

03 - HIGHWAY
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DESIGNED BY: BENESCH



REV	DATE	REVISION DESCRIPTION

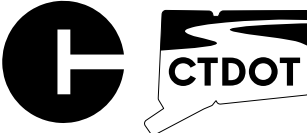
SIGNATURE BLOCK:



DESIGNER/DRAFTER: N. BROWN, L. ADHIKARY



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120 Western Avenue
2nd Floor
Greenwich, CT



CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

CHECKED BY: R. ALLARD

PROJECT TITLE:

REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD
OVER PACHAUG RIVER

TOWN(S):



VOLUNTOWN

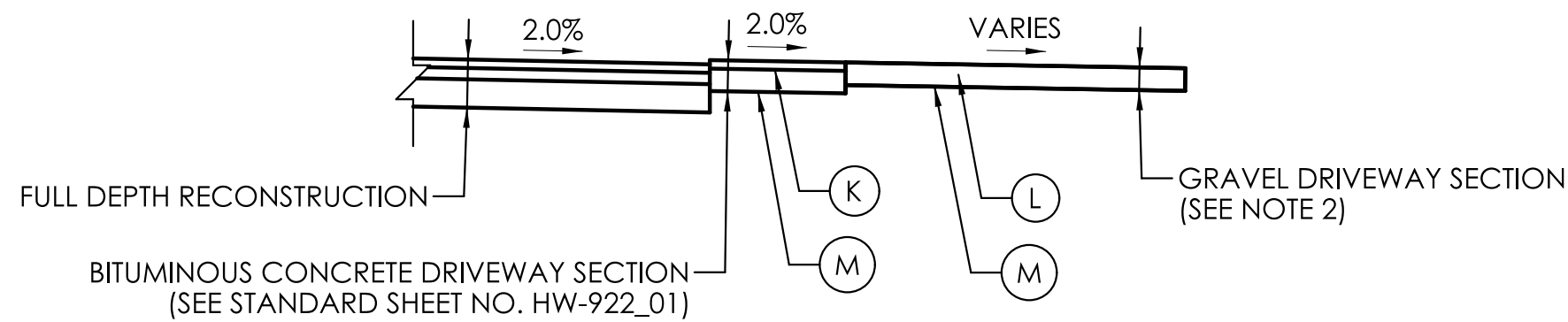
DRAWING TITLE:

INDEX OF DRAWINGS

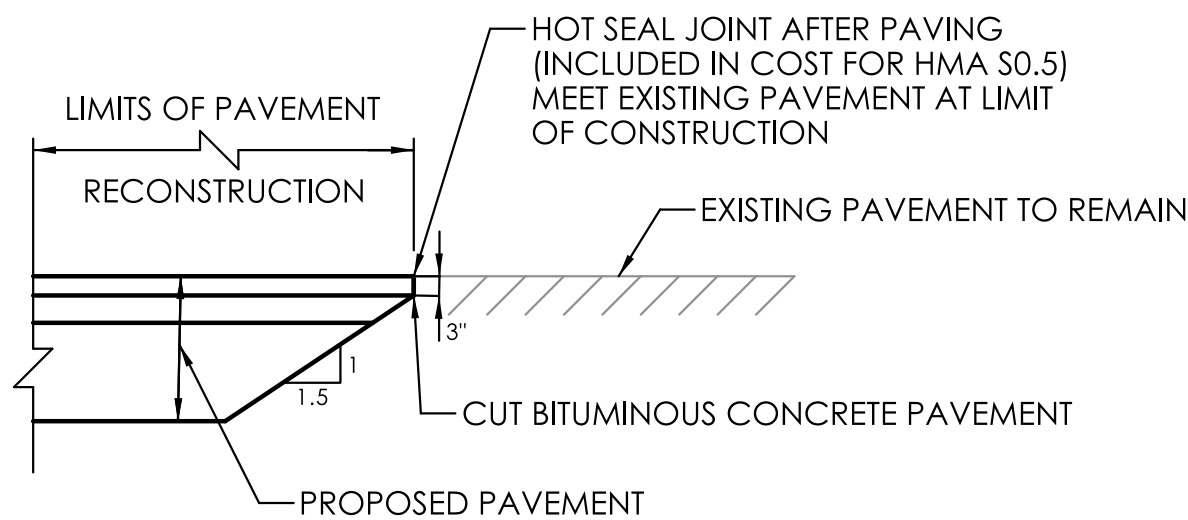
PROJECT NO.: 0147-0062

DRAWING NO.: INX-03

SHEET NO.: 03.01



GRAVEL DRIVEWAY DETAIL

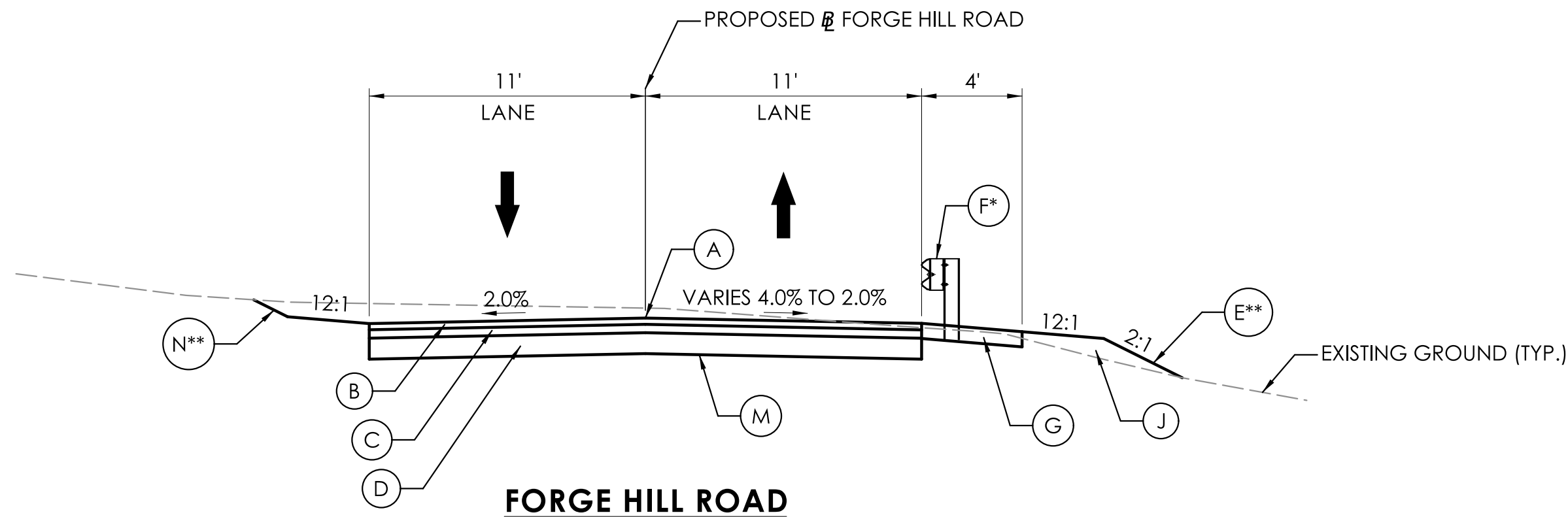


ROADWAY PAVEMENT TRANSITION DETAIL
FULL DEPTH CONSTRUCTION LIMIT

NOTES

1. EROSION CONTROL MATTING TYPE D SHALL BE INSTALLED ON ALL PERMANENT SLOPES STEEPER THAN 3:1, WITH EXCEPTION TO AREAS OF NATURAL STREAMBED INSTALLATION.
2. GRAVEL DRIVEWAY TO BE PAID FOR UNDER ITEM NO. 0304002 - PROCESSED AGGREGATE BASE.

- (A) POINT OF APPLIED GRADE
- (B) 3" HMA S0.5 TRAFFIC LEVEL 2 (PLACED IN ONE LIFT)
- (C) 4" HMA S1 TRAFFIC LEVEL 2 (PLACED IN ONE LIFT)
- (D) 10" PROCESSED AGGREGATE BASE
- (E) 4" FURNISH AND PLACE TOPSOIL WITH WETLAND GRASS ESTABLISHMENT
- (F) ROADSIDE SAFETY
- (G) 6" PROCESSED AGGREGATE
- (H) 12" MODIFIED RIPRAP
- (I) 4" FURNISH AND PLACE TOPSOIL WITH CONSERVATION SEEDING FOR SLOPES OR TURF ESTABLISHMENT - LAWN, AS INDICATED ON THE PLANS
- (J) FILL
- (K) BITUMINOUS CONCRETE DRIVEWAY
- (L) 8" GRAVEL DRIVEWAY
- (M) FORMATION OF SUBGRADE
- (N) 4" FURNISH AND PLACE TOPSOIL WITH TURF ESTABLISHMENT - LAWN
- ↑ DIRECTION OF TRAVEL

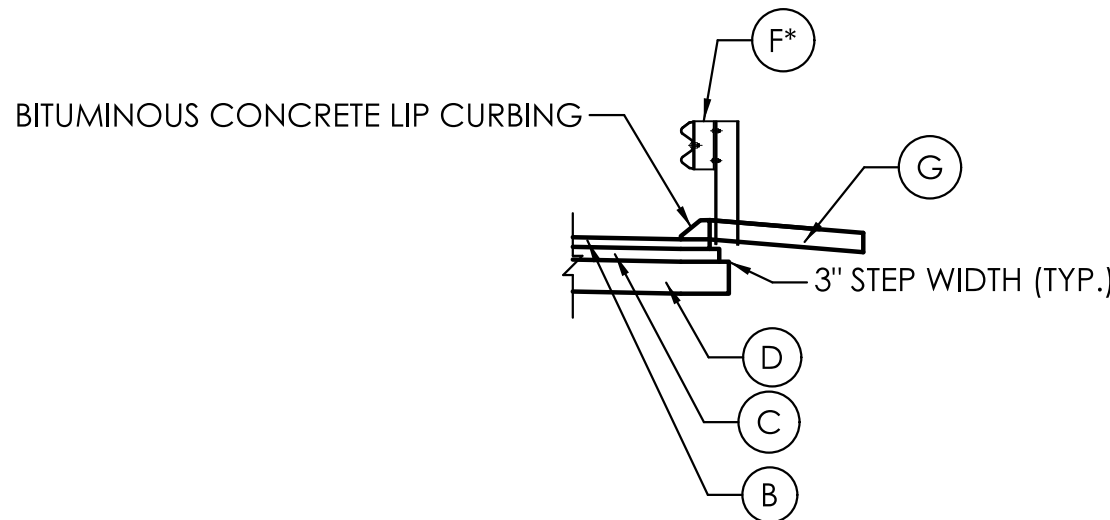


FORGE HILL ROAD

STA. 11+50 TO STA. 14+32

*ROADSIDE SAFETY LOCATED FROM
STA. 11+50 TO STA. 12+14 RT
STA. 12+86 TO STA. 13+36 RT
REFER TO PLN-01 FOR DETAILS

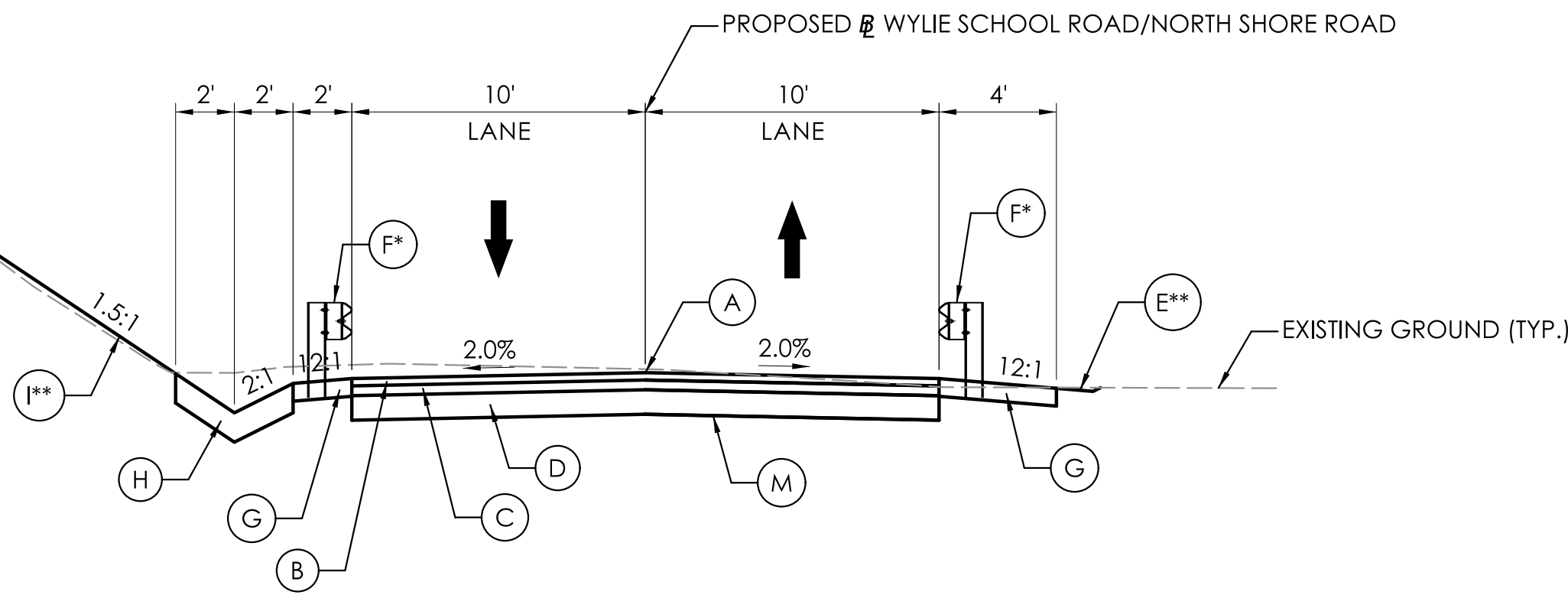
**REFER TO PMT-07 FOR SLOPE DETAILS



CURBING DETAIL

STA. 11+50 TO 12+35 LT
STA. 11+50 TO 12+42 RT

*ROADSIDE SAFETY LOCATED FROM
STA. 11+50 TO STA. 12+14 RT
REFER TO PLN-01 FOR DETAILS



WYLIE SCHOOL ROAD
NORTH SHORE ROAD

STA. 22+50 TO STA. 26+00

*ROADSIDE SAFETY LOCATED FROM
STA. 22+76 TO STA. 24+53 LT
STA. 23+15 TO STA. 24+58 RT
STA. 24+83 TO STA. 26+05 RT
REFER TO PLN-01 FOR DETAILS

**REFER TO PMT-07 FOR SLOPE DETAILS

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2nd Floor
Greenwich, CT

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0 5 10
HORIZONTAL SCALE
1" = 5'

CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

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REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD
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TOWN(S):

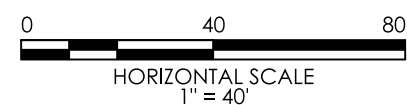
VOLUNTOWN

DRAWING TITLE:

TYPICAL SECTIONS

PROJECT NO.:
0147-0062

DRAWING NO.:
TYP-01
SHEET NO.:
03.02

[illegible]

CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:

REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD OVER PACHAUG RIVER

**VOLUNTOWN**

DRAWING TITLE:

ALIGNMENT PLAN

PROJECT NO.:

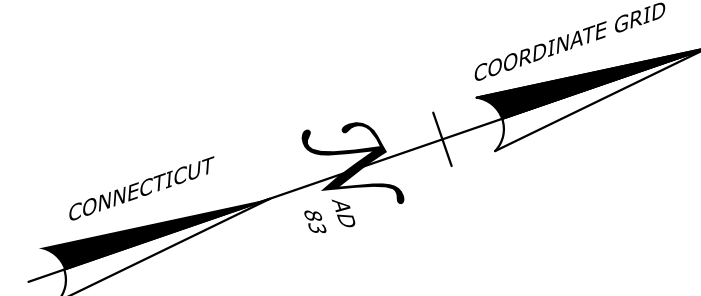
0147-0062

DRAWING NO.:

DRAWING NO.:
ALN-01

SHEET NO.:
03.03

ALIGNMENT NAME - FORGE HILL ROAD														
CURVE	PC			PI			PT			DELTA	DEGREE OF CURVATURE	T	L	R
	STA.	NORTHING	EASTING	STA.	NORTHING	EASTING	STA.	NORTHING	EASTING					
CURVE #1	12+09.89	773705.30	1254313.38	13+09.83	773702.19	1254213.49	13+57.11	773801.28	1254226.46	99°14'08"	67°24'24"	99.94'	147.22'	85.00'
ALIGNMENT NAME - WYLIE SCHOOL ROAD/NORTH SHORE ROAD														
CURVE	PC			PI			PT			DELTA	DEGREE OF CURVATURE	T	L	R
	STA.	NORTHING	EASTING	STA.	NORTHING	EASTING	STA.	NORTHING	EASTING					
CURVE #2	21+91.86	773956.01	1253975.11	22+82.75	773954.93	1254065.98	23+70.60	773914.67	1254147.47	25°36'06"	14°19'26"	90.88'	178.73'	400.00'
CURVE #3	24+23.96	773891.04	1254195.31	24+94.81	773859.66	1254258.84	25+56.35	773888.80	1254323.43	50°34'17"	38°11'50"	70.86'	132.40'	150.00'
CURVE #4	26+22.53	773916.02	1254383.75	26+68.11	773934.76	1254425.30	27+13.30	773962.37	1254461.56	13°00'06"	14°19'26"	45.58'	90.77'	400.00'
ALIGNMENT NAME - DRIVEWAY 1														
CURVE	PC			PI			PT			DELTA	DEGREE OF CURVATURE	T	L	R
	STA.	NORTHING	EASTING	STA.	NORTHING	EASTING	STA.	NORTHING	EASTING					
DC1	0+00.00	773717.41	1254266.93	0+23.85	773699.27	1254251.46	0+47.46	773685.34	1254232.1	13°47'07"	29°02'37"	23.85'	47.46'	197.27'
ALIGNMENT NAME - DRIVEWAY 3														
CURVE	PC			PI			PT			DELTA	DEGREE OF CURVATURE	T	L	R
	STA.	NORTHING	EASTING	STA.	NORTHING	EASTING	STA.	NORTHING	EASTING					
DC2	0+00.00	773778.63	1254226.54	0+46.29	773783.42	1254180.50	0+91.56	773771.55	1254135.75	20°46'51"	22°41'46"	46.29'	91.56'	252.45'



CURBING TABLE			
TYPE	FROM STA.	TO STA.	LENGTH
BCLC	11+50, LT	12+35, LT	89'
BCLC	11+50, RT	12+42, RT	88'

PROPERTY ACQUISITION LEGEND

- A

PARTIAL TAKE, REQUIRED
- B

DRAINAGE RIGHT OF WAY, REQUIRED
- C

EASEMENT TO SLOPE FOR SAFETY OF THE HIGHWAY, REQUIRED
- D

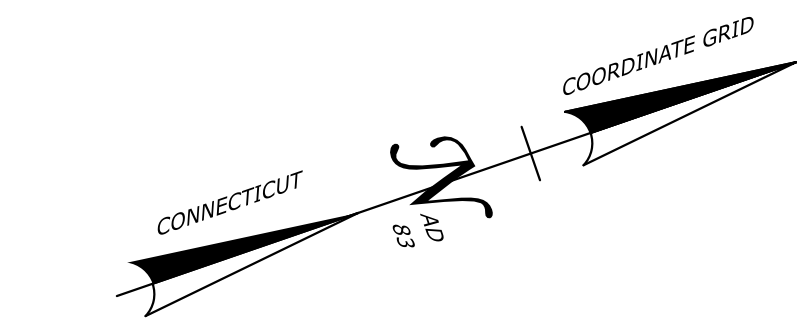
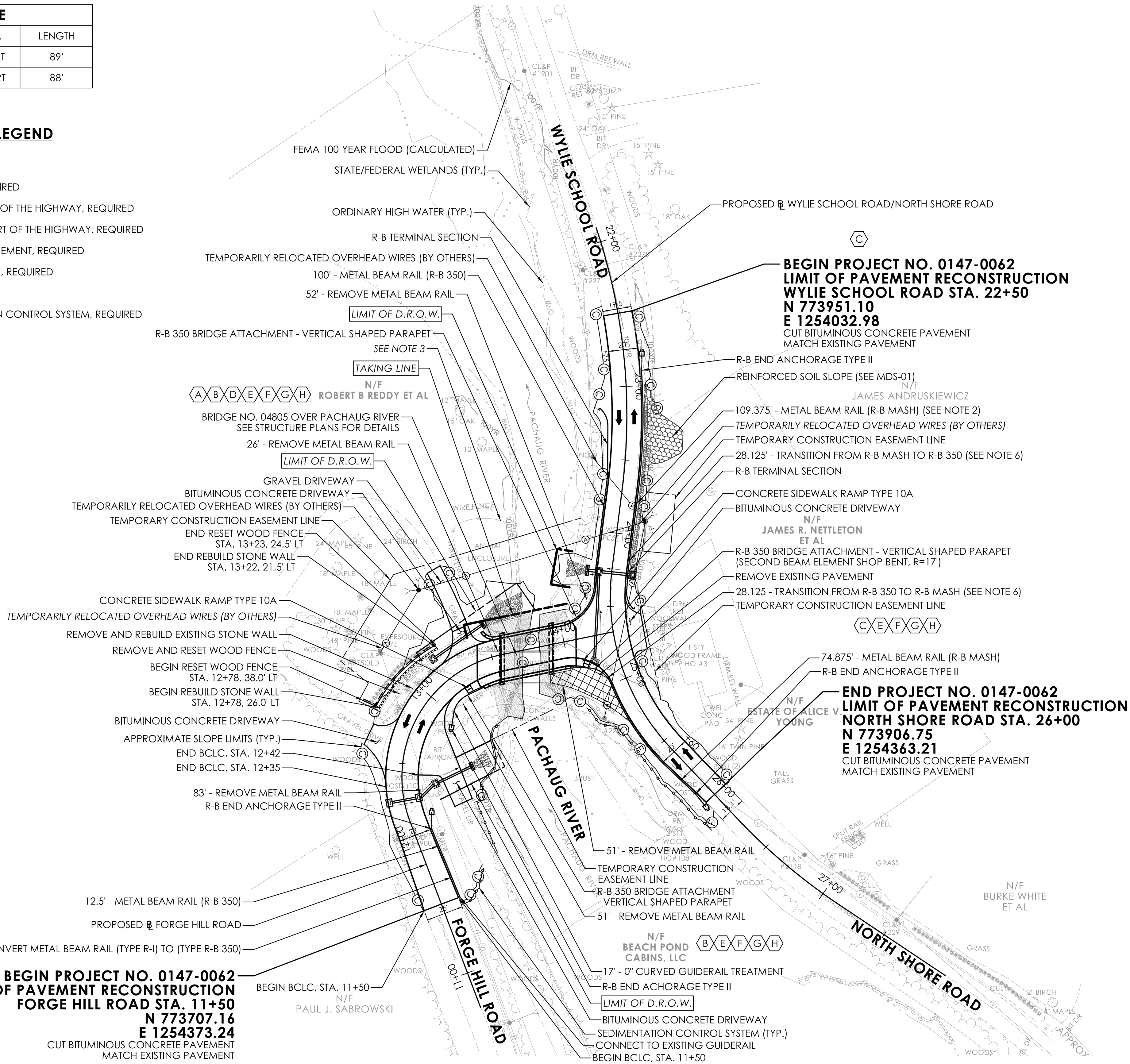
EASEMENT TO SLOPE FOR SUPPORT OF THE HIGHWAY, REQUIRED
- E

TEMPORARY CONSTRUCTION EASEMENT, REQUIRED
- F

RIGHT TO CONSTRUCT DRIVEWAY, REQUIRED
- G

RIGHT TO GRADE, REQUIRED
- H

RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM, REQUIRED



TIME-OF-YEAR RESTRICTION NOTE:

ANY TREE CLEARING WORK INCLUDING TRIMMING, CUTTING AND REMOVAL OF TREES WITH A 3" DBH OR GREATER SHOULD BE RESTRICTED TO THE PERIOD FROM NOVEMBER 1 TO APRIL 14. GROUND DISTURBING ACTIVITIES SHOULD BE DONE BETWEEN APRIL 1 AND OCTOBER 31 (INCLUSIVE) TO AVOID KILLING HIBERNATING ANIMALS.

NOTES

- REMOVAL OF EXISTING PAVEMENT SHALL BE PAID FOR UNDER ITEM NO. 0202000 - EARTH EXCAVATION.
- 7" STEEL POSTS (W6X.5) ARE REQUIRED ALONG THE WYLIE SCHOOL ROAD SWALE, BETWEEN STA. 23+00 AND 24+00 LT.
- WIRE FENCE ANIMAL ENCLOSURE HAS BEEN REMOVED BY PROPERTY OWNER. ANY SUBSEQUENTLY INSTALLED FENCE WITHIN CONSTRUCTION LIMITS WILL BE REMOVED AND RESET. WORK SHALL BE PAID FOR UNDER ITEM NO. 0906003A - REMOVE AND RESET WIRE FENCE WITH WOOD POSTS.
- MAILBOXES THAT ARE REMOVED AND RESET, AND WOOD POST REMOVAL SHALL BE PAID FOR UNDER "CLEARING AND GRUBBING".
- ALL TREES WITHIN THE APPROXIMATE SLOPE LIMITS AND AS IDENTIFIED ON THE PERMIT PLANTING PLAN SHALL BE REMOVED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- METAL BEAM RAIL TRANSITION FROM R-B 350 TO R-B MASH SHALL BE PAID FOR IN ACCORDANCE WITH STANDARD SHEET NO. HW-910_25a - "METAL BEAM RAIL TRANSITION 350 TO MASH GUIDERAIL". METAL BEAM RAIL TRANSITIONS FROM R-I TO R-B 350 SHALL BE PAID FOR IN ACCORDANCE WITH STANDARD SHEET NO. HW-910_09B - "MISCELLANEOUS GUIDERAIL TRANSITION SHEET 2".
- WASHING-IN OF THE INSTALLED SUPPLEMENTAL STREAMBED CHANNEL MATERIAL SHALL BE PAID FOR UNDER ITEM NO. 0202218 - "WASHING-IN SUPPLEMENTAL STREAMBED MATERIAL"

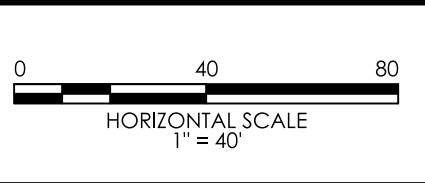
LEGEND

- LIMITS OF FULL DEPTH RECONSTRUCTION
- LIMITS OF PAVEMENT REMOVAL
- TRAFFIC FLOW
- REINFORCED SOIL SLOPE
- NATURAL STREAM BED MATERIAL
- NATURAL STREAM BED MATERIAL ON RIPRAP (VOIDS IN RIPRAP WASHED IN WITH STREAMBED MATERIAL)
- WASHED-IN NATURAL STREAMBED MATERIAL

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

DESIGNER/DRAFTER: N.BROWN, L. ADHIKARY
CHECKED BY: R. ALLARD



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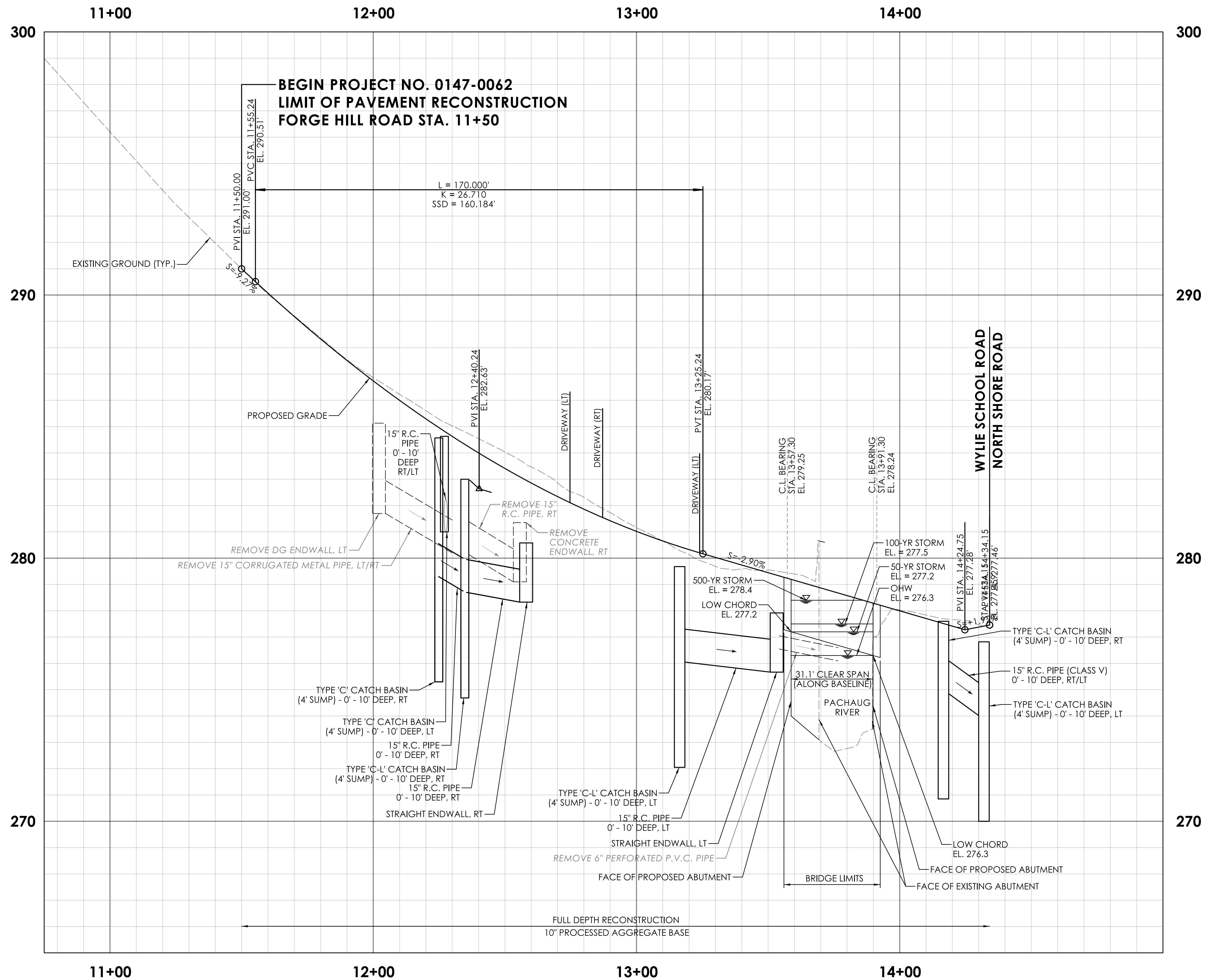
VOLUNTOWN

DRAWING TITLE:

HIGHWAY PLAN

PROJECT NO.:
0147-0062

DRAWING NO.:
PLN-01
SHEET NO.:
03.04



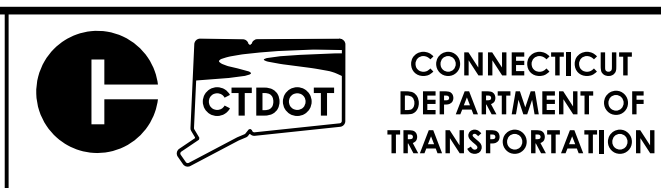
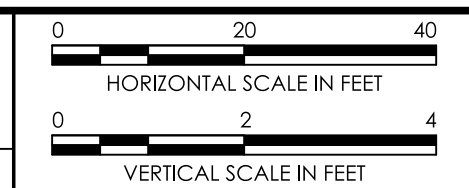
REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

benesch

DESIGNER/DRAFTER: BV

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OVER PACHAUG RIVER**

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VOLUNTOWN

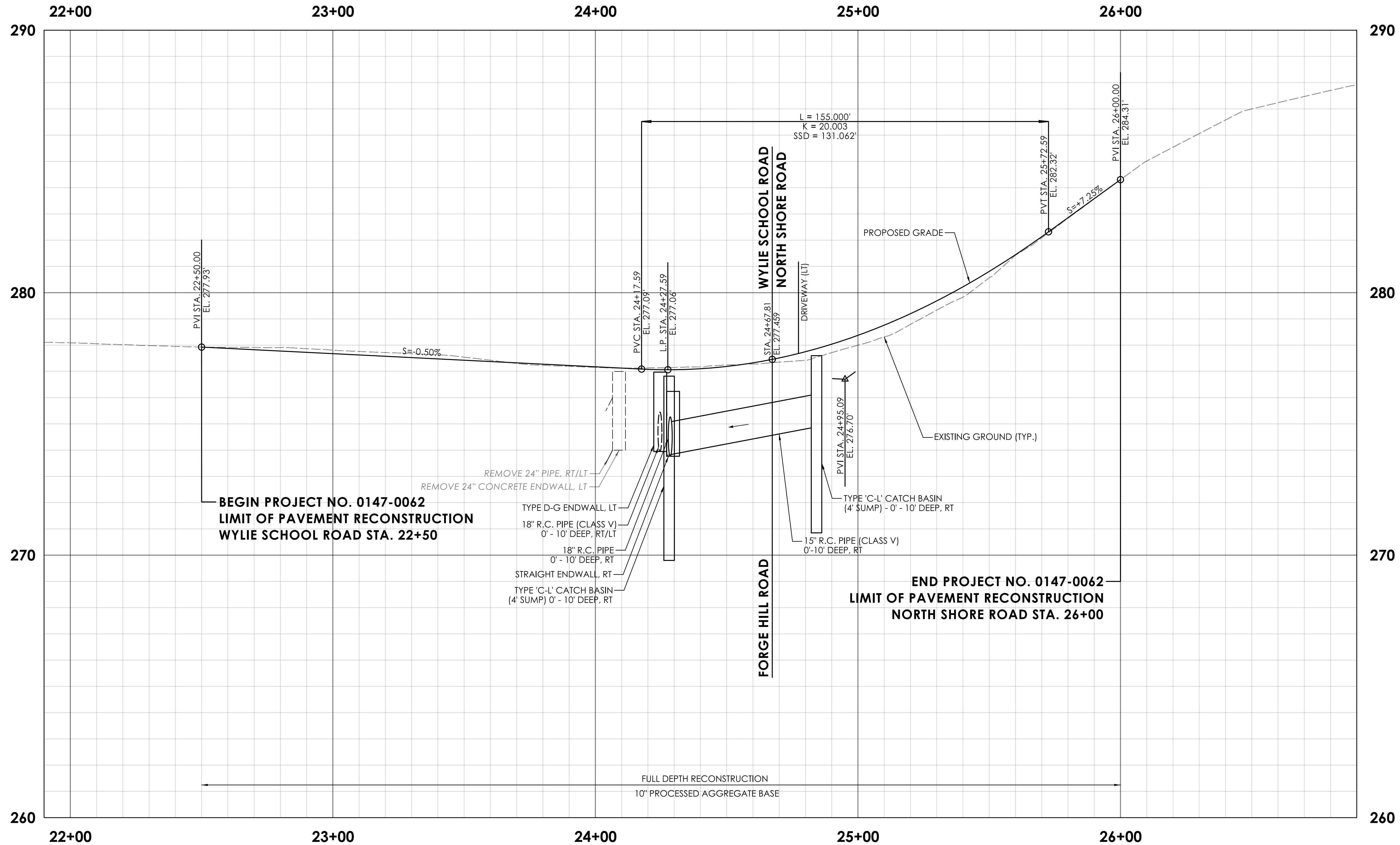
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ROADWAY PROFILE

PROJECT NO.: **0147-0062**

DRAWING NO.: **PRO-01**

SHEET NO.: **03.05**

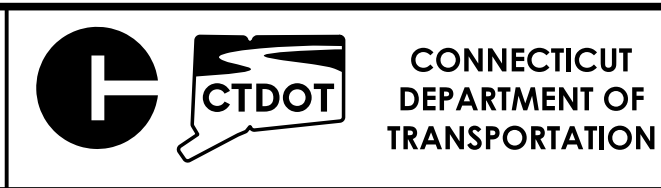
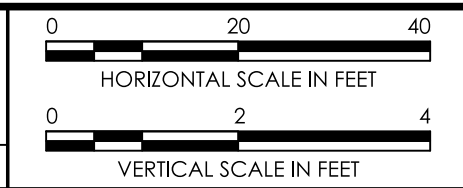


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PROJECT TITLE:
**REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD
OVER PACHAUG RIVER**



DRAWING TITLE:
ROADWAY PROFILE

PROJECT NO.:	DRAWING NO.:
0147-0062	PRO-02
	SHEET NO.:
	03.06

REV.	DATE	REVISION DESCRIPTION

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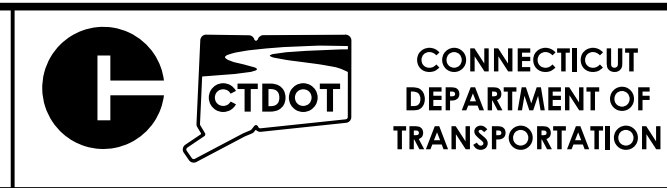
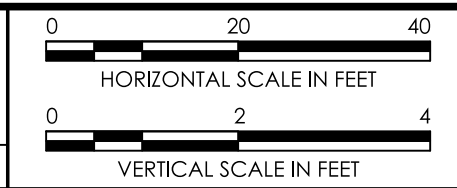
benesch



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**VOLUNTOWN**

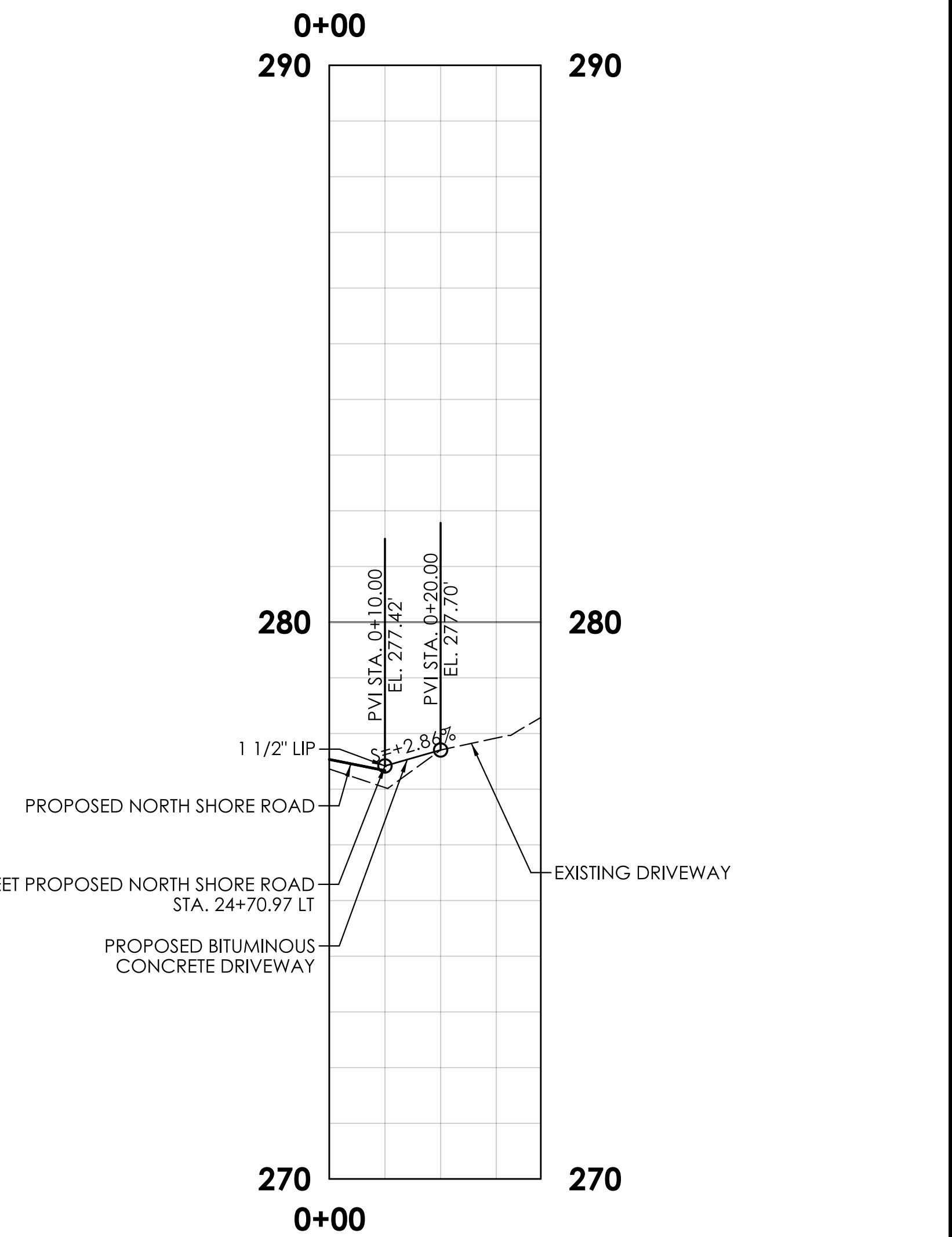
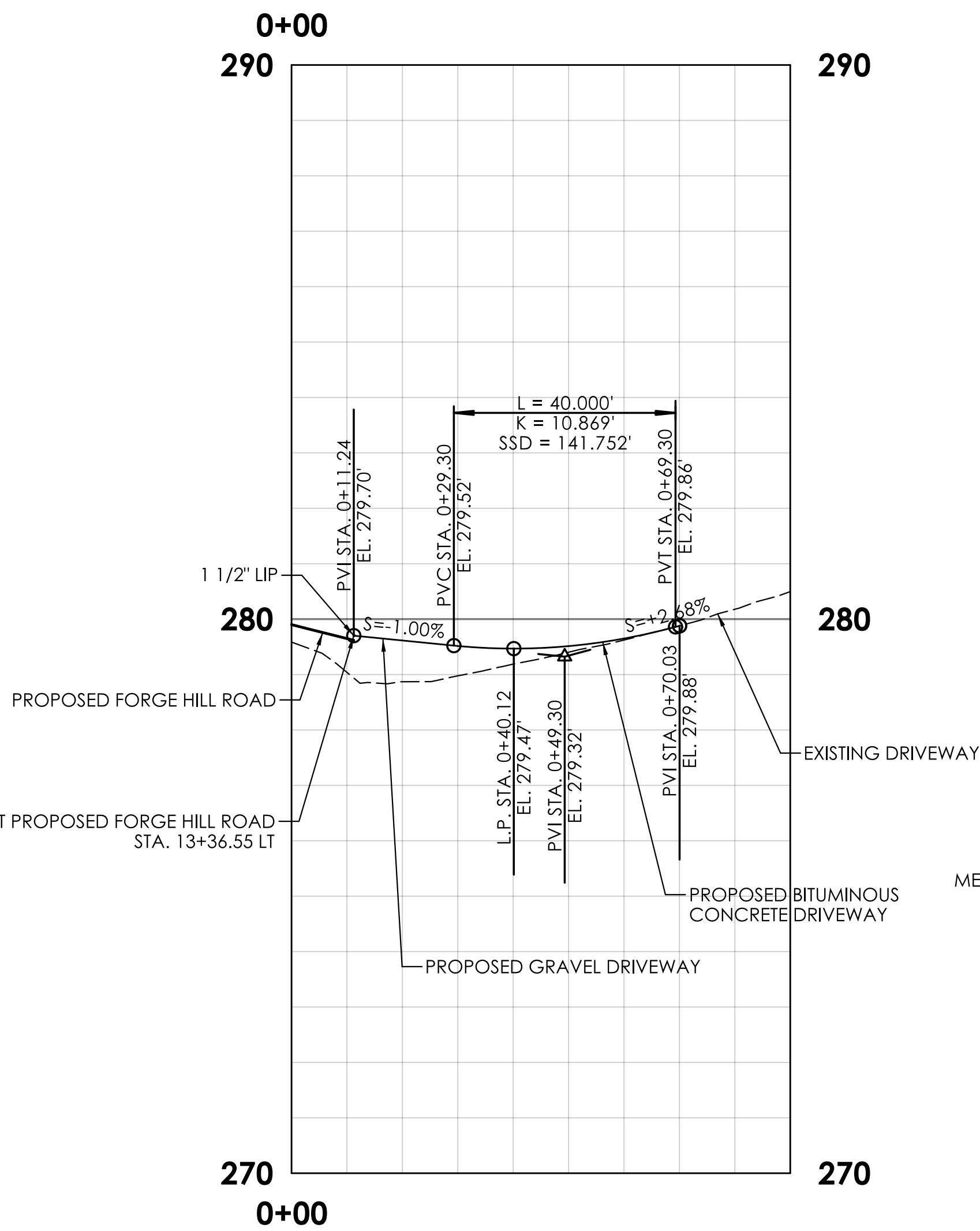
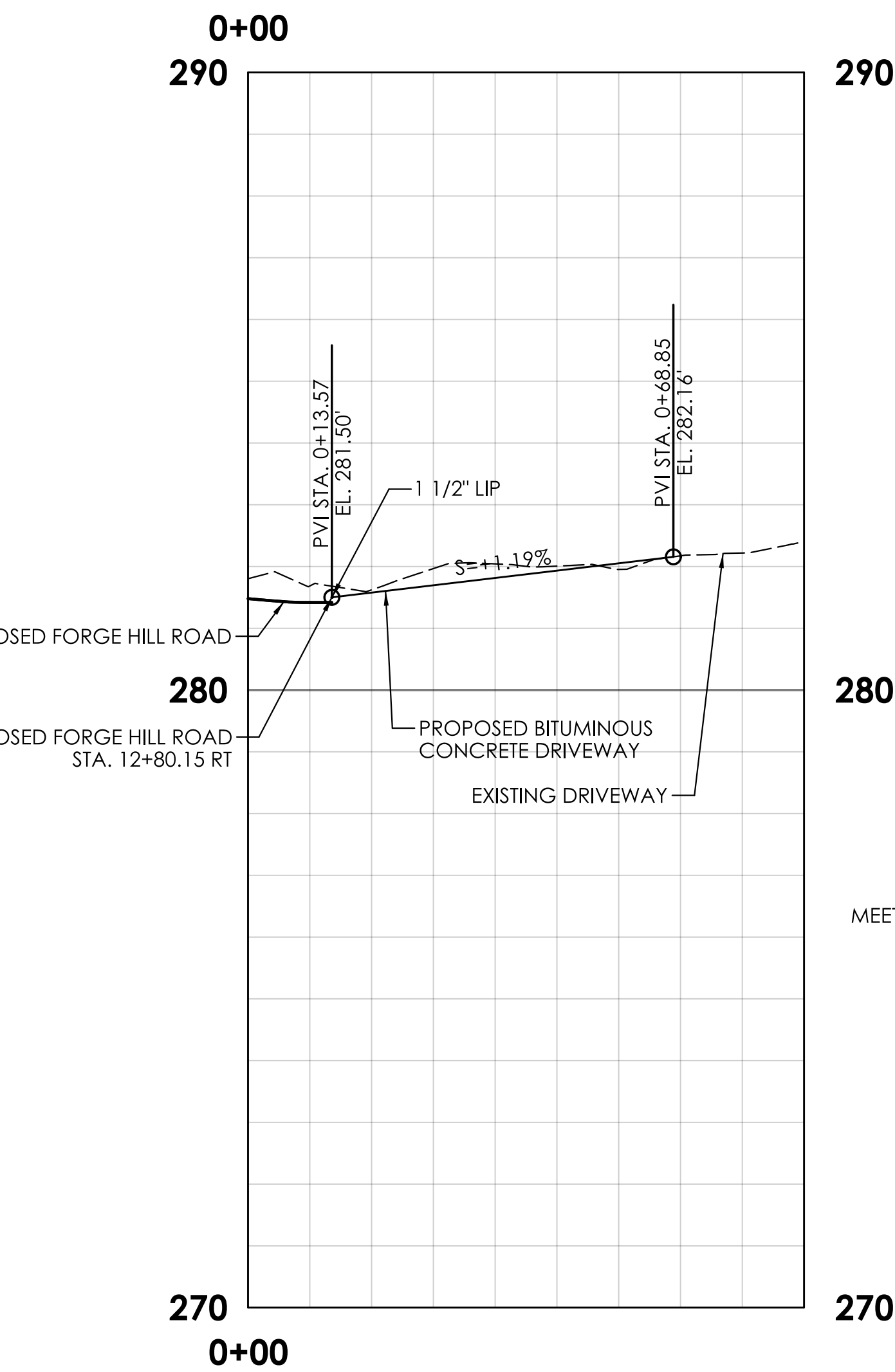
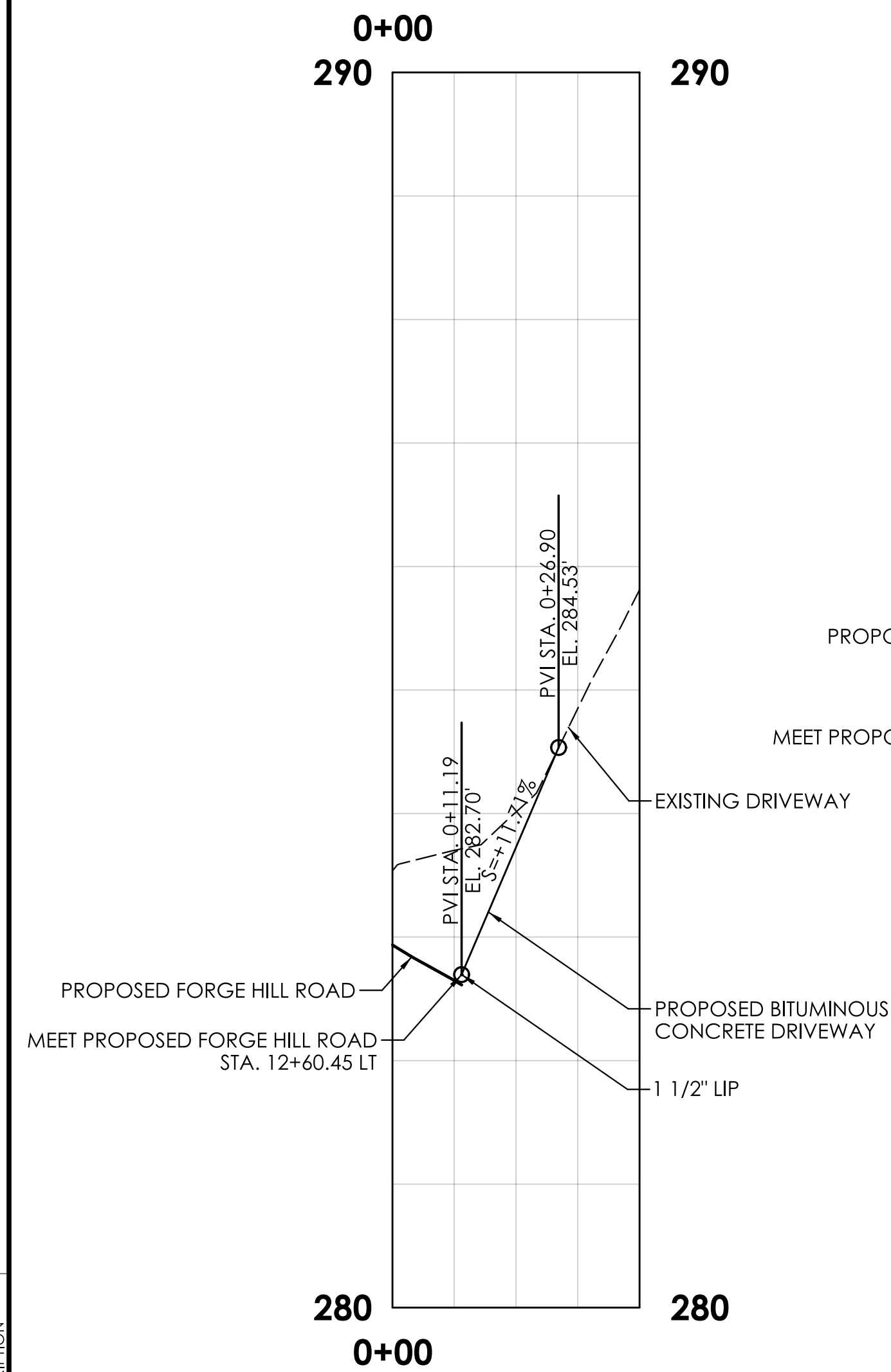
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DRIVEWAY PROFILES

PROJECT NO.:
0147-0062

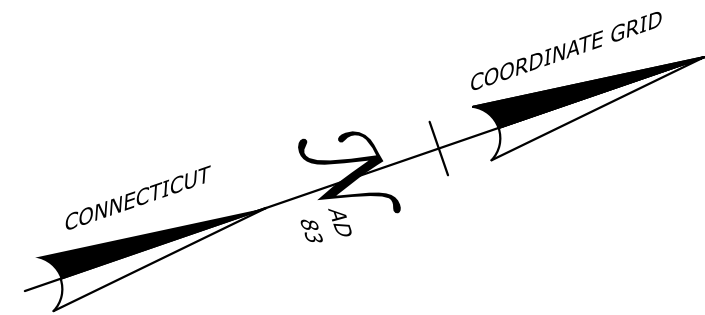
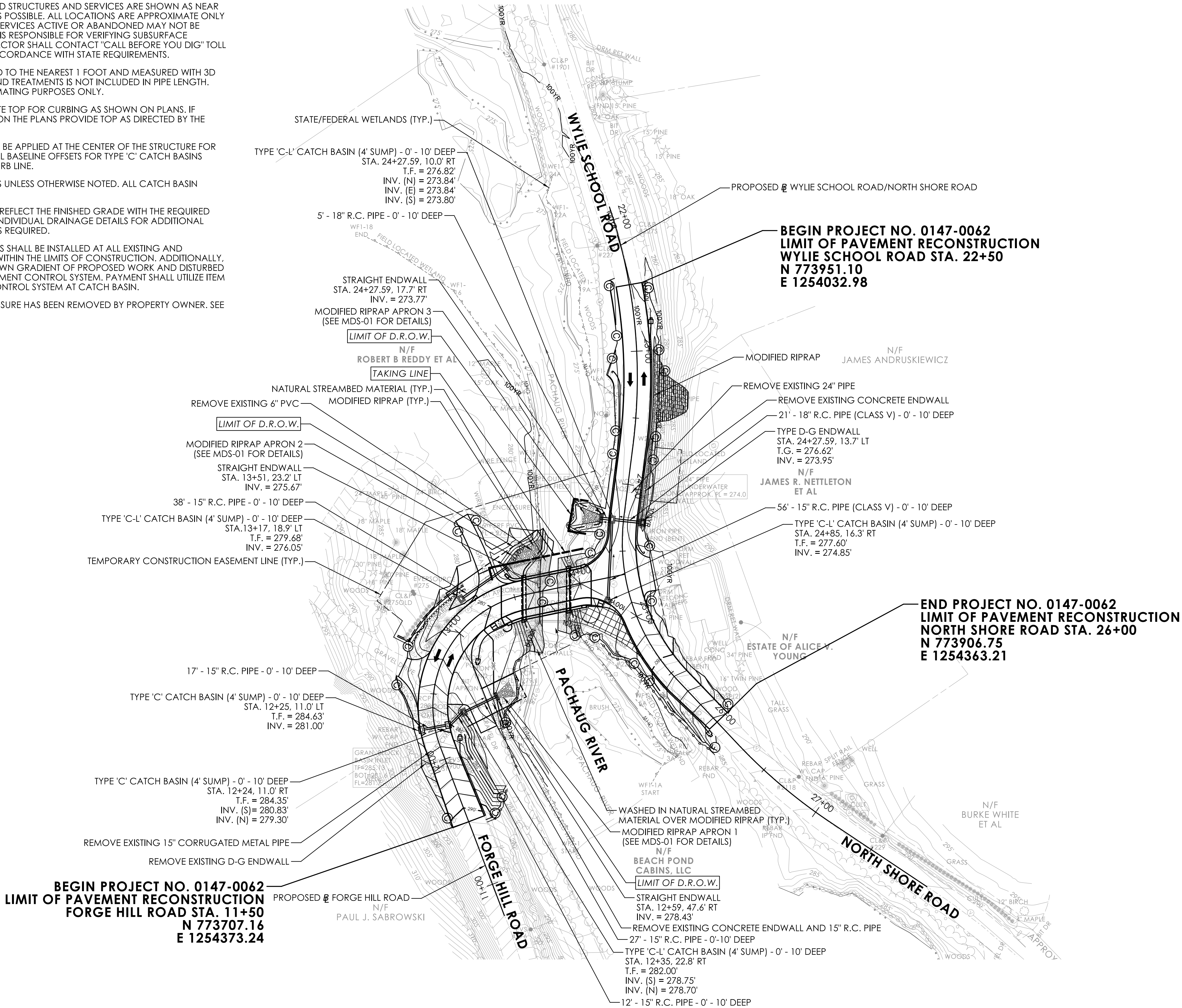
DRAWING NO.:
PRO-03

SHEET NO.:
03.07



NOTES

1. THE EXISTING UNDERGROUND STRUCTURES AND SERVICES ARE SHOWN AS NEAR THEIR CORRECT POSITION AS POSSIBLE. ALL LOCATIONS ARE APPROXIMATE ONLY AND ALL STRUCTURES AND SERVICES ACTIVE OR ABANDONED MAY NOT BE SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SUBSURFACE INFORMATION. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" TOLL FREE (1-800-922-4455) IN ACCORDANCE WITH STATE REQUIREMENTS.
2. PIPE LENGTHS ARE ROUNDED TO THE NEAREST 1 FOOT AND MEASURED WITH 3D LENGTH. THE LENGTH FOR END TREATMENTS IS NOT INCLUDED IN PIPE LENGTH. PIPE LENGTHS ARE FOR ESTIMATING PURPOSES ONLY.
3. USE APPROPRIATE CONCRETE TOP FOR CURBING AS SHOWN ON PLANS. IF CURBING IS NOT SPECIFIED ON THE PLANS PROVIDE TOP AS DIRECTED BY THE ENGINEER.
4. ALL BASELINE OFFSETS SHALL BE APPLIED AT THE CENTER OF THE STRUCTURE FOR TYPE 'C-L' CATCH BASINS. ALL BASELINE OFFSETS FOR TYPE 'C' CATCH BASINS SHALL BE APPLIED AT THE CURB LINE.
5. USE STANDARD CTDOT ITEMS UNLESS OTHERWISE NOTED. ALL CATCH BASIN GRATES SHALL BE TYPE "A".
6. TOP OF FRAME ELEVATIONS REFLECT THE FINISHED GRADE WITH THE REQUIRED DEPRESSION. REFER TO THE INDIVIDUAL DRAINAGE DETAILS FOR ADDITIONAL ELEVATION ADJUSTMENTS AS REQUIRED.
7. SEDIMENT CONTROL SYSTEMS SHALL BE INSTALLED AT ALL EXISTING AND PROPOSED CATCH BASINS WITHIN THE LIMITS OF CONSTRUCTION. ADDITIONALLY, EXISTING CATCH BASINS DOWN GRADIENT OF PROPOSED WORK AND DISTURBED AREA SHALL RECIEVE A SEDIMENT CONTROL SYSTEM. PAYMENT SHALL UTILIZE ITEM NO. 0219011A SEDIMENT CONTROL SYSTEM AT CATCH BASIN.
8. WIRE FENCE ANIMAL ENCLOSURE HAS BEEN REMOVED BY PROPERTY OWNER. SEE PLN-01 FOR DETAILS.



LEGEND

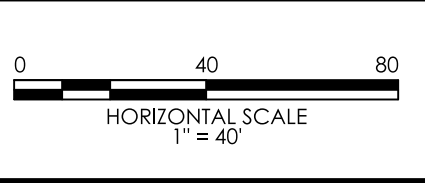
- F-E-C- APPROXIMATE SLOPE LIMITS
- OHW ORDINARY HIGH WATER
- 100YR — FEMA 100-YEAR FLOOD (CALCULATED)
- - - - STATE/FEDERAL WETLANDS
- ... EDGE OF WATERCOURSE
- - - - SEDIMENTATION CONTROL SYSTEM
- ➔ TRAFFIC FLOW
- [Pattern] REINFORCED ARMORED SLOPE
- [Pattern] MODIFIED RIPRAP
- [Pattern] LIMITS OF PAVEMENT REMOVAL
- [Pattern] NATURAL STREAM BED MATERIAL
- [Pattern] NATURAL STREAM BED MATERIAL ON RIPRAP (VOIDS IN RIPRAP WASHED IN WITH STREAMBED MATERIAL)
- [Pattern] WASHED-IN NATURAL STREAMBED MATERIAL

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DESIGNER/DRAFTER: GL/DL

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REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD
OVER PACHAUG RIVER

TOWN(S):

VOLUNTOWN

DRAWING TITLE:

DRAINAGE PLAN

PROJECT NO.:

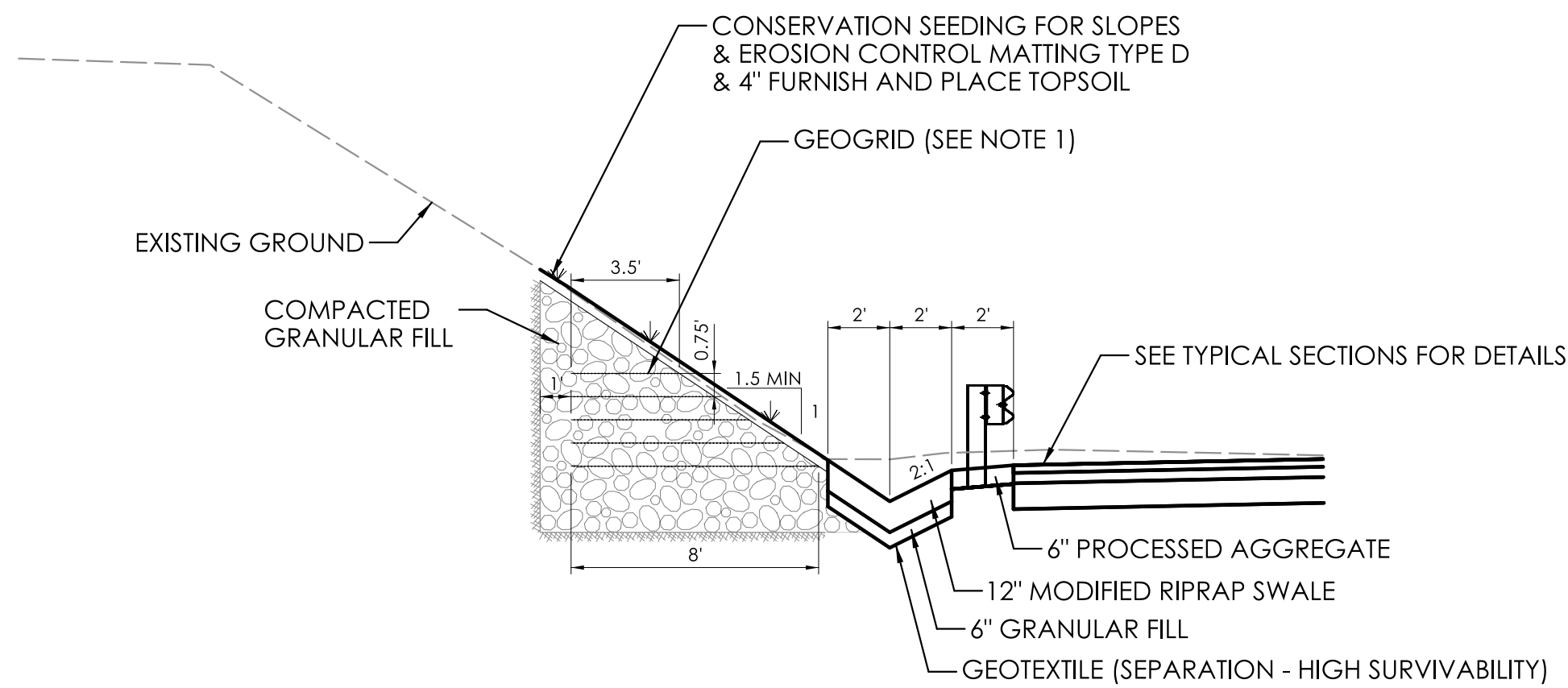
0147-0062

DRAWING NO.:

DRN-01

SHEET NO.:

03.08

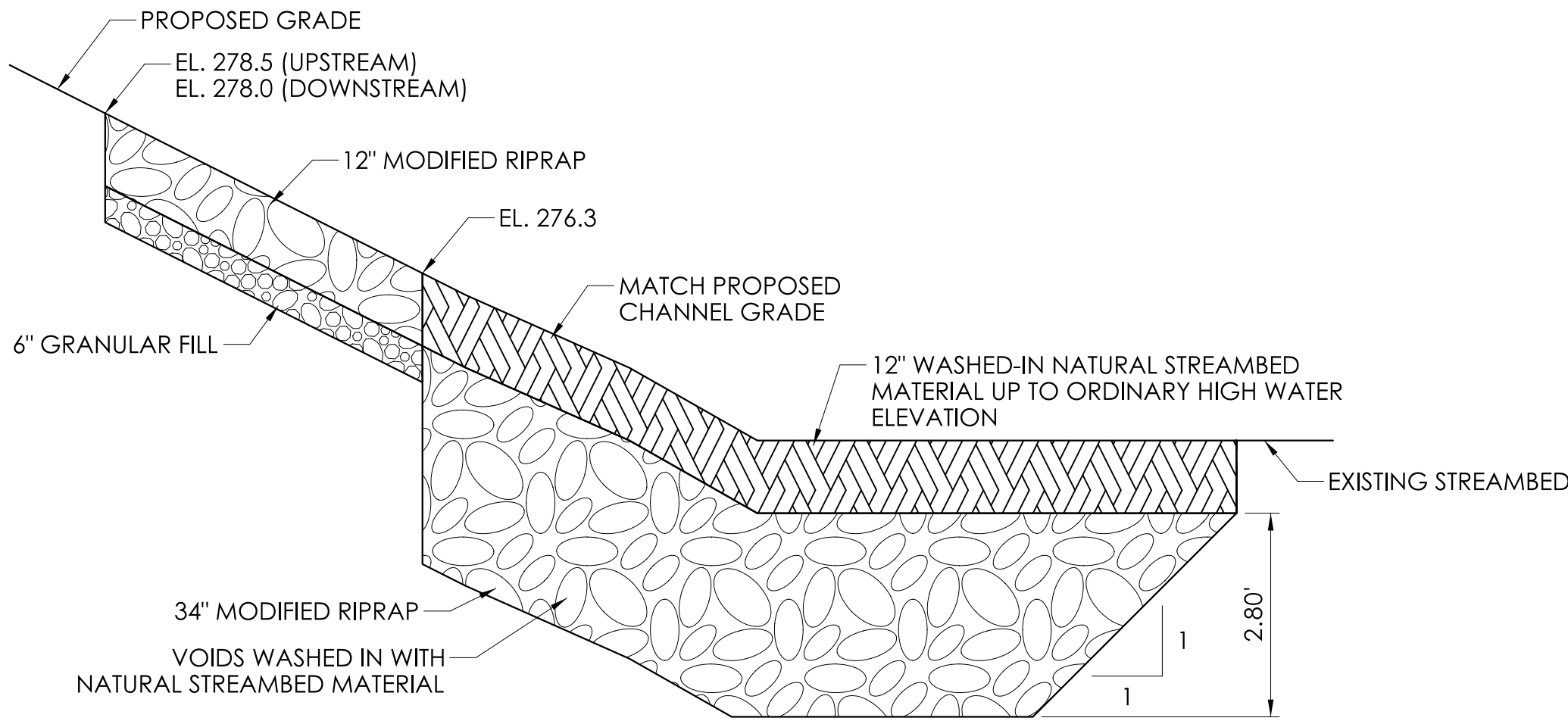


REINFORCED SOIL SLOPE DETAIL

NOT TO SCALE
STA. 23+08 TO STA. 23+53 L

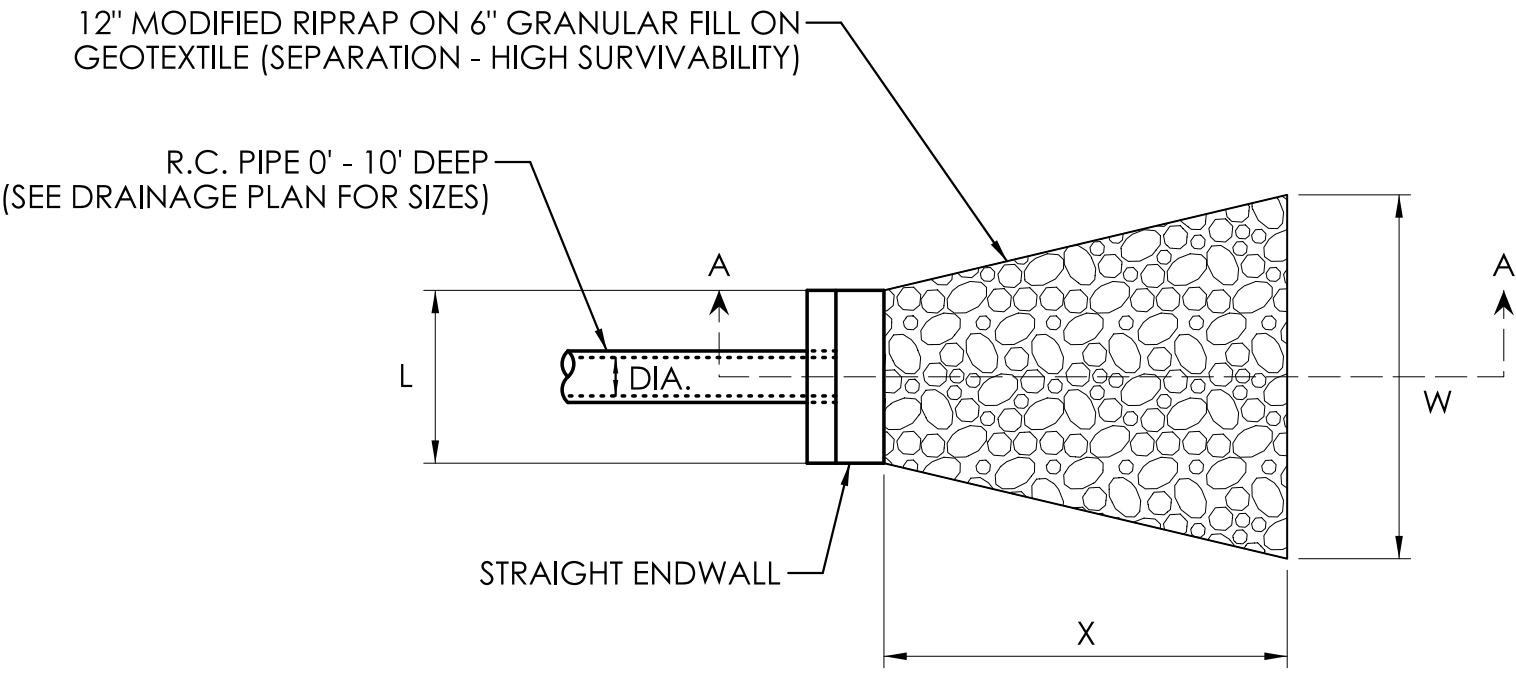
NOTES

1. ALL GEOGRID LAYERS SHALL BE INSTALLED AT A CONSTANT ELEVATION.
2. SEE HIGHWAY PLAN FOR LIMITS OF REINFORCED SOIL SLOPE.

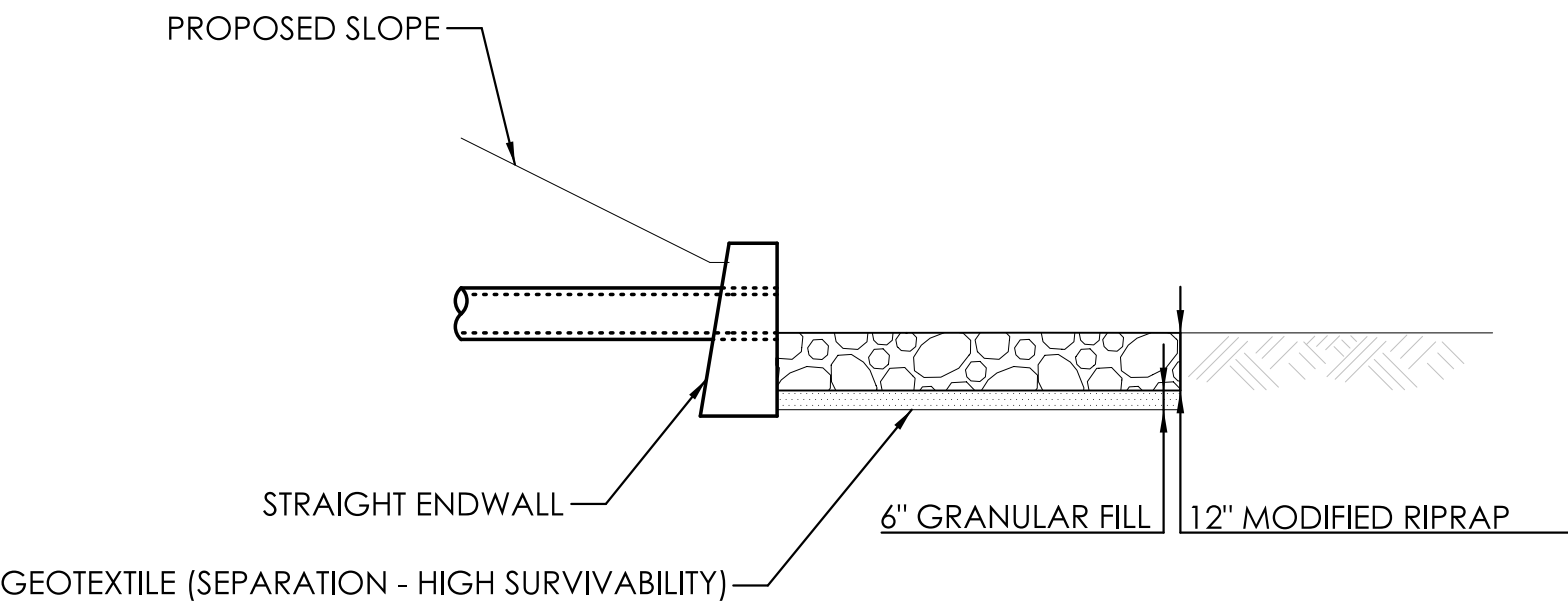


MODIFIED RIPRAP DETAIL

NOT TO SCALE



ENDWALL PLAN VIEW



ENDWALL SECTION A-A

RIPRAP APRONS						
APRON	LOCATION	APRON TYPE	DIA.	L	W	X
1	STA. 12+56, 45.7' RT	TYPE A	15"	3.75'	10.75'	10.00'
2	STA. 13+51, 23.2' LT	TYPE A	15"	3.75'	10.75'	10.00'
3	STA. 24+27, 17.7' RT	TYPE A	18"	4.50'	12.00'	12.90'

RIPRAP SPLASH PAD DETAILS

LEGEND

- DIA. = INSIDE PIPE DIAMETER
L = WIDTH OF RIPRAP APRON (MEASURED AT FACE OF ENDWALL)
W = WIDTH OF RIPRAP APRON
X = LENGTH OF RIPRAP APRON (MEASURED FROM FACE OF ENDWALL)

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NOT TO SCALE



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VOLUNTOWN

DRAWING TITLE:

MISCELLANEOUS DETAILS

PROJECT NO.:

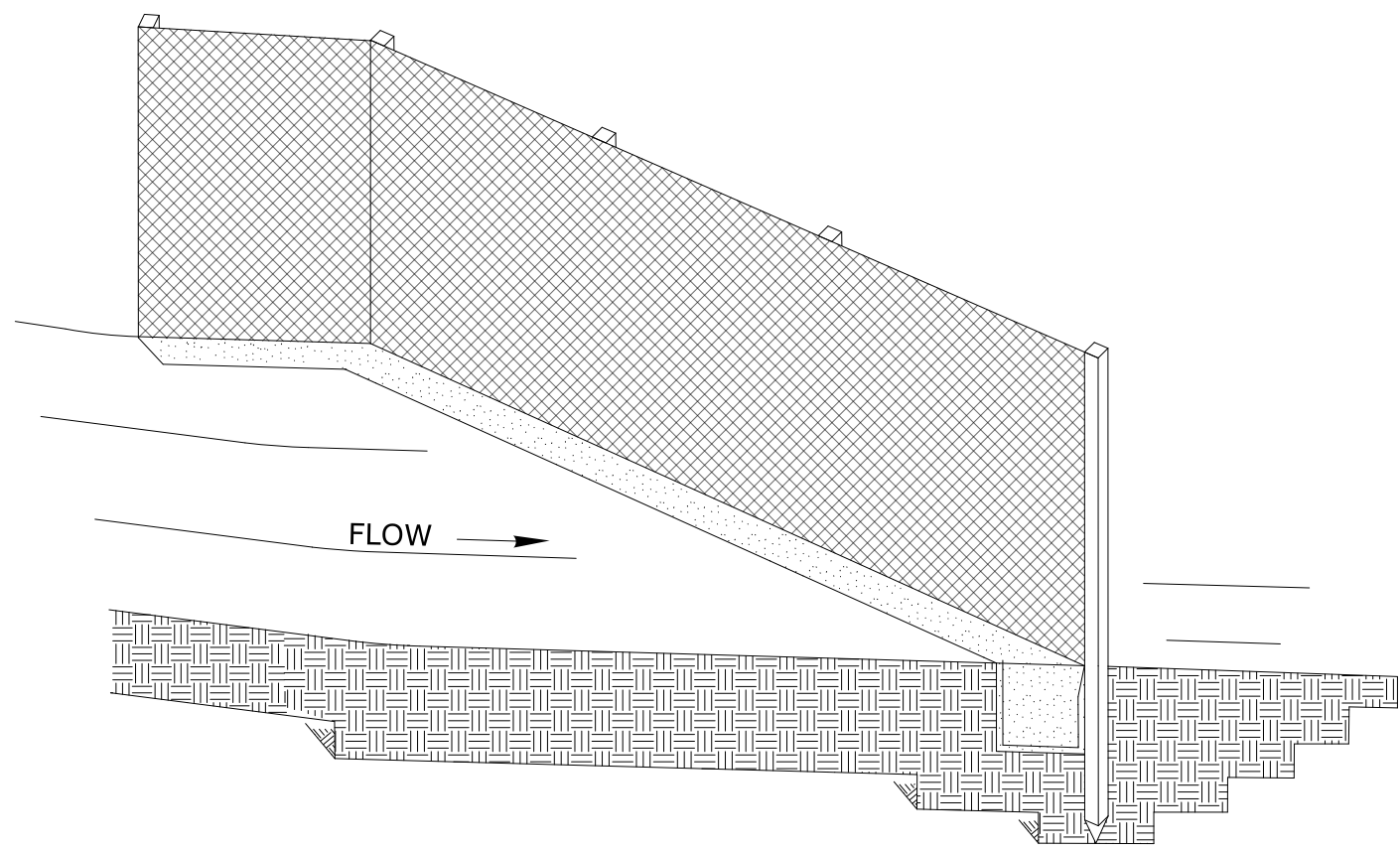
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DRAWING NO.:

MDS-01

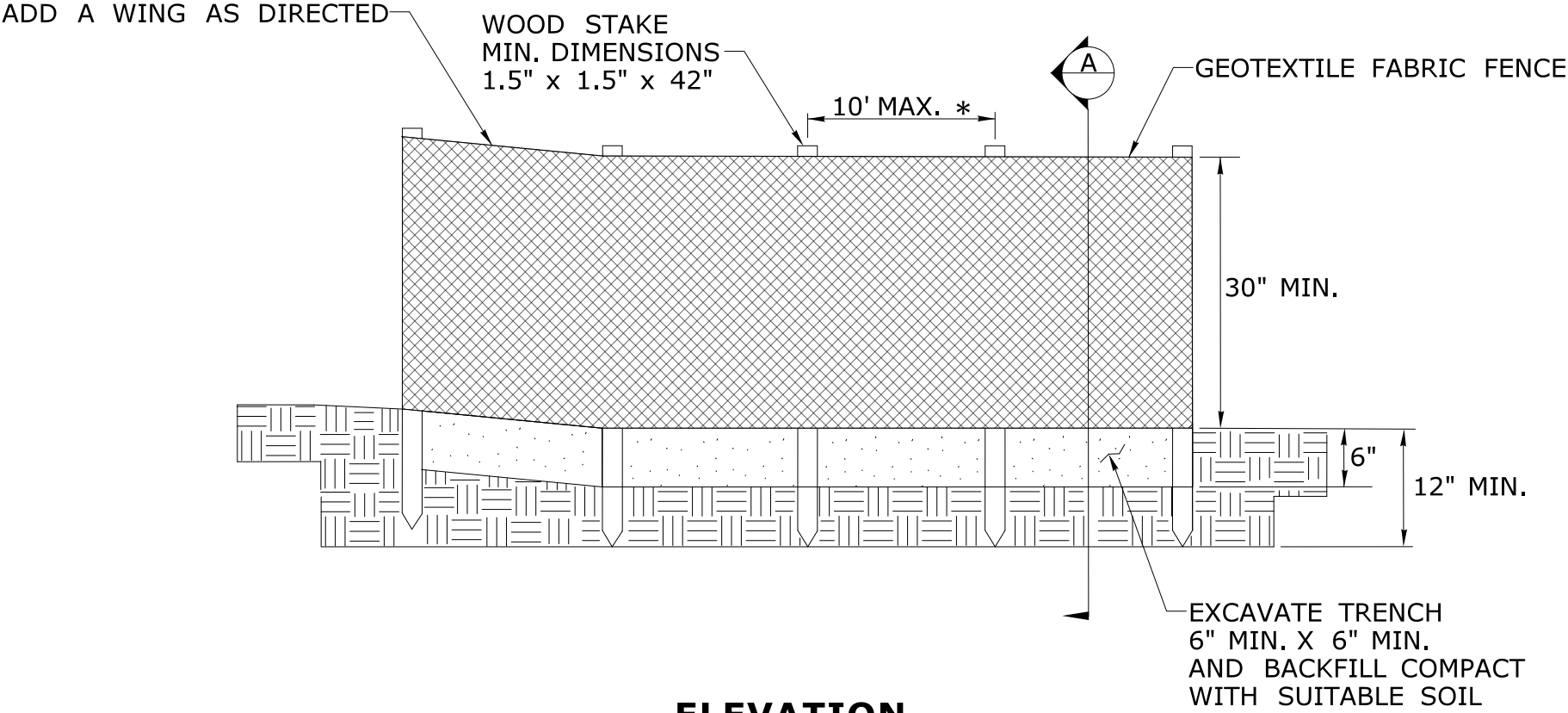
SHEET NO.:

03.09



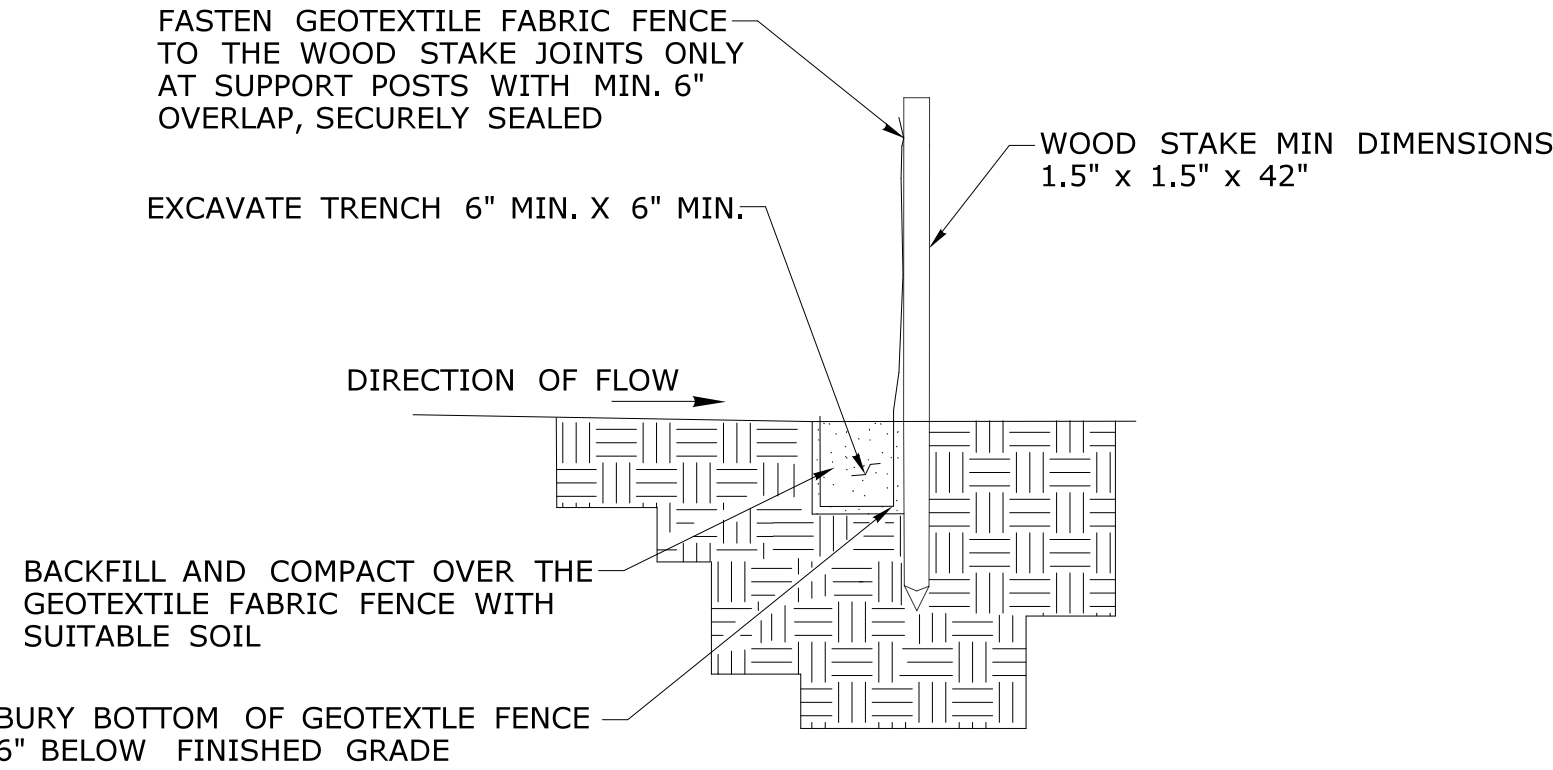
SEDIMENTATION CONTROL SYSTEM

INSTALL THE WING WHEN THE FENCE IS MORE THAN 4' FROM THE TOE OF SLOPE AND THE FENCE LINE GRADIENT IS 5% OR MORE

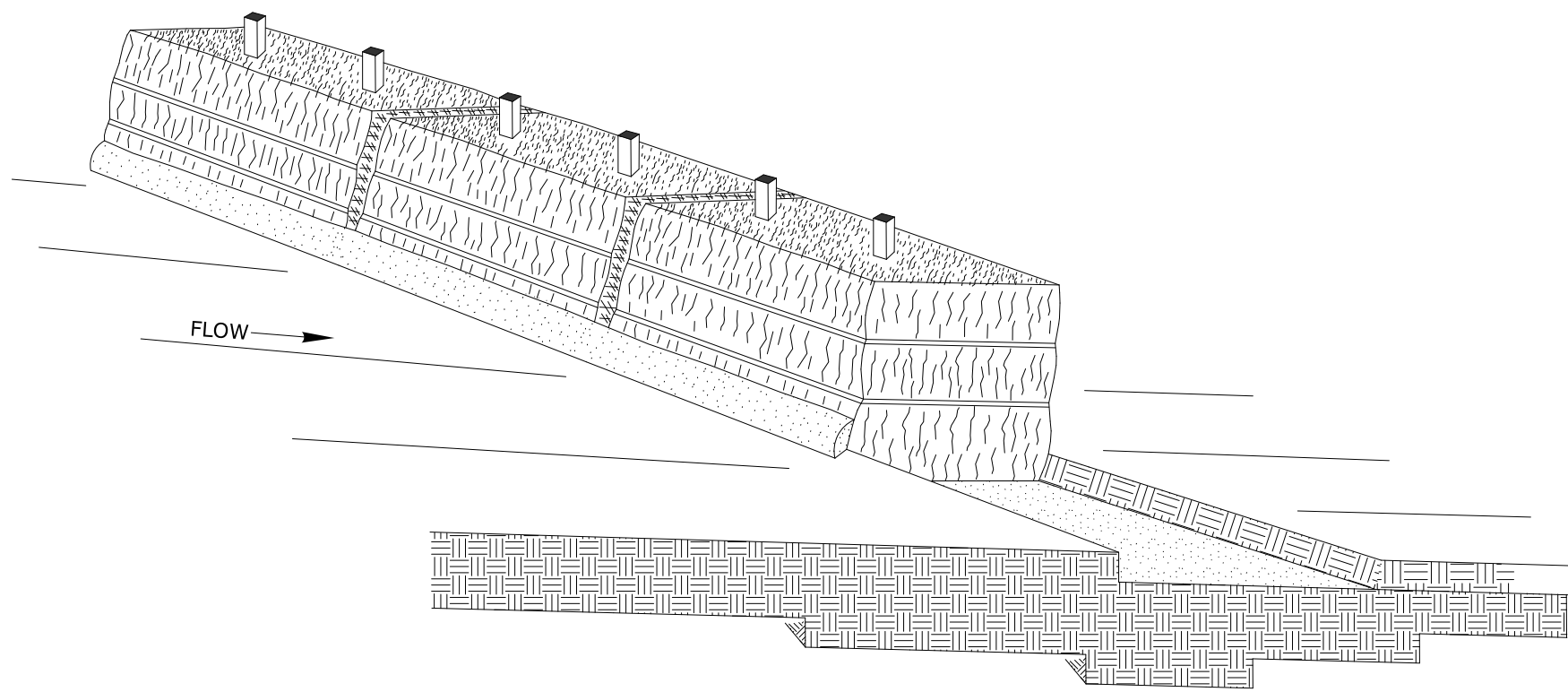


ELEVATION

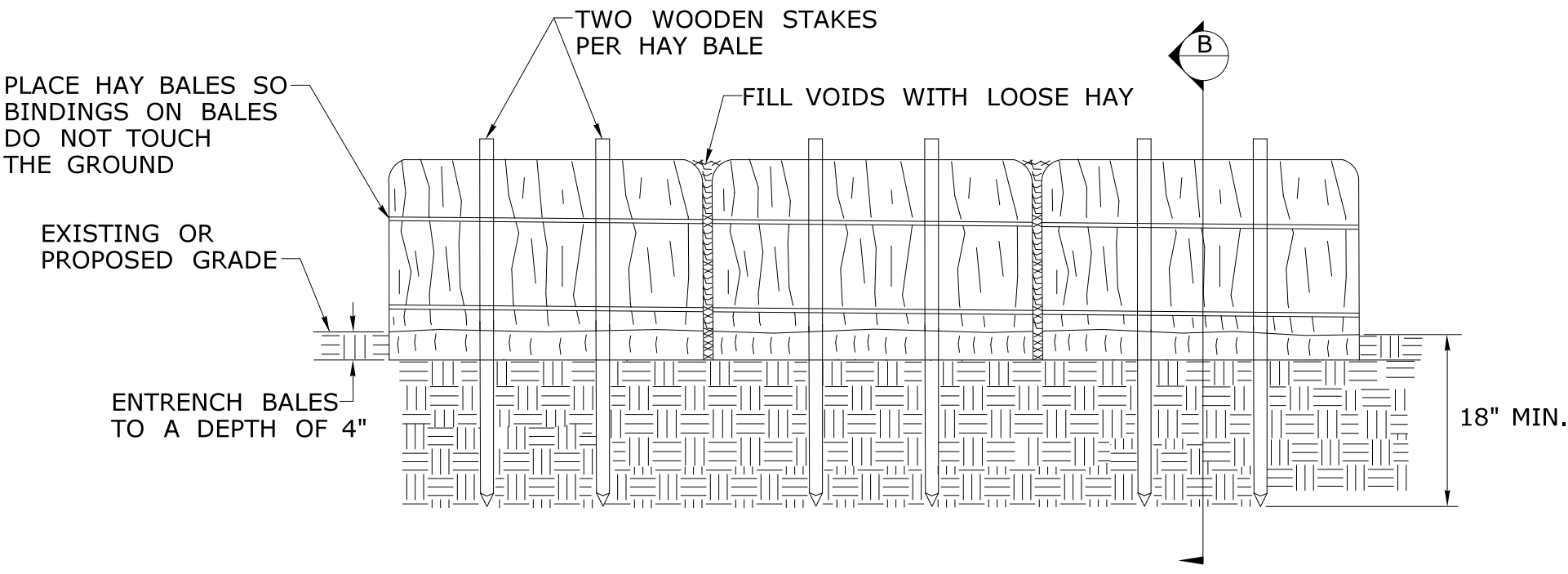
* FOR SLOPES STEEPER THAN 2:1 USE A 5' POST SPACING OR AS DIRECTED BY THE ENGINEER



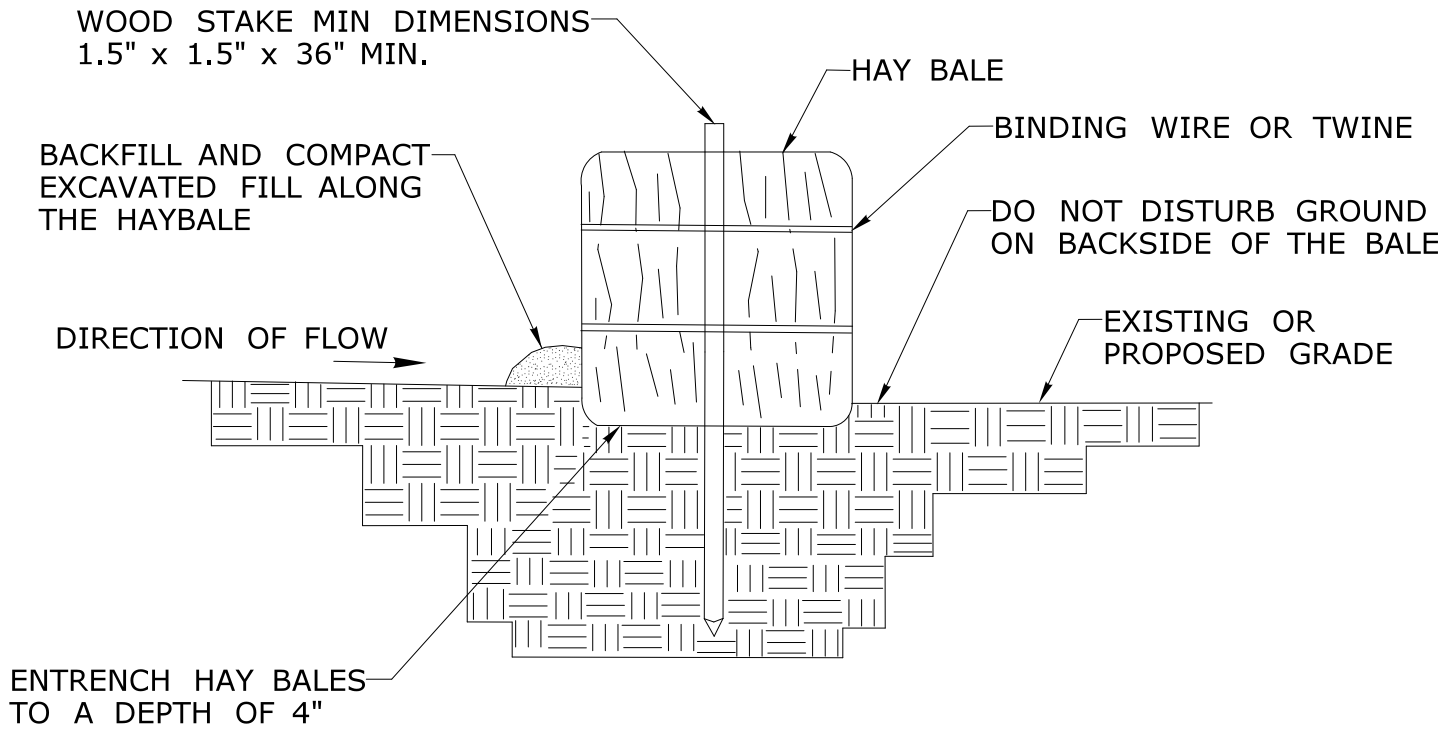
SECTION A



SEDIMENTATION CONTROL SYSTEM



ELEVATION



SECTION B

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

Alfred Benesch & Company
420 Western Avenue
2nd Floor
Greenwich, CT

DESIGNER/DRAFTER: DL

CHECKED BY: RA

NOT TO SCALE



CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:

REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD
OVER PACHAUG RIVER

TOWN(S):

VOLUNTOWN

DRAWING TITLE:

MISCELLANEOUS DETAILS

PROJECT NO.:

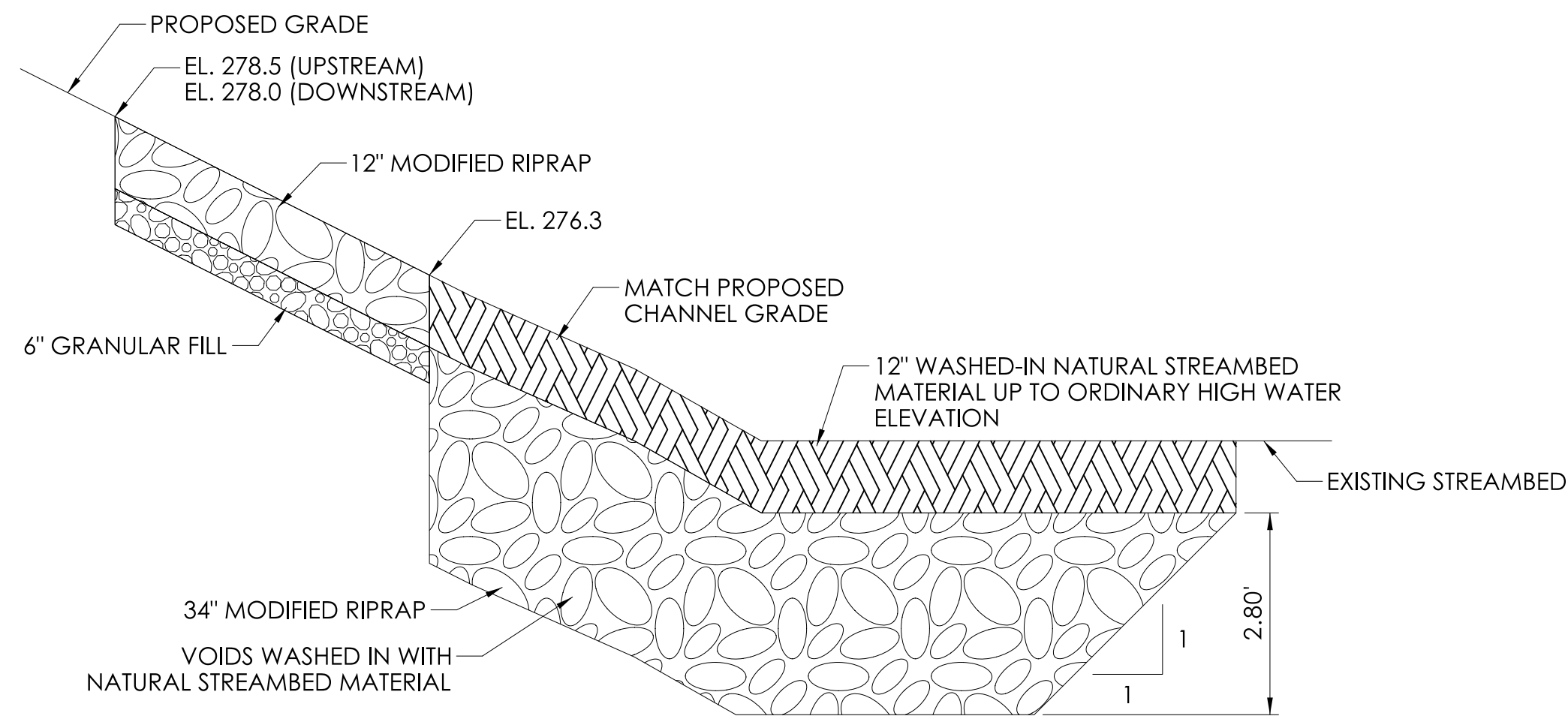
0147-0062

DRAWING NO.:

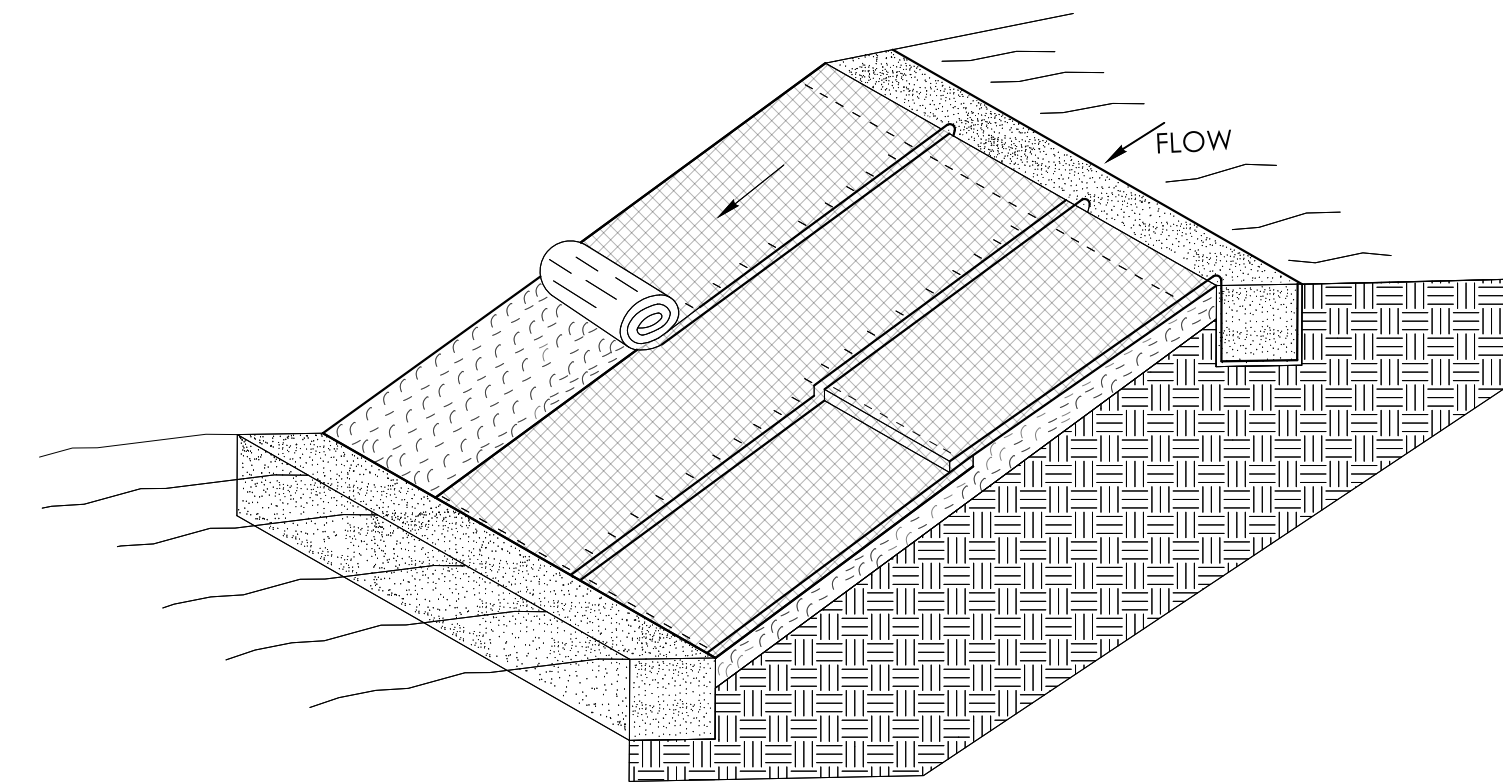
MDS-02

SHEET NO.:

03.10

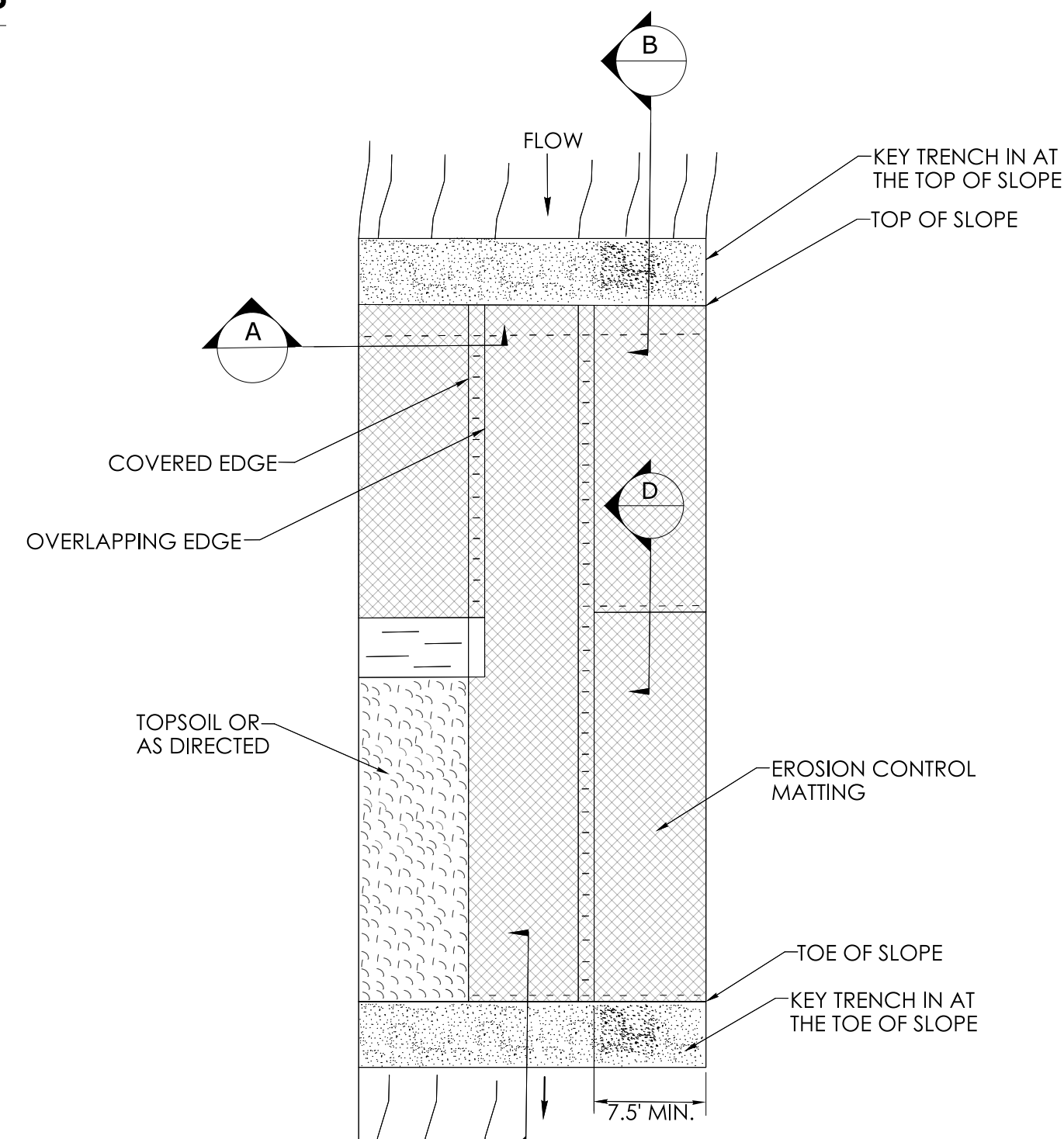


MODIFIED RIPRAP
SCALE: 1/2"=1'-0"

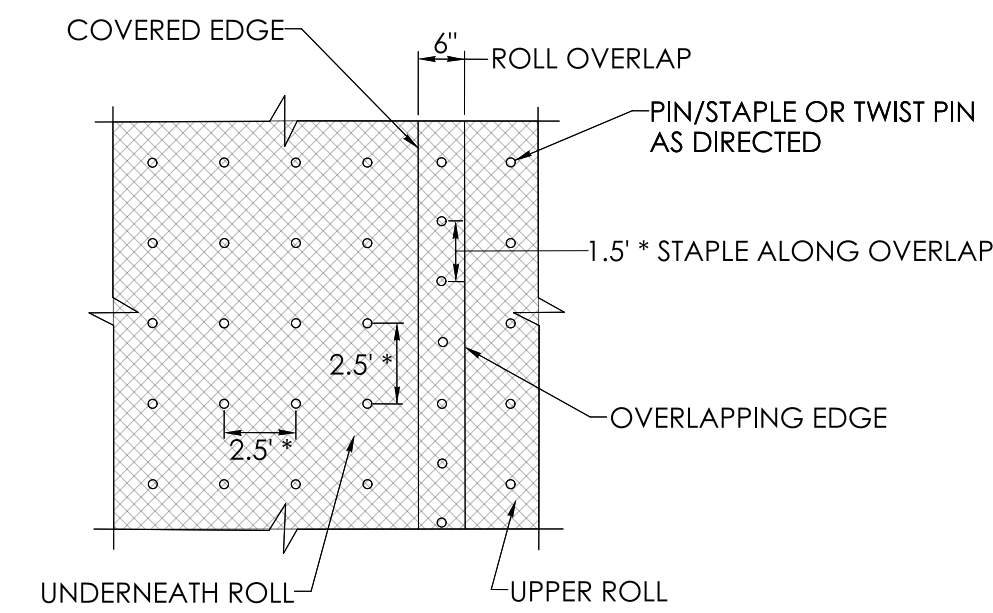


TYPICAL EROSION CONTROL MATTING

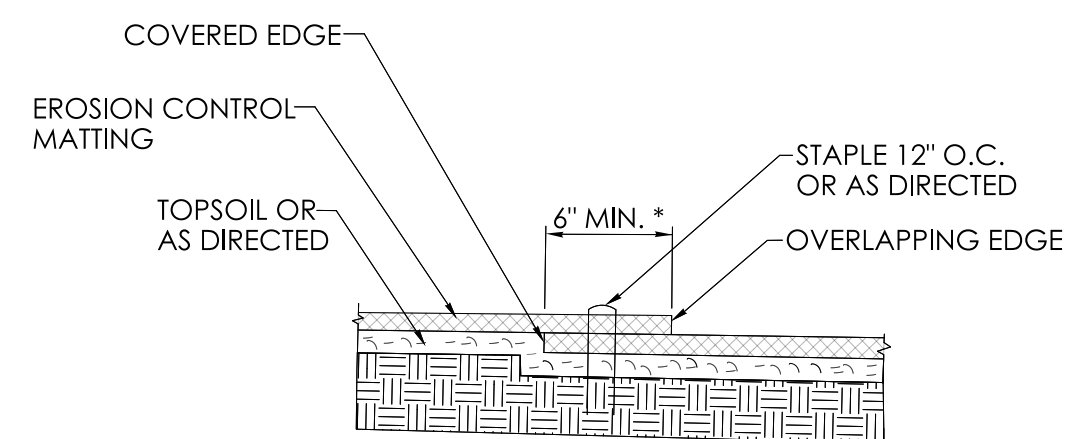
GENERAL NOTE:
1. USE THE MINIMUM DIMENSIONS SHOWN OR AS RECOMMENDED BY THE MANUFACTURER



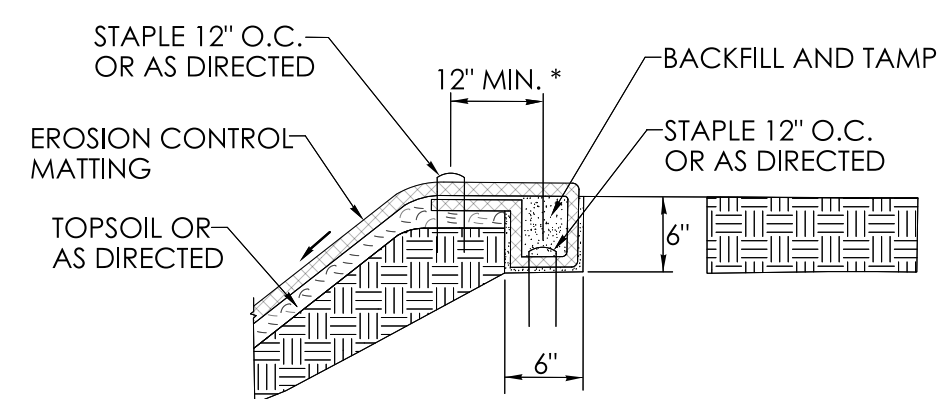
PLAN



STAPLE PATTERN
* SEE NOTE 1

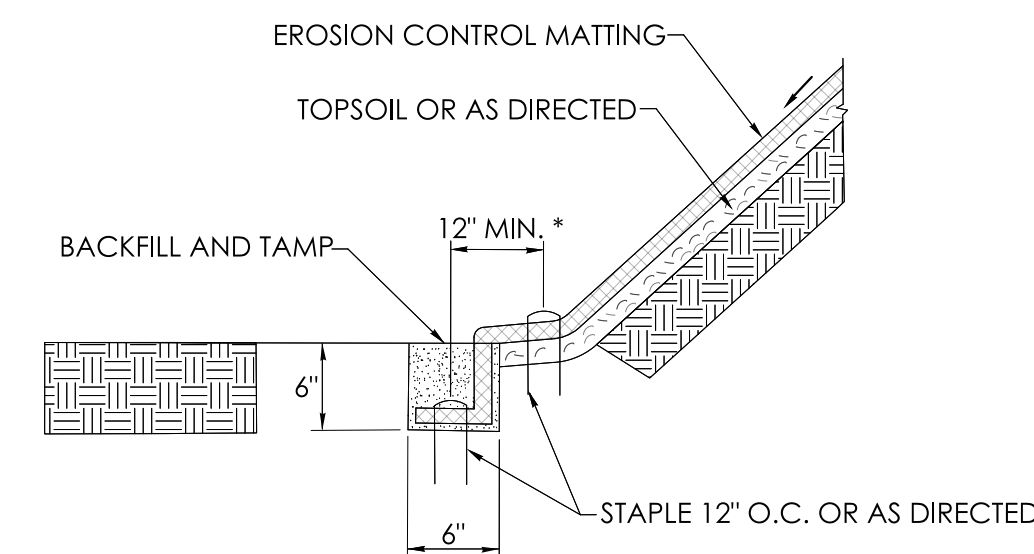


SECTION A



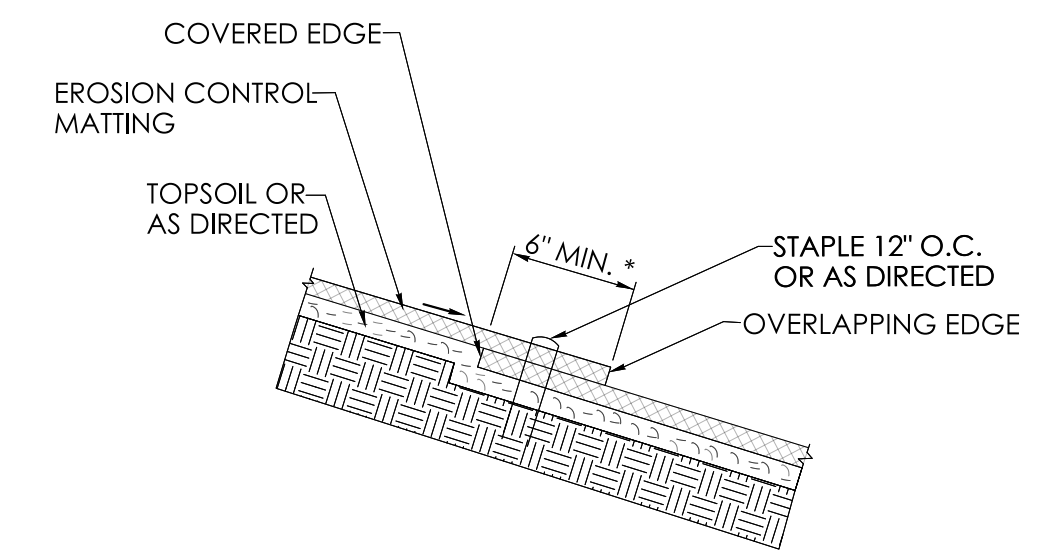
SECTION B

KEY IN TRENCH AT TOP OF SLOPE
* SEE NOTE 1



SECTION C

KEY TRENCH AT TOE OF SLOPE



SECTION D

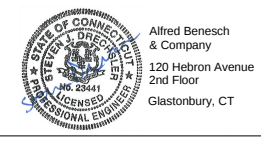
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SIGNATURE BLOCK:

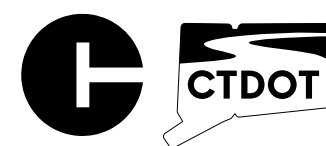
benesch

DESIGNER/DRAFTER: DW

CHECKED BY: RA



NOT TO SCALE



CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:

**REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD
OVER PACHAUG RIVER**

TOWN(S):

VOLUNTOWN

DRAWING TITLE:

MISCELLANEOUS DETAILS

PROJECT NO.:

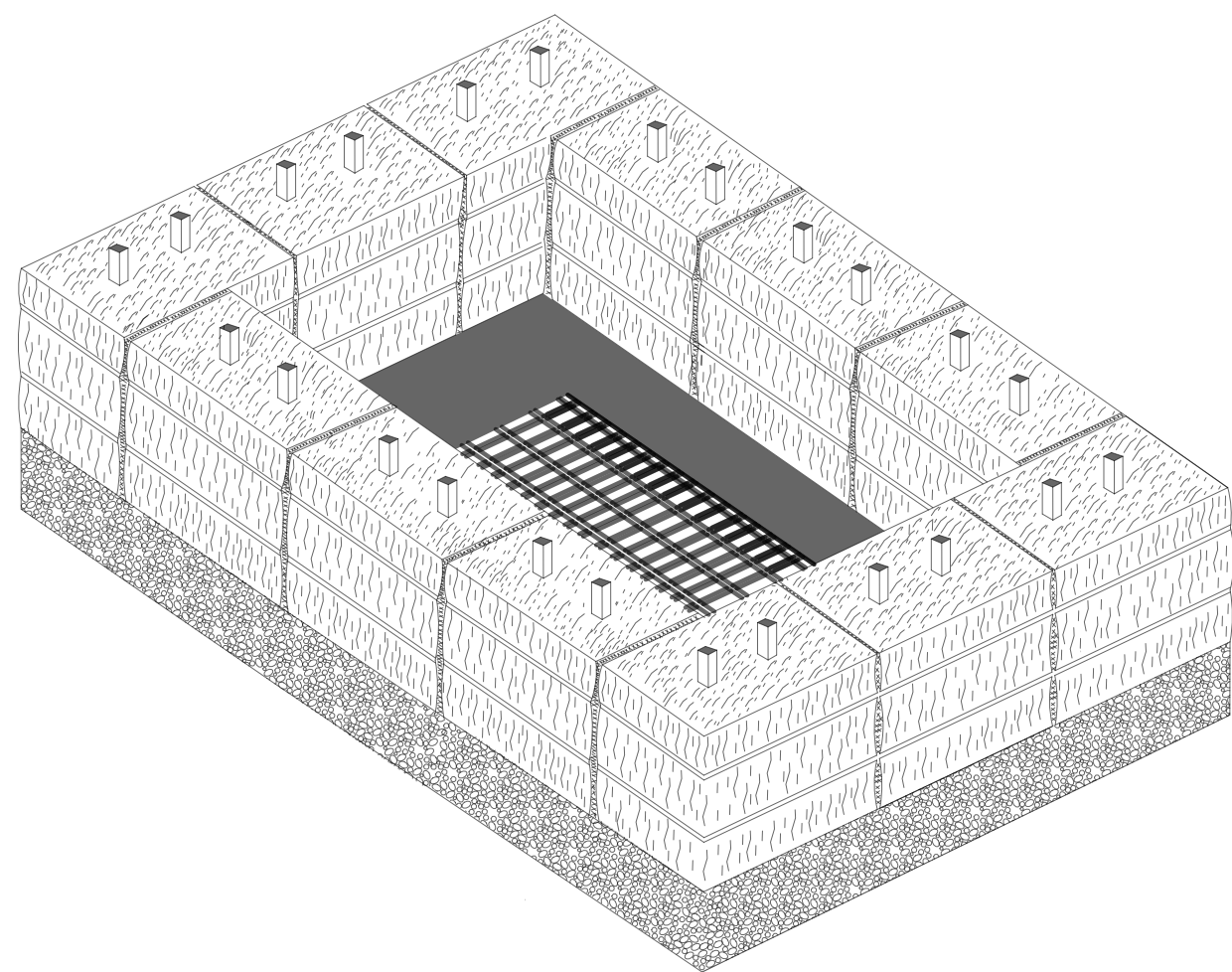
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DRAWING NO.:

MDS-03

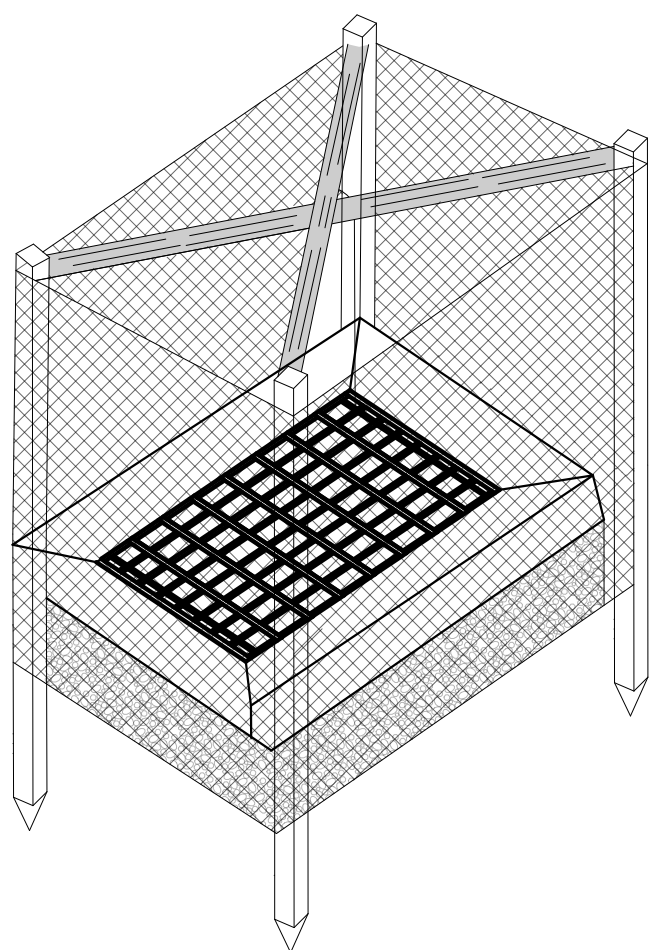
SHEET NO.:

03.11



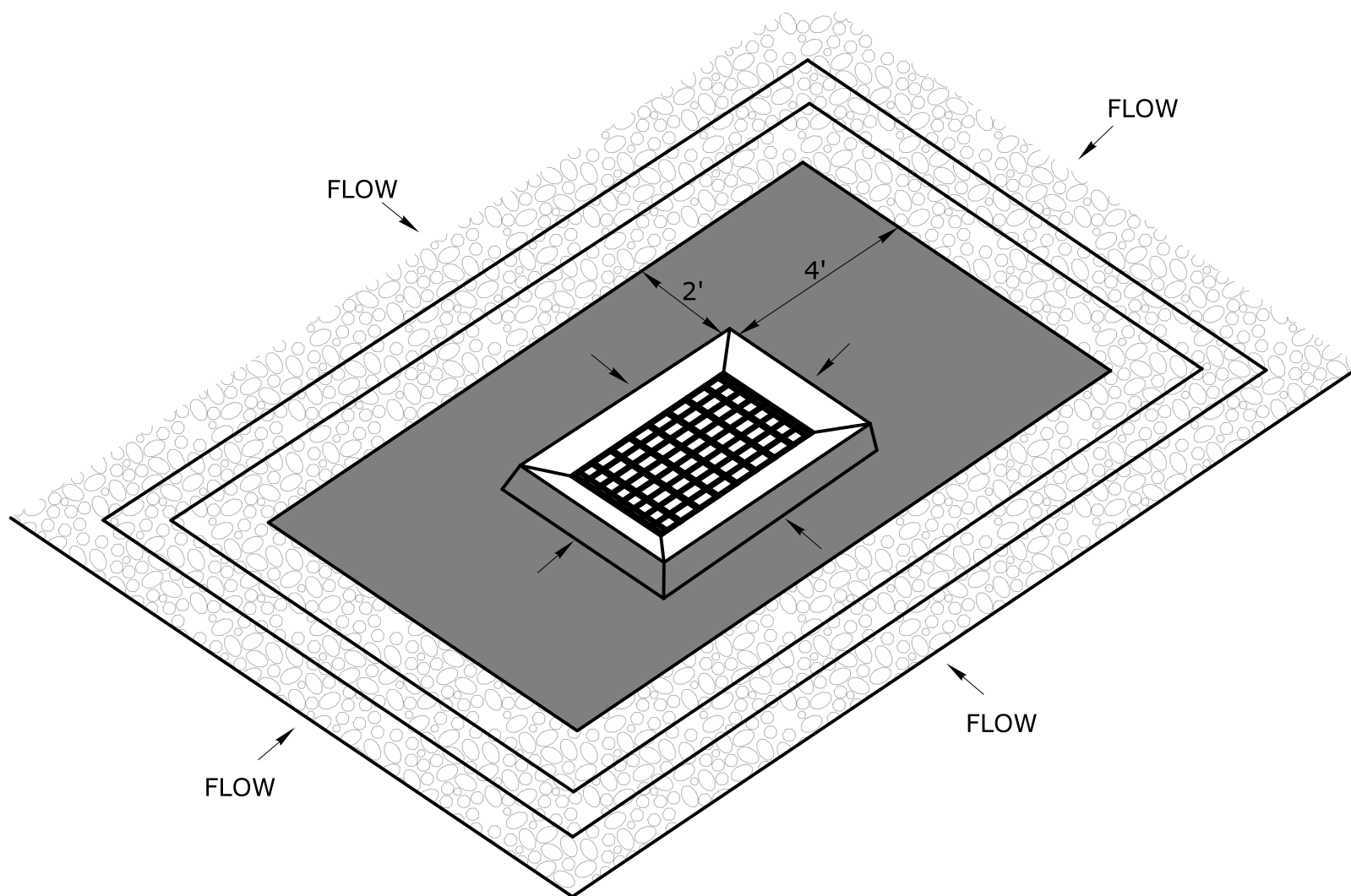
**HAY BALES
AT TYPE "C-L" CATCH BASIN**

NOTE: THIS ITEM WILL BE MEASURED BY LINEAR
FEET OF SEDIMENTATION CONTROL SYSTEM

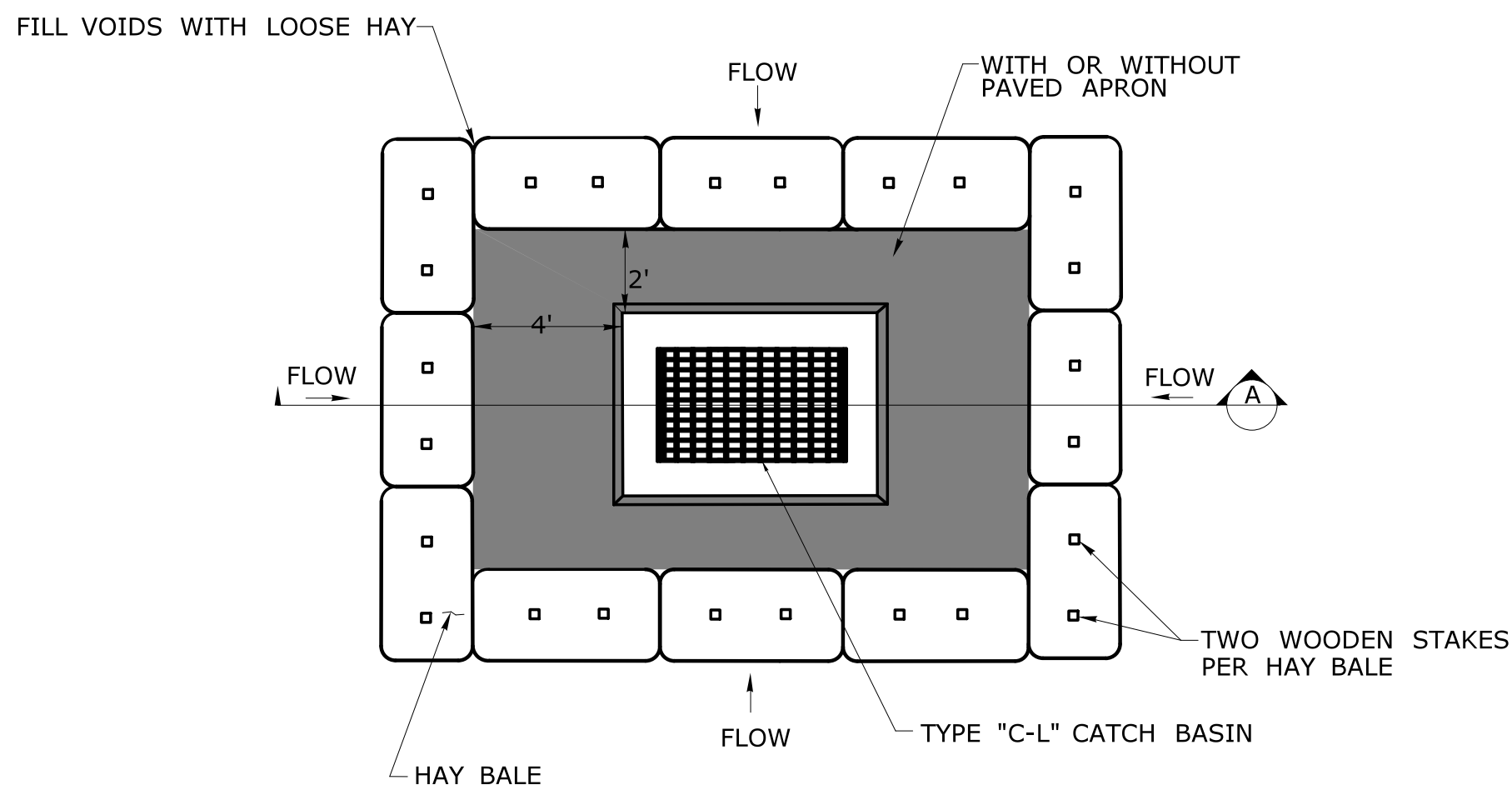


**GEOTEXTILE FABRIC FENCE
AT TYPE "C-L" CATCH BASIN**

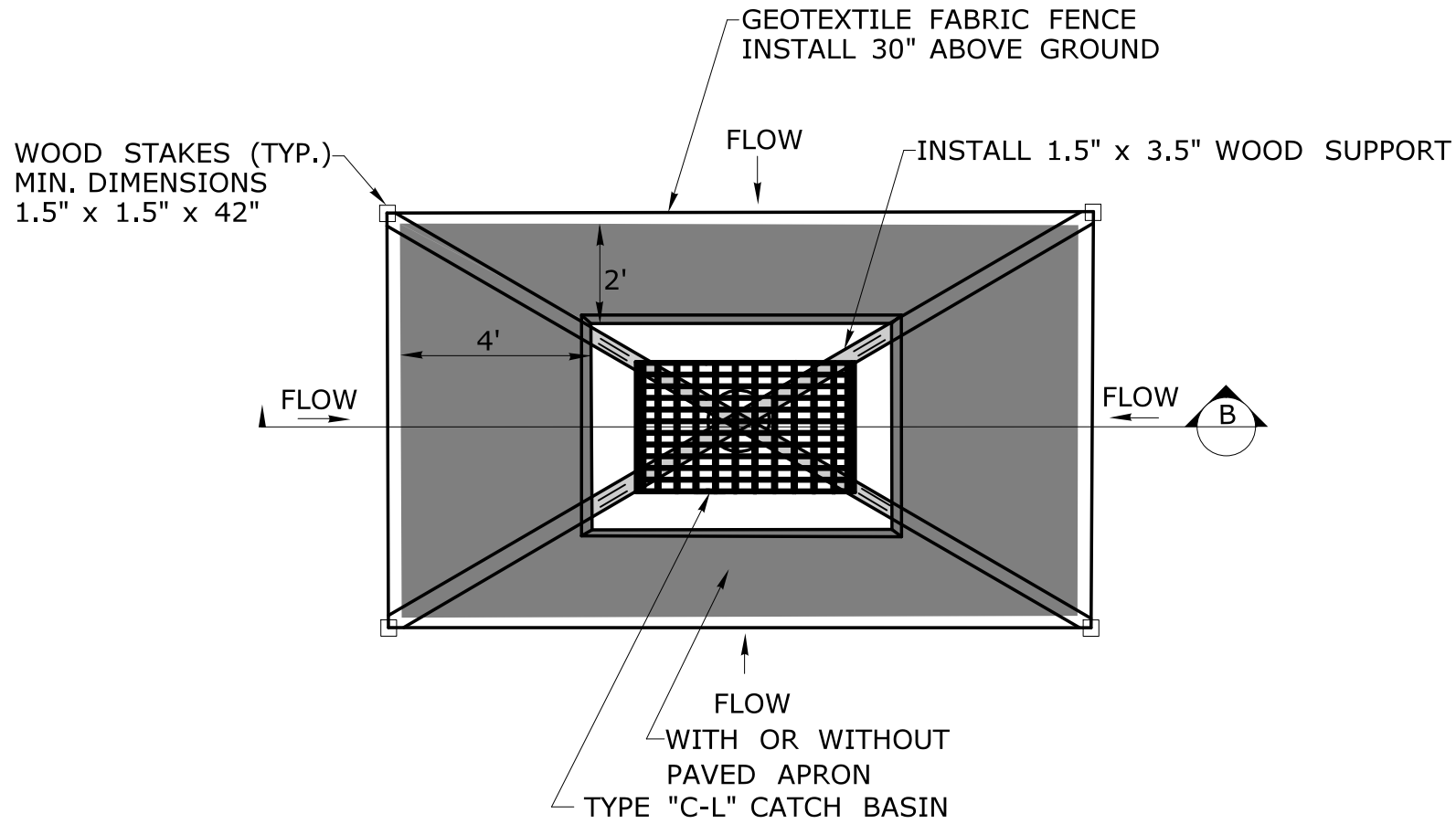
NOTE: THIS ITEM WILL BE MEASURED BY LINEAR
FEET OF SEDIMENTATION CONTROL SYSTEM



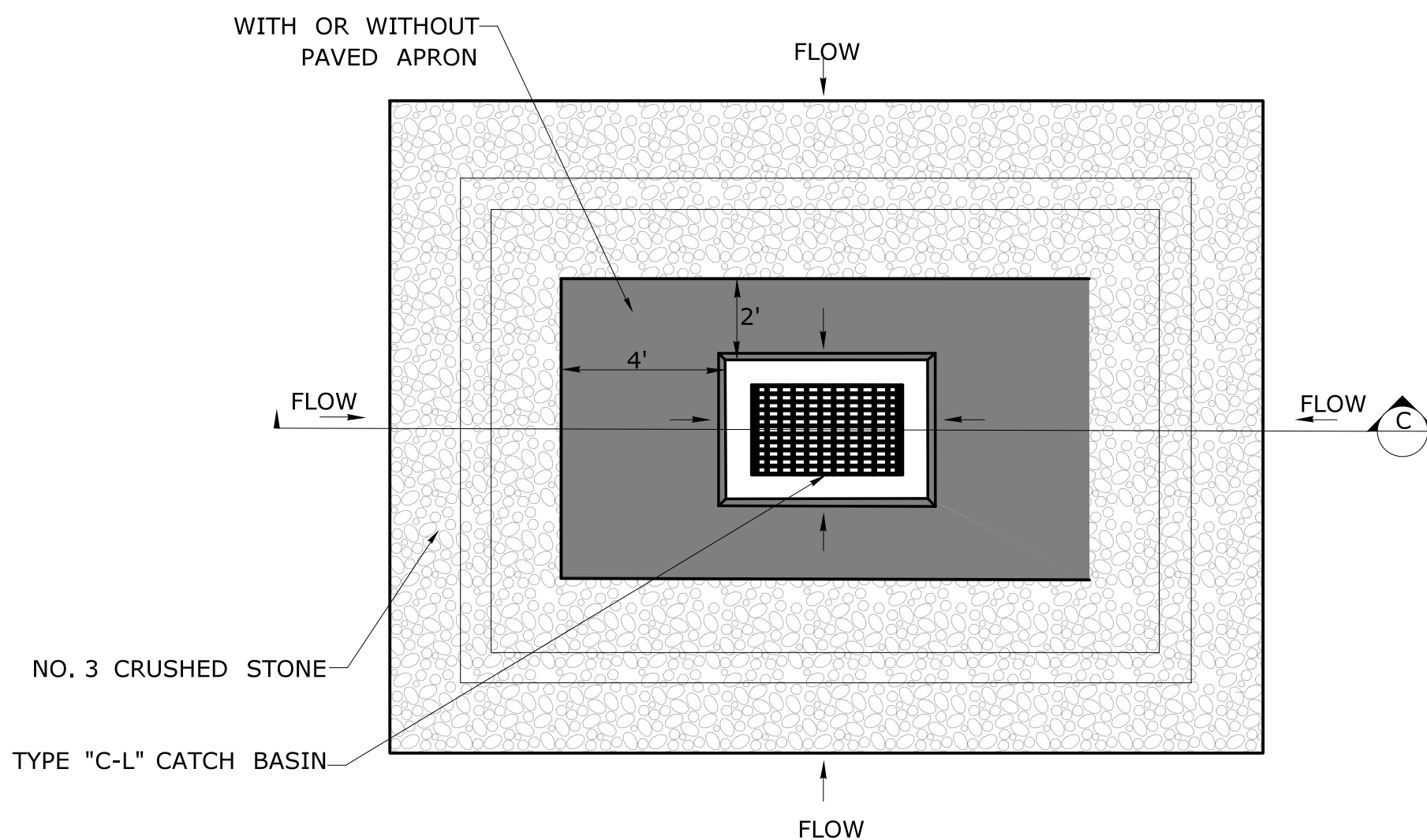
STONE CHECK DAM AT TYPE "C-L" CATCH BASIN



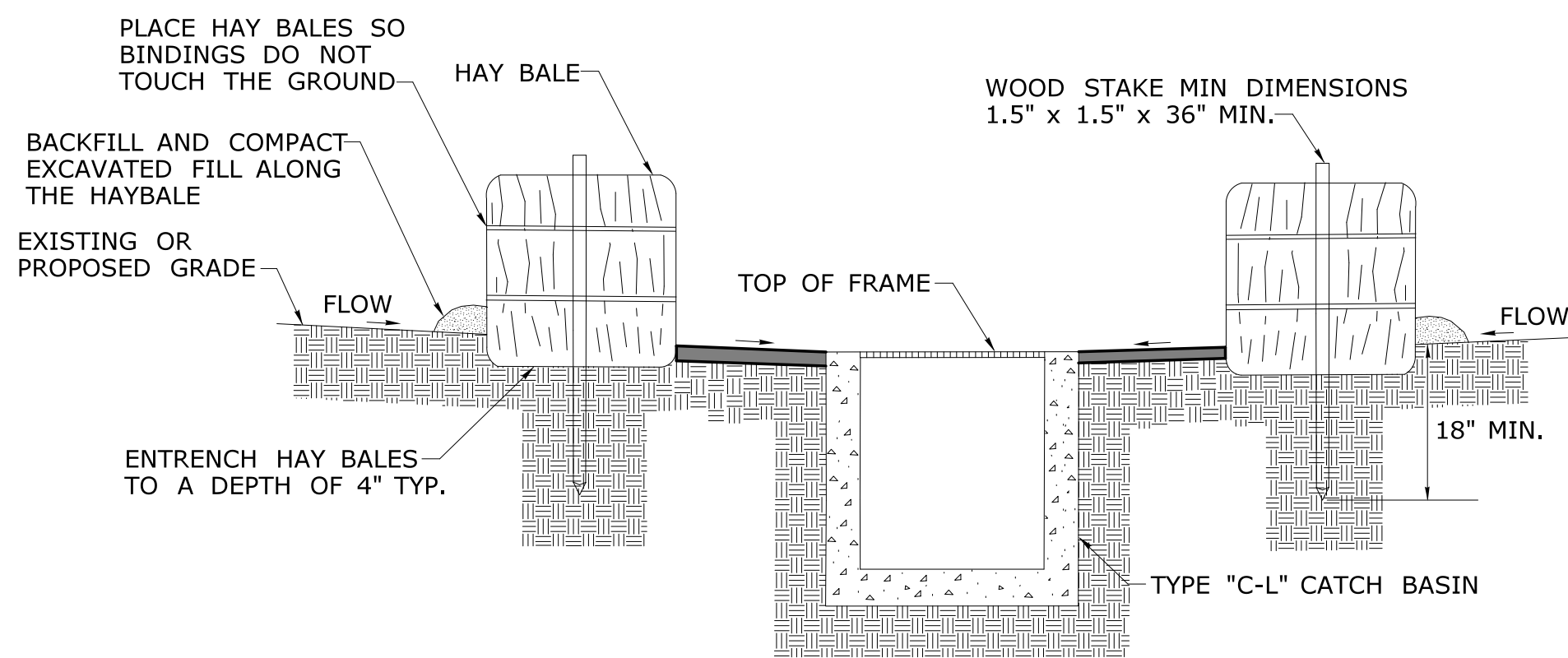
**PLAN
THIS DETAIL APPLIES TO
OFF ROAD LOCATIONS**



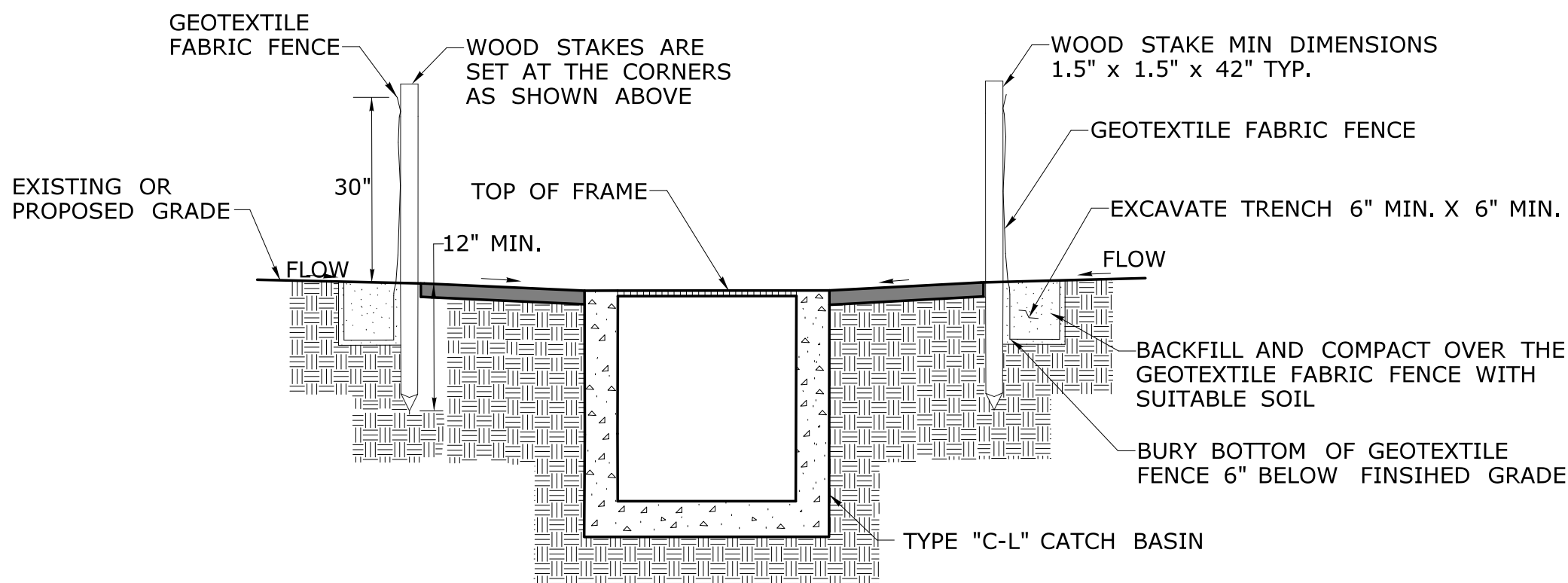
**PLAN
THIS DETAIL APPLIES TO
OFF ROAD LOCATIONS**



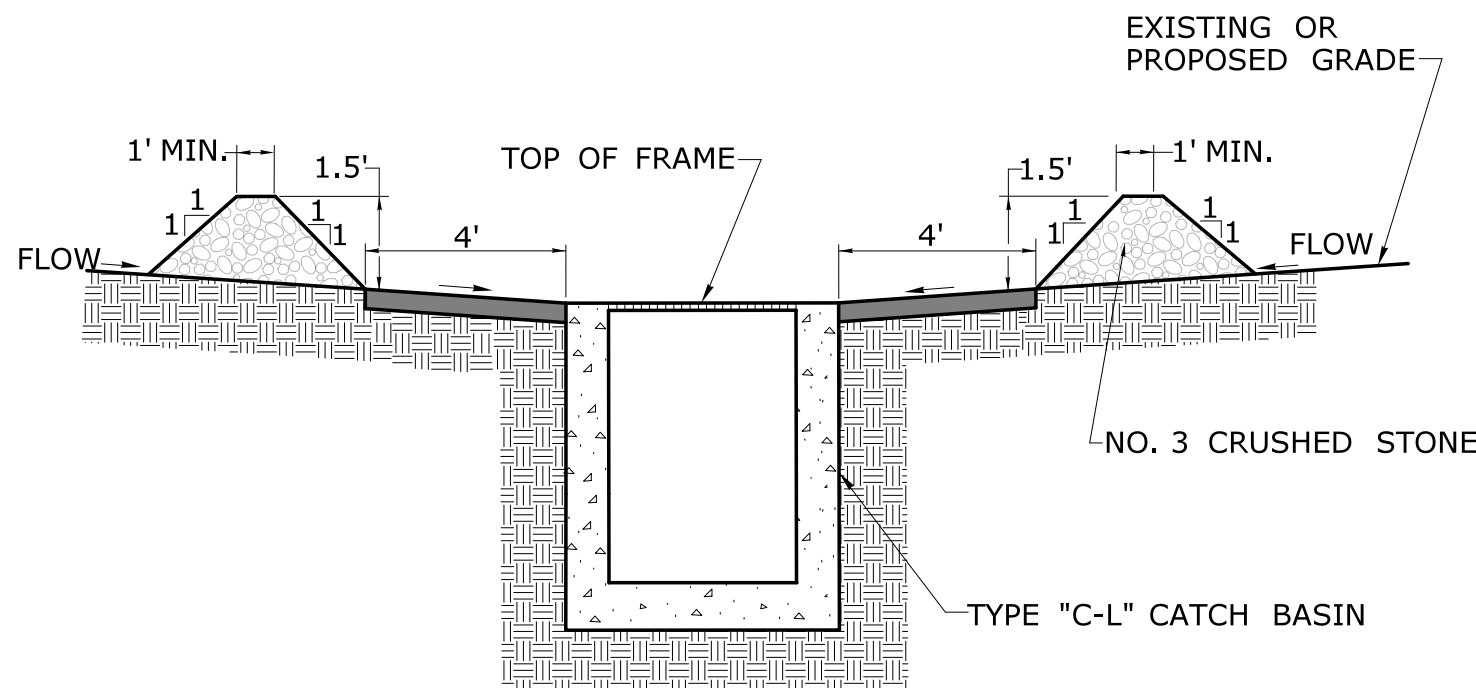
**PLAN
THIS DETAIL APPLIES TO
OFF ROAD LOCATIONS**



SECTION A



SECTION B



SECTION C

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:	
DESIGNER/DRAFTER: DW	CHECKED BY: RA



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**CONNECTICUT
DEPARTMENT OF
TRANSPORTATION**

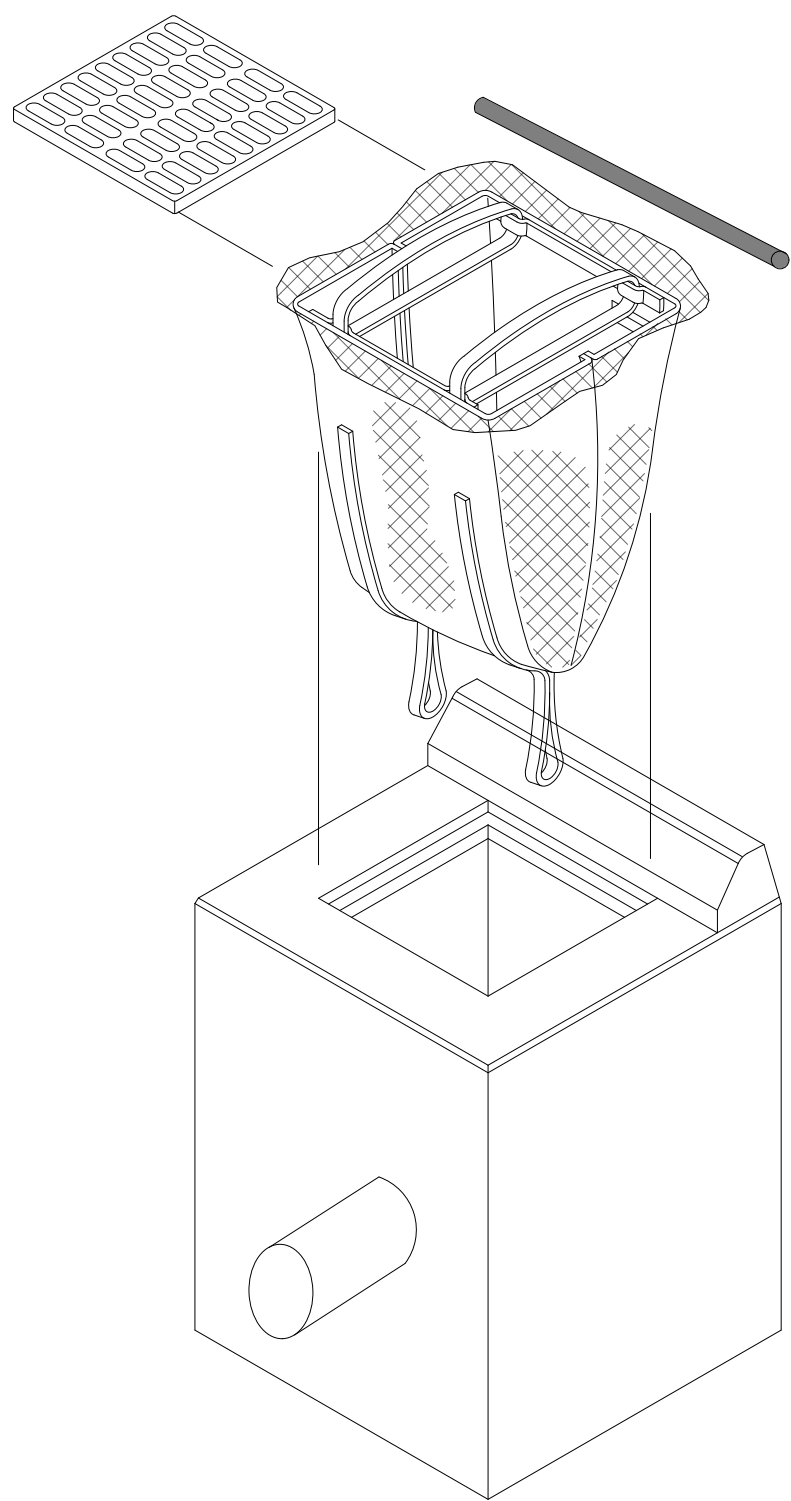
PROJECT TITLE:
**REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD
OVER PACHAUG RIVER**

TOWN(S):
VOLUNTOWN

DRAWING TITLE:
MISCELLANEOUS DETAILS

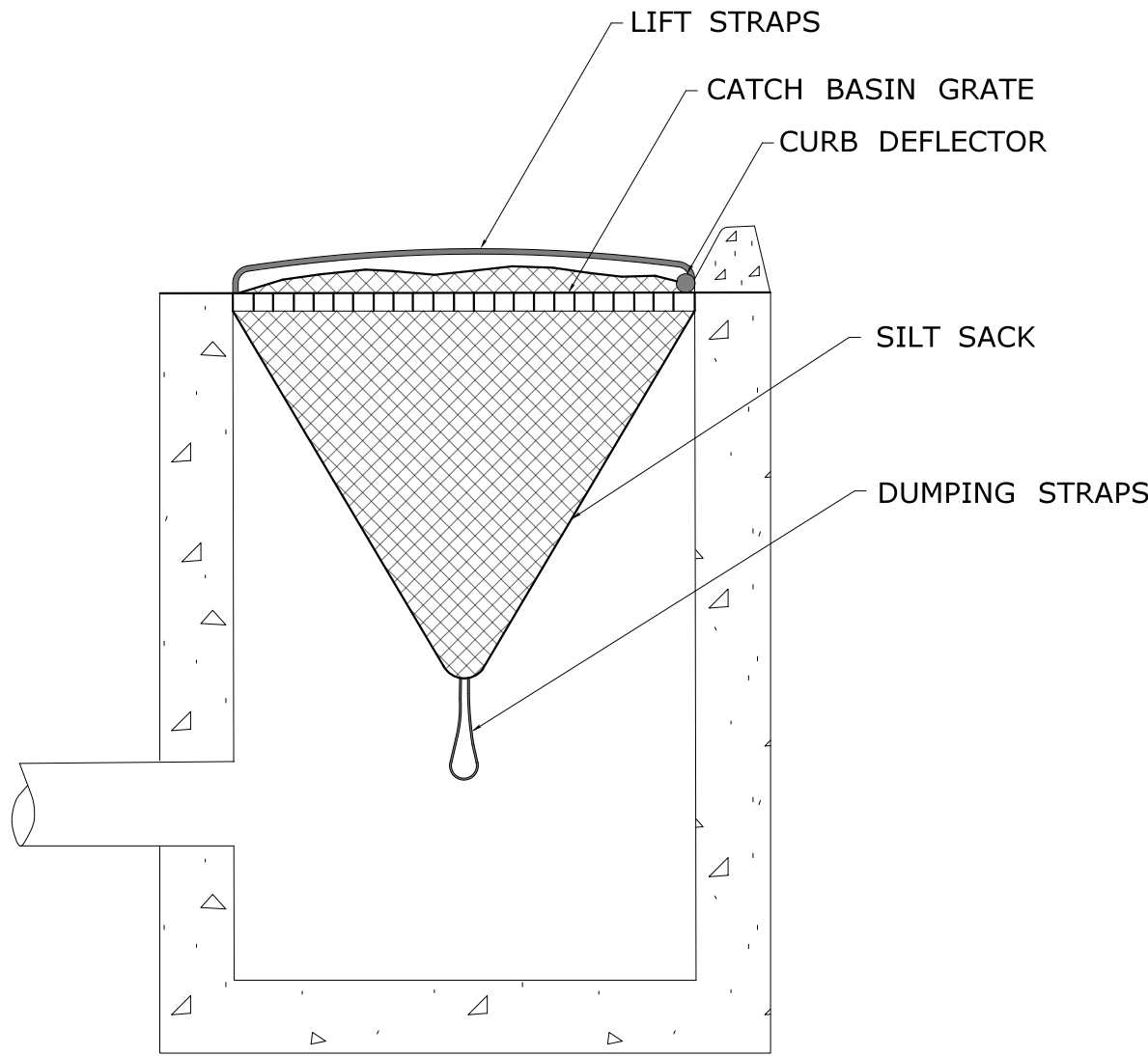
PROJECT NO.:
0147-0062

DRAWING NO.:
MDS-04
SHEET NO.:
03.12



**INLET SEDIMENT CONTROL DEVICE
AT TYPE "C" OR "C-L" CATCH BASIN**

NOTE: THIS ITEM WILL BE MEASURED BY EACH SEDIMENT
CONTROL SYSTEM AT CATCH BASIN AND PAID FOR
UNDER SEDIMENT CONTROL SYSTEM AT CATCH BASIN



SECTION

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:



Alfred Benesch
& Company
120 Water Avenue
2nd Floor
Glastonbury, CT

DESIGNER/DRAFTER: DW

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CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:

REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD
OVER PACHAUG RIVER

TOWN(S):



VOLUNTOWN

DRAWING TITLE:

MISCELLANEOUS DETAILS

PROJECT NO.:

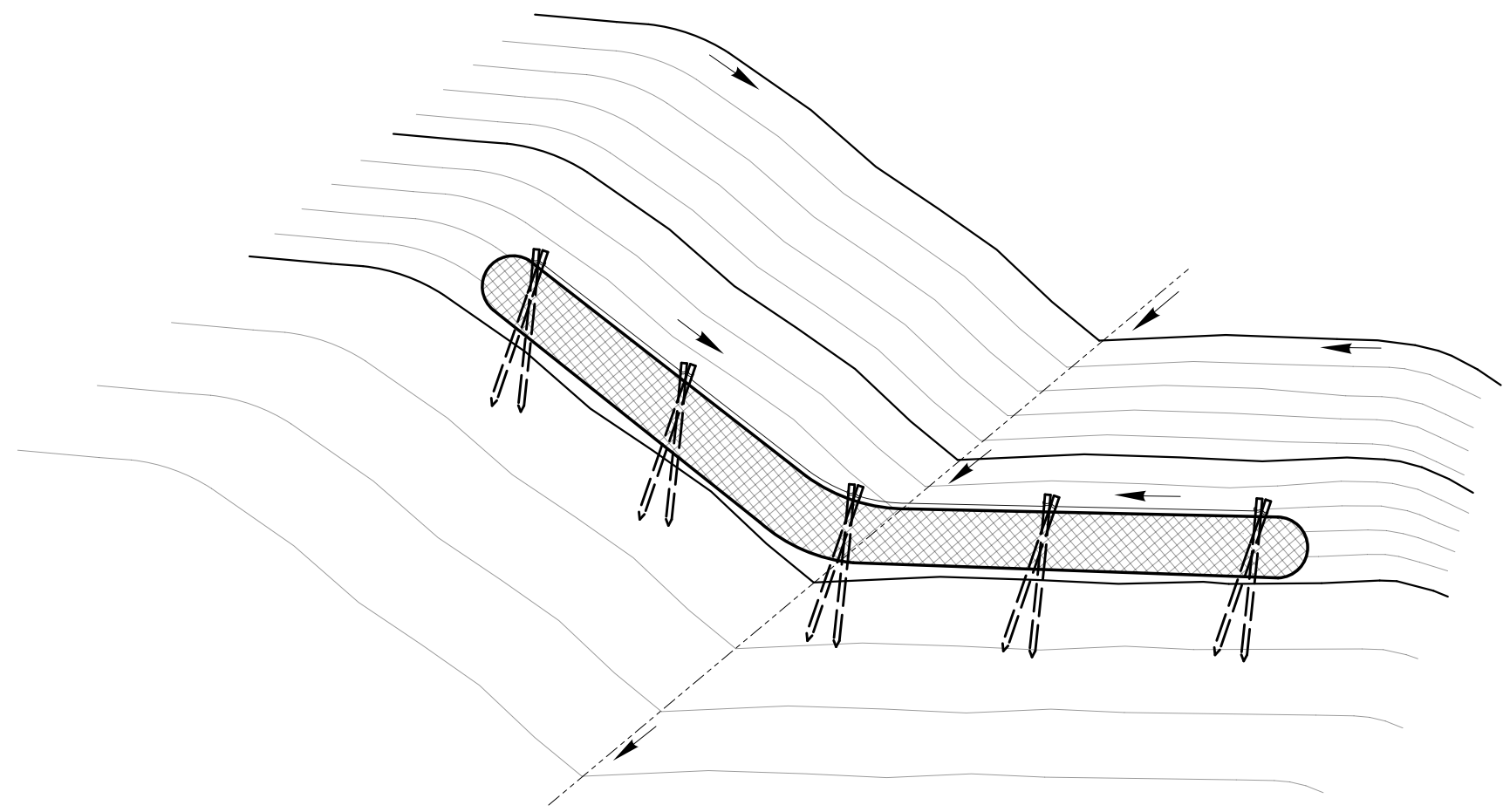
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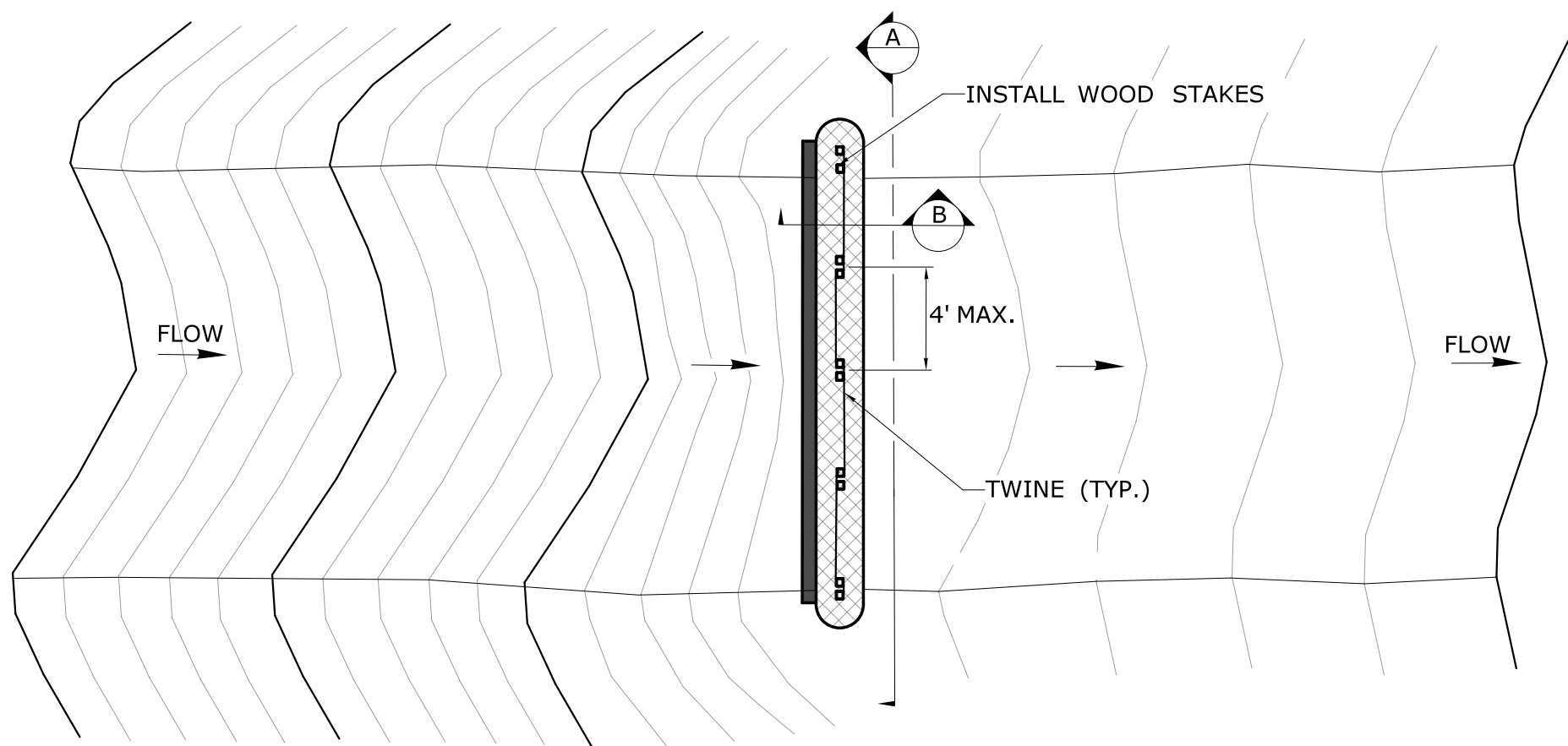
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SHEET NO.:

03.13

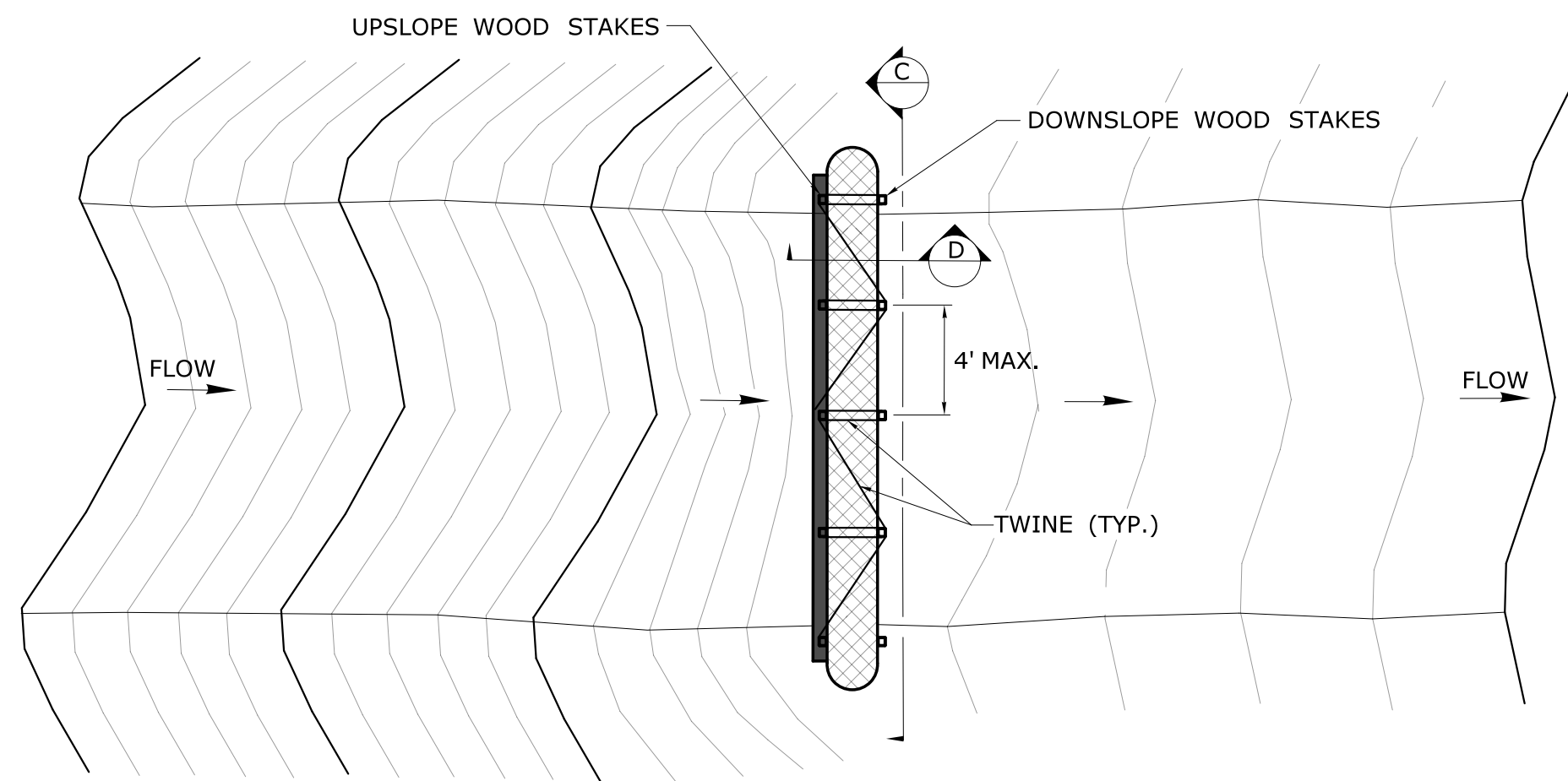


FIBER ROLL IN A CHANNEL



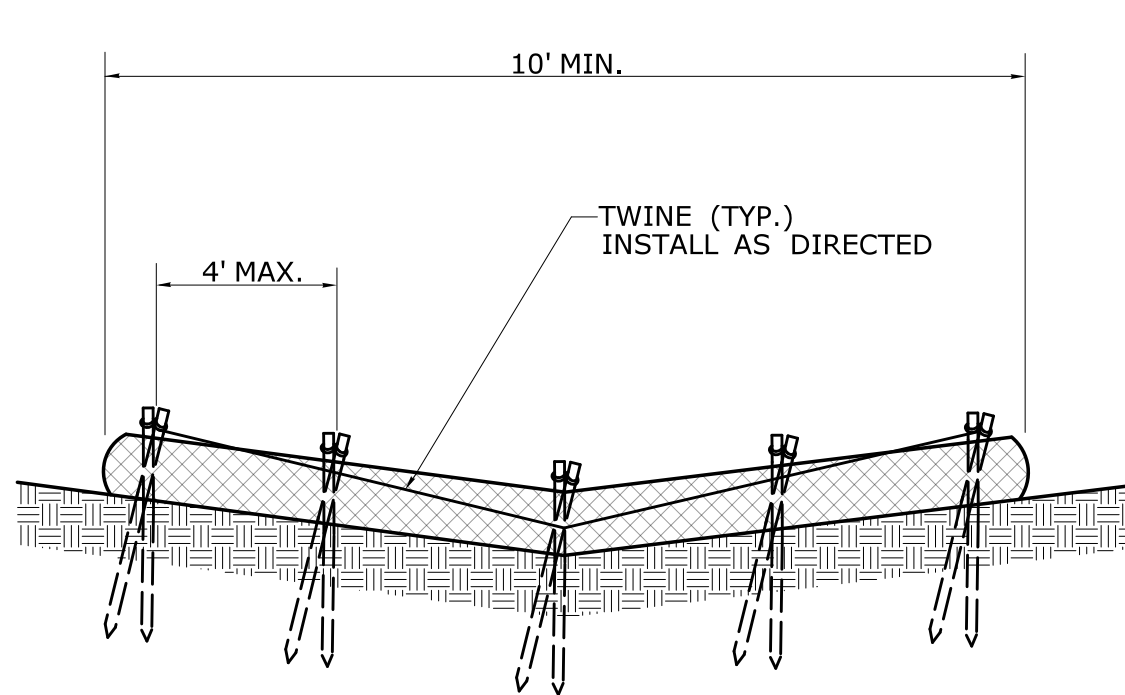
PLAN

FIBER ROLL IN A CHANNEL

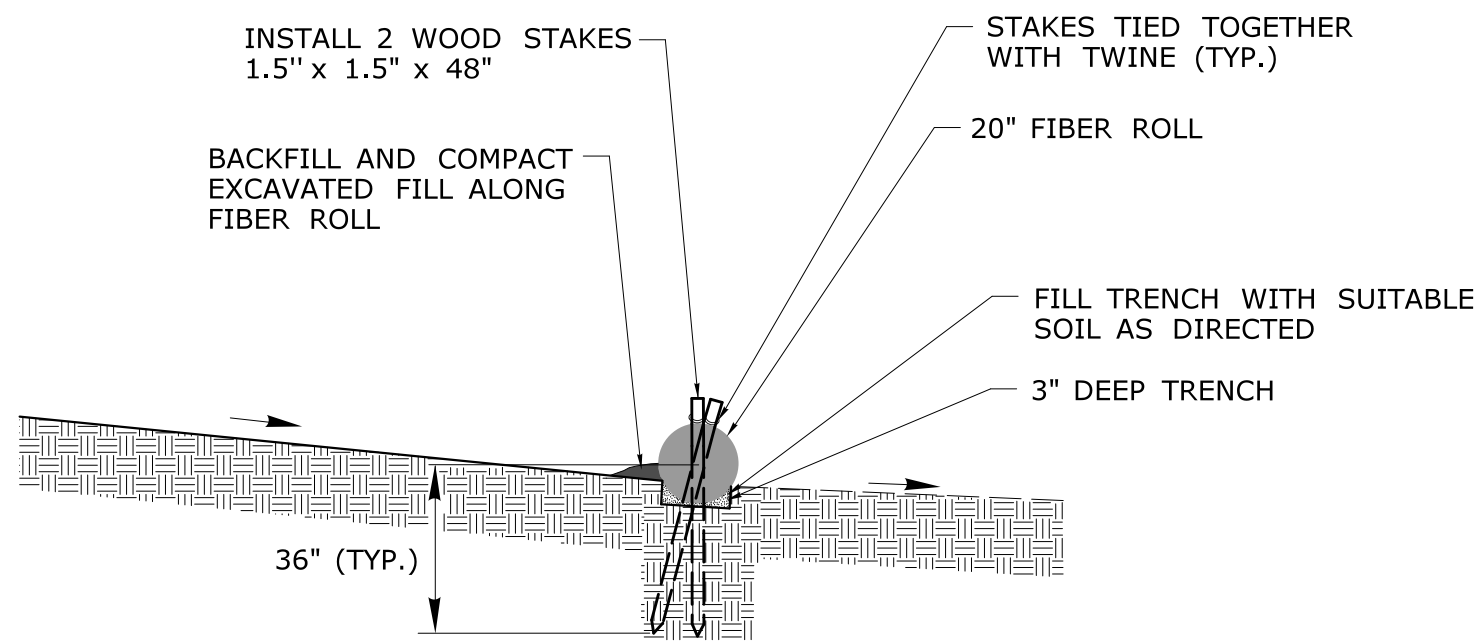


PLAN

ALTERNATIVE WOOD STAKING PLAN
FOR FIBER ROLL IN A CHANNEL

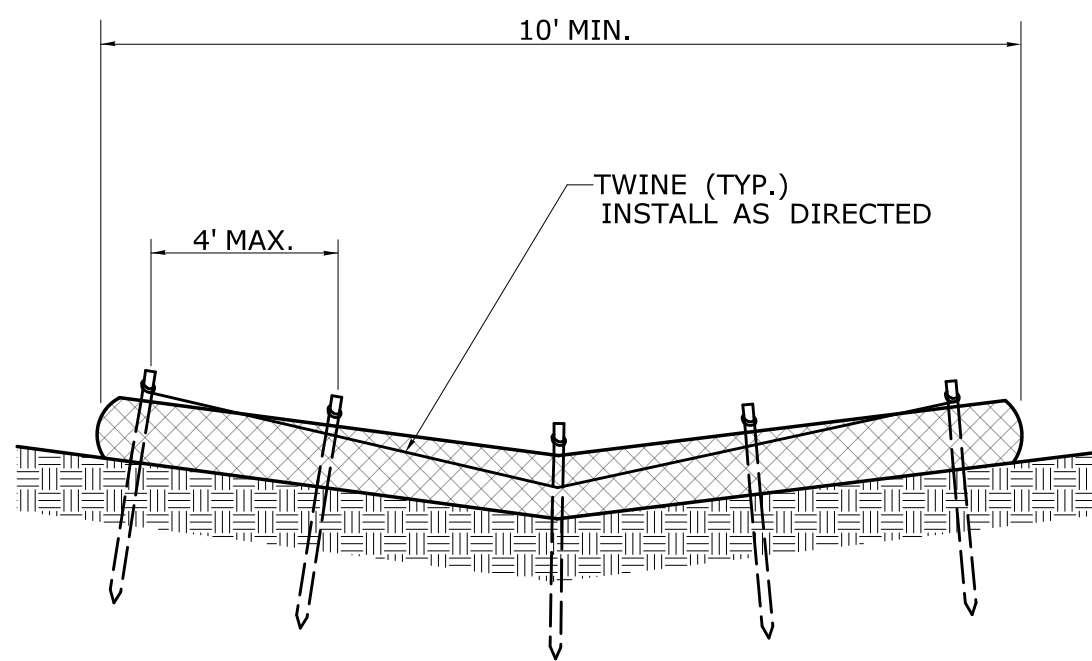


SECTION A



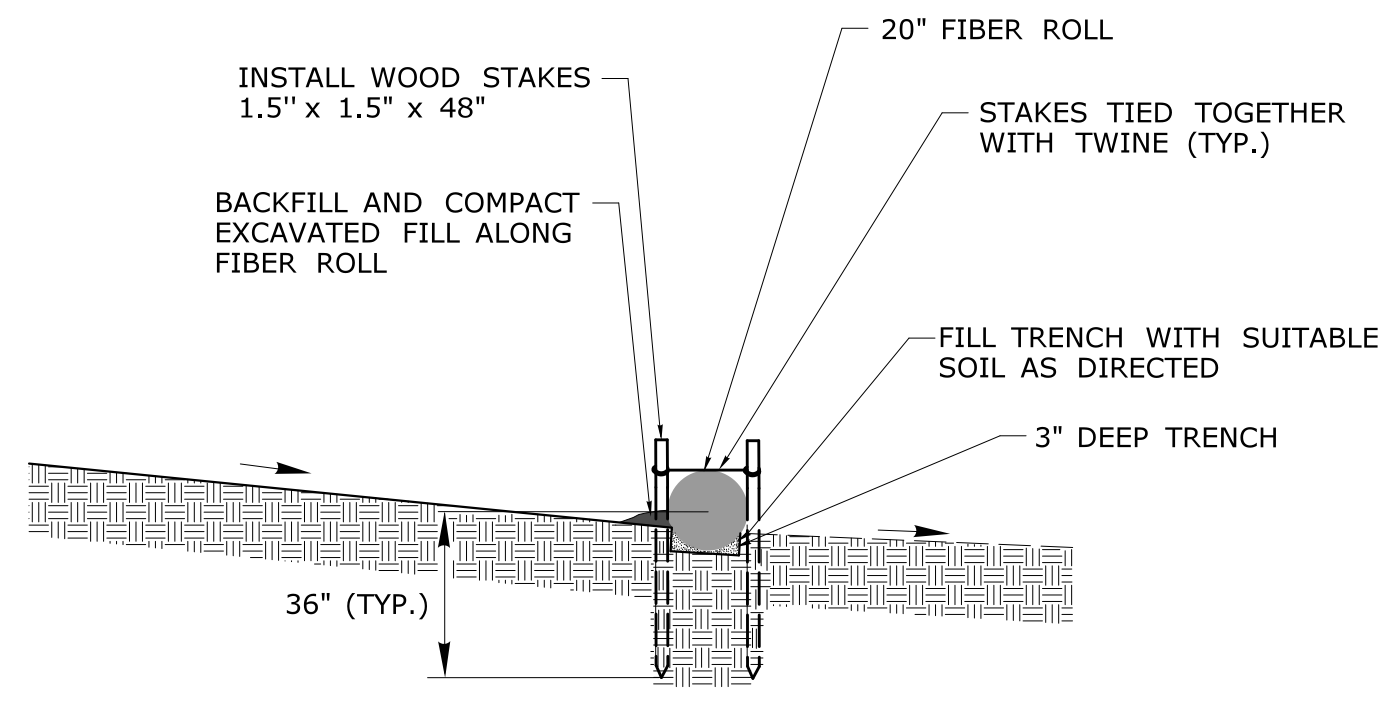
SECTION B

FIBER ROLL AT TOE OF SLOPE OR CHANNEL



SECTION C

FIBER ROLL AT TOE OF SLOPE OR CHANNEL



SECTION D

GENERAL NOTE:

1. FIBER ROLLS SHALL BE STORED PROPERLY TO BE DRY PRIOR TO INSTALLATION.

REV.	DATE	REVISION DESCRIPTION

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NOT TO SCALE

DESIGNER/DRAFTER: DW
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CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:
REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD
OVER PACHAUG RIVER

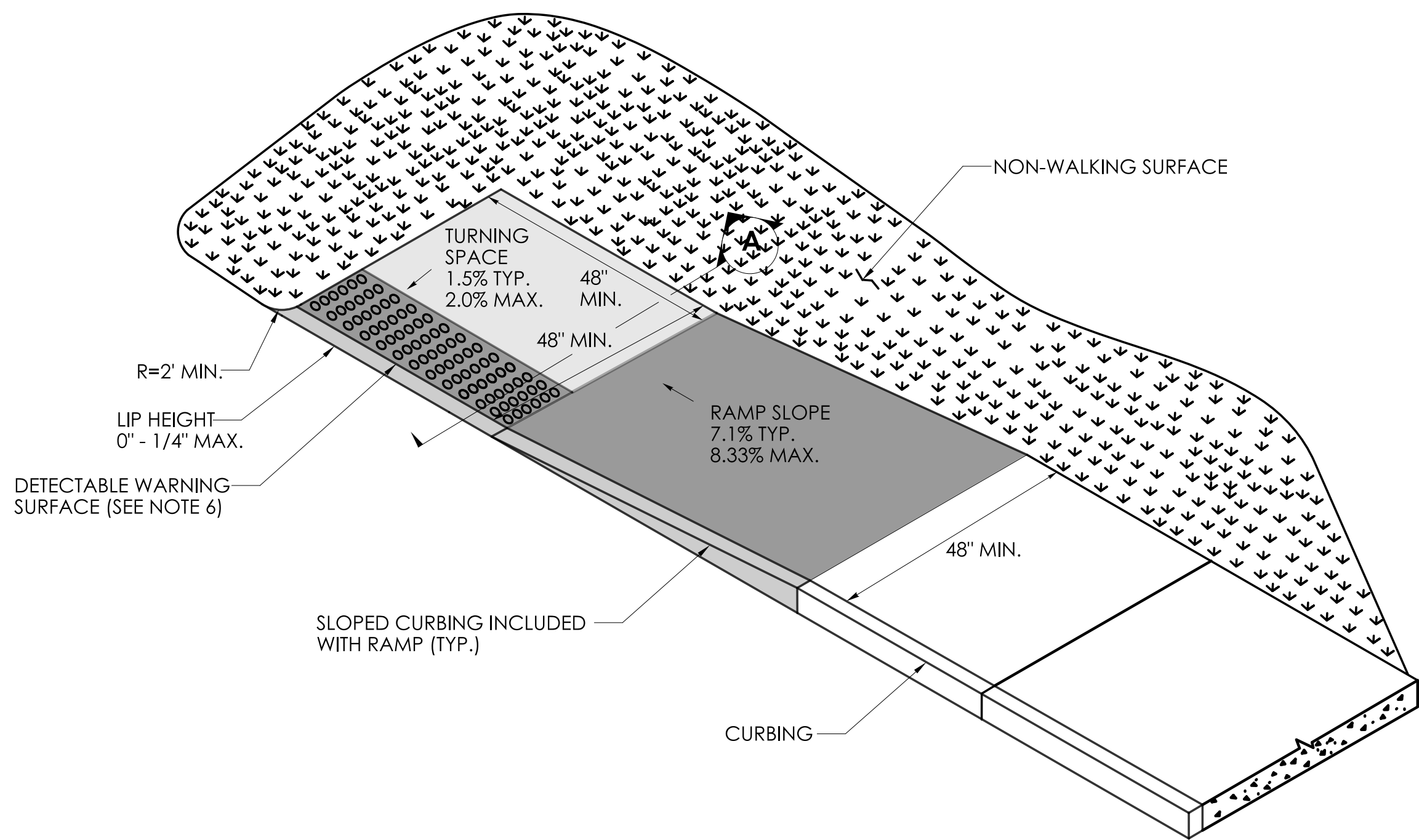
TOWN(S):

VOLUNTOWN

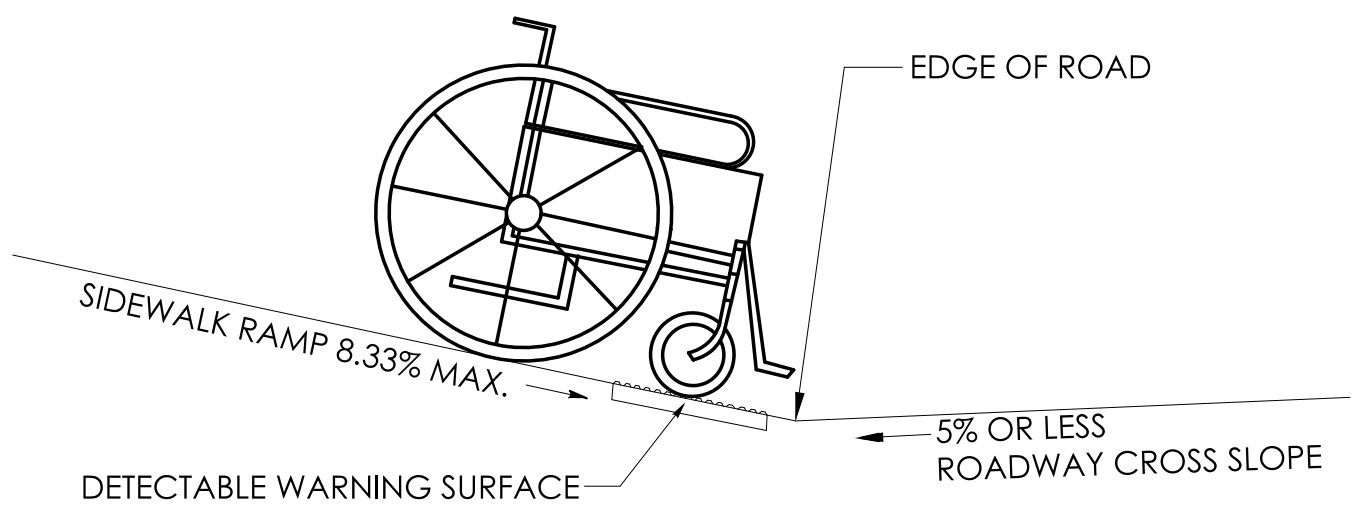
DRAWING TITLE:
MISCELLANEOUS DETAILS

PROJECT NO.:
0147-0062

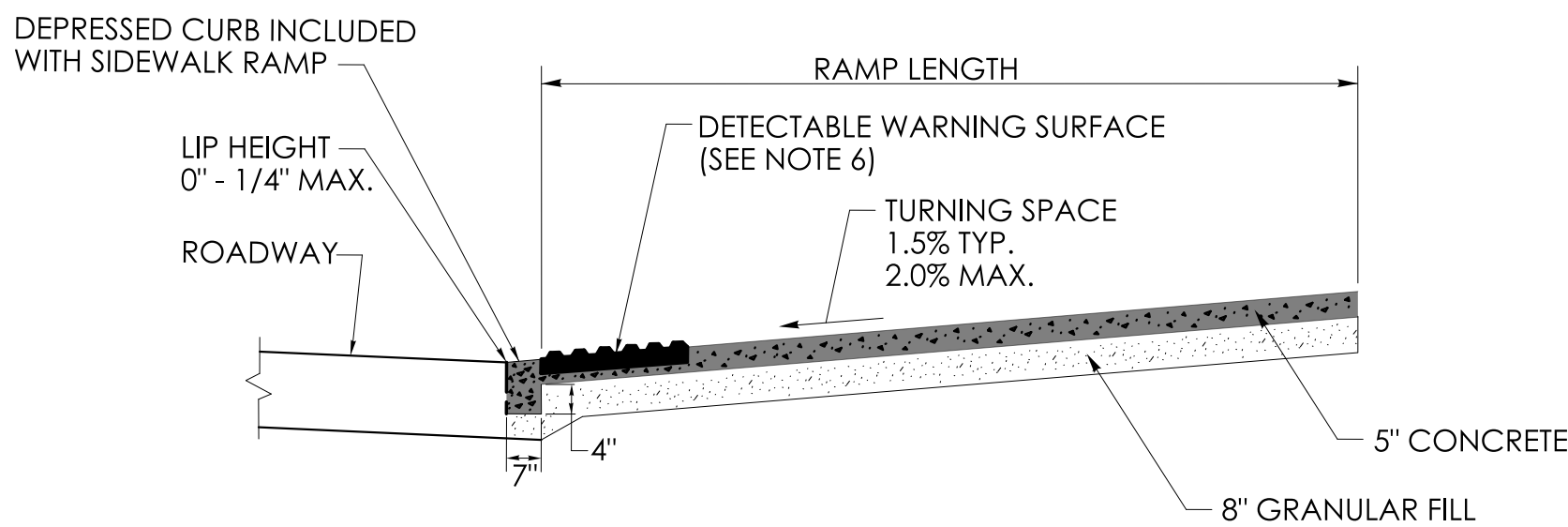
DRAWING NO.:
MDS-06
SHEET NO.:
03.14



**PARALLEL RAMP
WITH TURNING SPACE
CONSTRAINED ON ONE SIDE
(TYPE 10a)**



**SIDEWALK RAMP GRADE AT
ROADWAY CROSS SLOPE OF 5% OR LESS
GUTTER COUNTER SLOPE**



SECTION A

GENERAL NOTES:

1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP.
2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED 1/4" INCH.
3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.
4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.33 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.
5. DETECTABLE WARNING SURFACES SHALL BE INSTALLED ON SIDEWALK RAMPS AT PEDESTRIAN STREET CROSSINGS, PEDESTRIAN REFUGE ISLANDS AND RAILROAD CROSSINGS ALONG STREETS OR HIGHWAYS.
6. DETECTABLE WARNING SURFACES SHALL EXTEND 2 FEET MIN. IN THE DIRECTION OF PEDESTRIAN TRAVEL AND SPAN THE ENTIRE RAMP OPENING.
7. ALL GUIDESHEET VALUES COMPLY WITH PROWAG DRAFT 2013 GUIDELINES. UPDATED VALUES WILL BE MADE TO COMPLY WITH PROWAG FINAL RULE ONCE OFFICIALLY THE LAW.
8. CTDOT DESIGN STANDARD USE THE PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG) SEE ENGINEERING DIRECTIVE ED-2019-7.
9. CURB RAMPS SHALL BE CONSTRUCTED SO THAT WATER WILL NOT ACCUMULATE WITHIN THE PEDESTRIAN ACCESS ROUTE.

REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

Allied Research
& Company
420 Western Avenue
2nd Floor
Glastonbury, CT

DESIGNER/DRAFTER: DW

CHECKED BY: RA

NOT TO SCALE



CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:
**REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD
OVER PACHAUG RIVER**

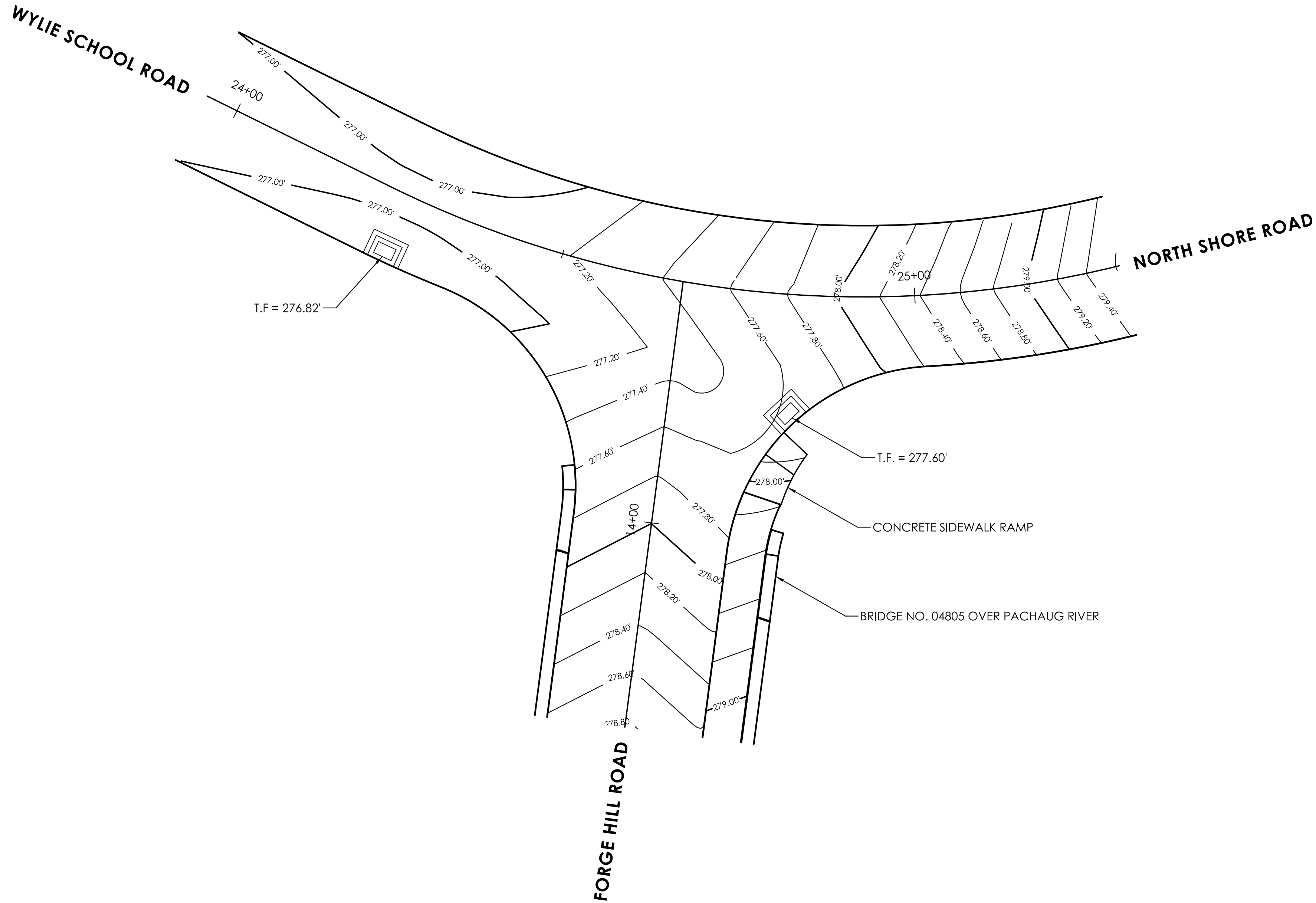
TOWN(S):

VOLUNTOWN

DRAWING TITLE:
MISCELLANEOUS DETAILS

PROJECT NO.:
0147-0062

DRAWING NO.:
MDS-07
SHEET NO.:
03.15



NOTE
1. CONTOUR INTERVAL SHOWN IS 0.2 FT.

REV.	DATE	REVISION DESCRIPTION

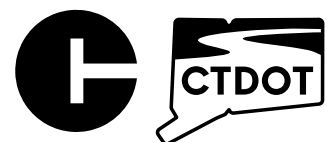
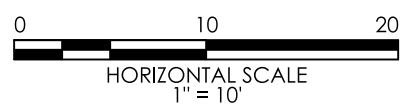
SIGNATURE BLOCK:



Alfred Benesch
& Company
420 Western Avenue
2nd Floor
Greenwich, CT

DESIGNER/DRAFTER: DW/BV

CHECKED BY: RA



CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:

REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD
OVER PACHAUG RIVER

TOWN(S):



VOLUNTOWN

DRAWING TITLE:

INTERSECTION GRADING
PLAN

PROJECT NO.:
0147-0062

DRAWING NO.:
IGP-01
SHEET NO.:
03.16



Turf Establishment - Lawn-

* PLANT IN GROUPS OF THREE

1. ANY TREE CLEARING WORK INCLUDING TRIMMING, CUTTING AND REMOVAL OF TREES WITH A 3" DBH OR GREATER SHOULD BE RESTRICTED TO THE PERIOD FROM NOVEMBER 1 TO APRIL 14. THE TOWN OF VOLUNTOWN WILL PROVIDE ADVANCED TREE CLEARING FOR THE PROJECT. TREES NOT REMOVED BY THE TOWN, ADDITIONAL TREE CLEARING, OR ADDITIONAL TREE TRIMMING REQUIRED FOR CONSTRUCTION ACTIVITIES SHALL BE PERFORMED BY THE CONTRACTOR. SEE NTC - TREE CLEARING. GROUND DISTURBING ACTIVITIES SHOULD BE DONE BETWEEN APRIL 1 AND OCTOBER 31 (INCLUSIVE) TO AVOID KILLING HIBERNATING ANIMALS.
2. PLANTINGS ON THIS SHEET ARE FOR ENVIRONMENTAL PERMITTING. ANY SUBSTITUTIONS TO THE PERMIT PLANTINGS SHALL BE COORDINATED WITH THE TOWN OR DESIGNATED REPRESENTATIVE.
3. PROPOSED PLANTINGS TO BE FIELD LOCATED BY THE TOWN OR THEIR DESIGNATED REPRESENTATIVE.
4. WOOD CHIP MULCH SHALL NOT BE PLACED IN THE WETLAND AREA.
5. DISTURBED AREAS BELOW THE WETLAND LIMIT SHALL BE SEEDED WITH WETLAND GRASS ESTABLISHMENT. DISTURBED AREAS ABOVE THE WETLAND LIMIT SHALL BE SEEDED WITH CONSERVATION SEEDING FOR SLOPES, OR OTHER SEED MIX AS SPECIFIED. ALL AREAS SHALL BE RESTORED.
6. ALL PLANT MATERIAL SHALL BE NURSERY GRADE STRAIGHT SPECIES, CONFORMING TO SECTION 3 OF THE AMERICAN STANDARDS FOR NURSERY STOCK. THE TOWN WILL REVIEW AND APPROVE PROPOSED PLANTINGS.
7. NO PLANTINGS SHALL BE PLACED IN MOW AREA.
8. AREA TO BE TREATED FOR INVASIVES SHALL BE PROPERLY PREPARED FOR FINAL PLANTING, SEEDING, AND RESTORATION.

WETLAND LIMIT (STATE AND FEDERAL)	
FEMA 100-YEAR FLOOD (CALCULATED)	
ORDINARY HIGH WATER	
WATER HANDLING COFFERDAM	
COFFERDAM	
SEDIMENTATION CONTROL SYSTEM	

PLANTING PLAN

[illegible]

SIGNATURE BLOCK: benesch DESIGNER/DRAFTER: A. BISI	Alfred Benesch & Company 120 Hudson Avenue 2nd Floor Glastonbury, CT CHECKED BY: M. HABEK
---	---



CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:

**REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD
OVER PACHAUG RIVER**



VOLUNTOWN

DRAWING TITLE:

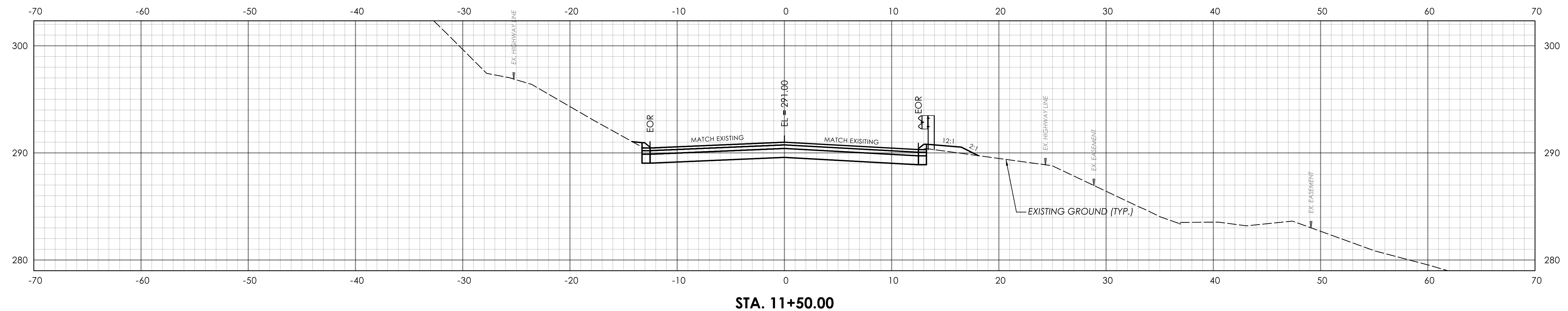
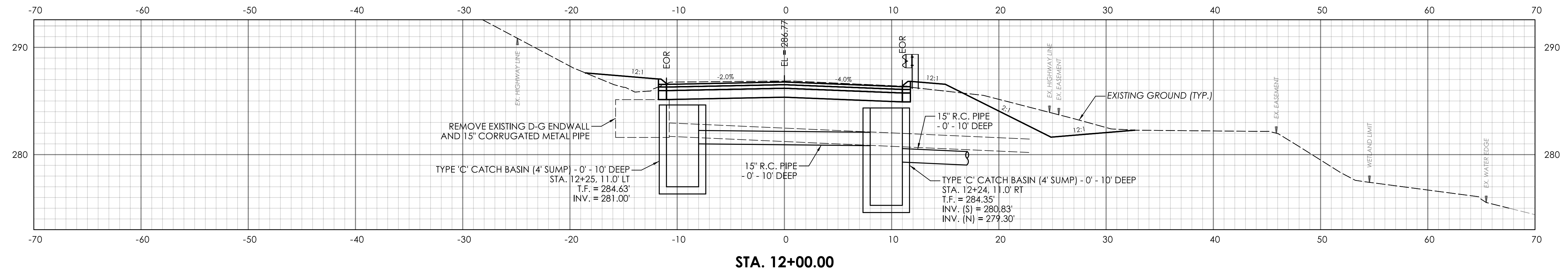
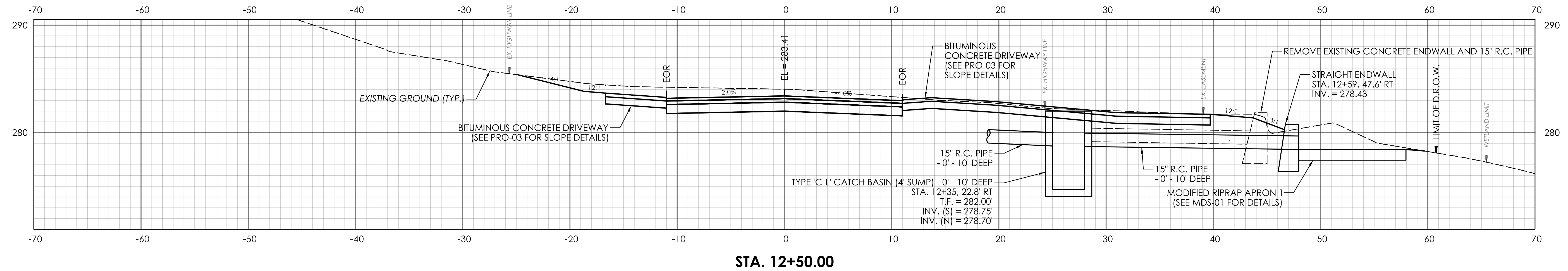
PERMIT PLANTING PLAN

PROJECT NO.:
0147-0062

DRAWING NO.:
PMT-07

SHEET NO.:
03.17

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PLOTTED DATE: 10/15/2025



REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

benesch

DESIGNER/DRAFTER: D. WALSH, B. VALENZUELA
CHECKED BY: R. ALLARD

HORIZONTAL SCALE
1" = 5'



CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:
**REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD
OVER PACHAUG RIVER**

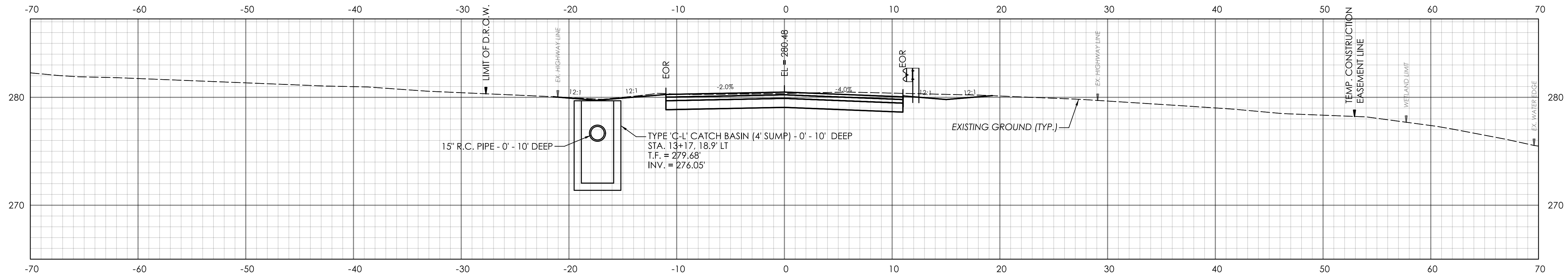
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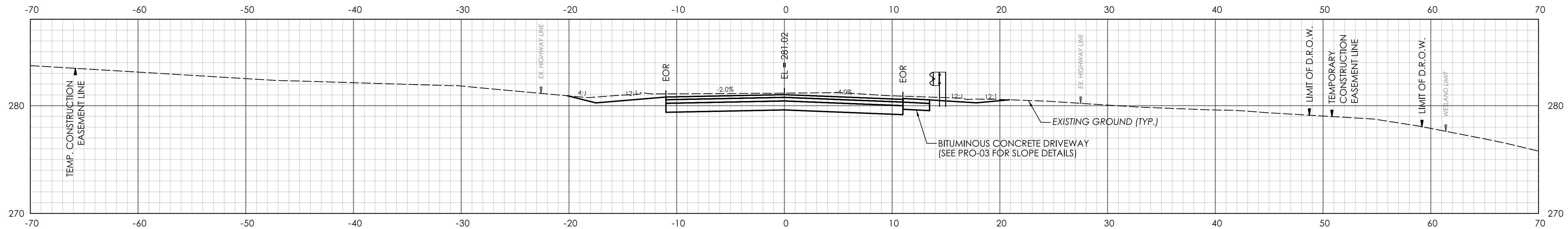
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SHEET NO.:
03.18

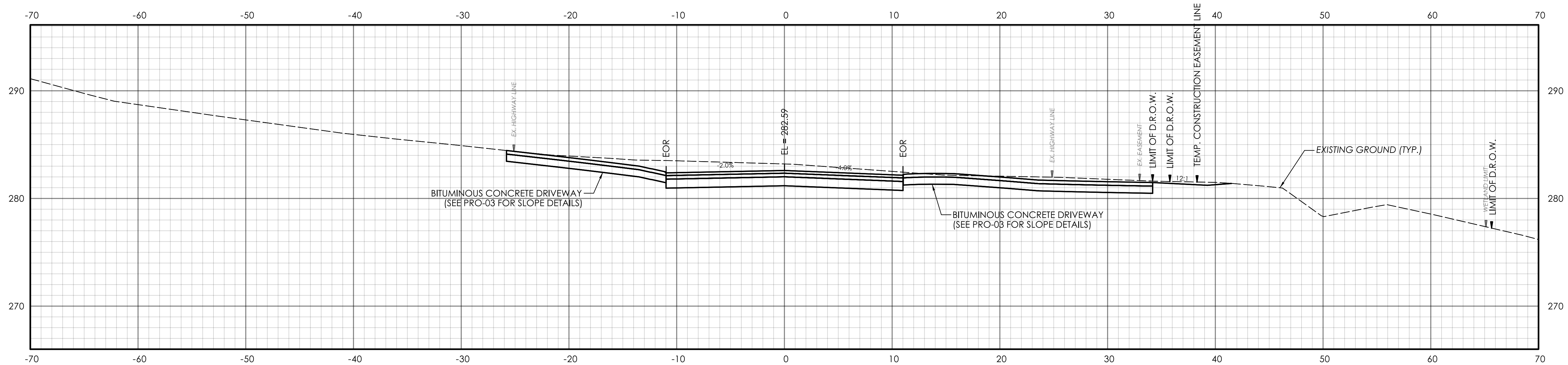
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STA. 13+15.00



STA. 13+00.00



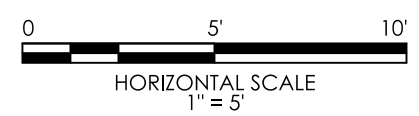
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REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

benesch

DESIGNER/DRAFTER: B. VALENZUELA CHECKED BY: R. ALLARD



CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:
**REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD
OVER PACHAUG RIVER**

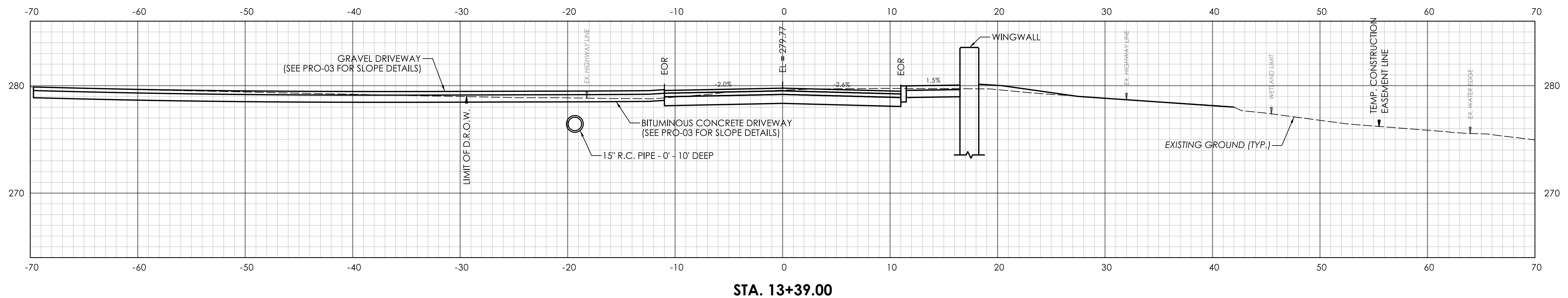
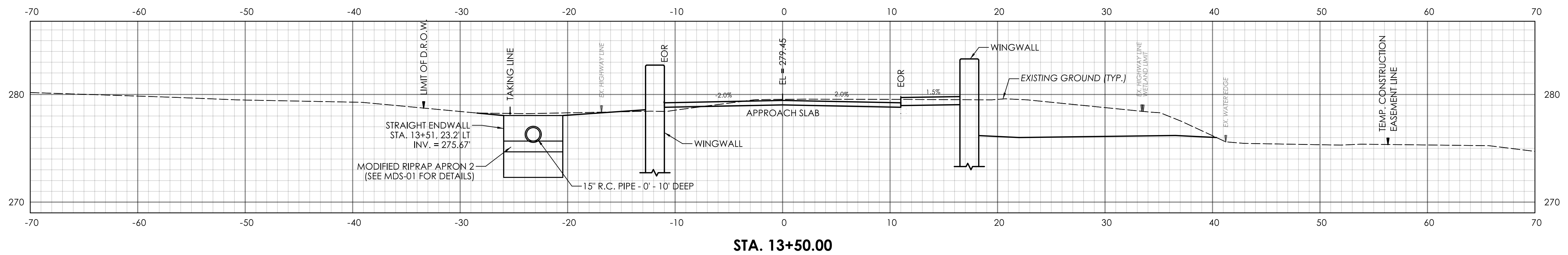
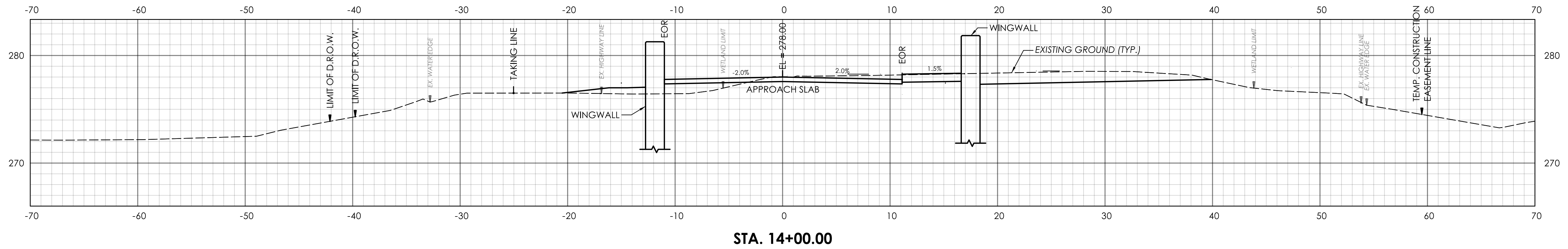
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VOLUNTOWN

DRAWING TITLE:
CROSS SECTIONS

PROJECT NO.:
0147-0062

DRAWING NO.:
XSC-02
SHEET NO.:
03.19



REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

benesch

DESIGNER/DRAFTER: D. WALSH, B. VALENZUELA
CHECKED BY: R. ALLARD

0 5' 10'

HORIZONTAL SCALE
1" = 5'

CTDOT

CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:

**REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD
OVER PACHAUG RIVER**

TOWN(S):

VOLUNTOWN

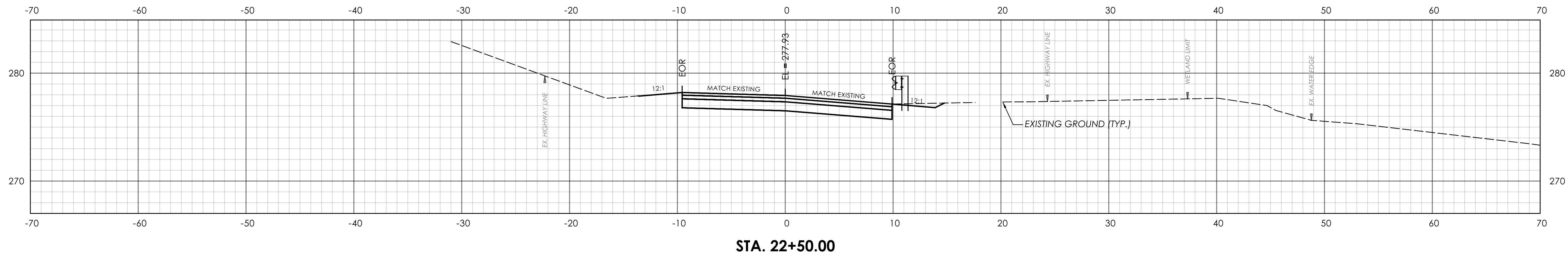
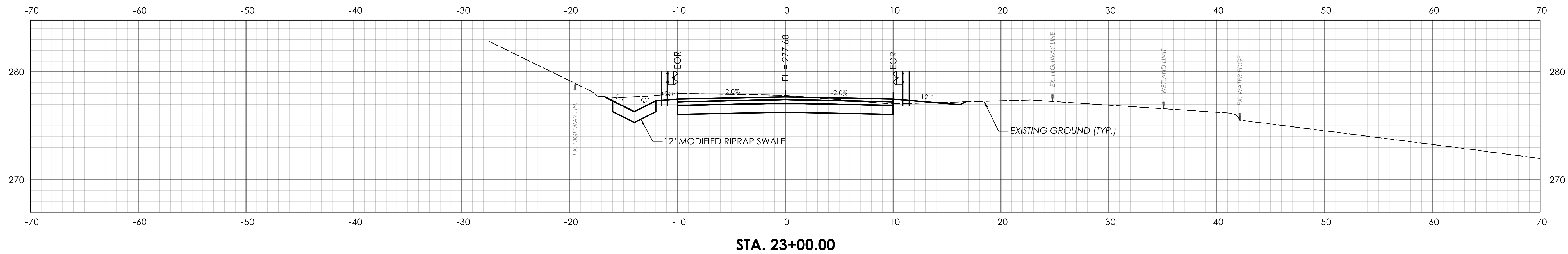
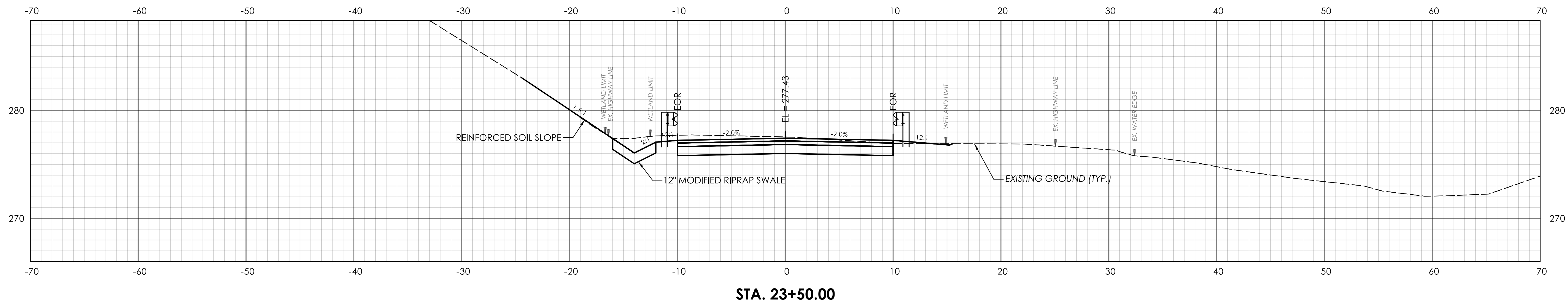
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CROSS SECTIONS

PROJECT NO.:
0147-0062

DRAWING NO.:
XSC-03

SHEET NO.:
03.20

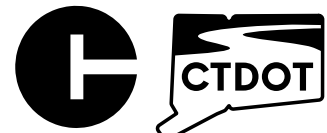
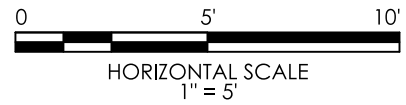


REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

Allied Research
& Company
120 Western Avenue
2nd Floor
Greenwich, CT

DESIGNER/DRAFTER: D. WALSH, B. VALENZUELA CHECKED BY: R. ALLARD



CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:

REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD
OVER PACHAUG RIVER

TOWN(S):

VOLUNTOWN

DRAWING TITLE:

CROSS SECTIONS

PROJECT NO.:

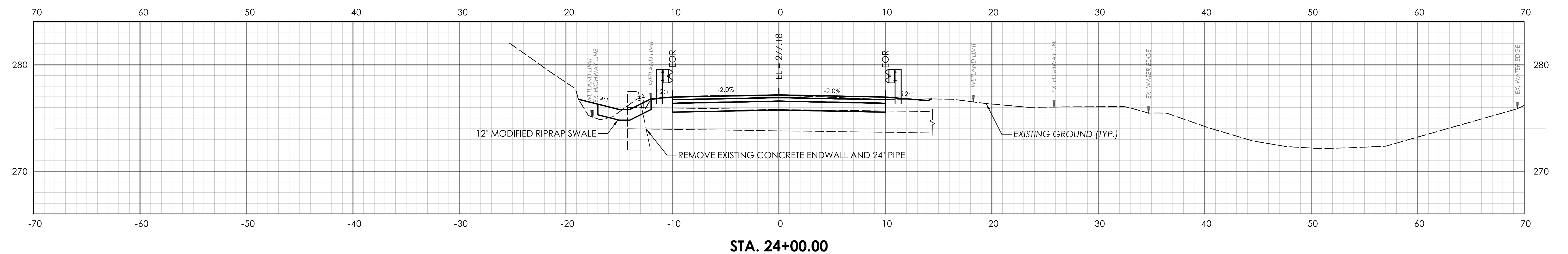
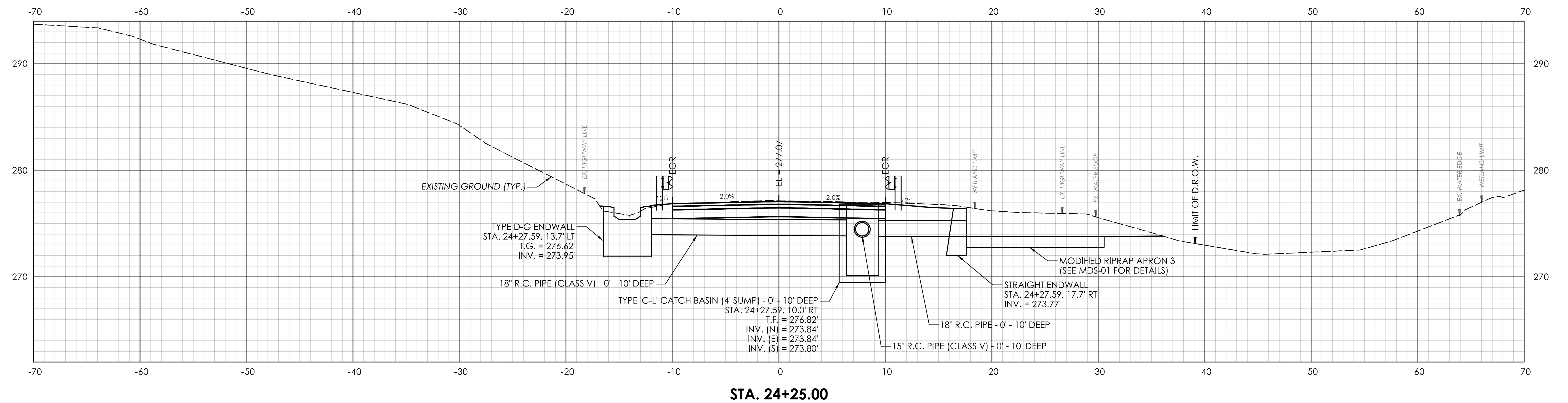
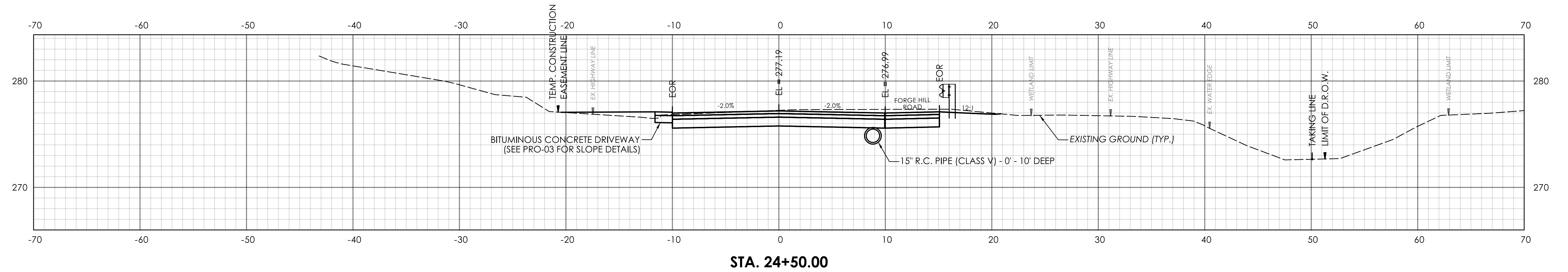
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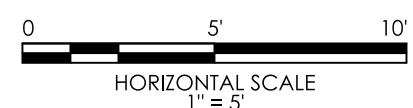
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SIGNATURE BLOCK:

 **benesch**

 Allied Benesch
& Company
120 Hebron Avenue
2nd Floor
Glastonbury, CT

DESIGNER/DRAFTER: D. WALSH, B. VALENZUELA CHECKED BY: R. ALLARD



CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:

**REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD
OVER PACHAUG RIVER**



DRAWING TITLE:

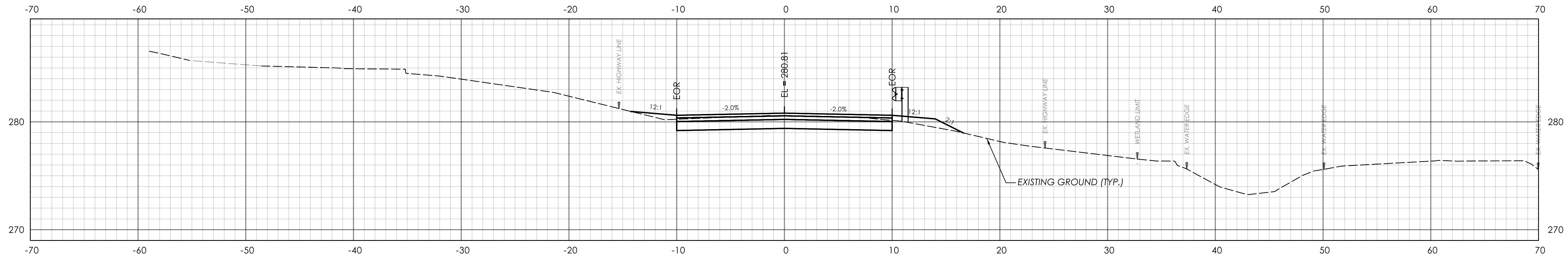
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PROJECT NO.:	0147-0062
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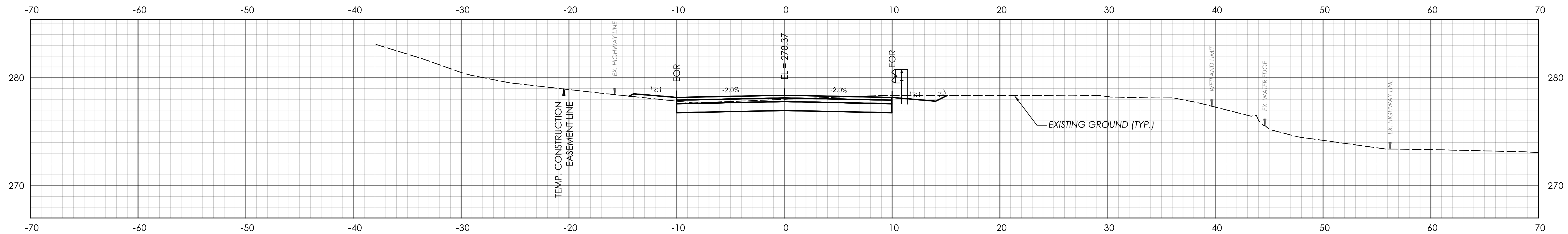
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SHEET NO.:
03.22

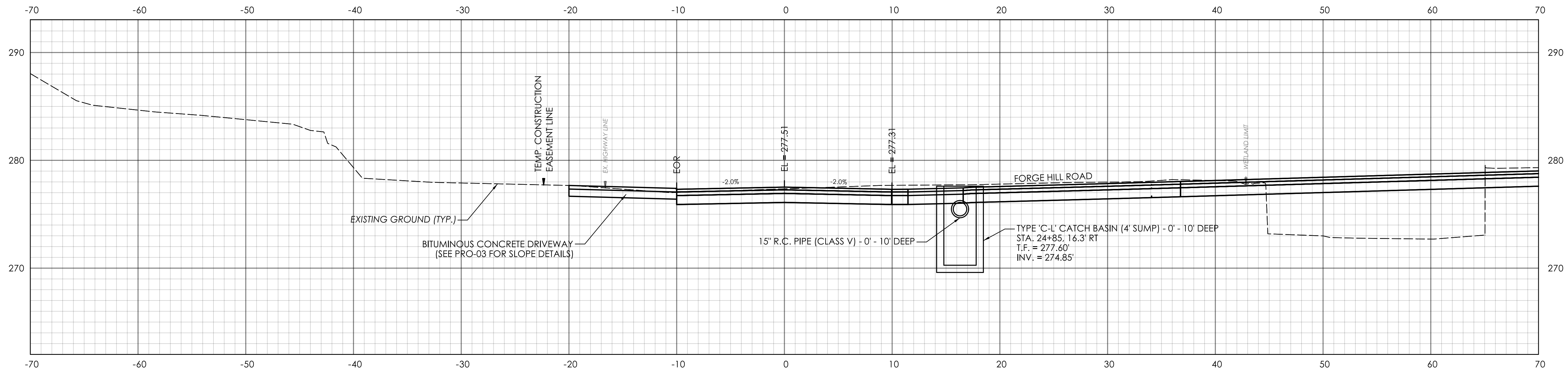
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STA. 25+50.00



STA. 25+00.00



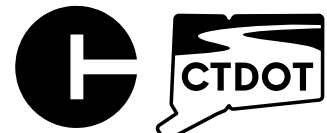
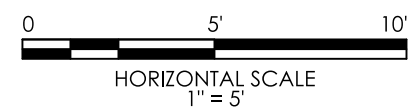
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REV.	DATE	REVISION DESCRIPTION

SIGNATURE BLOCK:

benesch

DESIGNER/DRAFTER: D. WALSH, B. VALENZUELA CHECKED BY: R. ALLARD



CONNECTICUT
DEPARTMENT OF
TRANSPORTATION

PROJECT TITLE:
**REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD
OVER PACHAUG RIVER**

TOWN(S):

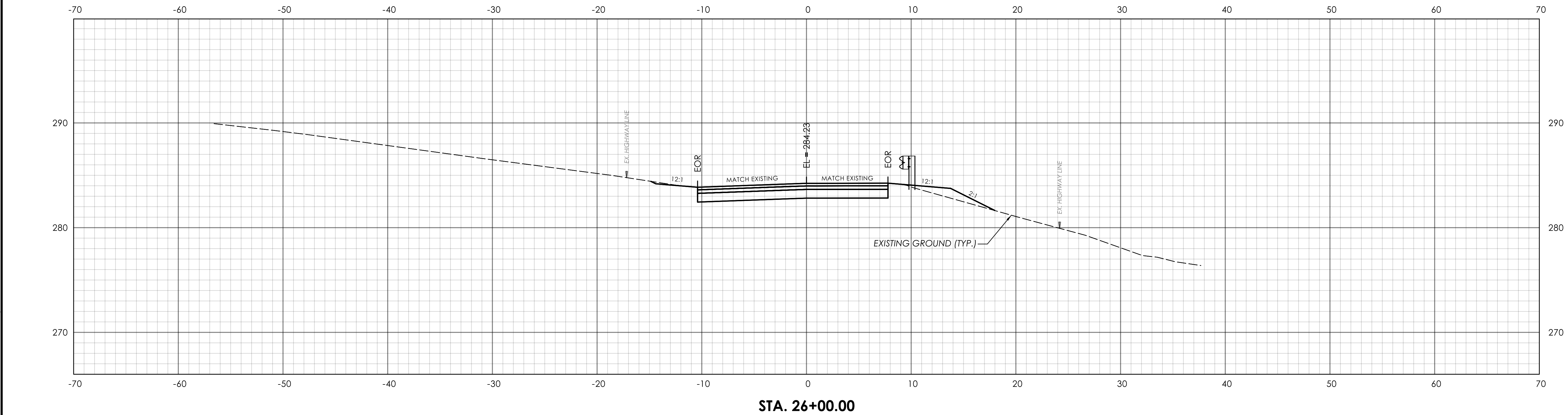
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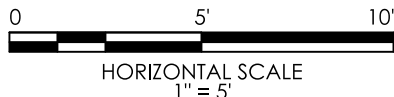
PROJECT NO.:
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DRAWING NO.:
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SHEET NO.:
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REV.	DATE	REVISION DESCRIPTION



STA. 26+00.00

SIGNATURE BLOCK:		 Alfred Benesch & Company 425 Western Avenue 2nd Floor Oxonbury, CT								PROJECT TITLE: REPLACEMENT OF BRIDGE NO. 04805; FORGE HILL ROAD OVER PACHAUG RIVER		TOWN(S):  VOLUNTOWN		DRAWING TITLE: CROSS SECTIONS		PROJECT NO.: 0147-0062		DRAWING NO.: XSC-07	
DESIGNER/DRAFTER: DW, BV		CHECKED BY: RA																SHEET NO.: 03.24	