03 - HIGHWAYS

INDEX OF DRAWINGS

SHEET NUMBER	DRAWING TITLE	SHEET NUMBER	DRAWING TITLE
03.01	INDEX SHEET		
03.02	TYPICAL SECTIONS		
03.03 - 03.06	DRAINAGE GUIDE SHEETS		
03.07 - 03.10	MISCELLANEOUS DETAILS		
03.11 - 03.22	CONSTRUCTION PLANS		
03.23 - 03.34	ALIGNMENT PLANS		
03.35 - 03.83	CROSS SECTIONS		

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

Erik A. Jarboe, P.E.
2019.06.11
14:32:47-04'00'

TRANSPORTATION PRINCIPAL ENGINEER

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: CJG

CHECKED BY: JMG

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_INX.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Matthew Pond

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN:

NORWICH AND MONTVILLE

DRAWING TITLE:

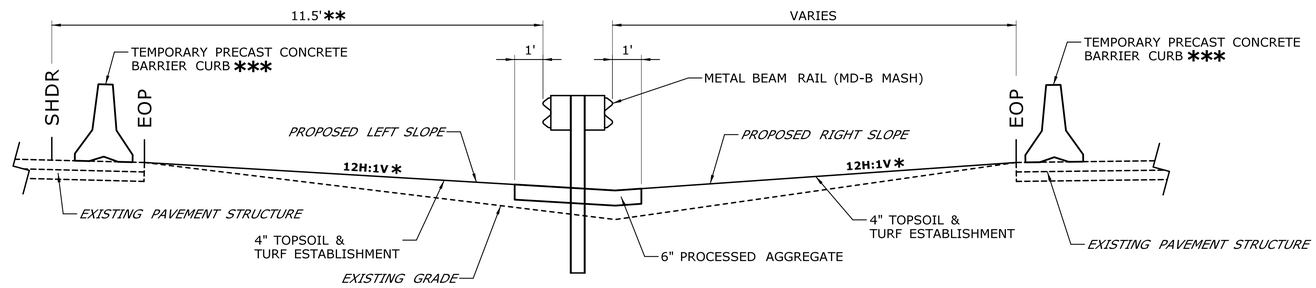
INDEX SHEET

PROJECT NO. 0103-0272

DRAWING NO. INX-01

SHEET NO. 03.01

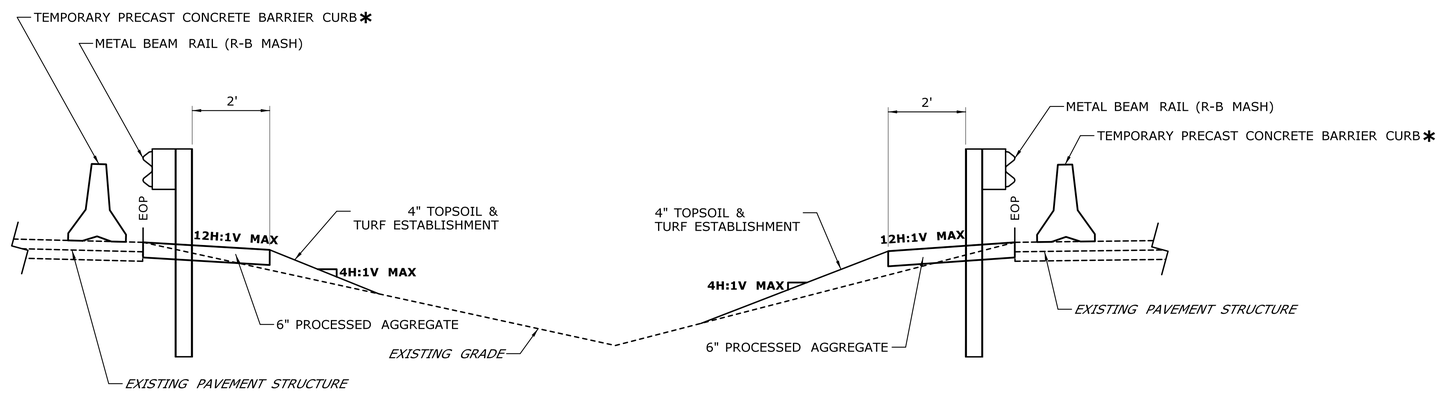
MEDIAN GRADING *			
STATION RANGE	START SLOPE	END SLOPE	LEFT SLOPE / RIGHT SLOPE
108+50 - 108+75	-8.33%	-7.00%	LEFT
108+75 - 109+00	-7.00%	-8.33%	LEFT
133+50 - 134+00	-8.33%	-6.00%	LEFT
134+00 - 134+50	-6.00%	-8.33%	LEFT
138+00 - 138+20	-8.33%	-6.50%	LEFT
138+20 - 138+50	-6.50%	-8.33%	LEFT
141+50 - 143+75	GRADING NOT REQUIRED - MATCH EXISTING AT STATION LIMITS		
144+50 - 145+00	8.33%	4.00%	RIGHT
145+00 - 149+50	4.00%	4.00%	RIGHT
149+50 - 150+00	4.00%	8.33%	RIGHT
182+30 - 187+50	GRADING NOT REQUIRED - MATCH EXISTING AT STATION LIMITS		
187+75 - 188+00	-8.33%	-6.00%	LEFT
188+00 - 188+25	-6.00%	-6.50%	LEFT
188+25 - 193+75	-6.50%	-6.50%	LEFT
193+75 - 194+25	-6.50%	-3.50%	LEFT
194+25 - 194+75	-3.50%	-6.50%	LEFT
194+75 - 196+50	-6.50%	-6.50%	LEFT
246+75 - 247+00	8.33%	7.00%	RIGHT
247+00 - 247+25	7.00%	8.33%	RIGHT
252+75 - 253+00	8.33%	7.00%	RIGHT
253+00 - 253+25	7.00%	8.33%	RIGHT
256+00 - 256+50	8.33%	5.00%	RIGHT
256+50 - 257+00	5.00%	8.33%	RIGHT
263+25 - 263+50	-8.33%	7.00%	LEFT
263+50 - 263+75	-7.00%	-8.33%	LEFT
266+00 - 266+50	-8.33%	-7.00%	LEFT
266+50 - 266+75	-7.00%	-8.33%	LEFT
274+00 - 274+50	-8.33%	-4.50%	LEFT
274+50 - 275+00	-4.50%	-8.33%	LEFT
276+25 - 276+50	-8.33%	-7.00%	LEFT
276+50 - 279+00	-7.00%	-7.00%	LEFT
279+00 - 279+25	-7.00%	-8.33%	LEFT
281+00 - 281+50	-8.33%	-4.00%	LEFT
281+50 - 282+00	-4.00%	-8.33%	LEFT
295+00 - 295+50	-8.33%	-6.50%	LEFT
295+50 - 301+50	-6.50%	-6.50%	LEFT
301+50 - 302+00	-6.00%	-8.33%	LEFT
304+25 - 304+50	-8.33%	-7.00%	LEFT
304+50 - 304+75	-7.00%	-8.33%	LEFT
307+75 - 308+00	8.33%	7.00%	RIGHT
308+00 - 308+25	7.00%	8.33%	RIGHT
311+25 - 311+50	-8.33%	-7.50%	LEFT
311+50 - 311+75	-7.50%	-8.33%	LEFT
316+75 - 317+00	8.33%	7.00%	RIGHT
317+00 - 317+25	7.00%	8.33%	RIGHT
319+25 - 319+50	8.33%	7.50%	RIGHT
319+50 - 319+75	7.50%	8.33%	RIGHT
321+50 - 322+00	-8.33%	-5.50%	LEFT
322+00 - 322+50	-5.50%	-8.33%	LEFT
331+00 - 338+00	GRADING NOT REQUIRED - MATCH EXISTING AT STATION LIMITS		
342+00 - 342+50	8.33%	5.50%	RIGHT
342+50 - 343+00	5.50%	8.33%	RIGHT
345+75 - 346+00	-8.33%	-7.00%	LEFT
346+00 - 346+25	-7.00%	-8.33%	LEFT
352+00 - 353+00	GRADING NOT REQUIRED - MATCH EXISTING AT STATION LIMITS		
357+25 - 357+50	-8.33%	-6.50%	LEFT
357+50 - 358+00	-6.50%	-6.50%	LEFT
358+00 - 358+25	-6.50%	-5.00%	LEFT
358+25 - 361+00	-5.00%	-5.00%	LEFT
361+00 - 361+50	-5.00%	-8.33%	LEFT
361+50 - 362+00	8.33%	4.50%	RIGHT
362+00 - 362+50	4.50%	8.33%	RIGHT
366+25 - 366+50	8.33%	7.50%	RIGHT
366+50 - 366+75	7.50%	8.33%	RIGHT
370+50 - 371+00	-8.33%	-5.50%	LEFT
371+00 - 371+50	-5.50%	-8.33%	LEFT



TYPICAL SECTION - MEDIAN GUIDERAIL

***PROPOSED GRADE TO BE 12H:1V (8.33%) EXCEPT AS INDICATED IN THE TABLE SHOWN TO THE LEFT.**
****DISTANCE BETWEEN RAIL AND SHOULDER LINE TO BE 11.5' EXCEPT AS INDICATED IN THE TABLE SHOWN TO THE RIGHT.**
*****TEMPORARY PRECAST CONCRETE BARRIER CURB SHALL NOT EXTEND MORE THAN 5,500 FEET IN LENGTH AT ANY TIME.**

MEDIAN GUIDERAIL OFFSET FROM SHOULDER LINE **		
STATION RANGE	START VALUE	END VALUE
103+50 - 105+50	5'	11.5'
111+50 - 112+00	11.5'	10.5'
112+00 - 112+50	10.5'	10.5'
112+50 - 116+25	10.5'	24'
124+75 - 128+50	4'	11.5'
144+50 - 149+00	11.5'	25'
182+50 - 184+50	3.5'	9.5'
184+50 - 185+50	9.5'	9.5'
187+50 - 188+00	9'	10'
188+00 - 192+00	10'	10'
192+00 - 196+50	10'	24'
229+00 - 231+50	3.5'	11'
231+50 - 279+00	11'	11'
279+00 - 283+00	11'	24.5'
287+50 - 290+00	4.5'	11.5'
301+50 - 303+50	11.5'	18'
303+50 - 312+00	18'	18'
312+00 - 314+00	18'	24.5'
314+50 - 319+00	3.5'	18'
319+00 - 322+50	18'	18'
322+50 - 324+00	18'	23'
325+50 - 327+50	4'	10.5'
327+50 - 364+50	10.5'	10.5'
364+50 - 369+00	10.5'	25'
369+00 - 373+50	3.5'	17.5'



TYPICAL SECTION - ROADSIDE GUIDERAIL

***TEMPORARY PRECAST CONCRETE BARRIER CURB SHALL NOT EXTEND MORE THAN 5,500 FEET IN LENGTH AT ANY TIME.**

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: CJG
CHECKED BY: JMG
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_TYP.dgn

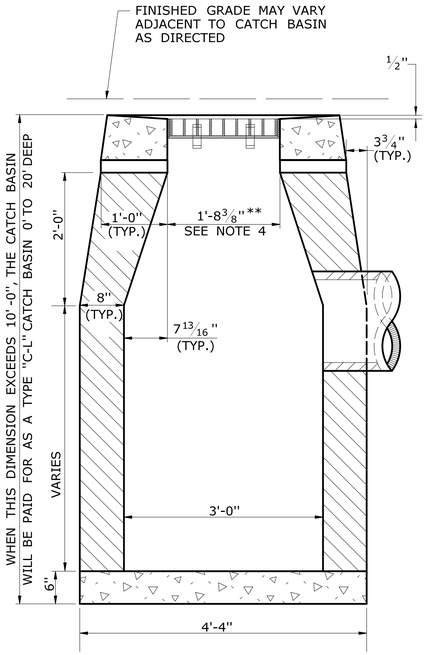
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Matthew Vail

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN: NORWICH AND MONTVILLE

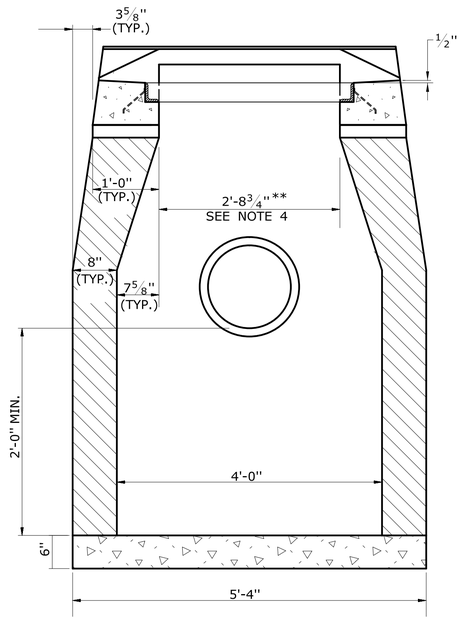
DRAWING TITLE: TYPICAL SECTIONS

PROJECT NO. 0103-0272
DRAWING NO. TYP-01
SHEET NO. 03.02



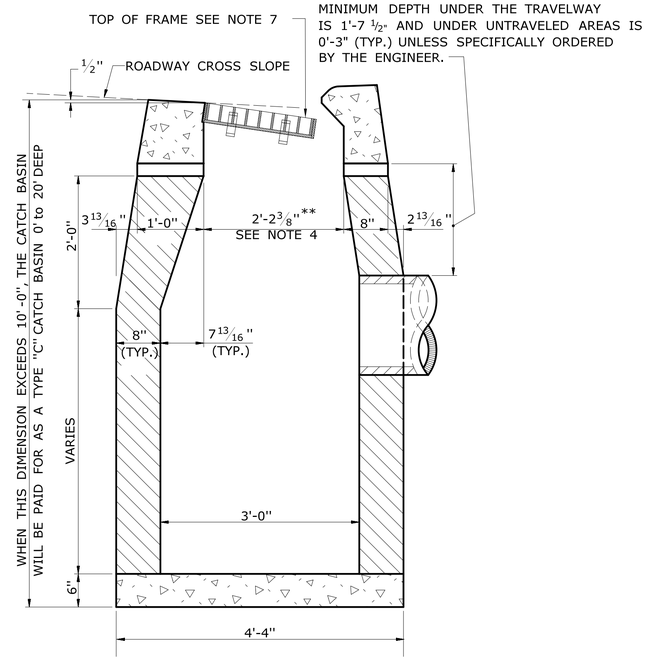
SECTION B

TYPE "C-L" CATCH BASIN



SECTION A

TYPE "C" & "C-L" CATCH BASIN (TYPE "C" TOP SHOWN)

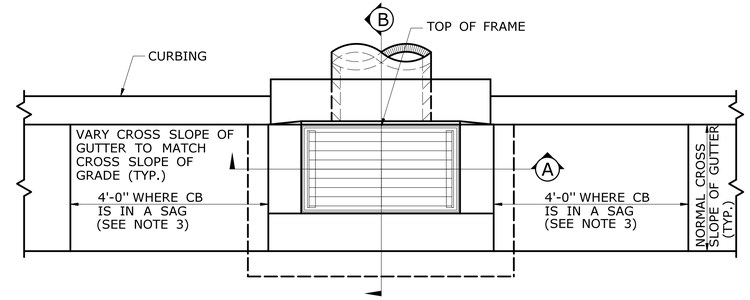


SECTION B

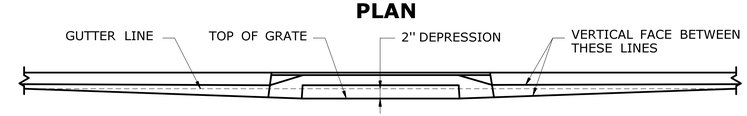
TYPE "C" CATCH BASIN

GENERAL NOTES:

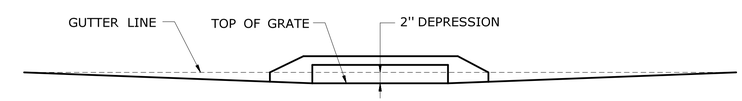
1. FOR CATCH BASIN TOPS, SEE DRAWING NO. DGS-03.
2. ALL FACES OF STRUCTURES IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL.
3. USE 6'-0" ON UPGRADE SIDE (SEE PLAN VIEW) OF CONTINUOUS GRADE AND 1'-0" ON DOWNGRADE SIDE OF CONTINUOUS GRADE OR AS DIRECTED BY THE ENGINEER.
4. IF MASONRY UNITS ARE REQUIRED, THE BASIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE DIMENSIONS SHOWN. CORBELLING SHALL BE PERMITTED TO A MAXIMUM OF 3". NO PROJECTION SHALL EXTEND INSIDE THE LIMITS FOR THE CATCH BASIN OPENINGS SHOWN IN THE SECTION VIEWS **.
5. WALL THICKNESS OF ALL CATCH BASINS OVER 10' DEEP SHALL BE INCREASED TO 12" THICK. INSIDE DIMENSION SHALL REMAIN THE SAME. 12" THICKNESS SHALL START AFTER THE FIRST 10'.
6. SPACERS CAN BE EITHER CONCRETE MASONRY UNIT OR PRECAST WITH THE REQUIRED REINFORCING (RECOMMENDED BY THE MANUFACTURER) AS NEEDED TO PROVIDE THE PROPER GRADE SHOWN ON THE PLANS.
7. TOP OF FRAME ELEVATION SHALL BE MEASURED IN THE CENTER OF GRATE AT GUTTER LINE.



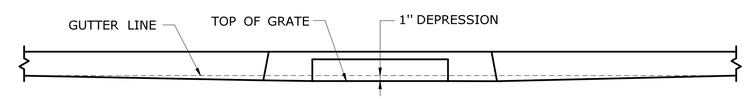
PLAN



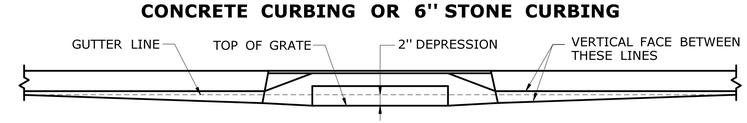
CATCH BASINS IN A LINE WITH 4" CONCRETE PARK CURBING OR 4" BITUMINOUS CONCRETE PARK CURBING



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

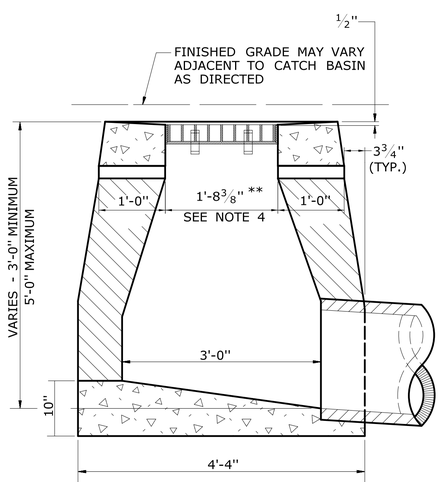


CATCH BASINS IN A LINE WITH 6" CONCRETE CURBING OR 6" STONE CURBING



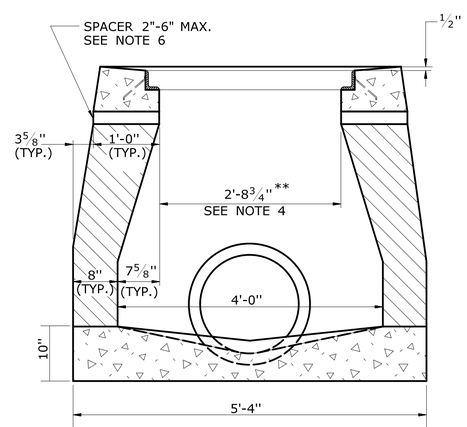
CATCH BASINS IN A LINE WITH 6" BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED)

DETAILS OF DEPRESSED GUTTER STRIP FOR TYPE "C" CATCH BASIN



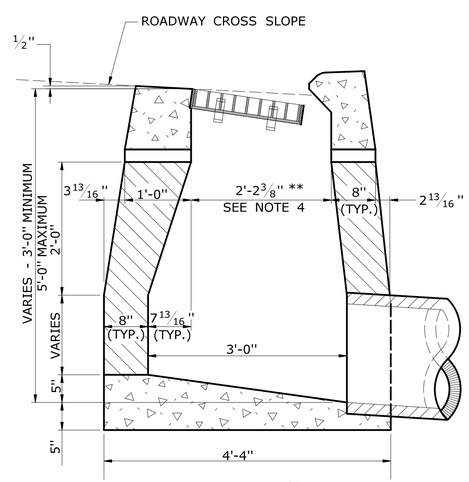
SECTION B

TYPE "C-L" DROP INLET



SECTION A

TYPE "C" & "C-L" DROP INLET (TYPE "C-L" TOP SHOWN)



SECTION B

TYPE "C" DROP INLET

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN
CHECKED BY: JDA
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_DGS.dgn

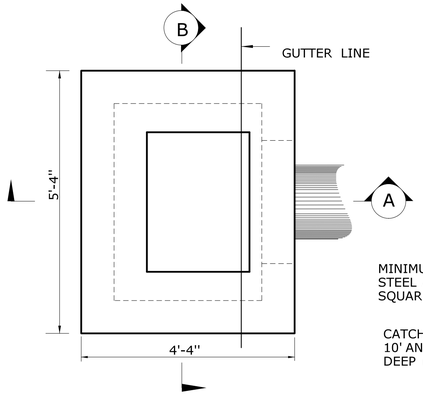
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Matthew Vail

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

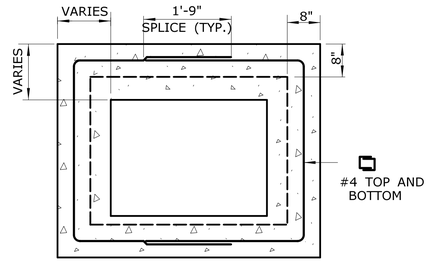
TOWN: NORWICH AND MONTVILLE

DRAWING TITLE: CATCH BASIN AND DROP INLET

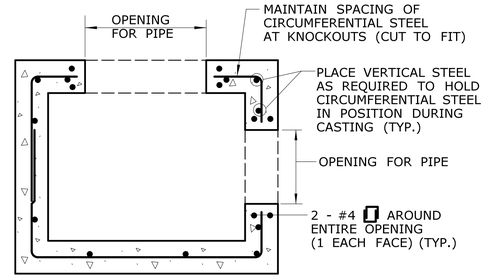
PROJECT NO. 0103-0272
DRAWING NO. DGS-01
SHEET NO. 03.03



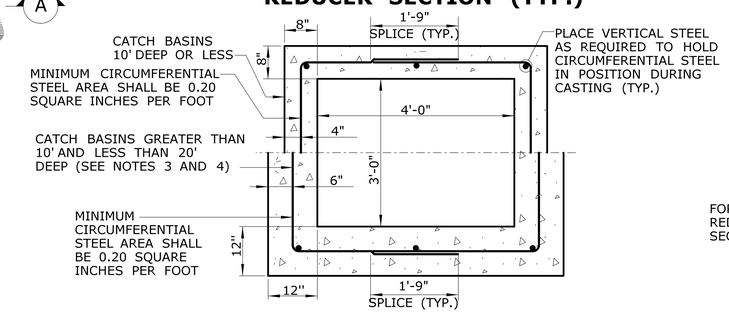
PLAN



REDUCER SECTION (TYP.)



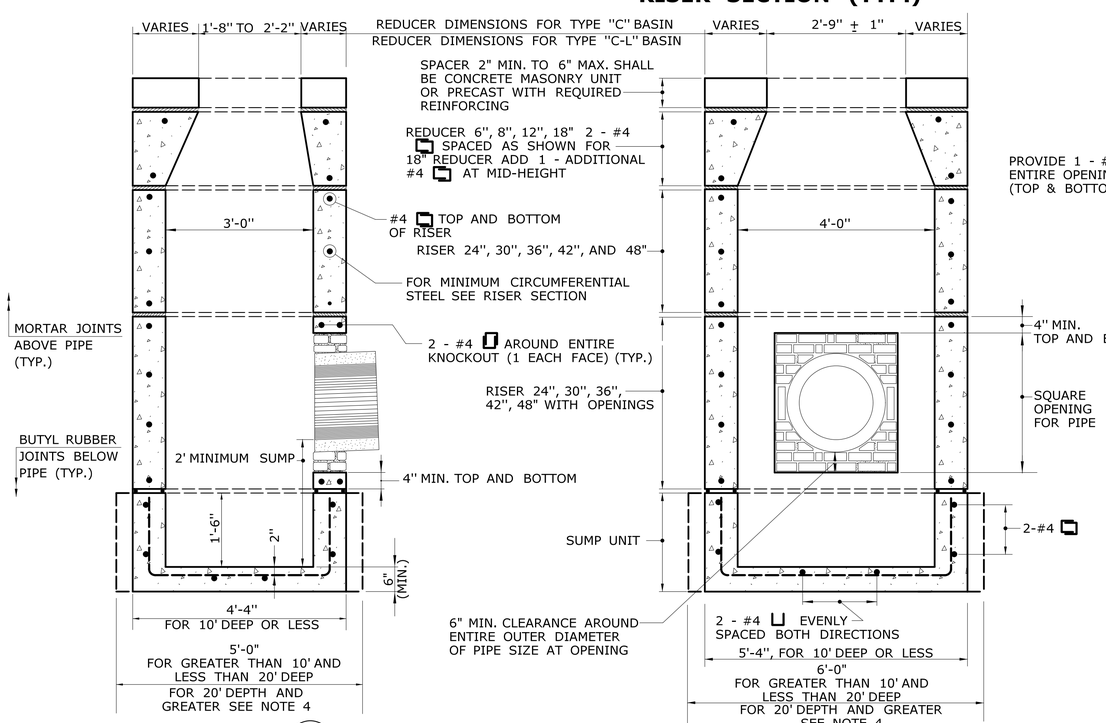
TYPICAL SECTION THROUGH RISER WITH OPENING



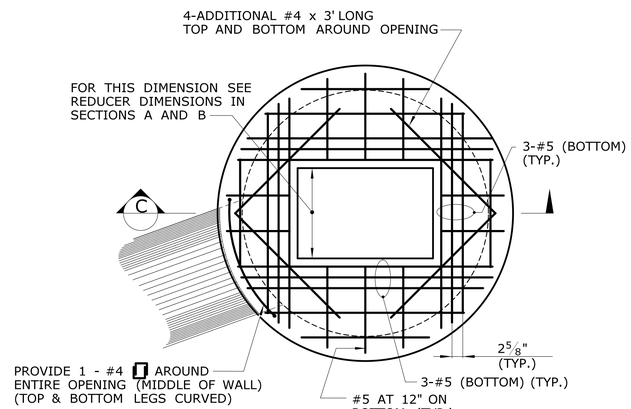
RISER SECTION (TYP.)

GENERAL NOTES:

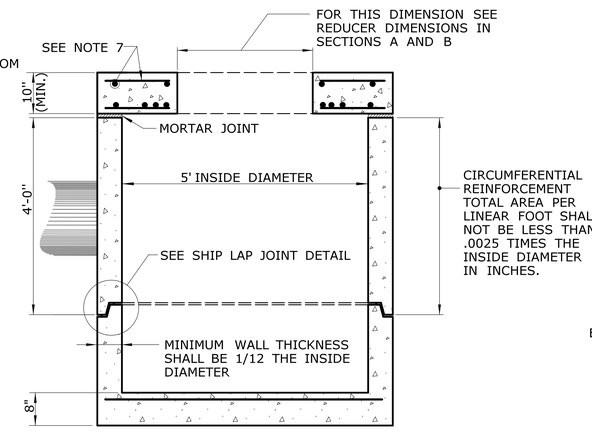
1. WELDED WIRE FABRIC WITH AN AREA EQUAL TO OR GREATER THAN THE REINFORCING SHOWN MAY BE SUBSTITUTED AS APPROVED BY THE ENGINEER.
2. ALL REINFORCEMENT SHALL HAVE A MINIMUM CLEAR COVER OF 2 INCHES, EXCEPT FOR BENEATH BOTTOM REINFORCEMENT IN TOP SLABS, WHERE THE MINIMUM MAY BE $1\frac{1}{2}$ INCHES.
3. WALL THICKNESS OF ALL CATCH BASINS OVER 10 FEET DEEP SHALL BE INCREASED TO 12 INCHES. INSIDE DIMENSIONS SHALL REMAIN THE SAME. THE 12 INCH THICKNESS SHALL START AFTER THE FIRST 10 FEET.
4. BASES AND RISERS AT A DEPTH OF 20 FEET AND GREATER SHALL BE DESIGNED BY THE CONTRACTOR AND WORKING DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
5. RISERS MAY BE PREFABRICATED WITH PIPE OPENINGS IN ALL FOUR WALLS. ADEQUATE REINFORCING AROUND PIPE OPENINGS SHALL BE PROVIDED. RISERS USED WHERE A PIPE OPENING IS TO REMAIN IN PLACE MUST BE FORMED UP WITH BRICK AS DIRECTED BY THE ENGINEER.
6. RISERS SHALL NEVER HAVE CORNER PIPE ENTRIES. ROUND STRUCTURES SHALL BE USED WHEN PIPES CANNOT ALIGN WITH A RECTANGULAR STRUCTURE KNOCKOUT.
7. SHRINKAGE AND TEMPERATURE REINFORCEMENT SHALL BE PROVIDED IN THE TOPS OF SLABS. THE TOTAL AREA OF REINFORCEMENT PROVIDED SHALL BE AT LEAST 0.125 SQUARE INCHES PER FOOT IN EACH DIRECTION. THE MAXIMUM SPACING OF THIS REINFORCEMENT SHALL NOT EXCEED 18 INCHES.
8. THE DETAILS SHOWN IN THE PLAN VIEW FOR PRECAST CONCRETE ROUND STRUCTURES SHALL ALSO BE USED FOR CONVERTING MANHOLES TO CATCH BASINS.
9. FOR CATCH BASIN TOPS, SEE DRAWING NO. DGS-03.



PRECAST CONCRETE TYPE "C" AND "C-L" CATCH BASIN
(UNDER 10' DEEP SHOWN)

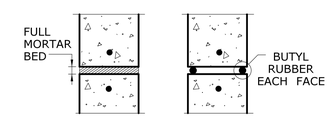


PLAN
(SEE NOTE 9)

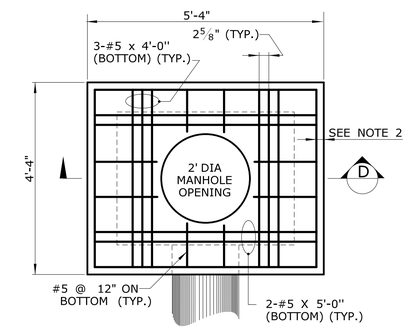


SECTION C

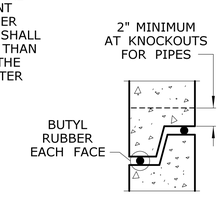
PRECAST CONCRETE TYPE "C" AND "C-L" ROUND STRUCTURE
(SEE NOTE 6)



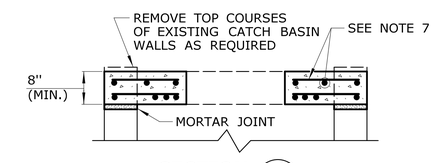
MORTAR JOINT DETAIL | **BUTYL RUBBER JOINT DETAIL**



PLAN



SHIP LAP JOINT DETAIL
(FOR USE WITH ROUND STRUCTURES ONLY)



SECTION D

TOP SLAB TO CONVERT CATCH BASIN TO MANHOLE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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CHECKED BY: JDA
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_DGS.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Matthew Vaz

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

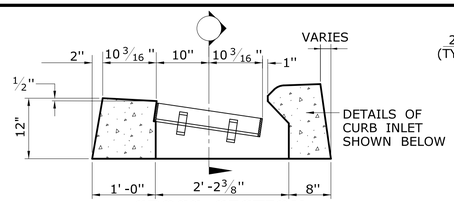
TOWN: NORWICH AND MONTVILLE

DRAWING TITLE: PRECAST CATCH BASIN & ROUND STRUCTURE

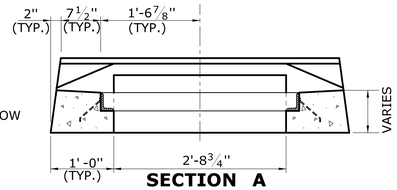
PROJECT NO. 0103-0272
DRAWING NO. DGS-04
SHEET NO. 03.04

GENERAL NOTES:

1. FOR DETAILS OF FRAMES AND GRATES, SEE DRAWING NO. DGS-04.
2. ALL BARS SHALL HAVE A MINIMUM 2" COVER.

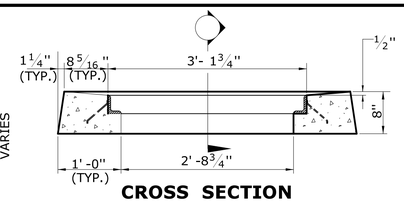


CROSS SECTION



SECTION A

TYPE "C" CATCH BASIN TOP



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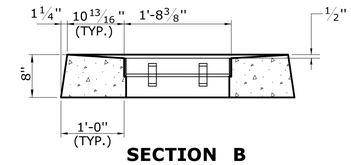
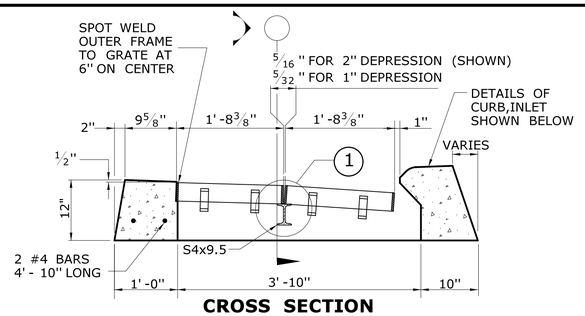
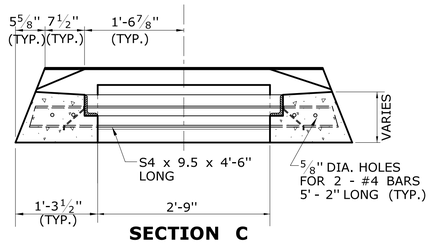


SECTION B

TYPE "C-L" CATCH BASIN TOP

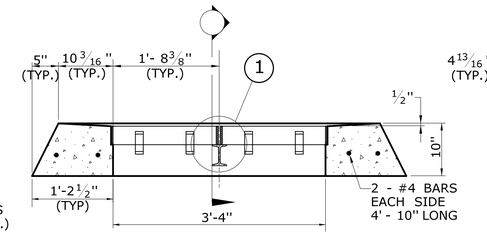


CROSS SECTION



SECTION C

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



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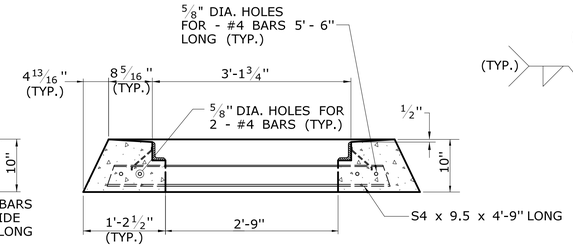
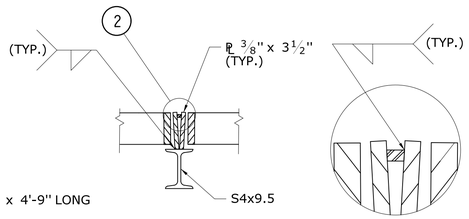
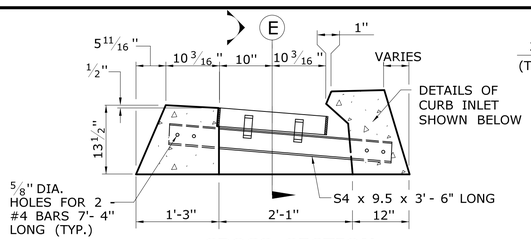


SECTION D

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



DETAIL "1" DETAIL "2"



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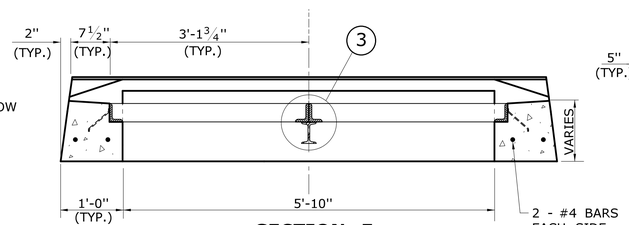
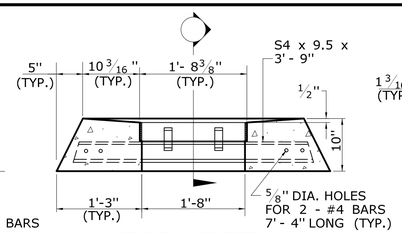
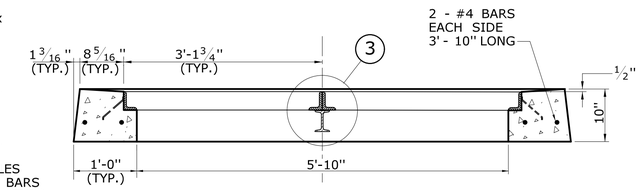


SECTION E

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

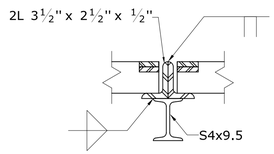


CROSS SECTION

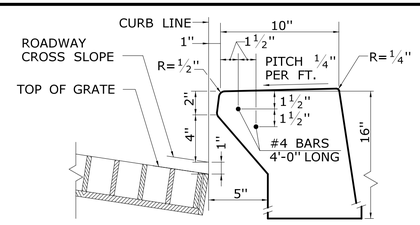


SECTION F

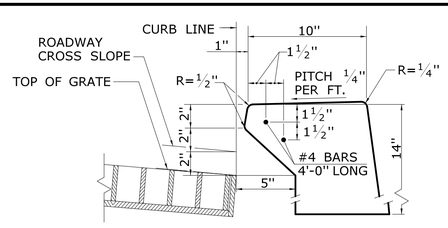
TYPE "C-L" CATCH BASIN DOUBLE GRATE - TYPE II TOP



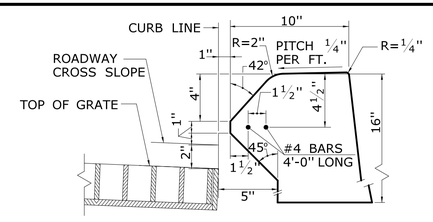
DETAIL "3"



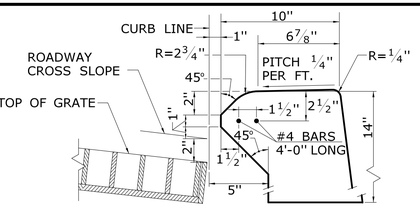
INLET WITH 6" CONCRETE OR STONE CURBING FOR TYPE "C" CB



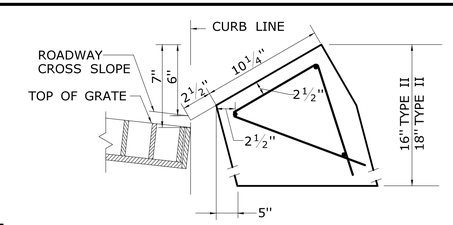
INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB



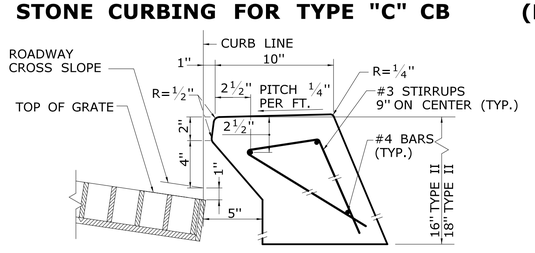
INLET WITH 6" BITUMINOUS CONCRETE LIP CURBING FOR TYPE "C" CB



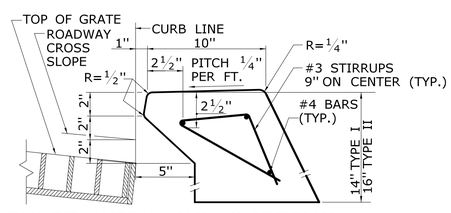
INLET WITH 4" CONCRETE PARK CURBING FOR TYPE "C" CB



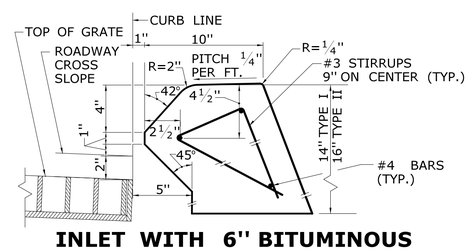
INLET WITH GRANITE SLOPE CURB FOR TYPE "C" CB



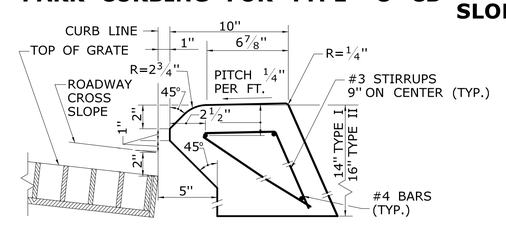
INLET WITH 6" CONCRETE OR STONE CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



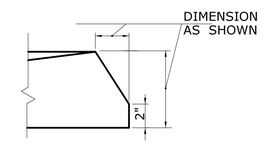
INLET WITH NO CURBING (PLAIN TYPE) FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



INLET WITH 6" BITUMINOUS CONCRETE LIP CURBING FOR TYPE "C" CB DOUBLE GRATE TYPE I & II



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



ALTERNATE CONSTRUCTION OF TYPE II TOP

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN
CHECKED BY: JDA
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_DGS.dgn

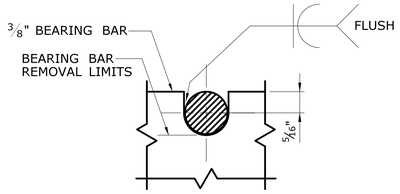
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Matthew Paul

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN: NORWICH AND MONTVILLE

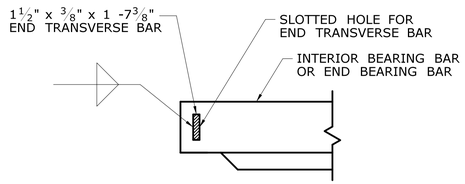
DRAWING TITLE: CATCH BASIN TOPS TYPE "C" & "C-L"

PROJECT NO. 0103-0272
DRAWING NO. DGS-07
SHEET NO. 03.05

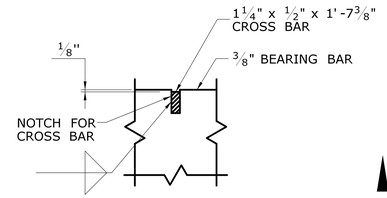


NOTE:
5/8" DIA. ROUND BAR SHALL CONTACT BEARING BAR AT BOTTOM AND BE FLUSH AT TOP.

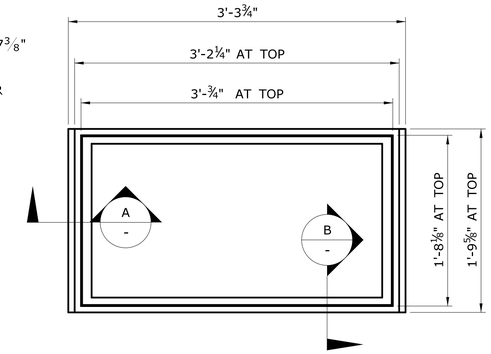
ROUND BAR ATTACHMENT
CATCH BASIN GRATE TYPE A



END TRANSVERSE BAR ATTACHMENT
CATCH BASIN GRATE TYPE A AND B



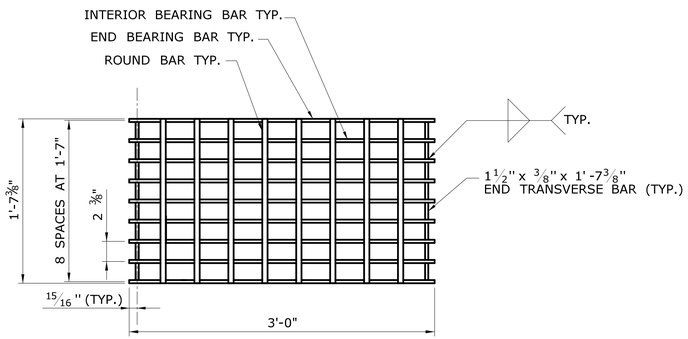
CROSS BAR ATTACHMENT
CATCH BASIN GRATE TYPE B



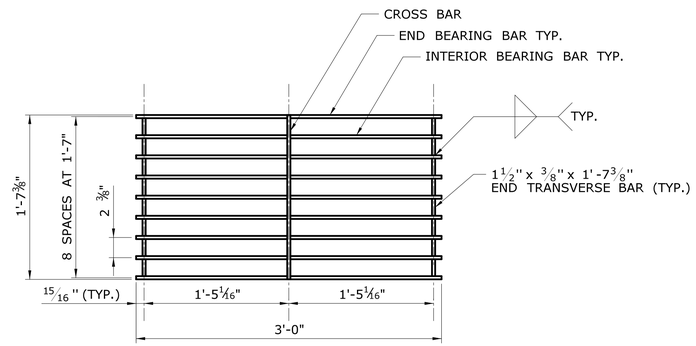
PLAN

GENERAL NOTES:

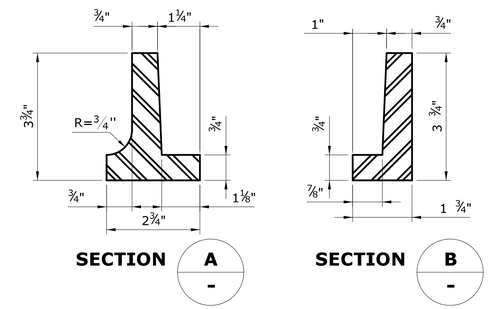
1. STEEL OR CAST IRON SHALL BE USED FOR FRAMES. STEEL SHALL BE USED FOR TYPE "A" AND "B" GRATES.
2. TYPE "A" GRATES SHALL BE USED ON ALL ROADWAYS WHERE BICYCLE TRAFFIC IS ALLOWED OR ON HEAVY DUTY LOCK DOWN TOPS AS DIRECTED BY THE ENGINEER.
3. TYPE "B" GRATES SHALL BE USED ON ALL LIMITED ACCESS HIGHWAYS, RAMPS AND WHERE BICYCLE TRAFFIC IS NOT ALLOWED OR AS DIRECTED BY THE ENGINEER.
4. DO NOT GALVANIZE CAST IRON FRAMES.
5. DIMENSIONAL TOLERANCES SHALL BE ± 1/16 INCH.
6. ALL STEEL BARS SHALL BE WELDED AT ALL INTERSECTIONS.



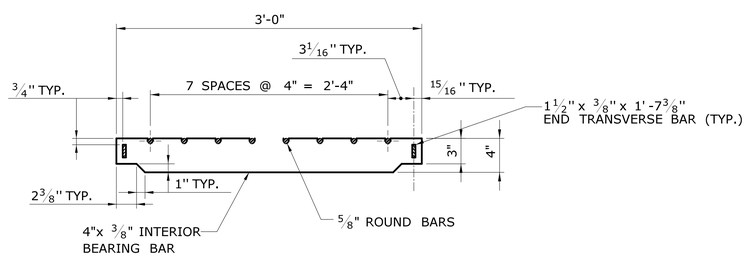
PLAN



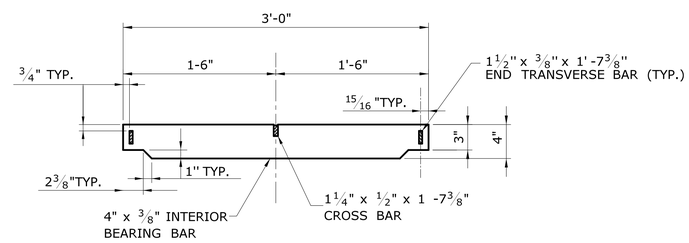
PLAN



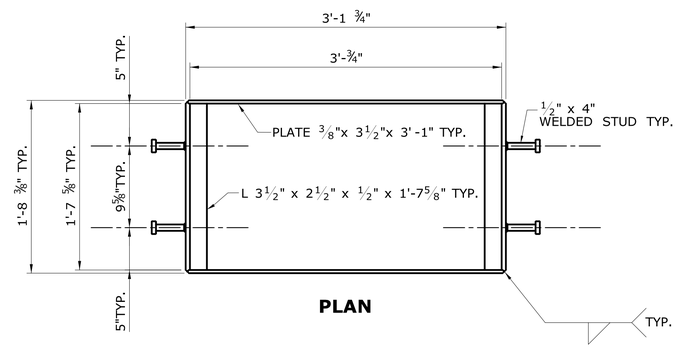
CAST IRON FRAME ALTERNATE



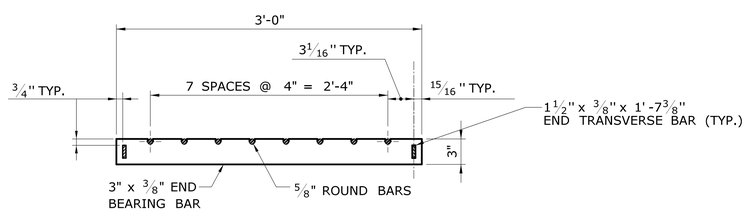
ELEVATION- INTERIOR BEARING BAR



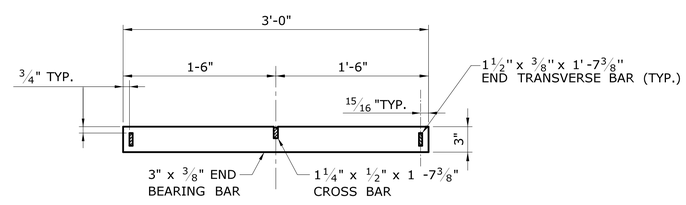
ELEVATION- INTERIOR BEARING BAR



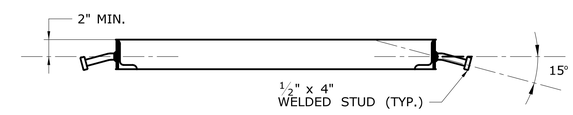
PLAN



ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE A



ELEVATION- END BEARING BAR
CATCH BASIN GRATE TYPE B



WELDED STUD ANCHOR DETAILS
STEEL FRAME

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN
CHECKED BY: JDA
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_DGS.dgn

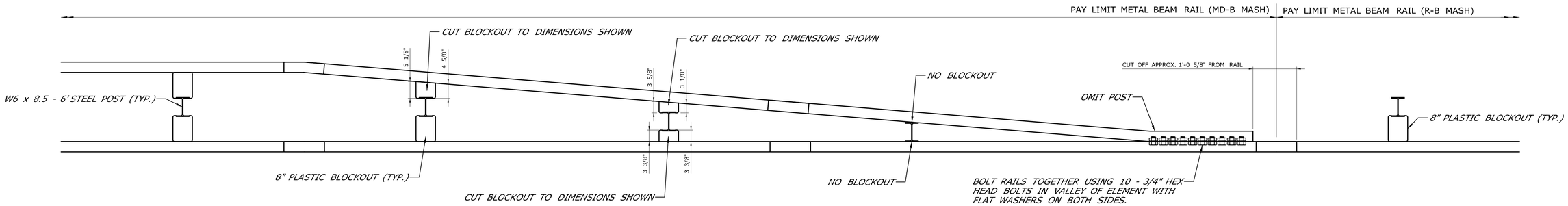
SIGNATURE/ BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Matthew Paul

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

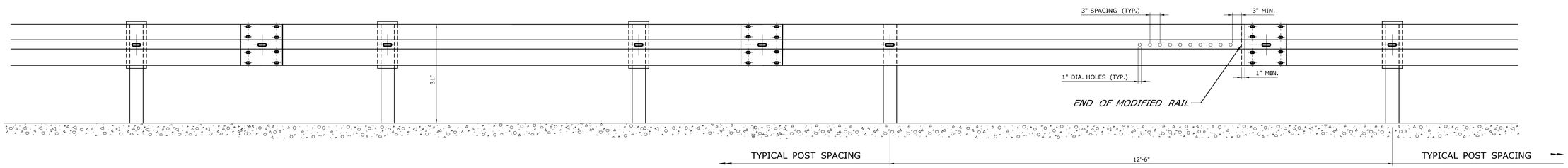
TOWN: NORWICH AND MONTVILLE

DRAWING TITLE: CATCH BASIN FRAMES AND GRATES

PROJECT NO. 0103-0272
DRAWING NO. DGS-08
SHEET NO. 03.06

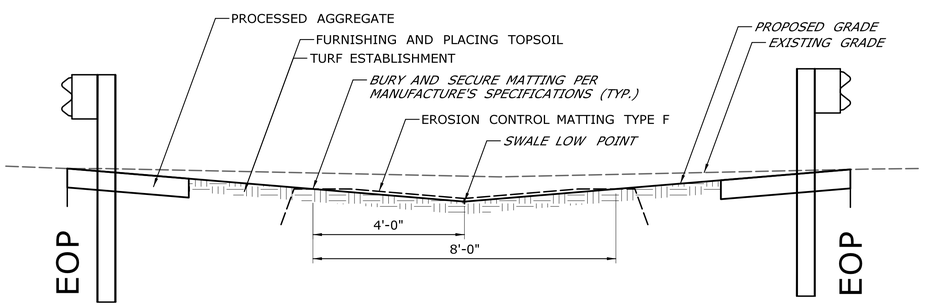


PLAN



ELEVATION

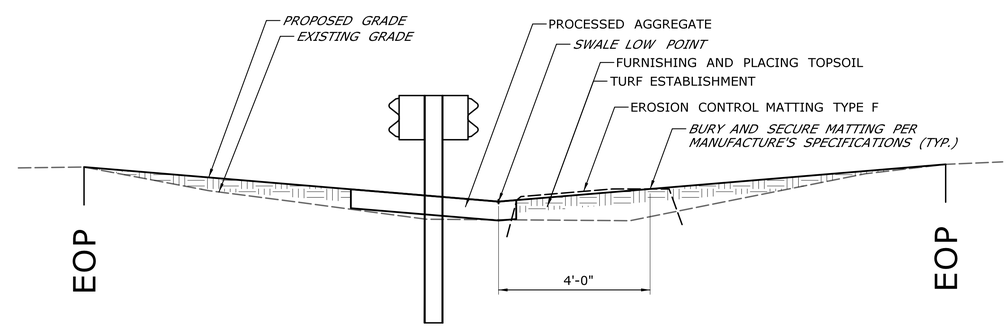
TRANSITION DETAIL BETWEEN METAL BEAM RAIL (MD-B MASH) AND METAL BEAM RAIL (R-B MASH)



GRASS SWALE DETAIL

1) APPROXIMATE STATION LOCATION OF "GRASS SWALE":

103+50 - 104+50	115+00 - 121+00	124+50 - 127+00
147+00 - 149+50	155+00 - 158+50	160+00 - 161+50
166+00 - 167+50	170+00 - 171+50	173+00 - 179+00
194+25 - 212+00	218+00 - 229+50	281+00 - 282+50
313+00 - 316+00	322+50 - 327+00	366+75 - 370+50



GRASS SWALE ADJACENT TO PROCESSED AGGREGATE FOR GUIDERAIL DETAIL

1) EROSION CONTROL MATTING LIMITS SHALL EXTEND 4' TO THE LEFT AND TO THE RIGHT OF THE SWALE LOW POINT, BUT SHALL NOT BE PLACED ON TOP OF PROCESSED AGGREGATE WHEN PRESENT
2) APPROXIMATE STATION LOCATIONS OF "GRASS SWALE ADJACENT TO PROCESSED AGGREGATE FOR GUIDERAIL":

104+50 - 115+00	127+00 - 141+00	144+00 - 147+00
187+20 - 194+25	229+50 - 281+00	288+00 - 313+00
316+50 - 322+50	327+00 - 331+00	338+00 - 351+90
352+90 - 366+75	370+50 - 373+50	

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: CJG
CHECKED BY:
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_MDS.dgn

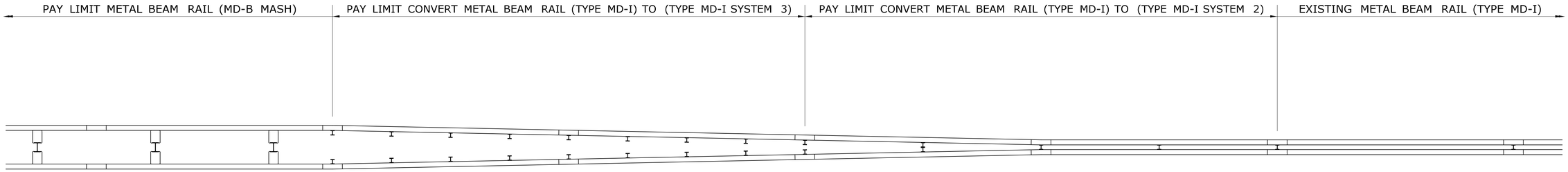
SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
Matthew Paul

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

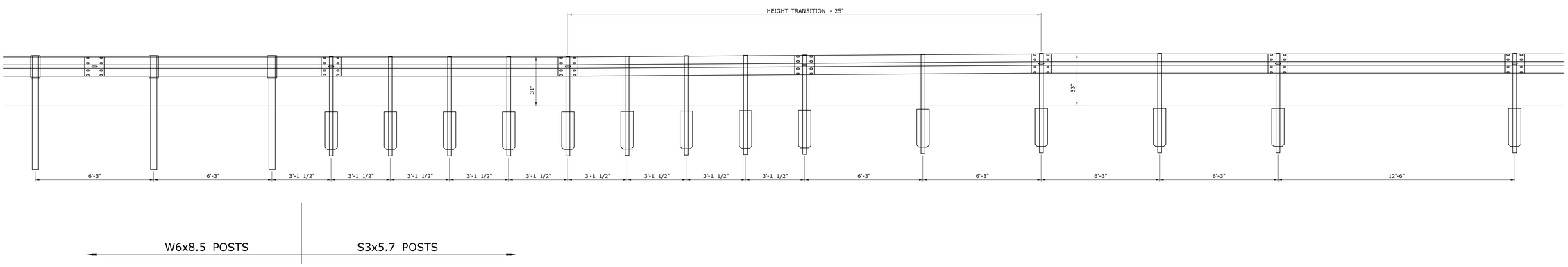
TOWN:
NORWICH AND MONTVILLE

DRAWING TITLE:
MISC. DETAILS

PROJECT NO. 0103-0272
DRAWING NO. MDS-01
SHEET NO. 03.07



PLAN



ELEVATION

METAL BEAM RAIL MD-B MASH TRANSITION TO METAL BEAM RAIL MD-I

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_MDS.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Matthew Paul

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

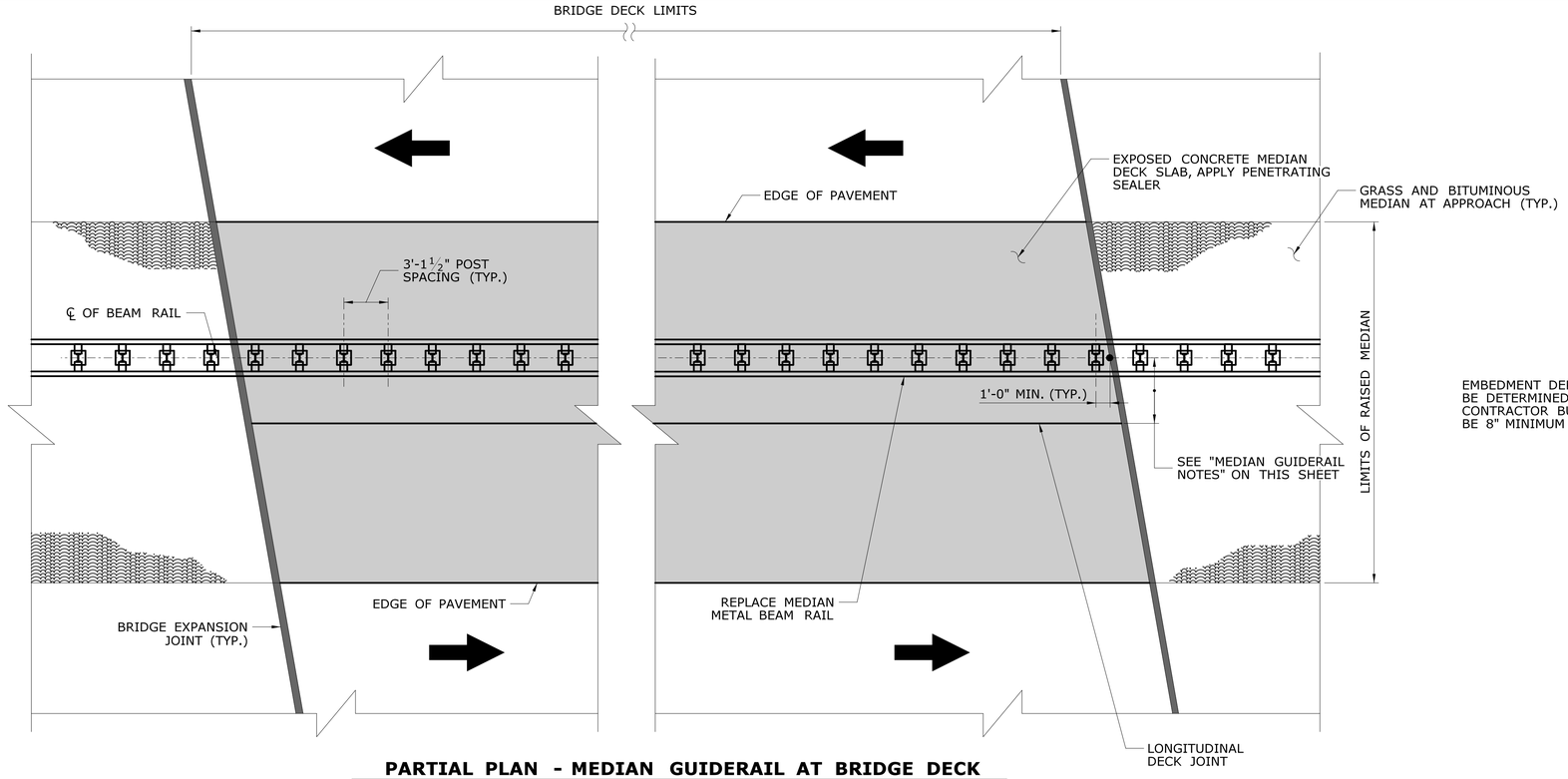
TOWN: **NORWICH AND MONTVILLE**

DRAWING TITLE: **MISC. DETAILS**

PROJECT NO. **0103-0272**

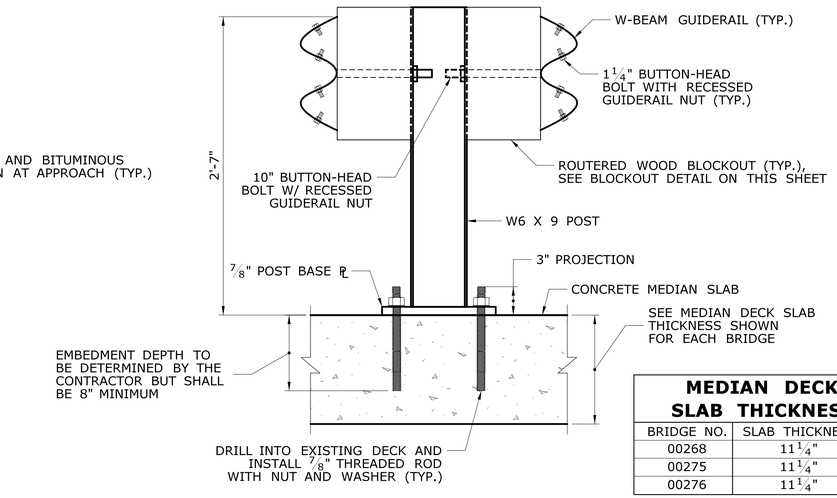
DRAWING NO. **MDS-02**

SHEET NO. **03.08**



PARTIAL PLAN - MEDIAN GUIDERAIL AT BRIDGE DECK

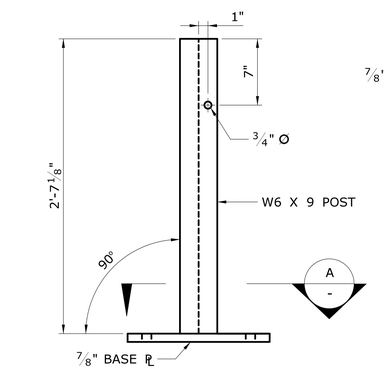
SCALE: 3/16" = 1'-0"



PROFILE - MEDIAN GUIDERAIL

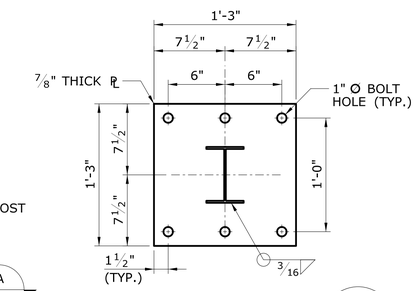
SCALE: 1½" = 1'-0"

MEDIAN DECK SLAB THICKNESS	
BRIDGE NO.	SLAB THICKNESS (IN)
00268	11¼"
00275	11¼"
00276	11¼"



ELEVATION - POST DETAIL

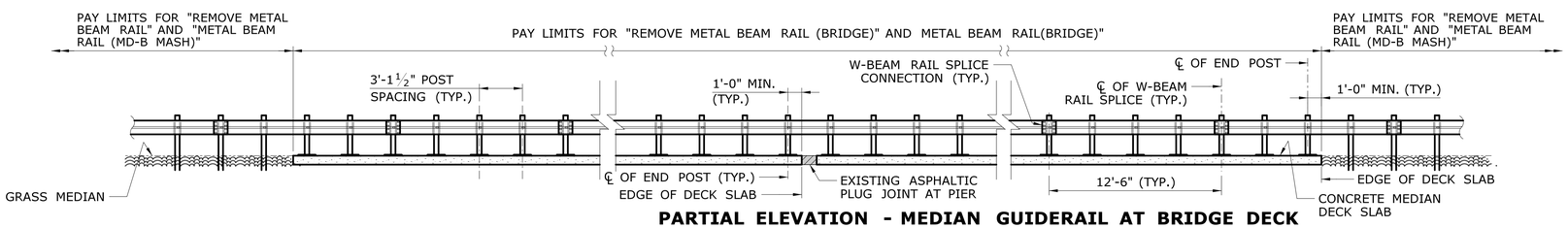
SCALE: 1½" = 1'-0"



PLAN - PLATE DETAIL

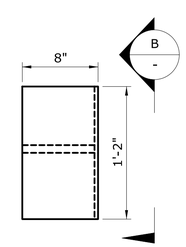
SCALE: 1½" = 1'-0"

A
-



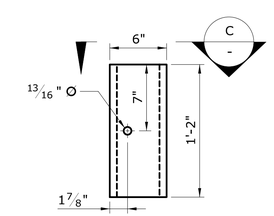
PARTIAL ELEVATION - MEDIAN GUIDERAIL AT BRIDGE DECK

SCALE: 3/16" = 1'-0"



WOOD BLOCKOUT DETAIL

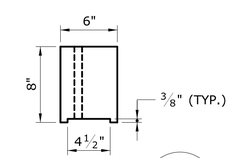
SCALE: 1½" = 1'-0"



SECTION

SCALE: 1½" = 1'-0"

B
-



SECTION

SCALE: 1½" = 1'-0"

C
-

GENERAL DESCRIPTION OF BRIDGE WORK

1. REMOVE EXISTING METAL BEAM RAIL ON BRIDGE NOS. 00268, 00275, AND 00276 AND GRIND ANY REMAINING HARDWARE TO BE FLUSH WITH TOP OF EXPOSED CONCRETE BRIDGE MEDIAN AND COAT WITH EPOXY. THIS WORK SHALL BE INCLUDED FOR PAYMENT UNDER THE ITEM "REMOVE METAL BEAM RAIL (BRIDGE)."
2. CONSTRUCT MEDIAN GUIDERAIL ON BRIDGE NOS. 00268, 00275, AND 00276, INCLUDING DRILLING AND INSTALLING OF THREADED RODS SHALL BE INCLUDED FOR PAYMENT UNDER THE ITEM "METAL BEAM RAIL (BRIDGE)."
3. APPLY PENETRATING SEALER PROTECTIVE COMPOUND TO EXPOSED CONCRETE MEDIAN DECK SLAB OF BRIDGE NOS. 00268, 00271, 00275, 00276, AND 00277.

MEDIAN GUIDERAIL NOTES

1. THE DISTANCE FROM THE LONGITUDINAL DECK JOINT TO ℄ GUIDERAIL SHALL BE NO CLOSER THAN 3'-6".
2. RAIL HEIGHT CONSTRUCTION TOLERANCE IS ±½".
3. ALL STEEL BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A36 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123 REQUIREMENTS.
4. ALL MATERIAL AND HARDWARE SHALL COMPLY WITH THIS PLAN SHEET AND WITH THE SPECIFICATIONS. SHEET HW-910_20 SHALL ONLY APPLY FOR MATERIALS AND HARDWARE NOT SPECIFIED IN THIS SHEET OR IN THE SPECIFICATIONS.

GUIDERAIL ANCHORAGE NOTES

1. FULLY THREADED ROD SHALL CONFORM TO THE REQUIREMENTS OF ASTM A449 AND SHALL BE GALVANIZED IN ACCORANCE WITH ASTM F2329 OR ASTM B695, CLASS 55.
2. THREADED ROD WITH AN ADHESIVE BONDING MATERIAL SHALL BE CAPABLE OF RESISTING THE FOLLOWING UNFACTORED LOADS:

   TENSILE LOAD = 9.5 KIPS
   SHEAR LOAD = 2 KIPS

3. HOLE DEPTH AND DIAMETER SHALL BE DETERMINED BY THE MANUFACTURER OF THE ADHESIVE BONDING MATERIAL.
4. THE CONTRACTOR SHALL CONSIDER 2500 PSI OF CONCRETE STRENGTH FOR THE EXISTING MEDIAN SLAB IN DETERMINING THE EMBEDMENT DEPTH OF THE THREADED RODS.
5. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO AVOID DRILLING EXISTING REINFORCEMENT.
6. THE ANCHORED TEST THREADED RODS SHALL BE TESTED IN TENSION WITH A FIELD TEST LOAD EQUAL TO 19 KIPS MINIMUM BUT NO MORE THAN 65 KIPS, SEE "METAL BEAM RAIL(BRIDGE)" SPECIAL PROVISION.

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: 5/7/2019

DESIGNER/DRAFTER: M.THOMAS/R.BASAR
CHECKED BY: R.MARTIN/R.BASAR
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\SB_Median Barrier.dgn

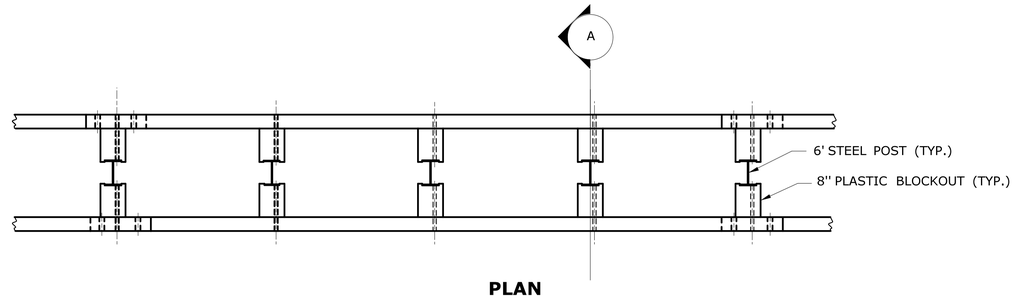
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Matthew Vail

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

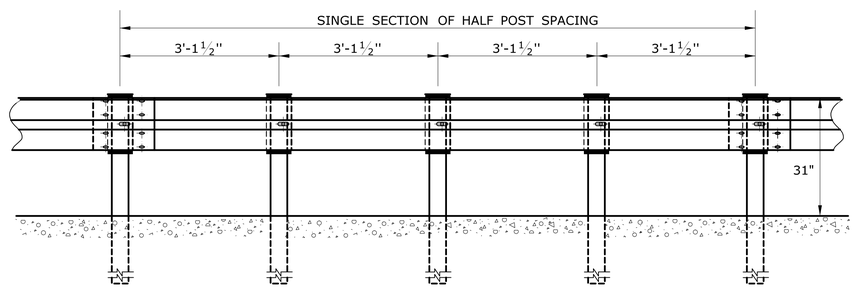
TOWN: NORWICH AND MONTVILLE

DRAWING TITLE: MEDIAN GUIDERAIL BRIDGE DETAILS

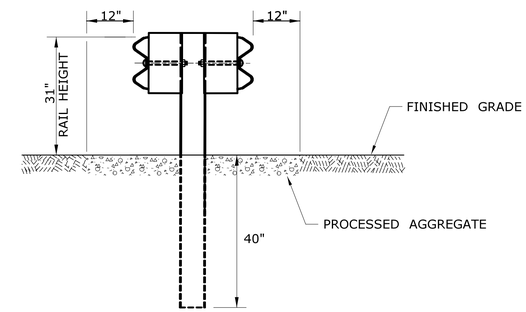
PROJECT NO. 0103-0272
DRAWING NO. MDS-03
SHEET NO. 03.09



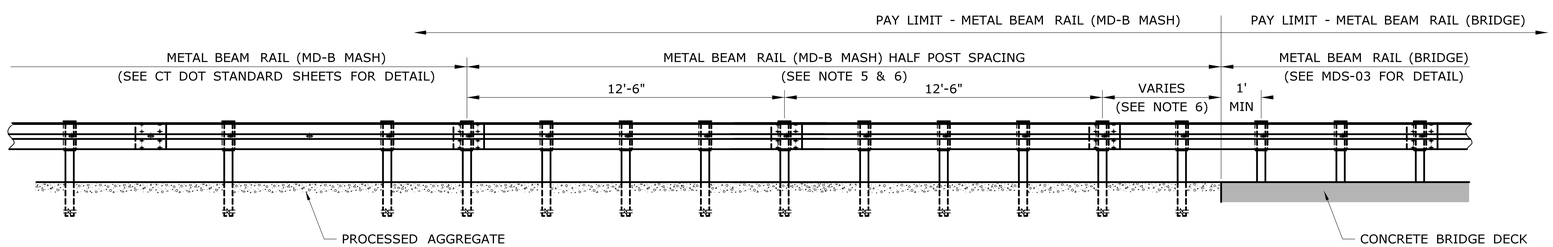
PLAN



ELEVATION



SECTION A -



GUIDERAIL SYSTEM LAYOUT AND PAY LIMITS AT BRIDGE NOS. 00268, 00275 AND 00276

METAL BEAM RAIL (MD-B MASH) HALF POST SPACING DETAILS

1) SEE SHEET HW-910_20 FOR HARDWARE AND W-BEAM DELINEATOR DETAILS.

2) W-BEAM DELINEATOR MAY BE INSTALLED AT POST BOLT CONNECTION TO MAINTAIN APPROPRIATE DELINEATOR SPACING.

3) SEE SHEET HW-910_22 FOR DETAILS PERTAINING TO LAP W-BEAM RAIL SECTIONS, RAIL MOUNTING, AND DRILLING IN ROCK FOR GUIDERAIL POSTS.

4) RAIL HEIGHT CONSTRUCTION TOLERANCE IS +/- 1 INCH.

5) INSTALL TWO 12'-6" SECTIONS OF "METAL BEAM RAIL (MD-B MASH) HALF POST SPACING" AT BOTH THE UPSTATION AND DOWNSTATION LIMITS OF THE PROPOSED "METAL BEAM RAIL (BRIDGE)" AT BRIDGE NOS. 00268, 00275 AND 00276.

6) INSTALL HALF POST SPACING AS NECESSARY BETWEEN THE TWO SECTIONS OF "METAL BEAM RAIL (MD-B MASH) HALF POST SPACING" AND "METAL BEAM RAIL (BRIDGE)".

7) "METAL BEAM RAIL HALF POST SPACING" SHALL BE MEASURED AND PAID FOR AS "METAL BEAM RAIL (MD-B MASH)."

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: CJG
CHECKED BY: EAJ
NOT TO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ..\Plan\HW_MSH_0103_0272_MDS.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
Matthew Paul

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN: NORWICH AND MONTVILLE

DRAWING TITLE: MISC DETAIL

PROJECT NO. 103-272
DRAWING NO. MDS-04
SHEET NO. 03.10

GENERAL NOTES

1) INSTALL CATCH BASIN SEDIMENT FILTER ON EACH CATCH BASIN WITHIN CONSTRUCTION ZONE PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES (SEE SPECIAL PROVISION 0219050A - CATCH BASIN SEDIMENT FILTER). A CONSTRUCTION ZONE IS DEFINED AS THE AREA OF THE MEDIAN PROTECTED BY TPCBC AS DETAILED IN DRAWING MPT-01.

2) CLEAN EXISTING CATCH BASINS OF SEDIMENT FOLLOWING THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES WITHIN CONSTRUCTION ZONE.

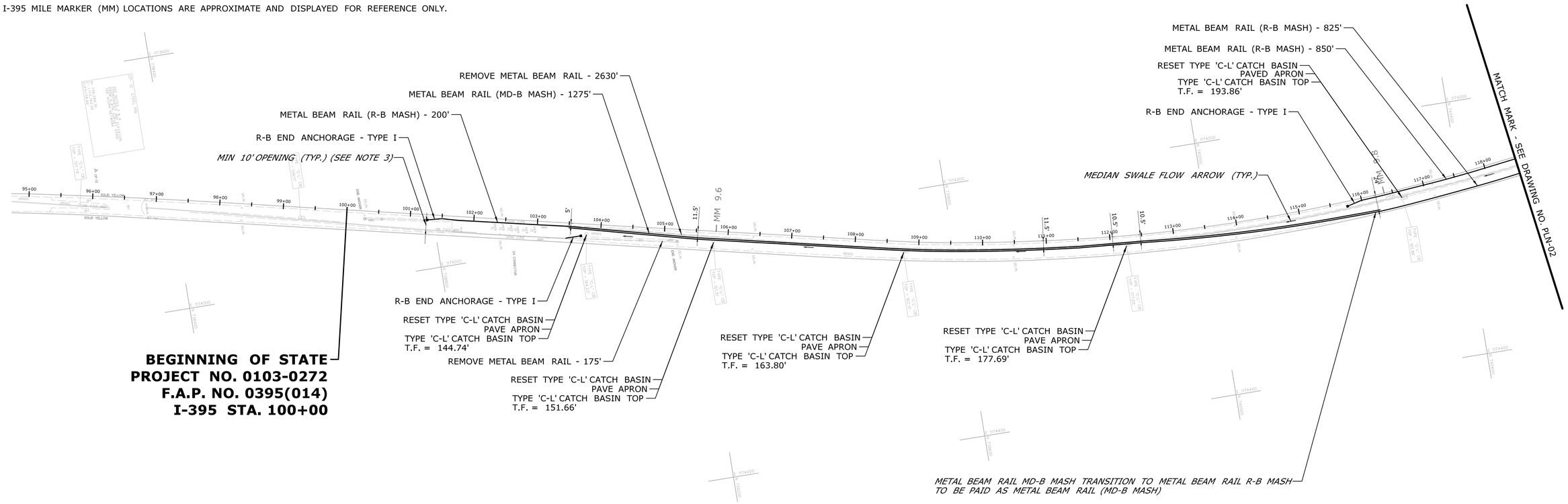
3) WHERE MEDIAN GUIDERAIL IS INSTALLED AT THE EOP IN BOTH DIRECTIONS OF TRAVEL, A MINIMUM 10' OPENING MUST EXIST BETWEEN THE MEDIAN GUIDERAIL TERMINAL IN ONE DIRECTION OF TRAVEL AND THE BACK POST OF THE MEDIAN GUIDERAIL IN THE OPPOSING DIRECTION OF TRAVEL. THIS IS FOR THE PURPOSE OF MAINTAINING ACCESS FOR MOWING AND BRIDGE INSPECTION EQUIPMENT.

4) PAVED APRONS ARE TO BE INSTALLED AT TYPE "C-L" CATCH BASINS IN MEDIAN PER HIGHWAY STANDARD SHEET HW-803_01A "PAVED APRONS".

5) TYPE DE-1 DELINEATORS ARE TO BE INSTALLED ALONG THE MEDIAN PER TRAFFIC STANDARD SHEET TR-1205_01 "DELINEATION, DELINEATORS AND OBJECT MARKER DETAILS". EXISTING DELINEATORS TO BE REMOVED DURING CONSTRUCTION.

6) EROSION CONTROL MATTING TYPE F TO BE INSTALLED WITHIN THE MEDIAN SWALE AS SHOWN ON DRAWING MDS-01 IN DETAILS "GRASS SWALE" & "GRASS SWALE ADJACENT TO PROCESSED AGGREGATE FOR GUIDERAIL".

7) I-395 MILE MARKER (MM) LOCATIONS ARE APPROXIMATE AND DISPLAYED FOR REFERENCE ONLY.



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: CJG
CHECKED BY: JMG
SCALE IN FEET 0 80 160
SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_PLN.dgn

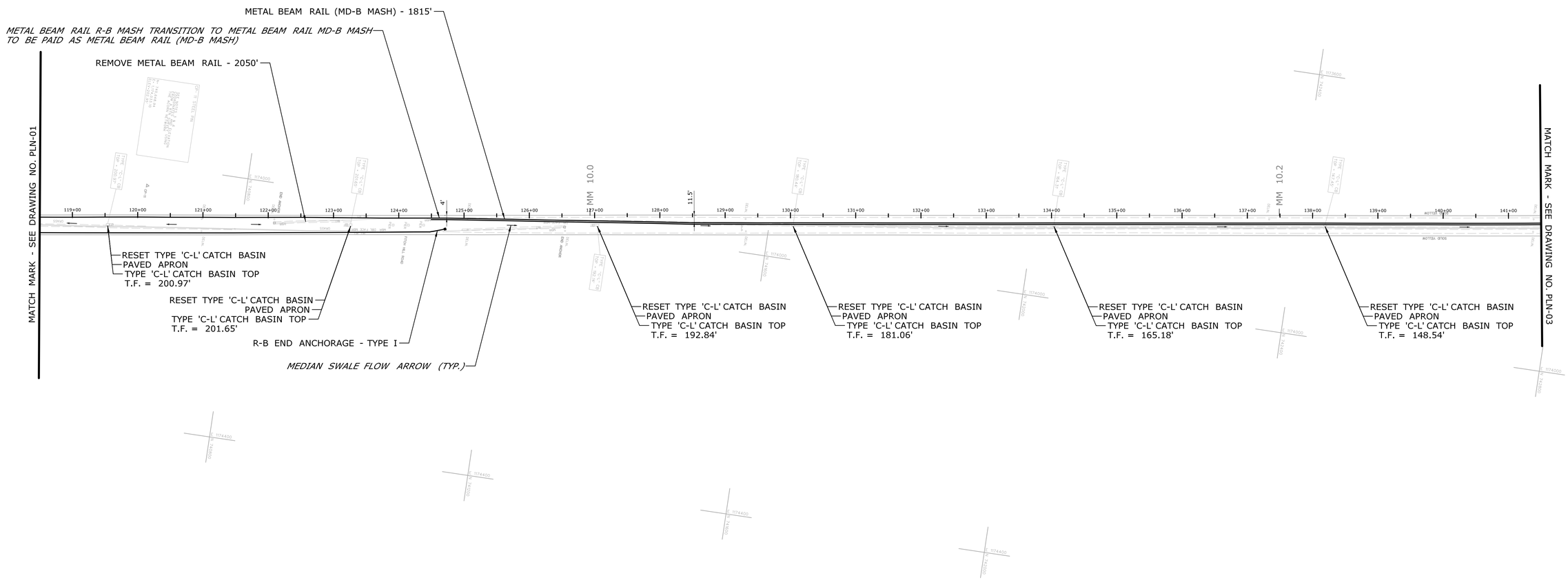
SIGNATURE/ BLOCK: OFFICE OF ENGINEERING
APPROVED BY: Matthew Paul

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN: NORWICH AND MONTVILLE

DRAWING TITLE: CONSTRUCTION PLAN

PROJECT NO. 0103-0272
DRAWING NO. PLN-01
SHEET NO. 03.11



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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: CJG

CHECKED BY: JMG

SCALE IN FEET 0 80 160

SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_PLN.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
Matthew Paul

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN:
NORWICH AND MONTVILLE

DRAWING TITLE:
CONSTRUCTION PLAN

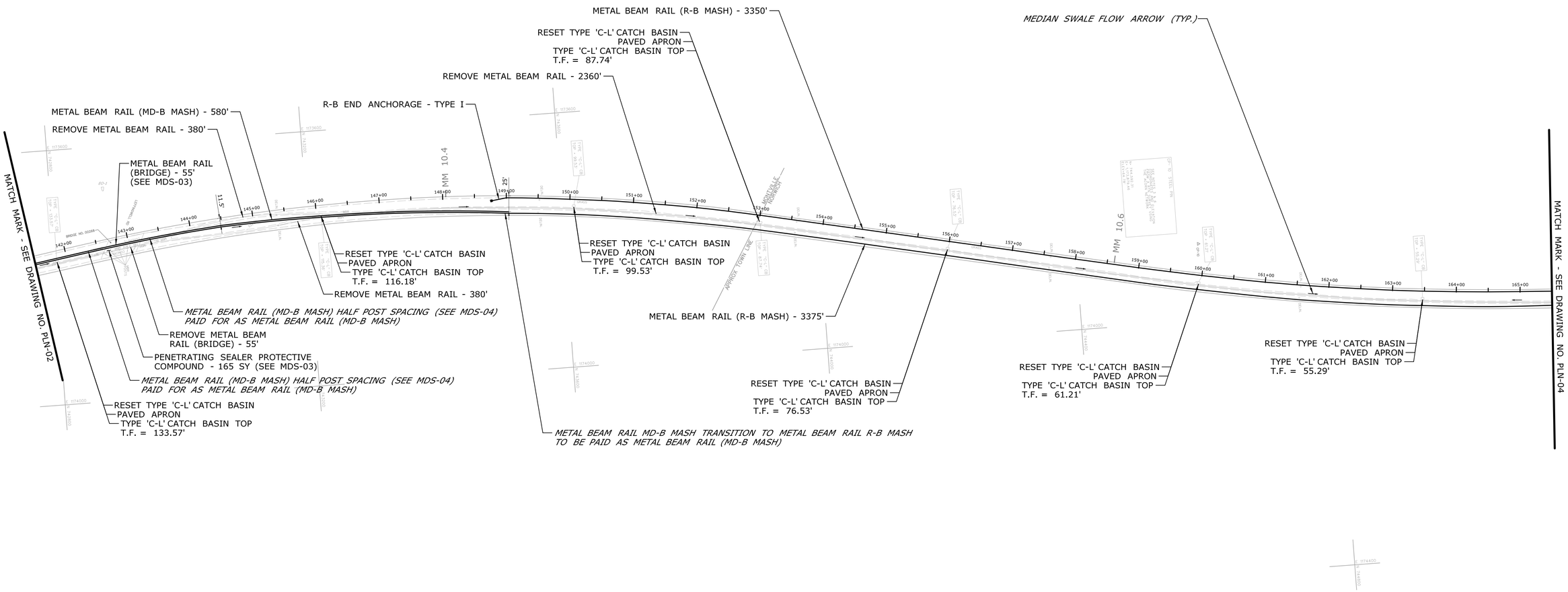
PROJECT NO. 0103-0272

DRAWING NO. PLN-02

SHEET NO. 03.12

NOTES

1) EXISTING OUTFALL "EO-1" LOCATED AT STA. 142+65L



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 6/11/2019

DESIGNER/DRAFTER: CJG

CHECKED BY: JMG

SCALE IN FEET
0 80 160
SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_PLN.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
Matthew Vail

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

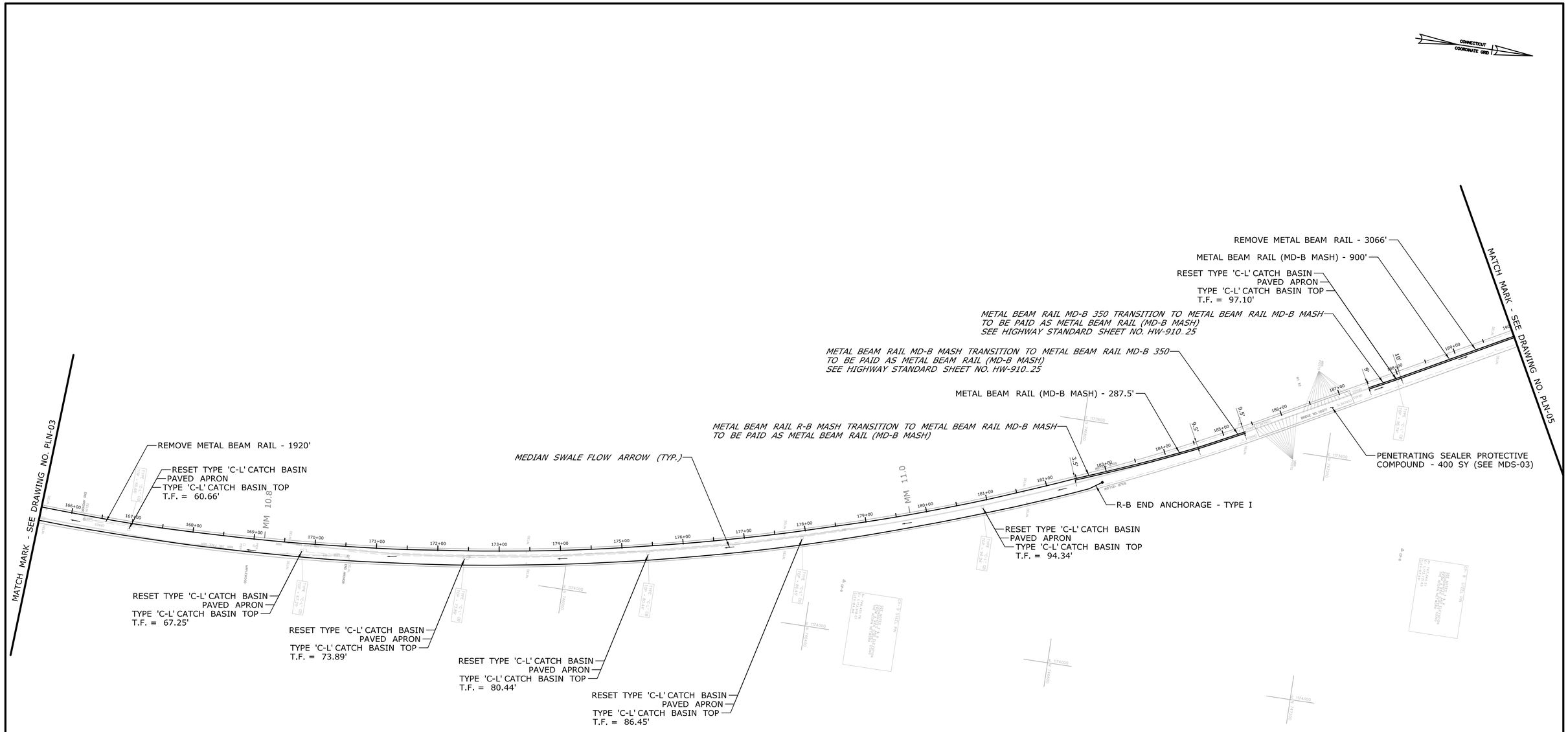
TOWN:
NORWICH AND MONTVILLE

DRAWING TITLE:
CONSTRUCTION PLAN

PROJECT NO. 0103-0272

DRAWING NO. PLN-03

SHEET NO. 03.13



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: CJG

CHECKED BY: JMG

SCALE IN FEET
0 80 160
SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_PLN.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
Matthew Peck

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN:
NORWICH AND MONTVILLE

DRAWING TITLE:
CONSTRUCTION PLAN

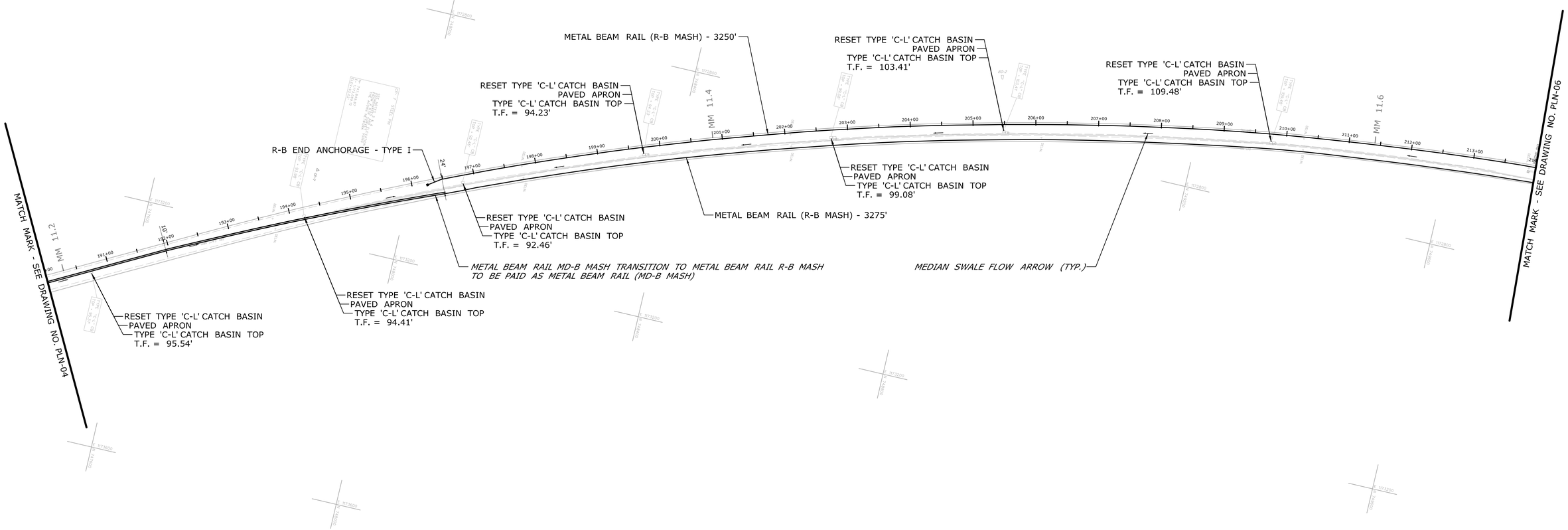
PROJECT NO. 0103-0272

DRAWING NO. PLN-04

SHEET NO. 03.14

NOTES

1) EXISTING OUTFALL "EO-2" LOCATED AT STA. 205+50l



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: CJG

CHECKED BY: JMG

SCALE IN FEET 0 80 160

SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_PLN.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN:
NORWICH AND MONTVILLE

DRAWING TITLE:
CONSTRUCTION PLAN

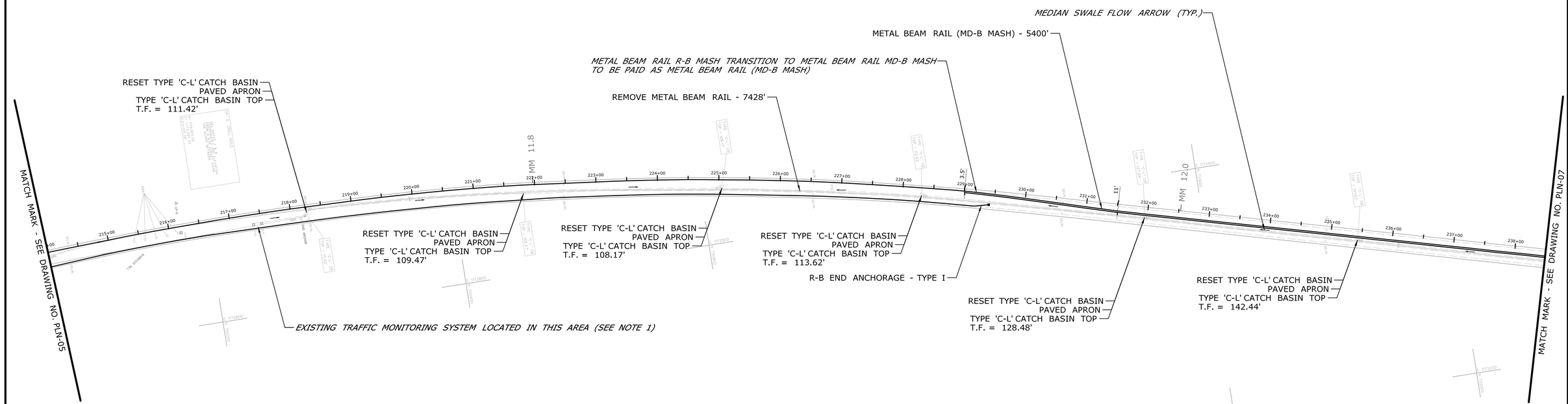
PROJECT NO. 0103-0272

DRAWING NO. PLN-05

SHEET NO. 03.15

NOTES

1) EXISTING TRAFFIC MONITORING SYSTEM LOCATED NEAR STA. 217+50. UNDERGROUND WIRING ASSOCIATED WITH THE TRAFFIC MONITORING SYSTEM ARE LOCATED WITHIN MEDIAN AND CONNECT TO TRAFFIC COUNTING LOOP DETECTORS LOCATED WITHIN THE ROADWAY. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO ENSURE NO UNDERGROUND WIRING IS DISTURBED DURING THE REMOVAL AND REINSTALLATION GUIDERAIL. ANY DAMAGE TO THE TRAFFIC MONITORING SYSTEM SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.



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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: CJG

CHECKED BY: JMG

SCALE IN FEET 0 80 160

SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_PLN.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Matthew Nash

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN: **NORWICH AND MONTVILLE**

DRAWING TITLE: **CONSTRUCTION PLAN**

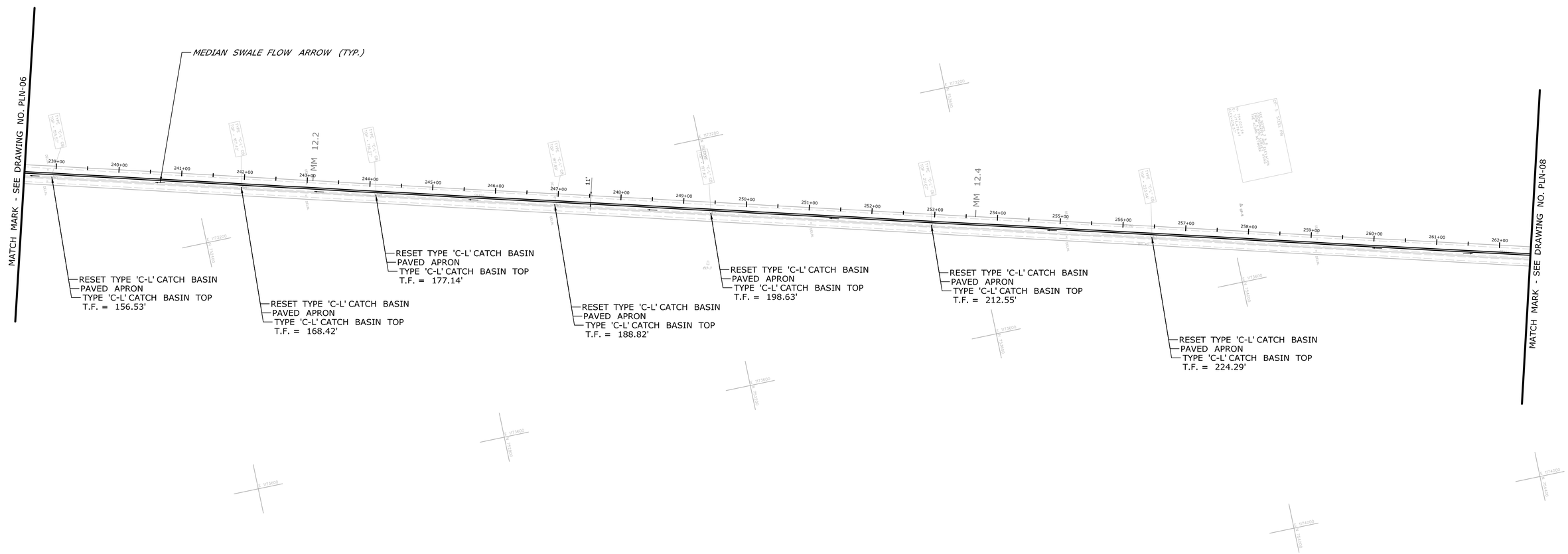
PROJECT NO. **0103-0272**

DRAWING NO. **PLN-06**

SHEET NO. **03.16**

NOTES

1) EXISITNG OUTFALL "E0-3" LOCATED AT STA. 249+40R



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: CJG

CHECKED BY: JMG

SCALE IN FEET
0 80 160
SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_PLN.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
Matthew Vail

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

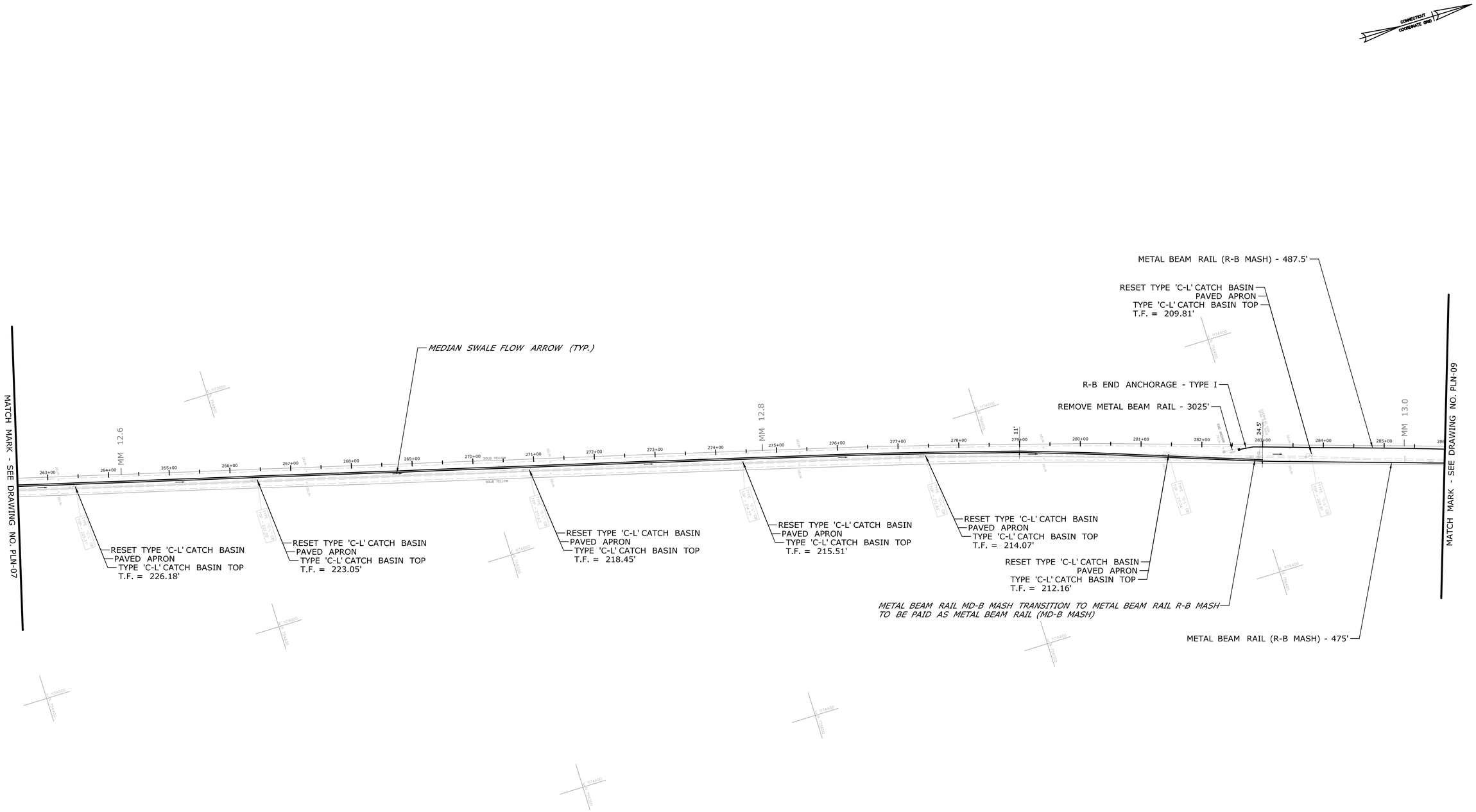
TOWN:
NORWICH AND MONTVILLE

DRAWING TITLE:
CONSTRUCTION PLAN

PROJECT NO. 0103-0272

DRAWING NO. PLN-07

SHEET NO. 03.17



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: CJG

CHECKED BY: JMG

SCALE IN FEET 0 80 160

SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_PLN.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Matthew Vaiuf

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN:

NORWICH AND MONTVILLE

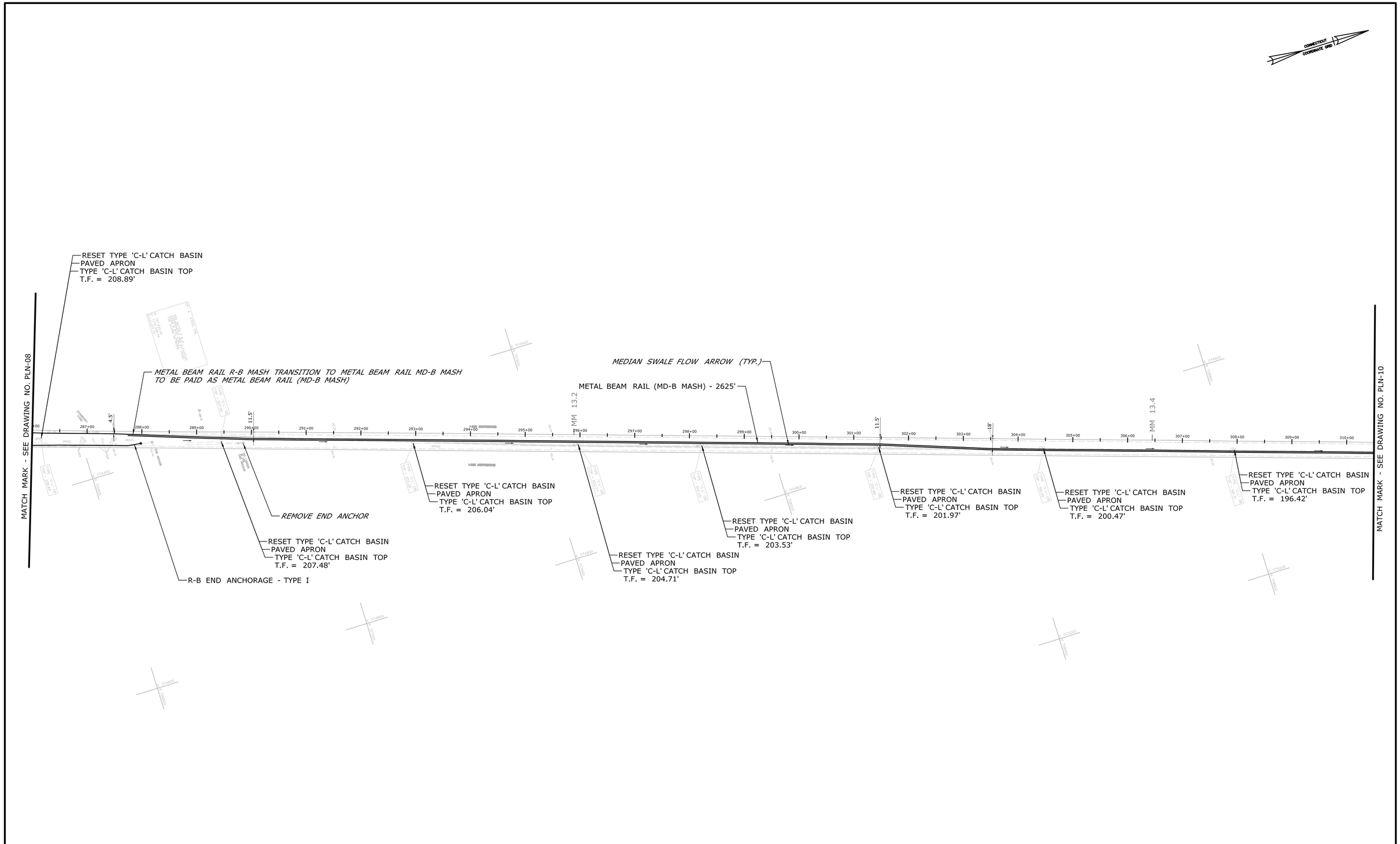
DRAWING TITLE:

CONSTRUCTION PLAN

PROJECT NO. **0103-0272**

DRAWING NO. **PLN-08**

SHEET NO. **03.18**



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: CJG

CHECKED BY: JMG

SCALE IN FEET 0 80 160

SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_PLN.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Matthew Vail

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN:

NORWICH AND MONTVILLE

DRAWING TITLE:

CONSTRUCTION PLAN

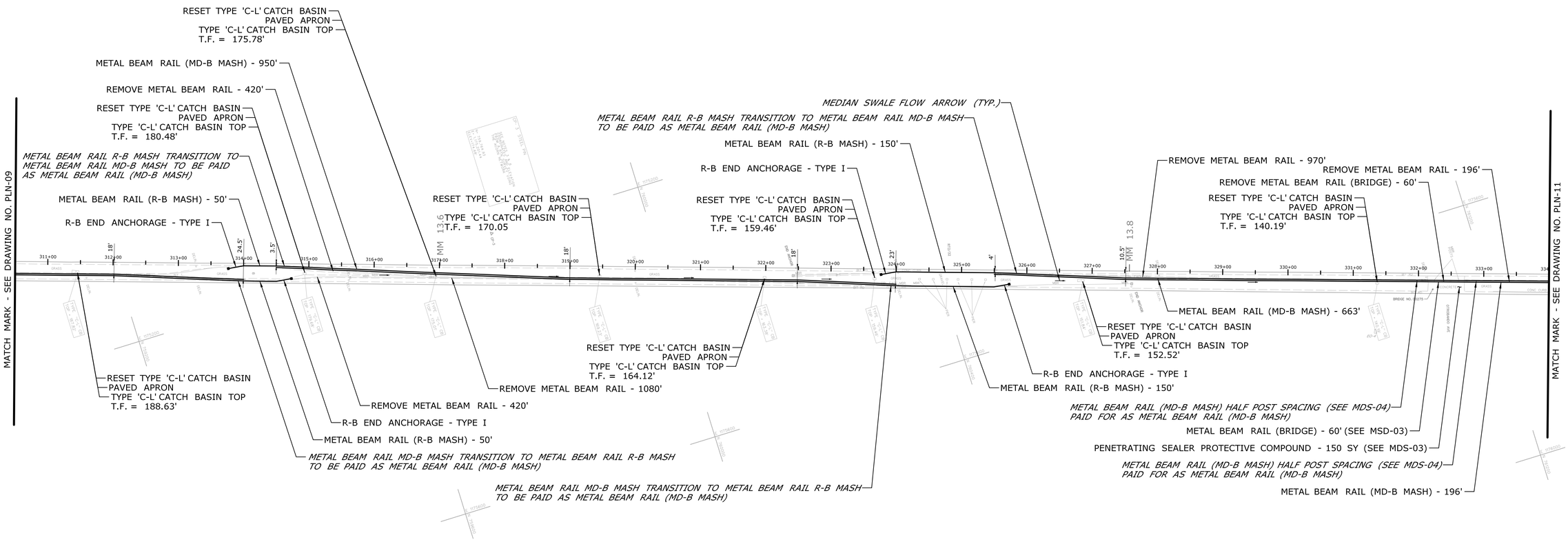
PROJECT NO. **0103-0272**

DRAWING NO. **PLN-09**

SHEET NO. **03.19**

NOTES

1) EXISTING OUTALL "EO-4" LOCATED AT STA. 331+35R



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: CJG

CHECKED BY: JMG

SCALE IN FEET 0 80 160

SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_PLN.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Matthew Nash

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN: NORWICH AND MONTVILLE

DRAWING TITLE: CONSTRUCTION PLAN

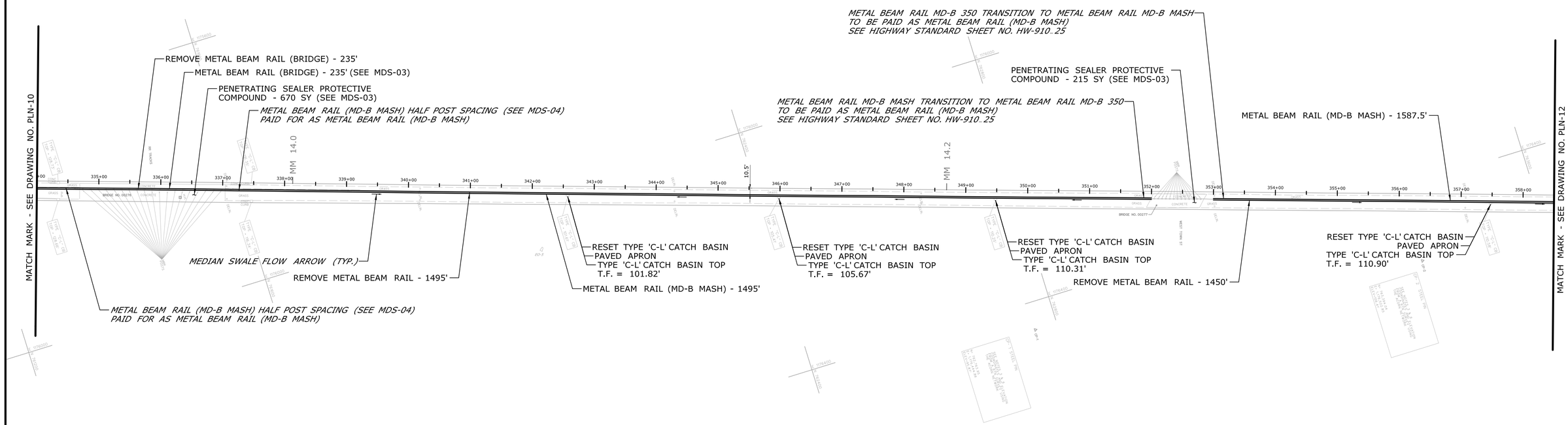
PROJECT NO. 0103-0272

DRAWING NO. PLN-10

SHEET NO. 03.20

NOTES

1) EXISTING OUTALL "EO-5" LOCATED AT STA. 342+15R



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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: CJG

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SCALE IN FEET
0 80 160
SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_PLN.dgn

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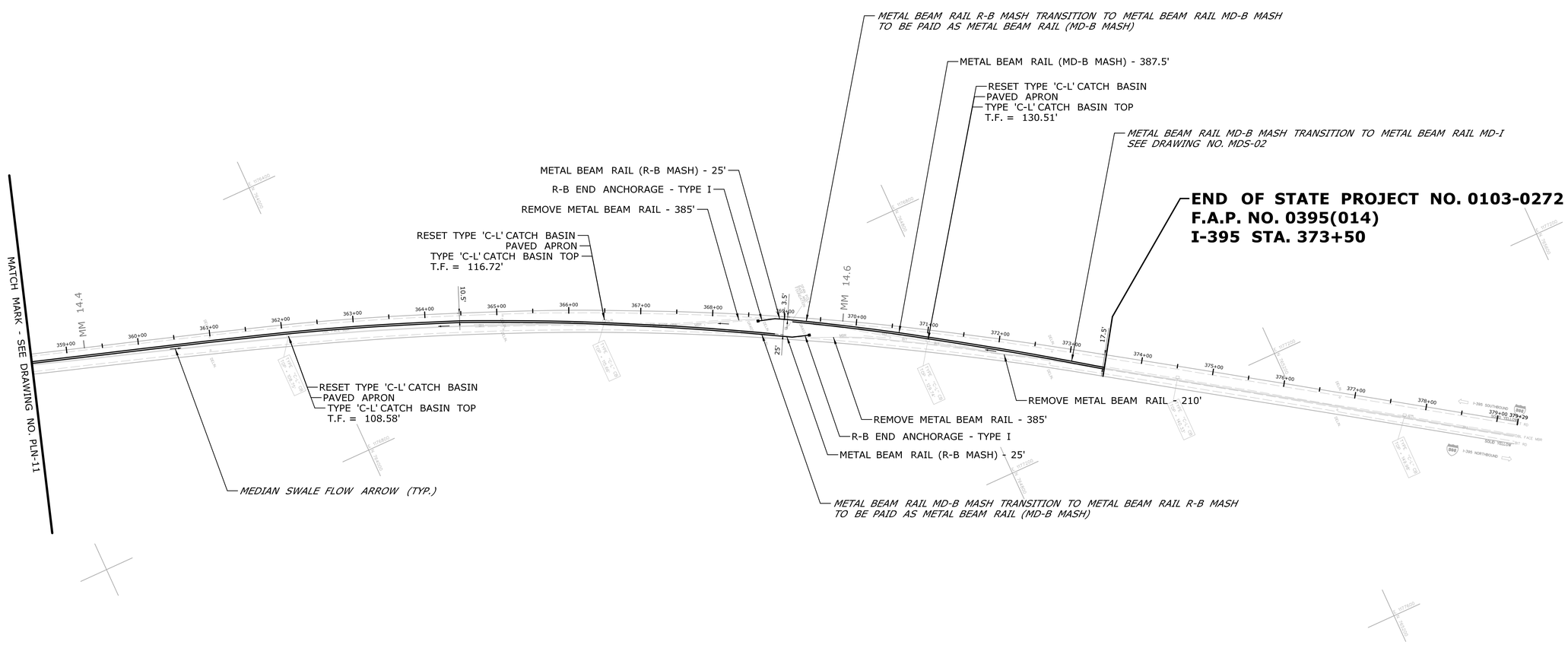
OFFICE OF ENGINEERING
APPROVED BY:

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN:
NORWICH AND MONTVILLE

DRAWING TITLE:
CONSTRUCTION PLAN

PROJECT NO. **0103-0272**
DRAWING NO. **PLN-11**
SHEET NO. **03.21**



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0 80 160
SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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APPROVED BY:

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN:
NORWICH AND MONTVILLE

DRAWING TITLE:
CONSTRUCTION PLAN

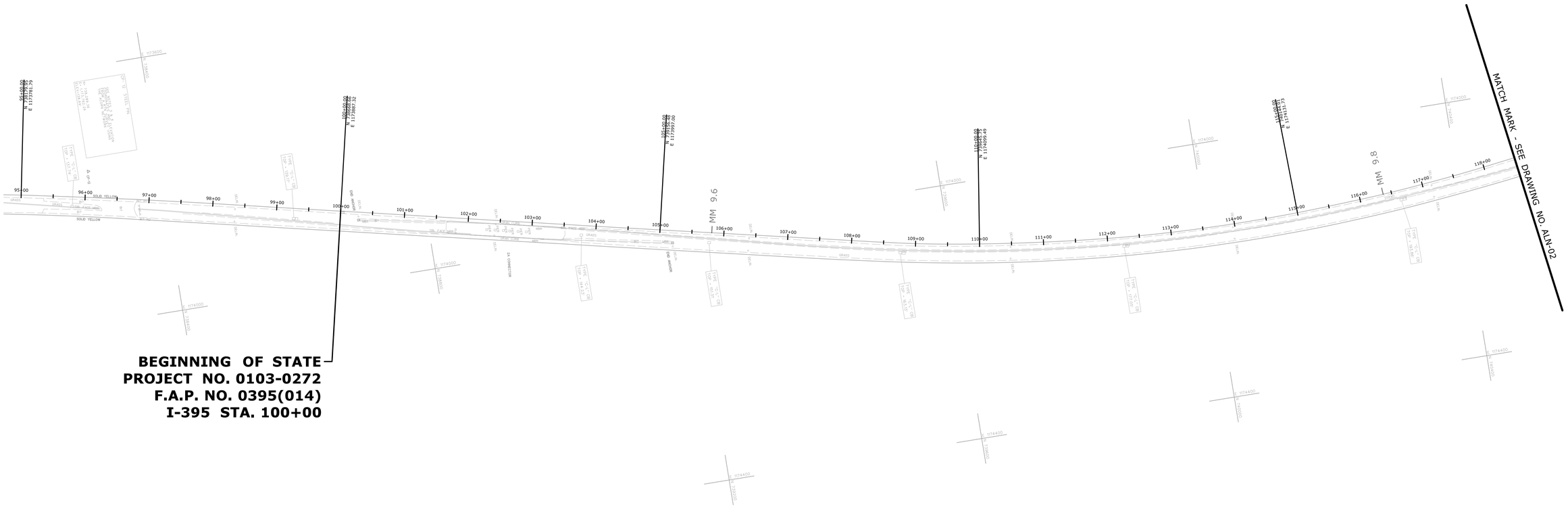
PROJECT NO. **0103-0272**
DRAWING NO. **PLN-12**
SHEET NO. **03.22**

GENERAL NOTES

1) THE ALIGNMENT SHOWN DIRECTLY MATCHES THE EXISTING SOUTHBOUND LEFT SHOULDER LINE.

2) INTERMEDIATE LOCATIONS ARE SHOWN TO ASSIST WITH LOCATING STATIONING. THE LOCATIONS SHOWN DO NOT REPRESENT CRITICAL POINTS OF THE ALIGNMENT.

3) I-395 MILE MARKER (MM) LOCATIONS ARE APPROXIMATE AND DISPLAYED FOR REFERENCE ONLY.



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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 80 160

SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_ALN.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Matthew Paul

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN:

NORWICH AND MONTVILLE

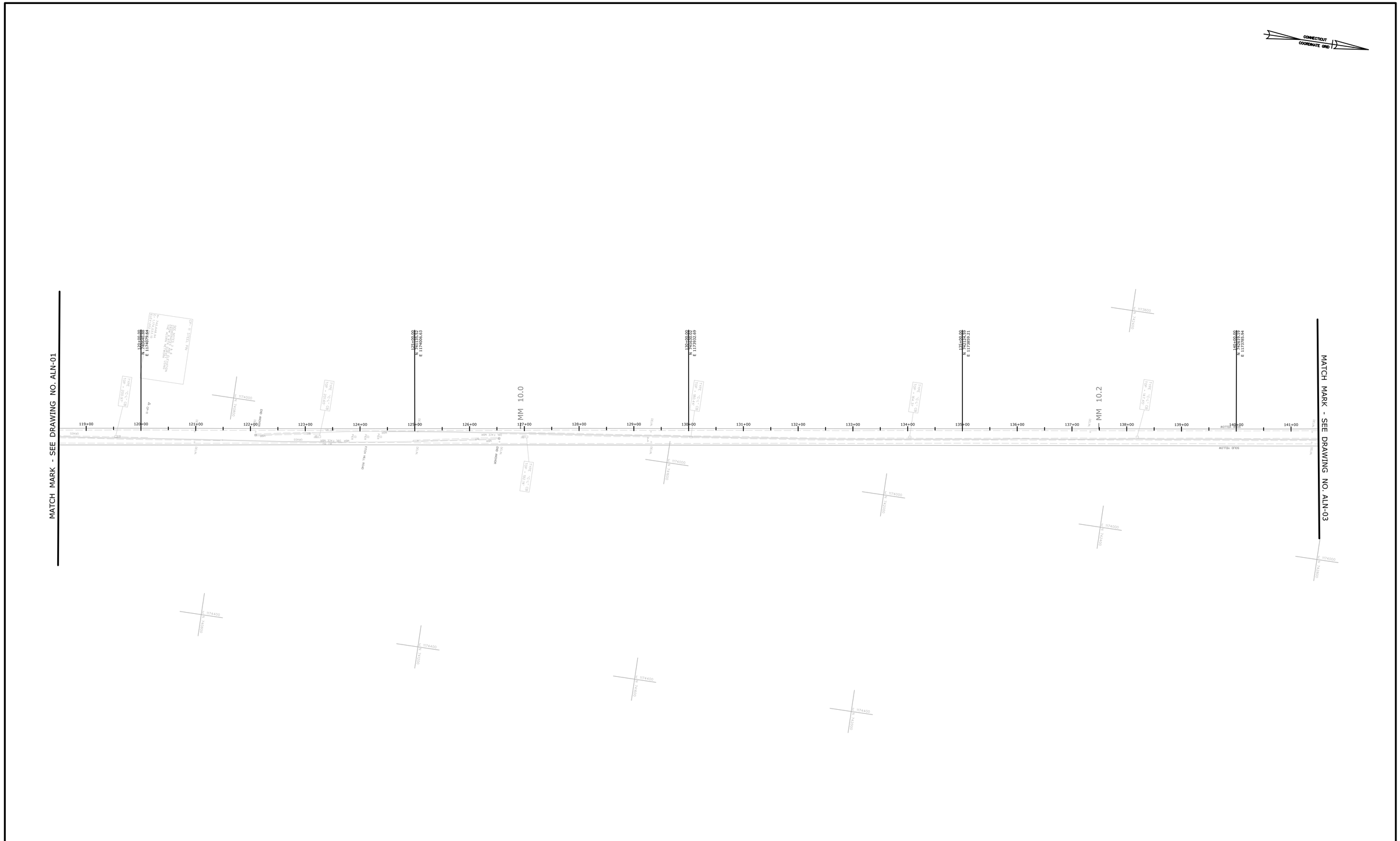
DRAWING TITLE:

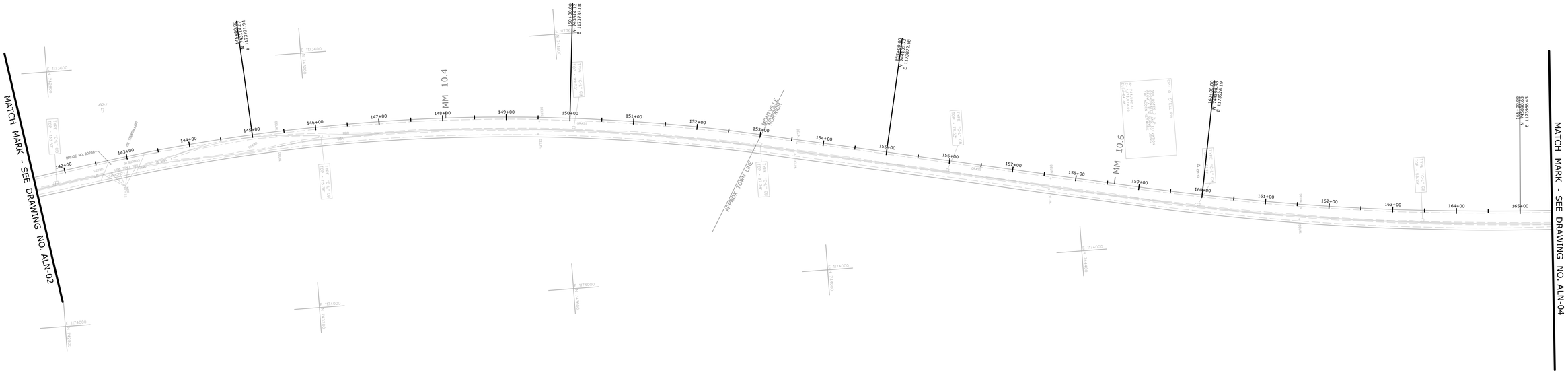
ALIGNMENT PLAN

PROJECT NO. 0103-0272

DRAWING NO. ALN-01

SHEET NO. 03.23


CONNECTICUT COORDINATE GRID
MATCH MARK - SEE DRAWING NO. ALN-01
MATCH MARK - SEE DRAWING NO. ALN-03
119+00
120+00
121+00
122+00
123+00
124+00
125+00
126+00
127+00
128+00
129+00
130+00
131+00
132+00
133+00
134+00
135+00
136+00
137+00
138+00
139+00
140+00
141+00
MM 10.0
MM 10.2
N 2740000.00
E 1174079.64
N 2741000.00
E 1174056.83
N 2743000.00
E 1173924.09
N 2743500.00
E 1173921.21
N 2744000.00
E 1173918.33
SOLID YELLOW
DASHED
FOCH HILL RDG
END MEDIAN
END MEDIAN
N 74°36'35" W
N 74°36'35" W
N 74°36'35" W



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Plotted Date: 6/11/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 80 160

SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Matthew Paul

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN:

NORWICH AND MONTVILLE

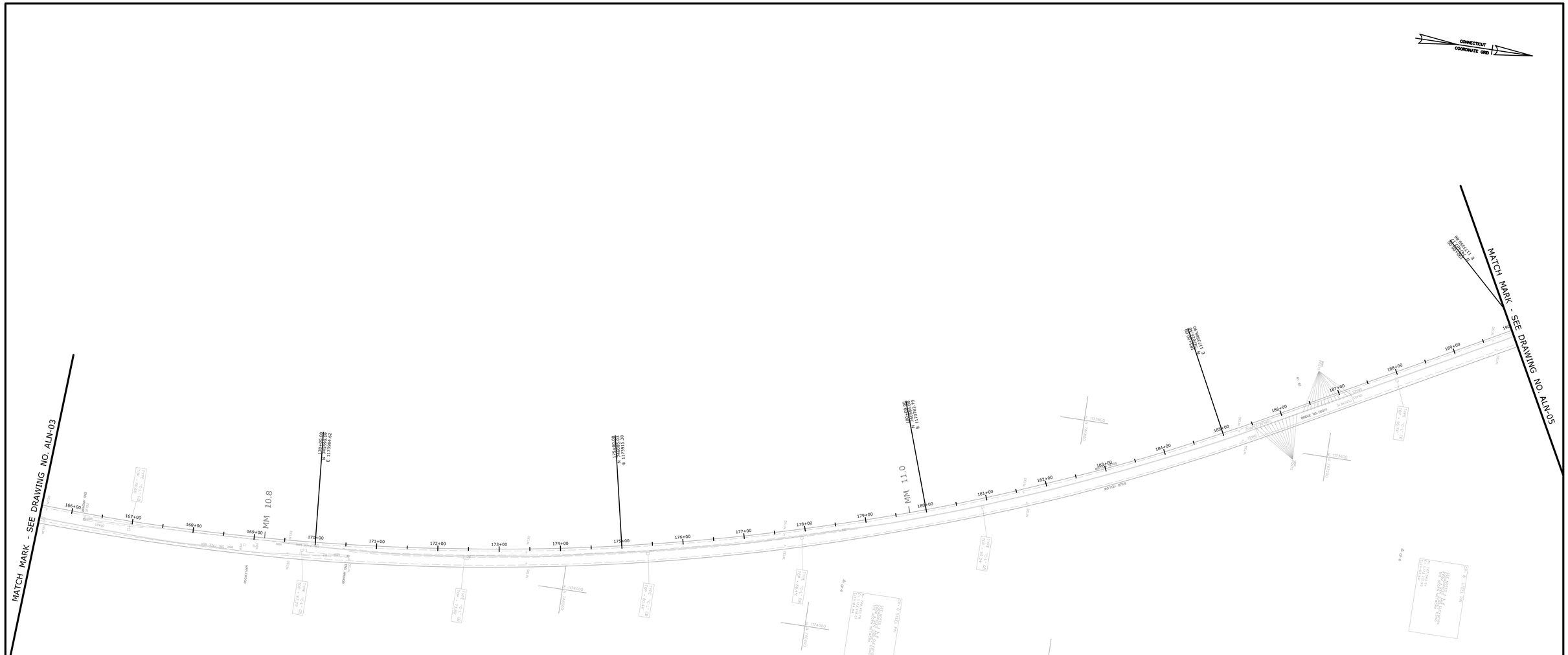
DRAWING TITLE:

ALIGNMENT PLAN

PROJECT NO. **0103-0272**

DRAWING NO. **ALN-03**

SHEET NO. **03.25**


CONNECTICUT COORDINATE GRID
MATCH MARK - SEE DRAWING NO. ALN-03
MATCH MARK - SEE DRAWING NO. ALN-05
MM 10.8
MM 11.0
166+00
167+00
168+00
169+00
170+00
171+00
172+00
173+00
174+00
175+00
176+00
177+00
178+00
179+00
180+00
181+00
182+00
183+00
184+00
185+00
186+00
187+00
188+00
189+00
BRIDGE NO. 00271
BOTTOM DECK
DOCKTAWN
BRIDGE END
N 1174000
N 1173600
N 1173200
N 1172800
N 1172400
N 1172000
N 1171600
N 1171200
N 1170800
N 1170400
N 1170000
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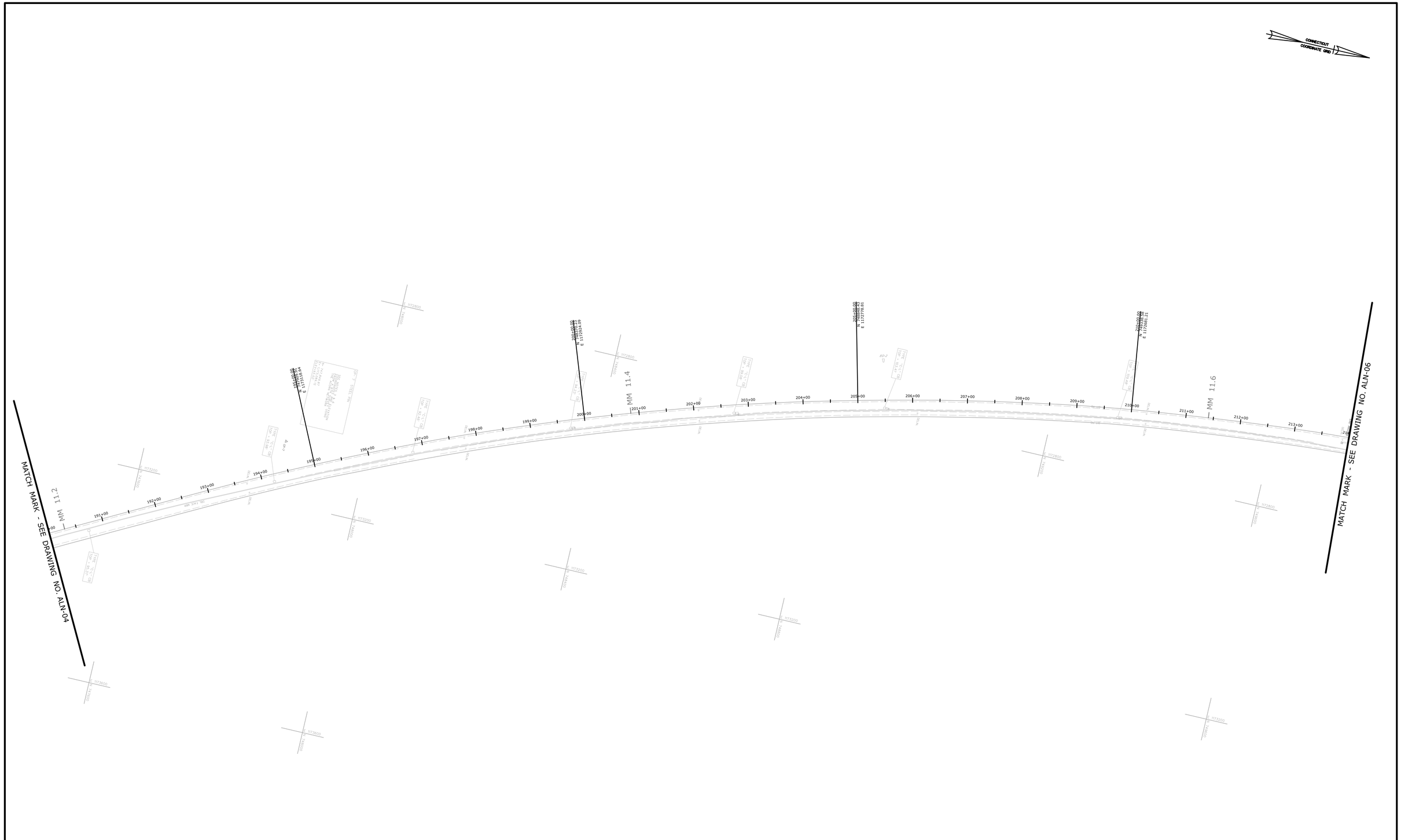
CONNECTICUT COORDINATE GRID
MATCH MARK - SEE DRAWING NO. ALN-04
MATCH MARK - SEE DRAWING NO. ALN-06
MM 11.2
MM 11.4
MM 11.6
190+00
191+00
192+00
193+00
194+00
195+00
196+00
197+00
198+00
199+00
200+00
201+00
202+00
203+00
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E 1172100.00
N 700100.00
E 1172279.81
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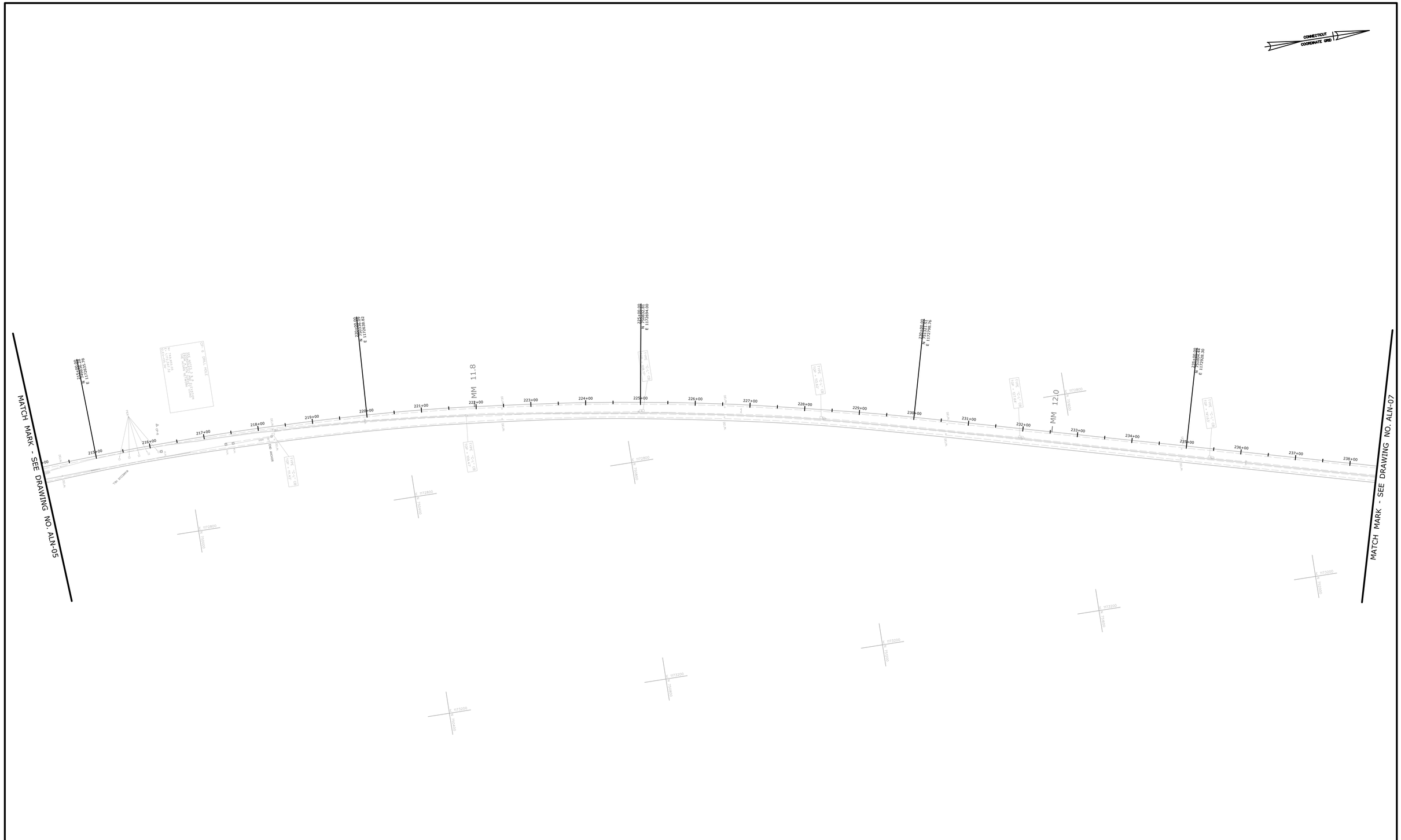

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 80 160

SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_ALN.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
Matthew Nash

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

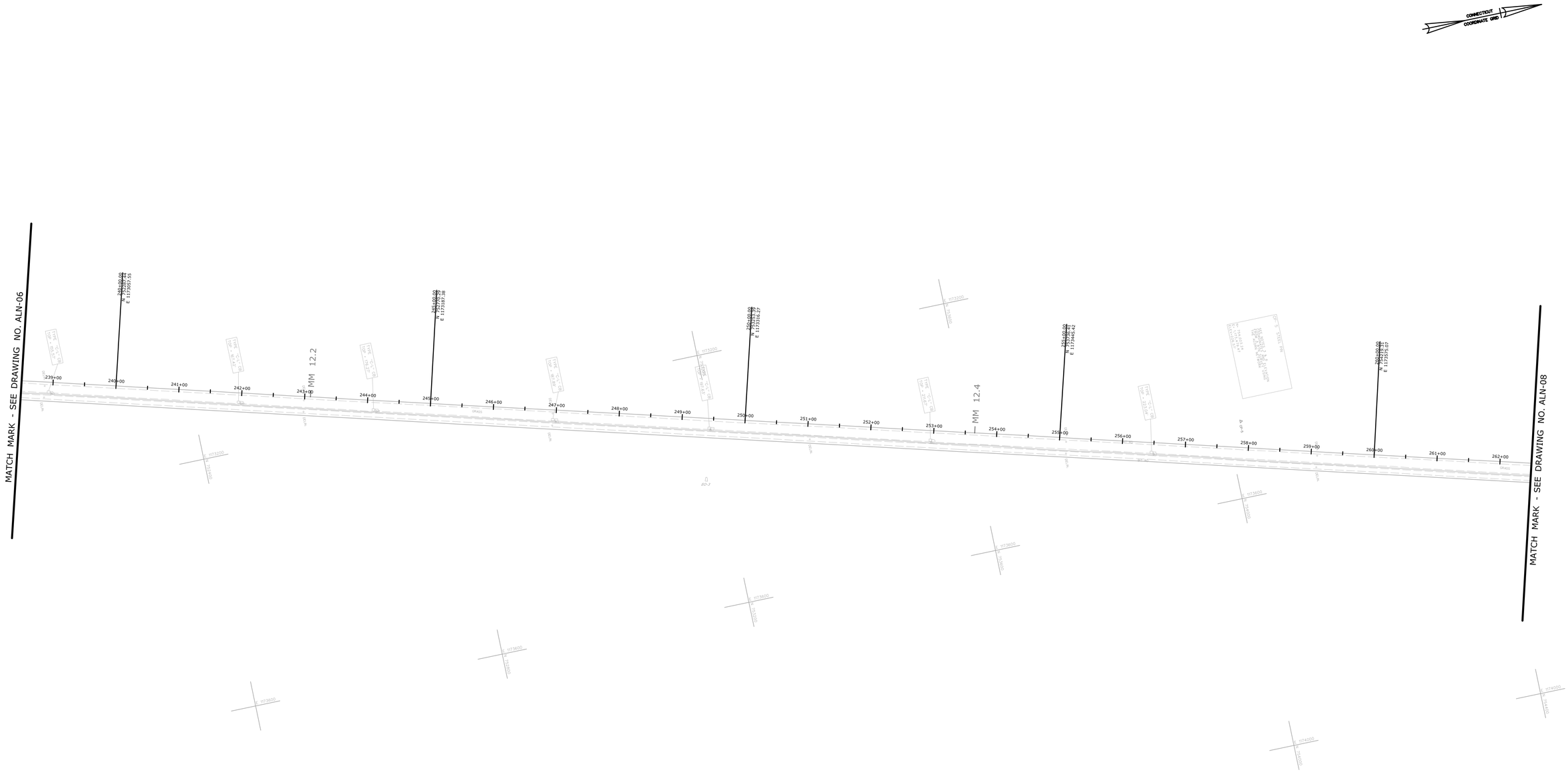
TOWN:
NORWICH AND MONTVILLE

DRAWING TITLE:
ALIGNMENT PLAN

PROJECT NO. 0103-0272

DRAWING NO. ALN-06

SHEET NO. 03.28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MATCH MARK - SEE DRAWING NO. ALN-06
MATCH MARK - SEE DRAWING NO. ALN-08
MM 12.2
MM 12.4
239+00
240+00
241+00
242+00
243+00
244+00
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246+00
247+00
248+00
249+00
250+00
251+00
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N 225100.00
E 1173187.38
N 225100.00
E 1173316.27
N 225100.00
E 1173446.42
N 225100.00
E 1173575.07
E 1173200
E 1173400
E 1173600
E 1173800
E 1174000
N 225400
N 225600
N 225800
N 226000
N 226200
N 226400
N 226600
N 226800
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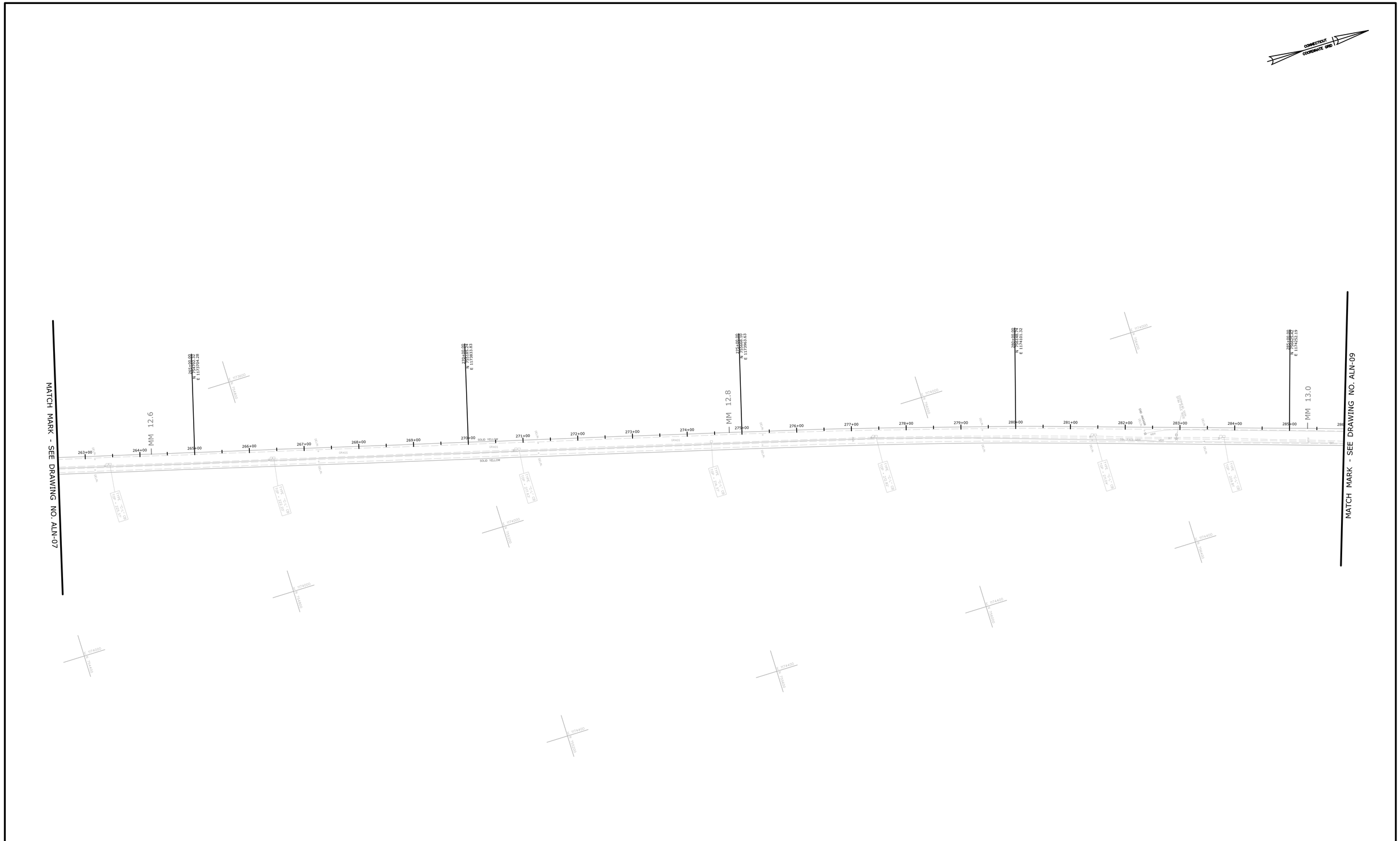
CONNECTICUT COORDINATE GRID
MATCH MARK - SEE DRAWING NO. ALN-07
MATCH MARK - SEE DRAWING NO. ALN-09
MM 12.6
MM 12.8
MM 13.0
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264+00
265+00
266+00
267+00
268+00
269+00
270+00
271+00
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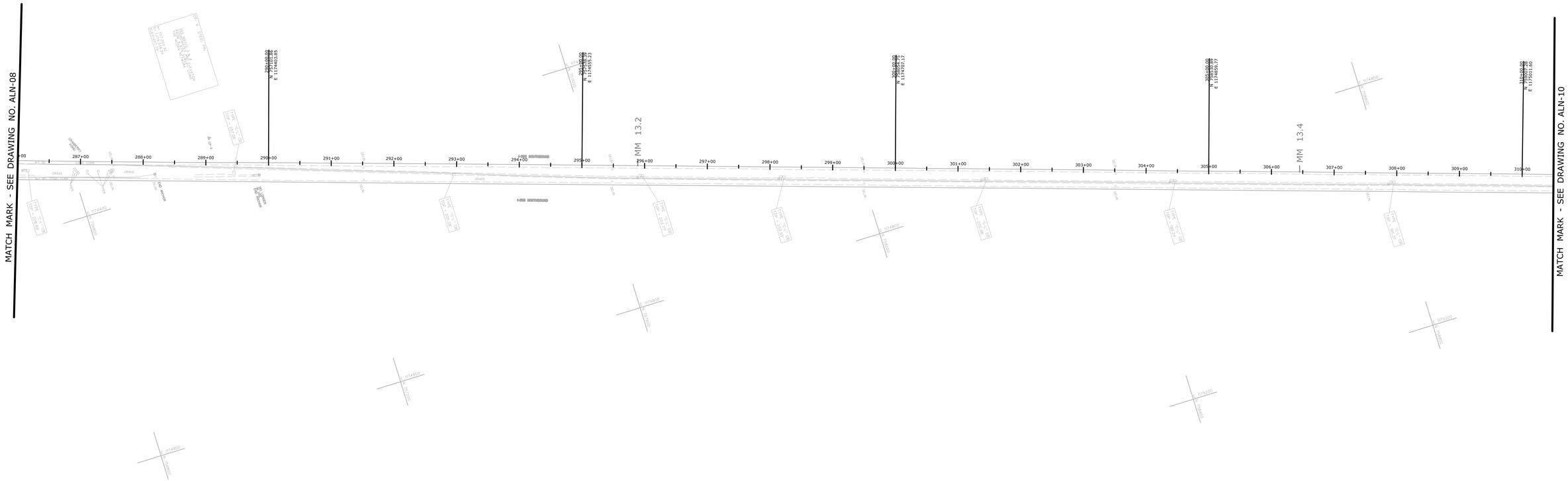
273+00
274+00
275+00
276+00
277+00
278+00
279+00
280+00
281+00
282+00
283+00
284+00
285+00
SOLID YELLOW
GRASS
DIRT
CONC. FACE DIKE
DIKE ANCHOR
TYPE 'C' CURB
TYPE 'C' CURB
TYPE 'C' CURB


CONNECTICUT COORDINATE GRID
MATCH MARK - SEE DRAWING NO. ALN-08
MATCH MARK - SEE DRAWING NO. ALN-10
287+00
288+00
289+00
290+00
291+00
292+00
293+00
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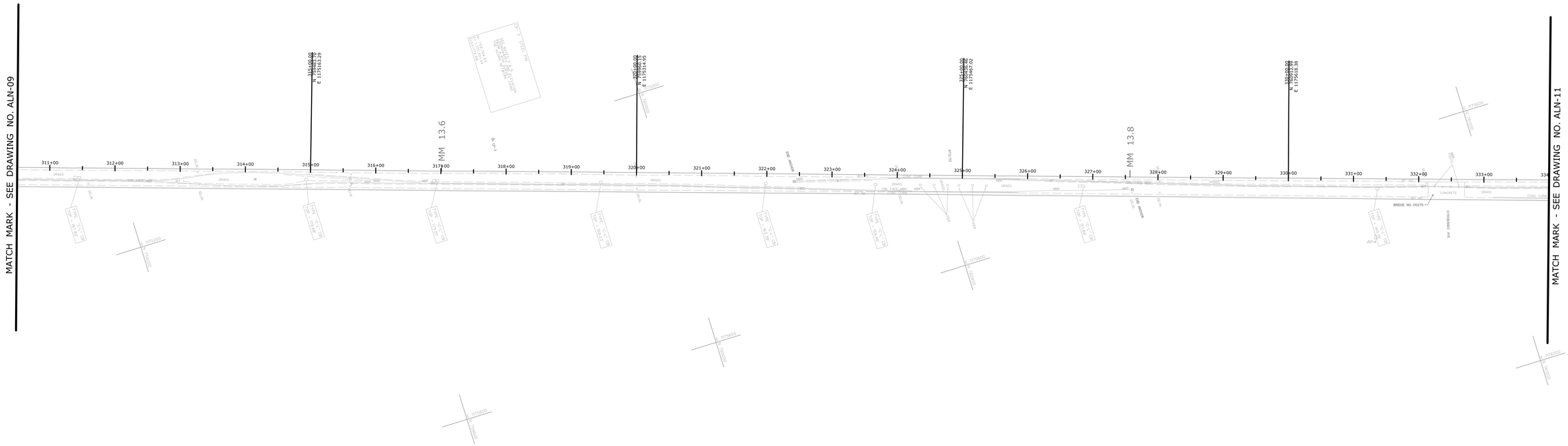
295+00
296+00
297+00
298+00
299+00
300+00
301+00
302+00
303+00
304+00
305+00
306+00
307+00
308+00
309+00
310+00
MM 13.2
MM 13.4
I-395 NORTHBOUND
I-395 SOUTHBOUND
GRASS
DECIDUOUS TREE
EXISTING RIGHT OF WAY
EXISTING RIGHT OF WAY
EXISTING RIGHT OF WAY


CONNECTICUT COORDINATE GRID
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MATCH MARK - SEE DRAWING NO. ALN-11
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312+00
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332+00
333+00
MM 13.6
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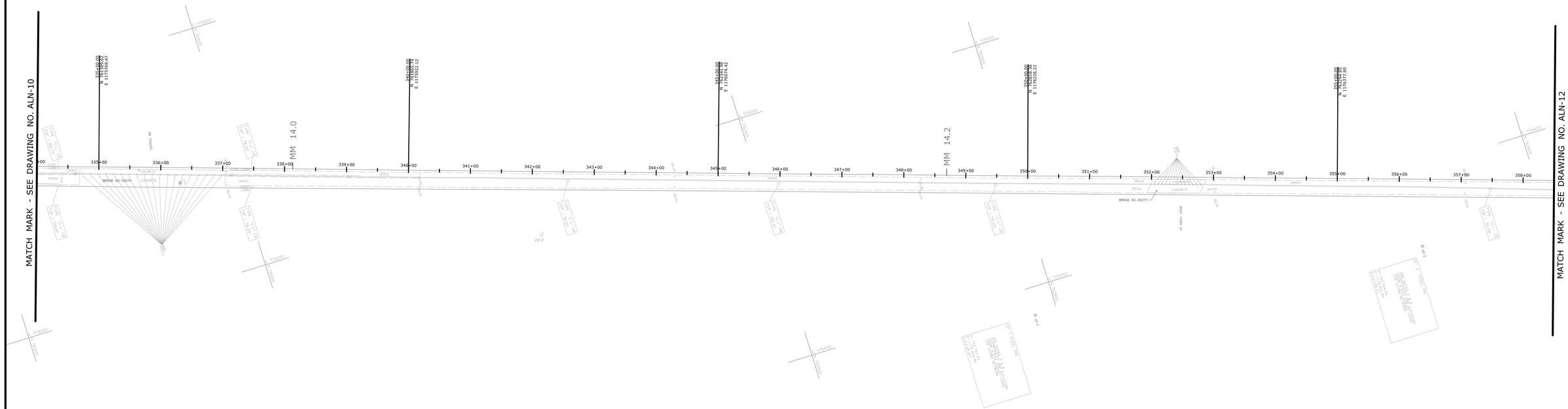
BRIDGE NO. 00270
GRASS
CONCRETE
CONC CURB
EXISTING ROAD
EXISTING ROAD
EXISTING ROAD



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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET
0 80 160
SCALE 1"=80'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\Plan\HW_MSH_0103_0272_ALN.dgn

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APPROVED BY:
Matthew Nagy

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

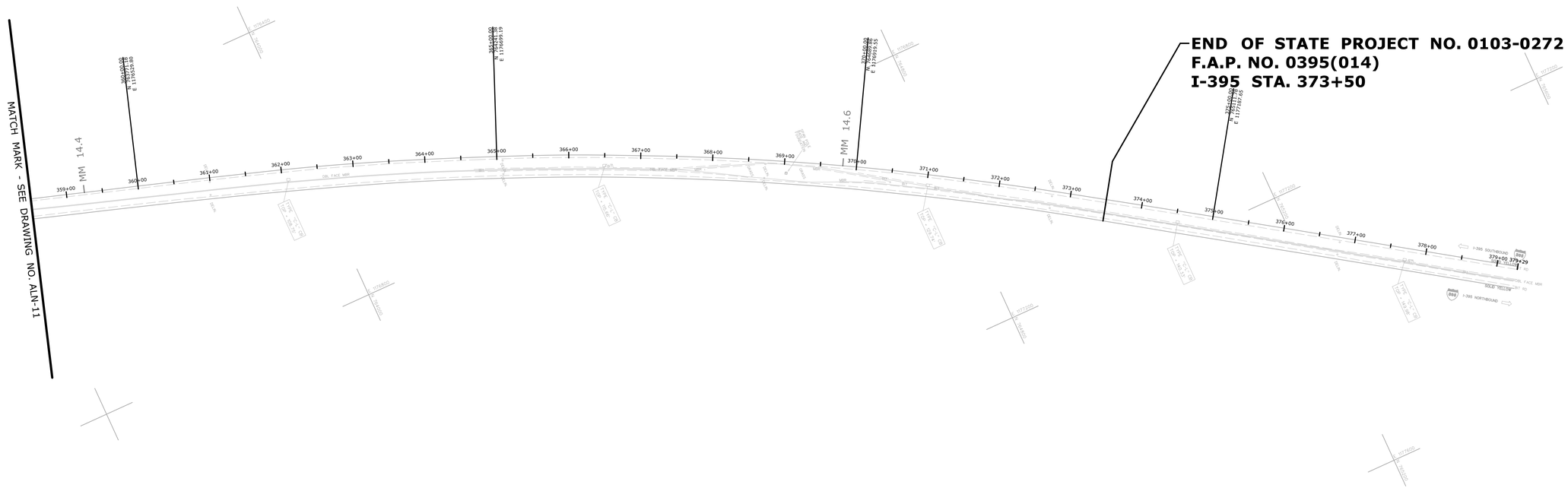
TOWN:
NORWICH AND MONTVILLE

DRAWING TITLE:
ALIGNMENT PLAN

PROJECT NO. **0103-0272**

DRAWING NO. **ALN-11**

SHEET NO. **03.33**



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APPROVED BY:

Matthew Vaiuf

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

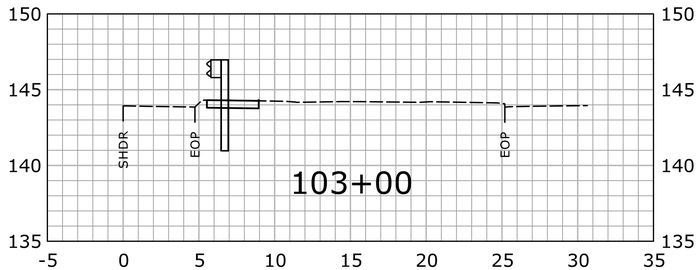
TOWN: NORWICH AND MONTVILLE

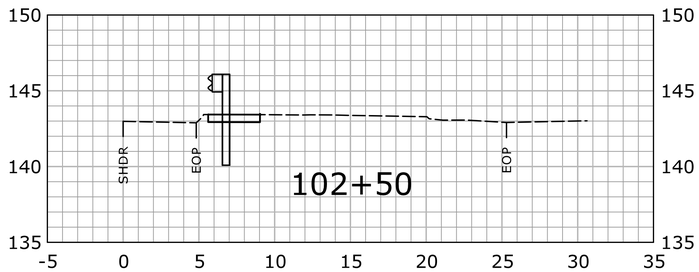
DRAWING TITLE: ALIGNMENT PLAN

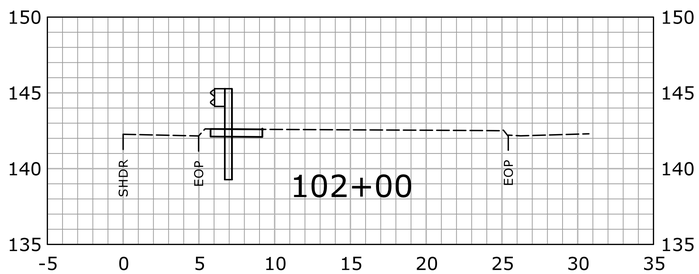
PROJECT NO. 0103-0272

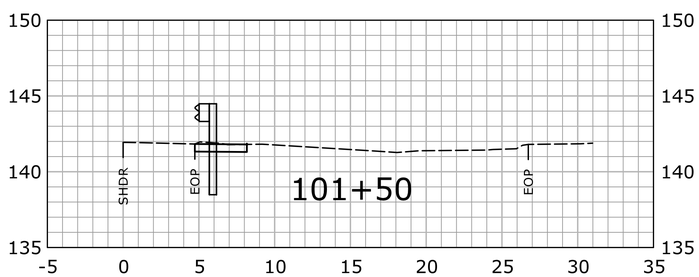
DRAWING NO. ALN-12

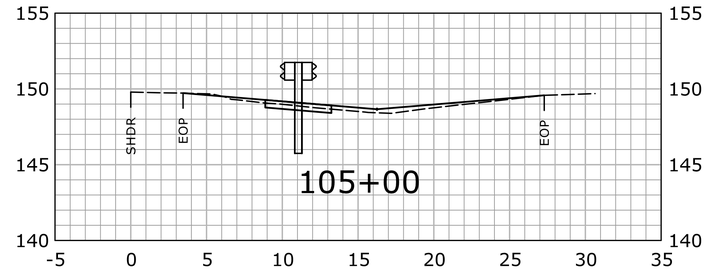
SHEET NO. 03.34

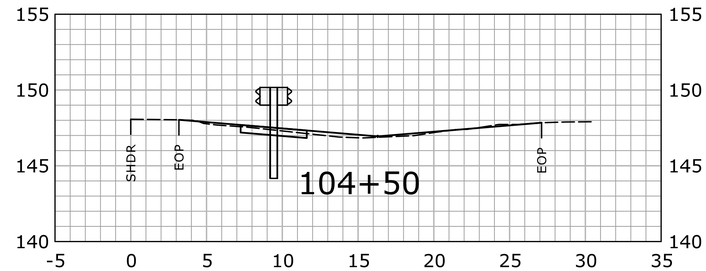


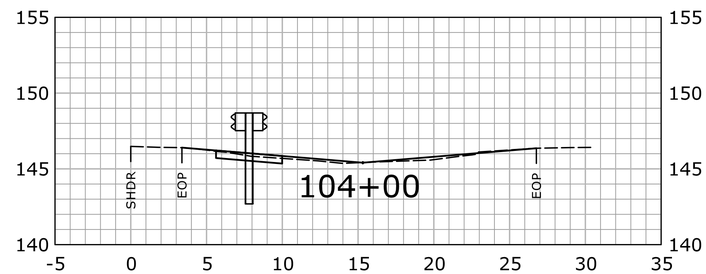


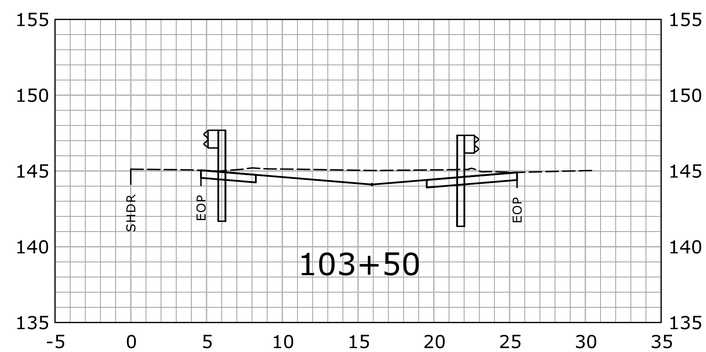


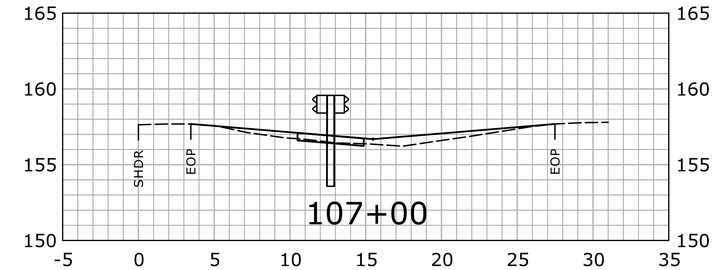


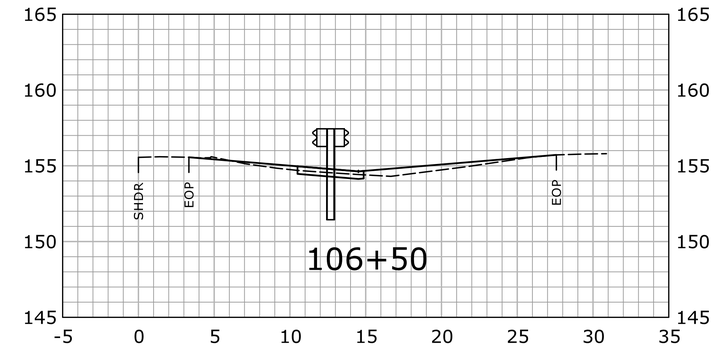


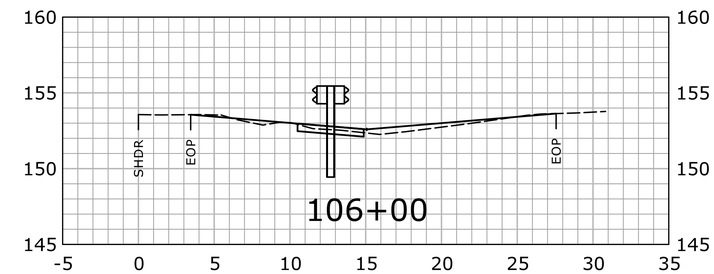


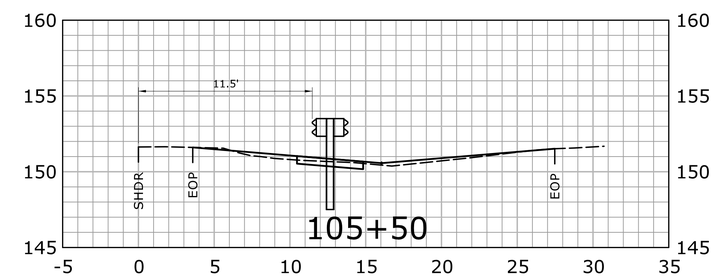












STA.101+50 TO STA.107+00

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DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Matthew Paul

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

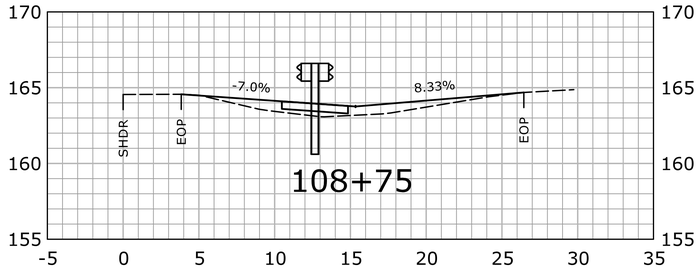
TOWN: NORWICH AND MONTVILLE

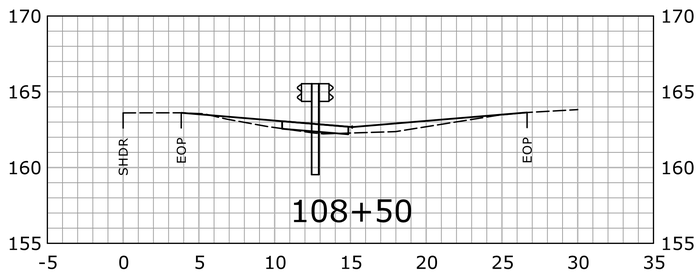
DRAWING TITLE: CROSS SECTIONS

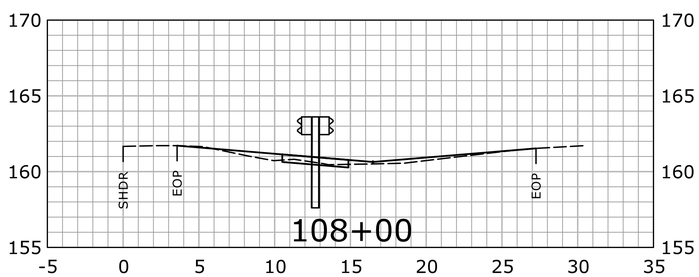
PROJECT NO. 0103-0272

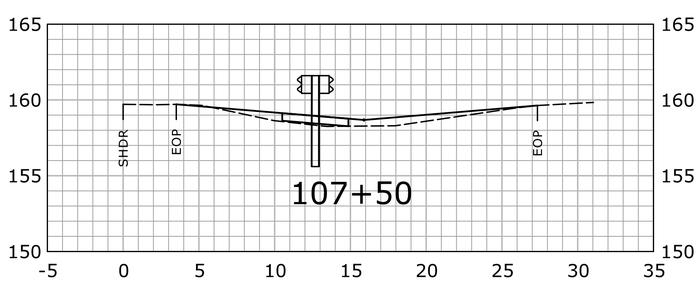
DRAWING NO. XSC-01

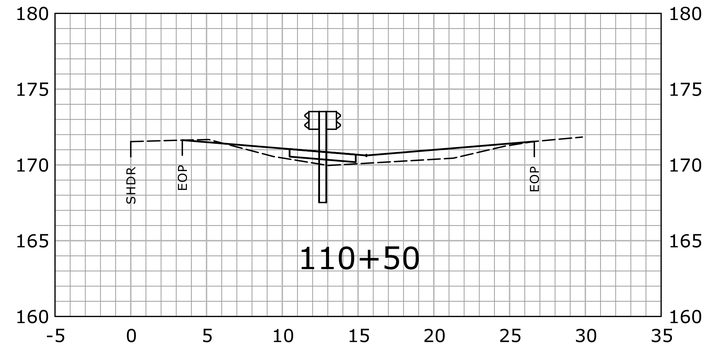
SHEET NO. 03.35

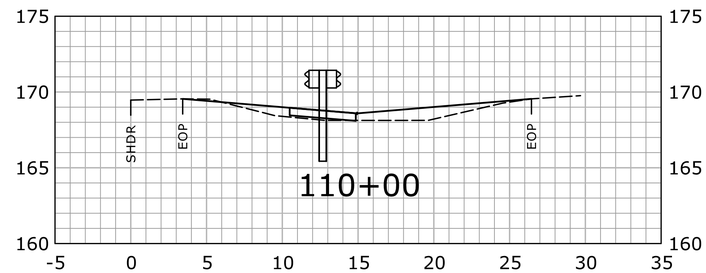


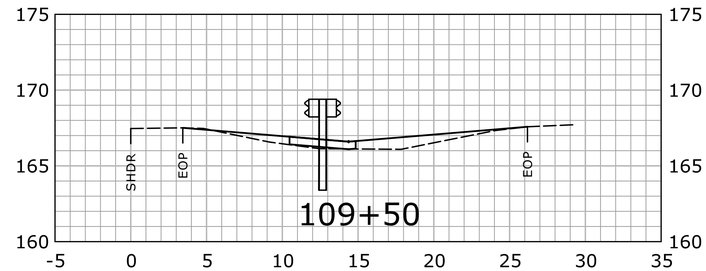


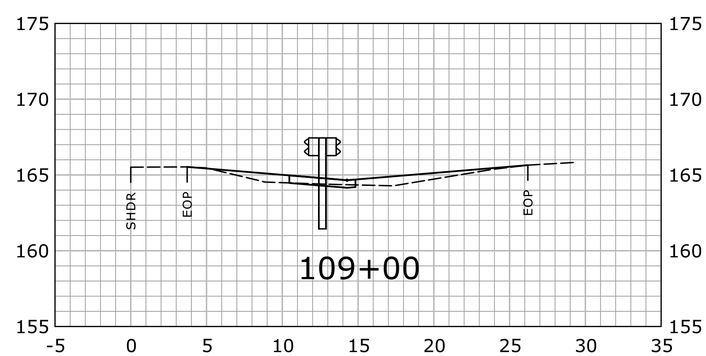


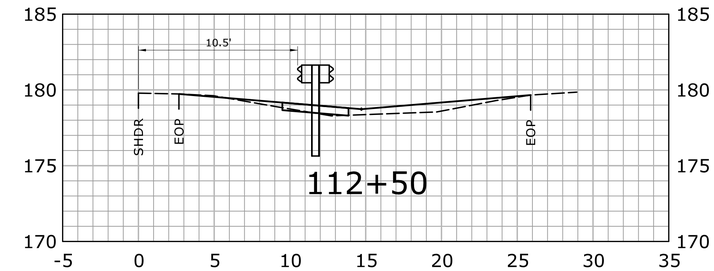


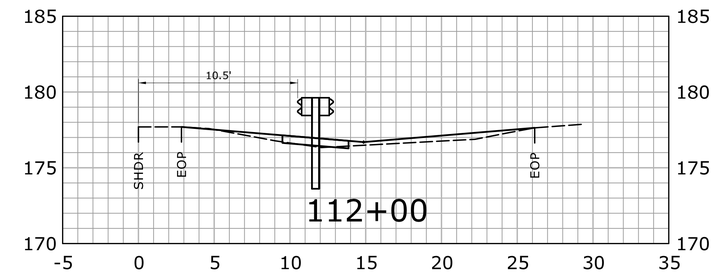


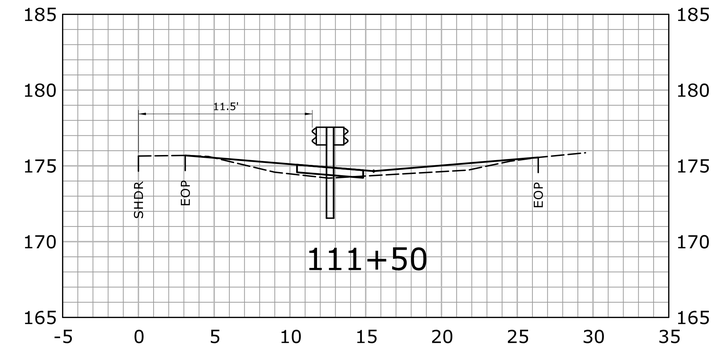


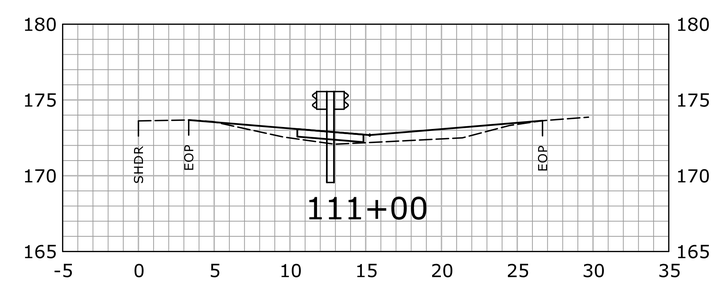












STA.107+50 TO STA.112+50

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: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
Matthew Paul

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

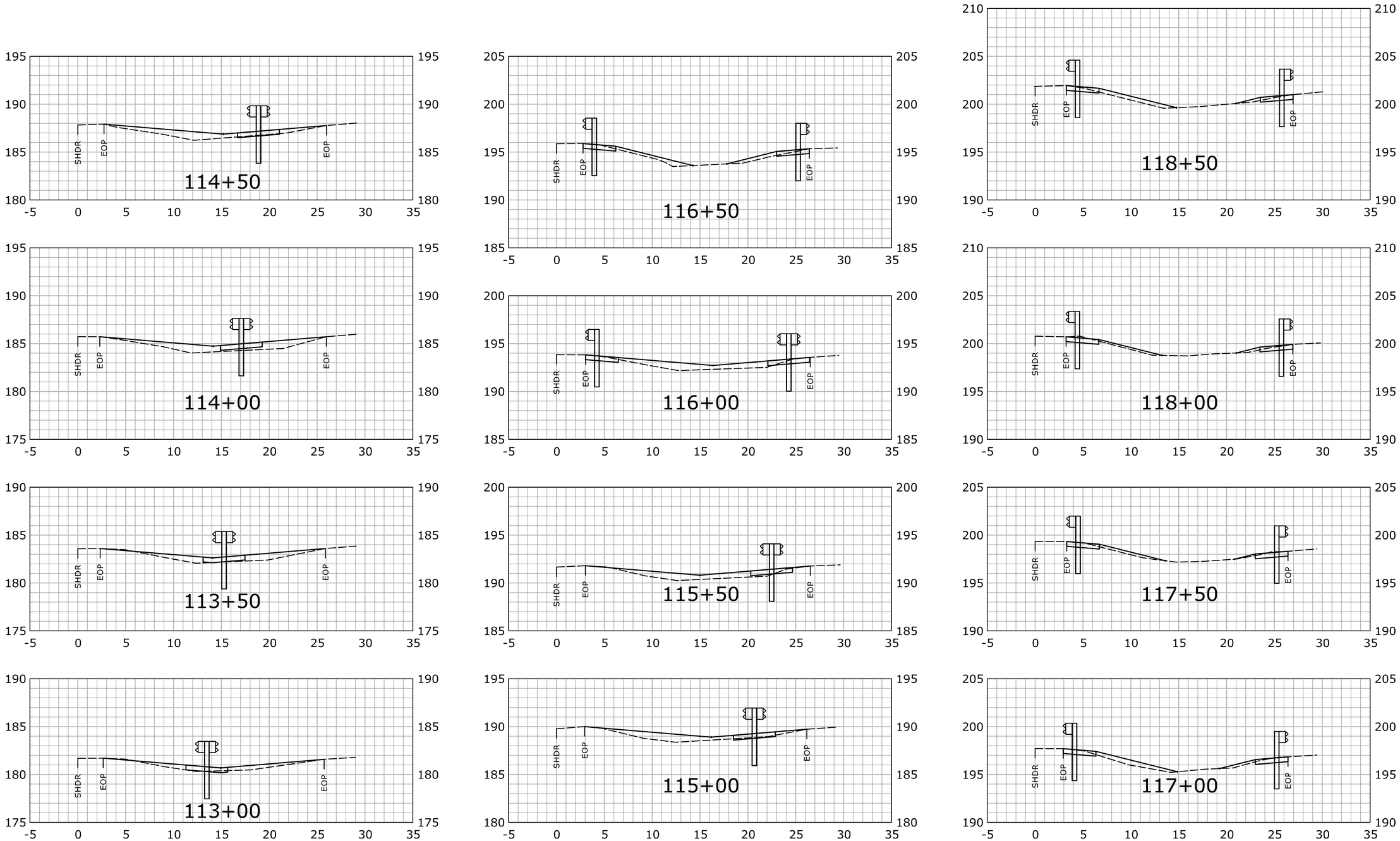
TOWN:
NORWICH AND MONTVILLE

DRAWING TITLE:
CROSS SECTIONS

PROJECT NO. 0103-0272

DRAWING NO. XSC-02

SHEET NO. 03.36



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Matthew Vail

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

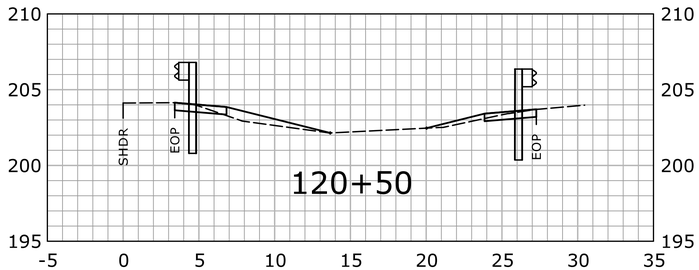
TOWN: NORWICH AND MONTVILLE

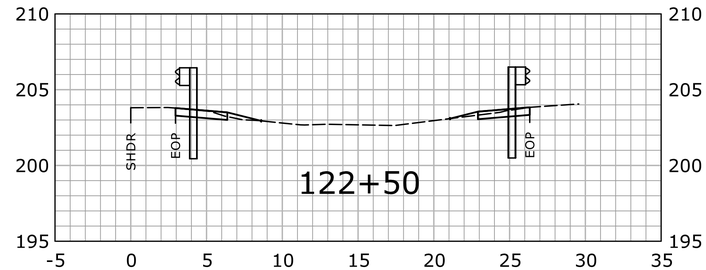
DRAWING TITLE: CROSS SECTIONS

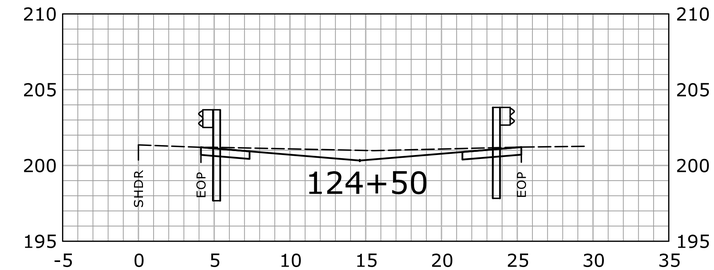
PROJECT NO. 0103-0272

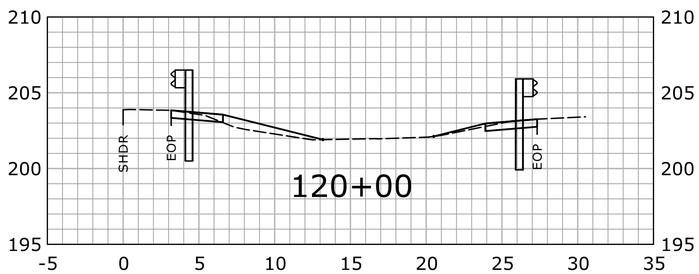
DRAWING NO. XSC-03

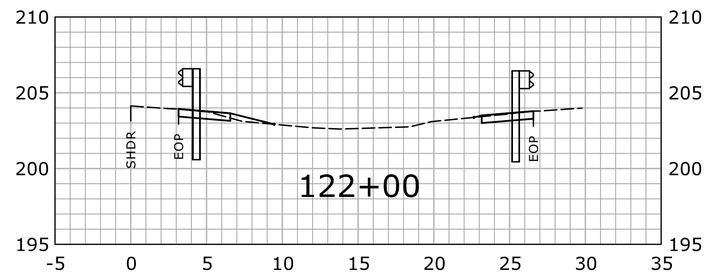
SHEET NO. 03.37

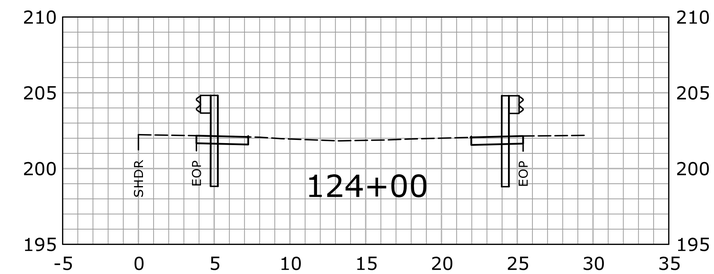


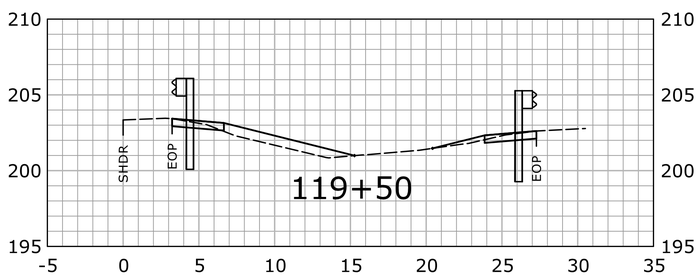


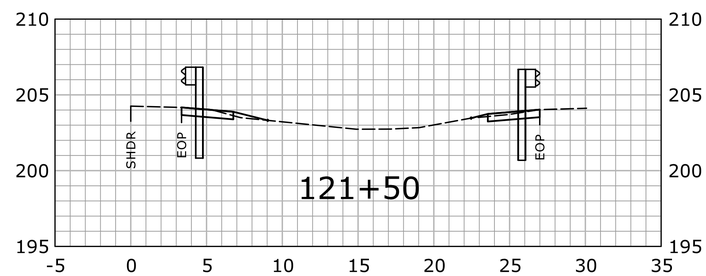


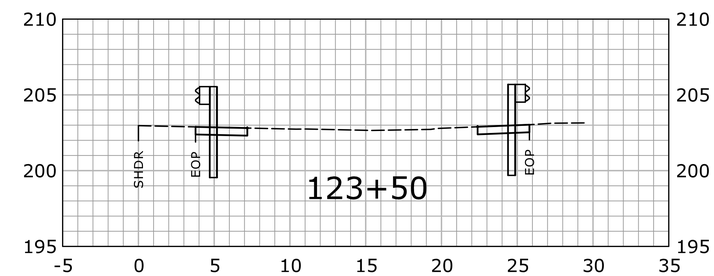


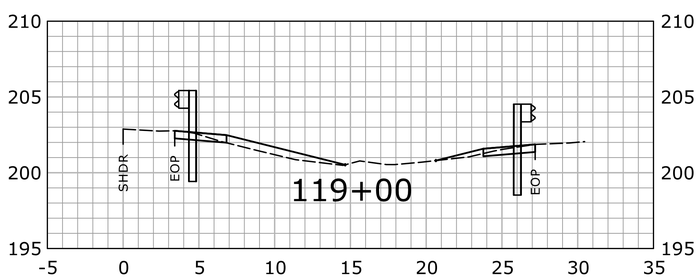


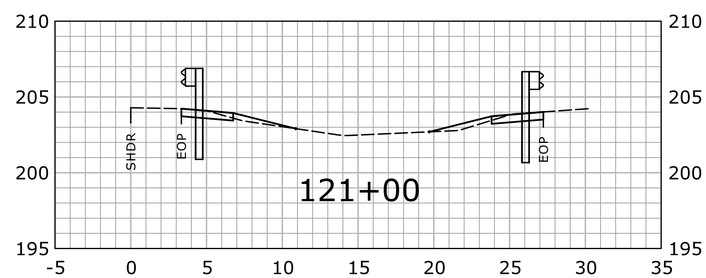


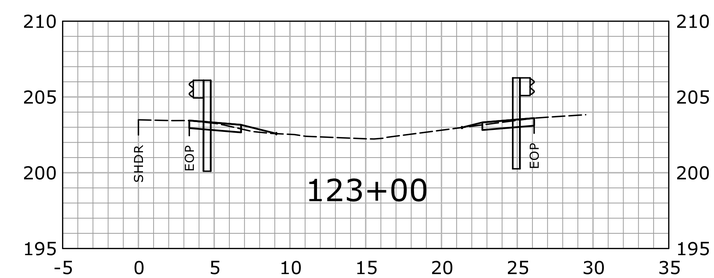












STA.119+00 TO STA.124+50

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Matthew Vail

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

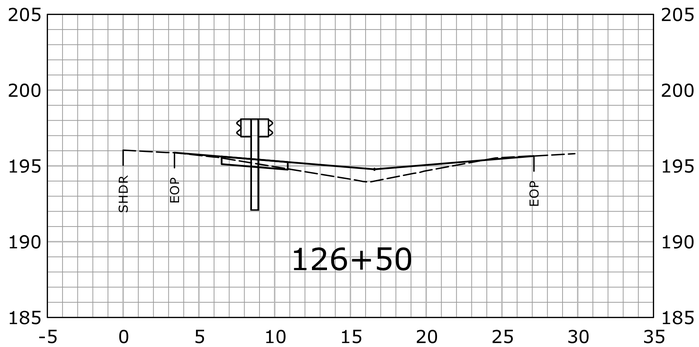
TOWN: NORWICH AND MONTVILLE

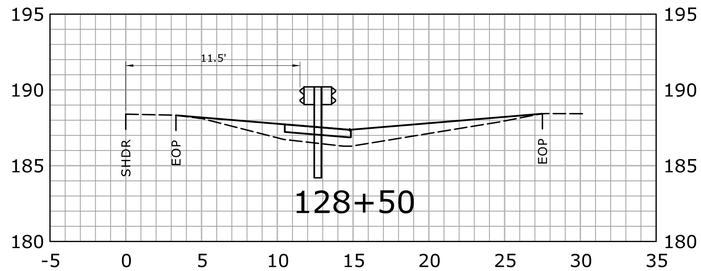
DRAWING TITLE: CROSS SECTIONS

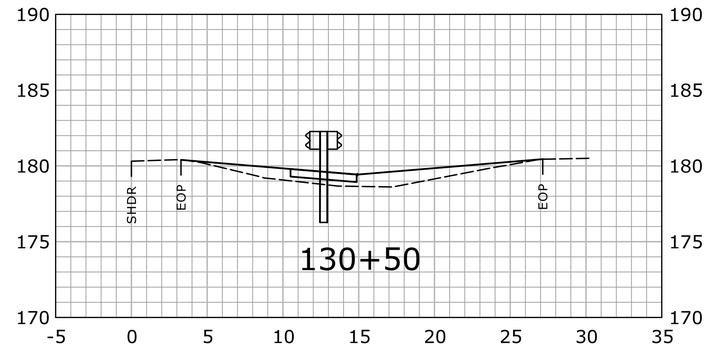
PROJECT NO. 0103-0272

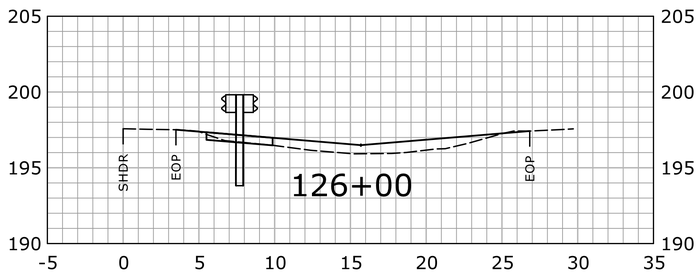
DRAWING NO. XSC-04

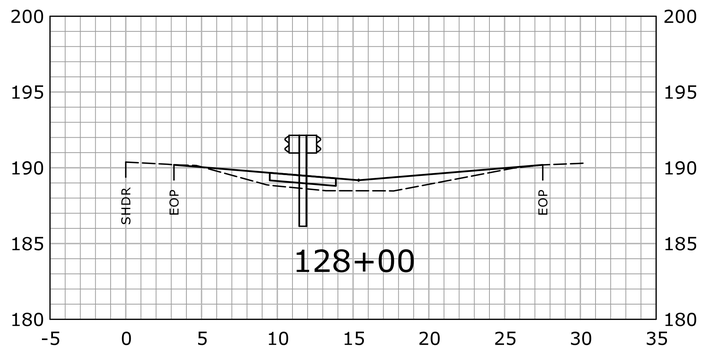
SHEET NO. 03.38

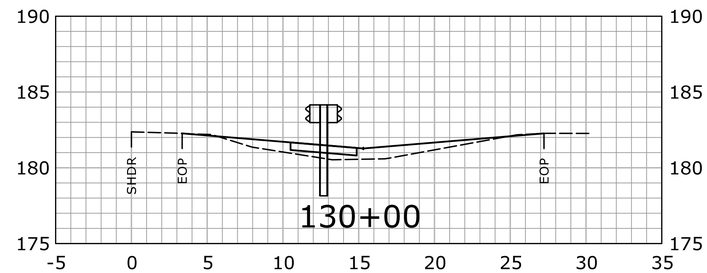


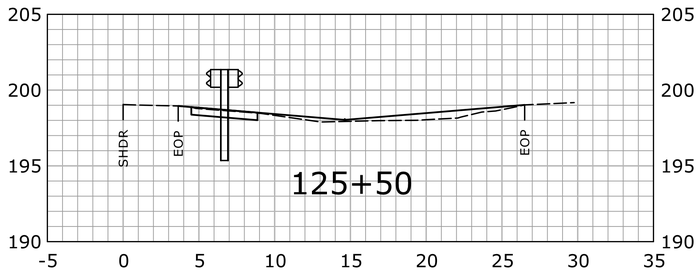


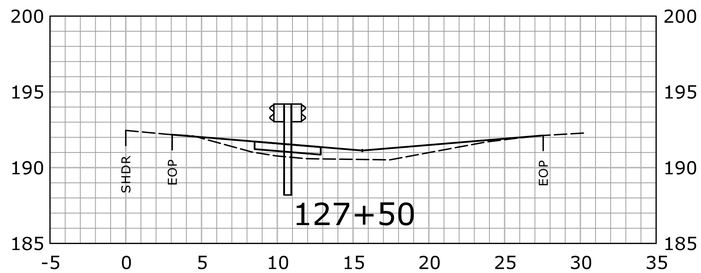


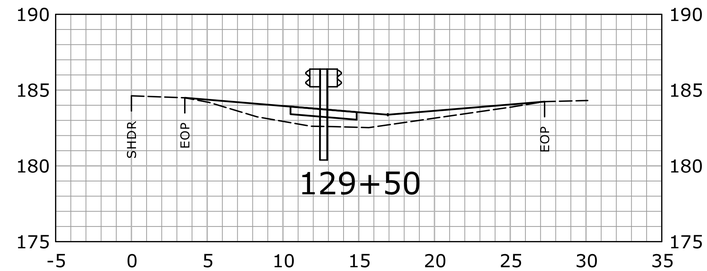


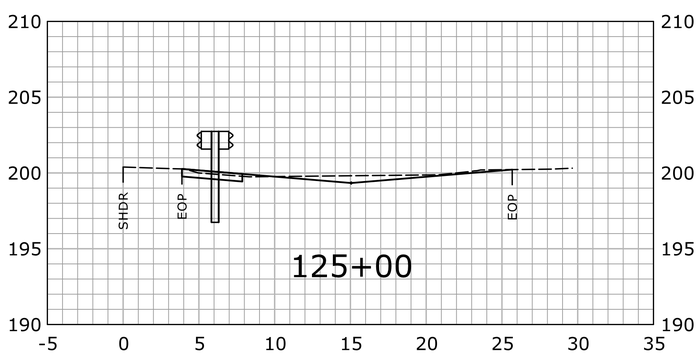


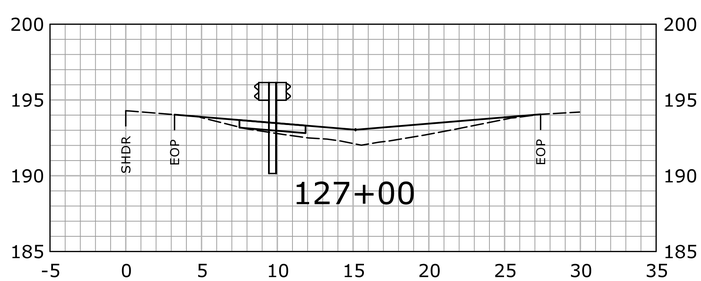


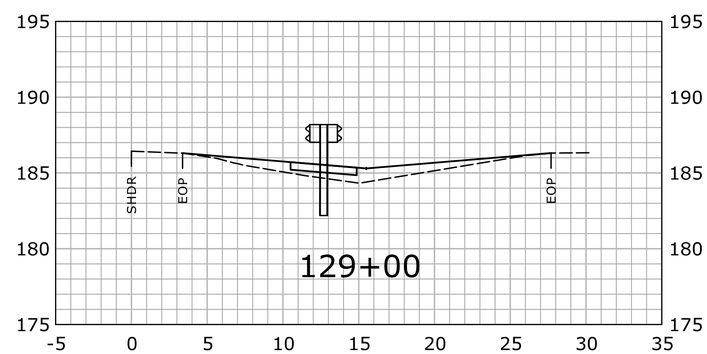












STA.125+00 TO STA.130+50

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
Matthew Paul

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

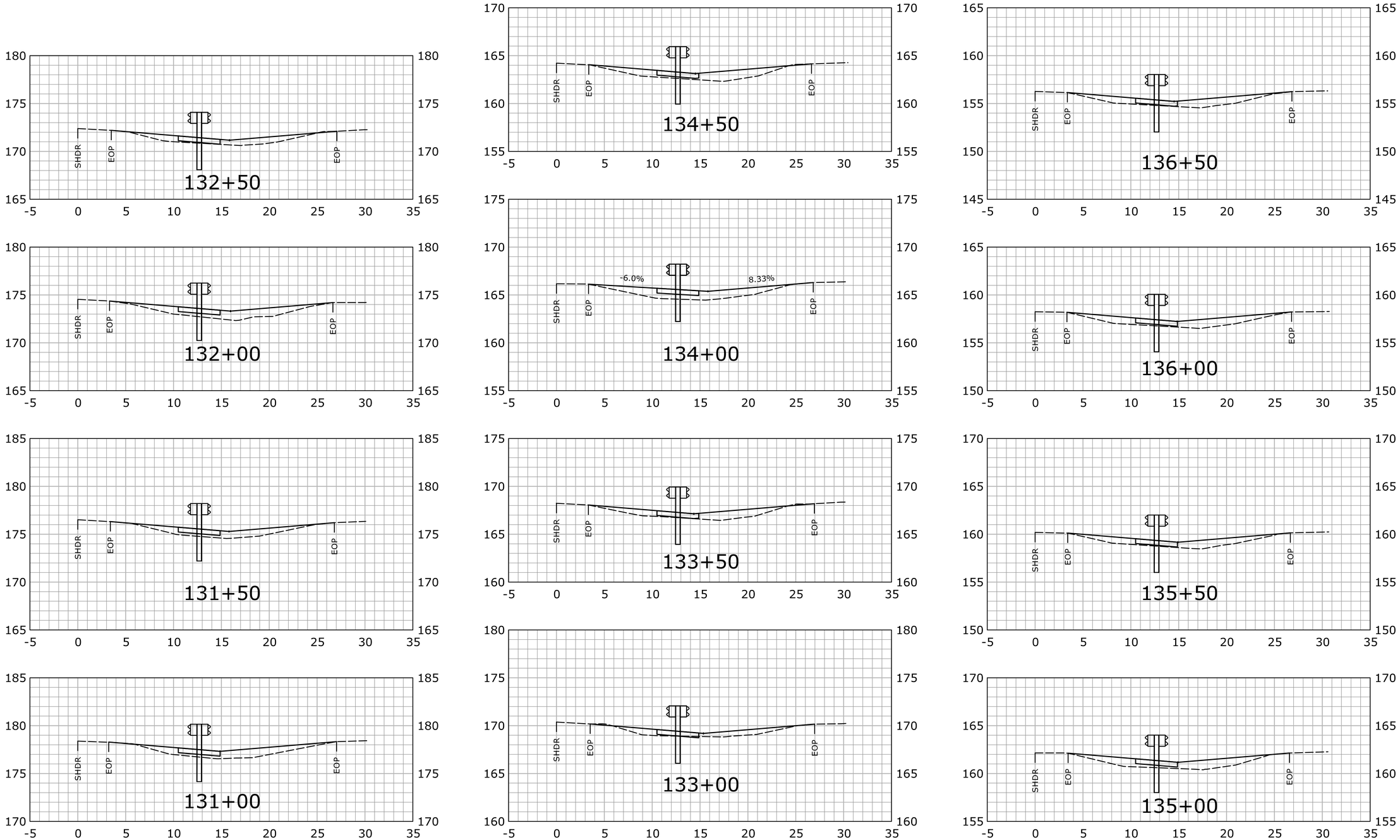
TOWN:
NORWICH AND MONTVILLE

DRAWING TITLE:
CROSS SECTIONS

PROJECT NO. 0103-0272

DRAWING NO. XSC-05

SHEET NO. 03.39



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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
Matthew Vaiuf

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

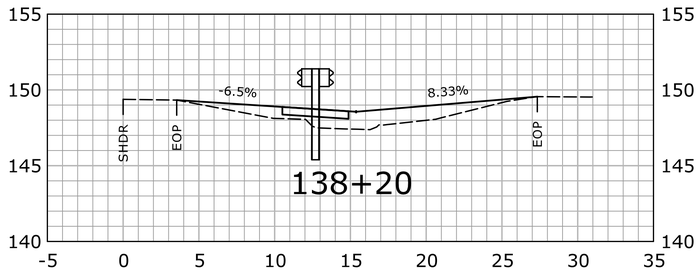
TOWN:
NORWICH AND MONTVILLE

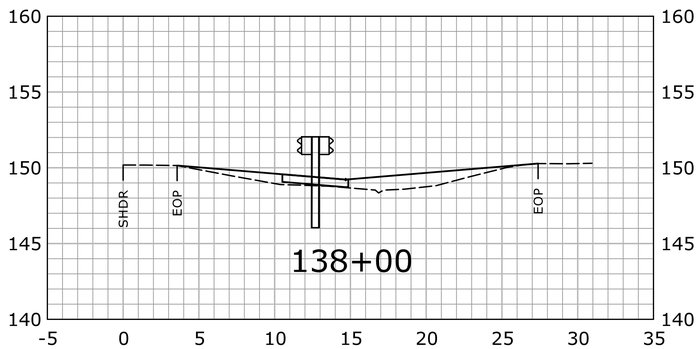
DRAWING TITLE:
CROSS SECTIONS

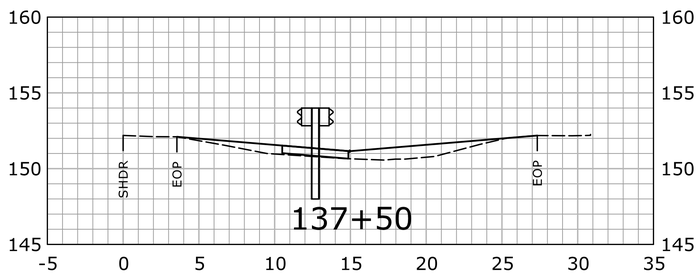
PROJECT NO. 0103-0272

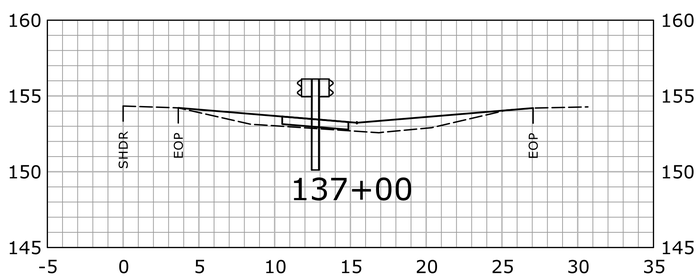
DRAWING NO. XSC-06

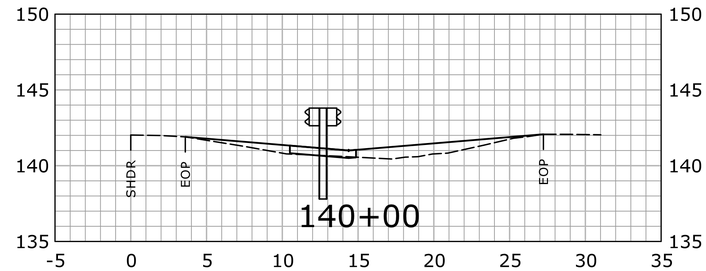
SHEET NO. 03.40

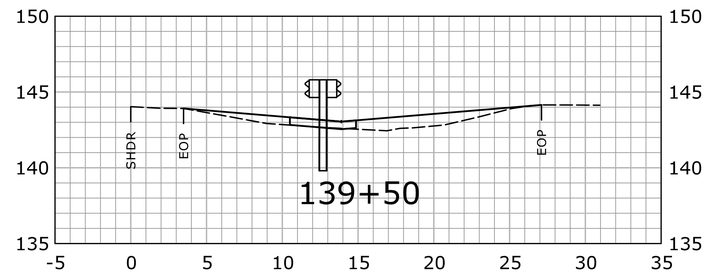


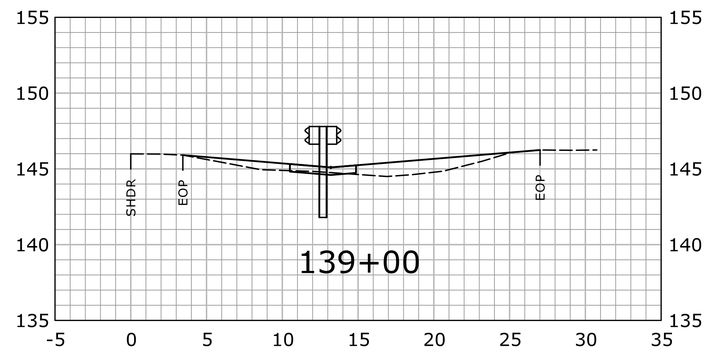


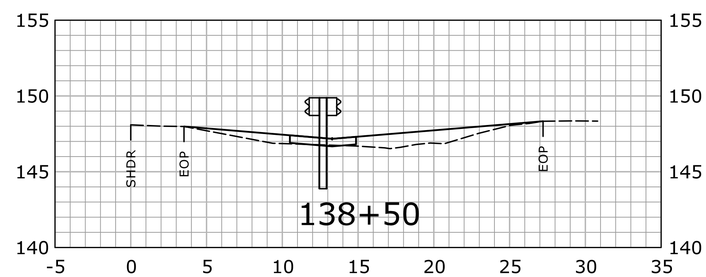


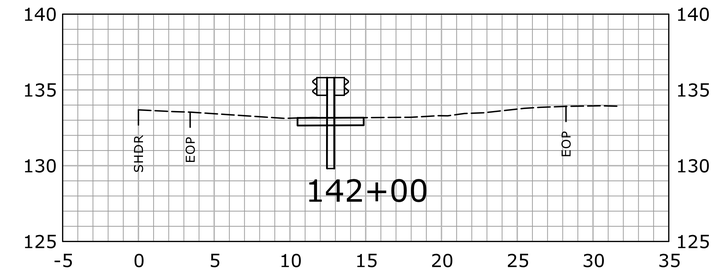


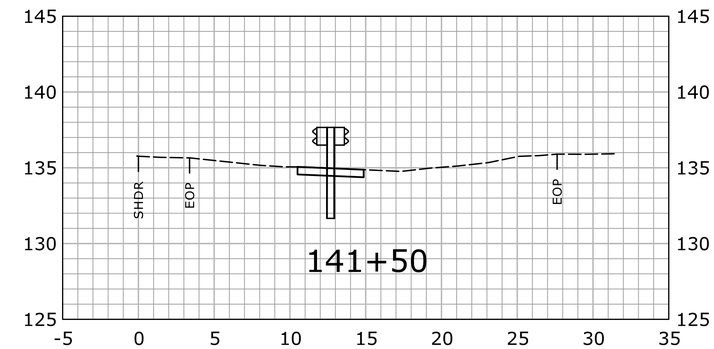


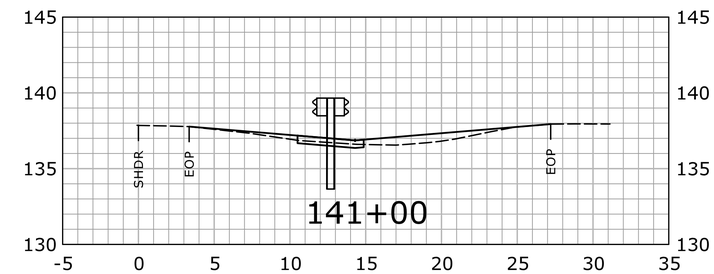


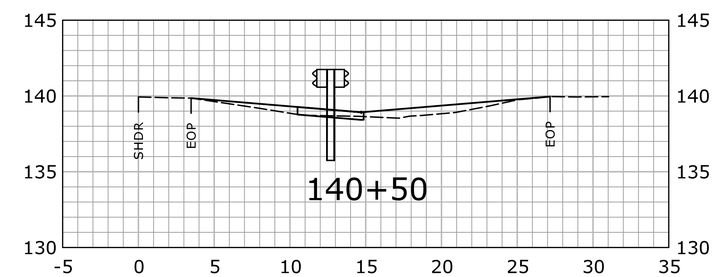












STA.137+00 TO STA.142+00

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: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Matthew Paul

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

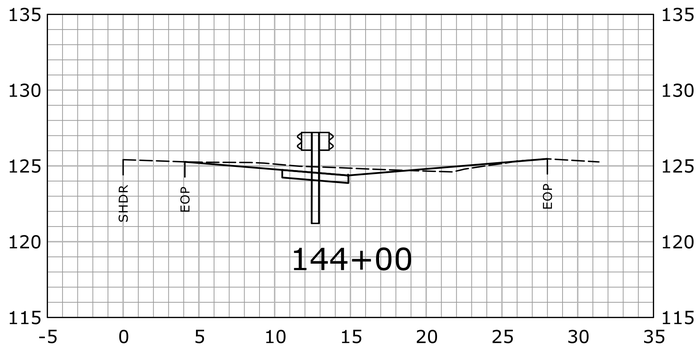
TOWN: NORWICH AND MONTVILLE

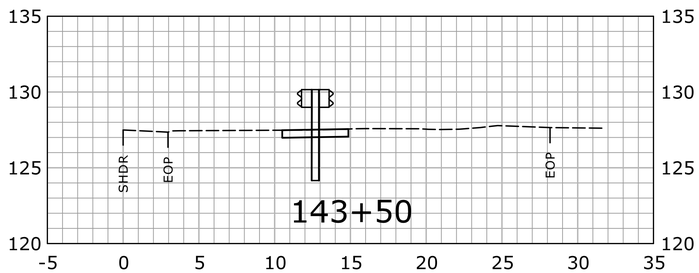
DRAWING TITLE: CROSS SECTIONS

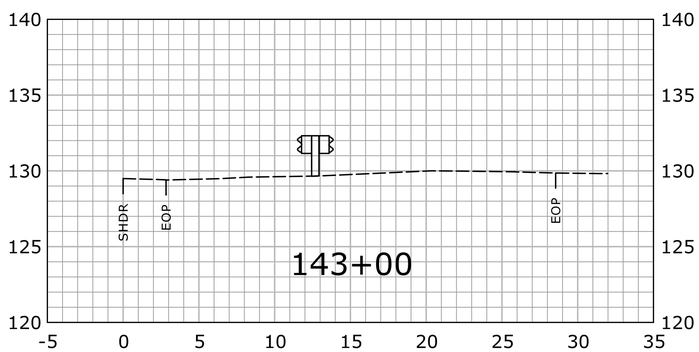
PROJECT NO. 0103-0272

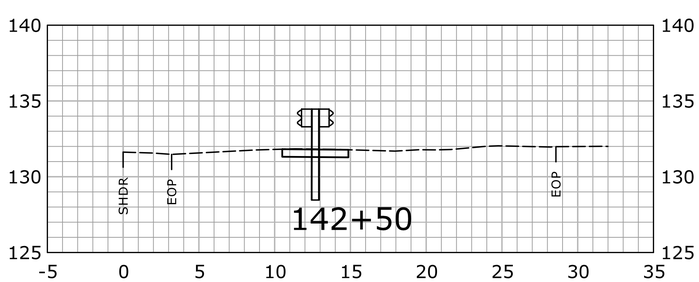
DRAWING NO. XSC-07

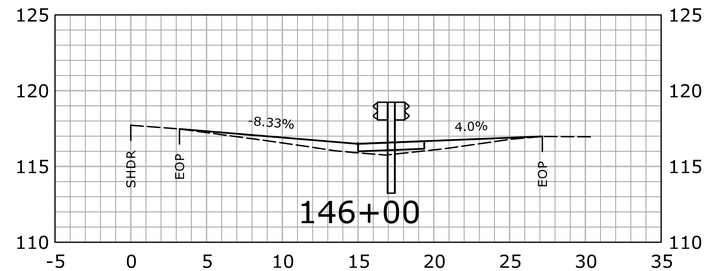
SHEET NO. 03.41

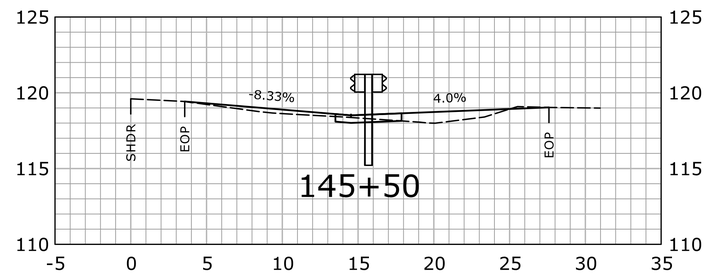


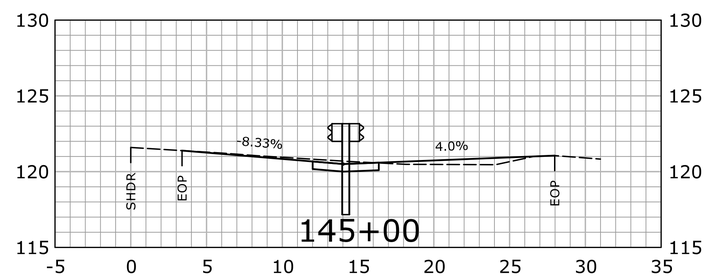


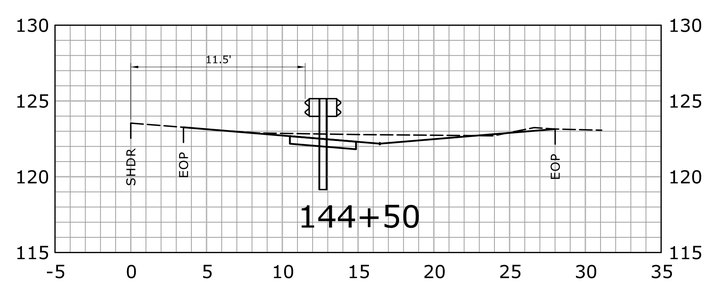


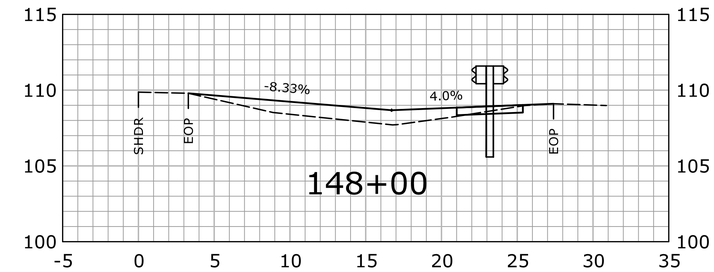


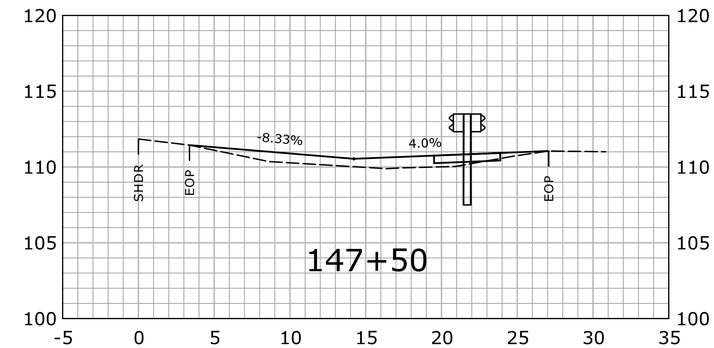


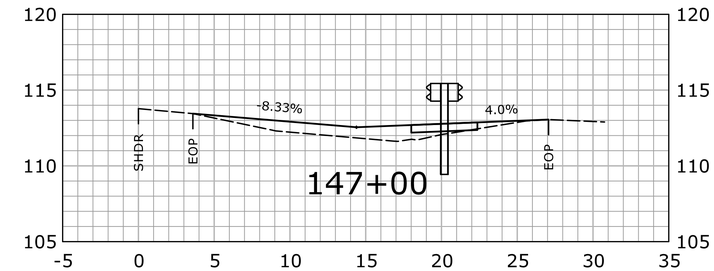


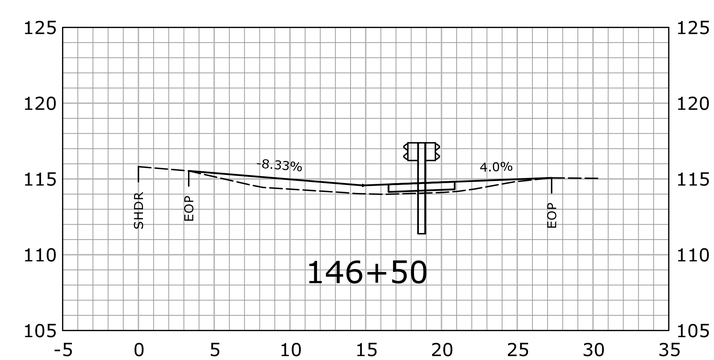












STA.142+50 TO STA.148+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN
CHECKED BY: JDA
SCALE IN FEET 0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

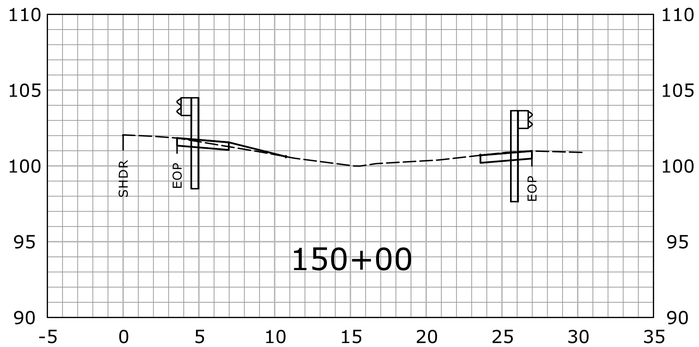
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
Matthew Paul

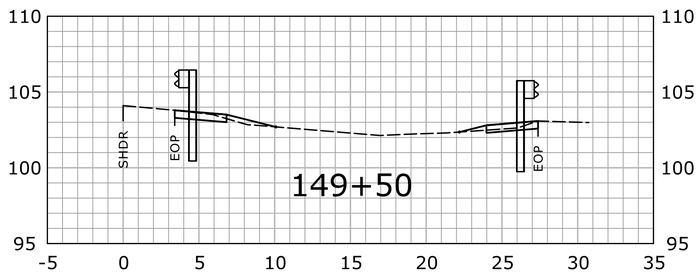
PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

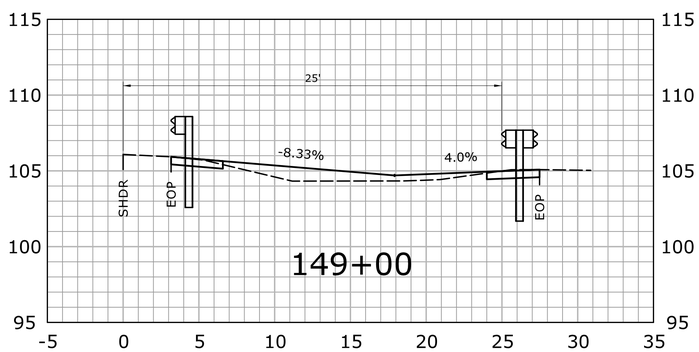
TOWN:
NORWICH AND MONTVILLE

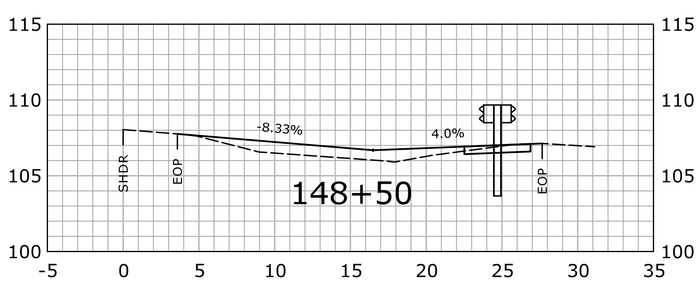
DRAWING TITLE:
CROSS SECTIONS

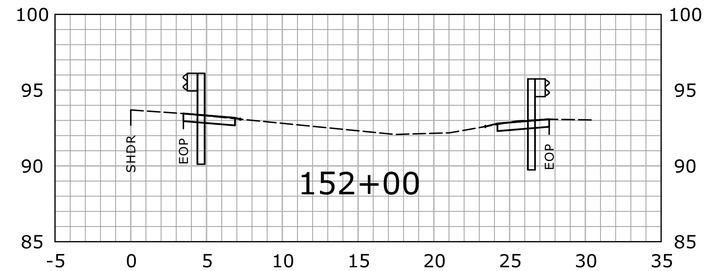
PROJECT NO. 0103-0272
DRAWING NO. XSC-08
SHEET NO. 03.42

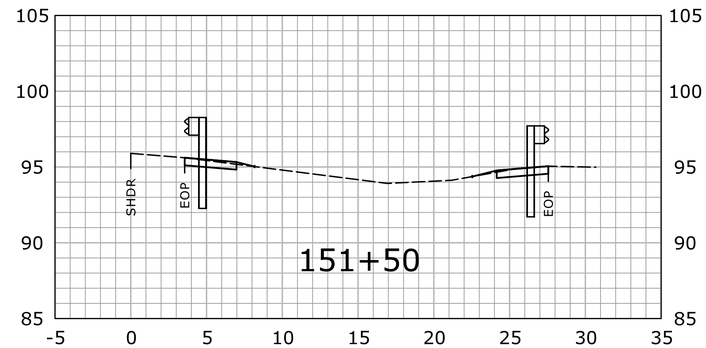


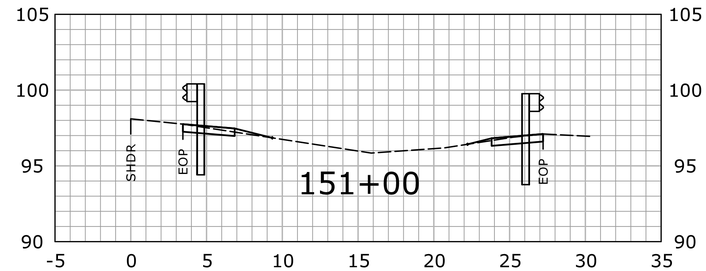


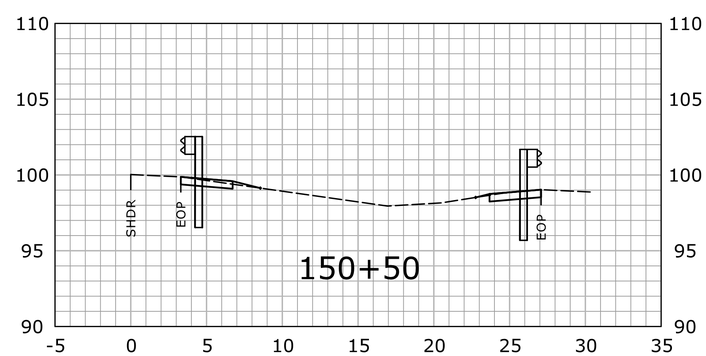


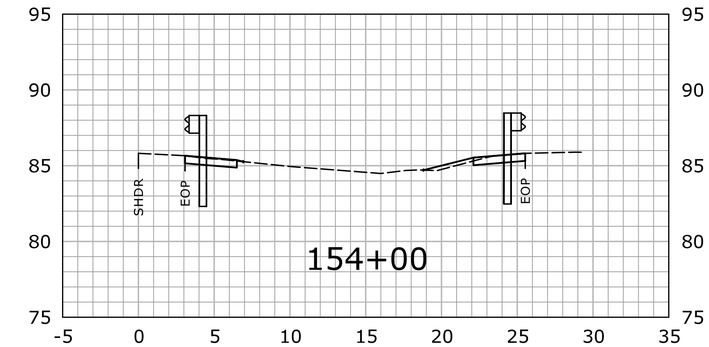


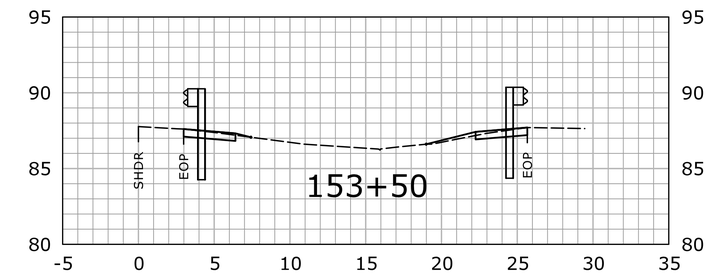


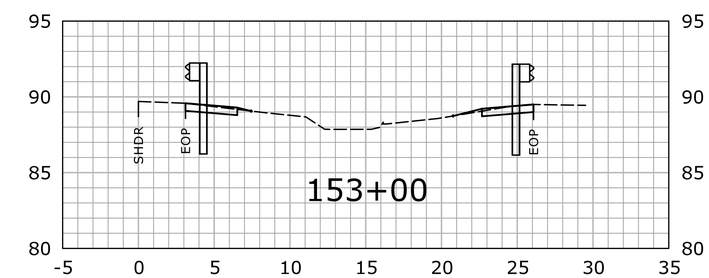


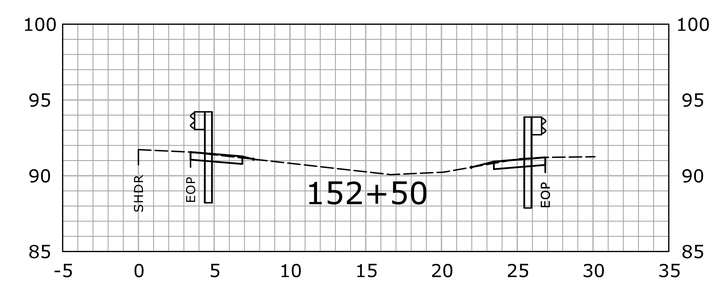












STA.148+50 TO STA.154+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN
CHECKED BY: JDA
SCALE IN FEET
0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

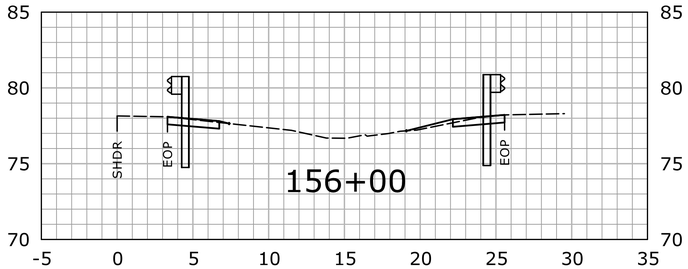
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
Matthew Paul

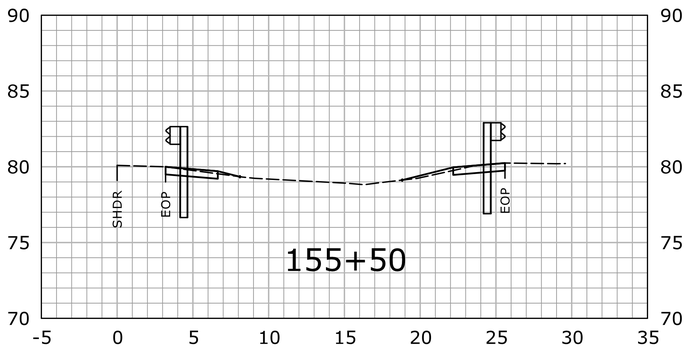
PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

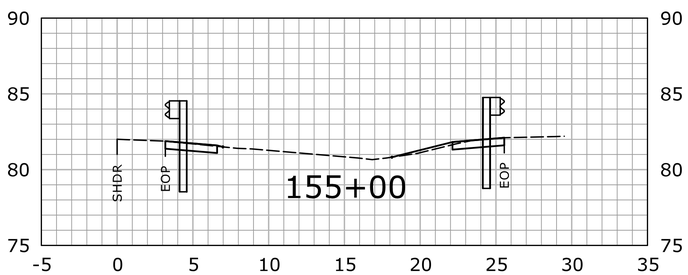
TOWN:
NORWICH AND MONTVILLE

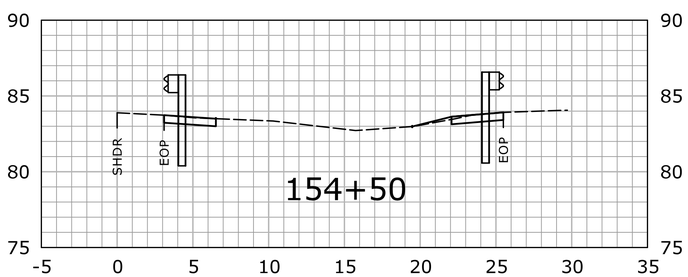
DRAWING TITLE:
CROSS SECTIONS

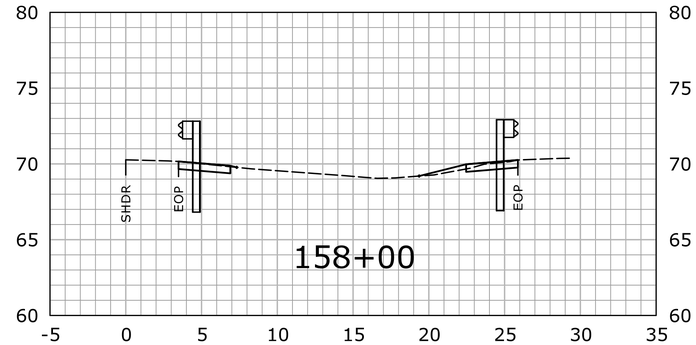
PROJECT NO. 0103-0272
DRAWING NO. XSC-09
SHEET NO. 03.43

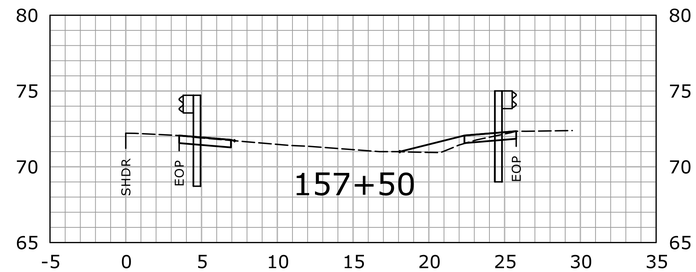


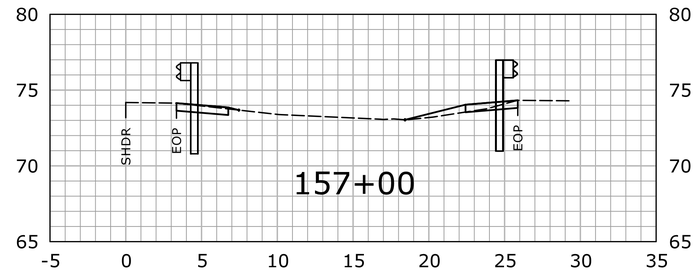


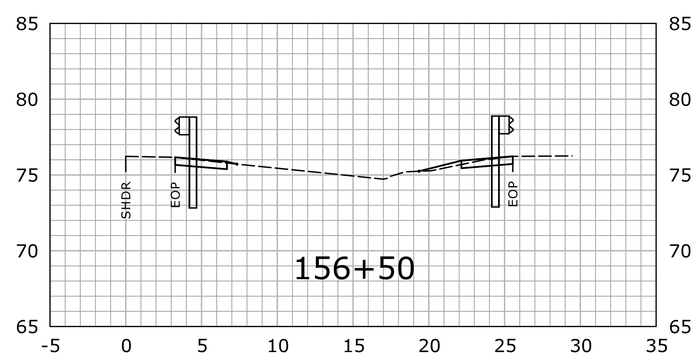


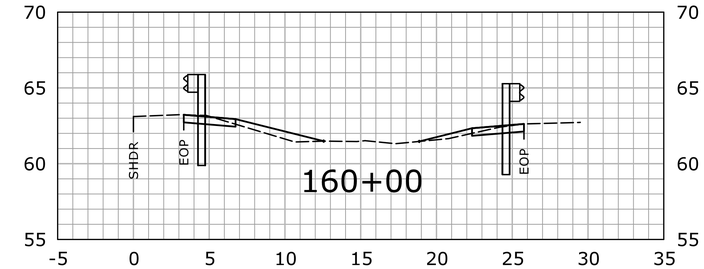


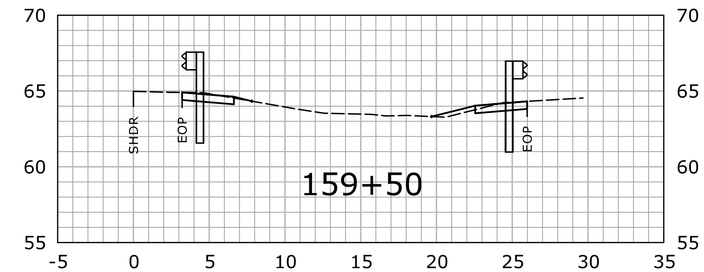


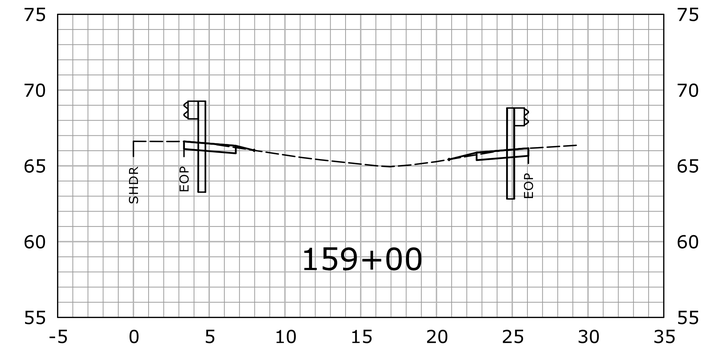


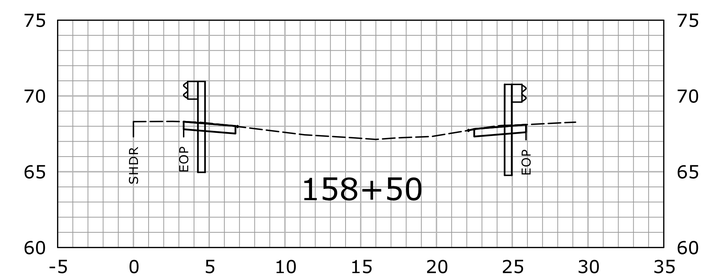












STA.154+50 TO STA.160+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN
CHECKED BY: JDA
SCALE IN FEET 0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

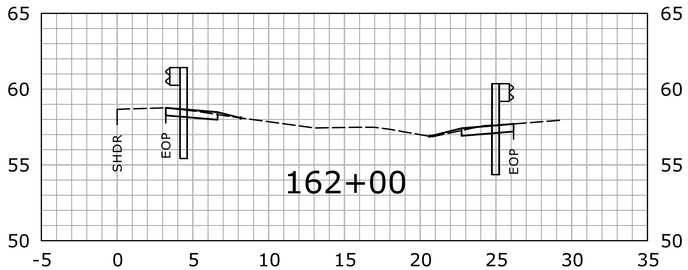
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
Matthew Paul

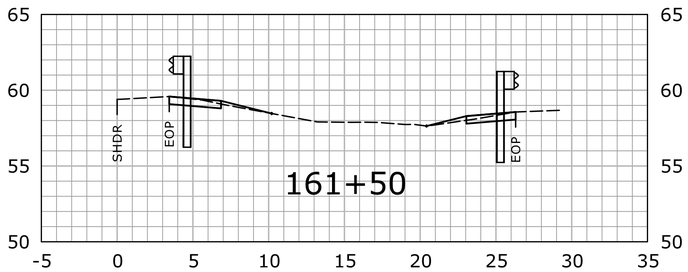
PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

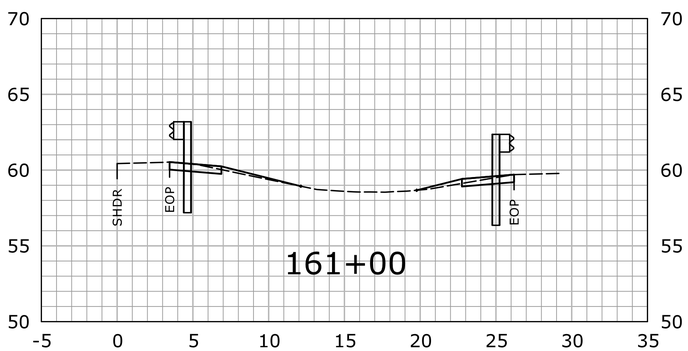
TOWN:
NORWICH AND MONTVILLE

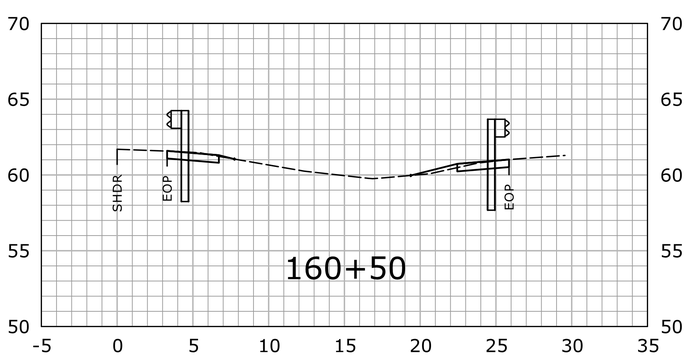
DRAWING TITLE:
CROSS SECTIONS

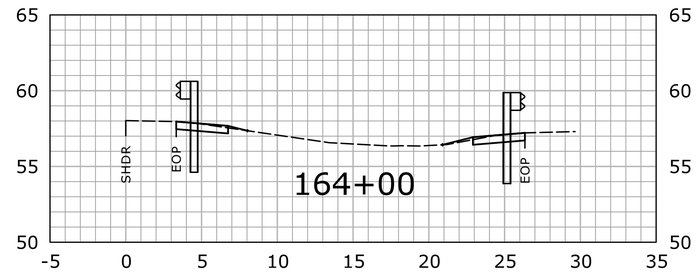
PROJECT NO. 0103-0272
DRAWING NO. XSC-10
SHEET NO. 03.44

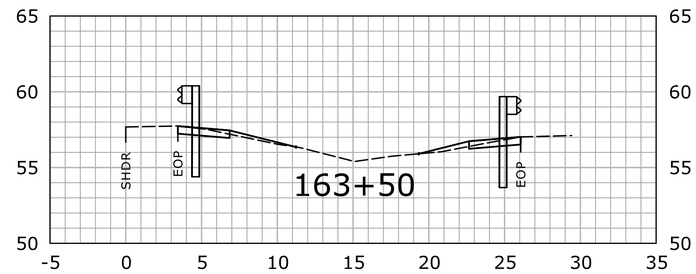


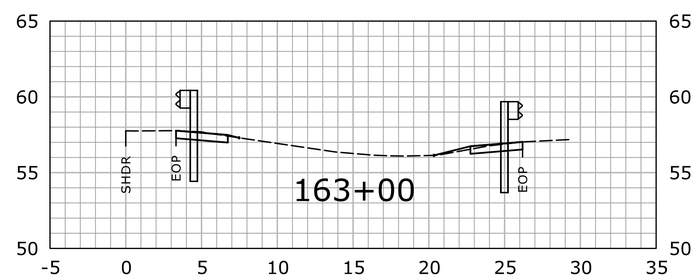


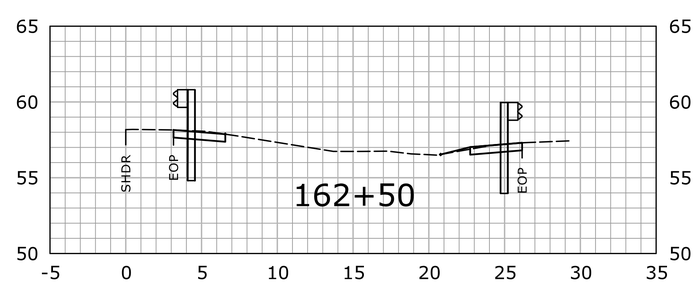


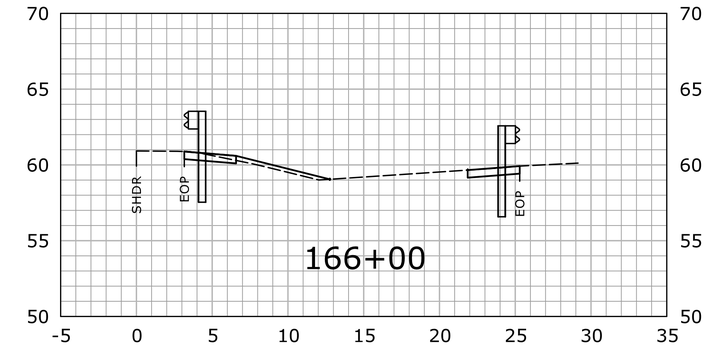


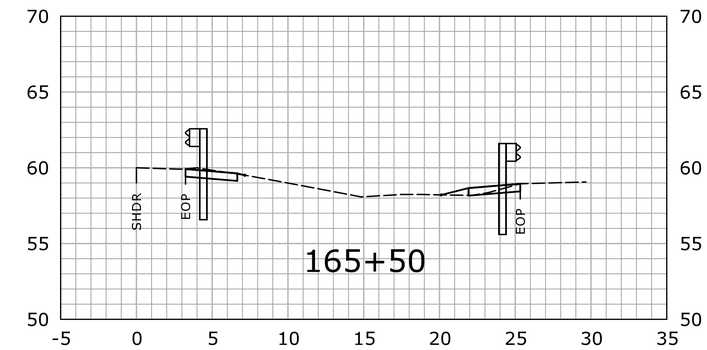


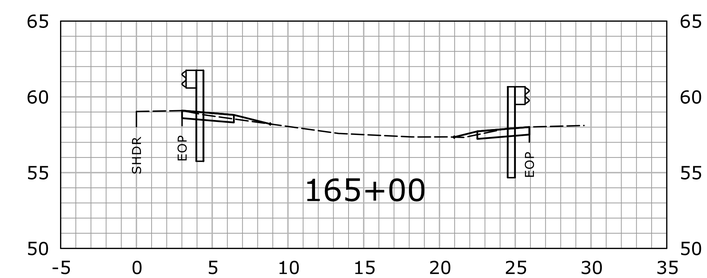


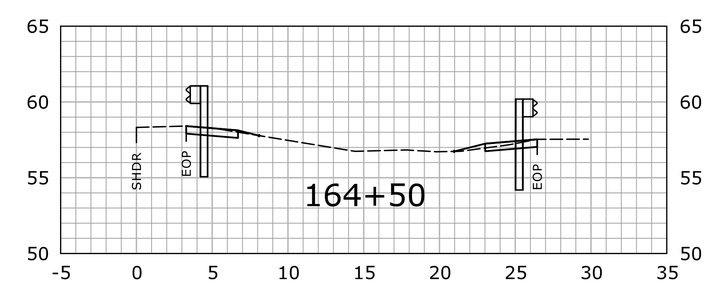












STA.160+50 TO STA.166+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Matthew Vail

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

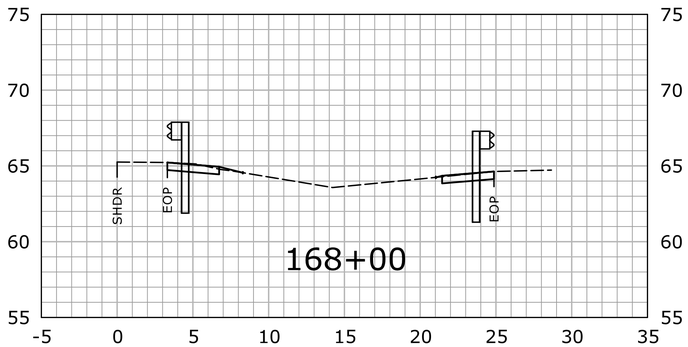
TOWN: NORWICH AND MONTVILLE

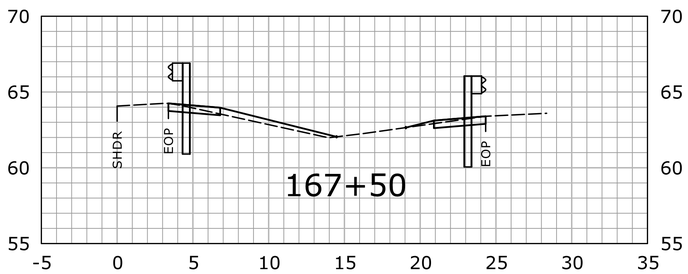
DRAWING TITLE: CROSS SECTIONS

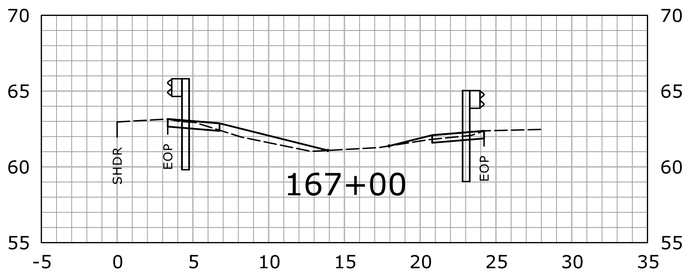
PROJECT NO. 0103-0272

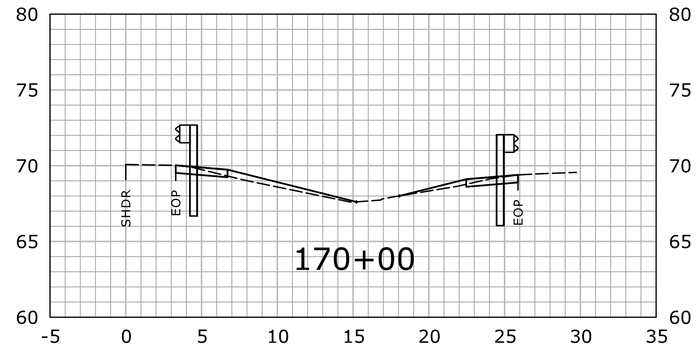
DRAWING NO. XSC-11

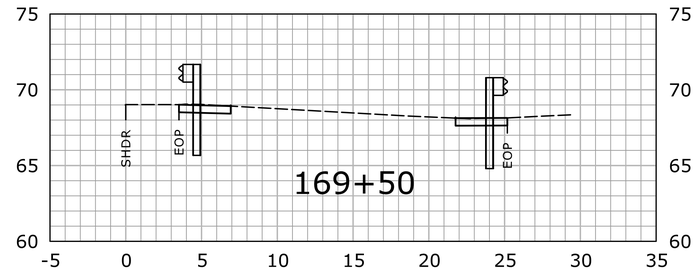
SHEET NO. 03.45

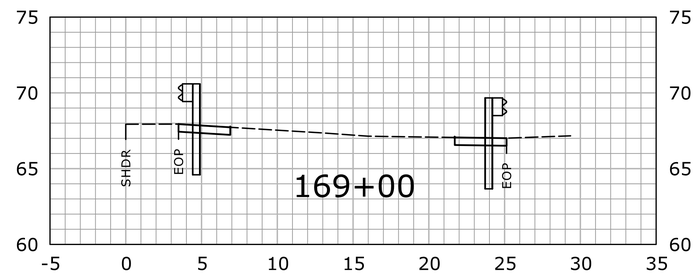


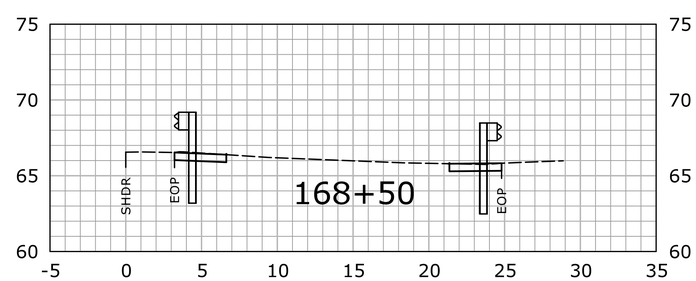


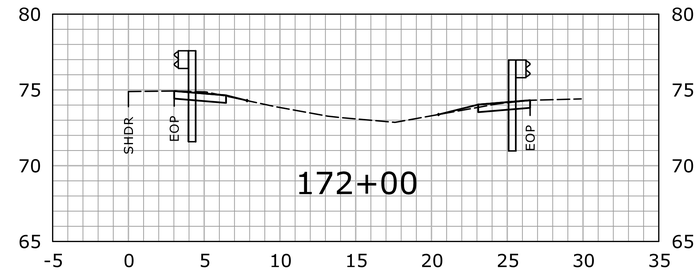


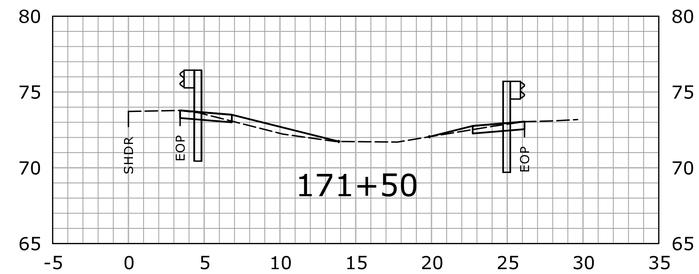


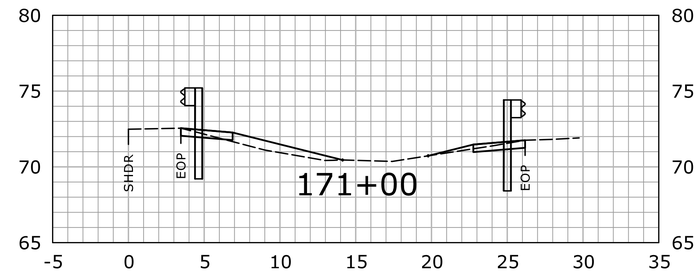


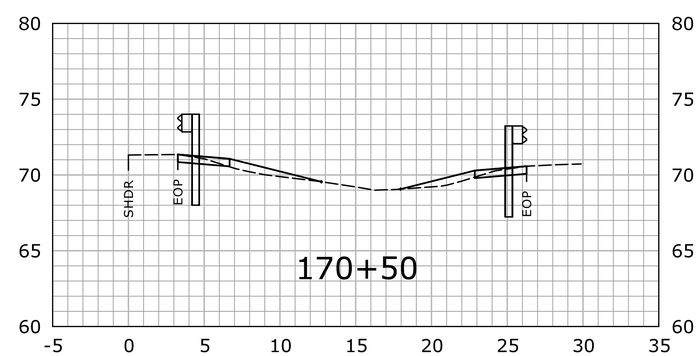












STA.166+50 TO STA.172+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
Matthew Paul

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

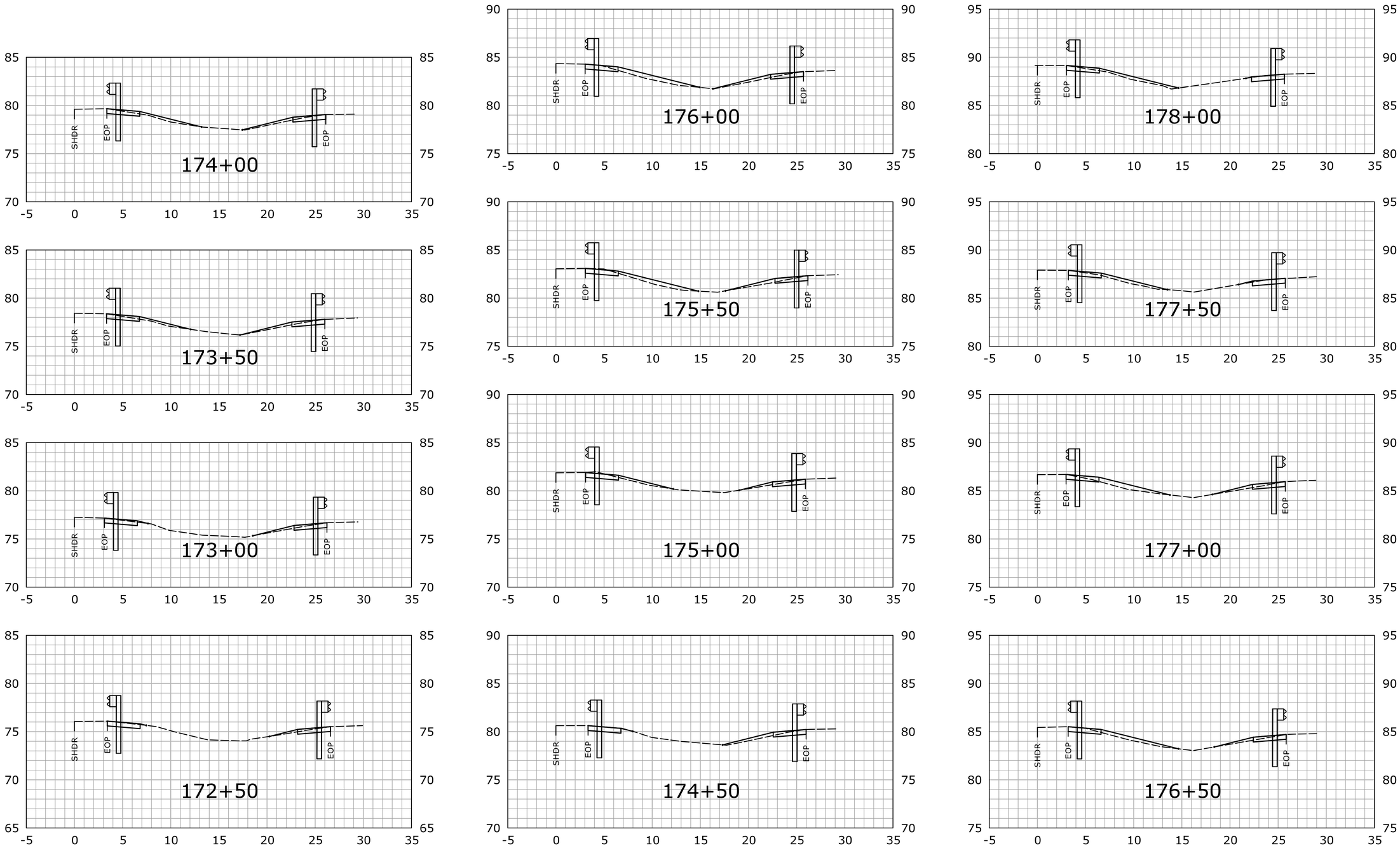
TOWN:
NORWICH AND MONTVILLE

DRAWING TITLE:
CROSS SECTIONS

PROJECT NO. 0103-0272

DRAWING NO. XSC-12

SHEET NO. 03.46



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Matthew Paul

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

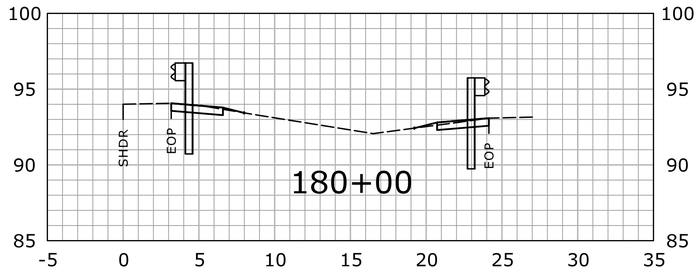
TOWN: NORWICH AND MONTVILLE

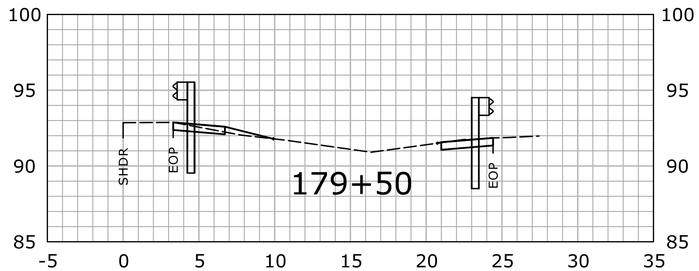
DRAWING TITLE: CROSS SECTIONS

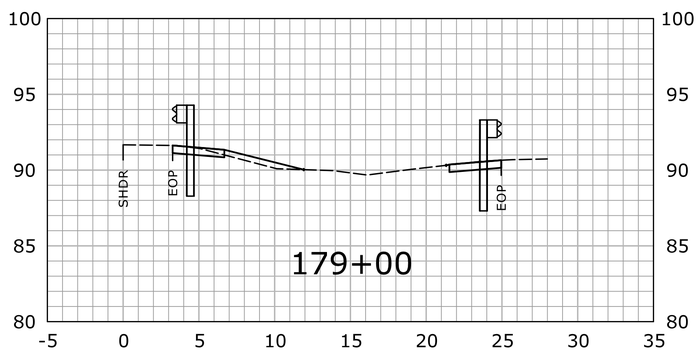
PROJECT NO. 0103-0272

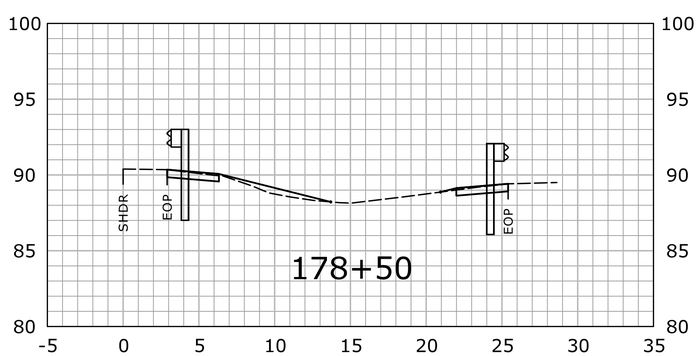
DRAWING NO. XSC-13

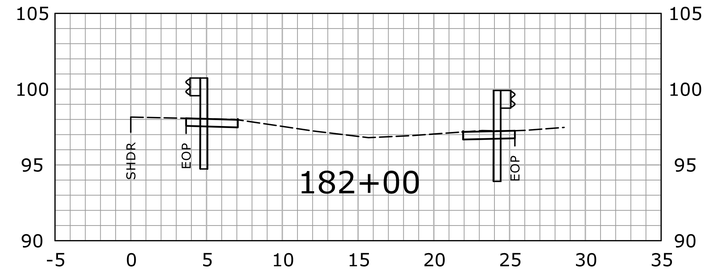
SHEET NO. 03.47

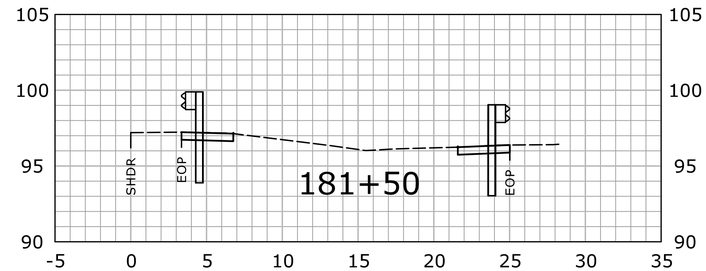


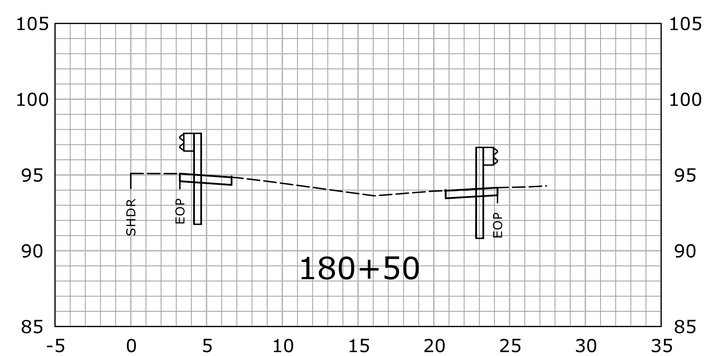


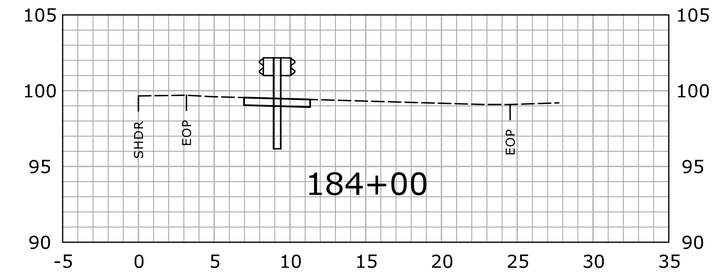


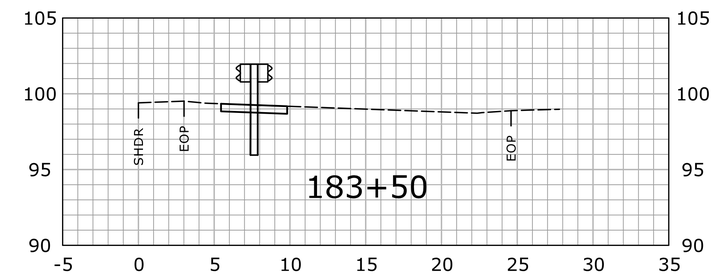


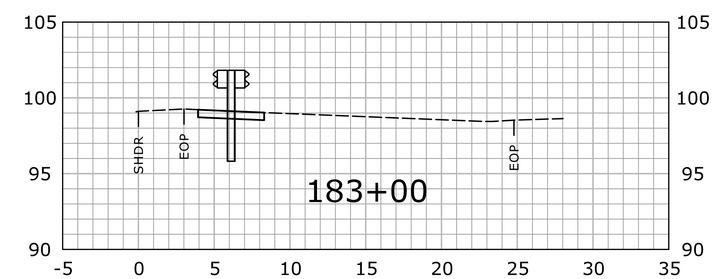


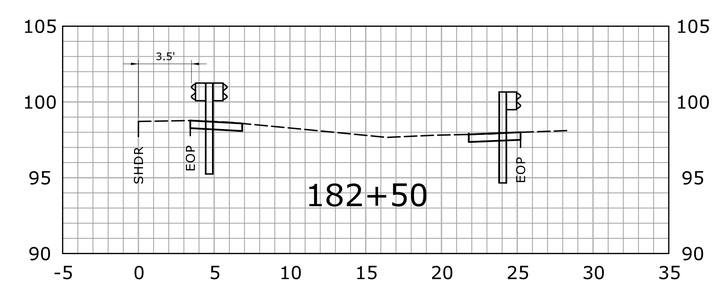












STA.178+50 TO STA.184+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Matthew Vail

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

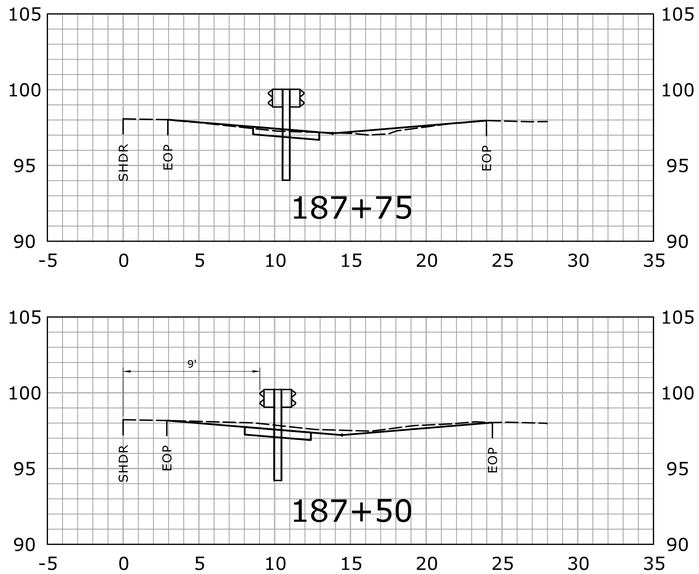
TOWN: NORWICH AND MONTVILLE

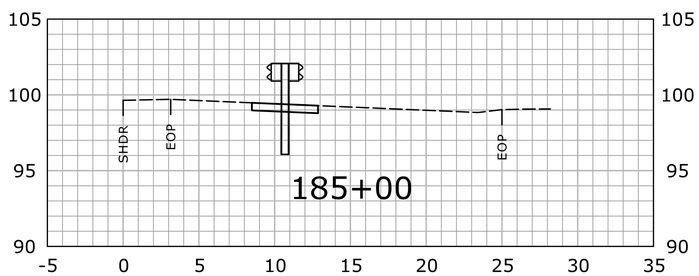
DRAWING TITLE: CROSS SECTIONS

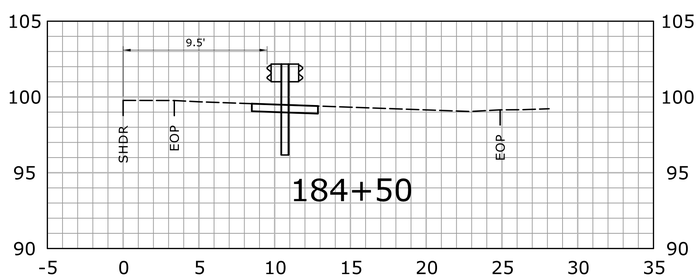
PROJECT NO. 0103-0272

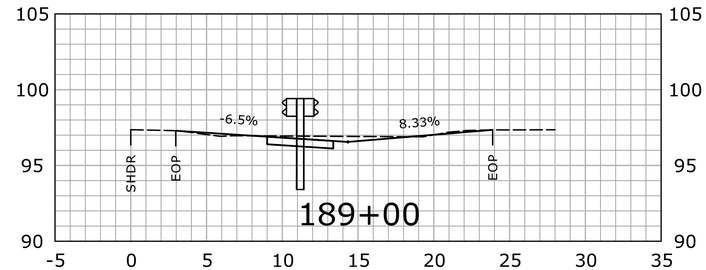
DRAWING NO. XSC-14

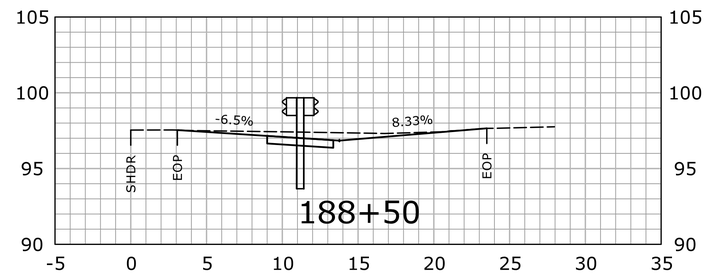
SHEET NO. 03.48

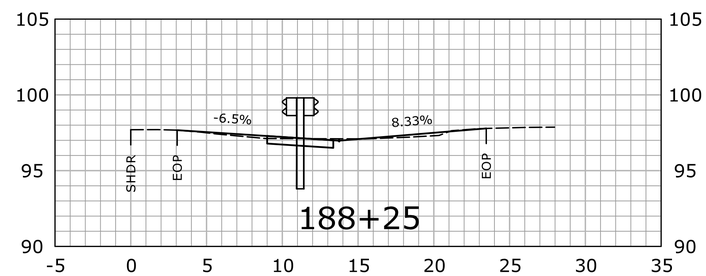


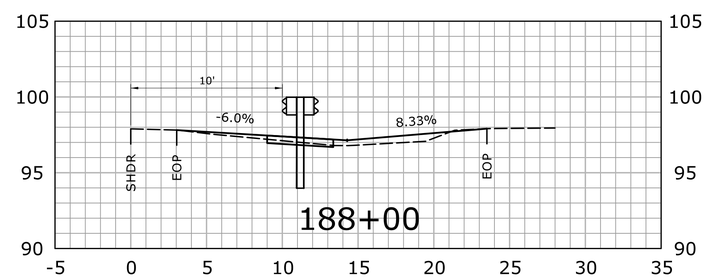


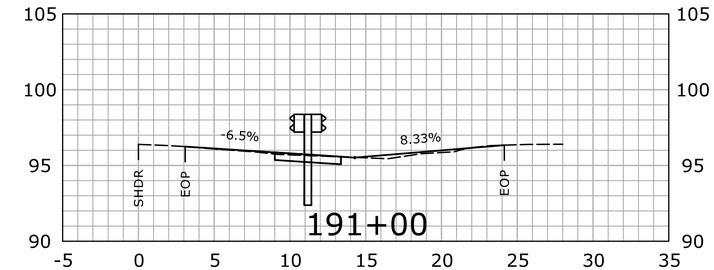


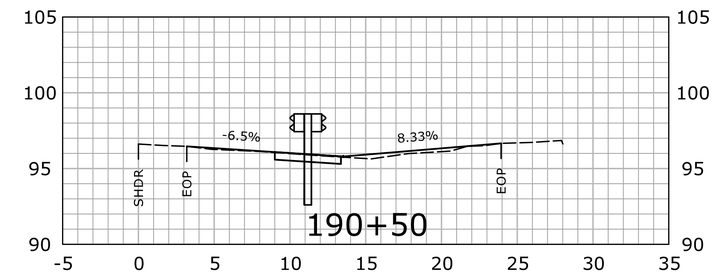


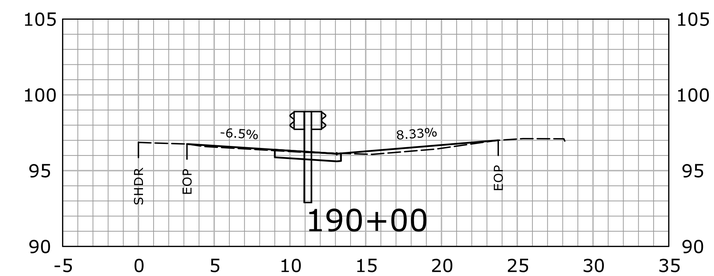


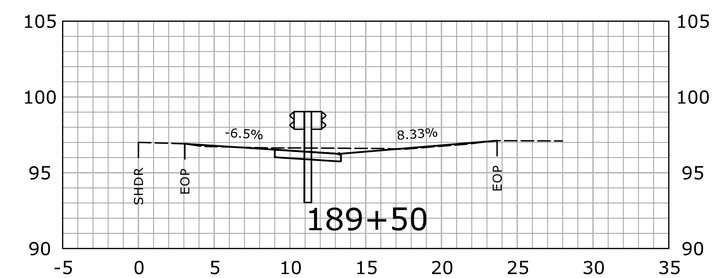












STA.184+50 TO STA.191+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
Matthew Vail

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

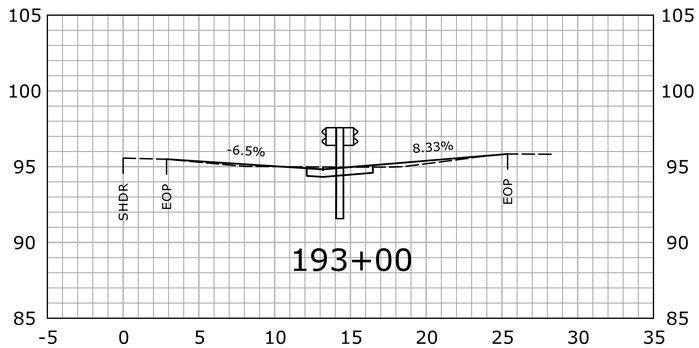
TOWN:
NORWICH AND MONTVILLE

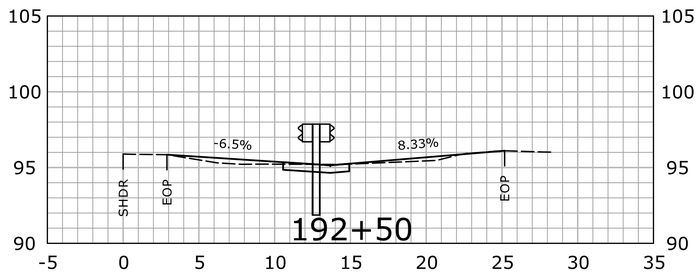
DRAWING TITLE:
CROSS SECTIONS

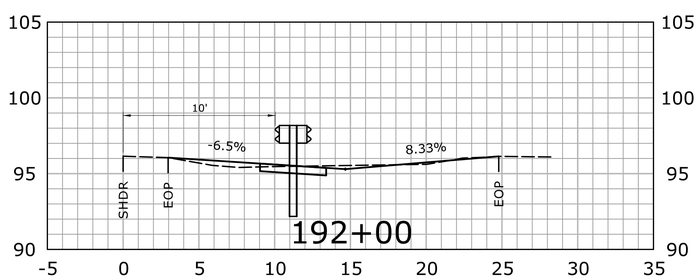
PROJECT NO. 0103-0272

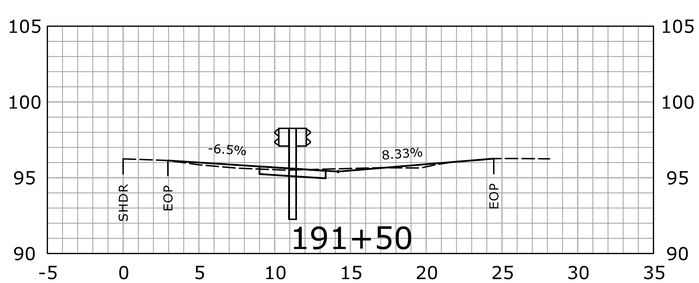
DRAWING NO. XSC-15

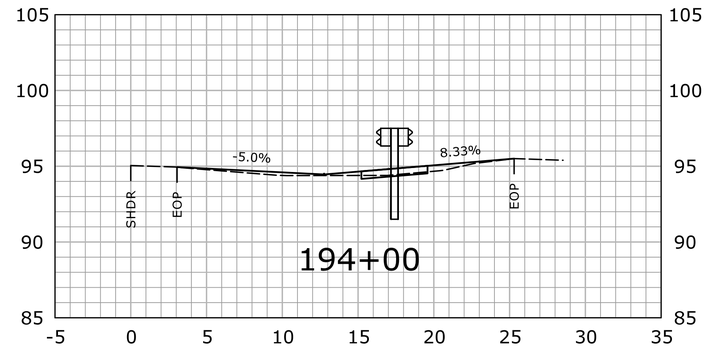
SHEET NO. 03.49

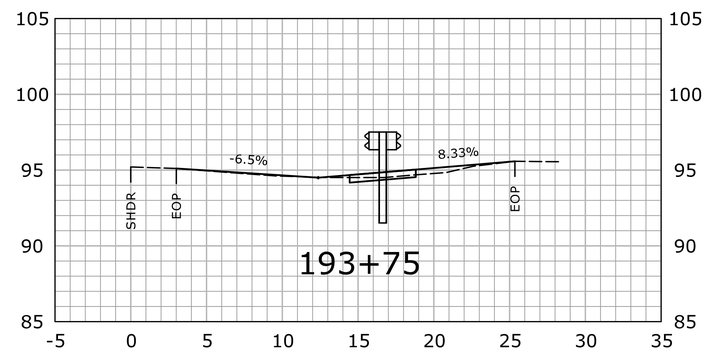


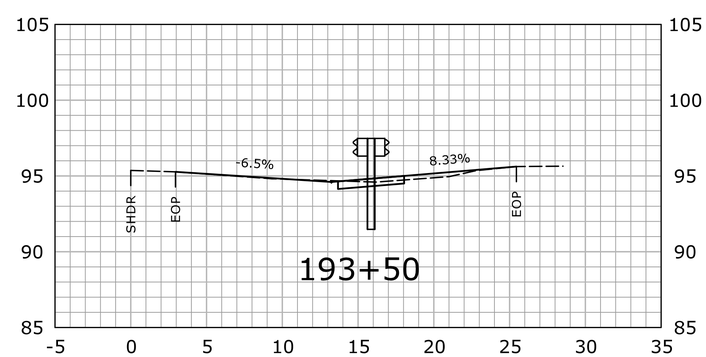


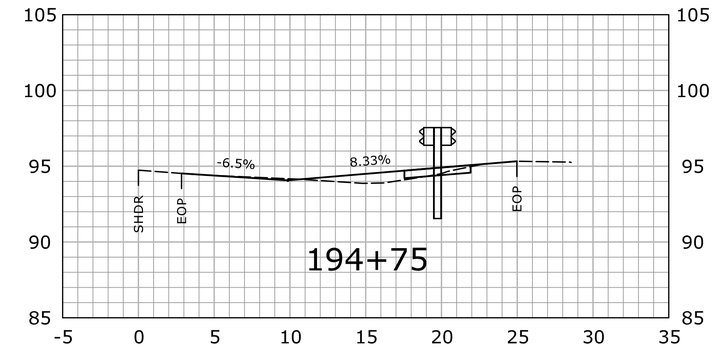


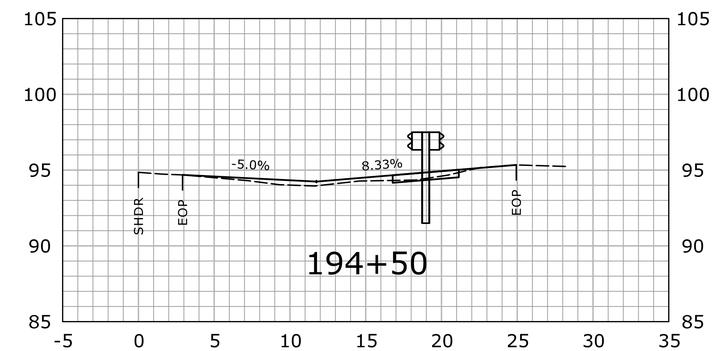


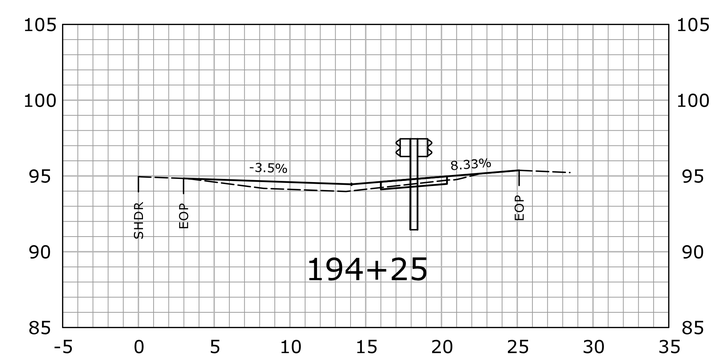












STA.191+50 TO STA.194+75

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Matthew Vail

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

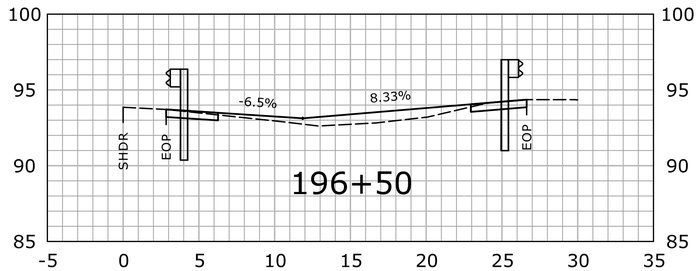
TOWN: NORWICH AND MONTVILLE

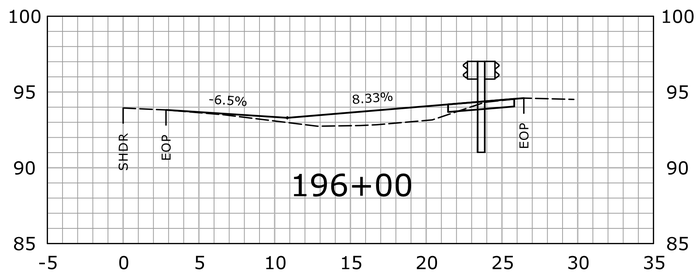
DRAWING TITLE: CROSS SECTIONS

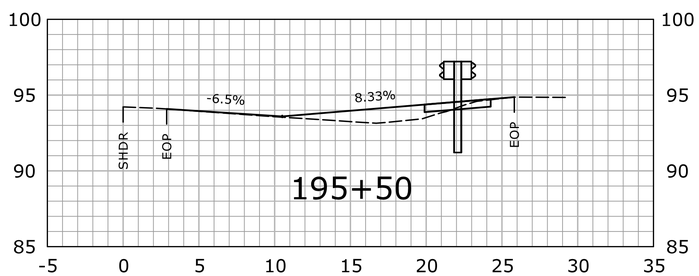
PROJECT NO. 0103-0272

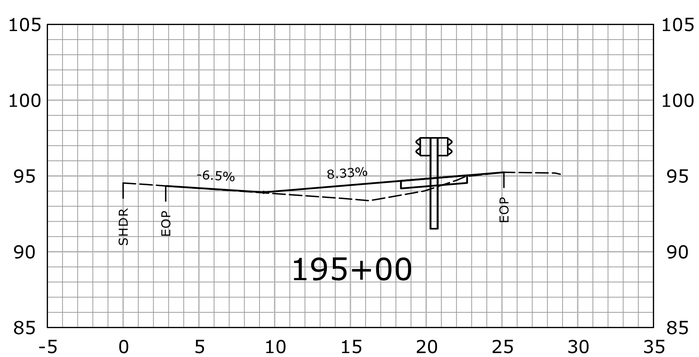
DRAWING NO. XSC-16

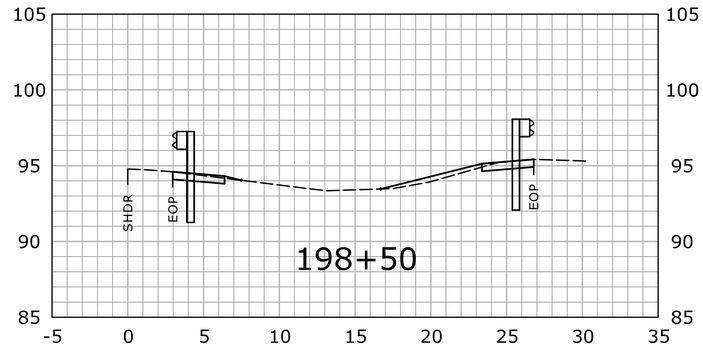
SHEET NO. 03.50

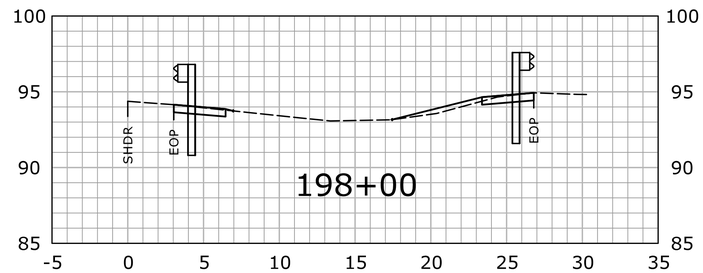


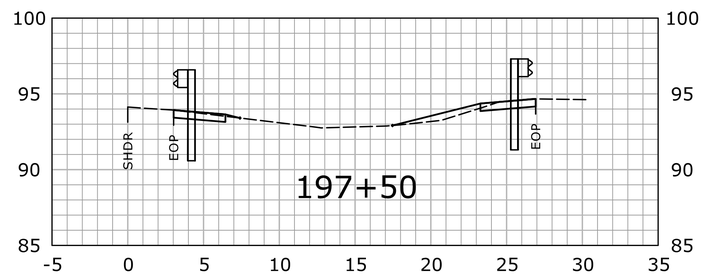


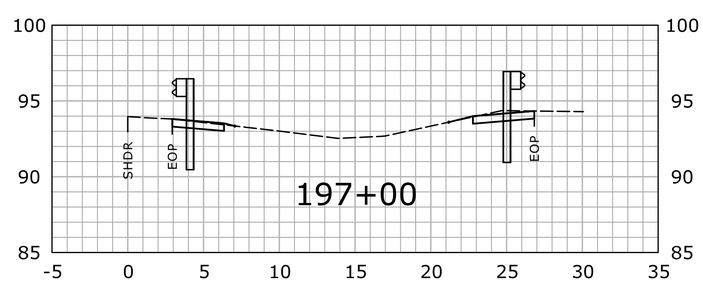


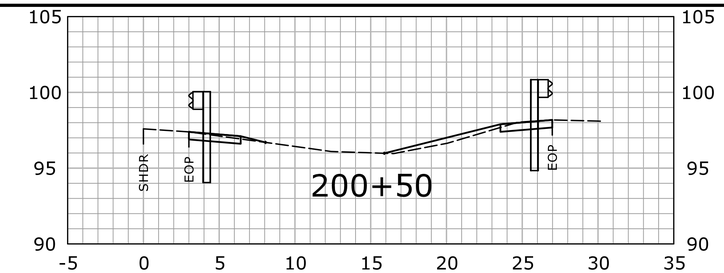


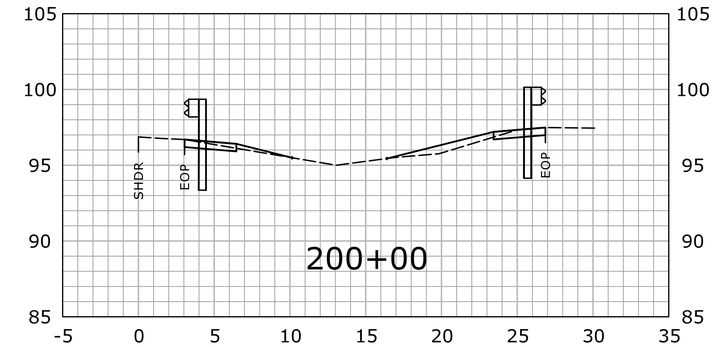


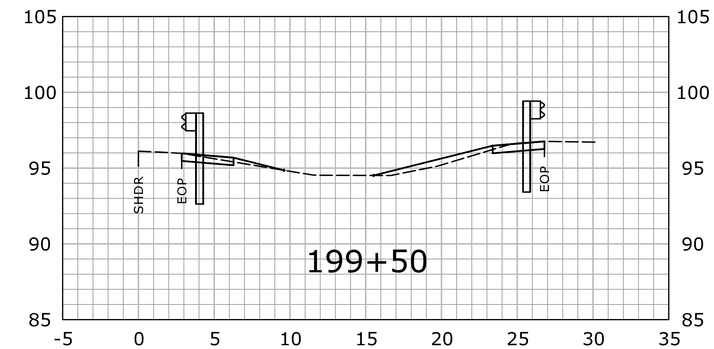


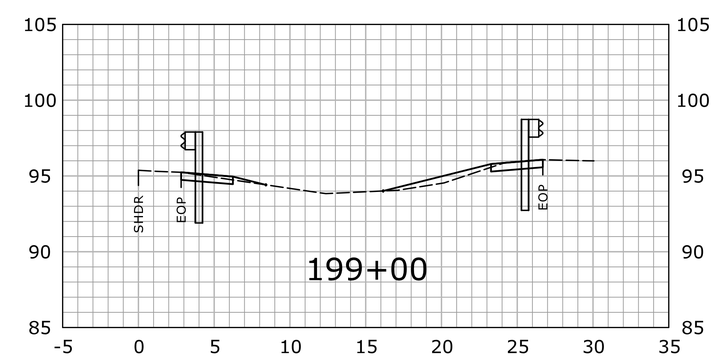












STA.195+00 TO STA.200+50

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: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

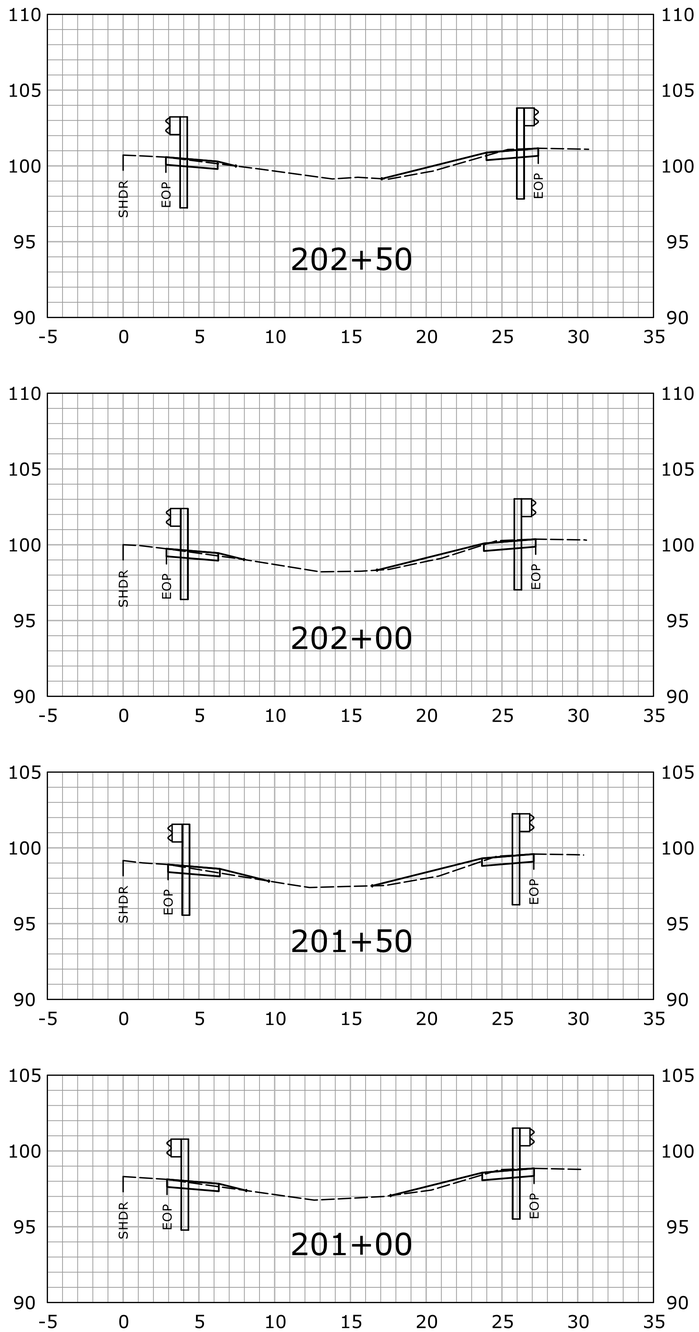
TOWN:
NORWICH AND MONTVILLE

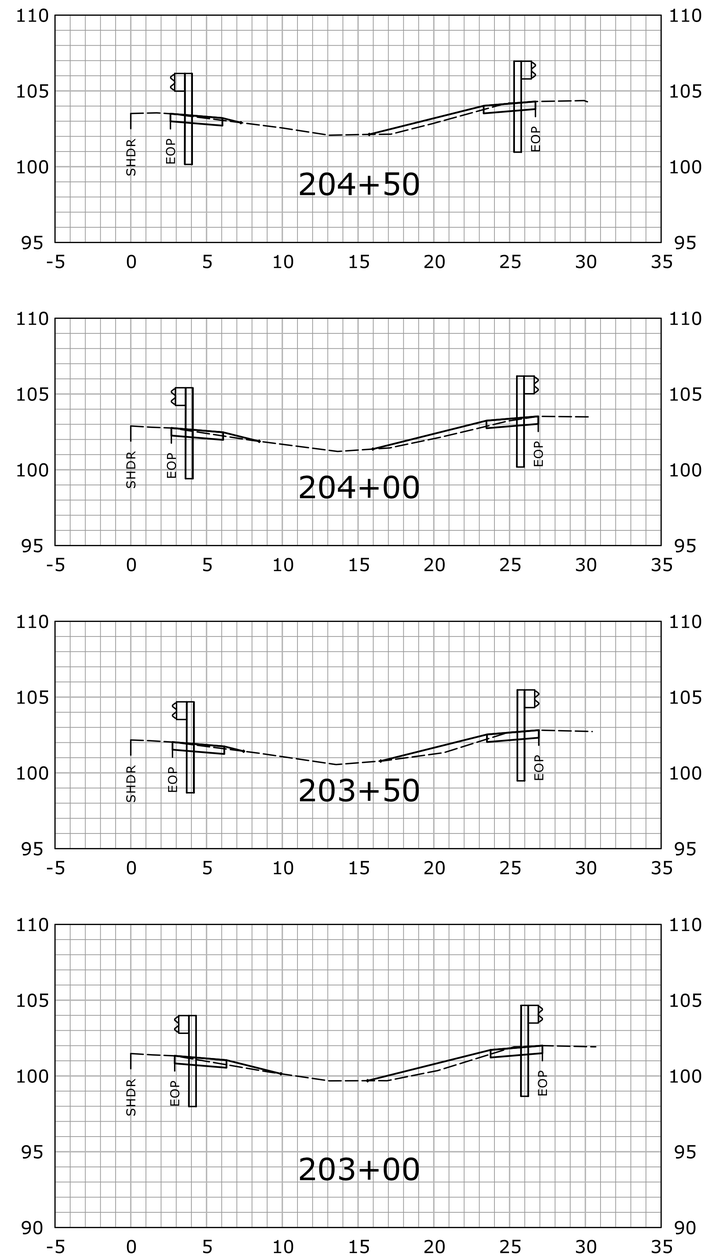
DRAWING TITLE:
CROSS SECTIONS

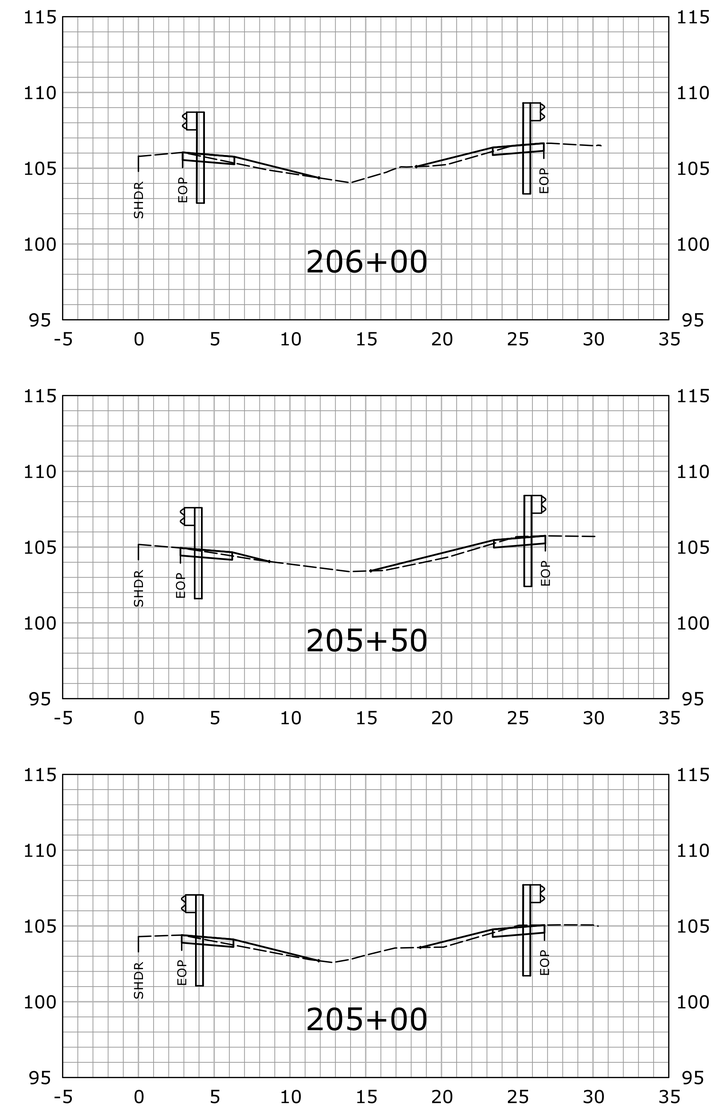
PROJECT NO. 0103-0272

DRAWING NO. XSC-17

SHEET NO. 03.51







STA.201+00 TO STA.206+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
Matthew Paul

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

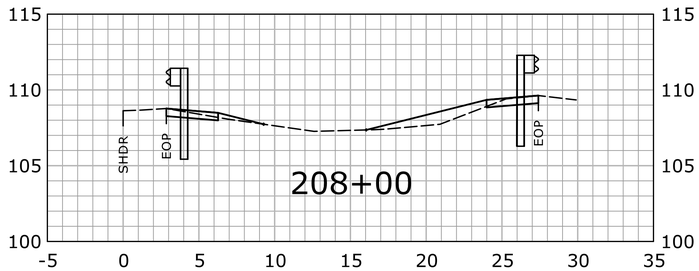
TOWN:
NORWICH AND MONTVILLE

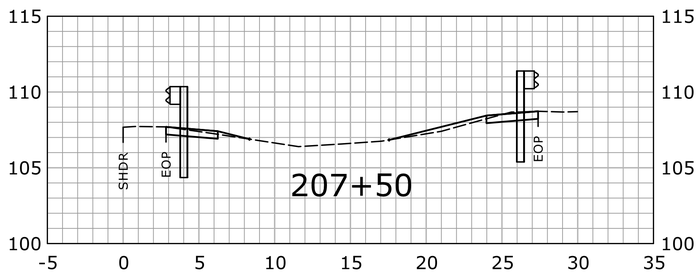
DRAWING TITLE:
CROSS SECTIONS

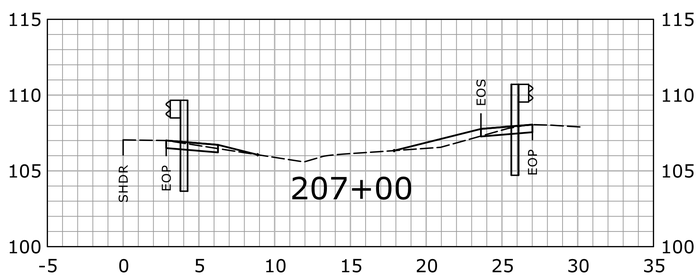
PROJECT NO. 0103-0272

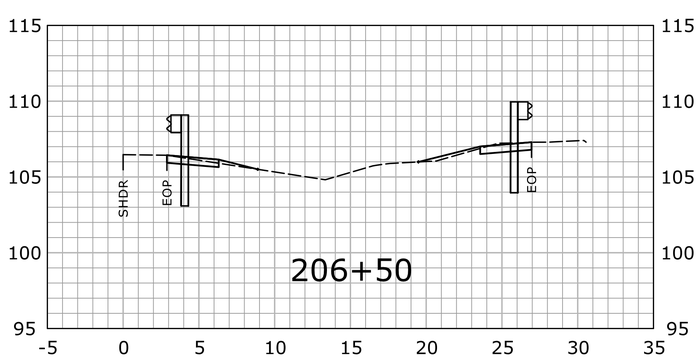
DRAWING NO. XSC-18

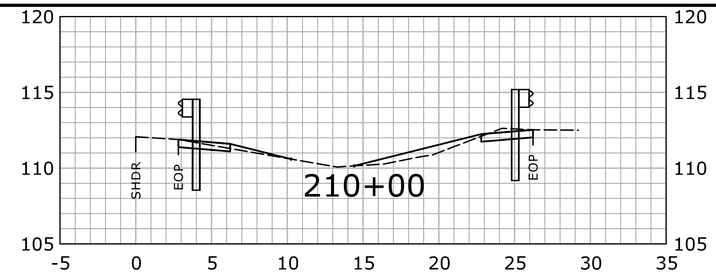
SHEET NO. 03.52

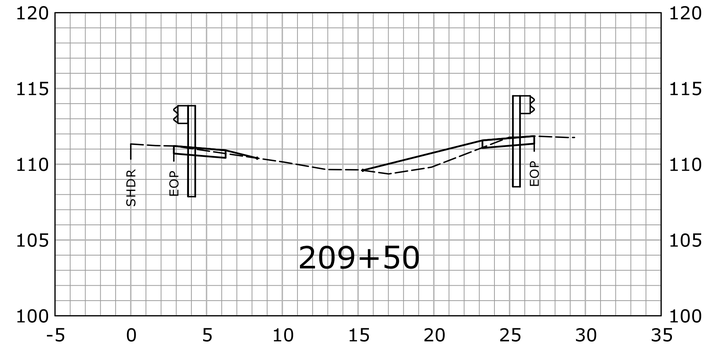


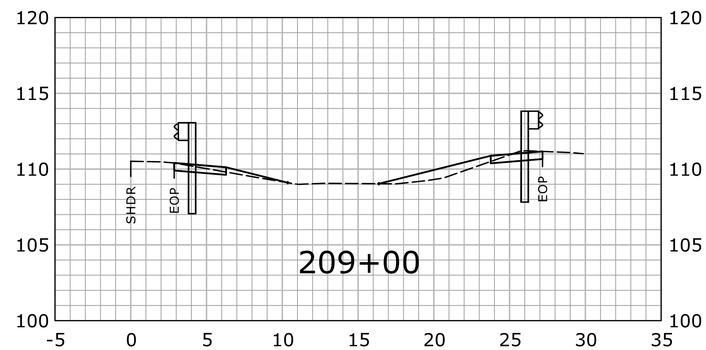


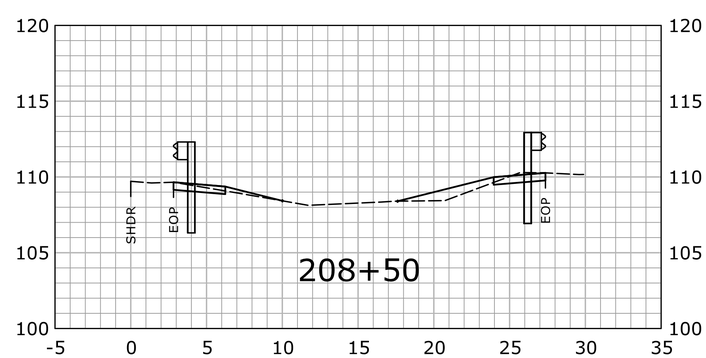


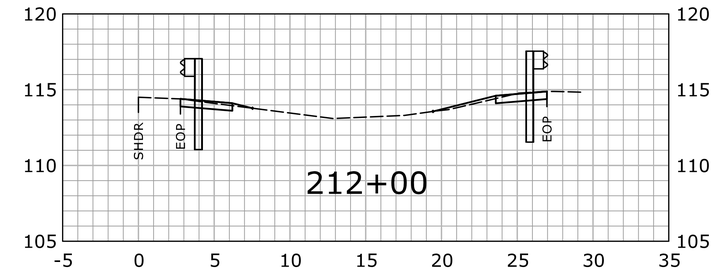


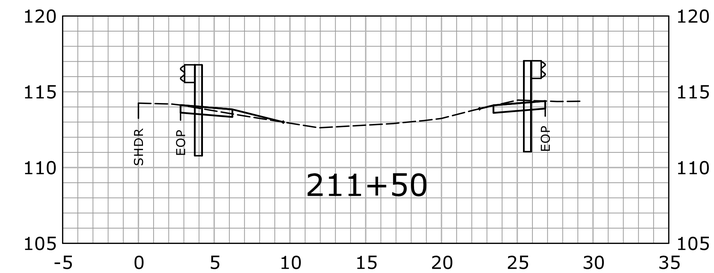


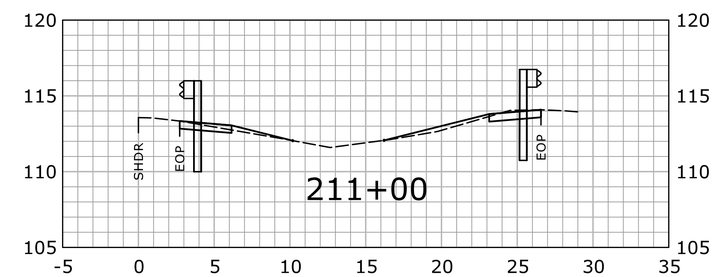


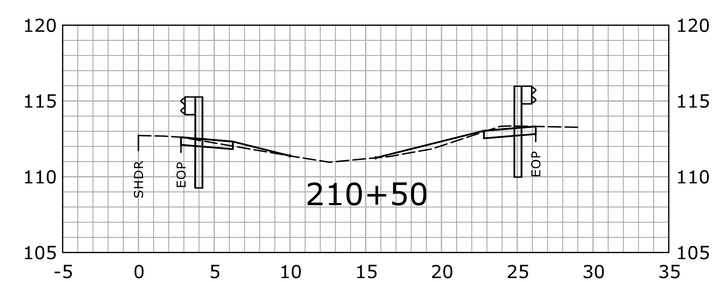












STA.206+50 TO STA.212+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
Matthew Paul

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

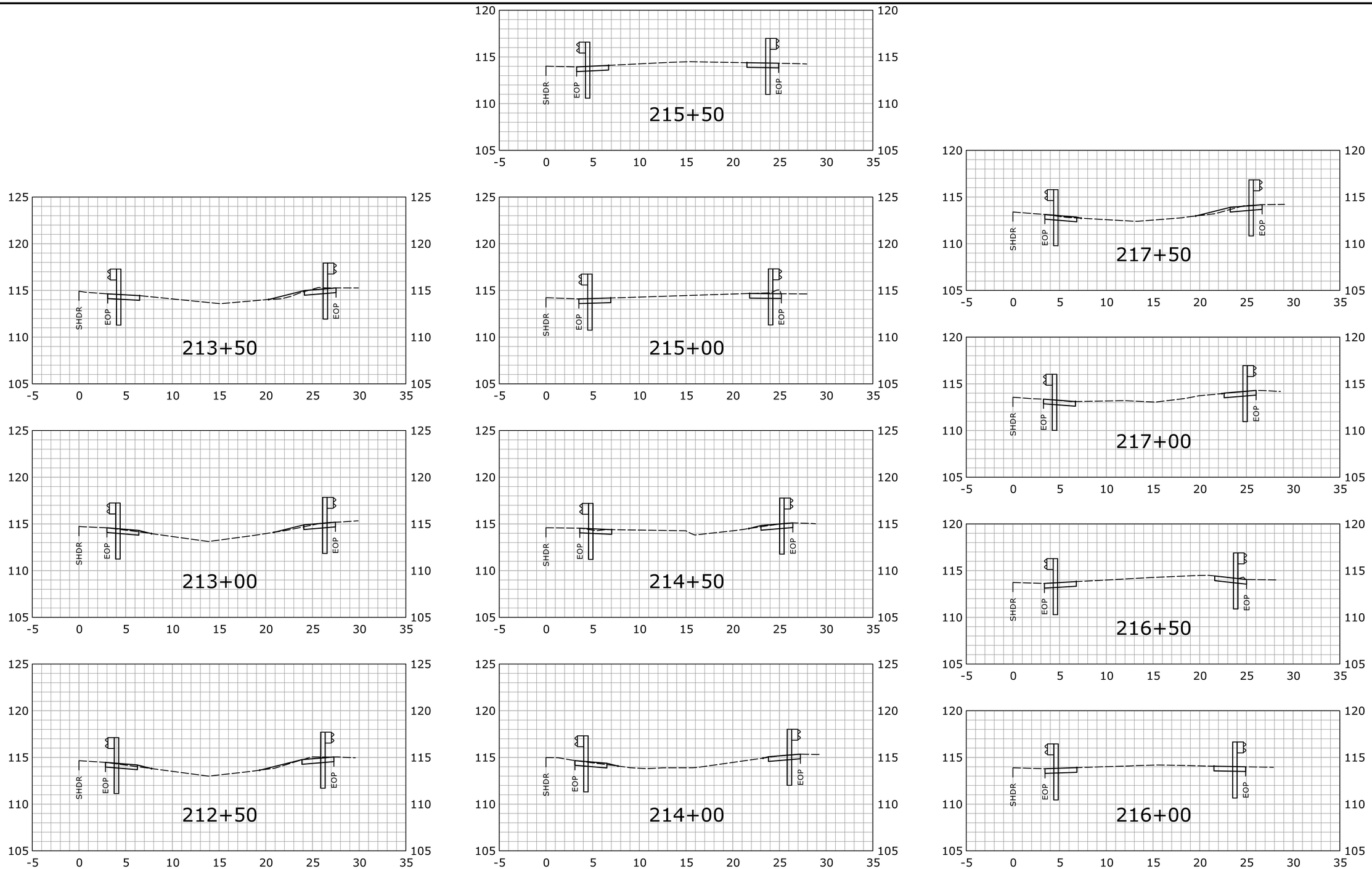
TOWN:
NORWICH AND MONTVILLE

DRAWING TITLE:
CROSS SECTIONS

PROJECT NO. 0103-0272

DRAWING NO. XSC-19

SHEET NO. 03.53



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
Matthew Vail

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

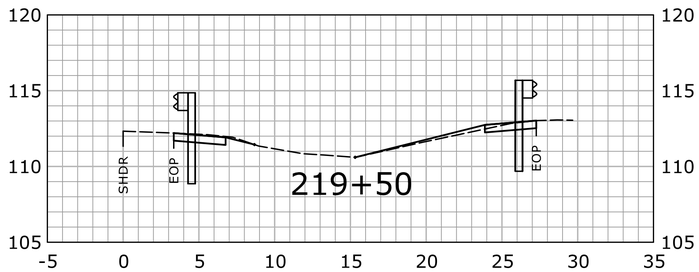
TOWN:
NORWICH AND MONTVILLE

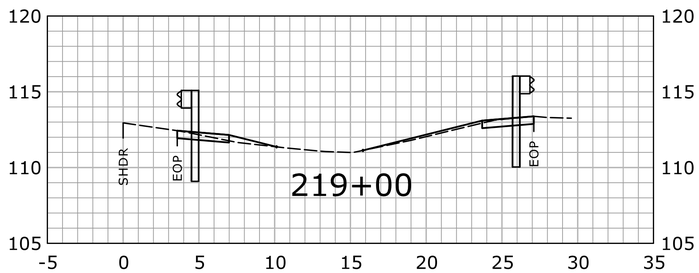
DRAWING TITLE:
CROSS SECTIONS

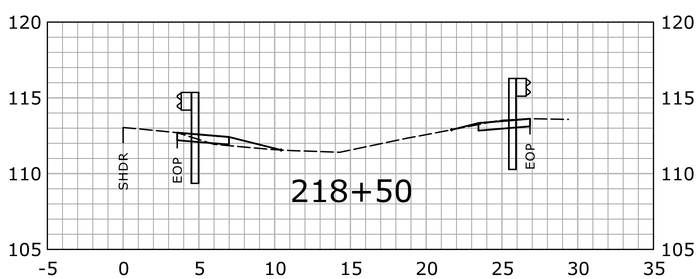
PROJECT NO. 0103-0272

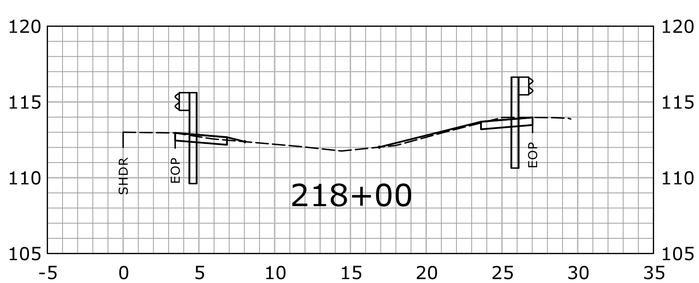
DRAWING NO. XSC-20

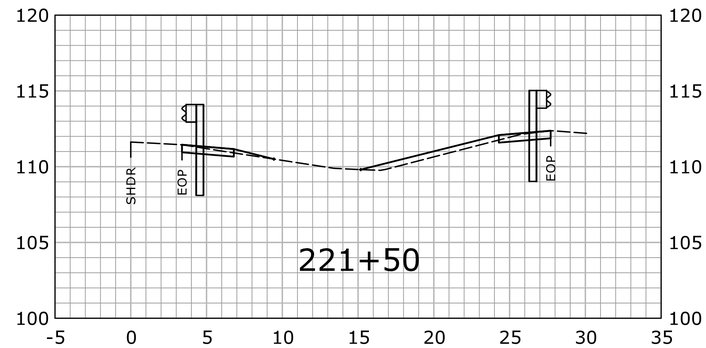
SHEET NO. 03.54

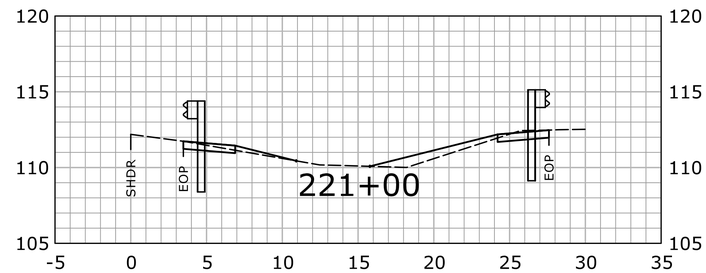


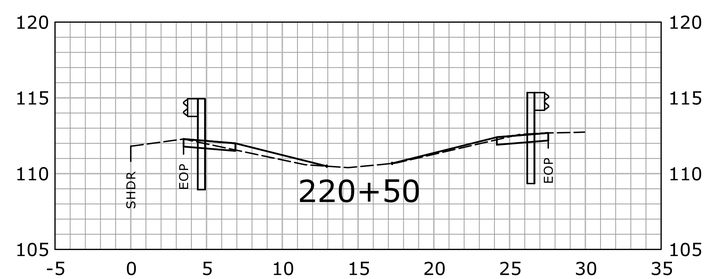


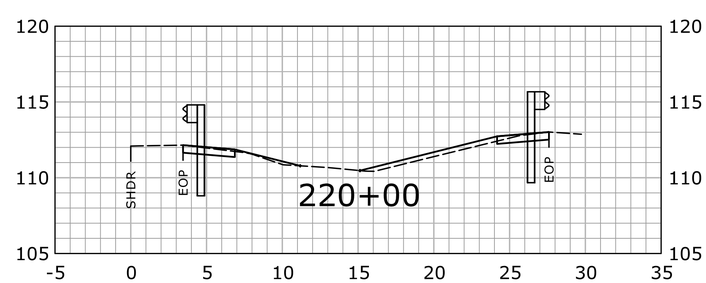


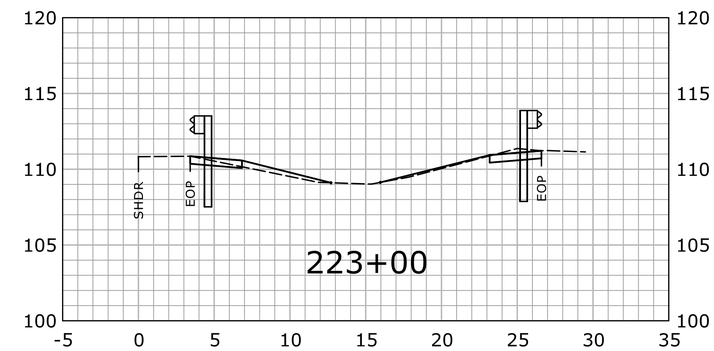


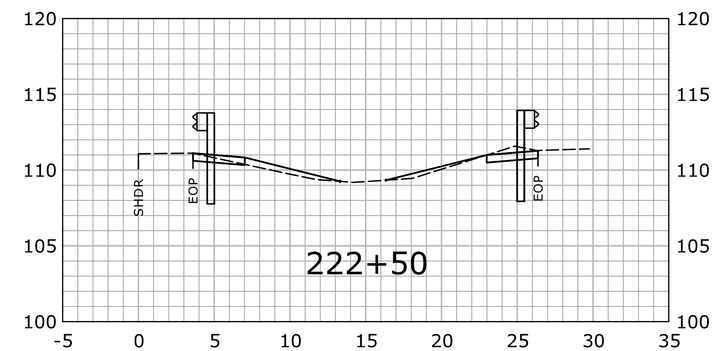


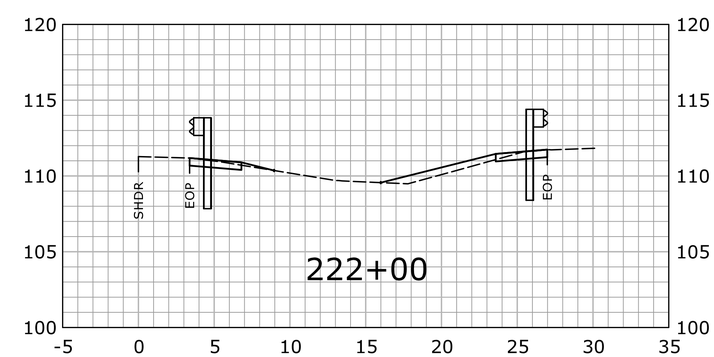












STA.218+00 TO STA.223+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

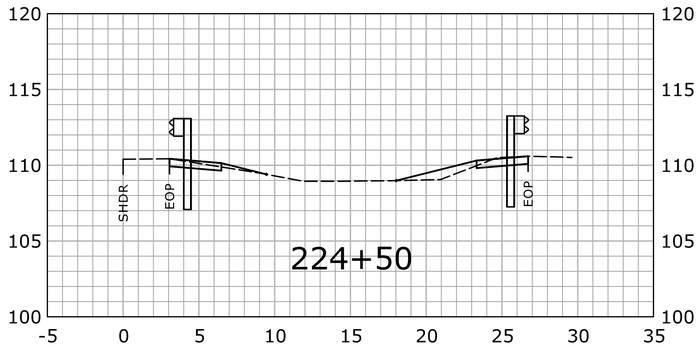
TOWN:
NORWICH AND MONTVILLE

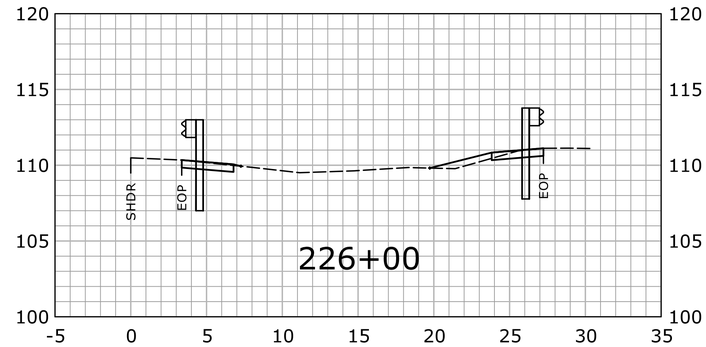
DRAWING TITLE:
CROSS SECTIONS

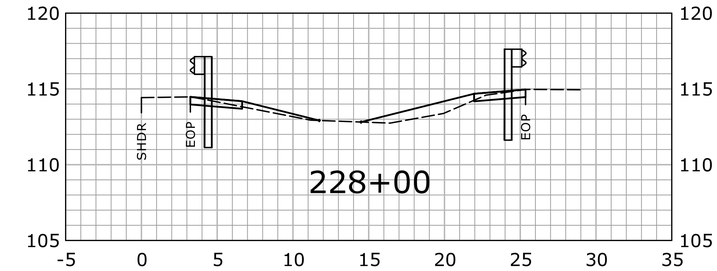
PROJECT NO. 0103-0272

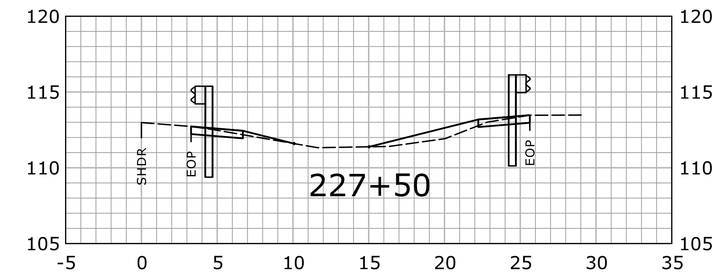
DRAWING NO. XSC-21

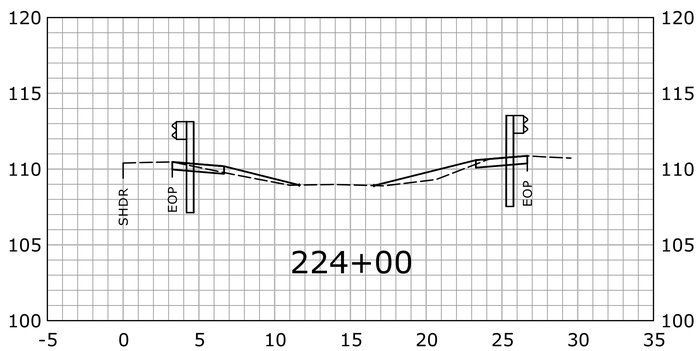
SHEET NO. 03.55

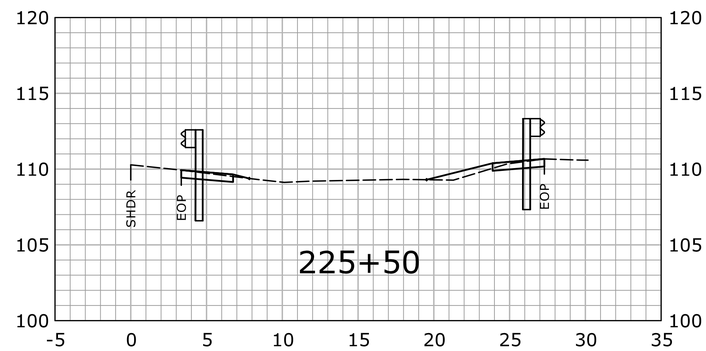


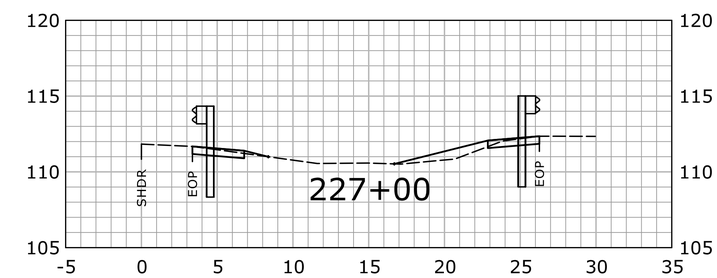


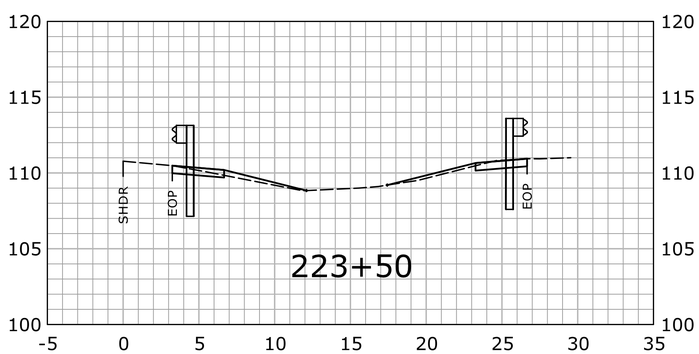


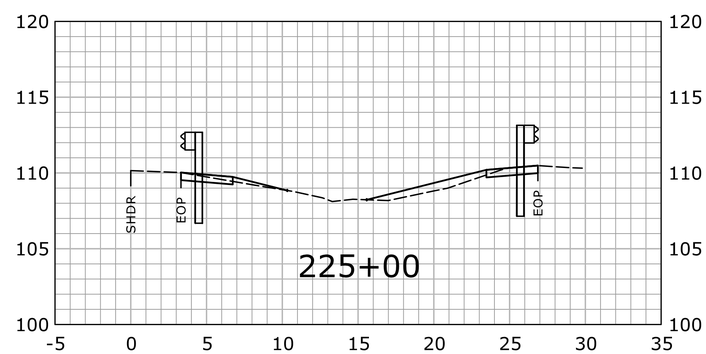


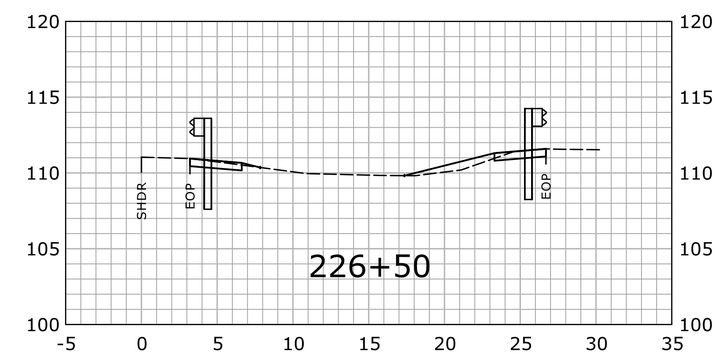












STA.223+50 TO STA.228+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Matthew Paul

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

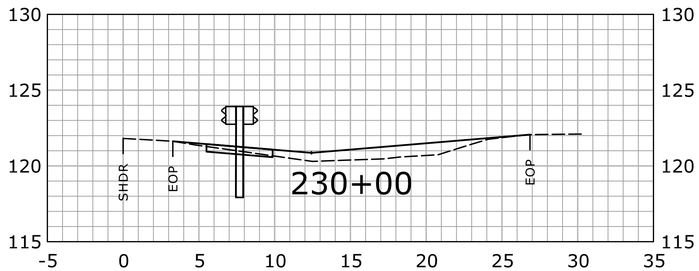
TOWN: NORWICH AND MONTVILLE

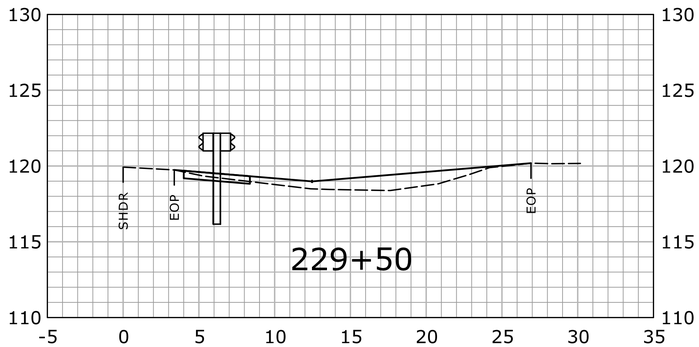
DRAWING TITLE: CROSS SECTIONS

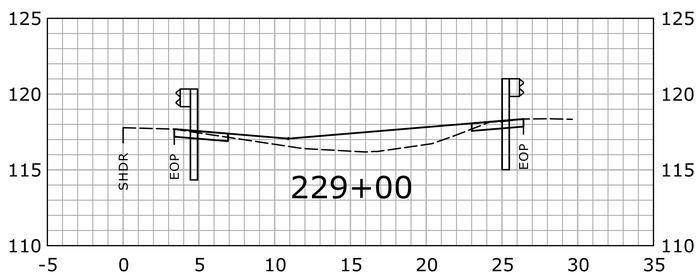
PROJECT NO. 0103-0272

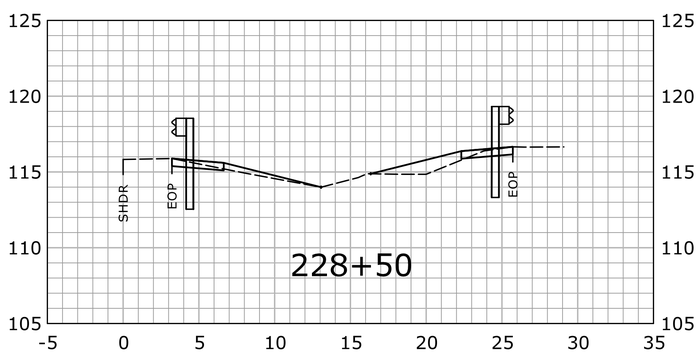
DRAWING NO. XSC-22

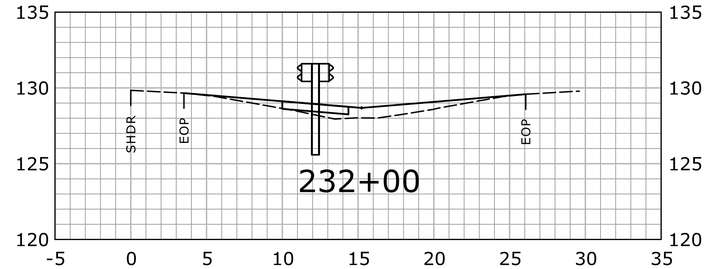
SHEET NO. 03.56

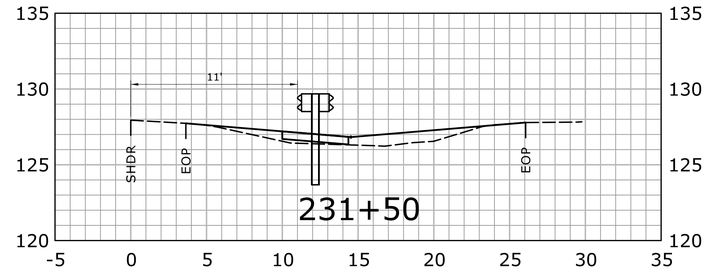


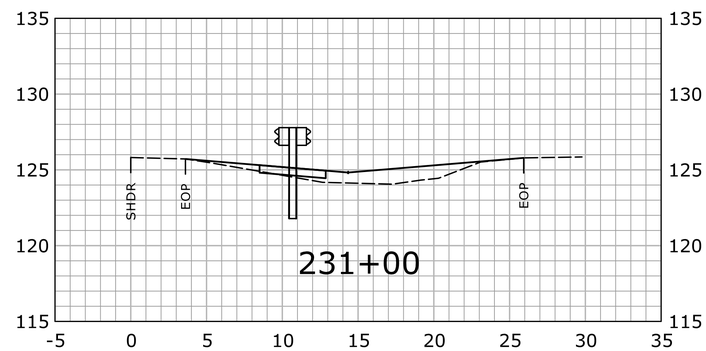


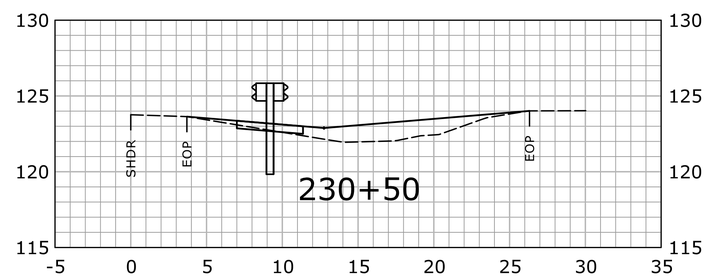


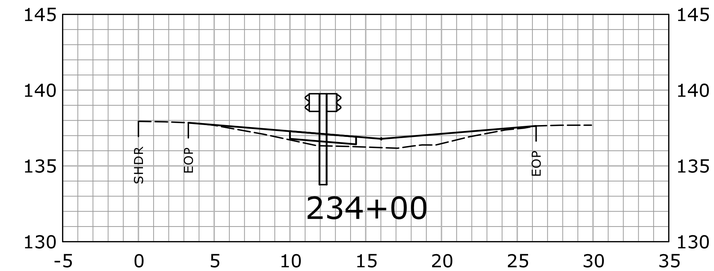


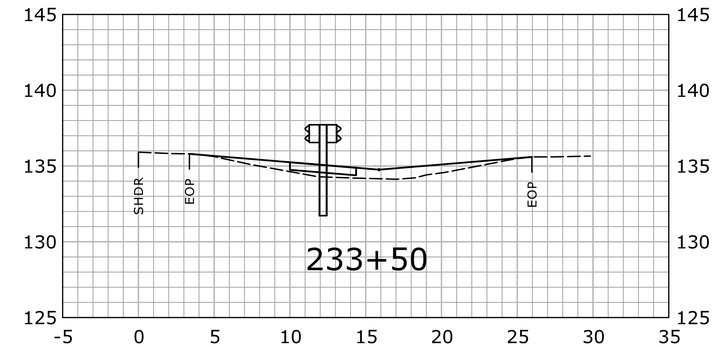


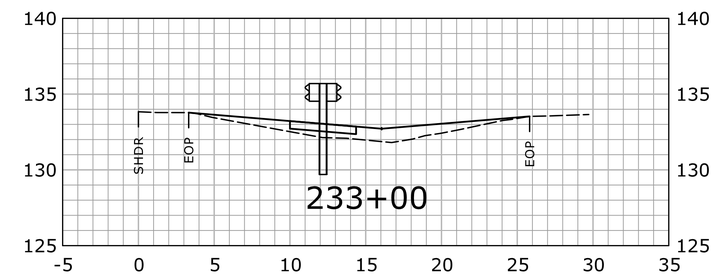


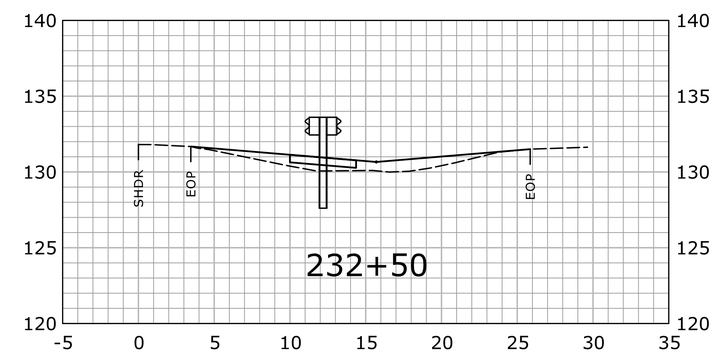












STA.228+50 TO STA.234+00

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: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
Matthew Nagle

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

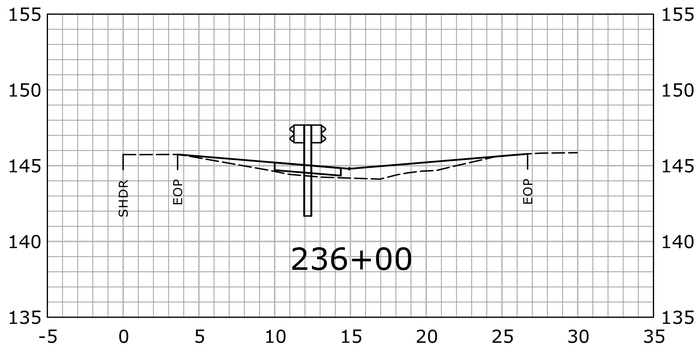
TOWN:
NORWICH AND MONTVILLE

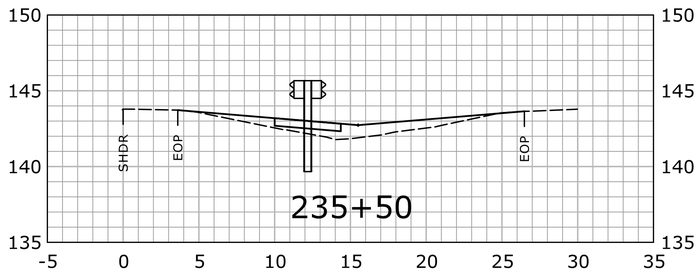
DRAWING TITLE:
CROSS SECTIONS

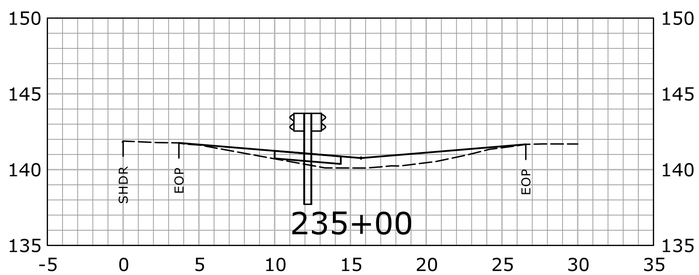
PROJECT NO. 0103-0272

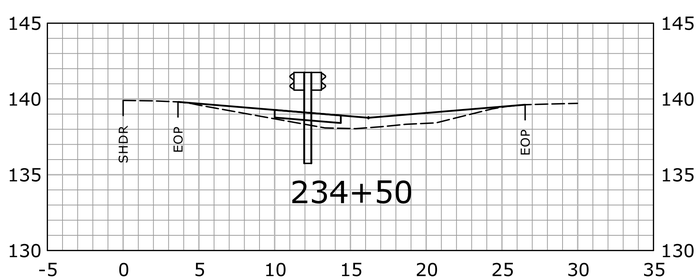
DRAWING NO. XSC-23

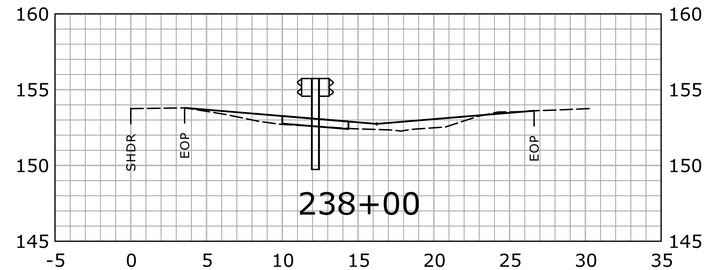
SHEET NO. 03.57

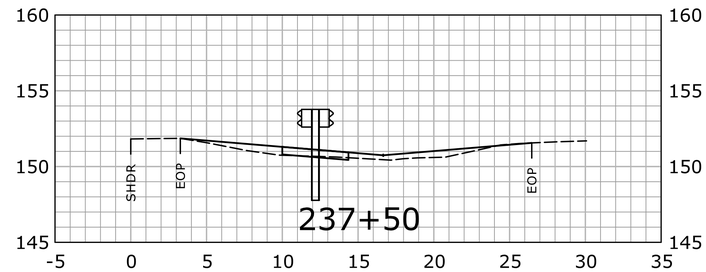


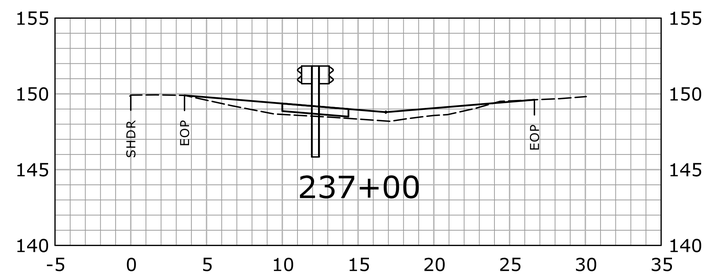


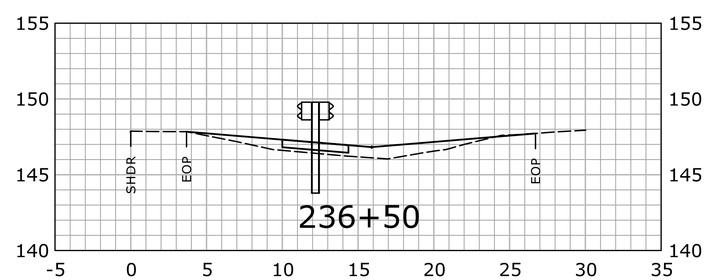


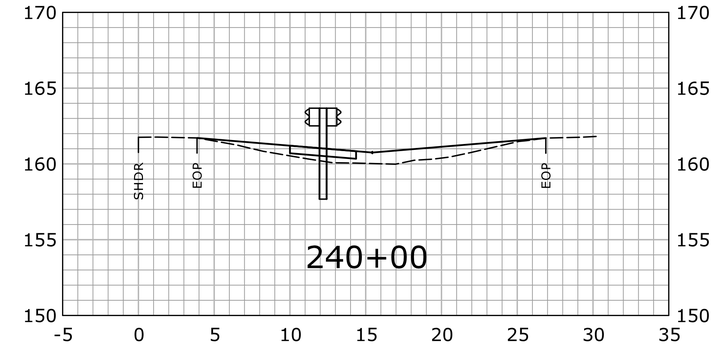


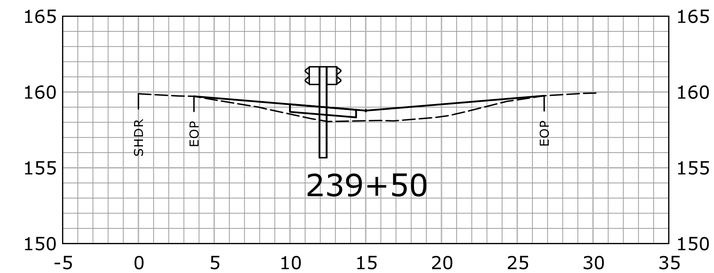


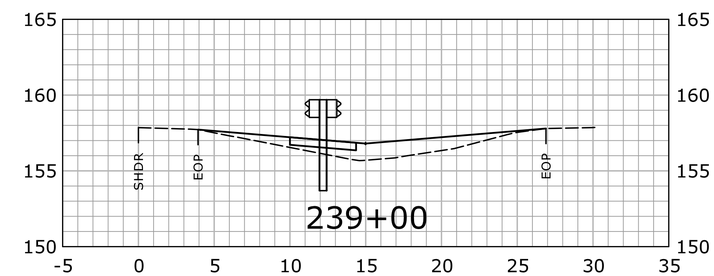


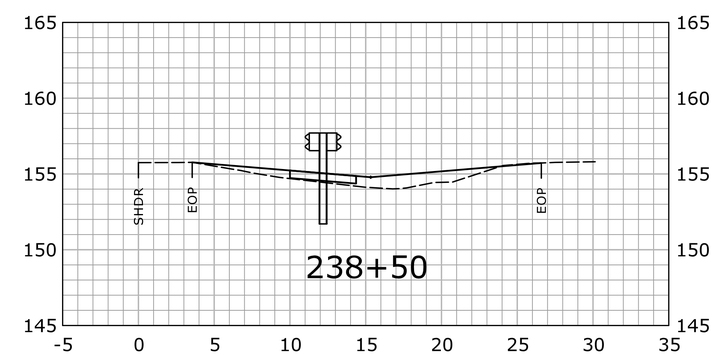












STA.234+50 TO STA.240+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Matthew Paul

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

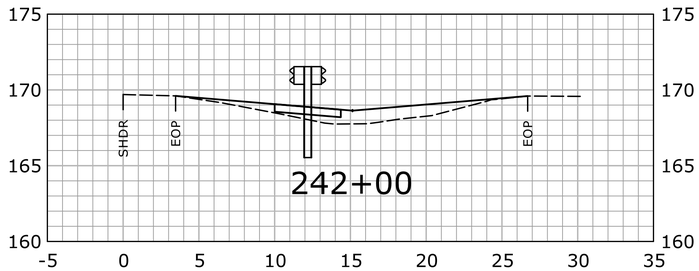
TOWN: NORWICH AND MONTVILLE

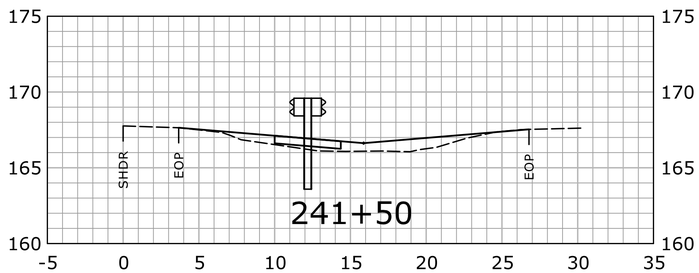
DRAWING TITLE: CROSS SECTIONS

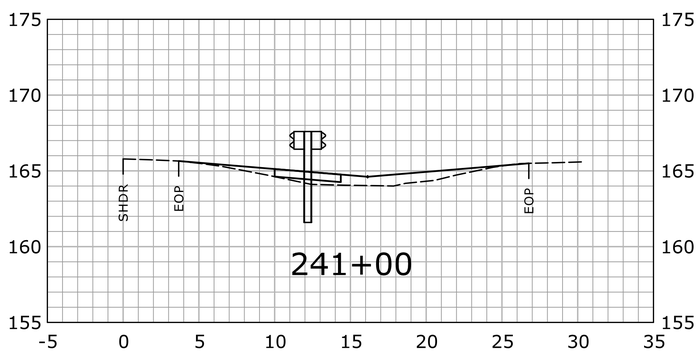
PROJECT NO. 0103-0272

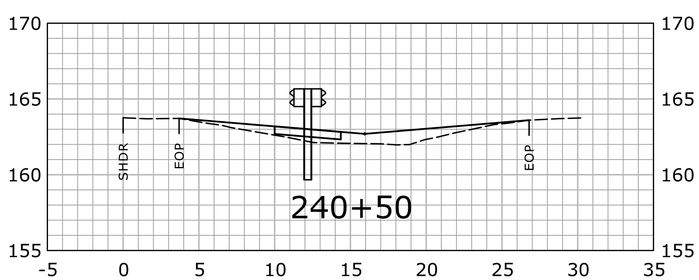
DRAWING NO. XSC-24

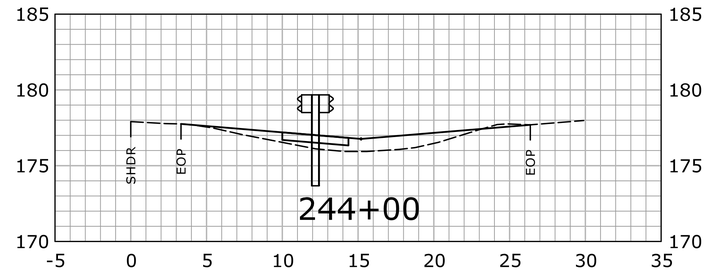
SHEET NO. 03.58

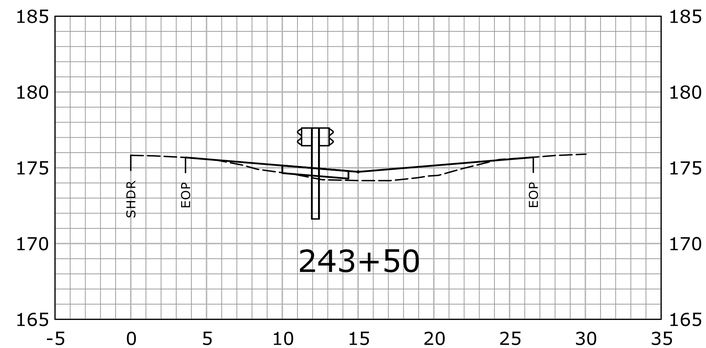


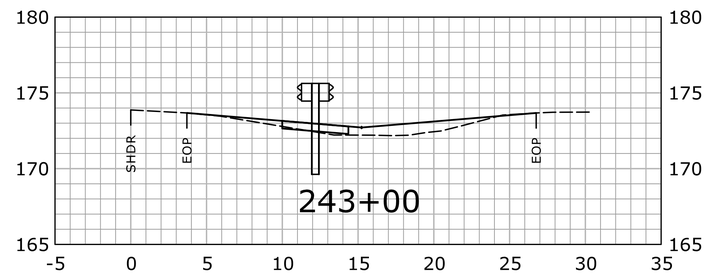


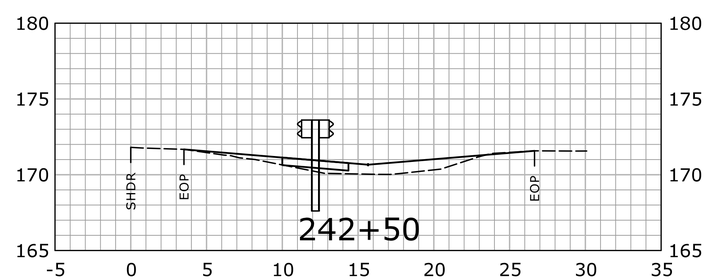


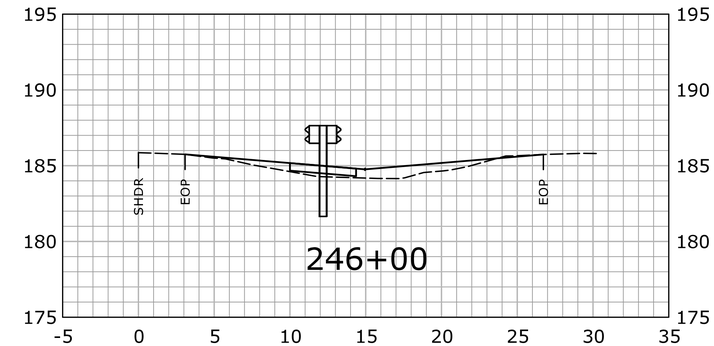


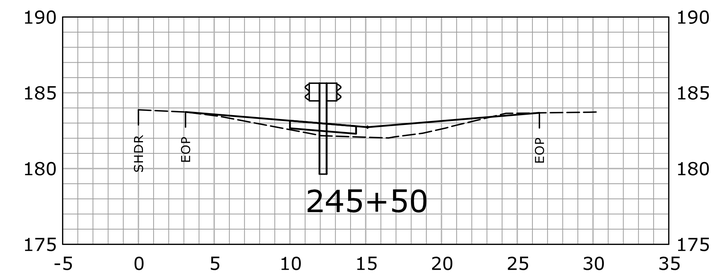


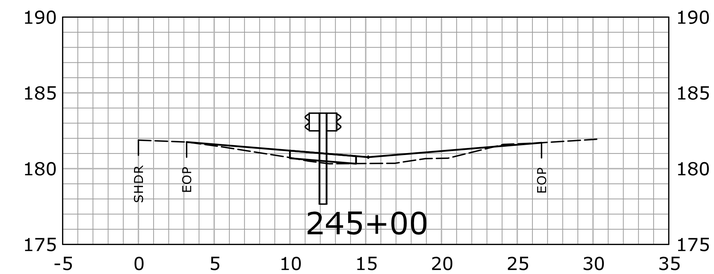


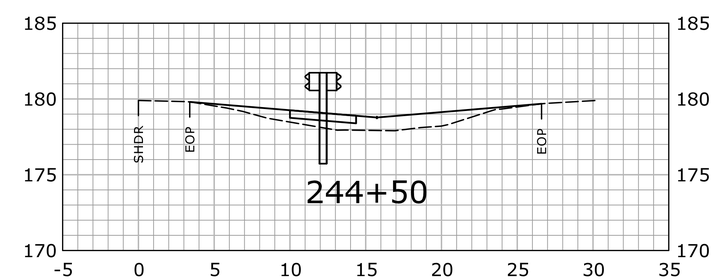












STA.240+50 TO STA.246+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Matthew Paul

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

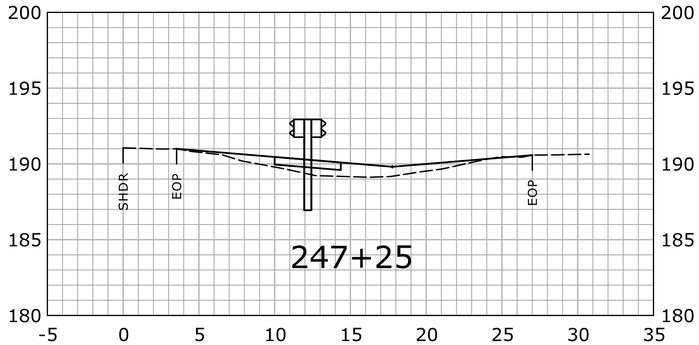
TOWN: NORWICH AND MONTVILLE

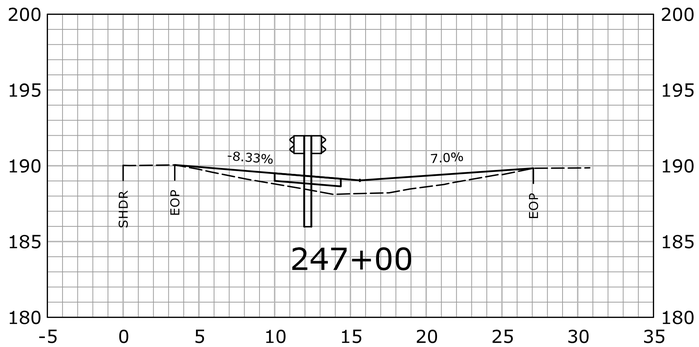
DRAWING TITLE: CROSS SECTIONS

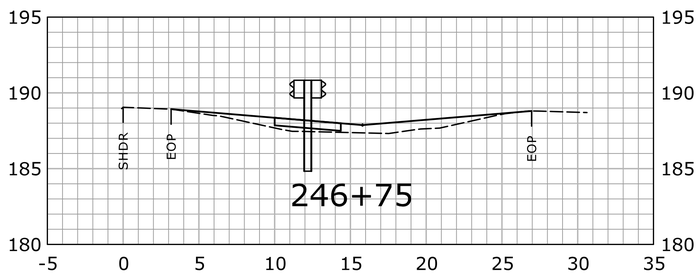
PROJECT NO. 0103-0272

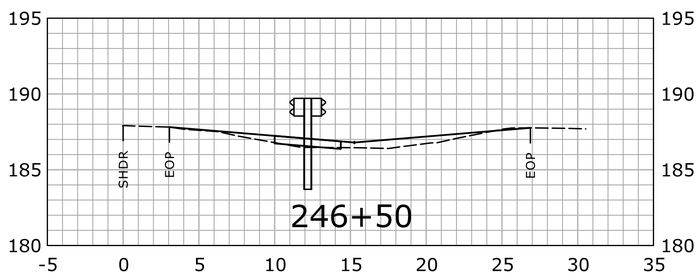
DRAWING NO. XSC-25

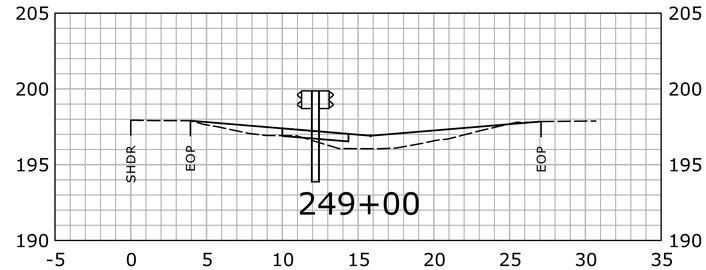
SHEET NO. 03.59

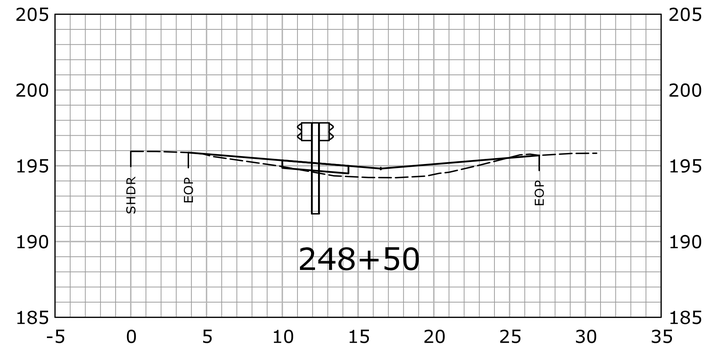


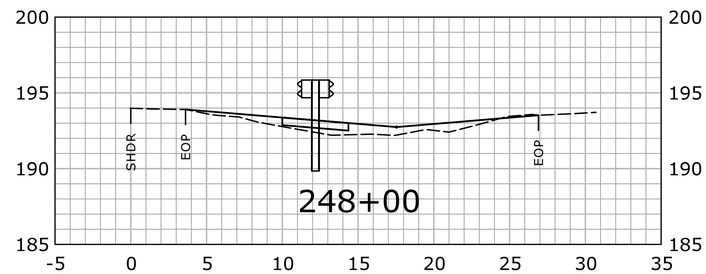


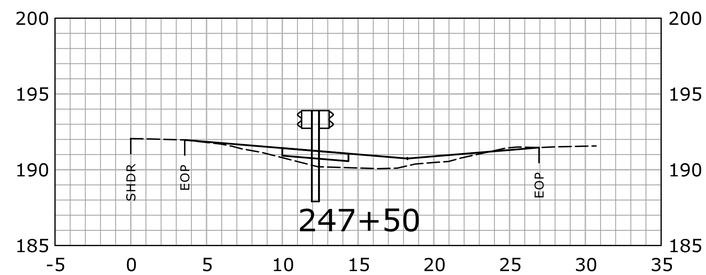


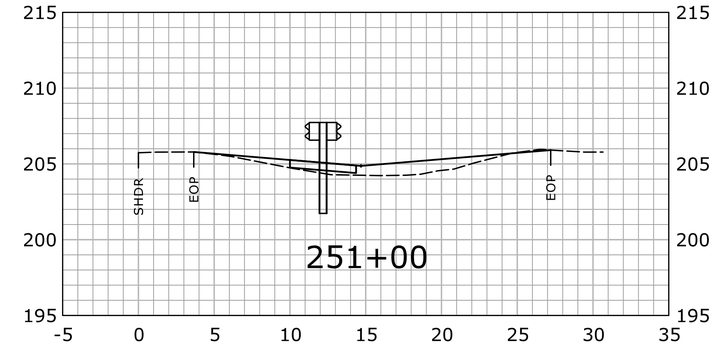


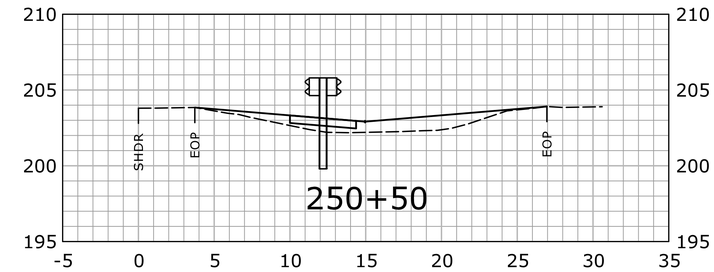


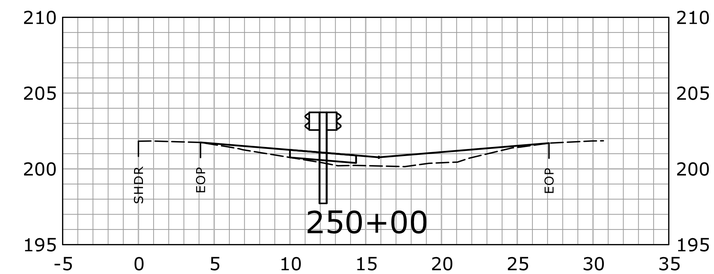


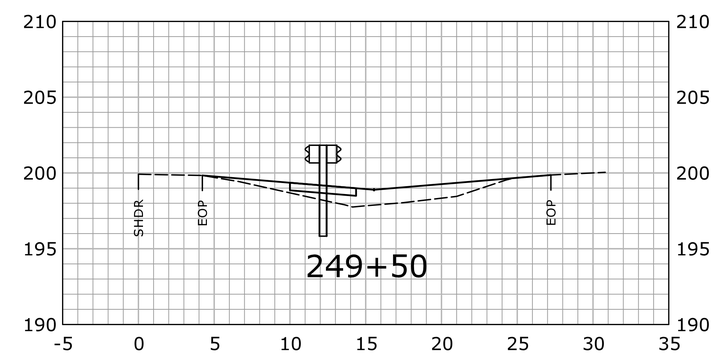












STA.246+50 TO STA.251+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Matthew Paul

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

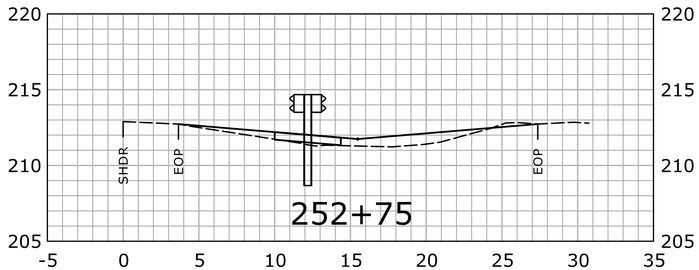
TOWN: NORWICH AND MONTVILLE

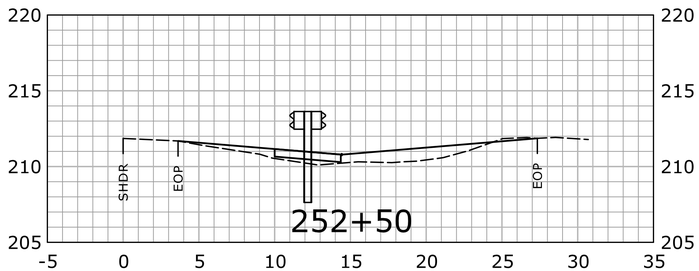
DRAWING TITLE: CROSS SECTIONS

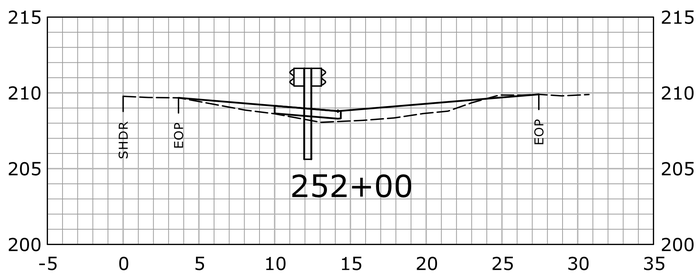
PROJECT NO. 0103-0272

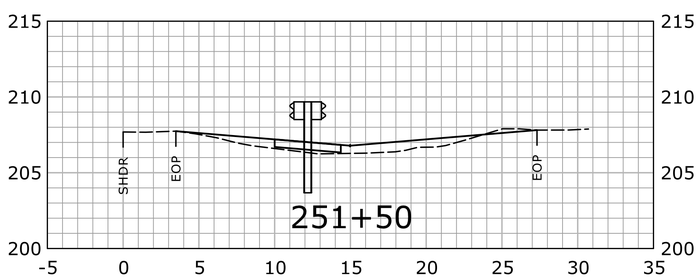
DRAWING NO. XSC-26

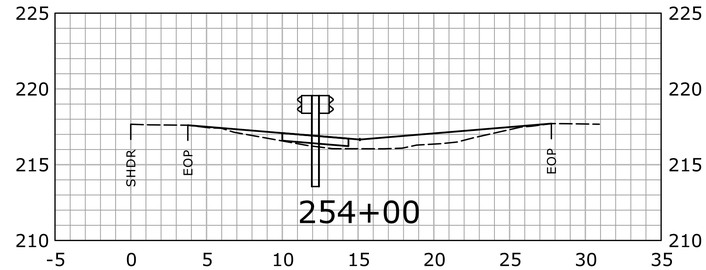
SHEET NO. 03.60

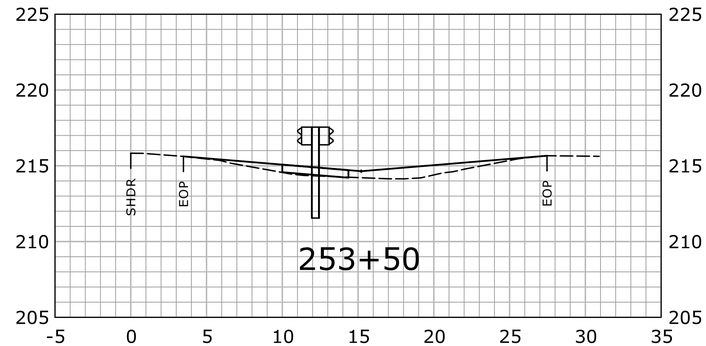


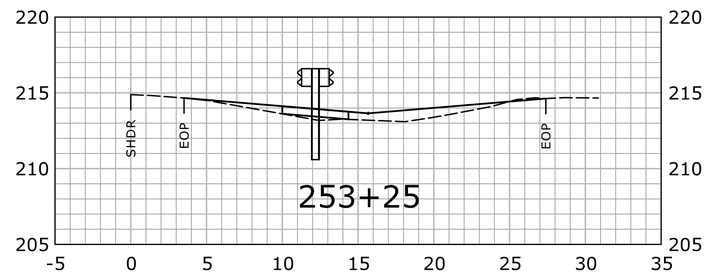


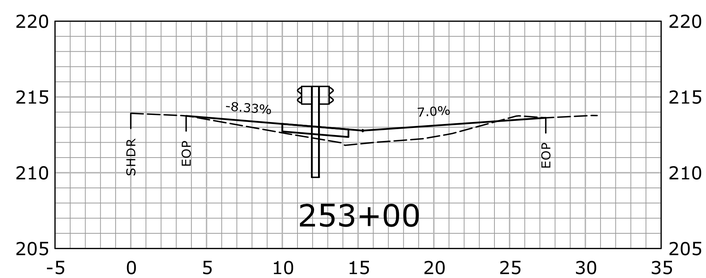


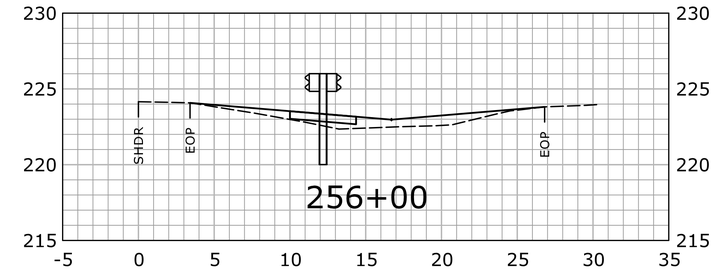


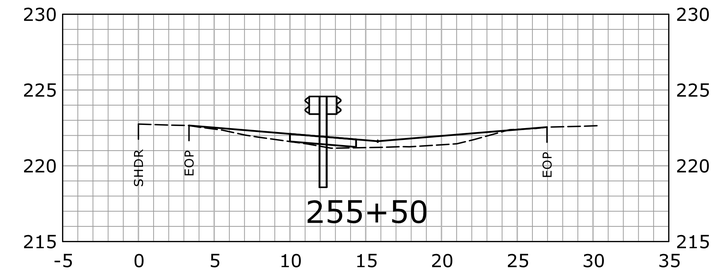


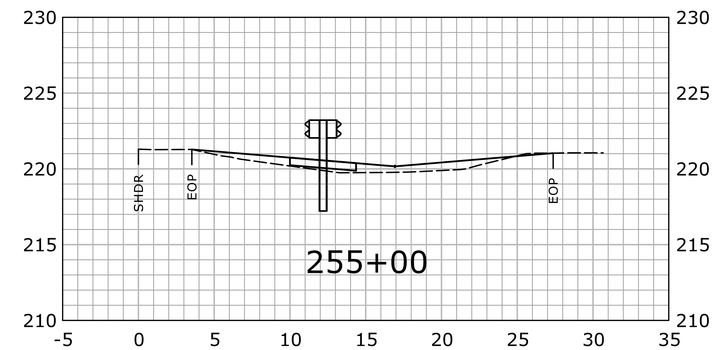


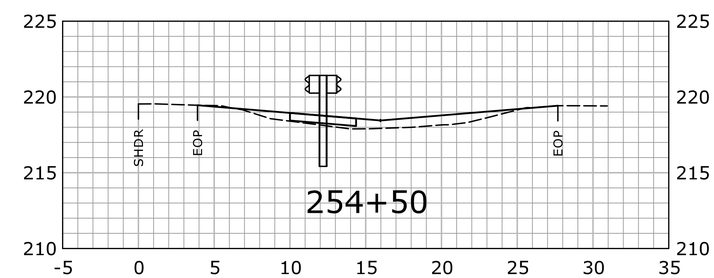












STA.251+50 TO STA.256+00

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: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Matthew Paul

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

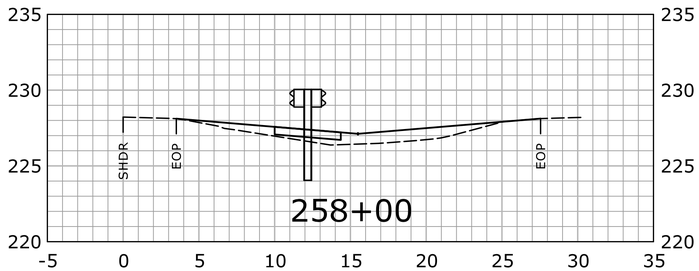
TOWN: NORWICH AND MONTVILLE

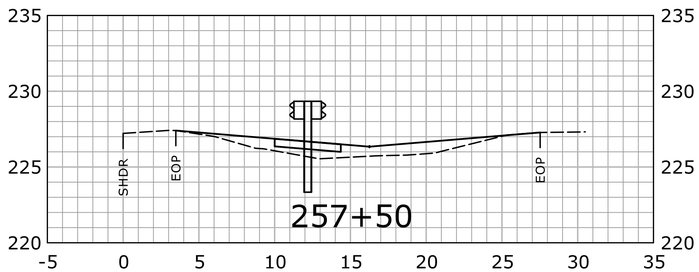
DRAWING TITLE: CROSS SECTIONS

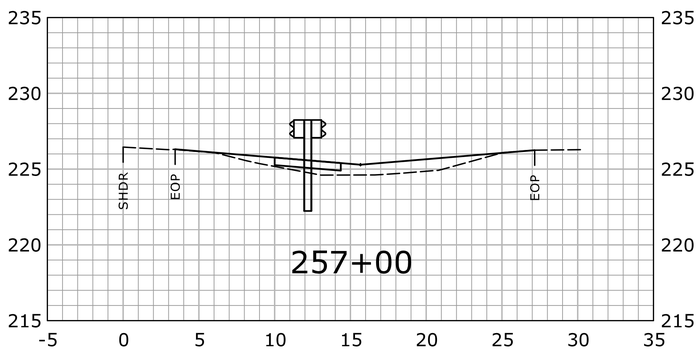
PROJECT NO. 0103-0272

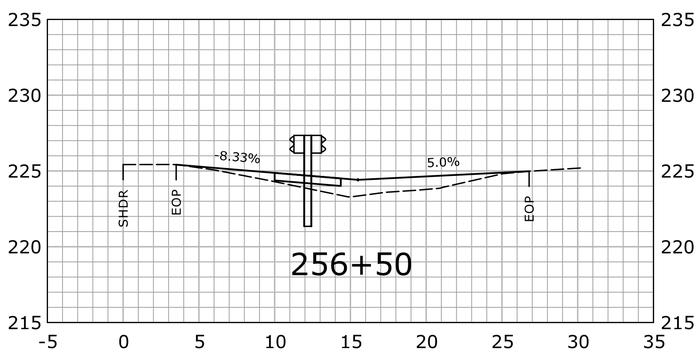
DRAWING NO. XSC-27

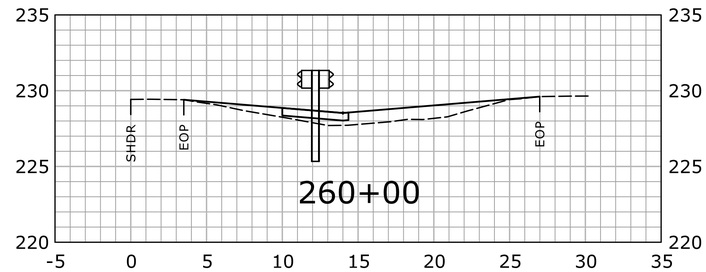
SHEET NO. 03.61

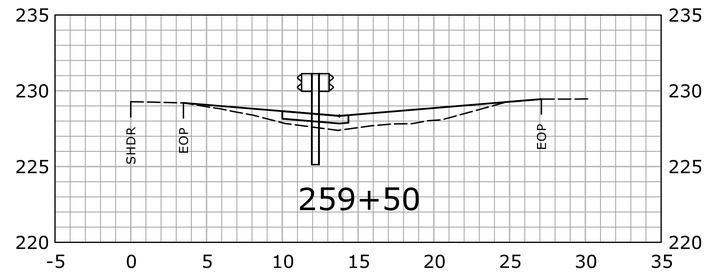


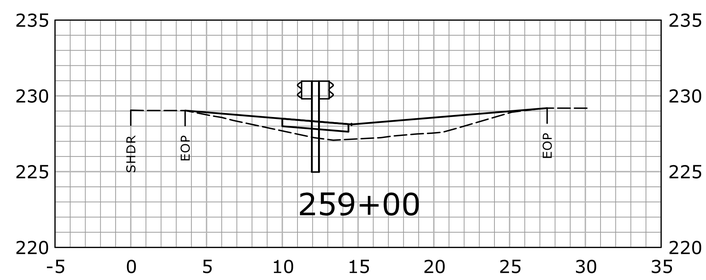


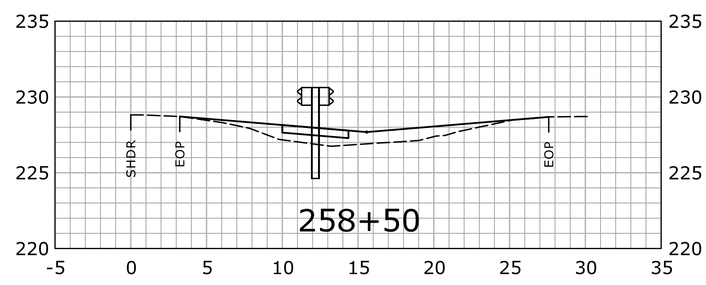


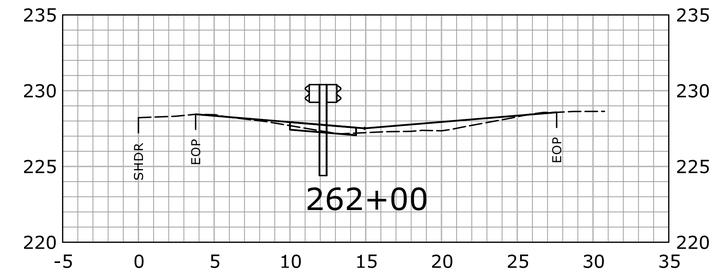


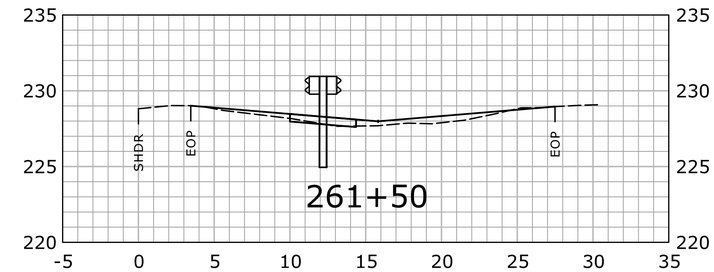


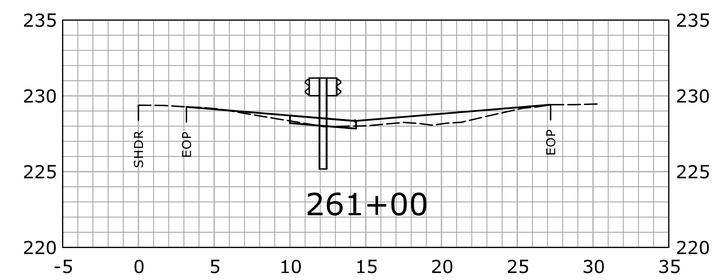


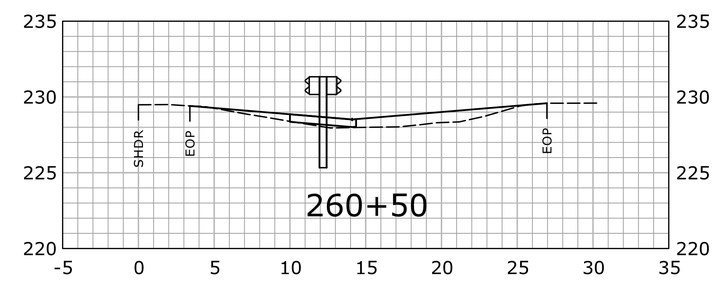












STA.256+50 TO STA.262+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN
CHECKED BY: JDA
SCALE IN FEET 0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

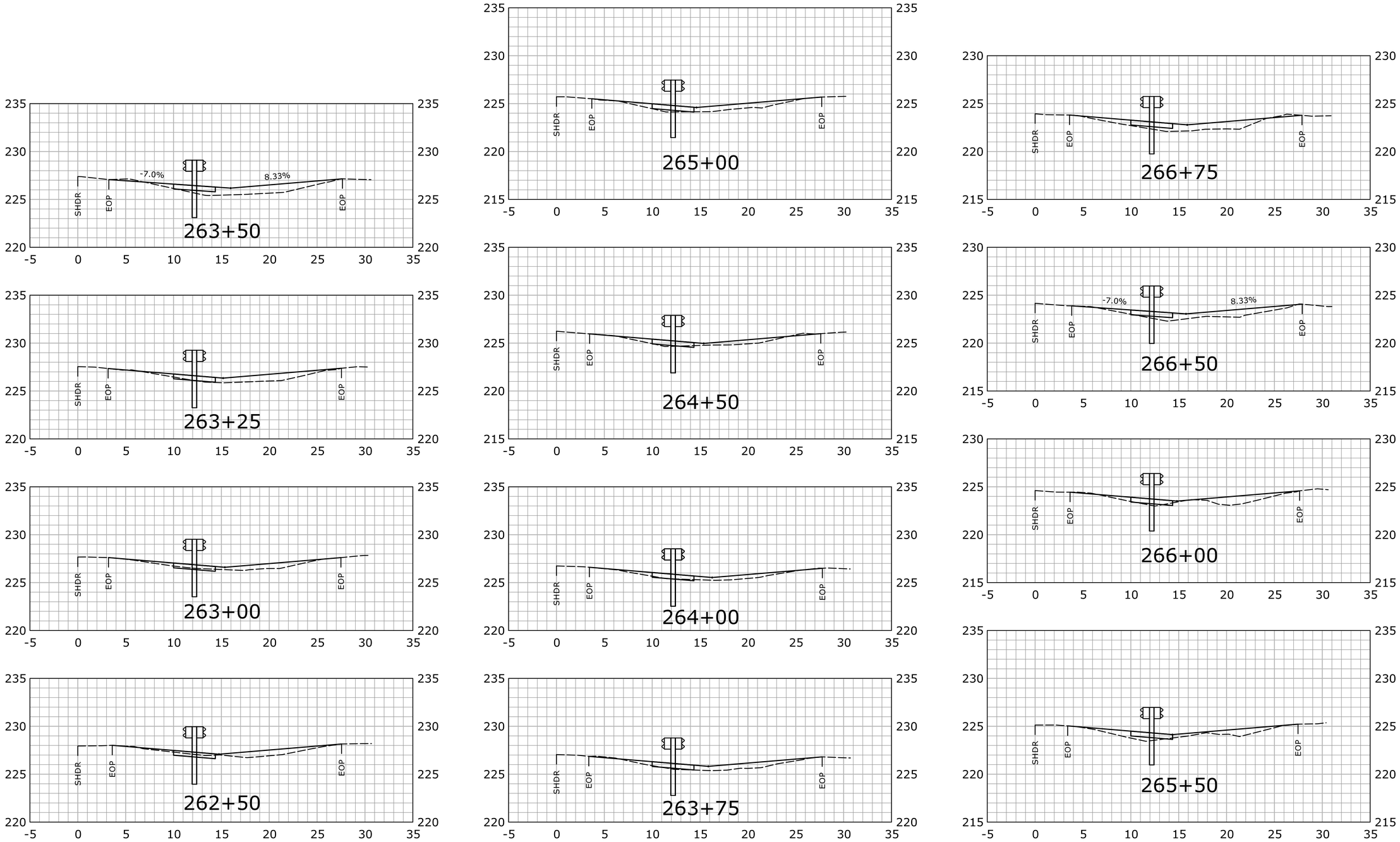
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
Matthew Peck

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN:
NORWICH AND MONTVILLE

DRAWING TITLE:
CROSS SECTIONS

PROJECT NO. 0103-0272
DRAWING NO. XSC-28
SHEET NO. 03.62



STA.262+50 TO STA.266+75

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Matthew Paul

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN:

NORWICH AND MONTVILLE

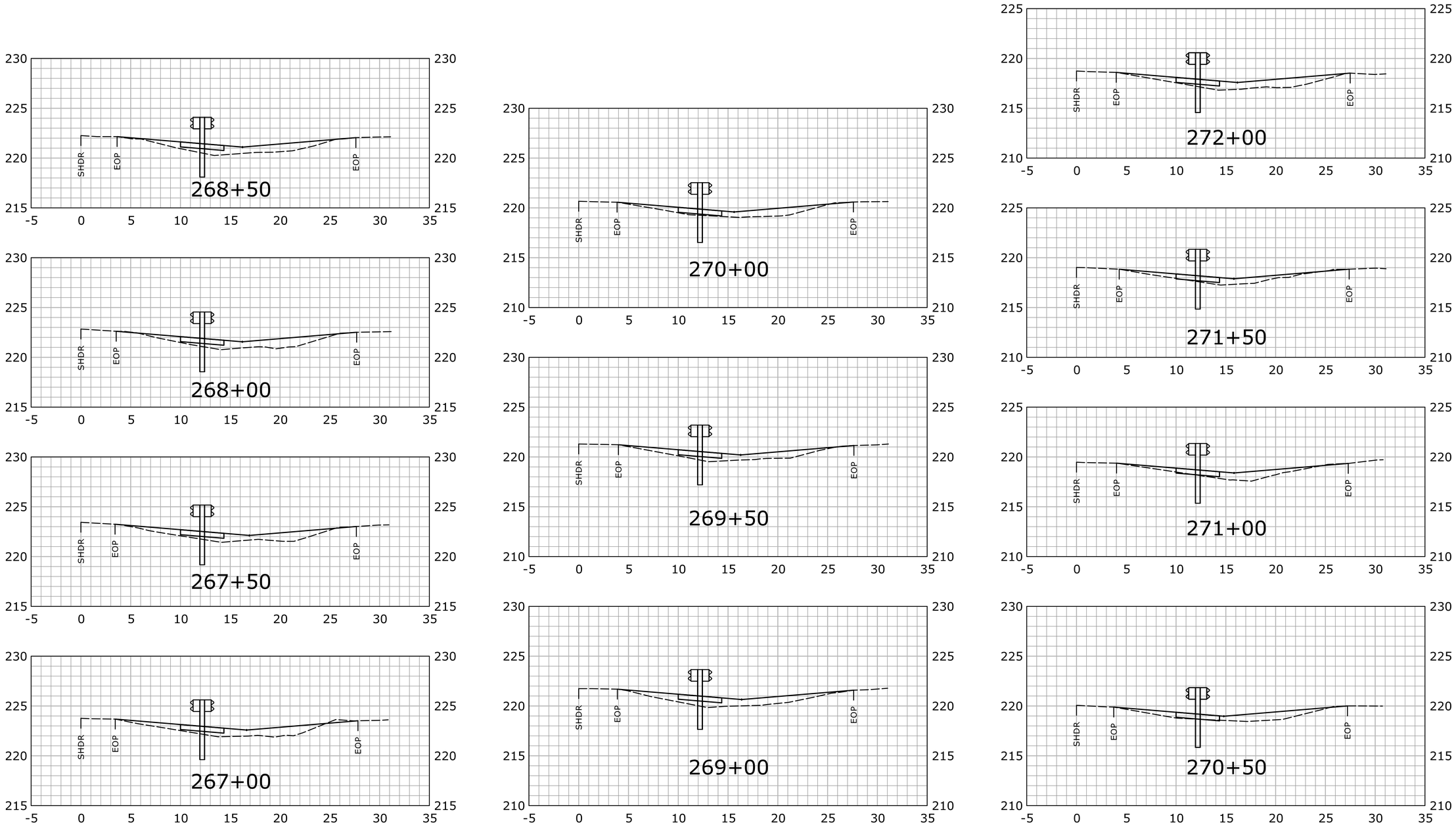
DRAWING TITLE:

CROSS SECTIONS

PROJECT NO. 0103-0272

DRAWING NO. XSC-29

SHEET NO. 03.63



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
Matthew Paul

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

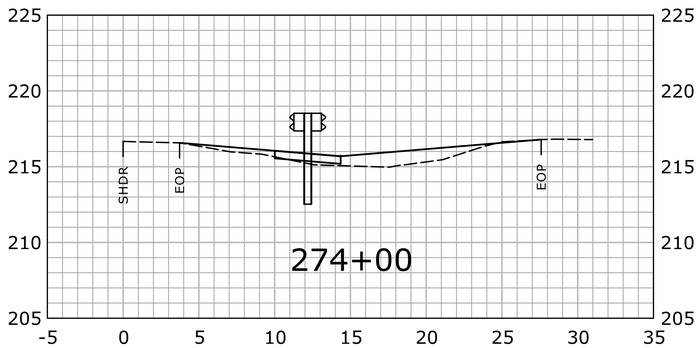
TOWN:
NORWICH AND MONTVILLE

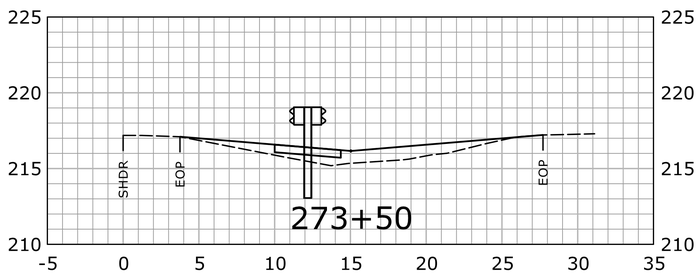
DRAWING TITLE:
CROSS SECTIONS

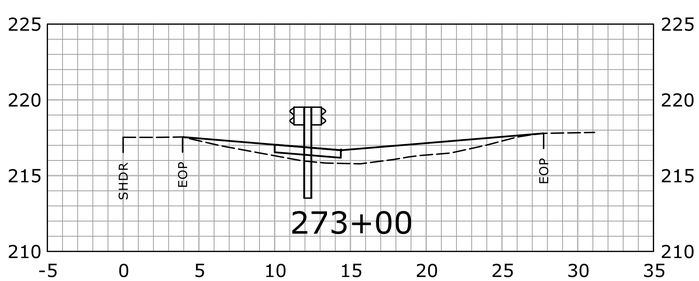
PROJECT NO. 0103-0272

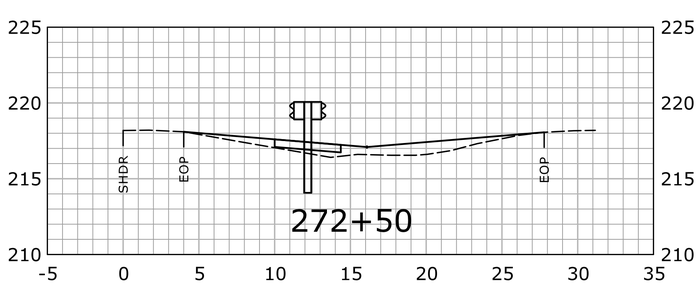
DRAWING NO. XSC-30

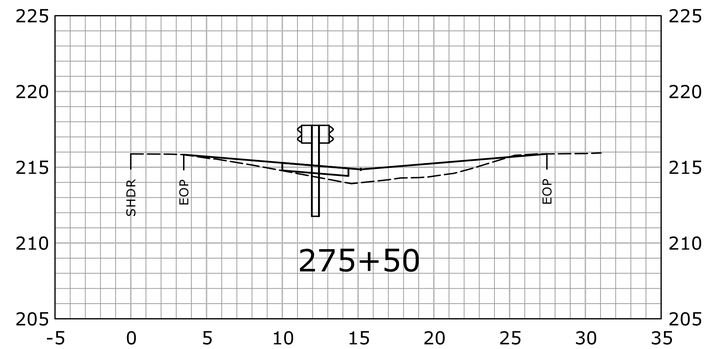
SHEET NO. 03.64

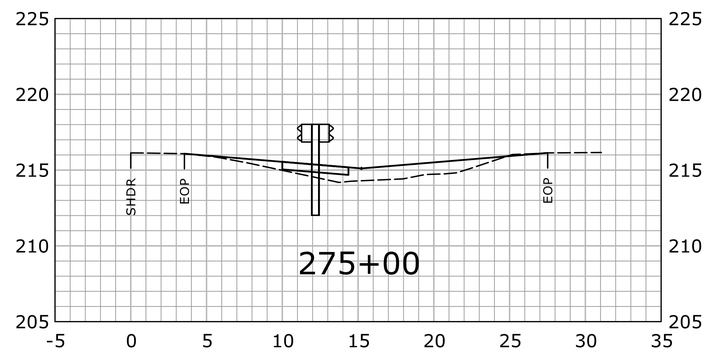


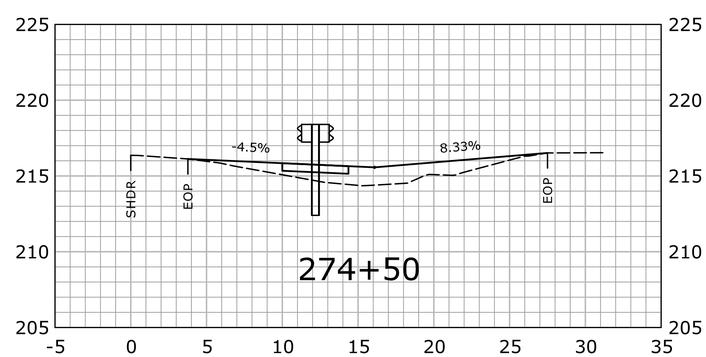


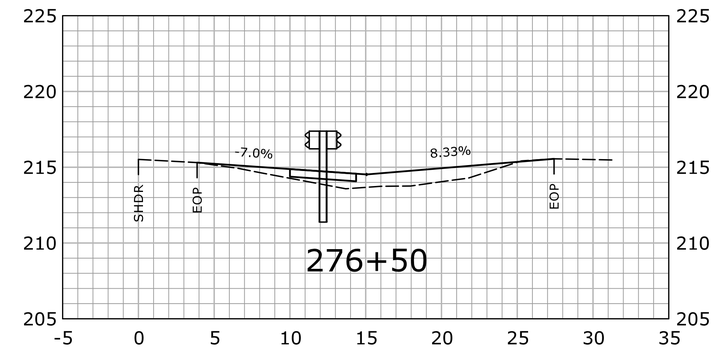


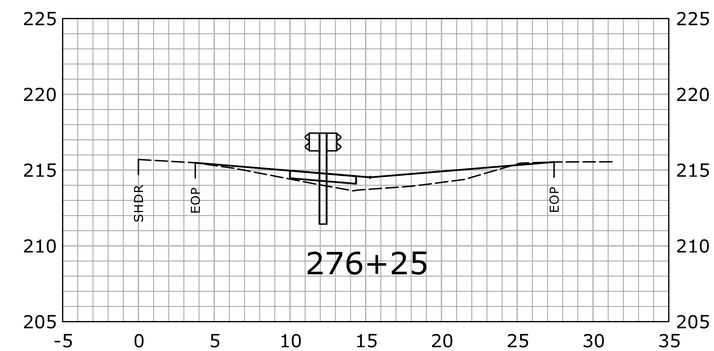


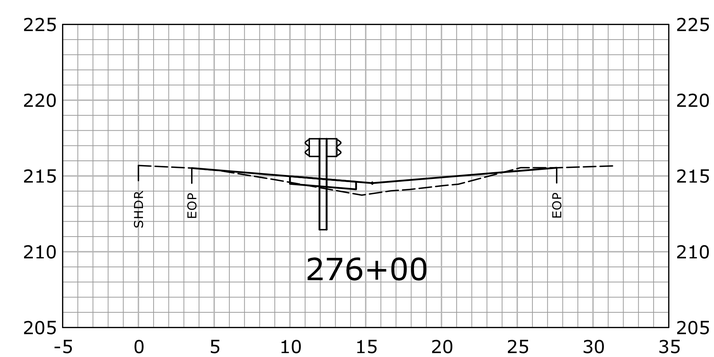












STA.272+50 TO STA.276+50

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Matthew Vail

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

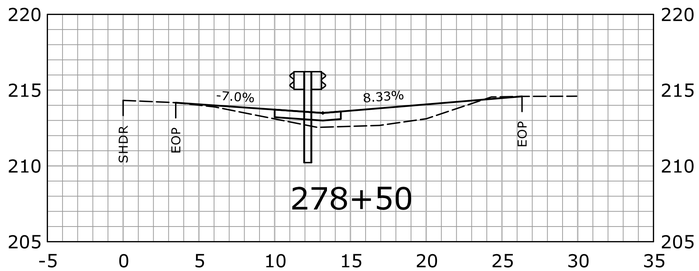
TOWN: NORWICH AND MONTVILLE

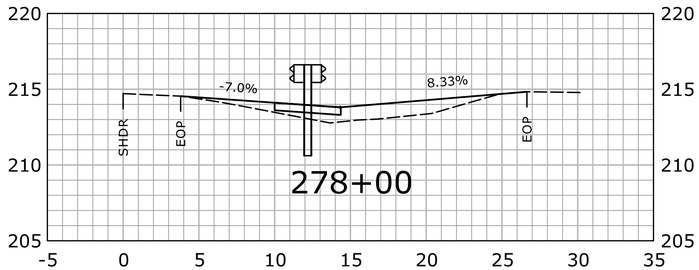
DRAWING TITLE: CROSS SECTIONS

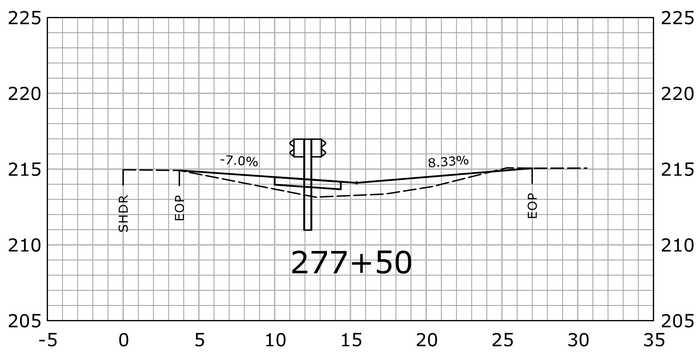
PROJECT NO. 0103-0272

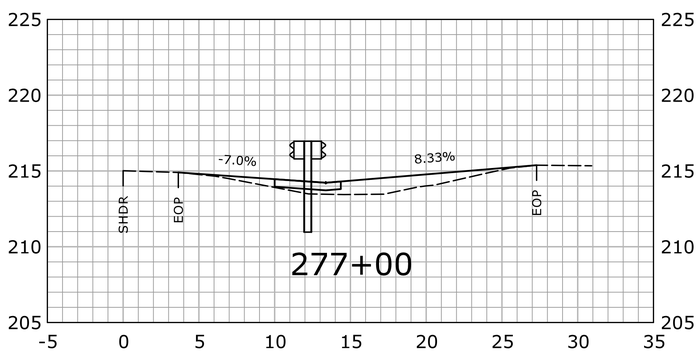
DRAWING NO. XSC-31

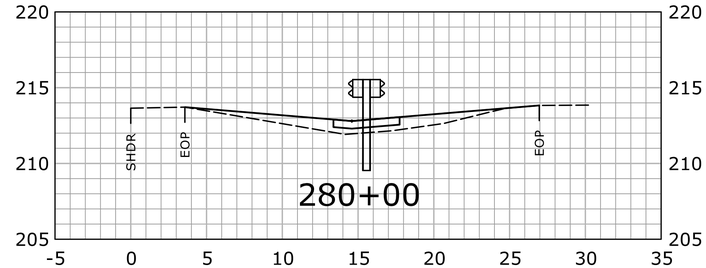
SHEET NO. 03.65

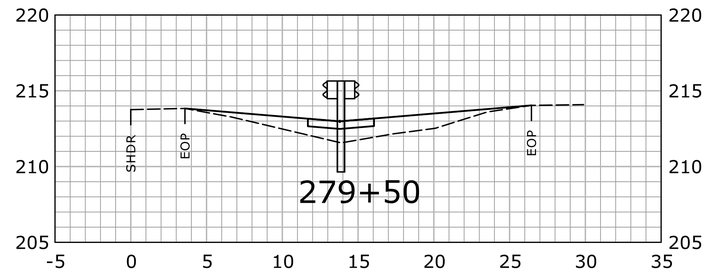


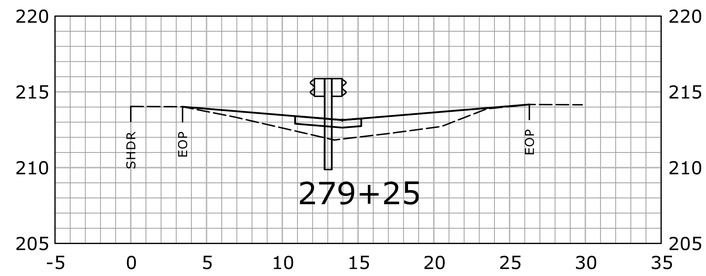


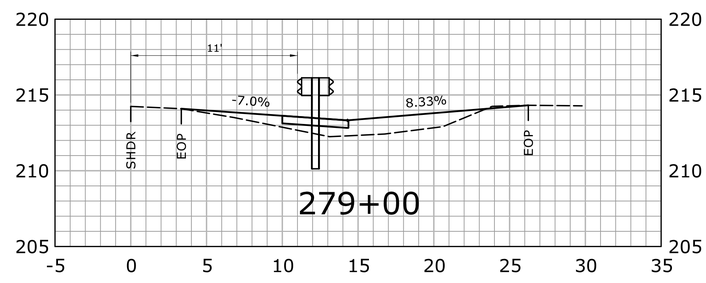


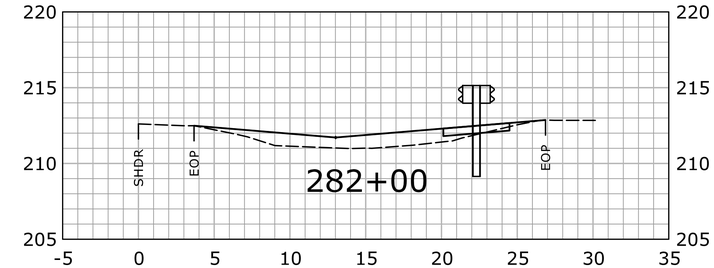


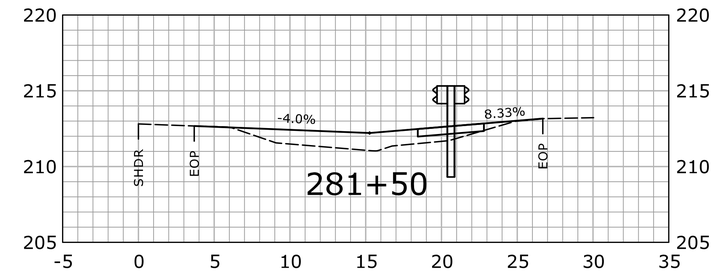


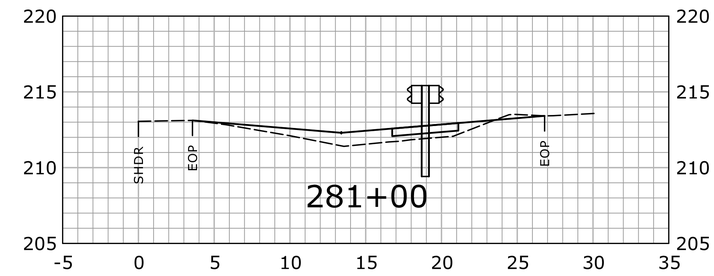


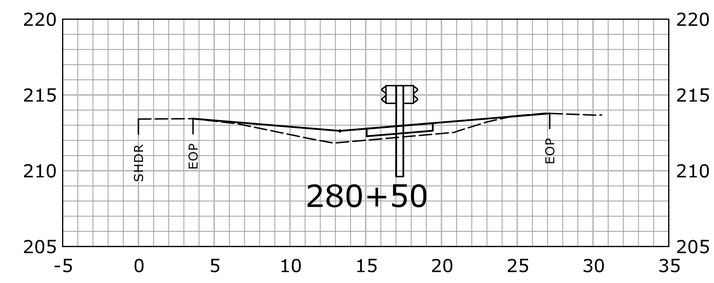












STA.277+00 TO STA.282+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Matthew Peck

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

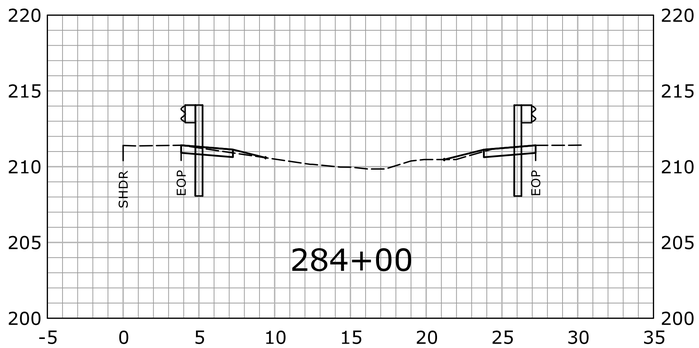
TOWN: **NORWICH AND MONTVILLE**

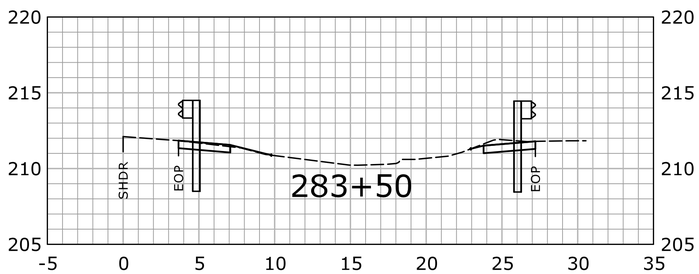
DRAWING TITLE: **CROSS SECTIONS**

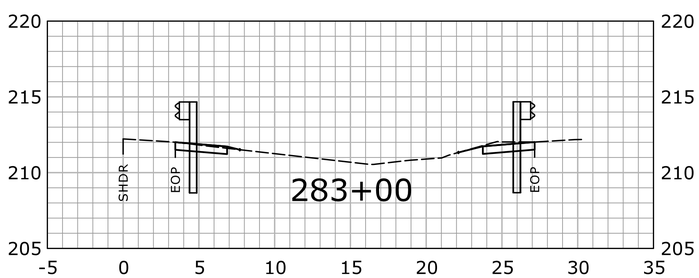
PROJECT NO. **0103-0272**

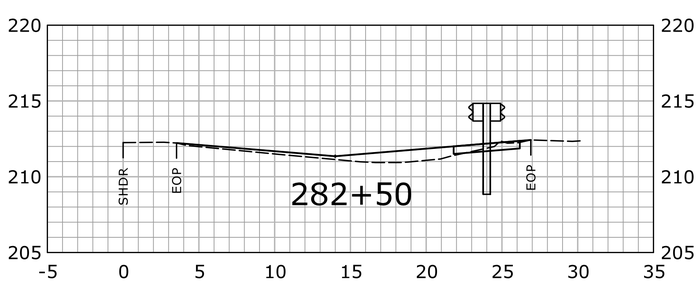
DRAWING NO. **XSC-32**

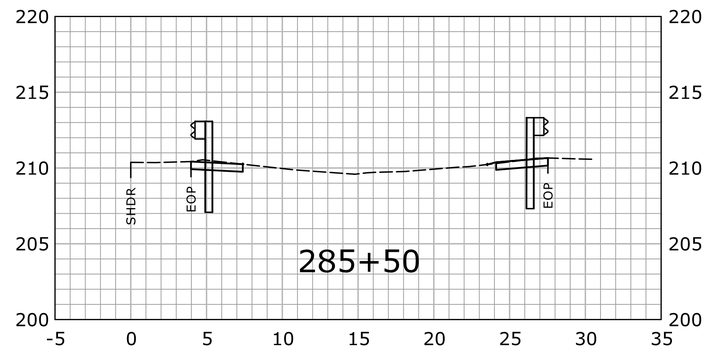
SHEET NO. **03.66**

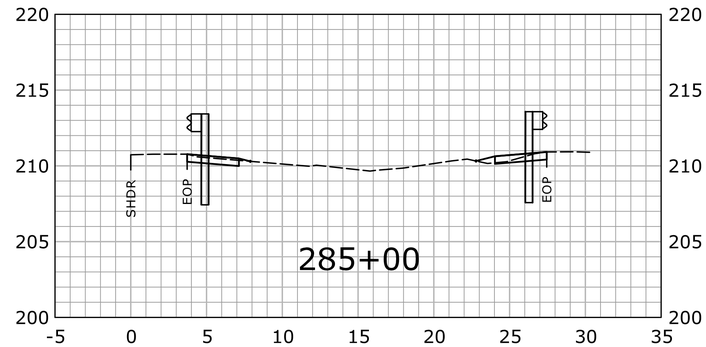


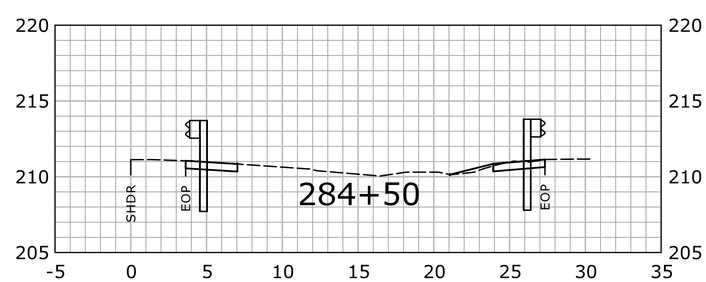


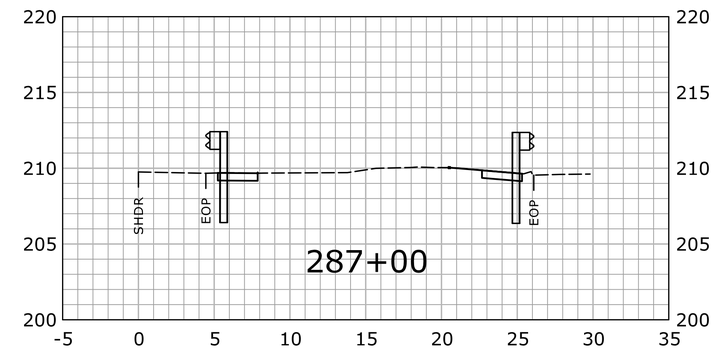


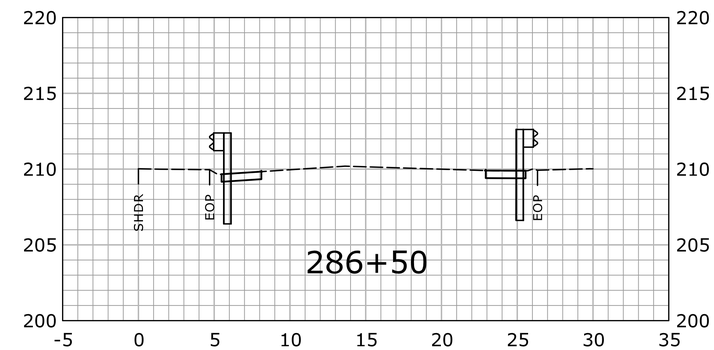


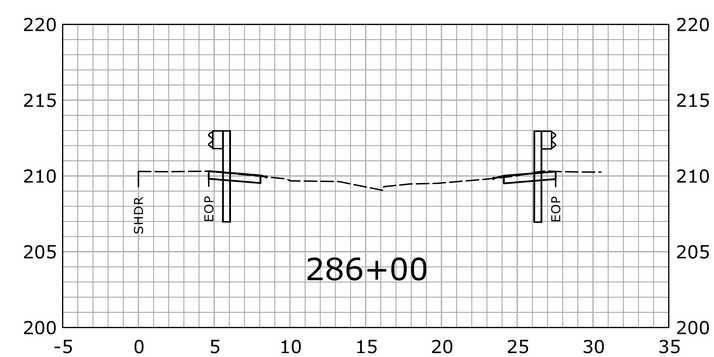












STA.282+50 TO STA.287+00

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: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Matthew Paul

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

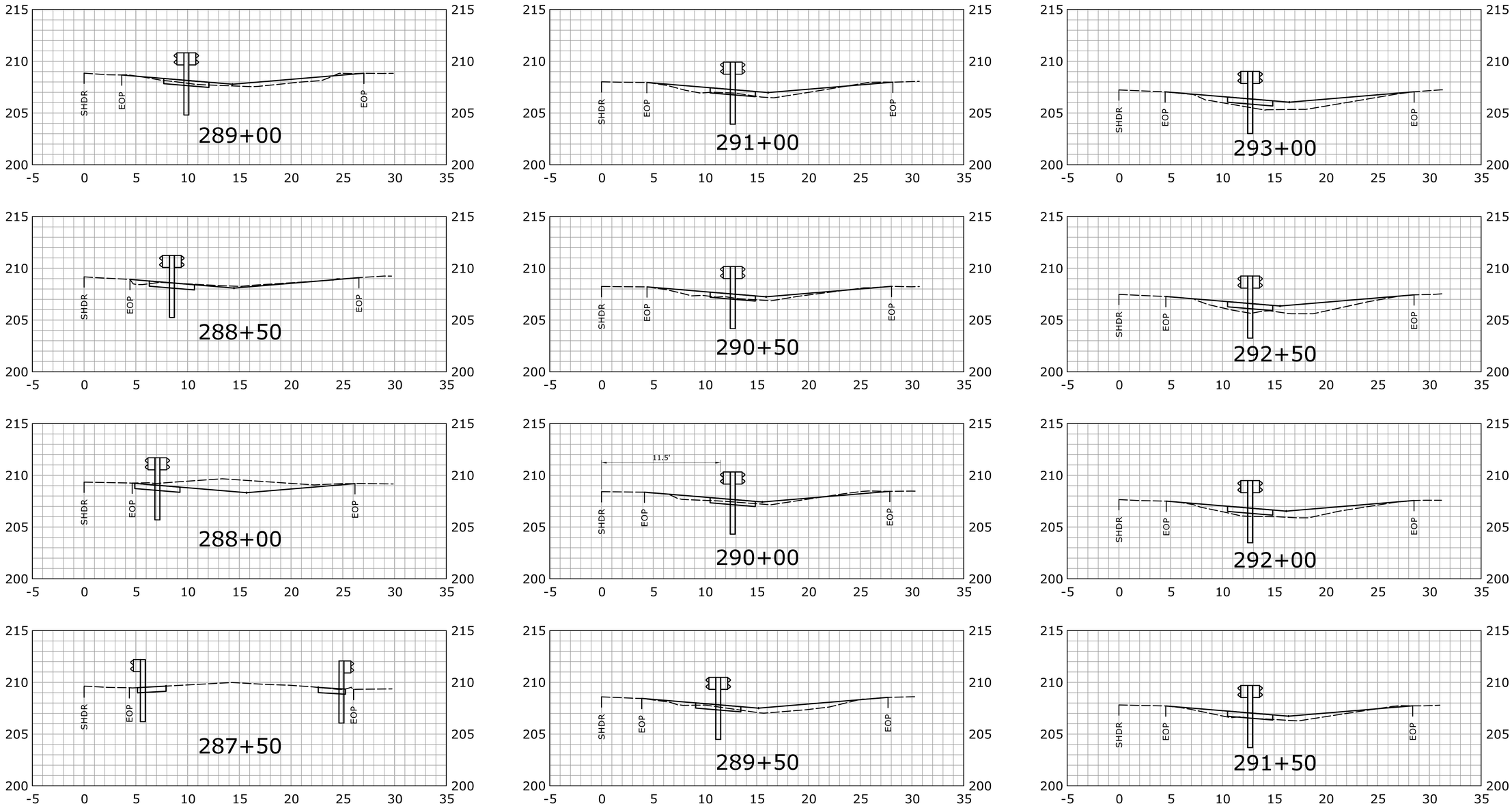
TOWN: NORWICH AND MONTVILLE

DRAWING TITLE: CROSS SECTIONS

PROJECT NO. 0103-0272

DRAWING NO. XSC-33

SHEET NO. 03.67



STA.287+50 TO STA.293+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Matthew Vail

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

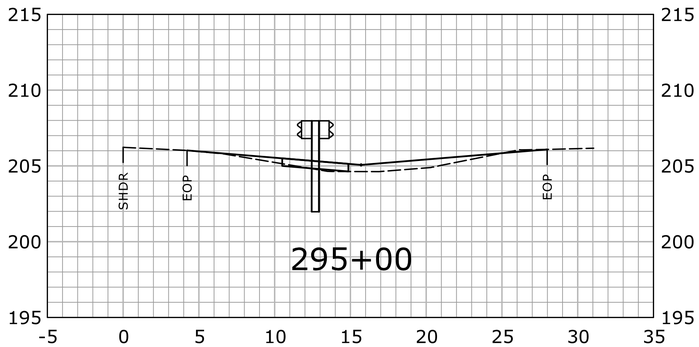
TOWN: NORWICH AND MONTVILLE

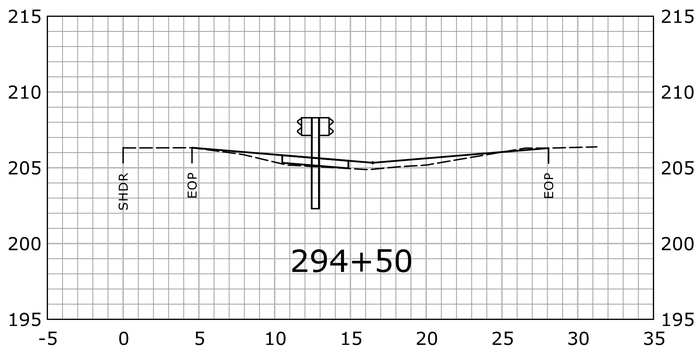
DRAWING TITLE: CROSS SECTIONS

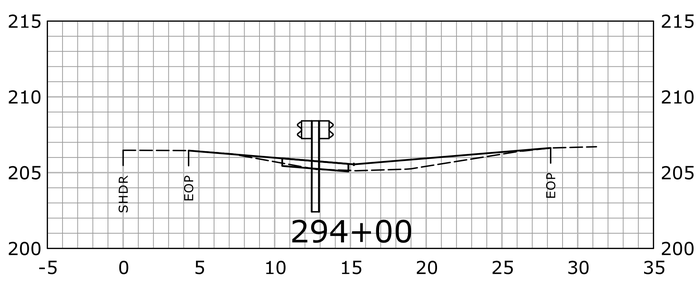
PROJECT NO. 0103-0272

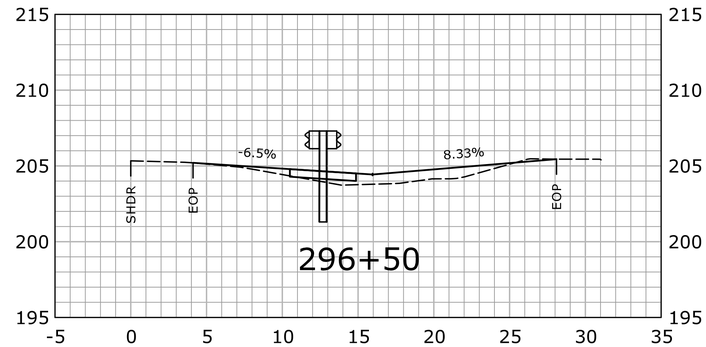
DRAWING NO. XSC-34

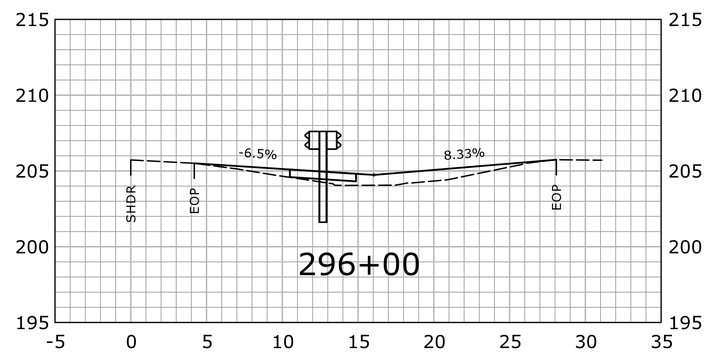
SHEET NO. 03.68

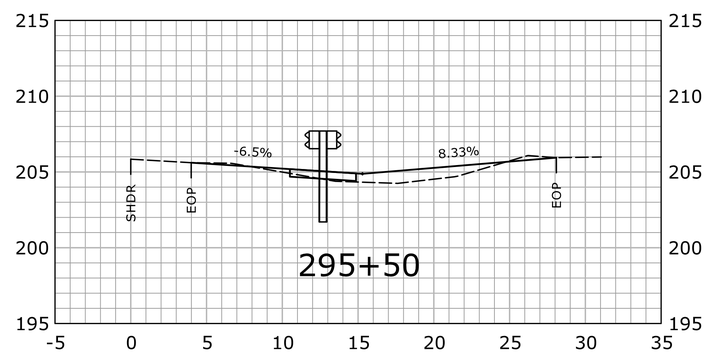


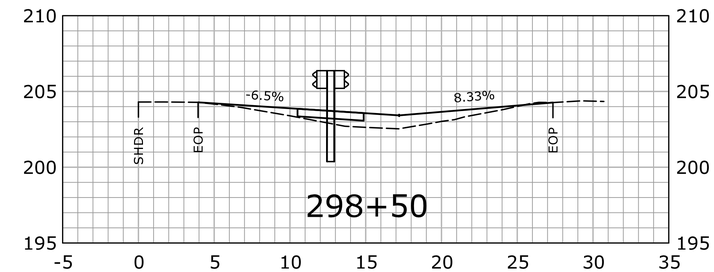


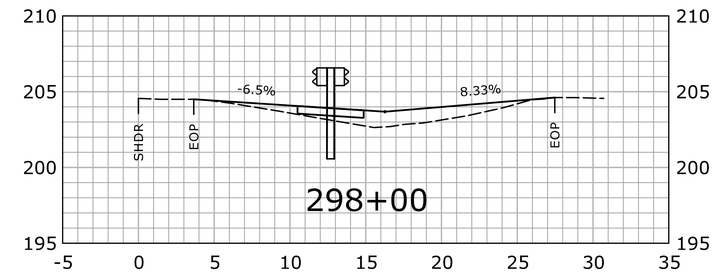


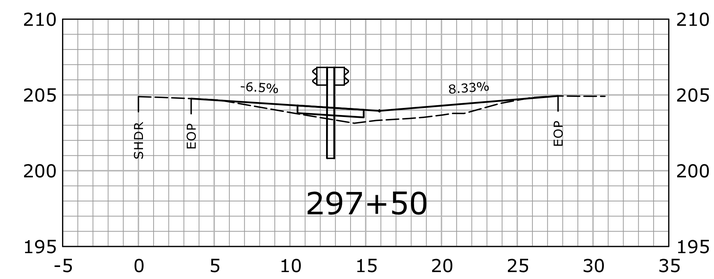


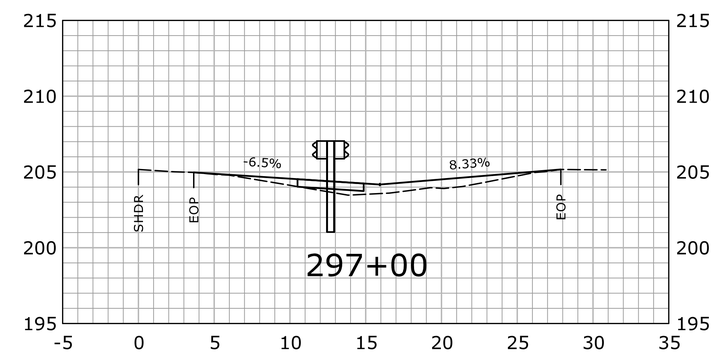












STA.293+50 TO STA.298+50

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN
CHECKED BY: JDA
SCALE IN FEET 0 5 10
SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

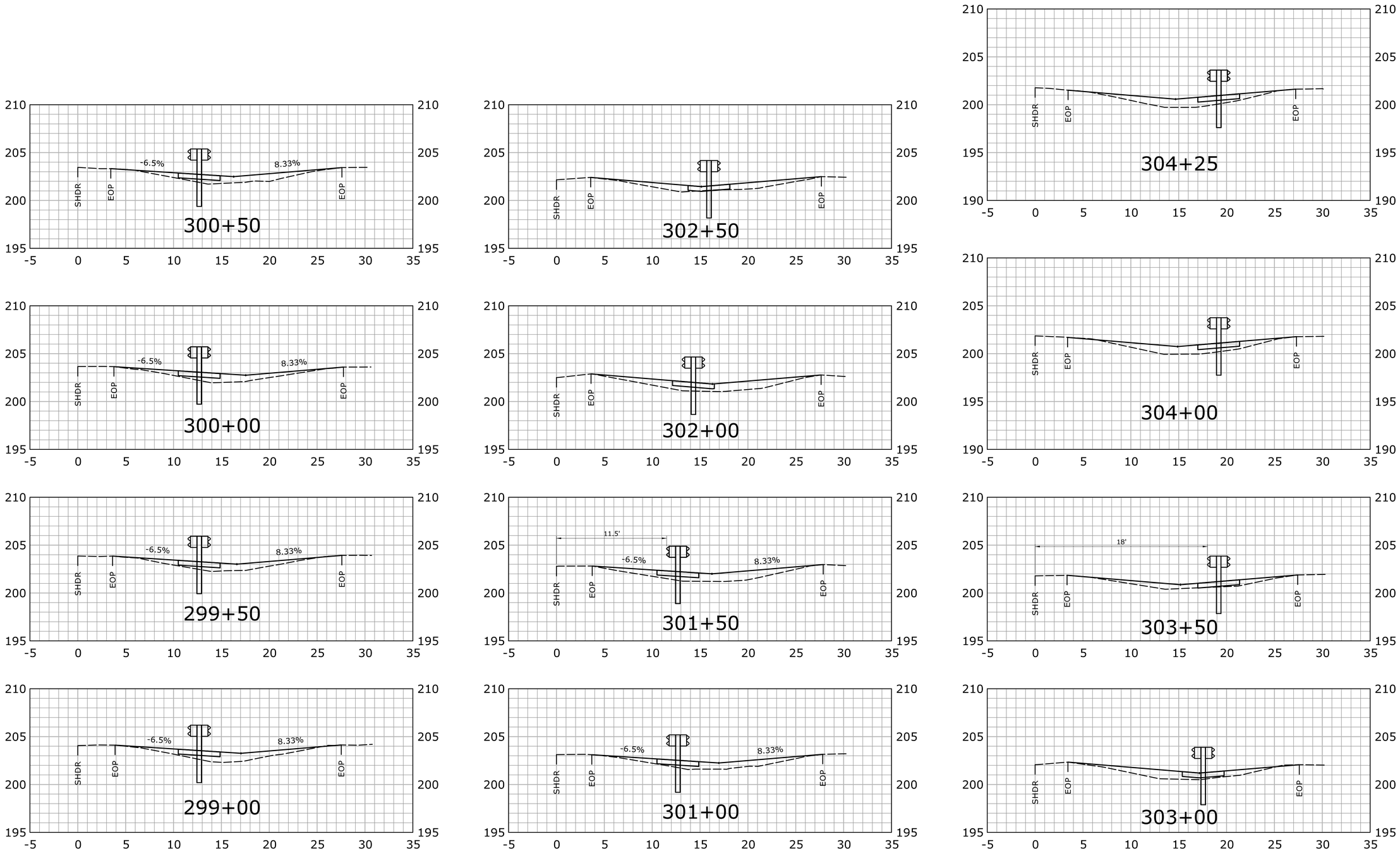
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY:
Matthew Vaiuf

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN:
NORWICH AND MONTVILLE

DRAWING TITLE:
CROSS SECTIONS

PROJECT NO. 0103-0272
DRAWING NO. XSC-35
SHEET NO. 03.69



STA.299+00 TO STA.304+25

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Matthew Vail

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

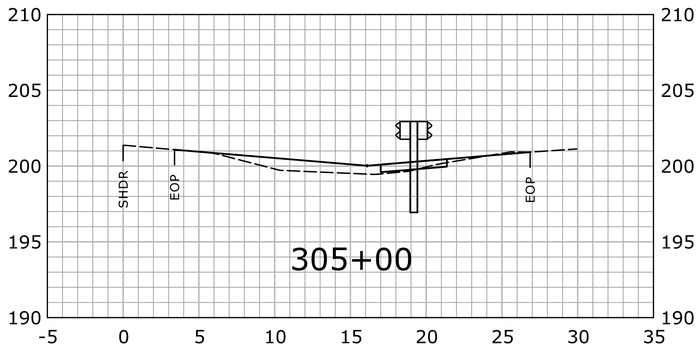
TOWN: NORWICH AND MONTVILLE

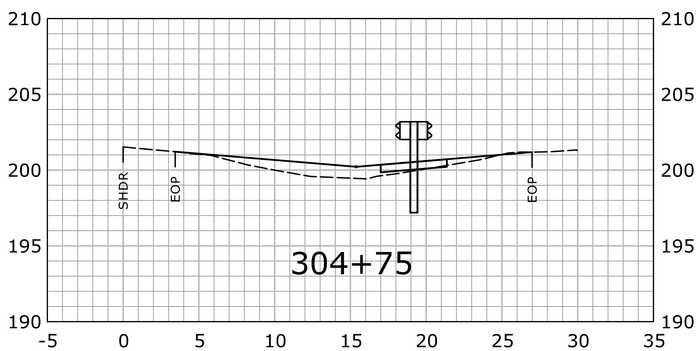
DRAWING TITLE: CROSS SECTIONS

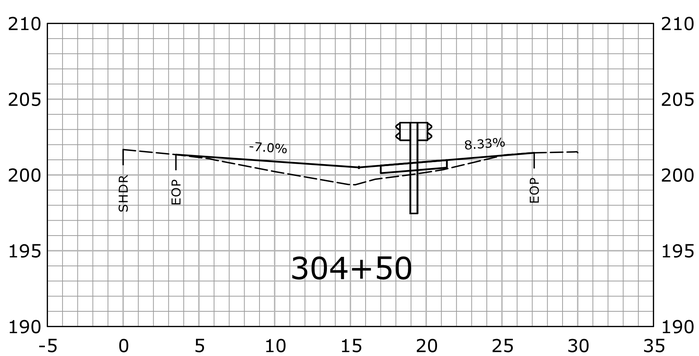
PROJECT NO. 0103-0272

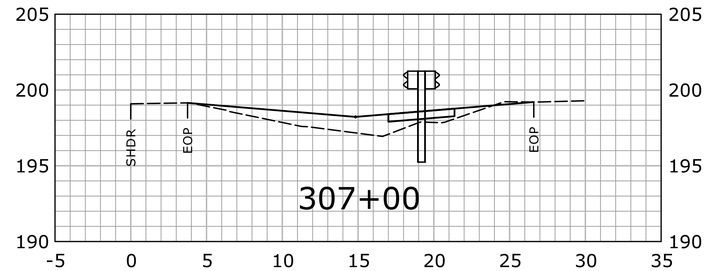
DRAWING NO. XSC-36

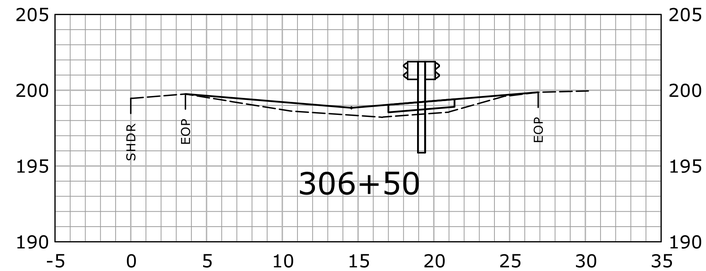
SHEET NO. 03.70

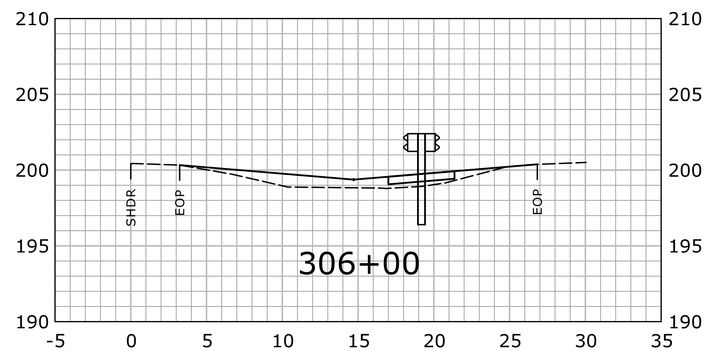


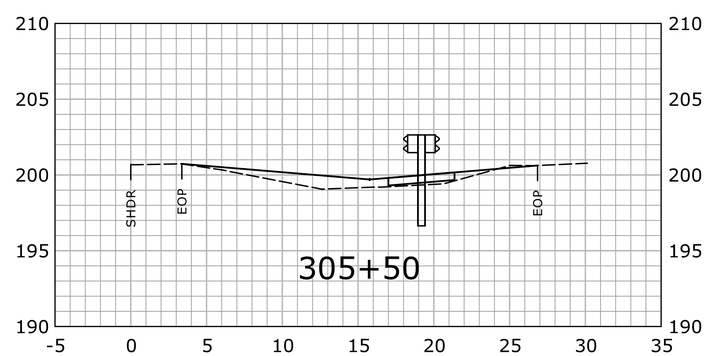


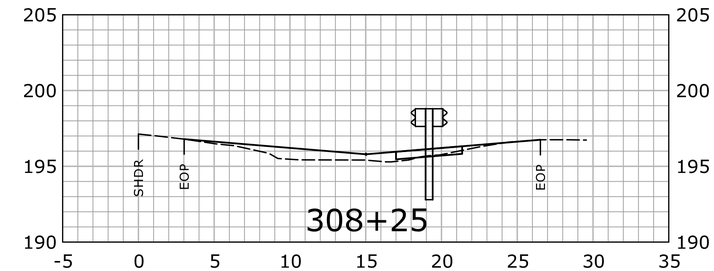


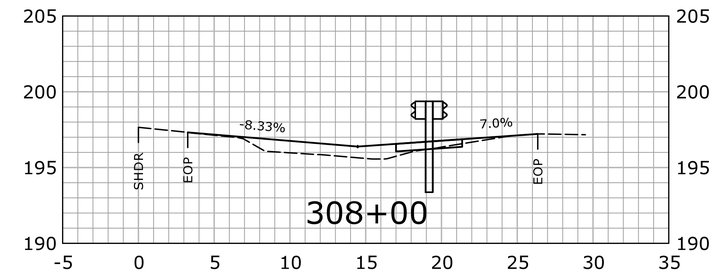


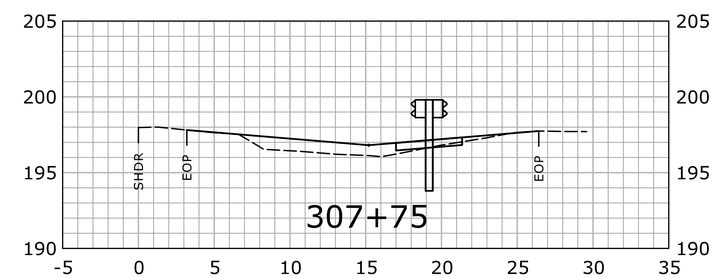


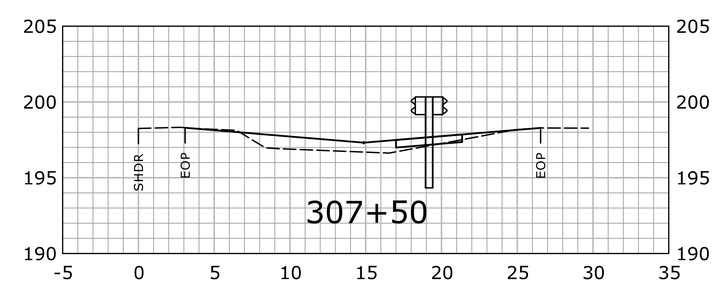












STA.304+50 TO STA.308+25

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

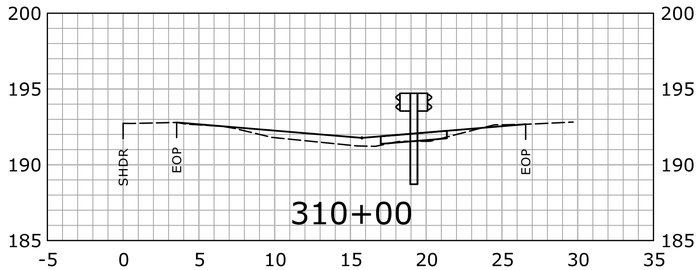
TOWN:
NORWICH AND MONTVILLE

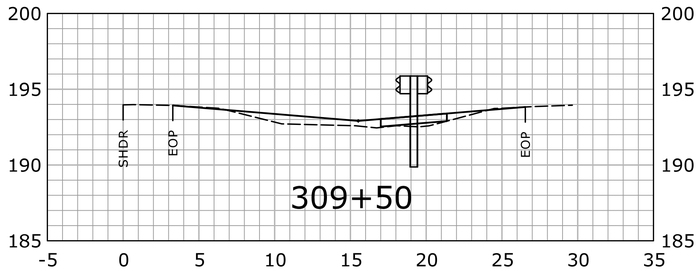
DRAWING TITLE:
CROSS SECTIONS

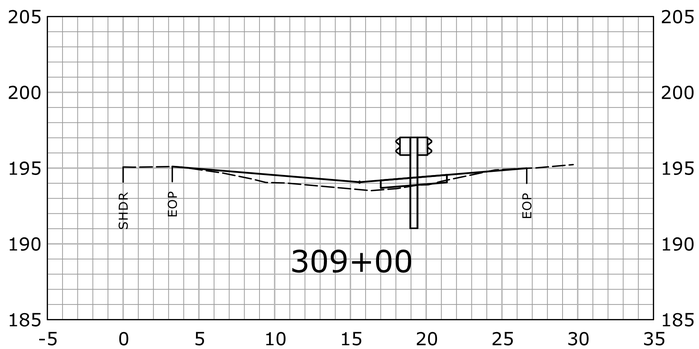
PROJECT NO. 0103-0272

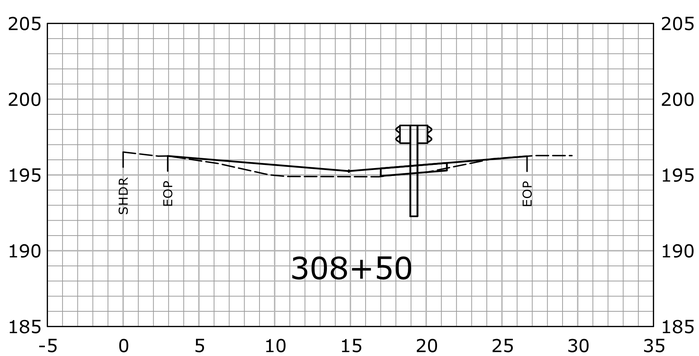
DRAWING NO. XSC-37

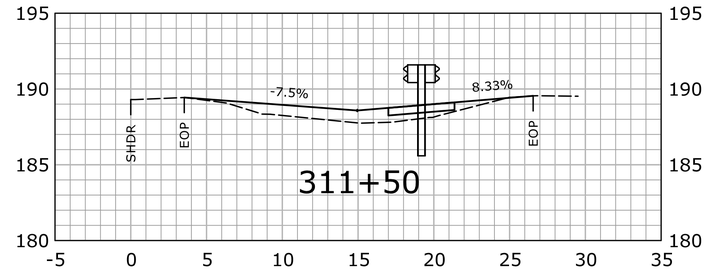
SHEET NO. 03.71

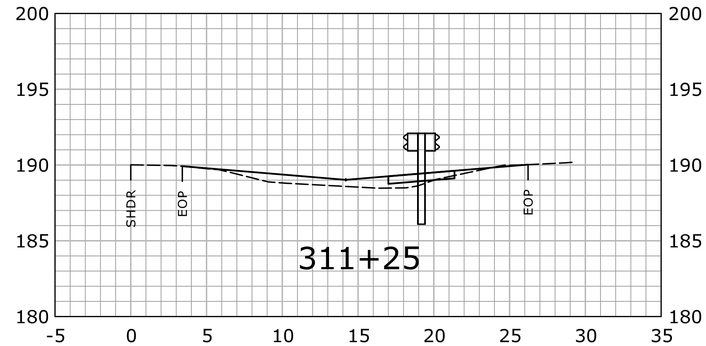


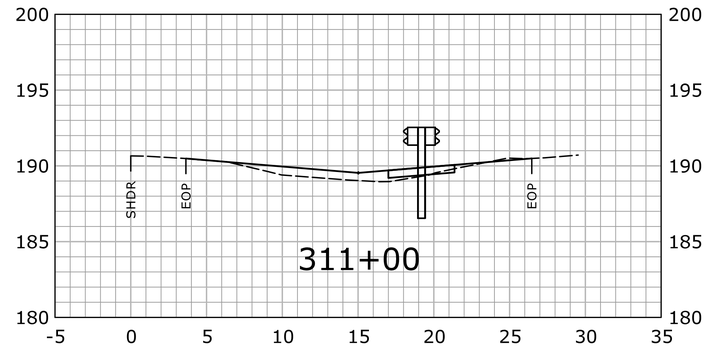


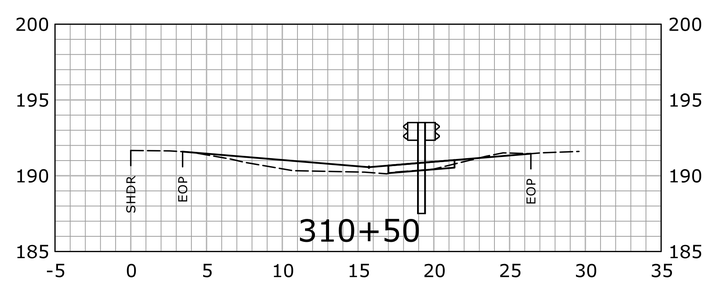


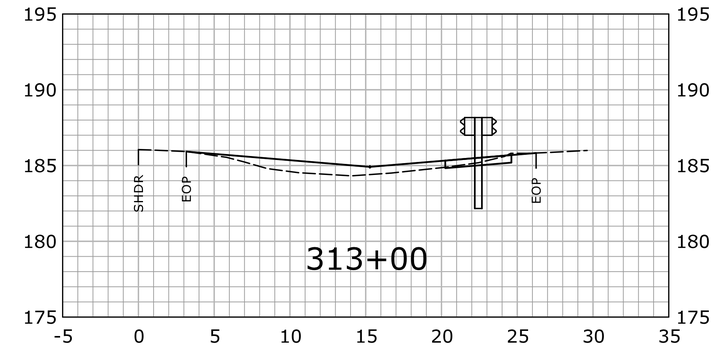


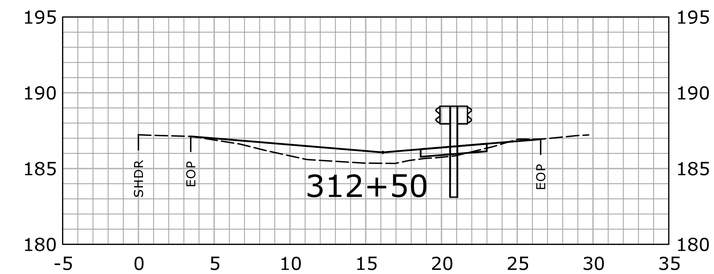


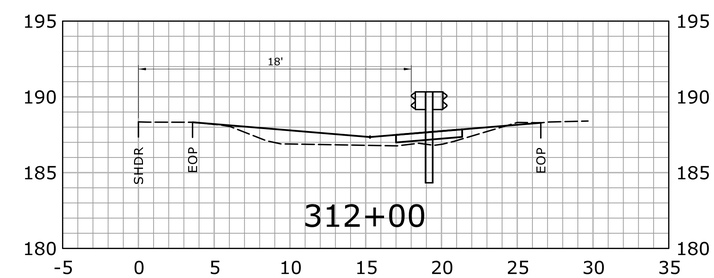


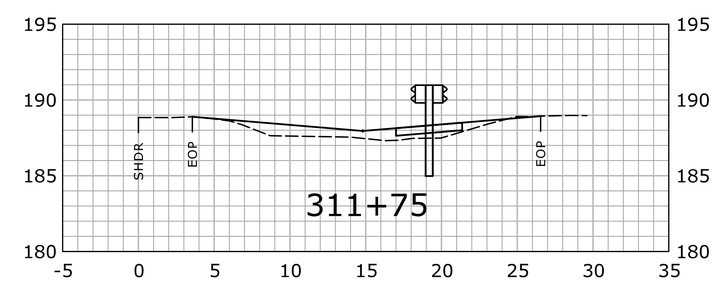












STA.308+50 TO STA.313+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

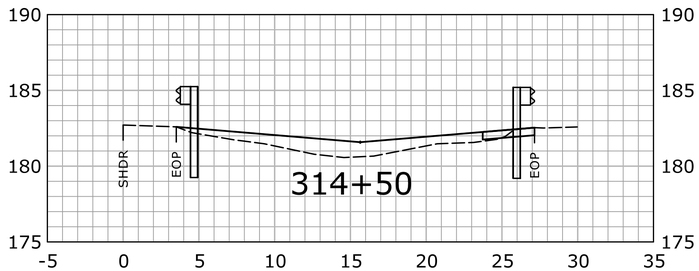
TOWN:
NORWICH AND MONTVILLE

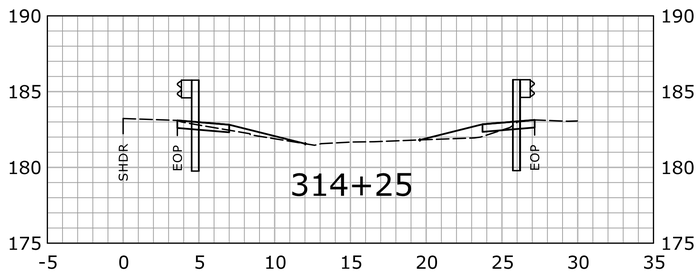
DRAWING TITLE:
CROSS SECTIONS

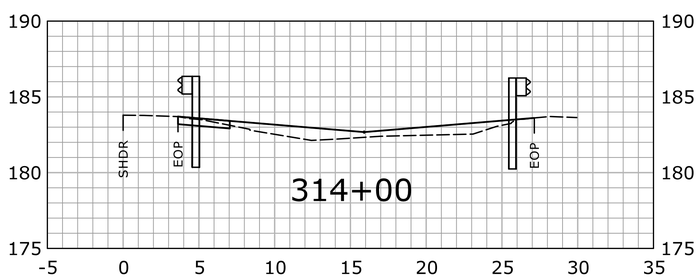
PROJECT NO. 0103-0272

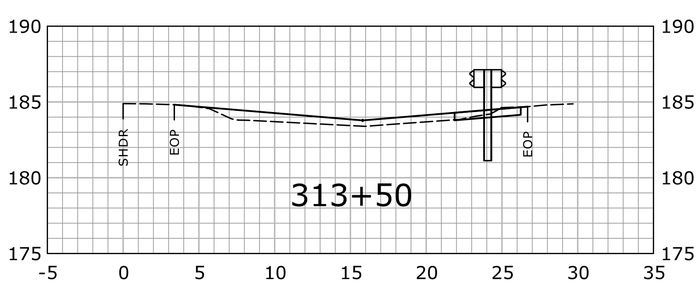
DRAWING NO. XSC-38

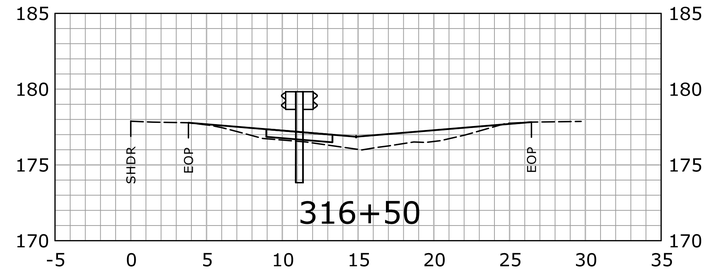
SHEET NO. 03.72

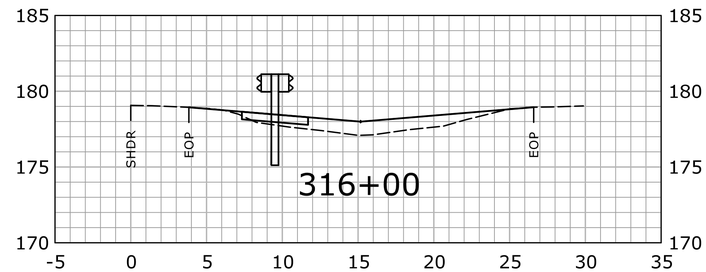


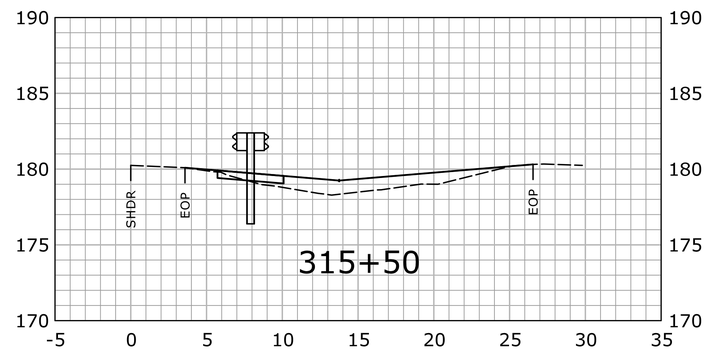


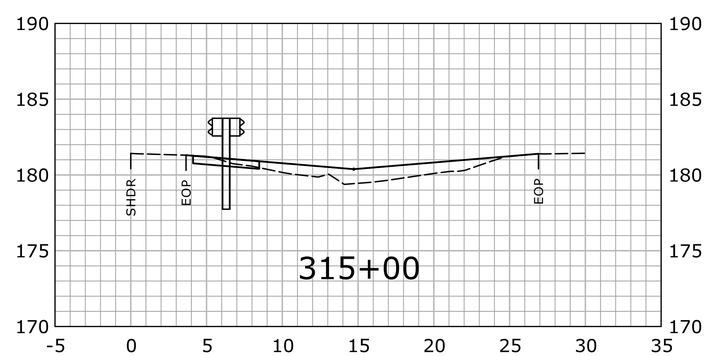


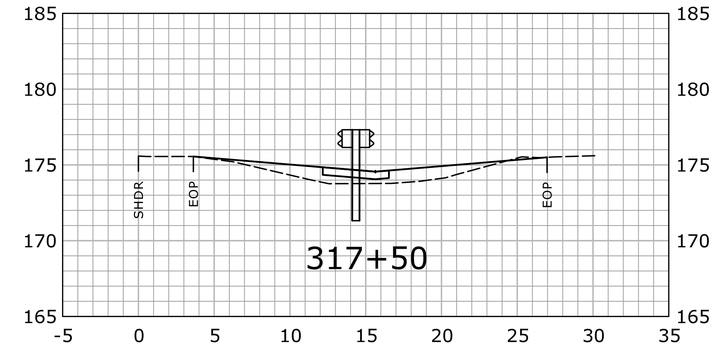


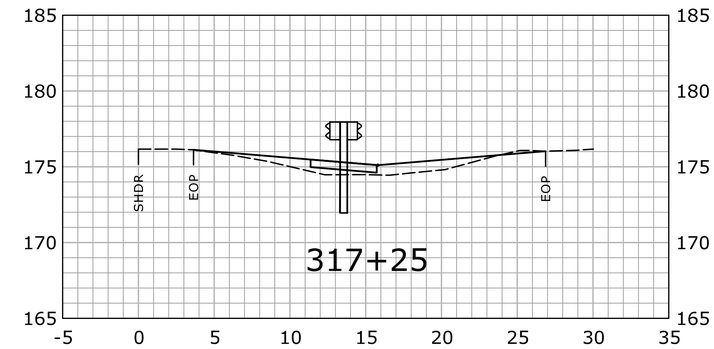


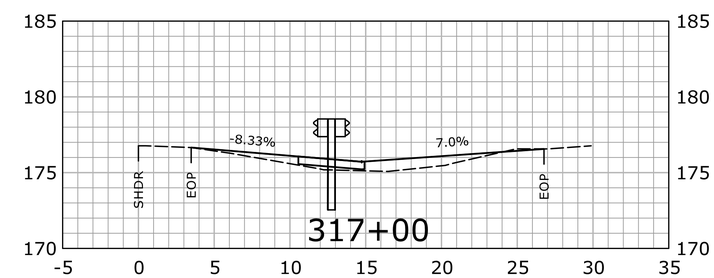


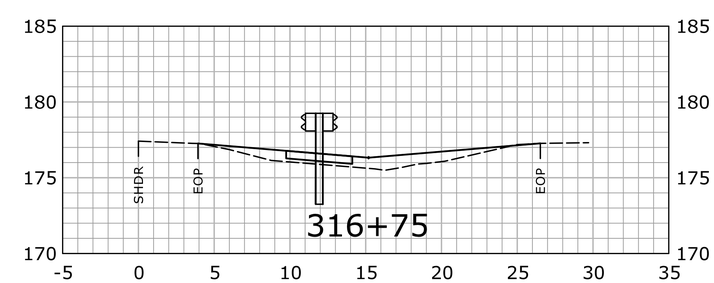












STA.313+50 TO STA.317+50

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Matthew Vail

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

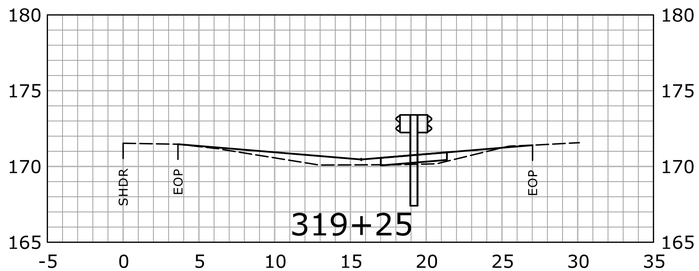
TOWN: NORWICH AND MONTVILLE

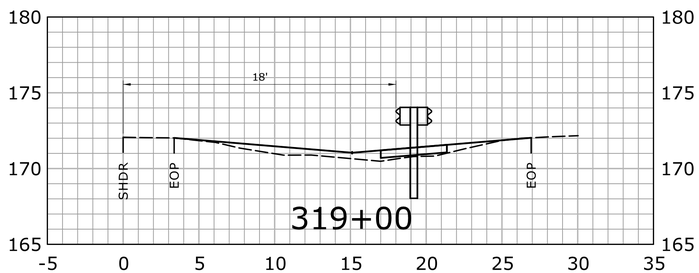
DRAWING TITLE: CROSS SECTIONS

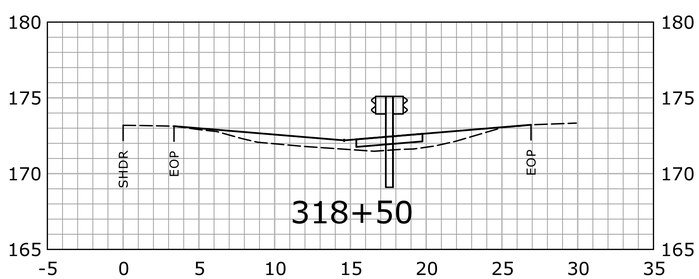
PROJECT NO. 0103-0272

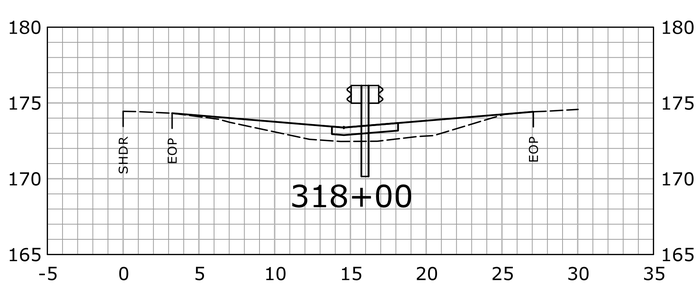
DRAWING NO. XSC-39

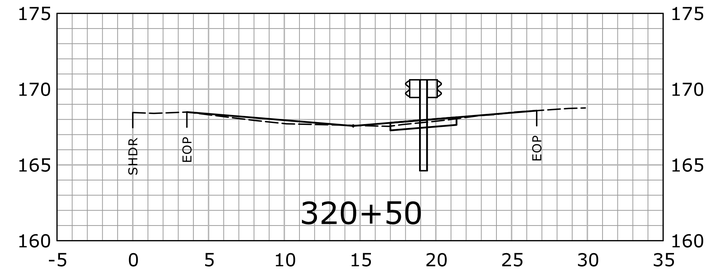
SHEET NO. 03.73

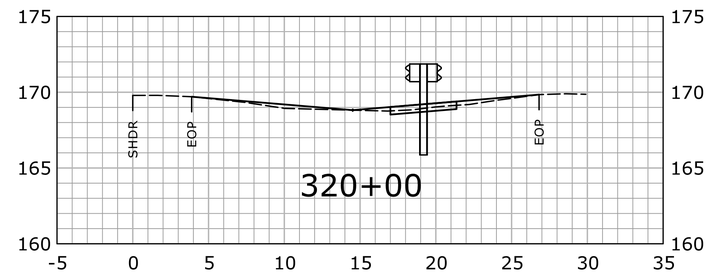


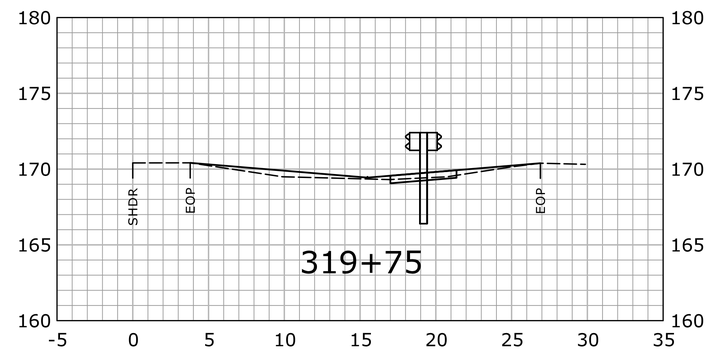


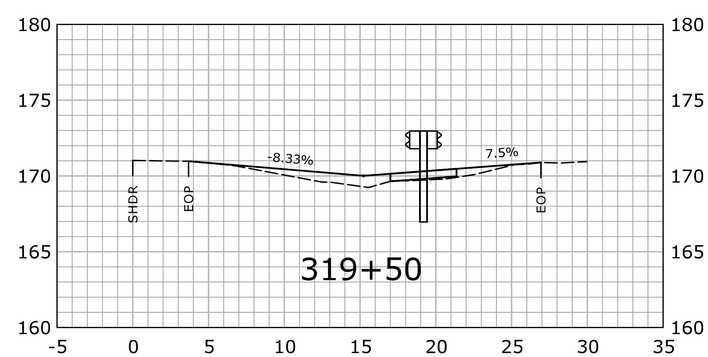


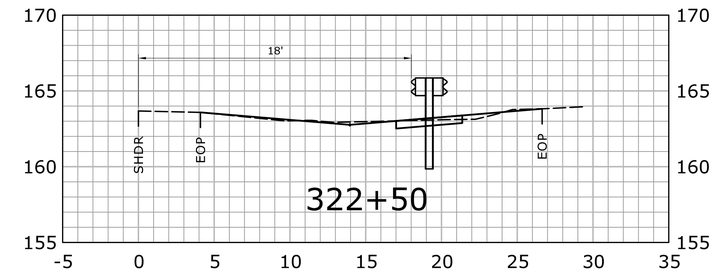


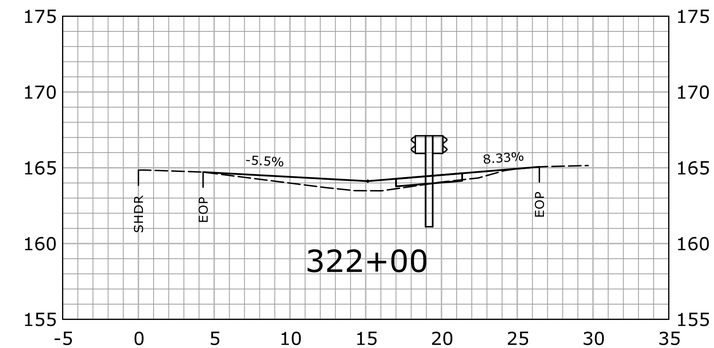


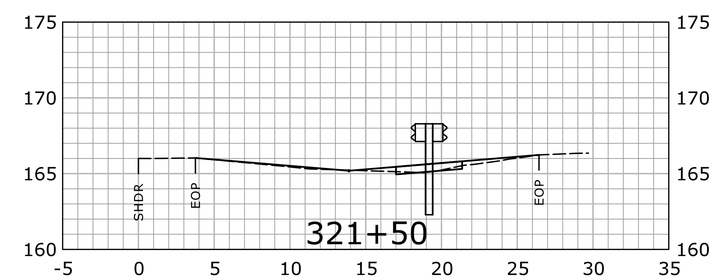


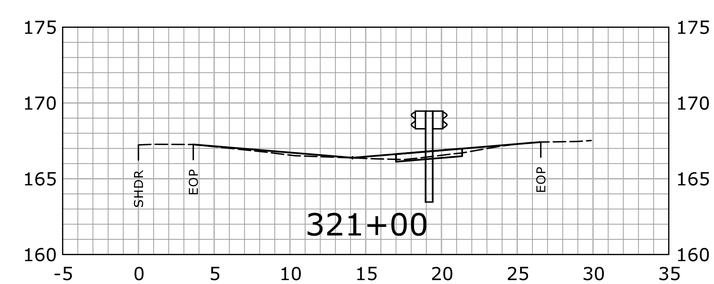












STA.318+00 TO STA.322+50

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: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Matthew Vaz

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

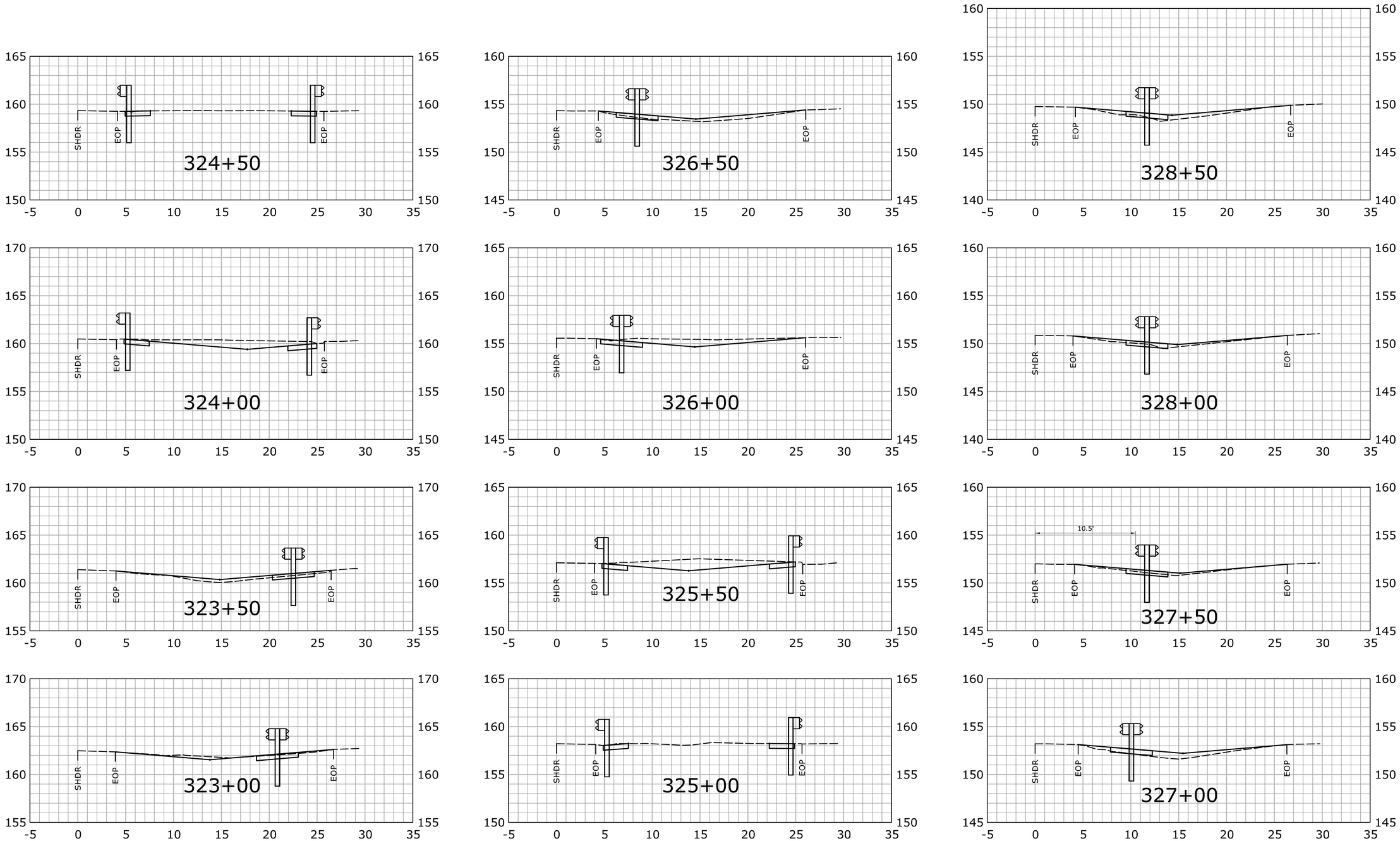
TOWN: NORWICH AND MONTVILLE

DRAWING TITLE: CROSS SECTIONS

PROJECT NO. 0103-0272

DRAWING NO. XSC-40

SHEET NO. 03.74



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
Matthew Vail

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

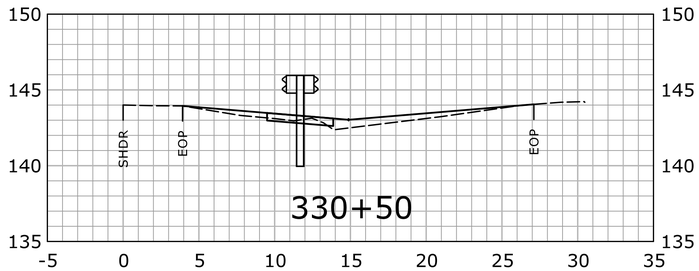
TOWN:
NORWICH AND MONTVILLE

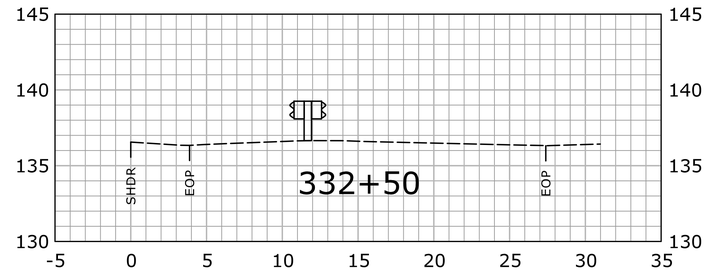
DRAWING TITLE:
CROSS SECTIONS

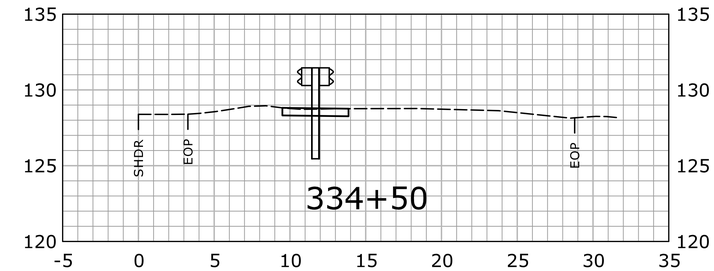
PROJECT NO. 0103-0272

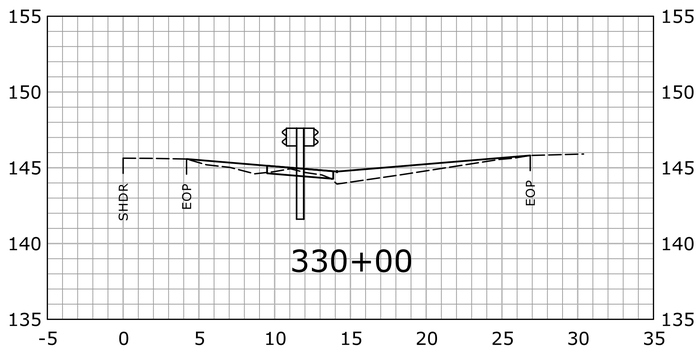
DRAWING NO. XSC-41

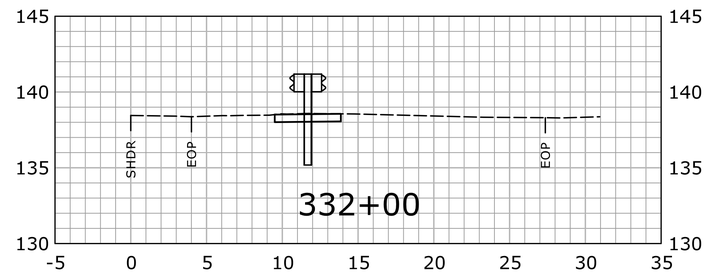
SHEET NO. 03.75

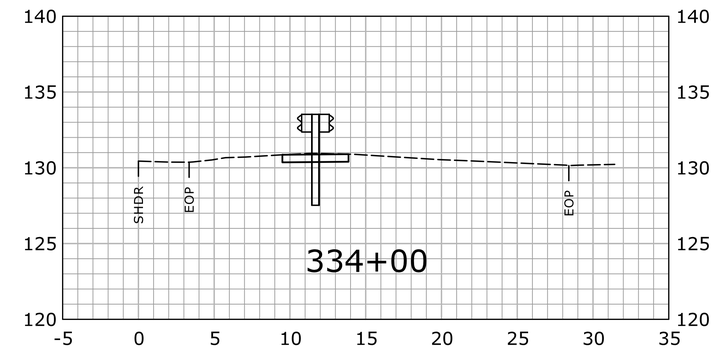


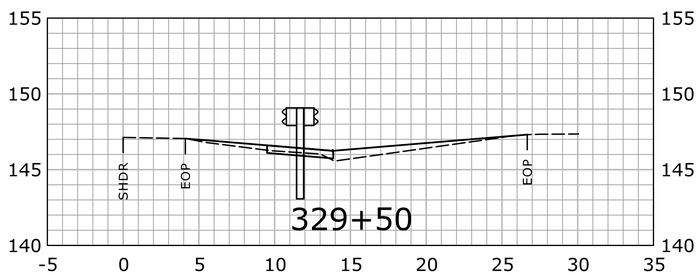


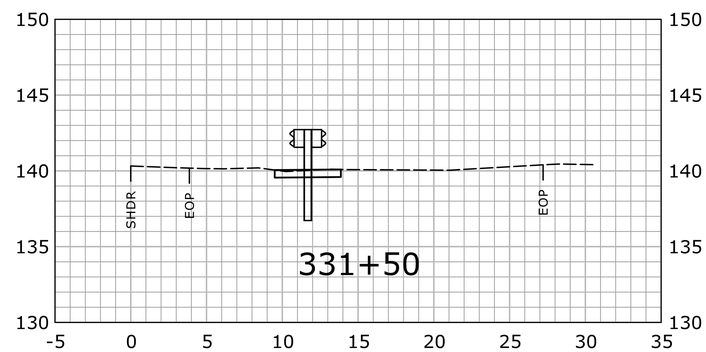


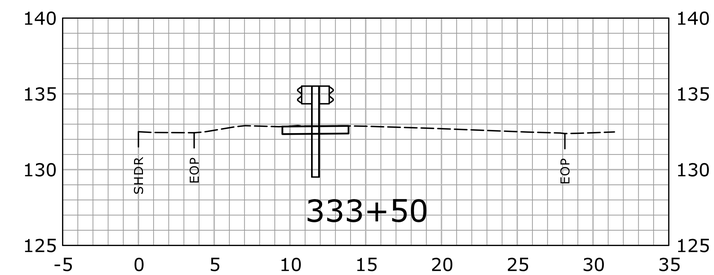


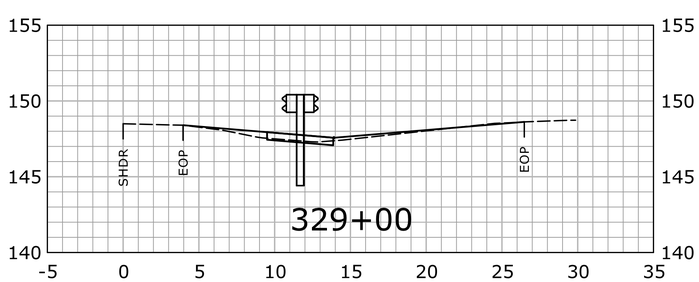


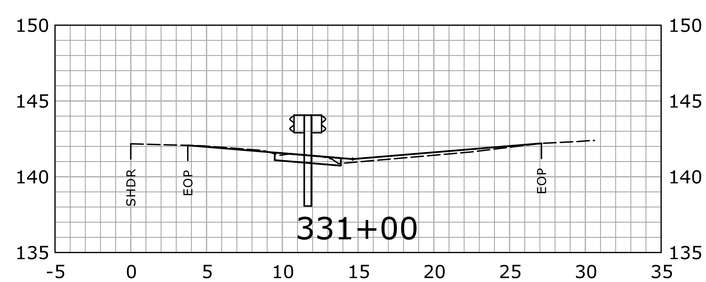


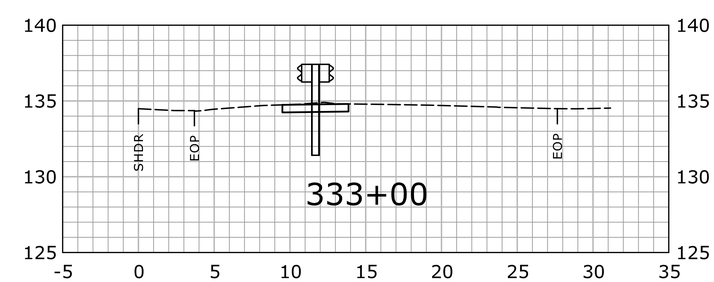












STA.329+00 TO STA.334+50

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Matthew Paul

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

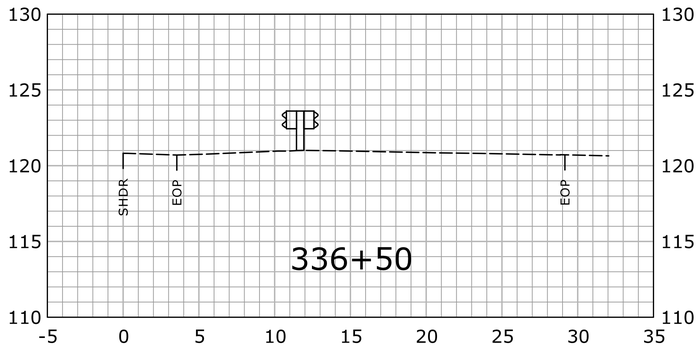
TOWN: NORWICH AND MONTVILLE

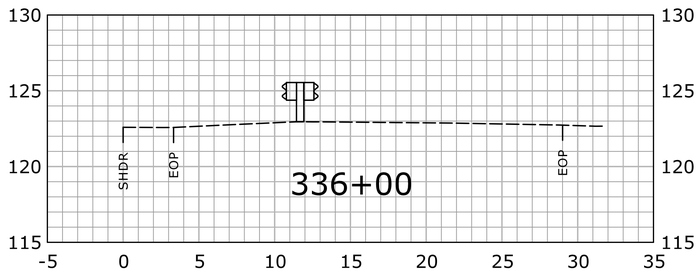
DRAWING TITLE: CROSS SECTIONS

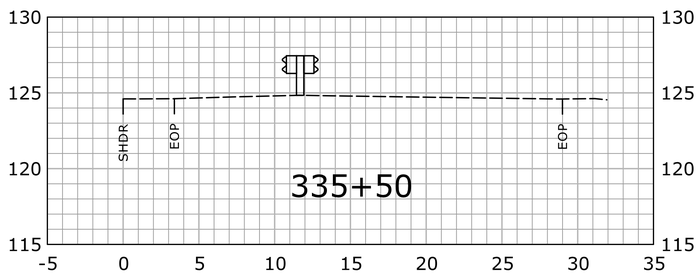
PROJECT NO. 0103-0272

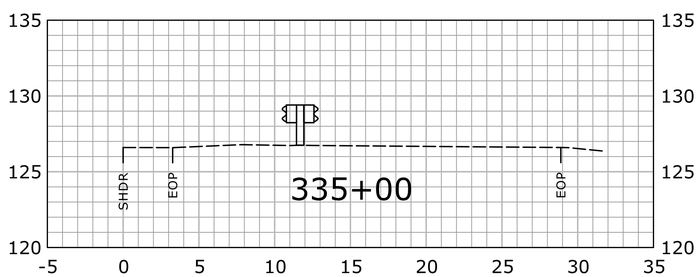
DRAWING NO. XSC-42

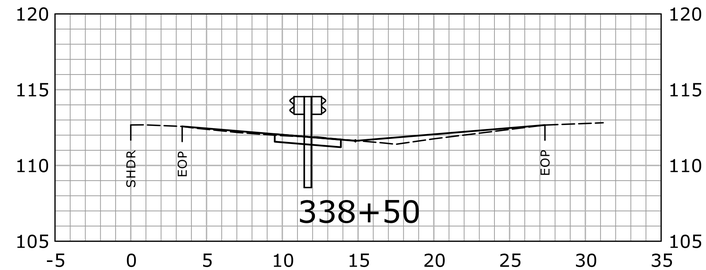
SHEET NO. 03.76

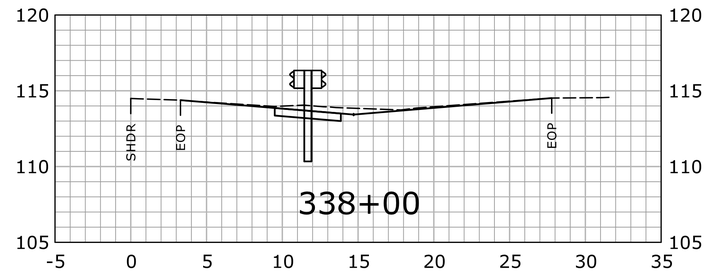


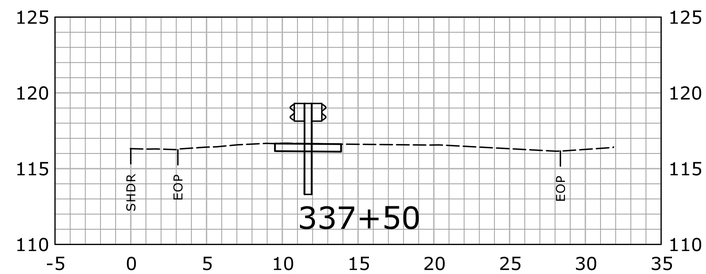


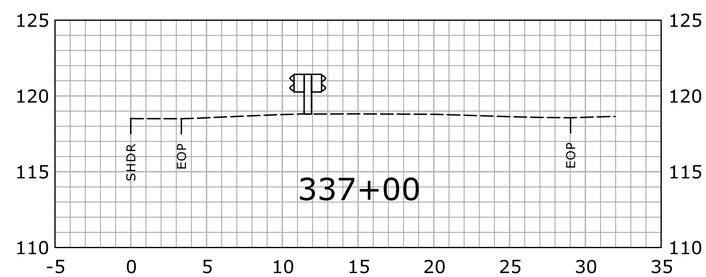


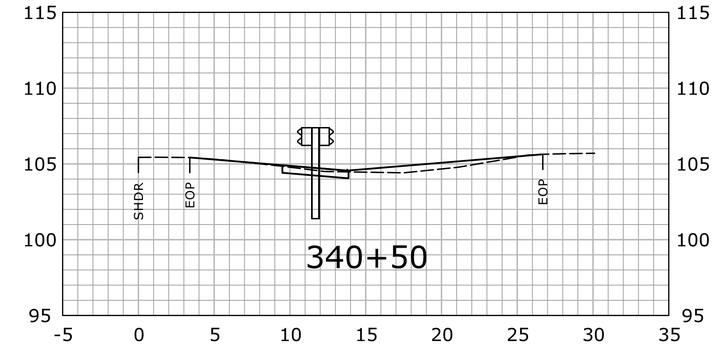


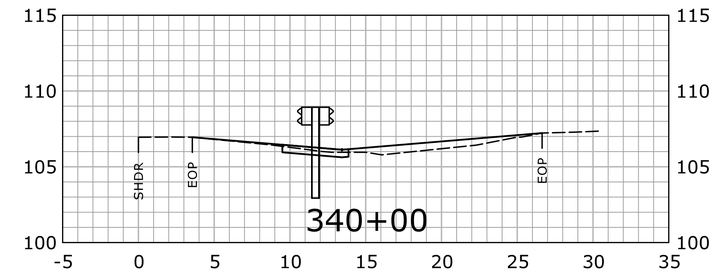


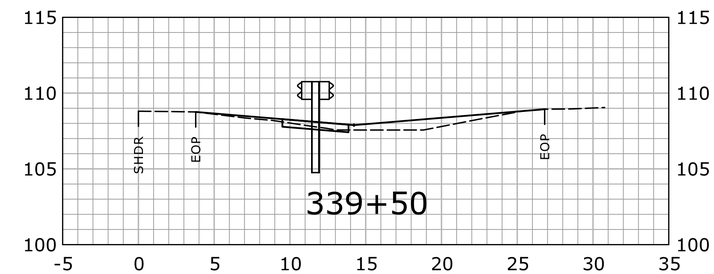


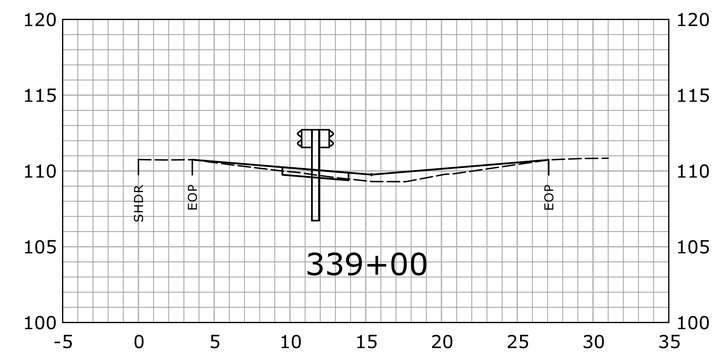












STA.335+00 TO STA.340+50

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Matthew Paul

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

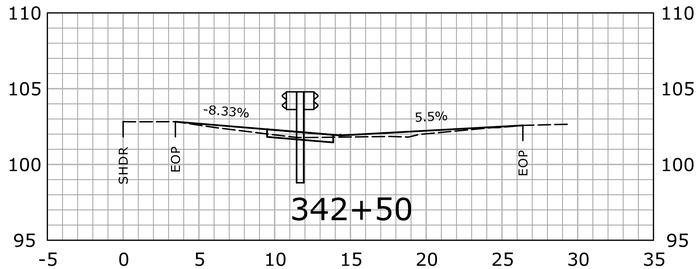
TOWN: NORWICH AND MONTVILLE

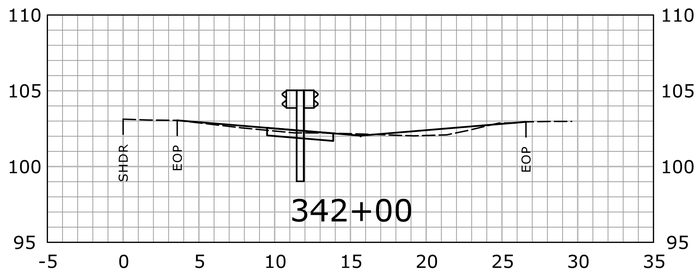
DRAWING TITLE: CROSS SECTIONS

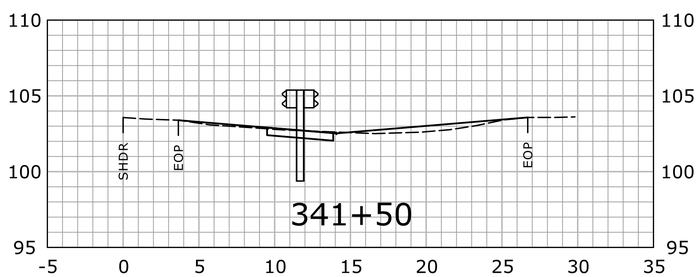
PROJECT NO. 0103-0272

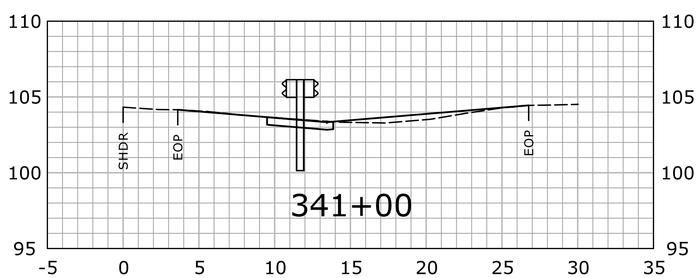
DRAWING NO. XSC-43

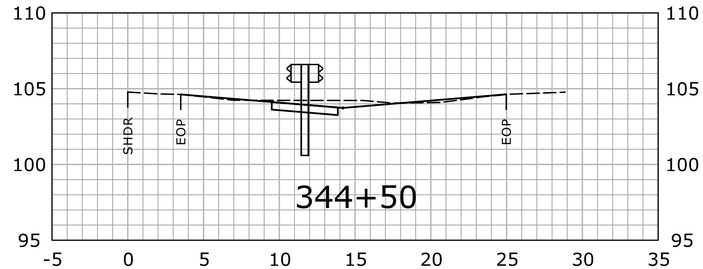
SHEET NO. 03.77

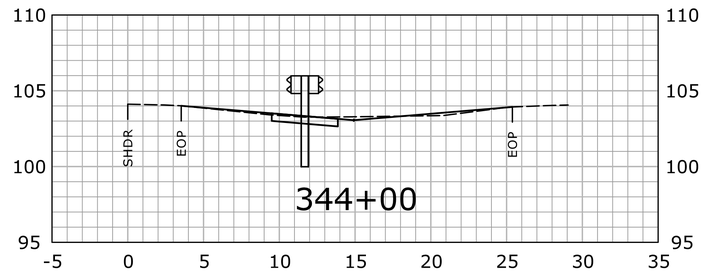


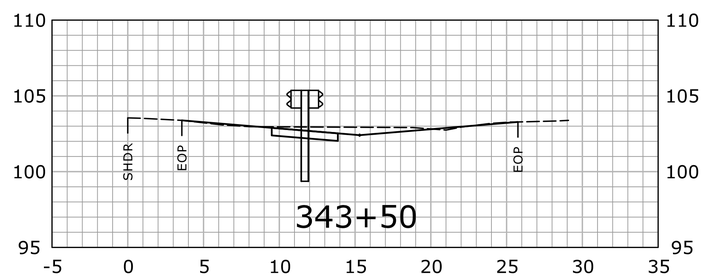


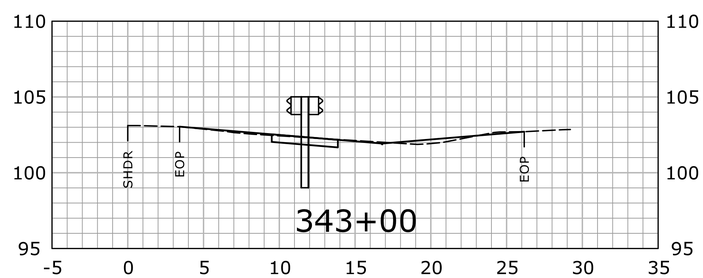


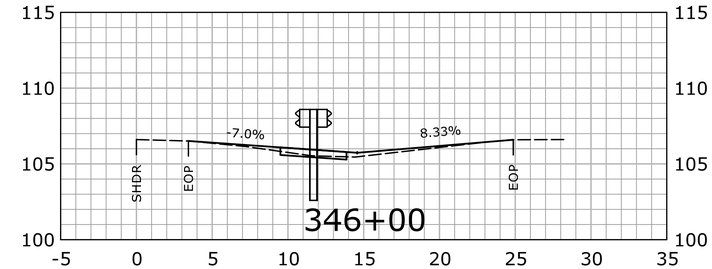


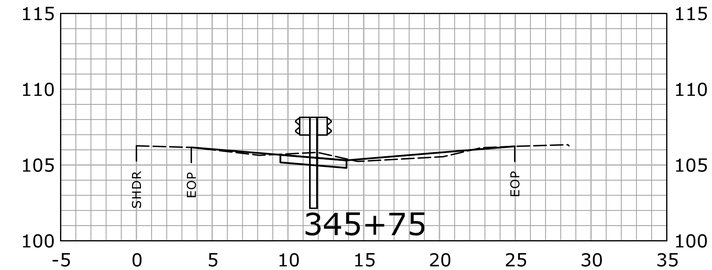


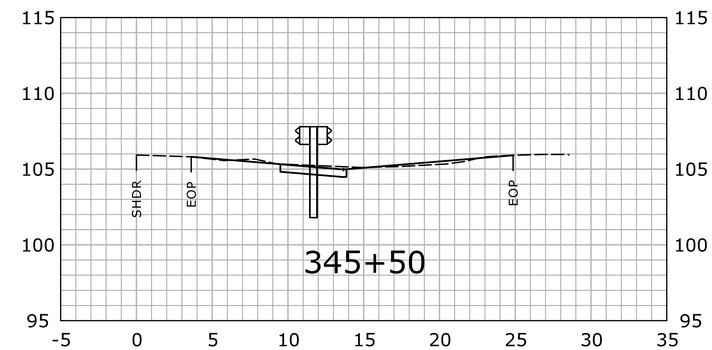


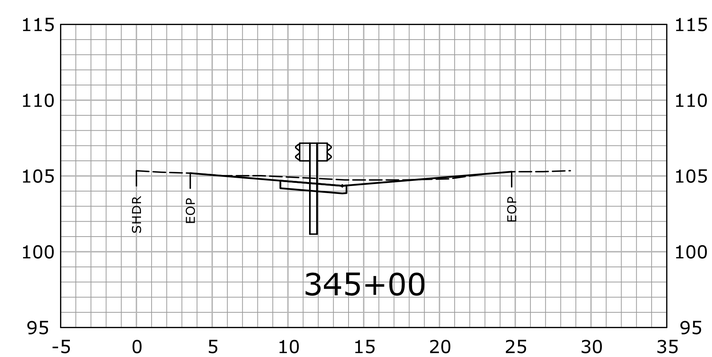












STA.341+00 TO STA.346+00

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: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Matthew Peck

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

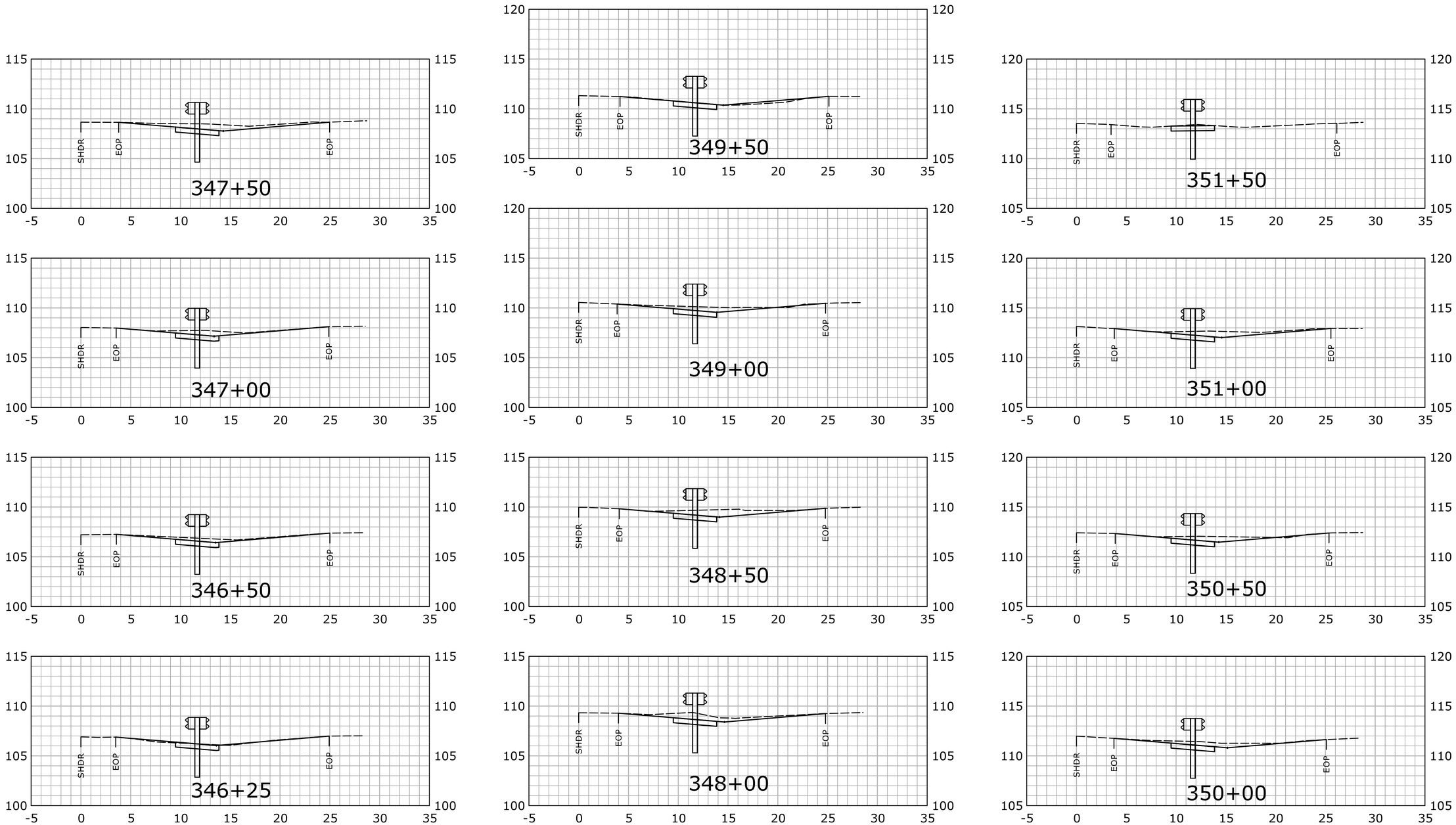
TOWN: NORWICH AND MONTVILLE

DRAWING TITLE: CROSS SECTIONS

PROJECT NO. 0103-0272

DRAWING NO. XSC-44

SHEET NO. 03.78



REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Matthew Vail

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

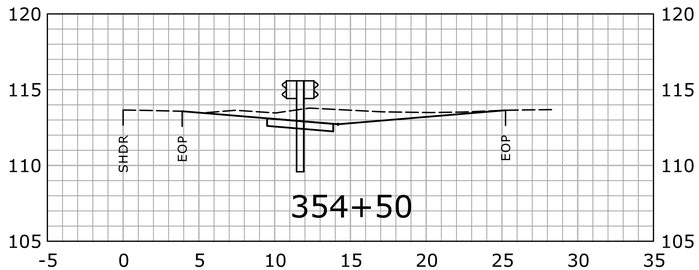
TOWN: NORWICH AND MONTVILLE

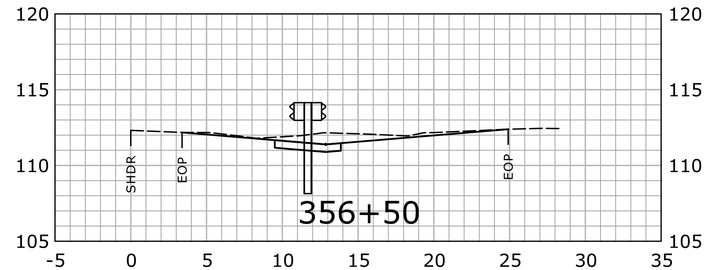
DRAWING TITLE: CROSS SECTIONS

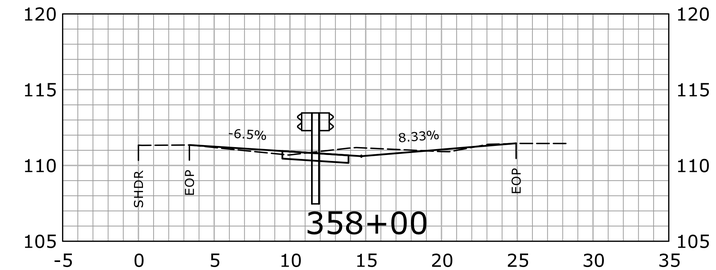
PROJECT NO. 0103-0272

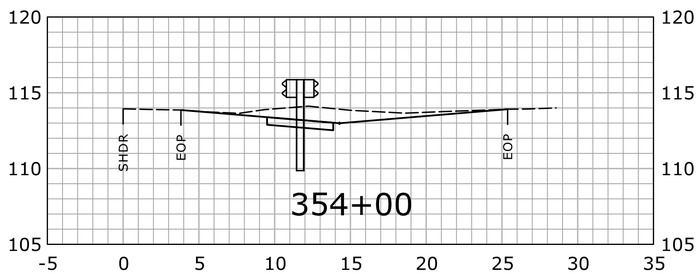
DRAWING NO. XSC-45

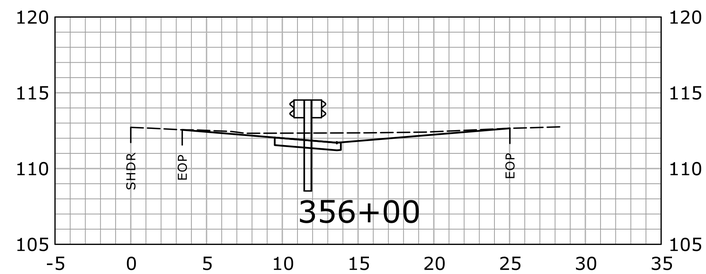
SHEET NO. 03.79

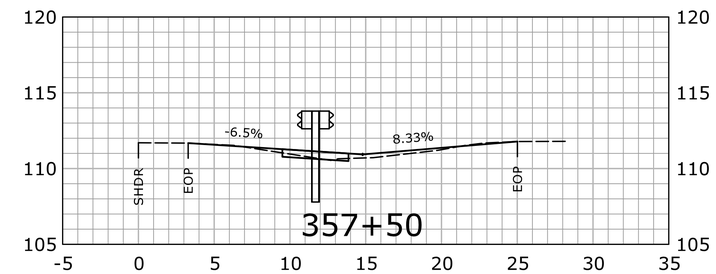


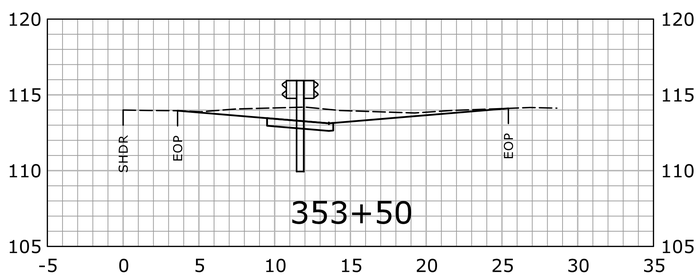


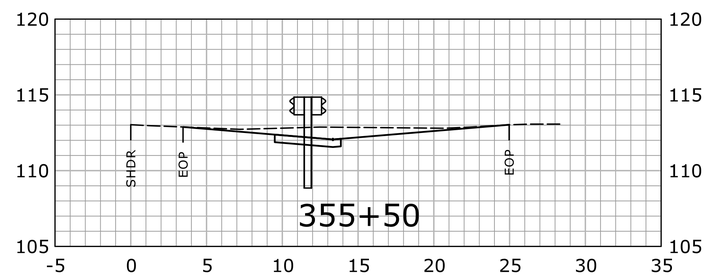


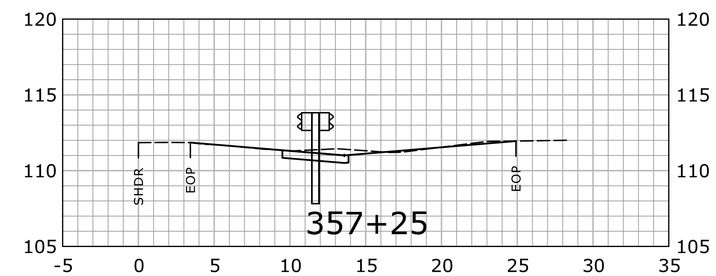


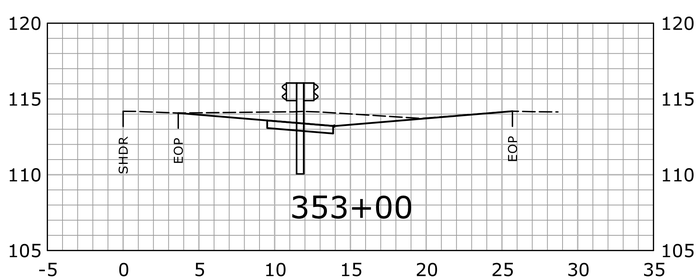


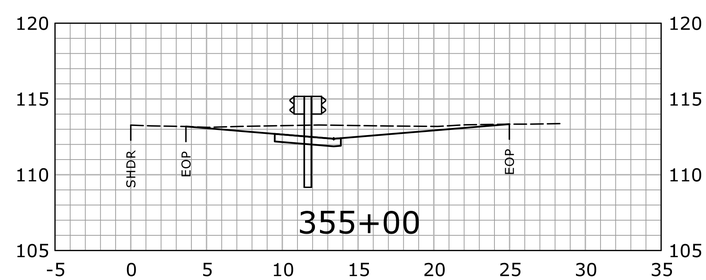


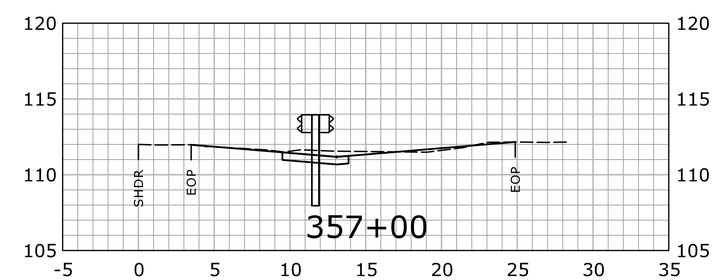












STA.353+00 TO STA.358+00

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/BLOCK: OFFICE OF ENGINEERING

APPROVED BY: Matthew Vail

PROJECT TITLE: REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

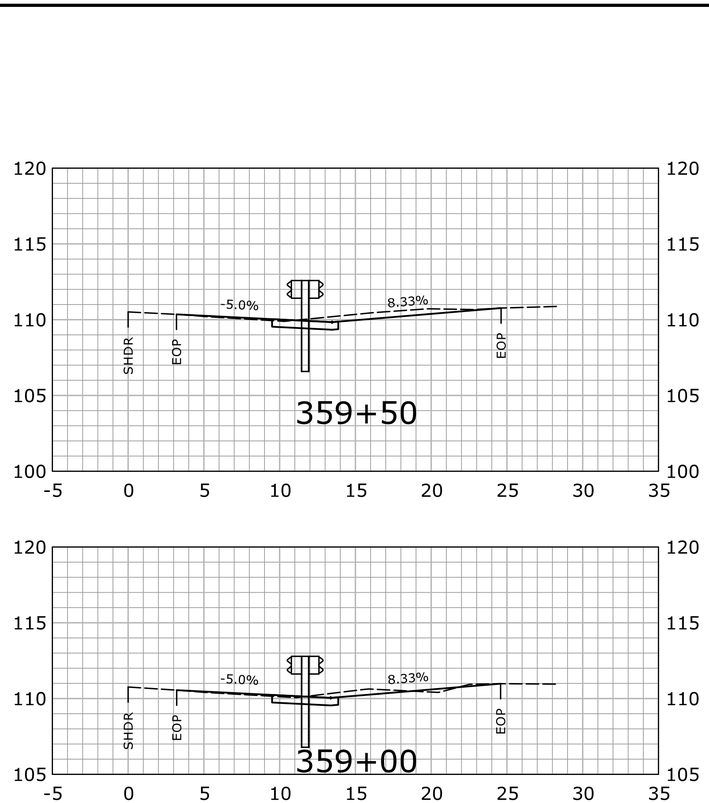
TOWN: NORWICH AND MONTVILLE

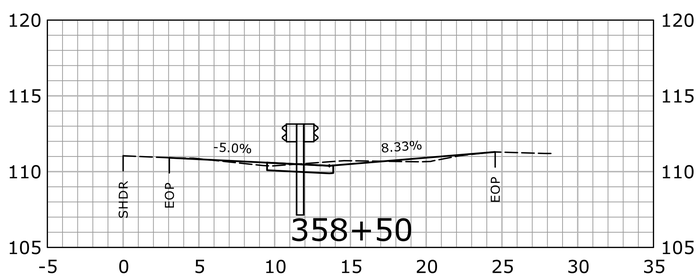
DRAWING TITLE: CROSS SECTIONS

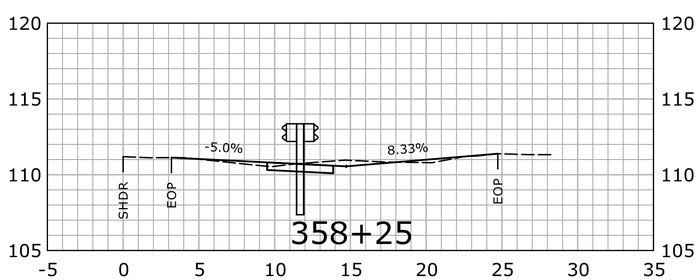
PROJECT NO. 0103-0272

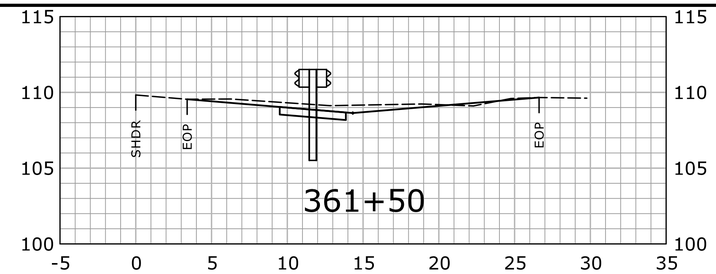
DRAWING NO. XSC-46

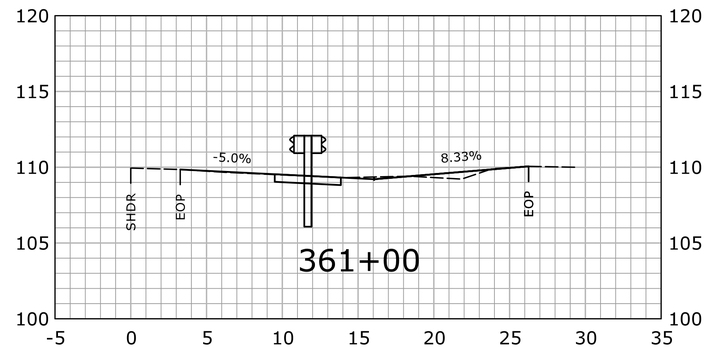
SHEET NO. 03.80

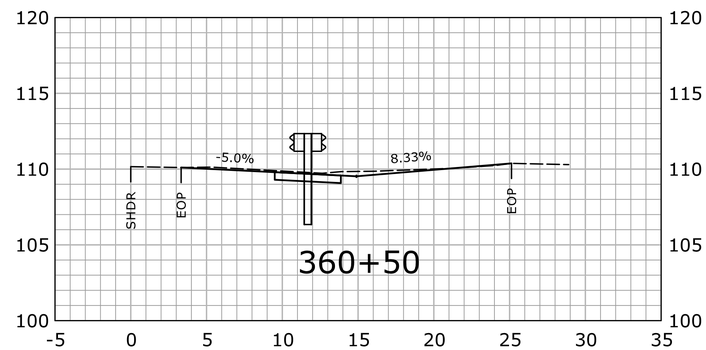


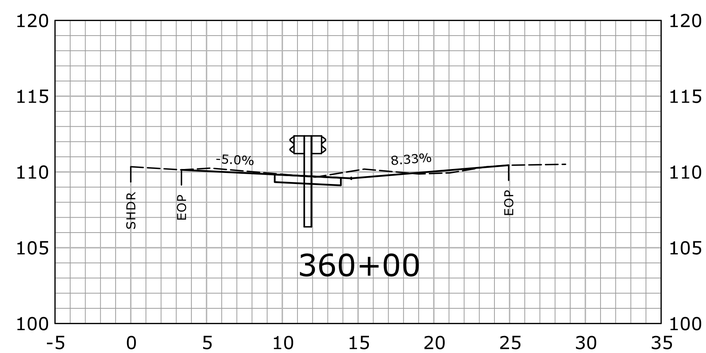


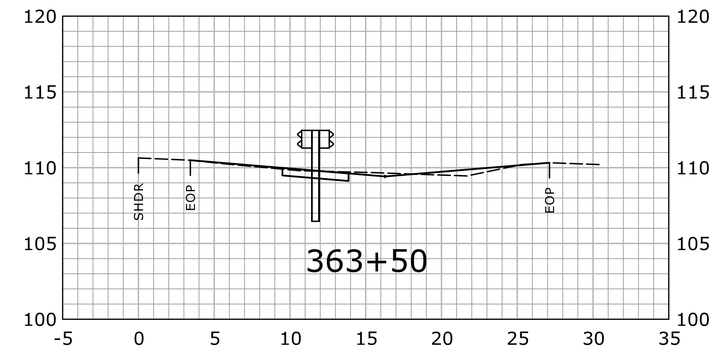


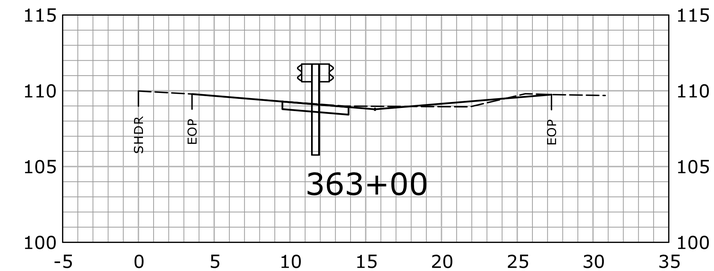


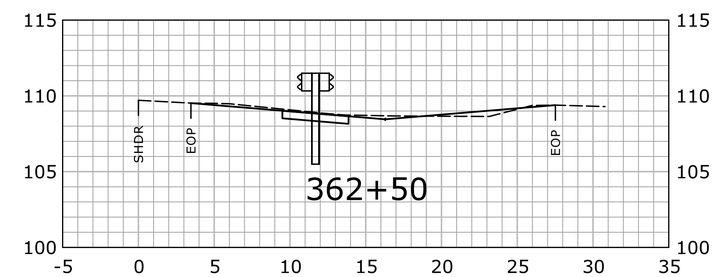


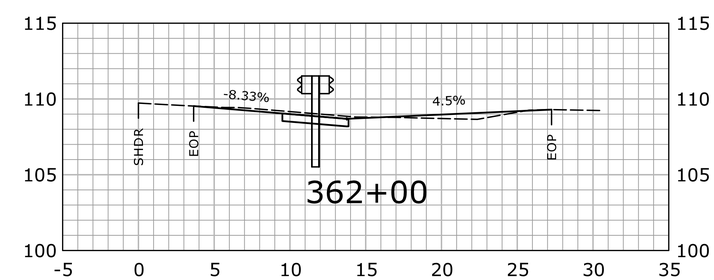












STA.358+25 TO STA.363+50

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

Matthew Peck

PROJECT TITLE:

REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

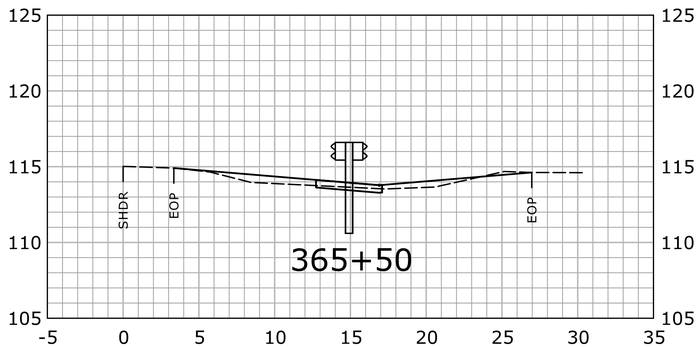
TOWN: **NORWICH AND MONTVILLE**

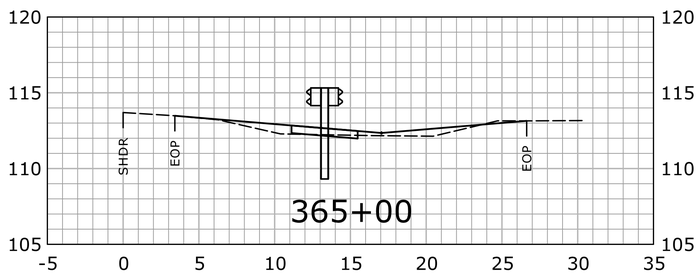
DRAWING TITLE: **CROSS SECTIONS**

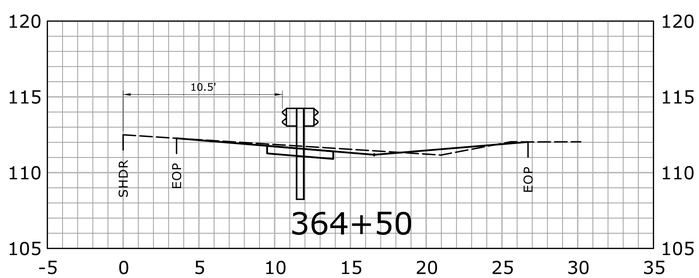
PROJECT NO. **0103-0272**

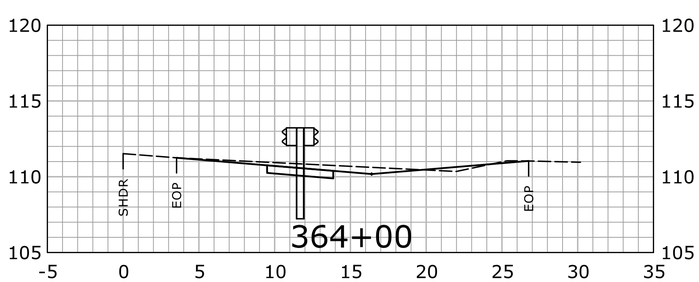
DRAWING NO. **XSC-47**

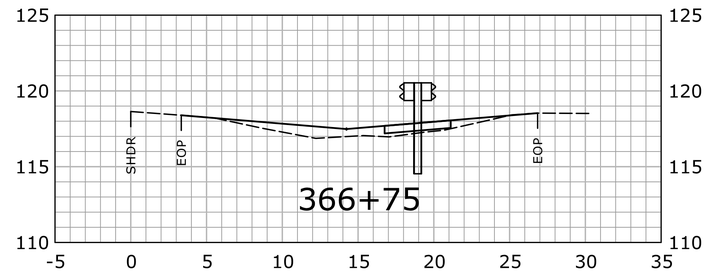
SHEET NO. **03.81**

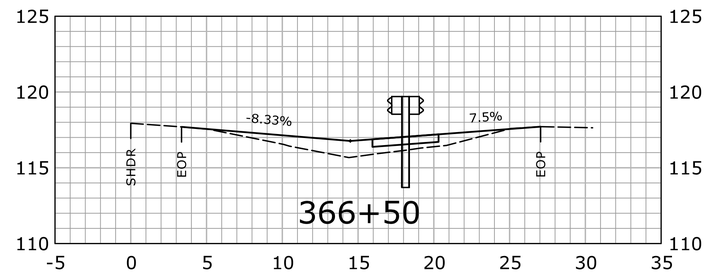


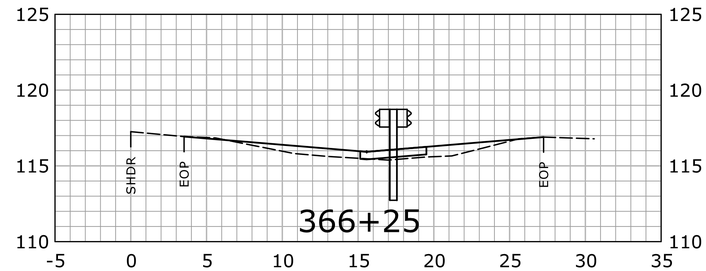


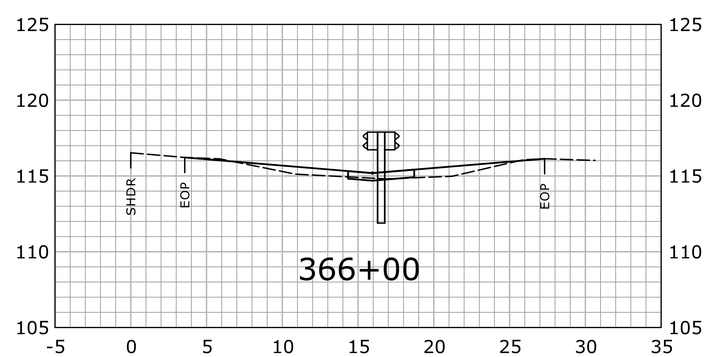


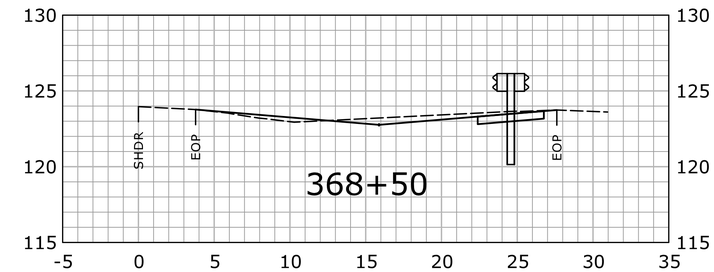


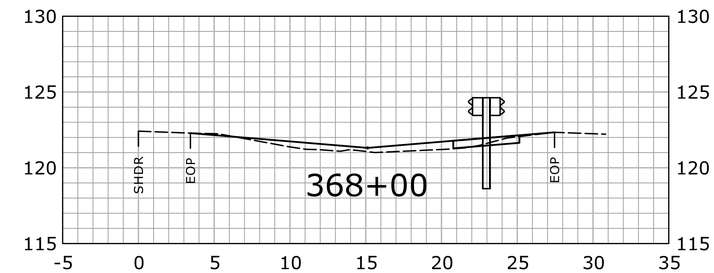


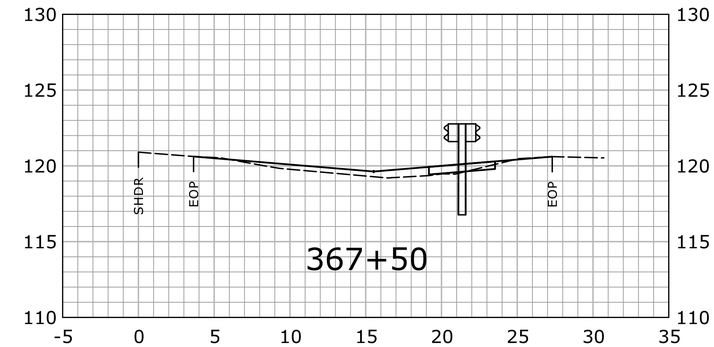


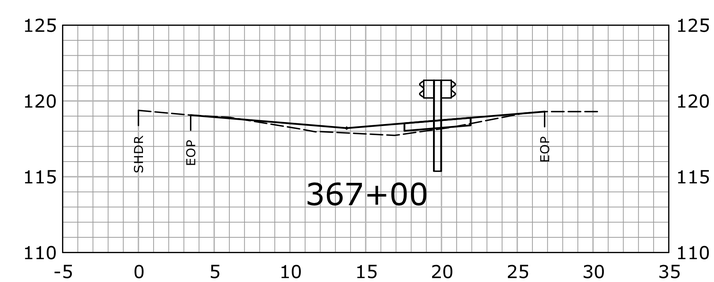












STA.364+00 TO STA.368+50

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:
Matthew Paul

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

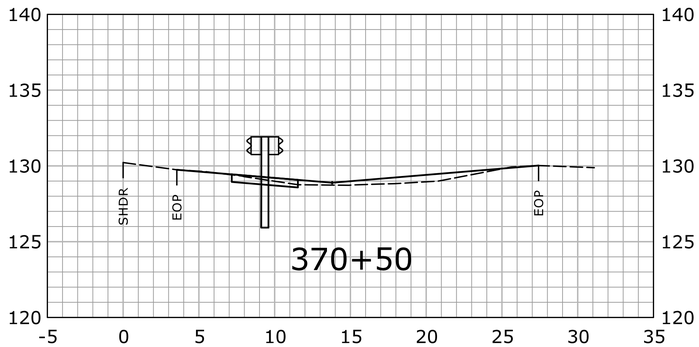
TOWN:
NORWICH AND MONTVILLE

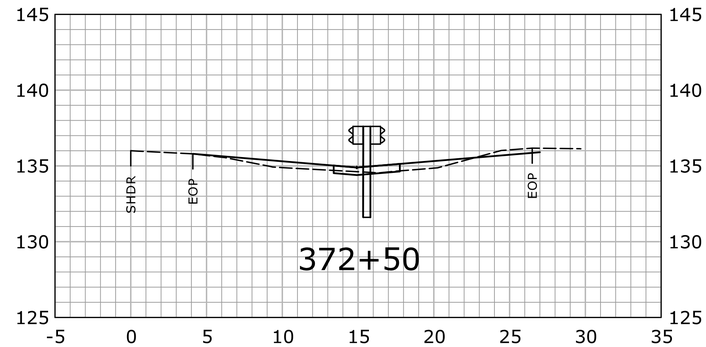
DRAWING TITLE:
CROSS SECTIONS

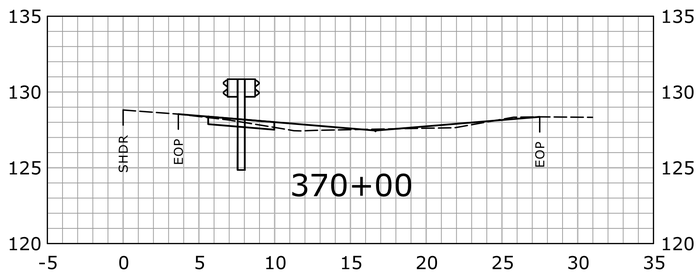
PROJECT NO. 0103-0272

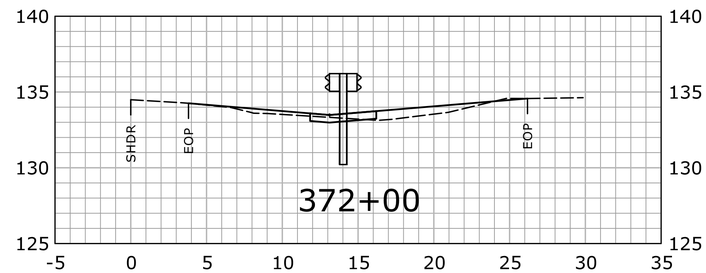
DRAWING NO. XSC-48

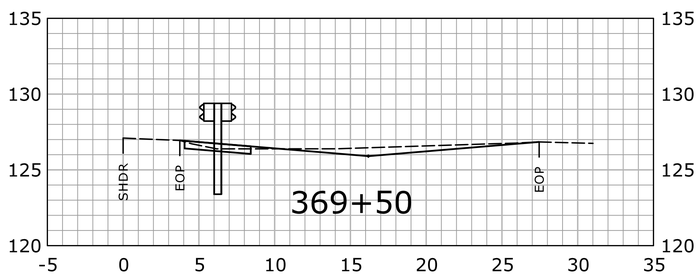
SHEET NO. 03.82

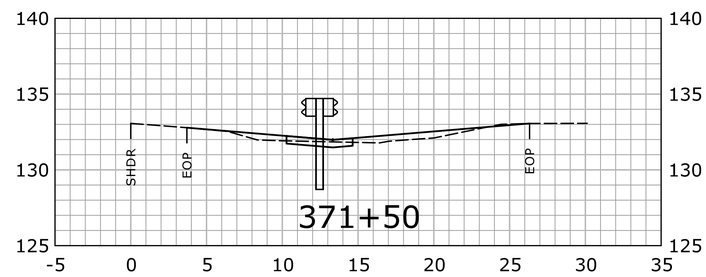


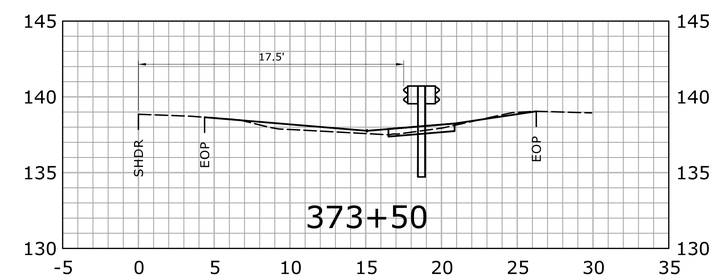


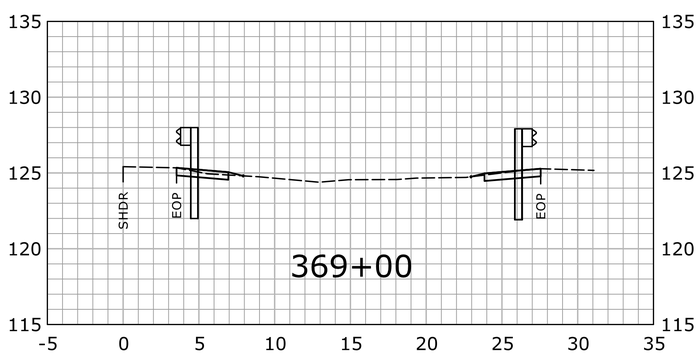


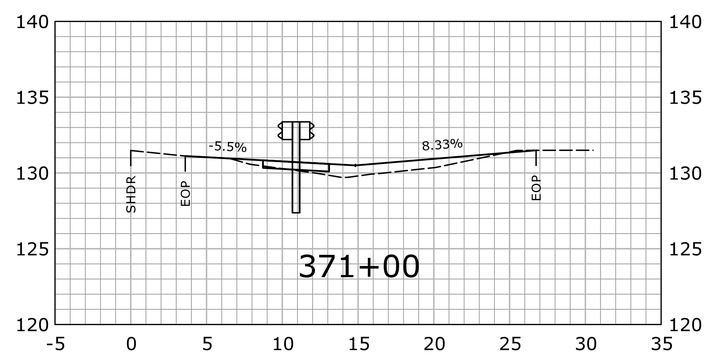


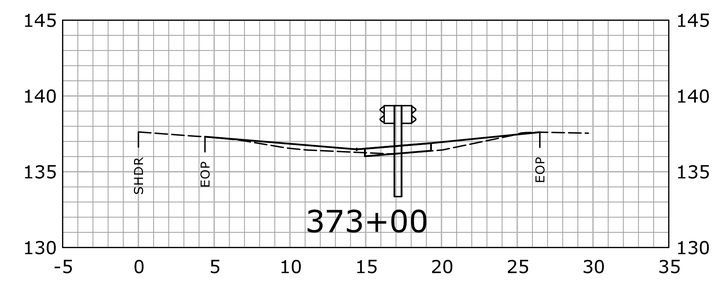












STA.369+00 TO STA.373+50

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 5/23/2019

DESIGNER/DRAFTER: WSN

CHECKED BY: JDA

SCALE IN FEET 0 5 10

SCALE 1" = 5'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\HW_MSH_0103_0272_XSC.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:
REPLACEMENT OF MEDIAN GUIDERAIL ALONG I-395

TOWN:
NORWICH AND MONTVILLE

DRAWING TITLE:
CROSS SECTIONS

PROJECT NO. 0103-0272

DRAWING NO. XSC-49

SHEET NO. 03.83