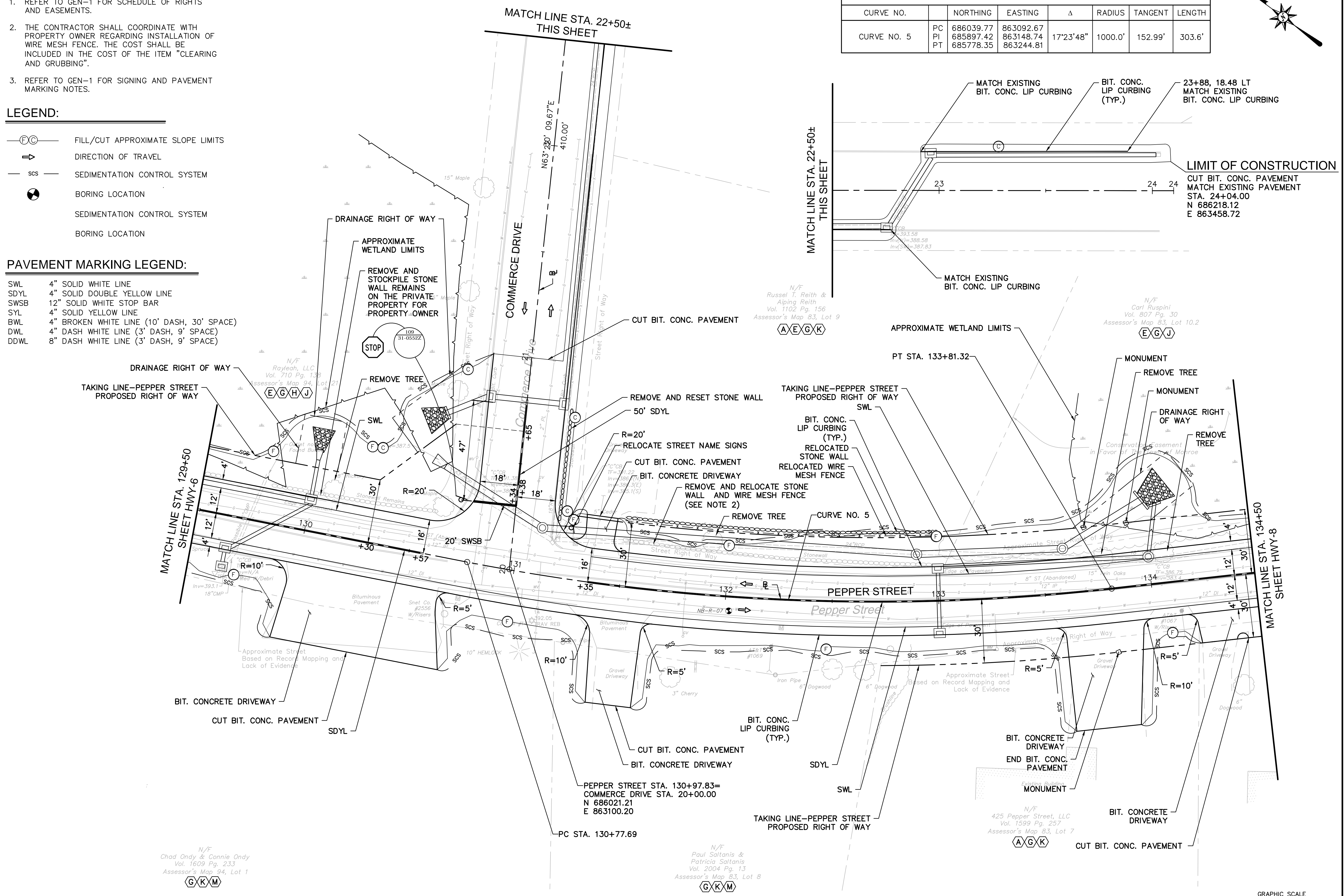
- SWL 4" SOLID WHITE LINE
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CURVE DATA							
CURVE NO.		NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
CURVE NO. 5	PC PI PT	686039.77 685897.42 685778.35	863092.67 863148.74 863244.81	17°23'48"	1000.0'	152.99'	303.6'



**ROADWAY RECONSTRUCTION
 PEPPER STREET
 MONROE, CONNECTICUT**

DESIGNED: O.L.C.
 DRAWN: O.L.C.
 CHECKED: B.J.P.
 APPROVED: B.J.P.
 SCALE: 1"=20'
 PROJECT NO.: 12C4326
 DATE: 06/26/2019
 CAD FILE: THWY12C432601
 TITLE: ROADWAY CONSTRUCTION PLAN
 SHEET NO.: HWY-7



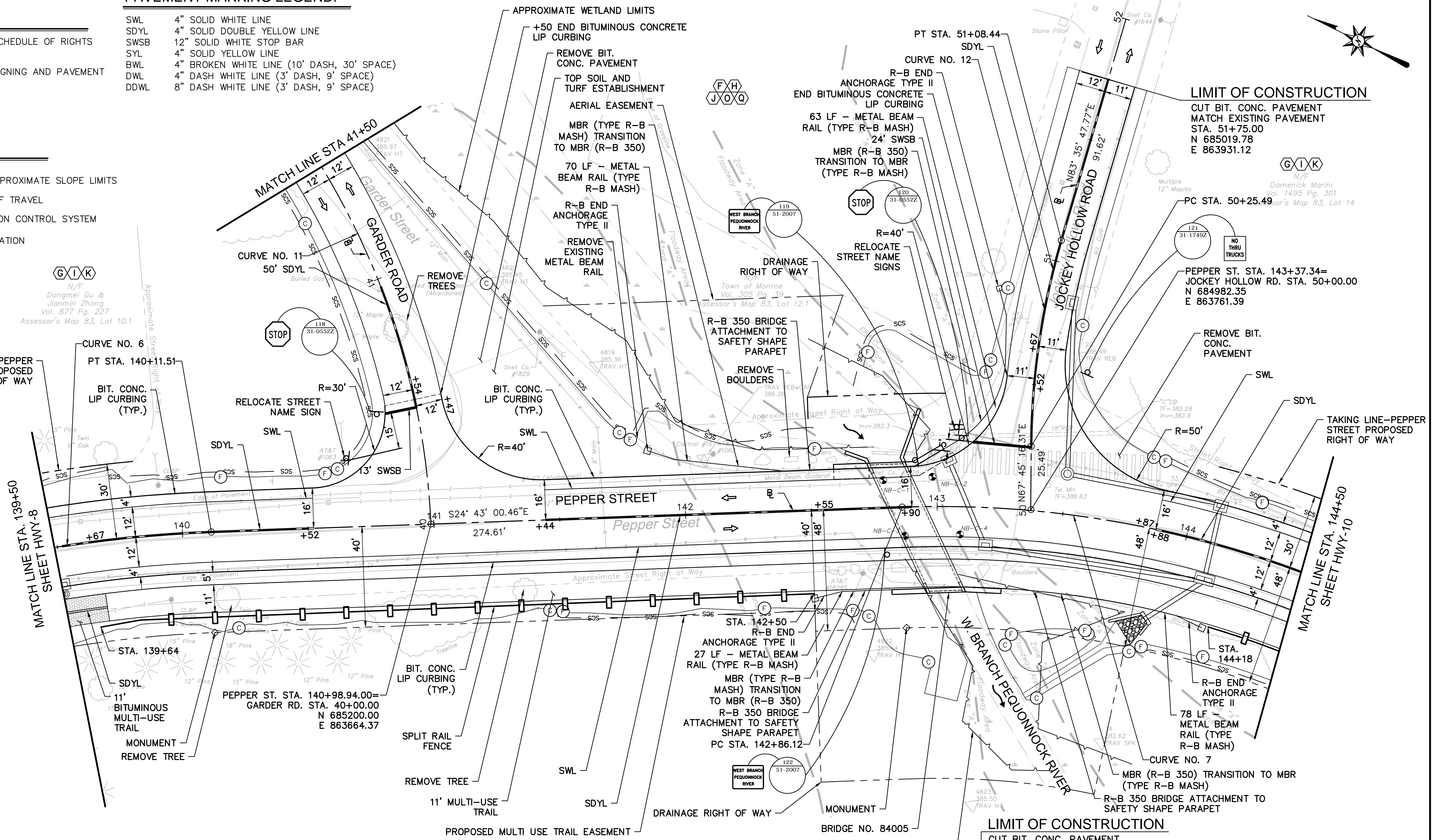
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- NOTES:**
- REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.
 - REFER TO GEN-1 FOR SIGNING AND PAVEMENT MARKING NOTES.

- LEGEND:**
- FILL/CUT APPROXIMATE SLOPE LIMITS
 - DIRECTION OF TRAVEL
 - SEDIMENTATION CONTROL SYSTEM
 - BORING LOCATION
 - BITUMINOUS MULTI-USE TRAIL
 - CONCRETE

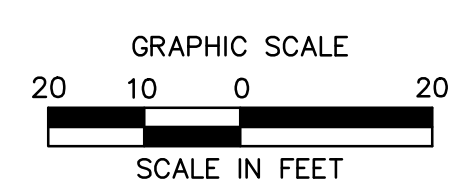
PAVEMENT MARKING LEGEND:

- SWL 4" SOLID WHITE LINE
- SDYL 4" SOLID DOUBLE YELLOW LINE
- SWSB 12" SOLID WHITE STOP BAR
- SYL 4" SOLID YELLOW LINE
- BWL 4" BROKEN WHITE LINE (10' DASH, 30' SPACE)
- DWL 4" DASH WHITE LINE (3' DASH, 9' SPACE)
- DDWL 8" DASH WHITE LINE (3' DASH, 9' SPACE)



CURVE DATA

CURVE NO.		NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
CURVE NO. 6	PC	685384.19	863562.81	14°10'47"	500.0'	62.19'	123.7'
	PI	685335.79	863601.86				
	PT	685279.30	863627.86				
CURVE NO. 7	PC	685029.85	863742.69	34°56'14"	410.0'	129.03'	250.0'
	PI	684912.65	863796.64				
	PT	684785.67	863773.74				
CURVE NO. 11	PC	685200.00	863664.37	39°09'56"	300.3'	106.83'	205.3'
	PI	685245.78	863760.89				
	PT	685342.23	863806.81				
CURVE NO. 12	PC	684991.88	863784.70	15°50'31"	300.0'	41.74'	82.9'
	PI	685007.68	863823.33				
	PT	685012.33	863864.81				



6/26/2019, CHASTRAND, G. VORRELL, J. L. C. 12C432601.DWG, THWY-09, 24X36, 205C.

NOTES:

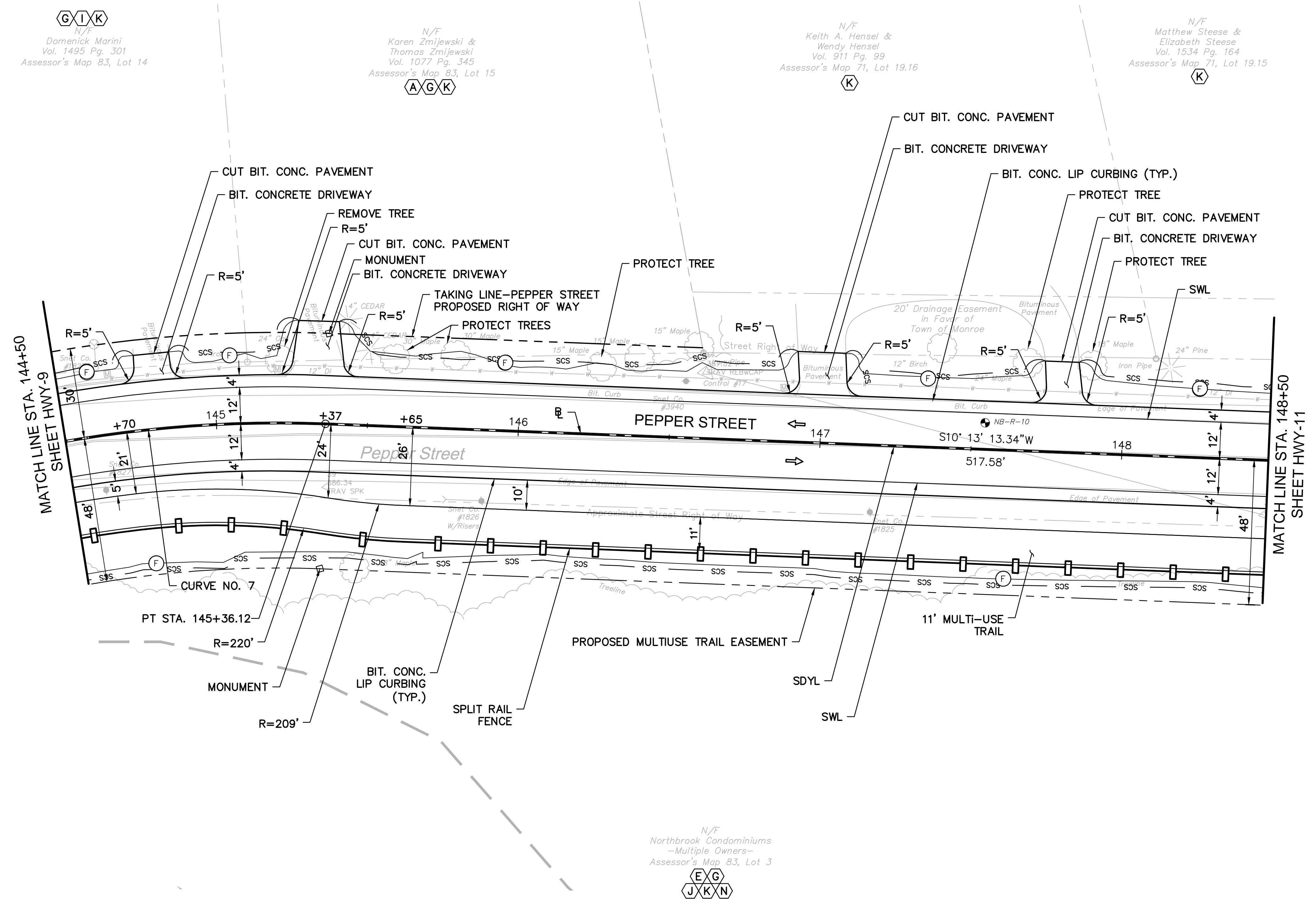
1. REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.
2. REFER TO GEN-1 FOR SIGNING AND PAVEMENT MARKING NOTES.

LEGEND:

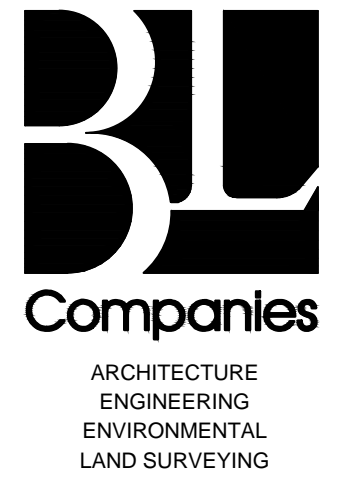
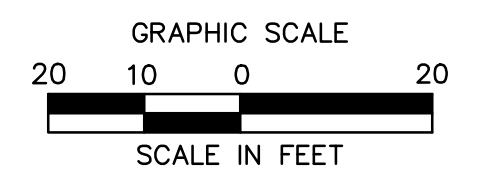
- (F)C— FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS — SEDIMENTATION CONTROL SYSTEM
- ⊙ BORING LOCATION

PAVEMENT MARKING LEGEND:

- SWL 4" SOLID WHITE LINE
- SDYL 4" SOLID DOUBLE YELLOW LINE
- SWSB 12" SOLID WHITE STOP BAR
- SYL 4" SOLID YELLOW LINE
- BWL 4" BROKEN WHITE LINE (10' DASH, 30' SPACE)
- DWL 4" DASH WHITE LINE (3' DASH, 9' SPACE)
- DDWL 8" DASH WHITE LINE (3' DASH, 9' SPACE)



CURVE DATA							
CURVE NO.		NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
CURVE NO. 7	PC	685029.85	863742.69	34°56'14"	410.0'	129.03'	250.0'
	PI	684912.65	863796.64				
	PT	684785.67	863773.74				



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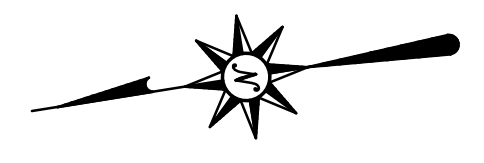
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

DESIGNED	O.L.C.
DRAWN	O.L.C.
CHECKED	B.J.P.
APPROVED	
SCALE	1"=20'
PROJECT NO.	12C4326
DATE	06/26/2019
CAD FILE:	THWY12C432601
TITLE	ROADWAY CONSTRUCTION PLAN
SHEET NO.	

HWY-10

6/26/2019, 10:58:21 AM, C:\Users\gmastrand\OneDrive\Documents\THWY10\12C432601.DWG, THWY-10, 24x36, 20SC

**ROADWAY RECONSTRUCTION
 PEPPER STREET
 MONROE, CONNECTICUT**

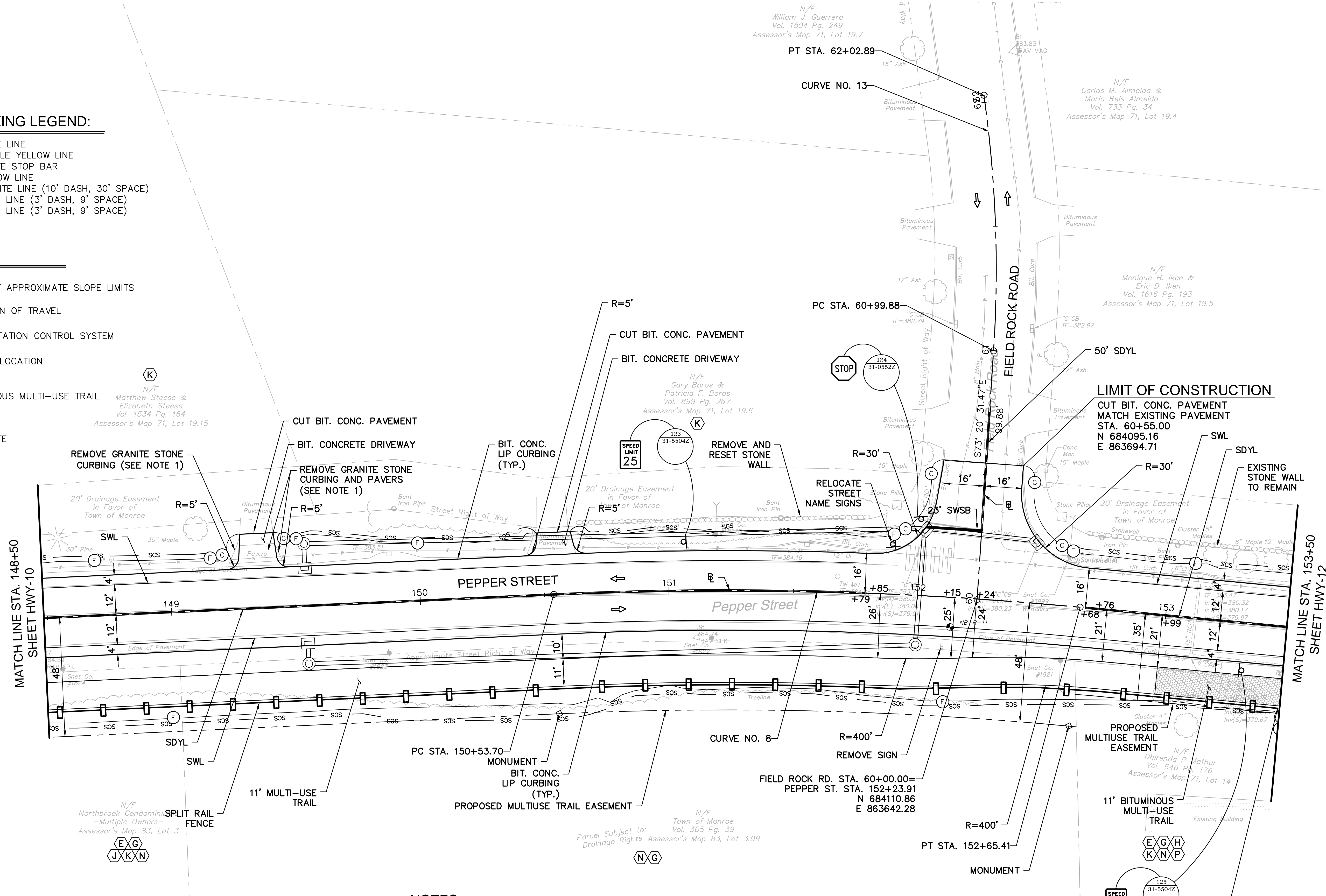


PAVEMENT MARKING LEGEND:

SWL	4" SOLID WHITE LINE
SDYL	4" SOLID DOUBLE YELLOW LINE
SWSB	12" SOLID WHITE STOP BAR
SYL	4" SOLID YELLOW LINE
BWL	4" BROKEN WHITE LINE (10' DASH, 30' SPACE)
DWL	4" DASH WHITE LINE (3' DASH, 9' SPACE)
DDWL	8" DASH WHITE LINE (3' DASH, 9' SPACE)

LEGEND:

	FILL/CUT APPROXIMATE SLOPE LIMITS
	DIRECTION OF TRAVEL
	SEDIMENTATION CONTROL SYSTEM
	BORING LOCATION
	BITUMINOUS MULTI-USE TRAIL
	CONCRETE

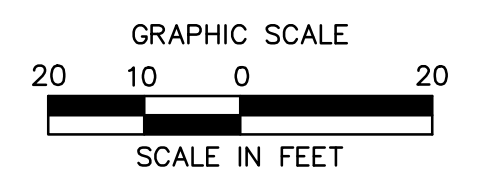


CURVE DATA

CURVE NO.		NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
CURVE NO. 8	PC	684276.30	863681.91	8°05'12"	1500.0'	106.03'	211.7'
	PI	684171.95	863663.09				
	PT	684071.29	863629.79				
CURVE NO. 13	PC	684082.23	863737.97	11°53'32"	496.3'	51.69'	103.0'
	PI	684067.42	863787.49				
	PT	684063.12	863839.00				

NOTES:

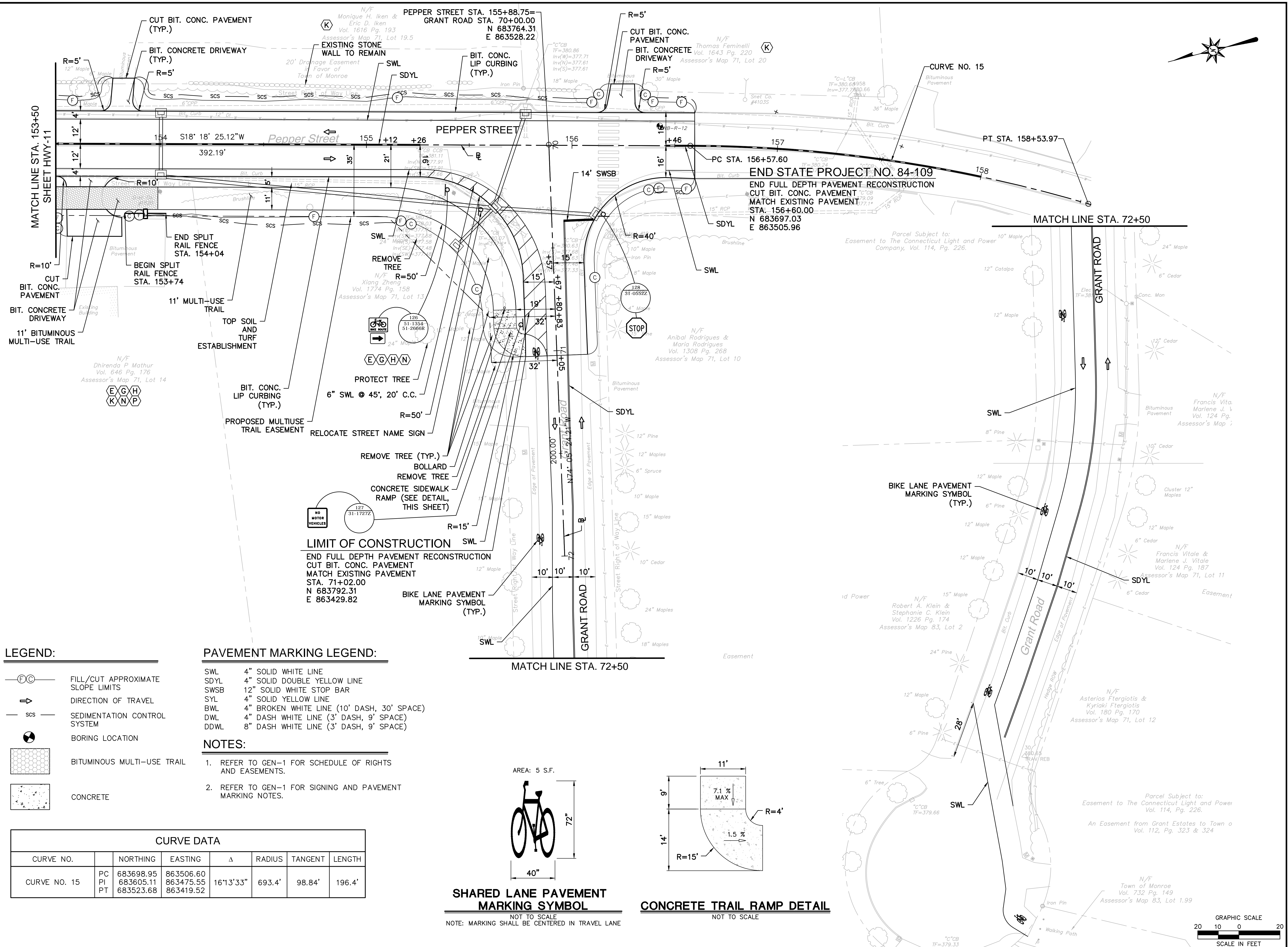
1. THE CONTRACTOR SHALL REMOVE EXISTING STONE CURBING AND PAVERS AND STOCKPILE AS DIRECTED BY THE ENGINEER. THE COST SHALL BE INCLUDED IN THE COST OF ITEM "CLEARING AND GRUBBING".
2. REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.
3. REFER TO GEN-1 FOR SIGNING AND PAVEMENT MARKING NOTES.



No. _____ Desc. _____
 REVISIONS
 No. Date
 Designed O.L.C.
 Drawn O.L.C.
 Checked B.J.P.
 Approved _____
 Scale 1"=20'
 Project No. 12C4326
 Date 06/26/2019
 CAD File: THWY12C432601
 Title **ROADWAY CONSTRUCTION PLAN**
 Sheet No. **HWY-11**

REV. NO.	DATE	DESC.

Designed	O.L.C
Drawn	O.L.C
Checked	B.J.P.
Approved	
Scale	1"=20'
Project No.	12C4326
Date	06/26/2019
CAD File:	THWY12C432601
Title	ROADWAY CONSTRUCTION PLAN
Sheet No.	



LEGEND:

- FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION
- BITUMINOUS MULTI-USE TRAIL
- CONCRETE

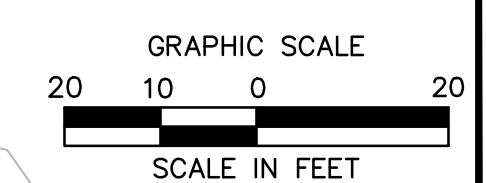
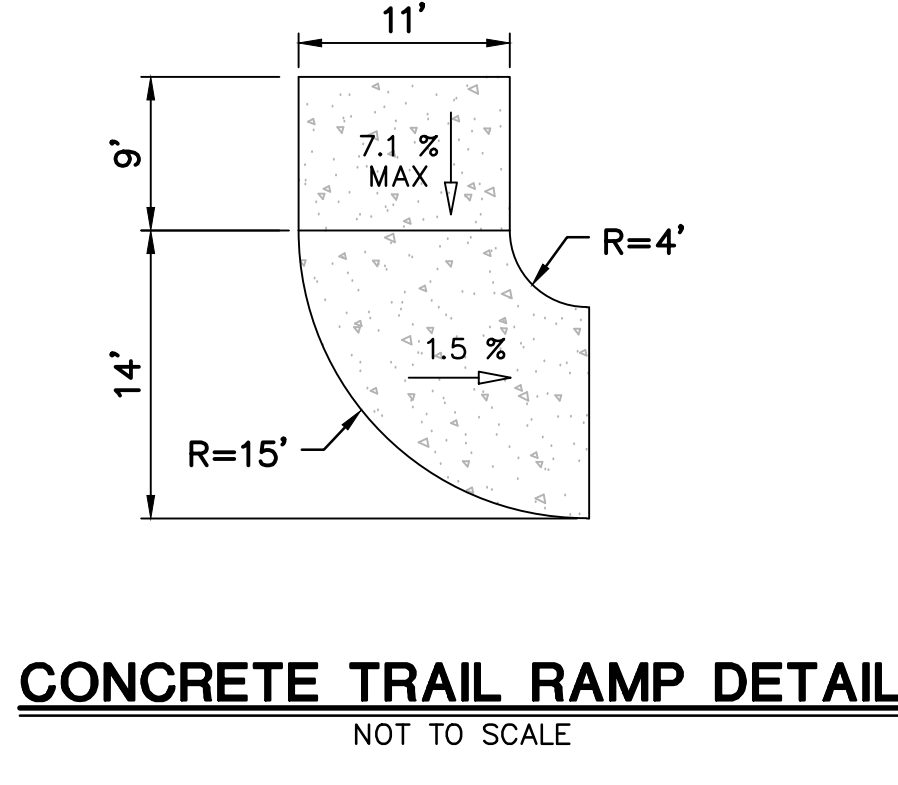
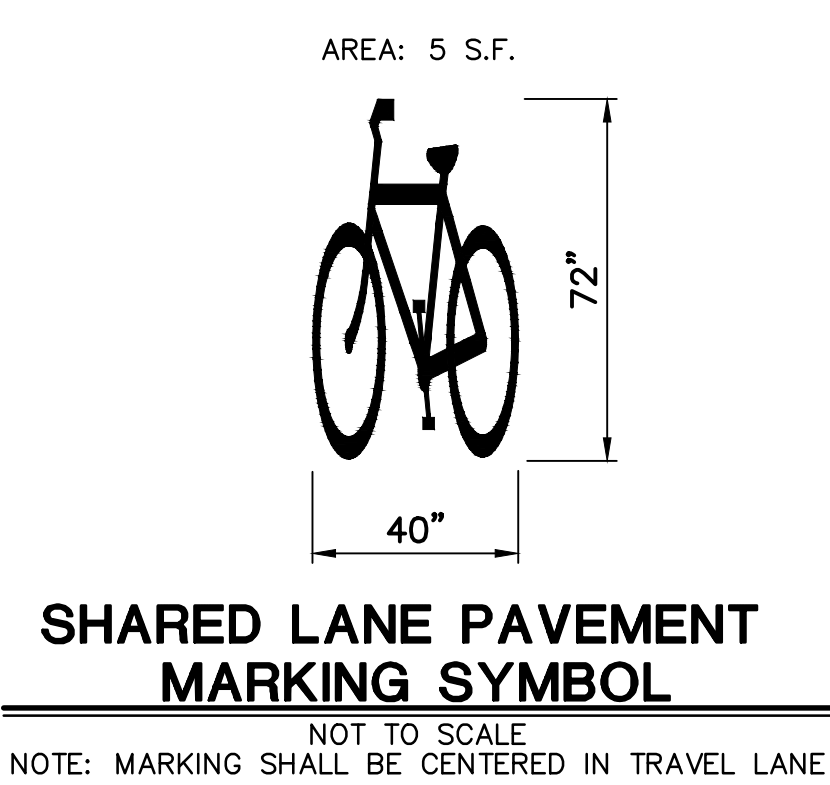
PAVEMENT MARKING LEGEND:

- SWL 4" SOLID WHITE LINE
- SDYL 4" SOLID DOUBLE YELLOW LINE
- SWSB 12" SOLID WHITE STOP BAR
- SYL 4" SOLID YELLOW LINE
- BWL 4" BROKEN WHITE LINE (10' DASH, 30' SPACE)
- DWL 4" DASH WHITE LINE (3' DASH, 9' SPACE)
- DDWL 8" DASH WHITE LINE (3' DASH, 9' SPACE)

- NOTES:**
- REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.
 - REFER TO GEN-1 FOR SIGNING AND PAVEMENT MARKING NOTES.

CURVE DATA

CURVE NO.	PC	NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
CURVE NO. 15	PI PT	683698.95 683605.11 683523.68	863506.60 863475.55 863419.52	16°13'33"	693.4'	98.84'	196.4'

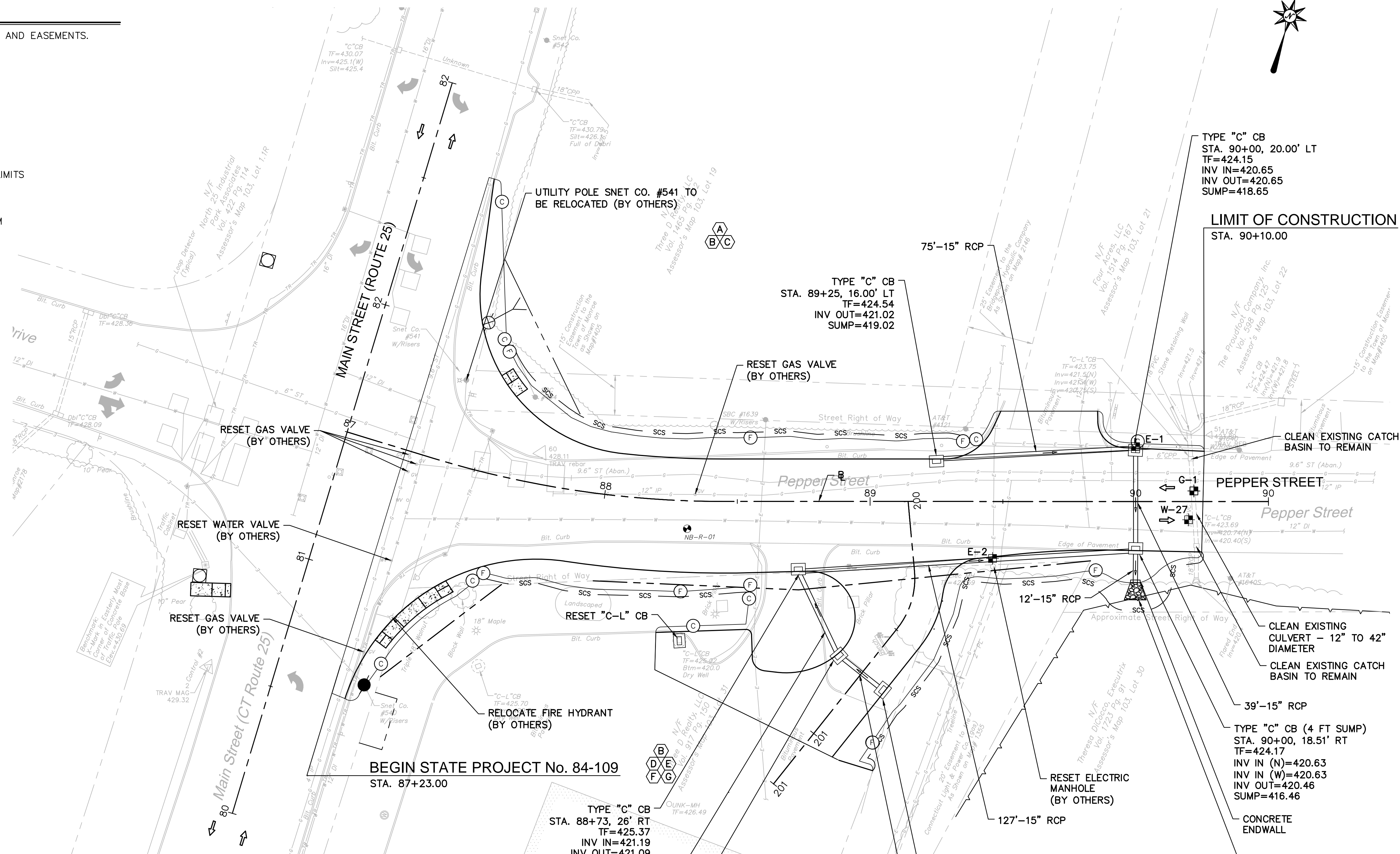


NOTES

1. REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.

LEGEND:

- FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION
- TEST PIT LOCATION



TEST PIT #	BASELINE		NORTHING*	EASTING*	ELECTRIC		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
E-1	90+00	20.67 LT	688295.23	860245.50	424.18	421.58	2 X 4" CONDUIT	YES
E-2	89+46	21.45 RT	688233.41	860216.53	425.20	423.00	4" CONDUIT	YES

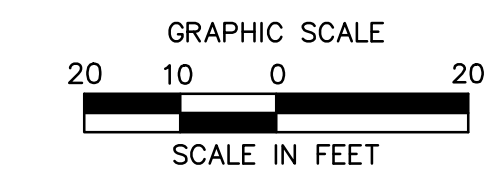
*APPROXIMATE LOCATIONS

TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-27	90+20	6.87 RT	688279.63	860275.68	423.91	420.33	12" D.I.	YES

TEST PIT #	BASELINE		NORTHING*	EASTING*	GAS		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
G-1	90+22	3.99 LT	688290.23	860272.59	424.30	420.22	12" STEEL	YES

*APPROXIMATE LOCATIONS




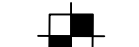
* TO BE MAINTAINED BY PROPERTY OWNER

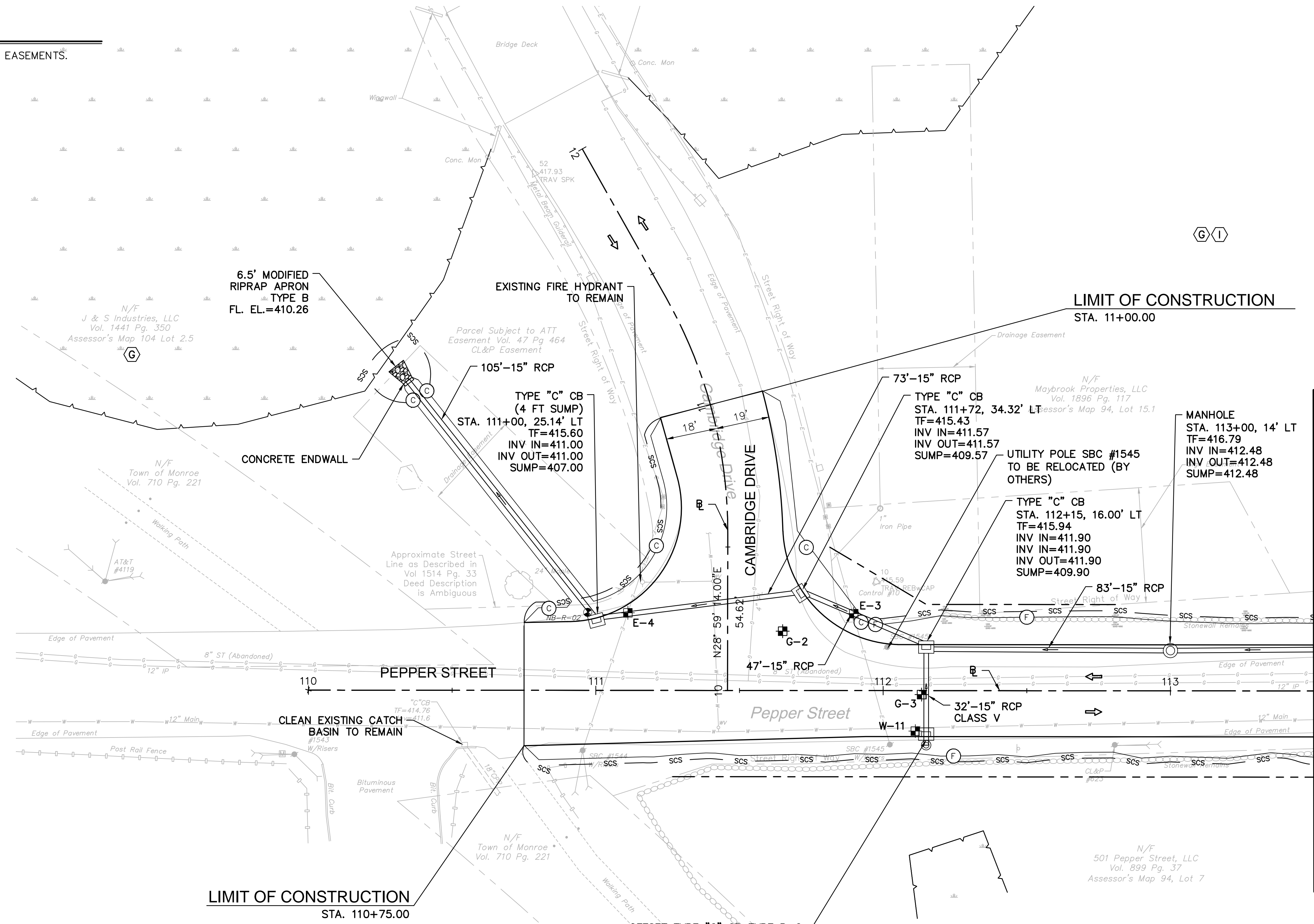


NOTES

1. REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.

LEGEND:

-  FILL/CUT APPROXIMATE SLOPE LIMITS
-  DIRECTION OF TRAVEL
-  SEDIMENTATION CONTROL SYSTEM
-  TEST PIT LOCATION



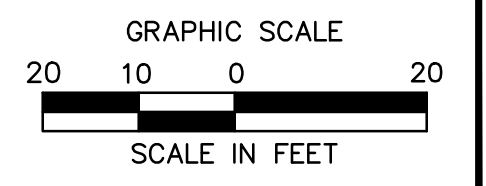
TEST PIT #	BASELINE		NORTHING*	EASTING*	ELECTRIC		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
E-3	111+90	26.75 LT	687548.82	862001.76	415.50	413.25	3 X 4" CONDUIT; 3 X 6" CONDUIT	YES
E-4	111+11	27.00 LT	687587.02	861959.94	415.28	413.38	2 X 6" CONDUIT	YES

*APPROXIMATE LOCATIONS

TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-11	112+11	14.08 RT	687502.69	862027.81	415.88	411.30	12" D.I.	YES

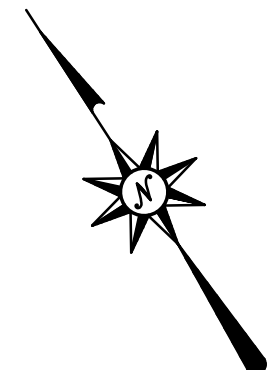
TEST PIT #	BASELINE		NORTHING*	EASTING*	GAS		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
G-2	111+65	20.65 LT	687555.42	862004.16	416.00	412.58	4" PLASTIC	NO
G-3	112+13	1.36 RT	687512.77	862035.87	416.62	413.62	12" STEEL	NO

*APPROXIMATE LOCATIONS



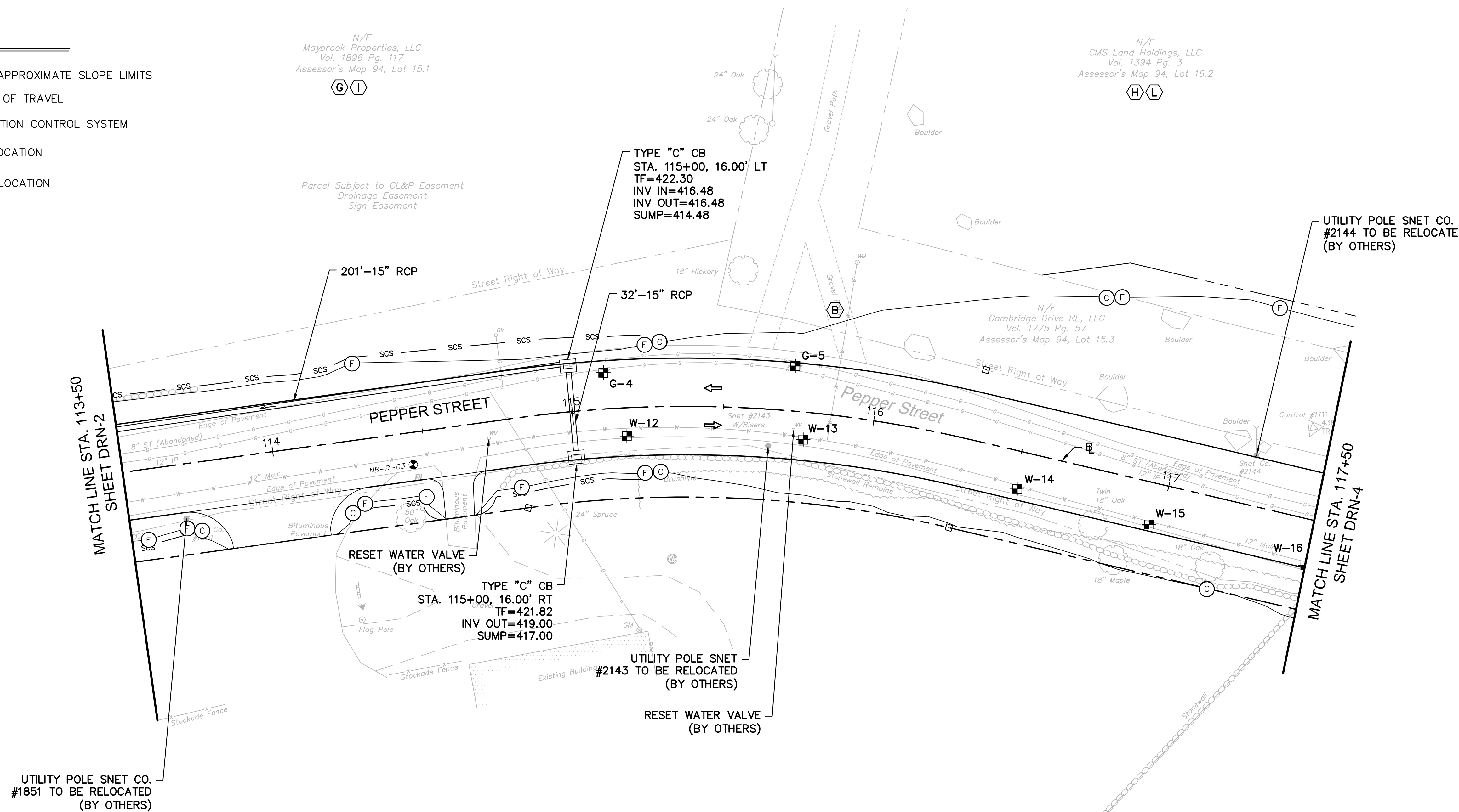
NOTES

1. REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.



LEGEND:

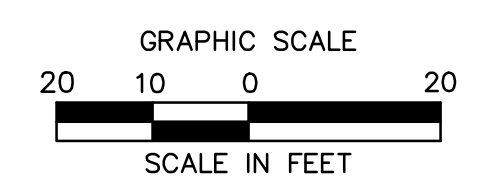
- FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION
- TEST PIT LOCATION



TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-12	115+18	9.36 RT	687357.75	862296.81	422.11	417.36	12" D.I.	NO
W-13	115+77	9.11 RT	687321.87	862342.84	427.09	422.76	12" D.I.	NO
W-14	116+51	12.34 RT	687266.42	862389.79	432.18	427.85	12" D.I.	YES
W-15	116+97	13.81 RT	687230.88	862417.65	434.61	430.28	12" D.I.	YES

TEST PIT #	BASELINE		NORTHING*	EASTING*	GAS		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
G-4	115+11	12.03 LT	687379.20	862303.14	423.43	420.43	12" STEEL	YES
G-5	115+73	14.92 LT	687342.96	862355.32	428.37	425.54	12" STEEL	YES

*APPROXIMATE LOCATIONS



ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS		Desig.	O.L.C.
No.	Date		

Designed O.L.C.
 Drawn O.L.C.
 Checked B.J.P.
 Approved
 Scale 1"=20'
 Project No. 12C4326
 Date 06/26/2019
 CAD File: TDRN12C432601

Title
DRAINAGE PLAN

Sheet No.
DRN-3

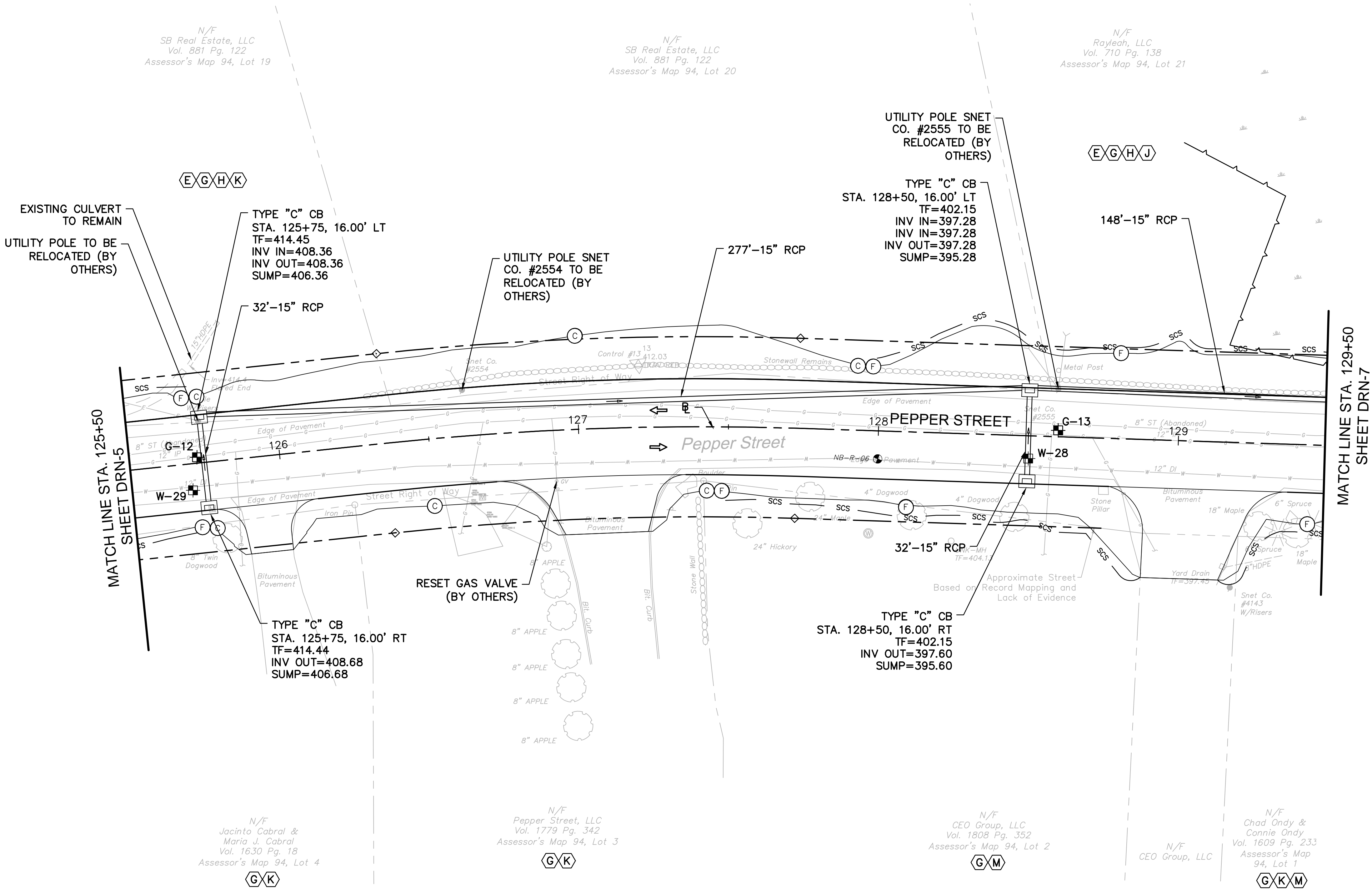
REVISIONS	Date	Desc.
No.		
Designed		O.L.C.
Drawn		O.L.C.
Checked		B.J.P.
Approved		
Scale		1"=20'
Project No.		12C4326
Date		06/26/2019
CAD File:		TDRN12C432601
Title		DRAINAGE PLAN
Sheet No.		DRN-6

NOTES

- REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.

LEGEND:

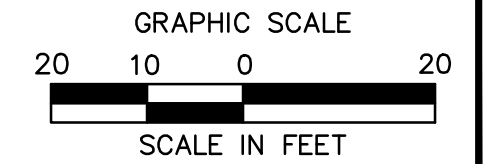
- (X)C— FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- scs — SEDIMENTATION CONTROL SYSTEM
- ⊙ BORING LOCATION
- ⊕ TEST PIT LOCATION



TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-29	125+70	8.85 RT	686500.01	862882.19	415.10	408.02	12" D.I.	NO
W-28	128+50	7.57 RT	686248.66	863002.24	399.80	392.97	12" D.I.	NO

TEST PIT #	BASELINE		NORTHING*	EASTING*	GAS		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
G-12	125+73	1.95 LT	686503.16	862892.80	415.38	412.21	12" STEEL	NO
G-13	128+60	2.12 LT	686243.21	863014.82	400.04	396.29	12" STEEL	NO

*APPROXIMATE LOCATIONS



TEST PIT #	BASELINE		NORTHING*	EASTING*	GAS		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
G-14	129+60	0.21 RT	686148.76	863049.51	396.77	392.77	12" STEEL	NO
G-15	131+04	28.35 LT	686026.41	863128.76	391.53	389.36	2" PLASTIC	YES
G-16	131+01	90.75 LT	686053.00	863185.27	392.41	389.49	2" PLASTIC	NO
G-17	133+15	3.97 LT	685833.78	863208.03	388.11	385.03	12" STEEL	YES

*APPROXIMATE LOCATIONS

TEST PIT #	BASELINE		NORTHING*	EASTING*	ELECTRIC		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
E-6	130+79	34.34 LT	686051.00	863125.15	391.45	389.40	2" CONDUIT; 5" CONDUIT; DIRECT BURY (1 FT DEEP)	NO
E-7	130+77	78.67 LT	686069.41	863165.55	392.25	389.33	6" PIPE; DIRECT BURY (1 FT DEEP)	YES

*APPROXIMATE LOCATIONS

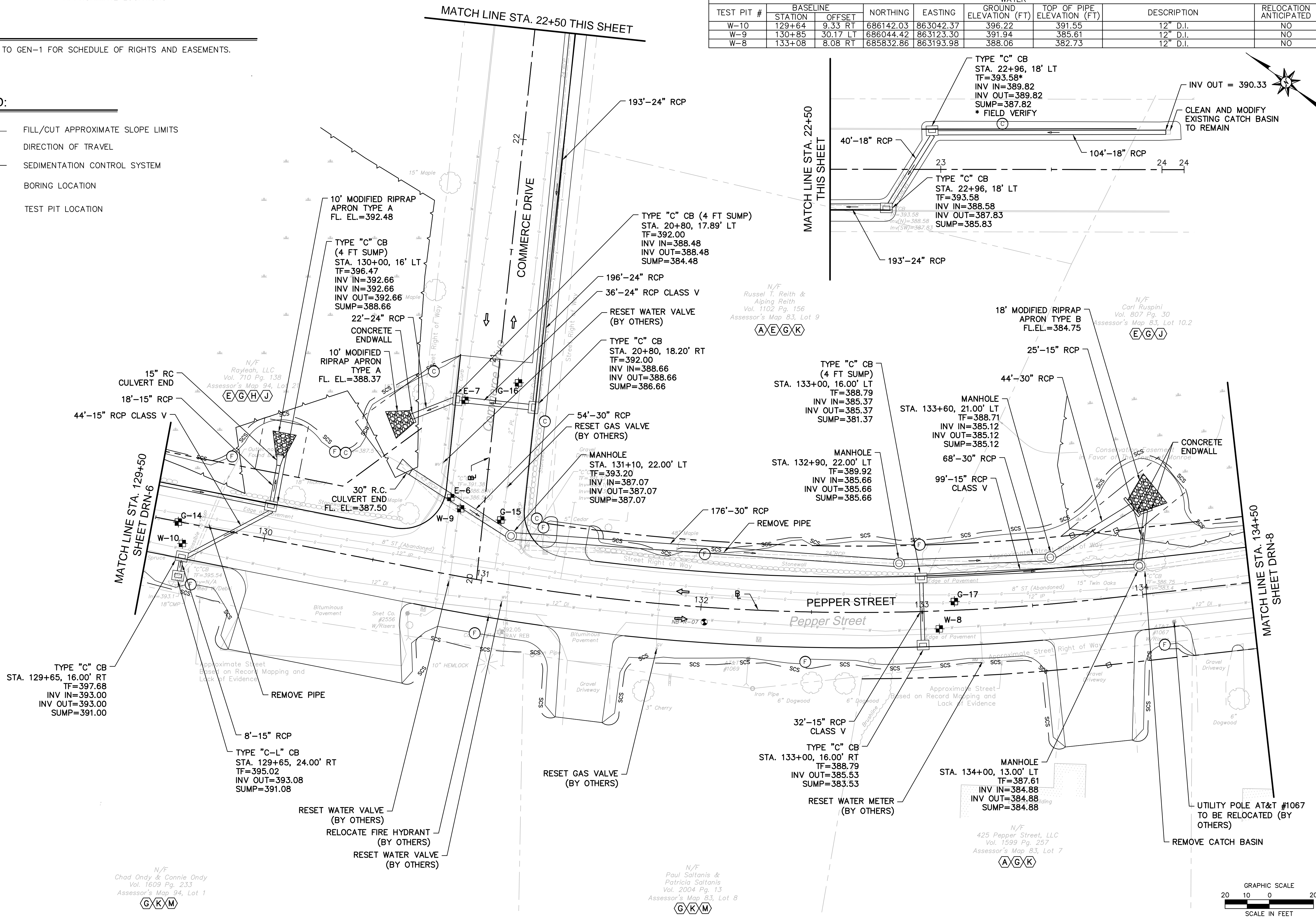
TEST PIT #	BASELINE		NORTHING*	EASTING*	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-10	129+64	9.33 RT	686142.03	863042.37	396.22	391.55	12" D.I.	NO
W-9	130+85	30.17 LT	686044.42	863123.30	391.94	385.61	12" D.I.	NO
W-8	133+08	8.08 RT	685832.86	863193.98	388.06	382.73	12" D.I.	NO

NOTES

- REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.

LEGEND:

- FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION
- TEST PIT LOCATION



ARCHITECTURE
ENGINEERING
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355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

No.	Date	Desc.

DRN-7

6/26/2019, C:\STRAND, G. \BIBB\12C\12C432601\DWG\DRN-07_24X36_20SC.dwg

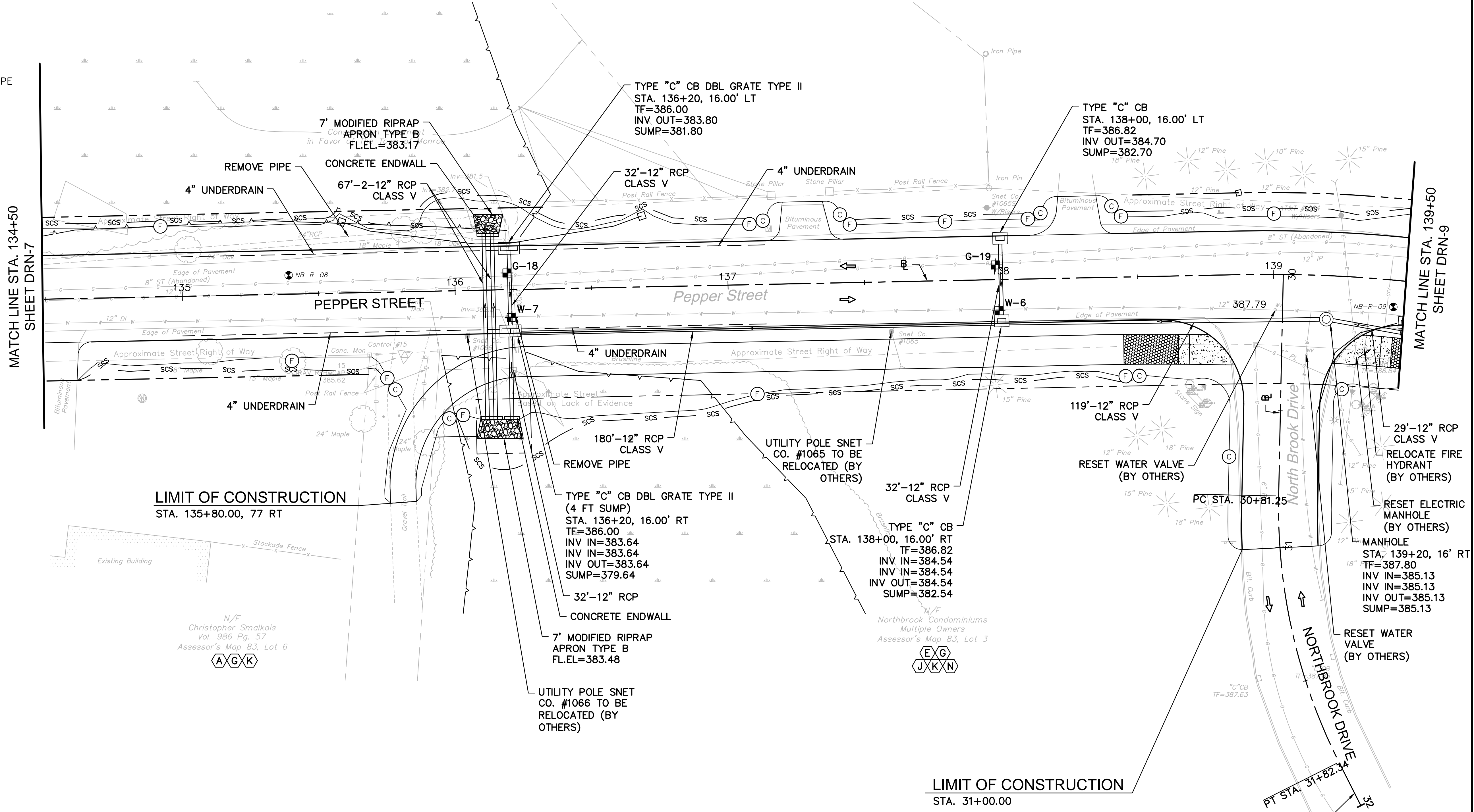
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NOTES

1. REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.

LEGEND:

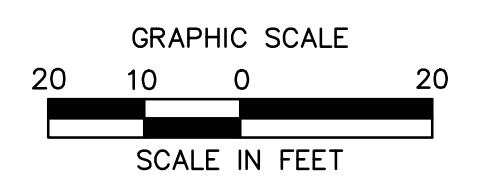
- FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION
- TEST PIT LOCATION



TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-7	136+20	10.21 RT	685585.90	863386.97	386.33	382.00	12" D.I.	NO
W-6	137+99	11.39 RT	685446.06	863498.25	386.99	382.32	12" D.I.	YES

TEST PIT #	BASELINE		NORTHING*	EASTING*	GAS		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
G-18	136+19	6.12 LT	685597.12	863398.88	386.71	383.13	12" STEEL	YES
G-19	137+98	5.39 LT	685457.38	863510.69	387.35	384.02	12" STEEL	YES

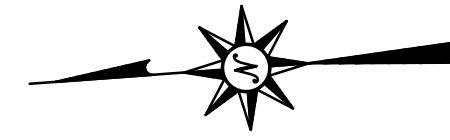
*APPROXIMATE LOCATIONS



6/26/2019, CHASTRAND, G. VORRELL, J. L. C. \254\326\DWG\DRN-08_24X36_2025

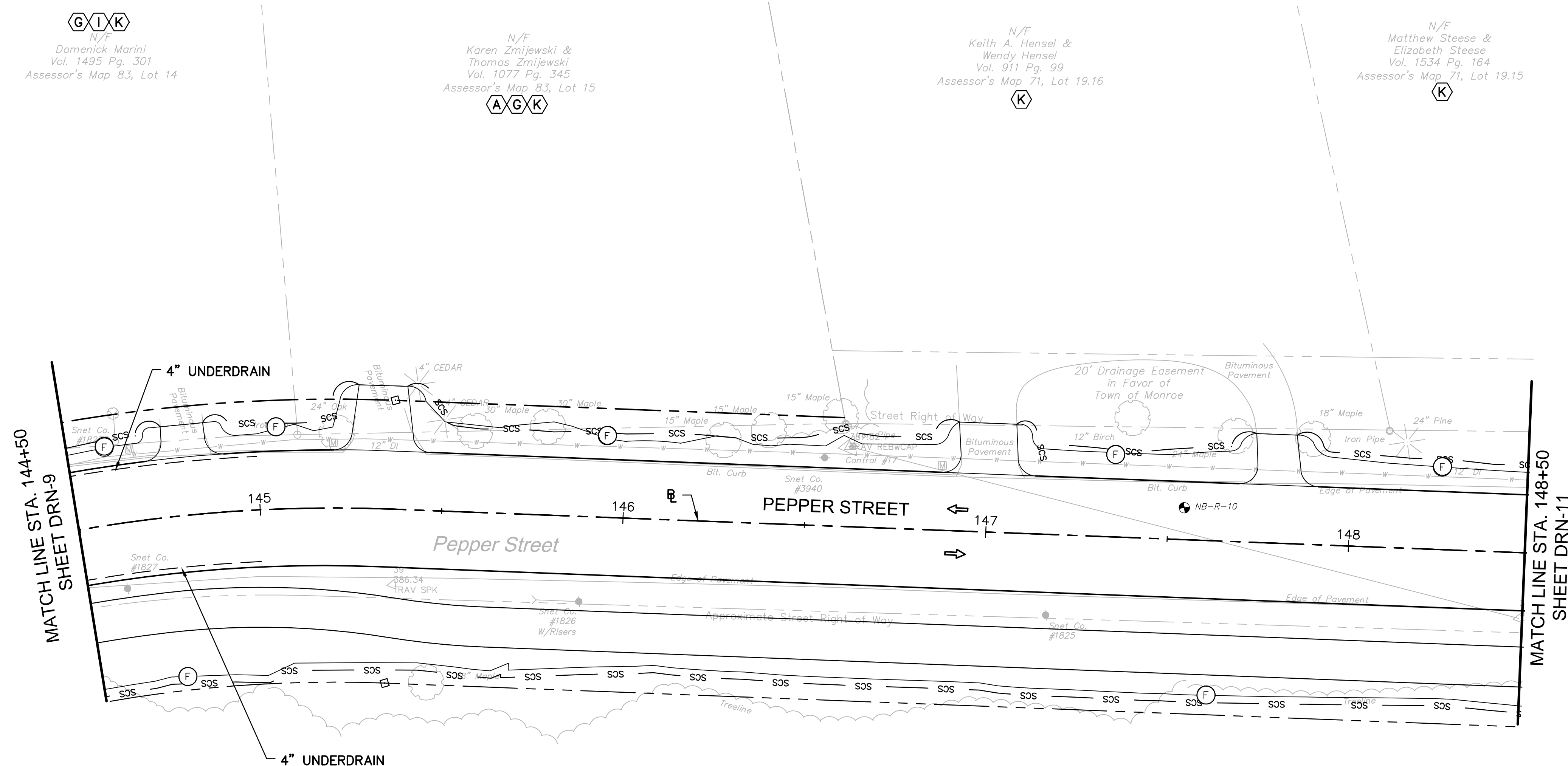
NOTES

1. REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.



LEGEND:

- FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION
- TEST PIT LOCATION



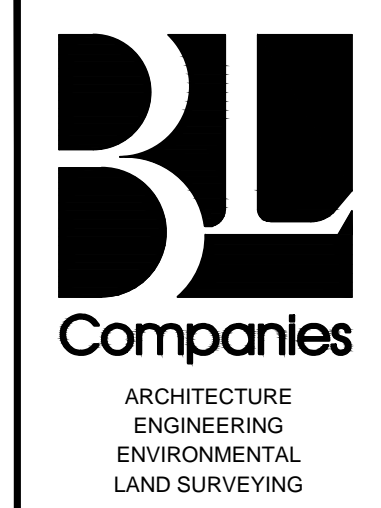
G I K
N/F
Domenick Marini
Vol. 1495 Pg. 301
Assessor's Map 83, Lot 14

A G K
N/F
Karen Zmijewski &
Thomas Zmijewski
Vol. 1077 Pg. 345
Assessor's Map 83, Lot 15

K
N/F
Keith A. Hensel &
Wendy Hensel
Vol. 911 Pg. 99
Assessor's Map 71, Lot 19.16

K
N/F
Matthew Steese &
Elizabeth Steese
Vol. 1534 Pg. 164
Assessor's Map 71, Lot 19.15

E G
N/F
Northbrook Condominiums
-Multiple Owners-
Assessor's Map 83, Lot 3
J K N



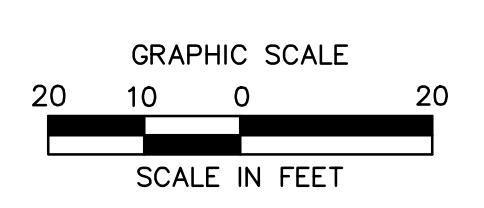
355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

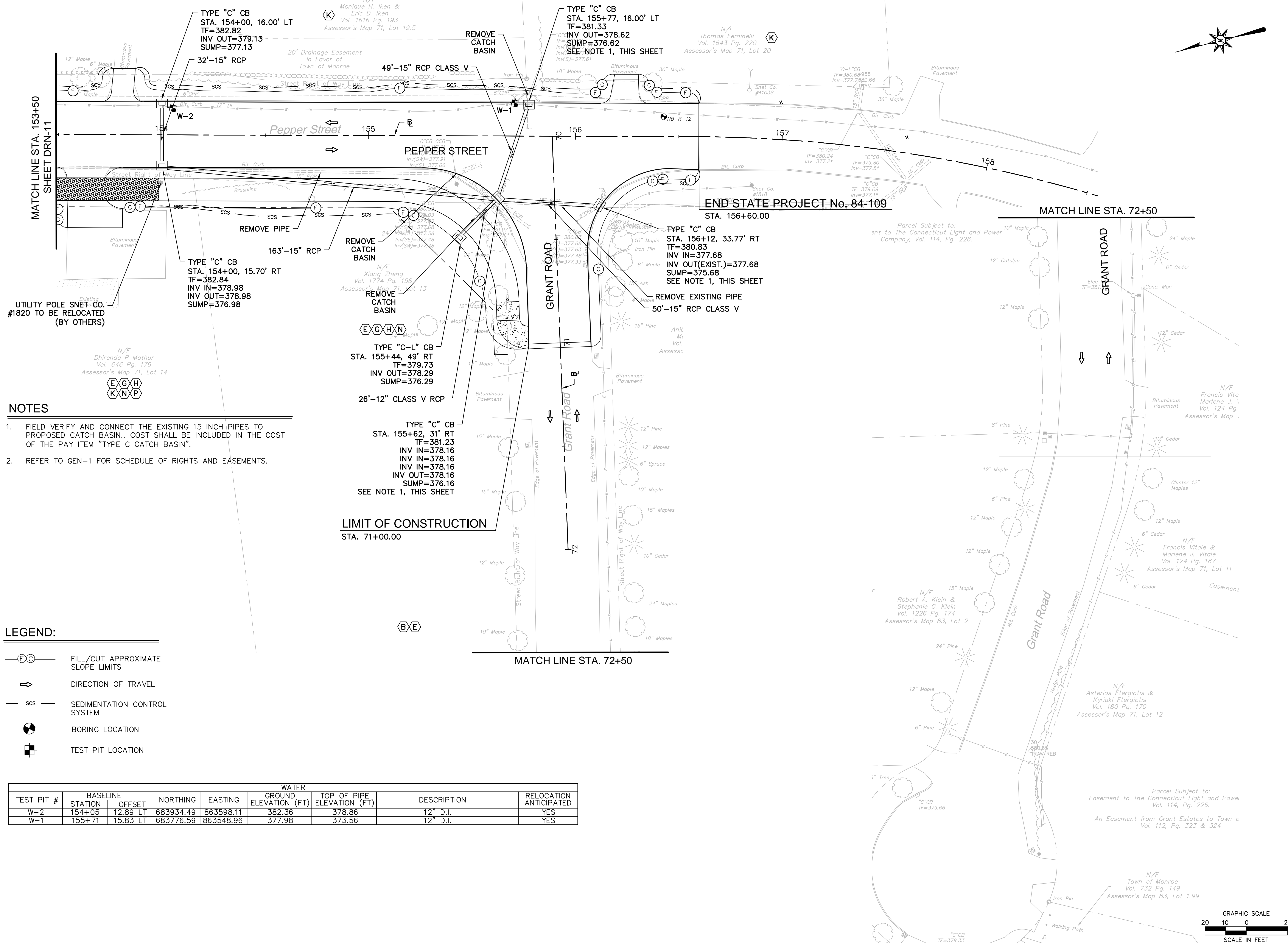
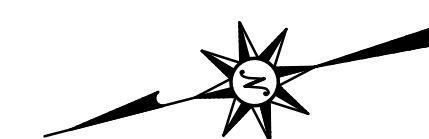
REVISIONS	No.	Date	Desc.

Designed: O.L.C.
Drawn: O.L.C.
Checked: B.J.P.
Approved:
Scale: 1"=20'
Project No.: 12C4326
Date: 06/26/2019
CAD File: TDRN12C432601

Title: **DRAINAGE PLAN**
Sheet No.: **DRN-10**



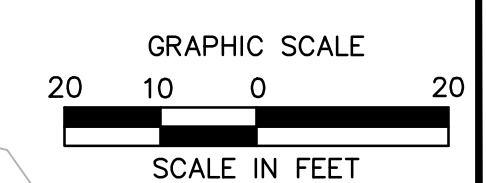
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- NOTES**
- FIELD VERIFY AND CONNECT THE EXISTING 15 INCH PIPES TO PROPOSED CATCH BASIN.. COST SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TYPE C CATCH BASIN".
 - REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.

- LEGEND:**
- FILL/CUT APPROXIMATE SLOPE LIMITS
 - DIRECTION OF TRAVEL
 - SEDIMENTATION CONTROL SYSTEM
 - BORING LOCATION
 - TEST PIT LOCATION

TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-2	154+05	12.89 LT	683934.49	863598.11	382.36	378.86	12" D.I.	YES
W-1	155+71	15.83 LT	683776.59	863548.96	377.98	373.56	12" D.I.	YES

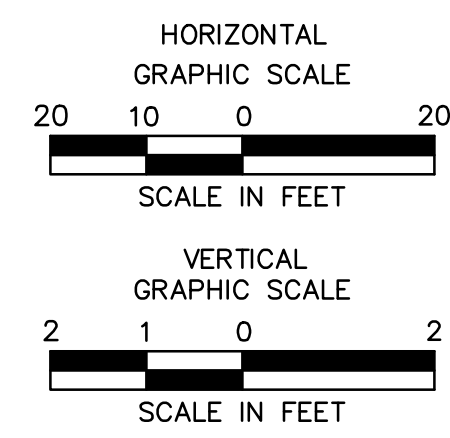
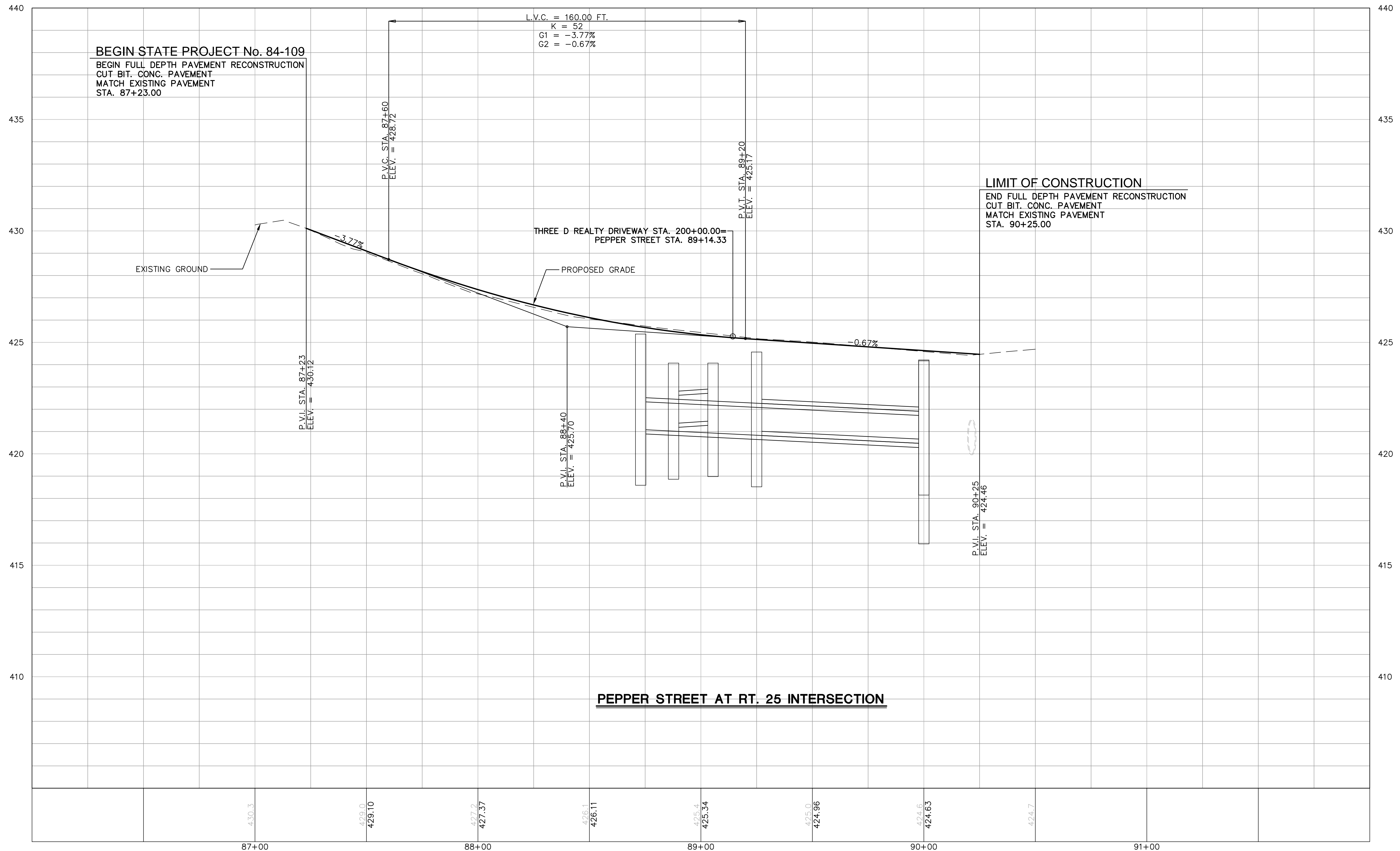


6/26/2019, CHAISTRAND, G. LARSEN\12C4326\DWG\DRN-12.dwg, TDRN12C432601, 12:24:06, 2056.

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS	Date	Desc.
No.		

Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	AS NOTED
Project No.	12C4326
Date	06/26/2019
CAD File:	TPR012C432601



6/26/2019, CMASTRAND, G. VORREY\12C4326\DWG\TPRO12C432601.DWG TPRO-01 24x36 20SC

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

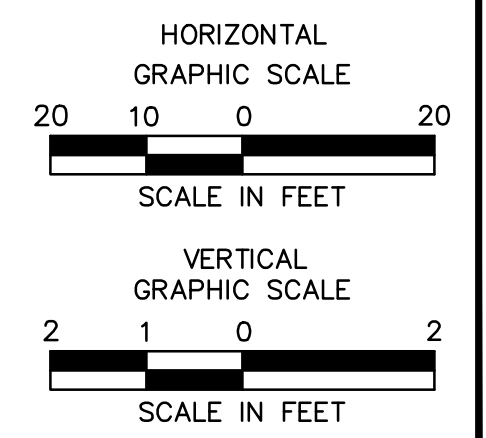
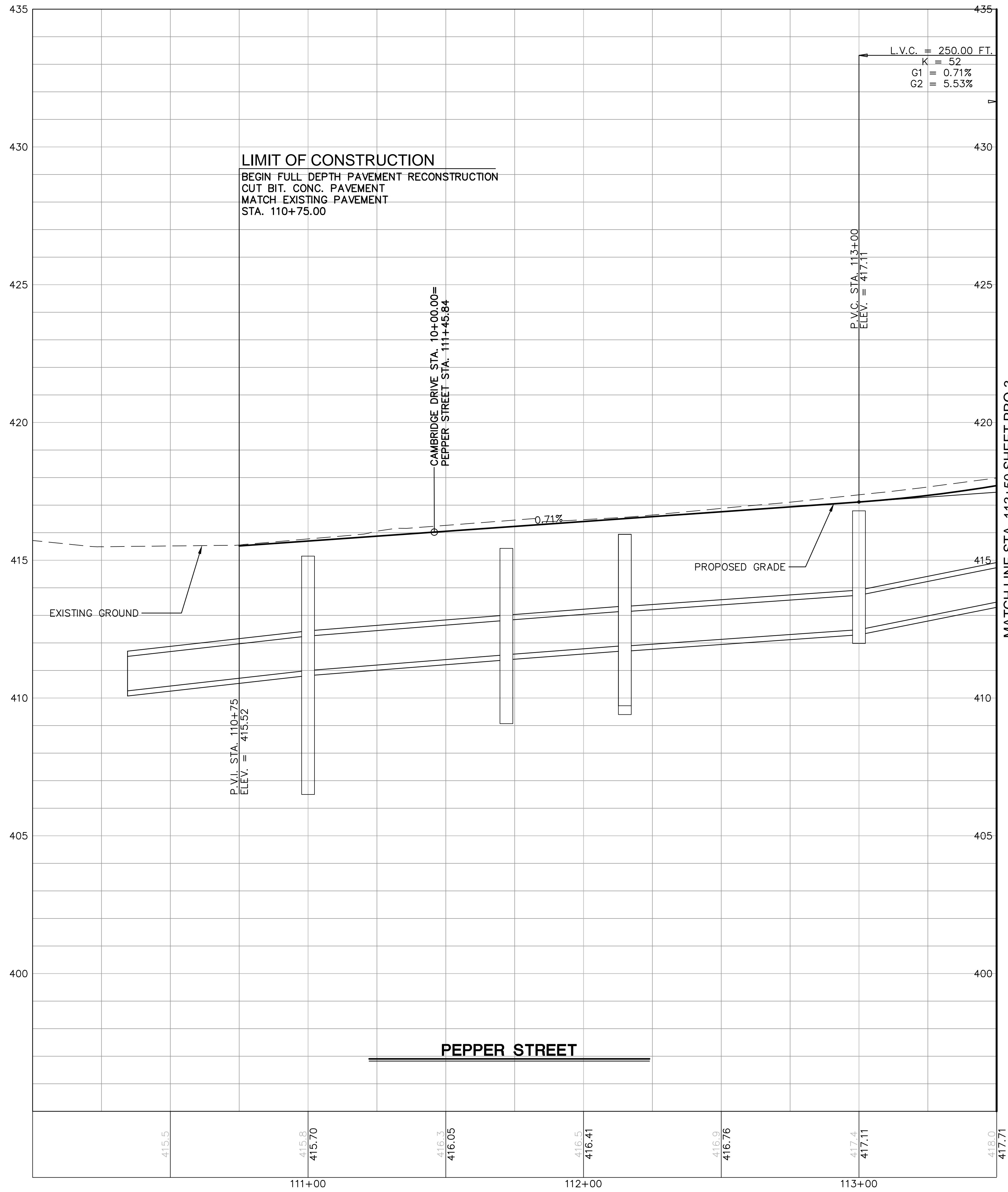
REVISIONS	Date	Desc.
No.	Date	Desc.

Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	AS NOTED
Project No.	12C4326
Date	06/26/2019
CAD File:	TPR012C432601

Title
ROADWAY PROFILE

Sheet No.

PRO-2



ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS	Date	Desc.
No.		

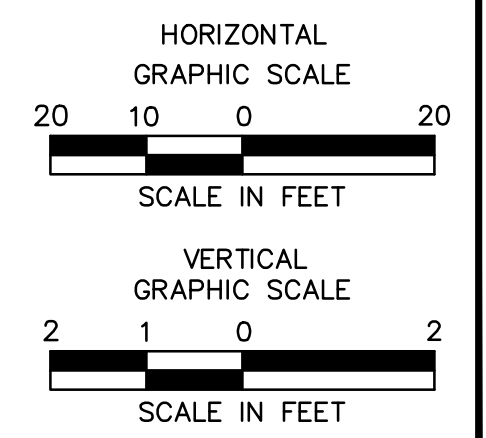
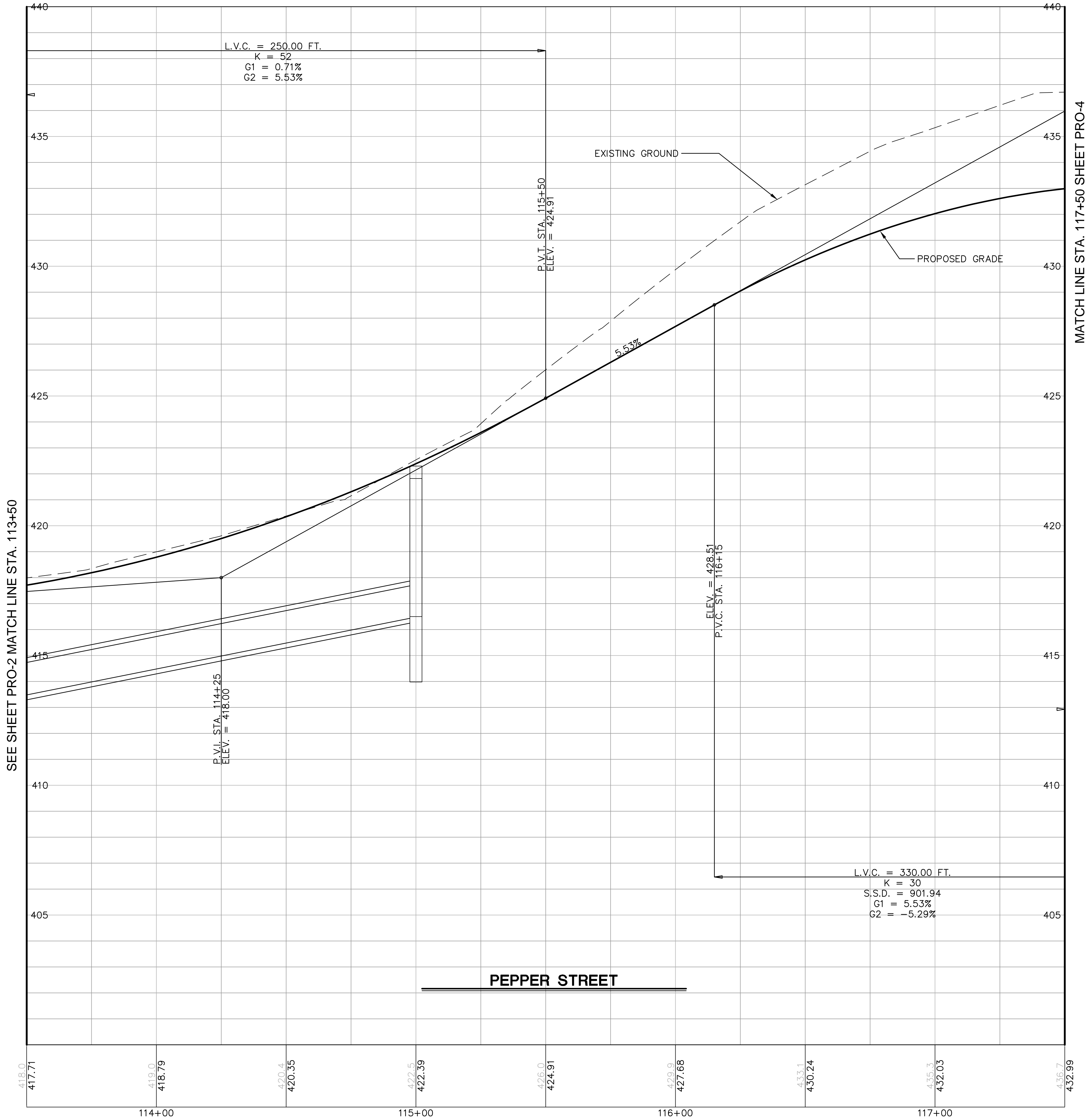
Designed O.L.C.
Drawn O.L.C.
Checked B.J.P.
Approved
Scale AS NOTED
Project No. 12C4326
Date 06/26/2019
CAD File: TPR012C432601

Title
ROADWAY PROFILE

Sheet No.

PRO-3

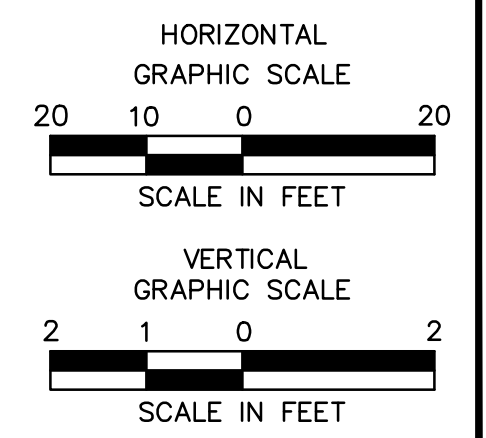
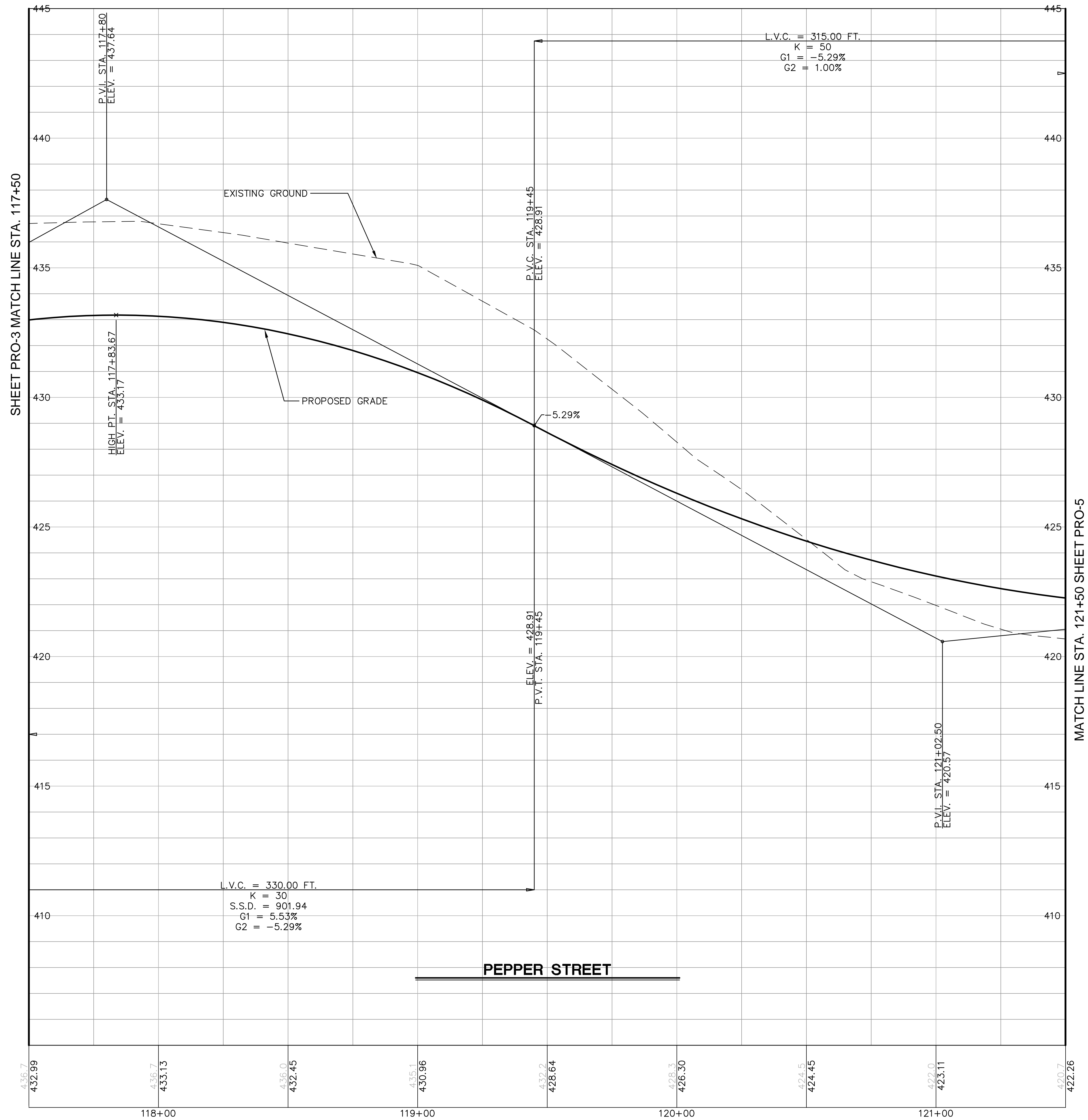
Xref (s) : B012C432601 ; X12C432601 ; X12C432601



ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS	
No.	Date

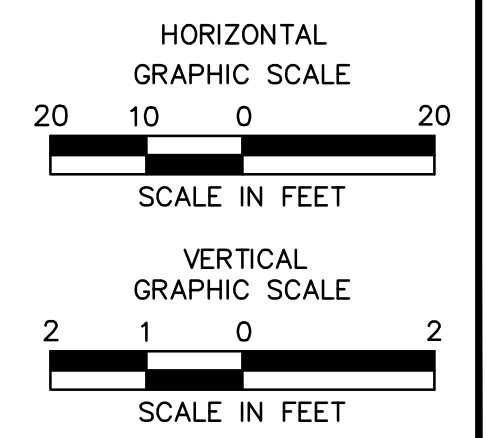
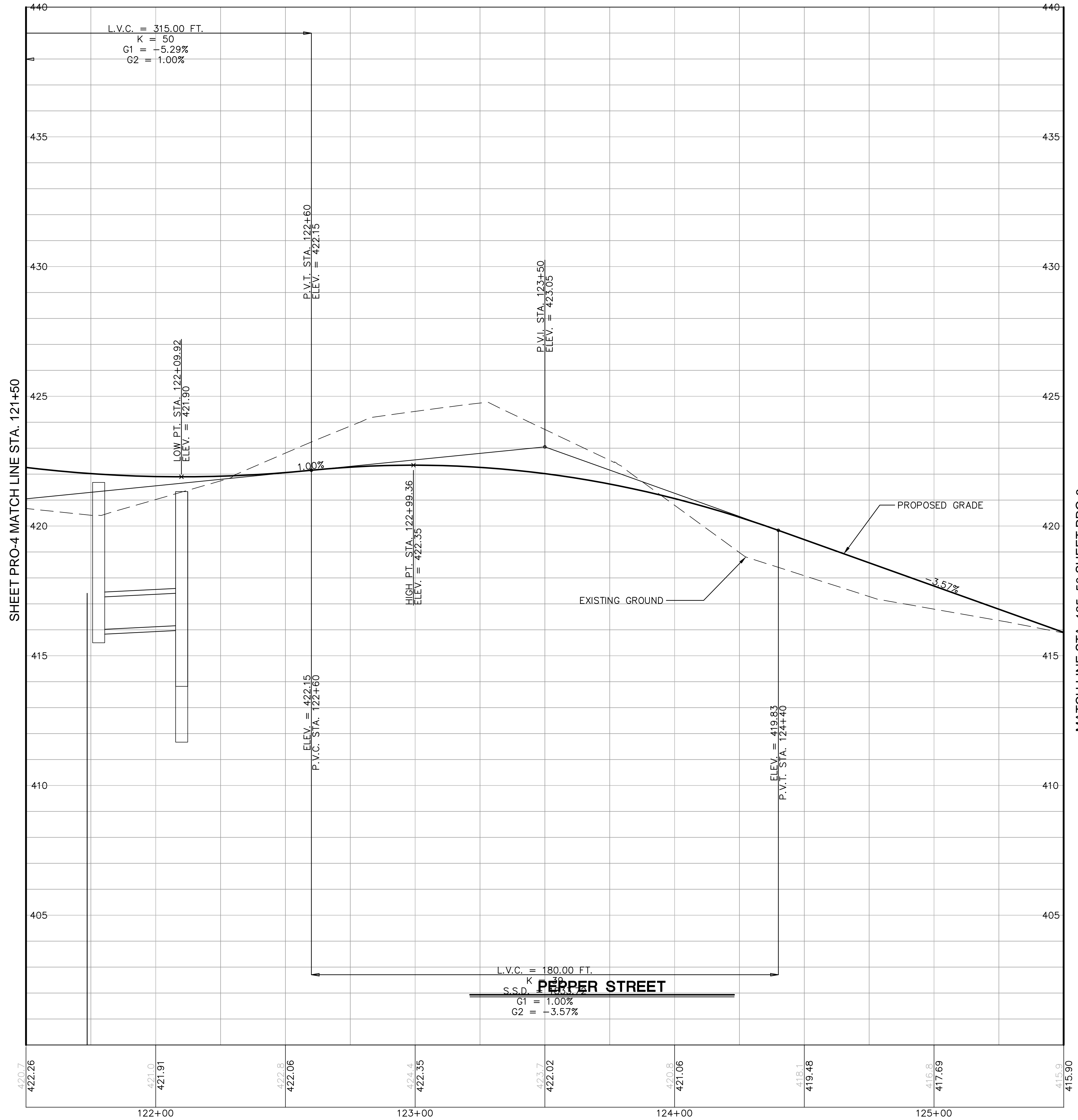
Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	AS NOTED
Project No.	12C4326
Date	06/26/2019
CAD File:	TPRO12C432601



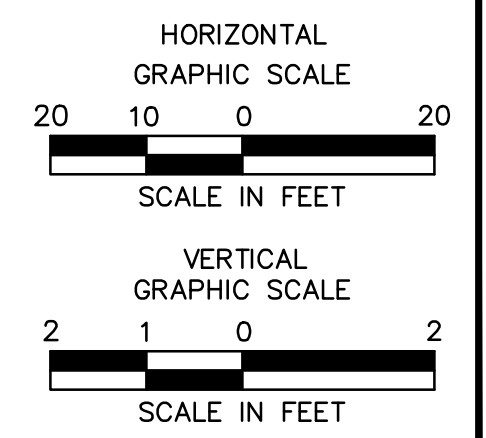
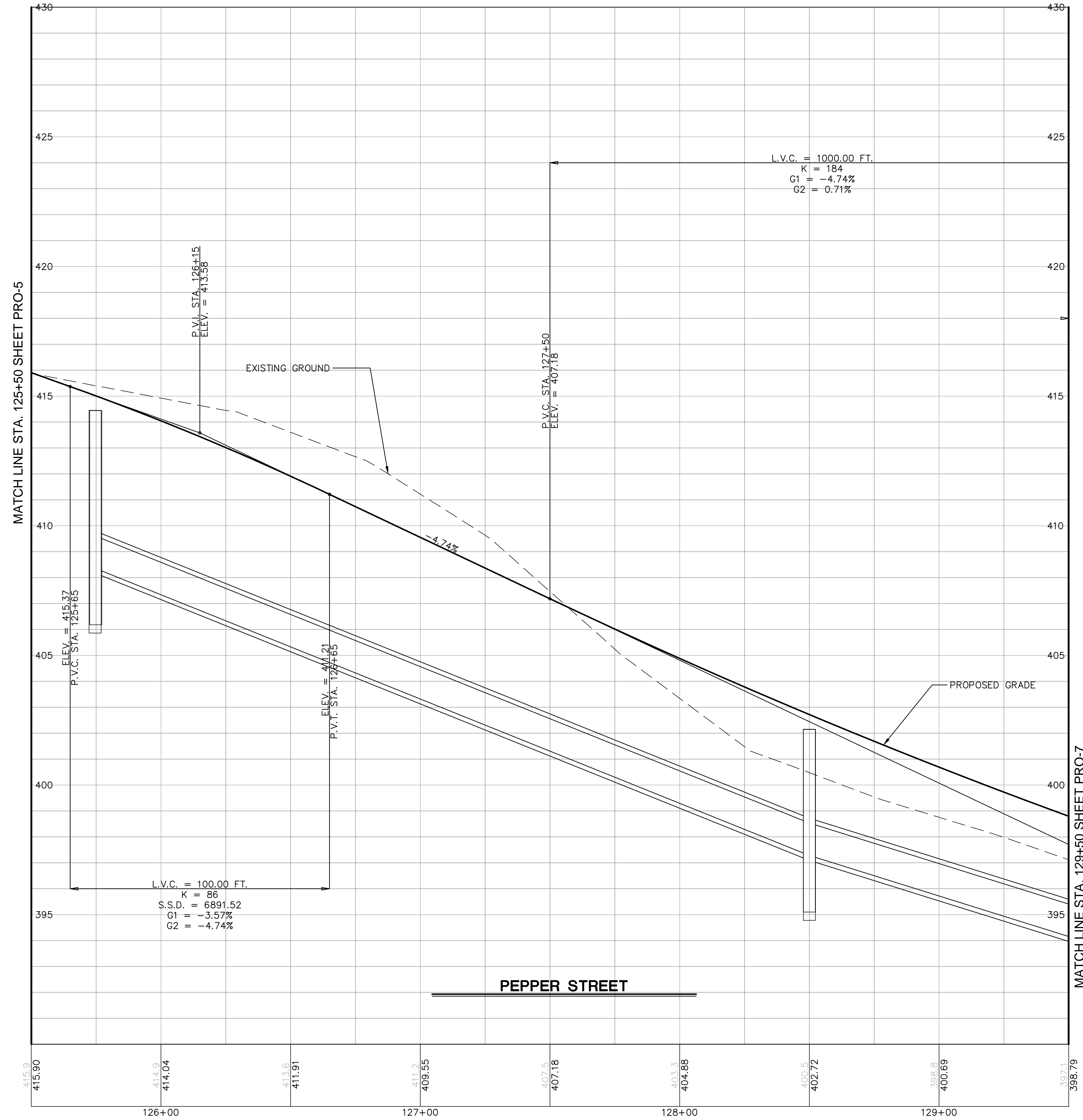
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS	No.	Date	Desc.
Designed			X.X.X.
Drawn			E.L.Z.
Checked			
Approved			
Scale			AS NOTED
Project No.			12C4326
Date			06/26/2019
CAD File:			TPR012C432601

Title
ROADWAY PROFILE
Sheet No.
PRO-5



ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT



REVISIONS	No.	Date	Desc.
Designed			O.L.C.
Drawn			O.L.C.
Checked			B.J.P.
Approved			
Scale			AS NOTED
Project No.			12C4326
Date			06/26/2019
CAD File:			TPRO12C432601

Title
ROADWAY PROFILE

Sheet No.
PRO-6

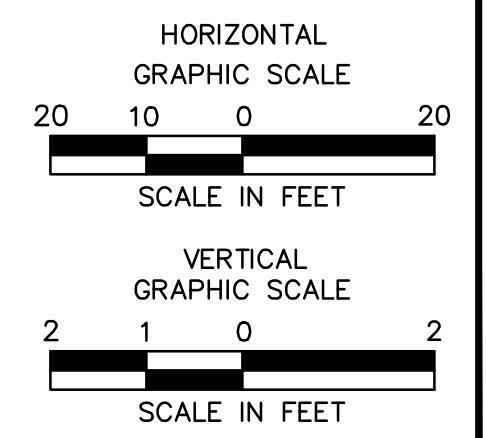
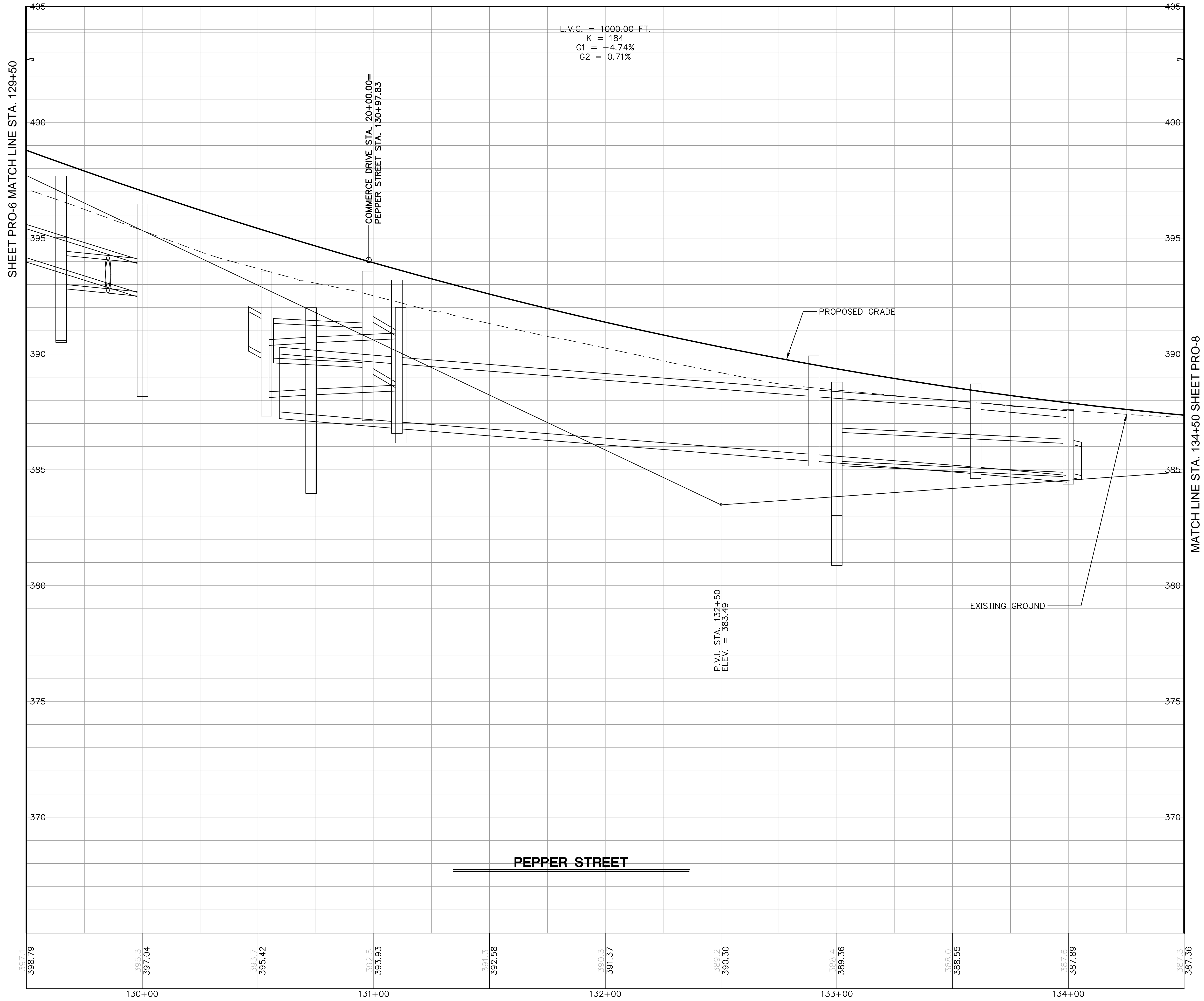
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS	No.	Date	Desc.

Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	AS NOTED
Project No.	12C4326
Date	06/26/2019
CAD File:	TPR012C432601

Title
ROADWAY PROFILE

Sheet No.
PRO-7



SHEET PRO-6 MATCH LINE STA. 129+50

MATCH LINE STA. 134+50 SHEET PRO-8

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS	Date	Desc.
No.		

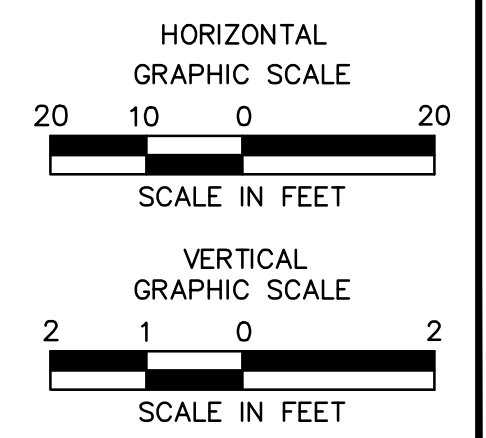
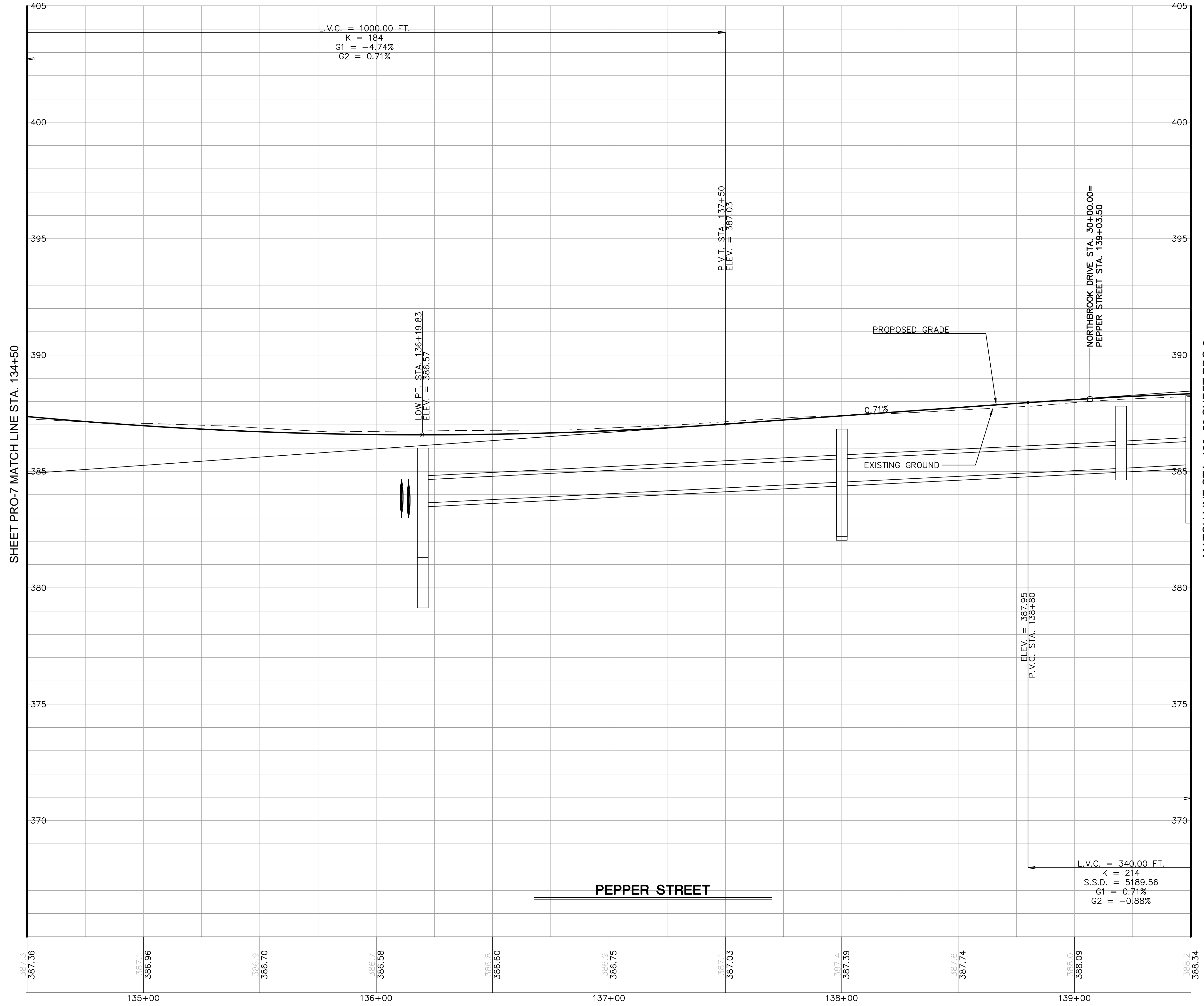
Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	AS NOTED
Project No.	12C4326
Date	06/26/2019
CAD File:	TPRO12C432601

Title
ROADWAY PROFILE

Sheet No.

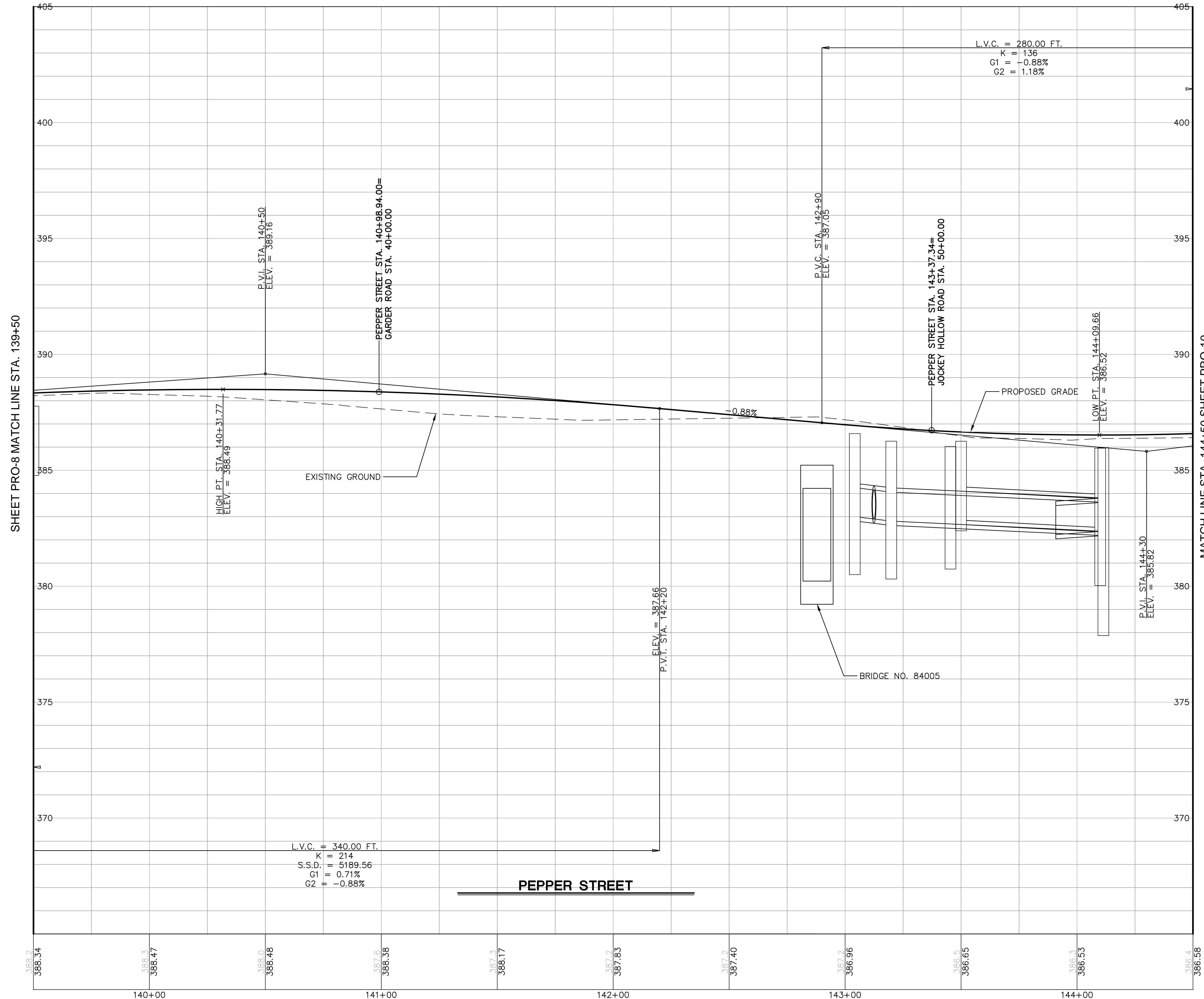
PRO-8

Xref (s) : BDI2C432601 ; XR12C432601 ; XY12C432601



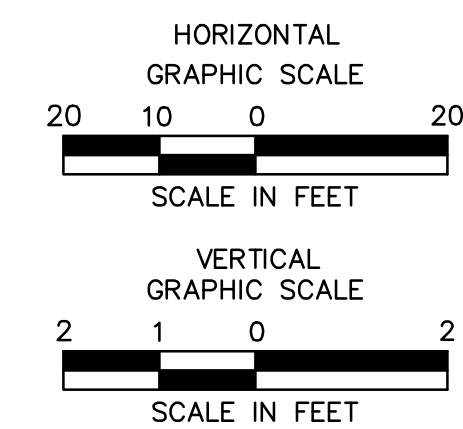
SHEET PRO-7 MATCH LINE STA. 134+50

MATCH LINE STA. 139+50 SHEET PRO-9



SHEET PRO-8 MATCH LINE STA. 139+50

MATCH LINE STA. 144+50 SHEET PRO-10



ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

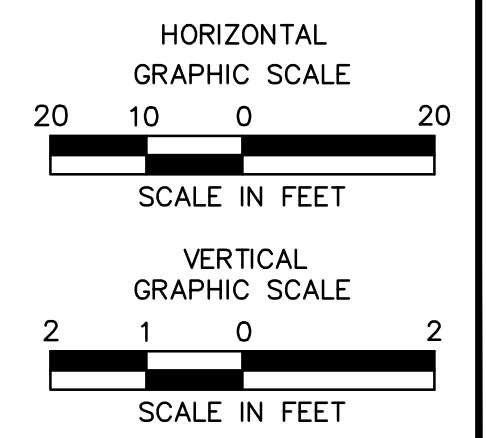
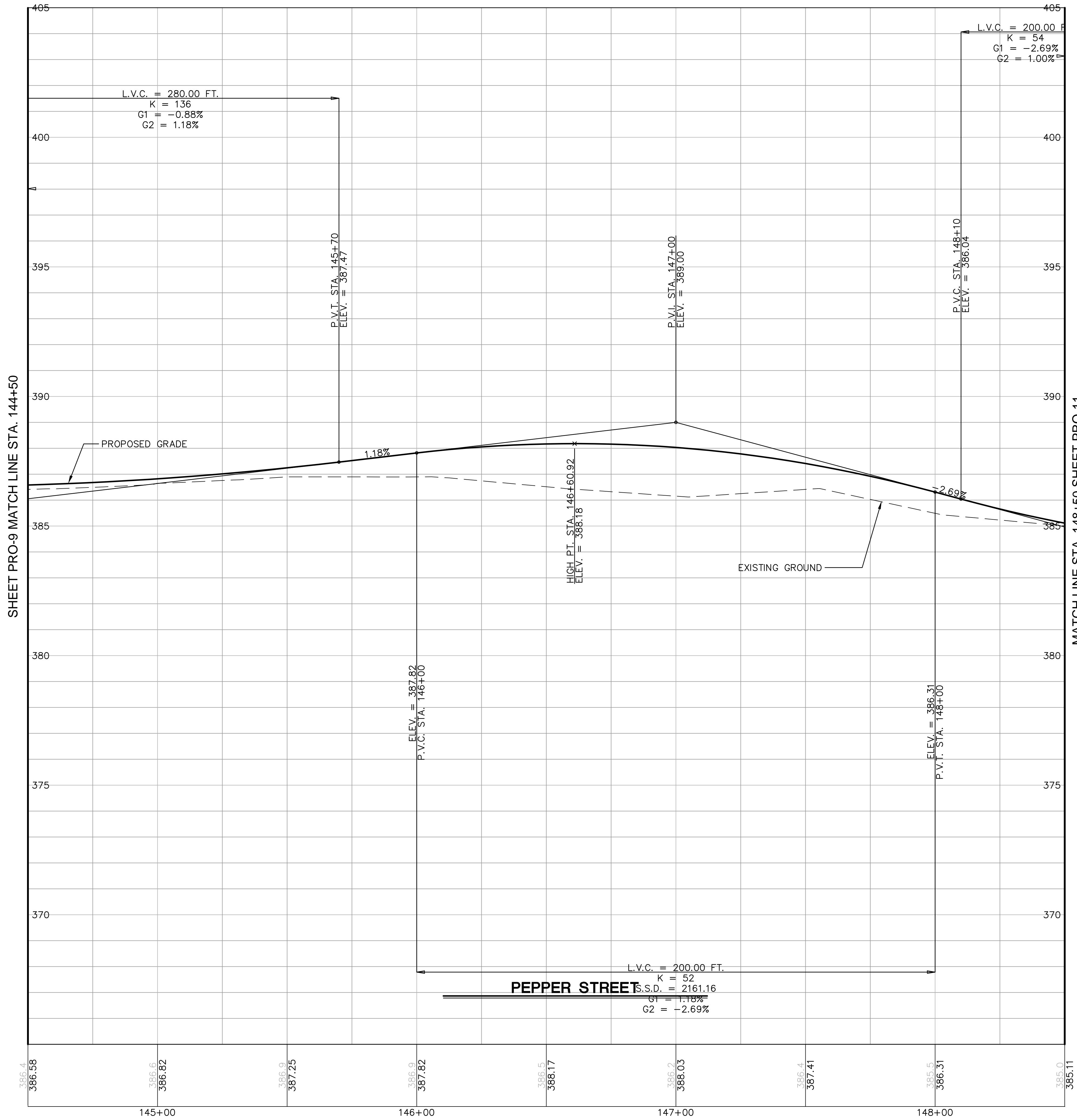
REVISIONS	No.	Date	Desc.

Designed: O.L.C.
 Drawn: O.L.C.
 Checked: B.J.P.
 Approved: AS NOTED
 Scale: 12C4326
 Project No.: 06/26/2019
 Date: TPO12C432601
 CAD File: PRO12C432601

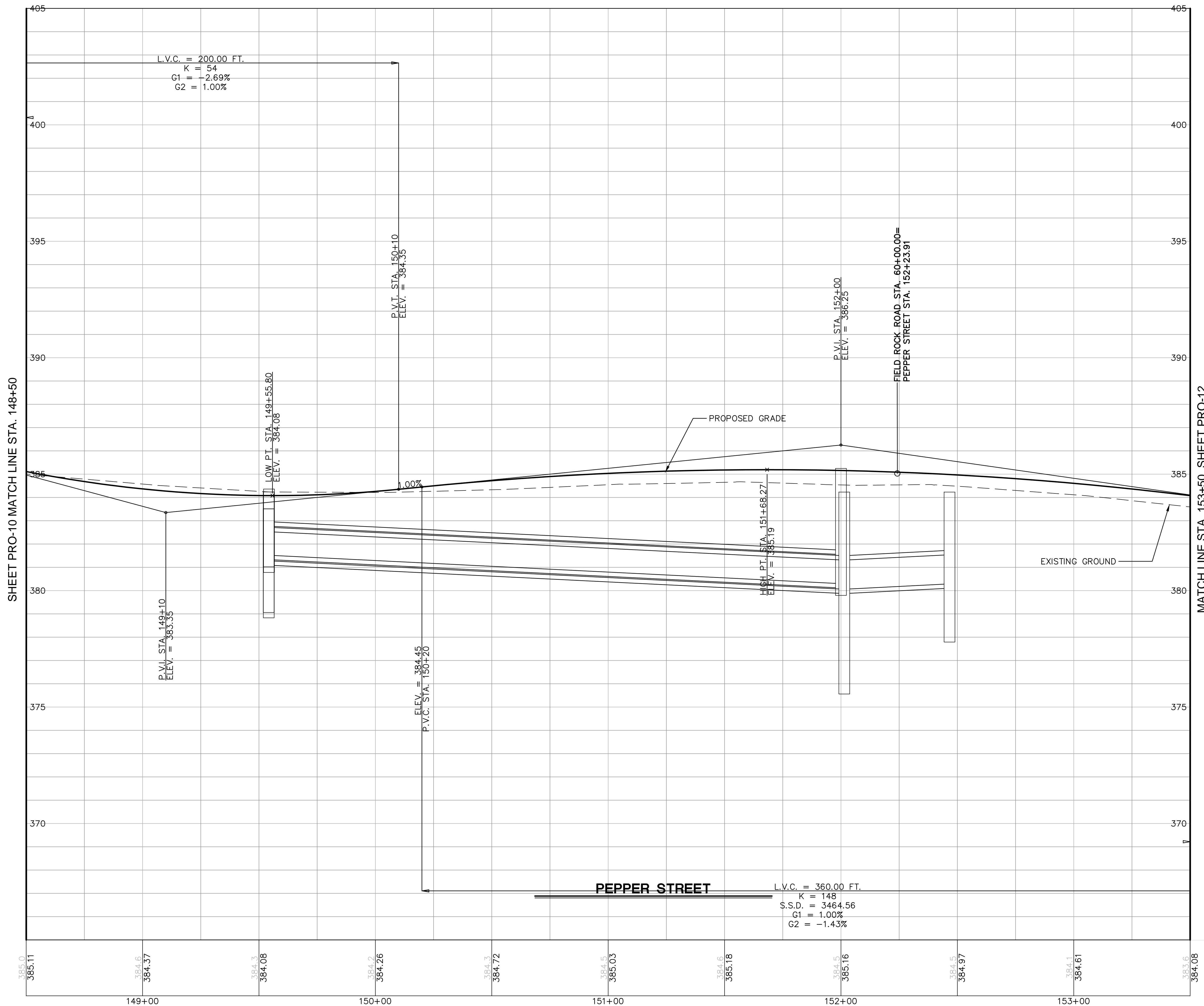
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS	Date	Desc.

Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	AS NOTED
Project No.	12C4326
Date	06/26/2019
CAD File:	TPR012C432601

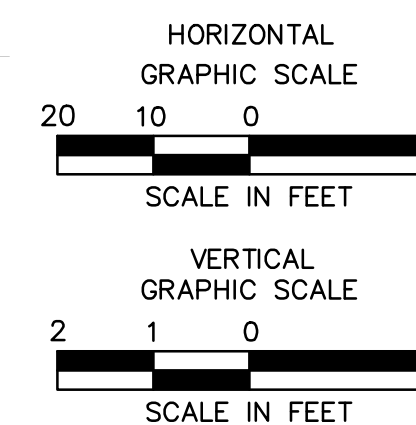


ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT



SHEET PRO-10 MATCH LINE STA. 148+50

MATCH LINE STA. 153+50 SHEET PRO-12



REVISIONS	Date	Desc.
No.		

Designed: O.L.C.
 Drawn: O.L.C.
 Checked: B.J.P.
 Approved: _____
 Scale: AS NOTED
 Project No.: 12C4326
 Date: 06/26/2019
 CAD File: TPRO12C432601

Title: ROADWAY PROFILE

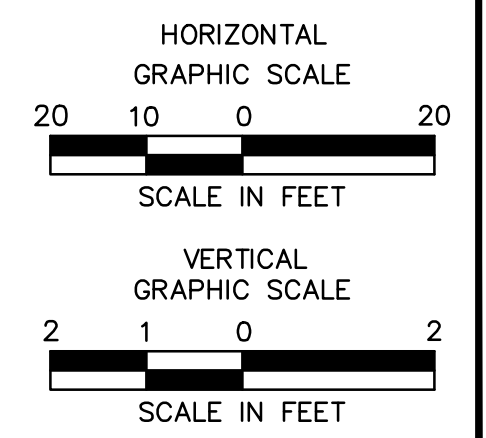
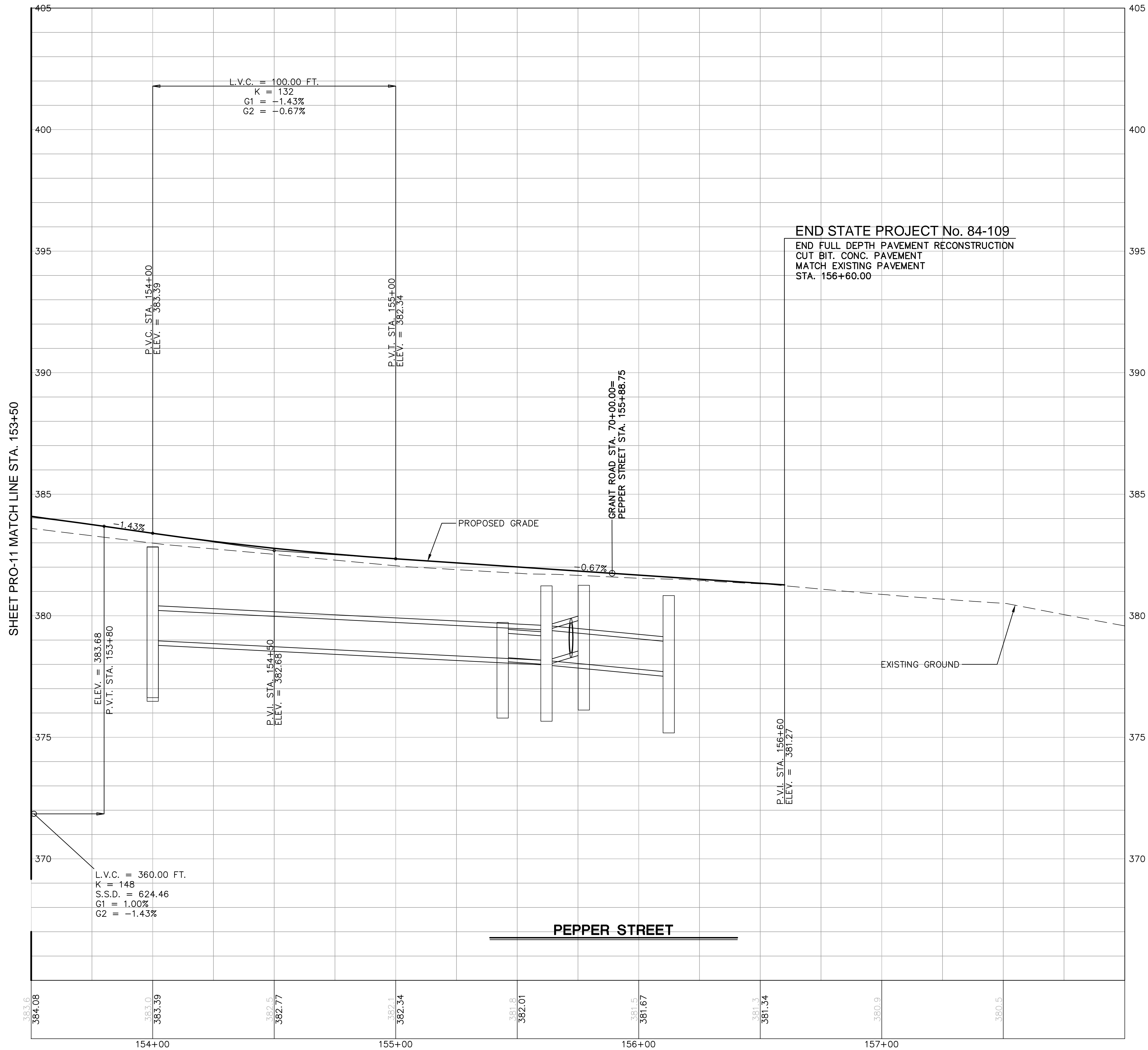
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PRO-11

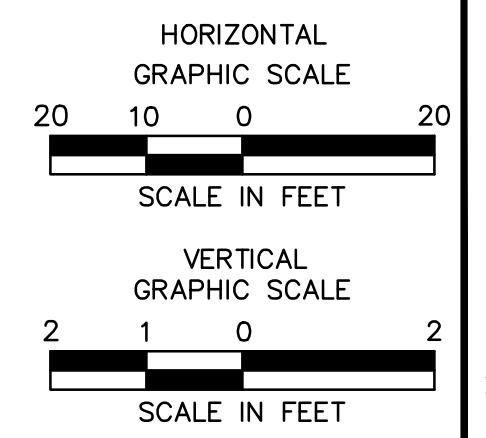
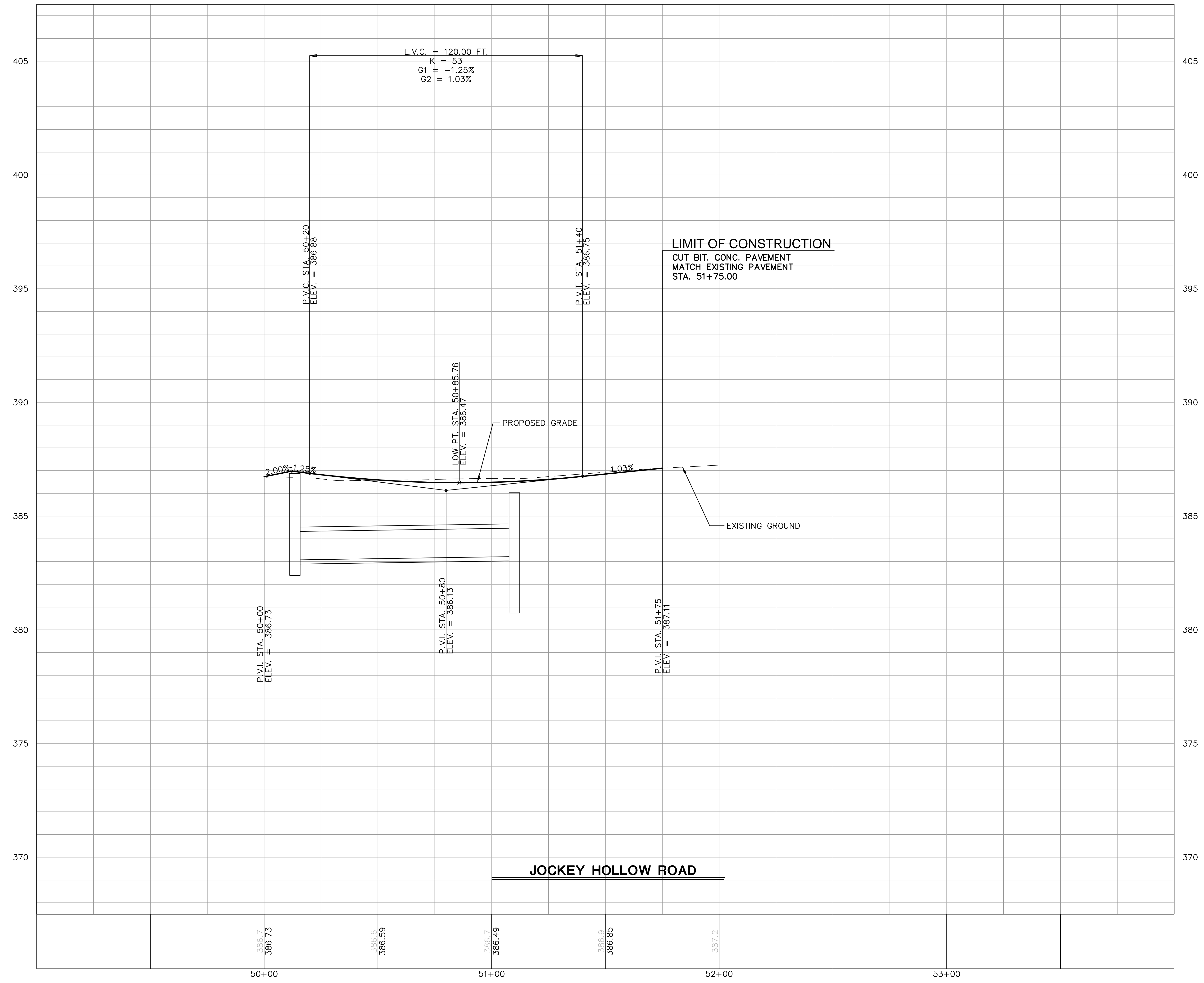
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS	No.	Date	Desc.

Designed: O.L.C.
Drawn: O.L.C.
Checked: B.J.P.
Approved: AS NOTED
Project No.: 12C4326
Date: 06/26/2019
CAD File: TPR012C432601
Title: ROADWAY PROFILE
Sheet No.: PRO-12



**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**



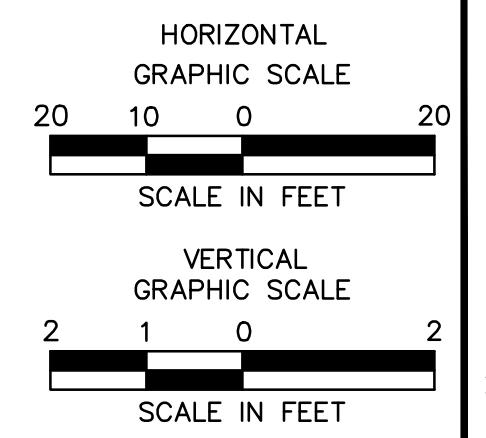
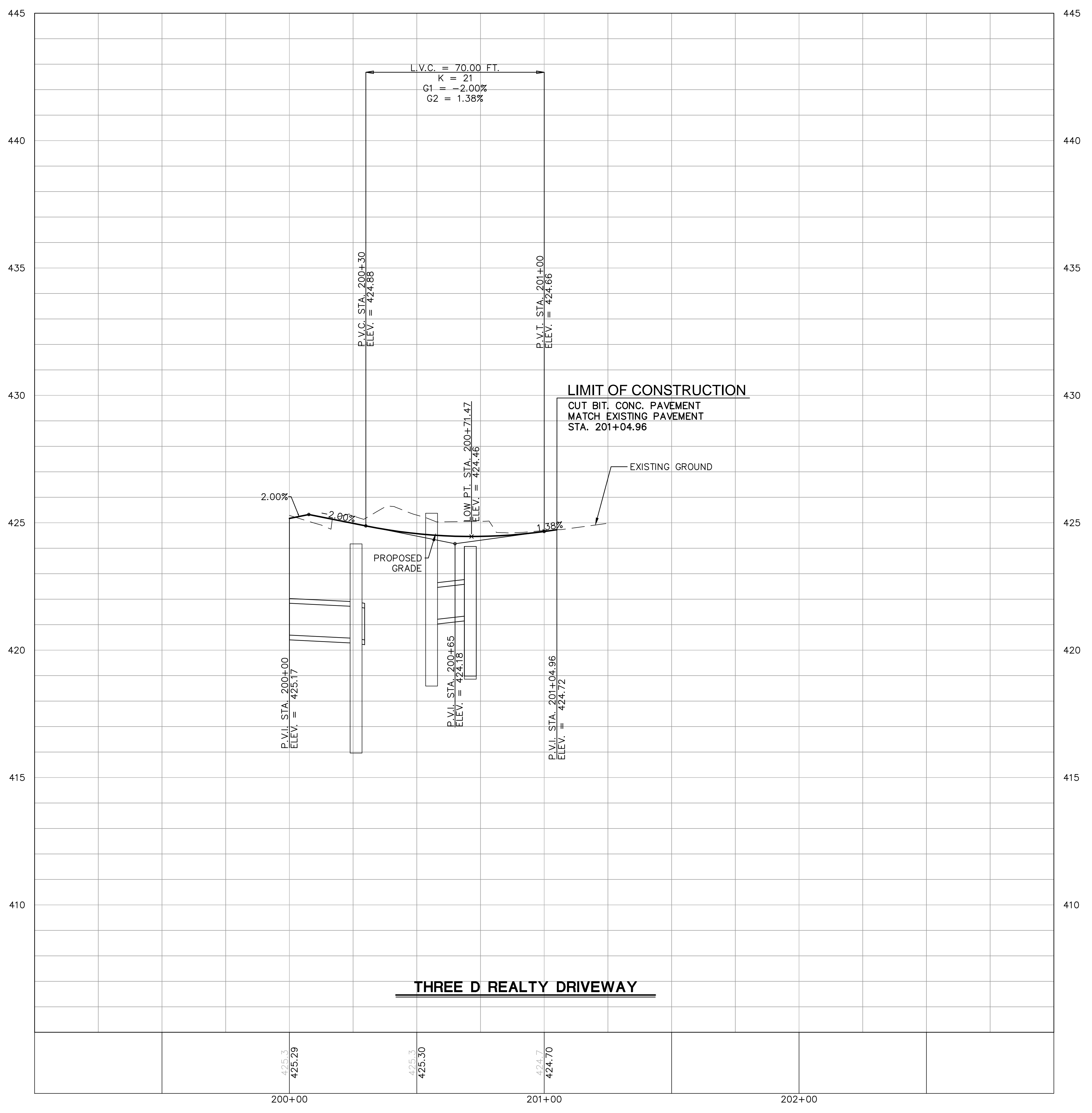
REVISIONS	No.	Date	Desc.
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Drawn			O.L.C.
Checked			B.J.P.
Approved			AS NOTED
Scale			AS NOTED
Project No.			12C4326
Date			06/26/2019
CAD File:			TPRO12C432601

Title
ROADWAY PROFILE

Sheet No.

PRO-14

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**



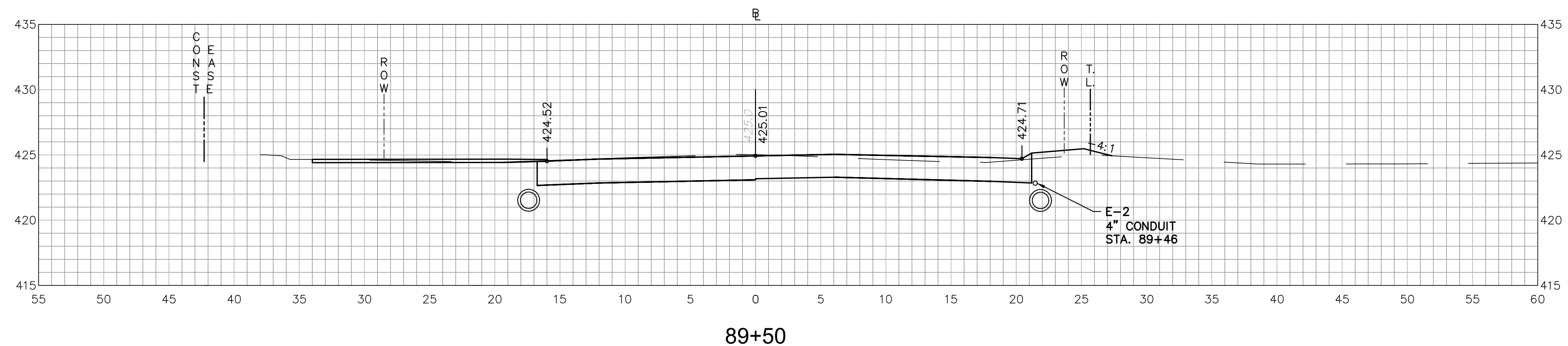
REVISIONS	No.	Date	Desc.
Designed			O.L.C.
Drawn			O.L.C.
Checked			B.J.P.
Approved			AS NOTED
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Project No.			12C4326
Date			06/26/2019
CAD File:			TFR012C432601

Title
ROADWAY PROFILE

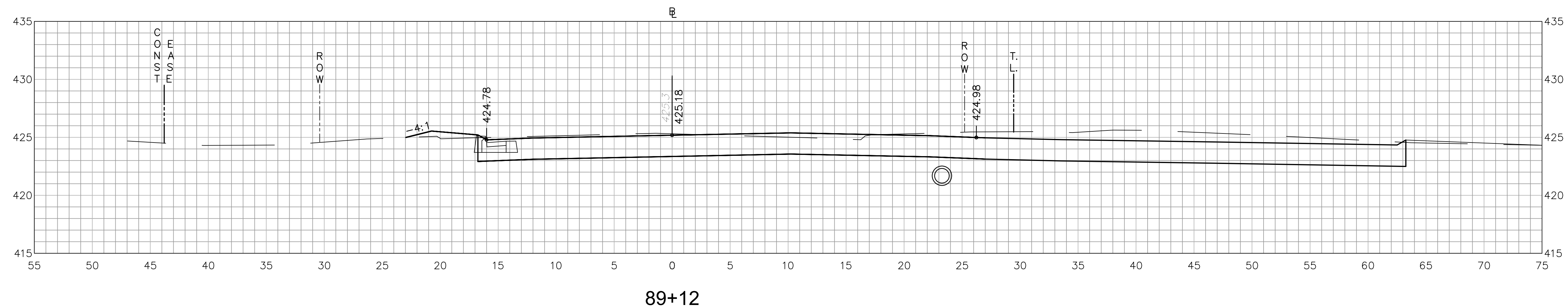
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PRO-15

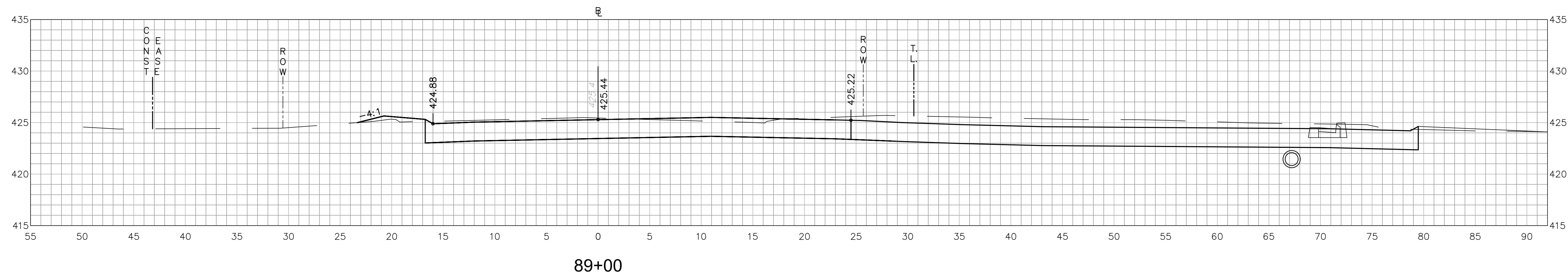
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT



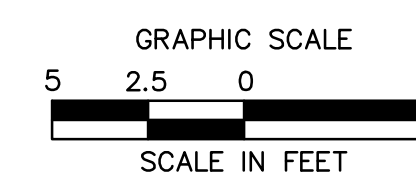
89+50



89+12



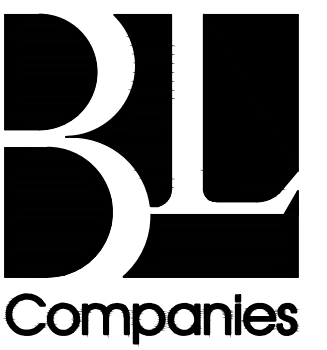
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REVISIONS	Date	Desc.
No.		

Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	1"=5'
Project No.	12C4326
Date	06/26/2019
CAD File:	TXSC12C432601

Title	CROSS-SECTION SHEET
Sheet No.	XSC-2

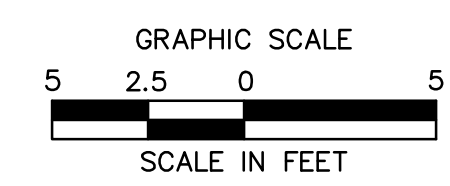
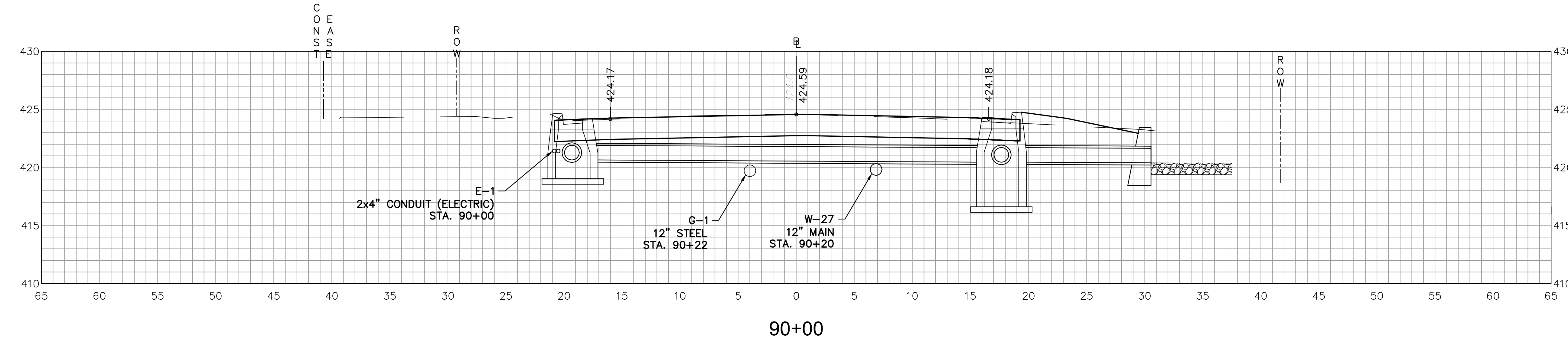
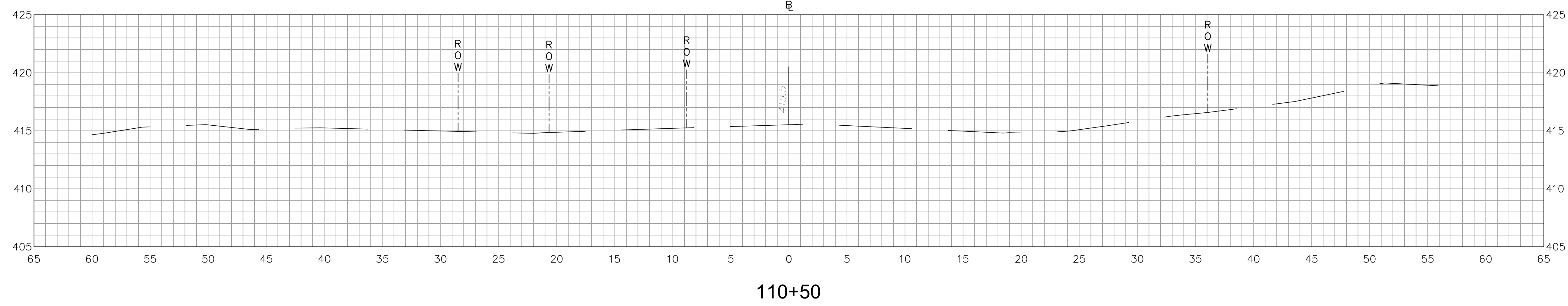
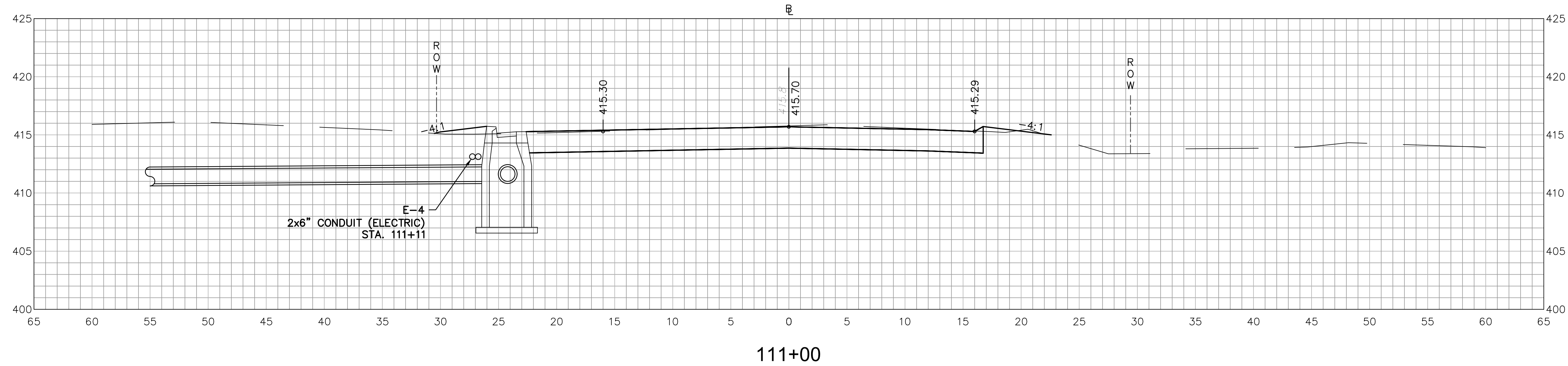


Companies

ARCHITECTURE
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ENVIRONMENTAL
LAND SURVEYING

355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT



REVISIONS	No.	Date	Desc.

Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	1"=5'
Project No.	12C4326
Date	06/26/2019
CAD File:	TXSC12C432601

Title
CROSS-SECTION SHEET

Sheet No.
XSC-3

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

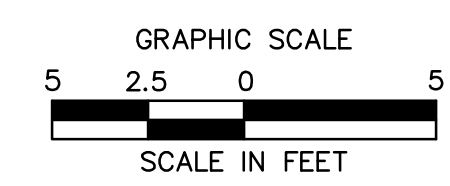
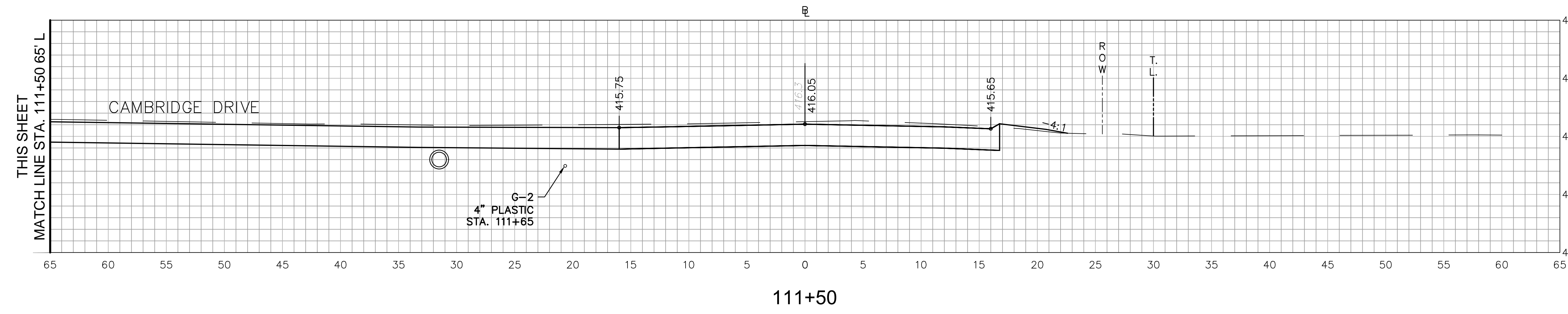
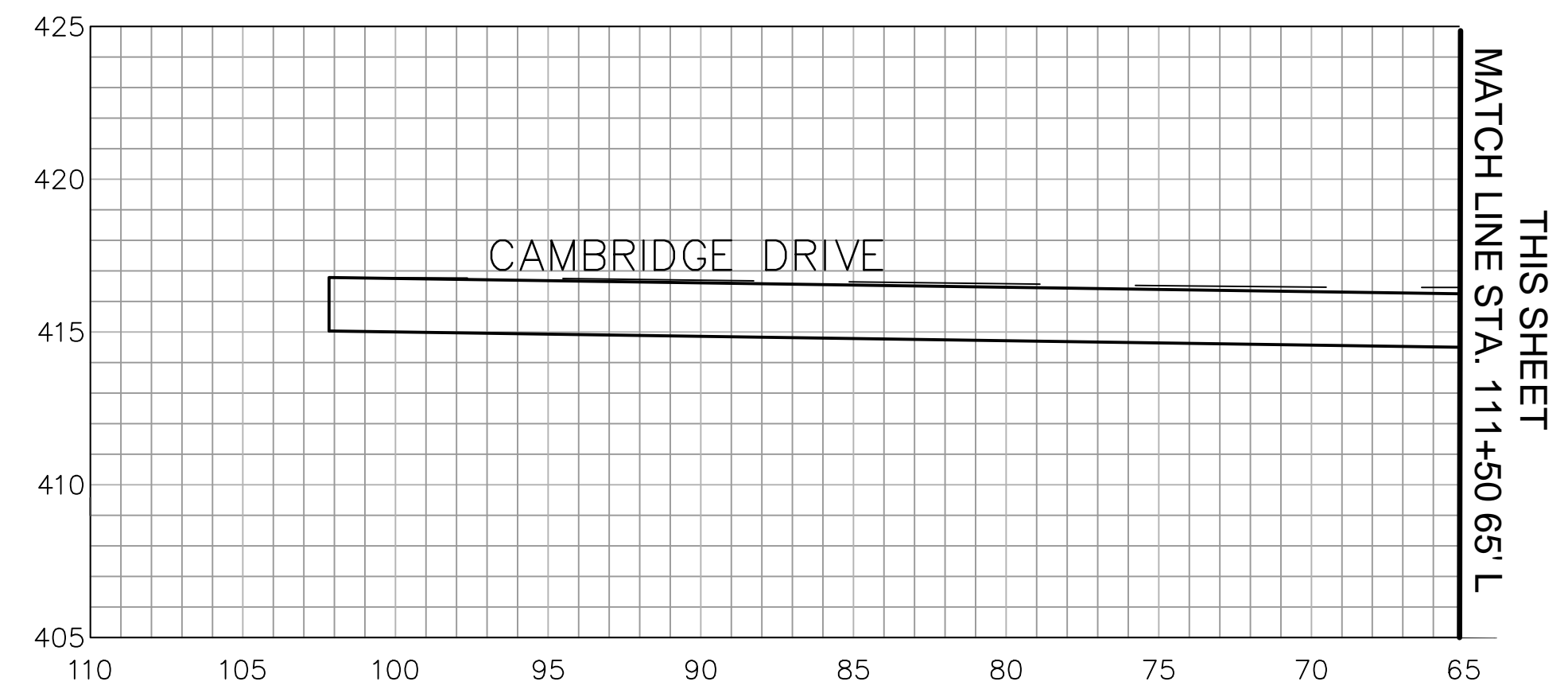
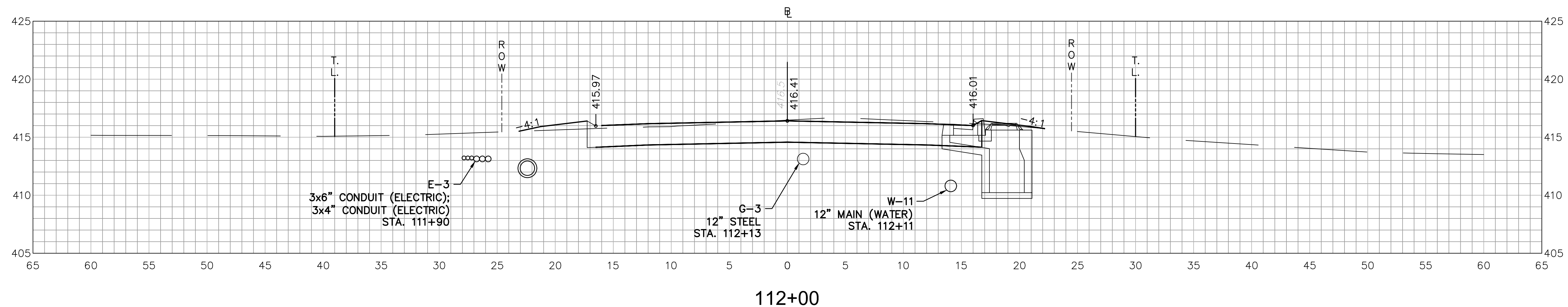
REVISIONS
No. Date Desc.

Designed O.L.C.
Drawn O.L.C.
Checked B.J.P.
Approved
Scale 1"=5'
Project No. 12C4326
Date 06/26/2019
CAD File: TXSC12C432601

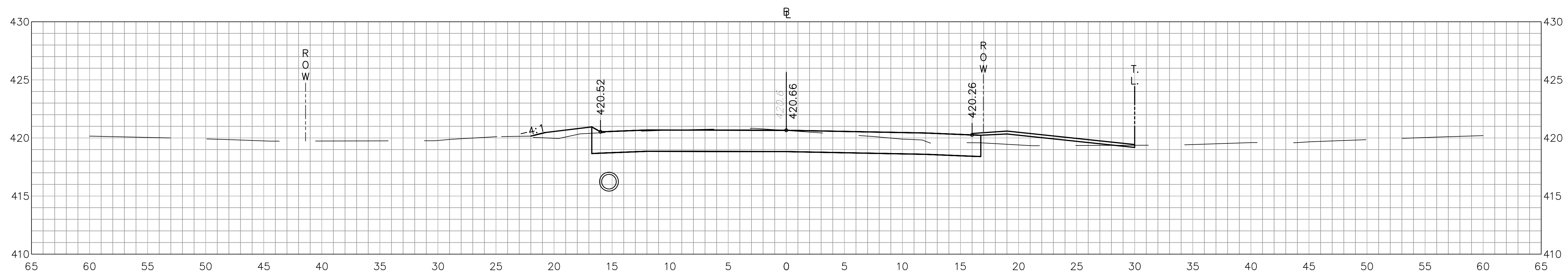
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CROSS-SECTION SHEET

Sheet No.

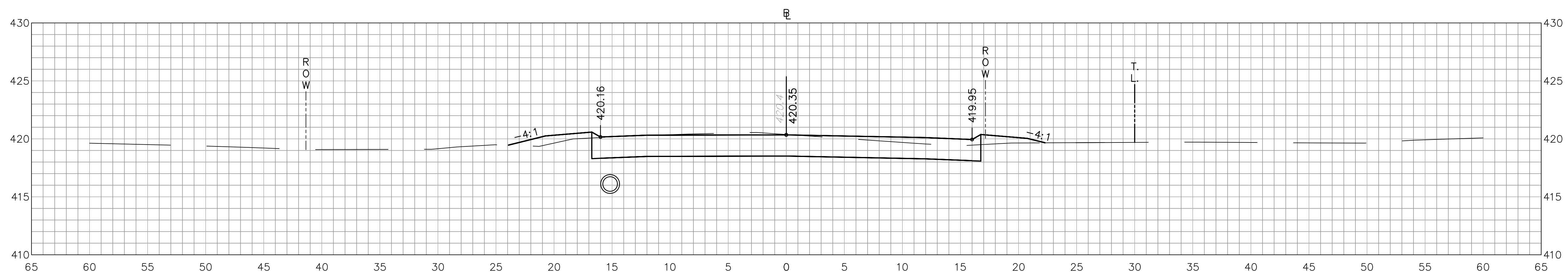
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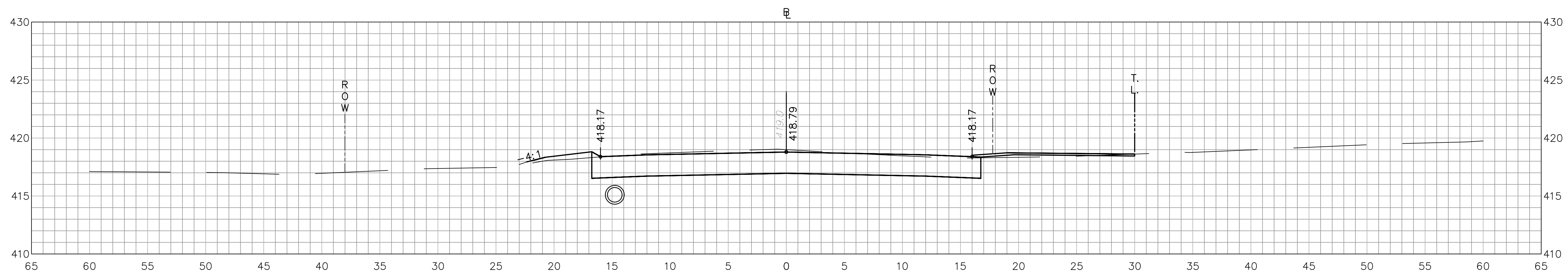
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT



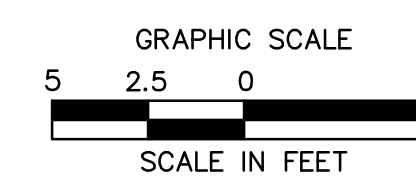
114+58



114+50



114+00



No.	Date	Desc.

Designed O.L.C.
Drawn O.L.C.
Checked B.J.P.
Approved
Scale 1"=5'
Project No. 12C4326
Date 06/26/2019
CAD File: TXSC12C432601

Title CROSS-SECTION SHEET

Sheet No.

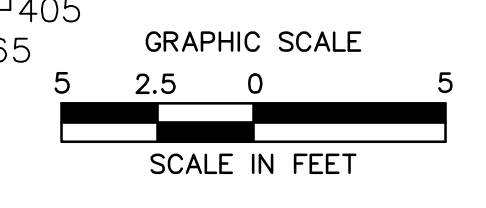
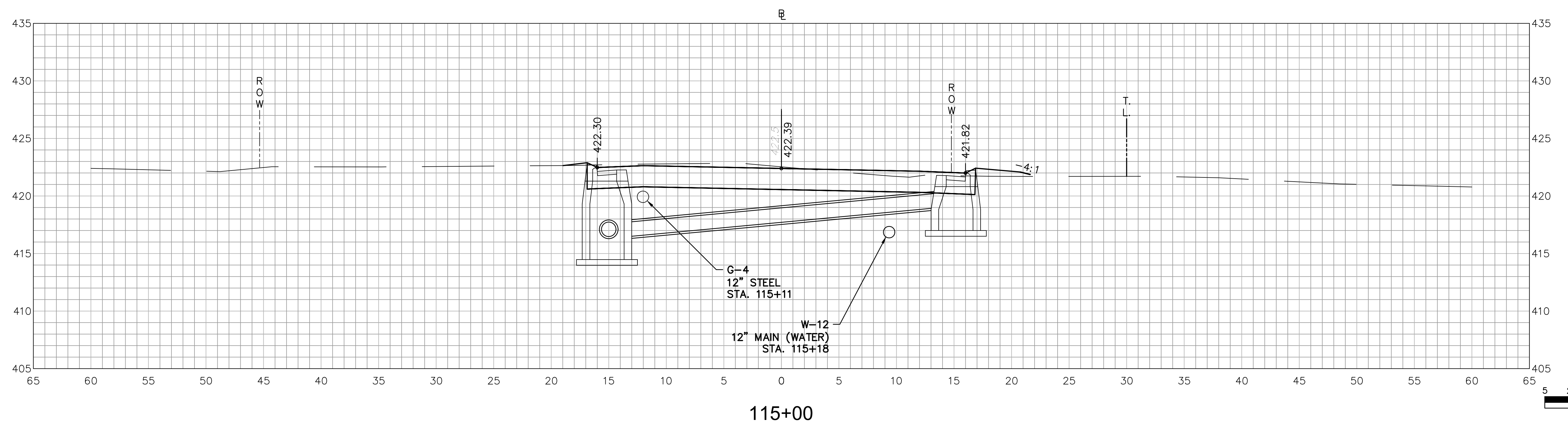
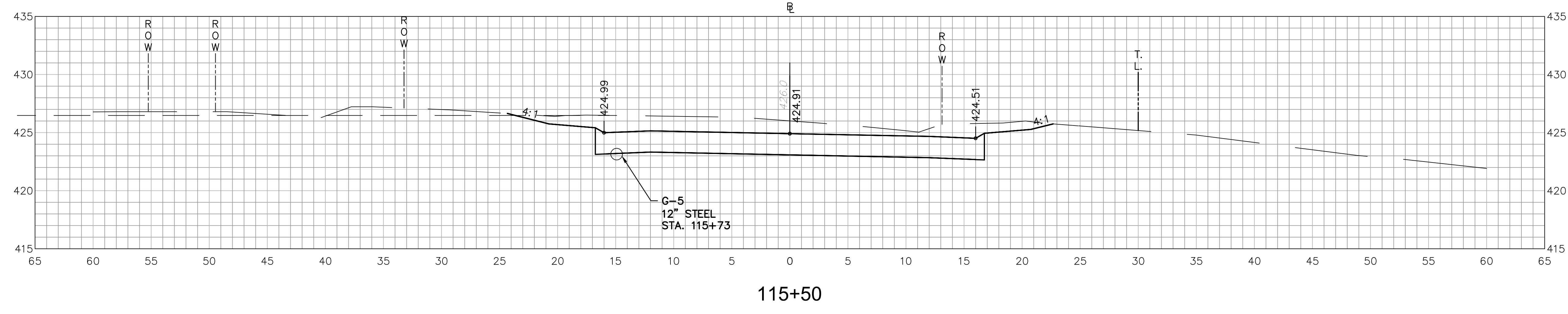
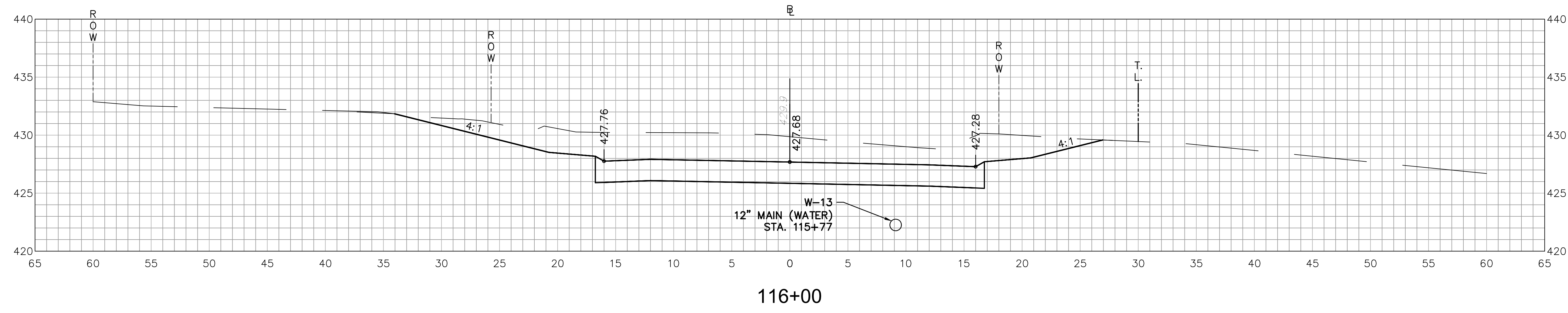
XSC-6



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355 Research Parkway
Menden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

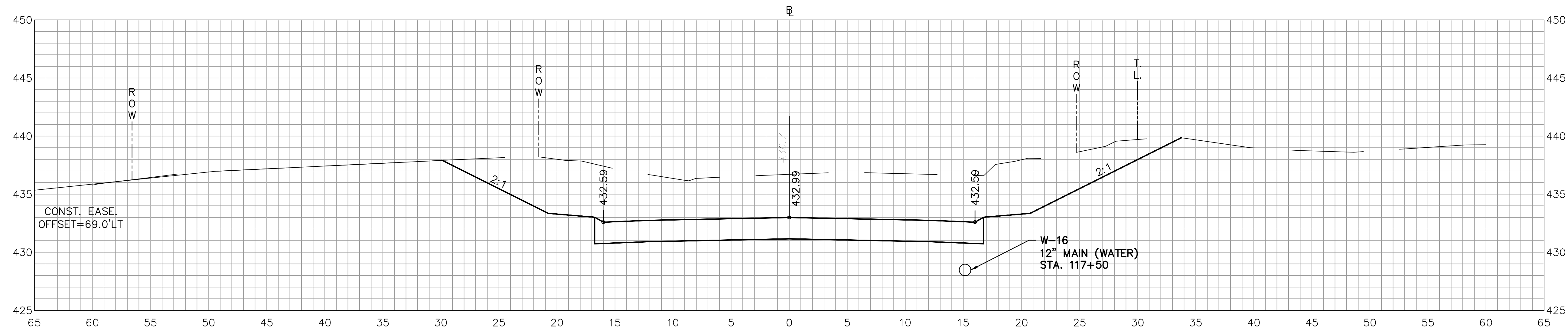


6/26/2019, CHASTRANG, G. \ARBITRA\PC\12C4326\DWG\XSC-07_24X36.dwg

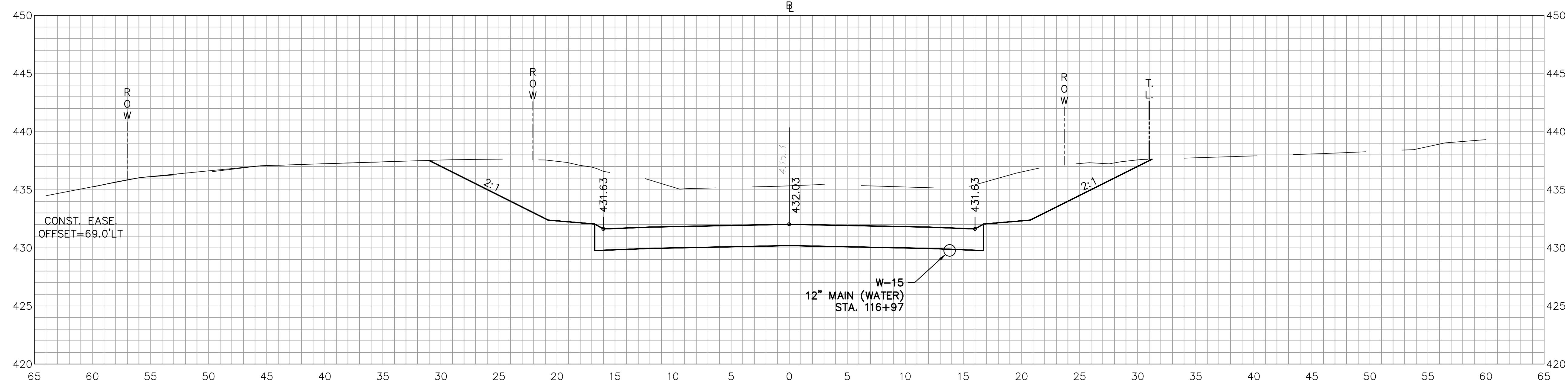
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Designed			O.L.C.
Drawn			O.L.C.
Checked			B.J.P.
Approved			
Scale			1"=5'
Project No.			12C4326
Date			06/26/2019
CAD File:			TXSC12C432601
Title	CROSS-SECTION SHEET		
Sheet No.	XSC-7		

Xref (s) : B012C432601 : XRF12C432603

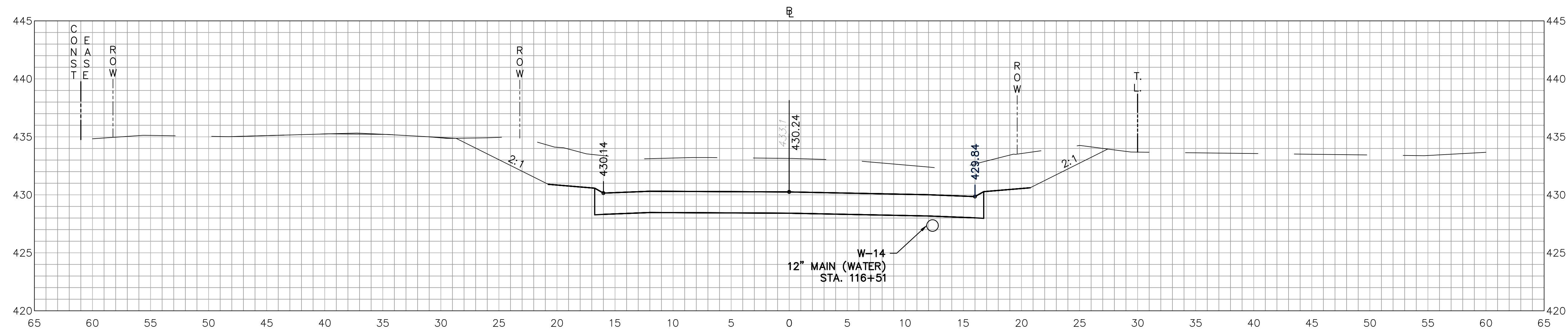
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT



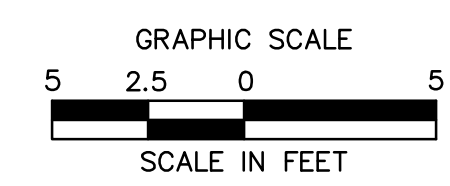
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117+00



116+50

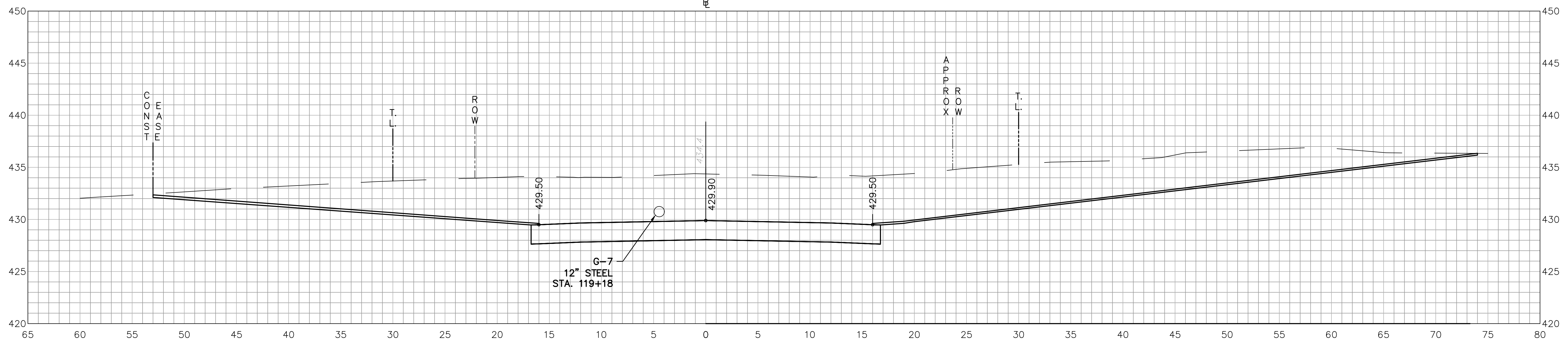
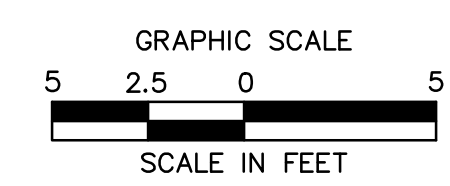
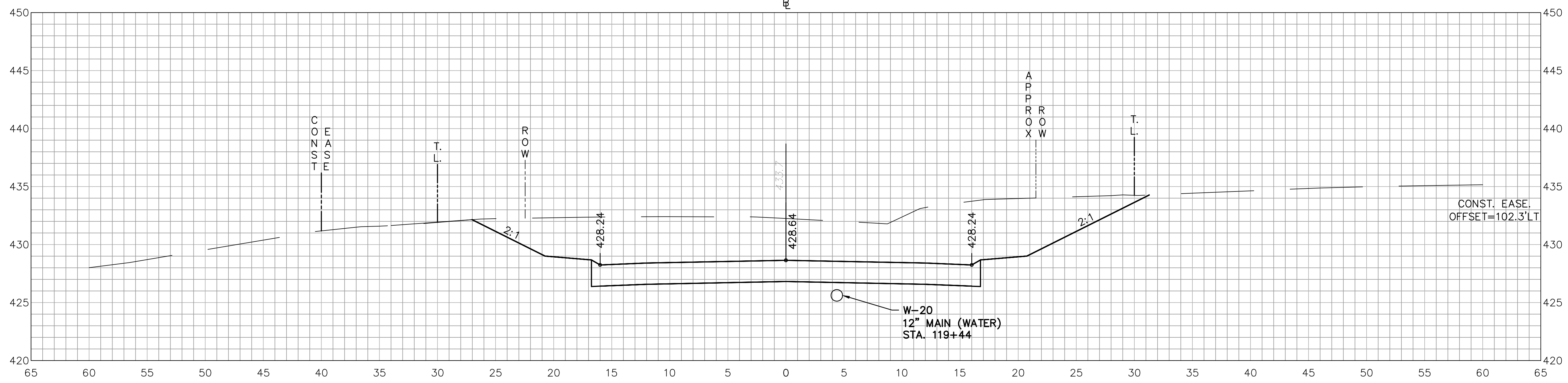
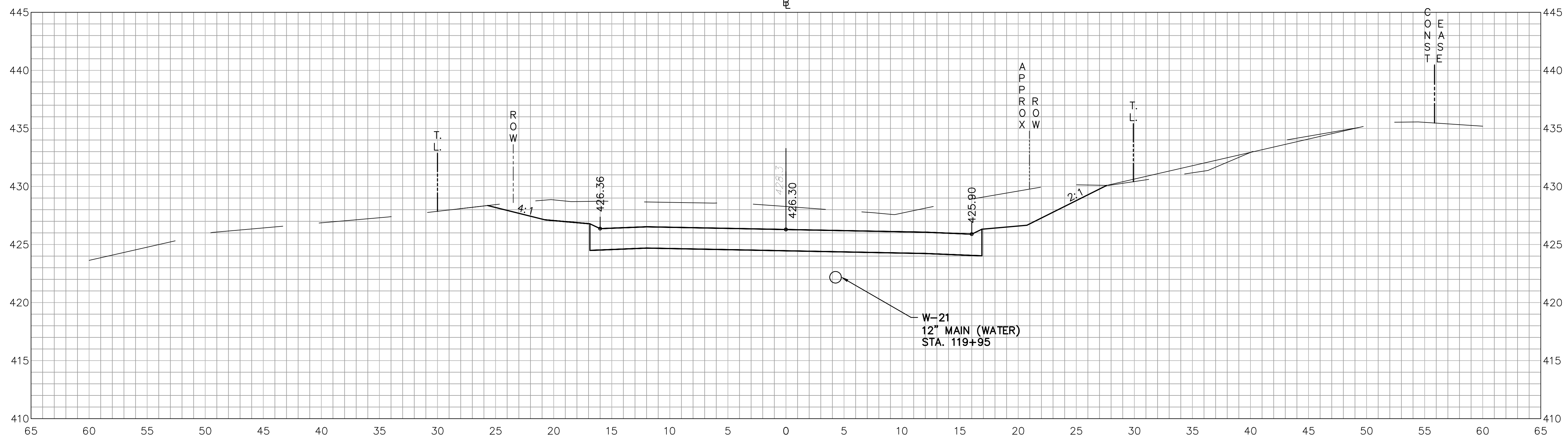


REV. No.	Date	Desc.

Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	1"=5'
Project No.	12C4326
Date	06/26/2019
CAD File:	TXSC12C432601

Title	CROSS-SECTION SHEET
Sheet No.	XSC-8

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT



REVISIONS	No.	Date	Desc.

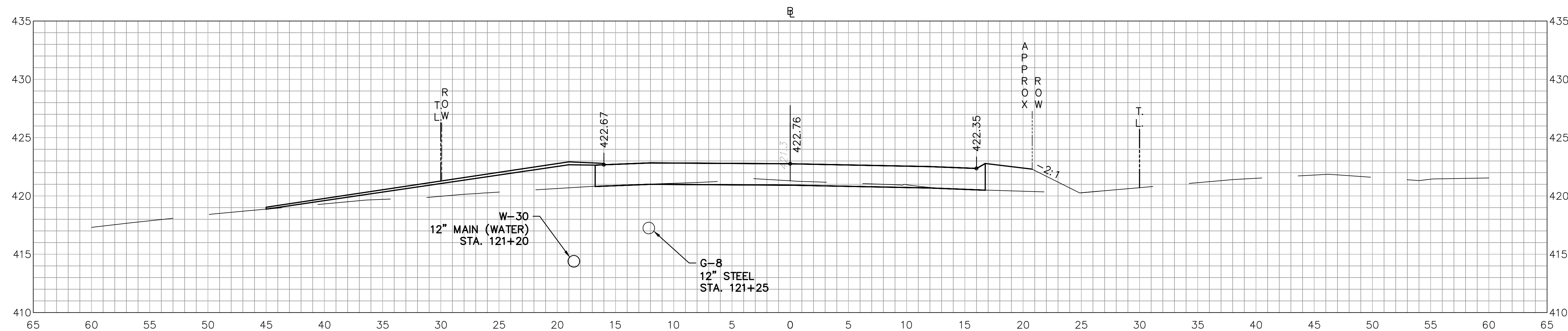
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Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	1"=5'
Project No.	12C4326
Date	06/26/2019
CAD File:	TXSC12C432601

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

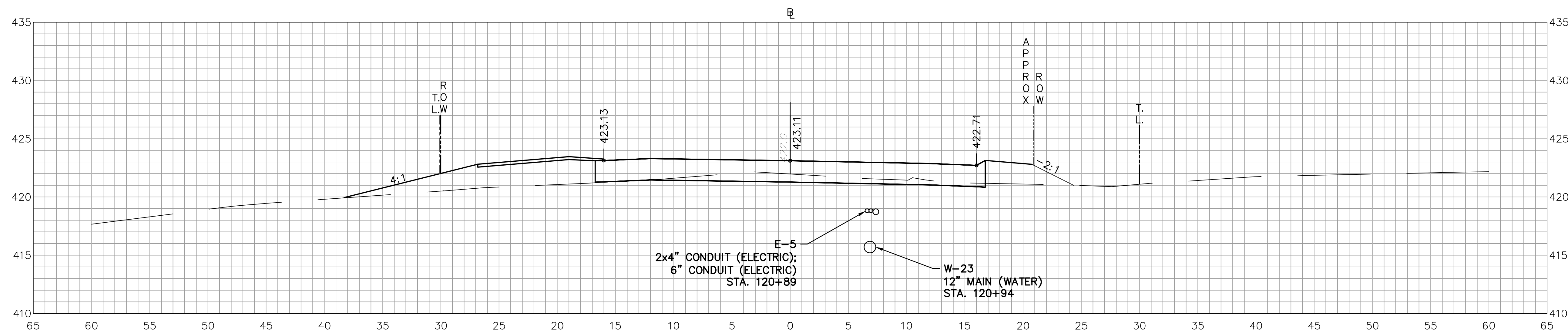
REVISIONS	No.	Date	Desc.

Designed: O.L.C.
 Drawn: O.L.C.
 Checked: B.J.P.
 Approved: 1"=5'
 Scale: 12C4326
 Project No.: 06/26/2019
 Date: TXSC12C432601
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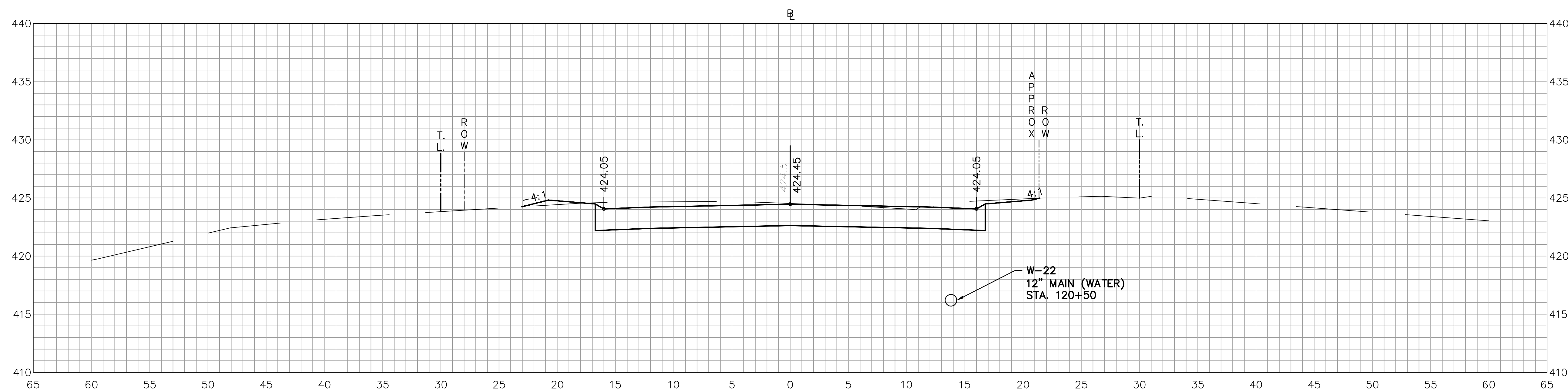
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 Sheet No.: **XSC-11**



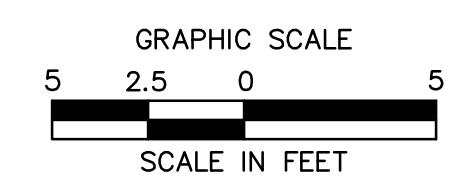
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121+00



120+50



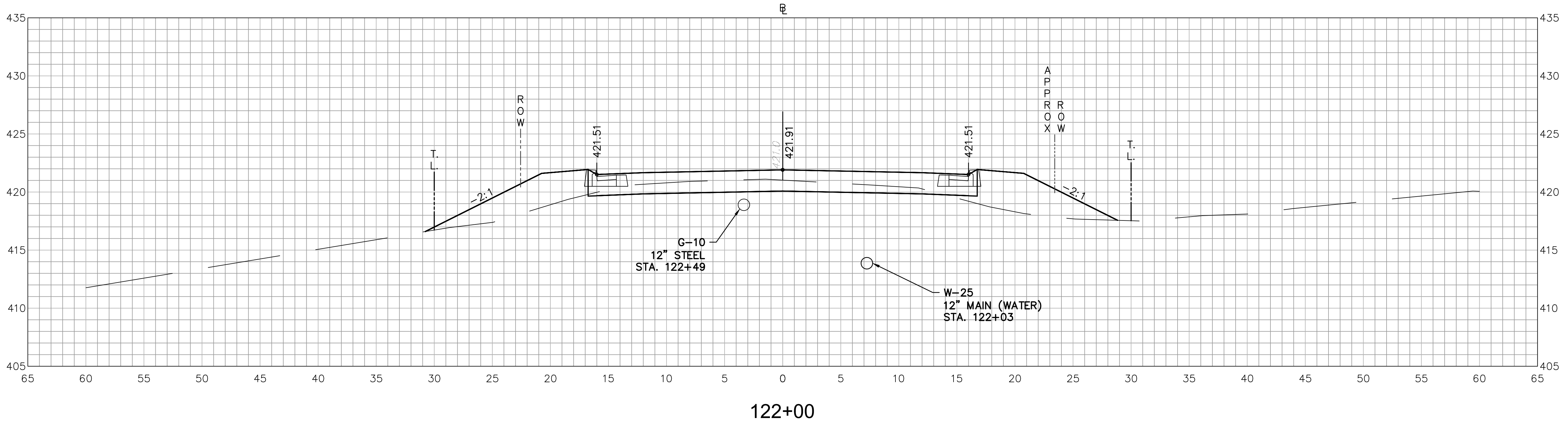
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS	No.	Date	Desc.

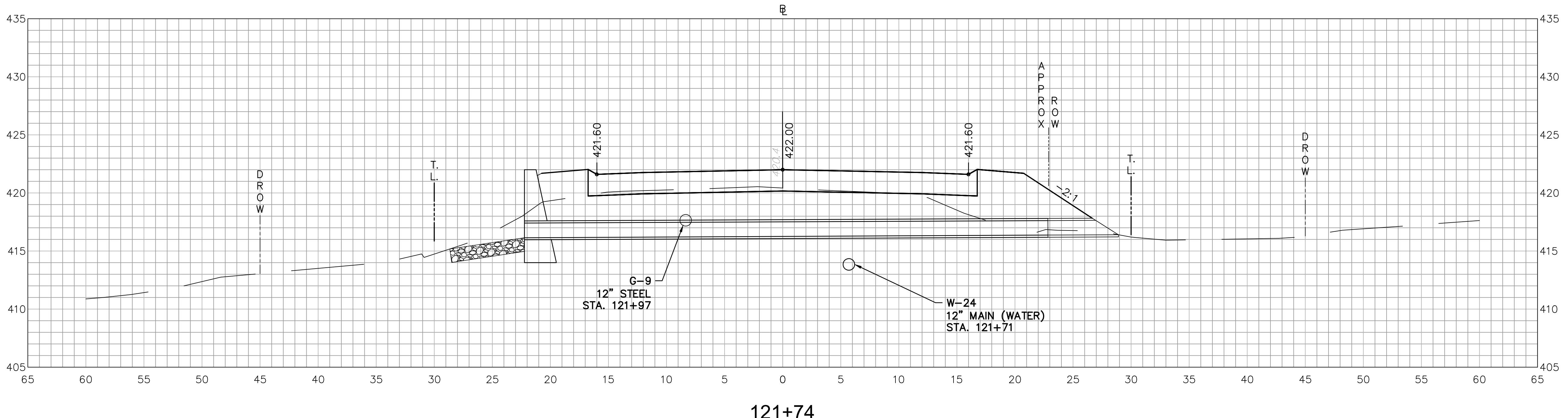
Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	1"=5'
Project No.	12C4326
Date	06/26/2019
CAD File:	TXSC12C432601

Title
CROSS-SECTION SHEET

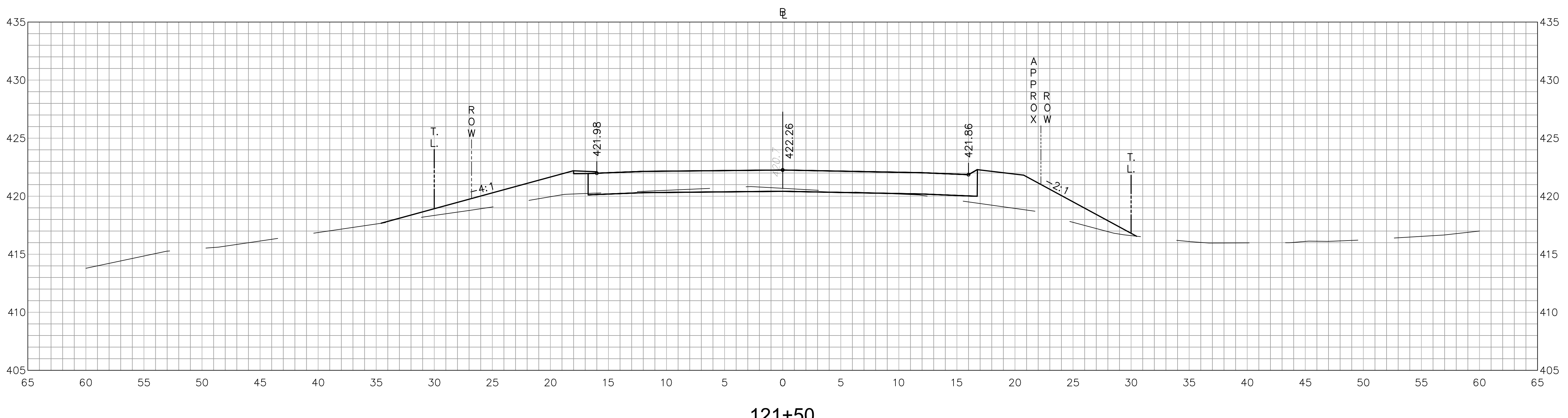
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XSC-12



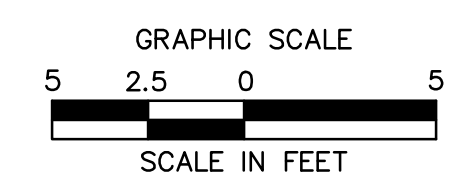
122+00



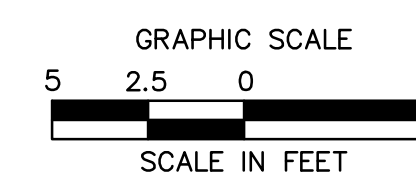
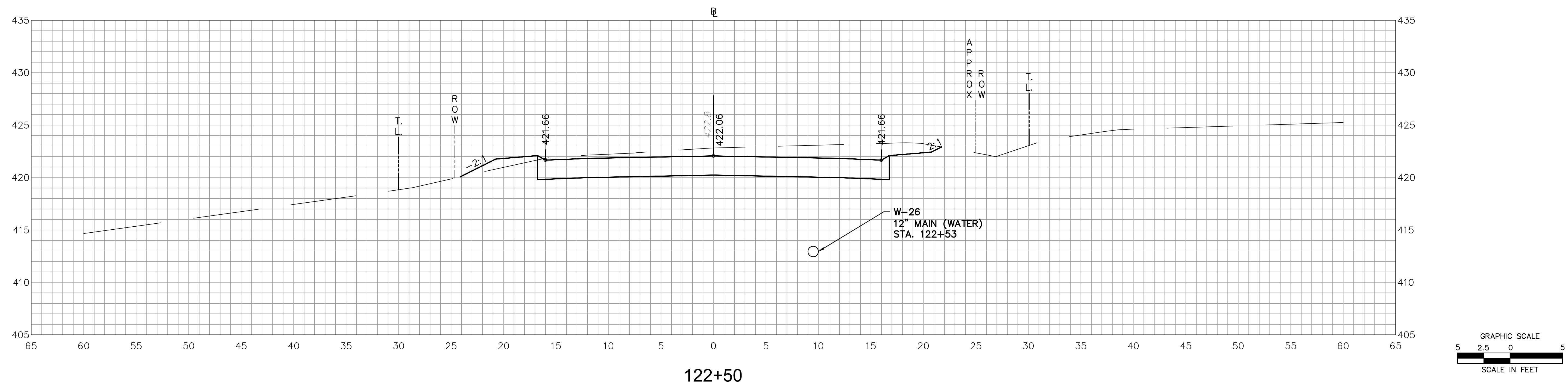
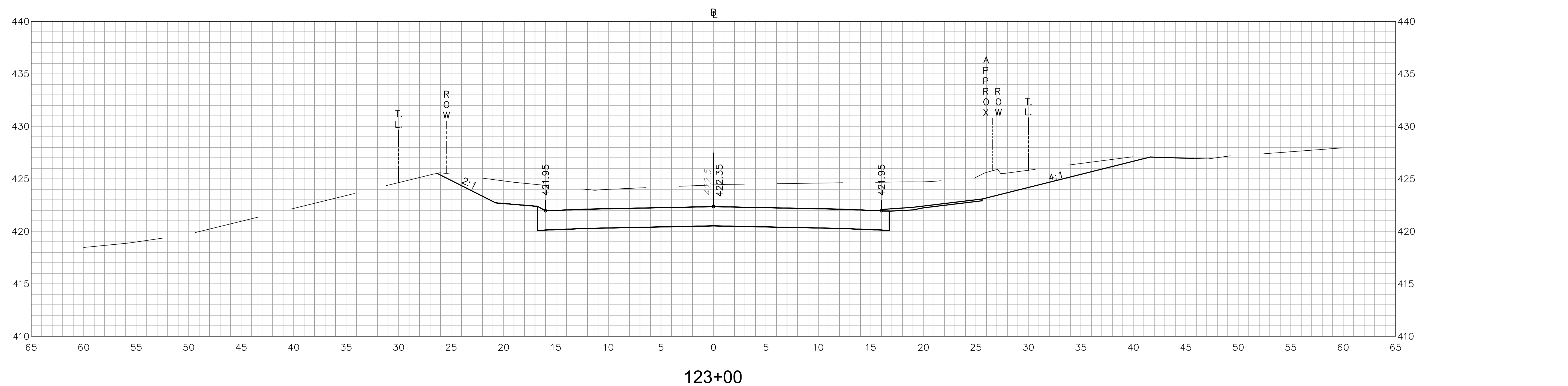
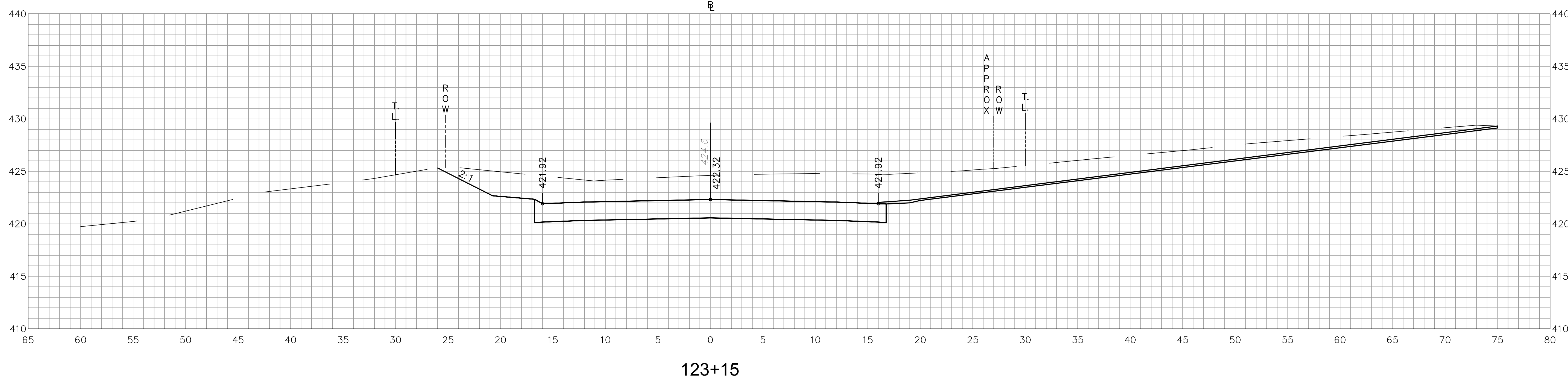
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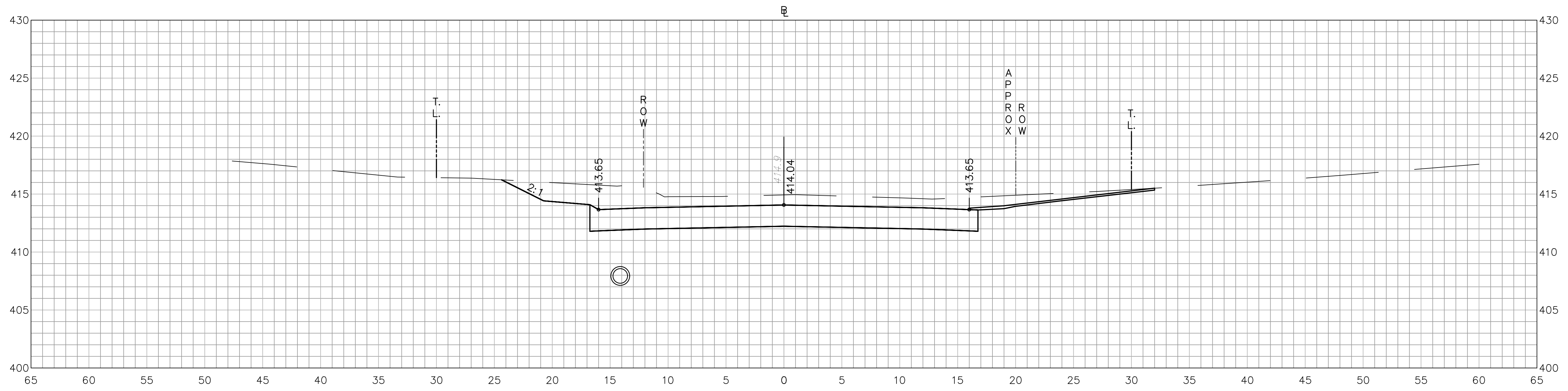
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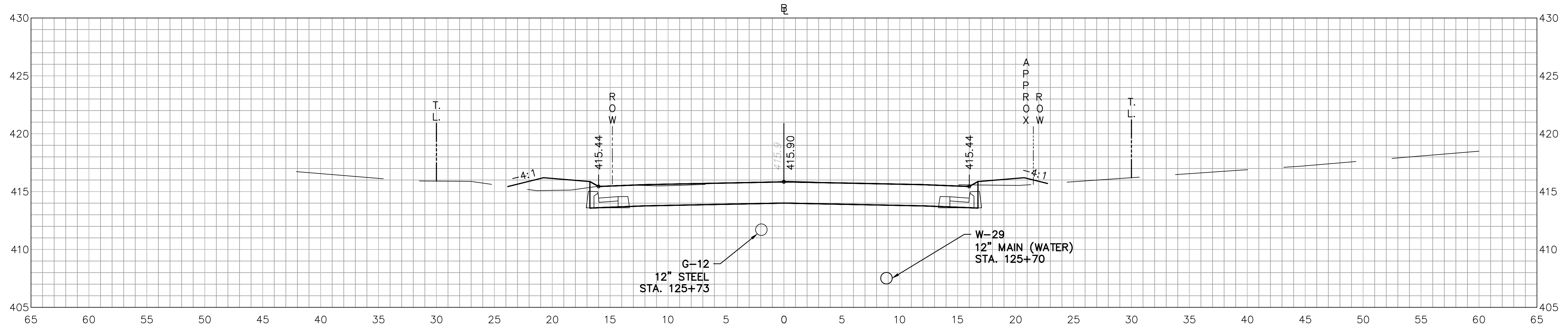
**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**



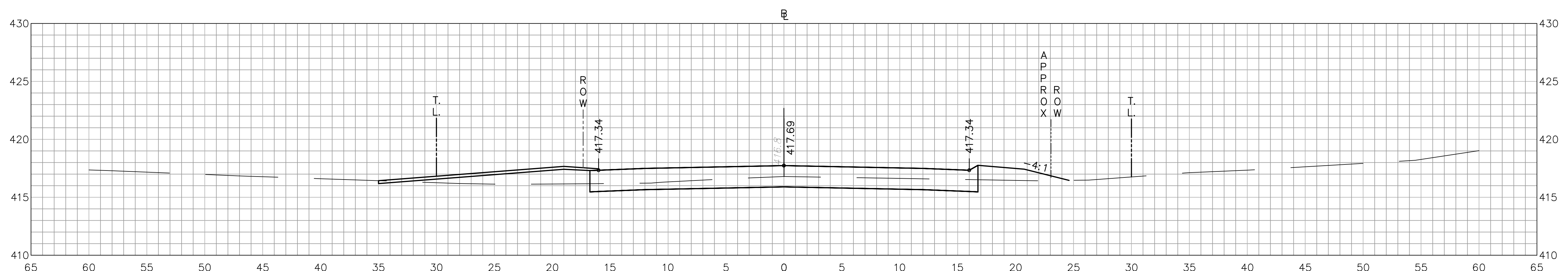
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT



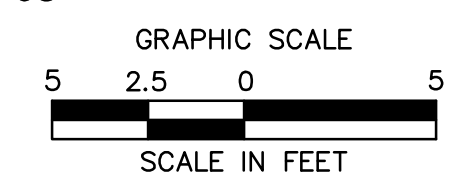
126+00



125+50



125+00

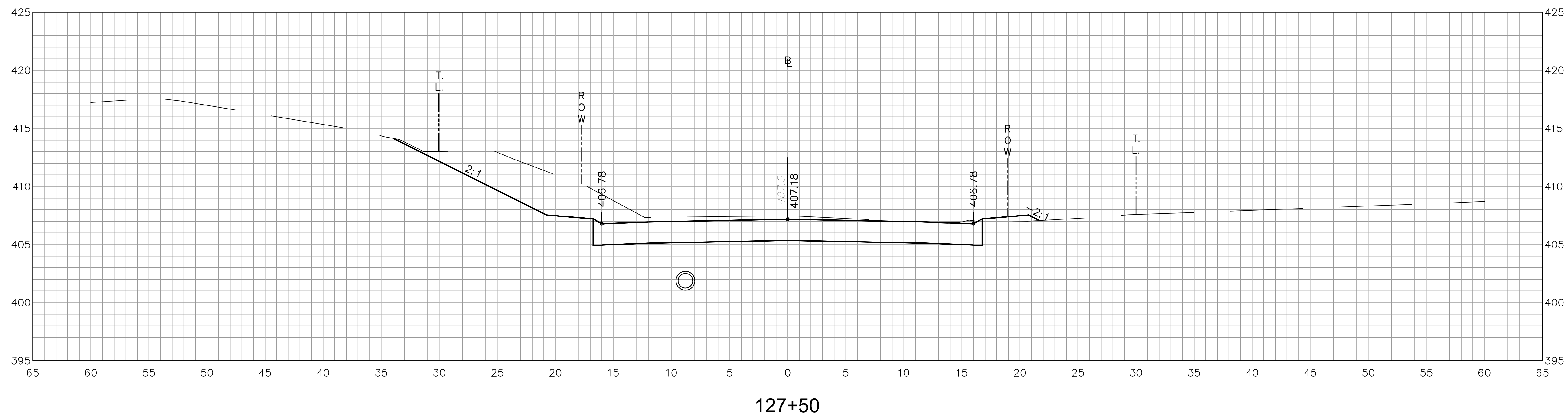


REVISIONS	Date	Desc.
No.		

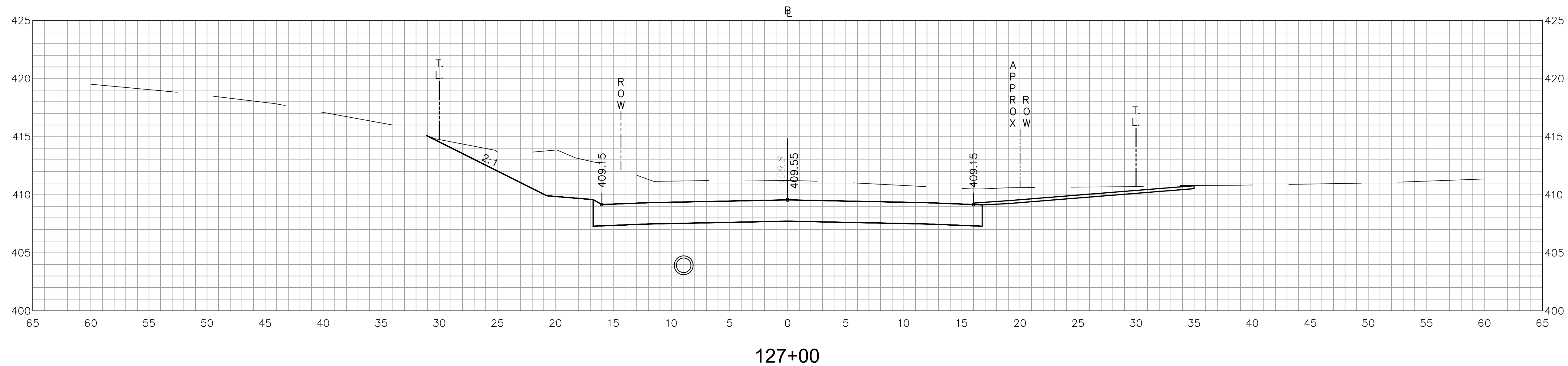
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Drawn	O.L.C.
Checked	B.J.P.
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Project No.	12C4326
Date	06/26/2019
CAD File:	TXSC12C432601
Title	CROSS-SECTION SHEET
Sheet No.	

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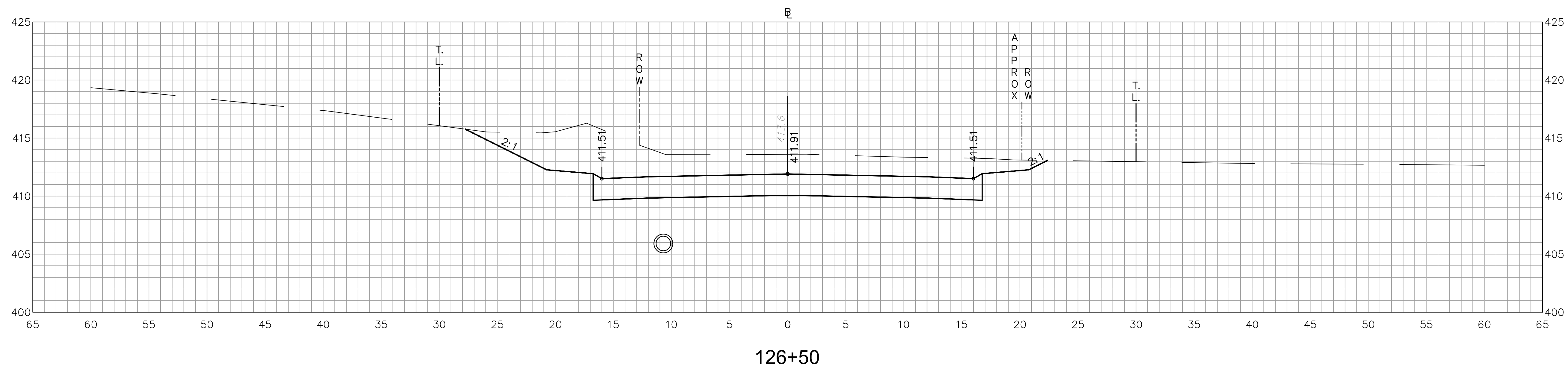
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT



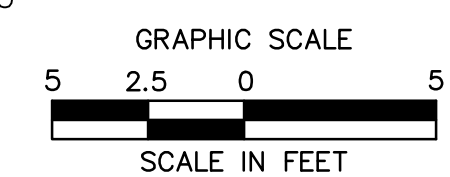
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127+00



126+50



REVISIONS	No.	Date	Desc.

Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	1"=5'
Project No.	12C4326
Date	06/26/2019
CAD File:	TXSC12C432601

Title
CROSS-SECTION SHEET

Sheet No.
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ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS
No. Date Desc.

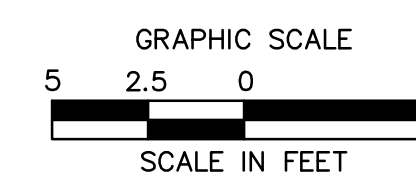
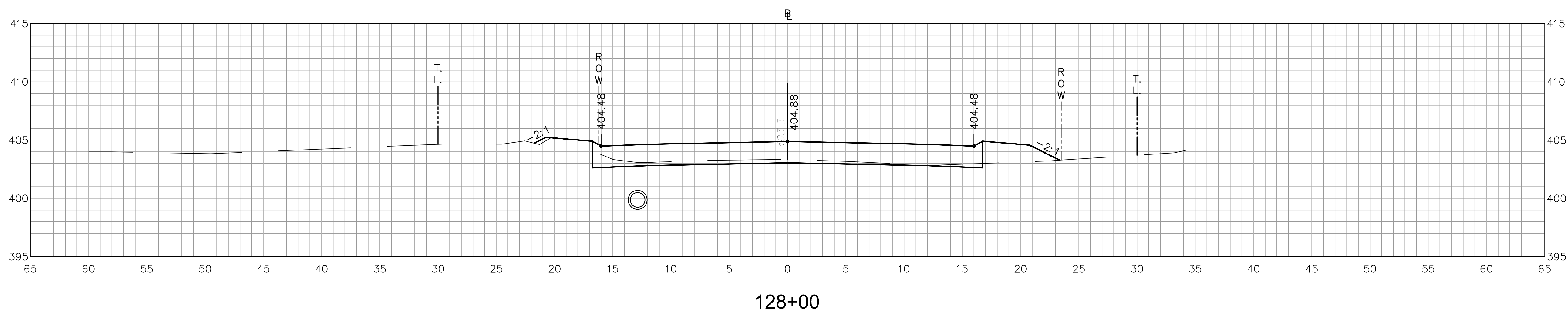
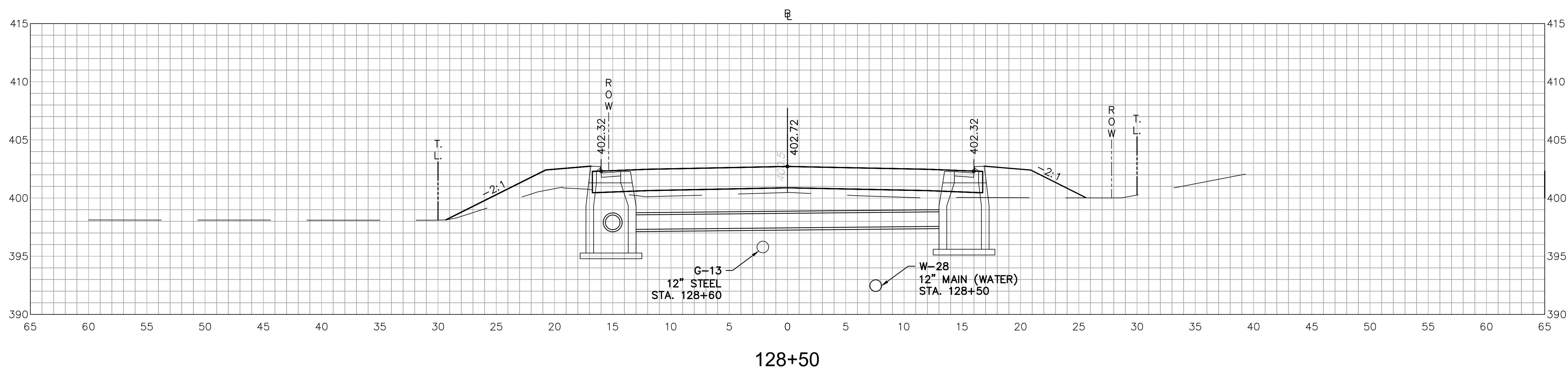
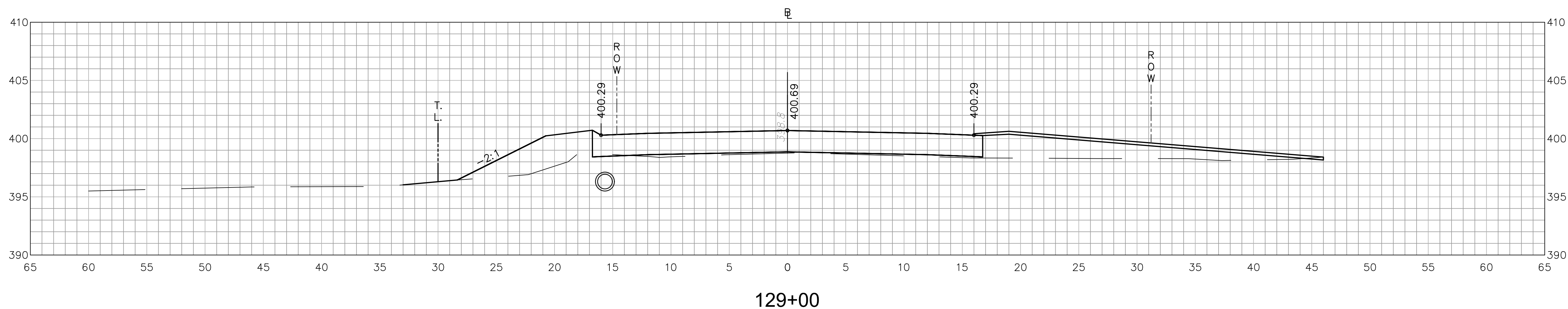
Designed O.L.C.
Drawn O.L.C.
Checked B.J.P.
Approved
Scale 1"=5'
Project No. 12C4326
Date 06/26/2019
CAD File: TXSC12C432601

Title
CROSS-SECTION SHEET

Sheet No.

XSC-17

Xref (s) : BDT2C432601 ; XR12C432603



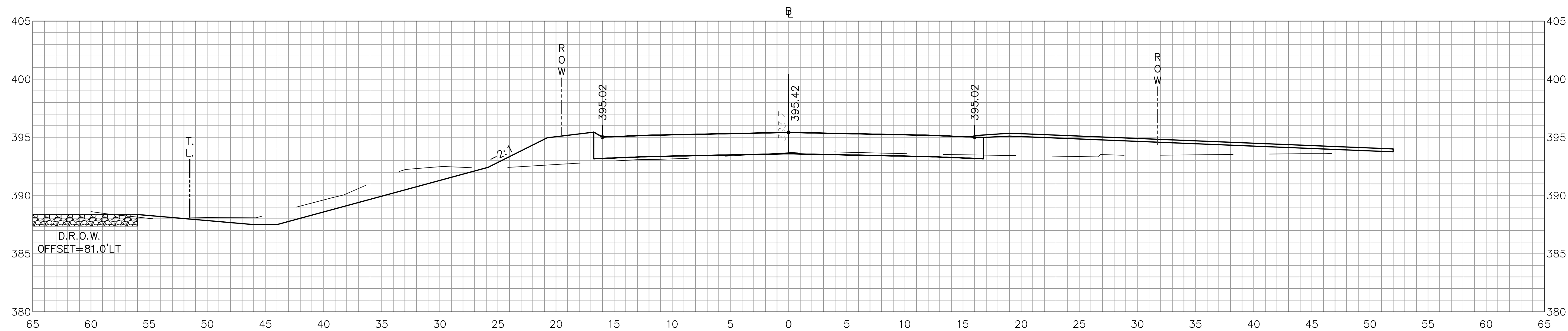
**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

REVISIONS	No.	Date	Desc.

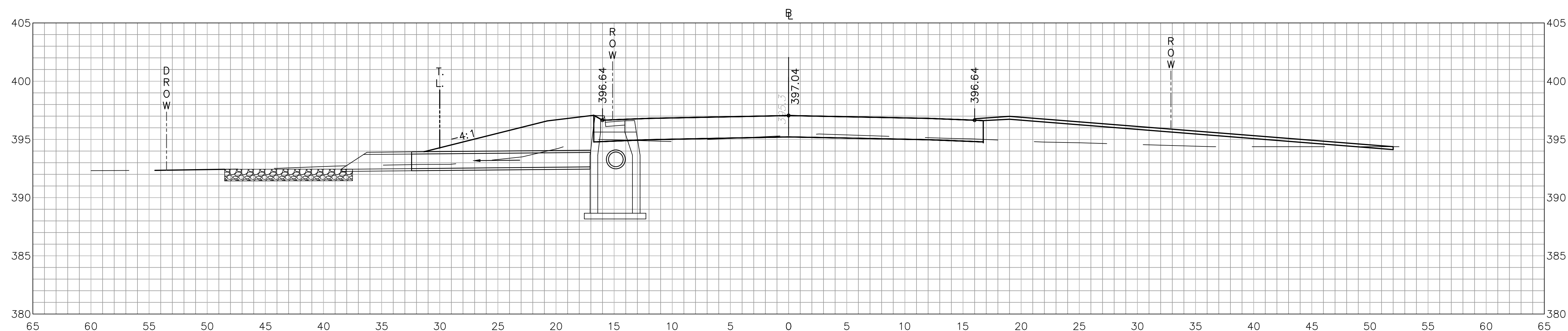
Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
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Project No.	12C4326
Date	06/26/2019
CAD File:	TXSC12C432601

Title: **CROSS-SECTION SHEET**

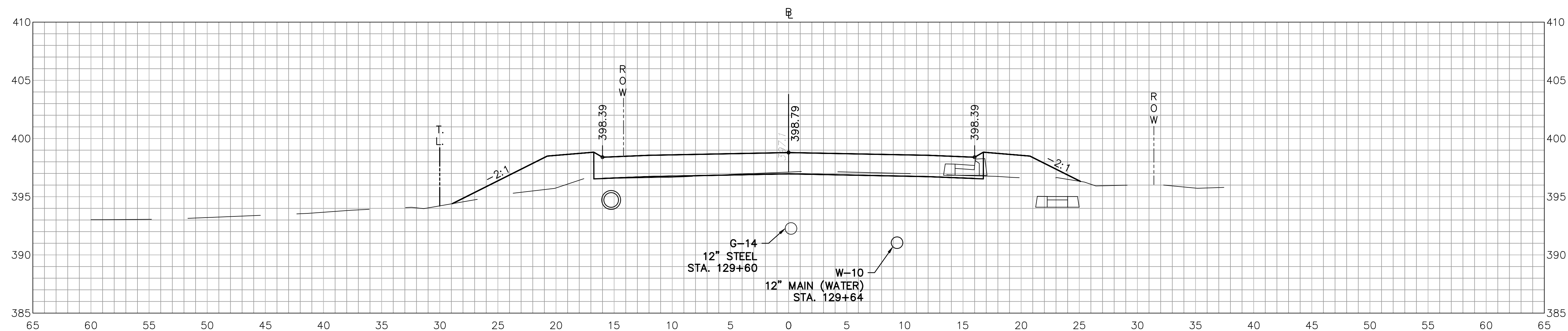
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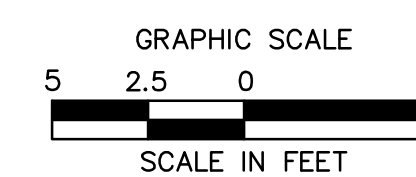
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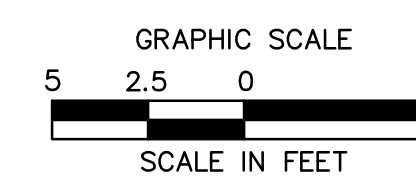
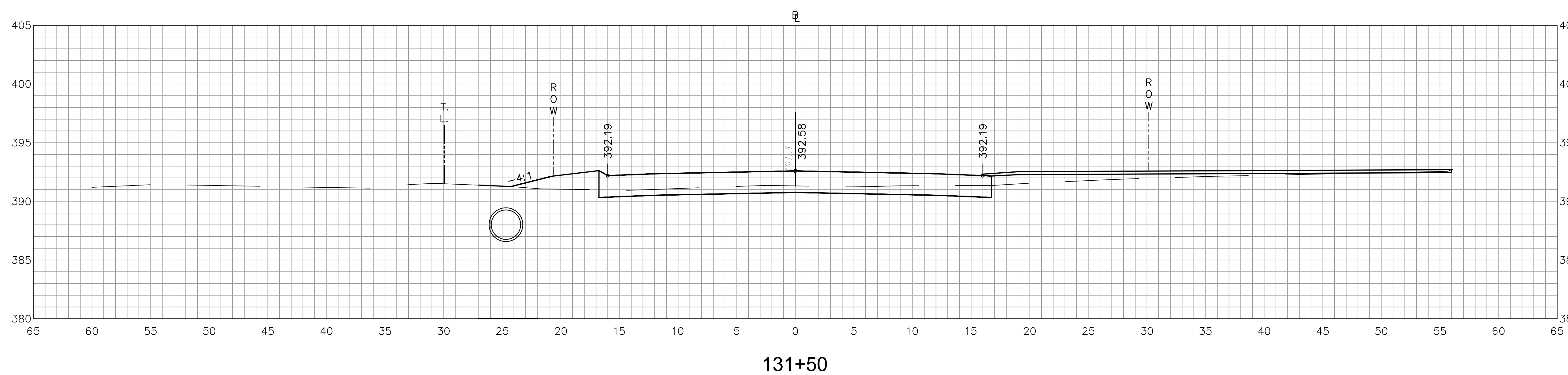
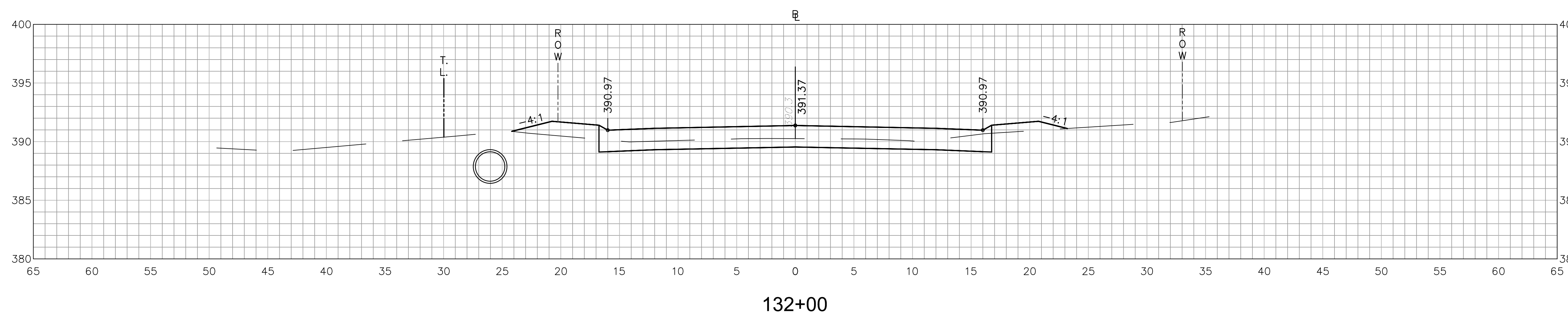
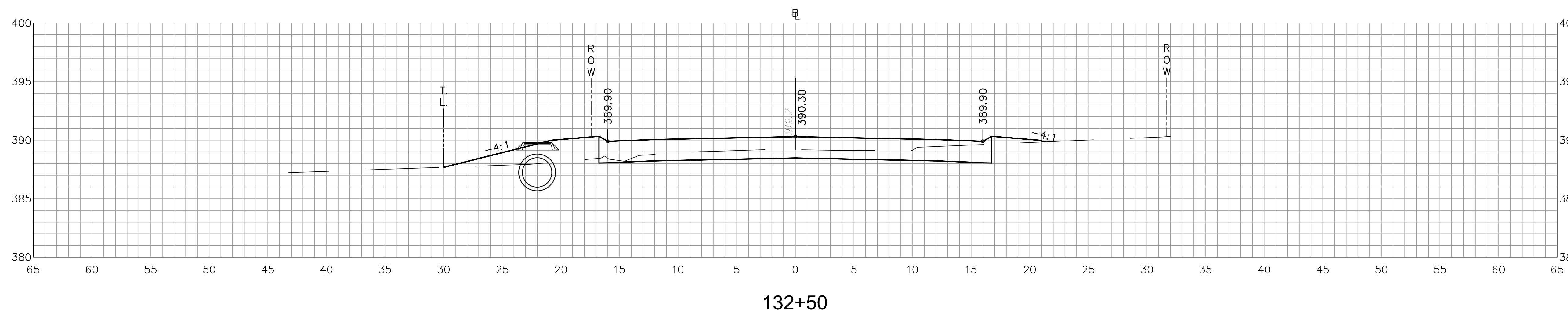
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129+50



ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT



REVISIONS	Desc.
No.	Date

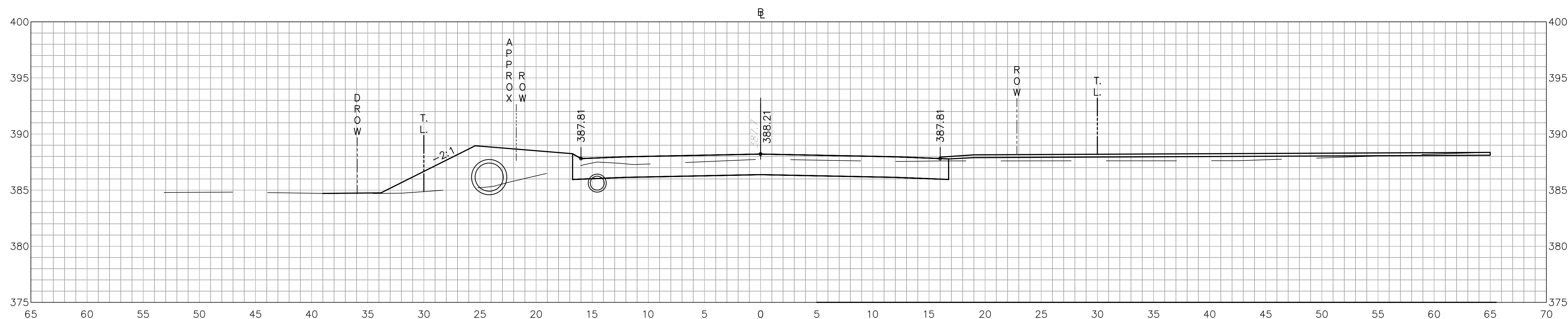
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 Checked: B.J.P.
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 Project No.: 12C4326
 Date: 06/26/2019
 CAD File: TXSC12C432601

Title: CROSS-SECTION SHEET

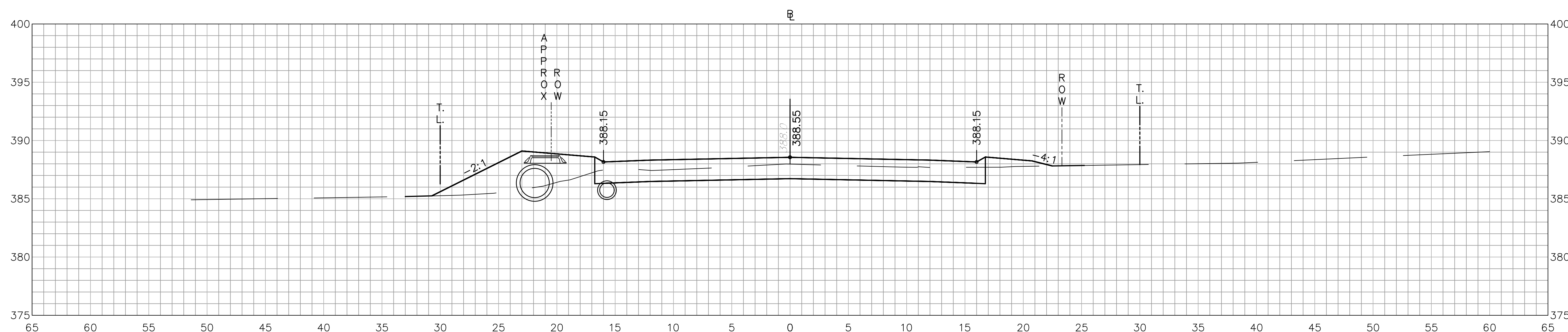
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XSC-20

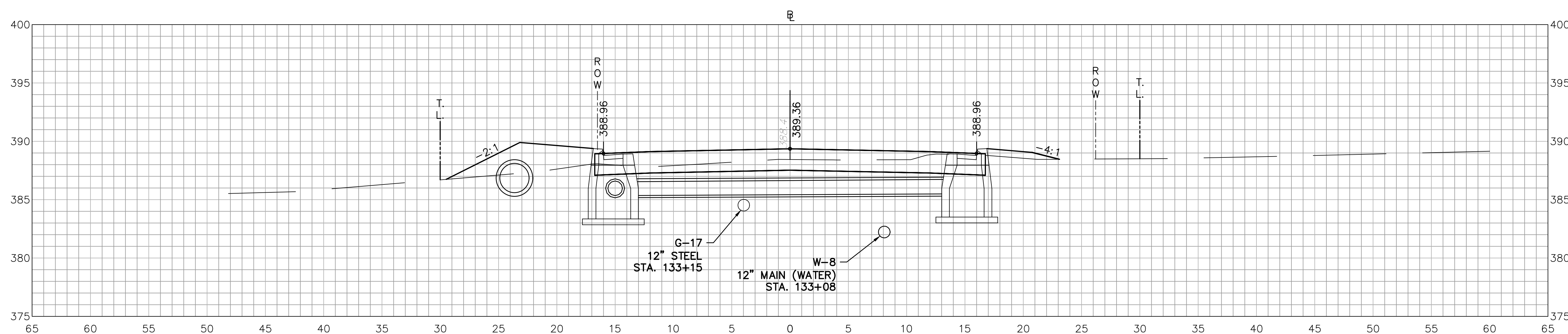
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT



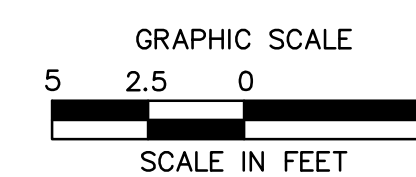
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133+50



133+00



REVISIONS	No.	Date	Desc.

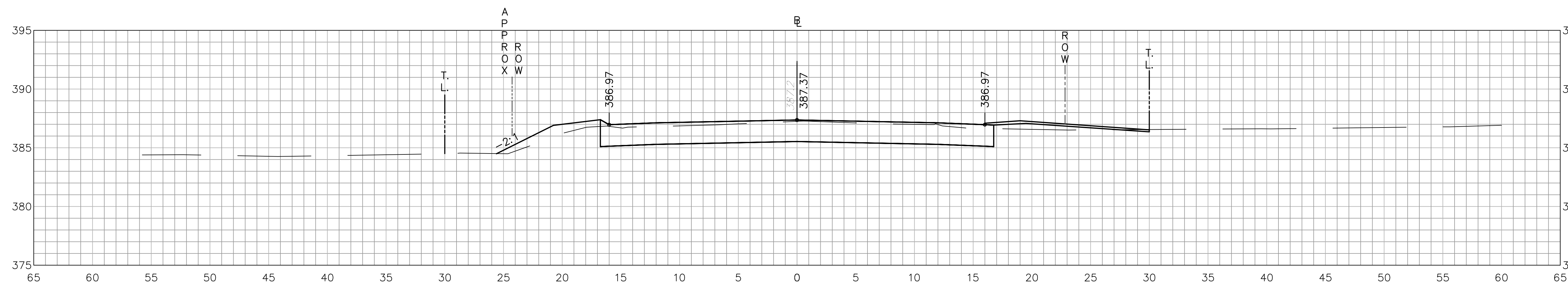
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Date	06/26/2019
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Title
CROSS-SECTION SHEET

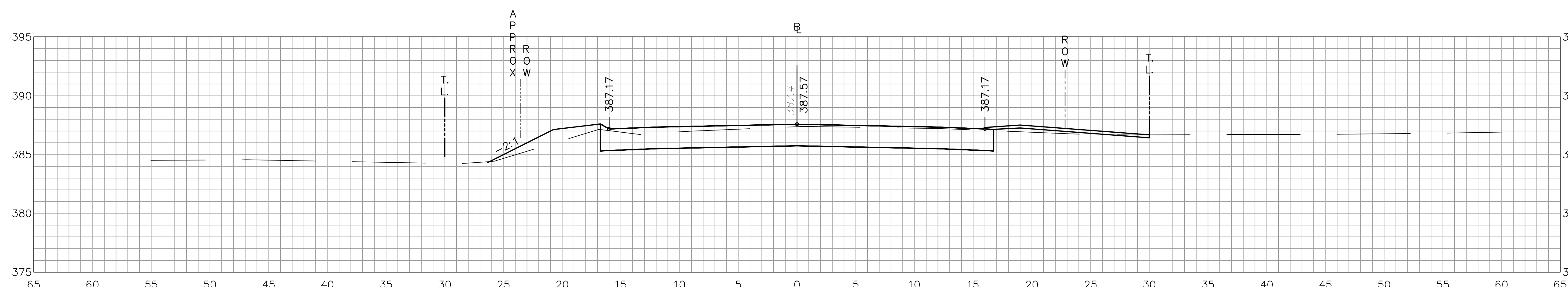
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XSC-21

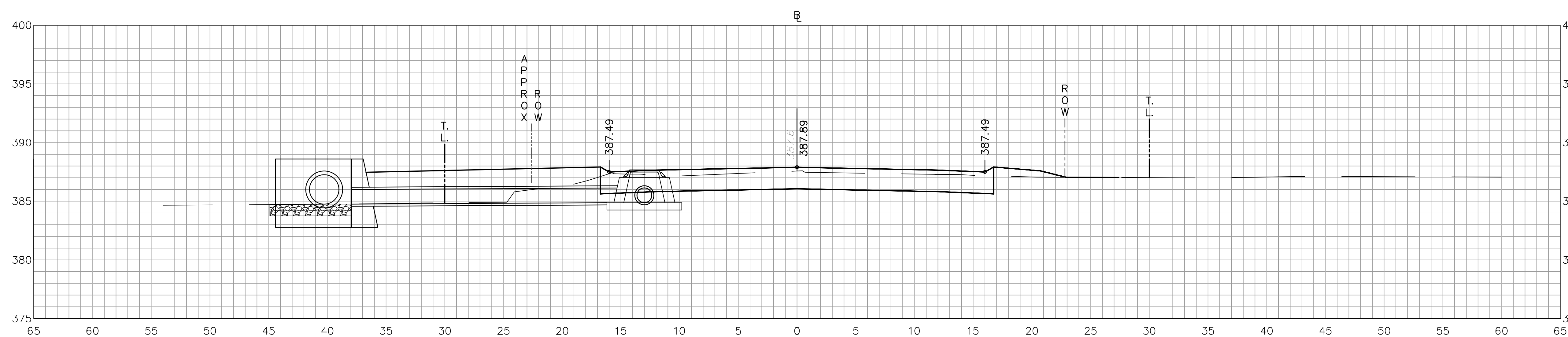
**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**



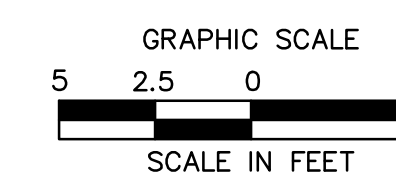
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134+29



134+00



No.	Date	Desc.

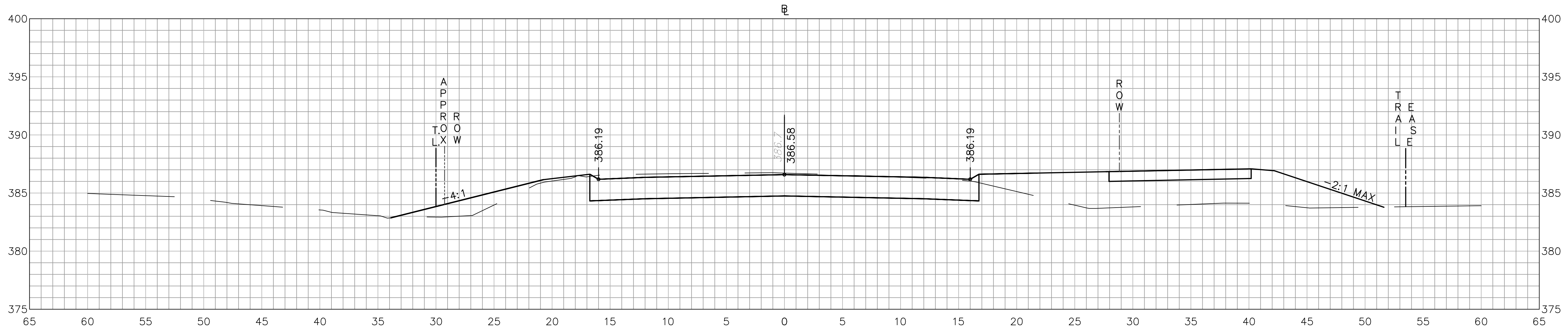
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Project No. 12C4326
Date 06/26/2019
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Title
CROSS-SECTION SHEET

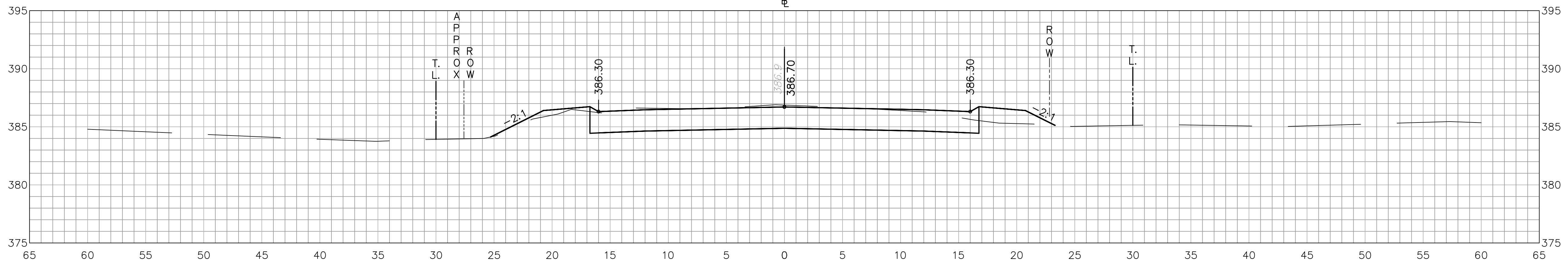
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XSC-22

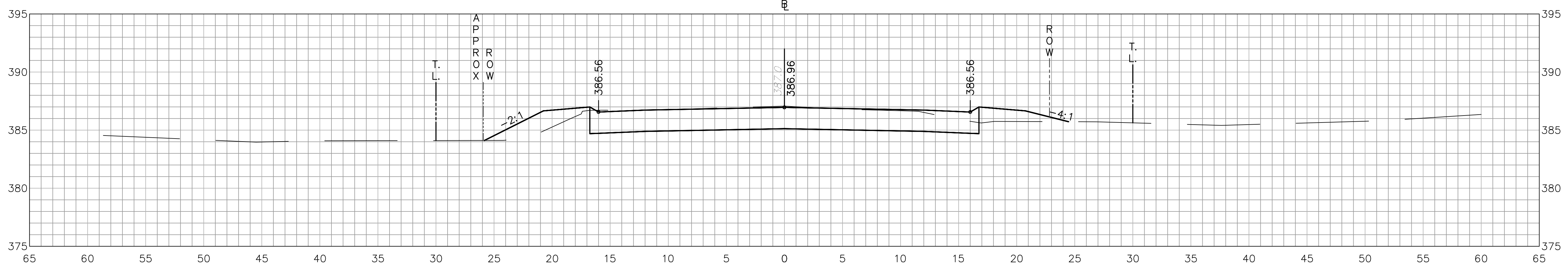
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT



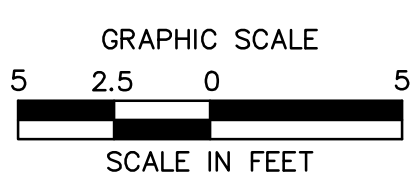
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135+50



135+00



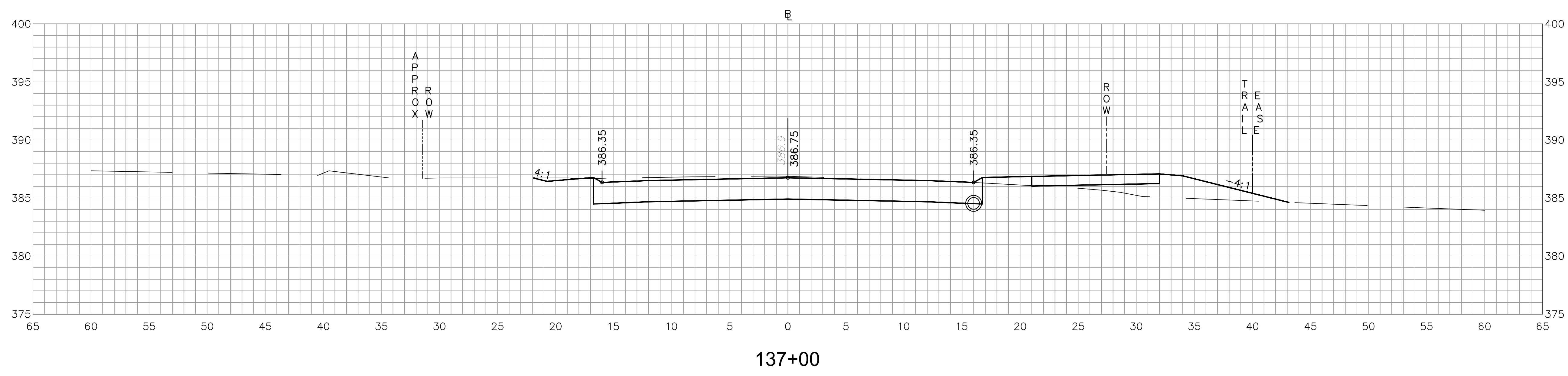
REVISIONS	No.	Date	Desc.
Designed			O.L.C.
Drawn			O.L.C.
Checked			B.J.P.
Approved			
Scale			1"=5'
Project No.			12C4326
Date			06/26/2019
CAD File:			TXSC12C432601
Title			CROSS-SECTION SHEET
Sheet No.			

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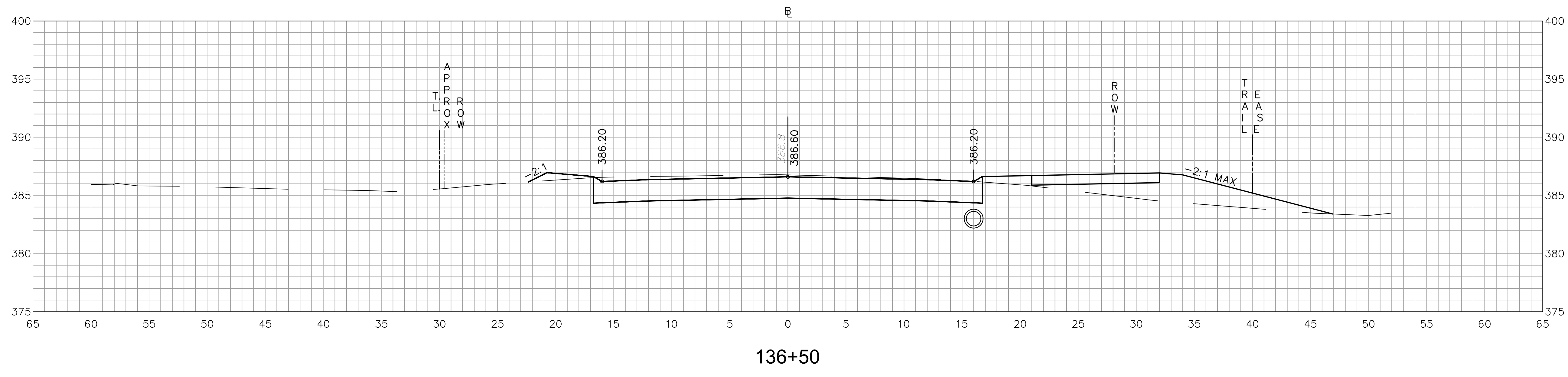
**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

REVISIONS	Date	Desc.
No.	Date	Desc.

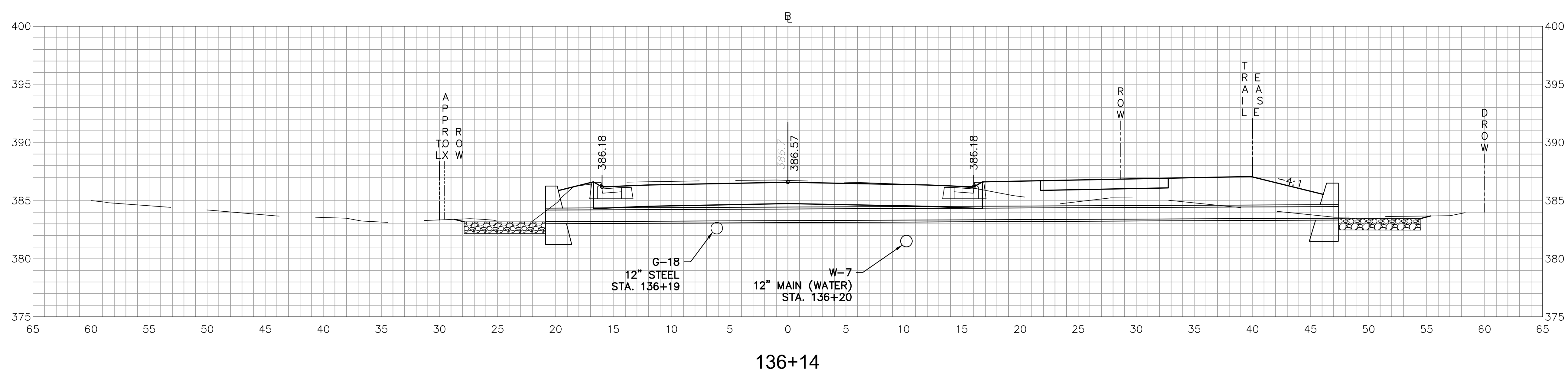
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Project No.	12C4326
Date	06/26/2019
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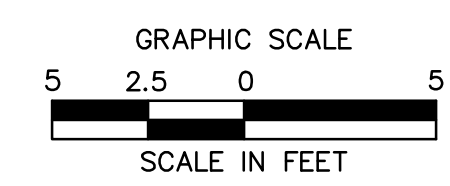
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136+50



136+14



ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS
No. Date Desc.

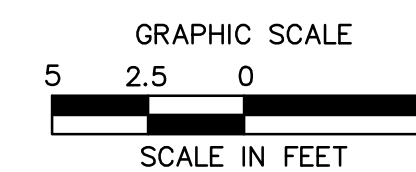
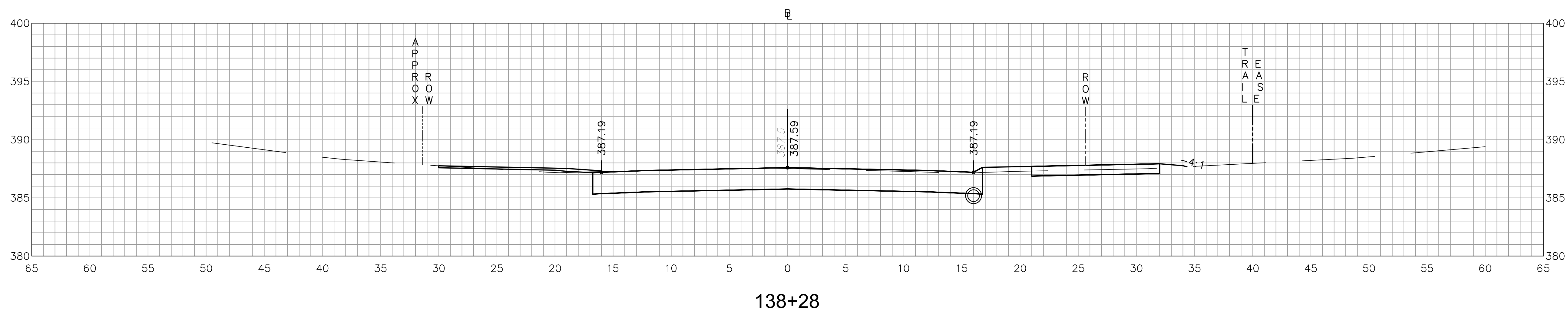
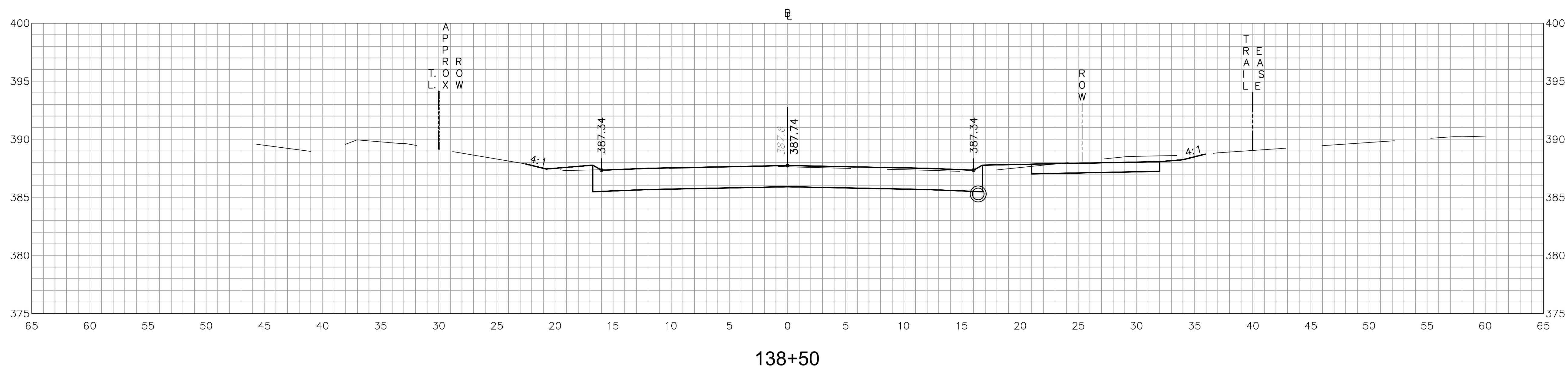
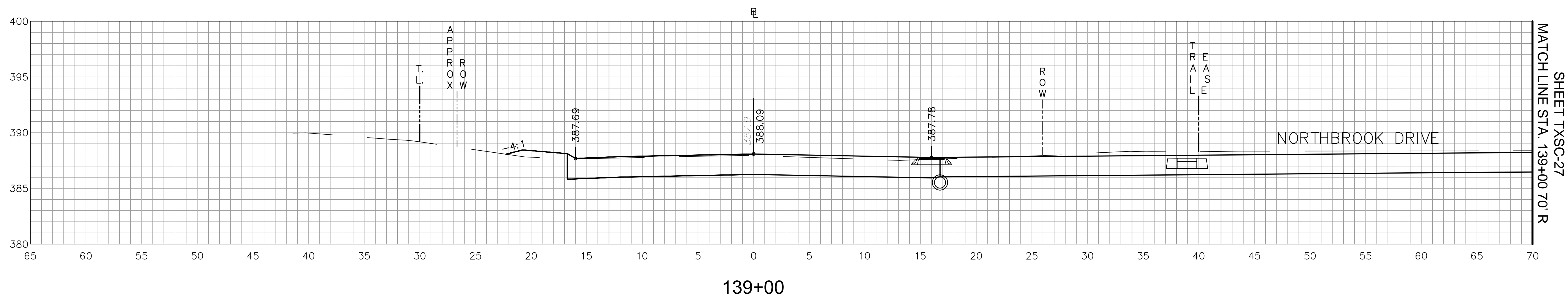
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Date 06/26/2019
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Title
CROSS-SECTION SHEET

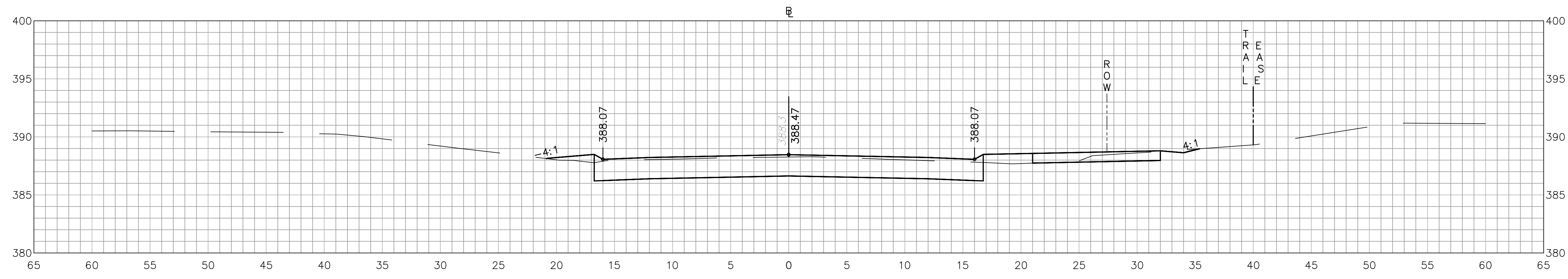
Sheet No.

XSC-26

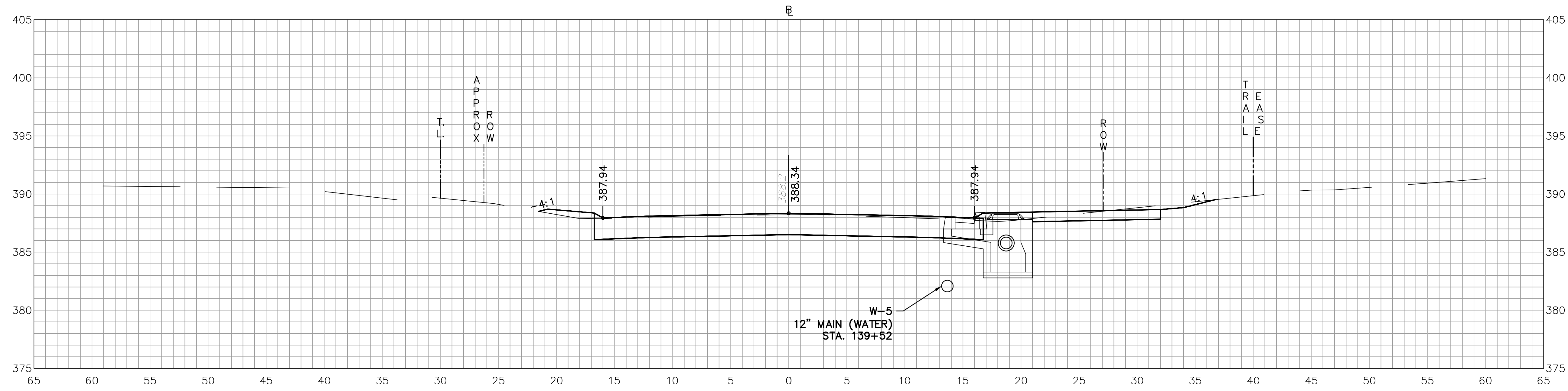
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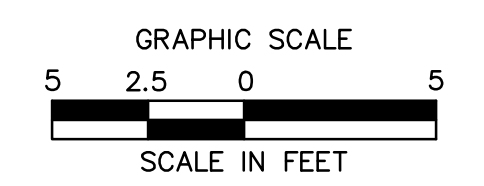
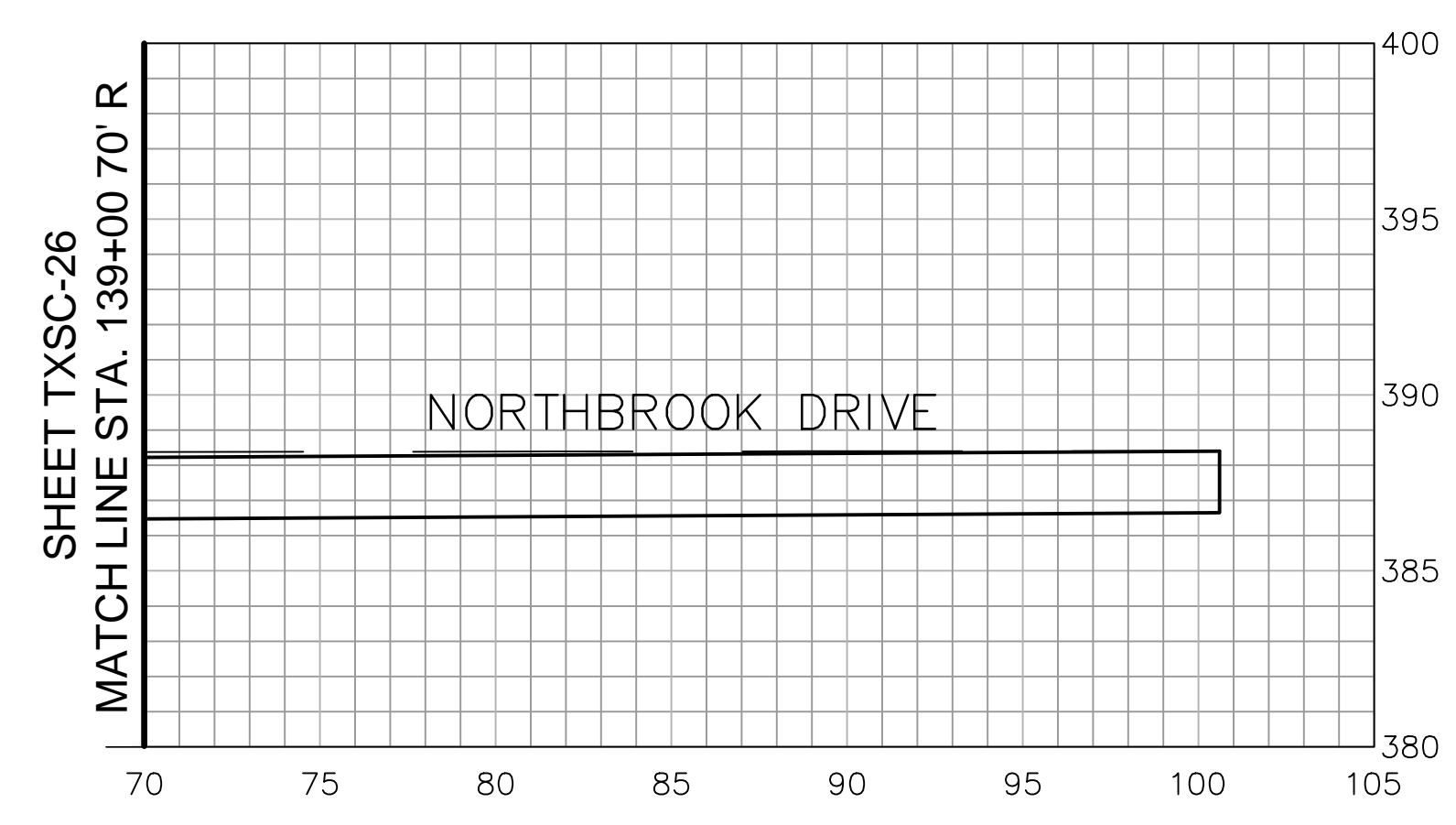
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT



140+00



139+50



REVISIONS	No.	Date	Desc.

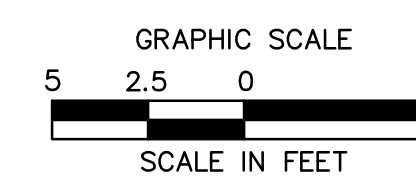
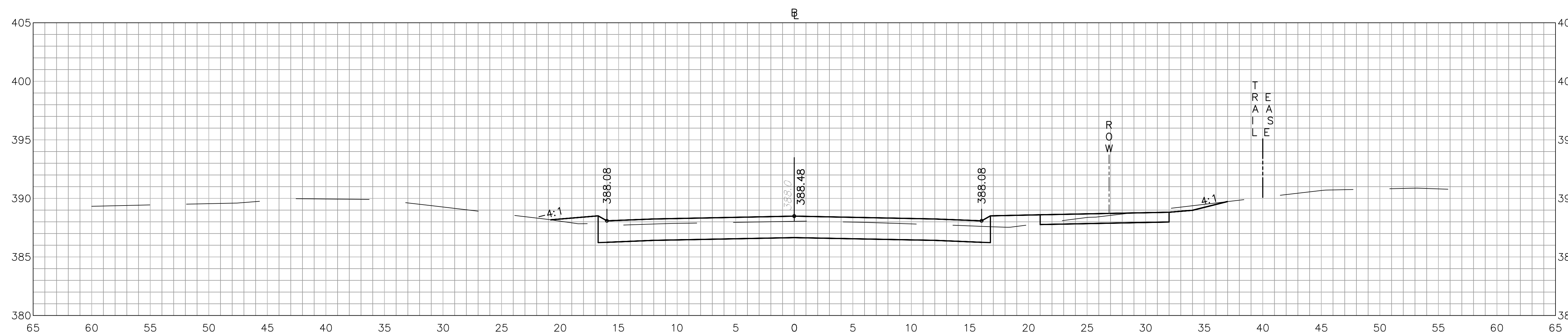
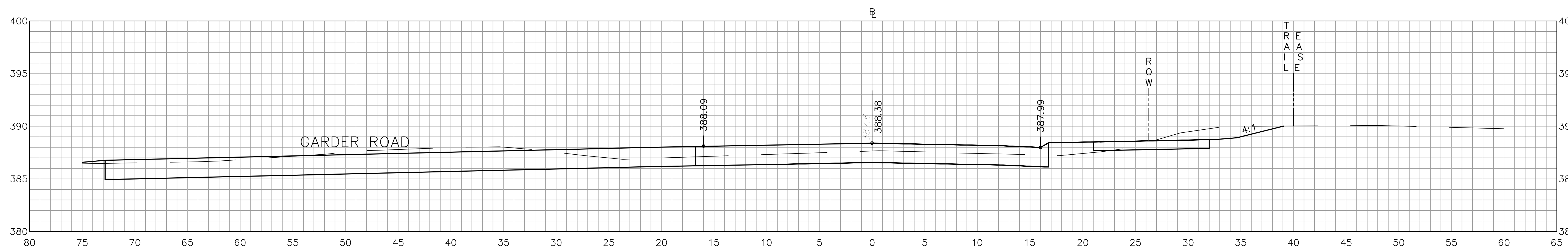
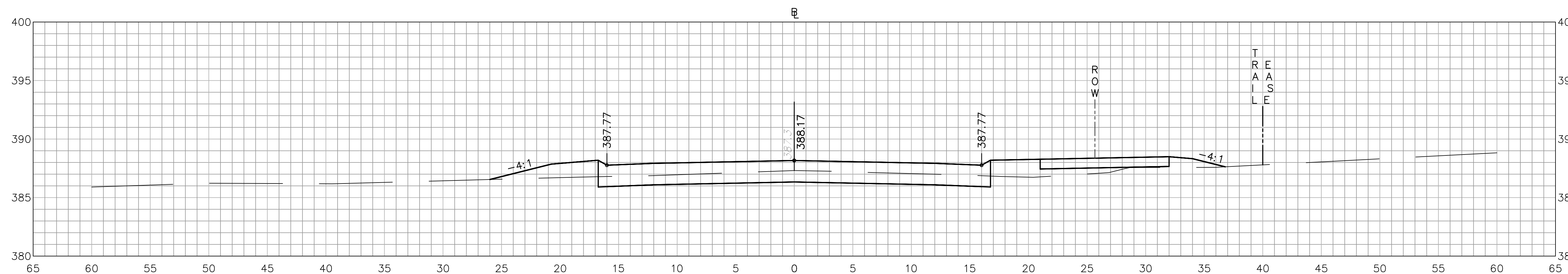
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Scale	1"=5'
Project No.	12C4326
Date	06/26/2019
CAD File:	TXSC12C432601

Title
CROSS-SECTION SHEET

Sheet No.

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ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT



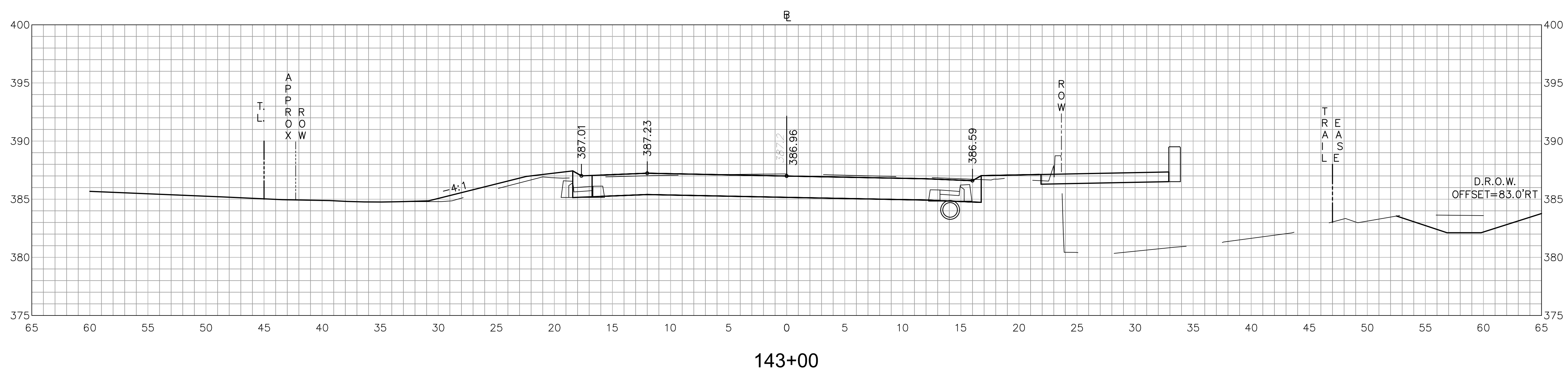
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No. Date Desc.
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Drawn O.L.C.
Checked B.J.P.
Approved
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Date 06/26/2019
CAD File: TXSC12C432601
Title CROSS-SECTION SHEET
Sheet No.

XSC-28

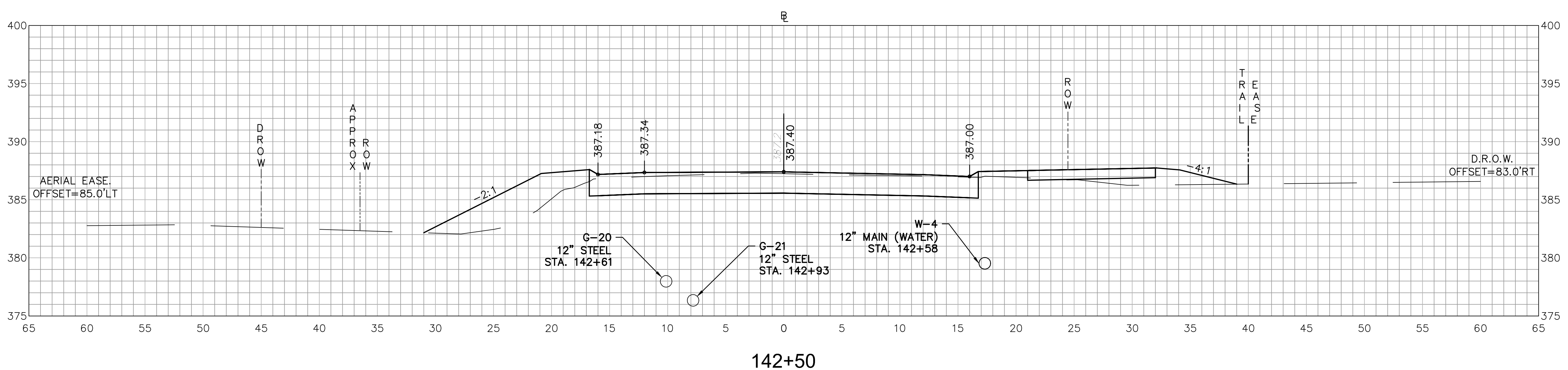
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

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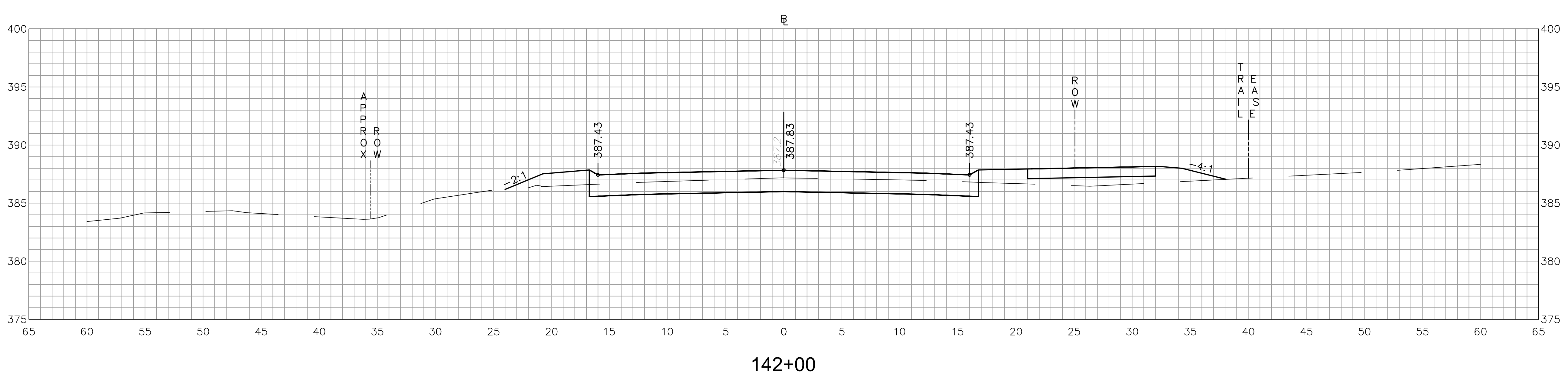
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Date	06/26/2019
CAD File:	TXSC12C432601
Title	CROSS-SECTION SHEET
Sheet No.	XSC-29



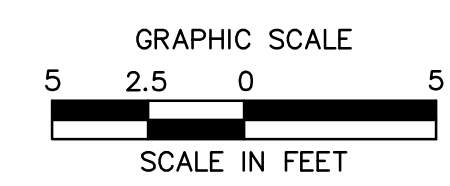
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142+00



ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

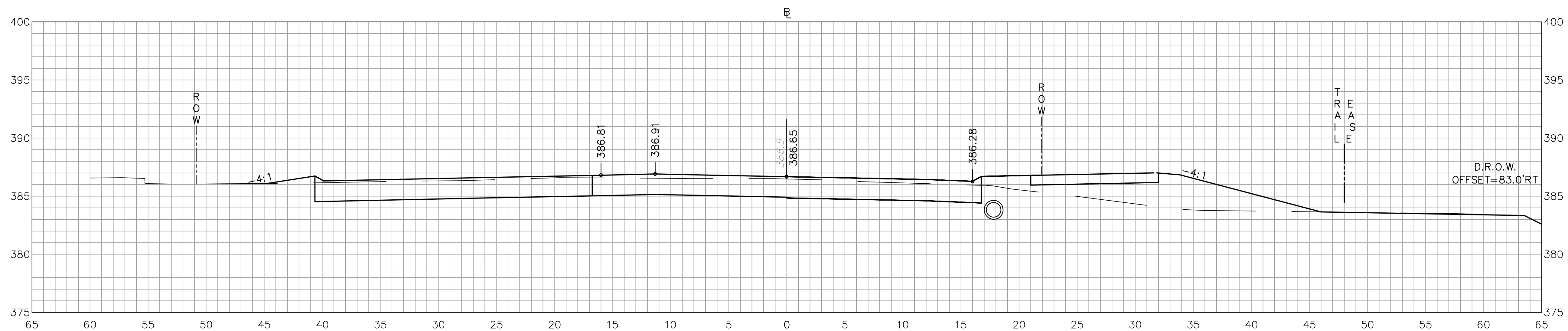
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Date	06/26/2019
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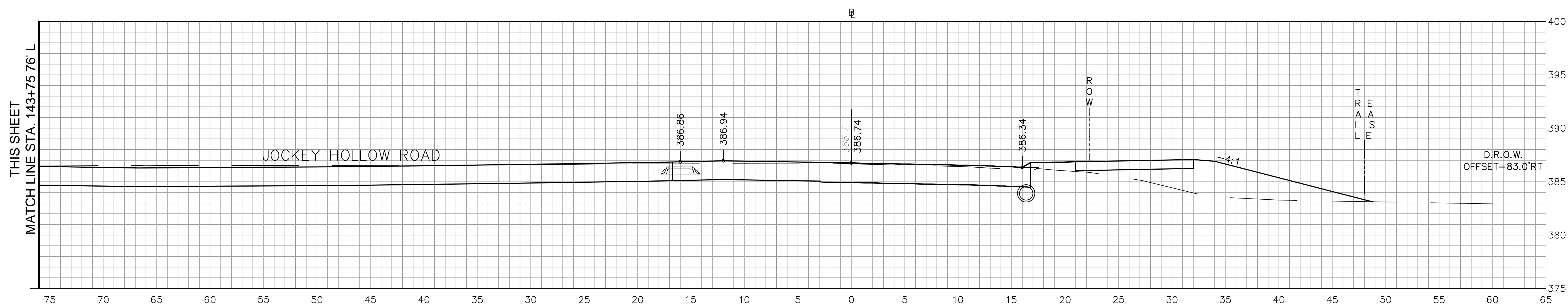
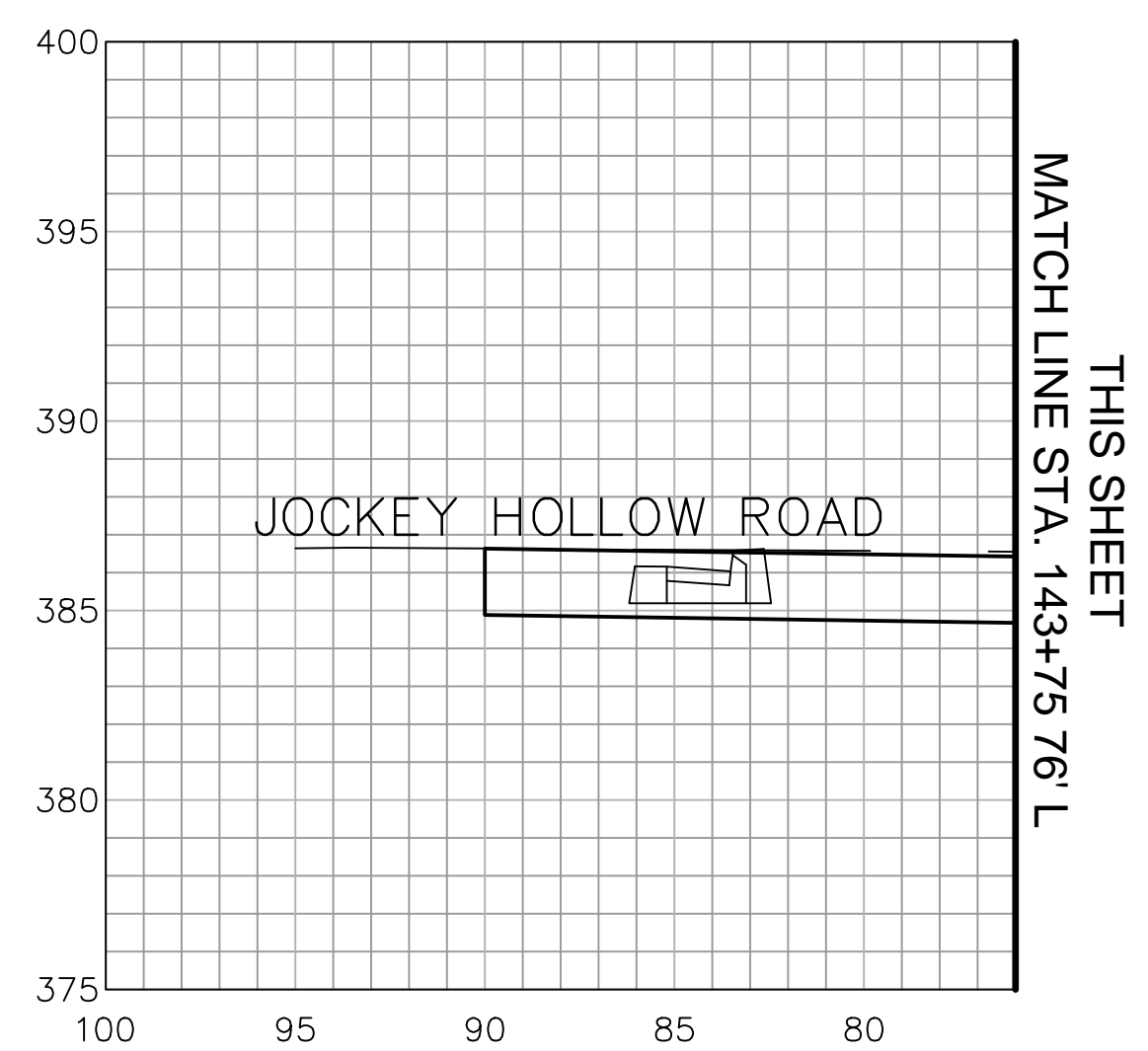
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Sheet No.

XSC-30



143+50



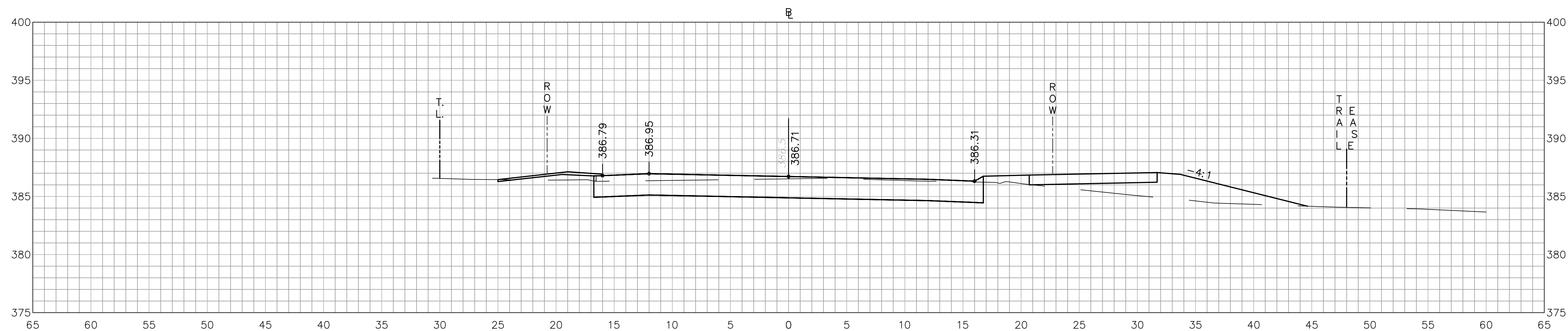
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**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

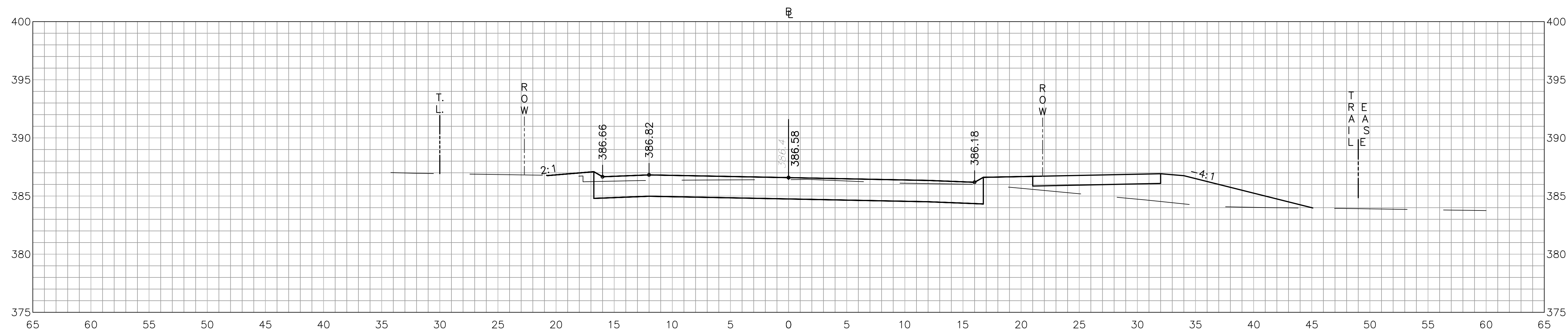
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Date	06/26/2019
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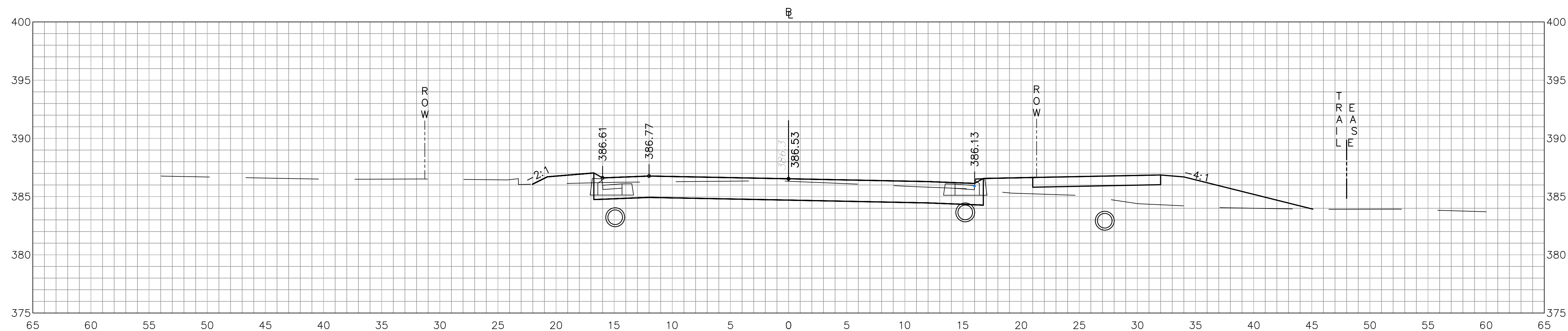
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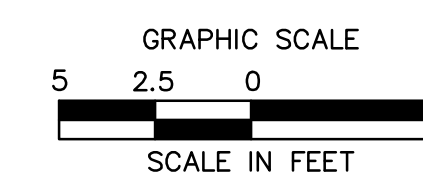
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144+00



ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

Revisions	Date	Desc.
No.	Date	Desc.

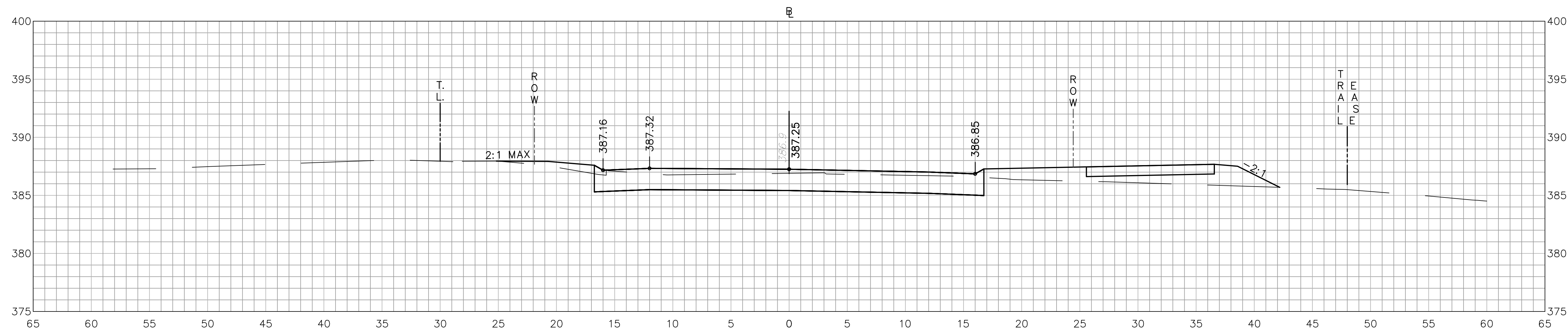
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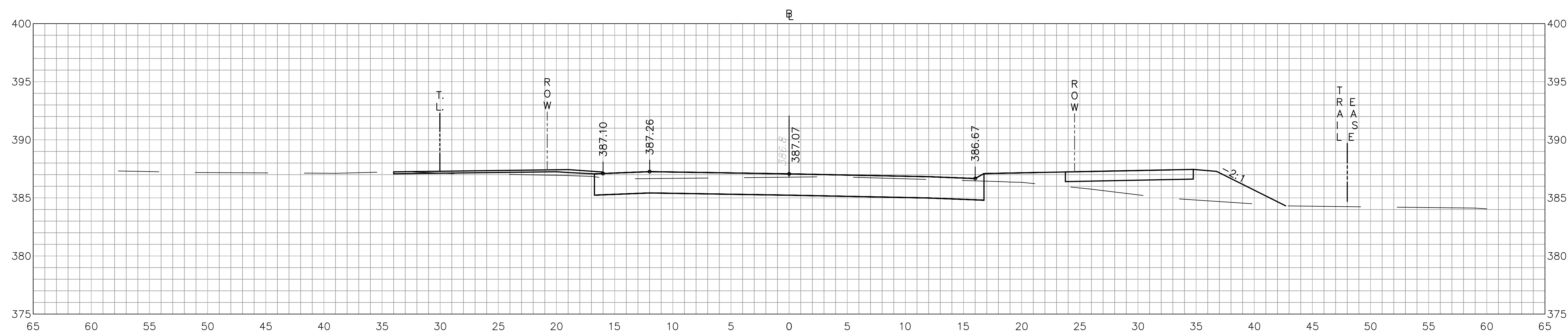
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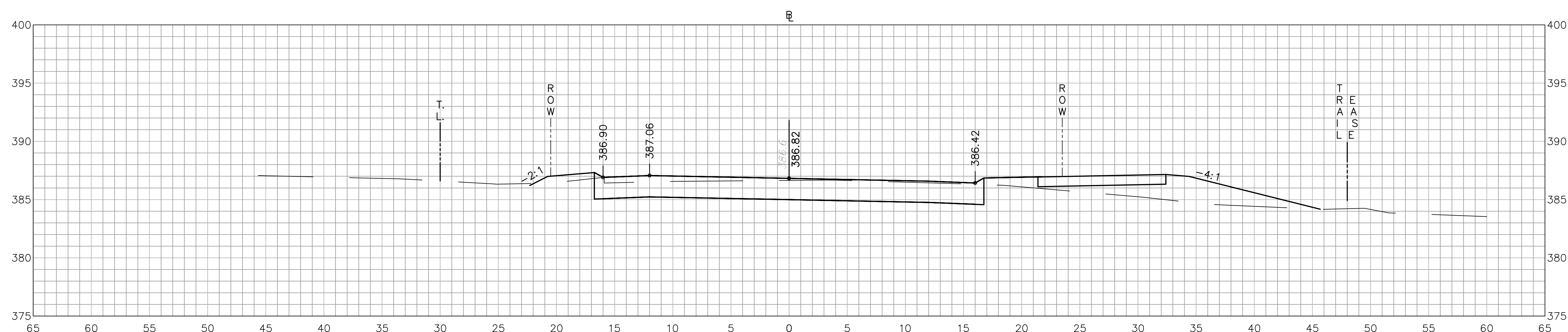
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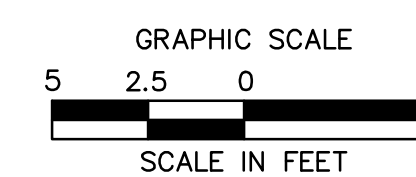
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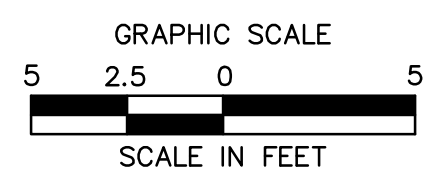
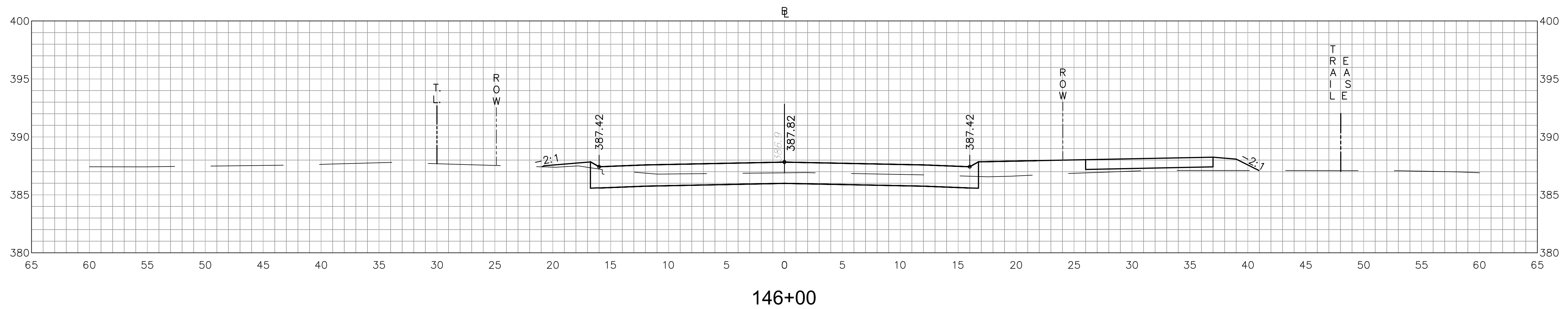
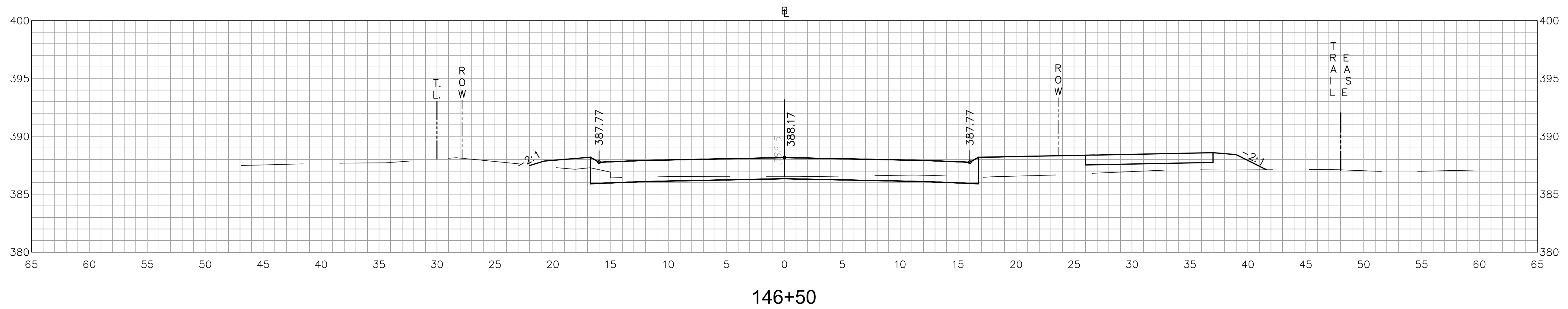
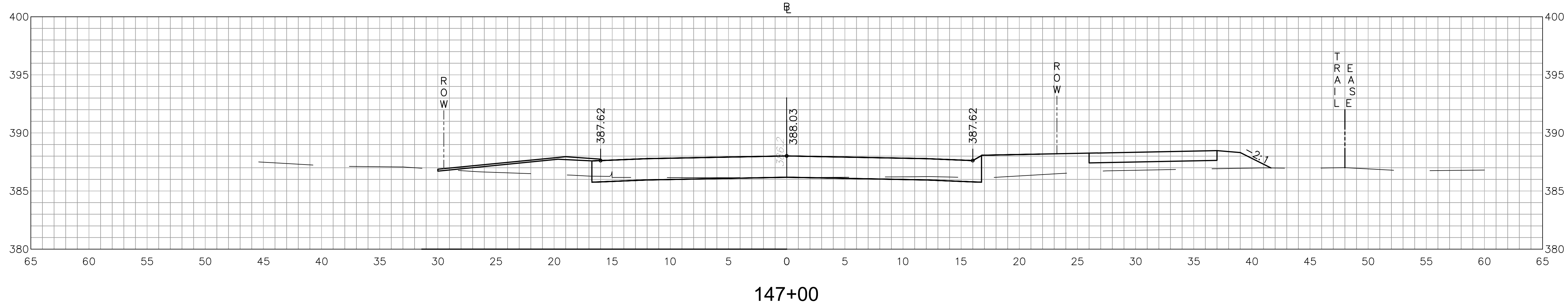
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145+00



**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**



Revisions	Date	Desc.
No.	Date	Desc.

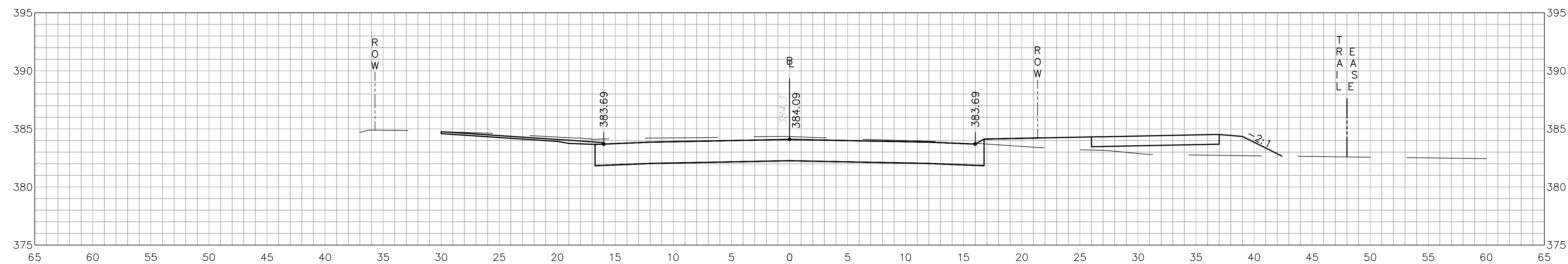
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Title
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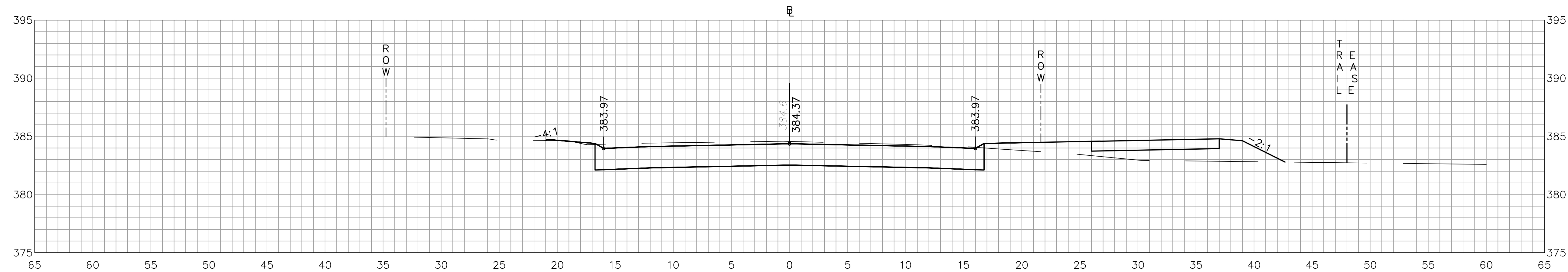
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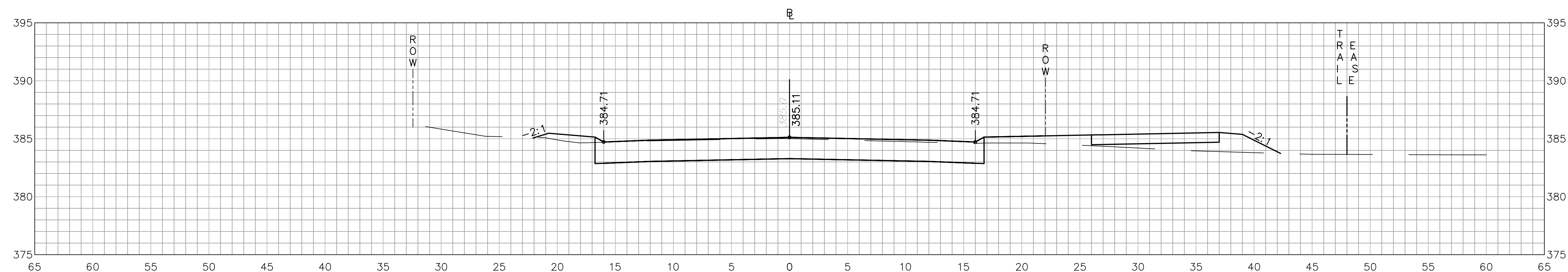
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT



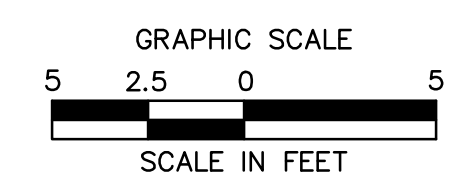
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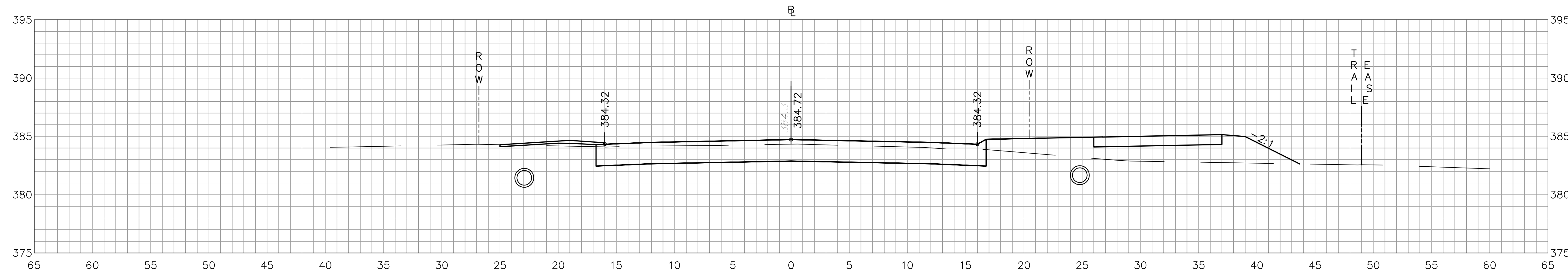
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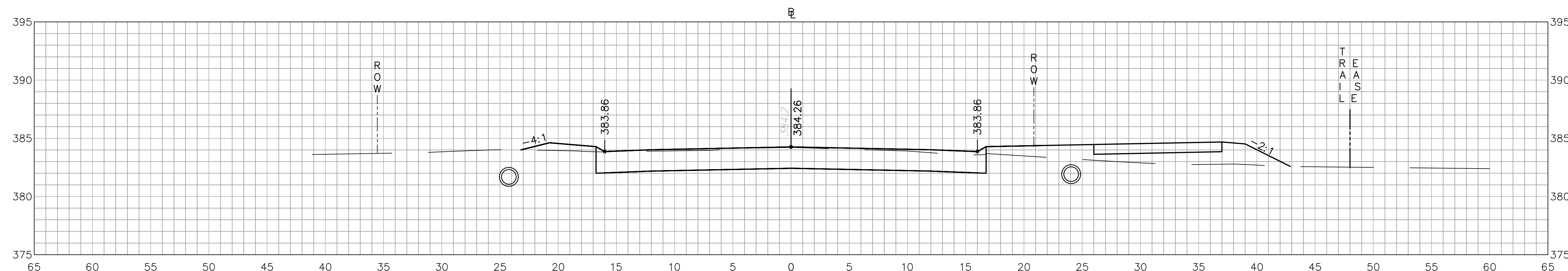
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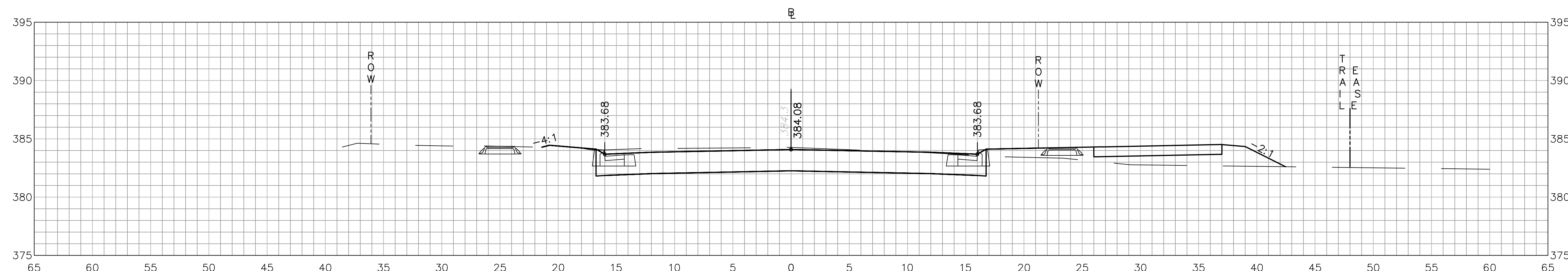
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT



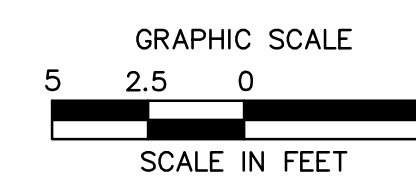
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No. Date Desc.

Designed O.L.C.
Drawn O.L.C.
Checked B.J.P.
Approved
Scale 1"=5'
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Date 06/26/2019
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Title
CROSS-SECTION SHEET

Sheet No.

XSC-36

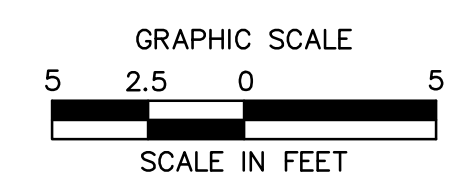
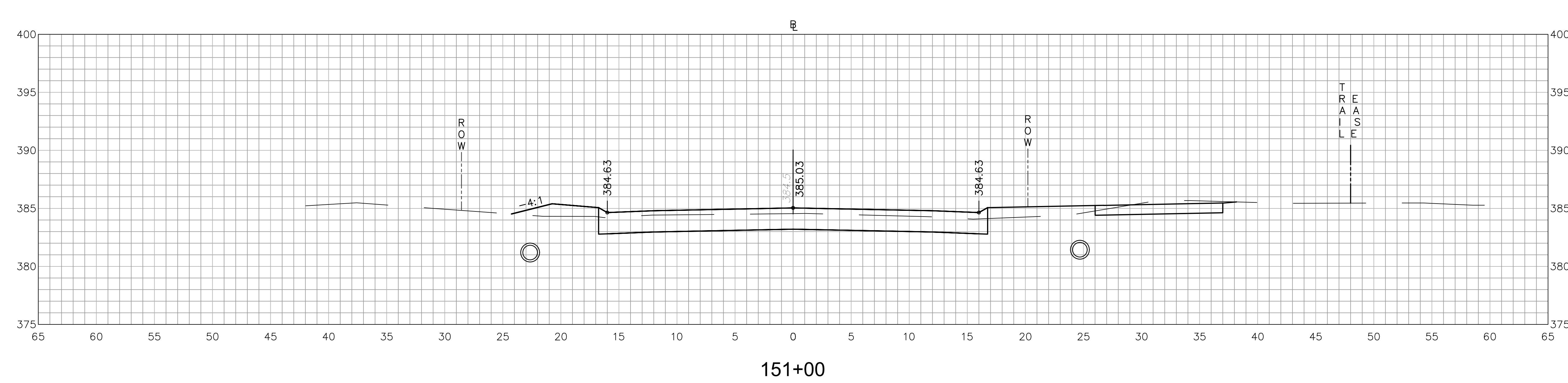
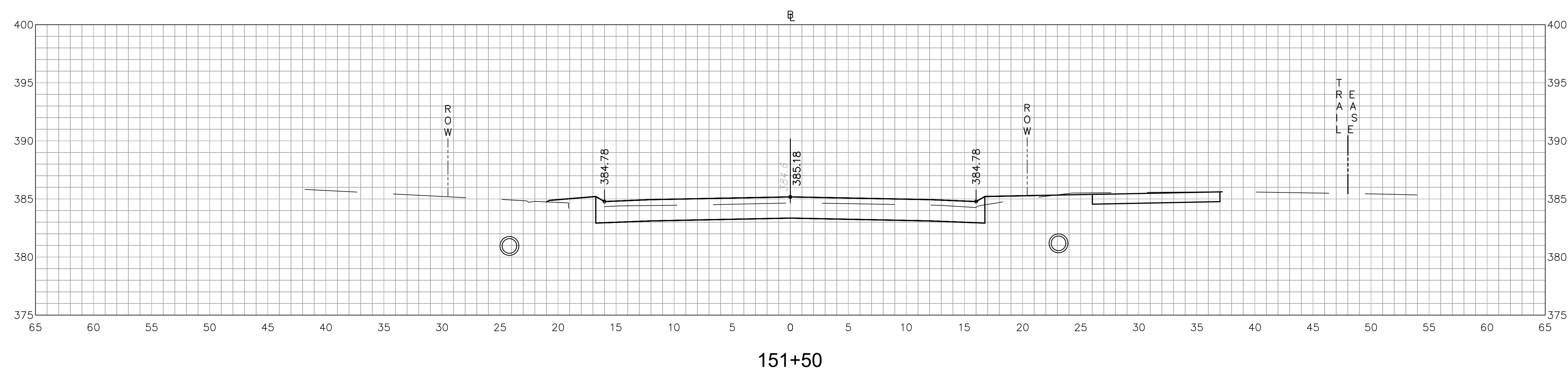
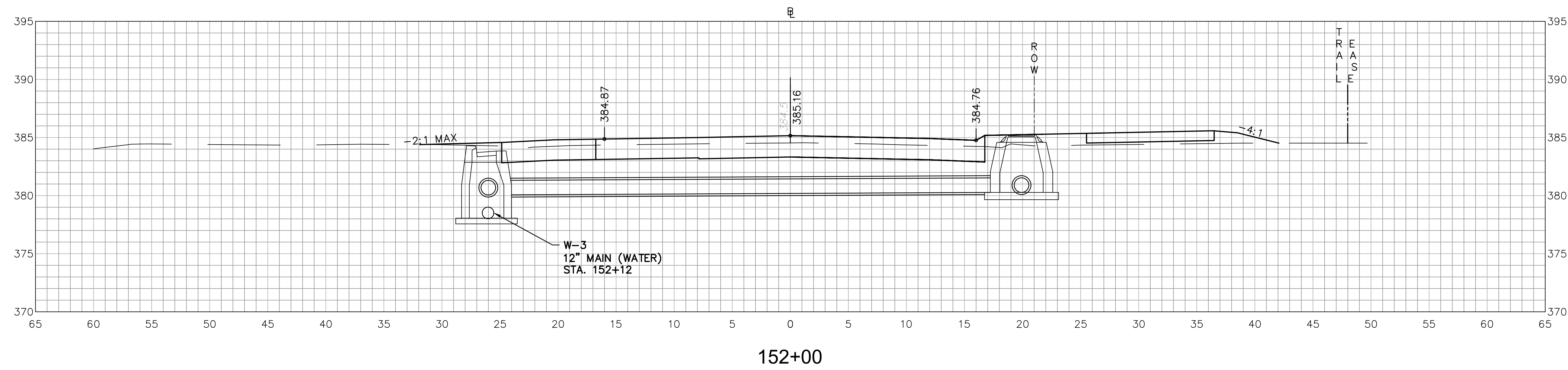
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

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Checked	B.J.P.
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Project No.	12C4326
Date	06/26/2019
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Title
CROSS-SECTION SHEET

Sheet No.
XSC-37



**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

REVISIONS No.	Date	Desc.

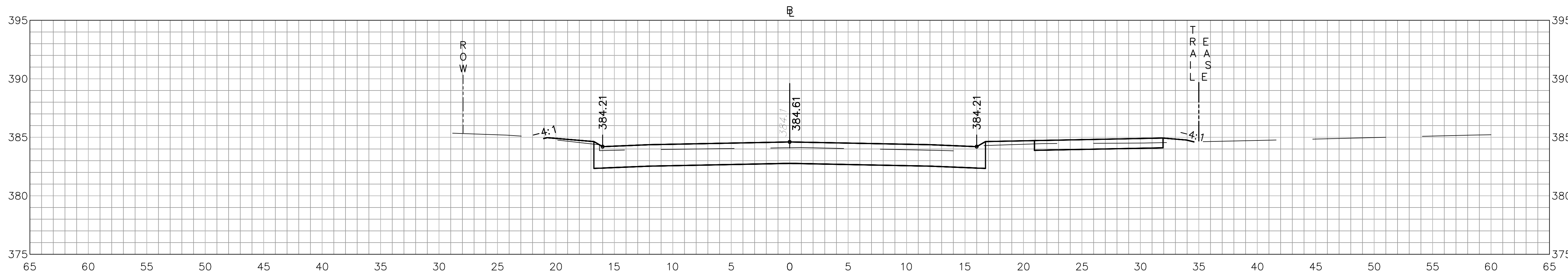
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Date	06/26/2019
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Title
**CROSS-SECTION
SHEET**

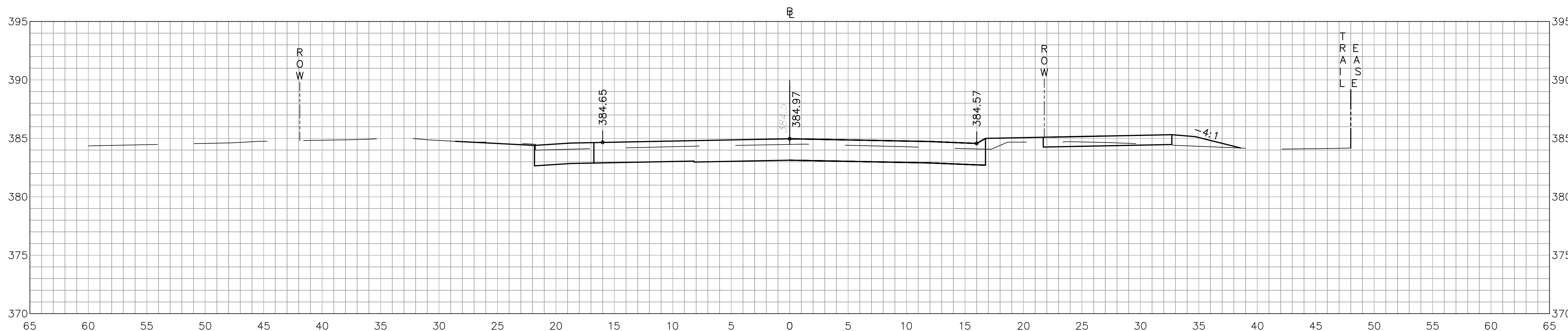
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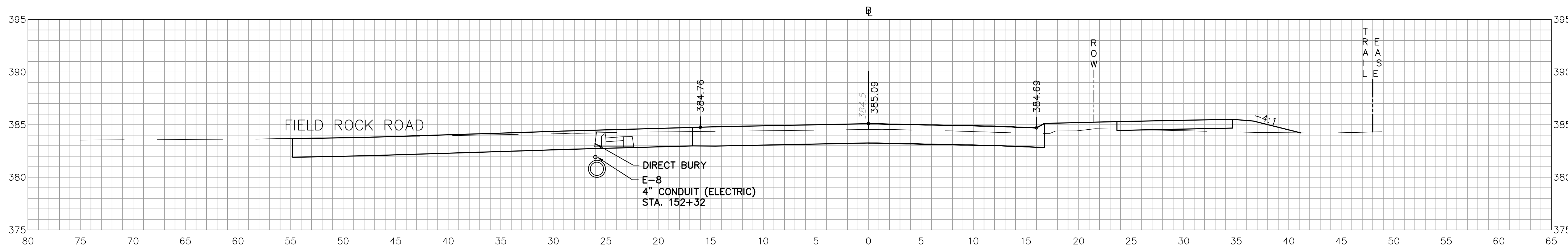
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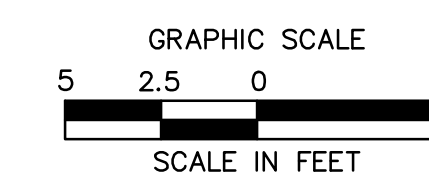
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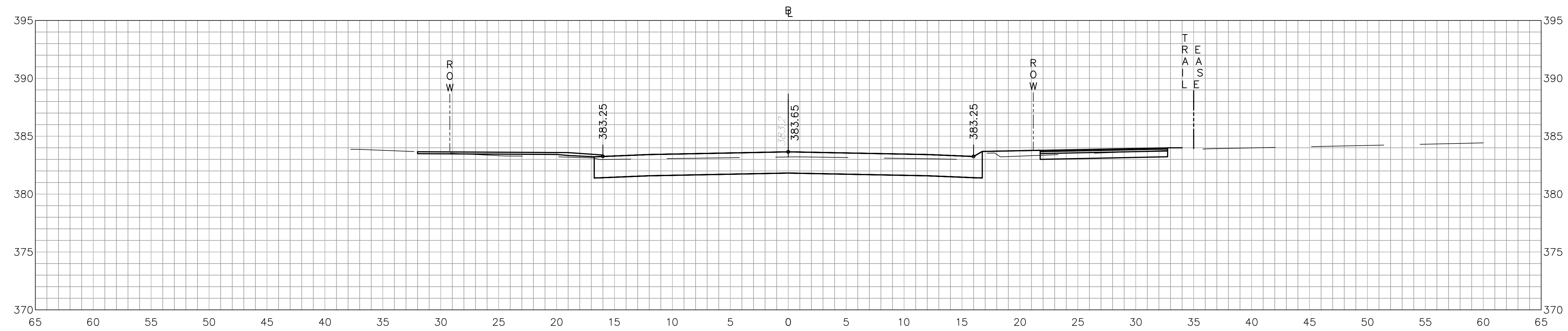
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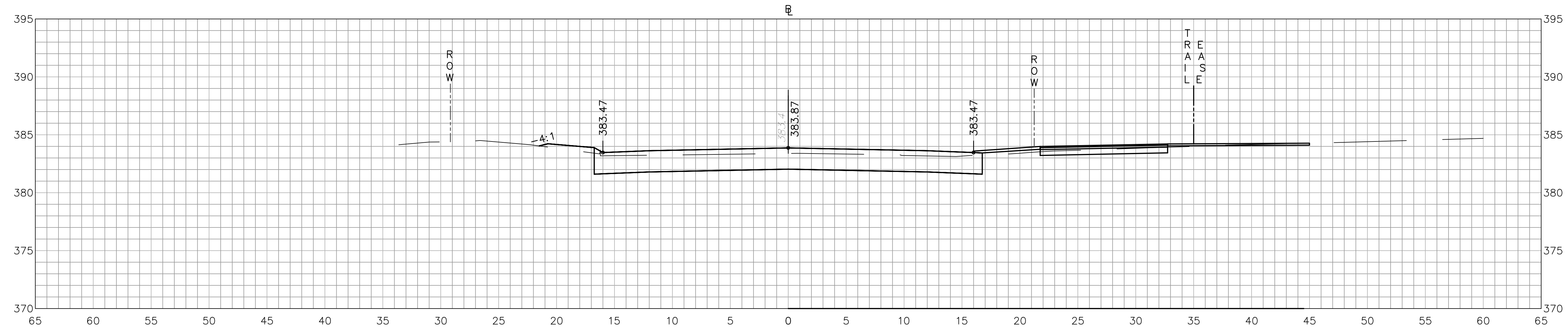
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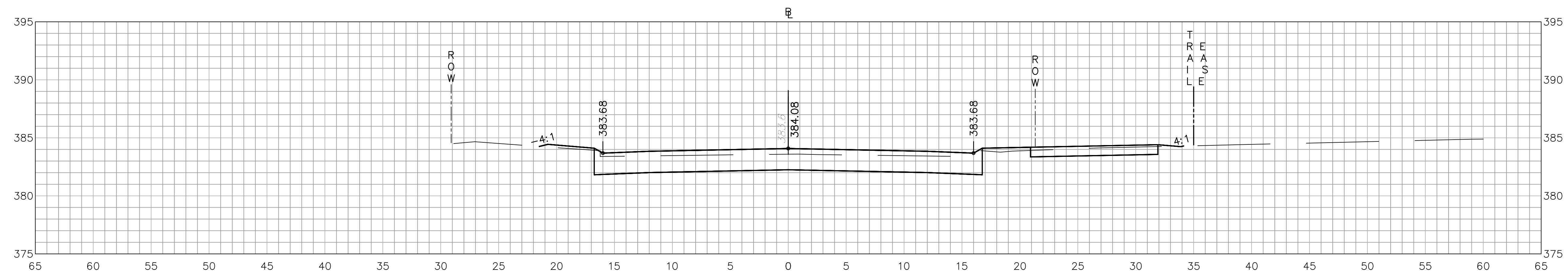
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT



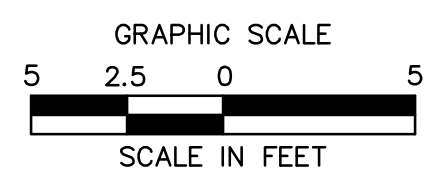
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No.	Date

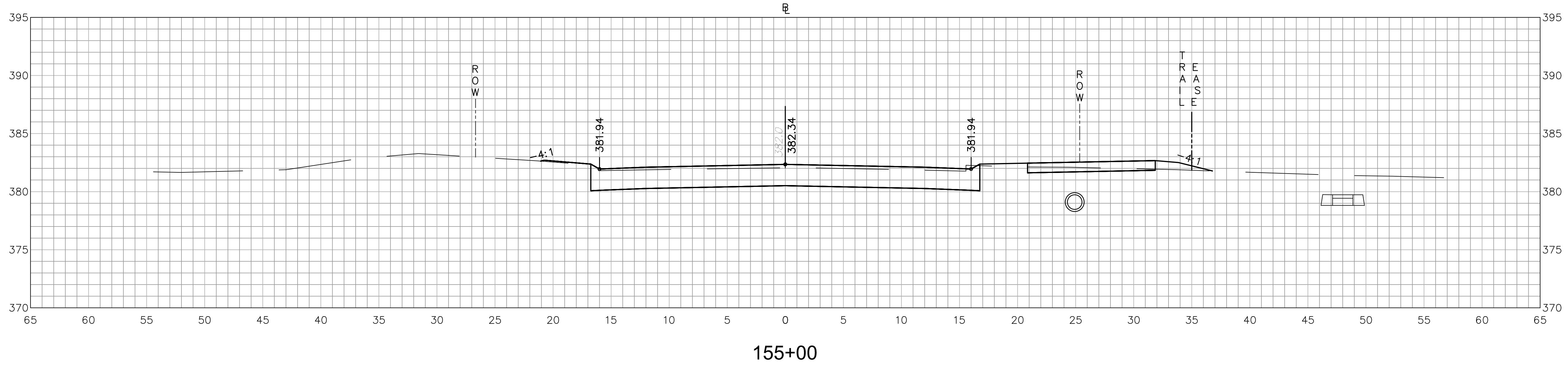
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Date	06/26/2019
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Title
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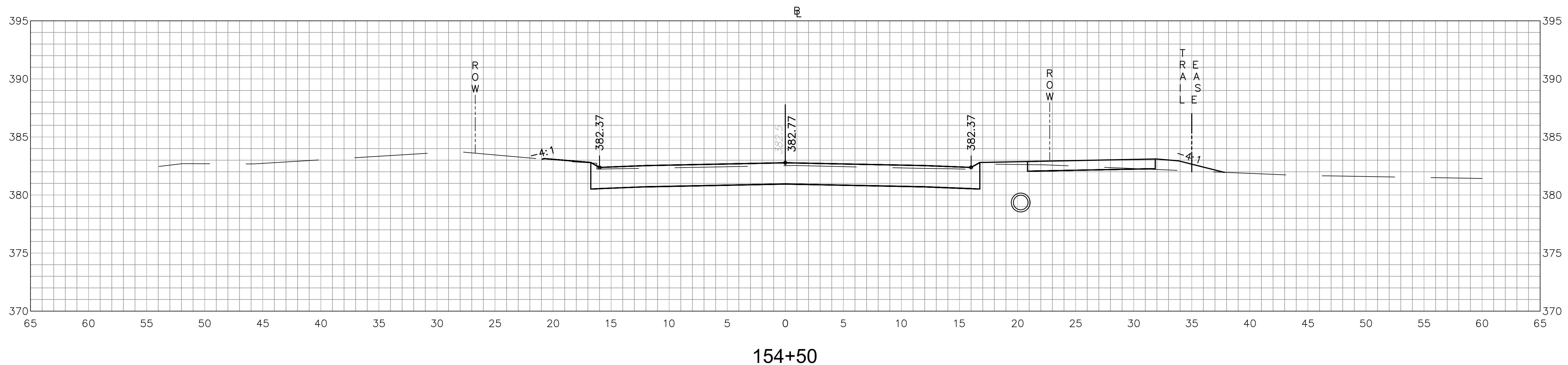
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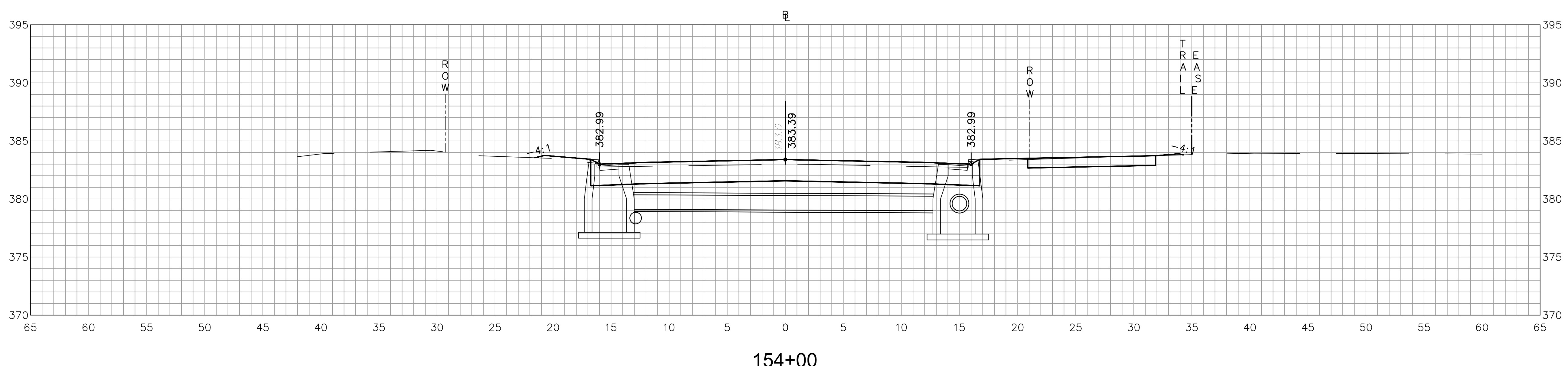
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT



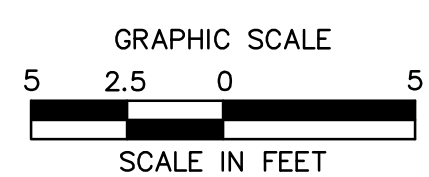
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154+00



REVISIONS	No.	Date	Desc.

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Sheet No.	

XSC-40

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

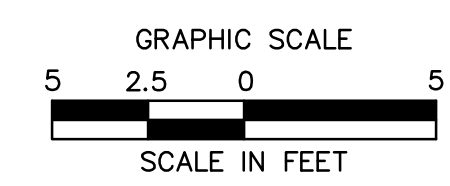
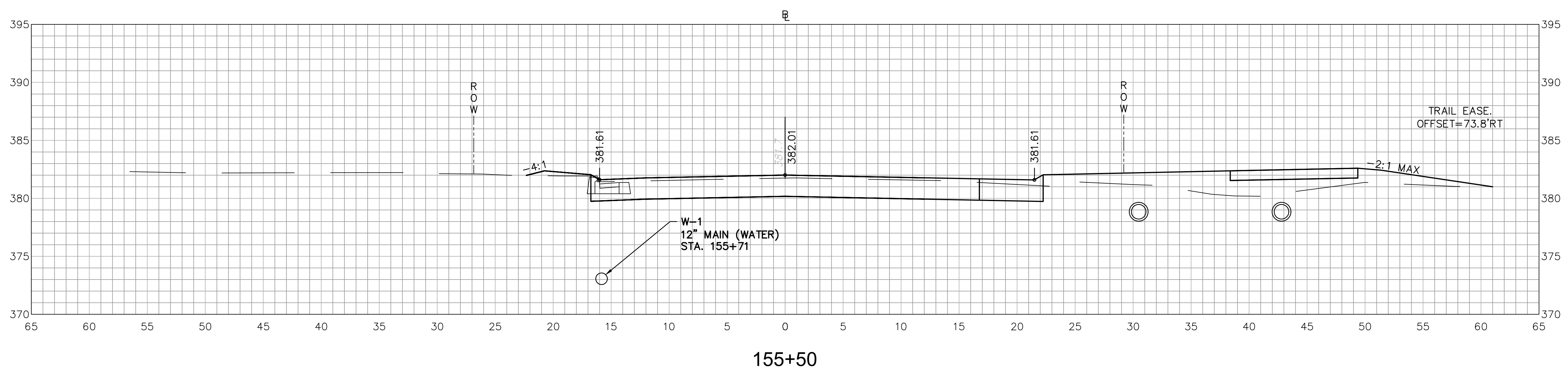
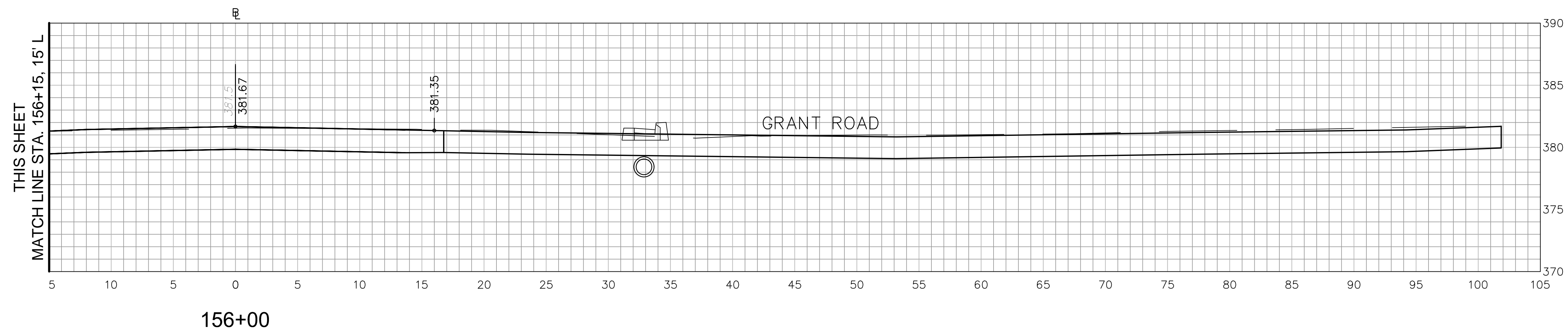
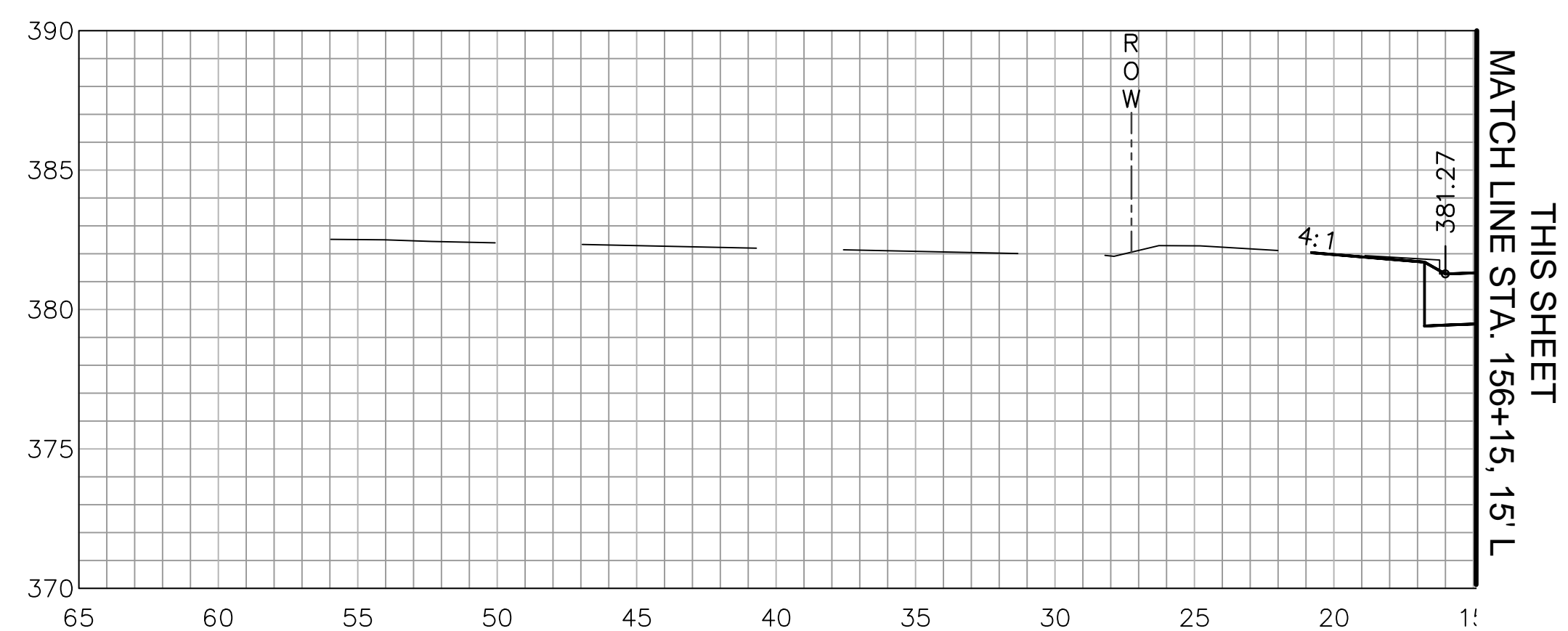
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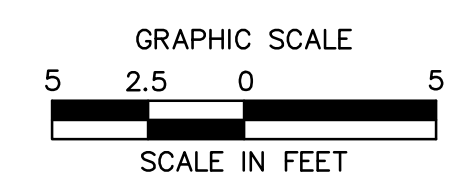
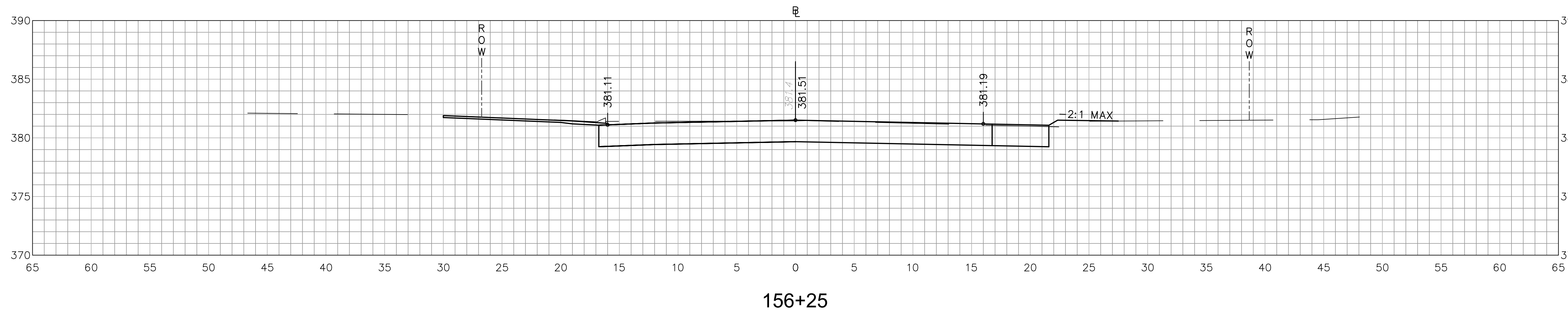
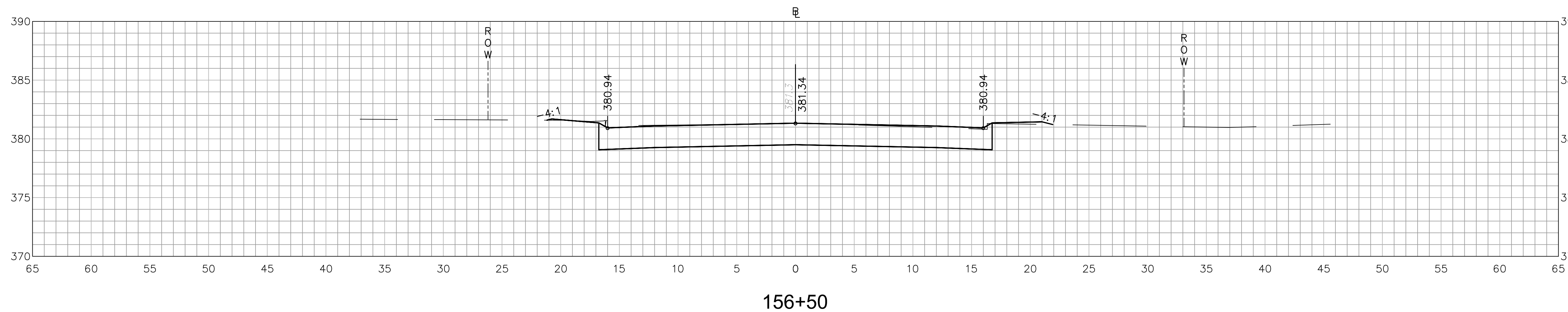
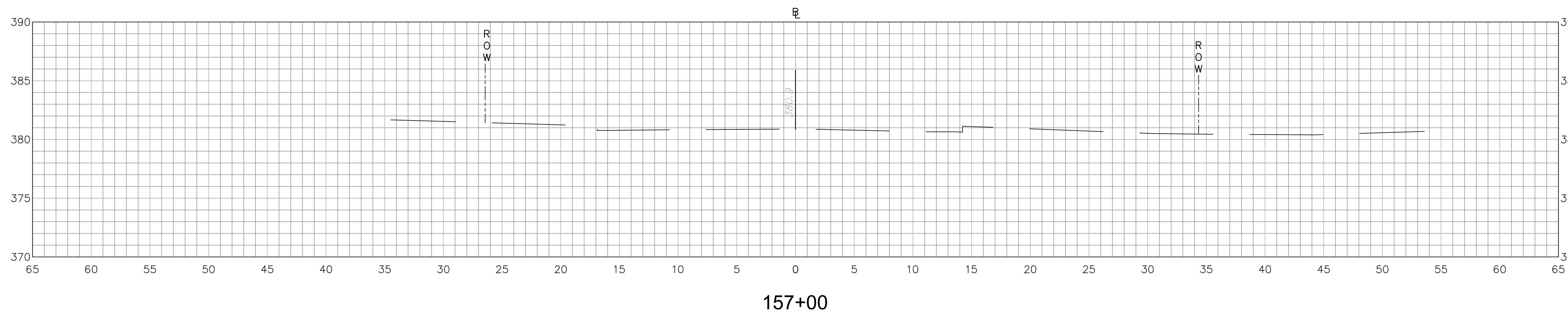
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XSC-41



ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

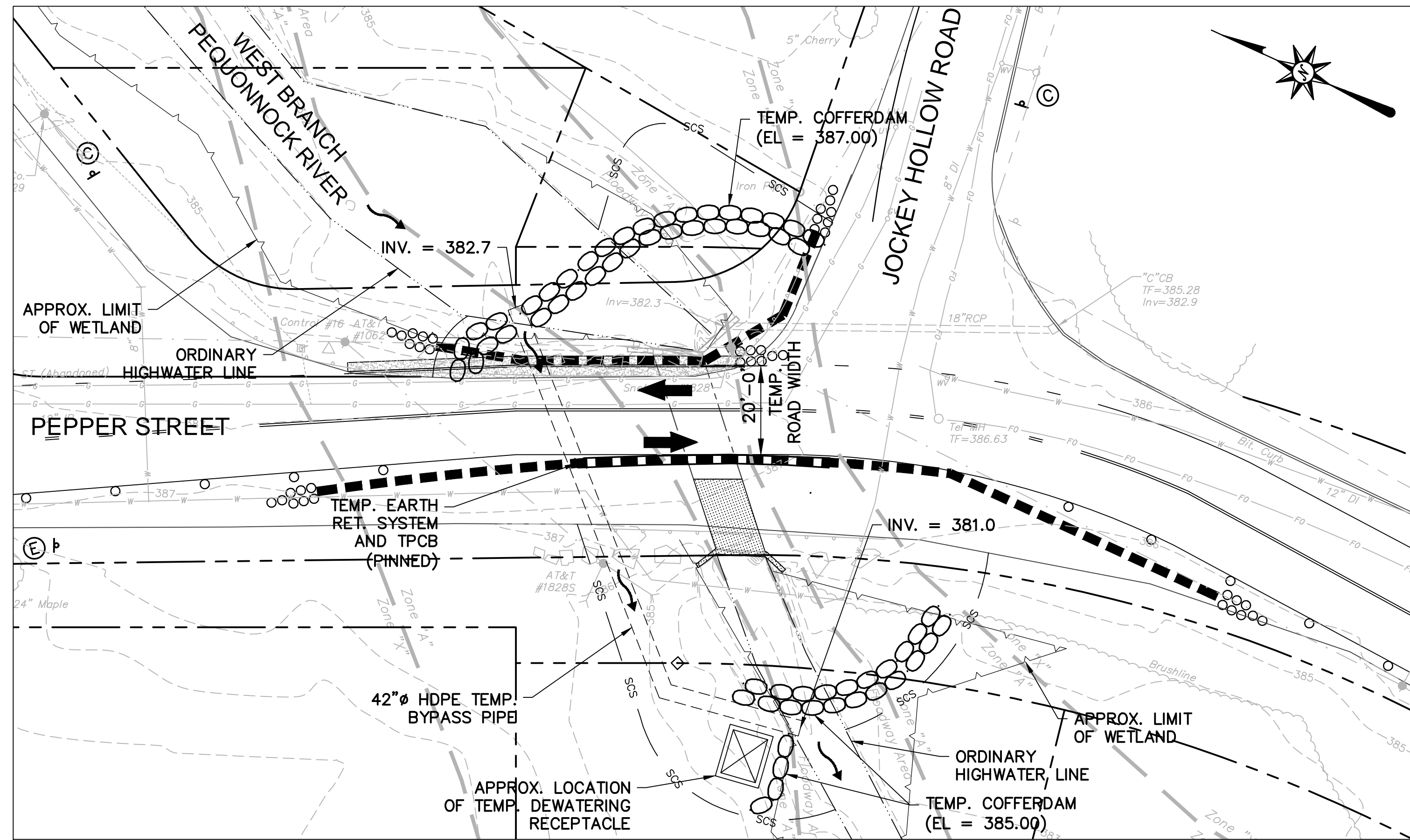


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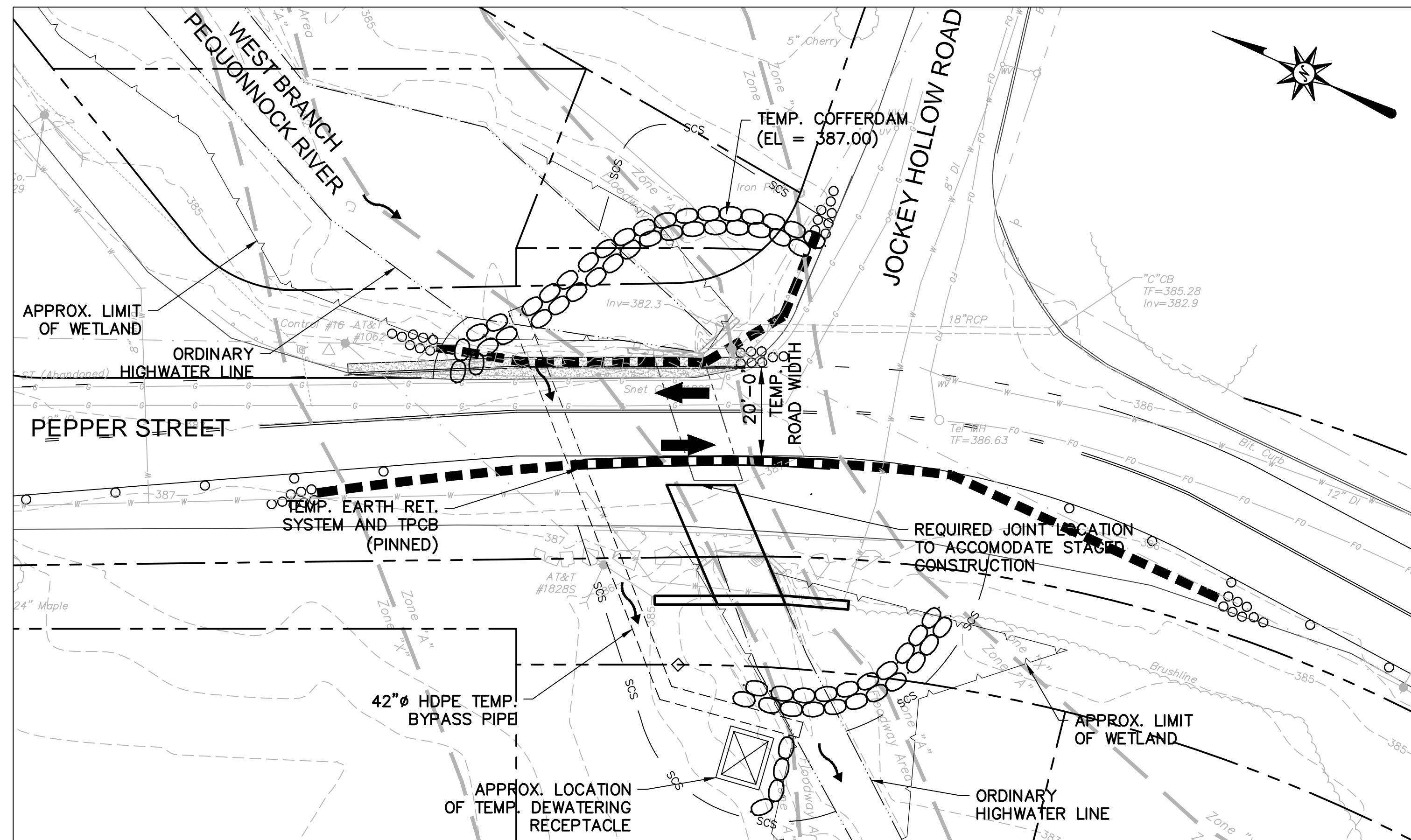
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Checked	B.J.P.
Approved	
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Project No.	12C4326
Date	06/26/2019
CAD File:	TXSC12C432601

Title
CROSS-SECTION SHEET

Sheet No.
XSC-42



STAGE 1
SCALE: 1" = 20'-0"



STAGE 2
SCALE: 1" = 20'-0"

GENERAL NOTES

1. THE CONTRACTOR SHALL SUBMIT A DETAILED PLAN AND NARRATIVE DESCRIBING THE CONSTRUCTION SEQUENCING. IN PARTICULAR, THE CONTRACTOR SHALL SUBMIT DETAILED INFORMATION RELATING TO WATER HANDLING FOR APPROVAL BY THE ENGINEER.
2. BEST MANAGEMENT PRACTICES (BMP) SHALL BE UTILIZED AS APPROPRIATE AND SHALL BE CONSISTENT WITH THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
3. CONSTRUCTION ACTIVITIES SHALL CONFORM TO SECTION 1.10, ENVIRONMENTAL COMPLIANCE FROM THE STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION, FORM 816, 2004, STATE OF CONNECTICUT, DEPARTMENT OF TRANSPORTATION.
4. DEWATERING, IF NEEDED, SHALL UTILIZE BMP'S AS APPLICABLE.
5. BASE STREAM FLOWS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. PROVISIONS TO PROVIDE SAFE PASSAGE OF A 2-YEAR STORM EVENT SHALL ALSO BE IMPLEMENTED AS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROVIDING SAFE PASSAGE OF FLOW AT ALL TIMES ESPECIALLY IN THE EVENT OF A MAJOR STORM EVENT.

SUGGESTED SEQUENCE OF CONSTRUCTION:

PRE-CONSTRUCTION

1. CONTACT "CALL BEFORE YOU DIG" AND PERFORM UTILITY MARK OUT.
2. PROVIDE ALTERNATING 1 WAY TRAFFIC.
3. INSTALL THE TEMPORARY BY-PASS PIPE
4. INSTALL TEMPORARY PAVEMENT.

STAGE 1

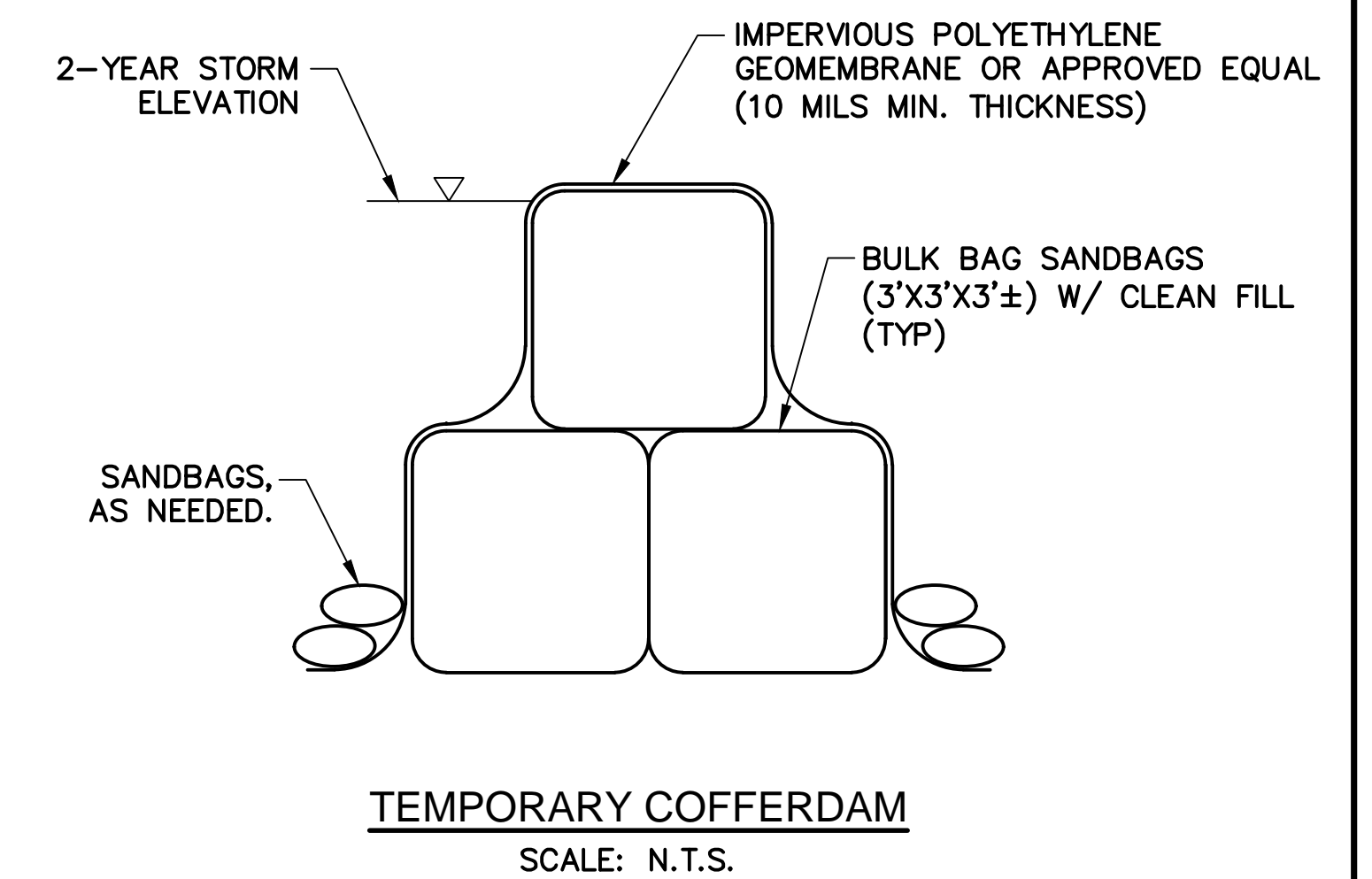
1. SHIFT TRAFFIC AS SHOWN.
2. INSTALL SEDIMENTATION AND EROSION CONTROL MEASURES AS REQUIRED.
3. INSTALL THE TEMPORARY COFFERDAMS AND TEMPORARY DEWATERING RECEPTACLES, AS SHOWN.
4. DEWATER THE SITE, AS NEEDED.
5. INSTALL TEMPORARY UTILITY SUPPORT.
6. INSTALL TEMPORARY EARTH RETAINING SYSTEM AND ACCOMODATE BY-PASS PIPE AS NECESSARY.
7. REMOVE THE WEST HALF OF EXISTING STRUCTURE AS SHOWN.
8. RELOCATE THE GAS MAINS AND THE WATER MAIN, AS SHOWN ON SHEET NO. HWY-1.

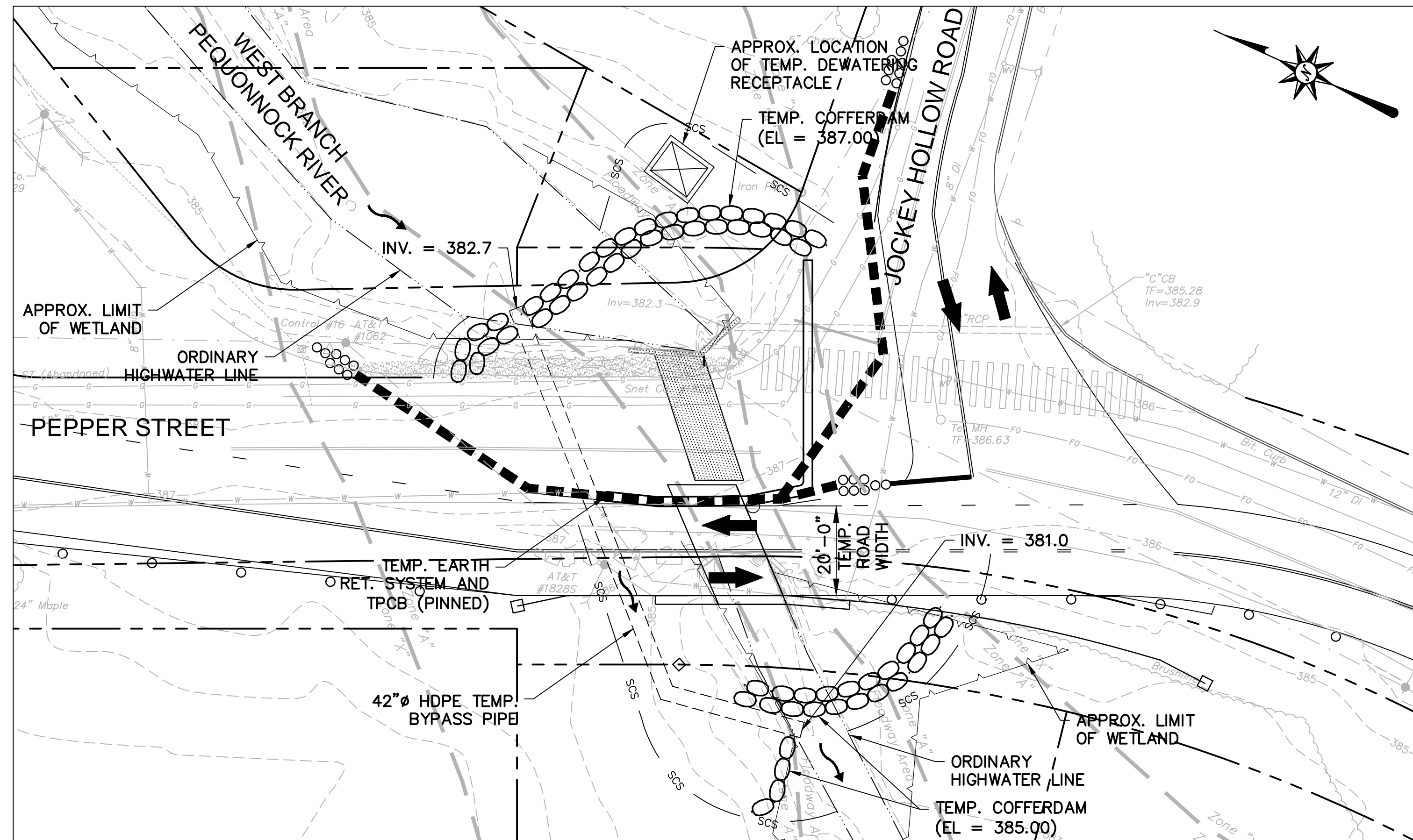
STAGE 2

1. CONSTRUCT THE WEST SUBSTRUCTURE INCLUDING THE CUTOFF WALLS, RETURN WALLS AND WINGWALLS.
2. INSTALL WEST HALF OF THE PRECAST CONCRETE BOX CULVERT INCLUDING THE HEADWALLS
3. APPLY MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC).
4. BACKFILL THE STRUCTURE PER SPECIFICATIONS.
5. INSTALL THE BRIDGE RAILING.
6. CONSTRUCT THE APPROACH ROADWAY TO THE PROJECT LIMITS.
7. INSTALL OTHER MISCELLANEOUS ROADWAY ITEMS.

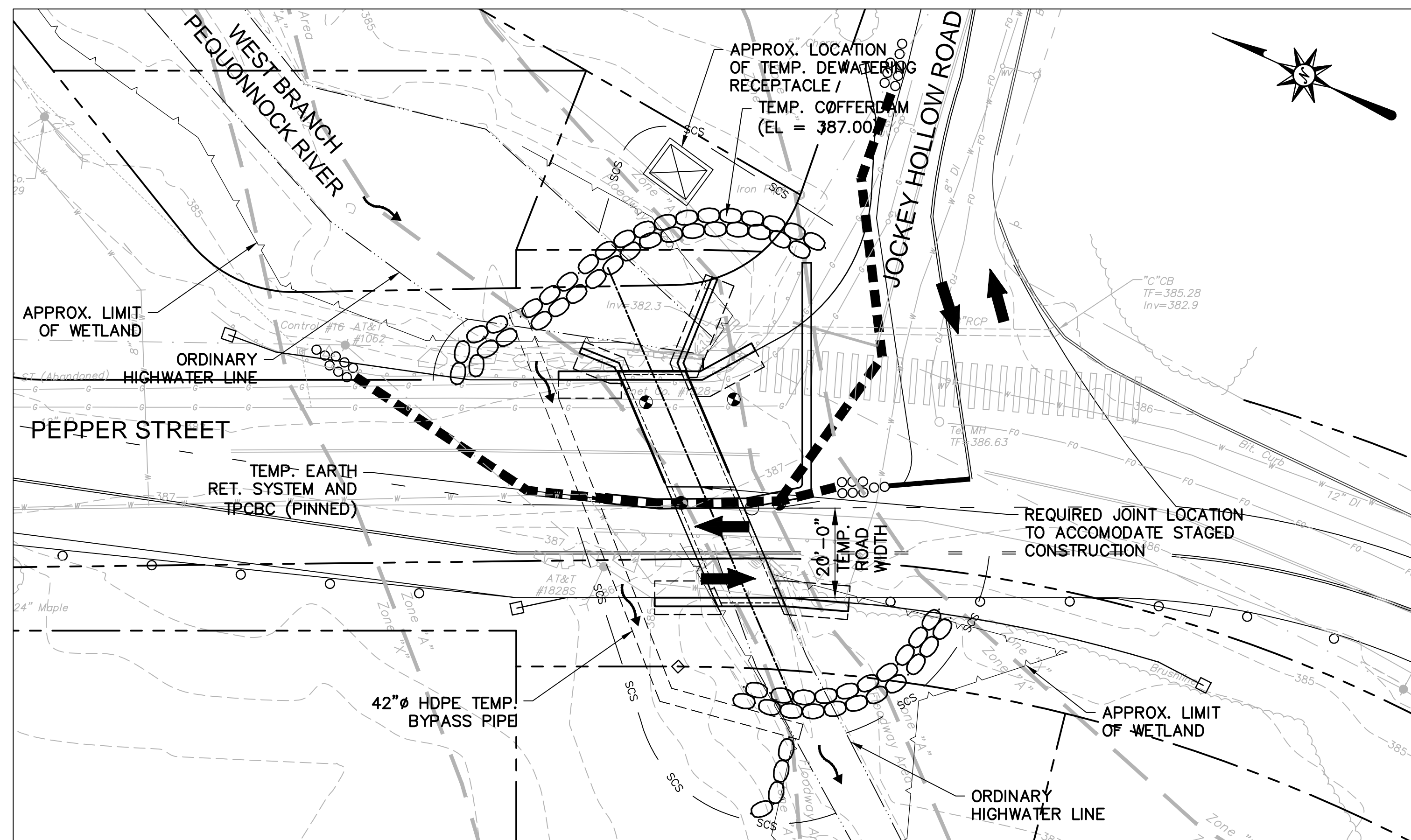
TEMPORARY HYDRAULIC DATA WEST BRANCH PEQUONNOCK RIVER	
AVERAGE DAILY FLOW	1.6 cfs
AVERAGE SPRING FLOW	3.1 cfs
TEMPORARY DESIGN DISCHARGE	39 cfs
TEMPORARY DESIGN FREQUENCY	2-yr
TEMPORARY WATER SURFACE ELEVATION UPSTREAM	385.84 ft
TEMPORARY WATER SURFACE ELEVATION DOWNSTREAM	382.51 ft

LEGEND	
	- REMOVE EXISTING CULVERT
	- SEDIMENTATION CONTROL SYSTEM
	- TEMPORARY COFFERDAM





STAGE 3
SCALE: 1" = 20'-0"



STAGE 4
SCALE: 1" = 20'-0"

SUGGESTED SEQUENCE OF CONSTRUCTION:

STAGE 3

1. SHIFT TEMPORARY EARTH RETAINING SYSTEM AS SHOWN.
2. SHIFT TRAFFIC AS SHOWN.
3. INSTALL SEDIMENTATION AND EROSION CONTROL MEASURES AS REQUIRED.
4. DEWATER THE SITE, AS NEEDED.
5. INSTALL TEMPORARY UTILITY SUPPORT.
6. REMOVE THE EAST HALF OF EXISTING STRUCTURE AS SHOWN.
7. RELOCATE THE GAS MAINS AND THE WATER MAIN, AS SHOWN ON SHEET NO. HWY-1
8. DEMOLISH THE EAST HALF OF THE EXISTING STRUCTURE,

STAGE 4

1. CONSTRUCT THE EAST SUBSTRUCTURE INCLUDING THE CUTOFF WALLS, RETURN WALLS AND WINGWALLS.
2. INSTALL EAST HALF OF THE PRECAST CONCRETE BOX CULVERT INCLUDING THE HEADWALLS.
3. APPLY MEMBRANE WATERPROOFING (COLD LIQUID ELASTOMERIC).
4. BACKFILL THE STRUCTURE PER SPECIFICATIONS.
5. INSTALL THE BRIDGE RAILING.
6. CONSTRUCT THE APPROACH ROADWAY TO THE PROJECT LIMITS.
7. INSTALL OTHER MISCELLANEOUS ROADWAY ITEMS.
8. BEGIN SITE RESTORATION. INSTALL TOPSOIL AND TURF ESTABLISHMENT.
9. REMOVE SEDIMENTATION AND EROSION CONTROL MEASURES AND TEMPORARY COFFERDAM.
10. PERFORM FINAL SITE CLEAN UP.

REVISIONS	No.	Date	Desc.

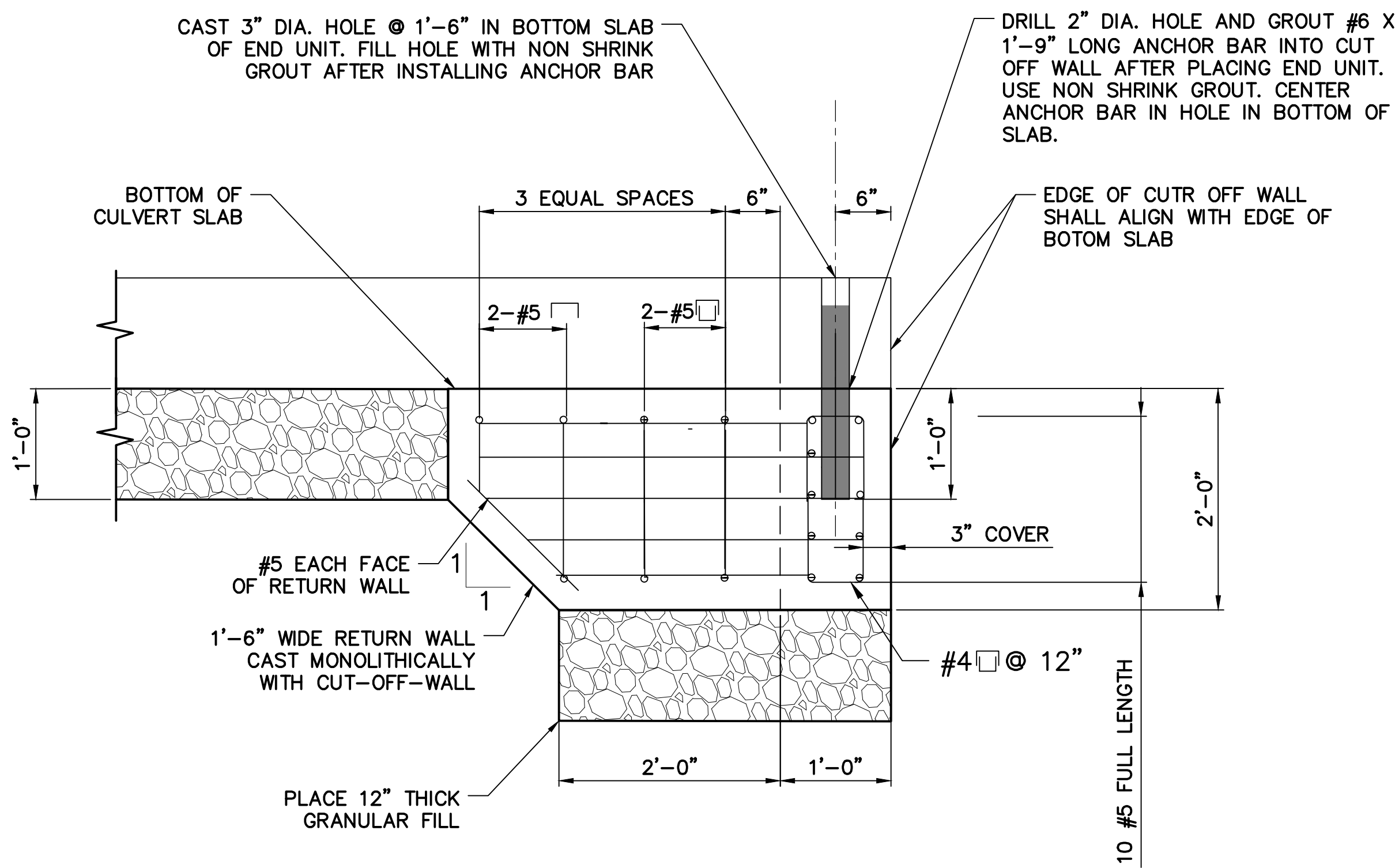
Designed	C.A.P.
Drawn	C.A.P.
Checked	
Approved	
Scale	AS NOTED
Project No.	12C4326
Date	06/26/2019
CAD File:	TBR12C432603
Title	
CONSTRUCTION STAGING & WATER HANDLING	
Sheet No.	

GENERAL NOTES

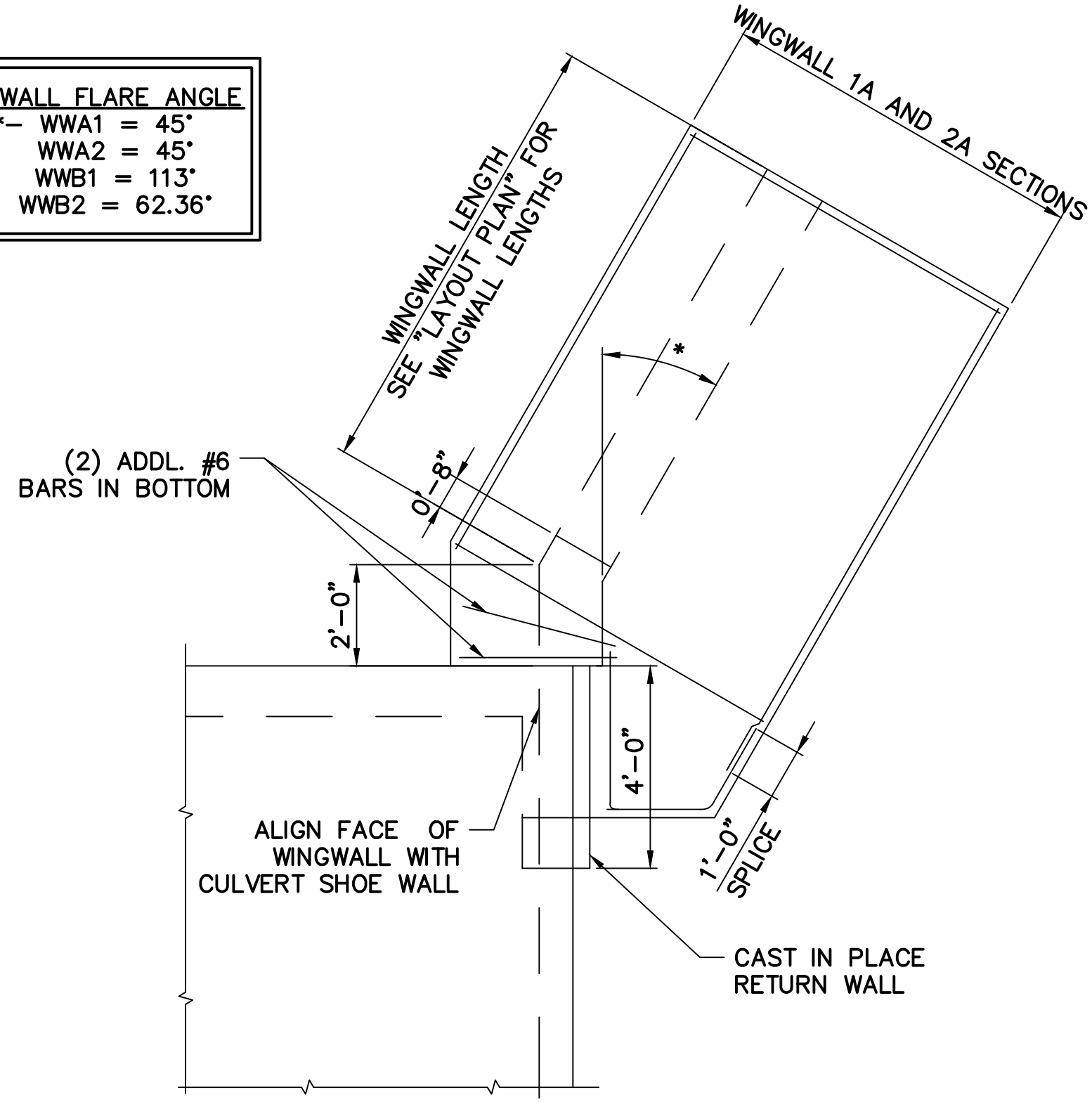
1. THE CONTRACTOR SHALL DESIGN, MANUFACTURE AND CONSTRUCT THE PRECAST CONCRETE BOX CULVERT AND BAFFLE IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR THE "12' X 5' PRECAST CONCRETE BOX CULVERT" AND TO THE INSIDE DIMENSION, LENGTH AND DETAILS AS SHOWN ON THESE PLANS.
2. ALL INSERTS OR HOLES CAST INTO THE CULVERT SECTIONS FOR THE SOLE PURPOSE OF HANDLING AND SETTING THE UNITS SHALL BE GROUTED OVER TO A SMOOTH FINISH UPON THE COMPLETION OF THE WORK.
3. NON-SHRINK GROUT SHALL BE USED TO GROUT THE REINFORCEMENT.
4. THE COST OF FINISHING AND INSTALLING DOWEL BAR SPLICER SHALL BE INCLUDED IN THE COST OF THE ITEM "12' X 6' PRECAST CONCRETE BOX CULVERT" AND SHALL BE ONE OF THE FOLLOWING:
 - A. STAR EXPANSION INDUSTRIES CORP. TYPE P-35-T
 - B. RICHMOND SCREW ANCHOR CO. TYPE LF
 - C. DAYTON SUPERIOR CORP. TYPE F-57

ALL INSERTS SHALL BE MECHANICALLY GALVANIZED WITH ASTM B 695, CLASS 50, TYPE 1
5. THE #6 BARS WITH THREADED END SHALL BE COMPATIBLE WITH THE THREADED INSERTS (SEE NOTE 4).
6. ALL REINFORCEMENT SHALL HAVE 2" COVER UNLESS OTHERWISE NOTED.
7. ALL STRUCTURES SHALL REST ON A MINIMUM OF 12" COMPACTED GRANULAR FILL.
8. CUT OVERLAY WITH A 3/8" x 1-3/4" DEEP KERF AND FILL WITH A POURABLE SEALANT WHEN COVER IS LESS THAN 2'-0" (FROM TOP OF BOX TO WEARING SURFACE).
9. JOINT SEAL SHALL BE DOW CORNING 902 RCS OR 888 OR APPROVED EQUAL.
10. WINGWALL LAYOUT DIMENSIONS MAY BE ADJUSTED SLIGHTLY AS APPROVED BY THE ENGINEER

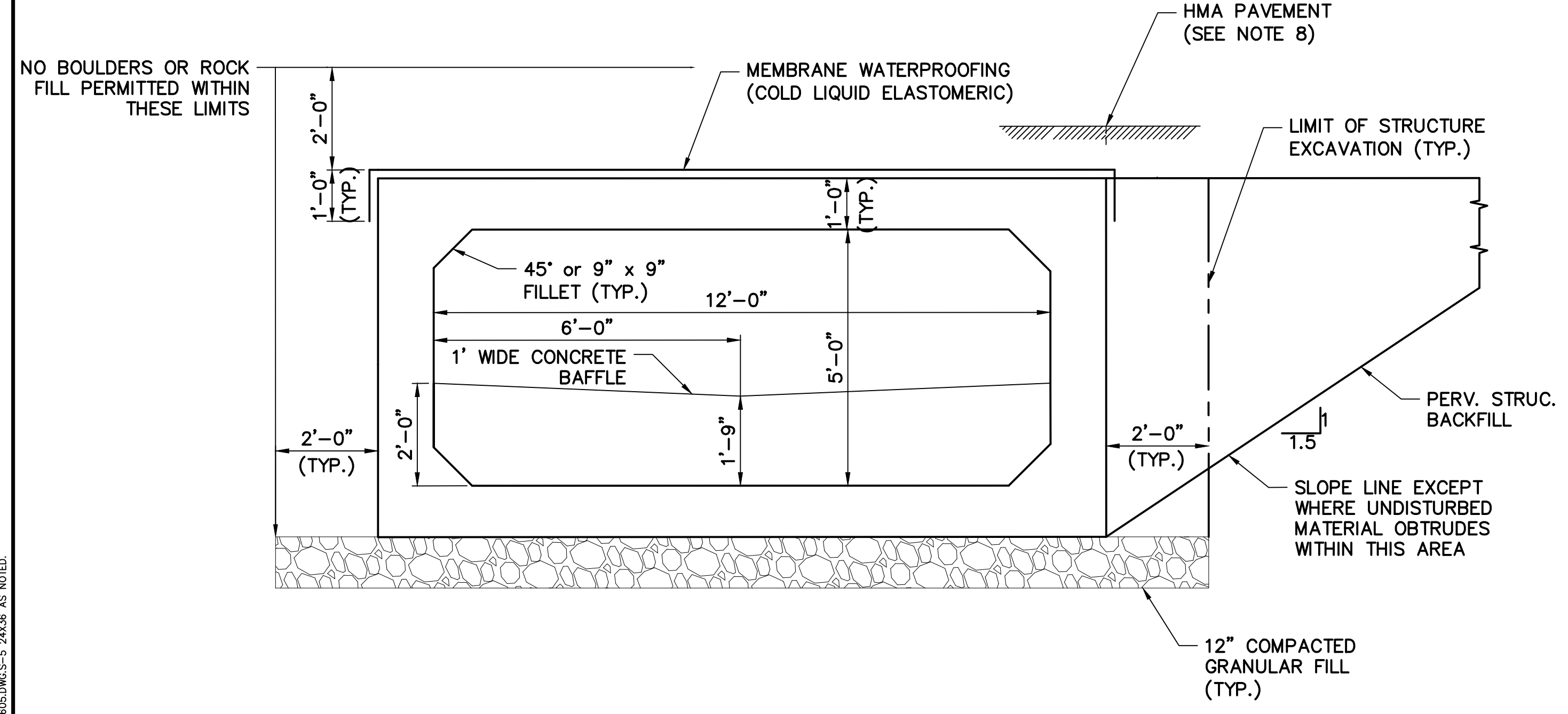
WINGWALL FLARE ANGLE	
*- WWA1	= 45°
WWA2	= 45°
WWB1	= 113°
WWB2	= 62.36°



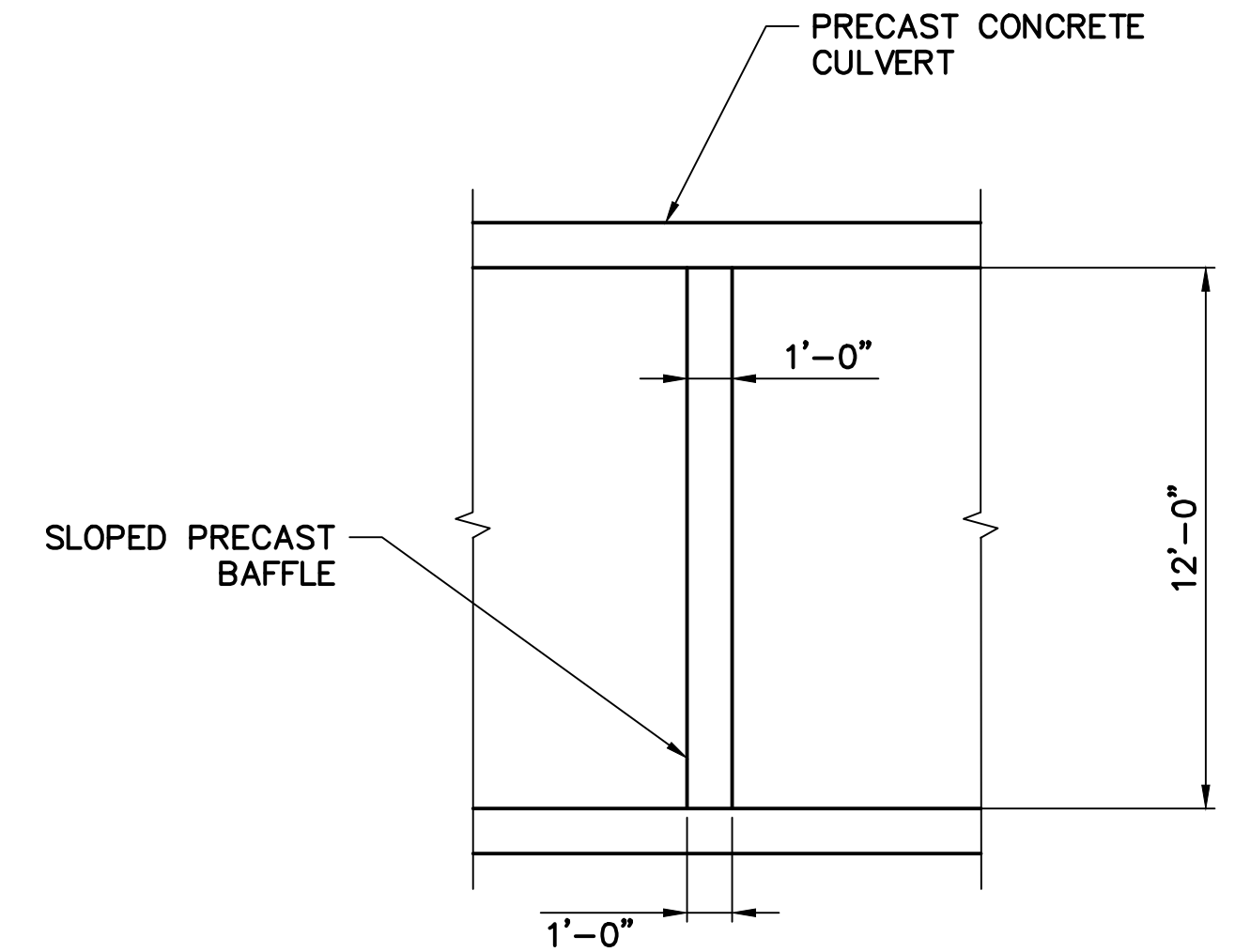
CUTOFF & RETURN WALL DETAIL
SCALE: 1" = 1'-0"



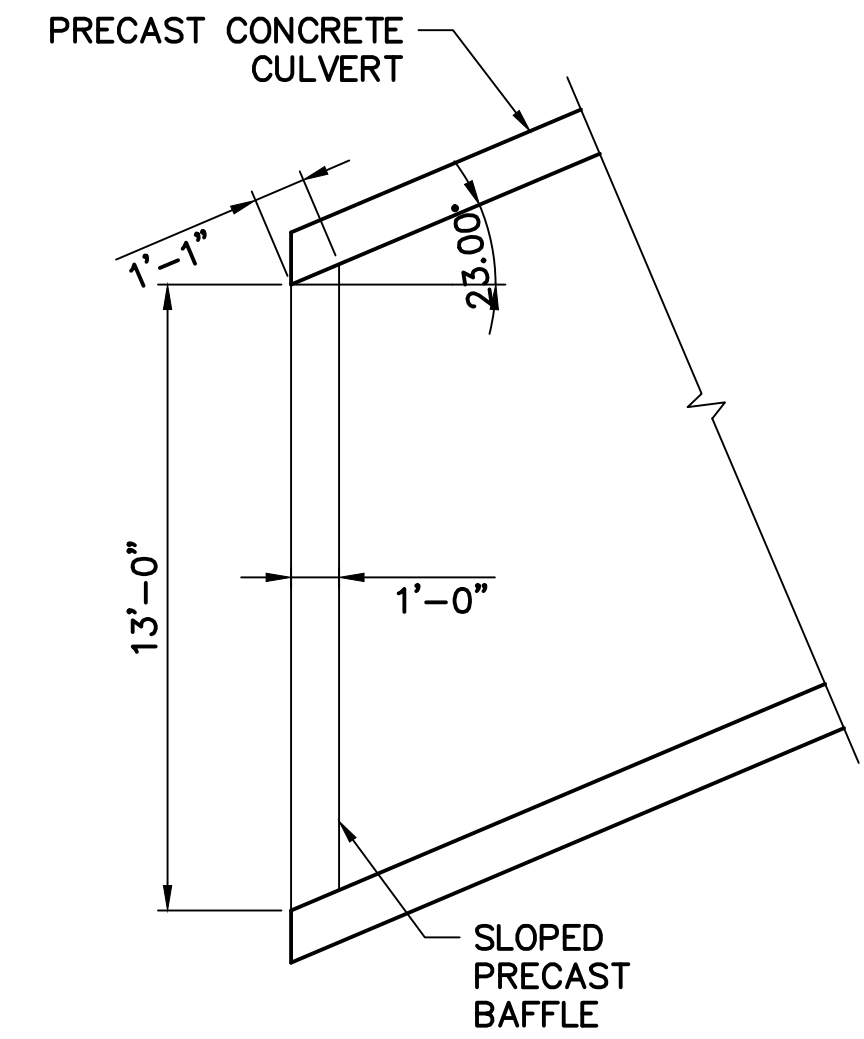
TYPICAL WINGWALL LAYOUT
SCALE: 3/8" = 1'-0"



TYPICAL CULVERT SECTION
SCALE: 1/2" = 1'-0"



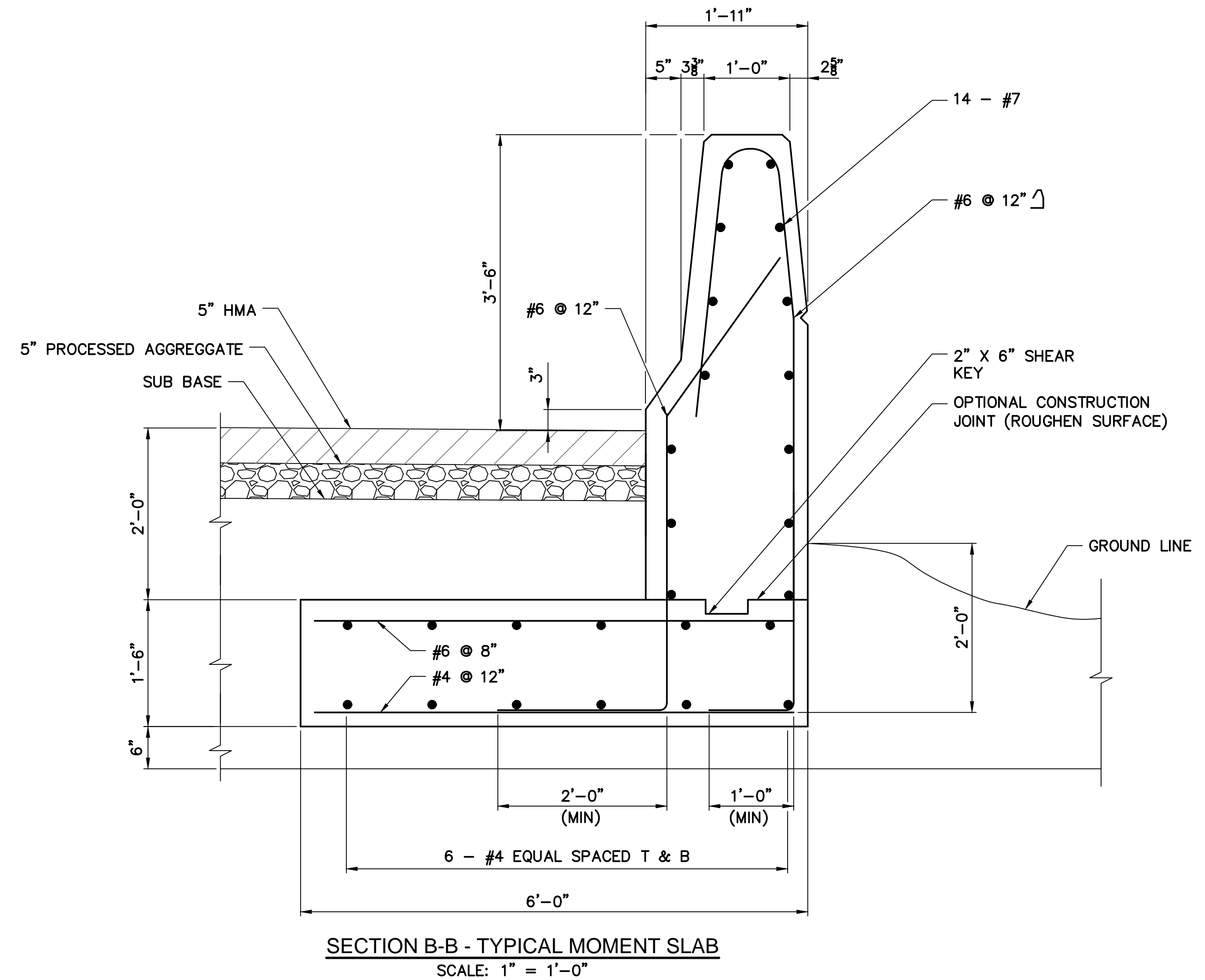
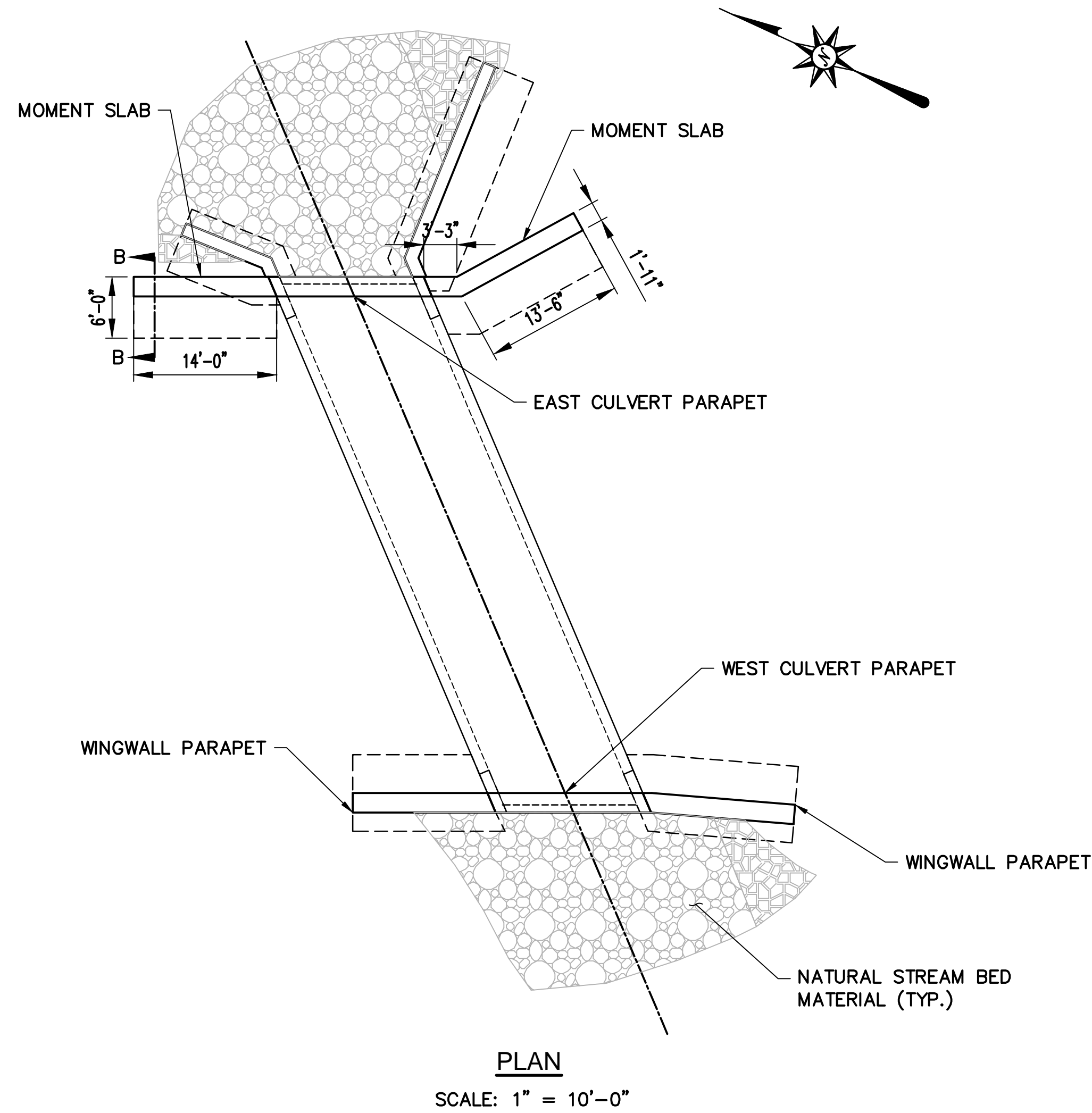
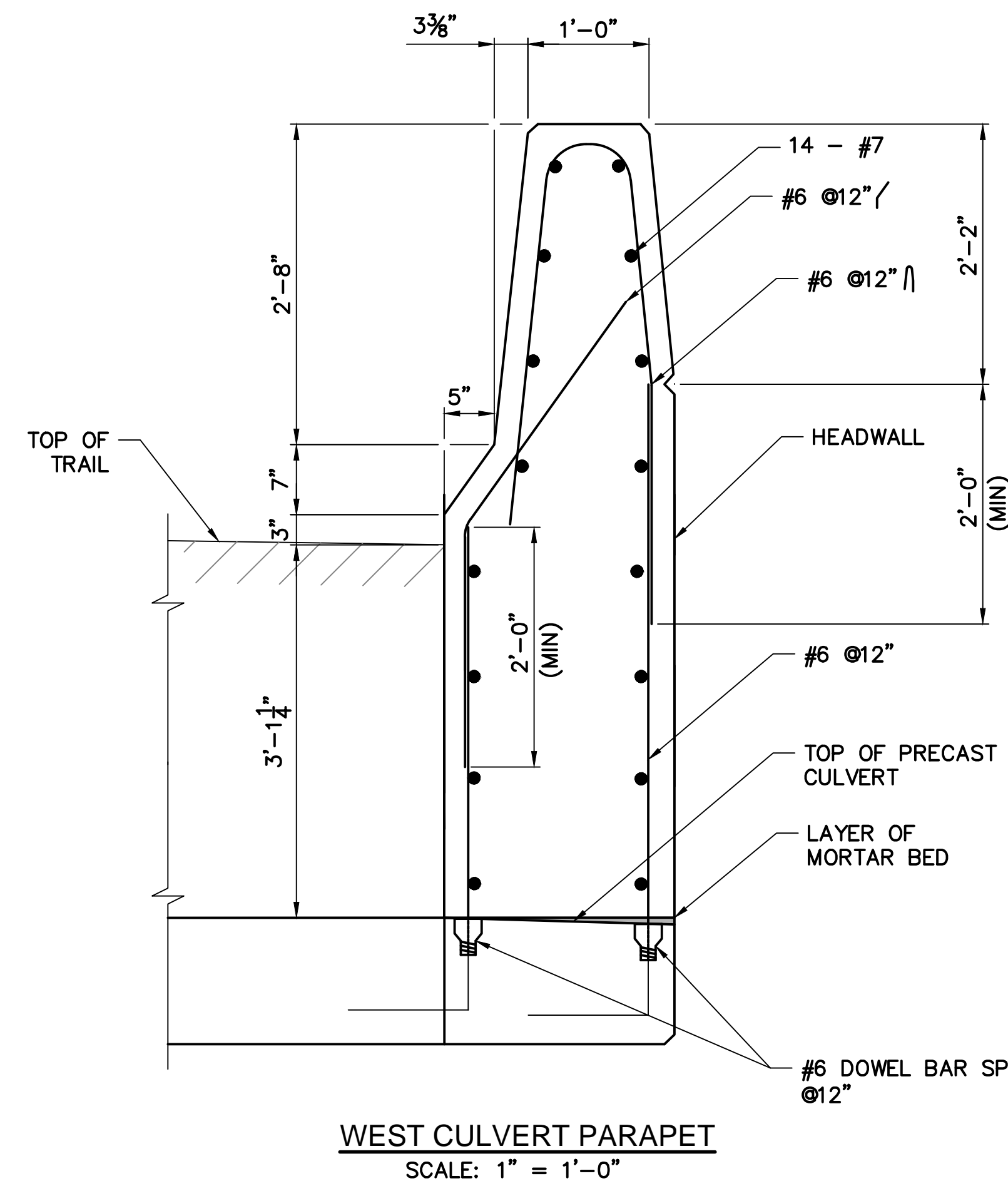
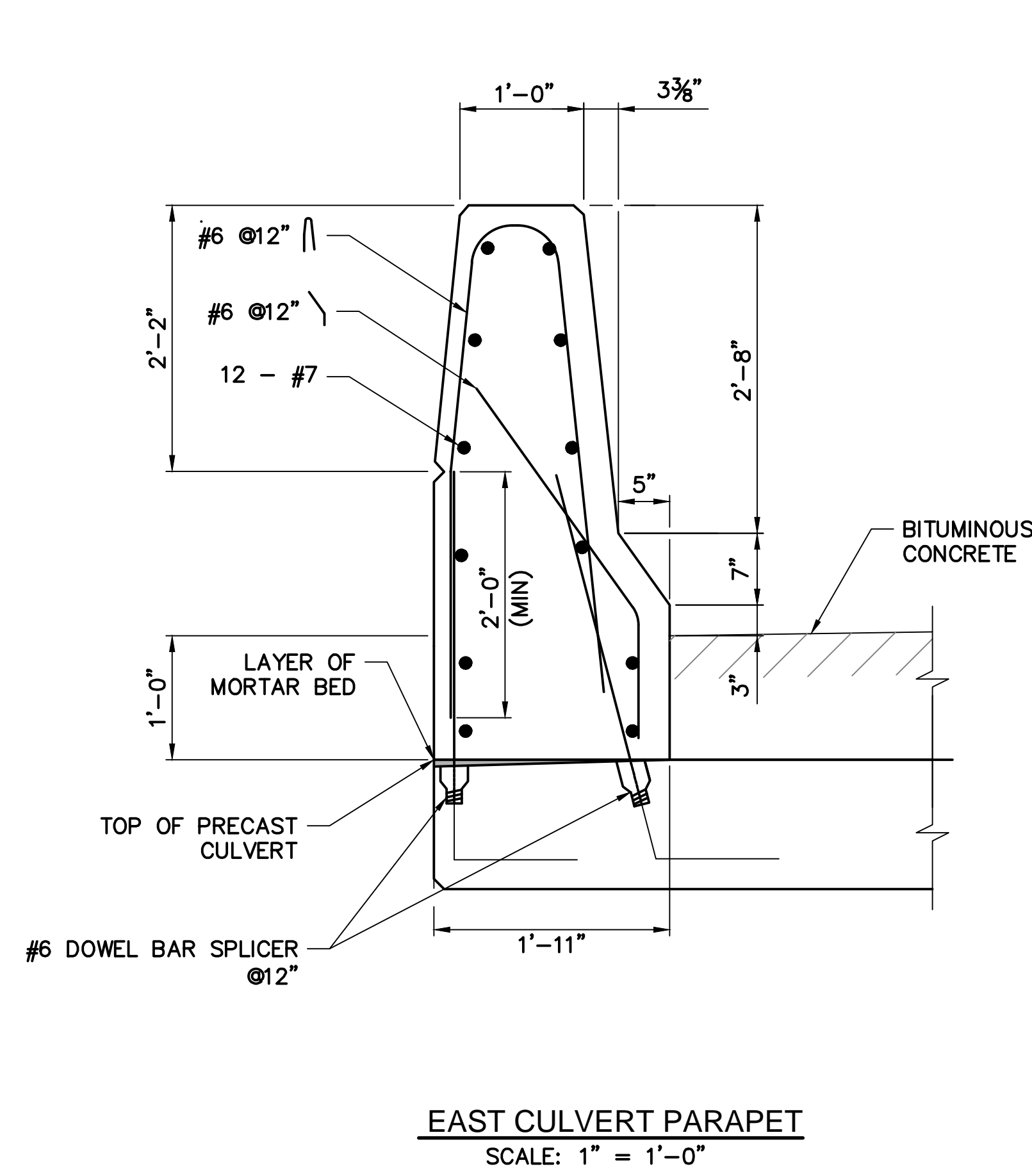
INTERMEDIATE BAFFLE PLAN VIEW
SCALE: 1/4" = 1'-0"



END BAFFLE PLAN VIEW
SCALE: 1/4" = 1'-0"

GENERAL NOTES

1. THE CONTRACTOR SHALL DESIGN, MANUFACTURE AND CONSTRUCT THE PRECAST CULVERT IN ACCORDANCE WITH THE SPECIAL PROVISIONS FOR THE "12' X 5' PRECAST CONCRETE BOX CULVERT" AND TO THE INSIDE DIMENSION, LENGTH AND DETAILS AS SHOWN ON THESE PLANS.
2. ALL INSERTS OR HOLES CAST INTO THE CULVERT SECTIONS FOR THE SOLE PURPOSE OF HANDLING AND SETTING THE UNITS SHALL BE GROUTED OVER TO A SMOOTH FINISH UPON THE COMPLETION OF THE WORK.
3. NON-SHRINK GROUT SHALL BE USED TO GROUT THE REINFORCEMENT.
4. THE COST OF FINISHING AND INSTALLING DOWEL BAR SPLICER SHALL BE INCLUDED IN THE COST OF THE ITEM "12' X 5' PRECAST CONCRETE BOX CULVERT" AND SHALL BE ONE OF THE FOLLOWING:
 - A. STAR EXPANSION INDUSTRIES CORP. TYPE P-35-T
 - B. RICHMOND SCREW ANCHOR CO. TYPE LF
 - C. DAYTON SUPERIOR CORP. TYPE F-57
5. ALL INSERTS SHALL BE MECHANICALLY GALVANIZED WITH ASTM B 695, CLASS 50, TYPE 1
6. ALL REINFORCEMENT SHALL HAVE 2" COVER UNLESS OTHERWISE NOTED.
7. JOINT SEAL SHALL BE DOW CORNING 902 RCS OR 888 OR APPROVED EQUAL.
8. CULVERT PARAPETS SHALL CONSIST OF CLASS "F" CONCRETE AND REINFORCING STEEL SHALL CONSIST OF DEFORMED STEEL BARS (EPOXY COATED).
9. MOMENT SLABS AND PARAPETS SHALL CONFORM TO THE STANDARD CONNDOT PARAPET SHAPE ABOVE GRADE.
10. CONTRACTOR MAY CHOOSE A PRECAST CULVERT PARAPET AND MOMENT SLAB OPTION AS APPROVED BY THE ENGINEER.
11. THE MOMENT SLAB SHALL BE PAID FOR UNDER THE ITEM CLASS "F" CONCRETE AND DEFORMED STEEL BARS (EPOXY COATED)
12. MOMENT SLABS LEADING AND TRAILING ENDS, INCLUDING ATTACHEMENTS, SHALL CONFORM TO CONNDOT BRIDGE STANDARD DETAILS 8.3.3a THROUGH d AND 8.3.4.

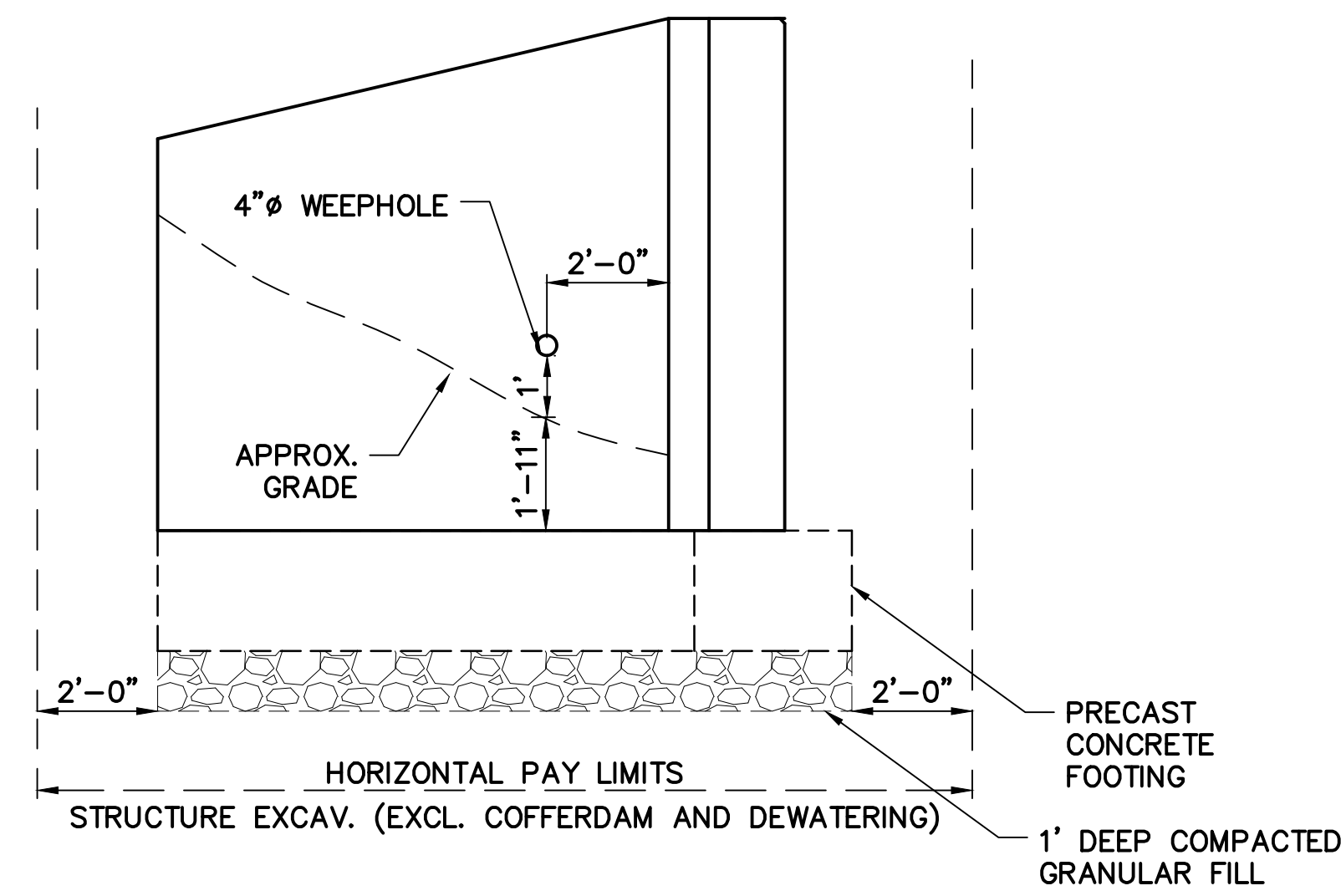


GENERAL NOTES

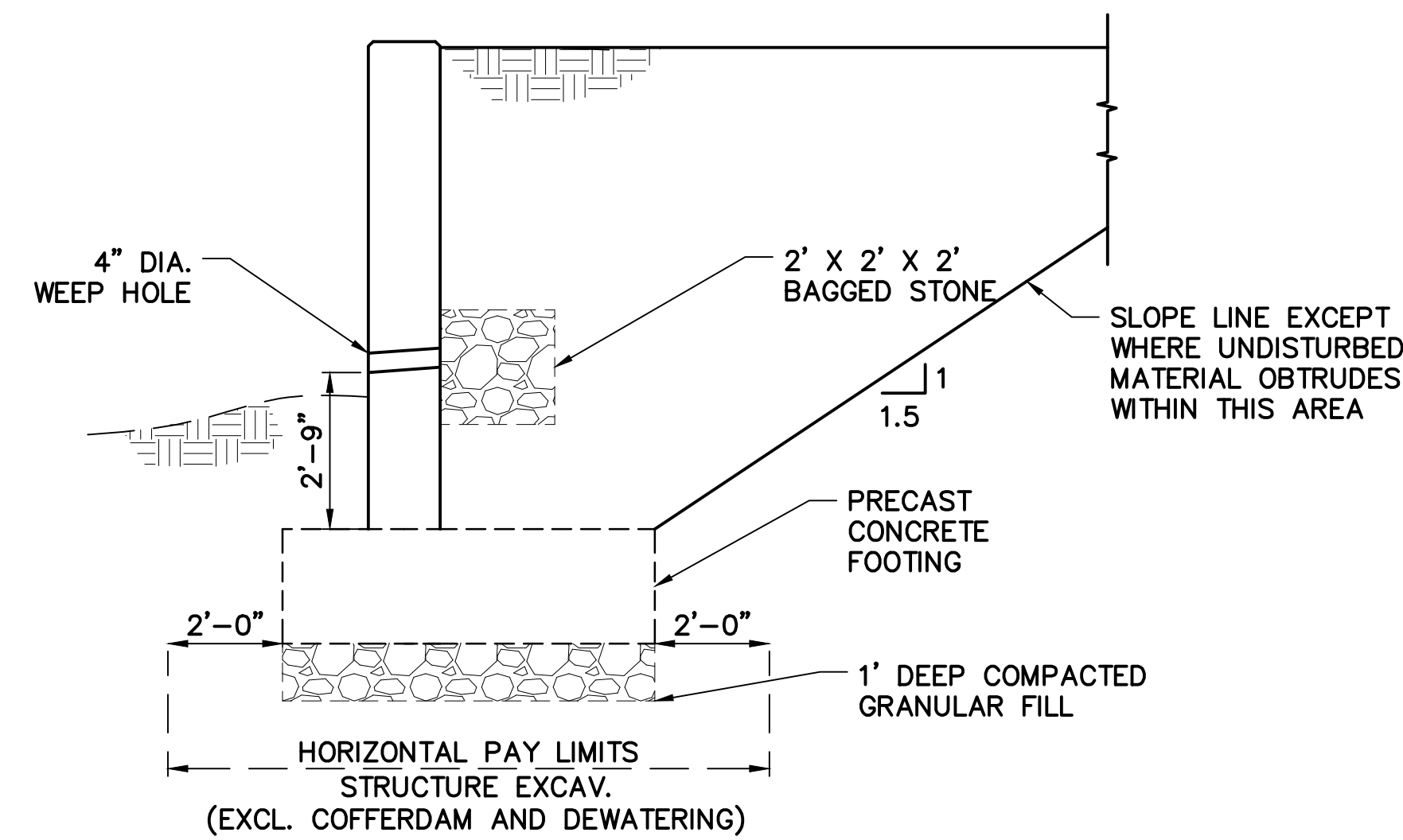
1. WEEPHOLES SHALL CONSIST OF 4" DIA. POLYVINYL CHLORIDE PLASTIC PIPE. THE MANUFACTURER SHALL DETERMINE THE AMOUNT AS WELL AS THE LOCATION OF THE WEEP HOLES. BAGGED STONE SHALL CONSIST OF FURNISHING AND PLACING CRUSHED STONE OR GRAVEL IN BURLAP BAGS AT INLET ENDS OF WEEP HOLES IN STRUCTURES TO THE DIMENSIONS INDICATED ON THE PLANS OR AS ORDERED BY THE ENGINEER. THE CRUSHED STONE OR GRAVEL SHALL CONFORM TO THE GRADING REQUIREMENTS ESTABLISHED IN THE FORM 816, ARTICLE M.01.01 FOR 2-INCH OR 1/2 INCH COARSE AGGREGATE OR A MIXTURE OF BOTH. ALL WORK ASSOCIATED WITH THE WEEP HOLES AND BAGGED STONE SHALL BE PAID FOR IN THE ITEM "PRECAST CONCRETE WINGWALL."
2. WINGWALLS SHALL BE BACKFILLED USING PERVIOUS STRUCTURE BACKFILL AT A SLOPE OF 1.5 HORIZONTAL TO 1 VERTICAL.
3. THE PRECAST WINGWALLS AND THE PRECAST FOOTINGS SHALL BE PAID FOR UNDER THE ITEM "PRECAST CONCRETE WINGWALL"
4. THE WINGWALL PARAPETS SHALL BE PAID FOR UNDER CLASS "F" CONCRETE AND DEFORMED STEEL BARS (EPOXY) COATED.
5. THE CONTRACTOR MAY OPT FOR A PRECAST WINGWALL PARAPET CONFORMING TO THE DIMENSIONS AND STANDARDS OF A CONNDOT STANDARD 42" PARAPET.
6. THE 3.5' HIGH CHAIN LINK FENCE SHALL BE ANCHORED TO THE WINGWALLS USING THE RECOMMENDED FASTENERS BY THE MANUFACTURER AS APPROVED BY THE ENGINEER.
7. SEE SHEET S1 FOR WINGWALL ELEVATIONS AND SHEET S2 FOR WINGWALL LAYOUT.
8. LEADING ENDS OF WINGWALL PARAPETS SHALL CONFORM TO CONNDOT BRIDGE STANDARD DETAILS 8.3.3A THROUGH D
9. BAGGED STONE SHALL BE PAID FOR UNDER THE ITEM PERVIOUS STRUCTURE BACKFILL.

BEARING RESISTANCE

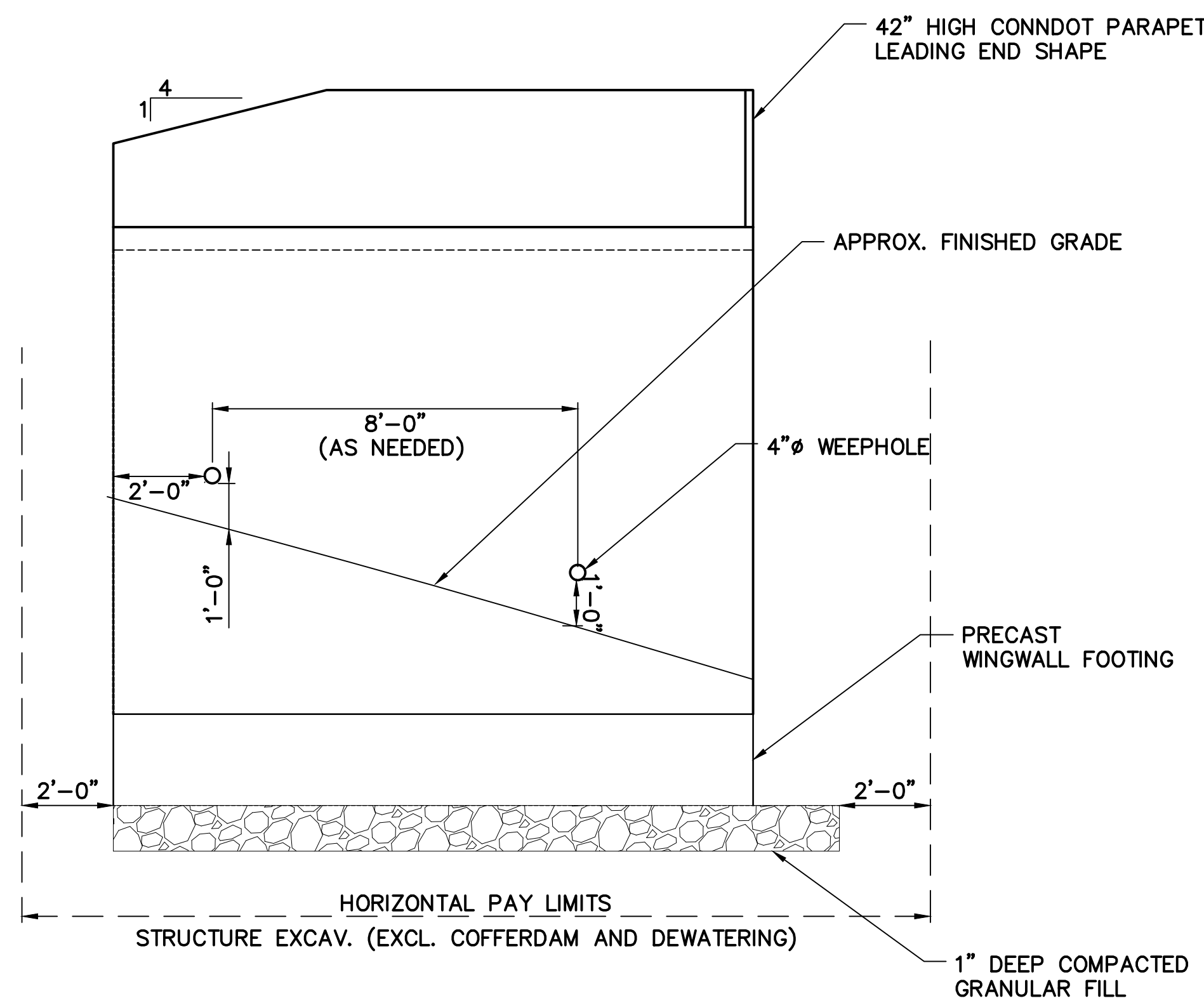
STRENGTH LIMIT STATE = 5.8 KSF
SERVICE LIMIT STATE = 7.0 KSF



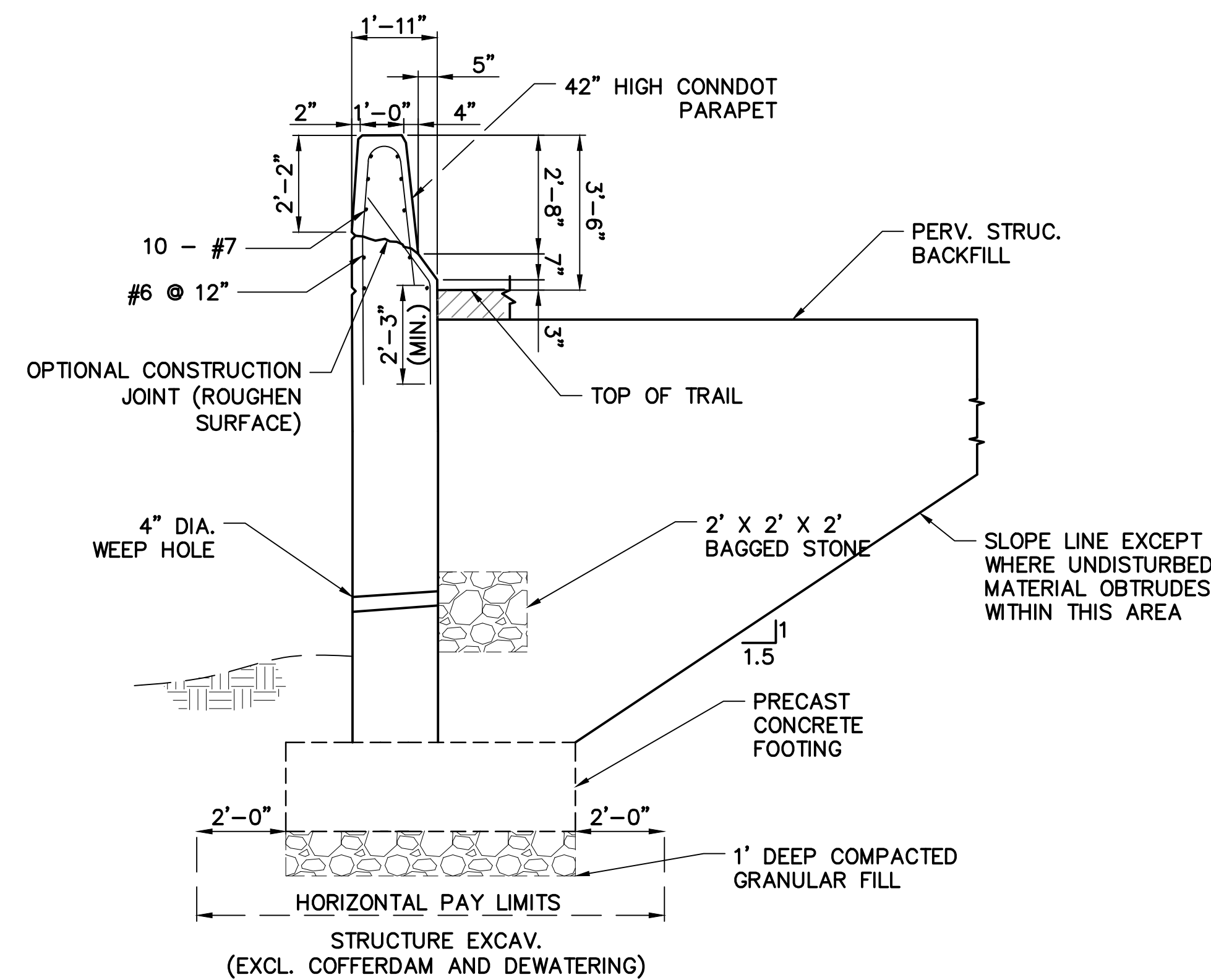
ELEVATION OF WINGWALL WITH FENCE (EAST SIDE)
SCALE: 3/8" = 1'-0"



SECTION OF WINGWALL WITH FENCE (EAST SIDE)
SCALE: 3/8" = 1'-0"



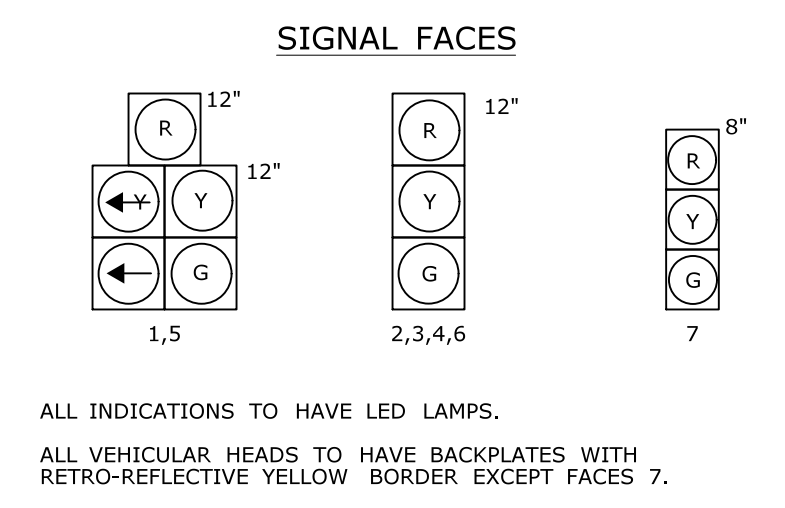
ELEVATION OF WINGWALL WITH PARAPET (WEST SIDE)
SCALE: 3/8" = 1'-0"



SECTION OF WINGWALL WITH PARAPET (WEST SIDE)
SCALE: 3/8" = 1'-0"

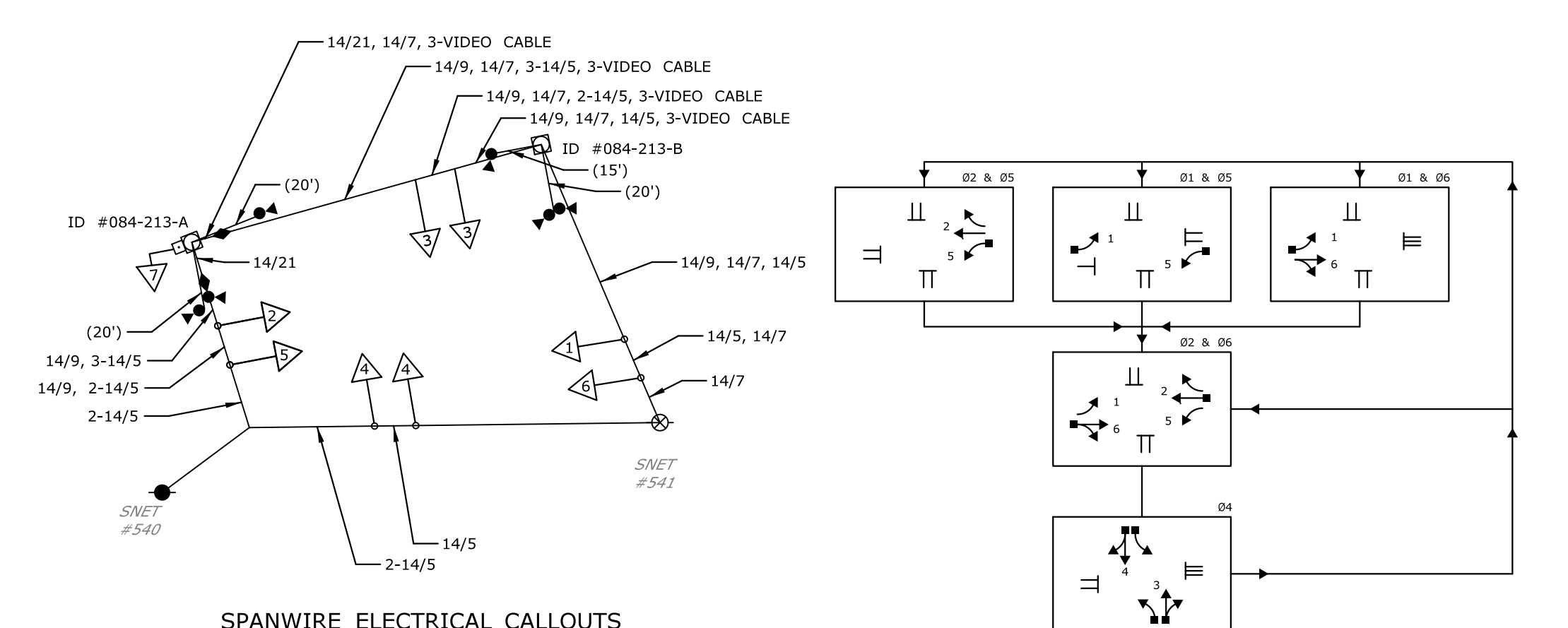
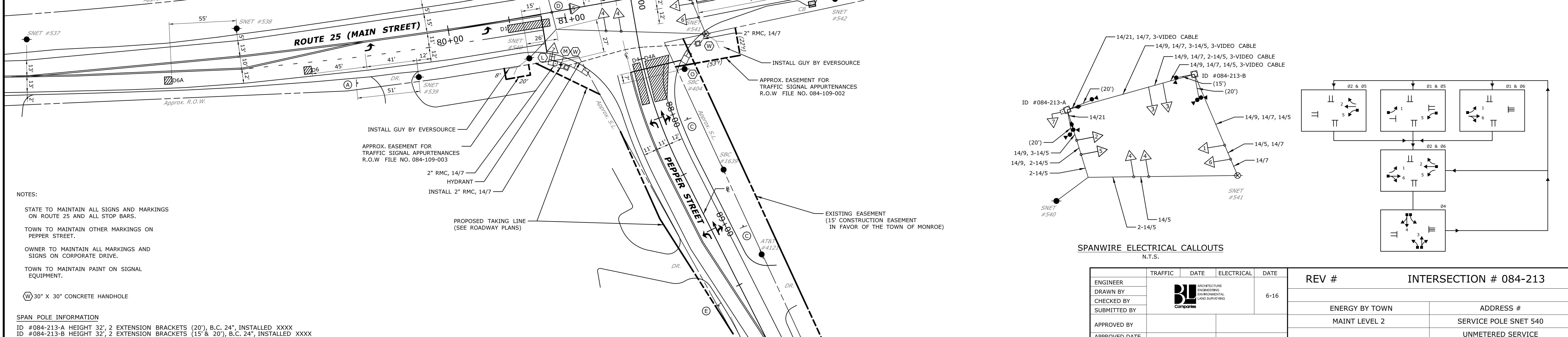
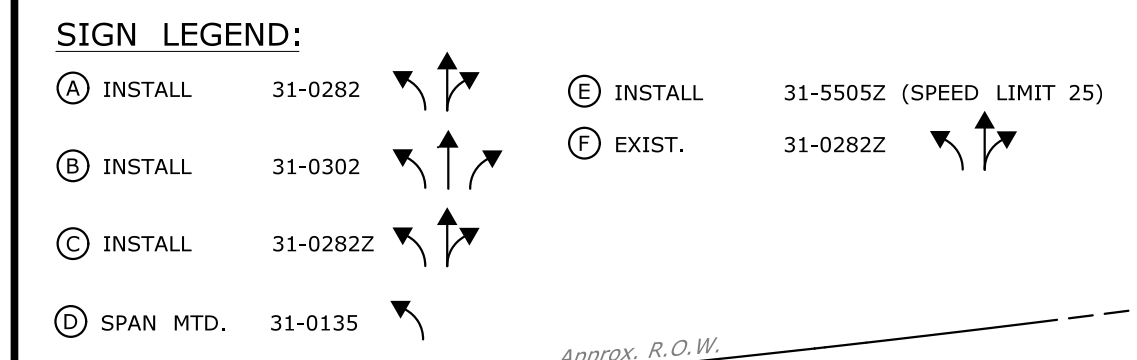
		MOVEMENT DIAGRAM																																
		PHASE 1				PHASE 2				PHASE 3				PHASE 4				PHASE 5				PHASE 6				PHASE 7				PHASE 8				
		NONE																																
F A C E #	FLASH	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL	GRN	CL	CL
	1	Y	←	←	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	2	Y	←	←	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	3	R	←	←	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	4	R	←	←	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	5	Y	←	←	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
	6	Y	←	←	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
7	R	←	←	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
I N T E R V A S	MIN GRN	5				15				7				5				15				15				15				15				
	WALK																																	
	PED CLR																																	
	VEH EXT	1.5				2.5				1.5				1.5				2.5				2.5				2.5								
	MAX 1	10				35				15				15				35				35				35								
	MAX 2	10				45				20				15				45				45				45								
	YELLOW	3.0				4.3				3.2				3.0				4.3				4.3				4.3								
	RED					1.0				1.9								1.0				1.9				1.9								
	ADD INIT																																	
	MAX INIT																																	
TBR																																		
TTR																																		
MIN GAP																																		
MODE	NON-LOCK				MIN RECALL				OFF				NON-LOCK				NON-LOCK				MIN RECALL				OFF				OFF					
INT START					THIS PHASE								THIS PHASE								THIS PHASE								THIS PHASE					

TECHNICAL NOTES		OFFICE RECORD	
STANDARD OVERLAP SKIP FEATURES APPLY		REV #	TIR #
FACE 1 ARROWS DRIVEN BY PHASE 1		SM # N/A	
FACE 1 G, Y, R DRIVEN BY PHASE 6		SIGNAL REVISED:	
FACE 5 ARROWS DRIVEN BY PHASE 5		REVISOR: [Signature]	
FACE 5 G, Y, R DRIVEN BY PHASE 2		REVISION: SIGNAL EQUIPMENT UNDER STATE PROJECT # 84-109	
FACE 6 ON TO OMIT PHASE 1			
PHASE 2 ON TO OMIT PHASE 1			
PHASE 6 ON TO OMIT PHASE 5			



- ### CONSTRUCTION NOTES:
- ALL TRAFFIC SIGNAL EQUIPMENT IS NEW.
 - REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISIONS.
 - REFER TO ROADWAY PLAN FOR ADDITIONAL INFORMATION.
 - STAKE ALL R.O.W. PRIOR TO EXCAVATION.
 - ANY PROPOSED REVISIONS TO THE LOCATION OF APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE DIVISION OF TRAFFIC ENGINEERING PRIOR TO INSTALLATION.
 - INSTALL CONTROLLER FOUNDATION AT STA. 80+78, 46' LEFT. CONCRETE PAD TO BE INSTALLED WITHIN ROW.
 - SPAN POLES WITH 2 SPAN ATTACHMENTS TO HAVE 2 SPAN CLAMPS
 - PAINT SPAN POLES, EXTENSION BRACKETS, PEDESTAL, TRAFFIC SIGNAL AND PEDESTRIAN HEADS, AND MOUNTING HARDWARE BLACK.
 - (H) INSTALL SPAN POLE FOUNDATION AT STA. 80+82, 38' LEFT.
 - (I) INSTALL SPAN POLE FOUNDATION AT STA. 81+85, 48' LEFT AND WITHIN ROW.
 - (L) INSTALL PEDESTAL FOUNDATION, PEDESTAL AND PUSH BUTTON ADJACENT TO LANDING AREA.
 - (M) CONSTRUCT 4c SIDEWALK RAMP AT LOCATION SHOWN WITH 5' SIDEWALK CONNECTING BOTH RAMP.
 - (N) CONSTRUCT TYPE 2a SIDEWALK RAMP & 4' SIDEWALK EXTENSION ADJACENT TO SPAN POLE AT LOCATION SHOWN.
 - (O) CONSTRUCT TYPE 4c SIDEWALK RAMP.
 - (W) INSTALL 30" X 30" HANDHOLE. ALL OTHERS TYPE II.
- COORDINATE AND SCHEDULE THE FOLLOWING WORK BY UTILITY COMPANIES:
- * FRONTIER TO INSTALL SNET #541 (50') AND EVERSOURCE TO INSTALL GUY.
 - * EVERSOURCE TO INSTALL GUY ON SNET #540.
 - * FRONTIER TO PROVIDE ANCHORS FOR GUYING.

IDENT	DETECTORS		SYSTEM LOC MASTER	COORDINATION TYPE: NONE			
	SIZE (WXL)	MODE		FUNCTION	PROGRAM TIME	DAYS	OFFSET
D1	6' X 34'	- VIDEO					
D2	6' X 6'	- VIDEO					
D2A	6' X 6'	- VIDEO		MAX 1	ALL OTHER TIMES		
D4	6' X 34'	- VIDEO		MAX 2	0700-0900	M-F	
D4A	10' X 22' X 40'	- VIDEO (8" DELAY)			1400-1800	M-F	
D4B	7' X 22' X 40'	- VIDEO (8" DELAY)					
D4C	6' X 40'	- VIDEO					
D5	6' X 34'	- VIDEO					
D6	6' X 6'	- VIDEO					
D6A	6' X 6'	- VIDEO					



NOTES:

- STATE TO MAINTAIN ALL SIGNS AND MARKINGS ON ROUTE 25 AND ALL STOP BARS.
- TOWN TO MAINTAIN OTHER MARKINGS ON PEPPER STREET.
- OWNER TO MAINTAIN ALL MARKINGS AND SIGNS ON CORPORATE DRIVE.
- TOWN TO MAINTAIN PAINT ON SIGNAL EQUIPMENT.
- (W) 30" X 30" CONCRETE HANDHOLE

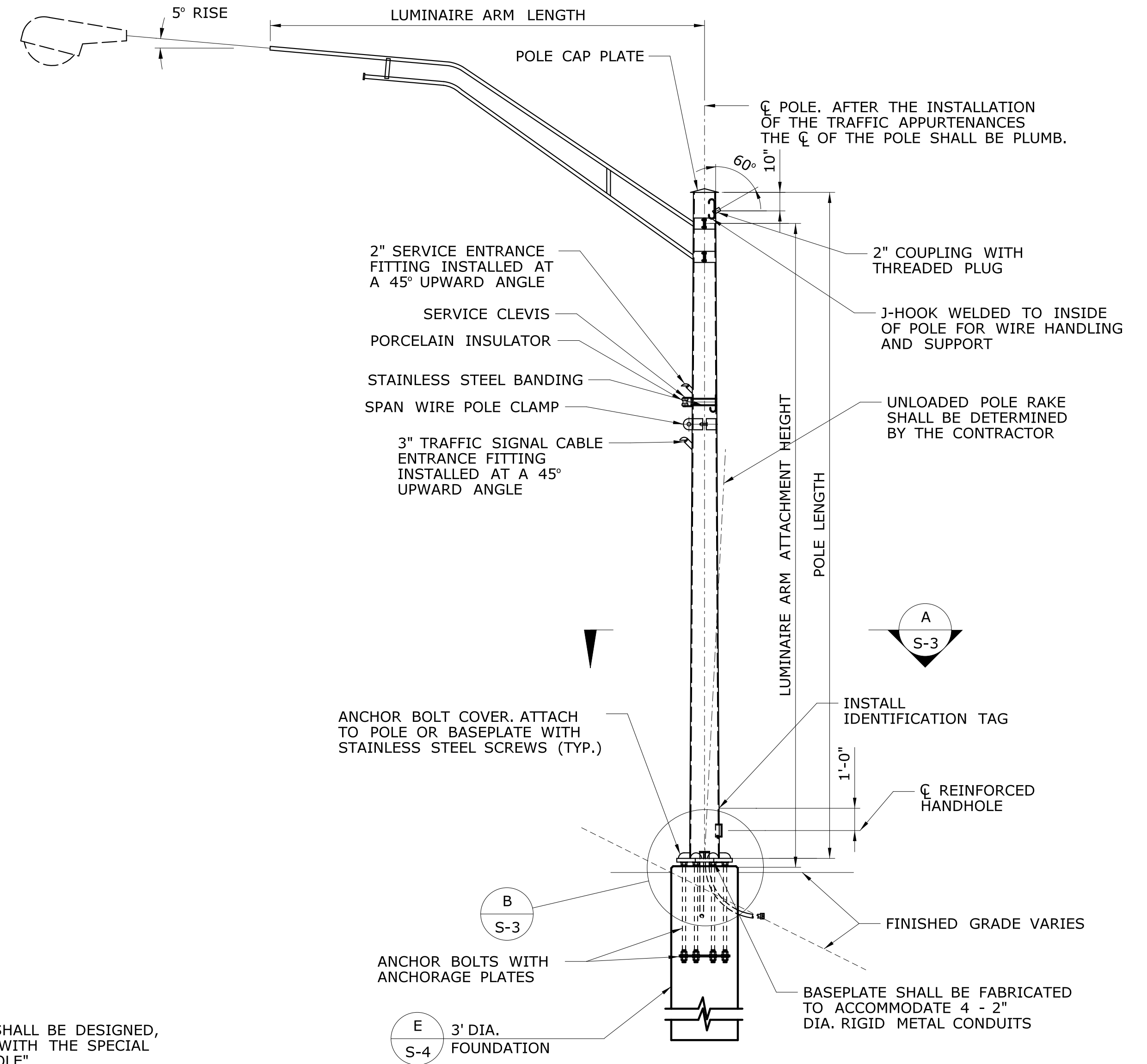
SPAN POLE INFORMATION

ID #084-213-A HEIGHT 32', 2 EXTENSION BRACKETS (20'), B.C. 24", INSTALLED XXXX
 ID #084-213-B HEIGHT 32', 2 EXTENSION BRACKETS (15' & 20'), B.C. 24", INSTALLED XXXX

		STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	
PROJECT NO. 84-109 DRAWING NO. TCS-1 SHEET NO.		MONROE TRAFFIC CONTROL SIGNAL PLAN	
ENGINEER: [Signature] DRAWN BY: [Signature] CHECKED BY: [Signature] SUBMITTED BY: [Signature] APPROVED BY: [Signature] APPROVED DATE:		DATE: 6-16 ELECTRICAL: [Signature] DATE:	
ROUTE 25 (MAIN STREET) AT PEPPER STREET AND CORPORATE DRIVE		REV # INTERSECTION # 084-213 MAINT LEVEL 2 ADDRESS # SERVICE POLE SNET 540 UNMETERED SERVICE	

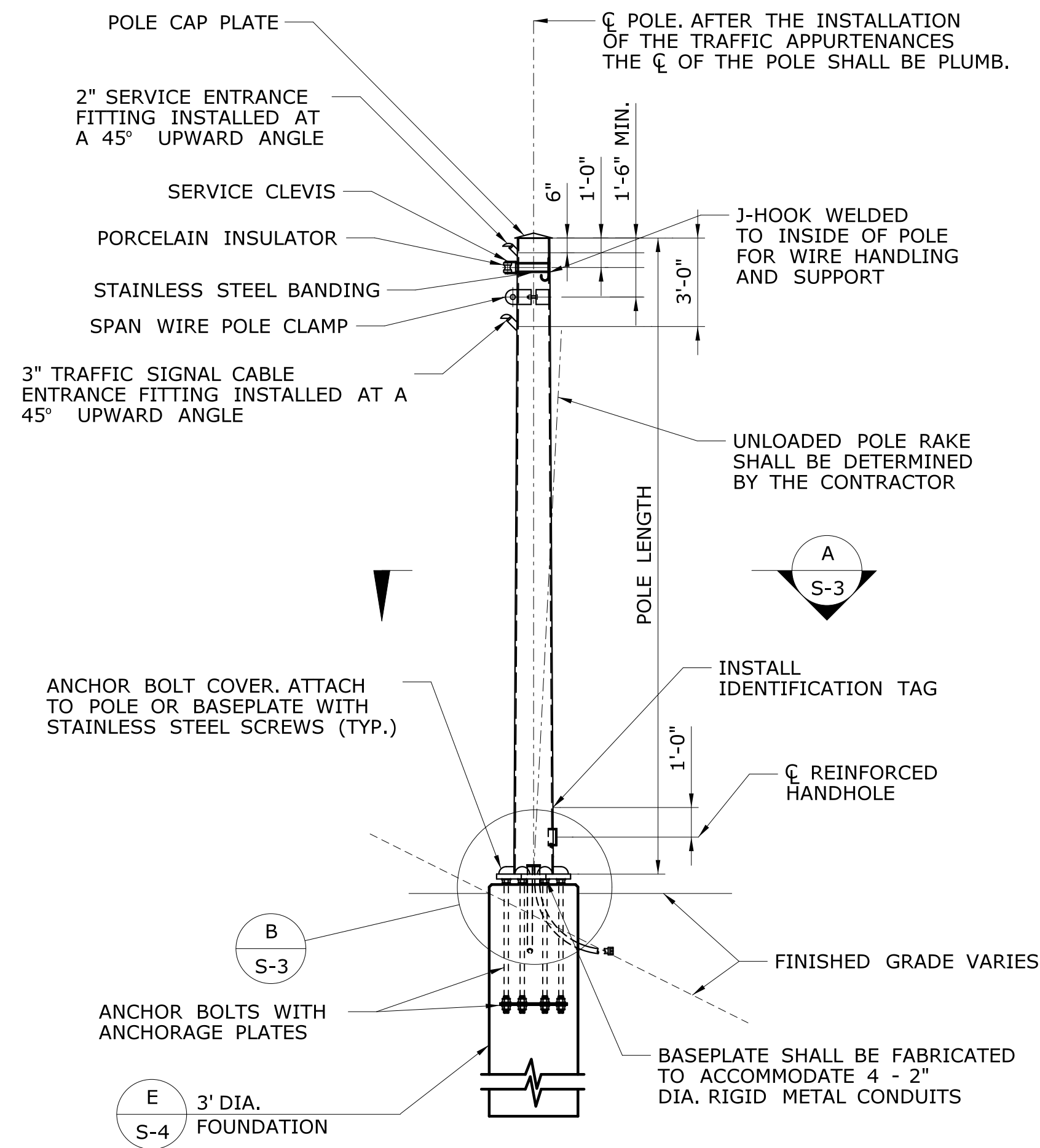
DATE PLOTTED : 6/26/2019 G:\U08512\12c\12C4326\DCN\Traffic\TR_MSH_TCS_084_213_12C4326.dgn

SCALE 1" = 40'



**ELEVATION
COMBINATION SPAN POLE**

SCALE: 1/4" = 1'-0"



**ELEVATION
SPAN POLE**

SCALE: 1/4" = 1'-0"

SPAN POLE NOTES

THE SPAN POLE, INCLUDING THE ANCHORAGE TO THE FOUNDATION, SHALL BE DESIGNED, FABRICATED AND INSTALLED BY THE CONTRACTOR, IN ACCORDANCE WITH THE SPECIAL PROVISION "XX STEEL SPAN POLE" OR "COMBINATION STEEL SPAN POLE".

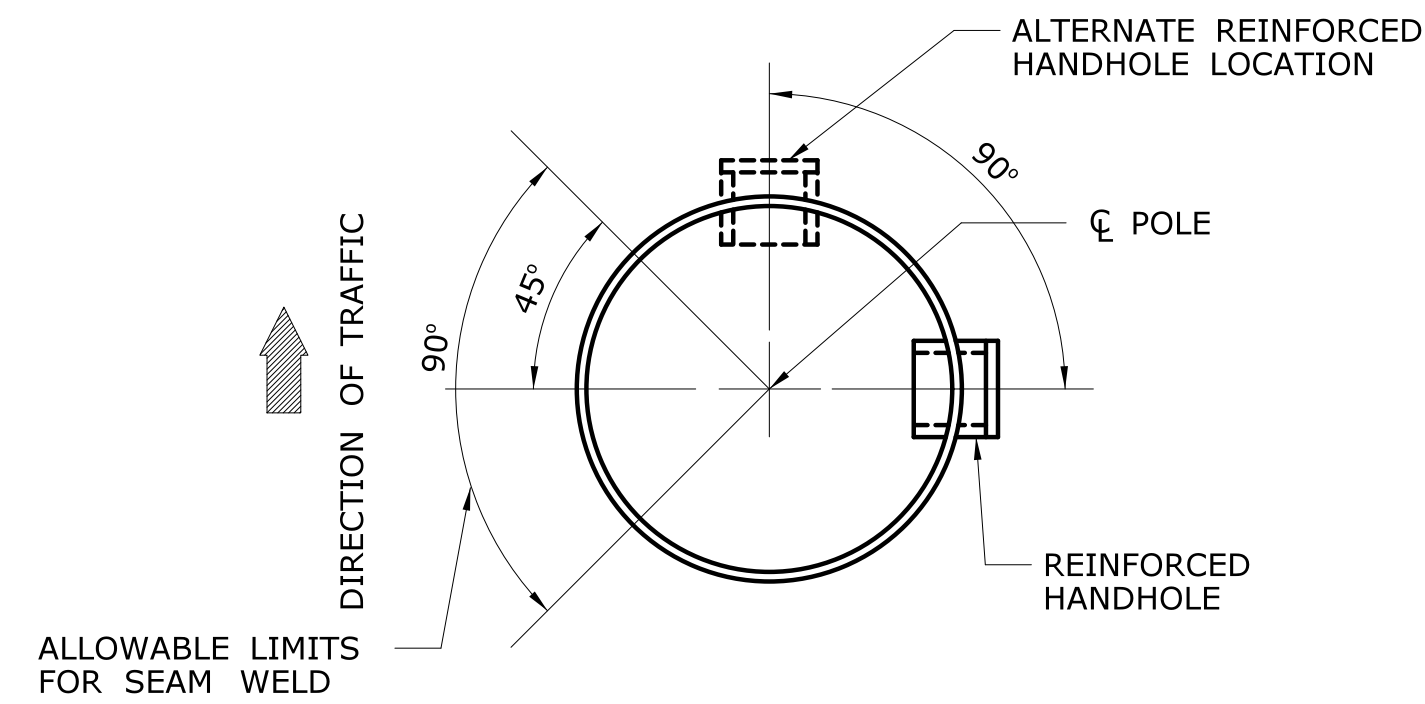
THE DIMENSIONS OF THE SPAN POLE AND DETAILS OF THE TRAFFIC APPURTENANCES SUPPORTED BY THE SPAN POLE ARE SHOWN ON THE TRAFFIC SIGNAL PLANS. THE POLE LENGTH AND THE ATTACHMENT HEIGHTS SHALL BE VERIFIED BY THE CONTRACTOR BASED ON THE FINISHED GRADE AT THE SITE, TOP OF FOUNDATION ELEVATION, THE LOCATIONS OF OVERHEAD UTILITY CABLES AND THE TRAFFIC APPURTENANCE MOUNTING HEIGHTS. IF THE POLE LENGTH IS INADEQUATE, THE CONTRACTOR SHALL NOTIFY THE ENGINEER.

THE SPAN POLE SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, INCLUDING THE LATEST INTERIM SPECIFICATIONS, AS AMENDED BY THE SPECIAL PROVISION "XX STEEL SPAN POLE" OR "COMBINATION STEEL SPAN POLE".

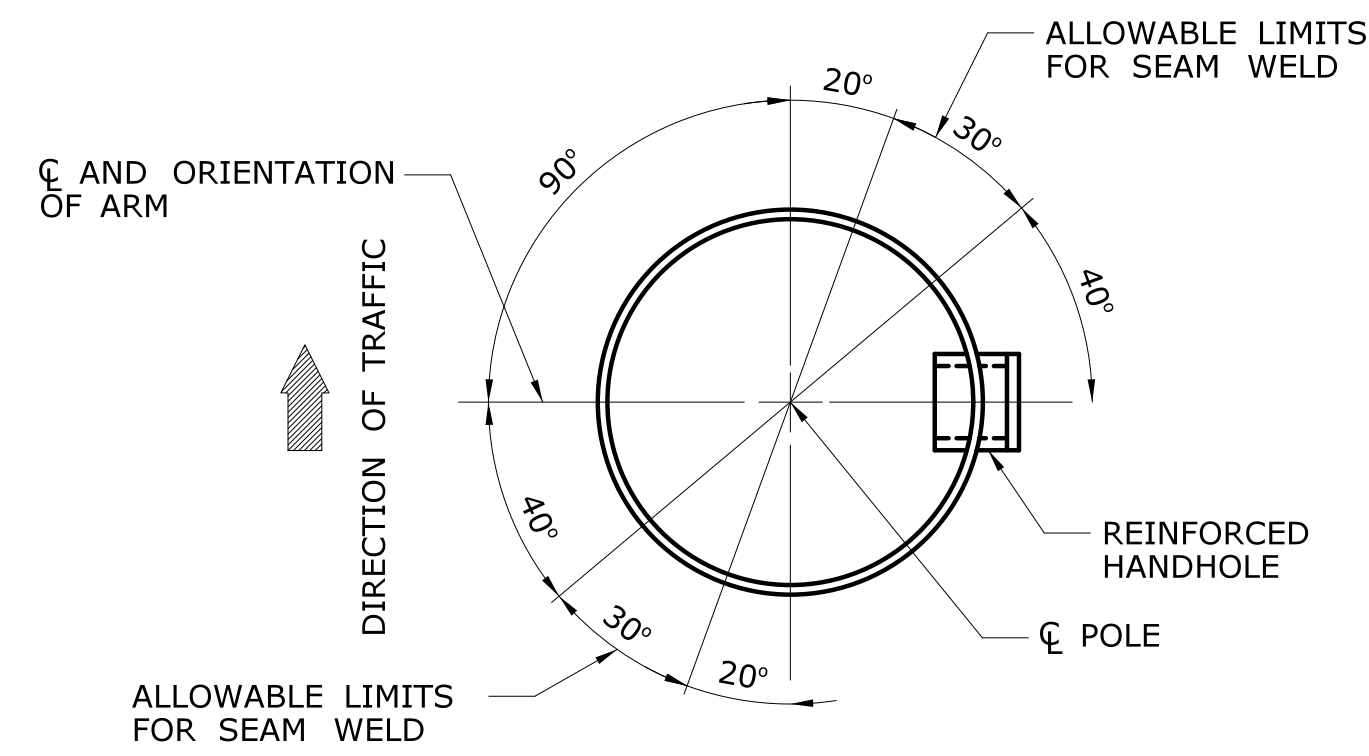
THE SPAN POLE SHALL BE DESIGNED FOR THE LOAD EFFECTS DUE TO THE SPAN WIRE(S) ATTACHED TO THE POLE AND ALL THE TRAFFIC APPURTENANCES (SIGNALS, SIGNS, LUMINAIRES, CAMERAS, ETC.) ATTACHED TO THE SPAN WIRE AND POLE. THE LOAD EFFECT DUE TO THE SPAN WIRE, RESULTING FROM THE ATTACHED APPURTENANCES, WILL NOT BE PROVIDED AND SHALL BE DETERMINED BY THE CONTRACTOR. THE SPAN POLE SHALL ALSO BE DESIGNED FOR THE LOAD EFFECTS FROM FUTURE TRAFFIC APPURTENANCES ARRANGED, POSITIONED AND LOCATED AS SHOWN ON THE PLANS. THE SPAN POLE SHALL BE DESIGNED FOR LOAD EFFECTS DURING ALL STAGES OF CONSTRUCTION THAT MAY EXIST DURING THE PROJECT UNDER WHICH THE SPAN POLE ARE INSTALLED.

THE SPAN POLE SHALL BE DESIGNED TO SUPPORT TRAFFIC APPURTENANCES WITH PROPERTIES NO LESS THAN THOSE SHOWN IN THE TABLE ENTITLED "TRAFFIC APPURTENANCE PROPERTIES - MINIMUM DESIGN VALUES".

THE SPAN POLE SHALL BE DESIGNED TO SUPPORT A SPAN WIRE WITH A SAG NO GREATER THAN 5% OF THE SPAN.

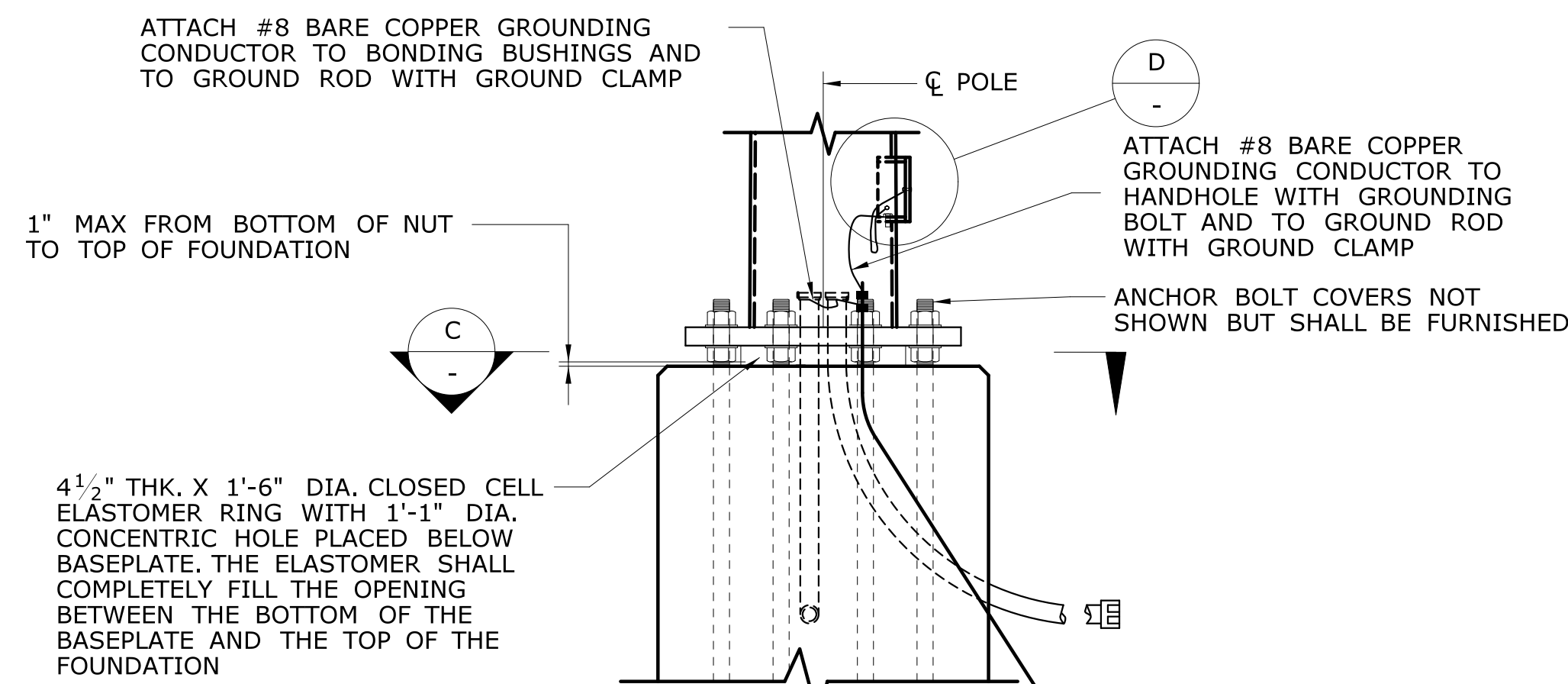


POLE WITH 1 SEAM WELD

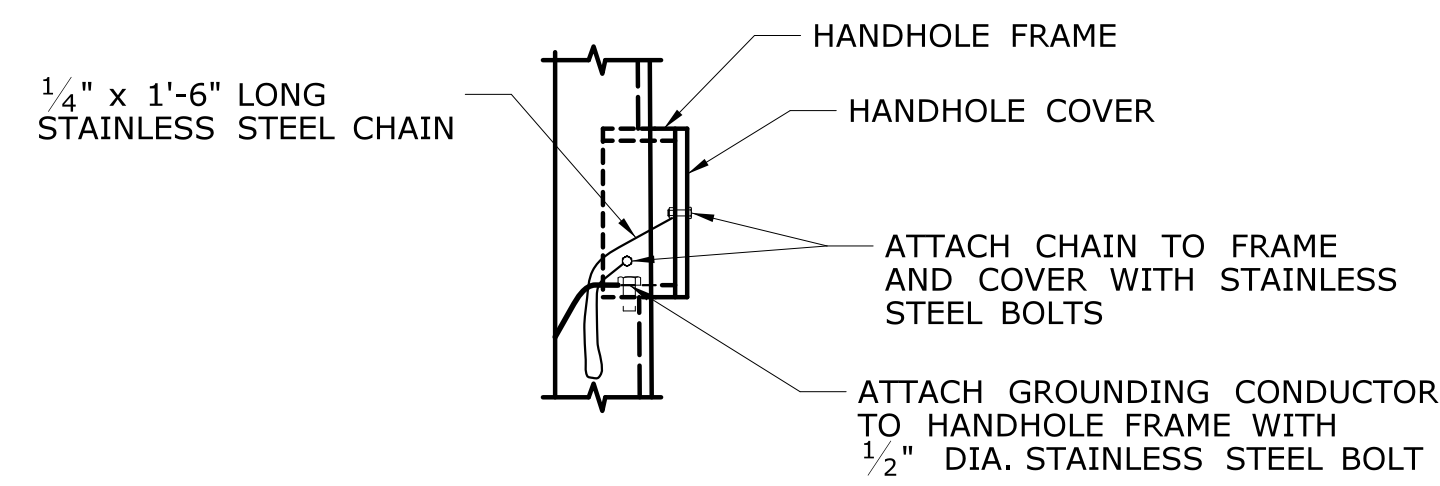


POLE WITH 2 SEAM WELDS

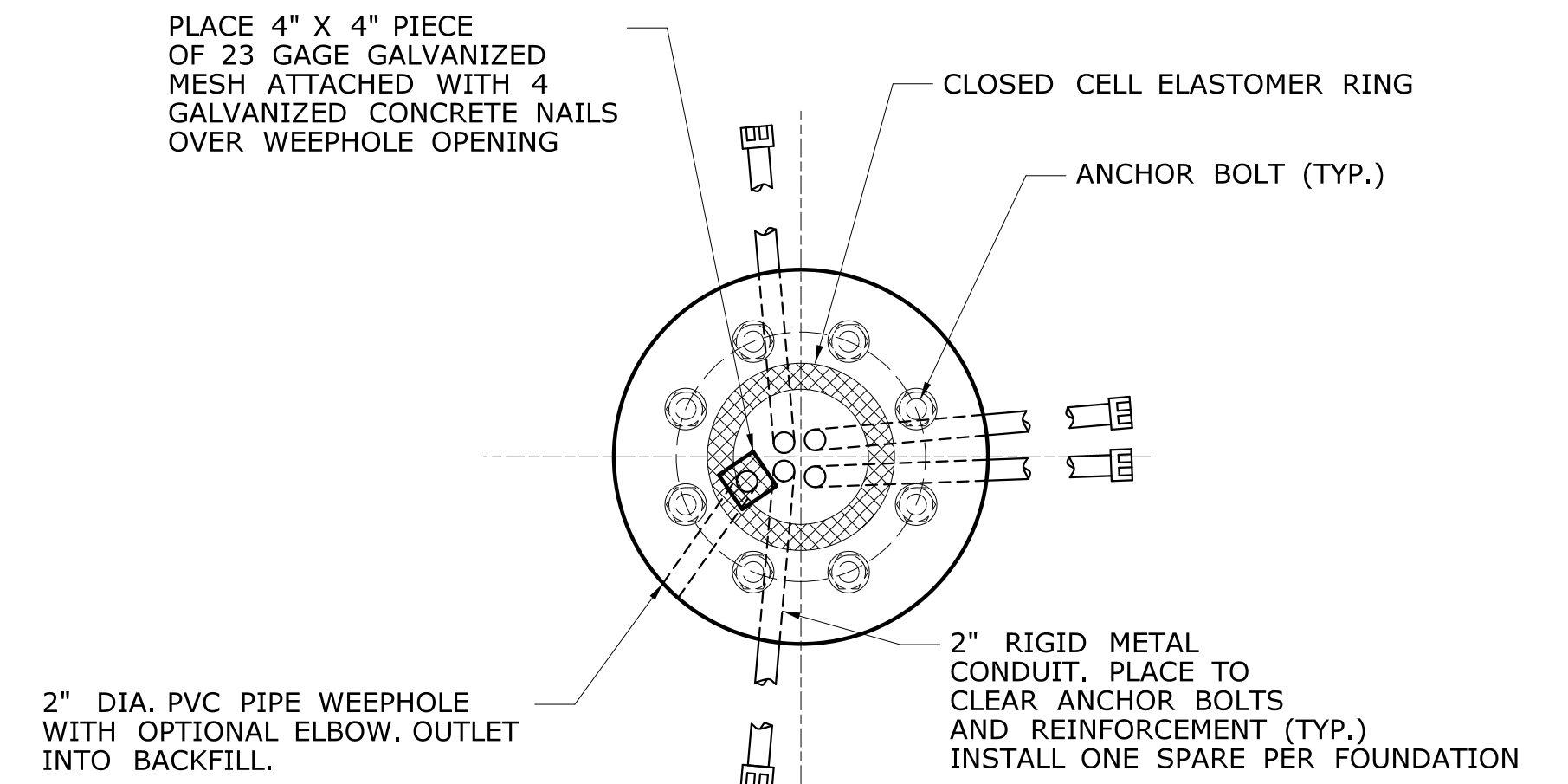
SECTION A
SCALE: 1 1/2" = 1'-0"



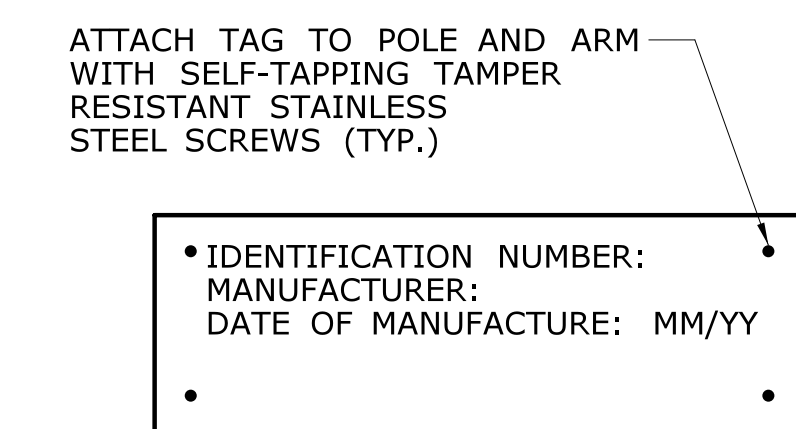
DETAIL B
SCALE: 3/4" = 1'-0"



DETAIL D
SCALE: 1 1/2" = 1'-0"



SECTION C
SCALE: 3/4" = 1'-0"



IDENTIFICATION TAG
NTS

**TRAFFIC APPURTENANCE PROPERTIES
MINIMUM DESIGN VALUES**

WEIGHT, INCLUDING MOUNTING HARDWARE	65 LBS	80 LBS	95 LBS	105 LBS	4 LBS/SQ.FT.
TOTAL SURFACE AREA	28.04 SQ. FT.	35.46 SQ. FT.	45.16 SQ. FT.	41.04 SQ. FT.	BASED ON PANEL DIMENSIONS
PROJECTED AREA, FRONT FACE	8.62 SQ. FT.	10.91 SQ. FT.	13.34 SQ. FT.	13.72 SQ. FT.	BASED ON PANEL DIMENSIONS

NOTES:

THE TABULATED VALUES ARE THE MINIMUM VALUES THAT SHALL BE USED FOR THE DESIGN.

SPAN POLES SHALL BE DESIGNED ASSUMING ALL TRAFFIC SIGNALS ARE COMPOSED OF 12" DIAMETER SECTIONS WITH BACKPLATES.

THE PROJECTED FRONT FACE AREA IS IN A PLANE PARALLEL TO THE PLANE FORMED BY THE SPAN WIRE AND THE POLE.

IF MULTIPLE APPURTENANCES ARE ATTACHED AT THE SAME LOCATION, THE MINIMUM DESIGN VALUE SHALL BE NO LESS THAN THE SUM OF THE CORRESPONDING TRAFFIC APPURTENANCE PROPERTIES.

FOR TRAFFIC APPURTENANCES NOT SHOWN, THE PROPERTIES SHALL BE DETERMINED BY THE CONTRACTOR AND SUBMITTED FOR REVIEW WITH THE WORKING DRAWING SUBMITTAL.

REVISIONS	No.	Date	Desc.
Designed	YL		
Drawn	MS		
Checked			
Approved			
Scale	1/4" = 1'		
Project No.	12C4326		
Date	6/26/2019		
CAD File:	TBR04C0213_SB_S2.dgn		
Title	SPAN POLE DETAILS		
Sheet No.	SP-2		

TEMPORARY SIGNAGE LEGEND

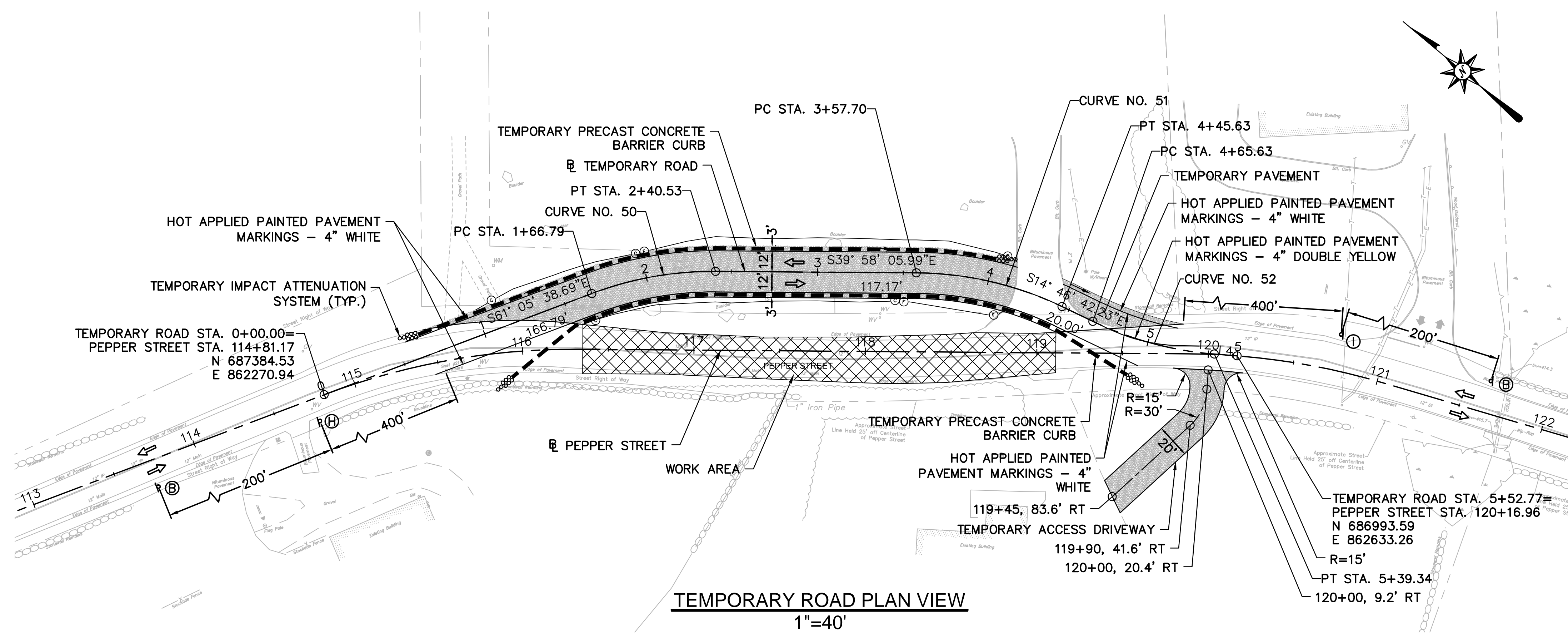
- (B) 80-9603
- (H) 80-9427
- (I) 80-9431

LEGEND

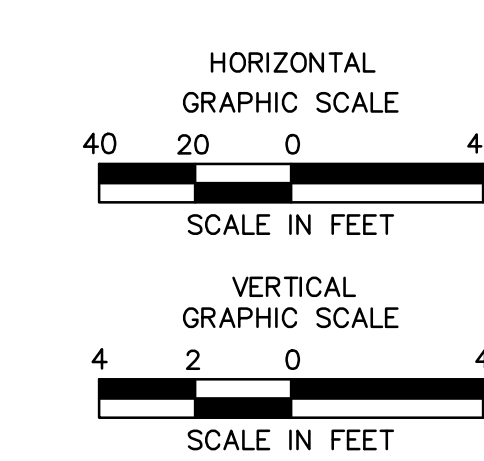
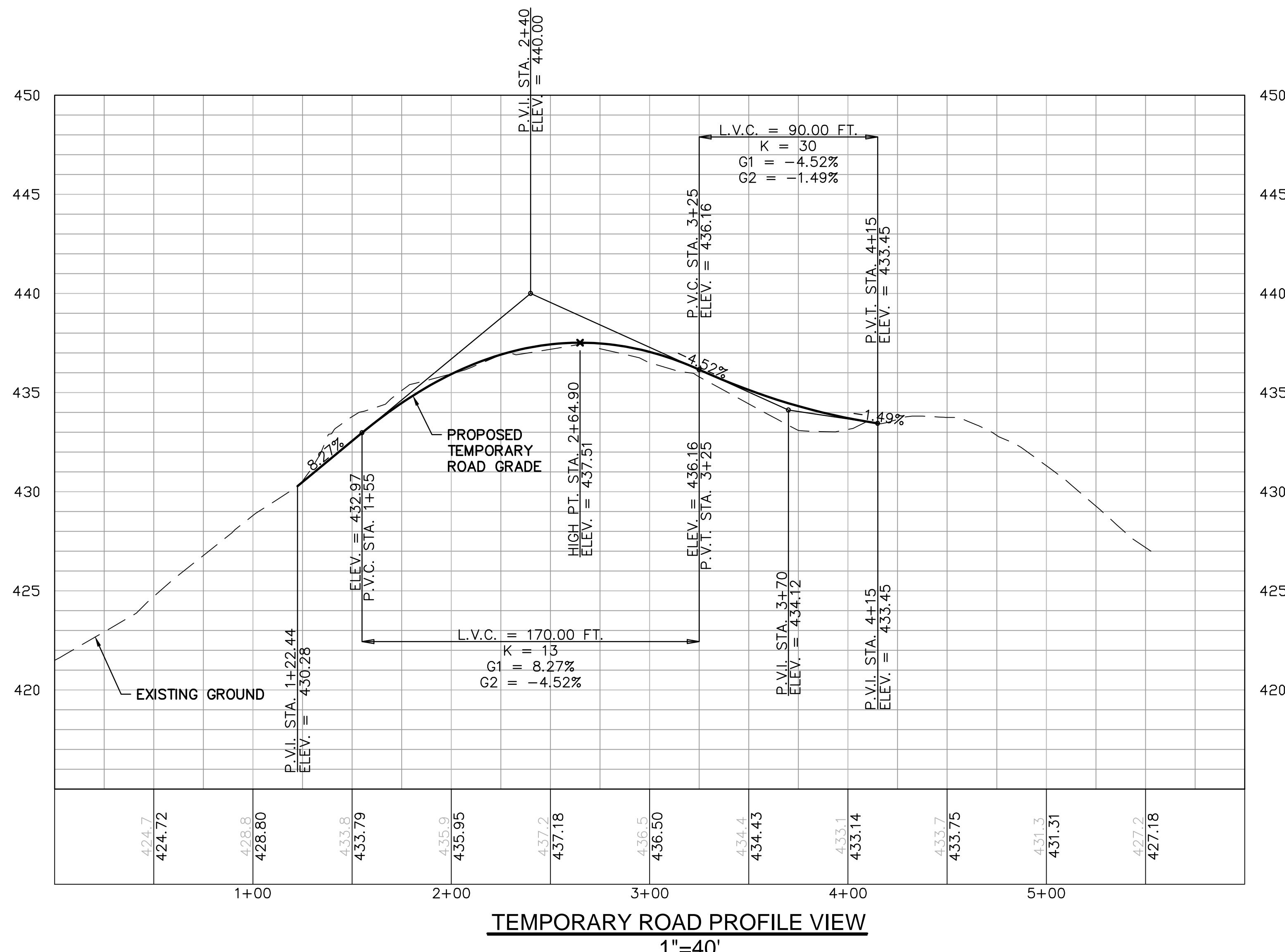
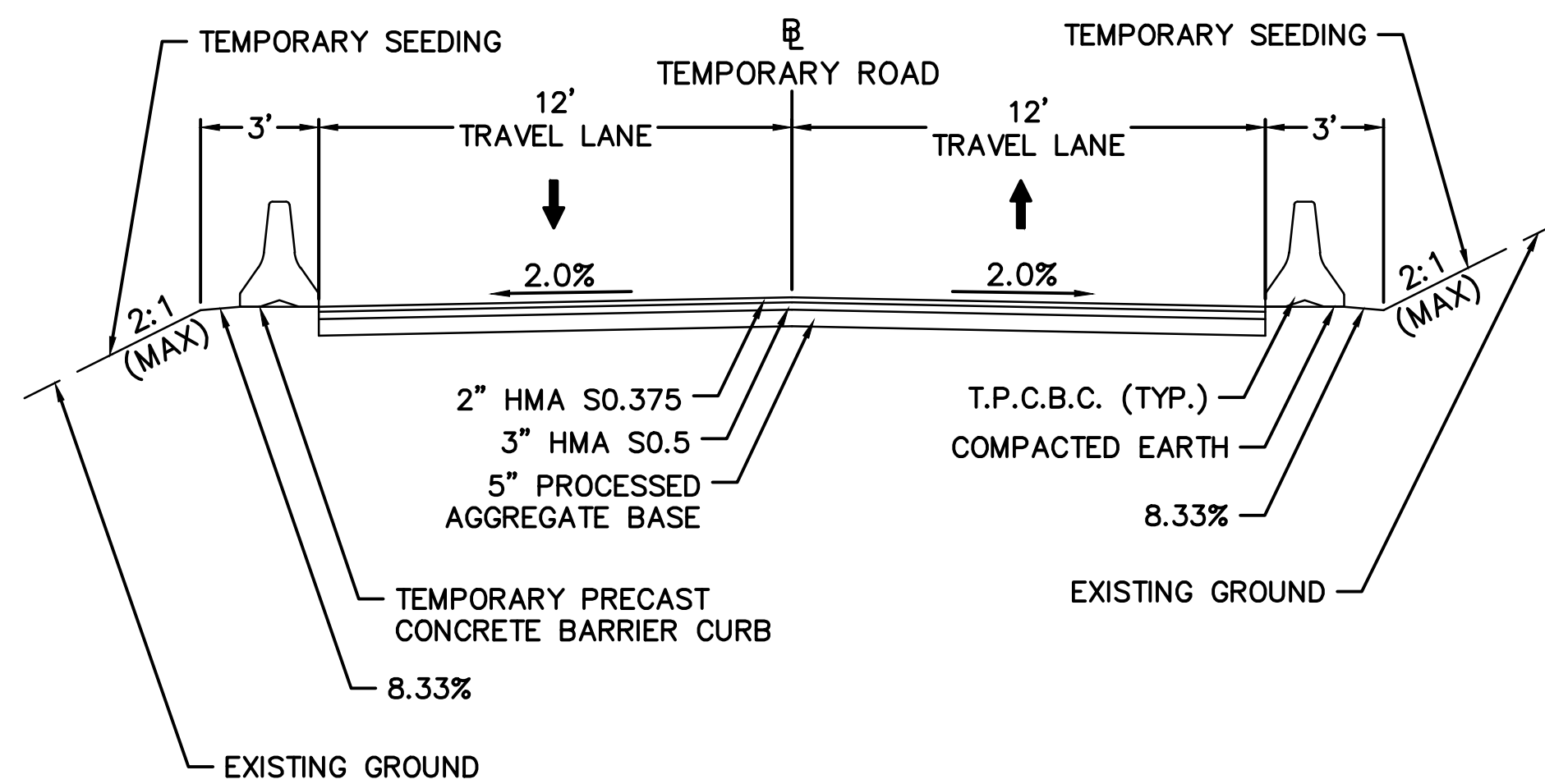
- FULL DEPTH PAVEMENT RECONSTRUCTION / PROPOSED WIDENING
- WORK AREA

NOTES:

1. ALL EXISTING PAVEMENTS MARKINGS THAT CONFLICT SHALL BE REMOVED.

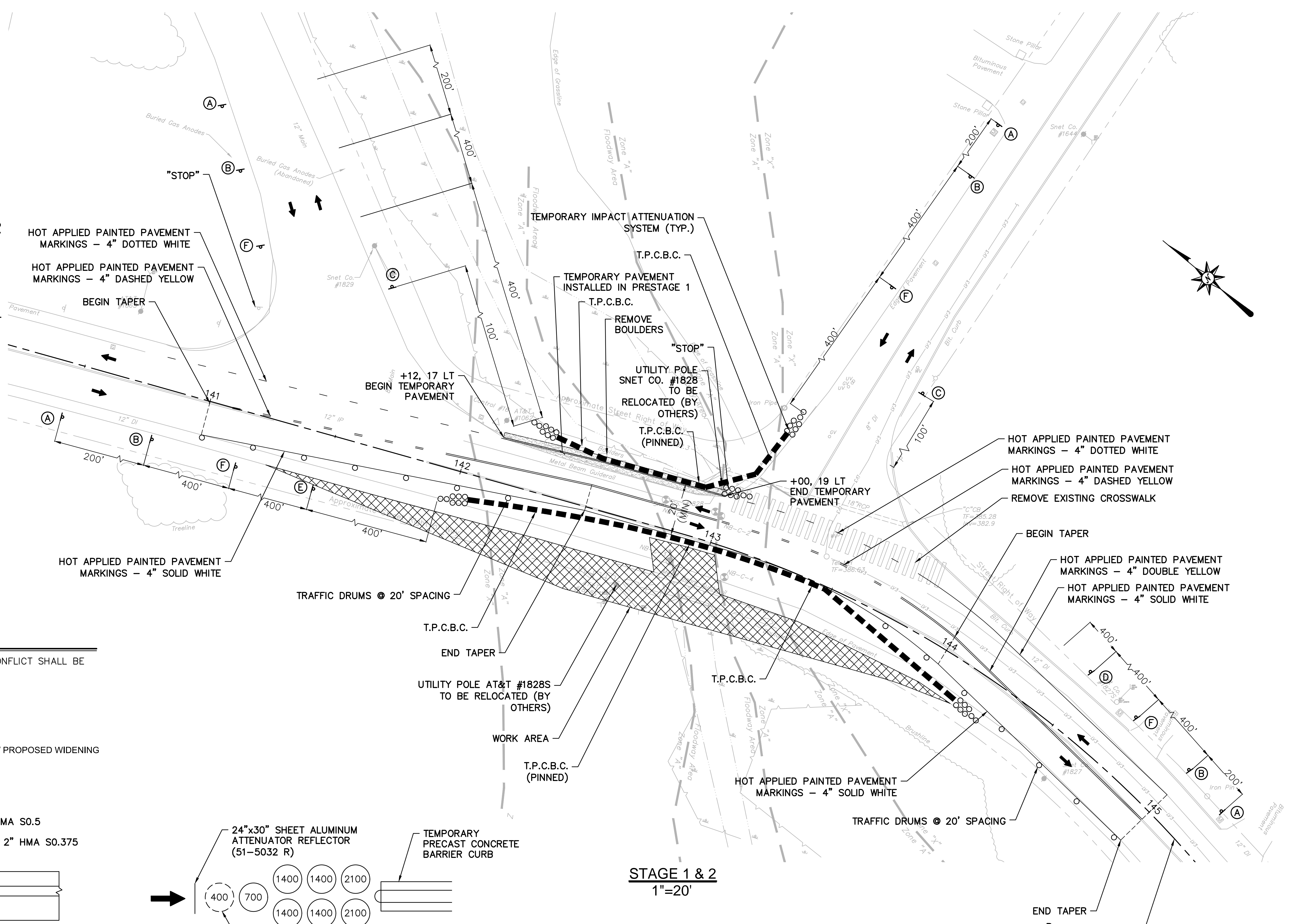


CURVE DATA							
CURVE NO.		NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
CURVE NO. 50	PC	687303.91	862416.95	S50° 31' 52.34"E	200.0'	37.29'	73.7'
	PI	687285.88	862449.60				
	PT	687257.30	862473.56				
CURVE NO. 51	PC	687167.50	862548.82	S27° 22' 24.11"E	200.0'	44.69'	87.9'
	PI	687133.25	862577.52				
	PT	687090.04	862588.92				
CURVE NO. 52	PC	687070.71	862594.02	S25° 20' 12.41"E	200.0'	37.28'	73.7'
	PI	687034.66	862603.53				
	PT	687004.46	862625.39				



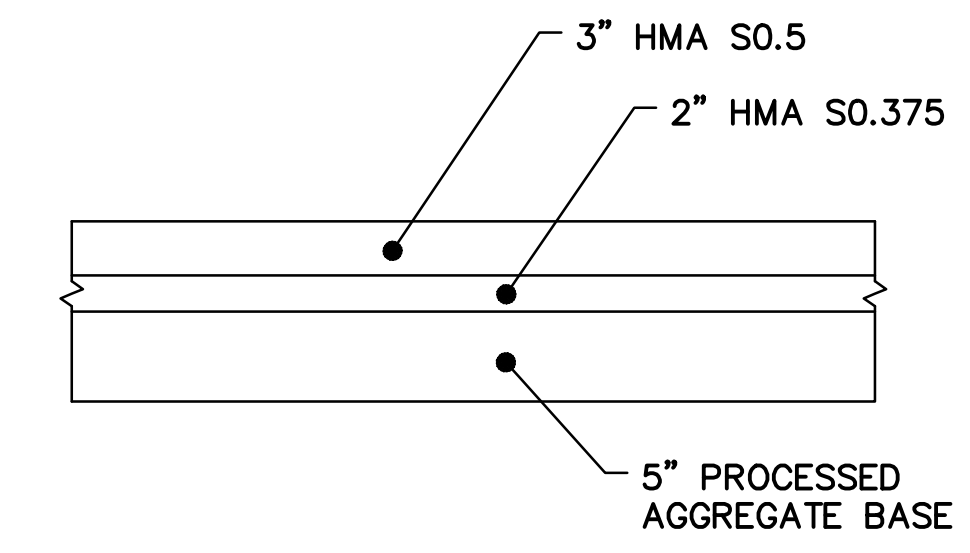
TEMPORARY SIGNAGE LEGEND

- (A) ROAD WORK AHEAD FINES DOUBLED 31-1906
- (B) ROAD WORK AHEAD 80-9603
- (C) END ROAD WORK 80-9612
- (D) 80-9056R
- (E) 80-9056L
- (F) ROAD NARROWS 80-9941

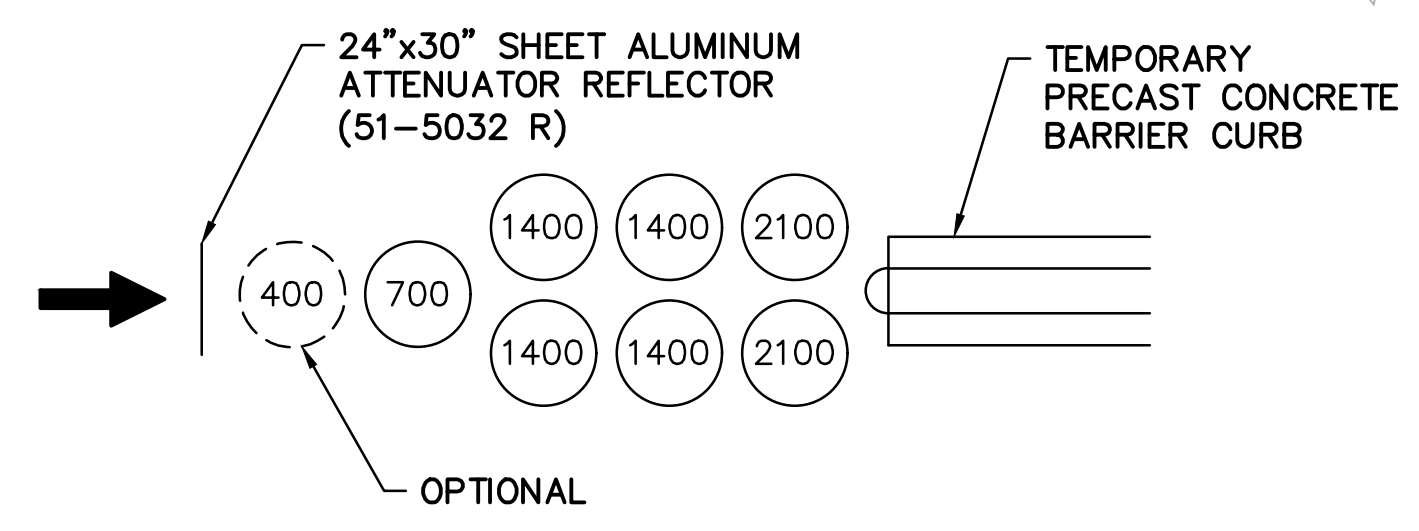


NOTES:
1. ALL EXISTING PAVEMENTS MARKINGS THAT CONFLICT SHALL BE REMOVED.

- LEGEND**
- FULL DEPTH PAVEMENT RECONSTRUCTION / PROPOSED WIDENING
 - WORK AREA

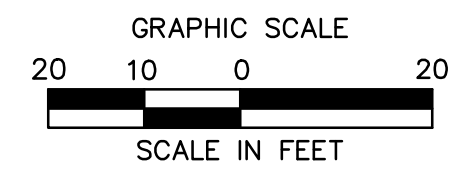


TEMPORARY PAVEMENT DETAILS



TEMPORARY IMPACT ATTENUATOR SYSTEM - TYPE A

STAGE 1 & 2
1"=20'

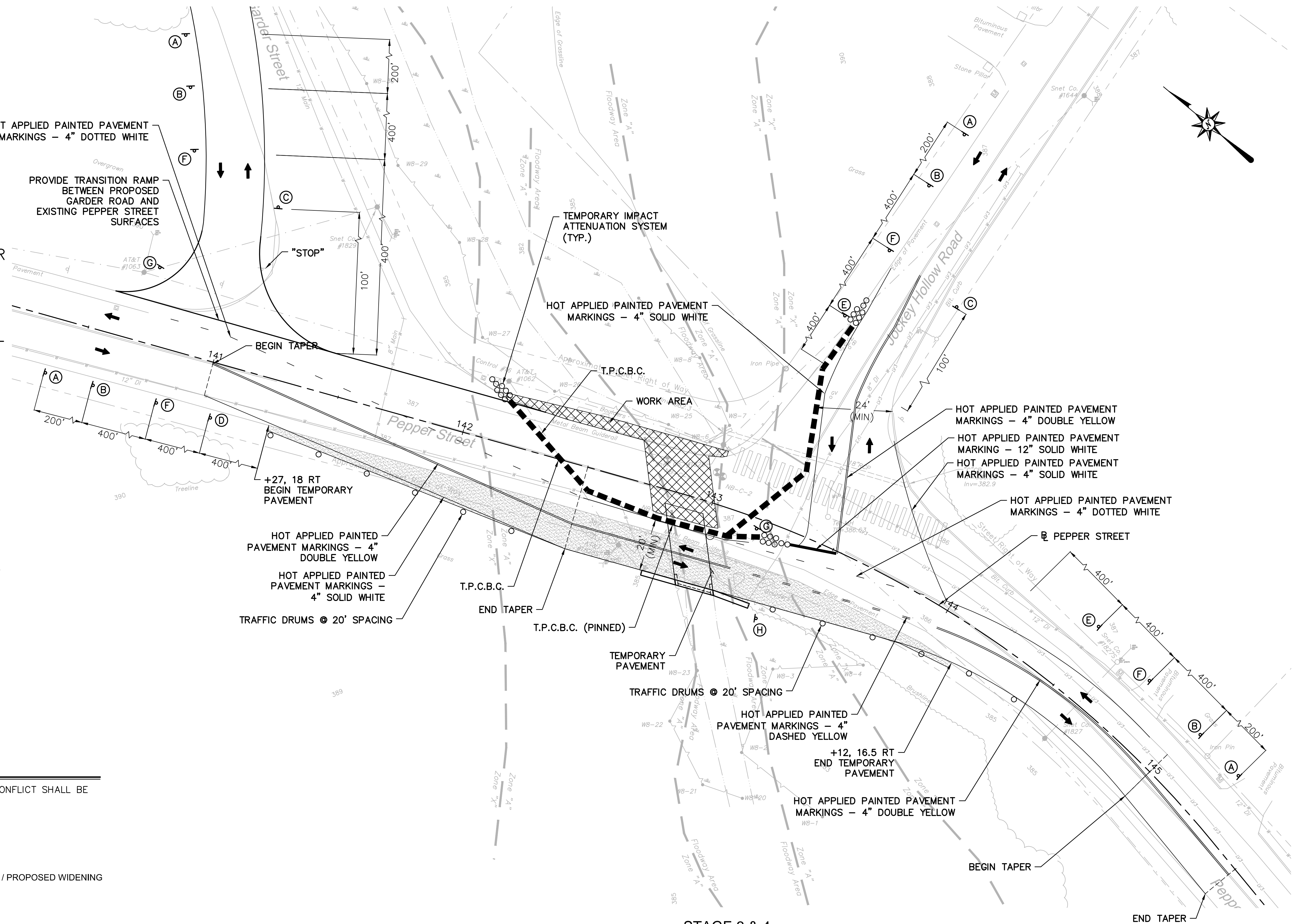


TEMPORARY SIGNAGE LEGEND

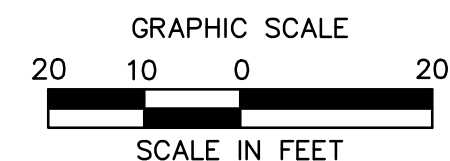
- (A) ROAD WORK AHEAD FINES DOUBLED 31-1906
- (B) ROAD WORK AHEAD 80-9603
HOT APPLIED PAINTED PAVEMENT MARKINGS - 4" DOTTED WHITE
- (C) END ROAD WORK 80-9612
PROVIDE TRANSITION RAMP BETWEEN PROPOSED GARDER ROAD AND EXISTING PEPPER STREET SURFACES
- (D) 80-9056R
- (E) 80-9056L
- (F) ROAD NARROWS 80-9941
- (G) STOP 31-0552
- (H) 80-9427

NOTES:
1. ALL EXISTING PAVEMENTS MARKINGS THAT CONFLICT SHALL BE REMOVED.

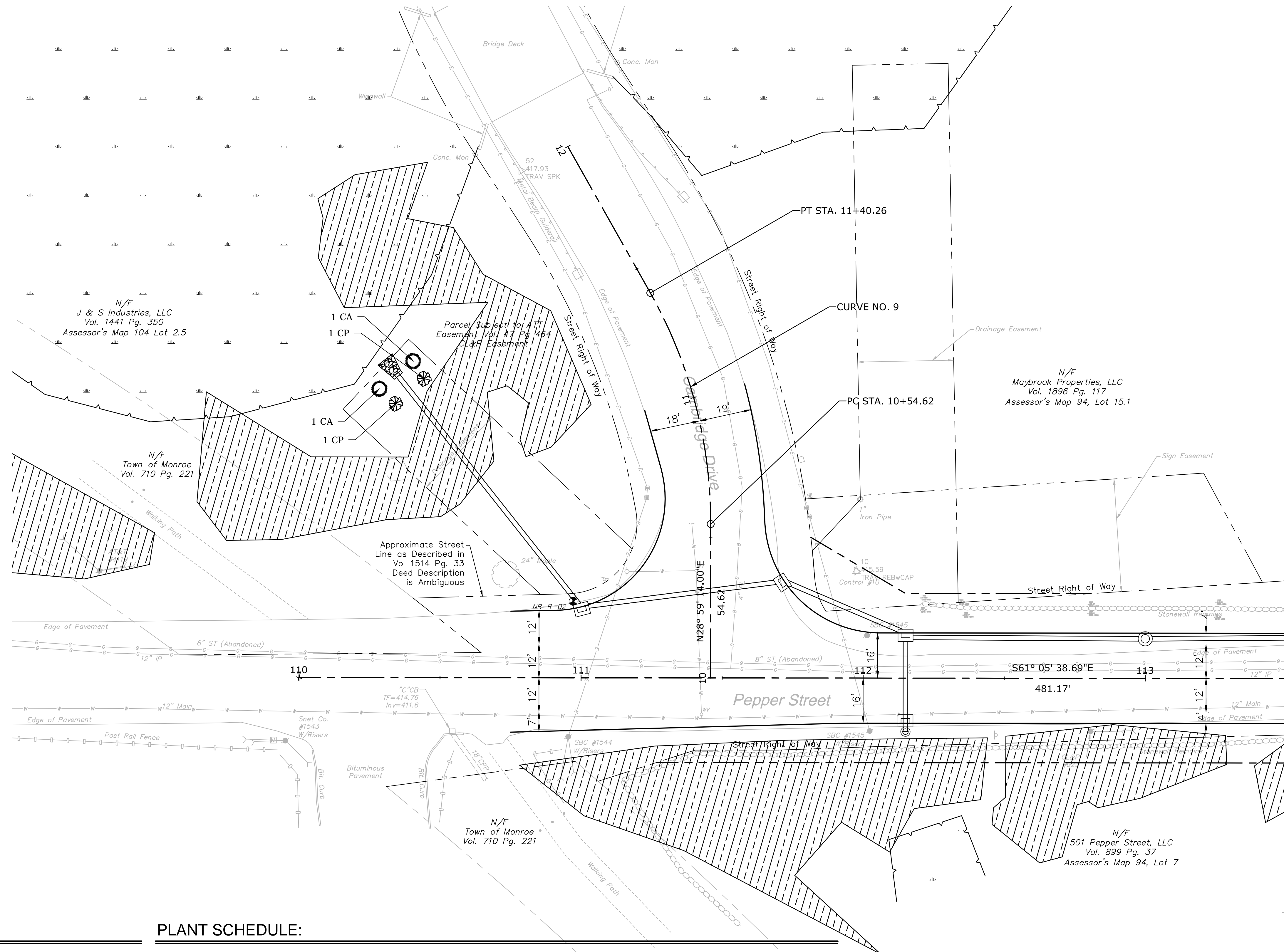
- LEGEND**
- FULL DEPTH PAVEMENT RECONSTRUCTION / PROPOSED WIDENING
 - WORK AREA



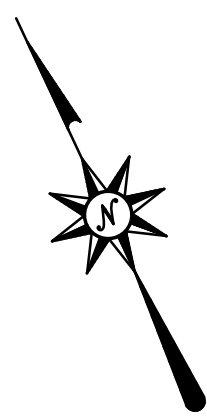
STAGE 3 & 4
1"=20'



LEGEND:



MATCH LINE STA. 113+50
SHEET LDS-03

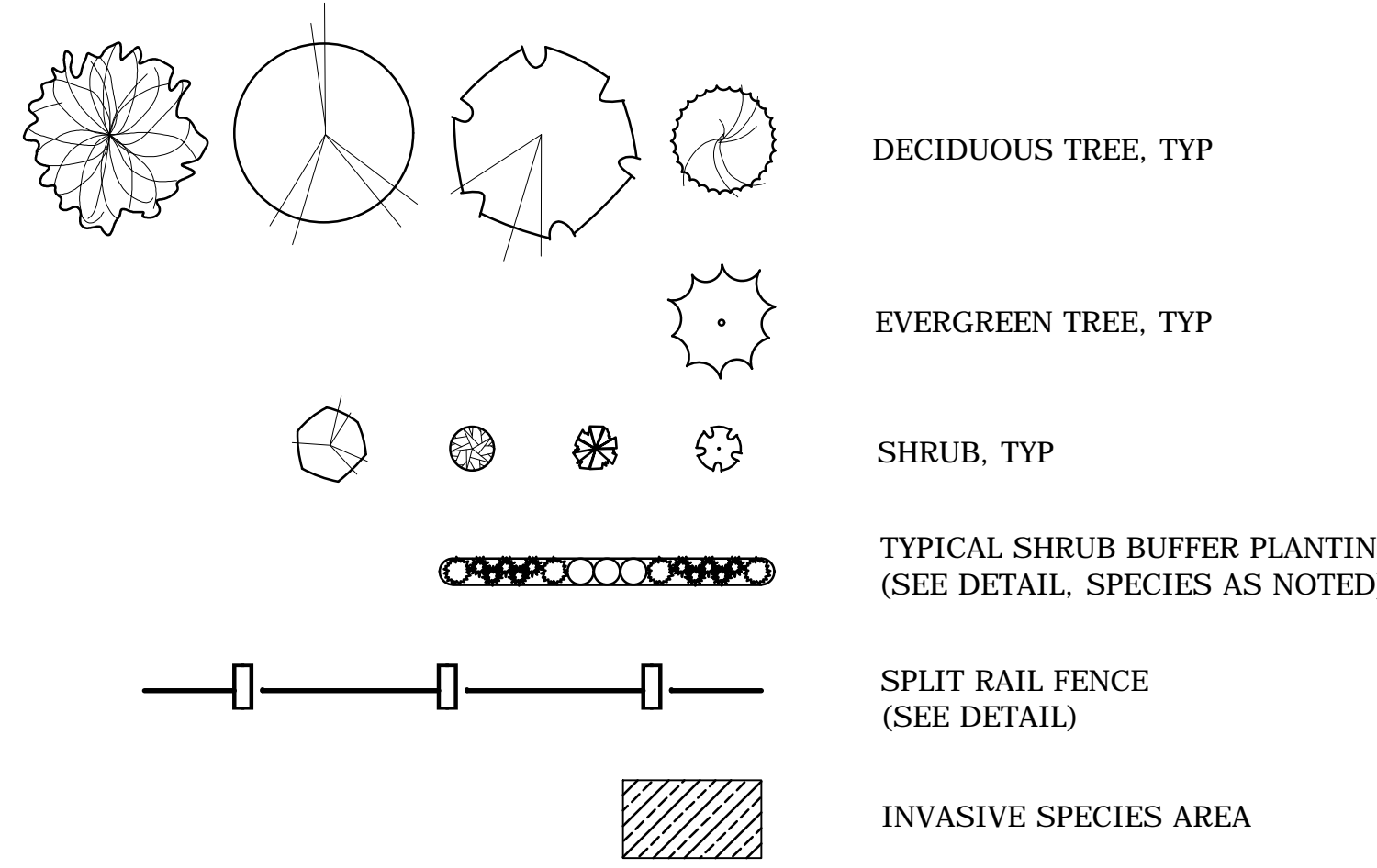


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ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

PLANTING LEGEND:



SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS

PLANT SCHEDULE:

DECIDUOUS TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	0	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	0	Acer x Freemanni 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	0	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	0	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

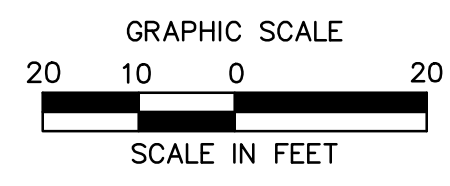
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	0	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

SHRUBS AND ORNAMENTAL GRASSES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	0	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	0	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	0	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	0	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	0	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	0	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JC	0	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VD	0	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.

WETLAND BUFFER PLANTS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	0	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	2	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	2	Comptonia peregrina	SWEET FERN	18"-24"
WB	0	Ilex verticillata	WINTERBERRY	18"-24"
VC	0	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"



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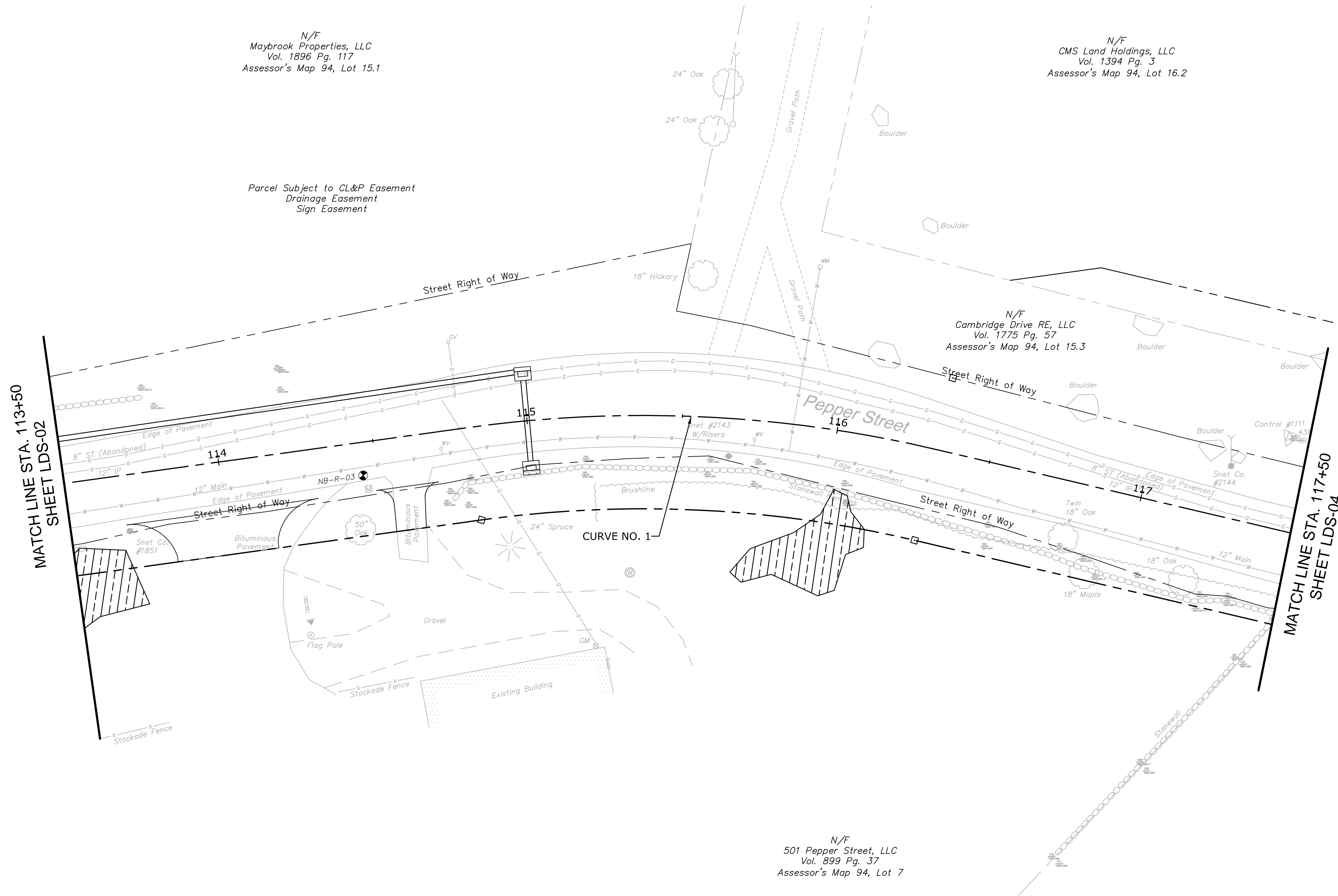
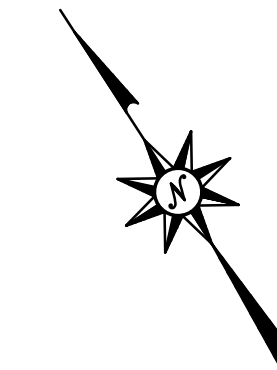
Designed O.L.C.
Drawn J.A.K.
Checked B.J.P.
Approved
Scale 1"=20'
Project No. 12C4326
Date 06/26/2019
CAD File: TLD12C432601

Title
LANDSCAPE PLAN

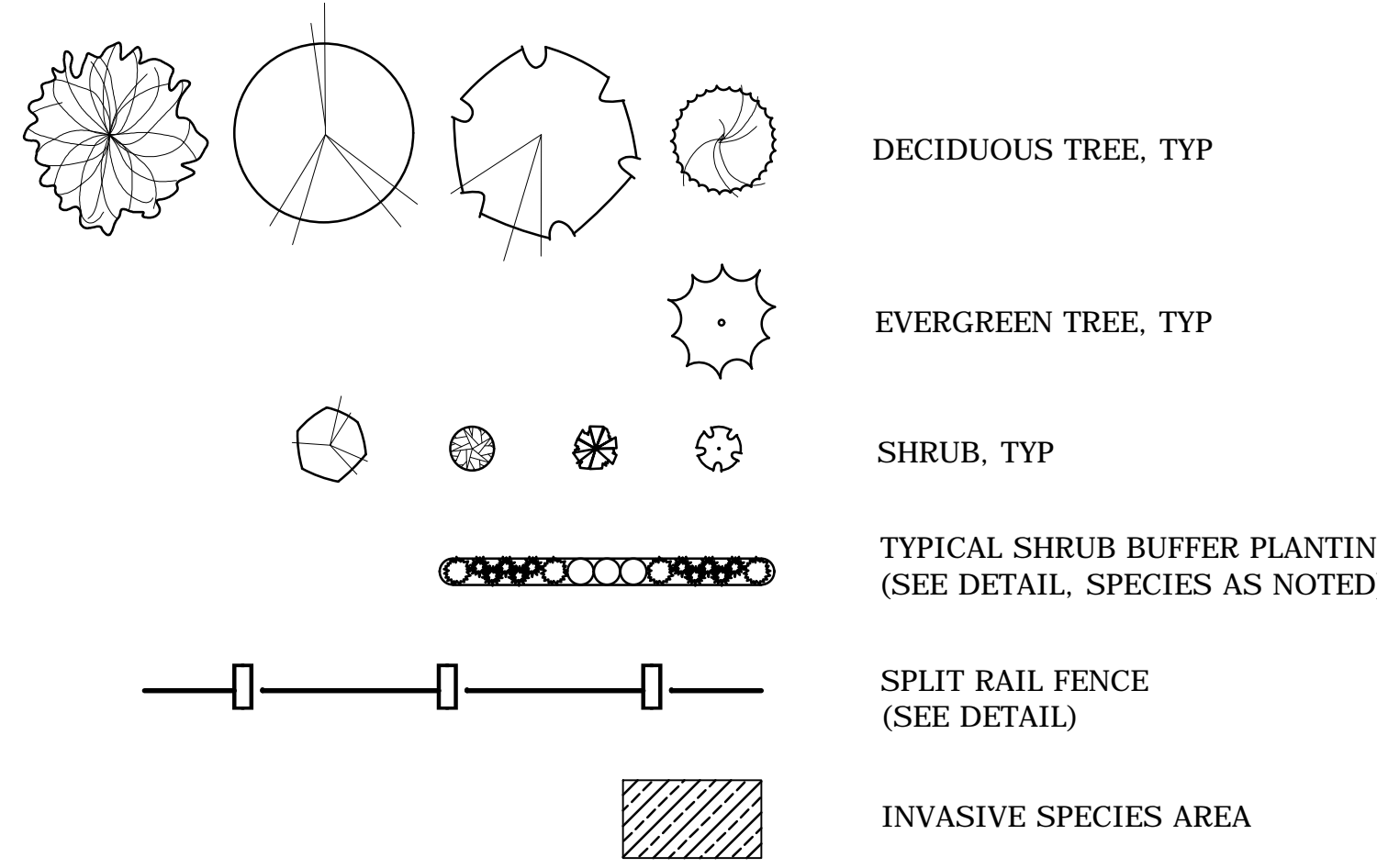
Sheet No.

LDS-02

LEGEND:



PLANTING LEGEND:



PLANT SCHEDULE:

DECIDUOUS TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	0	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	0	Acer x Freemannii 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	0	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	0	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	0	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

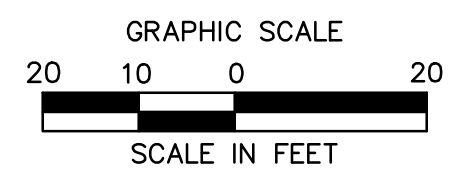
SHRUBS AND ORNAMENTAL GRASSES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	0	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	0	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	0	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	0	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	0	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	0	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JC	0	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VD	0	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.

WETLAND BUFFER PLANTS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	0	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	0	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	0	Comptonia peregrina	SWEET FERN	18"-24"
WB	0	Ilex verticillata	WINTERBERRY	18"-24"
VC	0	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"

SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS



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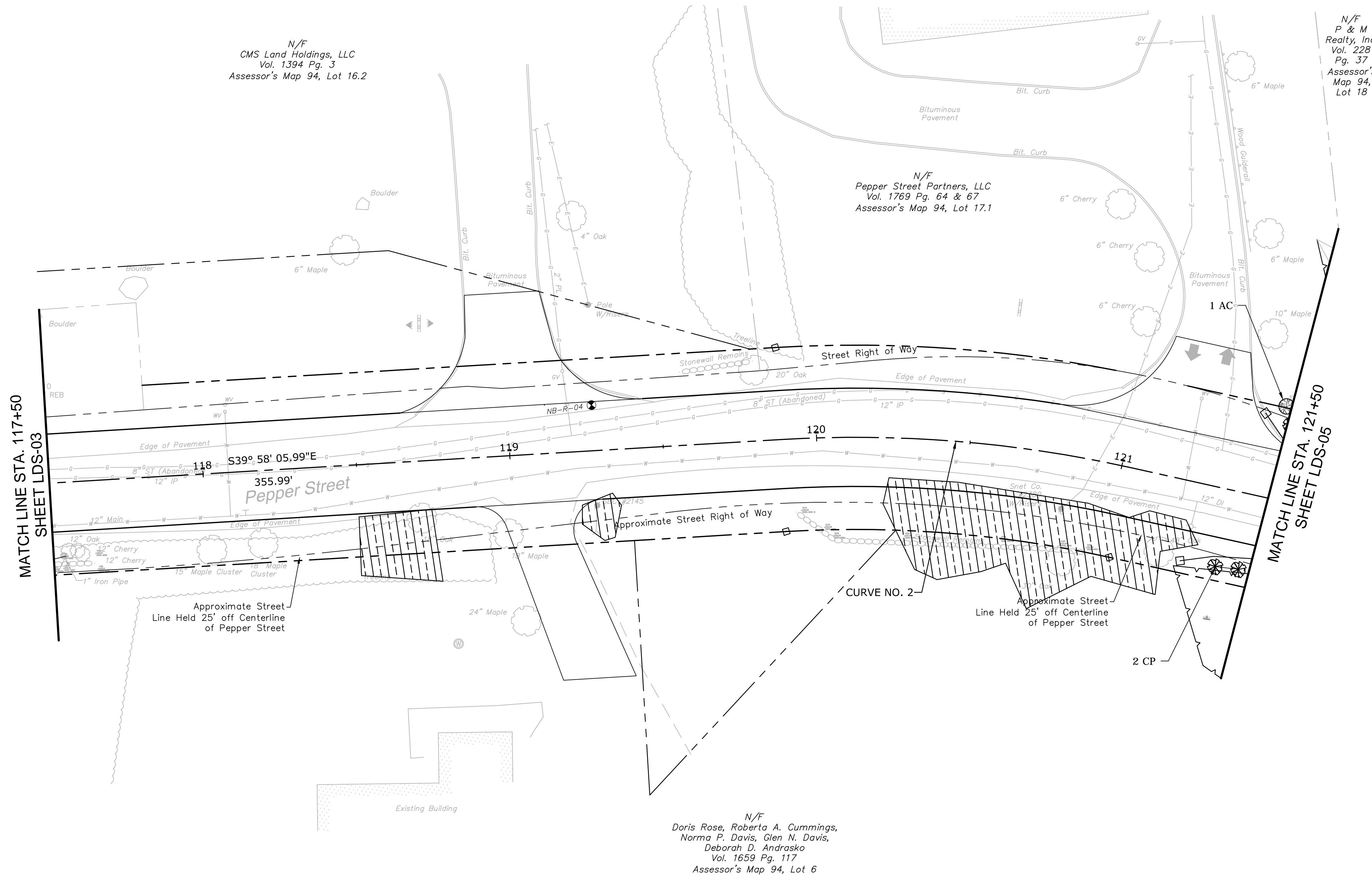
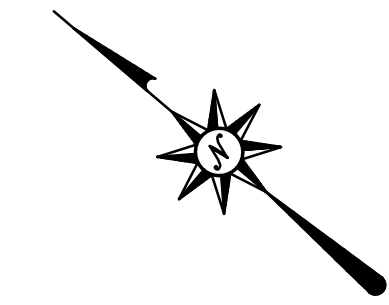
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

Revisions:
No. Date Desc.
Designed O.L.C.
Drawn J.A.K.
Checked B.J.P.
Approved
Scale 1"=20'
Project No. 12C4326
Date 06/26/2019
CAD File: TLD12C432601
Title
LANDSCAPE PLAN
Sheet No.
LDS-03

6/26/2019, CHASTRAND, G. \B0892\12C4326\DWG\LDS-03.dwg 2:05:52

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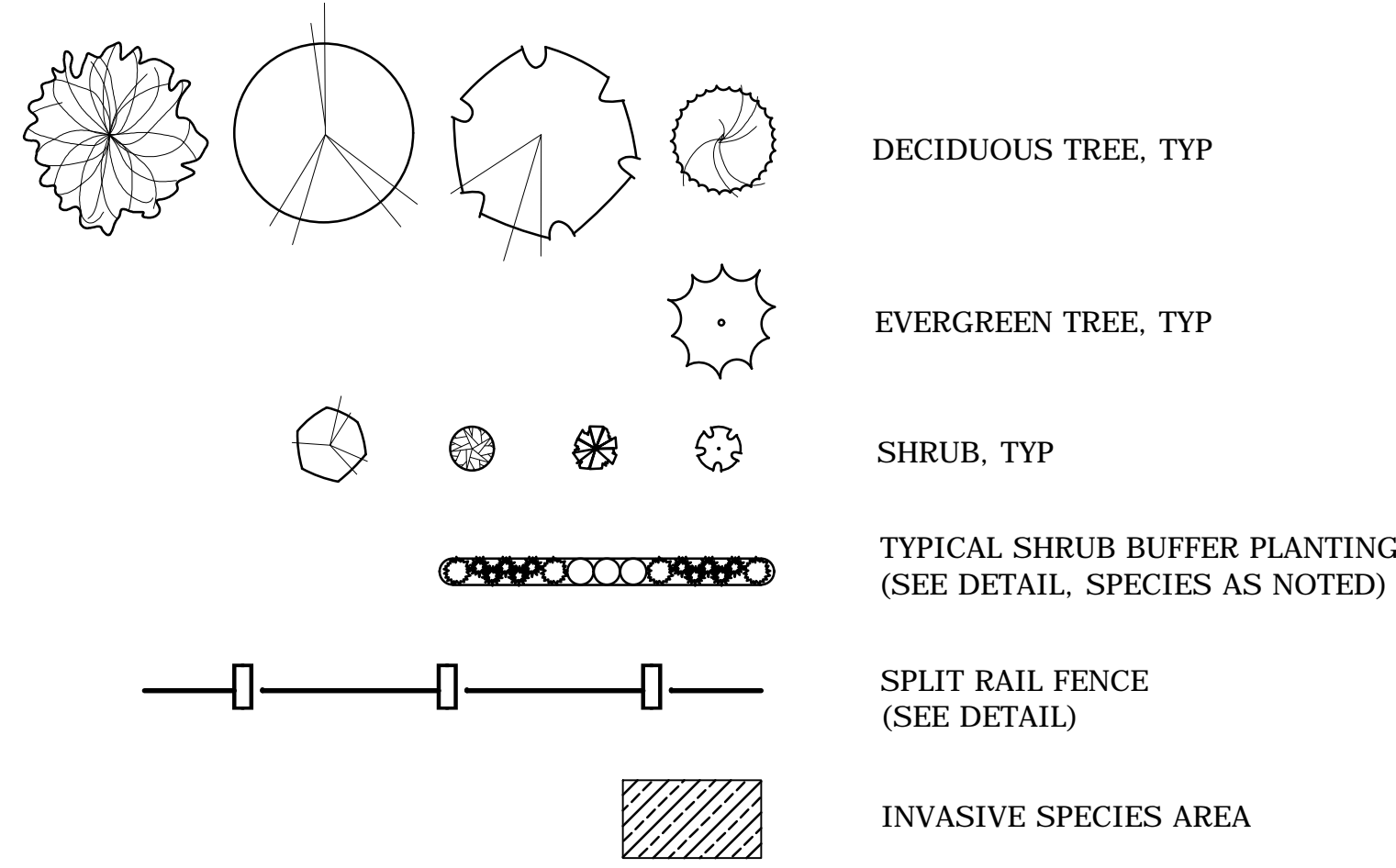
N/F
CMS Land Holdings, LLC
Vol. 1394 Pg. 3
Assessor's Map 94, Lot 16.2

N/F
Pepper Street Partners, LLC
Vol. 1769 Pg. 64 & 67
Assessor's Map 94, Lot 17.1

N/F
P & M
Realty, Inc.
Vol. 228
Pg. 37
Assessor's
Map 94,
Lot 18

N/F
Doris Rose, Roberta A. Cummings,
Norma P. Davis, Glen N. Davis,
Deborah D. Andrasko
Vol. 1659 Pg. 117
Assessor's Map 94, Lot 6

PLANTING LEGEND:



SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS

PLANT SCHEDULE:

DECIDUOUS TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	0	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	0	Acer x Freemanni 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	0	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	0	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

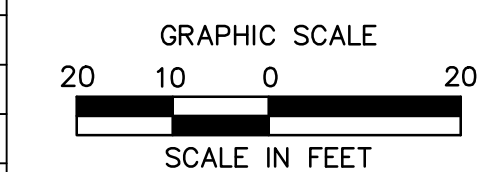
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	0	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

SHRUBS AND ORNAMENTAL GRASSES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	0	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	0	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	0	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	0	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	0	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	0	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JC	0	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VD	0	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.

WETLAND BUFFER PLANTS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	1	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	0	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	2	Comptonia peregrina	SWEET FERN	18"-24"
WB	0	Ilex verticillata	WINTERBERRY	18"-24"
VC	0	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"



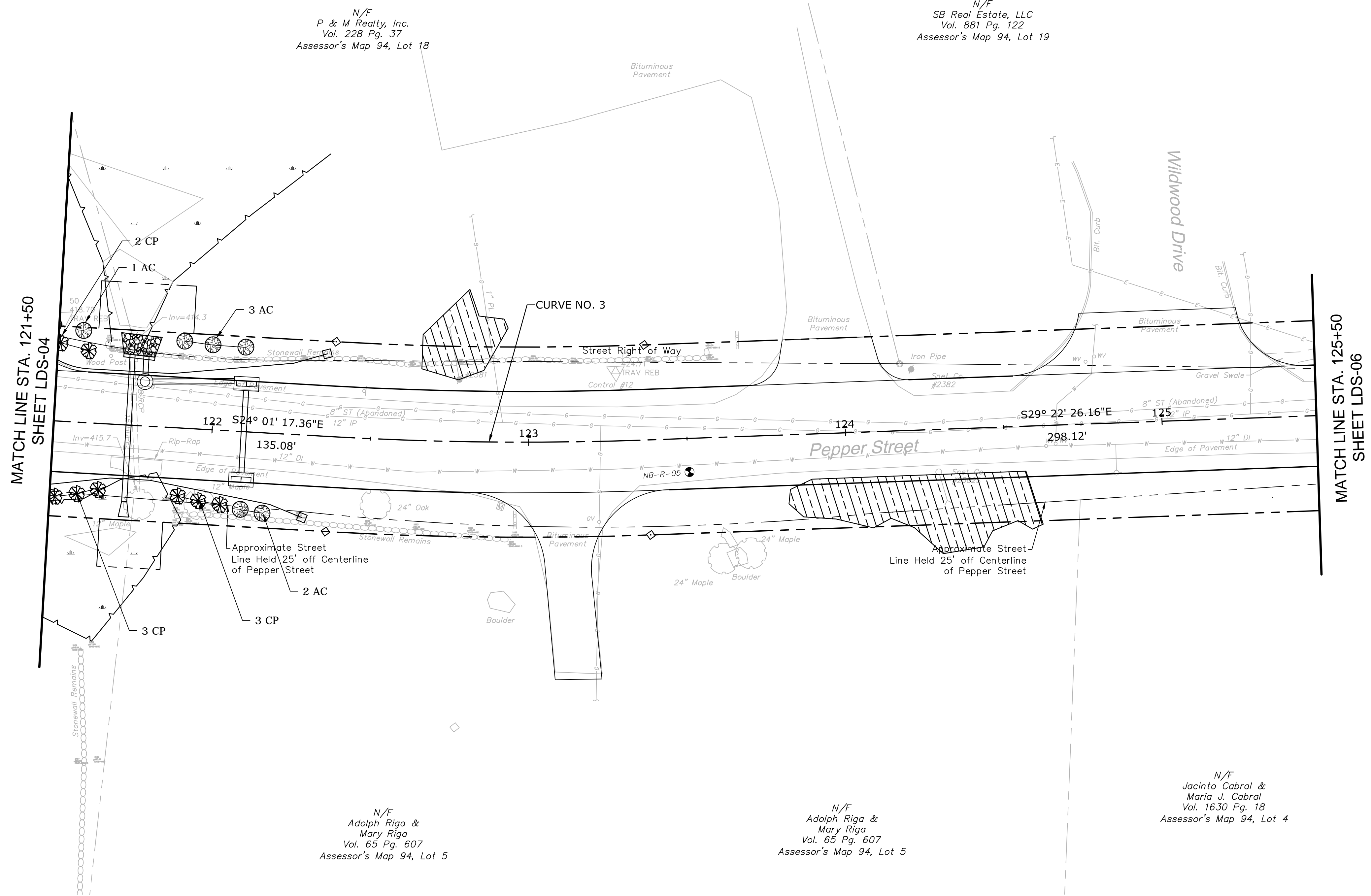
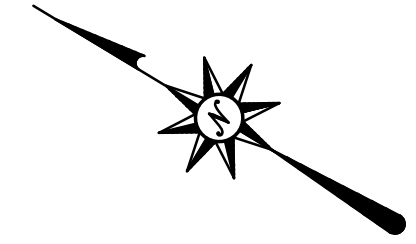
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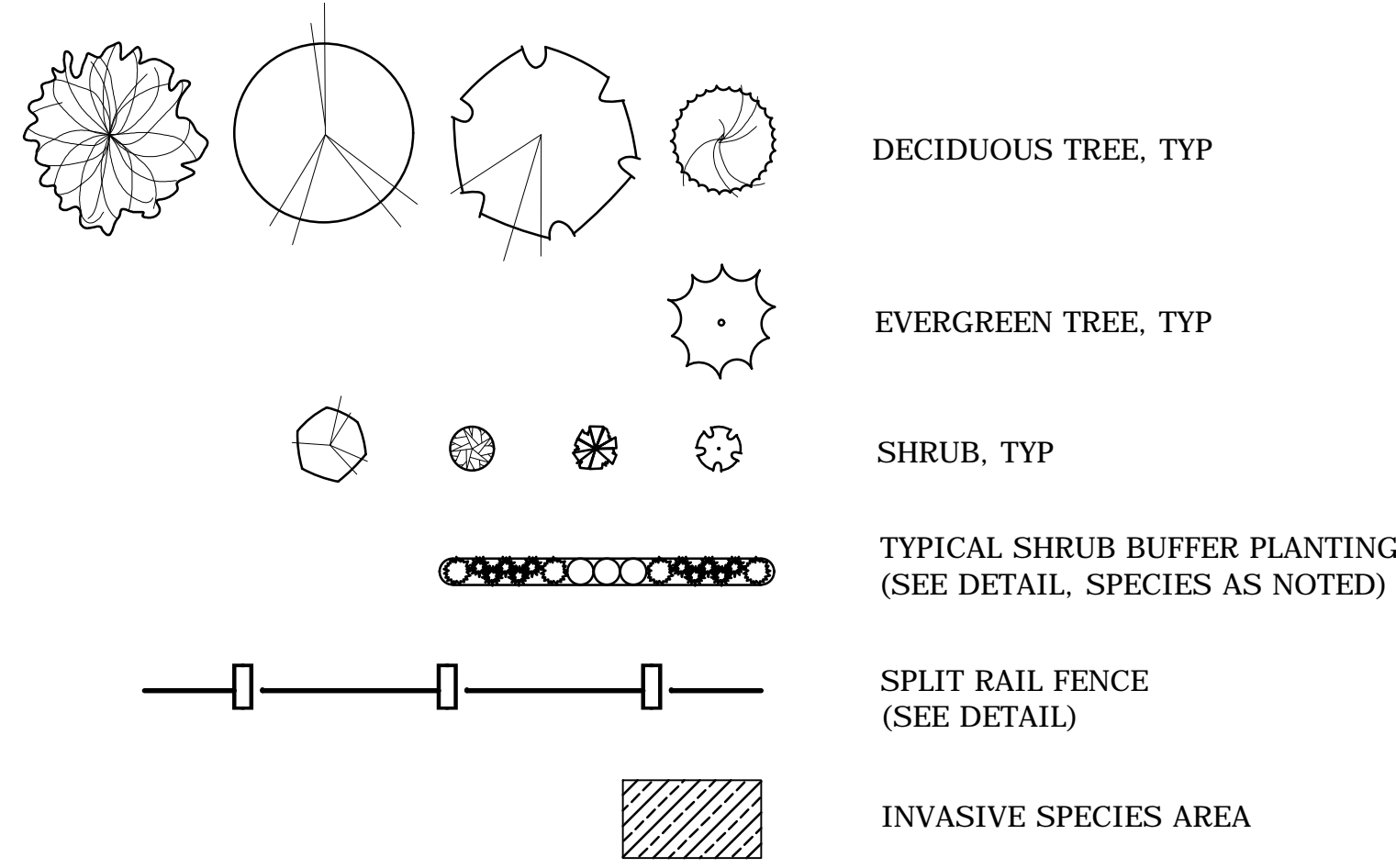
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

Designed O.L.C.
Drawn J.A.K.
Checked B.J.P.
Approved
Scale 1"=20'
Project No. 12C4326
Date 06/26/2019
CAD File: TLD12C432601
Title
LANDSCAPE
PLAN
Sheet No.
LDS-04

LEGEND:



PLANTING LEGEND:



SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS

PLANT SCHEDULE:

DECIDUOUS TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	0	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	0	Acer x Freemannii 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	0	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	0	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

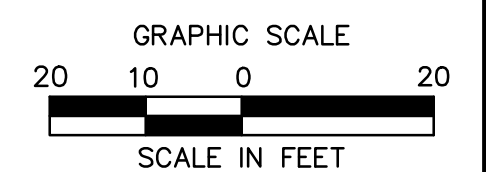
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	0	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

SHRUBS AND ORNAMENTAL GRASSES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	0	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	0	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	0	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	0	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	0	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	0	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JC	0	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VD	0	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.

WETLAND BUFFER PLANTS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	6	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	0	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	8	Comptonia peregrina	SWEET FERN	18"-24"
WB	0	Ilex verticillata	WINTERBERRY	18"-24"
VC	0	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"



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ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

Xref (G) : B012C432601 ; X012C432602 ; X012C432603 ; X012C432604 ; X012C432605 ; X012C432606 ; X012C432607 ; X012C432608 ; X012C432609 ; X012C432610 ; X012C432611 ; X012C432612 ; X012C432613 ; X012C432614 ; X012C432615 ; X012C432616 ; X012C432617 ; X012C432618 ; X012C432619 ; X012C432620 ; X012C432621 ; X012C432622 ; X012C432623 ; X012C432624 ; X012C432625 ; X012C432626 ; X012C432627 ; X012C432628 ; X012C432629 ; X012C432630 ; X012C432631 ; X012C432632 ; X012C432633 ; X012C432634 ; X012C432635 ; X012C432636 ; X012C432637 ; X012C432638 ; X012C432639 ; X012C432640 ; X012C432641 ; X012C432642 ; X012C432643 ; X012C432644 ; X012C432645 ; X012C432646 ; X012C432647 ; X012C432648 ; X012C432649 ; X012C432650 ; X012C432651 ; X012C432652 ; X012C432653 ; X012C432654 ; X012C432655 ; X012C432656 ; X012C432657 ; X012C432658 ; X012C432659 ; X012C432660 ; X012C432661 ; X012C432662 ; X012C432663 ; X012C432664 ; X012C432665 ; X012C432666 ; X012C432667 ; X012C432668 ; X012C432669 ; X012C432670 ; X012C432671 ; X012C432672 ; X012C432673 ; X012C432674 ; X012C432675 ; X012C432676 ; X012C432677 ; X012C432678 ; X012C432679 ; X012C432680 ; X012C432681 ; X012C432682 ; X012C432683 ; X012C432684 ; X012C432685 ; X012C432686 ; X012C432687 ; X012C432688 ; X012C432689 ; X012C432690 ; X012C432691 ; X012C432692 ; X012C432693 ; X012C432694 ; X012C432695 ; X012C432696 ; X012C432697 ; X012C432698 ; X012C432699 ; X012C432700 ; X012C432701 ; X012C432702 ; X012C432703 ; X012C432704 ; X012C432705 ; X012C432706 ; X012C432707 ; X012C432708 ; X012C432709 ; X012C432710 ; X012C432711 ; X012C432712 ; X012C432713 ; X012C432714 ; X012C432715 ; X012C432716 ; X012C432717 ; X012C432718 ; X012C432719 ; X012C432720 ; X012C432721 ; X012C432722 ; X012C432723 ; X012C432724 ; X012C432725 ; X012C432726 ; X012C432727 ; X012C432728 ; X012C432729 ; X012C432730 ; X012C432731 ; X012C432732 ; X012C432733 ; X012C432734 ; X012C432735 ; X012C432736 ; X012C432737 ; X012C432738 ; X012C432739 ; X012C432740 ; X012C432741 ; X012C432742 ; X012C432743 ; X012C432744 ; X012C432745 ; X012C432746 ; X012C432747 ; X012C432748 ; X012C432749 ; X012C432750 ; X012C432751 ; X012C432752 ; X012C432753 ; X012C432754 ; X012C432755 ; X012C432756 ; X012C432757 ; X012C432758 ; X012C432759 ; X012C432760 ; X012C432761 ; X012C432762 ; X012C432763 ; X012C432764 ; X012C432765 ; X012C432766 ; X012C432767 ; X012C432768 ; X012C432769 ; X012C432770 ; X012C432771 ; X012C432772 ; X012C432773 ; X012C432774 ; X012C432775 ; X012C432776 ; X012C432777 ; X012C432778 ; X012C432779 ; X012C432780 ; X012C432781 ; X012C432782 ; X012C432783 ; X012C432784 ; X012C432785 ; X012C432786 ; X012C432787 ; X012C432788 ; X012C432789 ; X012C432790 ; X012C432791 ; X012C432792 ; X012C432793 ; X012C432794 ; X012C432795 ; X012C432796 ; X012C432797 ; X012C432798 ; X012C432799 ; X012C432800 ; X012C432801 ; X012C432802

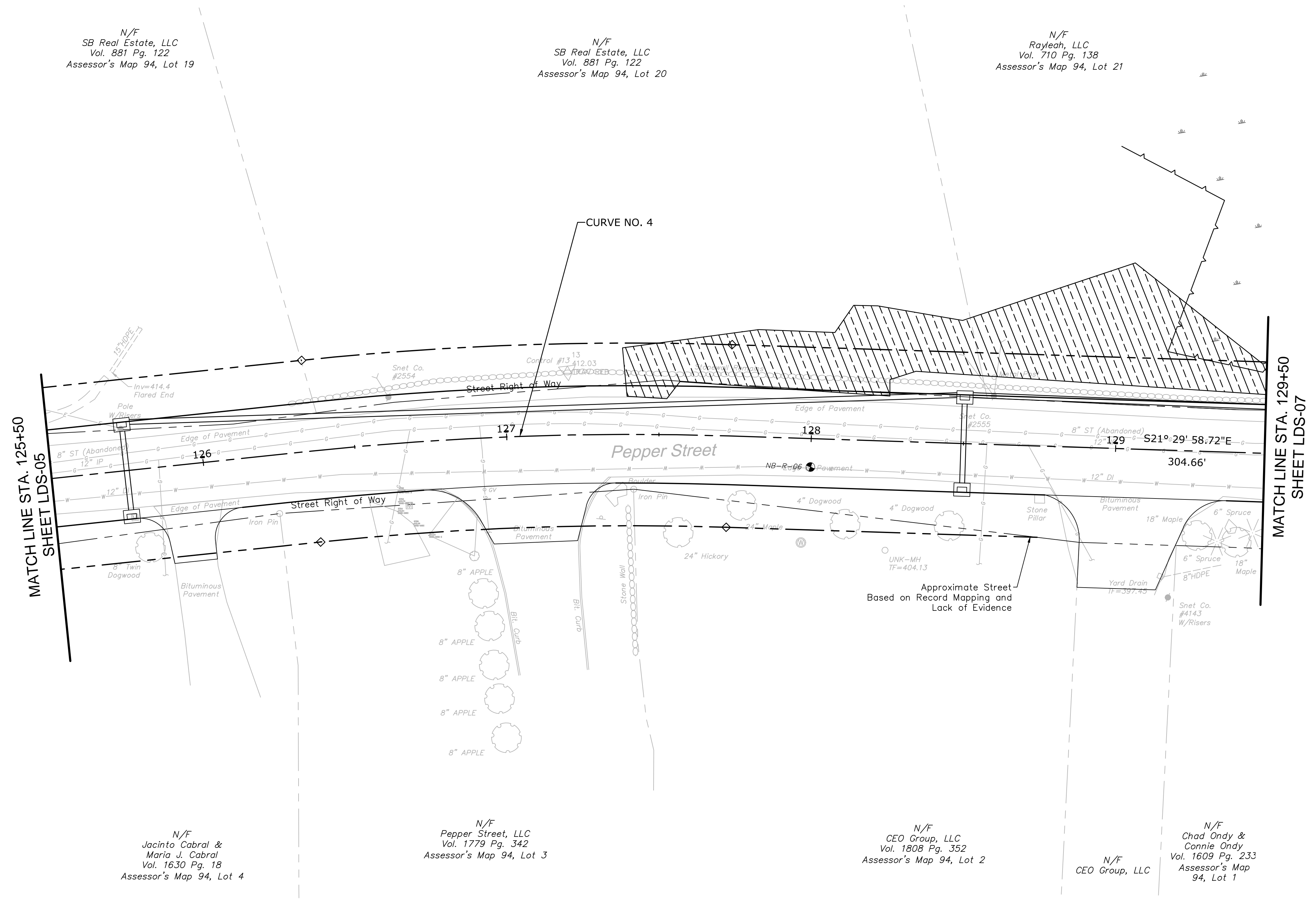
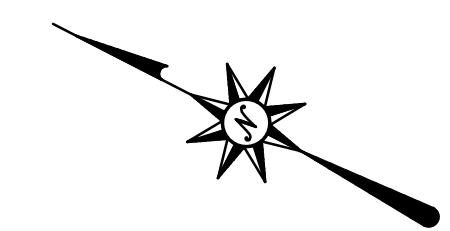
DESIGNED	O.L.C.
Drawn	J.A.K.
Checked	B.J.P.
Approved	
Scale	1"=20'
Project No.	12C4326
Date	06/26/2019
CAD File:	TLDS12C432601

LANDSCAPE PLAN

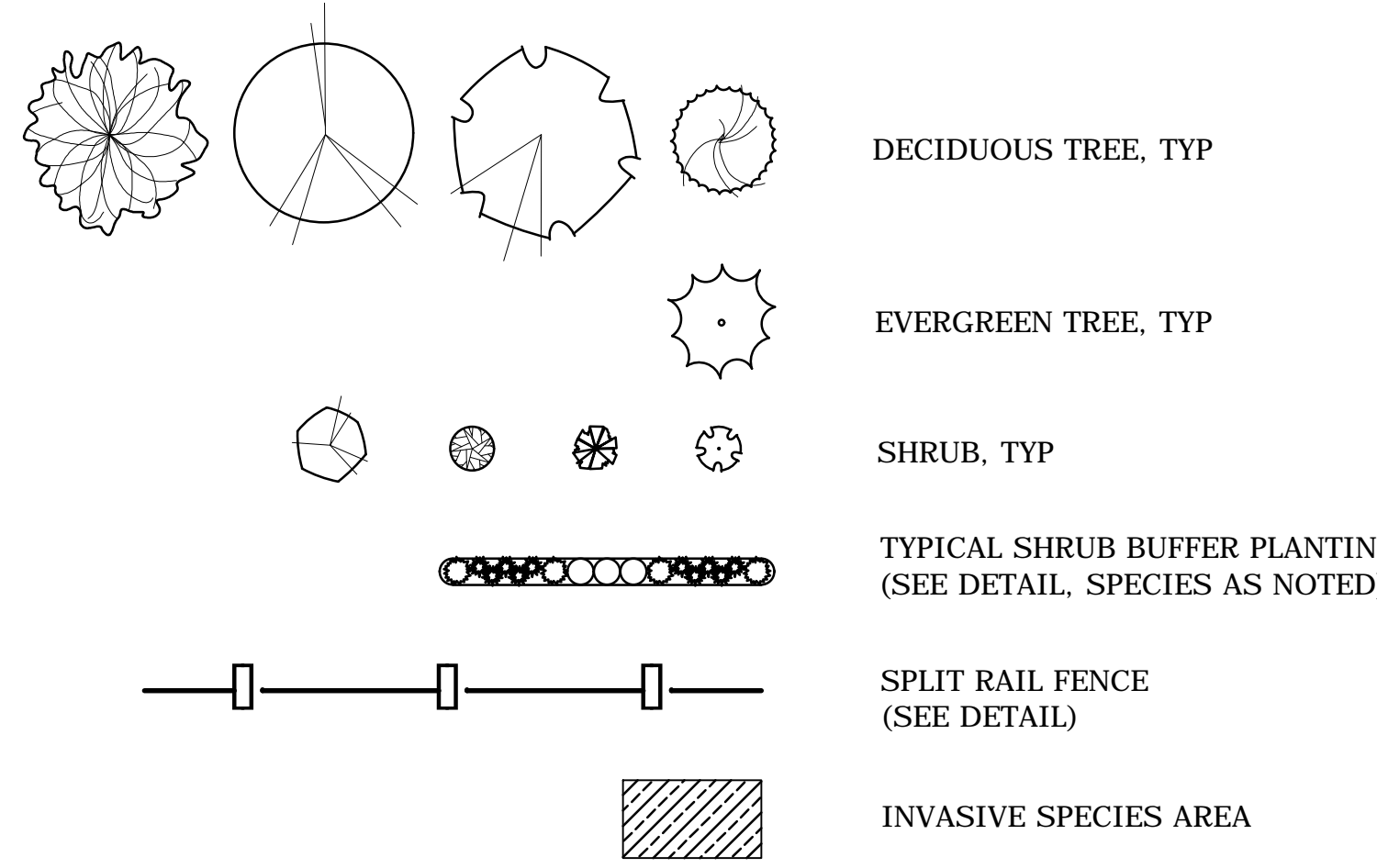
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LDS-05

LEGEND:



PLANTING LEGEND:



SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS

PLANT SCHEDULE:

DECIDUOUS TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	0	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	0	Acer x Freemannii 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	0	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	0	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

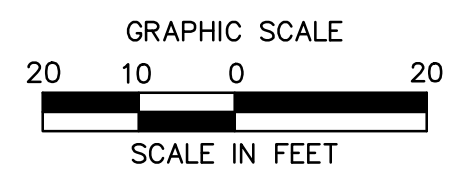
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	0	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

SHRUBS AND ORNAMENTAL GRASSES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	0	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	0	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	0	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	0	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	0	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	0	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JC	0	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VD	0	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.

WETLAND BUFFER PLANTS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	0	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	0	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	0	Comptonia peregrina	SWEET FERN	18"-24"
WB	0	Ilex verticillata	WINTERBERRY	18"-24"
VC	0	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"



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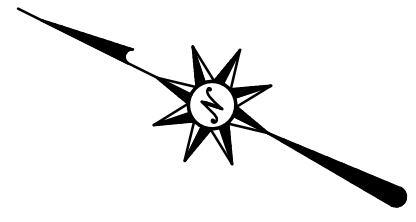
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ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

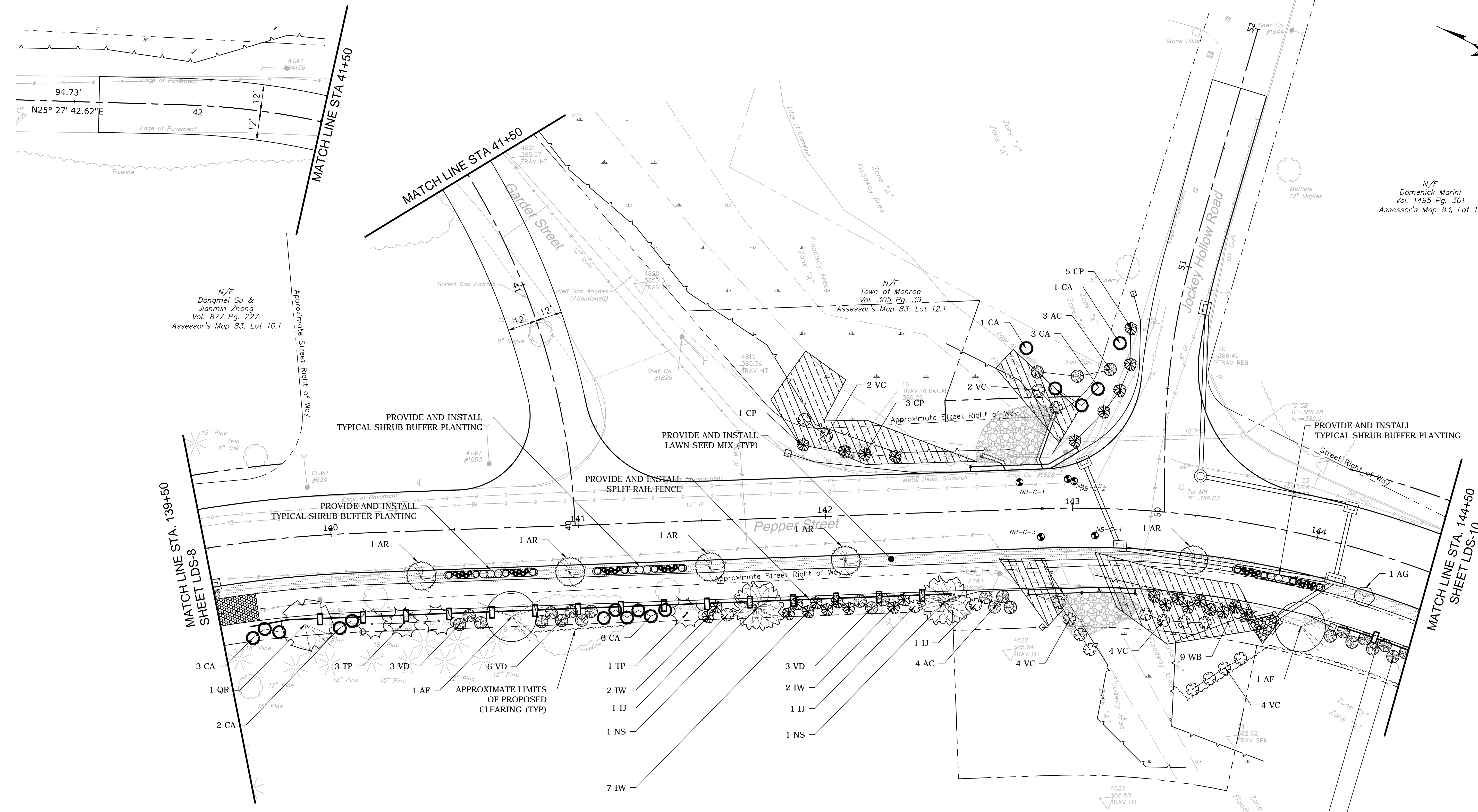
Revisions:
No. Date Desc.
Designed O.L.C.
Drawn J.A.K.
Checked B.J.P.
Approved
Scale 1"=20'
Project No. 12C4326
Date 06/26/2019
CAD File: TLD12C432601
Title
LANDSCAPE PLAN
Sheet No.
LDS-06

6/26/2019, CHASTRAND, G. \AR\2019\12C4326\DWG\TLD12C432601.DWG LDS-06 24X36 20SC.

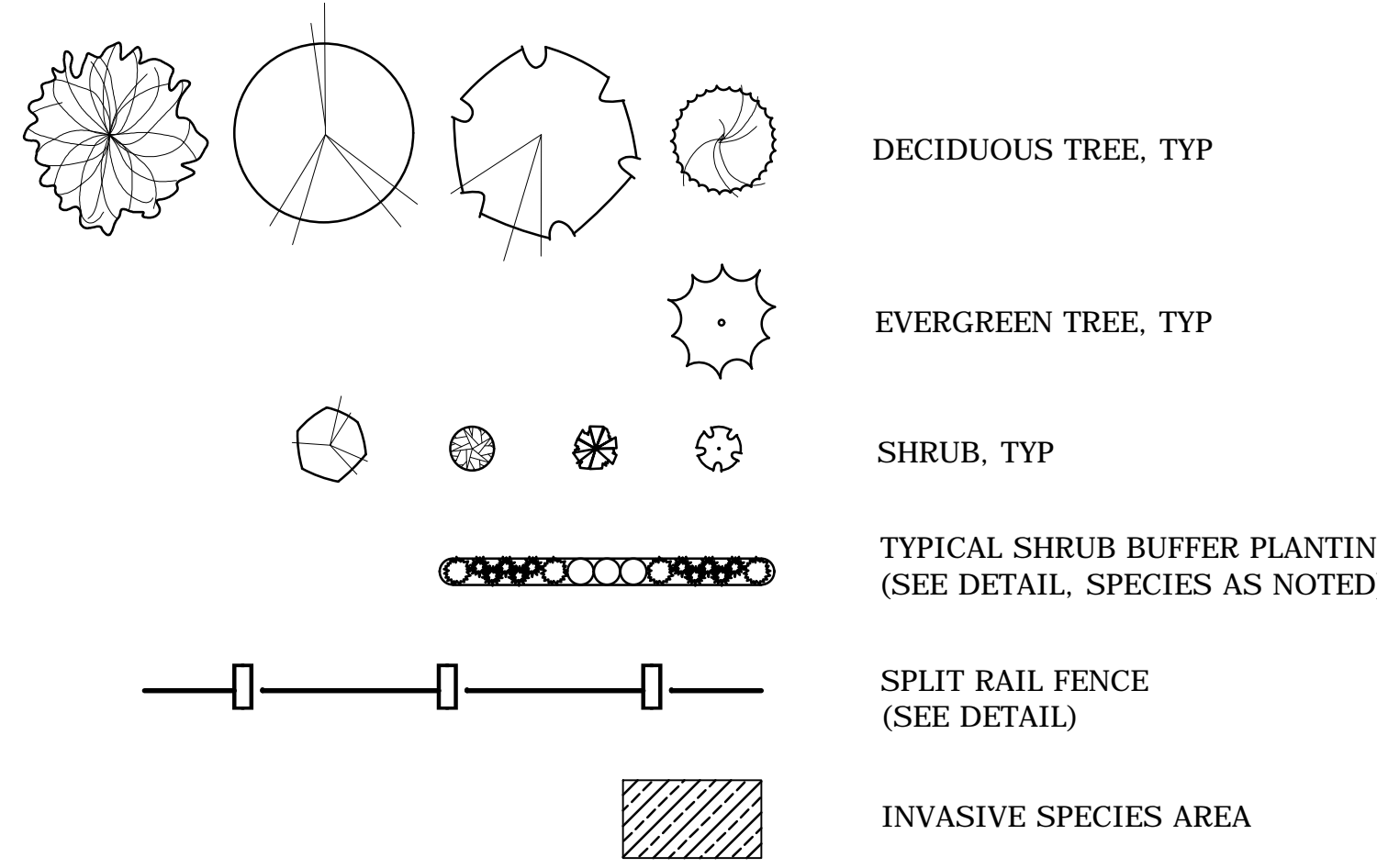
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N/F
Domenick Marini
Vol. 1495 Pg. 301
Assessor's Map 83, Lot 14



PLANTING LEGEND:



SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS

PLANT SCHEDULE:

DECIDUOUS TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	5	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	2	Acer x Freemannii 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	2	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	1	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

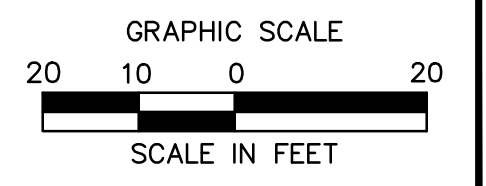
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	4	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

SHRUBS AND ORNAMENTAL GRASSES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	1	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	11	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	30	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	9	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	3	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	11	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JC	12	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VD	23	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.

WETLAND BUFFER PLANTS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	7	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	5	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	9	Comptonia peregrina	SWEET FERN	18"-24"
WB	9	Ilex verticillata	WINTERBERRY	18"-24"
VC	16	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"



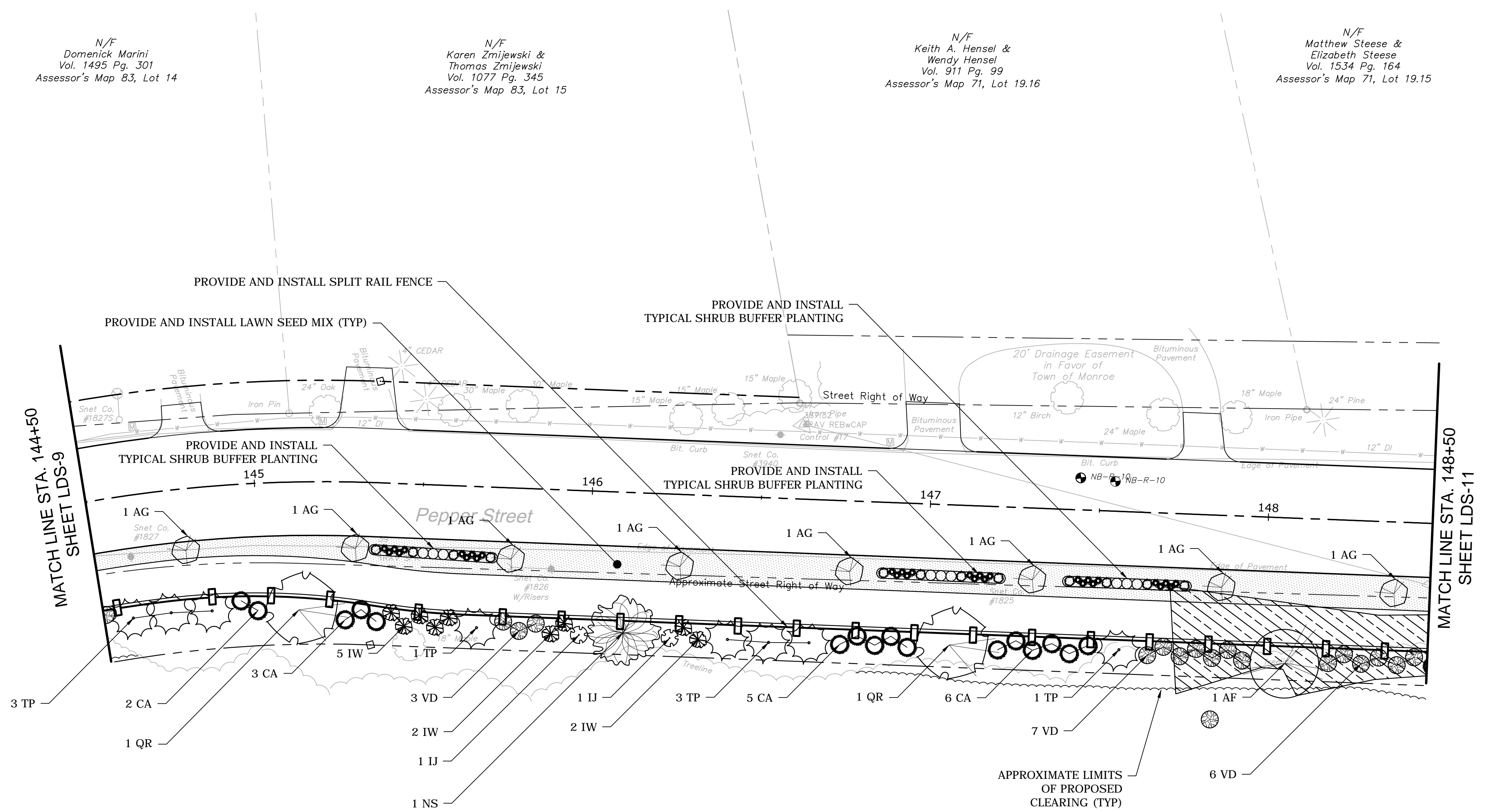


N/F
Domenick Marini
Vol. 1495 Pg. 301
Assessor's Map 83, Lot 14

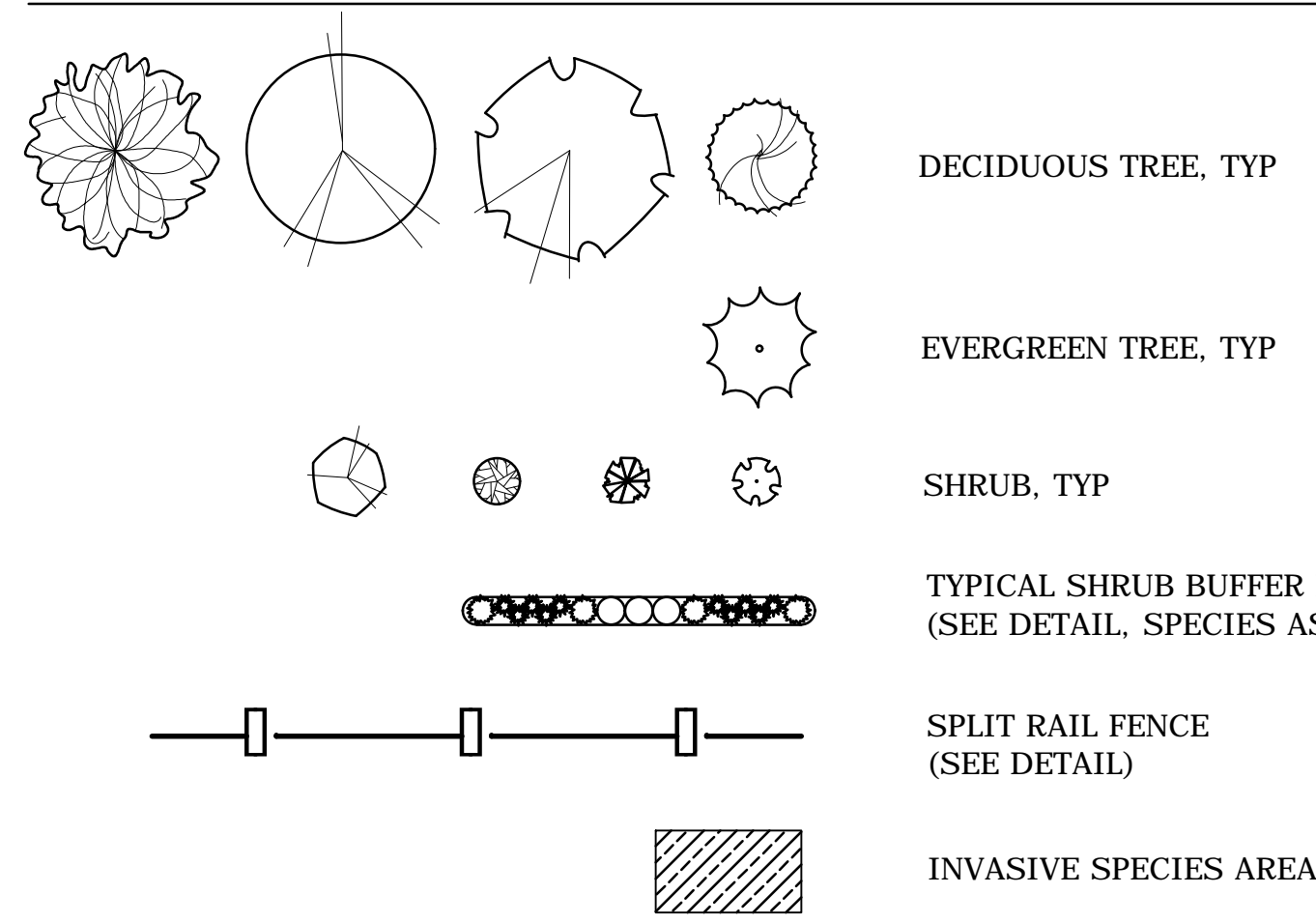
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Karen Zmijewski &
Thomas Zmijewski
Vol. 1077 Pg. 345
Assessor's Map 83, Lot 15

N/F
Keith A. Hensel &
Wendy Hensel
Vol. 911 Pg. 99
Assessor's Map 71, Lot 19.16

N/F
Matthew Steese &
Elizabeth Steese
Vol. 1534 Pg. 164
Assessor's Map 71, Lot 19.15



PLANTING LEGEND:



SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS

PLANT SCHEDULE:

DECIDUOUS TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	0	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	1	Acer x Freemanni 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	1	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	2	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

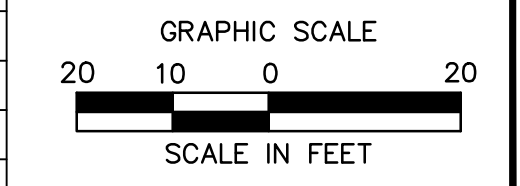
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	8	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

SHRUBS AND ORNAMENTAL GRASSES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	8	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	16	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	30	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	9	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	2	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	9	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JC	12	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VD	16	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.

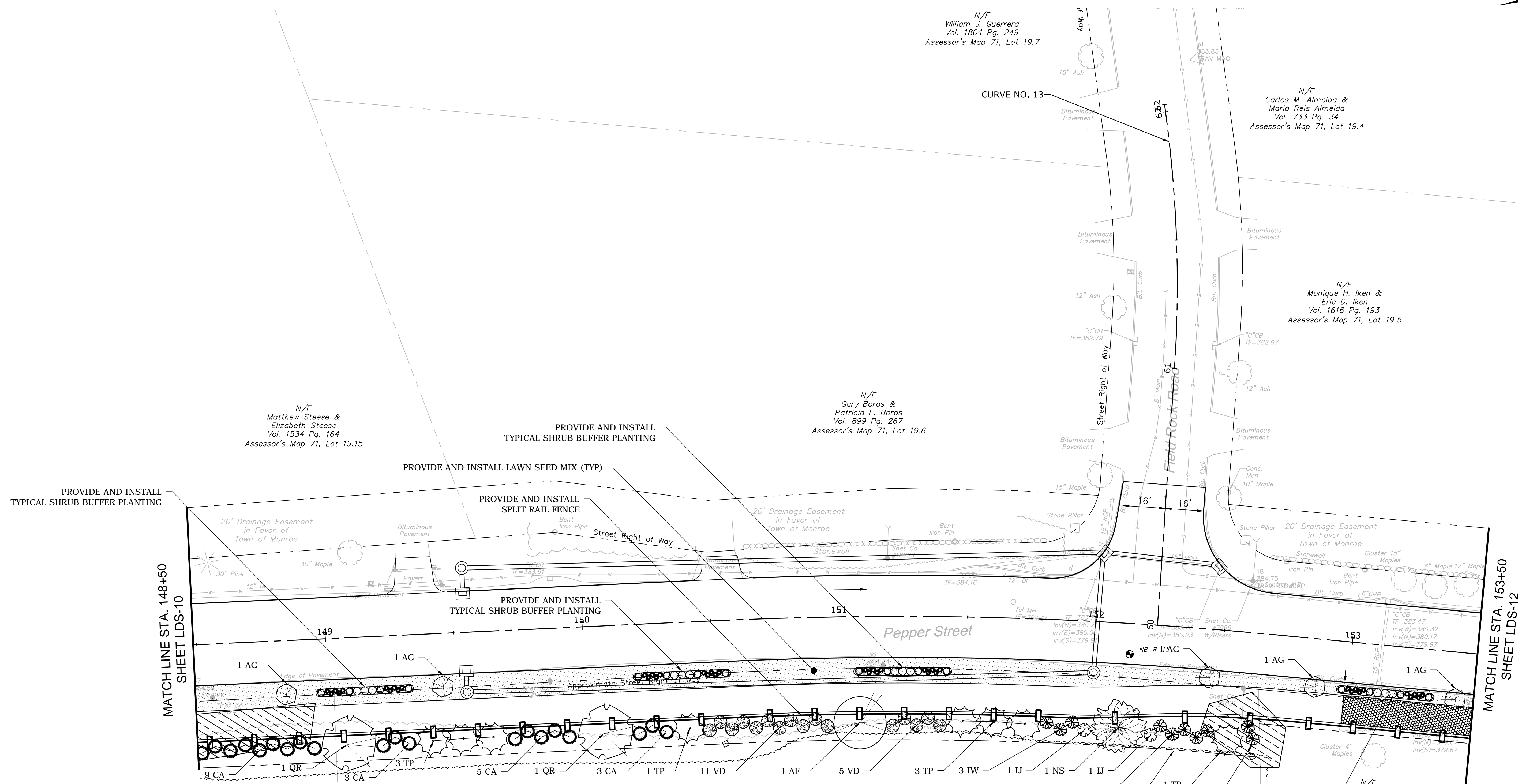
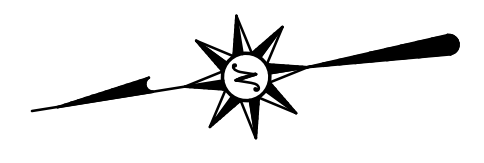
WETLAND BUFFER PLANTS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	0	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	0	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	0	Comptonia peregrina	SWEET FERN	18"-24"
WB	0	Ilex verticillata	WINTERBERRY	18"-24"
VC	0	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"

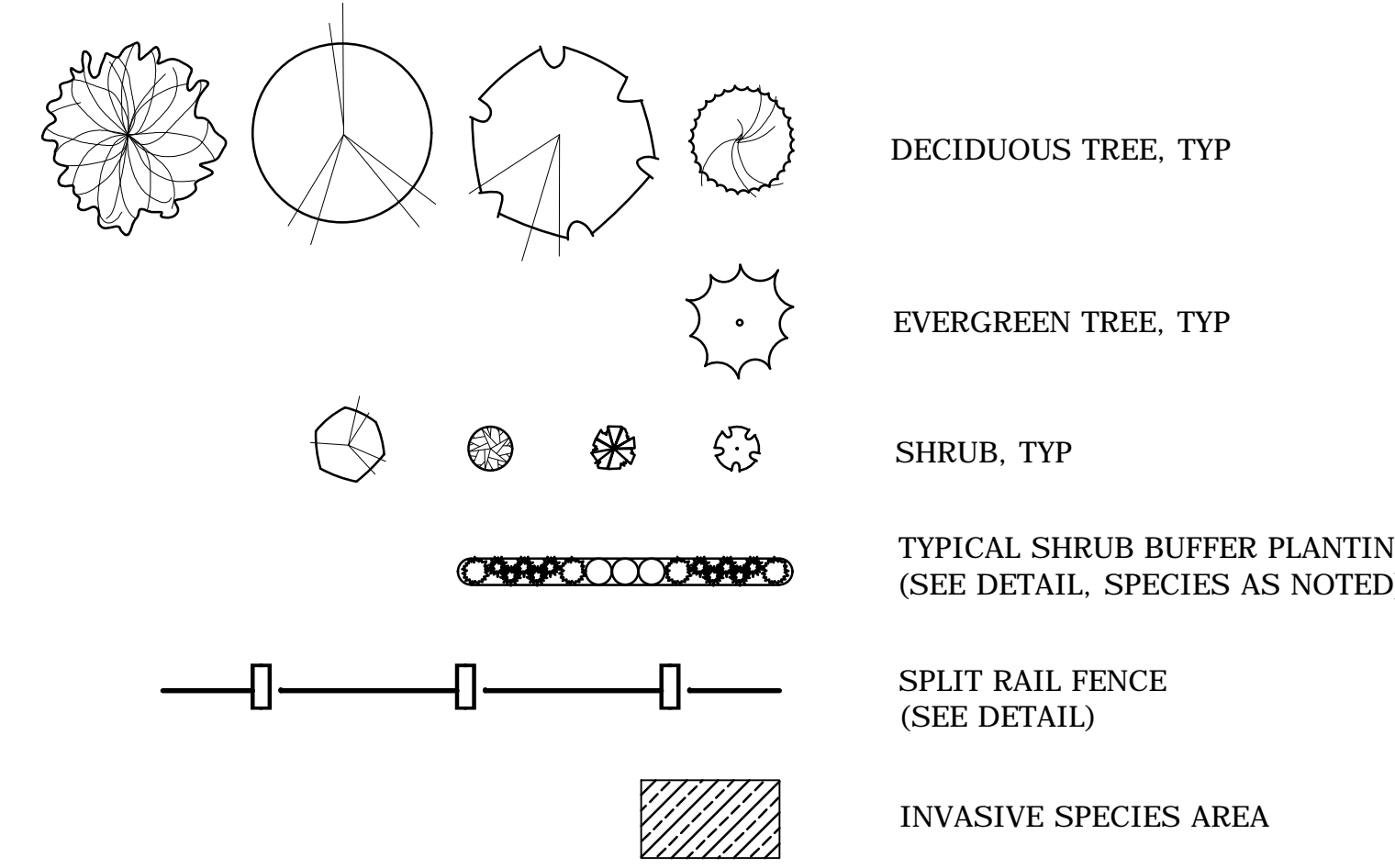


ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

Designed: O.L.C.
Drawn: J.A.K.
Checked: B.J.P.
Approved: 1"=20'
Scale: 12C4326
Project No: 06/26/2019
Date: TLD512C432601
Title: LANDSCAPE PLAN
Sheet No: LDS-10



PLANTING LEGEND:



SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS

PLANT SCHEDULE:

DECIDUOUS TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	0	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	1	Acer x Freemanni 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	1	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	2	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

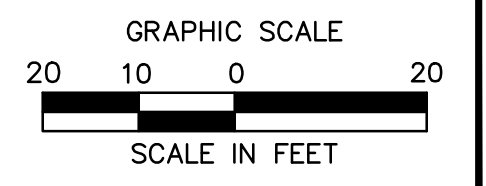
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	8	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

SHRUBS AND ORNAMENTAL GRASSES

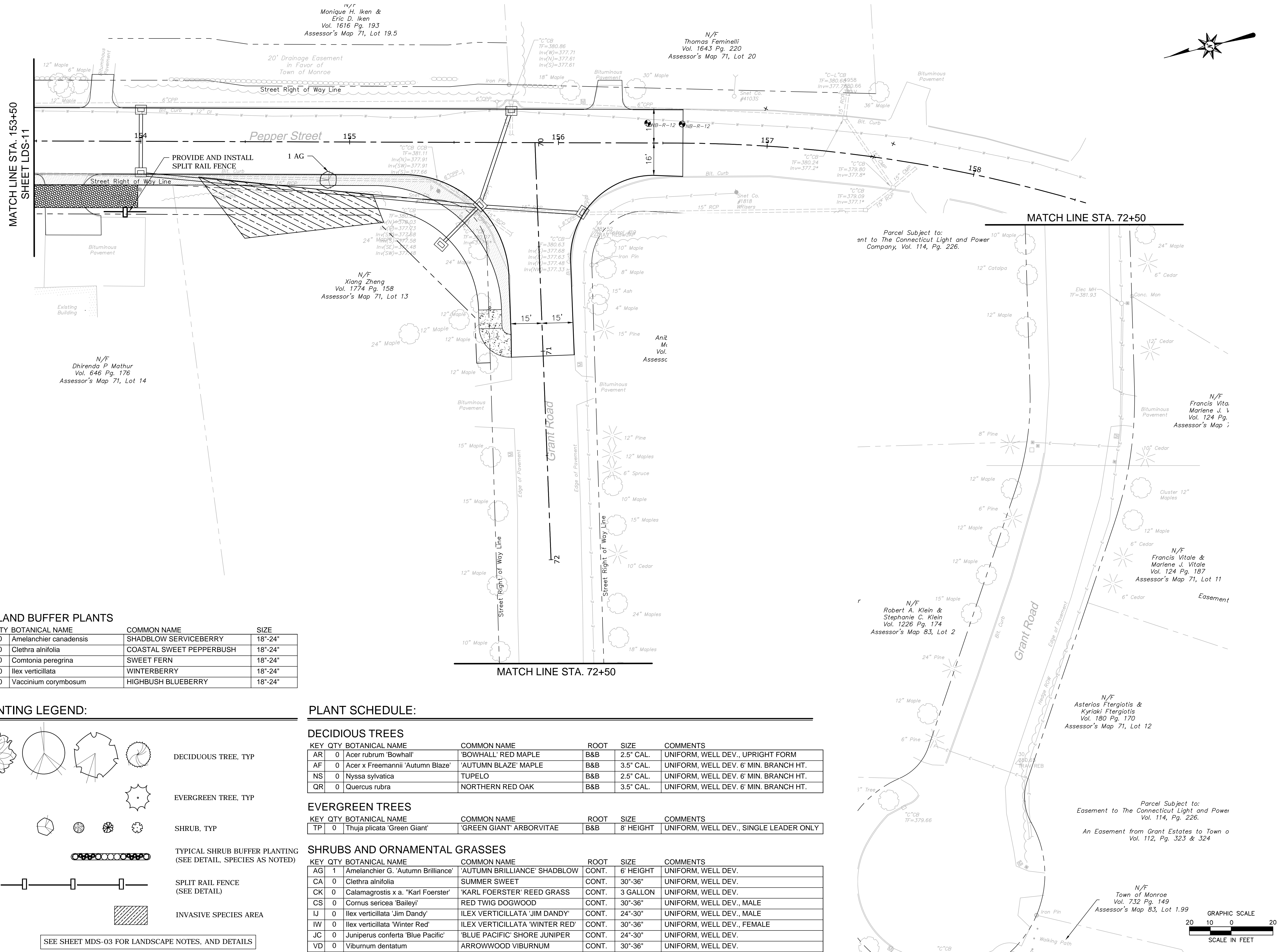
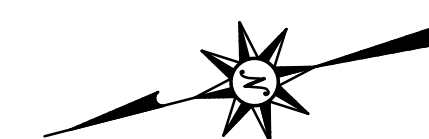
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	5	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	20	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	40	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	12	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	2	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	10	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JC	16	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VD	16	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.

WETLAND BUFFER PLANTS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	0	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	0	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	0	Comptonia peregrina	SWEET FERN	18"-24"
WB	0	Ilex verticillata	WINTERBERRY	18"-24"
VC	0	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"



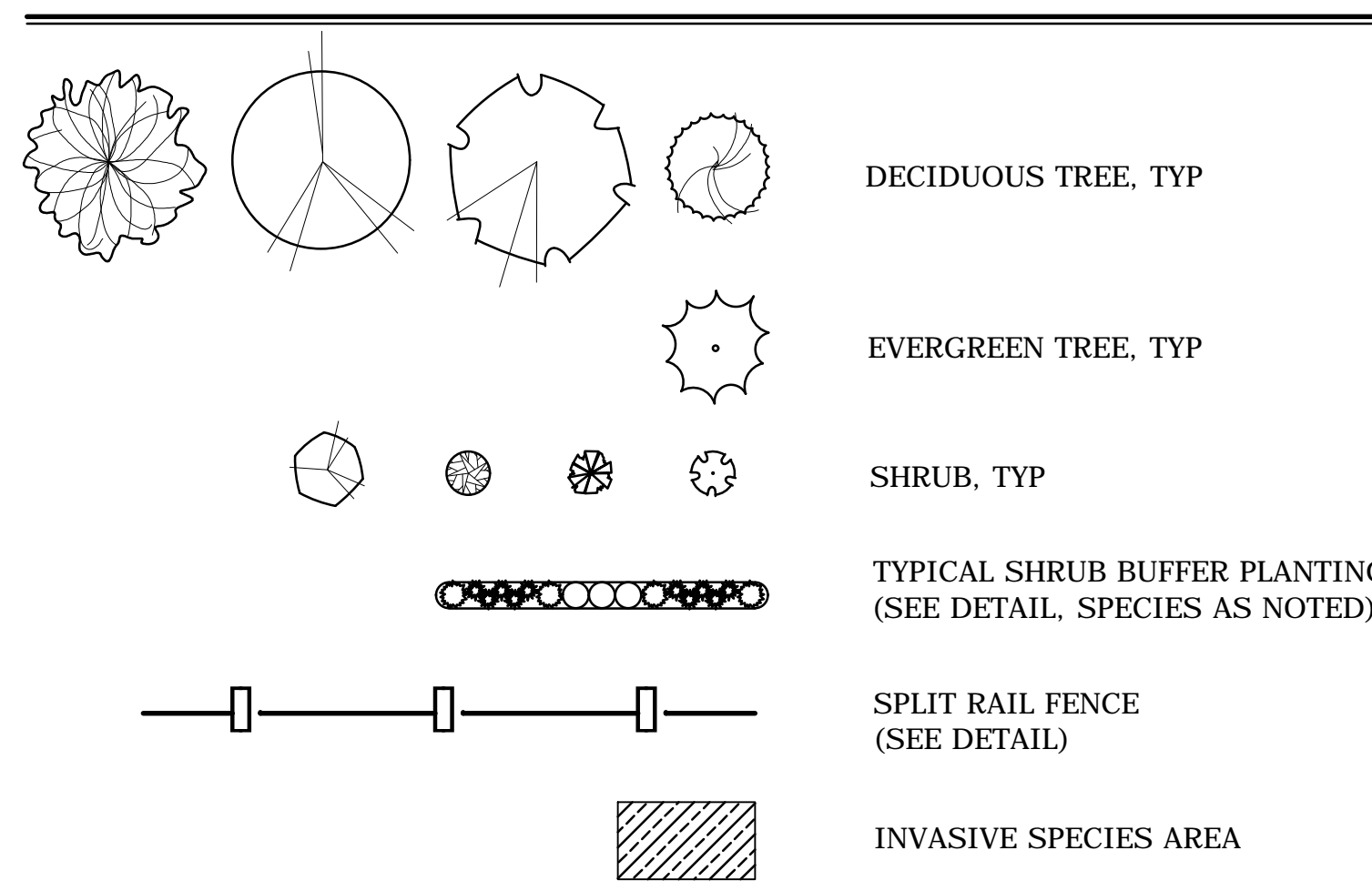
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WETLAND BUFFER PLANTS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	0	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	0	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	0	Comptonia peregrina	SWEET FERN	18"-24"
WB	0	Ilex verticillata	WINTERBERRY	18"-24"
VC	0	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"

PLANTING LEGEND:



SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS

PLANT SCHEDULE:

DECIDUOUS TREES

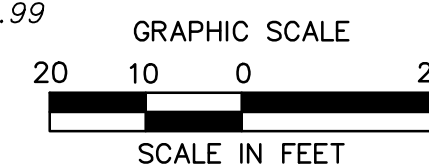
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	0	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	0	Acer x Freemannii 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	0	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	0	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

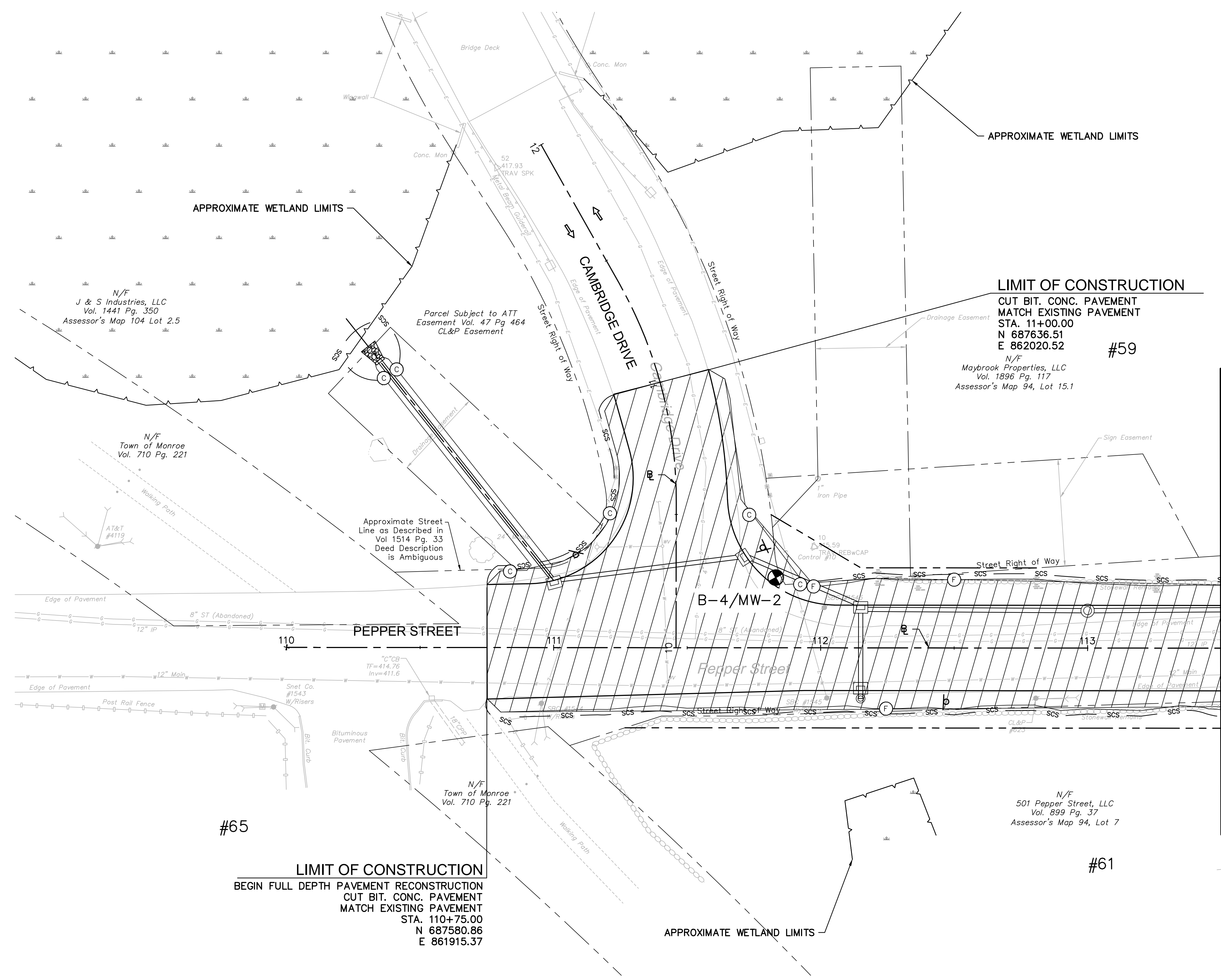
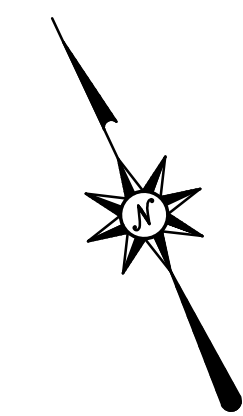
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	0	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

SHRUBS AND ORNAMENTAL GRASSES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	1	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	0	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	0	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	0	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	0	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	0	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JC	0	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VD	0	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.



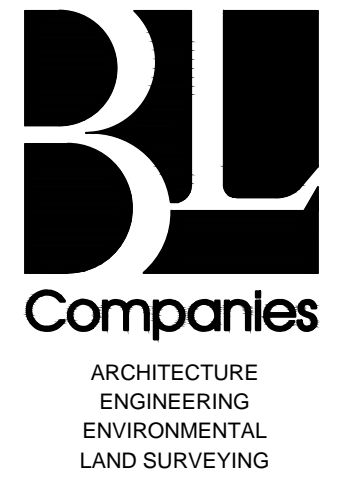
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- FILL/CUT APPROXIMATE SLOPE LIMITS
 - DIRECTION OF TRAVEL
 - SEDIMENTATION CONTROL SYSTEM
 - MONITORING WELL LOCATION
 - BORING LOCATION
 - LLAOEC-A



MATCH LINE STA. 113+50
SHEET EV-3

LIMIT OF CONSTRUCTION
 BEGIN FULL DEPTH PAVEMENT RECONSTRUCTION
 CUT BIT. CONC. PAVEMENT
 MATCH EXISTING PAVEMENT
 STA. 110+75.00
 N 687580.86
 E 861915.37

LIMIT OF CONSTRUCTION
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 MATCH EXISTING PAVEMENT
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 E 862020.52
#59
 N/F
 Maybrook Properties, LLC
 Vol. 1896 Pg. 117
 Assessor's Map 94, Lot 15.1

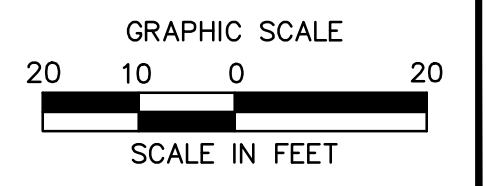


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ROADWAY RECONSTRUCTION
 PEPPER STREET
 MONROE, CONNECTICUT

REVISIONS	
No.	Date

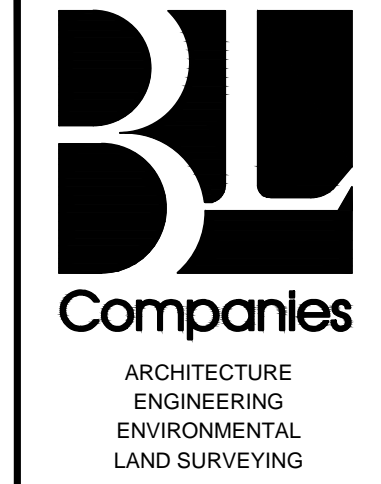
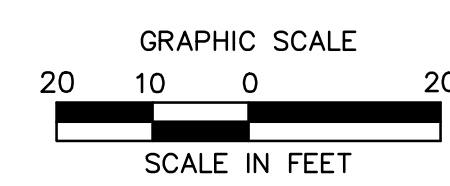
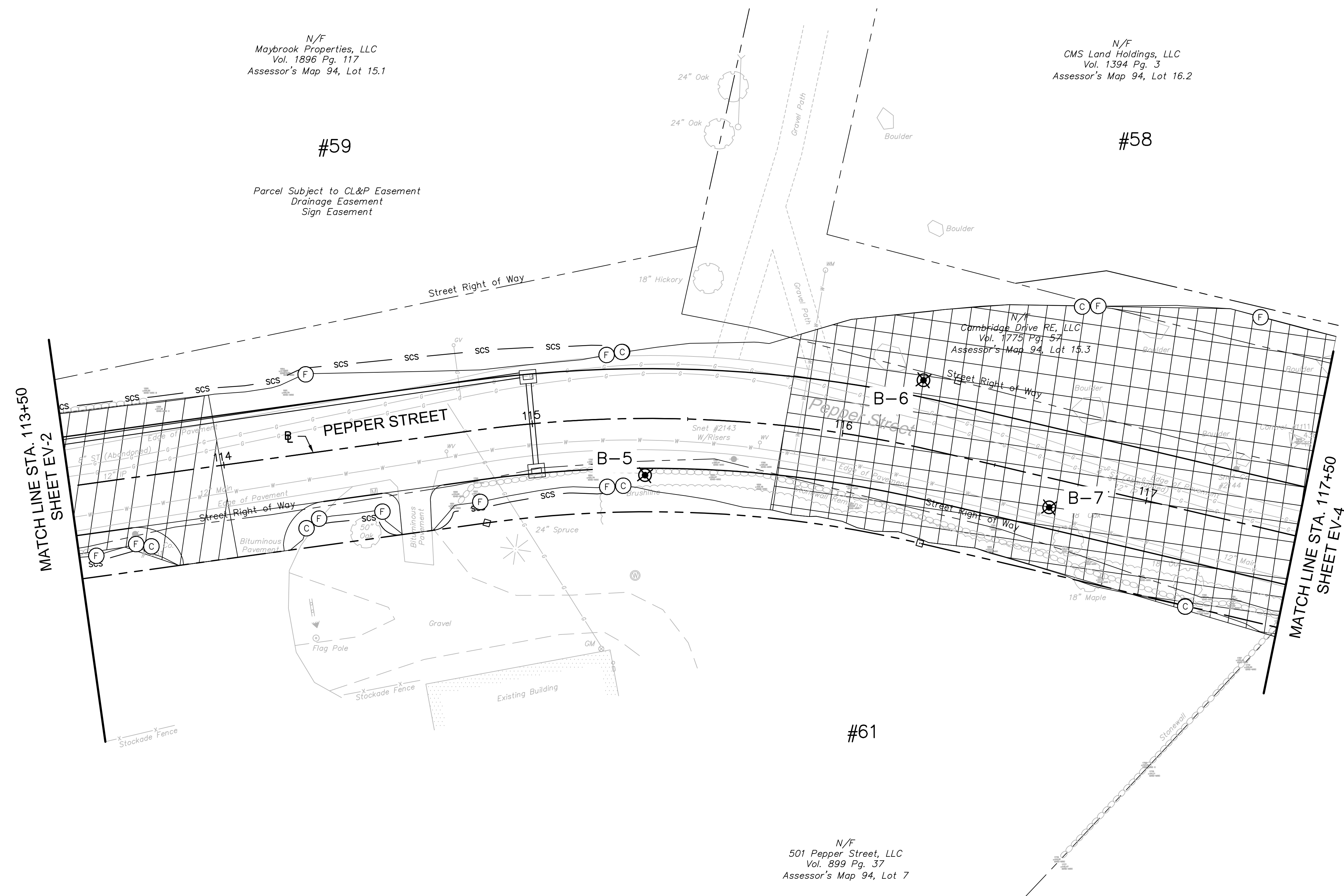
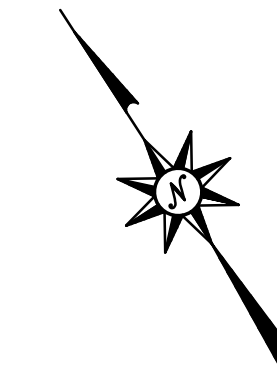
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Drawn	C.L.M.
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Date	06/26/2019
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Sheet No.	EV-2



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LEGEND:

- (FC)— FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS — SEDIMENTATION CONTROL SYSTEM
- ⊙ MONITORING WELL LOCATION
- ⊕ BORING LOCATION
- [Grid Pattern] AOEC-2
- [Diagonal Lines] LLAOEC-A



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ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

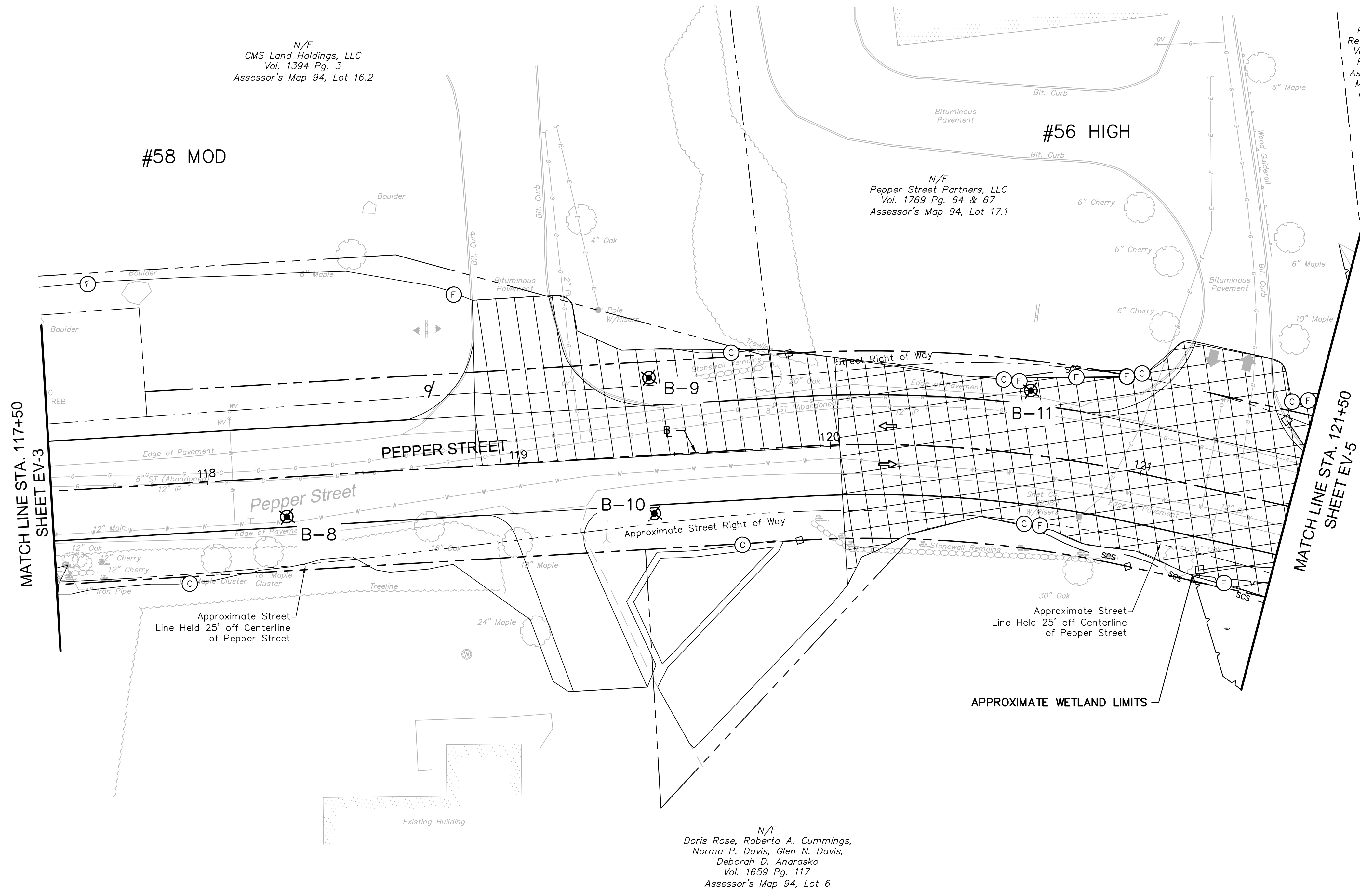
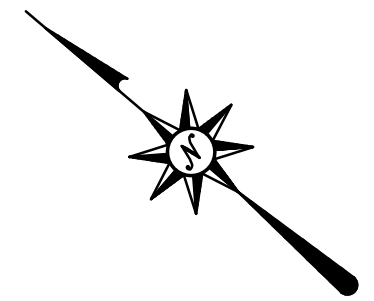
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Drawn			C.L.M.
Checked			
Approved			
Scale			1"=20'
Project No.			12C4326
Date			06/26/2019
CAD File:			TEV12C432601

Title
SOIL AREA OF ENVIRONMENTAL CONCERN

Sheet No.
EV-3

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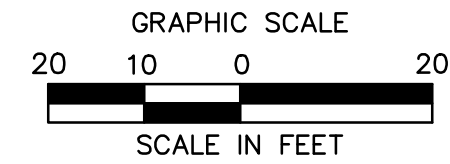
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-  DIRECTION OF TRAVEL
-  SEDIMENTATION CONTROL SYSTEM
-  MONITORING WELL LOCATION
-  BORING LOCATION
-  AOEC-3
-  LLAOEC-B



ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT



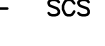


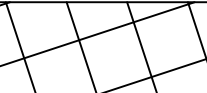

REVISIONS	No.	Date	Desc.

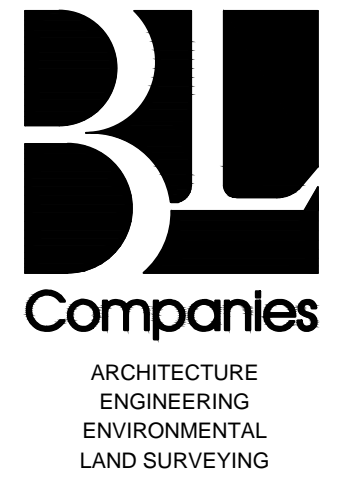
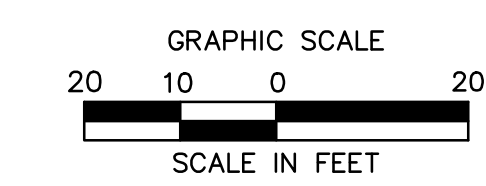
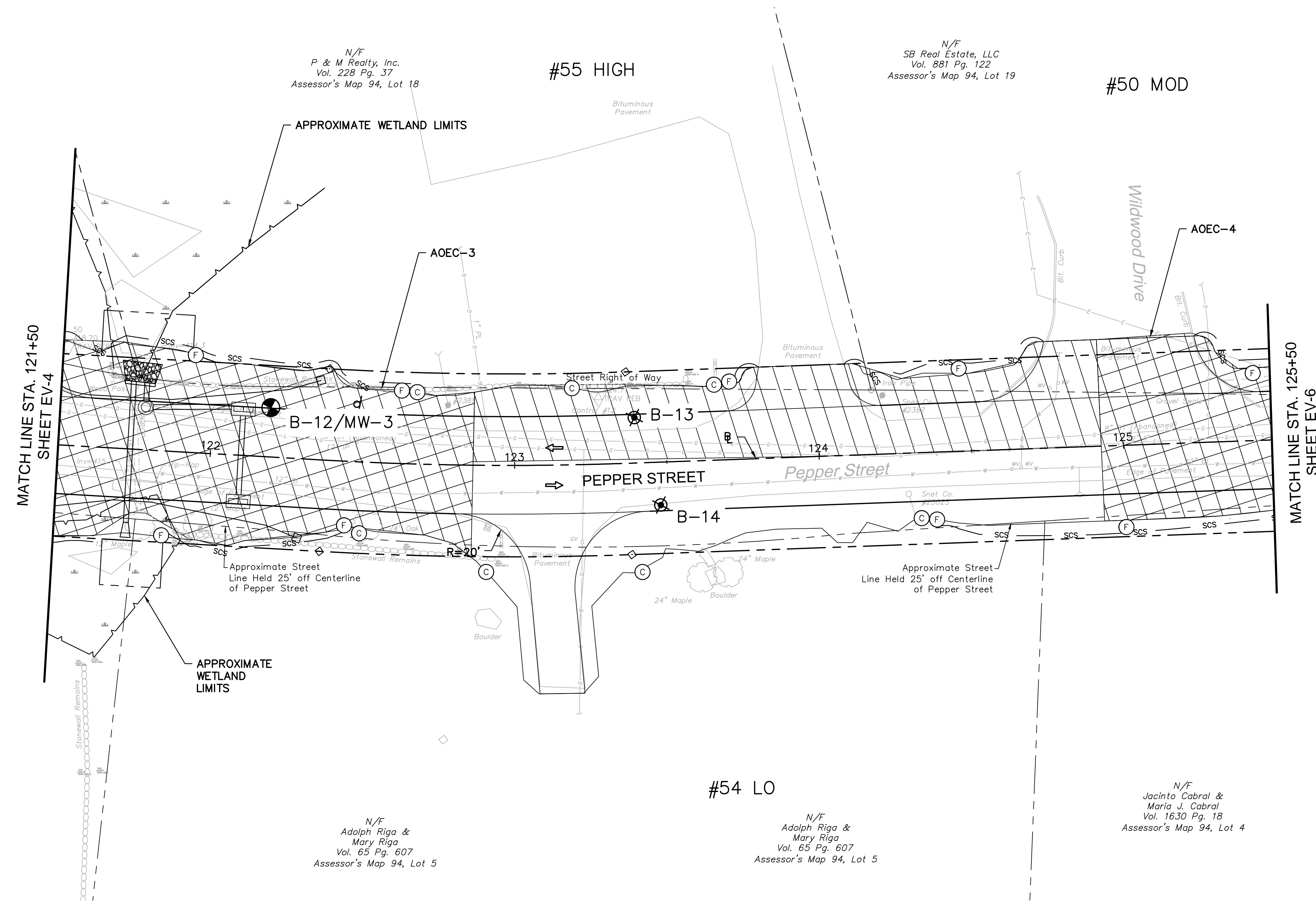
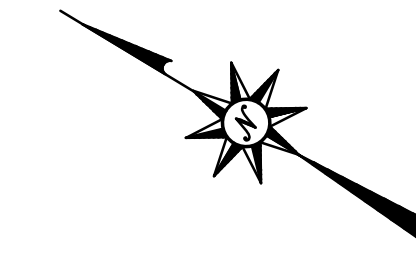
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Date	06/26/2019
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Sheet No.	EV-4



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LEGEND:

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-  DIRECTION OF TRAVEL
-  SEDIMENTATION CONTROL SYSTEM
-  MONITORING WELL LOCATION
-  BORING LOCATION
-  AOEC-3 AND 4
-  LLAOEC-A



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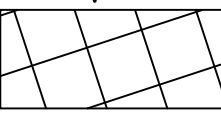
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS	No.	Date	Desc.

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Drawn: C.L.M.
Checked:
Approved:
Scale: 1"=20'
Project No.: 12C4326
Date: 06/26/2019
CAD File: TEV12C432601

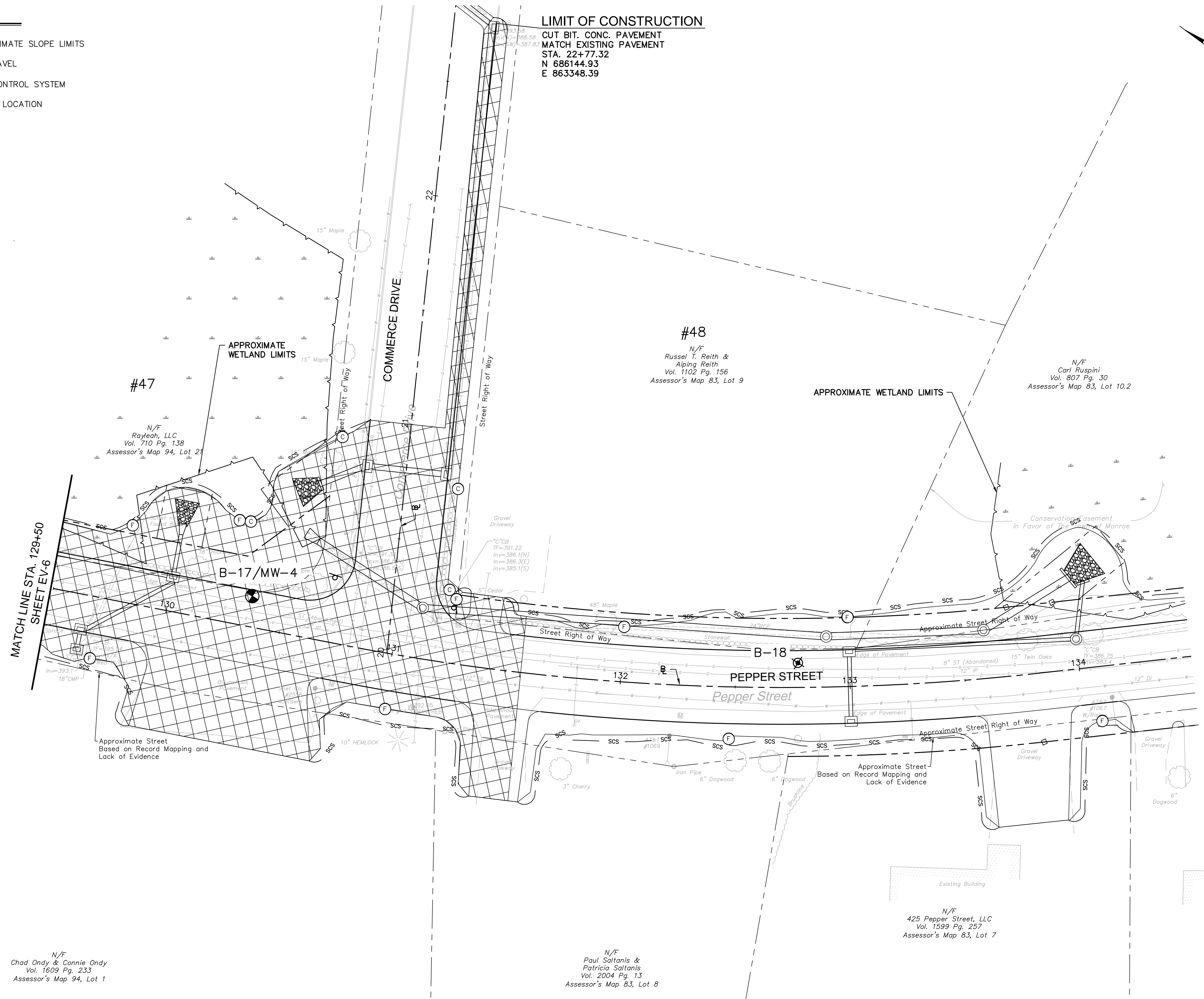
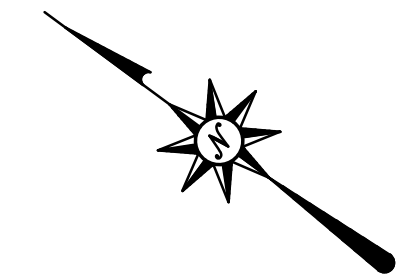
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Sheet No.: **EV-5**

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-  DIRECTION OF TRAVEL
-  SEDIMENTATION CONTROL SYSTEM
-  MONITORING WELL LOCATION
-  BORING LOCATION
-  AOEC-5

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 E 863348.39

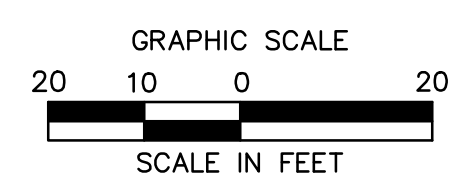


MATCH LINE STA. 129+50
 SHEET EV-6

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 Chad Ondy & Connie Ondy
 Vol. 1609 Pg. 233
 Assessor's Map 94, Lot 1

N/F
 Paul Saltanis &
 Patricia Saltanis
 Vol. 2004 Pg. 13
 Assessor's Map 83, Lot 8

N/F
 425 Pepper Street, LLC
 Vol. 1599 Pg. 257
 Assessor's Map 83, Lot 7



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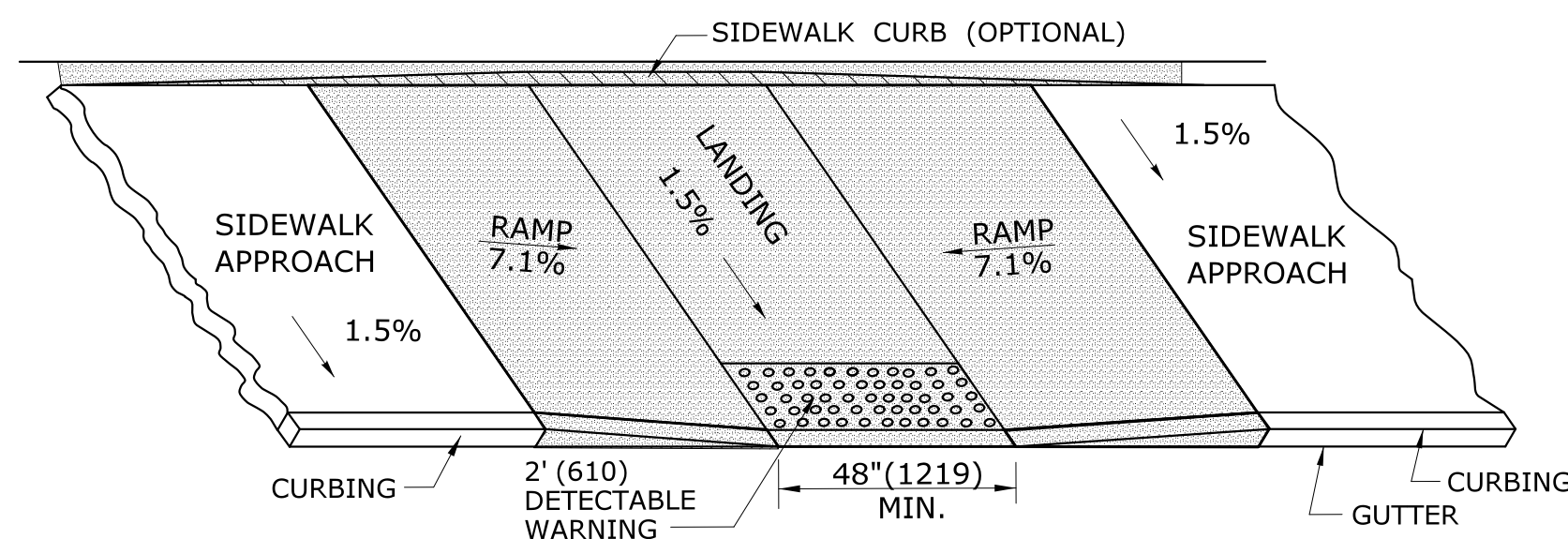
**ROADWAY RECONSTRUCTION
 PEPPER STREET
 MONROE, CONNECTICUT**

REVISIONS	
No.	Date

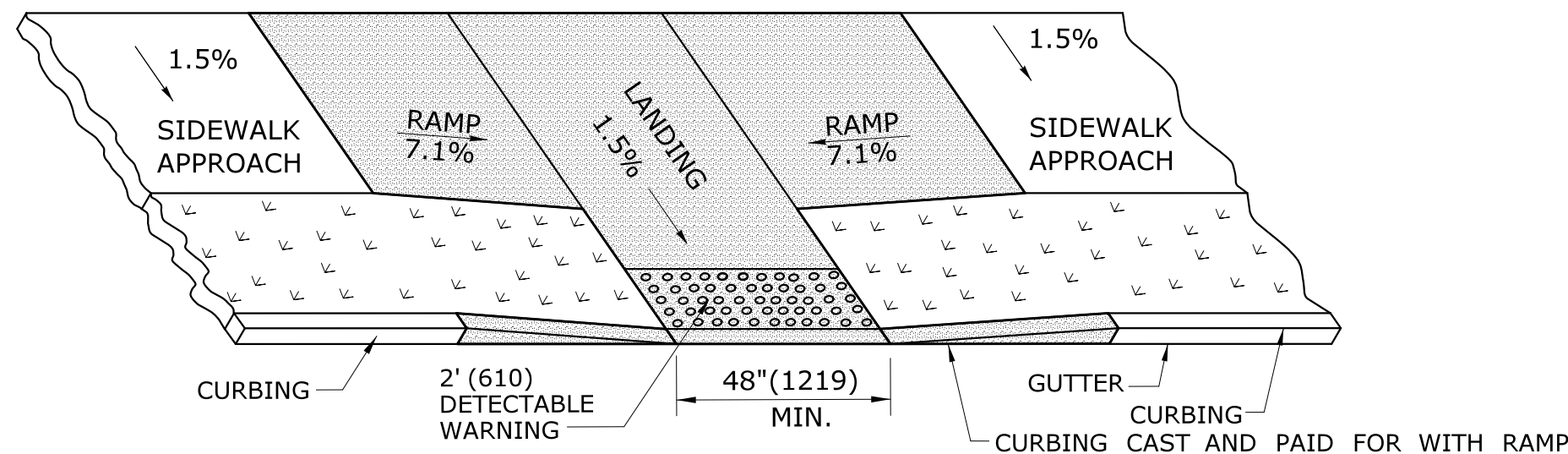
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Sheet No.	EV-7

EV-7

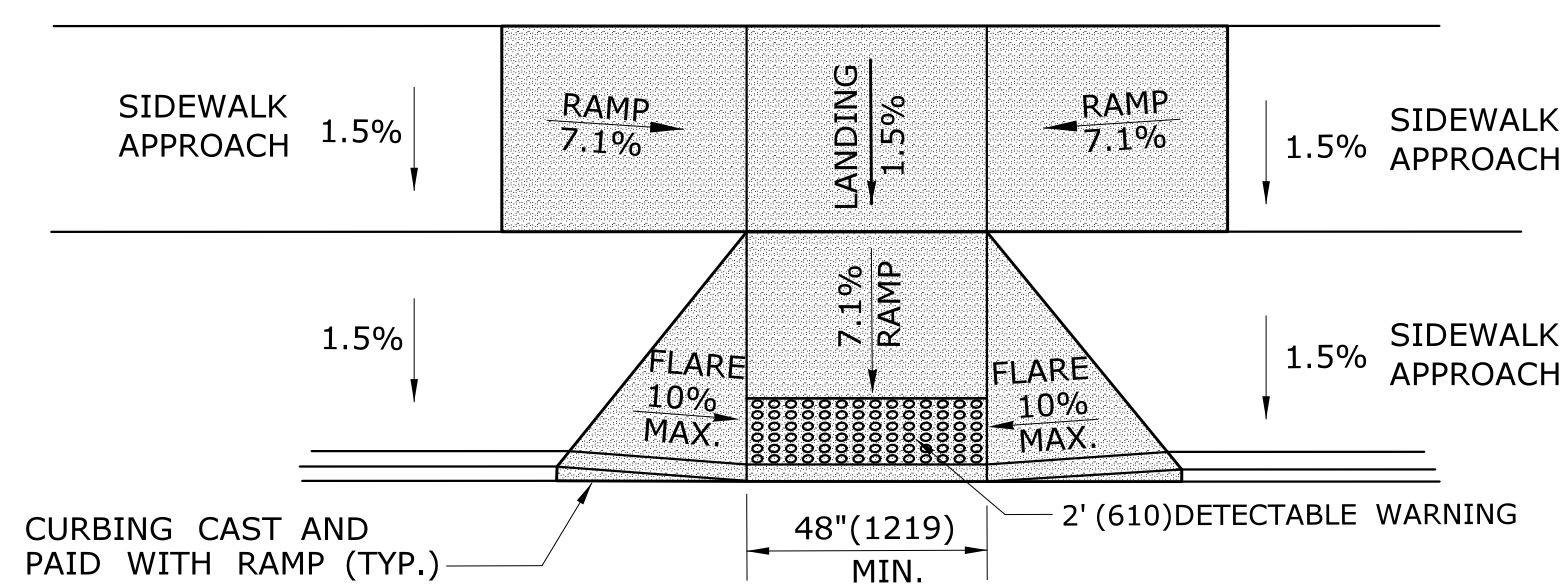
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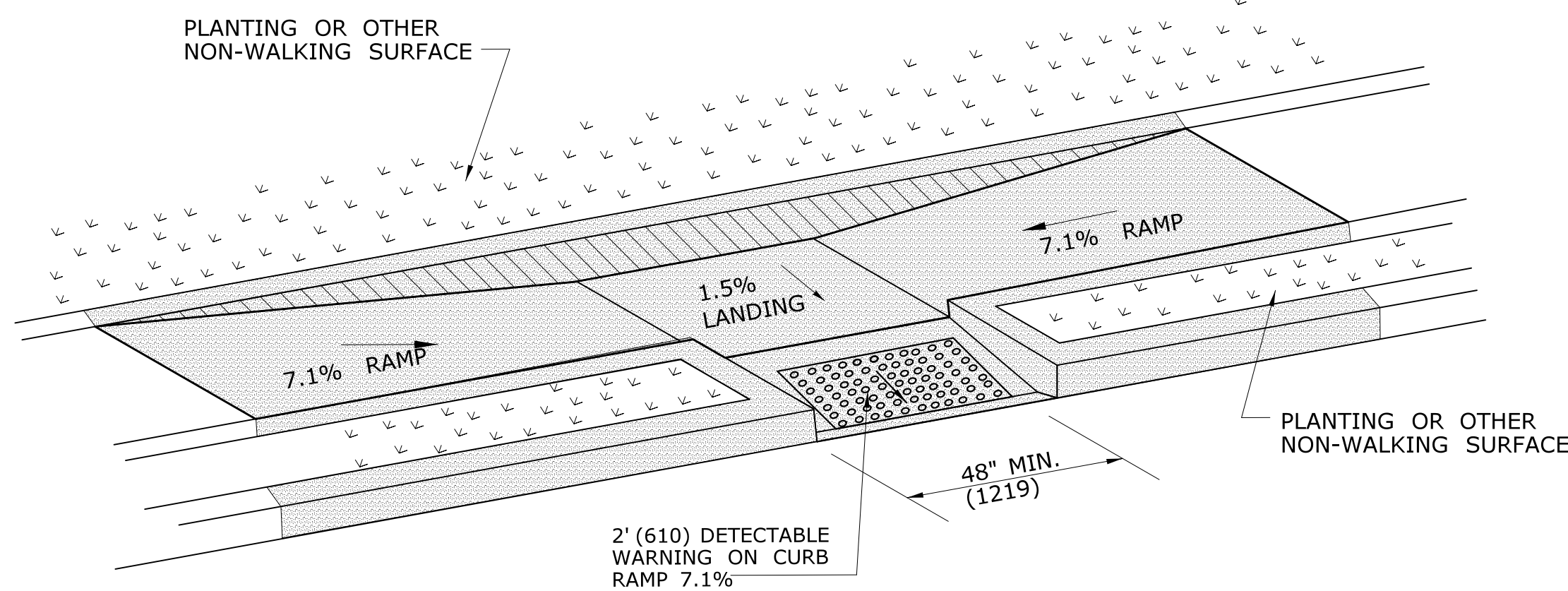
PARALLEL SIDEWALK RAMP (TYPE 1) NO UTILITY STRIP



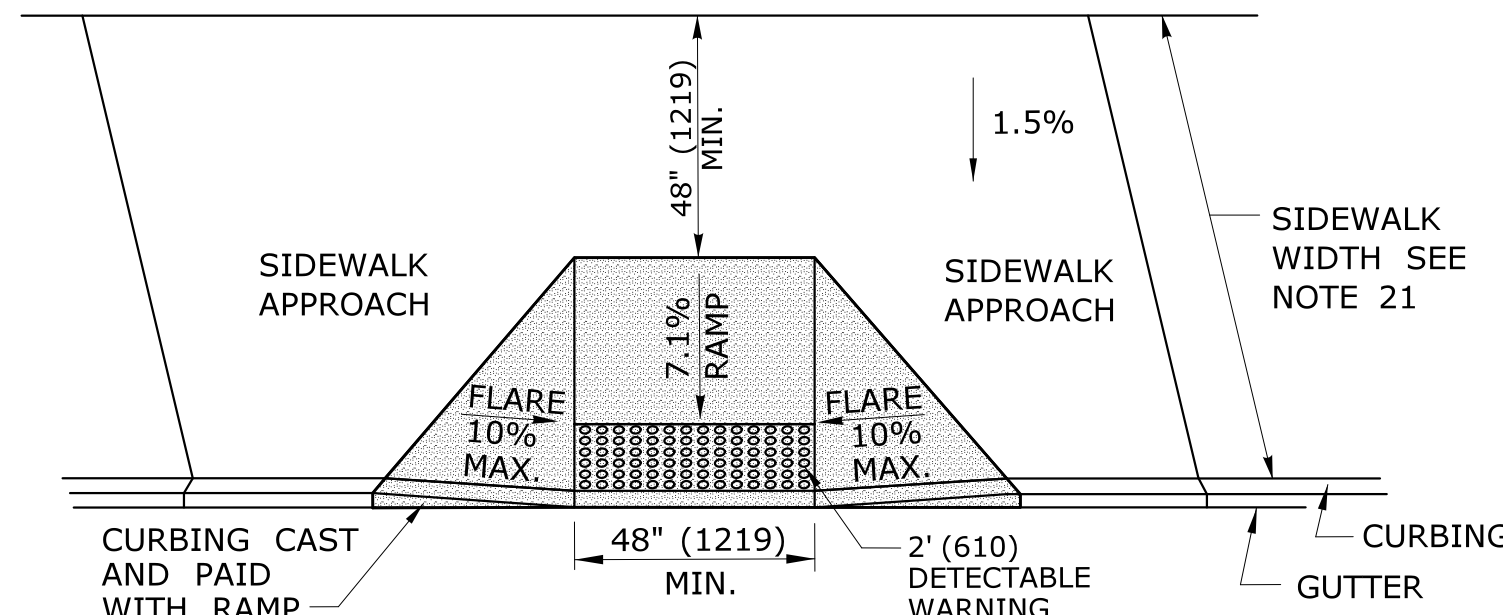
PARALLEL SIDEWALK RAMP (TYPE 1a) WITH UTILITY / GRASS STRIP



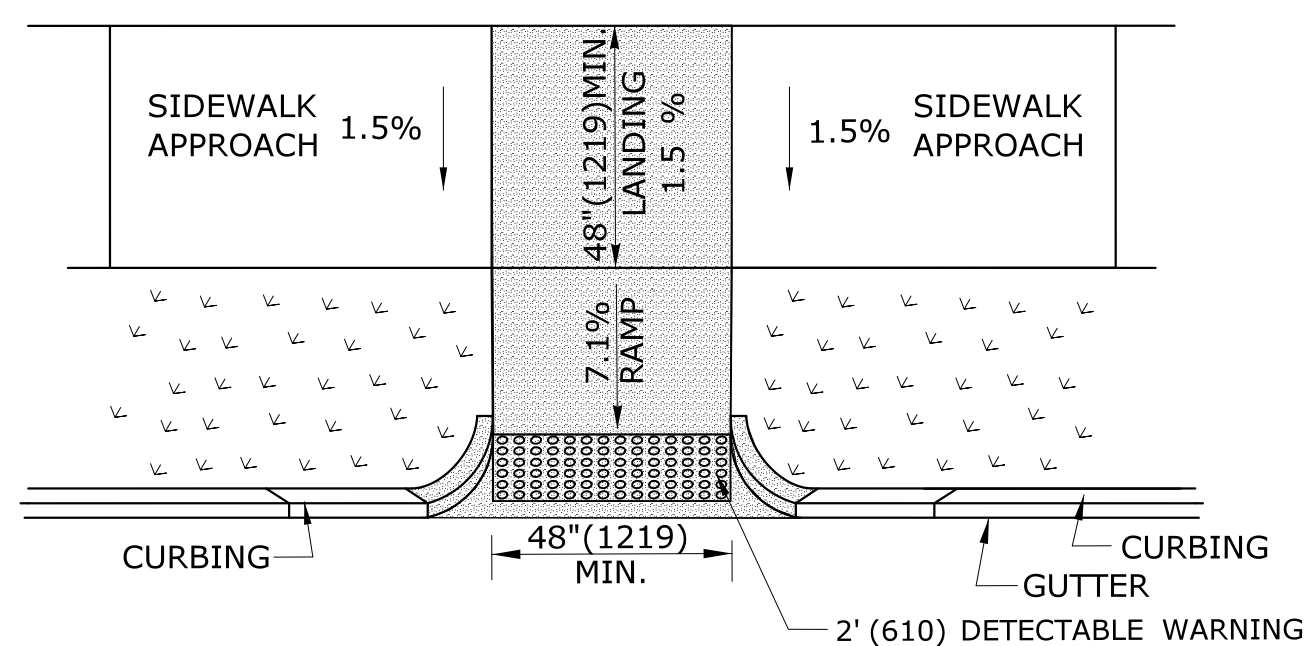
PARALLEL/PERPENDICULAR SIDEWALK RAMP NO UTILITY/GRASS STRIP (TYPE 1b)



PARALLEL SIDEWALK RAMP (TYPE 1c) WITH UTILITY / GRASS STRIP

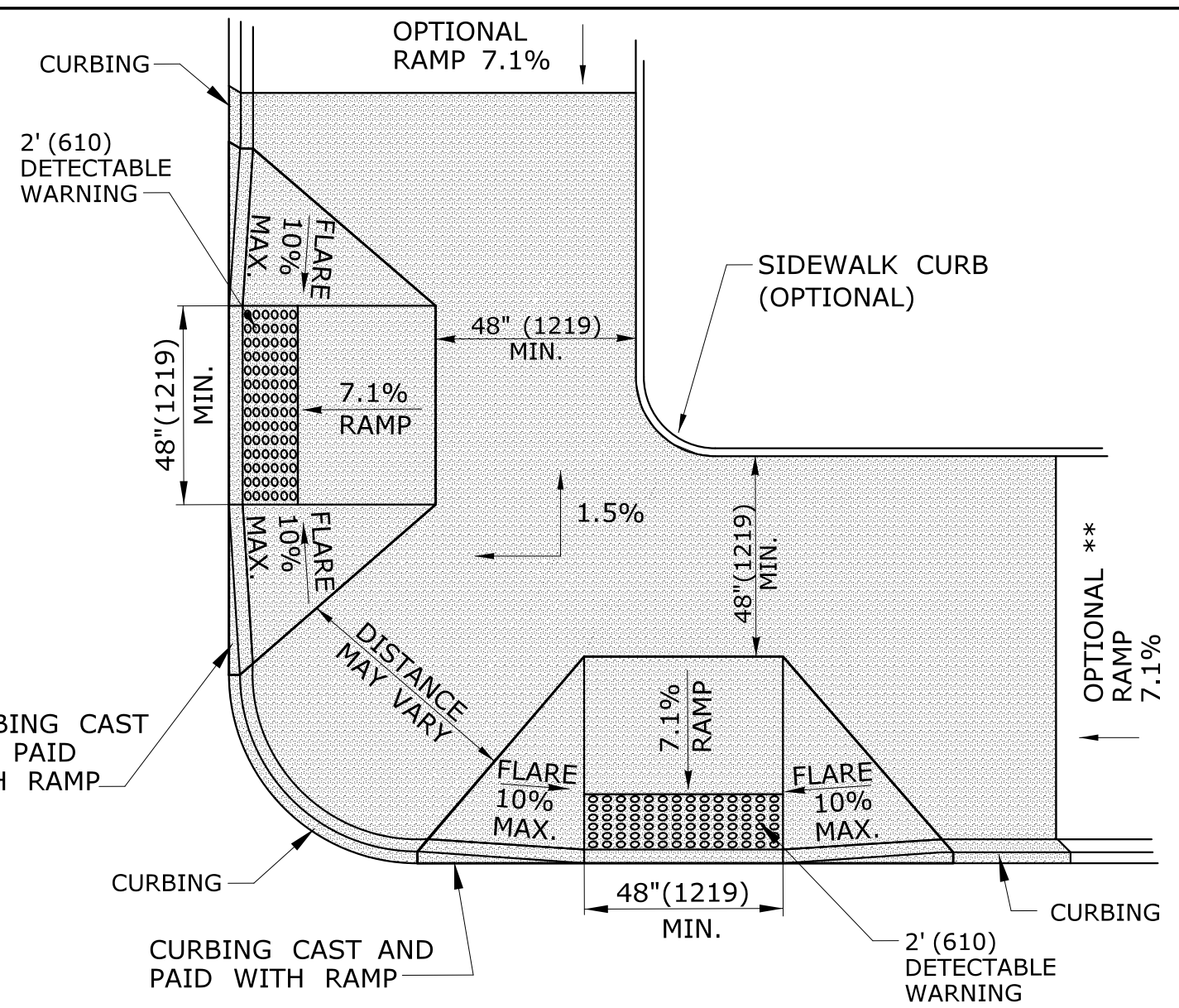


PERPENDICULAR SIDEWALK RAMP W/ 48" (1219) MIN. BY PASS LANDING (TYPE 2)



PERPENDICULAR SIDEWALK RAMP W/CURB RETURNS / UTILITY GRASS STRIP (TYPE 2a)

* OPTIONAL FLARE ONE SIDE OF RAMP

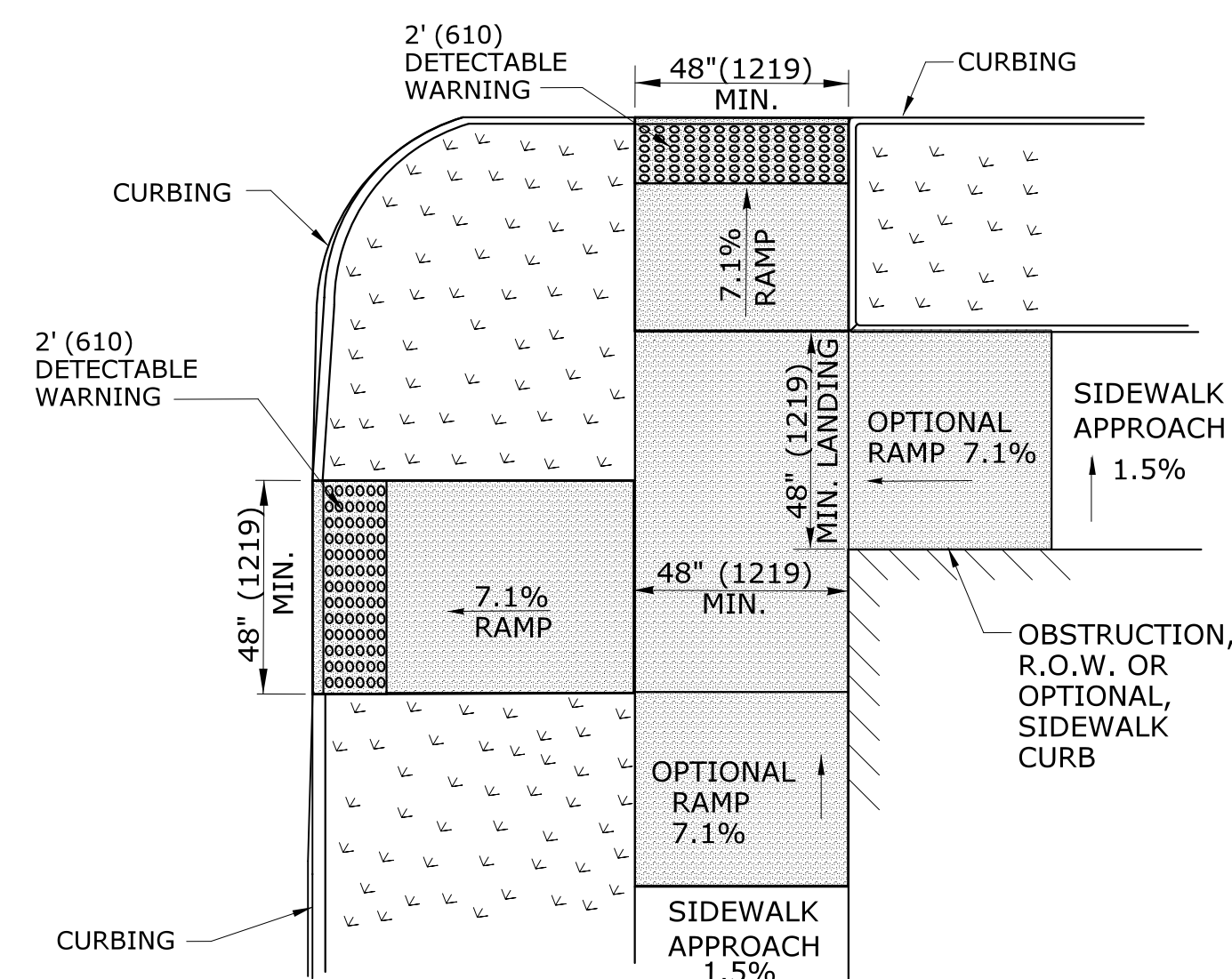


DUAL PERPENDICULAR SIDEWALK RAMP (TYPE 3)

SEE NOTES 19
* OPTIONAL CURB RETURN ON ONE SIDE OF RAMP
** SEE NOTE 23

GENERAL NOTES:

1. MAXIMUM SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE SIDEWALK RAMP SHOULD NOT EXCEED 5%. THE MAXIMUM GRADE DIFFERENCE BETWEEN THE GUTTER AND CURB RAMP SHALL NOT EXCEED 13%. SEE DETAIL 1 ON SHEET 4.
2. RAMP GRADE SHALL BE UNIFORM, FREE OF SAGS AND ABRUPT GRADE CHANGES. RUNNING SLOPES OF RAMPS SHALL NOT EXCEED 8.33% AND SHALL NOT EXCEED 15' (4.5m) WITHOUT PROVIDING A LANDING.
3. ALL RAMPS SHALL BE CONSTRUCTED OF CLASS "F" CONCRETE IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS.
4. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP. THE SURFACE OF ALL SIDEWALK RAMPS SHALL BE STABLE, FIRM AND SLIP RESISTANT. SURFACE DISCONTINUITIES SHALL NOT EXCEED 1/2" (13) MAX. VERTICAL DISCONTINUITIES BETWEEN 1/4" (6.4) AND 1/2" (13) MAX. SHALL BE BEVELED 1:2 MINIMUM APPLIED ACROSS THE ENTIRE LEVEL CHANGE.
5. DIAGONAL SIDEWALK RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES. DIAGONAL AND PERPENDICULAR RAMPS SHALL HAVE THE RAMP CUT PERPENDICULAR TO THE TANGENT OF THE CURB RADIUS FOR THE DESIGNATED ACCESSIBLE ROUTE. BOTH LONGITUDINAL SIDES OF THE RAMP SHOULD BE THE SAME LENGTH. SKEWED RAMPS SHOULD BE AVOIDED. FLARES ARE NOT CONSIDERED PART OF PEDESTRIAN ACCESS ROUTE. DIAGONAL RAMPS SHOULD NOT BE INSTALLED WHERE CURB RADII IS LESS THAN 20'(6096).
6. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT. 8.3% MAXIMUM SLOPE MAY NOT BE ACHIEVABLE DUE TO EXISTING SIDEWALK GRADE. IN RECOGNITION OF THIS, A LIMIT OF 15' (4572) FOR REMOVAL SHALL BE USED UNLESS OTHERWISE SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER. SAW CUT REQUIRED FOR DUMMY JOINTS SHALL BE INCLUDED IN THE COST OF "CONCRETE SIDEWALK RAMP" OR "CONCRETE SIDEWALK".
7. EXPANSION JOINTS IN CONCRETE SHALL MATCH THOSE IN ADJACENT SIDEWALKS BUT IN NO CASE SHALL THE SPACING BETWEEN EXPANSION JOINTS EXCEED 12' (3658) UNLESS OTHERWISE NOTED.
8. CONCRETE SIDEWALK RAMPS, SHALL BE PAID FOR UNDER THE ITEM "CONCRETE SIDEWALK RAMP", AS DEFINED BY THE CONSTRUCTION LIMITS ON THE PLANS AND SHALL BE FIELD VERIFIED.
9. SIDEWALK RAMPS SHALL BE CONSTRUCTED WITH THE TOE AT THE GUTTER CAST INTEGRALLY WITH RAMP UNLESS DIRECTED OTHERWISE BY THE ENGINEER (SEE TYPICAL SECTION ON SHEET 3). CURB REMOVAL AND CAST IN PLACE CURBING REQUIRED FOR THE RAMP, SHALL BE INCLUDED WITH PAY ITEM "CONCRETE SIDEWALK RAMP". CURBING OUTSIDE LIMITS OF RAMP OR LANDING SHOWN ON SHEET 3 SHALL BE CONSTRUCTED AND PAID FOR IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS.
10. PREFERRED LOCATION TO INSTALL DETECTABLE WARNING STRIP SHALL BE 6" (152) FROM THE EDGE OF ROAD ALONG THE FULL WIDTH OF THE RAMP. FOR ALTERNATE LOCATIONS, REFER TO DETECTABLE WARNING PLACEMENT DETAILS ON SHEET 4.
11. TO PERMIT WHEELCHAIR WHEELS TO ROLL BETWEEN DOMES, ALIGN DOMES ON A SQUARE GRID IN THE DIRECTION OF RUNNING SLOPE (PERPENDICULAR TO CURB OR SLOPE BREAK). THE TRANSITION FROM RAMP TO GUTTER SHALL BE FLUSH WITHOUT A LIP.
12. WHERE COMMERCIAL DRIVEWAYS ARE PROVIDED WITH TRAFFIC SIGNALS AND THE SIDEWALK IS CONTINUOUS THROUGH DRIVEWAY, DETECTABLE WARNINGS ARE REQUIRED AT THE JUNCTION BETWEEN THE PEDESTRIAN ROUTE AND DRIVEWAY.
13. CONSTRUCT A SIDEWALK CURB WHEN THERE IS INSUFFICIENT BUFFER AVAILABLE TO GRADE OR WHEN CALLED FOR IN PLANS. PAID FOR WITH SIDEWALK RAMP WHEN REQUIRED FOR RAMP.
14. THE TOP AND BOTTOM OF RAMPS SHOULD BE PROVIDED WITH A 4' x 4' (1219 x 1219) MINIMUM LEVEL LANDING AREA WITH A CROSS SLOPE LESS THAN OR EQUAL TO 2% IN ANY DIRECTION.
15. UTILITY POLES, LUMINAIRE, PEDESTRIAN OR SIGNAL POLES, GRATES, ACCESS COVERS, AND OTHER APPURTENANCES SHALL NOT BE LOCATED ON RAMPS, LANDINGS, BLENDED TRANSITIONS, AND @ GUTTERS WITHIN THE PEDESTRIAN ACCESS ROUTE.
16. APPROACH SIDEWALK WIDTHS, GRASS STRIP OR UTILITY STRIP WIDTHS MAY VARY.
17. APPROACH SIDEWALK AND LANDING CROSS SLOPE SHALL NOT EXCEED 2%.
18. THE RUNNING OR CROSS SLOPES ON LANDINGS AT MID BLOCK CROSSING MAY BE WARPED TO MEET STREET OR HIGHWAY GRADE.
19. FOR PERPENDICULAR CURB RAMPS A MIN. 4'(1.2m) x 4'(1.2m) LEVEL LANDING SHALL BE PROVIDED AT THE TOP OF CURB RAMP. WHERE THE LEVEL LANDING IS RESTRICTED AT THE BACK OF SIDEWALK THE LEVEL LANDING SHALL BE 4'(1.2m) x 5'(1.5m) WITH THE 5'(1.5m) DIMENSION PROVIDED IN THE DIRECTION OF THE RAMP RUN.
20. FOR PARALLEL CURB RAMPS, A MIN. 4'(1.2m) x 4'(1.2m) LEVEL LANDING SHALL BE PROVIDED AT THE BOTTOM OF CURB RAMP. IF THE LEVEL LANDING IS RESTRICTED ON 2 OR MORE SIDES, THE LEVEL LANDING SHALL BE 4'(1.2m) x 5'(1.5m) WITH THE 5' (1.5m) DIMENSION PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.
21. WHEN WIDTH OF SIDEWALK IS >48" AND A PERPENDICULAR SIDEWALK RAMP IS INSTALLED, THE FLARED SIDES SHALL BE 10% MAX. IF WIDTH OF SIDEWALK IS <48" THE FLARED SIDES MUST NOT EXCEED 8.33% (12:1).
22. SHADED AREAS ARE TYPICAL PAY LIMITS FOR CONCRETE SIDEWALK RAMP BUT, MAY VARY AS DIRECTED BY THE ENGINEER.
23. OPTIONAL RAMP, WHEN REQUIRED, SHALL BE PAID FOR AS PART OF CONCRETE SIDEWALK RAMP.



DUAL PERPENDICULAR SIDEWALK RAMP (TYPE 3a) WITH UTILITY / GRASS STRIP

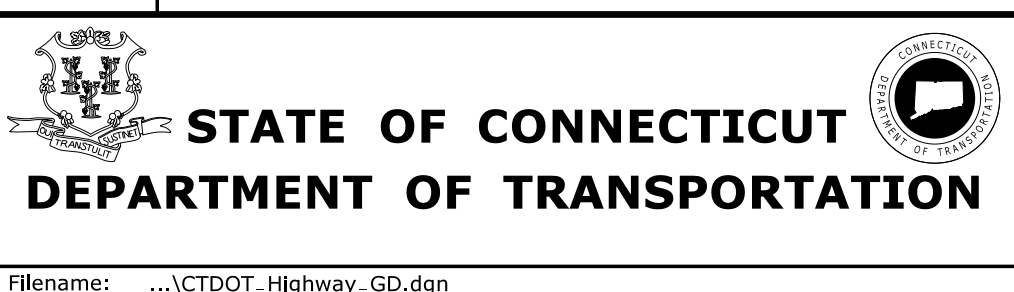
SEE NOTE 20

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

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
1	7/13	Created new sheets (4 total).	

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MGB/EMK
CHECKED BY:
LLF

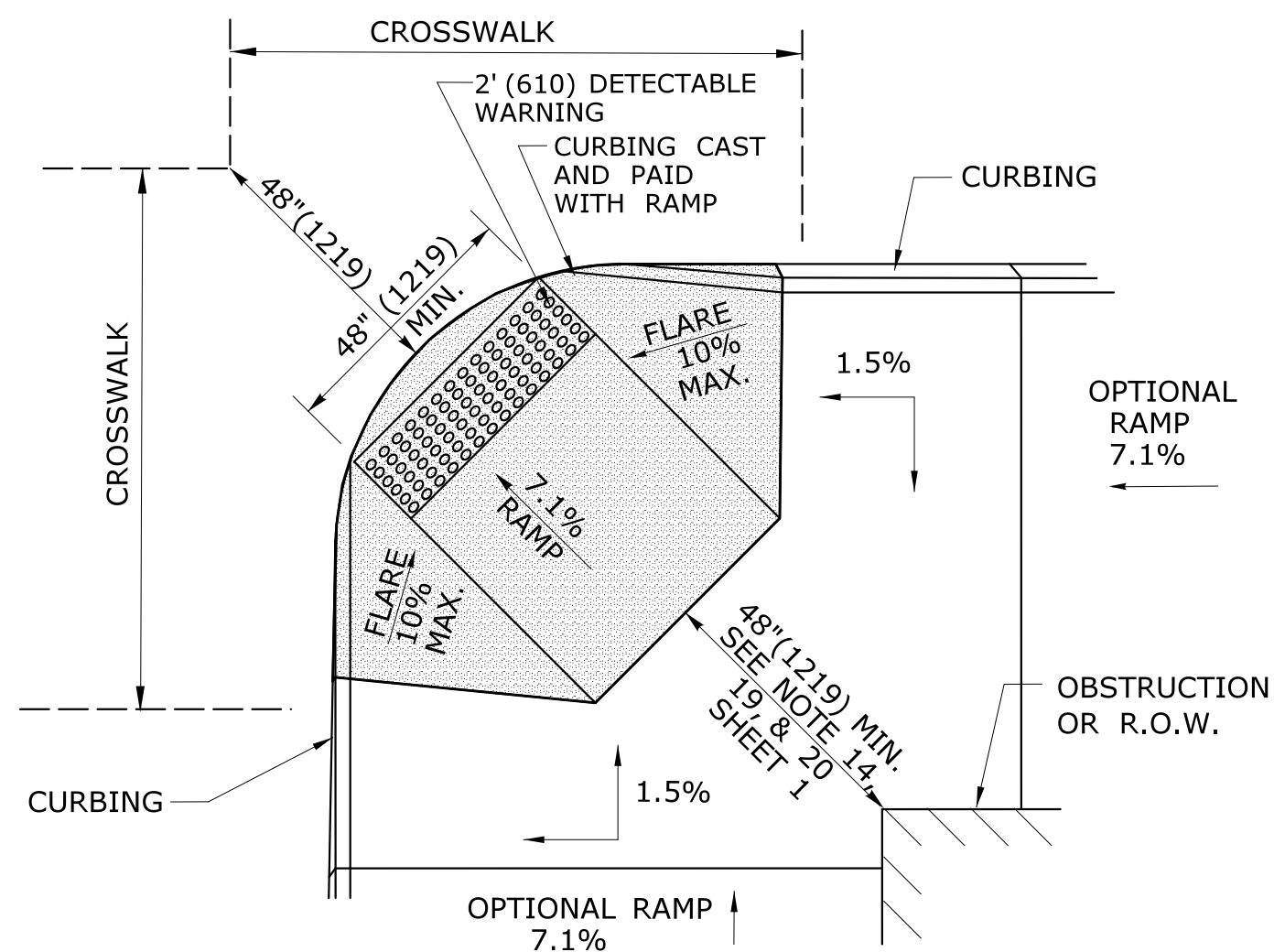


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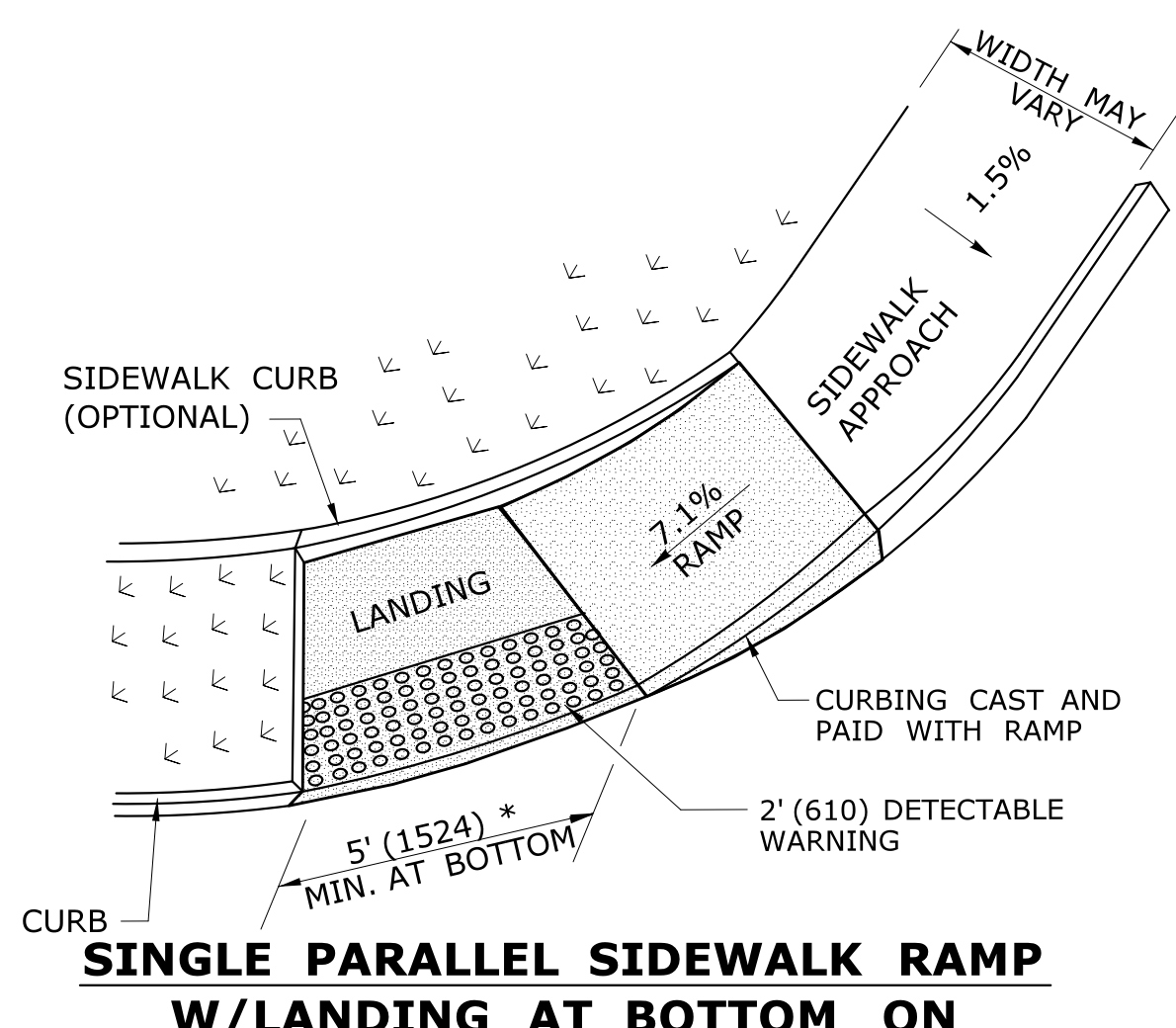
PROJECT TITLE:
**ROADWAY RECONSTRUCTION
PEPPER STREET**

TOWN:
MONROE
DRAWING TITLE:
**SIDEWALK RAMPS
SHEET 1**

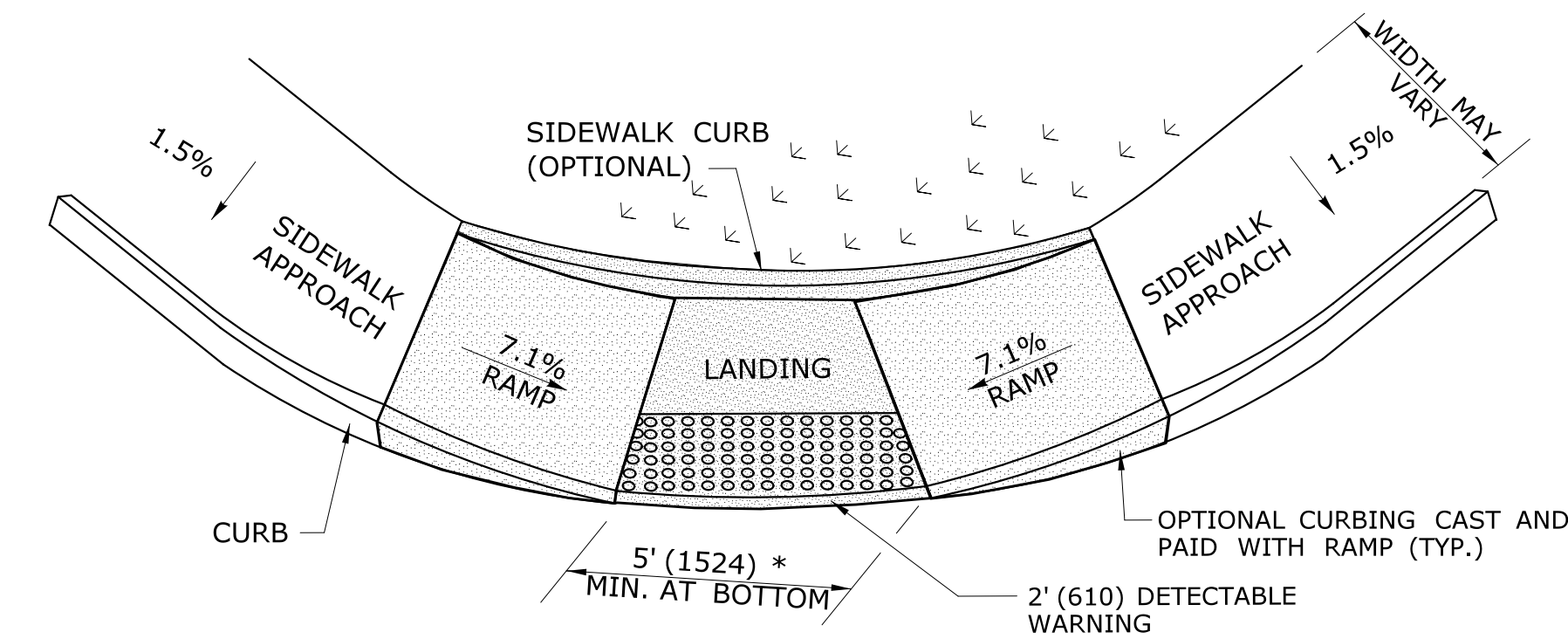
PROJECT NO.
84-109
DRAWING NO.
GS-1
SHEET NO.



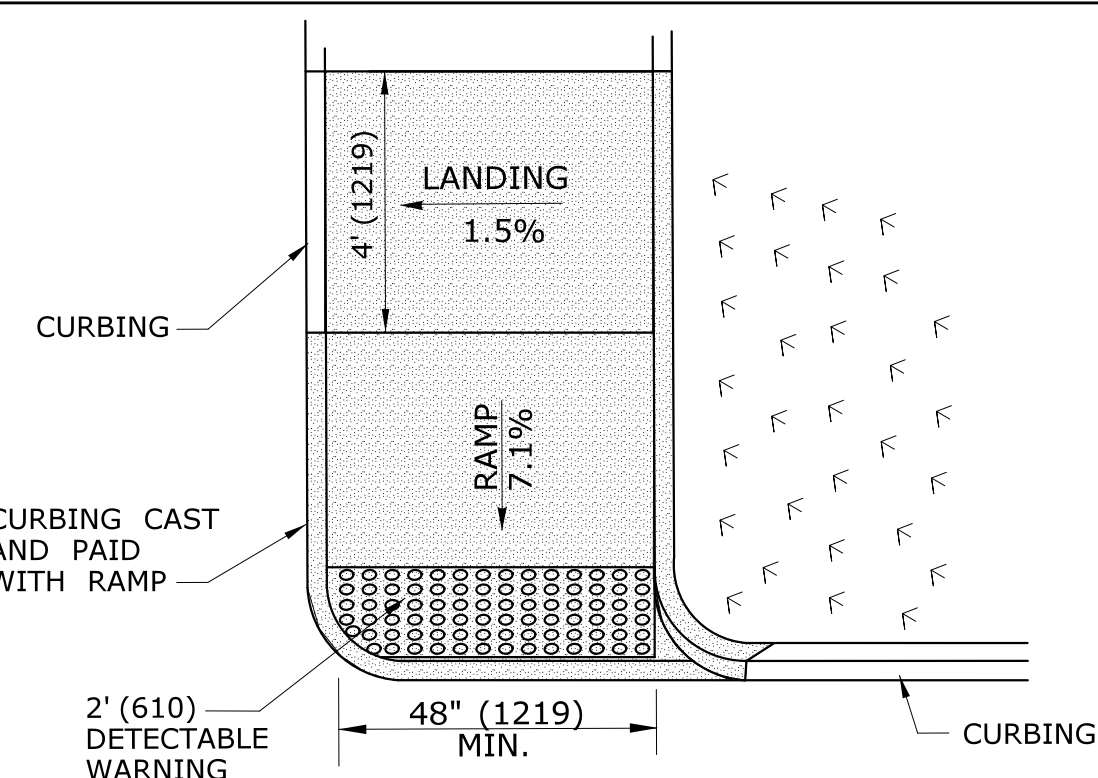
**DIAGONAL SIDEWALK RAMP (TYPE 4)
W/LANDING AT TOP**



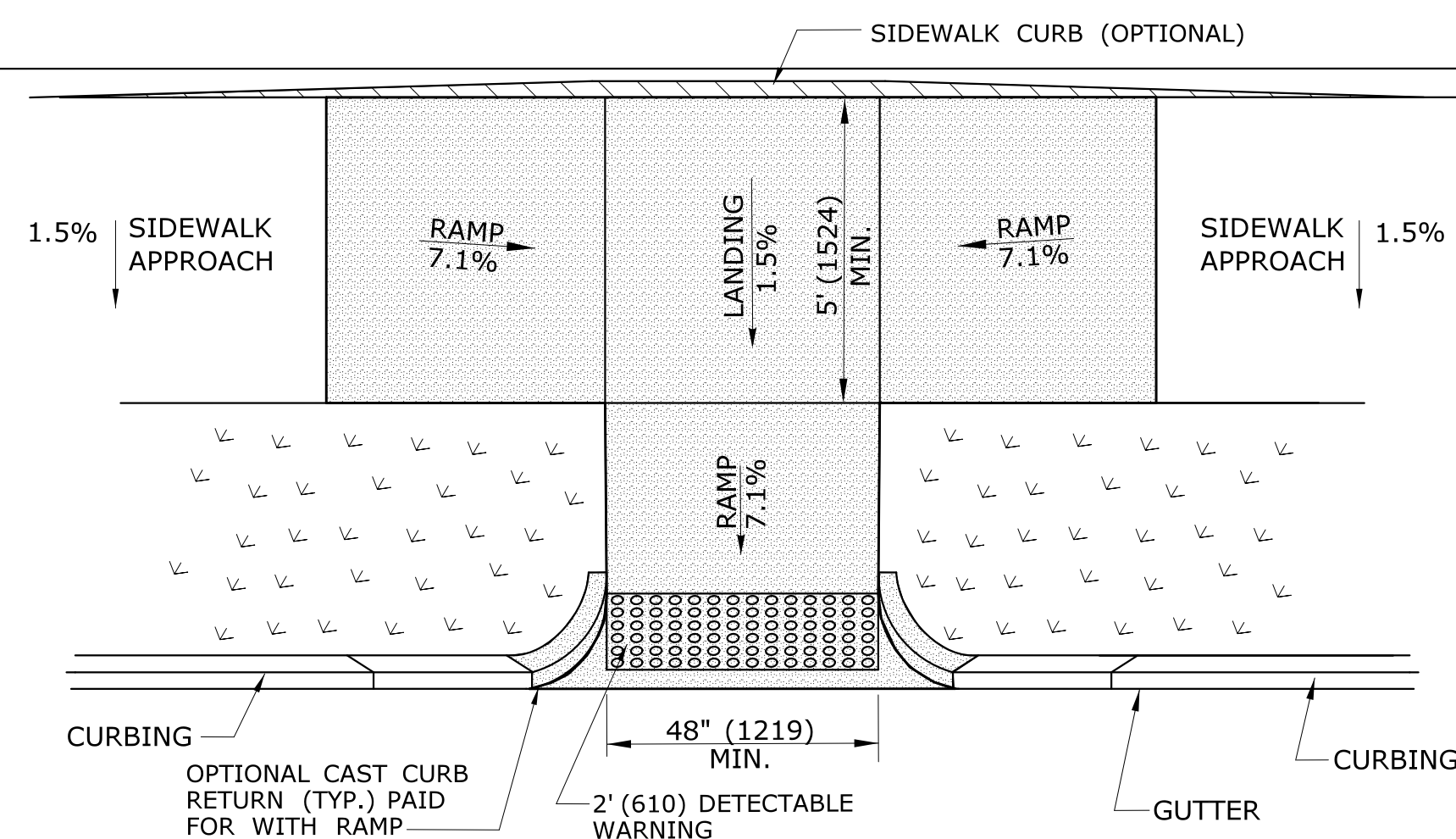
**SINGLE PARALLEL SIDEWALK RAMP
W/LANDING AT BOTTOM ON
CORNER (TYPE 4c)**
* SEE NOTE 20 SHEET 1



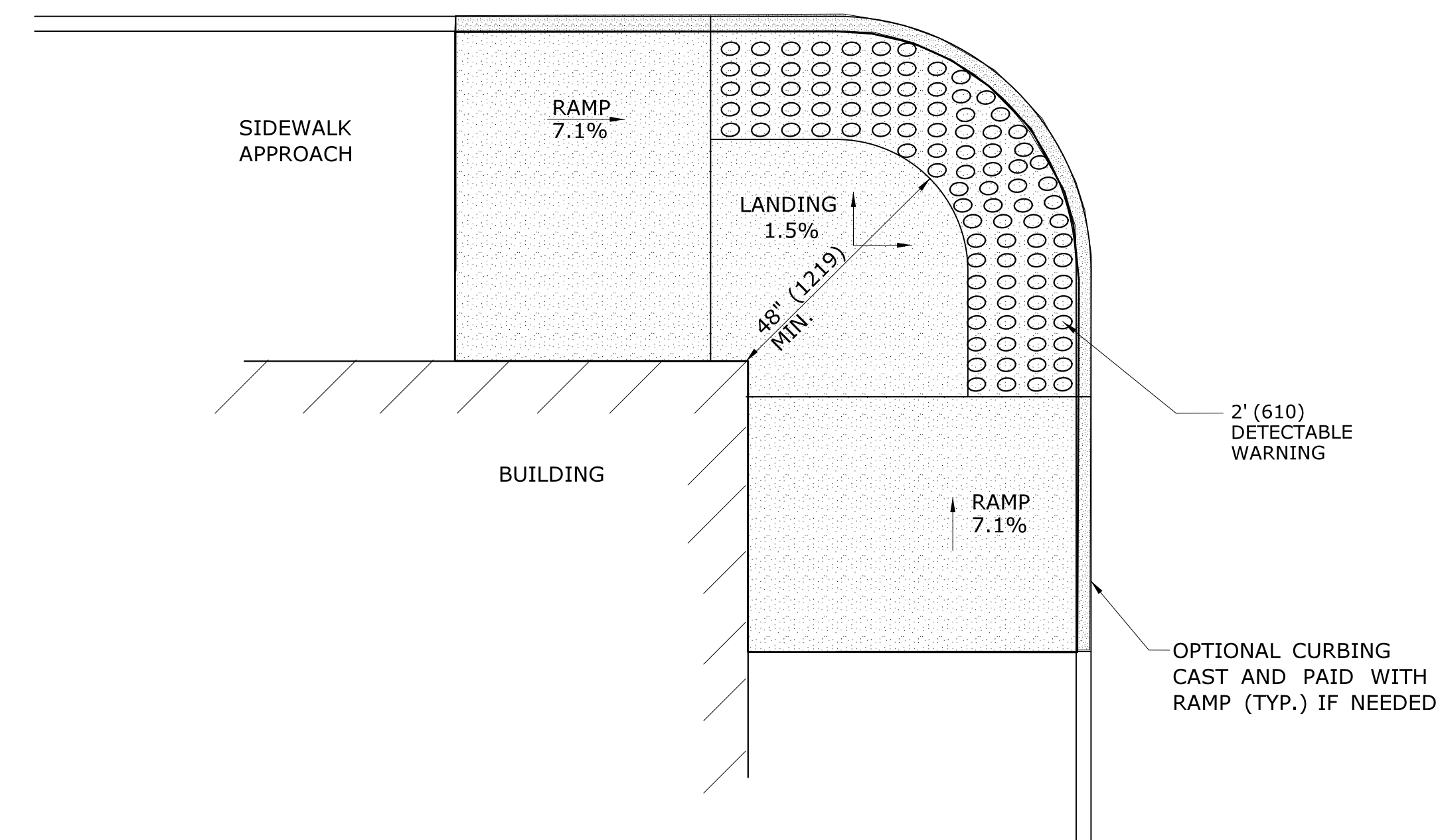
**DOUBLE PARALLEL SIDEWALK RAMP
W/LANDING AT BOTTOM ON CORNER (TYPE 4f)**
* SEE NOTE 20 SHEET 1



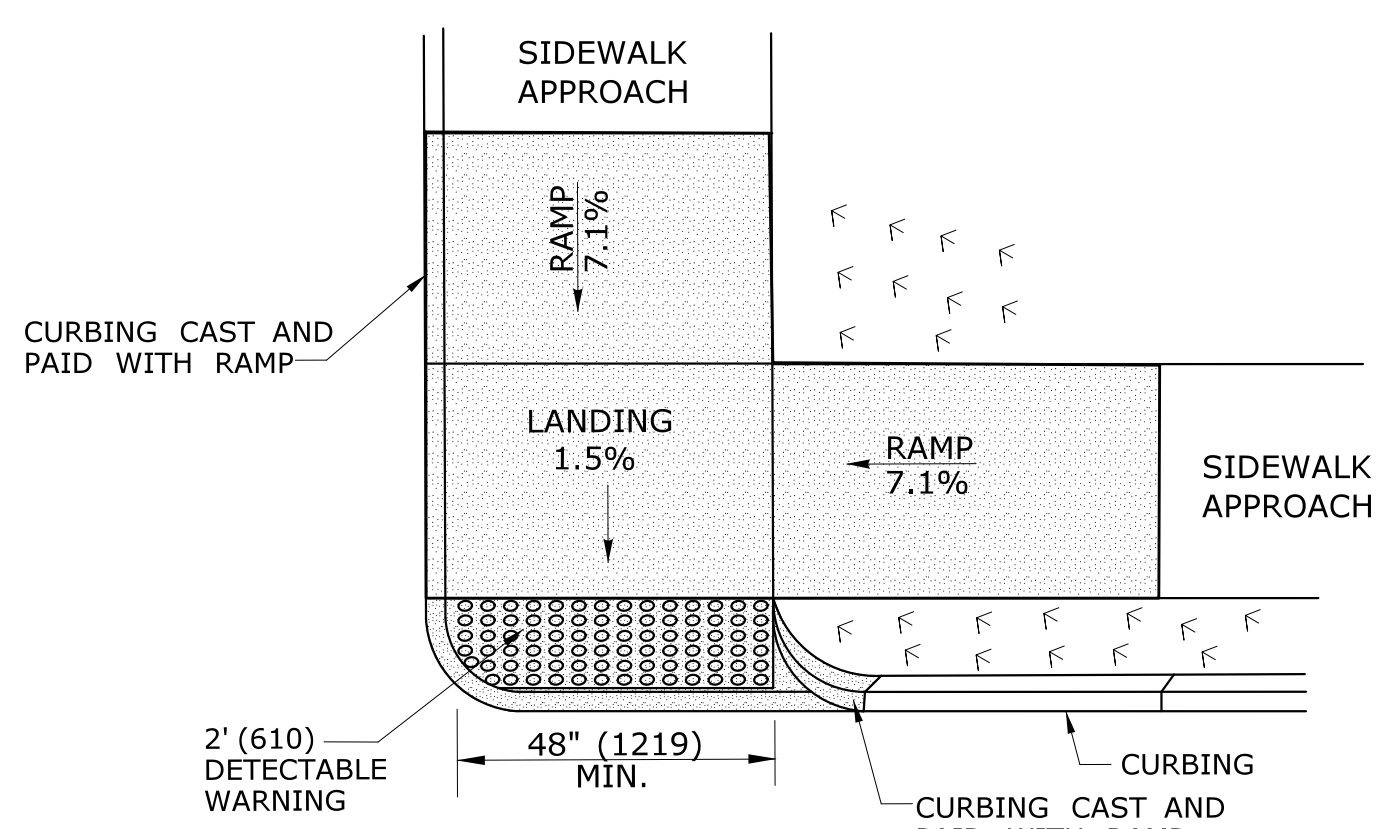
**SINGLE DIRECTION
PERPENDICULAR SIDEWALK RAMP
NO / UTILITY GRASS STRIP
(TYPE 4a)**



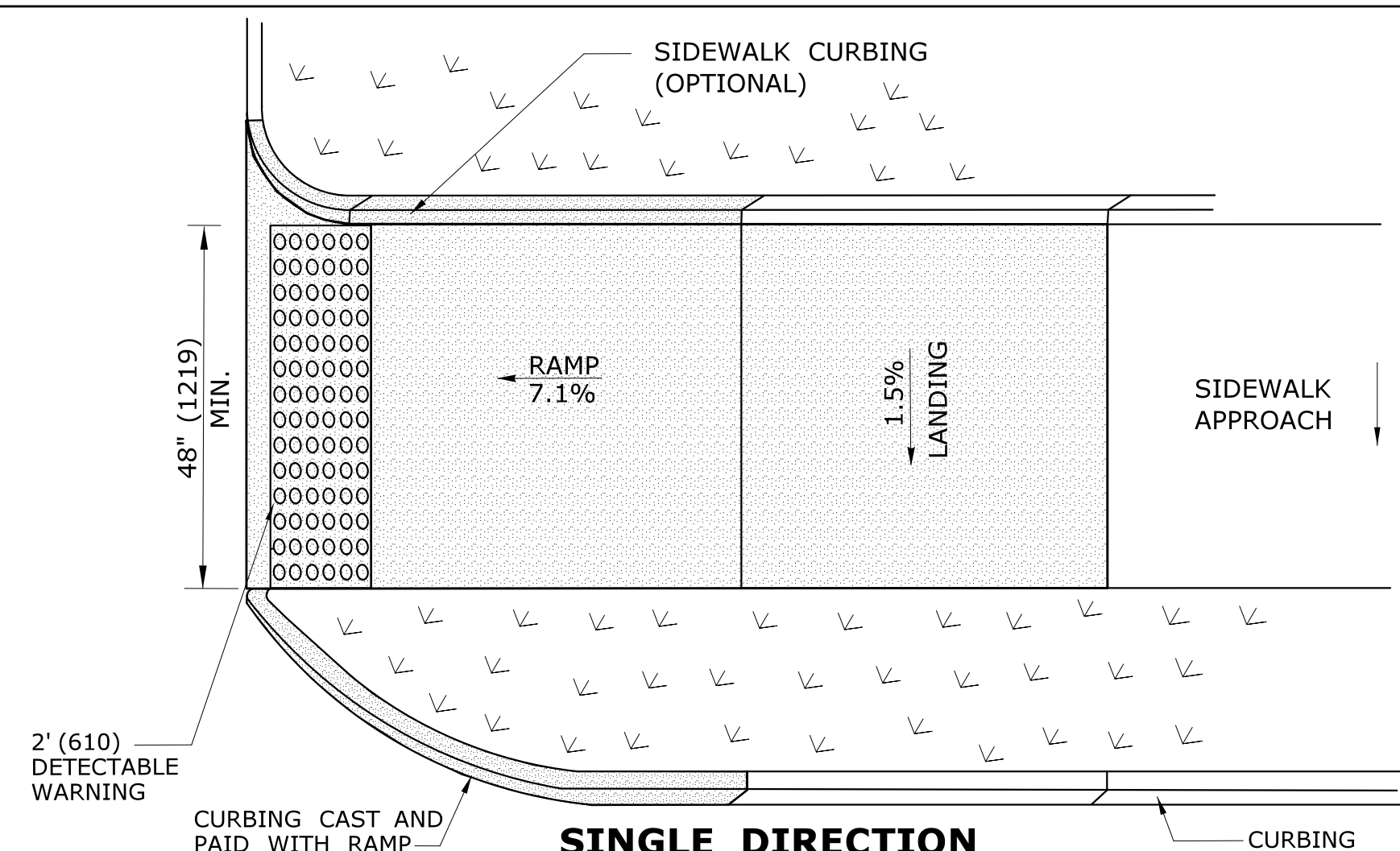
**PARALLEL/PERPENDICULAR SIDEWALK RAMP
COMBINATION W/ CURB RETURNS (TYPE 4d)**
* OPTIONAL FLARE ONE SIDE



**RESTRICTED CONDITION
DIAGONAL SIDEWALK RAMP
(TYPE 4g)**



**DOUBLE DIRECTION
PARALLEL SIDEWALK RAMP
NO / UTILITY GRASS STRIP
(TYPE 4b)**
SEE NOTE 20 SHEET 1



**SINGLE DIRECTION
PERPENDICULAR SIDEWALK RAMP
W/ UTILITY GRASS STRIP (TYPE 4e)**
REFER TO DETECTABLE WARNING PLACEMENT ON SHEET 4

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

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 6/26/2019

DESIGNER/DRAFTER: MGB/EMK
CHECKED BY: LLF

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

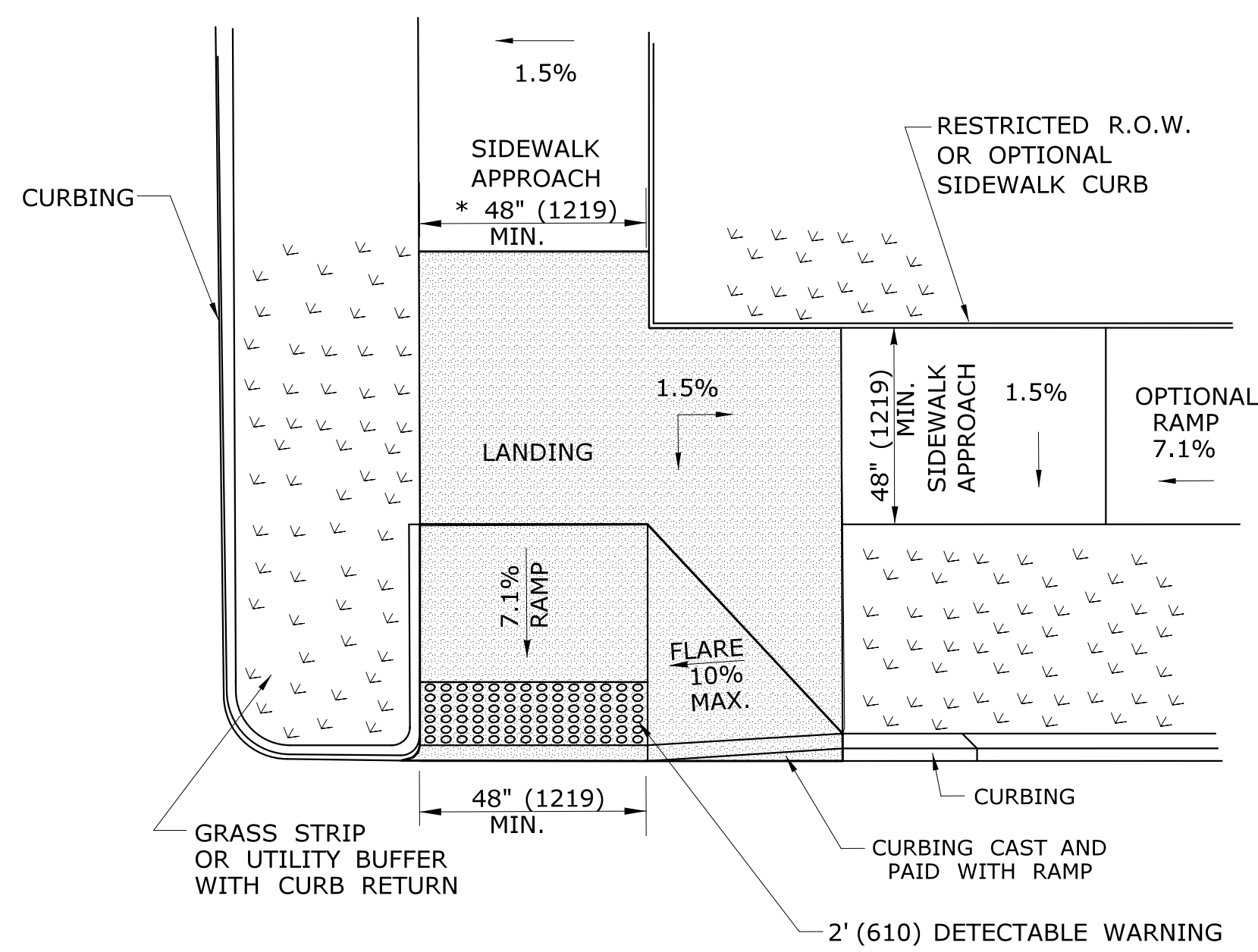
Filename: ...CTDOT.Highway.GD.dgn

SIGNATURE/ BLOCK:

PROJECT TITLE: ROADWAY RECONSTRUCTION PEPPER STREET

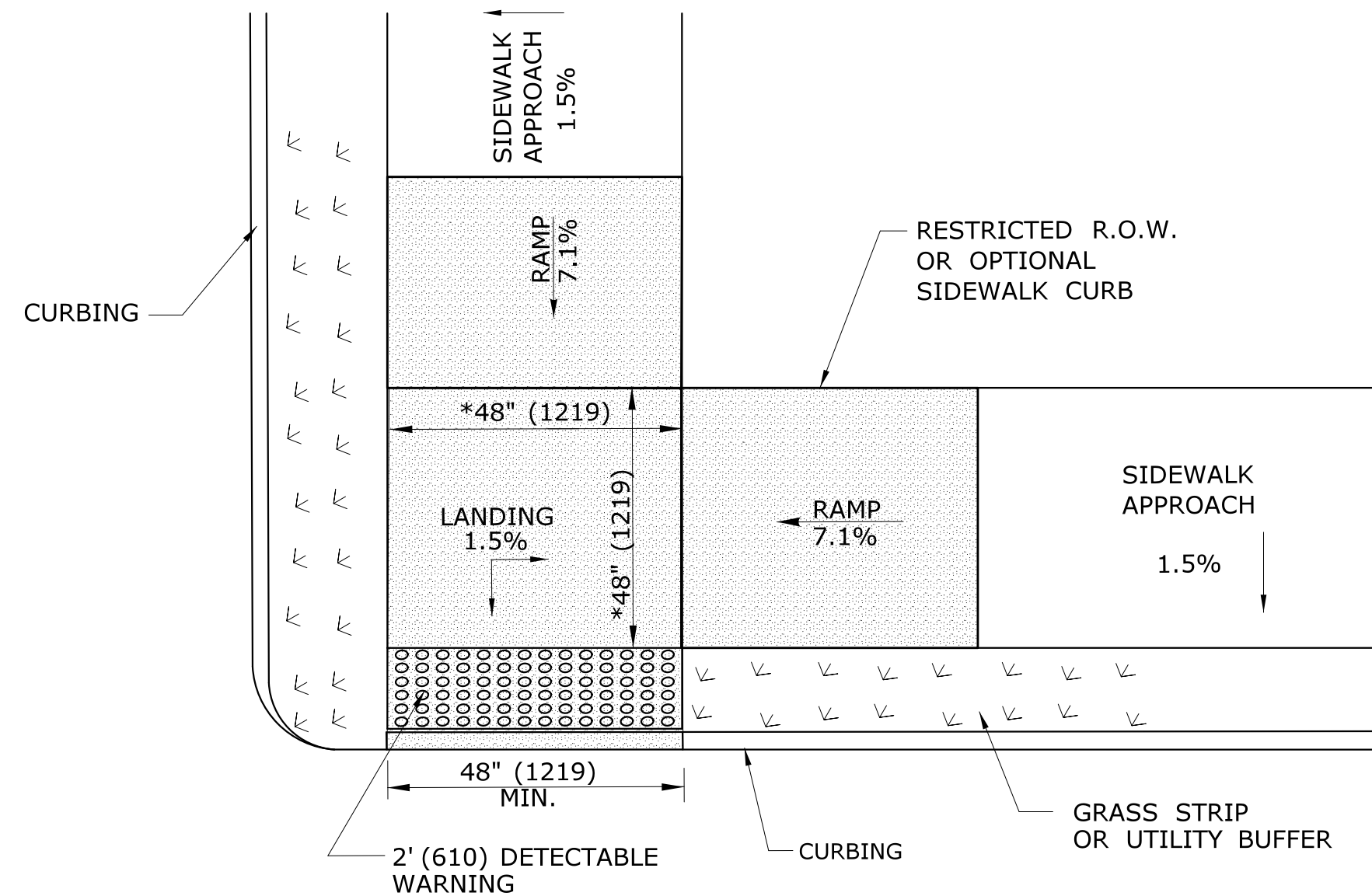
TOWN: MONROE
DRAWING TITLE: SIDEWALK RAMP SHEET 2

PROJECT NO. 84-109
DRAWING NO. GS-2
SHEET NO.



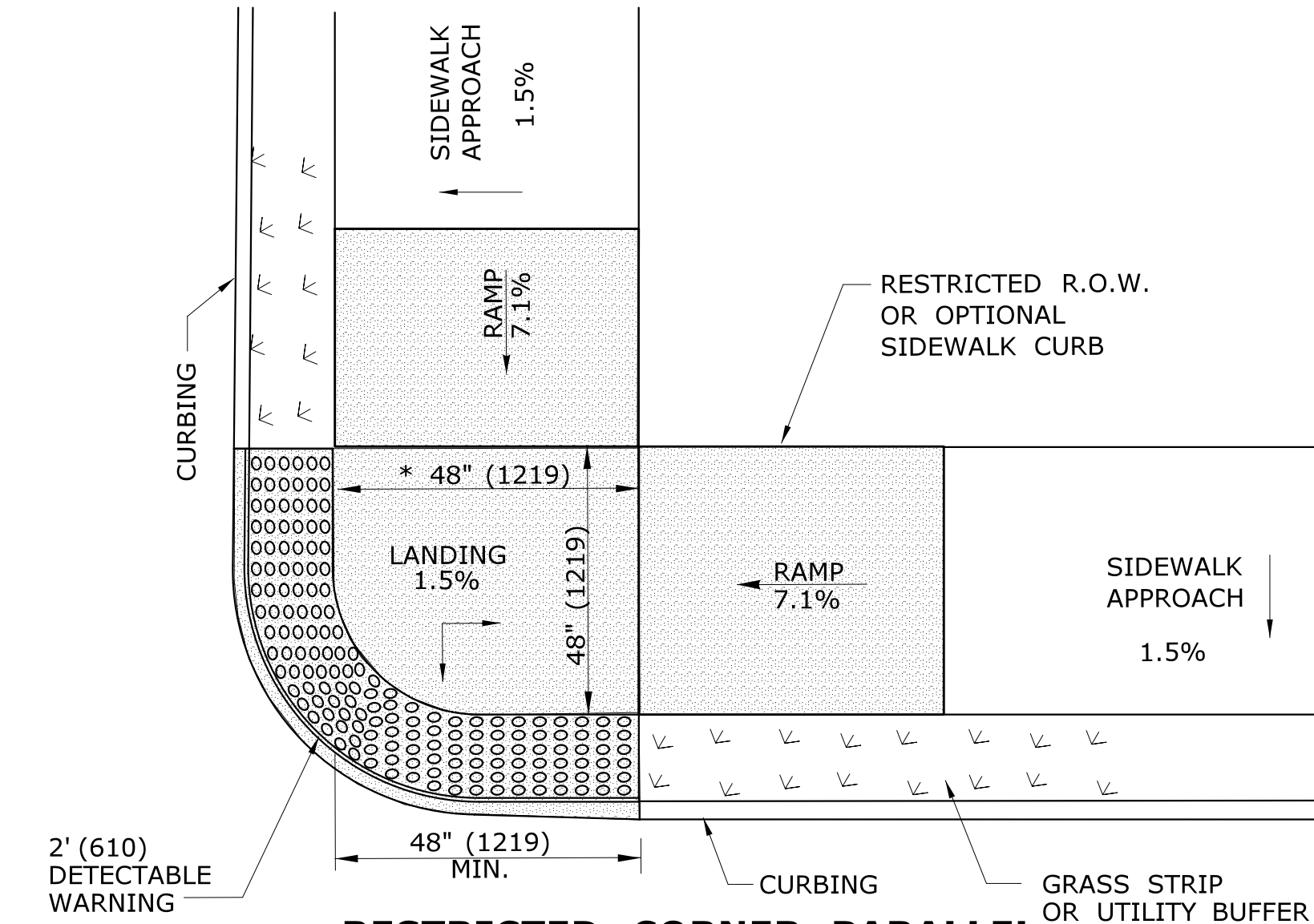
RESTRICTED CORNER PERPENDICULAR SIDEWALK RAMP (TYPE 5)

* SEE NOTE 19 SHEET 1



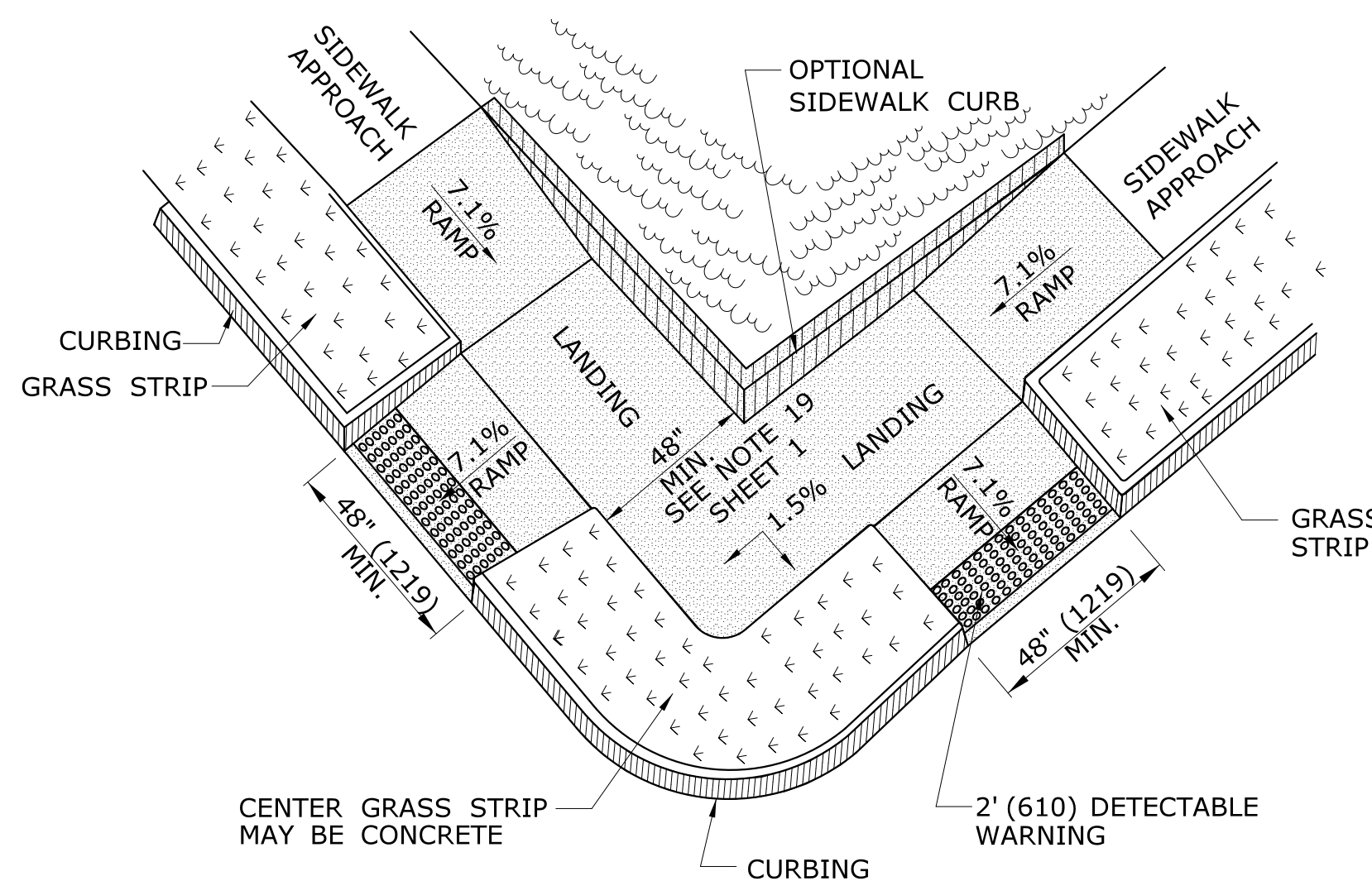
RESTRICTED CORNER PARALLEL DOUBLE SIDEWALK RAMP W/CENTER LANDING AND UTILITY GRASS STRIP (TYPE 5a)

* SEE NOTE 20 SHEET 1



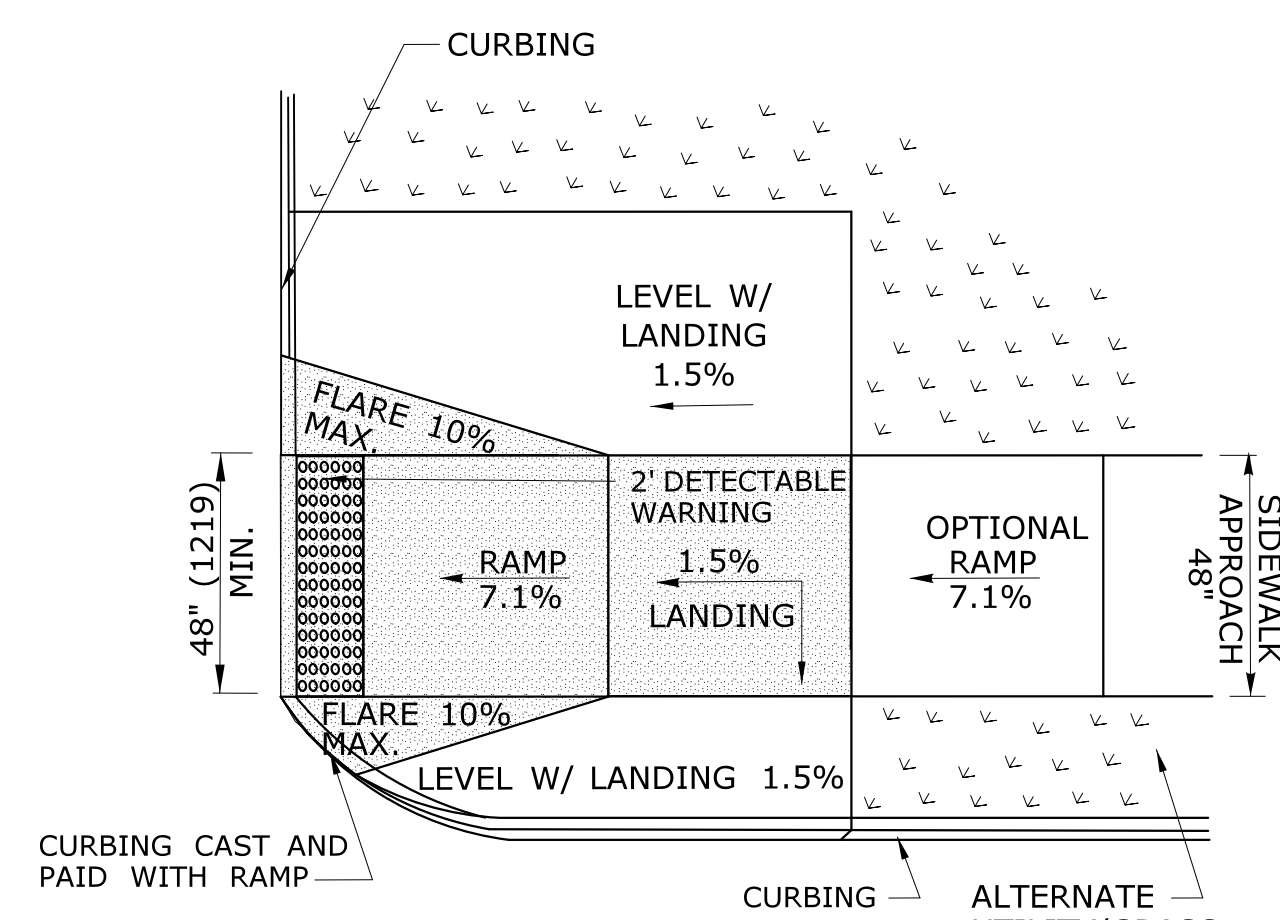
RESTRICTED CORNER PARALLEL SIDEWALK RAMP W/ CENTER LANDING TWO DIRECTION AND UTILITY GRASS STRIP (TYPE 5b)

* SEE NOTE 20 SHEET 1

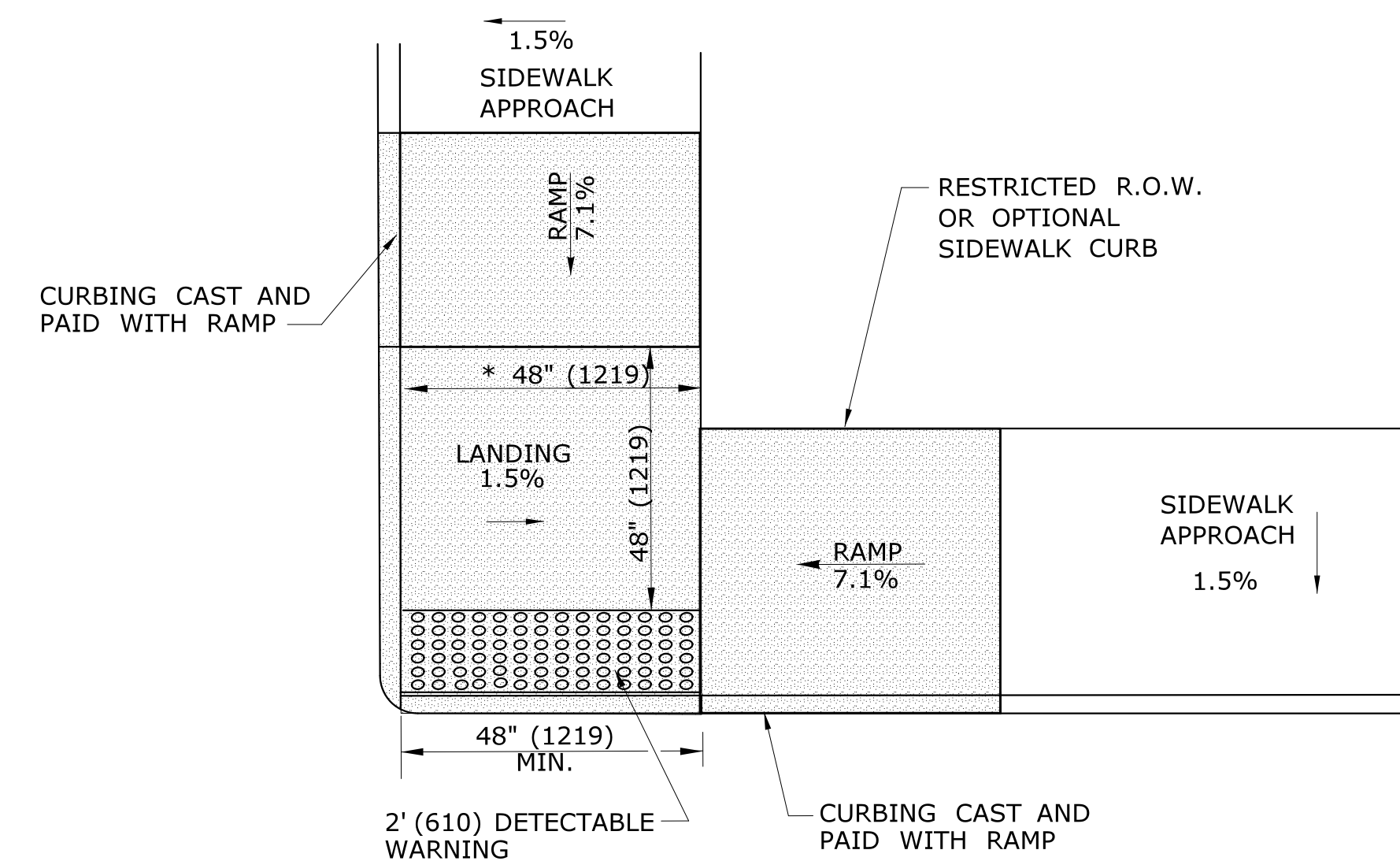


COMBINATION SIDEWALK RAMP (TYPE 6)

* SEE NOTE 19 SHEET 1

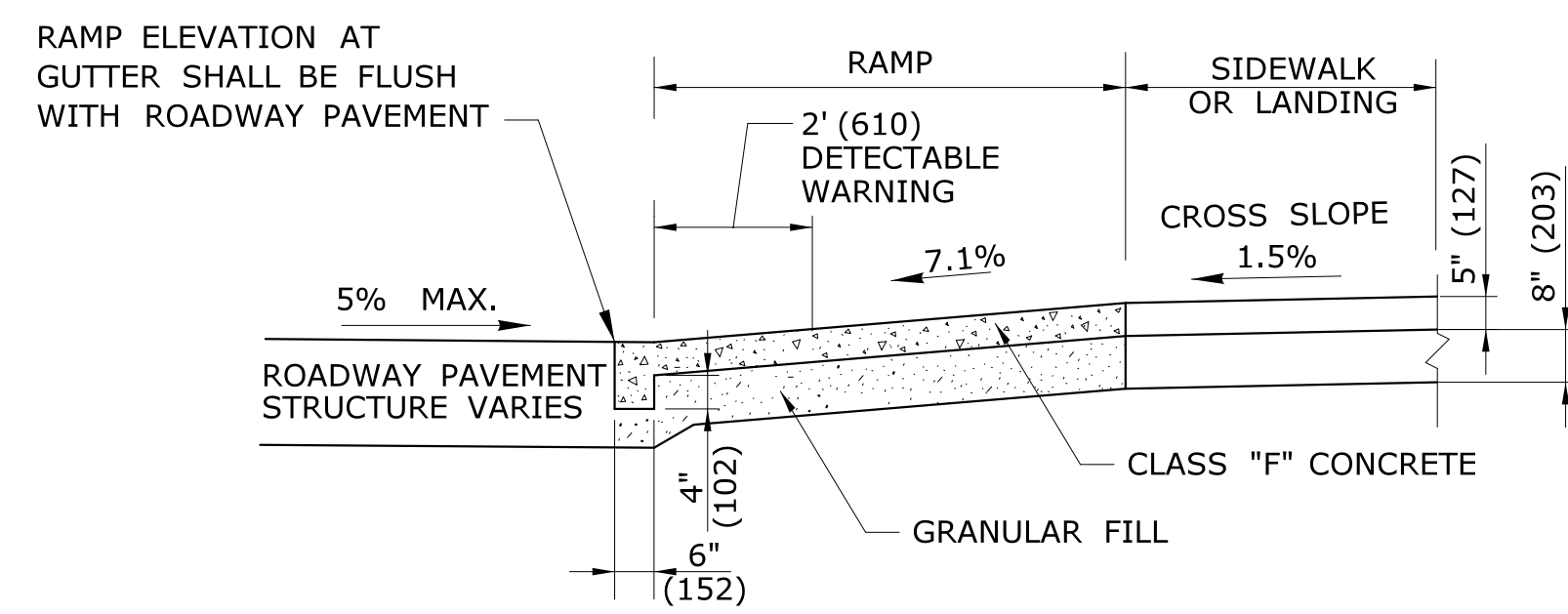


PERPENDICULAR SIDEWALK RAMP ONE DIRECTION ON CORNER (TYPE 6a)



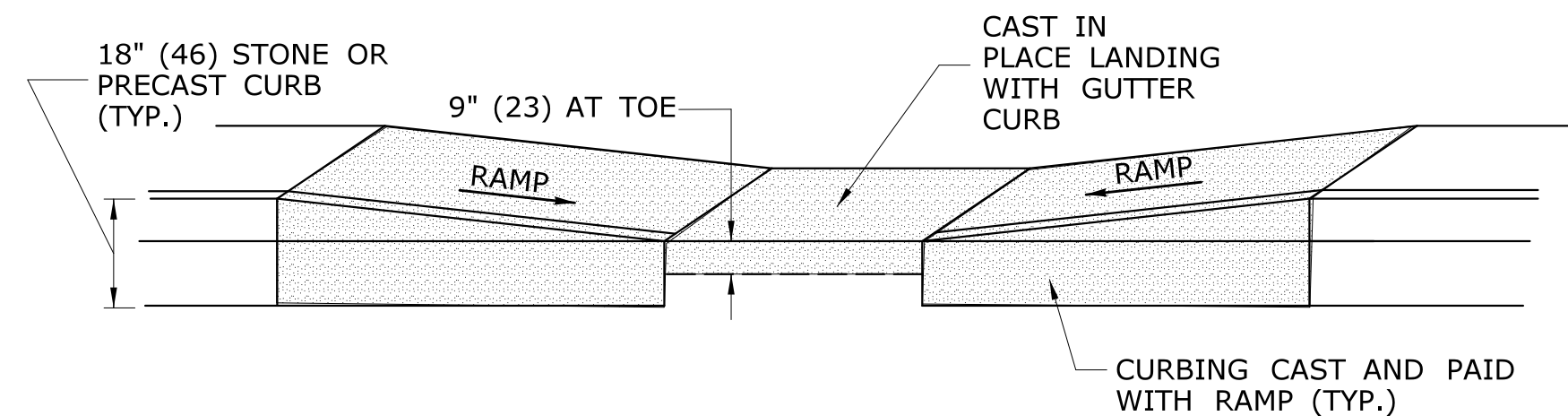
RESTRICTED CORNER PARALLEL SIDEWALK RAMP W/CENTER LANDING NO GRASS STRIP (TYPE 5c)

* SEE NOTE 20 SHEET 1

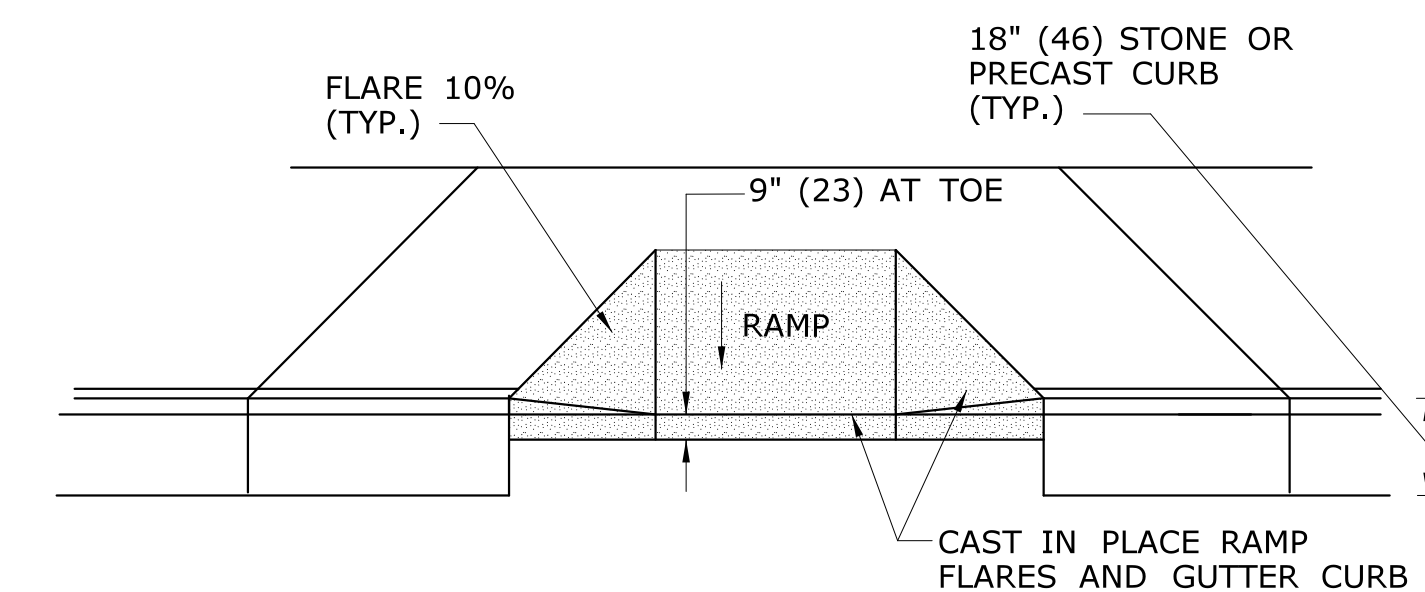


TYPICAL SECTION THRU SIDEWALK RAMP

SEE NOTE 2 AND 17 SHEET 1



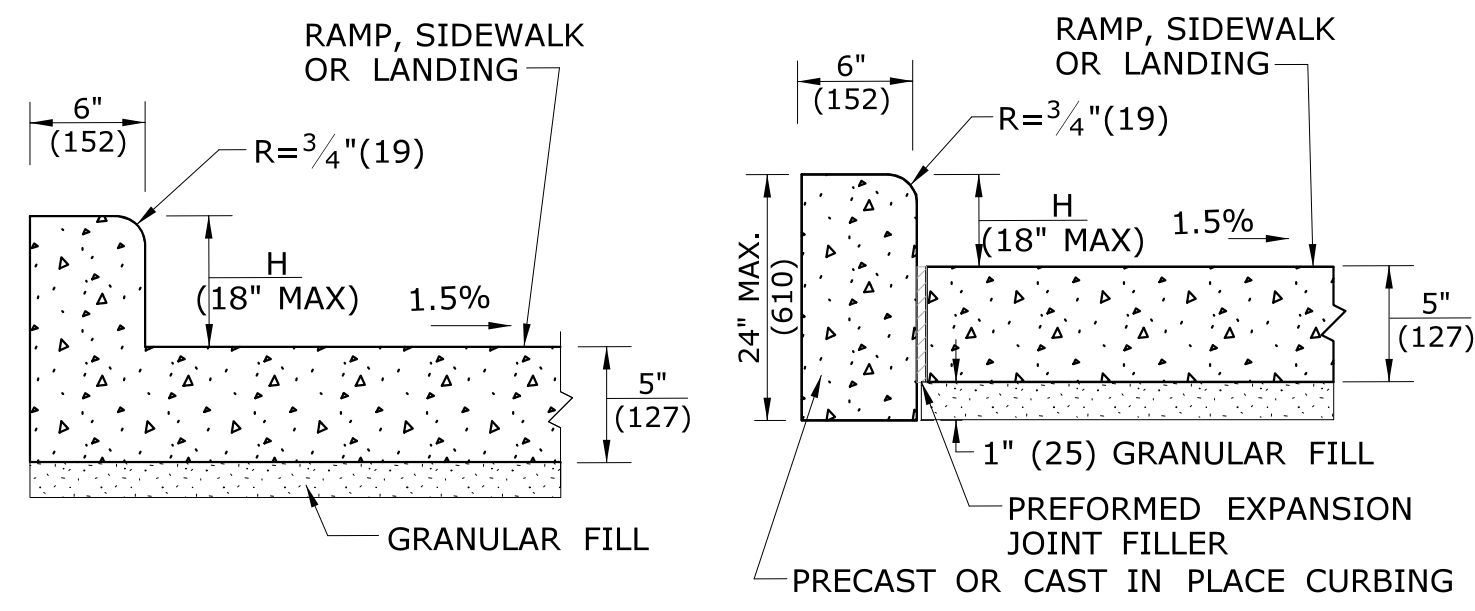
TYPICAL ELEVATION PARALLEL SIDEWALK RAMP WITH CAST IN PLACE GUTTER



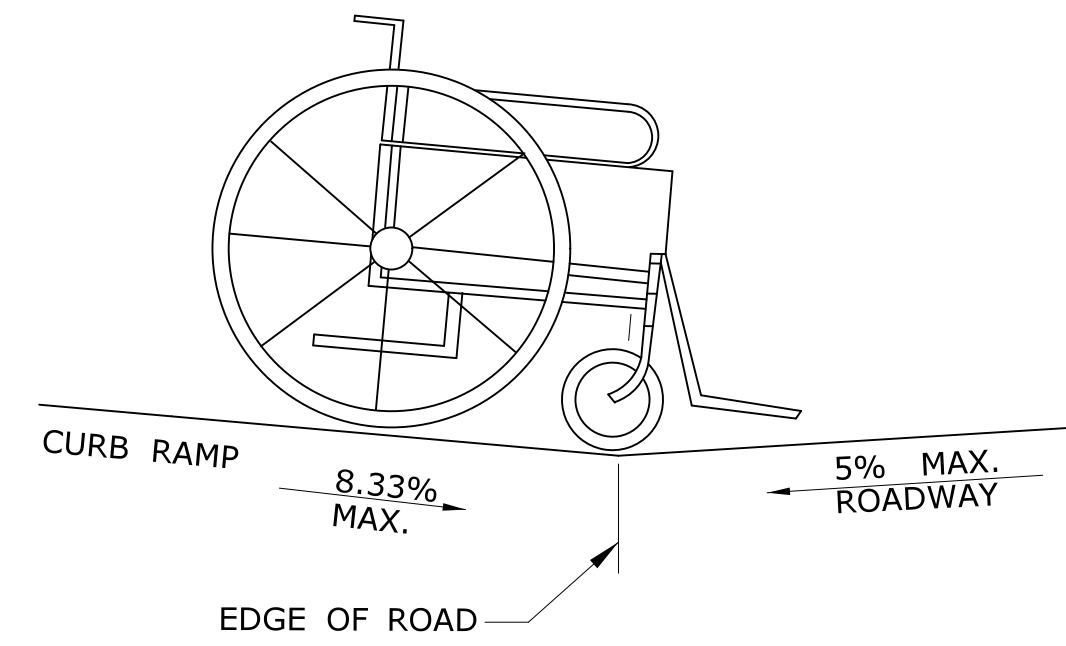
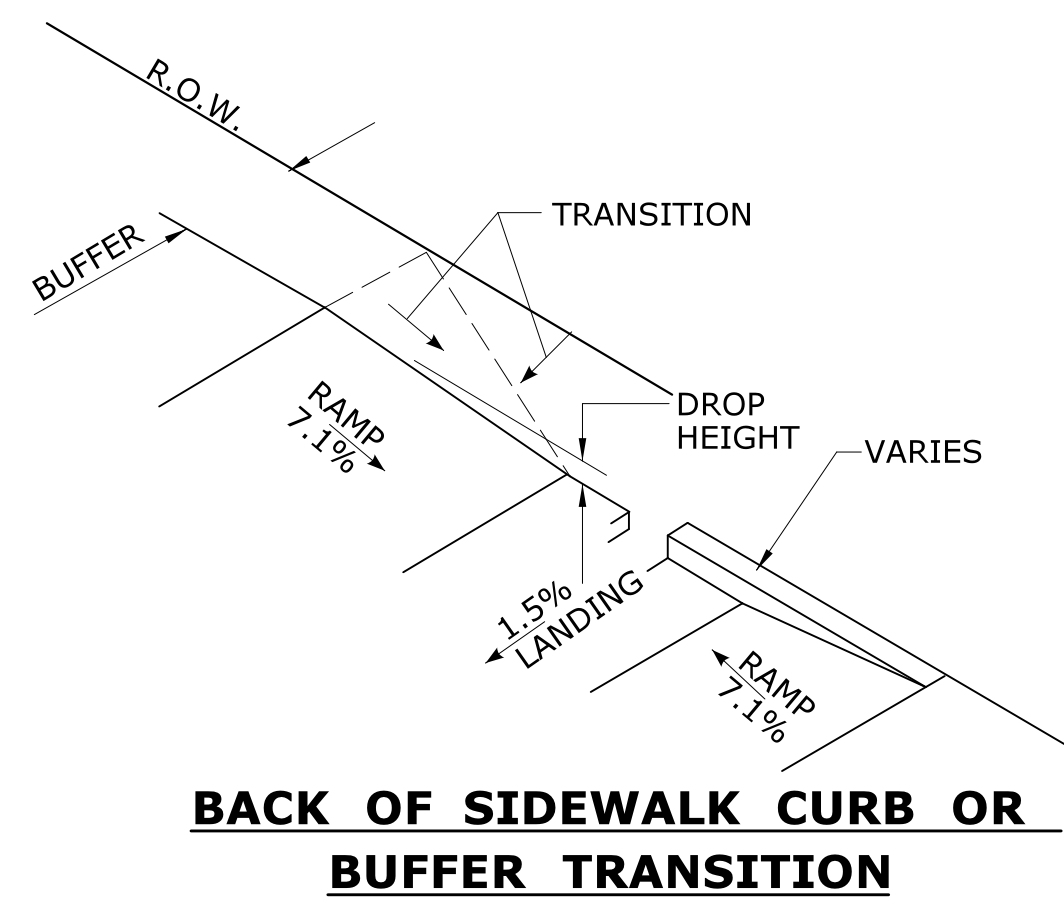
TYPICAL ELEVATION PERPENDICULAR SIDEWALK RAMP WITH CAST IN PLACE GUTTER

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

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: MGB/EMK CHECKED BY: LLF	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK:	PROJECT TITLE: ROADWAY RECONSTRUCTION PEPPER STREET	TOWN: MONROE	PROJECT NO. 84-109 DRAWING NO. GS-3 SHEET NO.
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 6/26/2019	Filename: ...CTDOT_Highway_GD.dgn		



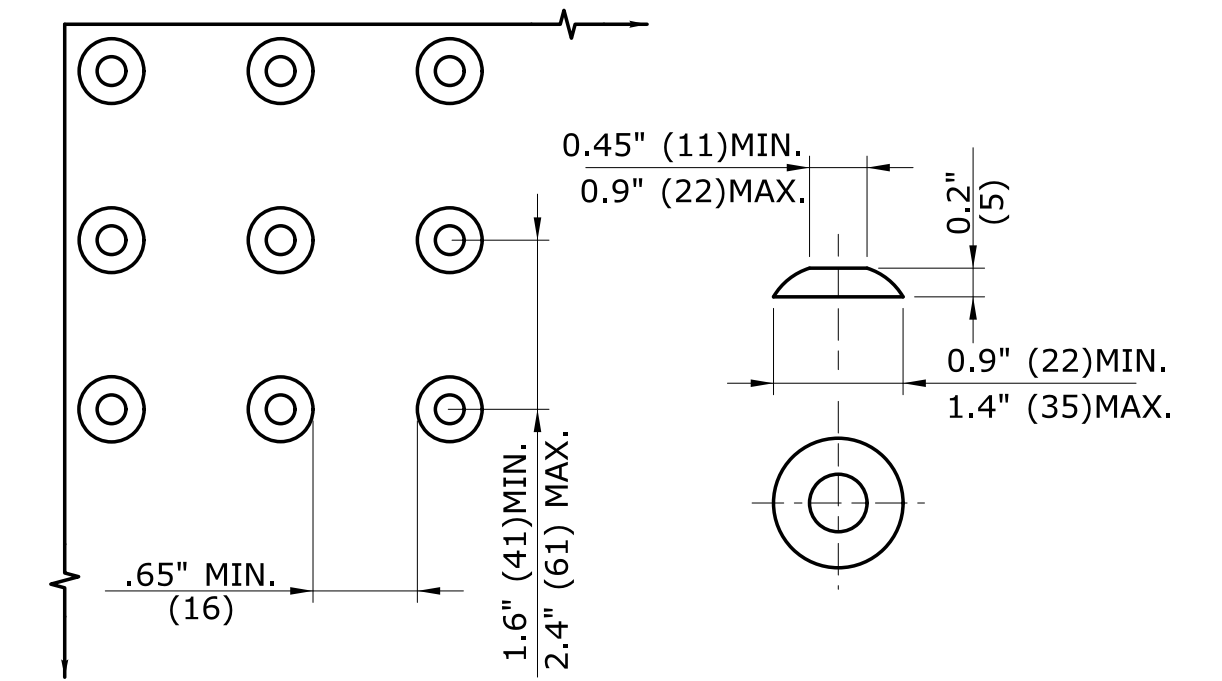
MONOLITHIC CAST CURB **SEPARATELY CAST CURB**
SIDEWALK CURB OPTIONS AT BACK OF SIDEWALK



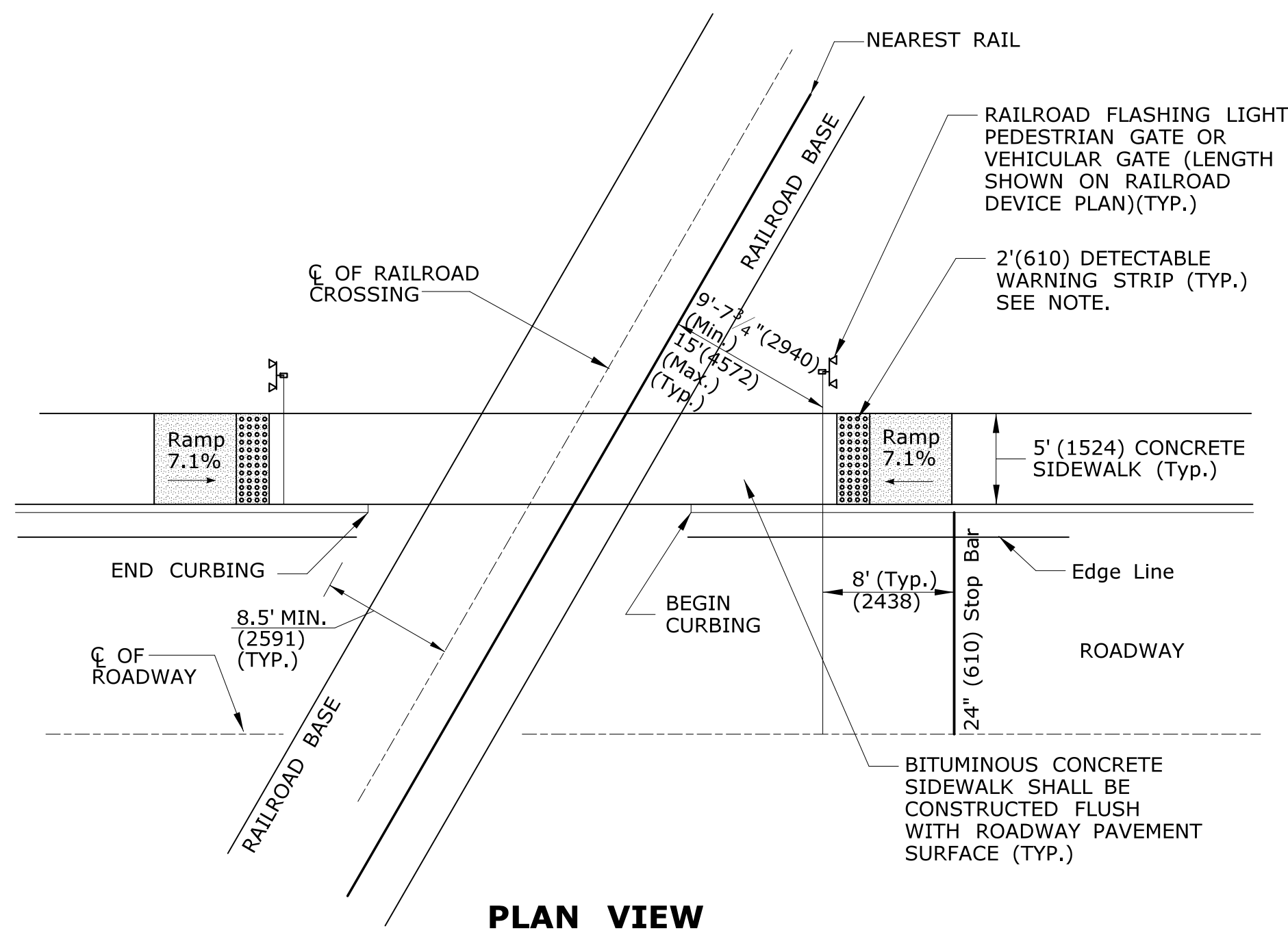
DETAIL 1
SEE GRADE CHANGE AT ROADWAY INTERFACE
 SEE NOTE 1 SHEET HW-921 02a

GENERAL NOTES:

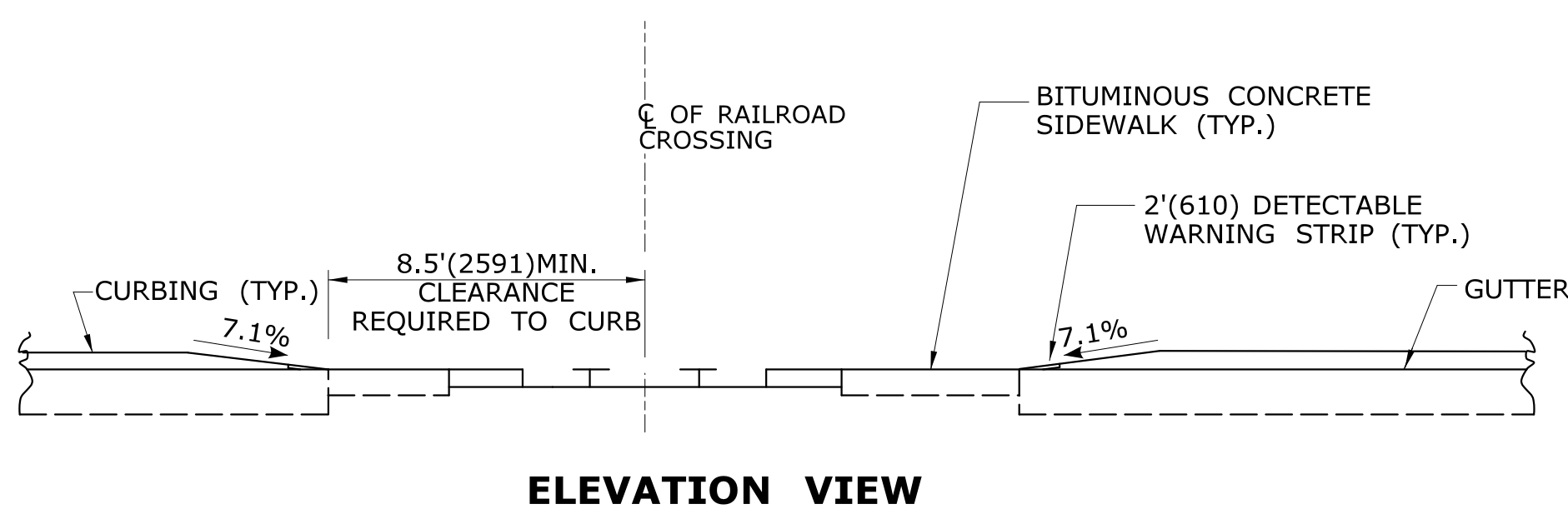
- RAMPED MEDIANS SHALL HAVE A CURB RAMP AT EITHER END AND LEVEL LANDING A MINIMUM OF 5' x 5' (1.5m x 1.5m) IN BETWEEN. CUT-THROUGH MEDIANS SHALL BE A MINIMUM OF 6' (1.8m) LONG AND 5' (1.5m) WIDE. FOR ALL MEDIANS, CUT-THROUGH OR RAMPED, A 2' (610) STRIP OF DETECTABLE WARNINGS SHALL BE INSTALLED AT THE ENTRANCE AND EXIT.
- SEE GENERAL NOTES ON SHEET 1.



DOMES SPACING **DOMES SECTION**
STANDARD DOME ON DETECTABLE WARNING TILES



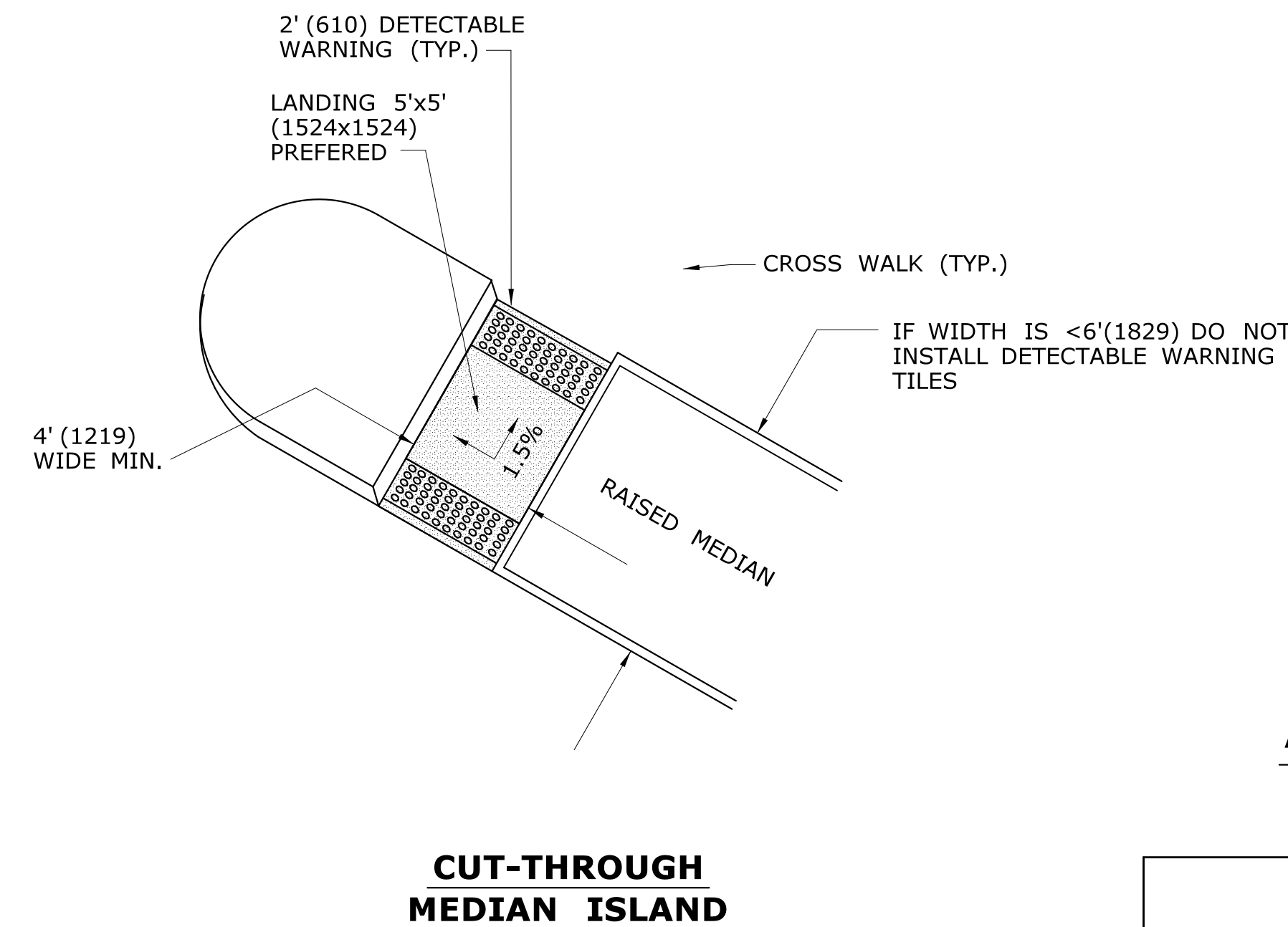
PLAN VIEW



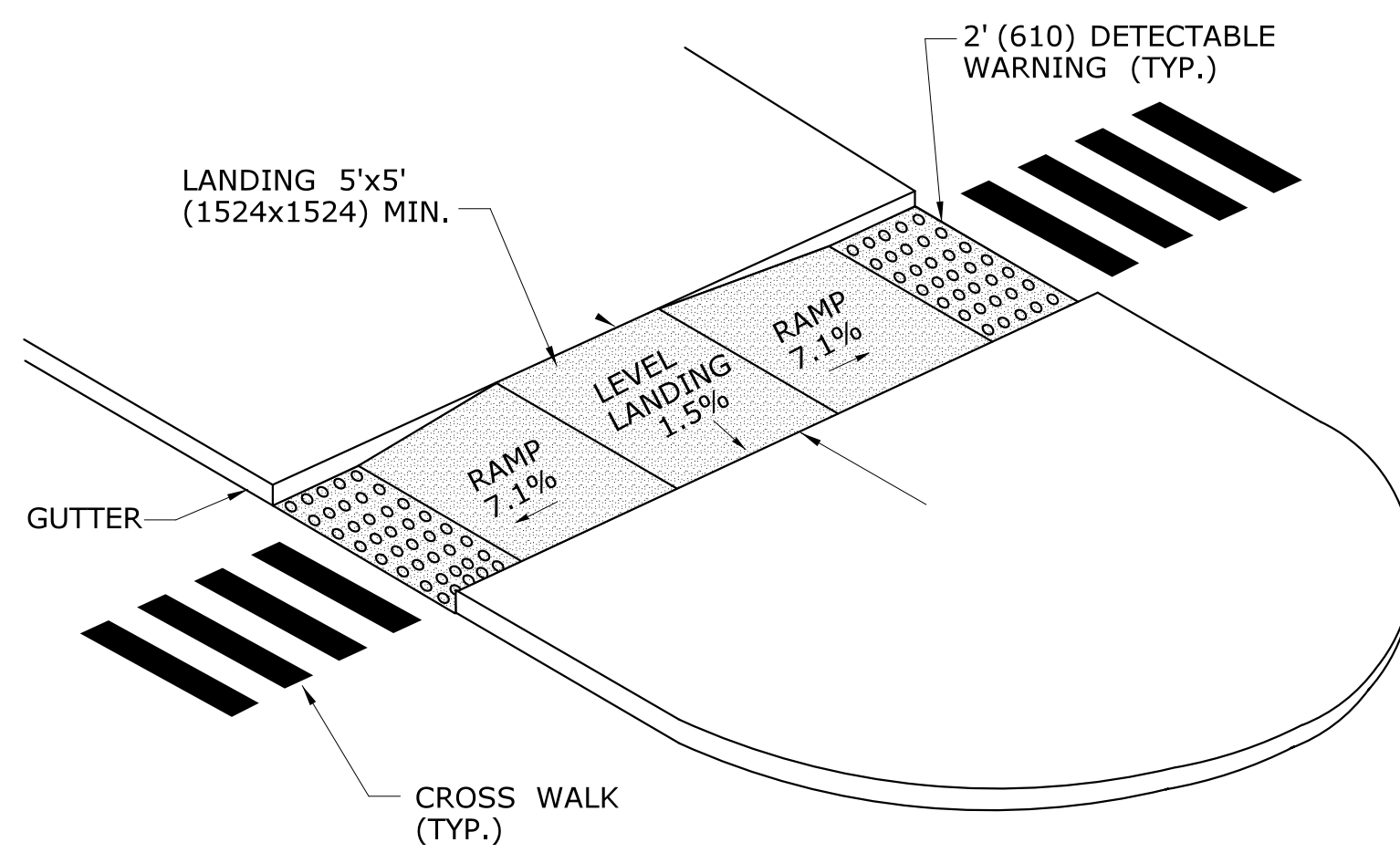
ELEVATION VIEW

DETECTABLE WARNINGS AT RAILROAD CROSSING

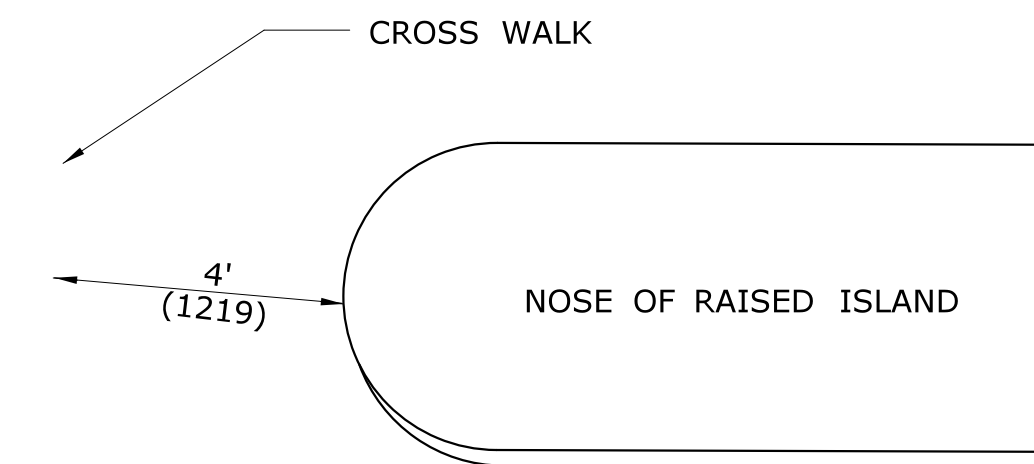
NOTE: WHEN NO GATE IS PRESENT, INSTALL DETECTABLE WARNING SURFACE 12' (3.6m) FROM THE NEAREST RAIL. IF GATE IS PRESENT, INSTALL DETECTABLE WARNING 2' (610) PRIOR TO GATE. THE ROWS OF TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL BE INSTALLED PARALLEL WITH THE DIRECTION OF PEDESTRIAN TRAVEL.



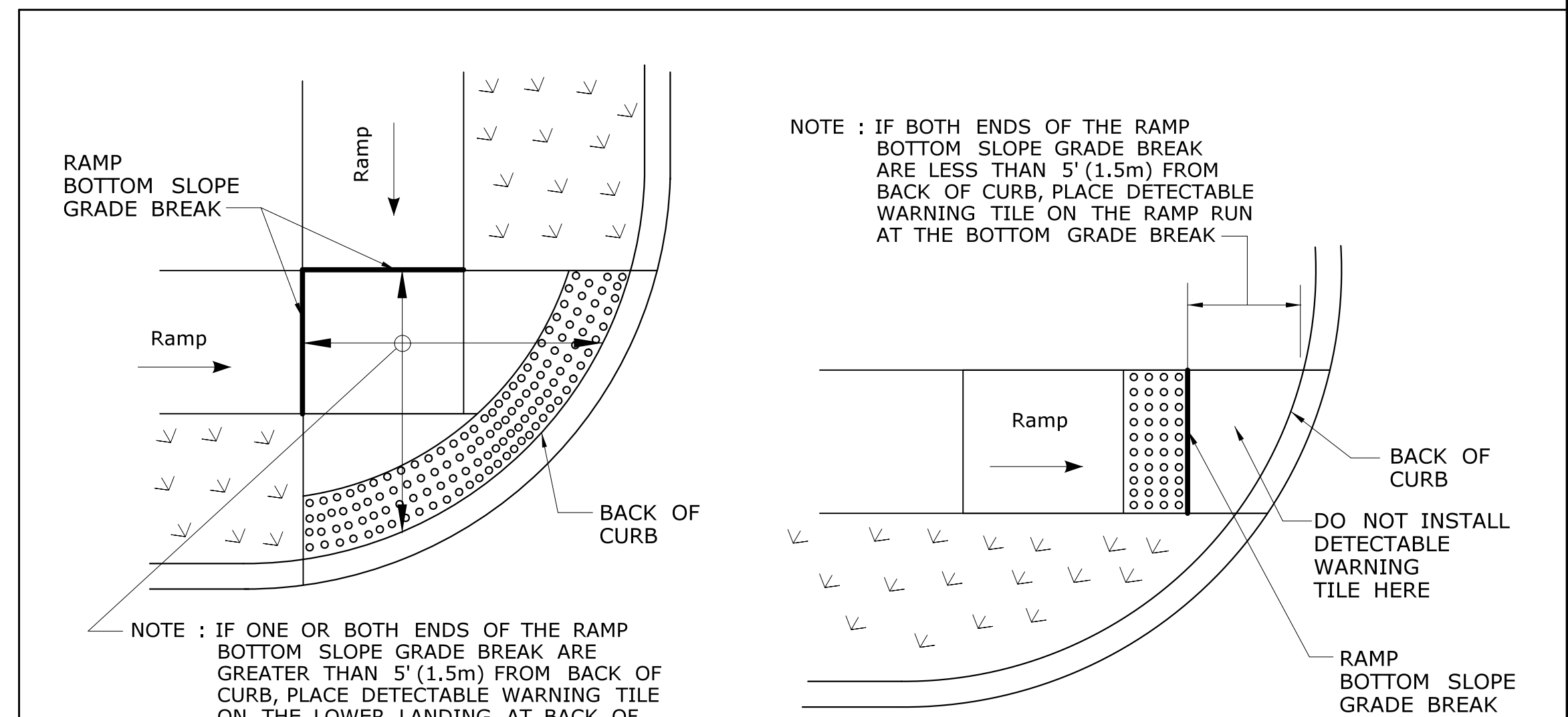
CUT-THROUGH MEDIAN ISLAND



RAISED MEDIAN ISLAND WITH LANDING AND RAMPS



ALTERNATE CROSSWALK WITH MEDIAN ISLAND PULLED BACK



DETECTABLE WARNING PLACEMENT DETAIL 1

DETECTABLE WARNING PLACEMENT DETAIL 2

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

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

Plotted Date: 6/26/2019

DESIGNER/DRAFTER:
 CHECKED BY:

STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION

SIGNATURE/
 BLOCK:

PROJECT TITLE:
**ROADWAY RECONSTRUCTION
 PEPPER STREET**

TOWN:
MONROE

DRAWING TITLE:
**SIDEWALK RAMP
 SHEET 4**

PROJECT NO.:
84-109

DRAWING NO.:
GS-4

SHEET NO.:

R1 - SERIES	R2 - SERIES	R3 - SERIES	R4 - SERIES	R5 - SERIES																																																																																																																																																																												
<p>R1-1 *</p> <p>LEGEND - WHITE BACKGROUND - RED</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr><td>1.86</td><td>18</td><td>31-0532</td><td>1</td><td>.080</td></tr> <tr><td>3.31</td><td>24</td><td>31-0536</td><td>1</td><td>.080</td></tr> <tr><td>5.19</td><td>30</td><td>31-0552</td><td>1</td><td>.080</td></tr> <tr><td>7.98</td><td>36</td><td>31-0553</td><td>1</td><td>.080</td></tr> <tr><td>13.3</td><td>48</td><td>31-0557</td><td>2</td><td>.100</td></tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	1.86	18	31-0532	1	.080	3.31	24	31-0536	1	.080	5.19	30	31-0552	1	.080	7.98	36	31-0553	1	.080	13.3	48	31-0557	2	.100	<p>R2-1</p> <p>LEGEND - WHITE BACKGROUND - RED</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr><td>5.00</td><td>24X30</td><td>31-5505</td><td>1</td><td>.080</td></tr> <tr><td>7.50</td><td>30X36</td><td>31-5504</td><td>1</td><td>.080</td></tr> <tr><td>12.00</td><td>36X48</td><td>31-5506</td><td>2</td><td>.100</td></tr> <tr><td>20.00</td><td>48X60</td><td>31-5507</td><td>2B</td><td>.100</td></tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	5.00	24X30	31-5505	1	.080	7.50	30X36	31-5504	1	.080	12.00	36X48	31-5506	2	.100	20.00	48X60	31-5507	2B	.100	<p>R3-1</p> <p>LEGEND - BLACK BACKGROUND - WHITE CIRCLE & DIAGONAL - RED</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr><td>4.00</td><td>24X24</td><td>31-1604</td><td>1</td><td>.080</td></tr> <tr><td>6.25</td><td>30X30</td><td>31-1617</td><td>1</td><td>.080</td></tr> <tr><td>5.00</td><td>30X24</td><td>31-1618</td><td>1</td><td>.080</td></tr> <tr><td>9.00</td><td>36X36</td><td>31-1627</td><td>2</td><td>.080</td></tr> <tr><td>7.50</td><td>36X30</td><td>31-1628</td><td>2</td><td>.080</td></tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	4.00	24X24	31-1604	1	.080	6.25	30X30	31-1617	1	.080	5.00	30X24	31-1618	1	.080	9.00	36X36	31-1627	2	.080	7.50	36X30	31-1628	2	.080	<p>R3-5</p> <p>LEGEND - BLACK BACKGROUND - WHITE</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr><td>4.00</td><td>24X24</td><td>31-0135L</td><td>1</td><td>.080</td></tr> <tr><td>4.00</td><td>24X24</td><td>31-0135R</td><td>1</td><td>.080</td></tr> <tr><td>4.00</td><td>24X24</td><td>31-0125</td><td>1</td><td>.080</td></tr> <tr><td>6.25</td><td>30X30</td><td>31-0165</td><td>1</td><td>.080</td></tr> <tr><td>7.50</td><td>30X36</td><td>31-0175</td><td>1</td><td>.080</td></tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	4.00	24X24	31-0135L	1	.080	4.00	24X24	31-0135R	1	.080	4.00	24X24	31-0125	1	.080	6.25	30X30	31-0165	1	.080	7.50	30X36	31-0175	1	.080	<p>R3-8b</p> <p>LEGEND - BLACK BACKGROUND - WHITE</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr><td>10.00</td><td>48X30</td><td>31-0302</td><td>2</td><td>.100</td></tr> <tr><td>20.00</td><td>48X60</td><td>31-0121L</td><td>2B</td><td>.100</td></tr> <tr><td>20.00</td><td>48X60</td><td>31-0122R</td><td>2B</td><td>.100</td></tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	10.00	48X30	31-0302	2	.100	20.00	48X60	31-0121L	2B	.100	20.00	48X60	31-0122R	2B	.100	<p>R4-1</p> <p>LEGEND - WHITE BACKGROUND - RED</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr><td>5.00</td><td>24X30</td><td>31-1502</td><td>1</td><td>.080</td></tr> <tr><td>20.00</td><td>48X60</td><td>31-1574</td><td>2B</td><td>.100</td></tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	5.00	24X30	31-1502	1	.080	20.00	48X60	31-1574	2B	.100	<p>R5-1 *</p> <p>LEGEND - WHITE BACKGROUND - RED CIRCLE - RED</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT.)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr><td>6.25</td><td>30X30</td><td>31-1119</td><td>1</td><td>.080</td></tr> <tr><td>9.00</td><td>36X36</td><td>31-1120</td><td>2</td><td>.080</td></tr> <tr><td>16.00</td><td>48X48</td><td>31-1121</td><td>2</td><td>.100</td></tr> </tbody> </table>	AREA (SQ. FT.)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.25	30X30	31-1119	1	.080	9.00	36X36	31-1120	2	.080	16.00	48X48	31-1121	2	.100
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NOTES:

- FOR METRIC SEE CONVERSION CHART.
- THE LEGEND "O.S.T.A." SHALL APPEAR ON ALL R-SERIES SIGNS EXCEPT WHEN SUFFIXED WITH THE LETTER "Z".
- FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING. FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERCTED ON THE SAME POSTS, OR SPAN/MAST ARM MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.
- POSTS - SEE STANDARD SHEET TR-1208-02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."
- POSTS - TYPE A (EXCEPT WHERE NOTED WITH A "B" FOR TYPE B)
- SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM. SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.
- FOR OVERHEAD MOUNTED SIGNS, SEE STANDARD SHEET TR-1114.01 - "BONDING AND UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAIL."

COLORS:

BACKGROUND - WHITE (SILVER) - EXCEPT AS NOTED.
 LEGEND - BLACK - EXCEPT AS NOTED.
 ALL SIGNS TO USE TYPE IV RETROREFLECTIVE SHEETING EXCEPT AS NOTED BY *.
 * SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.

<p>5 6-2015 REVISED DRAWING NO.</p> <p>4 5-2015 UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.</p> <p>3 6-2012 REVISED NOTE #1 TO REFERENCE "O.S.T.A."</p> <p>2 6-2010 INCLUDED SIGNS TO MEET 2009 MUTCD REQUIREMENTS.</p> <p>1 1-2010 REVISED SHEETING FROM TYPE I TO III.</p> <p>REV. DATE REVISION DESCRIPTION</p>	<p>METRIC CONVERSION CHART (1" = 25mm)</p> <table border="1"> <thead> <tr> <th>ENGLISH</th> <th>METRIC</th> <th>ENGLISH</th> <th>METRIC</th> <th>ENGLISH</th> <th>METRIC</th> </tr> </thead> <tbody> <tr><td>12"</td><td>300</td><td>42"</td><td>1050</td><td>72"</td><td>1800</td></tr> <tr><td>18"</td><td>450</td><td>48"</td><td>1200</td><td>78"</td><td>1950</td></tr> <tr><td>24"</td><td>600</td><td>54"</td><td>1350</td><td>84"</td><td>2100</td></tr> <tr><td>30"</td><td>750</td><td>60"</td><td>1500</td><td>90"</td><td>2250</td></tr> <tr><td>36"</td><td>900</td><td>66"</td><td>1650</td><td>96"</td><td>2400</td></tr> </tbody> </table>	ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC	12"	300	42"	1050	72"	1800	18"	450	48"	1200	78"	1950	24"	600	54"	1350	84"	2100	30"	750	60"	1500	90"	2250	36"	900	66"	1650	96"	2400	<p>DESIGNER/DRAFTER: D. K. SWINBURNE</p> <p>CHECKED BY: L.M. CONROY</p> <p>Plotted: 6/26/2019</p>	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p> <p>Filename: 84-109_CTDOT_TRAFFIC_GS.dgn</p>	<p>SIGNATURE/ BLOCK:</p>	<p>PROJECT TITLE: RECONSTRUCTION OF PEPPER STREET</p>	<p>TOWN: MONROE</p>	<p>PROJECT NO. 84-109</p> <p>DRAWING NO. TR-GS_01</p> <p>SHEET NO.</p>
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THK.	6.25	30	41-4006	1	.080	9.00	36	41-4031	1	.080	16.00	48	41-4056	2	.100	<p>W1-1R</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>6.25</td> <td>30</td> <td>41-4005</td> <td>1</td> <td>.080</td> </tr> <tr> <td>9.00</td> <td>36</td> <td>41-4160</td> <td>1</td> <td>.080</td> </tr> <tr> <td>16.00</td> <td>48</td> <td>41-4055</td> <td>2</td> <td>.100</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.25	30	41-4005	1	.080	9.00	36	41-4160	1	.080	16.00	48	41-4055	2	.100	<p>W1-1</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. 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THK.	6.25	30	41-4226	1	.080	9.00	36	41-4236	1	.080	16.00	48	41-4246	2	.100	<p>W3-1</p> <p>OCTAGON - RED</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>6.25</td> <td>30</td> <td>41-0501</td> <td>1</td> <td>.080</td> </tr> <tr> <td>9.00</td> <td>36</td> <td>41-0502</td> <td>1</td> <td>.080</td> </tr> <tr> <td>16.00</td> <td>48</td> <td>41-0503</td> <td>2</td> <td>.100</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.25	30	41-0501	1	.080	9.00	36	41-0502	1	.080	16.00	48	41-0503	2	.100	<p>W4-1</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. 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THK.	9.00	36	41-4402	1	.080	16.00	48	41-4404	2	.100	<p>W6-1</p> <p>W6-2</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>9.00</td> <td>36</td> <td>41-4335</td> <td>1</td> <td>.080</td> </tr> <tr> <td>16.00</td> <td>48</td> <td>41-4330</td> <td>2</td> <td>.100</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	9.00	36	41-4335	1	.080	16.00	48	41-4330	2	.100	<p>W7-1</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>6.25</td> <td>30</td> <td>41-4506</td> <td>1</td> <td>.080</td> </tr> <tr> <td>9.00</td> <td>36</td> <td>41-4530</td> <td>1</td> <td>.080</td> </tr> <tr> <td>16.00</td> <td>48</td> <td>41-4508</td> <td>2</td> <td>.100</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.25	30	41-4506	1	.080	9.00	36	41-4530	1	.080	16.00	48	41-4508	2	.100	<p>W8-5</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. THK.</th> </tr> </thead> <tbody> <tr> <td>6.25</td> <td>30</td> <td>41-4519</td> <td>1</td> <td>.080</td> </tr> <tr> <td>9.00</td> <td>36</td> <td>41-4520</td> <td>1</td> <td>.080</td> </tr> <tr> <td>16.00</td> <td>48</td> <td>41-4521</td> <td>2</td> <td>.100</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	6.25	30	41-4519	1	.080	9.00	36	41-4520	1	.080	16.00	48	41-4521	2	.100	<p>W9-1</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> <th>ALUM. 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SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED. COLORS: D - SERIES D1, 2, 3, 4, 10 BACKGROUND-GREEN, LEGEND-WHITE D7, RS BACKGROUND-BROWN, LEGEND-WHITE D9 BACKGROUND-BLUE, LEGEND-WHITE ALL OTHER D-SERIES AS NOTED E - SERIES BACKGROUND-GREEN, LEGEND-WHITE I - SERIES BACKGROUND-GREEN, LEGEND-WHITE (EXCEPT AS NOTED) M2 - M6 SERIES (1) BACKGROUND-BLUE, LEGEND-WHITE (2) BACKGROUND-WHITE, LEGEND-BLACK (3) BACKGROUND-GREEN, LEGEND-WHITE ALL COLORS SHALL BE TYPE IV RETROREFLECTIVE WITH THE EXCEPTION OF BLACK WHICH SHALL BE OPAQUE.																														
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REV. DATE	REVISION DESCRIPTION
3	6-2015 REVISED DRAWING TITLE AND NO.
2	5-2015 UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
1	1-2010 REVISED SHEETING FROM TYPE I TO III.


ENGLISH	METRIC	ENGLISH	METRIC	ENGLISH	METRIC
12"					

*ONLY STANDARD SHEETS MARKED WITH AN "✓" ARE IN THIS PROJECT #

**REVISED OR ADDED

✓*	SHEET NO.	TITLE	APPROVAL DATE**
✓	HW-506_01	ENDWALLS, SLOPE PAVED INLETS AND OUTLETS	1-26-12
	HW-506_02	TYPE "D-G" & "L" ENDWALLS	7-13-12
	HW-506_03	ENDWALLS FOR PIPE ARCH	9-18-09
	HW-507_01	TYPE "C", "C-L" & DROP INLET CATCH BASIN	7-24-13
	HW-507_02	TYPE "C", "C-L" & DOUBLE GRATE TYPE - I	7-24-13
✓	HW-507_03	TYPE "C", "C-L" & DOUBLE GRATE TYPE - II	7-24-13
	HW-507_04	TYPE "C", "C-L" & ROUND PRECAST CONCRETE CB	11-10-11
	HW-507_05	TYPE "C" & "C-L" PRECAST CONCRETE CB DOUBLE GRATE TYPE - I	11-10-11
	HW-507_06	TYPE "C" & "C-L" PRECAST CONCRETE CB DOUBLE GRATE TYPE - II	11-10-11
✓	HW-507_07	TYPE "C" & "C-L" CATCH BASIN TOPS AND CURBS	11-10-11
✓	HW-507_08	CATCH BASIN FRAMES AND GRATES	9-18-09
	HW-507_09	HEAVY DUTY LOCK DOWN TOPS	7-12-12
✓	HW-507_10	MANHOLE - FRAME & COVER	7-24-13
✓	HW-651_01	C.C.M. PIPE INSTALLATIONS IN FILL & ROCK SLOPES & PIPE TRENCH DETAIL	7-24-13
✓	HW-651_02	SLOTTED DRAIN PIPE 12"- 15"-18"-24"-30" (305-381-457-610-762)	7-12-12
✓	HW-652_01	PIPE ENDS	7-24-13
✓	HW-751_01	UNDERDRAINS AND UNDERDRAIN OUTLETS	7-12-12
	HW-803_01a	PAVED APRONS	6-07-17
	HW-803_01b	PAVED DITCHES AND PAVED CHANNELS	6-07-17
✓	HW-811_01	CONCRETE CURBING	6-07-17
	HW-813_01	GRANITE STONE TRANSITION CURBING	7-24-13
	HW-813_02	STONE CURBING	6-07-17
	HW-815_01	BITUMINOUS CONCRETE CURBING	6-07-17
	HW-821_01a	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1	1-26-12
	HW-821_01b	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2	10-18-10
	HW-821_01c	TRANSITION - 45" (1145) F-SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3	1-26-12
	HW-821_02a	45" (1145) F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 1	7-24-13
	HW-821_02b	45" (1145) F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 2	7-24-13
	HW-821_03a	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 1	1-26-12
	HW-821_03b	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 2	10-18-10
	HW-821_03c	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 3	10-18-10
	HW-821_03d	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) VERTICAL SHAPE SHEET 4	10-18-10
	HW-821_03e	TRANSITION - 32" (813) JERSEY SHAPE TO 45" (1145) F-SHAPE	7-24-13

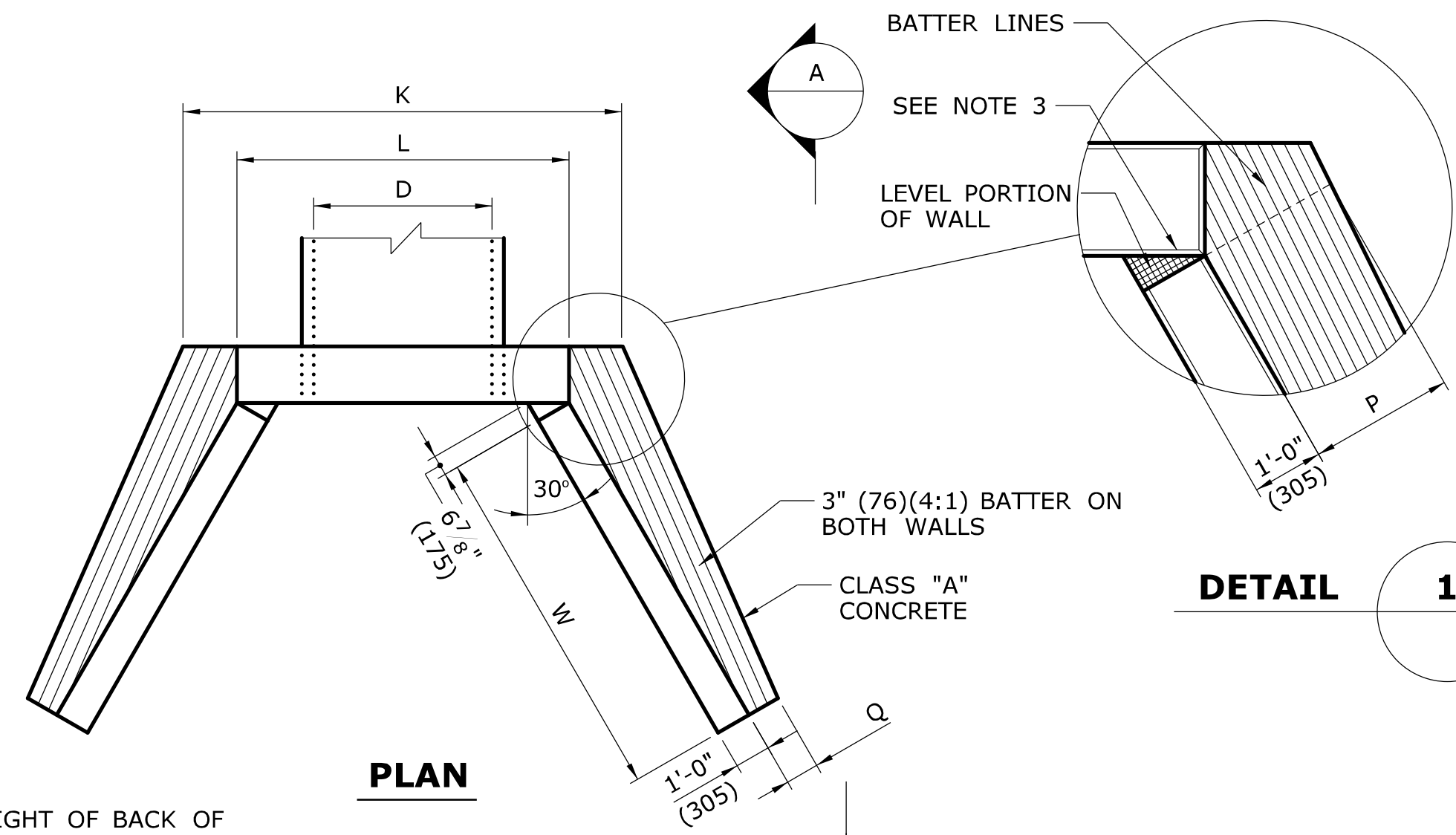
✓*	SHEET NO.	TITLE	APPROVAL DATE**
	HW-821_04a	MERRITT PARKWAY NARROW MEDIAN BARRIER	6-09-11
	HW-821_04b	MERRITT PARKWAY - 2' (610) WIDE MEDIAN BARRIER AND ROADSIDE BARRIER	7-24-13
	HW-821_05a	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 1	1-26-12
	HW-821_05b	TRANSITION - 45" (1145) F-SHAPE TO 54" (1372) VERTICAL SHAPE SHEET 2	1-26-12
	HW-821_06	54" (1372) VERTICAL SHAPE BARRIER	2-06-12
	HW-821_07	MISCELLANEOUS DETAILS FOR BARRIER TRANSITIONS	7-12-12
✓	HW-822_01	TEMPORARY PRECAST CONCRETE BARRIER CURB	7-24-13
	HW-905_01	STONE WALL FENCE	1-25-19
	HW-906_01	WIRE FENCE	1-25-19
✓	HW-910_01	W-BEAM METAL BEAM RAIL HARDWARE	6-09-11
	HW-910_02	METAL BEAM RAIL (TYPE R-B 350) GUIDERAIL	6-09-11
	HW-910_03	METAL BEAM RAIL (TYPE MD-B 350)	6-09-11
	HW-910_04	METAL BEAM RAIL (TYPE R-B 350) SYSTEMS 5, 5A, & 6	6-09-11
	HW-910_05	METAL BEAM RAIL R-B 350 SPAN TYPE I, II, III SECTIONS	7-24-13
	HW-910_06	R-B 350 BRIDGE ATTACHMENT SAFETY SHAPE PARAPET	6-09-11
	HW-910_07	R-B 350 BRIDGE ATTACHMENT VERTICAL SHAPE PARAPET	1-25-19
	HW-910_08	R-B 350 BRIDGE ATTACHMENT TRAILING END	6-09-11
	HW-910_09a	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 1	1-26-12
	HW-910_09b	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 2	7-25-12
	HW-910_10	METAL BEAM RAIL 8" (203) X 6" (152) BOX BEAM	7-24-13
	HW-910_11	CURVED GUIDERAIL TREATMENT DETAIL	7-25-12
	HW-910_12a	MERRITT PARKWAY GUIDERAIL ATTACHMENT - SYSTEM 2 & 3	7-24-13
	HW-910_12b	MERRITT PARKWAY GUIDERAIL	7-24-13
	HW-910_12c	MERRITT PARKWAY GUIDERAIL TRAILING END ATTACHMENTS	7-24-13
	HW-910_12d	MERRITT PARKWAY MEDIAN GUIDERAIL AND END ANCHOR	6-09-11
	HW-910_13a	THRIE-BEAM METAL BEAM RAIL HARDWARE	7-24-13
	HW-910_13b	THRIE-BEAM TRANSITIONS	7-24-13
	HW-910_14a	THRIE-BEAM 350 BRIDGE ATTACHMENT	6-09-11
	HW-910_14b	THRIE-BEAM 350 GUIDERAIL TRANSITION TO R-B 350 GUIDERAIL	6-09-11
	HW-910_15	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE I	6-09-11
	HW-910_16	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE II	6-09-11
	HW-910_17	R-B TERMINAL SECTION	7-24-13
	HW-910_18	METAL BEAM RAIL (TYPE MD-I)	10-18-10

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		NOT TO SCALE	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	CTDOT STANDARD SHEET OFFICE OF ENGINEERING	STANDARD SHEET TITLE: HIGHWAY STANDARD SHEET INDEX	STANDARD SHEET NO.: HW_INX 1 of 2
REV. DATE	REVISION DESCRIPTION	Plotted Date: 1/23/2019	Filename: CTDOT-HIGHWAY-STD-[1-23-19].dgn Model: 1 - HW-INX-1			

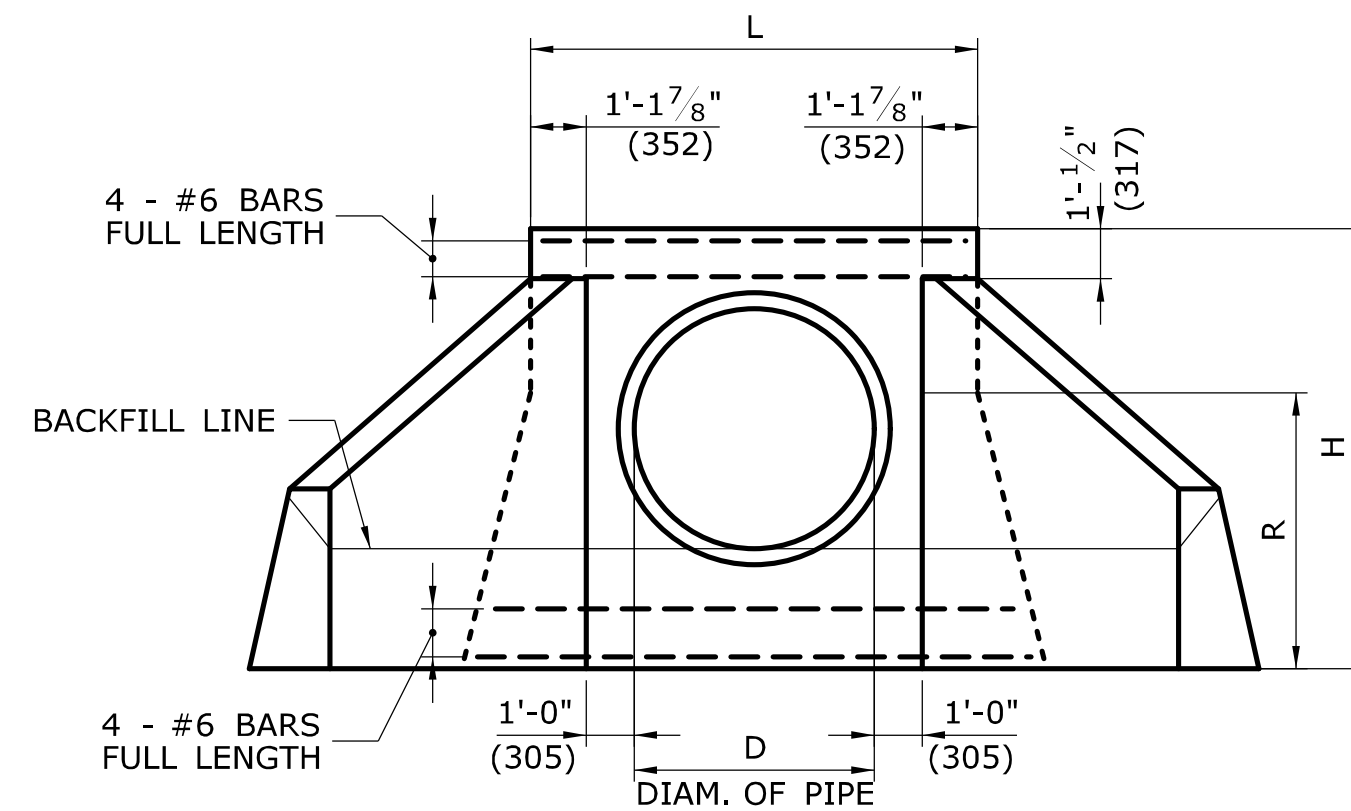
DIMENSIONS AND QUANTITIES FOR ONE WING TYPE ENDWALL											
D	B	C	G	H	K	L	P	Q	R	W	VOL
INS.(mm)	FT.&IN.(mm)	FT.&IN.(mm)	FT.&IN.(mm)	FT.&IN.(mm)	FT.&IN.(mm)	FT.&IN.(mm)	FT.&IN.(mm)	FT.&IN.(mm)	FT.&IN.(mm)	FT.&IN.(mm)	CU.YD.(m ³)
36"(914)	1'-6" (457)	2'-0" (610)	3'-3" (991)	6'-8" (2032)	9'-1 1/2" (2781)	7'-3 3/4" (2229)	1'-4 7/8" (430)	0'-9 3/4" (248)	3'-4 7/8" (1038)	5'-5 3/4" (1670)	5.87(4.5)
42"(1000)	1'-6" (457)	2'-0" (610)	3'-3" (991)	7'-2" (2184)	9'-10 1/2" (3010)	7'-9 3/4" (2381)	1'-6 3/8" (470)	0'-9 3/4" (248)	3'-10 1/2" (1181)	6'-7 3/4" (2026)	6.67(5.1)
48"(1200)	1'-7" (483)	2'-6" (762)	3'-9" (1143)	8'-2" (2489)	10'-10" (3302)	8'-3 3/4" (2534)	1'-9 3/8" (540)	0'-11 1/4" (286)	4'-9" (1448)	7'-9 1/2" (2375)	9.11(7.0)
60"(1500)	1'-7" (483)	2'-6" (762)	3'-9" (1143)	9'-2" (2794)	12'-4 1/2" (3772)	9'-3 3/4" (2838)	2'-0 3/8" (620)	0'-11 1/4" (286)	5'-9" (1753)	10'-1 1/4" (3080)	12.43(9.5)
72"(1800)	1'-7" (483)	2'-6" (762)	3'-9" (1143)	10'-2" (3099)	13'-10 3/4" (4235)	10'-3 3/4" (3143)	2'-3 3/8" (690)	0'-11 1/4" (286)	6'-9" (2057)	12'-5" (3785)	16.30(12.5)

H = TOTAL HEIGHT OF ENDWALL
 B = BASE
 D = INSIDE DIAMETER OF PIPE
 S = HEIGHT OF SLOPE ABOVE FLOW LINE AT FACE OF WALL = D+2"(51) MIN.
 L = LENGTH OF WALL = 3S+D
 ALL EDGES OF EXPOSED SURFACES SHALL BE CHAMFERED APPROXIMATELY ONE INCH (25mm).

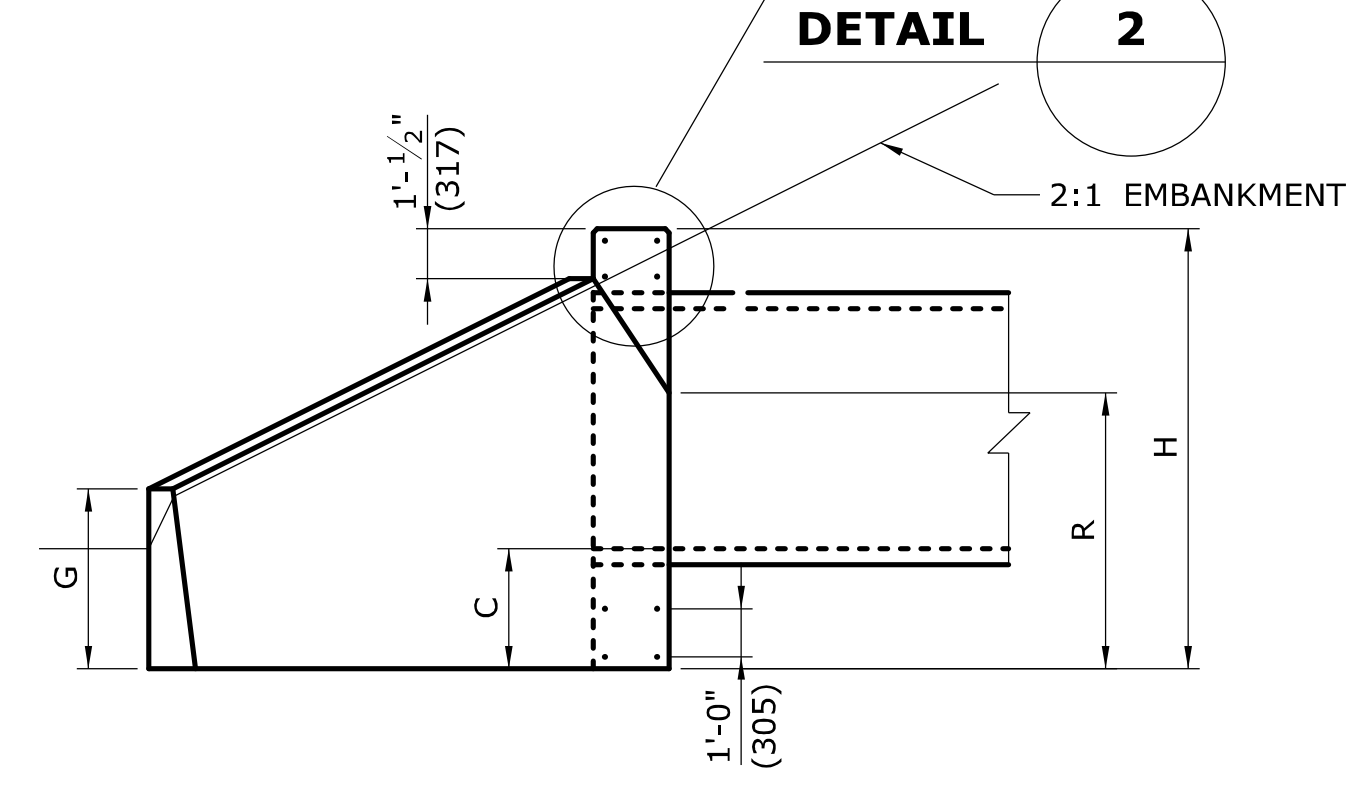
- GENERAL NOTES:**
- ALL CONSTRUCTION DIMENSIONS ARE NOMINAL. WHEN ONE ENDWALL IS USED FOR TWO PIPES, THE DIMENSIONS OF THE ENDWALL SHALL CONFORM TO THAT WHICH IS REQUIRED FOR THE LARGER PIPE, EXCEPT THE DIMENSION "L" SHALL BE INCREASED BY THE OUTSIDE DIAMETER OF THE SMALLER PIPE PLUS ONE FOOT.
 - THESE ENDWALLS SHALL ONLY BE USED AT LOCATIONS WHERE THEY ARE OUTSIDE THE DESIGN CLEAR ZONE.
 - COST OF REINFORCING BARS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR CLASS "A" CONCRETE.
 - ALL REINFORCING BARS SHALL HAVE 3" (76) COVER MIN.



DETAIL 1



FRONT ELEVATION



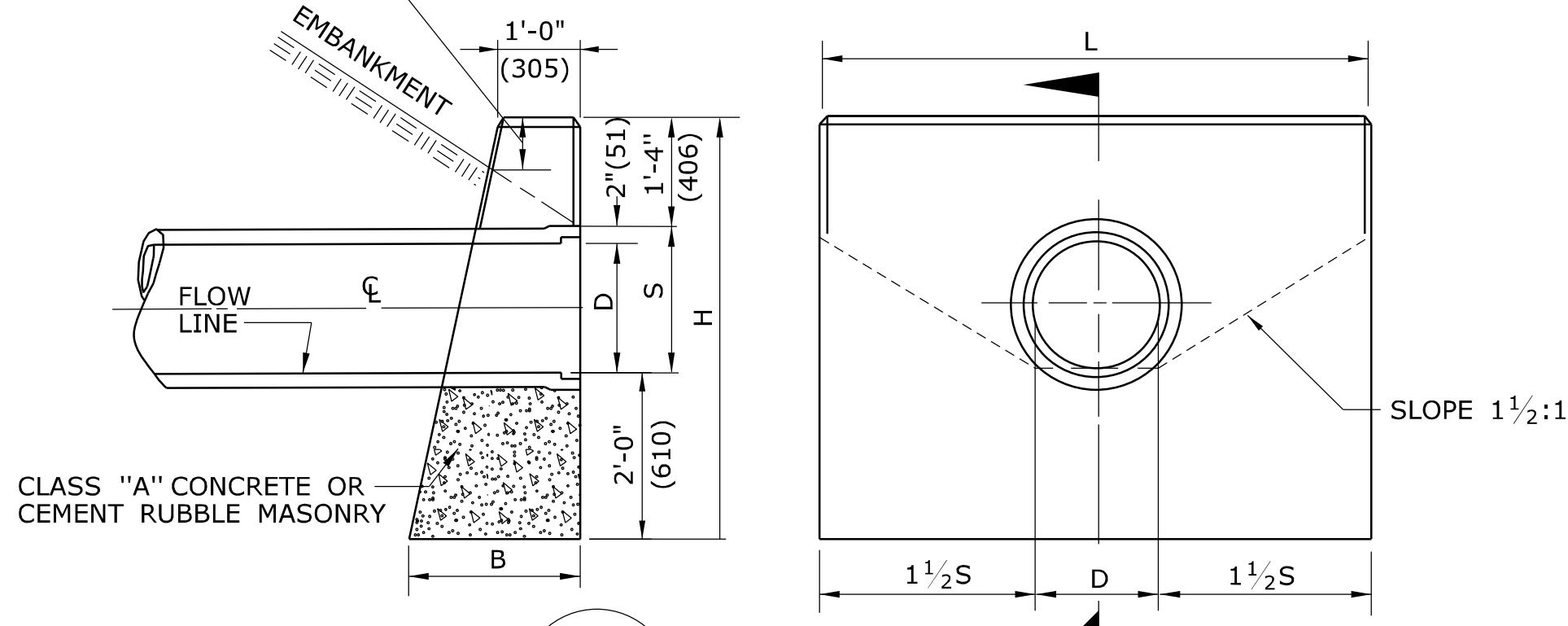
VIEW A

TABLE WITH QUANTITIES		
D	VOLUME OF FOOTING	SLOPE * PAVING
INS.(mm)	C.Y.(m ³)	S.Y.(m ²)
15"(375-400)	0.26(0.20)	3.2(2.7)
18"(457)	0.30(0.23)	3.5(2.9)
24"(610)	0.37(0.28)	4.0(3.3)
30"(750-800)	0.37(0.34)	4.6(3.8)
36"(914)	1.55(1.2)	4.7(3.9)
42"(1000-1050)	1.69(1.3)	5.4(4.5)
48"(1200)	1.82(1.4)	6.1(5.1)
60"(1500-1600)	2.08(1.6)	7.6(6.4)
72"(1829)	2.34(1.8)	9.3(7.8)

* APPROXIMATE QUANTITY FOR MINIMUM CONDITION

STANDARD WING TYPE ENDWALL
 REINFORCEMENT SHALL BE USED FOR 48" (1219) DIA. PIPE AND UP

EXPOSED HEIGHT OF BACK OF WALL ABOVE SLOPE SHALL BE:
 7"(178) FOR SLOPES OF 1 1/2:1 & 4:1
 9"(229) FOR SLOPES 2:1



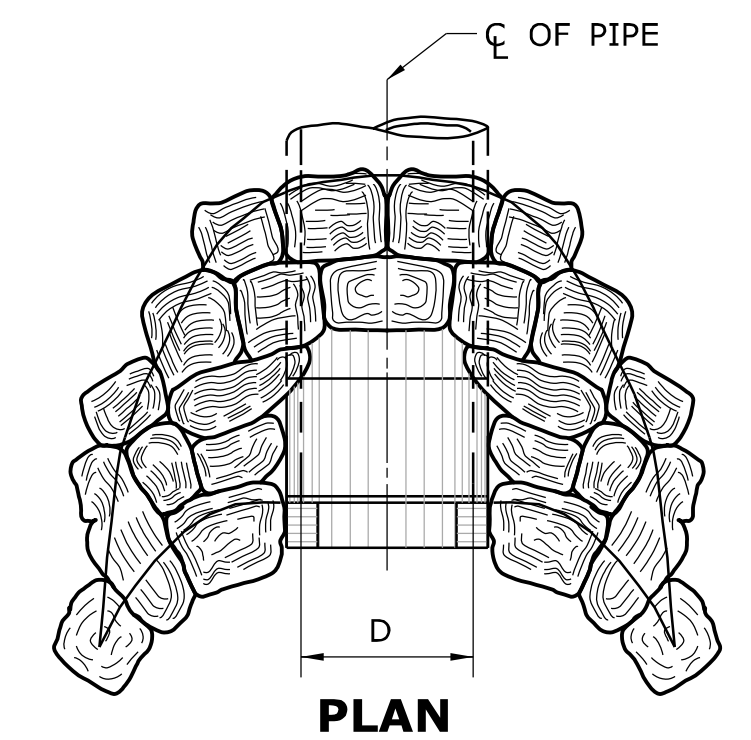
SECTION C

FRONT ELEVATION

STANDARD ENDWALL

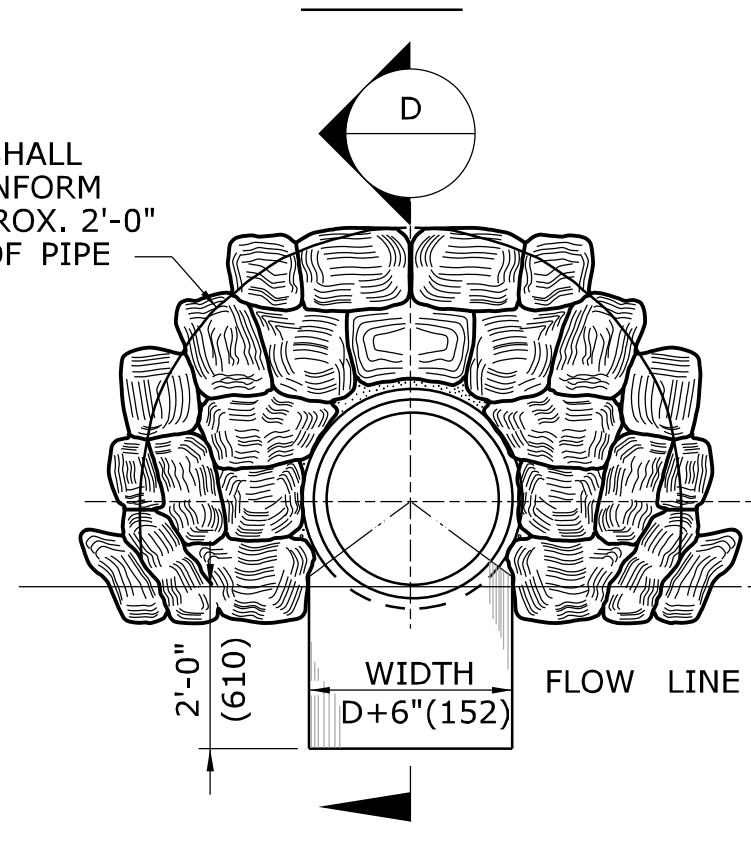
DIMENSIONS AND QUANTITIES FOR ONE ENDWALL BASED ON S = D + 2" (51 mm)						
D	S	H	L	BATTER	B	VOL.
IN.(mm)	FT. & IN.(mm)	FT. & IN.(mm)	FT. & IN.(mm)	FT. & IN.(mm)	FT. & IN.(mm)	CU.YD.(m ³)
12"(305)	1'-2" (356)	4'-6" (1372)	4'-6" (1372)	2 1/2"(5:1)	1'-11 1/4" (590)	1.10(.8)
15"(381)	1'-5" (432)	4'-9" (1448)	5'-6" (1676)	2 1/2"(5:1)	1'-11 7/8" (606)	1.45(1.0)
18"(457)	1'-8" (508)	5'-0" (1524)	6'-6" (1981)	2 1/2"(5:1)	2'-0 1/2" (622)	1.83(1.4)
24"(610)	2'-2" (660)	5'-6" (1676)	8'-6" (2591)	2 1/2"(5:1)	2'-1 3/4" (654)	2.72(2.1)
30"(762)	2'-8" (813)	6'-0" (1829)	10'-6" (3200)	2 1/2"(5:1)	2'-3" (686)	3.79(2.7)
36"(914)	3'-2" (965)	6'-6" (1981)	12'-6" (3810)	3"(4:1)	2'-7 1/2" (790)	5.45(4.2)
42"(1067)	3'-8" (1118)	7'-0" (2134)	14'-6" (4420)	3"(4:1)	2'-9" (838)	6.40(4.9)*
48"(1219)	4'-2" (1270)	7'-6" (2286)	16'-6" (5029)	3"(4:1)	2'-10 1/2" (876)	8.00(6.1)*

* VOLUME IS BASED ON D MINUS WALL THICKNESS AT CL OF PIPE



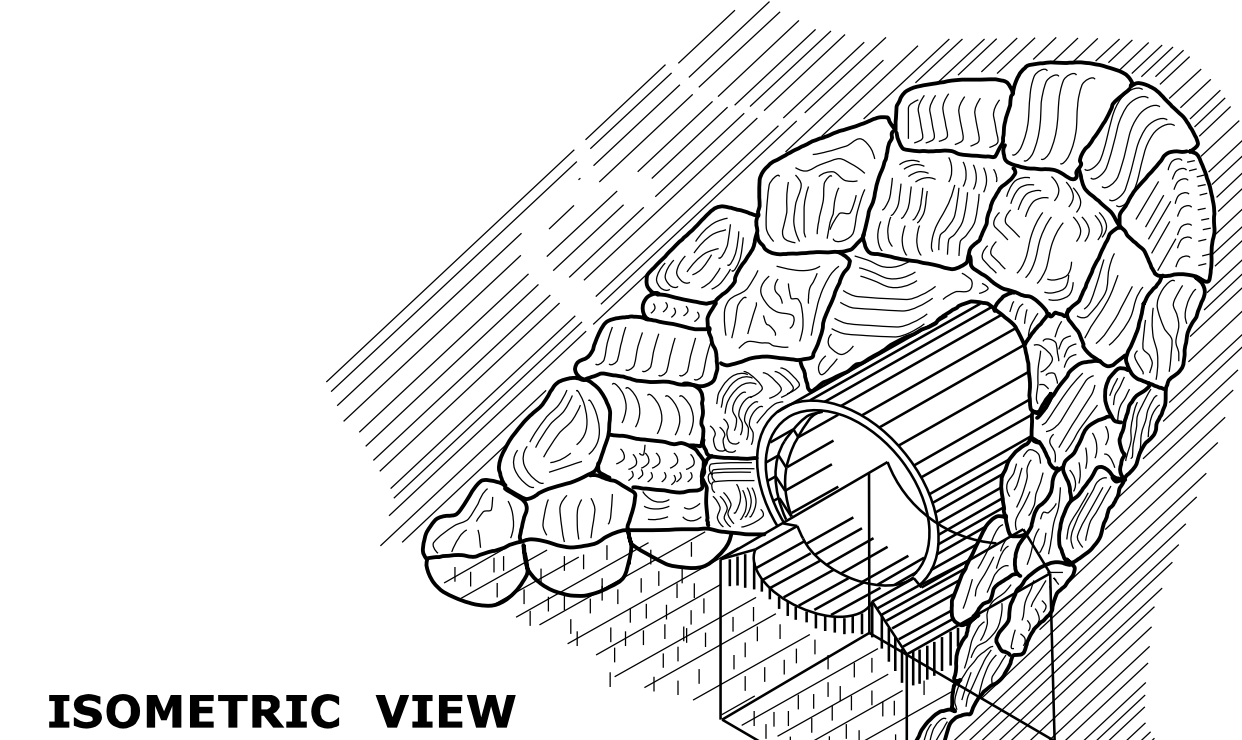
PLAN

ISOMETRIC VIEW

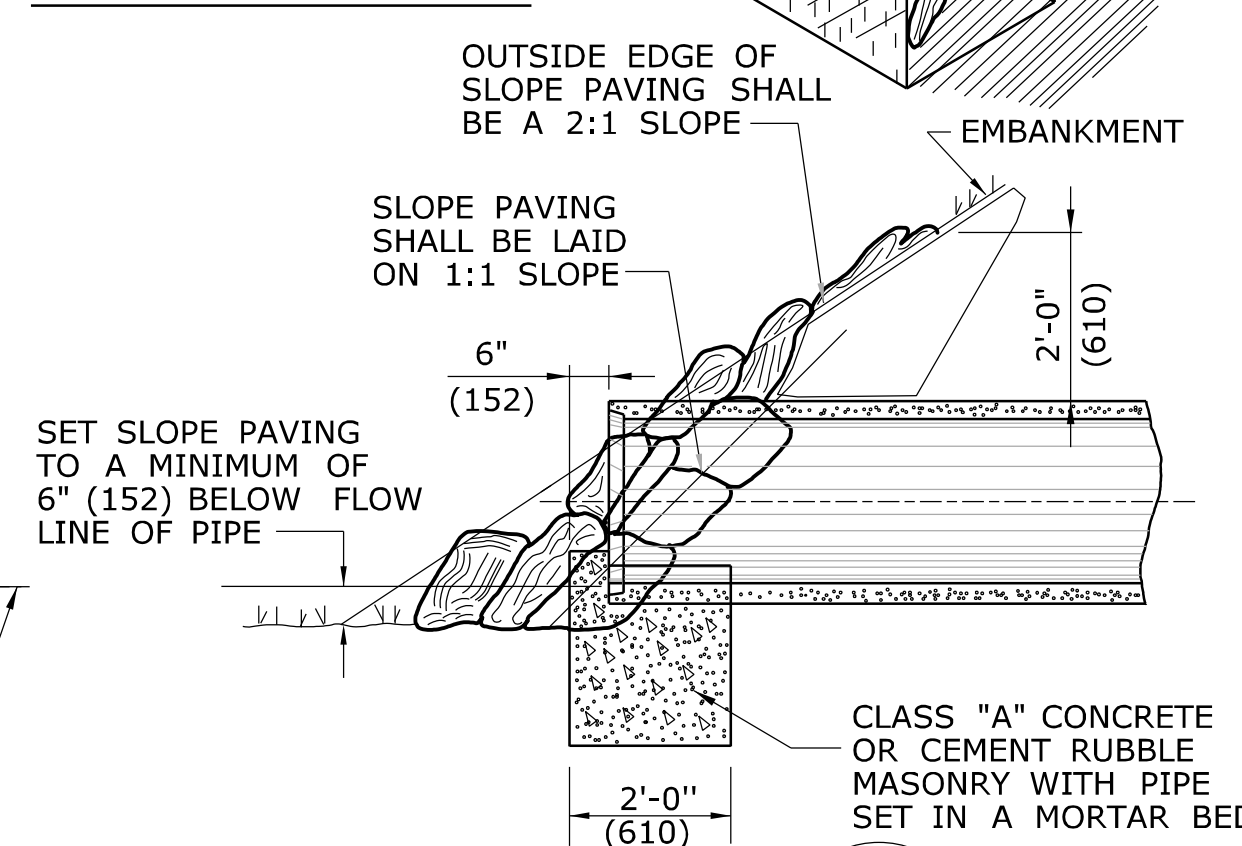


FRONT ELEVATION

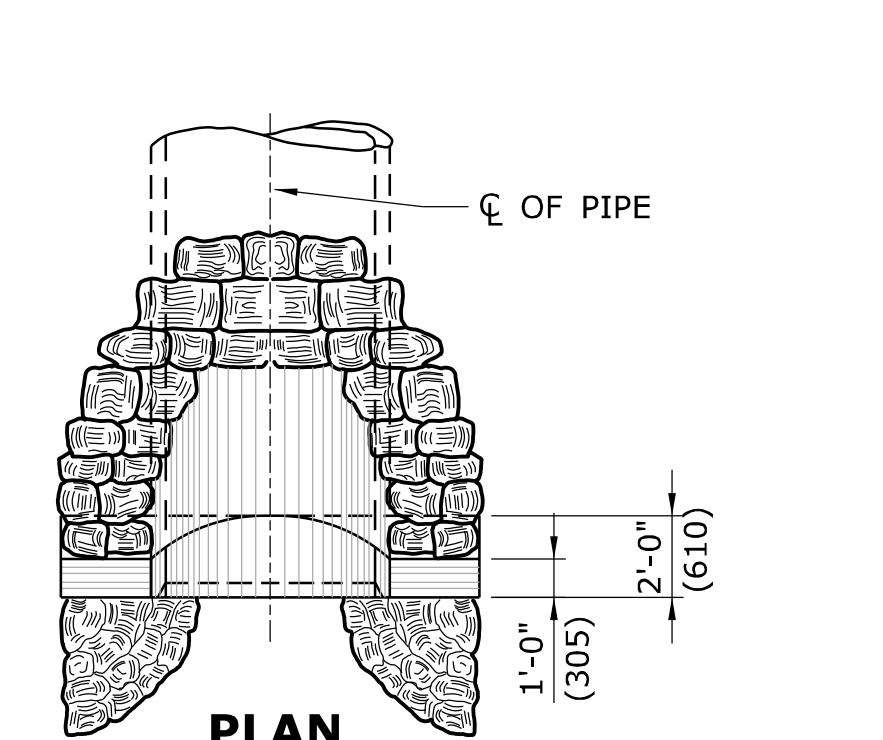
FOOTING & SLOPE PAVING FOR PIPES 15"(381) TO 30"(762) DIAMETER



ISOMETRIC VIEW

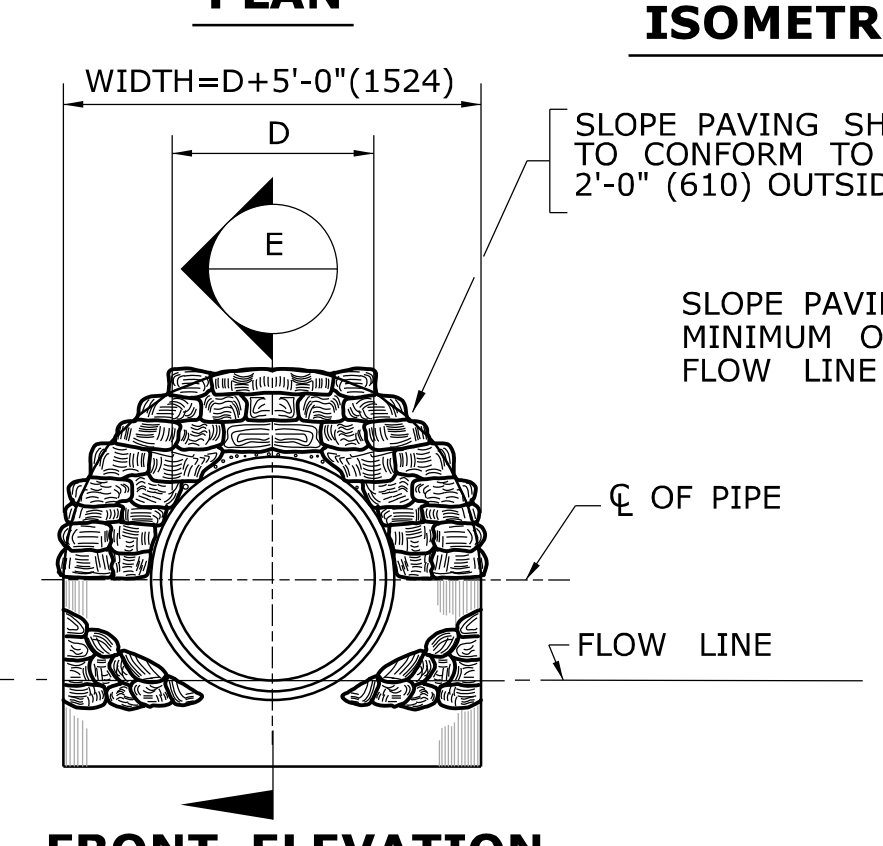


SECTION D



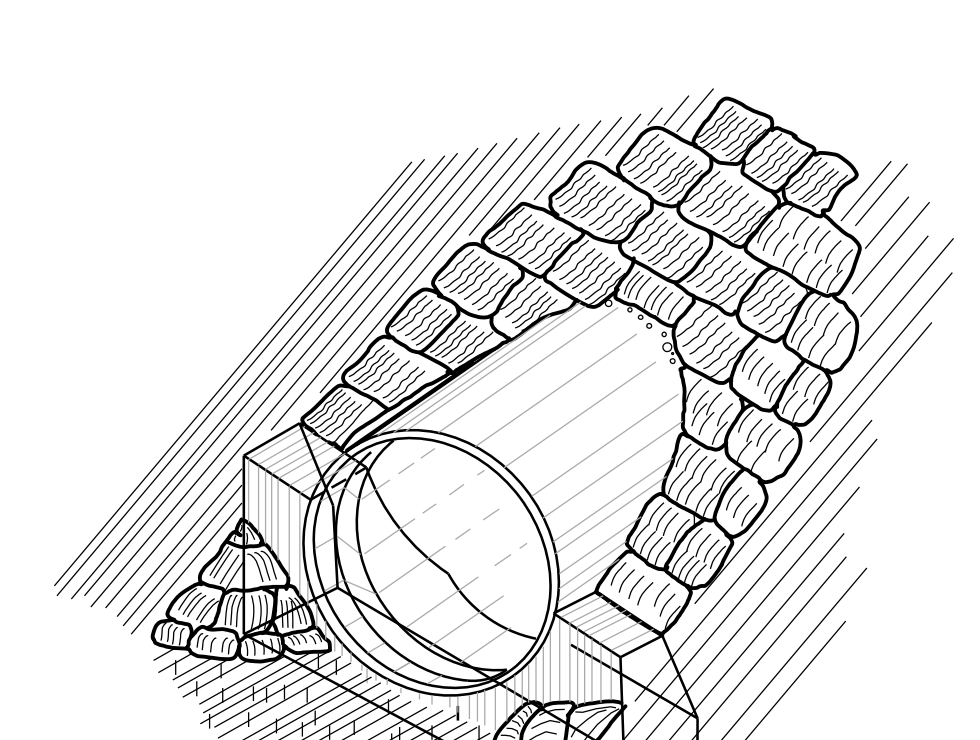
PLAN

ISOMETRIC VIEW

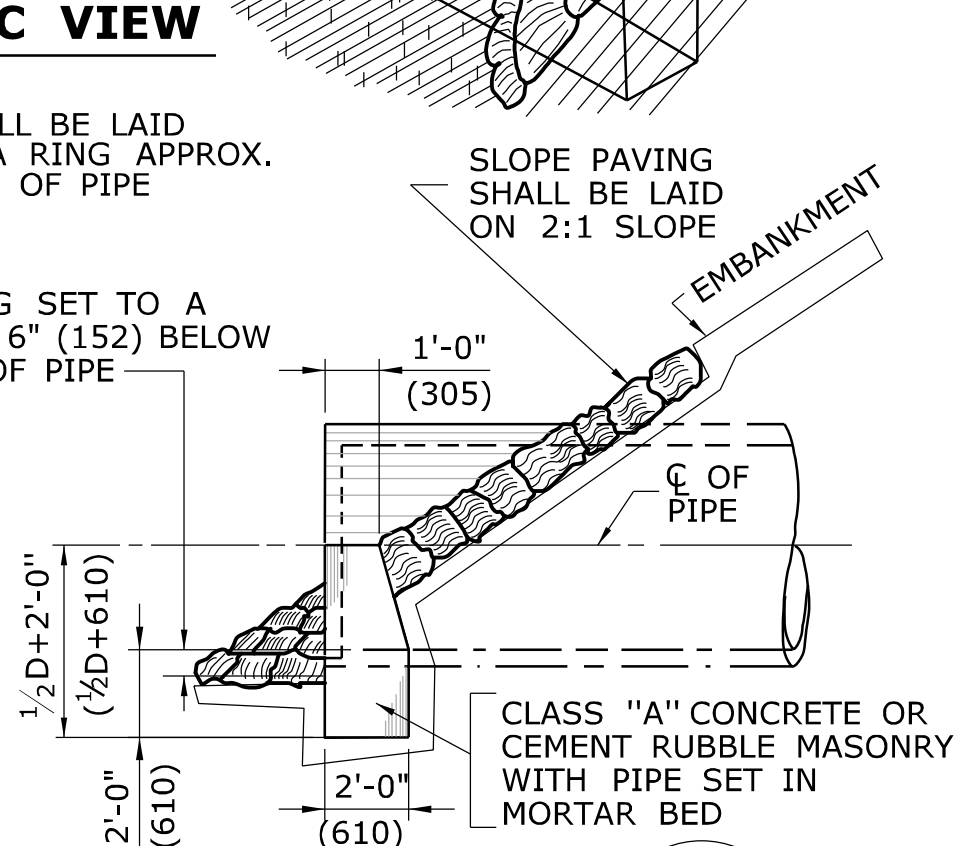


FRONT ELEVATION

FOOTING & SLOPE PAVING FOR PIPES 36"(914) TO 72"(1829) DIAMETER



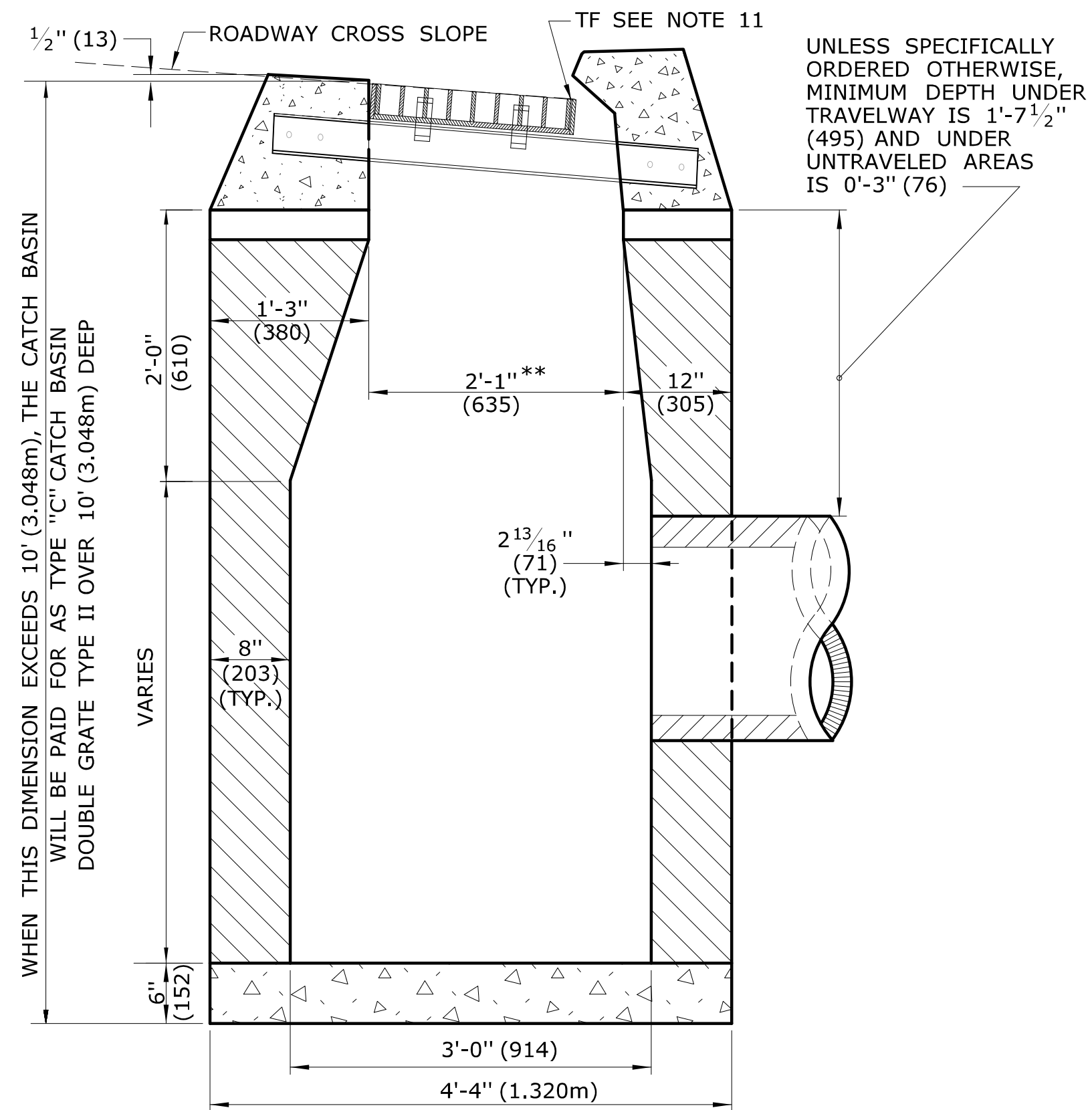
ISOMETRIC VIEW



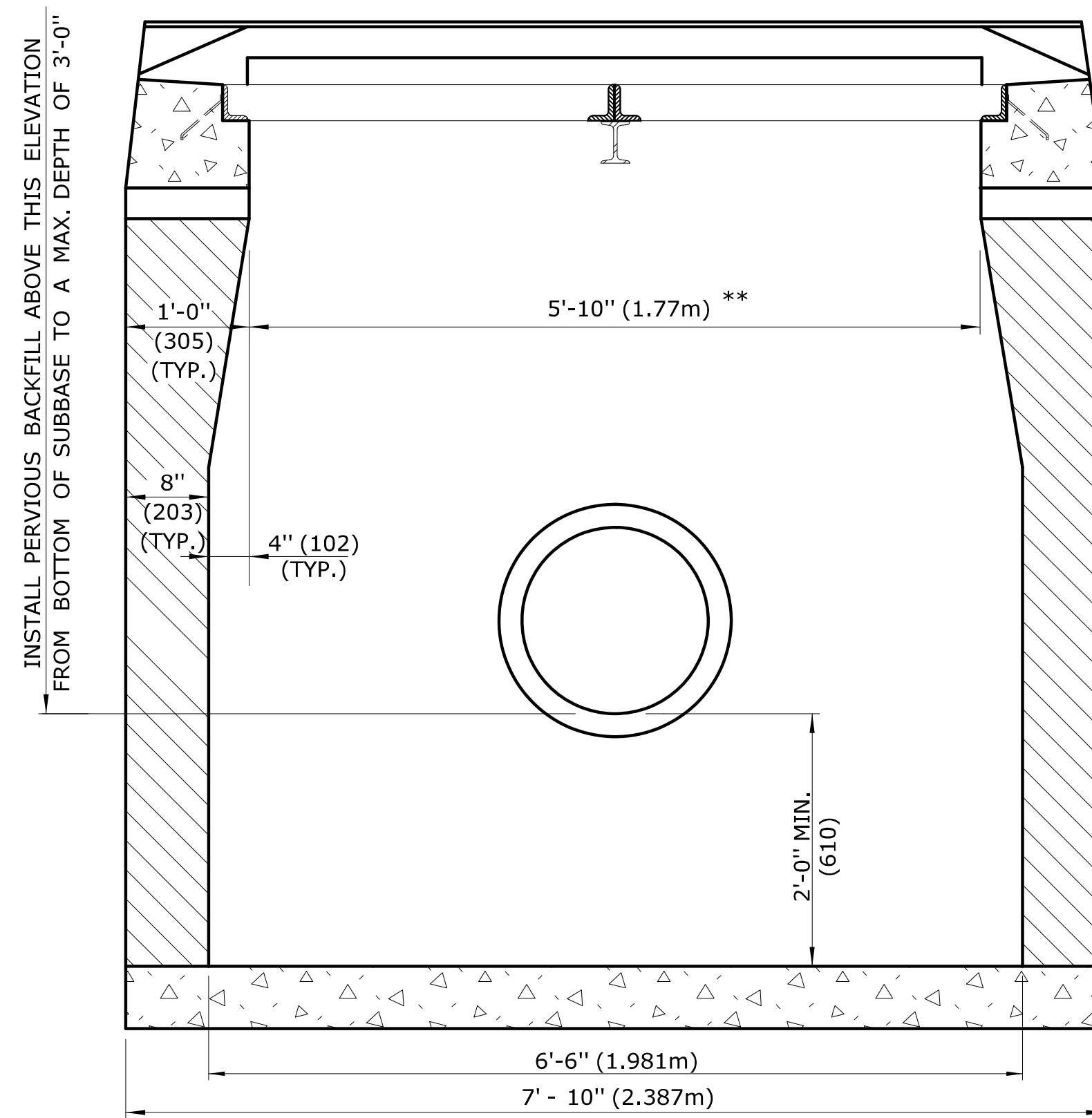
SECTION E

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

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		NOT TO SCALE				SUBMITTED BY: NAME/DATE/TIME: Leo Fontaine 2012.01.13 13:17:14 -05'00'		STANDARD SHEET TITLE: ENDWALLS, SLOPE PAVED INLETS AND OUTLETS		STANDARD SHEET NO.: HW-506_01	
1 10/27/11 ADD DETAIL 1 AND 2 REDRAW STD. WING ENDWALL		Plotted Date: 11/16/2011		Filename: working_revisions.dgn Model: HW-506_01		APPROVED BY: NAME/DATE/TIME: James H. Norman 2012.01.26 15:25:12 -05'00'		CTDOT STANDARD SHEET		OFFICE OF ENGINEERING	

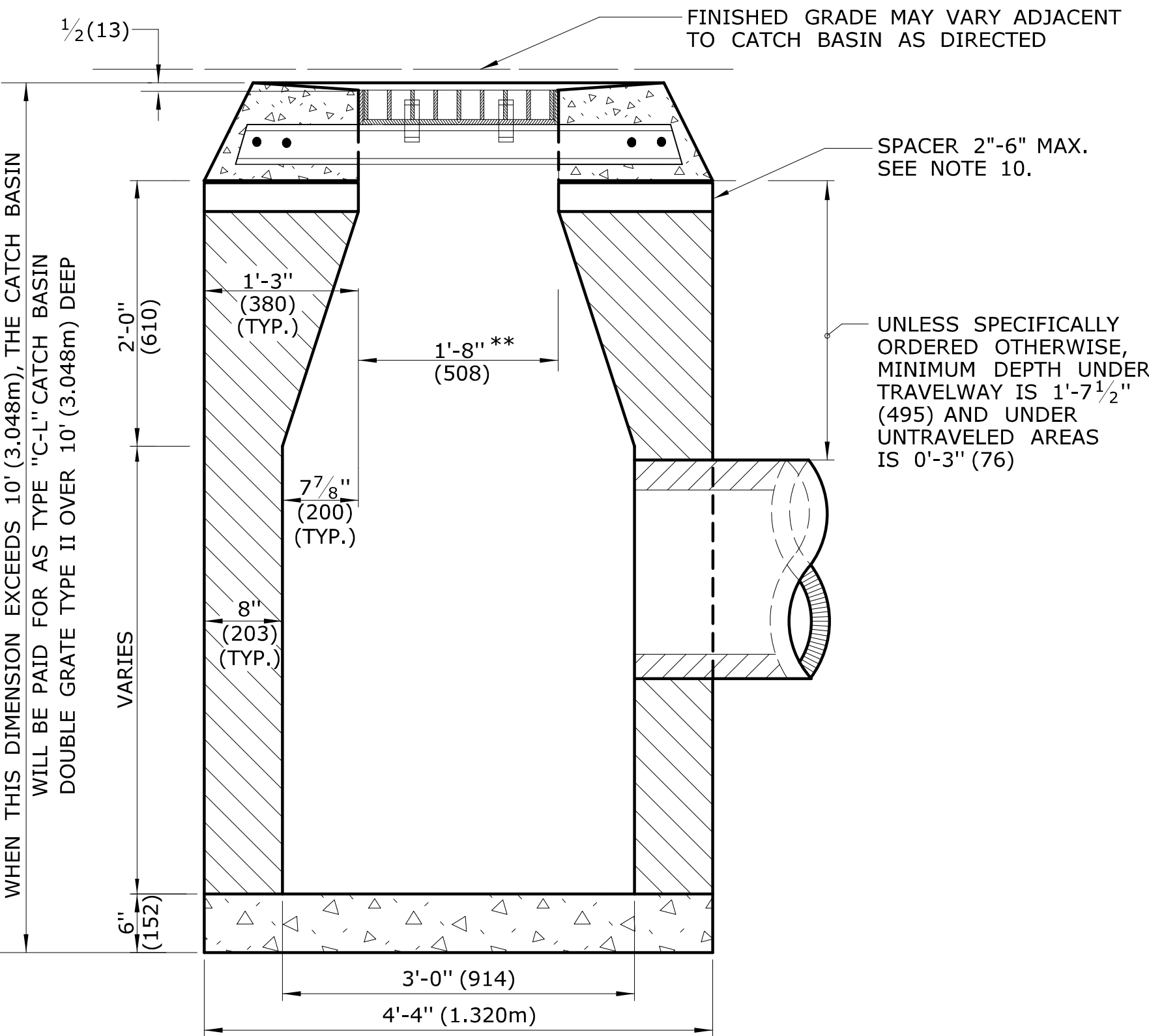


SECTION B

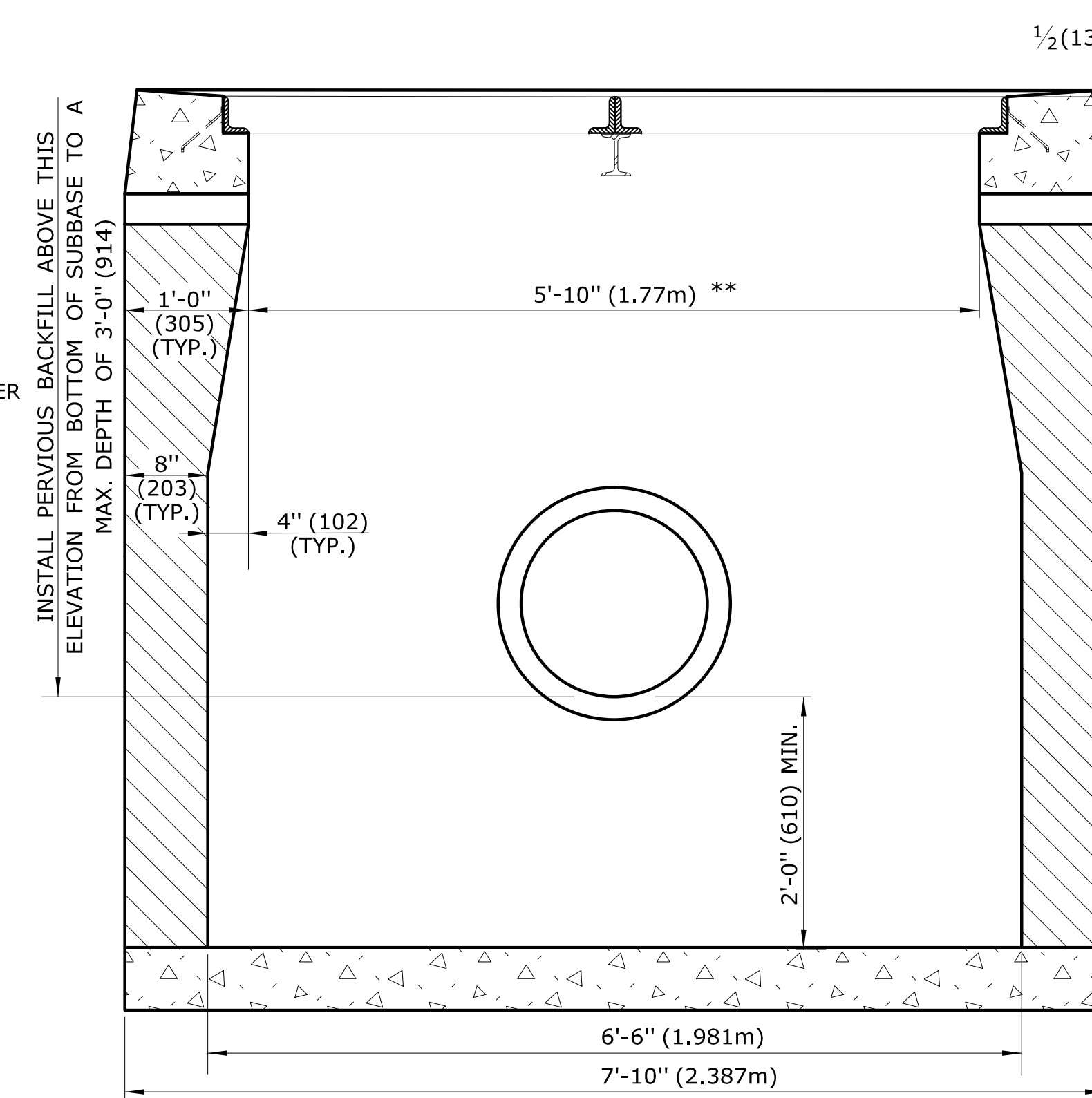


SECTION A

TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II



SECTION B

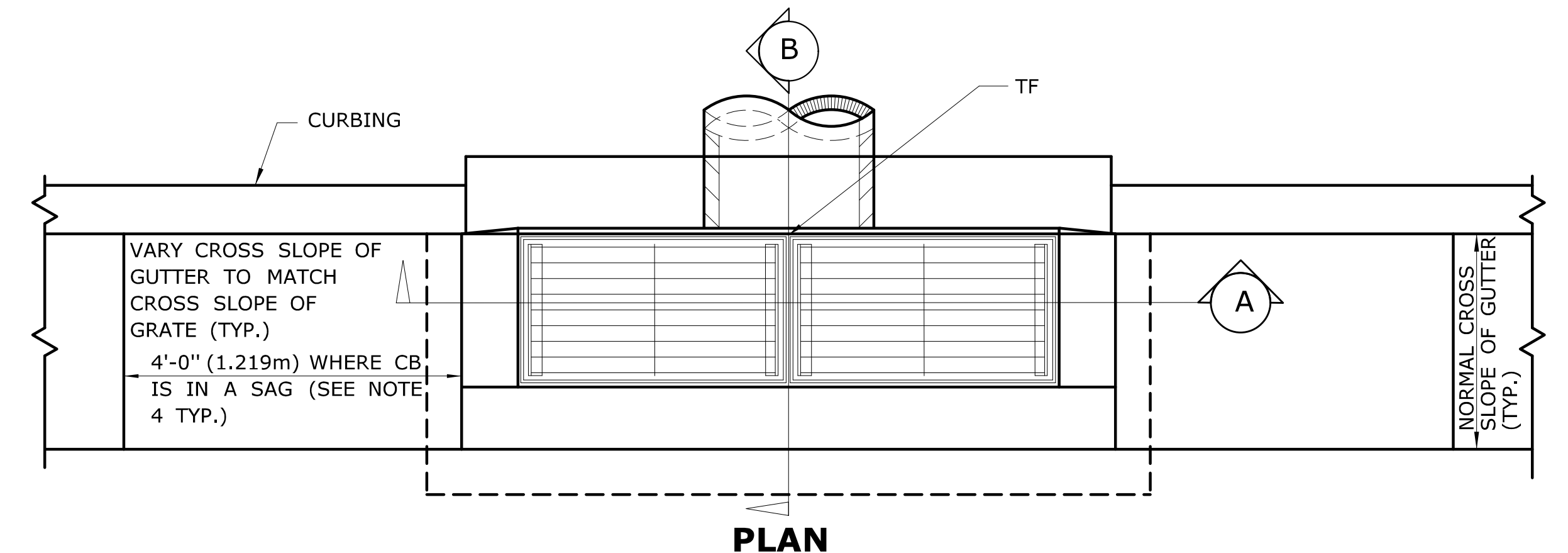


SECTION A

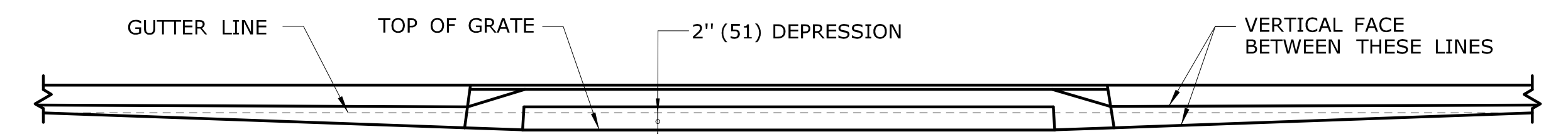
TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II

GENERAL NOTES:

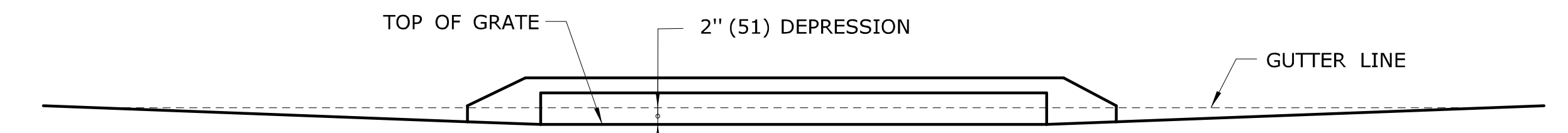
- FOR DETAILS OF FRAME AND GRATE SEE STANDARD SHEET HW-507_08.
- USE APPROPRIATE CONCRETE TOP FOR CURBING SHOWN ON PLANS. IF CURBING IS NOT SPECIFIED ON THE PLANS, IT SHALL BE CONSTRUCTED AS DIRECTED BY THE ENGINEER.
- ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL. THE COST FOR THE PAPER SHALL BE INCLUDED IN THE BID PRICE FOR THE TYPE OF CATCH BASIN INSTALLED.
- USE 6'-0" (1.830m) ON UPGRADE SIDE OF CONTINUOUS GRADE AND 1'-0" (305) ON DOWNGRADE SIDE OF CONTINUOUS GRADE OR AS DIRECTED.
- IF MASONRY UNITS ARE REQUIRED, THE BASIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE OVER ALL DIMENSIONS SHOWN HERE AND SECTION 5.07 OF THE STATE OF CONNECTICUT'S STANDARD SPECIFICATIONS. CORBELLING SHALL BE PERMITTED TO A MAXIMUM OF 3" (75). NO PROJECTION SHALL EXTEND INSIDE THE LIMITS NOTED BY **.
- WALL THICKNESS OF ALL CB'S OVER 10' (3.048m) DEEP SHALL BE INCREASED TO 12" (305) THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. (12" (305) THICKNESS WILL START AFTER THE FIRST 10' (3.048m)).
- TO CONVEY SUBSURFACE DRAINAGE, OPENINGS SHALL BE FORMED IN THE FOUR WALLS AT OR IMMEDIATELY ABOVE THE BOTTOM OF THE PERVIOUS BACKFILL.
- MINIMUM CONCRETE COMPRESSIVE STRENGTH OF F'c = 4000 PSI (27,580 kPa) SHALL BE OBTAINED PRIOR TO SHIPPING.
- LATEST STATE OF CONNECTICUT'S STANDARD SPECIFICATIONS AND SUPPLEMENTALS SHALL GOVERN.
- SPACER MAY BE CMU OR PRECAST WITH REQUIRED REINFORCING (RECOMMENDED BY THE MANUFACTURER) AS NEEDED TO PROVIDE PROPER GRADE SHOWN ON PLANS.
- TOP OF FRAME (TF) ELEVATION SHALL BE MEASURED IN BETWEEN BOTH GRATES @ THE GUTTER.



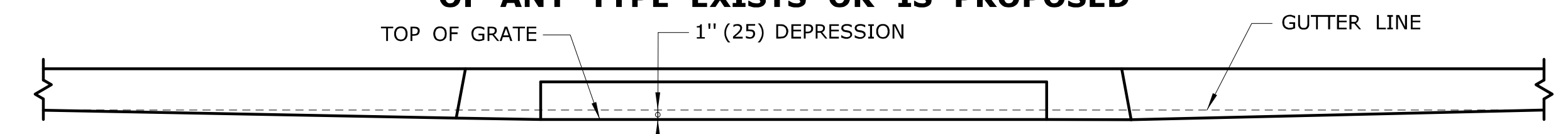
PLAN



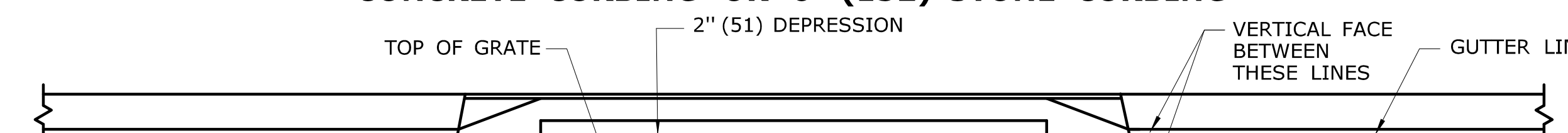
FOR CATCH BASINS IN A LINE OF 4" (102) CONCRETE PARK CURBING OR 4" (102) BITUMINOUS CONCRETE PARK CURBING



FOR CATCH BASINS WHERE NO CURBING OF ANY TYPE EXISTS OR IS PROPOSED



FOR CATCH BASINS IN A LINE OF 6" (152) CONCRETE CURBING OR 6" (152) STONE CURBING



FOR CATCH BASINS IN A LINE OF 6" (152) BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED)

DETAILS OF DEPRESSED GUTTER STRIP FOR TYPE "C" CATCH BASIN DOUBLE GRATE TYPE II

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

REV.	DATE	REVISION DESCRIPTION
4	7/13	ADD NOTE 11
3	10/3/11	ADD SPACERS AND NOTE 10.
2	9/15/11	MODIFIED DETAILS TO BE CONSISTANT WITH PRECAST
1	7/28/11	REMOVE MIN. DROP NOTE

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/21/2013

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

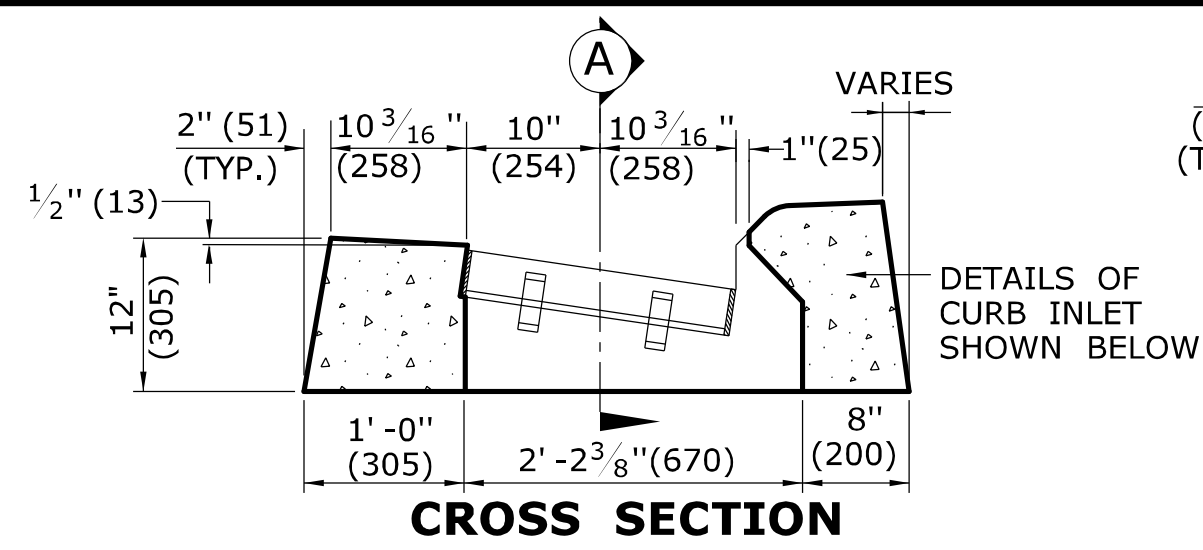
Filename: June2013.dgn Model: HW-507_03

SUBMITTED BY: NAME/DATE/TIME:
APPROVED BY: NAME/DATE/TIME:
James H. Norman
2013.07.24 14:42:32-04'00'

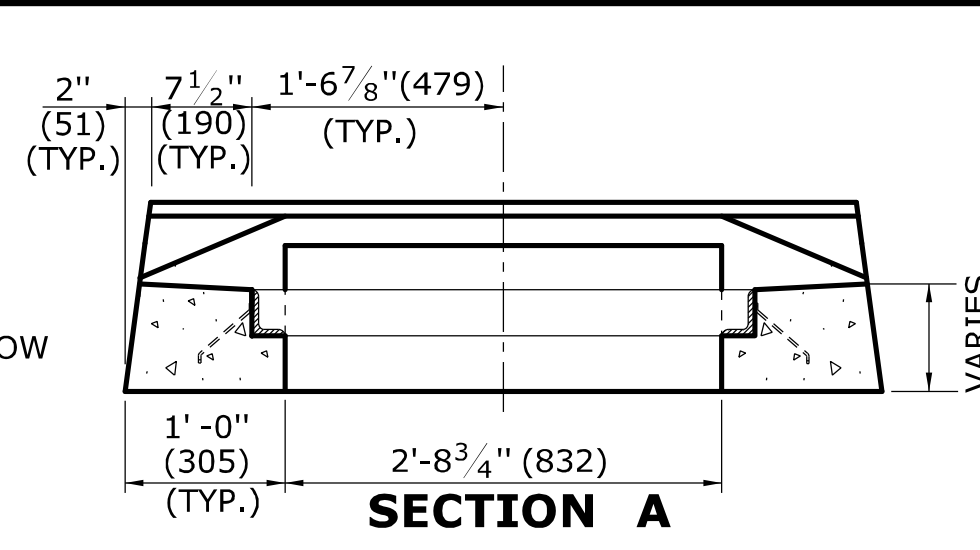
CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
TYPE "C" , "C-L" & DOUBLE GRATE TYPE - II

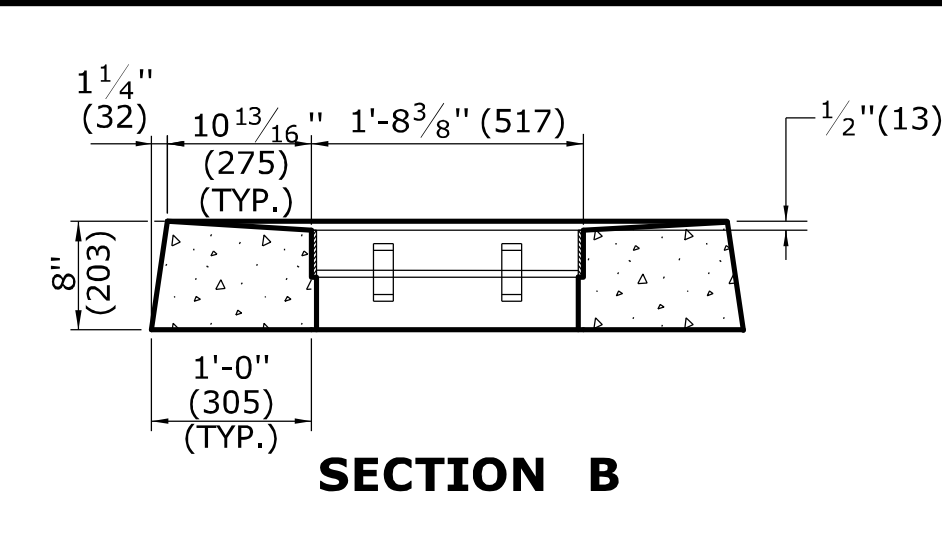
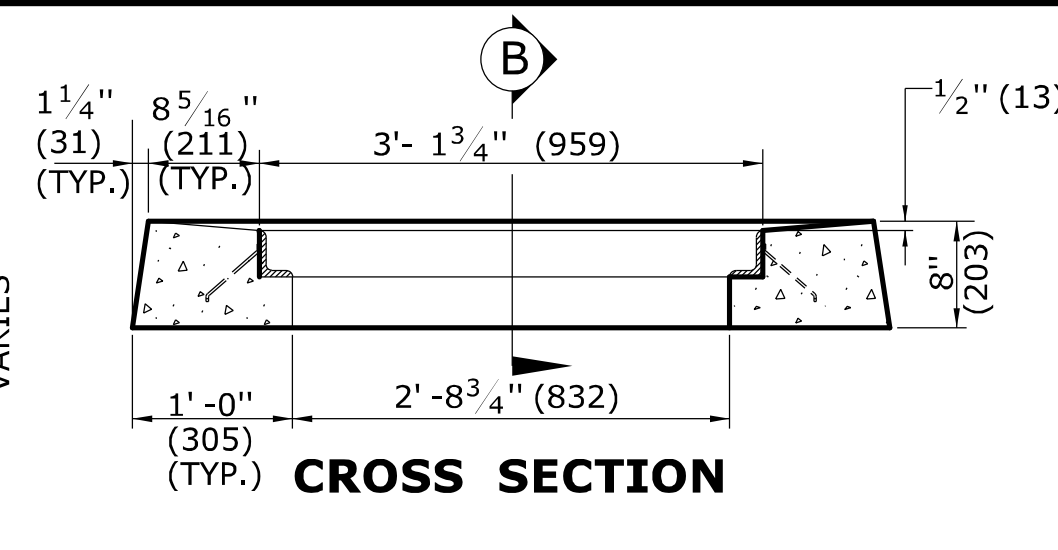
STANDARD SHEET NO.:
HW-507_03



CROSS SECTION
TYPE "C" CATCH BASIN TOP



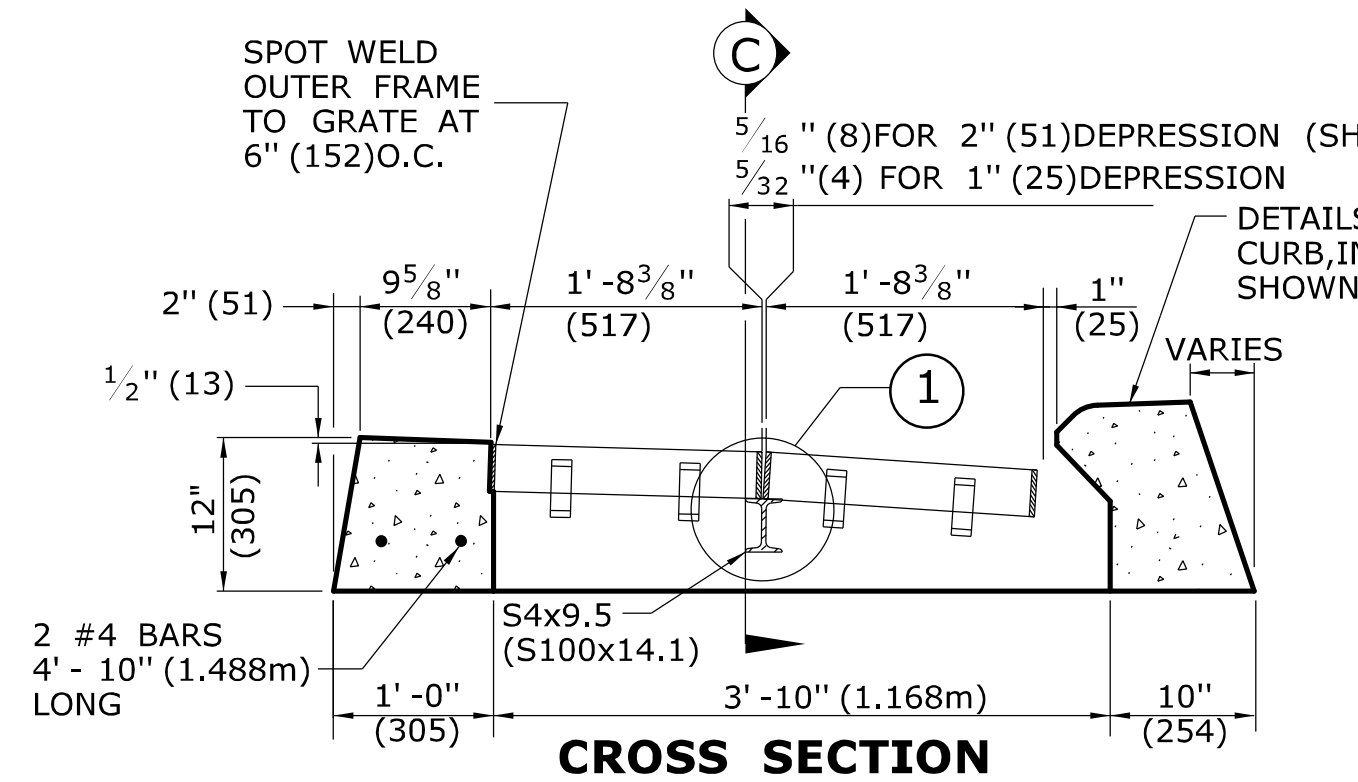
SECTION A
CROSS SECTION
TYPE "C-L" CATCH BASIN TOP



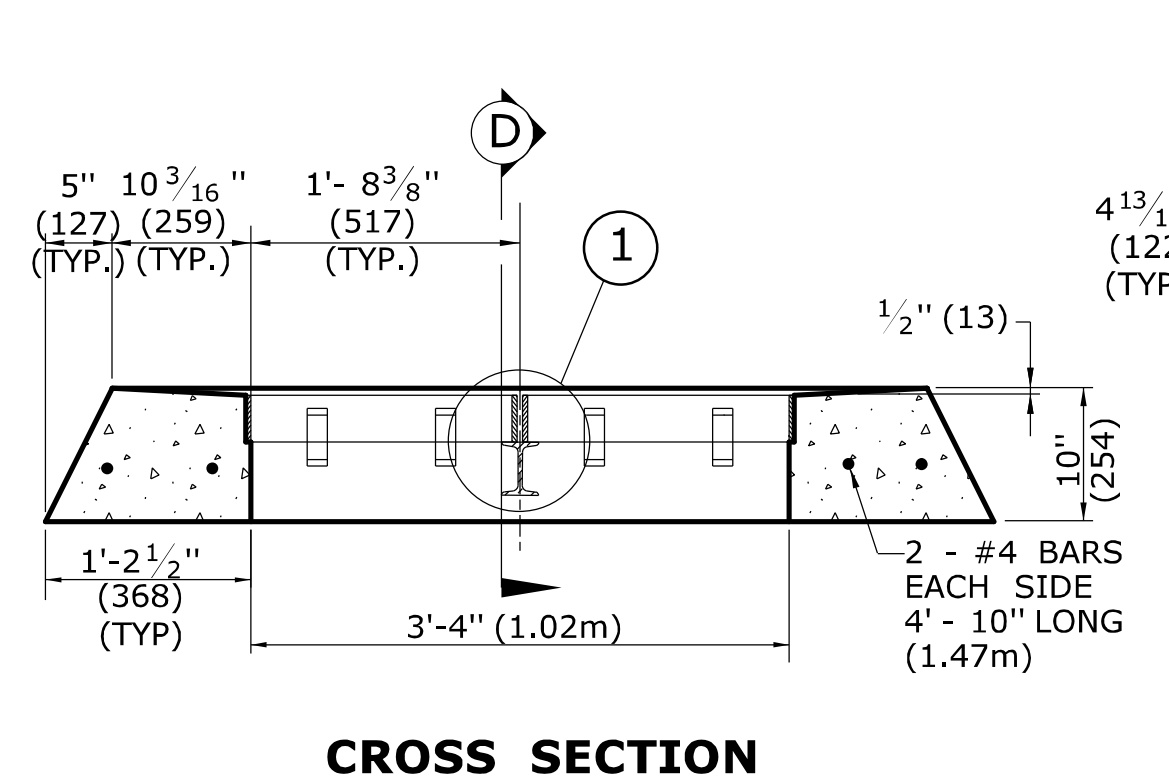
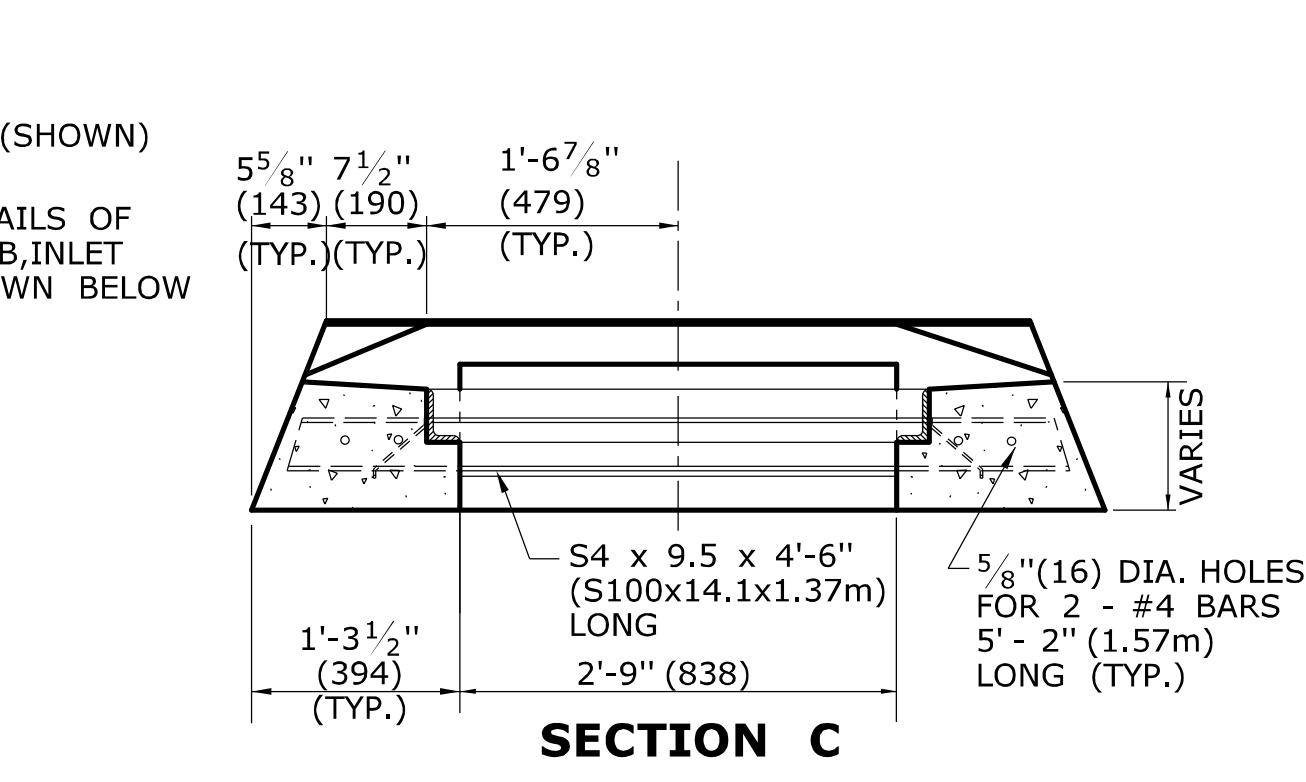
SECTION B
CROSS SECTION
TYPE "C-L" CATCH BASIN TOP

GENERAL NOTES:

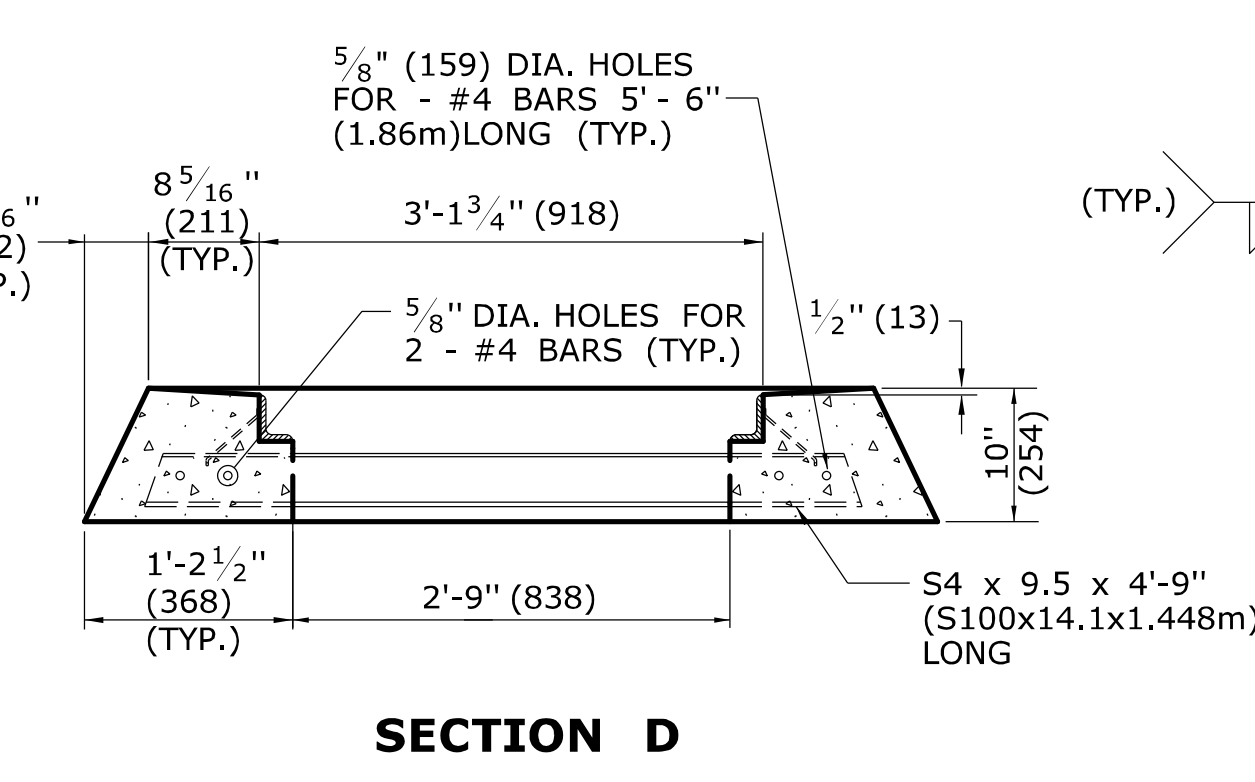
- FOR DETAILS OF FRAME AND GRATE SEE STANDARD SHEET HW-507_08.
- ALL STEEL, EXCEPT REINFORCING BARS, SHALL BE GALVANIZED IN CONFORMANCE WITH SECTION M06.03 OF CONNECTICUT'S STANDARD SPECIFICATIONS.
- ALL BARS SHALL HAVE A MINIMUM 2" (51) COVER.



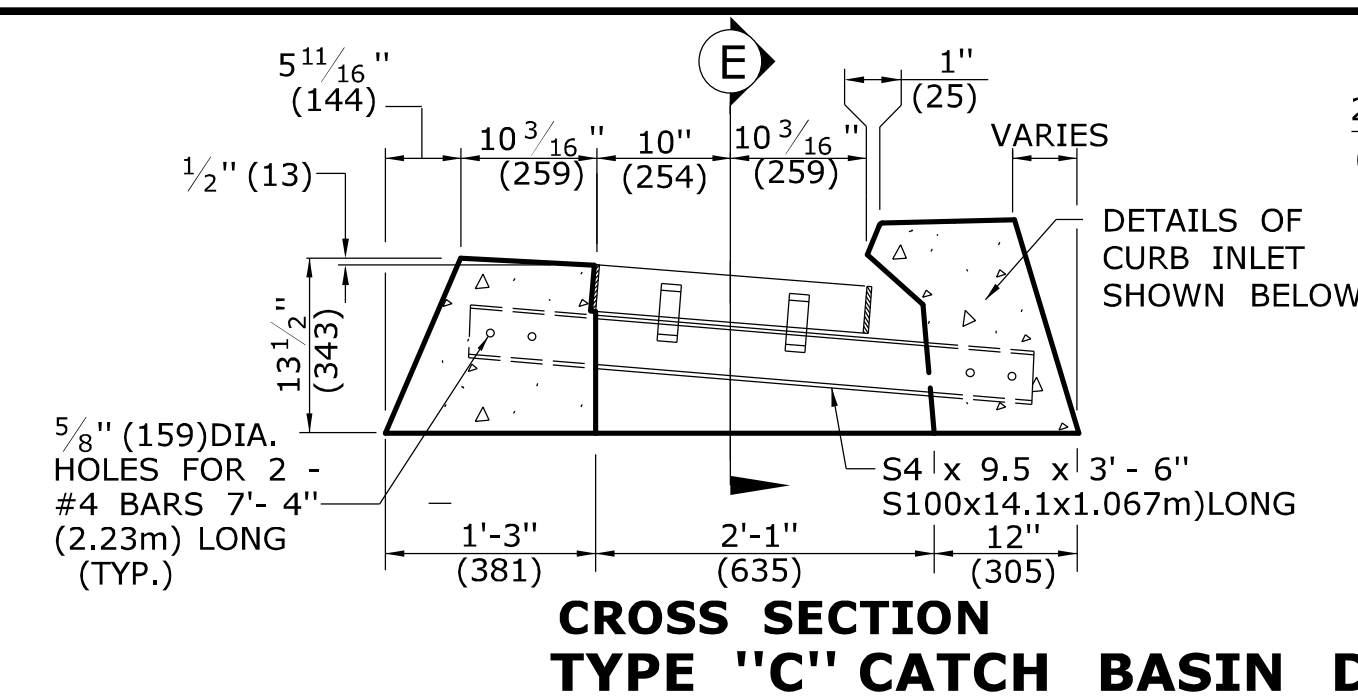
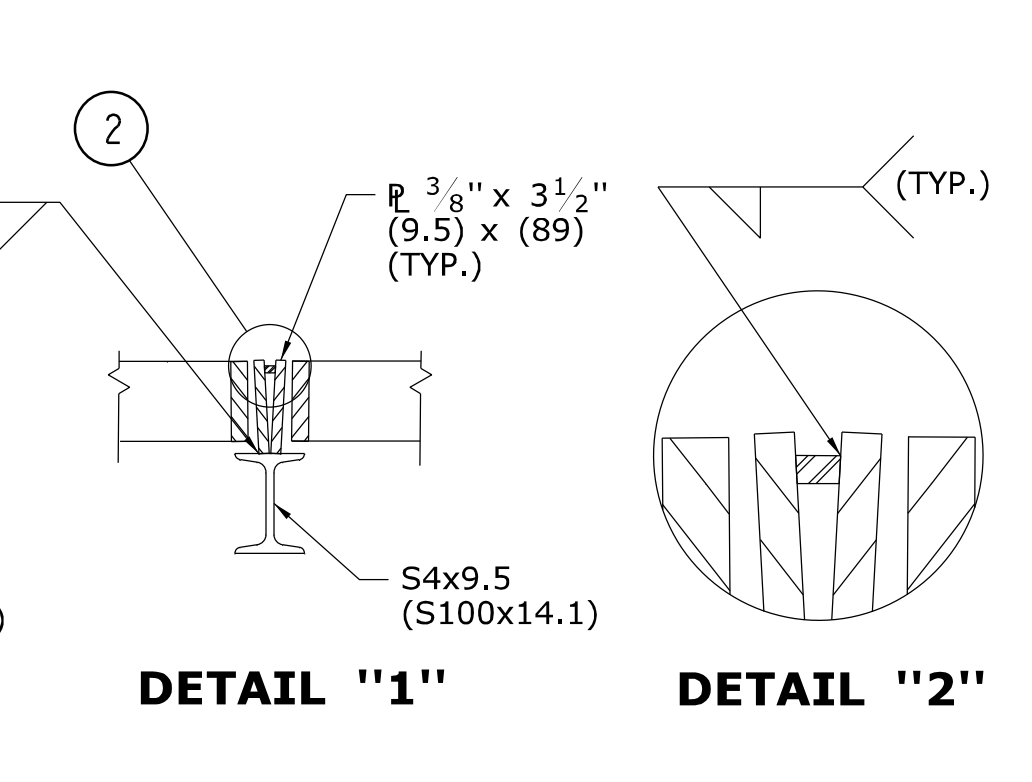
CROSS SECTION
TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE I TOP



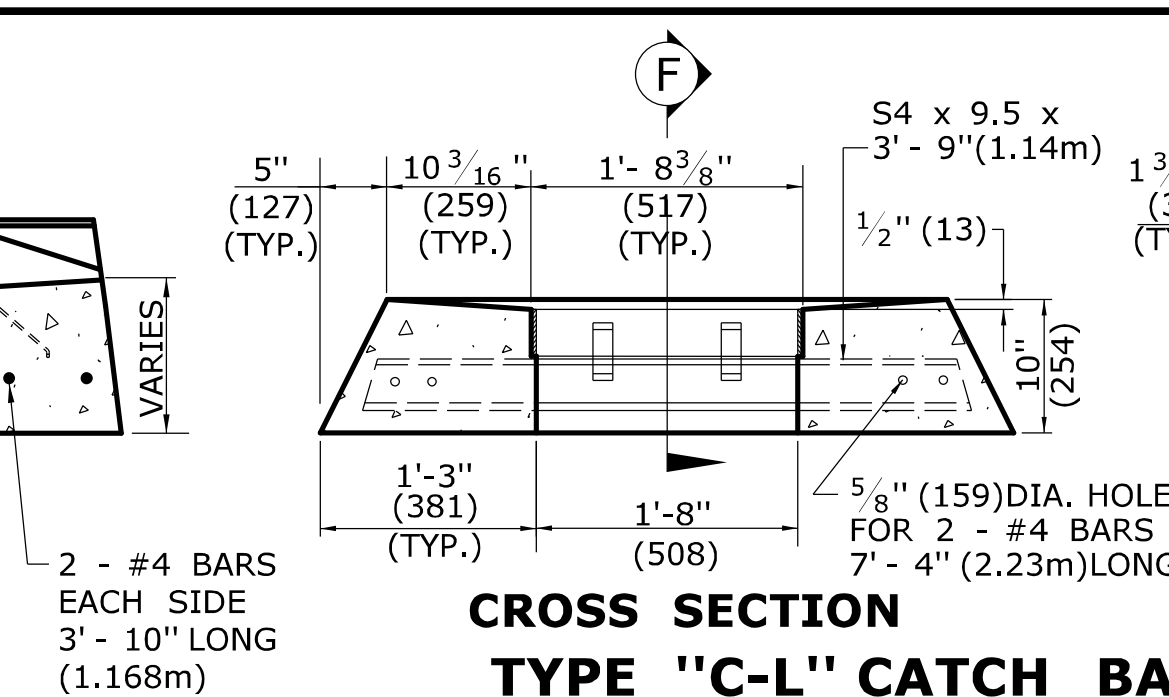
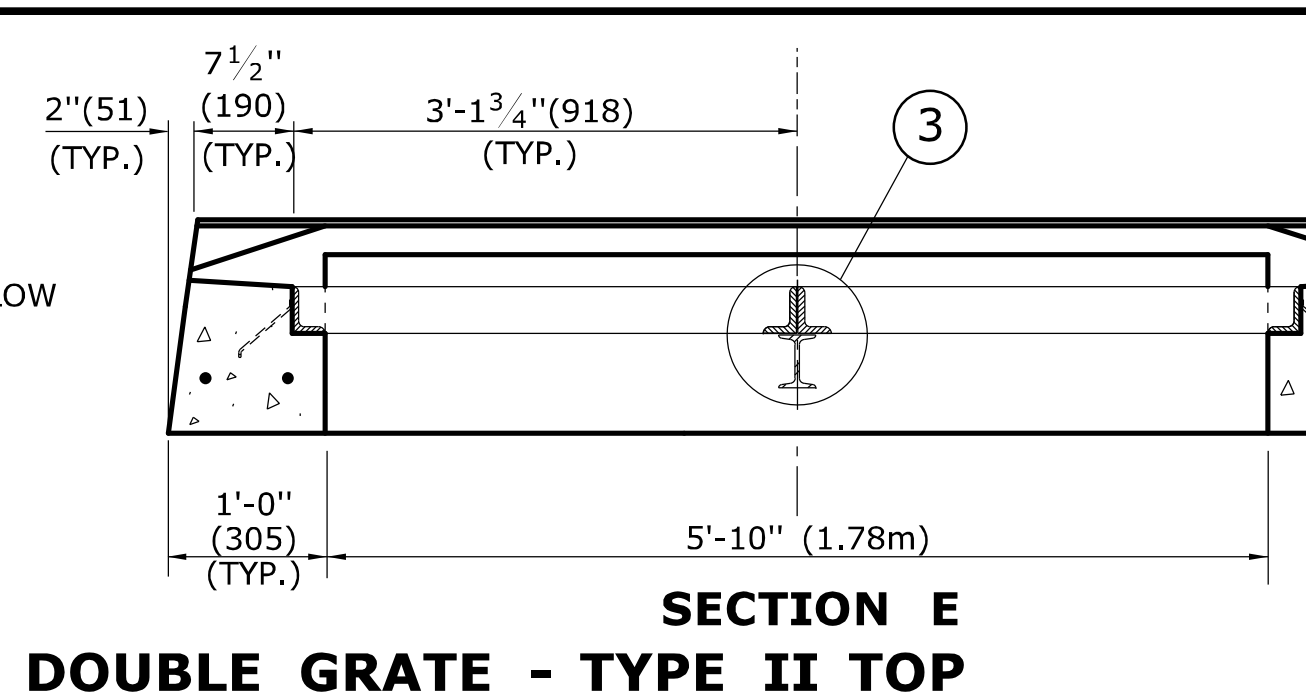
CROSS SECTION
TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE I TOP



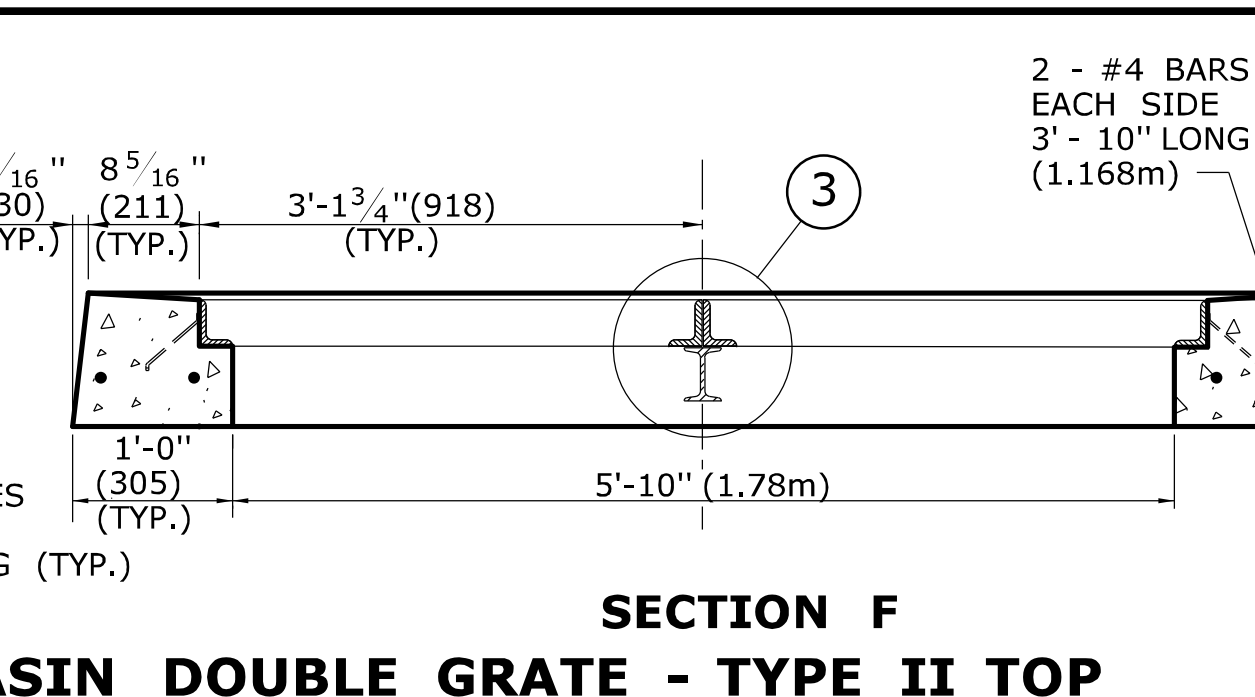
SECTION D
CROSS SECTION
TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE I TOP



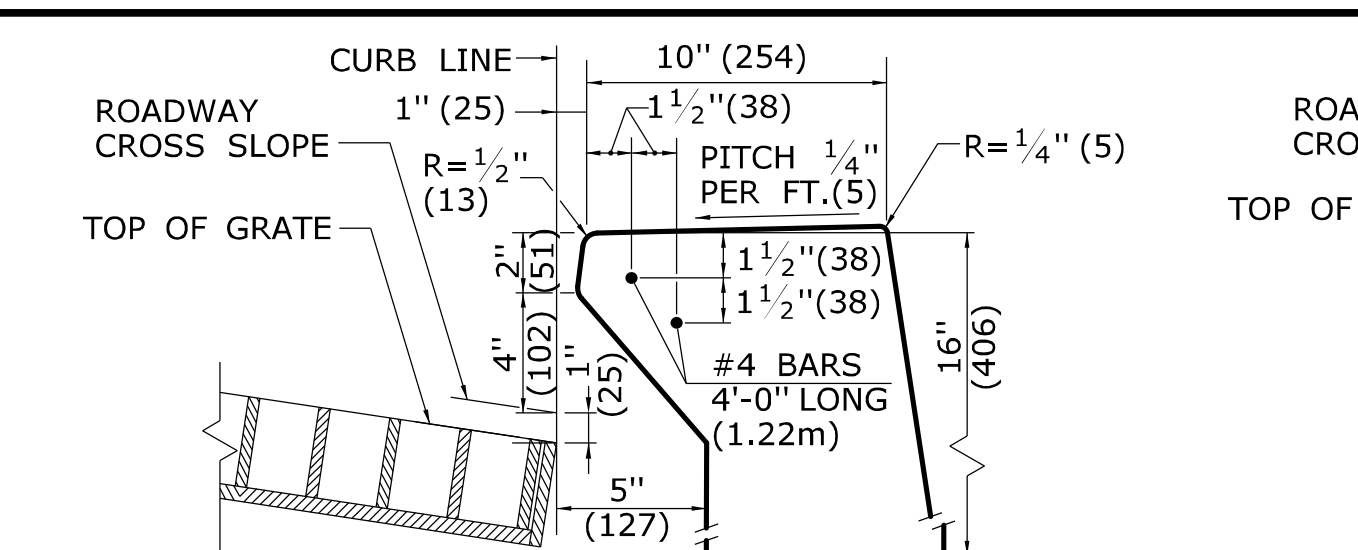
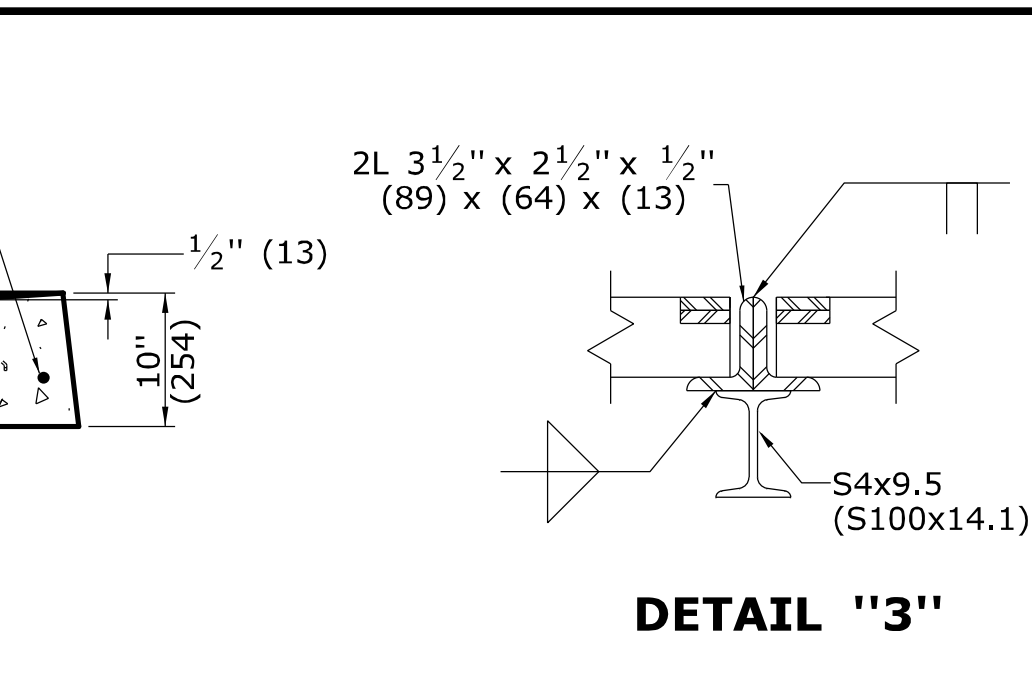
CROSS SECTION
TYPE "C" CATCH BASIN DOUBLE GRATE - TYPE II TOP



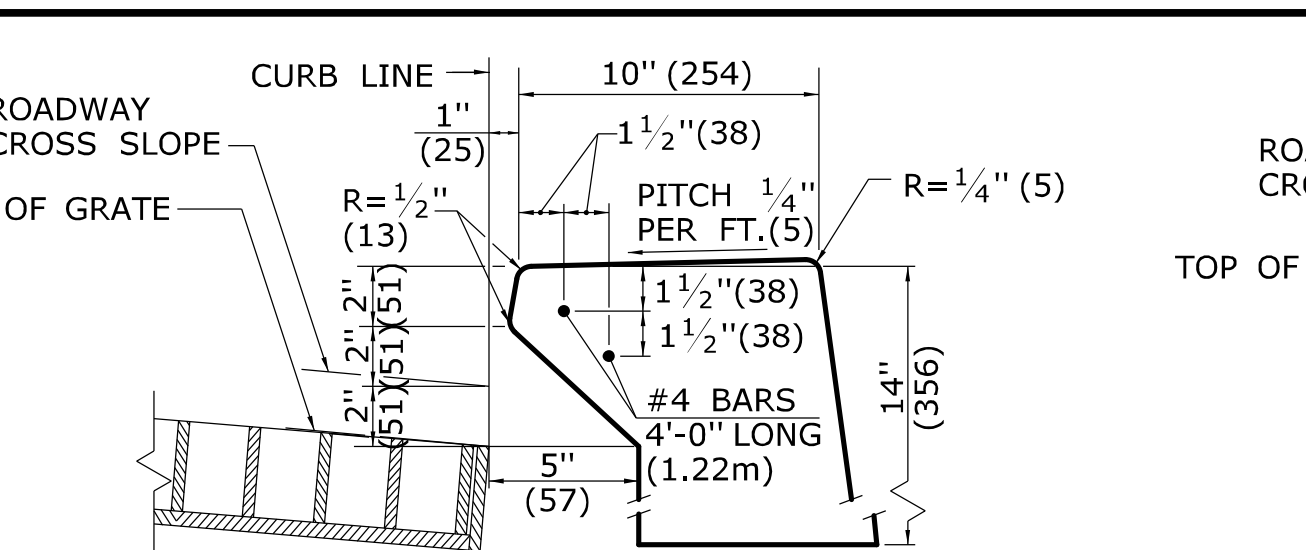
CROSS SECTION
TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II TOP



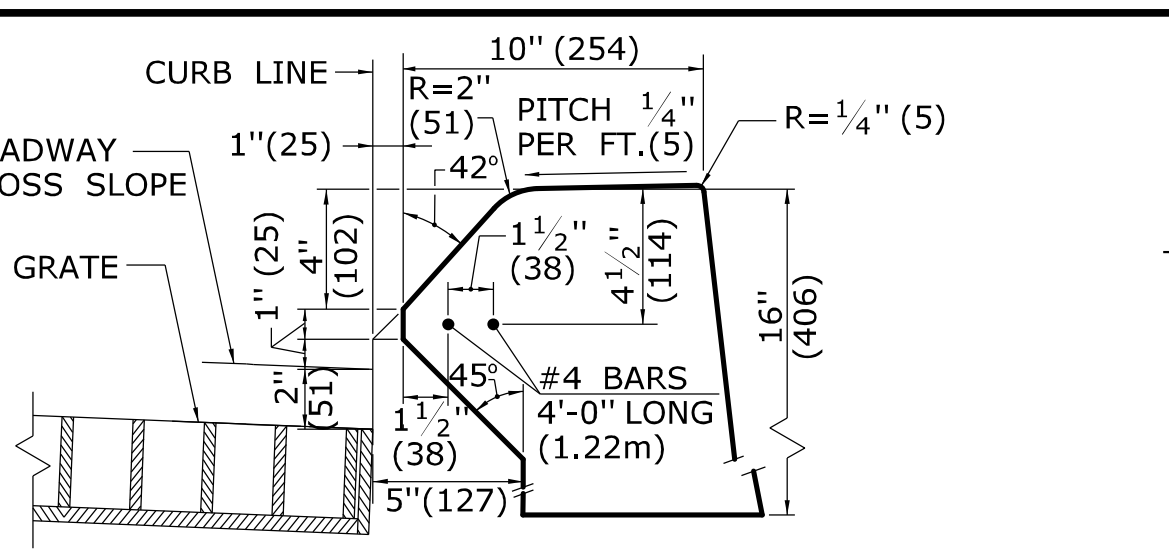
SECTION F
CROSS SECTION
TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II TOP



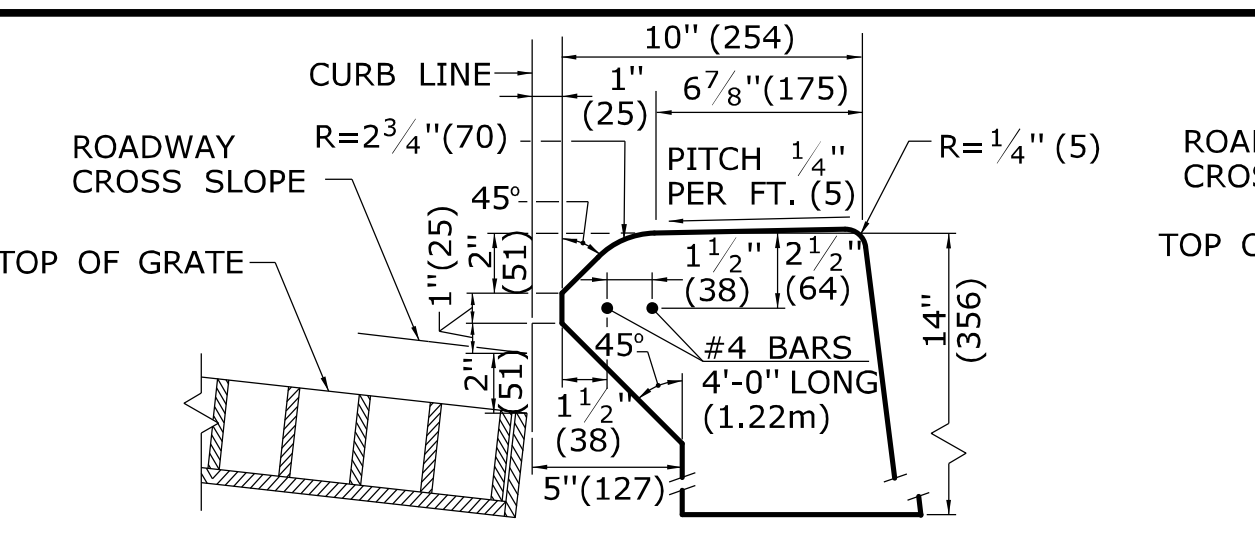
INLET WITH 6" (152) CONCRETE OR STONE CURBING FOR TYPE "C" CB



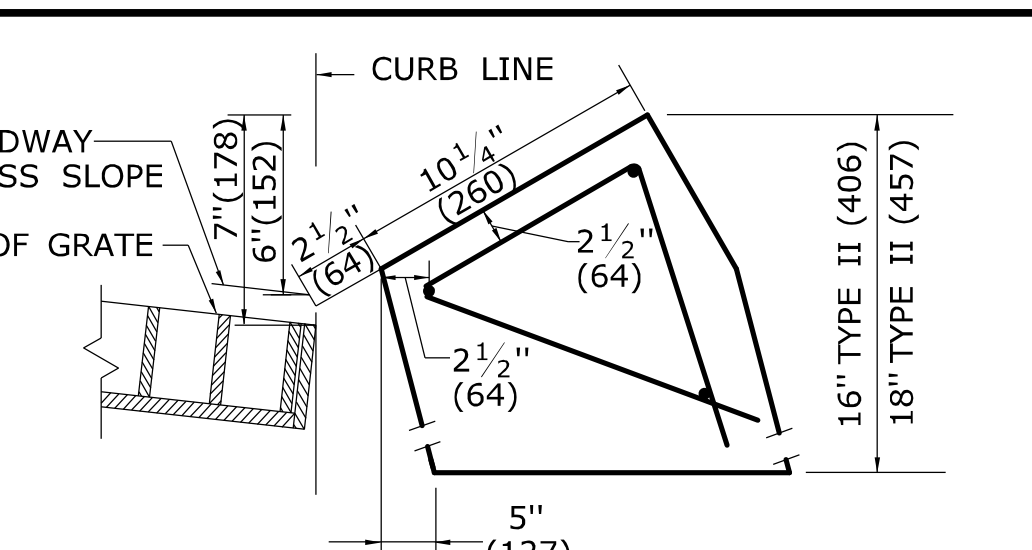
INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB



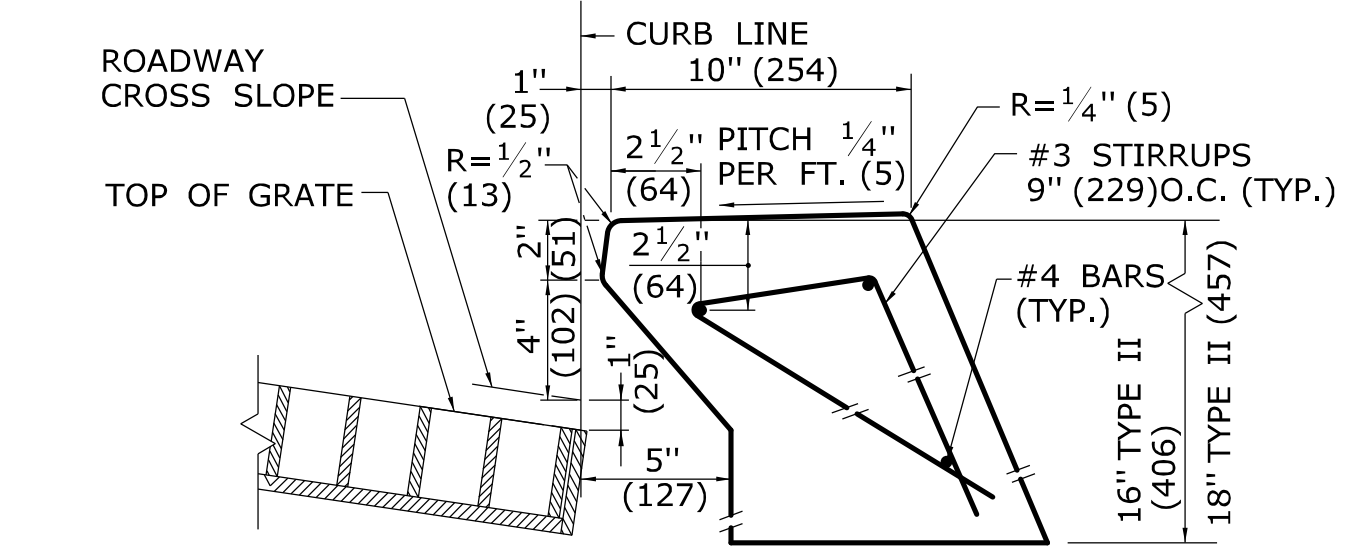
INLET WITH 6" (152) BITUMINIOUS CONCRETE LIP CURBING FOR TYPE "C" CB



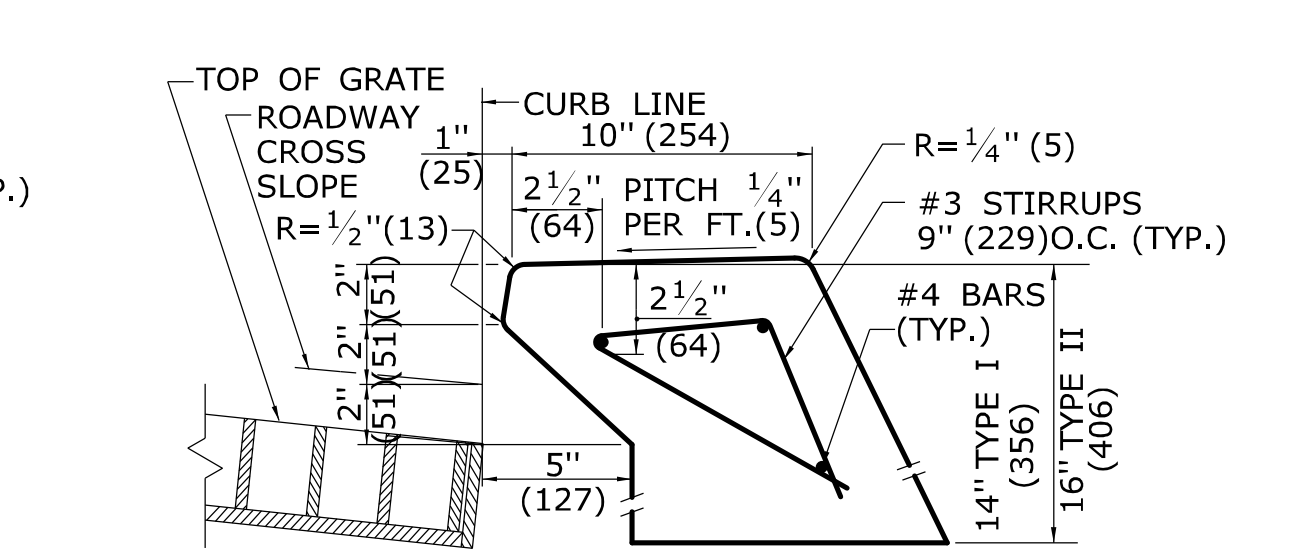
INLET WITH 4" (102) CONCRETE PARK CURBING FOR TYPE "C" CB



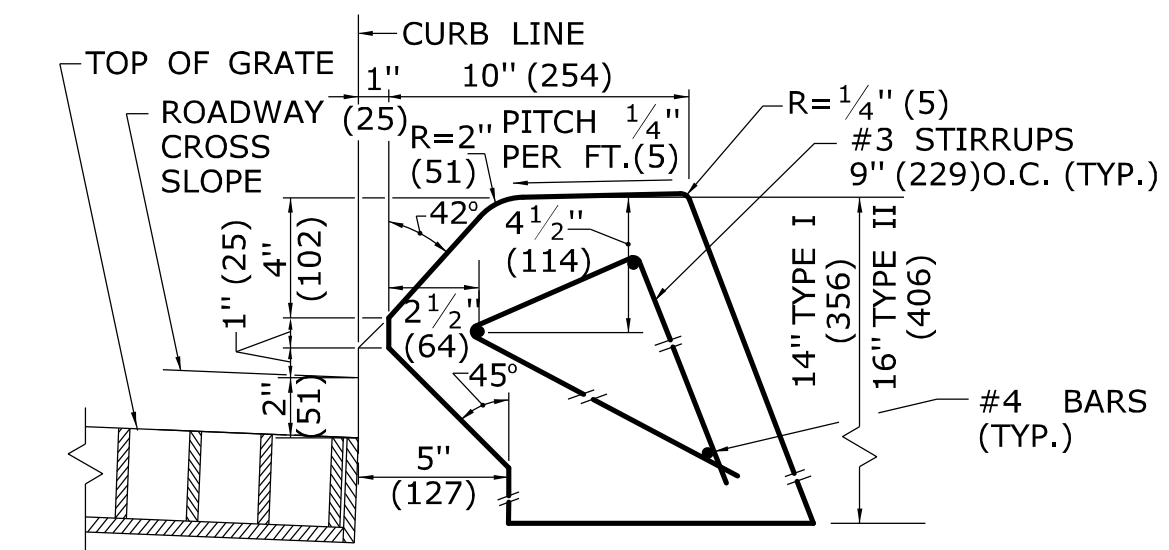
INLET WITH GRANITE SLOPE CURB FOR TYPE "C" CB



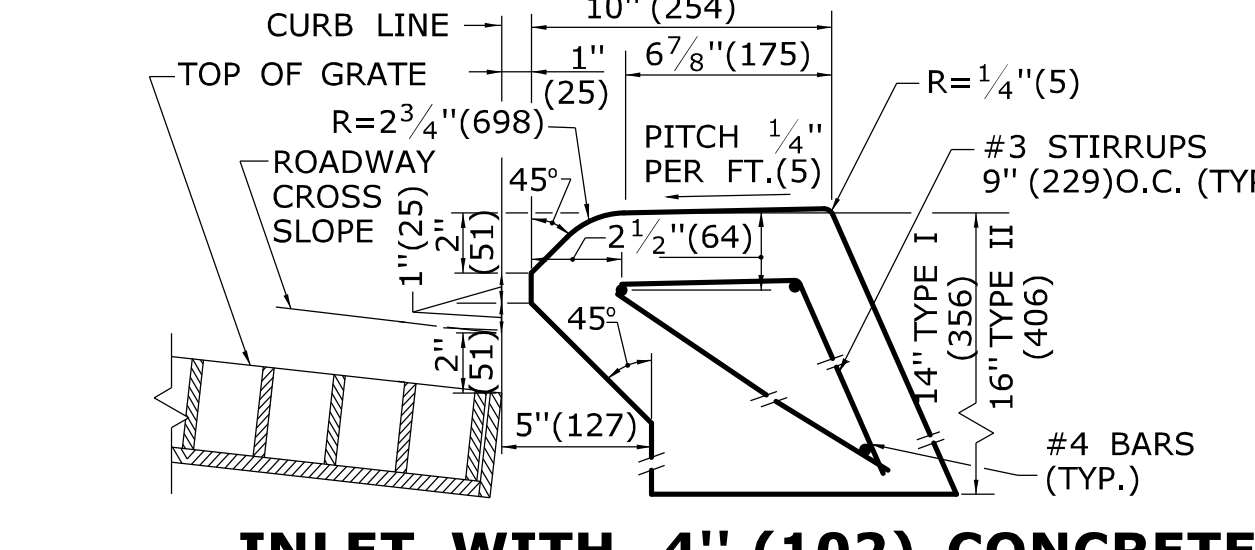
INLET WITH 6" (152) CONCRETE OR STONE CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



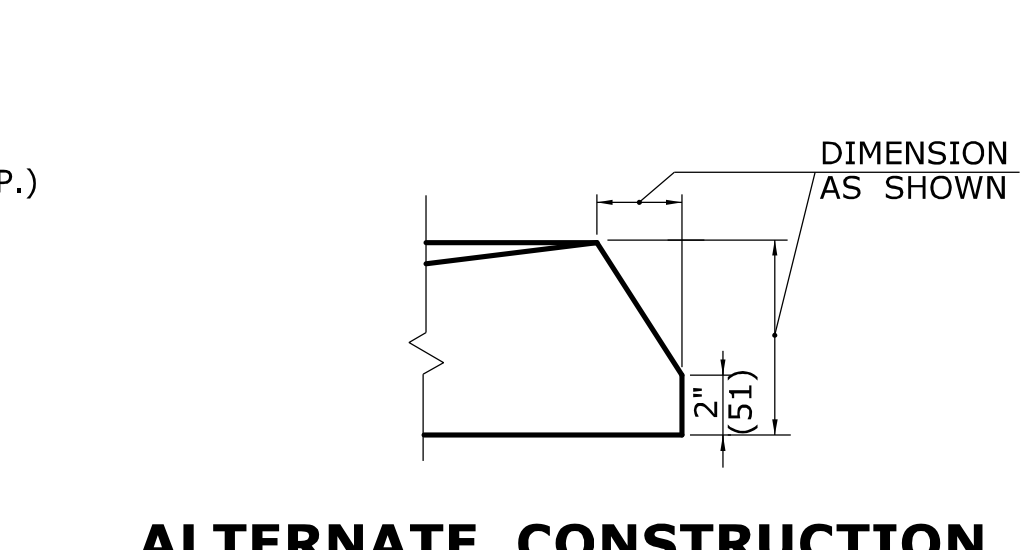
INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



INLET WITH 6" (152) BITUMINIOUS CONCRETE LIP CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



INLET WITH 4" (102) CONCRETE PARK CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



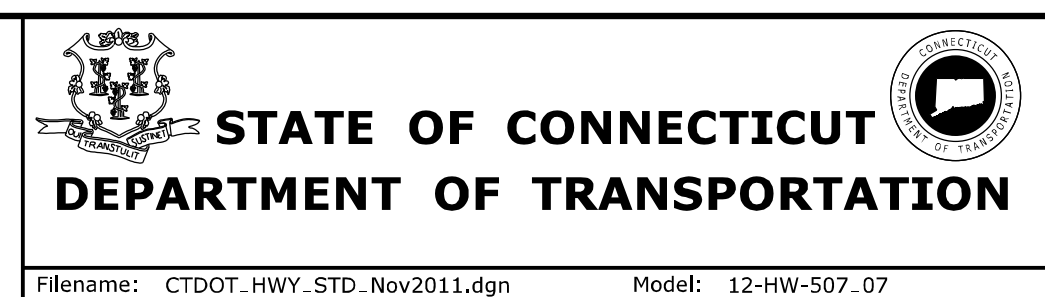
ALTERNATE CONSTRUCTION OF TYPE II TOP

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

REV.	DATE	REVISION DESCRIPTION
2	7/28/11	REMOVE MIN. DROP NOTE
1	6/01/10	REVISE CALL-OUT

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NOT TO SCALE



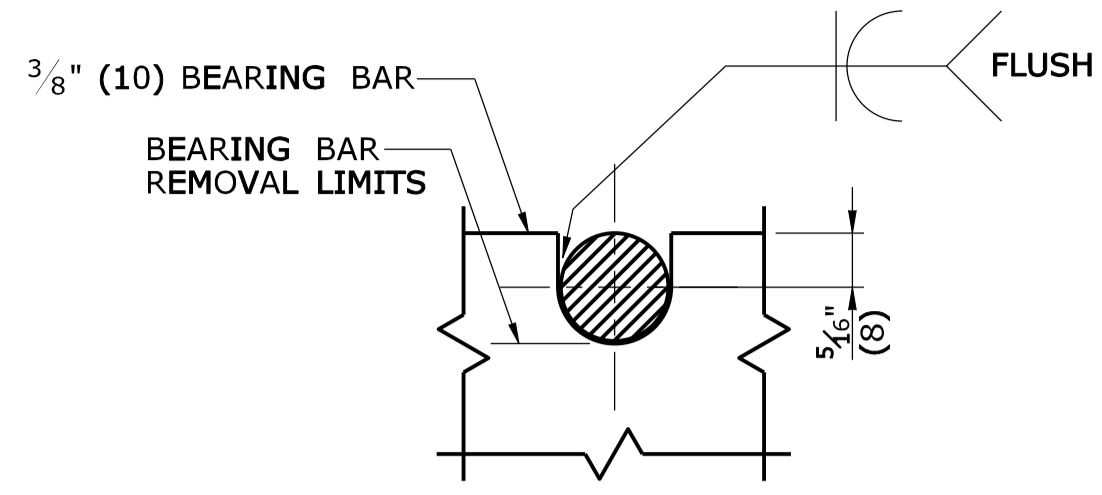
SUBMITTED BY: NAME/DATE/TIME:
Leo Fontaine
2011.11.10 10:04:01 -05'00'

APPROVED BY: NAME/DATE/TIME:
James H. Norman
2011.11.10 10:19:36 -05'00'

CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

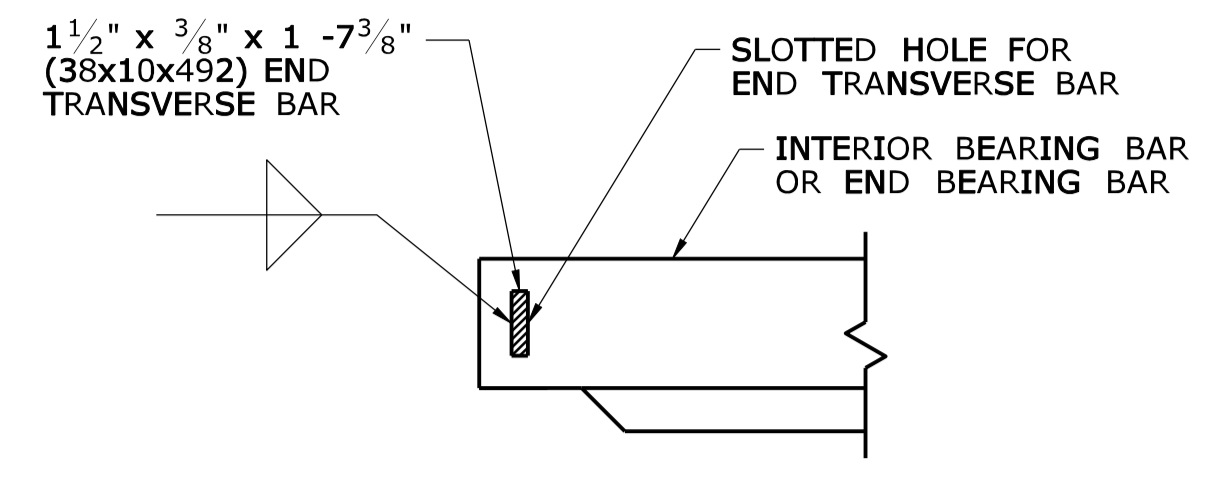
STANDARD SHEET TITLE:
TYPE "C" & "C-L" CATCH BASIN TOPS AND CURBS

STANDARD SHEET NO.:
HW-507_07

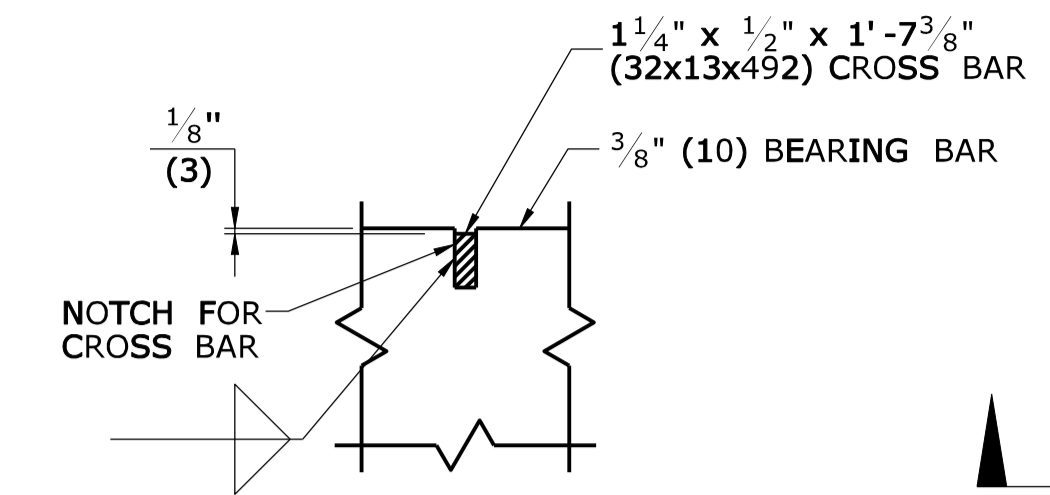


NOTE:
5/8" (16) DIA. ROUND BAR SHALL CONTACT BEARING BAR AT BOTTOM AND BE FLUSH AT TOP.

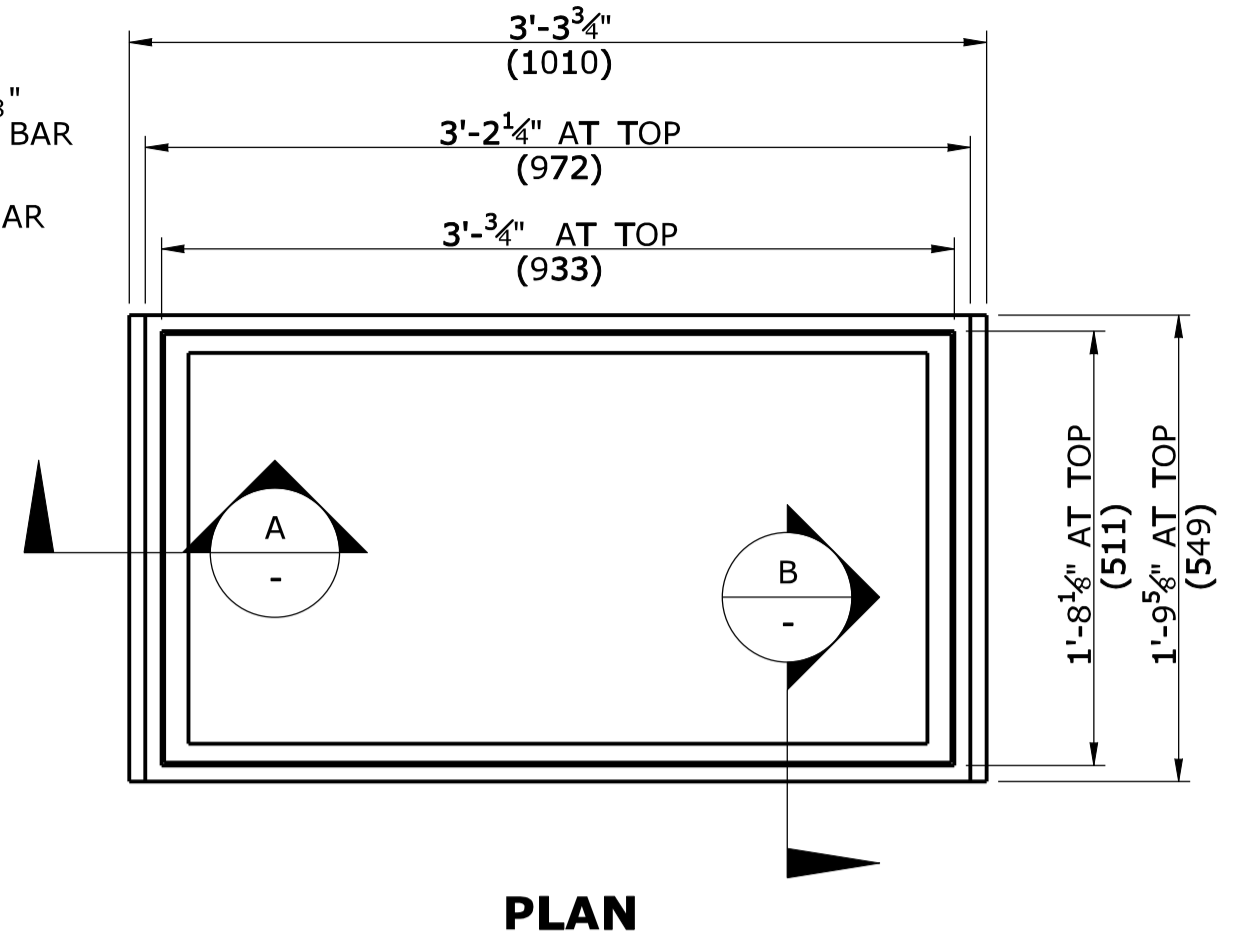
**ROUND BAR ATTACHMENT
CATCH BASIN GRATE TYPE A**



**END TRANSVERSE BAR ATTACHMENT
CATCH BASIN GRATE TYPE A & B**



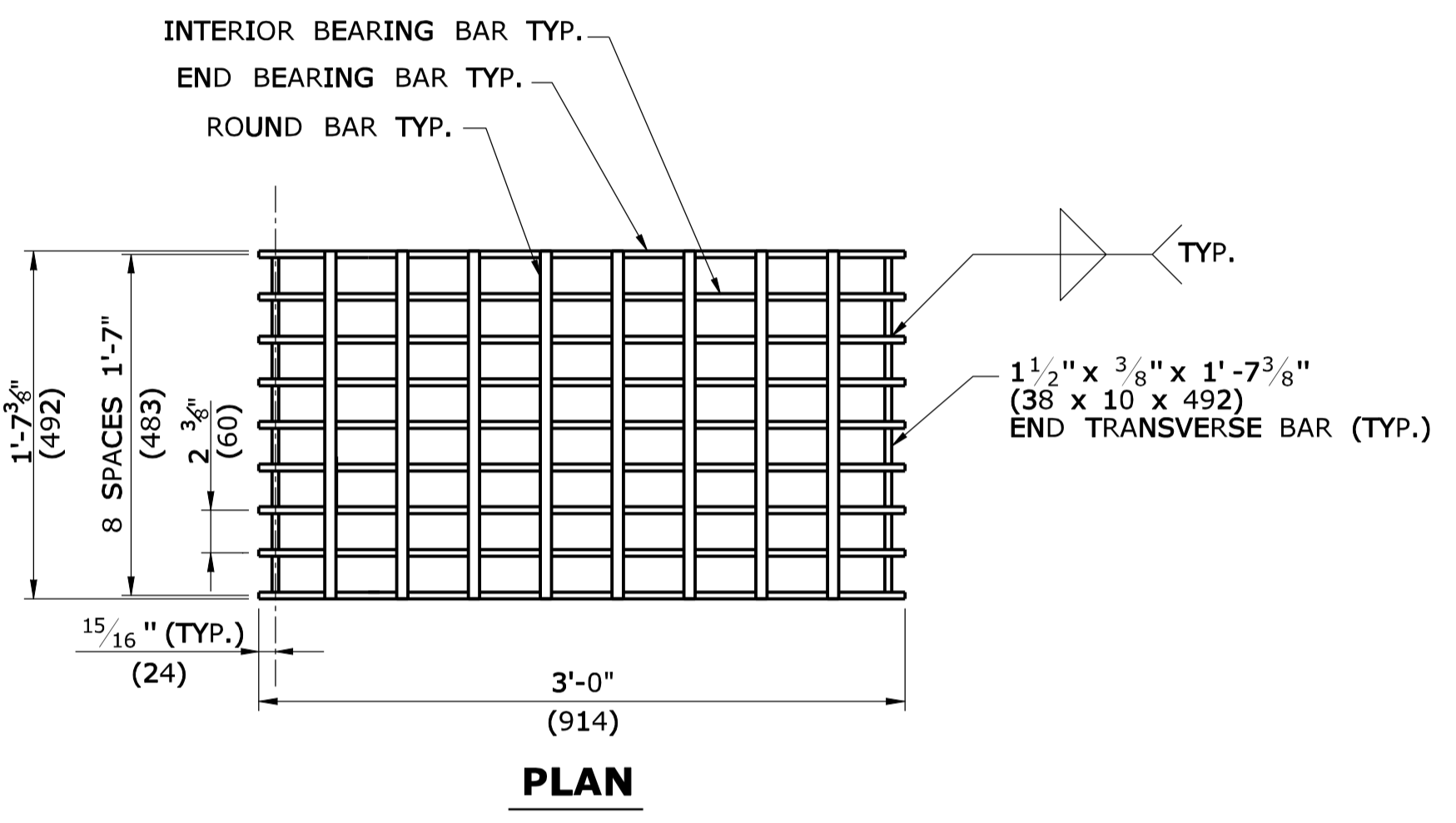
**CROSS BAR ATTACHMENT
CATCH BASIN GRATE TYPE B**



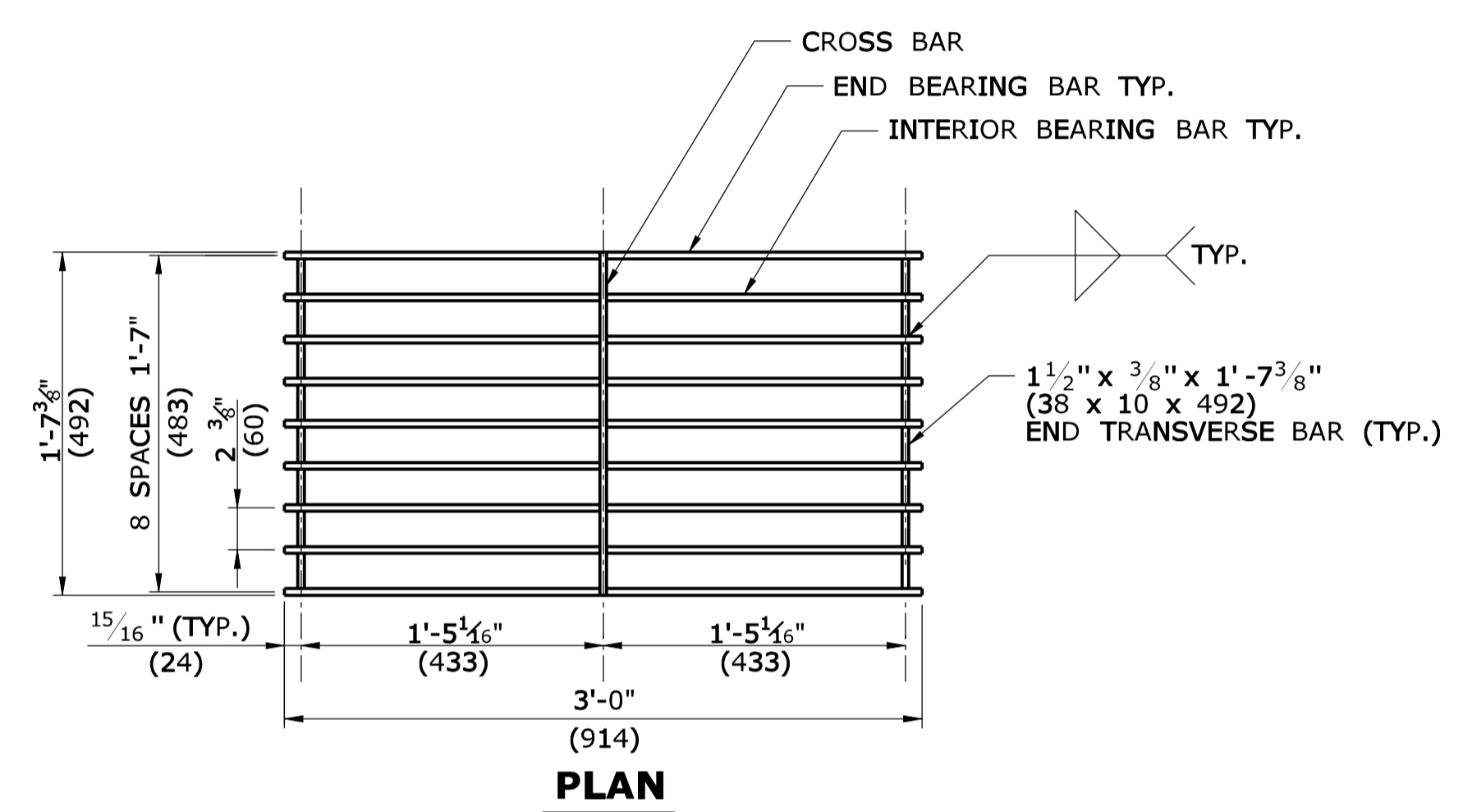
PLAN

GENERAL NOTES:

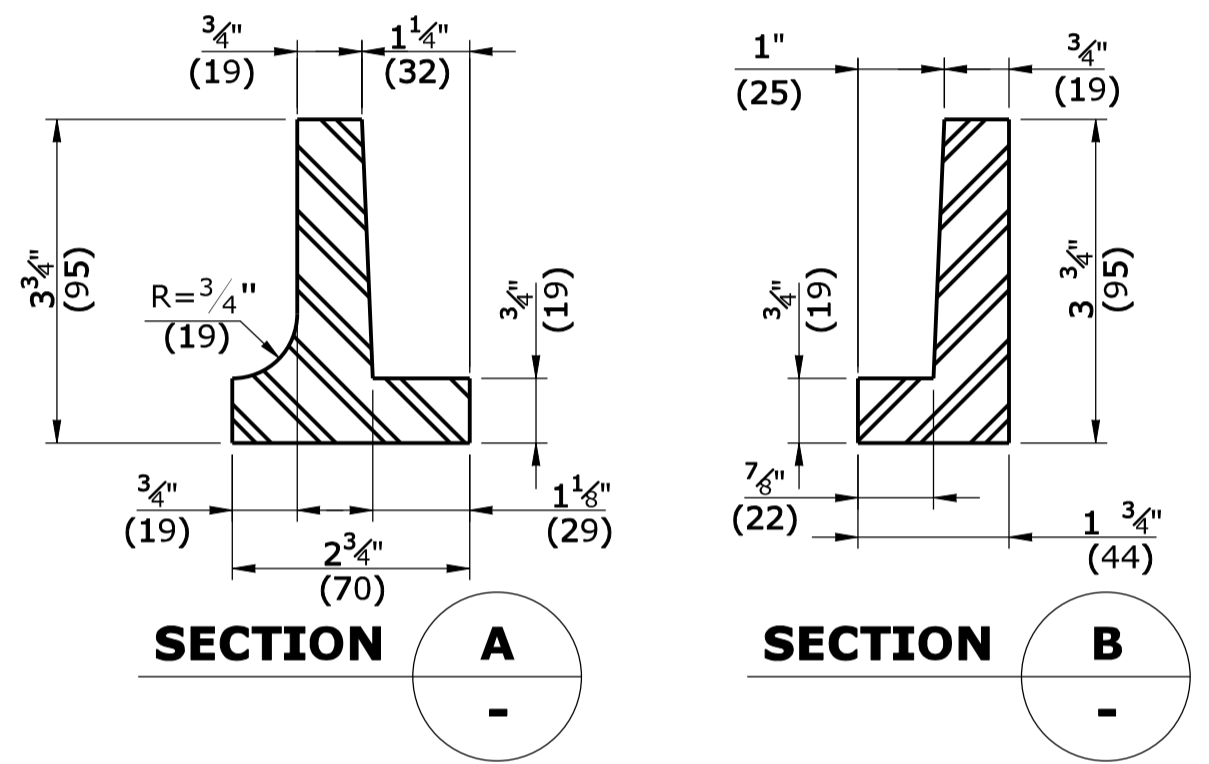
1. STEEL OR CAST IRON SHALL BE USED FOR FRAMES. STEEL SHALL BE USED FOR TYPE "A" & "B" GRATES.
2. TYPE "A" GRATES SHALL BE USED ON ALL ROADWAYS WHERE BICYCLE TRAFFIC IS ALLOWED OR AS DIRECTED BY THE ENGINEER.
3. TYPE "B" GRATES SHALL BE USED ON ALL LIMITED ACCESS HIGHWAYS, RAMP AND WHERE BICYCLE TRAFFIC IS NOT ALLOWED OR AS DIRECTED BY THE ENGINEER.
4. STEEL FRAMES AND GRATES SHALL BE GALVANIZED IN ACCORDANCE WITH ARTICLE M.06.03.
5. DO NOT GALVANIZE CAST IRON FRAMES.
6. DIMENSIONAL TOLERANCES SHALL BE $\pm 1/16"$ (1.6)
7. ALL STEEL BARS SHALL BE WELDED AT ALL INTERSECTIONS.
8. ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS STRUCTURAL WELDING CODE, D1.1.



PLAN



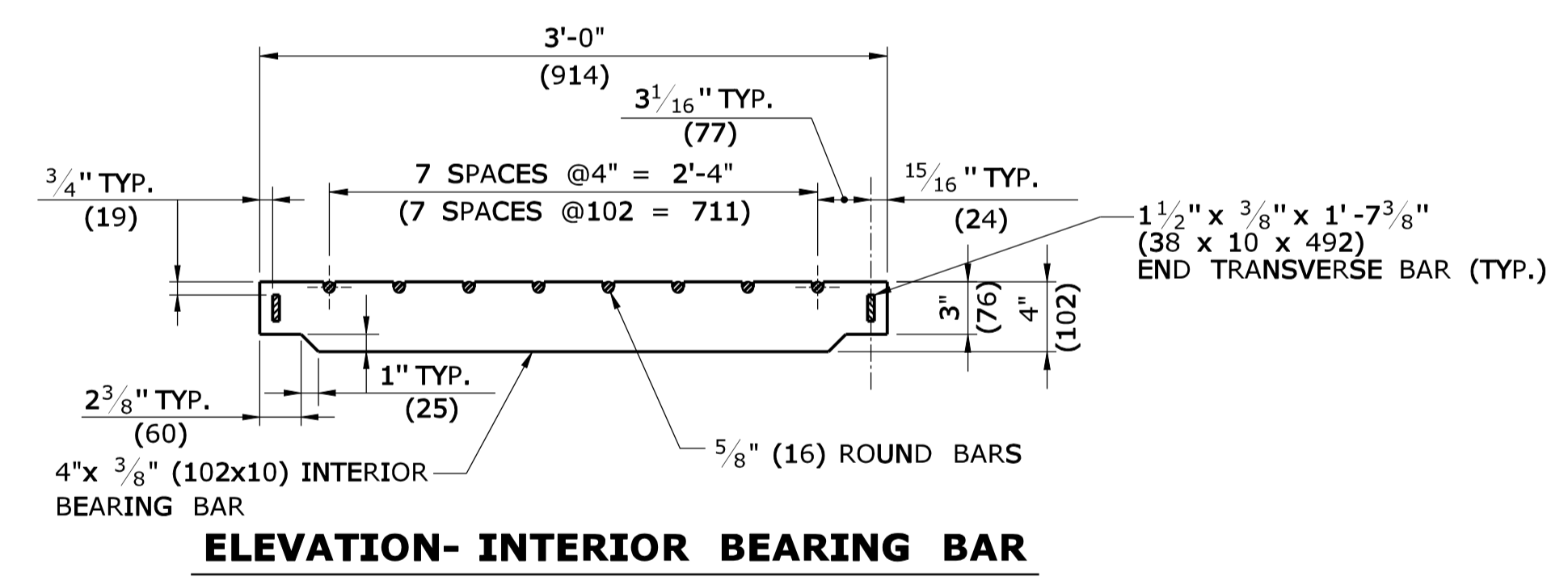
PLAN



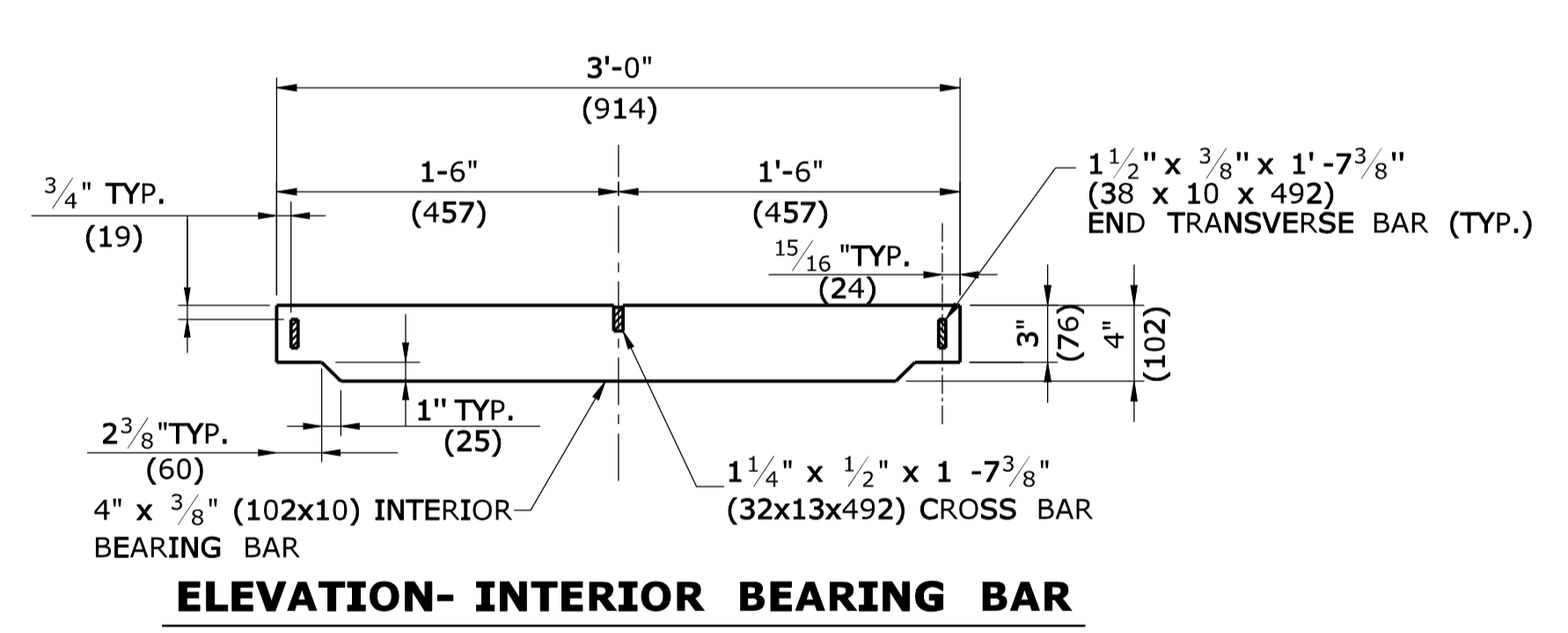
SECTION A

SECTION B

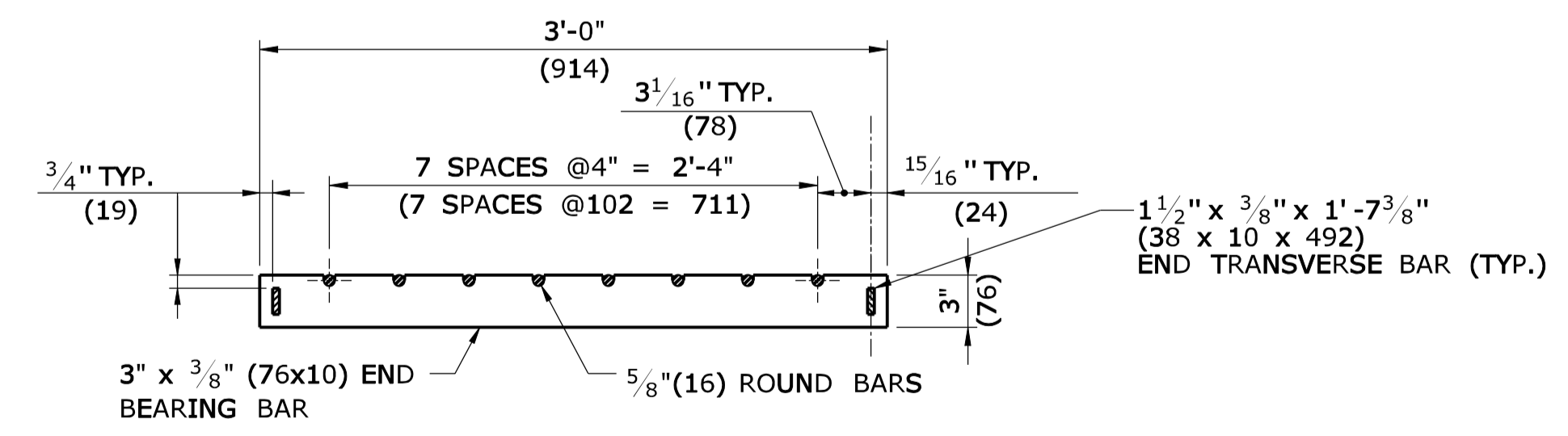
CAST IRON FRAME ALTERNATE



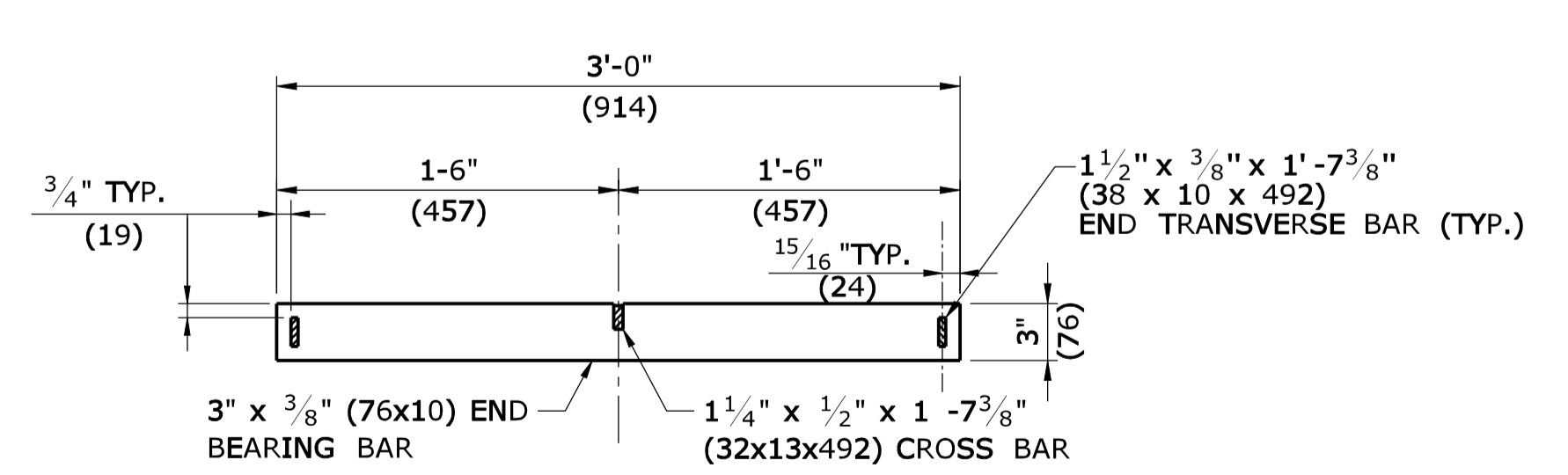
**ELEVATION- INTERIOR BEARING BAR
CATCH BASIN GRATE TYPE A**



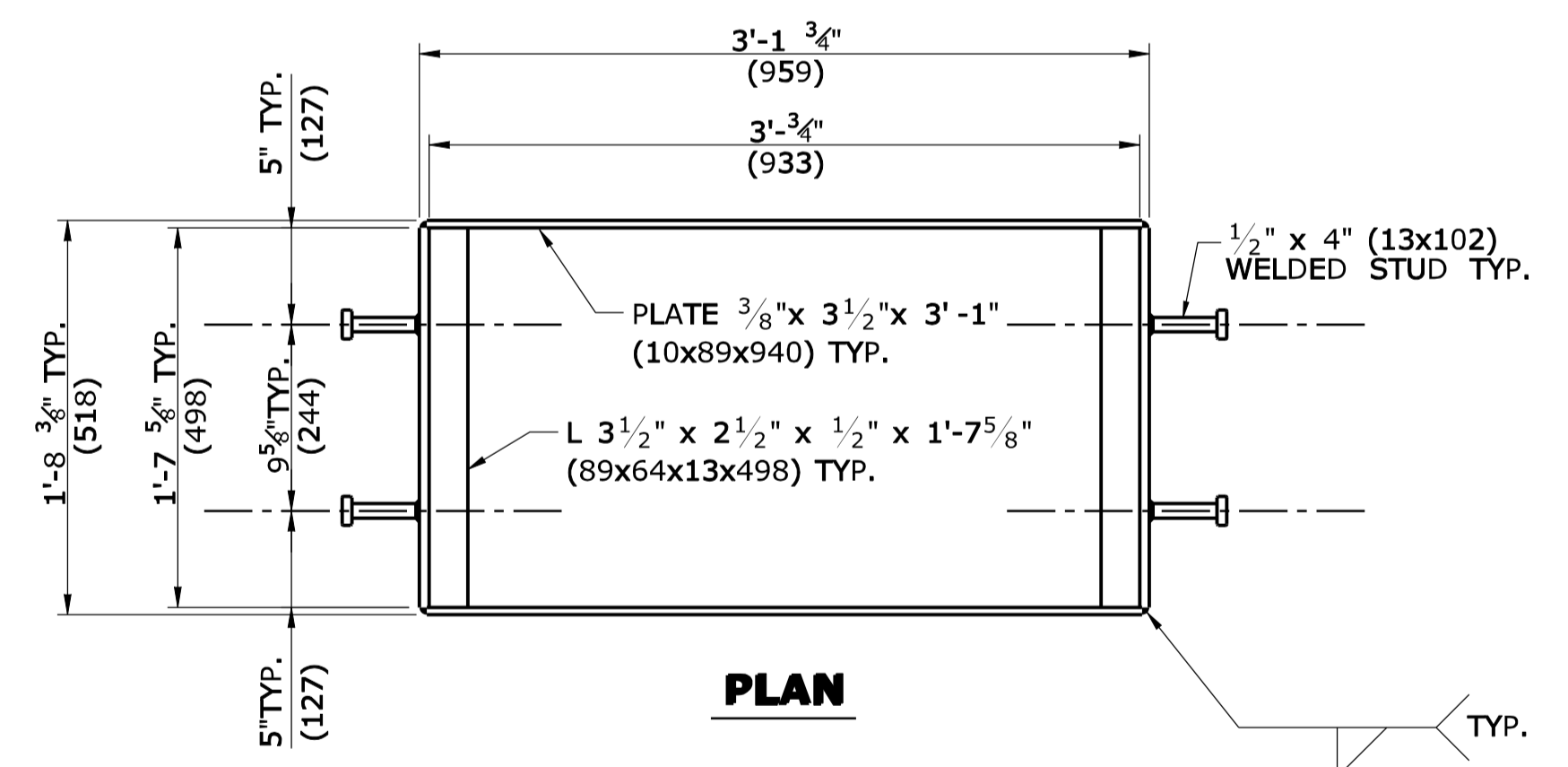
**ELEVATION- INTERIOR BEARING BAR
CATCH BASIN GRATE TYPE B**



**ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE A**



**ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE B**



PLAN

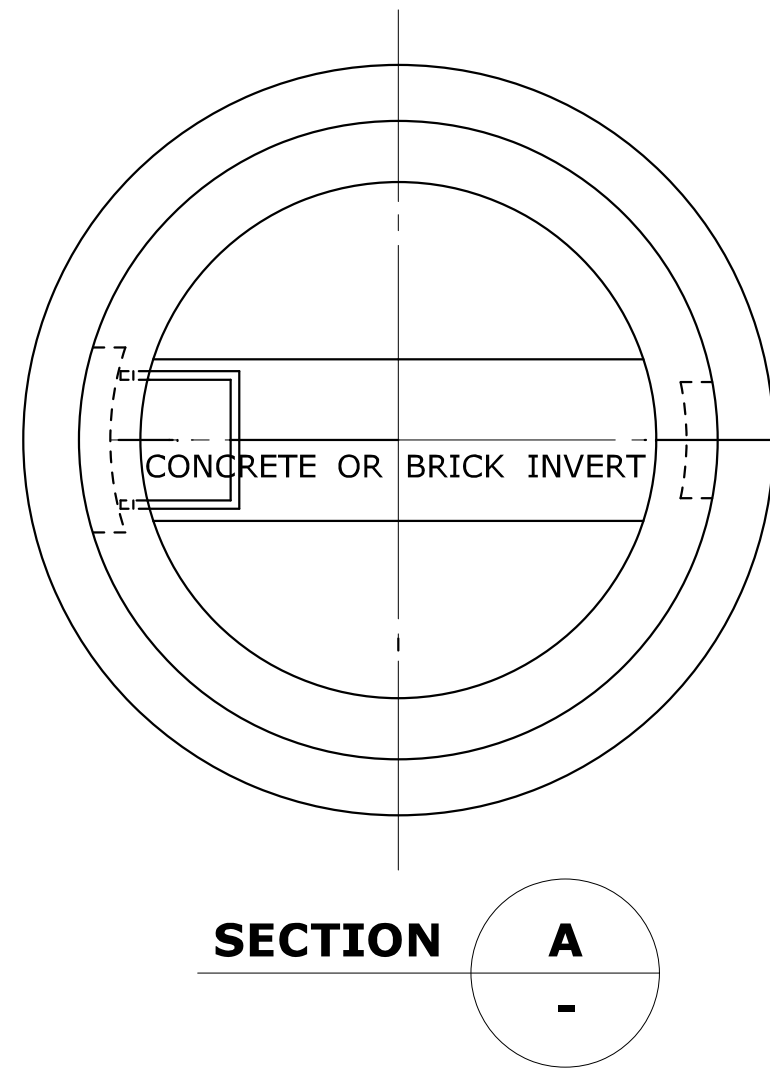
**WELDED STUD ANCHOR DETAILS
STEEL FRAME**

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

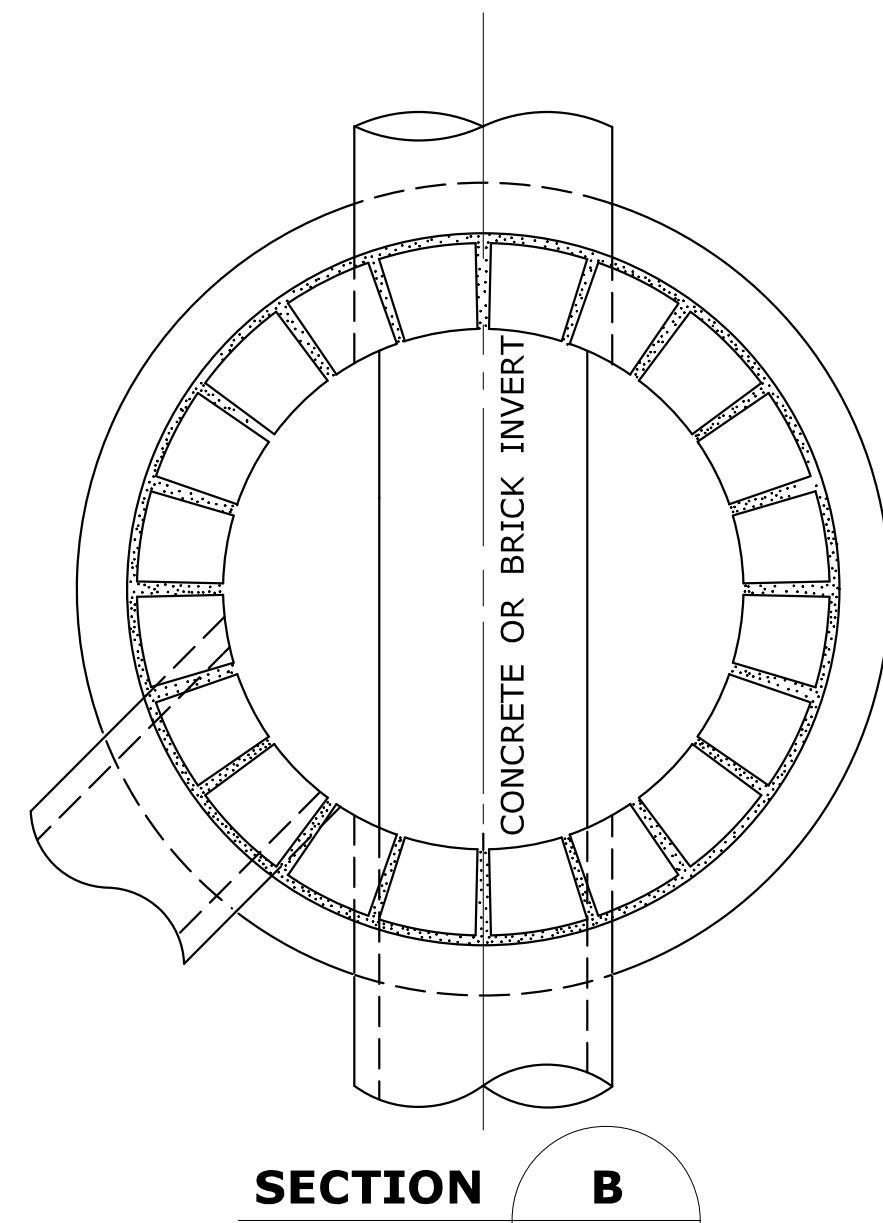
THE INFORMATION INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		NOT TO SCALE				SUBMITTED BY: Timothy M. Wilson 2009.09.16 11:16:32 -04'00' APPROVED BY: James H. Norman 2009.09.18 14:22:33 -04'00'		CTDOT STANDARD SHEET OFFICE OF ENGINEERING		STANDARD SHEET TITLE: CATCH BASIN FRAMES AND GRATES STANDARD SHEET NO.: HW-507_08	
REV.	DATE	REVISION DESCRIPTION		Plotted Date: 9/11/2009		Filename: CTDOT_HIGHWAY STD.dgn		Model: HW-507_08			

GENERAL NOTES:

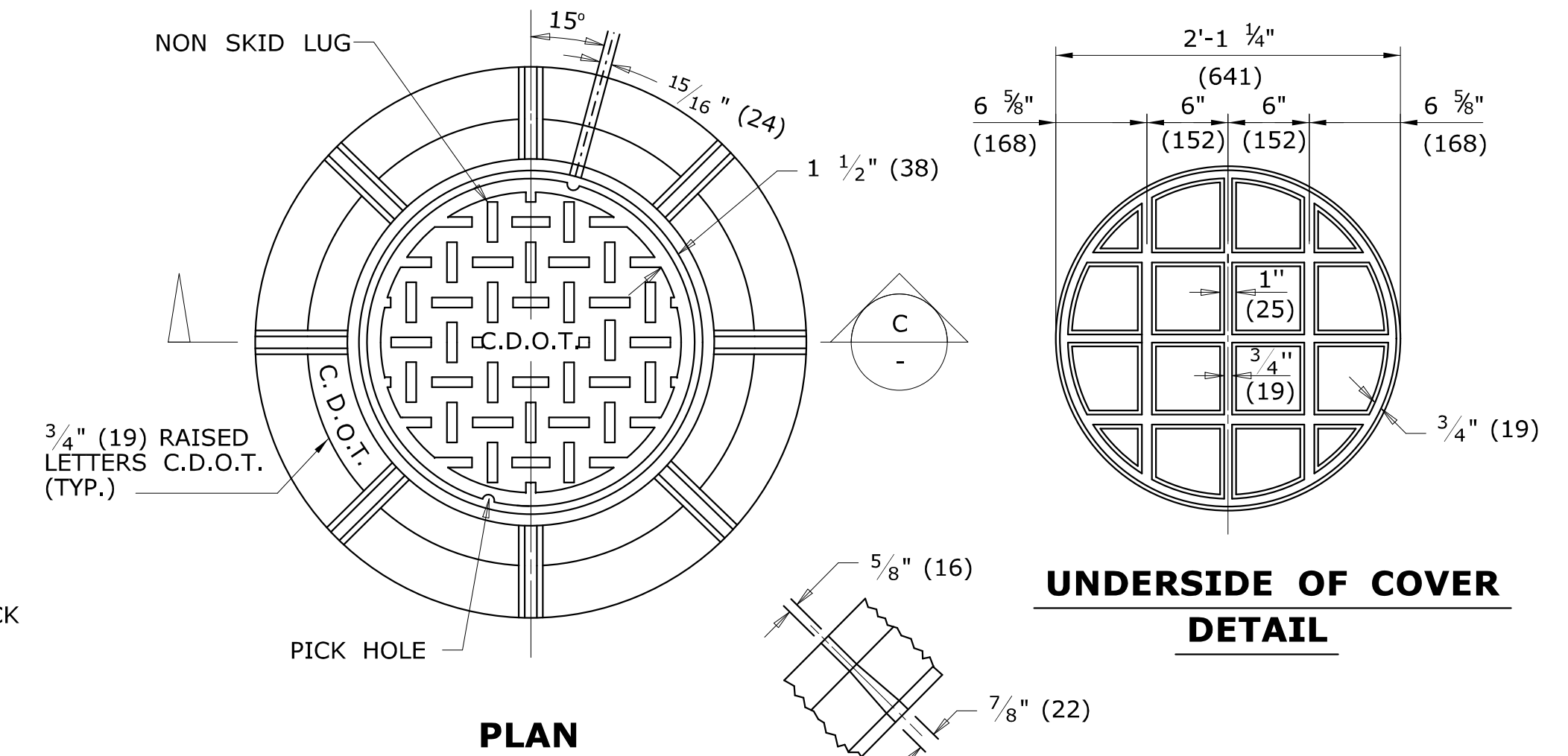
1. CHANNELS MAY BE SHAPED IN CONCRETE BASE OF MANHOLE OR FORMED USING BRICK OR MASONRY.
2. A FRAME DIAMETER OF 3'-3" (991) WITH 4" (102) FLANGE MUST BE USED WHEN THE TOP DIAMETER OF THE PRECAST CONE IS LESS THAN 3'-6" (1067). ALL OTHER FRAME DIMENSIONS SHALL REMAIN THE SAME.
3. COVER: CAST IRON STEEL
MIN. COVER WEIGHT 134LB.(61kg) 134LB.(61kg)
4. ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.



SECTION A

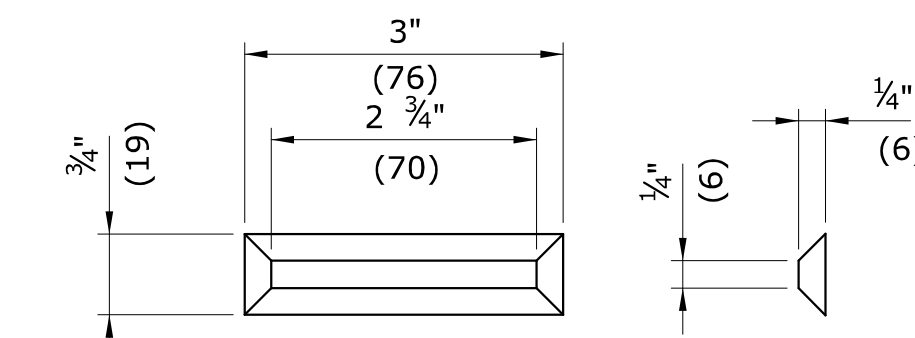


SECTION B

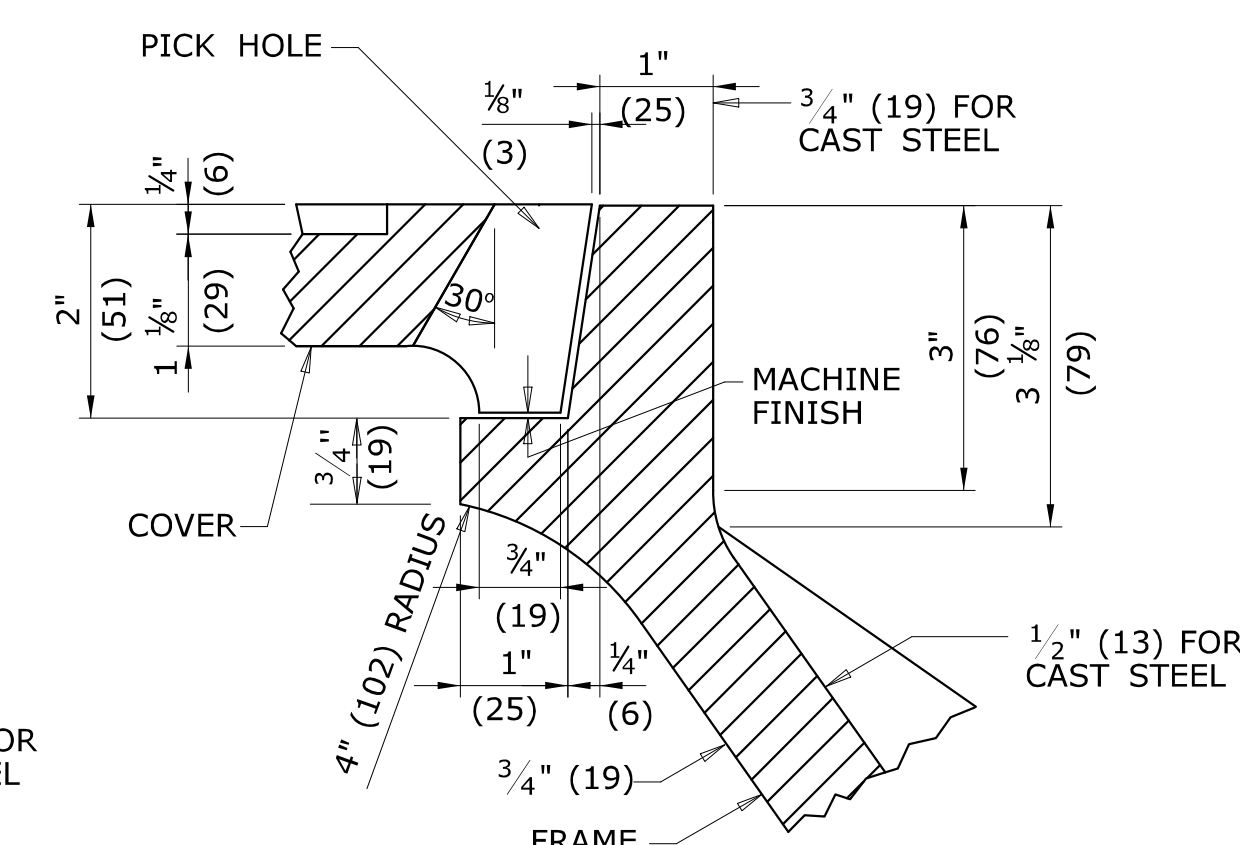


PLAN

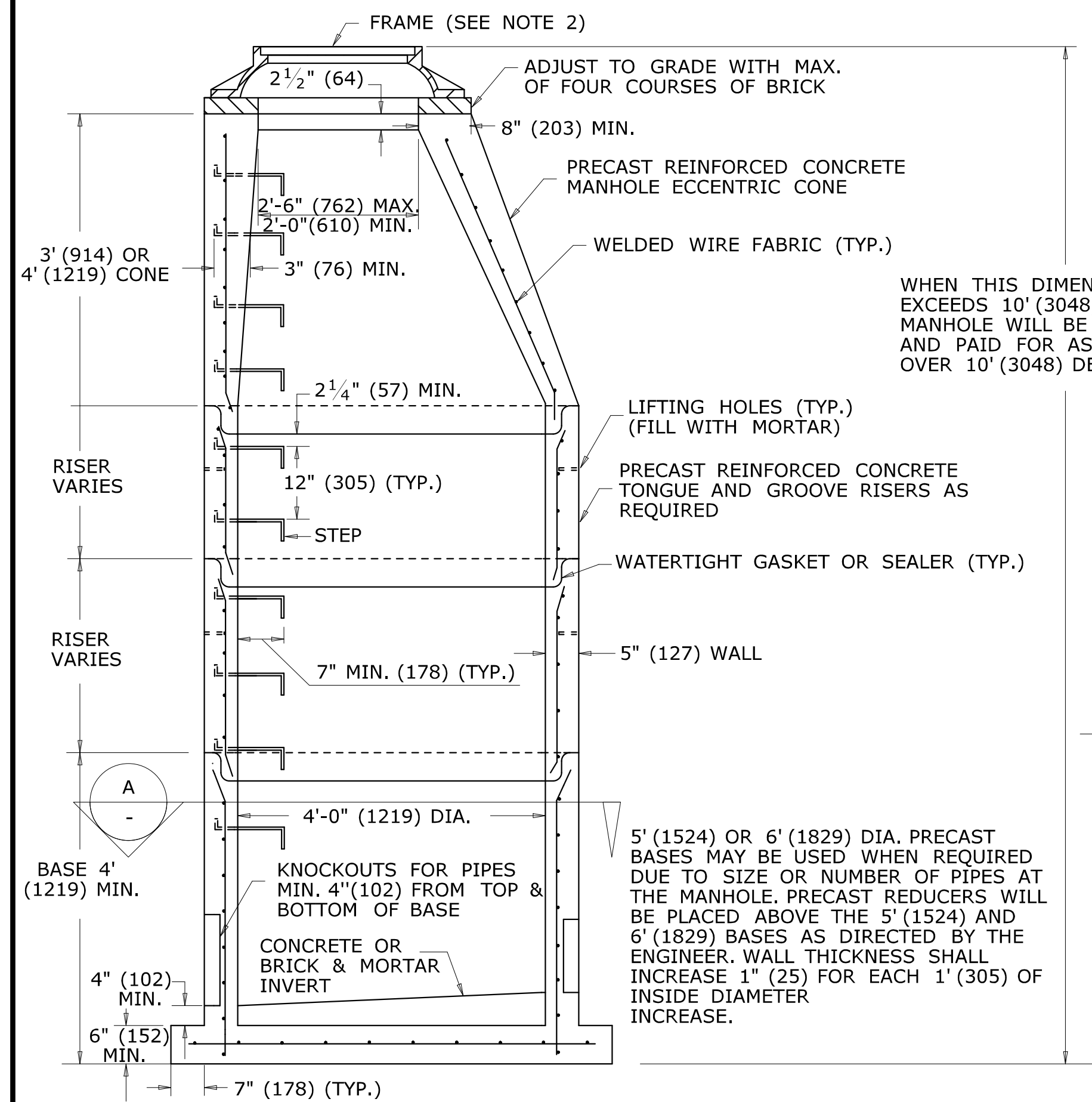
**UNDERSIDE OF COVER
DETAIL**



**NON SKID LUG
DETAIL**



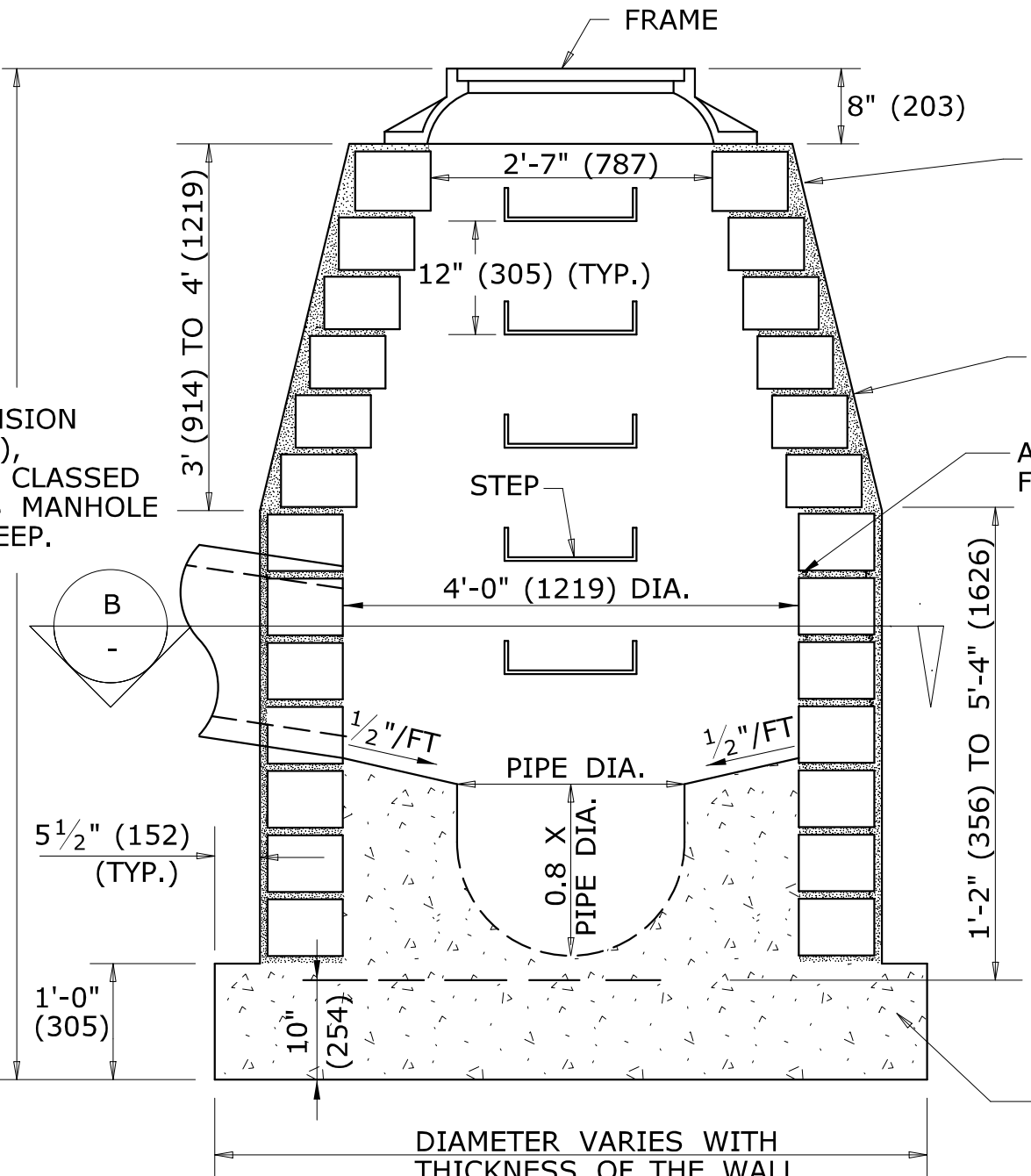
DETAIL OF SEAT



ELEVATION

MANHOLE

REINFORCED PRECAST CONCRETE UNIT



ELEVATION

MANHOLE

MASONRY CONCRETE UNIT OR CLASS "A" CONCRETE

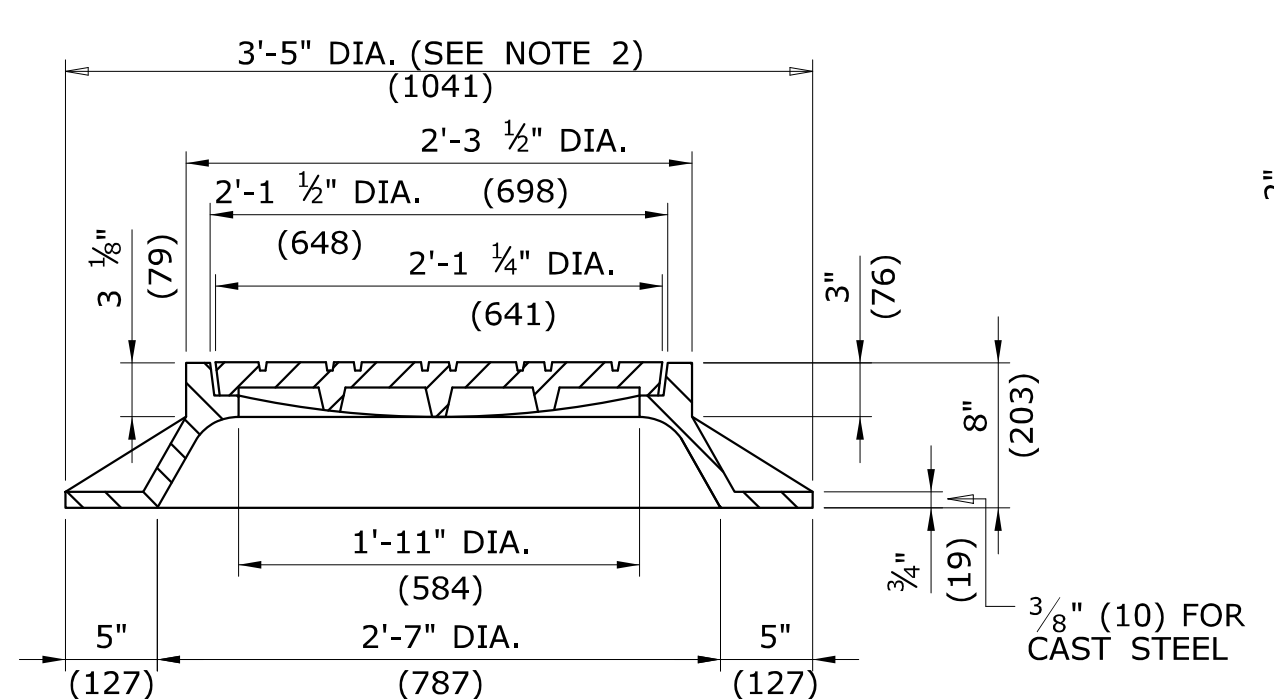
WALL SHALL BE A MIN. OF 6"(152) WITH MASONRY CONCRETE UNITS, CLASS "A" CONCRETE WALL SHALL BE 12"(300) THICK WHEN DEPTH OF MANHOLE IS GREATER THAN 10'(3048) DEEP.

MASONRY WALLS SHALL BE PLASTERED OUTSIDE WITH 2:1 CEMENT MORTAR 1/2"(13) THICK. MASONRY MUST BE WET WHEN MORTAR IS APPLIED.

ALL JOINTS SHALL BE POINTED FLUSH AND FULL

WALLS SHALL BE BUILT OF MASONRY CONCRETE UNITS OR CLASS "A" CONCRETE AT THE OPTION OF THE CONTRACTOR.

MASONRY CONCRETE UNITS SHALL BE LAID IN CEMENT SAND MORTAR 1:2 MIX, JOINTS SHALL NOT BE OVER 1/2"(13) ON INSIDE FACE



SECTION C

FRAME AND COVER DETAILS

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

1	6/11	REVISE STEP WIDTH PER OSHA
2	7/13	REVISE COVER FRAME WEIGHT
-	-	-
-	-	-
-	-	-
-	-	-
REV.	DATE	REVISION DESCRIPTION

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

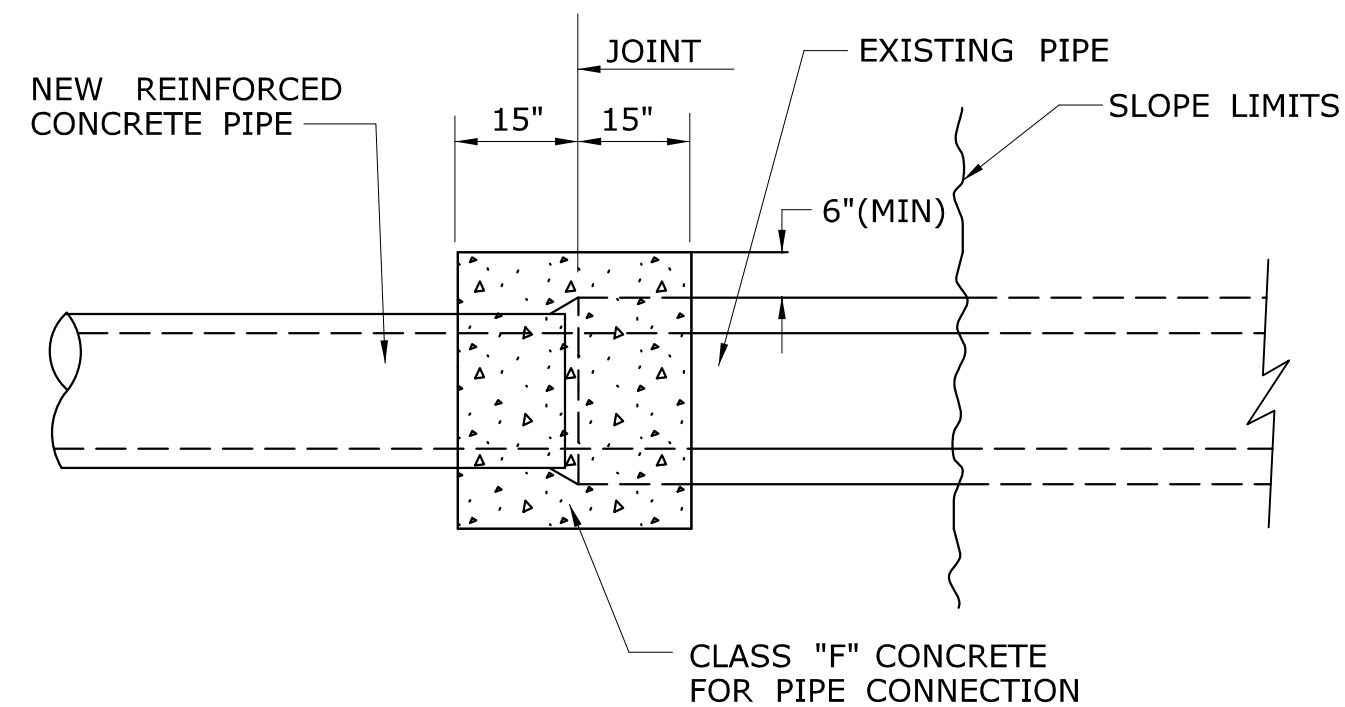
SUBMITTED BY: NAME/DATE/TIME:
APPROVED BY: NAME/DATE/TIME:
James H. Norman
2013.07.24 14:43:21-04'00'

CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

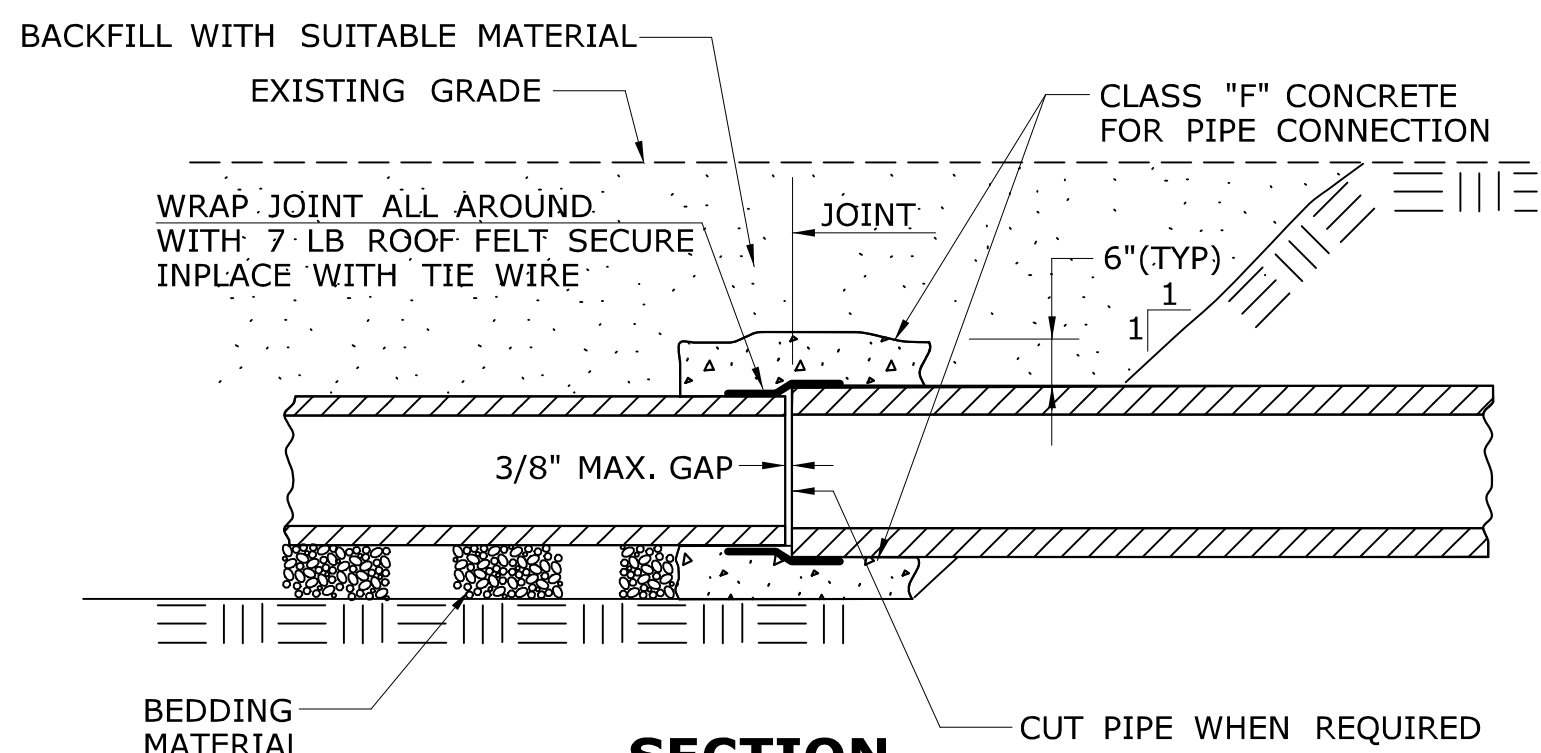
STANDARD SHEET TITLE:
STANDARD SHEET NO.:

MANHOLE - FRAME & COVER

HW-507_10



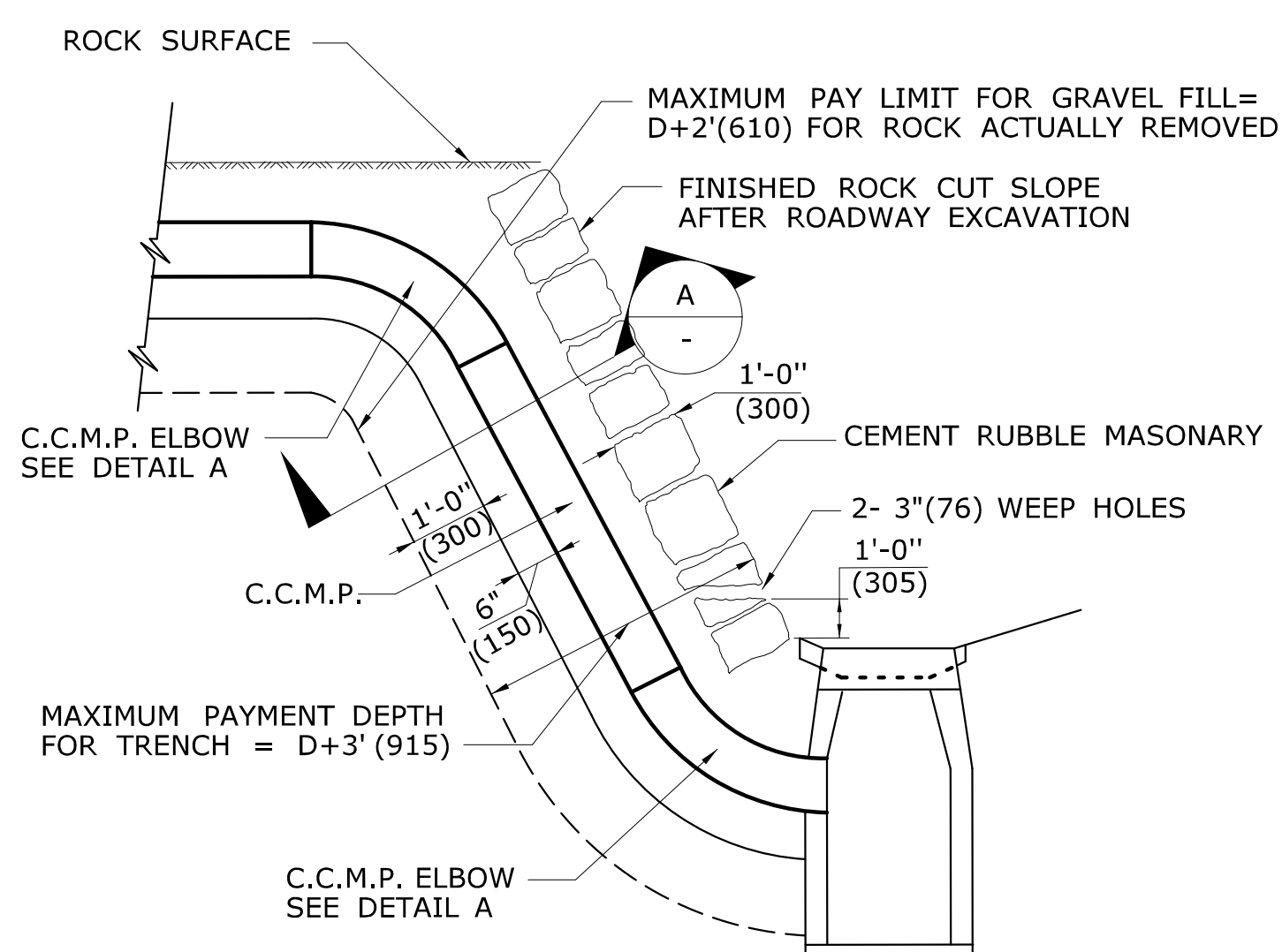
PLAN



**SECTION
CONCRETE PIPE CONNECTION**

NOTES:

- "CONCRETE PIPE CONNECTION" IS INTENDED FOR USE WHERE A REINFORCED CONCRETE PIPE REPAIR OR MODIFICATION IS NEEDED SOMEWHERE WITHIN A PIPE RUN WHERE A BELL/SPIGOT JOINT CANNOT BE ACHIEVED.
- MAINTAIN INTERIOR ALIGNMENT OF PIPE AT JOINTS UNTIL CONCRETE IS PROPERLY CURED.
- BACKFILL OF PIPE REPAIR WITH SUITABLE MATERIAL MAY NOT TAKE PLACE UNTIL CONCRETE IS PROPERLY CURED.
- CONTRACTOR SHALL MAINTAIN LINE AND GRADE OF PIPE REPAIR OR MODIFICATION BY METHODS APPROVED BY THE ENGINEER.
- HOLES OR GAPS AT JOINT LARGER THAN 3/8" SHALL BE FILLED OR WRAPPED TO PREVENT CONCRETE FROM ENTERING PIPE.
- TRENCH EXCAVATION SHALL BE TO THE MAXIMUM EXTENT NEEDED TO PERFORM WORK.



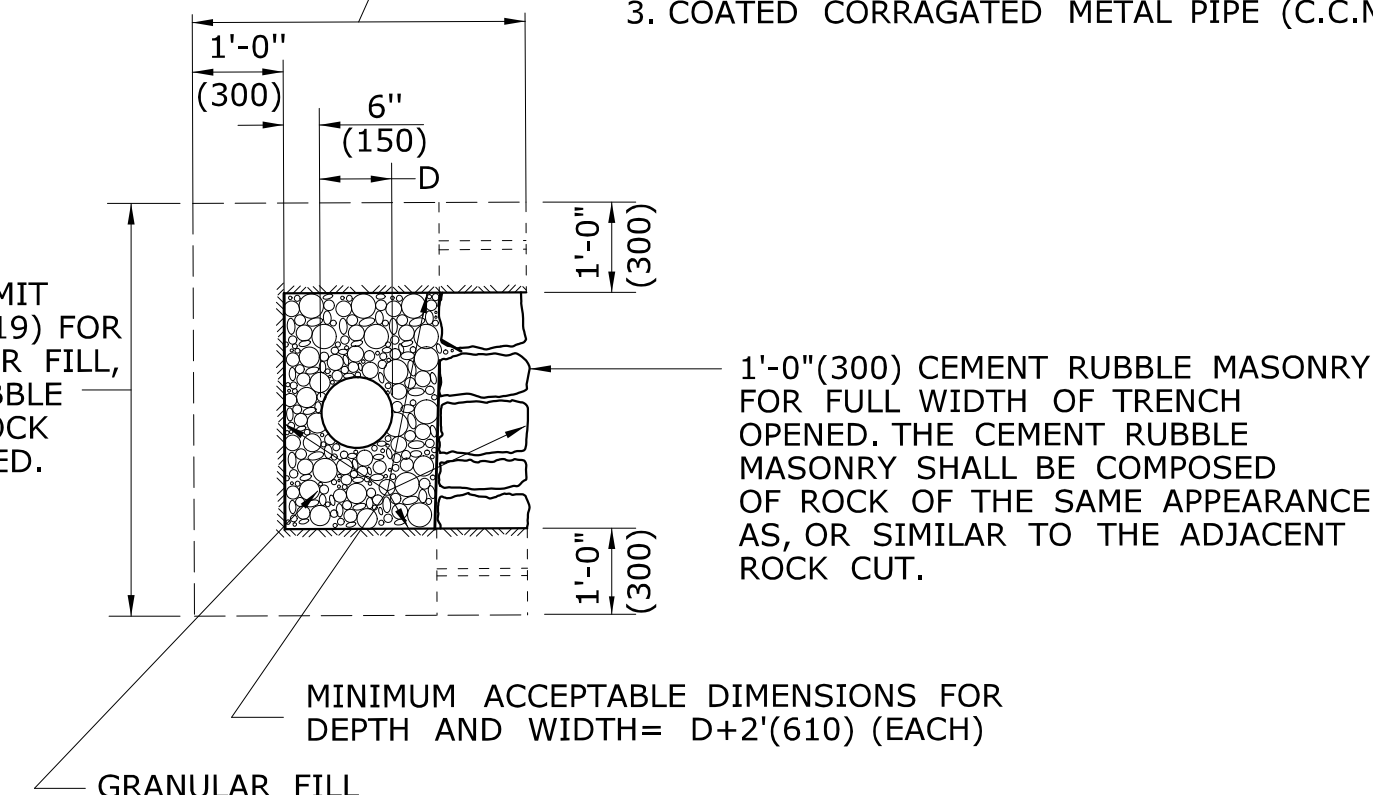
TYPICAL INSTALLATION OF C.C.M.P. IN ROCK SLOPE

MAXIMUM PAY LIMIT DEPTH FOR TRENCH = $D+3'(915)$. MAXIMUM PAY LIMIT FOR GRAVEL FILL = $D+2'(610)$ FOR ROCK ACTUALLY REMOVED.

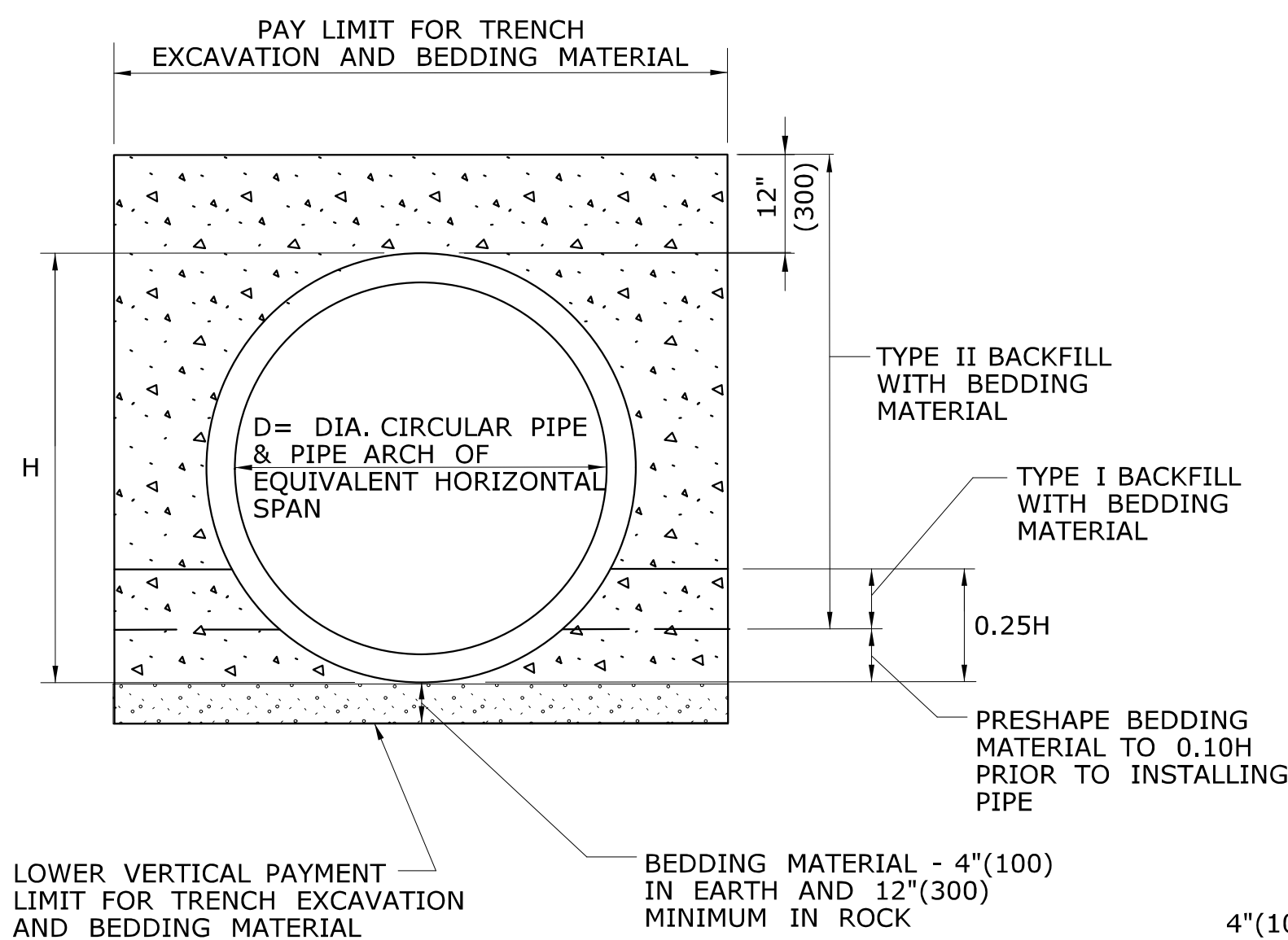
MAXIMUM PAY LIMIT WIDTH = $D+4'(1219)$ FOR TRENCH, GRANULAR FILL, AND CEMENT RUBBLE MASONRY FOR ROCK ACTUALLY REMOVED.

GENERAL NOTES:

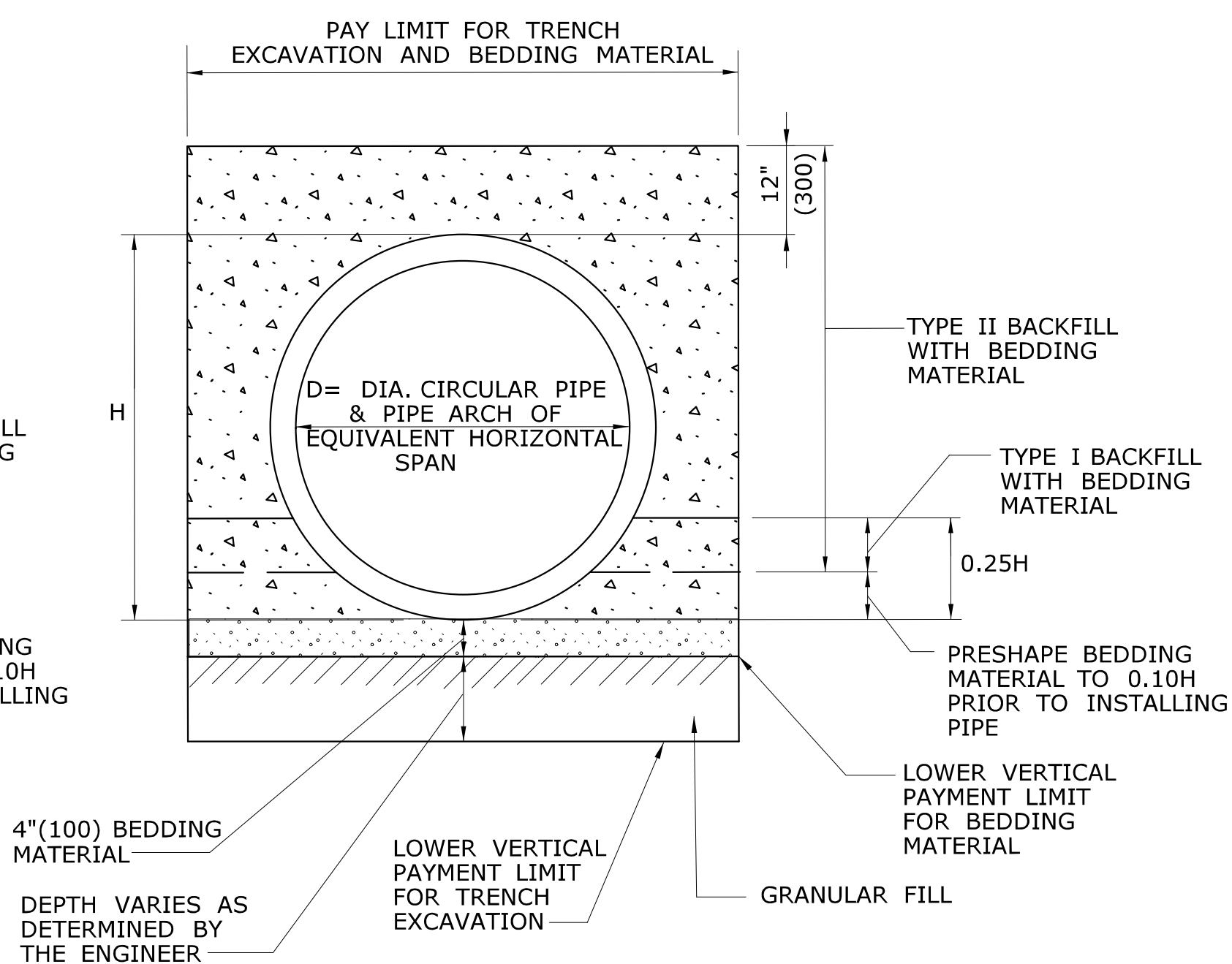
- ROCK REMOVED BEYOND THE MAXIMUM PAY LIMIT SHOWN SHALL BE REPLACED WITH CEMENT RUBBLE MASONRY AND GRANULAR FILL.
- FILL, AS REQUIRED TO CLOSE THE OPENING AS SHOWN ON THE PLANS, WILL BE AT THE CONTRACTORS EXPENSE. HOWEVER, THE PAY LIMIT LINES MAY BE MODIFIED TO COINCIDE WITH NATURAL FAULTS OR FISSURES OF ROCK AS THE ENGINEER MAY DETERMINE.
- COATED CORRUGATED METAL PIPE (C.C.M.P.)



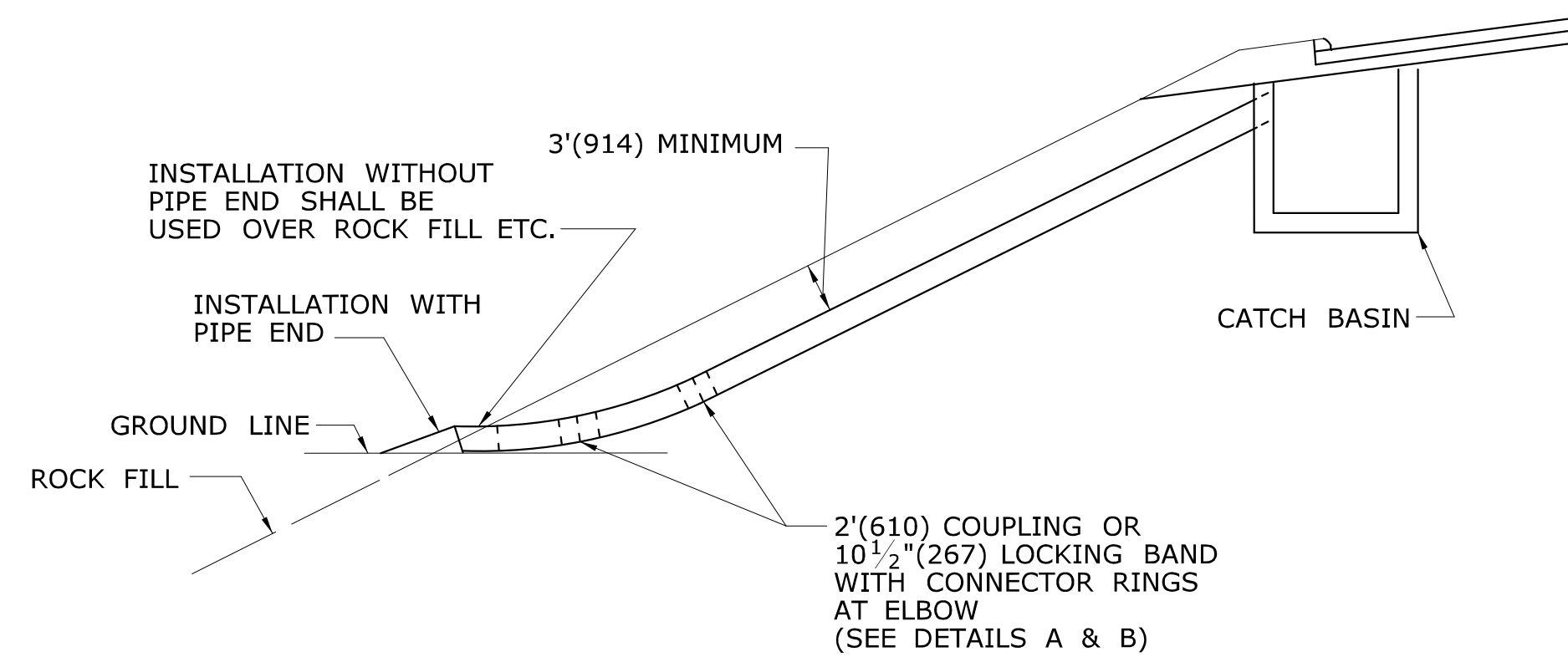
SECTION A



**PIPE TRENCH DETAIL
WHERE GRANULAR FILL IS NOT USED**



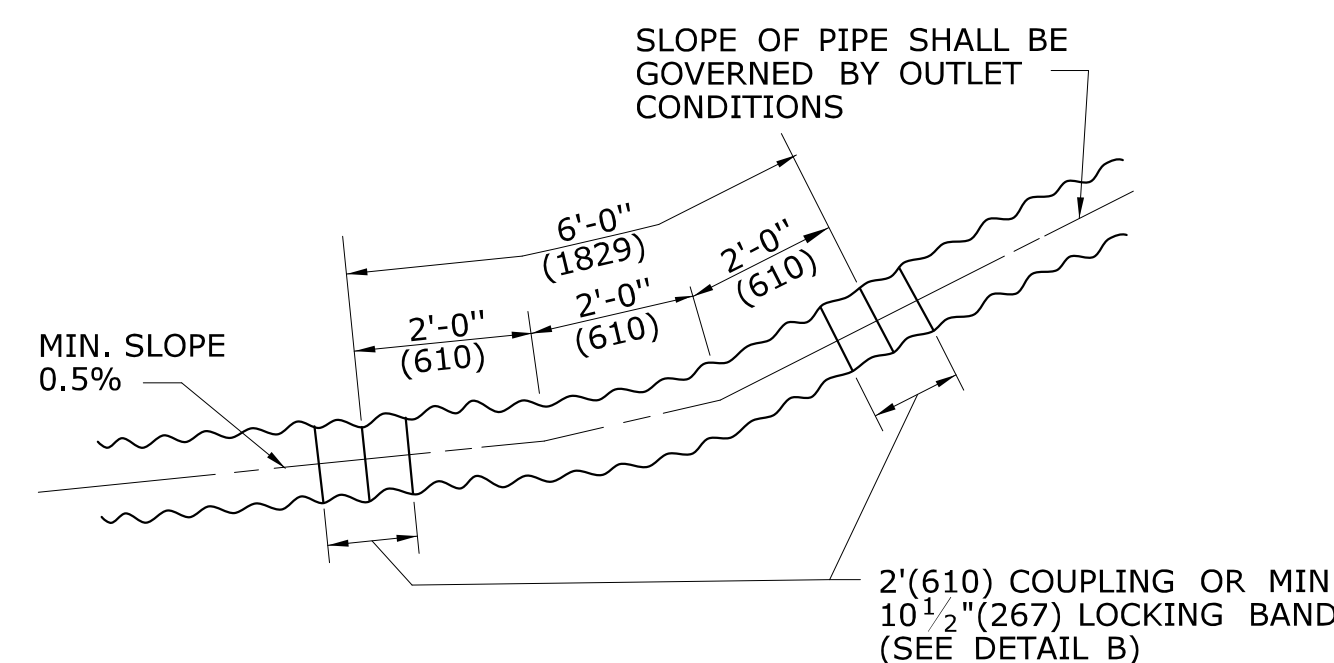
**PIPE TRENCH DETAIL
WHERE GRANULAR FILL IS USED AS BEDDING**



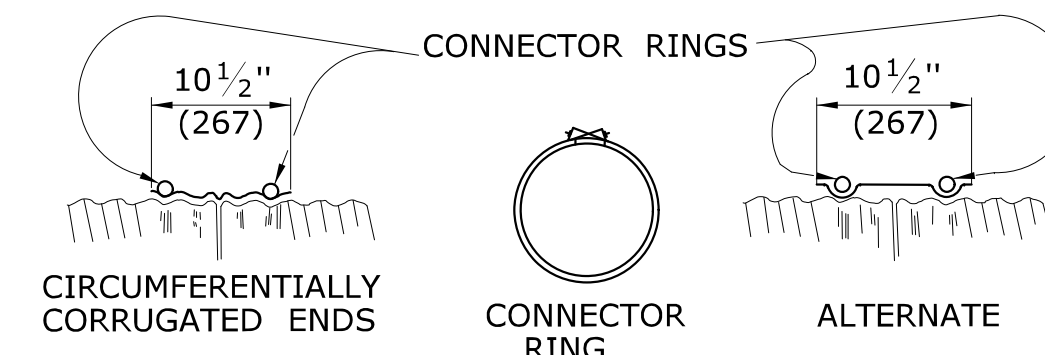
TYPICAL INSTALLATION OF C.C.M.P. ELBOW IN FILL SLOPE

**TABLE C
CONNECTOR RINGS**

PIPE DIAMETER	LENGTH OF RING
12" (300)	52" (1321)
15" (381)	61" (1549)
18" (457)	71" (1803)
21" (533)	80" (2032)
24" (610)	90" (2286)
30" (762)	108" (2743)
36" (915)	128" (3251)
42" (1066)	147" (3734)
48" (1219)	166" (4216)



**DETAIL A
C.C.M.P. ELBOW AND COUPLING**



**DETAIL B
ELBOW DIMENSIONS**

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

REV.	DATE	REVISION DESCRIPTION
3	7/13	ADD CONCRETE PIPE CONNECTION DETAIL
2	6/01/10	REVISE TITLE TO SAY TRENCH DETAIL
1	6/01/10	REMOVE GRAVEL, REPLACE W/ GRANULAR

NOT TO SCALE

**STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION**

Plotted Date: 6/13/2013

SUBMITTED BY: [Signature]

NAME/DATE/TIME: [Signature] 2013.07.24 11:01:39-04'00'

APPROVED BY: [Signature]

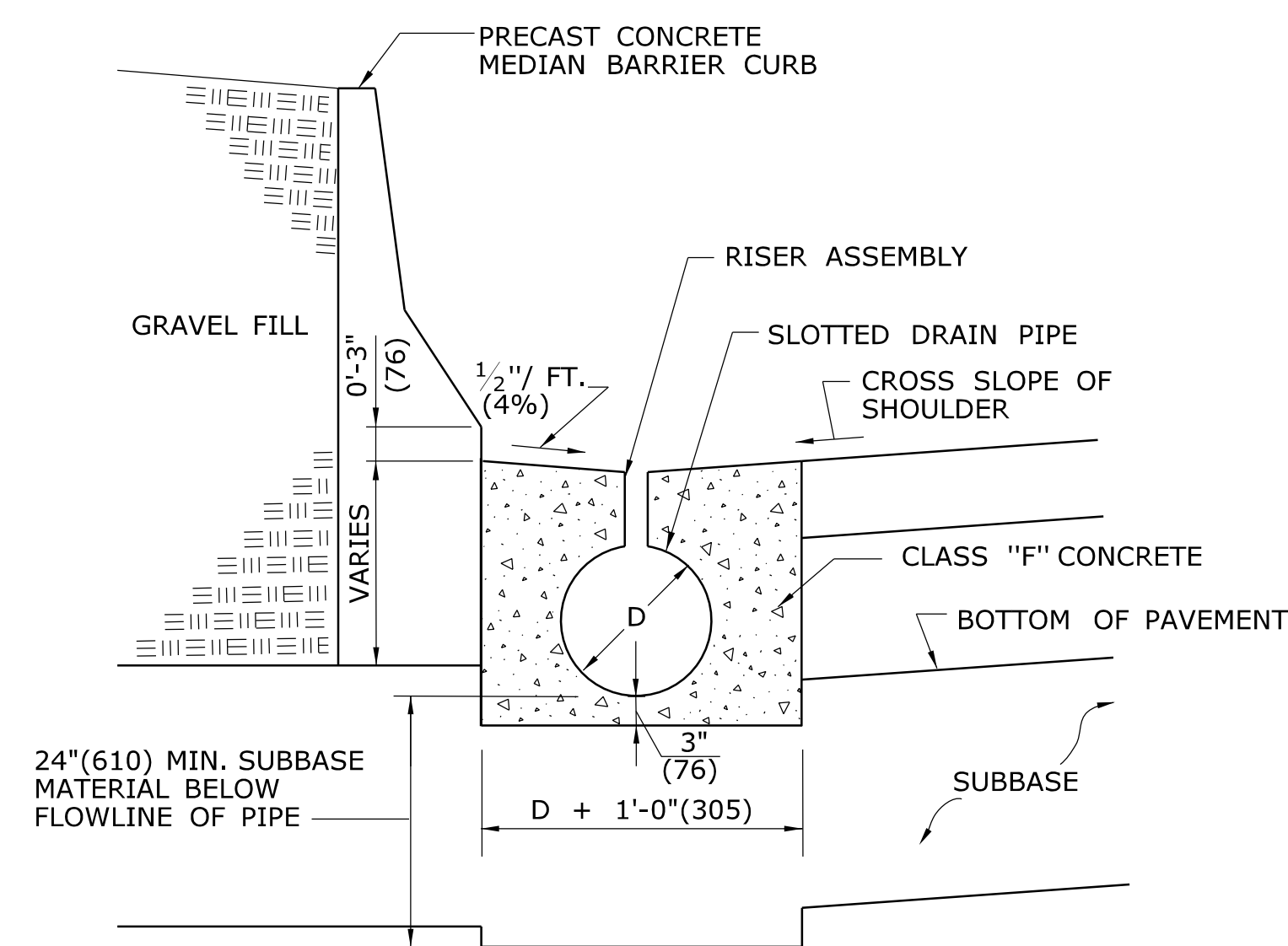
NAME/DATE/TIME: James H. Norman 2013.07.24 14:44:01-04'00'

**CTDOT
STANDARD SHEET**

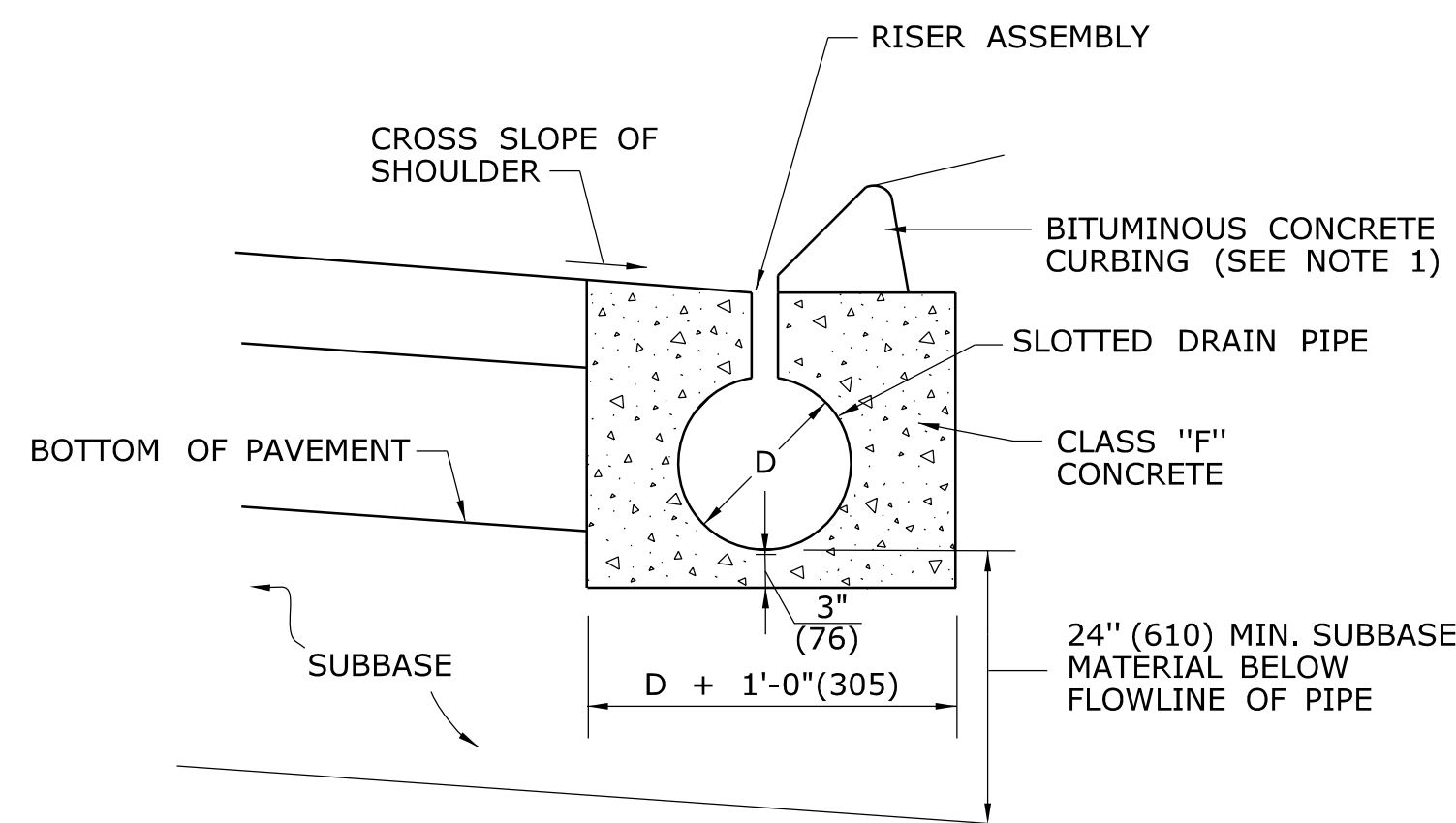
OFFICE OF ENGINEERING

STANDARD SHEET TITLE: **C.C.M.P. PIPE INSTALLATIONS IN FILL & ROCK SLOPES & PIPE TRENCH DETAIL**

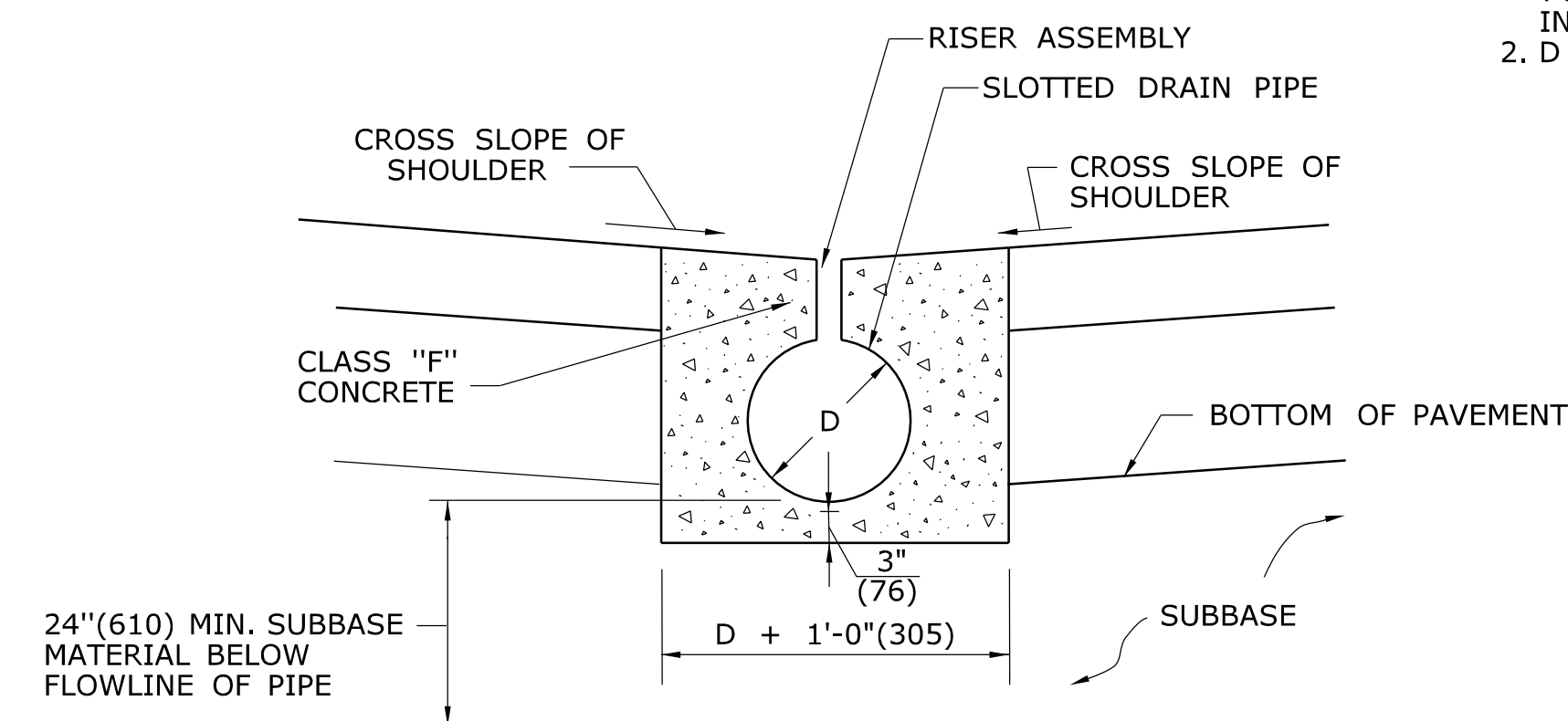
STANDARD SHEET NO.: **HW-651_01**



MEDIAN BARRIER CURB INSTALLATION



CURB INSTALLATION

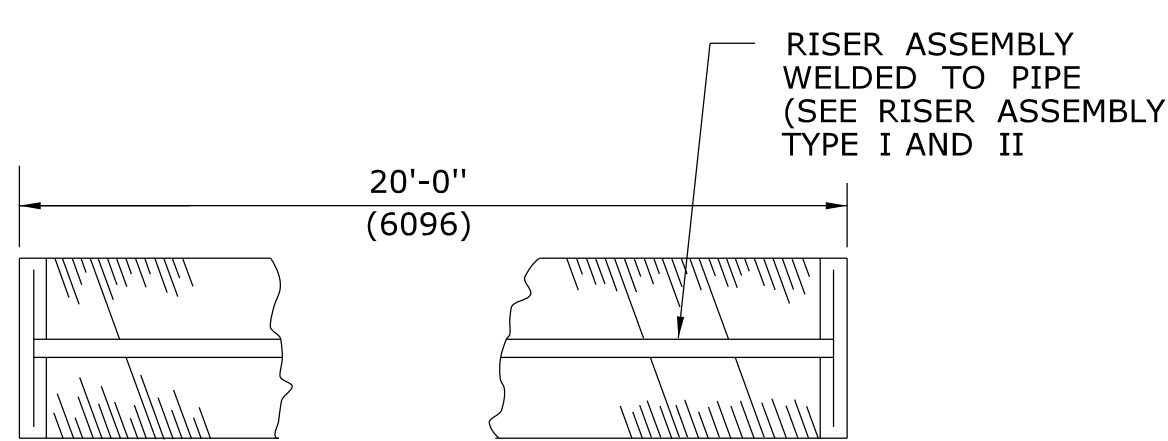


GORE OR MEDIAN INSTALLATION

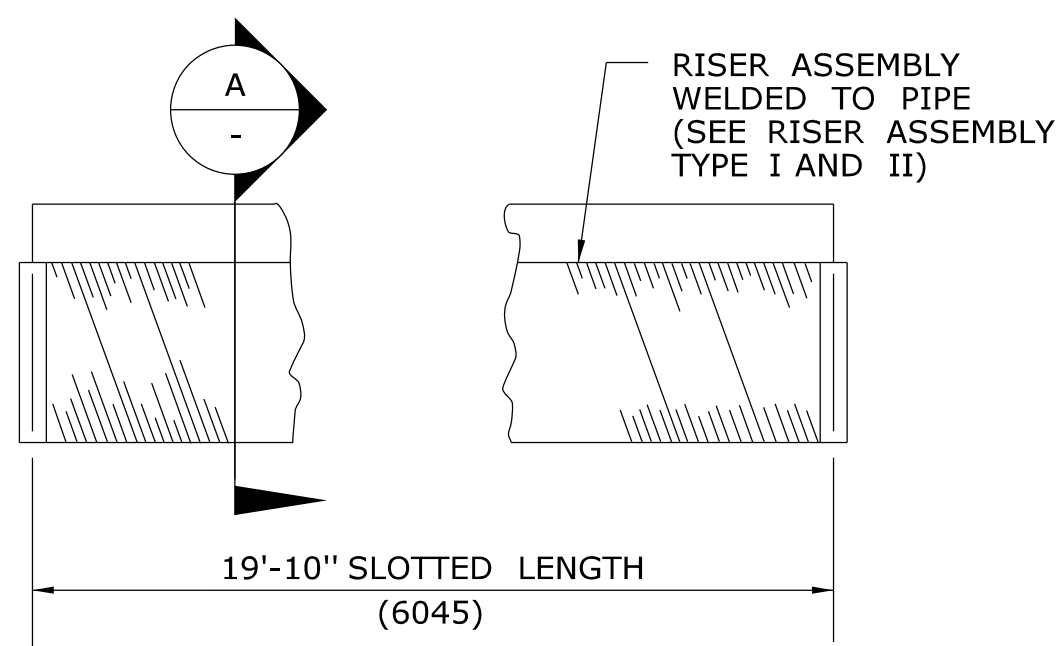
GENERAL NOTES:

1. WHERE GRANITE OR CONCRETE CURBING IS USED SLOTTED DRAIN PIPE WILL BE INSTALLED AS SHOWN FOR MEDIAN BARRIER CURB INSTALLATIONS.
2. D = DIAMETER OF PIPE.

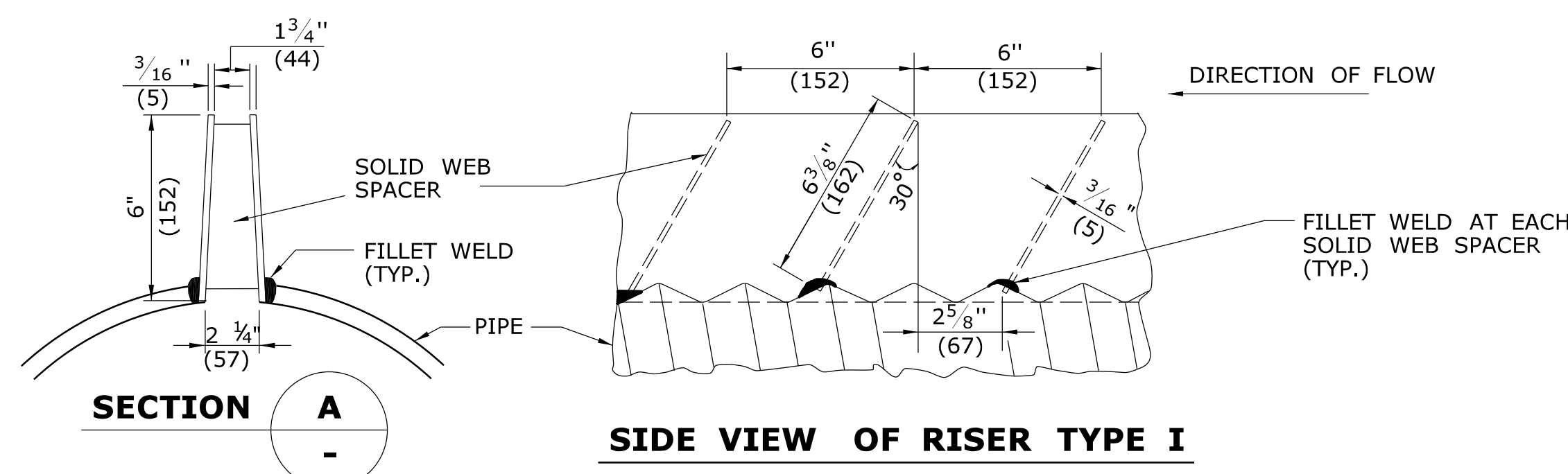
TYPICAL - APPLICATIONS



PLAN

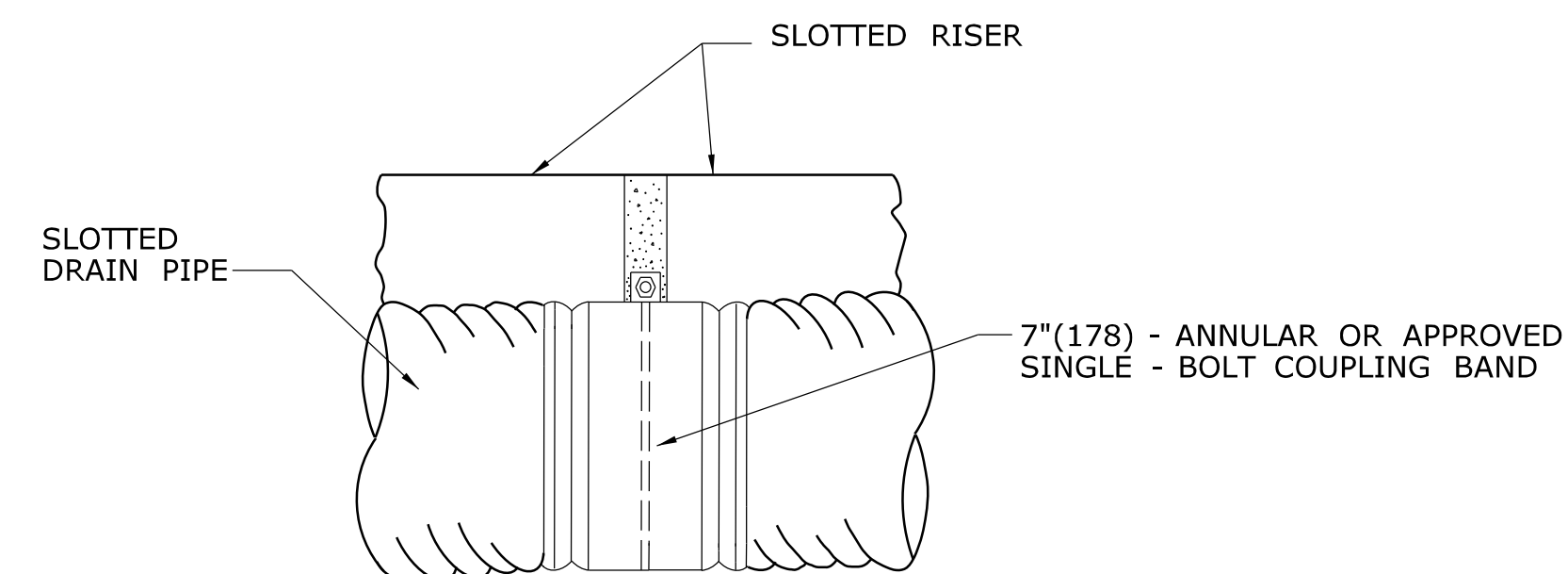


**ELEVATION
TYPICAL PIPE SEGMENT**

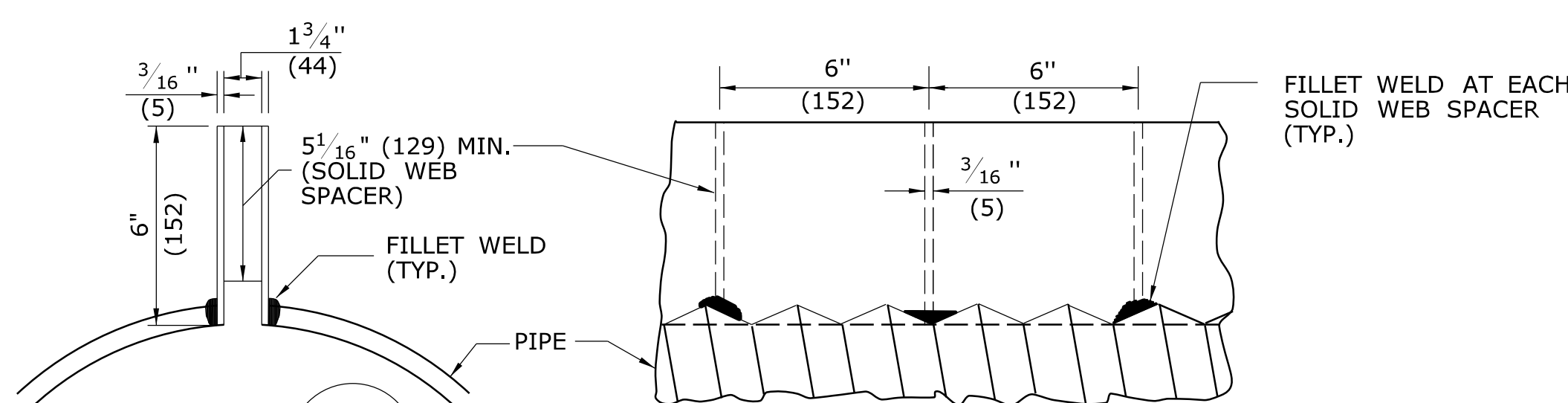


**SECTION A
RISER ASSEMBLY
TYPE I**

**SIDE VIEW OF RISER TYPE I
(SLANTED SPACER PLATES)**

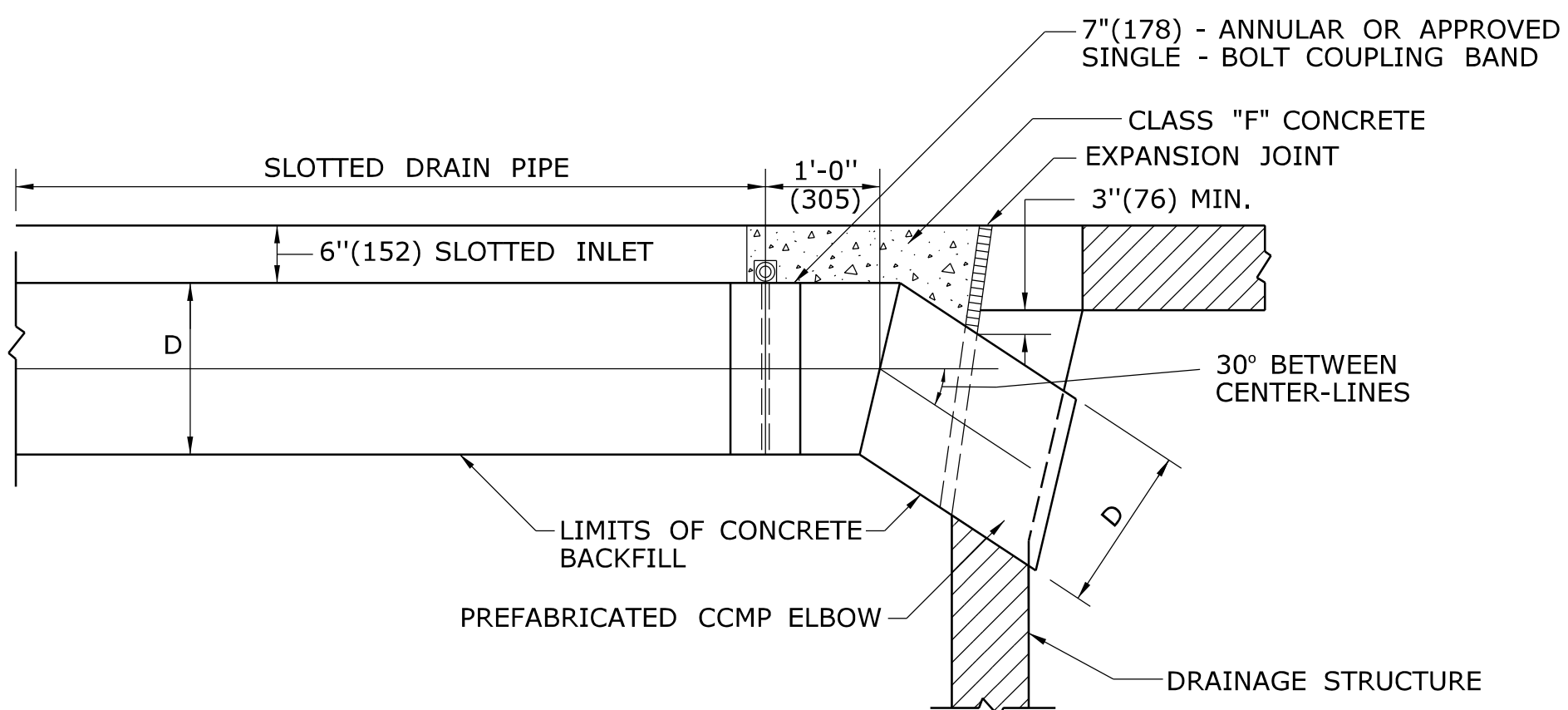


CONNECTION DETAIL



**SECTION A
RISER ASSEMBLY
TYPE II**

**SIDE VIEW OF RISER TYPE II
(VERTICAL SPACER PLATES)**



CONNECTION TO DRAINAGE STRUCTURE

NOTE: INSTALL END CAP AT UPSTREAM END

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

REV.	DATE	REVISION DESCRIPTION

NOT TO SCALE

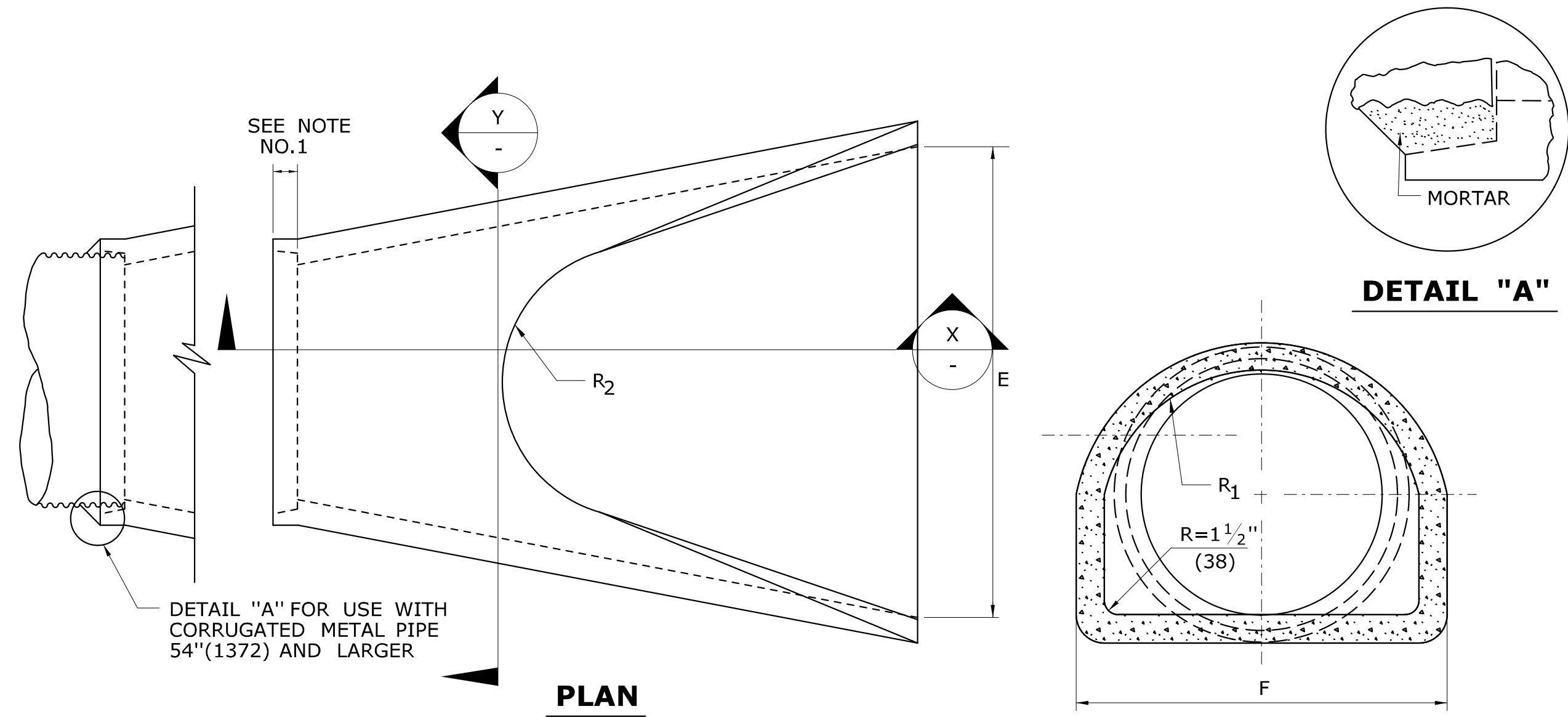
STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

SUBMITTED BY: _____ NAME/DATE/TIME: _____
 APPROVED BY: _____ NAME/DATE/TIME: _____

CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

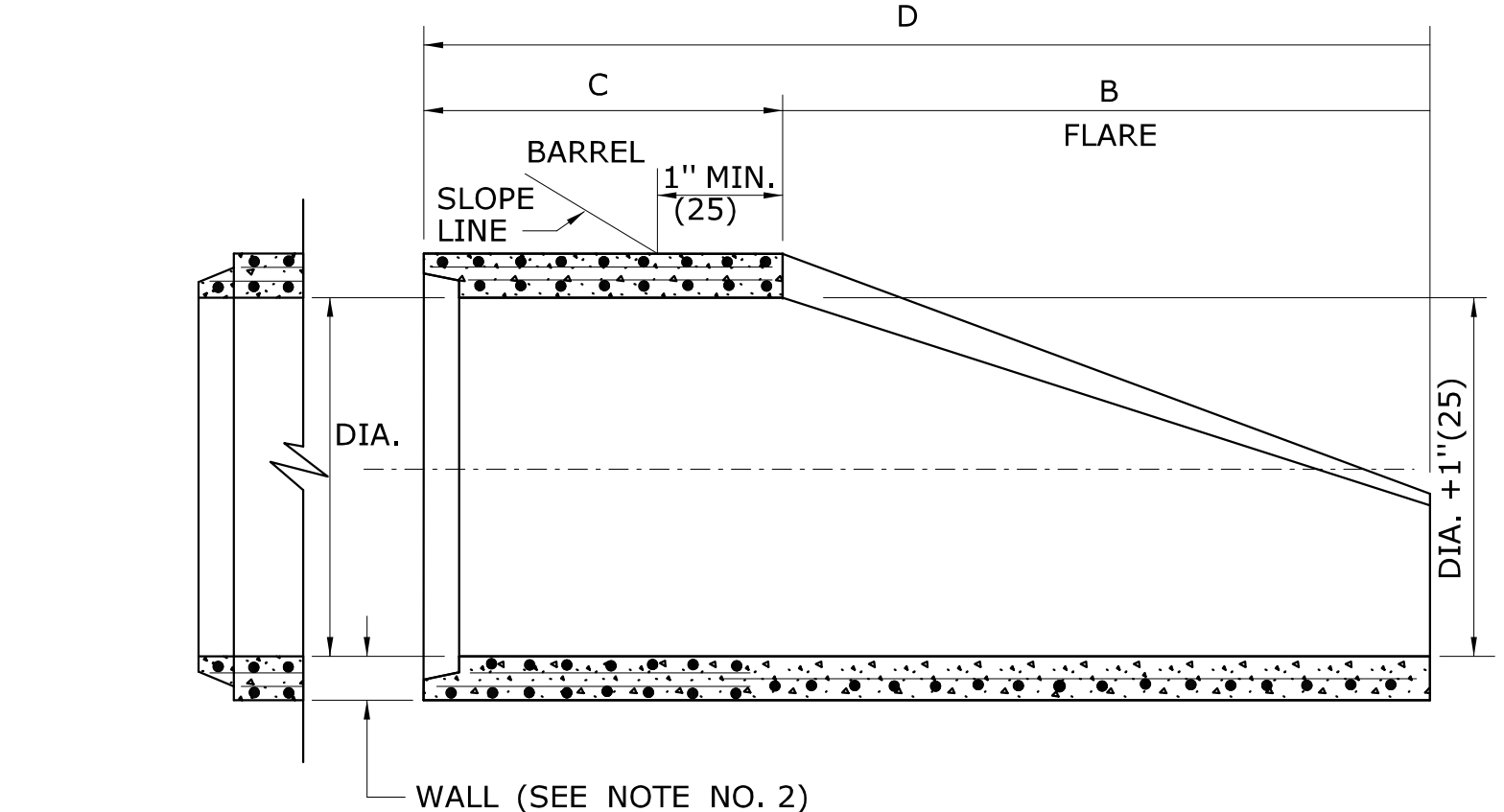
STANDARD SHEET TITLE:
SLOTTED DRAIN PIPE 12"-15"-18"-24"-30"
(305-381-457-610-762)

STANDARD SHEET NO.:
HW-651_02



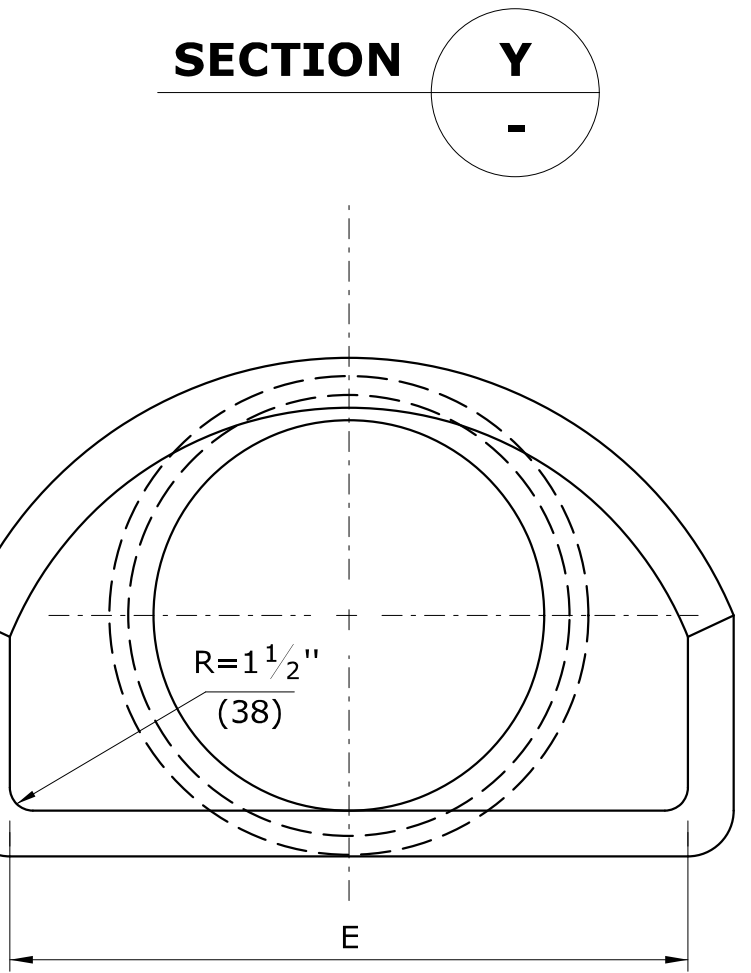
DETAIL "A"

PLAN



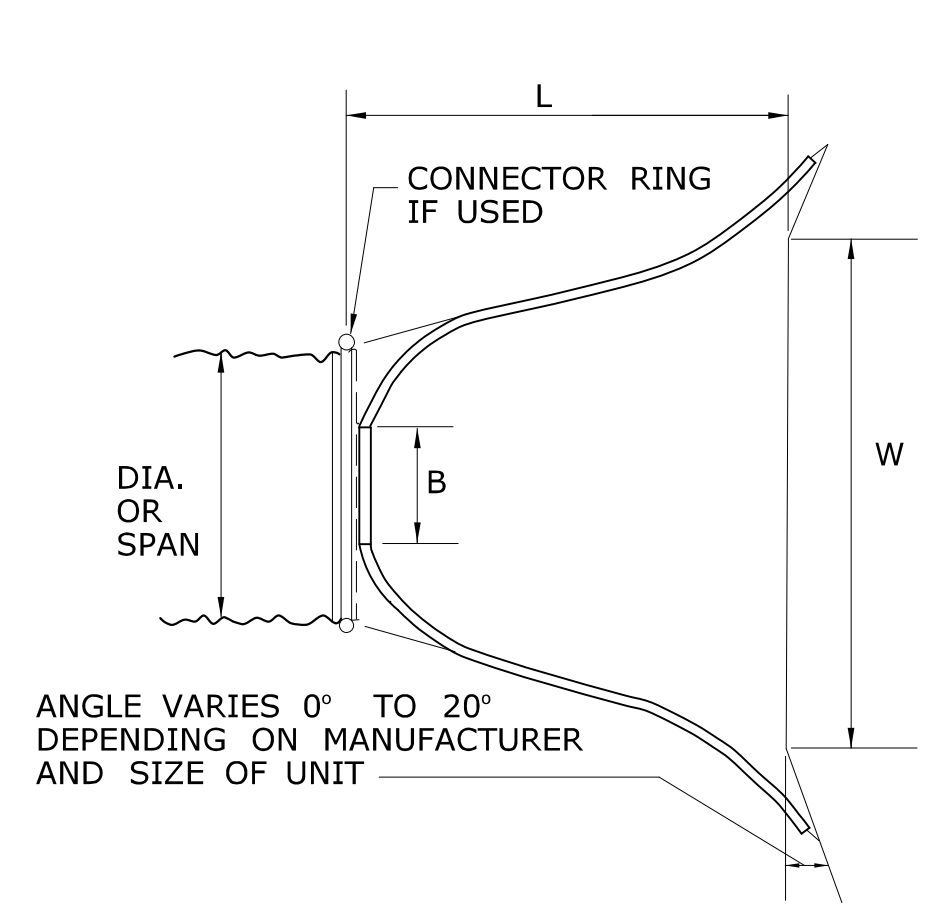
SECTION X

REINFORCED CONCRETE PIPE END

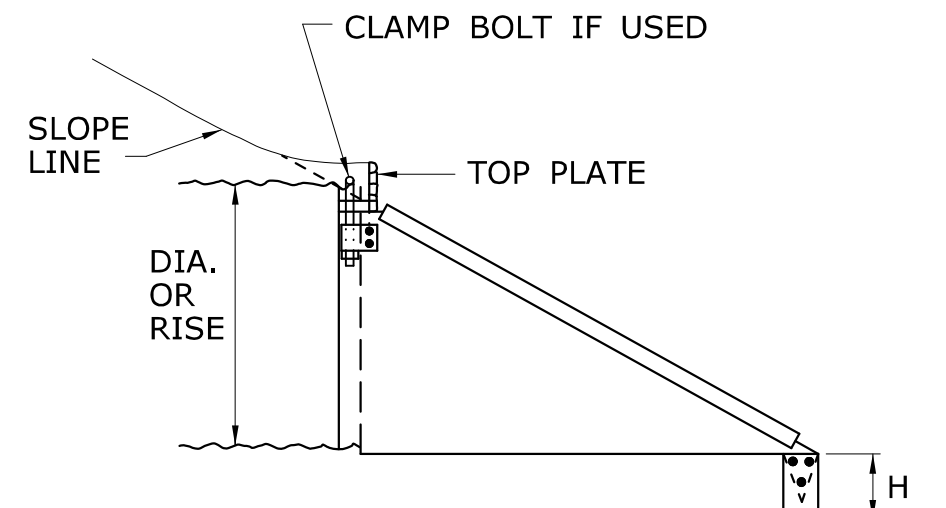


SECTION Y

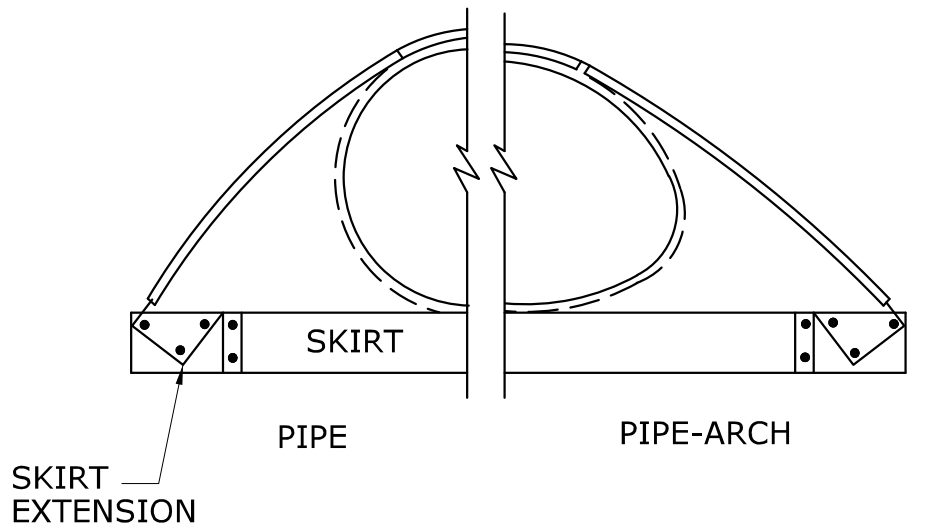
END VIEW



PLAN

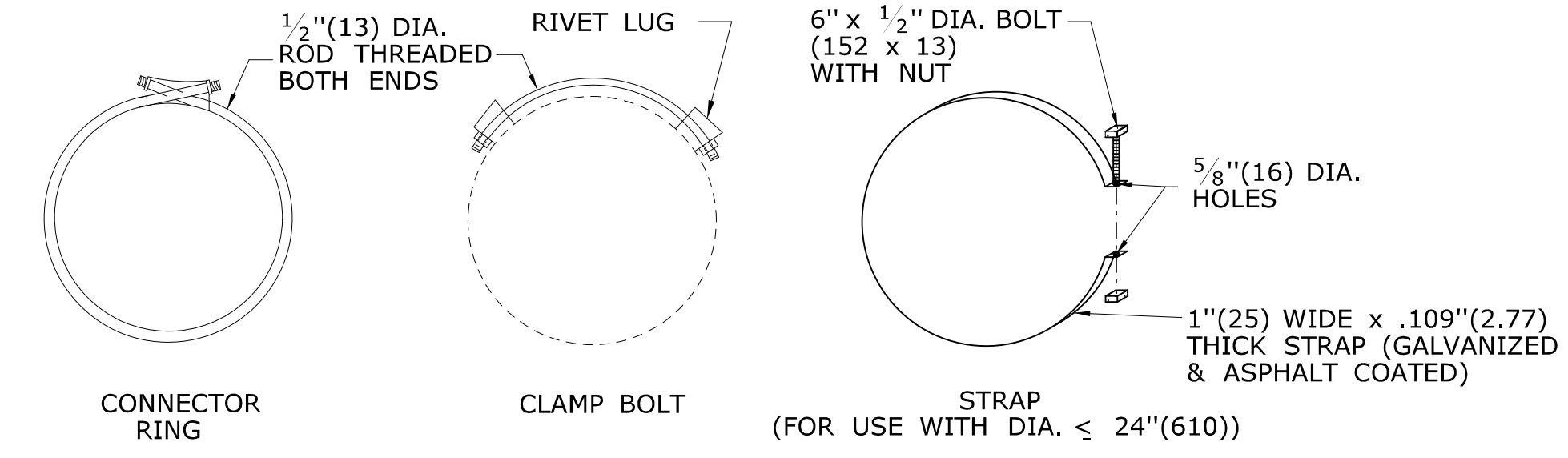


SIDE VIEW

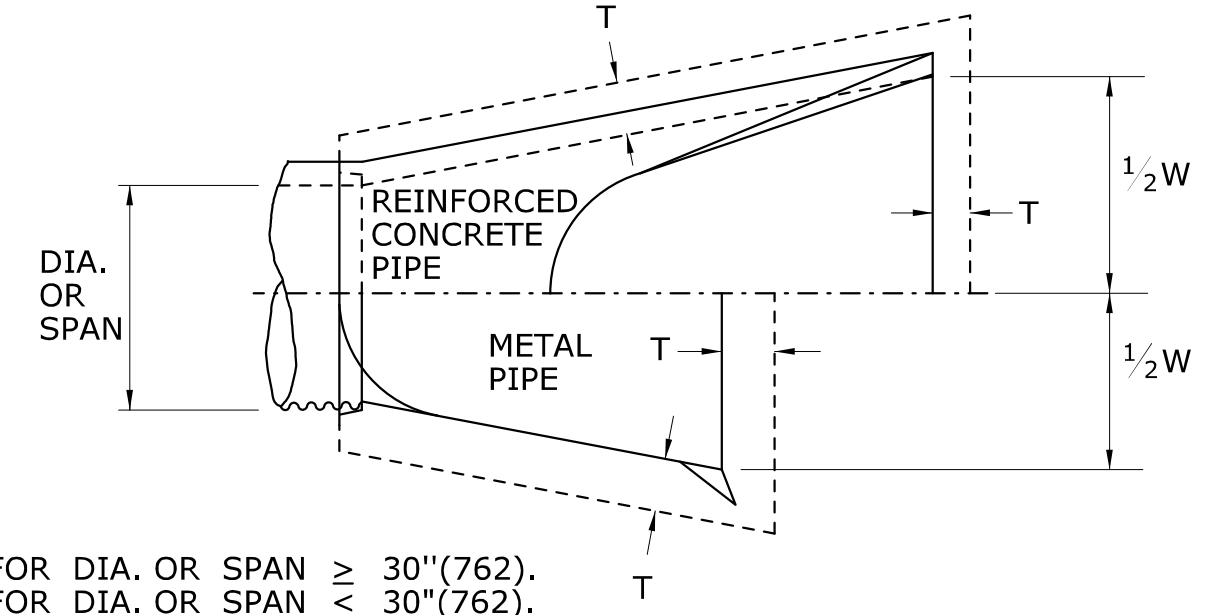


END VIEW

METAL PIPE END

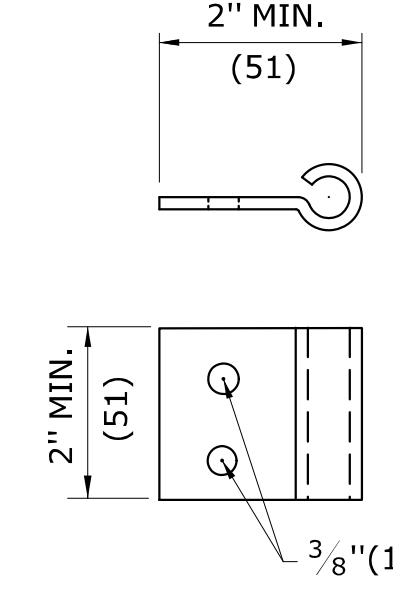


ATTACHMENT SYSTEMS

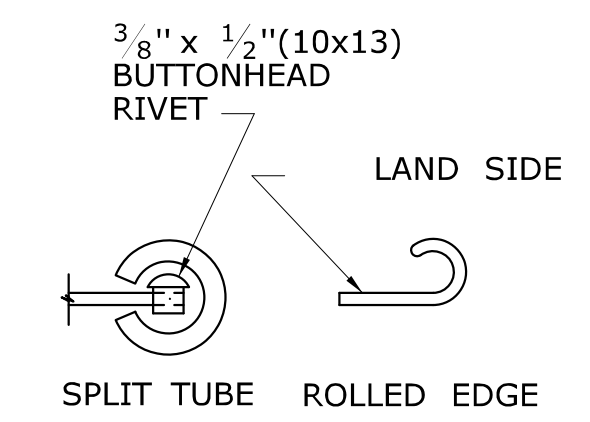


NOTE:
T = 18"(457) FOR DIA. OR SPAN ≥ 30"(762).
T = 12"(305) FOR DIA. OR SPAN < 30"(762).

HORIZONTAL PAY LIMITS FOR TRENCH EXCAVATION-PIPE ENDS



RIVET LUG



EDGE REINFORCEMENT

DIA.	DIMENSIONS FOR REINFORCED CONCRETE PIPE END								FLARE REINFORCEMENT	
	A	B	C	D	E	F	R ₁	R ₂	ONE LAYER ONLY IN CENTER OF WALL	MIN. AREA OF TRANSVERSE STEEL
12"(305)	4"(102)	2'-0"(610)	4'-0 ³ / ₈ "(1241)	6'-0 ³ / ₈ "(1851)	2'-0"(610)	1'-7 ¹⁵ / ₁₆ "(506)	10 ¹ / ₄ "(260)	9"(229)	0.048	0.048
15"(381)	6"(152)	2'-3"(686)	3'-10"(1168)	6'-1"(1854)	2'-6"(762)	2'-0 ⁵ / ₁₆ "(618)	1'-0 ¹ / ₂ "(318)	11"(279)	0.054	0.054
18"(457)	9"(229)	2'-3"(686)	3'-10"(1168)	6'-1"(1854)	3'-0"(914)	2'-5"(737)	1'-3 ¹ / ₂ "(394)	1'-0"(305)	0.060	0.060
21"(533)	9"(229)	2'-11"(889)	3'-2"(965)	6'-1"(1854)	3'-6"(1067)	2'-7 ¹ / ₂ "(800)	1'-4"(406)	1'-1"(330)	0.066	0.066
24"(610)	9 ¹ / ₂ "(241)	3'-7 ¹ / ₂ "(1105)	2'-6"(762)	6'-1 ¹ / ₂ "(1867)	4'-0"(1219)	2'-9 ³ / ₁₆ "(843)	1'-4 ¹³ / ₁₆ "(427)	1'-2"(356)	0.072	0.072
30"(762)	1'-0"(305)	4'-6"(1371)	1'-7 ³ / ₄ "(502)	6'-1 ³ / ₄ "(1873)	5'-0"(1524)	3'-1"(940)	1'-6 ¹ / ₂ "(470)	1'-3"(381)	0.084	0.084
36"(914)	1'-3"(381)	5'-3"(1600)	2'-10 ³ / ₄ "(883)	8'-1 ³ / ₄ "(2483)	6'-0"(1829)	3'-11 ¹³ / ₁₆ "(1214)	2'-0 ⁵ / ₁₆ "(618)	1'-8"(508)	0.096	0.096
42"(1067)	1'-9"(534)	5'-3"(1600)	2'-11"(889)	8'-2"(2489)	6'-6"(1981)	4'-5 ⁷ / ₈ "(1368)	2'-3 ¹ / ₂ "(699)	1'-10"(559)	0.108	0.108
48"(1219)	2'-0"(610)	6'-0"(1829)	2'-2"(660)	8'-2"(2489)	7'-0"(2134)	4'-8 ¹ / ₂ "(1435)	2'-4 ¹ / ₂ "(724)	1'-10"(559)	0.120	0.120
54"(1372)	2'-3"(686)	5'-5"(1651)	2'-11"(889)	8'-4"(2540)	7'-6"(2286)	5'-5 ¹ / ₂ "(1664)	2'-9 ¹ / ₈ "(841)	2'-0"(610)	0.132	0.132
60"(1524)	2'-9"(838)	5'-0"(1524)	3'-3"(991)	8'-3"(2515)	8'-0"(2438)	6'-0 ¹ / ₂ "(1842)	3'-0 ¹¹ / ₁₆ "(932)	2'-0"(610)	0.144	0.144

PIPE DIA.	DIMENSIONS FOR METAL PIPE END				THICKNESS INS.(mm)
	B (MAX.)	H±1" (±25)	L±1 1/2" (±35)	W±2" (±50)	
12"(305)	6"(152)	6"(152)	21"(533)	24"(610)	.064(1.63)
15"(381)	8"(203)	6"(152)	26"(660)	30"(762)	.064(1.63)
18"(457)	10"(254)	6"(152)	31"(787)	36"(914)	.064(1.63)
21"(533)	12"(305)	6"(152)	36"(914)	42"(1067)	.064(1.63)
24"(610)	13"(330)	6"(152)	41"(1041)	48"(1219)	.064(1.63)
30"(762)	16"(406)	8"(203)	51"(1295)	60"(1524)	.079(2.01)
36"(914)	19"(483)	9"(229)	60"(1524)	72"(1829)	.079(2.01)
42"(1067)	22"(559)	11"(279)	69"(1753)	84"(2134)	.109(2.77)
48"(1219)	27"(686)	12"(305)	78"(1981)	90"(2286)	.109(2.77)
54"(1372)	30"(762)	12"(305)	84"(2134)	102"(2591)	.109(2.77)
60"(1524)	33"(838)	12"(305)	87"(2210)	114"(2896)	.109(2.77)
66"(1676)	36"(914)	12"(305)	87"(2210)	120"(3048)	.109(2.77)
72"(1829)	39"(991)	12"(305)	87"(2210)	126"(3200)	.109(2.77)
78"(1981)	42"(1067)	12"(305)	87"(2210)	132"(3353)	.109(2.77)
84"(2134)	45"(1143)	12"(305)	87"(2210)	138"(3450)	.109(2.77)

PIPE ARCH SIZE	DIMENSIONS FOR METAL PIPE END						THICKNESS INS.(mm)
	SPAN	RISE	B (MAX.)	H±1" (±25)	L±1 1/2" (±35)	W±2" (±50)	
17"(432)	13"(330)	9"(229)	6"(152)	19"(483)	30"(762)	.064(1.63)	
21"(533)	15"(381)	10"(254)	6"(152)	23"(584)	36"(914)	.064(1.63)	
24"(610)	18"(457)	12"(305)	6"(152)	28"(711)	42"(1067)	.064(1.63)	
28"(711)	20"(508)	14"(356)	6"(152)	32"(813)	48"(1219)	.064(1.63)	
35"(889)	24"(610)	16"(406)	6"(152)	39"(991)	60"(1524)	.079(2.01)	
42"(1067)	29"(737)	18"(457)	8"(203)	46"(1168)	75"(1905)	.079(2.01)	
49"(1245)	33"(838)	21"(533)	9"(229)	53"(1346)	85"(2159)	.109(2.77)	
57"(1448)	38"(965)	26"(660)	12"(305)	63"(1600)	90"(2286)	.109(2.77)	
64"(1626)	43"(1092)	30"(762)	12"(305)	70"(1778)	102"(2591)	.109(2.77)	
71"(1803)	47"(1194)	33"(838)	12"(305)	77"(1956)	114"(2896)	.109(2.77)	

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

REV.	DATE	REVISION DESCRIPTION
1	7/13	CHANGE ALL CULVERT LABELS TO SAY PIPE
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/28/2013

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: CTDOT-HIGHWAY-STD2013.dgn Model: 19-HW-652_01

SUBMITTED BY: NAME/DATE/TIME:

APPROVED BY: NAME/DATE/TIME:

James H. Norman
2013.07.24 14:44:38-04'00'

CTDOT
STANDARD SHEET

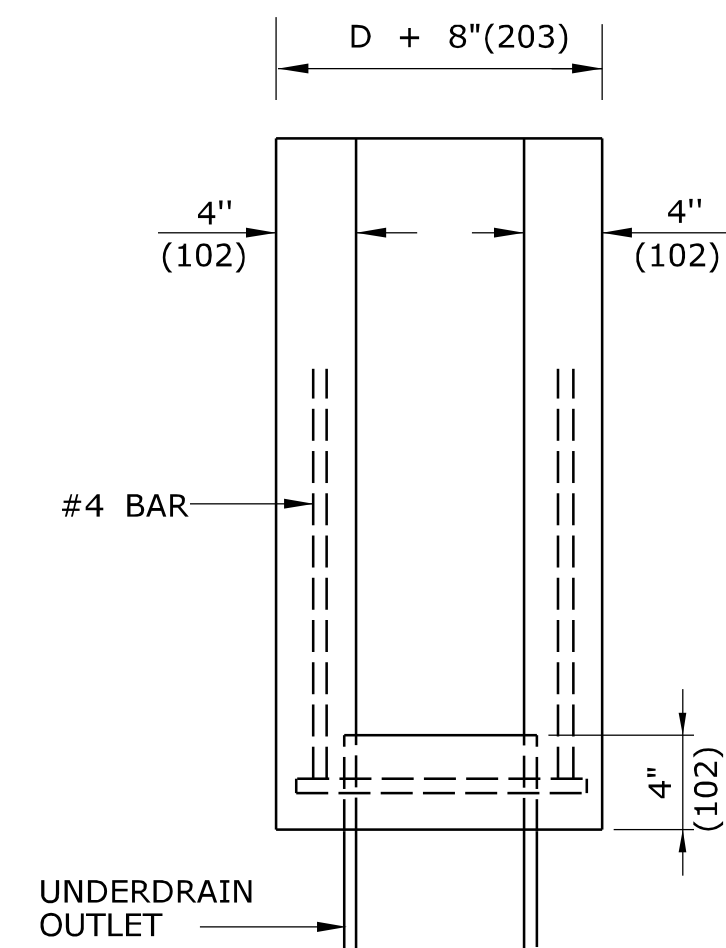
OFFICE OF ENGINEERING

STANDARD SHEET TITLE: **PIPE ENDS**

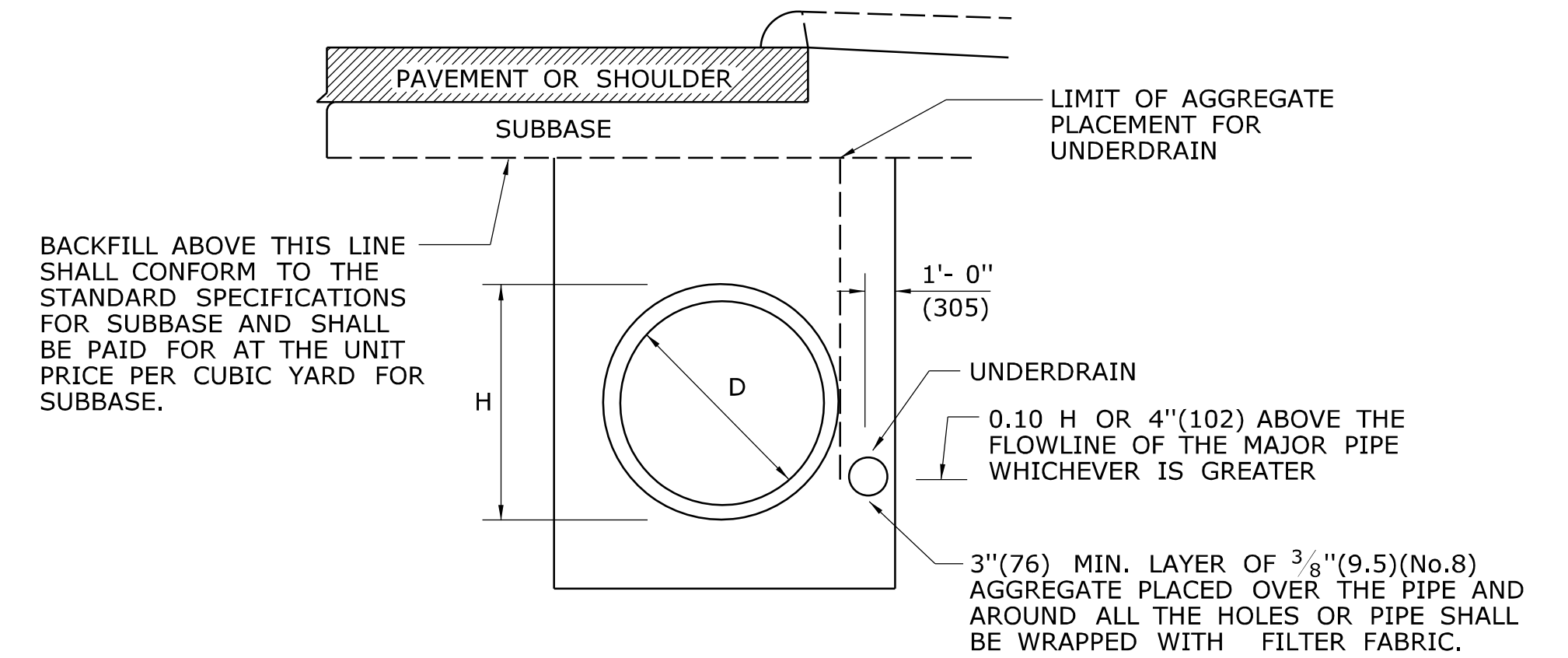
STANDARD SHEET NO.: **HW-652_01**

GENERAL NOTES:

1. THE OUTLET ENDWALL CAN BE EITHER PRECAST OR CAST IN PLACE. CONCRETE SHALL BE CLASS "C" CONCRETE.
2. IF PRECAST CONCRETE ENDWALL IS USED, THE OUTLET SHALL BE GROUTED AND SEALED TO ENDWALL OPENING WITH NON-SHRINK GROUT.

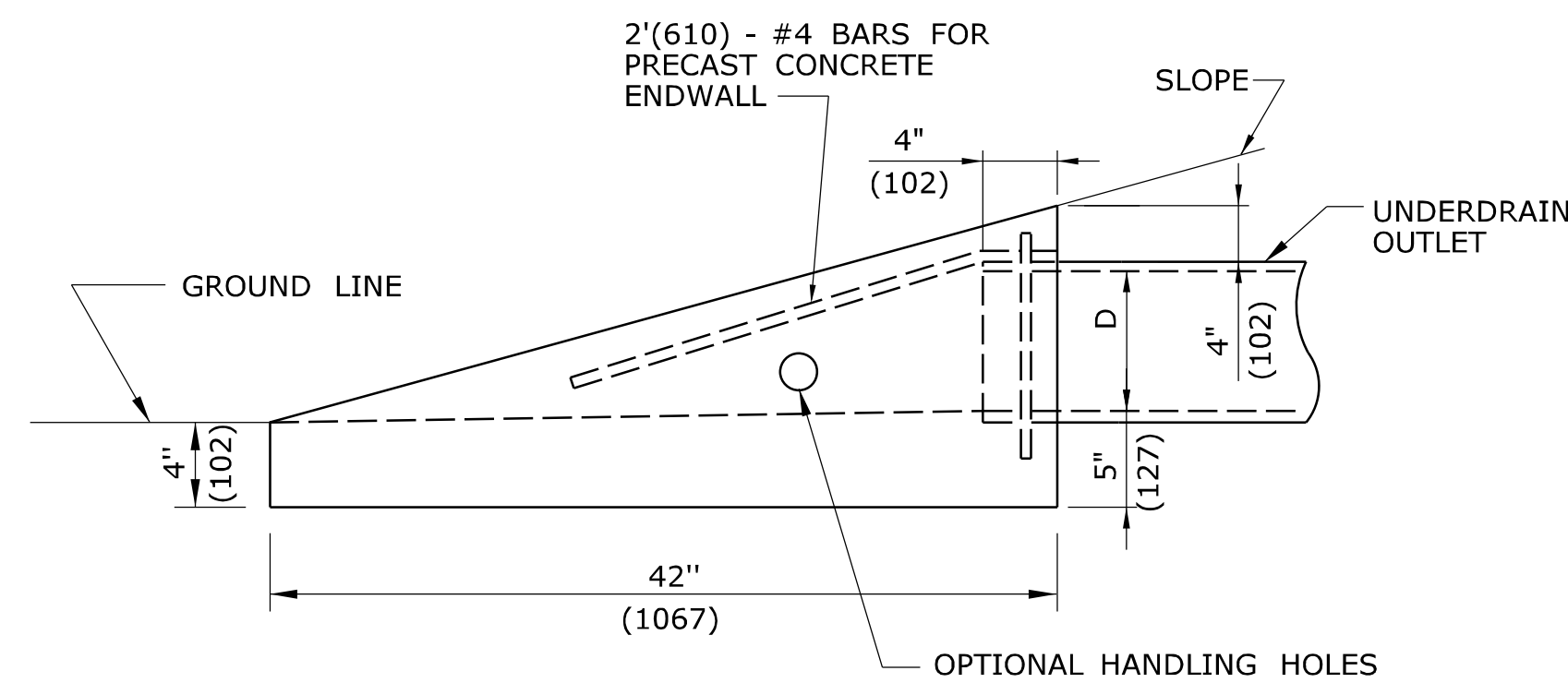


PLAN VIEW

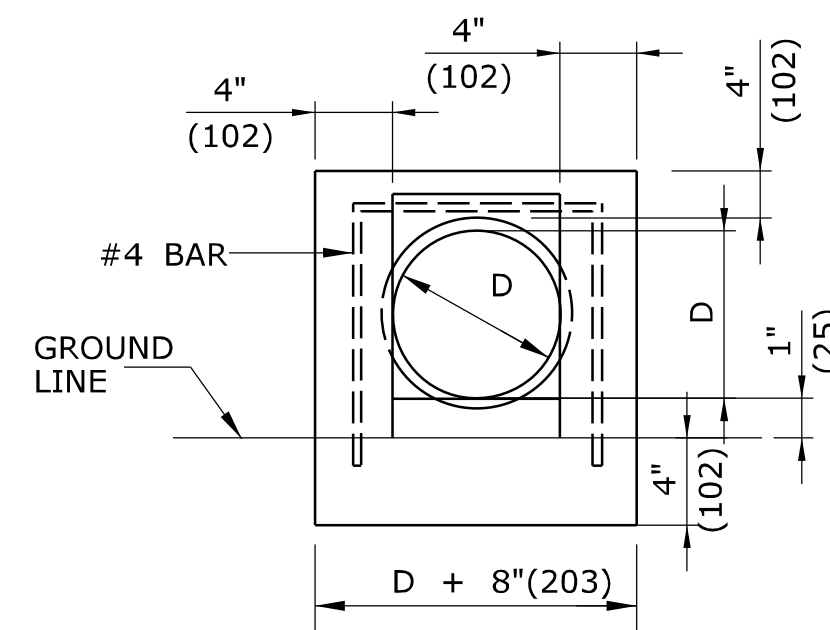


NOTE:
PAY LIMIT FOR TRENCH EXCAVATION AND BEDDING SHALL BE THE SAME AS FOR THE CULVERT ALONE. MATERIAL ABOVE THE BEDDING SHALL BE SUITABLE MATERIAL OR GRANULAR FILL.

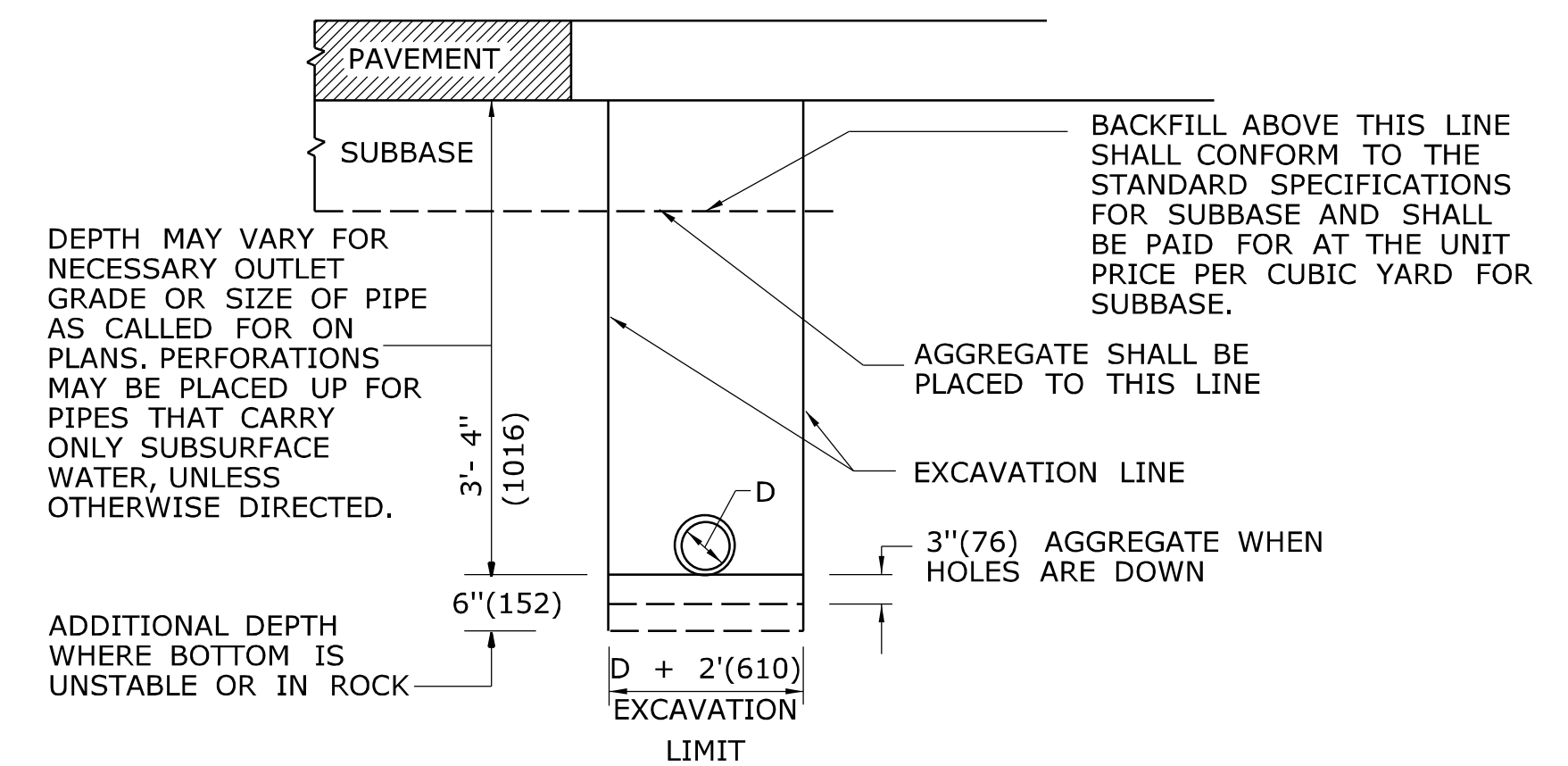
**CULVERT AND UNDERDRAIN
IN THE SAME TRENCH**



ENDWALL



ELEVATION



UNDERDRAIN

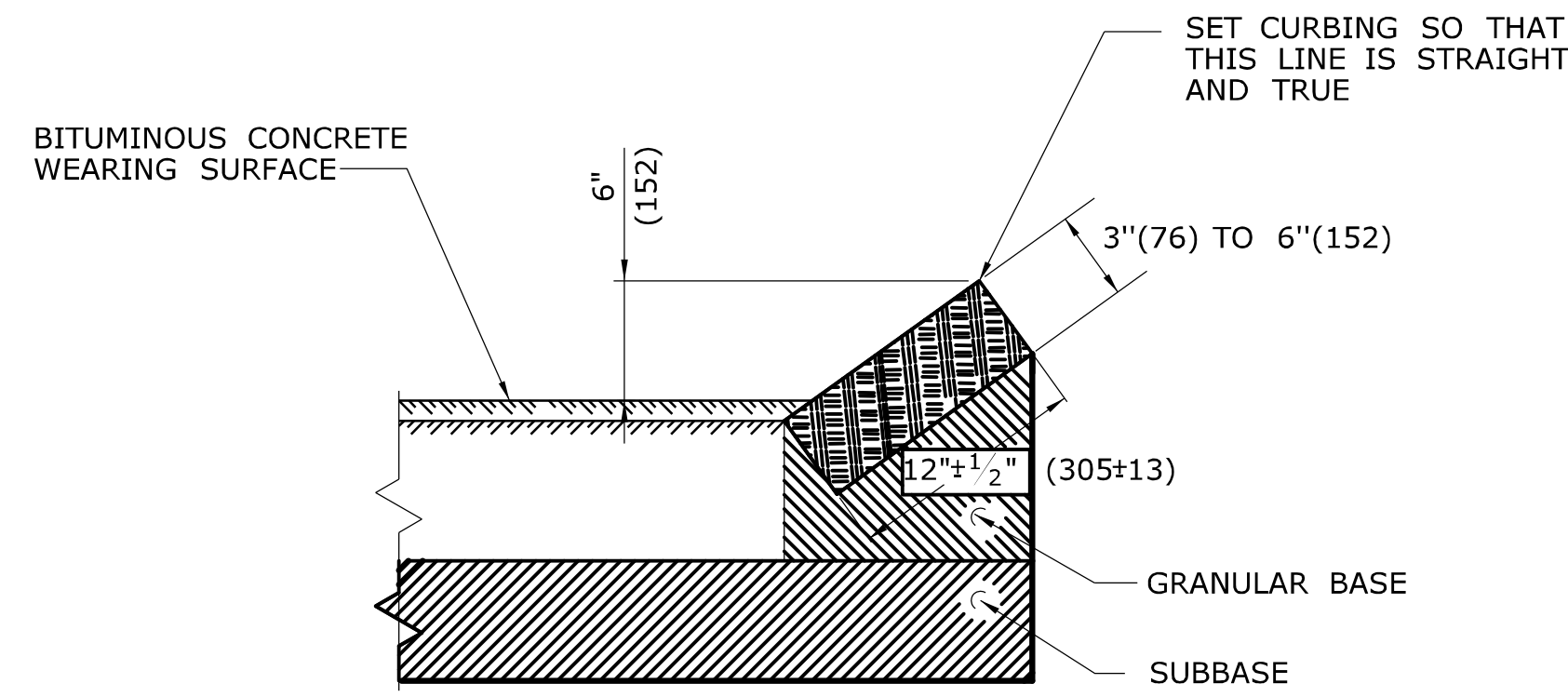
UNDERDRAIN OUTLET DETAILS

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

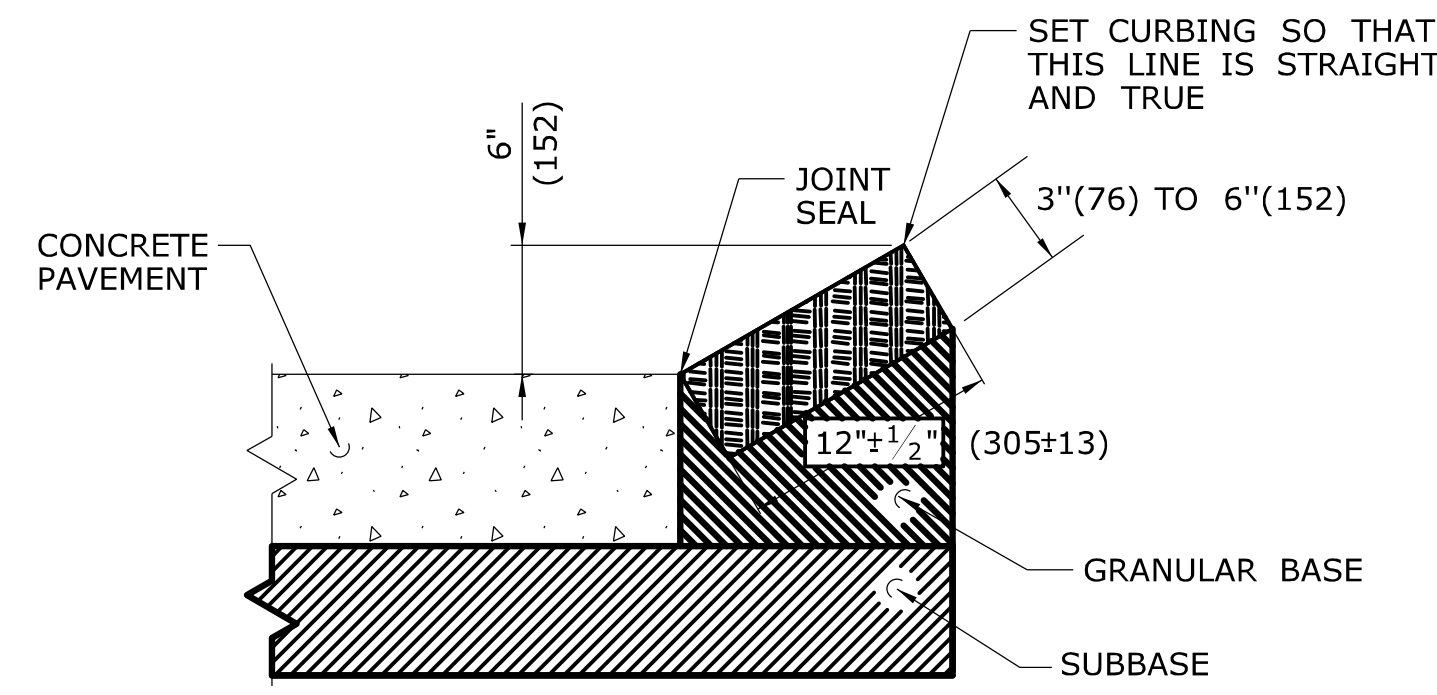
1	6/01/10	REMOVED RODENT SCREEN DETAILS AND REVISED TITLES							
-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	NOT TO SCALE	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SUBMITTED BY: APPROVED BY: NAME/DATE/TIME: James H. Norman 2012.07.12 09:39:25 -04'00'	<p>CTDOT STANDARD SHEET</p> <p>OFFICE OF ENGINEERING</p>	STANDARD SHEET TITLE:	STANDARD SHEET NO.:
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 6/23/2011	Filename: CTDOT_HIGHWAY.STD_JUNE2011.dgn Model: 20 - HW-751_01				UNDERDRAINS AND UNDERDRAIN OUTLETS	HW-751_01

NOTE:

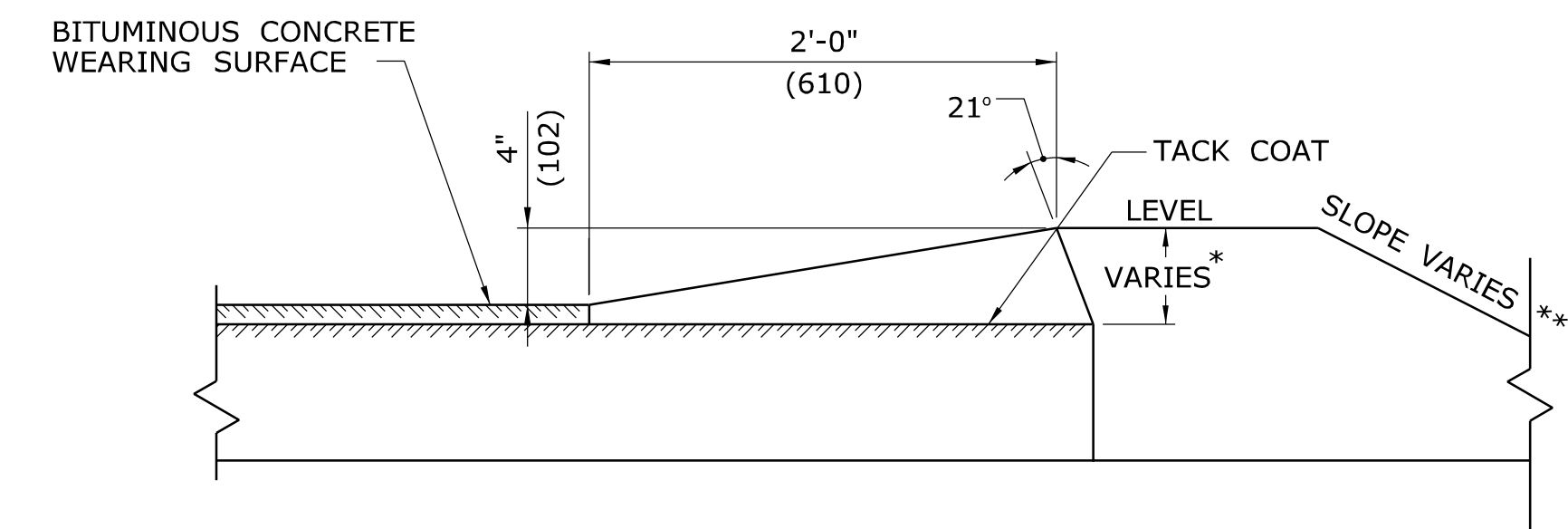
1. ALL CONSTRUCTION DIMENSIONS ARE NOMINAL.



TYPICAL SECTION SHOWING SLOPE CURBING SET ADJACENT TO BITUMINOUS CONCRETE SURFACES



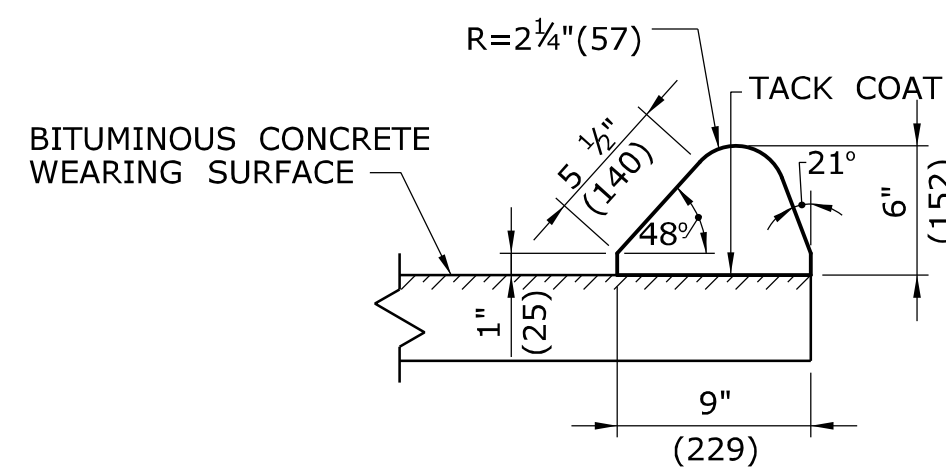
TYPICAL SECTION SHOWING SLOPE CURBING SET ADJACENT TO CONCRETE SURFACES



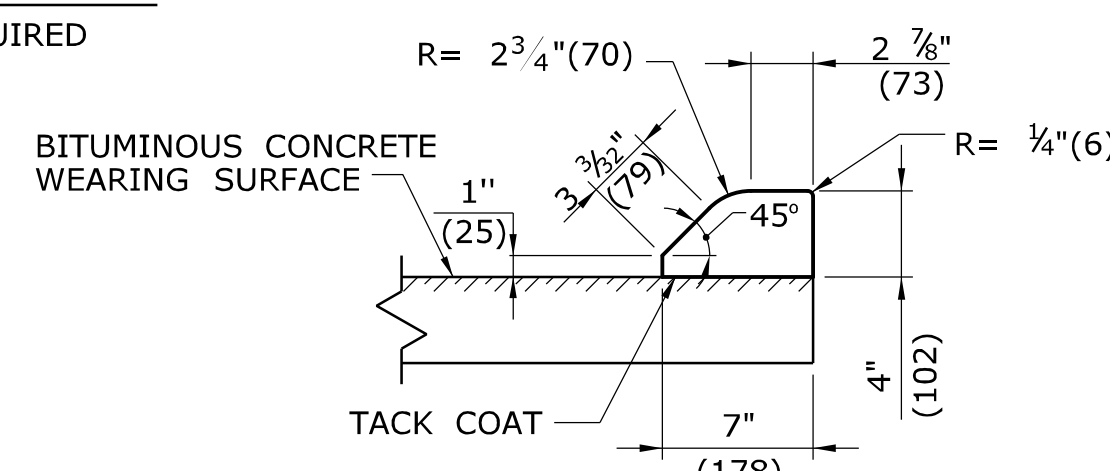
* THIS DIMENSION VARIES WITH THE THICKNESS OF THE TOP COURSE AND SLOPE OF SHOULDER.
 ** SEE TYPICAL SECTIONS FOR PROJECT. IN FILL AREAS 2'(610) LEVEL BEHIND THE CURB IS REQUIRED.

GRANITE SLOPE CURBING

1/2"(13) MORTAR JOINT REQUIRED

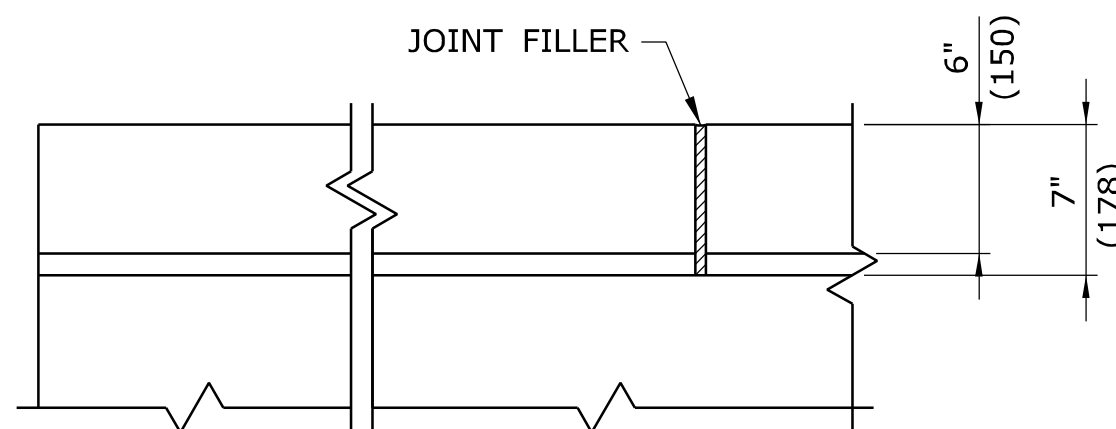


6"(150) BITUMINOUS CONCRETE LIP CURBING

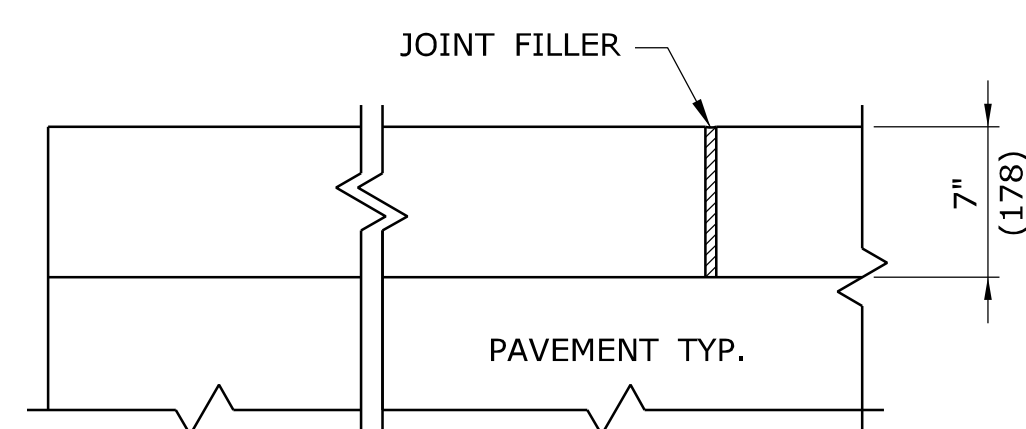


4"(100) BITUMINOUS CONCRETE PARK CURBING

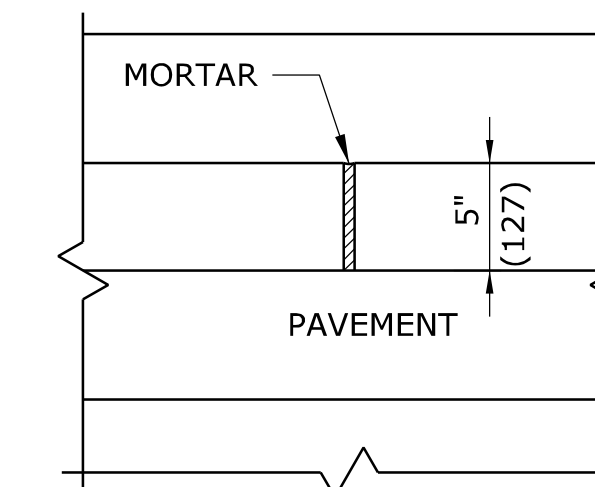
BITUMINOUS CONCRETE BERM



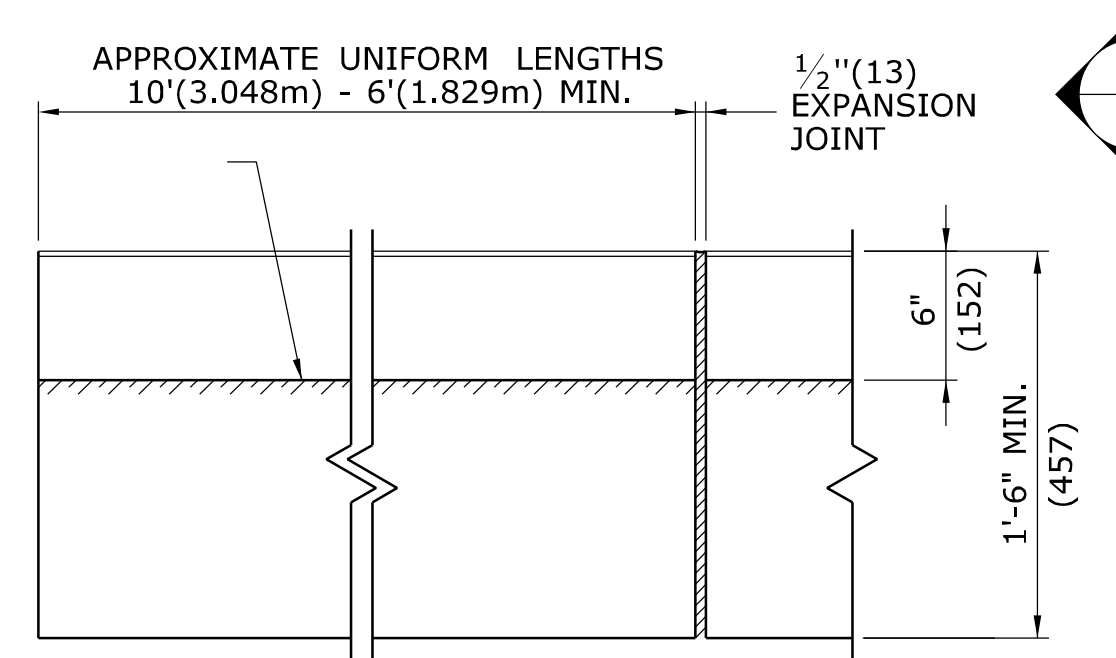
PLAN



PLAN

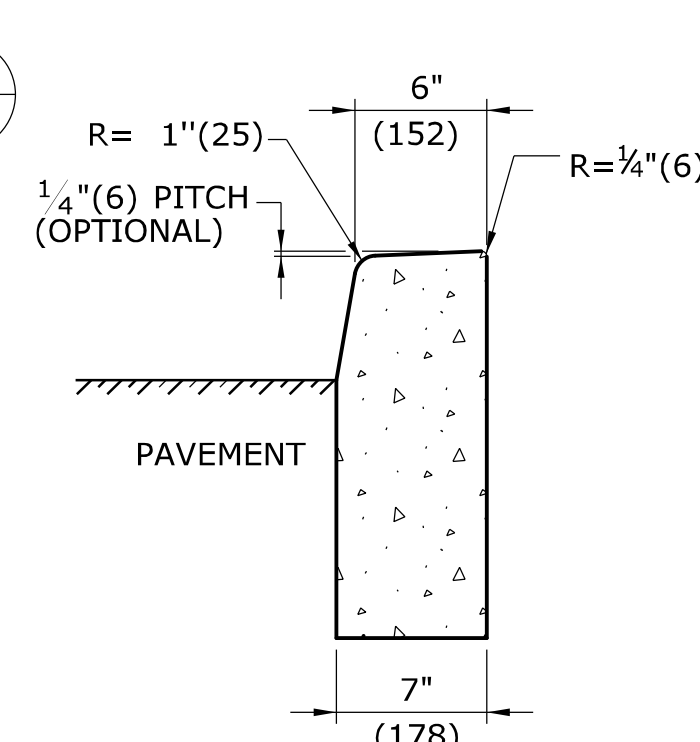


PLAN

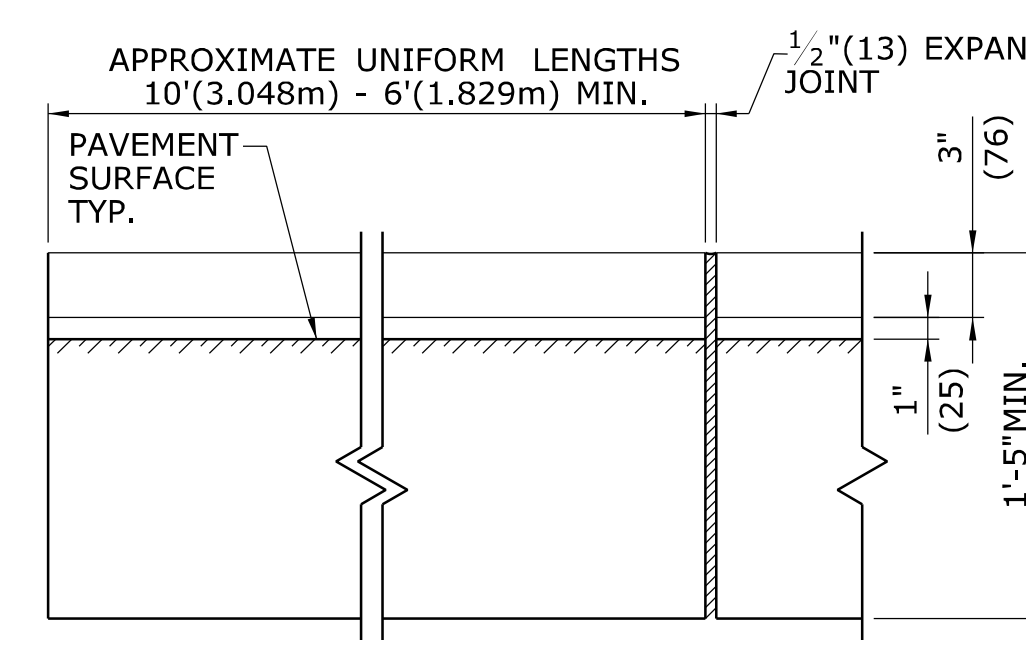


ELEVATION

6" (150) CONCRETE CURBING

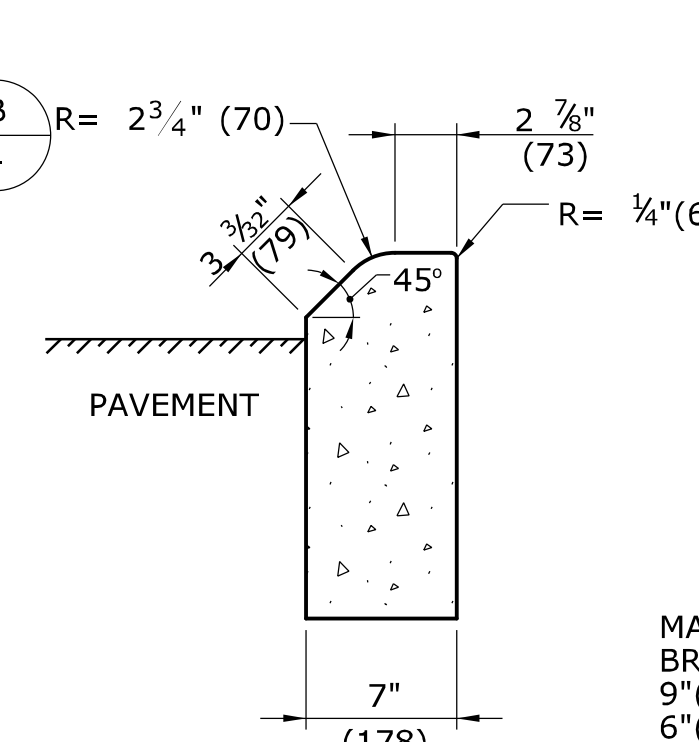


SECTION A

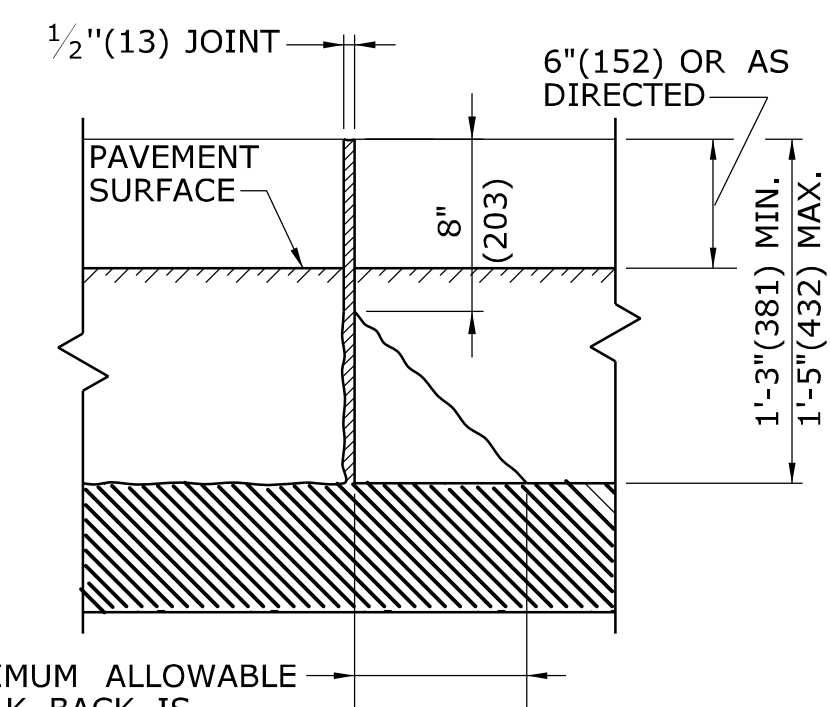


ELEVATION

4"(100) CONCRETE PARK CURBING

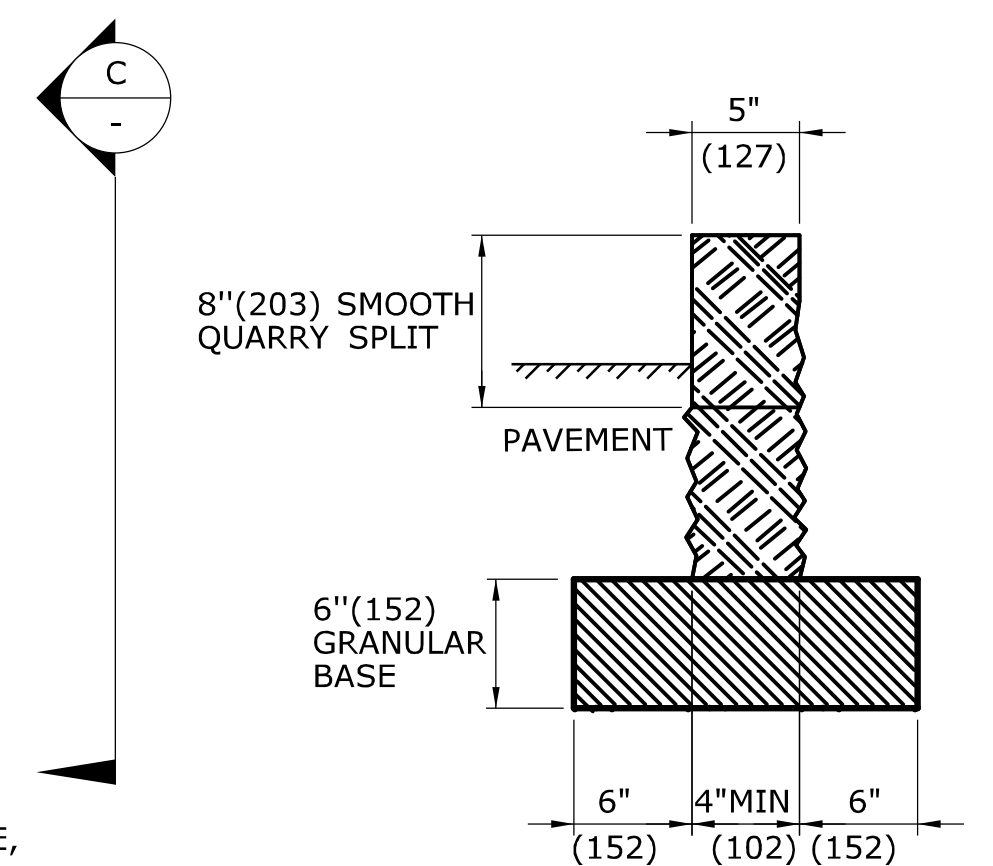


SECTION B



ELEVATION

STONE CURBING



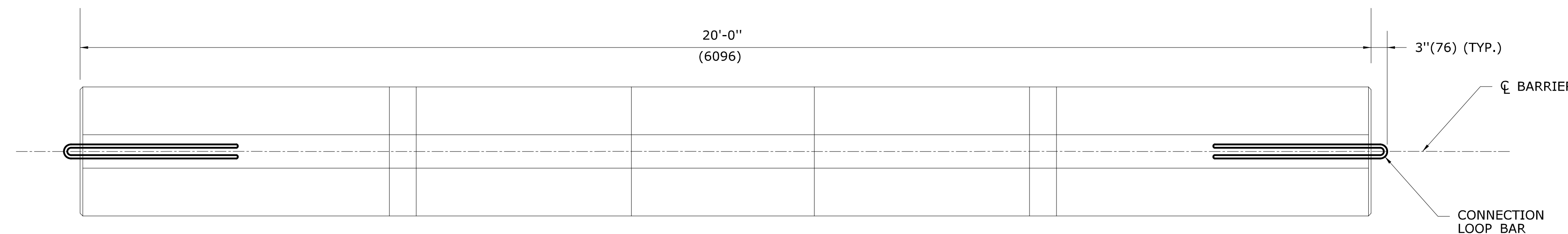
SECTION C

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

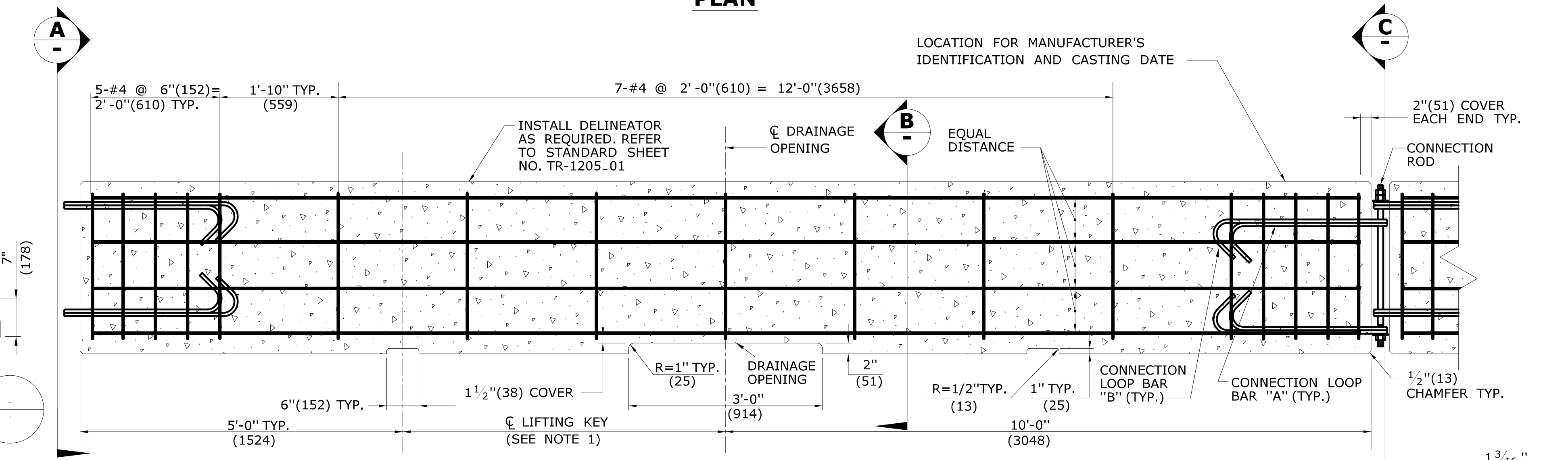
<p>THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.</p>		<p>NOT TO SCALE</p>		<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>		<p>SUBMITTED BY: [Signature] NAME/DATE/TIME: [Name/Date/Time]</p>		<p>CTDOT STANDARD SHEET</p>		<p>STANDARD SHEET TITLE: CURBING</p>		<p>STANDARD SHEET NO.: HW-811_01</p>	
<p>1 6/01/10 REVISED TITLE FOR 6" CONC. CURB</p>		<p>Plotted Date: 6/23/2011</p>		<p>Filename: CTDOT_HIGHWAY_STD_JUNE2011.dgn Model: 22 - HW-811_01</p>		<p>APPROVED BY: [Signature] NAME/DATE/TIME: James H. Norman 2012.07.12 09:40:09 -04'00'</p>		<p>OFFICE OF ENGINEERING</p>					
REV.	DATE	REVISION DESCRIPTION											

GENERAL NOTES:

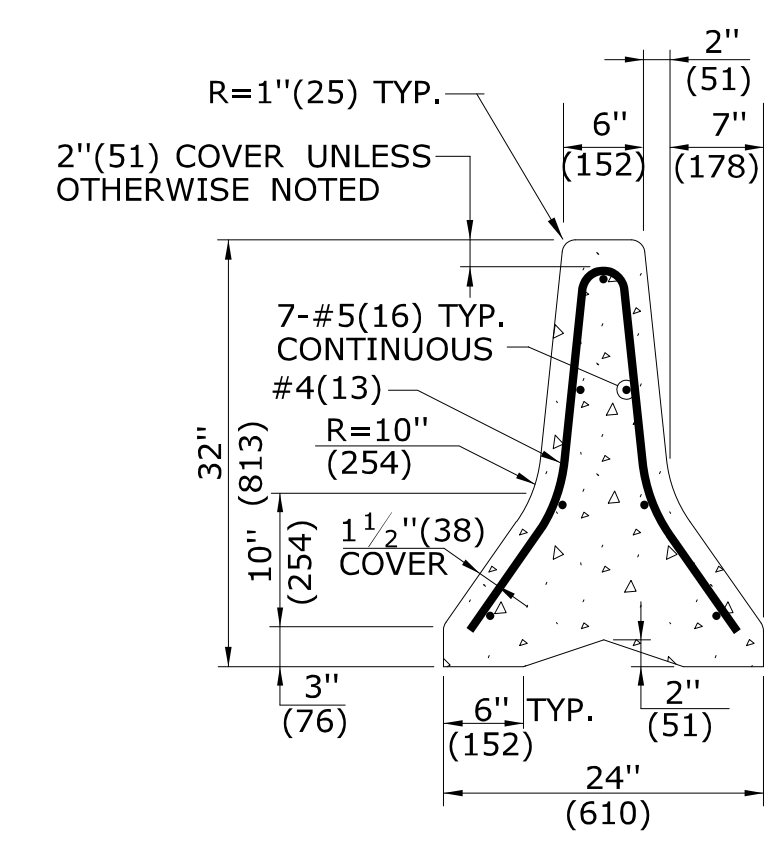
1. ALTERNATE DESIGNS FOR LIFTING KEYS, HOLES OR OTHER HANDLING DEVICES MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. EXPECTED PERMANENT DYNAMIC DEFLECTION IS 3'-6" (1148) BASED ON TL-3 CRASH TESTS WITH 240' (73152) OF TPCBC.



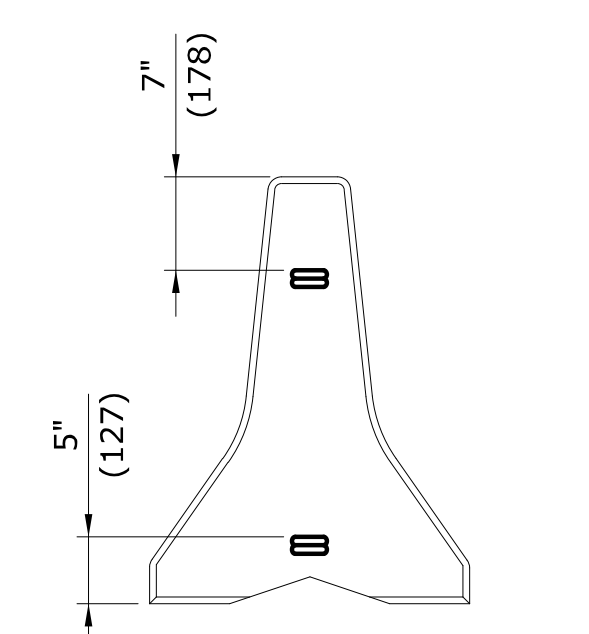
PLAN



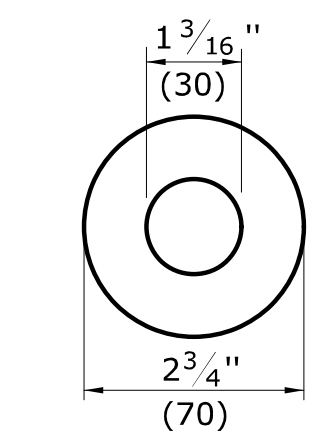
ELEVATION



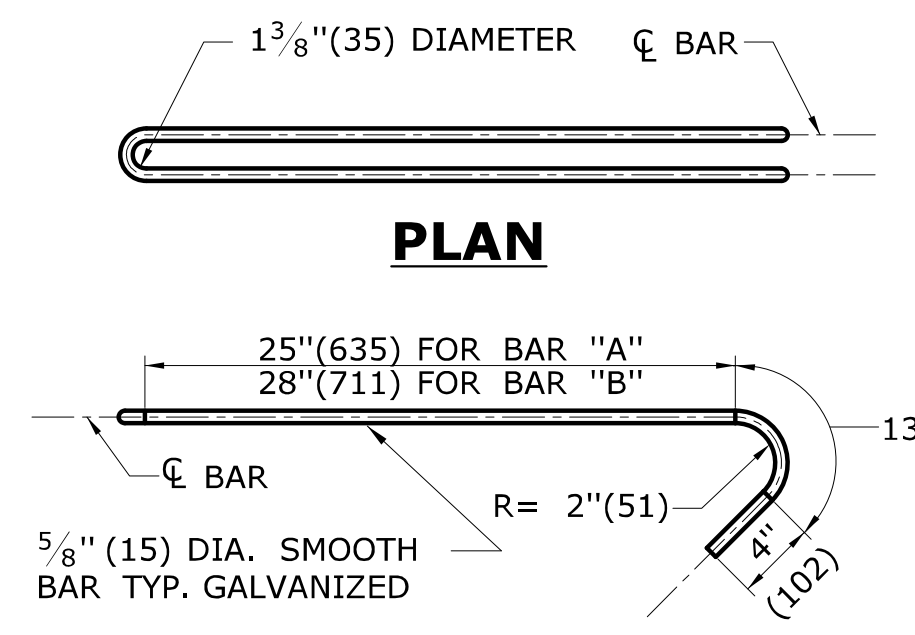
SECTION B



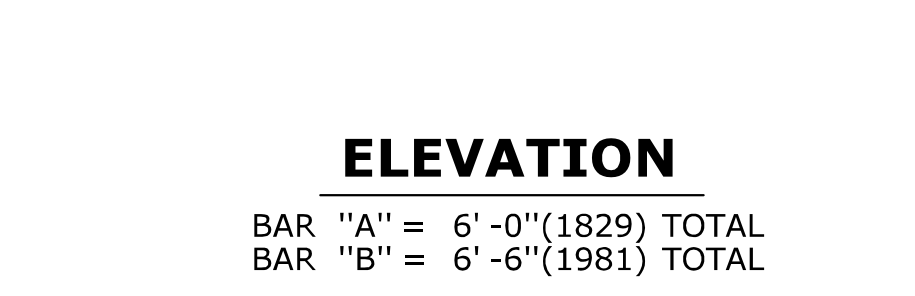
END VIEW C



WASHER DETAIL

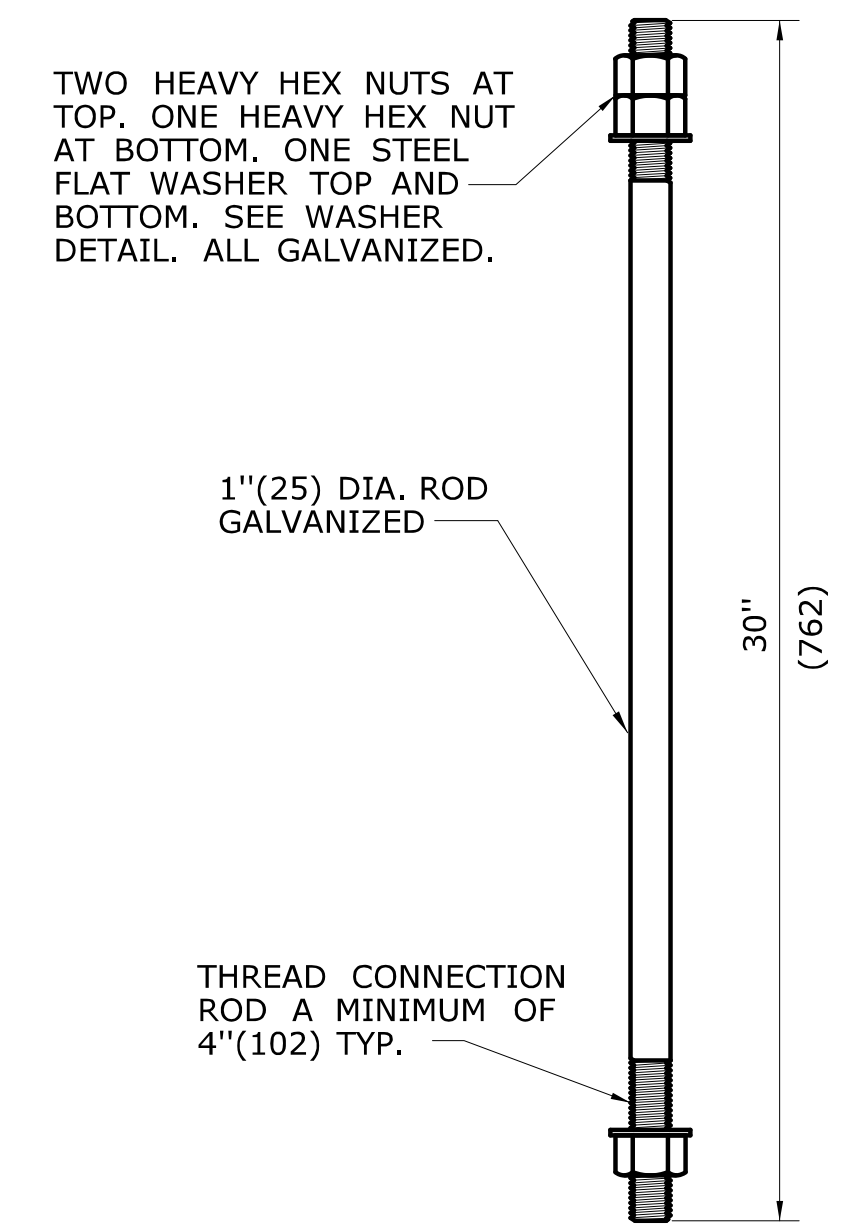


PLAN

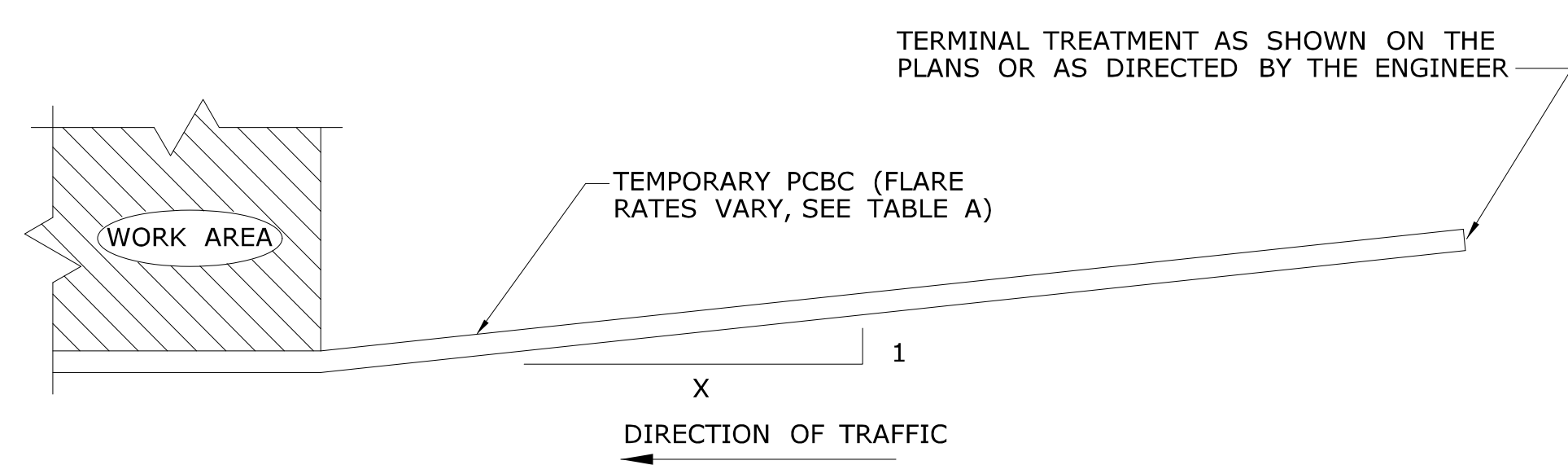


ELEVATION

CONNECTION LOOP BAR



CONNECTION ROD



PLAN - TYPICAL INSTALLATION

TABLE A	
FLARE RATES	
* SPEED	FLARE RATE (X : 1)
≤ 30MPH(48KPH)	4 : 1
> 30MPH(48KPH) < 45MPH(72KPH)	6 : 1
≥ 45MPH(72KPH) NON-LIMITED ACCESS HIGHWAYS	8 : 1
ALL LIMITED ACCESS HIGHWAYS	10 : 1

* DESIGN SPEED THROUGH THE WORK AREA.

NOT TO SCALE



APPROVED BY: James H. Norman
2013.07.24 14:48:34-04'00'

CTDOT STANDARD SHEET
OFFICE OF ENGINEERING

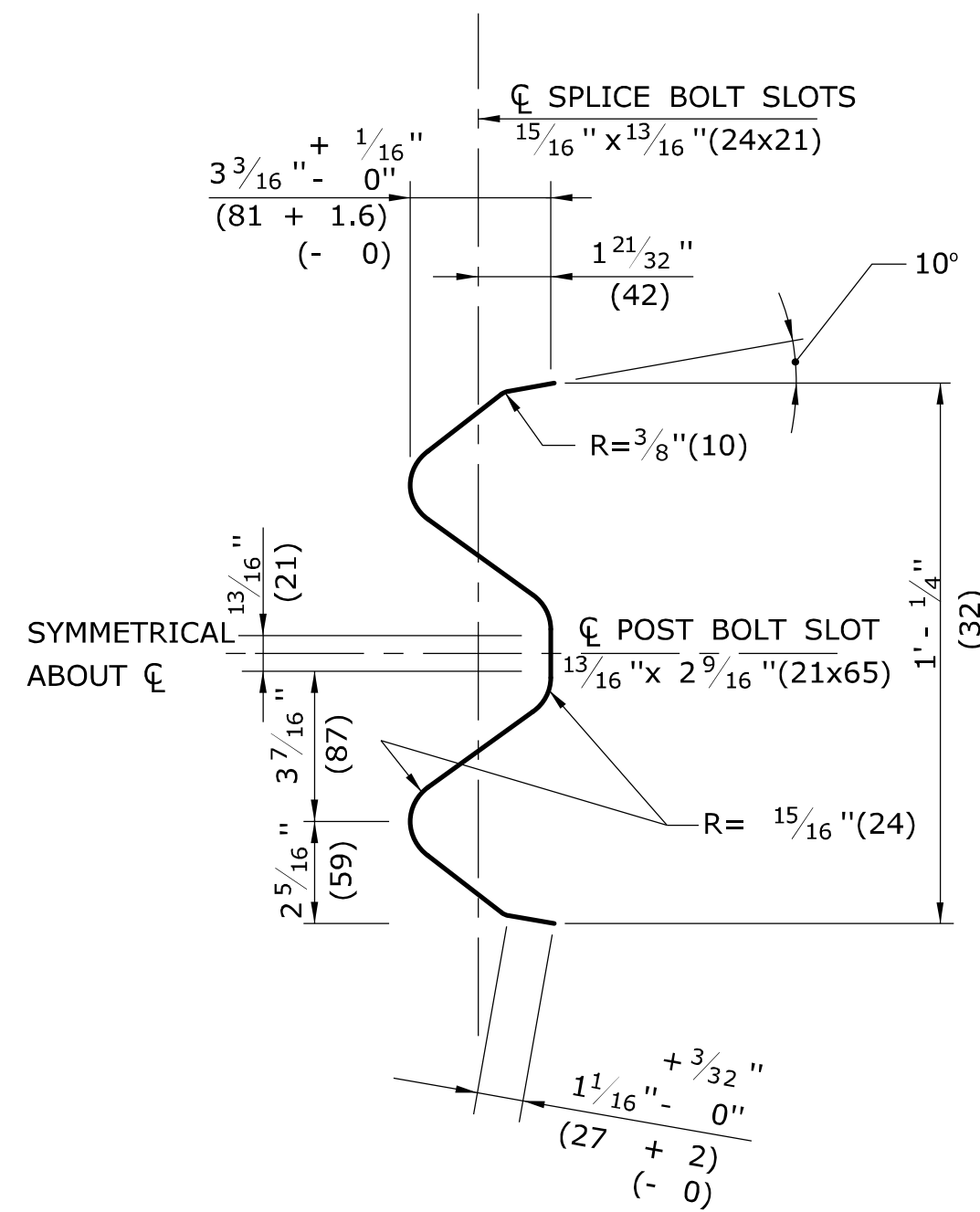
TEMPORARY PRECAST CONCRETE BARRIER CURB

HW-822_01

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

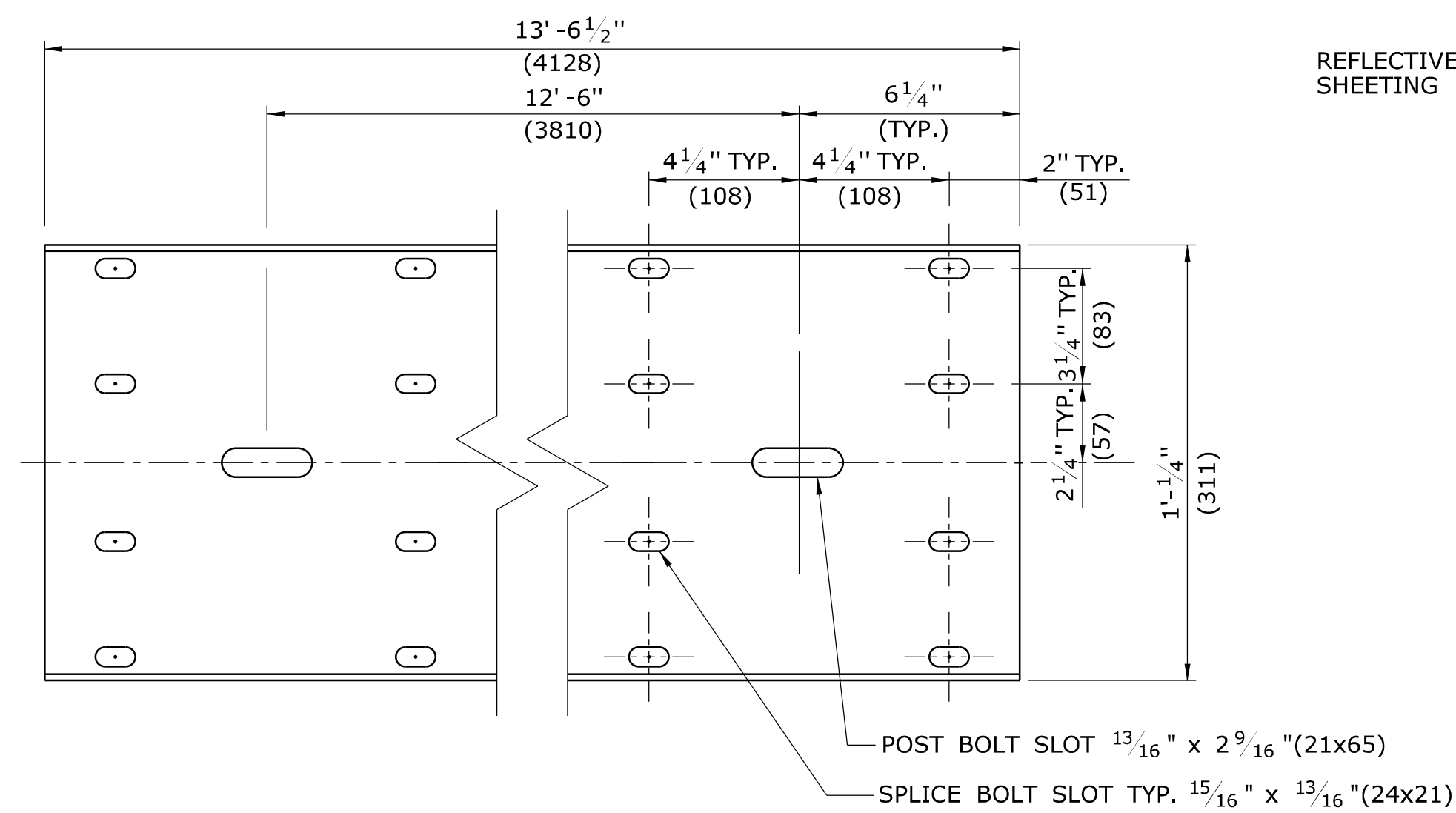
1	3/12	REVISE SLOPE NOTE & DETAIL NOTE	-
2	7/13	ERRATA	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

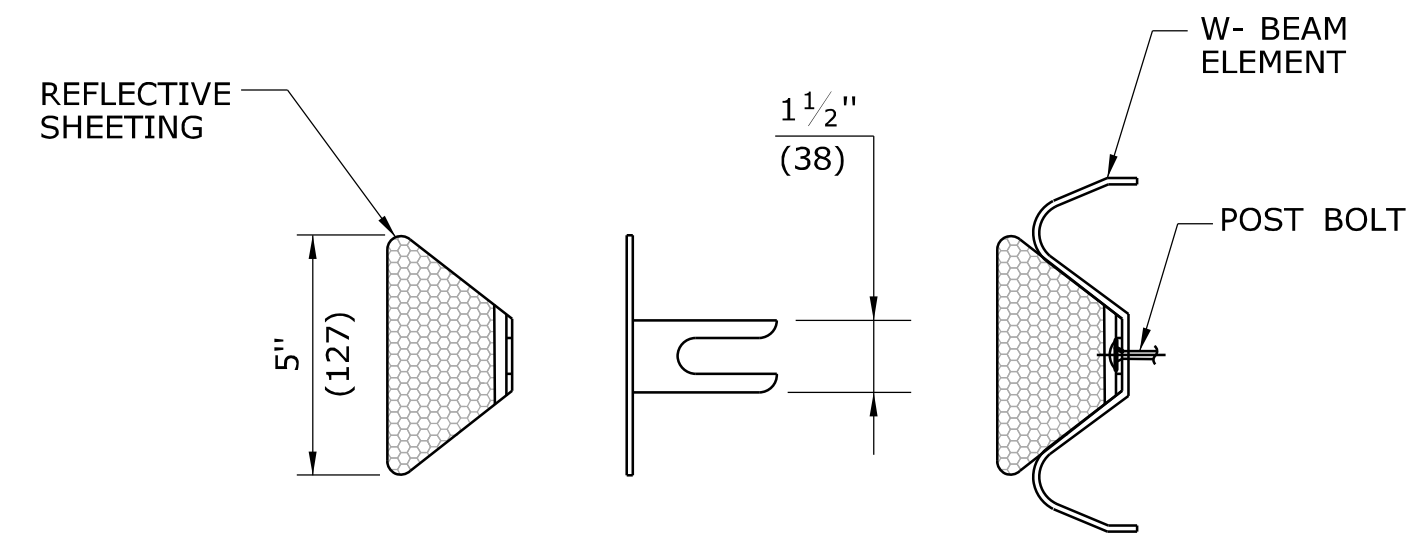


**SELECTION THRU RAIL ELEMENT
END VIEW**

NOTE: ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES



**TYPICAL W-BEAM RAIL ELEMENT
CLASS A, TYPE II**



DELINEATOR DETAIL

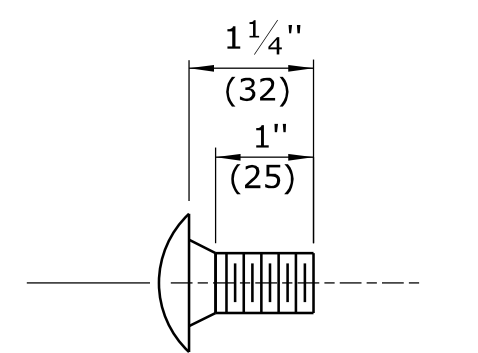
GENERAL NOTES:

1. NEW R-B 350 GUIDERAIL INCLUDING SYSTEMS, ANCHORS AND TRANSITIONS INSTALLED ON EXPRESSWAYS AND RAMPS SHALL USE CLASS B TYPE II (10 GAUGE) W-BEAM RAIL ELEMENTS.
2. W6x9 (W150x14) POSTS MAY BE USED IN PLACE OF W6 x 8.5(W150x13) POSTS.
3. W8x13 (W200x19) POSTS, 7'-6"(2286) LONG, ARE USED WITH TRANSITIONS TO VERTICAL OR SAFETY SHAPE PARAPETS (POSTS 1 AND 2) AND SYSTEM 6.
4. W6x8.5 (W150x13) POSTS, 6'-0"(1829) LONG, ARE USED WITH TRANSITIONS TO VERTICAL OR SAFETY SHAPE PARAPETS (POSTS 3 THROUGH 6), MD-B 350, SYSTEM 5 & 5A, AND STANDARD R-B 350 GUIDERAIL.

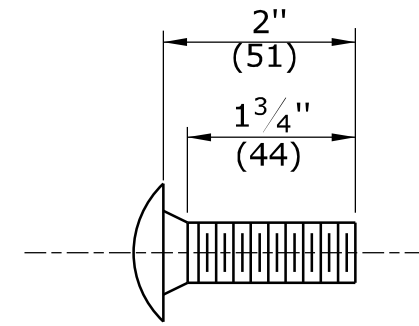
DELINEATOR NOTES:

1. DELINEATORS SHALL BE FORMED OF .080 POLY-CARBONATE OR .080 SHEET ALUMINUM IN ACCORDANCE WITH M.18.13.
2. REFLECTIVE SHEETING SHALL CONFORM TO M.18.09.2.
3. DELINEATORS SHALL BE INSTALLED ON THE POST CLOSEST TO THE DESIGNATED SPACING.
4. REFLECTIVE SHEETING SHALL BE WHITE EXCEPT ON THE LEFT SIDE OF DIVIDED STREETS, HIGHWAYS, RAMPS, AND ONE WAY ROADS IN THE DIRECTION OF TRAVEL WHERE IT SHALL BE YELLOW.
5. INSTALL DELINEATORS ON RAIL THAT IS PARALLEL TO AND NOT GREATER THAN 6'(1829) FROM THE EDGE OF THE ROADWAY. A MINIMUM OF THREE DELINEATORS MUST BE INSTALLED ON ANY RUN OF RAIL.

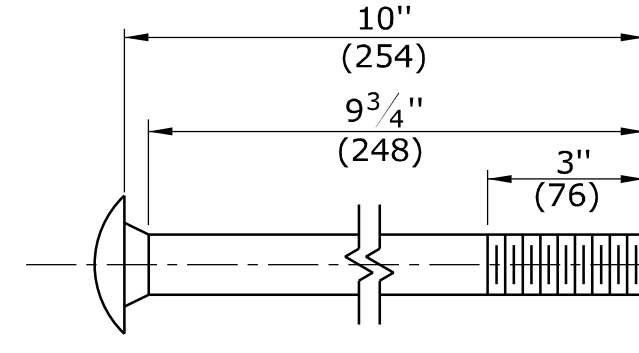
DELINEATOR SPACING:
 RADIUS ≥ 300'(91440) - SPACE EVERY 50'(15.24m)
 RADIUS < 300'(91440) - SPACE EVERY 25'(7.62m)



**W-BEAM SPLICE
BOLT DETAIL**

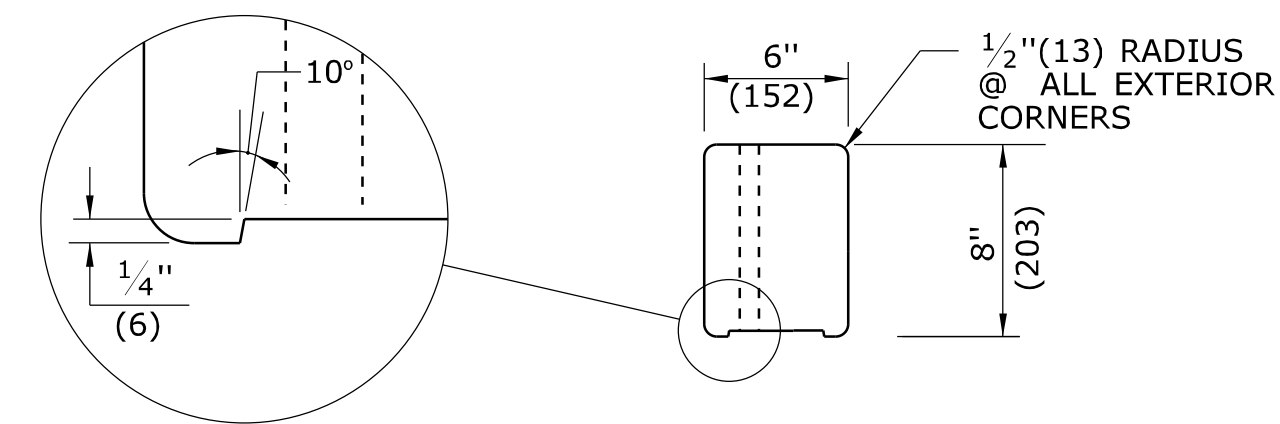


**POST BOLT DETAIL
FOR R-B 350
SYSTEM 6 RUBRAIL**

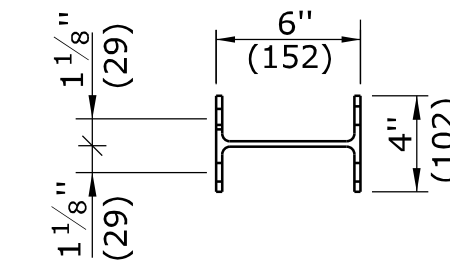


**POST BOLT DETAIL FOR R-B 350
AND MD-B 350 GUIDERAIL**

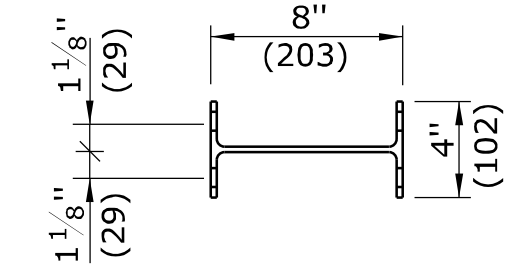
(UNTHREADED PORTION NOT TO EXCEED 6 3/4"(171))



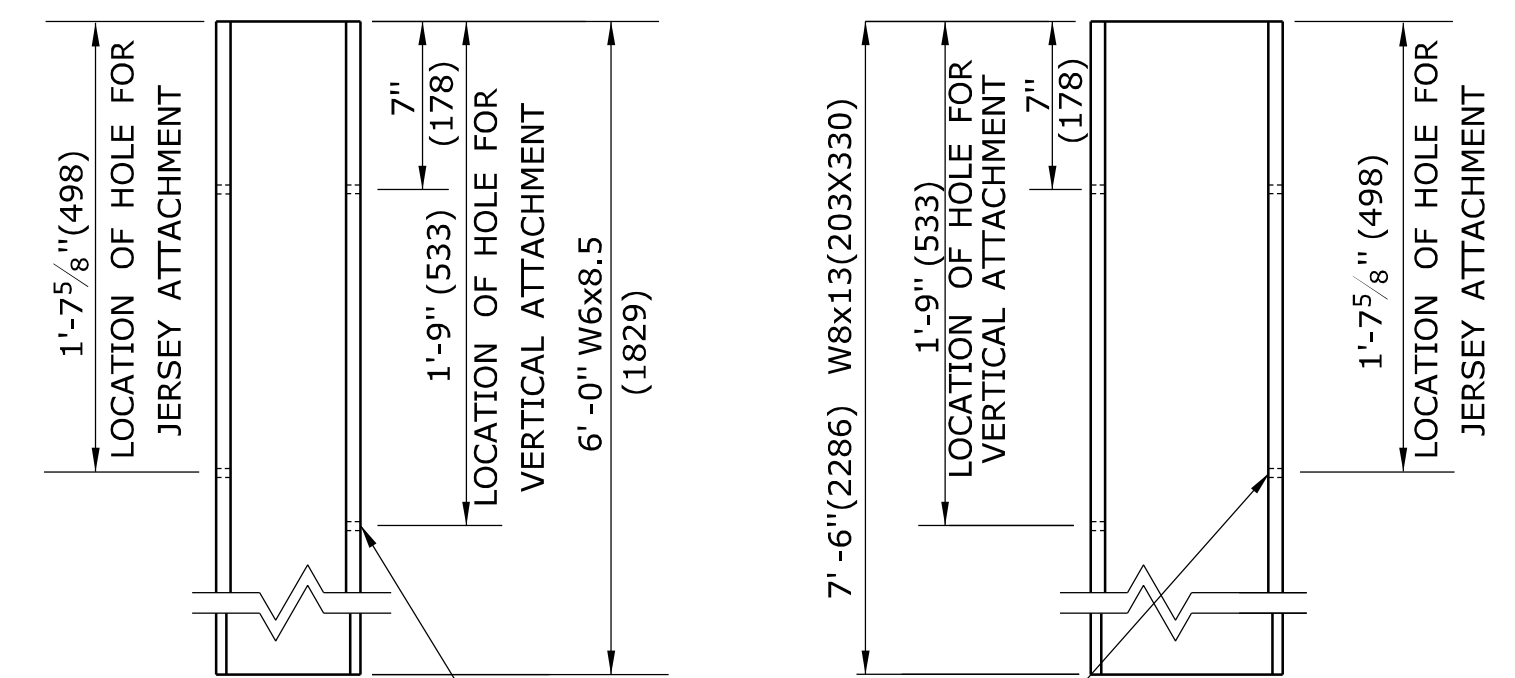
PLAN



**W6x8.5 POST
(W150x13)
6'-0"(1829) LONG**

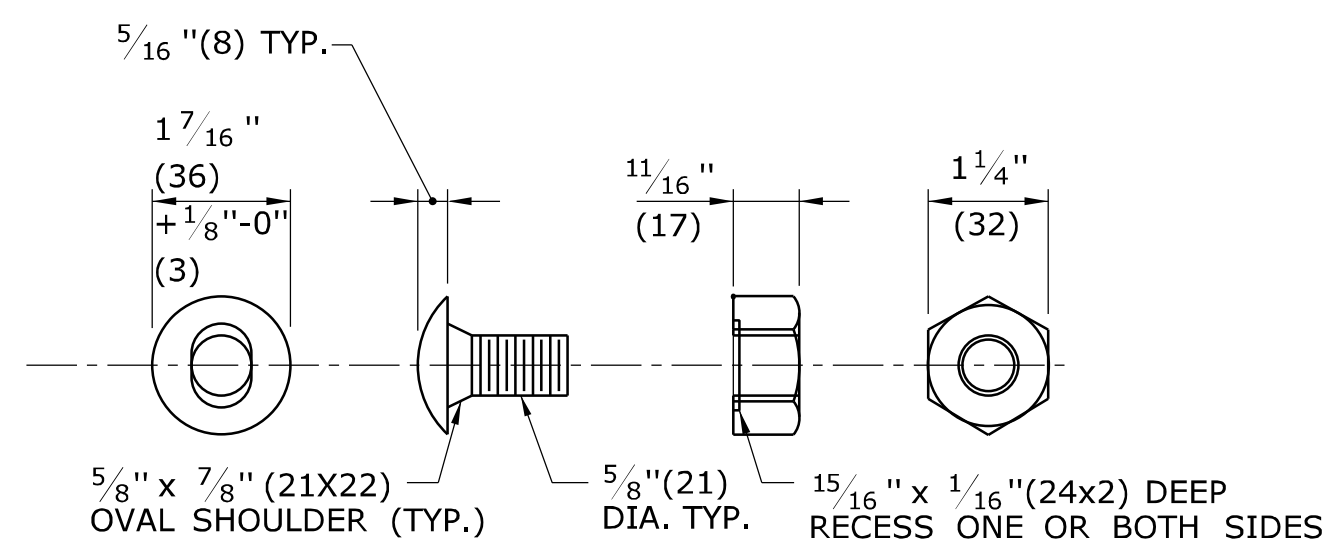


**W8x13 POST
(W200x19)
7'-6"(2286) LONG**



**BOLT HOLE LAYOUT FOR W8x13(W200x19)
AND W6x8.5 (W150x13) UNIFORM POST**

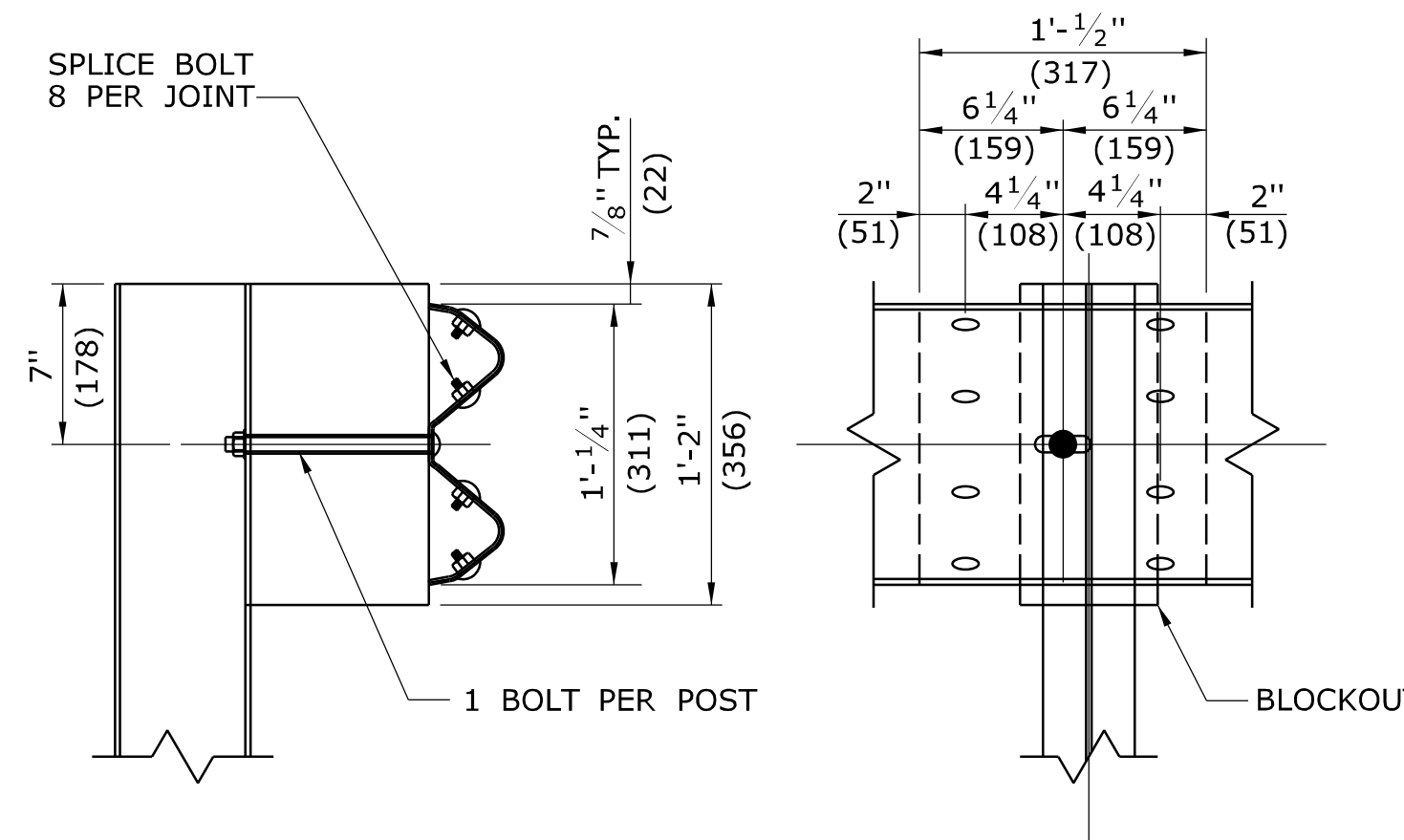
(REFER TO GENERAL NOTES)



BUTTONHEAD BOLT

HEX NUT

NOTE: AFTER GALVANIZING, THE NUT SHALL BE FREE RUNNING ON THE BOLT. DIAMETER SHOWN IS TYPICAL FOR ALL GUIDERAIL BOLTS. SEE DETAILS ABOVE FOR SPECIFIC LENGTHS.

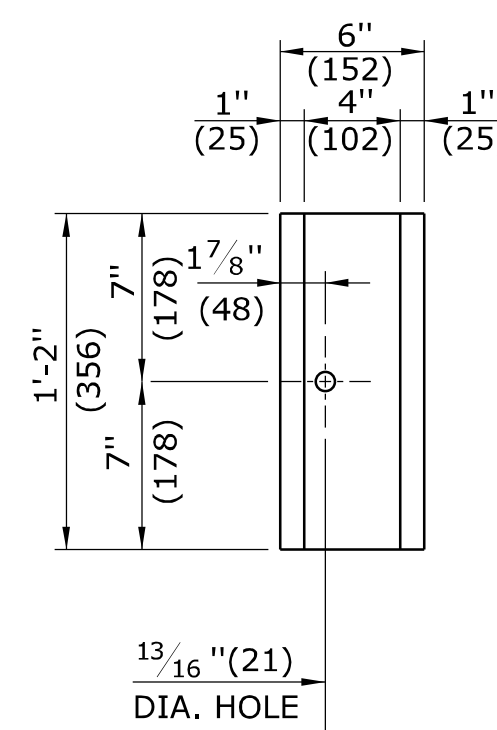


SECTION

ELEVATION

LAP DETAIL

NOTE:
LAP RAIL SECTION IN DIRECTION OF TRAFFIC



**ELEVATION
R-B 350 PLASTIC
BLOCKOUT DETAIL**

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

REV.	DATE	REVISION DESCRIPTION
1	6/11	REMOVE WEATHERING STEEL NOTES
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

NOT TO SCALE

STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION

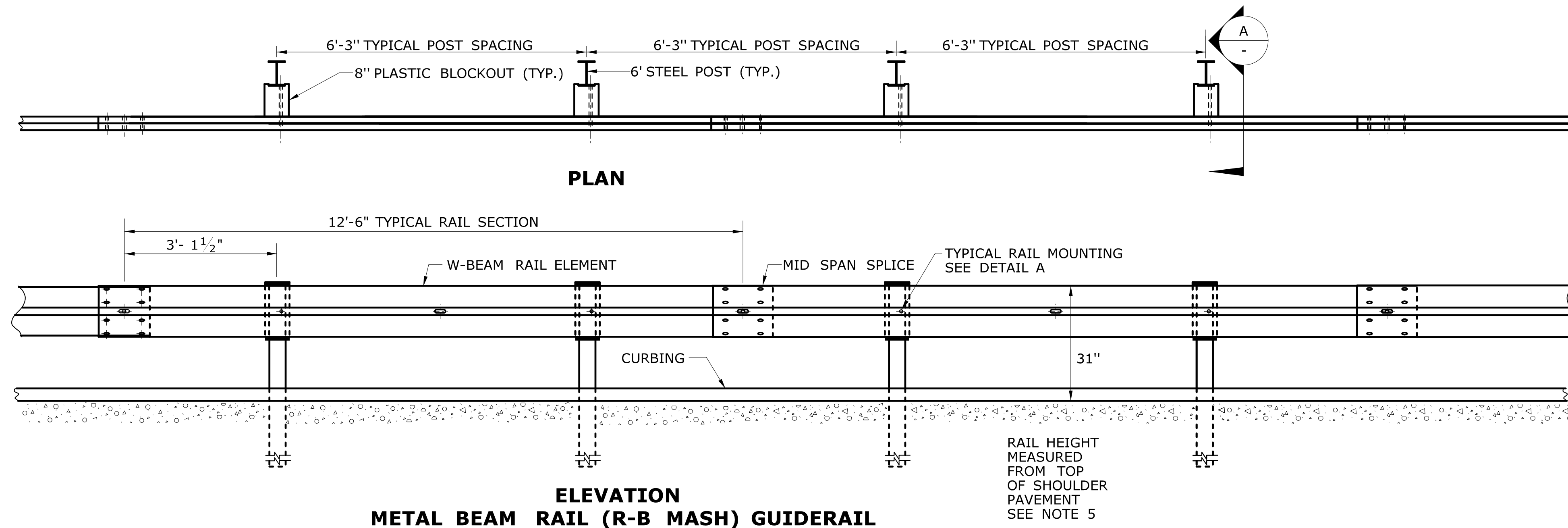
Plotted Date: 5/10/2011

SUBMITTED BY: NAME/DATE/TIME:
 APPROVED BY: NAME/DATE/TIME:
 James H. Norman
 2011.06.09 15:12:16 -04'00'

CTDOT
 STANDARD SHEET
 OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
**W-BEAM METAL
 BEAM RAIL HARDWARE**

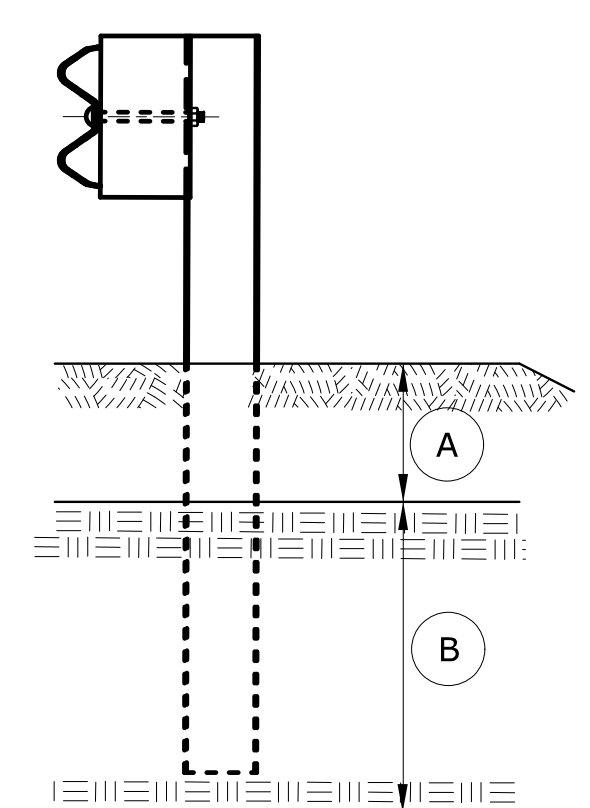
STANDARD SHEET NO.:
HW-910_01



**ELEVATION
METAL BEAM RAIL (R-B MASH) GUIDERAIL**

GENERAL NOTES:

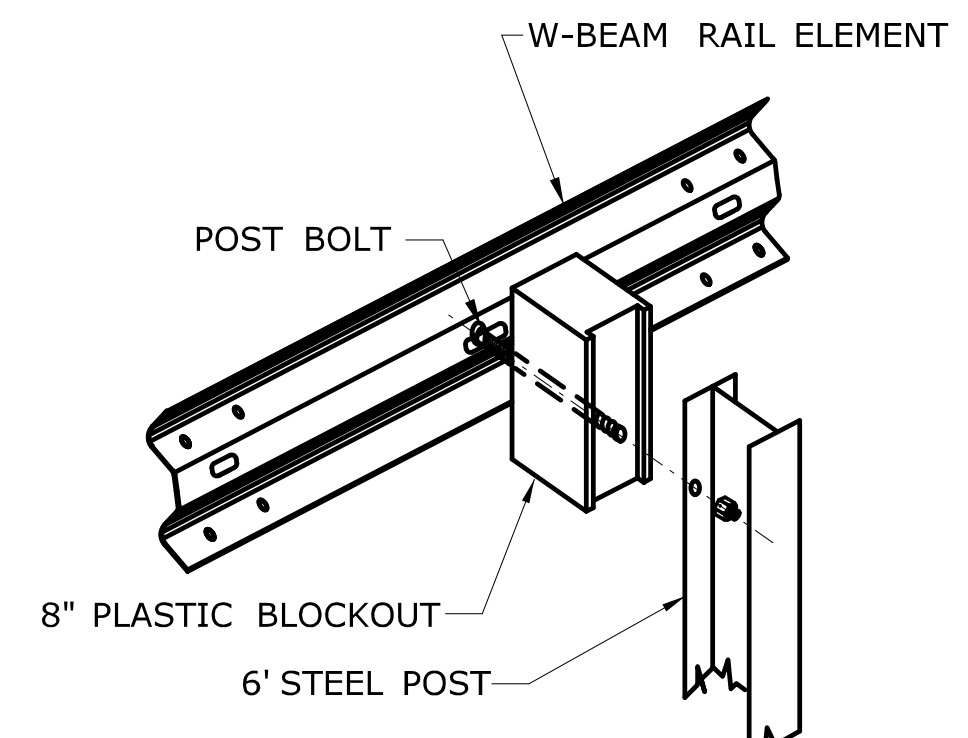
1. SEE SHEET HW-910.20 FOR MASH W-BEAM HARDWARE AND W-BEAM DELINEATOR DETAILS.
2. THREE BLOCKOUTS MAY BE USED FOR ONE POST ONLY. TWO BLOCKOUTS MAY BE USED FOR A SERIES OF POSTS. THE COST OF ADDITIONAL BLOCKOUTS AND LONGER BOLTS SHALL BE INCLUDED IN THE PRICE PER FOOT OF GUIDERAIL. EXTRA BLOCKOUTS AT TRANSITIONS TO BRIDGE PARAPETS SHOULD BE AVOIDED. DO NOT USE ADDITIONAL BLOCKS IF IT CAUSES THE POST TO BE DRIVEN BEYOND AN EMBANKMENT HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.
3. IF BLOCKOUTS DO NOT AVOID POST FROM OBSTRUCTION, ONE POST MAY BE OMITTED IF 50 FEET OF GUIDERAIL EXISTS ON BOTH SIDES OF LOCATION. USE METAL BEAM RAIL SPAN SECTION TYPE II OR III FOR MORE THAN ONE CONSECUTIVE OMITTED POST, SEE SHEET HW-910.24.
4. W-BEAM GUIDERAIL MAY BE PLACED 1' OR MORE FROM THE EDGE OF PAVEMENT ONLY ON SLOPES 10:1 OR FLATTER AND WITHOUT CURBING.
5. IF THE RAIL IS INSTALLED WITHIN 2' OF THE EDGE OF PAVEMENT, THE RAIL HEIGHT IS MEASURED FROM THE SHOULDER SLOPE EXTENDED TO THE RAIL. IF THE RAIL IS INSTALLED BEYOND 2' FROM THE EDGE OF PAVEMENT, THE RAIL HEIGHT IS MEASURED FROM THE GROUND DIRECTLY BELOW THE RAIL.
6. RAIL HEIGHT CONSTRUCTION TOLERANCE IS +/- 1 INCH.



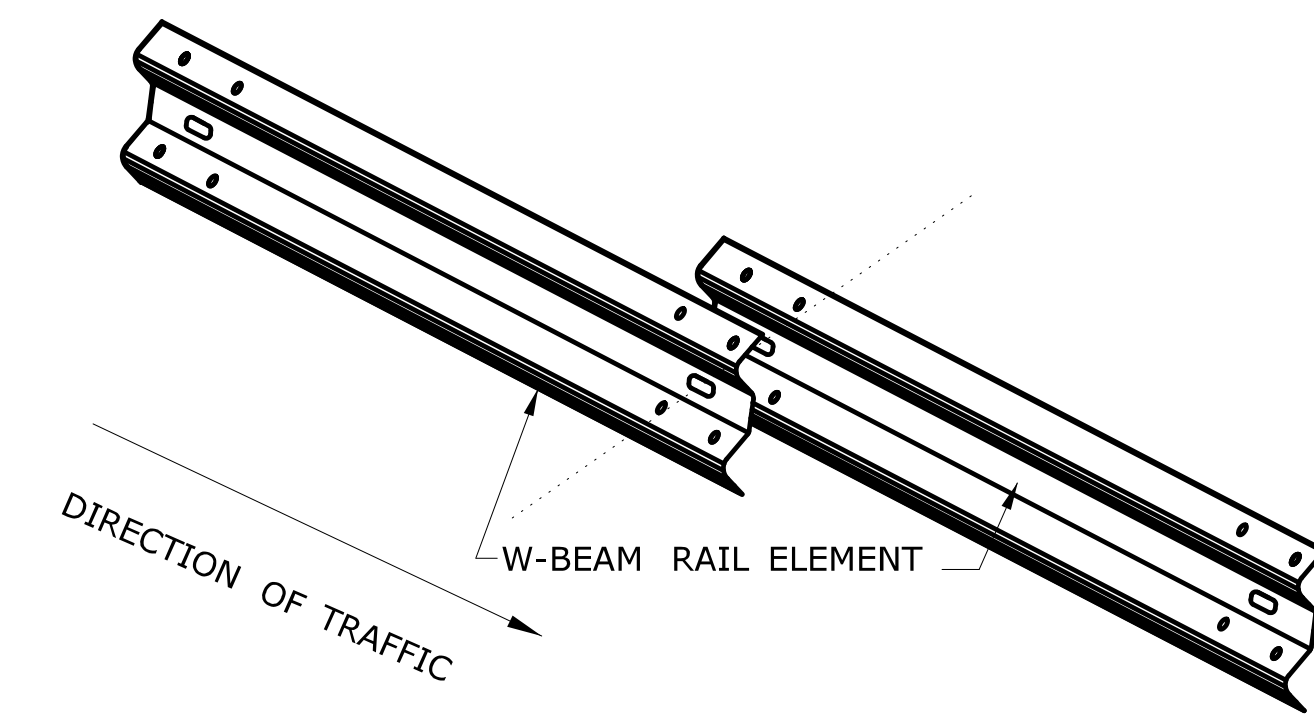
ELEVATION

CONDITION 1 :
IF SOIL DEPTH IS \leq 18" DEEP (A)
DRILL 20" DIA. HOLE 24" INTO LEDGE (B)

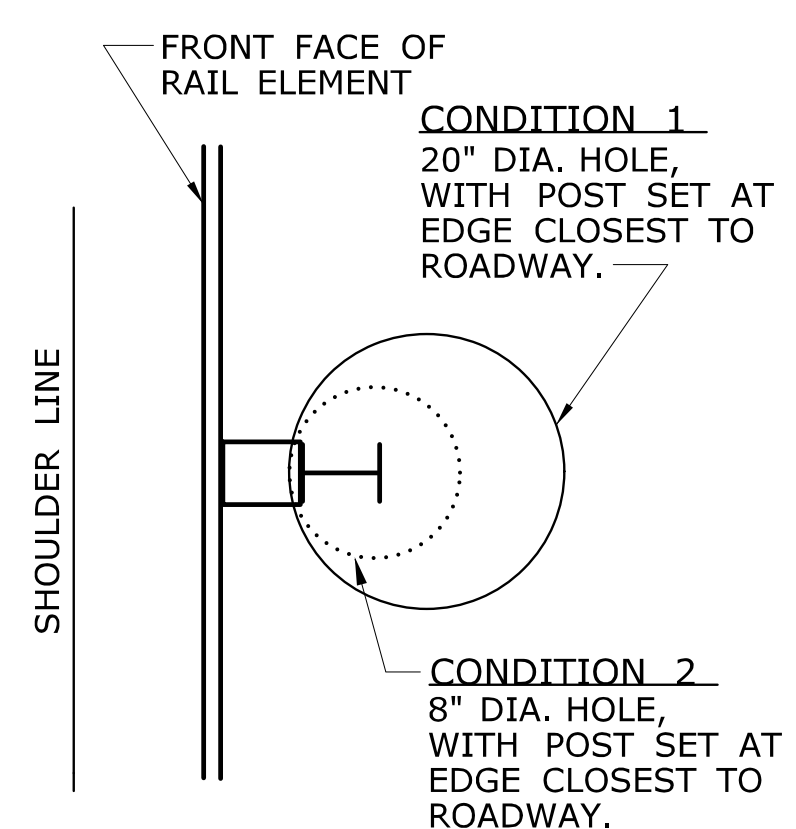
CONDITION 2 :
IF SOIL DEPTH IS $>$ 18" DEEP (A)
DRILL 8" DIA. HOLE 12" INTO LEDGE (B) OR TO THE DEPTH OF FULL EMBEDMENT WHICHEVER IS LESS.



**DETAIL A
RAIL MOUNTING**

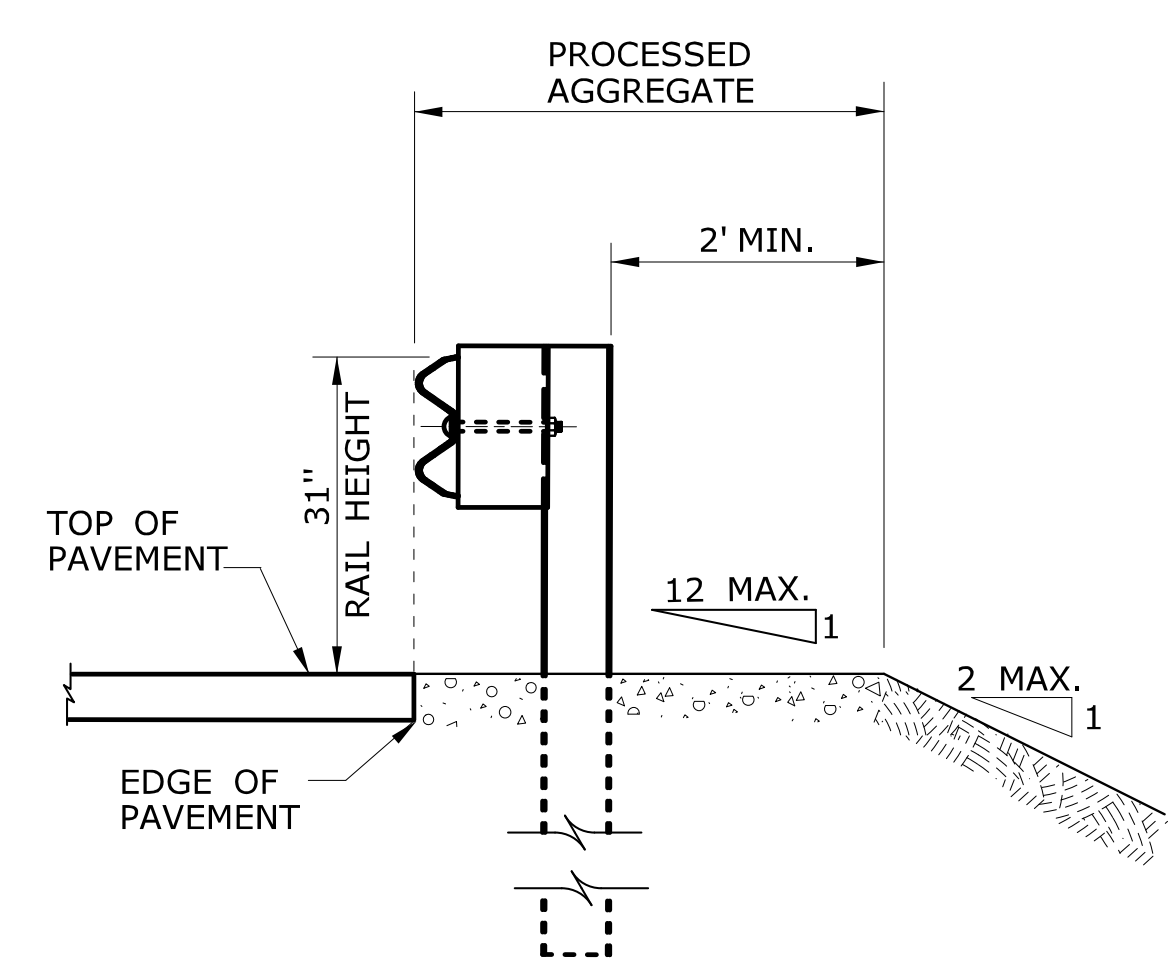


LAP W-BEAM RAIL SECTIONS
NOTE: EIGHT (8) SPLICE BOLTS PER JOINT



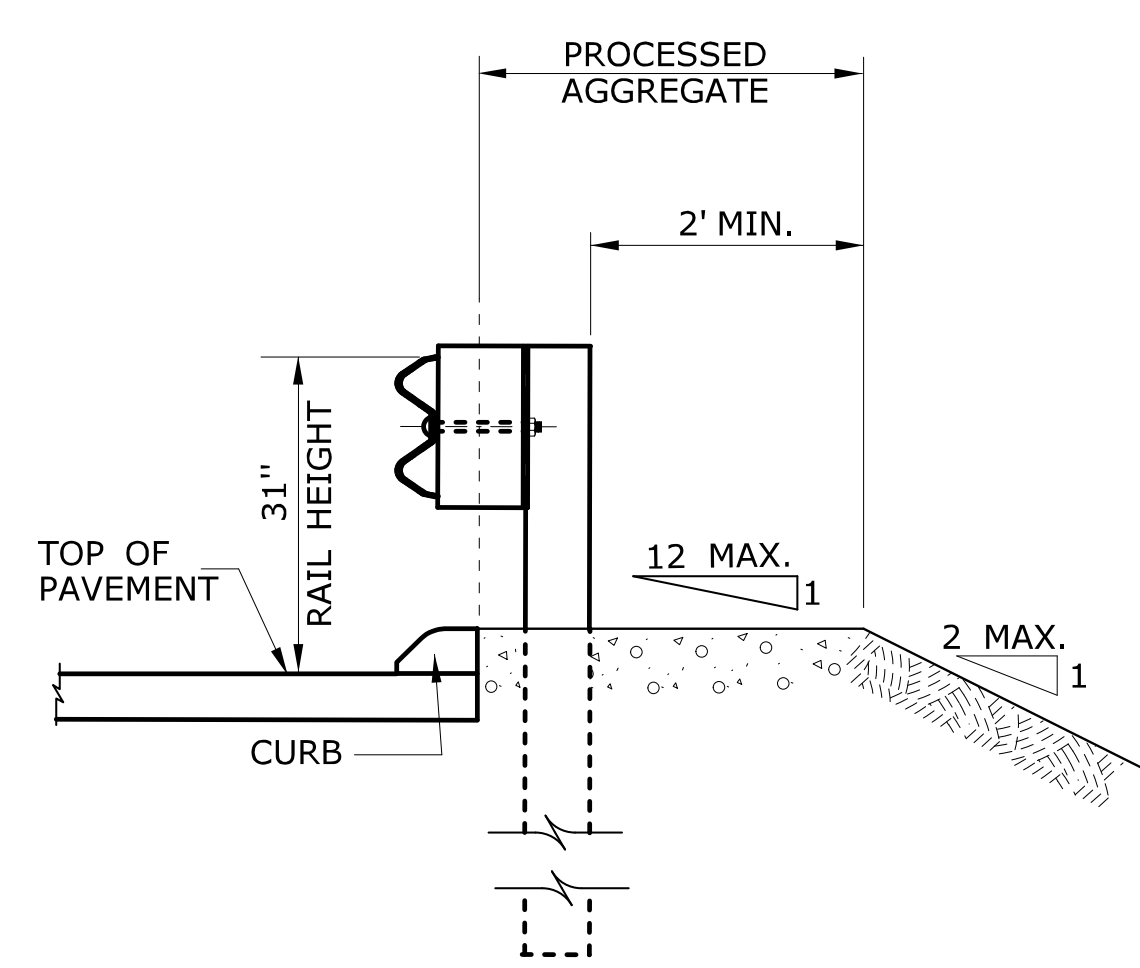
PLAN

GUIDERAIL POSTS IN ROCK



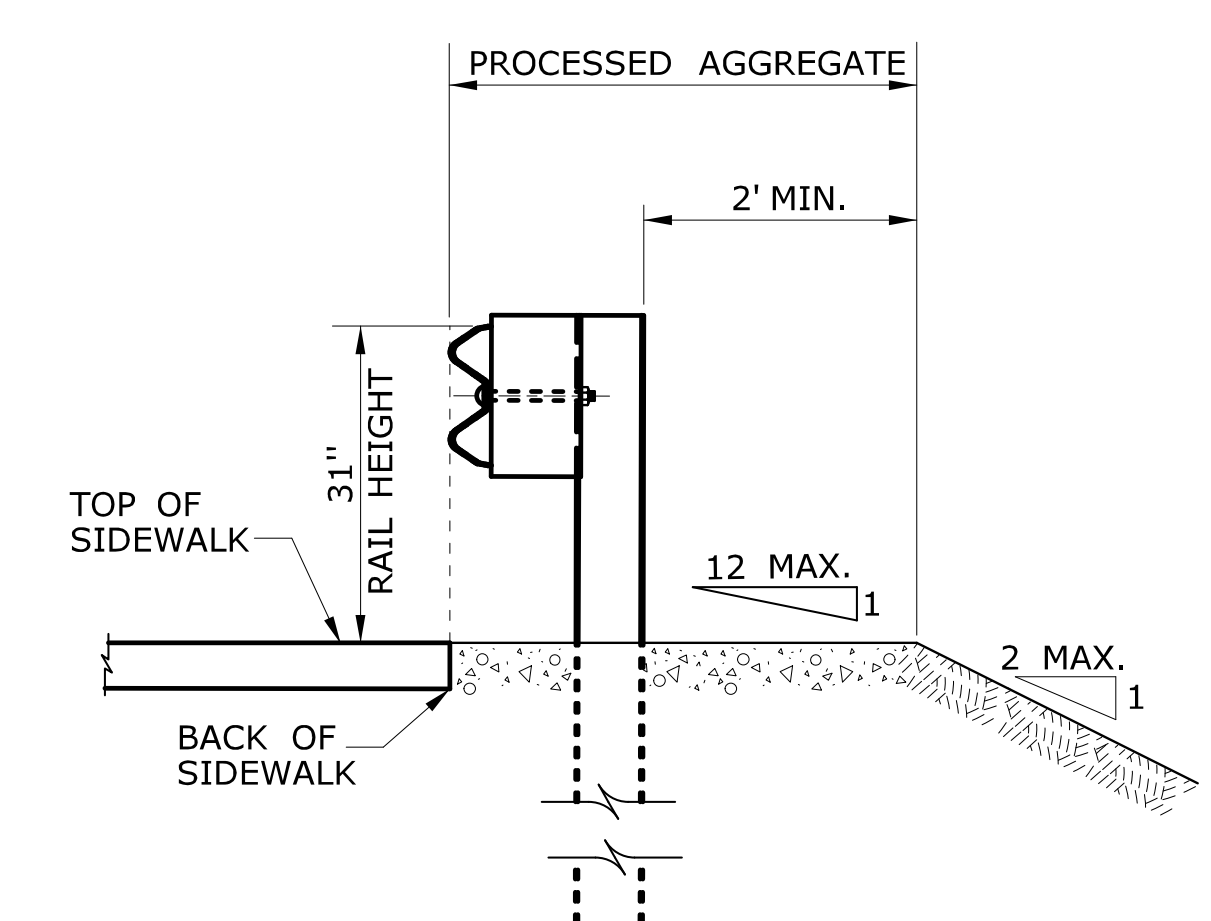
SECTION A

NO CURB APPLICATION



SECTION A

CURB APPLICATION



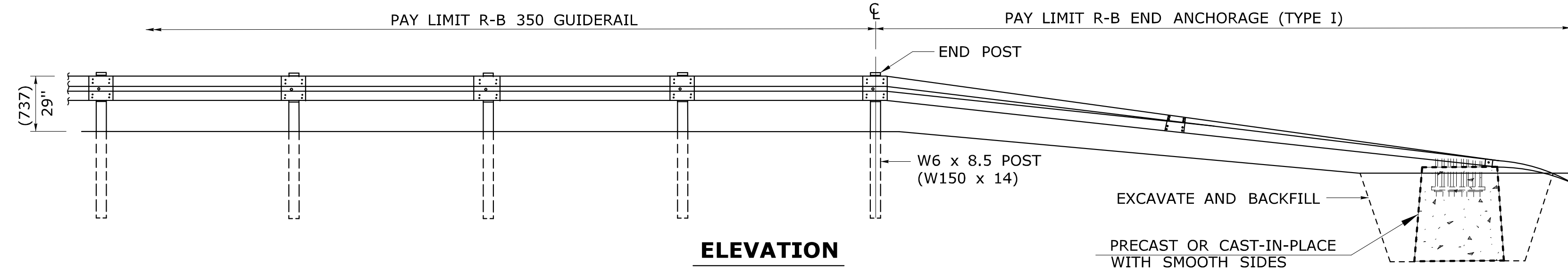
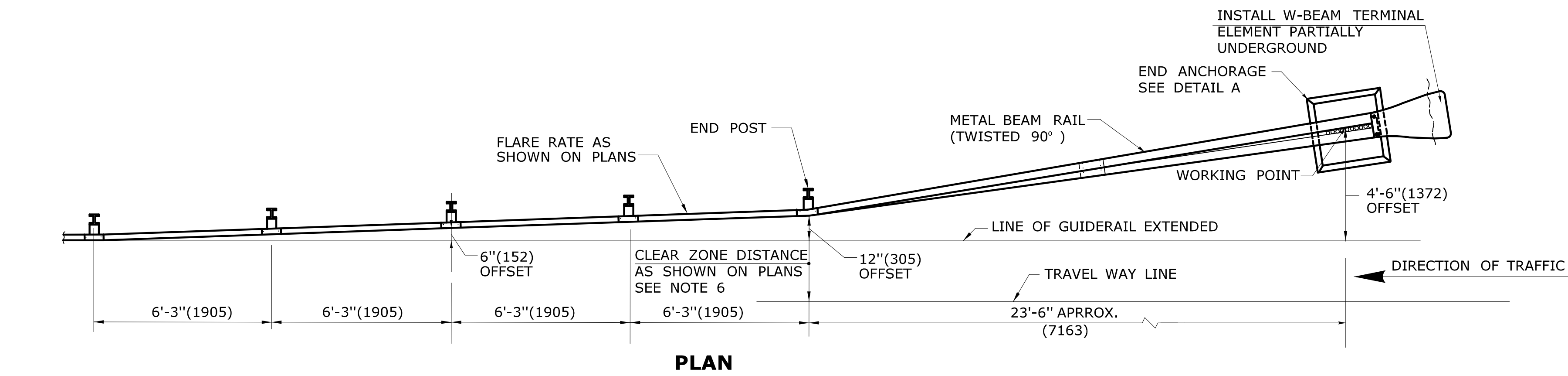
SECTION A

SIDEWALK APPLICATION

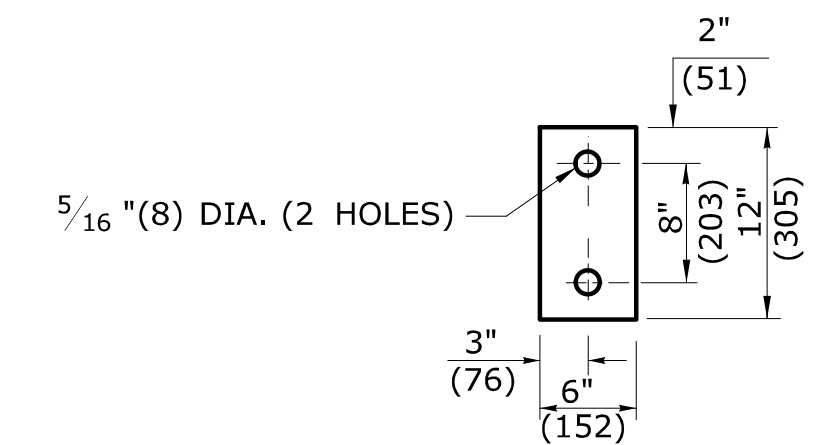
1	1/19	ELIMINATED 1 FOOT RAIL OFFSET FOR NON CURB CONDITIONS	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SUBMITTED BY: <i>Leo Fontaine</i> NAME/DATE/TIME: Leo Fontaine, P.E. 2019.01.24 07:38:57-05'00'	<p>CTDOT STANDARD SHEET</p> <p>OFFICE OF ENGINEERING</p>	STANDARD SHEET TITLE: <p>METAL BEAM RAIL (R-B MASH) GUIDERAIL</p>	STANDARD SHEET NO.: <p>HW-910_21</p>
-	-	-			APPROVED BY: <i>Gregory M. Dorosh</i> NAME/DATE/TIME: Gregory M. Dorosh, P.E. 2019.01.24 10:42:50-05'00'			
-	-	-			NOT TO SCALE			
-	-	-			Filename: CTDOT-HIGHWAY-STD-[1-23-19...].dgn Model: 274 - HW-910.21			
REV.	DATE	REVISION DESCRIPTION			Plotted Date: 1/23/2019			

GENERAL NOTES:

1. R-B END ANCHORAGE TYPE I INSTALLED ON FREEWAYS AND RAMP SHALL USE CLASS B (10 GAUGE) TERMINAL AND W-BEAM RAIL ELEMENTS. ALL OTHER R-B END ANCHORAGE TYPE I SHALL USE CLASS A (12 GAUGE) TERMINAL AND W-BEAM RAIL ELEMENTS.
2. R-B END ANCHORAGE TYPE II SHALL USE CLASS A (12 GAUGE) TERMINAL AND W-BEAM RAIL ELEMENTS.
3. OTHER RADII WHICH CAN BE DEMONSTRATED TO PROVIDE THE INSTALLATIONS SHOWN FOR END ANCHORAGE TYPE II MAY BE APPROVED.
4. J-HOOK BOLTS MAY BE SUBSTITUTED FOR BOTTOM PLATE ANCHORAGE IN CONCRETE END ANCHORS USING THE SAME SIZE, STRENGTH, AND LENGTH AS NOTED ON THE PLANS.
5. MINIMUM RAIL HEIGHT FOR NEW CONSTRUCTION SHALL BE 29" (737) + 1' (25).
6. R-B TYPE I END ANCHOR: INSTALL LEADING END USING DESIGN CLEAR ZONE DISTANCE MEASURED FROM TRAVEL WAY LINE TO END POST AS SHOWN ON PLANS, THEN PLACE CONCRETE ANCHOR 4'-6" (1372) FROM THE LINE OF GUIDERAIL EXTENSION. INSTALL TRAILING END ON DUAL DIRECTION ROADWAYS IN THE SAME MANNER EXCEPT MEASURE CLEAR ZONE FROM THE DOUBLE YELLOW LINE. INSTALL TRAILING END ON SINGLE DIRECTION ROADWAYS MEASURED FROM THE GUIDERAIL LINE EXTENDED AND OFFSET 4'-6" (1372).
- R-B TYPE II END ANCHOR: INSTALL ONLY ON ROADWAYS WITH DESIGN SPEEDS < 45mph (72kph). FOR DUAL DIRECTION ROADWAYS, INSTALL IN THE SAME MANNER AS TYPE I END ANCHOR FOR BOTH LEADING AND TRAILING END USING DESIGN CLEAR ZONE DISTANCE EXCEPT PLACE CONCRETE ANCHOR 2'-4" (711) MEASURED FROM THE LINE OF GUIDERAIL EXTENDED. INSTALL TRAILING END ON SINGLE DIRECTION ROADWAYS MEASURED FROM THE GUIDERAIL LINE EXTENDED AND OFFSET 2'-4" (711).
7. SEE HW-911.04 FOR TYPICAL END ANCHOR GRADING PLAN.

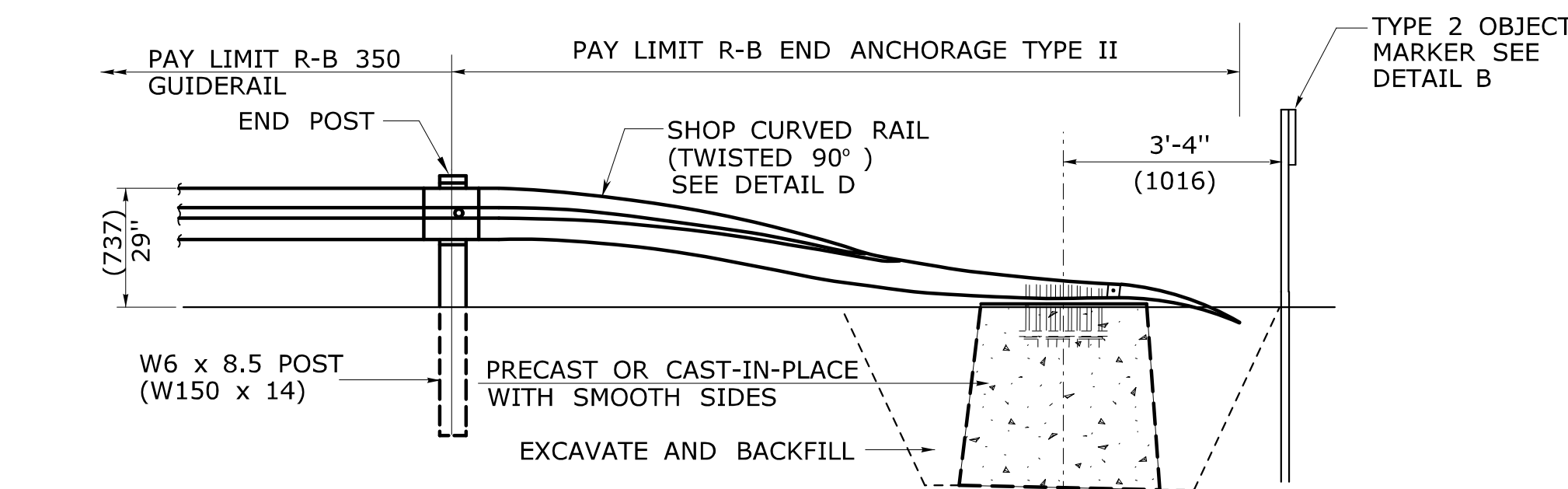
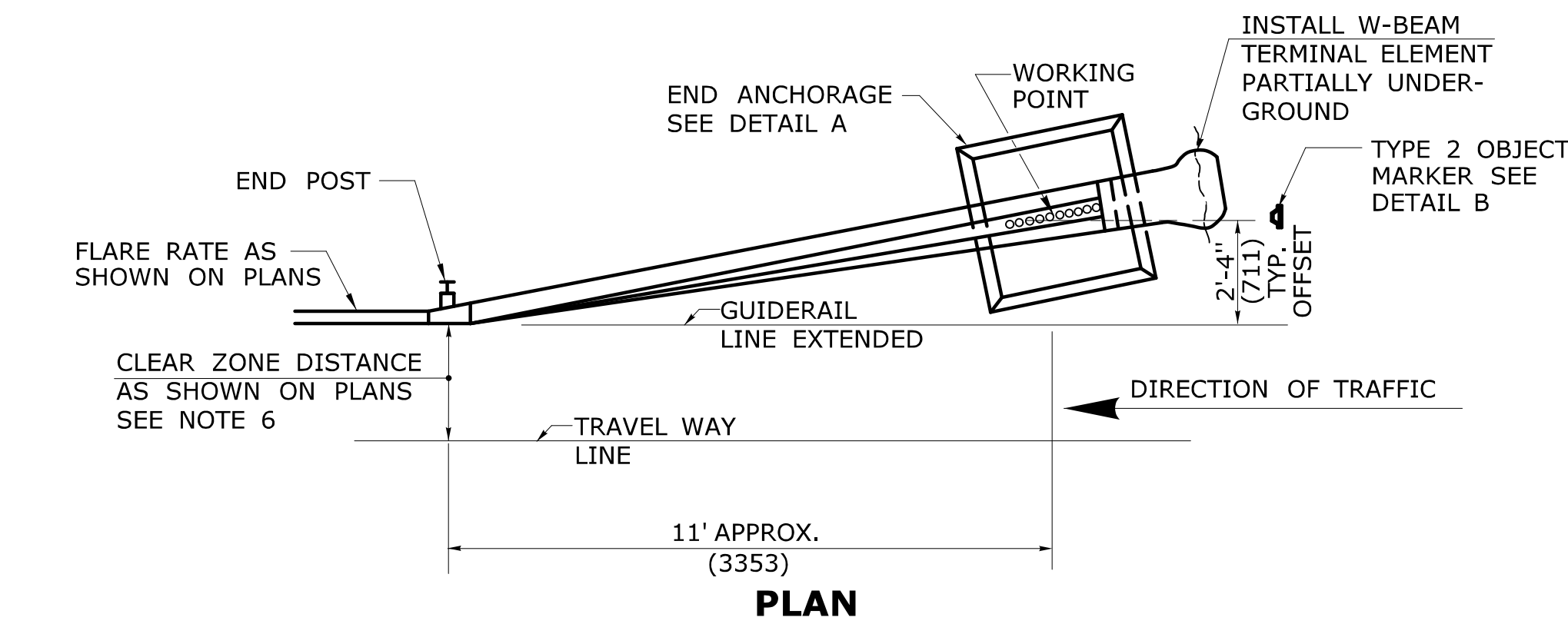


**R-B END ANCHORAGE TYPE I
(ROADSIDE APPLICATION)**

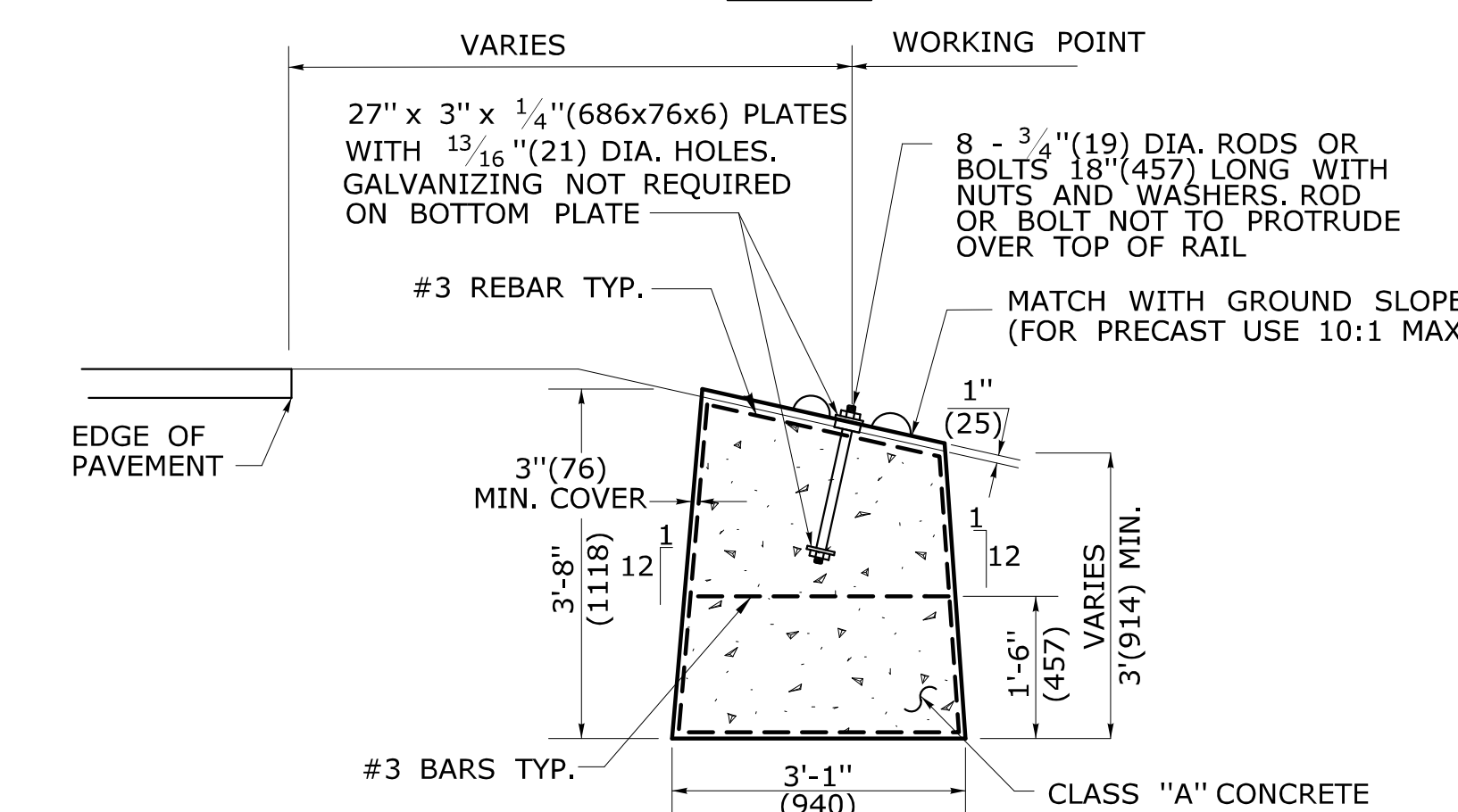
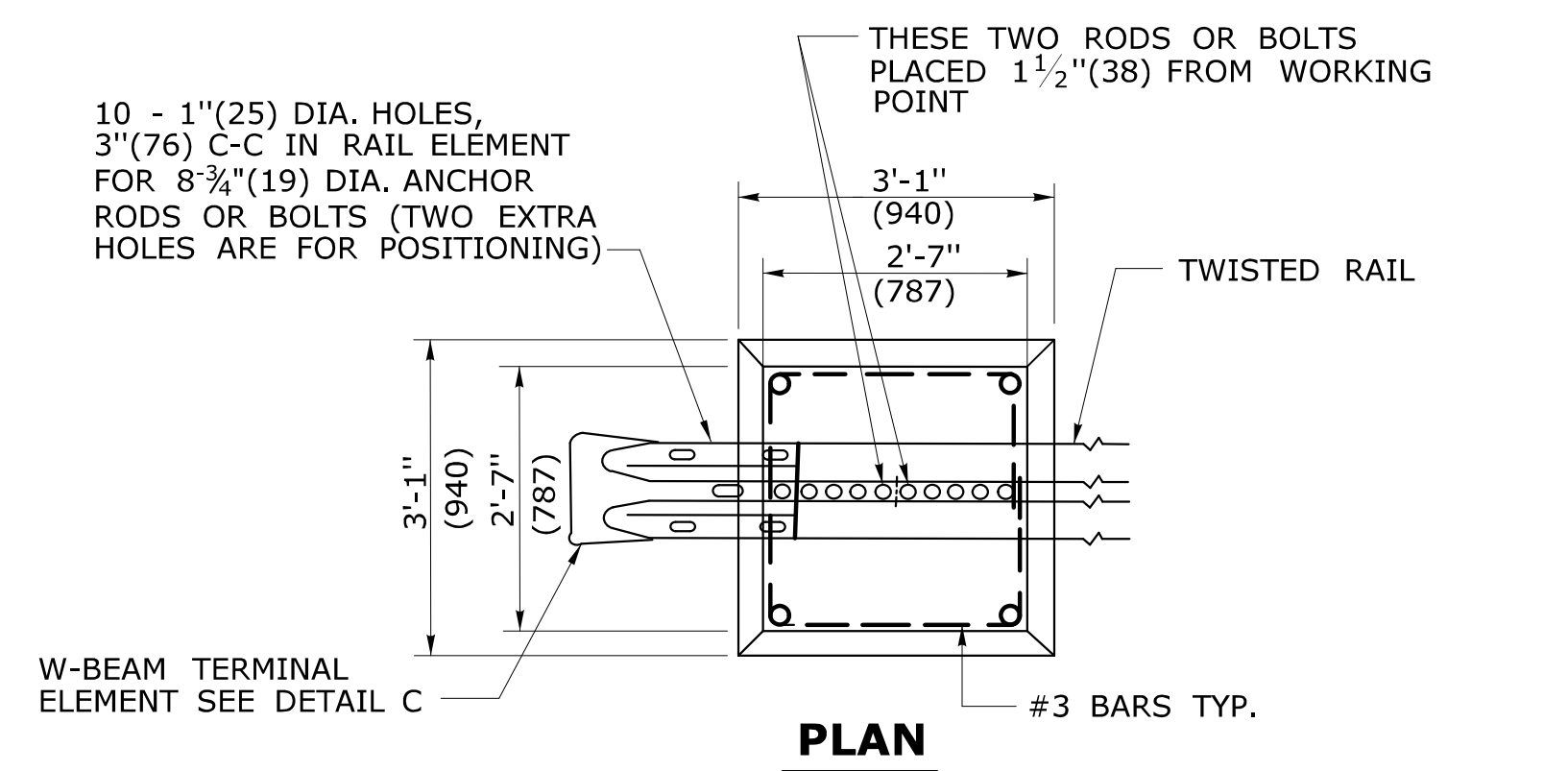


**DETAIL B
TYPE 2 OBJECT MARKER
SIGN # 51-5030**

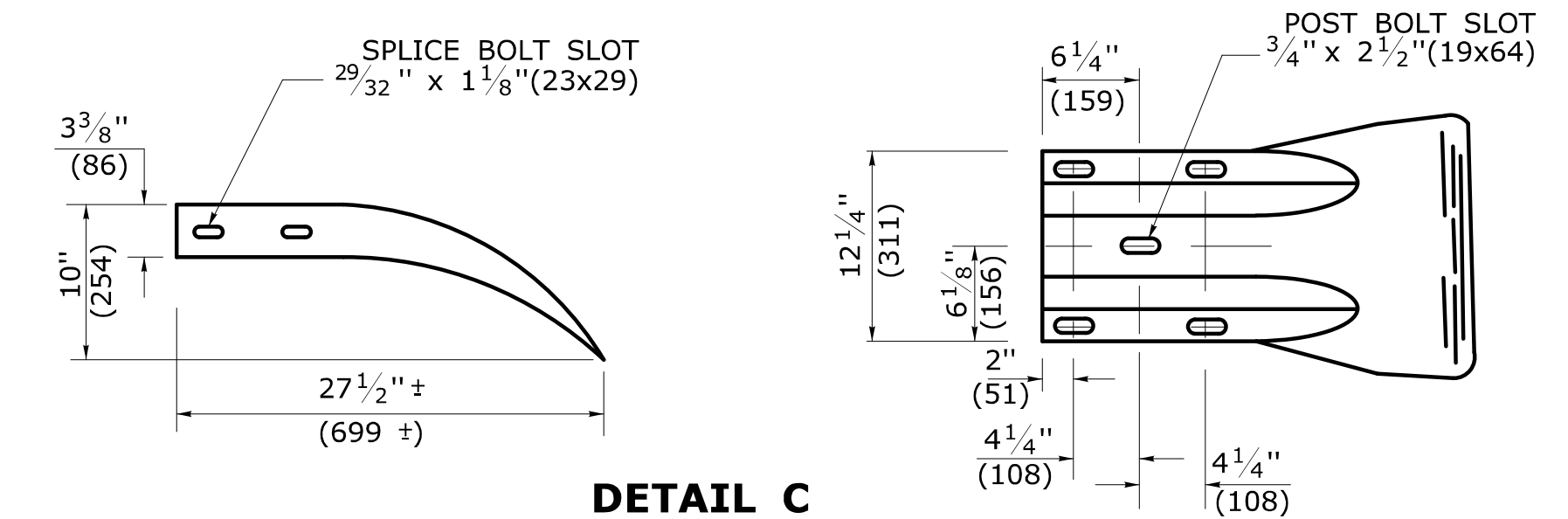
OBJECT MARKER FACE SHALL BE YELLOW TYPE III RETROREFLECTORIZED. THE BOTTOM OF TYPE 2 OBJECT MARKER SHALL BE 4'(1219) ABOVE GROUND LEVEL MOUNTED ON METAL DELINEATOR POST. IT SHALL BE USED TO IDENTIFY CULVERT ENDS AND TYPE II END ANCHORS, OR AS DIRECTED BY THE ENGINEER.



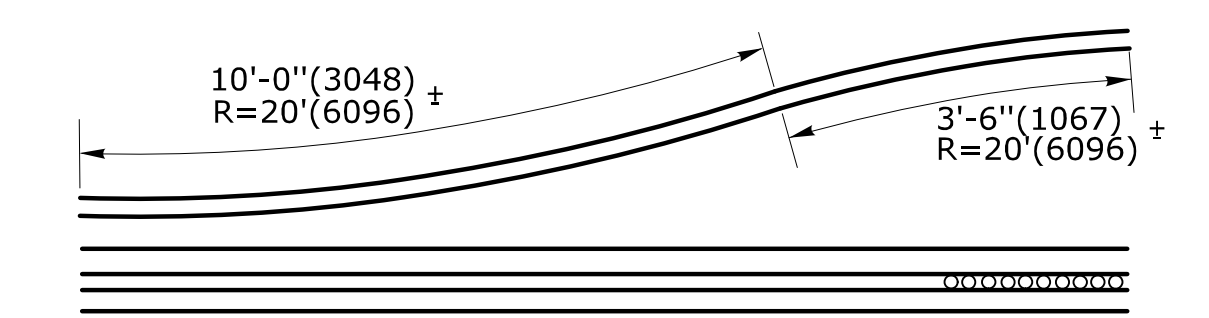
**R-B END ANCHORAGE TYPE II
SEE NOTE 2**



**DETAIL A
ROADSIDE CONCRETE END ANCHOR
SEE NOTE 4**



**DETAIL C
W-BEAM TERMINAL ELEMENT**



**DETAIL D
SHOP CURVED RAIL
SEE NOTE 3**

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

1	6/11	REVISED TYPE I AND II ANCHOR FOR CLEAR ZONE PLACEMENT	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.
2	7/13	ADD POST OFFSET DISTANCE	
-	-	-	
-	-	-	
-	-	-	
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 6/13/2013

NOT TO SCALE

**STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION**

Filename: CTDOT-HIGHWAY-STD2013.dgn Model: 70 - HW-911_01

SUBMITTED BY: [Signature]

DATE: 2013.07.24 10:56:59-0400

APPROVED BY: [Signature]

NAME/DATE/TIME: James H. Norman 2013.07.24 14:55:36-04'00'

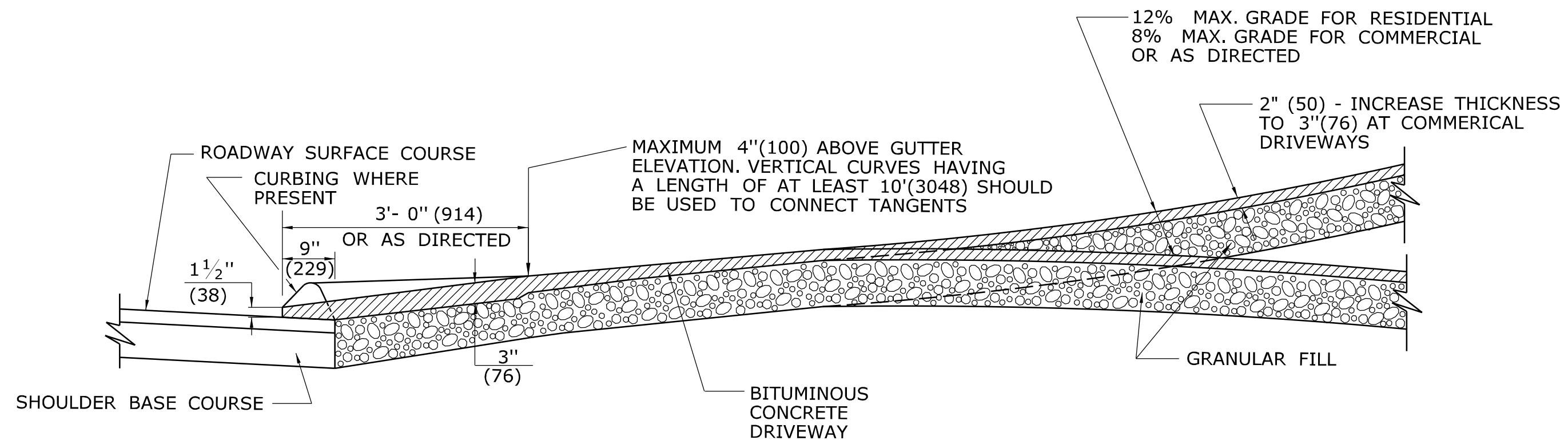
**CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING**

STANDARD SHEET TITLE: **R-B END ANCHORAGE TYPE I AND II**

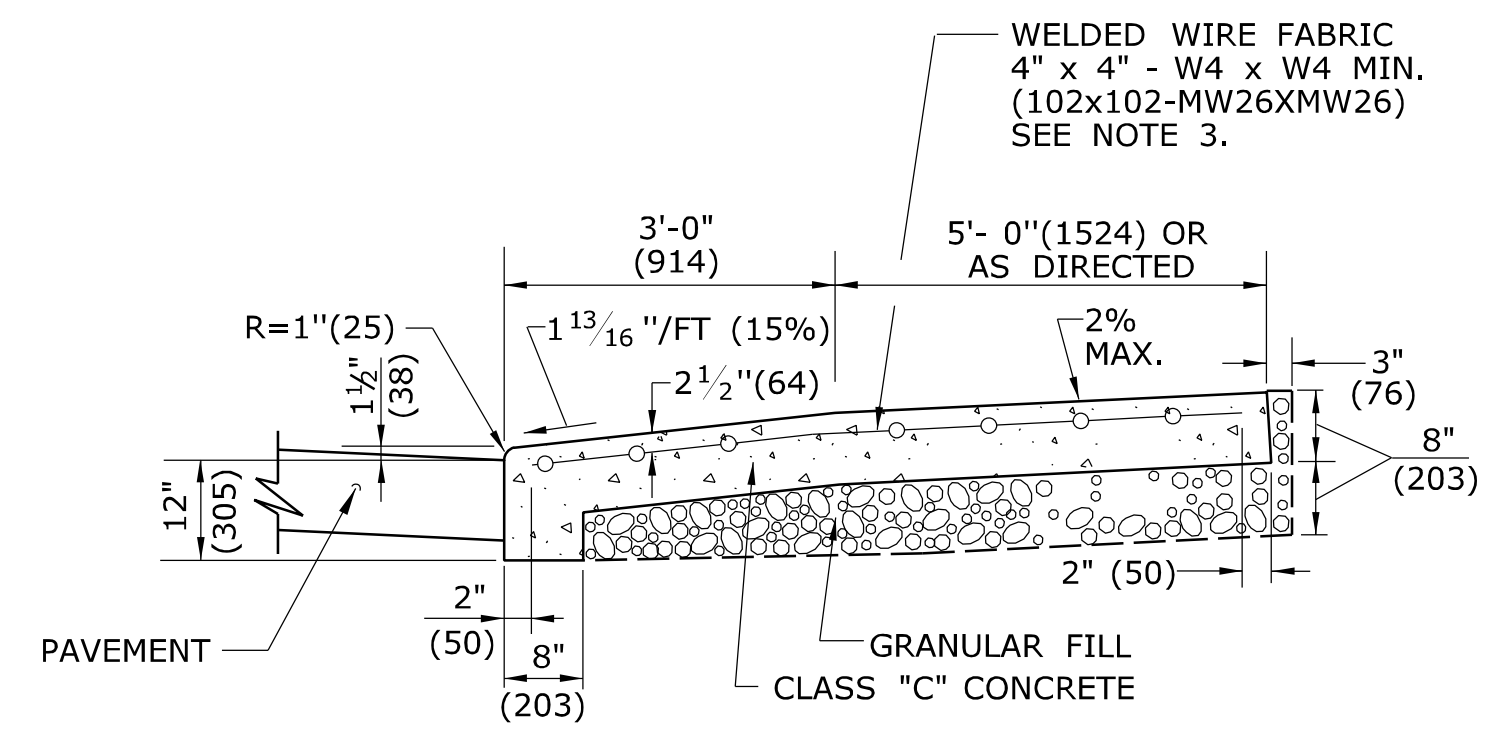
STANDARD SHEET NO.: **HW-911_01**

GENERAL NOTES:

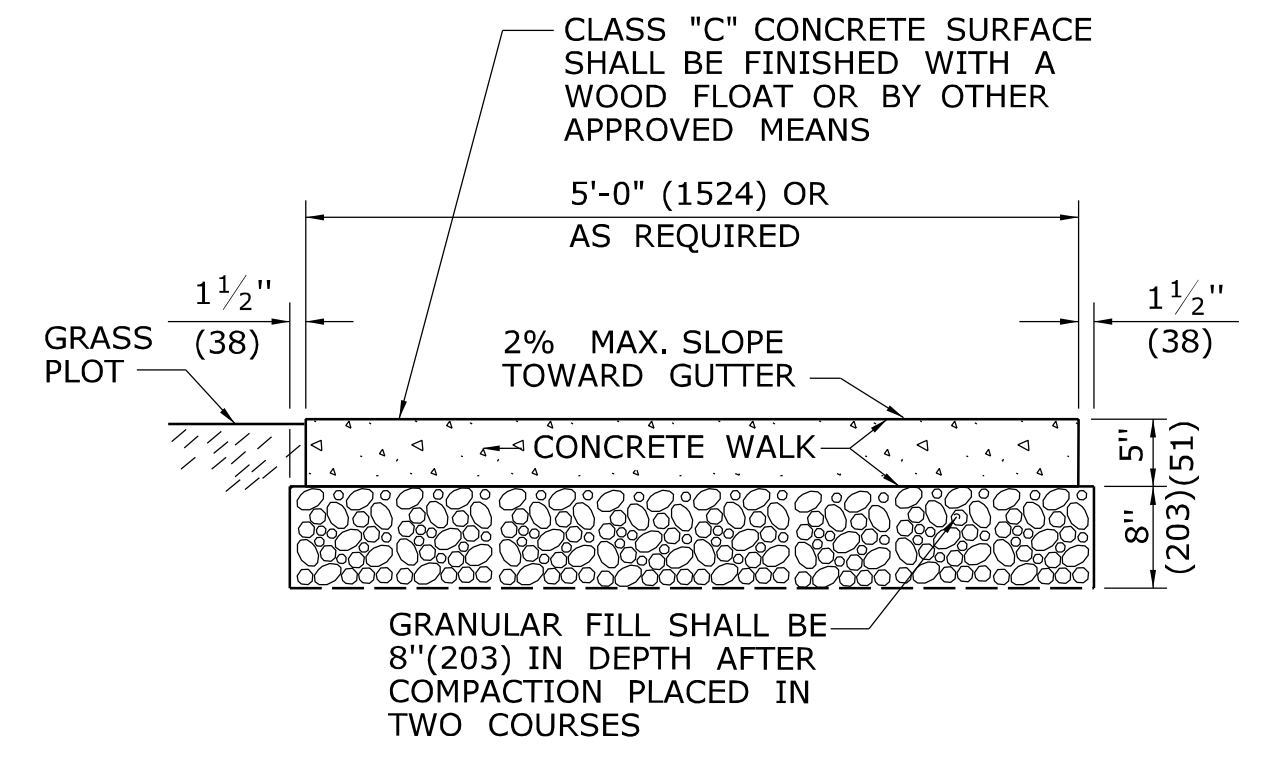
1. DRIVEWAY ENTRANCE SHALL BE A MINIMUM OF 12' (3658) WIDE, EXCLUDING CURBING WHEN PRESENT.
2. SIDEWALK RAMPS SHALL BE A MINIMUM OF 36" (914) TO 40" (1016) MAXIMUM, WITH A MAXIMUM SLOPE OF 12:1. THERE SHALL BE NO LIP AT THE DRIVEWAY SIDEWALK INTERFACE.
3. WELDED WIRE FABRIC MATS WITH REINFORCING AT CLOSER SPACING MAY BE USED.



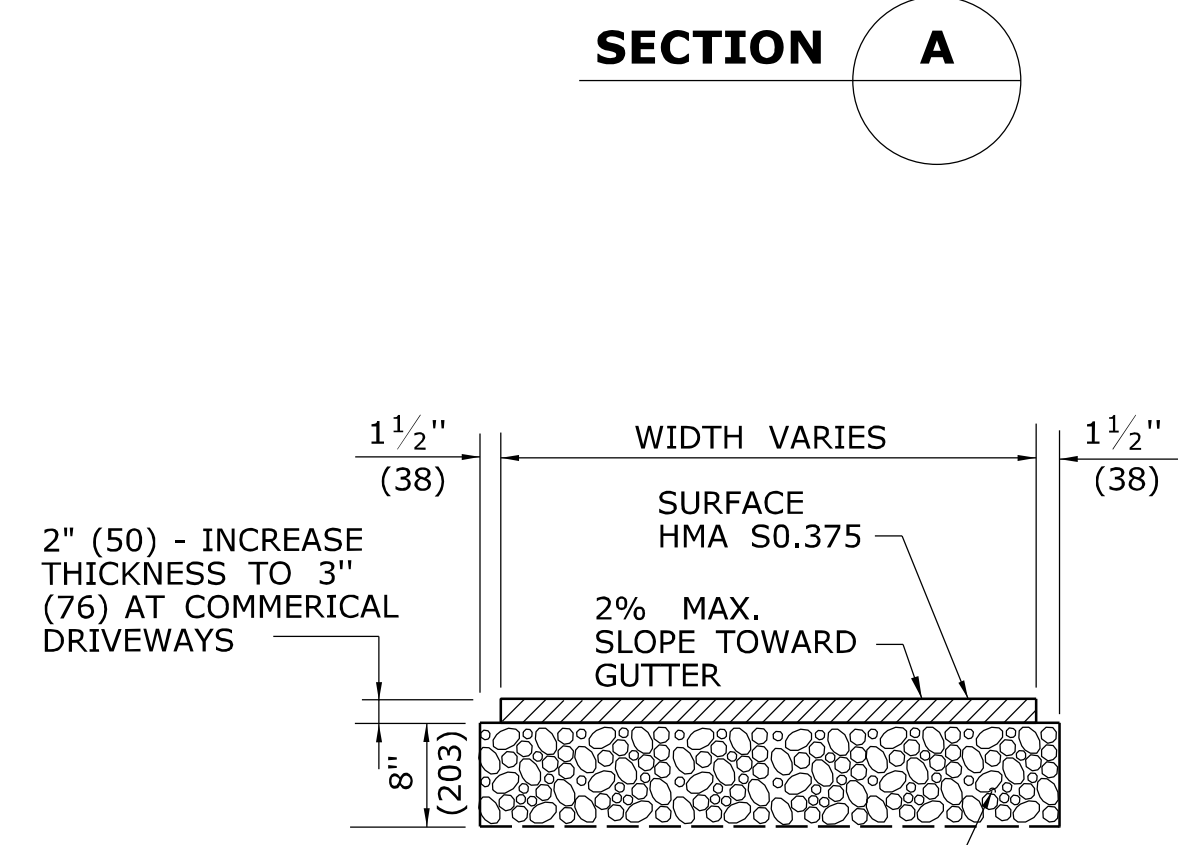
SECTION A



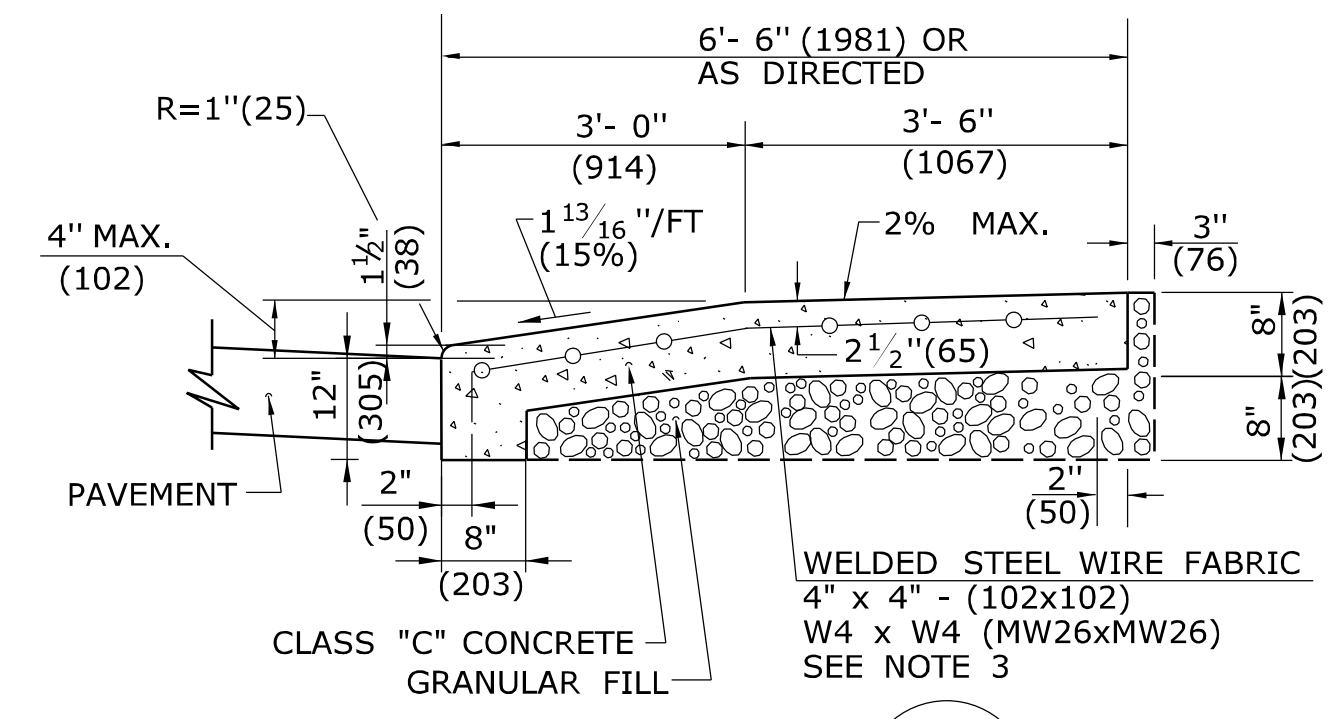
SECTION C



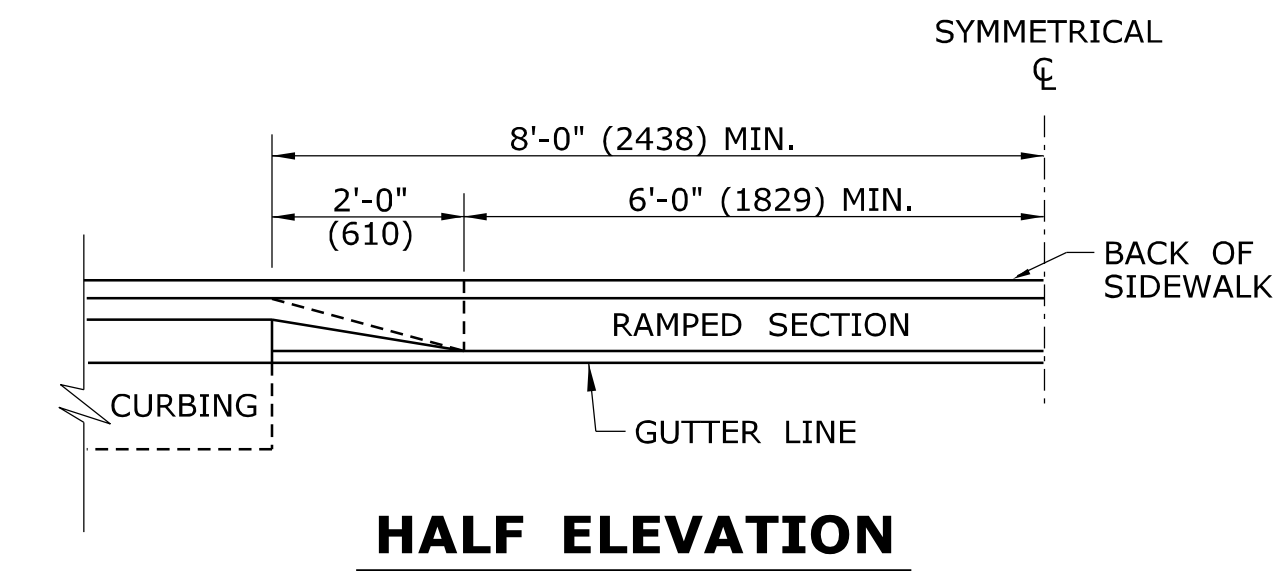
SECTION D



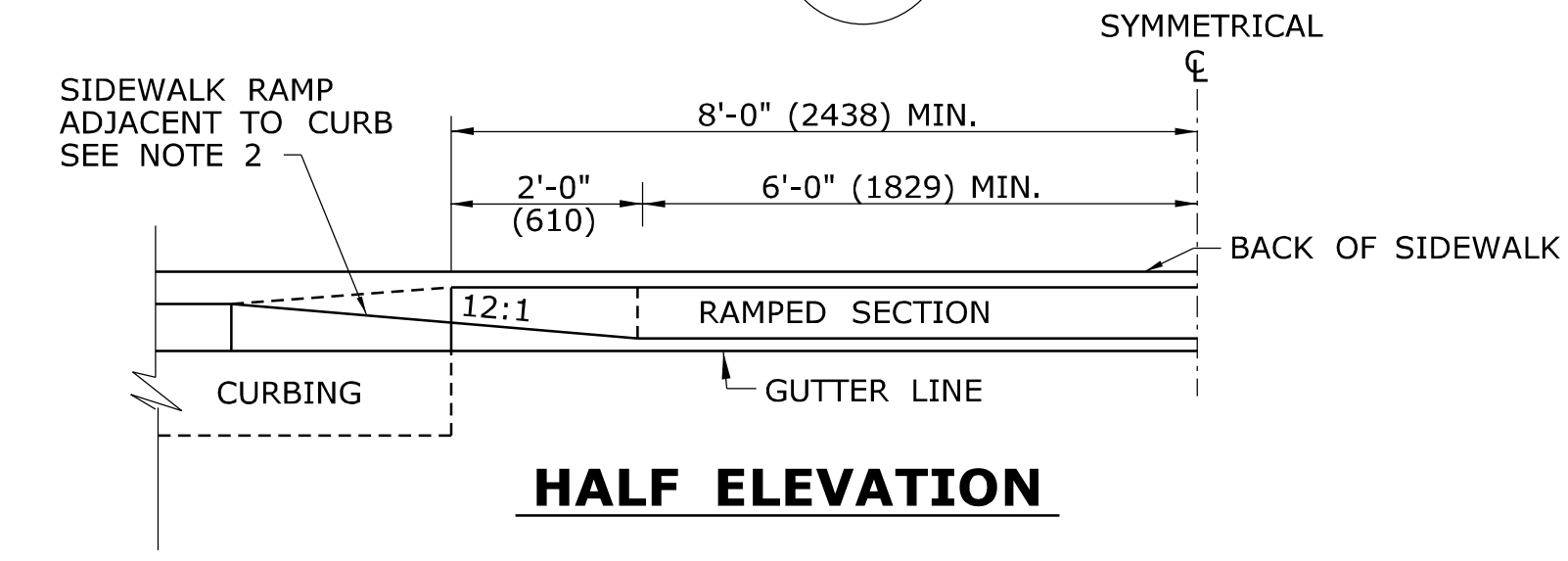
TYPICAL SECTION BITUMINOUS CONCRETE SIDEWALK AND DRIVE



SECTION B

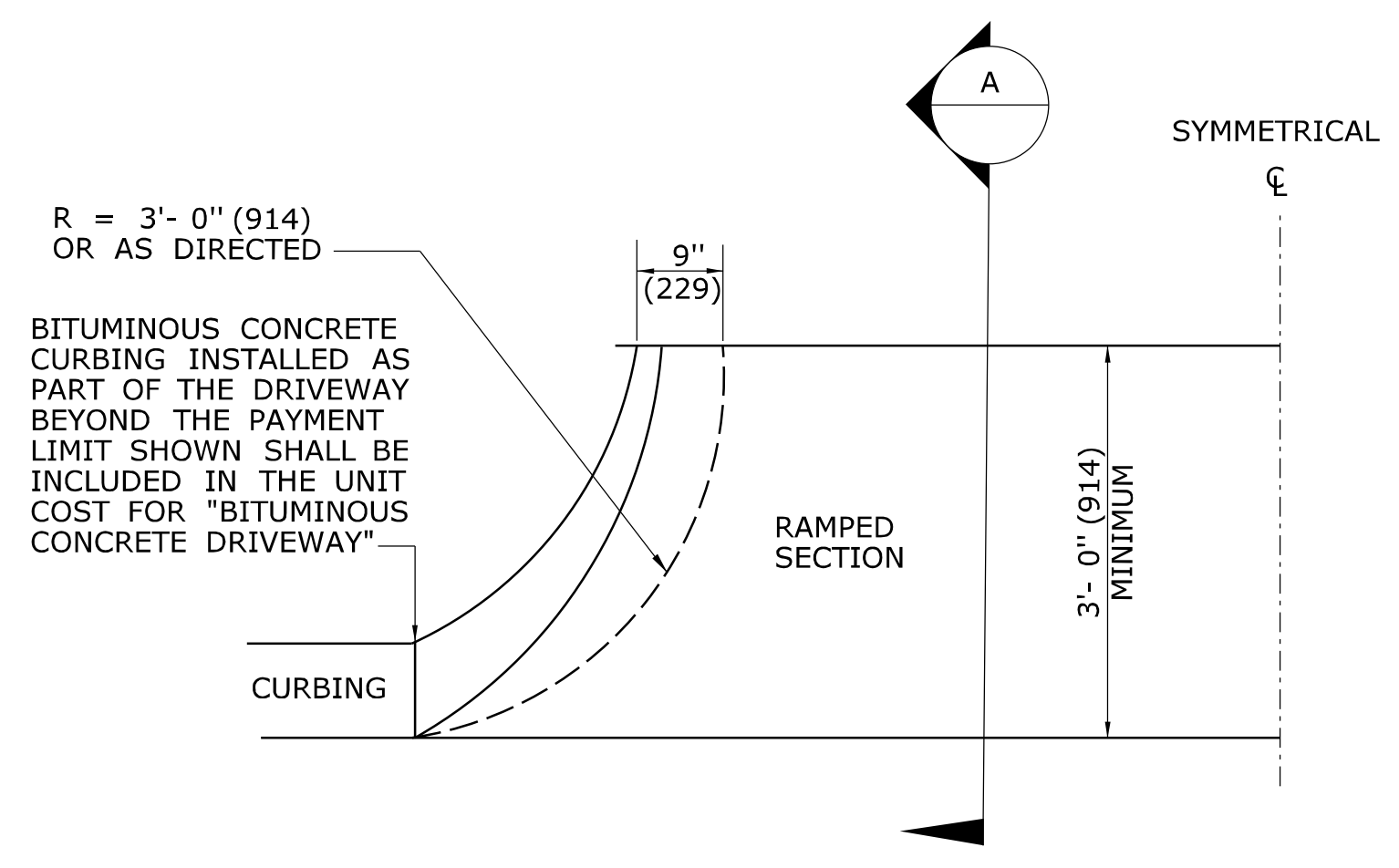


HALF ELEVATION

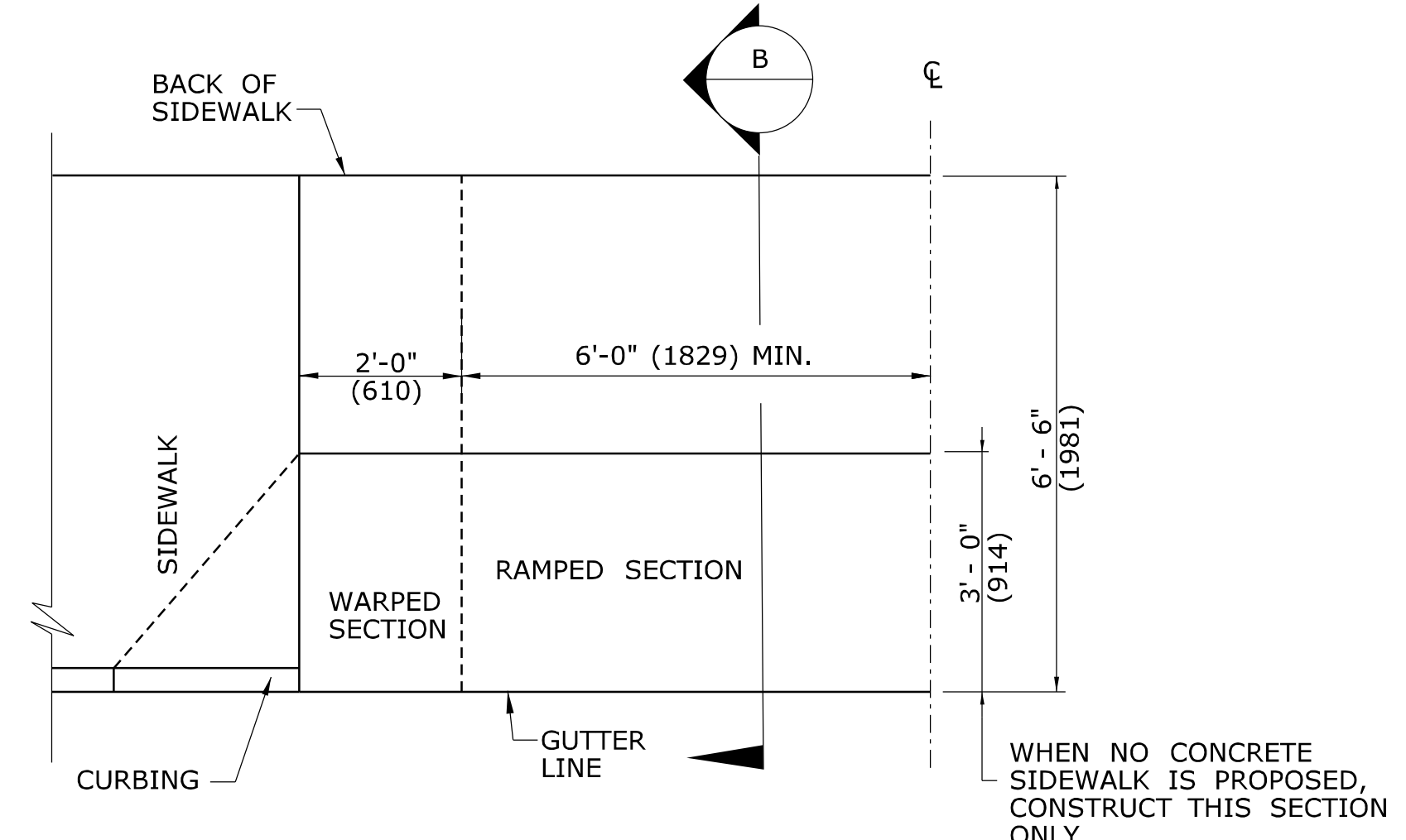


HALF ELEVATION

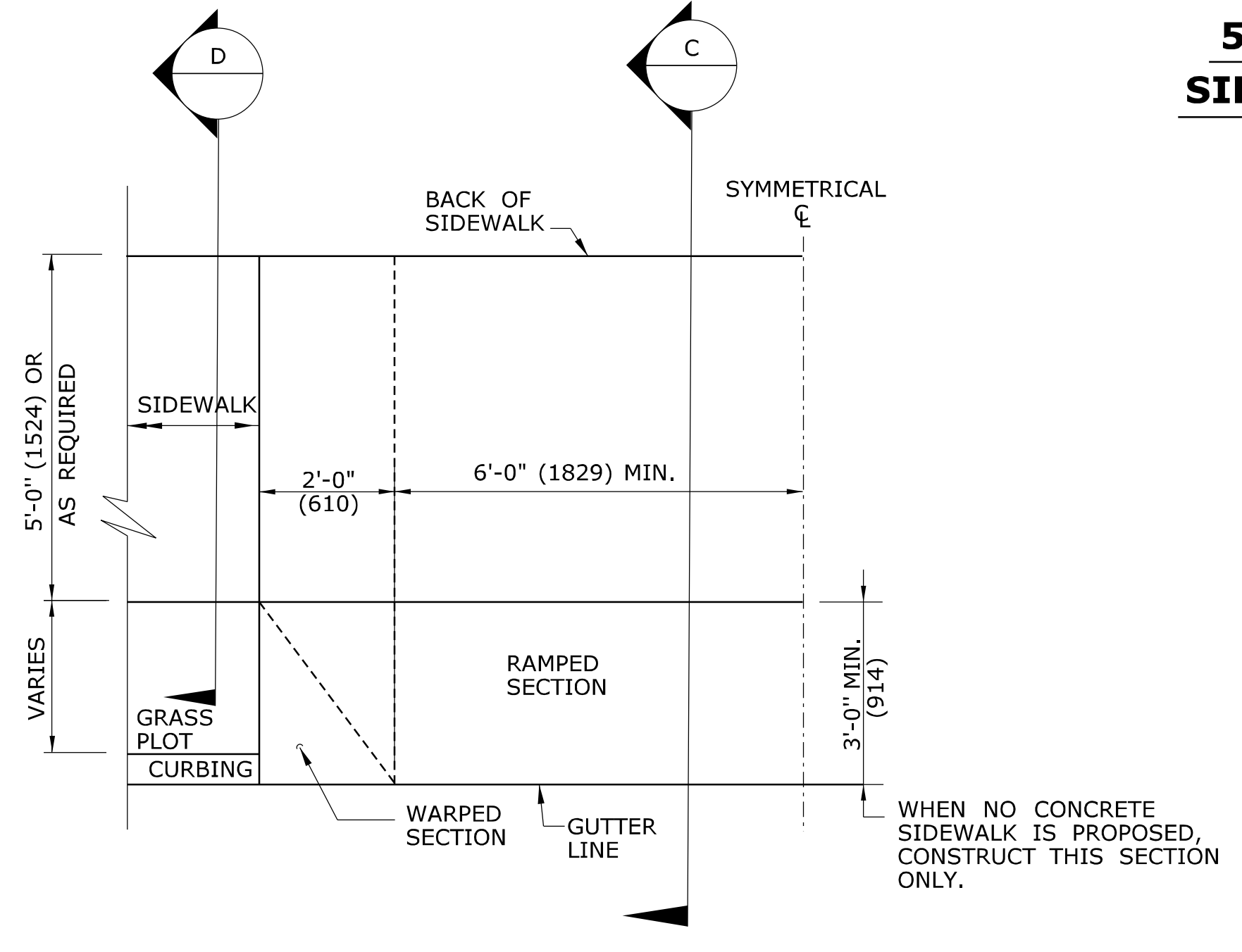
5' (1524) WIDE CONCRETE SIDEWALK WITH GRASS PLOT



HALF BITUMINOUS CONCRETE DRIVEWAY PLAN



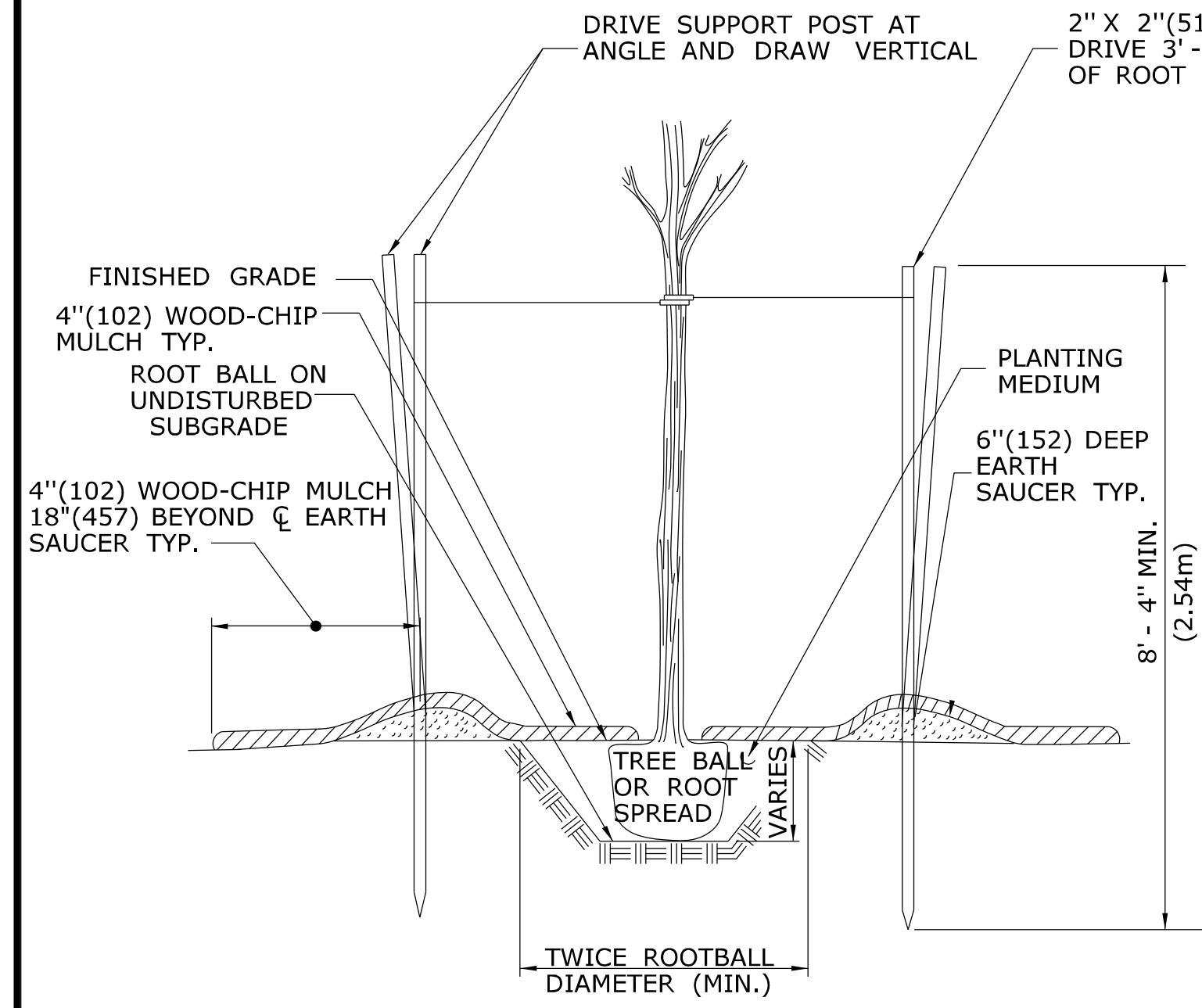
HALF PLAN OF CONCRETE DRIVEWAY RAMP WHERE SIDEWALK ADJOINS CURBING



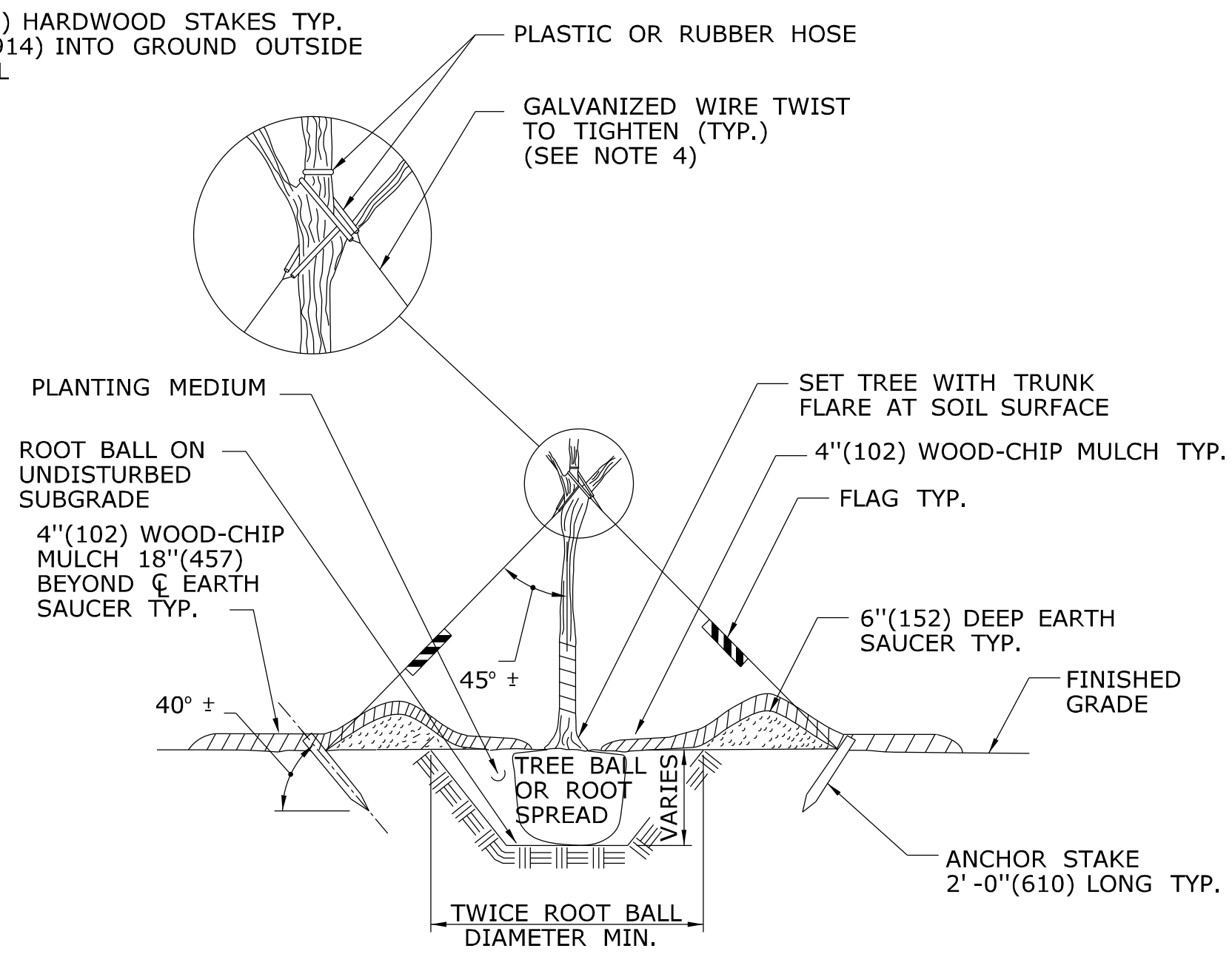
HALF PLAN OF CONCRETE DRIVEWAY RAMP WHERE CURB IS SEPARATED FROM SIDEWALK BY GRASS PLOT

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

1	6/01/10	REVISED BORDER TITLE	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SUBMITTED BY: NAME/DATE/TIME: Leo Fontaine 2012.01.13 13:14:45 -05'00'	CTDOT STANDARD SHEET OFFICE OF ENGINEERING	STANDARD SHEET TITLE: DRIVEWAY RAMPS AND SIDEWALKS	STANDARD SHEET NO.: HW-921_01
2	6/01/10	REVISED HALF ELEVATION DETAILS			APPROVED BY: NAME/DATE/TIME: James H. Norman 2012.01.26 15:32:44 -05'00'			
3	1/12	REVISE 2% MAX. SLOPE NOTE						
-	-	-						
-	-	-						
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 1/9/2012	NOT TO SCALE Filename: Jan2012.dgn Model: HW-921_01				



SECTION A



SECTION B

NOTE:
 USE 3 POSTS FOR STAKING DECIDUOUS TREES 3"(76) CALIPER OR GREATER AND EVERGREEN TREES 8'(2.4m) HIGH OR GREATER. USE 2 POSTS FOR STAKING DECIDUOUS TREES LESS THAN 3"(76) CALIPER AND EVERGREEN TREES LESS THAN 8'(2.4m) HIGH.

EXAMPLES OF MINIMUM SIZE OF ROOT BALL FOR NURSERY GROWN PLANTS.

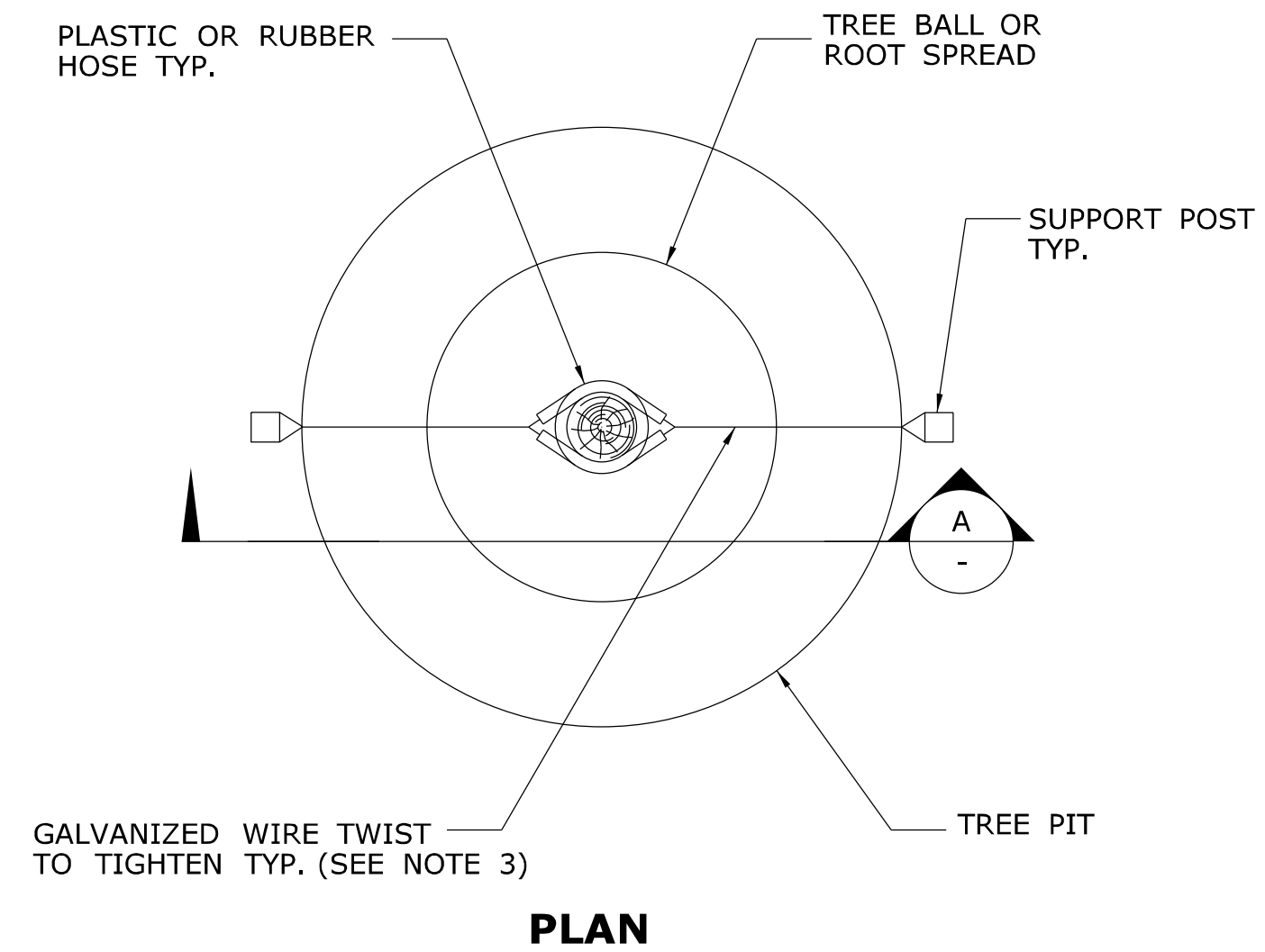
CALIPER* INCHES(mm)	BALL DIAMETER INCHES(mm)	PLANTING PIT SIZE INCHES(mm)
-	8(203)	16(406)
-	10(254)	20(508)
1/2(12.5)	12(304)	24(610)
3/4(19)	14(356)	28(711)
1(25)	16(406)	32(813)
1 1/2(38)	20(508)	40(1016)
2(50)	24(610)	48(1219)
2 1/2(65)	28(711)	56(1422)
3(75)	32(813)	64(1626)
3 1/2(90)	38(965)	76(1930)
4(100)	42(1166)	84(2134)
5(125)	54(1372)	108(2743)
6(150)**	-	-

* THE CALIPER OF THE TRUNK IS MEASURED 6"(152) ABOVE THE GROUND UP TO AND INCLUDING 4"(102) SIZES AND 12"(305) ABOVE THE GROUND FOR LARGER SIZES OR AS SPECIFIED IN THE MOST RECENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

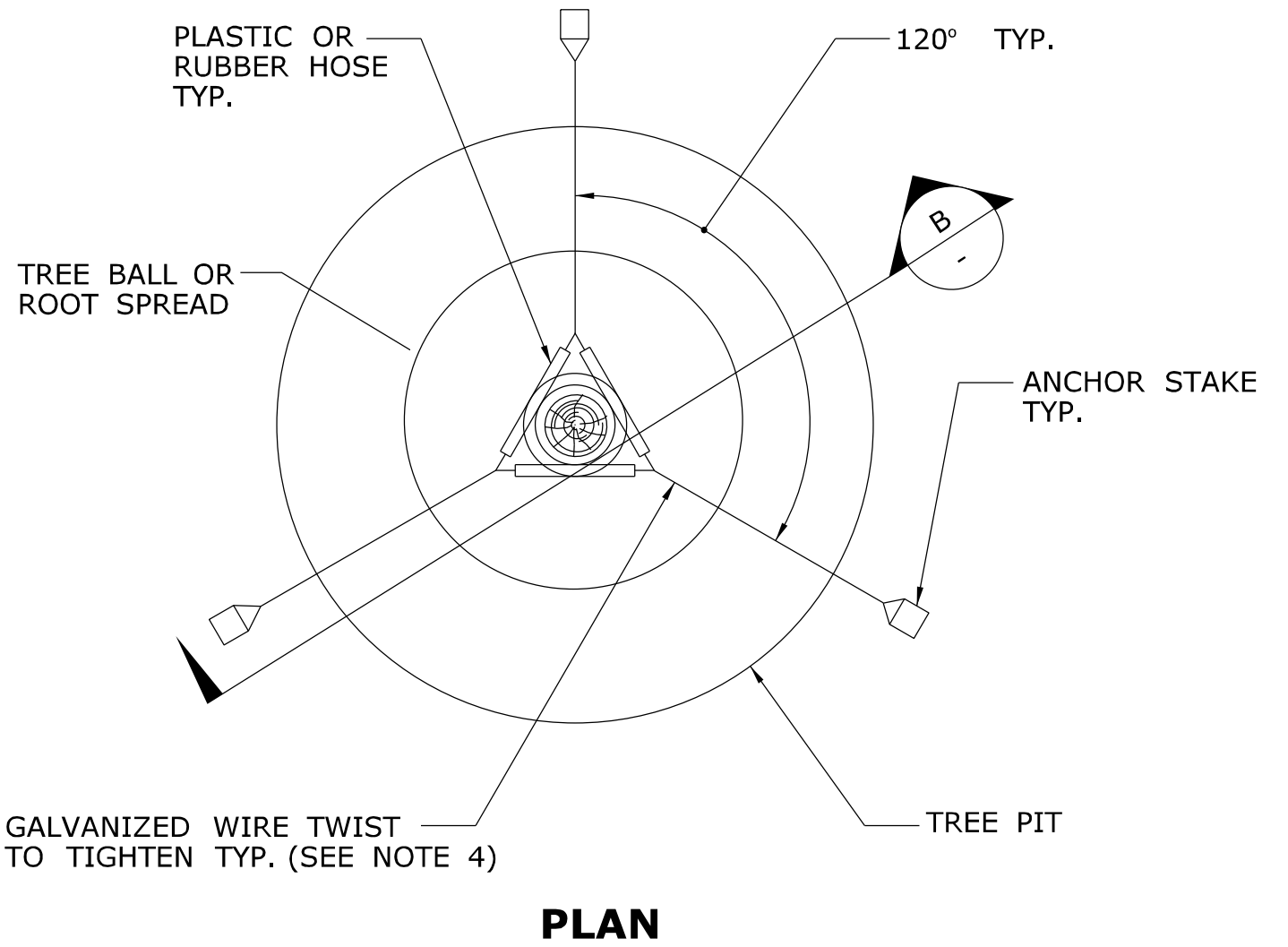
** TREES GREATER THAN OR EQUAL TO 6"(152) CALIPER SHALL HAVE A ROOT BALL DIAMETER EQUAL TO 10"(254) PER INCH(25mm) OF TRUNK CALIPER (A 7"(178) CALIPER TREE SHOULD HAVE A ROOT BALL DIAMETER EQUAL TO 70"(1778)).

- GENERAL NOTES:**
1. THE PLANTING PIT SIZE SHALL BE TWICE THE DIAMETER OF THE ROOT BALL IN WIDTH AND 2"(51) LESS THAN THE HEIGHT OF THE ROOT BALL.
 2. ALL EXTERIOR PACKAGING MATERIAL APPLIED TO PLANTS SHALL BE REMOVED AFTER THE PLANT IS LOCATED IN THE PLANTING PIT. CUT AND REMOVE TWINE, BURLAP OR WIRE BASKETS FROM THE TOP 2/3RDS OF THE ROOT BALL.
 3. USE DOUBLE STRAND NO. 12 WIRE FOR DECIDUOUS TREES GREATER THAN OR EQUAL TO 3"(76) CALIPER AND USE DOUBLE STRAND NO. 10 WIRE FOR EVERGREEN TREES GREATER THAN OR EQUAL TO 8"(203) CALIPER.
 4. TREE TRUNK WRAPPING MATERIAL SHALL BE USED AS DIRECTED BY THE ENGINEER.
 5. PLANTING PITS FOR INDIVIDUAL SHRUBS ON SLOPES SHALL BE THREE TIMES THE DIAMETER OF THE ROOT BALL IN WIDTH.

GUYING PLAN

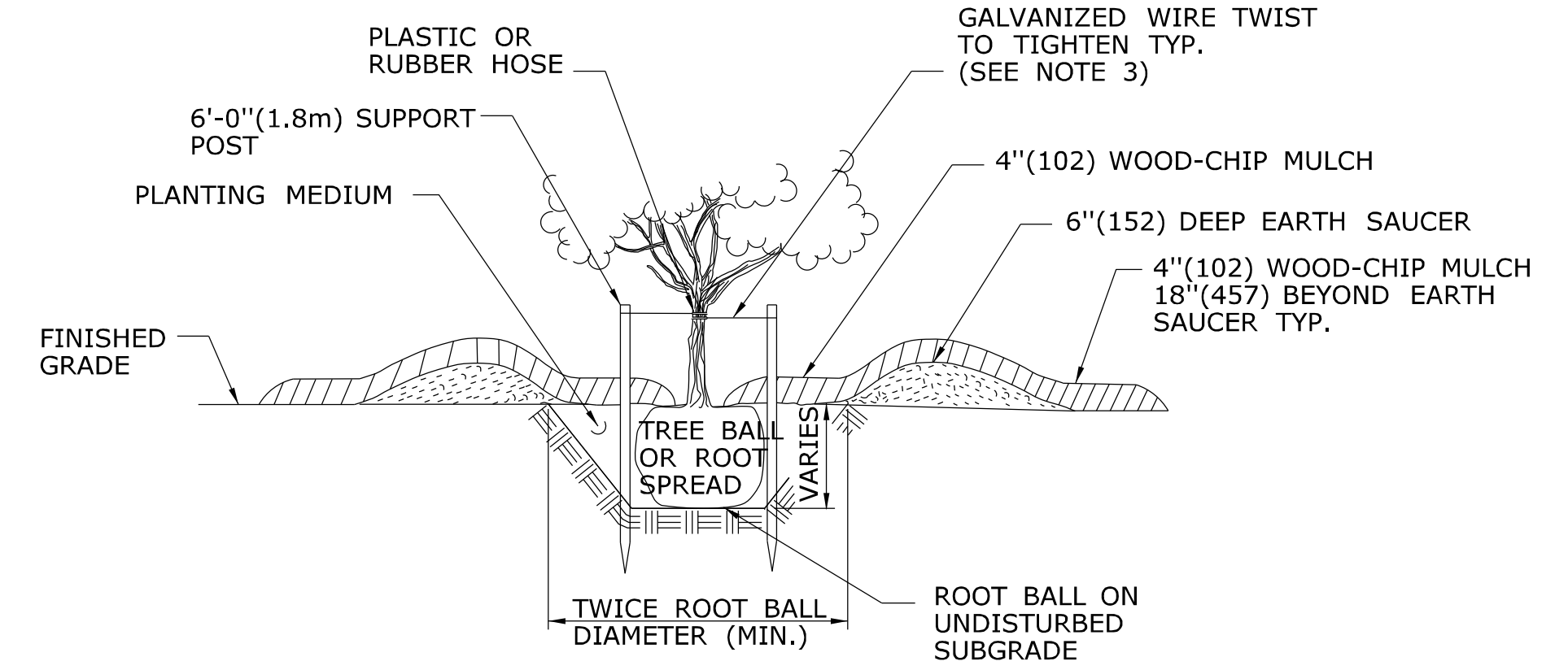


PLAN A

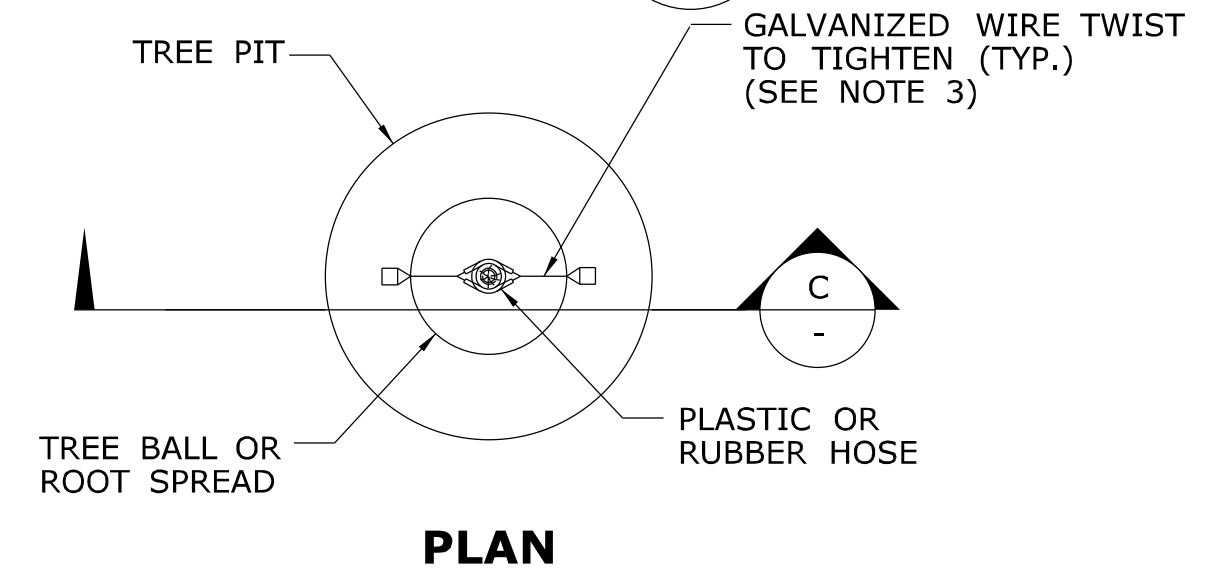


PLAN B

STAKING PLAN

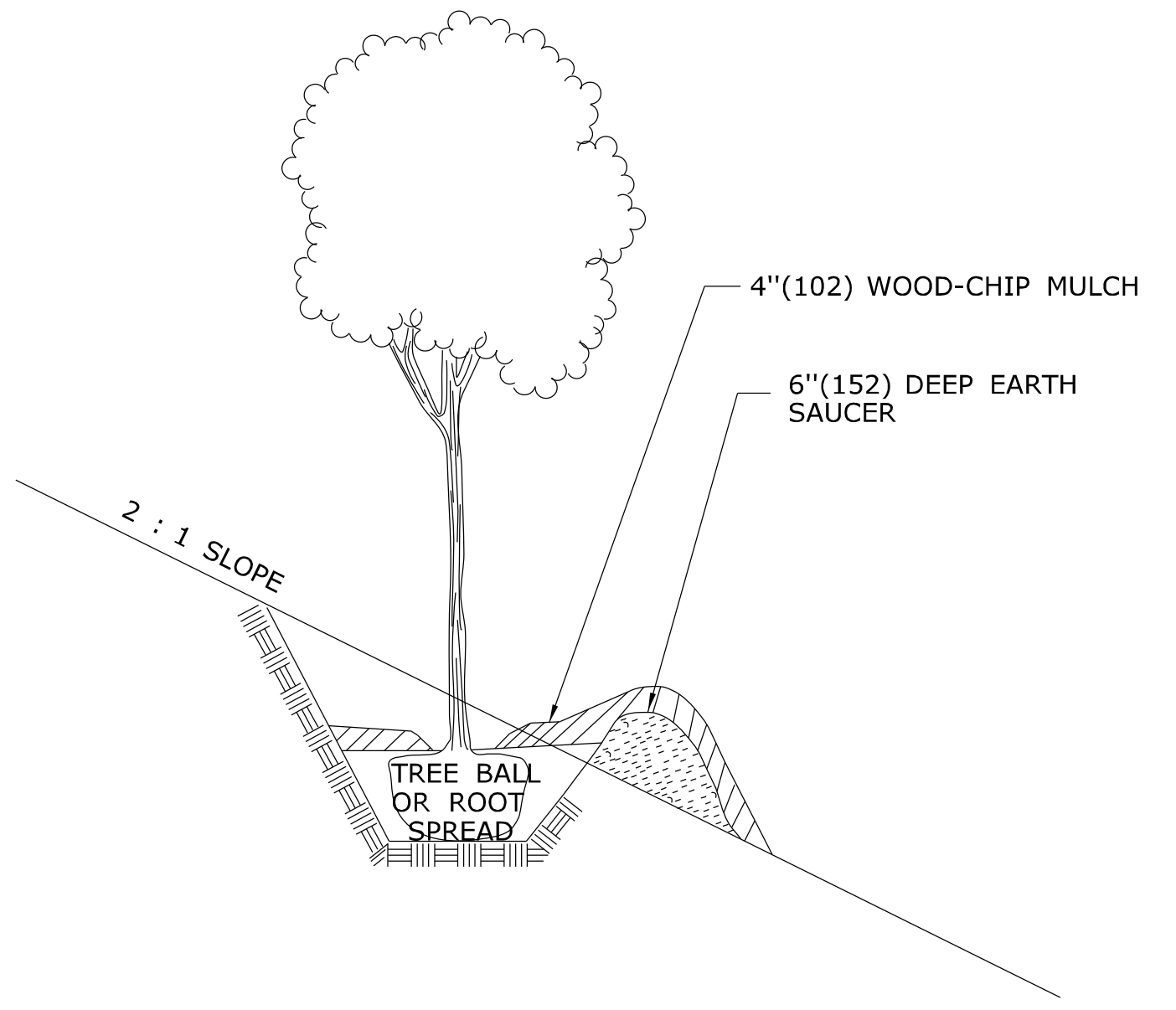


SECTION C



PLAN C

STAKING PLAN FOR LOW BRANCHING DECIDUOUS AND EVERGREEN TREES FROM 5'(1.5m) TO 8'(2.4m) HIGH.



GRADING PLAN FOR TREES ON SLOPES

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

REV.	DATE	REVISION DESCRIPTION
-	-	-
-	-	-
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-	-	-

NOT TO SCALE

**STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION**

Plotted Date: 6/23/2011

Filename: CTDOT_HIGHWAY.STD_JUNE2011.dgn Model: 71 - HW-949_01

SUBMITTED BY: *[Signature]* NAME/DATE/TIME: *[Signature]*

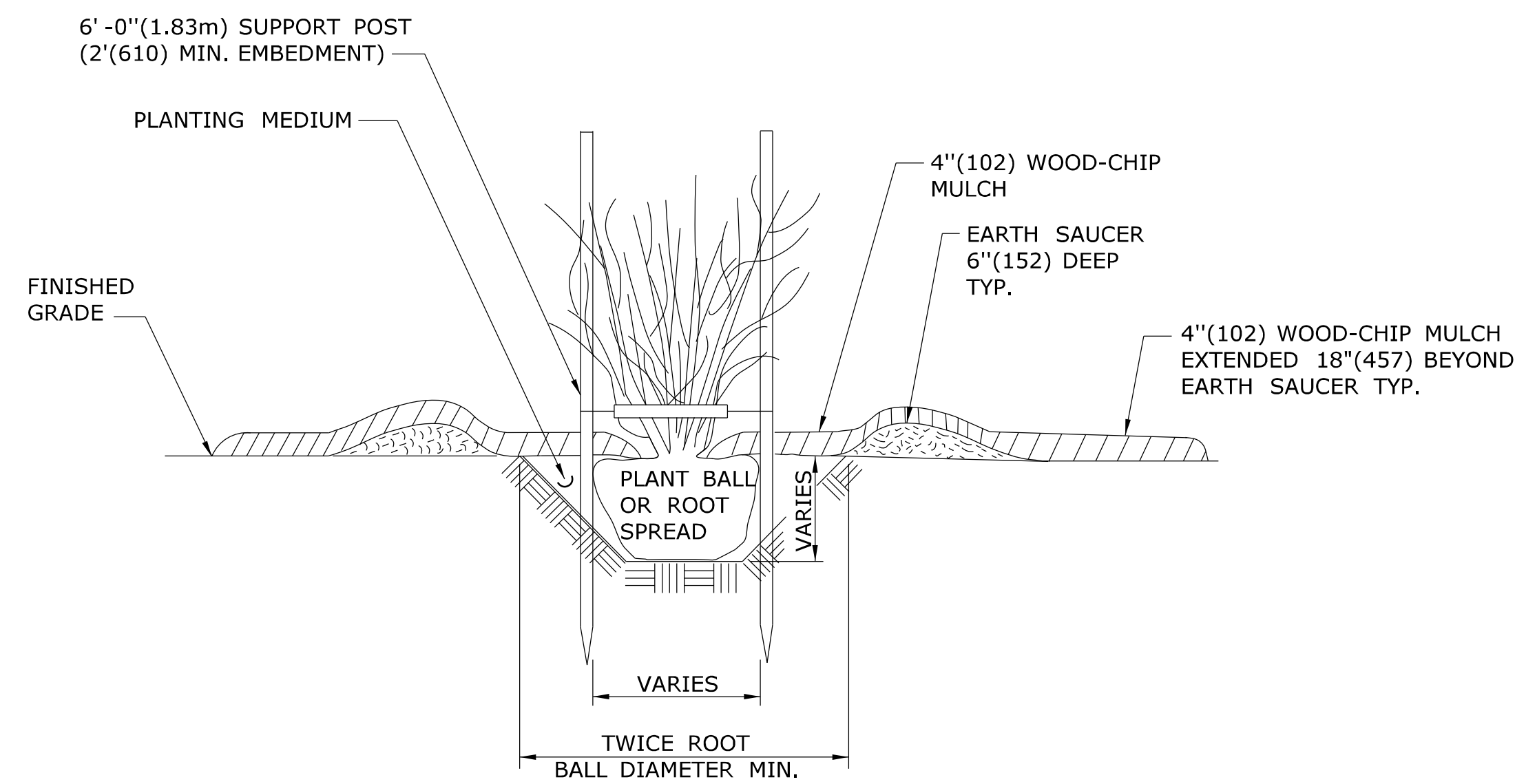
APPROVED BY: *[Signature]* NAME/DATE/TIME: James H. Norman 2012.07.12 09:44:12 -04'00'

**CTDOT
STANDARD SHEET**

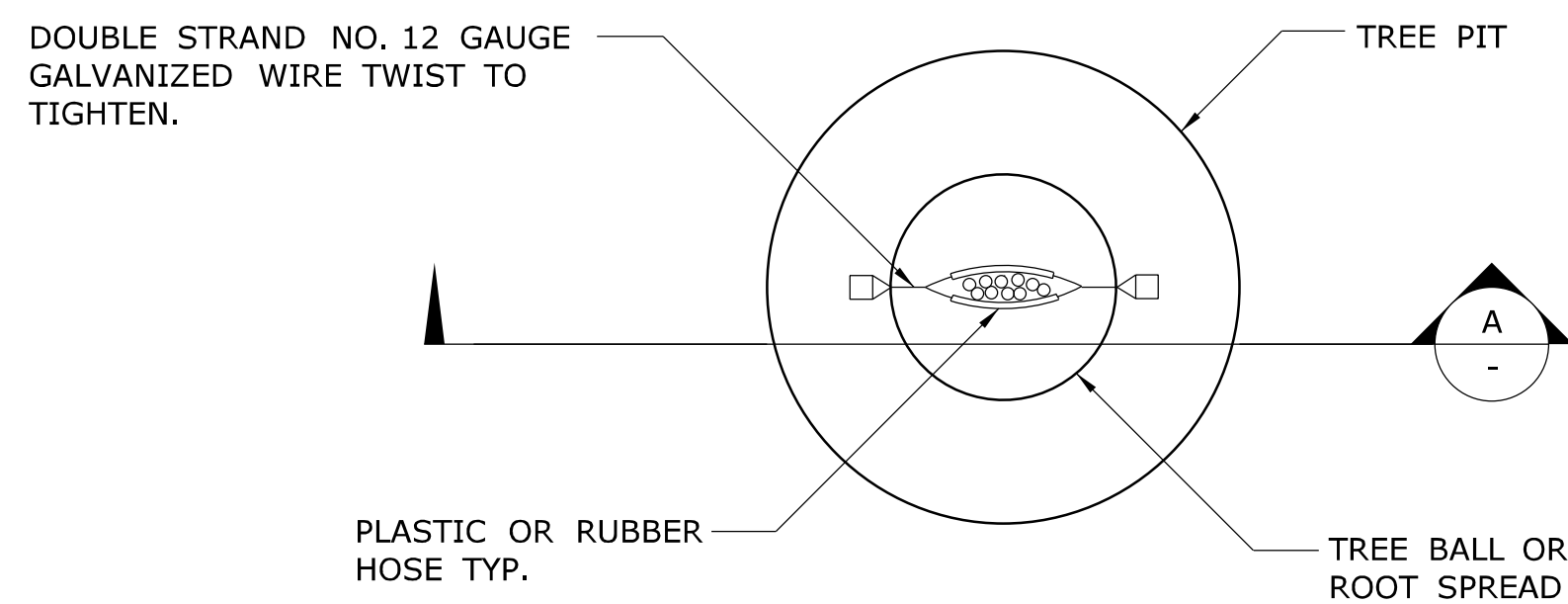
OFFICE OF ENGINEERING

STANDARD SHEET TITLE: **PLANTING DETAILS FOR TREES**

STANDARD SHEET NO.: **HW-949_01**



SECTION A



PLAN

STAKING FOR MULTI-STEMMED DECIDUOUS TREES FROM 5'(1.5m) TO 10'(3.0m) HIGH

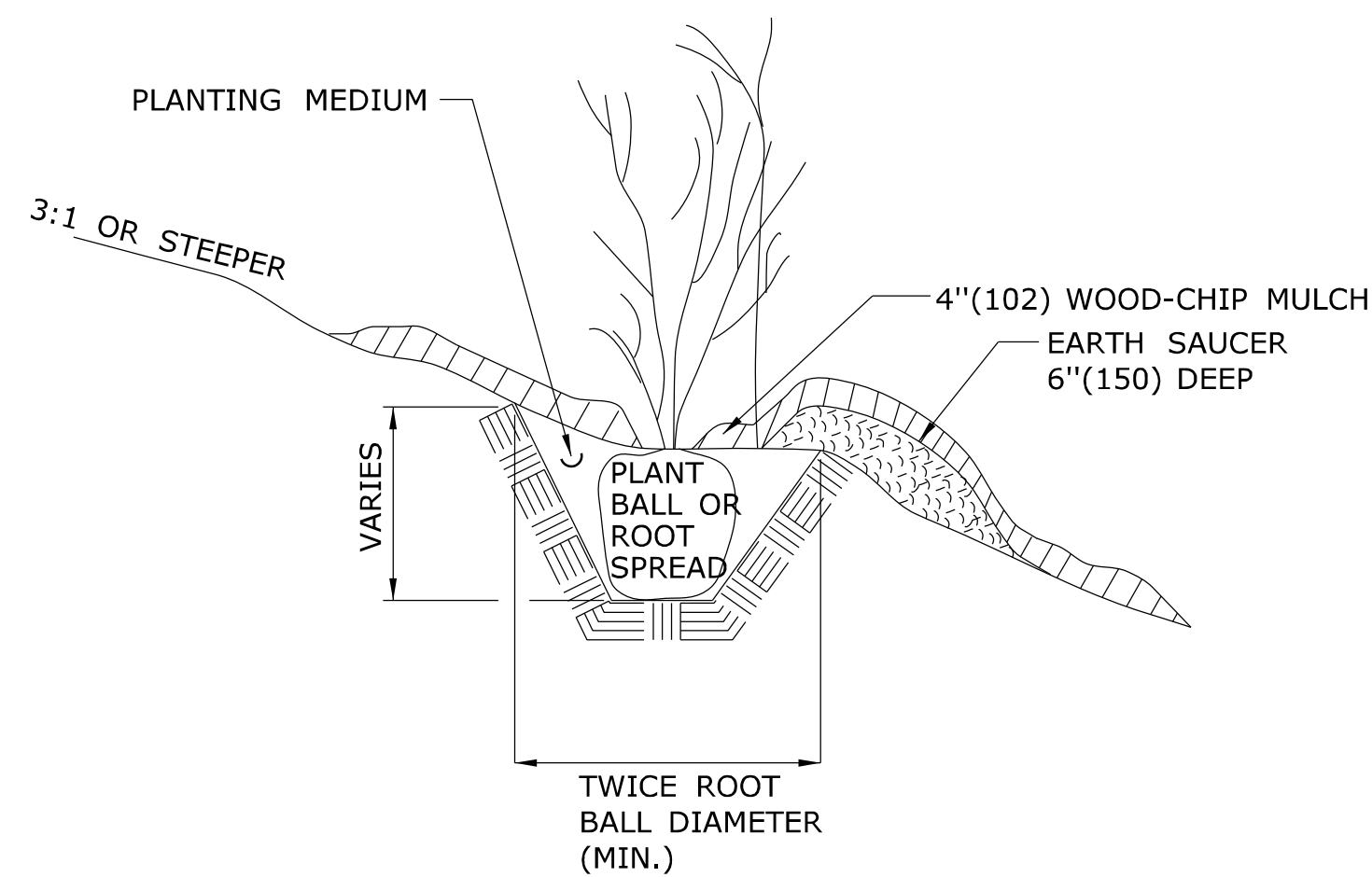
EXAMPLES OF MINIMUM CONTAINER SIZES FOR NURSERY GROWN PLANTS

CALIPER* INCHES(mm)	HEIGHT** FEET(mm)	CONTAINER SIZE GALLONS(LITERS)
-	1(305)	0.7-1.1(2.6-4.2)
-	2(610)	0.7-1.1(2.6-4.2)
-	3(914)	0.7-1.1(2.6-4.2)
-	4(1219)	1.4-2.0(5.3-7.6)
-	5(1524)	3.4-4.2(12.9-15.9)
-	6(1829)	4.7-5.4(17.8-20.4)
1(25)	7(2134)	5.8-7.8(21.9-29.5)
-	8(2438)	9.0-11.5*34.1-43.5)
1½(38)	-	12.0-16.0(45.4-60.6)
2(51)	-	25.0-29.7(94.6-112.4)
2½(64)	-	25.0-29.7(94.6-112.4)

* THE CALIPER IS MEASURED 4"(102) ABOVE GROUND LEVEL.

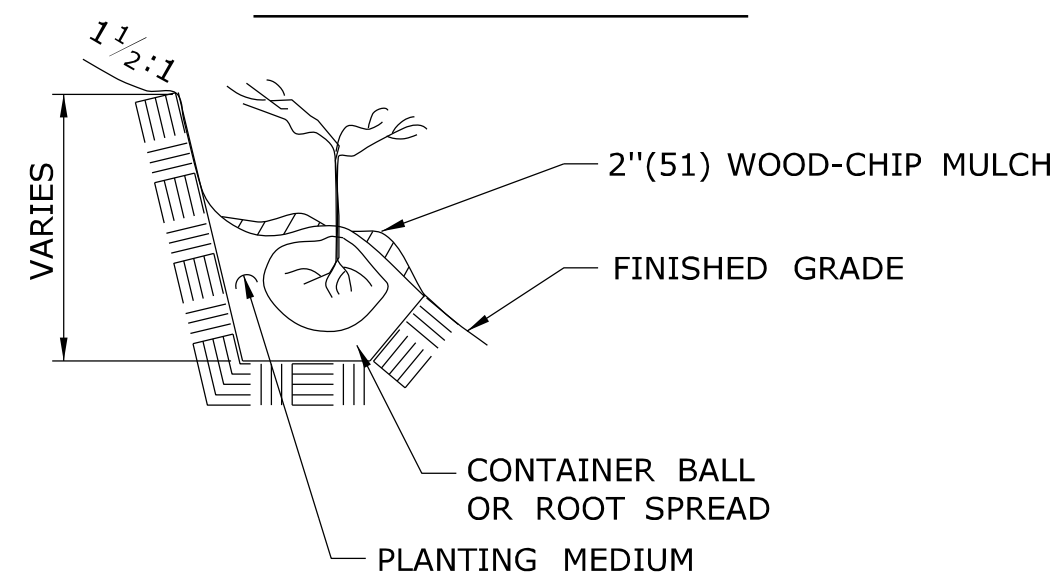
** ONLY DECIDUOUS SHRUBS ARE INCLUDED IN THIS TABLE. EVERGREEN SHRUBS ARE MEASURED BY HEIGHT BUT, CONTAINER SIZE DEPENDS ON BOTH SIZE AND SHAPE AND ARE GENERALLY 1 TO 2 SIZES LARGER THAN DECIDUOUS PLANTS.

TABLE FOR SHRUBS



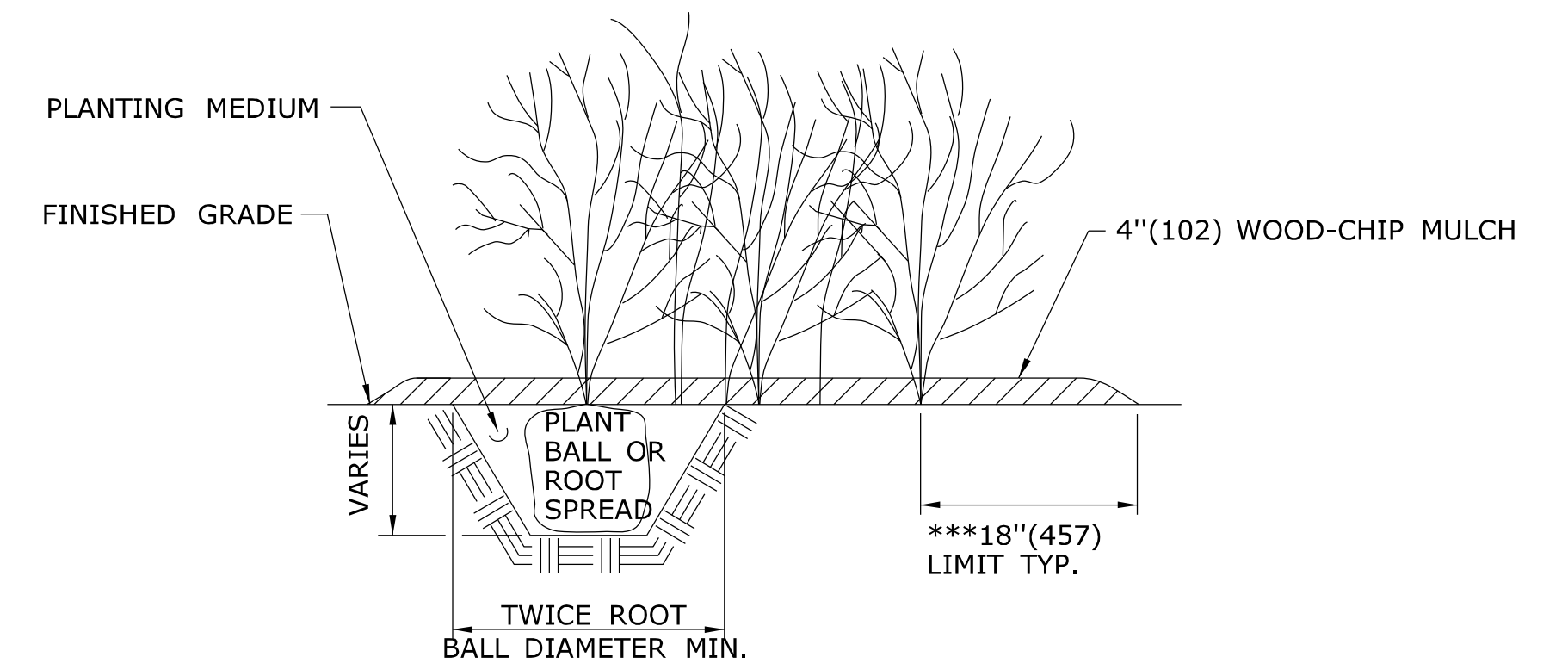
SECTION

PLANTING FOR SHRUBS IN INDIVIDUAL PITS ON SLOPES



NOTE: PLACE PLANTS AT THE SAME DEPTH THAT THE SEEDLING WAS GROWN IN THE NURSERY.

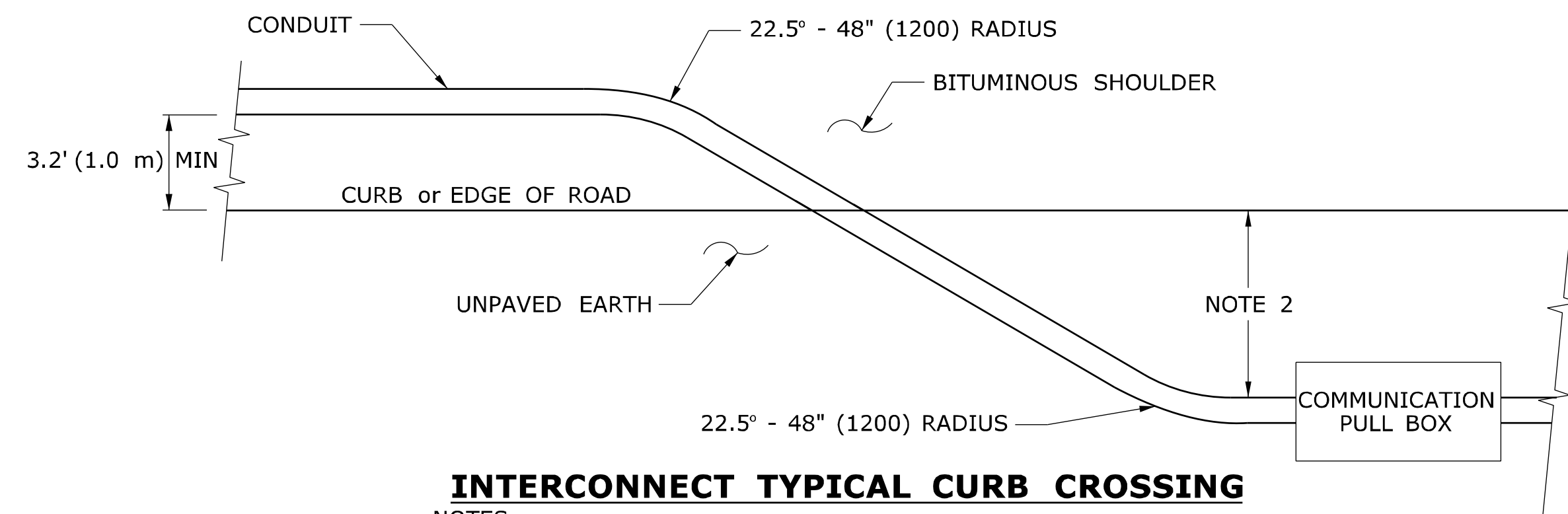
PLANTING FOR SEEDLINGS, VINES AND GROUND COVER PLANTS IN PITS ON SLOPES



*** UNLESS OTHERWISE DIRECTED, WOOD-CHIP MULCH SHALL BE PLACED TO A LIMIT OF 18"(457) BEYOND THE CENTER OF THE OUTERMOST SHRUBS IN SHRUB BED.

PLANTING FOR SHRUBS IN BEDS

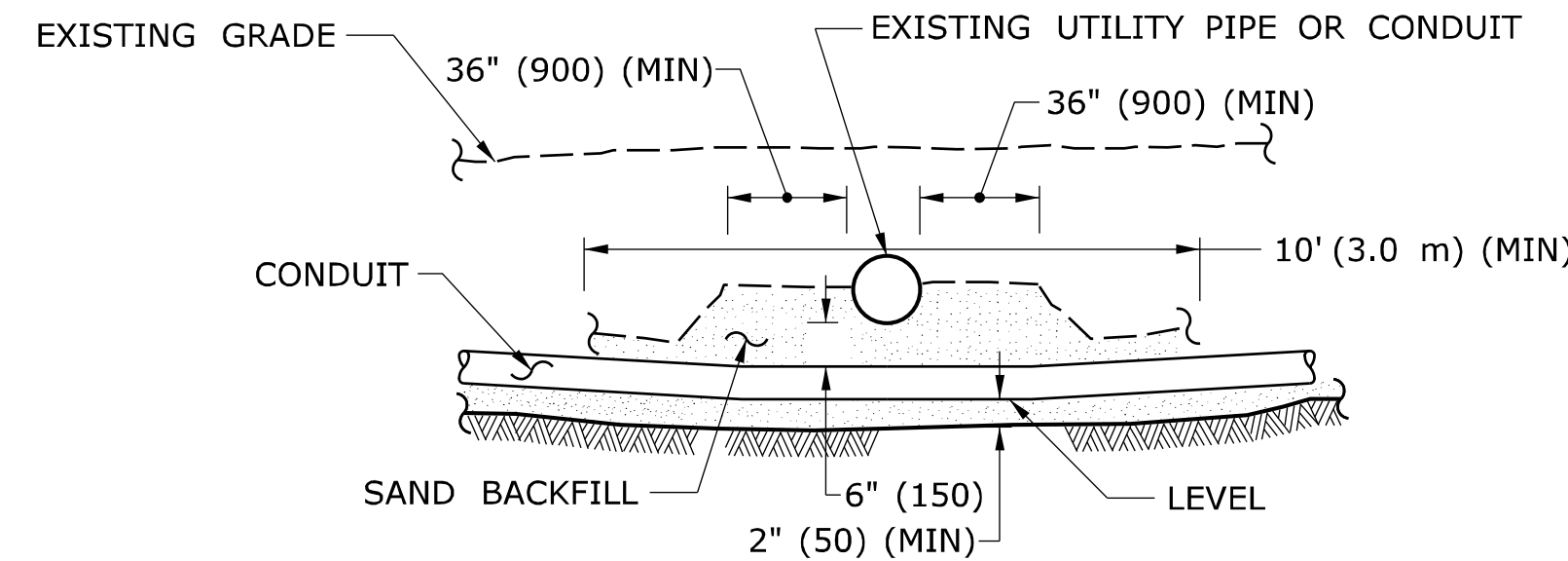
ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED



INTERCONNECT TYPICAL CURB CROSSING

NOTES:

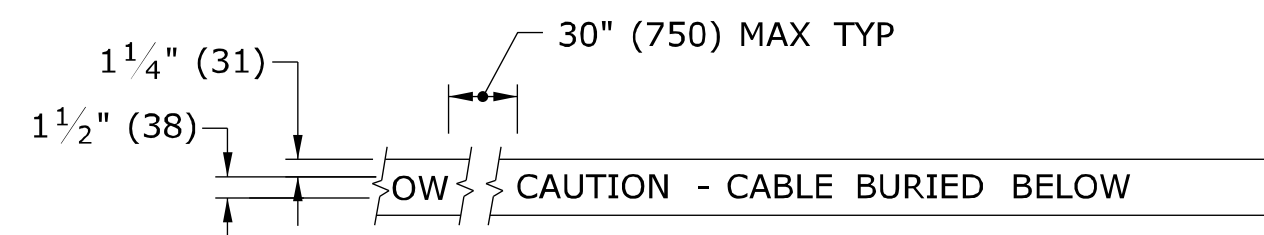
- RESTORE AREAS DISTURBED BY TRENCH TO ORIGINAL CONDITION.
- INSTALL PULL BOX A MINIMUM OF 10' (3.0 m) FROM CURB UNLESS OTHERWISE SHOWN ON PLANS OR DIRECTED BY ENGINEER.



CROSSING UNDER EXISTING UTILITY

NOTES:

- WHEN ENCOUNTERED AT APPROXIMATELY THE SAME DEPTH, CROSS BENEATH.
- PROTECT & SUPPORT EXPOSED EXISTING UTILITY.



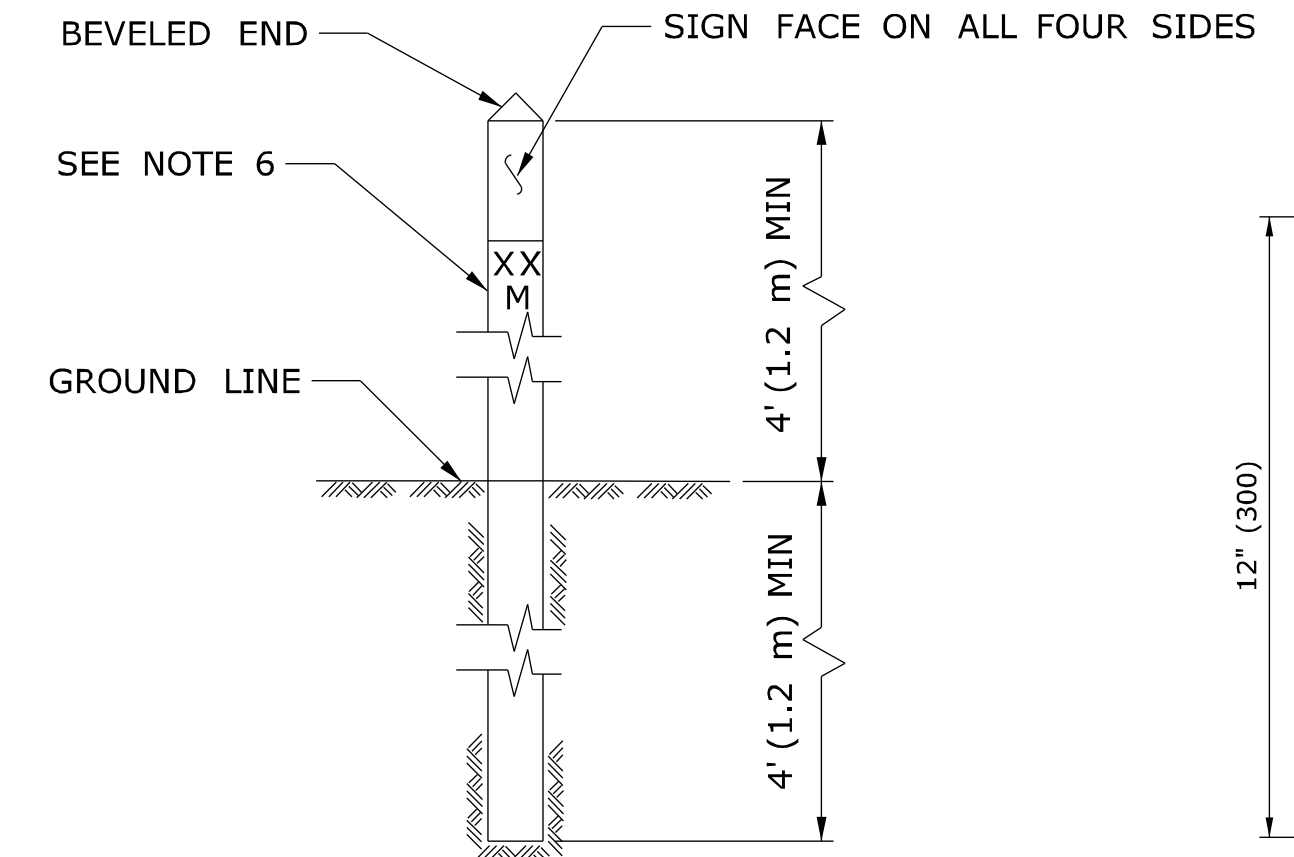
DETECTABLE WARNING TAPE

NOTE:

STANDARD SPECIFICATIONS, ARTICLE: 1.05.15

1. TAPE COLORS:

- COMMUNICATION - ORANGE BACKGROUND / BLACK LEGEND
- POWER - RED BACKGROUND / BLACK LEGEND

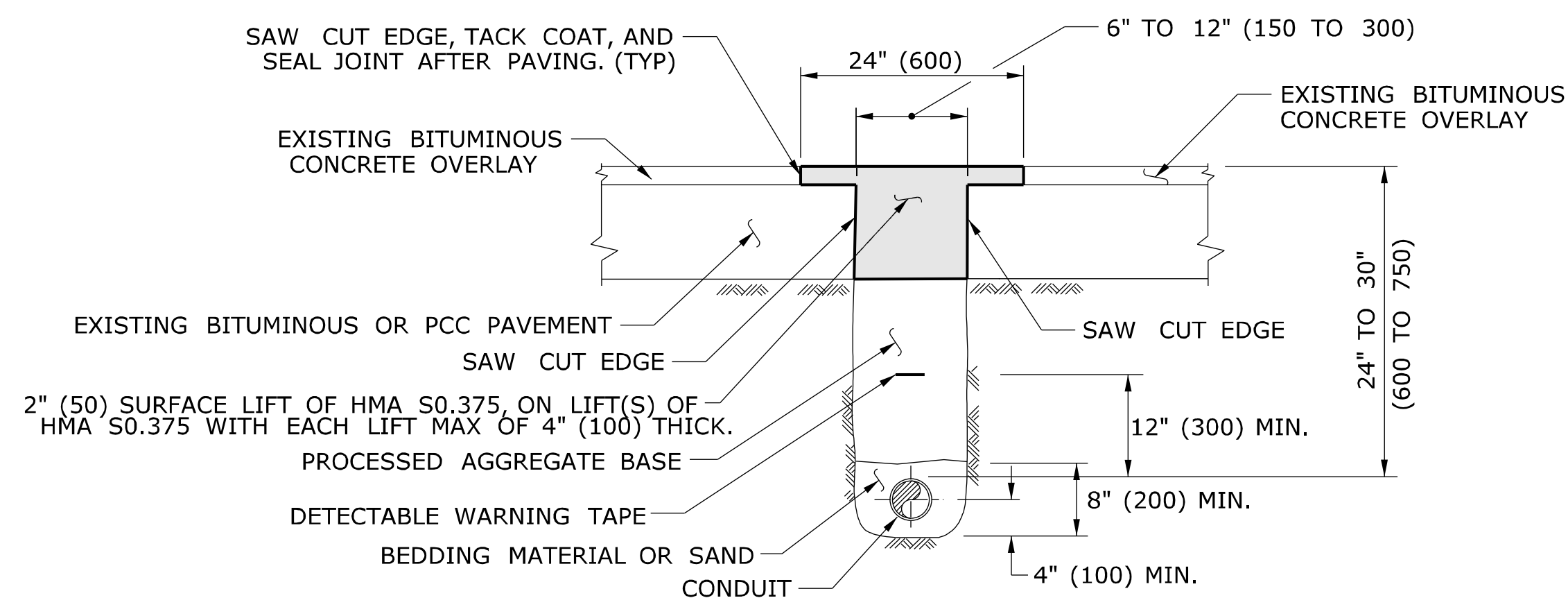


INTERCONNECT CONDUIT IDENTIFICATION POST

NOTES:

- 4" x 4" (100 x 100) NOMINAL, PRESSURE TREATED WOOD POST.
- ATTACH SIGN TO POST WITH 1/4" x 1 1/4" (6 x 31) STAINLESS STEEL LAG SCREW WITH NYLON WASHER ON FACE OF SIGN.
- SIGN COLORS: BACKGROUND - ORANGE (RETROREFLECTIVE) LEGEND - BLACK (OPAQUE).
- INSTALL POST APPROX 24" (600) FROM RMC IN VICINITY OF EACH PULL BOX.
- INSTALL POSTS BETWEEN PULL BOXES, APPROX 10' (3.0 m) OFF CURB. SPACE POSTS 1500'± (460 m±) APART.
- PERMANENTLY ATTACH STAINLESS STEEL NUMBERS INDICATING DISTANCE TO TRENCH IN FEET (METERS) CONTAINING COMMUNICATION CABLE. ATTACH NUMBERS TO SIDE OF POST FACING CONDUIT. INCLUDE "M" SUFFIX IF METERS.

SIGN FACE DETAIL
SIGN # 41-4669

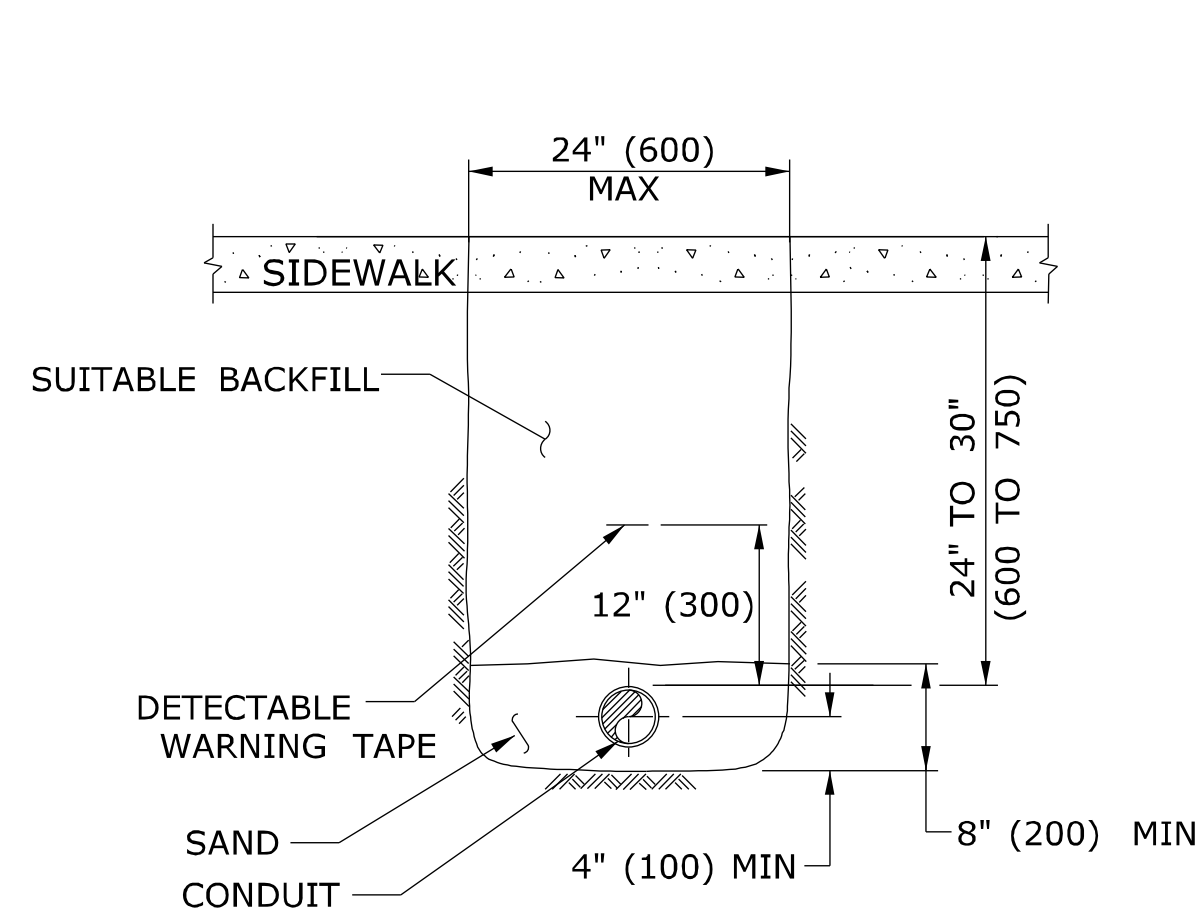


PAVEMENT - BITUMINOUS CONCRETE OR OVERLAVED PORTLAND CEMENT CONCRETE

NOTES:

STANDARD SPECIFICATIONS, ARTICLE: 3.04 & 4.06.03

- TOTAL HOT MIX ASPHALT (HMA) THICKNESS TO MATCH EXISTING BITUMINOUS CONCRETE AND PORTLAND CEMENT CONCRETE (PCC) THICKNESS.
- WHEN ALLOWED BY ENGINEER, USE CONTROLLED LOW STRENGTH MATERIAL (CLSM) AS BEDDING MATERIAL. TOP OF CLSM AT LEAST 20" (500) BELOW SURFACE.

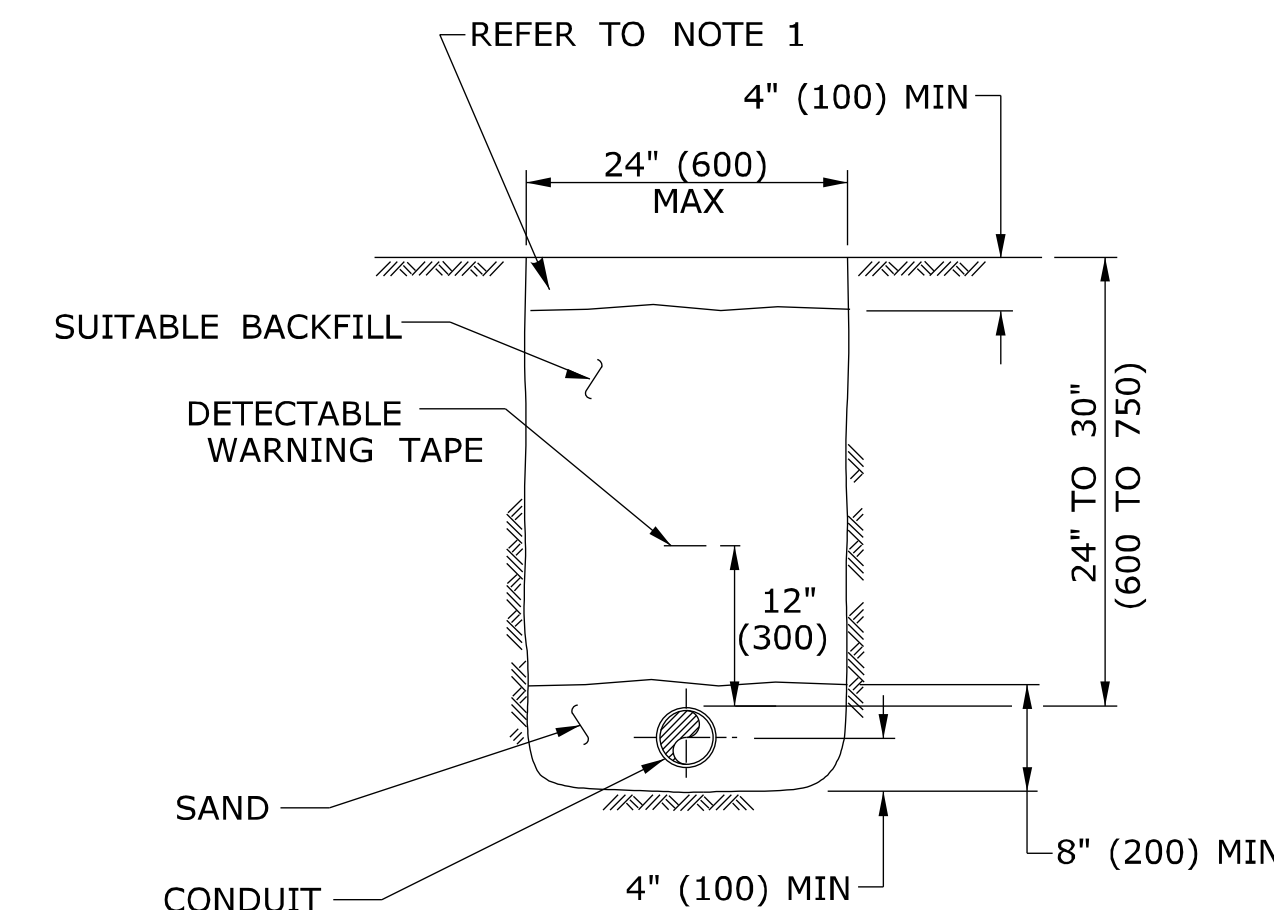


SIDEWALK

NOTES:

STANDARD SPECIFICATIONS, ARTICLE: 9.21 & 9.22

- WHERE CONCRETE SIDEWALK DAMAGED OR CUT, REPLACE THE ENTIRE SECTION BETWEEN JOINTS. REPLACEMENT SIDEWALK IS PAID FOR AT THE CONTRACT UNIT PRICE FOR "CONCRETE SIDEWALK".



EARTH

NOTES:

STANDARD SPECIFICATIONS, ARTICLE: 9.50

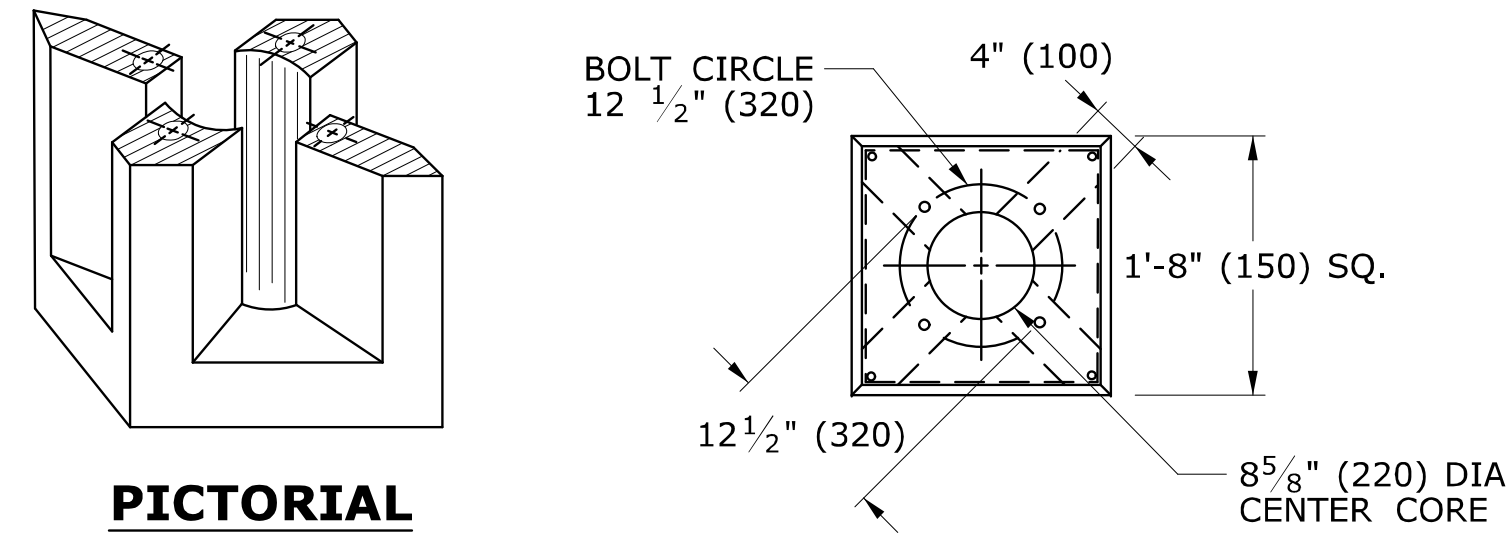
- IN MOWED AREAS: PLACE TOPSOIL, FERTILIZER, SEED, & MULCH.

GENERAL NOTES:

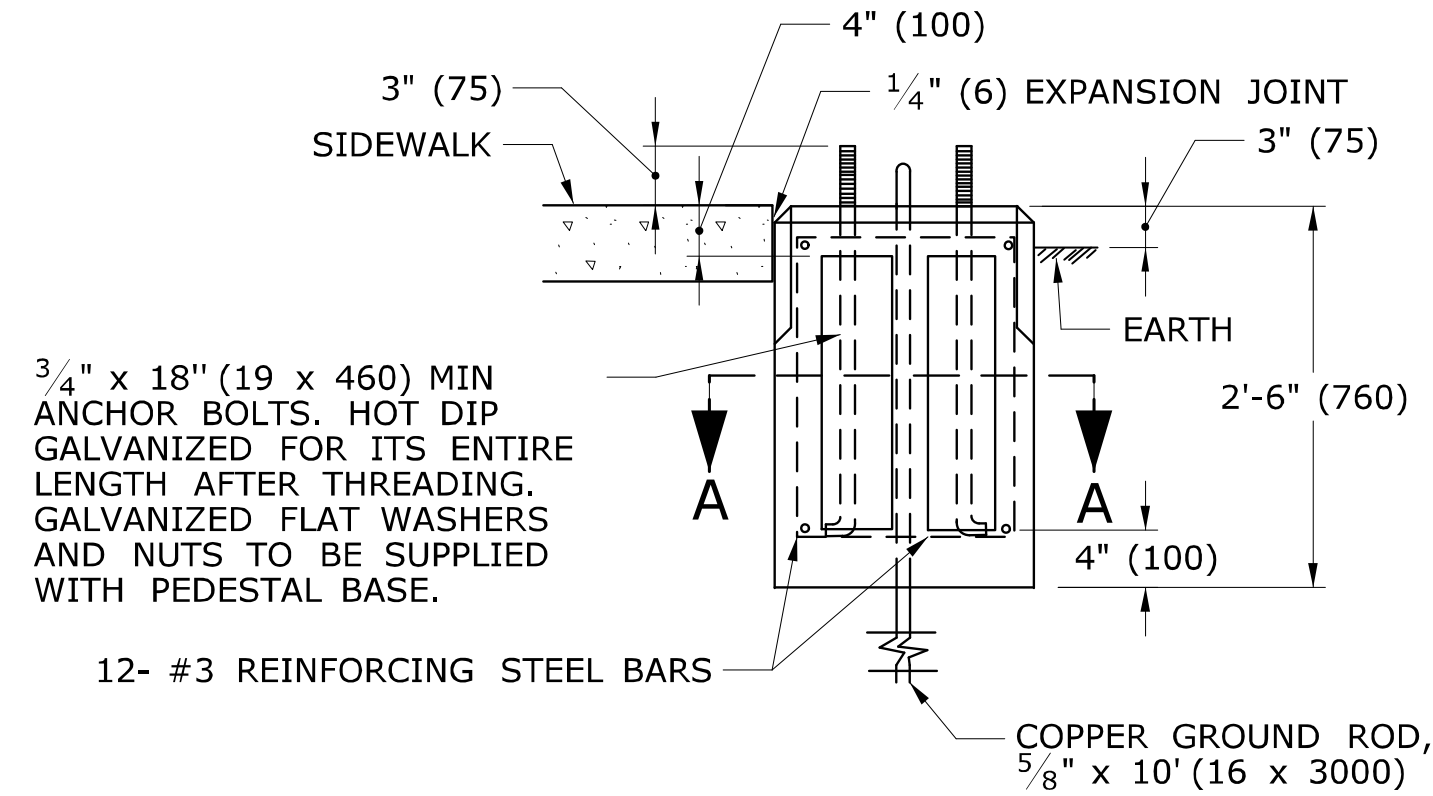
- TOP OF CONDUIT NO LESS THAN 24" (600) DEEP.
- COMPACT BACKFILL IN ≤ 6" (150) LIFTS. HAND COMPACTION NOT PERMITTED.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
--- RMC (RIGID METAL CONDUIT)

<p>1 4-2012 REVISED BITUMINOUS CONCRETE TO HMA, & MINOR REVISIONS.</p>		<p>THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.</p>	<p>DIMENSIONS ARE IN ENGLISH (") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: - OVER 1" TO NEAREST 5 mm - UNDER 1" TO NEAREST 1 mm.</p>	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	<p>SUBMITTED BY: Tracy L. Fogarty NAME/DATE/TIME: Tracy L. Fogarty 2012.05.01 12:54:42-04'00'</p>	<p>CTDOT STANDARD SHEET</p>	<p>STANDARD SHEET TITLE: TRENCHING & BACKFILLING, ELECTRICAL CONDUIT</p>	<p>STANDARD SHEET NO.: TR-1001_01</p>
<p>REV. DATE</p>	<p>REVISION DESCRIPTION</p>	<p>Plotted Date: 4/14/2012</p>	<p>NOT TO SCALE</p>	<p>Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1001_01</p>	<p>APPROVED BY: Timothy M. Wilson NAME/DATE/TIME: Timothy M. Wilson 2012.05.09 10:23:34-04'00'</p>	<p>OFFICE OF ENGINEERING</p>		



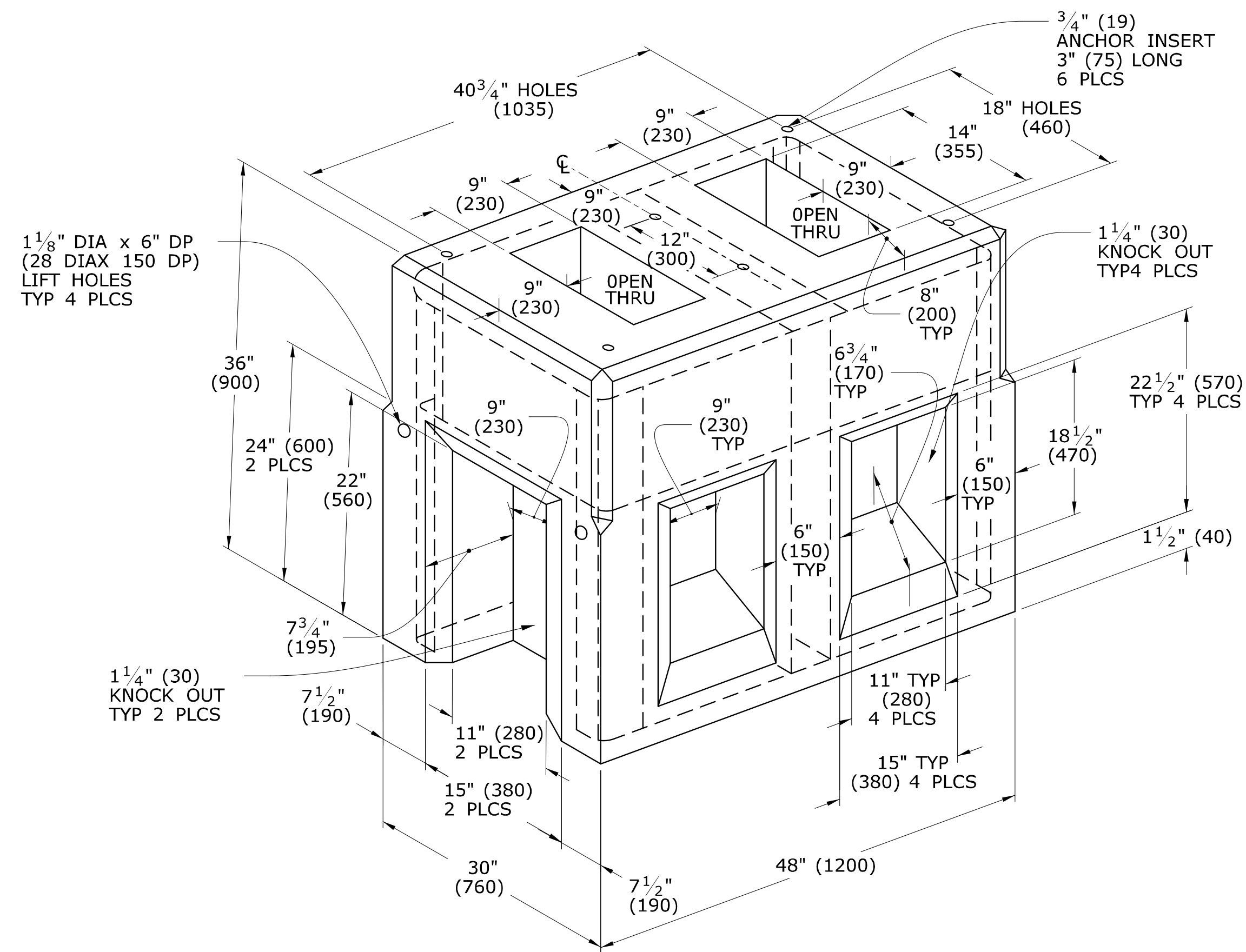
PICTORIAL SECTION A-A



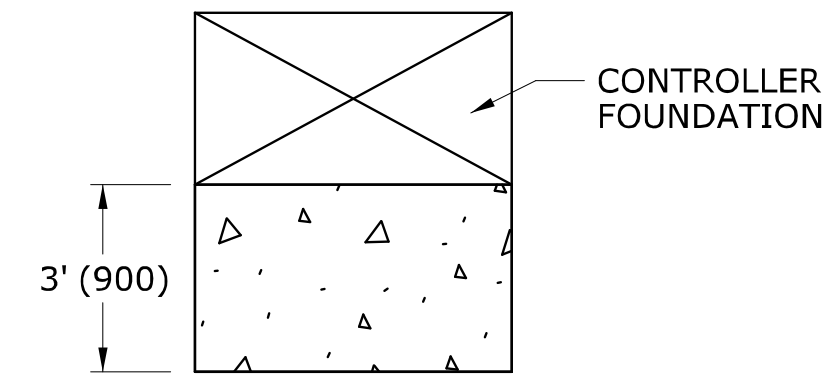
TRAFFIC CONTROL FOUNDATION PEDESTAL - TYPE I - PRECAST

NOTES:

PLACE NO. 6 CRUSHED STONE IN CENTER OPENING AFTER CONDUITS AND GROUND ROD HAVE BEEN INSTALLED.

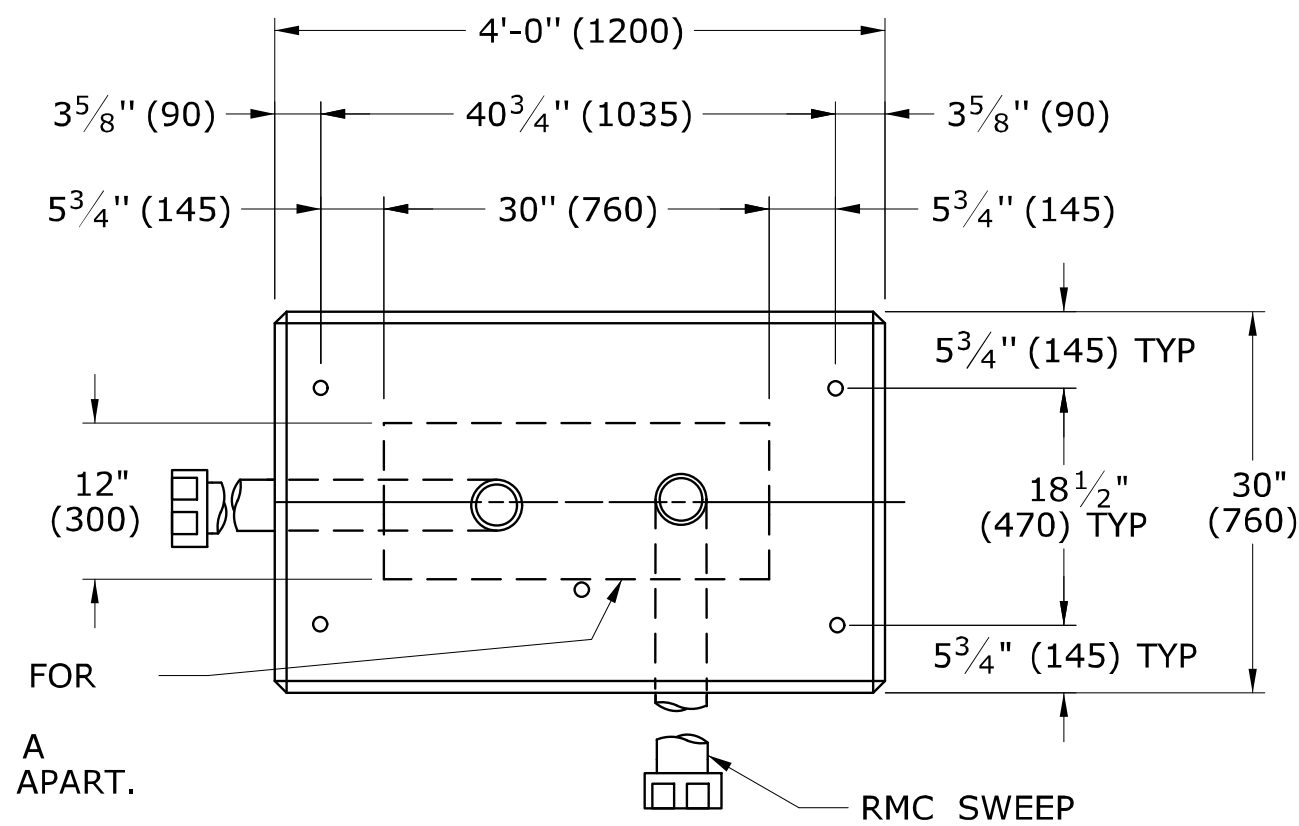


TRAFFIC CONTROL FOUNDATION CONTROLLER - TYPE IV - PRECAST

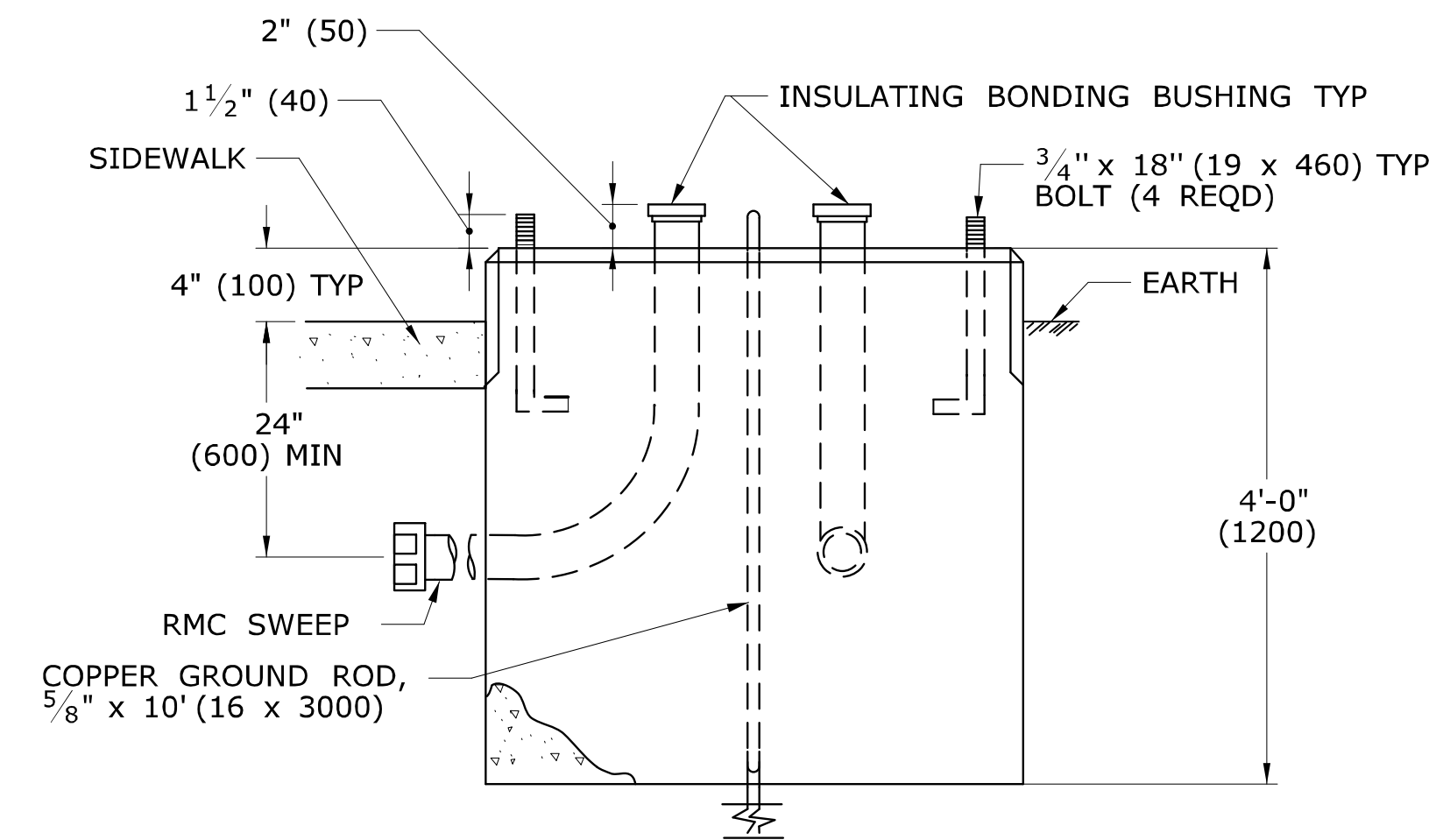


INSTALL PRECAST OR CAST IN PLACE CONCRETE SIDEWALK ON CABINET DOOR SIDE OF CONTROLLER FOUNDATION.
 PITCH SIDEWALK 1/4" PER FOOT (20 PER METER) AWAY FROM THE CONTROLLER FOUNDATION.
 REFER TO HIGHWAY STANDARD SHEET HW-921.01 FOR SIDEWALK CONSTRUCTION.

TYPICAL CONCRETE SIDEWALK AT CONTROLLER FOUNDATION



AREA OF LIMITATION FOR CONDUIT SWEEPS. SEPARATE CONDUITS A MINIMUM OF 2" (50) APART.



TRAFFIC CONTROL FOUNDATION CONTROLLER - TYPE IV - CAST IN PLACE

NOTES:

INSTALL FOUNDATION ON 6" (150) OF COMPACTED GRAVEL IN ACCORDANCE WITH SECTION 2.14. LEVEL FOUNDATION WITH A PROJECTION OF 4" (100) ABOVE FINISHED GRADE.
 INSTALL COPPER GROUND ROD: 5/8" x 10 (16 x 3000).
 PLACE NO. 6 CRUSHED STONE IN THE CENTER OPENINGS AFTER THE CONDUITS AND GROUND ROD HAVE BEEN INSTALLED. THE OPENINGS SHALL BE CAPPED WITH A 2" (50) GROUT LEVEL WITH THE TOP OF THE FOUNDATION AND NEATLY FINISHED. THE GROUT SHALL CONFORM WITH THE REQUIREMENTS OF ARTICLE M.3.01-12.
 CONCRETE: CLASS "A" CONFORMING TO ARTICLE M.03.01.
 #4 REBAR 2" (50) MIN COVER AROUND ALL OPENINGS, 3-#4 REBARS IN EACH CORNER.
 CONDUITS SHALL NOT PROJECT MORE THAN 2" (50) ABOVE FOUNDATION.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:	
	PROPOSED CONTROLLER
	EXISTING CONTROLLER
	PROPOSED STEEL SPAN POLE
	EXISTING STEEL SPAN POLE

REV.	DATE	REVISION DESCRIPTION
2	1-2014	REMOVED SPAN POLE FOUNDATION DETAILS, REVISED TYPICAL CONCRETE SIDEWALK AT CONTROLLER FOUNDATION.
1	4-2012	MINOR REVISIONS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 1/7/2014

DIMENSIONS ARE IN ENGLISH ("') & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: - OVER 1" TO NEAREST 5 mm. - UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

File name: CTDOT_TRAFFIC_STD.DGN Model: TR-1002_01

SUBMITTED BY: NAME/DATE/TIME: Tracy L. Fogarty Tracy L. Fogarty 2014.01.07 16:12:06-05'00'

APPROVED BY: NAME/DATE/TIME: Charles S. Harlow Charles S. Harlow 2014.01.08 09:02:54-05'00'

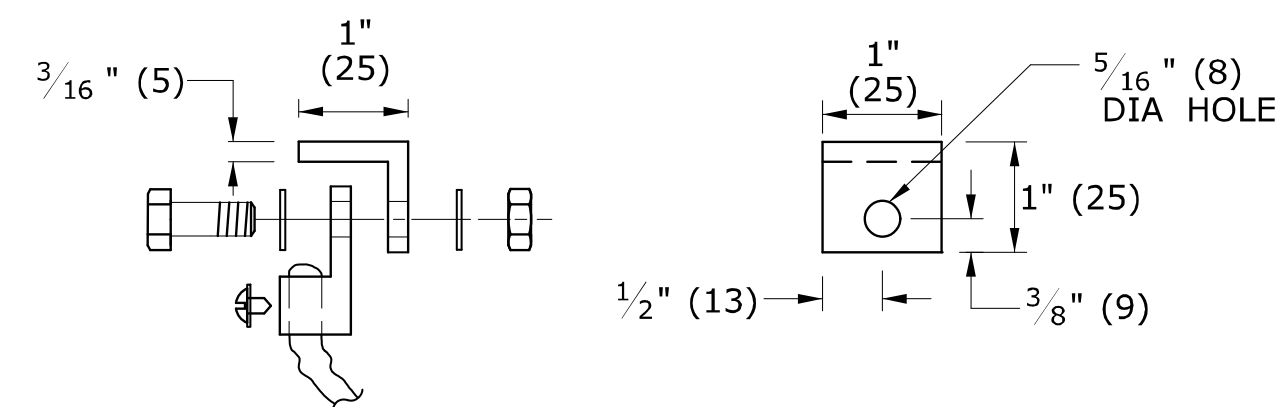
CTDOT STANDARD SHEET OFFICE OF ENGINEERING

STANDARD SHEET TITLE: TRAFFIC CONTROL FOUNDATIONS

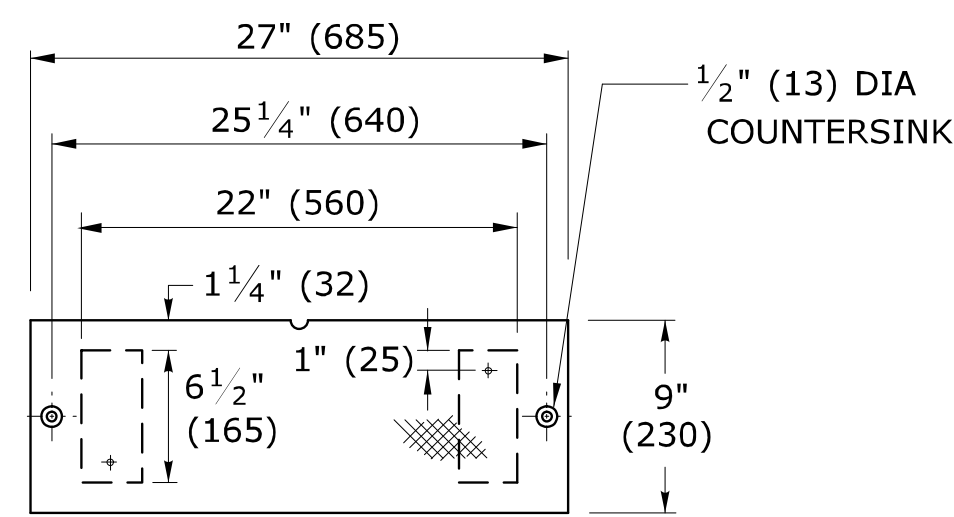
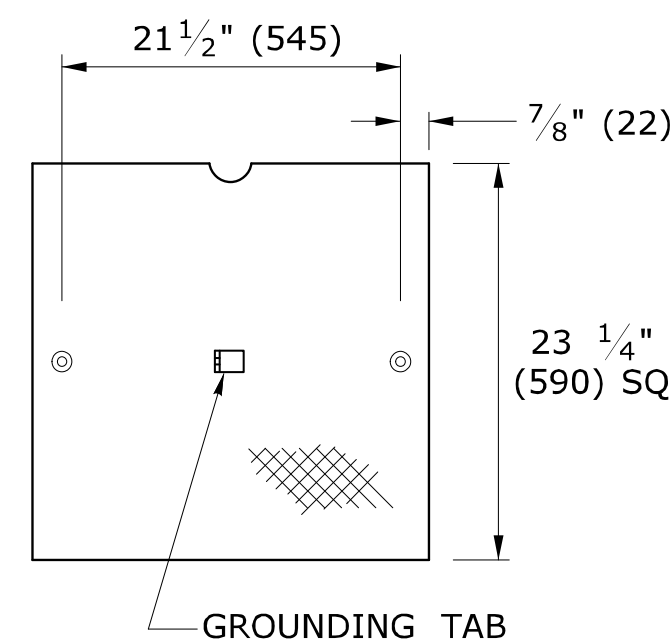
STANDARD SHEET NO.: TR-1002_01

COVER NOTES:

1. GROUNDING TAB WELDED TO BOTTOM CENTER OF COVER WITH 3/16" (5) WELD (3 SIDES).
2. ATTACH 6' (2 m) LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH CONDUCTOR CONNECTOR, 1/4" - 20 X 3/4" (M6 X 20) LG SST HEX HEAD BOLT, AND SST FLAT WASHER. ATTACH FREE END OF GROUND WIRE TO CONDUIT BONDING BUSHING IN HANDHOLE.
3. CONDUCTOR CONNECTOR: COPPER ALLOY BODY, BRASS SCREW, BRASS OR COPPER ALLOY PRESSURE PLATE.
4. COVER SCREW INSERT: 3/8"-16 (9-16), 1 1/2" L (37L), STAINLESS STEEL.
5. COVER SCREW: 3/8"-16 (9-16), 1" L (25L), FLAT HEAD, SLOTTED, STAINLESS STEEL.

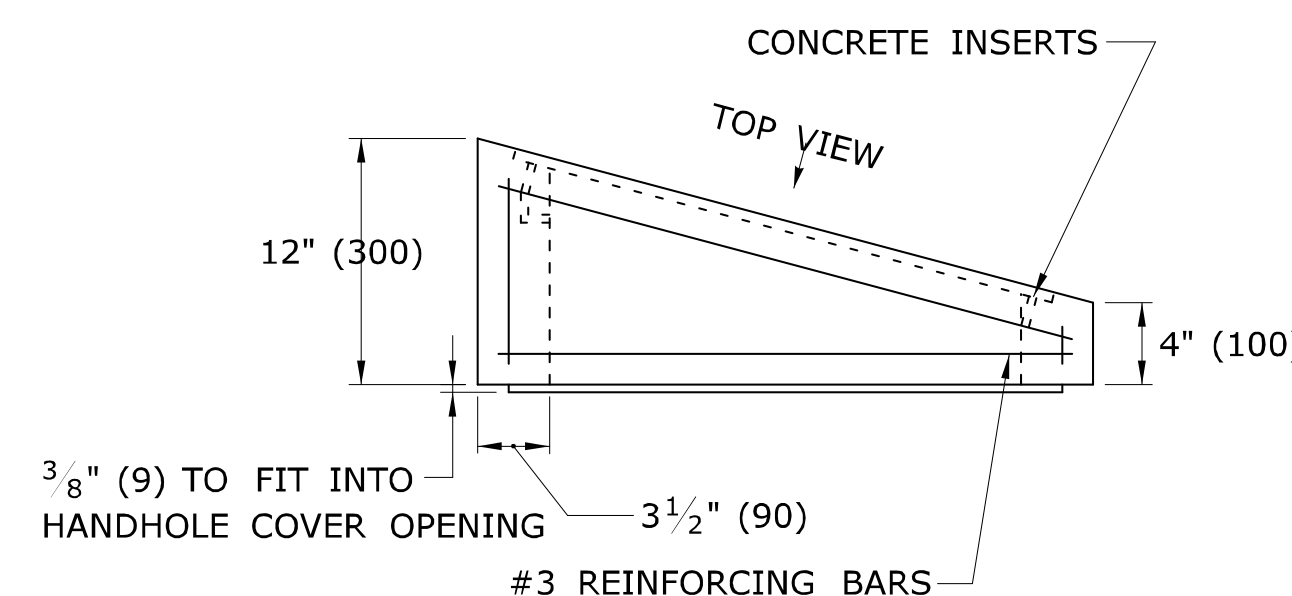
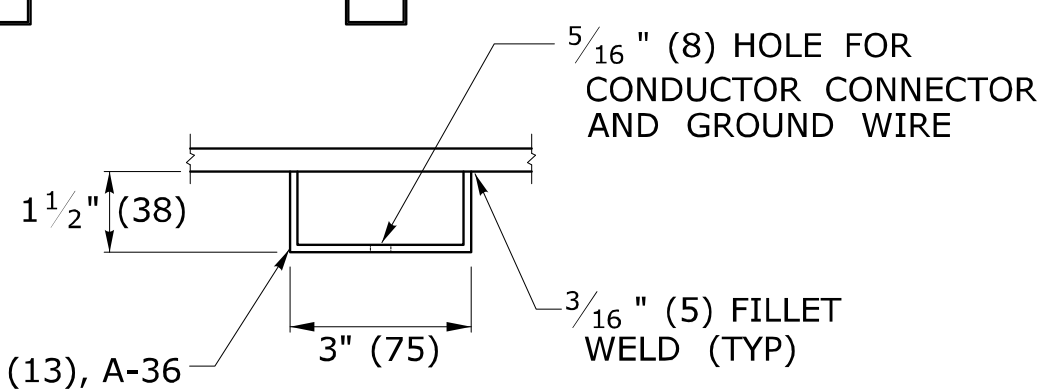


**STEEL GROUNDING TAB
w/ CONDUCTOR CONNECTOR**

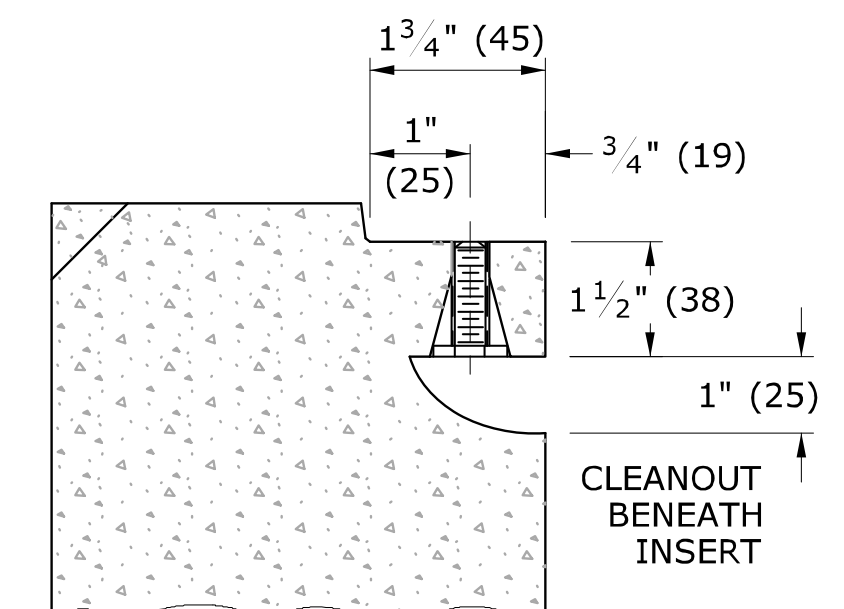


**NON SKID FLOOR PLATE
GALVANIZED STEEL, 3/8" (10)**

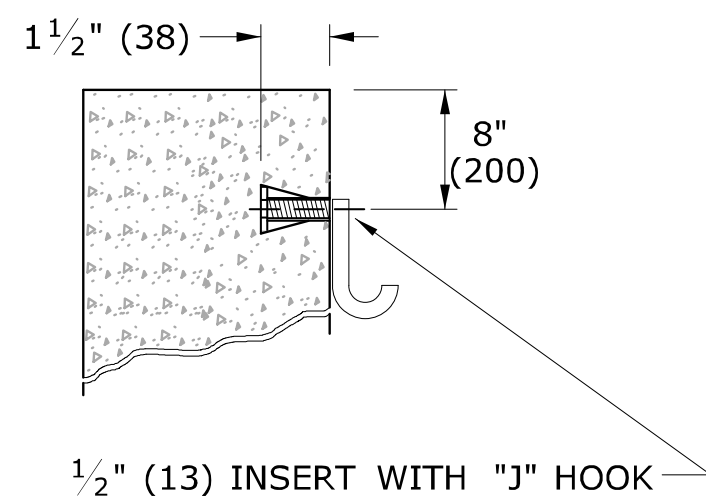
C-CHANNEL 0.250" (13), A-36



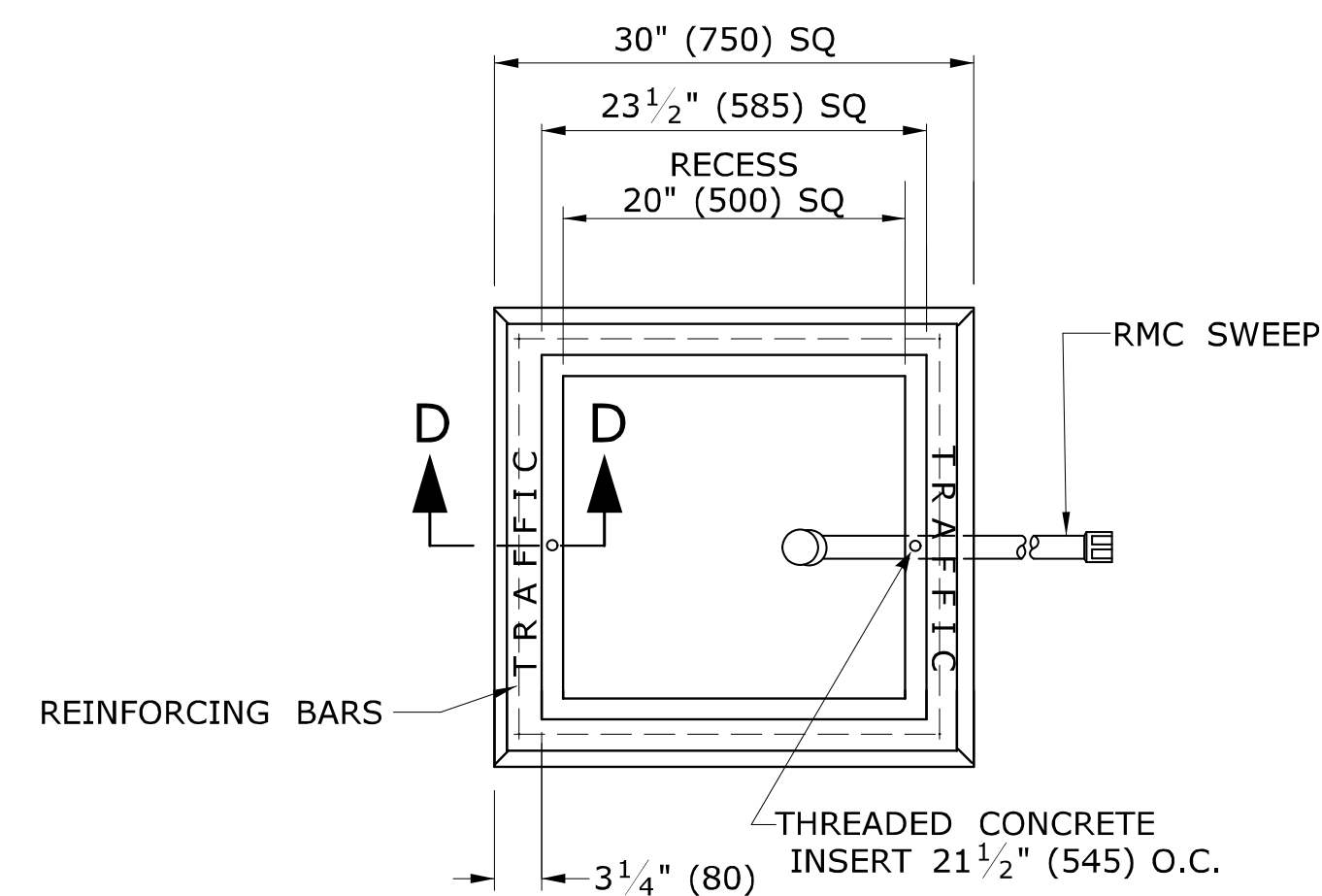
BANK ADAPTER



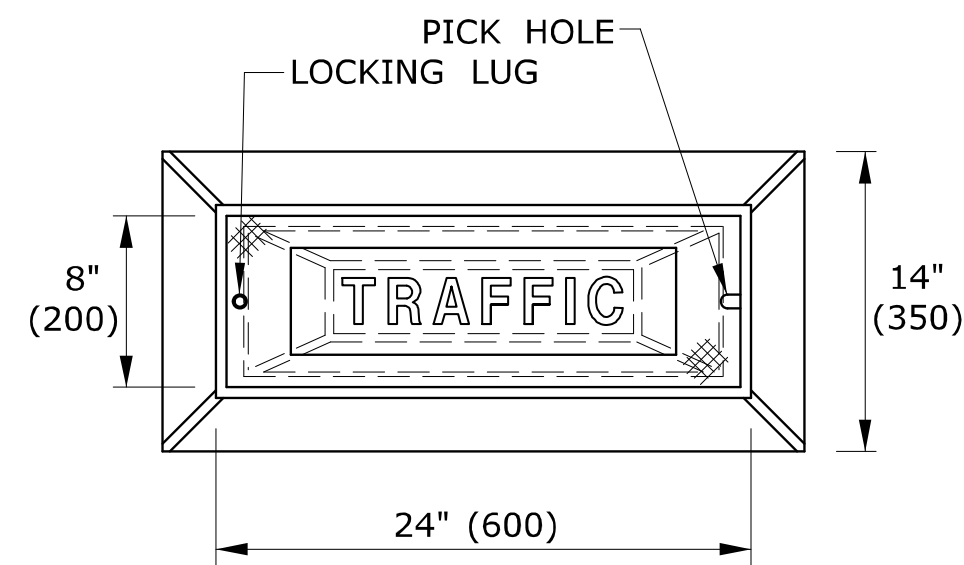
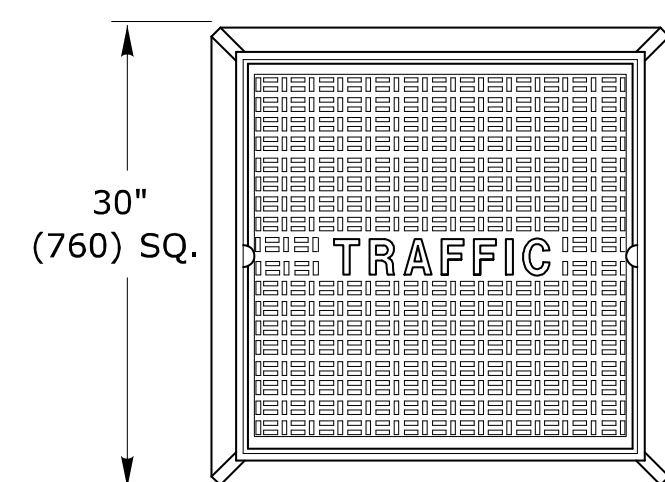
SECTION D-D



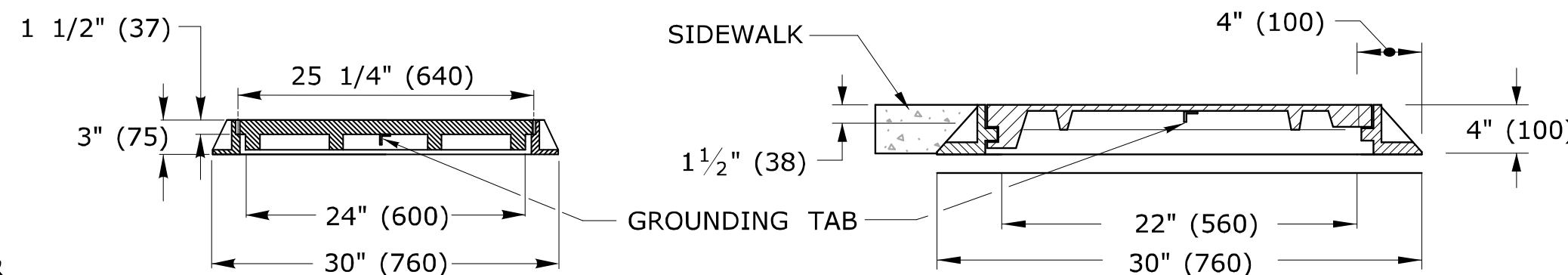
INSERT DETAIL
TYP IN TWO PLACES FOR ALL HANDHOLES



PLAN VIEW

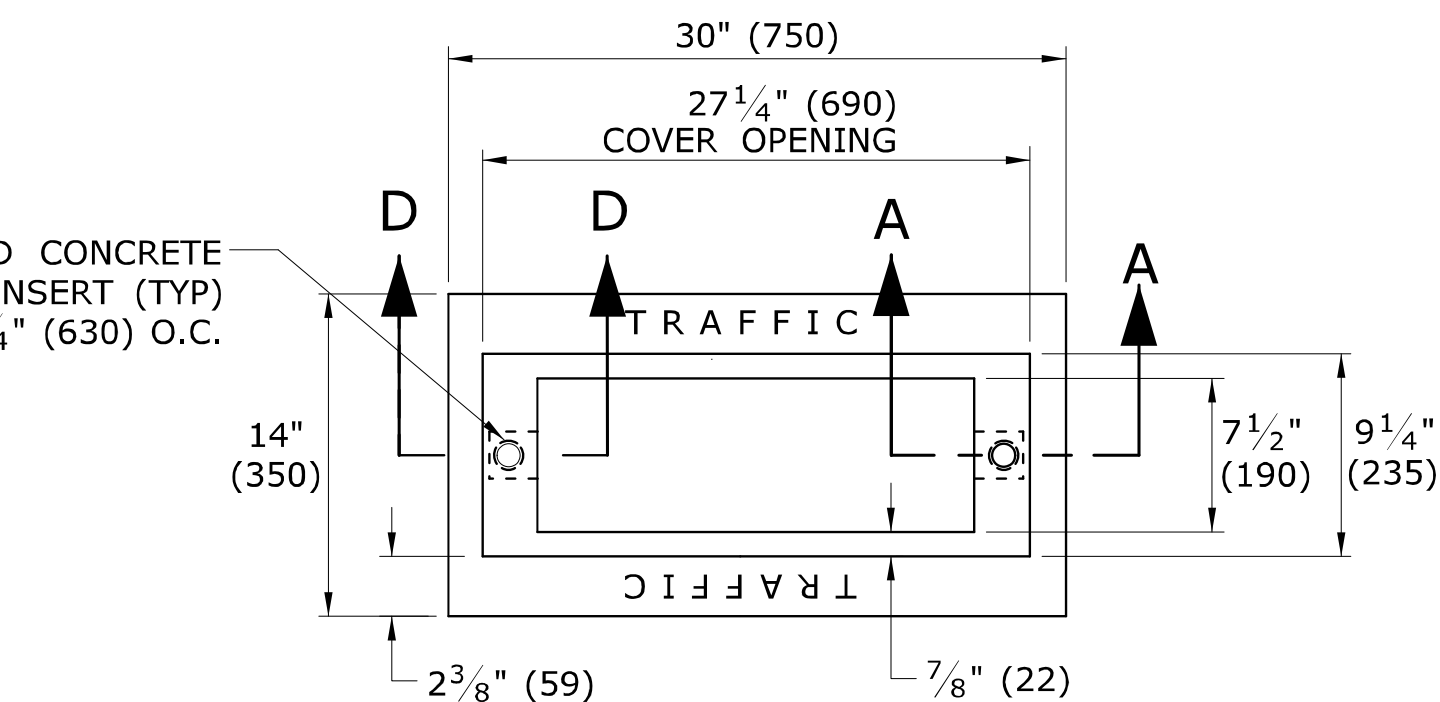


**CAST IRON
HANDHOLE COVERS**

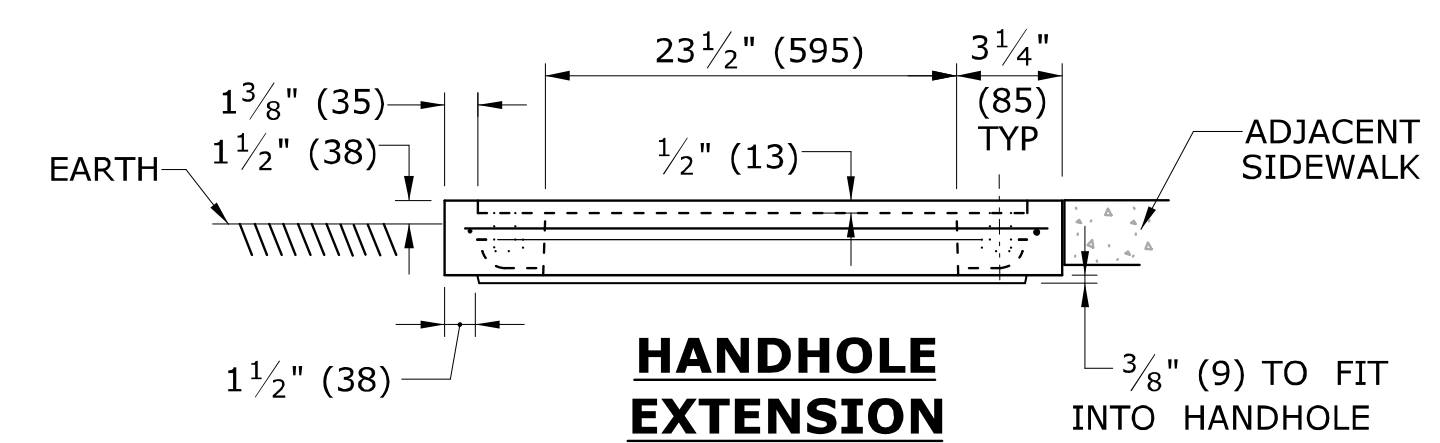


**SECTION A-A
HANDHOLE EXTENSIONS**

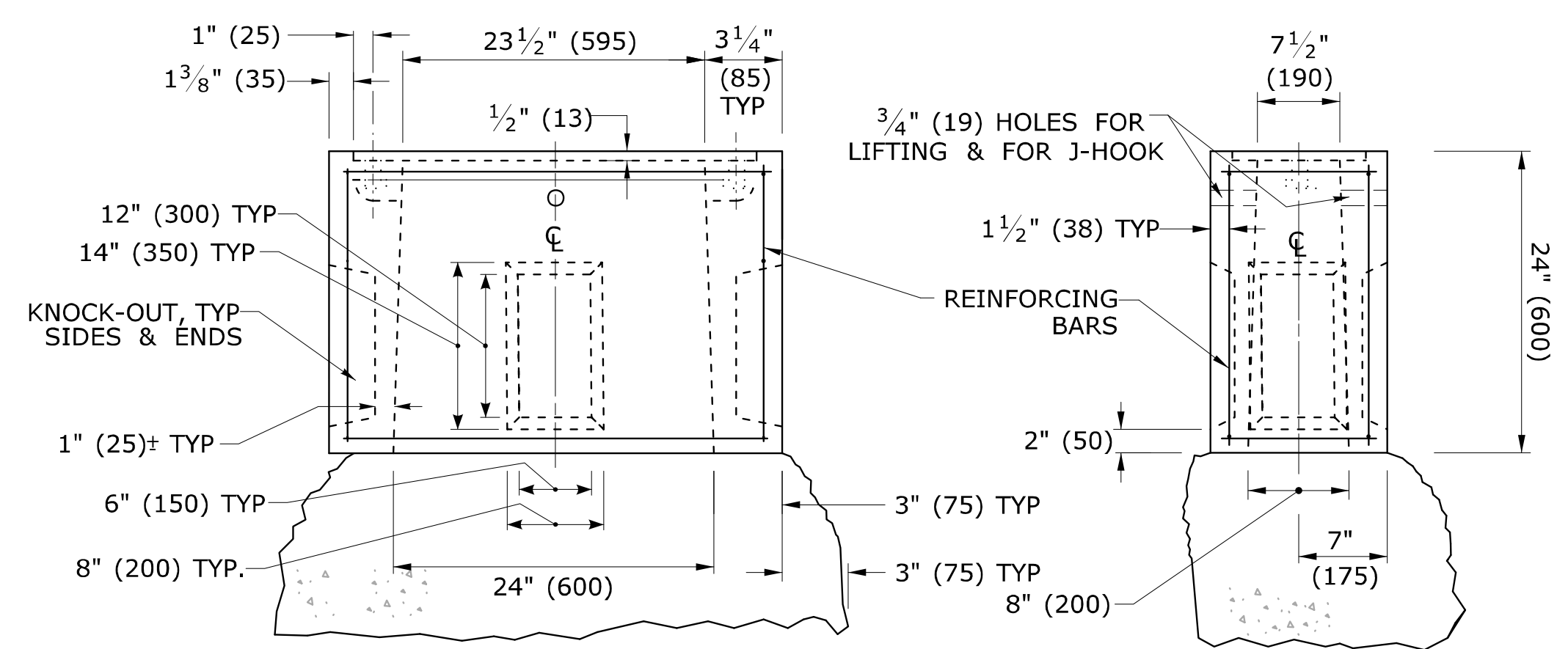
4 - #8 REINFORCING BARS REQ'D



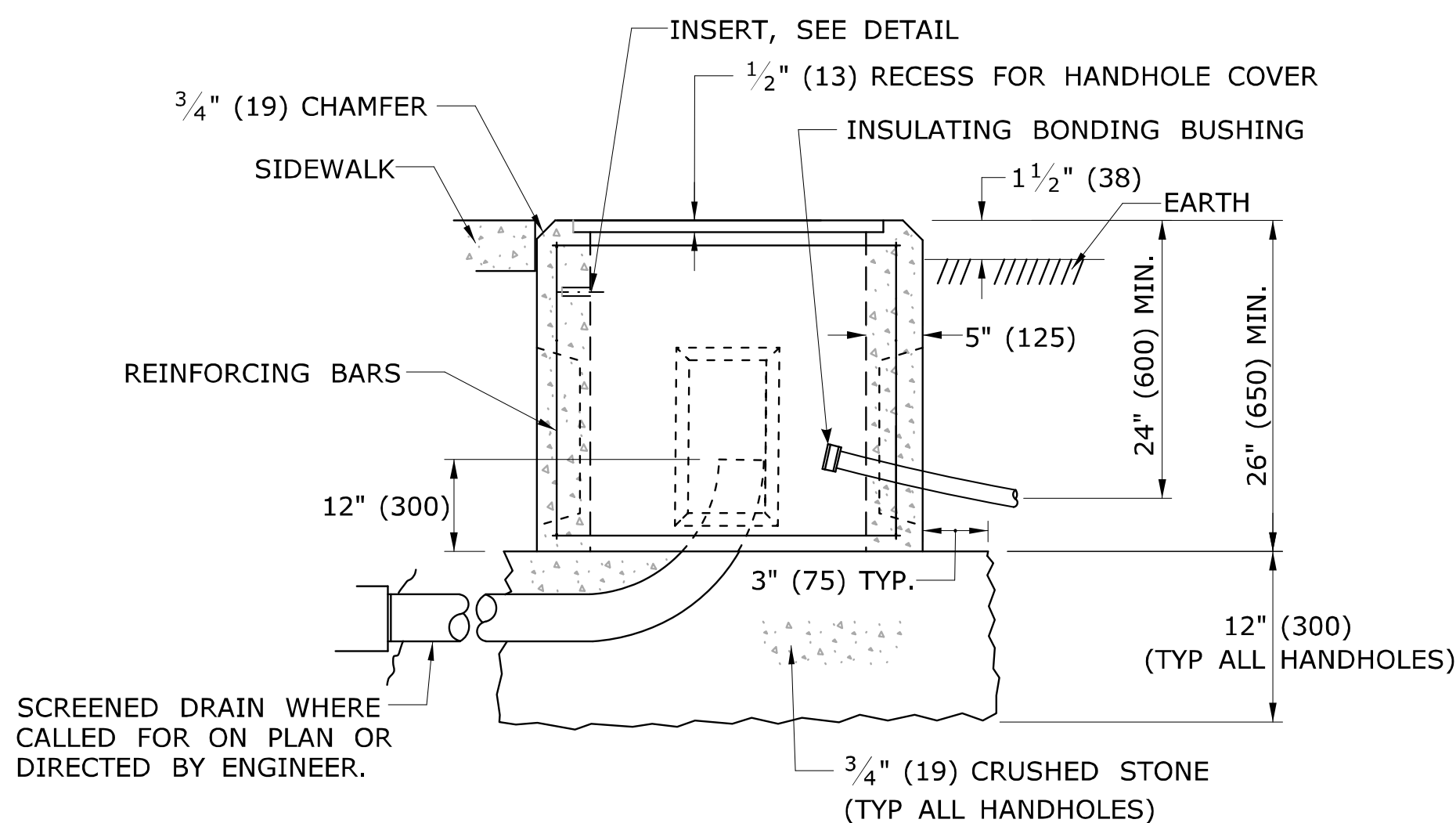
PLAN VIEW



**HANDHOLE
EXTENSION**



**BASE SECTION
CONCRETE HANDHOLE TYPE II**



CONCRETE HANDHOLE TYPE I

HANDHOLE NOTES:

1. MINIMUM CLASS "C" CONCRETE.
2. COMPLETE TYPE II HANDHOLE:
IN EARTH AREAS, CONSISTS OF A BASE SECTION WITH 4" (100) HANDHOLE EXTENSION,
IN SIDEWALK AREAS, CONSISTS OF A BASE SECTION WITH 4" (100) CAST IRON COVER.
3. PLAN VIEW DIMENSIONS, SECTION VIEW, & DETAILS, SAME FOR BASE SECTION, EXTENSIONS & BANK ADAPTER.
4. GROUT AROUND ALL CONDUITS.

5. INSTALL 30" (750) SIDE PARALLEL TO ROAD UNLESS OTHERWISE NOTED.
6. INSTALL HANDHOLES APPROX. 12" (300) BEHIND CURB OR
IF NO CURB, 24" (600) BEHIND EDGE OF ROAD UNLESS OTHERWISE SPECIFIED.
7. CAST THE WORD "TRAFFIC" INTO TOP EDGE OF HANDHOLE, 1 1/2" (38) LETTERS.
8. WHERE AN EXISTING CONCRETE SIDEWALK SLAB ABUTTING A HANDHOLE IS DAMAGED OR CUT DURING INSTALLATION, REPLACE THE ENTIRE SIDEWALK SECTION.
9. 12-#3 REINFORCING BARS REQUIRED FOR ALL HANDHOLES. (8 HORIZONTAL, 4 VERTICAL)

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
 PROPOSED HANDHOLE
 EXISTING HANDHOLE

REV.	DATE	REVISION DESCRIPTION
2	4-2014	REVISED HANDHOLES NOTES, ADDED NOTE #6. ADDED "J" HOOK TO INSERT DETAIL.
1	4-2012	CAST IRON COVER: CHANGED BOLT TO PICK HOLE. ADDED EXTENSIONS, C-CHANNEL, CONDUCTOR CONNECTOR & MINOR REVISIONS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.
 Plotted Date: 4/11/2014

DIMENSIONS ARE IN ENGLISH ("') & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: - OVER 1" TO NEAREST 5 mm - UNDER 1" TO NEAREST 1 mm.
 NOT TO SCALE

STATE OF CONNECTICUT
 DEPARTMENT OF TRANSPORTATION
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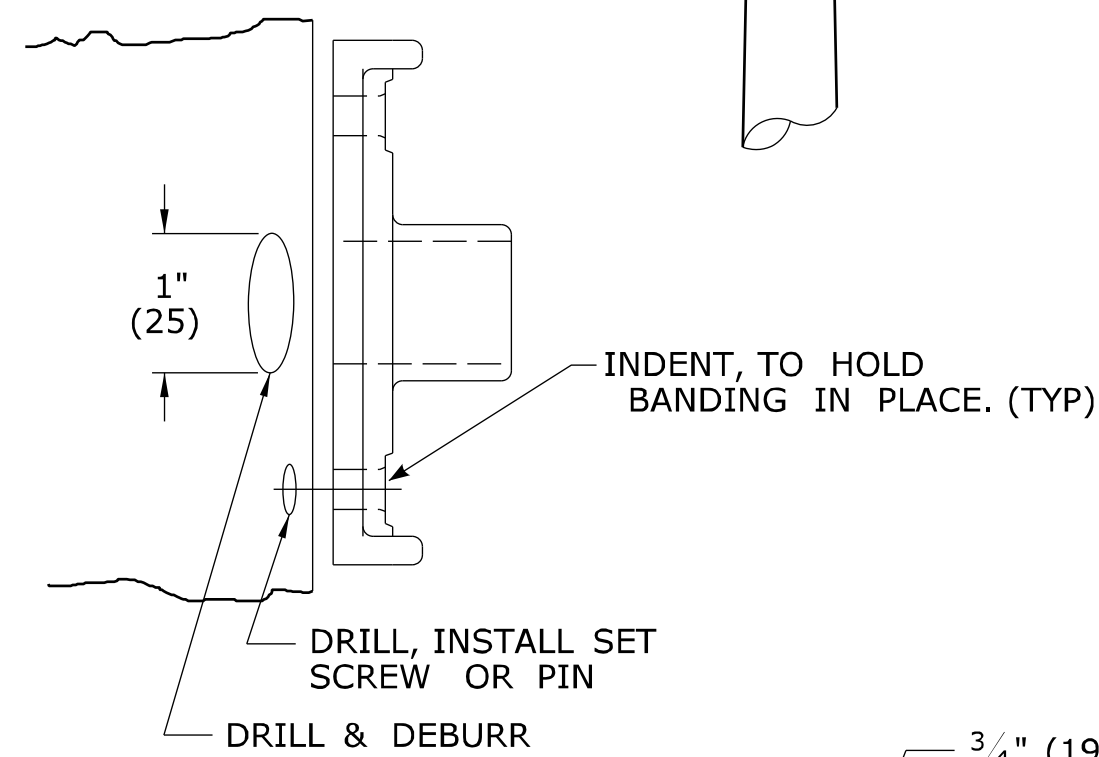
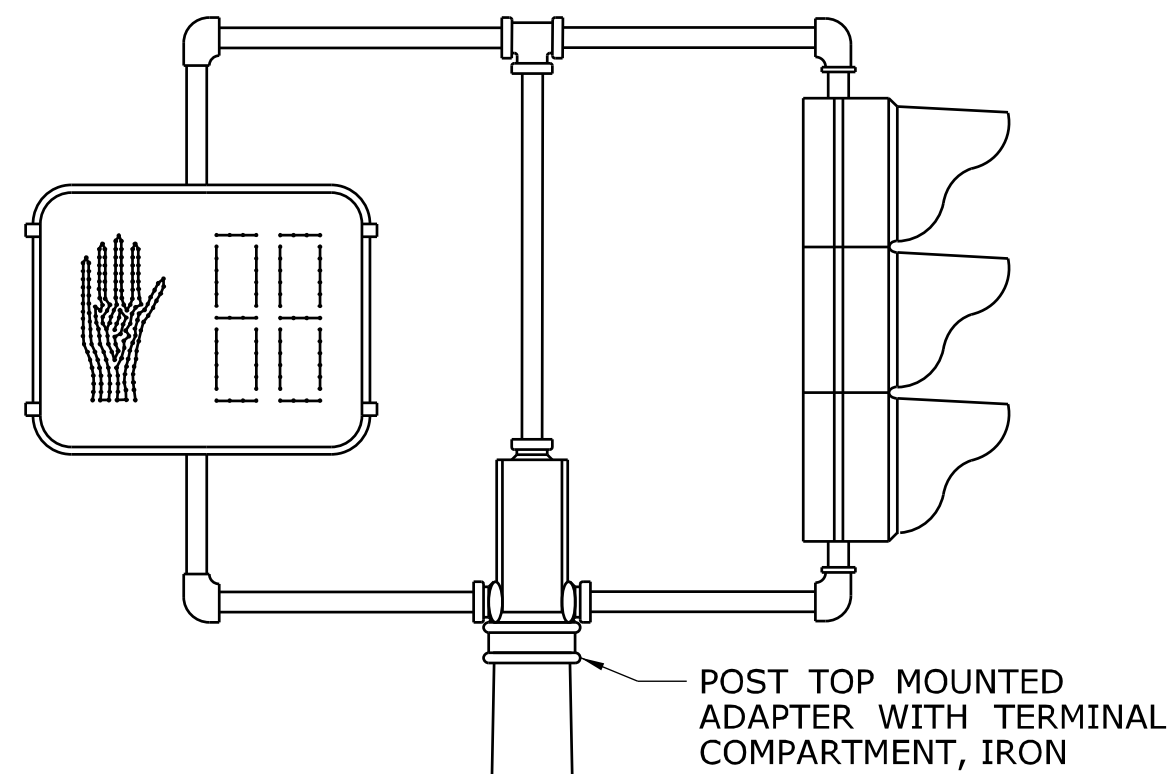
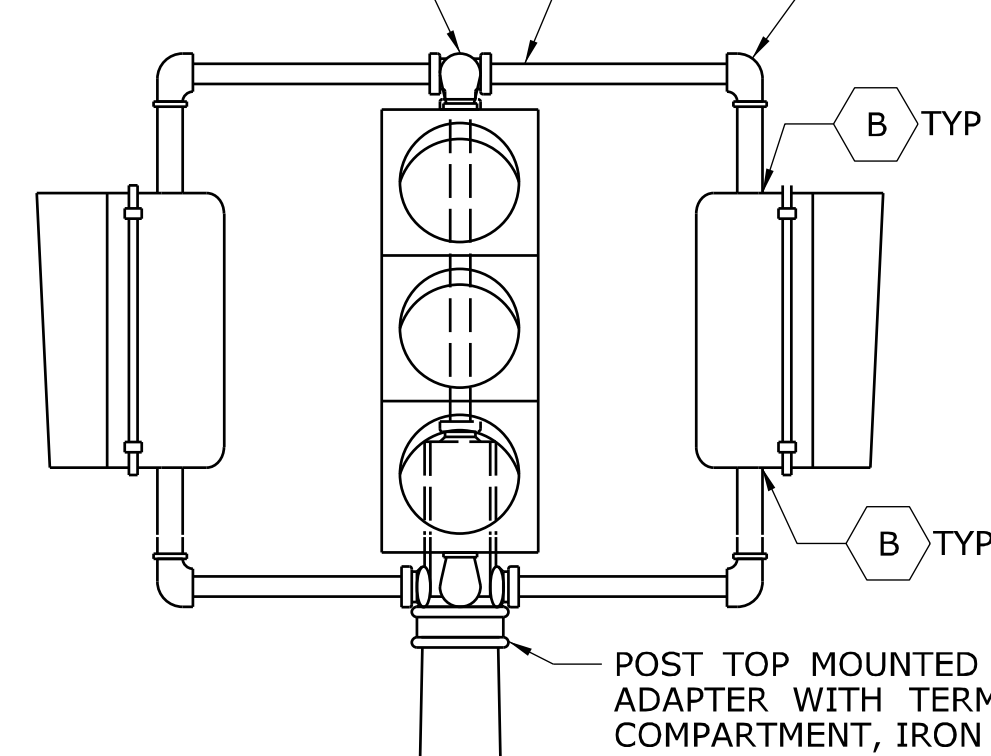
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 Charles S. Harlow, P.E. 2014.04.29 14:26:25-04'00'

CTDOT
 STANDARD SHEET
 OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
CONCRETE HANDHOLE

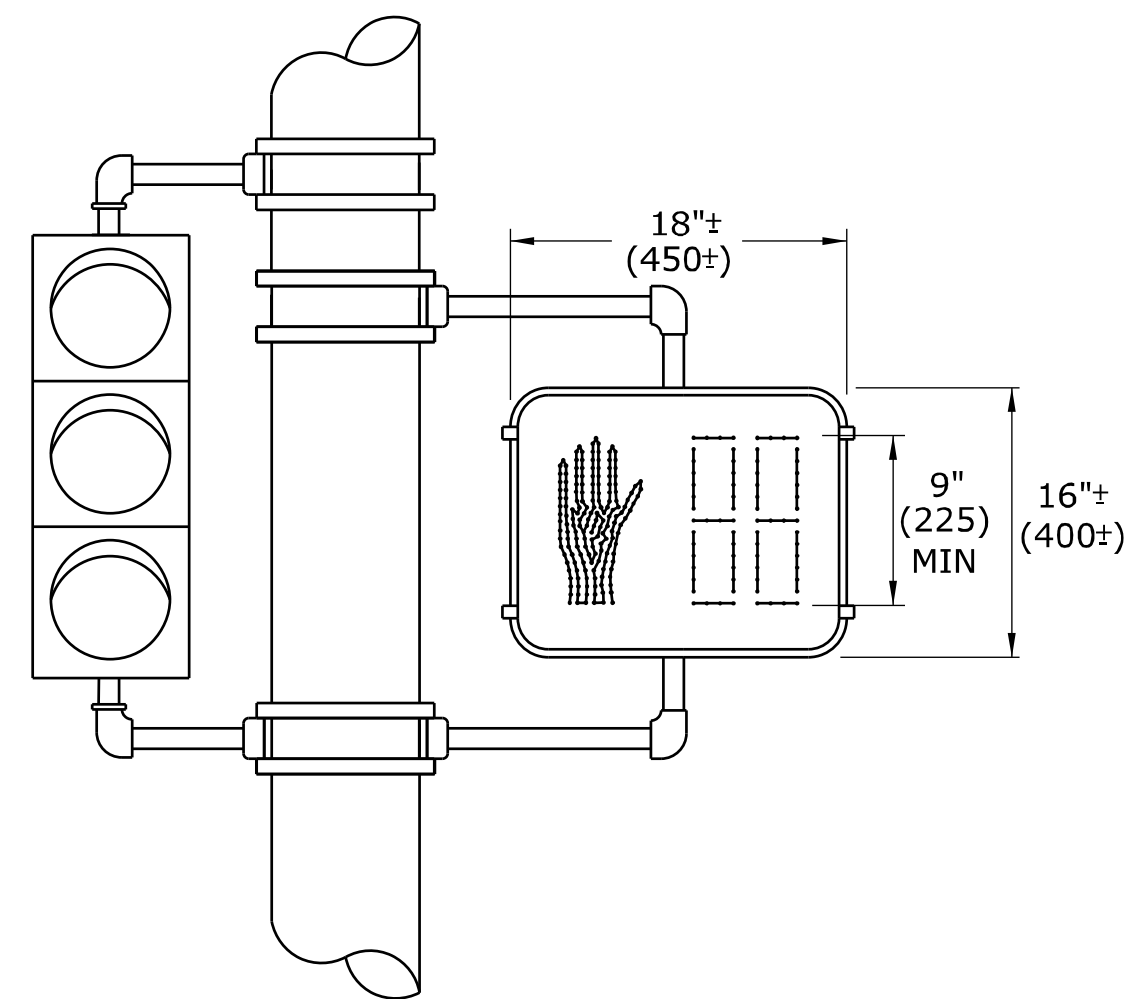
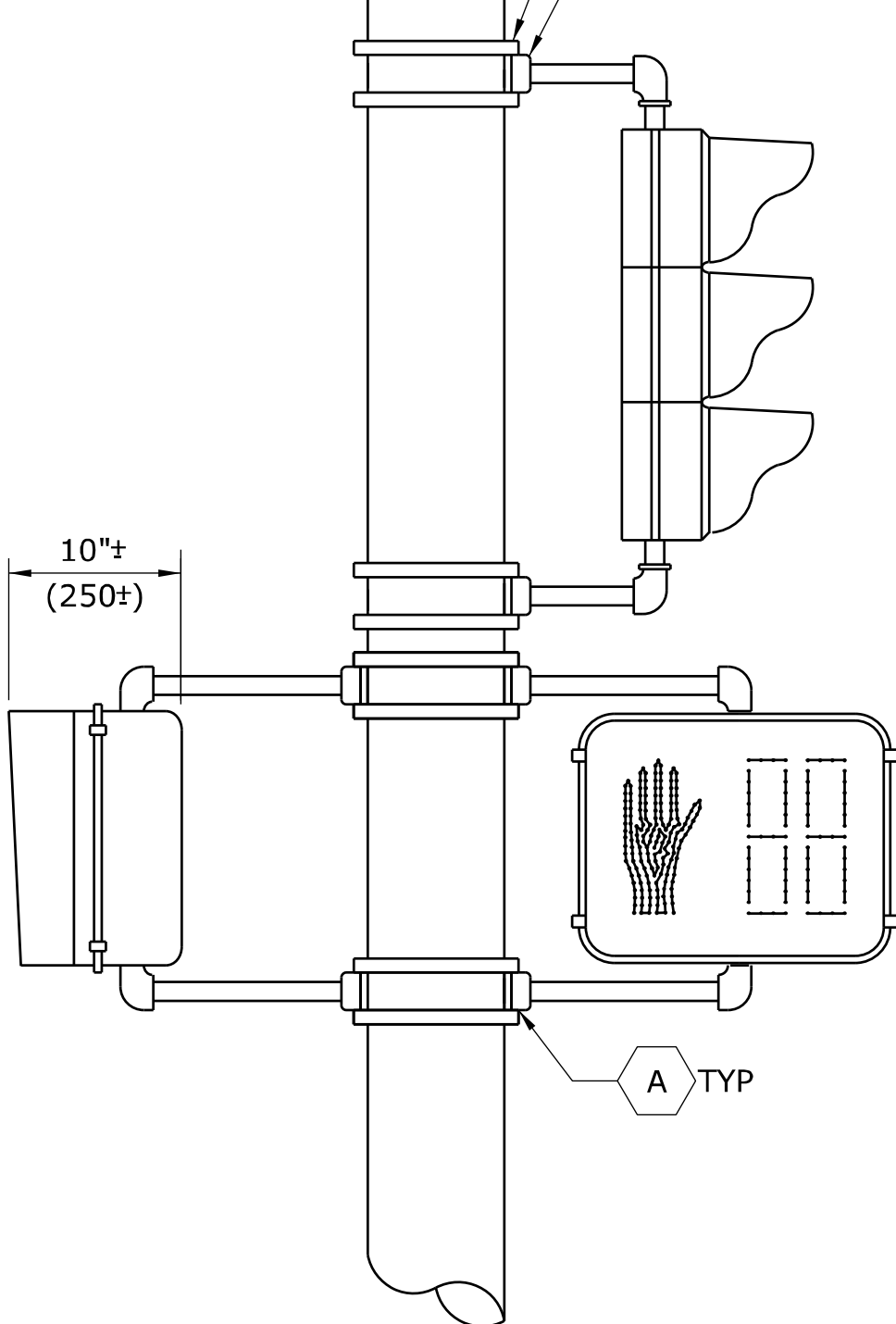
STANDARD SHEET NO.:
TR-1010_01

1 1/2" (38) SS SIDE
OUTLET TEE, IRON, TYP



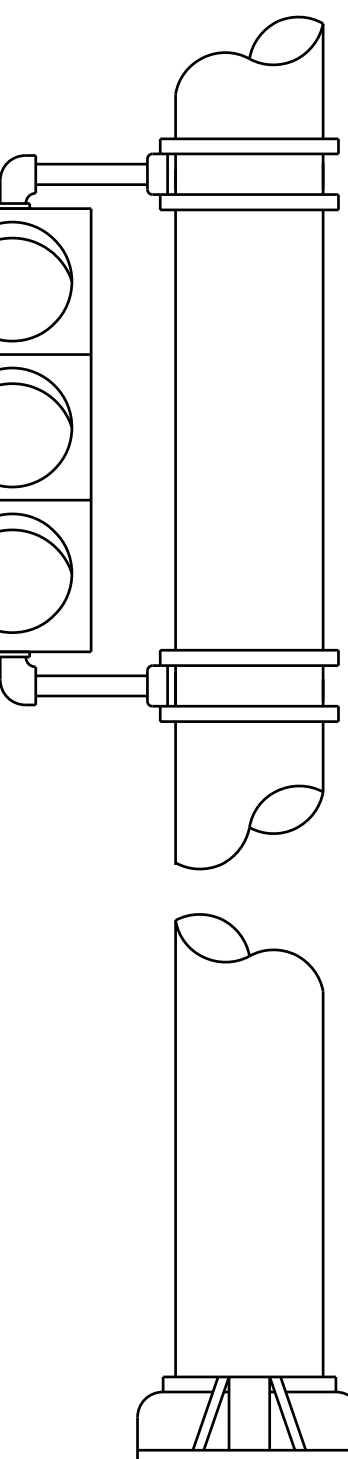
3/4" (19) STAINLESS
STEEL BANDING AND BUCKLE, TYP

1 1/2" (38) HUB PLATE, IRON
TOP AND BOTTOM, TYP

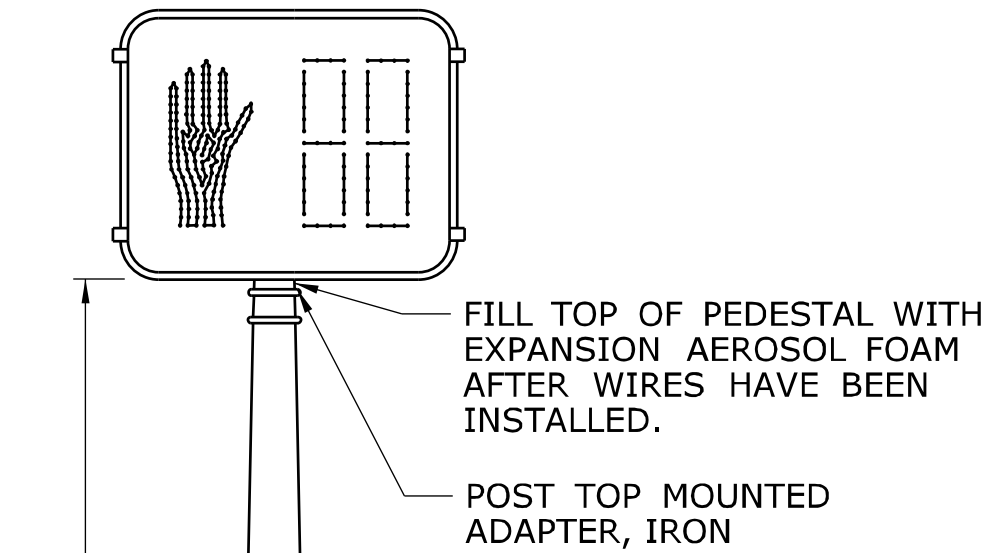


**ONE WAY TRAFFIC SIGNAL
PEDESTAL MOUNTED**

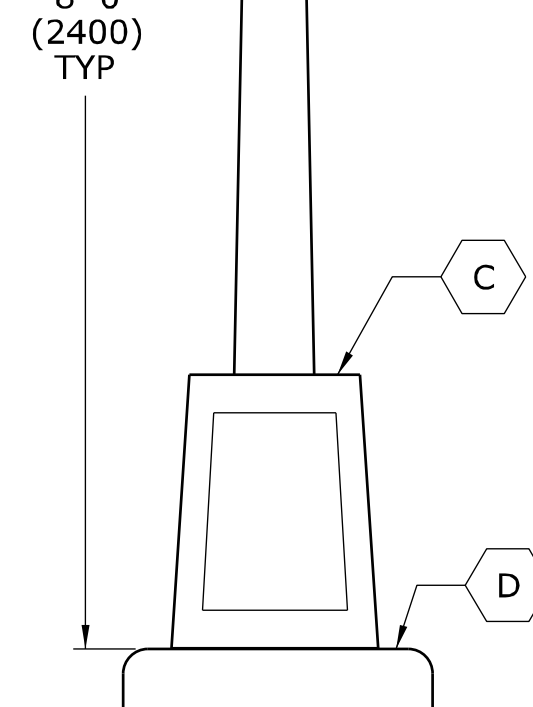
**ONE WAY WALK SIGNAL
PEDESTAL MOUNTED**



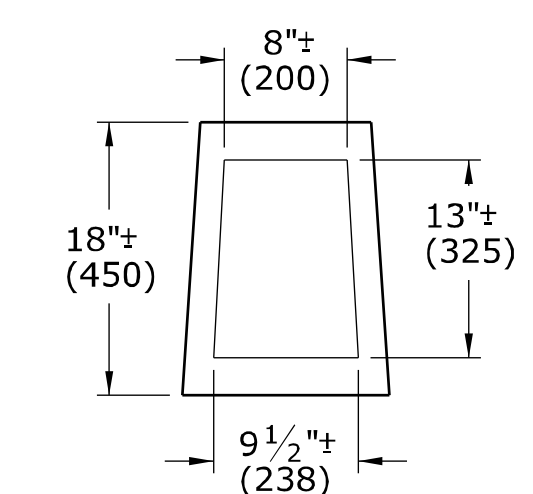
**ONE WAY TRAFFIC SIGNAL
POLE MOUNTED**



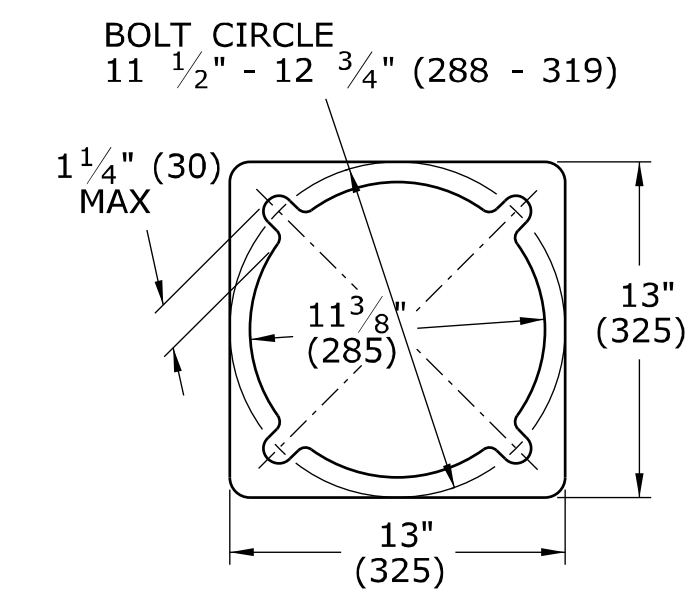
NOTE:
PEDESTAL MOUNTED ONE WAY VEHICLE
SIGNAL SHALL BE MOUNTED SAME AS
ONE WAY WALK SIGNAL.



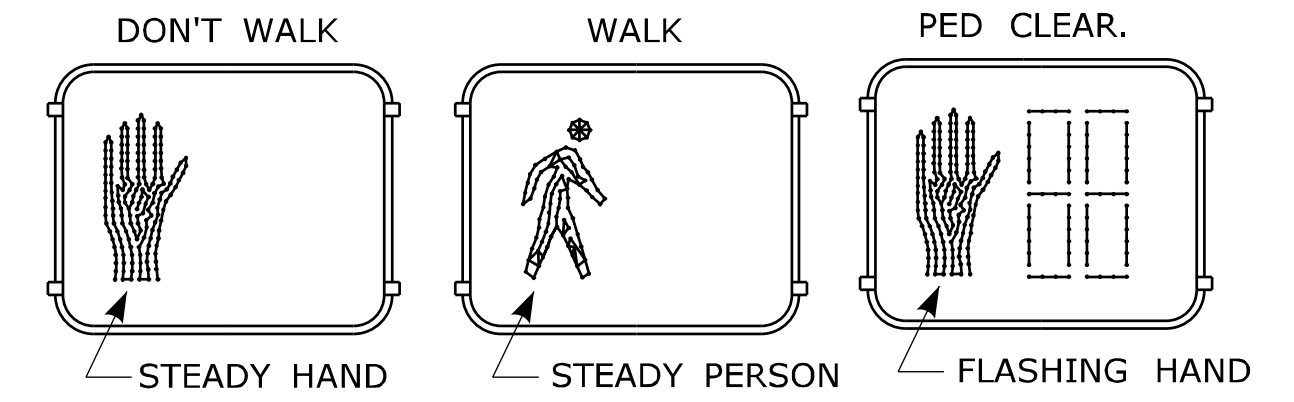
**ONE WAY WALK SIGNAL
PEDESTAL MOUNTED**



**ALUMINUM PEDESTAL
DOOR OPENING DETAIL**

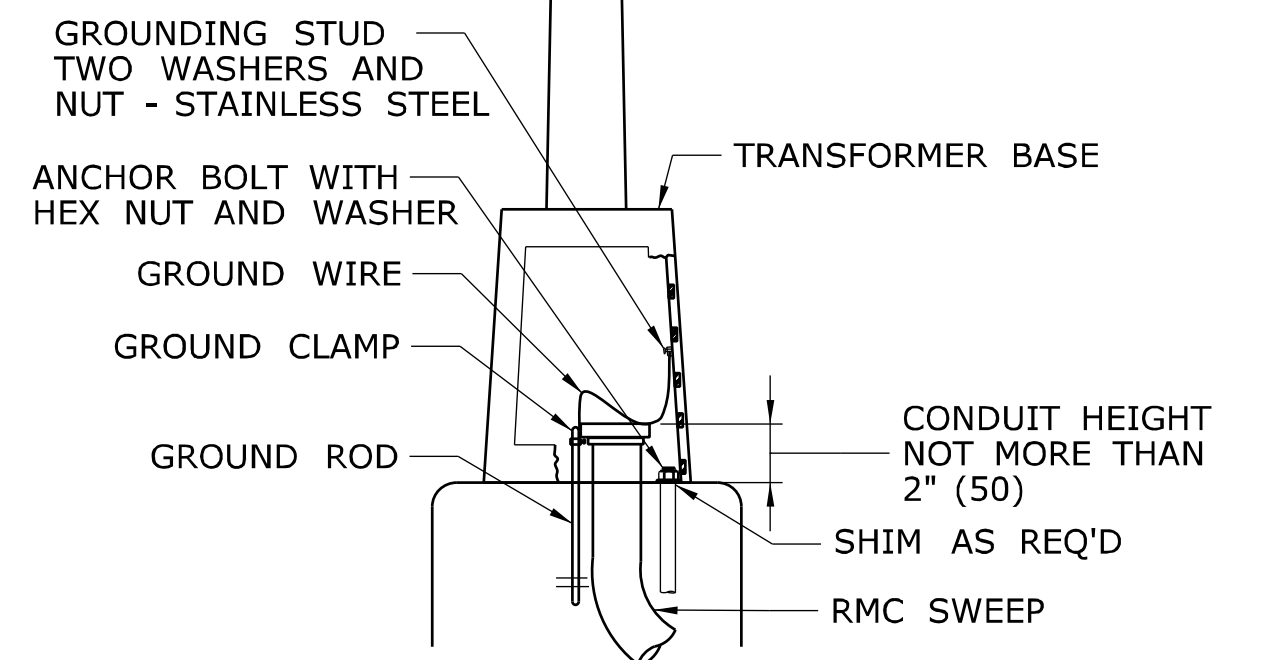
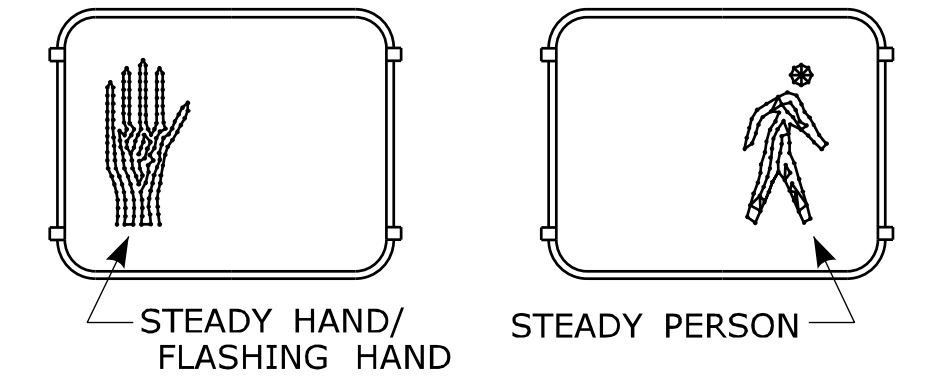


PEDESTAL BASE PLAN

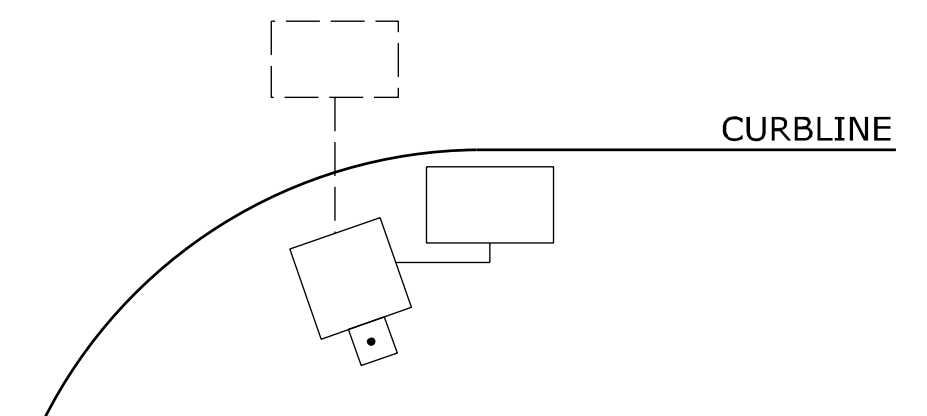


TYPICAL INDICATION WHEN LIT

NON-COUNTDOWN DISPLAY, ONLY WHEN SHOWN ON PLAN.
DON'T WALK/PED CLEAR. WALK



**ALUMINUM PEDESTAL
INSTALLATION DETAIL**



WHEN PEDESTALS OR SPAN POLES ARE INSTALLED CLOSE TO THE CURB,
SIDE MOUNT PEDESTRIAN OR TRAFFIC SIGNALS TO AVOID VISOR DAMAGE
FROM TURNING VEHICLES.

NOTES:

- A SECURE LOWER HUB PLATE WITH STAINLESS STEEL SET SCREW OR PIN PRIOR TO BANDING TO PREVENT MOVEMENT. INSTALL CABLE THROUGH BOTTOM OF HUB PLATE.
- B REFER TO CTDOT TRAFFIC STANDARD SHEET, TR-1105_01, TRAFFIC SIGNALS & CABLE ASSIGNMENTS.
- C IF THREADED, MIN 1" (25) THREADED INTO BASE, SECURED WITH STAINLESS STEEL SET SCREWS.
- D BASE DESIGNED AS BREAK-AWAY.

INCANDESCENT WALK SIGNAL LAMPS ARE 67 WATTS, RATED AT 8000 HOURS LAMP LIFE.
LED WALK SIGNAL LAMPS ARE MAXIMUM 15 WATTS, WARRANTED AT 5 YEAR LIFE.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:	PEDESTRIAN SIGNAL
STEEL SPAN POLE, MAST ARM ASSEMBLY SHAFT	PEDESTAL MOUNTED, TRAFFIC & PEDESTRIAN SIGNALS
ALUMINUM PEDESTAL	POLE MOUNTED, TRAFFIC & PEDESTRIAN SIGNALS
TRAFFIC SIGNAL	

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DIMENSIONS ARE IN ENGLISH (") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: - OVER 1" TO NEAREST 5 mm - UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

Plotted Date: 4/14/2012



Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1102_01

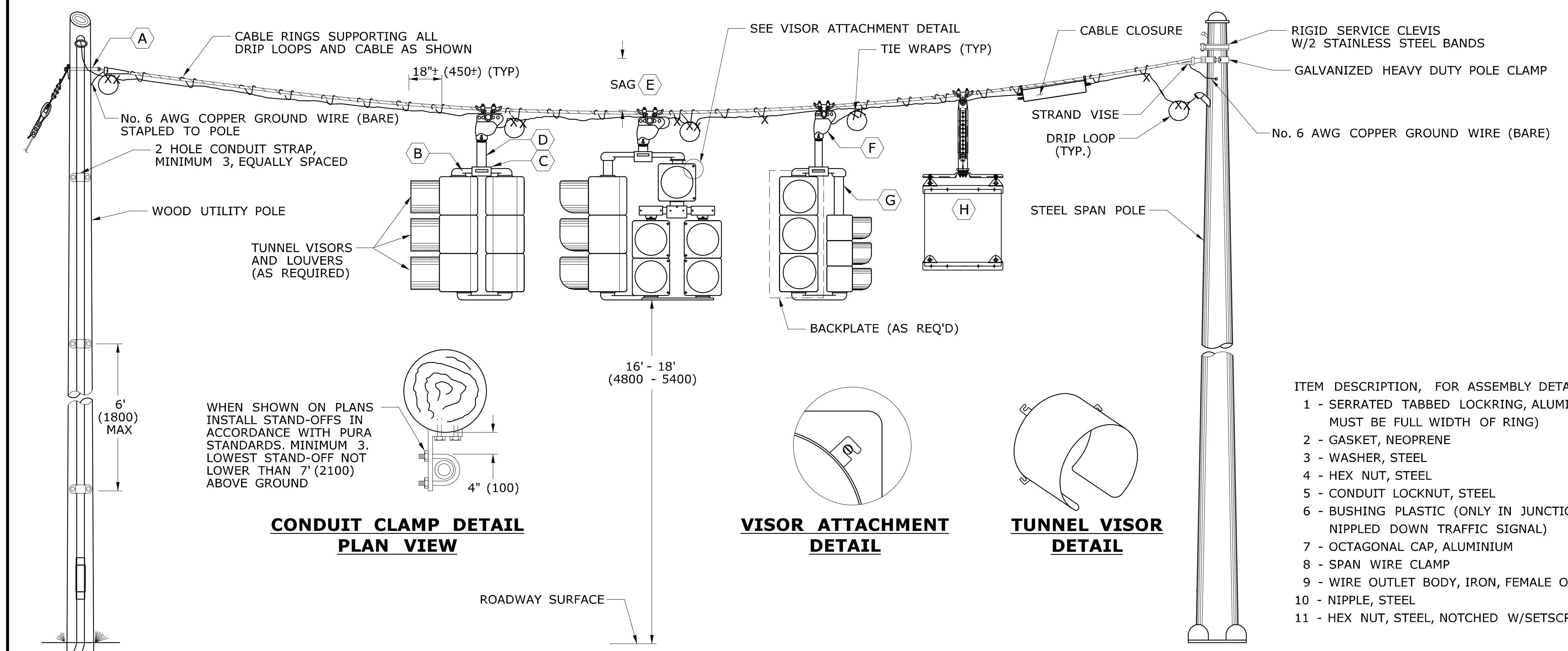
SUBMITTED BY:	NAME/DATE/TIME:
Tracy L. Fogarty	Tracy L. Fogarty 2012.05.01 12:55:27-04'00'
APPROVED BY:	NAME/DATE/TIME:
Timothy M. Wilson	Timothy M. Wilson 2012.05.09 10:24:58-04'00'

**CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING**

STANDARD SHEET TITLE:
PEDESTALS, PEDESTRIAN SIGNALS

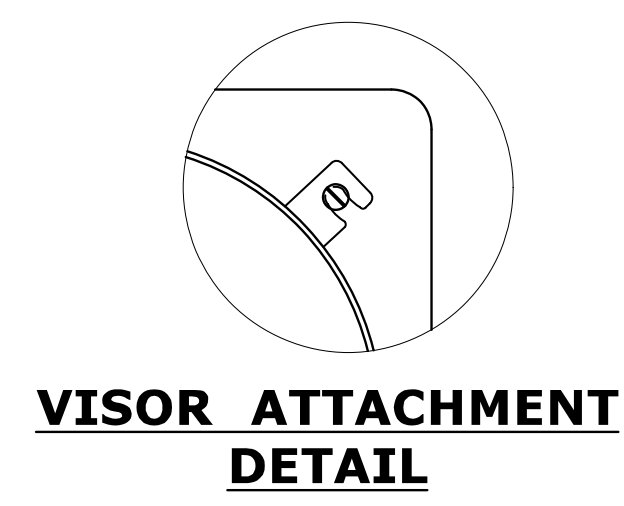
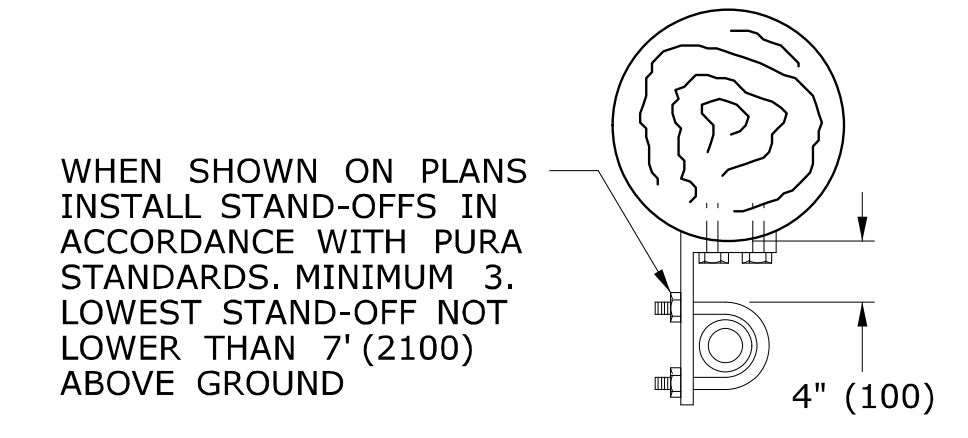
STANDARD SHEET NO.:
TR-1102_01

REV.	DATE	REVISION DESCRIPTION
2	4-2012	MINOR REVISIONS.
1	1-2010	INCLUDED COUNTDOWN PEDESTRIAN SIGNALS.



TRAFFIC SIGNAL CABLE COLOR ASSIGNMENTS

SIGNAL ASSEMBLY & CABLE USED	SIGNAL FUNCTION	ARTERY 1	ARTERY 2	SIDE STREET 1	SIDE STREET 2
2 - WAY 9 CONDUCTOR	RED	RED		BLACK	
	YELLOW	ORANGE		WHITE \ BLACK	
	GREEN	GREEN		BLUE	
	SPARE	GREEN\BLACK		RED \ BLACK	
	NEUTRAL	WHITE			
3 - WAY 12 CONDUCTOR	RED	RED	RED \ BLACK	BLACK	
	YELLOW	ORANGE	ORANGE \ BLACK	WHITE \ BLACK	
	GREEN	GREEN	GREEN \ BLACK	BLUE	
	SPARE	BLUE\BLACK	BLACK \ WHITE		
	NEUTRAL	WHITE			
4 - WAY 15 CONDUCTOR	RED	RED	RED \ BLACK	BLACK	RED \ WHITE
	YELLOW	ORANGE	ORANGE \ BLACK	WHITE \ BLACK	BLACK \ WHITE
	GREEN	GREEN	GREEN \ BLACK	BLUE	GREEN \ WHITE
	SPARE	BLUE\BLACK		BLUE \ WHITE	
	NEUTRAL	WHITE			



- ITEM DESCRIPTION, FOR ASSEMBLY DETAILS
- 1 - SERRATED TABBED LOCKRING, ALUMINUM (TAB MUST BE FULL WIDTH OF RING)
 - 2 - GASKET, NEOPRENE
 - 3 - WASHER, STEEL
 - 4 - HEX NUT, STEEL
 - 5 - CONDUIT LOCKNUT, STEEL
 - 6 - BUSHING PLASTIC (ONLY IN JUNCTION BOX OR NIPPLED DOWN TRAFFIC SIGNAL)
 - 7 - OCTAGONAL CAP, ALUMINIUM
 - 8 - SPAN WIRE CLAMP
 - 9 - WIRE OUTLET BODY, IRON, FEMALE ONLY
 - 10 - NIPPLE, STEEL
 - 11 - HEX NUT, STEEL, NOTCHED W/SETSCREWS

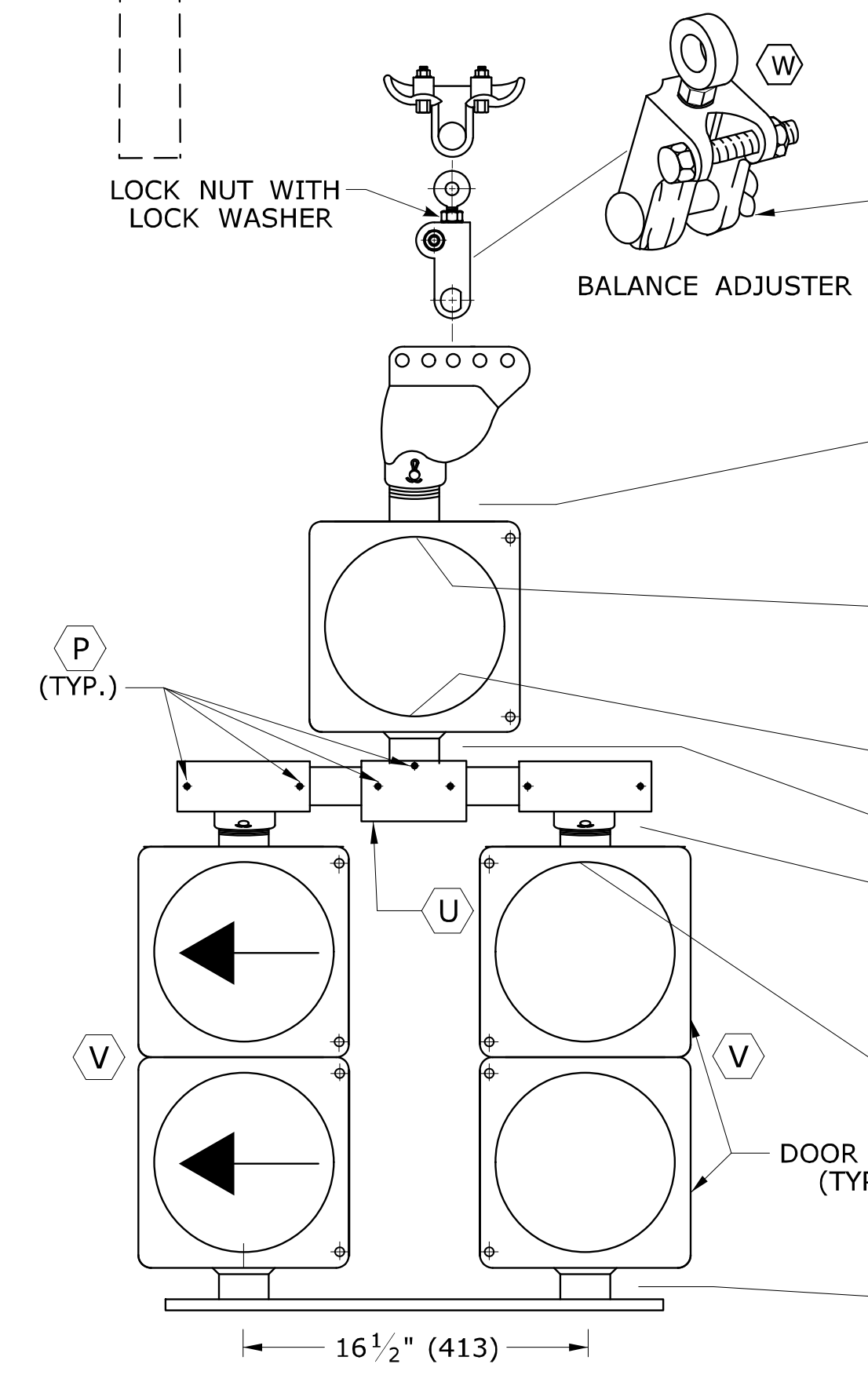
PEDESTRIAN SIGNAL CABLE COLOR ASSIGNMENTS

SIGNAL ASSEMBLY & CABLE USED	SIGNAL FUNCTION	WIRE COLOR
WALK SIGNAL W/ PUSHBUTTON 7 CONDUCTOR	DON'T WALK	RED
	WALK	GREEN
	NEUTRAL FOR WALK SIGNAL	WHITE
	PEDESTRIAN PUSHBUTTON	BLACK
	NEUTRAL FOR PUSHBUTTON	ORANGE
WALK SIGNAL W/ PUSHBUTTON 7 CONDUCTOR	SPARE CONDUCTOR	WHITE \ BLACK
	SPARE CONDUCTOR *	BLUE \ BLACK
	RED	RED
	YELLOW	ORANGE
	GREEN	GREEN
7 CONDUCTOR	NEUTRAL FOR TRAFFIC SIGNAL	WHITE
	PEDESTRIAN PUSHBUTTON	BLACK
	NEUTRAL FOR PUSHBUTTON	WHITE \ BLACK
	SPARE CONDUCTOR *	BLUE \ BLACK

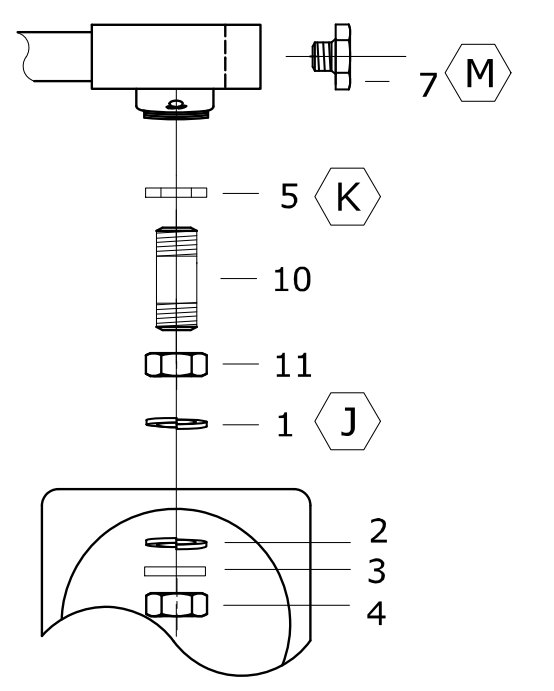
* IF 14/7 FEEDS MORE THAN ONE BUTTON, SPLIT THE BUTTONS AND USE BLUE WITH BLACK TRACER FOR THE ADDITIONAL BUTTON.

TRAFFIC SIGNALS SPAN WIRE SUSPENDED

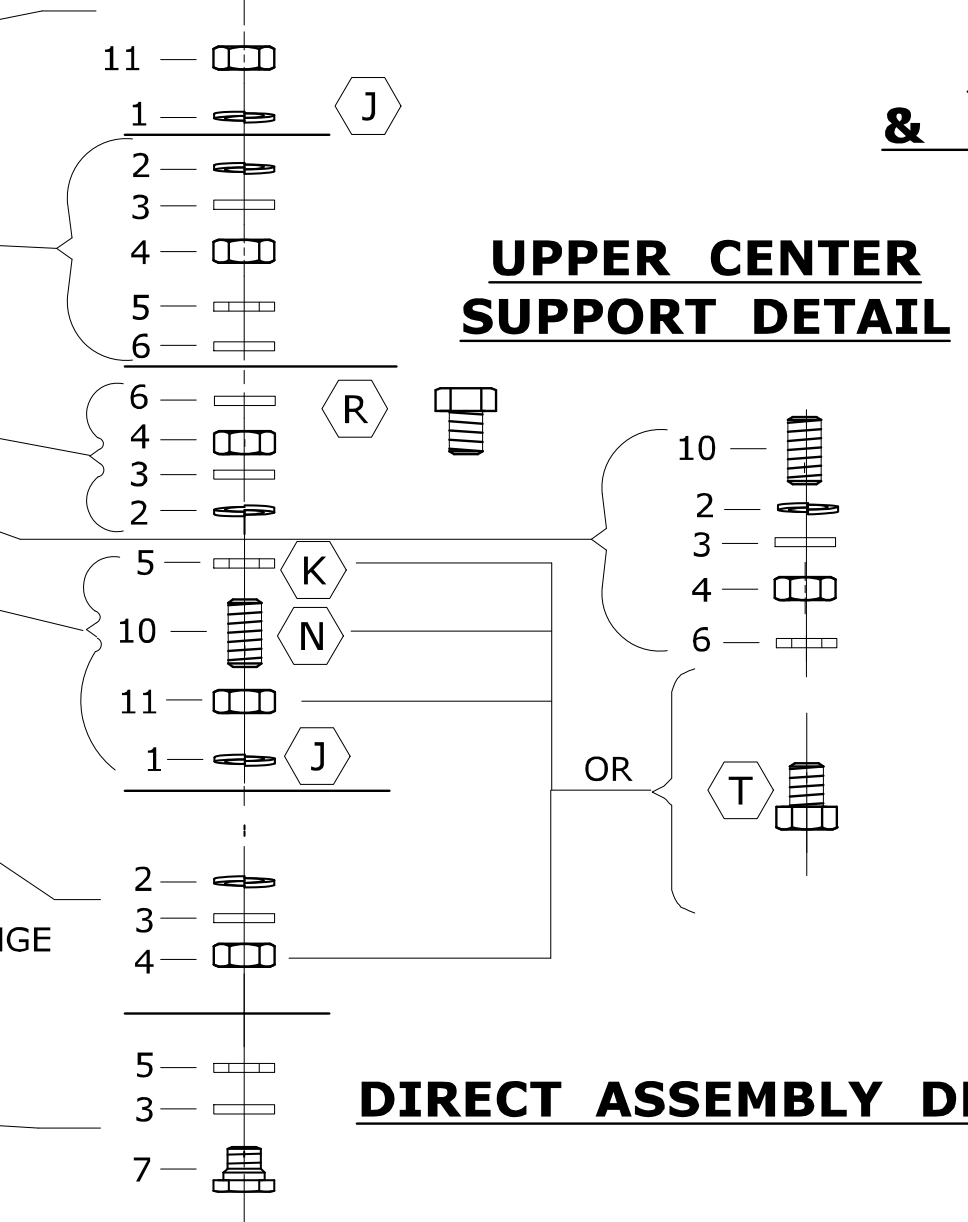
SPAN WIRE HANGER ASSEMBLY DETAIL



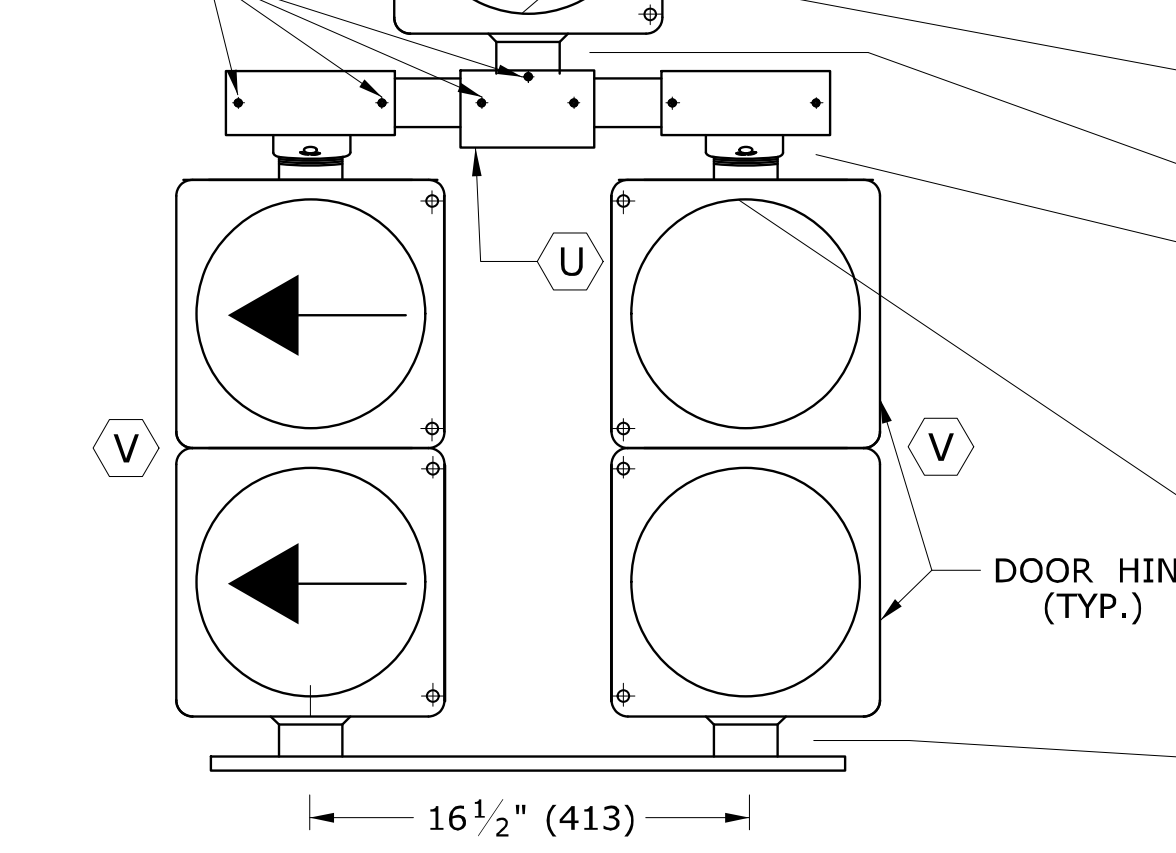
TWO WAY, THREE WAY & FOUR WAY NIPPLE DOWN ASSEMBLY DETAIL



UPPER CENTER SUPPORT DETAIL



DIRECT ASSEMBLY DETAIL



- NOTES: FOR ASSEMBLY DETAILS
- J APPLY SILICONE CAULK BETWEEN OR AROUND SERRATED LOCKRING AND HOUSING.
 - K OPTIONAL USE IF NIPPLE THREADS TOO FAR INTO ELBOW.
 - L DRILL HOLE IN CENTER OF 2 WAY BOTTOM BRACKET - INSTALL 3 BOLT BRACKET (SEE DETAIL).
 - M DO NOT INSERT ORNAMENTAL CAP PAST DOTTED LINE.
 - N ALL THREAD.
 - P SETSCREW (SQUARE OR ALLEN) ON ALL FITTINGS.
 - R CHASE NIPPLE CAN BE SUBSTITUTED FOR THE COMBINATION OF ITEMS 4, 5, 10 AND 11.
 - S INSTALL STAINLESS STEEL WASHER ON INSIDE OF COTTER PIN. COTTER PIN AND WASHER SHALL BE ON SIDE OF HANGER AWAY FROM SIGNAL CABLES.
 - T CHASE NIPPLE CAN BE SUBSTITUTED FOR COMBINATION 4, 5, 10 AND 11.
 - U CENTER HUB SAME AS C EXCEPT TOP OPENING MAY BE THREADED.
 - V DOOR HINGE ON OUTSIDE OF SIDE BY SIDE ASSEMBLY.
 - W USE BALANCE ADJUSTER TO PLUMB SIGNAL ASSEMBLIES AS REQUIRED.

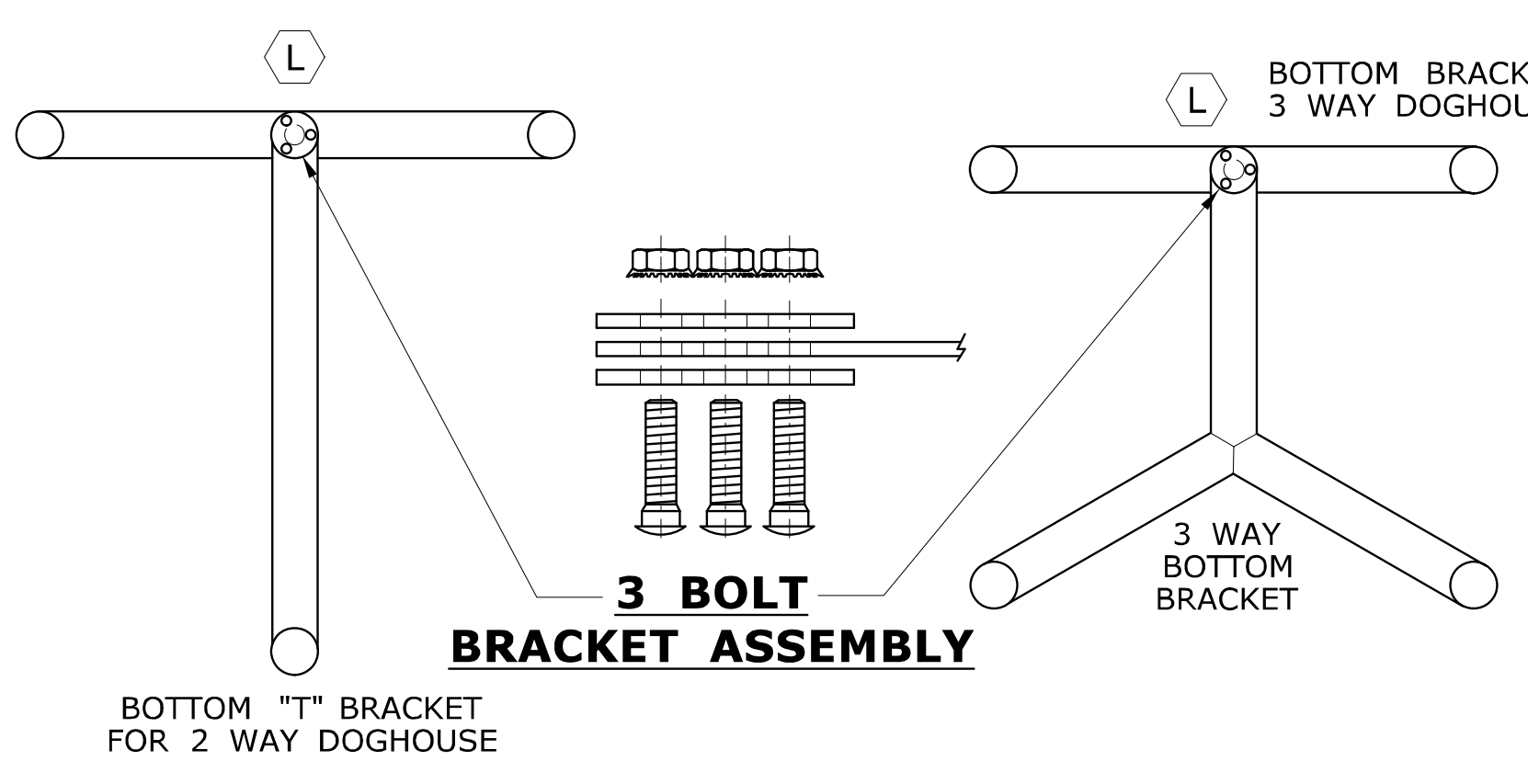


TABLE NOTES:

1. INSTALL SEPARATE CABLE BETWEEN CLOSURE AND EACH TRAFFIC SIGNAL ASSEMBLY. WIRE EACH TRAFFIC SIGNAL SECTION SEPARATELY BACK TO CABLE CLOSURE. JUMPERS BETWEEN TERMINALS ARE NOT ALLOWED EXCEPT ON NEUTRAL CONDUCTORS.
2. WIRE ALL SIGNALS, SAME DIRECTION FROM CONTROLLER, SEPARATELY WITH CONDUCTORS IN 21 CONDUCTOR CABLE, EVEN IF INDICATIONS ARE IDENTICAL.
3. CABLES THAT FEED PEDESTRIAN INDICATIONS, PUSH BUTTONS, AND DETECTORS BYPASS CABLE CLOSURE.
4. REFER TO STANDARD SHEET TR-1113.01 FOR CABLE CLOSURE - TYPE A.

NOTES:

- SERVICE CONDUCTORS: THW, THWN OR XHHW. INDIVIDUAL WIRES MAY BE USED IN LIEU OF MULTI-CONDUCTOR CABLE.
- ALL WORK ON UTILITY POLES MUST COMPLY WITH CURRENT PURA REGULATIONS AND NESC RULES.
- A ATTACH SPAN AT LEAST 12" (300) BELOW LOWEST POWER COMPANY ATTACHMENT, AND AT LEAST 40" (1000) ABOVE HIGHEST COMMUNICATIONS ATTACHMENT, UNLESS OTHERWISE DIRECTED ON PLANS.
 - B ELBOW OR "T" FITTING MUST HAVE NOTCH FOR SERRATED TABBED LOCKRING.
 - C TOP BRACKET CENTER HUB SHALL BE MIN 4" (100) ROUND AND 3" (75) DEEP OR EQUAL VOLUME. SERRATION CAST IN HUB OR TABBED OR SERRATED LOCKRING, TOP OPENING NOT THREADED.
 - D NIPPLE LENGTH DEPENDS ON SPAN HEIGHT.
 - E SAG OF SPAN TO BE 5%± LENGTH, UNLESS OTHERWISE ALLOWED BY ENGINEER.
 - F FACE ALL ENTRANCE FITTINGS TOWARD CABLE CLOSURE UNLESS SIGNAL ASSEMBLY IS UNBALANCED AND A BALANCE ADJUSTER IS USED.
 - G INSTALL EXTENSION NIPPLE ON TOP OF SIGNAL HOUSING SO BOTTOM OF ALL SIGNALS ARE EVEN.
 - H REFER TO TYPICAL "SIGN FACE SHEET ALUMINUM, R-SERIES SIGNS", AND TO TR-1208.03 FOR SIGN HANGER ASSEMBLY. MAXIMUM SIGN SIZE 24" X 24" (600 X 600). ALL STAINLESS STEEL HARDWARE. SECURE LOUVERS TO TUNNEL VISORS WITH 3 STAINLESS STEEL SCREWS.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:

○	PROPOSED WOOD SPAN POLE	○	PROPOSED UTILITY POLE	—	CABLE CLOSURE
●	EXISTING WOOD SPAN POLE	●	EXISTING UTILITY POLE	—	SPAN MOUNTED SIGN
○	PROPOSED STEEL SPAN POLE	○	POLE ANCHOR & GUY	—	SPAN MOUNTED TRAFFIC SIGNAL
●	EXISTING STEEL SPAN POLE				

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Plotted Date: 3/19/2015

DIMENSIONS ARE IN ENGLISH (") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: - OVER 1" TO NEAREST 5 mm. - UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

**STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION**

File name: CTDOT_TRAFFIC_STD.DGN Model: TR-1105_01

SUBMITTED BY: NAME/DATE/TIME:
Tracy L. Fogarty Tracy L. Fogarty, P.E. 2015.05.05 12:30:30-04'00'

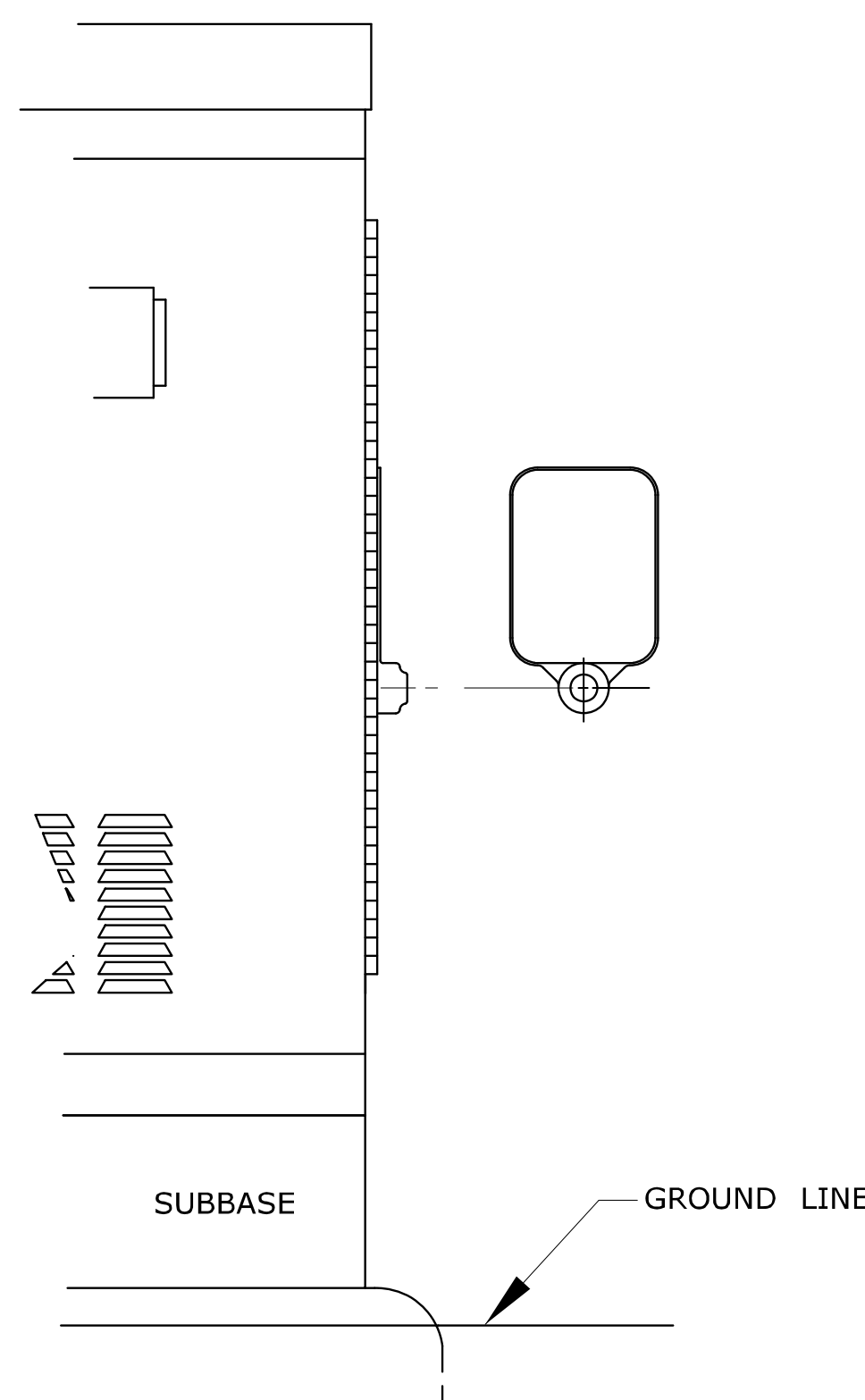
APPROVED BY: NAME/DATE/TIME:
Charles S. Harlow, P.E. 2015.05.12 15:26:44-04'00'

**CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING**

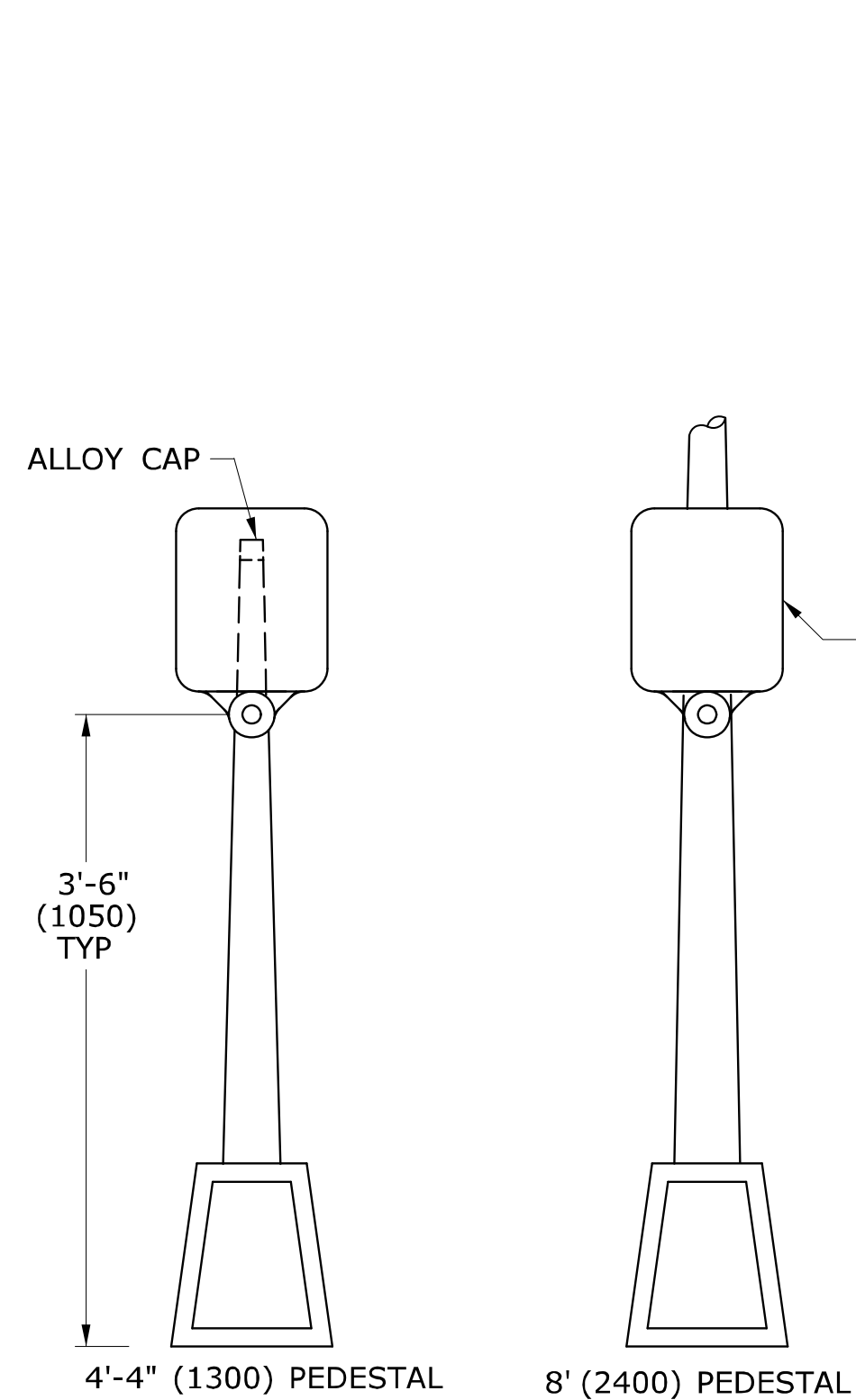
STANDARD SHEET TITLE: **TRAFFIC SIGNALS & CABLE ASSIGNMENTS**

STANDARD SHEET NO.: **TR-1105_01**

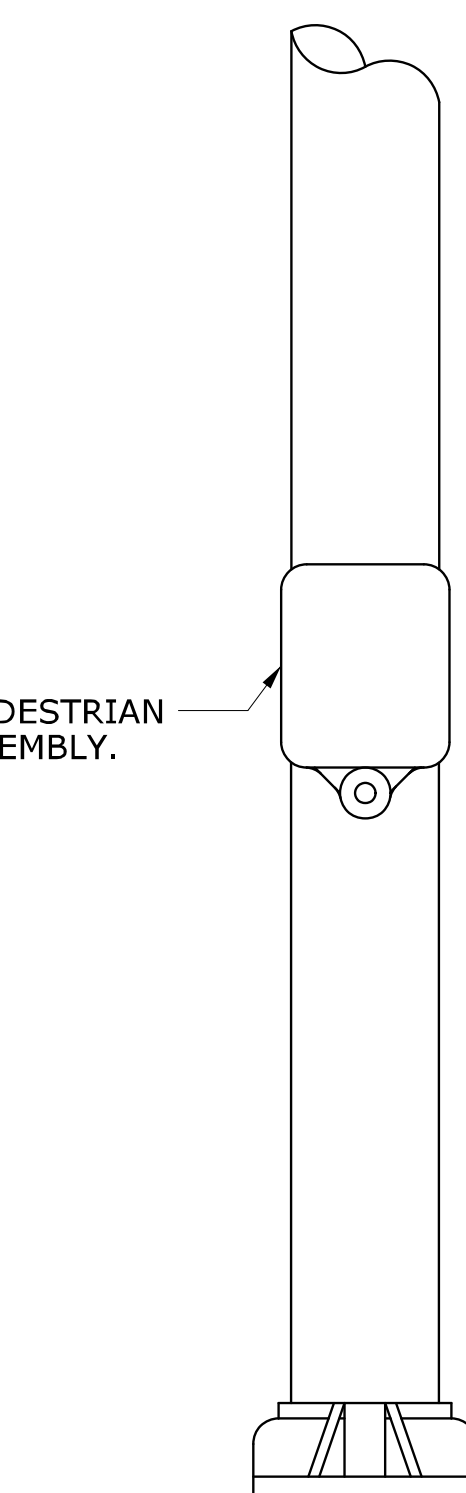
REV.	DATE	REVISION DESCRIPTION
3	3-2015	REMOVED STRAIN INSULATOR.
2	5-2013	MINOR REVISIONS.
1	4-2012	MINOR REVISIONS.



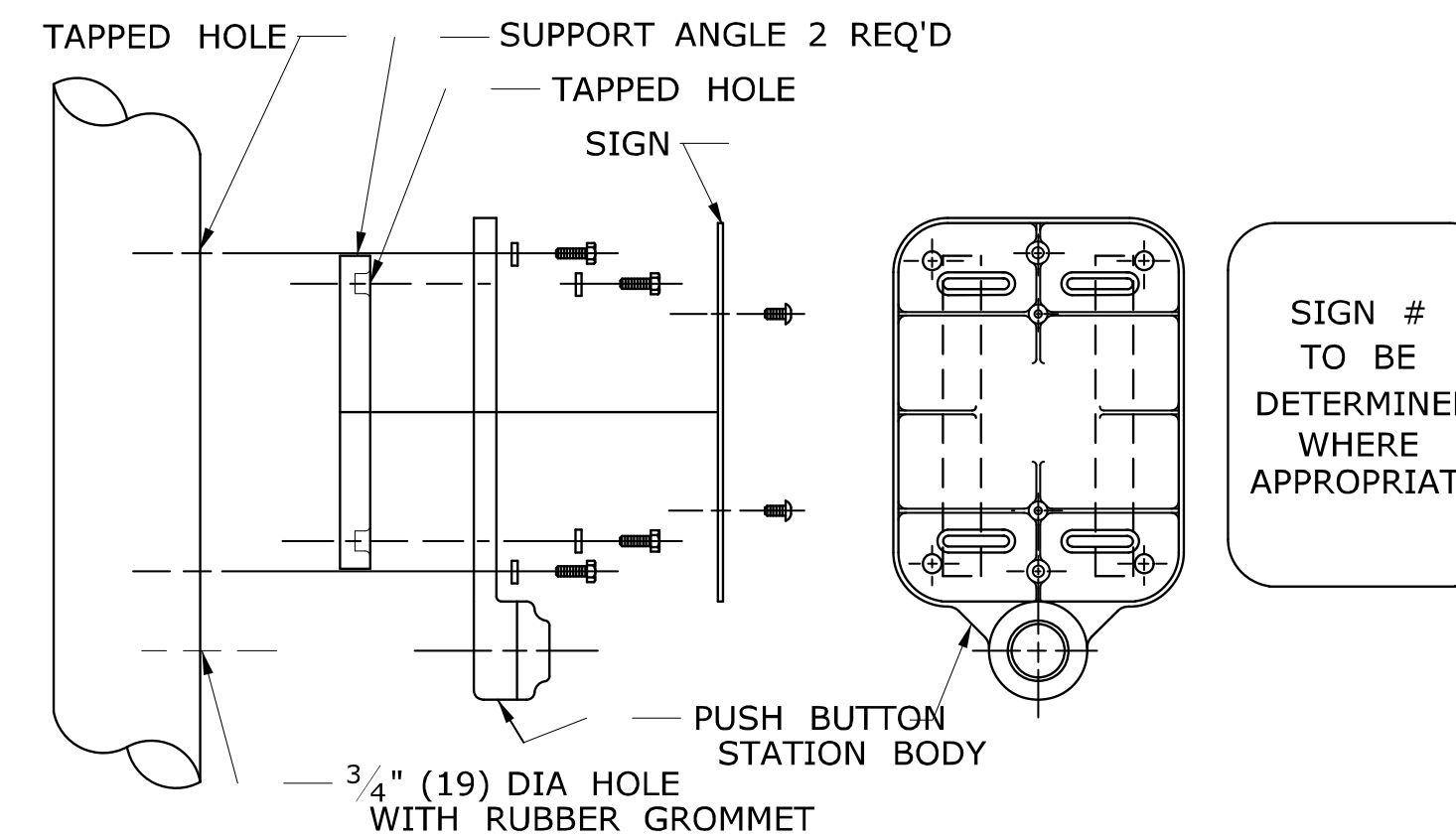
SURFACE MOUNTED



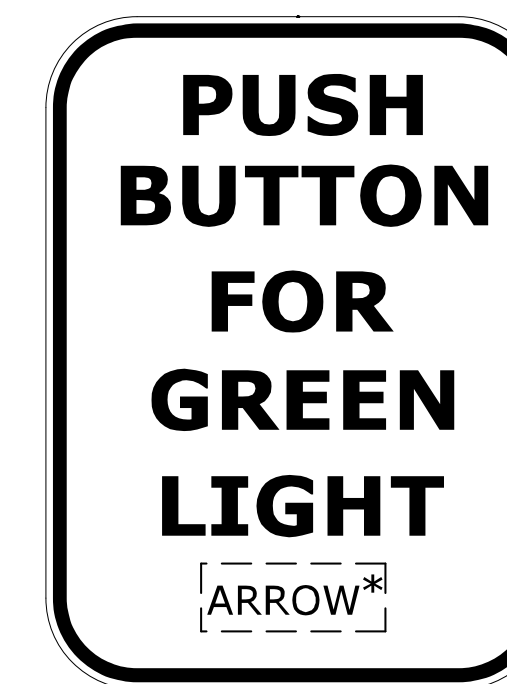
PEDESTAL MOUNTED



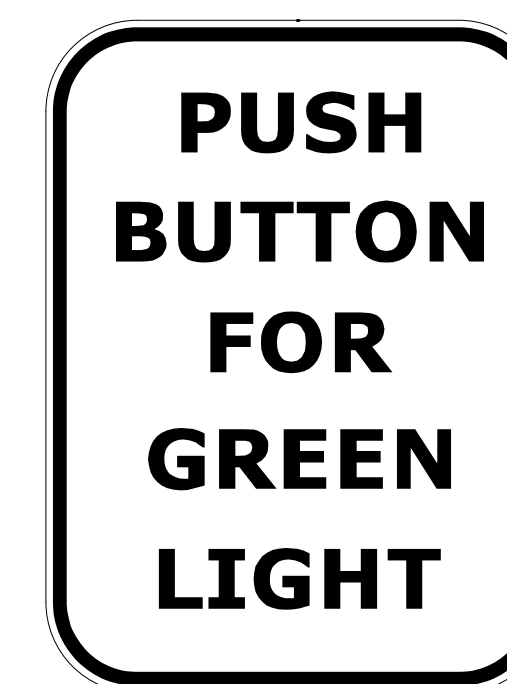
SPAN POLE/MAST ARM MOUNTED



DETAIL A



SIGN # 31-0833
* USE APPROPRIATE ARROW UNLESS OTHERWISE NOTED ON PLAN.

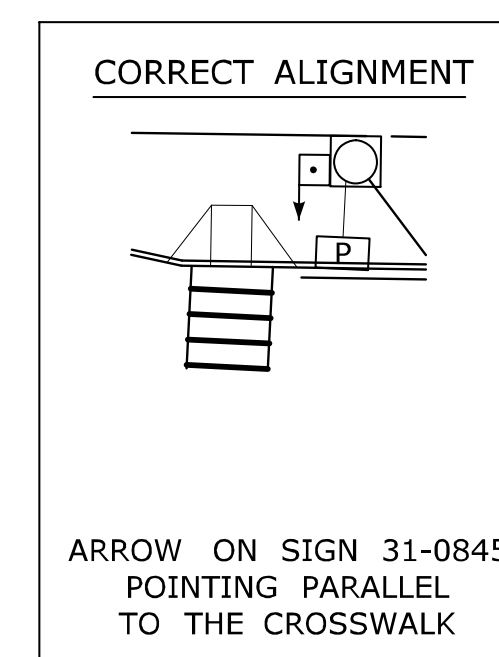


SIGN # 31-0835

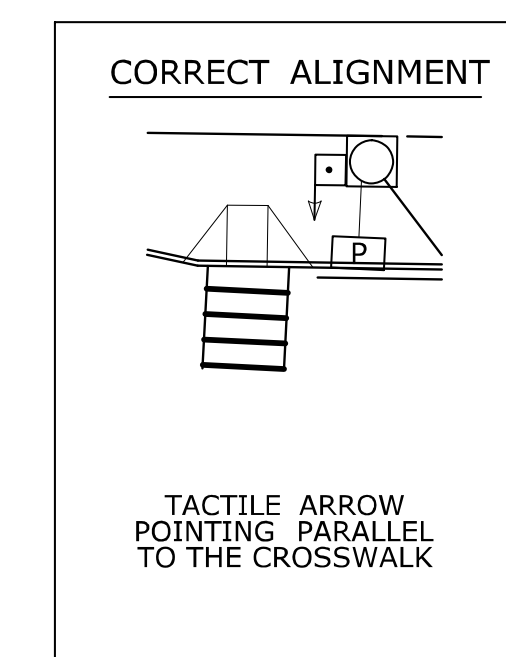
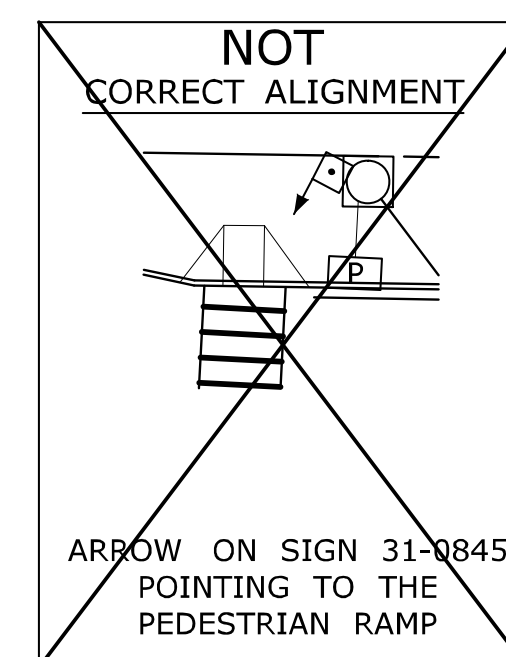
FOR CROSSING WITH SIDE STREET GREEN

GENERAL NOTES:

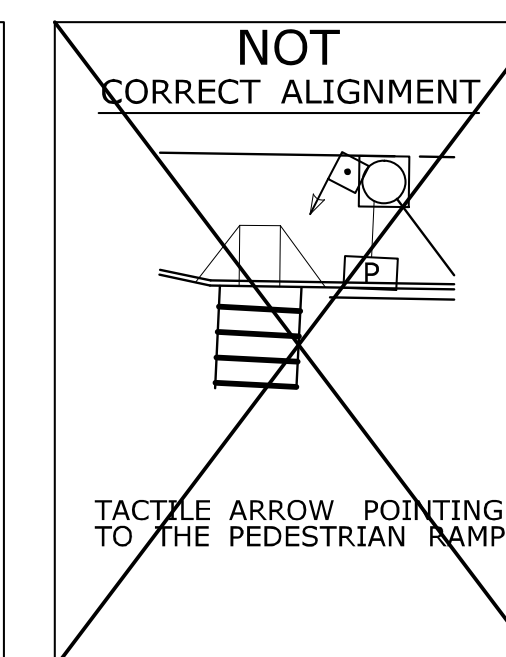
3'-6" (1050) FROM FINISHED GRADE SUCH AS SIDEWALK TO CENTER OF PUSH BUTTON.
 PUSH BUTTON INSTALLATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN, CURRENT EDITION GOVERNS.
 4'-4" (1300) PEDESTAL TO INCLUDE ALLOY CAP SECURED WITH STAINLESS STEEL SET SCREW.



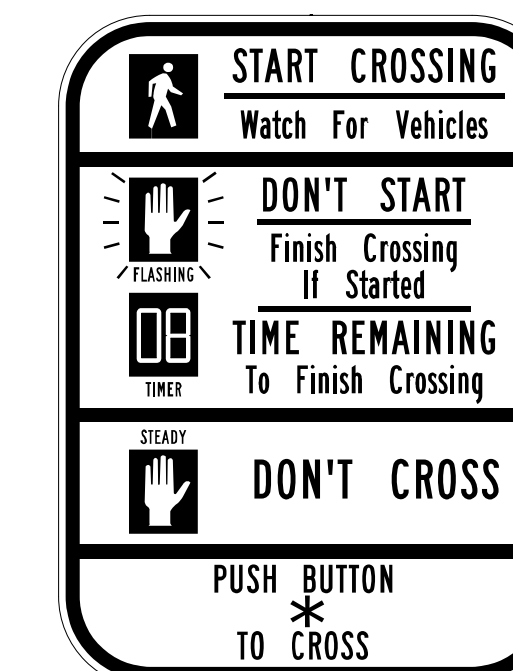
PEDESTRIAN PUSH BUTTON ALIGNMENT



ACCESSIBLE PEDESTRIAN SIGNAL AND DETECTOR



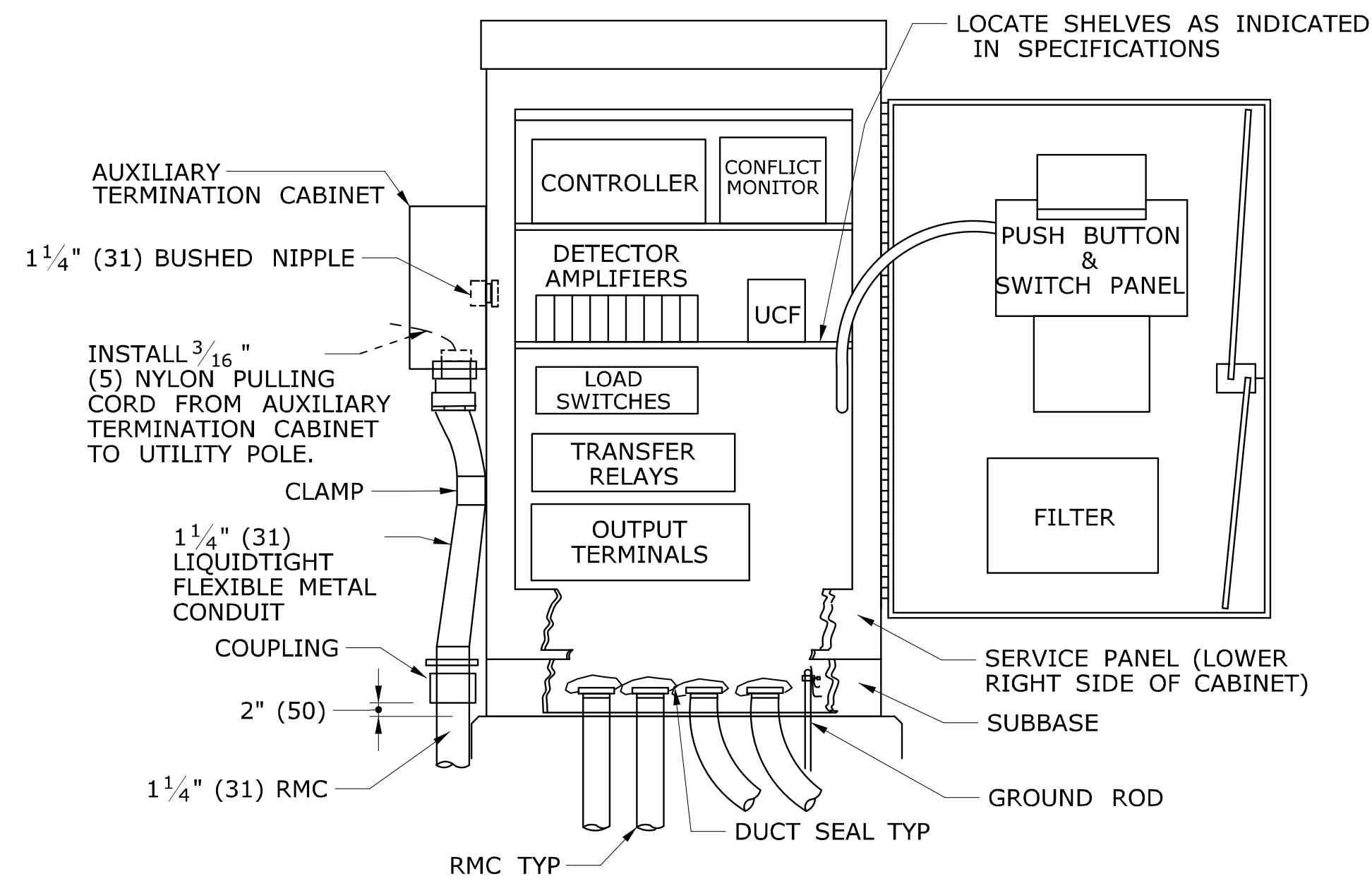
EXAMPLE ALIGNMENTS FOR EXCLUSIVE PEDESTRIAN PHASE



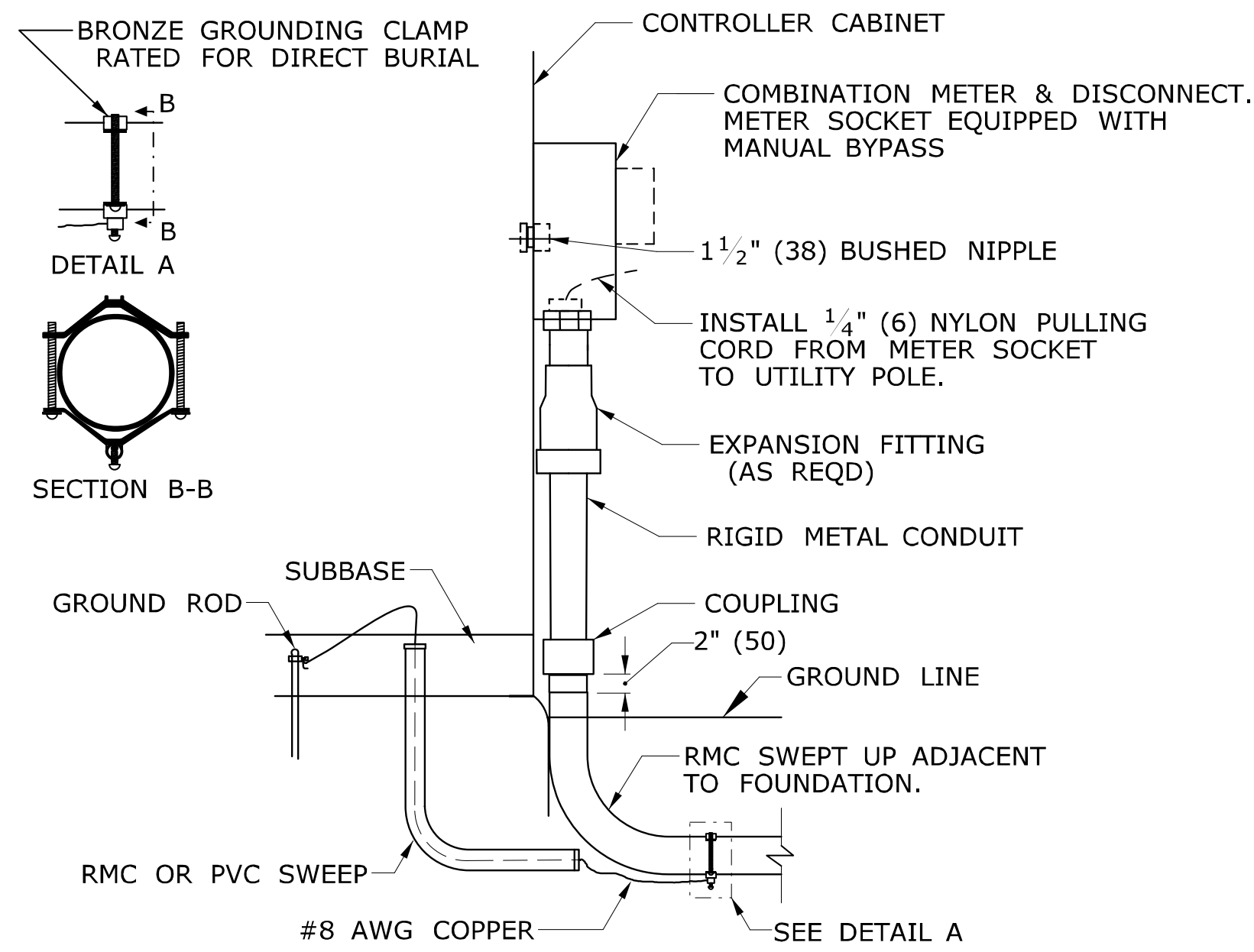
SIGN # 31-0845
* USE APPROPRIATE ARROW UNLESS OTHERWISE NOTED ON PLAN.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
 □ PEDESTRIAN PUSH BUTTON
 □ PEDESTRIAN PUSH BUTTON, PEDESTAL MOUNTED
 □ PEDESTRIAN PUSH BUTTON, POLE MOUNTED

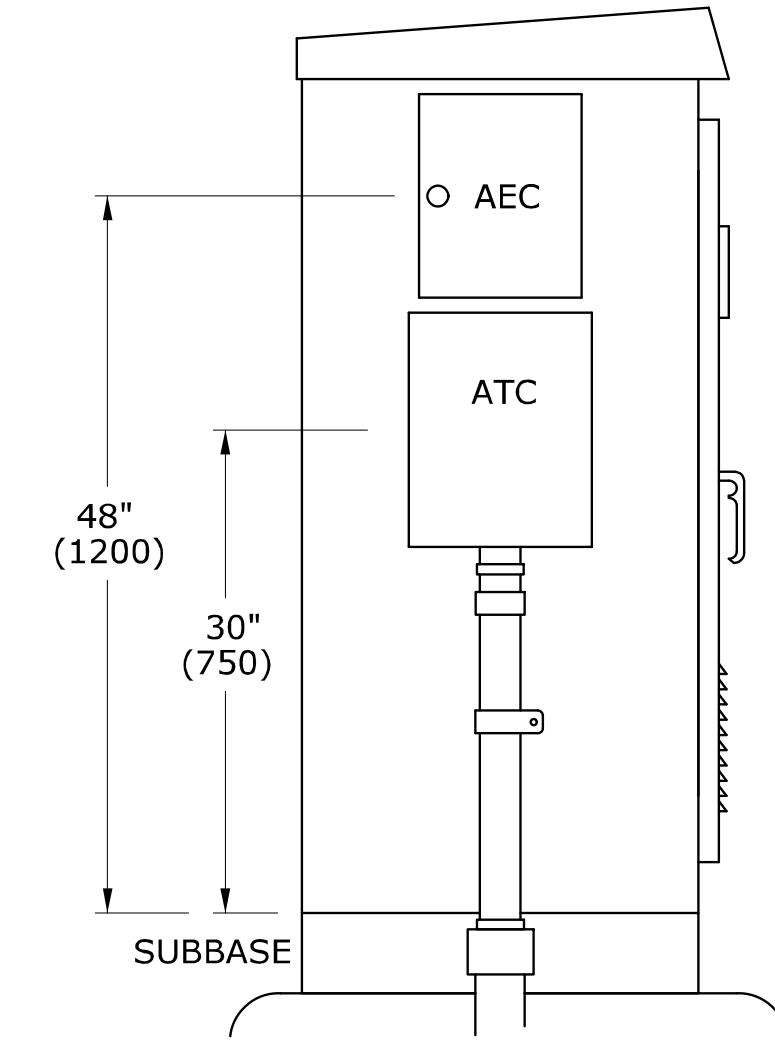
2	4-2014	ADDED PEDESTRIAN EXAMPLE ALIGNMENTS	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DIMENSIONS ARE IN ENGLISH (') & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: - OVER 1" TO NEAREST 5 mm - UNDER 1" TO NEAREST 1 mm.	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	SUBMITTED BY: NAME/DATE/TIME: <i>Tracy L. Fogarty</i> Tracy L. Fogarty, P.E. 2014.04.25 16:01:49-04'00"	CTDOT STANDARD SHEET OFFICE OF ENGINEERING	STANDARD SHEET TITLE: PEDESTRIAN PUSH BUTTONS	STANDARD SHEET NO.: TR-1107_01
1	4-2012	MINOR REVISIONS & UPDATED SIGN #31-0845.				APPROVED BY: NAME/DATE/TIME: <i>Charles S. Hartow</i> Digitally signed by Charles S. Hartow, P.E. Date: 2014.04.29 14:27:01-04'00"			
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 4/25/2014	NOT TO SCALE	Filename: CTDOT_TRAFFIC_STD.DGN Model: TR-1107_01				



TYPICAL BASE MOUNTED CONTROLLER ON TYPE IV FOUNDATION

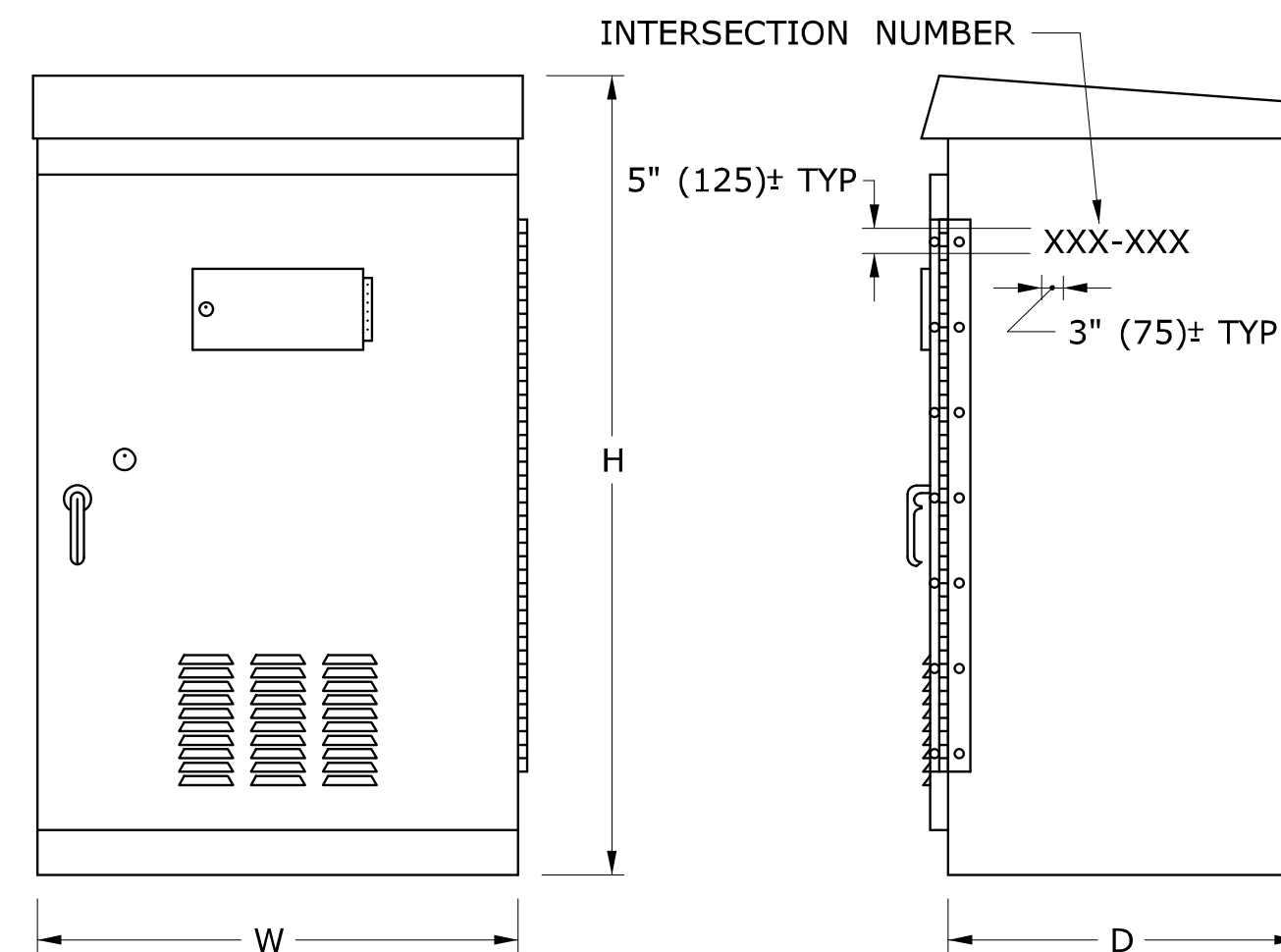


CONTROLLER CABINET WITH METERED SERVICE



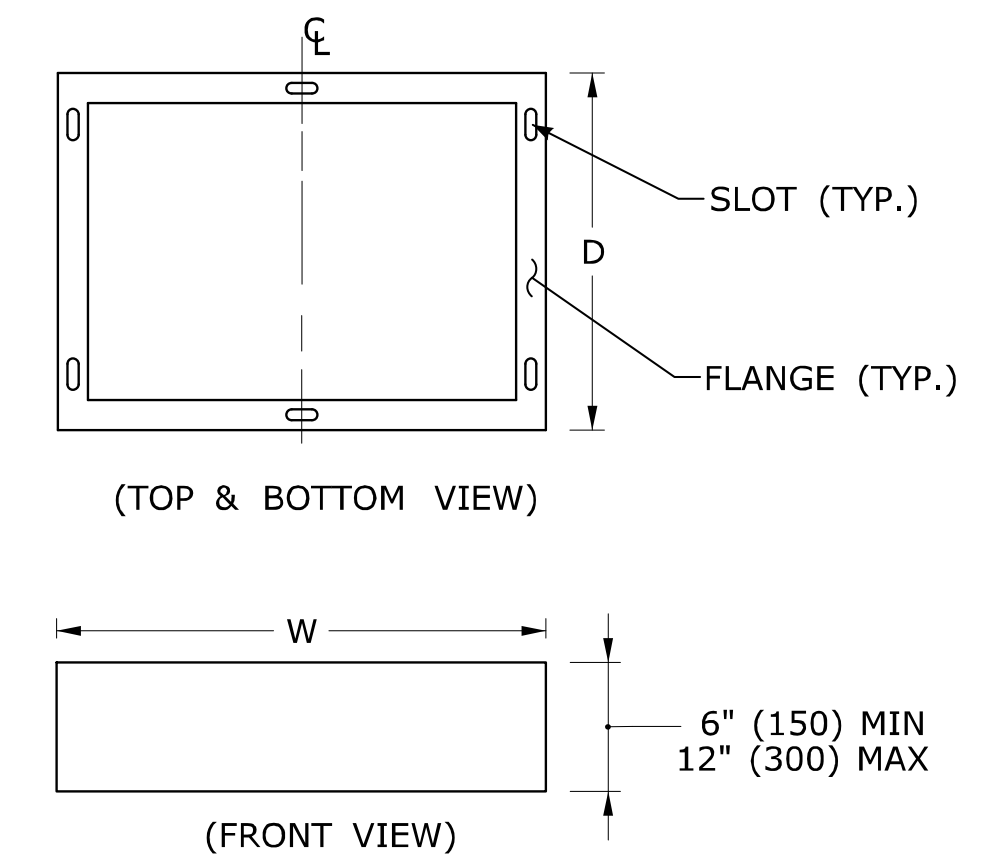
AUXILIARY EQUIPMENT CABINET (AEC) AUXILIARY TERMINATION CABINET (ATC)

CABINET TYPE	HEIGHT	WIDTH	DEPTH
ATC	16"(400)	12"(300)	6"(150)
AEC	14"(350)	11"(275)	11"(275)



BASE MOUNTED TRAFFIC CONTROLLER (TYPE B, D & E)

CABINET TYPE	DEPTH		WIDTH		HEIGHT	
	MIN	MAX	MIN	MAX	MIN	MAX
B	17" (425)	19" (475)	30" (750)	34" (850)	52" (1300)	56" (1400)
D	25" (625)	27" (675)	42" (1050)	45" (1125)	54" (1350)	59" (1475)
E	17" (425)	19" (475)	30" (750)	32" (800)	49" (1225)	52" (1300)



SUBBASE

SLOT AND FLANGE DIMENSIONS TO BE PER MANUFACTURER.

GENERAL NOTES:

- GROUT ALL BASES AFTER MOUNTING ON FOUNDATIONS, WHERE NECESSARY. 3'-0" (900) FROM SIDEWALK TO BOTTOM OF CONTROLLER.
- INSTALL PEDESTALS AND POLES SO THAT DOORS AND COVERS ARE ON THE SIDE AWAY FROM THE STREET, UNLESS OTHERWISE SPECIFIED.
- INSTALL CABINET SO THAT DOOR OPENS FIELD SIDE UNLESS OTHERWISE NOTED ON PLANS.
- CAULK SEAM BETWEEN SUBBASE AND FOUNDATION.
- STENCIL SIX DIGIT INTERSECTION NUMBER, USING BLACK PAINT ON SIDE, FRONT OR BACK OF CABINET MOST VISIBLE FROM THE ROAD.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:

	CONTROLLER ASSEMBLY
	AUXILIARY EQUIPMENT CABINET
	AUXILIARY TERMINATION CABINET

REV.	DATE	REVISION DESCRIPTION
2	5-2013	REVISED SUBBASE.
1	4-2012	REVISED CABINET TYPES & MINOR REVISIONS.

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Plotted Date: 5/15/2013

DIMENSIONS ARE IN ENGLISH (") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: - OVER 1" TO NEAREST 5 mm - UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

File name: CTDOT_TRAFFIC_STD.dgn Model: TR-1108_01

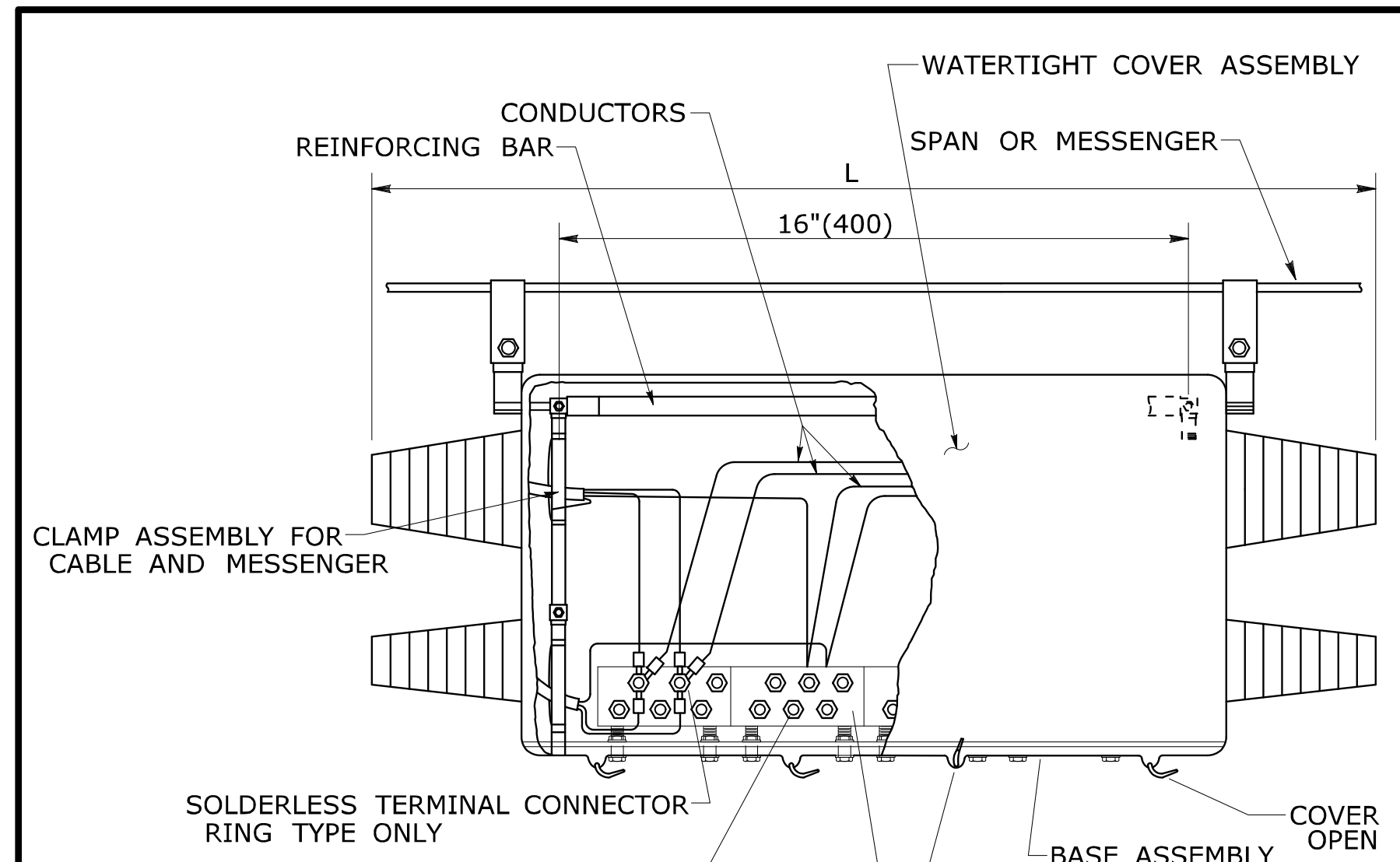
SUBMITTED BY: NAME/DATE/TIME: Tracy L. Fogarty 2013.07.29

APPROVED BY: NAME/DATE/TIME: Charles S. Harlow 2013.07.29 14:59:45-04'00"

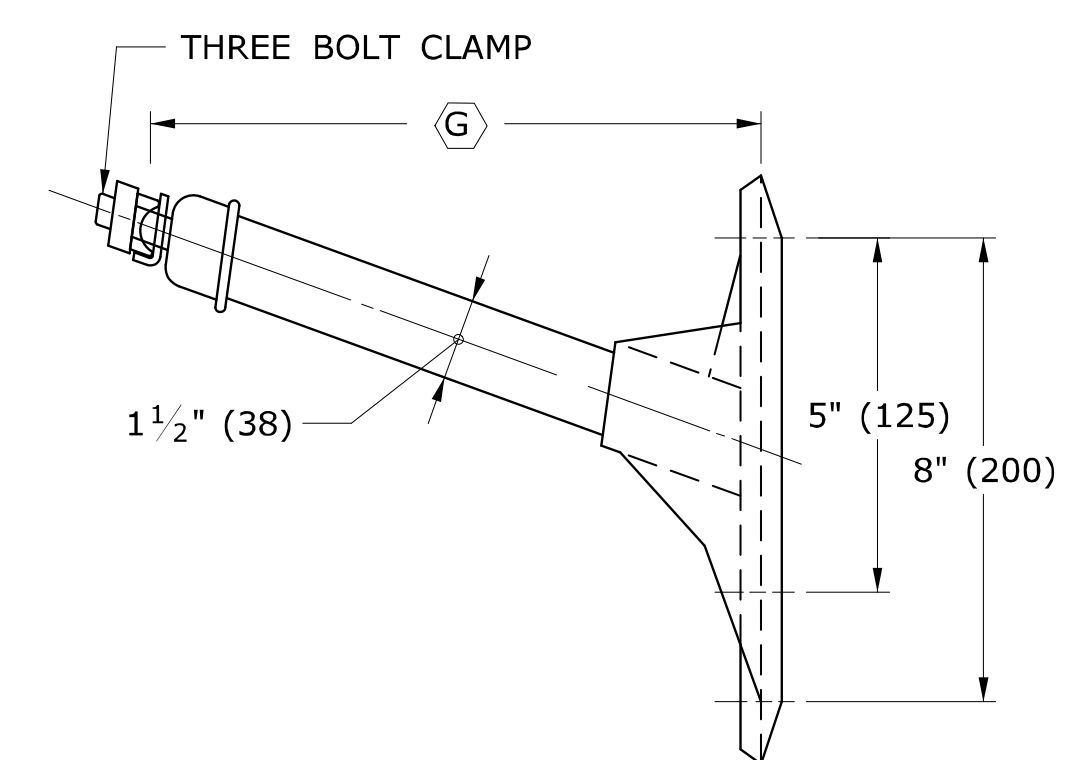
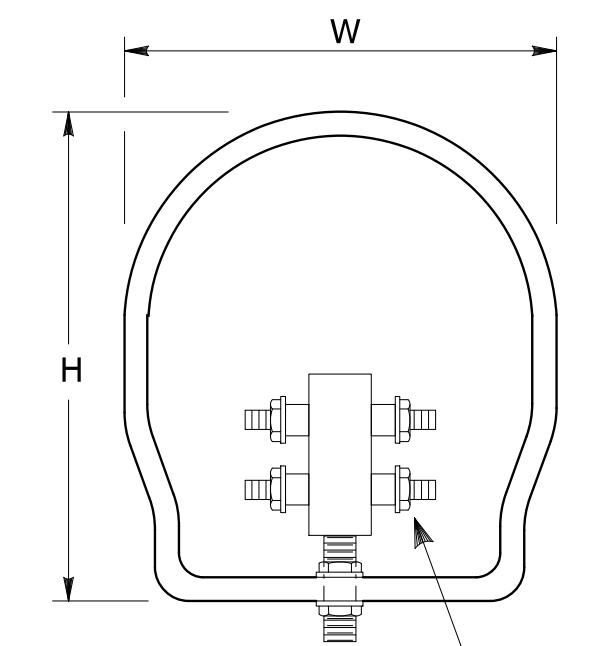
CTDOT STANDARD SHEET OFFICE OF ENGINEERING

STANDARD SHEET TITLE: CONTROLLERS

STANDARD SHEET NO.: TR-1108_01

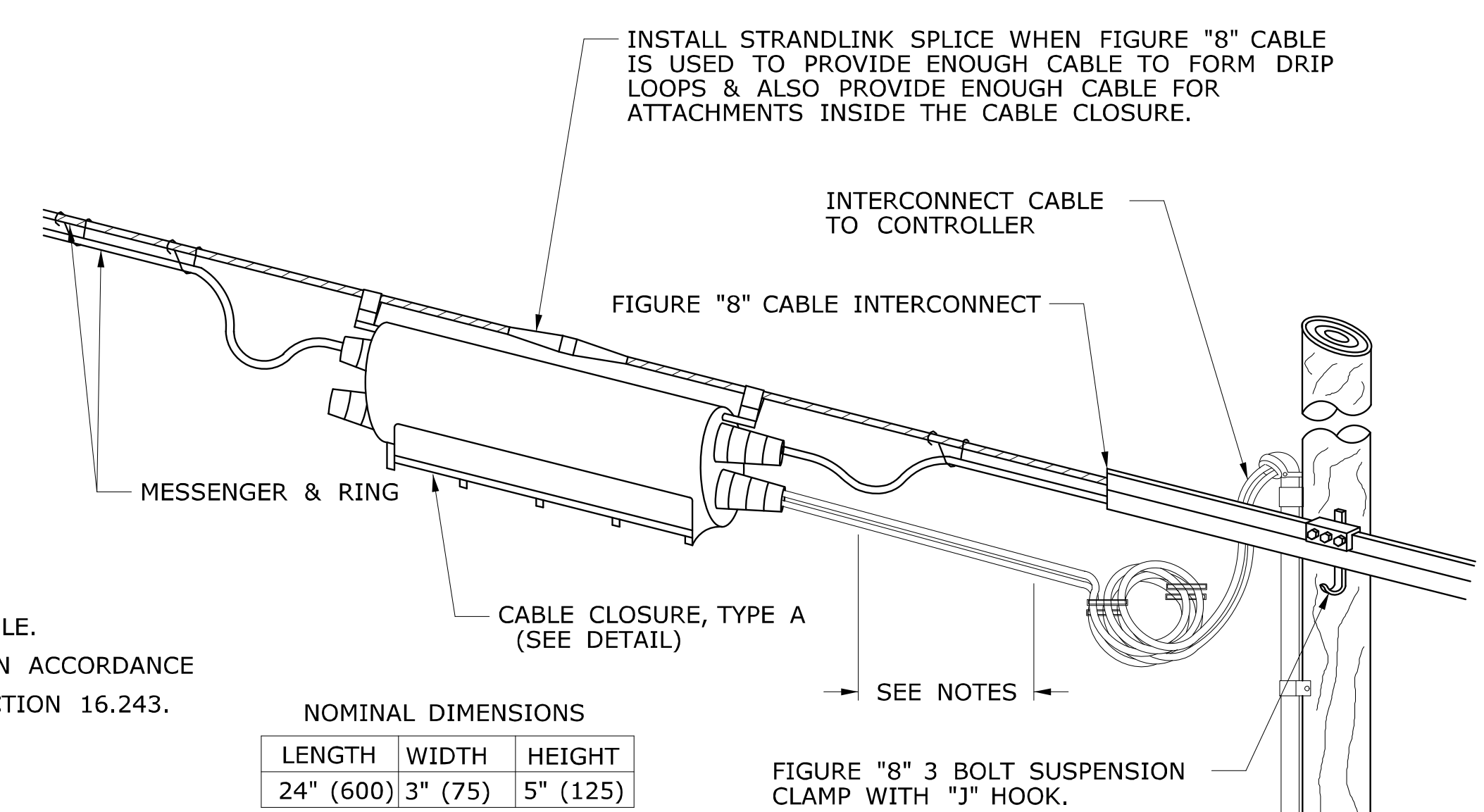


	LENGTH	WIDTH	HEIGHT
MIN	28" (700)	3" (75)	5" (125)
MAX	33" (840)	6" (150)	8" (200)



NOTES:
 5/8" (16) THROUGH BOLT IN TOP HOLE.
 1/2" (13) X 4" (100) LAG BOLT IN BOTTOM HOLE.
 (G) LENGTH REQUIRED TO PROVIDE CLEARANCE IN ACCORDANCE WITH PURA CONSTRUCTION STANDARD SECTION 16.243.

COMMUNICATION CABLE EXTENSION BRACKET



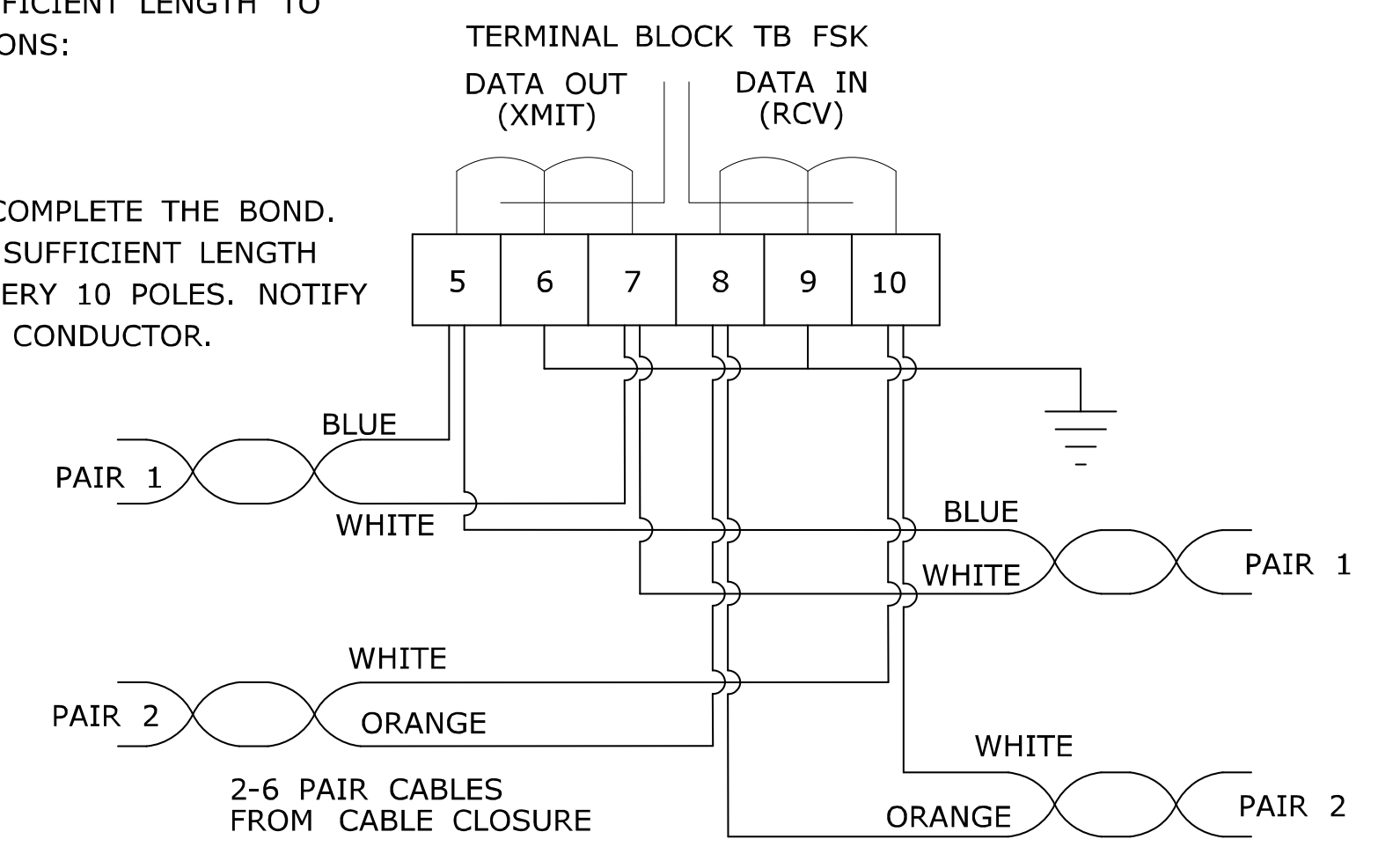
NOMINAL DIMENSIONS

LENGTH	WIDTH	HEIGHT
24" (600)	3" (75)	5" (125)

NOTES:
 CABLE LENGTH IS SHOWN EXTENDED TO CLARIFY DRIP LOOP LEADING TO ENTRANCE FITTINGS.
 WHEN CABLE IS TOO LARGE TO FORM DRIP LOOPS, INSTALL DIRECTLY INTO CLOSURE WITHOUT DRIP LOOPS.

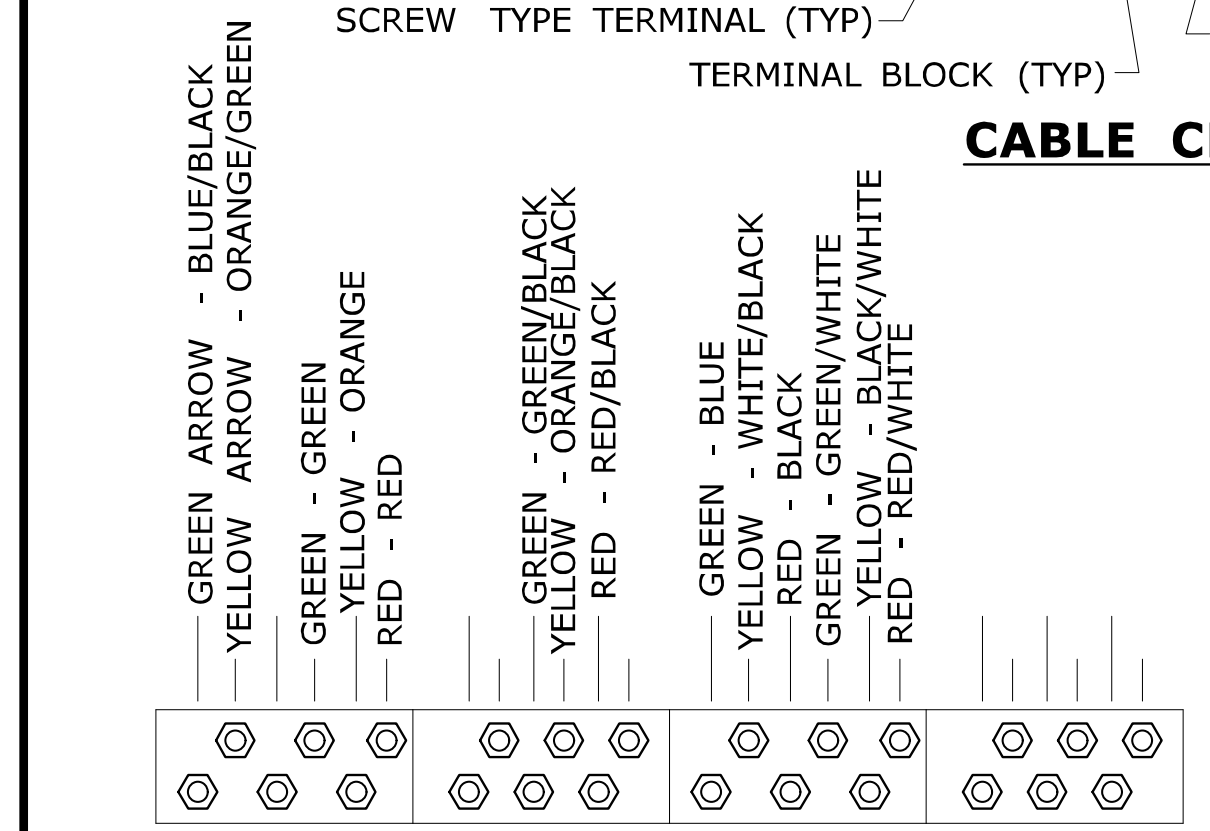
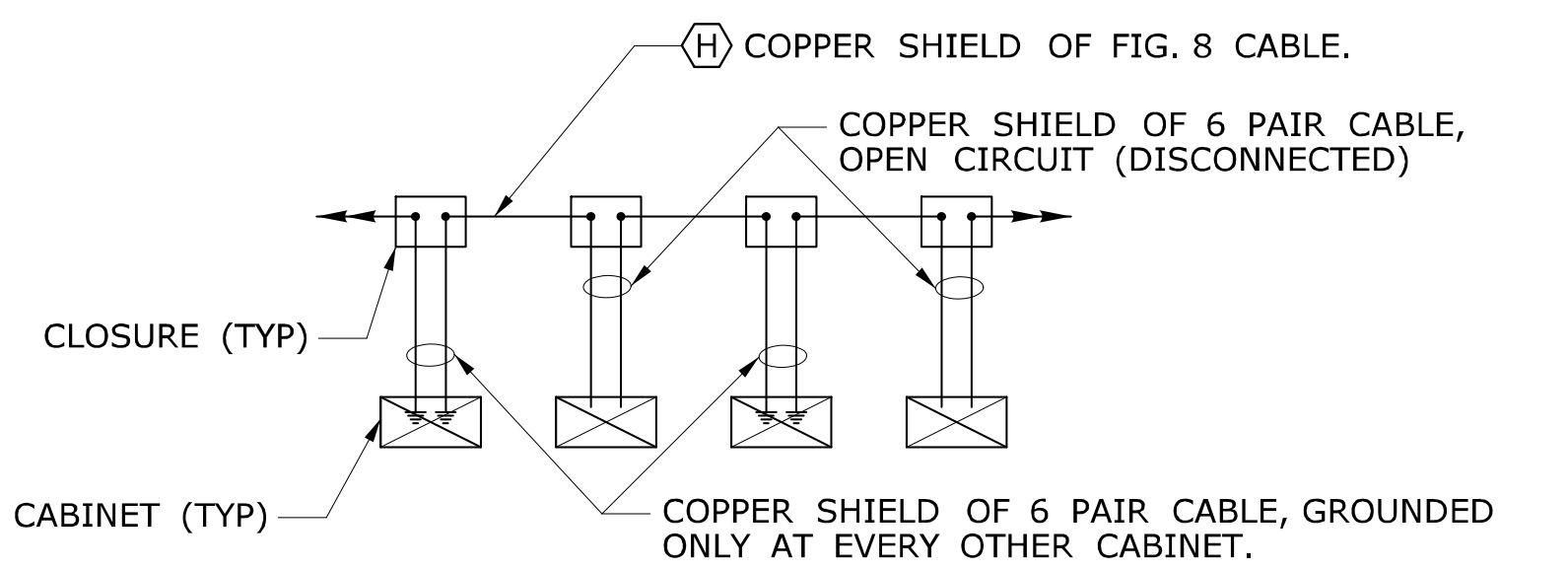
OVERHEAD INTERCONNECT INSTALLATION

BONDING AND GROUNDING REQUIREMENTS FOR COMMUNICATION CABLES
 1. PLACE BOND ON STRAND USING #6 AWG LEAVE COIL OF SUFFICIENT LENGTH TO REACH THE NEXT STRAND AT ALL OF THE FOLLOWING LOCATIONS:
 A. FIRST POLE
 B. LAST POLE
 C. JUNCTION POLE
 CONTACT THE UTILITY THAT OWNS THE NEXT STRAND TO COMPLETE THE BOND.
 2. LEAVE COIL #6 AWG WIRE ATTACHED TO CABLE STRAND OF SUFFICIENT LENGTH TO REACH VERTICAL GROUNDING CONDUCTOR AT LEAST EVERY 10 POLES. NOTIFY ELECTRIC COMPANY TO MAKE ATTACHMENT TO GROUNDING CONDUCTOR.



NOTES:
 CONNECT SHIELDS TO GROUND ONLY AT EVERY OTHER CABINET, LEAVE SHIELD OPEN AT ALTERNATE CABINETS.
 TAG 6 PAIR CABLES WITH INTERSECTION DESTINATION.
 SPARE PAIRS TO BE FOLDED BACK AND NEATLY TIED ADJACENT TO TERMINAL BLOCK.

TYPICAL COMMUNICATION CABLE CONNECTION IN CONTROLLER CABINET



RECOMMENDED CONNECTION OF 21 CONDUCTOR CABLE IN CLOSURE

NOTES:
 1. PROVIDE A MINIMUM OF FOUR TERMINAL BLOCKS WITH SEPARATE SCREW TYPE TERMINALS, SIX ON EACH SIDE.
 2. INSTALL SEPARATE CABLE BETWEEN CLOSURE & EACH TRAFFIC SIGNAL ASSEMBLY. WIRE EACH TRAFFIC SIGNAL SECTION SEPARATELY BACK TO CABLE CLOSURE. JUMPERS BETWEEN TERMINALS ARE NOT ALLOWED EXCEPT ON NEUTRAL CONDUCTORS.
 3. WIRE ALL SIGNALS, SAME DIRECTION FROM CONTROLLER, SEPARATELY WITH CONDUCTORS IN 21 OR 25 CONDUCTOR CABLE, EVEN IF INDICATIONS ARE IDENTICAL.
 4. PREVENT CONNECTORS, TERMINAL POSTS AND CONDUCTORS FROM CONTACT WITH CLOSURE COVER AND SECURELY WRAP WITH ELECTRICAL TAPE OR RUBBER MASTIC TAPE.
 5. CABLES THAT FEED PEDESTRIAN INDICATIONS, PUSH BUTTONS, AND DETECTORS BYPASS CABLE CLOSURE.
 6. INSTALL TRAFFIC SIGNAL CABLE CLOSURE ON THE SPAN ±5' (±1.5 m) FROM CURBLINE.

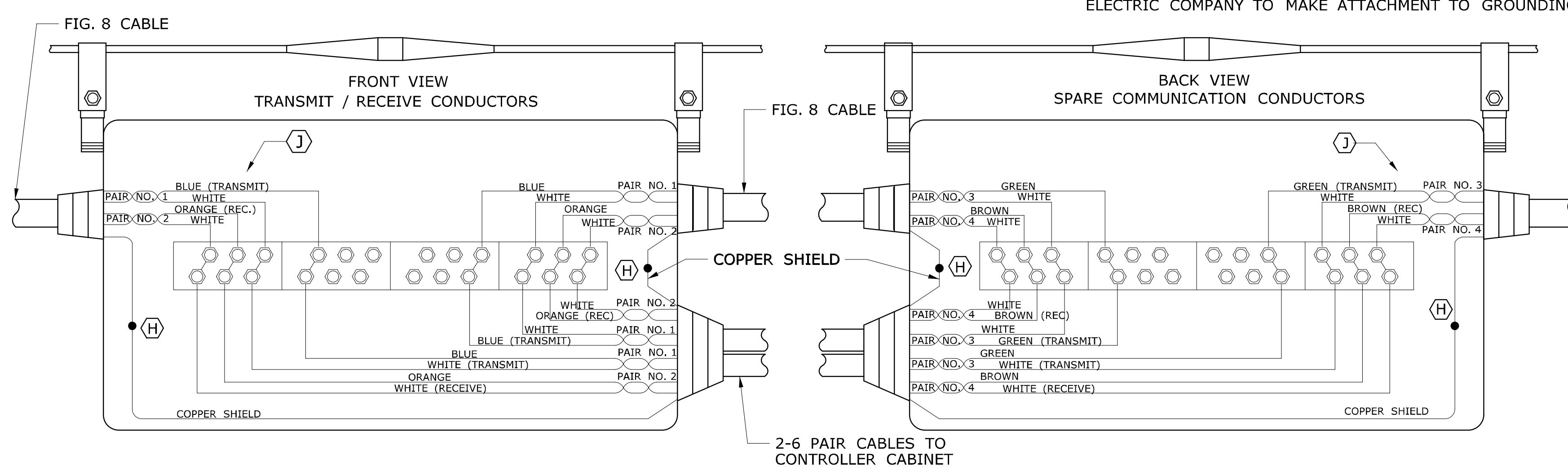
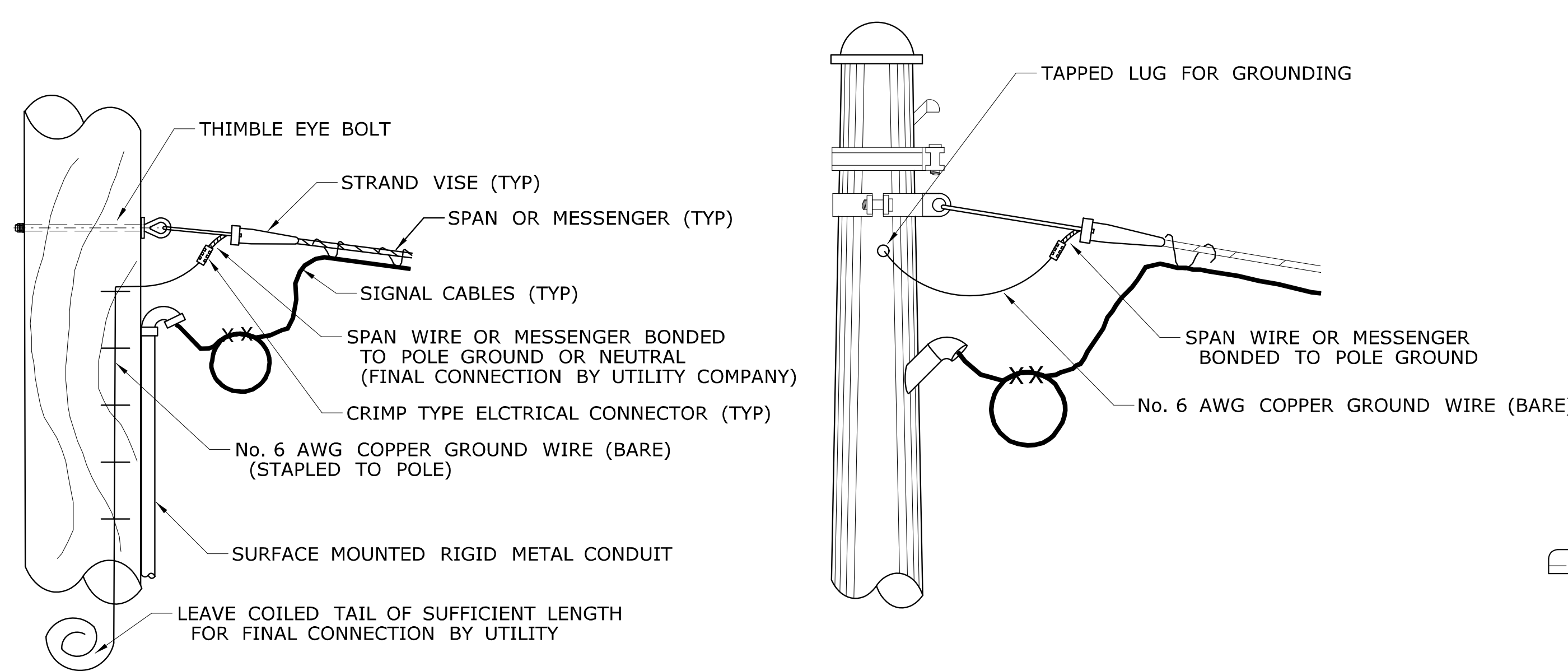


FIG. 8 CABLE				6 PAIR CABLE			
PAIR #	DOT SPARE	PAIR #	MUNICIPAL SPARES	PAIR #	DOT SPARE	PAIR #	DOT SPARE
3	GREEN - WHITE	5	SLATE - WHITE	5	SLATE - WHITE	5	SLATE - WHITE
4	BROWN - WHITE	6	BLUE - RED	6	BLUE - RED	6	BLUE - RED

NOTES:
 SPARE PAIRS TO BE FOLDED BACK AND NEATLY TIED. GROUP MUNICIPAL SPARES TOGETHER, SEPARATE FROM THOSE RESERVED FOR D.O.T. MUNICIPAL SPARES ARE NOT TO BE CUT.
 DO NOT BOND THE CABLE SHEATH TO THE SUPPORT STRAND.
 (H) CONNECT ONLY TO SHIELD OF CORRESPONDING 6 PAIR CABLE.
 (J) WHEN CONNECTING TO AN EXISTING SYSTEM, VERIFY COLOR CODE OF TRANSMIT AND RECEIVE CONDUCTORS.

TYPICAL COMMUNICATION CABLE CONNECTION IN CABLE CLOSURE, TYPE A

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
 ○ PROPOSED UTILITY POLE
 ● EXISTING UTILITY POLE
 ▲ POLE ANCHOR & GUY
 ▬ CABLE CLOSURE

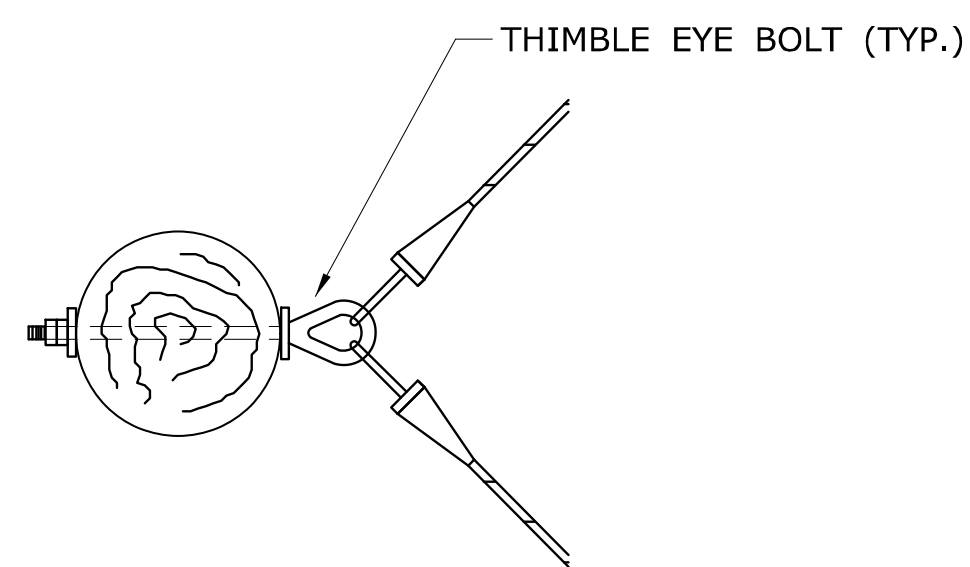


WOOD UTILITY POLE

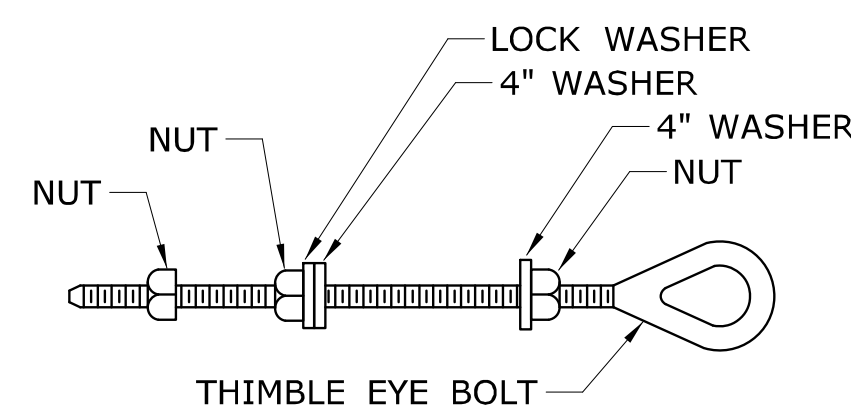
STEEL POLE

TYPICAL BONDED ATTACHMENT DETAIL FOR SPAN/MESSENGER

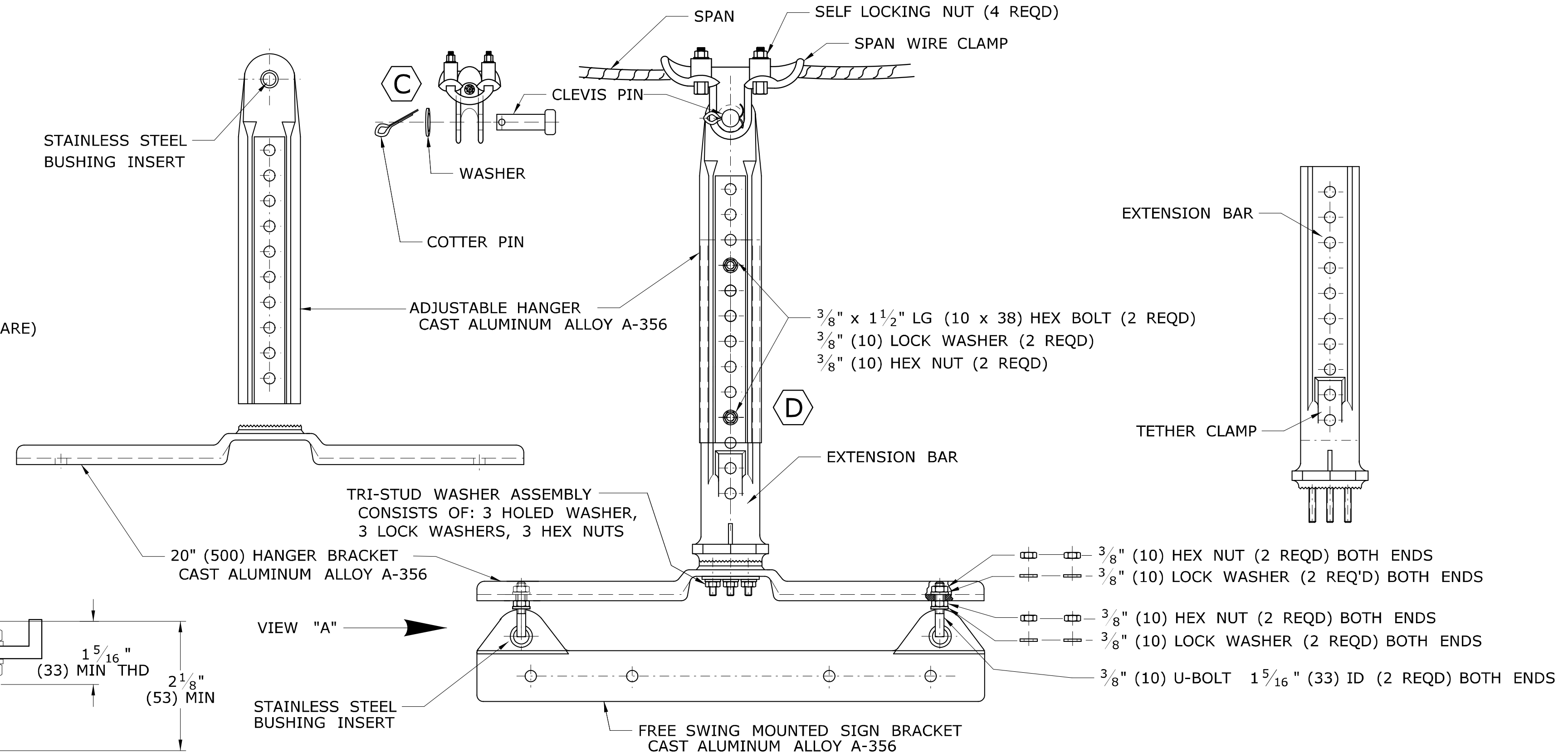
NOTES:
NOTE THAT EXISTING COPPER GROUND WIRE MAY BE USED IF AVAILABLE.
ALL ATTACHMENTS REQUIRE BONDING.



TYPICAL SINGLE ATTACHMENT WITH DOUBLE PULL-OFF

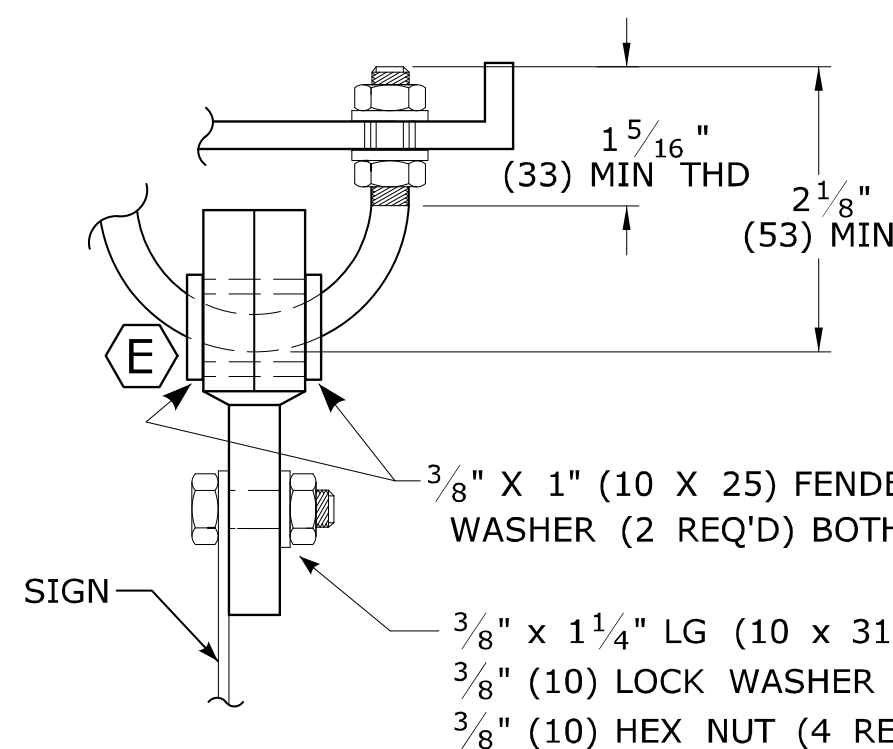


THIMBLE EYE BOLT SUPPLIED BY THE CONTRACTOR.

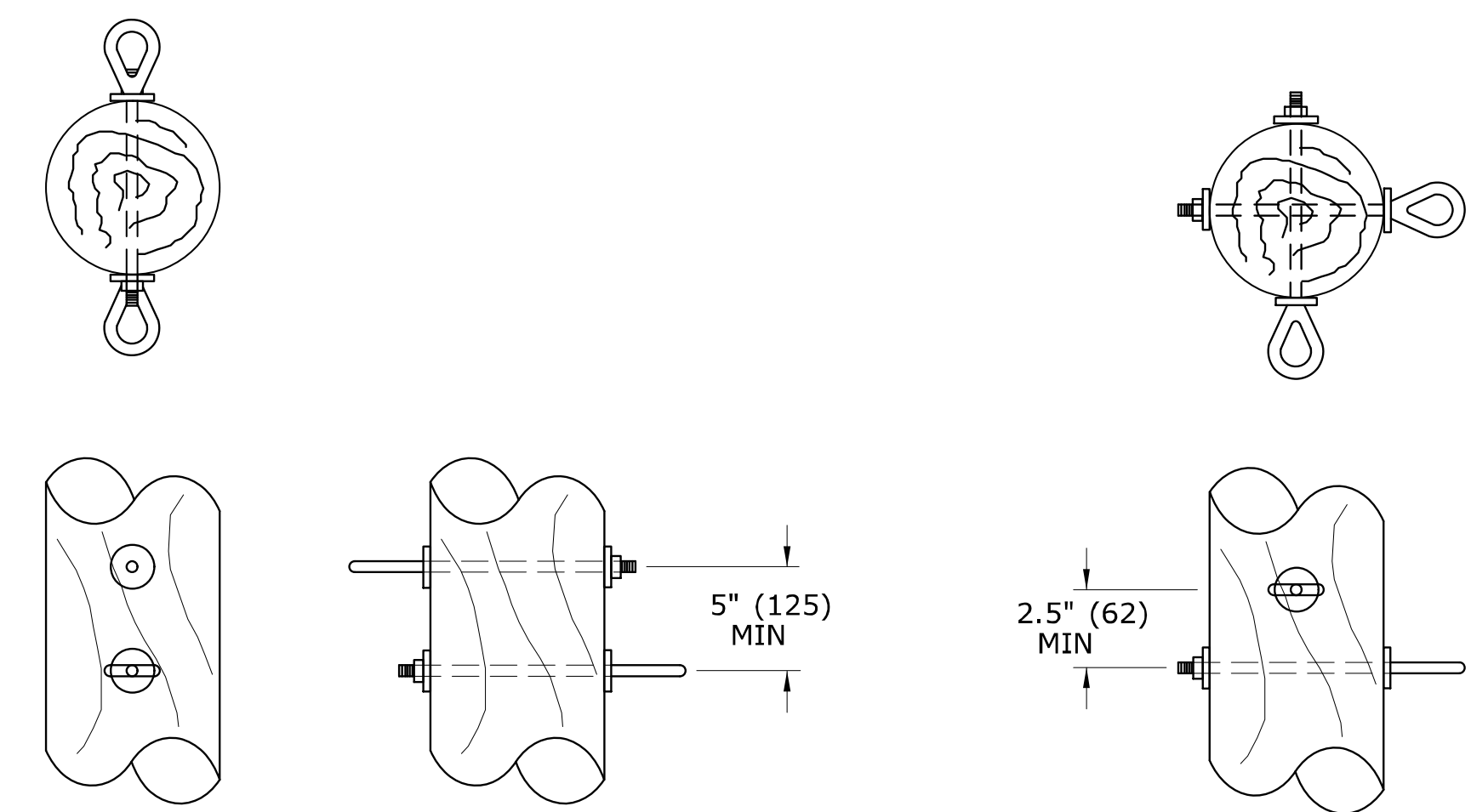


FREE SWINGING SPAN MOUNTED SIGN HANGER ASSEMBLY

NOTES:
ALL STAINLESS STEEL HARDWARE: BOLTS, NUTS, WASHERS, CLEVIS PIN, COTTER PIN, ETC.
C INSTALL CLEVIS PIN SO THAT THE WASHER AND COTTER PIN ARE ON SIDE OF HANGER AWAY FROM SIGNAL CABLES.
D OVERLAP MAXIMUM NUMBER OF HOLES SEAT SNUGLY ON EXTENSION BAR. LEAVE BOTTOM HOLE OPEN FOR TETHER CLAMP.
E INSTALL FENDER WASHER ON U-BOLT, ON BOTH ENDS, ON BOTH SIDES OF SIGN BRACKET.



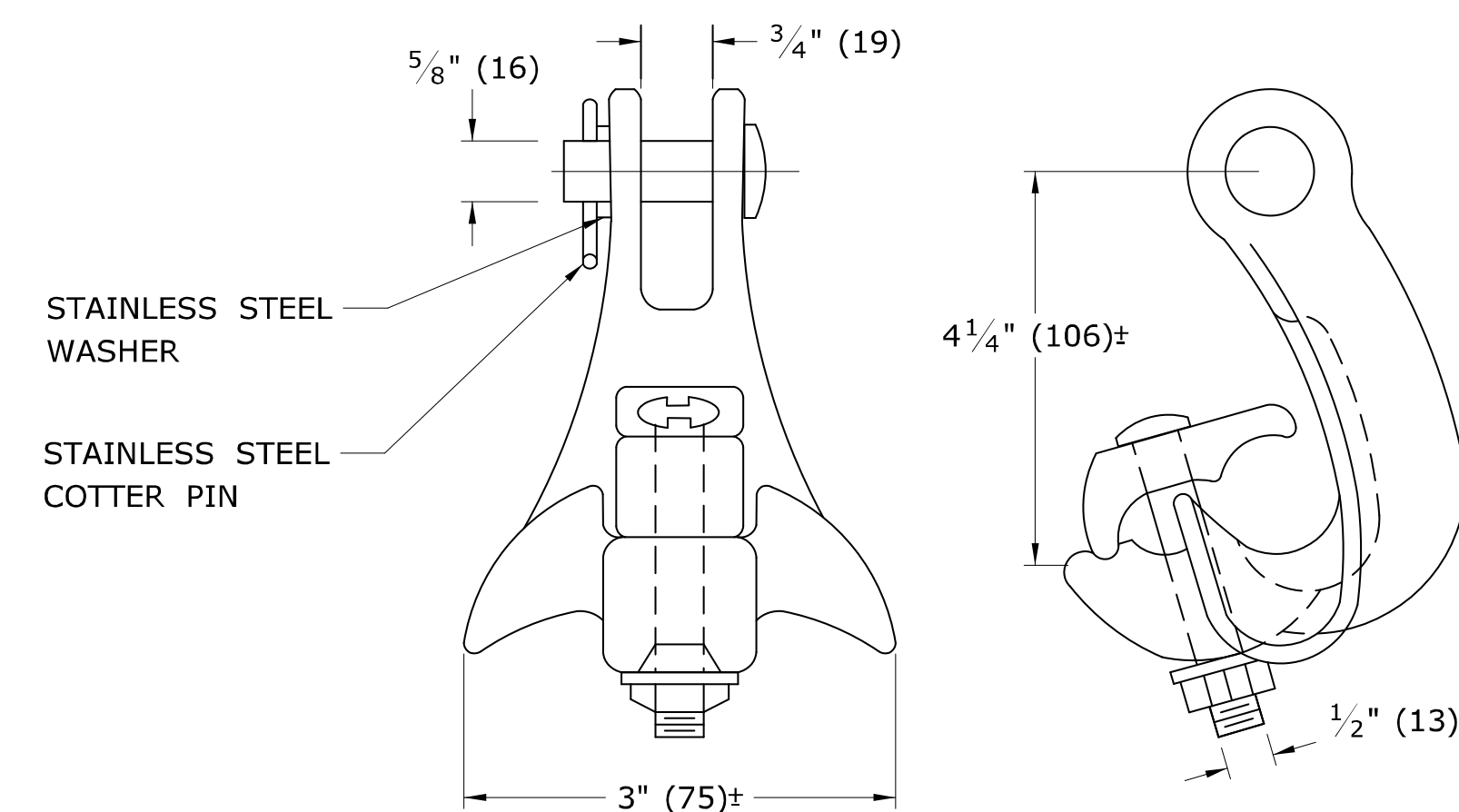
VIEW "A" END VIEW



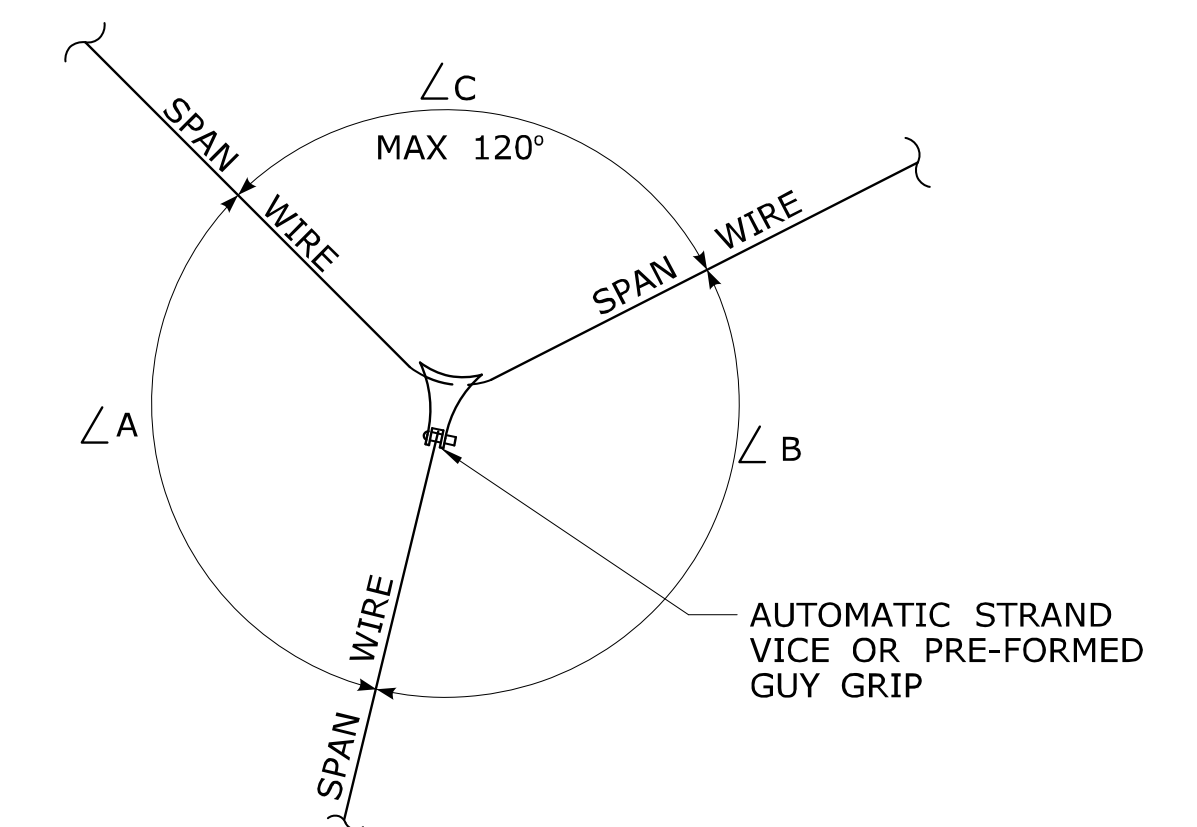
SAME PLANE

PERPENDICULAR

TYPICAL DOUBLE ATTACHMENT DETAIL ON WOOD POLE



TANGENT "Y" SPAN CLAMP DETAIL



CLAMP ORIENTATION DETAIL

NOTES:
MINIMUM 11,000 LBS. (10.7 kN) BREAKING STRENGTH.
CLAMP SMALLEST ANGLE OF Y CONNECTION.
 $\angle A \approx \angle B$ SO PULL-OFF BISECTS $\angle C$.

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:
SPAN MOUNTED SIGN

NOTE:
METHOD OF ATTACHMENT TO BE DETERMINED BY POLE CUSTODIAN.

REV.	DATE	REVISION DESCRIPTION
3	3-2015	REVISED SPAN WIRE TO WOOD POLE DETAILS, ADDED BONDING ATTACHMENT DETAILS, REMOVED ANCHOR.
2	4-2014	ADDED SIGNAL "Y" SPAN ATTACHMENT DETAIL.
1	4-2012	INCLUDED SIGN HANGER BOLTS, REMOVED AUDIBLE PED. SIGNAL & RENUMBERED STANDARD SHEET (FROM TR-1107_02).

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

DIMENSIONS ARE IN ENGLISH (") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: + OVER 1" TO NEAREST 5 mm - UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

Plotted Date: 5/12/2015

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

FILENAME: CTDOT_TRAFFIC_STD.DGN MODEL: TR-1114_01

SUBMITTED BY: NAME/DATE/TIME:
Tracy L. Fogarty, P.E. 2015.05.12 12:17:18-04'00'

APPROVED BY: NAME/DATE/TIME:
Charles S. Harlow, P.E. 2015.05.12 15:41:34-04'00'

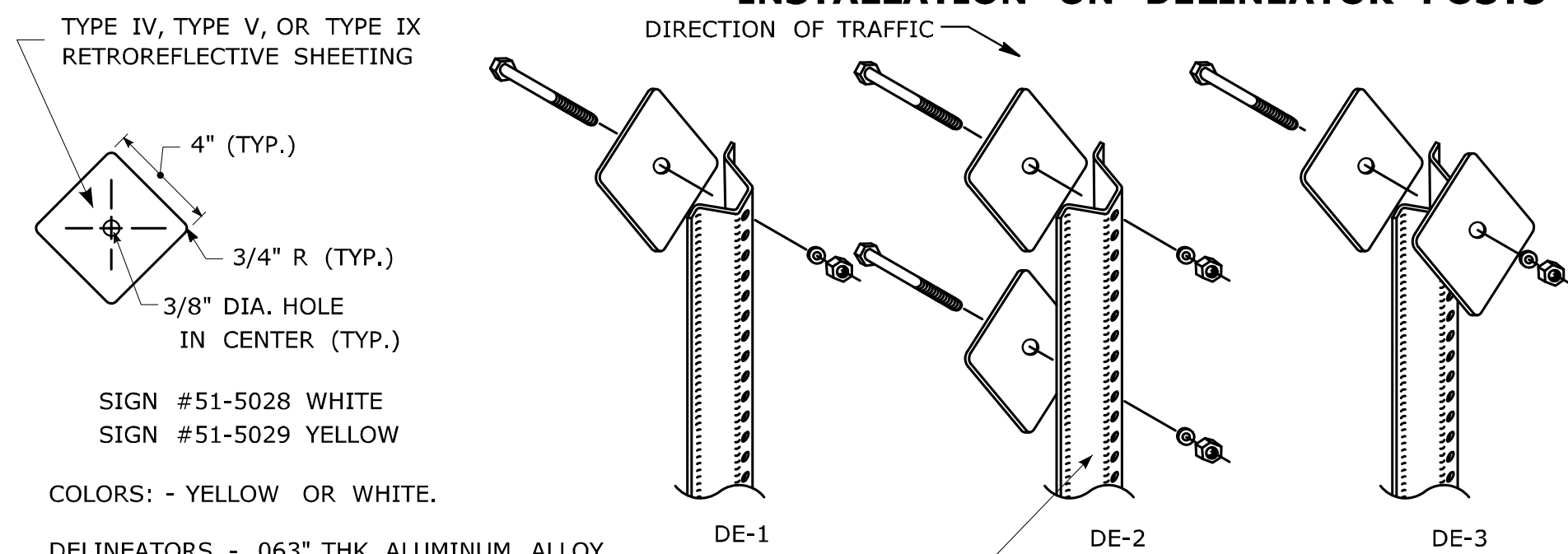
CTDOT
STANDARD SHEET
OFFICE OF ENGINEERING

STANDARD SHEET TITLE:
BONDING AND UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAIL

STANDARD SHEET NO.:
TR-1114_01

DELINEATORS DE-1, DE-2, DE-3

INSTALLATION ON DELINEATOR POSTS



SIGN #51-5028 WHITE
SIGN #51-5029 YELLOW

COLORS: - YELLOW OR WHITE.

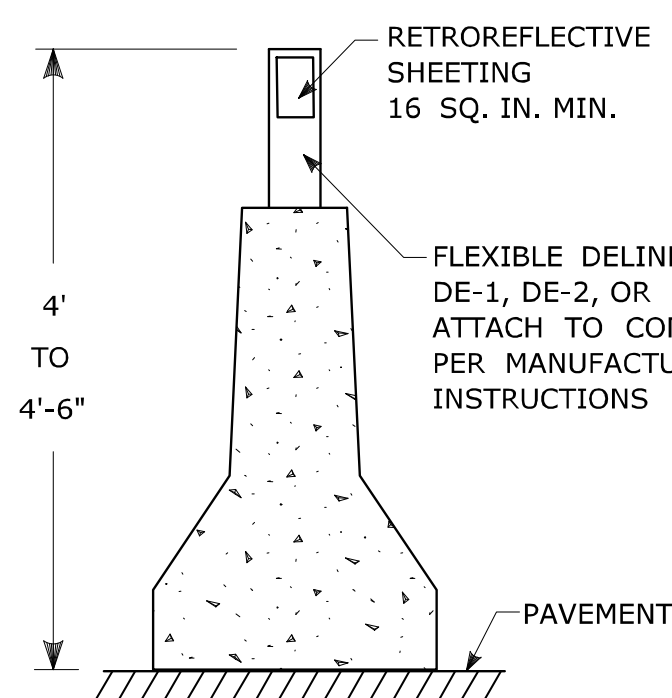
DELINEATORS - .063" THK. ALUMINUM ALLOY.

FACE SHALL BE PRESSURE SENSITIVE, SELF ADHERING, TYPE IV, TYPE V, OR TYPE IX RETROREFLECTIVE SHEETING.

DELINEATORS SHALL BE FASTENED WITH 5/16" STAINLESS STEEL ASTM A-193 CLASS 1, GRADE B8 (TYPE 304) OR BETTER HEX HEAD BOLT (LENGTH AS REQUIRED), WASHER AND FIBER INSERT SELF LOCKING NUT, ON STANDARD METAL DELINEATOR POST.

DELINEATORS DE-1, DE-2, DE-3 TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

INSTALLATION ON PERMANENT CONCRETE BARRIER, BRIDGE PARAPETS & RETAINING WALLS



5/16" STAINLESS STEEL ASTM A-193, CLASS 1 GRADE B8 (TYPE 304) OR BETTER HEX HEAD BOLT, LENGTH AS REQ'D (TYP.)

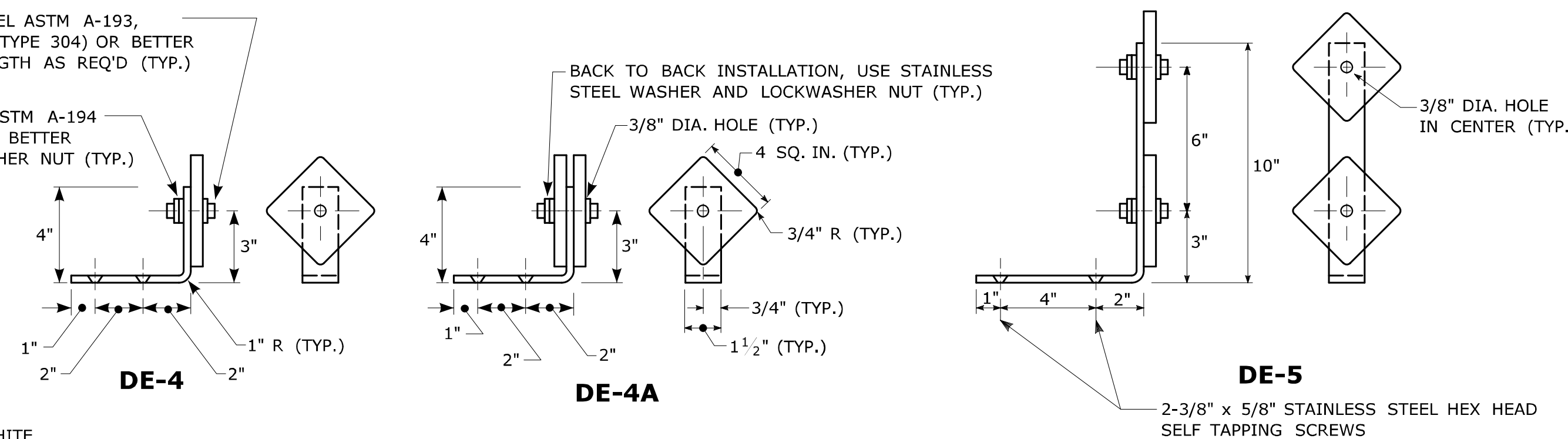
USE STAINLESS STEEL ASTM A-194 GRADE 8 (TYPE 304) OR BETTER WASHER AND LOCKWASHER NUT (TYP.)

COLORS: - YELLOW OR WHITE.

DELINEATORS - .063" THK. ALUMINUM ALLOY. BRACKET - .125" THK. ALUMINUM ALLOY, AND SHALL CONFORM TO SPECIFICATION M.18.07-03 BRIDGE RAIL MOUNTING BRACKETS. FACE SHALL BE PRESSURE SENSITIVE, SELF ADHERING, TYPE IV, TYPE V, OR TYPE IX RETROREFLECTIVE SHEETING. USE STAINLESS STEEL WASHERS ON FACE OF DELINEATORS, 5/8" O.D. X 3/8" I.D. X .032" THK. (TYP.)

DELINEATORS TYPE DE-4, DE-4A, AND DE-5 TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

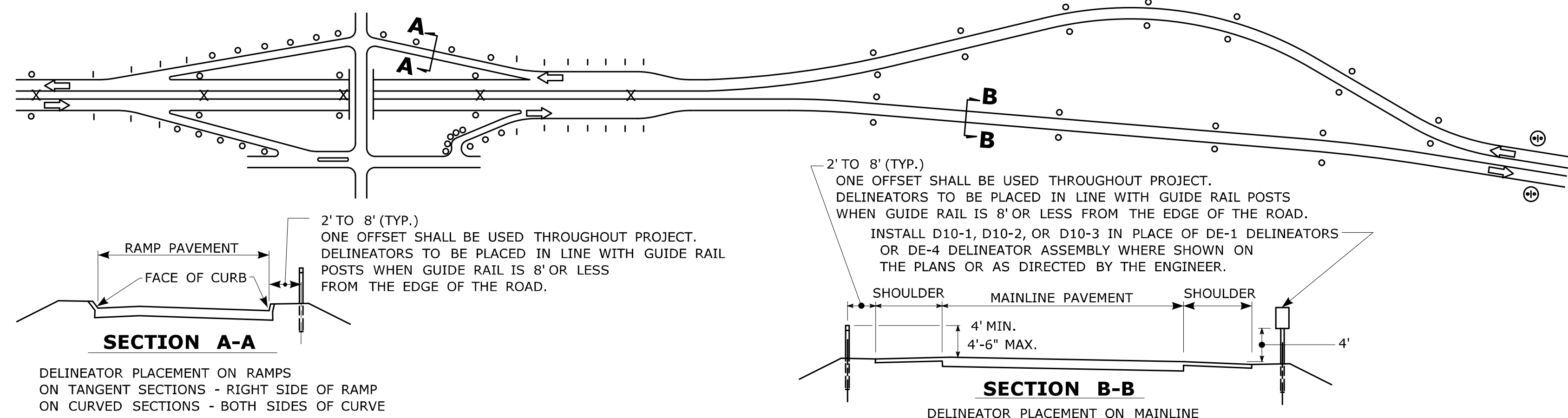
DELINEATORS DE-4, DE-4A, DE-5 FOR INSTALLATION ON METAL BRIDGE RAIL



COLORS: - YELLOW OR WHITE.

DELINEATORS - .063" THK. ALUMINUM ALLOY. BRACKET - .125" THK. ALUMINUM ALLOY, AND SHALL CONFORM TO SPECIFICATION M.18.07-03 BRIDGE RAIL MOUNTING BRACKETS. FACE SHALL BE PRESSURE SENSITIVE, SELF ADHERING, TYPE IV, TYPE V, OR TYPE IX RETROREFLECTIVE SHEETING. USE STAINLESS STEEL WASHERS ON FACE OF DELINEATORS, 5/8" O.D. X 3/8" I.D. X .032" THK. (TYP.)

TYPICAL MAINLINE & INTERCHANGE DELINEATION



DELINEATOR SPACING NOTES:

- 1) AT LOCATIONS WHERE THE MEDIAN WIDTH (BETWEEN SHOULDERS) IS 12' OR LESS, AND MEDIAN BEAM RAIL IS PRESENT, TYPE DE-3 DELINEATORS SHALL BE MOUNTED WITHIN THE MEDIAN BEAM RAIL.
- 2) SPACING ON MAINLINE EXPRESSWAY TANGENTS SHALL BE 400'.
- 3) SPACING ON MAINLINE EXPRESSWAY CURVES SHALL BE AS SPECIFIED IN TABLE 3F-1 OF THE MUTCD.
- 4) ON ACCELERATION AND DECELERATION LANES AND ON-RAMP TANGENT SECTIONS, DELINEATOR SPACING SHALL BE 100'.
- 5) ON CURVED PORTIONS OF RAMP, DELINEATOR SPACING SHALL BE IN ACCORDANCE WITH TABLE 3F-1 OF THE MUTCD, BUT NOT TO EXCEED 100'.

LEGEND:

- DE-1 DELINEATORS OR DE-4 DELINEATOR ASSEMBLY
- DE-2 DELINEATORS OR DE-5 DELINEATOR ASSEMBLY
- ⊗ DE-3 DELINEATORS ASSEMBLY OR DE-4A DELINEATOR
- Ⓢ D10-1, 2, 3, OR 4 ASSEMBLY TO BE INSTALLED WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

COLOR APPLICATION, FOR DE-1 THRU DE-5

LEFT SIDE OF ALL ROADWAYS AND RAMP - YELLOW
RIGHT SIDE OF ALL ROADWAYS AND RAMP - WHITE

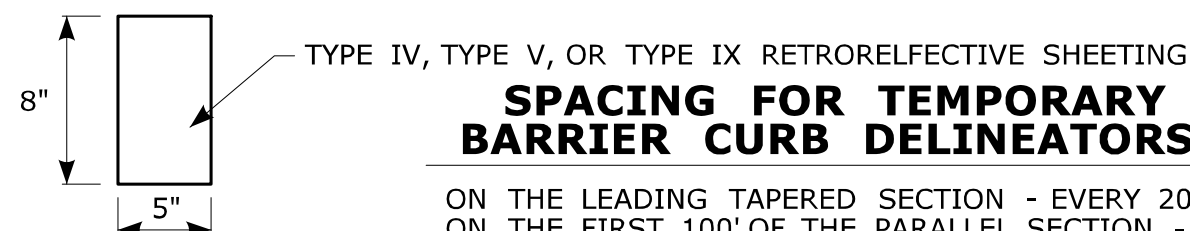
MUTCD TABLE 3F-1 APPROXIMATE SPACING FOR DELINEATORS ON HORIZONTAL CURVES

RADIUS (R) OF CURVE (feet)	APPROXIMATE SPACING (S) ON CURVE (feet)
50	20
115	25
180	35
250	40
300	50
400	55
500	65
600	70
700	75
800	80
900	85
1,000	90

DISTANCE IN FEET WERE ROUNDED TO THE NEAREST 5 FEET. SPACING FOR SPECIFIC RADII MAY BE INTERPOLATED FROM TABLE. THE MINIMUM SPACING SHOULD BE 20 FEET. THE SPACING ON CURVES SHOULD NOT EXCEED 300 FEET. IN ADVANCE OF OR BEYOND A CURVE, AND PROCEEDING AWAY FROM THE END OF THE CURVE, THE SPACING OF THE FIRST DELINEATOR IS 2S, THE SECOND IS 3S, AND THE THIRD 6S BUT NOT TO EXCEED 300 FEET. S REFERS TO THE DELINEATOR SPACING FOR SPECIFIC RADII COMPUTED FROM THE FORMULA: S=3R/50.

DELINEATORS DE-7, DE-7A, DE-7B, DE-7C FOR INSTALLATION ON TEMPORARY PRECAST CONCRETE BARRIER CURB AND TEMPORARY PRECAST CONCRETE BARRIER CURB (STRUCTURE)

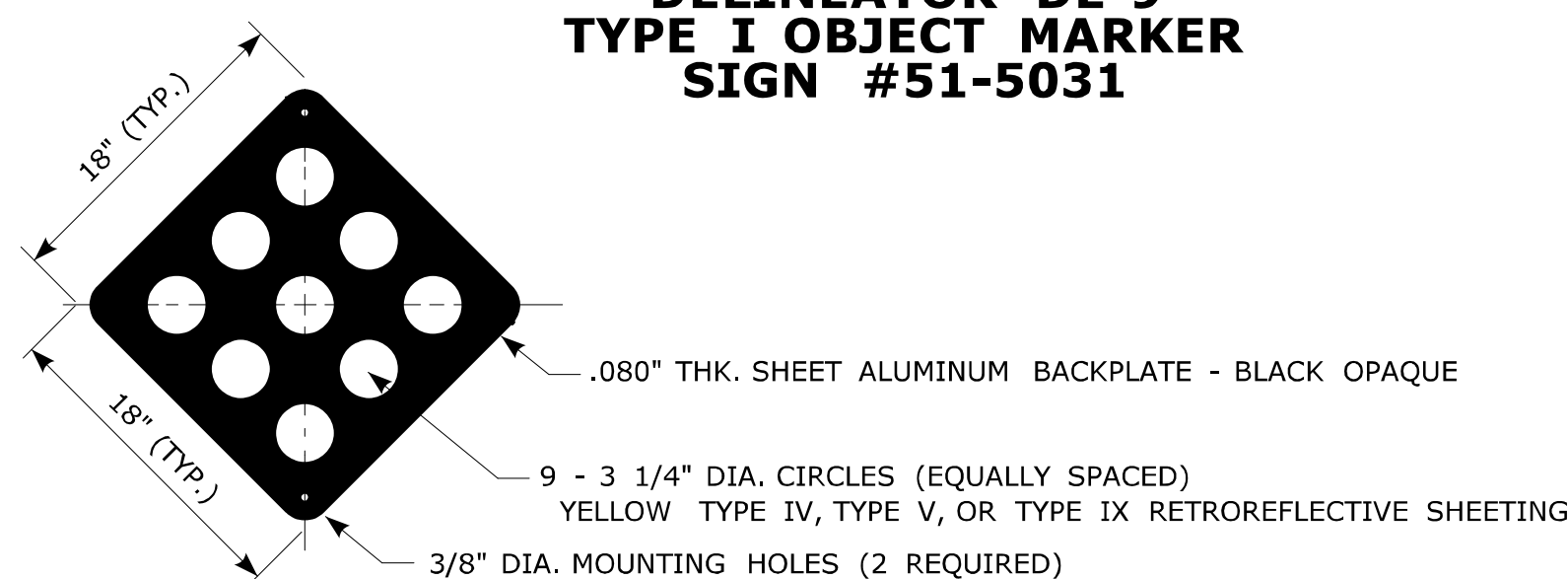
DE-7 ONE WAY WHITE
DE-7A ONE WAY YELLOW
DE-7B TWO WAY YELLOW
DE-7C WHITE/YELLOW BACK TO BACK
TEMPORARY PRECAST CONCRETE BARRIER
DELINEATORS ARE TO BE FABRICATED OF ALUMINUM, STEEL, PLASTIC, OR OF A MATERIAL APPROVED BY THE ENGINEER AND MOUNTED IN THE CENTER OF EACH SECTION OF TEMPORARY BARRIER AS REQUIRED AND PER MANUFACTURER'S INSTRUCTIONS.



ON THE LEADING TAPERED SECTION - EVERY 20', ON THE FIRST 100' OF THE PARALLEL SECTION - EVERY 20', ON THE REMAINING LENGTH - EVERY 100', MINIMUM OF 2 IF LESS THAN 100'.
ALTERNATING ONE WAY TRAFFIC - EVERY 20', ALL OTHER ROADWAYS SHALL BE DELINEATED IN ACCORDANCE WITH MUTCD.

DELINEATORS DE-7, DE-7A, DE-7B, DE-7C TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

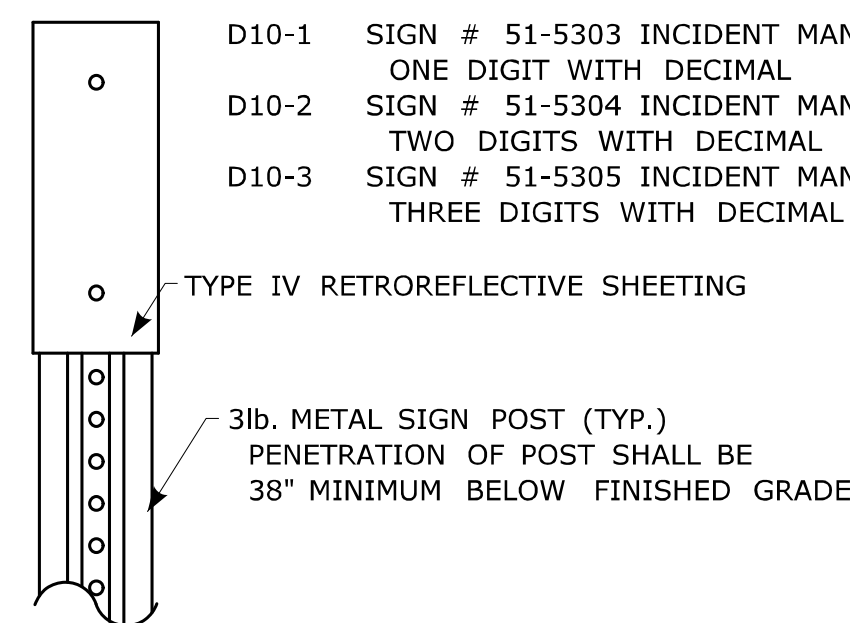
DELINEATOR DE-9 TYPE I OBJECT MARKER SIGN #51-5031



WHEN ERECTED AS A SEPARATE INSTALLATION A 3lb. METAL SIGN POST SHALL BE USED. THE BOTTOM OF THE DE-9 SHALL BE 4' ABOVE THE ADJACENT PAVEMENT AND THE PENETRATION OF THE POST SHALL BE 38" MINIMUM BELOW THE FINISHED GRADE.

DELINEATORS DE-9 TO BE PAID FOR UNDER SECTION 12.05 DELINEATORS.

DELINEATORS D10-1, D10-2, D10-3, D10-4 INCIDENT MANAGEMENT AND MILE POST MARKER ASSEMBLY

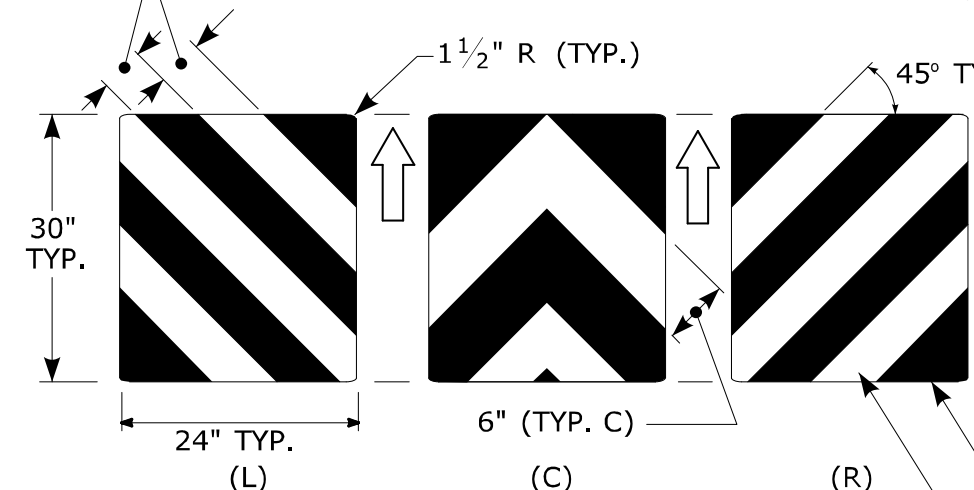


D10-1 SIGN # 51-5303 INCIDENT MANAGEMENT MARKER, ONE DIGIT WITH DECIMAL
D10-2 SIGN # 51-5304 INCIDENT MANAGEMENT MARKER, TWO DIGITS WITH DECIMAL
D10-3 SIGN # 51-5305 INCIDENT MANAGEMENT MARKER, THREE DIGITS WITH DECIMAL

D10-4 SIGN # 51-5307 MILE MARKER, VARIABLE CARDINAL DIRECTION, VARIABLE SHIELD, VARIABLE NUMERALS

INCIDENT MANAGEMENT AND MILE POST MARKER ASSEMBLY TO BE PAID FOR UNDER SECTION 12.08 SIGN FACE SHEET ALUMINUM

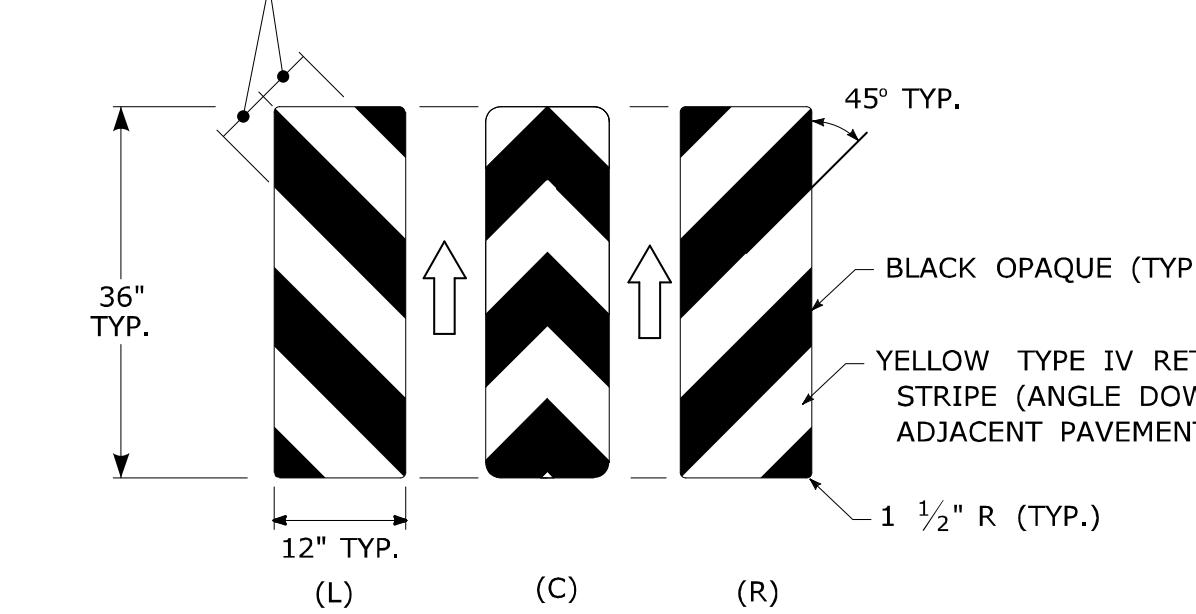
ATTENUATOR REFLECTOR SIGN #50-5032



THIS SHEETING TO BE INSTALLED ON THE NOSE OF THE IMPACT ATTENUATOR WITH ADHESIVE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. THE SHEETING SHALL COVER THE NOSE OF THE IMPACT ATTENUATOR. ON A CURVED NOSE, THE WIDTH OF THE SHEETING SHALL EXTEND 1" BEYOND THE POINT OF CURVATURE ON EACH SIDE OF THE NOSE. THE HEIGHT AND WIDTH OF THE SHEETING VARIES DEPENDING ON THE SIZE OF THE NOSE OF THE IMPACT ATTENUATOR.

ATTENUATOR REFLECTOR TO BE PAID FOR UNDER SECTION 18.0 IMPACT ATTENUATOR

TYPE 3 OBJECT MARKERS SIGN #51-5023



SIGN #51-5023 MARKER MOUNTED ON 3lb. METAL SIGN POST. BOTTOM OF SIGN #51-5023 TO BE 4' ABOVE ADJACENT EDGE OF PAVEMENT. FINAL LOCATIONS OF SIGN #51-5023 MARKERS WILL BE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

TYPE 3 OBJECT MARKER TO BE PAID FOR UNDER SECTION 12.08 SIGN FACE SHEET ALUMINUM

REV.	DATE	REVISION DESCRIPTION
3	8-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
2	2-2011	MINOR REVISIONS.
1	1-2010	INCLUDED DETAILS IN D10-1, D10-2, D10-3 DELINEATORS.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

NOT TO SCALE



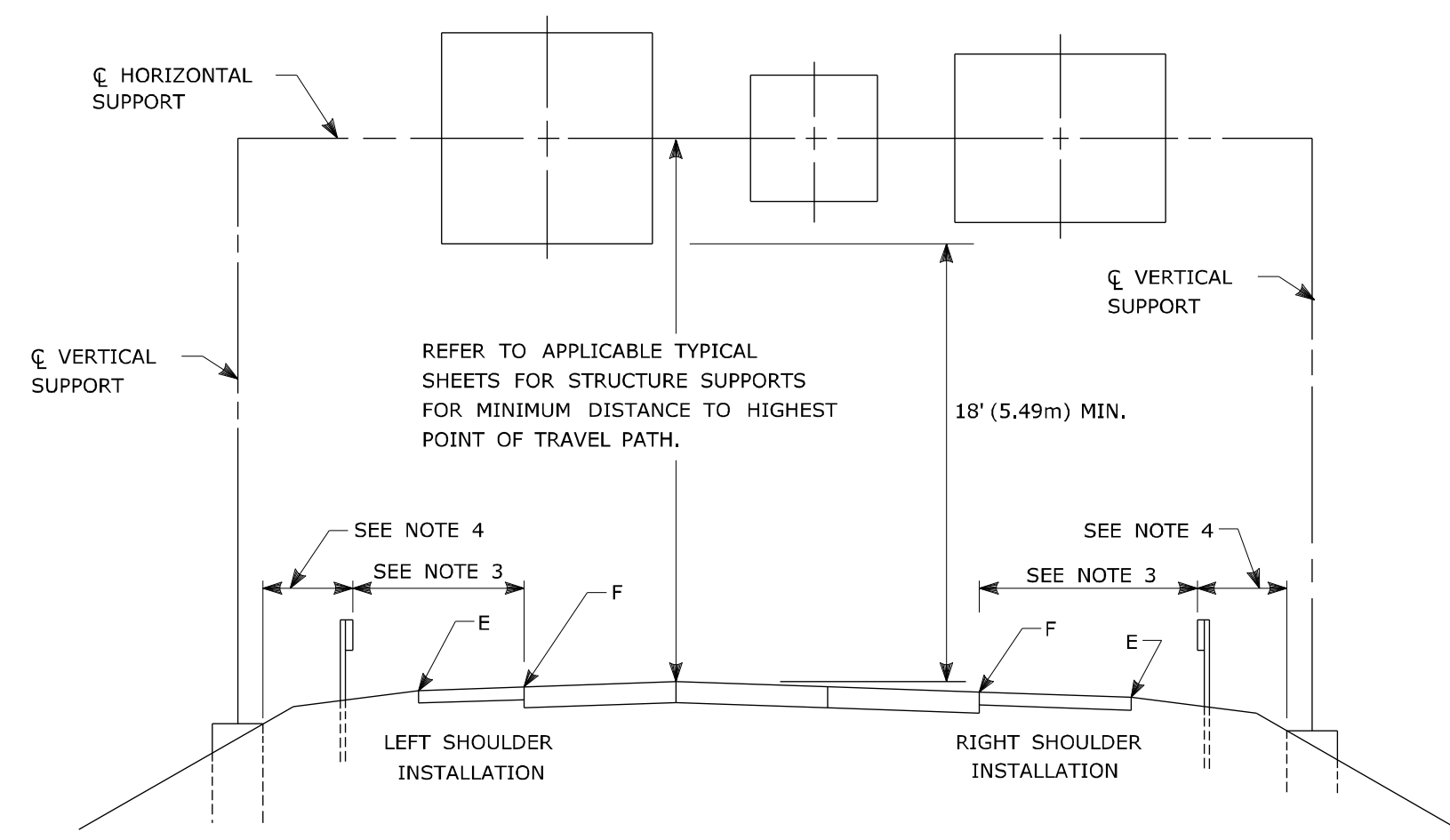
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SUBMITTED BY: Mark F. Makuch, P.E. 2015.08.27 07:27:53-04'00'
APPROVED BY: Charles S. Harlow, P.E. 2015.08.28 11:40:00-04'00'

CTDOT STANDARD SHEET OFFICE OF ENGINEERING

DELINEATION, DELINEATORS AND OBJECT MARKER DETAILS

STANDARD SHEET NO.: TR-1205_01



GUIDE RAIL PLACEMENT FOR SIGN SUPPORTS

NOTES:

- 1) FOR PLACEMENT OF CANTILEVER SIGN SUPPORT USE APPLICABLE PORTION OF ABOVE DETAIL.
- 2) BARRIER SYSTEM IS REQUIRED FOR BOTH SIDES OF MEDIAN SUPPORTS IN NARROW MEDIANS.
- 3) AT LOCATIONS WHERE IMPACT PROTECTION IS NOT REQUIRED FOR ROADSIDE ELEMENTS, FACE OF GUIDE RAIL SHALL BE PLACED 30' (9.1m) FROM EDGE OF TRAVELWAY.
- 4) OFFSETS OF FOUNDATIONS FROM BARRIER SYSTEMS SHALL BE AS SHOWN ELSEWHERE ON THE CONTRACT PLANS.
- 5) ALL SIGNS ARE TO BE HORIZONTAL, REGARDLESS OF CAMBER IN SUPPORT.

FOR MAXIMUM EFFECTIVENESS AND TO ELIMINATE OR MINIMIZE GLARE, POSITION SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS AS FOLLOWS:

ON A TANGENT SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 93° WITH THE TRAFFIC LANE WHICH THE SIGN SERVES:

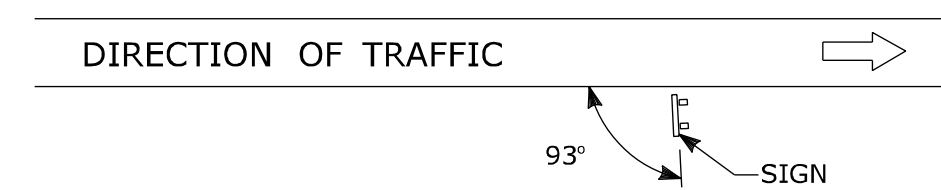


DIAGRAM "A"

ON A HORIZONTAL CURVE SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH A STRAIGHT LINE BETWEEN THE SIGN AND THE POINT AT WHICH THE SIGN SHALL BE READ.

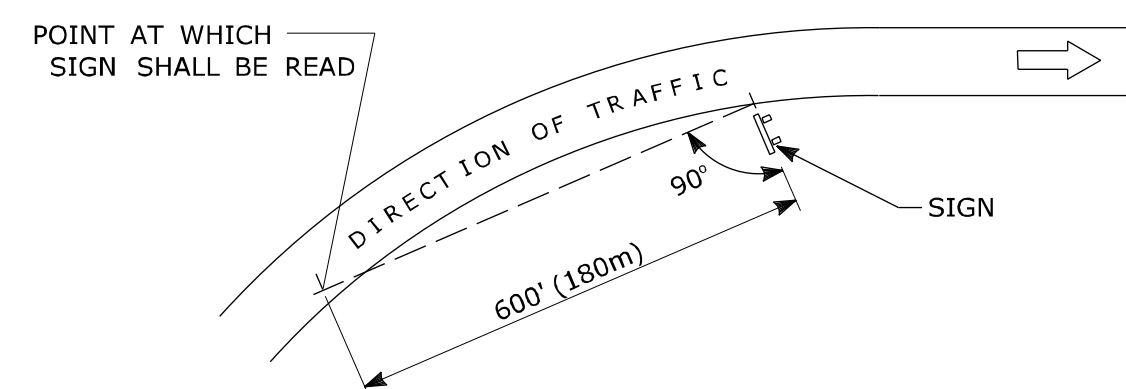
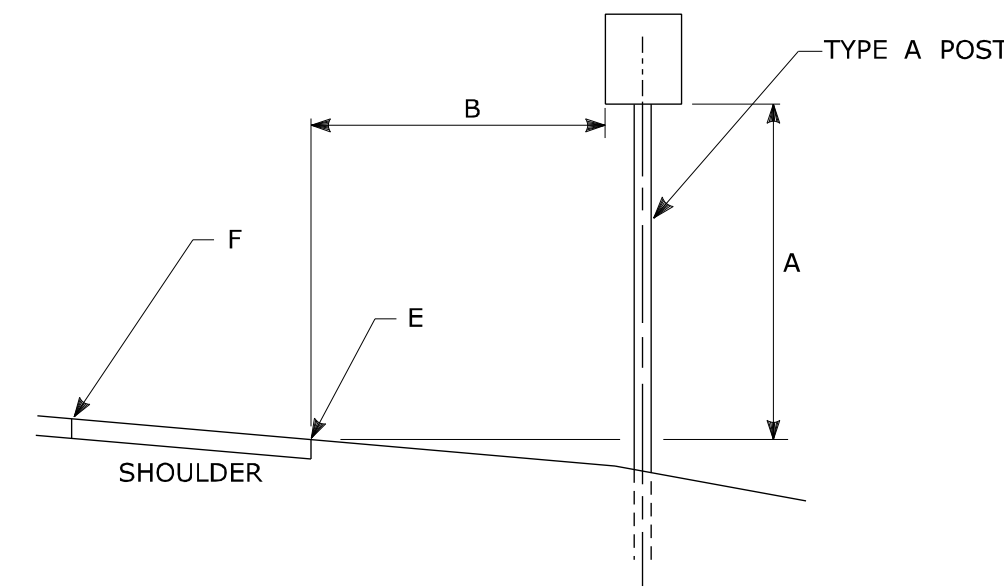
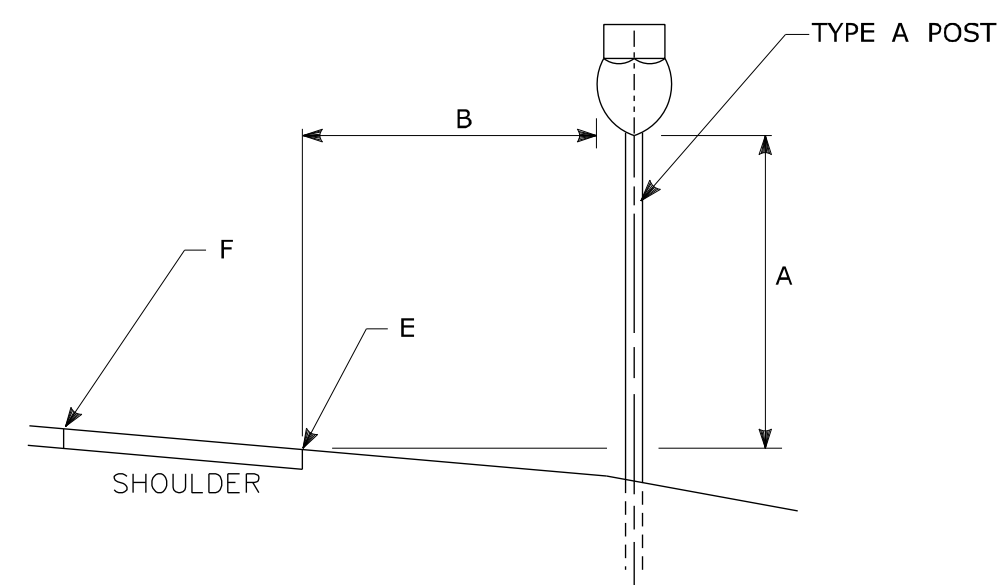


DIAGRAM "B"

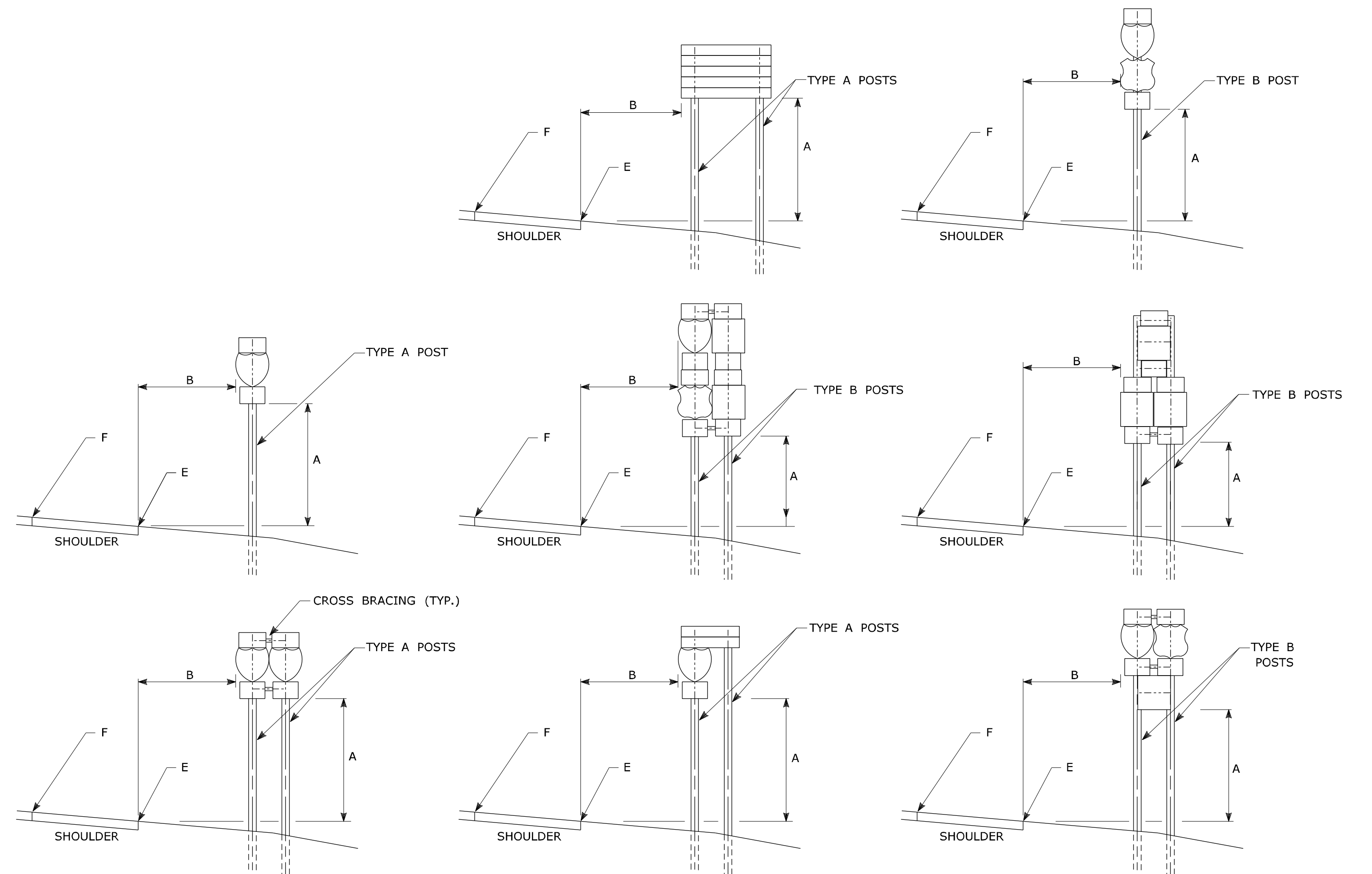
SIGN ORIENTATION DETAILS



TYPICAL REGULATORY & WARNING SIGN PLACEMENT



TYPICAL CONFIRMATORY ROUTE MARKER PLACEMENT



TYPICAL SIGN PLACEMENT AND POST SELECTION

NOTES:

ALL SIGNS AND SHIELDS ON DIRECTIONAL ASSEMBLIES SHALL ABUT VERTICALLY
 2 POST ASSEMBLIES SHALL BE PROVIDED WITH 3" X 1/4" (75 X 6) GALVANIZED STEEL BAR CROSS BRACING.
 REFER TO TRAFFIC TYPICAL SHEET "TYPICAL METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR SIGN POSTS.

DIM."A"	DIM."B" ¹	ASSEMBLY LOCATION
7' (2.1m)	6' (1.8m) ² 12' (3.6m) ²	RURAL DISTRICTS & EXPRESSWAYS
7' (2.1m)	2' (0.6m)	BUSINESS & RESIDENTIAL DISTRICTS WHERE PARKING OR OTHER OBSTRUCTIONS LIMIT VISIBILITY
8'-6" (2.6m)	1' (0.3m)	SIDEWALKS ³

- ¹ OR AS DIRECTED BY THE ENGINEER
 - ² 6' FROM EDGE OF SHOULDER, WHEN SHOULDER IS OVER 6' WIDE
12' FROM EDGE OF TRAVELWAY, WHEN SHOULDER IS LESS THAN 6' WIDE.
 - ³ A CLEAR PATH OF NOT LESS THAN 3 FT (0.9m) SHALL BE PROVIDED IN SIDEWALK AREAS.
- "E" DENOTES EDGE OF SHOULDER OR FACE OF CURB
 "F" DENOTES EDGE OF TRAVELWAY

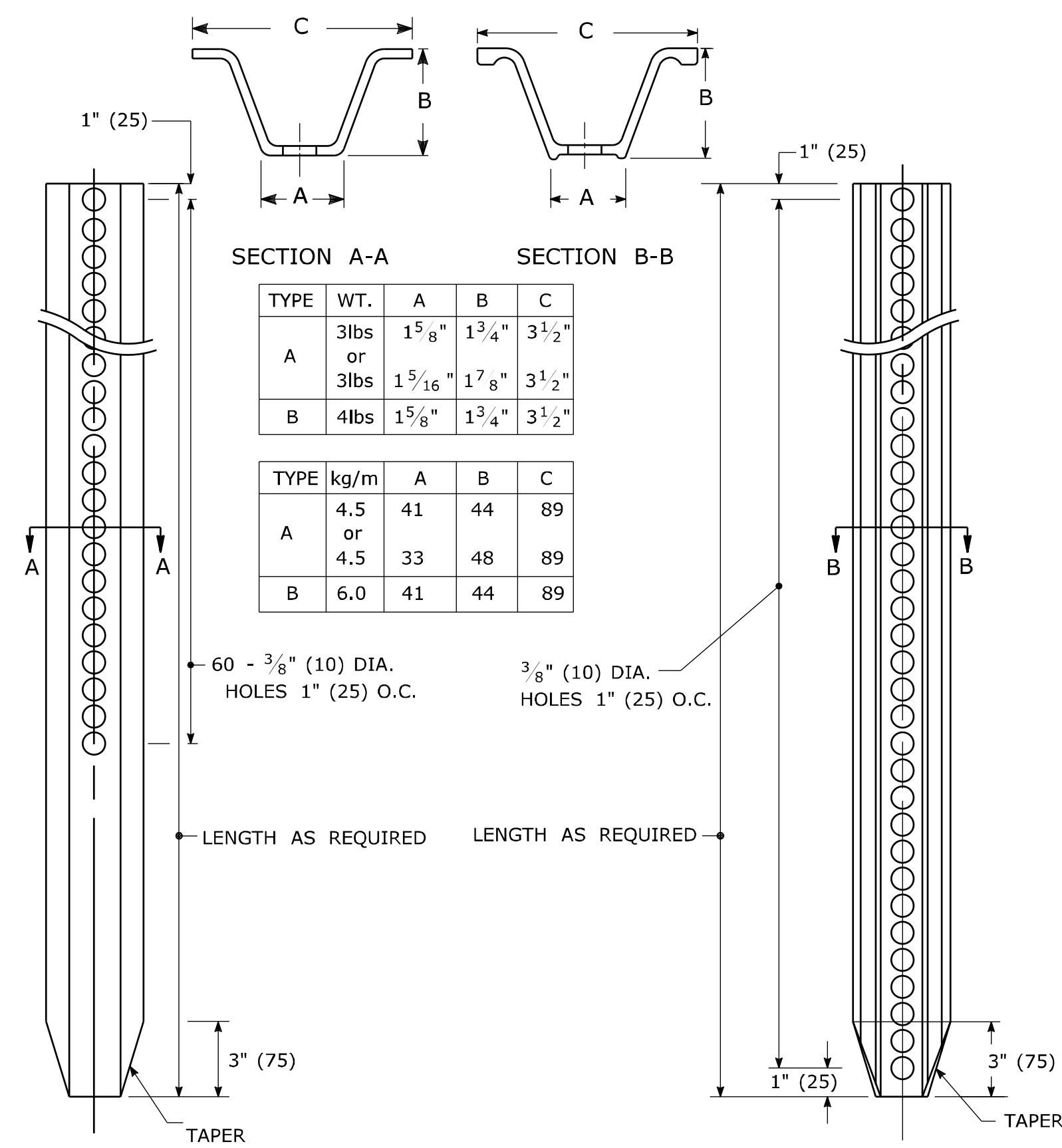
TYPICAL PLACEMENT OF SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS

NOTES:

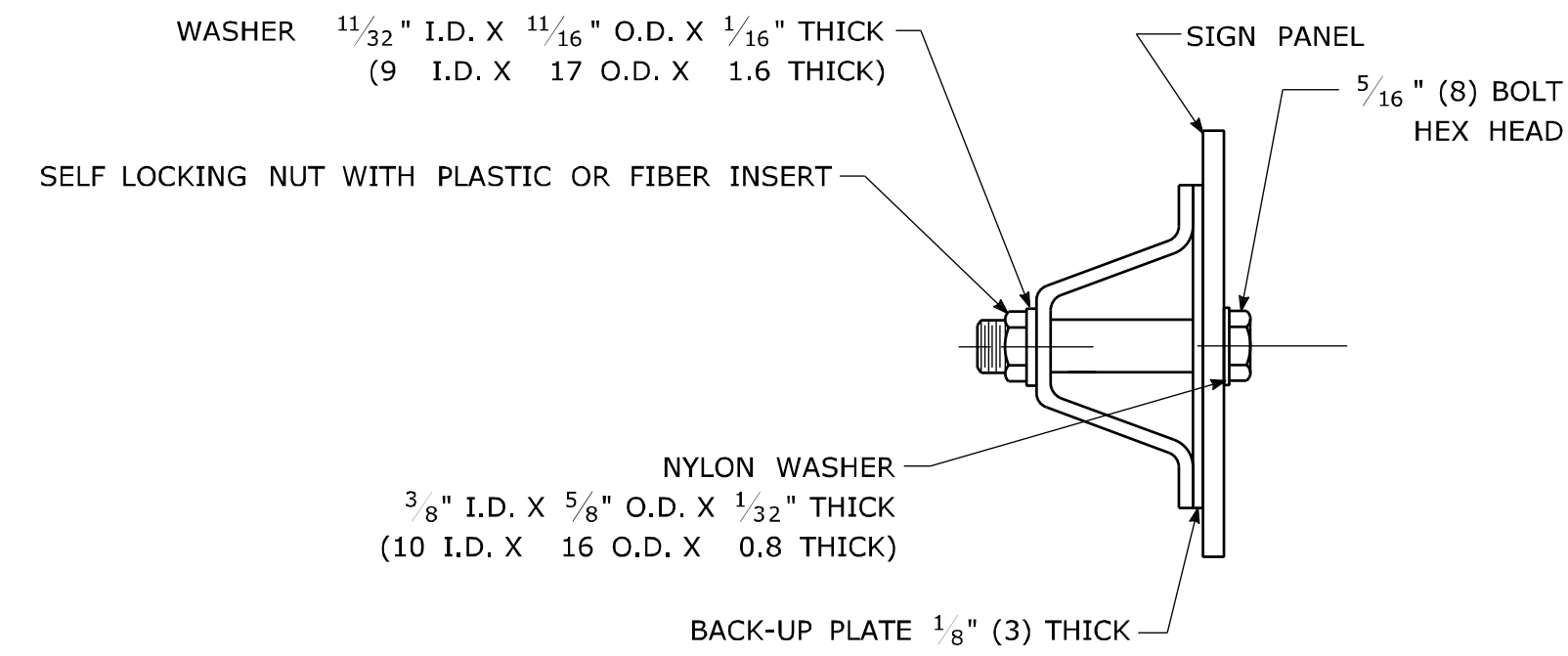
- 1) MIN. VERTICAL CLEARANCE ABOVE SIDEWALKS SHALL BE 8'-6" (2.6m).
- 2) WHERE GUIDE RAIL IS USED, THE OFFSET TO THE NEAR EDGE OF SIGN FACE SHALL BE AS SHOWN ELSEWHERE IN THE CONTRACT PLANS.
- 3) ON INTERSECTING ROADS AT RAMP TERMINI, THE OFFSET TO THE NEAR EDGE OF OF SIGN FACE SHALL BE 6' (1.8m) MIN. FROM POINT "E".
- 4) IF 30'-0" (9.1m) MIN. CANNOT BE MET, PLEASE CONTACT THE ENGINEER.

1 2-2011 MINOR REVISIONS. REV. DATE REVISION DESCRIPTION	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 2/16/2011	DIMENSIONS ARE IN ENGLISH (') & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: - OVER 1" TO NEAREST 5 mm - UNDER 1" TO NEAREST 1 mm. NOT TO SCALE	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1208_01	SUBMITTED BY: Charles S. Harlow NAME/DATE/TIME: 2011.02.22 11:09:17 -05'00' APPROVED BY: John F. Carey NAME/DATE/TIME: 2011.03.02 09:19:01 -05'00'	CTDOT STANDARD SHEET OFFICE OF ENGINEERING	STANDARD SHEET TITLE: SIGN SUPPORT & SIGN PLACEMENT DETAILS, GORE EXIT SIGN	STANDARD SHEET NO.: TR-1208_01
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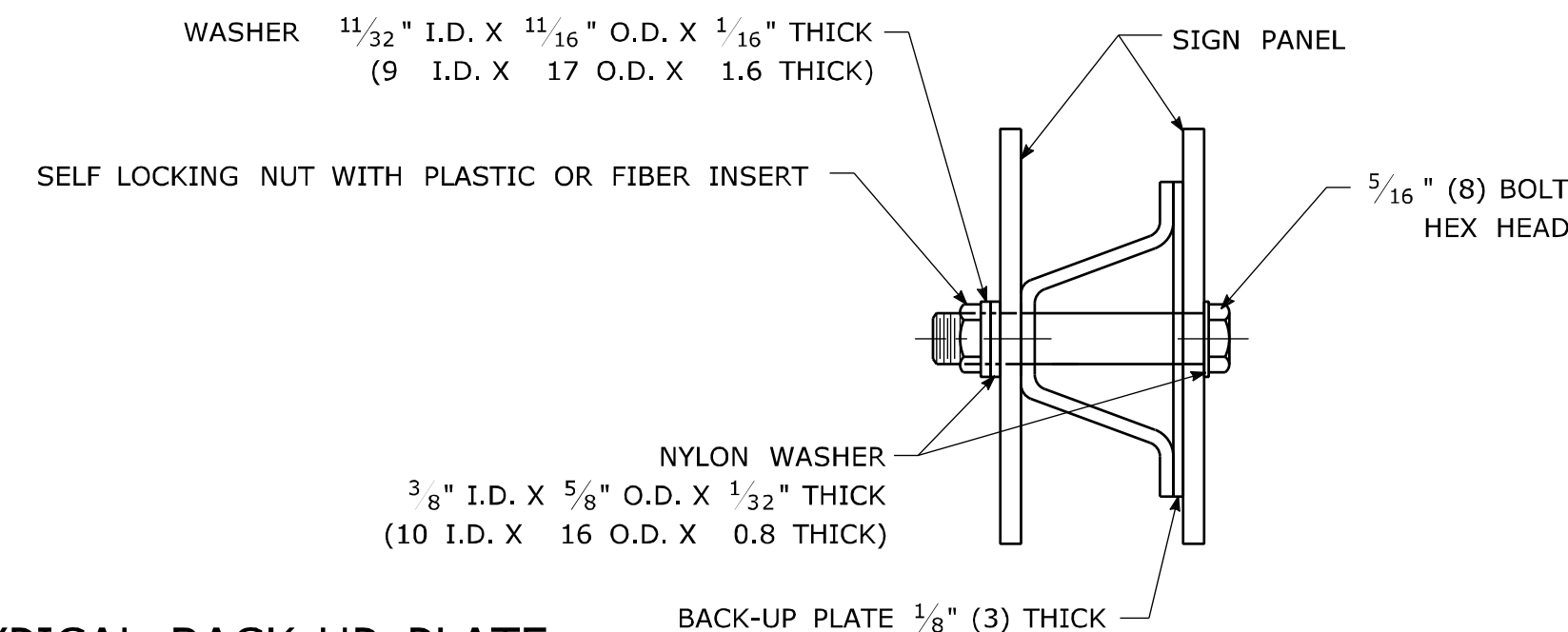
TYPICAL METAL SIGN POSTS



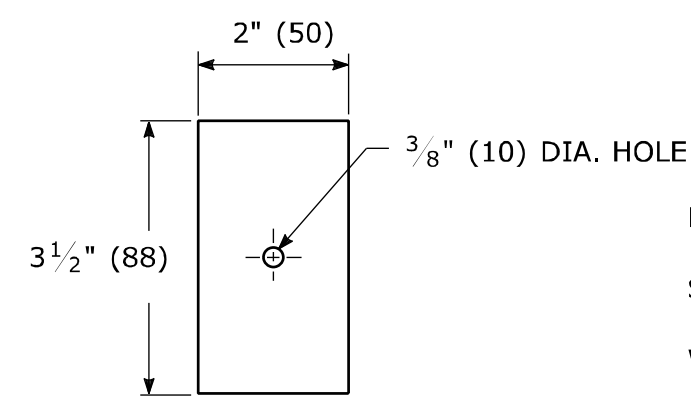
TYPICAL SIGN PANEL ATTACHMENT



TYPICAL BACK TO BACK SIGN PANEL ATTACHMENT



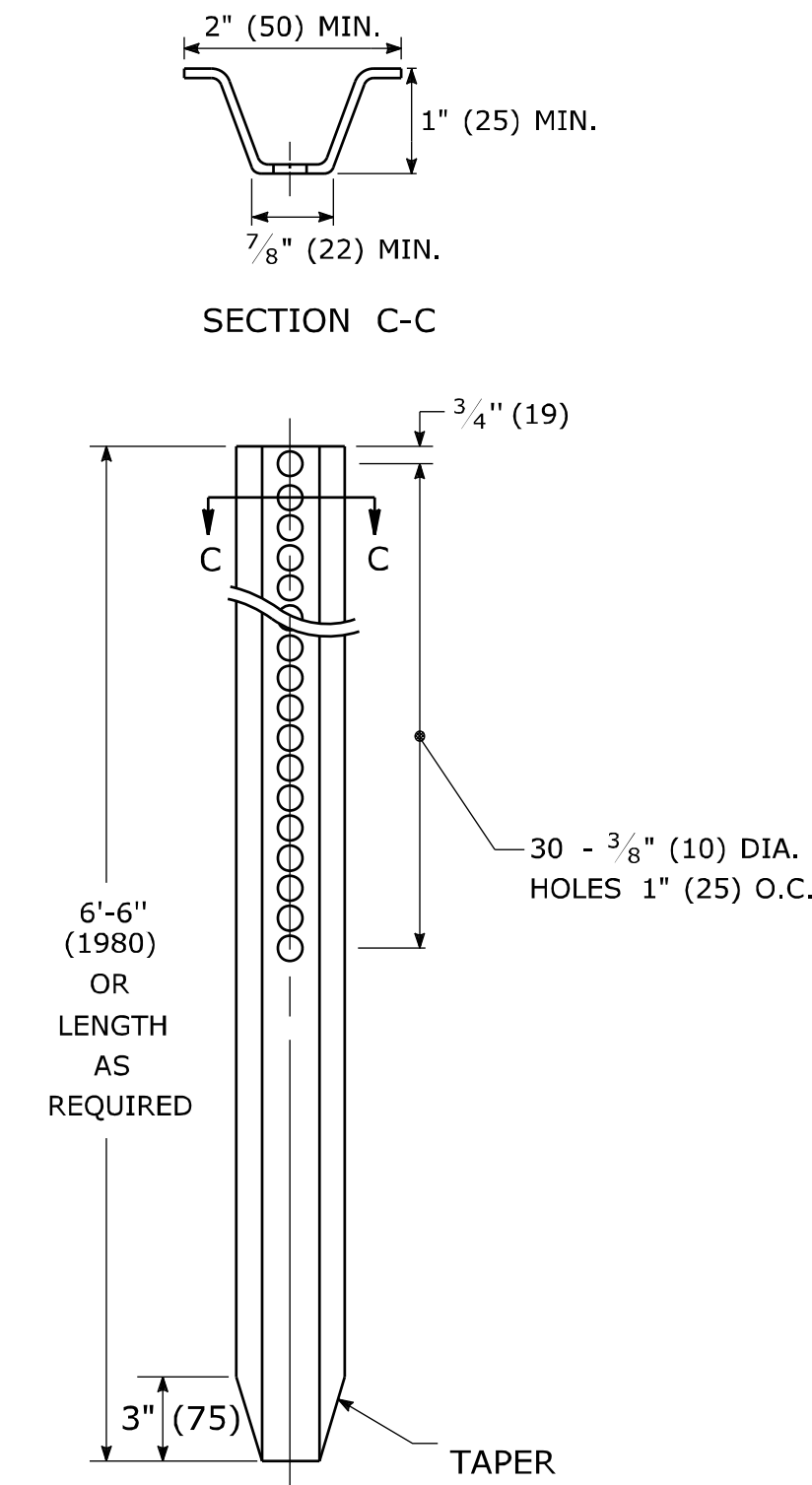
TYPICAL BACK-UP PLATE



BOLTS - STAINLESS STEEL CONFORMING TO ASTM F593, ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).
 SELF LOCKING NUTS - STAINLESS STEEL CONFORMING TO ASTM F594, ALLOY GROUP 1 OR 2 (ALLOY TYPES 304 OR 316).
 WASHERS - STAINLESS STEEL CONFORMING TO ASTM A240, (ALLOY TYPES 304 OR 316).

METAL DELINEATOR POST

WT./FT. = 1.12 LBS. MIN.
(MASS/m = 1.67 kg/m MIN.)

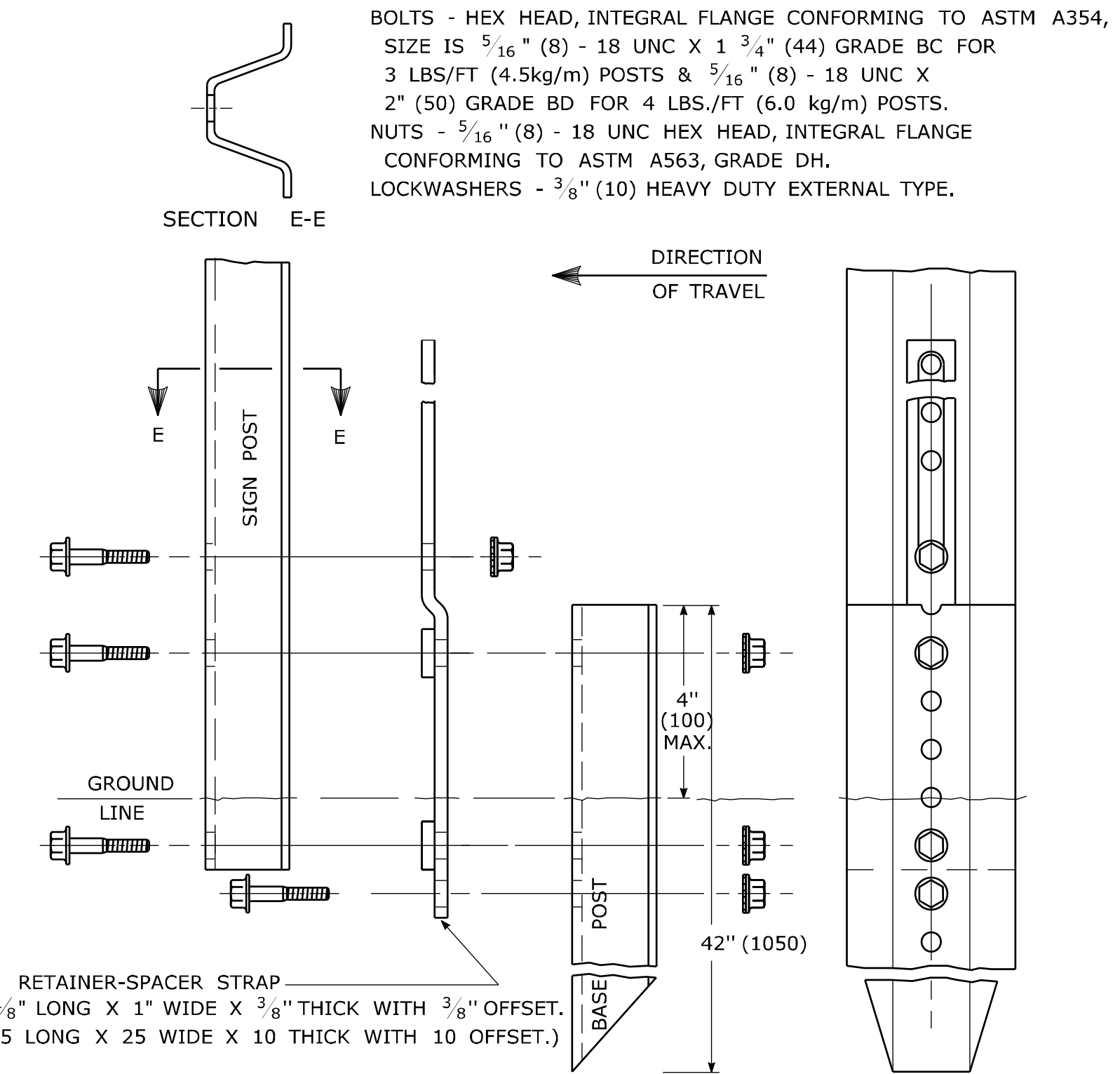


GENERAL NOTES:

- STEEL FOR DELINEATOR POSTS SHALL BE ASTM A36/A36(m) STEEL. STEEL FOR ALL OTHER POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A 499 GRADE 60 AND TO THE CHEMICAL REQUIREMENTS OF ASTM A1 CARBON STEEL TEE RAIL HAVING NOMINAL WEIGHT (MASS) OF 91lbs. (45 kg.) OR GREATER PER LINEAR YARD (METER).
- AFTER FABRICATION, ALL STEEL POSTS, STRAPS AND PLATES SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A123/A123(m).
- WASHERS FOR BREAKAWAY INSTALLATIONS SHALL MEET ASTM F436, TYPE 1.
- ALL BOLTS, NUTS, AND WASHERS FOR BREAKAWAY INSTALLATIONS SHALL BE GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A153/A153(m).
- ALL SIGN POSTS SHALL HAVE BREAKAWAY FEATURES THAT MEET AASHTO REQUIREMENTS CONTAINED IN THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS." THE BREAKAWAY FEATURES SHALL BE STRUCTURALLY ADEQUATE TO CARRY THE SIGNS SHOWN IN THE PLANS AT 60 mph (97 km/h) WIND LOADINGS. INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- TYPE A POSTS - 3 lbs/ft (4.5 kg/m) TYPE B POSTS - 4 lbs/ft (6 kg/m).

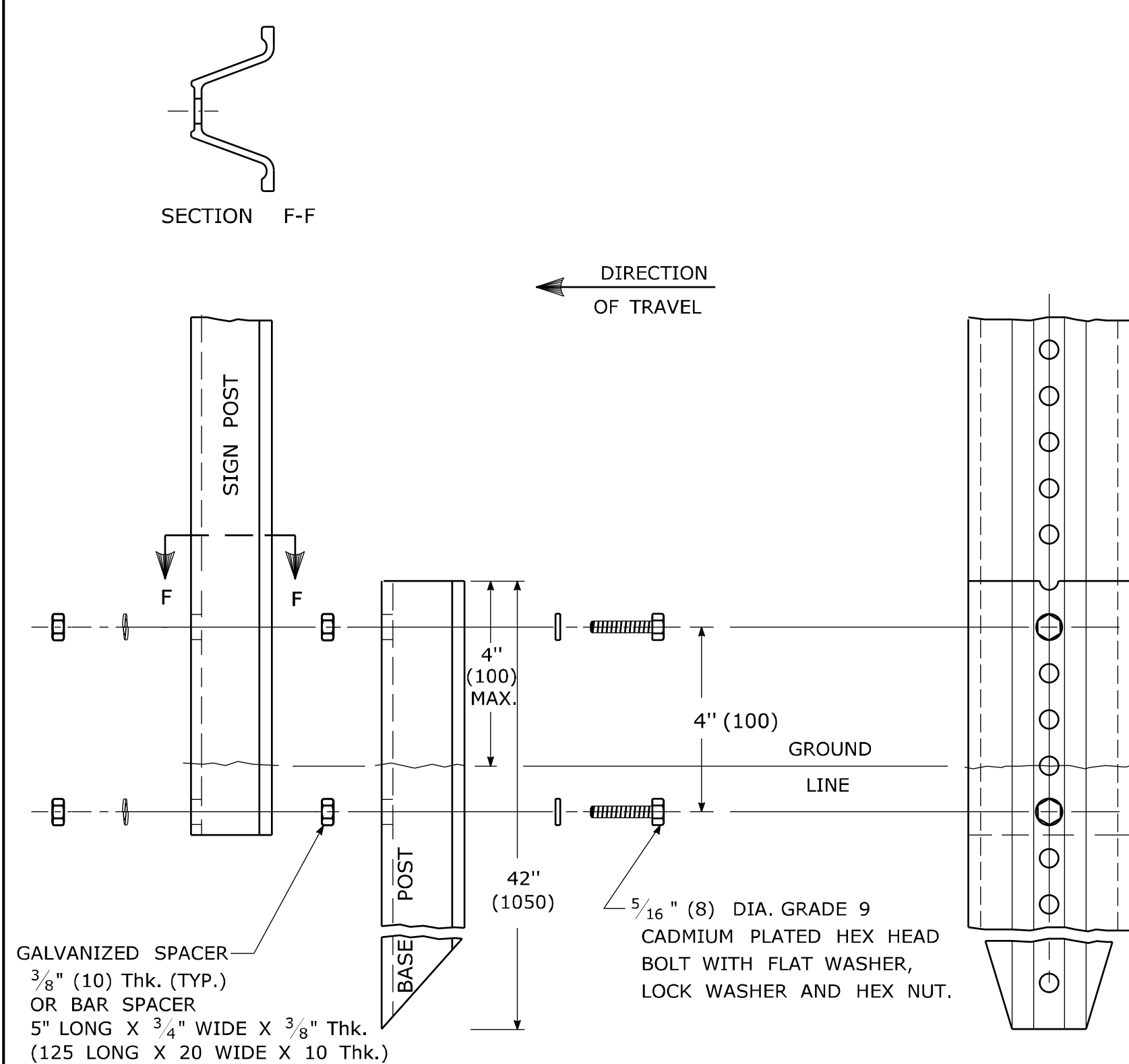
BREAKAWAY TYPE I INSTALLATION

FOR 3 & 4 LB. POSTS
(FOR 4.5 & 6.0 kg/m POSTS)

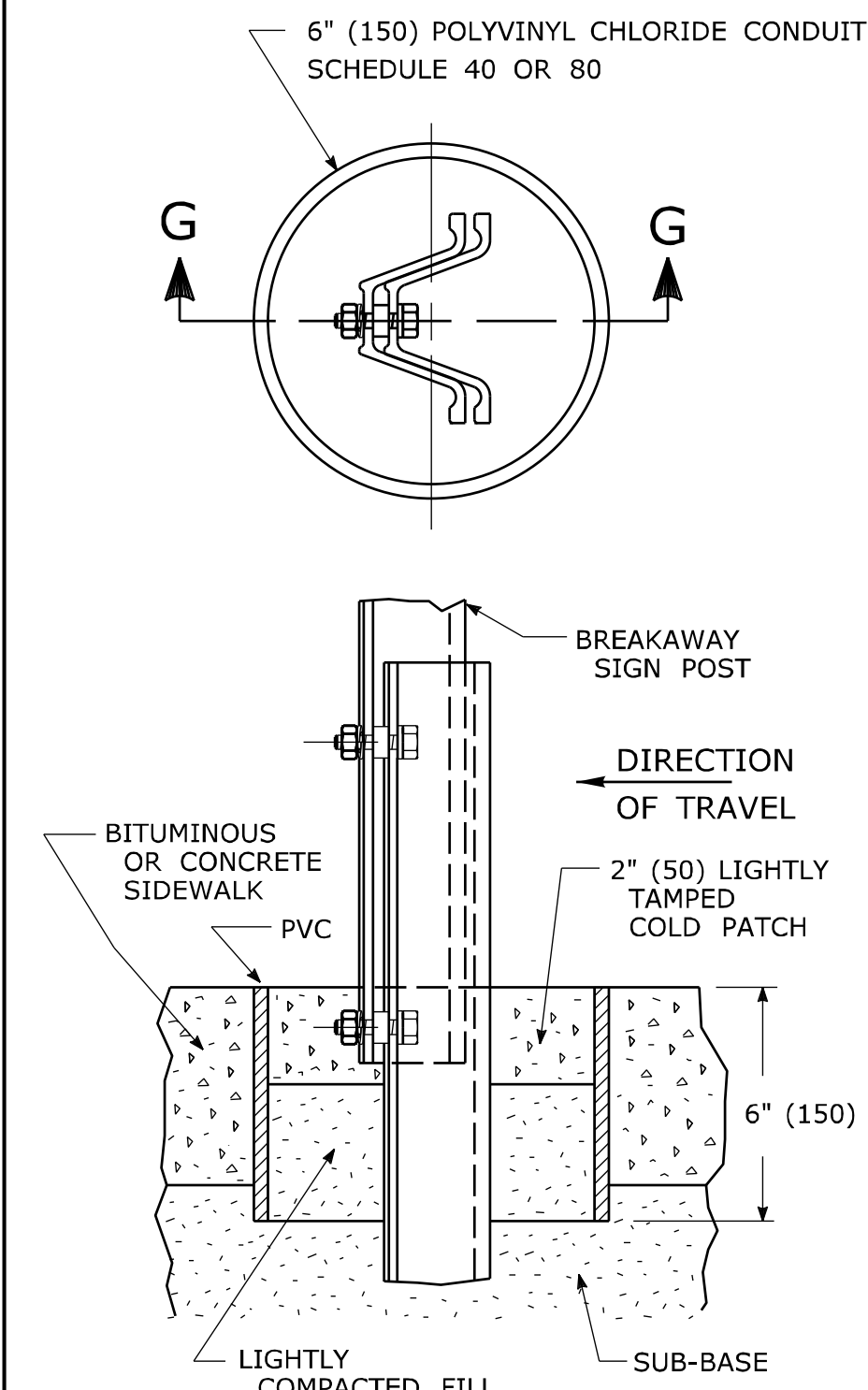


BREAKAWAY TYPE II INSTALLATION

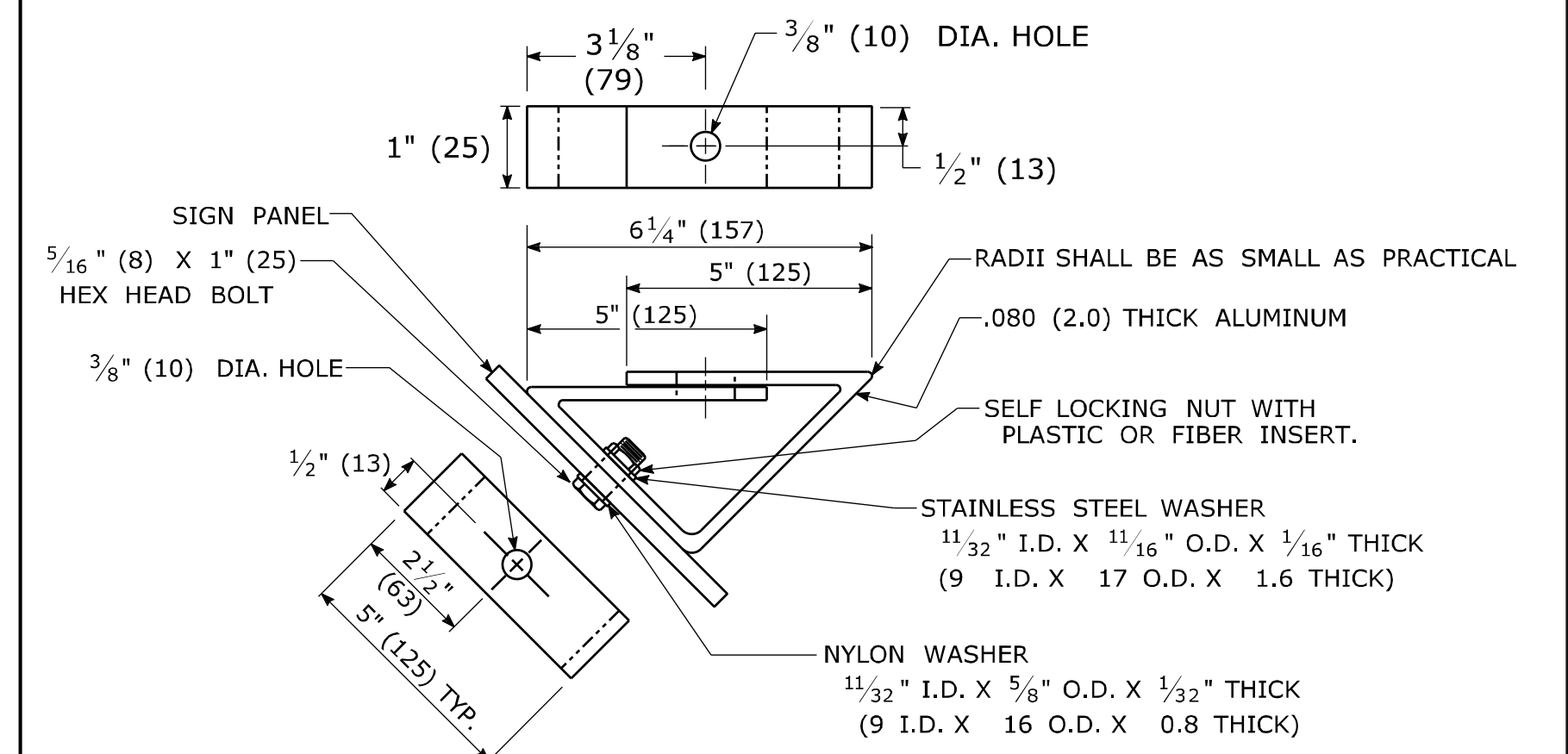
FOR 3 & 4 LB. POSTS
(FOR 4.5 & 6.0 kg/m POSTS)



TYPICAL SLEEVE FOR PAVED AREAS



45° SUBMOUNTING BRACKET



REV.	DATE	MINOR REVISIONS.	REVISION DESCRIPTION
1	2-2011	MINOR REVISIONS.	

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/22/2011

DIMENSIONS ARE IN ENGLISH (") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED: - OVER 1" TO NEAREST 5 mm - UNDER 1" TO NEAREST 1 mm.

NOT TO SCALE

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION

Submitted By: Charles S. Harlow
 Date/Time: 2011.03.22 13:20:01 -04'00'

Approved By: John F. Carey
 Date/Time: 2011.03.24 09:53:08 -04'00'

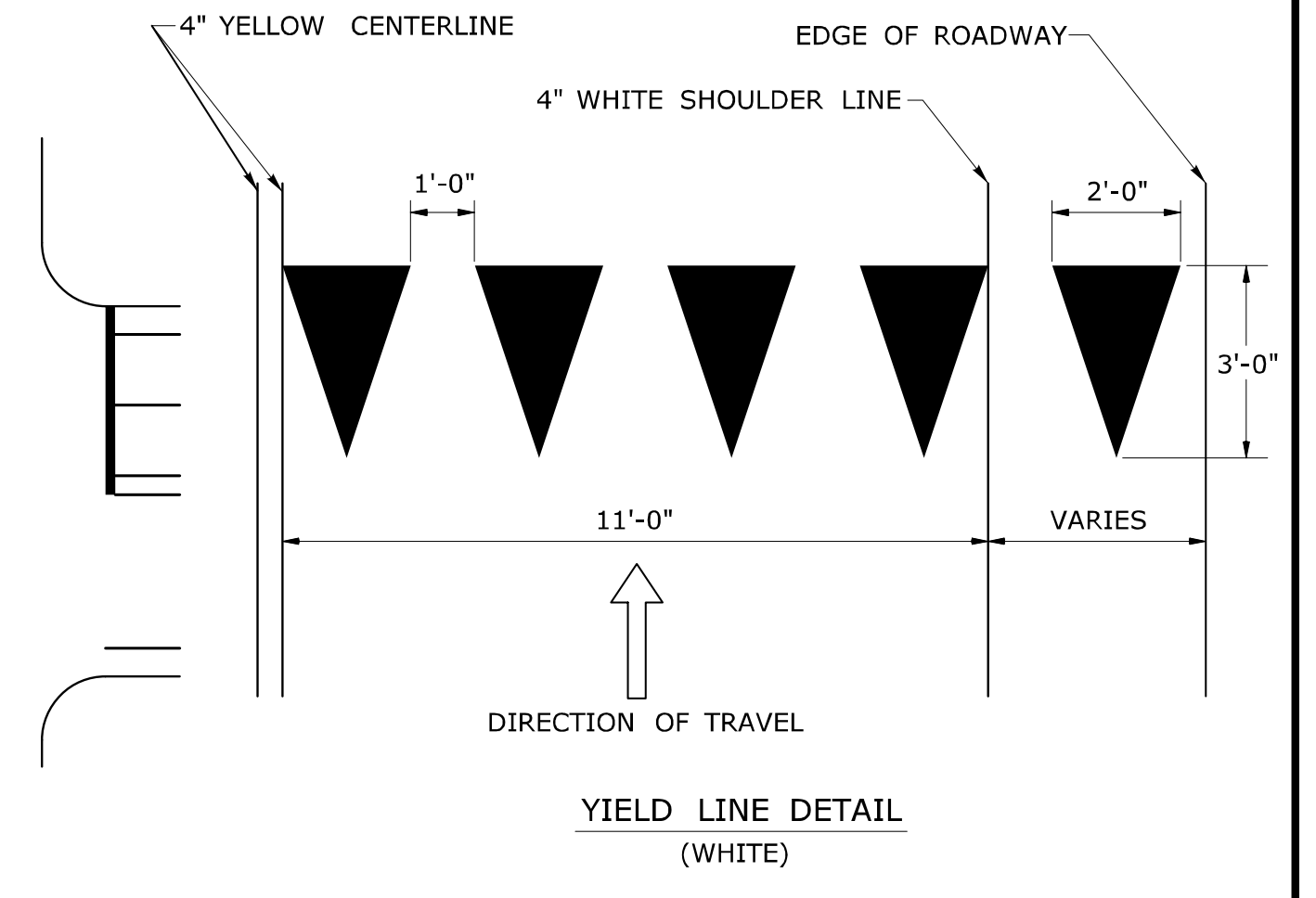
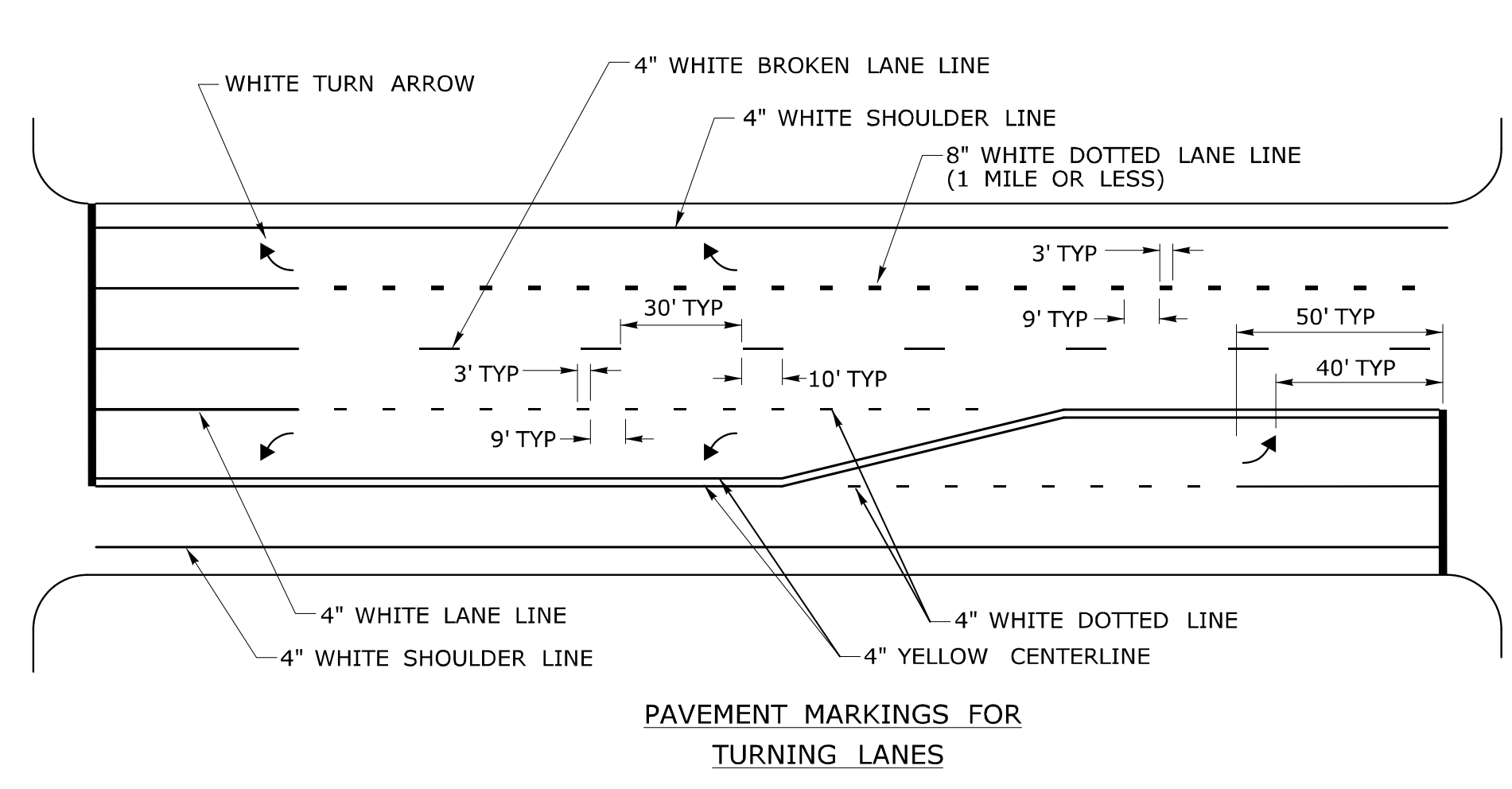
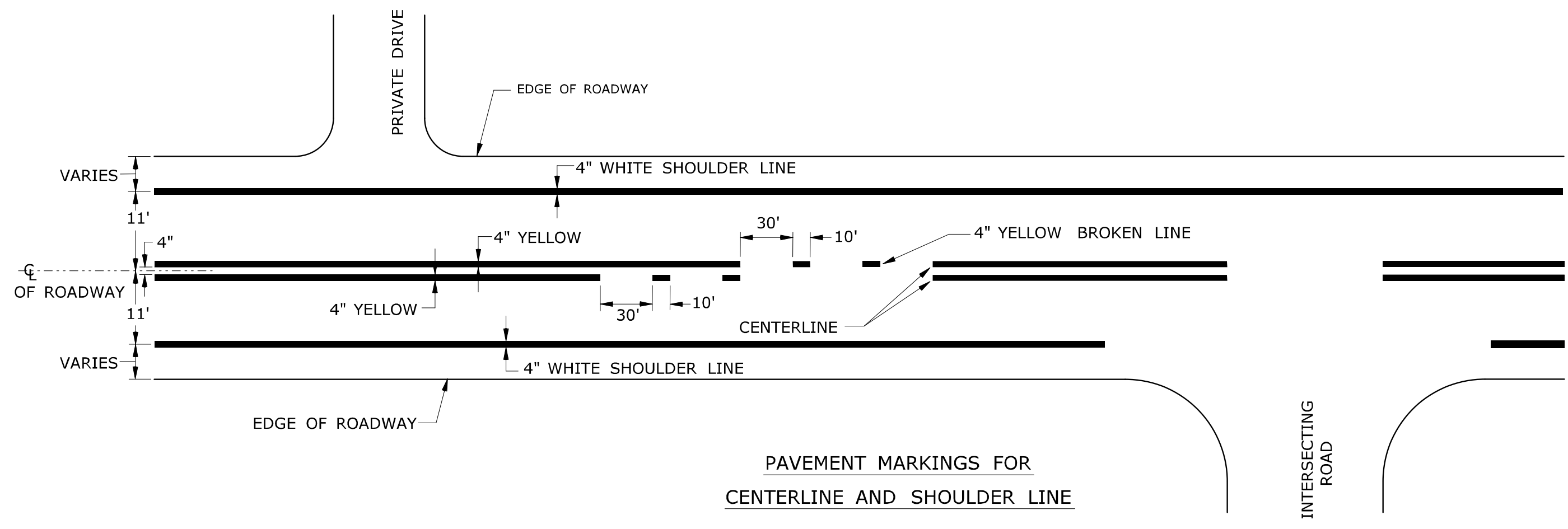
Filename: CTDOT_TRAFFIC_STD.dgn Model: TR-1208_02

CTDOT STANDARD SHEET

OFFICE OF ENGINEERING

STANDARD SHEET TITLE: METAL SIGN POSTS AND SIGN MOUNTING DETAILS

STANDARD SHEET NO.: TR-1208_02



NOTES:

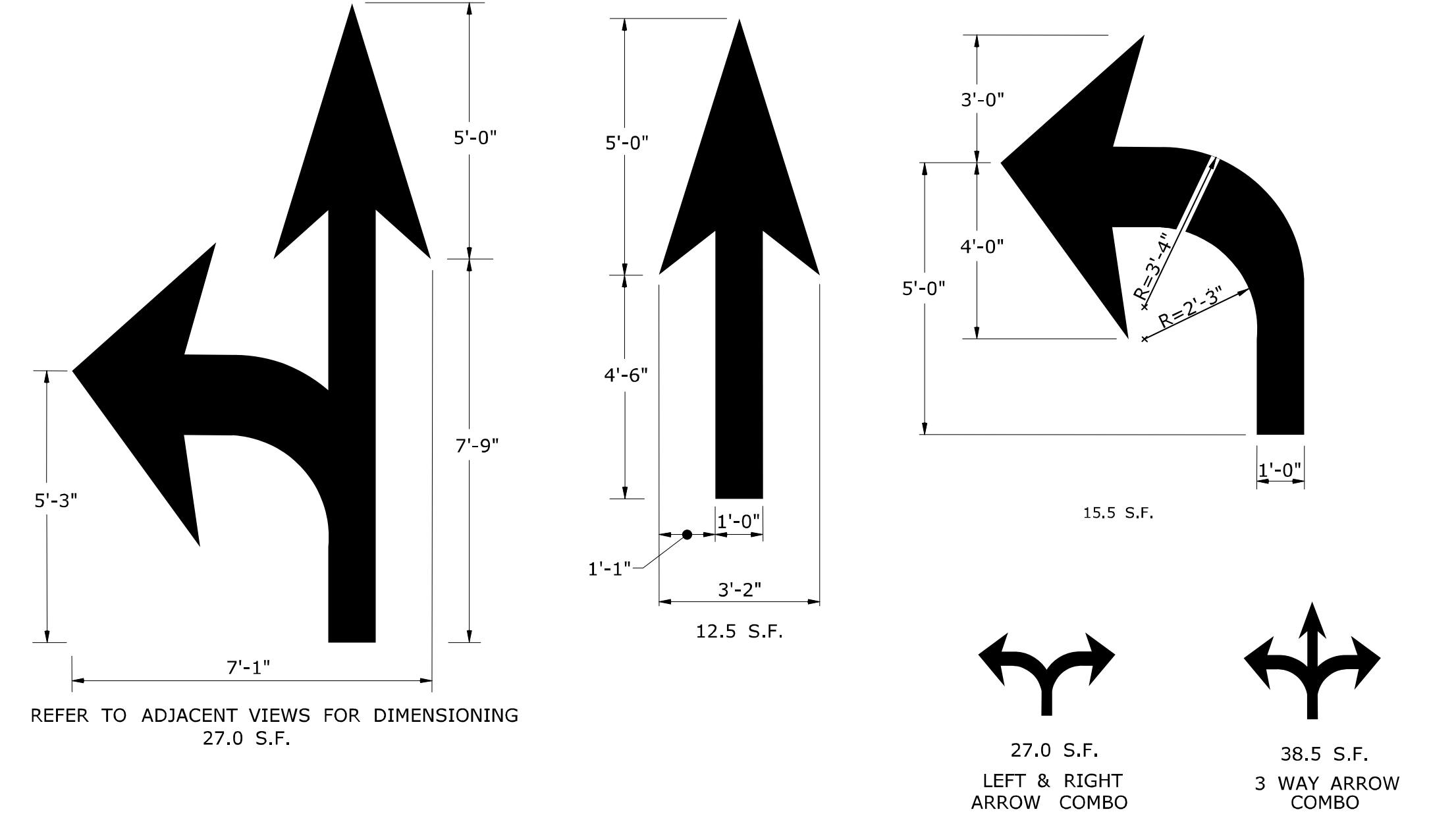
- STOP BARS AND YIELD LINES**
1. STOP BARS AND YIELD LINES SHALL BE WHITE.
 2. STOP BARS SHALL BE 12" MIN. UNLESS OTHERWISE NOTED ON PLANS.
 3. STOP BARS TO BE MARKED A MINIMUM OF 4' IN ADVANCE OF THE NEAREST EDGE OF CROSSWALK AND SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY.
 4. IN THE ABSENCE OF A MARKED CROSSWALK THE STOP BAR SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY, AT THE DESIRED STOPPING POINT AT LEAST 5' AND NO MORE THAN 30' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.
 5. THE STOP BAR SHOULD BE PLACED IN LINE WITH THE STOP SIGN. HOWEVER, IF THE STOP SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO STOP, THE STOP BAR SHOULD BE PLACED AT THE STOPPING POINT.
 6. FOR STOP BARS AT RAMP SEE DETAILS "O" & "P" AND NOTES ON TRAFFIC STANDARD SHEET TR-1210.02 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS".
 7. YIELD LINES SHOULD BE INSTALLED FROM THE CENTERLINE TO THE CURB LINE/EDGE OF ROAD AND SHOULD BE PLACED 90° TO THE CENTERLINE OF THE ROADWAY.
 8. FOR YIELD LINE INSTALLATIONS, ONLY FULL TRIANGLES ARE TO BE INSTALLED.
 9. AT MID-BLOCK CROSSWALKS ONLY, YIELD LINES SHOULD BE INSTALLED 20 TO 50 FEET IN ADVANCE OF THE NEAREST CROSSWALK LINE, OR AS DIRECTED BY THE ENGINEER.
 10. THE YIELD LINE SHOULD BE PLACED IN LINE WITH A YIELD SIGN. HOWEVER, IF THE YIELD SIGN CANNOT BE LOCATED EXACTLY WHERE VEHICLES ARE EXPECTED TO YIELD, THE YIELD LINE SHOULD BE PLACED AT THE YIELDING POINT.

CROSSWALKS

1. CROSSWALK MARKINGS SHALL BE WHITE.
2. AT LOCATIONS WHERE THE CROSSWALK IS SKEWED, BARS TO BE PARALLEL TO C AND ENDS OF BARS TO BE PARALLEL. THE LENGTH OF THE BARS WILL VARY DEPENDING ON THE ANGLE OF SKEW.
3. BARS SHOULD BE NO CLOSER THAN 1' FROM CURB LINE/EDGE OF ROAD.
4. ONLY FULL LENGTH BARS ARE TO BE INSTALLED.
5. DECORATIVE CROSSWALKS SHALL BE BANDED FROM CURB TO CURB WITH A MINIMUM 12" WIDE WHITE TRANSVERSE LINE ALONG EACH EDGE.
6. 24" WIDE SPACE TO BE CENTERED ON YELLOW CENTERLINE.

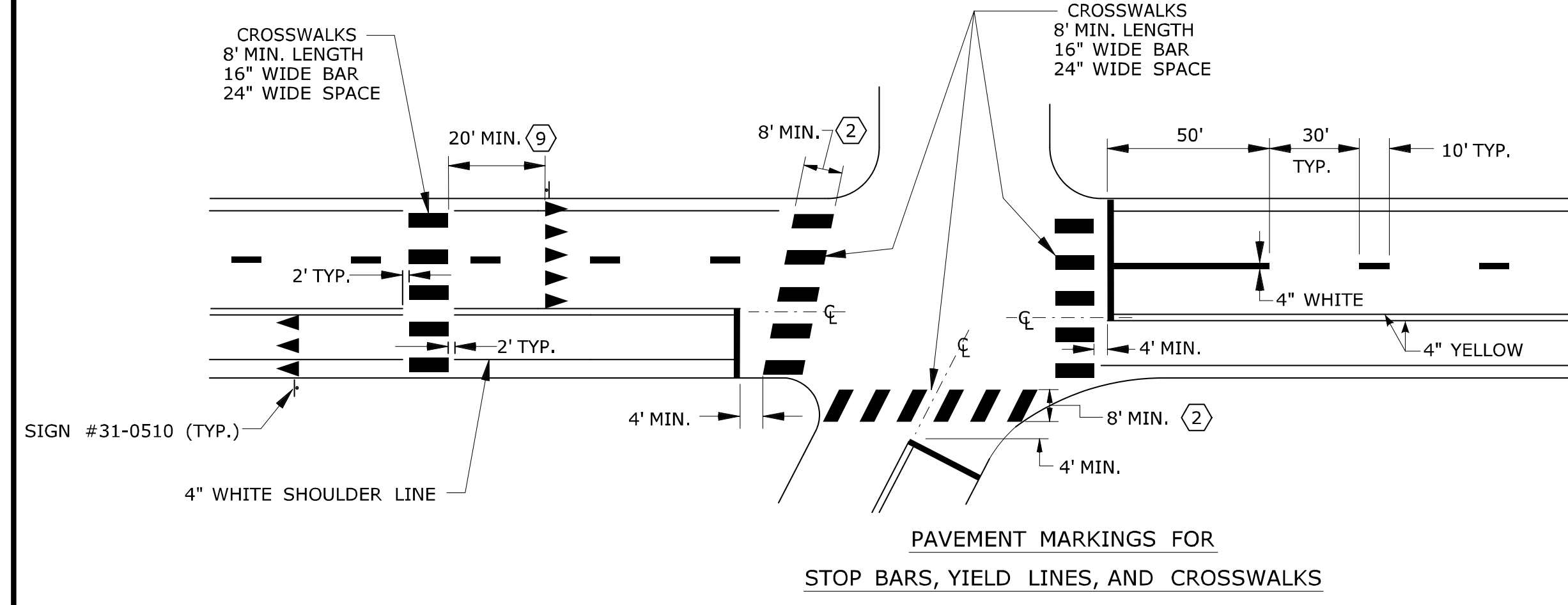
RAILROAD GRADE CROSSINGS

1. RAILROAD MARKINGS SHALL BE WHITE.
2. ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS THE APPROACH LANES AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

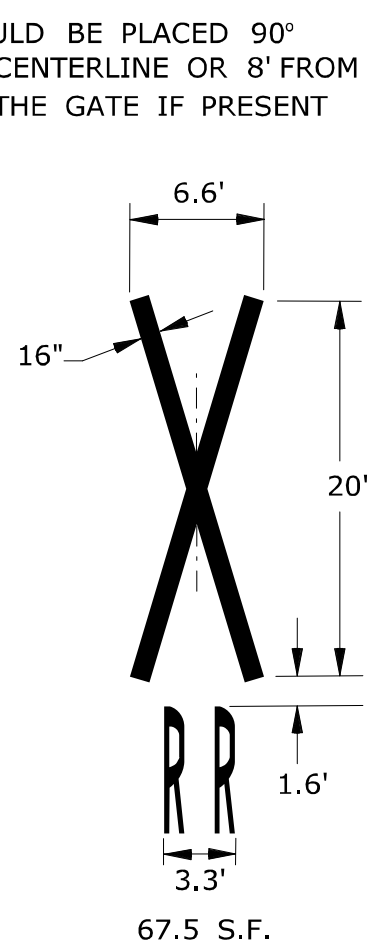
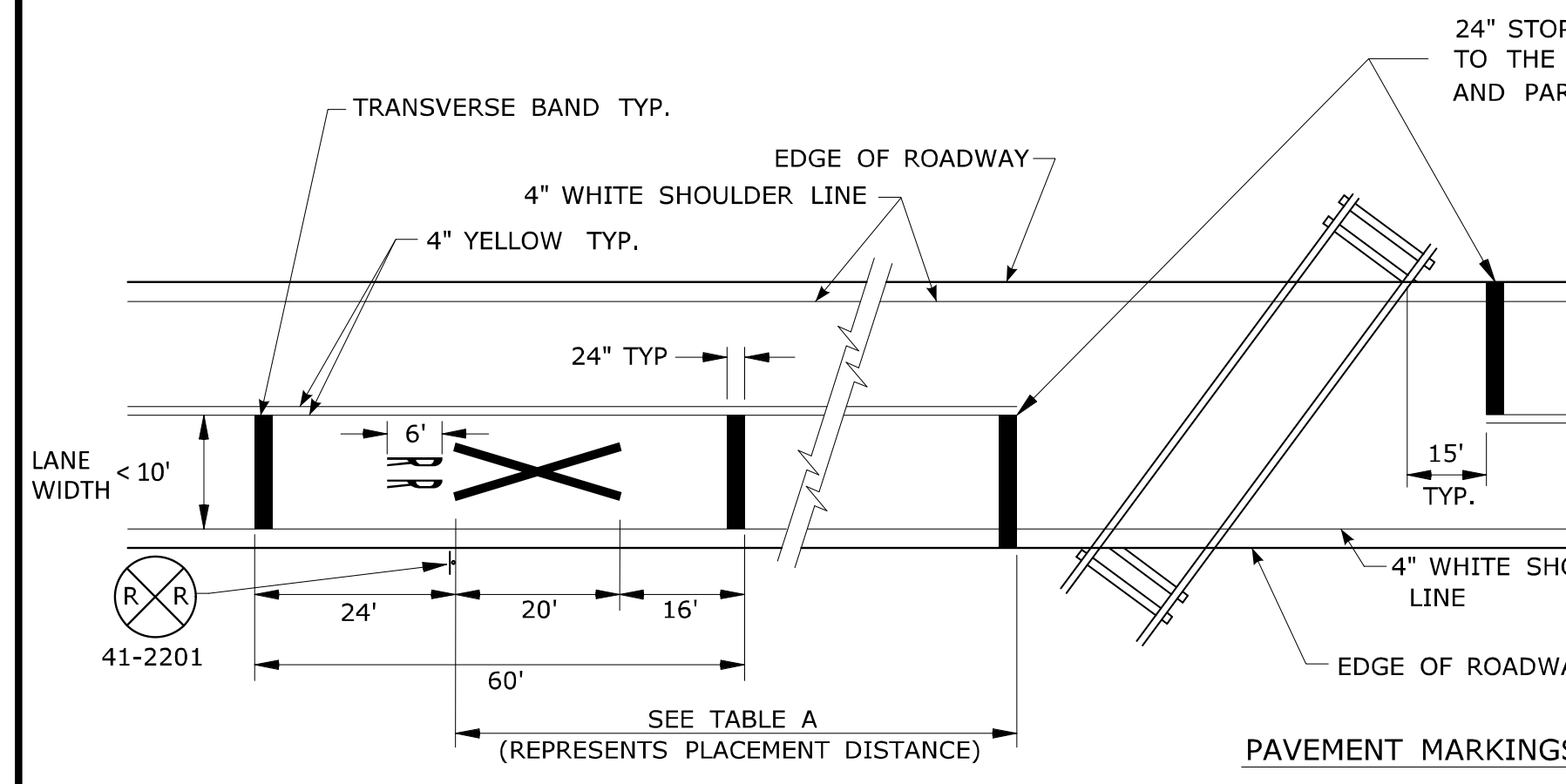
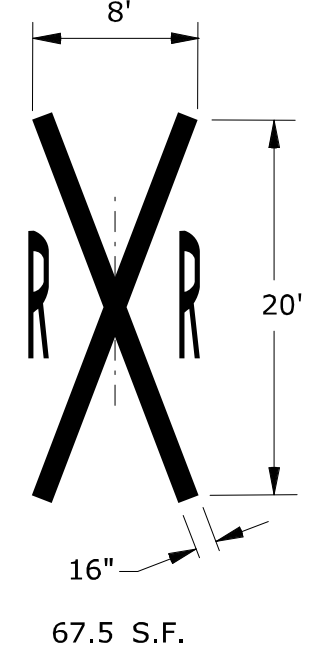
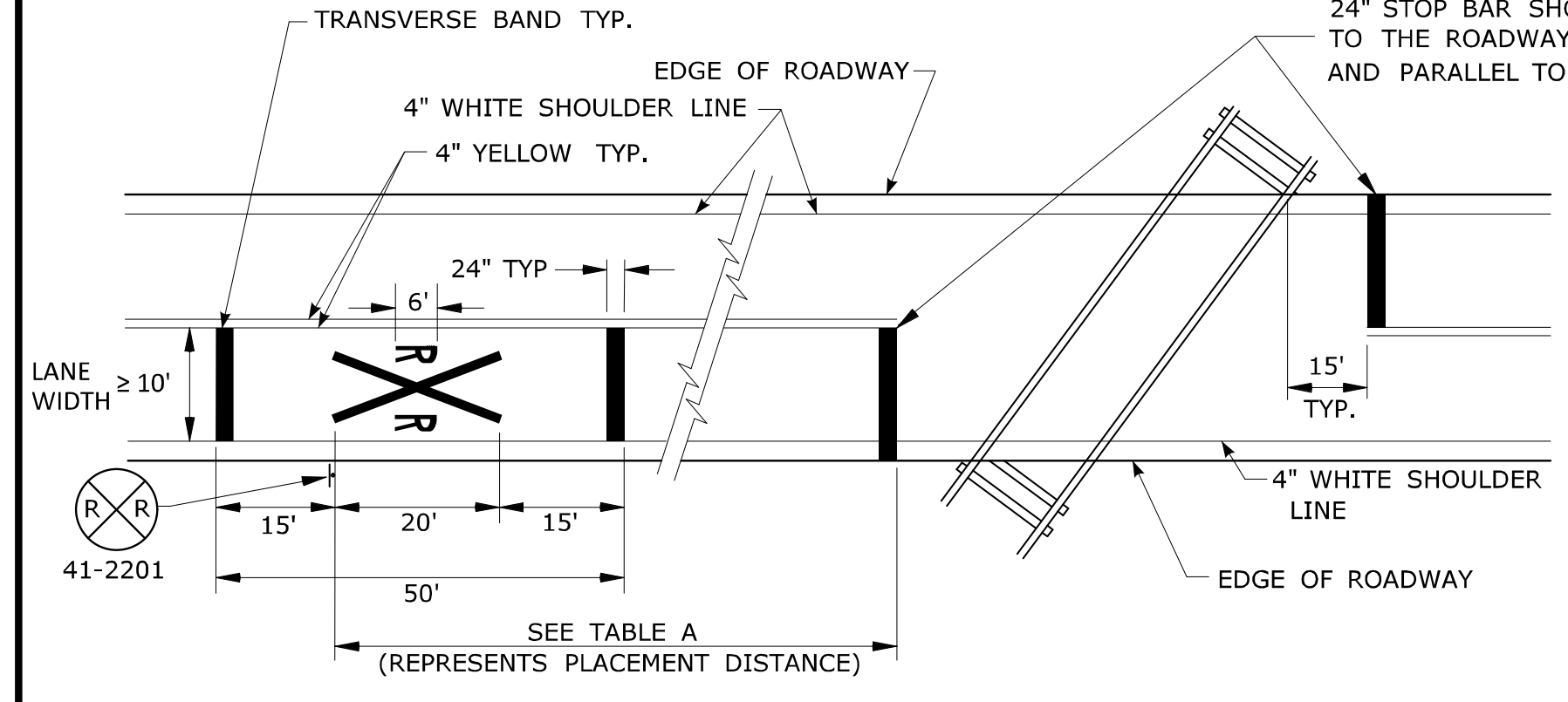


PAVEMENT ARROW DETAILS (WHITE)

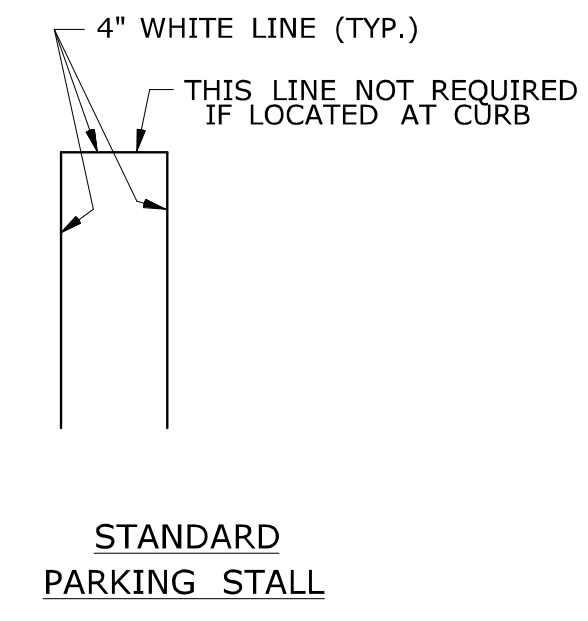
ARROWS SHALL BE CENTERED IN TRAVEL LANE



PAVEMENT MARKINGS FOR STOP BARS, YIELD LINES, AND CROSSWALKS



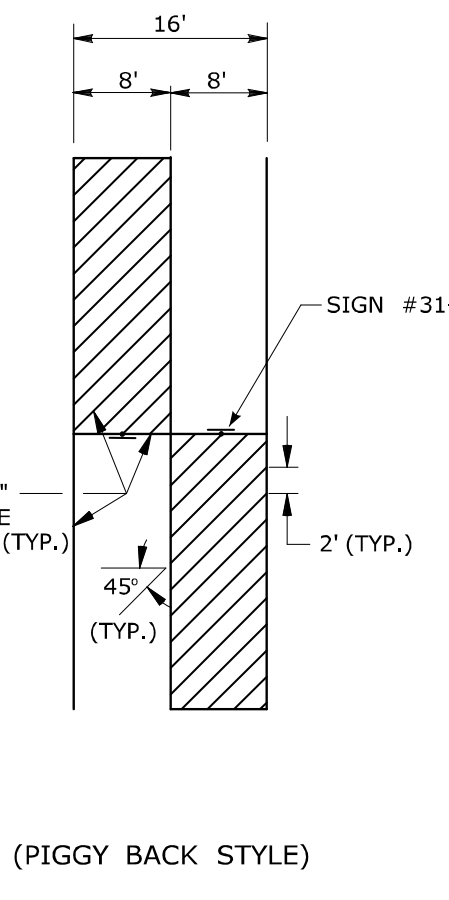
POSTED OR 85 PERCENTILE SPEED M.P.H.	MINIMUM DISTANCE FT.
20	100
25	100
30	100
35	100
40	125
45	175
50	250
55	325
60	400
65	475



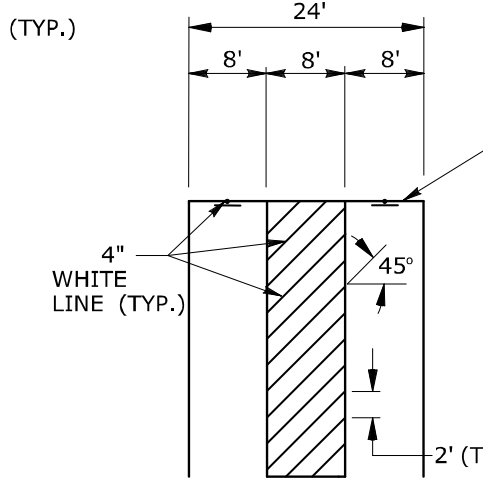
STANDARD PARKING STALL

NOTES:

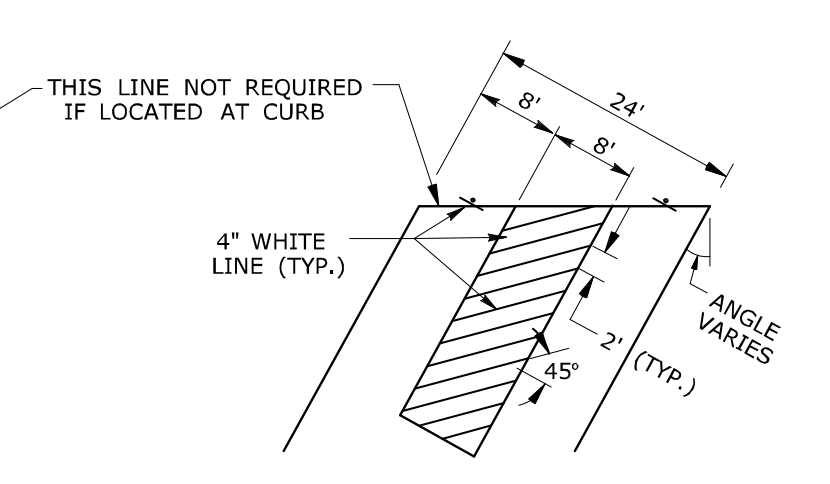
- PAVEMENT MARKING**
1. FOR PAVEMENT MARKINGS ON A CLIMBING LANE SEE DETAIL "L" ON TRAFFIC STANDARD SHEET TR-1210.02 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS".
 2. AREA OF PAVEMENT MARKINGS AS INDICATED IS APPROXIMATE.
 3. FOR PAVEMENT MARKING LINES, STOP BARS AND ARROWS AT RAMP SEE DETAILS "O" & "P" AND NOTES ON TRAFFIC STANDARD SHEET TR-1210.02 "PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS".
 4. RIGHT TURN PAVEMENT MARKINGS ARROWS ARE MIRROR IMAGE OF LEFT TURN PAVEMENT MARKING ARROWS.
 5. SHARED AISLES MAY NOT BE USED WHERE CONNECTICUT BUILDING CODE GOVERNS.
 6. LANE WIDTHS TO BE 11' UNLESS OTHERWISE NOTED.



(PIGGY BACK STYLE)



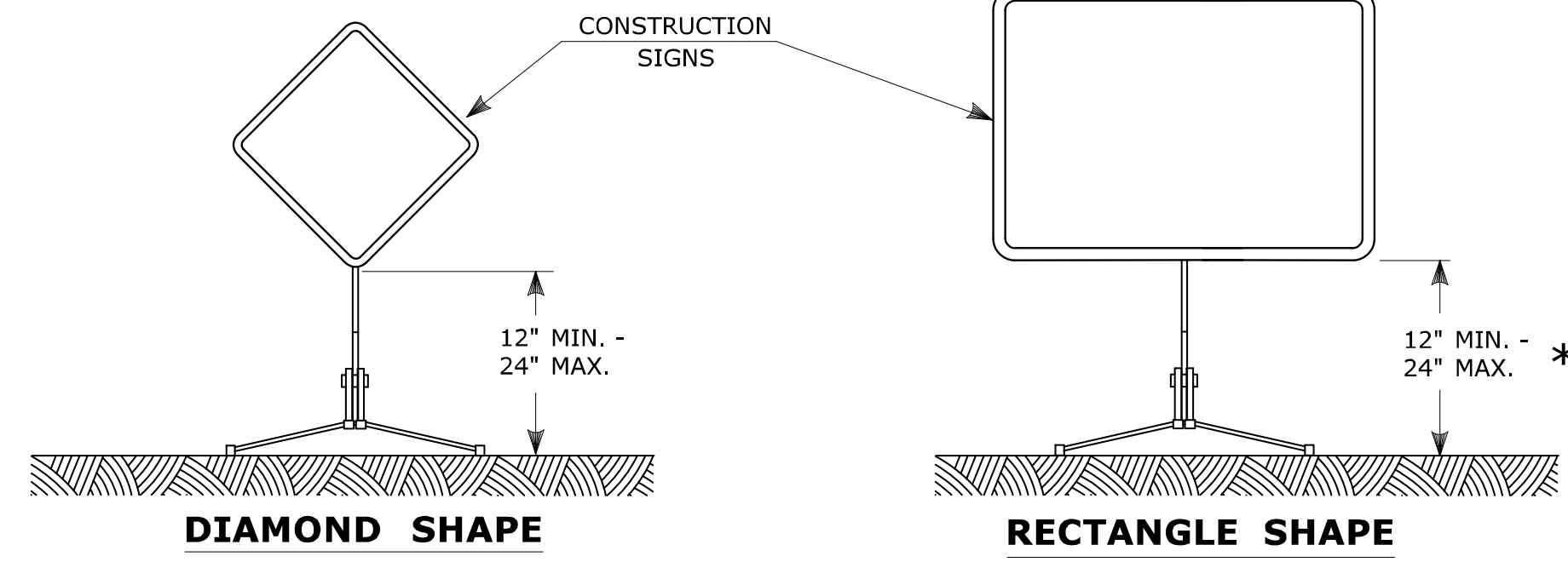
(SIDE BY SIDE STYLE) (SHARED AISLE)



(ANGLED SIDE BY SIDE STYLE) (SHARED AISLE)

E5 - SERIES				G20 - SERIES				M4 - SERIES				R1 - SERIES				R9 & R11 - SERIES				W1 - SERIES				W3 - SERIES																																																																																																																			
<p>COPY & BORDER - WHITE BACKGROUND - GREEN</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> </tr> </thead> <tbody> <tr> <td>16.0</td> <td>48</td> <td>51-6147</td> <td>2</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	51-6147	2	<p>VARIABLE MILEAGE</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> </tr> </thead> <tbody> <tr> <td>8.0</td> <td>48X24</td> <td>80-9612</td> <td>2</td> </tr> <tr> <td>90.0</td> <td>120X108</td> <td>80-9728</td> <td></td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	8.0	48X24	80-9612	2	90.0	120X108	80-9728		<p>VARIABLE ARROW</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> </tr> </thead> <tbody> <tr> <td>2.0</td> <td>24X12</td> <td>80-9707</td> <td>1</td> </tr> <tr> <td>5.0</td> <td>30X24</td> <td>80-9703</td> <td>1</td> </tr> <tr> <td>13.30</td> <td>48</td> <td>31-0557</td> <td>2</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	2.0	24X12	80-9707	1	5.0	30X24	80-9703	1	13.30	48	31-0557	2	<p>* COPY & BORDER - WHITE BACKGROUND - RED</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> </tr> </thead> <tbody> <tr> <td>5.19</td> <td>30</td> <td>31-0552</td> <td>1</td> </tr> <tr> <td>10.83</td> <td>60</td> <td>31-0528</td> <td>2B</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	5.19	30	31-0552	1	10.83	60	31-0528	2B	<p>COPY & BORDER - BLACK BACKGROUND - WHITE</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> </tr> </thead> <tbody> <tr> <td>3.75</td> <td>30X18</td> <td>80-9076</td> <td>1</td> </tr> <tr> <td>12.5</td> <td>60X30</td> <td>80-9077</td> <td>2</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	3.75	30X18	80-9076	1	12.5	60X30	80-9077	2	<p>VARIABLE MILEAGE COPY & BORDER - BLACK BACKGROUND - WHITE</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> </tr> </thead> <tbody> <tr> <td>9.0</td> <td>36</td> <td>80-9432L</td> <td>1</td> </tr> <tr> <td>9.0</td> <td>36</td> <td>80-9431R</td> <td>1</td> </tr> <tr> <td>16.0</td> <td>48</td> <td>80-9452L</td> <td>2</td> </tr> <tr> <td>16.0</td> <td>48</td> <td>80-9451R</td> <td>2</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9432L	1	9.0	36	80-9431R	1	16.0	48	80-9452L	2	16.0	48	80-9451R	2	<p>W1-4</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> </tr> </thead> <tbody> <tr> <td>9.0</td> <td>36</td> <td>80-9432L</td> <td>1</td> </tr> <tr> <td>9.0</td> <td>36</td> <td>80-9431R</td> <td>1</td> </tr> <tr> <td>16.0</td> <td>48</td> <td>80-9452L</td> <td>2</td> </tr> <tr> <td>16.0</td> <td>48</td> <td>80-9451R</td> <td>2</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9432L	1	9.0	36	80-9431R	1	16.0	48	80-9452L	2	16.0	48	80-9451R	2	<p>W3-1</p> <table border="1"> <thead> <tr> <th>AREA (SQ. FT)</th> <th>SIZE (INCHES)</th> <th>CONN. D.O.T. #</th> <th>POSTS</th> </tr> </thead> <tbody> <tr> <td>9.0</td> <td>36</td> <td>80-9808</td> <td>1</td> </tr> </tbody> </table>				AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9808	1
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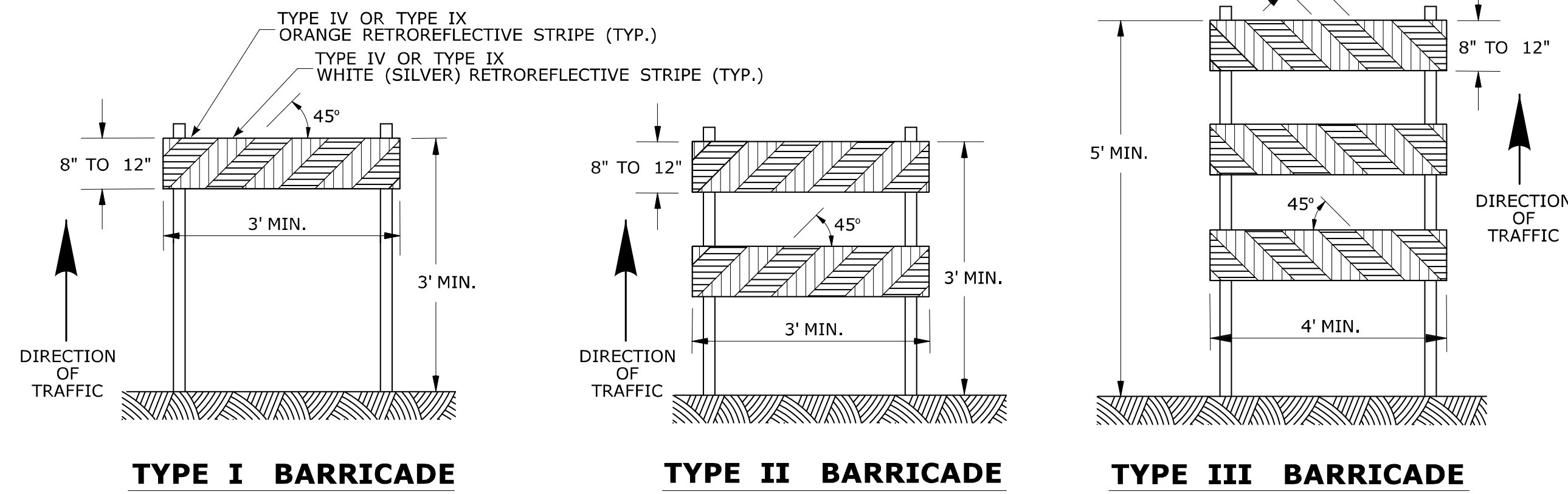


PORTABLE CONSTRUCTION SIGNS

NOTES FOR PORTABLE SIGN SUPPORTS:

- SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" AND A MAXIMUM OF 24". SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES.
- PORTABLE CONSTRUCTION SIGN SUPPORTS SHOULD NOT BE USED FOR DURATION OF MORE THAN 3 DAYS EXCEPT FOR R9-8 THROUGH R9-11a SERIES, R11 SERIES, W1-6 THROUGH W1-8 SERIES, M4-10, AND E5-1. SEE STANDARD SHEET TR-1220.01 - "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" FOR SIGN DETAILS.

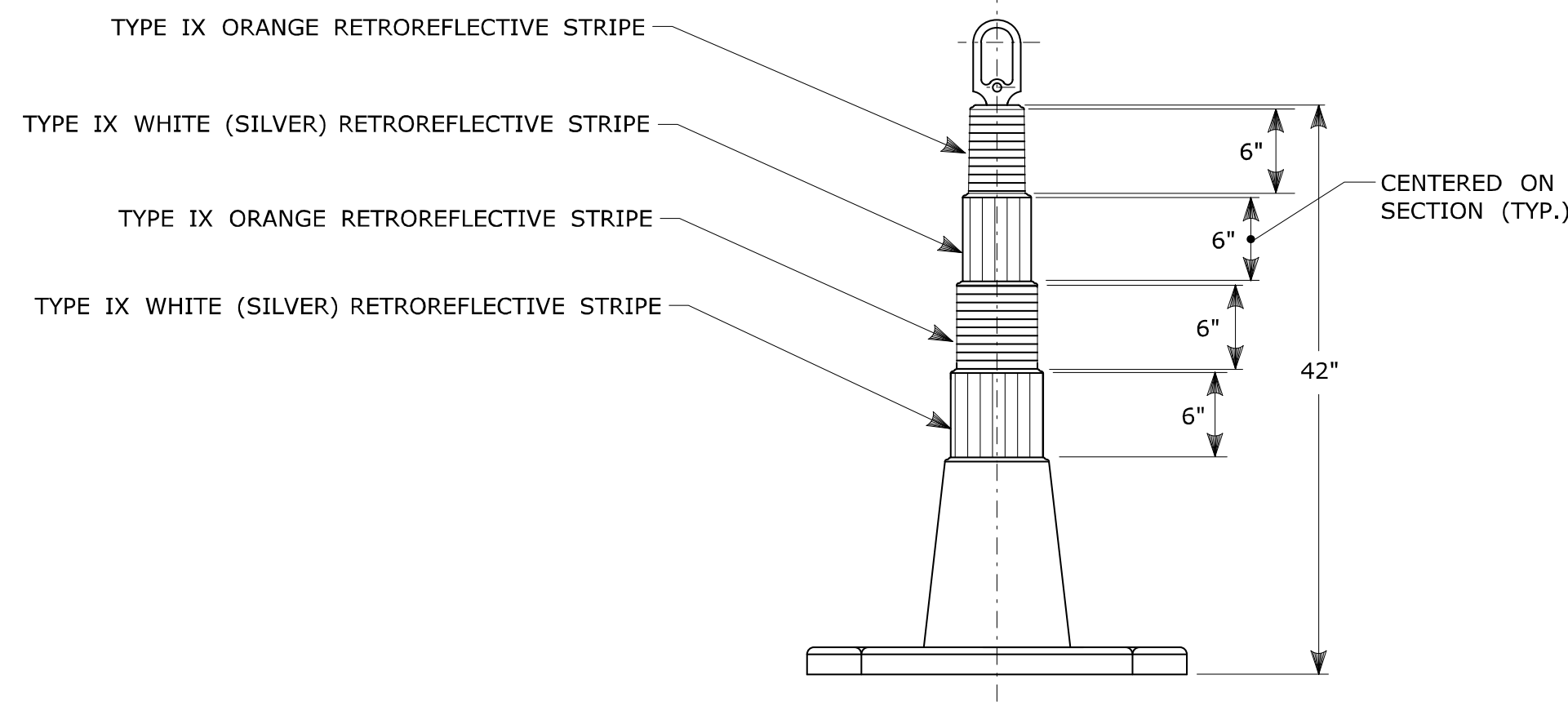
* FOR E5-1 (EXIT SIGNS) USE MIN 48".



CONSTRUCTION BARRICADES

NOTES:

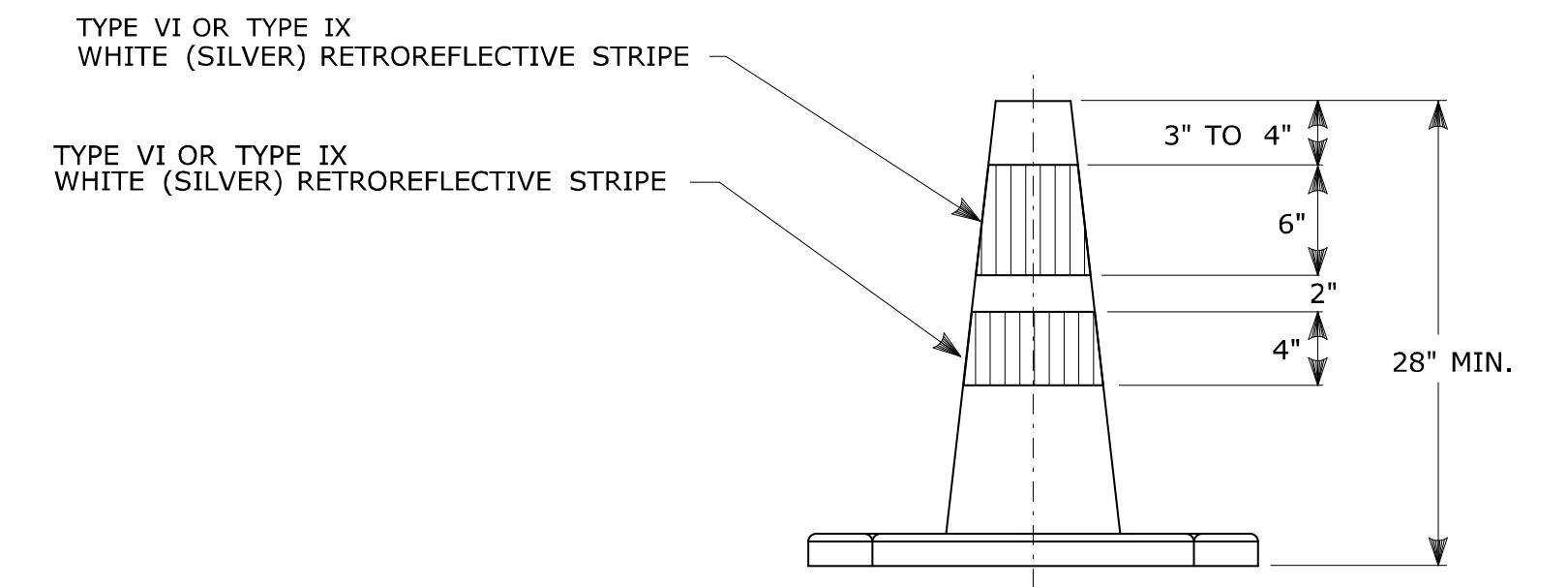
- CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH AND THE LATEST EDITION OF THE MUTCD.
- MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.
- THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
- SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL.



42" TRAFFIC CONE

NOTES:

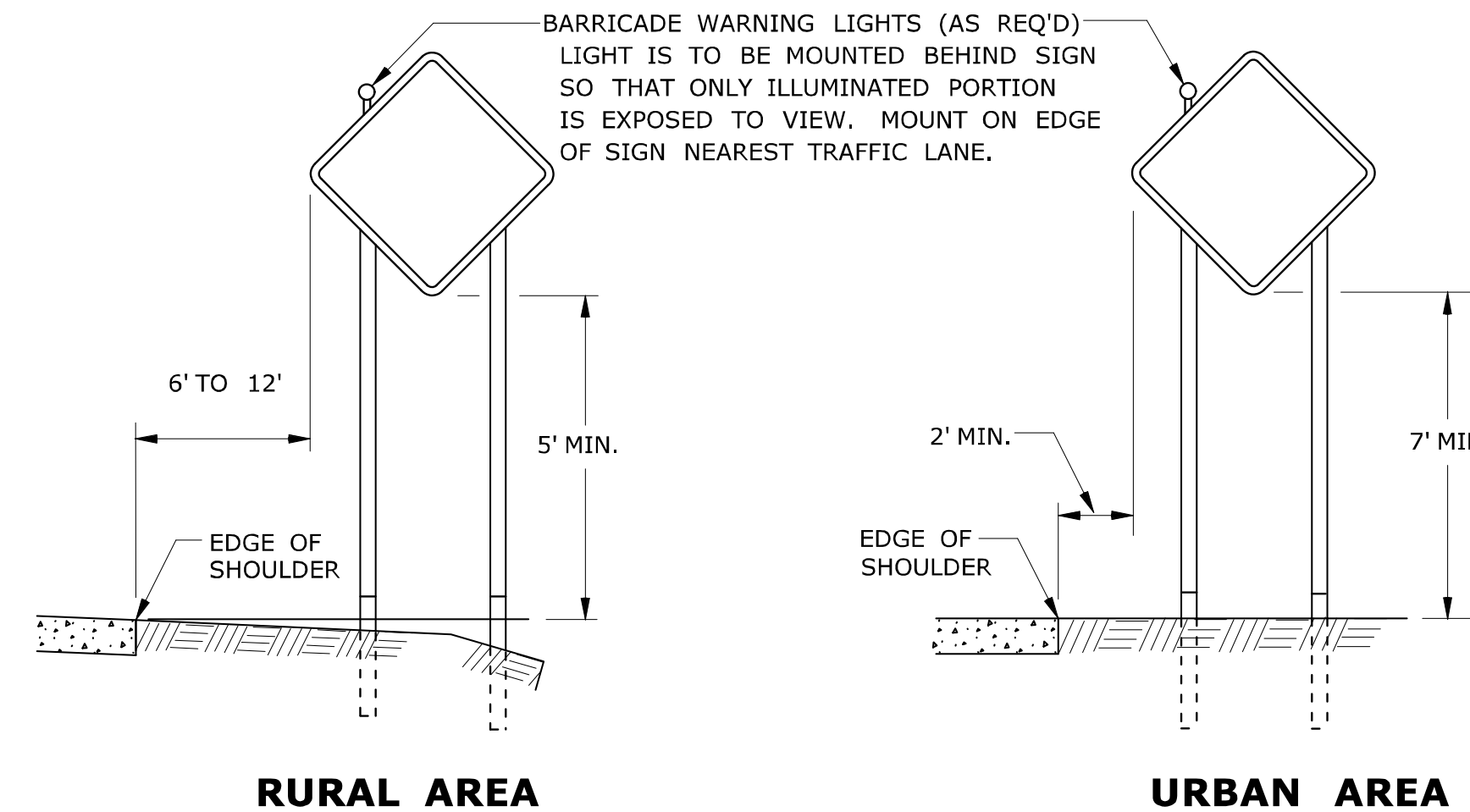
- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



TRAFFIC CONE

NOTES:

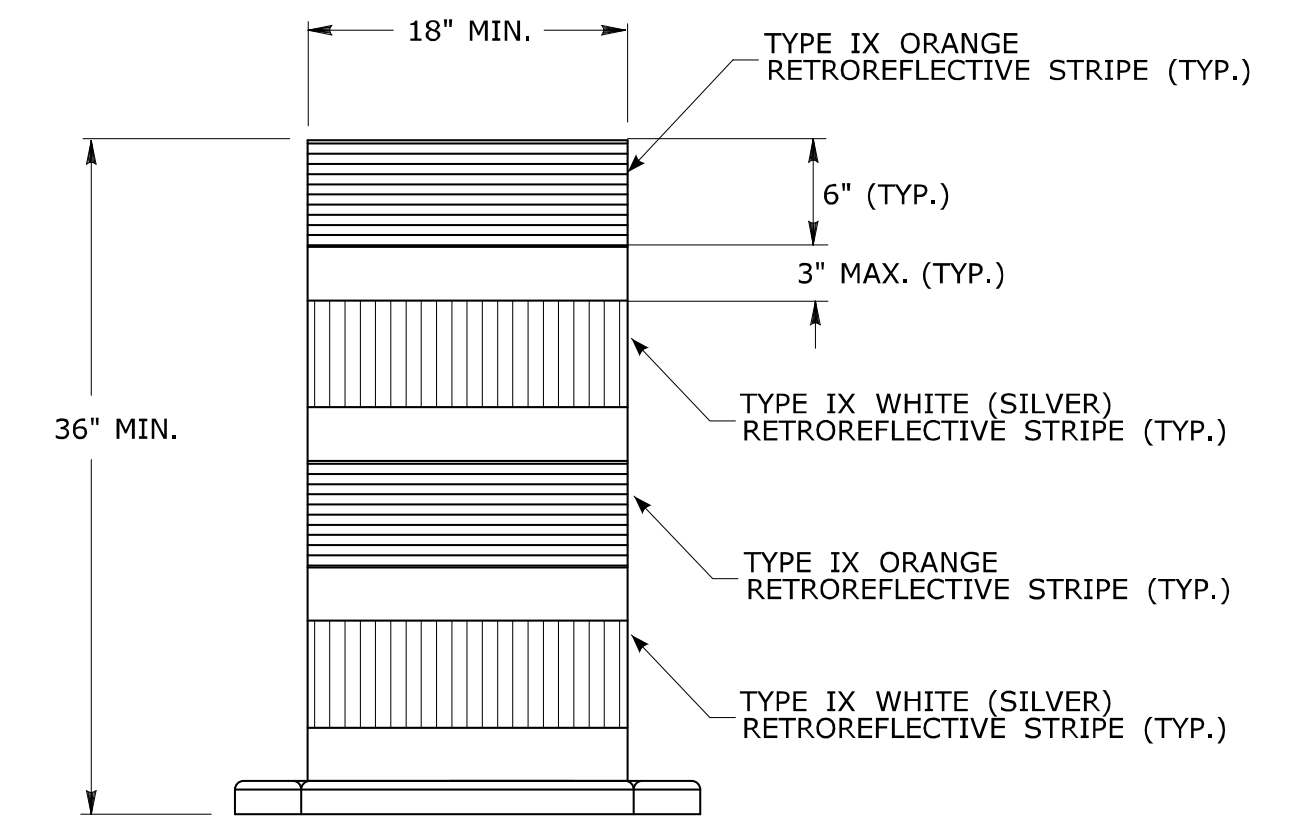
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- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- TRAFFIC CONES NOT USED AT NIGHT MAY UTILIZE TYPE III SHEETING.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



**PLACEMENT OF CONSTRUCTION SIGNS
TYPICAL LONG TERM INSTALLATION**

NOTES:

- SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES.
- SEE TYPICAL SHEETS:
 "TYPICAL SIGN SUPPORT AND SIGN PLACEMENT DETAILS-GORE EXIT SIGN"
 "TYPICAL METAL SIGN POSTS AND SIGN MOUNTING DETAILS"



**TRAFFIC DRUM
FRONT VIEW**

NOTES:

- TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED. Plotted Date: 8/14/2015		NOT TO SCALE				SUBMITTED BY: <i>Mark Makuch</i> Mark F. Makuch, P.E. 2015.08.26 07:15:47-04'00" APPROVED BY: <i>Charles S. Harlow</i> Charles S. Harlow, P.E. 2015.08.28 11:40:57-04'00"		STANDARD SHEET TITLE: CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES		STANDARD SHEET NO.: TR-1220_02	
2 1 1	8-2015 2-2011 2-2011	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION, MINOR REVISIONS.	REV. DATE REVISION DESCRIPTION	CTDOT STANDARD SHEET OFFICE OF ENGINEERING							

NOTES

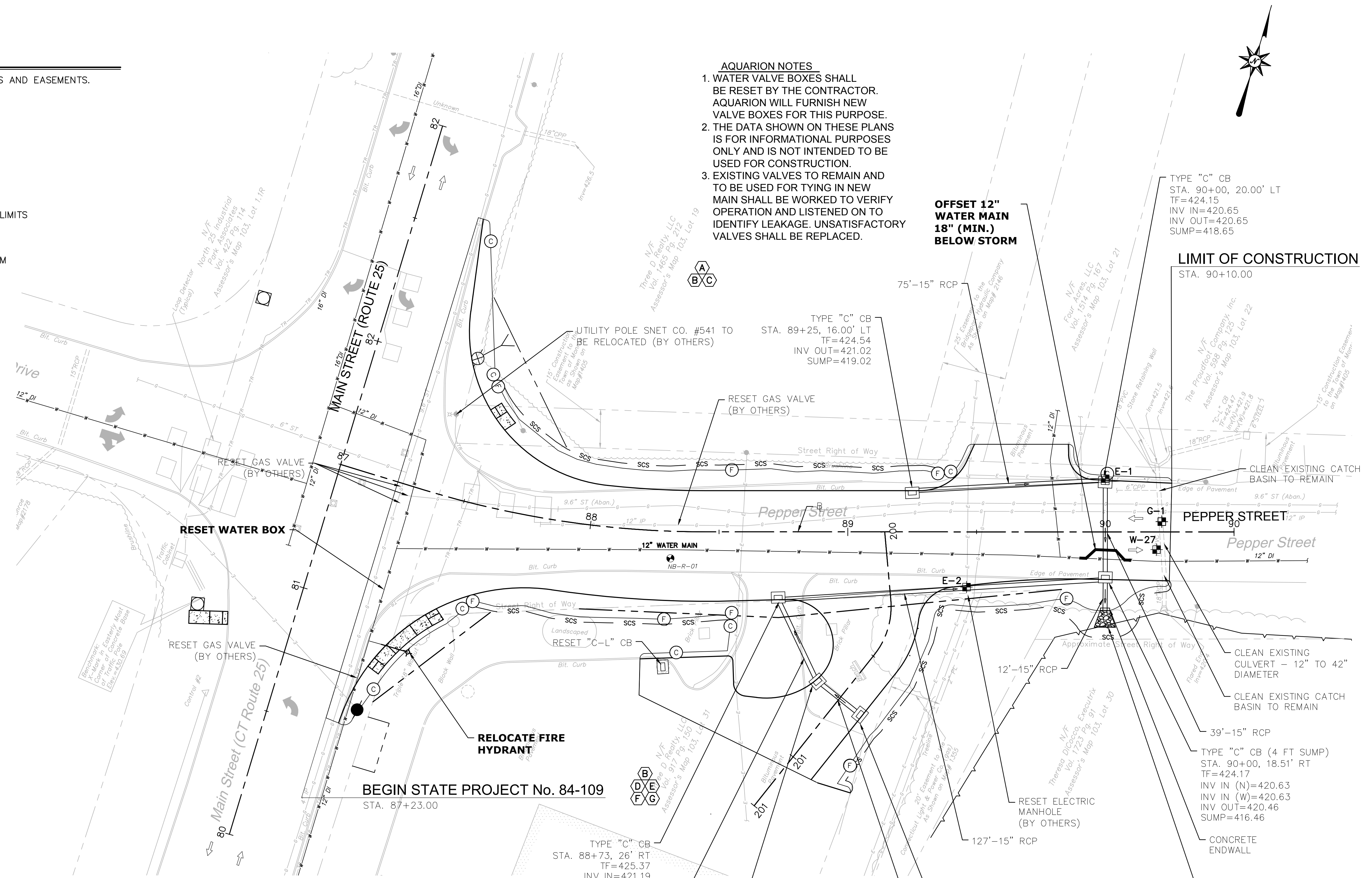
1. REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.

LEGEND:

- (FC)— FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS — SEDIMENTATION CONTROL SYSTEM
- ⊙ BORING LOCATION
- ⊠ TEST PIT LOCATION

AQUARION NOTES

1. WATER VALVE BOXES SHALL BE RESET BY THE CONTRACTOR. AQUARION WILL FURNISH NEW VALVE BOXES FOR THIS PURPOSE.
2. THE DATA SHOWN ON THESE PLANS IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION.
3. EXISTING VALVES TO REMAIN AND TO BE USED FOR TYING IN NEW MAIN SHALL BE WORKED TO VERIFY OPERATION AND LISTENED ON TO IDENTIFY LEAKAGE. UNSATISFACTORY VALVES SHALL BE REPLACED.



TEST PIT #	BASELINE		NORTHING*	EASTING*	ELECTRIC		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
E-1	90+00	20.67 LT	688295.23	860245.50	424.18	421.58	2 X 4" CONDUIT	YES
E-2	89+46	21.45 RT	688233.41	860216.53	425.20	423.00	4" CONDUIT	YES

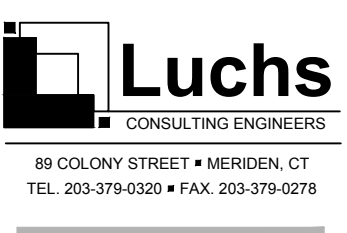
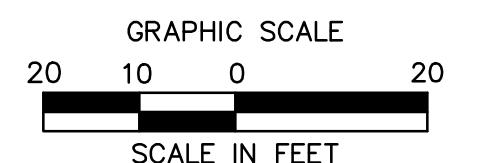
*APPROXIMATE LOCATIONS

TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-27	90+20	6.87 RT	688279.63	860275.68	423.91	420.33	12" D.I.	YES

TEST PIT #	BASELINE		NORTHING*	EASTING*	GAS		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
G-1	90+22	3.99 LT	688290.23	860272.59	424.30	420.22	12" STEEL	YES

*APPROXIMATE LOCATIONS

* TO BE MAINTAINED BY PROPERTY OWNER



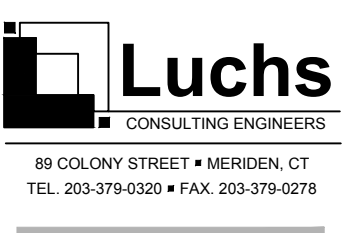
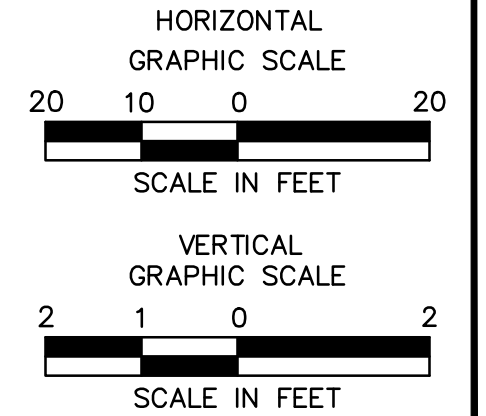
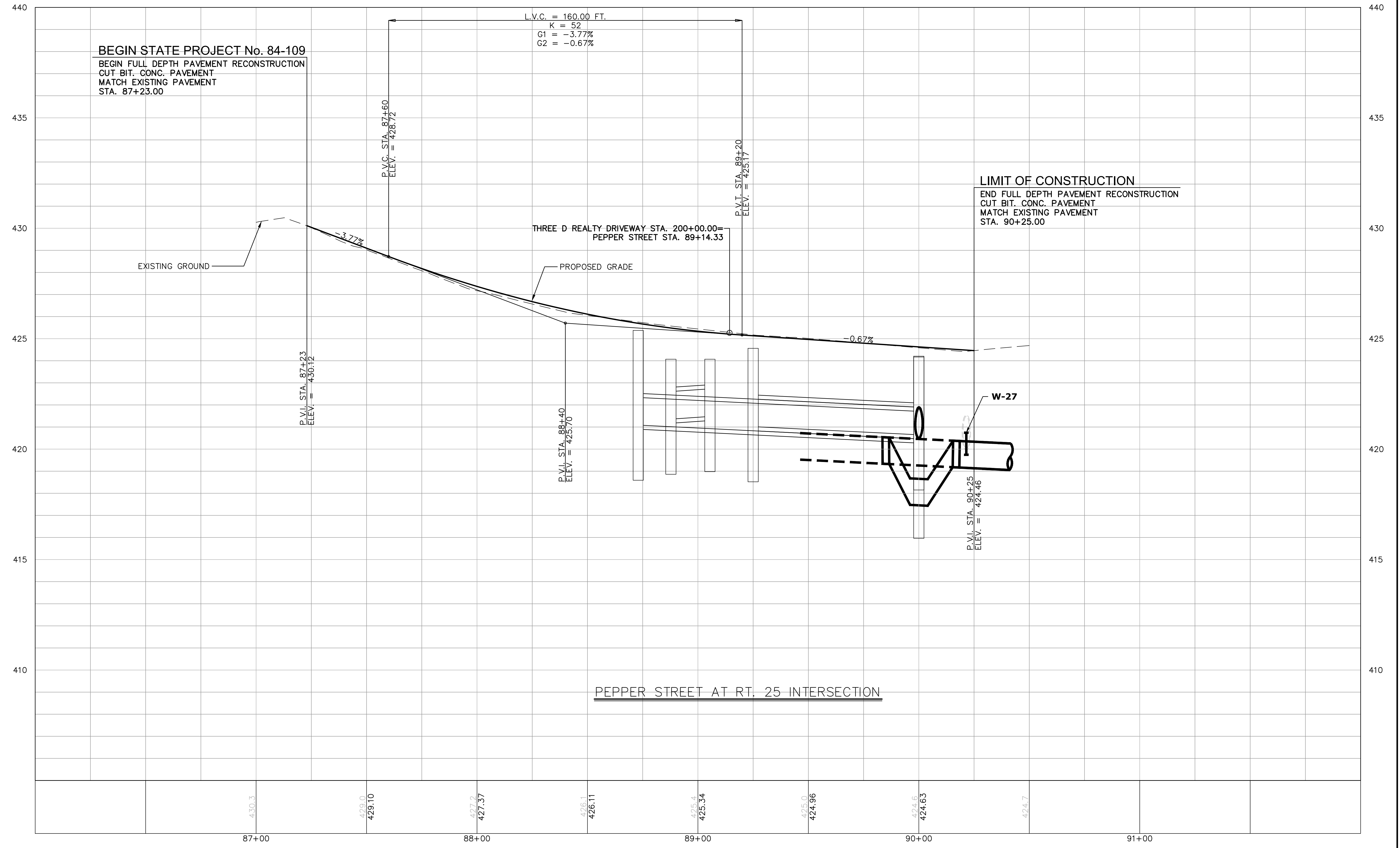
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

Title: **WATER MAIN RELOCATION PLAN**
 Project No. 25037-601
 Date 07/07/2016
 Scale 1"=20'
 Drawn O.L.C.
 Checked B.J.P.
 Approved
 Designated O.L.C.
 No. Date
 REVISIONS
 Desc.

AWC-1
 Sheet No.

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ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS

No.	Date	Desc.

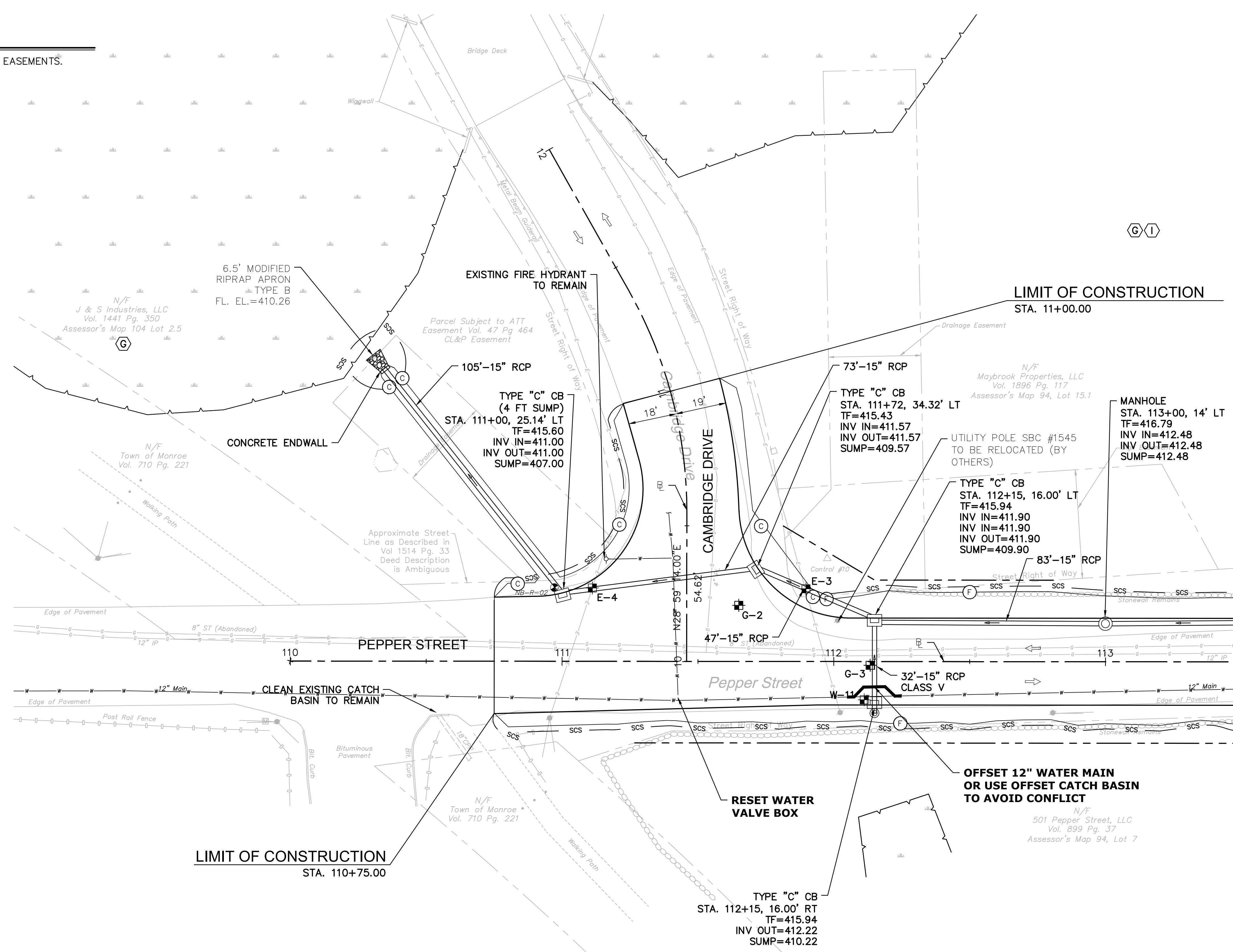
Designed O.L.C.
 Drawn O.L.C.
 Checked B.J.P.
 Approved
 Scale AS NOTED
 Project No. 25037-601
 Date 07/07/2016
 CAD File: AWC-PROFILES 2 & 9

NOTES

1. REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.

LEGEND:

- FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SEDIMENTATION CONTROL SYSTEM
- TEST PIT LOCATION



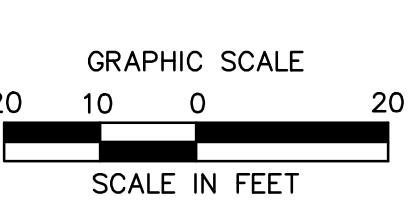
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	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
E-3	111+90	26.75 LT	687548.82	862001.76	415.50	413.25	3 X 4" CONDUIT; 3 X 6" CONDUIT	YES
E-4	111+11	27.00 LT	687587.02	861959.94	415.28	413.38	2 X 6" CONDUIT	YES

*APPROXIMATE LOCATIONS

TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-11	112+11	14.08 RT	687502.69	862027.81	415.88	411.30	12" D.I.	YES

TEST PIT #	BASELINE		NORTHING*	EASTING*	GAS		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
G-2	111+65	20.65 LT	687555.42	862004.16	416.00	412.58	4" PLASTIC	NO
G-3	112+13	1.36 RT	687512.77	862035.87	416.62	413.62	12" STEEL	NO

*APPROXIMATE LOCATIONS



AQUARION

Luchs
CONSULTING ENGINEERS
86 COLONY STREET • MERIDEN, CT
TEL. 203-378-0200 • FAX. 203-378-0278

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

Revisions Table:

No.	Date	Desc.

Designed: O.L.C.
 Drawn: O.L.C.
 Checked: B.J.P.
 Approved:
 Scale: 1"=20'
 Project No.: 25037-601
 Date: 07/07/2016

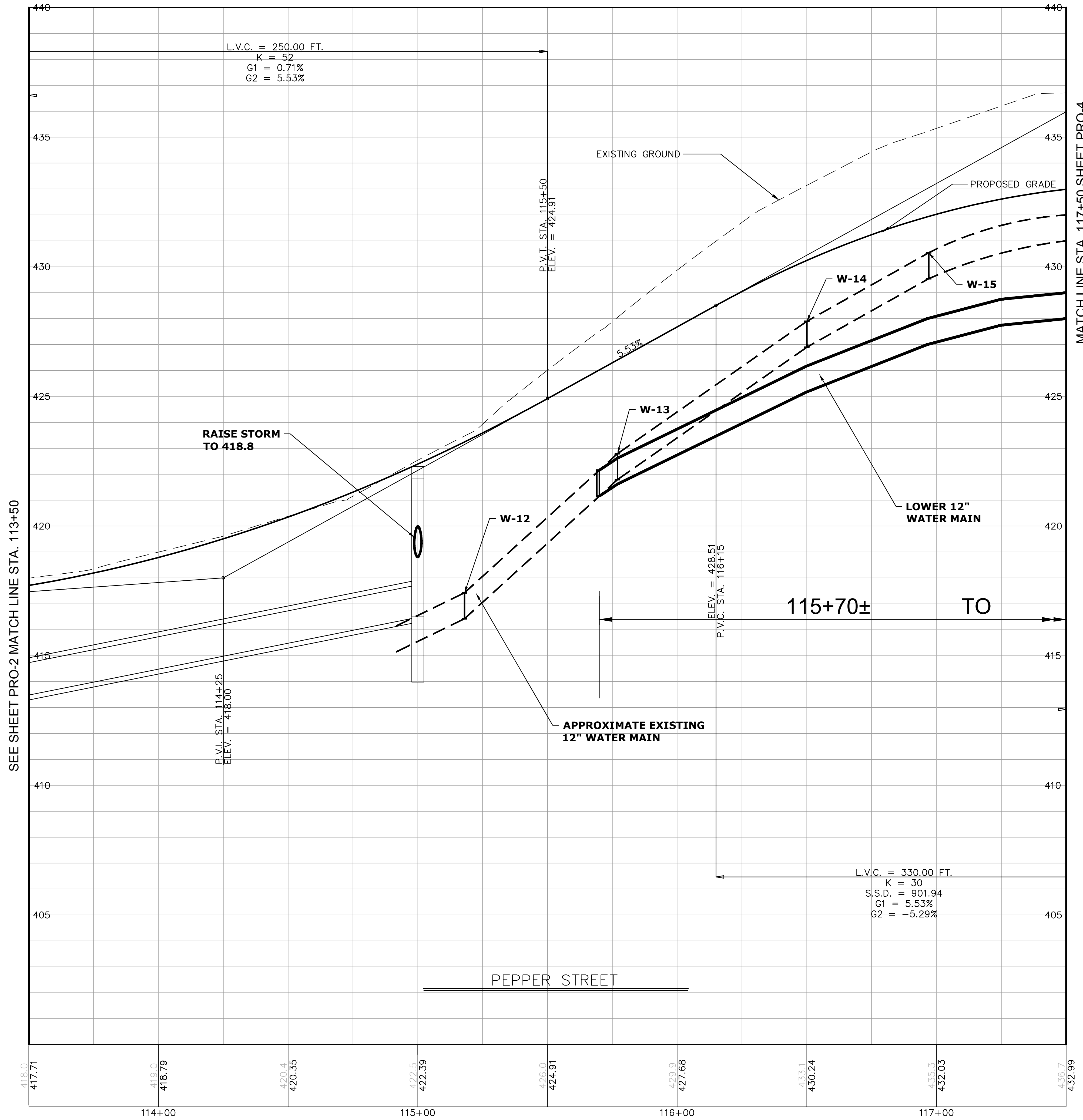
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Sheet No. **AWC-3**

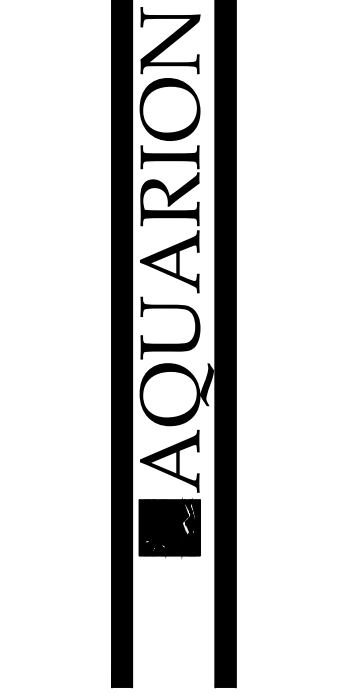
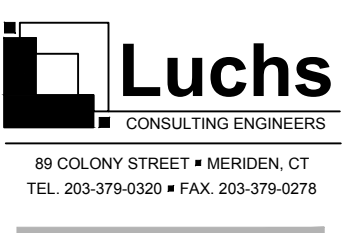
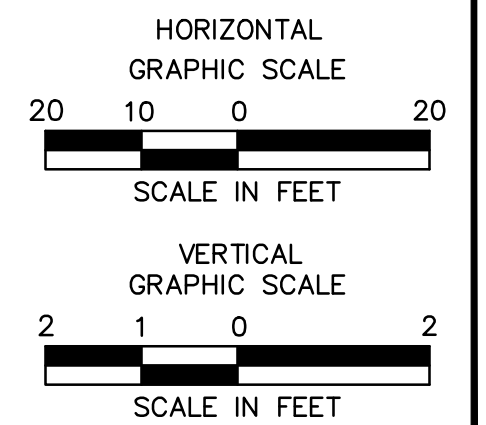
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SEE SHEET PRO-2 MATCH LINE STA. 113+50

MATCH LINE STA. 117+50 SHEET PRO-4



ROADWAY RECONSTRUCTION
 PEPPER STREET
 MONROE, CONNECTICUT

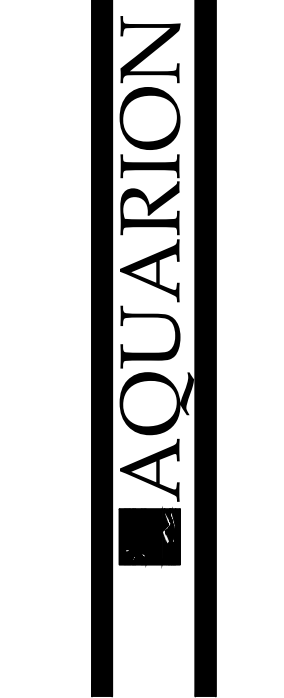
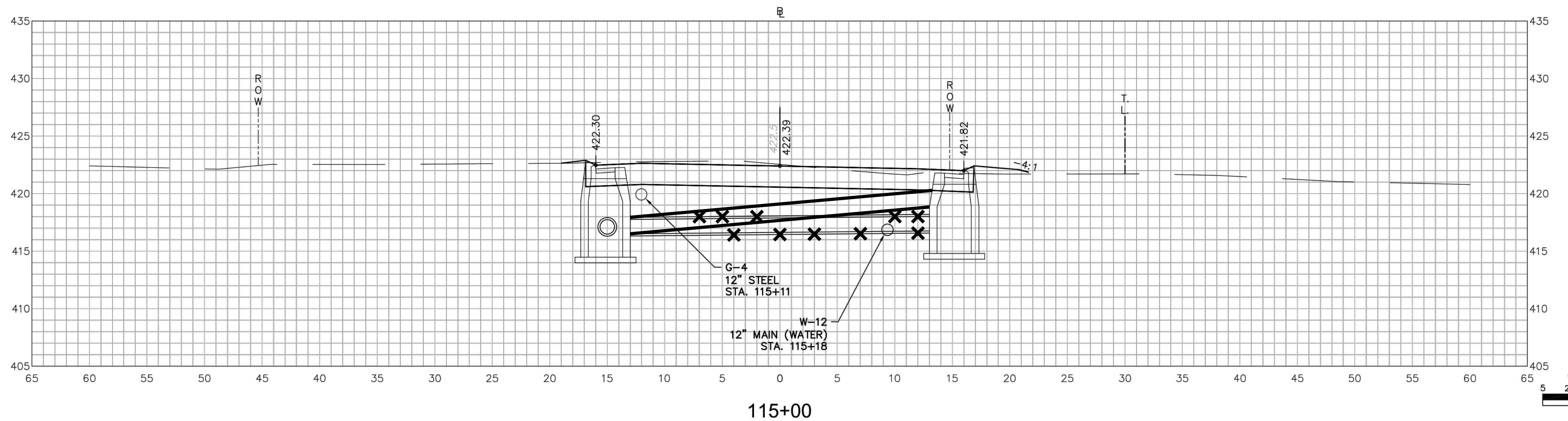
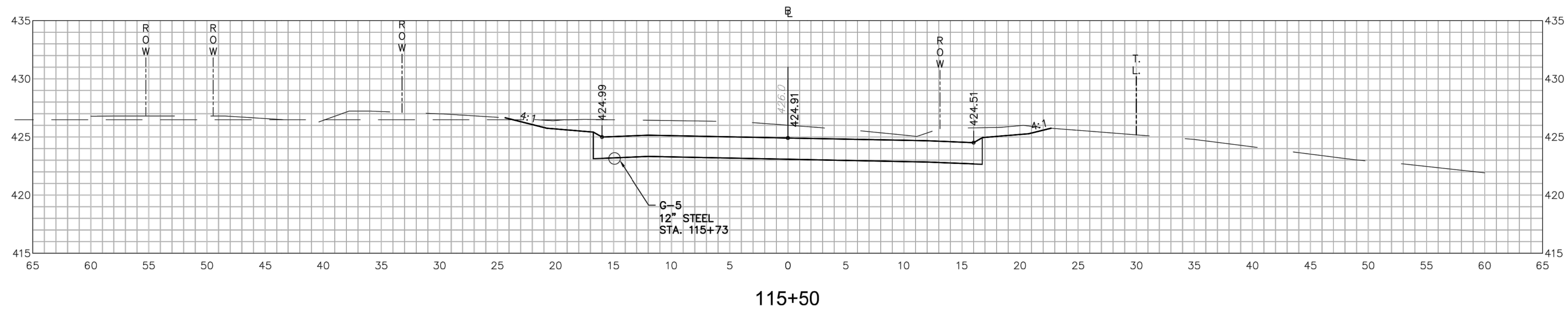
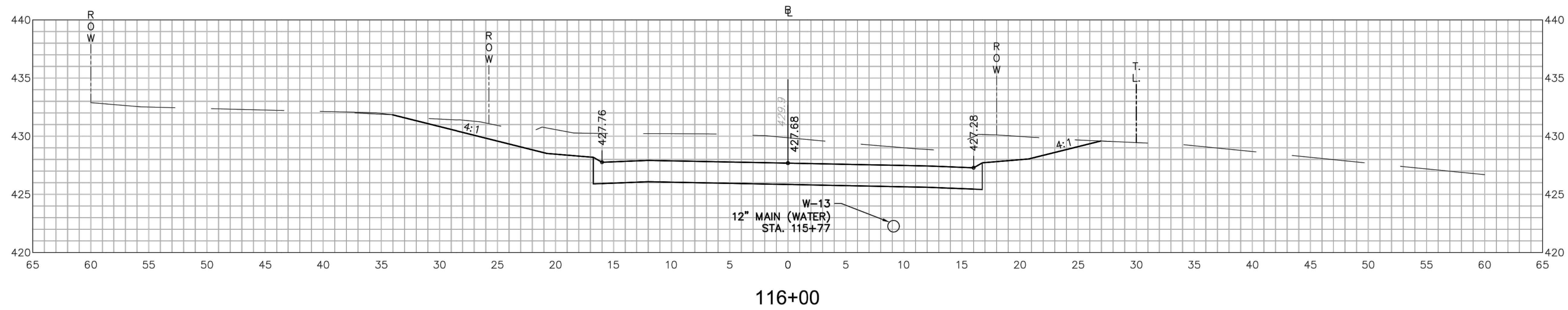
REV. NO.	DATE	DESC.

Designed: O.L.C.
 Drawn: O.L.C.
 Checked: B.J.P.
 Approved: AS NOTED
 Scale: AS NOTED
 Project No.: 25037-601
 Date: 07/07/2016
 CAD File: AWC-PROFILES 2 & 6

ROADWAY PROFILE

Sheet No. **AWC-6**

Xref (p): : B012C432601 : R12C432601 : X12C432601 : B096C2092601



ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REV/NO	Date	Desc.

Designed O.L.C.
 Drawn O.L.C.
 Checked B.J.P.
 Approved
 Scale AS NOTED
 Project No. 25037-601
 Date 07/07/2016
 CAD File: AWC-XSEC 4 7

Title
ROADWAY PROFILE

Sheet No.

AWC-7

\PROJECTS\LUCHS PROJECTS\25037 AQUARION\601 MONROE - PEPPER STREET\AWC-XSEC 4 7.DWG-AWC-7 XSEC

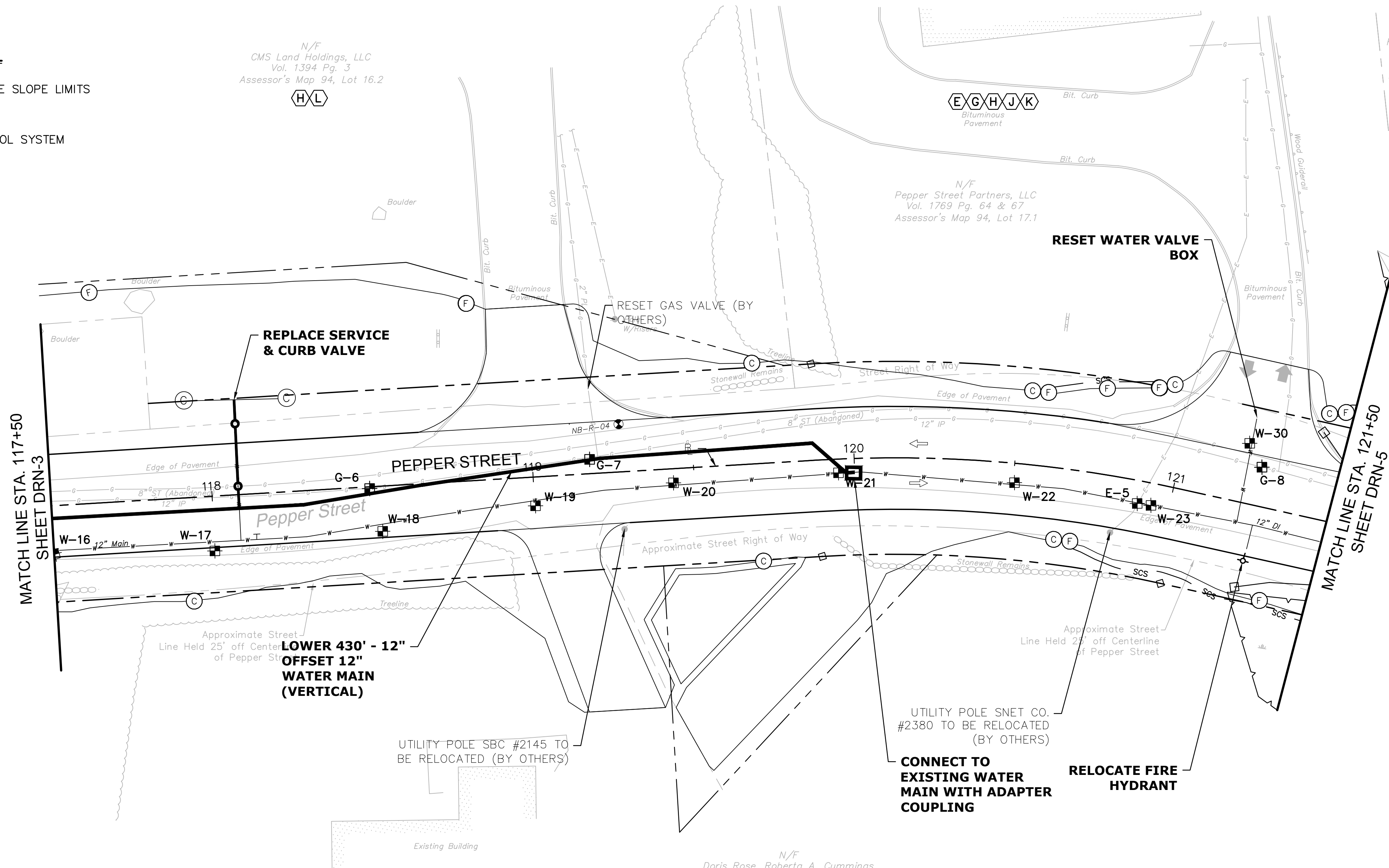
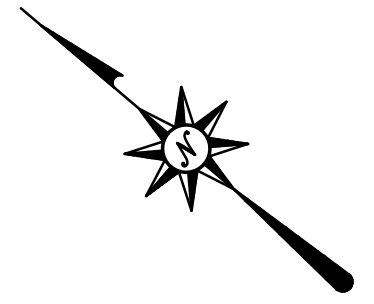
Xref (p) : B012C432601 : B006C2092801

NOTES

- REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.

LEGEND:

- FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION
- TEST PIT LOCATION



N/F
Doris Rose, Roberto A. Cummings,
Norma P. Davis, Glen M. Davis,
Deborah D. Andrasko
Vol. 1659 Pg. 117
Assessor's Map 94, Lot 6
G H J K L

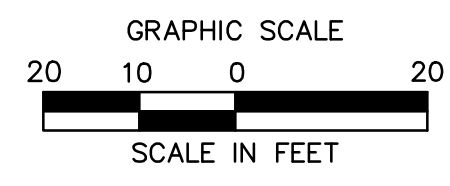
TEST PIT #	BASELINE		NORTHING*	EASTING*	ELECTRIC		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
E-5	120+89	7.00 RT	686927.98	862664.44	421.82	418.98	2 X 4" CONDUIT; 6" CONDUIT	NO

*APPROXIMATE LOCATIONS

TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-16	117+50	15.14 RT	687189.10	862450.94	436.73	432.40	12" D.I.	YES
W-17	118+00	17.04 RT	687149.65	862481.53	436.31	431.89	12" D.I.	YES
W-18	118+52	14.05 RT	687111.36	862517.52	435.47	430.22	12" D.I.	YES
W-19	119+00	8.96 RT	687077.91	862552.20	434.32	428.57	12" D.I.	YES
W-20	119+44	4.38 RT	687047.70	862583.49	432.04	426.12	12" D.I.	YES
W-21	119+95	4.27 RT	687008.35	862616.55	427.93	422.68	12" D.I.	NO
W-22	120+50	13.81 RT	686962.56	862646.69	423.70	416.70	12" D.I.	NO
W-23	120+94	6.85 RT	686924.25	862666.30	421.28	416.20	12" D.I.	NO
W-30	121+20	18.58 LT	686911.07	862100.10	420.40	414.90	12" D.I.	NO

TEST PIT #	BASELINE		NORTHING*	EASTING*	GAS		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
G-6	118+49	0.54 RT	687122.56	862525.77	436.00	433.08	12" STEEL	YES
G-7	119+18	4.46 LT	687073.02	862573.80	434.00	431.25	12" STEEL	YES
G-8	121+25	12.14 LT	686903.60	862696.38	420.83	417.75	12" STEEL	NO

*APPROXIMATE LOCATIONS



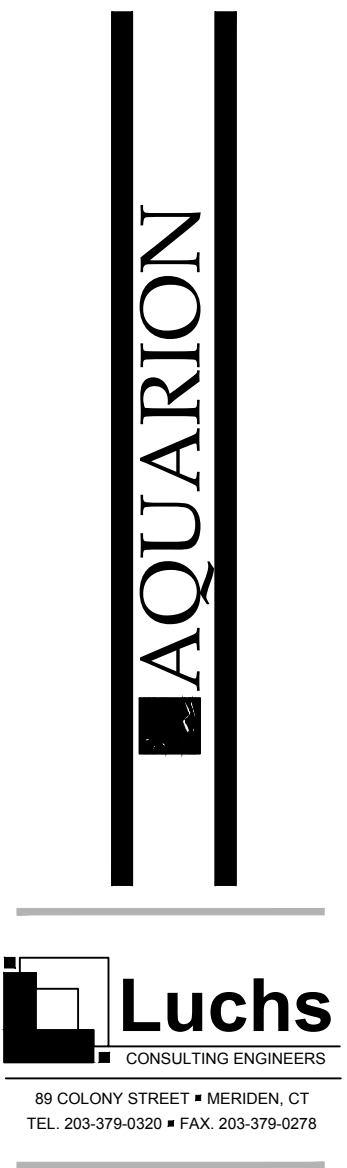
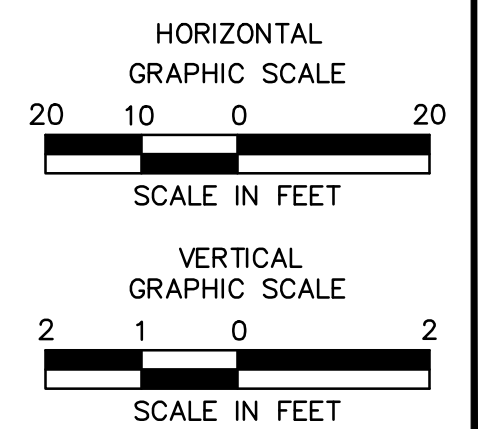
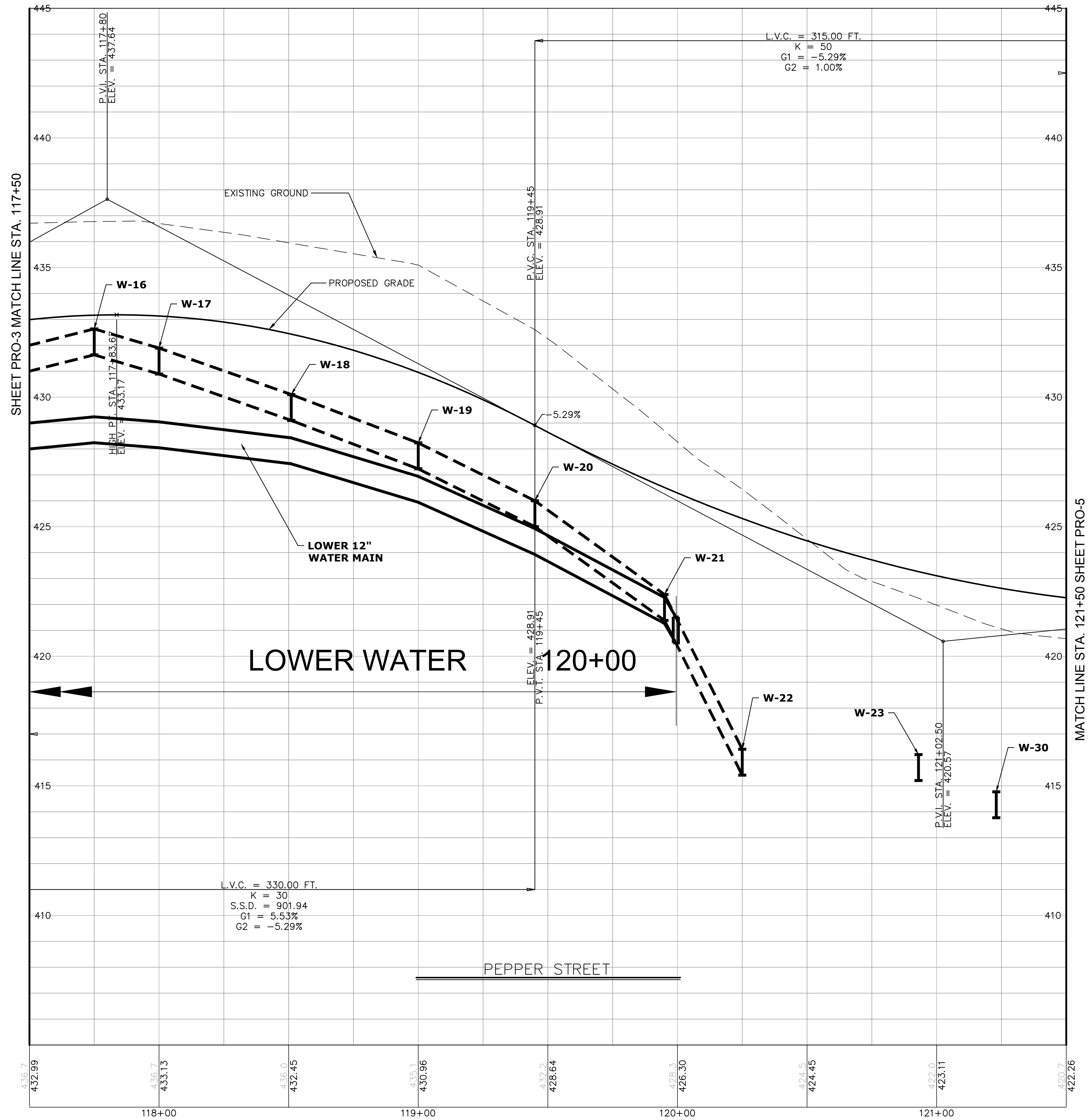
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS	No.	Date	Desc.

Designed O.L.C.
Drawn O.L.C.
Checked B.J.P.
Approved
Scale 1"=20'
Project No. 25037-601
Date 07/07/2016
CAD File: PLANS 1 3 5 8 10 11 12 13

***** ED. G. PROJECTS\LUCHS\PROJECTS\25037 AQUARION\01 MONROE - PEPPER STREET\AWC-PLANS 1 3 5 8 10 11 12 13.DWG.AWC-8 24X36 2020.

ED. G:\PROJECTS\LUCHS\PROJECTS\25037_AQUARION\601_MONROE - PEPPER STREET\AWC PLANS\AWC-PROFILES 2 & 6_BDMC.AWC-9 PROFILE



ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS	
No.	Date

Designed: O.L.C.
 Drawn: O.L.C.
 Checked: B.J.P.
 Approved: AS NOTED
 Scale: 25037-601
 Project No.: 07/07/2016
 Date: AWC-PROFILES 2 6 9
 Title: ROADWAY PROFILE

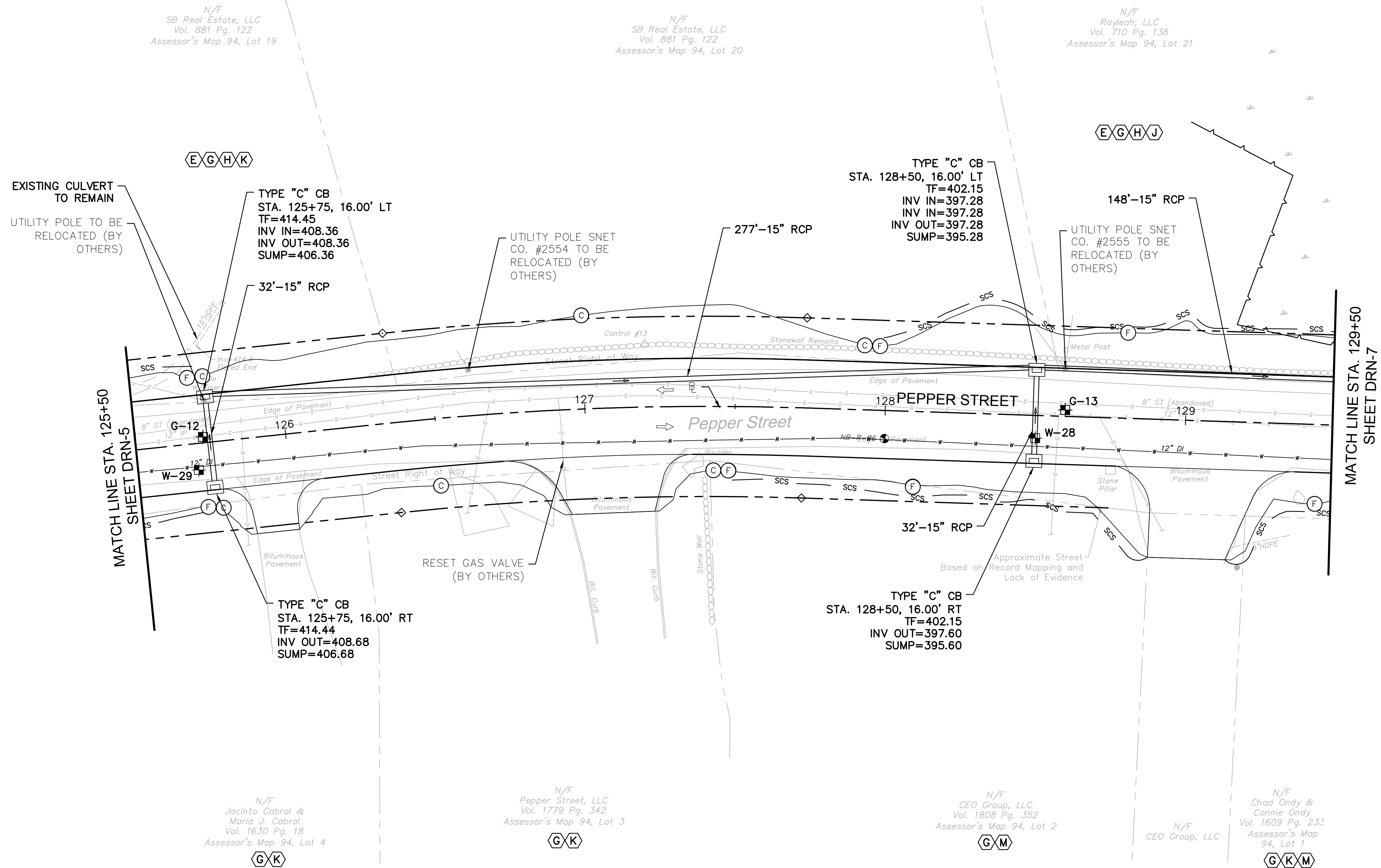
Sheet No. **AWC-9**

NOTES

- REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.

LEGEND:

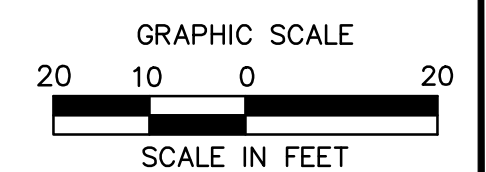
- (C)C— FILL/CUT APPROXIMATE SLOPE LIMITS
- ⇒ DIRECTION OF TRAVEL
- SCS — SEDIMENTATION CONTROL SYSTEM
- ⊗ BORING LOCATION
- ⊕ TEST PIT LOCATION



TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-29	125+70	8.85 RT	686500.01	862882.19	415.10	408.02	12" D.I.	NO
W-28	128+50	7.57 RT	686248.66	863002.24	399.80	392.97	12" D.I.	NO

TEST PIT #	BASELINE		NORTHING*	EASTING*	GAS		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
G-12	125+73	1.95 LT	686503.16	862892.80	415.38	412.21	12" STEEL	NO
G-13	128+60	2.12 LT	686243.21	863014.82	400.04	396.29	12" STEEL	NO

*APPROXIMATE LOCATIONS



ED. G. PROJECTS\LUCAS\PROJECTS\25037 AQUARIUM\01 MONROE - PEPPER STREET\AWC PLANS\AWC-10 24x36 2025.



ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

Xref (D): .\AWC_B012C432601.XREF12C432602.XREF12C432603.XREF12C432604.XREF12C432605.XREF12C432606.XREF12C432607.XREF12C432608.XREF12C432609.XREF12C432610.XREF12C432611.XREF12C432612.XREF12C432613.XREF12C432614.XREF12C432615.XREF12C432616.XREF12C432617.XREF12C432618.XREF12C432619.XREF12C432620

REV/ISSIONS	Date	Desc.

Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	1"=20'
Project No.	25037-601
Date	07/07/2016

Title
DRAINAGE PLAN
 Sheet No.

AWC-10

NOTES

1. REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.

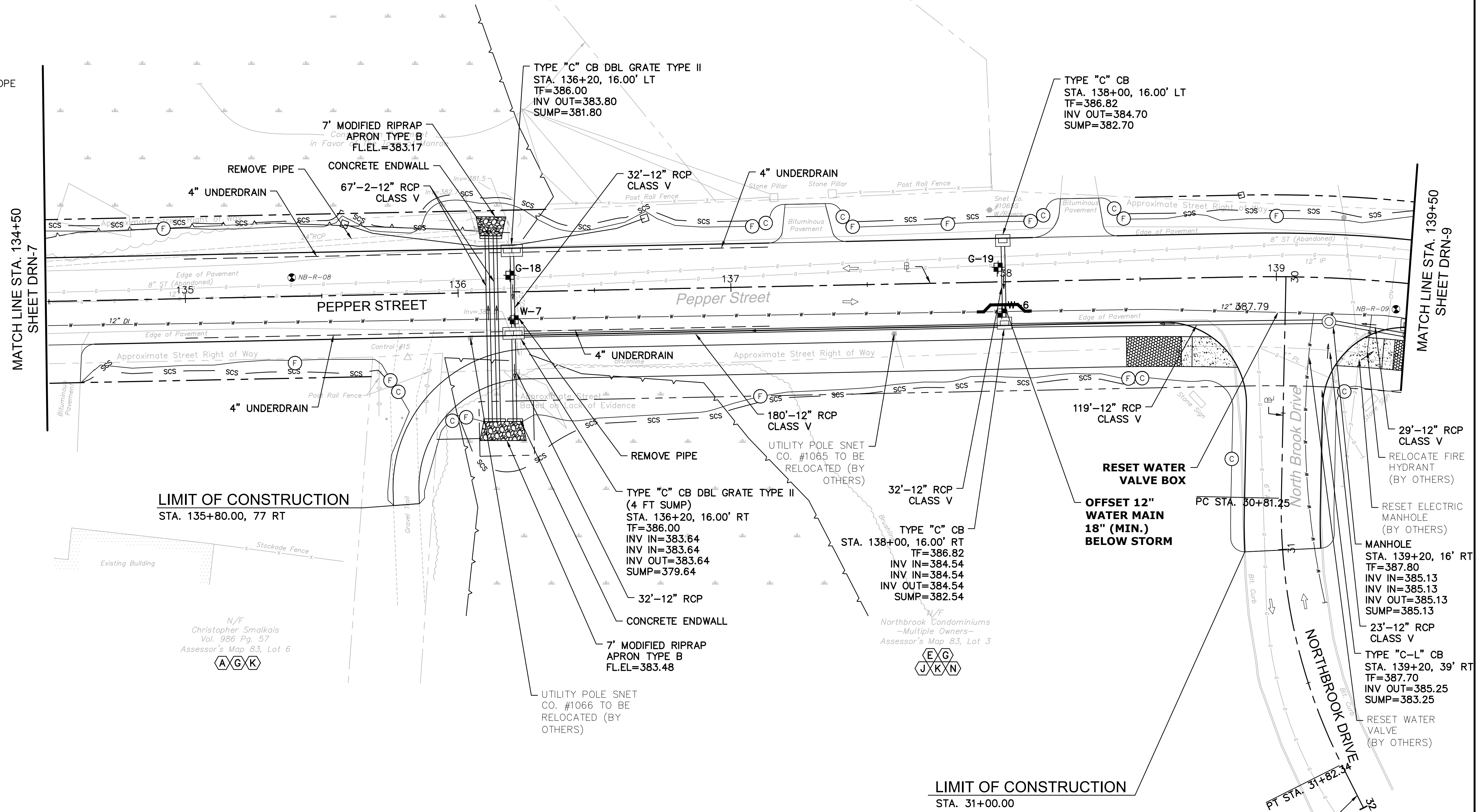
N/F
Carl Ruspini
Vol. 807 Pg. 30
Assessor's Map 83, Lot 10.2
E G J

N/F
Carl Ruspini
Vol. 807 Pg. 30
Assessor's Map 83, Lot 10.2
E G J

N/F
Dongmei Gu &
Jianmin Zhong
Vol. 877 Pg. 227
Assessor's Map 83, Lot 10.1
G I K

LEGEND:

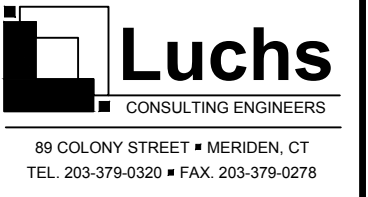
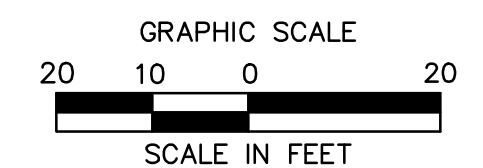
- FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION
- TEST PIT LOCATION



TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-7	136+20	10.21 RT	685585.90	863386.97	386.33	382.00	12" D.I.	NO
W-6	137+99	11.39 RT	685446.06	863498.25	386.99	382.32	12" D.I.	YES

TEST PIT #	BASELINE		NORTHING*	EASTING*	GAS		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
G-18	136+19	6.12 LT	685597.12	863398.88	386.71	383.13	12" STEEL	YES
G-19	137+98	5.39 LT	685457.38	863510.69	387.35	384.02	12" STEEL	YES

*APPROXIMATE LOCATIONS



ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REV/SIONS

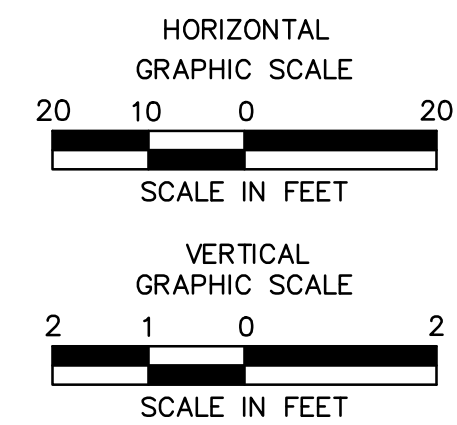
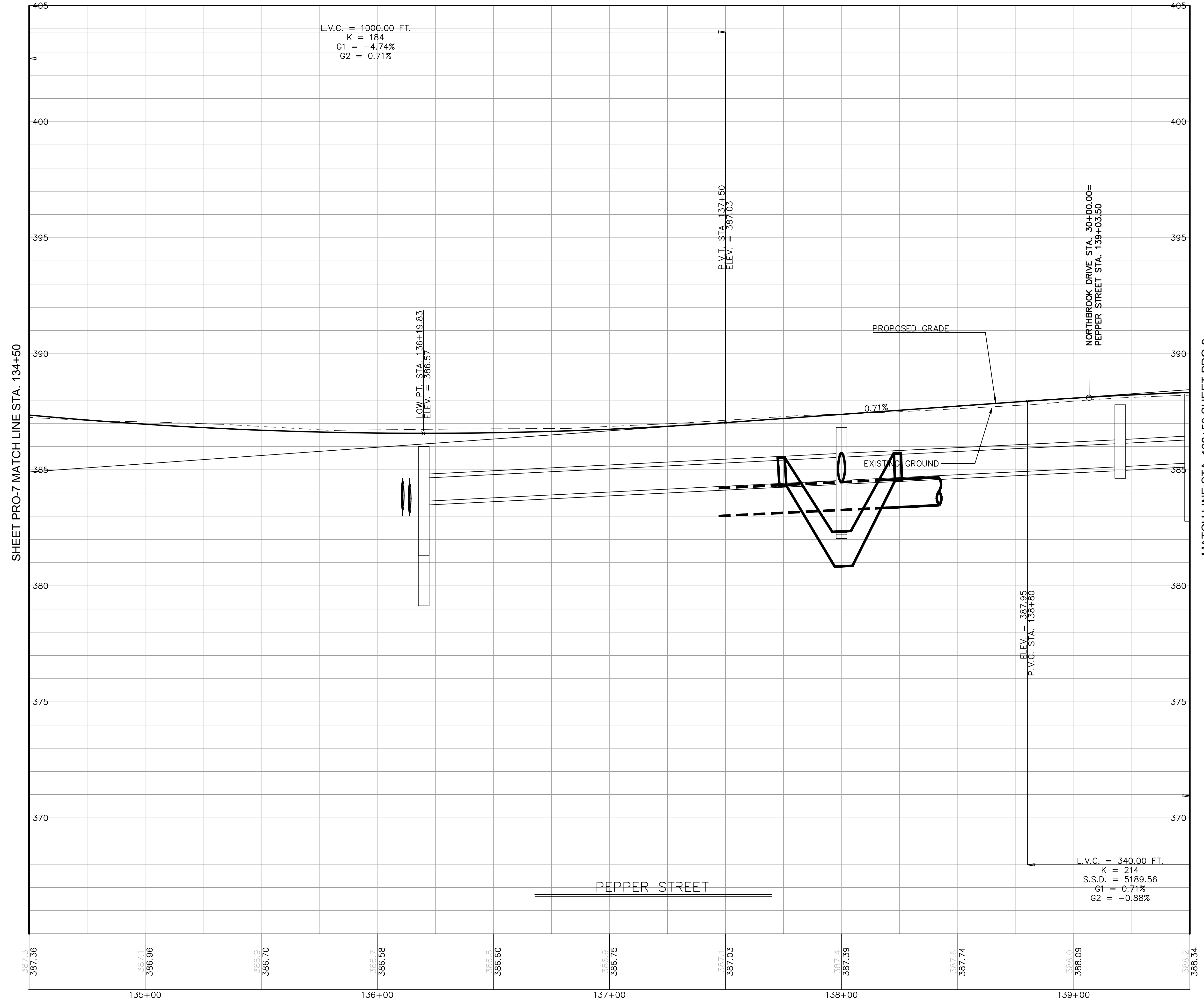
No.	Date	Desc.

Designed O.L.C.
Drawn O.L.C.
Checked B.J.P.
Approved
Scale 1"=20'
Project No. 25037-601
Date 07/07/2016
CAD File: PLANS 1 3 5 8 10 11 12 13
Title **DRAINAGE PLAN**
Sheet No.

AWC-11

ED. G. PROJECTS\LUCHS\PROJECTS\25037_AQUARION\01_MONROE - PEPPER STREET\AWC PLANS\1 3 5 8 10 11 12 13.DWG.AWC-11 24.06.2016

ED. G. PROJECTS\LUCHS\PROJECTS\25037 AQUARION\601 MONROE - PEPPER STREET\AWC PLANS\AWC-PROFILES 2 & 6 B.DWG.AWC-12 PROFILE



ROADWAY RECONSTRUCTION
PEPPER STREET
 MONROE, CONNECTICUT

REVISIONS	Desc.
No.	Date

Designed: O.L.C.
 Drawn: O.L.C.
 Checked: B.J.P.
 Approved: AS NOTED
 Scale: AS NOTED
 Project No.: 25037-601
 Date: 07/07/2016
 CAD File: AWC-PROFILES 2 & 6.g
 Title: ROADWAY PROFILE
 Sheet No.: AWC-12

Xref (p) : B012C432601 ; R12C432601 ; X12C432601 ; B006C2092B01

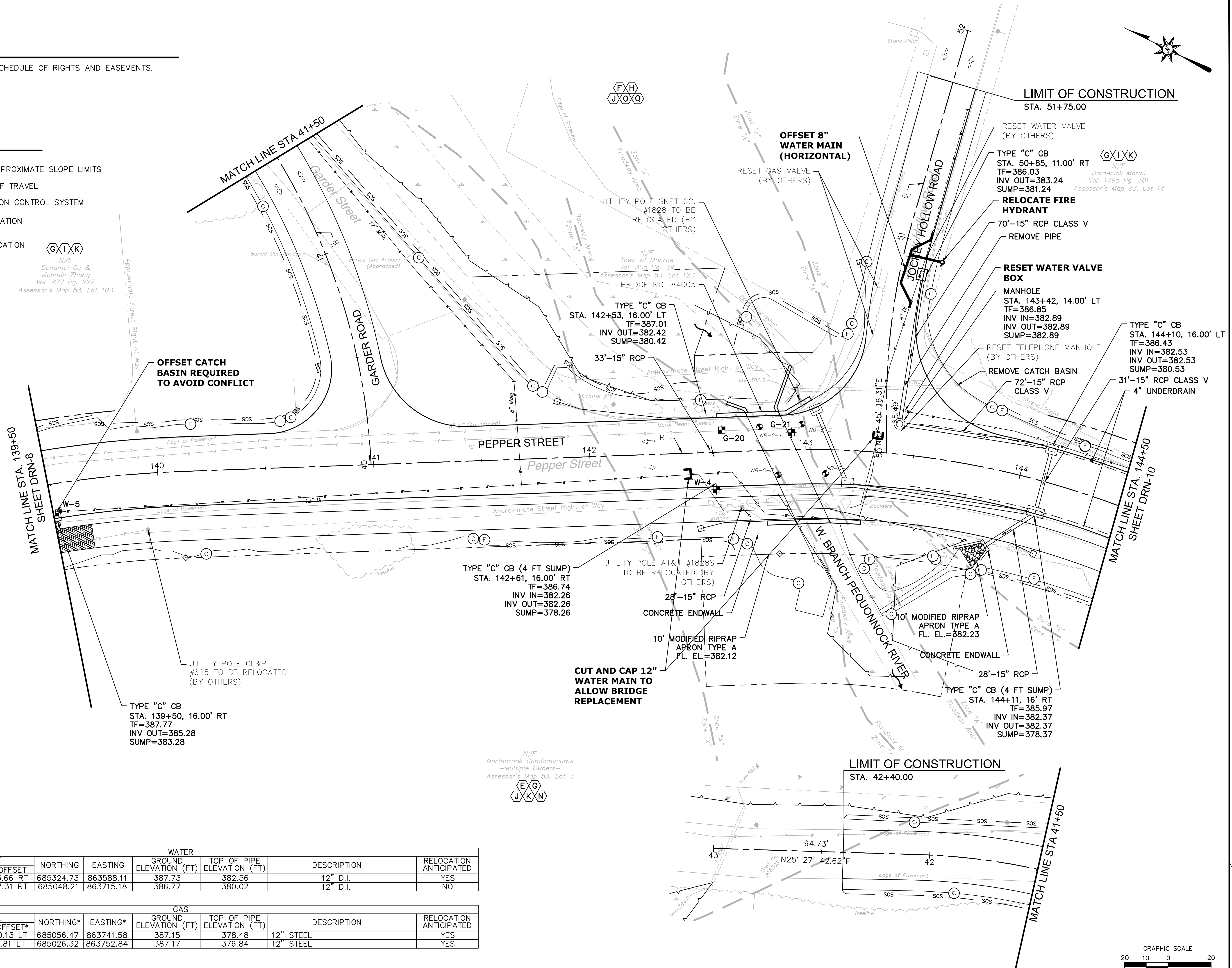
NOTES

- REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.

LEGEND:

- FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION
- TEST PIT LOCATION

G I K
 N/F
 Dongmei Gu &
 Jianmin Zhong
 Vol. 877 Pg. 227
 Assessor's Map 83, Lot 10.1

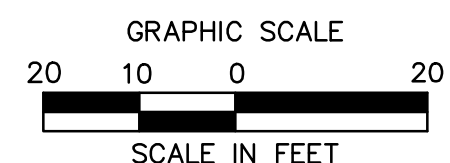


TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-5	139+52	13.66 RT	685324.73	863588.11	387.73	382.56	12" D.I.	YES
W-4	142+58	17.31 RT	685048.21	863715.18	386.77	380.02	12" D.I.	NO

TEST PIT #	BASELINE		NORTHING*	EASTING*	GAS		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
G-20	142+61	10.13 LT	685056.47	863741.58	387.15	378.48	12" STEEL	YES
G-21	142+93	7.81 LT	685026.32	863752.84	387.17	376.84	12" STEEL	YES

*APPROXIMATE LOCATIONS

N/F
 Northbrook Condominiums
 -Multiple Owners-
 Assessor's Map 83, Lot 3
E G
J K N



ROADWAY RECONSTRUCTION
 PEPPER STREET
 MONROE, CONNECTICUT

REVISIONS	No.	Date	Desc.
Designed			O.L.C.
Drawn			O.L.C.
Checked			B.J.P.
Approved			
Scale			1"=20'
Project No.			25037-601
Date			07/07/2016
CAD File:			PLANS 1 3 5 8 10 11 12 13
Title			DRAINAGE PLAN
Sheet No.			

AWC-13

**OFFSET 12" WATER MAIN
18" (MIN.) BELOW STORM
AND TO AVOID CATCH
BASIN**

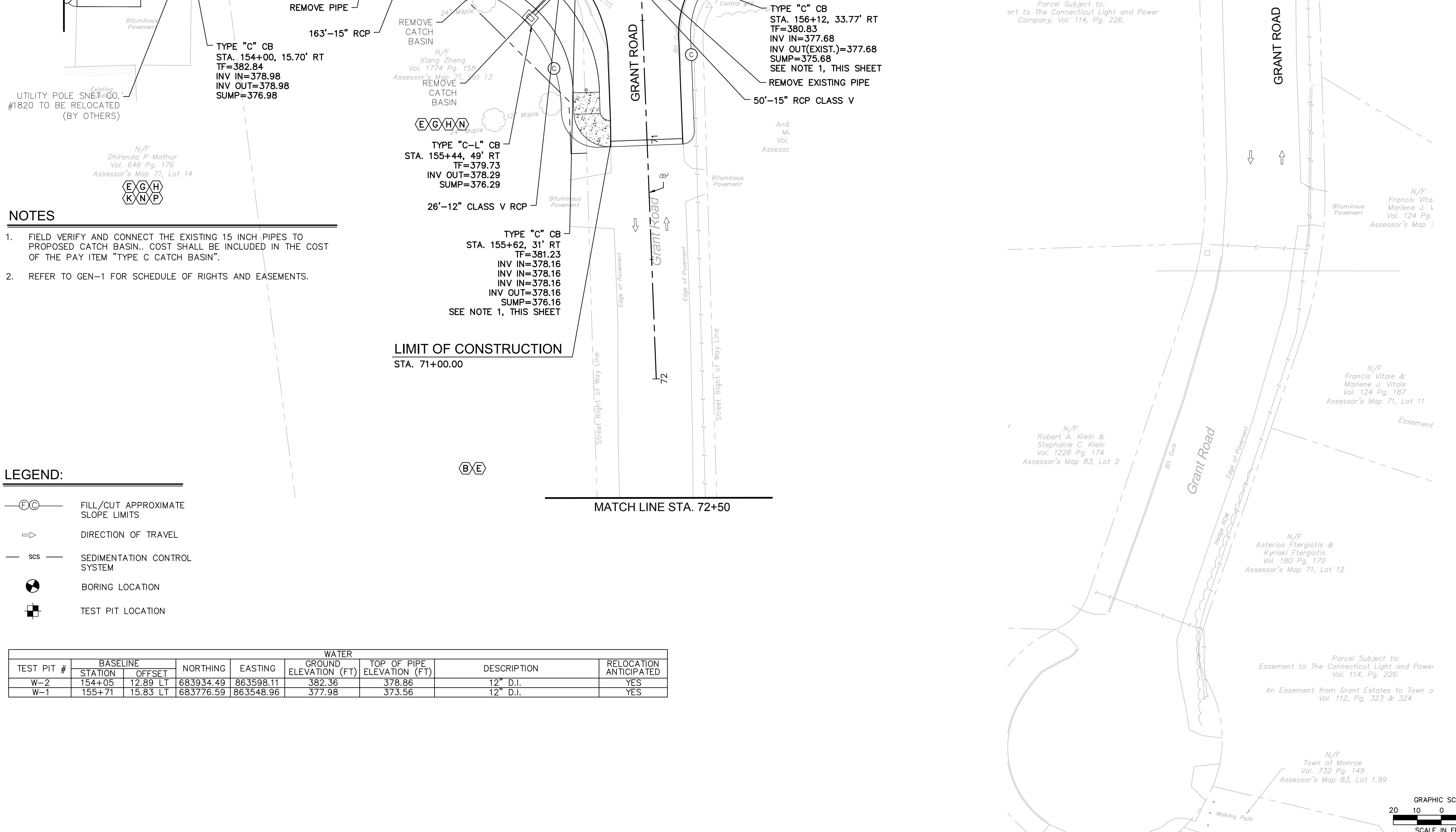
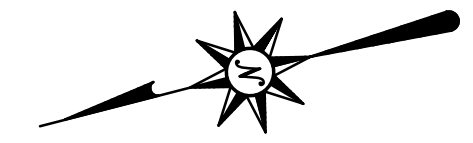
TYPE "C" CB
STA. 154+00, 16.00' LT
TF=382.82
INV OUT=379.13
SUMP=377.13

N/F
Monique H. Iken &
Eric D. Iken
Vol. 1616 Pg. 193
Assessor's Map 71, Lot 19.5

TYPE "C" CB
STA. 155+77, 16.00' LT
TF=381.33
INV OUT=378.62
SUMP=376.62
SEE NOTE 1, THIS SHEET

**OFFSET 12" WATER
MAIN TO AVOID
CATCH BASIN**

MATCH LINE STA. 153+50
SHEET DRN-11

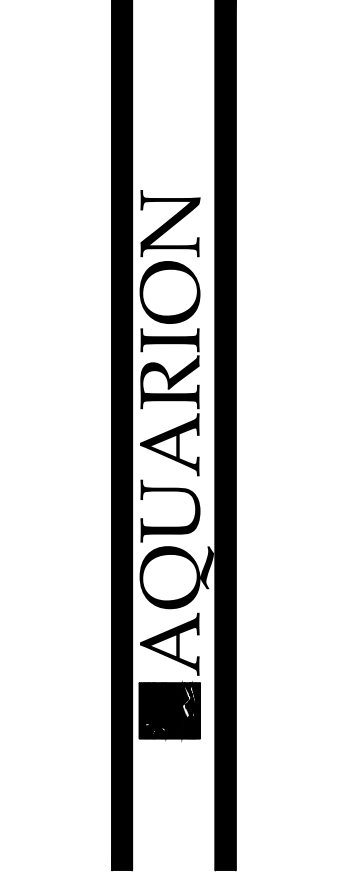
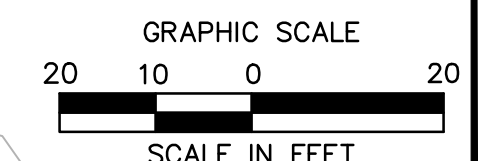


- NOTES**
- FIELD VERIFY AND CONNECT THE EXISTING 15 INCH PIPES TO PROPOSED CATCH BASIN.. COST SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TYPE C CATCH BASIN".
 - REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.

- LEGEND:**
- (FC) FILL/CUT APPROXIMATE SLOPE LIMITS
 - DIRECTION OF TRAVEL
 - scs SEDIMENTATION CONTROL SYSTEM
 - ⊙ BORING LOCATION
 - ⊕ TEST PIT LOCATION

TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-2	154+05	12.89 LT	683934.49	863598.11	382.36	378.86	12" D.I.	YES
W-1	155+71	15.83 LT	683776.59	863548.96	377.98	373.56	12" D.I.	YES

LIMIT OF CONSTRUCTION
STA. 71+00.00



**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

REV/SIONS

No.	Date	Desc.

Designed O.L.C
 Drawn O.L.C
 Checked B.J.P.
 Approved
 Scale 1"=20'
 Project No. 25037-601
 Date 07/07/2016

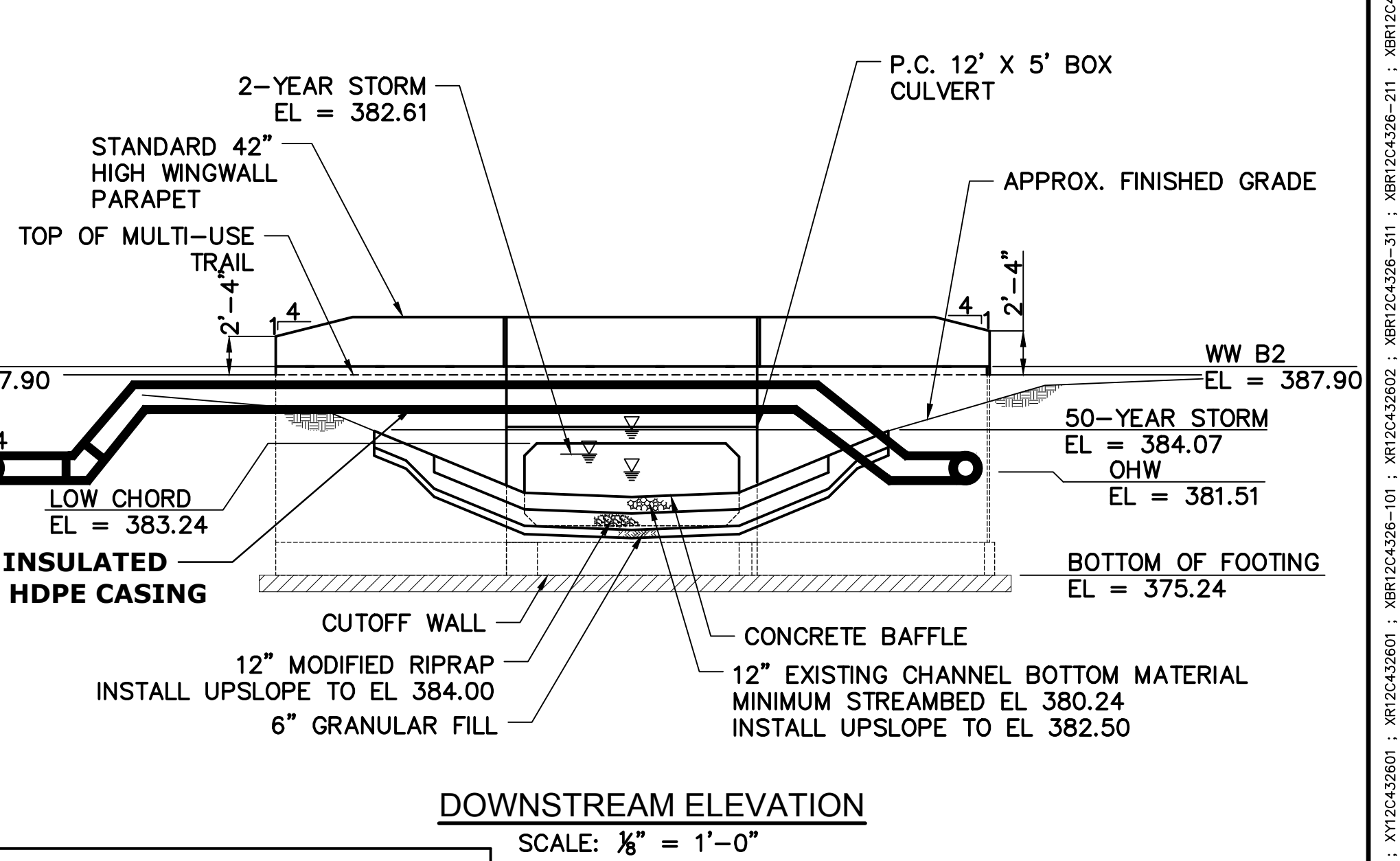
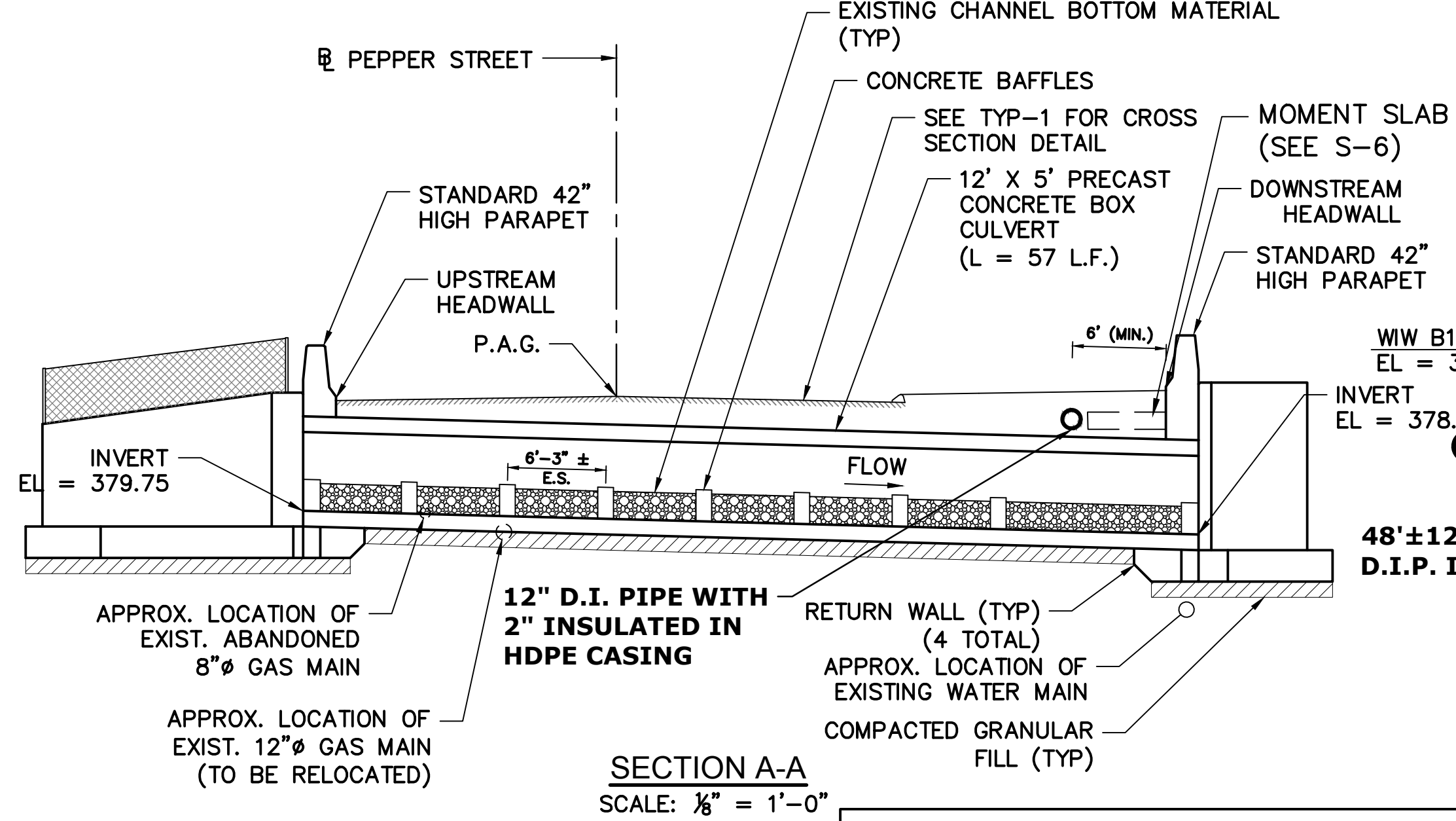
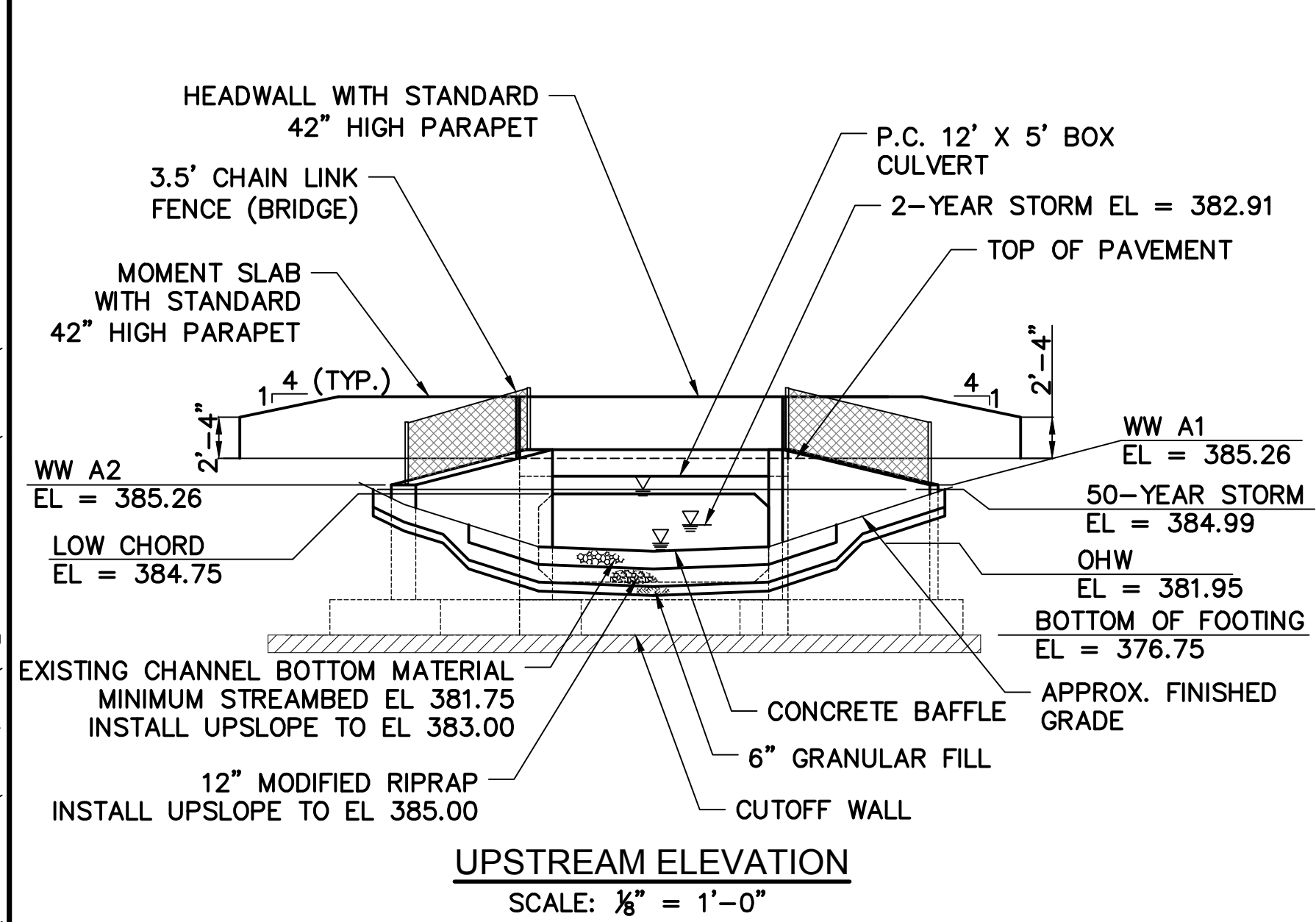
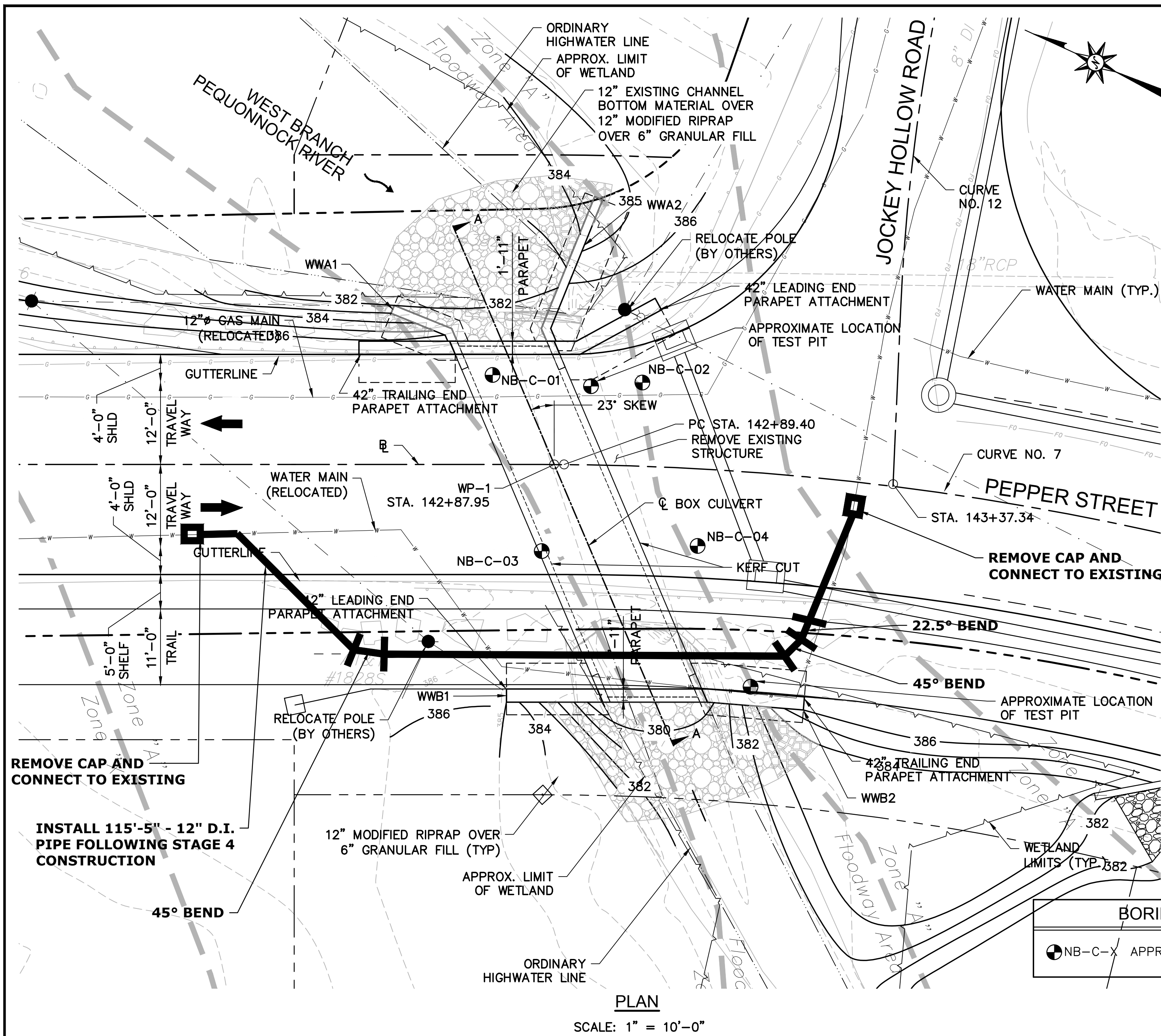
CAD File: PLANS 1 3 5 8 10 11 12 13

Title
DRAINAGE PLAN

Sheet No.

AWC-14

\PROJECTS\LUCHE PROJECTS\25037 AQUARION\01 MONROE - PEPPER STREET\AWC PLANS 1 3 5 8 10 11 12 13.DWG.AWC-14 24.08.2016



TRANSPORTATION DATA				
MEMBER	SHIPPING LENGTH	SHIPPING HEIGHT	SHIPPING WIDTH	SHIPPING WEIGHT
BOX CULVERT	14'-0"	7'-0"	6'-0"	36,000 lbs
WALLS	16'-0"	6'-0"	6'-0"	20,000 lbs

AWC-16.DWG, 0: PROJECTS\LUCHS\PROJECTS\2017\AWC16\AWC16_GENERALPLAN.DWG - PEPPER STREET\AWC PLANS\AWC 16_GENERALPLAN.DWG - 124236 AS NOTED.
 Xref (s): : B0120432601 : X120432601 : X120432602 : XBR1204326-101 : X120432602 : XBR1204326-311 : XBR1204326-211 : XBR1204326-212

No. Date
 Desig. C.A.P.
 Drawn C.A.P.
 Checked
 Approved AS NOTED
 Scale 12/4/2016
 Project No. 12/4/2016
 Date 06/22/2016
 CAD File: AWC 14 GENERALPLAN
 Title
 GENERAL PLAN
 Sheet No.

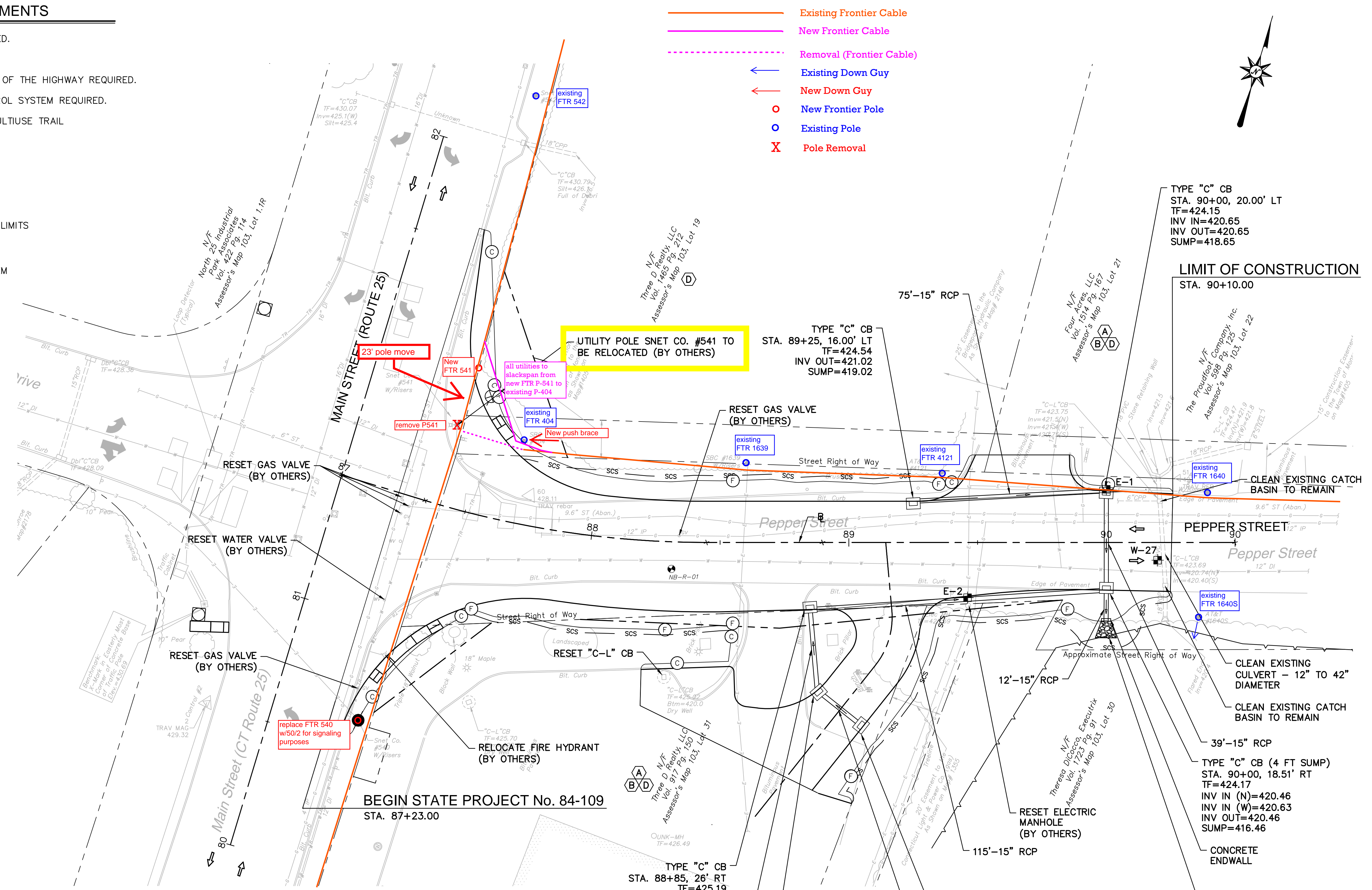
SCHEDULE OF RIGHTS AND EASEMENTS

- (A) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED.
- (B) RIGHT TO GRADE REQUIRED.
- (C) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY REQUIRED.
- (D) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED.
- (E) EASEMENT TO CONTRACT & MAINTAIN MULTIUSE TRAIL
- (F) EASEMENT TO DRAIN REQUIRED.

LEGEND:

- (FC)— FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS — SEDIMENTATION CONTROL SYSTEM
- ⊙ BORING LOCATION
- ⊠ TEST PIT LOCATION

- Existing Frontier Cable
- New Frontier Cable
- - - Removal (Frontier Cable)
- ← Existing Down Guy
- ← New Down Guy
- New Frontier Pole
- Existing Pole
- X Pole Removal



TYPE "C" CB
 STA. 90+00, 20.00' LT
 TF=424.15
 INV IN=420.65
 INV OUT=420.65
 SUMP=418.65

LIMIT OF CONSTRUCTION
 STA. 90+10.00

TYPE "C" CB
 STA. 89+25, 16.00' LT
 TF=424.54
 INV OUT=421.02
 SUMP=419.02

CLEAN EXISTING CATCH BASIN TO REMAIN

CLEAN EXISTING CULVERT - 12" TO 42" DIAMETER

CLEAN EXISTING CATCH BASIN TO REMAIN

39'-15" RCP
 TYPE "C" CB (4 FT SUMP)
 STA. 90+00, 18.51' RT
 TF=424.17
 INV IN (N)=420.46
 INV IN (W)=420.63
 INV OUT=420.46
 SUMP=416.46

6.5' MODIFIED RIPRAP APRON TYPE A
 FL. EL.= 420.40

TYPE "C" CB
 STA. 88+85, 26' RT
 TF=425.19
 INV IN=421.20
 INV OUT=421.20
 SUMP=419.20

TYPE "C" CB*
 STA. 200+71, 11.00' LT
 TF=424.07
 INV OUT=421.48
 SUMP=419.48

TYPE "C" CB*
 STA. 200+71, 11.59' RT
 TF=424.07
 INV IN=421.36
 INV OUT=421.36
 SUMP=419.36

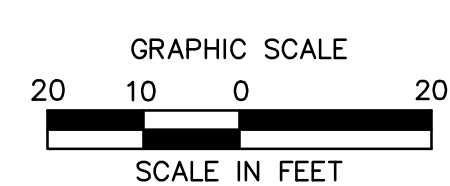
TEST PIT #	BASELINE		NORTHING*	EASTING*	ELECTRIC		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
E-1	90+00	20.67 LT	688295.23	860245.50	424.18	421.58	2 X 4" CONDUIT	YES
E-2	89+46	21.45 RT	688233.41	860216.53	425.20	423.00	4" CONDUIT	YES

*APPROXIMATE LOCATIONS

TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-27	90+20	6.87 RT	688279.63	860275.68	423.91	420.33	12" D.I.	YES

Frontier requires final grade to be within 1' before poles/anchors are set.
 Frontier requires necessary road markings (edge of curb, sidewalk etc) to be marked in field prior to pole/anchor placement
 These plans are based on plans provided. Actual conditions may require changes to proposed changes and work schedule.

* TO BE MAINTAINED BY PROPERTY OWNER



ARCHITECTURE
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 LAND SURVEYING

355 Research Parkway
 Meriden, CT 06450
 (203) 630-1406
 (203) 630-2615 Fax

ROADWAY RECONSTRUCTION
 PEPPER STREET
 MONROE, CONNECTICUT

DESIGNED	O.L.C
Drawn	O.L.C
Checked	B.J.P.
Approved	
Scale	1"=20'
Project No.	12C4326
Date	03/25/16

CAD File: TDRN12C432601
 Title: DRAINAGE PLAN

Sheet No. DRN-1

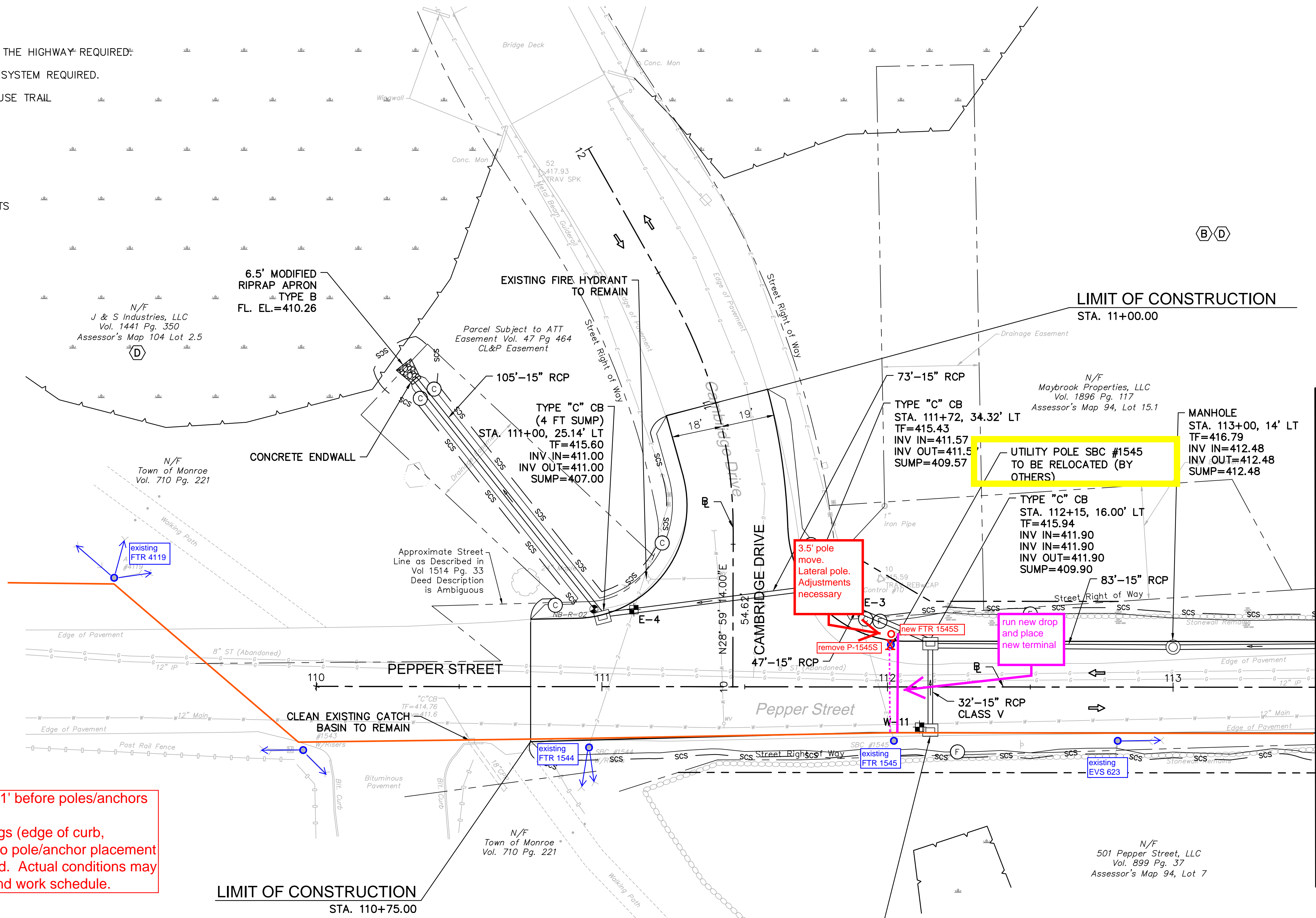
3/7/2016, Q:\ASTRANO, G., \08512\12C4326\DWG\TDRN-01_24236_205C

SCHEDULE OF RIGHTS AND EASEMENTS

- (A) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED.
- (B) RIGHT TO GRADE REQUIRED.
- (C) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY* REQUIRED.
- (D) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED.
- (E) EASEMENT TO CONSTRUCT & MAINTAIN MULTIUSE TRAIL
- (F) EASEMENT TO DRAIN REQUIRED.

LEGEND:

- (C)— FILL/CUT APPROXIMATE SLOPE LIMITS
- ⇒ DIRECTION OF TRAVEL
- scs— SEDIMENTATION CONTROL SYSTEM
- TEST PIT LOCATION

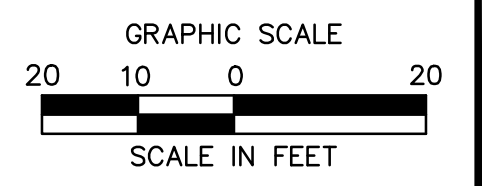


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TEST PIT #	BASELINE		NORTHING*	EASTING*	ELECTRIC		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
E-3	111+90	26.75 LT	687548.82	862001.76	415.50	413.25	3 X 4" CONDUIT; 3 X 6" CONDUIT	YES
E-4	111+11	27.00 LT	687587.02	861959.94	415.28	413.38	2 X 6" CONDUIT	NO

*APPROXIMATE LOCATIONS

TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-11	112+11	14.08 RT	687502.69	862027.81	415.88	411.30	12" D.I.	YES



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ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS	No.	Date	Desc.

Designed: O.L.C.
Drawn: O.L.C.
Checked: B.J.P.
Approved: B.J.P.
Scale: 1"=20'
Project No: 12C4326
Date: 03/25/16
CAD File: TDRN12C432601

Title: DRAINAGE PLAN
Sheet No. DRN-2

3/8/2016, Q:\ASTRANO, G., \B512\12C4326\DWG\TDRN12C432601.DWG, TDRN-02, 24x36, 205C

SCHEDULE OF RIGHTS AND EASEMENTS

- (A) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED.
- (B) RIGHT TO GRADE REQUIRED.
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- (F) EASEMENT TO DRAIN REQUIRED.

LEGEND:

- (F)(C)— FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS — SEDIMENTATION CONTROL SYSTEM
- ⊙ BORING LOCATION
- ⊕ TEST PIT LOCATION

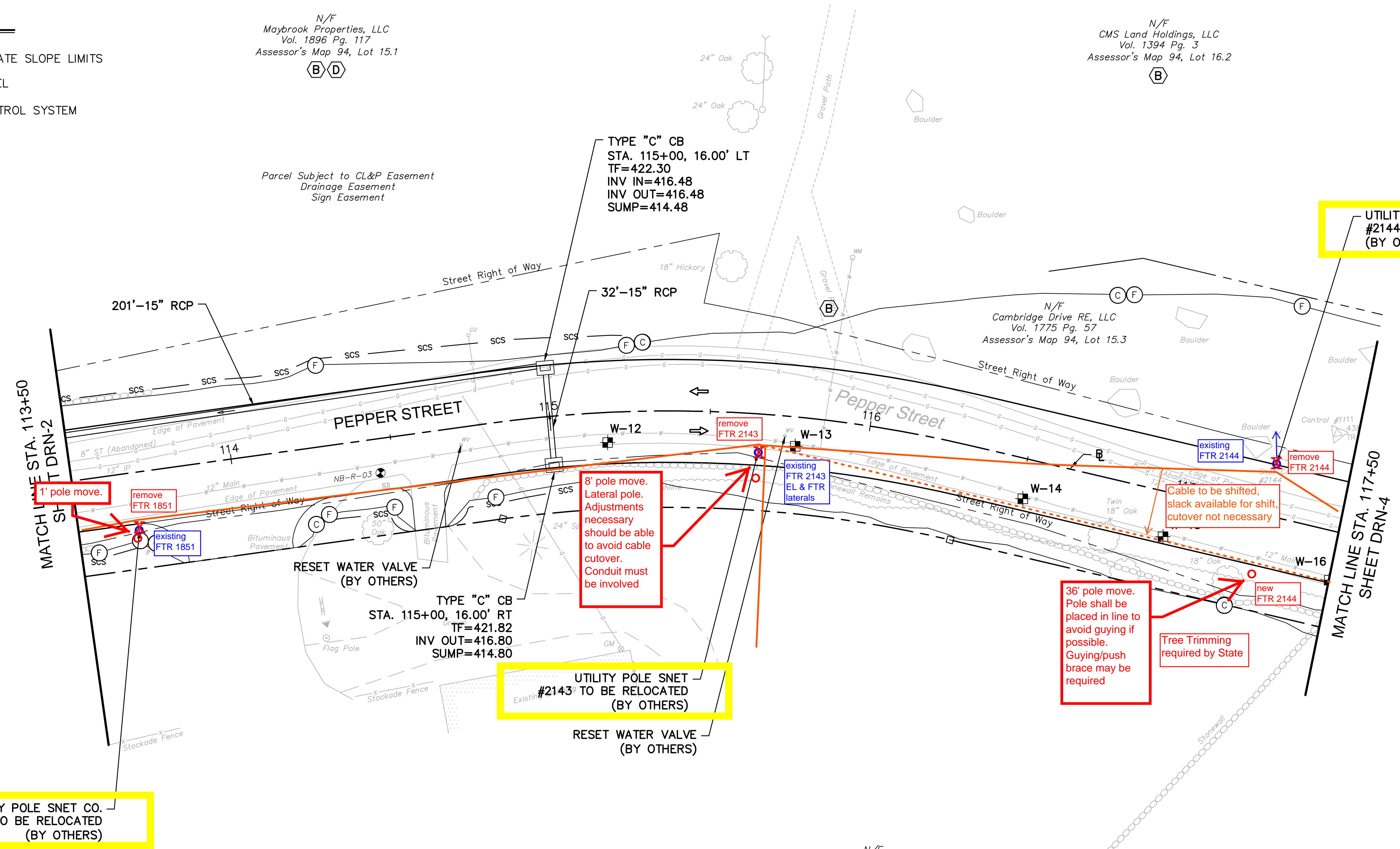
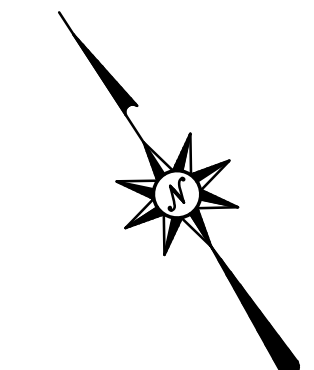
N/F
Maybrook Properties, LLC
Vol. 1896 Pg. 117
Assessor's Map 94, Lot 15.1
(B)(D)

Parcel Subject to CL&P Easement
Drainage Easement
Sign Easement

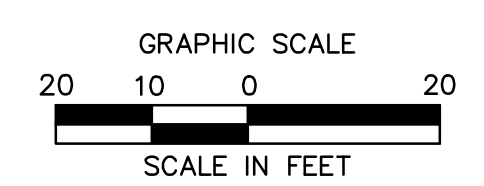
N/F
CMS Land Holdings, LLC
Vol. 1394 Pg. 3
Assessor's Map 94, Lot 16.2
(B)

N/F
501 Pepper Street, LLC
Vol. 899 Pg. 37
Assessor's Map 94, Lot 7
(A)(B)(D)

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TEST PIT #	BASELINE		WATER				DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET	NORTHING	EASTING	GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-12	115+18	9.36 RT	687357.75	862296.81	422.11	417.36	12" D.I.	YES
W-13	115+77	9.11 RT	687321.87	862342.84	427.09	422.76	12" D.I.	YES
W-14	116+51	12.34 RT	687266.42	862389.79	432.18	427.85	12" D.I.	YES
W-15	116+97	13.81 RT	687230.88	862417.65	434.61	430.28	12" D.I.	YES



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(203) 630-2615 Fax

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

REVISIONS	No.	Date	Desc.

Designed O.L.C.
Drawn O.L.C.
Checked B.J.P.
Approved
Scale 1"=20'
Project No. 12C4326
Date 03/25/16
CAD File: TDRN12C432601

Title
DRAINAGE PLAN
Sheet No.
DRN-3

3/7/2016, QMASTRANO, G., V0851212C12C432601.DWG, TDRN-03, 24x36, 205C.
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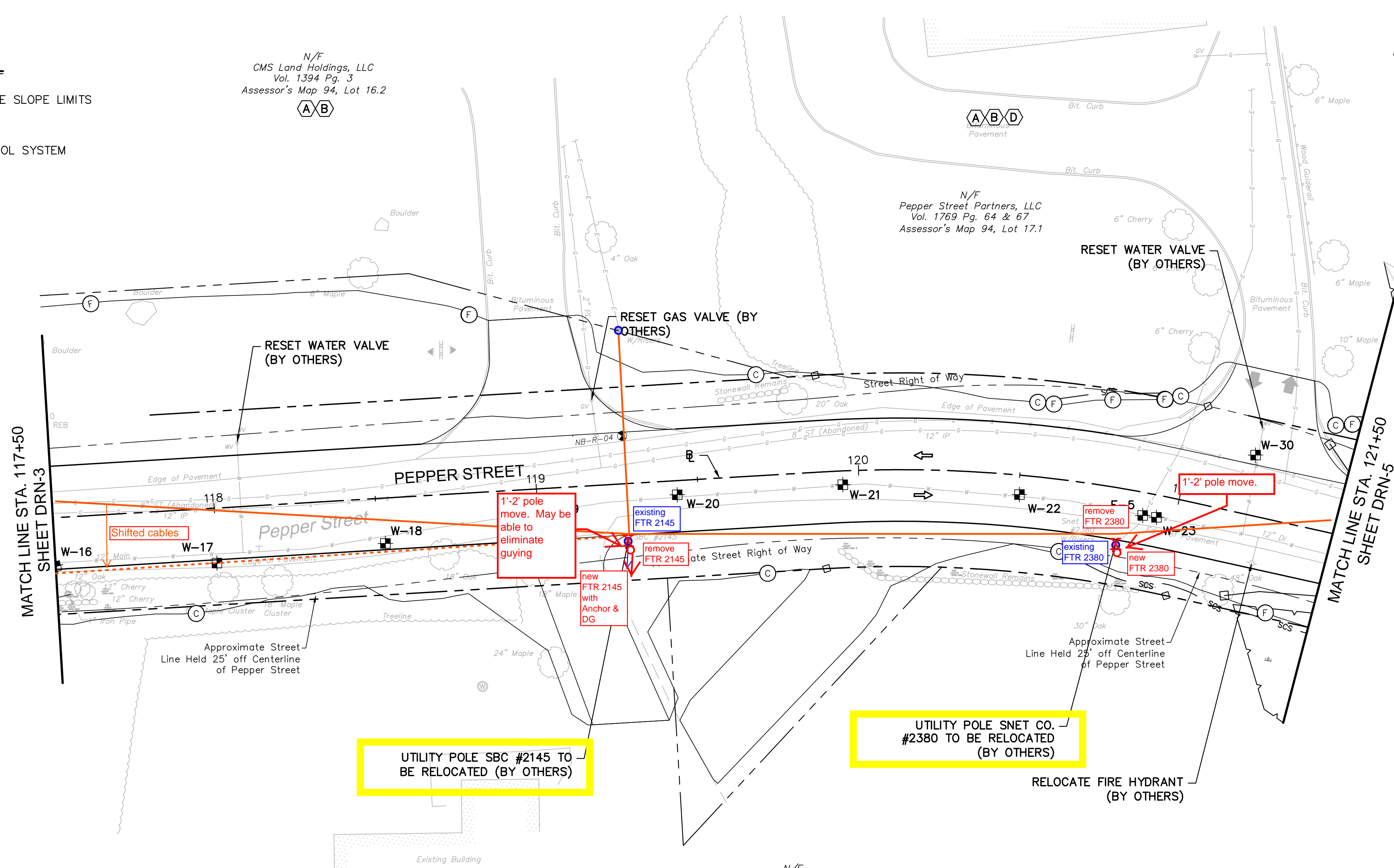
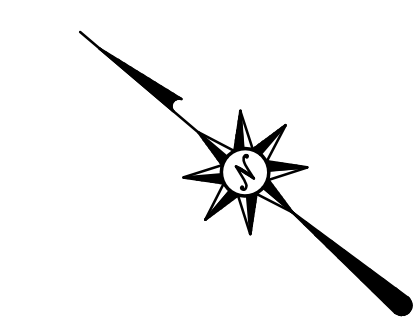
SCHEDULE OF RIGHTS AND EASEMENTS

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- (B) RIGHT TO GRADE REQUIRED.
- (C) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY REQUIRED.
- (D) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED.
- (E) EASEMENT TO CONTRUCT & MAINTAIN MULTIUSE TRAIL
- (F) EASEMENT TO DRAIN REQUIRED.

LEGEND:

- (FC) FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS SEDIMENTATION CONTROL SYSTEM
- ⊙ BORING LOCATION
- ⊕ TEST PIT LOCATION

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N/F
CMS Land Holdings, LLC
Vol. 1394 Pg. 3
Assessor's Map 94, Lot 16.2
(A)(B)

N/F
Pepper Street Partners, LLC
Vol. 1769 Pg. 64 & 67
Assessor's Map 94, Lot 17.1
(A)(B)(D)

N/F
P & M Realty, Inc.
Vol. 228 Pg. 37
Assessor's Map 94, Lot 18
(A)(B)(C)(D)

UTILITY POLE SBC #2145 TO BE RELOCATED (BY OTHERS)

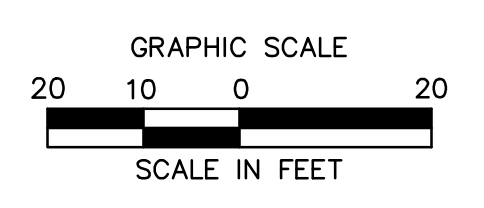
UTILITY POLE SNET CO. #2380 TO BE RELOCATED (BY OTHERS)

N/F
Doris Rose, Roberta A. Cummings,
Norma P. Davis, Glen N. Davis,
Deborah D. Andrasko
Vol. 1659 Pg. 117
Assessor's Map 94, Lot 6
(A)(B)(D)(F)

TEST PIT #	BASELINE		NORTHING*	EASTING*	ELECTRIC		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
E-5	120+89	7.00 RT	686927.98	862664.44	421.82	418.98	2 X 4" CONDUIT; 6" CONDUIT	NO

*APPROXIMATE LOCATIONS

TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-16	117+50	15.14 RT	687189.10	862450.94	436.73	432.40	12" D.I.	YES
W-17	118+00	17.04 RT	687149.65	862481.53	436.31	431.89	12" D.I.	YES
W-18	118+52	14.05 RT	687111.36	862517.52	435.47	430.22	12" D.I.	YES
W-19	119+00	8.96 RT	687077.91	862552.20	434.32	428.57	12" D.I.	YES
W-20	119+44	4.38 RT	687047.70	862583.49	432.04	426.12	12" D.I.	YES
W-21	119+95	4.27 RT	687008.35	862616.55	427.93	422.68	12" D.I.	NO
W-22	120+50	13.81 RT	686962.56	862646.69	423.70	416.70	12" D.I.	NO
W-23	120+94	6.85 RT	686924.25	862666.30	421.28	416.20	12" D.I.	NO
W-30	121+20	18.58 LT	686911.07	862100.10	420.40	414.90	12" D.I.	NO



355 Research Parkway
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ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

No. _____
 Date _____
 Desig. _____
 Drawn _____
 Checked _____
 Approved _____
 Scale 1"=20'
 Project No. 12C4326
 Date 03/25/16
 CAD File: TDRN12C432601

Title
DRAINAGE PLAN
 Sheet No.
DRN-4

3/7/2016, Q:\ASTRANO, G. \AR512\12C4326\DWG\TDRN12C432601.DWG, TDRN-04, 24x36, 205C.

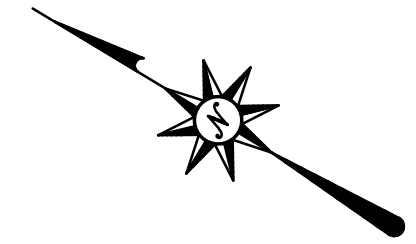
SCHEDULE OF RIGHTS AND EASEMENTS

- (A) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED.
- (B) RIGHT TO GRADE REQUIRED.
- (C) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY REQUIRED.
- (D) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED.
- (E) EASEMENT TO CONSTRUCT & MAINTAIN MULTIUSE TRAIL
- (F) EASEMENT TO DRAIN REQUIRED.

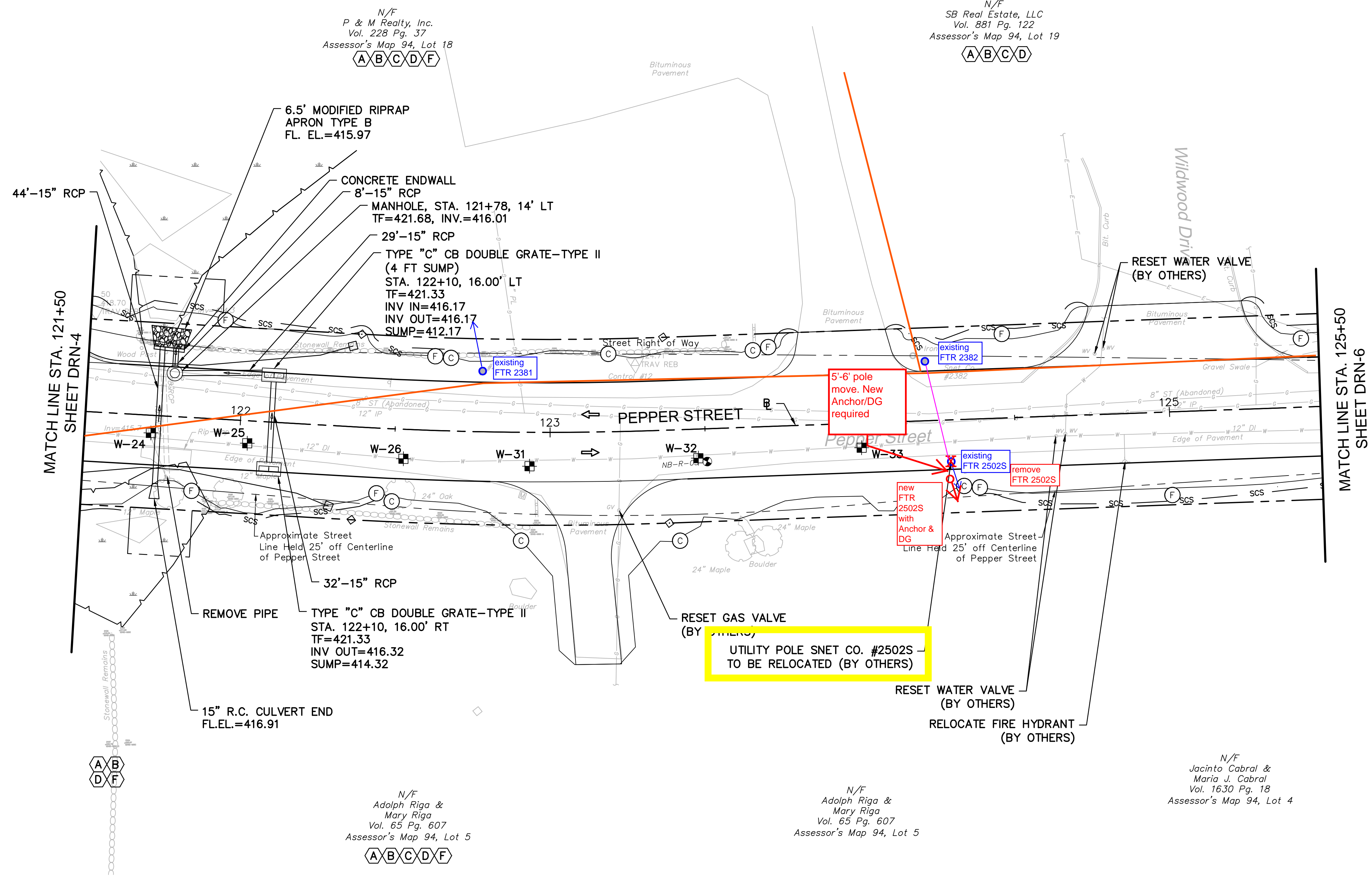
LEGEND:

- (C)— FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS — SEDIMENTATION CONTROL SYSTEM
- ⊙ BORING LOCATION
- ⊕ TEST PIT LOCATION

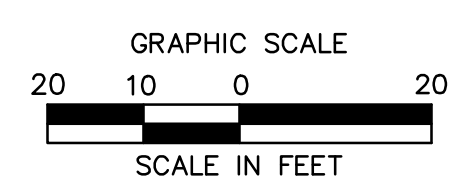
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355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax



TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-24	121+71	5.70 RT	686854.40	862698.78	420.35	414.35	12" D.I.	NO
W-25	122+03	7.25 RT	686825.23	862710.08	420.62	414.37	12" D.I.	NO
W-26	122+53	9.50 RT	686778.15	862728.73	421.69	413.44	12" D.I.	NO
W-31	122+93	10.93 RT	686740.88	862745.26	423.44	413.61	MAIN NOT FOUND	
W-32	123+48	9.39 RT	686693.65	862772.56	423.32	N/A	NOT TESTED	
W-33	124+00	7.93 RT	686648.37	862799.72	419.77	414.27	MAIN NOT FOUND	



ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS	No.	Date	Desc.

Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	1"=20'
Project No.	12C4326
Date	03/25/16
CAD File:	TDRN12C432601
Title	DRAINAGE PLAN
Sheet No.	

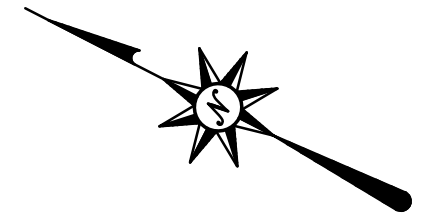
DRN-5

3/7/2016, Q:\ASTRANO, G. \BOS12\12C4326\DWG\TDRN12C432601.DWG, TDRN-05, 24x36, 205C.

SCHEDULE OF RIGHTS AND EASEMENTS

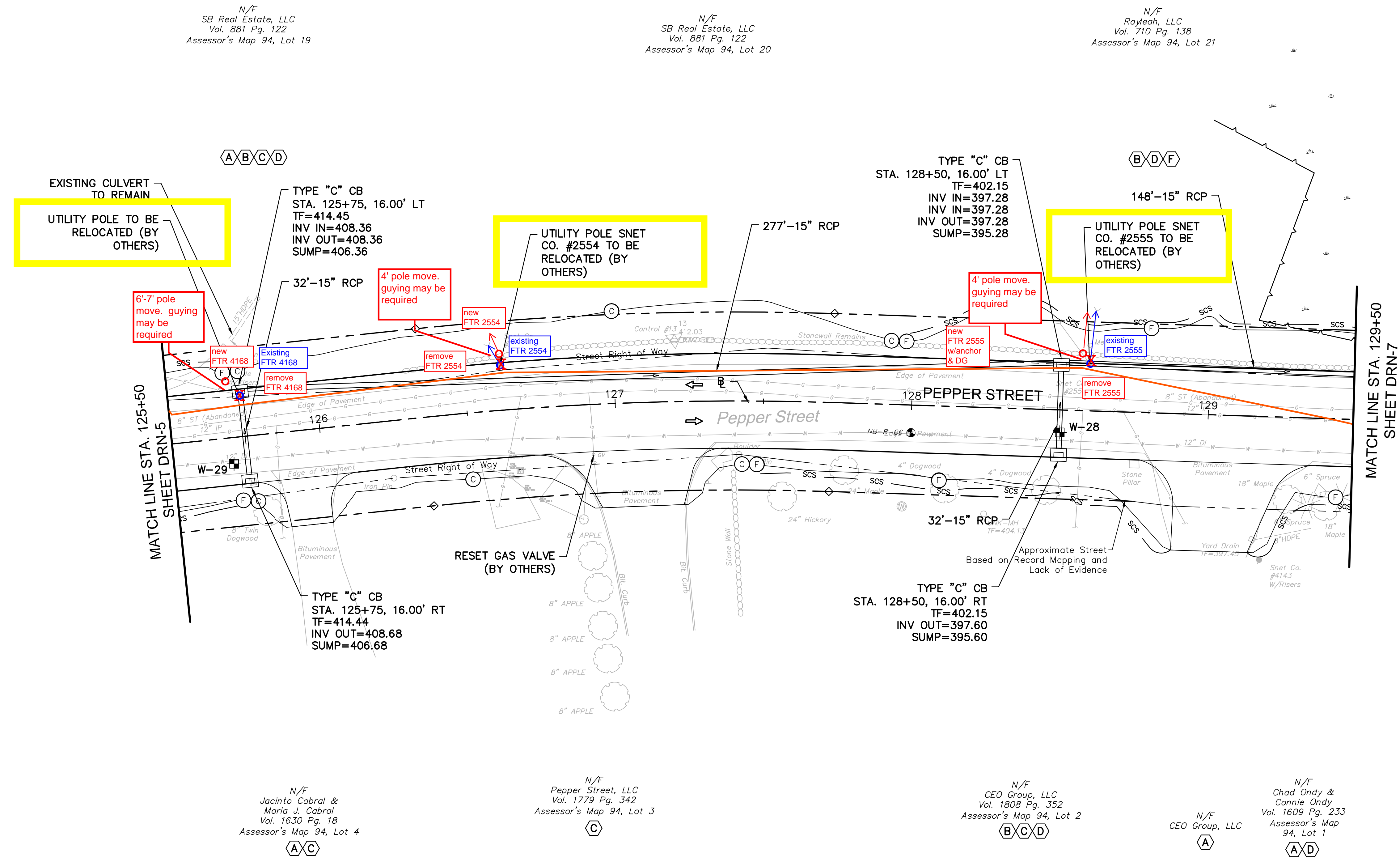
- (A) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED.
- (B) RIGHT TO GRADE REQUIRED.
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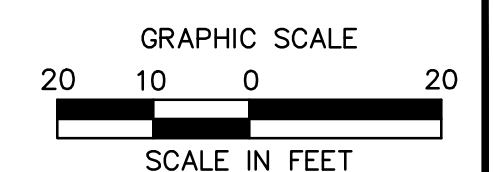


LEGEND:

- (C)— FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- scs — SEDIMENTATION CONTROL SYSTEM
- ⊙ BORING LOCATION
- ⊕ TEST PIT LOCATION



TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-29	125+70	8.85 RT	686500.01	862882.19	415.10	408.02	12" D.I.	NO
W-28	128+50	7.57 RT	686248.66	863002.24	399.80	392.97	12" D.I.	NO



355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

No. Date
 REVISIONS
 Desc.
 Designed O.L.C.
 Drawn O.L.C.
 Checked B.J.P.
 Approved
 Scale 1"=20'
 Project No. 12C4326
 Date 03/25/16
 CAD File: TDRN12C432601
 Title
DRAINAGE PLAN
 Sheet No.
DRN-6

3/7/2016, Q:\ASTRANO, G., \BIBS\12C4326\DWG\TDRN12C432601.DWG, TDRN-06, 24x36, 205C.

SCHEDULE OF RIGHTS AND EASEMENTS

- (A) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED.
- (B) RIGHT TO GRADE REQUIRED.
- (C) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY REQUIRED.
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- (F) EASEMENT TO DRAIN REQUIRED.

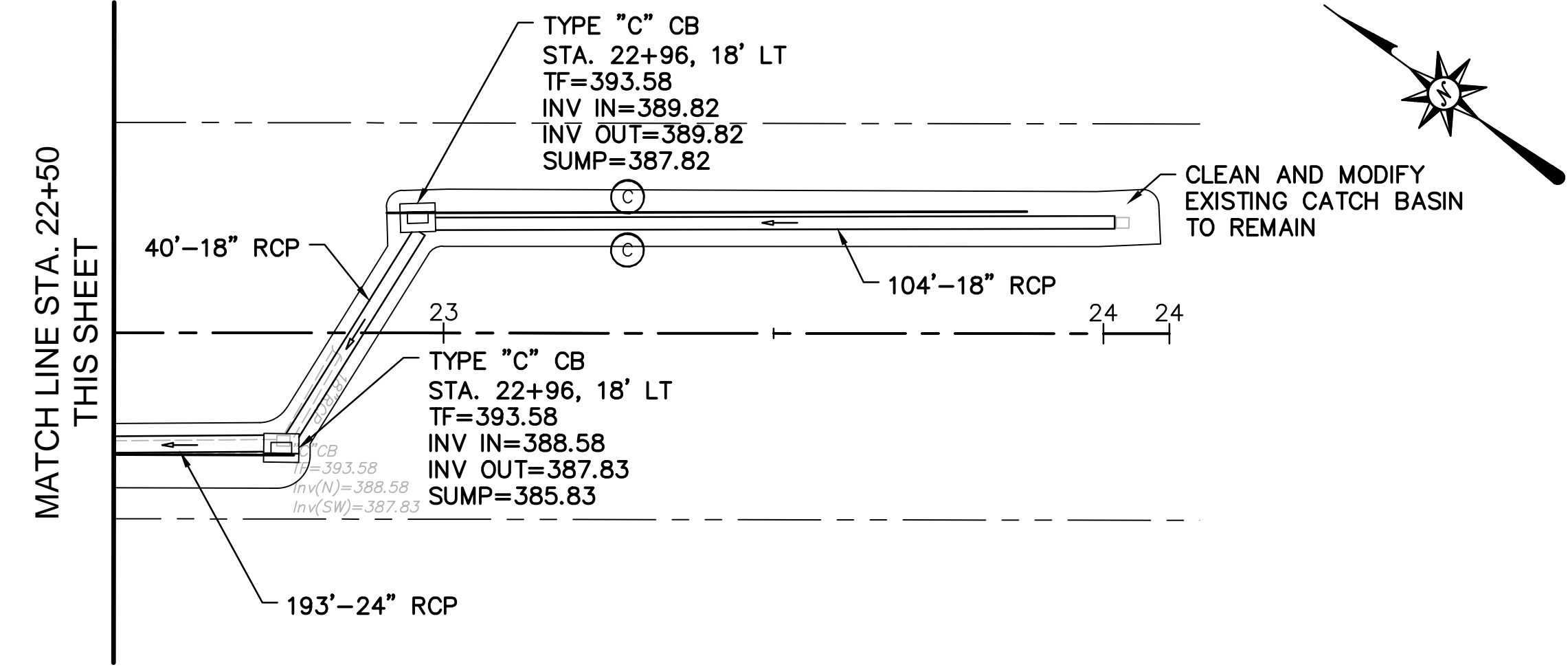
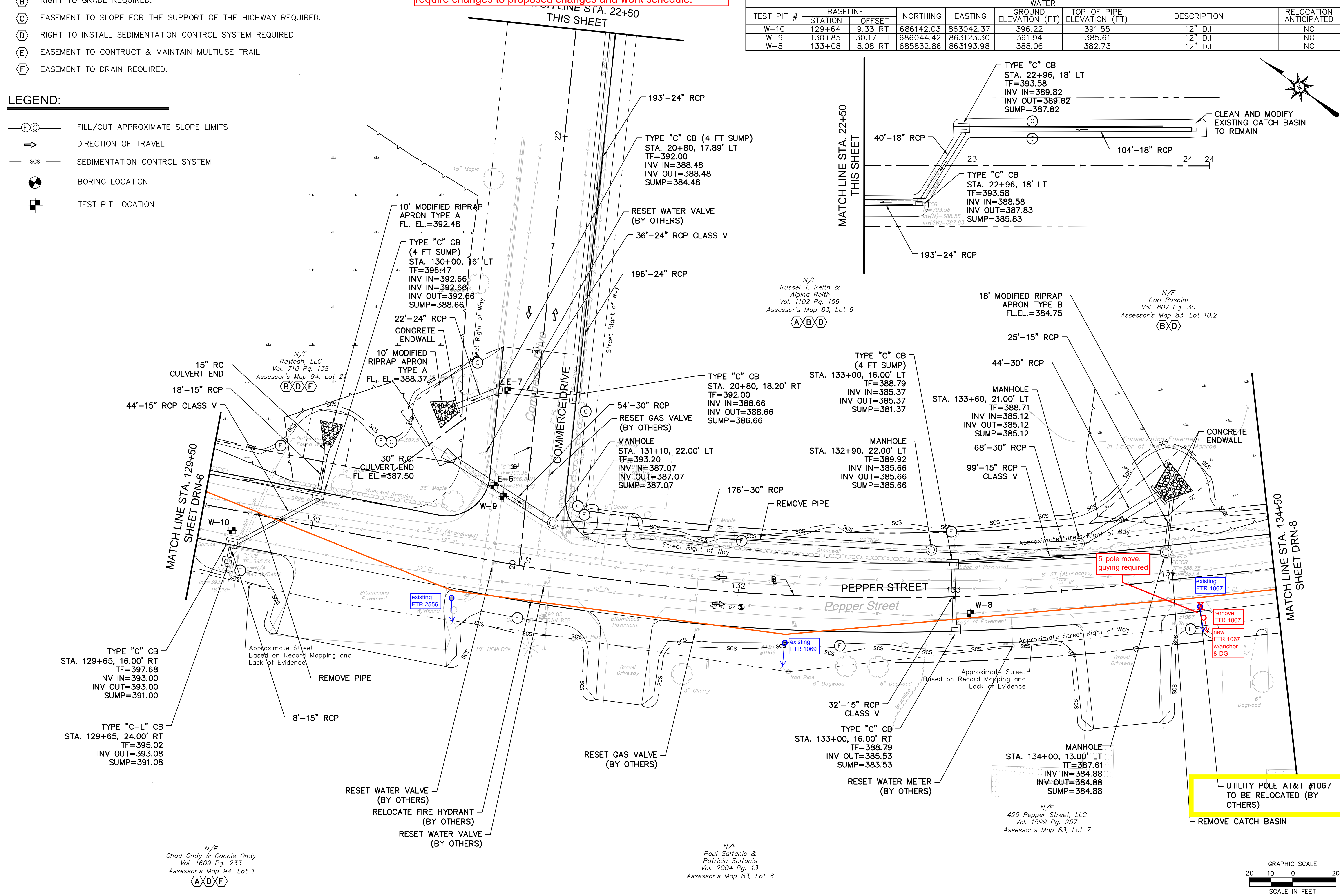
LEGEND:

- ⊖ ⊕ FILL/CUT APPROXIMATE SLOPE LIMITS
- ⇒ DIRECTION OF TRAVEL
- scs — SEDIMENTATION CONTROL SYSTEM
- ⊙ BORING LOCATION
- ⊠ TEST PIT LOCATION

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TEST PIT #	BASELINE		NORTHING*	EASTING*	ELECTRIC		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
E-6	130+79	34.34 LT	686051.00	863125.15	391.45	389.40	2" CONDUIT; 5" CONDUIT; DIRECT BURY (1 FT DEEP)	NO
E-7	130+77	78.67 LT	686069.41	863165.55	392.25	389.33	6" PIPE; DIRECT BURY (1 FT DEEP)	YES

TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-10	129+64	9.33 RT	686142.03	863042.37	396.22	391.55	12" D.I.	NO
W-9	130+85	30.17 LT	686044.42	863123.30	391.94	385.61	12" D.I.	NO
W-8	133+08	8.08 RT	685832.86	863193.98	388.06	382.73	12" D.I.	NO



UTILITY POLE AT&T #1067 TO BE RELOCATED (BY OTHERS)



ARCHITECTURE
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355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

DESIGNED: O.L.C.
DRAWN: O.L.C.
CHECKED: B.J.P.
APPROVED: 1"=20'
PROJECT NO: 12C4326
DATE: 03/25/16
CAD FILE: TDRN12C432601

TITLE: DRAINAGE PLAN

SHEET NO: DRN-7

3/7/2016, Q:\STRANNO, G. \BOS12\12C4326\DWG\TDRN12C432601.DWG, TDRN-07, 24X36, 205C.

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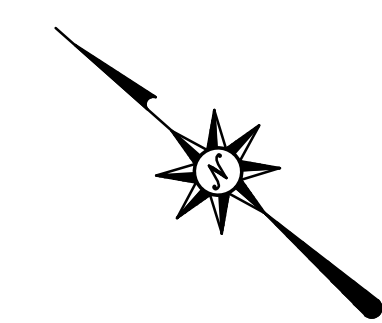
SCHEDULE OF RIGHTS AND EASEMENTS

- (A) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED.
- (B) RIGHT TO GRADE REQUIRED.
- (C) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY REQUIRED Vol. 807 Pg. 30
- (D) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED.
- (E) EASEMENT TO CONTRACT & MAINTAIN MULTIUSE TRAIL
- (F) EASEMENT TO DRAIN REQUIRED.

N/F
Carl Ruspini
in Favor of
Assessor's Map 83, Lot 10.2

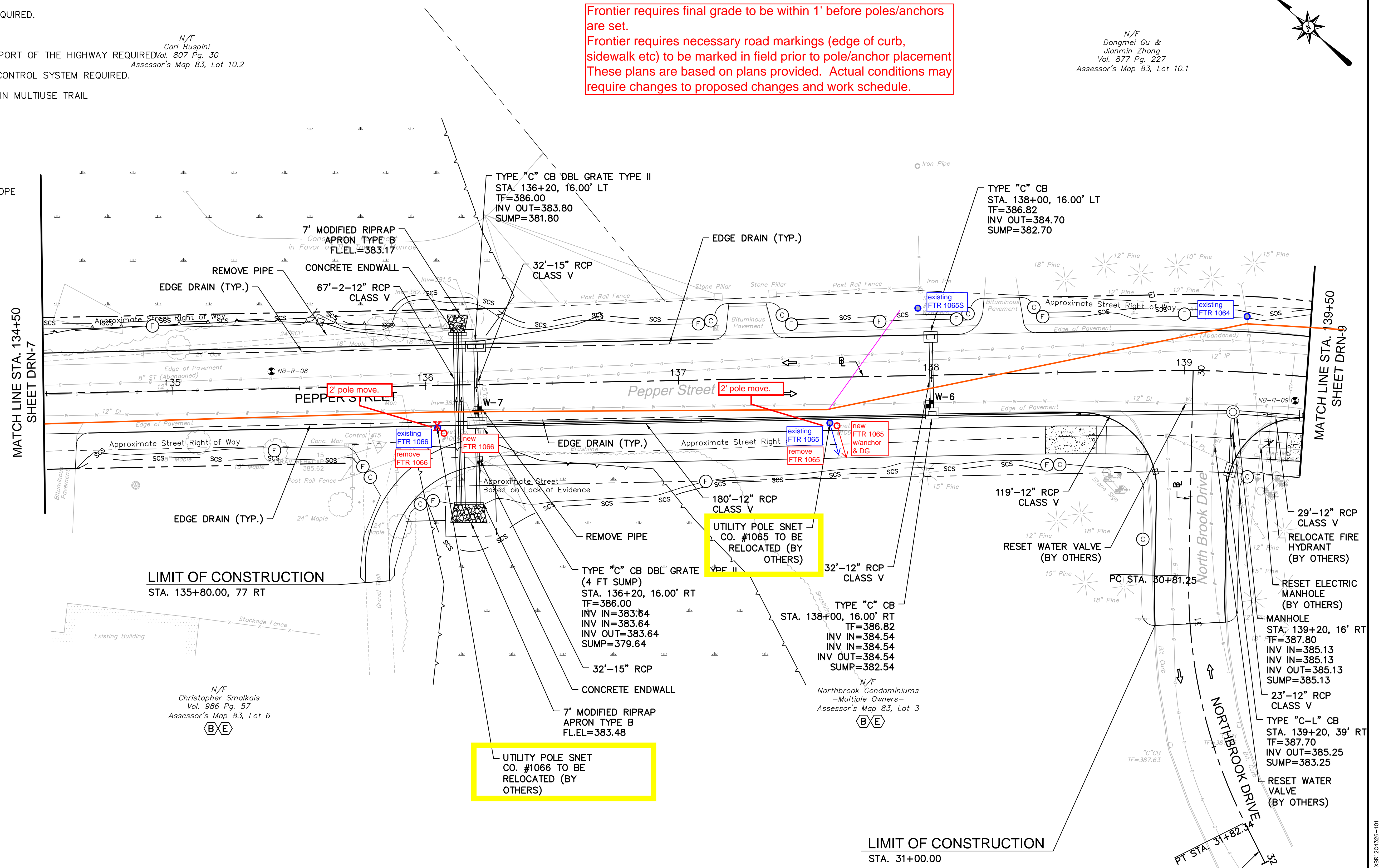
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N/F
Dongmei Gu &
Jianmin Zhong
Vol. 877 Pg. 227
Assessor's Map 83, Lot 10.1



LEGEND:

- (FC) FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS SEDIMENTATION CONTROL SYSTEM
- ⊙ BORING LOCATION
- ⊕ TEST PIT LOCATION



TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-7	136+20	10.21 RT	685585.90	863386.97	386.33	382.00	12" D.I.	NO
W-6	137+99	11.39 RT	685446.06	863498.25	386.99	382.32	12" D.I.	NO



ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING

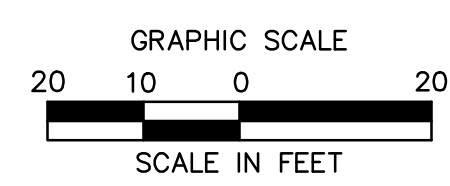
355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS	No.	Date	Desc.

Designed: O.L.C.
Drawn: O.L.C.
Checked: B.J.P.
Approved: _____
Scale: 1"=20'
Project No: 12C4326
Date: 03/25/16
CAD File: TDRN12C432601

Title: DRAINAGE PLAN
Sheet No. DRN-8



3/7/2016, Q:\STRANS, G:\B512\12C4326\DWG\TDRN12C432601.DWG, TDRN-08, 24x36, 205C.

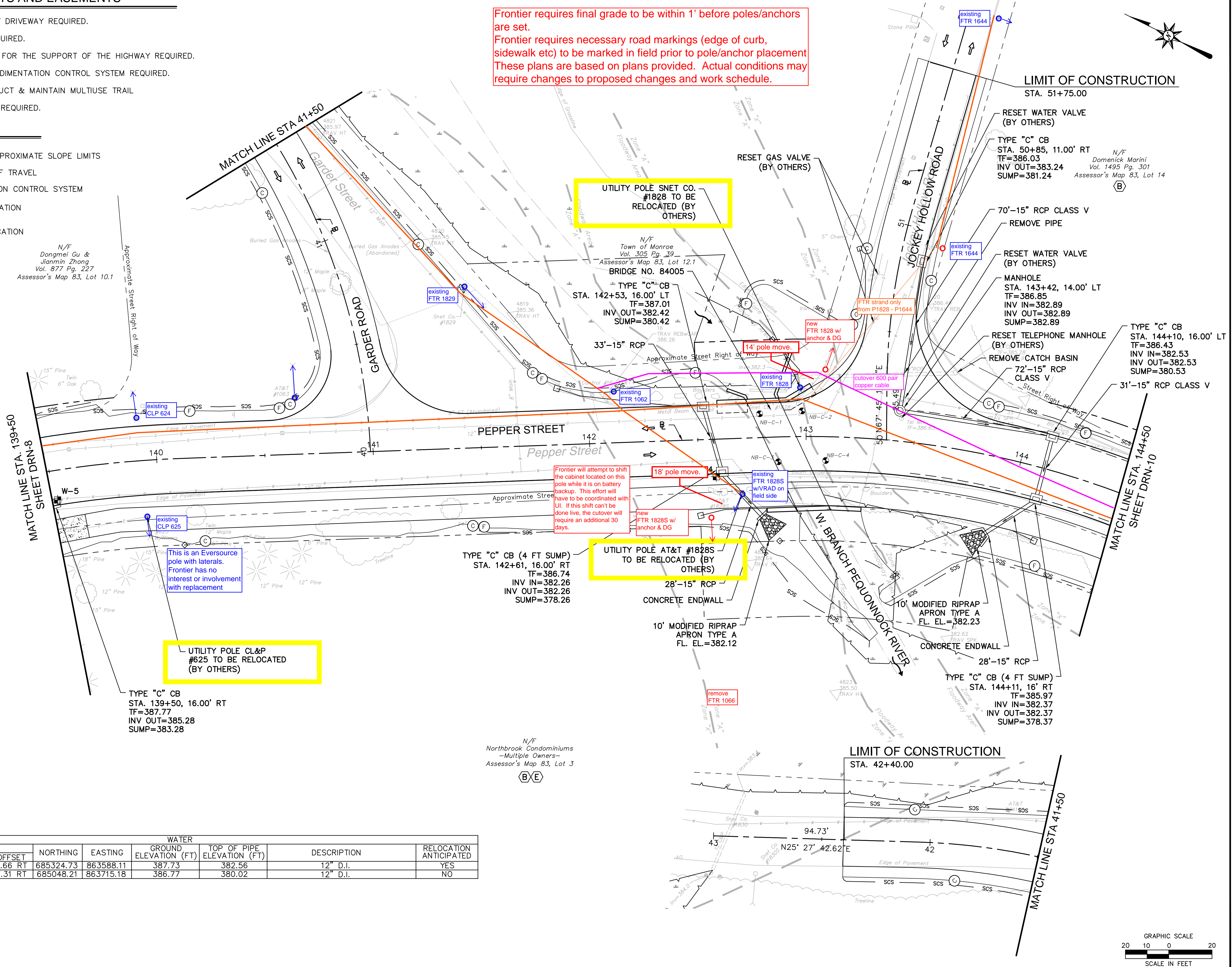
SCHEDULE OF RIGHTS AND EASEMENTS

- (A) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED.
- (B) RIGHT TO GRADE REQUIRED.
- (C) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY REQUIRED.
- (D) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED.
- (E) EASEMENT TO CONSTRUCT & MAINTAIN MULTIUSE TRAIL
- (F) EASEMENT TO DRAIN REQUIRED.

LEGEND:

- ⊖ ⊕ FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS SEDIMENTATION CONTROL SYSTEM
- ⊙ BORING LOCATION
- ⊕ TEST PIT LOCATION

Frontier requires final grade to be within 1' before poles/anchors are set.
Frontier requires necessary road markings (edge of curb, sidewalk etc) to be marked in field prior to pole/anchor placement
These plans are based on plans provided. Actual conditions may require changes to proposed changes and work schedule.



N/F Dongmei Gu & Jianmin Zhong
Vol. 877 Pg. 227
Assessor's Map 83, Lot 10.1

N/F Town of Monroe
Vol. 305 Pg. 39
Assessor's Map 83, Lot 12.1
BRIDGE NO. 84005

TYPE "C" CB
STA. 142+53, 16.00' LT
TF=387.01
INV. OUT=382.42
SUMP=380.42

Frontier will attempt to shift the cabinet located on this pole while it is on battery backup. This effort will have to be coordinated with UI. If this shift can't be done live, the cutover will require an additional 30 days.

This is an Eversource pole with laterals. Frontier has no interest or involvement with replacement

TYPE "C" CB (4 FT SUMP)
STA. 142+61, 16.00' RT
TF=386.74
INV IN=382.26
INV OUT=382.26
SUMP=378.26

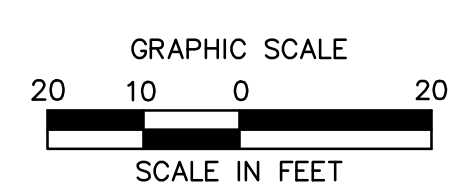
UTILITY POLE CL&P #625 TO BE RELOCATED (BY OTHERS)

UTILITY POLE AT&T #1828S TO BE RELOCATED (BY OTHERS)

LIMIT OF CONSTRUCTION
STA. 51+75.00

LIMIT OF CONSTRUCTION
STA. 42+40.00

TEST PIT #	BASELINE		WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET	NORTHING	EASTING		
W-5	139+52	13.66 RT	685324.73	863588.11	12" D.I.	YES
W-4	142+58	17.31 RT	685048.21	863715.18	12" D.I.	NO



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(203) 630-1406
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ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS	No.	Date	Desc.
Designed			O.L.C.
Drawn			O.L.C.
Checked			B.J.P.
Approved			
Scale			1"=20'
Project No.			12C4326
Date			03/25/16
CAD File:			TDRN12C432601

Title
DRAINAGE PLAN

Sheet No.
DRN-9

3/7/2016, Q:\ASTRANO, G. \BOS12\12C4326\DWG\TDRN12C432601.DWG, TDRN-09, 24x36, 20SC

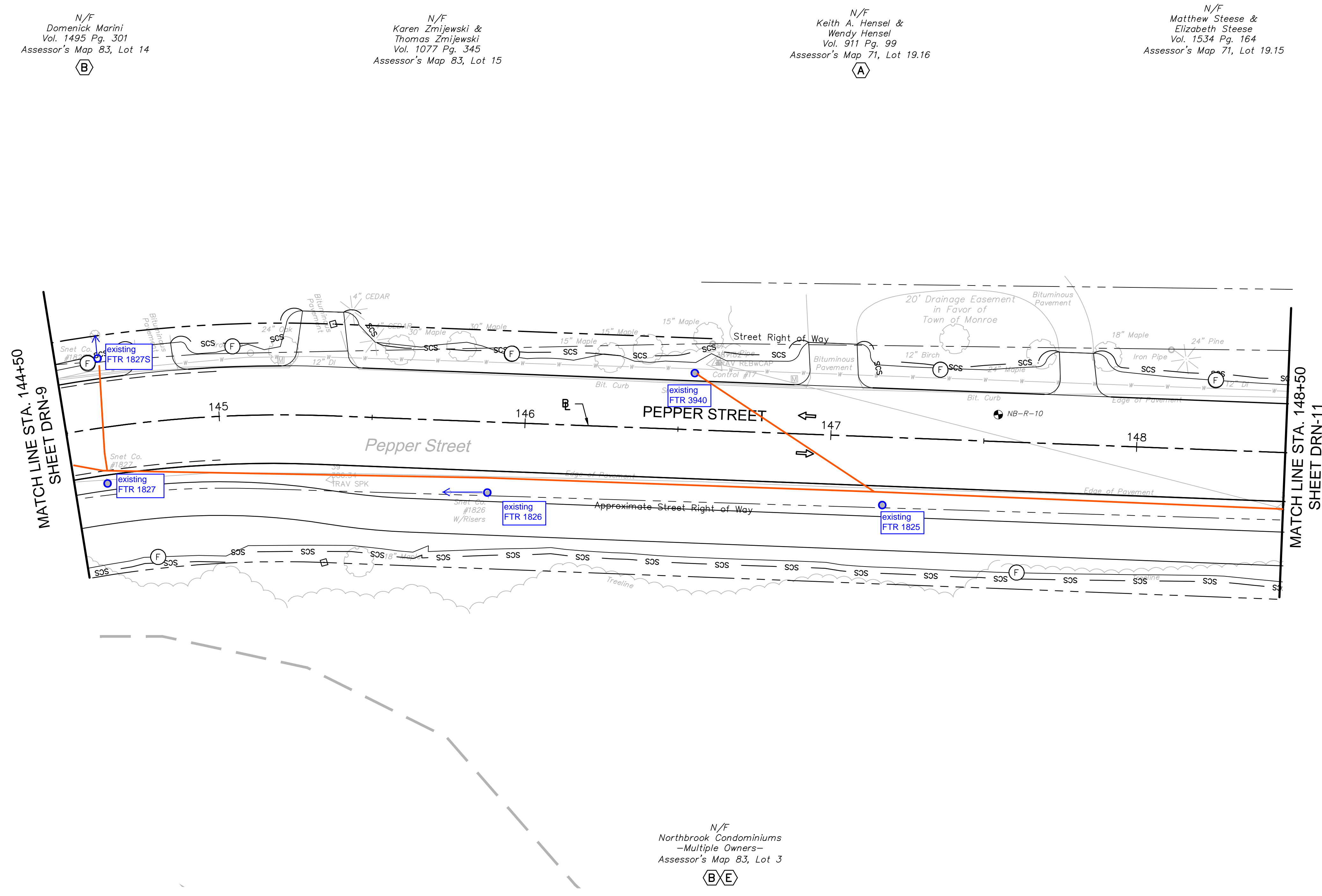
SCHEDULE OF RIGHTS AND EASEMENTS

- (A) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED.
- (B) RIGHT TO GRADE REQUIRED.
- (C) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY REQUIRED.
- (D) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED.
- (E) EASEMENT TO CONSTRUCT & MAINTAIN MULTIUSE TRAIL
- (F) EASEMENT TO DRAIN REQUIRED.

LEGEND:

- (C)— FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- scs — SEDIMENTATION CONTROL SYSTEM
- ⊙ BORING LOCATION
- ⊕ TEST PIT LOCATION

Frontier requires final grade to be within 1' before poles/anchors are set.
Frontier requires necessary road markings (edge of curb, sidewalk etc) to be marked in field prior to pole/anchor placement
These plans are based on plans provided. Actual conditions may require changes to proposed changes and work schedule.



355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

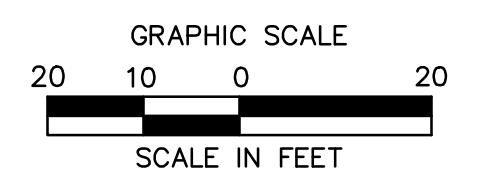
**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

REVISIONS	
No.	Date

Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	1"=20'
Project No.	12C4326
Date	03/25/16
CAD File:	TDRN12C432601

Title
DRAINAGE PLAN

Sheet No.
DRN-10



3/7/2016, Q:\ASTRING, G., \B512\12C4326\DWG\TDRN12C432601.DWG, TDRN-10, 24x36, 205C.

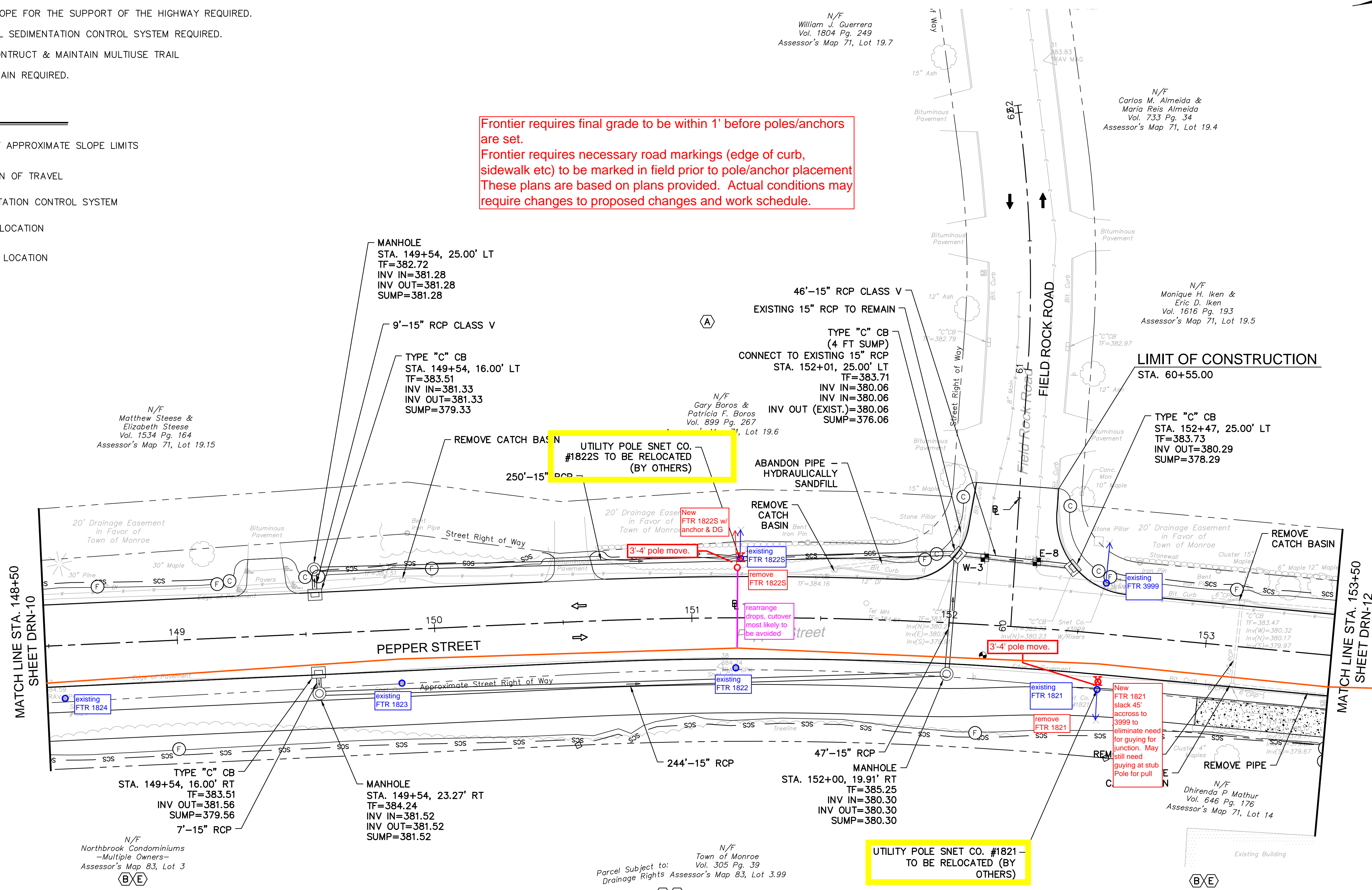
SCHEDULE OF RIGHTS AND EASEMENTS

- (A) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED.
- (B) RIGHT TO GRADE REQUIRED.
- (C) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY REQUIRED.
- (D) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED.
- (E) EASEMENT TO CONTRACT & MAINTAIN MULTIUSE TRAIL
- (F) EASEMENT TO DRAIN REQUIRED.

LEGEND:

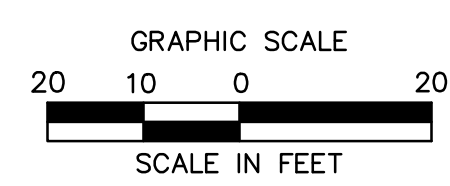
- (C)— FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS — SEDIMENTATION CONTROL SYSTEM
- ⊙ BORING LOCATION
- ⊕ TEST PIT LOCATION

Frontier requires final grade to be within 1' before poles/anchors are set.
Frontier requires necessary road markings (edge of curb, sidewalk etc) to be marked in field prior to pole/anchor placement
These plans are based on plans provided. Actual conditions may require changes to proposed changes and work schedule.



TEST PIT #	BASELINE		NORTHING*	EASTING*	ELECTRIC		DESCRIPTION	RELOCATION ANTICIPATED
	STATION*	OFFSET*			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
E-8	152+32	26.00 LT	684095.85	863665.05	384.09	382.09	4" CONDUIT; DIRECT BURIAL CABLE	NO

TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-3	152+12	26.03 LT	684114.73	863670.56	383.58	379.00	12" D.I.	NO



ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LAND SURVEYING

355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

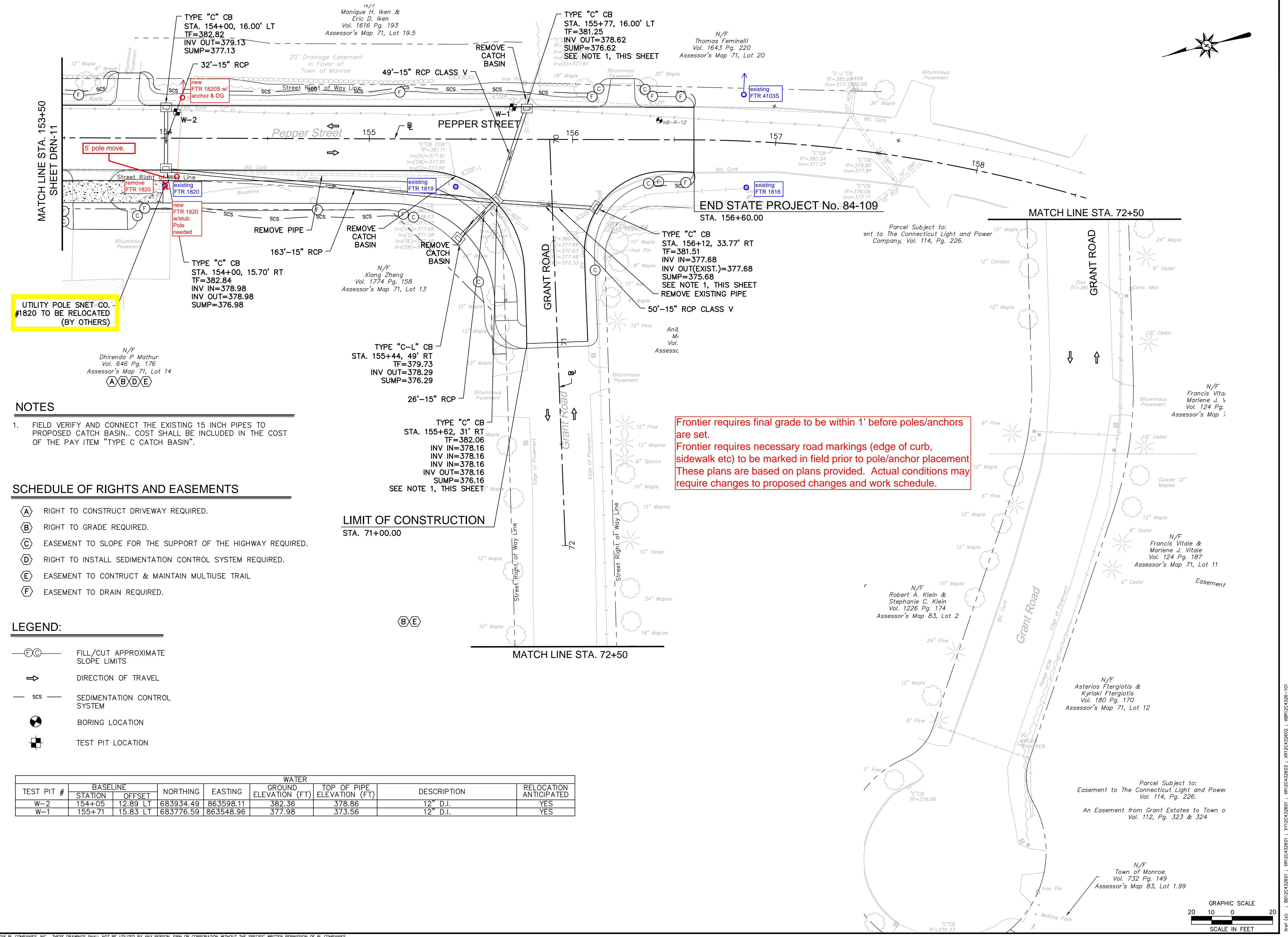
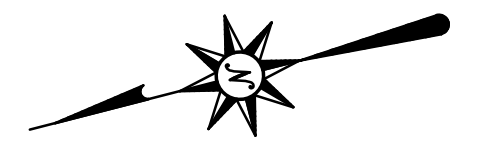
REVISIONS	No.	Date	Desc.

Designed O.L.C.
Drawn O.L.C.
Checked B.J.P.
Approved
Scale 1"=20'
Project No. 12C4326
Date 03/25/16
CAD File: TDRN12C432601

Title
DRAINAGE PLAN

Sheet No.
DRN-11

3/7/2016, Q:\ASTRANO, G., \BIBS\12C4326\DWG\TDRN12C432601.DWG, TDRN-11, 24X36, 20SC.



UTILITY POLE SNET CO. #1820 TO BE RELOCATED (BY OTHERS)

- NOTES**
- FIELD VERIFY AND CONNECT THE EXISTING 15 INCH PIPES TO PROPOSED CATCH BASIN.. COST SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "TYPE C CATCH BASIN".

- SCHEDULE OF RIGHTS AND EASEMENTS**
- (A) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED.
 - (B) RIGHT TO GRADE REQUIRED.
 - (C) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY REQUIRED.
 - (D) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED.
 - (E) EASEMENT TO CONSTRUCT & MAINTAIN MULTIUSE TRAIL
 - (F) EASEMENT TO DRAIN REQUIRED.

- LEGEND:**
- (FC) FILL/CUT APPROXIMATE SLOPE LIMITS
 - DIRECTION OF TRAVEL
 - scs SEDIMENTATION CONTROL SYSTEM
 - ⊙ BORING LOCATION
 - ⊕ TEST PIT LOCATION

TEST PIT #	BASELINE		NORTHING	EASTING	WATER		DESCRIPTION	RELOCATION ANTICIPATED
	STATION	OFFSET			GROUND ELEVATION (FT)	TOP OF PIPE ELEVATION (FT)		
W-2	154+05	12.89 LT	683934.49	863598.11	382.36	378.86	12" D.I.	YES
W-1	155+71	15.83 LT	683776.59	863548.96	377.98	373.56	12" D.I.	YES

Frontier requires final grade to be within 1' before poles/anchors are set.
Frontier requires necessary road markings (edge of curb, sidewalk etc) to be marked in field prior to pole/anchor placement
These plans are based on plans provided. Actual conditions may require changes to proposed changes and work schedule.

3/7/2016, QMASTRANO, G., VBS1213212C432601.DWG, TDRN-12 24X36 205C.
©2016 BL COMPANIES, INC. THESE DRAWINGS SHALL NOT BE UTILIZED BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE SPECIFIC WRITTEN PERMISSION OF BL COMPANIES.

NOTES:

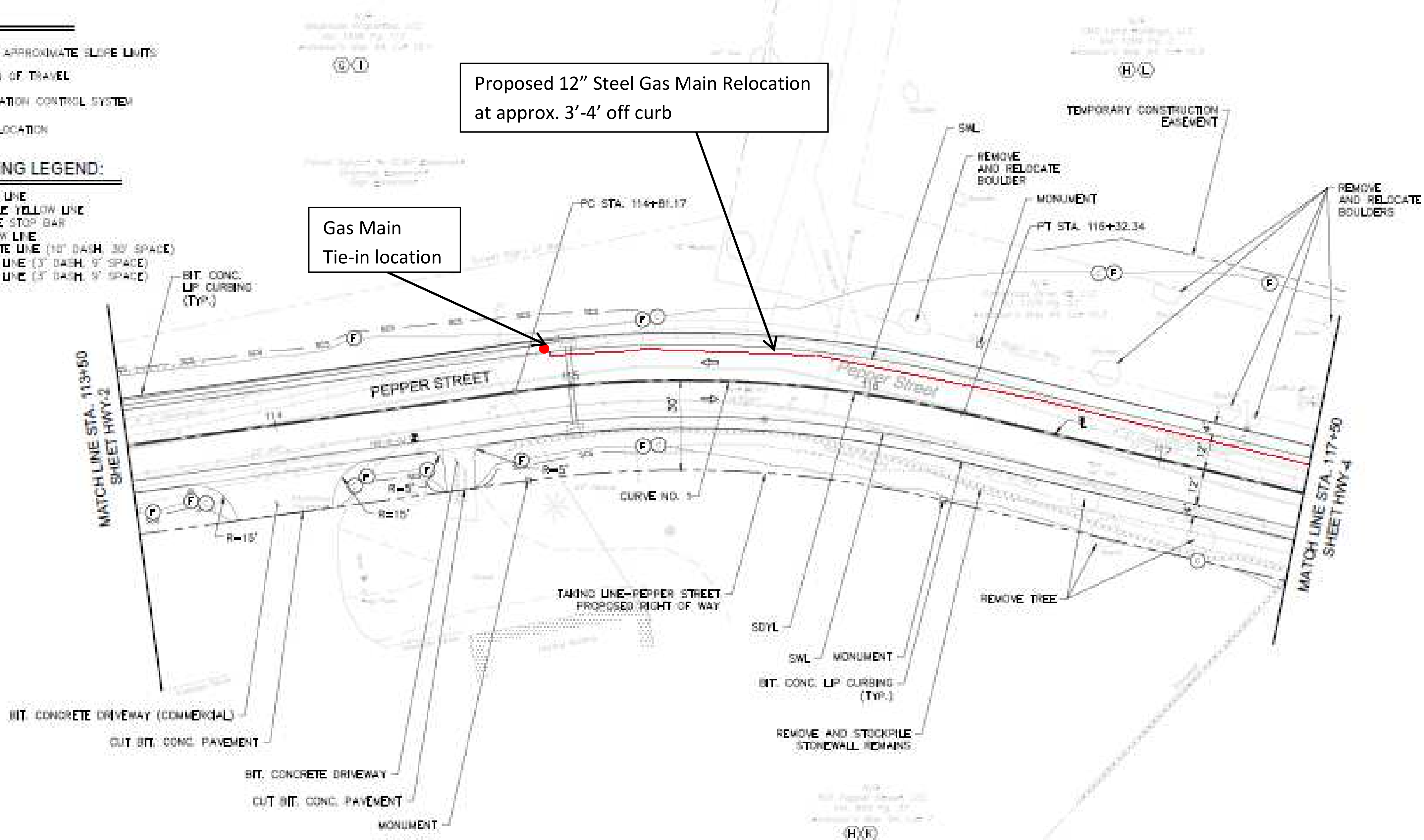
- REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.

LEGEND:

- FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION

PAVEMENT MARKING LEGEND:

- SWL 4" SOLID WHITE LINE
- SDYL 4" SOLID DOUBLE YELLOW LINE
- SWSB 12" SOLID WHITE STOP BAR
- SYL 4" SOLID YELLOW LINE
- BWL 4" BROKEN WHITE LINE (10' DASH, 30' SPACE)
- DWL 4" DASH WHITE LINE (3' DASH, 9' SPACE)
- DDWL 8" DASH WHITE LINE (3' DASH, 9' SPACE)



CURVE DATA

CURVE NO.		NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
CURVE NO. 1	PC	687384.55	682270.94	21°07'33"	410.0'	76.45'	151.2'
	PI	687347.57	682337.87				
	PT	687288.98	682386.98				

SUPERELEVATION TABLE

CURVE NO.	RATE OF SUPERELEVATION	BEGIN TRANSITION	END TRANSITION	BEGIN TRANSITION	END TRANSITION
CURVE NO. 1	2%	114+15.00	114+95.00	116+20.00	117+00.00



BL
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ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LANDSCAPE ARCHITECTURE

200 Franklin Parkway
Newton, MA 02459
(617) 552-3000

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

DATE: 11/11/2011
SCALE: AS SHOWN
DRAWN BY: J. GARDNER
CHECKED BY: J. GARDNER
DATE: 11/11/2011

TH
ROADWAY
CONSTRUCTION
PLAN

HWY-3

LEGEND:

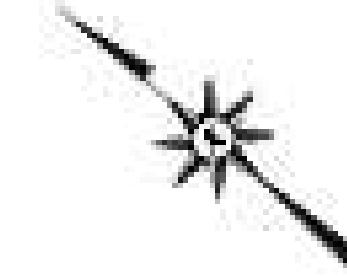
- FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION

PAVEMENT MARKING LEGEND:

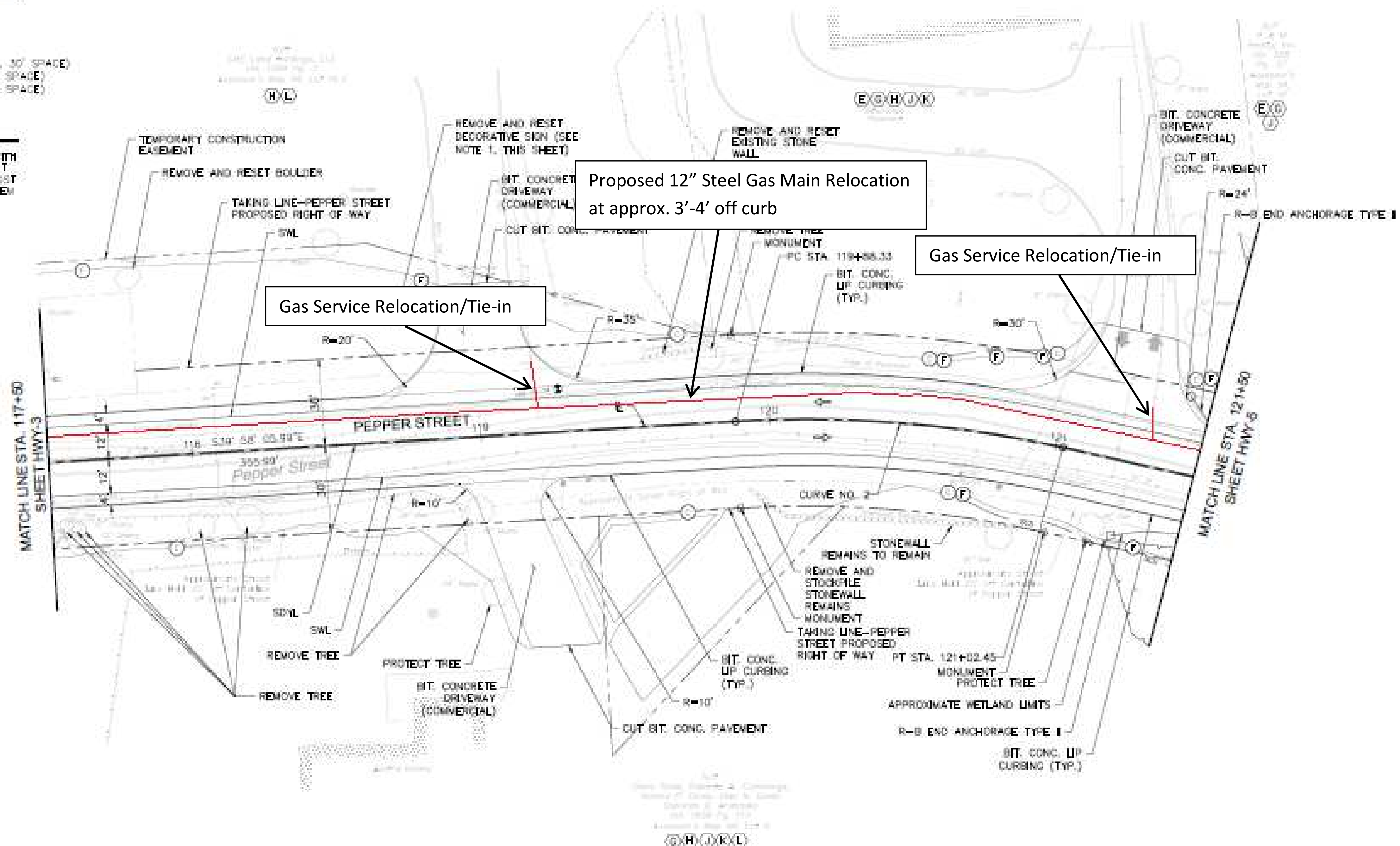
- SWL 4" SOLID WHITE LINE
- SDYL 4" SOLID DOUBLE YELLOW LINE
- SWSB 12" SOLID WHITE STOP BAR
- SYL 4" SOLID YELLOW LINE
- BWL 4" BROKEN WHITE LINE (10' DASH, 30' SPACE)
- DWL 4" DASH WHITE LINE (3' DASH, 9' SPACE)
- DDWL 8" DASH WHITE LINE (3' DASH, 9' SPACE)

NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH PROPERTY OWNER AND REMOVE & RESET AS DIRECTED BY THE ENGINEER. THE COST SHALL BE INCLUDED IN THE COST OF ITEM "CLEARING AND GRUBBING".
2. REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.



222 Pleasant Parkway
Meriden, CT 06460
(203) 655-1100
(203) 655-2000 Fax



ROADWAY RECONSTRUCTION
 PEPPER STREET
 MONROE, CONNECTICUT

CURVE DATA							
CURVE NO.		NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
CURVE NO. 2	PC	887016.15	882615.65				
	PI	886972.14	882652.54	13°56'48"	410.0'	57.43'	114.1'
	PT	886919.68	882675.92				

SUPERELEVATION TABLE					
CURVE NO.	RATE OF SUPERELEVATION	BEGIN TRANSITION	END TRANSITION	BEGIN TRANSITION	END TRANSITION
CURVE NO. 2	2%	1194-22.00	1204-02.00	1204-80.00	1214-70.00

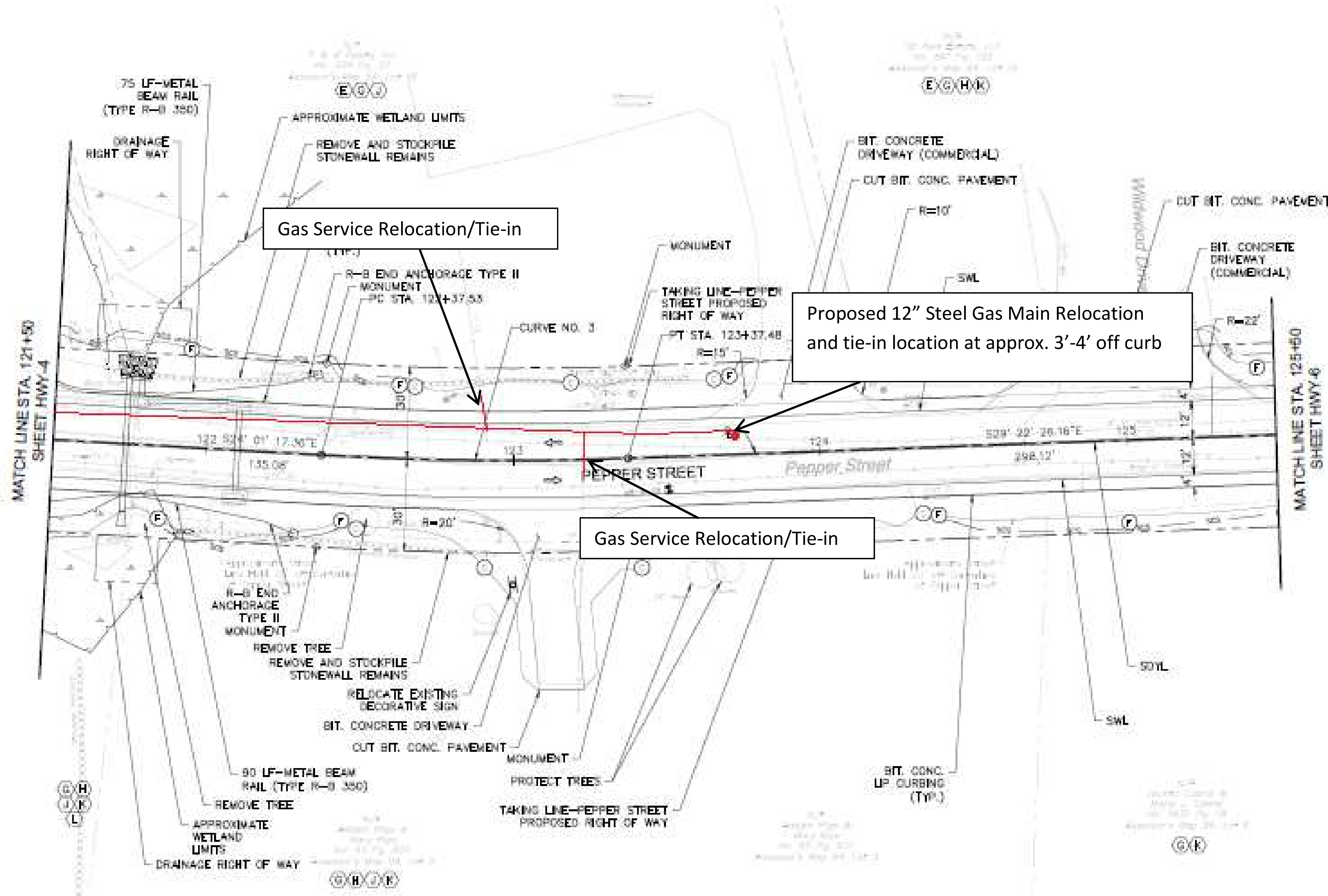


ROADWAY CONSTRUCTION PLAN
 HWY-4

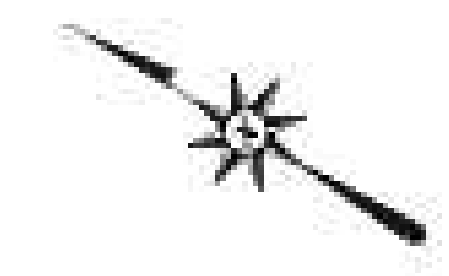
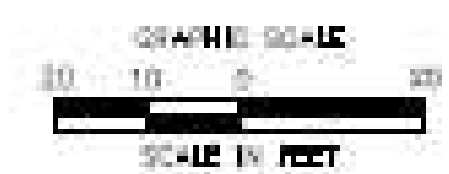
NOTES:
 1. REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.

- LEGEND:**
- (F)— FILL/CUT APPROXIMATE SLOPE LIMITS
 - DIRECTION OF TRAVEL
 - (S)— SEGMENTATION CONTROL SYSTEM
 - ⊙ SPRING LOCATION

- PAVEMENT MARKING LEGEND:**
- SWL 4" SOLID WHITE LINE
 - SDYL 4" SOLID DOUBLE YELLOW LINE
 - SWSB 12" SOLID WHITE STOP BAR
 - SYL 4" SOLID YELLOW LINE
 - BWL 4" BROWN WHITE LINE (10' DASH, 30' SPACE)
 - DWL 4" DASH WHITE LINE (5' DASH, 8' SPACE)
 - DDWL 8" DASH WHITE LINE (3' DASH, 8' SPACE)



CURVE DATA							
CURVE NO.		NORTHING	EASTING	A	RADIUS	TANGENT	LENGTH
CURVE NO. 3	PC	886798.30	862730.01				
	PI	886750.62	862751.27	3'21"09"	1070.0'	50.0'	100.0'
	PT	886707.03	862775.80				



225 Pleasant Parkway
 Wallingford, CT 06495
 (203) 261-1000 FAX
 (203) 261-0100 Ext.

ROADWAY RECONSTRUCTION
 PEPPER STREET
 MONROE, CONNECTICUT

PROJECT NO. WY034180
 DATE: 11/10/09
 DRAWN BY: J. GARDNER
 CHECKED BY: J. GARDNER
 IN CHARGE: J. GARDNER
 PROJECT: ROADWAY RECONSTRUCTION
 SHEET: CONSTRUCTION PLAN

HWY-5

NOTES:

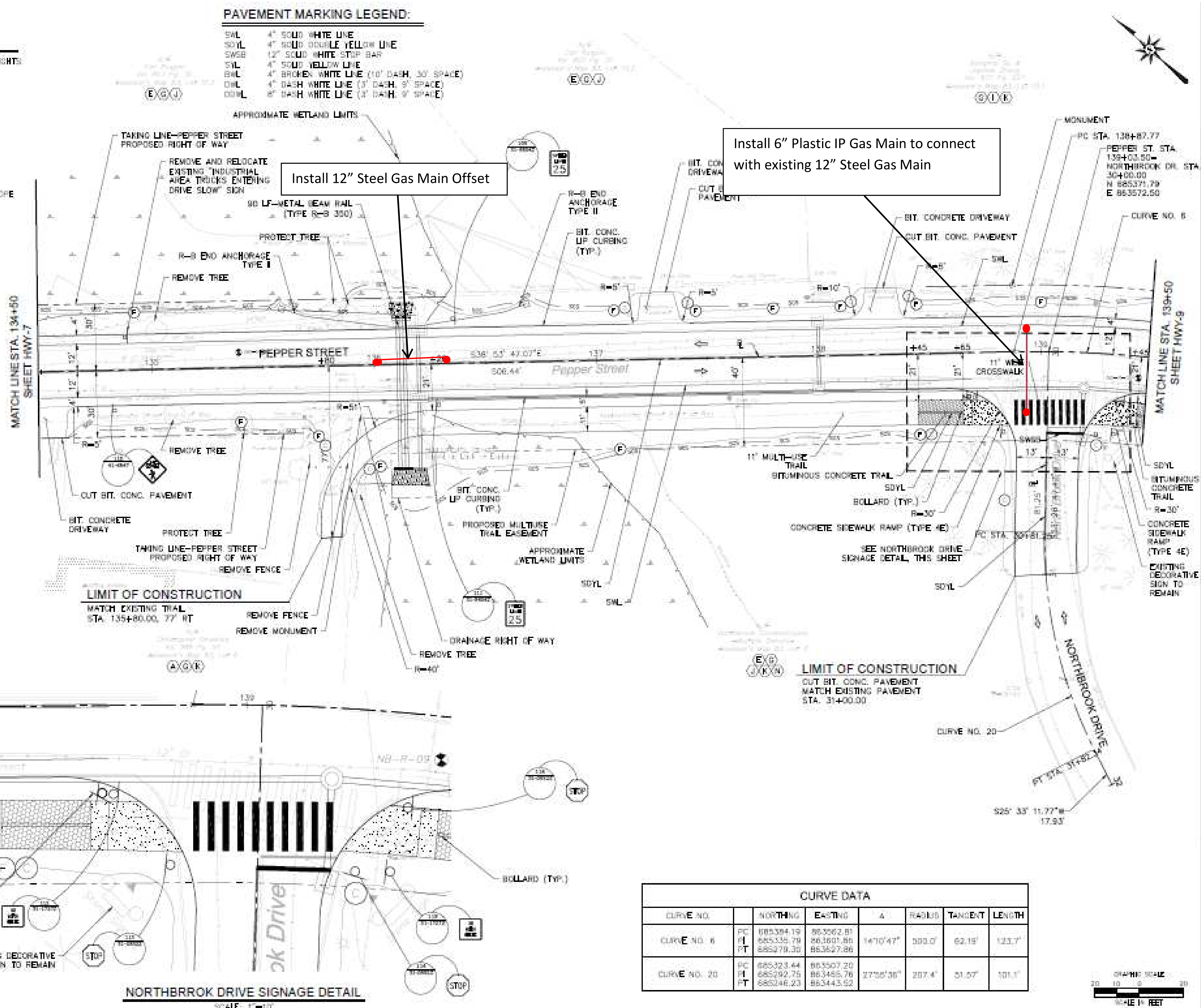
1. REFER TO GEN-1 FOR SCHEDULE OF RIGHTS AND EASEMENTS.

PAVEMENT MARKING LEGEND:

- SWL 4" SOLID WHITE LINE
- SDYL 4" SOLID DOUBLE YELLOW LINE
- SWSB 12" SOLID WHITE STRIP BAR
- SYL 4" SOLID YELLOW LINE
- BWL 4" BROKEN WHITE LINE (10' DASH, 30' SPACE)
- DWL 4" DASH WHITE LINE (3' DASH, 9' SPACE)
- DDWL 8" DASH WHITE LINE (3' DASH, 9' SPACE)

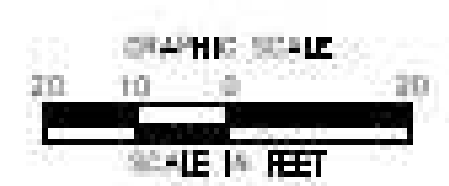
LEGEND:

- FILL/DUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION
- BITUMINOUS CONCRETE
- CONCRETE



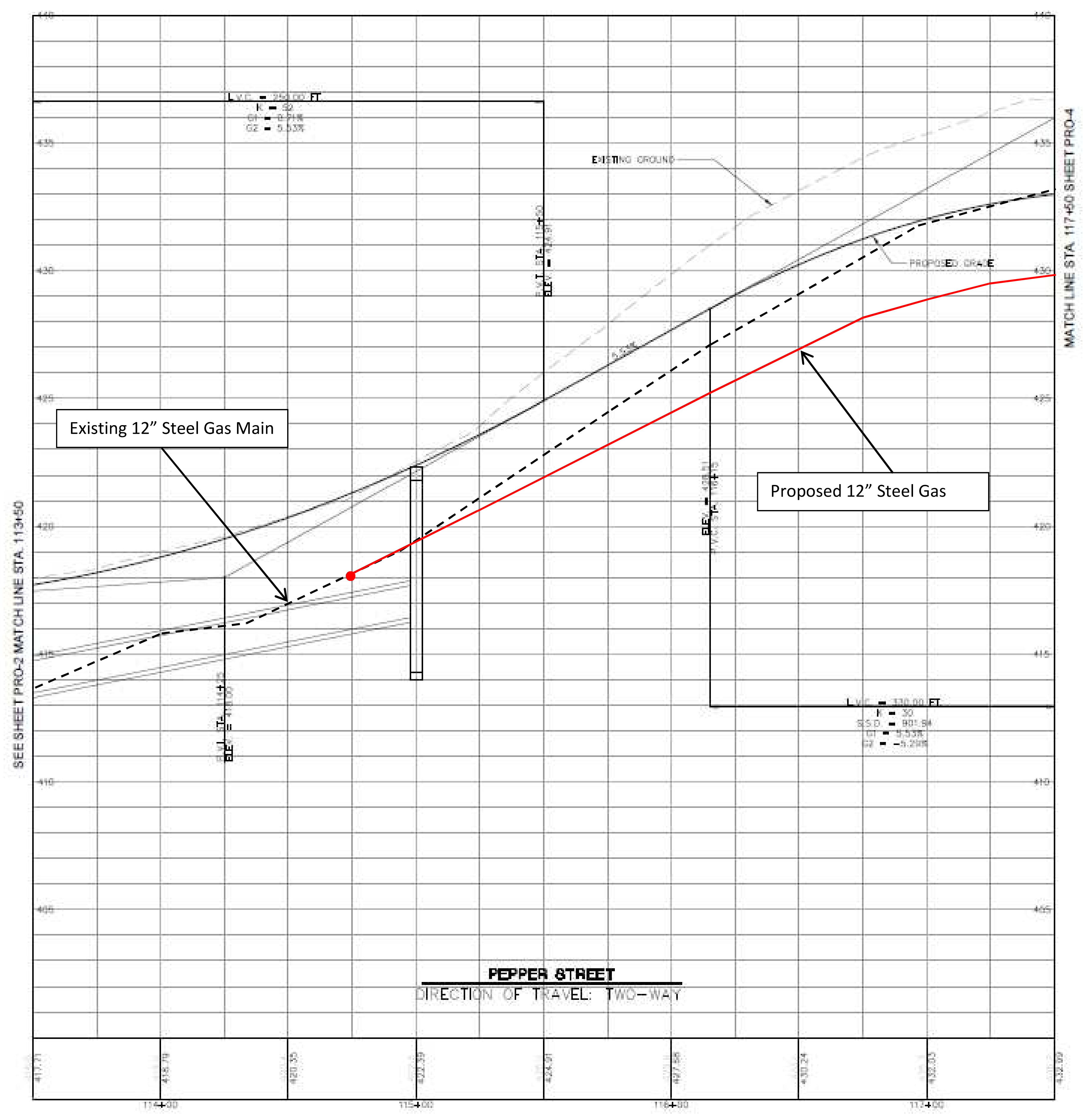
CURVE DATA

CURVE NO.	NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
CURVE NO. 6	PC 885384.19 PI 885335.78 PT 885278.30	863262.81 863801.88 863627.86	147°47'	303.0'	62.15'	123.7'
CURVE NO. 20	PC 885323.44 PI 885292.75 PT 885246.23	863507.20 863485.76 863443.62	2758'38"	287.4'	51.57'	101.1'



ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

TH
ROADWAY CONSTRUCTION PLAN
HWY-8

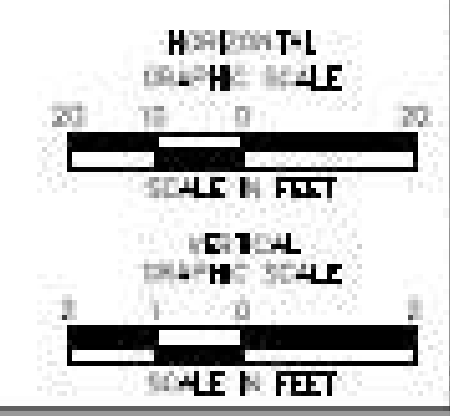
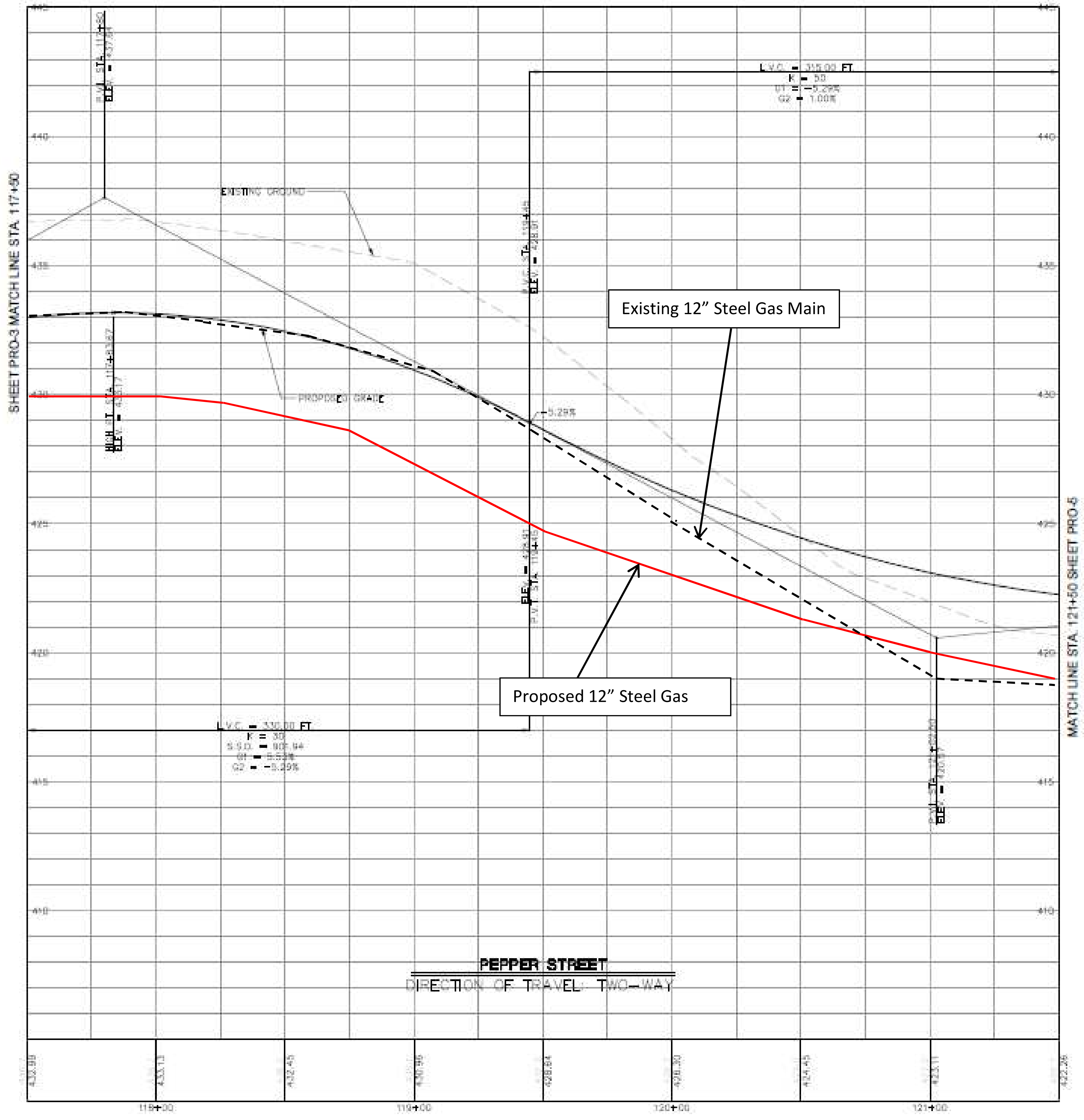


ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

NO.	DESCRIPTION	DATE
1	PRO-3	11/11/2011
2	PRO-4	11/11/2011
3	PRO-5	11/11/2011
4	PRO-6	11/11/2011
5	PRO-7	11/11/2011
6	PRO-8	11/11/2011
7	PRO-9	11/11/2011
8	PRO-10	11/11/2011
9	PRO-11	11/11/2011
10	PRO-12	11/11/2011
11	PRO-13	11/11/2011
12	PRO-14	11/11/2011
13	PRO-15	11/11/2011
14	PRO-16	11/11/2011
15	PRO-17	11/11/2011
16	PRO-18	11/11/2011
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19	PRO-21	11/11/2011
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22	PRO-24	11/11/2011
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24	PRO-26	11/11/2011
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94	PRO-96	11/11/2011
95	PRO-97	11/11/2011
96	PRO-98	11/11/2011
97	PRO-99	11/11/2011
98	PRO-100	11/11/2011

TH ROADWAY PROFILE

PRO-3



**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

PROJECT NO.	121450
DATE	02/28/20
SCALE	AS SHOWN
DESIGNED BY	C.P.C.
CHECKED BY	
IN CHARGE	
DATE	

ROADWAY PROFILE

PRO-4



ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LANDSCAPE

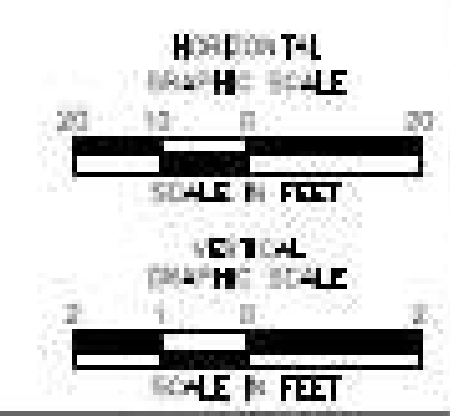
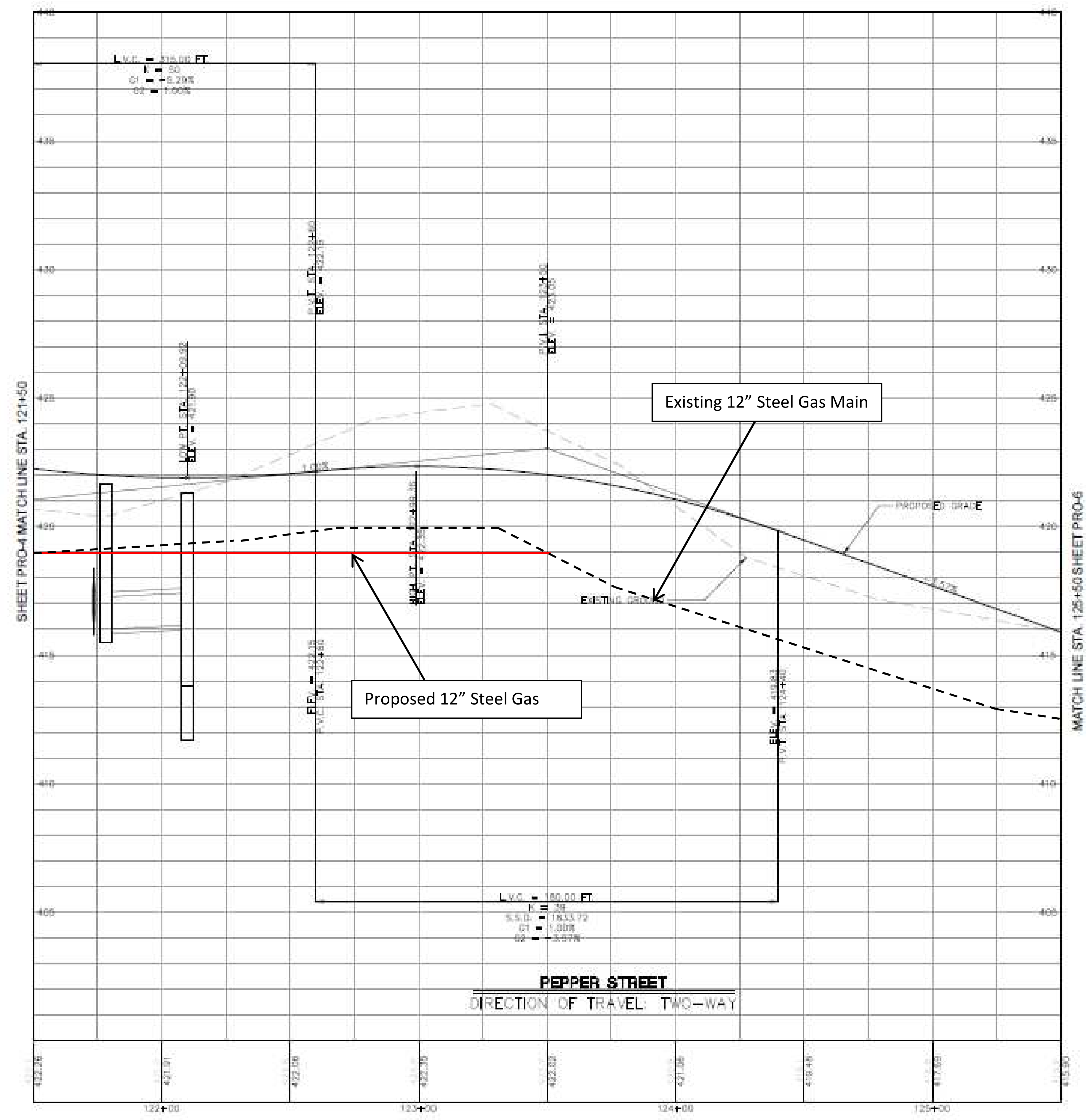
200 Riverside Parkway
Meriden, CT 06450
(203) 239-4400
(203) 239-0100 Fax

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

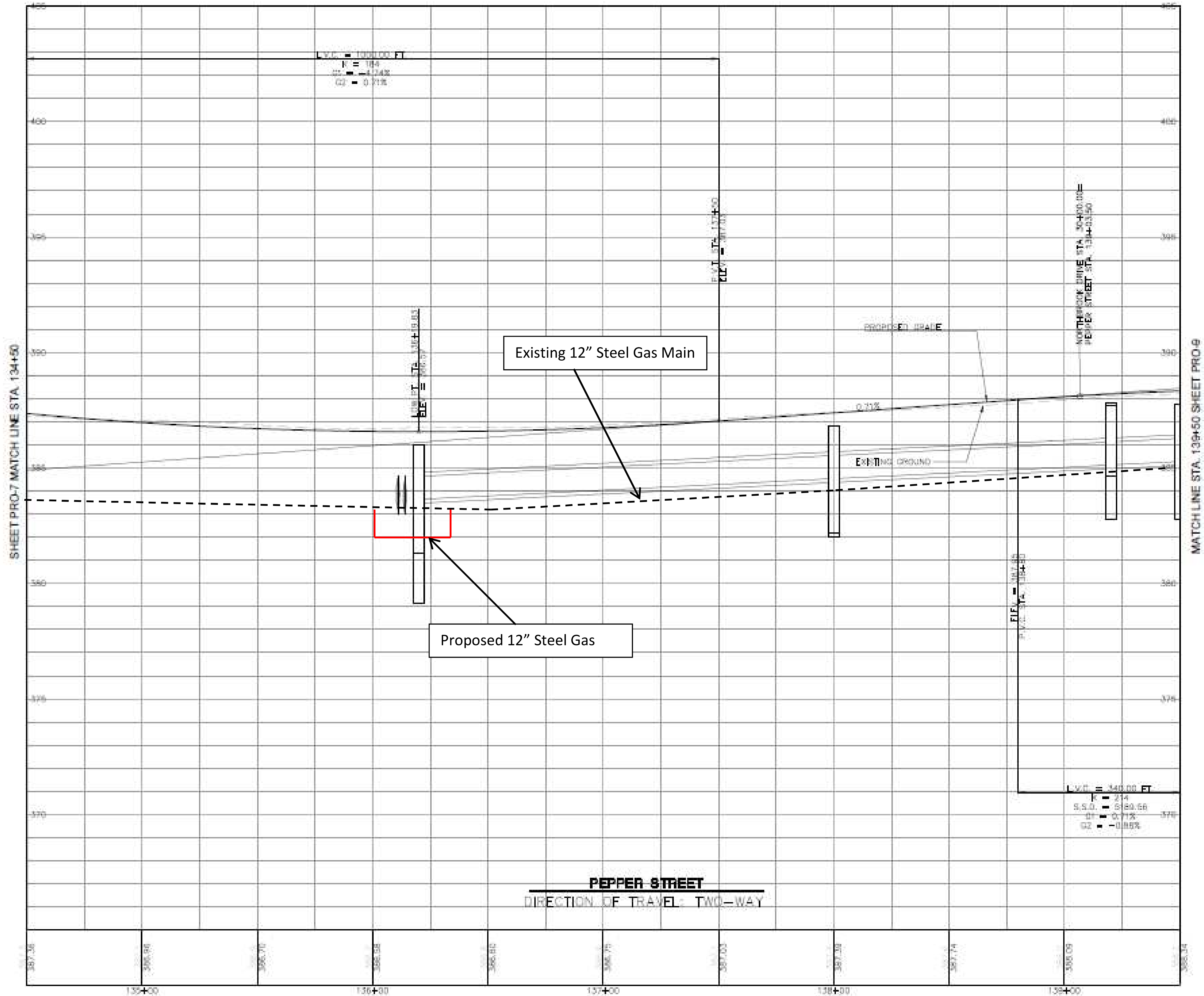
Proposed 12" Steel Gas	12" Steel Gas
Existing 12" Steel Gas	12" Steel Gas
Proposed 6" Steel Gas	6" Steel Gas
Existing 6" Steel Gas	6" Steel Gas
Proposed 4" Steel Gas	4" Steel Gas
Existing 4" Steel Gas	4" Steel Gas
Proposed 3" Steel Gas	3" Steel Gas
Existing 3" Steel Gas	3" Steel Gas
Proposed 2" Steel Gas	2" Steel Gas
Existing 2" Steel Gas	2" Steel Gas
Proposed 1.5" Steel Gas	1.5" Steel Gas
Existing 1.5" Steel Gas	1.5" Steel Gas
Proposed 1" Steel Gas	1" Steel Gas
Existing 1" Steel Gas	1" Steel Gas
Proposed 0.75" Steel Gas	0.75" Steel Gas
Existing 0.75" Steel Gas	0.75" Steel Gas
Proposed 0.5" Steel Gas	0.5" Steel Gas
Existing 0.5" Steel Gas	0.5" Steel Gas
Proposed 0.25" Steel Gas	0.25" Steel Gas
Existing 0.25" Steel Gas	0.25" Steel Gas

TH
ROADWAY
PROFILE

PRO-5



DATE: 08/11/2011 10:00 AM



ARCHITECTURE
ENGINEERING
ENVIRONMENTAL
LANDSCAPE

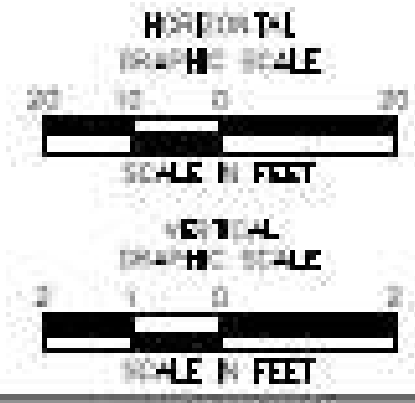
222 Federal Parkway
Meriden, CT 06450
(203) 635-1400
www.blcompanies.com

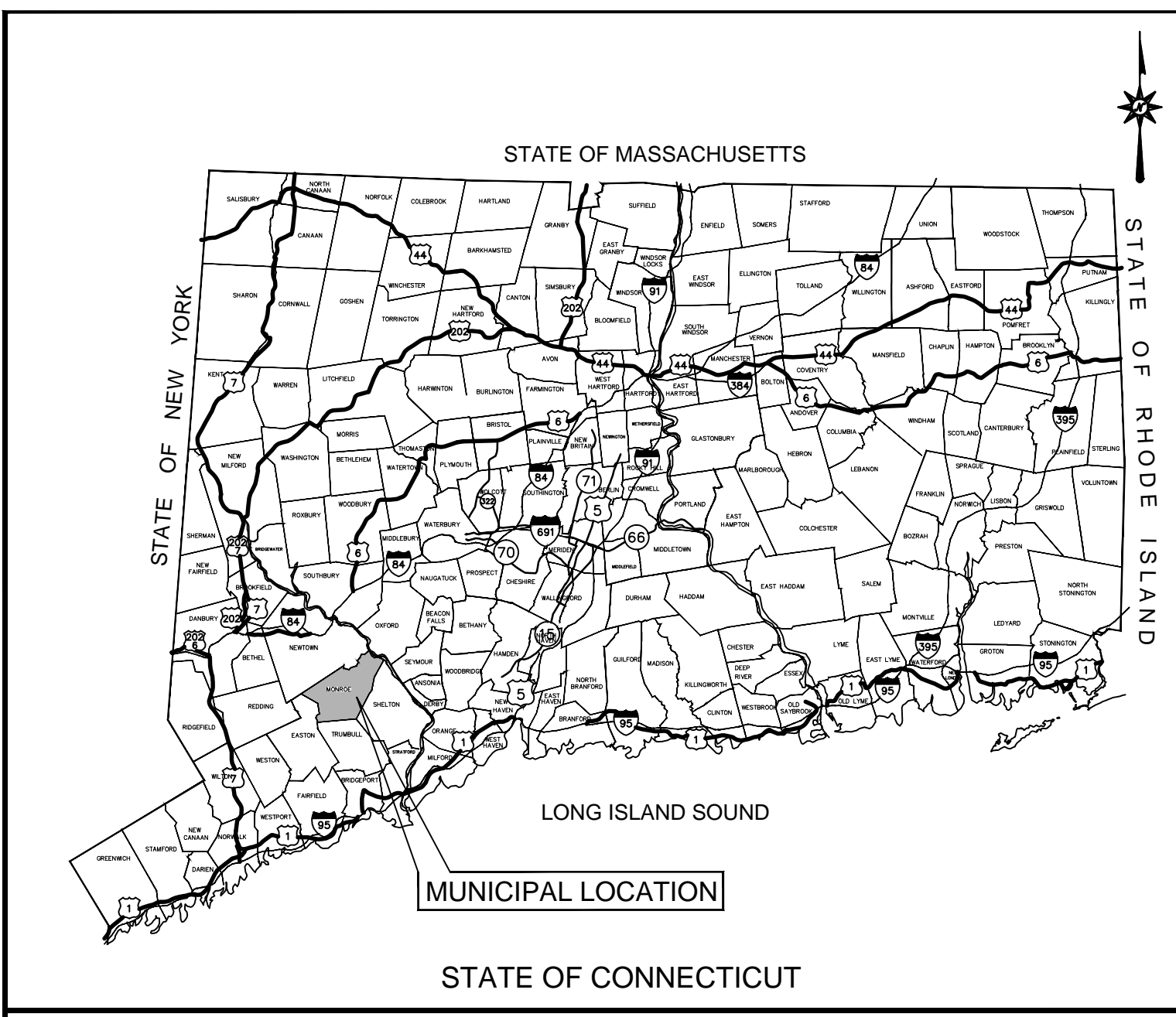
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

1" = 20'	1" = 40'	1" = 80'	1" = 160'
1" = 20'	1" = 40'	1" = 80'	1" = 160'
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1" = 20'	1" = 40'	1" = 80'	1" = 160'
1" = 20'	1" = 40'	1" = 80'	1" = 160'

TH
ROADWAY
PROFILE

PRO-8





LOCATION MAP
N.T.S.

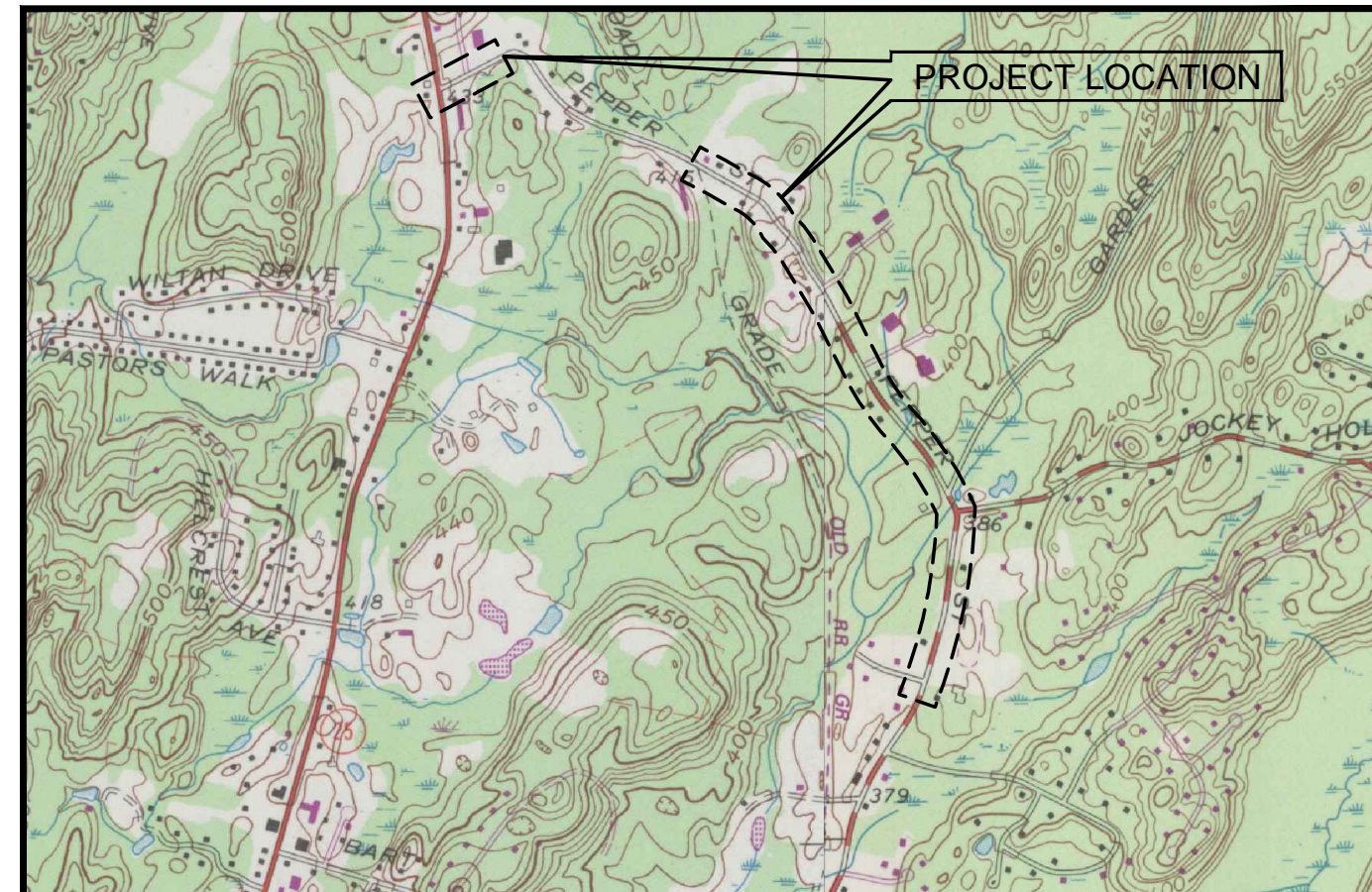
INLAND WETLANDS PERMIT PLANS

FOR

RECONSTRUCTION OF PEPPER STREET

TOWN OF MONROE

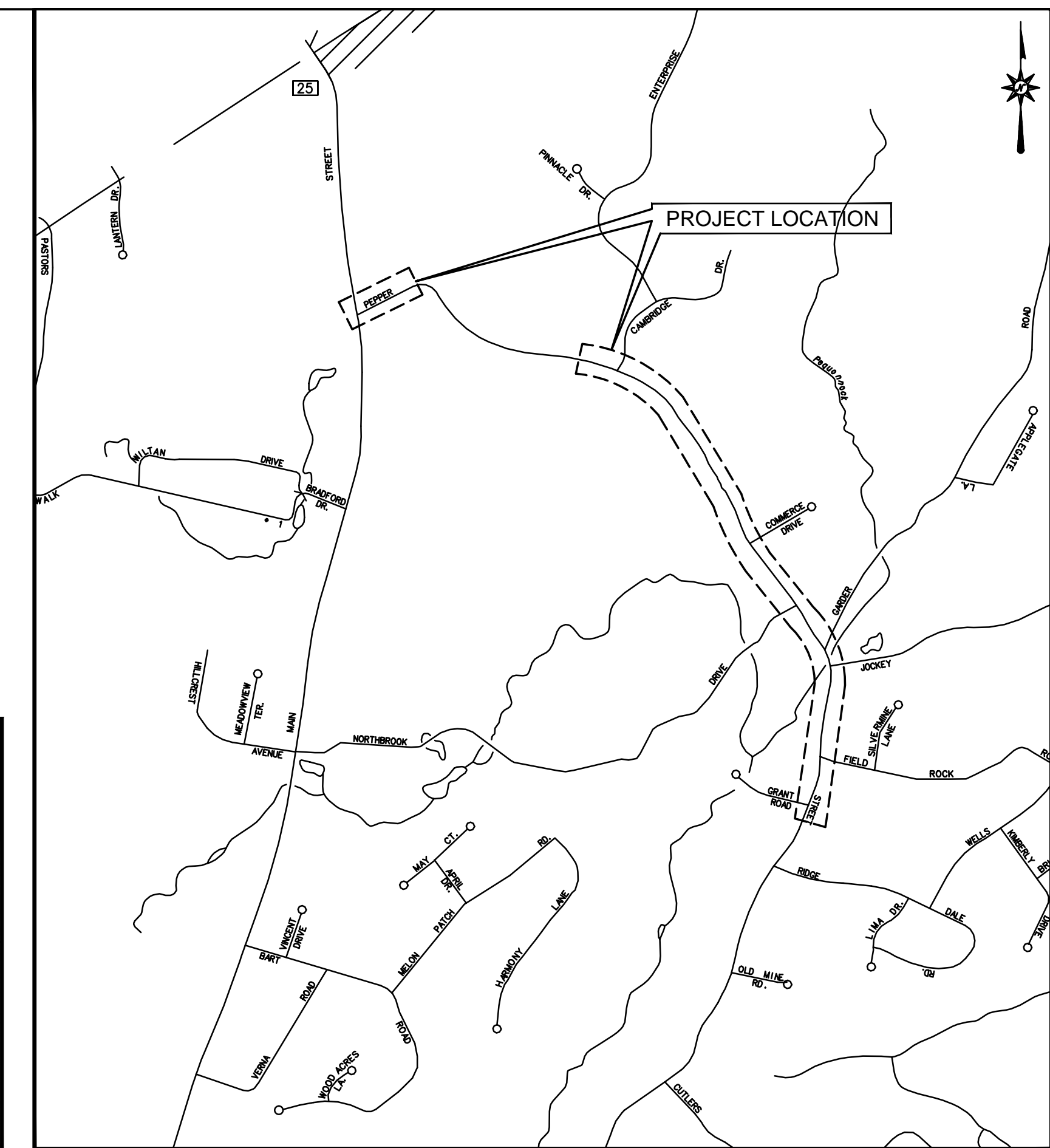
STATE PROJECT 84-109



USGS QUADRANGLE TOPOGRAPHICAL MAP - BOSTFORD AND LONG HILL



FEMA FLOOD MAP



VICINITY MAP
SCALE: 1"=1,000'

CONTENTS

- TITLE SHEET
- INX-1 INDEX PLAN
- TYP-1-2 TYPICAL CROSS SECTIONS
- MDS-1-2 MISCELLANEOUS DETAIL SHEETS
- EIP-1-12 ENVIRONMENTAL IMPACT PLANS
 - S-1 EXISTING CULVERT PLAN
 - S-2-3 CONSTRUCTION STAGING AND WATER HANDLING PLANS
 - S-4 PROPOSED CULVERT PLAN
- LDS-1-12 LANDSCAPING PLANS

2004 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION FORM 816, INCLUDING ALL SUPPLEMENTS THERETO DATED JULY 2015.

ALL HORIZONTAL GEOMETRY ON THIS PROJECT IS BASED ON A FIELD SURVEY PERFORMED BY BL COMPANIES DATED: MAY 2014 ON HORIZONTAL DATUM NAD83.

ALL ELEVATIONS ON THIS PROJECT BASED ON NAVD88.

DESIGN STANDARDS:

TOWN OF MONROE DESIGN STANDARDS

CONNECTICUT DEPARTMENT OF TRANSPORTATION HIGHWAY DESIGN MANUAL, 2003 EDITION.

A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS 2011 EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO).

CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL, 2003 EDITION.

PREPARED FOR:

TOWN OF MONROE

7 FAN HILL ROAD

MONROE, CONNECTICUT 06468

PREPARED BY:



ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING

355 RESEARCH PARKWAY
MERIDEN, CONNECTICUT 06450
(203) 630-1406
(203) 630-2615 Fax

SUBCONSULTANTS:

NOBIS ENGINEERING, INC.

DATES

ISSUE DATE: DECEMBER 8, 2016
REVISION:



ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

No.	Date	Desc.

Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	N.T.S.
Project No.	12C4326
Date	12/08/2016

CAD File: TINX12C432602

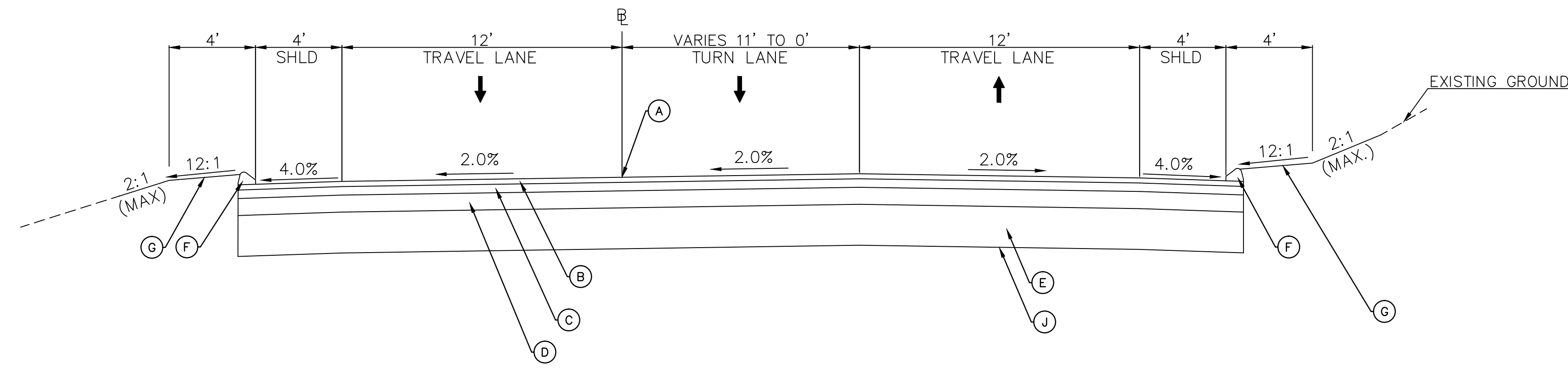
Title
INDEX PLAN

Sheet No.

INX-1

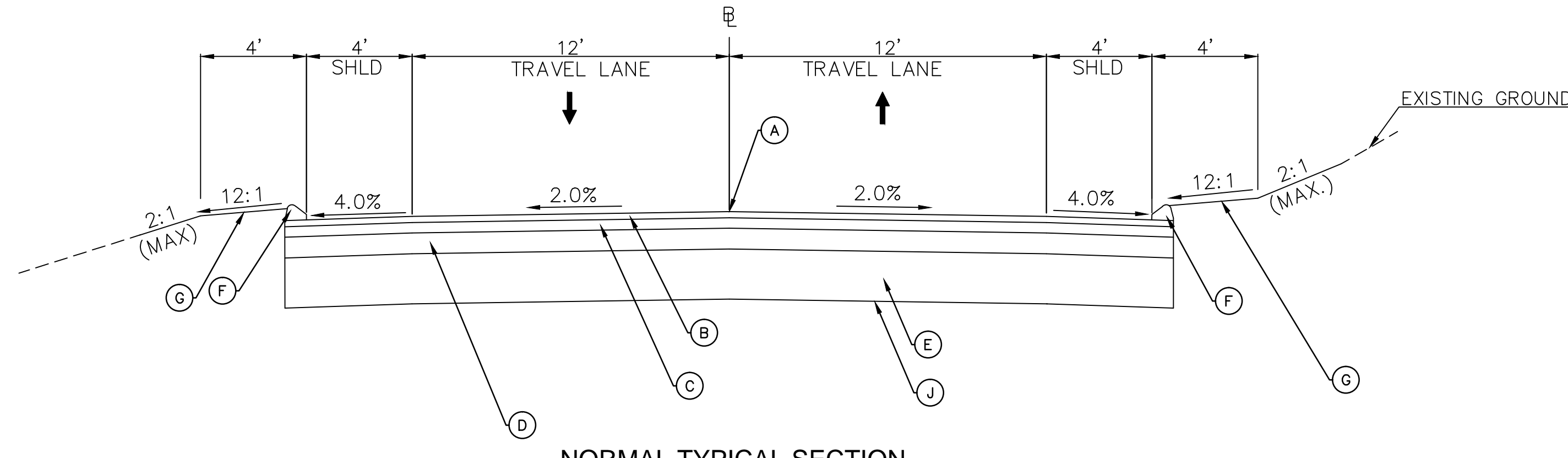
LEGEND

- (A) POINT OF APPLICATION OF GRADE
- (B) 2" HMA S0.375
- (C) 3" HMA S0.5
- (D) 5" PROCESSED AGGREGATE BASE
- (E) 12" SUBBASE (FREE DRAINING)
- (F) BITUMINOUS CONCRETE LIP CURBING
- (G) 4" TOP SOIL AND TURF ESTABLISHMENT
- (H) 4" STONE DUST (CRUSHED STONE BEDDING MATERIAL)
- (I) 6" SUBBASE (FREE DRAINING)
- (J) FORMATION OF SUBGRADE
- (K) SPLIT RAIL FENCE
- (L) GEOTEXTILE SEPARATION - MEDIUM SURVIVABILITY
- (M) 1.25" HMA S0.25
- (N) 2" HMA S0.5
- (O) 3" HMA S0.375
- (P) 8" GRANULAR FILL



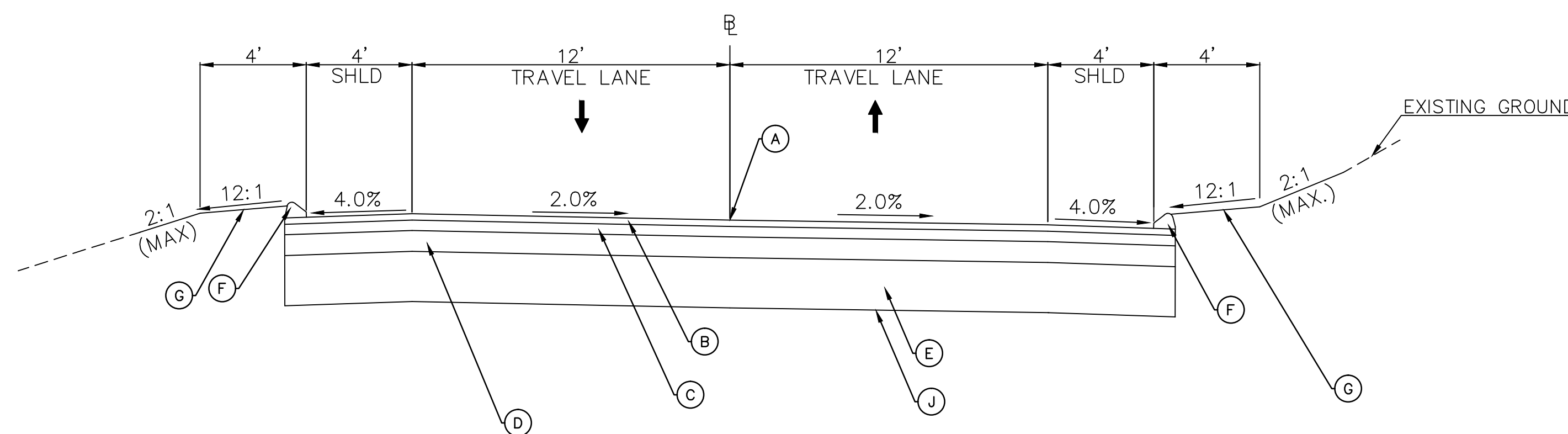
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PEPPER STREET
STA. 87+00.00 TO 90+10.00
NOT TO SCALE



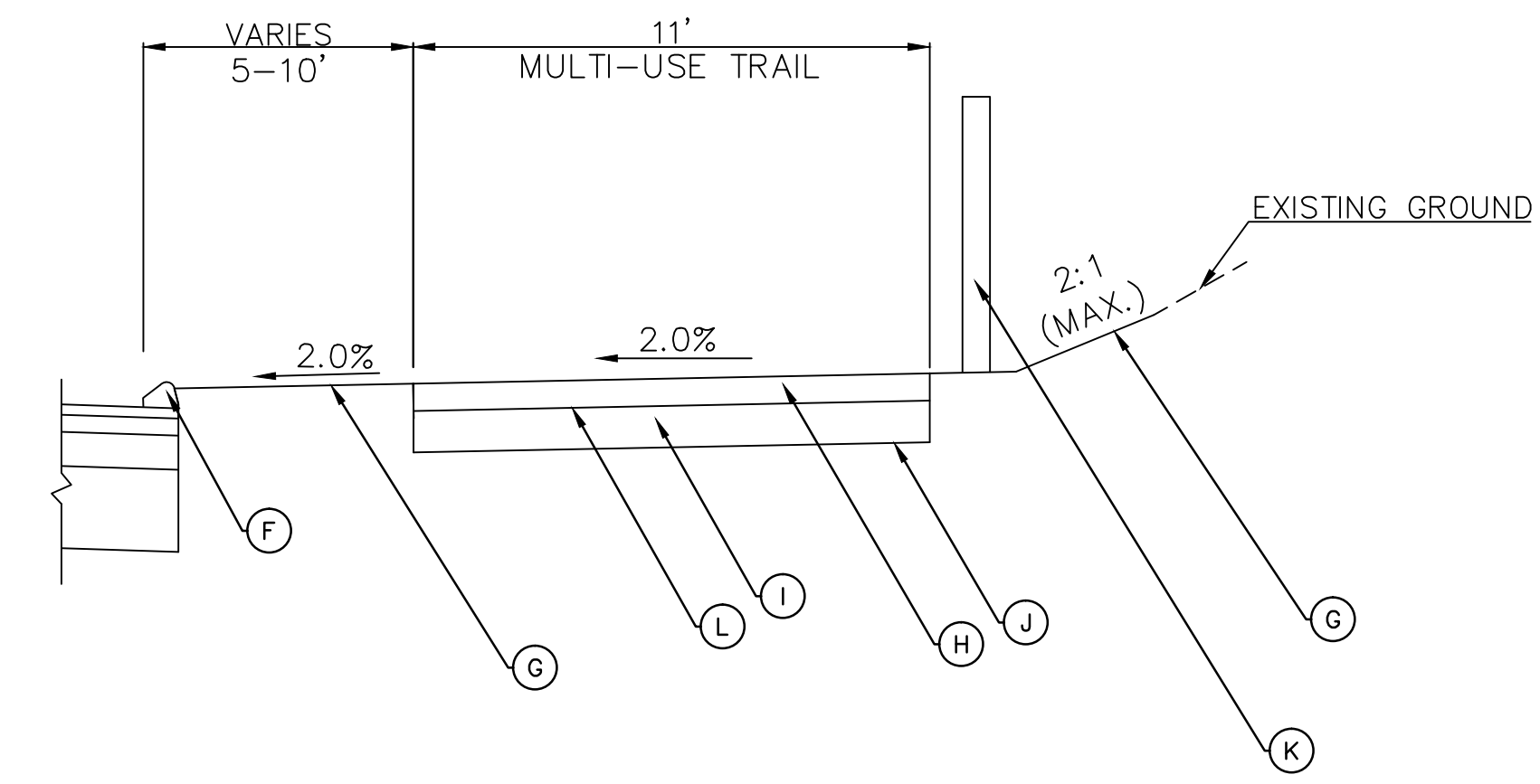
NORMAL TYPICAL SECTION

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(SEE CROSS SECTIONS FOR SUPERELEVATION DETAILS)
(SEE PLANS FOR UNDERDRAIN LOCATIONS)



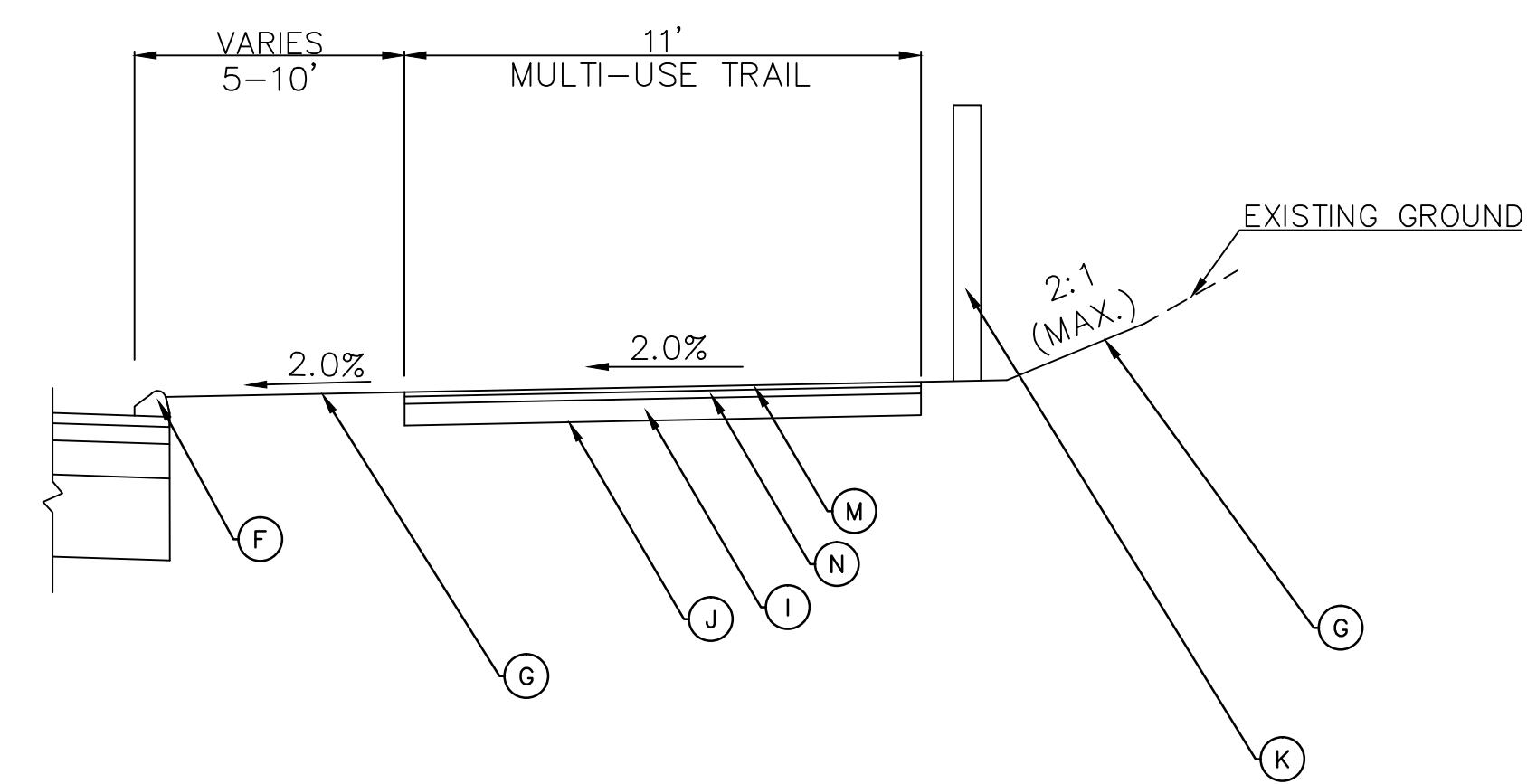
SUPERELEVATED TYPICAL SECTION

PEPPER STREET
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(SEE CROSS SECTIONS FOR SUPERELEVATION DETAILS)
(SEE PLANS FOR UNDERDRAIN LOCATIONS)



TYPICAL DETAIL OF GRAVEL MULTI-USE TRAIL

NOT TO SCALE
(SEE PLANS FOR LOCATION OF MULTI-USE TRAIL)



TYPICAL DETAIL OF BITUMINOUS MULTI-USE TRAIL

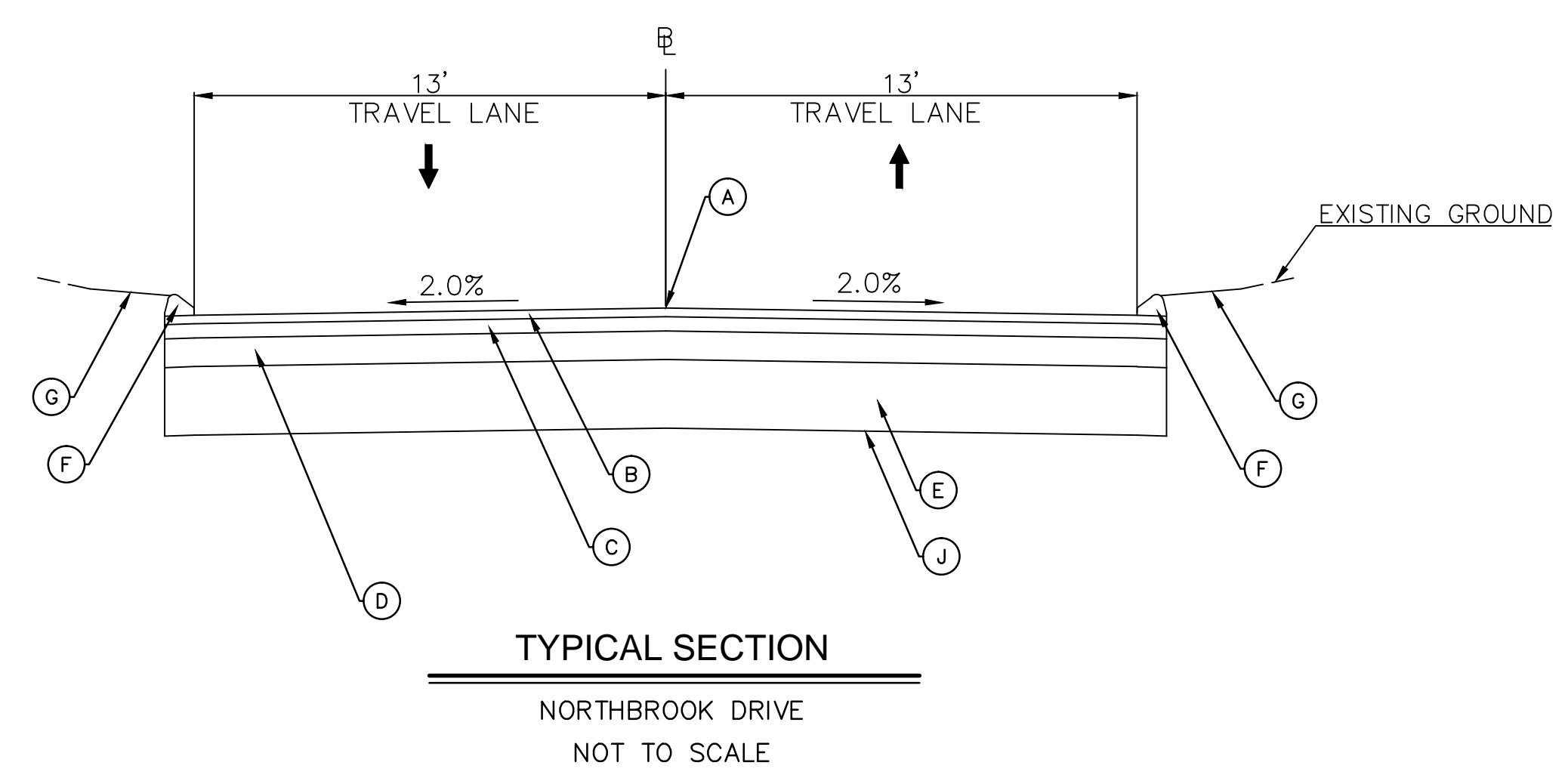
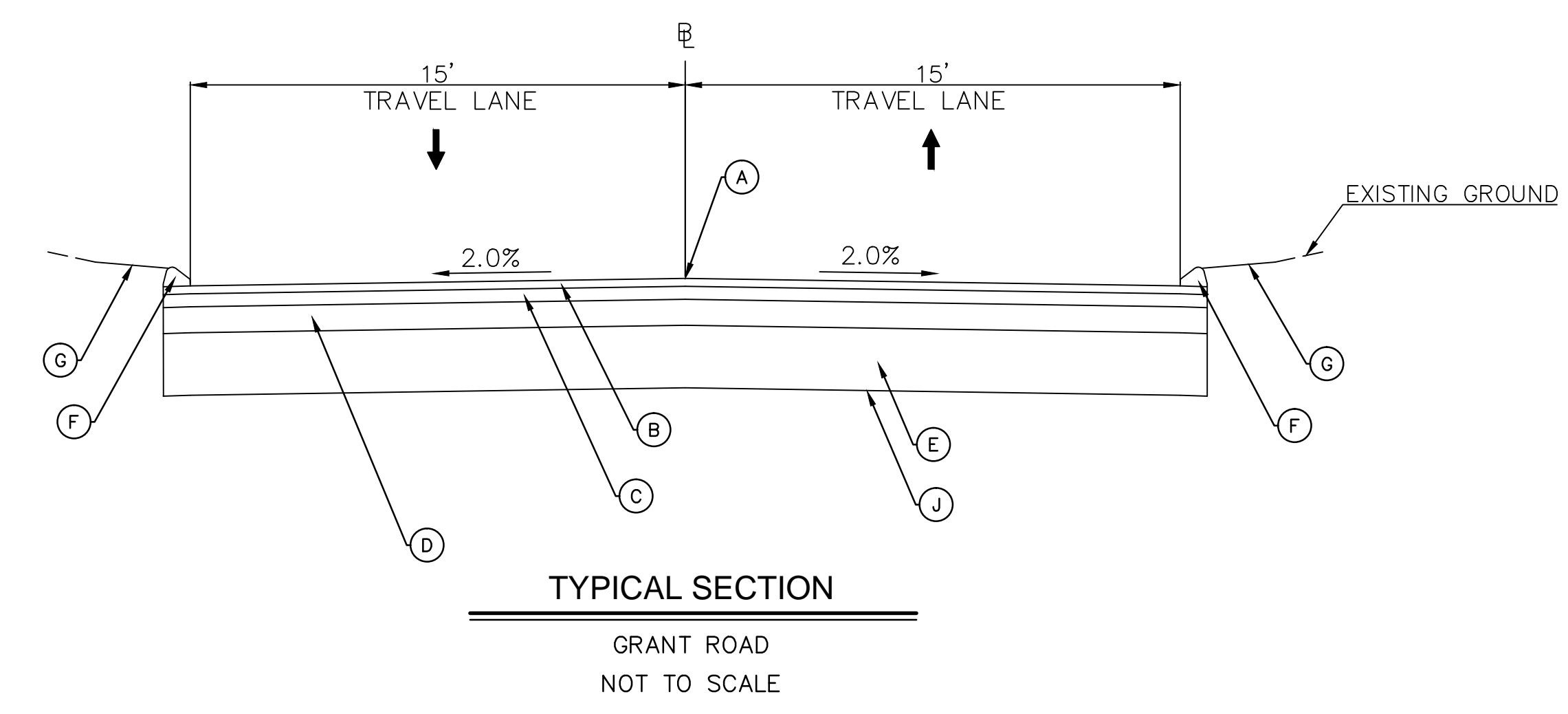
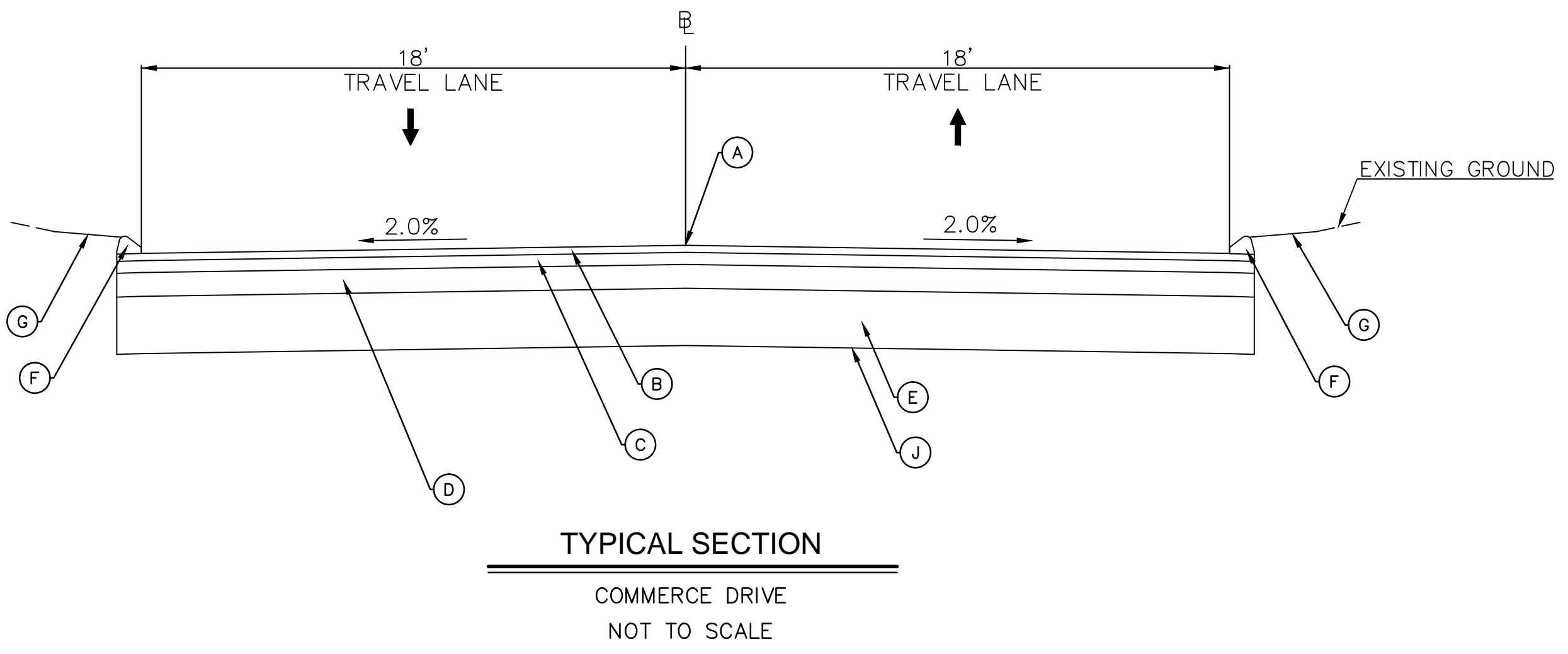
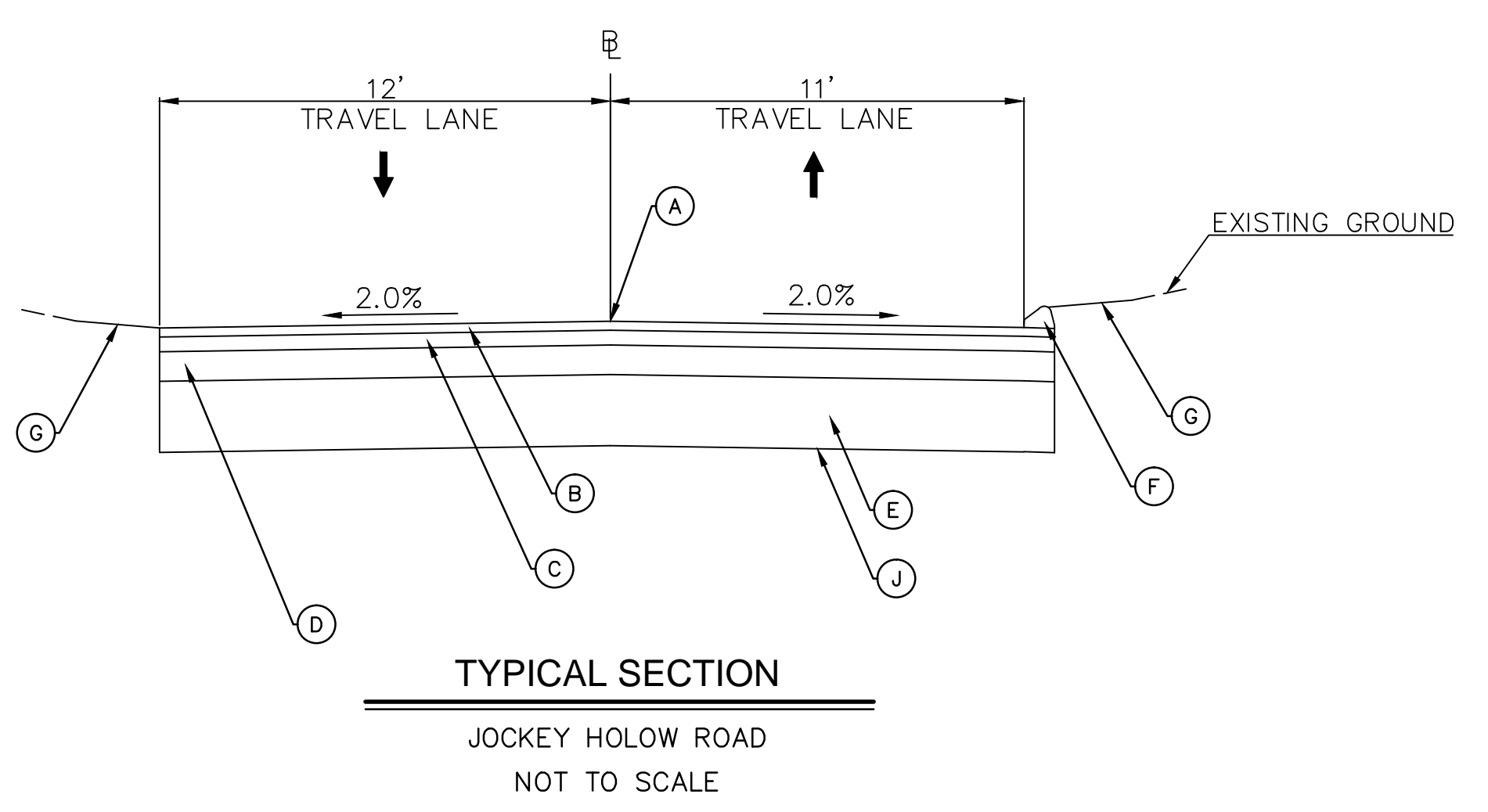
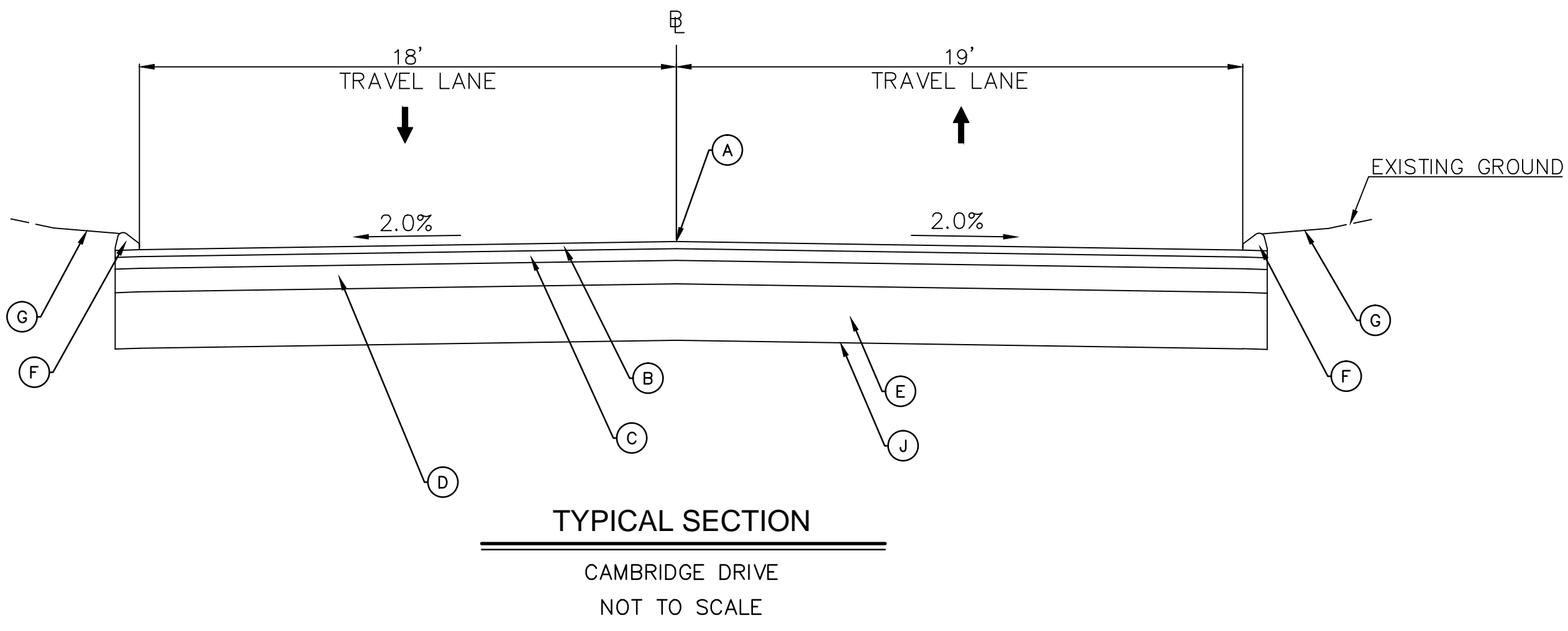
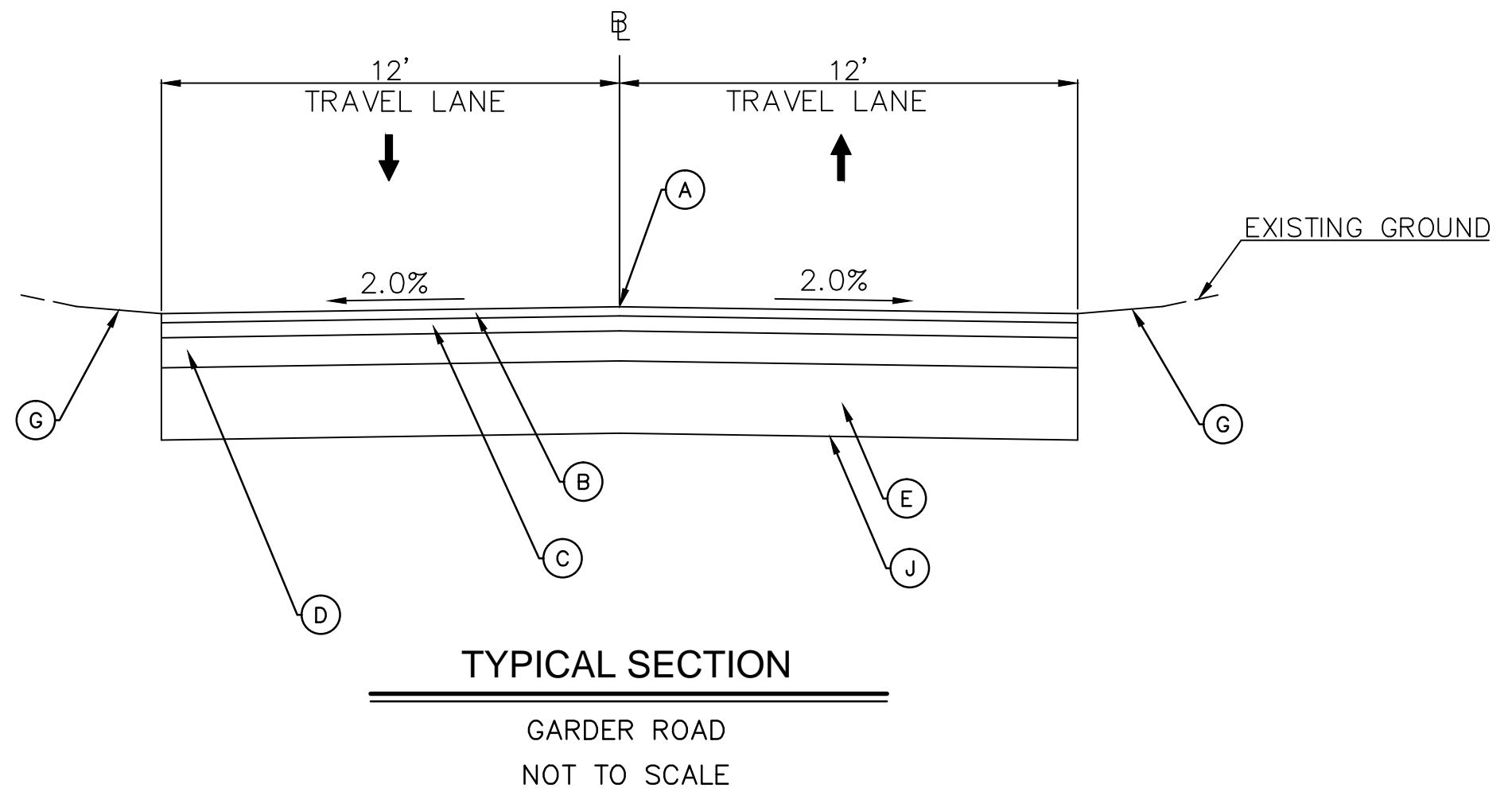
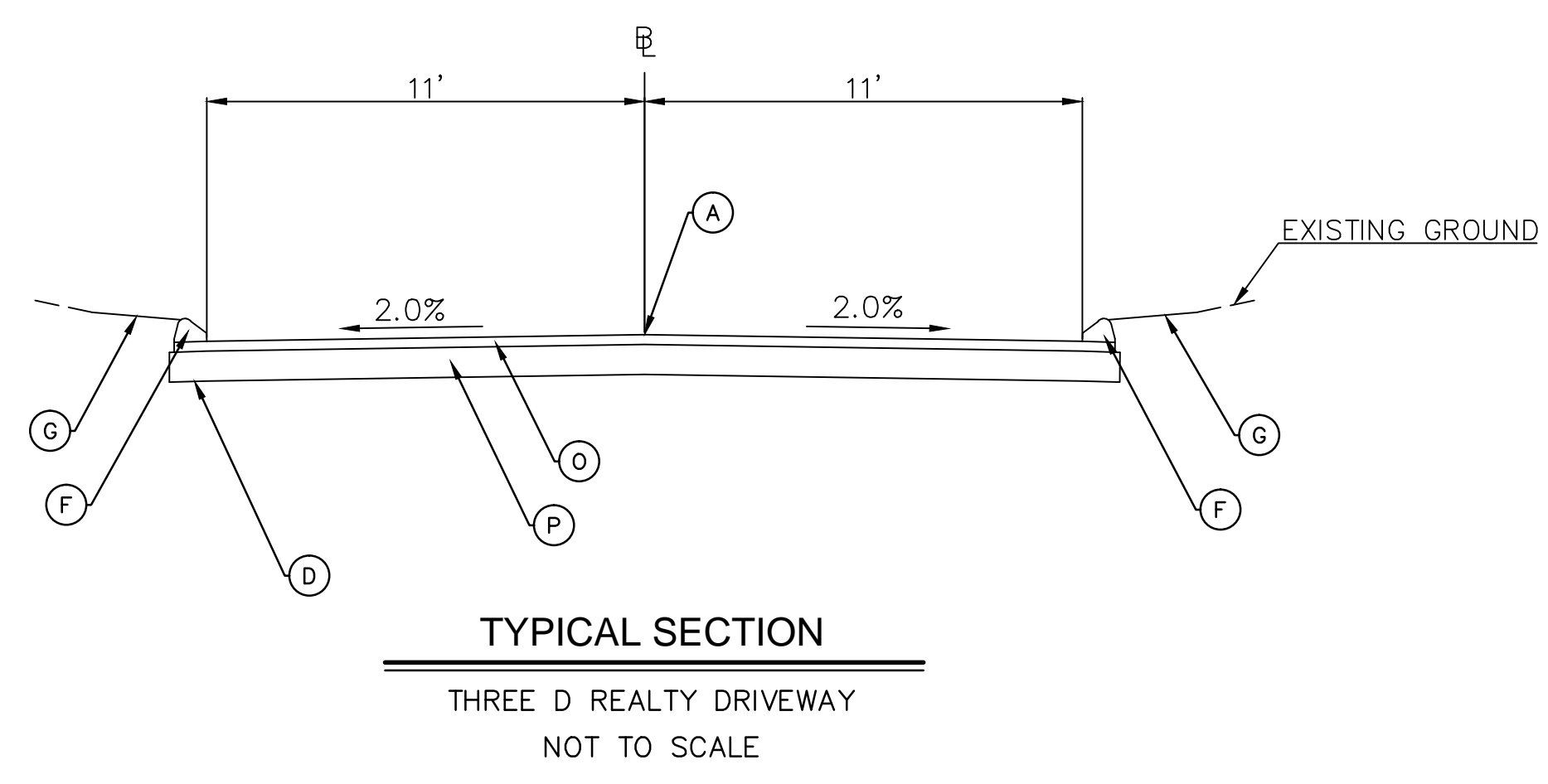
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(SEE PLANS FOR LOCATION OF MULTI-USE TRAIL)

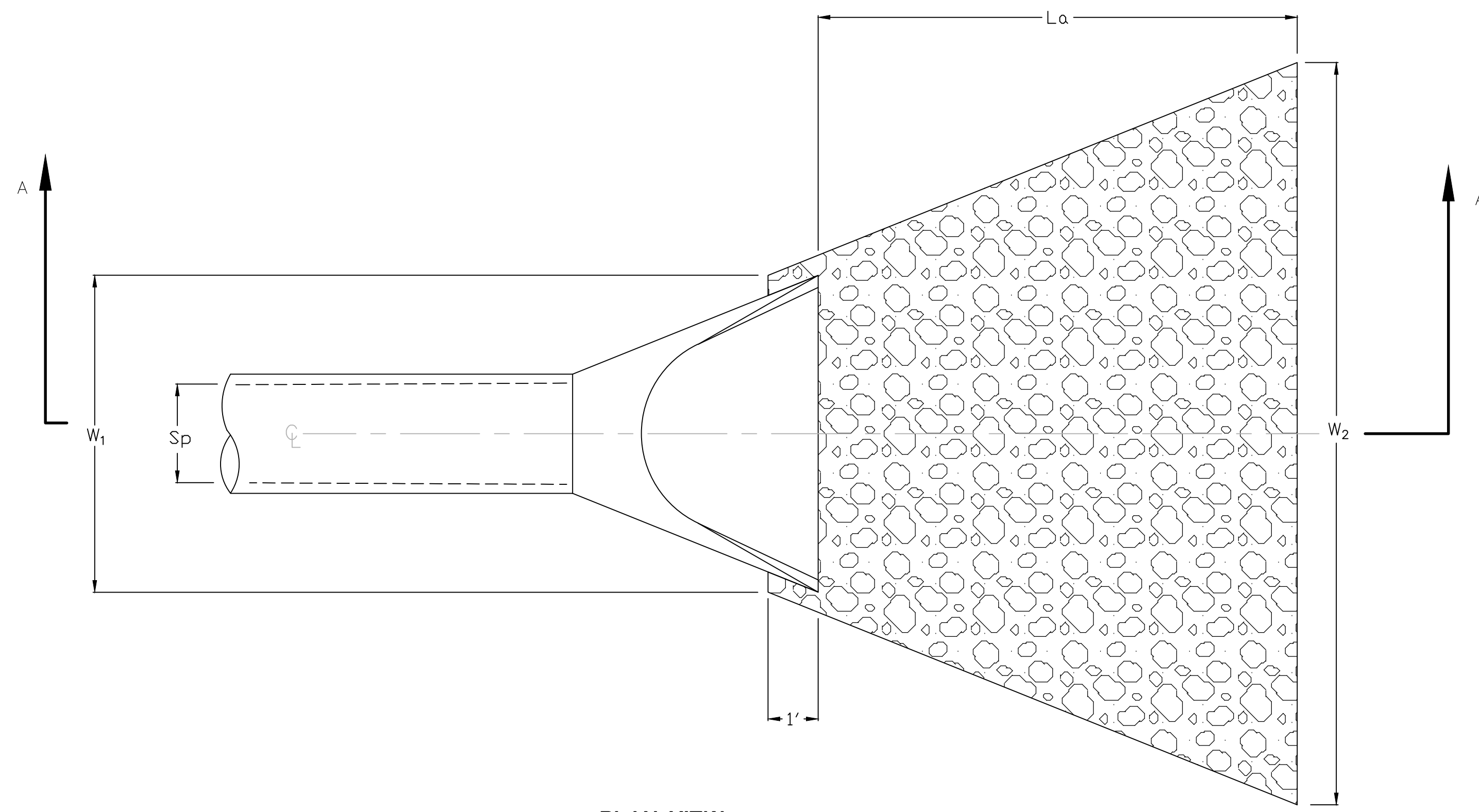
REVISIONS	No.	Date	Desc.

Designed	O.L.C.
Drawn	O.L.C.
Checked	B.J.P.
Approved	
Scale	N.T.S.
Project No.	12C4326
Date	12/08/2016
CAD File:	TTYP12C432601

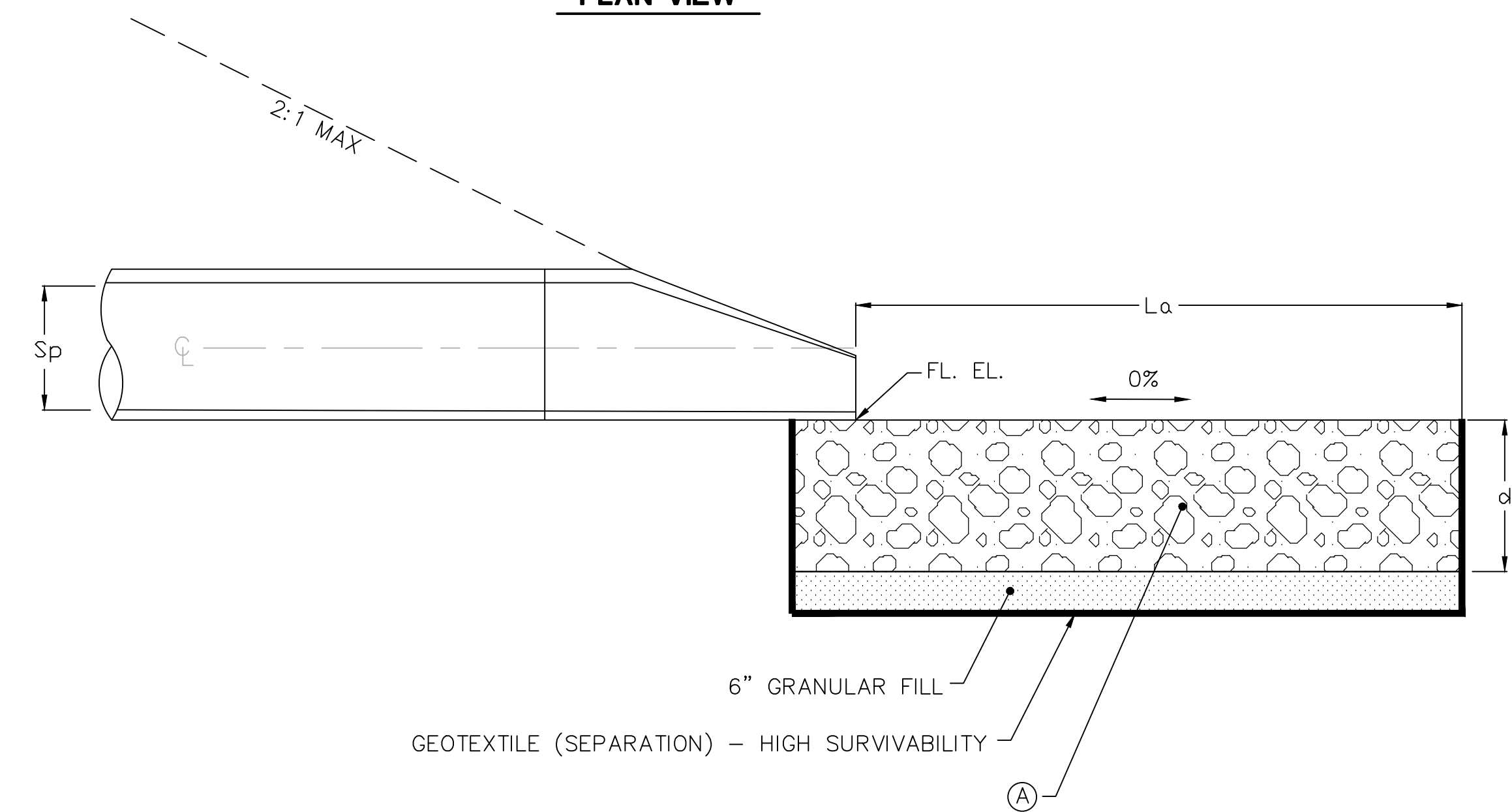
LEGEND

- (A) POINT OF APPLICATION OF GRADE
- (B) 2" HMA S0.375
- (C) 3" HMA S0.5
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- (M) 1.25" HMA S0.25
- (N) 2" HMA S0.5
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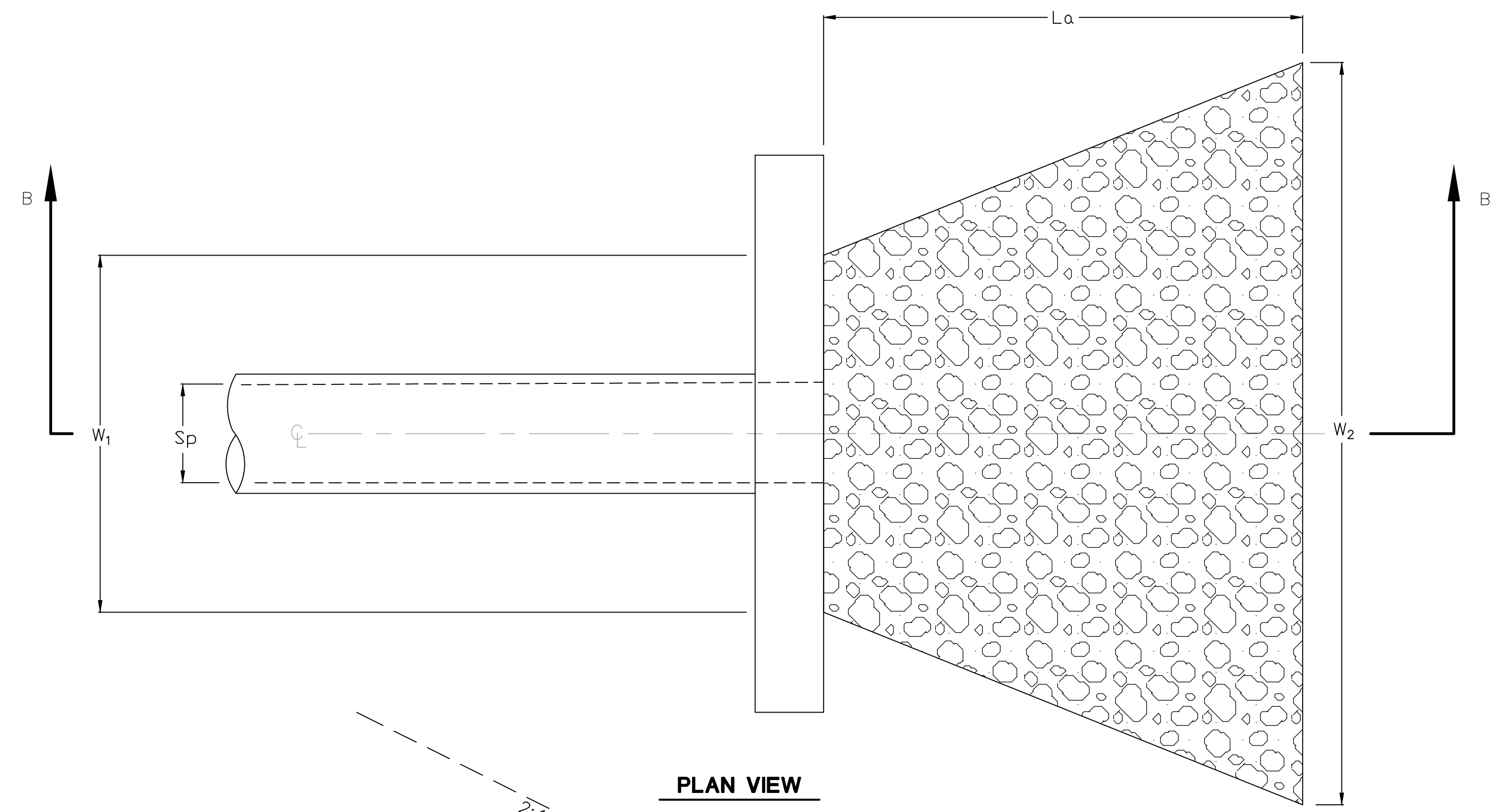
PLAN VIEW



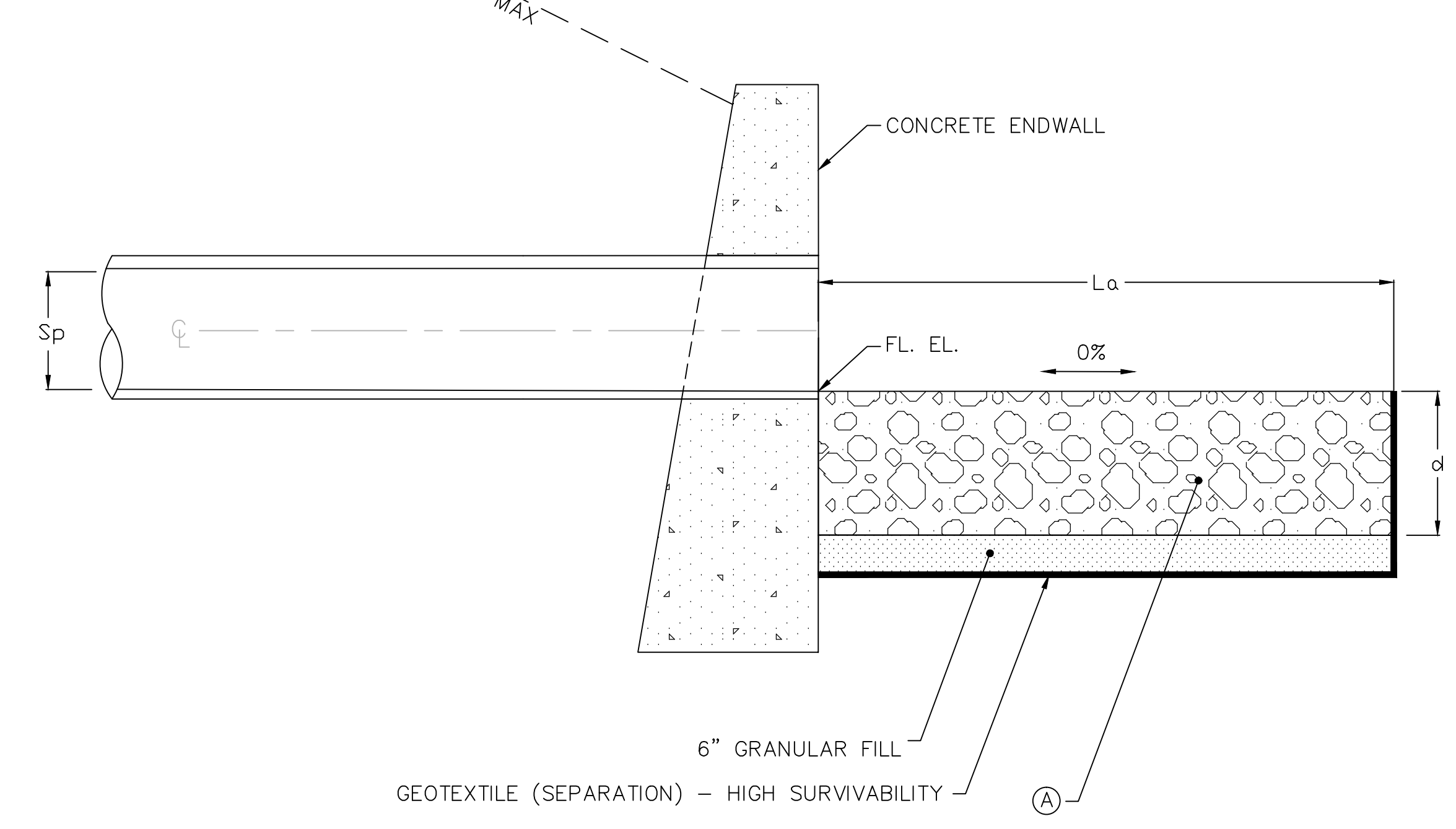
SECTION A-A

RIPRAP APRON WITH CULVERT END

N.T.S.



PLAN VIEW



SECTION B-B

RIPRAP APRON WITH ENDWALL

N.T.S.

ALIGNMENT	STATION	La	W ₁	W ₂	Sp	d	A	APRON TYPE	END
PEPPER STREET	90+00, 31 RT	6.5'	3.75'	8.3'	15"	12"	MODIFIED RIPRAP	TYPE A	ENDWALL
PEPPER STREET	110+32, 111 LT	6.5'	3.75'	6.5'	15"	12"	MODIFIED RIPRAP	TYPE B	ENDWALL
PEPPER STREET	130+00, 39 LT	10'	3.75'	10.75'	15"	12"	MODIFIED RIPRAP	TYPE A	R.C. CULVERT END
COMMERCE DRIVE	20+68, 39 LT	10'	6'	13'	24"	18"	MODIFIED RIPRAP	TYPE A	ENDWALL

REVISIONS	No.	Date	Desc.

Designed: C.E.P.
 Drawn: E.L.Z.
 Checked: AS SHOWN
 Approved: 12C4326
 Scale: 12C4326
 Project No.: 12C4326
 Date: 12/08/2016
 CAD File: TMD512C432601

Title: MISCELLANEOUS DETAILS

Sheet No.

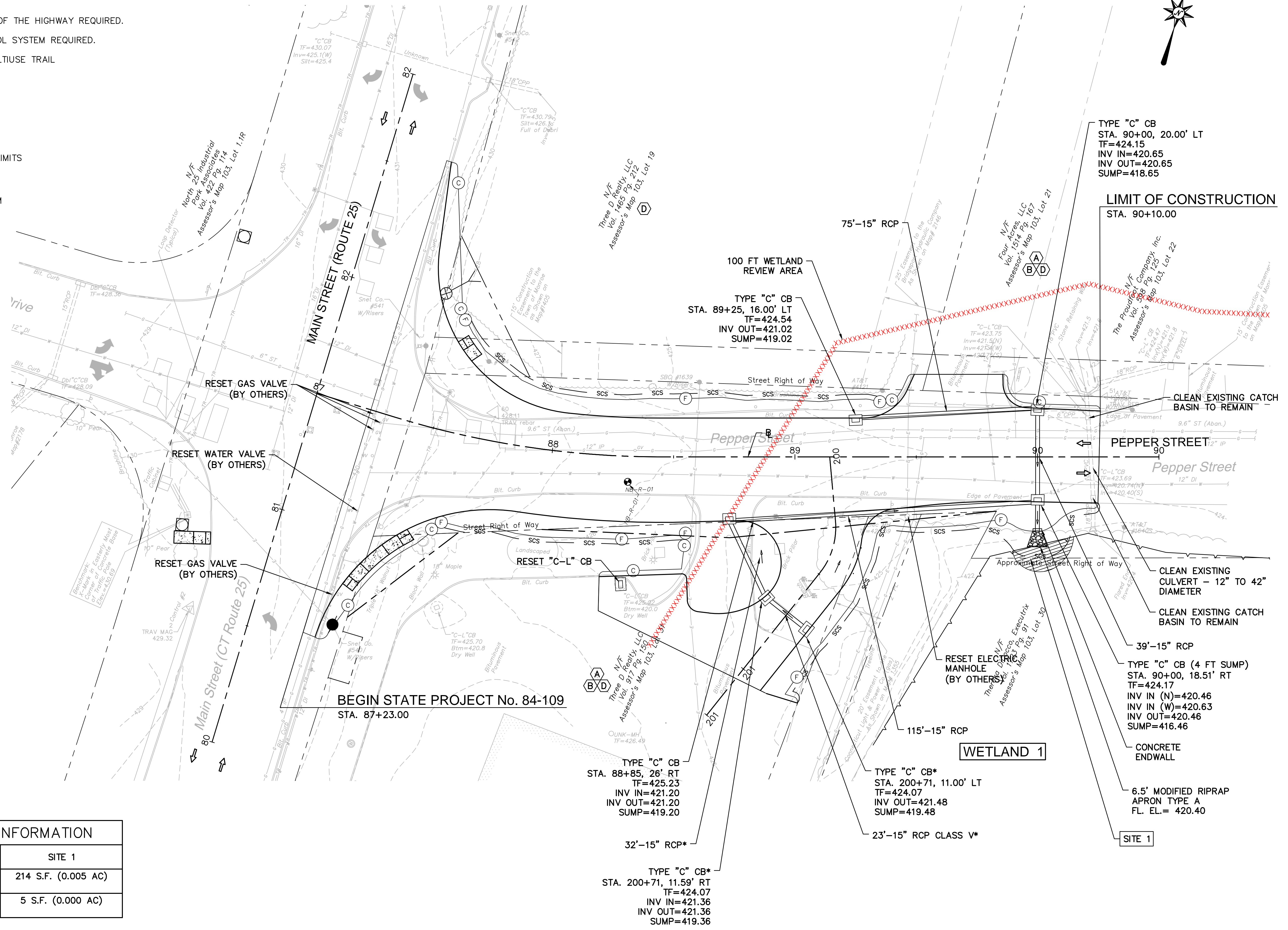
MDS-1

SCHEDULE OF RIGHTS AND EASEMENTS

- (A) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED.
- (B) RIGHT TO GRADE REQUIRED.
- (C) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY REQUIRED.
- (D) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED.
- (E) EASEMENT TO CONTRACT & MAINTAIN MULTIUSE TRAIL
- (F) EASEMENT TO DRAIN REQUIRED.

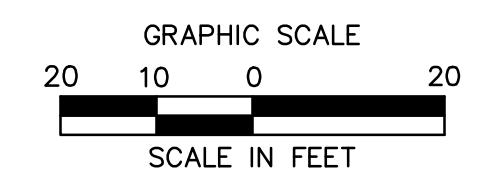
LEGEND:

- (FC) FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS — SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION
- ▨ TEMPORARY IMPACTS
- PERMANENT IMPACTS



WETLAND IMPACT INFORMATION	
SITE 1	
AREA OF TEMPORARY IMPACT	214 S.F. (0.005 AC)
AREA OF PERMANENT IMPACT	5 S.F. (0.000 AC)

WETLAND 1	
IMPACTS WITHIN 100FT WETLAND REVIEW AREA	1,294 S.Y. (0.267 AC)



355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

No.	Date	Desc.
DESIGNED		
DRAWN		C.L.M
CHECKED		M.F.
APPROVED		
SCALE		1"=20'
PROJECT NO.		12C4326
DATE		12/08/2016
CAD FILE:		TEP12C432602
TITLE		ENVIRONMENTAL IMPACT PLAN
SHEET NO.		

EIP-1

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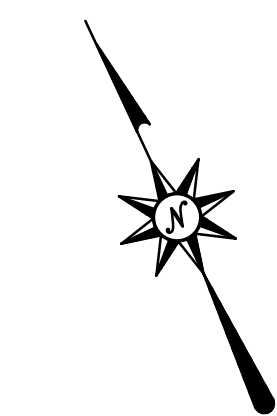
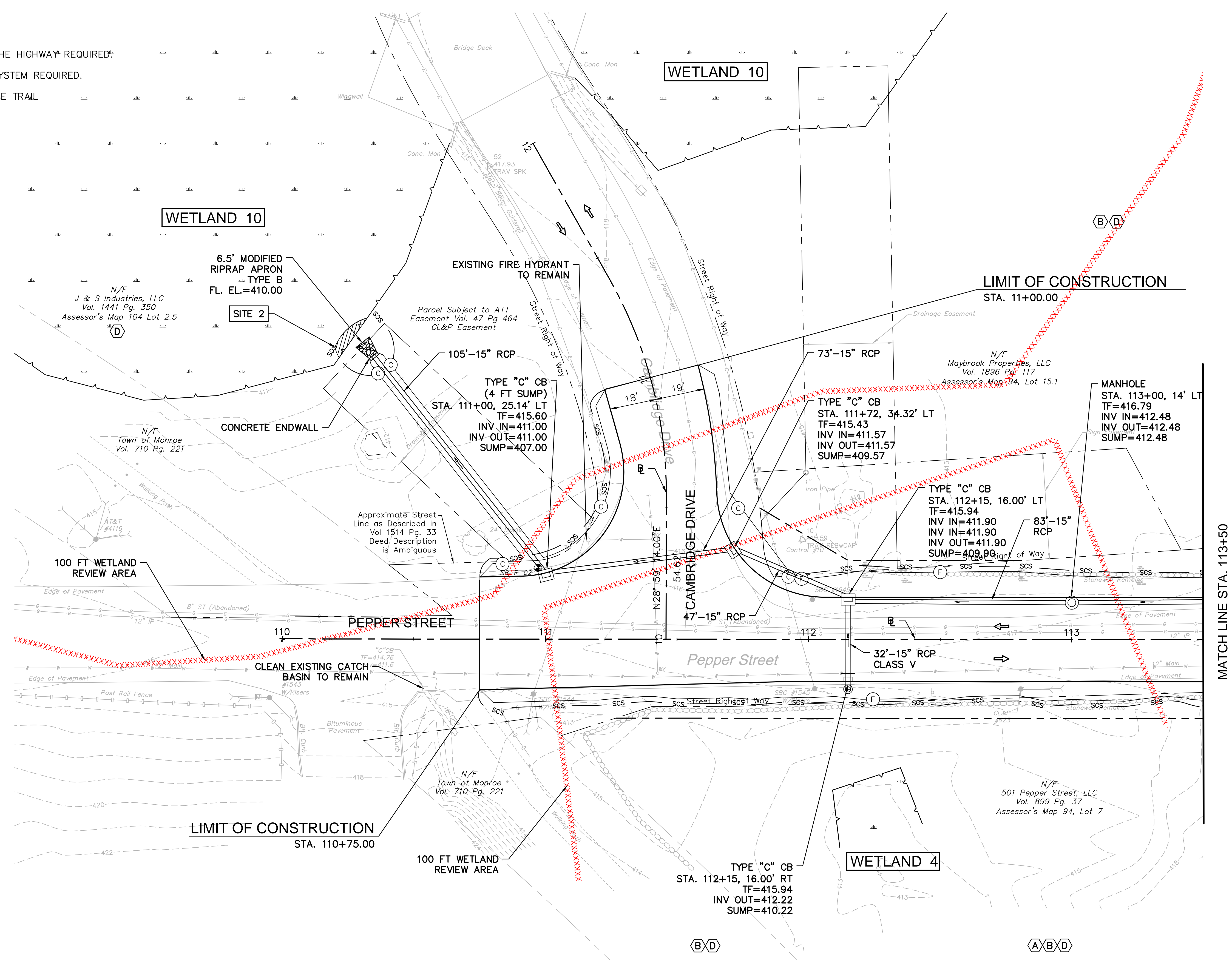
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SCHEDULE OF RIGHTS AND EASEMENTS

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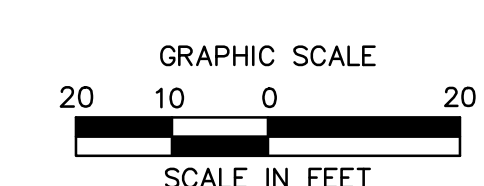
LEGEND:

- (F/C) FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- scs SEDIMENTATION CONTROL SYSTEM
- TEMPORARY IMPACTS



WETLAND IMPACT INFORMATION	
	SITE 2
AREA OF TEMPORARY IMPACT	55 S.F. (0.001 AC)
AREA OF PERMANENT IMPACT	0 S.F. (0.000 AC)

	WETLAND 10	WETLAND 4
IMPACTS WITHIN 100FT WETLAND REVIEW AREA	207 S.Y. (0.043 AC)	1,182 S.Y. (0.244 AC)



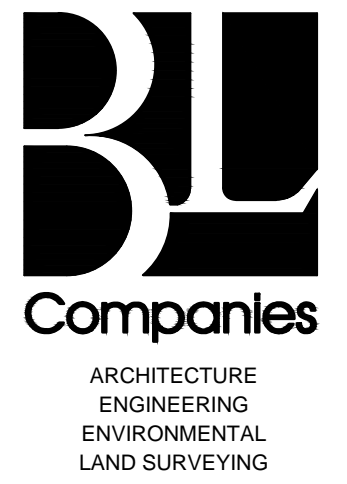
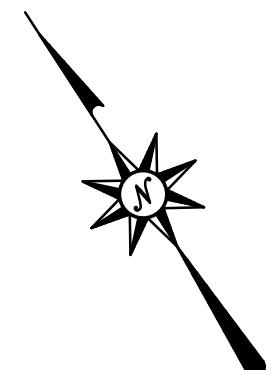
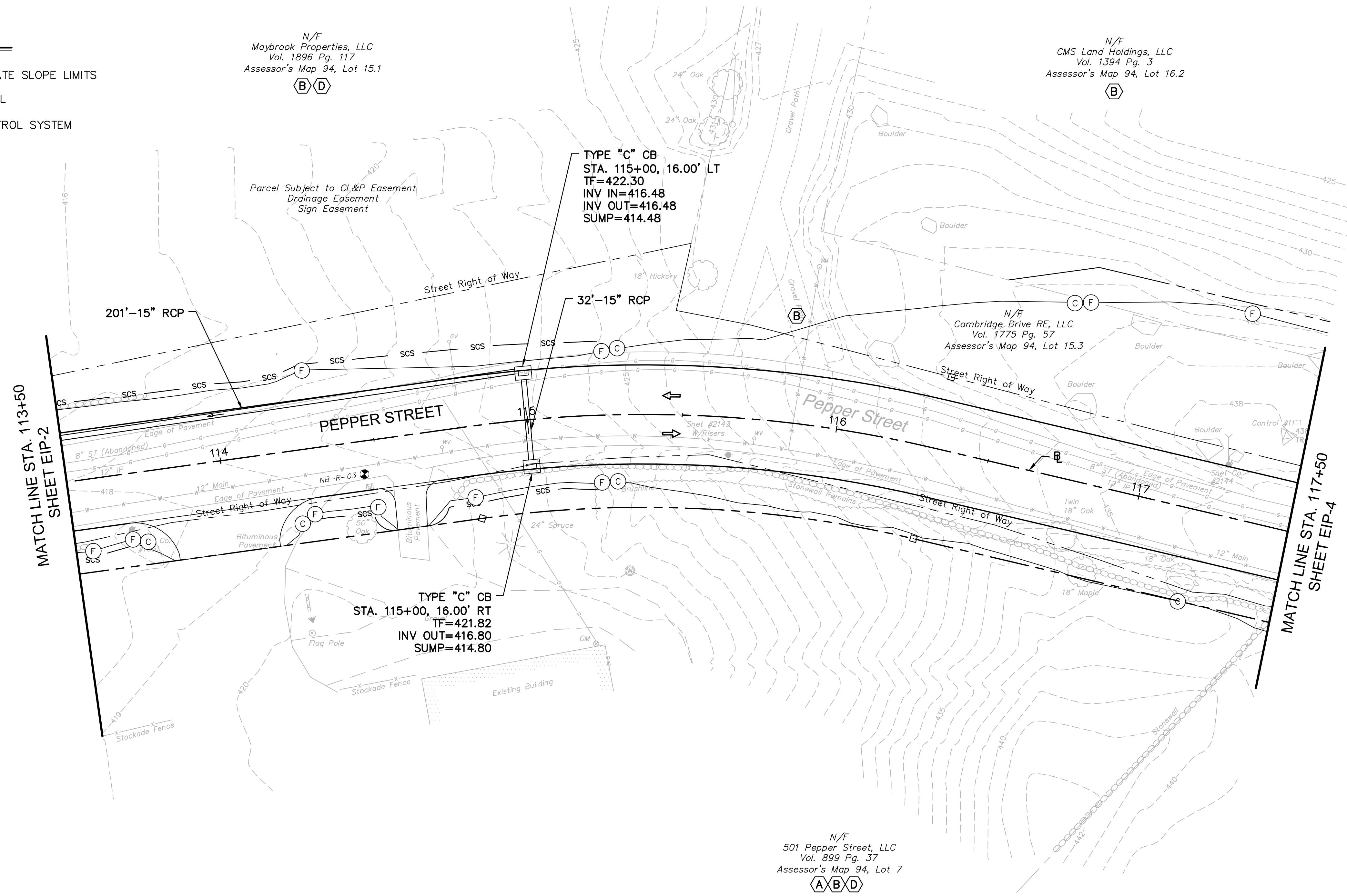
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SCHEDULE OF RIGHTS AND EASEMENTS

- (A) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED.
- (B) RIGHT TO GRADE REQUIRED.
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LEGEND:

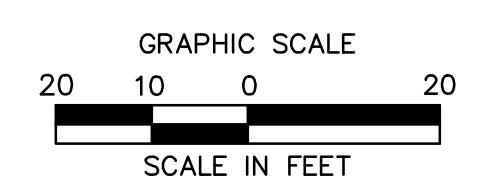
- (F)(C) FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS SEDIMENTATION CONTROL SYSTEM
- ⊙ BORING LOCATION



355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

REVISIONS	No.	Date	Desc.
Designed			C.L.M.
Drawn			M.F.
Checked			
Approved			
Scale			1"=20'
Project No.			12C4326
Date			12/08/2016
CAD File:	TEIP12C432602		
Title	ENVIRONMENTAL IMPACT PLAN		
Sheet No.	EIP-3		



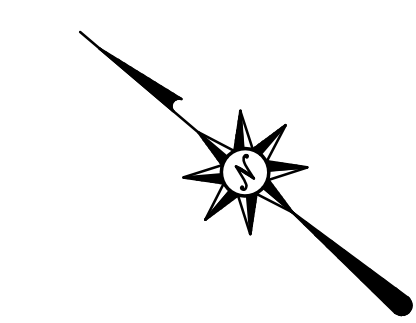
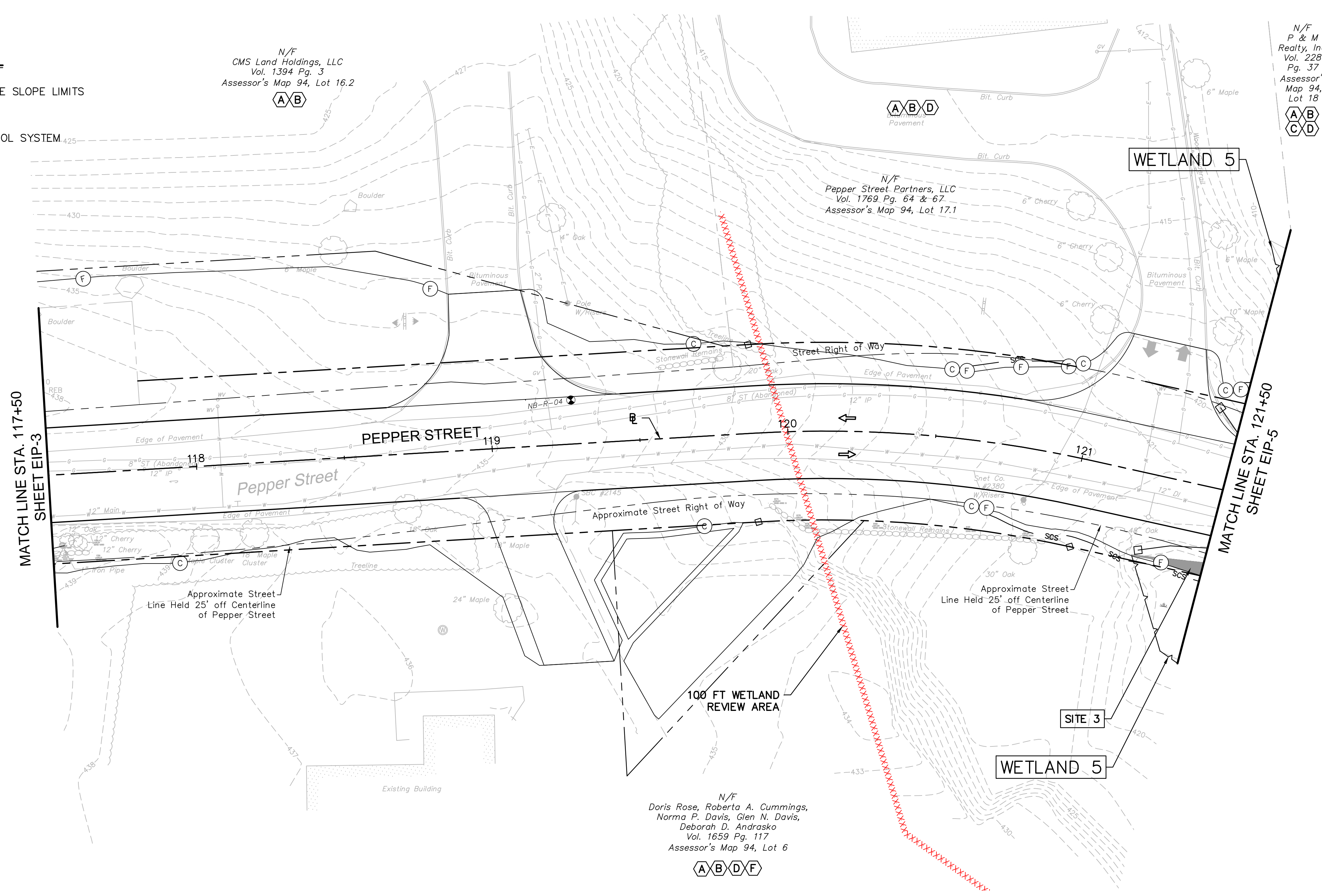
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SCHEDULE OF RIGHTS AND EASEMENTS

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LEGEND:

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- DIRECTION OF TRAVEL
- scs — SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION
- ▨ PERMANENT IMPACTS

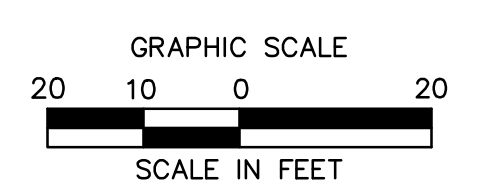


355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

REVISIONS	No.	Date	Desc.

Designed	C.L.M.
Drawn	M.F.
Checked	
Approved	
Scale	1"=20'
Project No.	12C4326
Date	12/08/2016
CAD File:	TEIP12C432602
Title	ENVIRONMENTAL IMPACT PLAN



NOTE: SEE SHEET NO. EIP-5 FOR SITE 3 WETLAND IMPACT INFORMATION.

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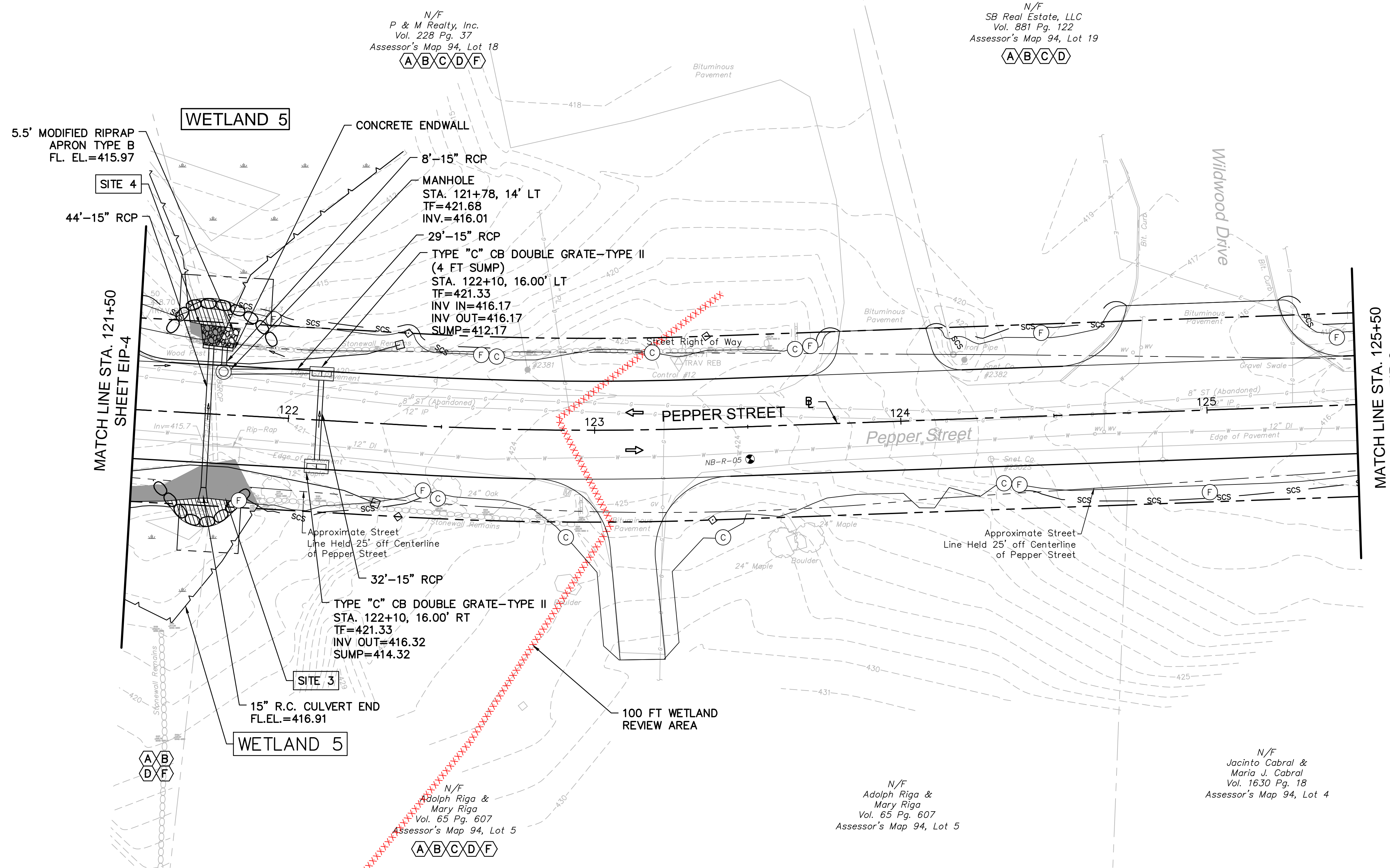
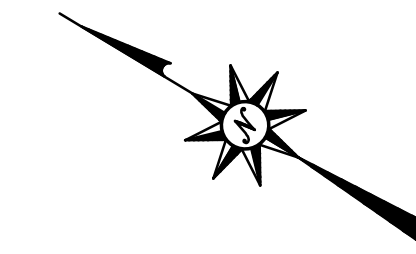
Sheet No. **EIP-4**

SCHEDULE OF RIGHTS AND EASEMENTS

- (A) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED.
- (B) RIGHT TO GRADE REQUIRED.
- (C) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY REQUIRED.
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- (F) EASEMENT TO DRAIN REQUIRED.

LEGEND:

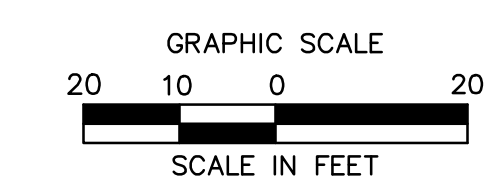
- (C)— FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS — SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION
- ▨ TEMPORARY IMPACTS
- PERMANENT IMPACTS



WETLAND IMPACT INFORMATION

	SITE 3	SITE 4	TOTAL WETLAND 5
AREA OF TEMPORARY IMPACT	156 S.F. (0.004 AC)	117 S.F. (0.003 AC)	273 S.F. (0.006 AC)
AREA OF PERMANENT IMPACT	394 S.F. (0.009 AC)	57 S.F. (0.001 AC)	451 S.F. (0.010 AC)

	WETLAND 5
IMPACTS WITHIN 100FT WETLAND REVIEW AREA	1,889 S.Y. (0.390 AC)



355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

REVISIONS	No.	Date	Desc.
Designed			C.L.M
Drawn			M.F.
Checked			
Approved			
Scale			1"=20'
Project No.			12C4326
Date			12/08/2016
CAD File:			TEIP12C432602
Title			ENVIRONMENTAL IMPACT PLAN
Sheet No.			

EIP-5

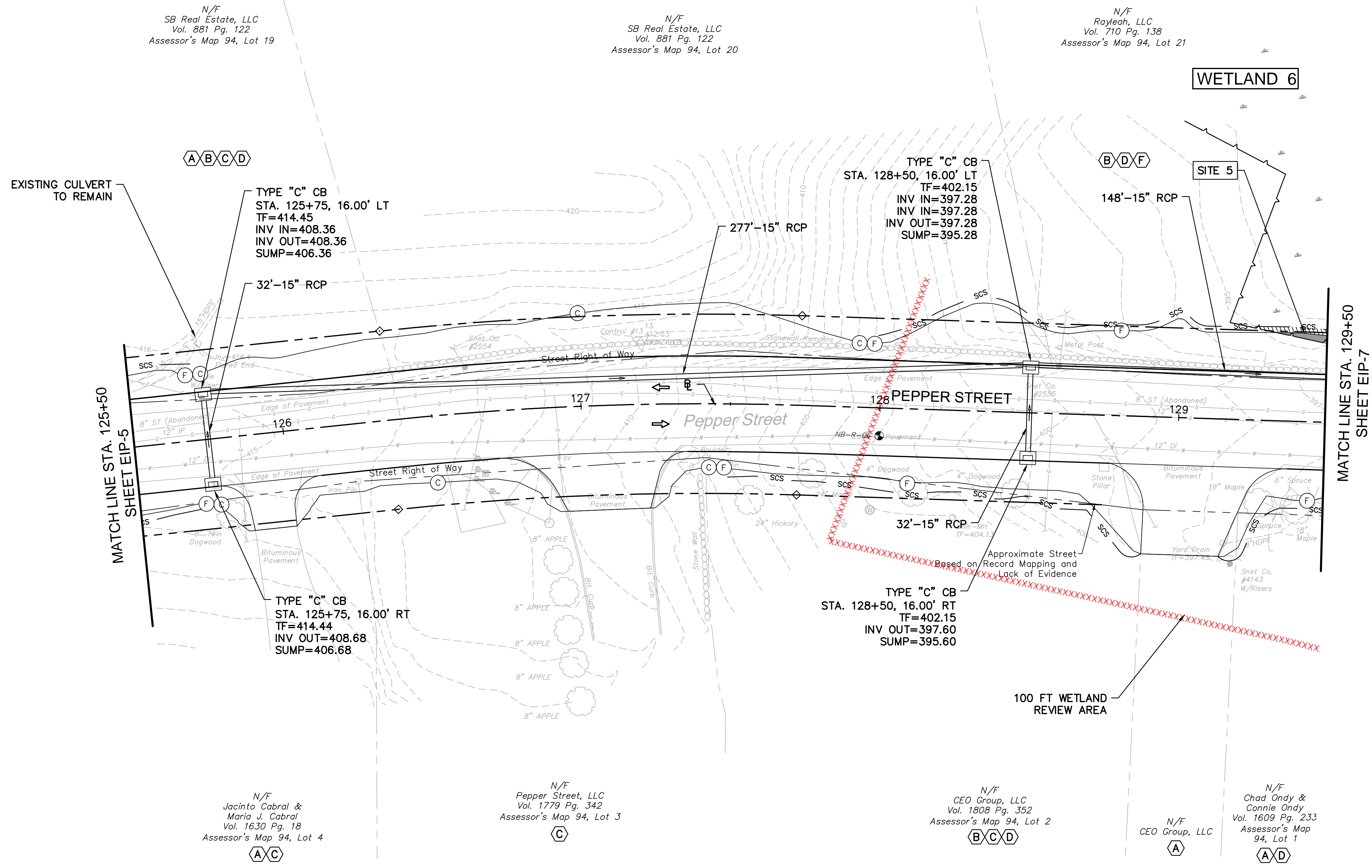
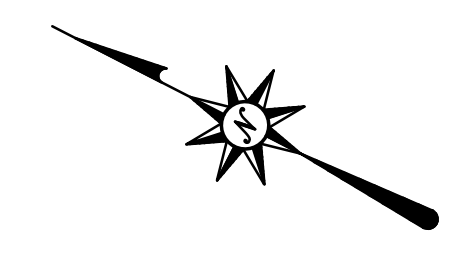
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SCHEDULE OF RIGHTS AND EASEMENTS

- (A) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED.
- (B) RIGHT TO GRADE REQUIRED.
- (C) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY REQUIRED.
- (D) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED.
- (E) EASEMENT TO CONSTRUCT & MAINTAIN MULTIUSE TRAIL
- (F) EASEMENT TO DRAIN REQUIRED.

LEGEND:

- (C)— FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS — SEDIMENTATION CONTROL SYSTEM
- ⊙ BORING LOCATION
- ▨ TEMPORARY IMPACTS
- PERMANENT IMPACTS



N/F
SB Real Estate, LLC
Vol. 881 Pg. 122
Assessor's Map 94, Lot 19

N/F
SB Real Estate, LLC
Vol. 881 Pg. 122
Assessor's Map 94, Lot 20

N/F
Rayleah, LLC
Vol. 710 Pg. 138
Assessor's Map 94, Lot 21

WETLAND 6

(B)(D)(F)

(A)(B)(C)(D)

TYPE "C" CB
STA. 125+75, 16.00' LT
TF=414.45
INV IN=408.36
INV OUT=408.36
SUMP=406.36

TYPE "C" CB
STA. 128+50, 16.00' LT
TF=402.15
INV IN=397.28
INV OUT=397.28
SUMP=395.28

TYPE "C" CB
STA. 125+75, 16.00' RT
TF=414.44
INV OUT=408.68
SUMP=406.68

TYPE "C" CB
STA. 128+50, 16.00' RT
TF=402.15
INV OUT=397.60
SUMP=395.60

N/F
Jacinto Cabral &
Maria J. Cabral
Vol. 1630 Pg. 18
Assessor's Map 94, Lot 4
(A)(C)

N/F
Pepper Street, LLC
Vol. 1779 Pg. 342
Assessor's Map 94, Lot 3
(C)

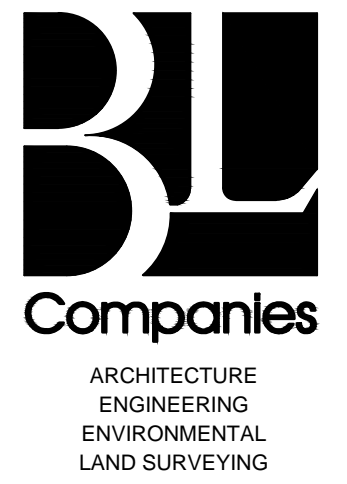
N/F
CEO Group, LLC
Vol. 1808 Pg. 352
Assessor's Map 94, Lot 2
(B)(C)(D)

N/F
CEO Group, LLC
(A)

N/F
Chad Ondy &
Connie Ondy
Vol. 1609 Pg. 233
Assessor's Map
94, Lot 1
(A)(D)

MATCH LINE STA. 125+50
SHEET EIP-5

MATCH LINE STA. 129+50
SHEET EIP-7



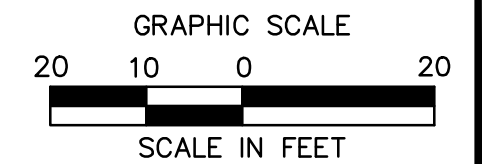
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Meriden, CT 06450
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(203) 630-2615 Fax

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS	No.	Date	Desc.

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Drawn	M.F.
Checked	
Approved	
Scale	1"=20'
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Date	12/08/2016
CAD File:	TEIP12C432602
Title	ENVIRONMENTAL IMPACT PLAN
Sheet No.	

EIP-6



NOTE: SEE SHEET NO. EIP-7 FOR SITE 5 WETLAND IMPACT INFORMATION.

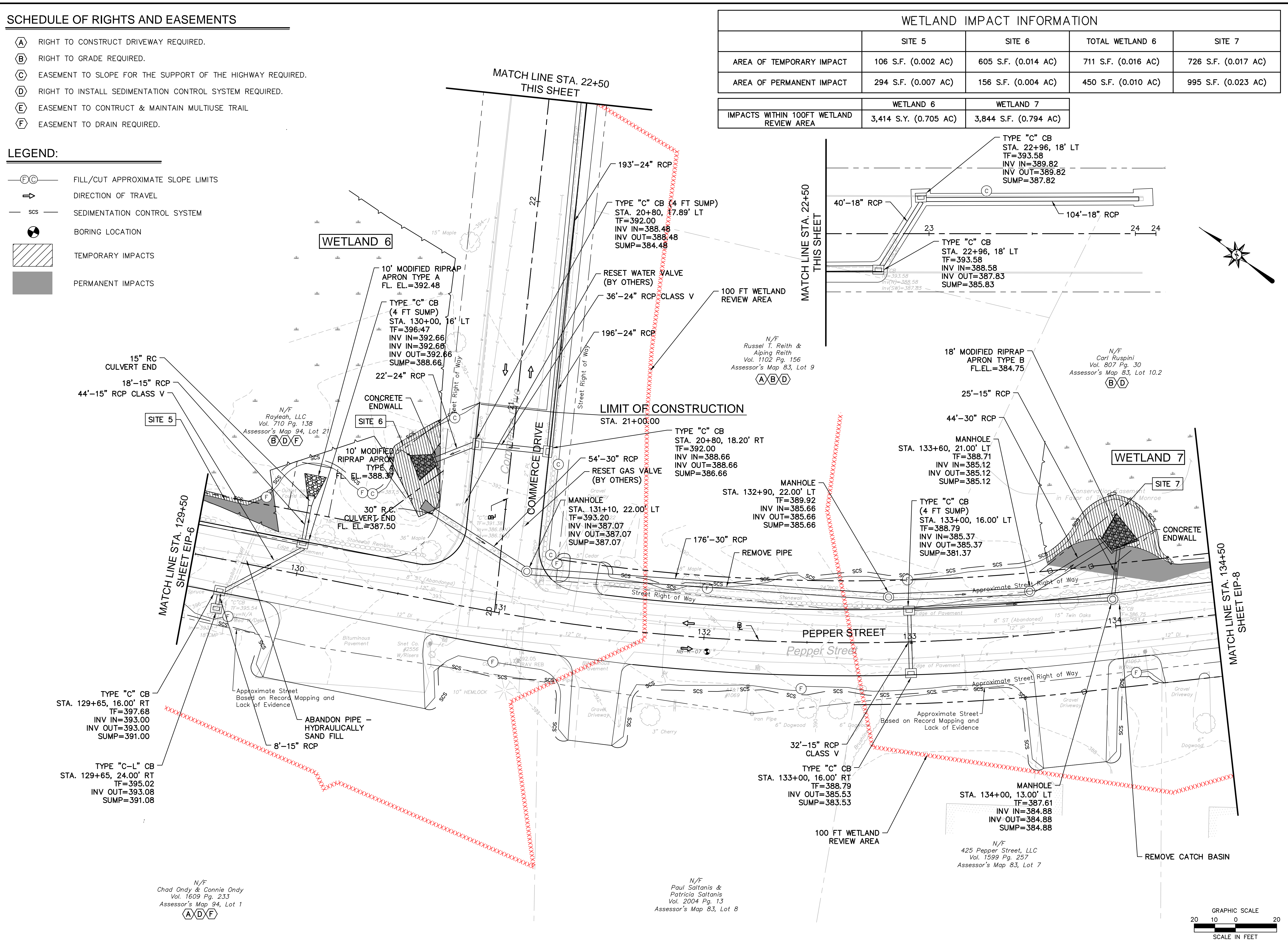
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SCHEDULE OF RIGHTS AND EASEMENTS

- (A) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED.
- (B) RIGHT TO GRADE REQUIRED.
- (C) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY REQUIRED.
- (D) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED.
- (E) EASEMENT TO CONSTRUCT & MAINTAIN MULTIUSE TRAIL
- (F) EASEMENT TO DRAIN REQUIRED.

LEGEND:

- (C)— FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS — SEDIMENTATION CONTROL SYSTEM
- ⊙ BORING LOCATION
- ▨ TEMPORARY IMPACTS
- PERMANENT IMPACTS



WETLAND IMPACT INFORMATION				
	SITE 5	SITE 6	TOTAL WETLAND 6	SITE 7
AREA OF TEMPORARY IMPACT	106 S.F. (0.002 AC)	605 S.F. (0.014 AC)	711 S.F. (0.016 AC)	726 S.F. (0.017 AC)
AREA OF PERMANENT IMPACT	294 S.F. (0.007 AC)	156 S.F. (0.004 AC)	450 S.F. (0.010 AC)	995 S.F. (0.023 AC)
		WETLAND 6	WETLAND 7	
IMPACTS WITHIN 100FT WETLAND REVIEW AREA		3,414 S.Y. (0.705 AC)	3,844 S.F. (0.794 AC)	



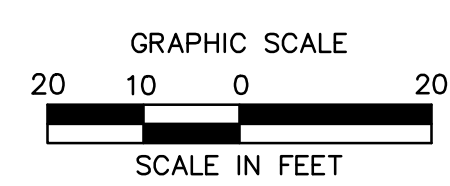
ARCHITECTURE
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ENVIRONMENTAL
LAND SURVEYING

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ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS		Desc.
No.	Date	

Designed	C.L.M
Drawn	M.F.
Checked	
Approved	
Scale	1"=20'
Project No.	12C4326
Date	12/08/2016
CAD File:	TEI12C432602
Title	ENVIRONMENTAL IMPACT PLAN
Sheet No.	EIP-7



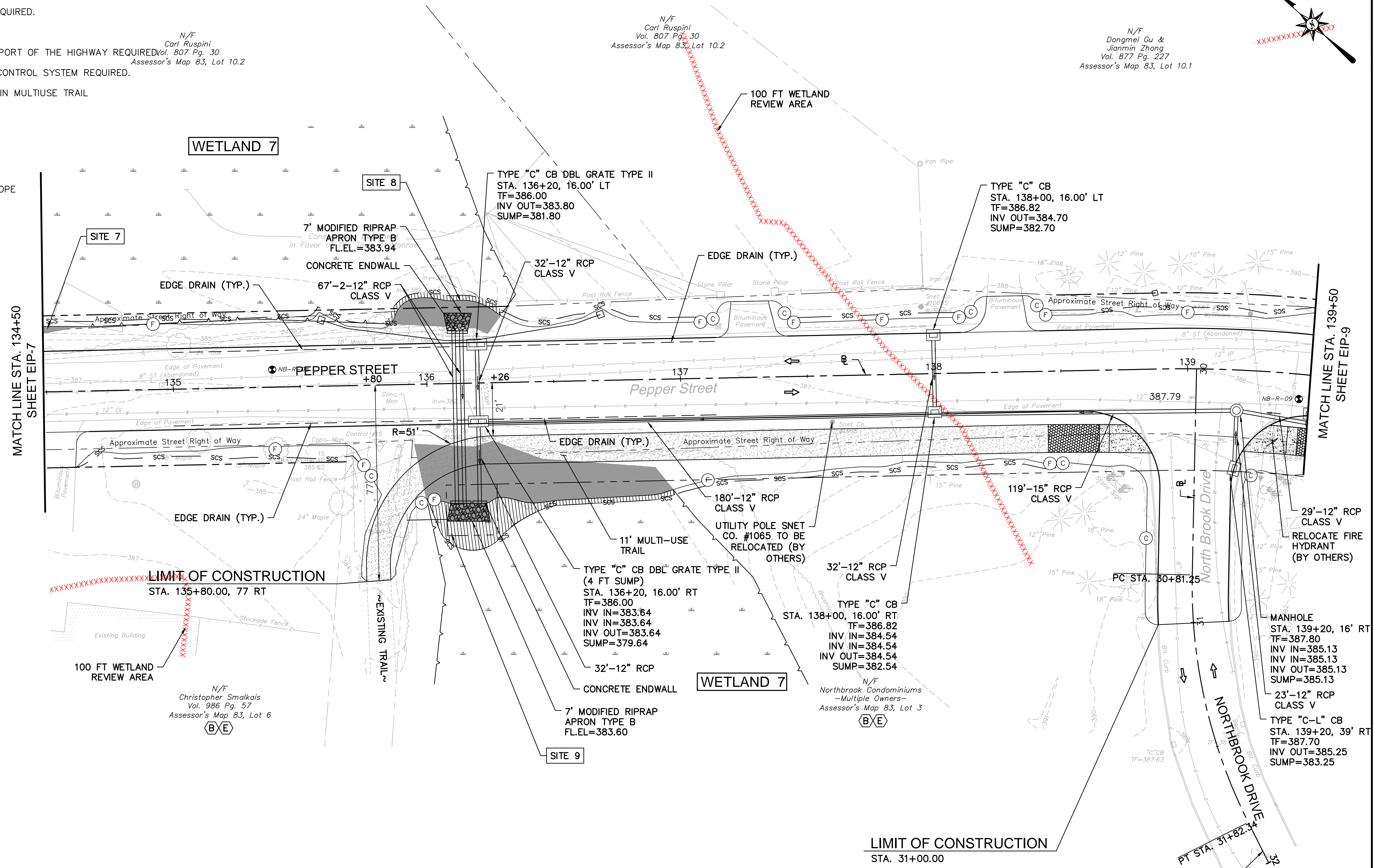
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SCHEDULE OF RIGHTS AND EASEMENTS

- (A) RIGHT TO CONSTRUCT DRIVEWAY REQUIRED.
- (B) RIGHT TO GRADE REQUIRED.
- (C) EASEMENT TO SLOPE FOR THE SUPPORT OF THE HIGHWAY REQUIRED Vol. 807 Pg. 30
- (D) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED.
- (E) EASEMENT TO CONTRACT & MAINTAIN MULTIUSE TRAIL
- (F) EASEMENT TO DRAIN REQUIRED.

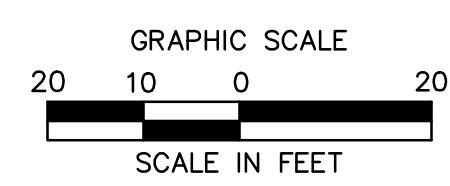
LEGEND:

- (FC) FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS SEDIMENTATION CONTROL SYSTEM
- ⊙ BORING LOCATION
- ▨ TEMPORARY IMPACTS
- PERMANENT IMPACTS



WETLAND IMPACT INFORMATION				
	SITE 7	SITE 8	SITE 9	TOTAL WETLAND 7
AREA OF TEMPORARY IMPACT	726 S.F. (0.017 AC)	106 S.F. (0.002 AC)	565 S.F. (0.014 AC)	1,397 S.F. (0.032 AC)
AREA OF PERMANENT IMPACT	995 S.F. (0.023 AC)	395 S.F. (0.009 AC)	1,785 S.F. (0.040 AC)	3,175 S.F. (0.073 AC)

WETLAND 7	
IMPACTS WITHIN 100FT WETLAND REVIEW AREA	3,844 S.Y. (0.794 AC)



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ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

No.	Date	Desc.
DESIGNED		
DRAWN		C.L.M.
CHECKED		M.F.
APPROVED		
SCALE		1"=20'
PROJECT NO.		12C4326
DATE		12/08/2016
CAD FILE:		TEIP12C432602
TITLE		ENVIRONMENTAL IMPACT PLAN
SHEET NO.		

EIP-8

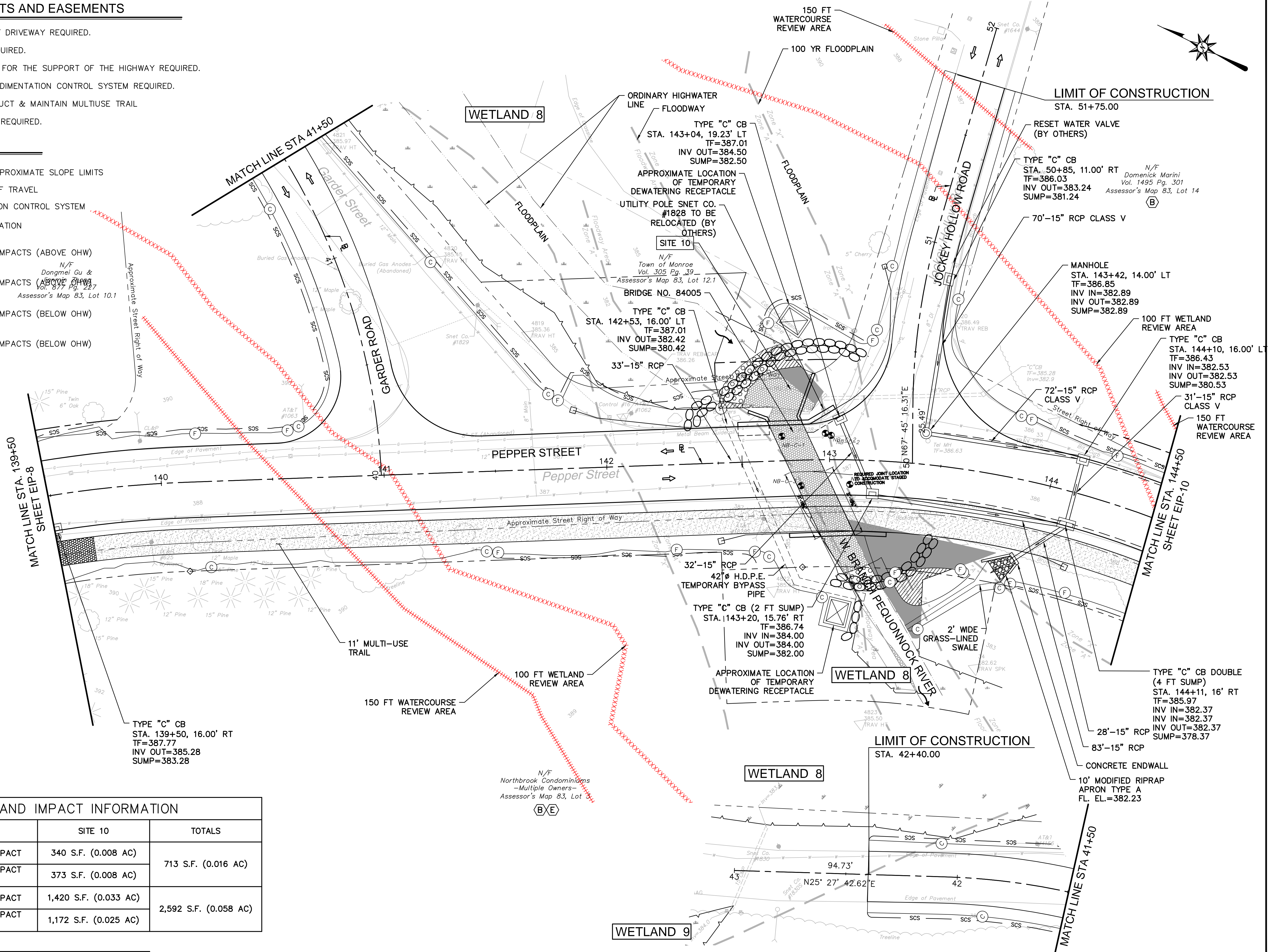
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SCHEDULE OF RIGHTS AND EASEMENTS

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- (D) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED.
- (E) EASEMENT TO CONSTRUCT & MAINTAIN MULTIUSE TRAIL
- (F) EASEMENT TO DRAIN REQUIRED.

LEGEND:

- (E)C— FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- SCS — SEDIMENTATION CONTROL SYSTEM
- ⊙ BORING LOCATION
- [Hatched Box] TEMPORARY IMPACTS (ABOVE OHW)
- [Solid Grey Box] PERMANENT IMPACTS (ABOVE OHW)
- [Hatched Box] TEMPORARY IMPACTS (BELOW OHW)
- [Solid Grey Box] PERMANENT IMPACTS (BELOW OHW)



WETLAND IMPACT INFORMATION		
	SITE 10	TOTALS
AREA OF TEMPORARY IMPACT	340 S.F. (0.008 AC)	713 S.F. (0.016 AC)
AREA OF TEMPORARY IMPACT (BELOW OHW)	373 S.F. (0.008 AC)	
AREA OF PERMANENT IMPACT	1,420 S.F. (0.033 AC)	2,592 S.F. (0.058 AC)
AREA OF PERMANENT IMPACT (BELOW OHW)	1,172 S.F. (0.025 AC)	

WETLAND 8	
IMPACTS WITHIN 100FT WETLAND REVIEW AREA	4,844 S.Y. (1.000 AC)
IMPACTS WITHIN 150FT WATERCOURSE REVIEW AREA	5,526 S.Y. (1.140 AC)



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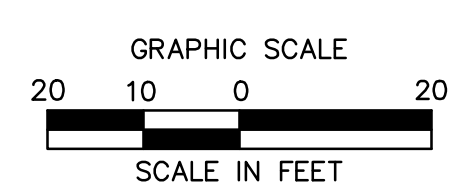
355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

No.	Date	Desc.

Designed: C.L.M.
Checked: M.F.
Approved: 1"=20'
Project No: 12C4326
Date: 12/08/2016
CAD File: TEIPI2C432602

Title: ENVIRONMENTAL IMPACT PLAN
Sheet No.: EIP-9



5/22/2017, JOUTLAW, G. VORREB212C432602 WETLAND PERMIT PLANS/TEIPI2C432602.DWG/TEIP-09 24X36 205C.

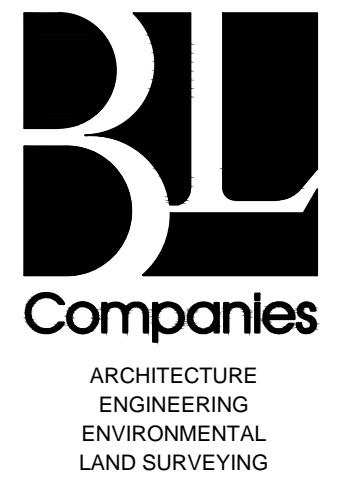
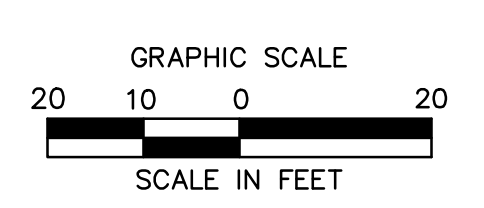
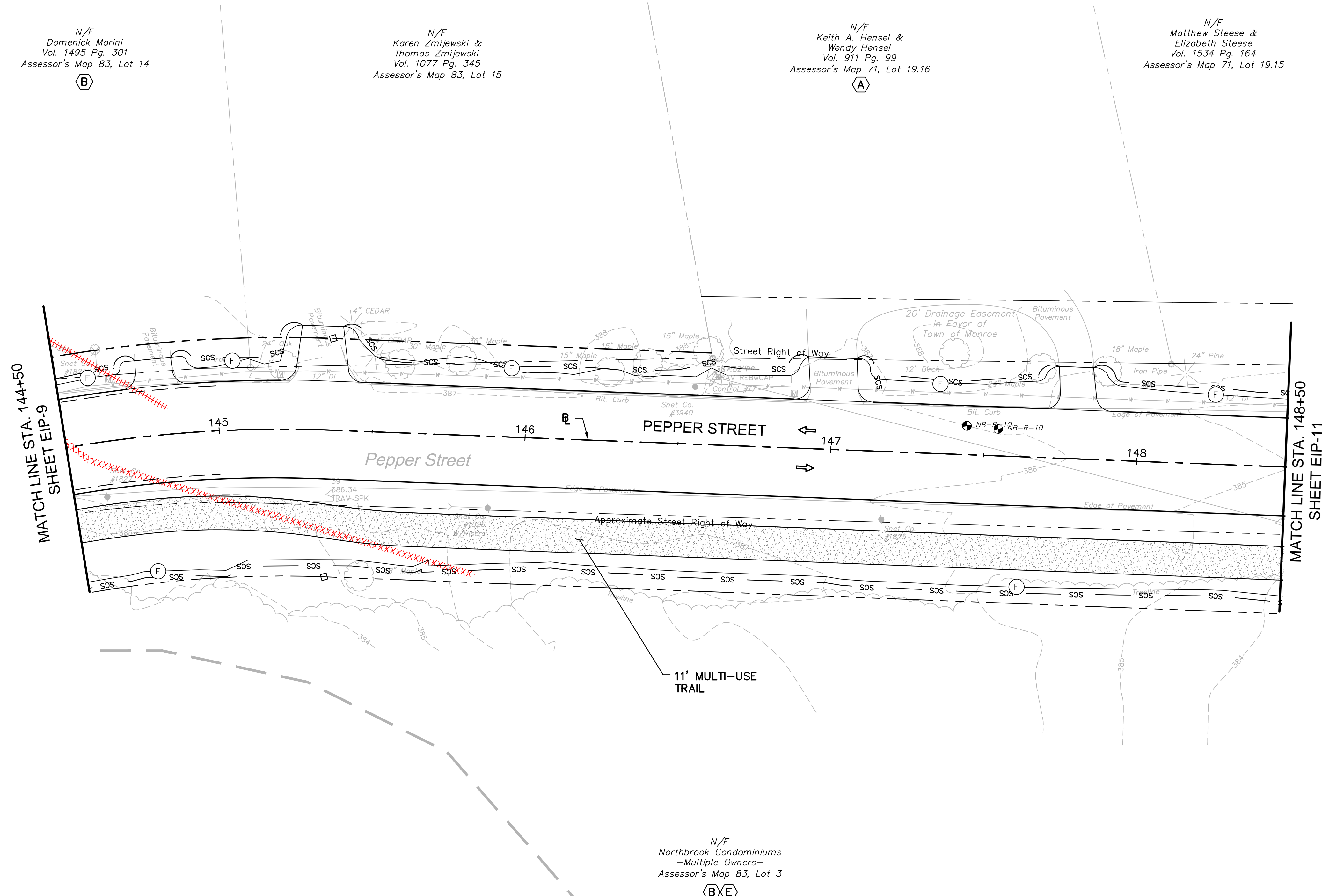
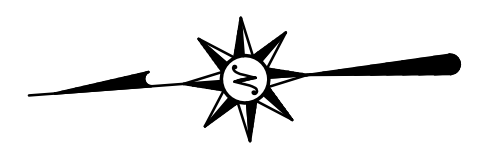
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SCHEDULE OF RIGHTS AND EASEMENTS

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- (E) EASEMENT TO CONSTRUCT & MAINTAIN MULTIUSE TRAIL
- (F) EASEMENT TO DRAIN REQUIRED.

LEGEND:

- (C)— FILL/CUT APPROXIMATE SLOPE LIMITS
- DIRECTION OF TRAVEL
- scs — SEDIMENTATION CONTROL SYSTEM
- BORING LOCATION



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Meriden, CT 06450
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(203) 630-2615 Fax

**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

REVISIONS	No.	Date	Desc.

Designed	C.L.M
Drawn	M.F.
Checked	
Approved	
Scale	1"=20'
Project No.	12C4326
Date	12/08/2016
CAD File:	TEIP12C432602
Title	ENVIRONMENTAL IMPACT PLAN
Sheet No.	

EIP-10

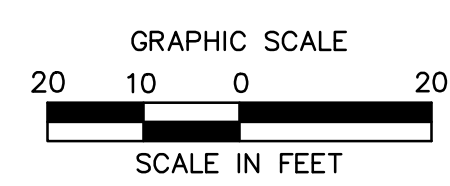
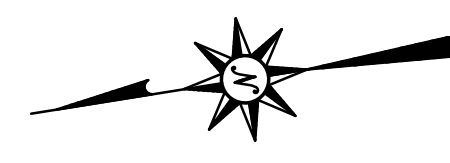
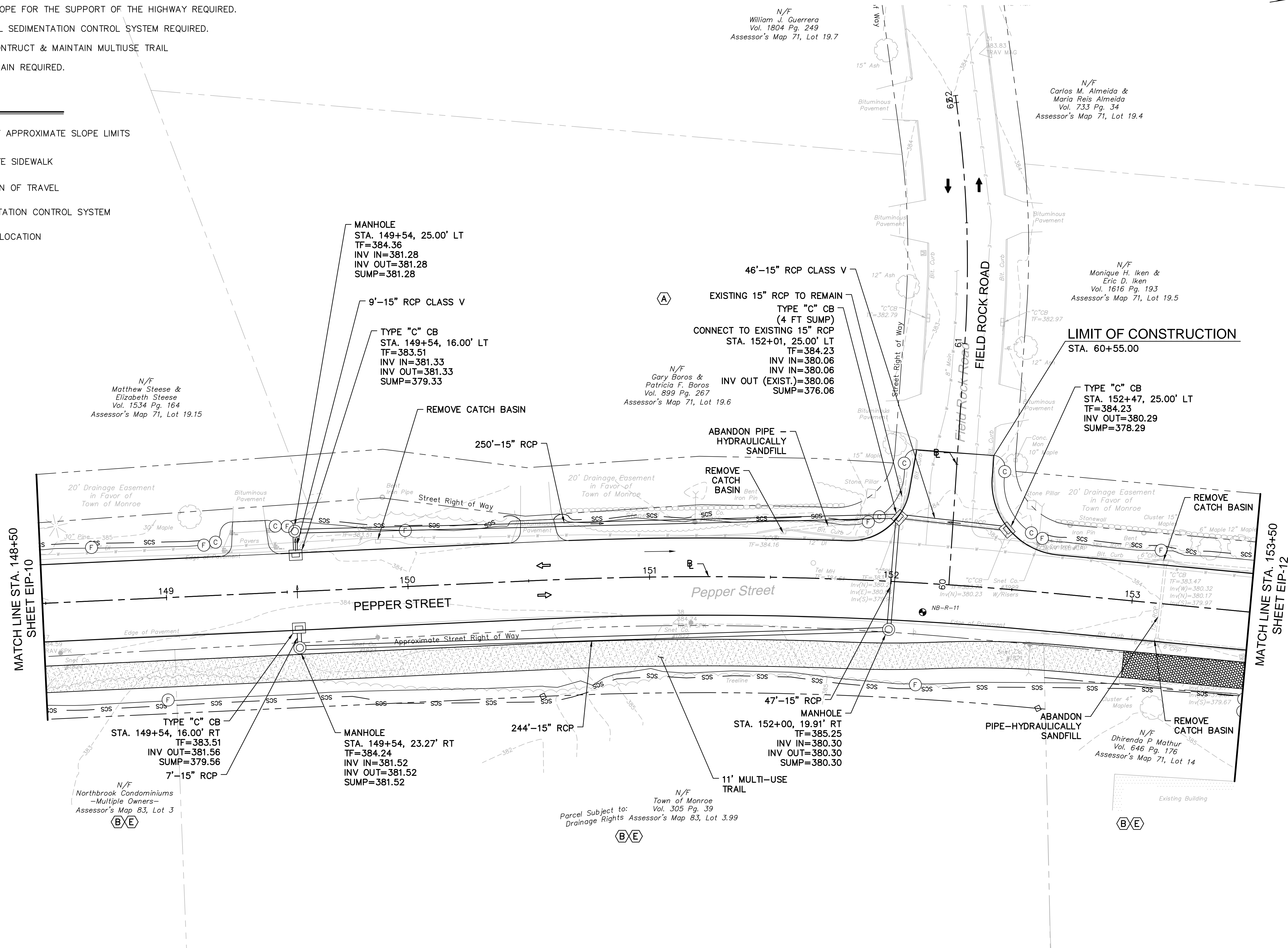
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SCHEDULE OF RIGHTS AND EASEMENTS

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- (D) RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED.
- (E) EASEMENT TO CONTRACT & MAINTAIN MULTIUSE TRAIL
- (F) EASEMENT TO DRAIN REQUIRED.

LEGEND:

- (FC) — FILL/CUT APPROXIMATE SLOPE LIMITS
- [Hatched Box] — CONCRETE SIDEWALK
- [Arrow] — DIRECTION OF TRAVEL
- SCS — SEDIMENTATION CONTROL SYSTEM
- [Circle with X] — BORING LOCATION



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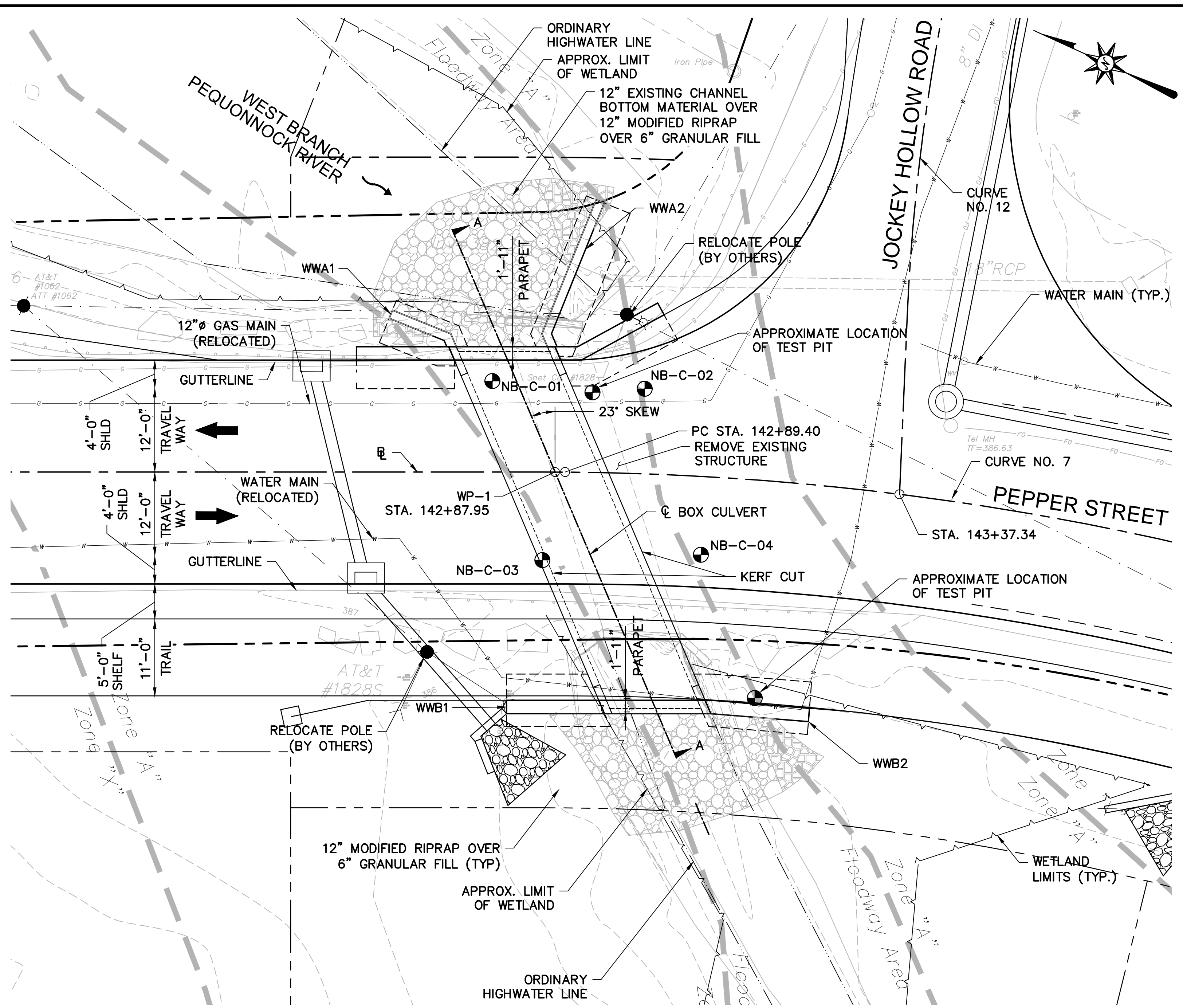
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

REVISIONS	
No.	Date

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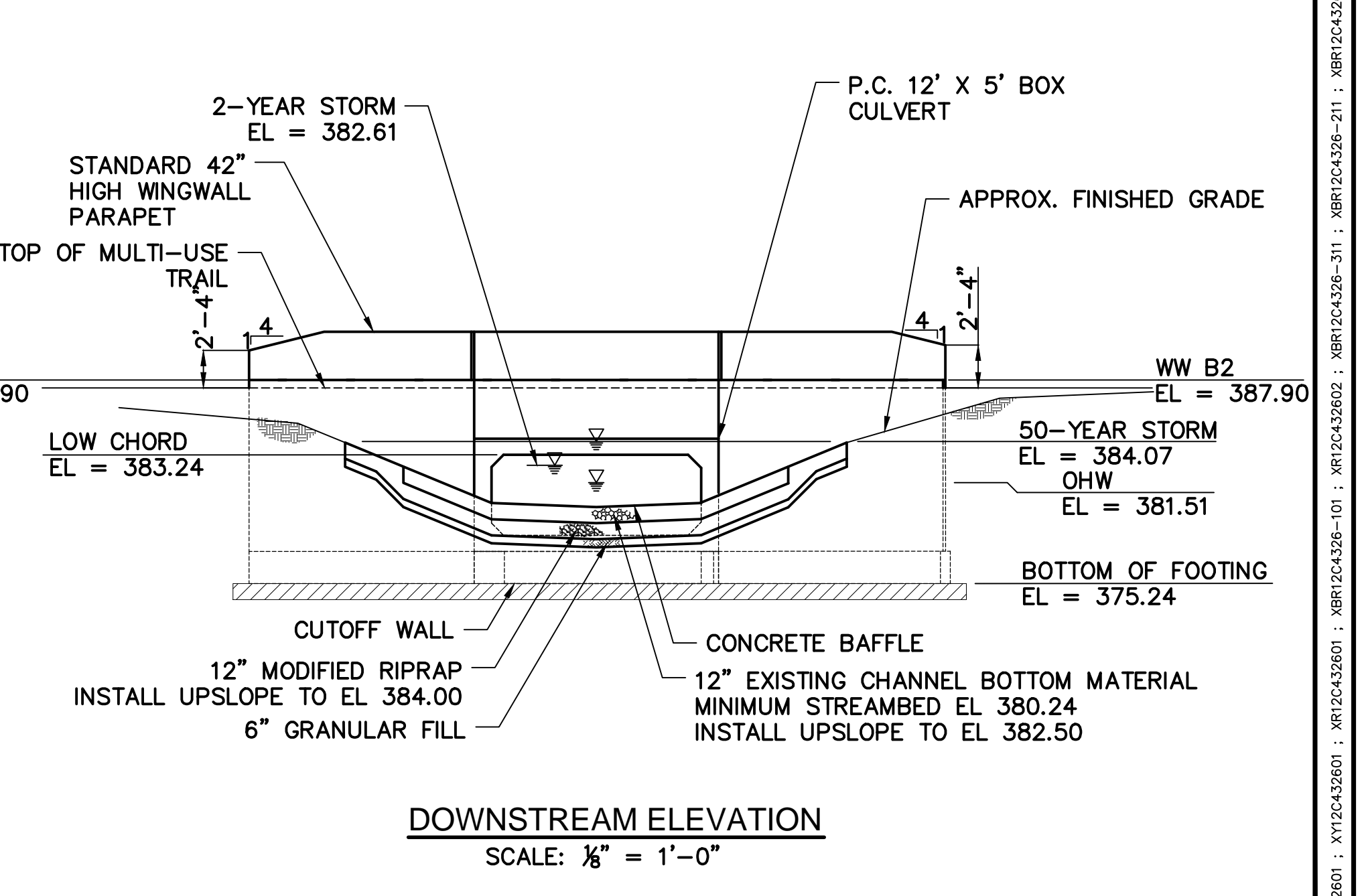
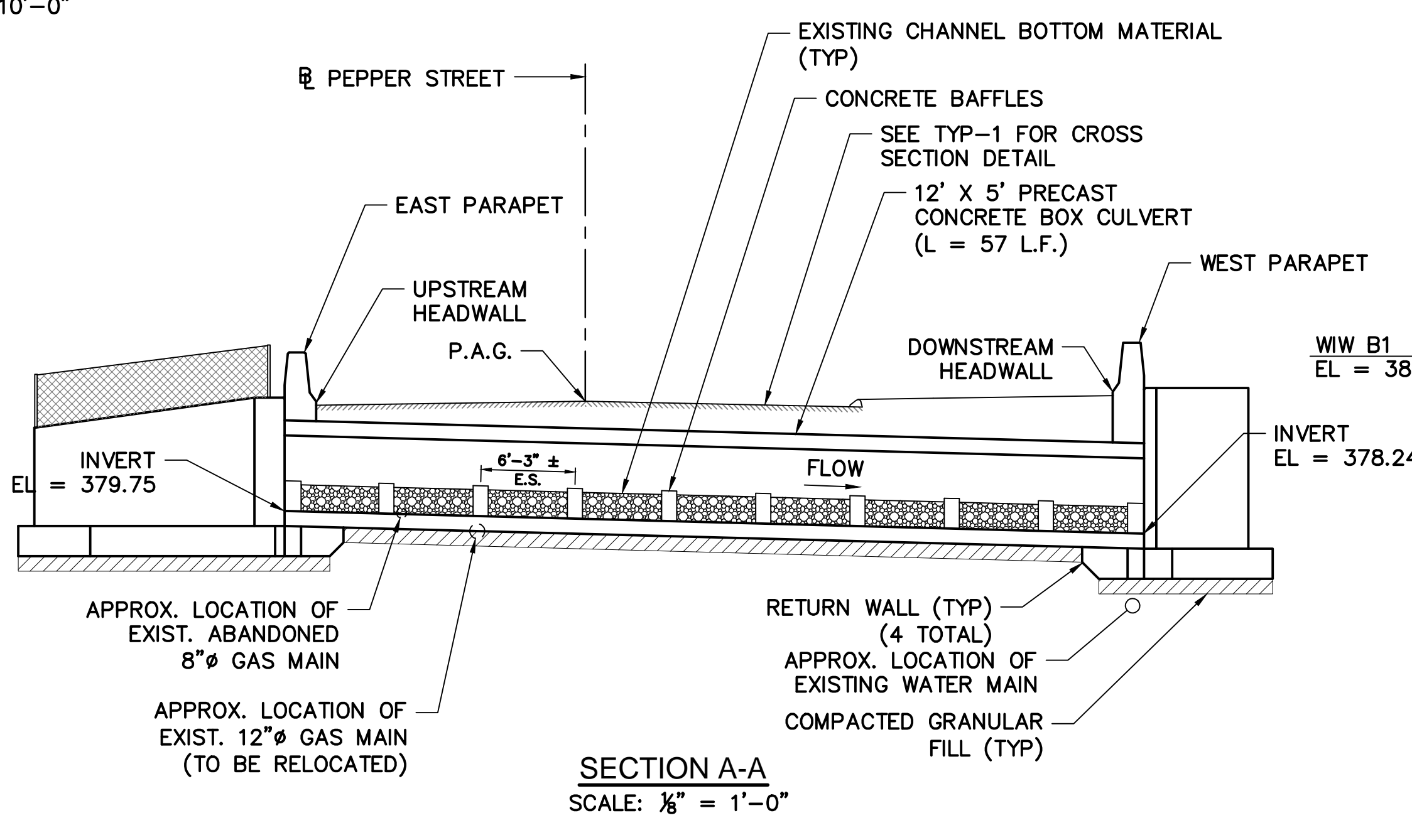
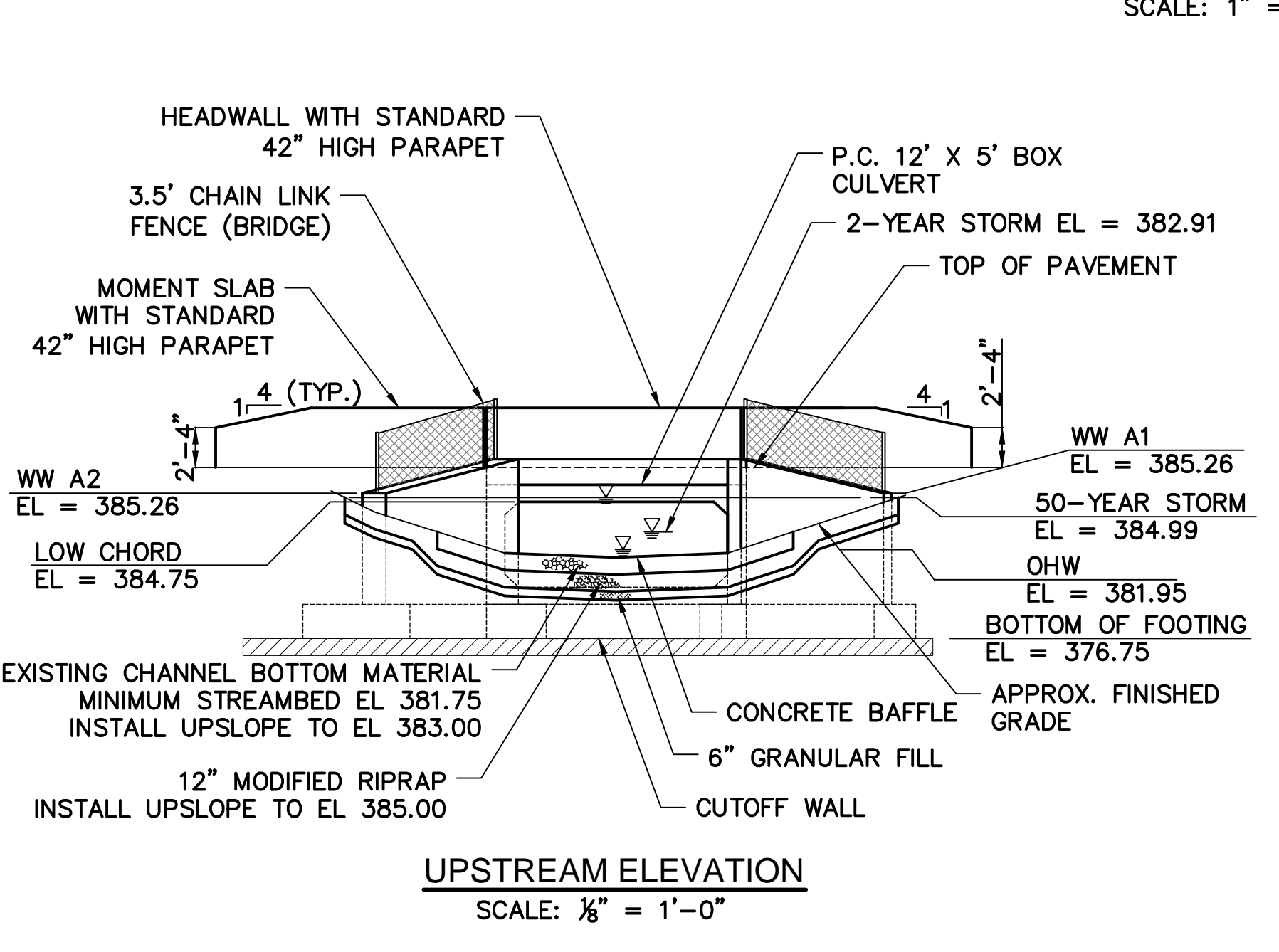
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DRAWING INDEX	
GENERAL PLAN	S-1
LAYOUT PLAN	S-2
BORING LOGS 1	S-3
BORING LOGS 2	S-4
CONSTRUCTION STAGING & WATER HANDLING	S-5
CONSTRUCTION STAGING & WATER HANDLING	S-6
CULVERT DETAILS	S-7
CULVERT DETAILS	S-8
WINGWALL DETAILS	S-9

HYDRAULIC DATA WEST BRANCH PEQUONNOCK RIVER	
DRAINAGE AREA	0.84 sq mi
DESIGN STORM FREQUENCY	50-yr
DESIGN DISCHARGE	178 cfs
AVERAGE DAILY FLOW ELEVATION	382.23 ft
UPSTREAM DESIGN WATER SURFACE ELEVATION	384.99 ft
DOWNSTREAM DESIGN WATER SURFACE ELEVATION	384.07 ft



GENERAL NOTES

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 816 (2004), SUPPLEMENTAL SPECIFICATIONS DATED JANUARY, 2015 AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD SPECIFICATIONS FOR HIGHWAY BRIDGES, 7TH EDITION (2014) AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE MANUAL, 2003 EDITION WITH REVISIONS UP TO AND INCLUDING 2011.

ALLOWABLE DESIGN STRESSES:

CLASS "A" CONCRETE: f'c = 3,000 psi
 CLASS "F" CONCRETE: f'c = 4,000 psi
 CLASS "50" CONCRETE: f'c = 5,000 psi
 REINFORCEMENT (ASTM 615 GRADE 60) fy = 60,000 psi

LIVE LOAD:

STANDARD DESIGN VEHICLE: AASHTO HL-93
 PERMIT (OVERLOAD) VEHICLES: CONNDOT P204 (8-AXLE)
 CONNDOT P380 (19-AXLE)

SALVAGE: NONE

DIMENSIONS AND ELEVATIONS: WHEN DECIMAL DIMENSIONS AND ELEVATIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZERO. ALL ELEVATIONS ARE GIVEN IN DECIMAL FEET AND ARE BASED ON NAVD 88.

EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

UTILITIES: THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES LOCATED WITHIN THE VICINITY OF THE SITE DURING CONSTRUCTION. THE METHOD OF SUPPORTING AND PROTECTING UTILITIES SELECTED BY THE CONTRACTOR MUST BE APPROVED BY THE UTILITY COMPANY. UTILITY MODIFICATIONS SHALL BE MADE BY THE RESPECTIVE UTILITY COMPANIES EXCEPT WHERE NOTED OTHERWISE. UTILITIES SHALL BE IDENTIFIED AND LOCATED WITH THE AID OF TEST PITS.

PRECAST ELEMENTS: THE BOX CULVERT, WINGWALLS, WINGWALL FOOTINGS AND BAFFLES SHALL BE PRECAST. THE CONTRACTOR MAY CHOOSE A PRECAST OPTION FOR THE MOMENT SLABS AND THE WINGWALL PARAPETS AS APPROVED BY THE ENGINEER.

KERF CUT: THE KERF CUT SHALL BE PAID FOR UNDER THE ITEM "SAWING AND SEALING OF CONCRETE PAVEMENT"

PARAPET GUIDERAIL ATTACHMENTS: PARAPET GUIDERAIL ATTACHMENTS SHALL CONFIRM TO CONNDOT STANDARD DETAILS 8.3.3g THROUGH 8.3.3d FOR THE LEADING ENDS AND 8.3.4 FOR TRAILING ENDS AND SHALL BE PAID FOR UNDER RB-350 BRIDGE ATTACHMENT SAFETY SHAPE PARAPET.

CONCRETE NOTES

CLASS "A" CONCRETE: CLASS "A" CONCRETE SHALL BE USED FOR THE CUT-OFF WALLS AND CULVERT PARAPETS.

CLASS "F" CONCRETE: CLASS "F" CONCRETE SHALL BE USED FOR THE WINGWALL PARAPETS AND MOMENT SLAB.

CLASS "50" CONCRETE: CLASS "50" CONCRETE SHALL BE USED FOR THE PRECAST CONCRETE BOX CULVERT, BAFFLES, WINGWALLS AND FOOTINGS.

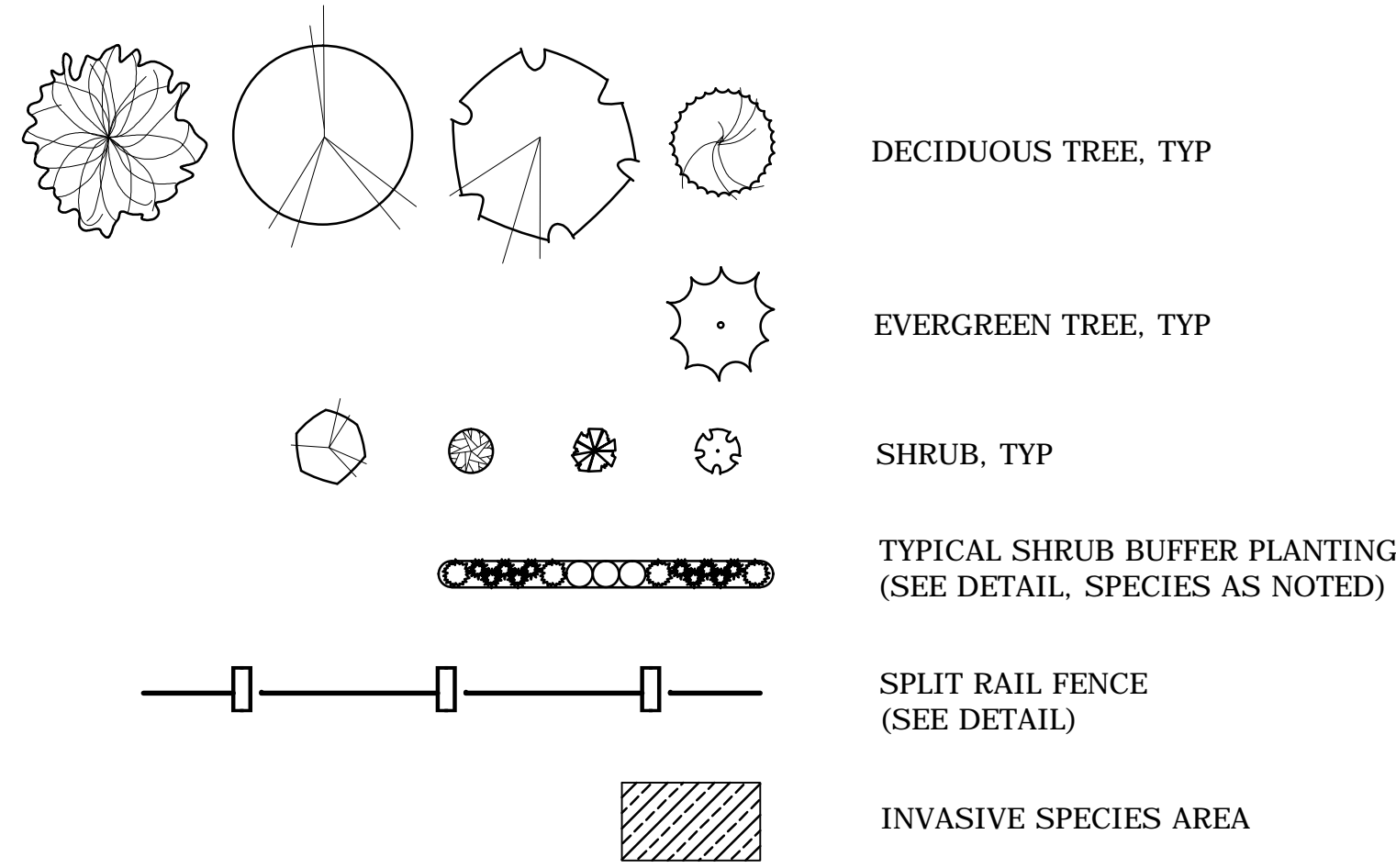
REINFORCEMENT: ALL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.

EXPOSED EDGES: EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" X 1", UNLESS DIMENSIONED OTHERWISE.

12/8/2016, 04:58:12 PM, C:\PROJECTS\2016\201608\20160804\WETLAND PERMIT PLANS\TBR12C432604_PERMIT.DWG-S-4, 24X36, AS NOTED.

LEGEND:

PLANTING LEGEND:



SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS

PLANT SCHEDULE:

DECIDUOUS TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	0	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	0	Acer x Freemannii 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	0	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	0	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

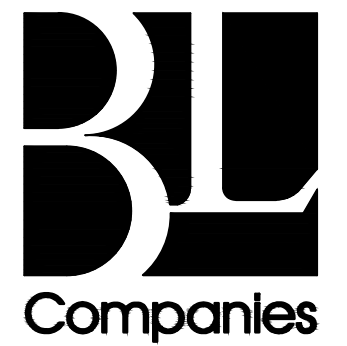
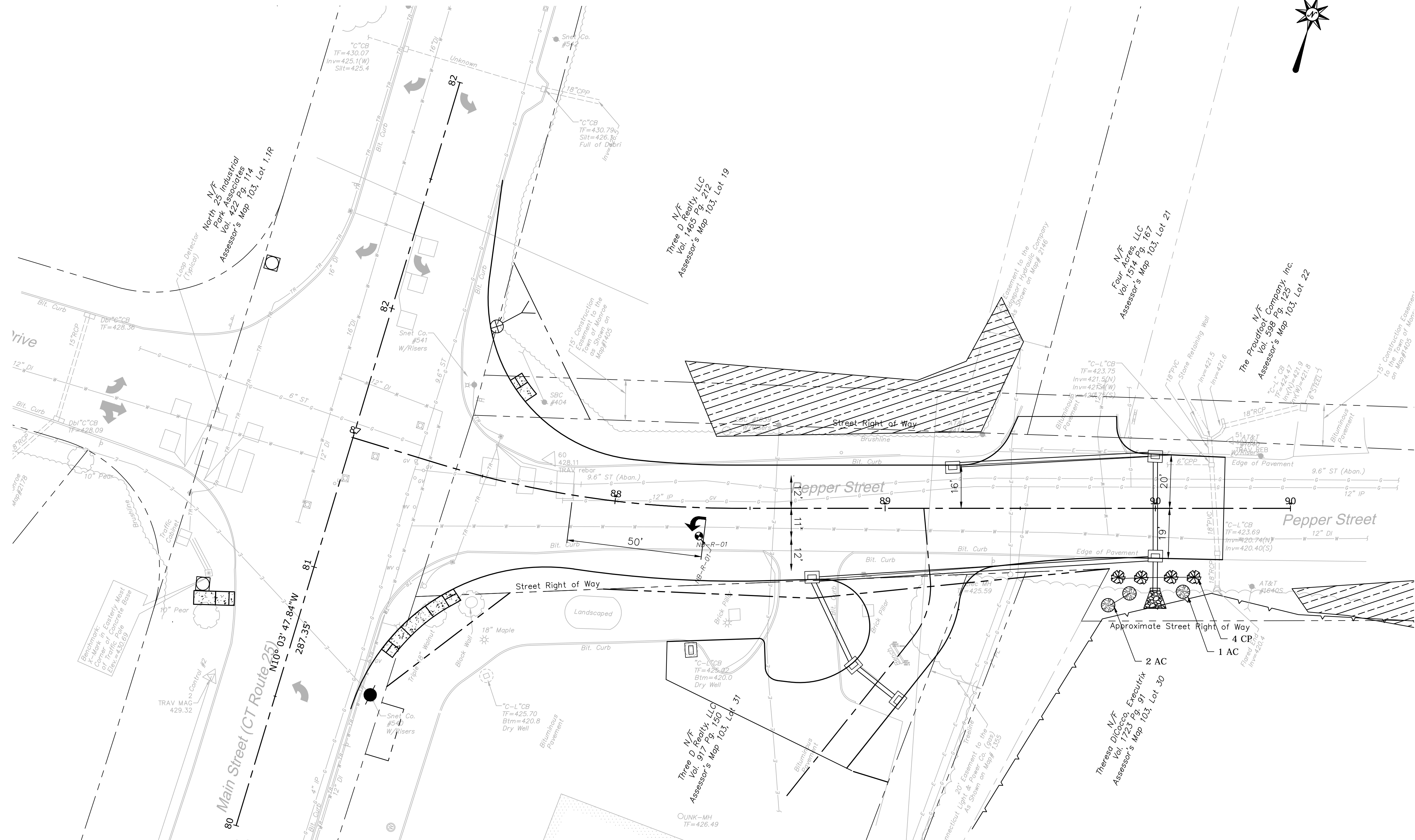
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	0	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

SHRUBS AND ORNAMENTAL GRASSES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	0	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	0	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	0	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	0	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	0	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	0	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JC	0	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VD	0	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.

WETLAND BUFFER PLANTS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	3	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	0	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	4	Comptonia peregrina	SWEET FERN	18"-24"
WB	0	Ilex verticillata	WINTERBERRY	18"-24"
VC	0	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"



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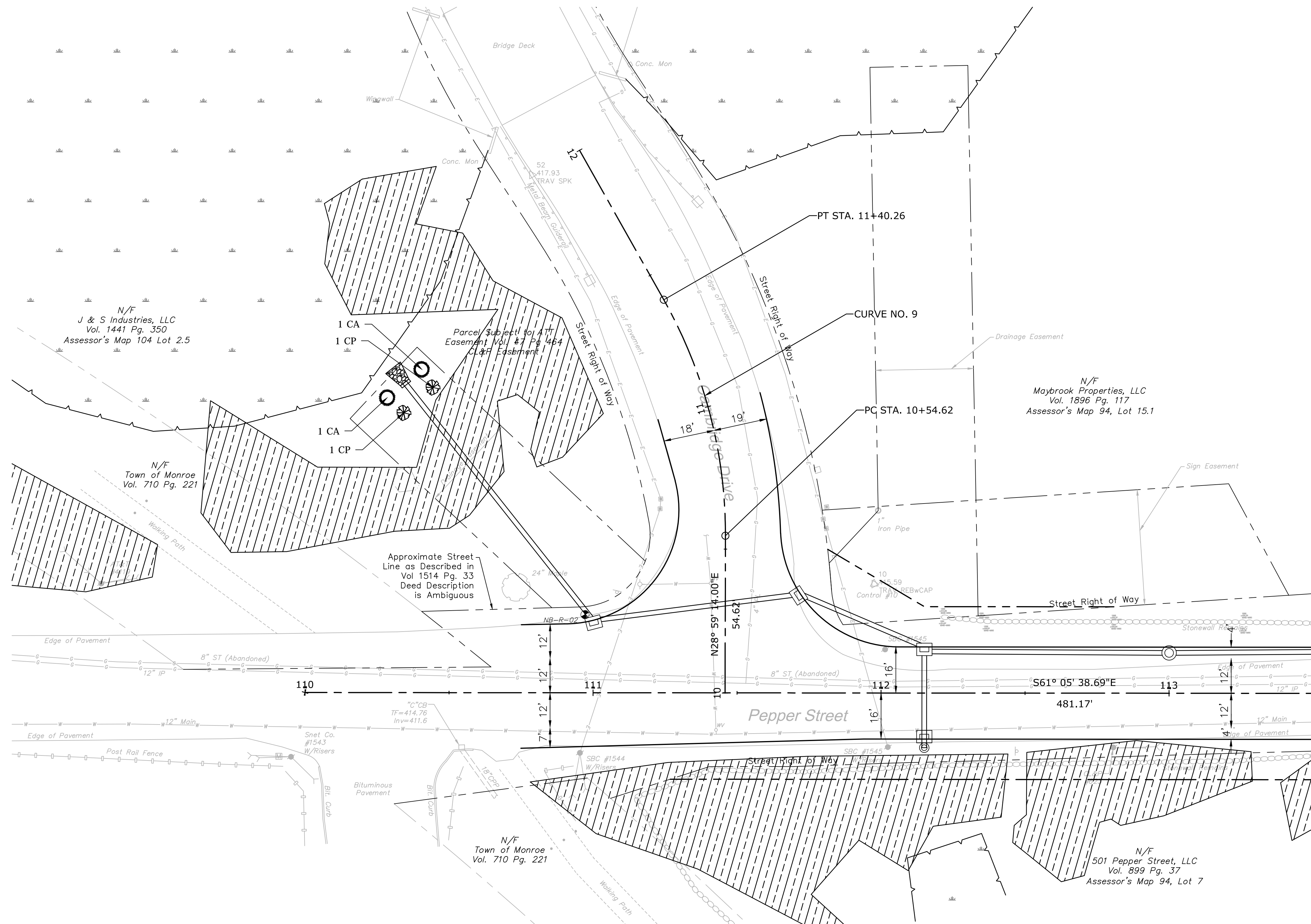
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

Desig. O.L.C.
Drawn J.A.K.
Checked B.J.P.
Approved
Scale 1"=20'
Project No. 12C4326
Date 12/08/2016
CAD File: TLD12C432601
Title LANDSCAPE PLAN
Sheet No. LDS-01

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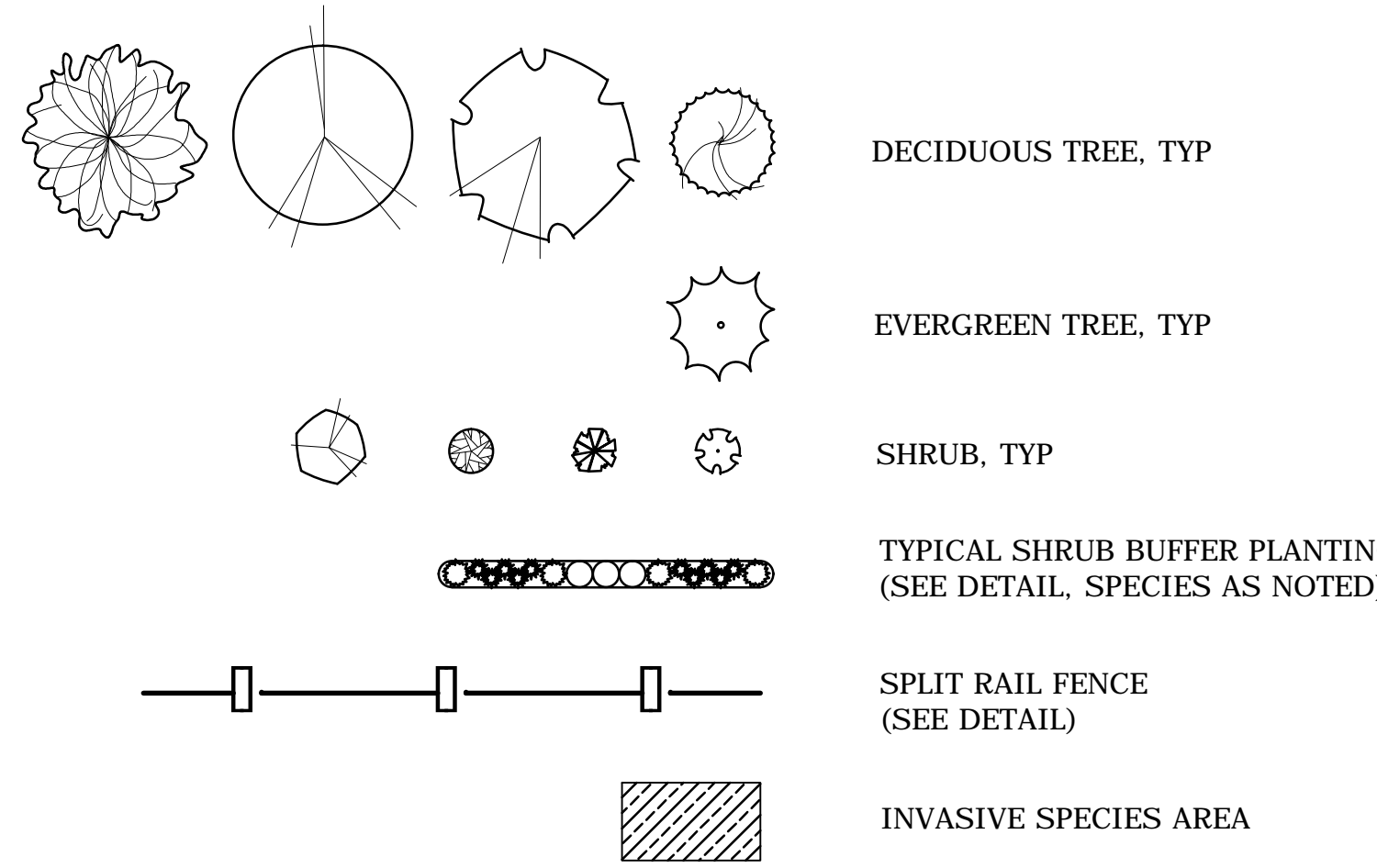
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LEGEND:



MATCH LINE STA. 113+50
SHEET LDS-03

PLANTING LEGEND:



SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS

PLANT SCHEDULE:

DECIDUOUS TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	0	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	0	Acer x Freemanni 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	0	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	0	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

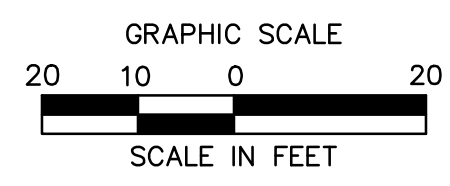
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	0	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

SHRUBS AND ORNAMENTAL GRASSES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	0	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	0	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	0	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	0	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	0	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	0	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JC	0	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VD	0	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.

WETLAND BUFFER PLANTS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	0	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	2	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	2	Comptonia peregrina	SWEET FERN	18"-24"
WB	0	Ilex verticillata	WINTERBERRY	18"-24"
VC	0	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"



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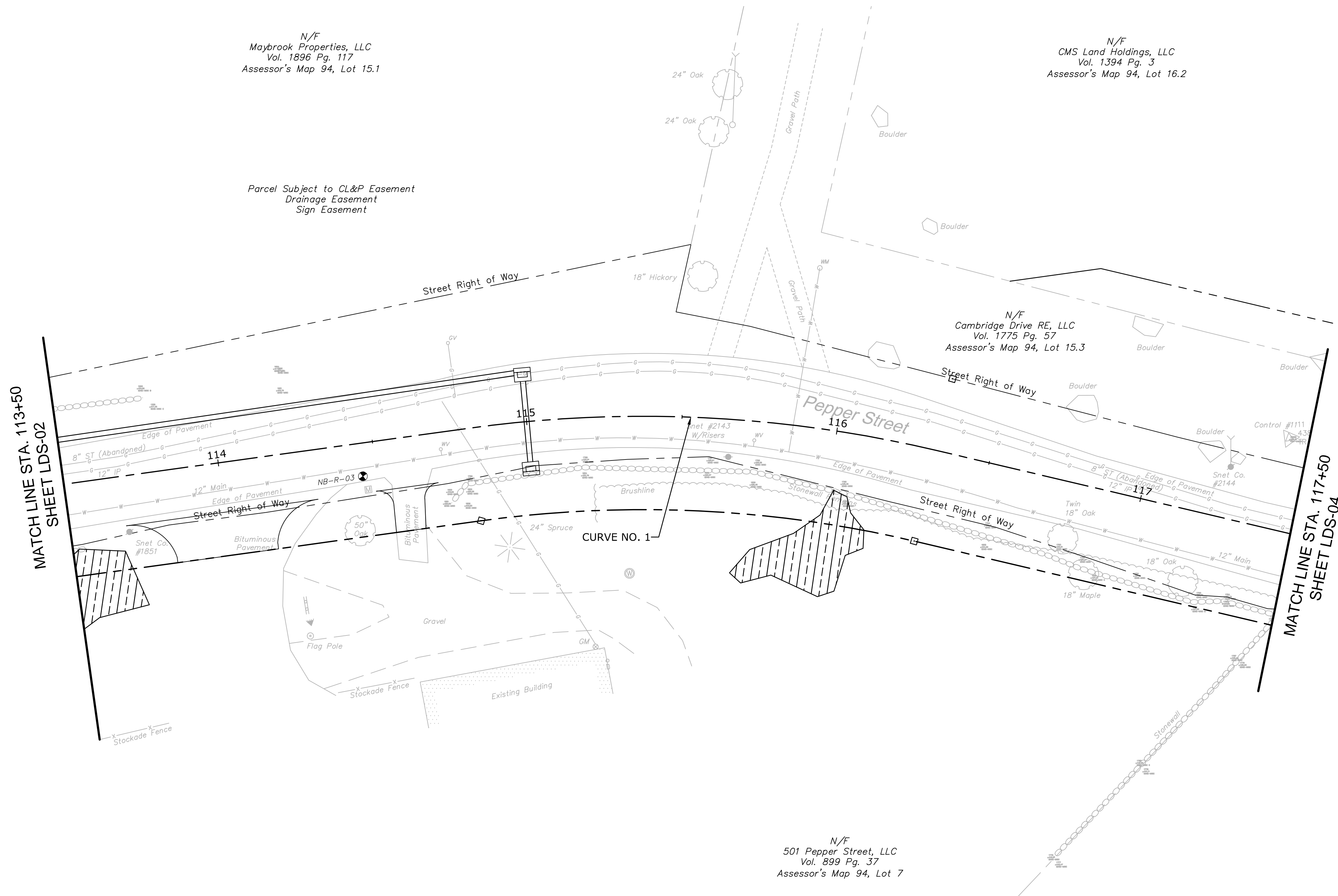
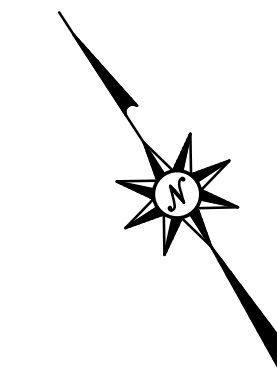
**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

Designed: O.L.C.
Drawn: J.A.K.
Checked: B.J.P.
Approved: _____
Scale: 1"=20'
Project No: 12C4326
Date: 12/08/2016
CAD File: TLD12C432601
Title: LANDSCAPE PLAN
Sheet No: **LDS-02**

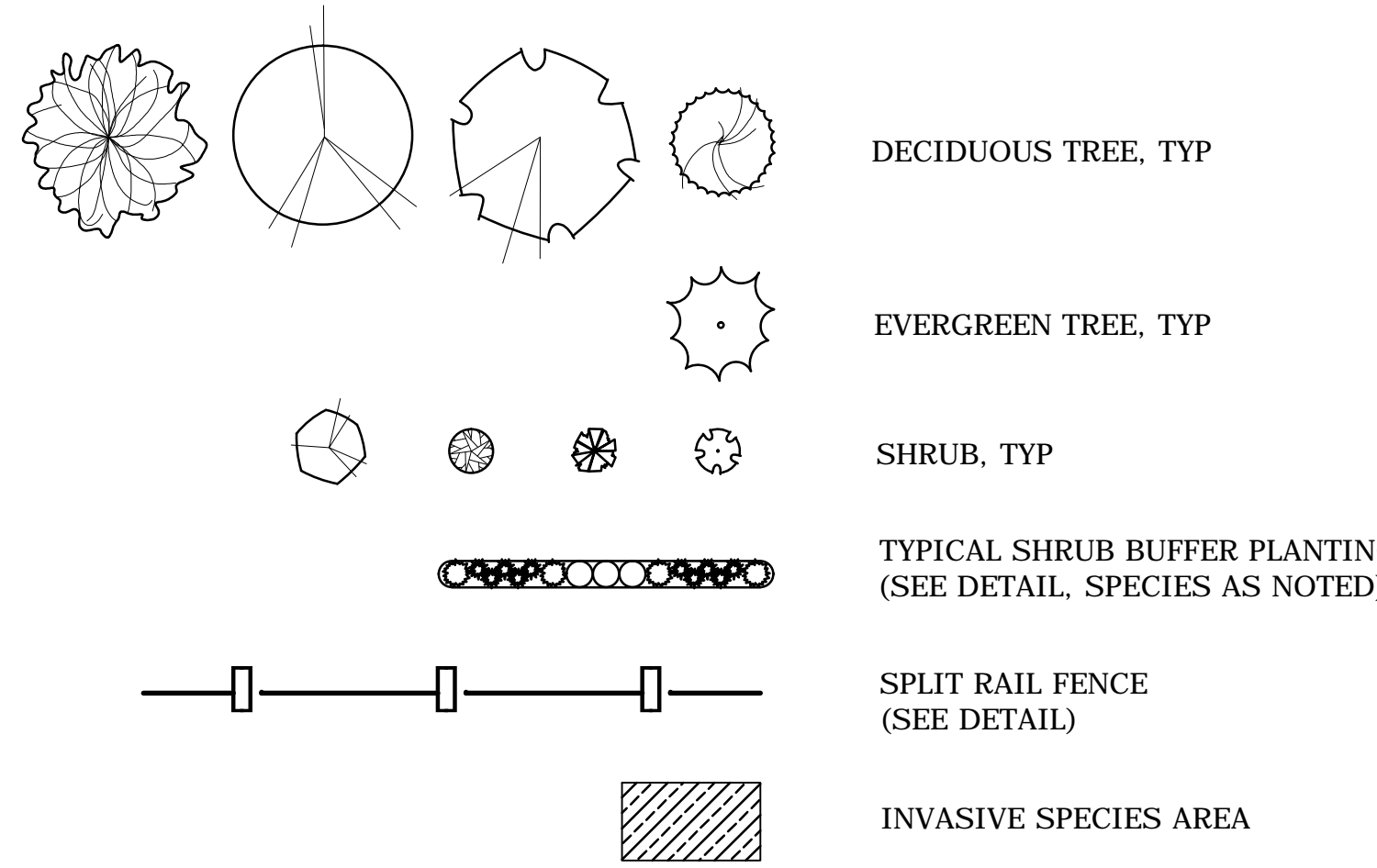
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LEGEND:



PLANTING LEGEND:



PLANT SCHEDULE:

DECIDUOUS TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	0	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	0	Acer x Freemannii 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	0	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	0	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	0	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

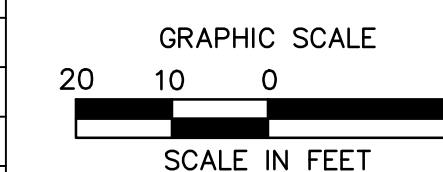
SHRUBS AND ORNAMENTAL GRASSES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	0	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	0	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	0	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	0	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	0	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	0	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JD	0	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VC	0	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.

WETLAND BUFFER PLANTS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	0	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	0	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	0	Comptonia peregrina	SWEET FERN	18"-24"
WB	0	Ilex verticillata	WINTERBERRY	18"-24"
VC	0	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"

SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS



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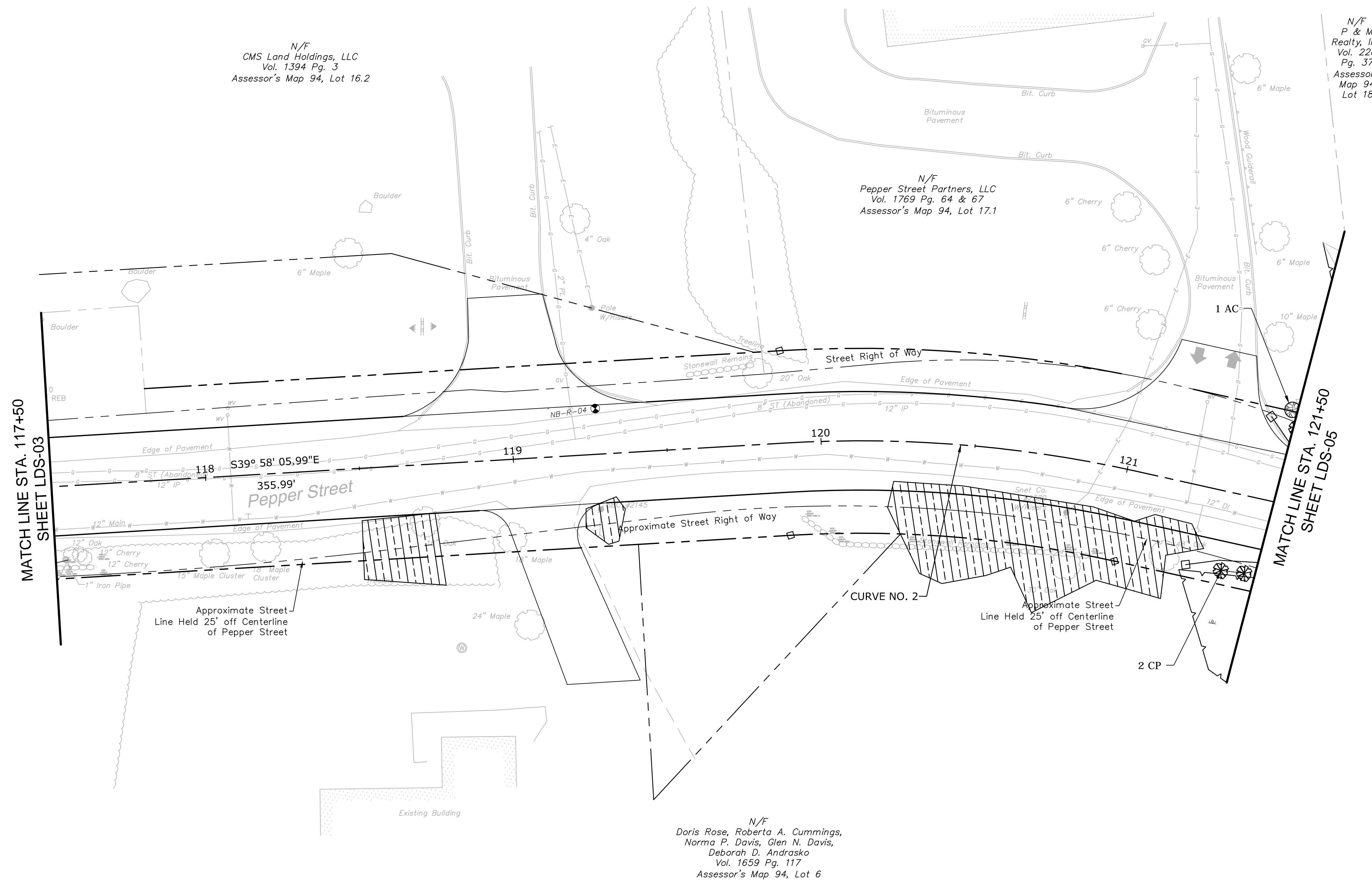
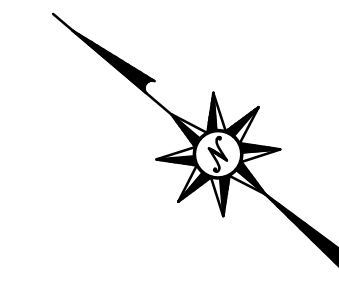
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ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

Desig. O.L.C.
Drawn J.A.K.
Checked B.J.P.
Approved
Scale 1"=20'
Project No. 12C4326
Date 12/08/2016
CAD File: TLD512C432601
Title LANDSCAPE PLAN
Sheet No. LDS-03

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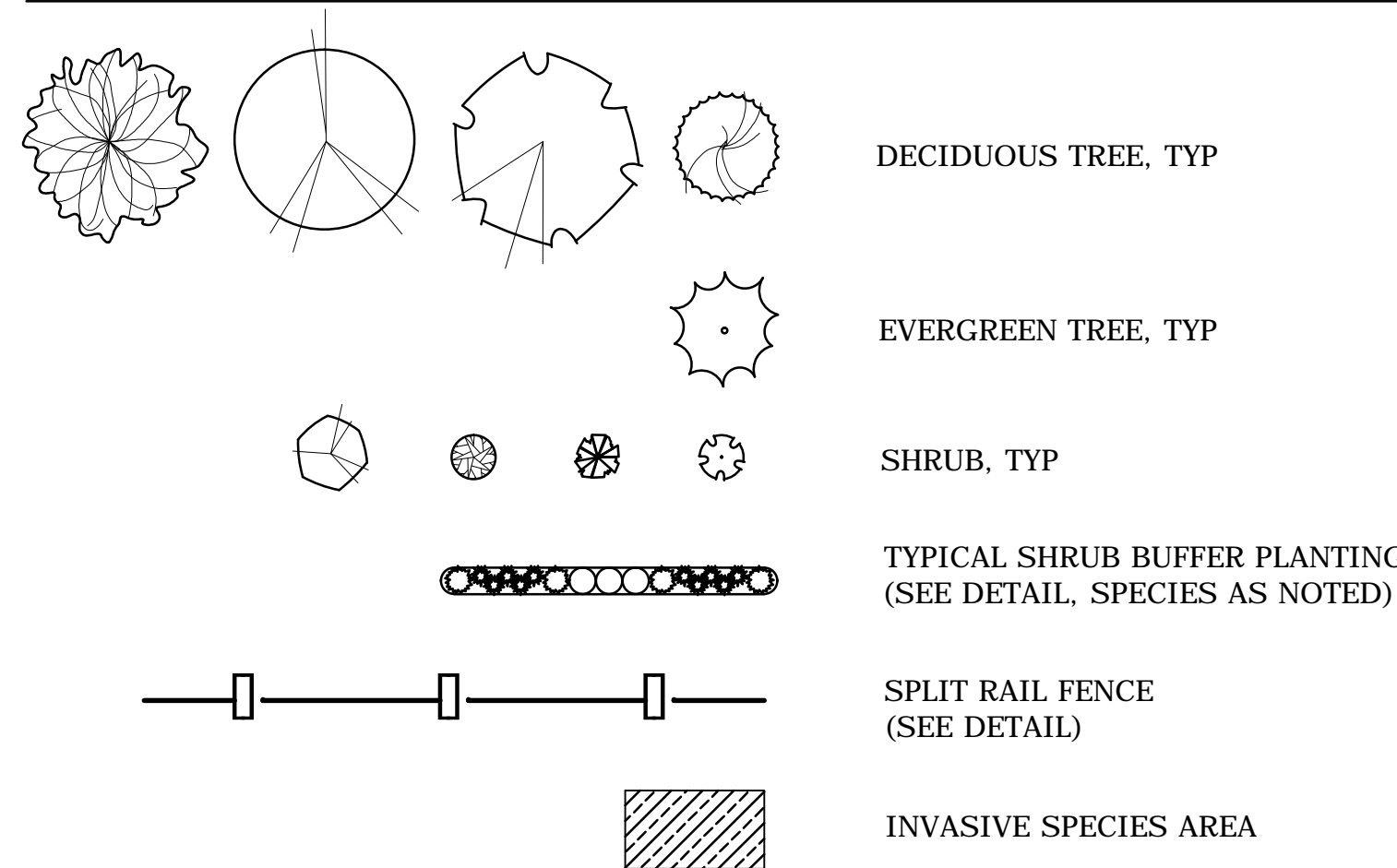
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Vol. 1394 Pg. 3
Assessor's Map 94, Lot 16.2

N/F
Pepper Street Partners, LLC
Vol. 1769 Pg. 64 & 67
Assessor's Map 94, Lot 17.1

N/F
P & M
Realty, Inc.
Vol. 228
Pg. 37
Assessor's
Map 94,
Lot 18

N/F
Doris Rose, Roberta A. Cummings,
Norma P. Davis, Glen N. Davis,
Deborah D. Andrasko
Vol. 1659 Pg. 117
Assessor's Map 94, Lot 6

PLANTING LEGEND:



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PLANT SCHEDULE:

DECIDUOUS TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	0	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	0	Acer x Freemanni 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	0	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	0	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

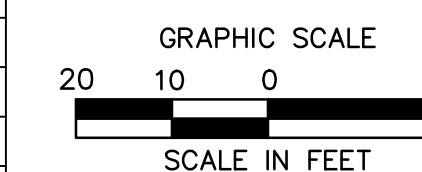
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	0	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

SHRUBS AND ORNAMENTAL GRASSES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	0	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	0	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	0	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	0	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	0	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	0	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JC	0	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VD	0	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.

WETLAND BUFFER PLANTS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	1	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	0	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	2	Comptonia peregrina	SWEET FERN	18"-24"
WB	0	Ilex verticillata	WINTERBERRY	18"-24"
VC	0	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"



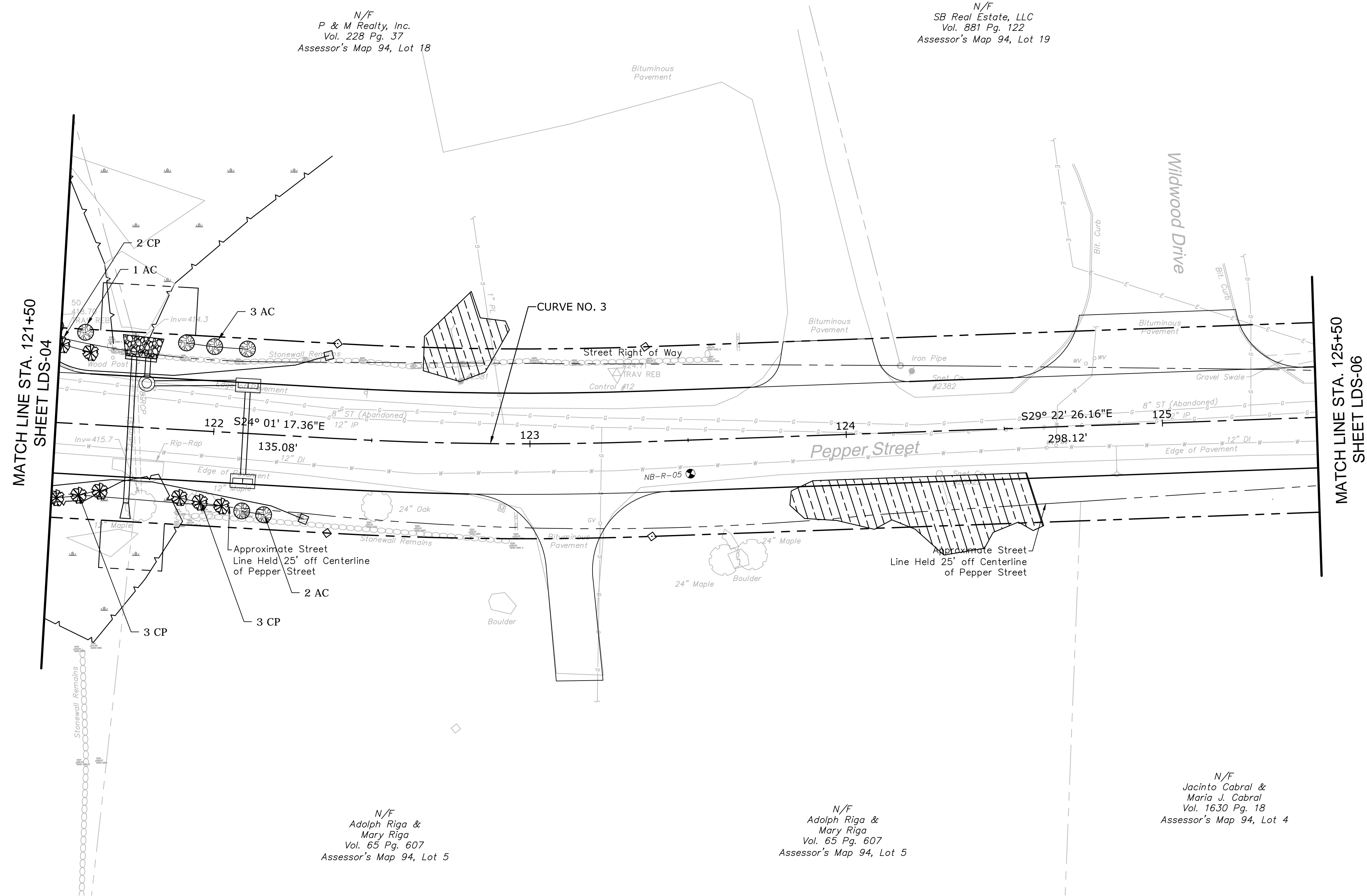
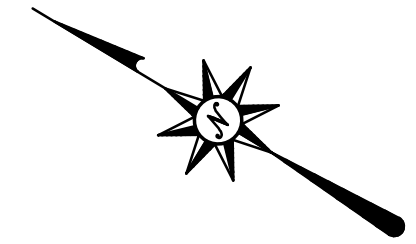
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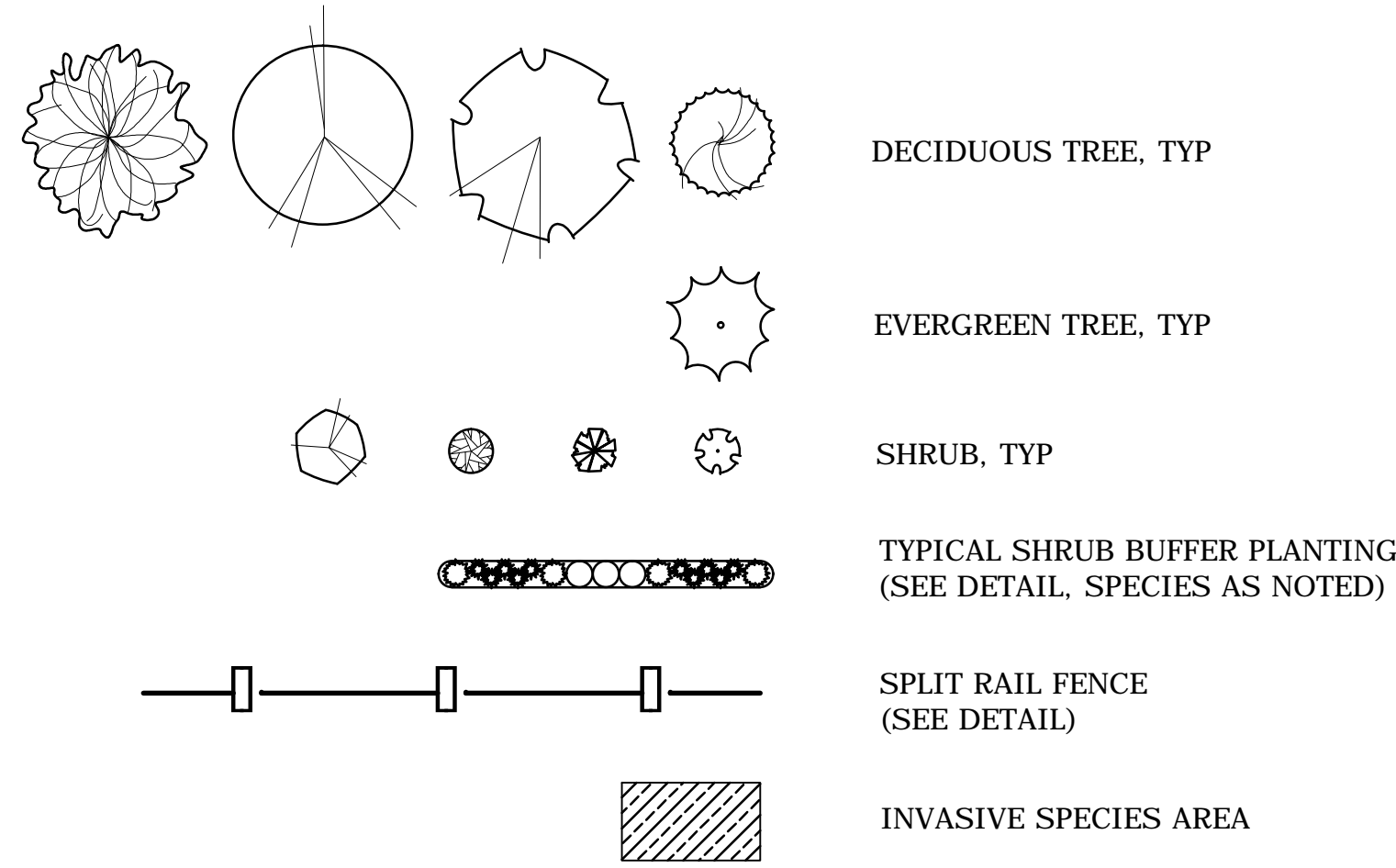
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

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LEGEND:



PLANTING LEGEND:



SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS

PLANT SCHEDULE:

DECIDUOUS TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	0	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	0	Acer x Freemannii 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	0	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	0	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

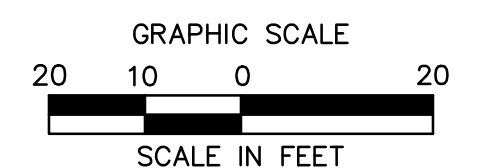
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	0	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

SHRUBS AND ORNAMENTAL GRASSES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	0	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	0	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	0	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	0	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	0	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	0	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JD	0	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VC	0	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.

WETLAND BUFFER PLANTS

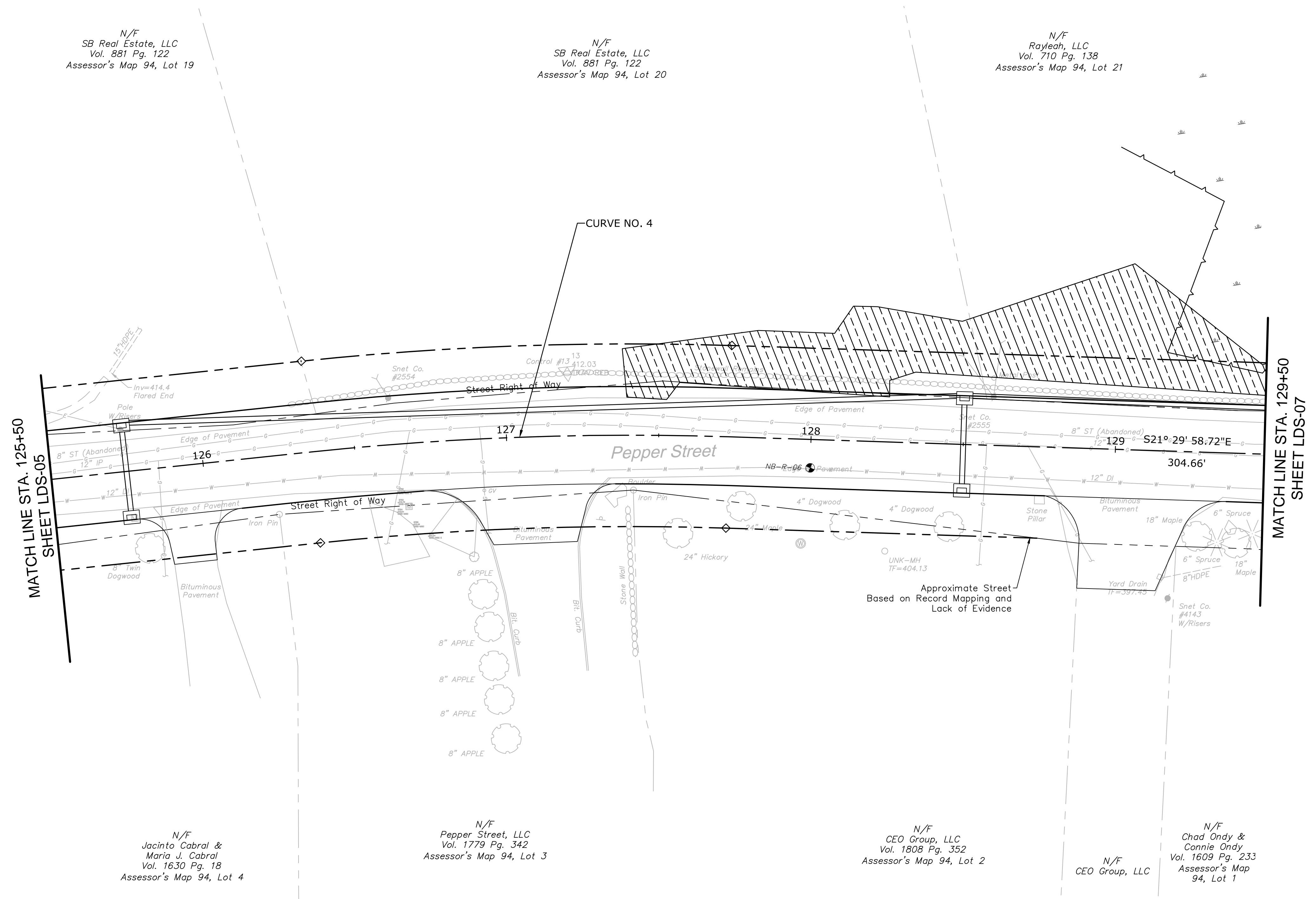
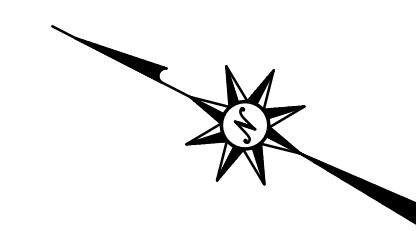
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	6	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	0	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	8	Comptonia peregrina	SWEET FERN	18"-24"
WB	0	Ilex verticillata	WINTERBERRY	18"-24"
VC	0	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"



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LEGEND:



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Vol. 881 Pg. 122
Assessor's Map 94, Lot 19

N/F
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Assessor's Map 94, Lot 20

N/F
Rayeah, LLC
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Assessor's Map 94, Lot 21

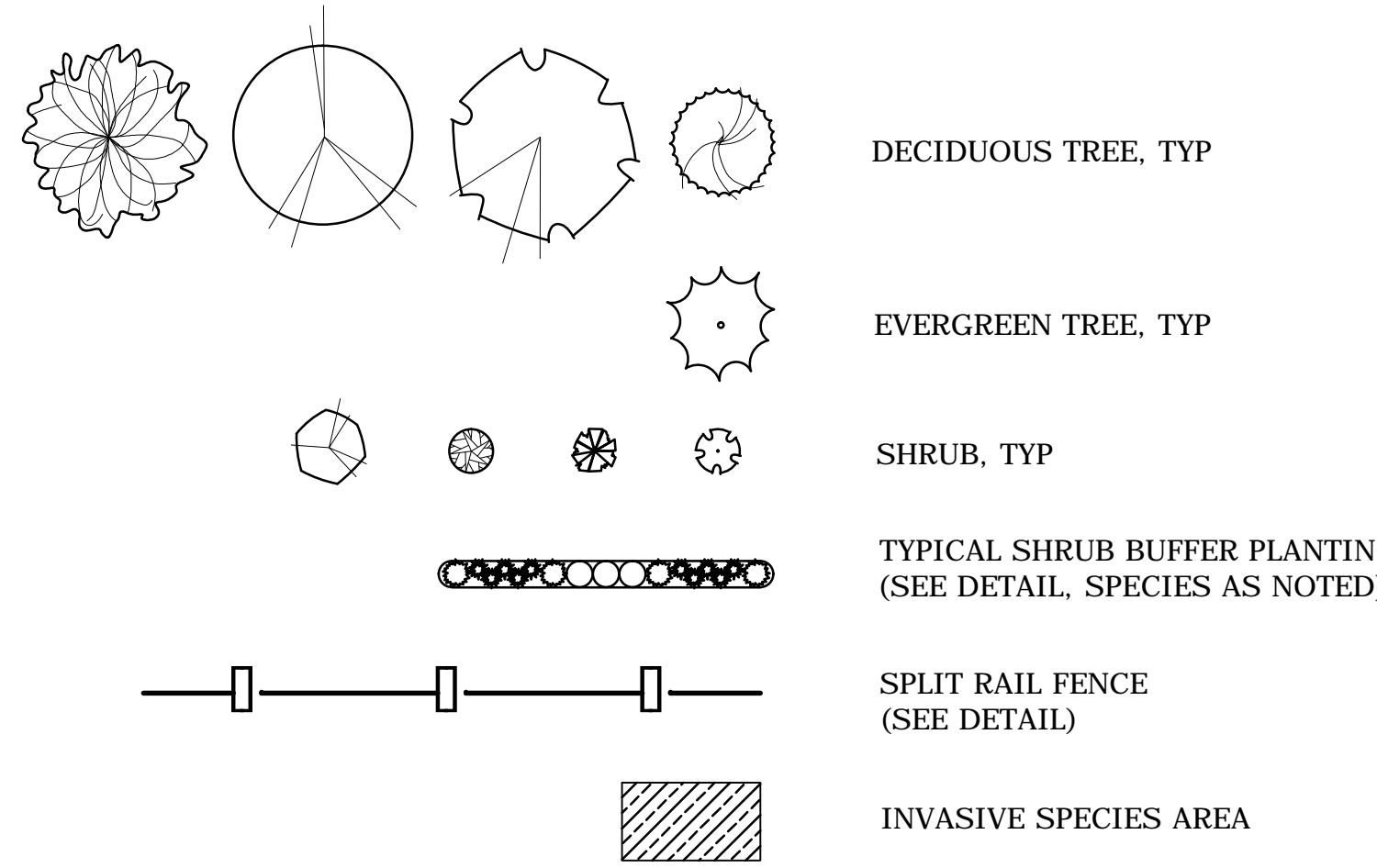
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Maria J. Cabral
Vol. 1630 Pg. 18
Assessor's Map 94, Lot 4

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Pepper Street, LLC
Vol. 1779 Pg. 342
Assessor's Map 94, Lot 3

N/F
CEO Group, LLC
Vol. 1808 Pg. 352
Assessor's Map 94, Lot 2

N/F
Chad Ondy &
Connie Ondy
Vol. 1609 Pg. 233
Assessor's Map
94, Lot 1

PLANTING LEGEND:



SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS

PLANT SCHEDULE:

DECIDUOUS TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	0	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	0	Acer x Freemannii 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	0	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	0	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

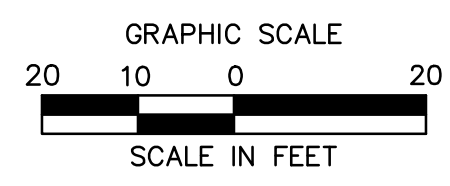
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	0	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

SHRUBS AND ORNAMENTAL GRASSES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	0	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	0	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	0	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	0	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	0	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	0	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JC	0	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VD	0	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.

WETLAND BUFFER PLANTS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	0	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	0	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	0	Comptonia peregrina	SWEET FERN	18"-24"
WB	0	Ilex verticillata	WINTERBERRY	18"-24"
VC	0	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"



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355 Research Parkway
Meriden, CT 06450
(203) 630-1406
(203) 630-2615 Fax

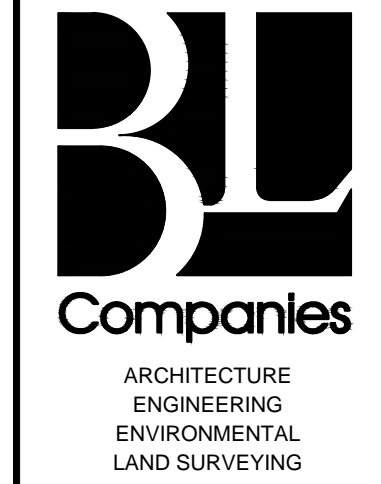
ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

DESIGNED: O.L.C.
DRAWN: J.A.K.
CHECKED: B.J.P.
APPROVED: 1"=20'
SCALE: 12C4326
DATE: 12/08/2016
CAD FILE: TLD512C432601
TITLE: LANDSCAPE PLAN
SHEET NO.: LDS-06

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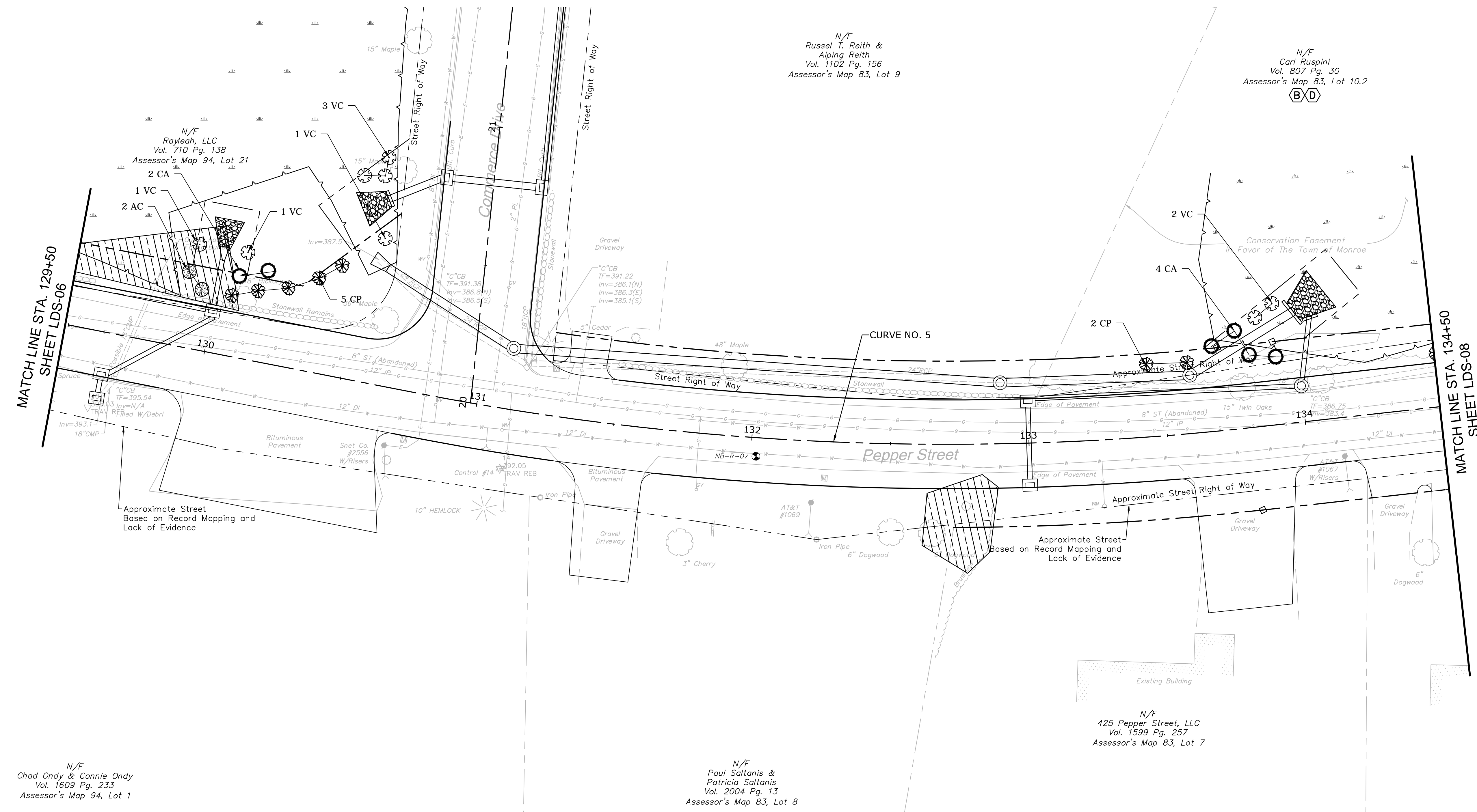
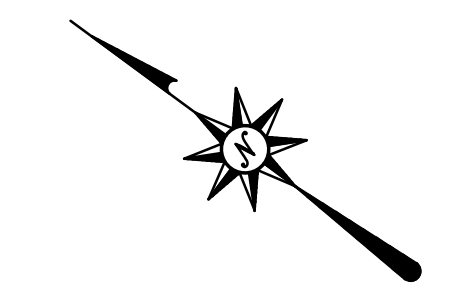


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Meriden, CT 06450
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(203) 630-2615 Fax

ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT

Desig. O.L.C.
Drawn J.A.K.
Checked B.J.P.
Approved
Scale 1"=20'
Project No. 12C4326
Date 12/08/2016
CAD File: TLD512C432601
Title LANDSCAPE PLAN
Sheet No. LDS-07



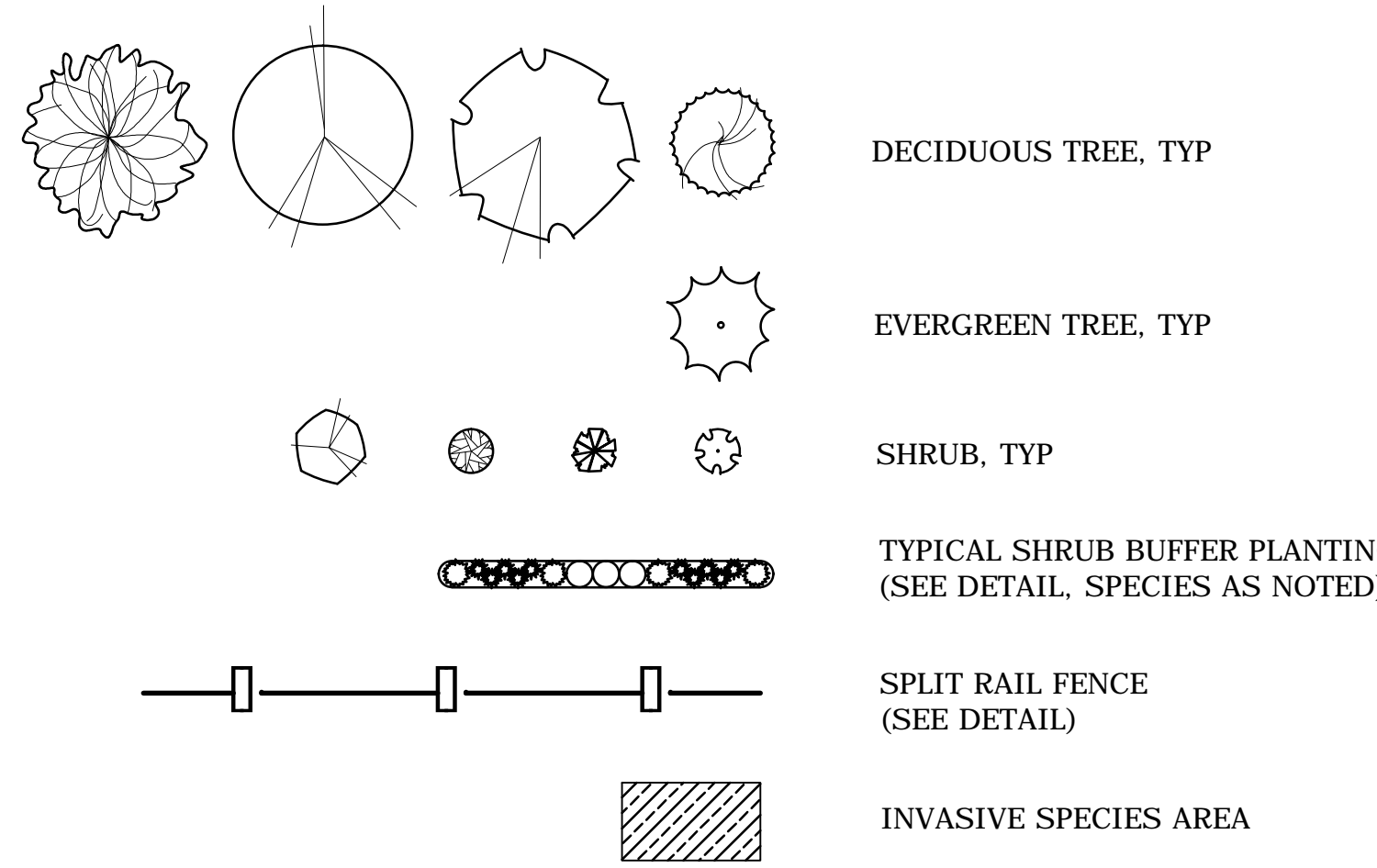
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Vol. 1609 Pg. 233
Assessor's Map 94, Lot 1

N/F
Paul Soltanis &
Patricia Soltanis
Vol. 2004 Pg. 13
Assessor's Map 83, Lot 8

N/F
Russel T. Reith &
Alping Reith
Vol. 1102 Pg. 156
Assessor's Map 83, Lot 9

N/F
Carl Ruspini
Vol. 807 Pg. 30
Assessor's Map 83, Lot 10.2
(B/D)

PLANTING LEGEND:



SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS

PLANT SCHEDULE:

DECIDUOUS TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	0	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	0	Acer x Freemannii 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	0	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	0	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

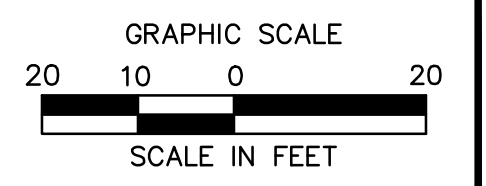
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	0	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

SHRUBS AND ORNAMENTAL GRASSES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	0	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	0	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	0	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	0	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	0	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	0	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JC	0	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VD	0	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.

WETLAND BUFFER PLANTS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	2	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	6	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	7	Comptonia peregrina	SWEET FERN	18"-24"
WB	0	Ilex verticillata	WINTERBERRY	18"-24"
VC	8	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"



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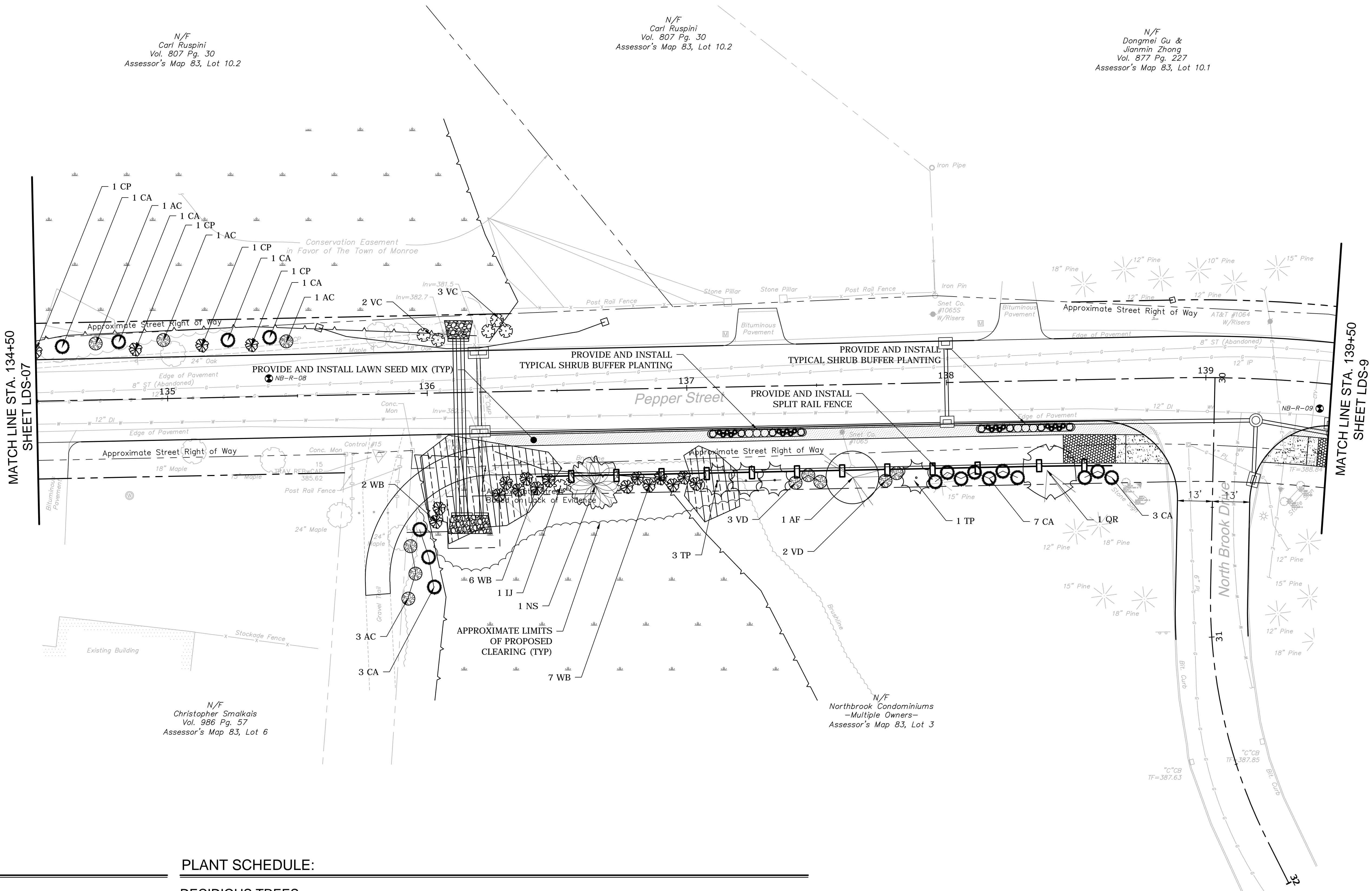
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Carl Ruspini
Vol. 807 Pg. 30
Assessor's Map 83, Lot 10.2

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Carl Ruspini
Vol. 807 Pg. 30
Assessor's Map 83, Lot 10.2

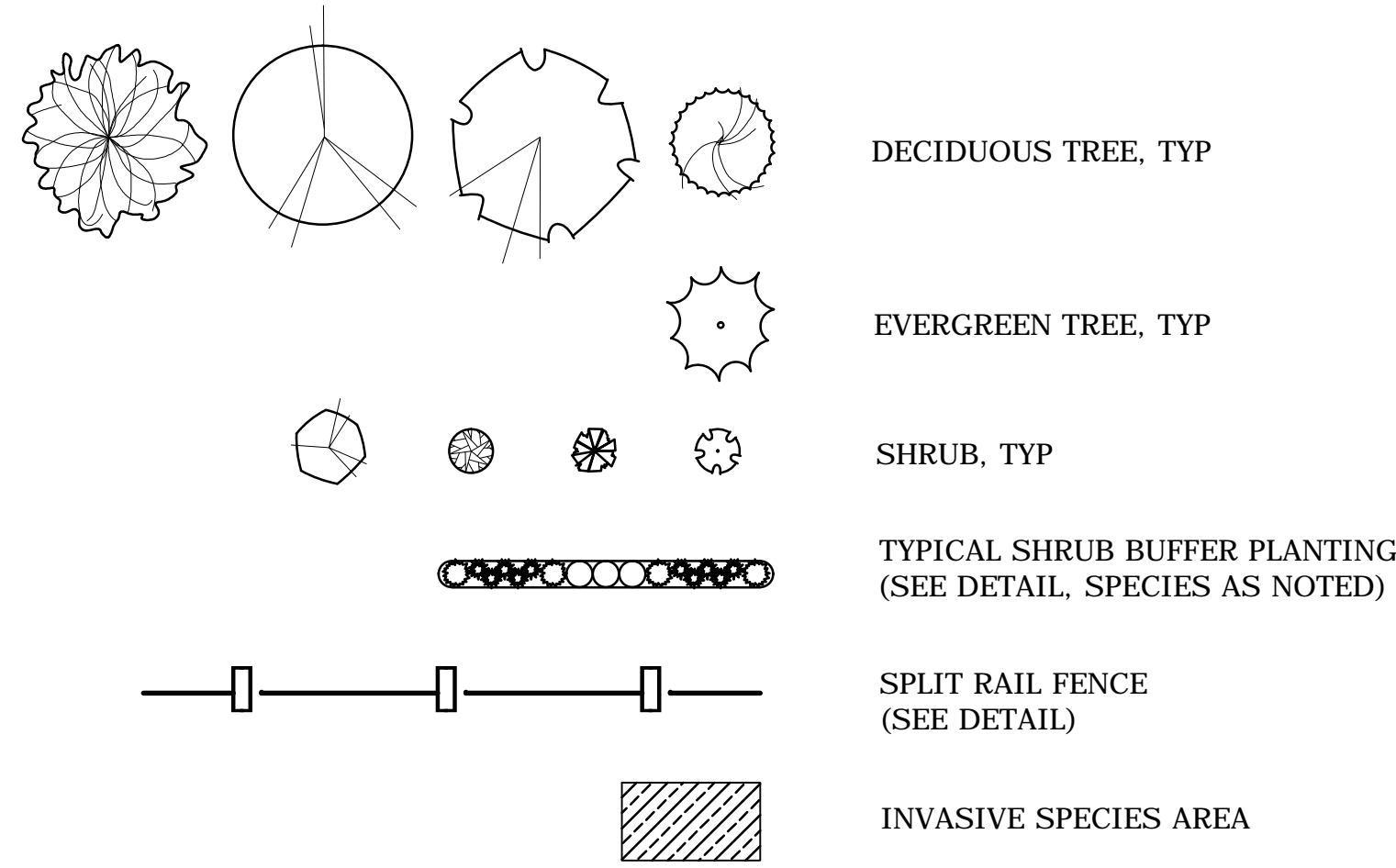
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Jianmin Zhong
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N/F
Christopher Smalkais
Vol. 986 Pg. 57
Assessor's Map 83, Lot 6

N/F
Northbrook Condominiums
-Multiple Owners-
Assessor's Map 83, Lot 3



PLANTING LEGEND:



PLANT SCHEDULE:

DECIDUOUS TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	0	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	1	Acer x Freemannii 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	1	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	1	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

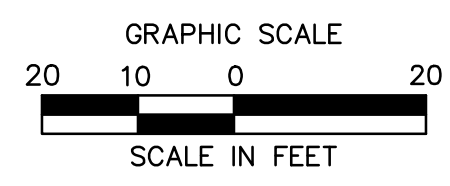
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	4	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

SHRUBS AND ORNAMENTAL GRASSES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	0	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	10	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	20	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	6	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	1	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	0	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JC	8	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VD	5	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.

WETLAND BUFFER PLANTS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	6	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	7	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	4	Comptonia peregrina	SWEET FERN	18"-24"
WB	15	Ilex verticillata	WINTERBERRY	18"-24"
VC	5	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"



SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS

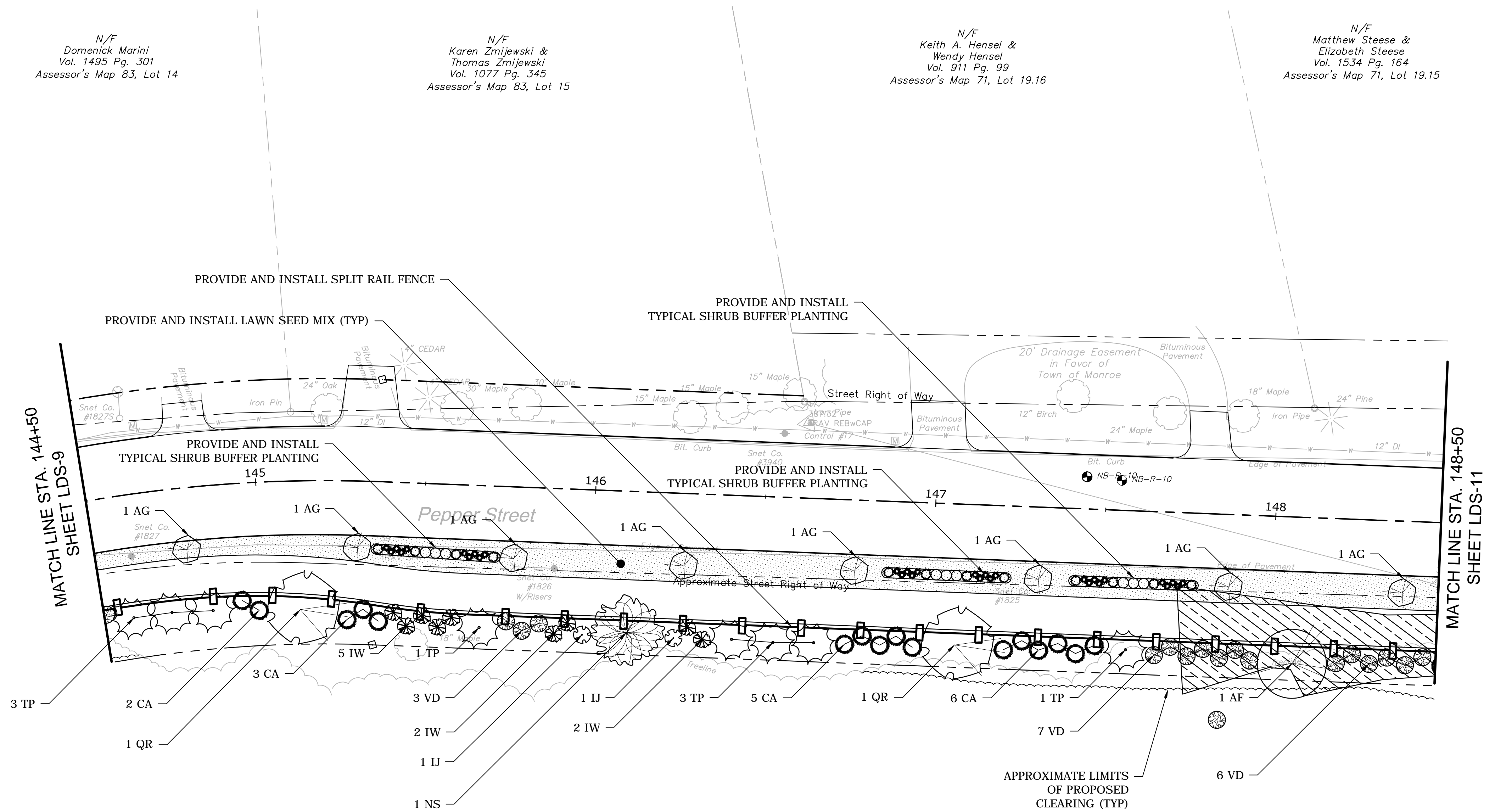


N/F
Domenick Marini
Vol. 1495 Pg. 301
Assessor's Map 83, Lot 14

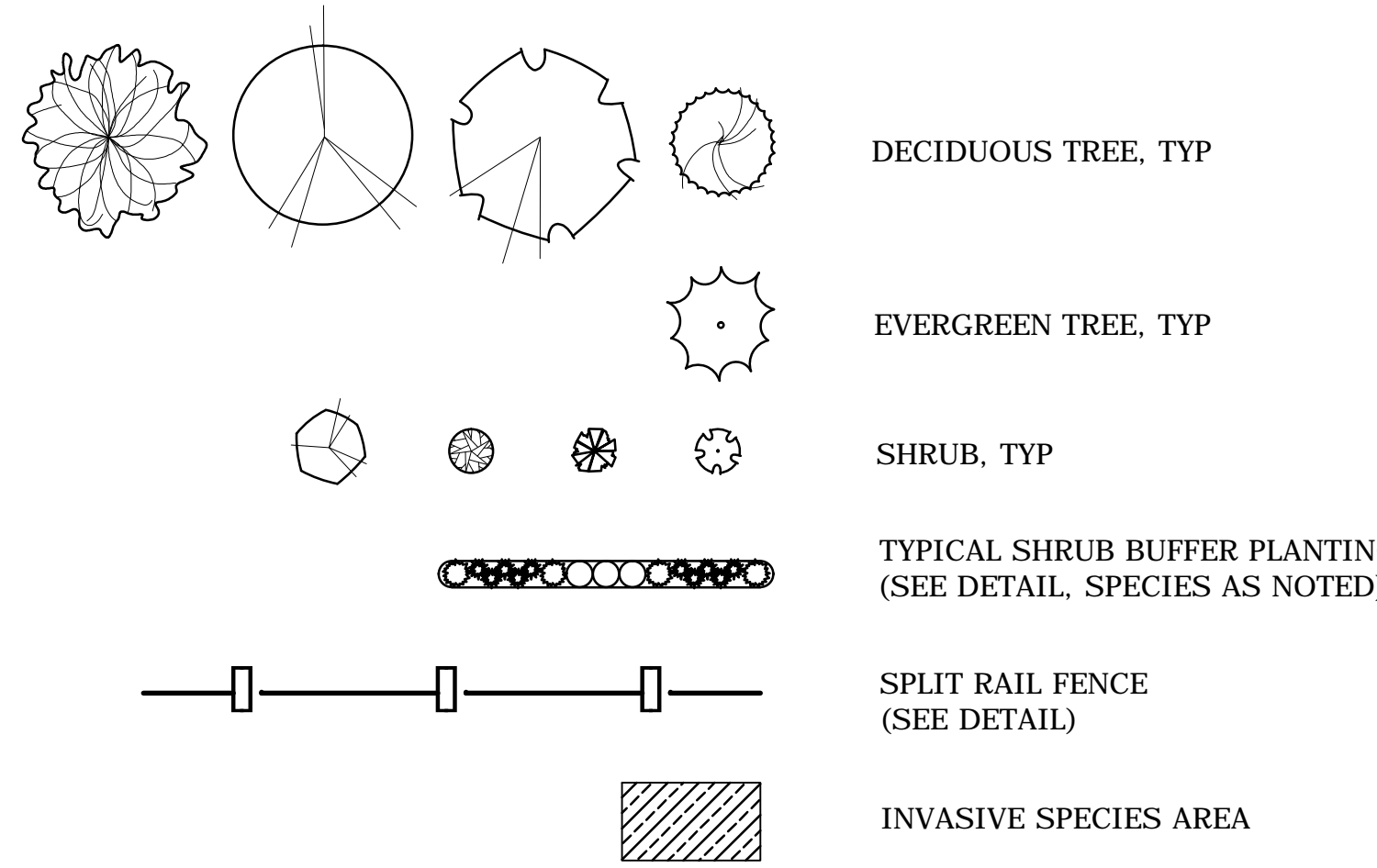
N/F
Karen Zmijewski &
Thomas Zmijewski
Vol. 1077 Pg. 345
Assessor's Map 83, Lot 15

N/F
Keith A. Hensel &
Wendy Hensel
Vol. 911 Pg. 99
Assessor's Map 71, Lot 19.16

N/F
Matthew Steese &
Elizabeth Steese
Vol. 1534 Pg. 164
Assessor's Map 71, Lot 19.15



PLANTING LEGEND:



PLANT SCHEDULE:

DECIDUOUS TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	0	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	1	Acer x Freemanni 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	1	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	2	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	8	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

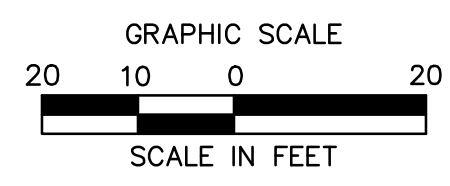
SHRUBS AND ORNAMENTAL GRASSES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	8	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	16	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	30	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	9	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	2	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	9	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JC	12	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VD	16	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.

WETLAND BUFFER PLANTS

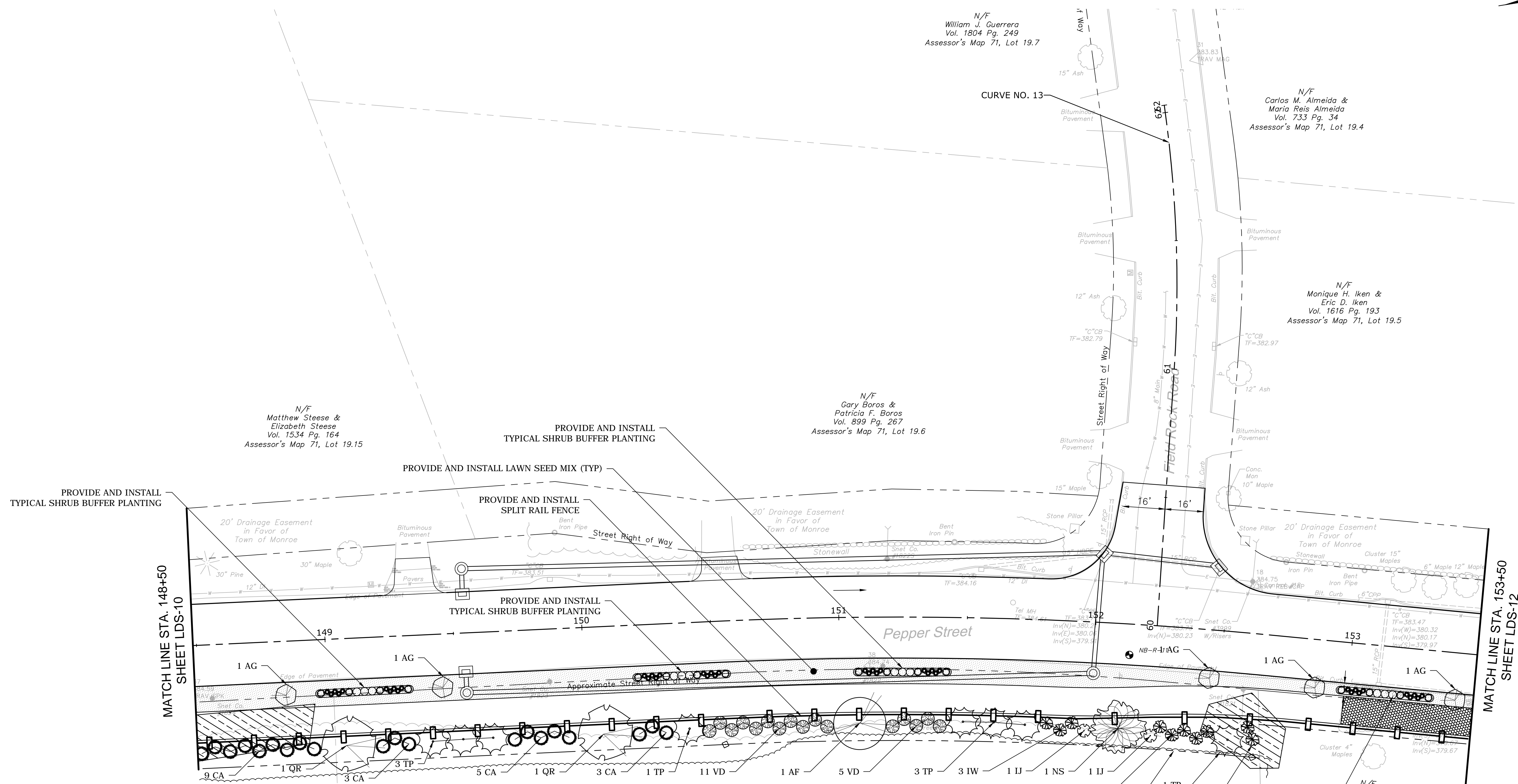
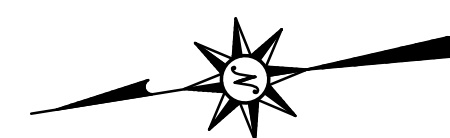
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	0	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	0	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	0	Comptonia peregrina	SWEET FERN	18"-24"
WB	0	Ilex verticillata	WINTERBERRY	18"-24"
VC	0	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"

SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS

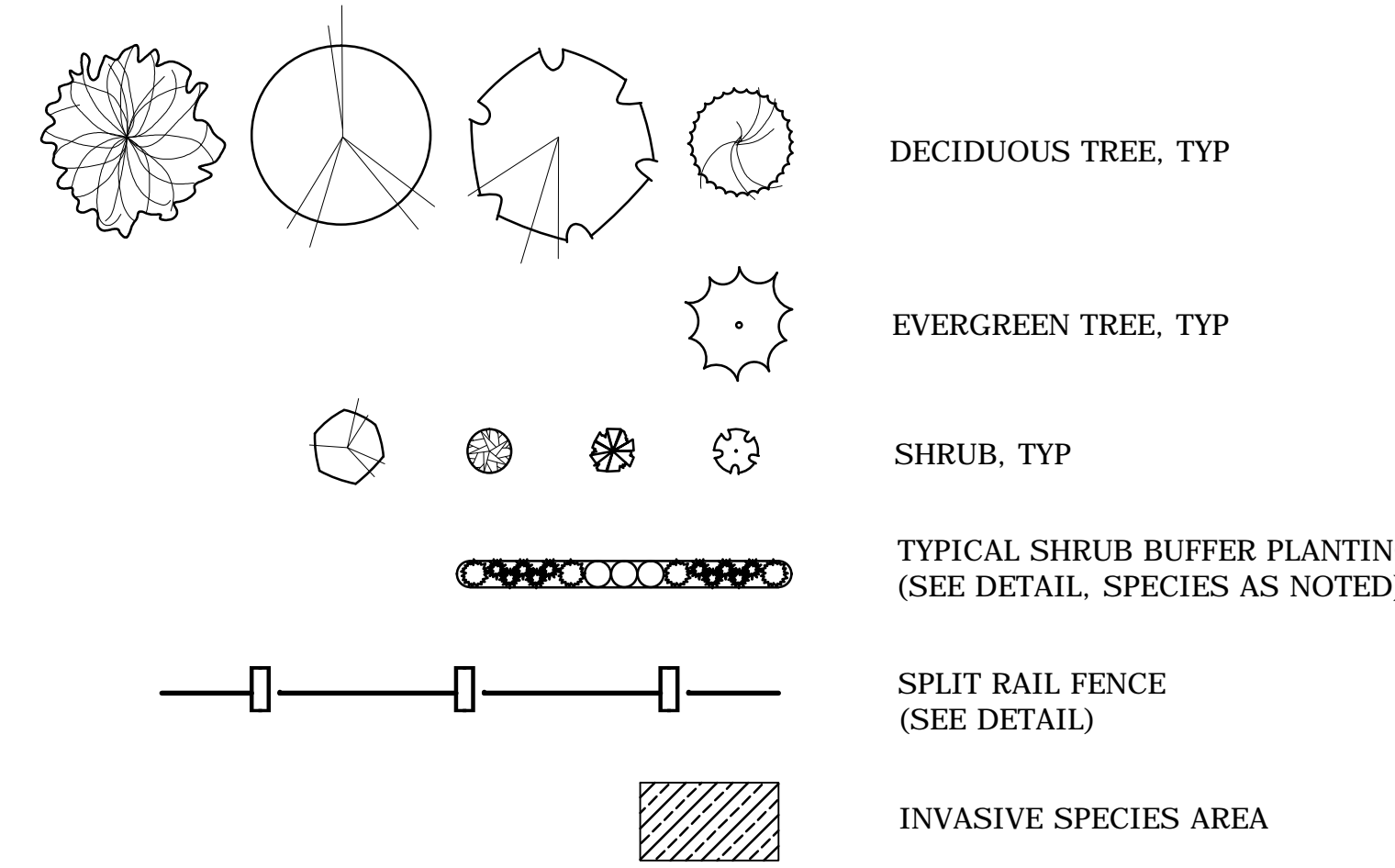


**ROADWAY RECONSTRUCTION
PEPPER STREET
MONROE, CONNECTICUT**

Designed: O.L.C.
Drawn: J.A.K.
Checked: B.J.P.
Approved: 1"=20'
Scale: 12C4326
Project No: 12/08/2016
Date: TLD512C432601
Title: LANDSCAPE PLAN
Sheet No: LDS-10



PLANTING LEGEND:



SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS

PLANT SCHEDULE:

DECIDUOUS TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	0	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	1	Acer x Freemannii 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	1	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	2	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

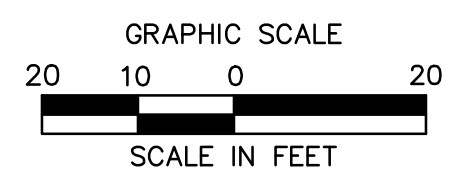
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	8	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

SHRUBS AND ORNAMENTAL GRASSES

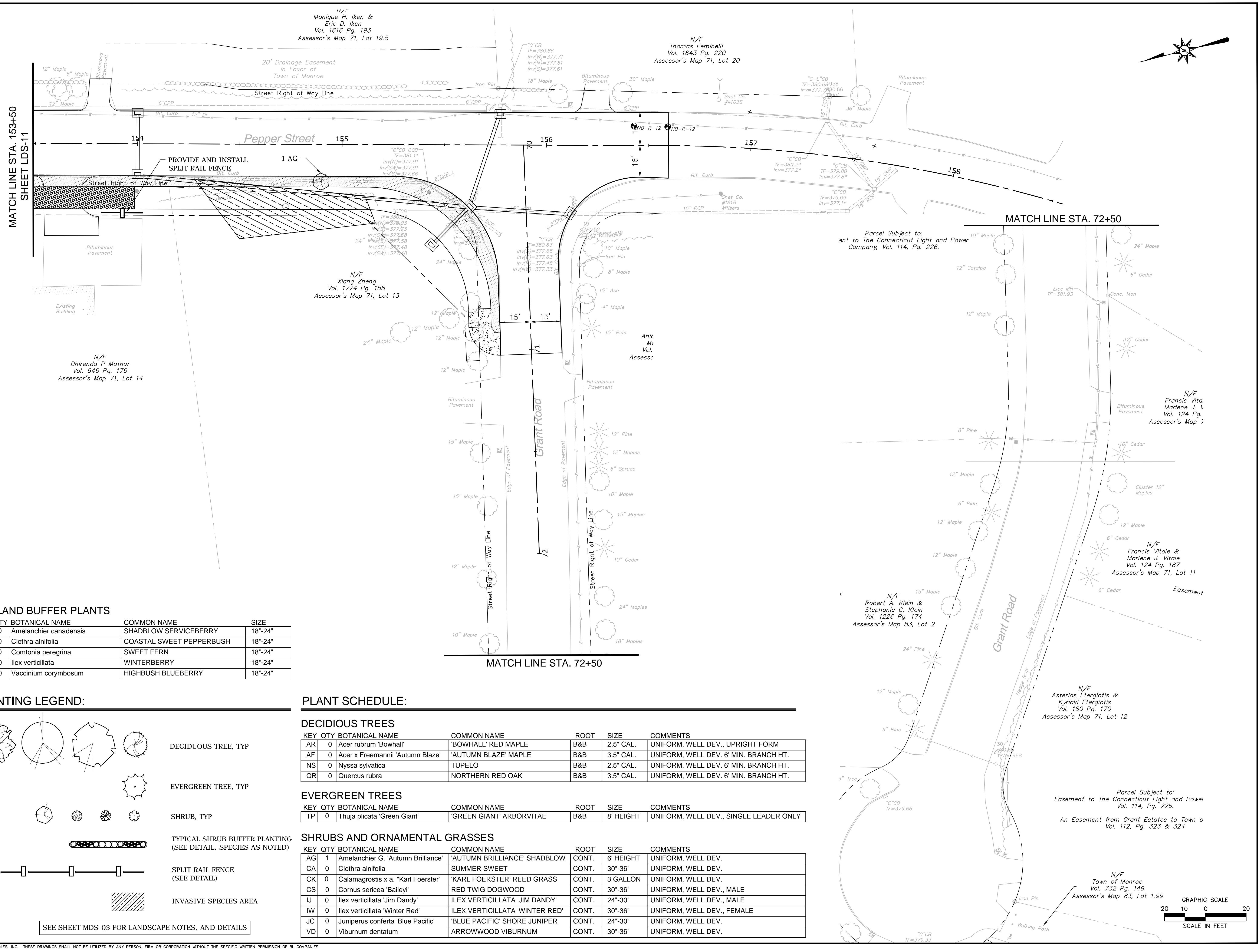
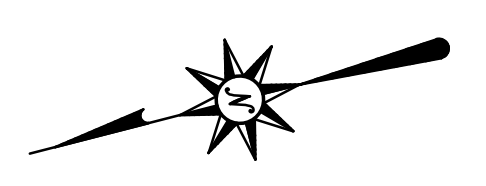
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	5	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	20	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	40	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	12	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	2	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	10	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JC	16	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VD	16	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.

WETLAND BUFFER PLANTS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	0	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	0	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	0	Comptonia peregrina	SWEET FERN	18"-24"
WB	0	Ilex verticillata	WINTERBERRY	18"-24"
VC	0	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"



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WETLAND BUFFER PLANTS

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
AC	0	Amelanchier canadensis	SHADBLOW SERVICEBERRY	18"-24"
CA	0	Clethra alnifolia	COASTAL SWEET PEPPERBUSH	18"-24"
CP	0	Comptonia peregrina	SWEET FERN	18"-24"
WB	0	Ilex verticillata	WINTERBERRY	18"-24"
VC	0	Vaccinium corymbosum	HIGHBUSH BLUEBERRY	18"-24"

PLANTING LEGEND:

DECIDUOUS TREE, TYP

EVERGREEN TREE, TYP

SHRUB, TYP

TYPICAL SHRUB BUFFER PLANTING (SEE DETAIL, SPECIES AS NOTED)

SPLIT RAIL FENCE (SEE DETAIL)

INVASIVE SPECIES AREA

SEE SHEET MDS-03 FOR LANDSCAPE NOTES, AND DETAILS

PLANT SCHEDULE:

DECIDUOUS TREES

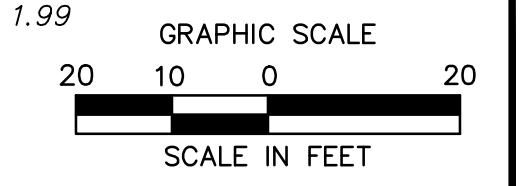
KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AR	0	Acer rubrum 'Bowhall'	'BOWHALL' RED MAPLE	B&B	2.5" CAL.	UNIFORM, WELL DEV., UPRIGHT FORM
AF	0	Acer x Freemannii 'Autumn Blaze'	'AUTUMN BLAZE' MAPLE	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
NS	0	Nyssa sylvatica	TUPELO	B&B	2.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.
QR	0	Quercus rubra	NORTHERN RED OAK	B&B	3.5" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCH HT.

EVERGREEN TREES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
TP	0	Thuja plicata 'Green Giant'	'GREEN GIANT' ARBORVITAE	B&B	8' HEIGHT	UNIFORM, WELL DEV., SINGLE LEADER ONLY

SHRUBS AND ORNAMENTAL GRASSES

KEY	QTY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AG	1	Amelanchier G. 'Autumn Brilliance'	'AUTUMN BRILLIANCE' SHADBLOW	CONT.	6' HEIGHT	UNIFORM, WELL DEV.
CA	0	Clethra alnifolia	SUMMER SWEET	CONT.	30"-36"	UNIFORM, WELL DEV.
CK	0	Calamagrostis x a. 'Karl Foerster'	'KARL FOERSTER' REED GRASS	CONT.	3 GALLON	UNIFORM, WELL DEV.
CS	0	Cornus sericea 'Bailey'	RED TWIG DOGWOOD	CONT.	30"-36"	UNIFORM, WELL DEV., MALE
IJ	0	Ilex verticillata 'Jim Dandy'	ILEX VERTICILLATA 'JIM DANDY'	CONT.	24"-30"	UNIFORM, WELL DEV., MALE
IW	0	Ilex verticillata 'Winter Red'	ILEX VERTICILLATA 'WINTER RED'	CONT.	30"-36"	UNIFORM, WELL DEV., FEMALE
JC	0	Juniperus conferta 'Blue Pacific'	'BLUE PACIFIC' SHORE JUNIPER	CONT.	24"-30"	UNIFORM, WELL DEV.
VD	0	Viburnum dentatum	ARROWWOOD VIBURNUM	CONT.	30"-36"	UNIFORM, WELL DEV.



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