



# 03 - HIGHWAY INDEX OF DRAWINGS

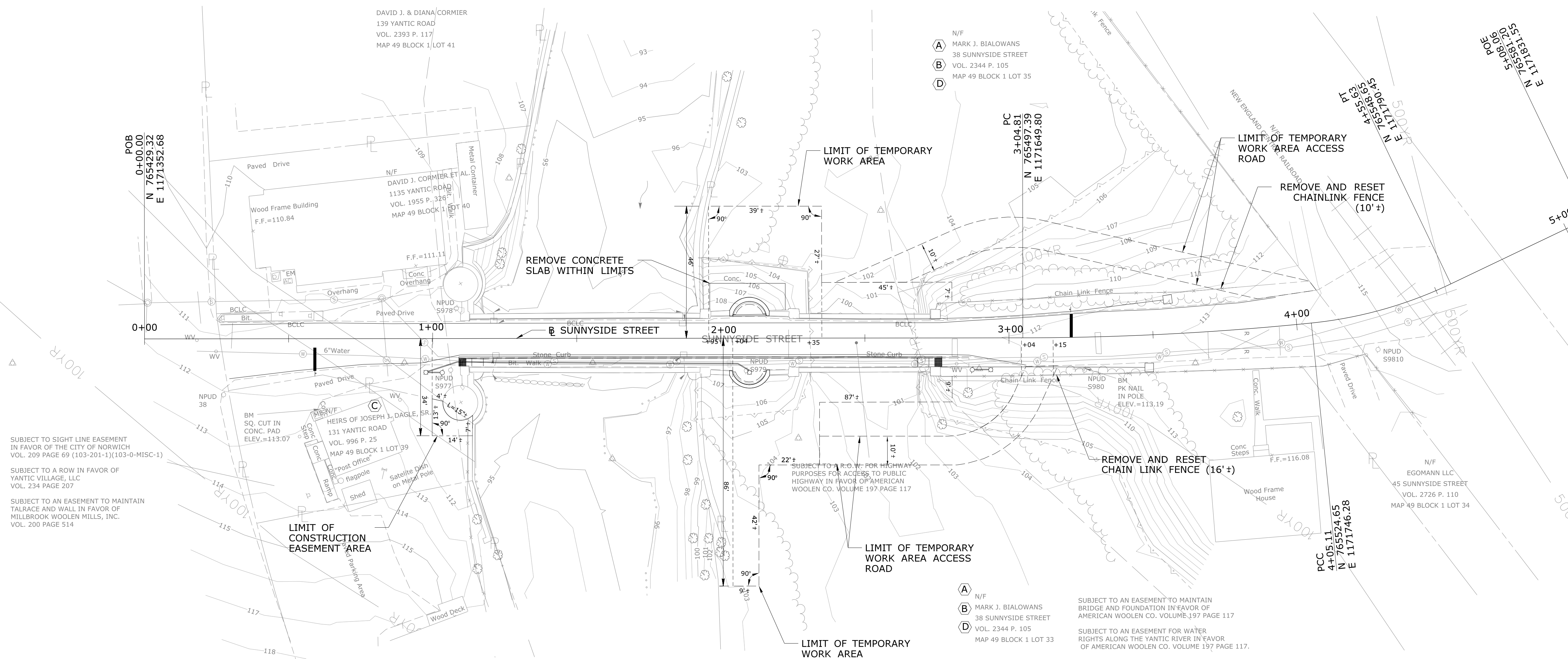
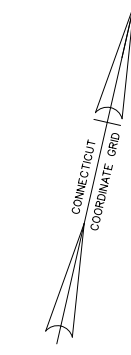
DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
HWY-01	INDEX OF HIGHWAY DRAWINGS		
HWY-02	RIGHT OF WAY PLAN		
HWY-03	TYPICAL SECTION AND DETAILS		
HWY-04	ROADWAY PLAN		
HWY-05	SIGNING AND PAVEMENT MARKING PLAN		
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HWY-07	M&PT STAGE 2		
HWY-08	ROADWAY CLOSURE SIGNAGE PLAN		
HWY-09	SIGN FACE SHEET ALUMINUM R-SERIES SIGNS TYPICAL DETAILS		
HWY-10	SIGN FACE SHEET ALUMINUM S&W SERIES SIGNS TYPICAL DETAILS		
HWY-11	STEEL-BACKED TIMBER GUIDERAIL 1		
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HWY-13	STEEL-BACKED TIMBER GUIDERAIL 3		
HWY-14	SIDEWALK RAMP DETAILS		
HWY-15	SIGN FACE SHEET ALUMINUM D,RS,E,I,&M SERIES SIGNS TYPICAL DETAILS		

DESIGNED BY:  
ALFRED BENESCH & CO.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	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: <b>E. LAPLANTE</b> CHECKED BY: <b>R. MEARS</b>		SIGNATURE/BLOCK:  Alfred Benesch & Company 90 National Drive Glastonbury, CT	PROJECT TITLE: <b>REHABILITATION OF BR. #04746 SUNNYSIDE STREET OVER YANTIC RIVER</b>	CITY: <b>NORWICH</b>	PROJECT NO. <b>103-261</b> DRAWING NO. <b>HWY-01</b> SHEET NO. <b>3.1</b>	
Plotted Date: 8/9/2018				Filename: ...VHW_MSH_Br04746_103_261_INDEX.dgn							

**PROPERTY ACQUISITION LEGEND**

- (A) TEMPORARY WORK AREA FOR REHABILITATION OF BRIDGE NO. 04746, SUNNYSIDE STREET OVER YANTIC RIVER REQUIRED TO INCLUDE TEMPORARY STORAGE OF MATERIALS, PLACEMENT OF EQUIPMENT, REMOVAL OF CONCRETE SLAB, AND TEMPORARY INSTALLATION OF TIMBER MATS. WORK AREA TAKEN UNDER THIS PARAGRAPH WILL BE RESTORED BY GRADING AND RESEEDING OF DISTURBED AREAS AND REMOVAL OF ALL IMPERMANENT INSTALLATIONS. SAID WORK AREA WILL BE EXTINGUISHED UPON COMPLETION OF THE PROJECT, UNLESS SOONER EXTINGUISHED BY THE STATE.
- (B) TEMPORARY WORK AREA FOR THE REHABILITATION OF BRIDGE NO. 04746, SUNNYSIDE STREET OVER YANTIC RIVER REQUIRED. SAID WORK AREA IS LIMITED TO A TEMPORARY WORK AREA ACCESS ROAD, LIMIT TO TRAVEL ONLY AND IS NOT TO BE USED FOR STORAGE OF MATERIALS OR PLACEMENT OF EQUIPMENT. WORK AREA TAKEN UNDER THIS PARAGRAPH SHALL BE RESTORED BY GRADING AND RESEEDING OF DISTURBED AREAS. SAID WORK AREA WILL BE EXTINGUISHED UPON COMPLETION OF THE PROJECT, UNLESS SOONER EXTINGUISHED BY THE STATE.
- (C) CONSTRUCTION EASEMENT FOR THE PURPOSE OF PROVIDING CONSTRUCTION ACCESS DURING THE REHABILITATION OF BRIDGE NO. 04746, SUNNYSIDE STREET OVER YANTIC RIVER REQUIRED. CONSTRUCTION EASEMENT TAKEN UNDER THIS PARAGRAPH WILL BE RESTORED BY GRADING AND SEEDING ANY AREAS DISTURBED BY CONSTRUCTION. SAID EASEMENT WILL BE EXTINGUISHED UPON COMPLETION OF THE PROJECT, UNLESS SOONER EXTINGUISHED BY THE STATE.
- (D) RIGHT TO REMOVE AND RESET CHAIN LINK FENCE, REQUIRED.



SUBJECT TO SIGHT LINE EASEMENT IN FAVOR OF THE CITY OF NORWICH VOL. 209 PAGE 69 (103-201-1)(103-0-MISC-1)

SUBJECT TO A ROW IN FAVOR OF YANTIC VILLAGE, LLC VOL. 234 PAGE 207

SUBJECT TO AN EASEMENT TO MAINTAIN TALRACE AND WALL IN FAVOR OF MILLBROOK WOOLEN MILLS, INC. VOL. 200 PAGE 514

SUBJECT TO A R.O.W. FOR HIGHWAY PURPOSES FOR ACCESS TO PUBLIC HIGHWAY IN FAVOR OF AMERICAN WOOLEN CO. VOLUME 197 PAGE 117

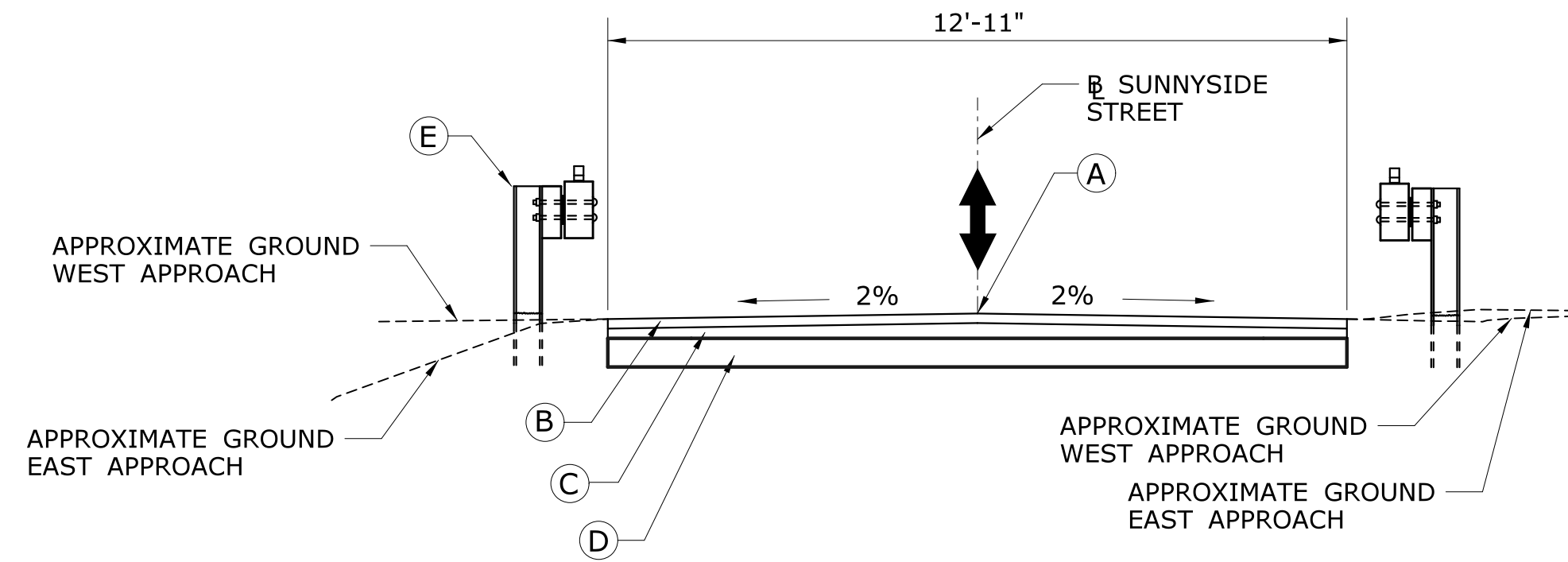
SUBJECT TO AN EASEMENT TO MAINTAIN BRIDGE AND FOUNDATION IN FAVOR OF AMERICAN WOOLEN CO. VOLUME 197 PAGE 117

SUBJECT TO AN EASEMENT FOR WATER RIGHTS ALONG THE YANTIC RIVER IN FAVOR OF AMERICAN WOOLEN CO. VOLUME 197 PAGE 117.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: \$DATES	DESIGNER/DRAFTER: <b>R. MEARS</b> CHECKED BY: <b>S. DRECHSLER</b> SCALE IN FEET  SCALE 1"=20' Filename: \$FILEAS	SIGNATURE/ BLOCK:  Alfred Benesch & Company 90 National Drive Glastonbury, CT	PROJECT TITLE: <b>REHABILITATION OF BR. #04746                  SUNNYSIDE STREET OVER                  YANTIC RIVER</b>	CITY: <b>NORWICH</b> DRAWING TITLE: <b>RIGHT OF WAY PLAN</b>	PROJECT NO. <b>103-261</b> DRAWING NO. <b>HWY-02</b> SHEET NO. <b>3.2</b>
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**LEGEND**

- (A) POINT OF APPLICATION OF GRADE
- (B) 2" HMA S0.5 TRAFFIC LEVEL 2
- (C) 2" MIN HMA S1.0 WEDGE COURSE TRAFFIC LEVEL 2
- (D) 6" GRANULAR FILL
- (E) STEEL-BACKED TIMBER GUIDERAIL - TYPE A (TYP.) (EAST APPROACH ONLY)



**TYPICAL SECTION FULL DEPTH RECONSTRUCTION LIMITS**  
**STA. 0+93.50 - STA. 0+98.50 & STA. 2+84.00 - STA. 2+89.00**  
 SCALE: 3/8" = 1'-0"

MILL 3" OF EXISTING BITUMINOUS OVERLAY AND INSTALL 2" OF HMA S0.5 AND MIN 1" HMA S0.25. MILLING PAID FOR UNDER "FINE MILLING OF BITUMINOUS CONCRETE 0 TO 4 INCHES"

STEEL-BACKED TIMBER GUIDERAIL - TYPE A (TYP.) (EAST APPROACH ONLY)

APPROXIMATE GROUND WEST APPROACH

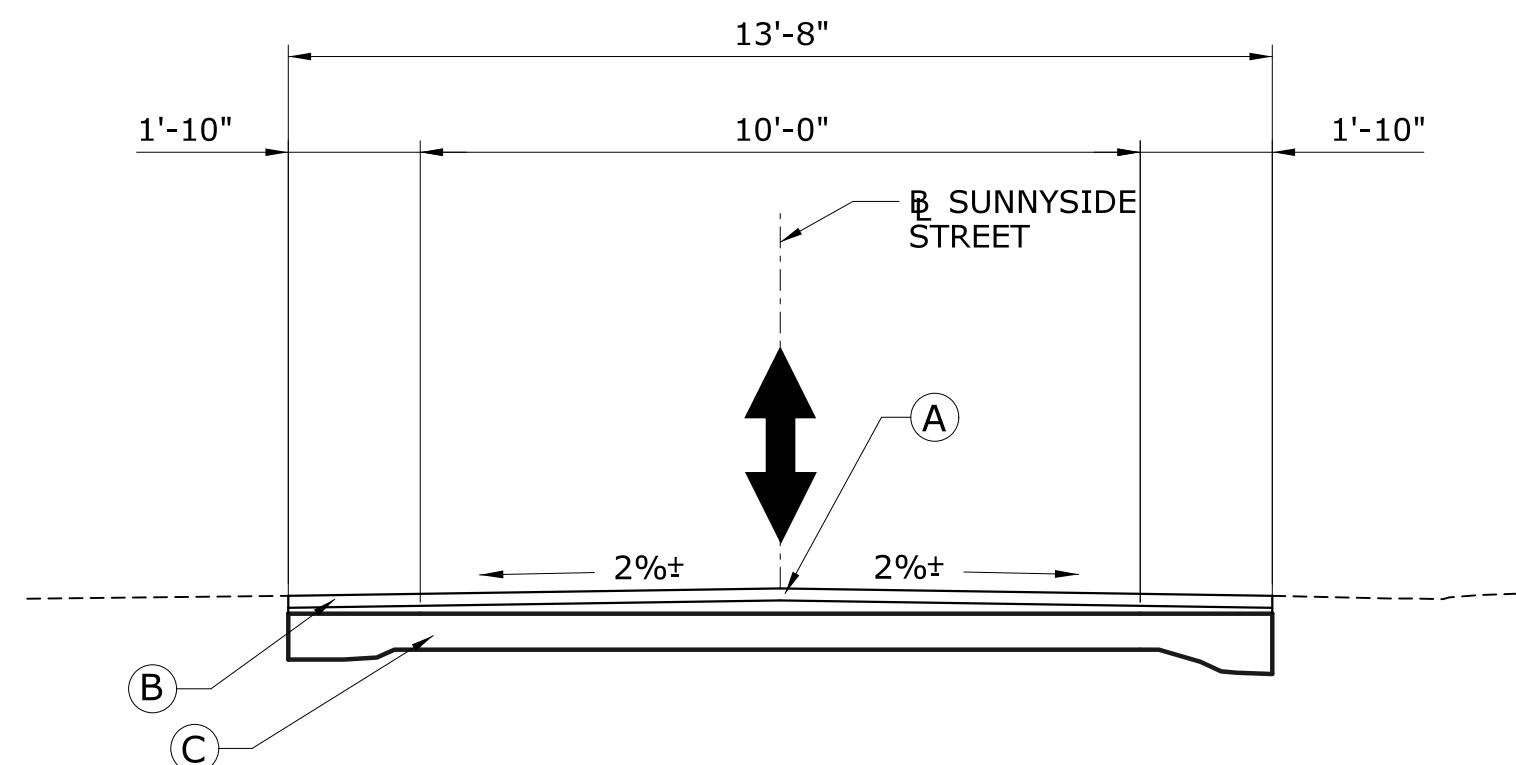
APPROXIMATE GROUND EAST APPROACH

**TYPICAL SECTION MILL AND OVERLAY LIMITS**

SCALE: 3/8" = 1'-0"  
 LIMITS OF MILLING: STA. 0+26.35 TO STA. 0+93.50 AND STA. 2+89.00 TO STA. 3+39.00  
 MILLING THICKNESS OF 3" WITH AN OVERLAY THICKNESS OF 3" TO MATCH EXISTING.  
 \*CROSS SLOPE TO MATCH EXISTING

**LEGEND**

- (A) POINT OF APPLICATION OF GRADE
- (B) 3" MIN HMA TRAFFIC LEVEL 2 (2" HMA S0.5 AND 1" HMA S0.25)
- (C) HIGH EARLY STRENGTH CONCRETE (CLOSURE POUR)

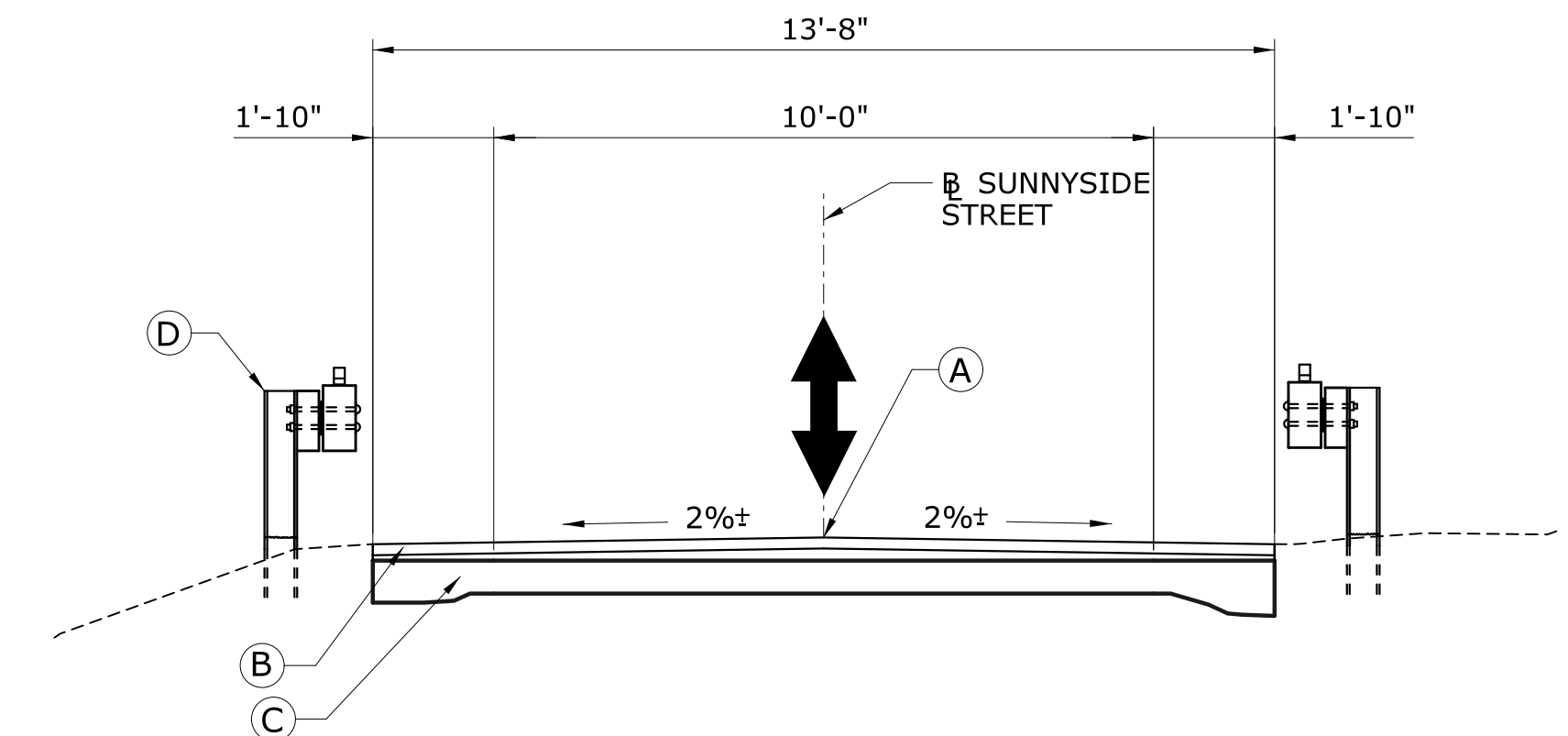


**LIMIT OF STRUCTURAL REPAIRS**  
**STA. 0+98.50 - STA. 1+00.50**

SCALE: 3/8" = 1'-0"

**LEGEND**

- (A) POINT OF APPLICATION OF GRADE
- (B) 3" MIN HMA TRAFFIC LEVEL 2 (2" HMA S0.5 AND 1" HMA S0.25)
- (C) HIGH EARLY STRENGTH CONCRETE (CLOSURE POUR)
- (D) STEEL-BACKED TIMBER GUIDERAIL - TYPE A (TYP.) (EAST APPROACH ONLY)



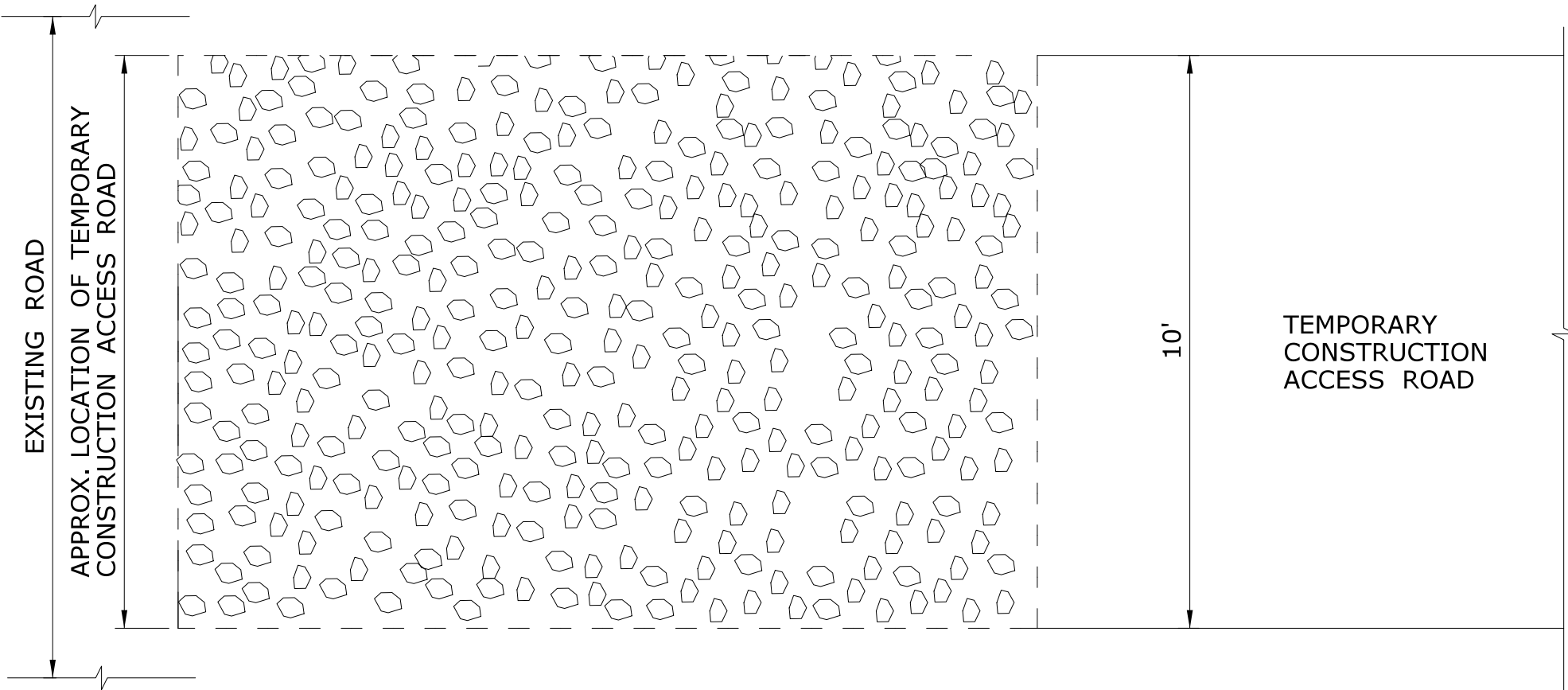
**LIMIT OF STRUCTURAL REPAIRS**  
**STA. 2+82.00 - STA. 2+84.00**

SCALE: 3/8" = 1'-0"

NO. 3 CRUSHED STONE  
 6" THICK (MIN.)

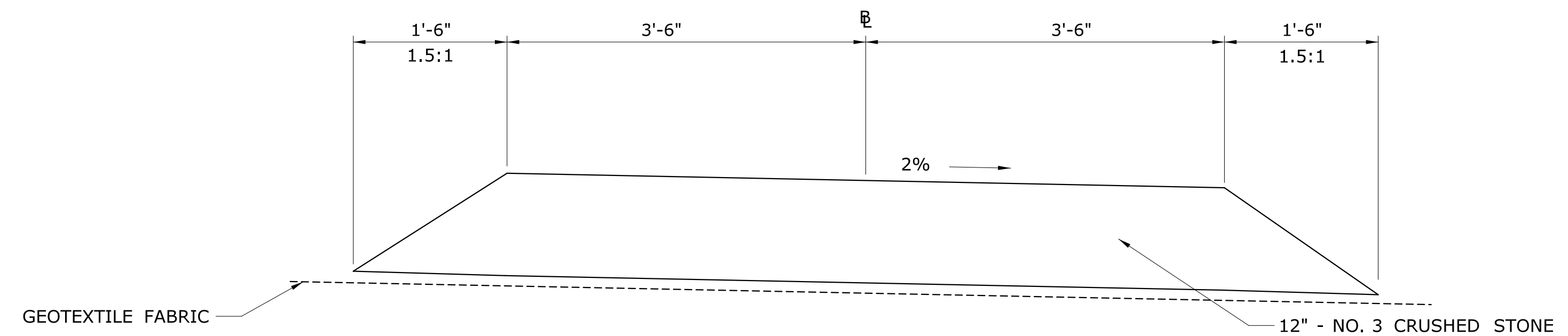
GEOTEXTILE FABRIC

**ANTI-TRACKING PAD**



**ANTI-TRACKING PAD**

SCALE: 3/8" = 1'-0"



**TYPICAL SECTION TEMPORARY CONSTRUCTION ACCESS ROAD**

SCALE: 1" = 1'-0"

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER:  
**E. LAPLANTE**  
 CHECKED BY:  
**R. MEARS**  
 SCALE AS NOTED

benesch

Filename: \$FILES

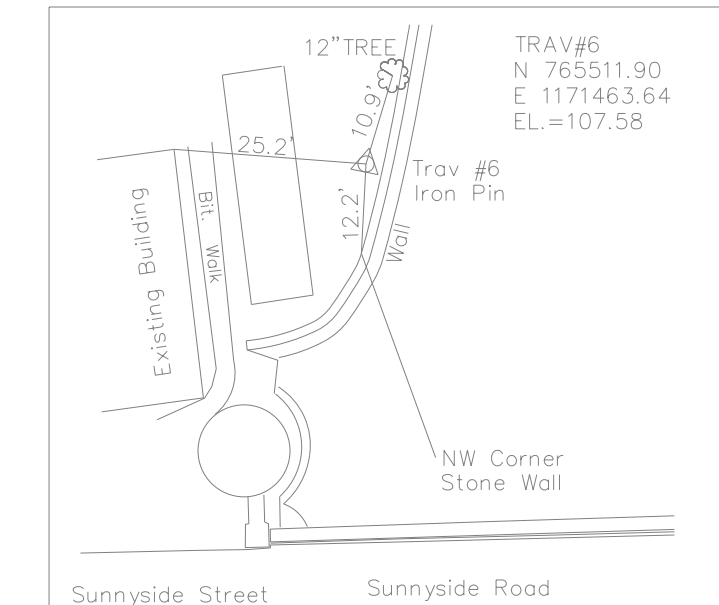
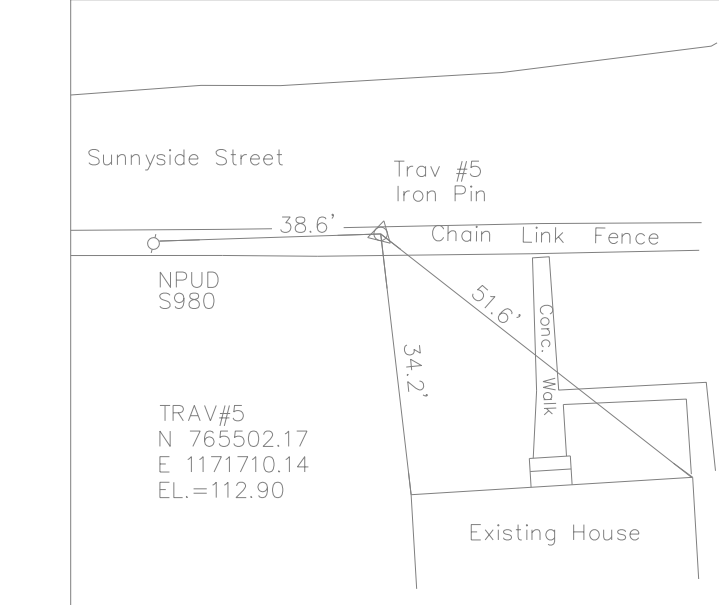
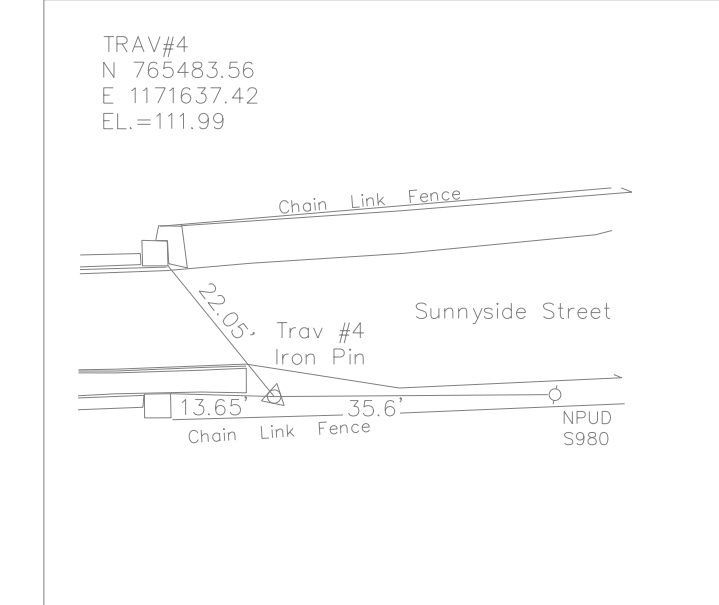
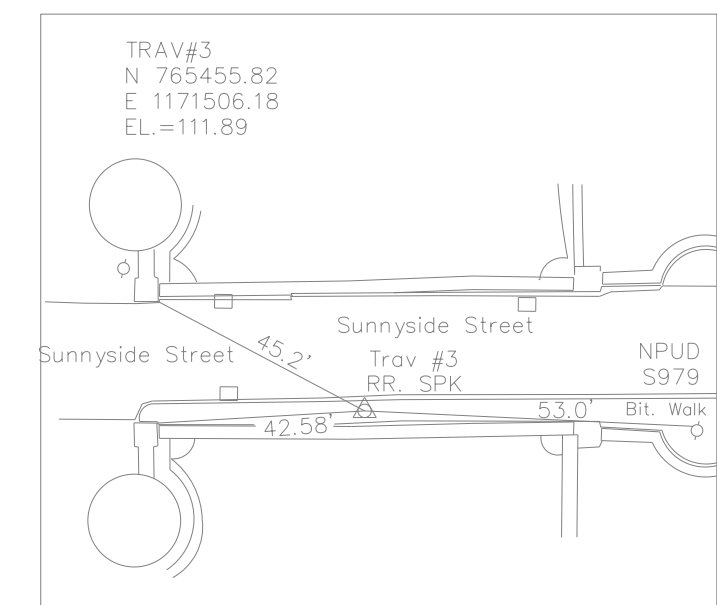
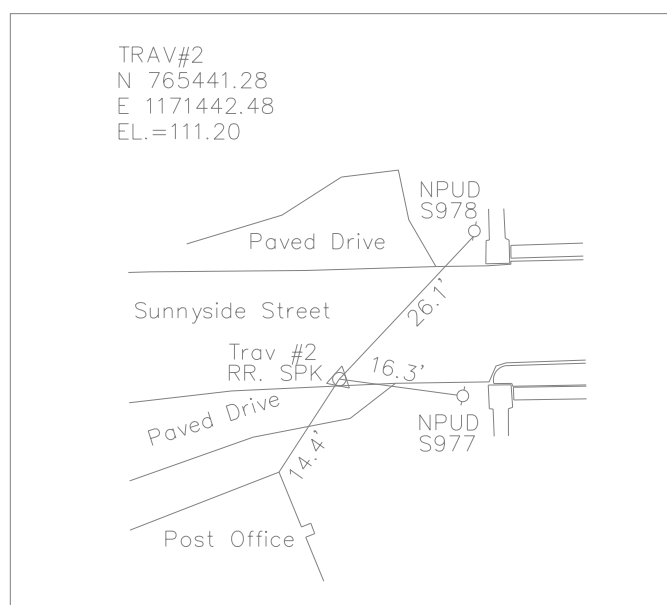
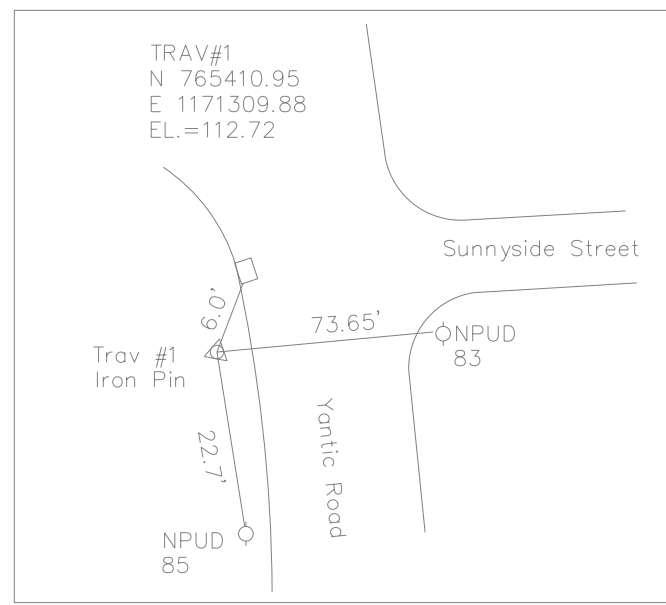
SIGNATURE/BLOCK:

Alfred Benesch & Company  
 90 National Drive  
 Glastonbury, CT

PROJECT TITLE:  
**REHABILITATION OF BR. #04746  
 SUNNYSIDE STREET OVER  
 YANTIC RIVER**

CITY:  
**NORWICH**  
 DRAWING TITLE:  
**TYPICAL SECTION  
 AND DETAILS**

PROJECT NO.  
**103-261**  
 DRAWING NO.  
**HWY-03**  
 SHEET NO.  
**3.3**



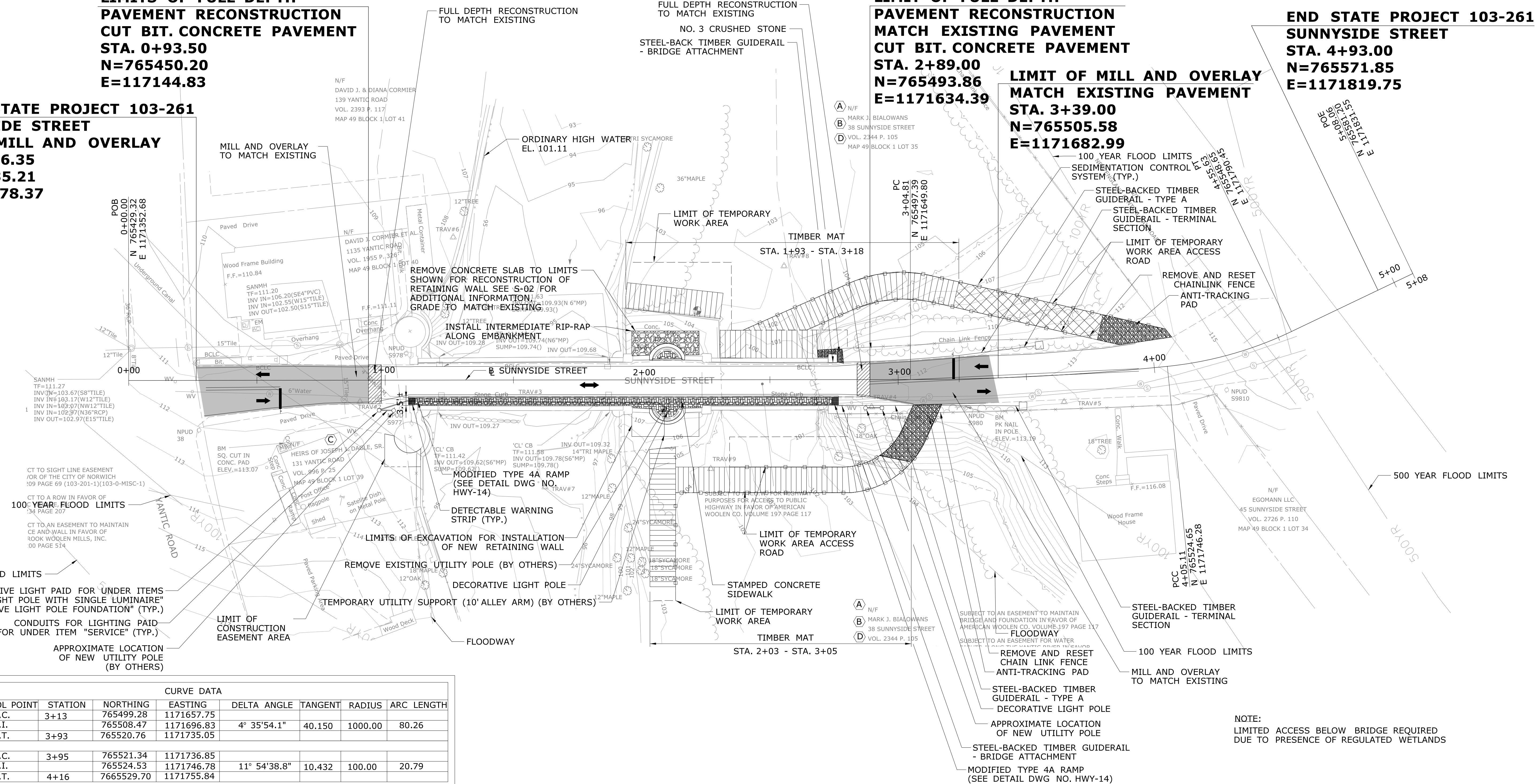
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SUNNYSIDE STREET  
LIMITS MILL AND OVERLAY  
STA. 0+26.35  
N=765435.21  
E=1171378.37**

**LIMITS OF FULL DEPTH  
PAVEMENT RECONSTRUCTION  
CUT BIT. CONCRETE PAVEMENT  
STA. 0+93.50  
N=765450.20  
E=117144.83**

**LIMIT OF FULL DEPTH  
PAVEMENT RECONSTRUCTION  
MATCH EXISTING PAVEMENT  
CUT BIT. CONCRETE PAVEMENT  
STA. 2+89.00  
N=765493.86  
E=1171634.39**

**LIMIT OF MILL AND OVERLAY  
MATCH EXISTING PAVEMENT  
STA. 3+39.00  
N=765505.58  
E=1171682.99**

**END STATE PROJECT 103-261  
SUNNYSIDE STREET  
STA. 4+93.00  
N=765571.85  
E=1171819.75**



CURVE DATA								
CURVE #	CONTROL POINT	STATION	NORTHING	EASTING	DELTA ANGLE	TANGENT	RADIUS	ARC LENGTH
C1	P.C.	3+13	765499.28	1171657.75	4° 35'54.1"	40.150	1000.00	80.26
	P.I.		765508.47	1171696.83				
	P.T.	3+93	765520.76	1171735.05				
C2	P.C.	3+95	765521.34	1171736.85	11° 54'38.8"	10.432	100.00	20.79
	P.I.		765524.53	1171746.78				
	P.T.	4+16	765529.70	1171755.84				

NOTE:  
LIMITED ACCESS BELOW BRIDGE REQUIRED  
DUE TO PRESENCE OF REGULATED WETLANDS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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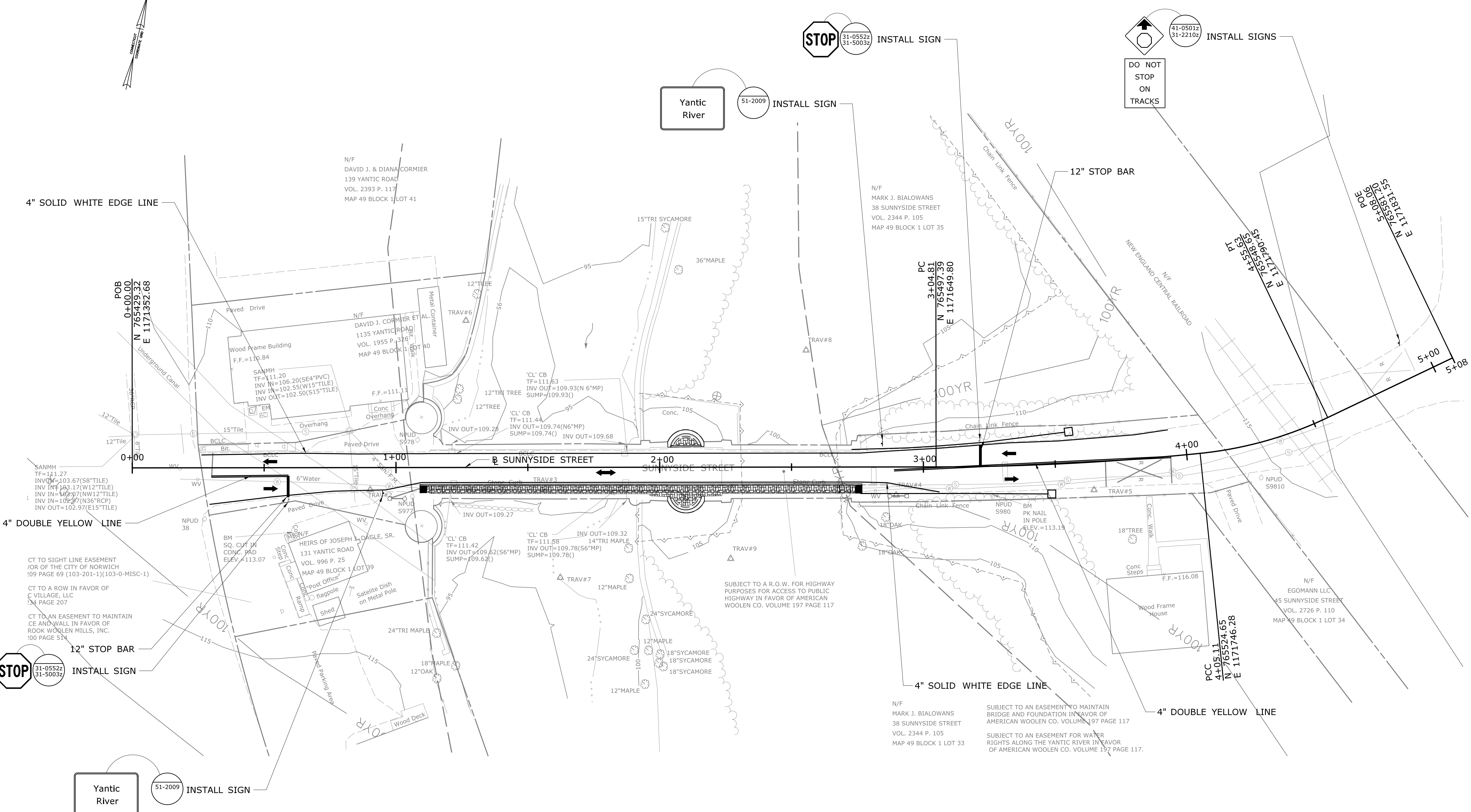
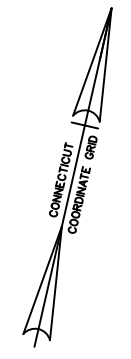
DESIGNER/DRAFTER:  
**E. LAPLANTE**  
CHECKED BY:  
**R. MEARS**  
SCALE IN FEET  
SCALE 1"=20'



SIGNATURE/  
BLOCK:  
Alfred Benesch &  
Company  
90 National Drive  
Glastonbury, CT

PROJECT TITLE:  
**REHABILITATION OF BR. #04746  
SUNNYSIDE STREET OVER  
YANTIC RIVER**

CITY:  
**NORWICH**  
DRAWING TITLE:  
**ROADWAY PLAN**  
PROJECT NO.  
**103-261**  
DRAWING NO.  
**HWY-04**  
SHEET NO.  
**3.4**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER:  
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**R. MEARS**  
SCALE IN FEET  
SCALE 1"=20'

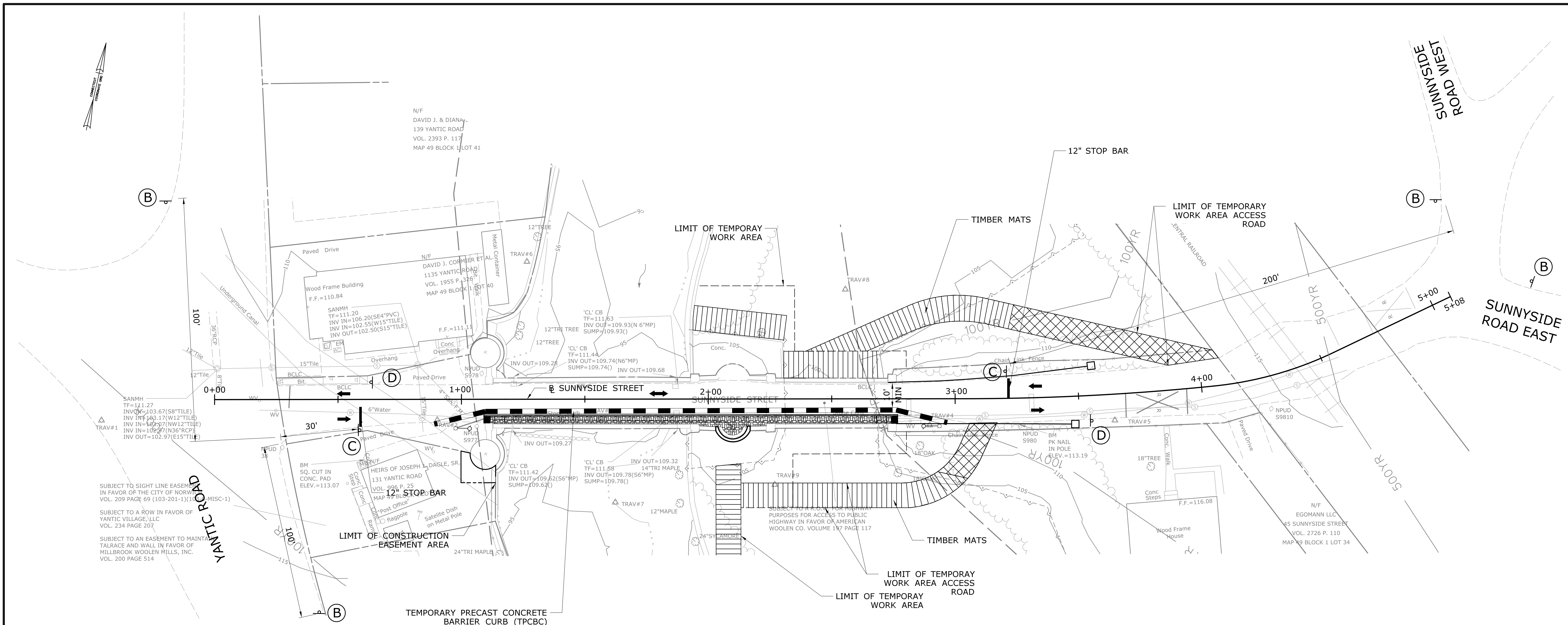


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Alfred Benesch & Company  
90 National Drive  
Glastonbury, CT

PROJECT TITLE:  
**REHABILITATION OF BR. #04746  
SUNNYSIDE STREET OVER  
YANTIC RIVER**

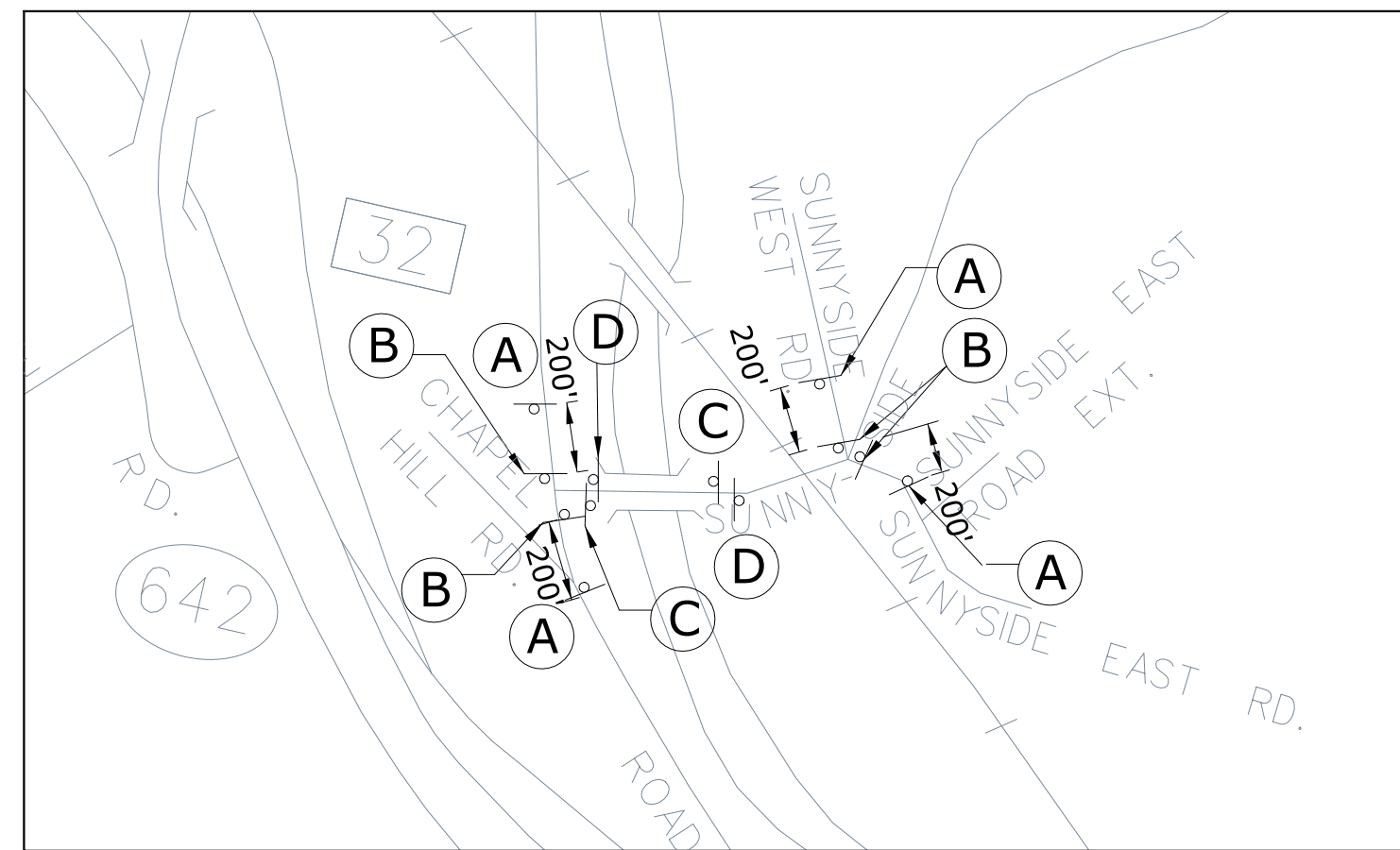
CITY:  
**NORWICH**  
DRAWING TITLE:  
**SIGNING AND PAVEMENT  
MARKING PLAN**

PROJECT NO.  
**103-261**  
DRAWING NO.  
**HWY-05**  
SHEET NO.  
**3.5**



**M&PT STAGE 1 & 3**

SCALE: 1"=20'



**SIGN LAYOUT**

NOT TO SCALE



**NOTES:**

1. ALL SIGN LOCATIONS INDICATED ON THE PLAN ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENGINEER.
2. CONSTRUCTION SIGNS SHALL BE REMOVED WHEN THEY NO LONGER APPLY.
3. EXISTING SIGNS WHICH CONFLICT WITH THE CONSTRUCTION SIGNS SHALL BE COVERED, REMOVED, OR REVISED AS DIRECTED BY THE ENGINEER. ALL OTHER SIGNS SHALL REMAIN.
4. SIGNS SHOWN ON THE PLAN ARE TO BE PAID FOR UNDER ITEM NO. 1220027 - "CONSTRUCTION SIGNS".
5. INSTALL POST-MOUNTED SIGNS IN ACCORDANCE WITH STANDARD SHEETS TR 1208-01 AND TR 1208-02.
6. SEE DWG S-08 THROUGH S-10, SUBSET 04 FOR STAGE CONSTRUCTION NOTES.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: \$DATES

DESIGNER/DRAFTER:  
**E. LAPLANTE**

CHECKED BY:  
**R. MEARS**

SCALE IN FEET

SCALE 1"=20'

Alfred Benesch & Company  
90 National Drive  
Glastonbury, CT

Professional Engineer License No. 25441

Filename: \$FILES

SIGNATURE/BLOCK:

PROJECT TITLE:  
**REHABILITATION OF BR. #04746 SUNNYSIDE STREET OVER YANTIC RIVER**

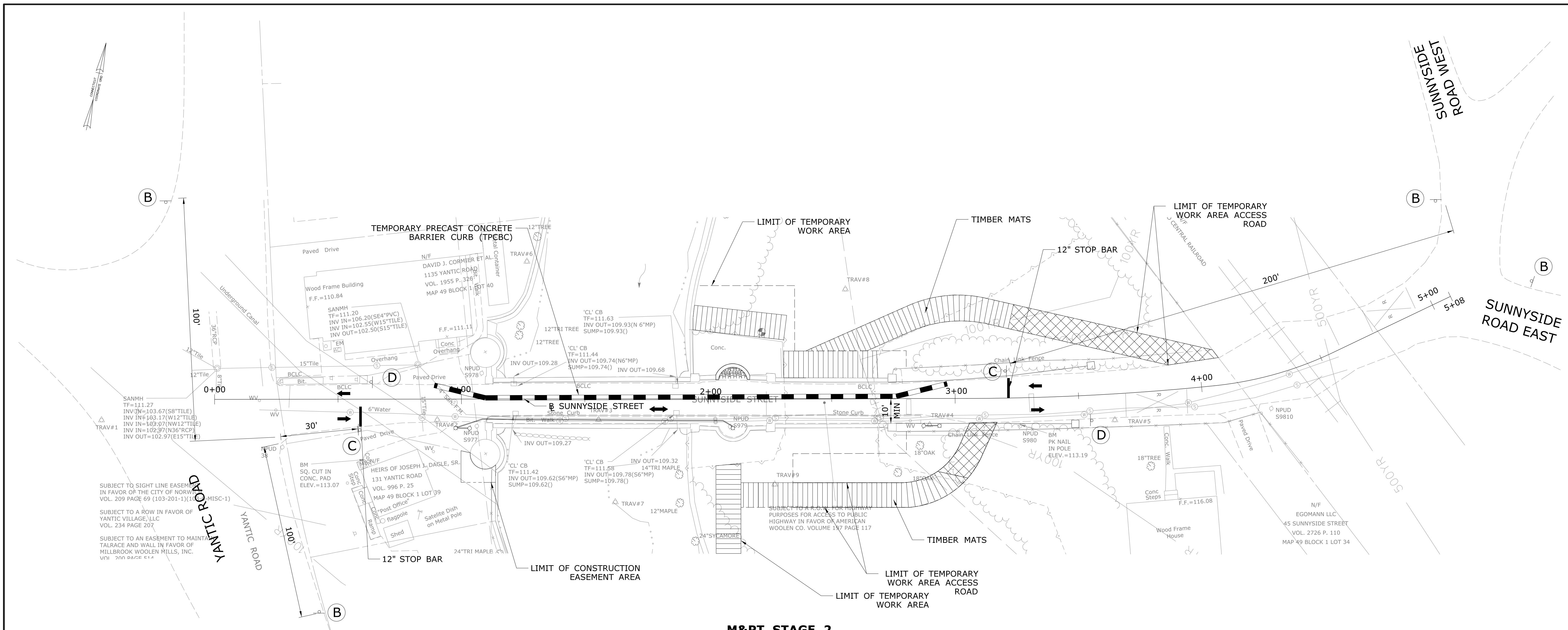
CITY:  
**NORWICH**

DRAWING TITLE:  
**M&PT STAGE 1 AND 3**

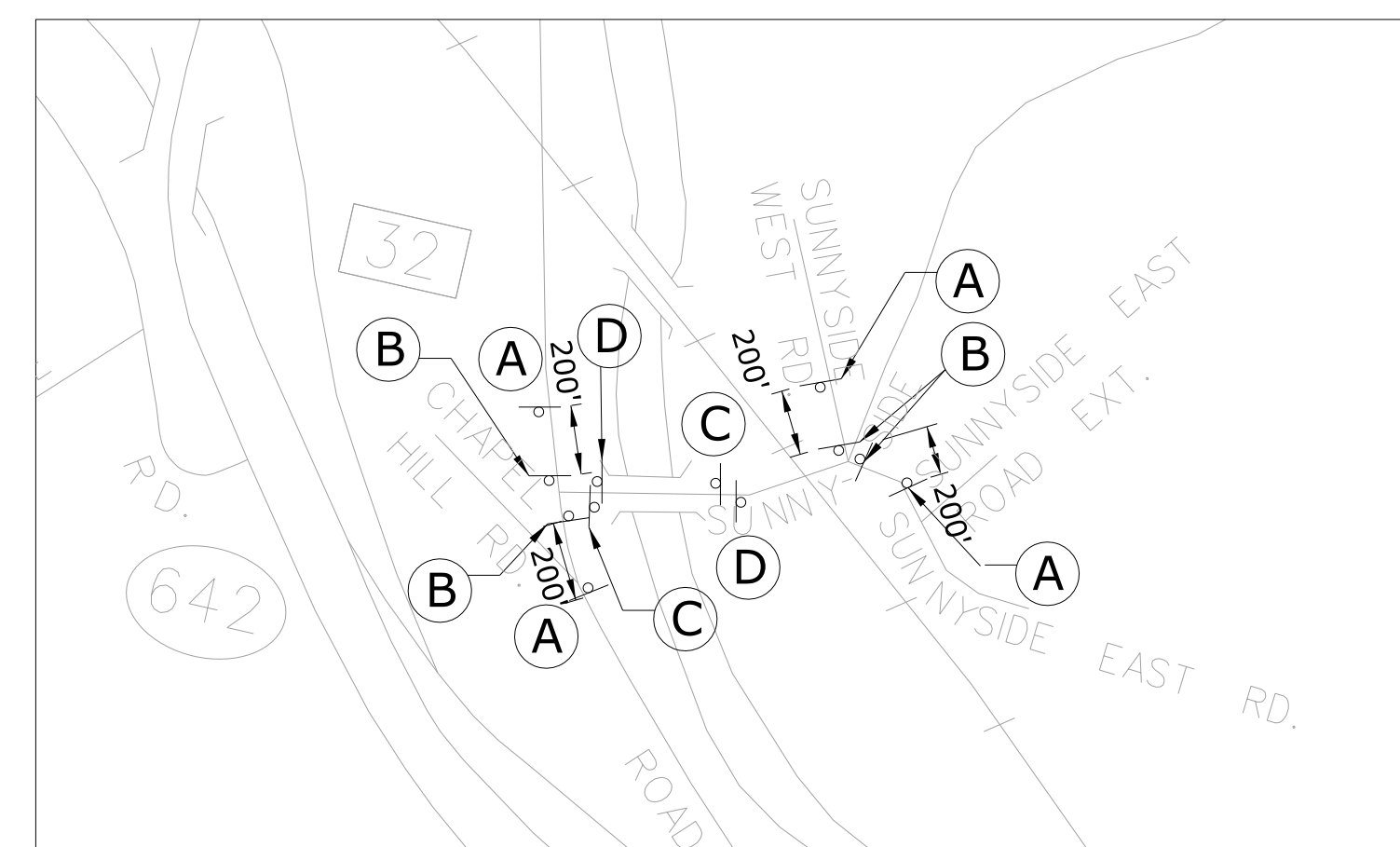
PROJECT NO.  
**103-261**

DRAWING NO.  
**HWY-06**

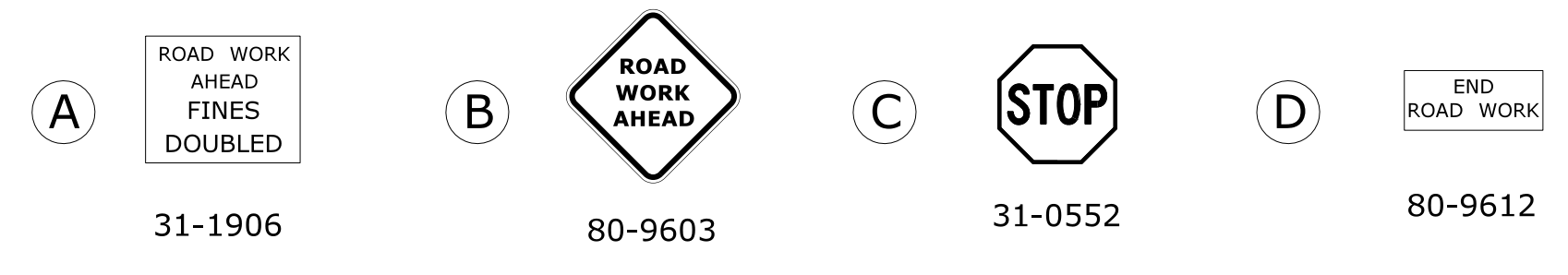
SHEET NO.  
**3.6**



**M&PT STAGE 2**  
SCALE: 1"=20'



**SIGN LAYOUT**  
NOT TO SCALE



- NOTES:**
- ALL SIGN LOCATIONS INDICATED ON THE PLAN ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENGINEER.
  - CONSTRUCTION SIGNS SHALL BE REMOVED WHEN THEY NO LONGER APPLY.
  - EXISTING SIGNS WHICH CONFLICT WITH THE CONSTRUCTION SIGNS SHALL BE COVERED, REMOVED, OR REVISED AS DIRECTED BY THE ENGINEER. ALL OTHER SIGNS SHALL REMAIN.
  - SIGNS SHOWN ON THE PLAN ARE TO BE PAID FOR UNDER ITEM NO. 1220027 - "CONSTRUCTION SIGNS".
  - INSTALL POST-MOUNTED SIGNS IN ACCORDANCE WITH STANDARD SHEETS TR\_1208-01 AND TR\_1208-02.
  - SEE DWG S-08 THROUGH S-10, SUBSET 04 FOR STAGE CONSTRUCTION NOTES.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER:  
**E. LAPLANTE**  
CHECKED BY:  
**R. MEARS**  
SCALE IN FEET  
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SCALE 1"=20'

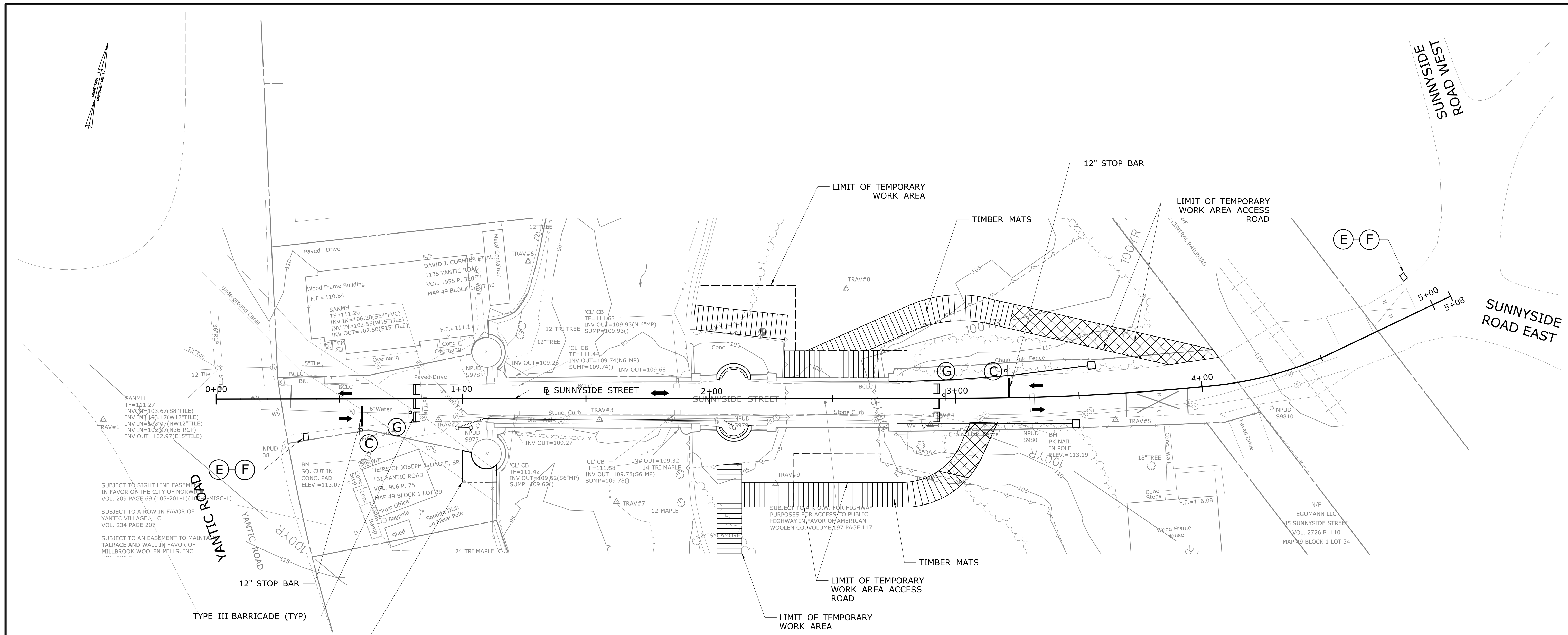


SIGNATURE/  
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Alfred Benesch &  
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Glastonbury, CT

PROJECT TITLE:  
**REHABILITATION OF BR. #04746  
SUNNYSIDE STREET OVER  
YANTIC RIVER**

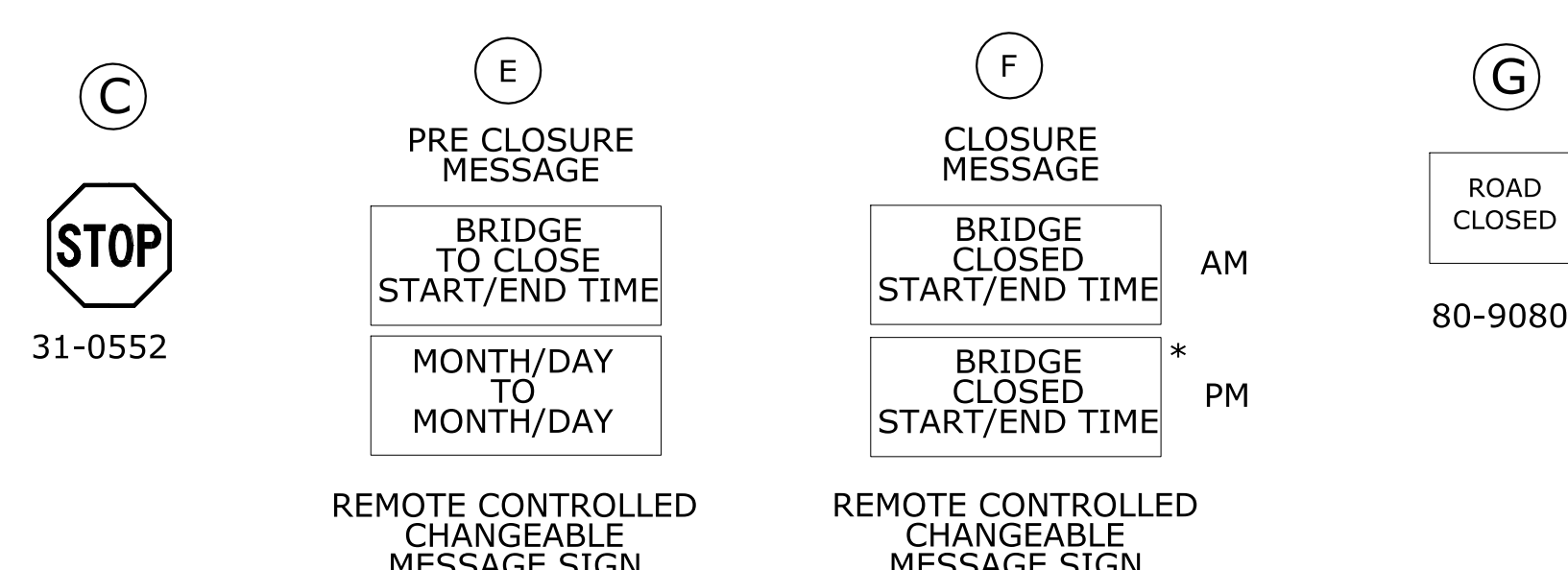
CITY:  
**NORWICH**  
DRAWING TITLE:  
**M&PT STAGE 2**

PROJECT NO.  
**103-261**  
DRAWING NO.  
**HWY-07**  
SHEET NO.  
**3.7**



**BRIDGE CLOSURE MP&T**

SCALE: 1"=20'



\* 2ND MESSAGE TO BE USED IF 2 SEPARATE CLOSURES ARE PLANNED FOR ONE DAY

**NOTES:**

1. ALL SIGN LOCATIONS INDICATED ON THE PLAN ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD AS DIRECTED BY THE ENGINEER.
2. CONSTRUCTION SIGNS SHALL BE REMOVED WHEN THEY NO LONGER APPLY.
3. EXISTING SIGNS WHICH CONFLICT WITH THE CONSTRUCTION SIGNS SHALL BE COVERED, REMOVED, OR REVISED AS DIRECTED BY THE ENGINEER. ALL OTHER SIGNS SHALL REMAIN.
4. SIGNS SHOWN ON THE PLAN ARE TO BE PAID FOR UNDER ITEM NO. 1220027 - "CONSTRUCTION SIGNS".
5. INSTALL POST-MOUNTED SIGNS IN ACCORDANCE WITH STANDARD SHEETS TR\_1208-01 AND TR\_1208-02.

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DESIGNER/DRAFTER:  
**E. LAPLANTE**

CHECKED BY:  
**R. MEARS**

SCALE IN FEET  
0 20 40  
SCALE 1"=20'

Filename: \$FILES

SIGNATURE/  
BLOCK:

Alfred Benesch & Company  
90 National Drive  
Glastonbury, CT

PROJECT TITLE:  
**REHABILITATION OF BR. #04746  
SUNNYSIDE STREET OVER  
YANTIC RIVER**

CITY:  
**NORWICH**

DRAWING TITLE:  
**ROADWAY CLOSURE  
SIGNAGE PLAN**

PROJECT NO.  
**103-261**

DRAWING NO.  
**HWY-08**

SHEET NO.  
**3.8**



R1 - SERIES	R2 - SERIES	R3 - SERIES	R4 - SERIES	R5 - SERIES																																																																																															
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★ SIGN ADDED FOR CONTRACT NO. 103-0261

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 BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERRECTED 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 SHALL BE 4 LBS./FT.
- 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.

REV.	DATE	REVISION DESCRIPTION
7	6-2017	REVISED POST REQUIREMENTS.
6	12-2016	REMOVED HANDICAPPED SIGN DETAIL.
5	6-2015	REVISED DRAWING NO.
4	5-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.
3	6-2012	REVISED NOTE #1 TO REFERENCE "O.S.T.A."
2	6-2010	INCLUDED SIGNS TO MEET 2009 MUTCD REQUIREMENTS.
1	1-2010	REVISED SHEETING FROM TYPE I TO III.

METRIC CONVERSION CHART (1" = 25mm)					
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

DESIGNER/DRAFTER: A. S. MERMELSTEIN  
 CHECKED BY: B. A. SCHILLING  
 Plotted: 7/26/2018  
 Filename: CTDOT\_TRAFFIC\_GS.dgn

**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**

SIGNATURE/BLOCK: Alfred Benesch & Company  
 90 National Drive  
 Glastonbury, CT

PROJECT TITLE:  
**REHABILITATION OF BR. #04746 SUNNYSIDE STREET OVER YANTIC RIVER**

CITY: **NORWICH**  
 DRAWING TITLE:  
**SIGN FACE SHEET ALUMINUM R-SERIES SIGNS TYPICAL DETAILS**

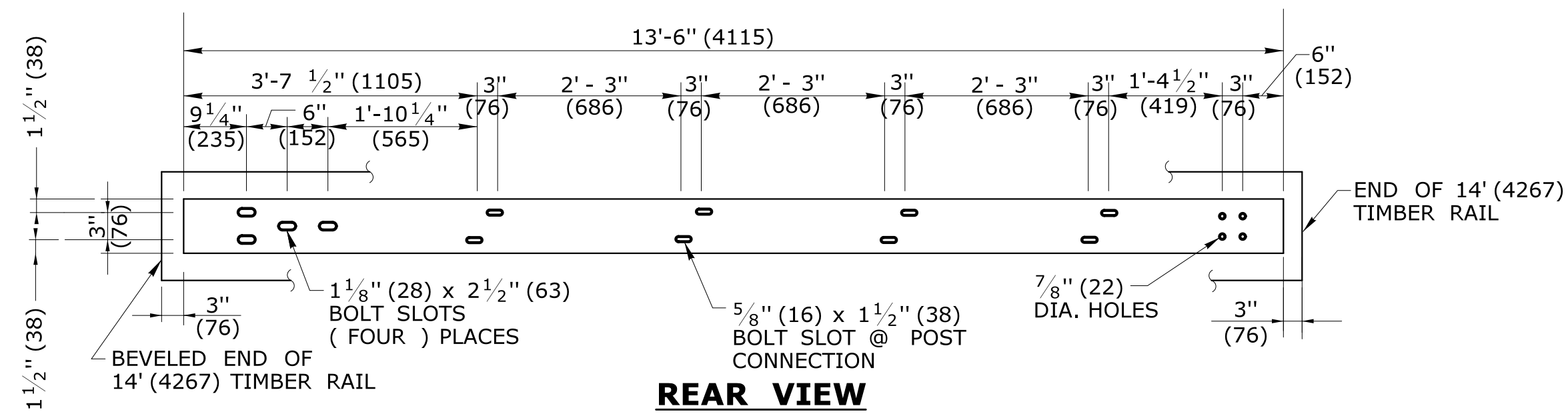
PROJECT NO. **103-261**  
 DRAWING NO. **HWY-09**  
 SHEET NO. **3.9**

S - SERIES	W1 - SERIES					W2 - SERIES					W3 - SERIES					W4 - SERIES					W5 - SERIES					W6 - SERIES					W7 - SERIES					W8 - SERIES					W9 - SERIES																																		
S1-1 * 	W1-1L 		W1-1R 			(L)		(R)			W2-1 		W3-1 OCTAGON - RED 			W4-1 (L)		(R)			W5-1 ROAD NARROWS 					W6-1 		W6-2 			W7-1 					W8-5 					W9-1 LEFT LANE ENDS (L)		RIGHT LANE ENDS (R)																																
LEGEND - BLACK BACKGROUND - FLUORESCENT YELLOW GREEN	AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.					AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.					AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.					AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.					AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.					AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.					AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.					AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.					AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.																																		
6.75 36 41-2112 1 .080	6.25 30 41-4006 1 .080 6.25 30 41-4005 1 .080 9.00 36 41-4141L 1 .080 9.00 36 41-4141R 1 .080					6.25 30 41-4226 1 .080 6.25 30 41-0501 1 .080 9.00 36 41-4448L 1 .080 9.00 36 41-4448R 1 .080					9.00 36 41-4402 1 .080 9.00 36 41-4403 1 .080 16.00 48 41-4404 2 .100					9.00 36 41-4449L 1 .080 9.00 36 41-4449R 1 .080 16.00 48 41-4452L 2 .100 16.00 48 41-4452R 2 .100					16.00 48 41-4335 1 .080 6.25 30 41-4506 1 .080 6.25 30 41-4519 1 .080 9.00 36 41-4443L 1 .080 9.00 36 41-4443R 1 .080					16.00 48 41-4056 2 .100 16.00 48 41-4055 2 .100 16.00 48 41-4160 1 .080 16.00 48 41-4055 2 .100 16.00 48 41-4061R 2 .100 16.00 48 41-4246 2 .100 16.00 48 41-0502 2 .100 16.00 48 41-4459R 2 .100					6.25 30 41-4028 1 .080 6.25 30 41-4027 1 .080 9.00 36 41-4139L 1 .080 9.00 36 41-4040R 1 .080 9.00 36 41-4040L 1 .080 9.00 36 41-4083 1 .080 9.00 36 41-4083 1 .080 9.00 36 41-4088L 2 .100 9.00 36 41-4088R 2 .100 9.00 36 41-4087R 2 .100 9.00 36 41-4225 1 .080 6.25 30 41-0504 1 .080 6.25 30 41-0505 2 .100 6.25 30 41-0506 2 .100 9.00 36 41-4442L 1 .080 9.00 36 41-4441R 1 .080 9.00 36 41-4329 1 .080 16.00 48 41-4331 2 .100					6.25 30 41-4225 1 .080 6.25 30 41-0504 1 .080 6.25 30 41-0505 2 .100 6.25 30 41-0506 2 .100 9.00 36 41-4442L 1 .080 9.00 36 41-4441R 1 .080 9.00 36 41-4329 1 .080 16.00 48 41-4331 2 .100					9.00 36 41-4442L 1 .080 9.00 36 41-4441R 1 .080 9.00 36 41-4329 1 .080 16.00 48 41-4331 2 .100					9.00 36 41-4442L 1 .080 9.00 36 41-4441R 1 .080 9.00 36 41-4329 1 .080 16.00 48 41-4331 2 .100					9.00 36 41-4442L 1 .080 9.00 36 41-4441R 1 .080 9.00 36 41-4329 1 .080 16.00 48 41-4331 2 .100					9.00 36 41-4442L 1 .080 9.00 36 41-4441R 1 .080 9.00 36 41-4329 1 .080 16.00 48 41-4331 2 .100					9.00 36 41-4442L 1 .080 9.00 36 41-4441R 1 .080 9.00 36 41-4329 1 .080 16.00 48 41-4331 2 .100					9.00 36 41-4442L 1 .080 9.00 36 41-4441R 1 .080 9.00 36 41-4329 1 .080 16.00 48 41-4331 2 .100					9.00 36 41-4442L 1 .080 9.00 36 41-4441R 1 .080 9.00 36 41-4329 1 .080 16.00 48 41-4331 2 .100				

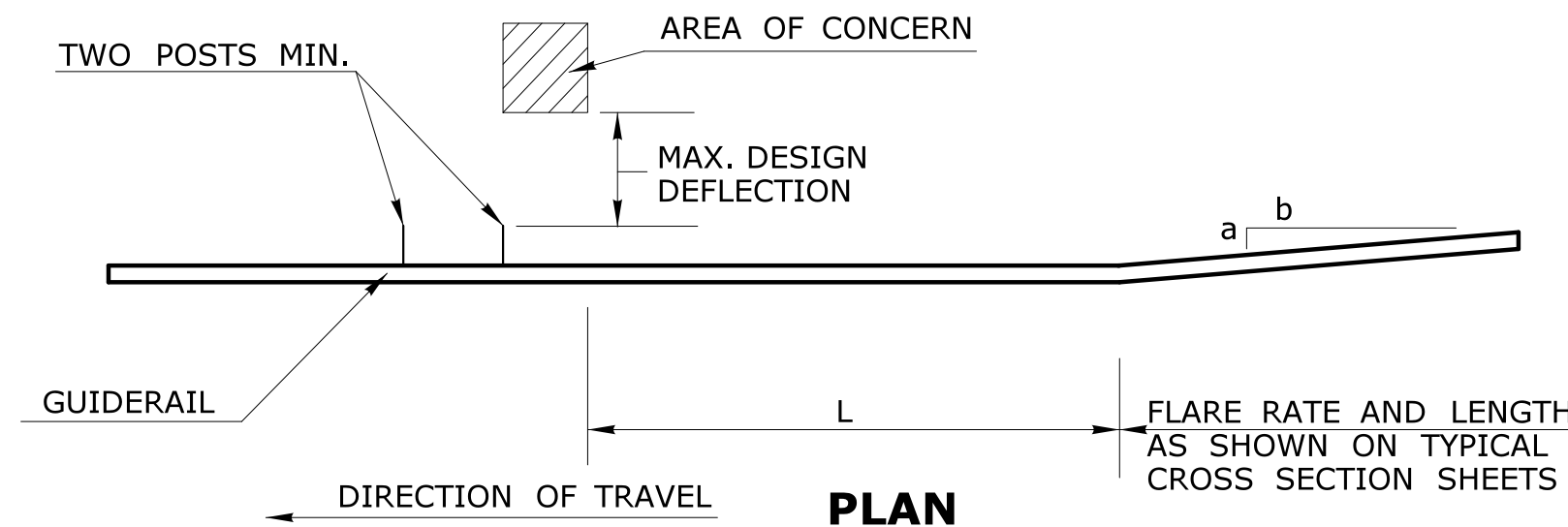
W10 - SERIES					W11 - SERIES					W12 - SERIES					W13 - SERIES					W16 - SERIES																																		
W10-1 					W11-2 					W12-1 					W13-1 					W16-2aP 41-6130 000 FT 41-6136 000 FT 41-6134 0000 FT (SUBPLATE) USE AT ADVANCE SIGN LOCATION					W16-7PL 					W16-7PR 					W16-9P AHEAD (SUBPLATE) USE AT ADVANCE SIGN LOCATION																			
AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.					AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.					AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.					AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.					AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.					AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.					AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.					AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.					AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.					AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.					AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK.				
7.07 36 41-2201 1 .080					6.25 30 41-4810 1 .080 9.00 36 41-4811 1 .080 16.00 48 41-4812 2 .100					6.25 30 41-4213 1 .080 9.00 36 41-4215 1 .080 16.00 48 41-4214 2 .100					2.25 18X18 41-5568 .080 4.00 24X24 41-5569 .080 6.25 30X30 41-5573 .080 16.00 48X48 41-5572 .100					2.00 24X12 41-6130 .080 3.75 30X18 41-6136 .080 7.00 42X24 41-6134 .100					2.00 24X12 41-2607 .080 3.75 30X18 41-2608 .080					2.00 24X12 41-2609 .080 3.75 30X18 41-2610 .080					2.00 24X12 41-6125 .080 3.75 30X18 41-6112 .080 6.00 36X24 41-6116 .080 12.00 48X36 41-6115 .100																			

- NOTES:
- FOR METRIC SEE CONVERSION CHART.
  - 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 ERECTED 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".
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- COLORS:
- BACKGROUND - YELLOW - EXCEPT AS NOTED.  
LEGEND - BLACK - EXCEPT AS NOTED.  
ALL SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING EXCEPT AS NOTED BY \*.  
\* SIGNS TO USE TYPE IX RETROREFLECTIVE SHEETING.

<b>REVISIONS</b> <table border="1"> <tr> <th>REV.</th> <th>DATE</th> <th>REVISION DESCRIPTION</th> </tr> <tr> <td>5</td> <td>6-2017</td> <td>REVISED POST REQUIREMENTS.</td> </tr> <tr> <td>4</td> <td>6-2015</td> <td>REVISED DRAWING NO.</td> </tr> <tr> <td>3</td> <td>5-2015</td> <td>UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.</td> </tr> <tr> <td>2</td> <td>11-2013</td> <td>UPDATED PER MUTCD.</td> </tr> <tr> <td>1</td> <td>1-2010</td> <td>REVISED SHEETING FROM TYPE I TO III.</td> </tr> </table>		REV.	DATE	REVISION DESCRIPTION	5	6-2017	REVISED POST REQUIREMENTS.	4	6-2015	REVISED DRAWING NO.	3	5-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.	2	11-2013	UPDATED PER MUTCD.	1	1-2010	REVISED SHEETING FROM TYPE I TO III.	<b>METRIC CONVERSION CHART (1" = 25mm)</b> <table border="1"> <tr> <th>ENGLISH</th> <th>METRIC</th> <th>ENGLISH</th> <th>METRIC</th> <th>ENGLISH</th> <th>METRIC</th> </tr> <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> </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	<b>STATE OF CONNECTICUT</b> <b>DEPARTMENT OF TRANSPORTATION</b> DESIGNER/DRAFTER: A. S. MERMELSTEIN CHECKED BY: B. A. SCHILLING Plotted: 7/26/2018 Filename: CTDOT_TRAFFIC_GS.dgn	SIGNATURE/ BLOCK:  Alfred Benesch & Company 90 National Drive Glastonbury, CT	PROJECT TITLE: <b>REHABILITATION OF BR. #04746</b> <b>SUNNYSIDE STREET OVER</b> <b>YANTIC RIVER</b>	CITY: <b>NORWICH</b> DRAWING TITLE: <b>SIGN FACE SHEET ALUMINUM</b> <b>S&amp;W SERIES SIGNS TYPICAL DETAILS</b>	PROJECT NO. <b>103-261</b> DRAWING NO. <b>HWY-10</b> SHEET NO. <b>3.10</b>
REV.	DATE	REVISION DESCRIPTION																																																											
5	6-2017	REVISED POST REQUIREMENTS.																																																											
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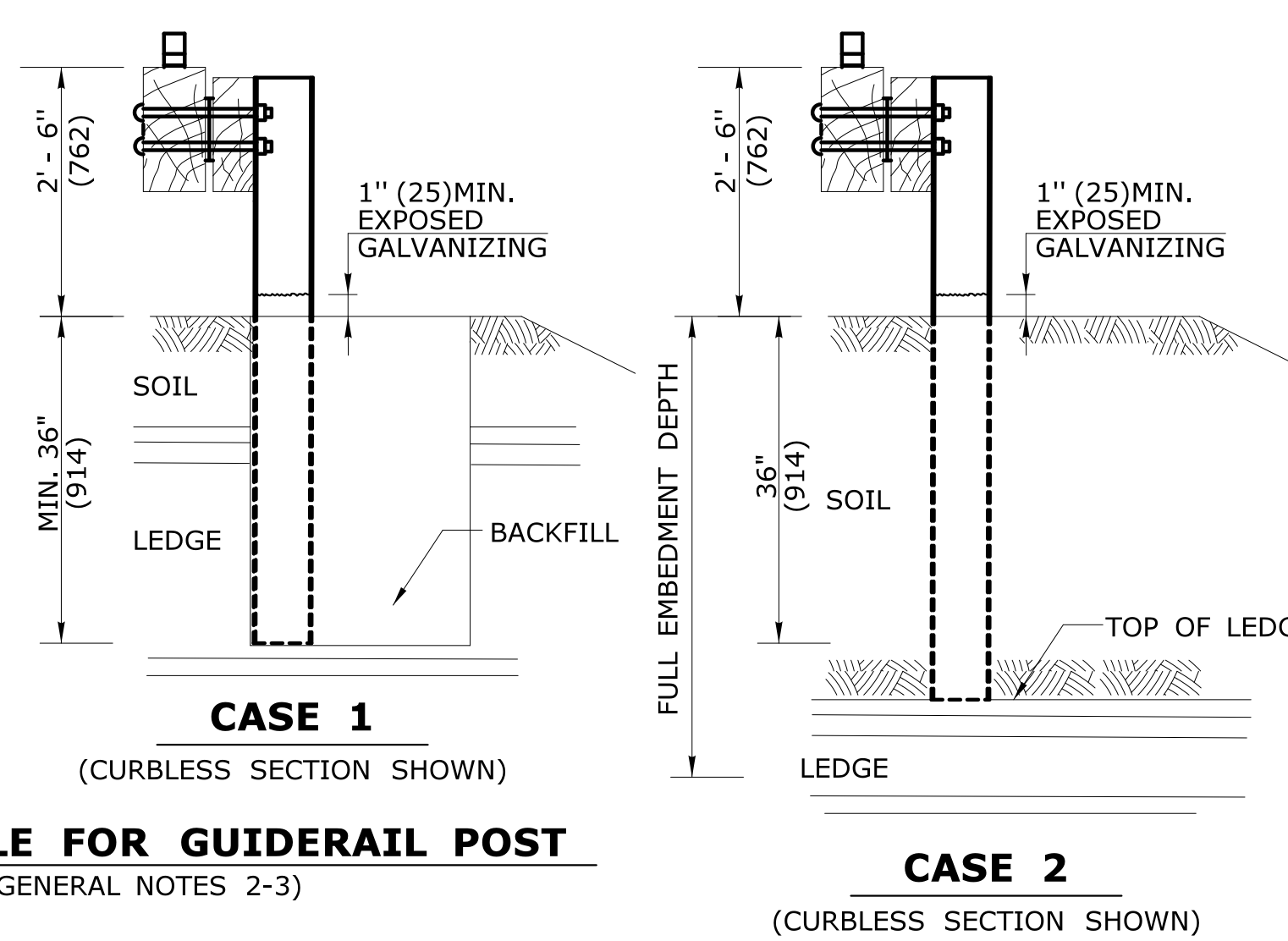
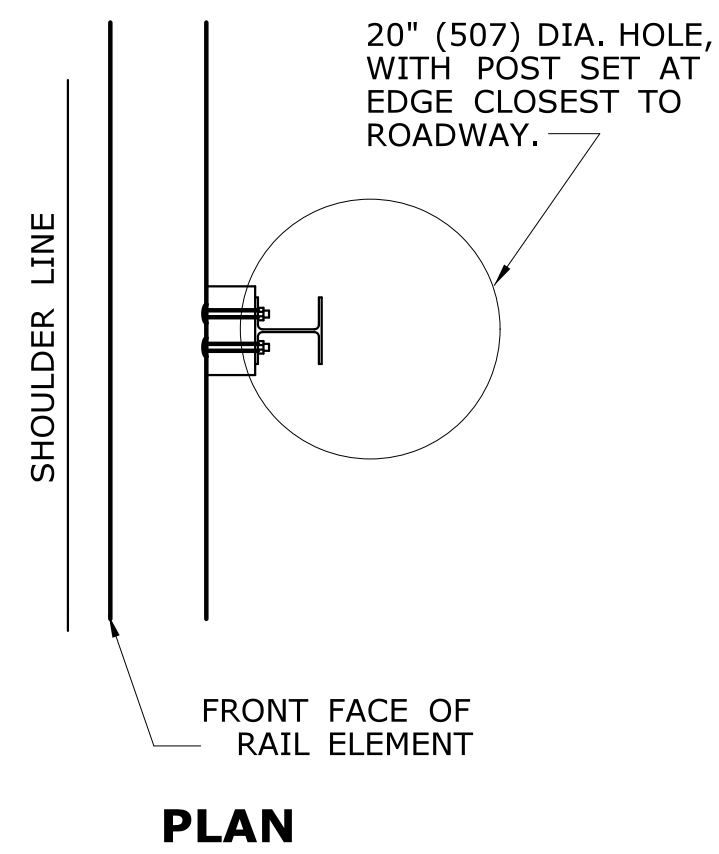


**STEEL TRANSITION RAIL  
6" x 3/8" x 13'-6" (152x9x4115)  
FOR LEADING END ATTACHMENT**



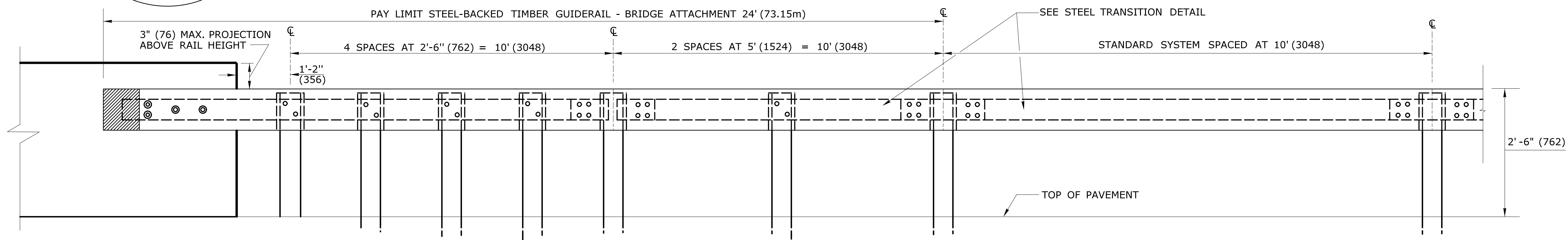
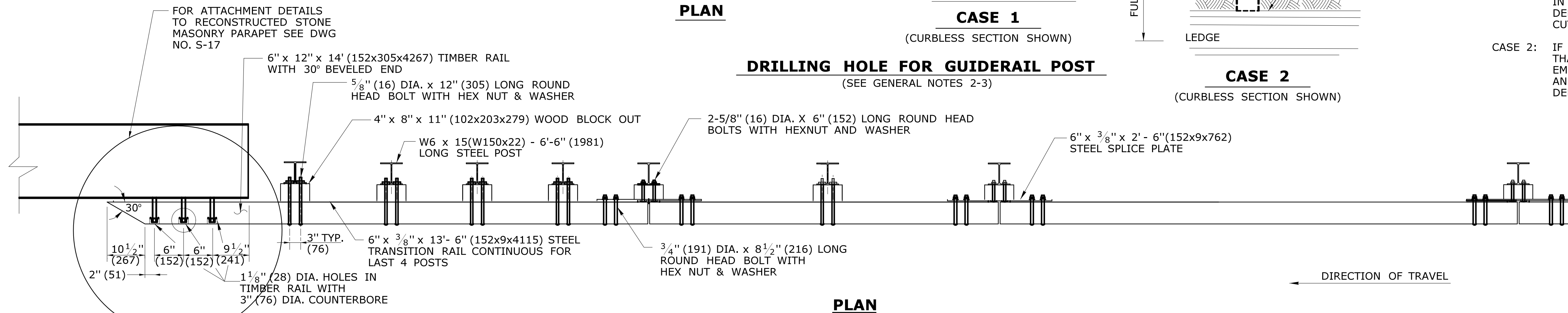
**GENERAL NOTES:**

- THIS DRAWING SHOWS LEADING END ATTACHMENT TO PROPOSED BARRIER/PARAPET. AT EXISTING PARAPETS ATTACH GUIDERAIL USING D.O.T. APPROVED CHEMICAL ANCHORS.
- PRIOR TO GUIDERAIL POST INSTALLATION THE CONTRACTOR SHALL INVESTIGATE POST LOCATIONS FOR THE PRESENCE AND DEPTH OF LEDGE.
- 20" (507) DIA. EXCAVATED HOLE SHALL BE BACKFILLED WITH SUITABLE MATERIAL, OR GRANULAR FILL COMPACTED IN 6" (150) LIFTS BEFORE DRIVING POST OR POSTS MAY BE SET IN EXCAVATED HOLE AND BACKFILLED WITH CONTROLLED LOW STRENGTH MATERIAL (CLSM).



- CASE 1:** IF LEDGE IS LOCATED WITHIN 36" (914) OF THE FINISHED GRADE AT THE POST LOCATION A 20" (507) DIAMETER HOLE SHALL BE DRILLED IN THE LEDGE TO THE MINIMUM EMBEDMENT DEPTH OF 36" (914) AND THE POST SHALL BE CUT AND DRIVEN TO ACHIEVE THIS DEPTH.
- CASE 2:** IF LEDGE IS LOCATED AT A DEPTH GREATER THAN 36" (914) BUT LESS THAN THE FULL EMBEDMENT DEPTH THE POST SHALL BE CUT AND DRIVEN TO ACHIEVE EMBEDMENT TO THE DEPTH OF THE TOP OF LEDGE.

**DRILLING HOLE FOR GUIDERAIL POST  
(SEE GENERAL NOTES 2-3)**



**ATTACHMENT AT LEADING END (VERTICAL SHAPE BARRIER SHOWN)  
(FRONT VIEW)  
(SEE GENERAL NOTES 1)**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
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DESIGNER/DRAFTER:  
**R. MEARS**  
CHECKED BY:  
**S. DRECHSLER**  
SCALE AS NOTED

benesch

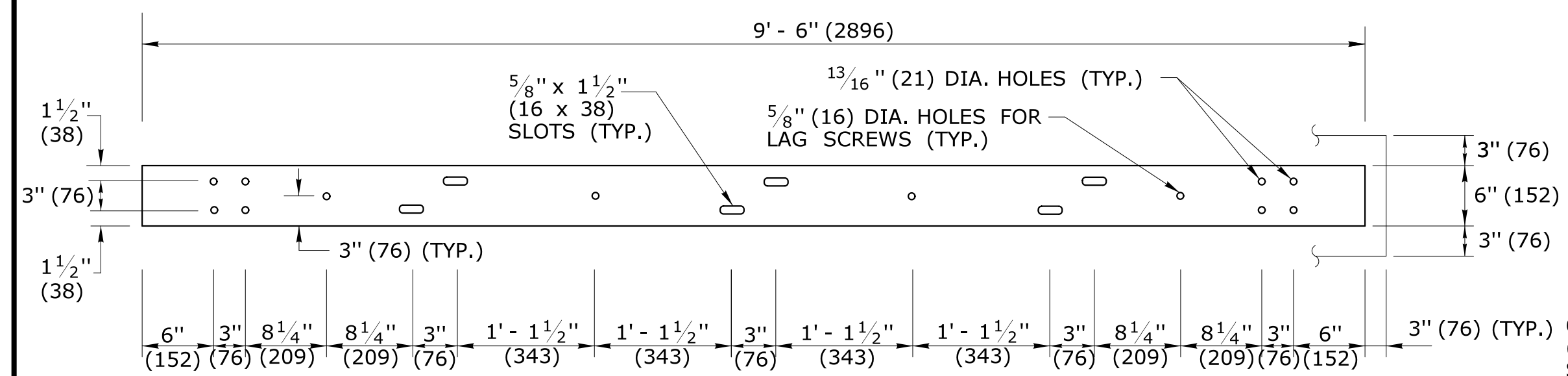
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SIGNATURE/BLOCK:  
Alfred Benesch & Company  
90 National Drive  
Glastonbury, CT

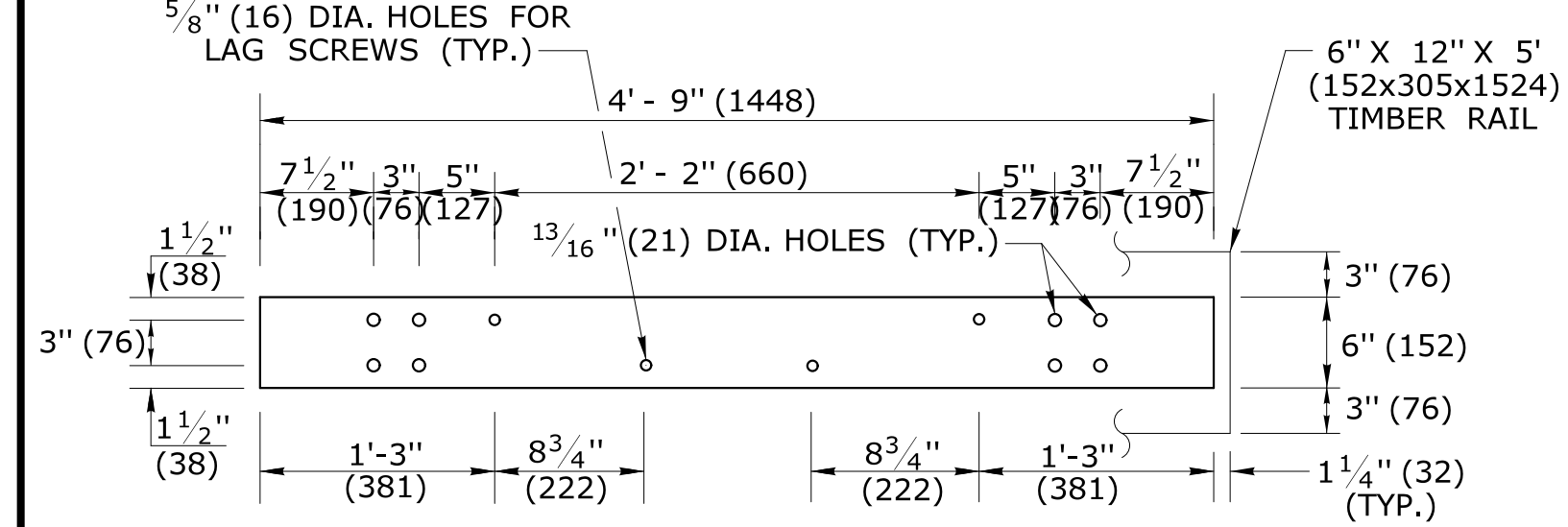
PROJECT TITLE:  
**REHABILITATION OF BR. #04746  
SUNNYSIDE STREET OVER  
YANTIC RIVER**

CITY:  
**NORWICH**  
DRAWING TITLE:  
**STEEL-BACKED  
TIMBER GUIDERAIL 1**

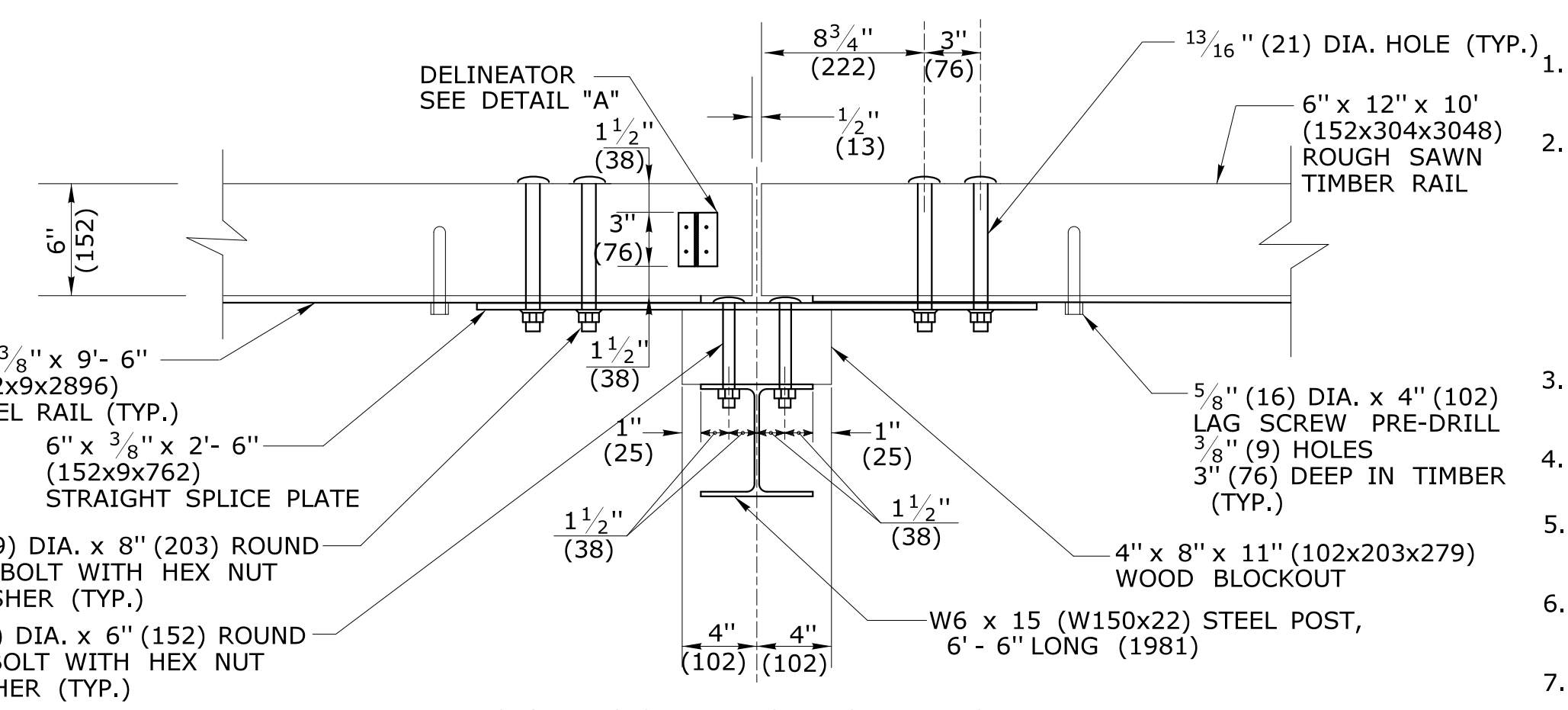
PROJECT NO.  
**103-261**  
DRAWING NO.  
**HWY-11**  
SHEET NO.  
**3.11**



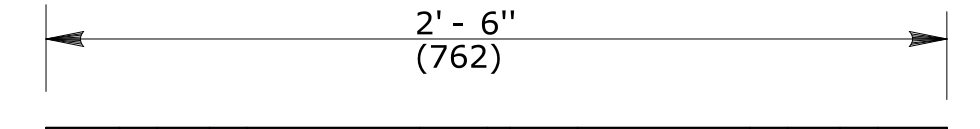
**(REAR VIEW)  
STANDARD STEEL RAIL DETAIL  
6" x 3/8" x 9'-6"  
(152x9x2896)**



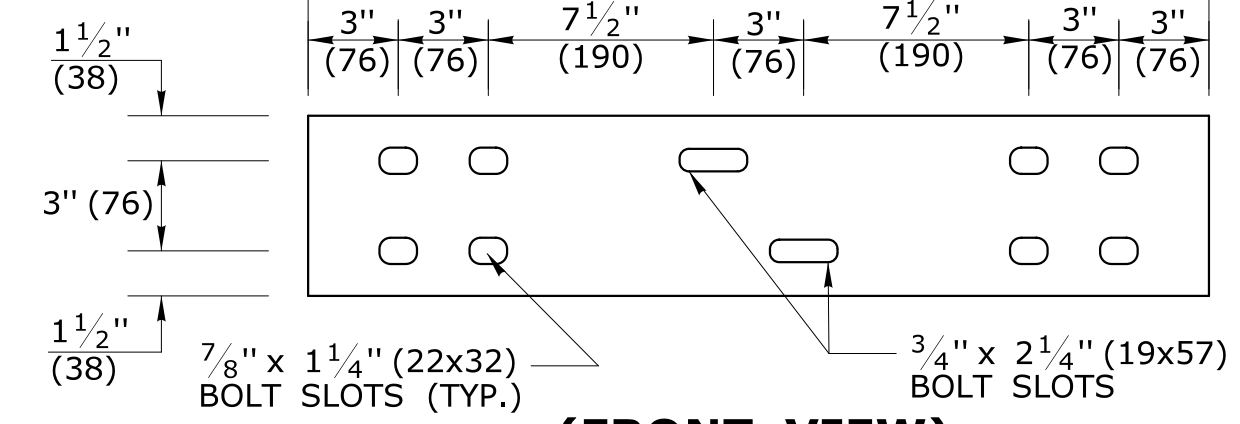
**STEEL RAIL DETAIL  
6" x 3/8" x 4'-9"  
(1829 x 9 x 1448)  
FOR CURVES WITH R < 70' (21.3m)**



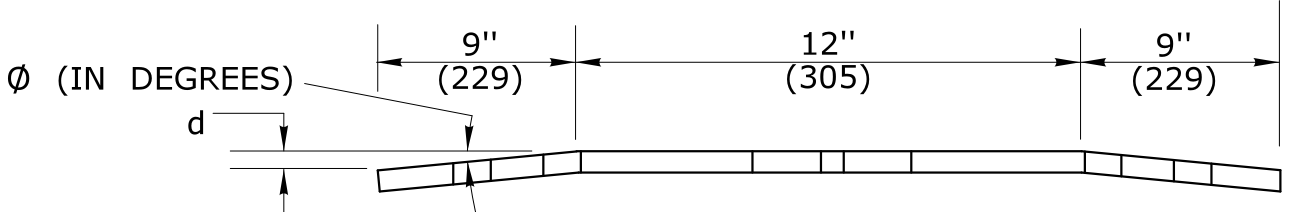
**POST CONNECTION FOR STRAIGHT SECTIONS**



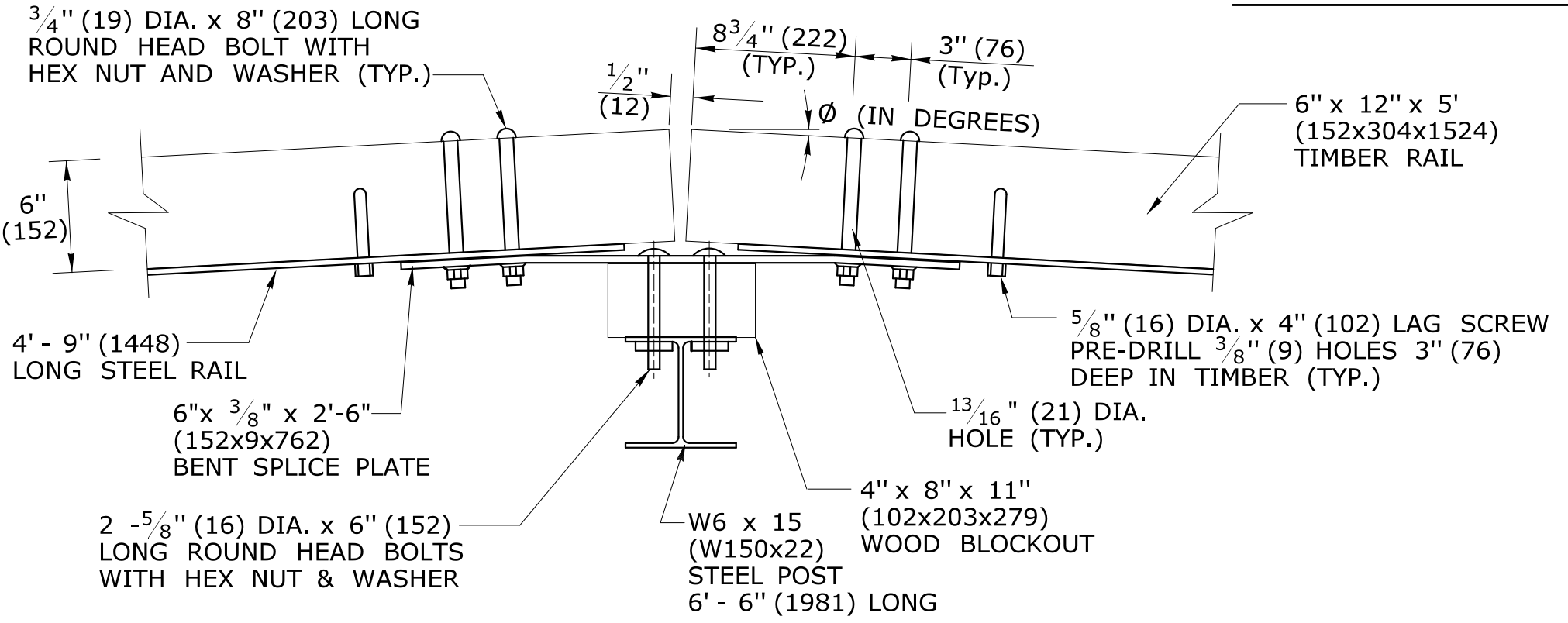
**ELEVATION STRAIGHT SPLICE PLATE**



**(FRONT VIEW)  
STEEL SPLICE PLATE DETAIL  
6" x 3/8" x 2'-6"  
(152x9x762)**



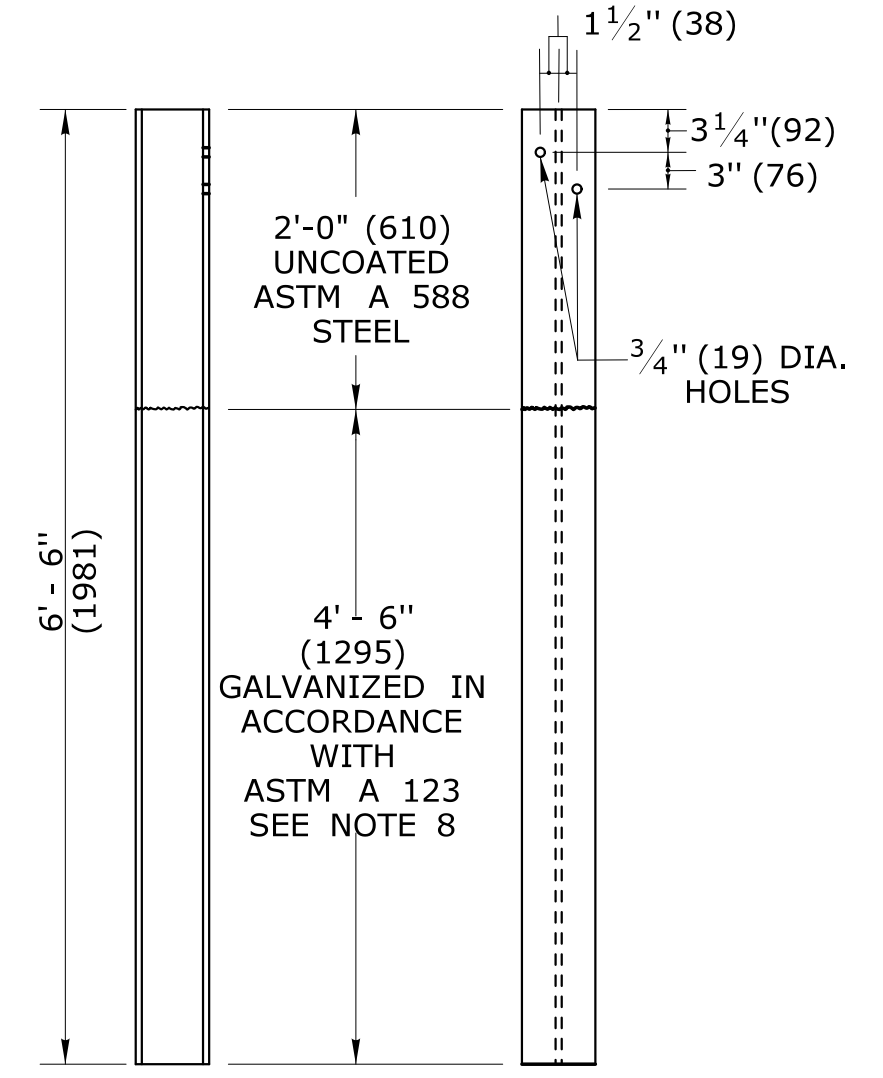
**ELEVATION BENT SPLICE PLATE**



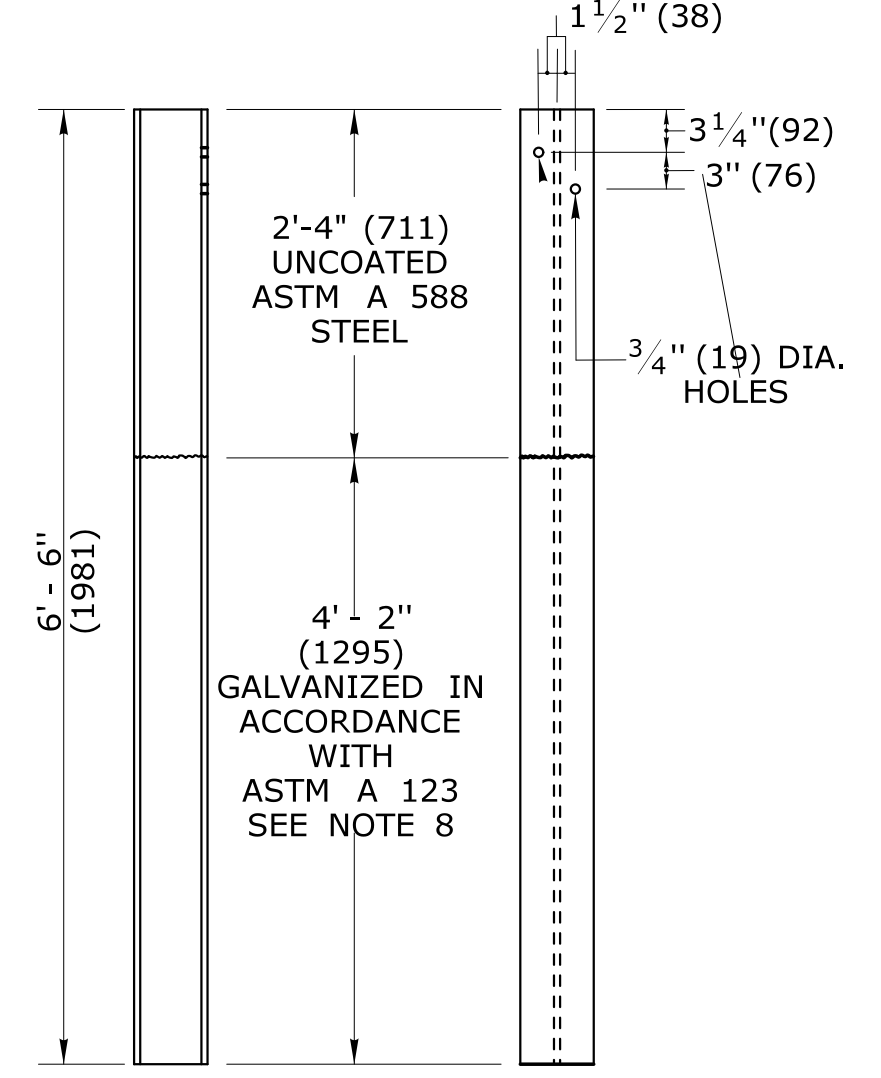
**POST CONNECTION FOR CURVES WITH R < 70' (21.3m)**

**GENERAL NOTES:**

- MATERIALS AND CONSTRUCTION OF THE STEEL-BACKED TIMBER GUIDERAIL SHALL CONFORM TO SPECIAL PROVISION PROVIDED WITH THE PROJECT.
- DELINEATORS SHALL BE PLASTIC INVERTED T-SECTIONS IN ACCORDANCE WITH DETAIL "A", REFLECTORS SHALL BE SPACED IN ACCORDANCE WITH TABLE 1, AND POSITIONED PERPENDICULAR TO THE ADJACENT EDGE OF LANE. DO NOT ATTACH REFLECTORS ON FLARE OR TERMINAL SECTIONS. REFLECTIVE SHEETING SHALL BE SILVER-WHITE ON ALL RAIL SECTIONS ADJACENT TO THE RIGHT SHOULDER, AND YELLOW ON RAIL SECTIONS ADJACENT TO THE LEFT SHOULDER OF TRAVEL LANES. DELINEATORS SHALL BE INCLUDED IN THE COST FOR "STEEL-BACKED TIMBER GUIDERAIL - TYPE A."
- TWO ADDITIONAL 5/8" (16) DIA. X 4" (102) LONG LAG SCREWS AND WASHERS SHALL BE INSTALLED AT ALL MID-SPAN POINTS FOR STANDARD SYSTEMS.
- ALL CONNECTION HARDWARE SHALL BE SUFFICIENTLY TIGHTENED TO ACCOMMODATE FOR SHRINKAGE OF THE WOOD ELEMENTS.
- WHEN FURNISHING THE SHOP BENT SPLICE PLATES, USE THE MINIMUM BEND ANGLE AS SHOWN IN TABLE 2.
- FOR RAILING SET ON A CURVE WITH RADII < 70' (21.3m) SPACE POSTS AT 5' (1524).
- GUIDERAIL HEIGHT MAY VARY UP TO 2" (51) PLUS OR MINUS THE HEIGHT SHOWN IN THE DETAILS TO ACHIEVE A SMOOTH AND CONTINUOUS GUIDERAIL PROFILE.
- 7'-6" (2286) LONG POSTS MAY BE USED IN LOCATIONS WHERE 2' (610) MIN SHELF IS NOT ATTAINABLE. GALVANIZED COATING LIMITS SHALL BE INCREASED BY 1' (305). PAYMENT FOR EXTRA LONG POSTS SHALL BE INCLUDED WITH THE APPLICABLE ITEM "STEEL-BACKED TIMBER GUIDERAIL - TYPE A", "STEEL-BACKED TIMBER GUIDERAIL - TERMINAL SECTION", OR "STEEL-BACKED TIMBER GUIDERAIL - BRIDGE ATTACHEMENT", AS NECESSARY.



**SIDE VIEW FRONT VIEW  
POST DETAIL  
W6 X 15  
(W150X22)  
WITH CURBING**



**SIDE VIEW FRONT VIEW  
POST DETAIL  
W6 X 15  
(W150X22)  
NO CURBING**

**TABLE 1**

DELINEATOR SPACING	
CURVE RADIUS	SPACE
< 300' (91.4m)	20' (6.10m)
≥ 300' (91.4m)	50' (15.2m)

**TABLE 2**

Radius R (ft.)(m)	∅ (Degrees)	d (in.)(mm)
35 (10.7)Min.	4.10	5/8 (16)
40 (12.2)	3.58	9/16 (14)
45 (13.7)	3.18	1/2 (13)
50 (15.2)	2.86	7/16 (11)
55 (16.8)	2.60	7/16 (11)
60 (18.3)	2.40	3/8 (9)
65 (19.8)	2.20	3/8 (9)
70 (21.3)	2.05	5/16 (8)
Over 70 (21.3)	Flat	0

(SEE GENERAL NOTES 1)

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

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-

DESIGNER/DRAFTER:  
**R. MEARS**  
CHECKED BY:  
**S. DRECHSLER**  
SCALE AS NOTED

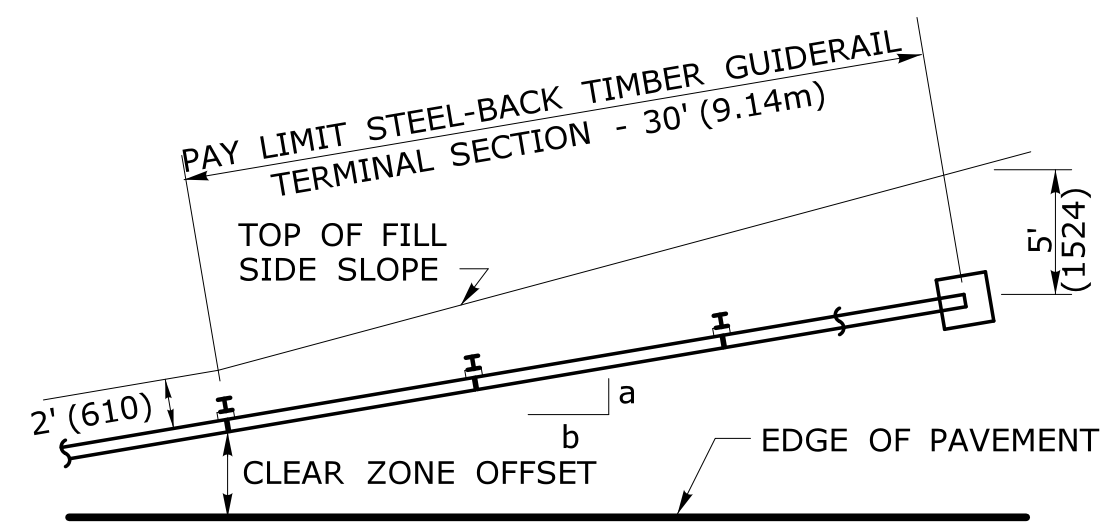
benesch

File name: ...HWY.MSH.Br04746.103.261\_STEEL-BACKED TIMBER GUIDERAIL 2.dgn

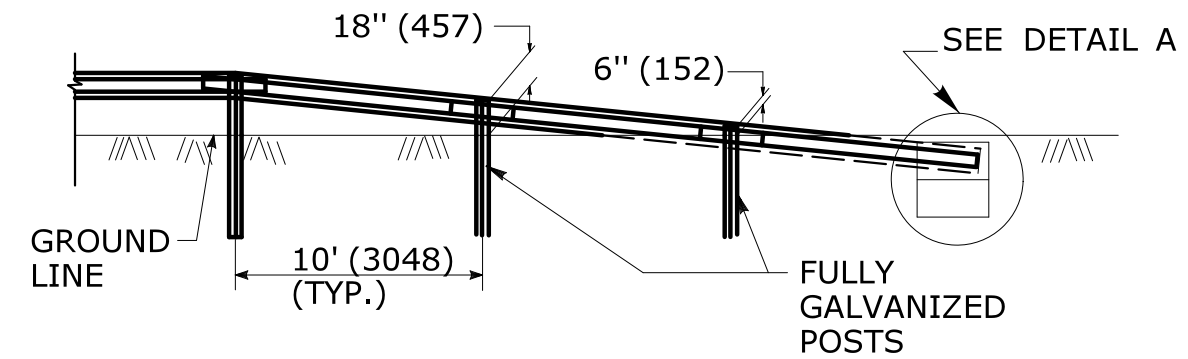
SIGNATURE/BLOCK:  
Alfred Benesch & Company  
90 National Drive  
Glastonbury, CT

PROJECT TITLE:  
**REHABILITATION OF BR. #04746  
SUNNYSIDE STREET OVER  
YANTIC RIVER**

CITY:  
**NORWICH**  
DRAWING TITLE:  
**STEEL-BACKED  
TIMBER GUIDERAIL 2**  
PROJECT NO.:  
**103-261**  
DRAWING NO.:  
**HWY-12**  
SHEET NO.:  
**3.12**



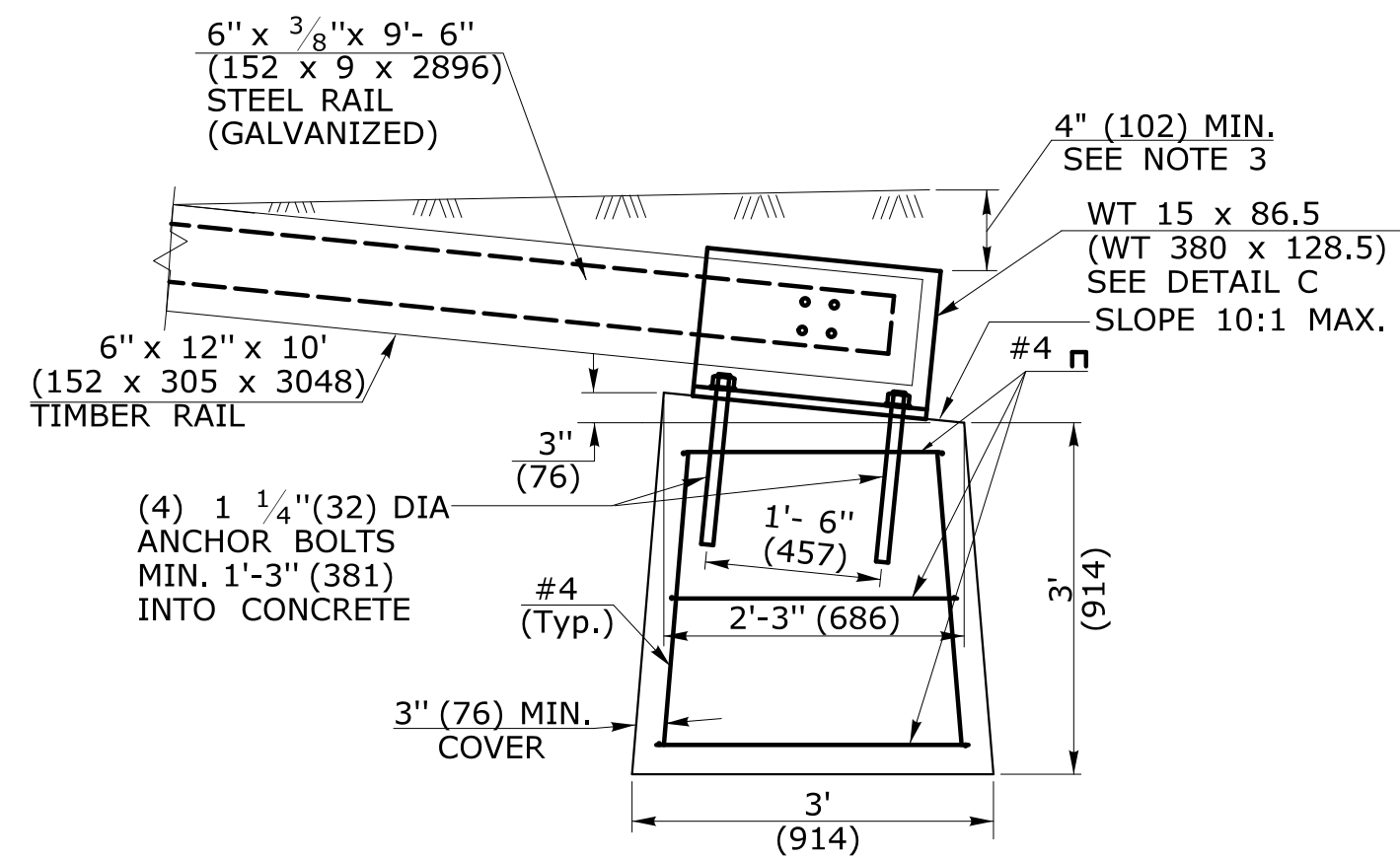
**PLAN**



**ELEVATION**

**STEEL-BACKED TIMBER GUIDERAIL END TERMINAL SECTION  
(BURIED ANCHOR)**

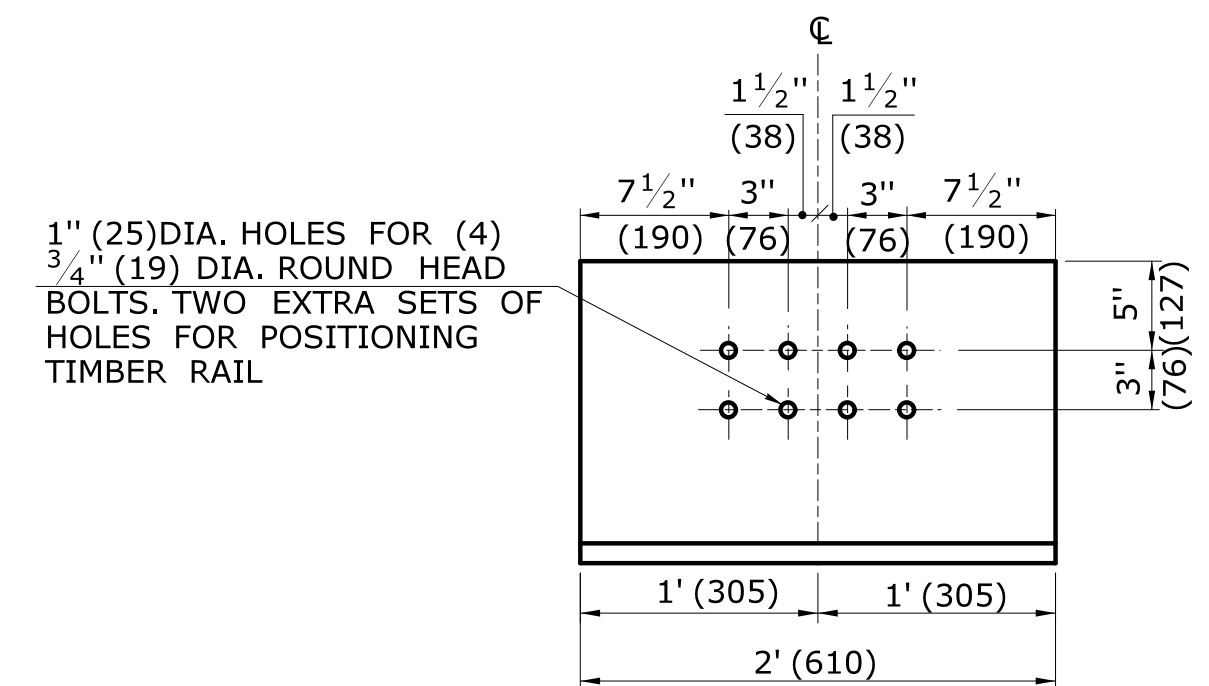
NOTE: SEE PLAN SHEETS FOR FLARE RATE a:b.



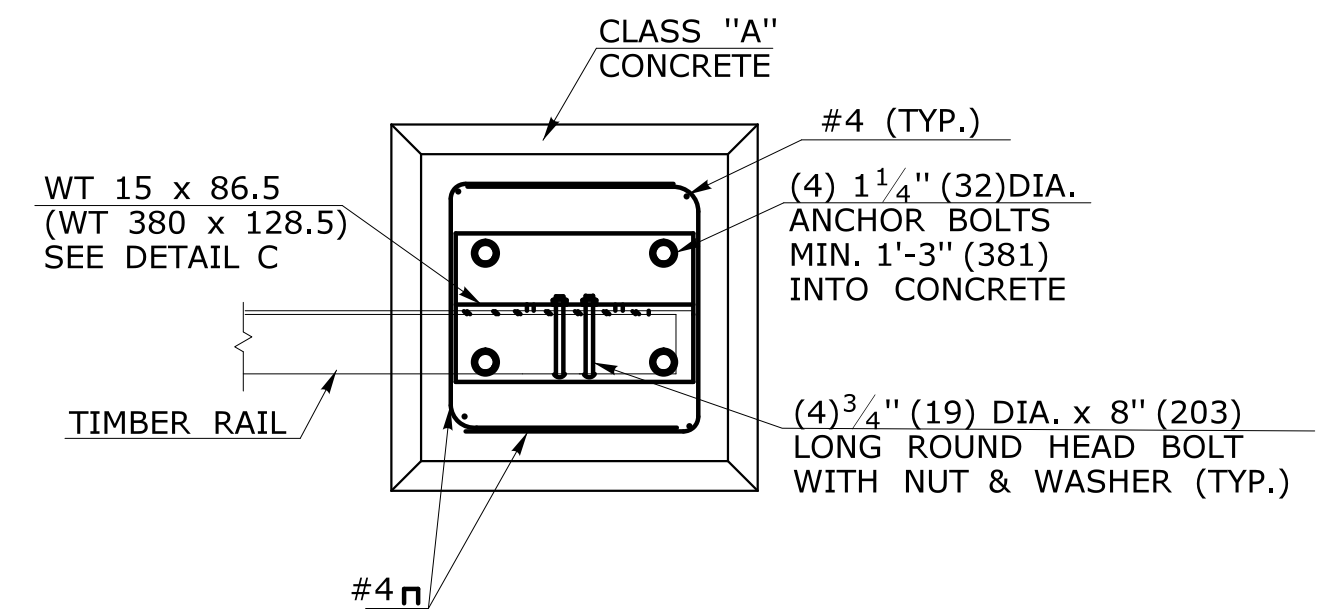
**ELEVATION  
DETAIL A**

**GENERAL NOTES:**

1. MATERIALS AND CONSTRUCTION OF THE "STEEL-BACKED TIMBER GUIDERAIL - TERMINAL SECTION" SHALL CONFORM TO THE SPECIAL PROVISIONS PROVIDED WITH THE PROJECT. ALL HARDWARE IN CONTACT WITH THE GROUND SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIAL PROVISION.
2. FOR THE END ANCHOR TYPE II, EXTEND THE FLARE INTO THE CUT SLOPE UNTIL A MINIMUM 12" (305) OF COVER IS OBTAINED OVER THE GUIDERAIL ELEMENT.
3. FOR THE END ANCHOR TYPE I, EXTEND THE FLARE OUTSIDE THE CLEAR ZONE AND BURY THE GUIDERAIL ANCHOR AND ELEMENT TO OBTAIN A MINIMUM COVER OF 4" (102). SEE DETAIL A.
4. BEGIN THE FLARE AT THE NEAREST POST TO A TRANSITION POINT BETWEEN FILL AND CUT AS DIRECTED BY THE ENGINEER.
5. THE GUIDERAIL FLARE SHOWN ON THE PLAN SHEETS IS THE MINIMUM LENGTH AND RATE REQUIRED AS DIRECTED BY THE ENGINEER. FLARE THE GUIDERAIL SO THAT THE TERMINAL SECTION IS OUTSIDE THE CLEAR ZONE.
6. ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.



**ELEVATION  
DETAIL C  
WT 15 x 86.5 (GALVANIZED)  
(WT 380 x 128.5)**



**PLAN  
DETAIL D  
PLAN VIEW FOR  
TYPE I & II ANCHOR**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

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: 12/12/2018

DESIGNER/DRAFTER:  
**R. MEARS**

CHECKED BY:  
**S. DRECHSLER**

SCALE AS NOTED

Filename: ...\\HWY\_MSH.Br04746\_103-261-STEEL-BACKED TIMBER GUIDERAIL 3.dgn

SIGNATURE/  
BLOCK:

Alfred Benesch &  
Company  
90 National Drive  
Glastonbury, CT

PROJECT TITLE:  
**REHABILITATION OF BR. #04746  
SUNNYSIDE STREET OVER  
YANTIC RIVER**

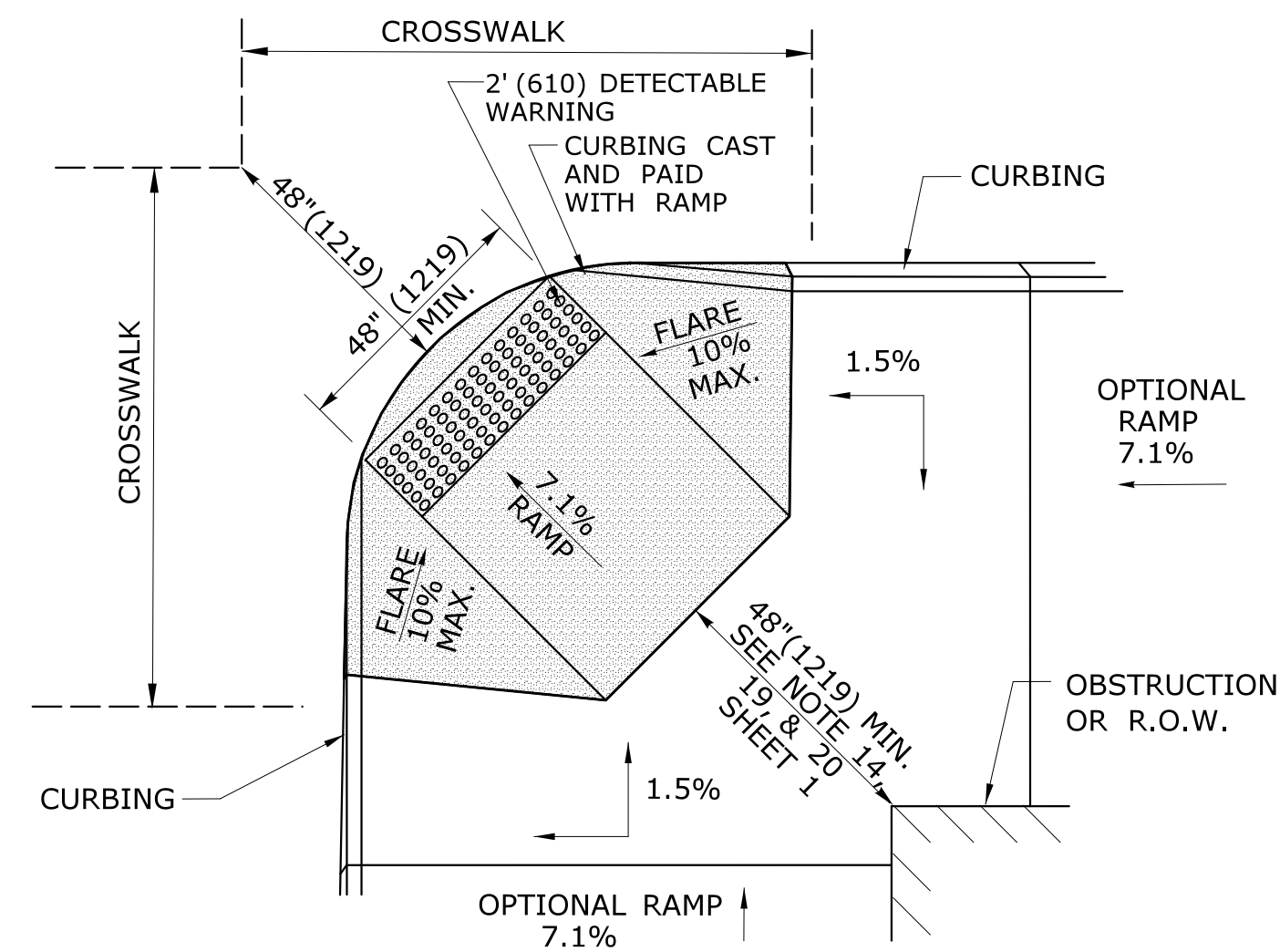
CITY:  
**NORWICH**

DRAWING TITLE:  
**STEEL-BACKED  
TIMBER GUIDERAIL 3**

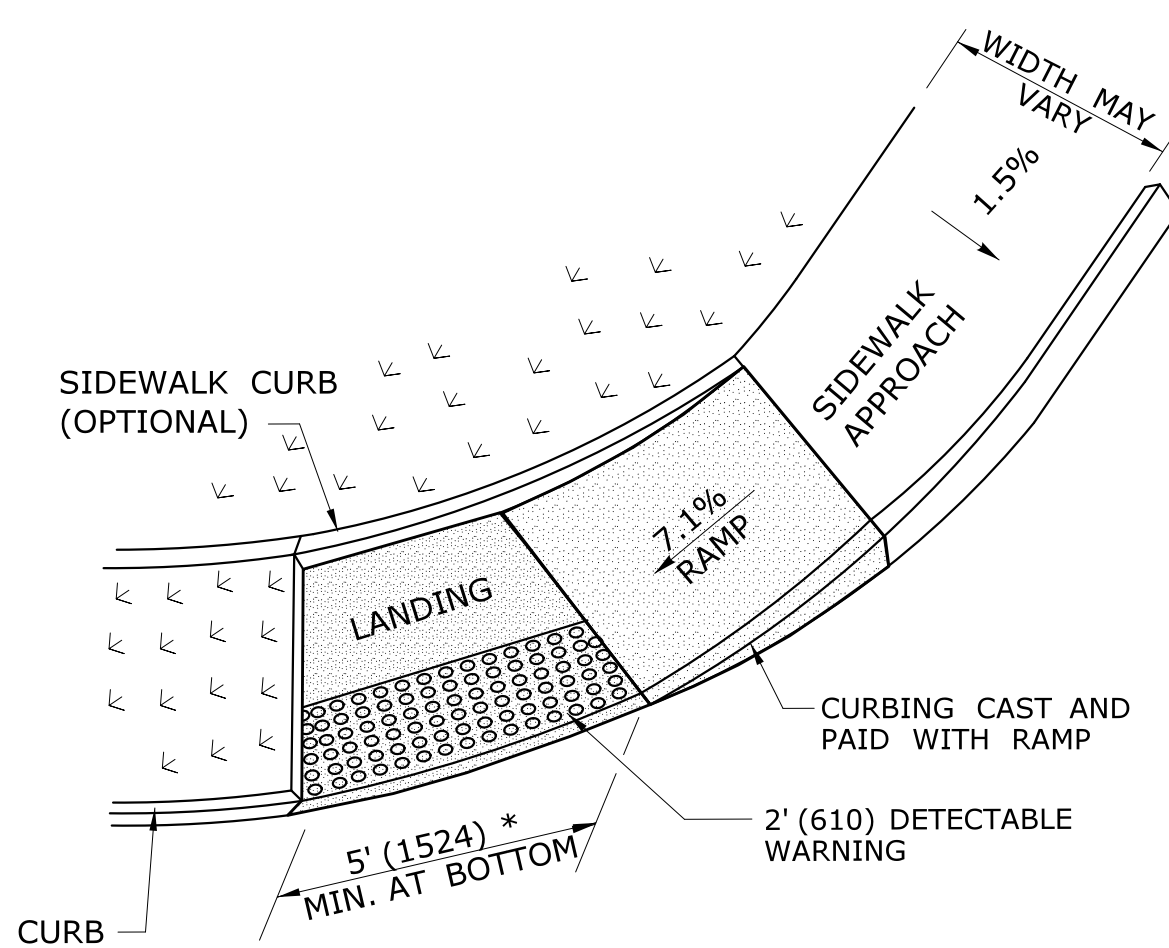
PROJECT NO.  
**103-261**

DRAWING NO.  
**HWY-13**

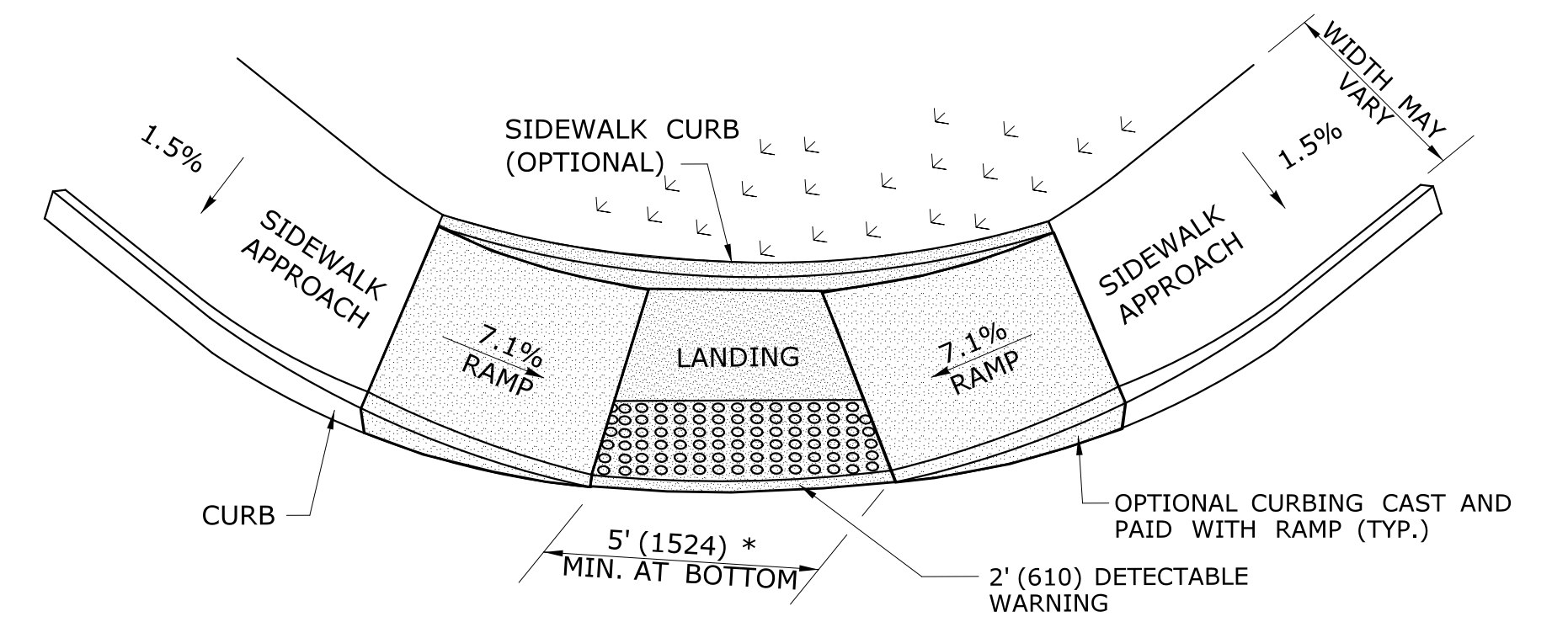
SHEET NO.  
**3.13**



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

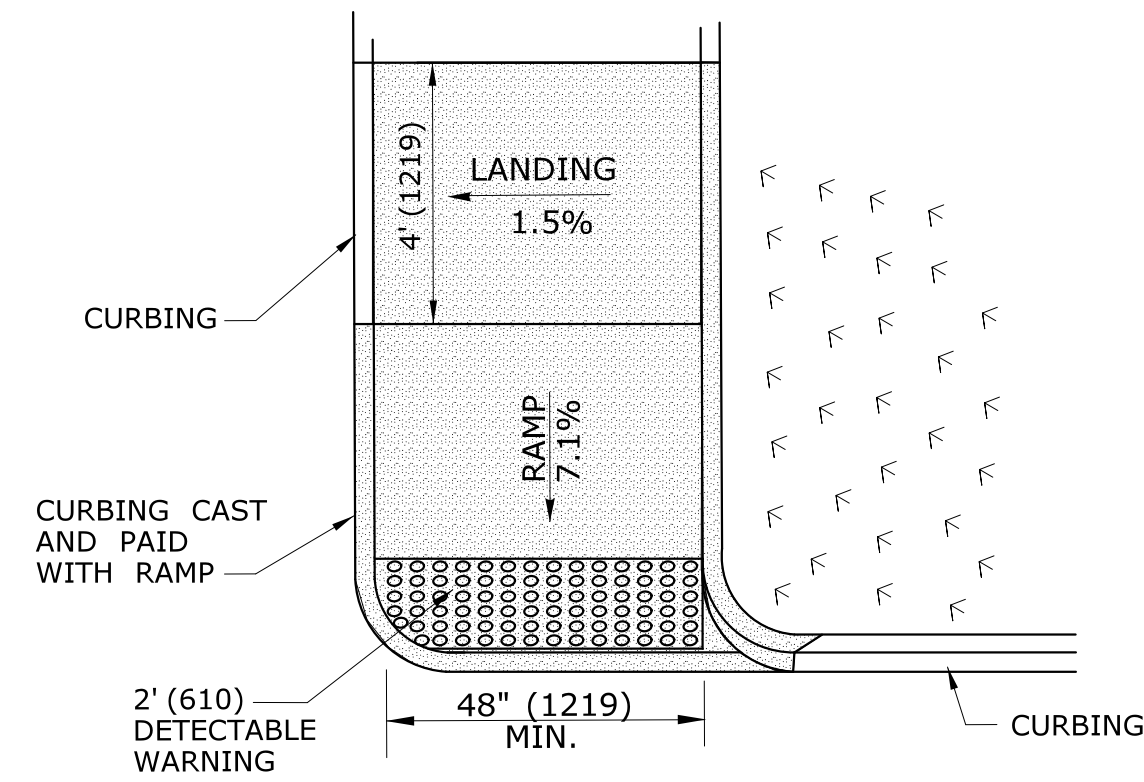


**SINGLE PARALLEL SIDEWALK RAMP  
W/LANDING AT BOTTOM ON  
CORNER (TYPE 4c)**  
\* SEE NOTE 20 SHEET 1

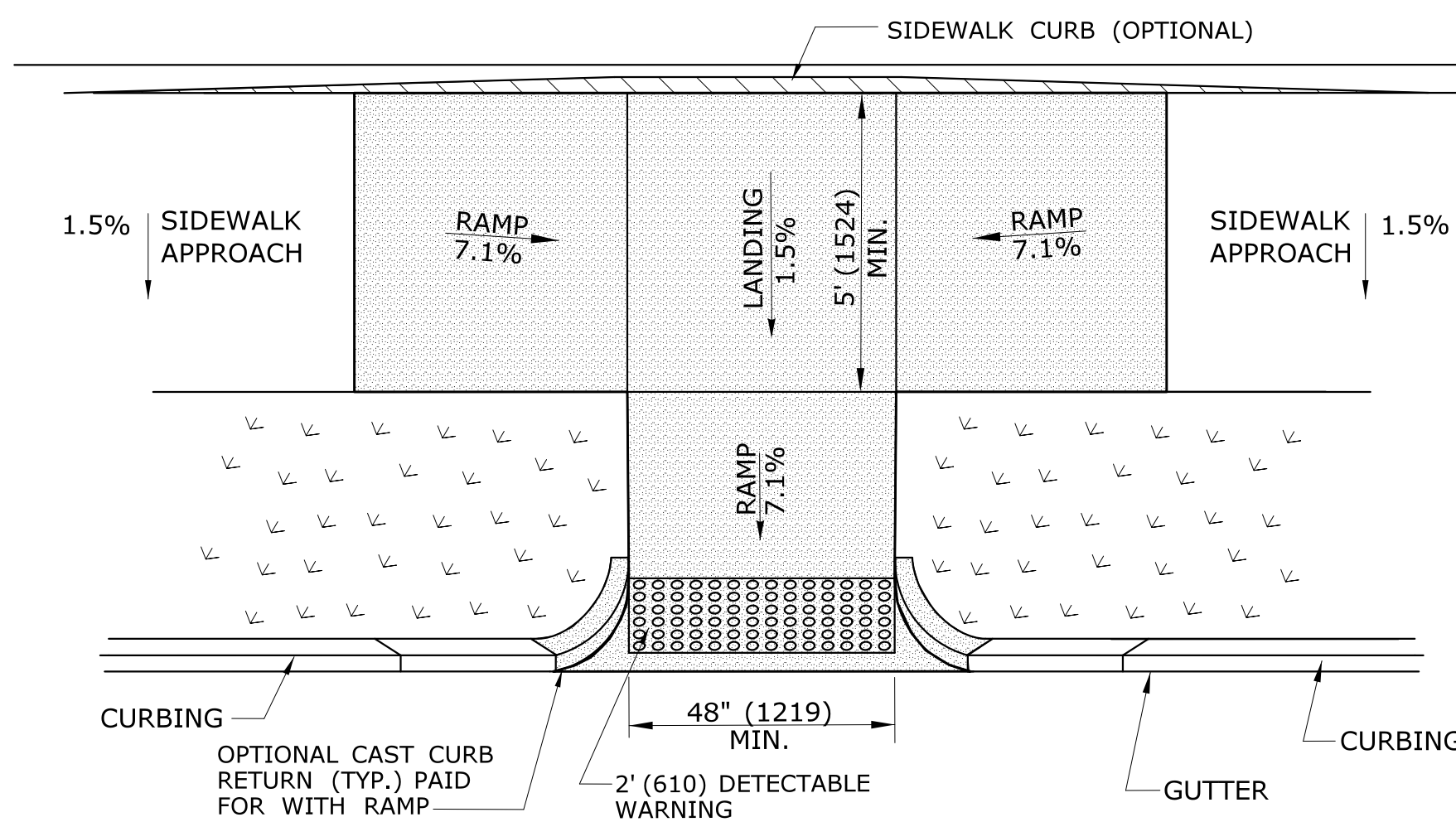


**DOUBLE PARALLEL SIDEWALK RAMP  
W/LANDING AT BOTTOM ON CORNER (TYPE 4f)**

\* SEE NOTE 20 SHEET 1

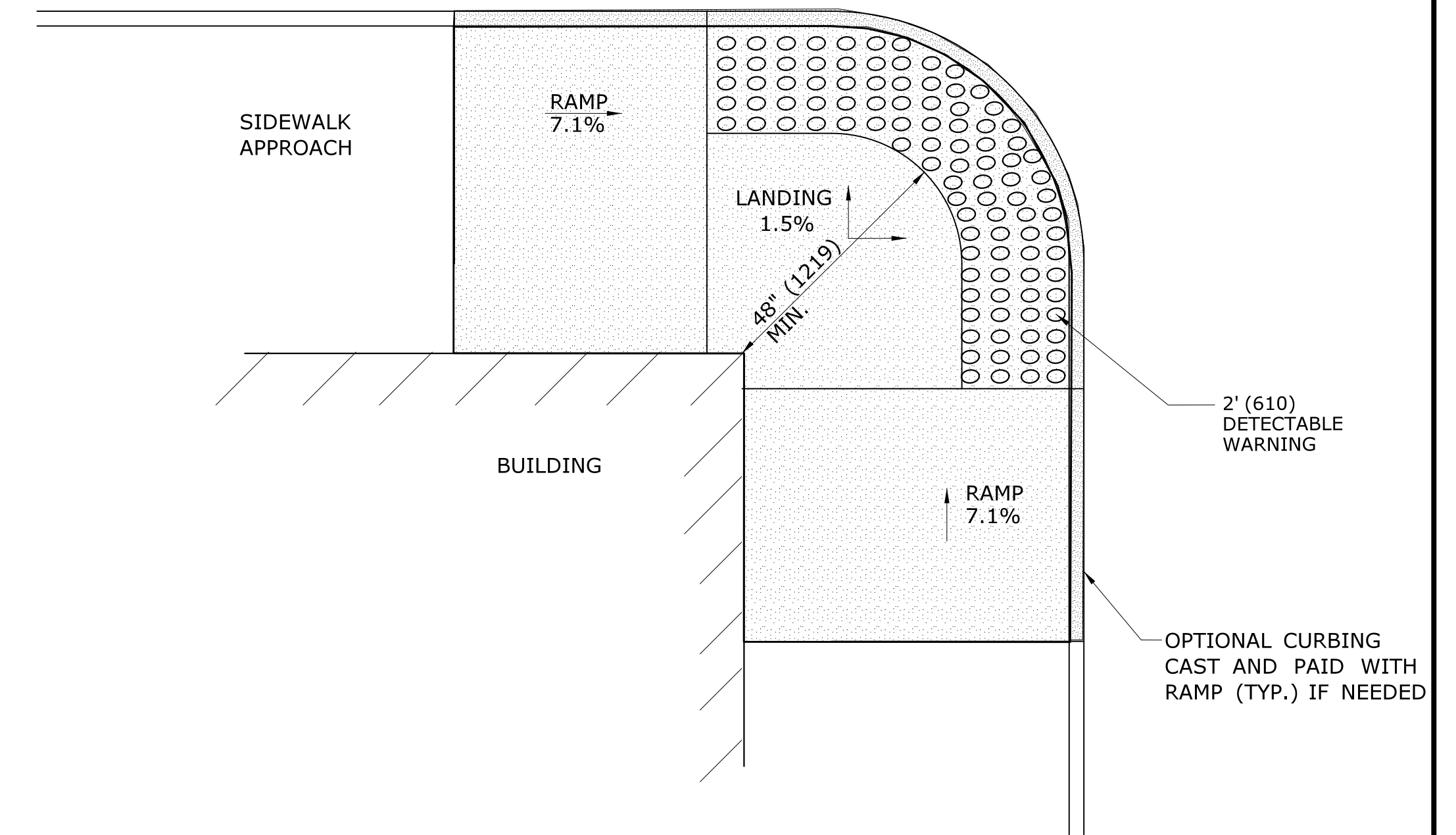


**SINGLE DIRECTION  
PERPENDICULAR SIDEWALK RAMP  
NO / UTILITY GRASS STRIP  
(TYPE 4a)**

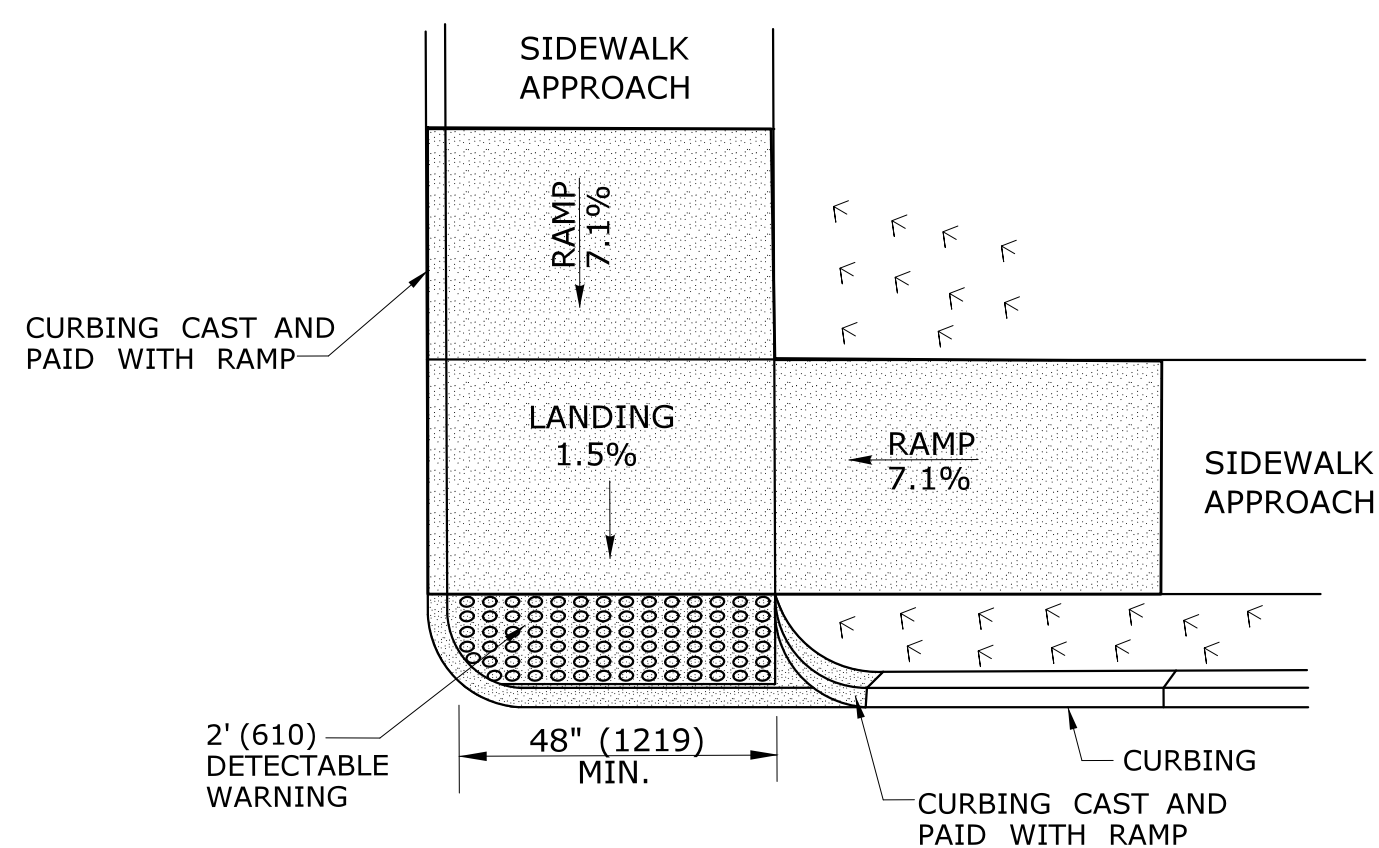


**PARALLEL/PERPENDICULAR SIDEWALK RAMP  
COMBINATION W/ CURB RETURNS (TYPE 4d)**

\* OPTIONAL FLARE ONE SIDE

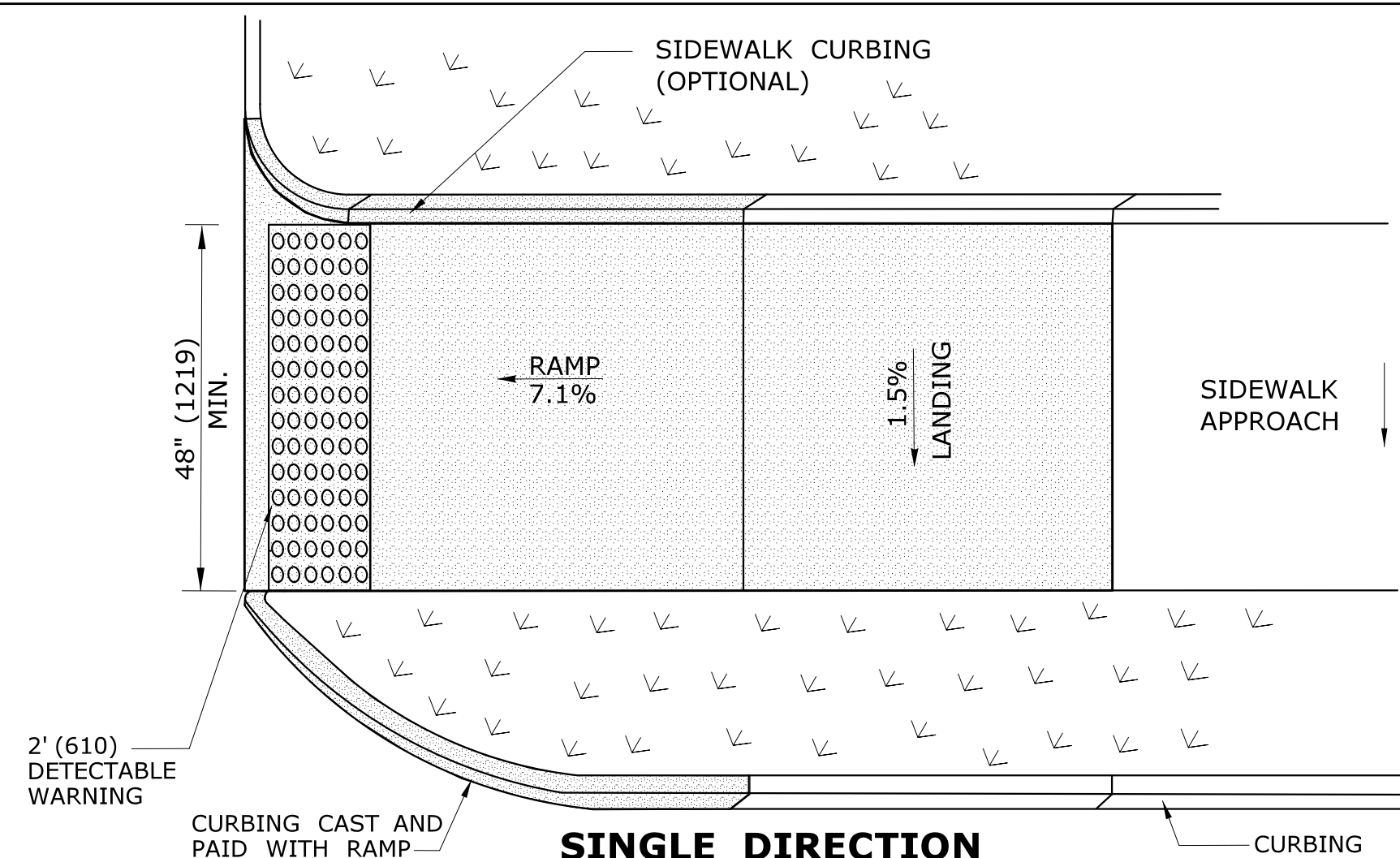


**RESTRICTED CONDITION  
DIAGONAL SIDEWALK RAMP  
(TYPE 4g)**



**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: 7/31/2018

DESIGNER/DRAFTER:  
**MGB/EMK**  
CHECKED BY:  
**LLF**

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

File name: ...Drawings\CTDOT\_HIGHWAY\_GD.dgn

SIGNATURE/  
BLOCK:

Alfred Benesch & Company  
90 National Drive  
Glastonbury, CT

PROJECT TITLE:  
**REHABILITATION OF BR. #04746  
SUNNYSIDE STREET OVER  
YANTIC RIVER**

TOWN:  
**NORWICH**

DRAWING TITLE:  
**SIDEWALK RAMP  
DETAILS**

PROJECT NO.  
**103-261**

DRAWING NO.  
**HWY-14**

SHEET NO.  
**3.14**

<b>D1 - SERIES</b>	<b>D3 - SERIES</b>	<b>D4 - SERIES</b>	<b>D5 - SERIES</b>	<b>D7 - SERIES</b>	<b>D9 - SERIES</b>	<b>D10 - SERIES</b>	<b>RECREATIONAL RS- SERIES</b>	<b>E5 - SERIES</b>	<b>I - SERIES</b>	<b>INCIDENT MANAGEMENT</b>
D1-1 51-5202 Variable → D1-2 51-5203 Variable →	D3-1 Variable Road Name	D4-2  Variable Arrow Direction	NOTICE THIS PARKING AREA PATROLLED	D5-2b  Variable Arrow Direction	D7-1 51-6802 Variable → 51-6803 Variable →	D9-2 	D10-4 	RS-054 	E5-1a  	I-3 
VARIABLE LEGEND & ARROW DIRECTION AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 4.17 60X12 51-5202 2 .100 8.33 60X24 51-5203 2 .100	AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 4.00 48X12 51-2010 2 .100 5.00 60X12 51-2011 2 .100 6.00 72X12 51-2012 2 .125 7.00 84X12 51-2013 2 .125	VARIABLE ARROW DIRECTION AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 5.00 24X30 51-6006 1 .080 7.50 30X36 51-6007 1 .080 12.00 36X48 51-6008 2 .100	LEGEND - BLACK BACKGROUND - WHITE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 15.00 60X36 51-5937 2 .100	LEGEND - WHITE BACKGROUND - BLUE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 42.25 78X78 51-6901 2 .125	W or W/O ARROW VARIABLE ARROW DIRECTION AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 4.17 60X10 51-6802 2 .100 8.33 60X20 51-6803 2 .100	** FOR ARROW SUBPLATES USE M5 & M6 SERIES AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 4.00 24X24 51-6788 1 .080 6.75 18X54 51-5307 1 .080	CARDINAL DIRECTION, SHIELD AND NUMERALS ARE VARIABLE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 4.00 24X24 51-6873 1 .080	FOR USE AT "NO NUMBERED" EXITS AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 30.00 72X60 51-6150 2 .125	VARIABLE: RIVER, BROOK, CREEK AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 1.50 18X12 51-2009 1 .080 4.50 36X18 51-2007 2 .080 12.00 48X36 51-2051 2 .100	CARDINAL DIRECTION VARIABLE - N, S, E, W AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 3.00 12X36 51-5103 1 .080 4.00 12X48 51-5104 1 .080 5.00 12X60 51-5105 1 .080
	D3-1 Variable Road Name	D4-2  Variable Arrow Direction	PARK AT YOUR OWN RISK REMOVE KEYS AND LOCK CAR NOT RESPONSIBLE FOR PROPERTY LOST OR STOLEN	D5-2b 	D7-1 51-6705 DIESEL → 51-6706 FOOD → 51-6707 PHONE → 51-6708 GAS → 51-6709 LODGING →	D9-3a 	RS-117 	E5-1a  	(Town Name) (INCORPORATED) (DATE) TOWN LINE	
	AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 6.00 48X18 51-2004 2 .100 7.50 60X18 51-2001 2 .100 9.00 72X18 51-2002 2 .125 10.50 84X18 51-2003 2 .125	VARIABLE ARROW DIRECTION AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 5.00 24X30 51-6033 1 .080 7.50 30X36 51-6034 1 .080 12.00 36X48 51-6035 2 .100	LEGEND - BLACK BACKGROUND - WHITE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 4.50 36X18 51-6037 1 .080	LEGEND - WHITE BACKGROUND - BLUE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 39.00 72X78 51-6158 2 .125	VARIABLE ARROW DIRECTION AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 4.00 24X24 51-6762 1 .080	** FOR ARROW SUBPLATES USE M5 & M6 SERIES AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 4.00 24X24 51-6762 1 .080	AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 4.00 24X24 51-7872 1 .080	FOR USE AT "NO NUMBERED" EXITS AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 32.50 78X60 51-6124R 2 .125 32.50 78X60 51-6125L 2 .125	VARIABLE: TOWN / CITY AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 7.50 40X27 51-2020 2 .080	SYMBOL - WHITE BACKGROUND - BLUE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 3.00 18X24 51-5943 1 .080
		D4-2  Variable Arrow Direction			51-2705 ↑ 51-2706 → L or R		 	(Name) Connecticut	51-6504 Variable 51-6505 Variable	TO BE SUBMOUNTED W/ 51-5943 LEGEND - WHITE BACKGROUND - BLUE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 0.75 18X6 51-6504 .080 1.50 18X12 51-6505 .080
		VARIABLE ARROW DIRECTION AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 5.00 24X30 51-6044 1 .080 7.50 30X36 51-6045 1 .080 12.00 36X48 51-6046 2 .100			VARIABLE ARROW DIRECTION AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 2.25 36X9 2 .080		AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 2.19 21X15 51-2705 .080 2.19 21X15 51-2706 .080	FOR USE AT "NO NUMBERED" EXITS AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 45.00 108X60 51-6126R 2 .125 45.00 108X60 51-6127L 2 .125	VARIABLE: TOWN / CITY AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 10.00 48X30 51-2040 2 .100	SYMBOL - WHITE BACKGROUND - BLUE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 0.75 18X6 51-6504 .080 1.50 18X12 51-6505 .080

<b>M1 - SERIES</b>	<b>M2 - SERIES</b>	<b>M3 - SERIES</b>		<b>M4 - SERIES</b>	<b>M5 - SERIES</b>	<b>M6 - SERIES</b>	
M1-1  51-6662 51-6666 VARIABLE: 1 or 2 DIGITS	M2-1 JCT	M3-1 NORTH	M3-4 WEST	M4-5 TO	M5-1  L or R	M6-1 	M6-4 
LEGEND - WHITE BACKGROUND - RED & BLUE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 3.20 24X24 51-6662 1 .080 3.99 30X24 51-6663 1 .080 7.20 36X36 51-6666 2 .080 8.99 45X36 51-6667 2 .100	AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 2.19 21X15 51-6640 (1) .080 2.19 21X15 51-6610 (2) .080	AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 2.00 24X12 51-6651 (1) .080 2.00 24X12 51-6611 (2) .080 4.50 36X18 51-6655 (1) .080 4.50 36X18 51-6625 (2) .080	AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 2.00 24X12 51-6654 (1) .080 2.00 24X12 51-6614 (2) .080 4.50 36X18 51-6658 (1) .080 4.50 36X18 51-6628 (2) .080	AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 2.00 24X12 51-6650 (1) .080 2.00 24X12 51-6620 (2) .080	AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 2.19 21X15 51-2690L (1) .080 2.19 21X15 51-2691R (1) .080 2.19 21X15 51-2630L (2) .080 2.19 21X15 51-2631R (2) .080	AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 2.19 21X15 51-2686 (1) .080 2.19 21X15 51-2626 (2) .080	AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 2.19 21X15 51-2697 (1) .080 2.19 21X15 51-2627 (2) .080
M1-4  51-6615 51-6635 VARIABLE: 1 or 2 DIGITS		M3-2 EAST			M5-2  L or R	M6-2  L or R	
LEGEND - BLACK BACKGROUND - WHITE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 4.00 24X24 51-6615 1 .080 5.00 30X24 51-6644 1 .080 9.00 36X36 51-6635 2 .080 11.25 45X36 51-6645 2 .100		AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 2.00 24X12 51-6652 (1) .080 2.00 24X12 51-6612 (2) .080 4.50 36X18 51-6656 (1) .080 4.50 36X18 51-6626 (2) .080			AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 2.19 21X15 51-2688L (1) .080 2.19 21X15 51-2689R (1) .080 2.19 21X15 51-2693R (1) .080 2.19 21X15 51-2632L (2) .080 2.19 21X15 51-2633R (2) .080	AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 2.19 21X15 51-2685 (1) .080 2.19 21X15 51-2625 (2) .080	
M1-5  51-6616 51-6636 VARIABLE: 1 or 2 DIGITS		M3-3 SOUTH				M6-3 	
LEGEND - BLACK BACKGROUND - WHITE AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 4.00 24X24 51-6616 1 .080 5.00 30X24 51-6647 1 .080 9.00 36X36 51-6636 2 .080 11.25 45X36 51-6646 2 .100		AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 2.00 24X12 51-6653 (1) .080 2.00 24X12 51-6613 (2) .080 4.50 36X18 51-6657 (1) .080 4.50 36X18 51-6627 (2) .080				AREA (SQ. FT.) SIZE (INCHES) CONN. D.O.T. # POSTS ALUM. THK. 2.19 21X15 51-2685 (1) .080 2.19 21X15 51-2625 (2) .080	

5 6-2017 REVISED POST REQUIREMENTS.

4 10-2016 ADDED SIGN TO I-3 SERIES.

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.

METRIC CONVERSION CHART (1" = 25mm)

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

DESIGNER/DRAFTER:  
A. S. MERELSTEIN

CHECKED BY:  
B. A. SCHILLING

Plotted: 8/9/2018

STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION

SIGNATURE/BLOCK:  
Alfred Benesch & Company  
90 National Drive  
Glastonbury, CT

PROJECT TITLE:  
**REHABILITATION OF BR. #04746  
SUNNYSIDE STREET OVER  
YANTIC RIVER**

TOWN:  
**NORWICH**

PROJECT NO.  
**103-261**

DRAWING NO.  
**HWY-15**

SHEET NO.  
**3.15**