

# FINAL DESIGN SUBMISSION

# BEELINE TRAIL PHASE I NEW BRITAIN, CONNECTICUT STATE PROJECT NO. 88-198 FEDERAL AID PROJECT NO. BIKE (092)

### PREPARED FOR:

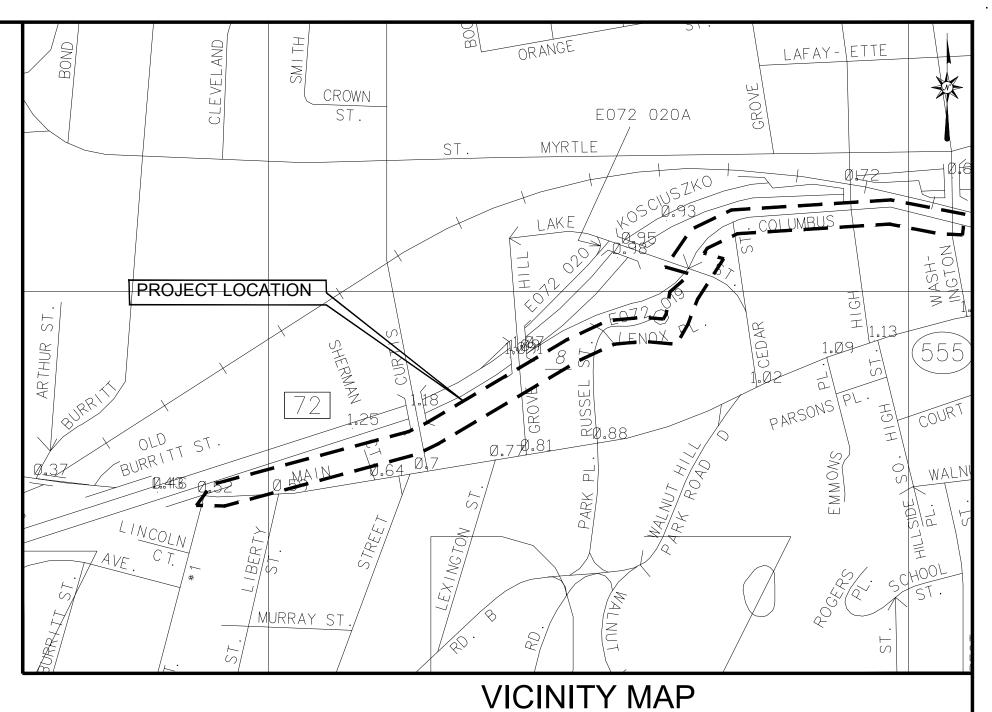
## CITY OF NEW BRITAIN 27 WEST MAIN STREET NEW BRITAIN, CT 06051

CITY ENGINEER: JASON OUTLAW, PE PUBLIC WORKS DIRECTOR: MARK MORIARTY, PE MAYOR: ERIN STEWART





ARCHITECTURE ENGINEERING ENVIRONMENTAL LAND SURVEYING 100 CONSTITUTION PLAZA, 10TH FLOOR HARTFORD, CONNECTICUT 06103 (860) 249-2200 (860) 249-2400 Fax



SCALE: 1"=350'

CONSTRUCTION STANDARDS

STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION FORM 818, DATED 2020; SUPPLEMENTAL SPECIFICATIONS DATED JULY 2023; AND SPECIAL PROVISIONS.

ALL HORIZONTAL GEOMETRY ON THIS PROJECT IS BASED ON A FIELD SURVEY PERFORMED BY MARTINEZ COUCH AND ASSOCIATES DATED: JANUARY 2023 ON HORIZONTAL DATUM NAD83. ALL ELEVATIONS ON THIS PROJECT BASED ON NAVD88.

2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL DESIGN STANDARDS:

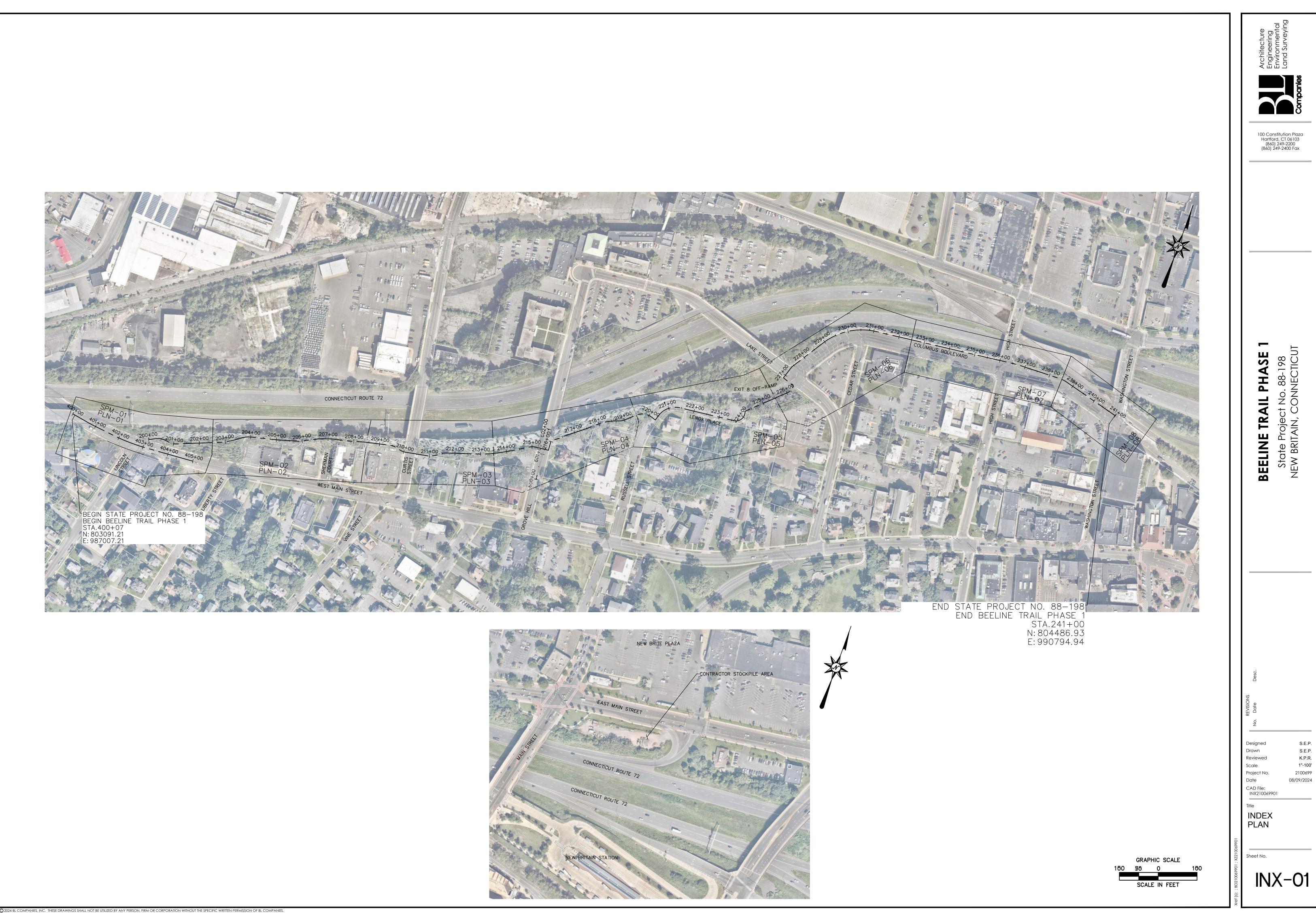
CITY OF NEW BRITAIN DESIGN STANDARDS

CONNECTICUT DEPARTMENT OF TRANSPORTATION HIGHWAY DESIGN MANUAL. (REVISED JANUARY 2023)

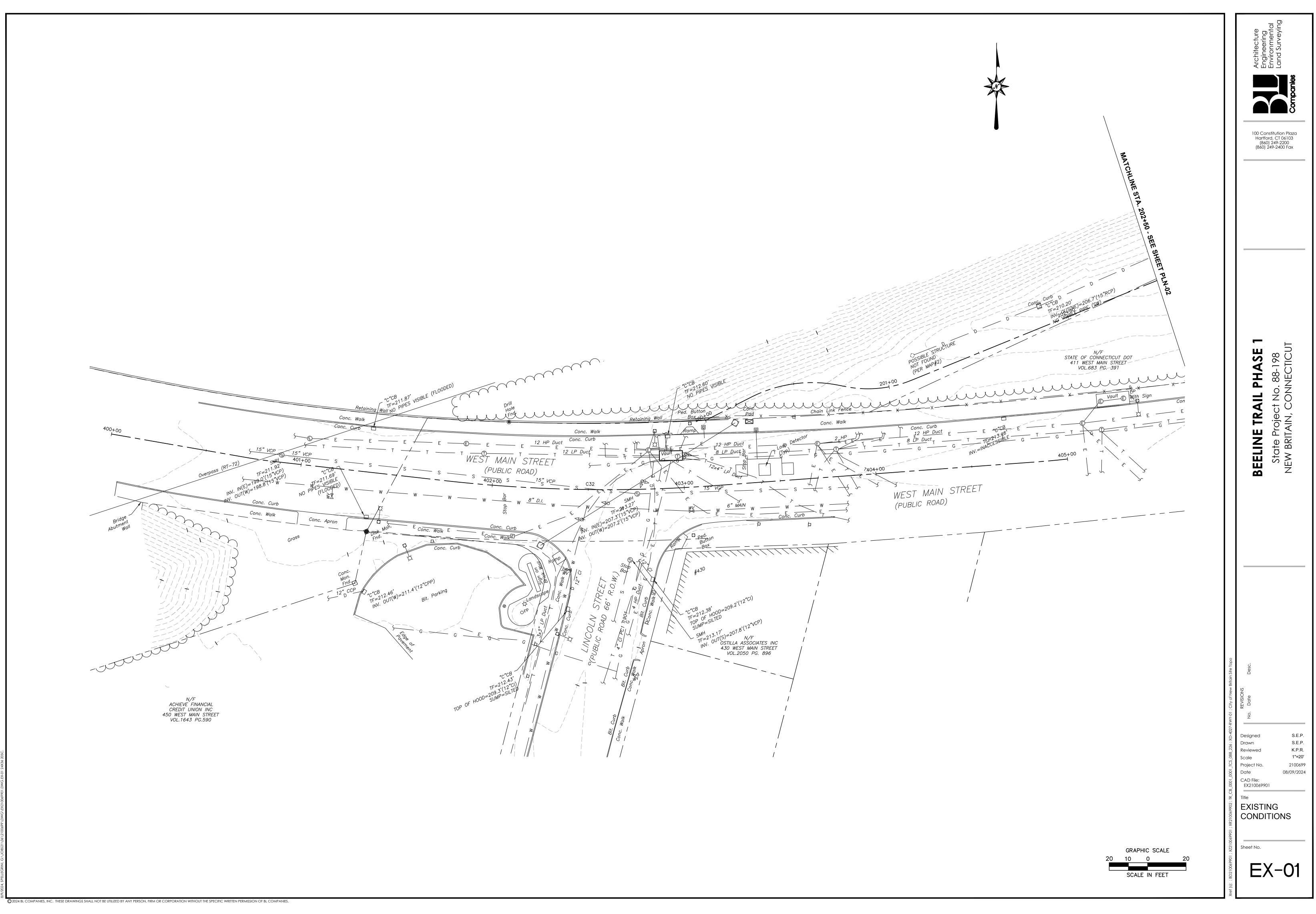
A POLICY ON GEOMETRIC DESIGN OF HIGHWAYS AND STREETS 2018 EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) AASHTO 2012 GUIDE FOR THE DEVELOPMENT OF BICYCLE FACILITIES

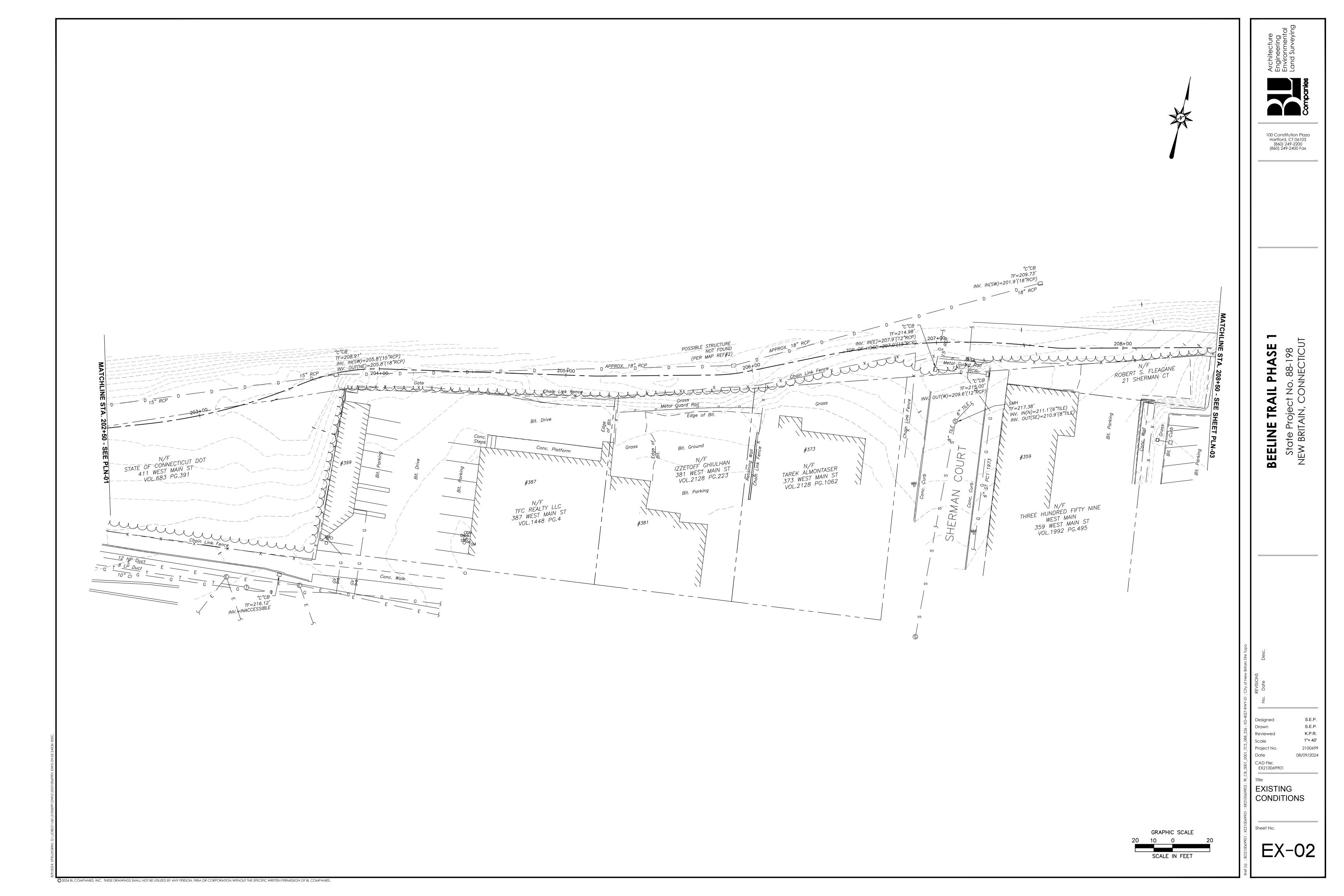
2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS TRAIL TO BE MAINTAINED BY THE CITY OF NEW BRITAIN.

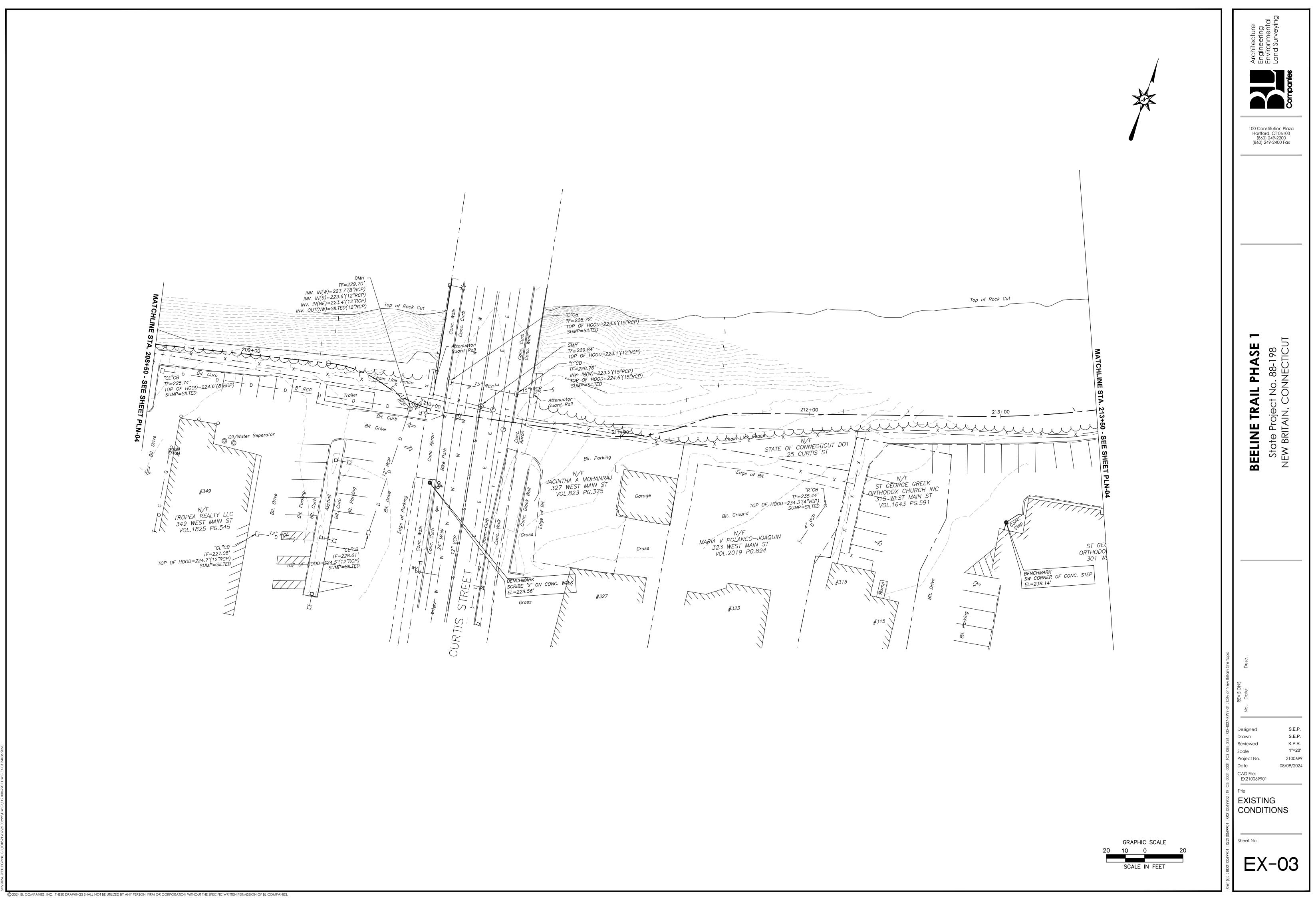
### DATES ISSUE DATE: AUGUST 9TH, 2024

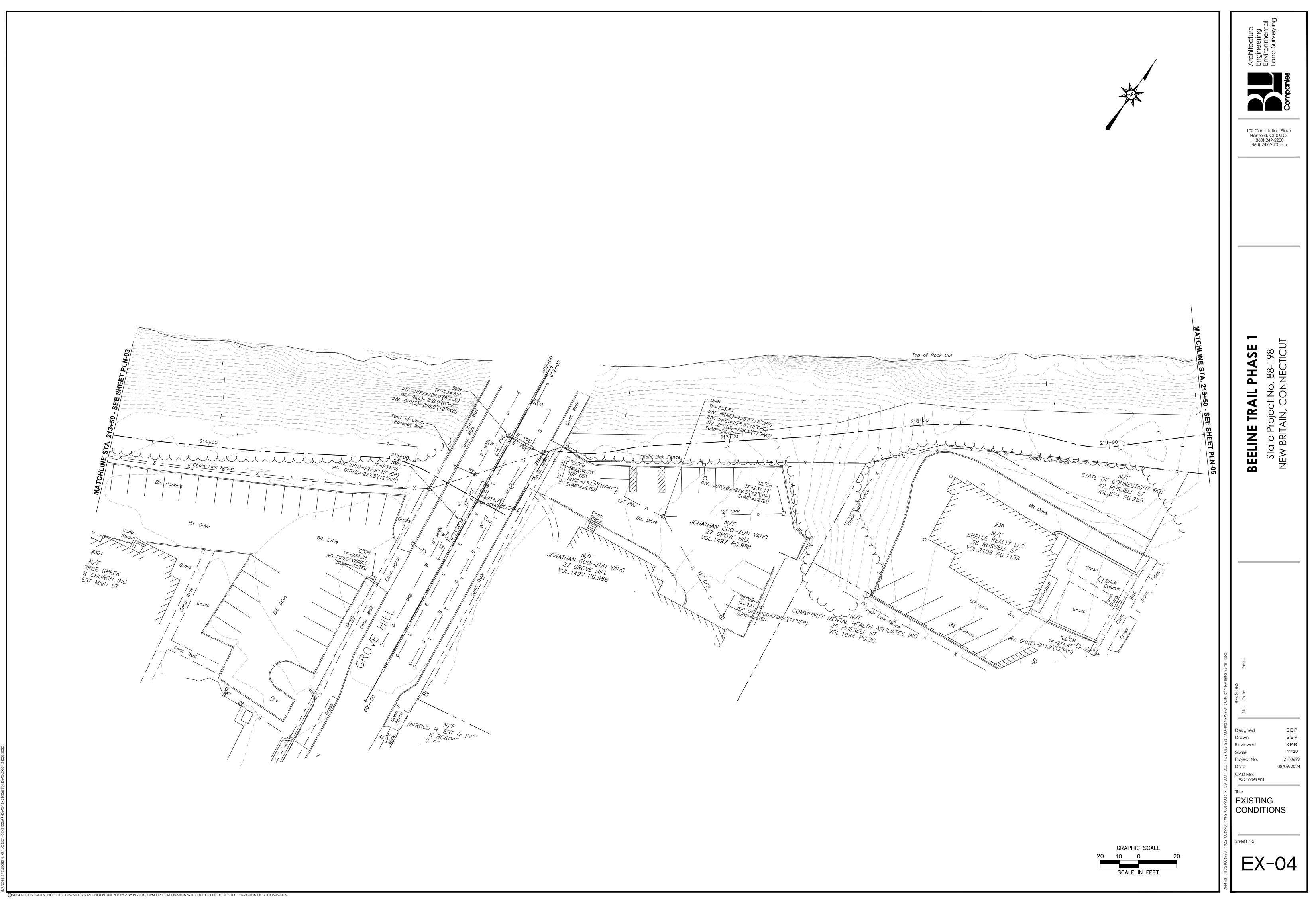


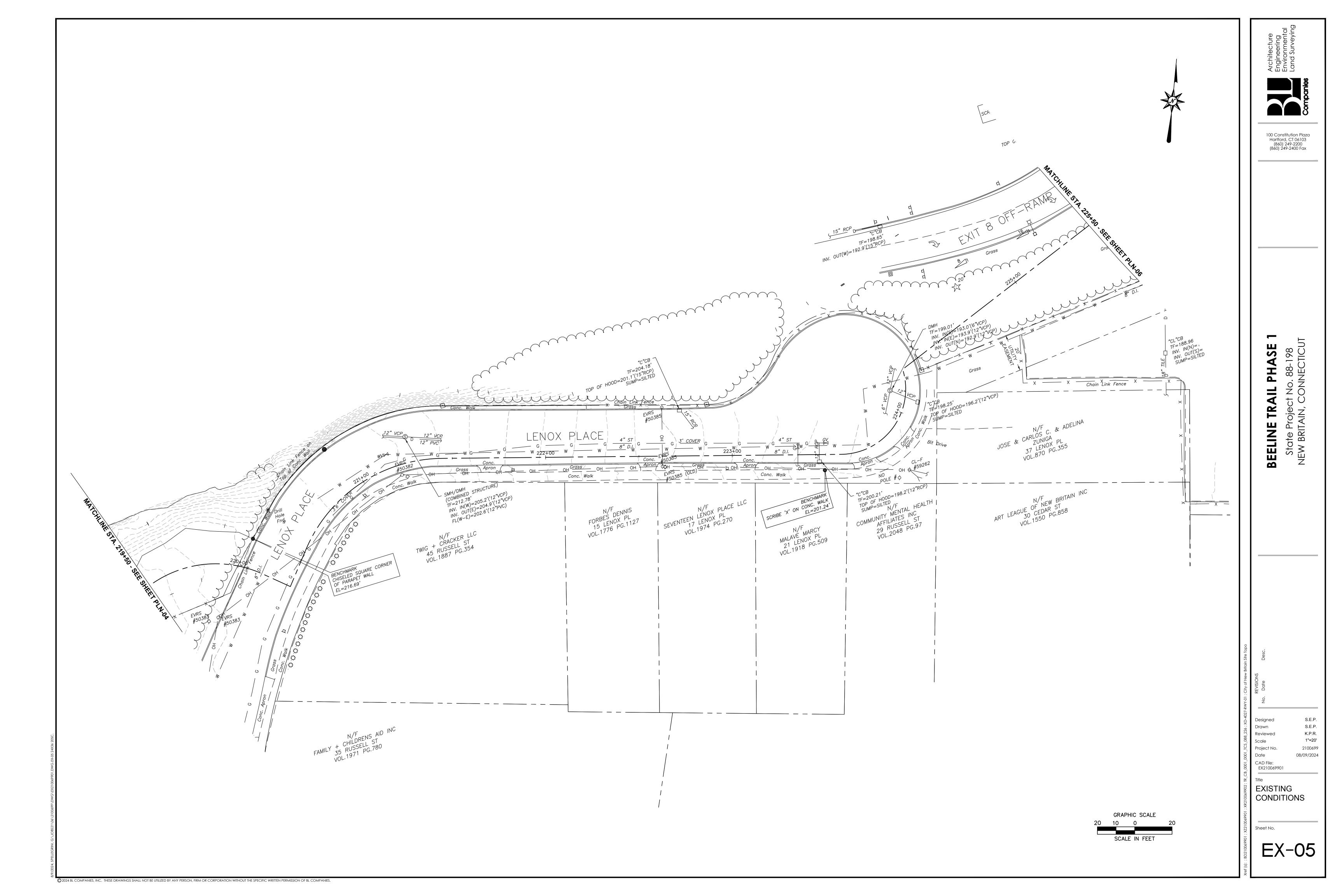


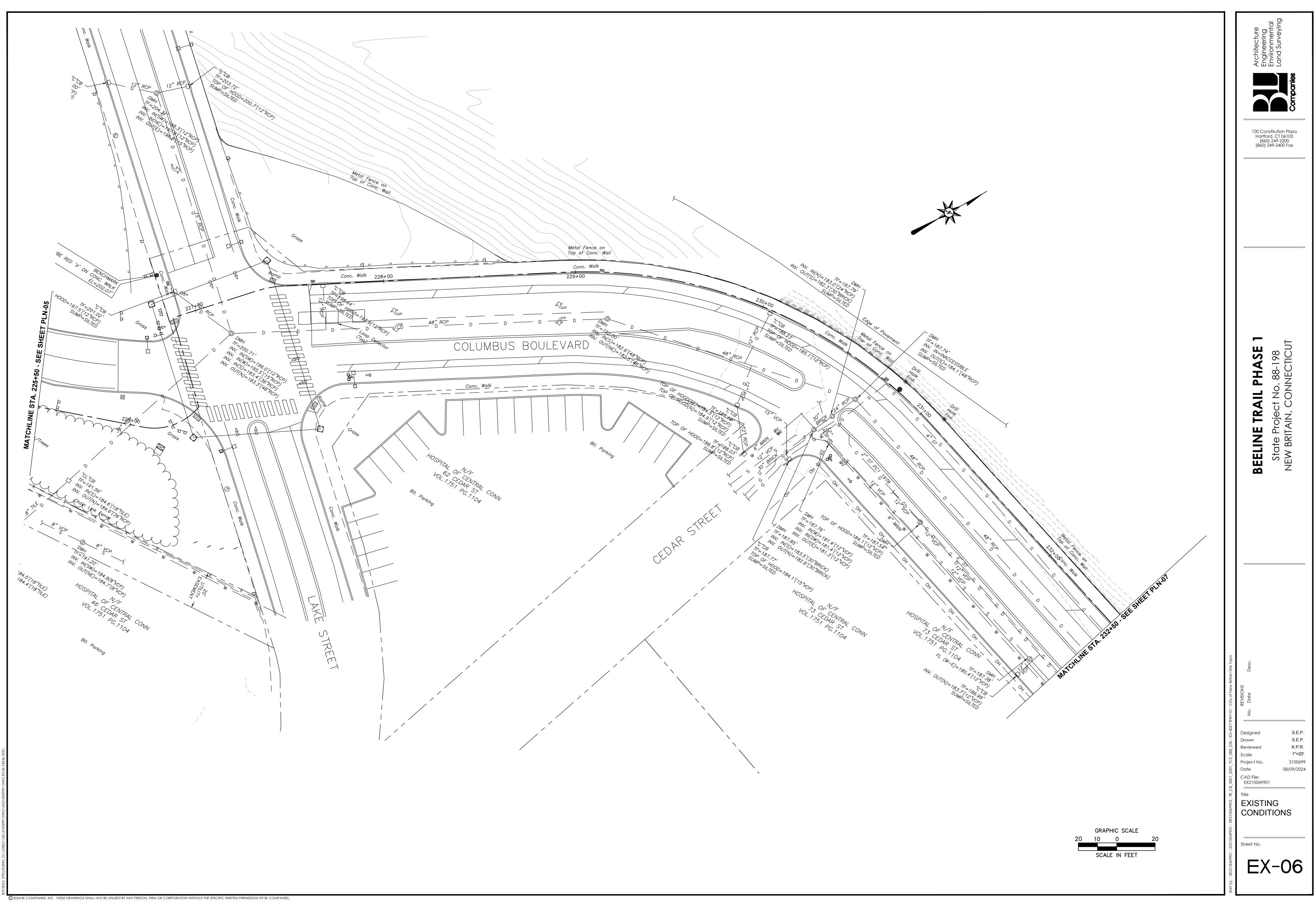


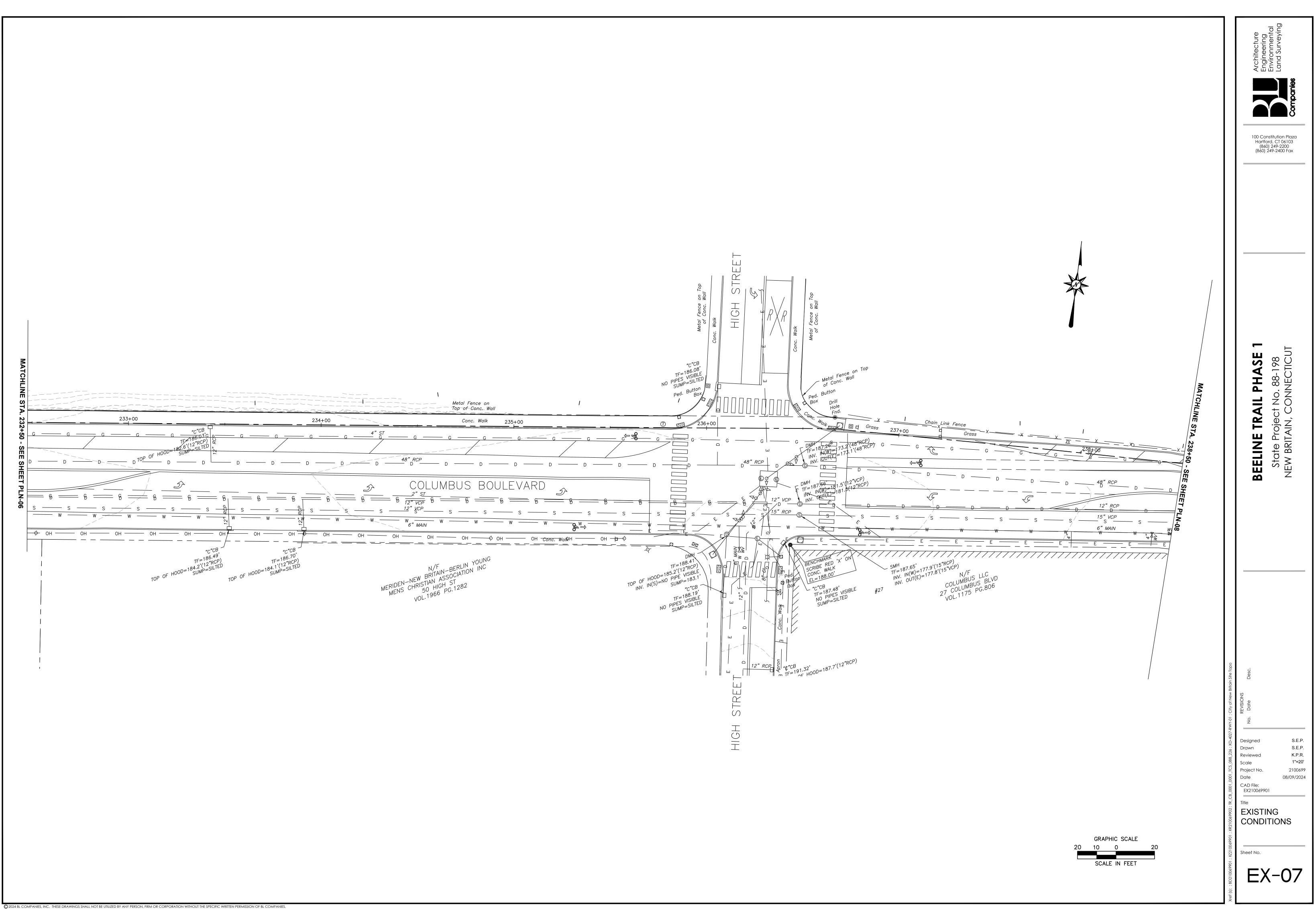






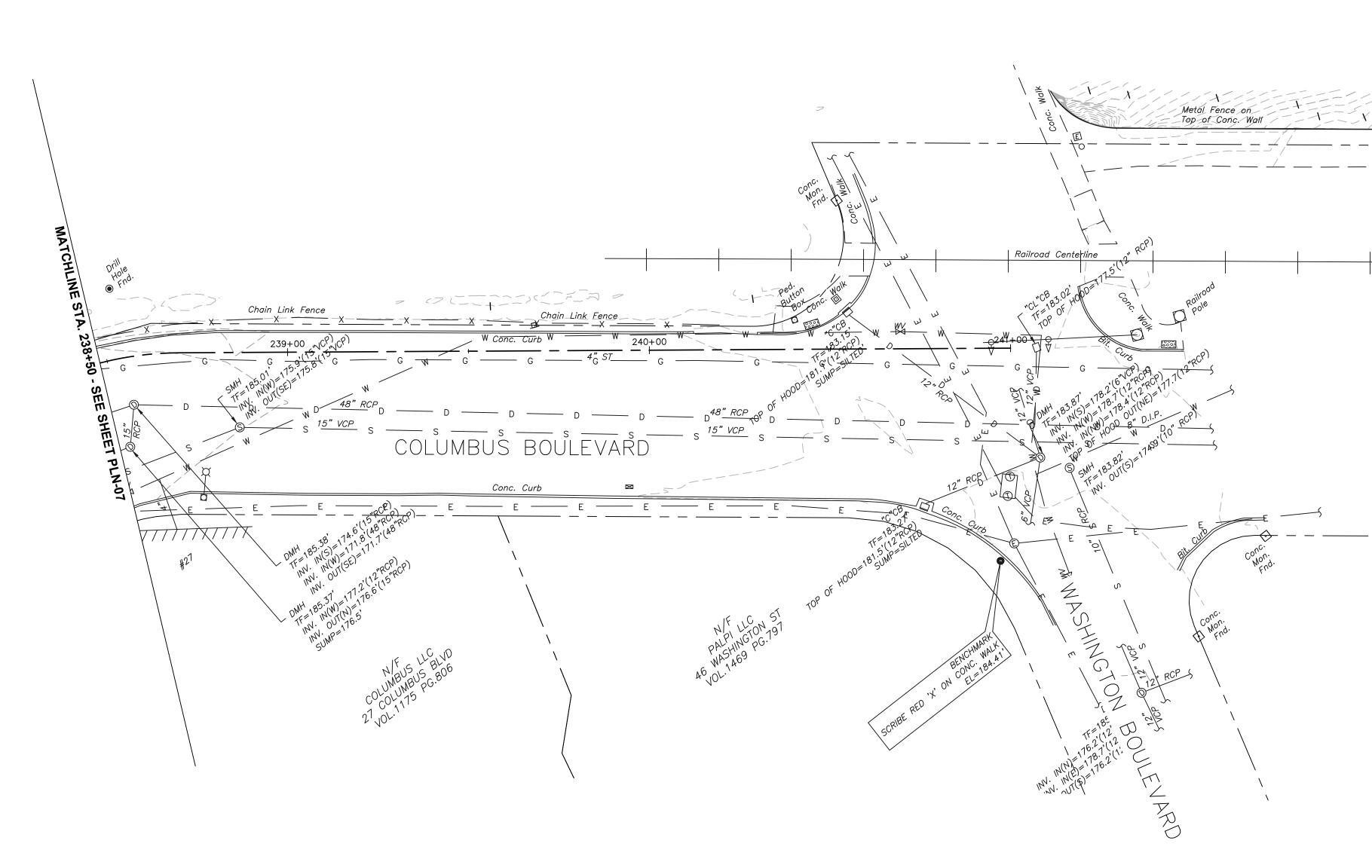




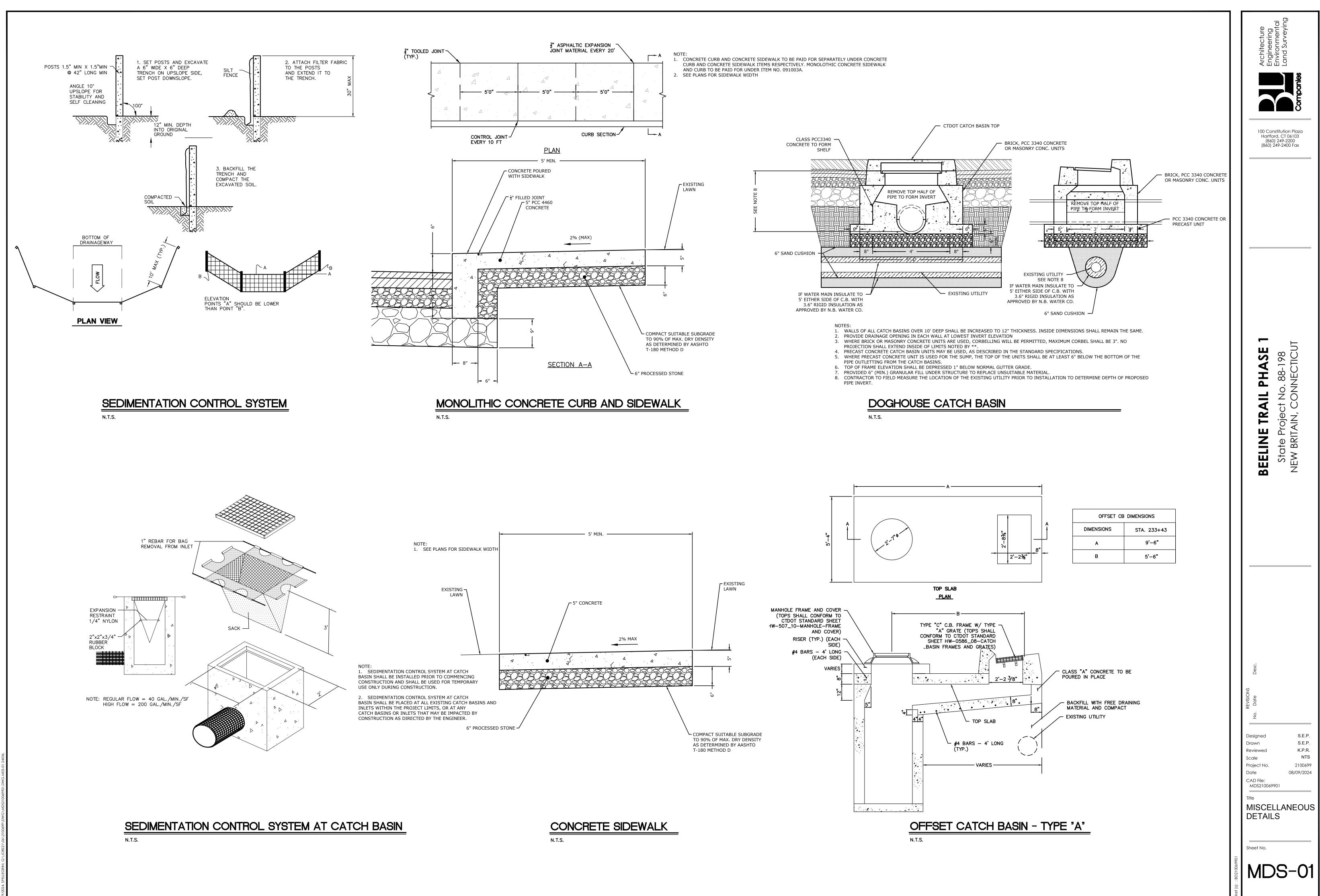


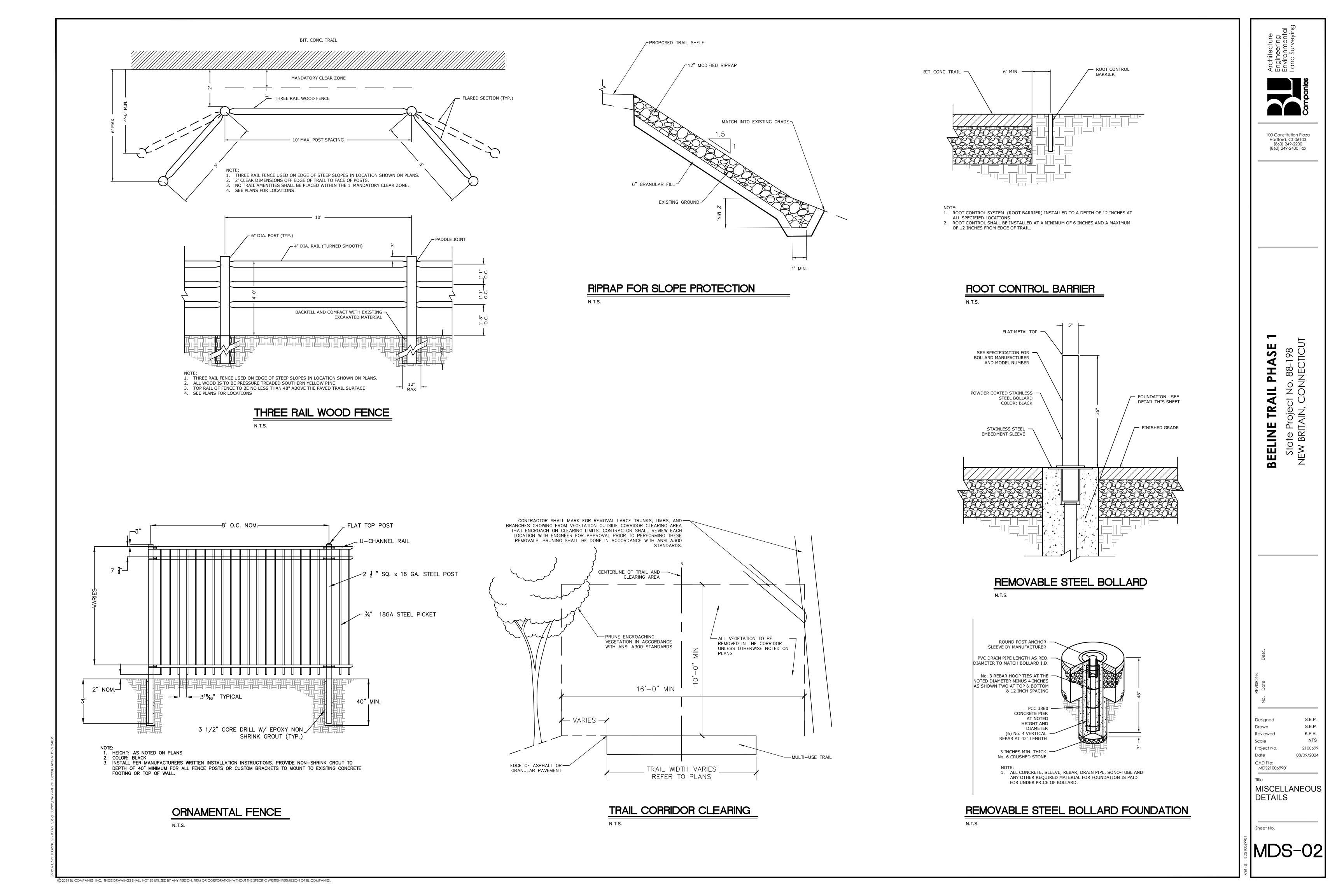
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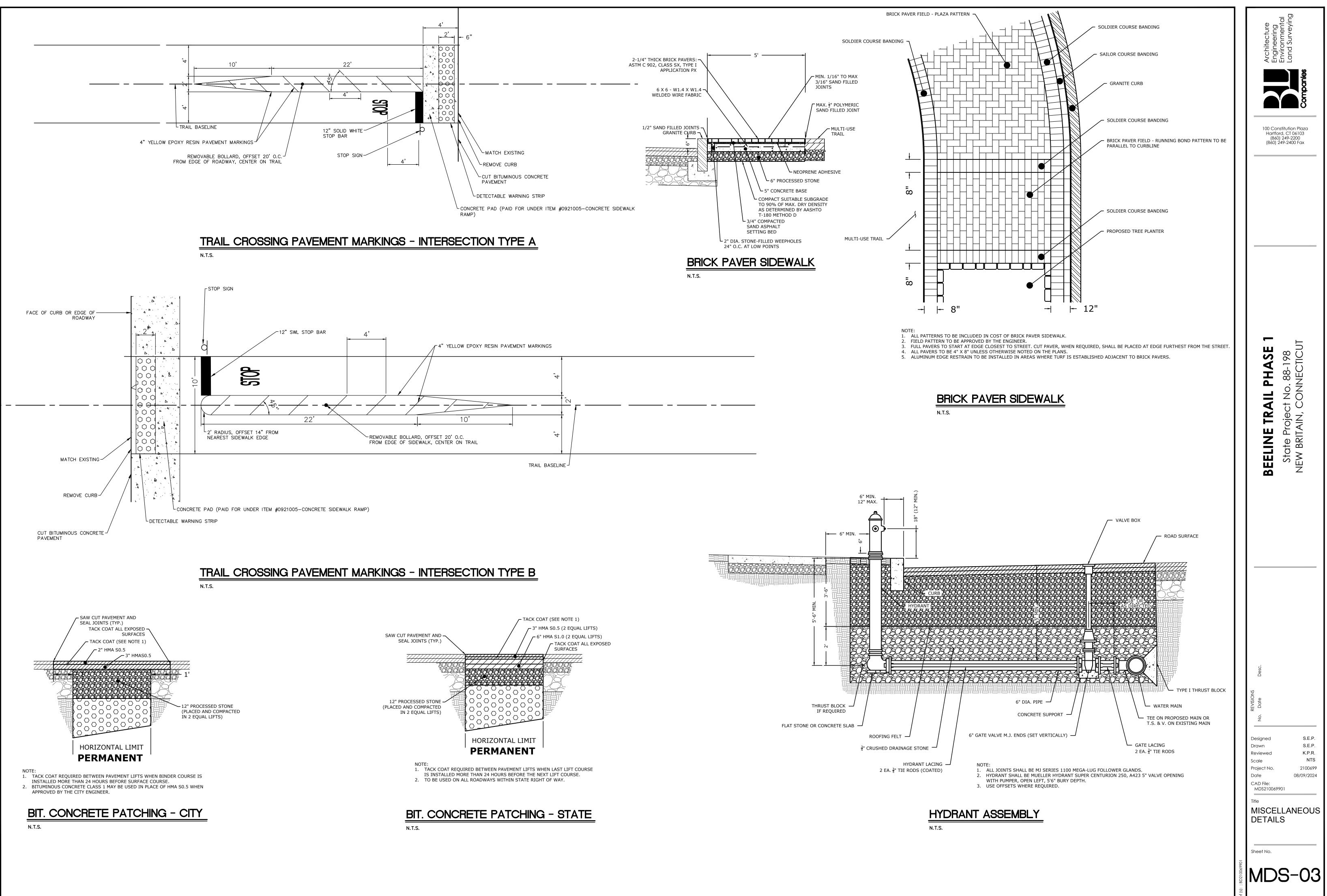
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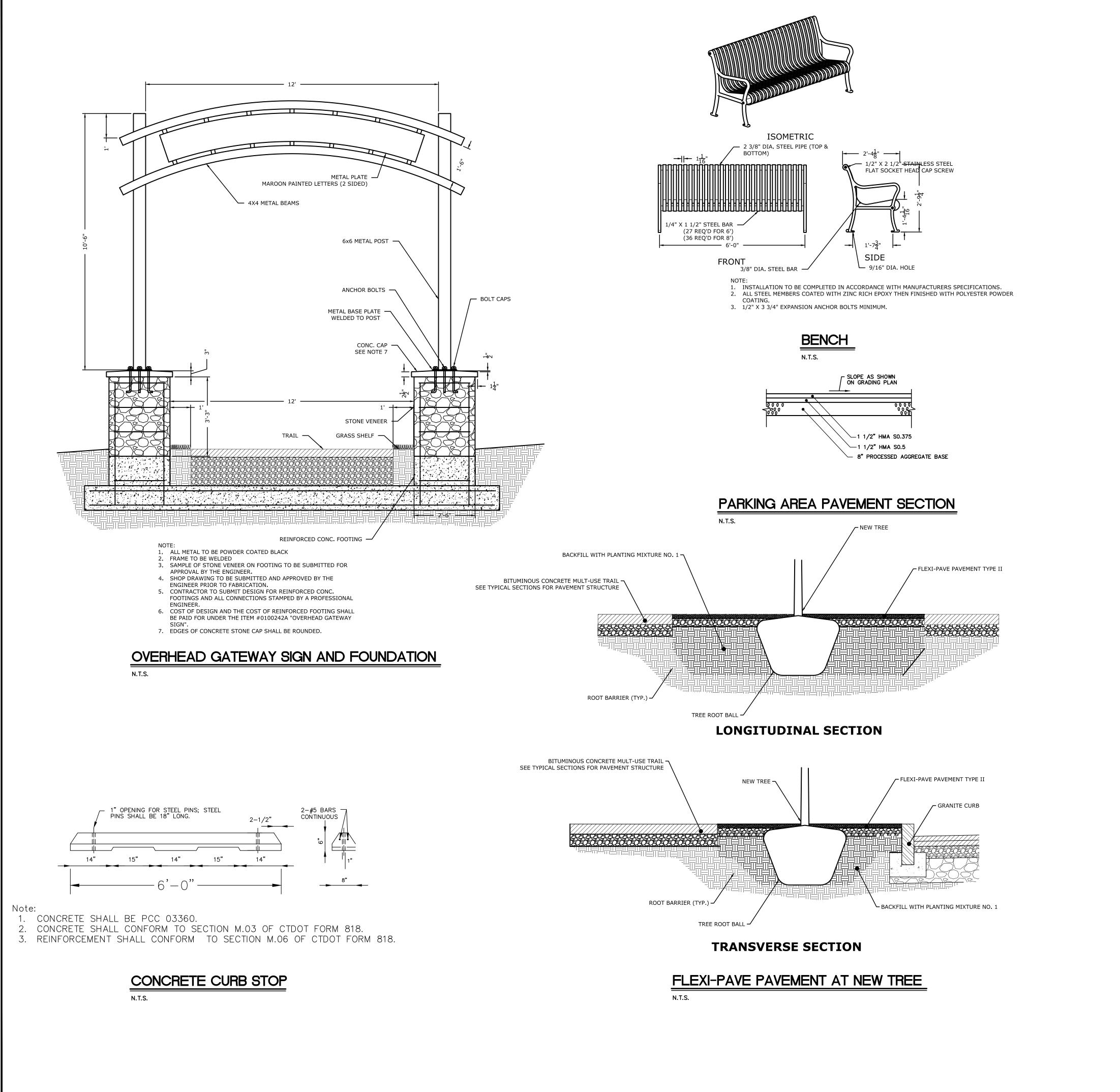


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	<b>BEELINE TRAIL PHASE 1</b> State Project No. 88-198 NEW BRITAIN, CONNECTICUT
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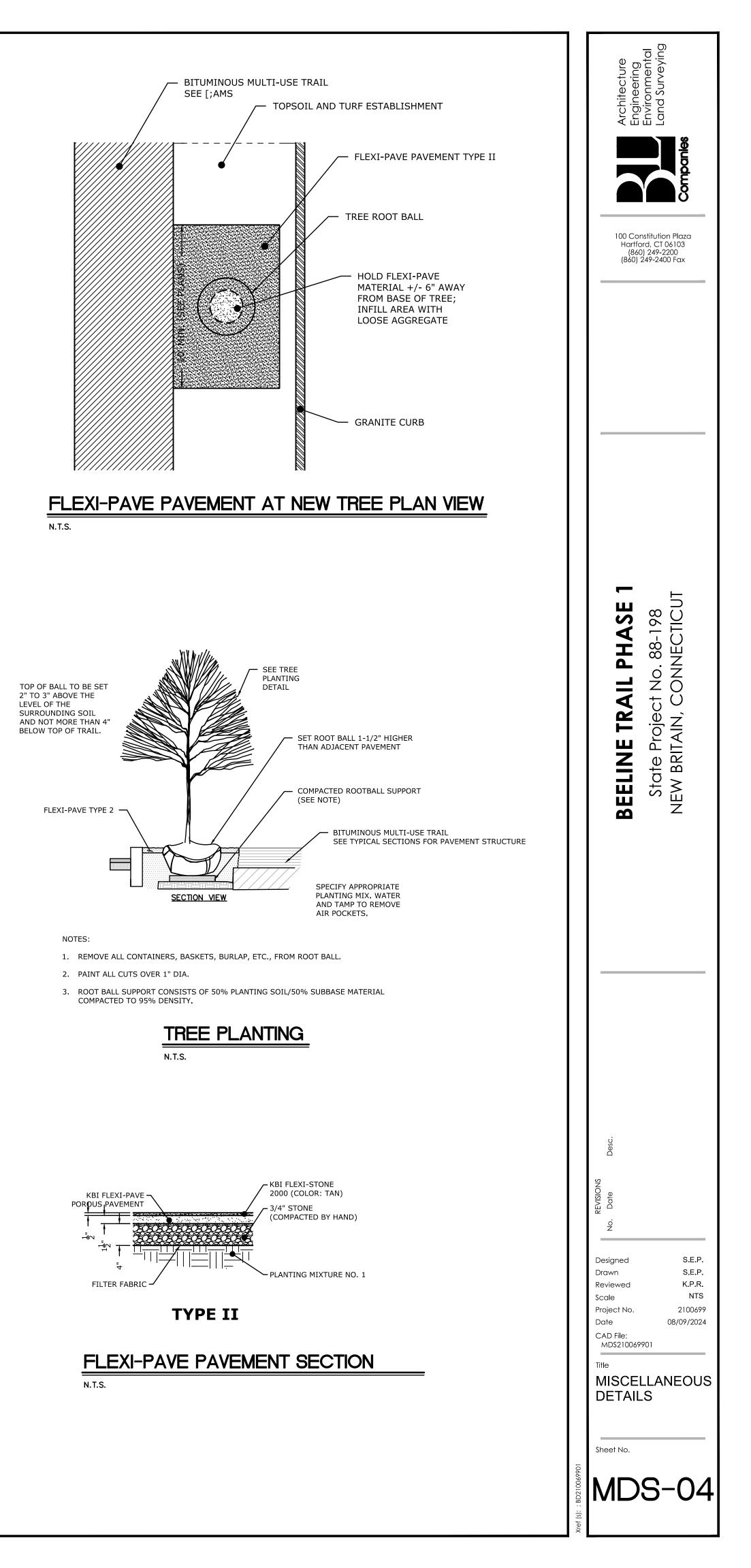


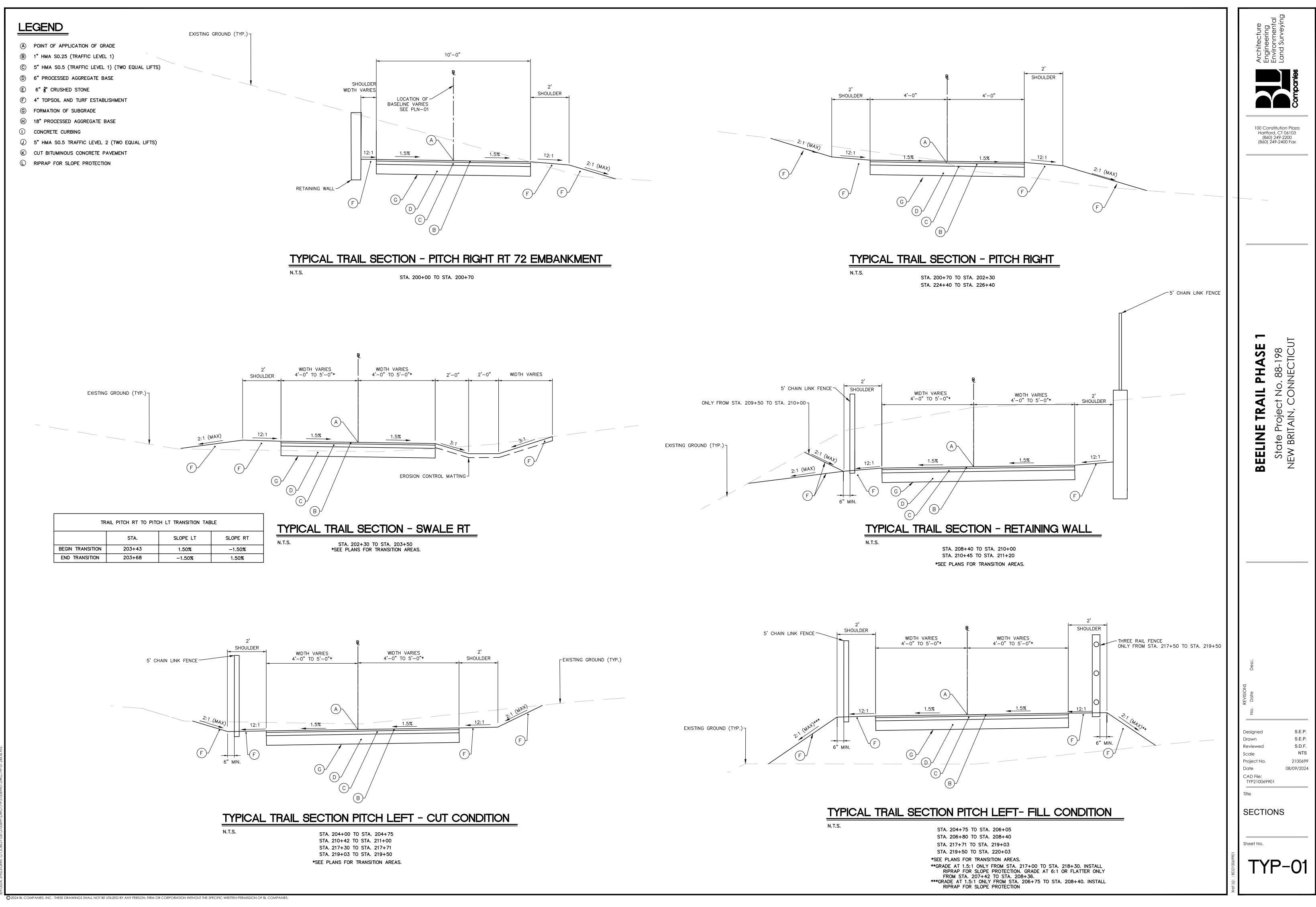


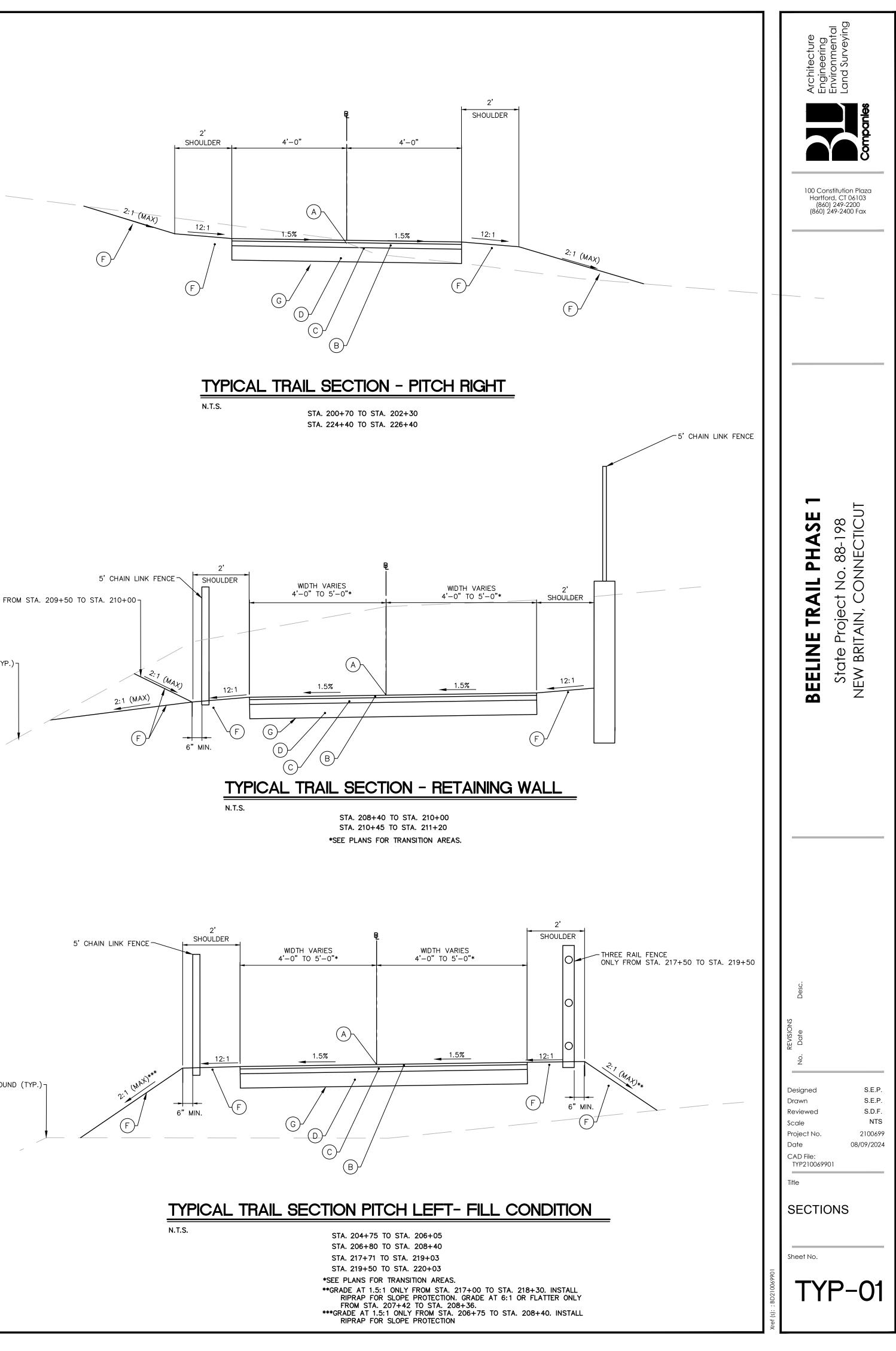


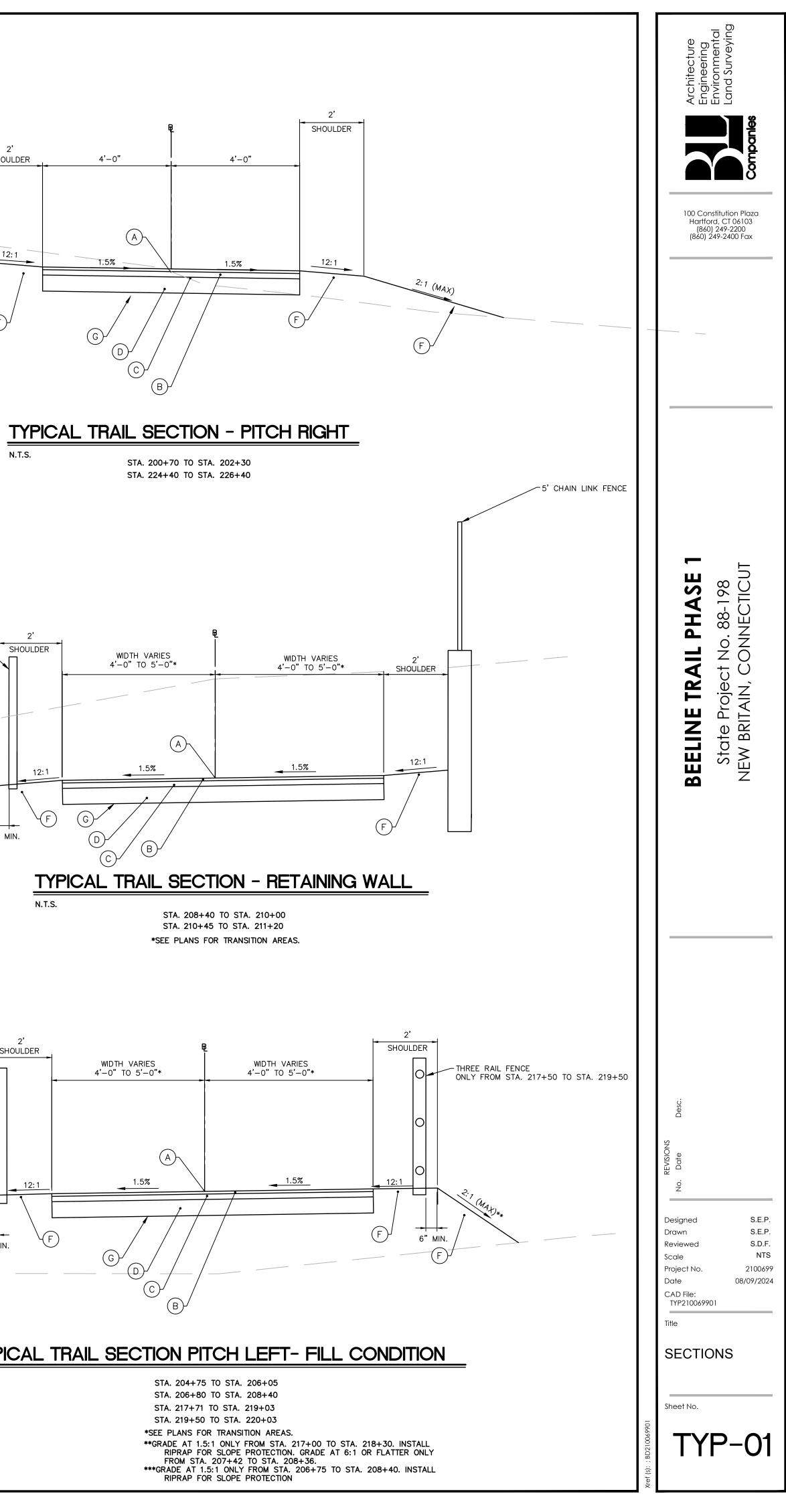


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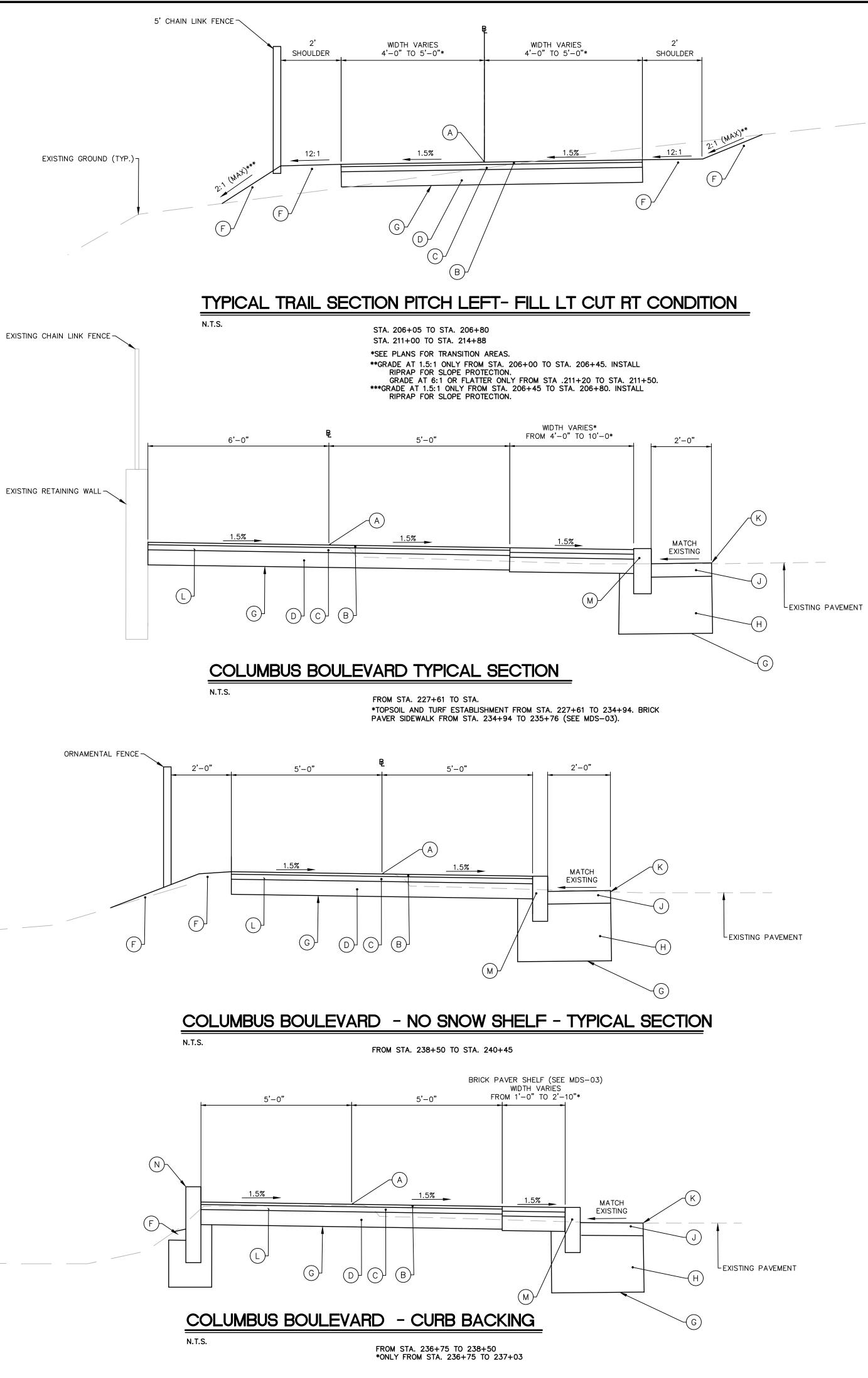




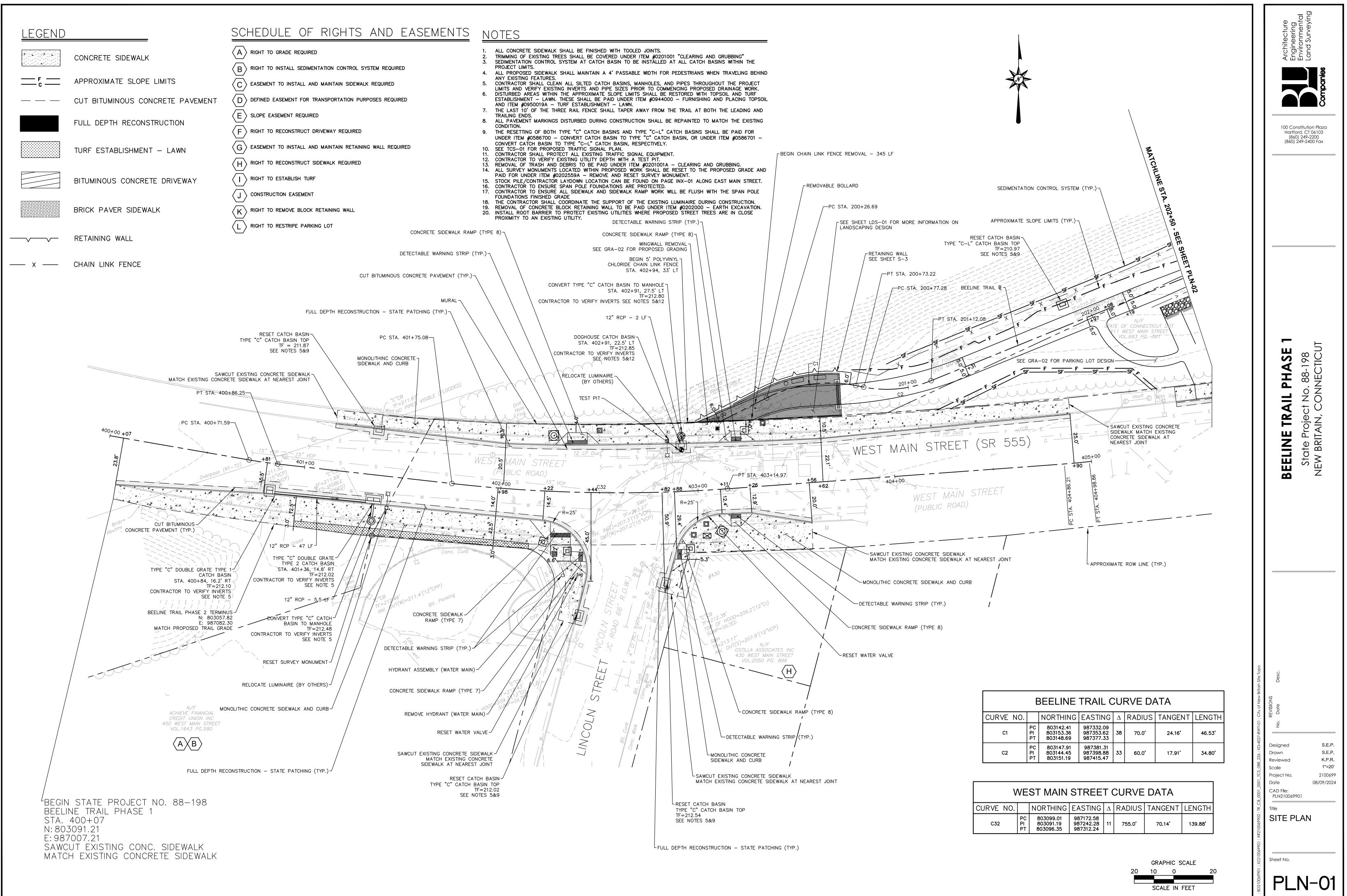
### LEGEND

- A POINT OF APPLICATION OF GRADE
- (B) 1" HMA S0.25 (TRAFFIC LEVEL 1)
- © 5" HMA SO.5 TRAFFIC LEVEL 2 (TWO EQUAL LIFTS)
- (D) 6" PROCESSED AGGREGATE BASE
- E 6" PROCESSED AGGREGATE
- $\bigcirc$  4" TOPSOIL AND TURF ESTABLISHMENT LAWN
- (G) FORMATION OF SUBGRADE
- (H) 18" PROCESSED AGGREGATE BASE
- () 6" GRANITE CURBING
- $\bigcirc$  5" HMA S0.5 TRAFFIC LEVEL 2 (TWO EQUAL LIFTS)
- CUT BITUMINOUS CONCRETE PAVEMENT
- () REMOVE EXISTING CONCRETE SIDEWALK AND CURB
- M 4" GRANITE CURBING
- (N) CONCRETE CURBING

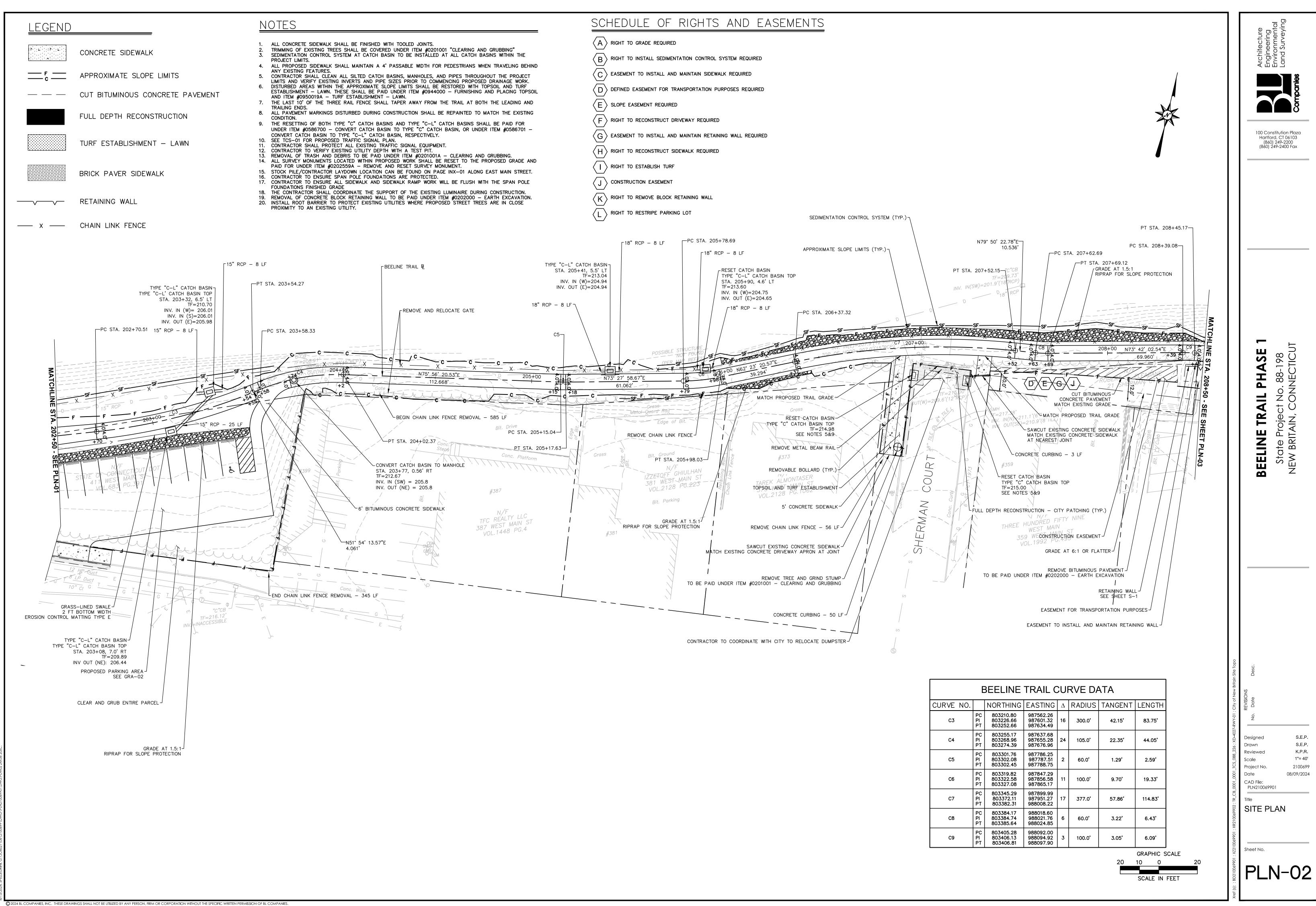
EXISTING CHAIN LINK FENCE-

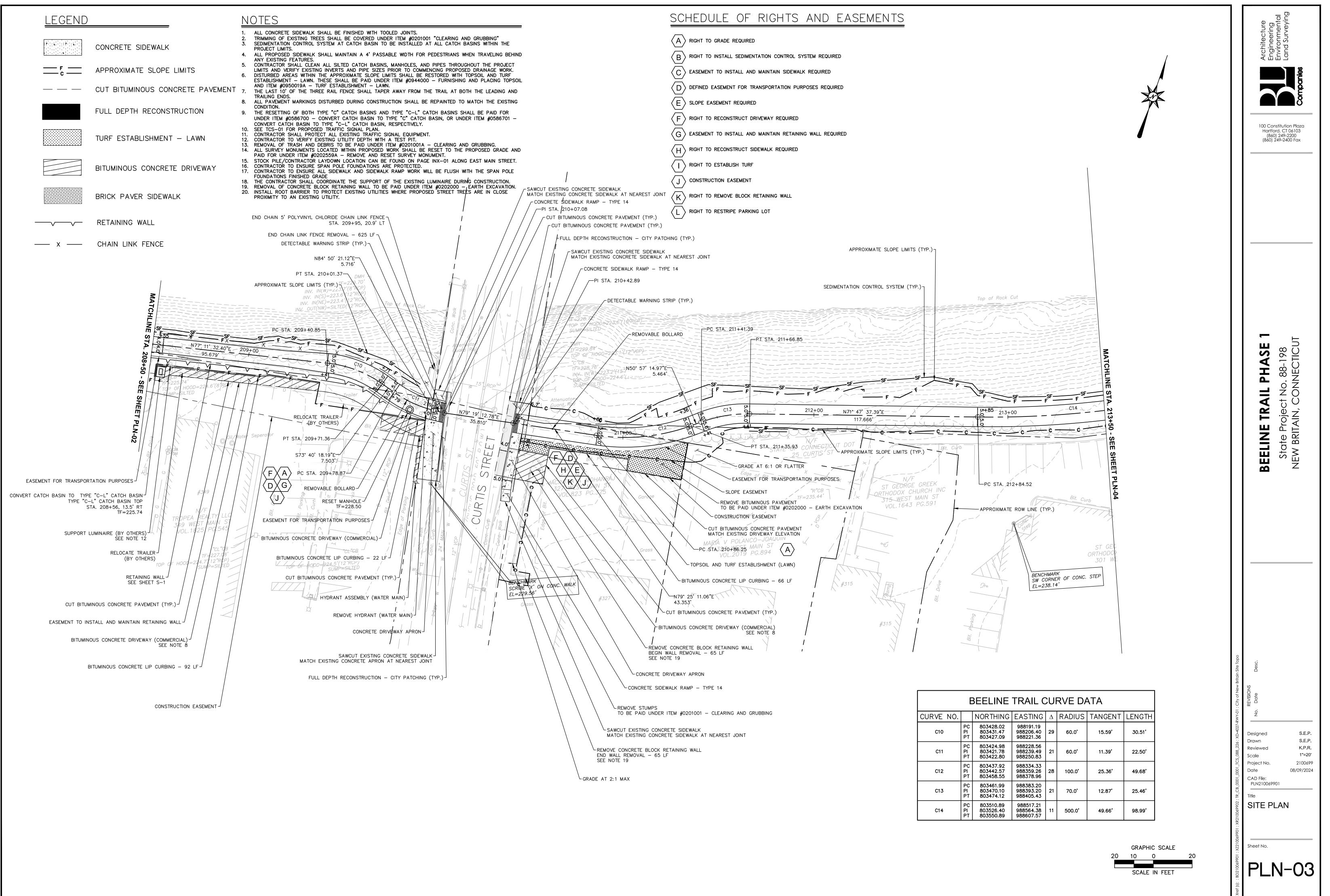


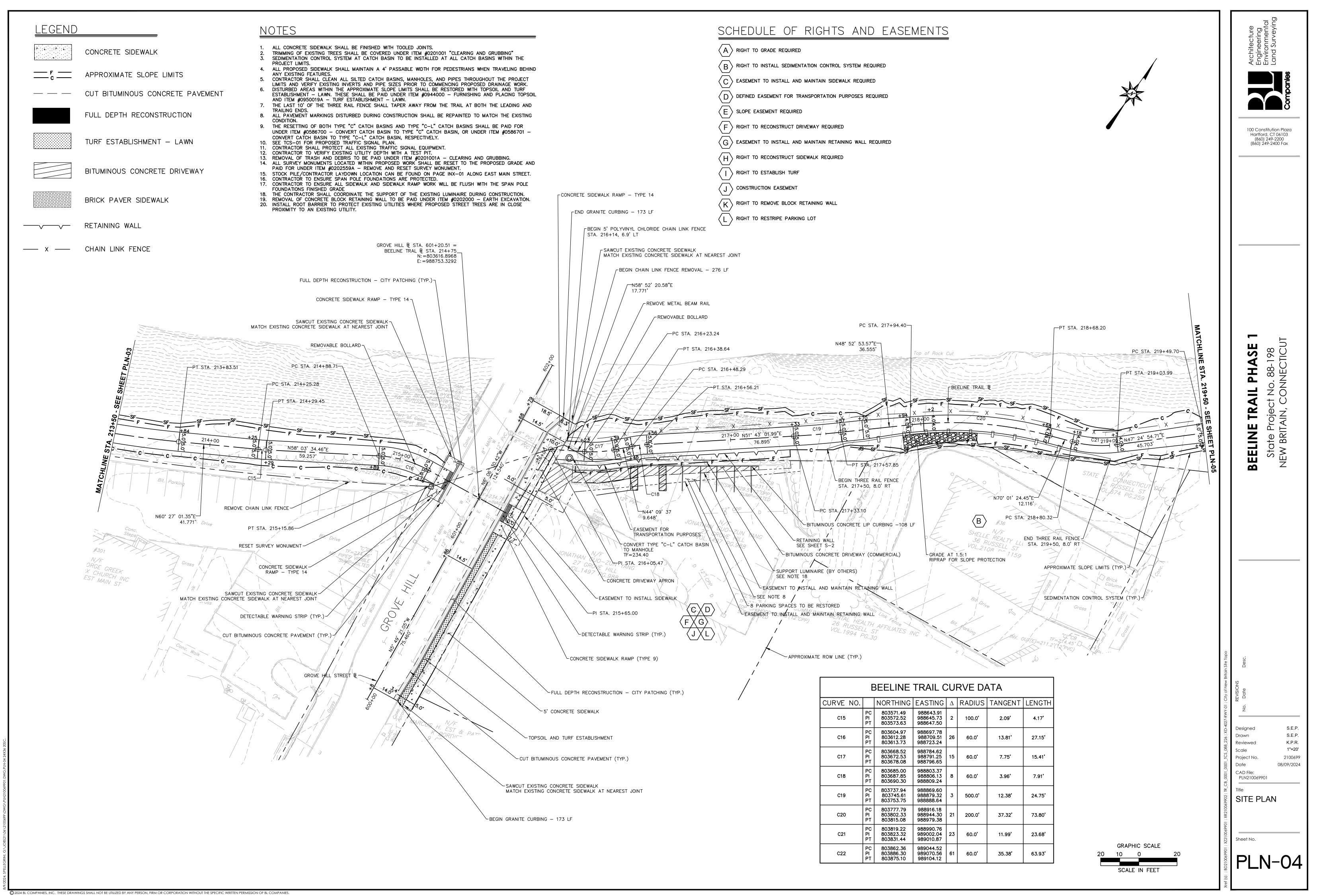
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<b>BEELINE TRAIL PHASE 1</b> State Project No. 88-198 NEW BRITAIN, CONNECTICUT
INTERPORTIONS

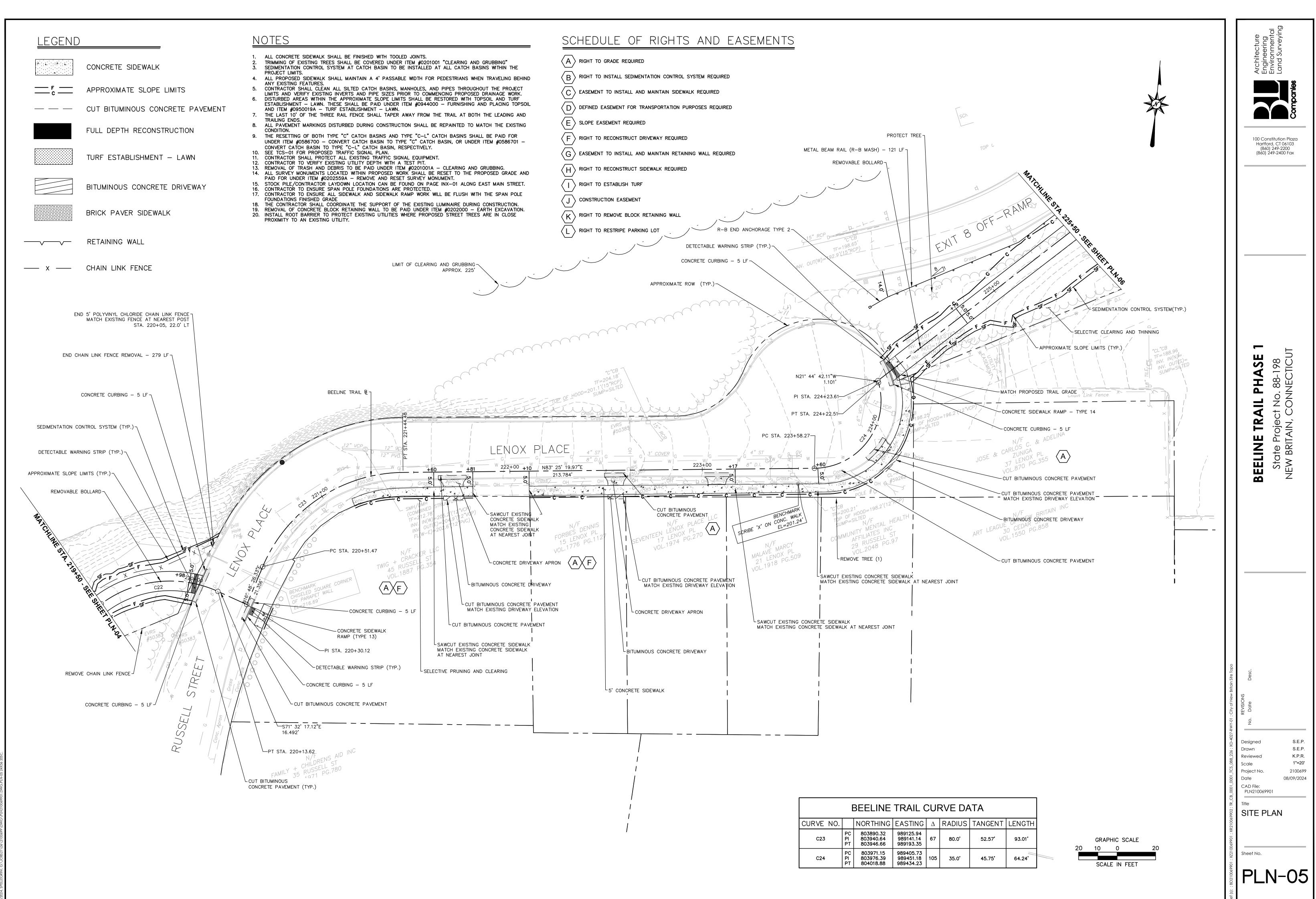


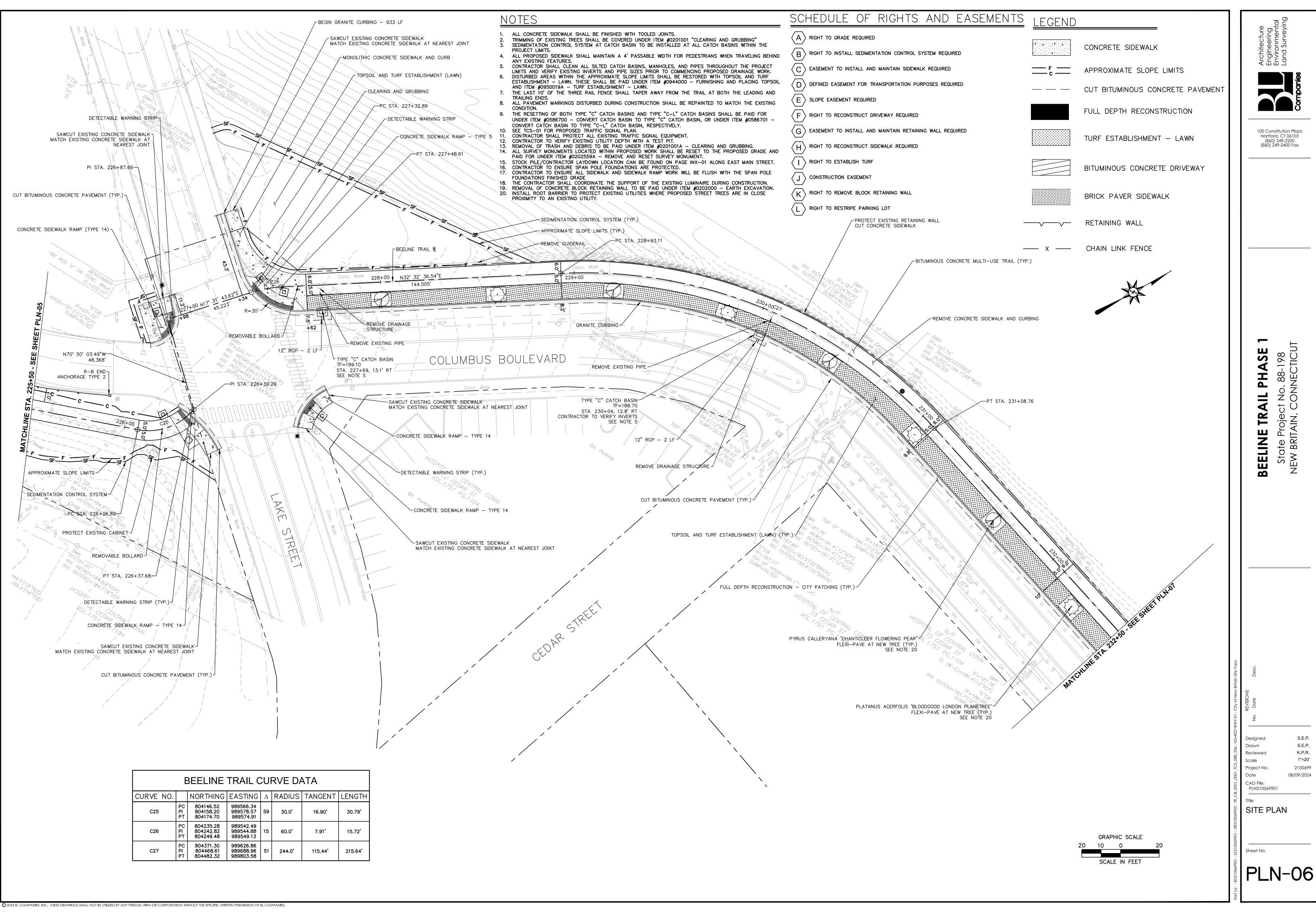
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CURVE NO.		NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
C32	PC PI PT	803099.01 803091.19 803096.35	987172.58 987242.28 987312.24	11	755.0'	70.14'	139.88'



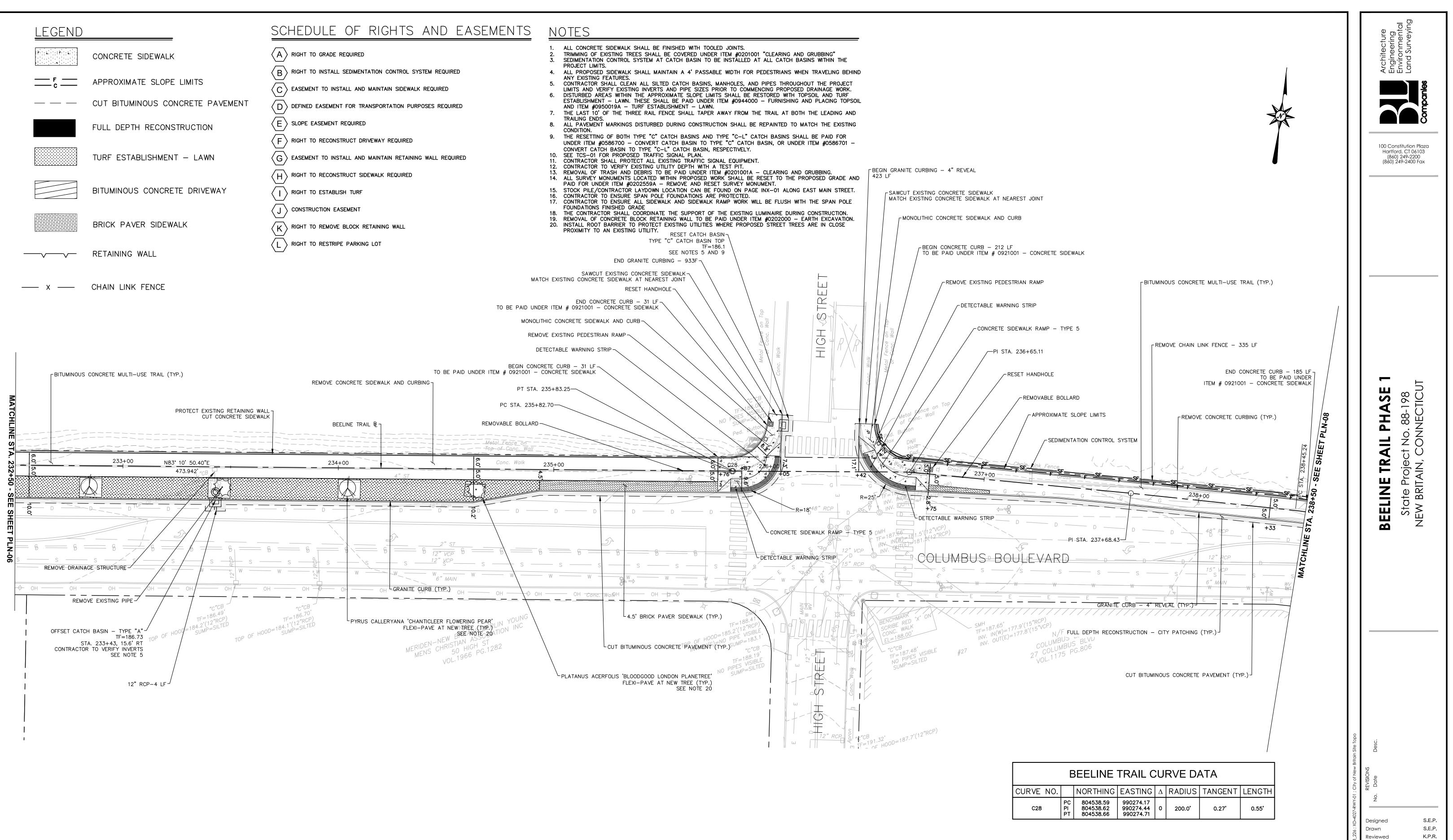


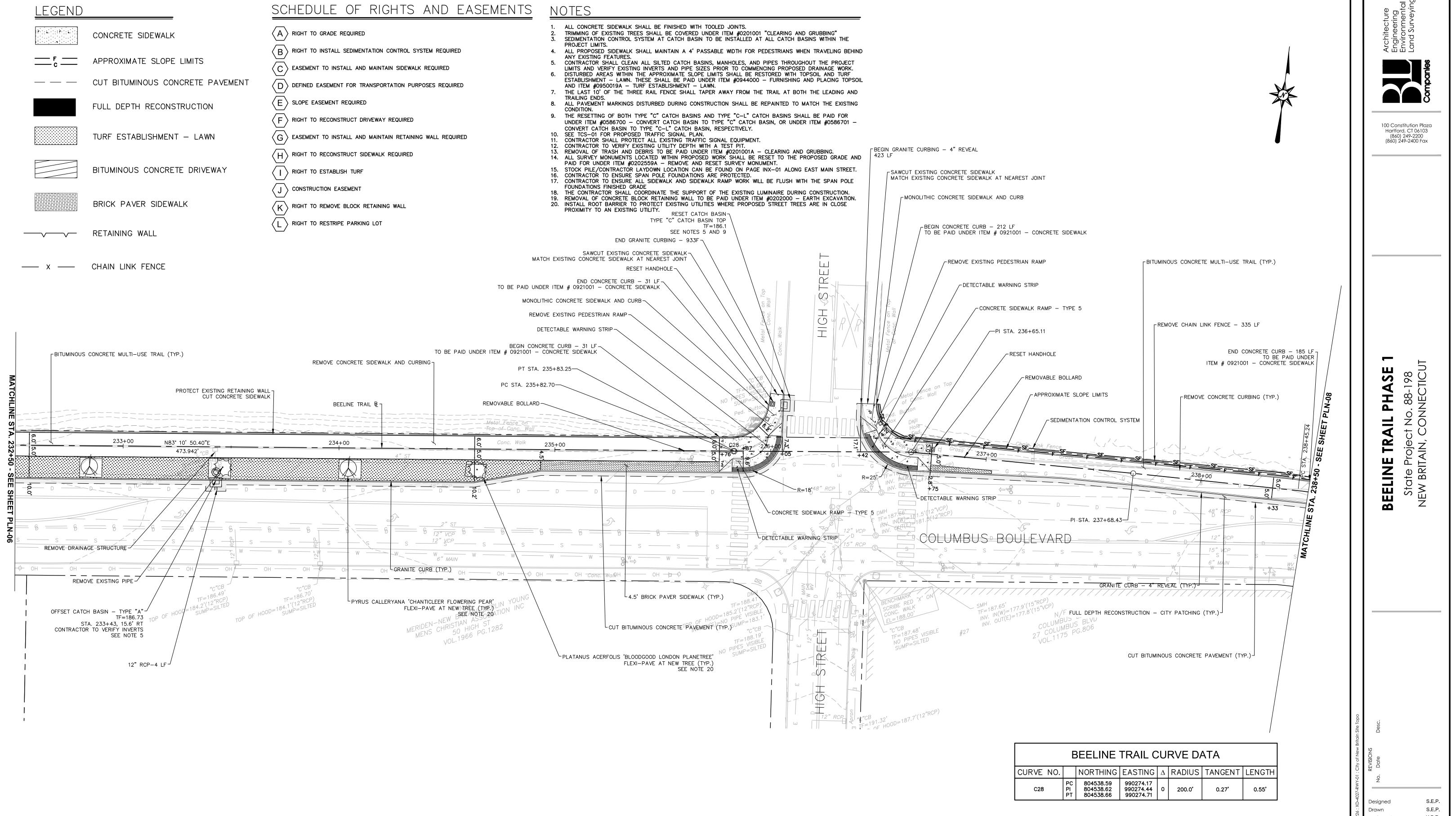






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CURVE NO.		NORTHING	EASTING	Δ	RADIUS	TANGENT	LENGTH
C25	PC PI PT	804146.52 804158.20 804174.70	989566.34 989578.57 989574.91	59	30.0'	16.90'	30.79'
C26	PC PI PT	804235.28 804242.82 804249.48	989542.49 989544.88 989549.13	15	60.0'	7.91'	15.72'
C27	PC PI PT	804371.30 804468.61 804482.32	989626.86 989688.96 989803.58	51	244.0'	115.44'	215.64'





	GRAPHIC SCA	LE
20	10 0	20
	SCALE IN FEE	ET

1"=20'

2100699

08/09/2024

Scale

Date CAD File: PLN210069901

Title

Sheet No.

SITE PLAN

PLN-07

Project No.

<u>LEGEND</u>		SCHEDULE OF RIGHTS AND EASEN
	CONCRETE SIDEWALK	A RIGHT TO GRADE REQUIRED
F	APPROXIMATE SLOPE LIMITS	$\langle B \rangle$ RIGHT TO INSTALL SEDIMENTATION CONTROL SYSTEM REQUIRED
	CUT BITUMINOUS CONCRETE PAVEMENT	$\langle C \rangle$ EASEMENT TO INSTALL AND MAINTAIN SIDEWALK REQUIRED
	FULL DEPTH RECONSTRUCTION	$\langle D \rangle$ defined easement for transportation purposes required $\langle E \rangle$ slope easement required
	FULL DEFTH RECONSTRUCTION	$\langle F \rangle$ RIGHT TO RECONSTRUCT DRIVEWAY REQUIRED
	TURF ESTABLISHMENT - LAWN	$\langle \overline{G} \rangle$ easement to install and maintain retaining wall required
	BITUMINOUS CONCRETE DRIVEWAY	H RIGHT TO RECONSTRUCT SIDEWALK REQUIRED H RIGHT TO ESTABLISH TURF
	BRICK PAVER SIDEWALK	$\left< J \right>$ construction easement $\left< K \right>$ right to remove block retaining wall
		L RIGHT TO RESTRIPE PARKING LOT
V	RETAINING WALL	BEGIN 6' ORNAMENTAL FENCE
x	CHAIN LINK FENCE	REMOVE CONCRETE CURBING
		PT STA. 238+69.78 PAID FOR UNDER ITEM N
		REMOVE CHAIN LINK FENCE - 335 LF
	Z	CAPPROXIMATE SLOPE LIMITS
	TCHL	
	MATCHLINE	$\left  \begin{array}{c} H_{\text{Fn}d} \\ \\ \\ \\ \\ \\ \\ \\$
		The chain Link Fence 3F - x + SF - x - SF - x
		$\begin{array}{c} 239+00 \\ \hline \\ 6 \\ \hline \\ \hline$
		$+70^{M} +870^{M} +870^{M} +870^{M} +870^{M} +870^{M} +870^{M} +870^{M} +870^{M} +870^{M} +100^{M} +1$
		PLN-9
		114.6',(15', 120',
		$\begin{array}{c} +2^{7} \\ +2^{7} \\ +12^{7} \\ +$
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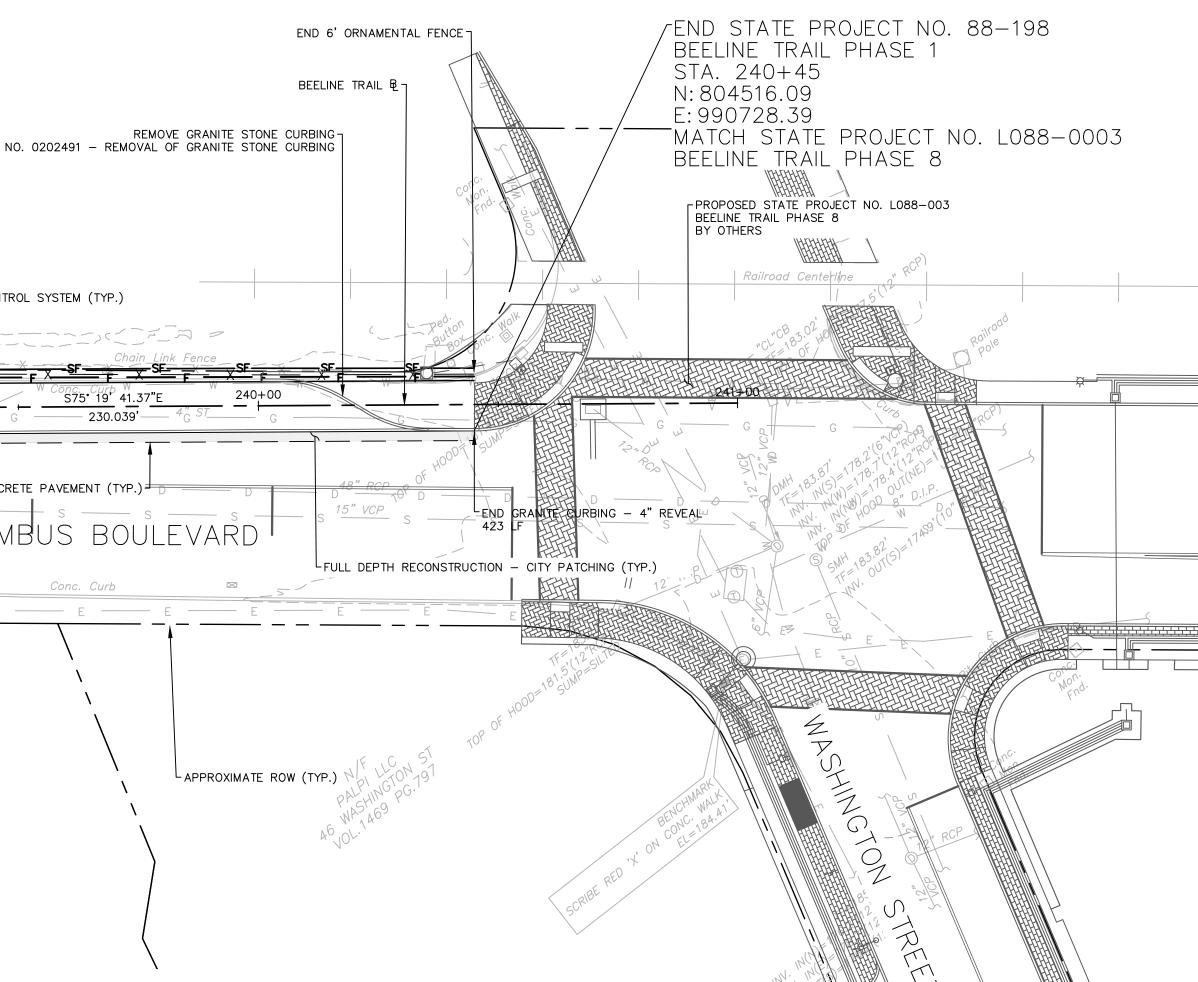
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### NOTES

- ALL CONCRETE SIDEWALK SHALL BE FINISHED WITH TOOLED JOINTS.
- TRIMMING OF EXISTING TREES SHALL BE COVERED UNDER ITEM #0201001 "CLEARING AND GRUBBING" SEDIMENTATION CONTROL SYSTEM AT CATCH BASIN TO BE INSTALLED AT ALL CATCH BASINS WITHIN THE
- PROJECT LIMITS.

- ALL PROPOSED SIDEWALK SHALL MAINTAIN A 4' PASSABLE WIDTH FOR PEDESTRIANS WHEN TRAVELING BEHIND ANY EXISTING FEATURES.
   CONTRACTOR SHALL CLEAN ALL SILTED CATCH BASINS, MANHOLES, AND PIPES THROUGHOUT THE PROJECT LIMITS AND VERIFY EXISTING INVERTS AND PIPE SIZES PRIOR TO COMMENCING PROPOSED DRAINAGE WORK.
   DISTURBED AREAS WITHIN THE APPROXIMATE SLOPE LIMITS SHALL BE RESTORED WITH TOPSOIL AND TURF ESTABLISHMENT LAWN. THESE SHALL BE PAID UNDER ITEM #0944000 FURNISHING AND PLACING TOPSOIL AND ITEM #0950019A TURF ESTABLISHMENT LAWN.
   THE LAST 10' OF THE THREE RAIL FENCE SHALL TAPER AWAY FROM THE TRAIL AT BOTH THE LEADING AND TRAILING FNDS
- TRAILING ENDS.
- 8. ALL PAVEMENT MARKINGS DISTURBED DURING CONSTRUCTION SHALL BE REPAINTED TO MATCH THE EXISTING CONDITION.
- 9. THE RESETTING OF BOTH TYPE "C" CATCH BASINS AND TYPE "C-L" CATCH BASINS SHALL BE PAID FOR UNDER ITEM #0586700 CONVERT CATCH BASIN TO TYPE "C" CATCH BASIN, OR UNDER ITEM #0586701 -UNDER ITEM #0586700 - CONVERT CATCH BASIN TO TYPE "C" CATCH BASIN, OR UNDER ITEM #0586701 - CONVERT CATCH BASIN TO TYPE "C-L" CATCH BASIN, RESPECTIVELY.
  SEE TCS-01 FOR PROPOSED TRAFFIC SIGNAL PLAN.
  CONTRACTOR SHALL PROTECT ALL EXISTING TRAFFIC SIGNAL EQUIPMENT.
  CONTRACTOR TO VERIFY EXISTING UTILITY DEPTH WITH A TEST PIT.
  REMOVAL OF TRASH AND DEBRIS TO BE PAID UNDER ITEM #0201001A - CLEARING AND GRUBBING.
  ALL SURVEY MONUMENTS LOCATED WITHIN PROPOSED WORK SHALL BE RESET TO THE PROPOSED GRADE AND PAID FOR UNDER ITEM #0202559A - REMOVE AND RESET SURVEY MONUMENT.
  STOCK PILE/CONTRACTOR LAYDOWN LOCATION CAN BE FOUND ON PAGE INX-01 ALONG EAST MAIN STREET.
  CONTRACTOR TO ENSURE SPAN POLE FOUNDATIONS ARE PROTECTED.
  CONTRACTOR TO ENSURE ALL SIDEWALK AND SIDEWALK RAMP WORK WILL BE FLUSH WITH THE SPAN POLE FOUNDATIONS FINISHED GRADE
  THE CONTRACTOR SHALL COORDINATE THE SUPPORT OF THE EXISTING LUMINAIRE DURING CONSTRUCTION.
  REMOVAL OF CONCRETE BLOCK RETAINING WALL TO BE PAID UNDER ITEM #0202000 - EARTH EXCAVATION.
  INSTALL ROOT BARRIER TO PROTECT EXISTING UTILITIES WHERE PROPOSED STREET TREES ARE IN CLOSE PROXIMITY TO AN EXISTING UTILITY.

- PROXIMITY TO AN EXISTING UTILITY.



	E	BEELINE	TRAIL C	CUI	RVE DA	47
CURVE NO.		NORTHING	EASTING	Δ	RADIUS	Т
C29	PC PI PT	804553.65 804553.93 804550.80	990536.03 990548.37 990560.32	16	88.0'	

		Printing       Printing         Printing       Pring         Printing
		<b>BEELINE TRAIL PHASE 1</b> State Project No. 88-198 NEW BRITAIN, CONNECTICUT
TA       ANGENT     LENGTH       12.35'     24.53'	GRAPHIC SCALE 20 10 0 20 SCALE IN FEET	Besigned S.E.P. Drawn S.E.P. Reviewed K.P.R. Scale 1*20 Project No. 2100699 Date 08/09/2024 CAD File: PLN210069901 Title SITE PLAN Sheet No. PLN0000727110000727110000727100007271000072710000727100007271000072710000720000727100000727100000000

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-205	BEG	N BEELINE TRAIL STATE PRO	PH. JEC
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<sup>230</sup>			

199+00

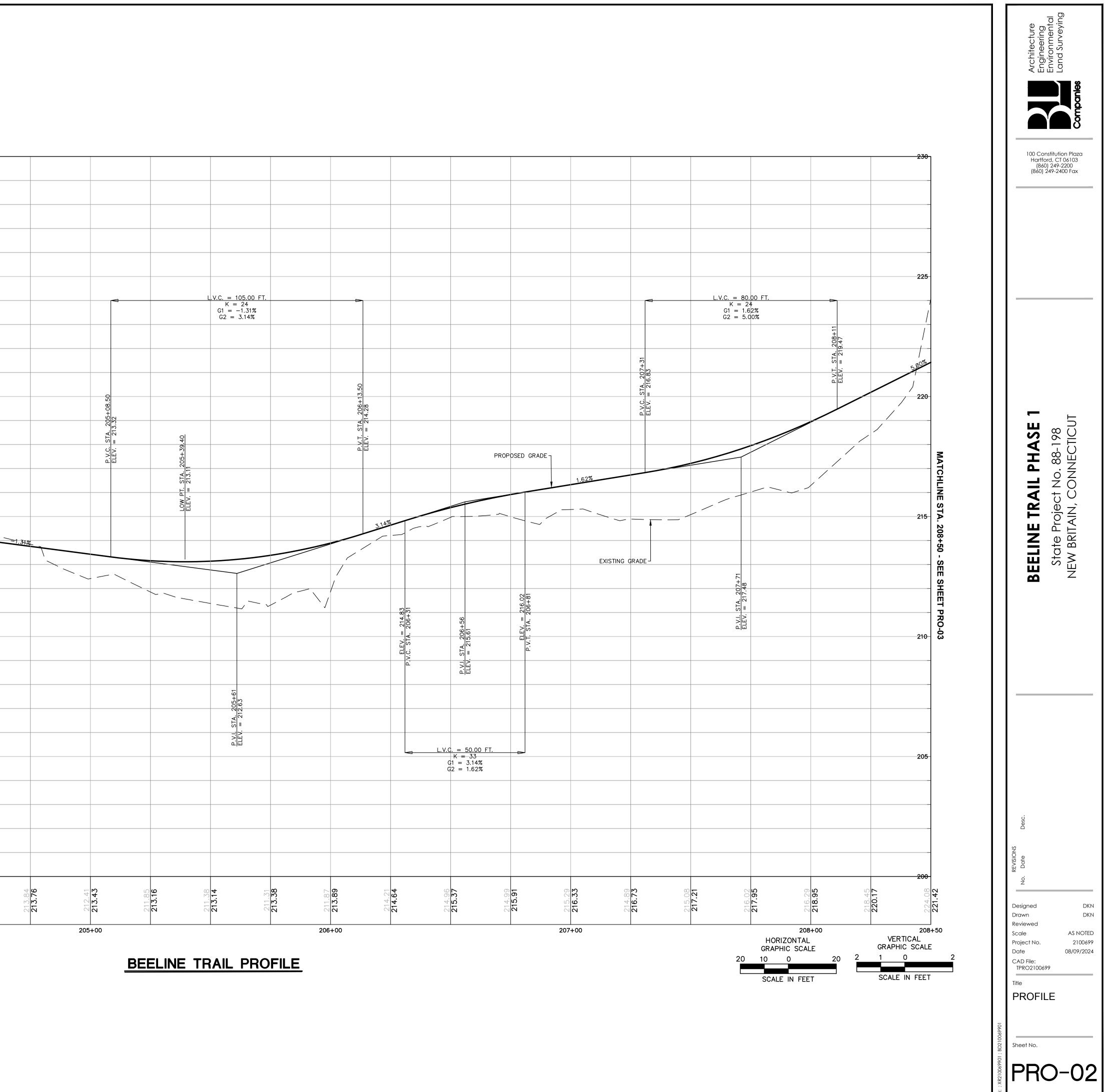
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### ·~\_\_\_\_ - \ PROPOSED GRADE ~--- $\searrow$ A.90% -+.60% 24 HIGH PT. ELEV. = ELEV. = 214.60 $\therefore ELEV. = 214.60$ $\therefore ELEV. = 2004.60$ $\therefore C. STA. 200+70$ <u>= 213.73</u> 201+20 <u>200</u> EXISTING GRADE " STJ. 200-15.00 20 <u>P.V.I. ST/</u> ELEV. = 200-14.13 P.V.I. ELEV. L.V.C. = 50.00 FTK = 8 G1 = 4.90%G2 = -1.60% $\begin{array}{rcl} \text{L.V.C.} &= 50.00 & \text{FT.} \\ \text{K} &= 354562 \\ \text{G1} &= -1.60\% \\ \text{G2} &= -1.60\% \end{array}$ PHASE 1 PROFILE JECT NO. 88–198 STA. 200+00 MATCH EXISTING 04 -|N 200+00 201+00 202+00

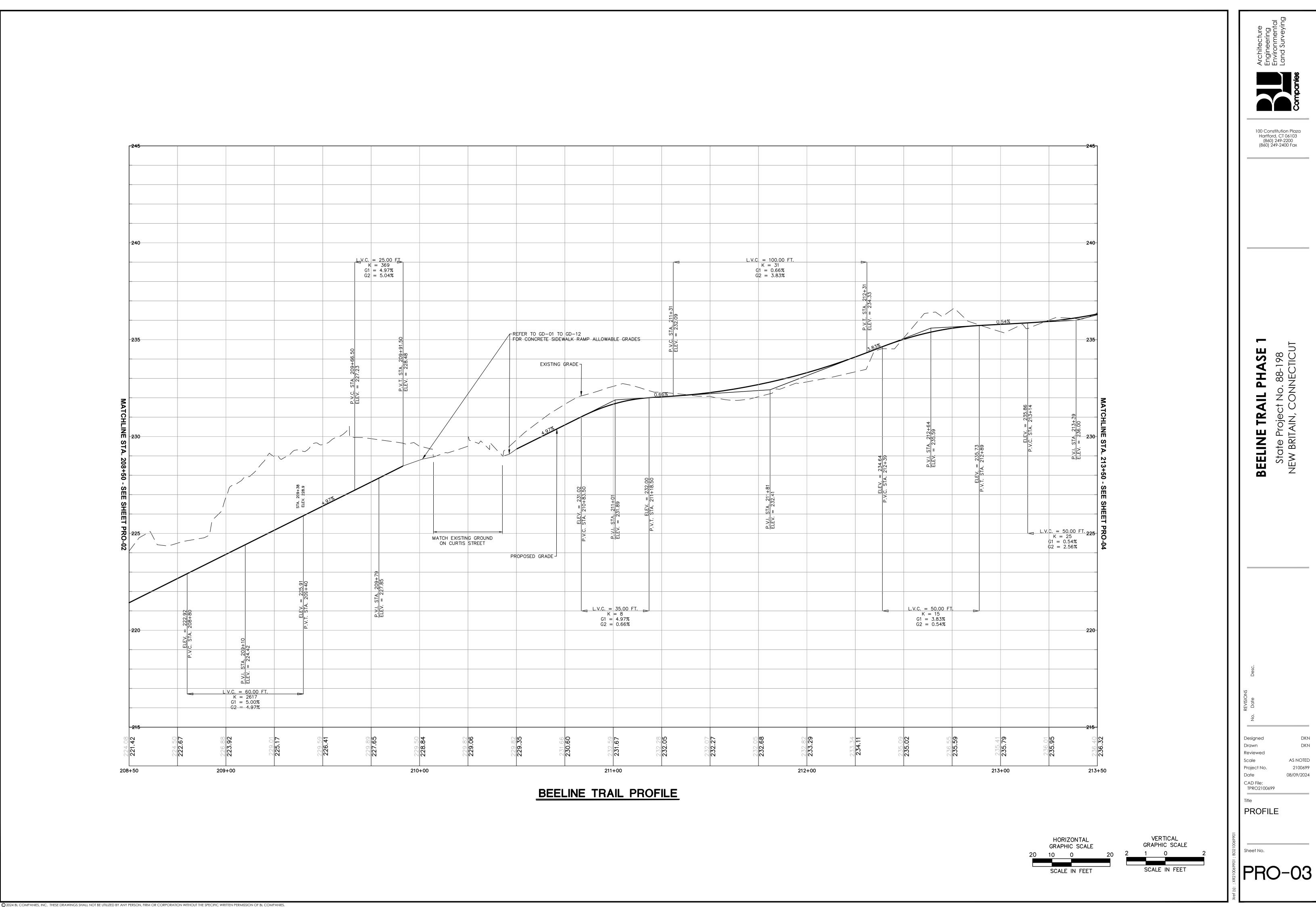
### **BEELINE TRAIL PROFILE**

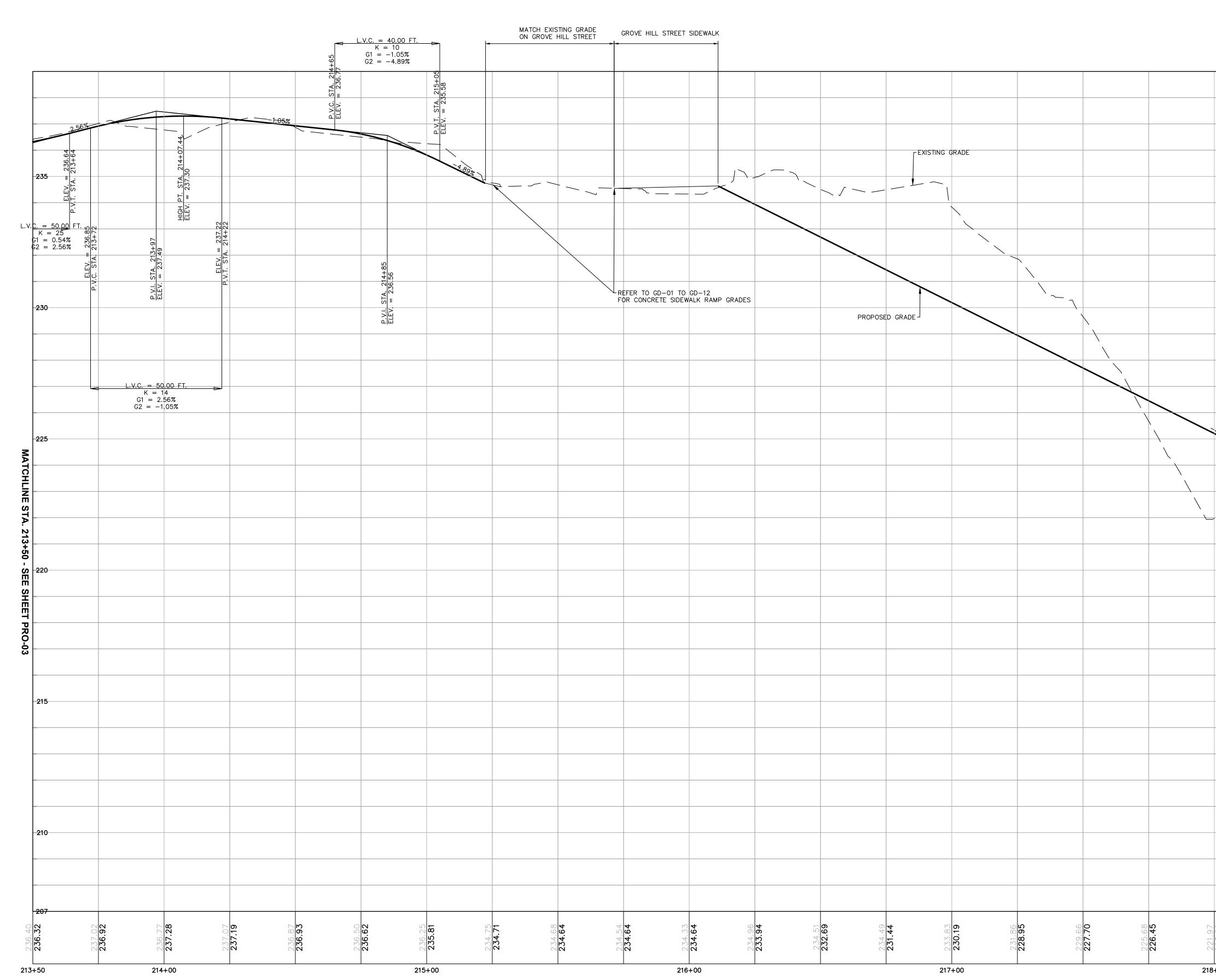
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225 220 220 215 215 216			<b>BEELINE TRAIL PHASE 1</b> State Project No. 88-198 NEW BRITAIN, CONNECTICUT
205 200 0 9 9 1 1 2 202+50	HORIZONTAL GRAPHIC SCALE 20 10 0 20	VERTICAL GRAPHIC SCALE 2 1 0 2 SCALE IN FEET	التان         التان         التان         التان         PTO2100699         Title         PTO2100699         Title         PTOFILE         Sheet No.         PTO7000000000000000000000000000000000000

225  $\begin{array}{rcl} L.V.C. &= 50.00 \ \mbox{FT.} \\ K &= 8 \\ G1 &= -1.60\% \\ G2 &= 4.34\% \end{array}$ L.V.C. = 40.00 FT. K = 7 G1 = 4.34%G2 = -1.31%220 204+ 4.30 203-STA. = 21 STA. = 21 P.V.T. ELEV. <u>کال</u>ت P. <u>V. C.</u> ELEV. 202 0.93 <u>STA.</u> MATCHLINE STA. 202+50 STA. = 21 <u>- - - - - -</u> <u>Р. V. C.</u> ЕLEV.  $\sim$ STA. 20 210.82  $- \sim$ OW P - SEE 4.34% STA 214 -PRO-01 210 204+  $\frac{STA}{=}2$ P.V.I. ELEV. 205 <u>P.V.I.</u> <u>ELEV.</u> <u>211.65</u> 213.9 210. 204+00 202+50 203+00







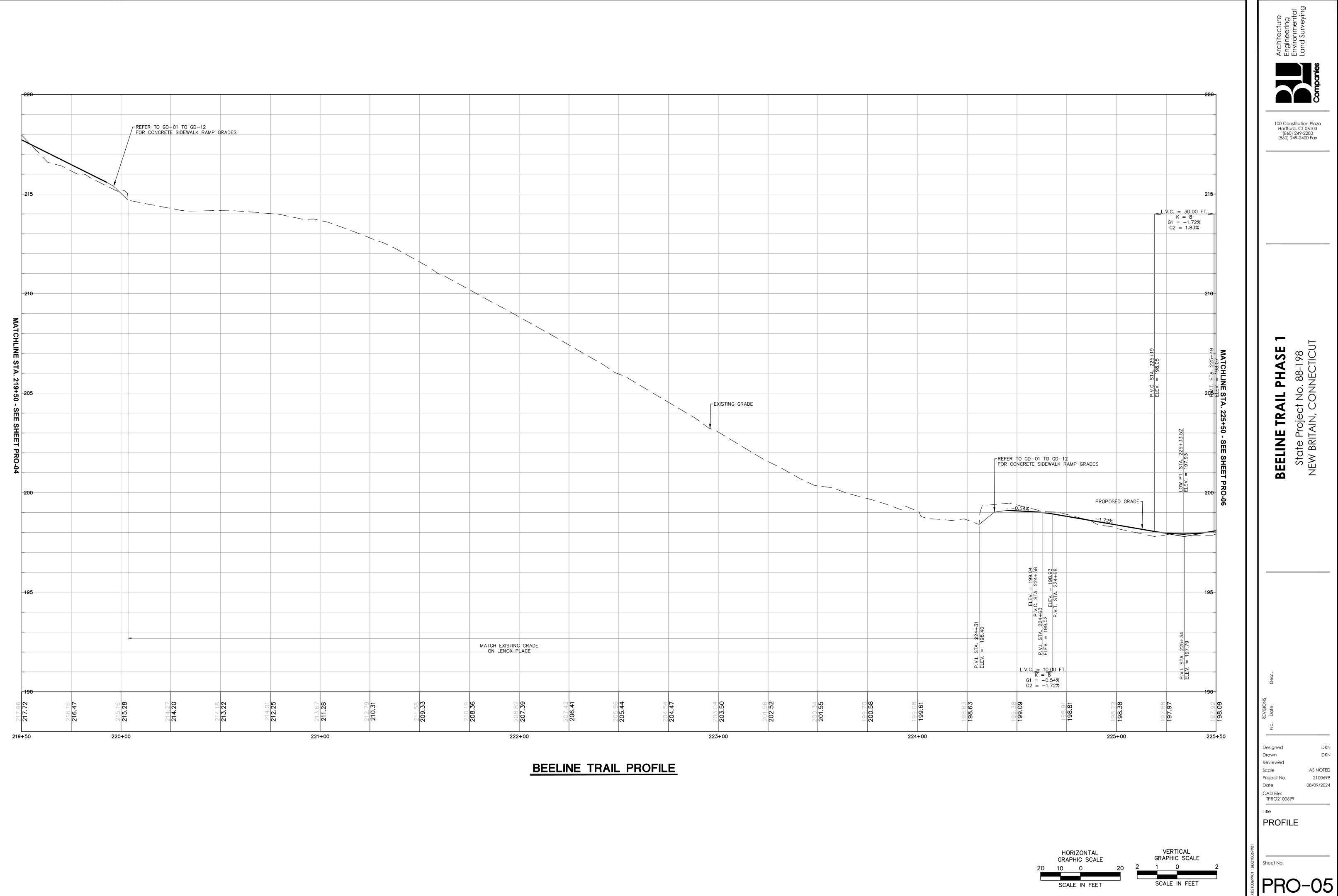


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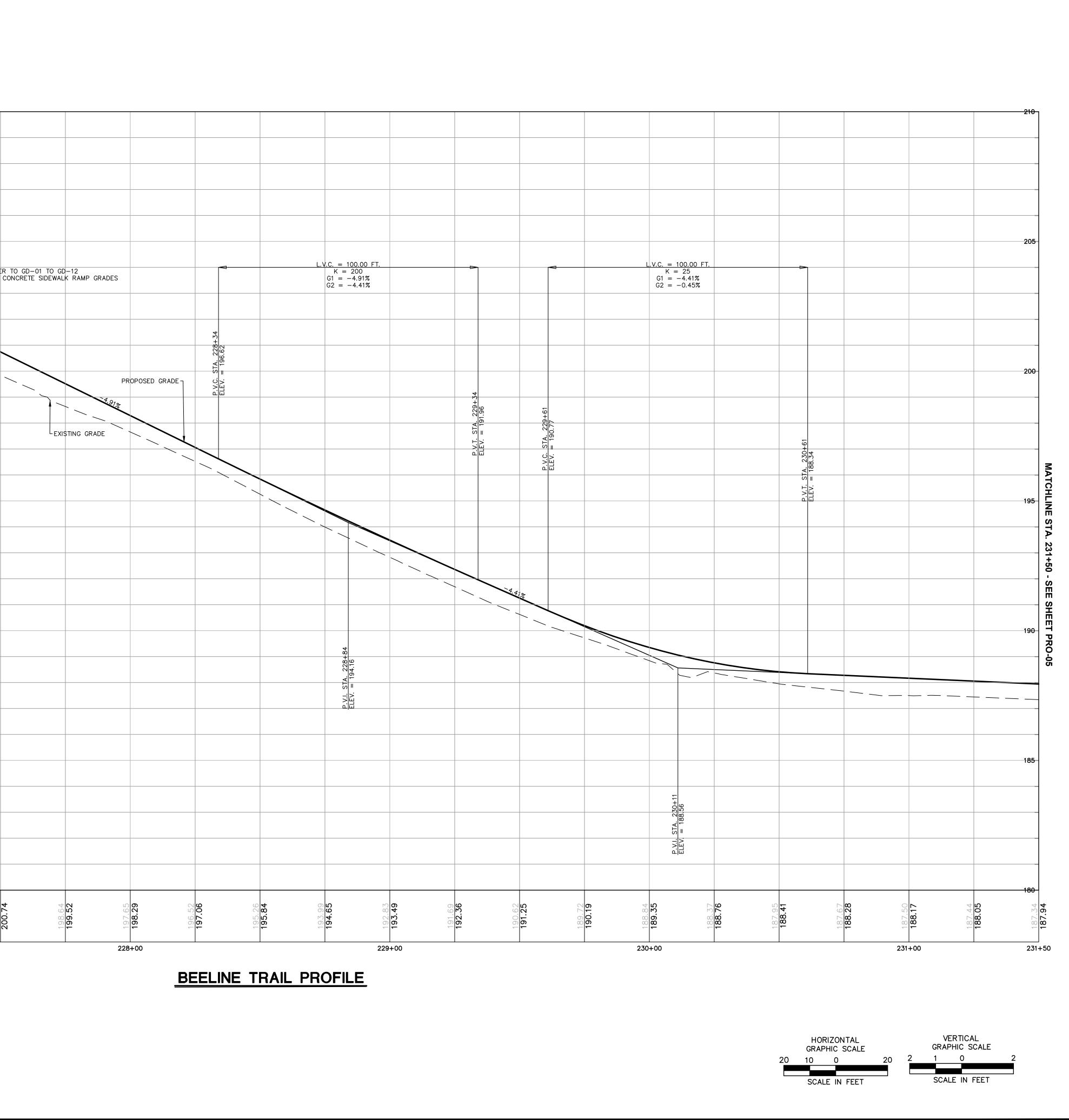
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**BEELINE TRAIL PROFILE** 

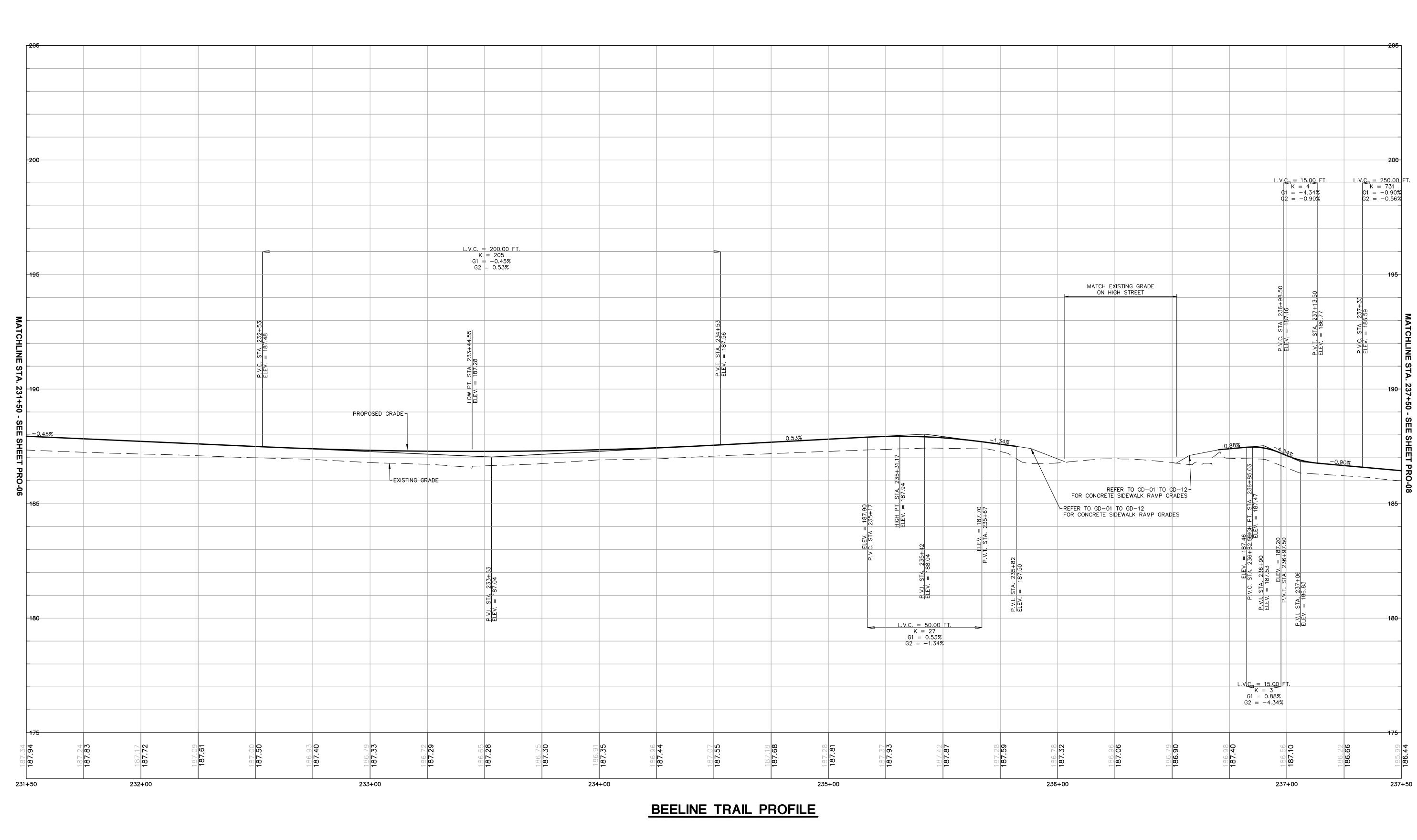
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PROFILI Sheet No.	ġ Designed Drawn Reviewed Scale Project No. Date CAD File: TPRO2100699 Title	REVISIONS Date Desc.			BEELINE	<b>BEELINE TRAIL PHASE</b>	ASE 1		 	100 Cons Hartford (860) (860) 24	
е )-04					State Pr NEW BRIT/	State Project No. 88-198 NEW BRITAIN, CONNECTICU <sup>-</sup>	5-198 CTICUT			<b>O</b> titution Plaza d, CT 06103 249-2200 49-2400 Fax	Land Surveying



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			MAT	CH EXISTING GRADE N LAKE STREET		
		P.V.I. ST ELEV. =				
		A. 226+29 199.54				P.V.I. SI ELEV. =
						P.V.I. STA. 227+35 ELEV. = 201.28
1.83%						
		REFER TO GD	-01 TO GD-12 TE SIDEWALK RAMP	GRADES		
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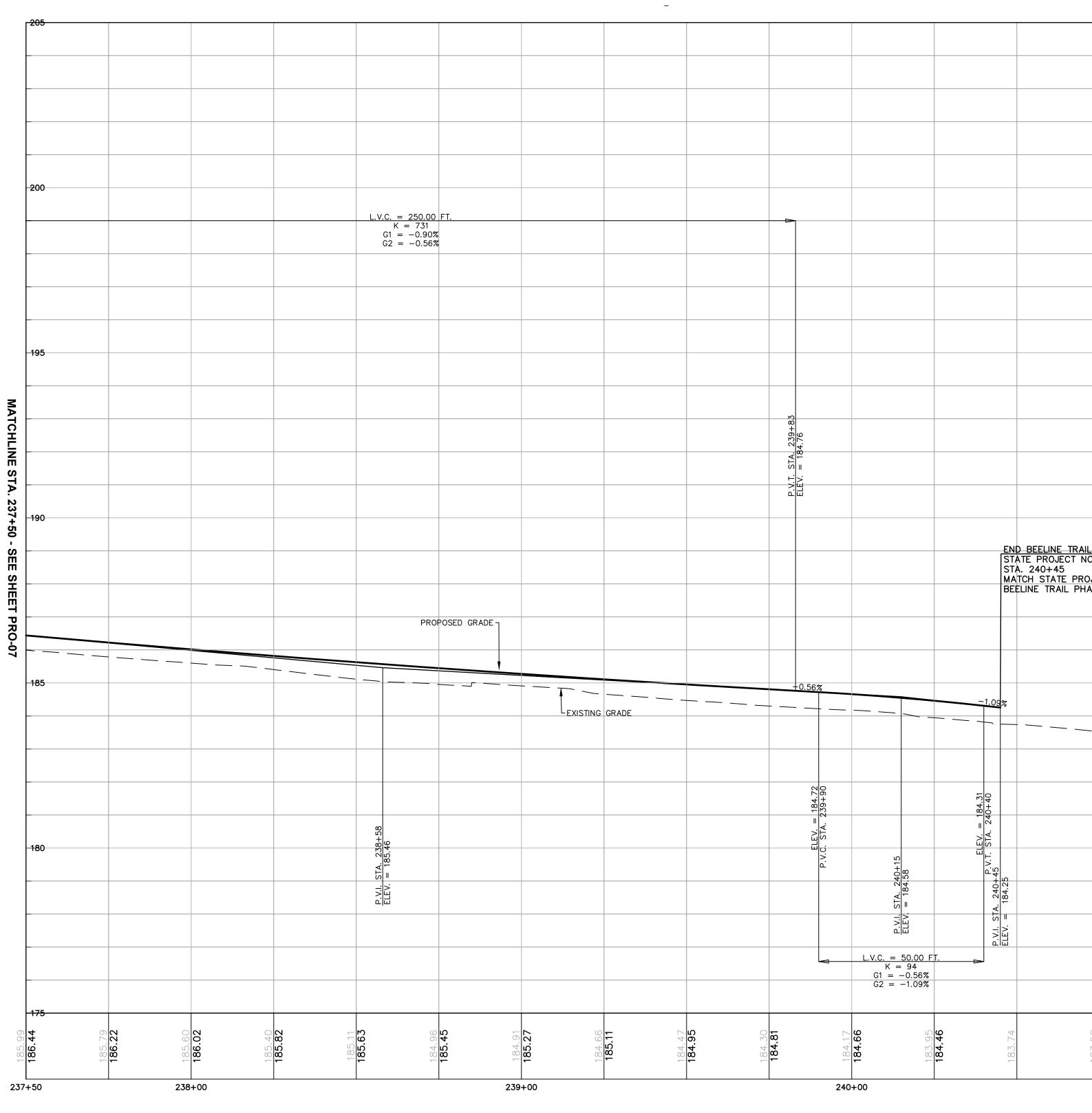


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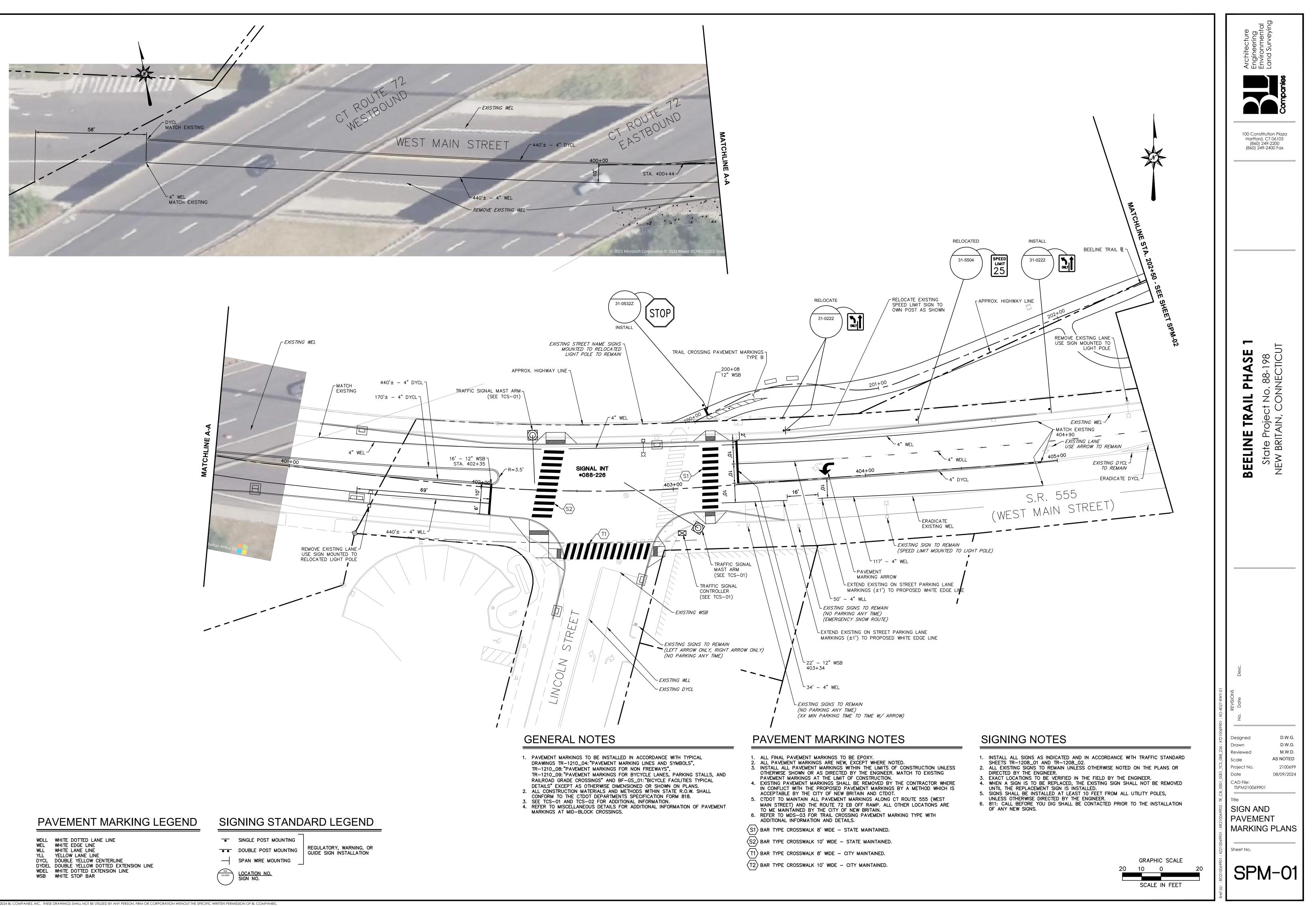
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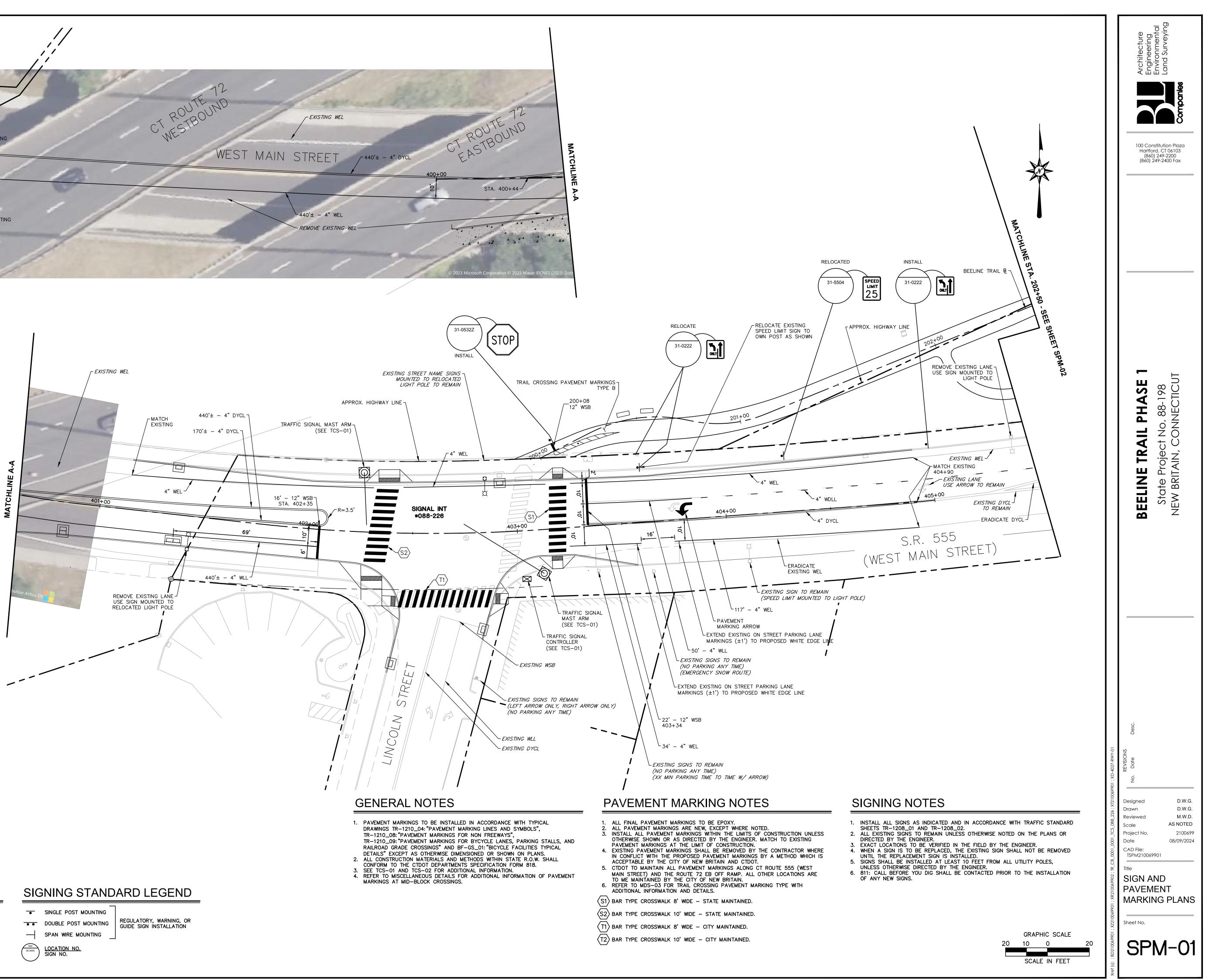
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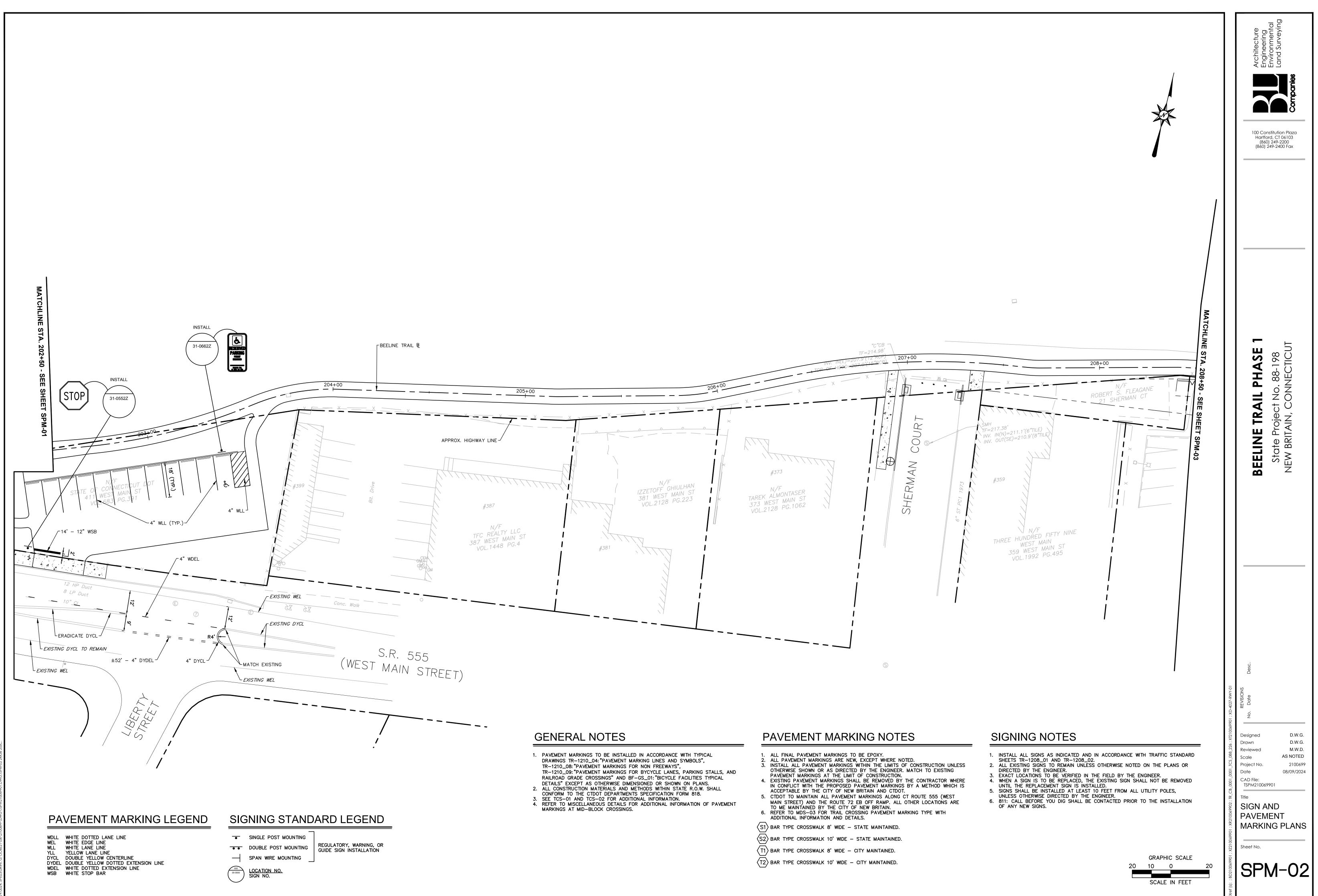


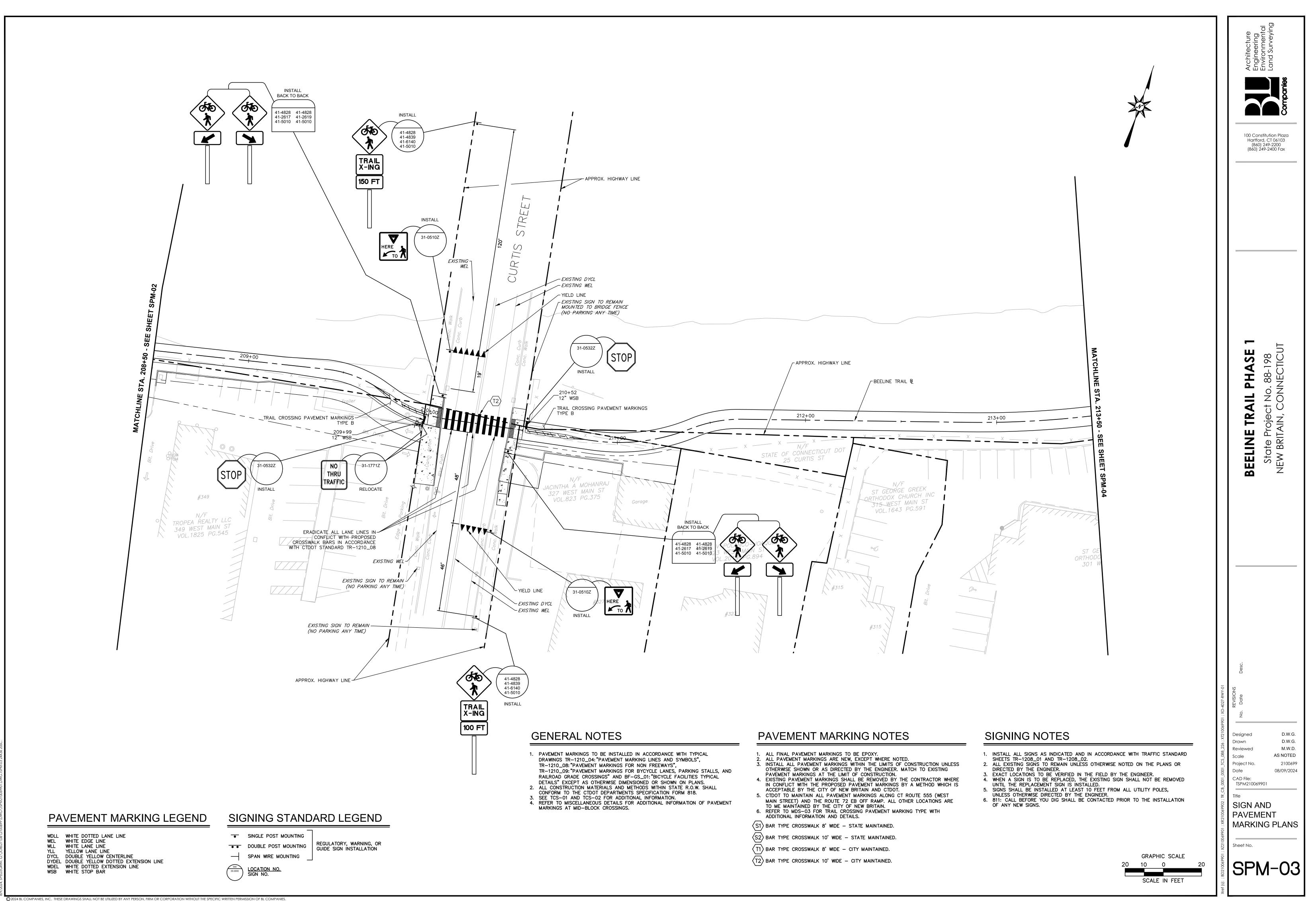
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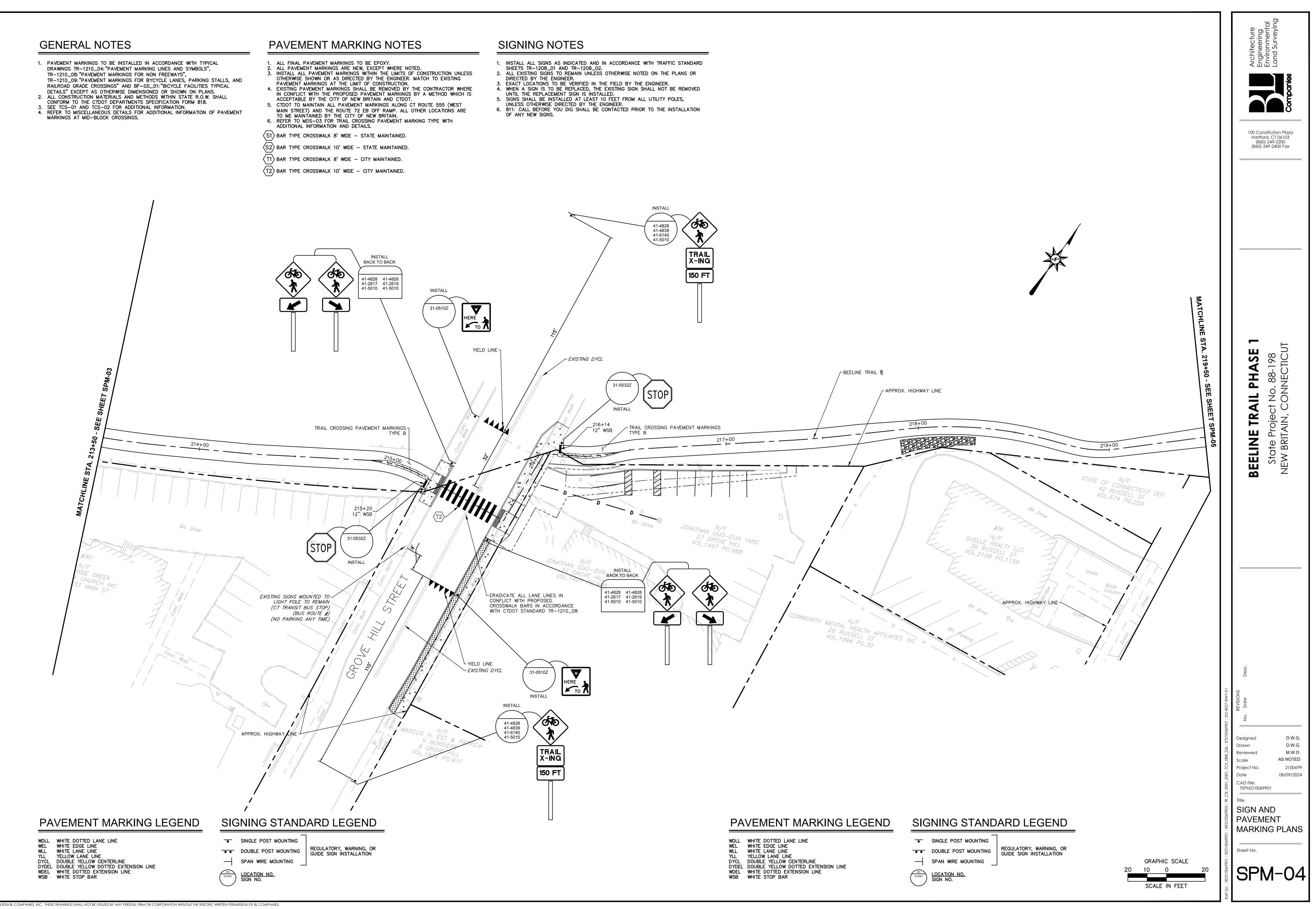
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195			<b>BEELINE TRAIL PHASE 1</b> State Project No. 88-198 NEW BRITAIN, CONNECTICUT
190 NL PHASE 1 PROFILE NO. 88–198 COJECT NO LO88–0003 HASE 8			<b>BEELINE TRAIL PHASE</b> State Project No. 88-198 NEW BRITAIN, CONNECTICUT
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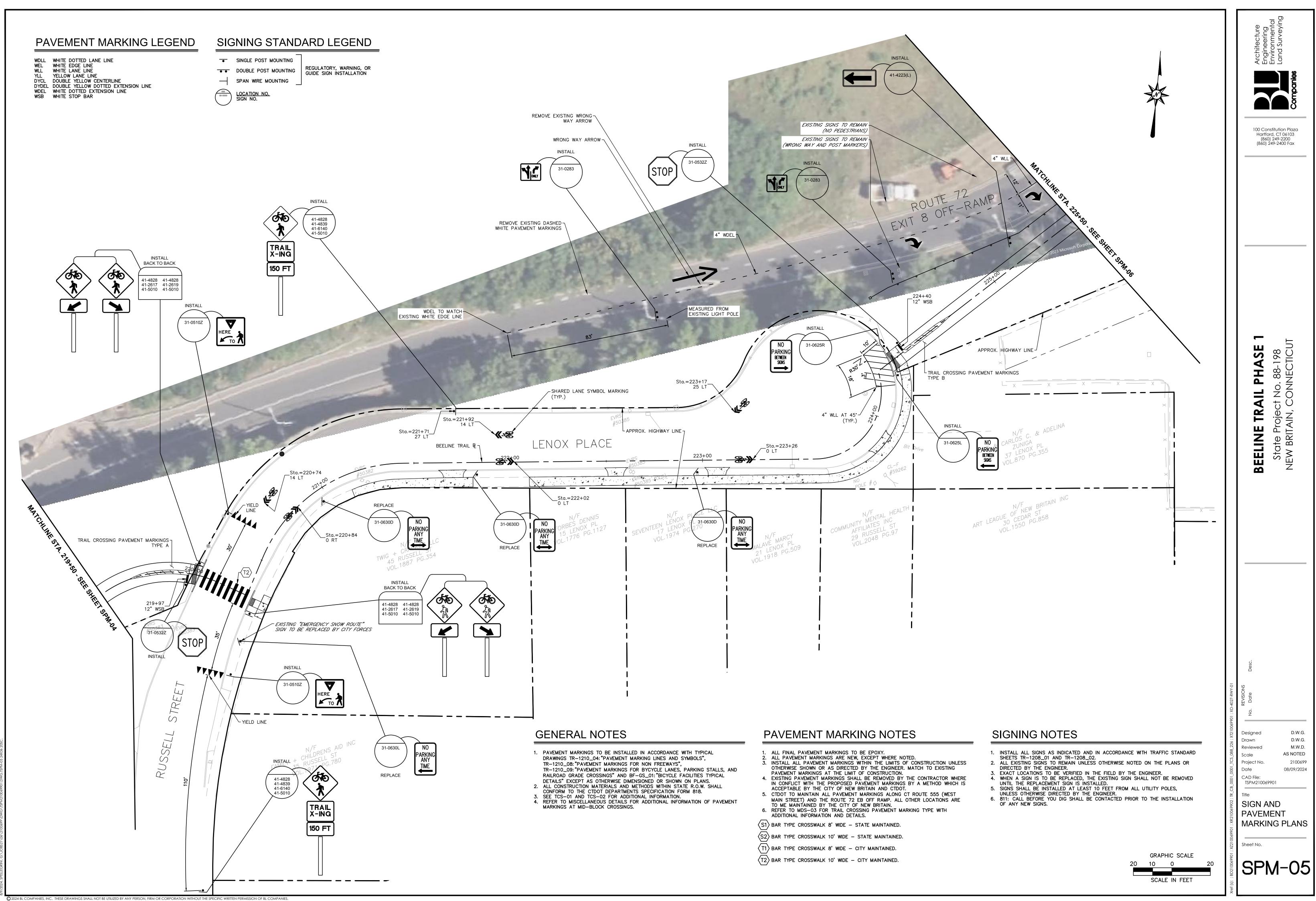


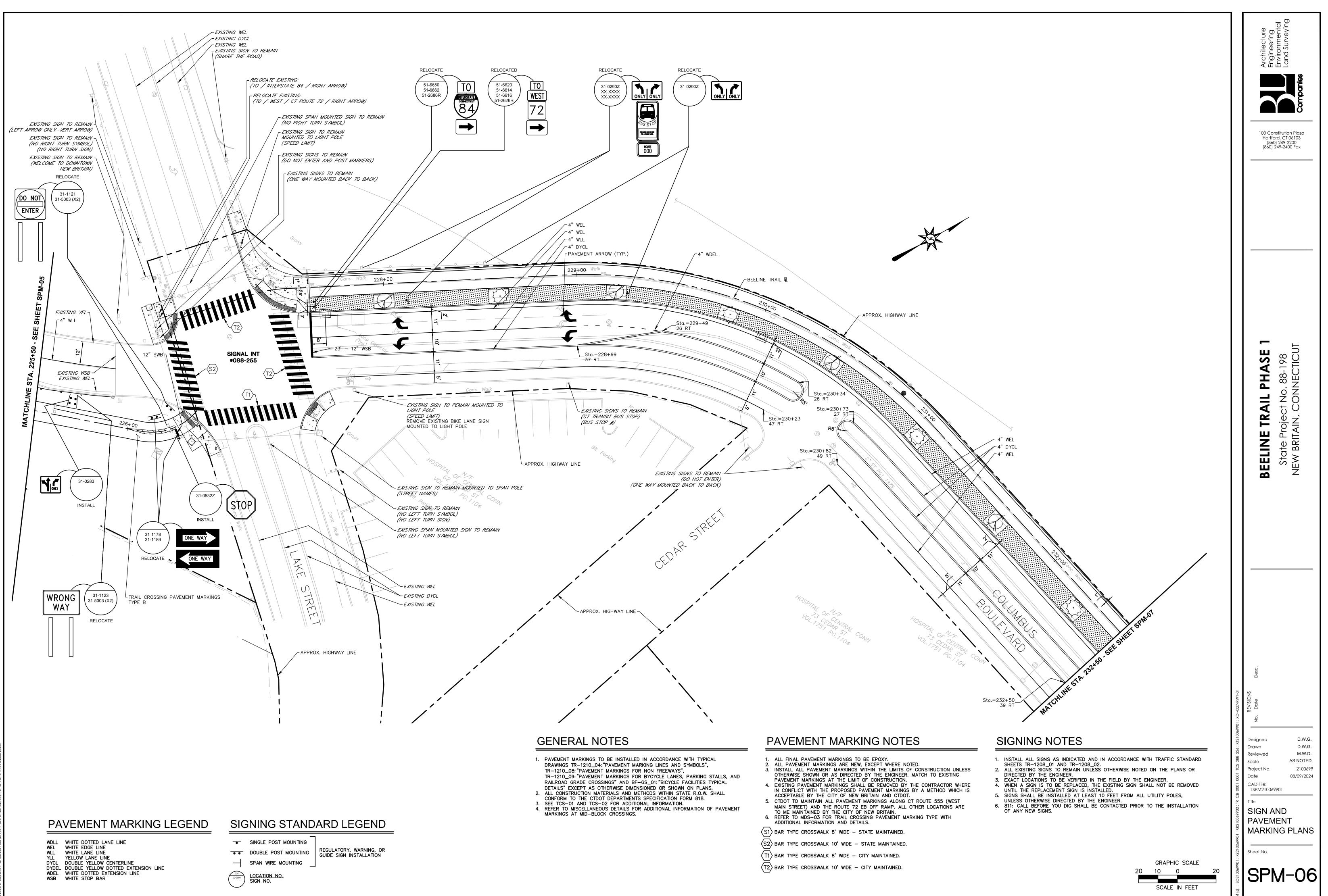


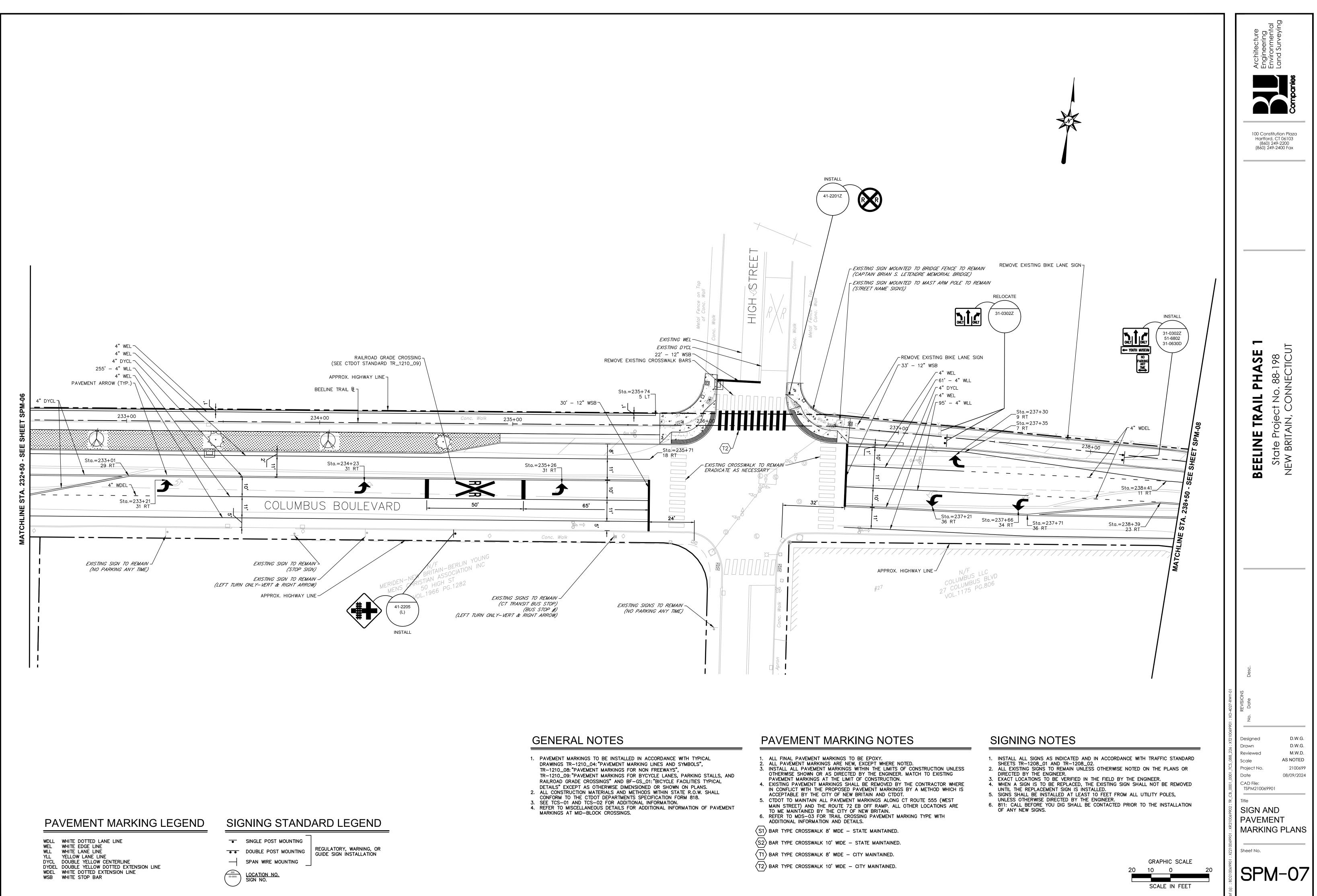


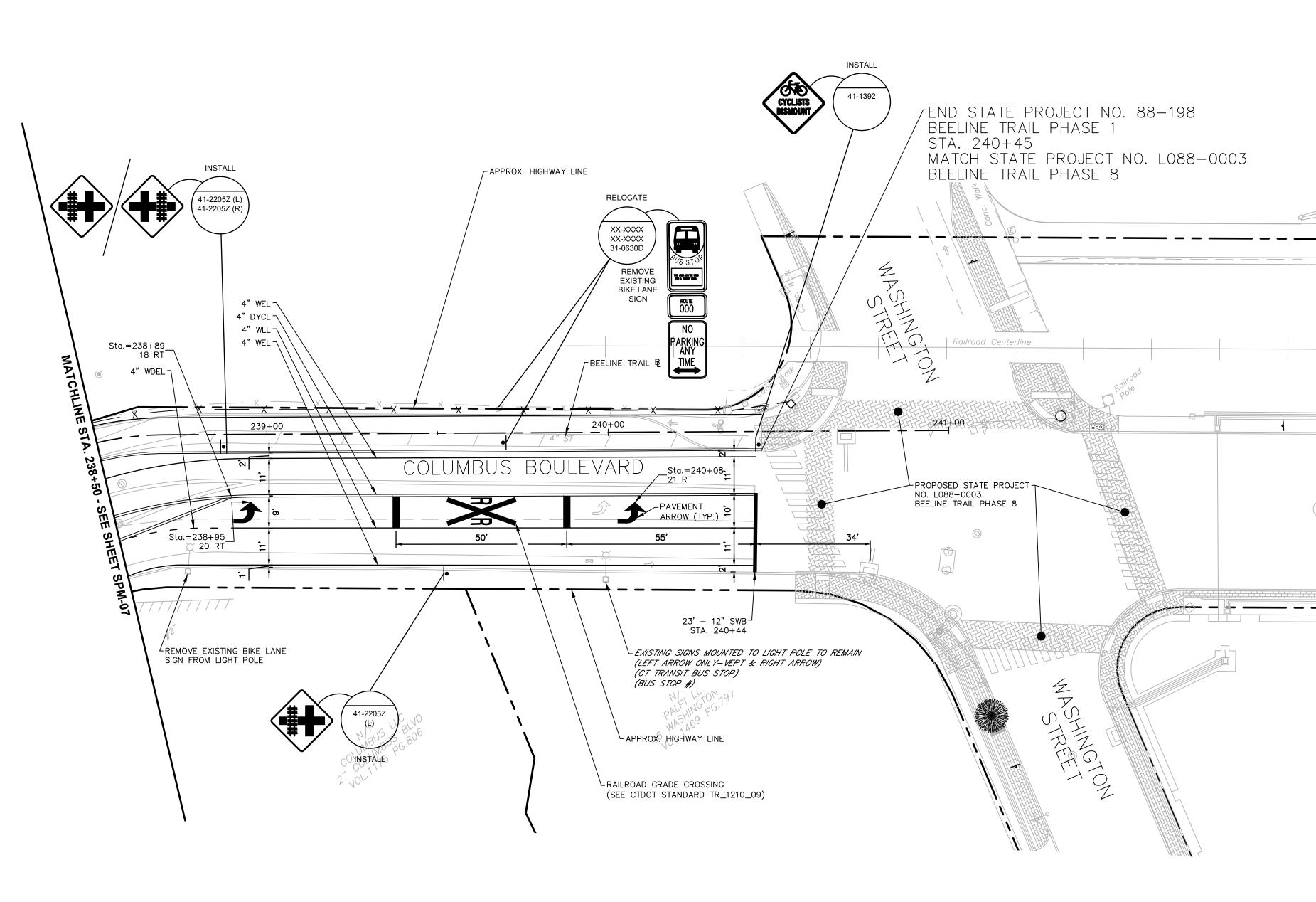






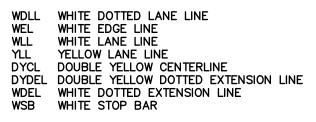






## PAVEMENT MARKING LEGEND

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## SIGNING STANDARD LEGEND

#### SINGLE POST MOUNTING •• DOUBLE POST MOUNTING REGULATORY, WARNING, OR GUIDE SIGN INSTALLATION

) LOCATION NO. SIGN NO.

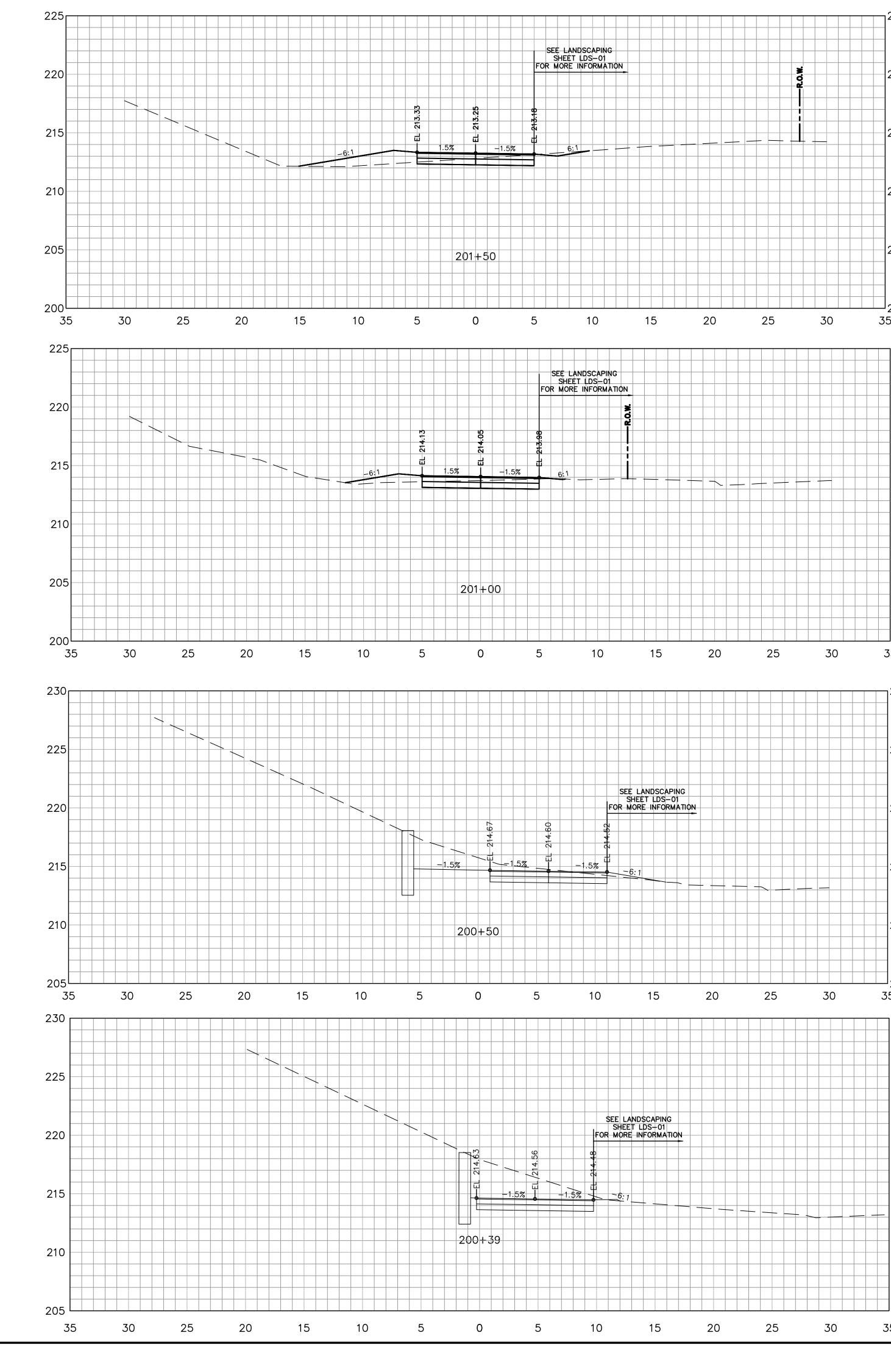
### GENERAL NOTES

- 1. PAVEMENT MARKINGS TO BE INSTALLED IN ACCORDANCE WITH TYPICAL DRAWINGS TR-1210\_04: "PAVEMENT MARKING LINES AND SYMBOLS", TR-1210\_08: "PAVEMENT MARKINGS FOR NON FREEWAYS", TR-1210\_09: "PAVEMENT MARKINGS FOR BYCYCLE LANES, PARKING STALLS, AND
- RAILROAD GRADE CROSSINGS" AND BF-GS\_01: "BICYCLE FACILITIES TYPICAL DETAILS" EXCEPT AS OTHERWISE DIMENSIONED OR SHOWN ON PLANS. 2. ALL CONSTRUCTION MATERIALS AND METHODS WITHIN STATE R.O.W. SHALL
- CONFORM TO THE CTDOT DEPARTMENTS SPECIFICATION FORM 818. 3. SEE TCS-01 AND TCS-02 FOR ADDITIONAL INFORMATION.
- SEE TOS OT AND TOS OZ FOR ADDITIONAL INFORMATION OF PAVEMENT
   REFER TO MISCELLANEOUS DETAILS FOR ADDITIONAL INFORMATION OF PAVEMENT MARKINGS AT MID-BLOCK CROSSINGS.

### PAVEMENT MARKING NOTES

- 1. ALL FINAL PAVEMENT MARKINGS TO BE EPOXY. ALL PAVEMENT MARKINGS ARE NEW, EXCEPT WHERE NOTED.
- ALL PAVEMENT MARKINGS ARE NEW, EACEPT WHERE NOTED.
   INSTALL ALL PAVEMENT MARKINGS WITHIN THE LIMITS OF CONSTRU OTHERWISE SHOWN OR AS DIRECTED BY THE ENGINEER. MATCH TO PAVEMENT MARKINGS AT THE LIMIT OF CONSTRUCTION. 4. EXISTING PAVEMENT MARKINGS SHALL BE REMOVED BY THE CONT
- IN CONFLICT WITH THE PROPOSED PAVEMENT MARKINGS BY A MET ACCEPTABLE BY THE CITY OF NEW BRITAIN AND CTDOT. 5. CTDOT TO MAINTAIN ALL PAVEMENT MARKINGS ALONG CT ROUTE
- MAIN STREET) AND THE ROUTE 72 EB OFF RAMP. ALL OTHER LOCA TO ME MAINTAINED BY THE CITY OF NEW BRITAIN.
   REFER TO MDS-03 FOR TRAIL CROSSING PAVEMENT MARKING TYPE
- ADDITIONAL INFORMATION AND DETAILS.
- $\langle S1 \rangle$  bar type crosswalk 8' wide state maintained.
- $\langle S2 \rangle$  BAR TYPE CROSSWALK 10' WIDE STATE MAINTAINED.
- $\langle T1 \rangle$  bar type crosswalk 8' wide City Maintained.
- $\langle T2 \rangle$  bar type crosswalk 10' wide city maintained.

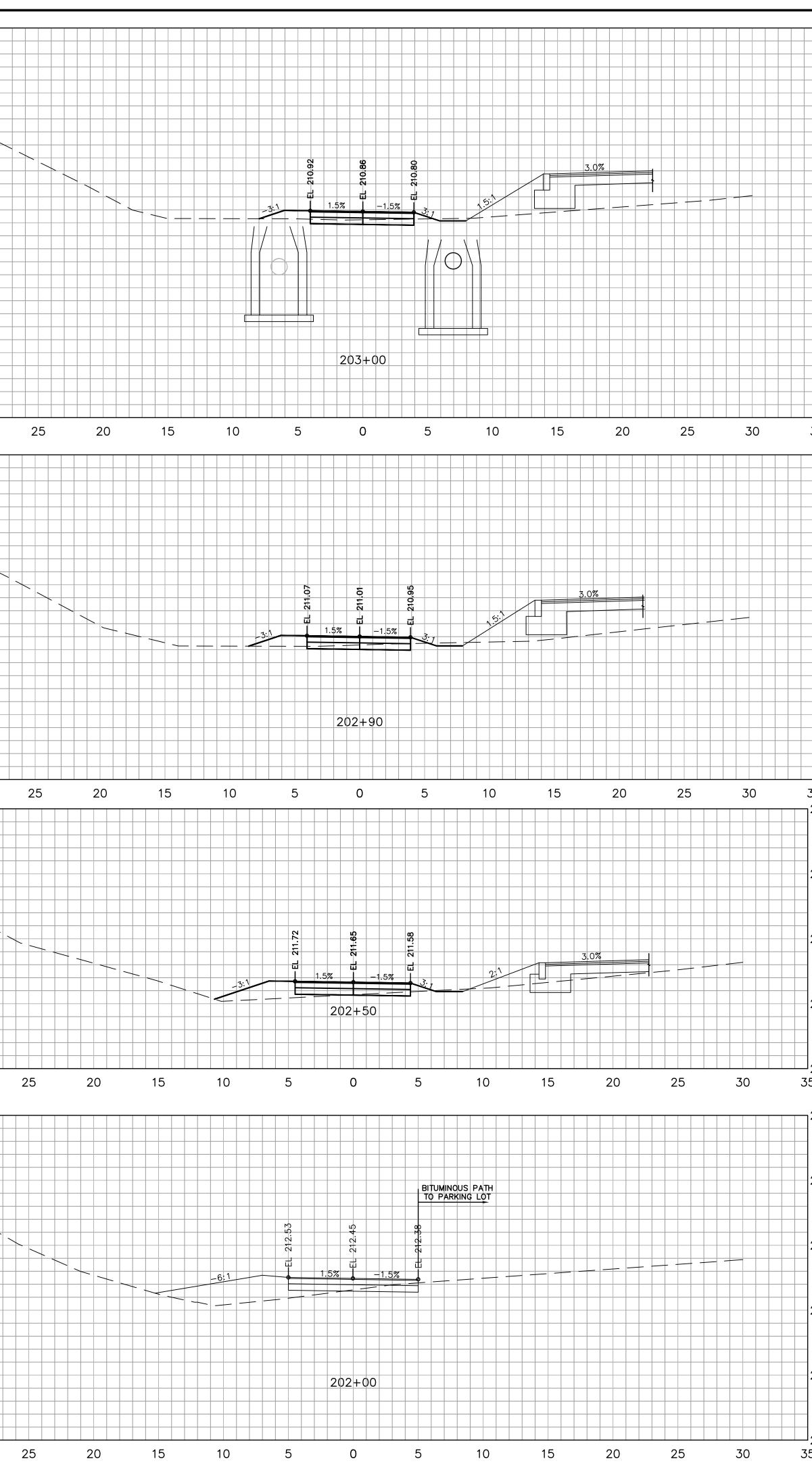
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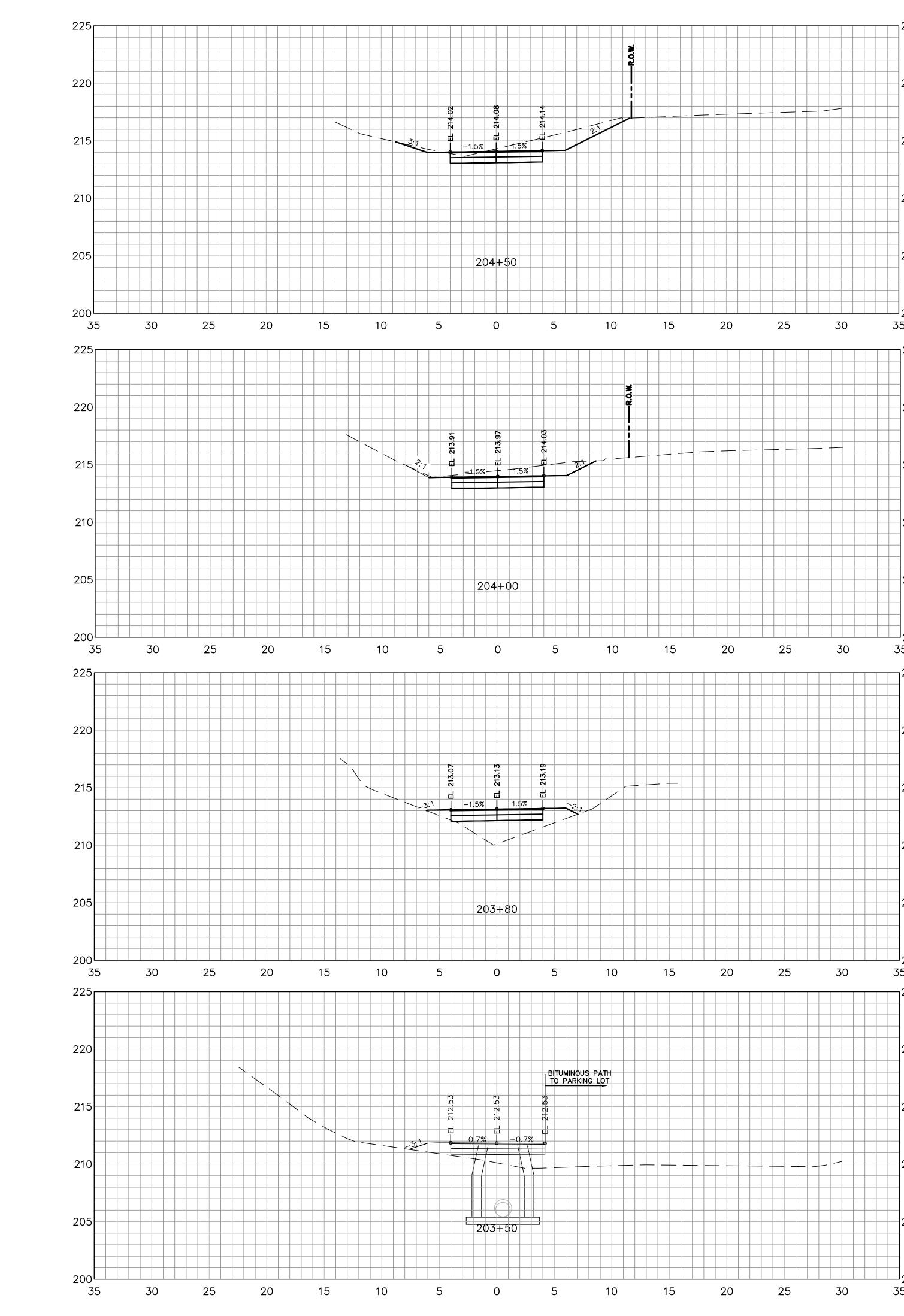
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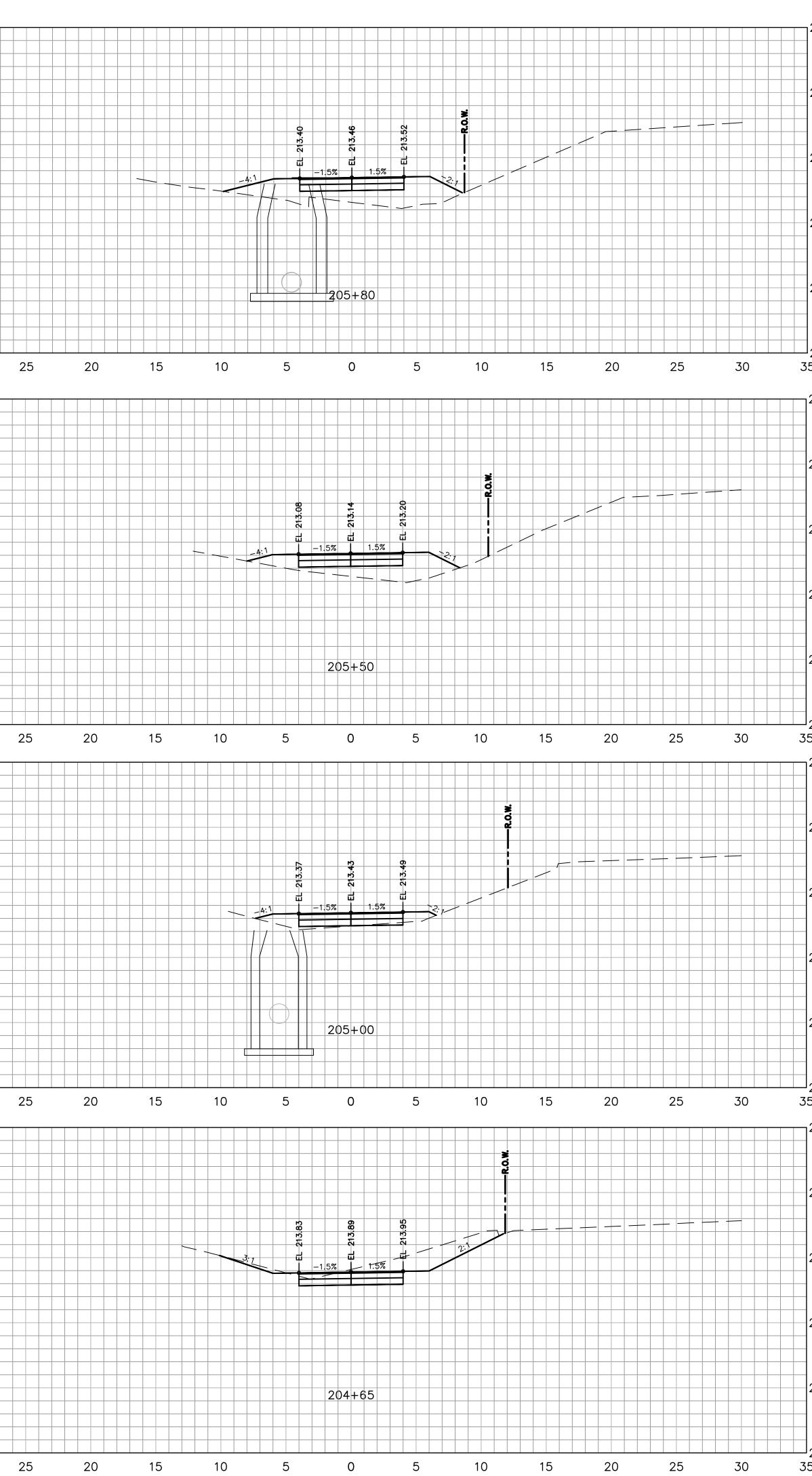


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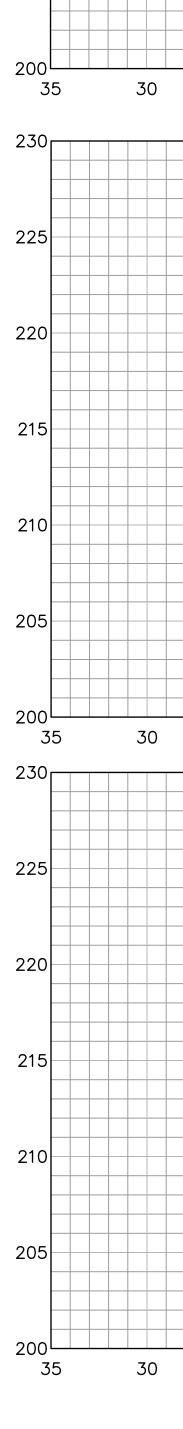
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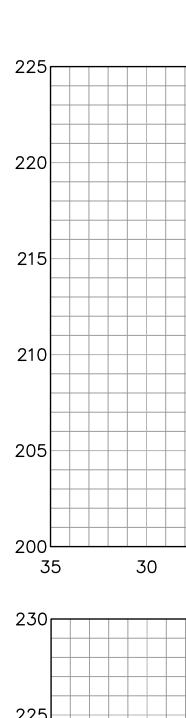
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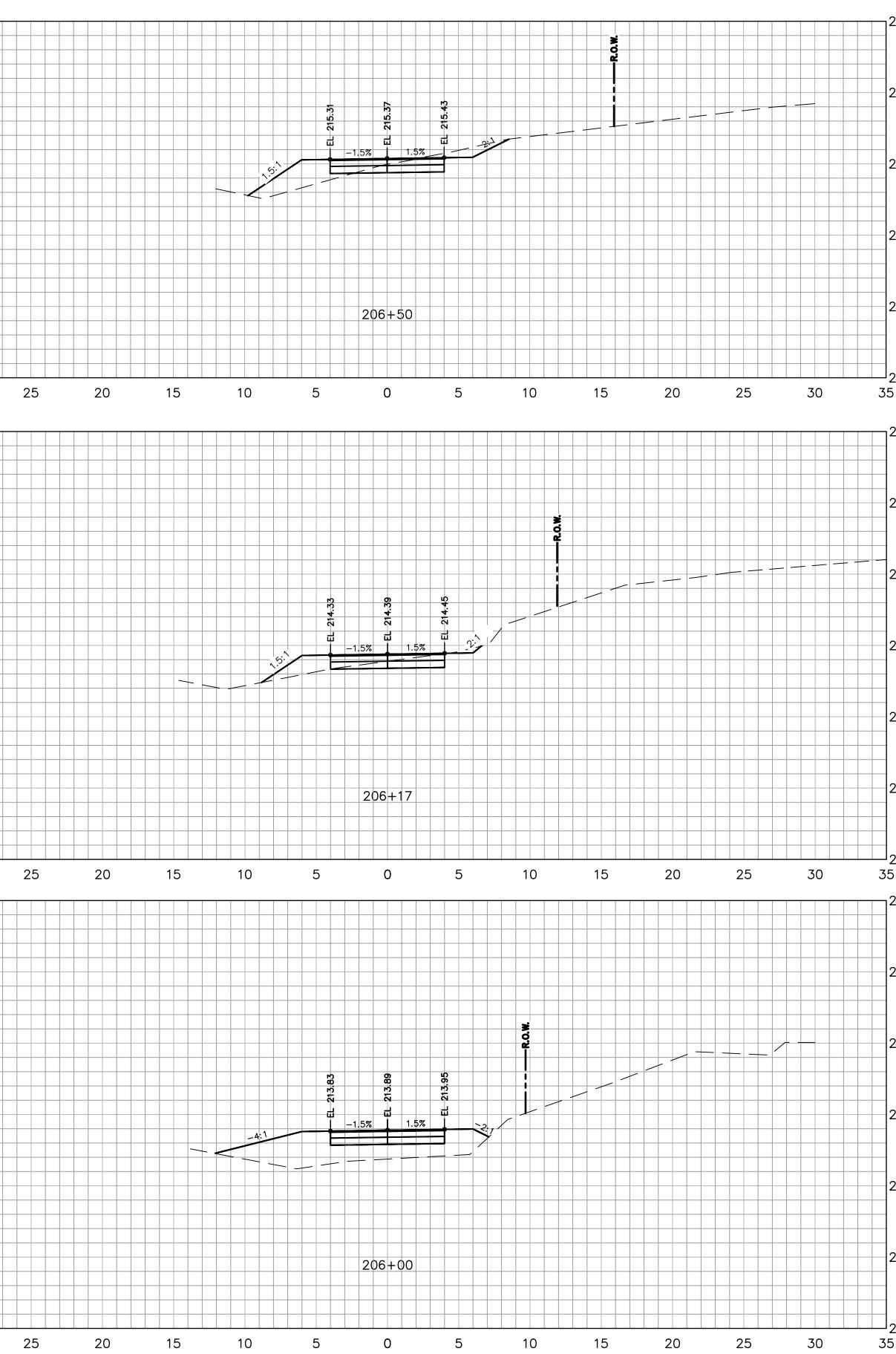


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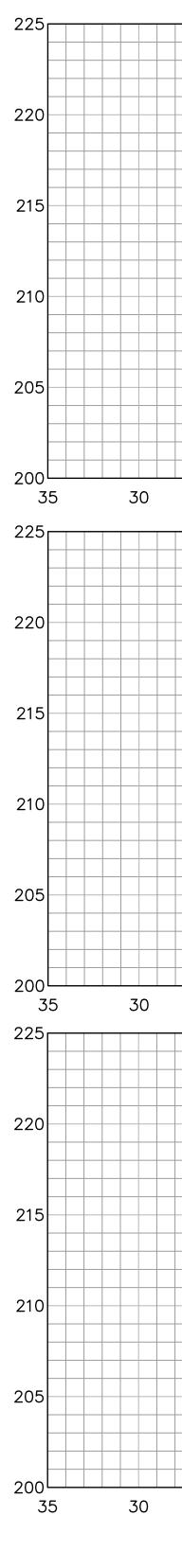


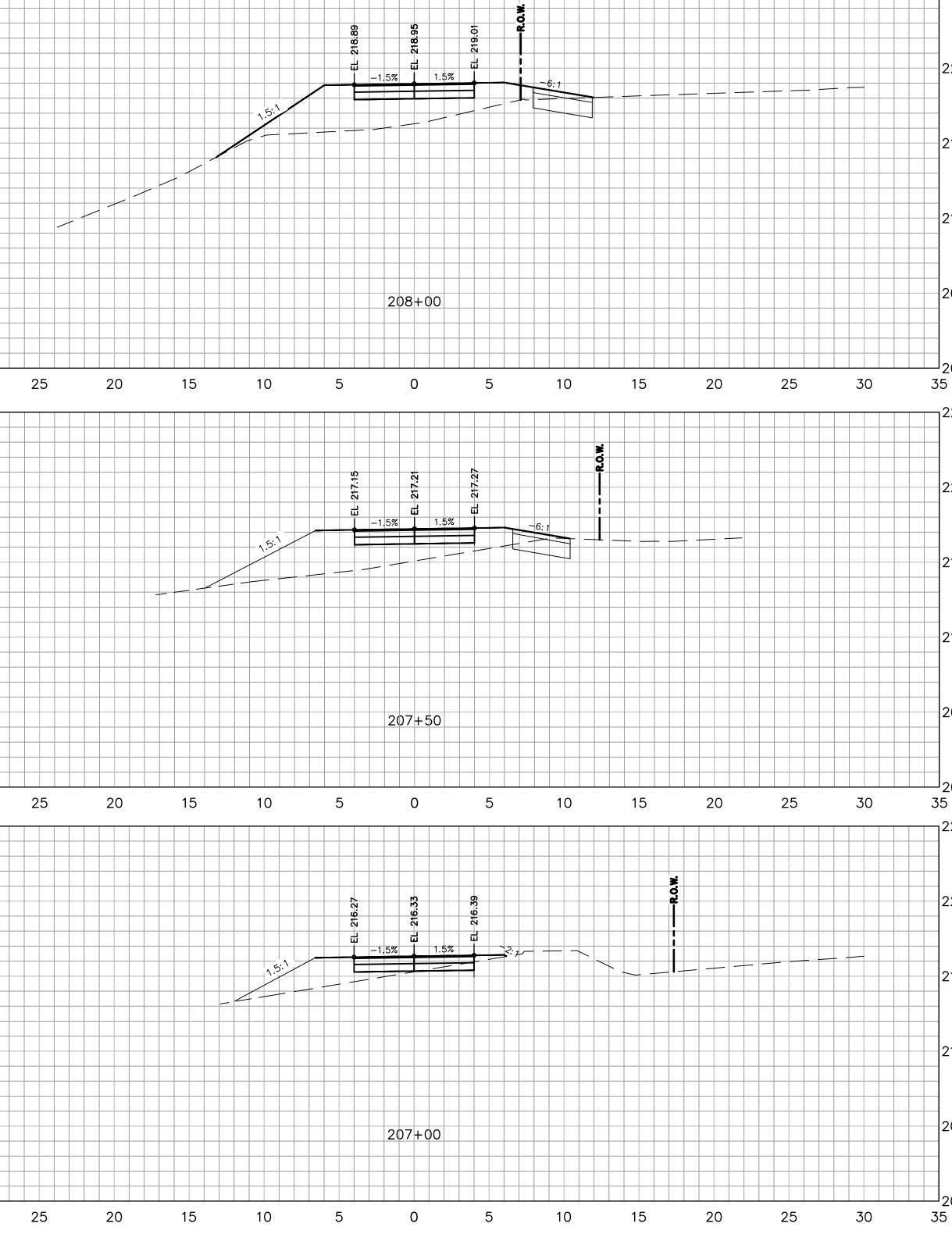




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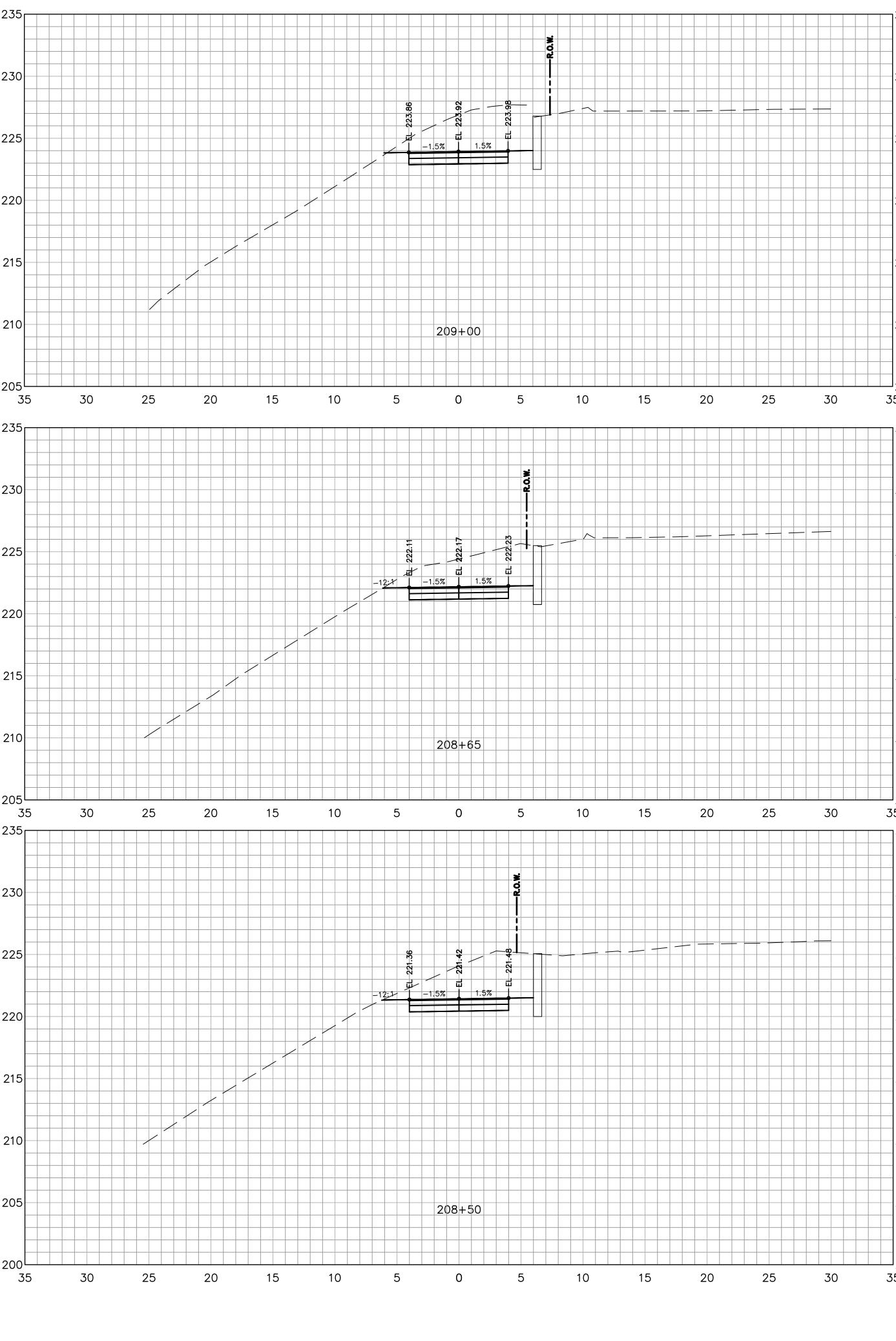
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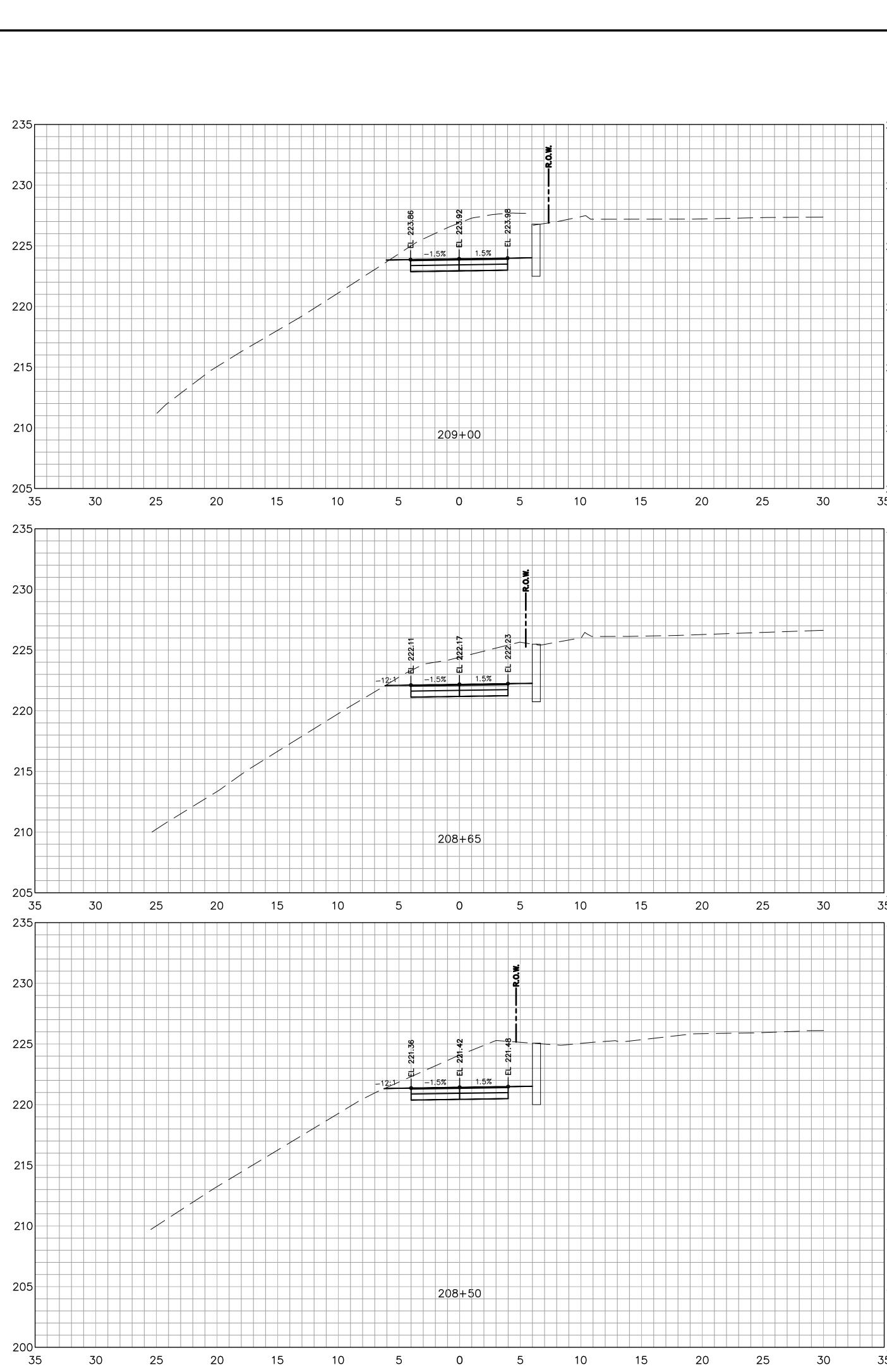




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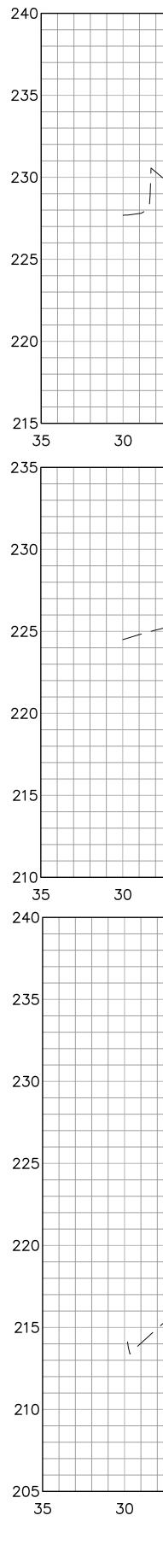


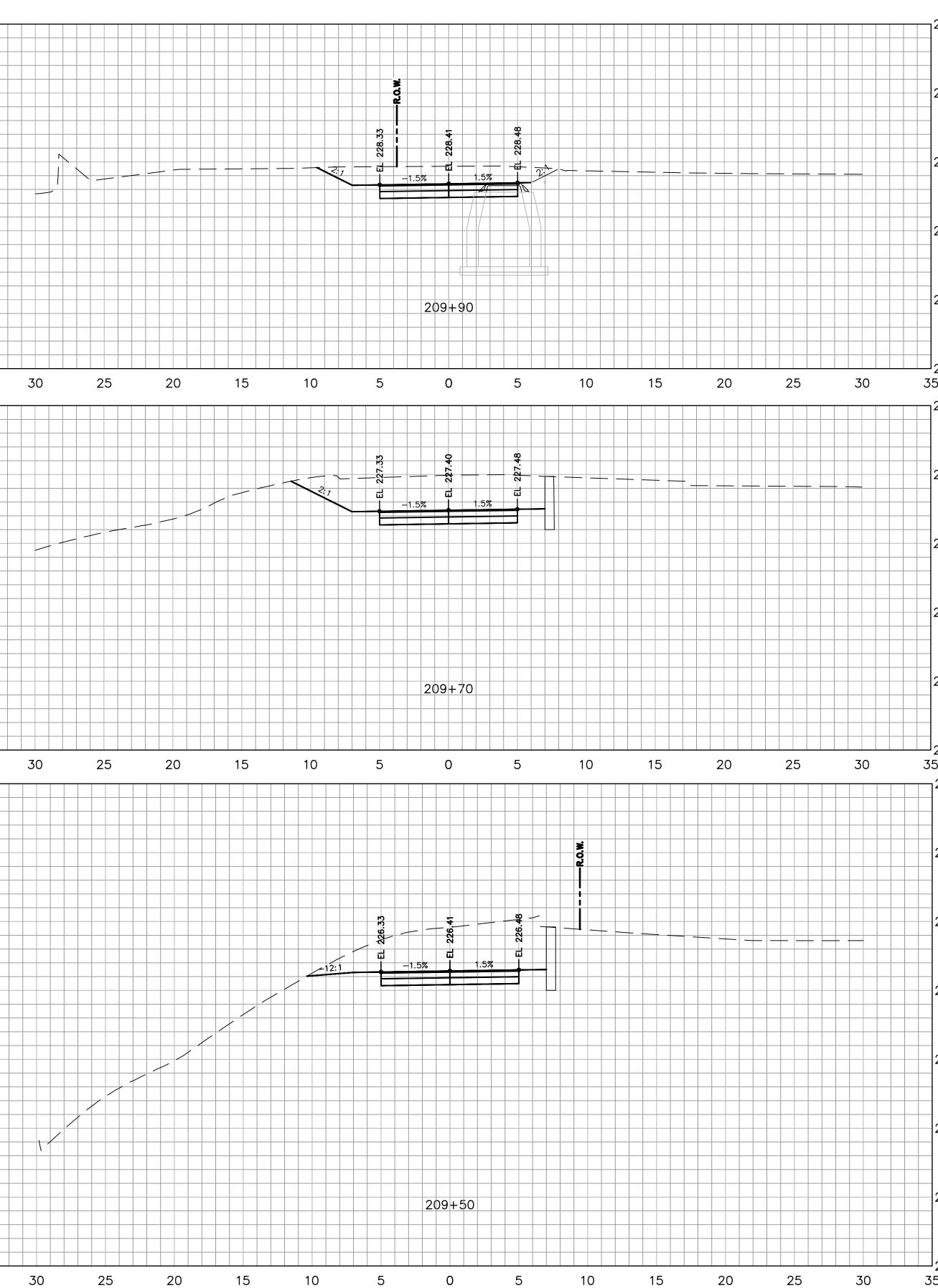




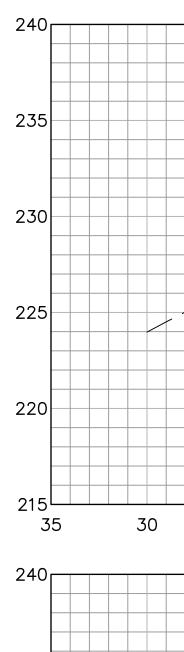
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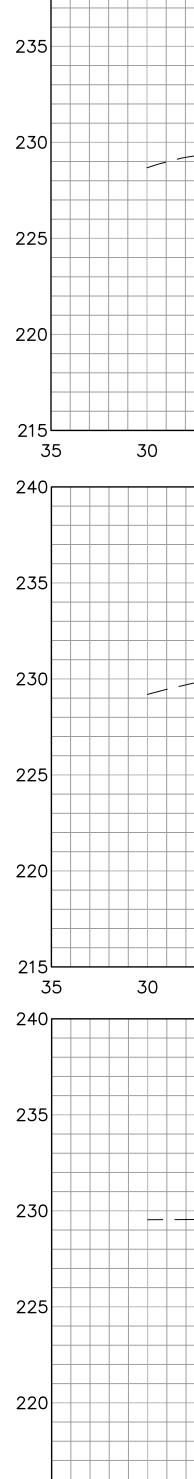
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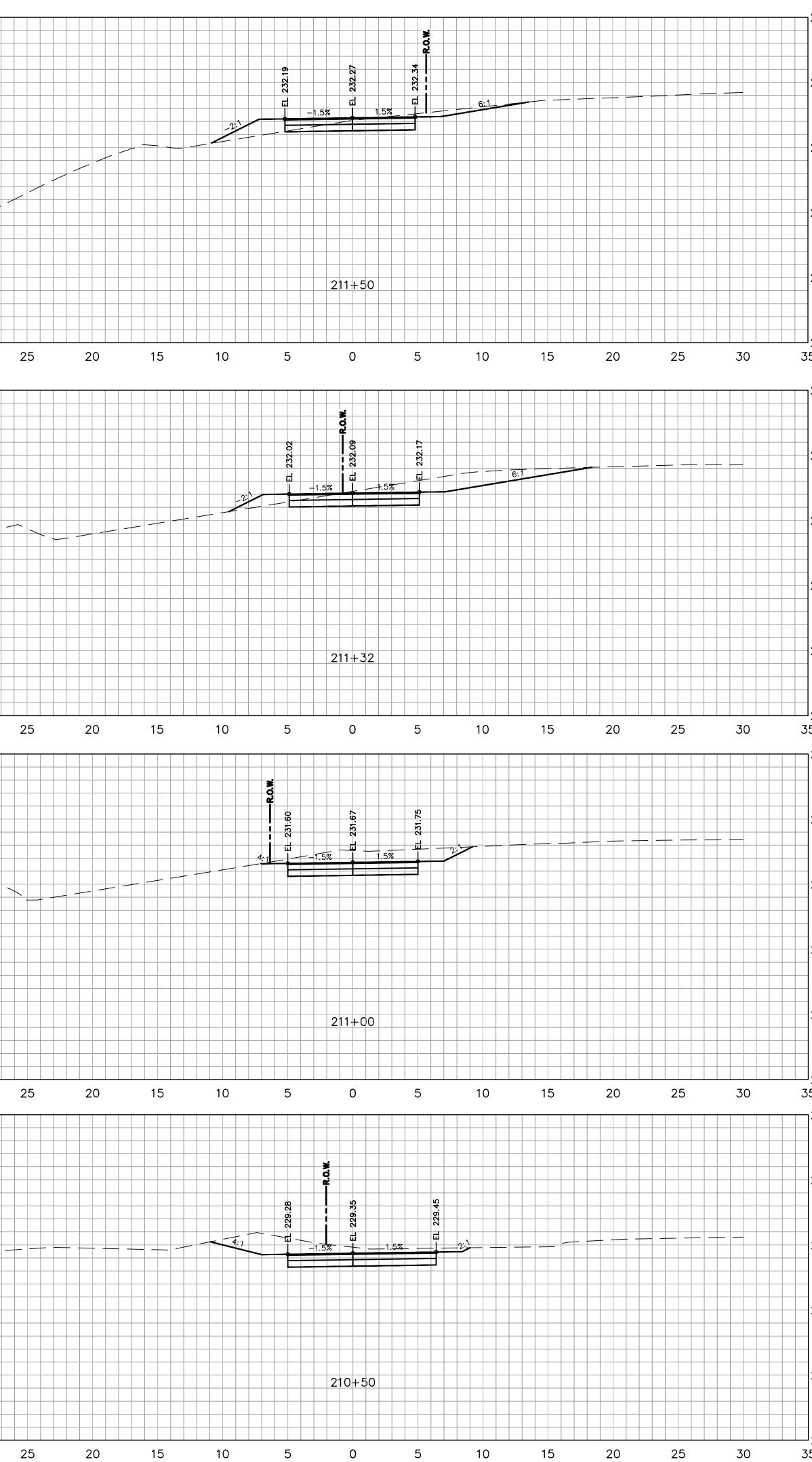




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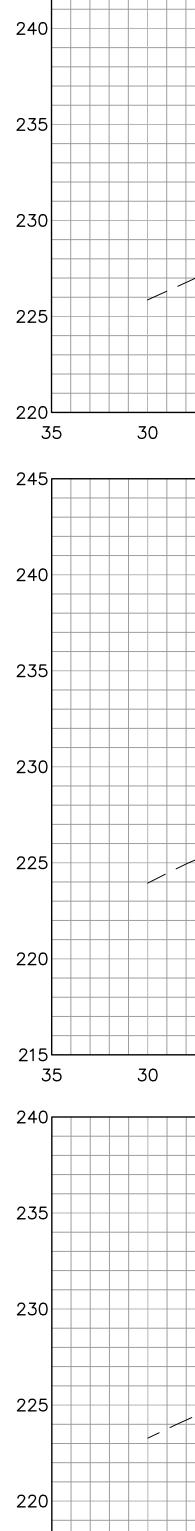
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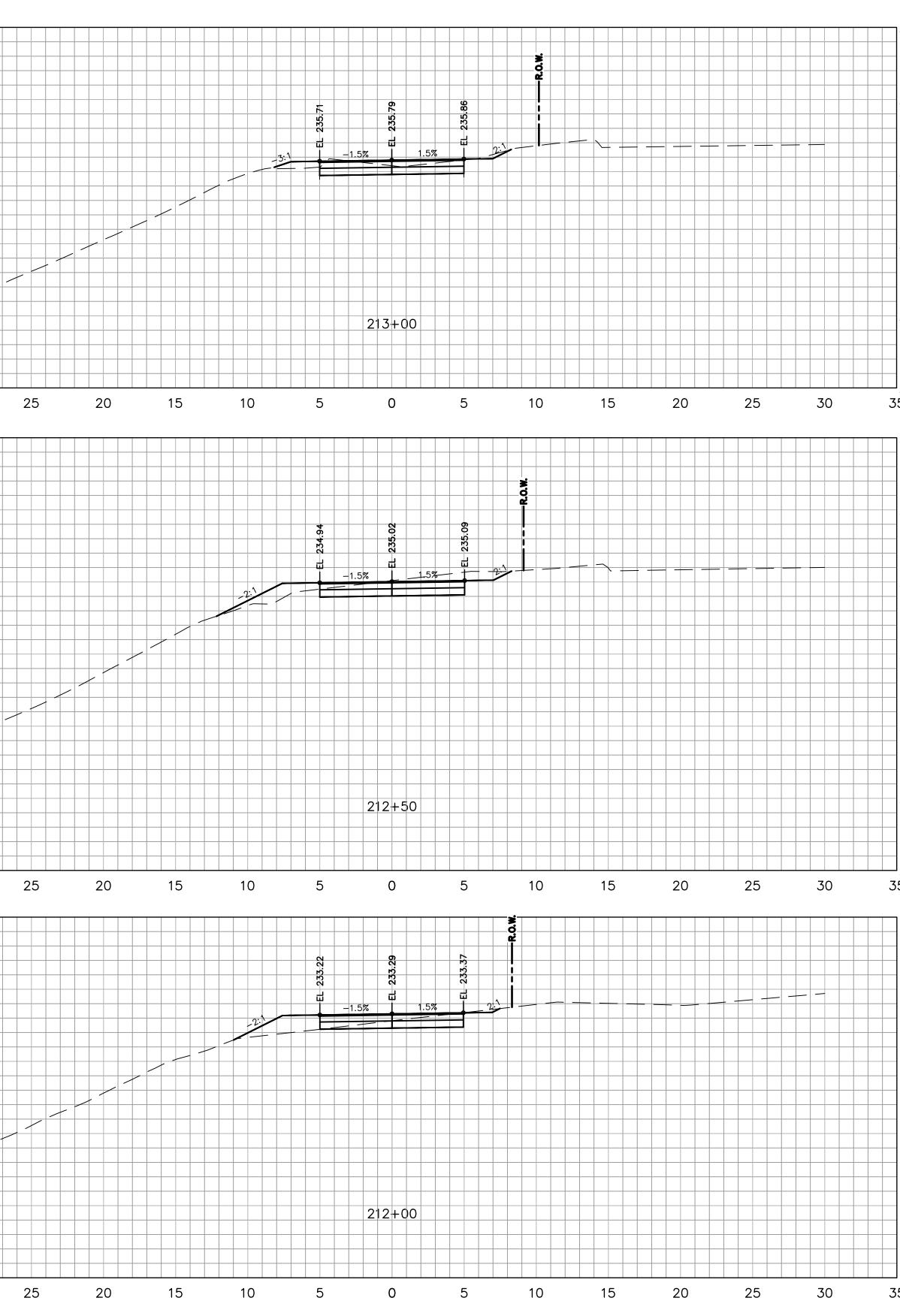
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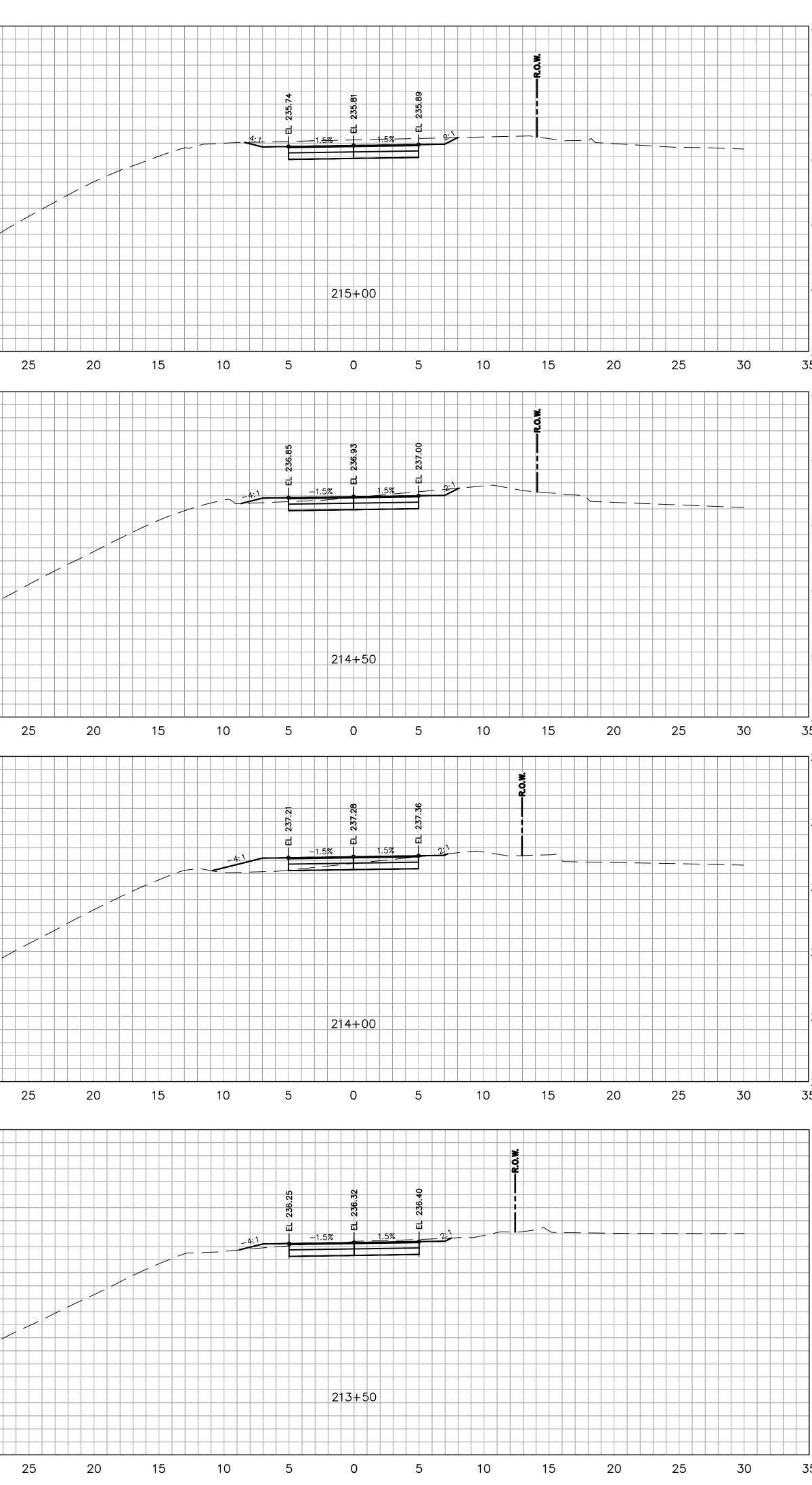


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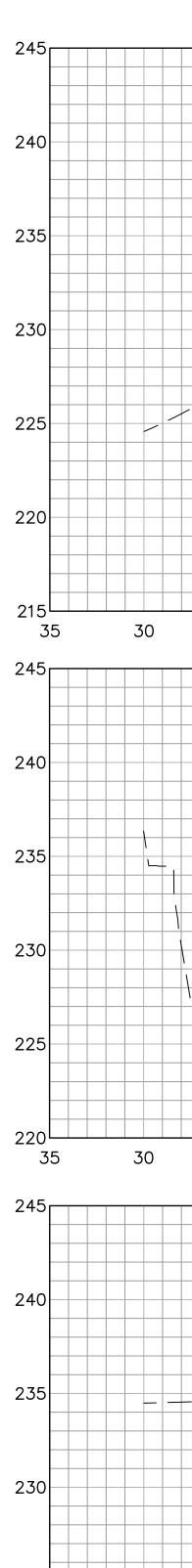
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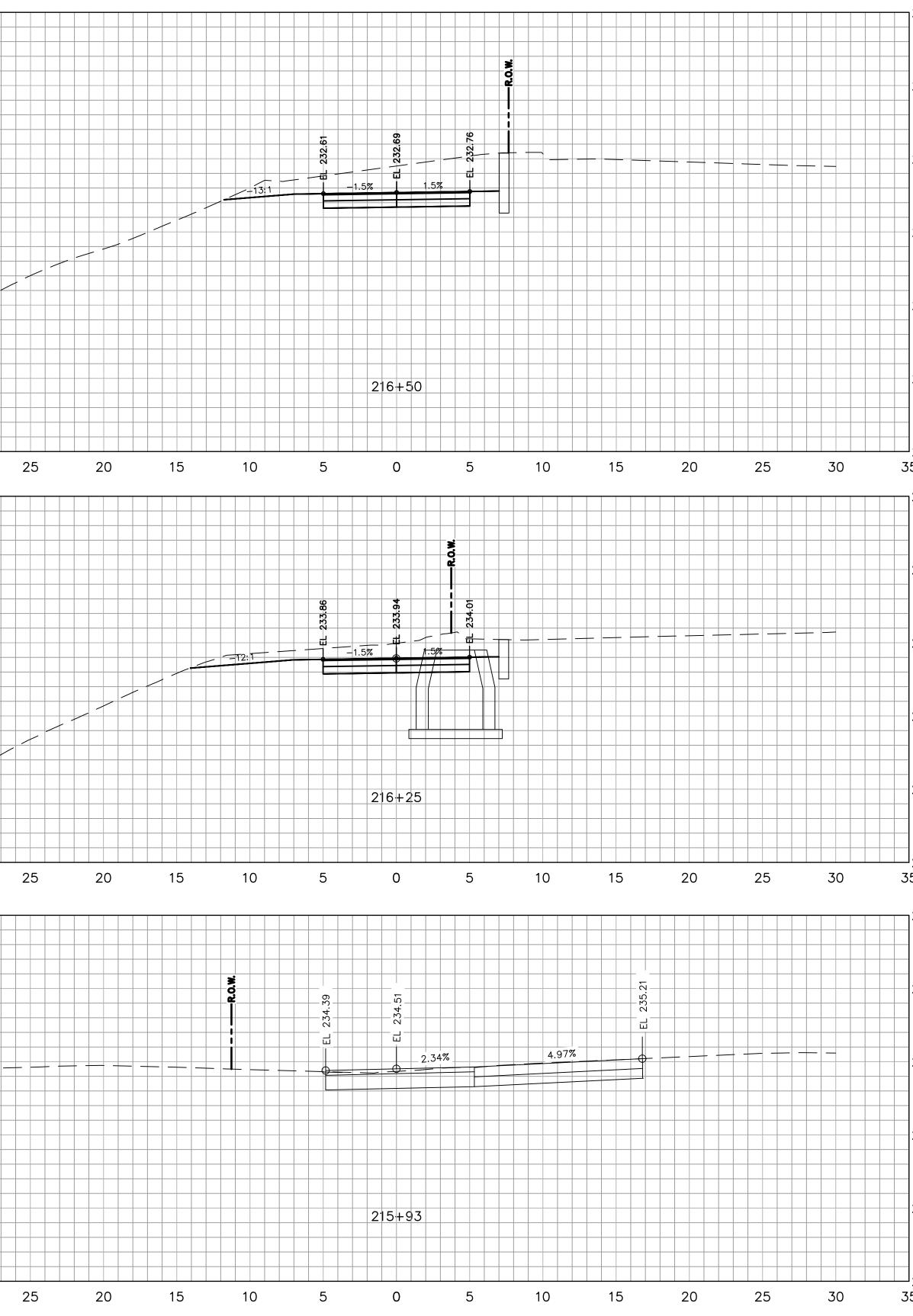


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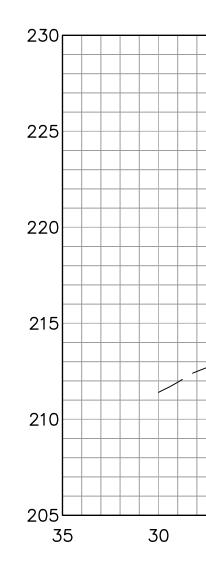
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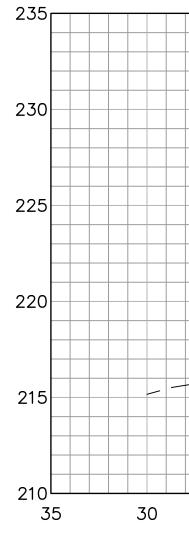
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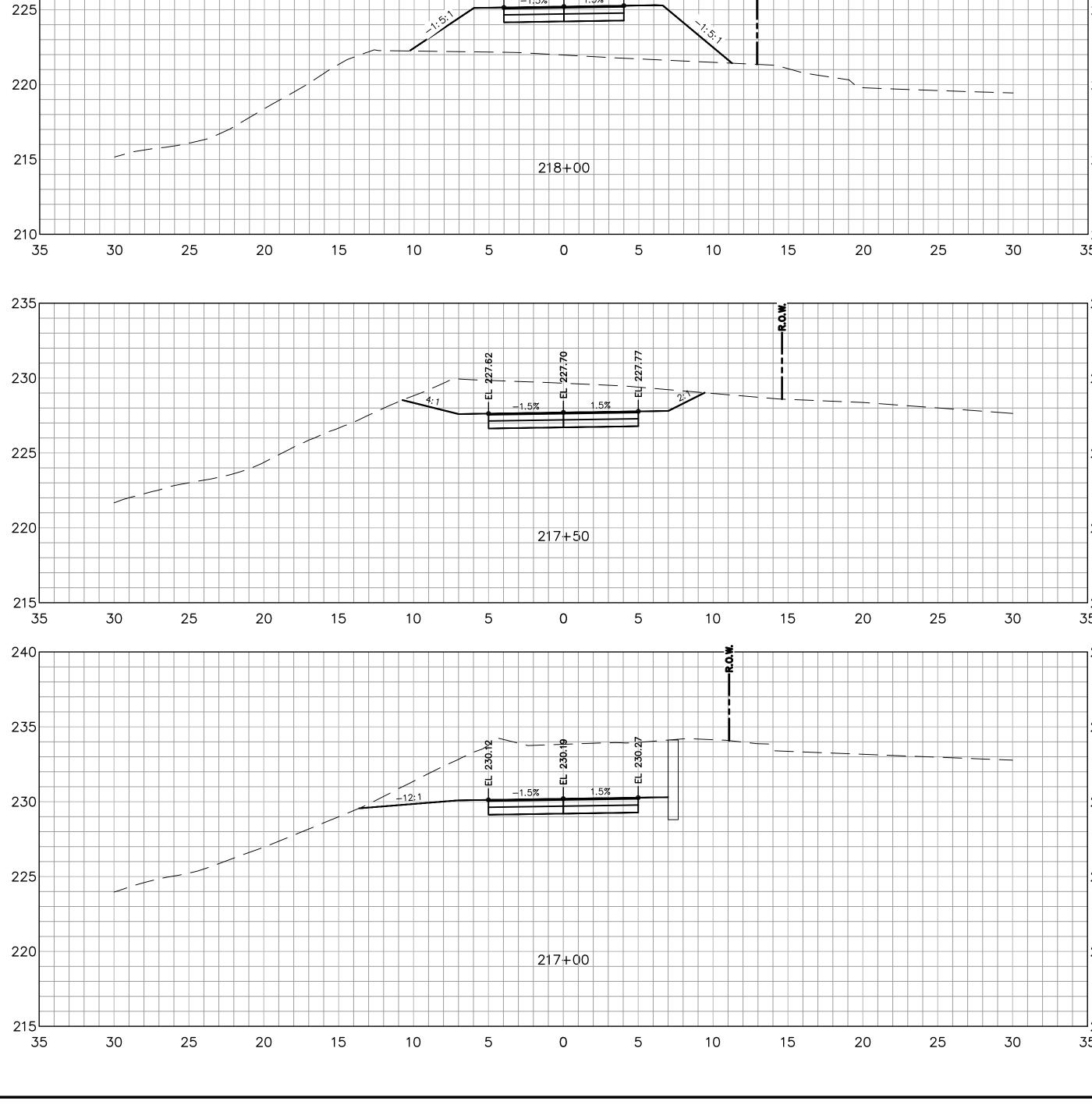


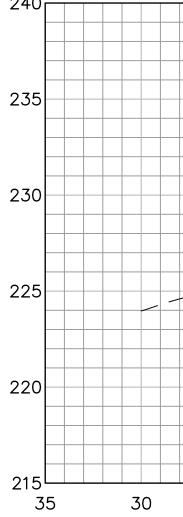


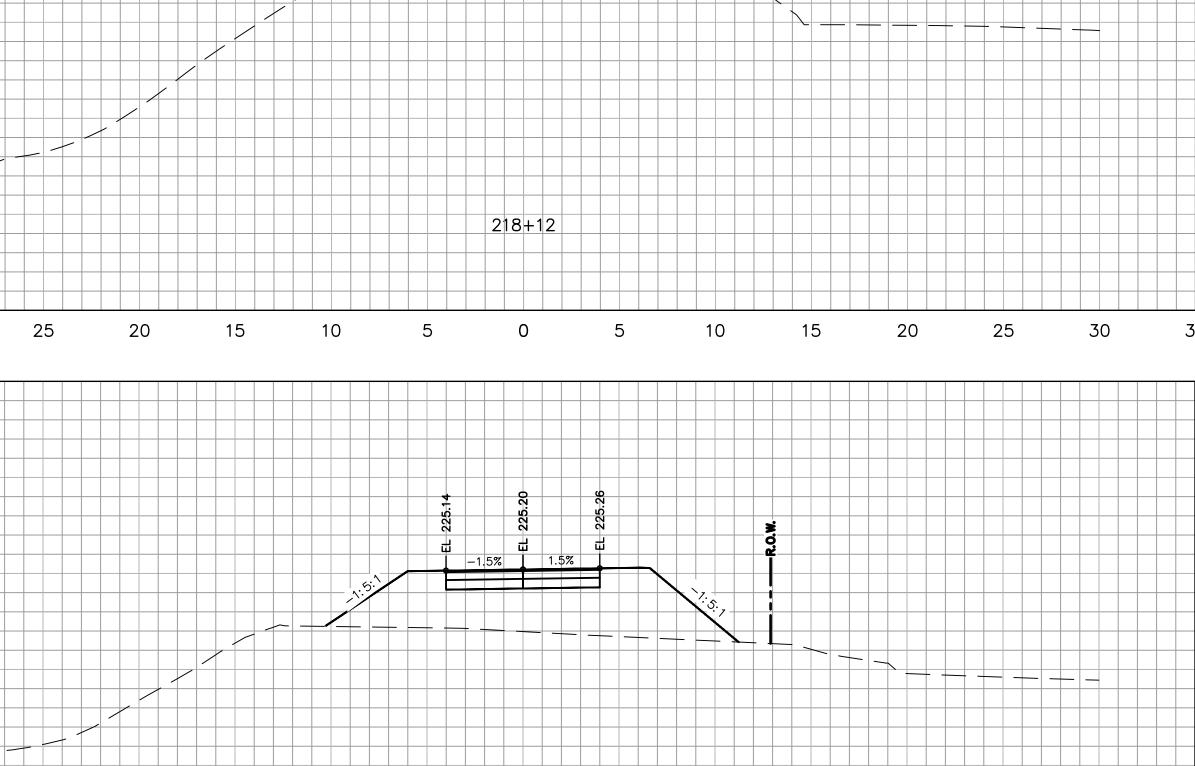
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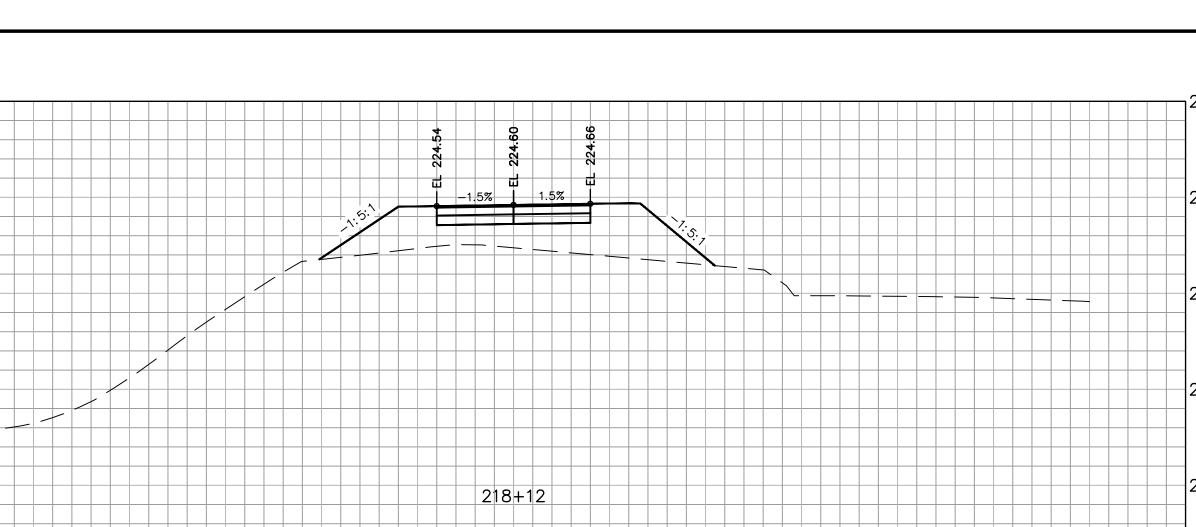






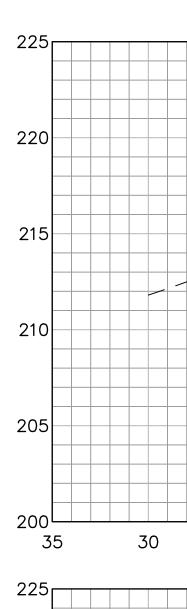


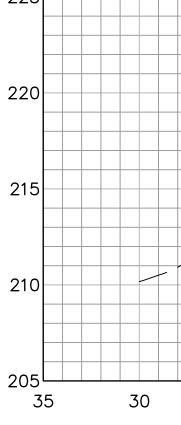


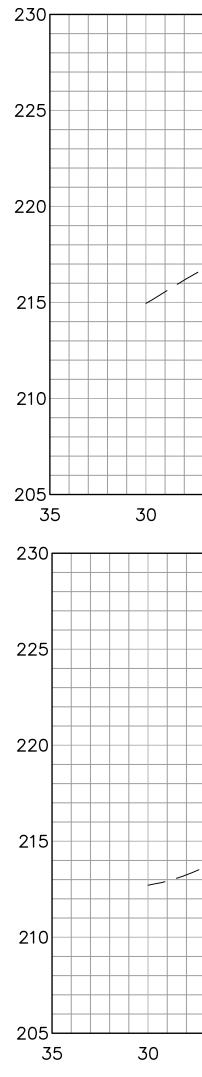


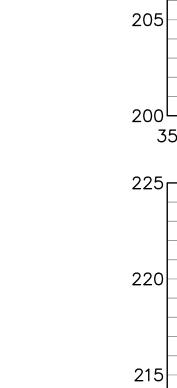
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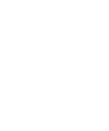


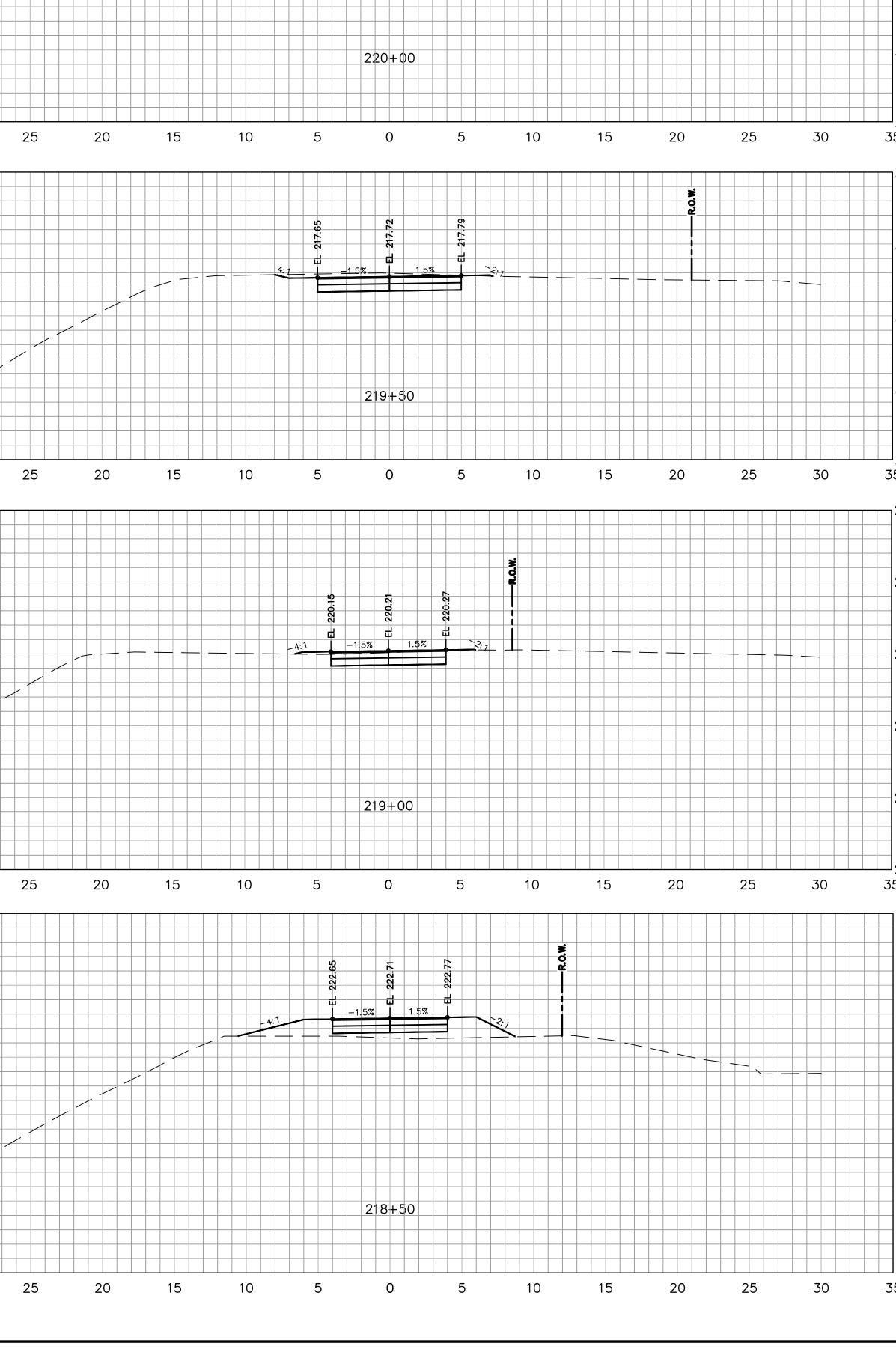


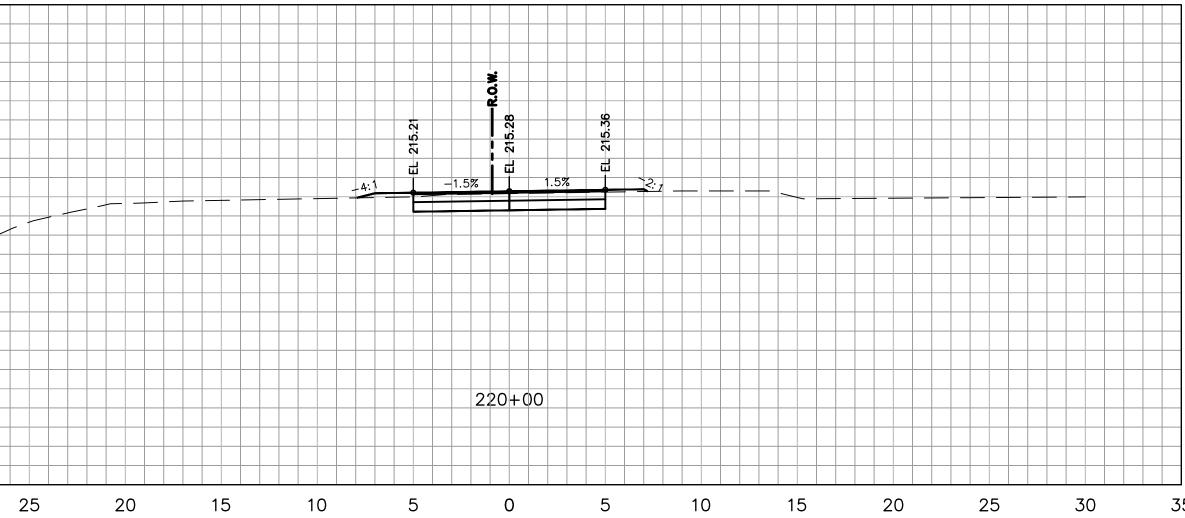




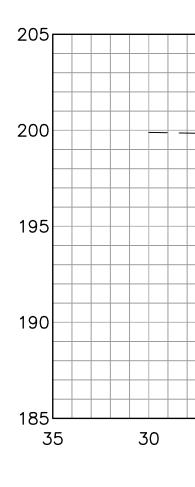


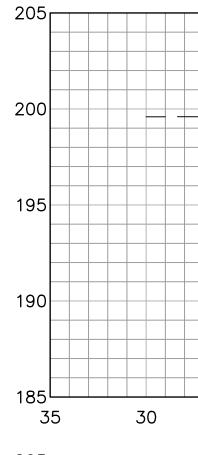


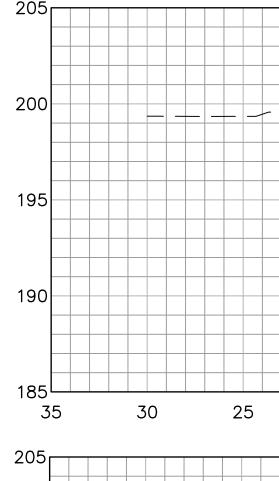


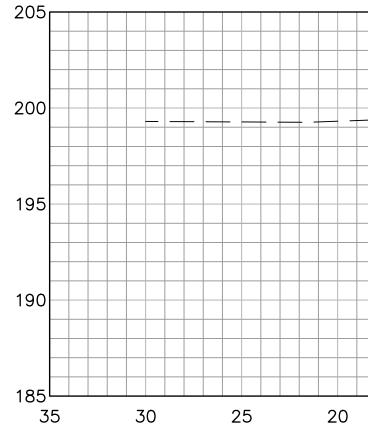


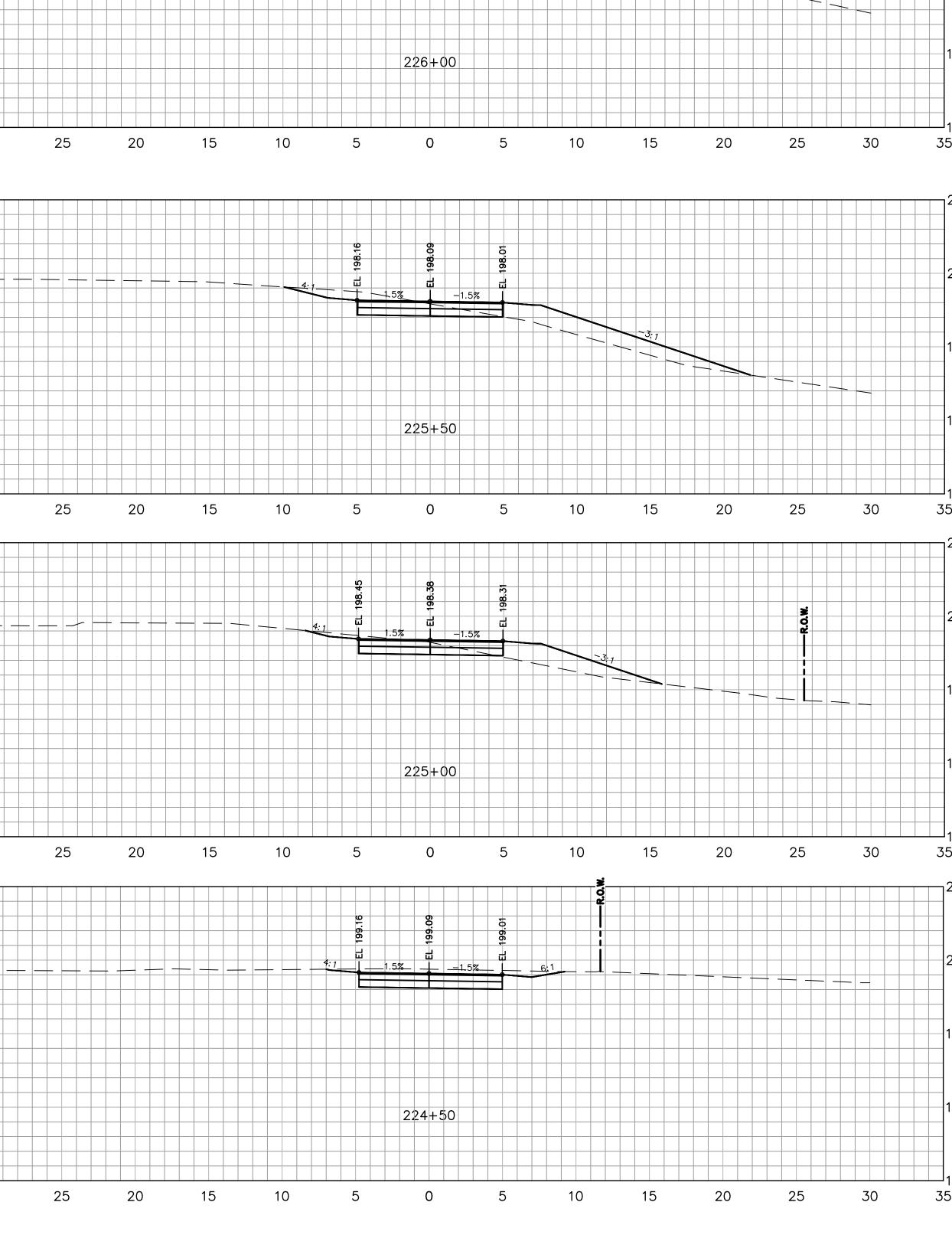
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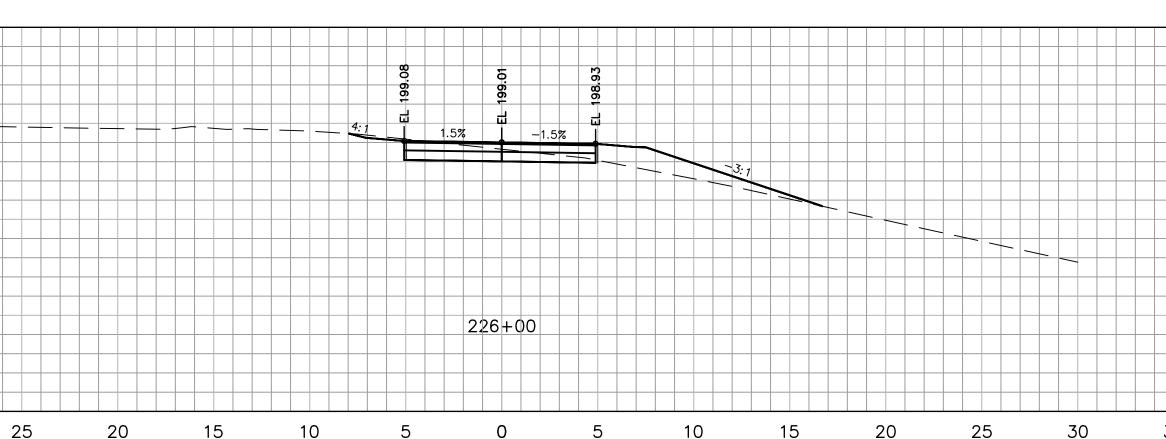




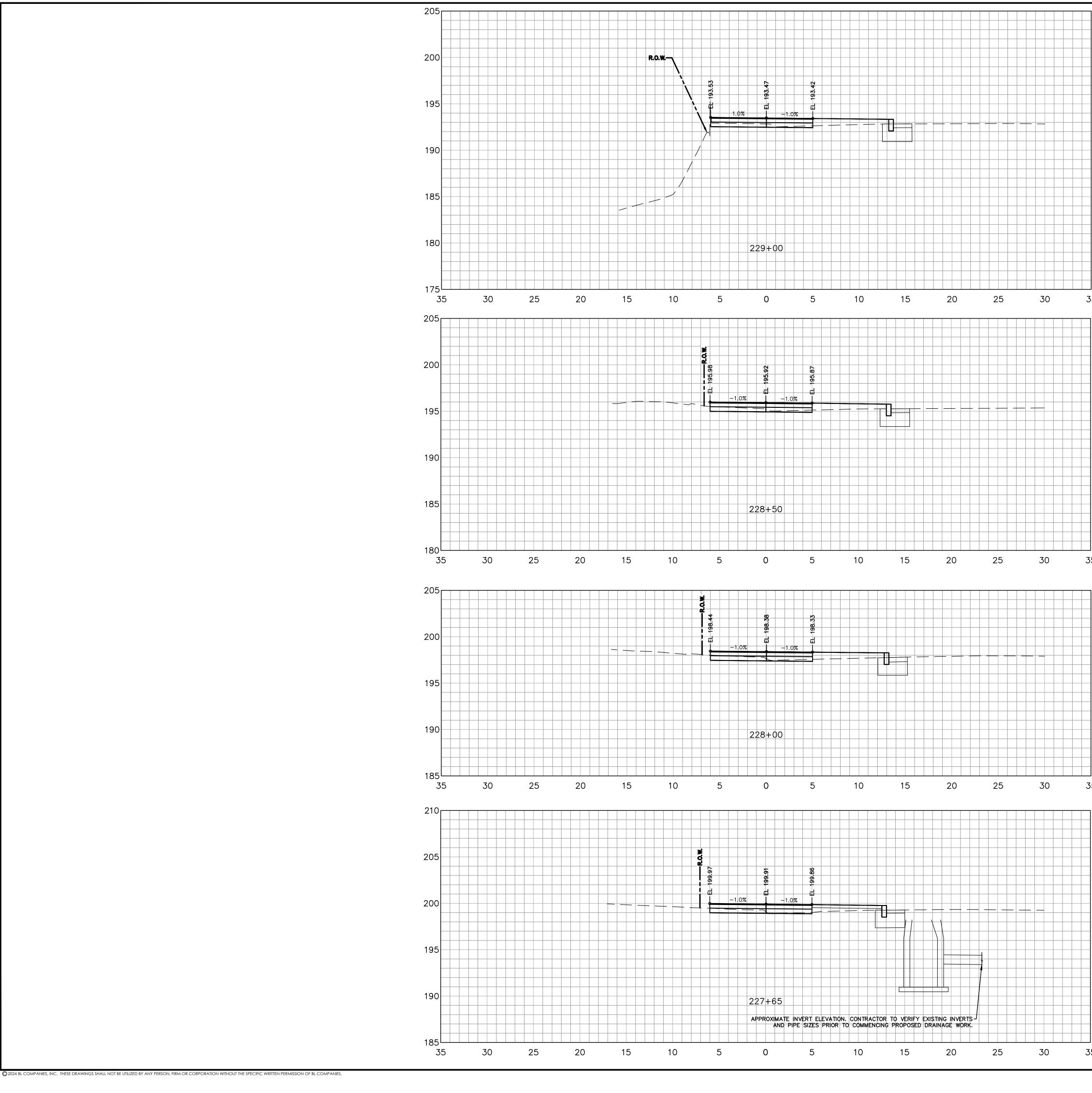








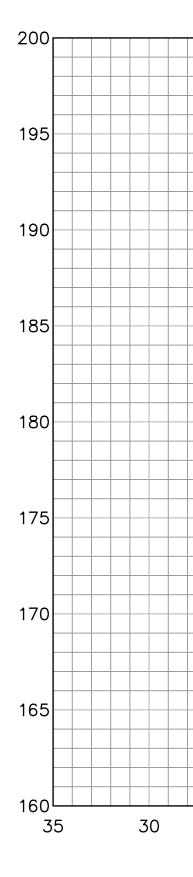
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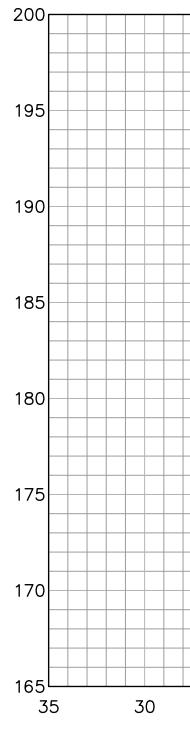


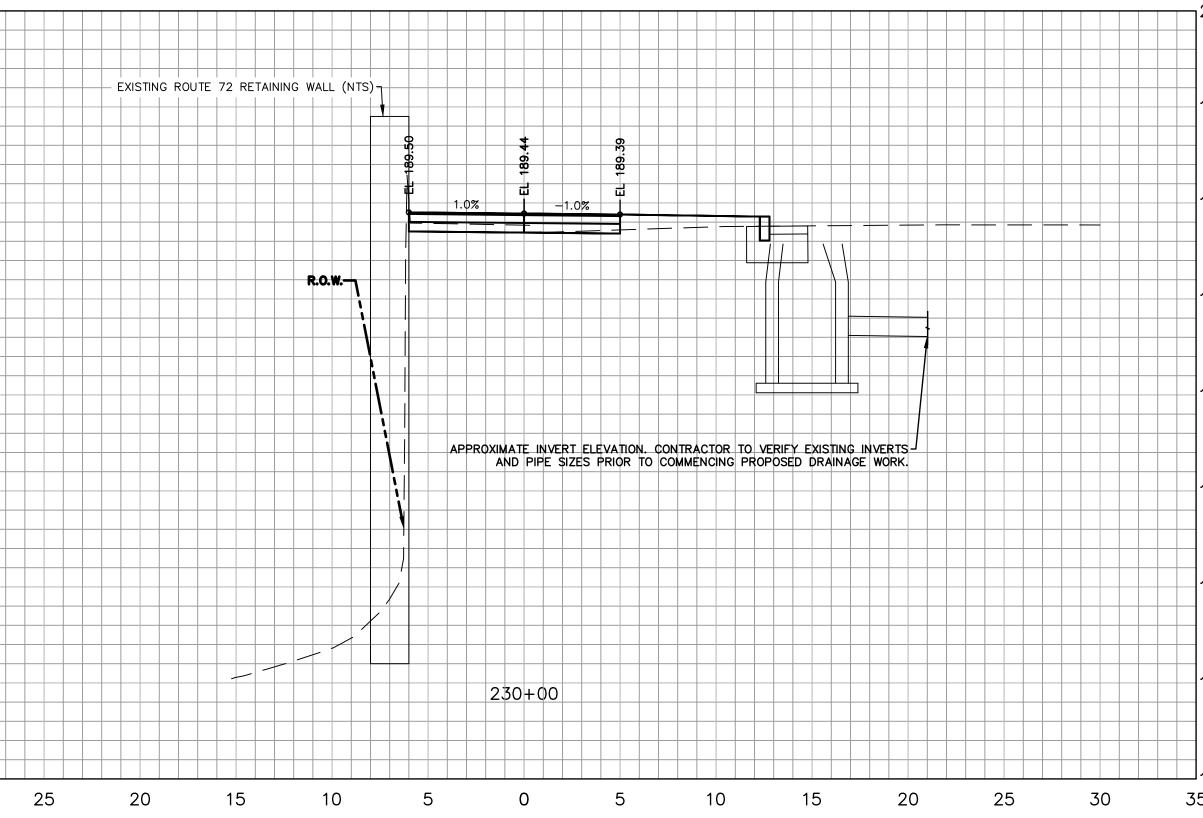
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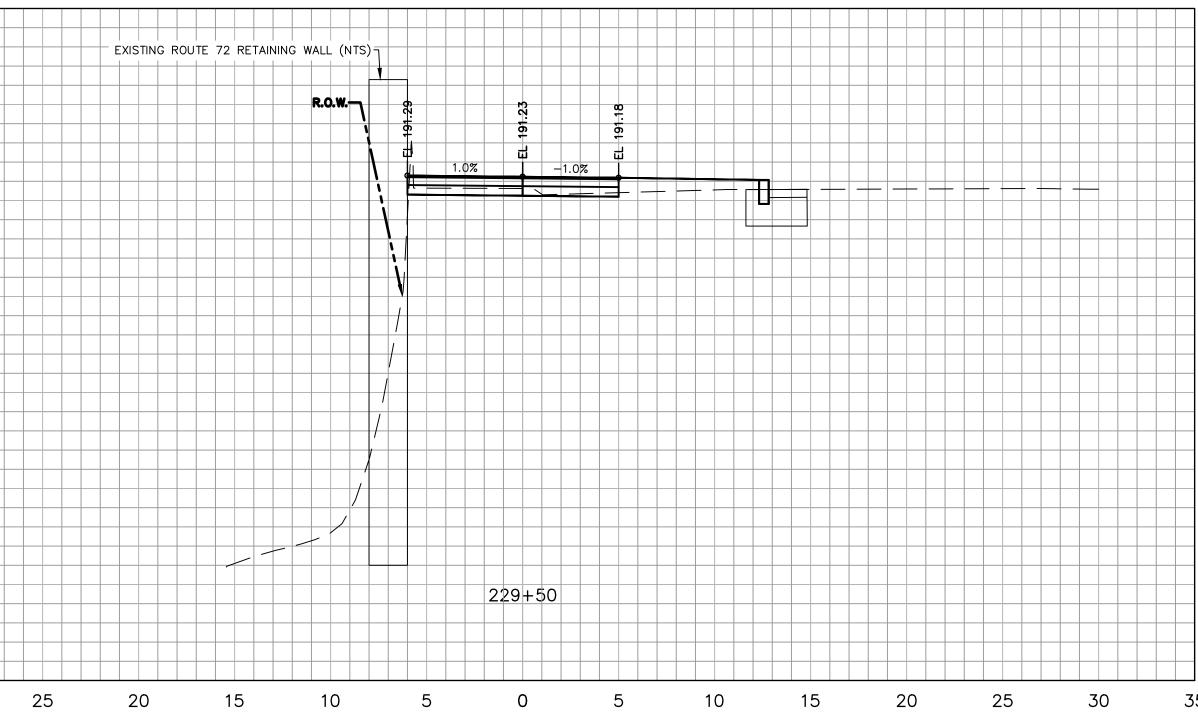
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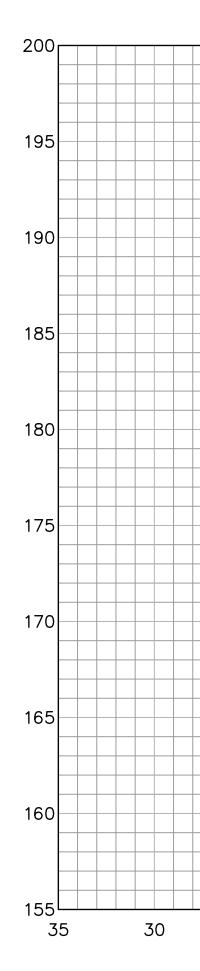


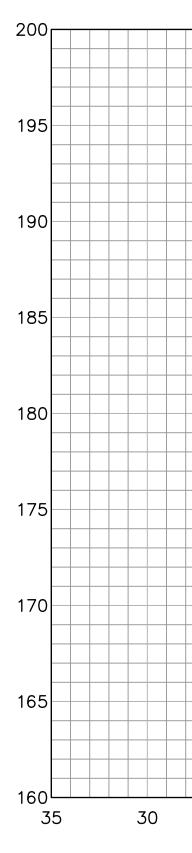


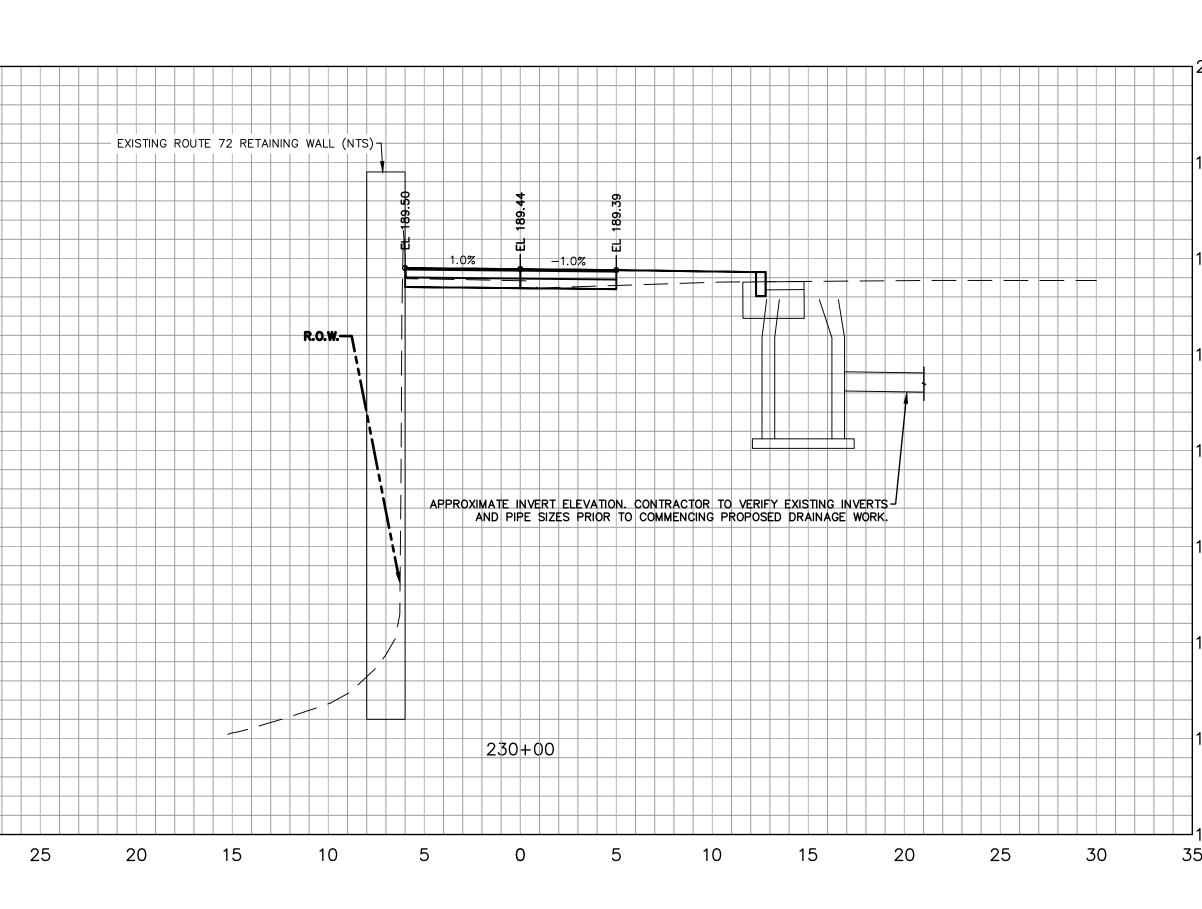


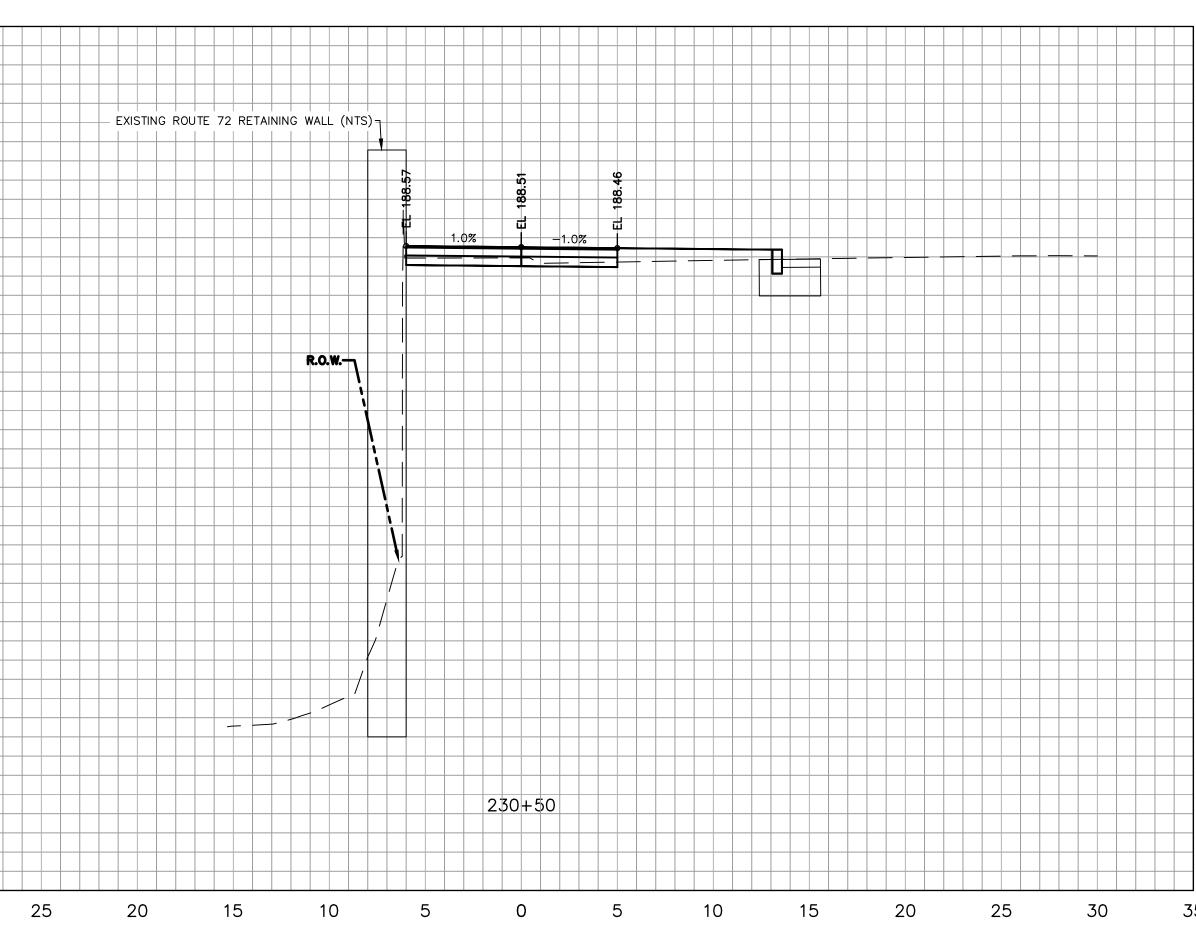
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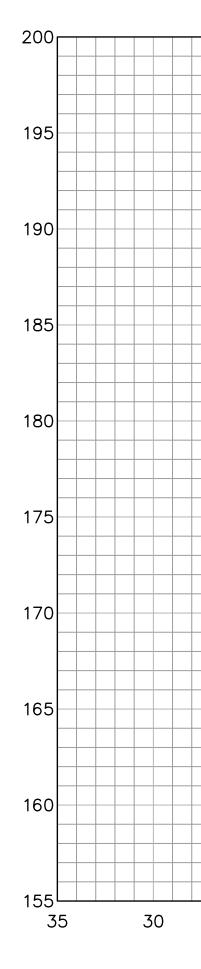


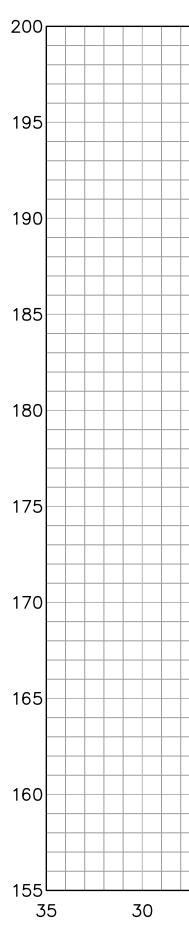


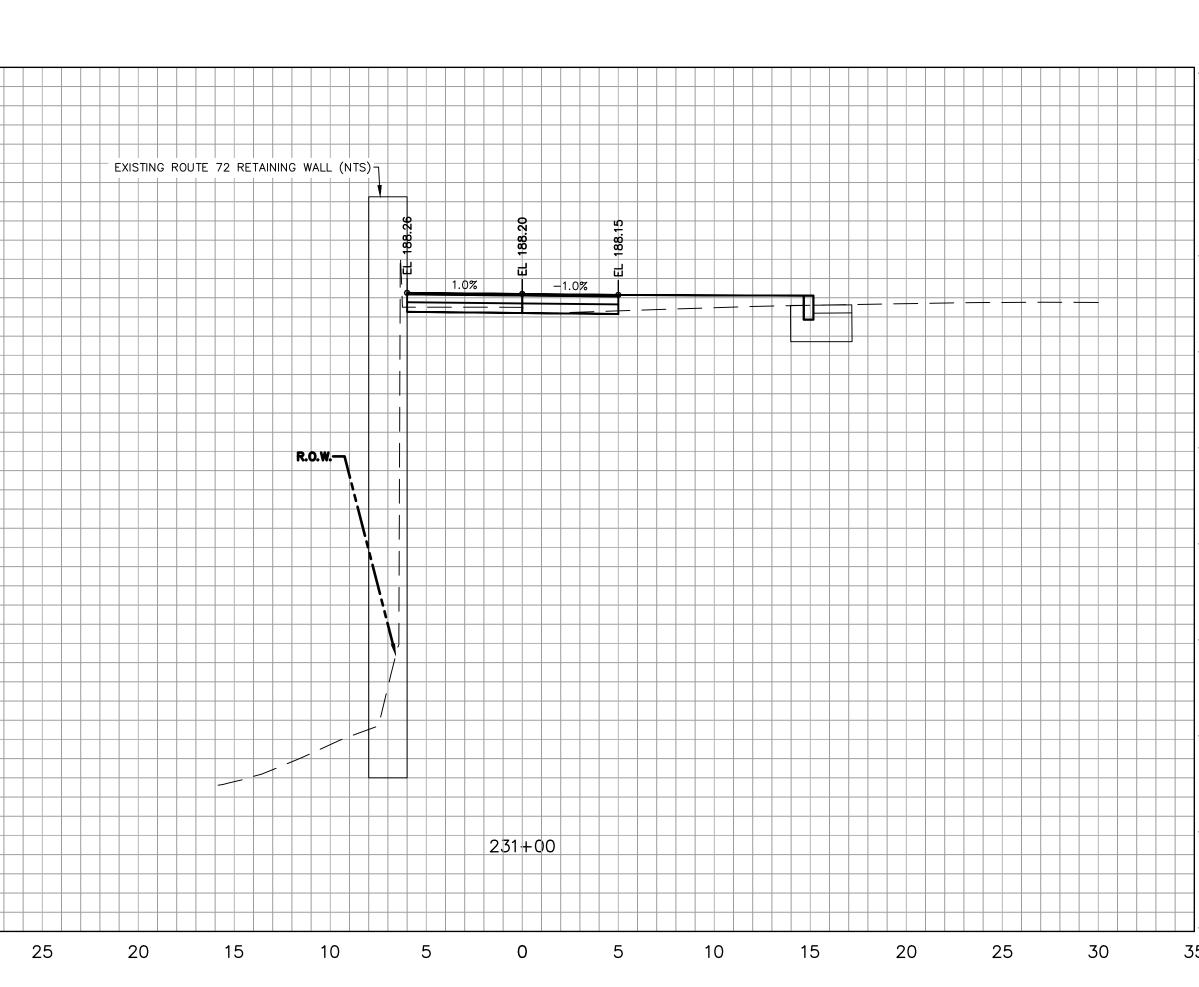


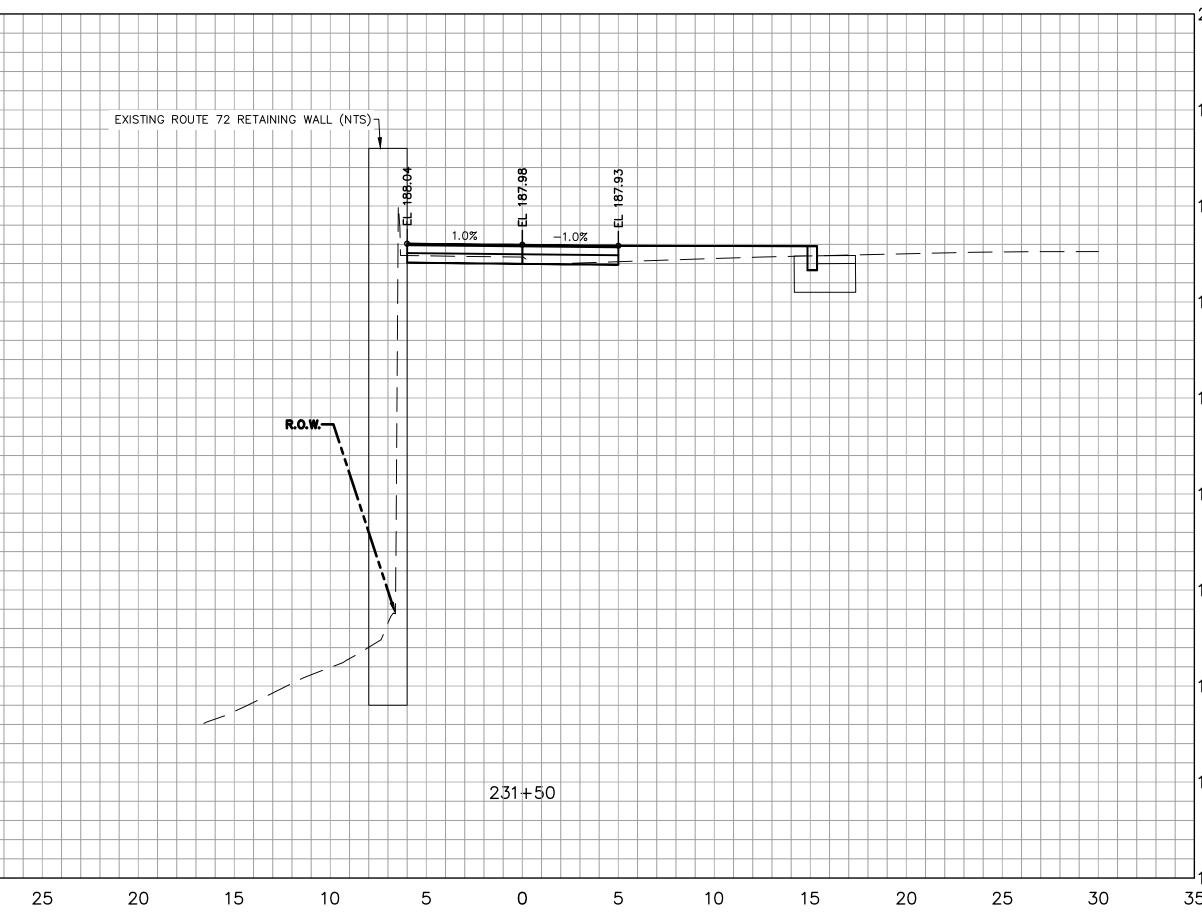
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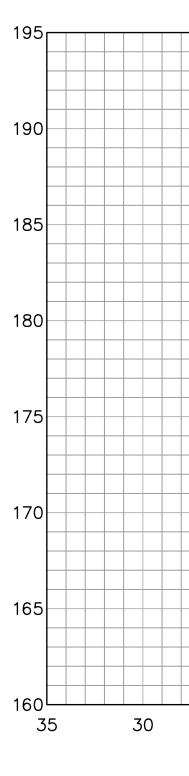


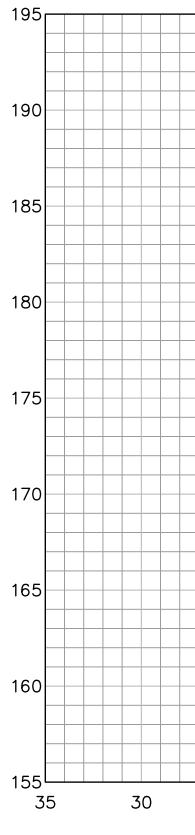


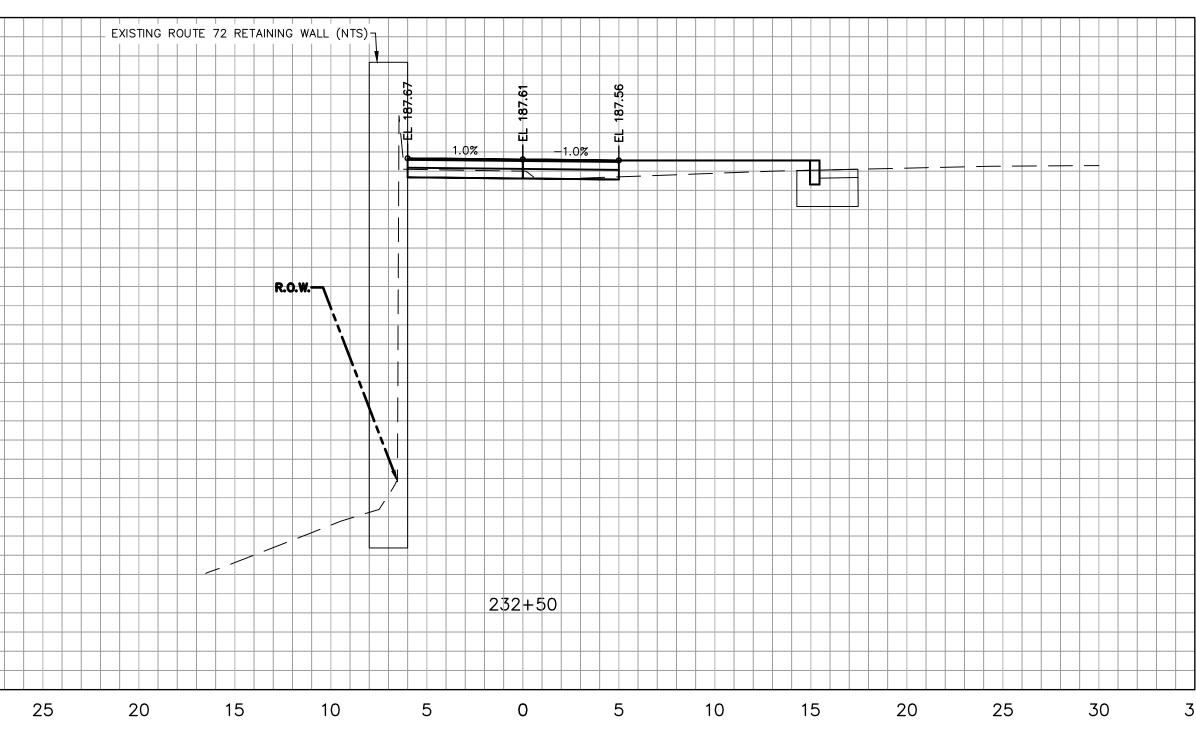


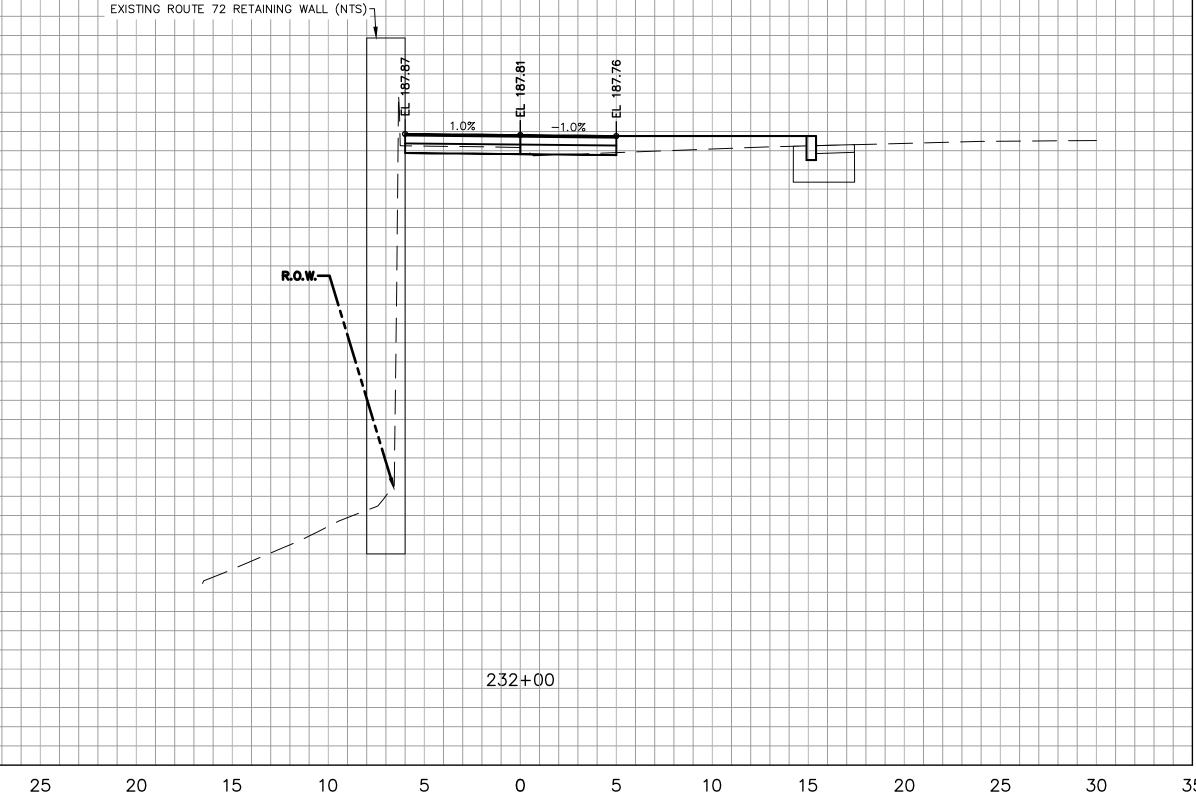
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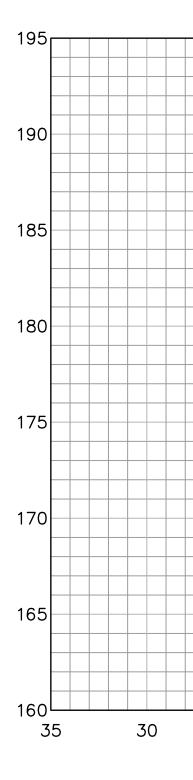


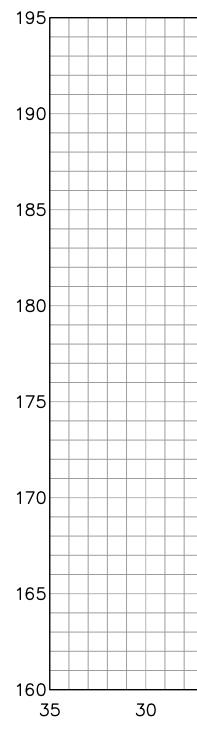


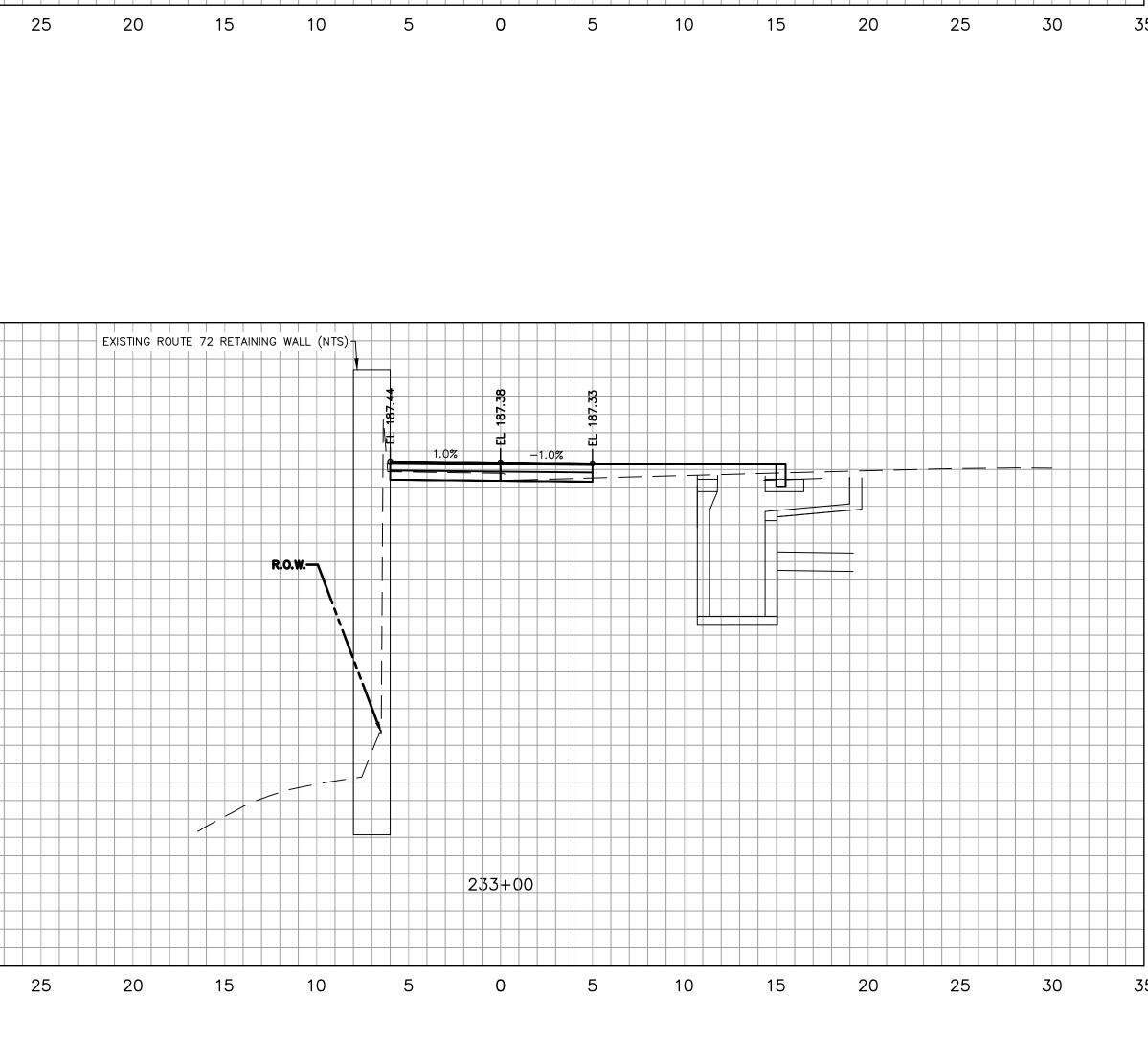


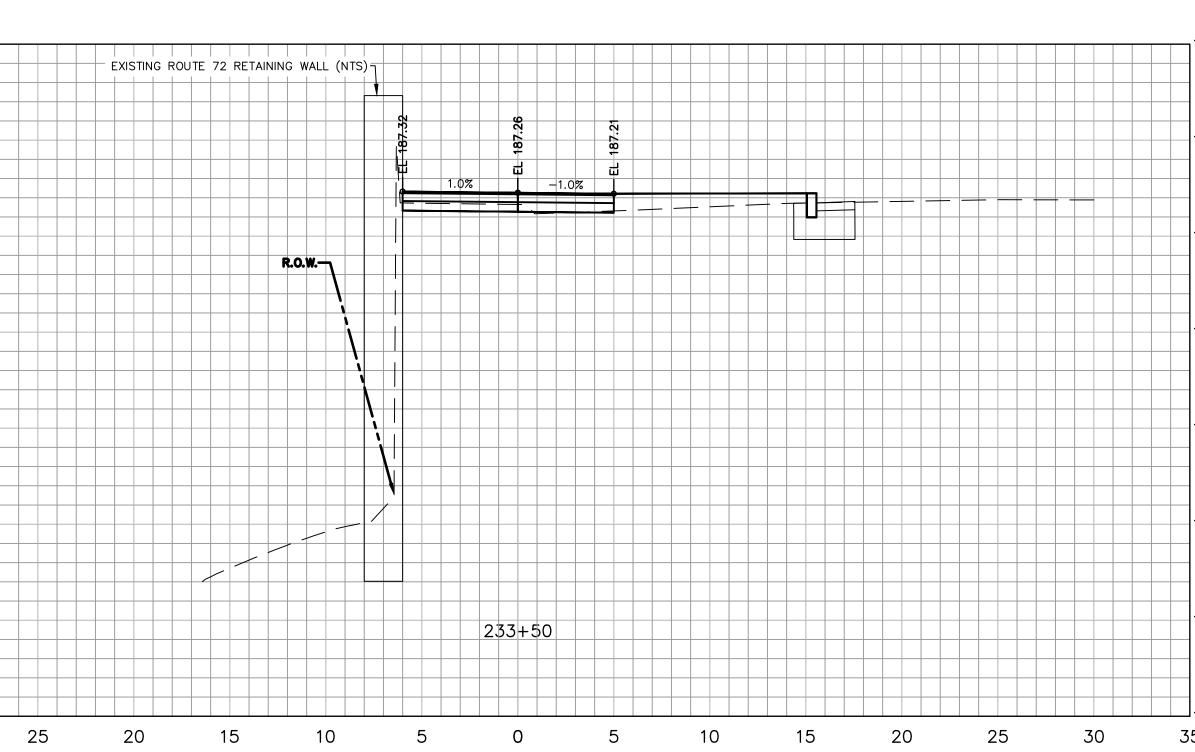
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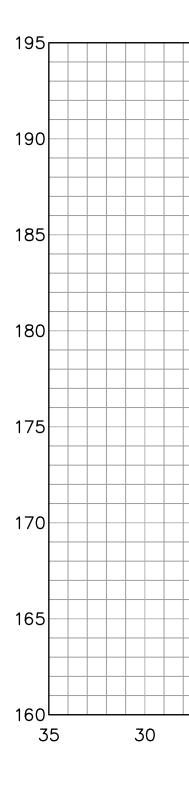


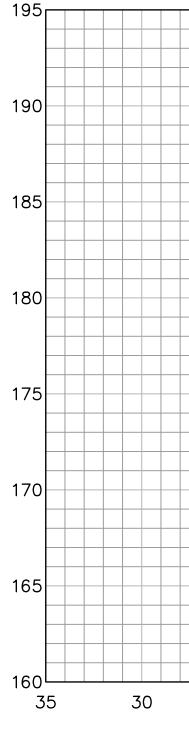


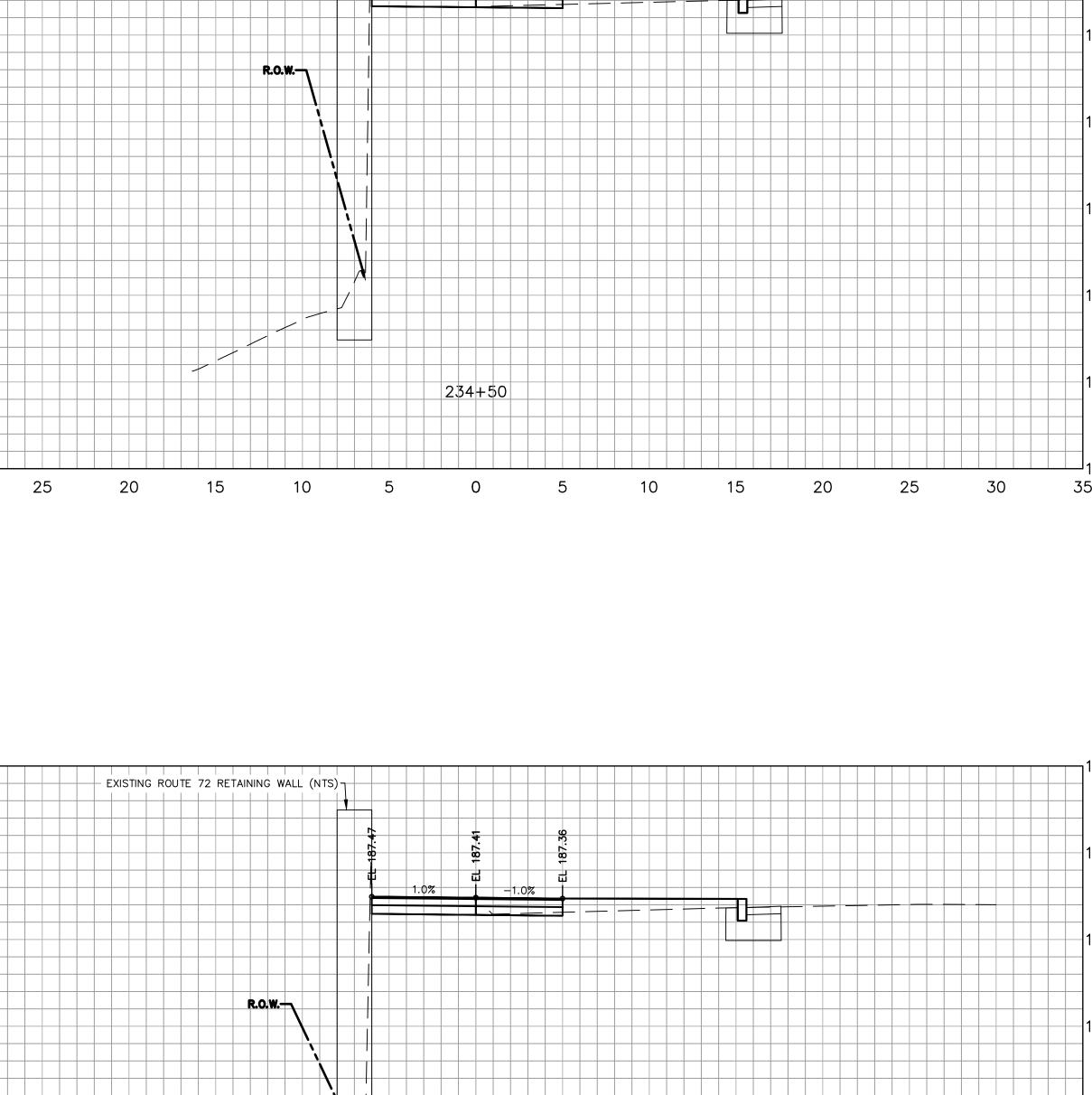


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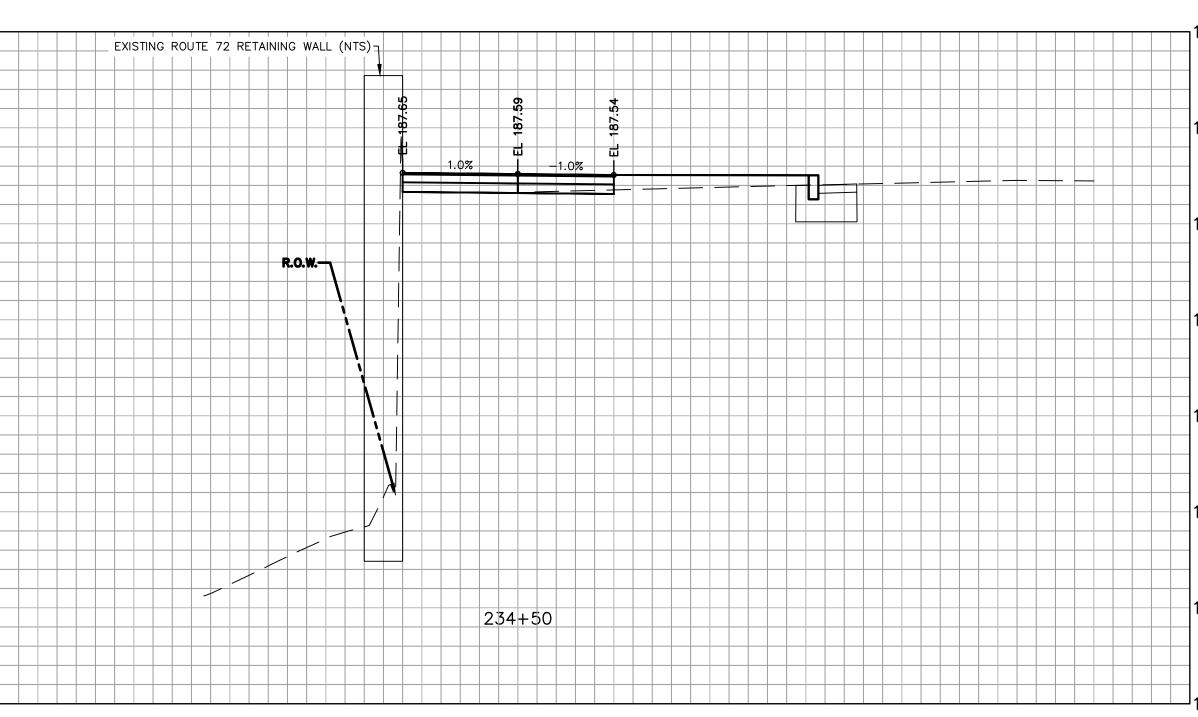
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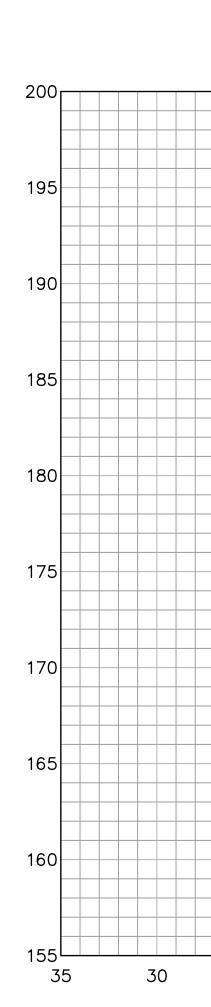


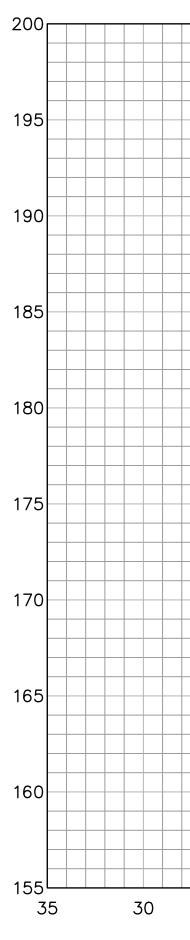
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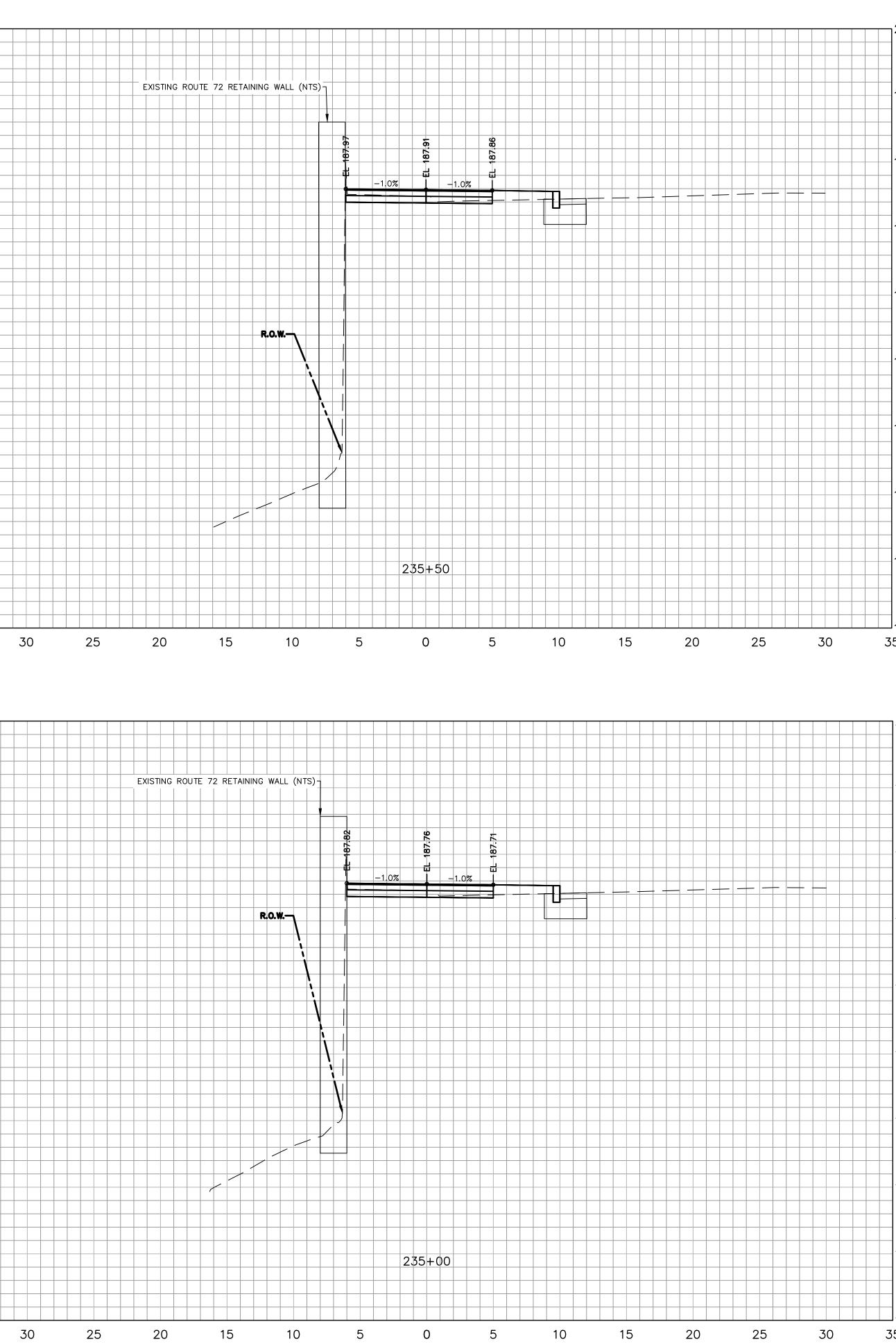


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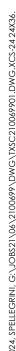
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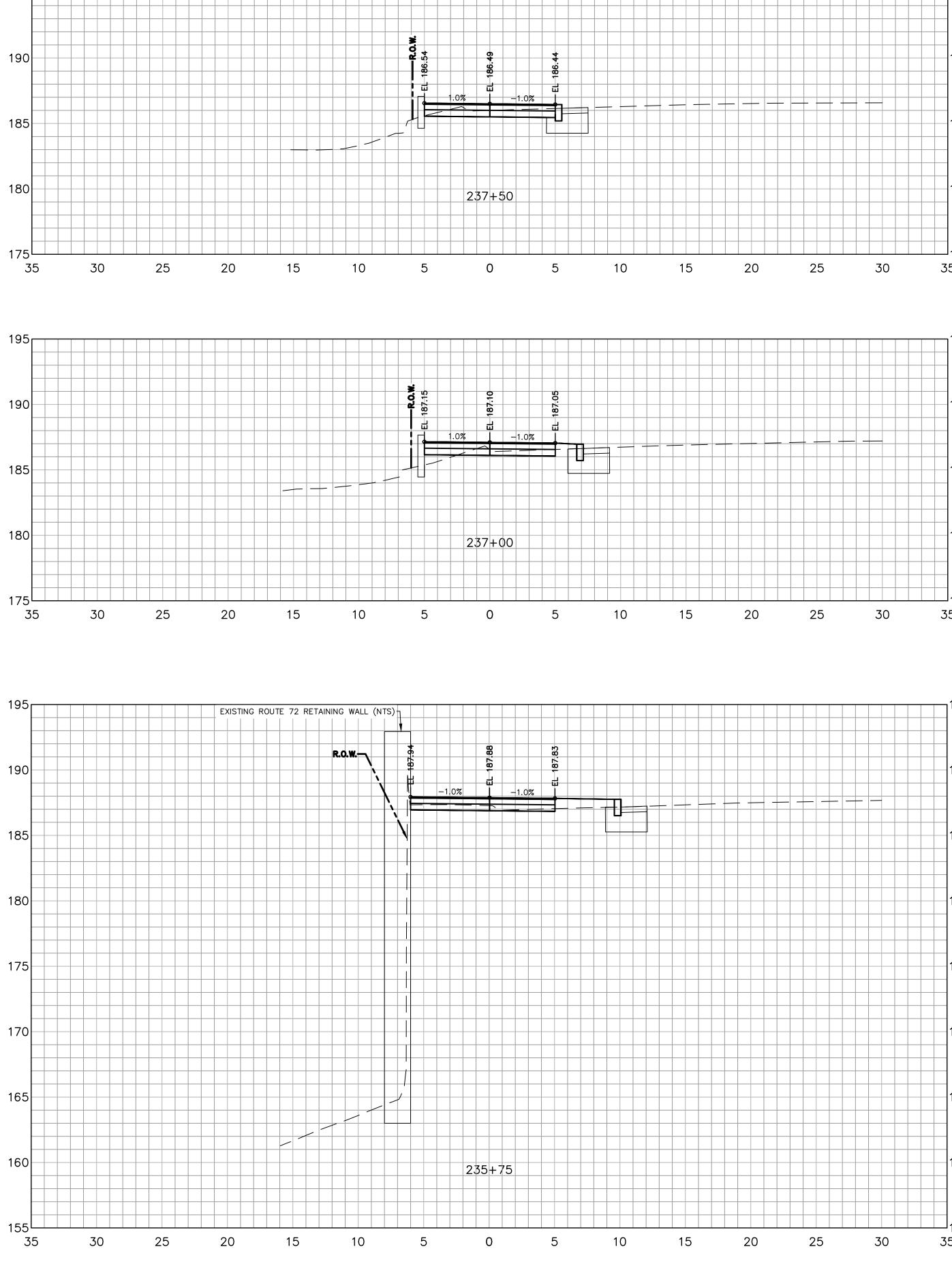


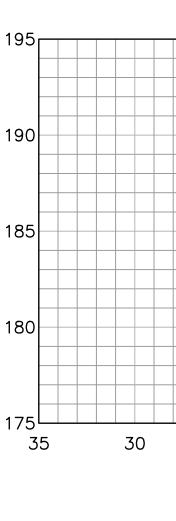


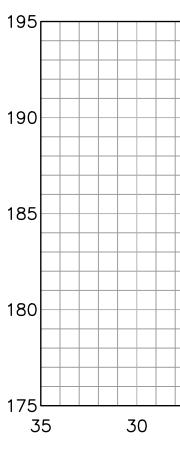


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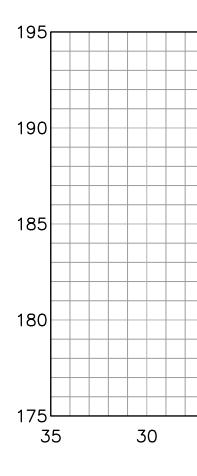


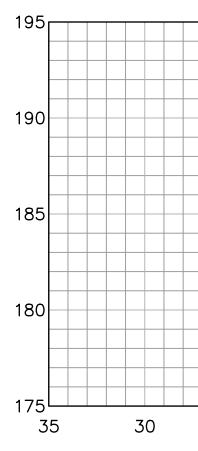


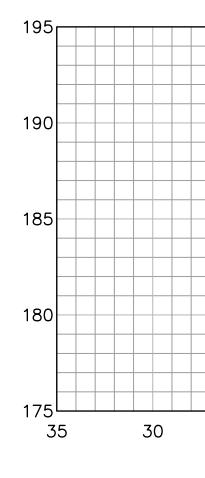


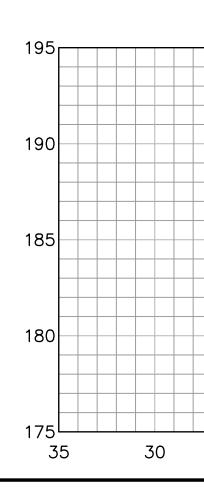


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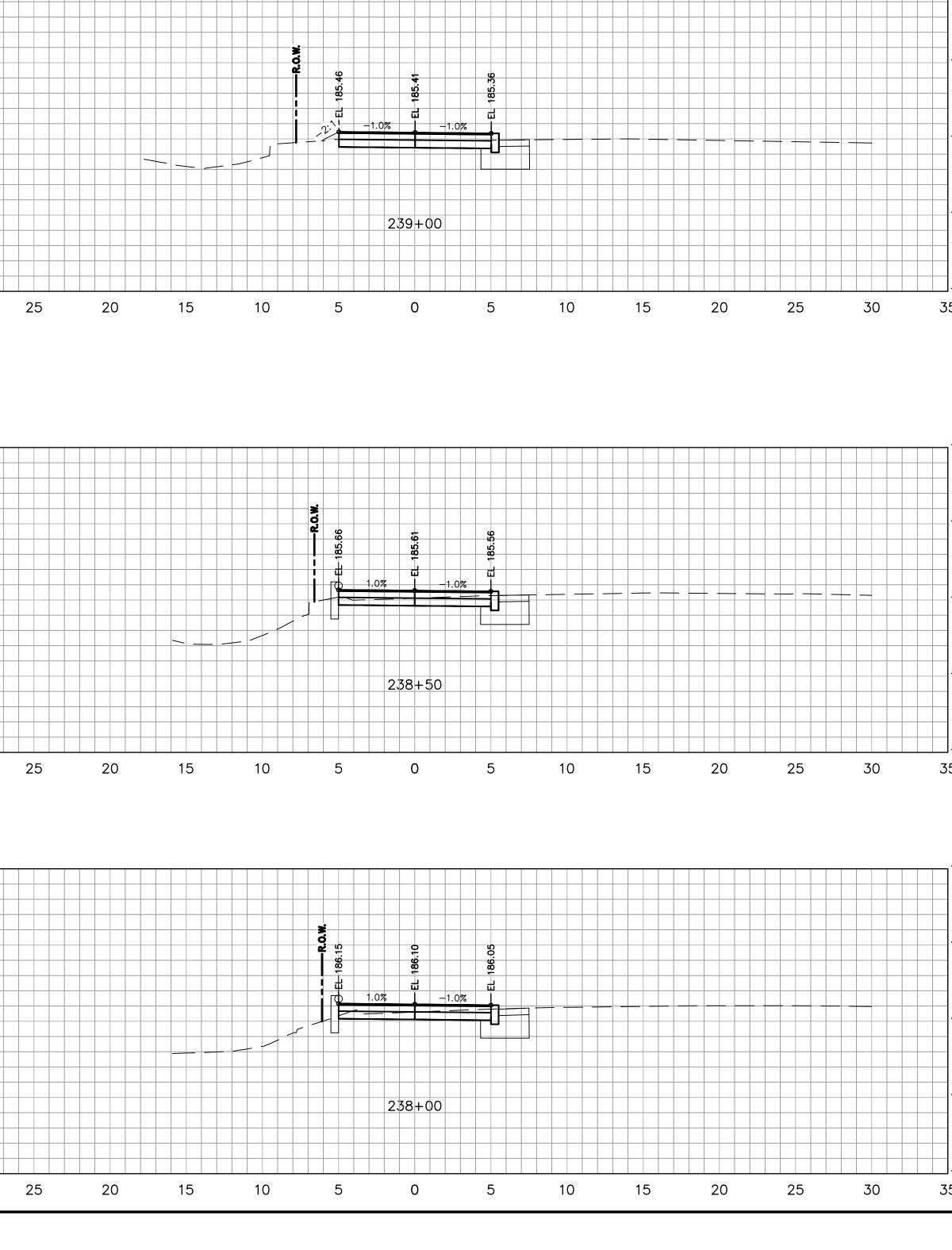


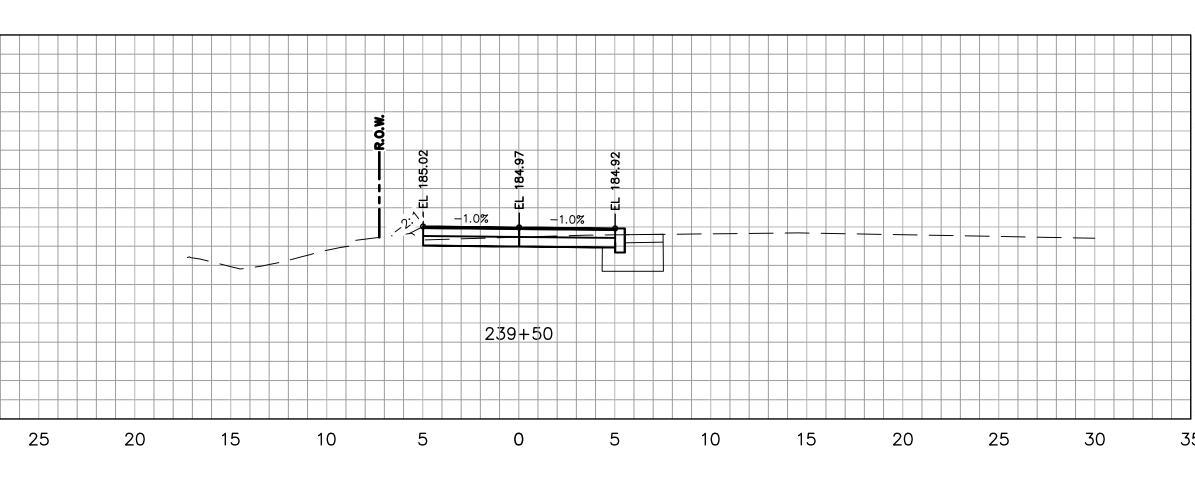






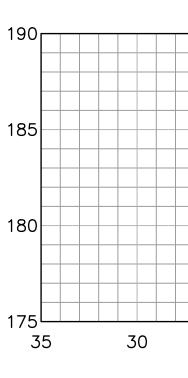
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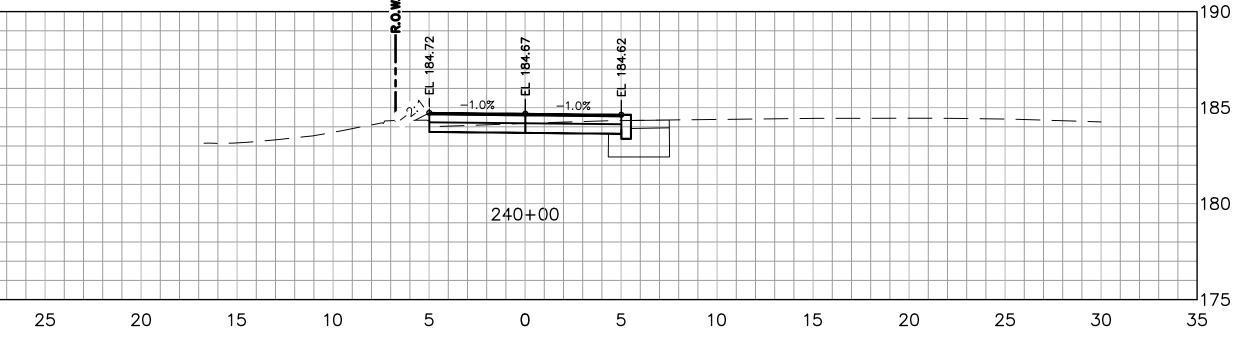




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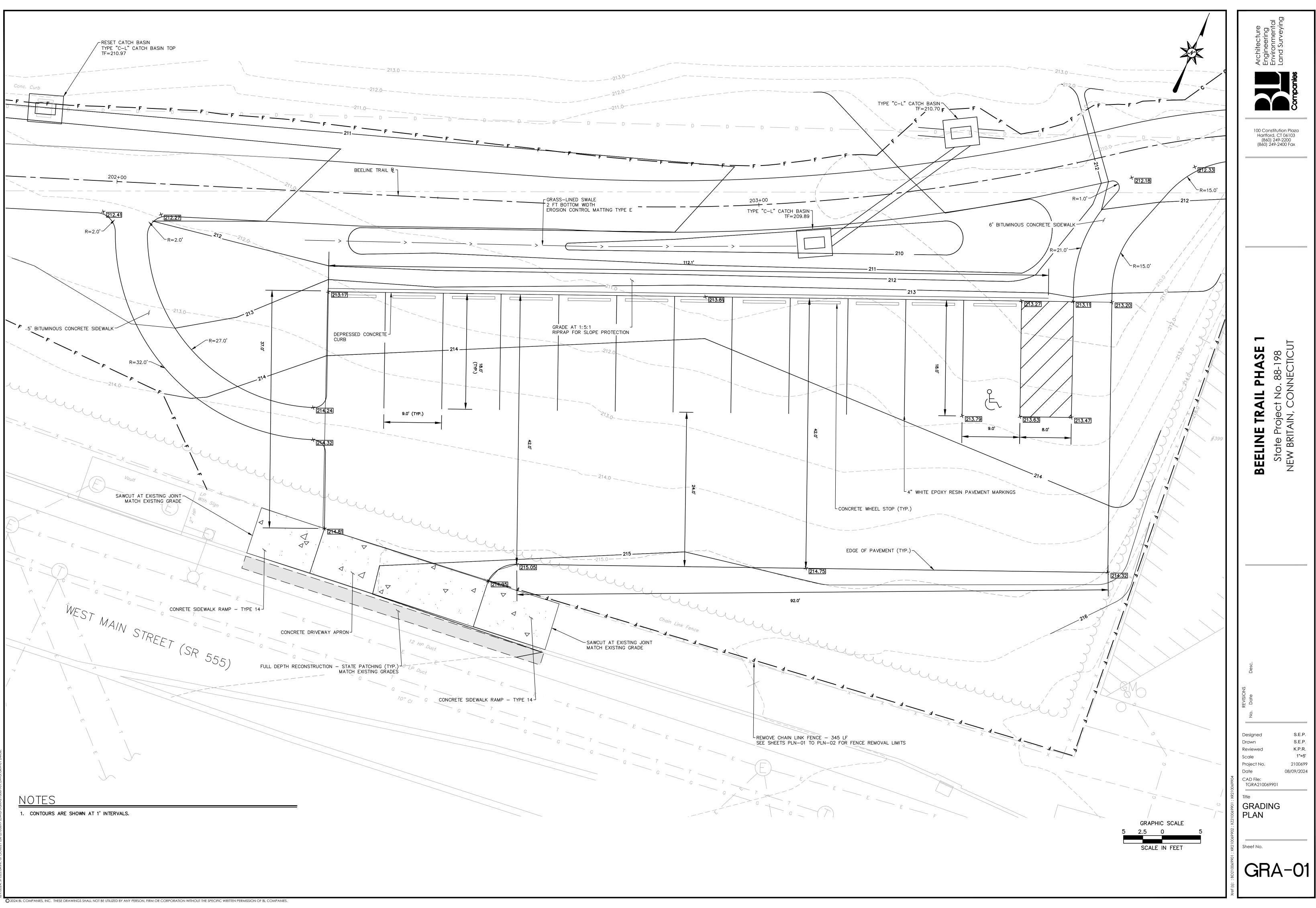


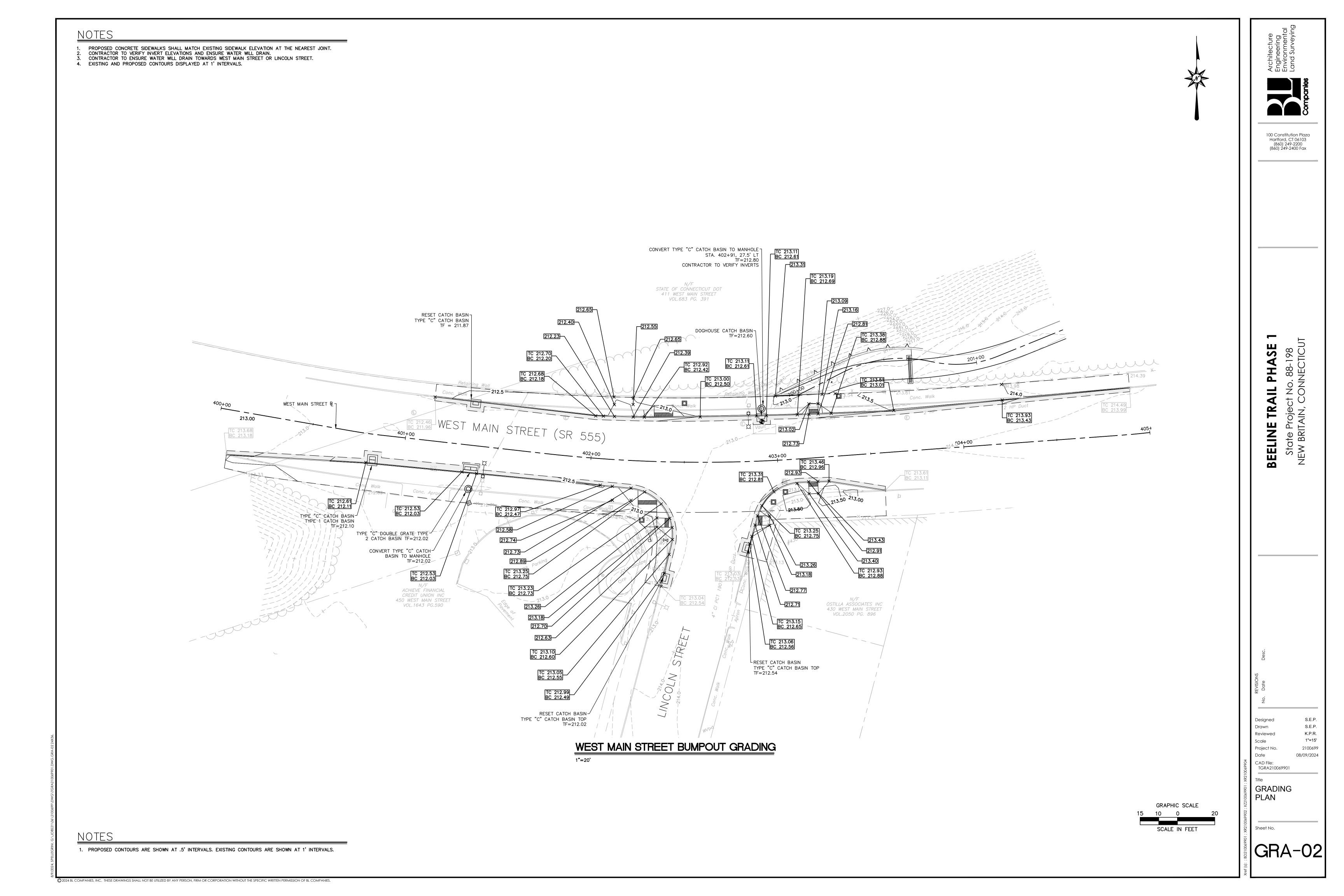
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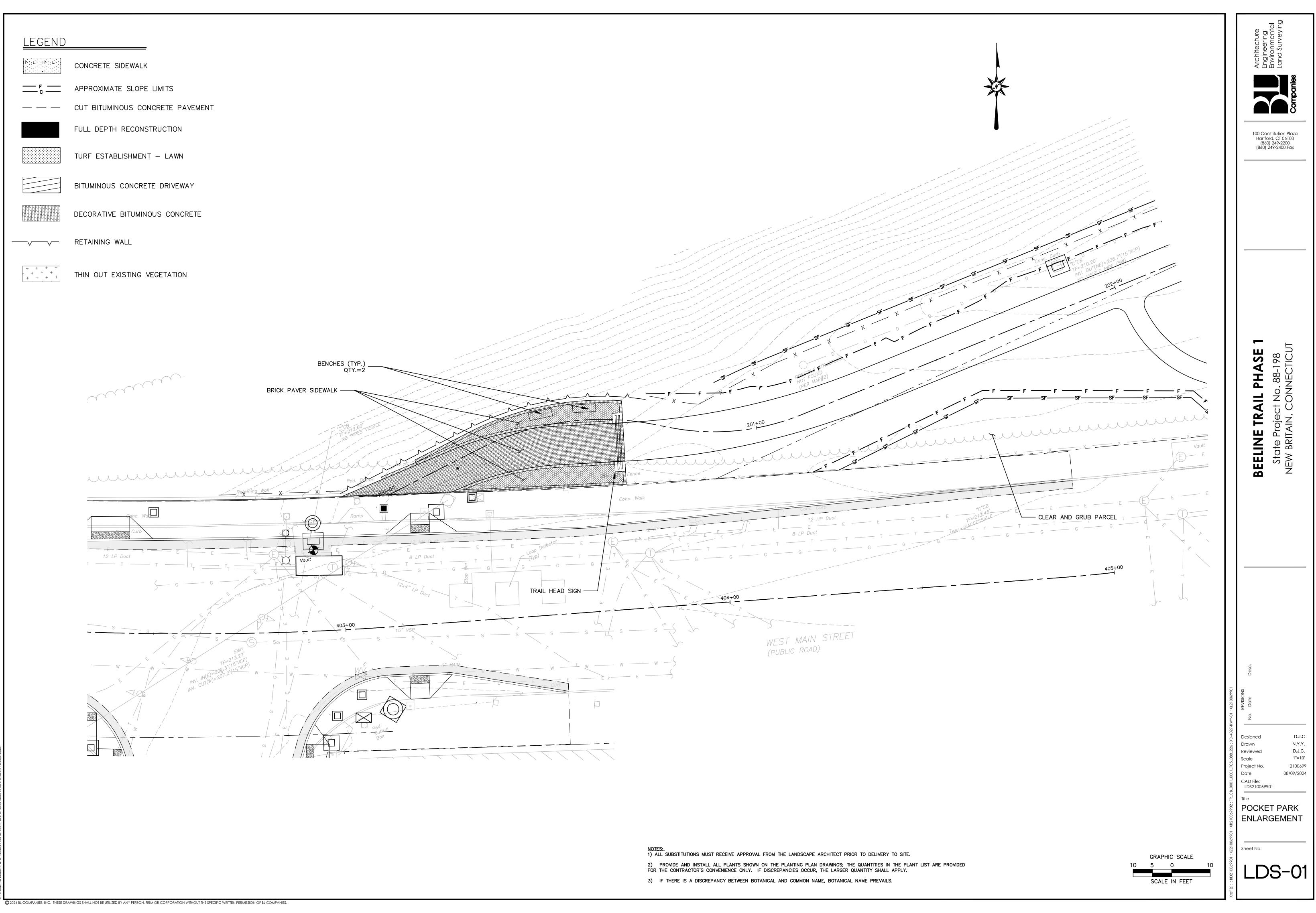
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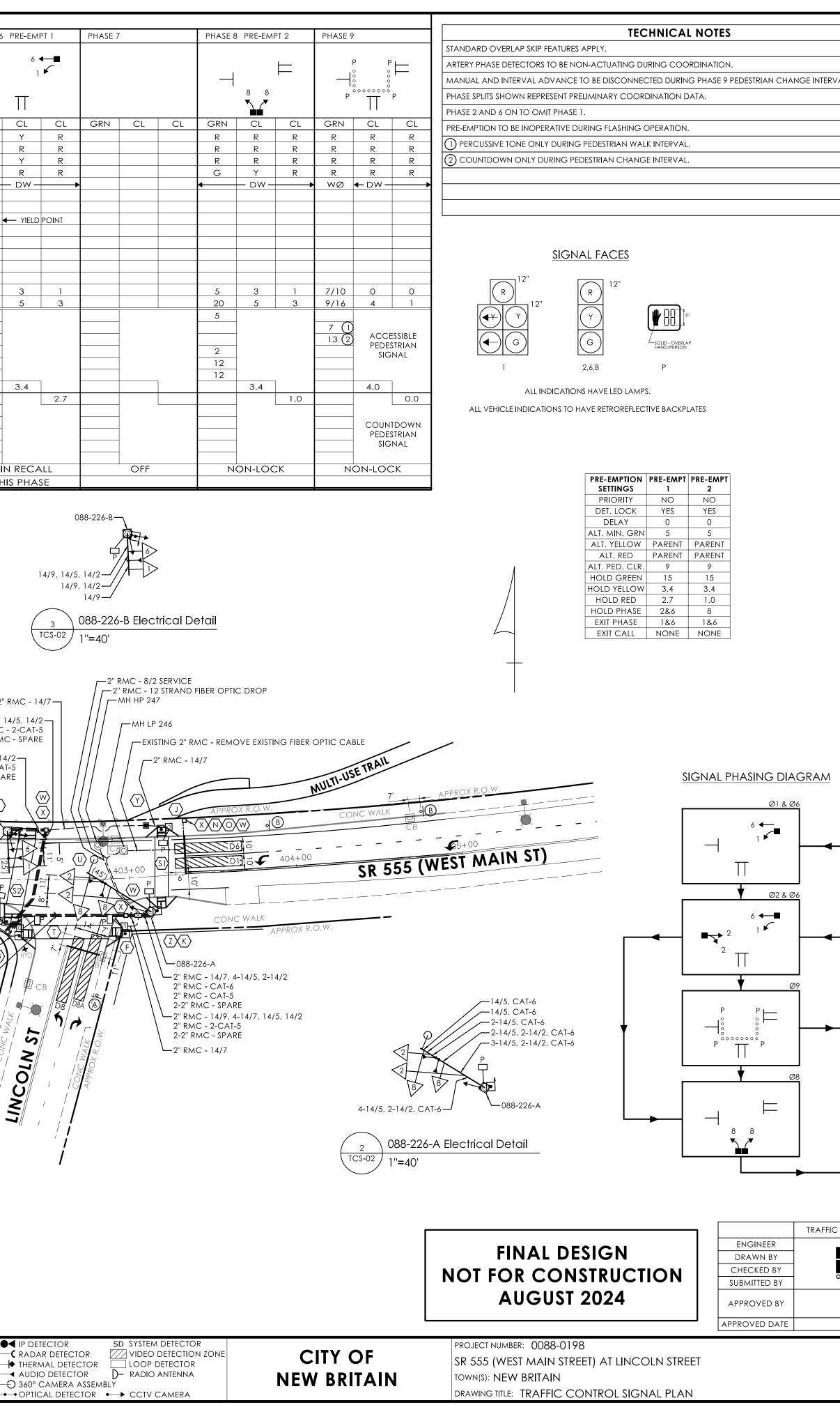
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	OFFICE RECORD	
	REV # TIR #088-2401-01 SM # SIGNAL REVISED:	
	SIGNAL REVISED: REPLACED SIGNAL EQUIPMENT UNDER STATE PROJECT NO. 0088-0198.	
AL.		

### **CONSTRUCTION NOTES**

ALL EQUIPMENT IS NEW, EXCEPT WHERE NOTED.

STAKE ALL R.O.W. PRIOR TO EXCAVATION.

ALL PEDESTRIAN PUSH BUTTONS TO BE "ACCESSIBLE PEDESTRIAN SIGNAL AND DETECTOR (TYPE A)". INSTALL SIGN NO. 31-0856 WITH APPROPRIATE ARROW AT PEDESTRIAN PUSH BUTTON LOCATIONS.

REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISIONS.

ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF NEW BRITAIN PRIOR TO INSTALLATION.

THE LOCATION OF TRAFFIC SIGNAL FOUNDATIONS WHEN IN OR ADJACENT TO SIDEWALKS SHALL BE VERIFIED PRIOR TO INSTALLATION TO PROVIDE A FREE PATH OF NOT LESS THAN 4 FEET. IF A MINIMUM 4 FOOT FREE PATH IS UNAVAILABLE, NOTIFY THE ENGINEER AND CONTACT THE CITY OF NEW BRITAIN.

COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.

COORDINATE THIS REVISION WITH CITY OF NEW BRITAIN AT LEAST 45 DAYS PRIOR TO REVISION.

CLEAN EXISTING HANDHOLES TO REMAIN. WORK TO BE PAID FOR UNDER ITEM NO. 1010060A - CLEAN EXISTING HANDHOLE.

CLEAN EXISTING CONDUIT(S). WORK TO BE PAID FOR UNDER ITEM NO. 1018908A - CLEAN EXISTING CONDUIT. ALL CCTV CAMERAS ARE NEW. CCTV CAMERAS TO BE INSTALLED PER MANUFACTURERS SPECIFICATIONS. WORK TO BE PAID UNDER ITEM NO. 1112214A - IP VIDEO CAMERA ASSEMBLY.

CONTRACTOR TO INSTALL NEW 12 STRAND FIBER OPTIC DROP CABLE BETWEEN MH LP 246 AND PROPOSED CONTROLLER.

CONTRACTOR TO VERIFY MAST ARM INFORMATION INCLUDING CROSS SECTIONS AND DIMENSIONS, BASED ON FIELD SURVEY, PRIOR TO SUBMISSION OF WORKING DRAWINGS.

 $\langle F \rangle$  INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 402+96, 30 RT.

 $\langle G \rangle$  INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 402+34, 33 RT.

 $\langle H \rangle$  INSTALL NEW PEDESTAL FOUNDATION, 8' PEDESTAL, APS, AND PEDESTRIAN COUNTDOWN SIGNAL ADJACENT TO LANDING AREA AT 402+22, 25 RT.

INSTALL MAST ARM FOUNDATION (MAST ARM ASSEMBLY B) WITH APS AND PEDESTRIAN COUNTDOWN SIGNAL AT 402+25, 26 LT.

 $\langle J \rangle$  Install New Pedestal Foundation, 8' Pedestal, APS, and Pedestrian Countdown Signal Adjacent to LANDING AREA AT 403+24, 29 LT.

 $\langle K \rangle$  Install mast arm foundation (mast arm assembly a) with aps and pedestrian countdown signal AT 403+12, 22 RT.

 $\langle N \rangle$  CONVERT EXISTING CONTROLLER FOUNDATION TO TYPE I CONCRETE HANDHOLE.

O LOCATE EXISTING 2" RMC FOR EXISTING FIBER OPTIC CABLE. EXTEND TO NEW CONTRETE HANDHOLE.

U VIDEO DETECTION BY USE OF VIDEO-360 CAMERA ON MAST ARM ID #088-226-A.

 $\langle \overline{W} \rangle$  Install 30" X 30" handhole. All handholes shall be type I unless otherwise noted.

 $\langle X \rangle$  INSTALL CAST IRON HANDHOLE COVER.

easting:

 $\langle Y \rangle$  RESET CONCRETE HANDHOLE AND CAST IRON HANDHOLE COVER.

(Z) INSTALL TRAFFIC CONTROLLER CABINET AT 403+04, 24 RT. CABINET TO OPEN STREET SIDE. CENETR OF CABINET IS AT LOCATION: NORTHING: 803071.354 EASTING: 987300.516

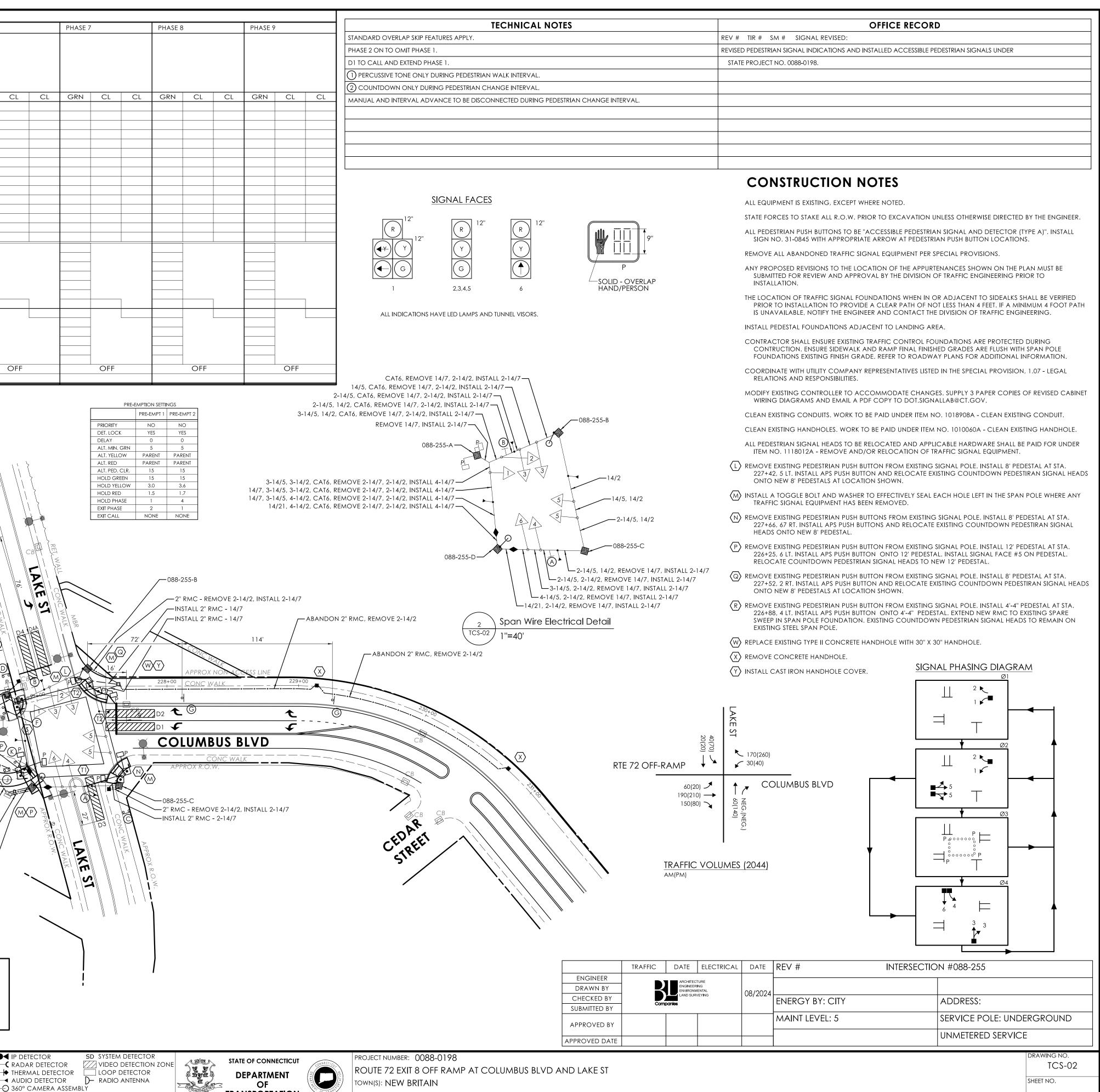
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TRAFFIC VOLUMES (2044) AM(PM)

# **CITY SIGNAL**

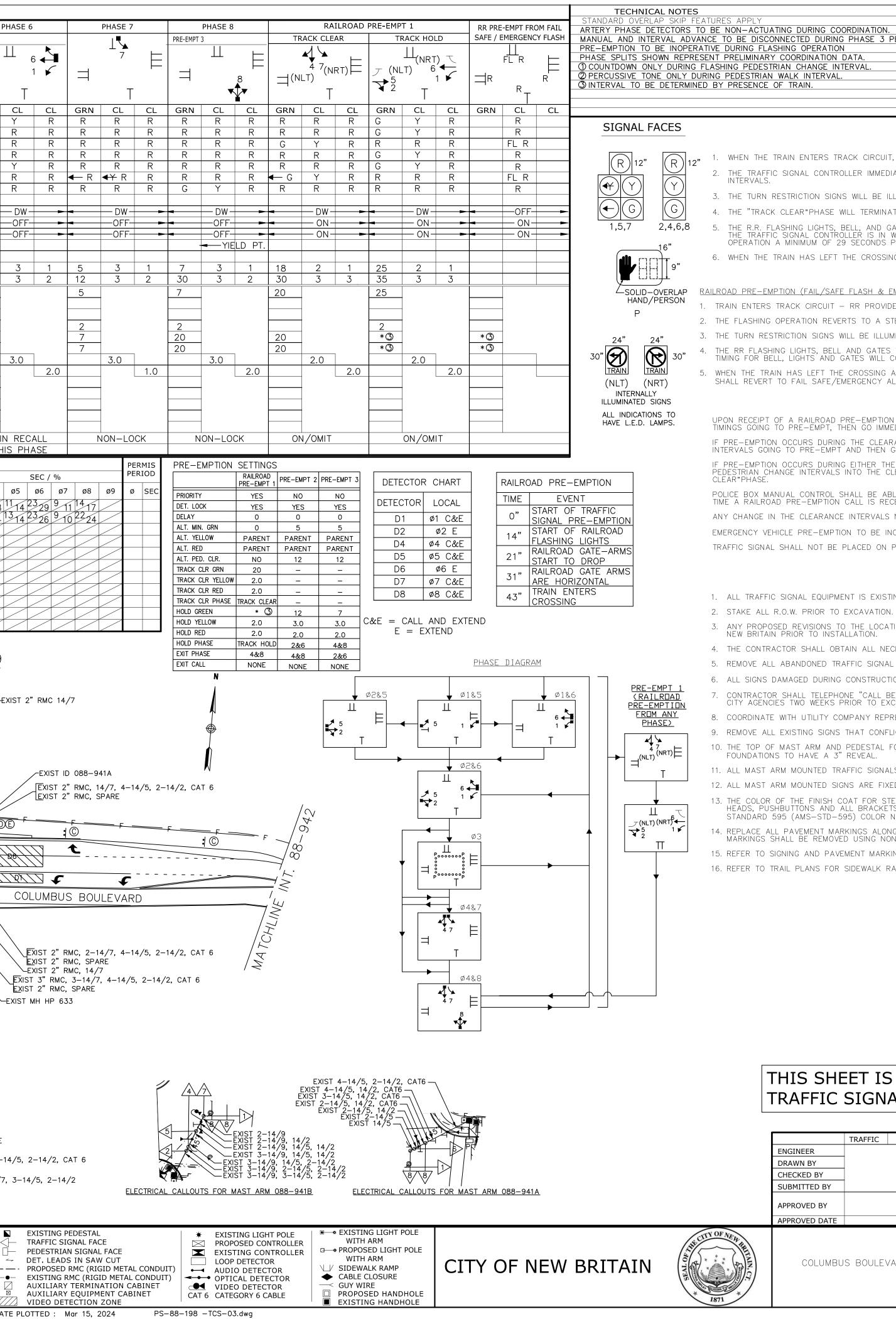
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	<ul> <li>EXISTING 31-1629 EXISTING 31-1630</li> <li>EXISTING 31-1627 EXISTING 31-1628</li> <li>RELOCATED 31-1178/31-1189 BACK TO BACK</li> </ul>				XISTING 31-02 NSTALL 31-028 ELOCATED 1-1178/31-118 ACK TO BACH	2227 ( ONL 2227 ( ONL ONL ONL ONL ONL ONL		ABAND	ONED 2"	RMC - 2-1	4/2					088-255 RMC <u>-</u> 2-14	AC- 
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#### RAILROAD OPERATIONAL NOTES RAILROAD PRE-EMPTION (NORMAL OPERATION)

1. WHEN THE TRAIN ENTERS TRACK CIRCUIT, R.R. PROVIDES IMMEDIATE PRE-EMPTION CIRCUIT TO THE TRAFFIC SIGNAL CONTROLLER CABINET.

2. THE TRAFFIC SIGNAL CONTROLLER IMMEDIATELY ADVANCES THE SEQUENCE TO THE "TRACK CLEAR" PHASE VIA THE PROPER YELLOW AND RED CLEARANCE

3. THE TURN RESTRICTION SIGNS WILL BE ILLUMINATED WITH THE TRAFFIC SIGNAL PRE-EMPTION "TRACK CLEAR" PHASE.

4. THE "TRACK CLEAR"PHASE WILL TERMINATE, AND THE TRAFFIC SIGNAL CONTROLLER WILL HOLD IN THE "TRACK HOLD" PHASE. 5. THE R.R. FLASHING LIGHTS, BELL, AND GATES WILL COMMENCE OPERATION 7 TO 13 SECONDS INTO THE "TRACK CLEAR" PHASE DEPENDING ON WHAT INTERVAL THE TRAFFIC SIGNAL CONTROLLER IS IN WHEN THE PRE-EMPTION CALL IS RECEIVED. STANDARD R.R. TIMING FOR LIGHTS, BELL, AND GATES WILL COMMENCE OPERATION A MINIMUM OF 29 SECONDS PRIOR TO THE TRAIN ENTERING THE CROSSING. 6. WHEN THE TRAIN HAS LEFT THE CROSSING AND THE TRACK CIRCUIT, THE TRAFFIC CONTROL SIGNAL SHALL RETURN TO NORMAL OPERATION, PHASE 4 & 8.

#### -SOLID-OVERLAP RAILROAD PRE-EMPTION (FAIL/SAFE FLASH & EMERGENCY FLASH OPERATION)

1. TRAIN ENTERS TRACK CIRCUIT - RR PROVIDES IMMEDIATE PRE-EMPTION CIRCUIT TO THE TRAFFIC SIGNAL CONTROLLER CABINET.

2. THE FLASHING OPERATION REVERTS TO A STEADY RED ON SIGNAL FACES 1,2,5,6 AND 8 AND REMAINS FLASHING RED ON SIGNAL FACES 4 AND 7.

3. THE TURN RESTRICTION SIGNS WILL BE ILLUMINATED IMMEDIATELY UPON RECEIPT OF THE RAILROAD PRE-EMPTION CALL.

4. THE RR FLASHING LIGHTS, BELL AND GATES WILL COMMENCE OPERATION 14 SECONDS AFTER THE TRAIN HAS ENTERED THE TRACK CIRCUIT. STANDARD RR TIMING FOR BELL, LIGHTS AND GATES WILL COMMENCE A MINIMUM OF 29 SECONDS PRIOR TO THE TRAIN ENTERING THE CROSSING. 5. WHEN THE TRAIN HAS LEFT THE CROSSING AND THE TRACK CIRCUIT, THE TURN RESTRICTION SIGNS ARE DEACTIVATED, AND THE TRAFFIC CONTROL SIGNAL SHALL REVERT TO FAIL SAFE/EMERGENCY ALL RED FLASHING OPERATION.

#### TECHNICAL NOTES (CONTINUED)

UPON RECEIPT OF A RAILROAD PRE-EMPTION CALL THE SIGNAL TO IMMEDIATELY ADVANCE OUT OF ANY GREEN INCLUDING MINIMUM GREEN INTO CLEARANCE INTERVAL TIMINGS GOING TO PRE-EMPT, THEN GO IMMEDIATELY TO RAILROAD PRE-EMPTION "TRACK CLEAR"PHASE. IF PRE-EMPTION OCCURS DURING THE CLEARANCE INTERVALS OF ANY PHASE, THE CONTROLLER TO DROP NEXT PHASE CALL, FINISH TIMING THE CLEARANCE INTERVALS GOING TO PRE-EMPT AND THEN GO IMMEDIATELY TO THE RAILROAD PRE-EMPTION "TRACK CLEAR"PHASE.

IF PRE-EMPTION OCCURS DURING EITHER THE WALK OR PEDESTRIAN CHANGE INTERVAL, THE SIGNAL SHALL IMMEDIATELY ADVANCE OUT OF THE WALK AND PEDESTRIAN CHANGE INTERVALS INTO THE CLEARANCE INTERVAL TIMINGS GOING TO PRE-EMPT, THEN GO IMMEDIATELY TO THE RAILROAD PRE-EMPTION "TRACK

POLICE BOX MANUAL CONTROL SHALL BE ABLE TO BE PRE-EMPTED BY RAILROAD CIRCUIT. THE POLICE BOX MANUAL CONTROL SHALL REMAIN INOPERATIVE FROM THE TIME A RAILROAD PRE-EMPTION CALL IS RECEIVED UNTIL THE CONTROLLER LEAVES THE RAILROAD HOLD PHASE AND RETURNS TO PHASE 4 & 8. ANY CHANGE IN THE CLEARANCE INTERVALS NOTED ON THIS PLAN MAY REQUIRE A MODIFICATION OF THE RAILROAD TRACK CIRCUIT. EMERGENCY VEHICLE PRE-EMPTION TO BE INOPERATIVE DURING RAILROAD PRE-EMPTION AND FAIL SAFE/EMERGENCY FLASHING OPERATIONS.

TRAFFIC SIGNAL SHALL NOT BE PLACED ON PROGRAMMED FLASH.

# CONSTRUCTION NOTES :

1. ALL TRAFFIC SIGNAL EQUIPMENT IS EXISTING, EXCEPT AS NOTED.

3. ANY PROPOSED REVISIONS TO THE LOCATION OF THE APPURTENANCES SHOWN ON THE PLAN MUST BE SUBMITTED FOR REVIEW AND APPROVAL BY THE CITY OF NEW BRITAIN PRIOR TO INSTALLATION. 4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY STATE AND CITY PERMITS, INCLUDING BUT NOT LIMITED TO: SIDEWALK, CURB, AND ROAD OPENING.

5. REMOVE ALL ABANDONED TRAFFIC SIGNAL EQUIPMENT PER SPECIAL PROVISIONS.

6. ALL SIGNS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

YOU DIG" 48 HOURS PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL CONTACT UTILITY REPRESENTATIVES AND CITY AGENCIES TWO WEEKS PRIOR TO EXCAVATION. 8. COORDINATE WITH UTILITY COMPANY REPRESENTATIVES LISTED IN THE SPECIAL PROVISION, 1.07 - LEGAL RELATIONS AND RESPONSIBILITIES.

9. REMOVE ALL EXISTING SIGNS THAT CONFLICT WITH THE PROPOSED SIGNS, AS DIRECTED BY THE ENGINEER.

10. THE TOP OF MAST ARM AND PEDESTAL FOUNDATIONS WITHIN SIDEWALK AREAS ARE TO BE LEVEL WITH SIDEWALK. IN EARTH AREAS, MAST ARM AND PEDESTAL

11. ALL MAST ARM MOUNTED TRAFFIC SIGNALS ARE FIXED MOUNTED TO THE MAST ARM BY USE OF ADJUSTABLE BRACKETS.

12. ALL MAST ARM MOUNTED SIGNS ARE FIXED MOUNTED.

13. THE COLOR OF THE FINISH COAT FOR STEEL MAST ARMS, ANCHOR BOLT COVERS, POST CAPS, END CAPS, ALUMINUM PEDESTALS, TRAFFIC/PEDESTRIAN SIGNAL HEADS, PUSHBUTTONS AND ALL BRACKETS AND HARDWARE, INCLUDING STAINLESS STEEL BANDS, SHALL BE BLACK, AEROSPACE MATERIAL SPECIFICATION – STANDARD 595 (AMS-STD-595) COLOR NO. 27038. COLOR SAMPLES TO BE PROVIDED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION. 14. REPLACE ALL PAVEMENT MARKINGS ALONG ALL APPROACHES WITHIN 200-FEET OF THE INTERSECTION, AS SHOWN ON THE PLANS. ALL CONFLICTING PAVEMENT

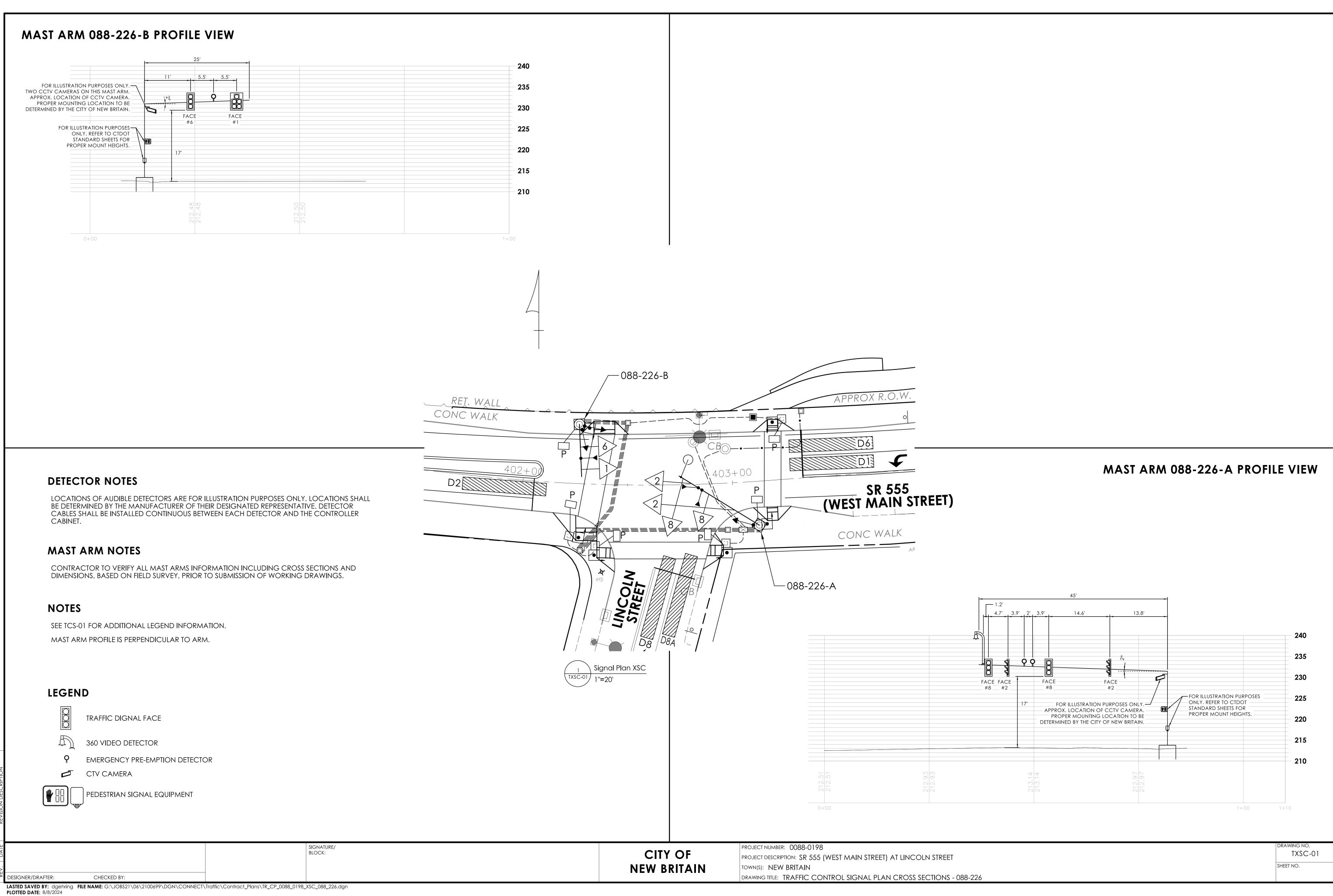
MARKINGS SHALL BE REMOVED USING NON-DESTRUCTIVE METHODS ACCEPTED BY THE CITY. 15. REFER TO SIGNING AND PAVEMENT MARKING PLANS FOR PAVEMENT MARKING LAYOUT AND SIGN INFORMATION.

16. REFER TO TRAIL PLANS FOR SIDEWALK RAMP LAYOUT.

# THIS SHEET IS FOR INFORMATION ONLY. NO TRAFFIC SIGNAL MODIFICATIONS REQUIRED.

	TRAFFIC	DATE	ELECTRICAL	DATE	INTERSECTION # 088-941				
ER						K3LC110N # 000-941			
BY									
ED BY									
TED BY					ENERGY BY - CITY	METER # - N/A			
/ED BY					MAINT LEVEL - CITY	SERVICE - MH HP 633			
/ED DATE						UNMETERED SERVICE			
COLUMBUS BOULEVARD AT HIGH STREET		TOWN:	PROJECT NO.						
		NEW BRITA	0088-0198						
			DRAWING NO.						
		DRAWING TITLE:	TCS-03						
		TRAFFIC CONT							
					SIGNAL PLA				
			SCAI	LE 1" = 40'	JIGNAL FLA				

CITY SIGNAL

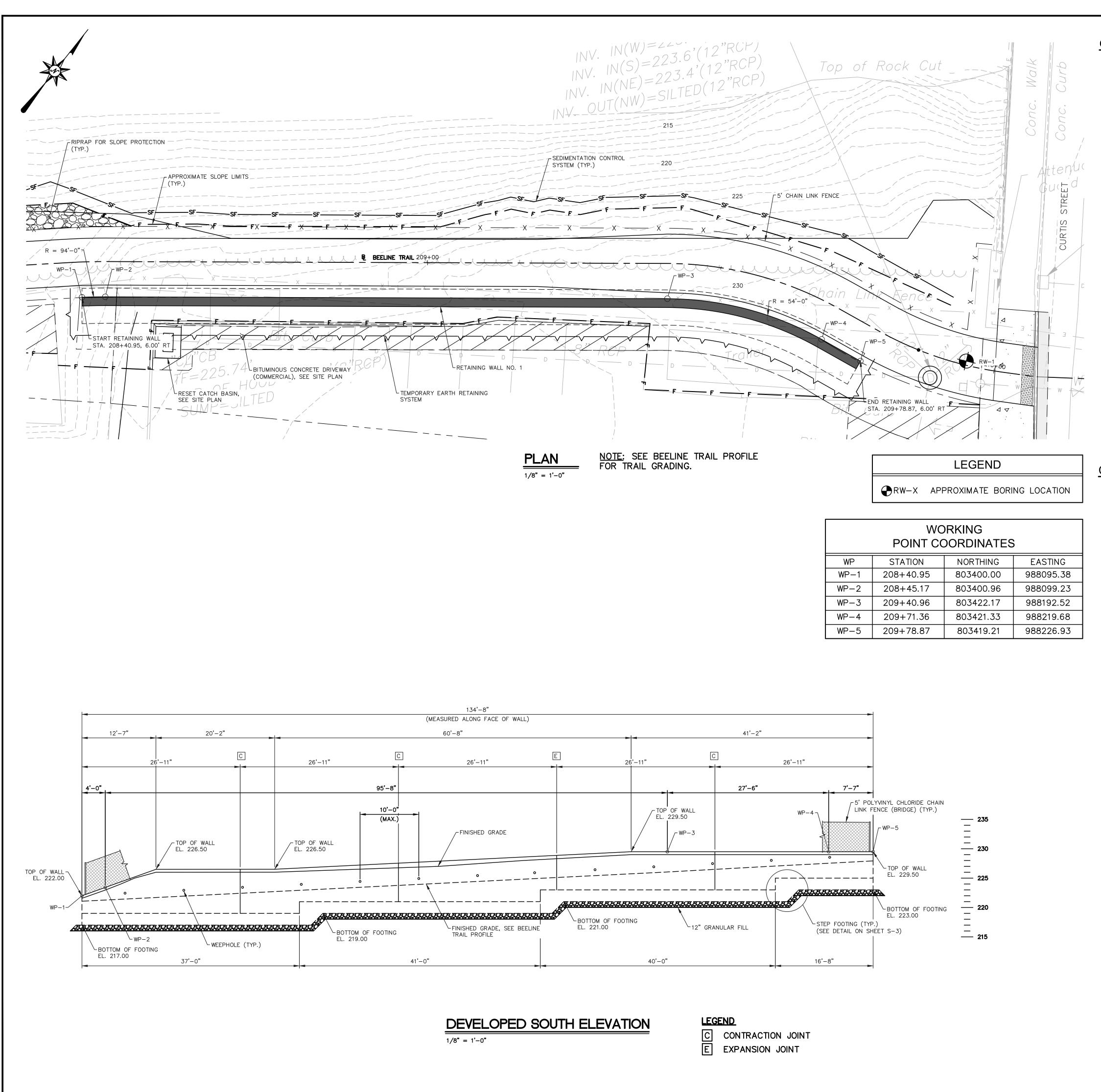








DATE		SIGNATURE/ BLOCK:
REV.	DESIGNER/DRAFTER: CHECKED BY:	



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		ORKING DORDINATES	5									
WP	STATION	NORTHING	EASTING									
WP-1	208+40.95	803400.00	988095.38									
WP-2	208+45.17	803400.96	988099.23									
WP-3	209+40.96	803422.17	988192.52									
WP-4	209+71.36	803421.33	988219.68									
WP-5	209+78.87	803419.21	988226.93									

## **GENERAL NOTES**

**SPECIFICATIONS:** CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 818 (2020), SUPPLEMENTAL SPECIFICATIONS DATED JULY, 2023 AND SPECIAL PROVISIONS.

**DESIGN SPECIFICATIONS:** AASHTO LRFD SPECIFICATIONS FOR HIGHWAY BRIDGES (9TH EDITION, 2020) AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003 WITH REVISIONS UP TO AND INCLUDING 2022).

### MATERIAL STRENGTHS:

CONCRETE: CLASS PCC 03342 CONCRETE ... ....f'c = 3,000 psi

REINFORCEMENT: (ASTM A615 GRADE 60).... ..fy = 60,000 psi

THE CONCRETE STRENGTH, f'c, USED IN THE DESIGN OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF 6.01 - CONCRETE FOR STRUCTURES, AND M.03 - PORTLAND CEMENT CONCRETE.

### FOUNDATION PRESSURES:

FACTORED BEARING PRESSURE (STRENGTH LIMIT STATE): 2.22 KIPS/SQUARE FOOT FACTORED BEARING PRESSURE (SERVICE LIMIT STATE): 1.55 KIPS/SQUARE FOOT

DIMENSIONS AND ELEVATIONS: WHEN DECIMAL DIMENSIONS AND ELEVATIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZERO.

**<u>UTILITIES</u>**: THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES LOCATED WITHIN THE VICINITY OF THE SITE DURING CONSTRUCTION. THE METHOD OF SUPPORTING AND PROTECTING UTILITIES MUST BE APPROVED BY THE UTILITY COMPANY. UTILITY MODIFICATIONS SHALL BE MADE BY THE RESPECTIVE UTILITY COMPANIES EXCEPT WHERE NOTED OTHERWISE.

- 1. FINISHED GRADE AT BACK OF WALL REFERS TO THE TOP OF TRAIL ELEVATION.
- 2. BOTTOM OF FOOTING IS DEPENDENT ON THE TYPE OF RETAINING WALL. IT IS PRESUMED THAT THE RETAINING WALL IS A CAST-IN-PLACE REINFORCED CONCRETE CANTILEVER WALL WITH BOTTOM OF FOOTING 4' BELOW GRADE.

### CONCRETE NOTES

**EXPOSED EDGES:** EXPOSED EDGES OF CONCRETE SHALL BE BEVELED 1" X 1", UNLESS DIMENSIONED OTHERWISE.

GALVANIZED REINFORCEMENT BARS: ALL REINFORCEMENT SHALL BE GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE. ALL REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A767, CLASS 1, INCLUDING SUPPLEMENTAL REQUIREMENTS. THE COST OF FURNISHING AND PLACING THIS REINFORCEMENT SHALL BE INCLUDED IN THE ITEM "DEFORMED STEEL BARS -GALVANIZED.'

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.

WEEPHOLES: THE COST OF FURNISHING AND INSTALLING WEEPHOLES SHALL BE INCLUDED IN THE ITEM "ABUTMENT AND WALL CONCRETE".

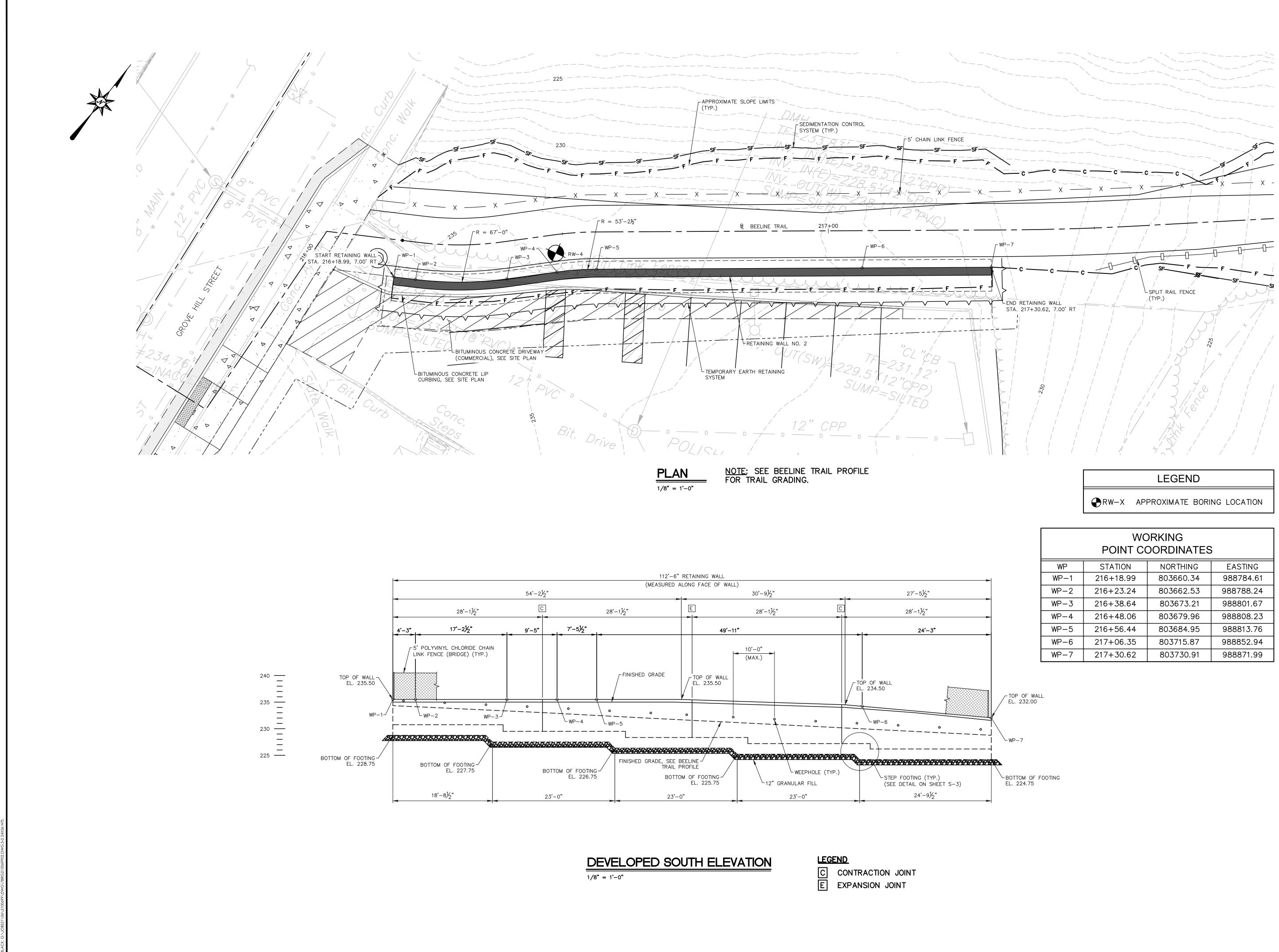
**PREFORMED EXPANSION JOINT FILLER:** THE COST OF FURNISHING AND INSTALLING PREFORMED EXPANSION JOINT FILLER IS PAID FOR AS "">" PREFORMED EXPANSION JOINT FILLER FOR BRIDGES."

CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

THE FOLLOWING PAY ITEMS AND CONCRETE CLASSES ARE REQUIRED FOR CAST-IN-PLACE CONCRETE COMPONENTS:

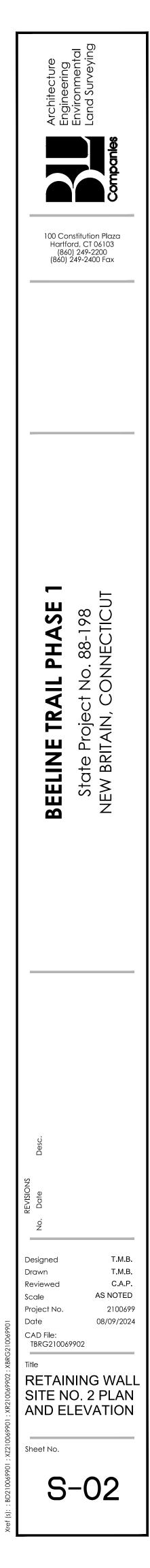
ITEM	BRIDGE COMPONENTS	PCC CLASS
FOOTING CONCRETE	RETAINING WALL FOOTING	PCC03342
ABUTMENT AND WALL CONCRETE	RETAINING WALL STEM	PCC03342

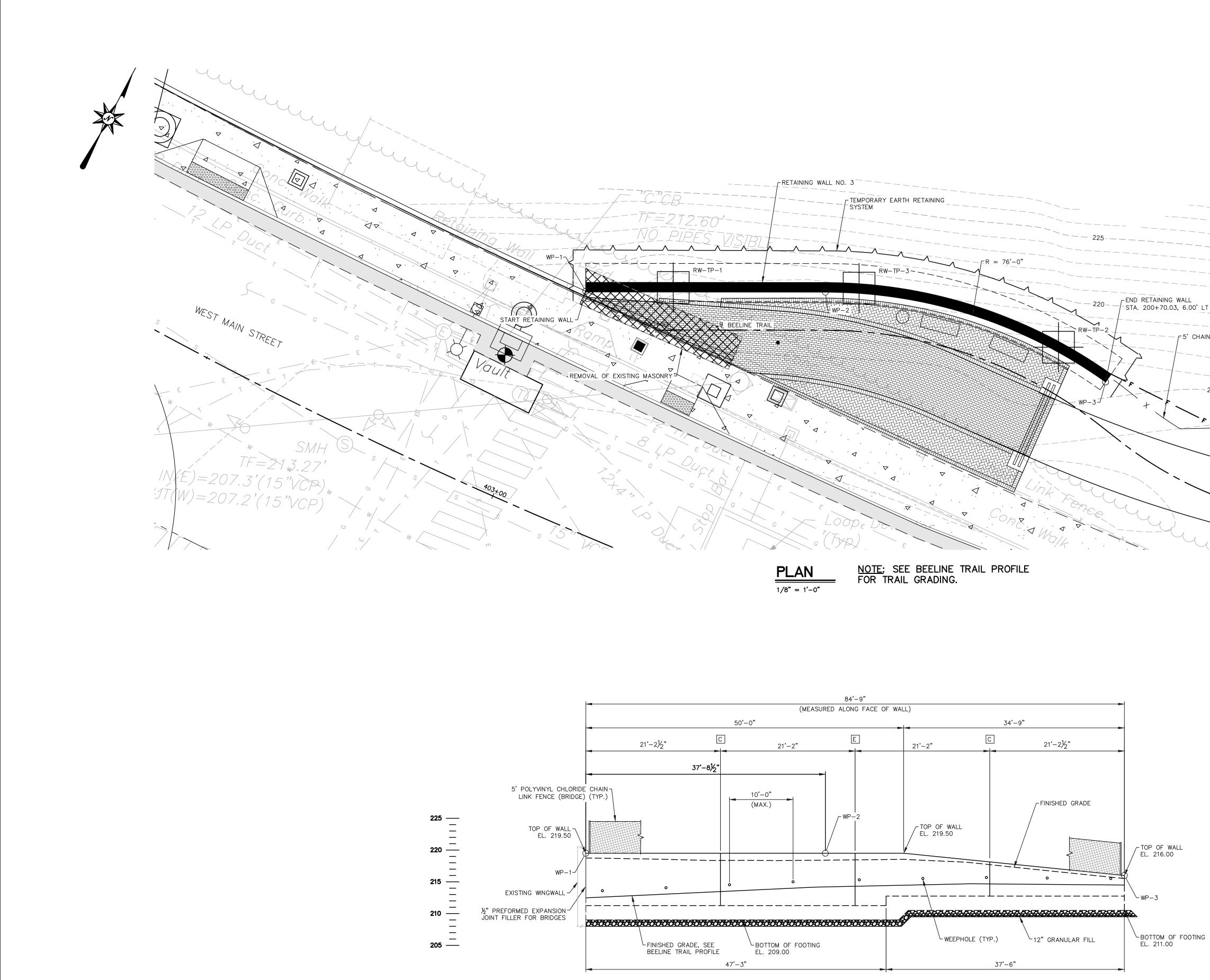
s): ; BD210069901 ; X2210069901 ; XR210069902 ; XBRG210069901		
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T.M.B. T.M.B. C.A.P. AS NOTED 2100699 08/09/2024 9901 NING WALL O. 1 PLAN, TION AND RAL NOTES	State Project No. 88-198 NEW BRITAIN, CONNECTICUT	Fland Survey of the second sec



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		ORKING DORDINATES	6
WP	STATION	NORTHING	EASTING
WP-1	216+18.99	803660.34	988784.61
WP-2	216+23.24	803662.53	988788.24
WP-3	216+38.64	803673.21	988801.67
WP-4	216+48.06	803679.96	988808.23
WP-5	216+56.44	803684.95	988813.76
WP-6	217+06.35	803715.87	988852.94
WP-7	217+30.62	803730.91	988871.99





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DEVELOPED SOUTH ELEVATION

1/8" = 1'-0"

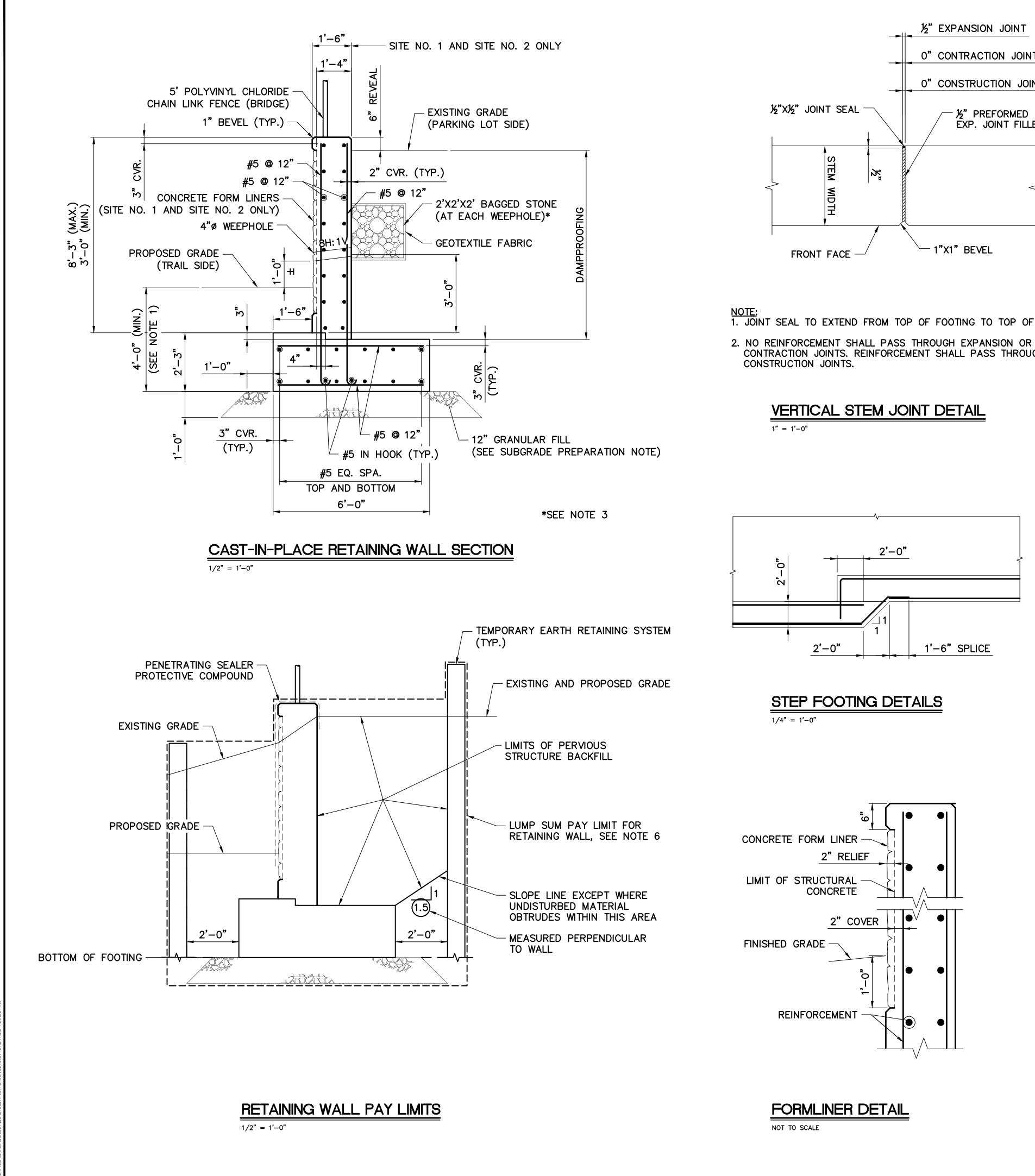
LEGEND C CONTRACTION JOINT E EXPANSION JOINT

0' LT
CHAIN LINK FENCE
SEDIMENTATION CONTROL SYSTEM (TYP.)
— - 215 (TYP.)
SF_SF
SF SF SF
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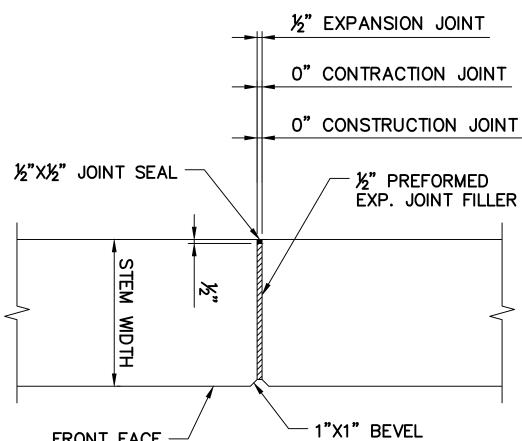
LEGEND
APPROXIMATE BORING LOCATION

WORKING POINT COORDINATES											
WP	STATION	NORTHING	EASTING								
WP-1		803130.67	987295.76								
WP-2	200+26.69	803147.76	987329.37								
WP-3	200+70.03	803155.17	387375.07								

Architecture Engineering Engineering Burreying 100 Constitution blaza Hattord, CT 06103 (860) 548-5500 (860) 548-5400 Eax
<b>BEELINE TRAIL PHASE 1</b> State Project No. 88-198 NEW BRITAIN, CONNECTICUT
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- 1. JOINT SEAL TO EXTEND FROM TOP OF FOOTING TO TOP OF WALL.
- CONTRACTION JOINTS. REINFORCEMENT SHALL PASS THROUGH

1'-0" (MIN.)

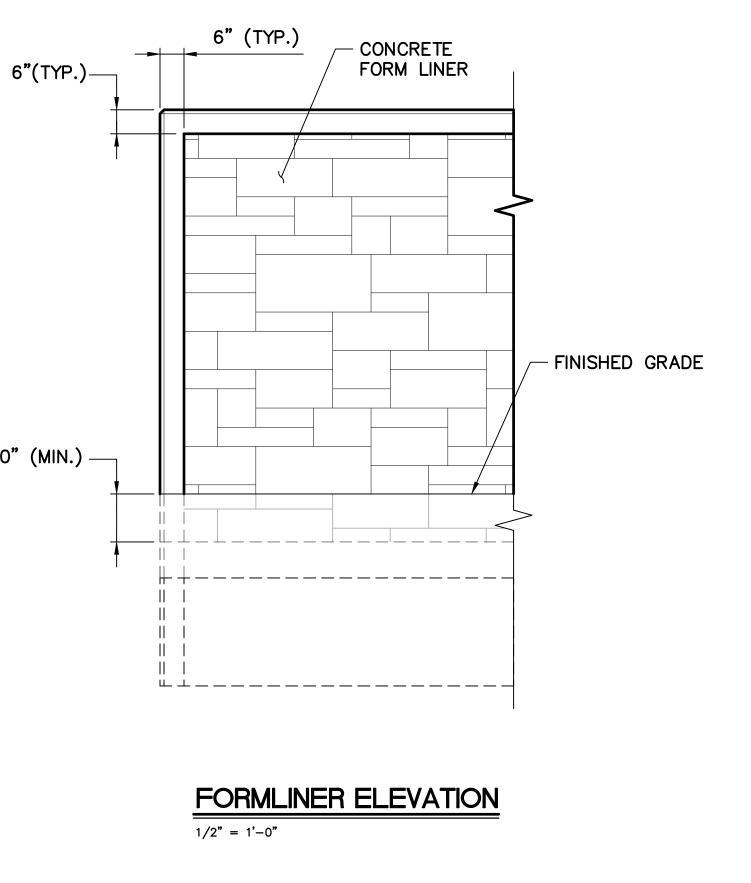
### <u>NOTES</u>

- 1. THE CONTRACTOR MAY SELECT THE OPTION OF A CAST-IN-PLACE RETAINING WALL, PREFABRICATED MODULAR WALL, OR MECHANICALLY STABILIZED EARTH (MSE) WALL AS SHOWN ON THE PLANS HEREIN. WALLS ARE PAID UNDER THE UNIT PRICE OF "RETAINING WALL (SITE NO. 1)" AND "RETAINING WALL (SITE NO. 2)", SEE SPECIAL PROVISIONS. PREFABRICATED MODULAR WALLS AND MECHANICALLY STABILIZED EARTH (MSE) WALLS SHALL BE SELECTED FROM THE CTDOT QUALIFIED PRODUCT LIST.
- 2. RETAINING WALL (SITE NO. 3) IS REQUIRED TO BE A CAST-IN-PLACE RETAINING WALL. RETAINING WALL (SITE NO. 3) SHOULD NOT HAVE FORMLINER.
- 3. FACTORED BEARING PRESSURE (STRENGTH LIMIT STATE) = 2.22 KSF FACTORED BEARING PRESSURE (SERVICE LIMIT STATE) = 1.55 KSF
- 4. WEEPHOLES ARE SHOWN AS SUBSURFACE DRAINAGE FOR THE CAST-IN-PLACE RETAINING WALL OPTION. SUBSURFACE DRAINAGE IS ALSO REQUIRED FOR THE PREFABRICATED MODULAR WALL AND THE MECHANICALLY STABILIZED EARTH (MSE) WALL. THE CHOSEN METHOD OF SUBSURFACE DRAINAGE FOR THESE WALLS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- 5. TEMPORARY EARTH RETAINING SYSTEM BELOW PAY LIMITS AND ANY TIEBACKS AND BRACING ASSOCIATED WITH SAME SHALL BE INCLUDED IN THE LUMP SUM COST OF THE WALL.
- 6. REINFORCING TO HAVE 2" COVER EXCEPT WHERE SHOWN OTHERWISE.
- 7. ANY ADDITIONAL PERVIOUS STRUCTURE BACKFILL REQUIRED OUTSIDE THIS LIMIT SHALL ALSO BE INCLUDED IN THE LUMP SUM PRICE.

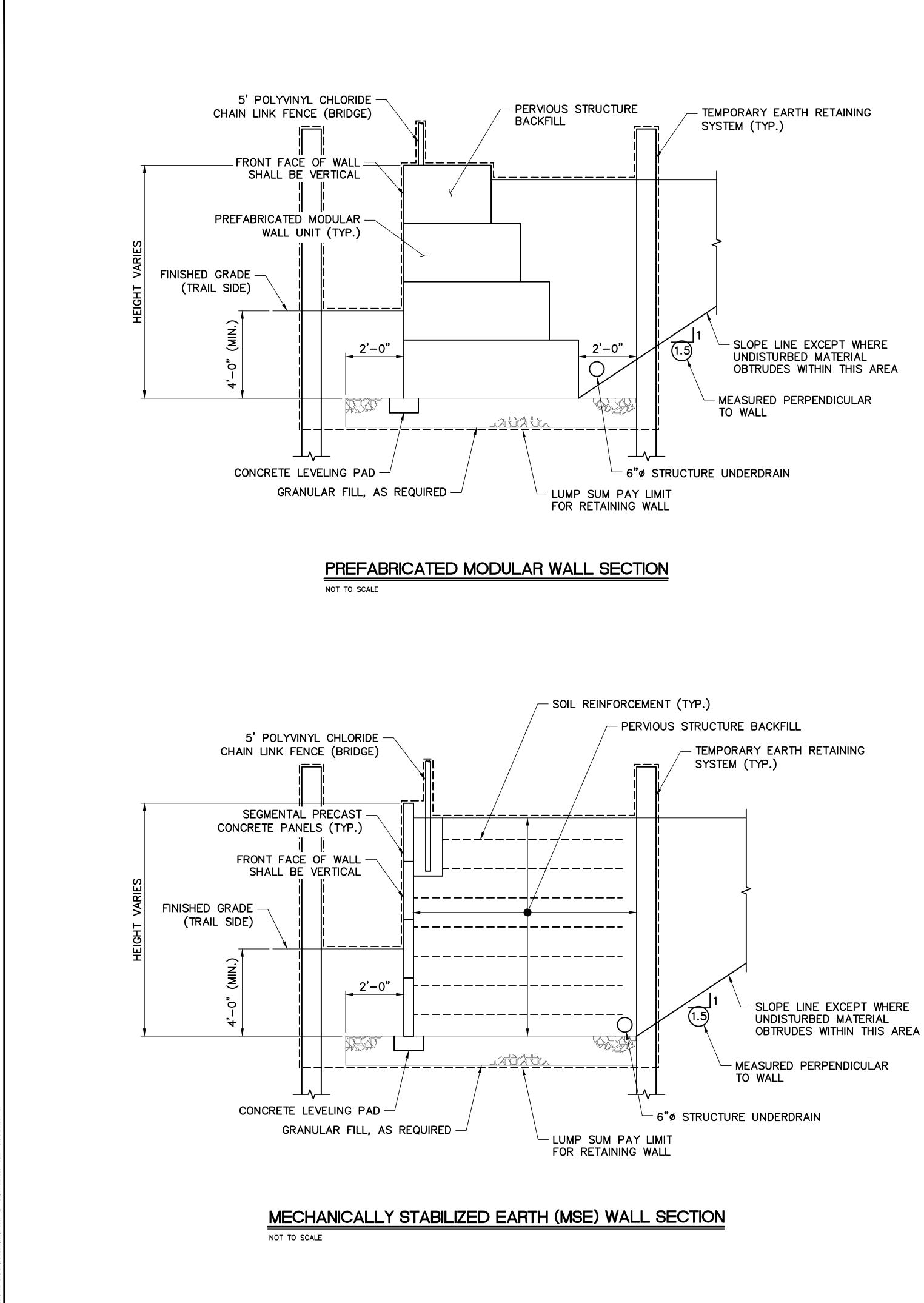
### SUBGRADE PREPARATION NOTE:

THE PROPOSED RETAINING WALLS SPREAD FOOTINGS MAY BEAR ON PREPARED FILL AND/OR NATURAL, GLACIAL TILL DEPOSITS OR ON COMPACTED GRANULAR FILL. EXISTING FILL IS NOT CONSIDERED A SUITABLE BEARING MATERIAL AND MUST BE EXCAVATED IN THE AREA OF THE PROPOSED FOOTINGS DURING SITE PREPARATION.

EXCAVATION TO RETAINING WALL SUBGRADE ELEVATIONS SHOULD BE PERFORMED USING A SMOOTH-EDGED BUCKET TO MINIMIZE POSSIBLE DISTURBANCE TO THE SUBGRADE. SOIL SUBGRADES SHOULD BE PROOF-COMPACTED PRIOR TO GRANULAR FILL PLACEMENT WITH A VIBRATORY PLATE COMPACTOR WITH A MINIMUM OF 2,500 POUNDS OF CENTRIFUGAL FORCE. ANY SOFT OR LOOSE ZONES, OR AREAS WITH NESTLED BOULDERS OR DEBRIS, IDENTIFIED DURING COMPACTION SHOULD BE EXCAVATED AND REPLACED WITH COMPACTED GRANULAR FILL, AS NECESSARY, AND AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. THE BASE OF FOUNDATION EXCAVATIONS SHOULD BE FREE OF DEBRIS MATERIALS, WATER, ICE, AND LOOSE AND FROZEN SOILS PRIOR TO PLACING GRANULAR FILL. SHOULD THE MATERIALS AT BEARING LEVEL BECOME DISTURBED, THE IMPACTED MATERIALS SHOULD BE REMOVED PRIOR TO PLACING GRANULAR FILL. SUBGRADE PREPARATIONS SHOULD BE COMPLETED TO THE SATISFACTION OF THE ENGINEER.







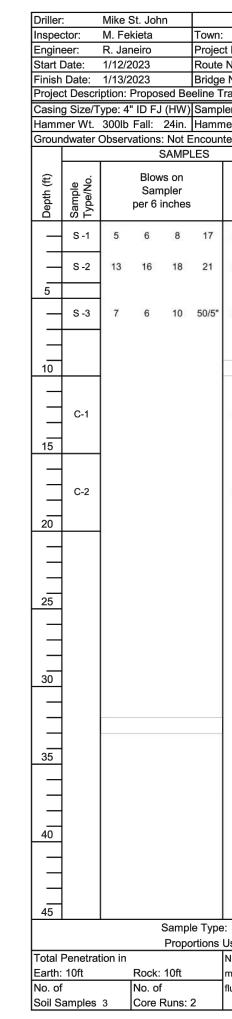
🕲 2024 BL COMPANIES, INC. THESE DRAWINGS SHALL NOT BE UTILIZED BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE SPECIFIC WRITTEN PERMISSION OF BL COMPANIES.

### <u>NOTES</u>

- 1. THE CONTRACTOR SHALL SELECT, DESIGN (FOR PROPRIETARY WALLS ONLY), AND CONSTRUCT ONE OF THE FOLLOWING WALL OPTIONS IN ACCORDANCE WITH THE SPECIAL PROVISION "RETAINING WALL (SITE NO. 1), RETAINING WALL (SITE NO. 2) AND RETAINING WALL (SITE NO. 3)".
- 2. FACTORED BEARING PRESSURE (STRENGTH LIMIT STATE) = 2.22 KSF FACTORED BEARING PRESSURE (SERVICE LIMIT STATE) = 1.55 KSF
- 3. THE PREFABRICATED MODULAR WALL AND THE MECHANICALLY STABILIZED EARTH WALL (MSE) FACING SHALL HAVE AN ARCHITECTURAL CONCRETE FINISH SIMILAR TO THAT OF A CONCRETE FORM LINER AS SHOWN ON SHEET S-03.
- 4. TEMPORARY EARTH RETAINING SYSTEM BELOW PAY LIMITS AND ANY TIEBACKS AND BRACING ASSOCIATED WITH SAME SHALL BE INCLUDED IN THE LUMP SUM COST OF THE WALL.
- 5. DETAILS SHOWN ON THIS SHEET ARE NOT SPECIFIC. THE CONTRACTOR'S DESIGNER SHALL MODIFY EACH SECTION FOR EACH SPECIFIC SITE.
- 6. REINFORCING TO HAVE 2" COVER EXCEPT WHERE SHOWN OTHERWISE.
- 7. ALL DIMENSIONS ARE SPECIFIED WITH THE APPLICABLE UNITS OF MEASUREMENT.
- 8. ANY ADDITIONAL PERVIOUS STRUCTURE BACKFILL REQUIRED OUTSIDE THIS LIMIT SHALL ALSO BE INCLUDE IN THE LUMP SUM PRICE.

Architecture Engineering Environmental Rattord, CL 06103 (860) 546-5500 (860) 546-5500 (860) 546-5500 (860) 546-5500
<b>BEELINE TRAIL PHASE 1</b> State Project No. 88-198 NEW BRITAIN, CONNECTICUT
viewed T.M.B. project No. 2100699 Designed T.M.B. Reviewed C.A.P. Scale AS NOTED Project No. 2100699 Date 08/09/2024 CAD File: TBRG210069905 Title RETAINING WALL DERG210069905 Sheet No.

Driller Inspe			St. Jo ekieta		Town	:			<b>cticut DOT Bori</b> Britain	- ·	Hole No.: RW-1 Sta./Offset: 209+95/ 1'L	
Engin	eer:		neiro		<u> </u>	ct No.:		088-′			Northing: 803423.3	
Start I			2023		Route			Rout	e 72 R.O.W.		Easting: 988244.5	
	Date:	1/12/				e No.:		-			Surface Elevation: 229'+/-	
			i	sed Be		<u>`</u>		<i>'</i>				
	_								/8" ID SS		Core Barrel Type: NQ	
				24in.			t.	140lb	o. Fall: 30in			
Grour	dwater	Obser		s: Not E		ntered				1		
		<u> </u>		SAMP	LES	-			n ed			
£	, o		Blo	ws on		<u> </u>	2		ptic	Materi	al Description	
Ţ	e/ M			mpler		÷.	Ē	% C	ata	a	nd Notes	
Depth (ft)	Sample Type/No.		per 6	inches	i	Pen. (in.)	Rec. (in.)	RQD	Generalized Strata Description			
										Dark brown, C-F SAND, son	ne m-f Gravel, some Silt.	
_	S -1	2	2	7	8	24	3			trace Roots		
		-							MISC. FILL	Dark red-brown, C-F SAND	and C-F GRAVEL little Silt	
	S -2	3	3	6	8	24	4		NINGO: TILL	trace Roots		
5		-										
5		-								Bod brown to grov brown. C	-F GRAVEL and C-F SAND,	- 22
	S -3	11	37	33	34	24	15		GLACIAL TILL	little Silt	STAVEE and C-1 SAND,	
		-							GLACIAL HEL	Gray-brown, C-F GRAVEL,	nome of Sand little Silt	
	S -4	41	42	50/4"		16	16			Gray-blown, C-F GRAVEL, s	some c-r Sand, inde Sin	
		-							WEATHERED BEDROCK			
10		-					0		BEDROOK		ladaratalı. Masthers -	- 21
										Very Poor Quality, Strong, N	•	
	C-1					60	60	8		Intensely Fractured, gray, fir	ie- to medium-grained	
	0-1					00	00	0		BASALT	4.5.71	
										[Core Times (min./ft): 4, 4, 4	, 4.5, 7]	
15		-							BEDROCK			- 21
										Fair Quality, Strong to Very		
										Slightly Weathered, Highly F	ractured, gray, fine- to	
	C-2					60	60	52		medium-grained BASALT		
										[Core Times (min./ft): 5, 5, 6	, 5.5, 5.5]	
20												- 20
										END OF BORING AT 20ft		
25												
30												
						1						
35												
55												
		1										
40												
_												
45												
		-		Samp	le Туре	e: S=	= Split	Spoo	n C = Core UF	P = Undisturbed Piston V	= Vane Shear Test	
				Propo	ortions	-				0 - 20%, Some = 20 - 35%		
	Penetra	ation in		100			,			t approx. boundaries betweer		Shee
Earth:				:: 10ft			-	,		gs have been made at times a	nd under conditions stated,	1 of
No. of			No. c	of Runs:		fluctua	ations r	nay oc	cur due to other fac	ctors.		
	amples											



Driller		Mike	St. Jol	hn			0	onne	cticut DOT Borir	Report Hole N	lo.: RW-4	
Inspe			szulak		Town	:			Britain	<u> </u>	ffset: 216+48/ 4'R	
Engin		R. Ja	neiro			ct No.:		088-			ng: 803682.6	
Start I		1/16/2	2023		Route	e No.:		Rout	e 72 R.O.W.	Eastin	g: 988806.1	
	Date:	1/16/2				e No.:		-		Surfac	e Elevation: 235'+/-	
-	ct Descr		<u> </u>			<u>,</u>		<u> </u>				
									/8" ID SS	Core E	Barrel Type: NQ	
	ner Wt.				_			140lk	o. Fall: 30in.			
Srour	ndwater	Upser		SAMP		nered						
		1		SAWF	LLS	<u> </u>			ced on			€
(#)	a ġ			ws on		(in.)	Û.	%	Generalized Strata Description	Material Desc		. Io
Depth (ft)	Sample Type/No.			mpler inches		i i i	Rec. (in.)	â	ata	and Note	es	Elevation (ft)
De	Sa Tyj		per o	nonea	•	Pen.	Re	RQD	Ge Sti De			Ele
	S -1	11	5	5	5	24	11			Dark red-brown, C-F SAND and C-F	GRAVEL, some Silt	
	0-1		0	0	0	24						
	S -2	5	4	21	11	24	0		MISC. FILL	No Recovery		
						55076238						
5		4										- 230+
	S -3	50/3"				3	0			No Recovery, with cobbles and bould	ders	
		-							GLACIAL TILL/			
									WEATHERED BEDROCK			1
10						<u> </u>						1
10		1								1		- 225+
										Fair Quality, Strong, Slightly Weather	red, Highly to Moderately	1
	C-1					60	57	63		Fractured, gray, fine- to medium-grai		1
										[Core Times (min./ft): 2, 1.5, 3.5, 2, 3	.5]	1
15									BEDROCK			- 220+
		]							BEDROCK	Fair Quality, Strong, Slightly Weather	red, Highly Fractured,	- 2204
										gray, fine- to medium-grained BASAI	T	
	C-2					60	60	67		[Core Times (min./ft): 6, 2, 2.5, 2, 4]		
20		4										- 215+
										END OF BORING AT 20ft		
25												1
												1
												1
												1
												1
30												1
												1
												1
												1
												1
35												1
_												1
												1
												1
40												1
-												1
	1											1
												1
												1
45												
								•		= Undisturbed Piston V = Vane		
				Prop	ortions	1				- 20%, Some = 20 - 35%, And =		
	Penetra	tion in								t approx. boundaries between soil type		Sheet
Earth:			1	: 10ft			-	,	-	natter observed from about 4 to 7 feet	,	1 of 1
lo. of	amples	-	No. o							as advanced to refusal at about 8 fbg	prior to advancing	
		3	(Core	Runs:	2	IFJ-ca	sina foi	r confir	mation rock coring.			

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ACK G:\ 108\$21\06\2100699\DWG\TBRG210069906 DWG \$-6 24X36 NTS

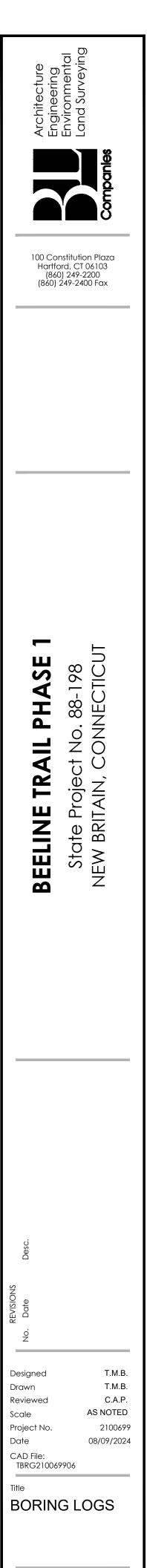
		C		cticut DOT Borir				
n: ec	t No.:		New 088-1	Britain	Sta./Offset: 210+53/ 12'L Northing: 803443.5			
	No.:			e 72 R.O.W.	Easting: 988299.6			
	No.:		-	<u> </u>	Surface Elevation: 230'+/-			
		hase						
				/8" ID SS	Core Barrel Type: NQ			
	tered	τ.	140lb	o. Fall: 30in.				
				73				
	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)		
	24	18			Dark red-brown, C-F SAND and SILT, some f Gravel,			
	24	10		MISC. FILL	trace Roots Dark red-brown, C-F SAND, some m-f Gravel, little Silt			
;"	23	16		GLACIAL TILL/ WEATHERED BEDROCK	Red-brown to gray-brown, C-F GRAVEL and C-F SAND, little Silt, with decomposed gneiss fragments at sample tip	- 225+/-		
60     55     12     Very Poor Quality, Medium Weathered, Intensely Fractional Grained BASALT					Very Poor Quality, Medium Strong to Strong, Moderately Weathered, Intensely Fractured, gray, fine- to medium- grained BASALT [Core Times (min./ft): 3, 3, 5, 5, 5]	- 220+/-		
	60	57	59	BEDROCK	Fair Quality, Strong, Moderately Weathered Highly Fractured, gray, fine- to medium-grained BASALT [Core Times (min./ft): 4, 3, 3, 3, 3]	- 215+/-		
						- 210+/-		
					END OF BORING AT 20ft	210.7		
be	: S=	= Split	Spoo	n C=Core UP	= Undisturbed Piston V = Vane Shear Test			
					- 20%, Some = 20 - 35%, And = 35 - 50%			
- 1					t approx. boundaries between soil types, transitions	Sheet		
		-		Water level reading cur due to other fac	s have been made at times and under conditions stated, tors.	1 of 1		

Driller:         Mile S1. John         Connecticut DOT Boring Report         Hole No.: RW-3 Surface E15:0019           Engineer:         R. Janeiro         Project No.:         088-198         Northing: 803802           Surf Date:         11/32023         Bridge No.:         -         Surface Elevation: 23           Project Description: Proposed Bealting Frail (Phase I)         -         Surface Elevation: 23         Surface Reveal           Casing StarType: 4'10 FJ (HW) Sampler TypeSize:         136*105         SS.         Ocre Barrel Type: NQ           Hammer WL. Solb Fall:         All-Hammer WL. Solb Fall:         Surface Elevation: 23         Ocre Barrel Type: NQ           Groundwater Observations: Not Encountered         Surface Elevation: 23         Sold Start Star	Driller		Mike St.	lohn				`onno	eticut DOT Bori	ng Panort	Hole No.: RW-3
Engineer:         R. Janeiro         Project No:         OB8-198         Northing:         0.30302           Salar Date:         1/13/2023         Bridge No:         -					Town	:					
Finish Date:         1/13/2023         Ipridge Description:         Surface Elevation: 23           Casing StarType:         4/10 L/PMI) Sampler Type/Size:         13/10 D S1         Core Barrel Type: NC           Finish Date:         1/13/2023         Core Barrel Type: NC         Core Barrel Type: NC           Groundwater Observations: NM Encountered         Sampler	· · · ·		R. Janeir	0	_			088-	198		
Project Description: Proposed Beeline Trail (Phase 1)         Core Barnel Type: NC           Garding Sizer Yue 4' DF 1/ HW) Sampler Type/Size: 130° D SS         Core Barnel Type: NC           Groundweter Observations: Not Encountered         SAMPLES         Material Description           Sample Type: Size         Sizer Yue         Sizer Sizer Yue         Material Description           Sizer Sizer Yue         Sizer Sizer Yue         Sizer Sizer Sizer Yue         Material Description           Sizer Sizer Yue         Sizer S	Start I	Date:	1/13/2023	3	_	No.: Route 72 R.O.W.					Easting: 988712
Casing Size/Type: 4' ID / PM/) Sampler Type: N2         Core Barnel Type: N2           Hammer WL. 300h Failt: 2AII. Hammer WL.         140b.         Fail: 301n.         Core Barnel Type: N2           Groundweter Observations: Not Encountered         Sampler         140b.         Fail: 301n.         Material Description and Notes           Groundweter Observations: Not Encountered         Sampler         Groundweter Observations: Not Encountered         Material Description and Notes           Sampler         Groundweter Observations: Not Encountered         Groundweter Observations: Not Encountered         Material Description and Notes           Sampler         Groundweter Observations: Not Encountered         Groundweter Observations: Not Encountered         Material Description and Notes           Sampler         Sampler         Groundweter Observations: Not Encountered         Misc. FL         Dark brownblack, SLT and C-F SAND, some F Gravel Itras Brown F Gravel Itra								-			Surface Elevation: 236
Hammer Wt.         300E         Fail:         240n.         Material Description           Groundwater Observations: Not Encountered         SAMPLES         Big Big Control         Material Description           Groundwater Observations: Not Encountered         Sample S         Big Big Control         Material Description           S.1         4         6         8         4         24         10           S.2         3         50/2"         8         3         Dark brownblack, SIL and C-F SAND, some 1 Gravel trace Organic debris, tace Organic debr											Core Dorrel Turo NO
Groundwater Observations, Not Encountered         SAMPLES         Sampler											Core Barrel Type: NQ
E         Bows on Sampler         E <the< th=""> <the< th="">         E         &lt;</the<></the<>							ι.	1401			
Stampler by		amator	00001744			10100					
8.1         4         6         8         4         24         10           8.2         3         50/3*         8         3         MISC. FILL         Table Dark brownblack, SLT and CF SAND, some of Gravel, ittle Strace Dracelain fragments           5         5.3         50/3*         3         2         MISC. FILL         Scray, COBBLE/BOULDER fragments           10									ion iz	Matari	al Description
8.1         4         6         8         4         24         10           8.2         3         50/3*         8         3         MISC. FILL         Table Dark brownblack, SLT and CF SAND, some of Gravel, ittle Strace Dracelain fragments           5         5.3         50/3*         3         2         MISC. FILL         Scray, COBBLE/BOULDER fragments           10	(H)	No.				Ŀ.	(j.	%	a a ript		-
8.1         4         6         8         4         24         10           8.2         3         50/3*         8         3         MISC. FILL         Table Dark brownblack, SLT and CF SAND, some of Gravel, ittle Strace Dracelain fragments           5         5.3         50/3*         3         2         MISC. FILL         Scray, COBBLE/BOULDER fragments           10	epth	/be/			s	Ľ,	ů.	B	ene trati esc	u u	
-         S-1         4         0         5         4         24         10           -         S-2         3         50/2*         8         3         MISC. FILL         Dark brownblack, CF SAND, some m-I Gravel, little S           5         -         <	<u> </u>	Ϋ́				<u> </u>	Ř	Ř	000		
8       3       MISC. FILL       Dark brownblack, C-F SAND, some m-f Gravel, little S trace Brick/Concrete/Asphalt Tragments         5       5.3       50/3*       3       2         10	_	S -1	4 6	6 8	4	24	10				
5       503*       3       2         10       60       58       47         10       60       58       47         10       60       58       47         15       60       58       47         16       60       58       47         17       60       58       47         18       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       52       END OF BORING AT 20t         20       20       20       END OF BORING AT 20t         33       2       2       2       2         34       2       2       2       2         35       31       31       31       32         36       35 <td> </td> <td>6.2</td> <td>2 50</td> <td>10"</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td>-</td> <td>-</td>		6.2	2 50	10"			2			-	-
5       8-3       50/3*       3       2       Gray, COBBLE/BOULDER fragments         10       0       60       58       47       GLACIAL TILL/ WEATHERED       Poor Quality, Strong, Moderately Weathered, Highly Fr. gray, fine- to medium-grained BASALT         15       60       58       47       BEDROCK       Fair Quality, Strong, Moderately Weathered, Highly Fr. gray, fine- to medium-grained BASALT         20       60       60       52       END OF BORING AT 201t         25       60       60       52       END OF BORING AT 201t         26       60       60       52       END OF BORING AT 201t         26       60       60       52       END OF BORING AT 201t         26       60       60       52       END OF BORING AT 201t         30       60       60       52       END OF BORING AT 201t         40       60       60       52       END OF BORING AT 201t         41       60       60       52       END OF BORING AT 201t         45       53       Sample Type: S = Spill Spoon       C = Core       UP = Undisturbed Pleton       V = Vane Shear Test         46       60       60       Fair 20.20%, Sone = 20.35%, And = 35.50%       NOTES: 1) Stratification lines represent approx. boun	-	0-2	3 50	12					WIGO. TILL		
8:3       50/3*       3       2         10       60       58       47         60       58       47       GLACIAL TILLU WEATHERED BEDROCK       Poor Quality, Strong, Moderately Weathered, Highly Fri gray, fine- to medium-grained BASALT [Core Times (min.ft): 2, 25, 2, 25, 3]         60       60       60       52       BEDROCK         7       60       60       52       Poor Quality, Strong, Moderately Weathered, Highly Fri gray, fine- to medium-grained BASALT [Core Times (min.ft): 2, 25, 4, 5, 2, 25, 3]         20       60       60       52       END OF BORING AT 201         25       60       60       52       END OF BORING AT 201         30       60       60       52       END OF BORING AT 201         40       60       60       52       END OF BORING AT 201         40       60       60       52       END OF BORING AT 201         41       60       60       60       52       END OF BORING AT 201         42       53       53       54       55       56         45       54       56       57       56       57         54       56       57       57       57       57         54       58       58	5										a nagino na
10       0       58       47       Poor Quality, Strong, Moderately Weathered, Highly Frigray, fine- to medium-grained BASALT [Core Times (min./tt): 2, 2, 5, 2, 2, 5, 3]         16       60       58       47         60       60       52       Fair Quality, Strong, Moderately Weathered, Highly Frigray, fine- to medium-grained BASALT [Core Times (min./tt): 2, 2, 5, 2, 2, 5, 3]         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         21       60       60       52         25       7       7       8         36       7       8       8         40       7       8       8         41       7       9       9         42       8       8       8         43       8       8       8         44       9 <td></td> <td>S -3</td> <td>50/3"</td> <td></td> <td></td> <td>3</td> <td>2</td> <td></td> <td></td> <td>Gray, COBBLE/BOULDER 1</td> <td>ragments</td>		S -3	50/3"			3	2			Gray, COBBLE/BOULDER 1	ragments
10       0       58       47       Poor Quality, Strong, Moderately Weathered, Highly Frigray, fine- to medium-grained BASALT [Core Times (min./tt): 2, 2, 5, 2, 2, 5, 3]         16       60       58       47         60       60       52       Fair Quality, Strong, Moderately Weathered, Highly Frigray, fine- to medium-grained BASALT [Core Times (min./tt): 2, 2, 5, 2, 2, 5, 3]         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         21       60       60       52         25       7       7       8         36       7       8       8         40       7       8       8         41       7       9       9         42       8       8       8         43       8       8       8         44       9 <td></td> <td></td> <td>1998-128 (128-128) 5</td> <td></td> <td></td> <td>A</td> <td></td> <td></td> <td>GLACIAL TILL/</td> <td></td> <td></td>			1998-128 (128-128) 5			A			GLACIAL TILL/		
10       0       58       47         15       0       58       47         15       0       58       47         15       0       50       52         15       0       52       Fair Quality, Strong, Moderately Weathered, Highly Fragray, fine- to medium-grained BASALT [Core Times (min.ft): 2, 2, 5, 2, 2, 5, 3]         20       0       60       52         20       0       52       END OF BORING AT 20ft         25       0       0       52         30       0       0       52         30       0       0       52         31       0       0       52         32       0       0       0         33       0       0       0         34       0       0       0         35       0       0       0         36       0       0       0         37       0       0       0         48       0       0       0         36       0       0       0         37       0       0       0         48       0       0       0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>WEATHERED</td><td></td><td></td></td<>									WEATHERED		
C-1       60       58       47       Poor Quality, Strong, Moderately Weathered, Highly Frigrey, fine- to medium-grained BASALT         I5       C-2       60       60       52       BEDROCK       Fair Quality, Strong, Moderately Weathered, Highly Frigrey, fine- to medium-grained BASALT         20       C-2       60       60       52       END OF BORING AT 20t         25       C-2       60       60       52       END OF BORING AT 20t         30       C-2       60       60       52       END OF BORING AT 20t         30       C-2       60       60       52       END OF BORING AT 20t         40       C-2       Sample Type: S = Split Spoon       C = Core       UP = Undisturbed Piston       V = Vane Shear Test         40       Froortions Used:       Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%       Total Penetration in       NOTES: 1) Stratification lines represent approx: boundaries between soil types, transitions         arth:: 10ft       Rock: 10ft       NOTES: 1) Stratification are repeated from about 3 to 8 feet below grade (rbg)         No. of       No. of       No. of       No. of       Nortification lines represent approx: boundaries at babout 7 fbg prior to advancing									BEDROCK		
C-1       60       58       47         15       60       58       47         15       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         21       60       60       52         25       7       7       7         30       7       8       8         30       7       8       8         30       7       8       8         40       8       8       8         40       8       8       8         40       9       9       9         40       9 <t< td=""><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	10										
C-1         50         58         47           15         - </td <td>  _</td> <td></td>	_										
15       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         20       60       60       52         25       60       60       52         26       60       60       52         27       60       60       52         28       60       60       52         29       60       60       52         20       60       60       52         20       60       60       52         26       60       60       52         27       60       60       52         28       60       60       52         30       7       7       7         30       7       7       8         31       7       8       8         40       7 <td>  _</td> <td></td>	_										
BEDROCK       Fair Quality, Strong, Moderately Weathered, Highly Fre.         gray, fine- to medium-grained BASALT       [Core Times (min./ft): 2.5, 4.5, 2, 2.5, 3]         20       END OF BORING AT 20ft         25       END OF BORING AT 20ft         30       Sample Type:         35       Sample Type:         40       Sample Type:         40       Sample Type:         41       Sample Type:         51       Sample Type:         52       Sample Type:         53       Sample Type:         54       NOTES:         1       NOTES:         1       NOTES:         1       Startification lines represent approx. boundaries between soil types, transitions may be gradual. 2) Intermittent auger chatter observed from about 31 to 8 feet below grade (ftog) on inferred cobles/bolders. 3) 4* SSAs advanced to refusal at about 7 fto grain to advancing	_	C-1				60	58	41		[Core Times (min./ft): 2, 2.5,	2, 2.5, 3]
BEDROCK       Fair Quality, Strong, Moderately Weathered, Highly Fre.         gray, fine- to medium-grained BASALT       [Core Times (min./ft): 2.5, 4.5, 2, 2.5, 3]         20       END OF BORING AT 20ft         25       END OF BORING AT 20ft         30       Sample Type:         35       Sample Type:         40       Sample Type:         40       Sample Type:         41       Sample Type:         51       Sample Type:         52       Sample Type:         53       Sample Type:         54       NOTES:         1       NOTES:         1       NOTES:         1       Startification lines represent approx. boundaries between soil types, transitions may be gradual. 2) Intermittent auger chatter observed from about 31 to 8 feet below grade (ftog) on inferred cobles/bolders. 3) 4* SSAs advanced to refusal at about 7 fto grain to advancing	15										
C-2       60       60       52       gray, fine- to medium-grained BASALT [Core Times (min.ft): 2.5, 4.5, 2, 2.5, 3]         20       60       60       52       END OF BORING AT 20ft         25       7       7       80       52         30       7       8       8       7         30       7       8       8       8         40       7       8       8       8         45       8       8       8       8         51       5       5       9       9         45       8       8       9       9       9         51       10       10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%       10%         Total Penetration in Barth: 10ft       NOTES: 1) Stratification lines represent approx. boundaries between soll types, transitions         No. of       No. of       0       10%       10% there is a data about 7 fbg prior to advancing on inferred cobbles/boulders: 3) 4" SAs advanced to refusal at about 7 fbg prior to advancing on inferred cobbles/boulders: 3) 4" SAs advanced to refusal at about 7 fbg prior to advancing on inferred cobbles/boulders: 3) 4" SAs advanced to refusal at about 7 fbg prior to advancing on inferred cobbles/boulders: 3) 4" SAs advanced to refusal at about 7 fbg prior to advancing on inferred cobbles/boulders: 3) 4" SAs advanced to refusal at about 7 fbg prior to advancing on in fores doubles/boulde	15		1						BEDROCK	Fair Quality Strong Modera	ately Weathered Highly Fra
C-2         60         60         52         [Core Times (min./ft): 2.5, 4.5, 2, 2.5, 3]           20	-										
20       END OF BORING AT 20ft         25       END OF BORING AT 20ft         25       END OF BORING AT 20ft         30       Image: Second State Sta	-	C-2				60	60	52			
25       END OF BORING AT 20ft         25       END OF BORING AT 20ft         30       Image: Second S	-										-
25         30         30         35         40         40         40         40         40         40         41         42         55         5         7         7         40         40         40         40         41         42         43         5         5         5         6         7 <td>20</td> <td></td>	20										
30         35         40         40         45         Sample Type:         Sample Type:         Server										END OF BORING AT 20ft	
30         35         40         40         45         Sample Type:         Sample Type:         Server	_										
30         35         40         40         45         Sample Type:         Sample Type:         Server	_										
30         35         40         40         45         Sample Type:         Sample Type:         Server	25										
35         40         40         40         45         Sample Type:         S = Split Spoon         C = Core         UP = Undisturbed Piston         V = Vane Shear Test         Proportions         Used:         Total Penetration in         Earth:       10ft         Rock:       10ft         No. of       No. of	20										
35         40         40         40         45         Sample Type:         S = Split Spoon         C = Core         UP = Undisturbed Piston         V = Vane Shear Test         Proportions         Used:         Total Penetration in         Earth:       10ft         Rock:       10ft         No. of       No. of	-										
35         40         40         40         45         Sample Type:         S = Split Spoon         C = Core         UP = Undisturbed Piston         V = Vane Shear Test         Proportions         Used:         Total Penetration in         Earth:       10ft         Rock:       10ft         No. of       No. of	-										
35         40         40         40         45         Sample Type:         S = Split Spoon         C = Core         UP = Undisturbed Piston         V = Vane Shear Test         Proportions         Used:         Total Penetration in         Earth:       10ft         Rock:       10ft         No. of       No. of											
40	30										
40											
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40											
45       Sample Type: S = Split Spoon C = Core UP = Undisturbed Piston V = Vane Shear Test Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%         Total Penetration in Earth: 10ft       NOTES: 1) Stratification lines represent approx. boundaries between soil types, transitions may be gradual. 2) Intermittent auger chatter observed from about 3 to 8 feet below grade (fbg) on inferred cobbles/boulders. 3) 4" SSAs advanced to refusal at about 7 fbg prior to advancing	35										
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Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%           Total Penetration in         NOTES: 1) Stratification lines represent approx. boundaries between soil types, transitions           Earth: 10ft         Rock: 10ft         may be gradual. 2) Intermittent auger chatter observed from about 3 to 8 feet below grade (fbg)           No. of         No. of         No. of         on inferred cobbles/boulders. 3) 4" SSAs advanced to refusal at about 7 fbg prior to advancing	45										
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Earth: 10ft         Rock: 10ft         may be gradual. 2) Intermittent auger chatter observed from about 3 to 8 feet below grade (fbg)           No. of         No. of         on inferred cobbles/boulders. 3) 4" SSAs advanced to refusal at about 7 fbg prior to advancing	Total										
No. of No. of on inferred cobbles/boulders. 3) 4" SSAs advanced to refusal at about 7 fbg prior to advancing	1			ck: 10ft					•		
							-		÷		• • •
	Soil S	amples	3 Co	re Runs	2	FJ-ca	sing fo	r confi	mation rock coring.		

' 9'R					
36'+/-					
Q					
	Elevation (ft)				
rel,					
s Silt,	- 231+/-				
Fractured,	- 226+/-				
	- 221+/-				
Fractured,	- 221+/-				
	- 216+/-				
	Sheet				
og) ng	1 of 1				

BORING NOTES

1. BORINGS PERFORMED BY NEW ENGLAND BORING CONTRACTORS, INC. BETWEEN JANUARY 12, 2023 AND JANUARY 16, 2023.



Sheet	No.

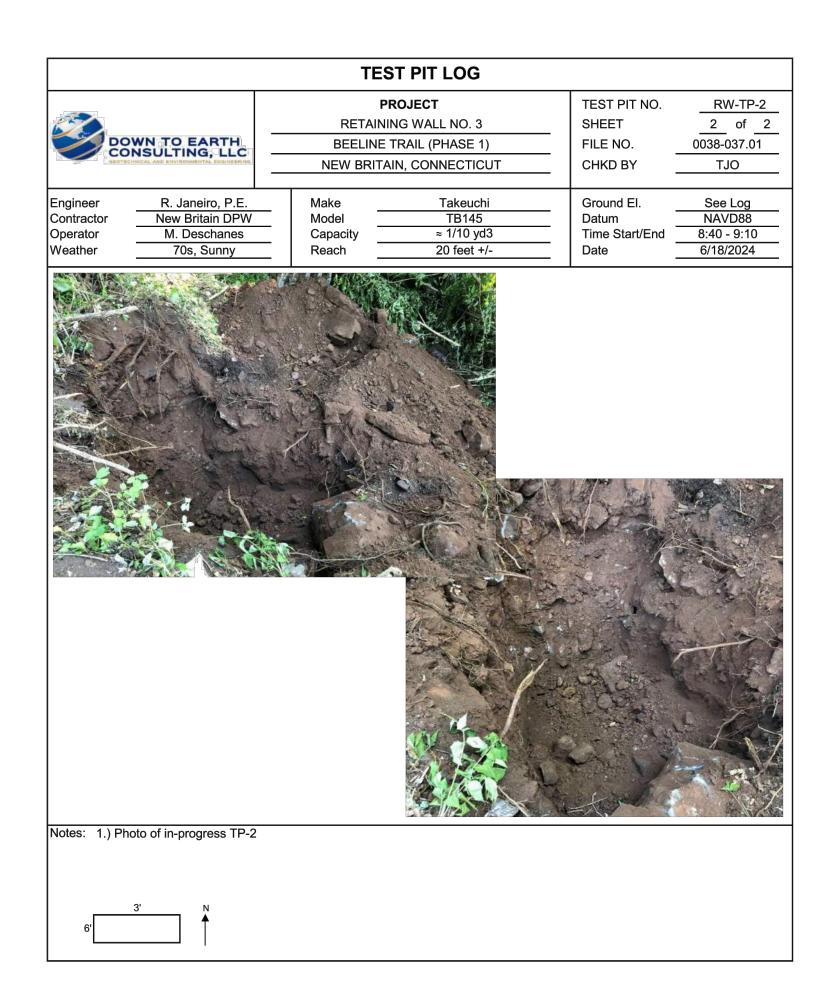
S-06

			TE	ST PIT LOG					
			Р	ROJECT		TEST P	IT NO.	R	W-TP-1
23	<u>.</u>			NG WALL NO. 3		SHEET	-	1	
	DOWN TO	EARTH		TRAIL (PHASE 1)		FILE NO	D.		-037.01
	GEOTECHNICAL AND ENV	ROMMENTAL ENGINEERING				CHKD E	_		JO
		· · · ·					_		
Engineer		Janeiro, P.E.	Make	Takeuchi		Ground	EI.		e Log
Contracto Operator		/ Britain DPW Deschanes	Model Capacity	TB145 ≈ 1/10 yd3		Datum Time St	art/End _		VD88 - 8:40
Weather		Os, Sunny	Reach	20 feet +/-		Date			3/2024
Depth Below	Strata Change &		Subsurface Des	cription	Fx	cavation	Bou	lder	Remarks
Grade	Water		(view to the N	lorth)		Effort	Qty/C		
(ft)	Level	El. 219'+/-							
1									
1									
2				El. 217'+/-					
	MISC. FILL					м			
3		Brown, COBBL	ES, some coarse to f	fine Gravel, some coarse to					Groundwate
4		fine Sand, tra	ice Silt, trace Roots, t	race Metal, with boulders				А	not observe
						D			
5									
6		End of Explore	ition (Refusal) at 3 fee	et below grade (El. 214'+/-)					
7									
8									
9									
10									
11									
12									
13									
14									
15	automont after		hout 2 foot below and	an informed herdeler					
NOLES: E	quipment refus	ai encountered at a	about 3 feet below grade	e on interrea doulder.	1	WATER SY Groundwate			
						Estimated S		h Groundwa	ater
		BOUL	DER CLASS	PROPORTIONS USED		1	FYCAV		ORT
_	7'		- 24" A	0-10% Trace			-	= Easy	
4'			- 36" B	10-20% Little				I = Moderat	
L		>36'	" C	20-35% Some 35-50% And			D	) = Difficult	

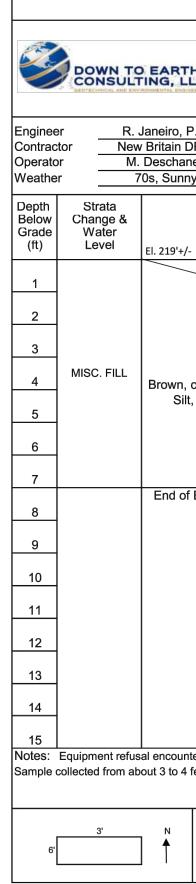




Notes: 1.) Photo of in-progress TP-1



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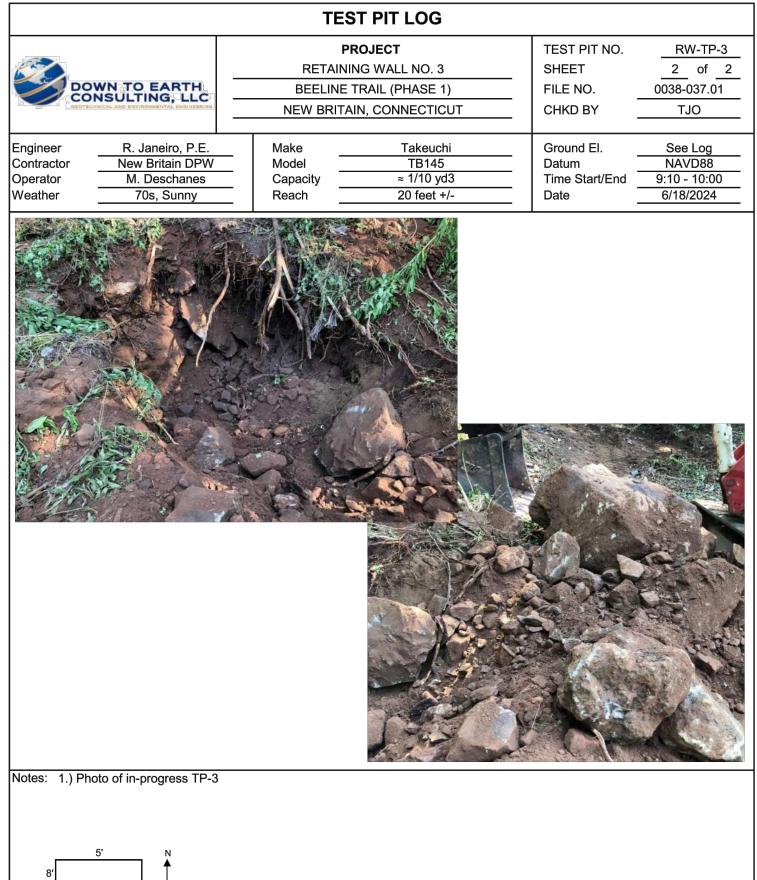


	TES	F PIT LOG		
ARTH G. LLC	RETAININ BEELINE T	OJECT G WALL NO. 3 RAIL (PHASE 1) N, CONNECTICUT	TEST PIT NO. SHEET FILE NO. CHKD BY	RW-TP-1 2 of 2 0038-037.01 TJO
eiro, P.E. tain DPW schanes Sunny	Make Model Capacity Reach	Takeuchi TB145 ≈ 1/10 yd3 20 feet +/-	Ground El. Datum Time Start/End Date	See Log NAVD88 8:00 - 8:40 6/18/2024



				Т	EST PIT LOG				
Ø	DOWN TO			PROJECT RETAINING WALL NO. 3 BEELINE TRAIL (PHASE 1) NEW BRITAIN, CONNECTICUT			SHEET 1 FILE NO. 0038		W-TP-2 of 2 037.01 JO
Engineer Contractor Operator Weather	New M.	Janeiro, P / Britain D Deschan ⁄0s, Sunny	PW es	Make Model Capacity Reach	Takeuchi TB145 ≈ 1/10 yd3 20 feet +/-	-	Ground El. See Datum NAVI Time Start/End 8:40 - Date 6/18/2		/D88 - 9:10
Depth Below Grade (ft)	Strata Change & Water Level			Subsurface D (view to the	escription e West) El. 219'+/-		cavation Effort	Boulder Qty/Class	Remarks
1 2 3		El. 216'+/-							
4		BOI	JLDER				М		
	MISC. FILL				EL, some coarse to fine Sand, k, trace Asphalt, with cobbles lders		D	5 - A 2 - B 1 - C	Groundwater not observed.
9		End of	Exploratior	n (Refusal) at 5	feet below grade (El. 211'+/-)				
10 11									
12									
13									
14 15									
Notes: Eq				ut 3 feet below gra rade for laborator	ade on inferred boulder. y testing.		WATER SY Groundwat 7 Estimated 3		ter
BOULDER         CLASS         PROPORTIONS USED         EXCAVATION EF           3'         N         12" - 24"         A         0-10%         Trace         E = Easy           6'         24" - 36"         B         10-20%         Little         M = Moder           >36"         C         20-35%         Some         D = Difficu									

	TES	T PIT LOG						
ARTH G, LLC	RETAININ BEELINE T	OJECT IG WALL NO. 3 RAIL (PHASE 1) N, CONNECTICUT	TEST PIT NO.         RW-TP-3           SHEET         1         of         2           FILE NO.         0038-037.01         0038-037.01           CHKD BY         TJO         TJO					
eiro, P.E. tain DPW schanes Sunny	Make	Takeuchi TB145 ≈ 1/10 yd3 20 feet +/-		Ground El.         See Log           Datum         NAVD88           Time Start/End         9:10 - 10:00           Date         6/18/2024				
219'+/-	Subsurface Desc (view to the Ea	ription ast)		cavation Effort	Boulder Qty/Class	Remarks		
		El. 216'+/-						
	rse to fine GRAVEL, some ce Roots, with numberous	coarse to fine Sand, trace cobbles and boulders		- D - I - 3B - I		Groundwater not observed.		
ncountered	i at about 3 feet below grade			WATER SY				
3 to 4 feet	below grade for laboratory te	sting.		⊈ Groundwate ∇Estimated \$	er Seasonal High Groundwa	ter		
N ▲	BOULDER         CLASS           12" - 24"         A           24" - 36"         B           >36"         C	PROPORTIONS USED           0-10%         Trace           10-20%         Little           20-35%         Some           35-50%         And			EXCAVATION EFFC E = Easy M = Moderate D = Difficult			



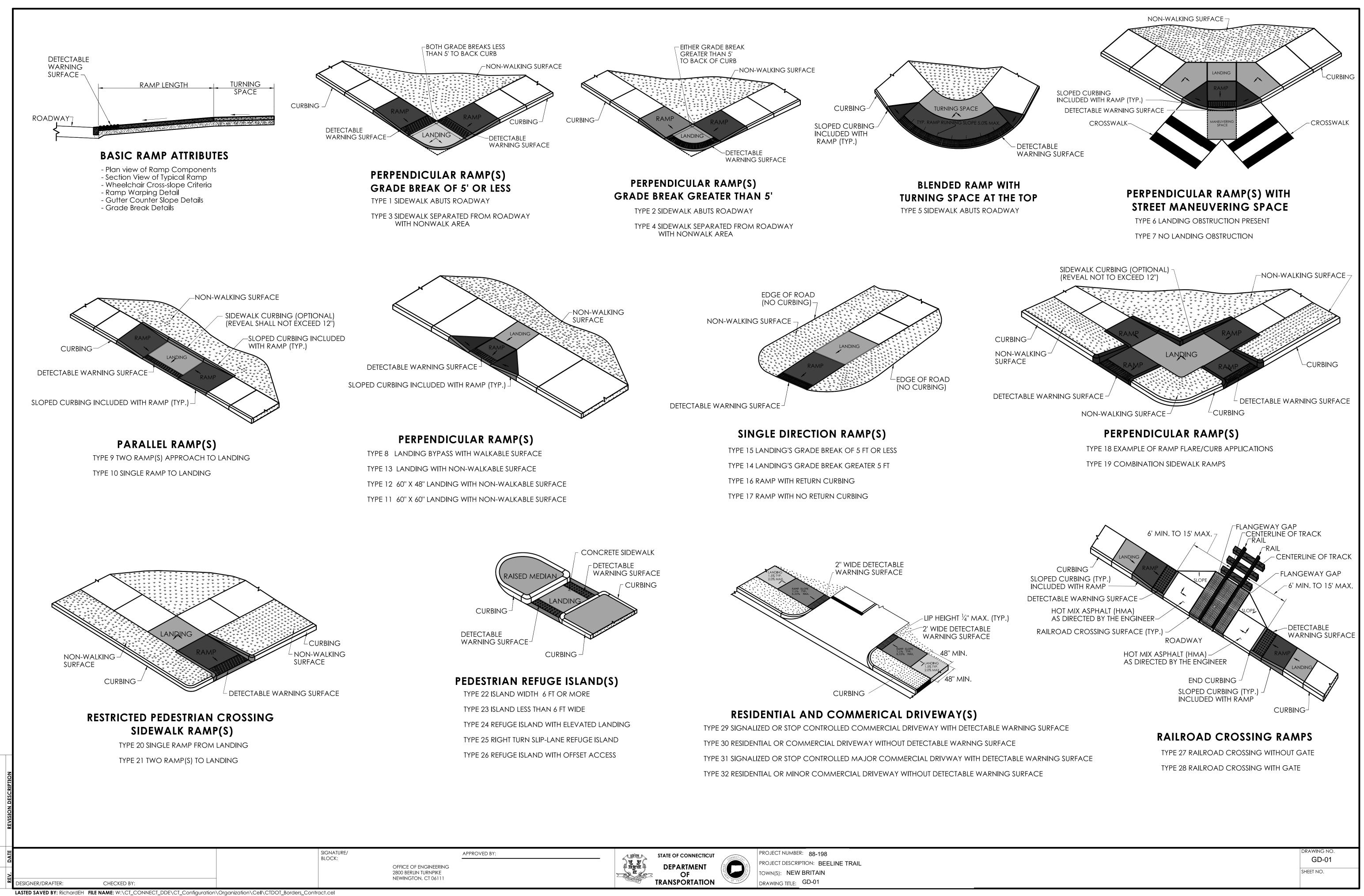
EST PIT NO.	RW-TP-3
HEET	2 of 2
ILE NO.	0038-037.01
HKD BY	TJO
Fround El.	See Log
Datum	NAVD88
ime Start/End	9:10 - 10:00
Date	6/18/2024

1. TEST PITS PERFORMED BY THE CITY OF NEW BRITAIN DEPARTMENT OF PUBLIC WORKS ON JUNE 18, 2024.



	Desc.	
REVISIONS	Date	
	NO.	
Dr Re Sc Pro Dc	esigned awn eviewed ale oject No. ate AD File: BRG210069907	T.M.B. T.M.B. C.A.P. AS NOTED 2100699 08/09/2024
Titl		
I	EST PIT	LOGS

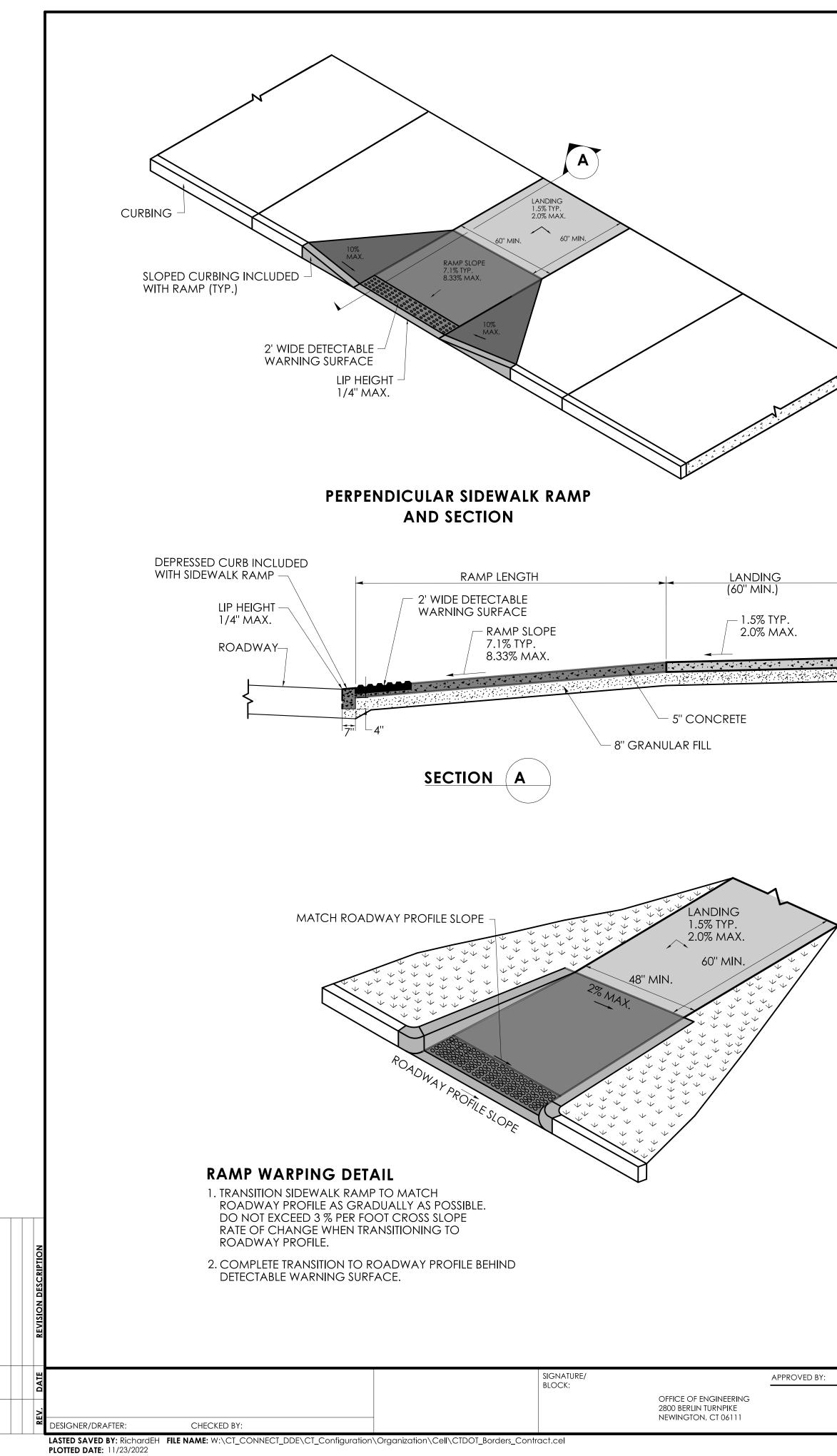
Sheet No.	
S-	-07



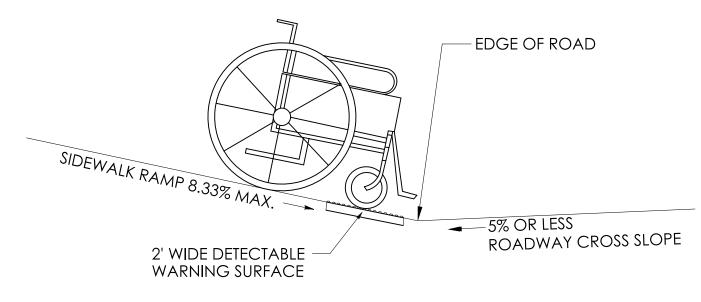
PLOTTED DATE: 11/23/2022

	DV.
OVED	BI:

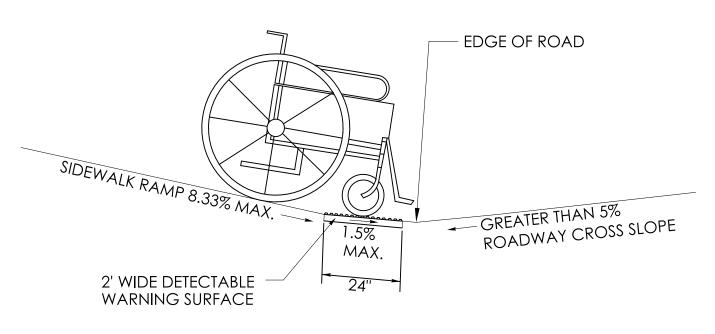
STATE OF C		
DEPAR		
TRANSPC	TRANSTULT	



### **GENERAL NOTES:**



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



### SIDEWALK RAMP GRADE AT **ROADWAY CROSS SLOPE OF GREATER THAN 5% GUTTER COUNTER SLOPE**

DVED BY:		



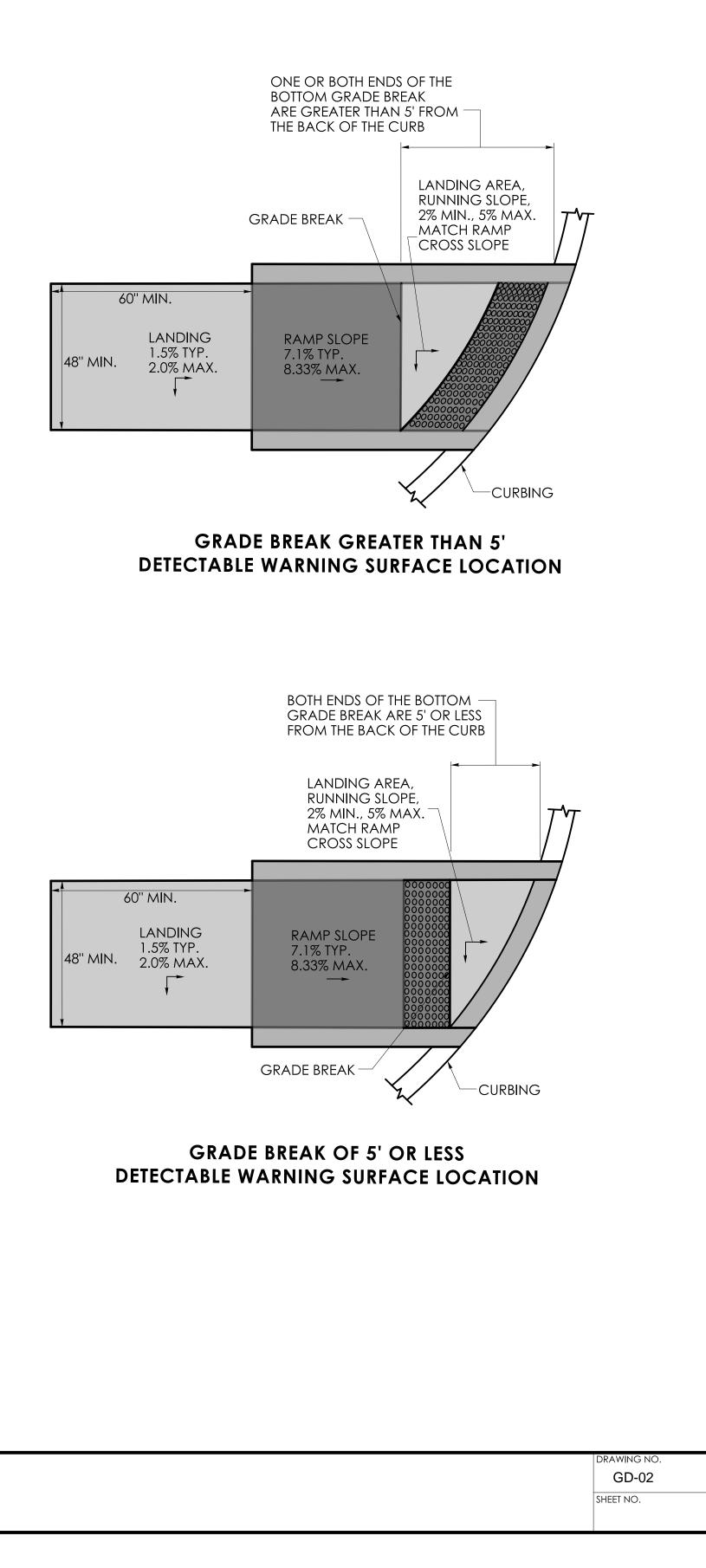


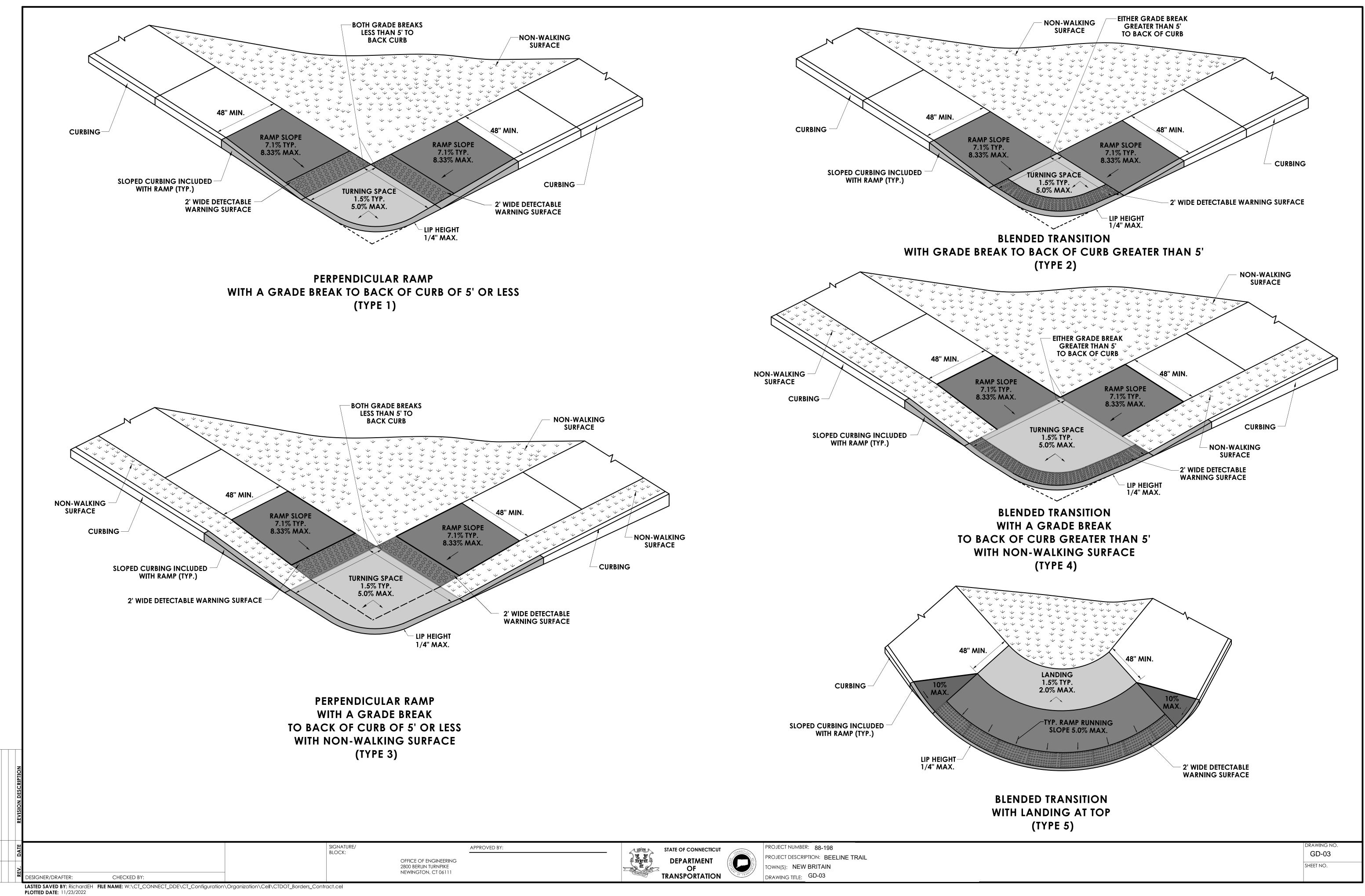
PROJECT NUMBER: 88-198 PROJECT DESCRIPTION: BEELINE TRAIL TOWN(S): NEW BRITAIN DRAWING TITLE: GD-02

1. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP. 2. VERTICAL SURFACE DISCONTINUITIES AT JOINTS SHALL NOT EXCEED  $\frac{1}{4}$  INCH.

3. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION OR CONTRACTION JOINT.

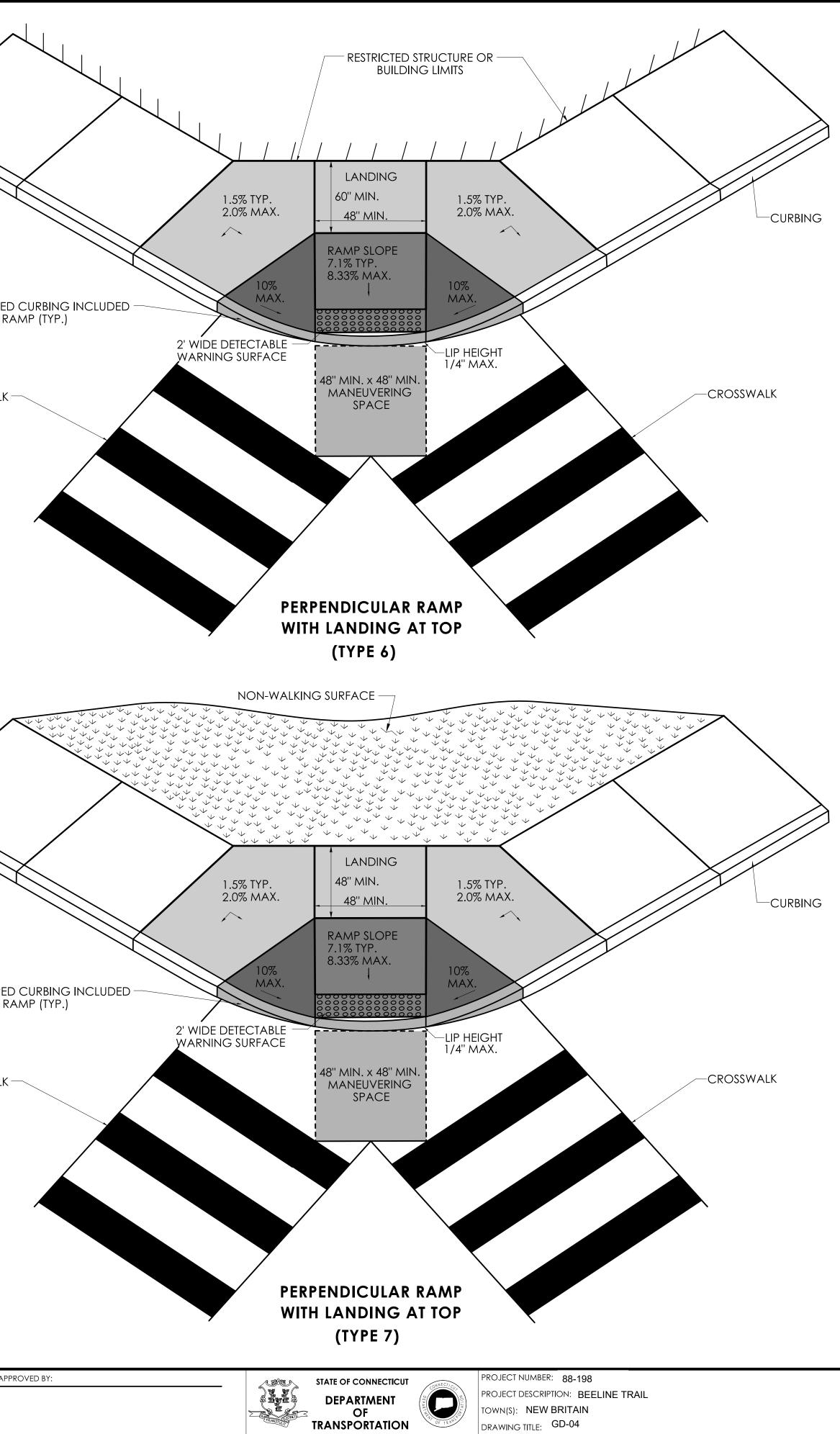
4. THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 8.33 PERCENT MAXIMUM BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET.



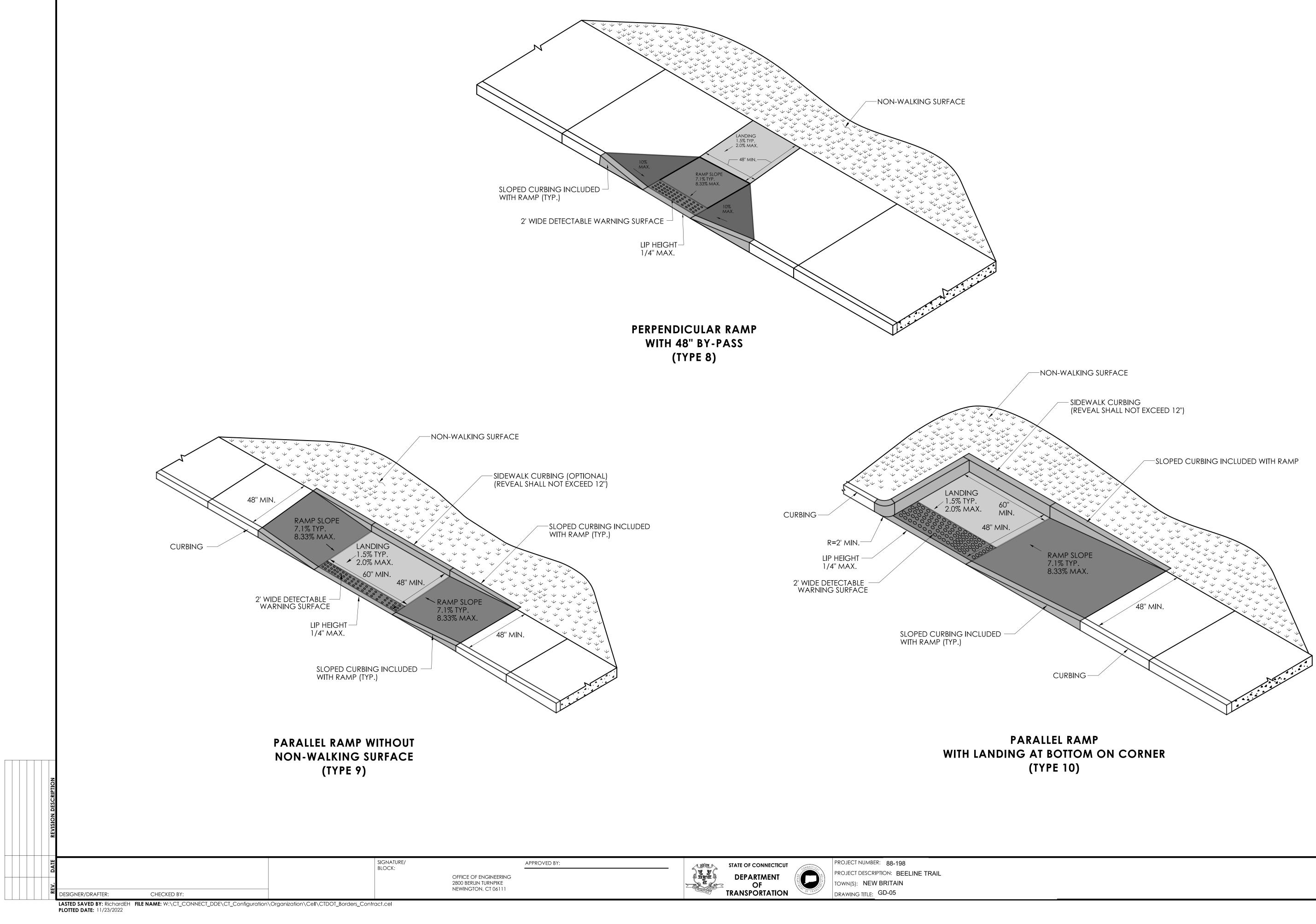


APPROVED BY:	A BREA	STATE OF CONNECTICUT	CONNECT/C/	PROJECT NUMBER: 88-198
		DEPARTMENT		PROJECT DESCRIPTION: BEELINE TRAIL
		OF	PARTNE	TOWN(S): NEW BRITAIN
	TRANSTULT	TRANSPORTATION	DF TRANS	DRAWING TITLE: GD-03

	CROS
	CROS
SIGNATURE/ BLOCK:	

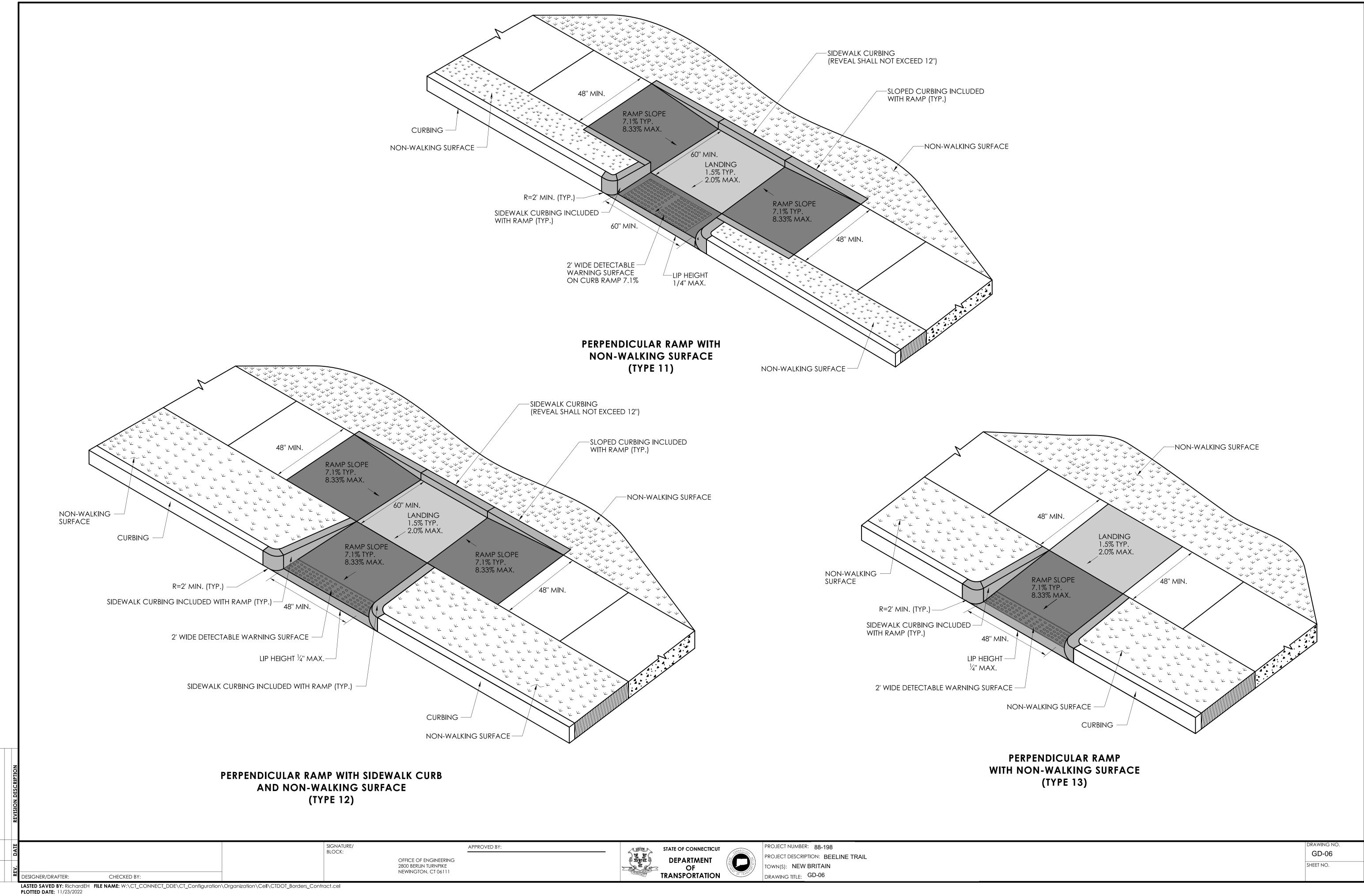


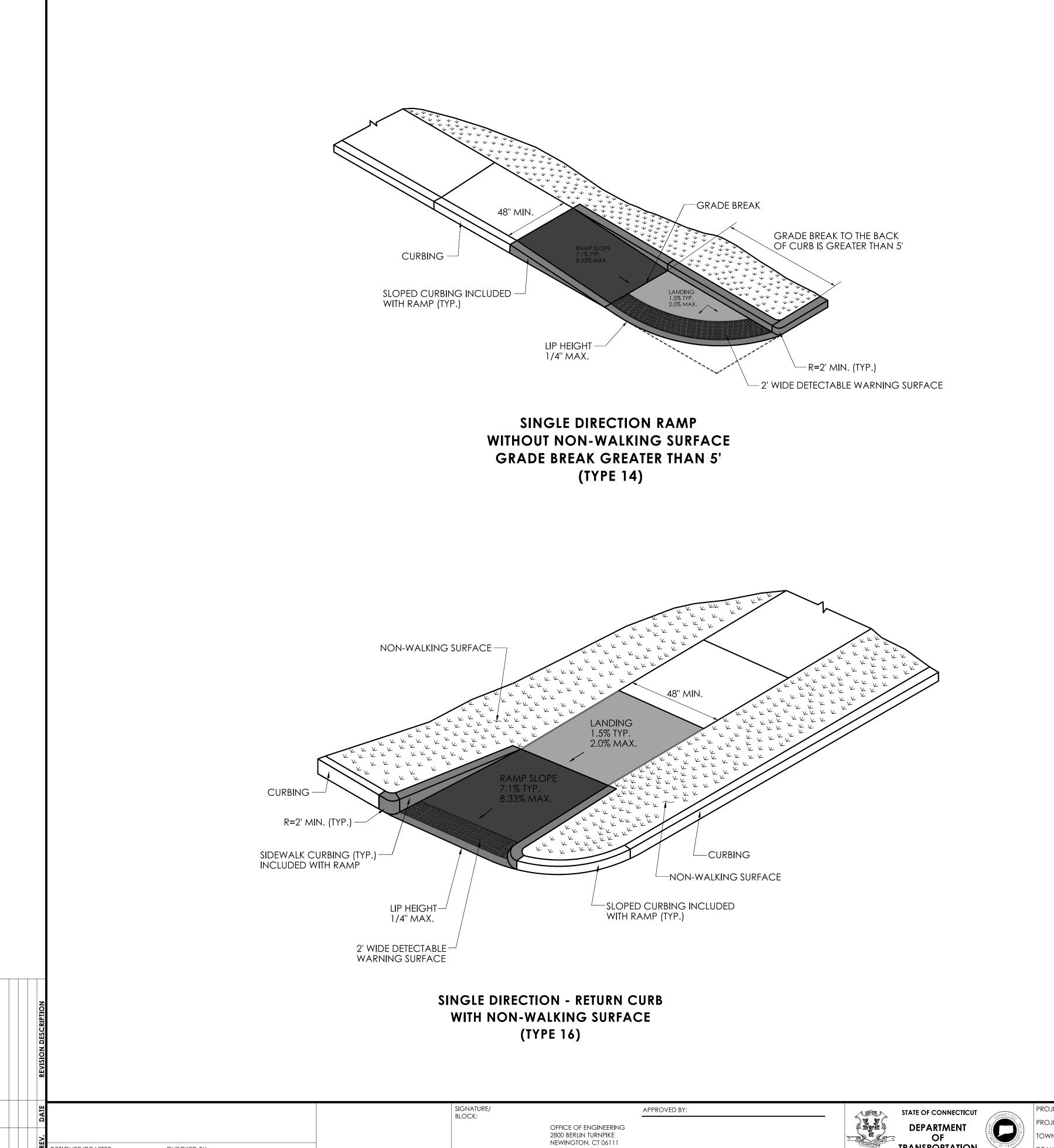
DRAWING NO.
GD-04
Sheet NO.



APPROVED BY:	13tes	STATE OF CONNECTICUT	ONNECT/C	PROJECT NUMBER	R: 88-198
		DEPARTMENT		PROJECT DESCRIP	PTION: BE
		OF	ARTINE	TOWN(S): NEW	' BRITAIN
	TRANSTULT	TRANSPORTATION	OF TRANS	DRAWING TITLE:	GD-05

DRAWING NO. GD-05
Sheet no.

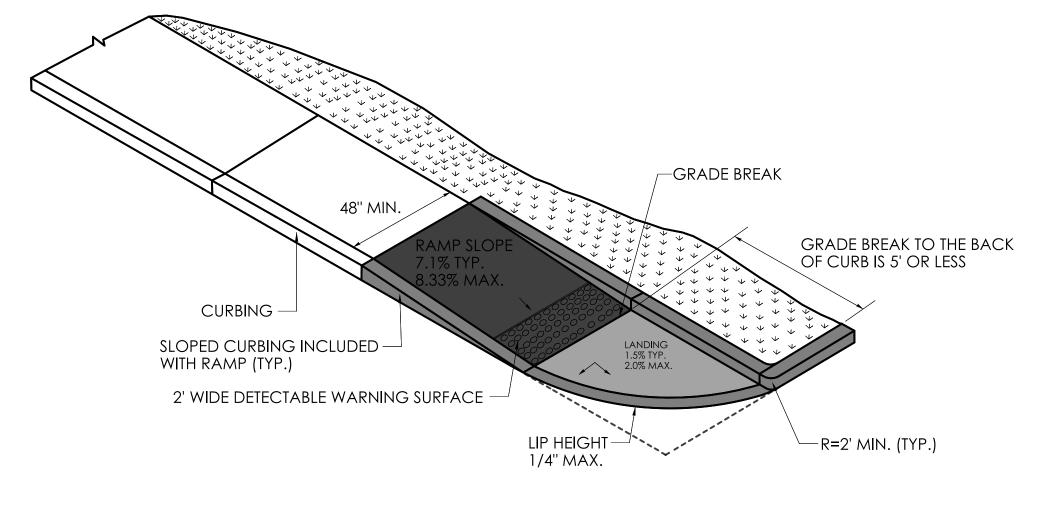




DESIGNER/DRAFTER:

LASTED SAVED BY: RichardEH FILE NAME: W:\CT\_CONNECT\_DDE\CT\_Configuration\Organization\Cell\CTDOT\_Borders\_Contract.cel PLOTTED DATE: 11/23/2022

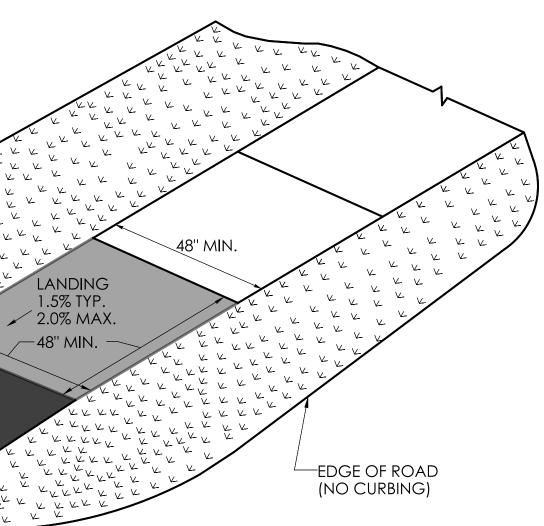
CHECKED BY:



SINGLE DIRECTION RAMP GRADE BREAK TO THE BACK OF CURB IS 5' OR LESS (TYPE 15)

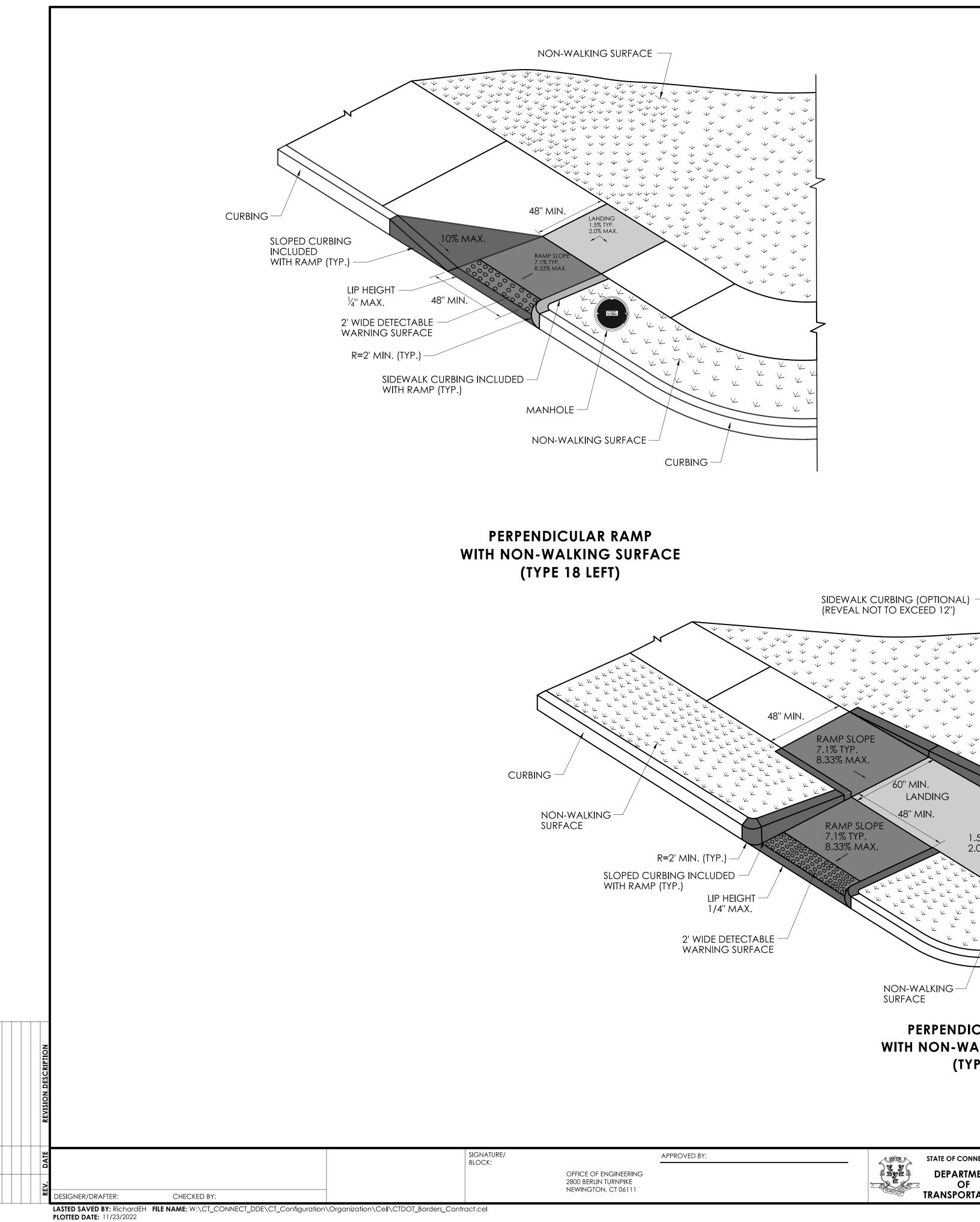
EDGE OF ROAD — (NO CURBING) NON-WALKING SURFACE RAMP SLOPE 8.33% MAX. Lip Height -1/4" MAX. 2' WIDE DETECTABLE -WARNING SURFACE

ROVED BY:	STATE OF CONNECTICUT	CONNECTICUS	PROJECT NUMBER: 88-198
	DEPARTMENT	De Contra III	PROJECT DESCRIPTION: BEELINE TRAIL
	OF	ARTINITY	TOWN(S): NEW BRITAIN
	TRANSPORTATION	OF TRANS!	DRAWING TITLE: GD-07

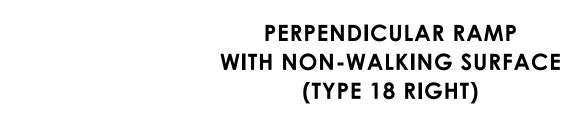


SINGLE DIRECTION - NO CURB WITH NON-WALKING SURFACE (TYPE 17)

> DRAWING NO. GD-07 SHEET NO.



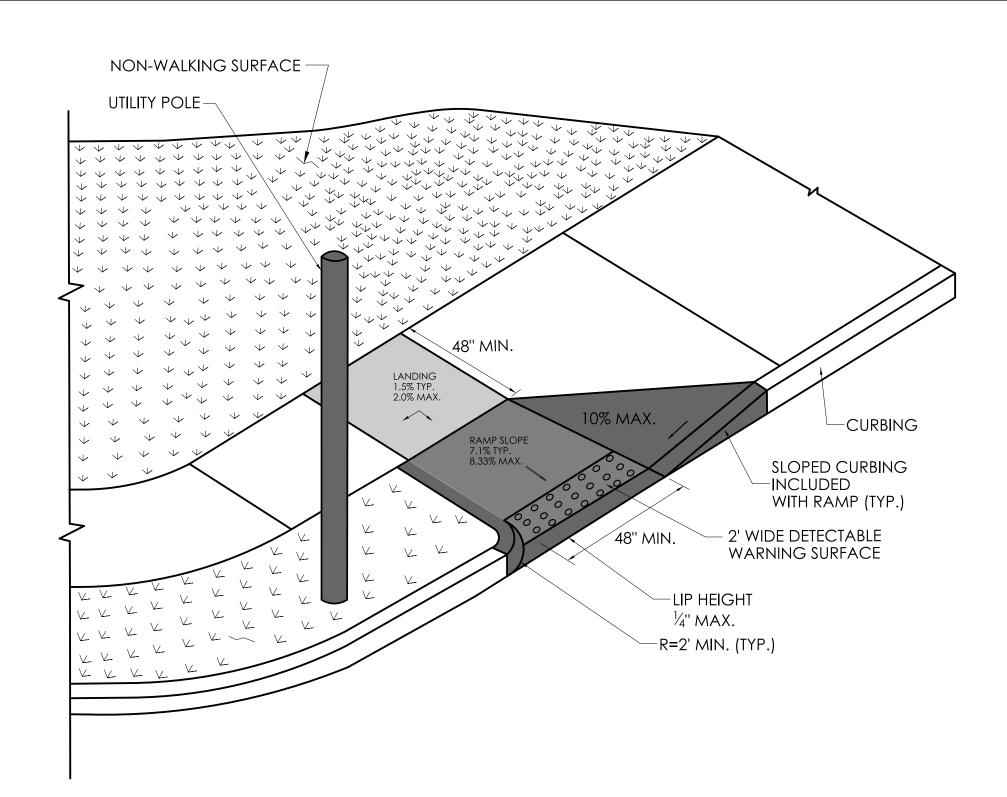
AIN. (TYP.) IIP HEIGHT 1/4" MAX. 2' WIDE DETECTABLE WARNING SURFACE	60' MIN. LANDING 48' MIN. 1.5% TYP. 2.0% MAX. 1.5% TYP. 2.0% TYP. 2.0% MAX. 1.5% TYP. 2.0% TYP.	
OVED BY:	STATE OF CONNECTICUT       PROJECT NUMBER: 88-198         DEPARTMENT       PROJECT DESCRIPTION: BEELINE TRAIL         OF       TOWN(S): NEW BRITAIN         DRAWING TITLE: GD-08	DRAWING NO. GD-08 SHEET NO.



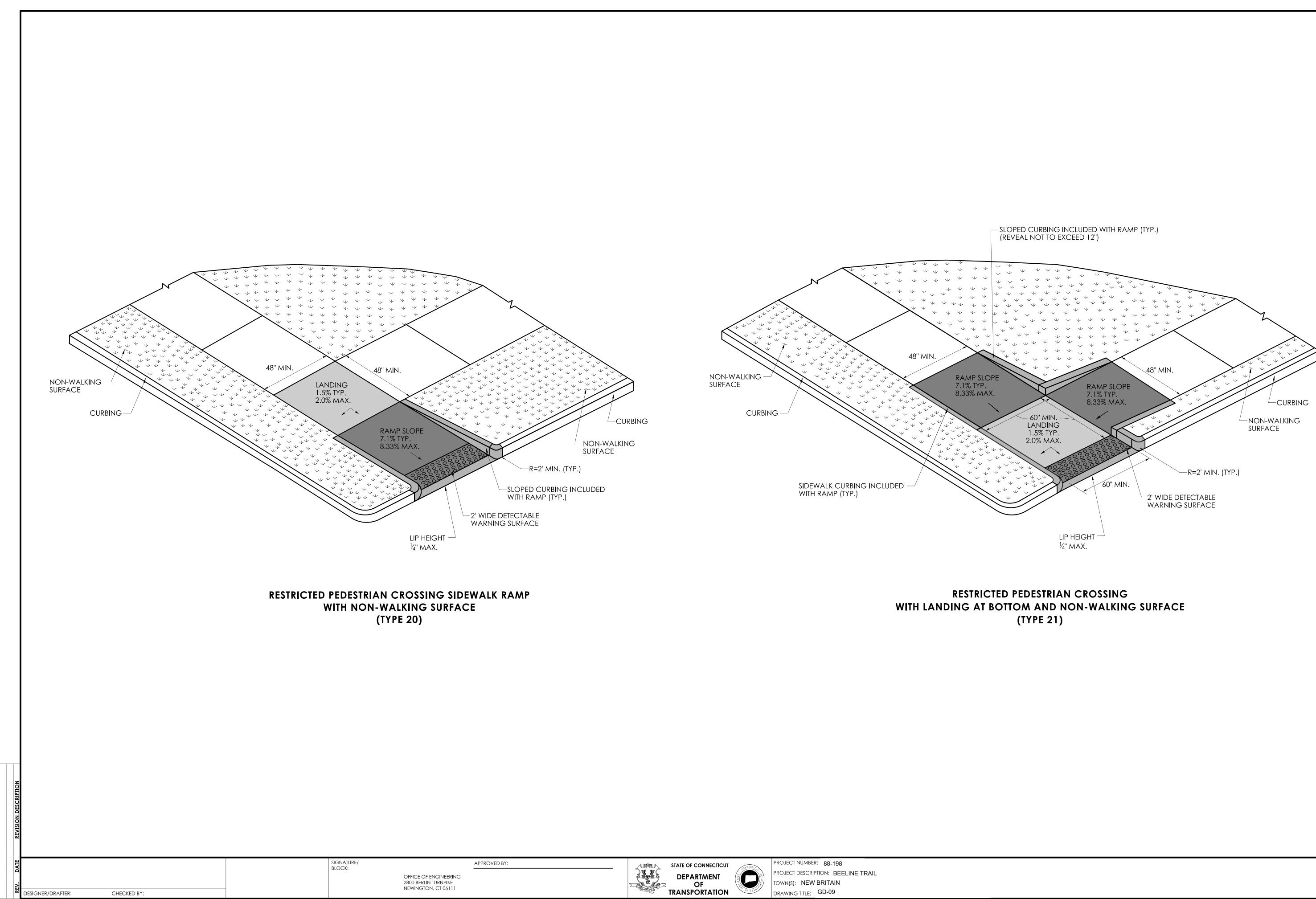
\_48" MIN.

NON-WALKING SURFACE -

RAMP SLOPE 7.1% TYP. 8.33% MAX.





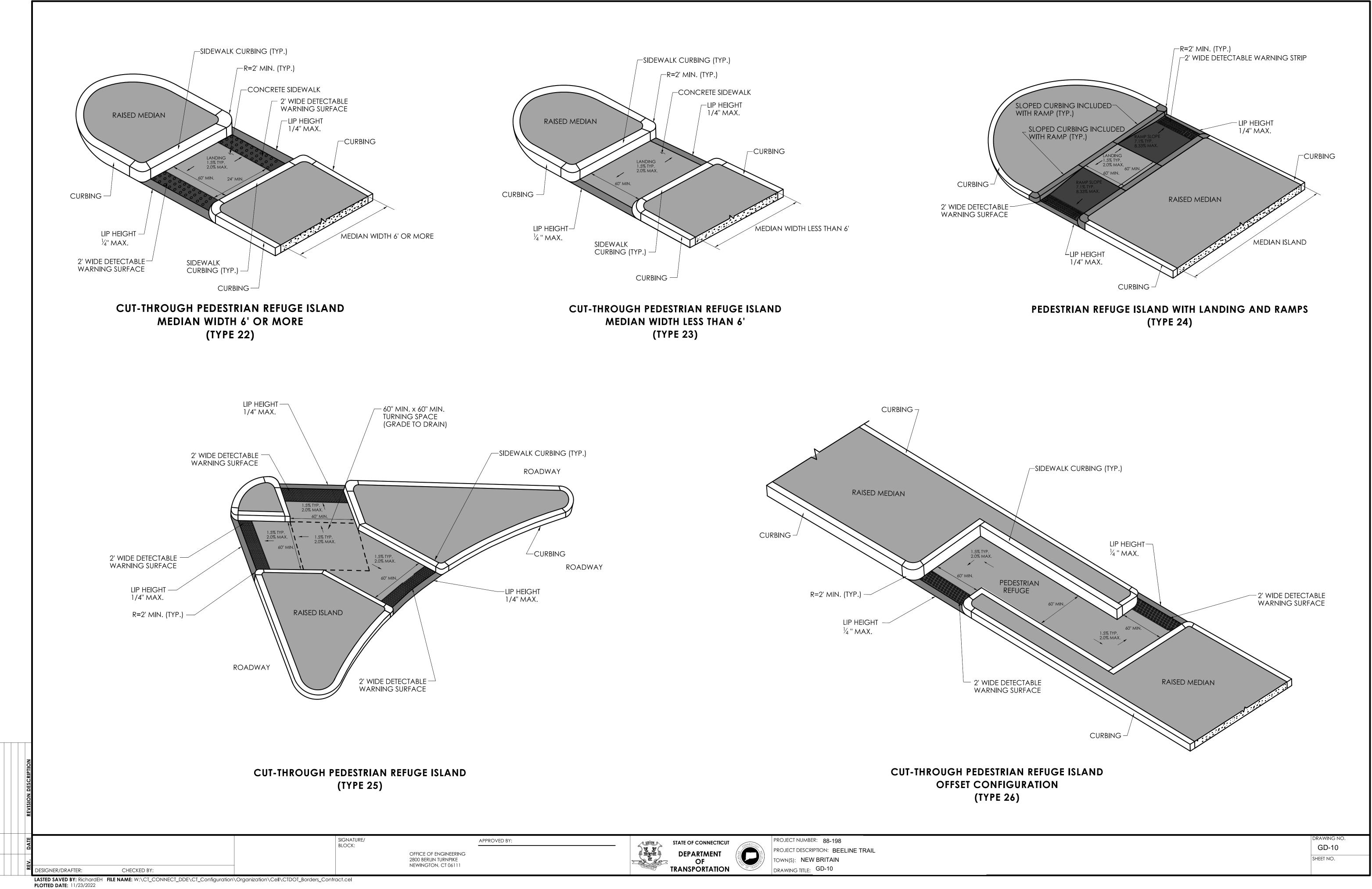


LASTED SAVED BY: RichardEH FILE NAME: W:\CT\_CONNECT\_DDE\CT\_Configuration\Organization\Cell\CTDOT\_Borders\_Contract.cel PLOTTED DATE: 11/23/2022

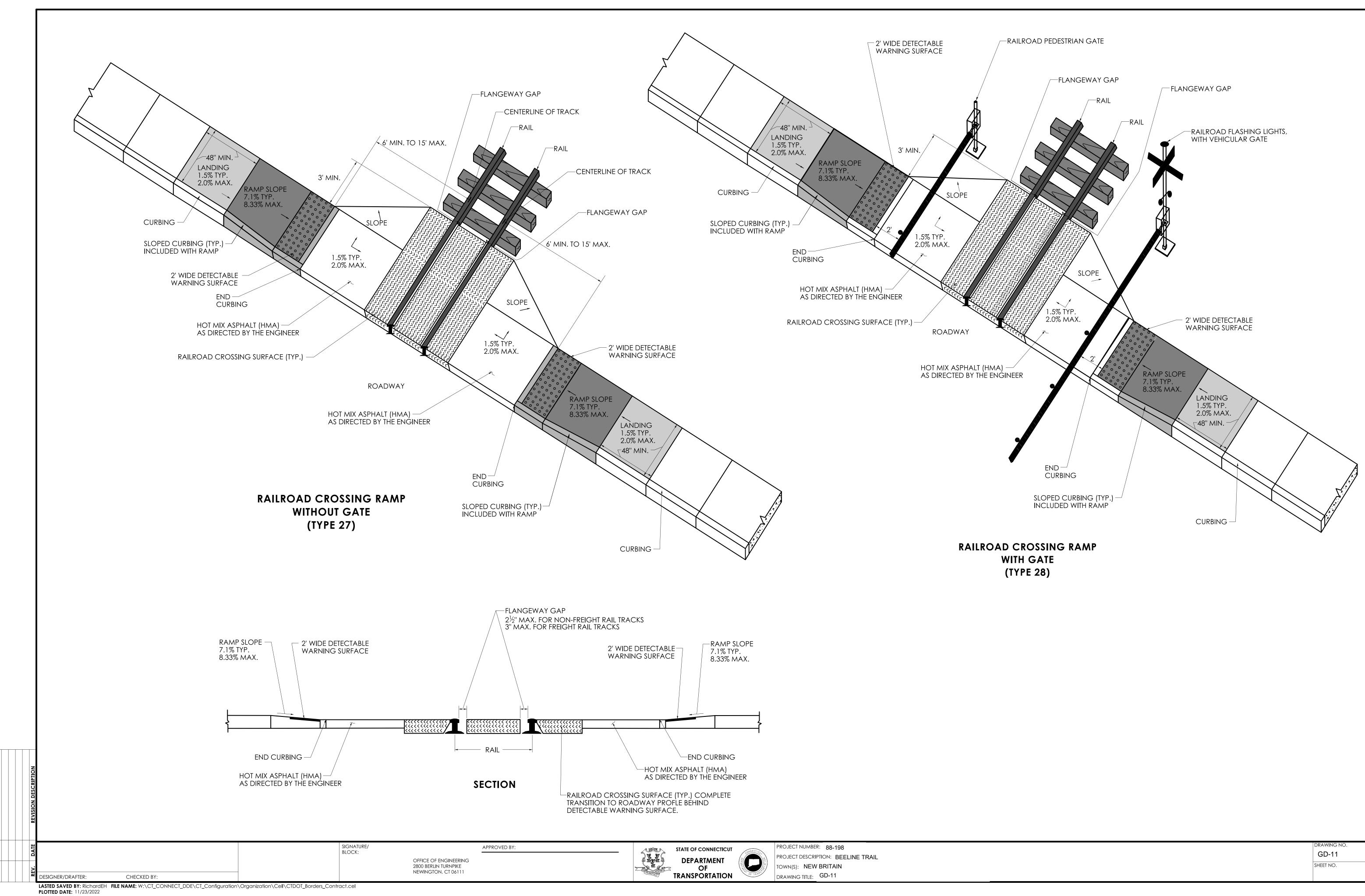
OVED	BY:	

	STATE OF
	DEPA
TRANSTULIT	TRANSP

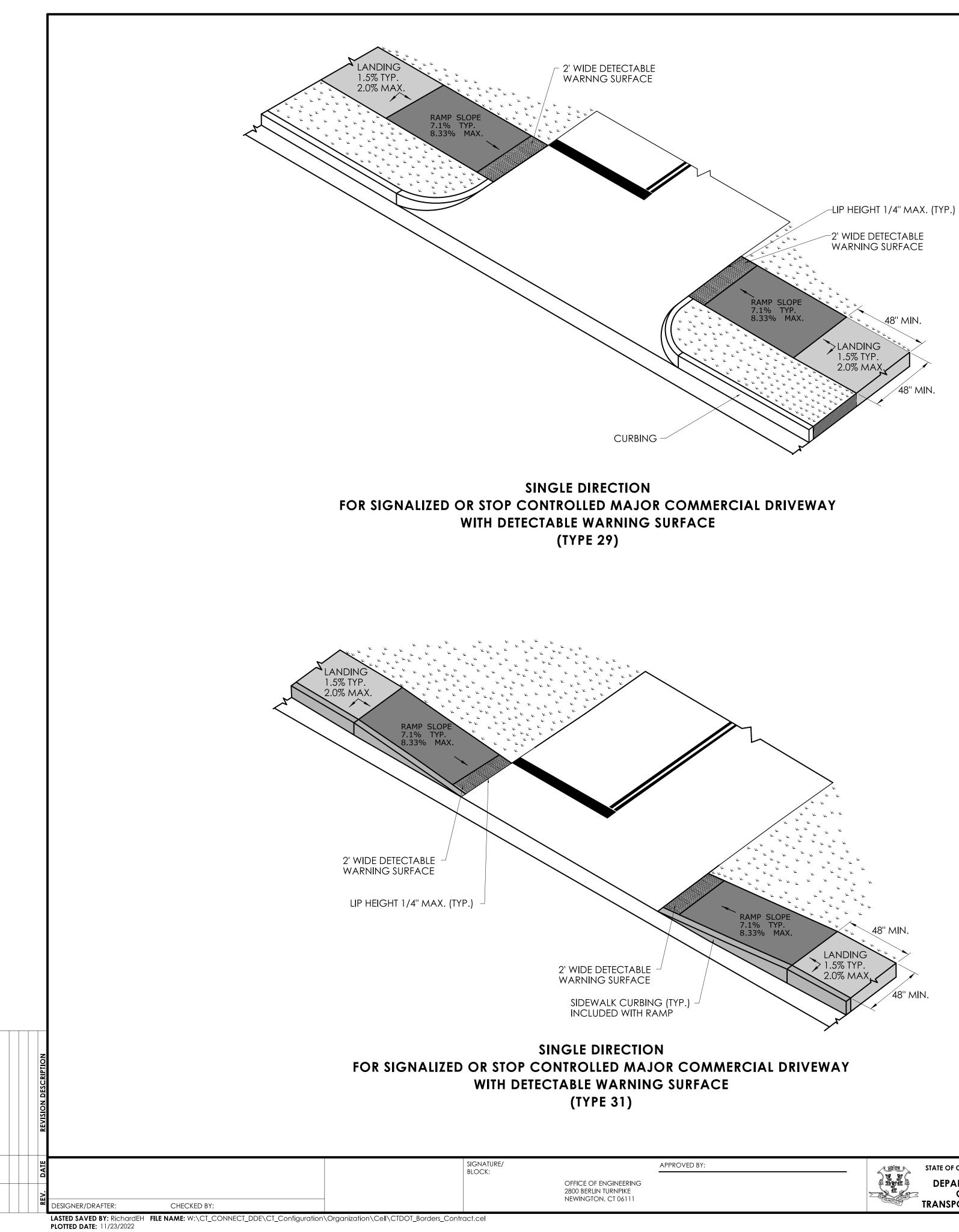
RAWING NO
GD-09
HEET NO.

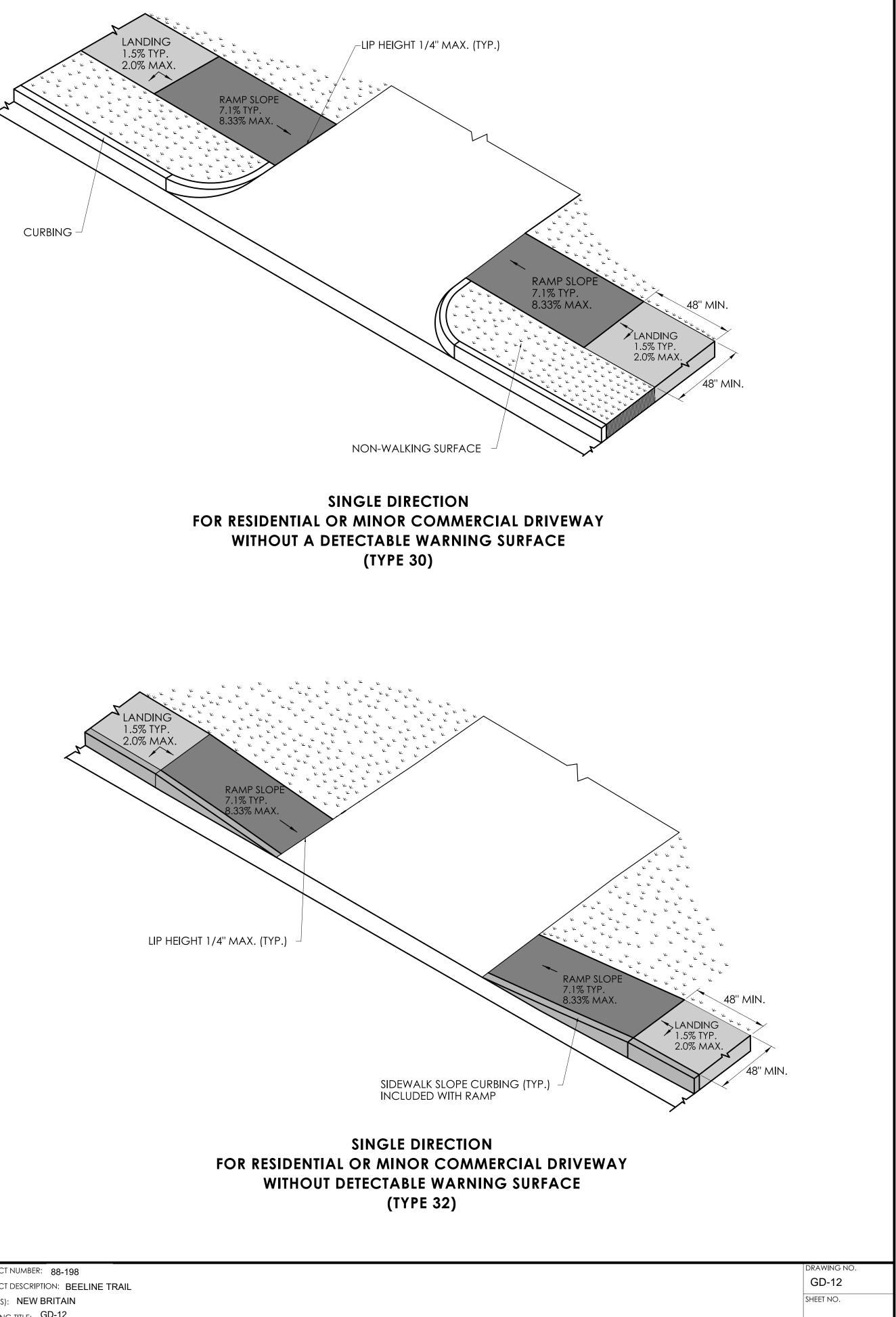


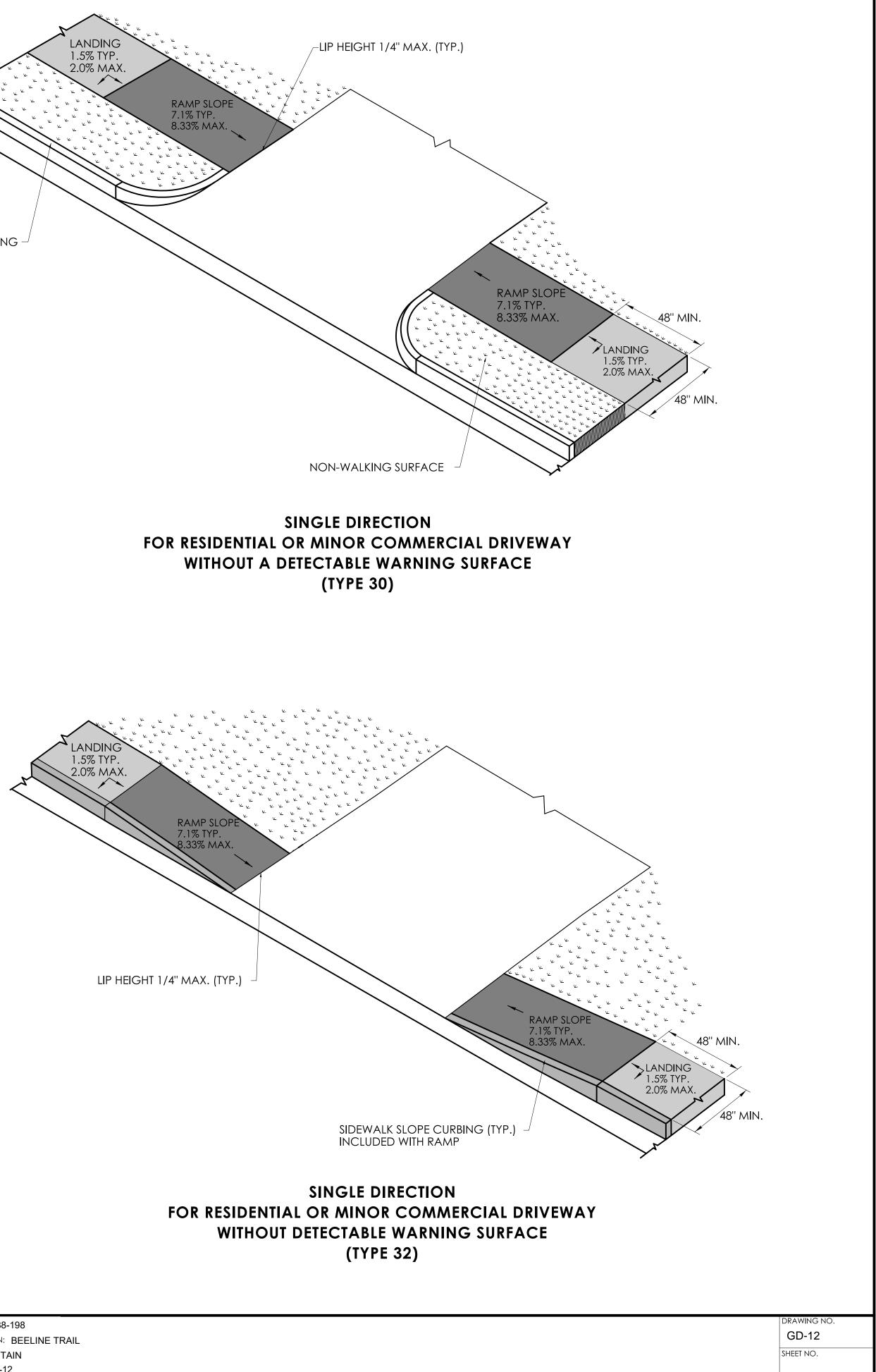
ROVED BY:	L SFEEL	STATE OF CONNECTICUT	ONNECTIO	PROJECT NUMBE
		DEPARTMENT		PROJECT DESCR
		OF	PARINE	town(s): <b>NEV</b>
	TRANSTULIT	TRANSPORTATION	OF TRANS!	DRAWING TITLE:



DRAMINO	
GD-11	

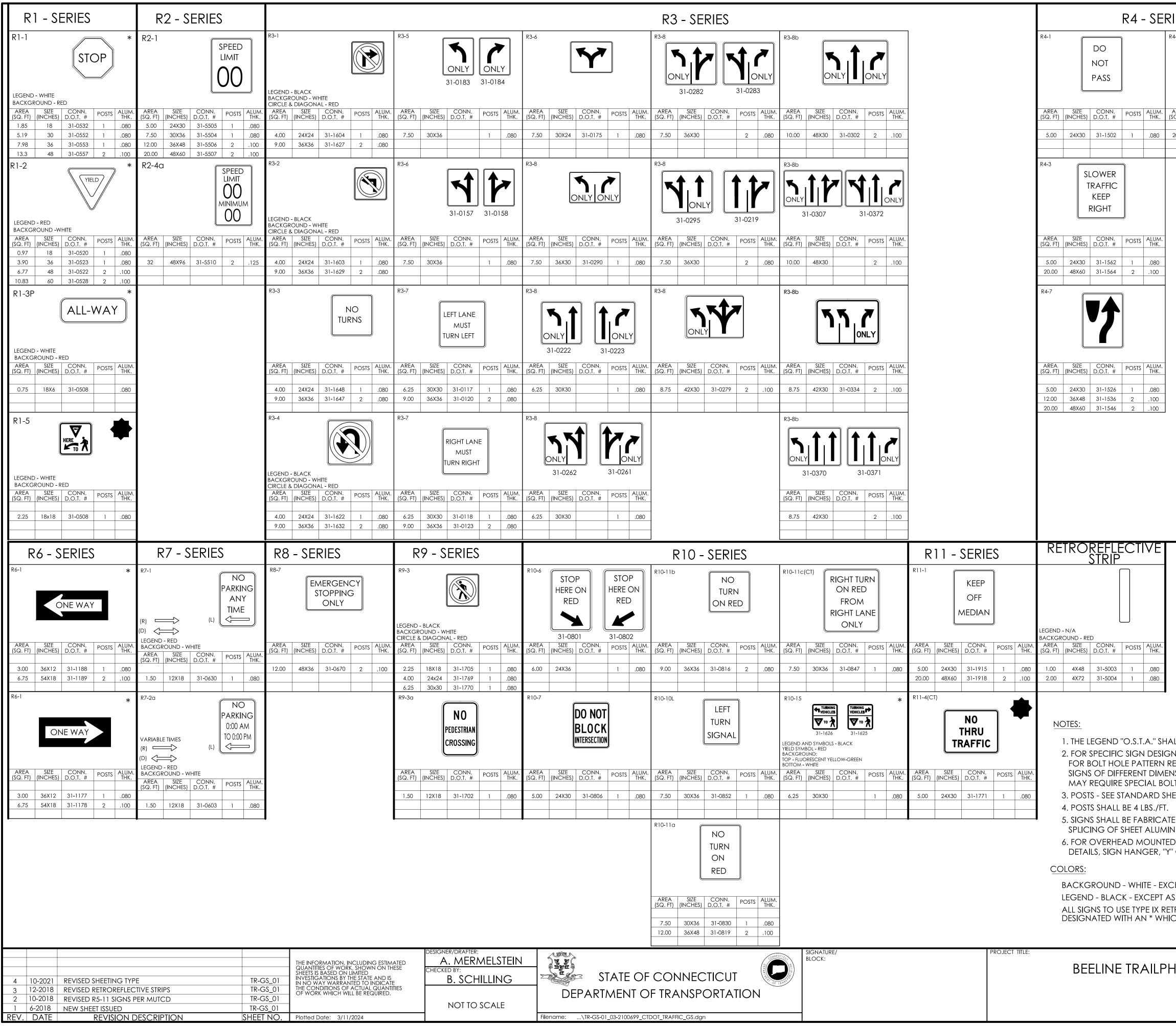






D BY:		6
	DEPARTMENT	DEPA
	OF	RINER

PROJECT NUMBER: 88-198 PROJECT DESCRIPTION: BEELINE TRAIL TOWN(S): NEW BRITAIN DRAWING TITLE: GD-12

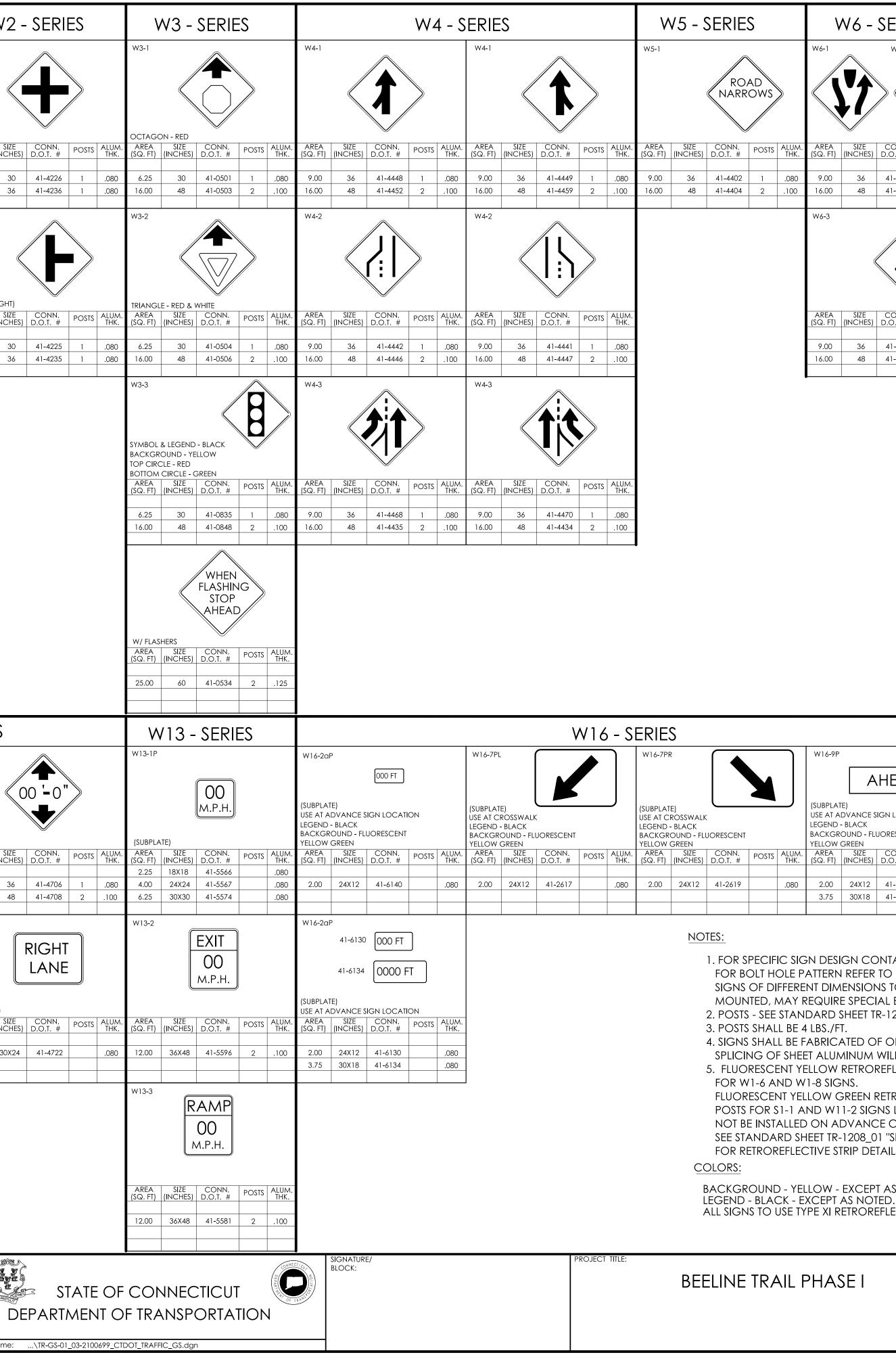


					DESIGNER/DRAFTER: A. MERMELSTEIN	
4	10-2021	REVISED SHEETING TYPE	TR-GS_01	QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE	CHECKED BY: B. SCHILLING	
3	12-2018	REVISED RETROREFLECTIVE STRIPS	TR-GS_01	THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		l Г
2	10-2018	REVISED R5-11 SIGNS PER MUTCD	TR-GS_01	OF WORK WHICH WILL DE REQUIRED.		L
1	6-2018	NEW SHEET ISSUED	TR-GS_01		NOT TO SCALE	
REV.	DATE	<b>REVISION DESCRIPTION</b>	Sheet no.	Plotted Date: 3/11/2024		Filename

ES					R5 - SERIES									
4-16	RI E>	<eep IGHT (CEPT ) PASS</eep 			R5-1	- WHITE OUND - WI	E	NOT NTER	*	R5-10a(C		NC PEDESTI BICYC MOTOR DTOR SC	rians Cles Bikes	
AREA Q. FT)	size (Inches)	CONN. D.O.T. #	POSTS	ALUM. THK.	CIRCLE - AREA (SQ. FT)		CONN. D.O.T. #	POSTS	ALUM. THK.	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
20.00	48X60	31-1574	2	.100	6.25 9.00 16.00	30X30 36X36 48X48	31-1119 31-1120 31-1121	1 2 2	.080 .080 .100	9.00	36X36	31-1775	2	.100
					R5-1a	) Î			*	R5-11				
							WRO WA					THORIZEI EHICLES ONLY		
					LEGEND - BACKGR AREA (SQ. FT)	- WHITE OUND - RE SIZE (INCHES)	D CONN. D.O.T. #	POSTS	ALUM. THK.	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
					6.00 8.75	36X24 42X30	31-1122 31-1123	2 2	.080	5.00 20.00	30X24 48X36	31-1790 31-1792	1 2	.080
					R5-10a(C	 ;T)	VEH 8ft TRA COMMER	IBITED OVER HIGH ILERS RCIAL VEH						
						ION BACK	GROUND - ` ACKGROUN CONN. D.O.T. #		E ALUM. THK.					
					32.50 R5-10c	60X78	31-1719	2	.125					
						PED	NO DESTRIAN	IS						
					AREA (SQ. FT)	size (Inches)	CONN. D.O.T. #	POSTS	ALUM. THK.					
					2.00	24X12	31-1774	1	.080					
												DED CT O		
I CC FER SION T HC	NTACT TO FHV NS TO B DLE PAT	CONN. VA PUBL E ERECT TERNS.	D.O.T ICATIC ED ON	"., DI )n "S   The	/ISION ( Fanda Same F	of tra RD HIG Posts, (	/HEN SU FFIC EN HWAY S OR SPAN	GINEE IGNS'' 1/MAS	RING. ST ARM	M MOU				
ium > sig	WILL NO	DT BE AG	CCEPTI	ED.			JMINUM SONDING		) utili	TY POL	E ATTAG	CHMENI		
S NO ROR	EFLECT						N OF ON NG.	/ERHE	AD M	OUNTE	d SIGN	s and s	IGNS	
	`			TOW	/N:								ject no <b>088-</b>	0198

IASE I	NEW BRITAIN		0088-0198 drawing no. TR-GS 01
	DRAWING TITLE:	$\bigcirc$	IK-G3_01
	SIGN FACE SHEET ALUMINUM	$(\mathbf{x})$	SHEET NO.
	<b>R-SERIES TYPICAL SIGN DETAILS</b>		

	- SE	RIES								i	V1 - S	SERIE	S		1						W2
S1-1 LEGEND	- BLACK	<b>XX</b>			W1-1L	(				W1-1R				>	W1-6					W2-1	K
BACKGR YELLOW AREA	OUND - FL GREEN SIZE	UORESCENT CONN. D.O.T. #	POSTS	ALUM. THK.	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	BACKGR (LEFT OR AREA (SQ. FT)		CONN. D.O.T. #	POSTS	1	AREA (SQ. FT)	SIZE (INCHE
6.75 12.00	36 48	41-2112 41-2113	1 2	.080 .100	6.25 9.00	30 36	41-4006 41-4031	1	.080 .080	6.25 9.00	30 36	41-4005 41-4160	1	.080 .080	8.00 12.50	48X24 60X30	41-4223 41-4262	2 2	.100 .100	6.25 9.00	30 36
					W1-2	Ķ			)	W1-2	¢			)	W1-7			<b>→</b>	•	W2-2	
					AREA (SQ. FT)	SIZE (INCHES)		POSTS			SIZE (INCHES)	CONN. D.O.T. #	POSTS		(SQ. FT)	SIZE (INCHES)		POSTS		(LEFT OR AREA (SQ. FT)	SIZE (INCHE
					6.25 9.00	30 36	41-4029 41-4169	1	.080 .080	6.25 9.00	30 36	41-4168 41-4032	1	.080	8.00	48X24 60X30	41-4207 41-4208	2	.100	6.25 9.00	30 36
															W1-8 LEGEND BACKGR (LEFT OR AREA (SQ. FT) 3.00 7.50	OUND - FL	UORESCENT CONN. D.O.T. # 41-3951 41-4211	POSTS			
	W9	- SER	IES			W1(	) - SE	RIES	S						12.00	36X48	41-4260	2	.080	ļ	
W9-1		LEFT			W10-1	R	R														
AREA	SIZE	LANE ENDS	POSIS	ALUM.	AREA			/	ALUM.												
AREA (SQ. FT) 9.00 16.00	SIZE (INCHES) 36 48	LANE ENDS	POSTS 1 2	ALUM. THK. .080 .100	AREA (SQ. FT) 9.00	SIZE (INCHES) 36		POSTS	ALUM. THK. .080	W	11 -	SERIE	S					W1	2 - \$	SERIE	ΞS
(SQ. FT) 9.00	36 48	LANE ENDS CONN. D.O.T. # 41-4443	1	.080	(SQ. FT) 9.00 W10-2	SIZE (INCHES) 36	CONN. D.O.T. # 41-2205	/	.080	W11-2 LEGEND BACKGR	- BLACK OUND - FL		S		W12-1			W1	2 - \$	SERIE W12-2	ΞS
(SQ. FT) 9.00 16.00 W9-2 AREA (SQ. FT)	36 48	LANE ENDS CONN. D.O.T. # 41-4443 41-4444 ANE ENDS MERGE LEFT CONN. D.O.T. #	1 2 POSTS	.080 .100 ALUM. THK.	(SQ. FT) 9.00 W10-2 (LEFT OR AREA (SQ. FT)	RIGHT)	CONN. D.O.T. # 41-2205			W11-2 LEGEND BACKGR YELLOW AREA (SQ. FT)	- BLACK OUND - FL GREEN SIZE (INCHES)	UORESCENT D.O.T. #	POSTS		AREA (SQ. FT)	SIZE (INCHES)		W1	ALUM. THK.	AREA (SQ. FT)	SIZE (INCHE
(SQ. FT) 9.00 16.00 W9-2 W9-2 AREA (SQ. FT) 9.00 16.00	36 48	LANE ENDS CONN. D.O.T. # 41-4443 41-4444 A1-4444		.080 .100	(SQ. FT) 9.00 W10-2 (LEFT OR AREA	SIZE (INCHES) 36	CONN. D.O.T. # 41-2205		.080	W11-2 LEGEND BACKGR YELLOW	- BLACK OUND - FL GREEN	UORESCENT		ALUM. THK. .080 .080		SIZE (INCHES) 30 36	CONN. D.O.T. # 41-4213 41-4215			W12-2	SIZE
(SQ. FT) 9.00 16.00 W9-2 W9-2 AREA (SQ. FT) 9.00	36 48 	LANE ENDS CONN. D.O.T. # 41-4443 41-4444 ANE ENDS MERGE LEFT CONN. D.O.T. # 41-4454	1     2   POSTS     1	.080 .100 .100 .100	(SQ. FT) 9.00 W10-2 (LEFT OR AREA (SQ. FT)	RIGHT)	CONN. D.O.T. # 41-2205			W11-2 LEGEND BACKGR YELLOW AREA (SQ. FT) 6.25 9.00	- BLACK OUND - FL GREEN SIZE (INCHES) 30	UORESCENT CONN. D.O.T. # 41-4829	POSTS	.080	AREA (SQ. FT) 6.25	(INCHES) 30	41-4213	POSTS	ALUM. THK.	W12-2 AREA (SQ. FT) 9.00	SIZE (INCHE 36
(SQ. FT) 9.00 16.00 W9-2 W9-2 AREA (SQ. FT) 9.00 16.00	36 48 	LANE ENDS CONN. D.O.T. # 41-4443 41-4444 ANE ENDS MERGE LEFT CONN. D.O.T. # 41-4454 41-4454 41-4456 RIGHT LANE ENDS	1     2   POSTS     1	.080 .100 .100 .100	(SQ. FT) 9.00 W10-2 (LEFT OR AREA (SQ. FT)	RIGHT)	CONN. D.O.T. # 41-2205			W11-2 LEGEND BACKGR YELLOW AREA (SQ. FT) 6.25 9.00 W11-8	- BLACK OUND - FL GREEN SIZE (INCHES) 30	UORESCENT CONN. D.O.T. # 41-4829 41-4830	POSTS	.080	AREA (SQ. FT) 6.25 9.00 (SUBPLA	(INCHES) 30 36	41-4213 41-4215 LEFT LANE	POSTS	ALUM. THK. .080 .080	W12-2 AREA (SQ. FT) 9.00	SIZE (INCHE 36 48
(SQ. FT) 9.00 16.00 W9-2 W9-2 9.00 16.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	36 48 (INCHES) 36 48	LANE ENDS CONN. D.O.T. # 41-4443 41-4444 ANE ENDS MERGE LEFT CONN. D.O.T. # 41-4454 41-4454 41-4456 RIGHT LANE ENDS	1 2 POSTS 1 2	.080 .100 .100 .080 .100	(SQ. FT) 9.00 W10-2 (LEFT OR AREA (SQ. FT)	RIGHT)	CONN. D.O.T. # 41-2205			W11-2 LEGEND BACKGR YELLOW AREA (SQ. FT) 6.25 9.00 W11-8 W11-8 AREA (SQ. FT) 6.25 9.00	- BLACK OUND - FL GREEN SIZE (INCHES) 30 36 SIZE (INCHES) 30 36 30 36	UORESCENT CONN. D.O.T. # 41-4829 41-4830	POSTS	.080	AREA (SQ. FT) 6.25 9.00 (SUBPL/ AREA (SQ. FT) 5.00	(INCHES) 30 36 36 30 36 (INCHES) 30X24	41-4213 41-4215 LEFT LANE	POSTS	ALUM. THK. .080 .080	W12-2 AREA (SQ. FT) 9.00 16.00 (SUBPLA	SIZE (INCHE 36 48
(SQ. FT) 9.00 16.00 W9-2 W9-2 AREA (SQ. FT) 9.00 16.00 W9-1 W9-1	36 48 	LANE ENDS CONN. D.O.T. # 41-4443 41-4444 ANE ENDS MERGE LEFT CONN. D.O.T. # 41-4454 41-4456 RIGHT LANE ENDS CONN. D.O.T. # 41-4440	1       2       POSTS       1       2   POSTS       1       2	.080 .100 .100 .080 .100 .100	(SQ. FT) 9.00 W10-2 (LEFT OR AREA (SQ. FT)	RIGHT)	CONN. D.O.T. # 41-2205			W11-2 LEGEND BACKGR YELLOW AREA (SQ. FT) 6.25 9.00 W11-8 W11-8 AREA (SQ. FT) 6.25 9.00 W11-15 LEGEND (1) BACKG	- BLACK OUND - FL GREEN SIZE (INCHES) 30 36 30 36 30 36 30 36 - BLACK ROUND - FLUC	UORESCENT UORESCENT D.O.T. # 41-4829 41-4830 CONN. D.O.T. # 41-4680 41-4681 41-4681 41-4681 CONN. D.O.T. #	POSTS 1 1 1 POSTS 1 1 DW GREEN	080 080 080 080 080	AREA (SQ. FT) 6.25 9.00 (SUBPLA AREA (SQ. FT) 5.00 W11-15	(INCHES) 30 36 ATE) SIZE (INCHES) 30X24 P C C C C C C C C C C C C C	41-4213 41-4215 LEFT LANE	POSTS	ALUM. THK. .080 .080 .080	W12-2 AREA (SQ. FT) 9.00 16.00 (SUBPLA AREA (SQ. FT)	ATE)
(SQ. FT) 9.00 16.00 W9-2 AREA (SQ. FT) 9.00 16.00 W9-1 W9-1 W9-1 W9-1 W9-1 W9-1 W9-1	36 48 (INCHES) 36 48 36 48 36 48 36 48 36 48 36 48	LANE ENDS CONN. D.O.T. # 41-4443 41-4444 ANE ENDS MERGE LEFT CONN. D.O.T. # 41-4454 41-4456 KIGHT LANE ENDS CONN. D.O.T. # 41-4440 41-4445 ANE ENDS MERGE RIGHT LANE ENDS CONN. D.O.T. #	1         2         POSTS         1         2         POSTS         1         2         1         2	ALUM. THK. 0.080 .100 .080 .100 .100 .100	(SQ. FT) 9.00 W10-2 (LEFT OR AREA (SQ. FT)	RIGHT)	CONN. D.O.T. # 41-2205			W11-2 LEGEND BACKGR YELLOW AREA (SQ. FT) 6.25 9.00 W11-8 W11-8 G.25 9.00 W11-15 C.25 9.00 W11-15 ULEGEND (1) BACKG (2) BACKG (2) BACKG (2) BACKG (2) BACKG (2) C.25 (2) C.25 (	- BLACK OUND - FL GREEN SIZE (INCHES) 30 36 30 36 30 36 30 36 - - BLACK ROUND - FLUC SIZE (INCHES)	UORESCENT UORESCENT D.O.T. # 41-4829 41-4830 CONN. D.O.T. # 41-4680 41-4681 CONN. D.O.T. # 41-4680 41-4681 CONN. D.O.T. #	POSTS 1 1 1 1 POSTS 1 1 1 POSTS 1 1 POSTS 1 1 POSTS 1 1 1 POSTS 1 1 POSTS 1 1 POSTS 1 1 POSTS 1 PO	080 080 .080 .080 .080 .080 .080	AREA (SQ. FT) 6.25 9.00 (SUBPL/ AREA (SQ. FT) 5.00 W11-15 W11-15 BACKGR YELLOW AREA (SQ. FT)	(INCHES) 30 36 30 36 T SIZE (INCHES) 30X24 P C SIZE (INCHES) C SIZE (INCHES) SIZE (INCHES)	41-4213 41-4215 LEFT LANE 0.0.T. # 41-4721 <b>RAIL</b> (-ING		АLUМ. ТНК. .080 .080 .080 .080 .080	W12-2 AREA (SQ. FT) 9.00 16.00 (SUBPLA AREA (SQ. FT) 5.00	ATE)
(SQ. FT) 9.00 16.00 W9-2 AREA (SQ. FT) 9.00 16.00 W9-1 W9-1 AREA (SQ. FT) 9.00 16.00 W9-1	36 48 (INCHES) 36 48 (INCHES) 36 48 36 48 36 48	LANE ENDS CONN. D.O.T. # 41-4443 41-4444 ANE ENDS MERGE LEFT CONN. D.O.T. # 41-4454 41-4456 RIGHT LANE ENDS CONN. D.O.T. # 41-4440 41-4440 41-4440	1         2         POSTS         1         2         POSTS         1         2         1         2	.080 .100 .100 .080 .100 .100 .100 .100	(SQ. FT) 9.00 W10-2 (LEFT OR AREA (SQ. FT)	RIGHT)	CONN. D.O.T. # 41-2205			W11-2 LEGEND BACKGR YELLOW AREA (SQ. FT) 6.25 9.00 W11-8 AREA (SQ. FT) 6.25 9.00 W11-15 6.25 9.00 W11-15 LEGEND (1) BACKG (2) BACKG AREA	- BLACK OUND - FL GREEN SIZE (INCHES) 30 36 30 36 30 36 30 36 - BLACK ROUND - FLUC ROUND - FLUC (INCHES) 30 30 30 30 30 30	UORESCENT UORESCENT D.O.T. # 41-4829 41-4830 41-4830 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	POSTS 1 1 1 V V V V V V V V V V V V V V V V	080 080 080 080 080 080 080 080 080 080	AREA (SQ. FT) 6.25 9.00 (SUBPL/ AREA (SQ. FT) 5.00 W11-15 W11-15 BACKGR YELLOW AREA (SQ. FT) 3.00	INCHES) 30 36 30 36 TE) SIZE (INCHES) 30X24 P CHECKE CHECKE CHECKE	41-4213 41-4215 LEFT LANE 0.0.T. # 41-4721 A1-4721 VORESCENT CONN. D.O.T. # 41-4839 41-4839 ER/DRAFTER		ALUM. THK. .080 .080 .080 .080 .080	W12-2 AREA (SQ. FT) 9.00 16.00 (SUBPLA AREA (SQ. FT) 5.00	ATE)



٧	N6 -	SERIE	ES		V	v7 - 3	SERIE	S		V	v8 - \$	SERIE	S	
W6-1	AREA SIZE CONN. POSTS ALUI				W7-1				>	W8-5	\$			)
AREA SQ. FT)	size (Inches)	CONN. D.O.T. #	POSTS	ALUM. THK.	AREA (SQ. FT)	size (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.	AREA (SQ. FT)	size (INCHES)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4335	1	.080	6.25	30	41-4506	1	.080	6.25	30	41-4519	1	.080
16.00	48	41-4330	2	.100	9.00 16.00	36 48	41-4530 41-4508	1	.080 .100	9.00	36 48	41-4520 41-4521	1	.080
W6-3	(			۶						W8-10		YCLISTS ISMOUNT		
AREA SQ. FT)	size (inches)	CONN. D.O.T. #	POSTS	ALUM. THK.						AREA (SQ. FT)	size (inches)	CONN. D.O.T. #	POSTS	ALUM. THK.
9.00	36	41-4329	1	.080						6.25	30	41-1392	1	.080
16.00	48	41-4331	2	.100										

						RE	TRO	REFL	EC	TIVE	STRI	Ρ		
V16-9P							ſ					١		
	AHEAD													
E AT AI GEND -	JBPLATE) E AT ADVANCE SIGN LOCATION GEND - BLACK .CKGROUND - FLUORESCENT					- N/A OUND - FLI GREEN	JORESCENT			LEGEND - BACKGR(		JORESCENT	YELLOW	
REA Q. FT)	size (Inches)	CONN. D.O.T. #	POSTS	ALUM. THK.	AREA (SQ. FT)	size (inches)	CONN. D.O.T. #	POSTS	ALUM. THK.	AREA (SQ. FT)	size (inches)	CONN. D.O.T. #	POSTS	ALUM. THK.
2.00	24X12	41-6126		.080						1.50	4X48	41-5001	1	.080
3.75 30X18 41-6137 .080					2.00	4X72	41-5010	1	.080	2.00	4X72	41-5006	1	.080

1. FOR SPECIFIC SIGN DESIGN CONTACT CONN. D.O.T., DIVISION OF TRAFFIC ENGINEERING.

FOR BOLT HOLE PATTERN REFER TO FHWA PUBLICATION "STANDARD HIGHWAY SIGNS". SIGNS OF DIFFERENT DIMENSIONS TO BE ERECTED ON THE SAME POSTS, OR SPAN/MAST ARM

MOUNTED, MAY REQUIRE SPECIAL BOLT HOLE PATTERNS.

2. POSTS - SEE STANDARD SHEET TR-1208\_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."

4. SIGNS SHALL BE FABRICATED OF ONE CONTINUOUS PIECE OF SHEET ALUMINUM.

SPLICING OF SHEET ALUMINUM WILL NOT BE ACCEPTED.

5. FLUORESCENT YELLOW RETROREFLECTIVE STRIPS SHALL BE INSTALLED ON ALL SIGN POSTS

FLUORESCENT YELLOW GREEN RETROREFLECTIVE STRIPS SHALL BE INSTALLED ON ALL SIGN

POSTS FOR \$1-1 AND W11-2 SIGNS LOCATED AT CROSSINGS. RETROREFLECTIVE STRIPS SHOULD

NOT BE INSTALLED ON ADVANCE CROSSING WARNING SIGNS.

SEE STANDARD SHEET TR-1208\_01 "SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS" FOR RETROREFLECTIVE STRIP DETAILS AND INSTALLATION.

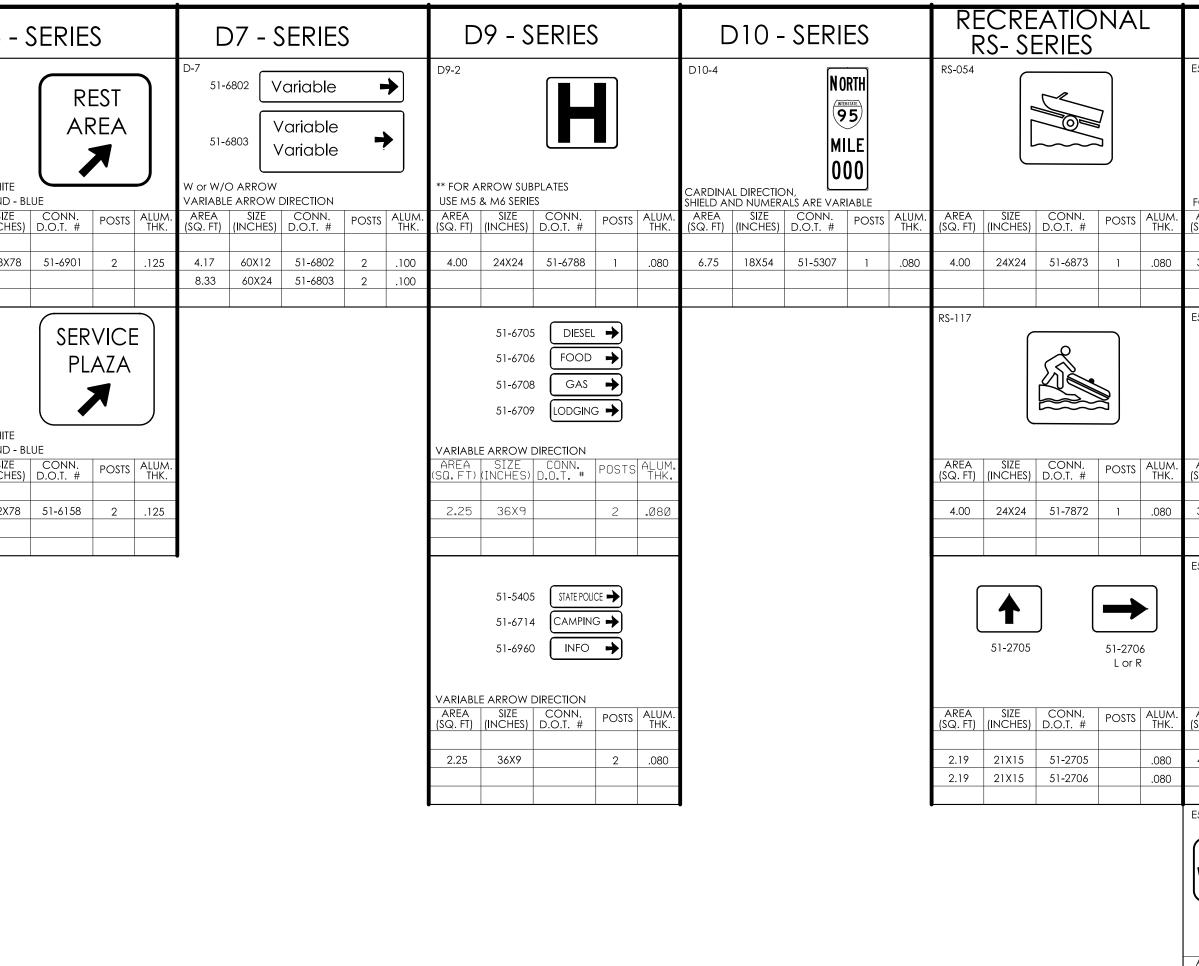
BACKGROUND - YELLOW - EXCEPT AS NOTED.

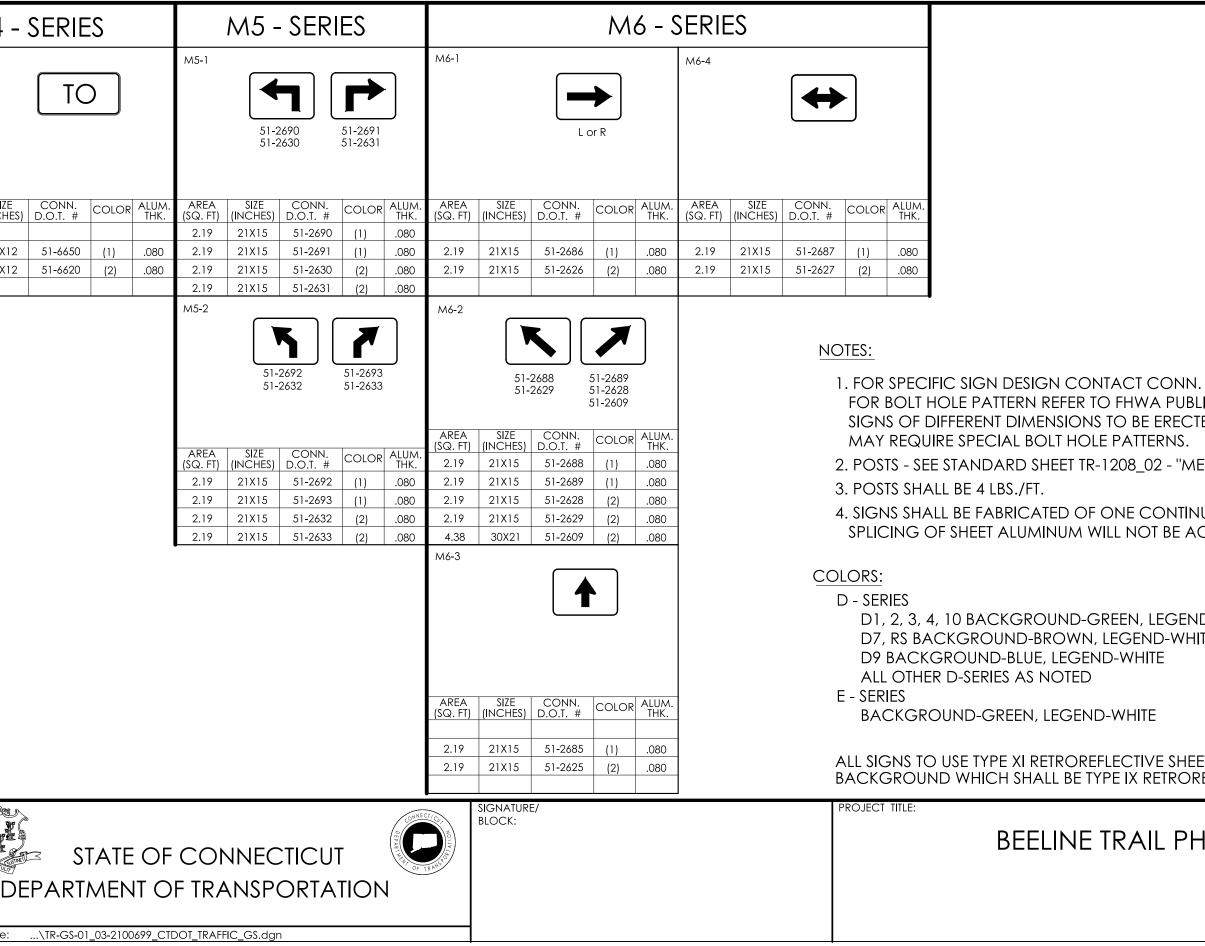
ALL SIGNS TO USE TYPE XI RETROREFLECTIVE SHEETING.



	IOWN:		PROJECT NO.	
HASEI			0088-0198	
	NEW BRITAIN			
	DRAWING TITLE:		TR-GS_02	
	SIGN FACE SHEET ALUMINUM	(Y)	SHEET NO.	
	S&W SERIES TYPICAL SIGN DETAILS			

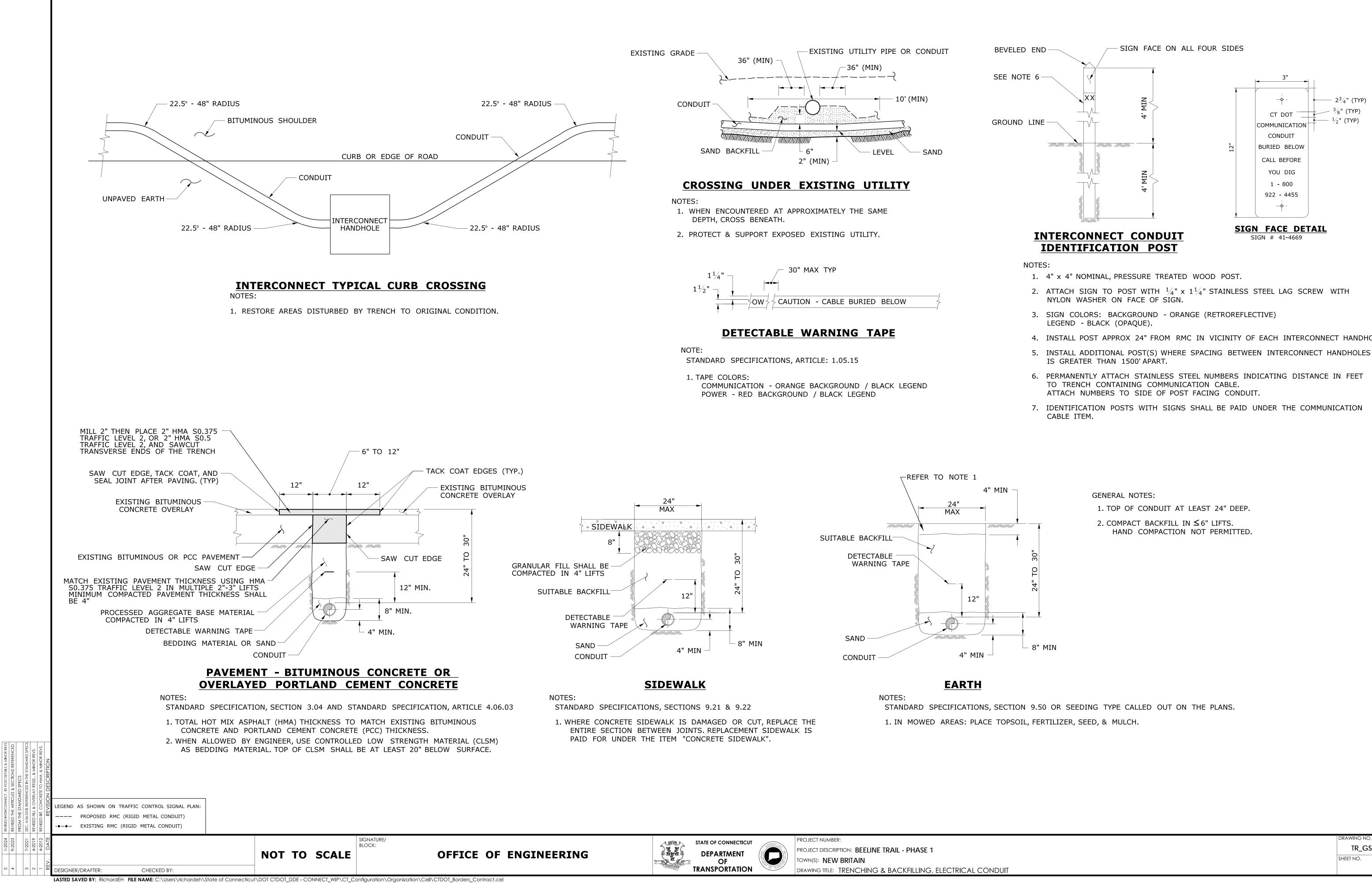
D1 - SERIES	D3 - SERIES	1		D4 -	- SERI	ES			D5
D1-1 51-5202 Variable D1-2 51-5203 Variable Variable	D3-1 Variable Road Name	D4-2	PARK RID	-	D4	E	XIT OOO 1 ARK - RIDE	ŀ	D5-2b LEGEND - WHI
VARIABLE LEGEND & ARROW DIRECTIONAREA (SQ. FT)SIZE (INCHES)CONN. D.O.T. #POSTSALUM. THK.5.0060X1251-52022.100	AREA (SQ. FT)         SIZE (INCHES)         CONN. D.O.T. #         POSTS         ALU. THI           6.00         48X18         51-2004         2         .100           7.50         60X18         51-2001         2         .100	M. AREA (SQ. FT)	LE ARROW DIRECTION SIZE CONI (INCHES) D.O.T. 24X30 51-60	H. POSTS	ALUM. A THK. (SC	RIABLE EXIT N REA SIZE Q. FT) (INCHE 8.50 84X6	CONN. S) D.O.T. #	POSTS ALUM. THK. 3 .125	AREA (SQ. FT) (INC) 42.25 78>
10.00 60X24 51-5203 2 .100	9.00         72X18         51-2002         2         .123           10.50         84X18         51-2003         2         .123		30X36 51-60		.080		хіт 000		
			PARK RID				ARK - RIDE		legend - Whit
		VARIAB AREA (SQ. FT)	LE ARROW DIRECTIC SIZE CONI (INCHES) D.O.T.		ALUM. A	RIABLE EXIT N REA SIZE Q. FT) (INCHE		POSTS ALUM. THK.	BACKGROUNE AREA SIZ (SQ. FT) (INCH
		5.00 7.50	24X30 51-60 30X36 51-60		.080	8.50 84X6	6 51-2095	3 .125	39.00 72X
		D4-2	PARK RIDI	-	D4	E			
						ARIABLE EXIT N			
		AREA (SQ. FT) 5.00 7.50	SIZE (INCHES)         CONI D.O.T.           24X30         51-60           30X36         51-60	44 1		REA SIZE Q. FT) (INCHE 8.50 84X6		POSTS ALUM. THK. 3 .125	
		I			D4		хіт ООО		
						F	ARK - RIDE		
					A (SC	ARIABLE EXIT N REA SIZE Q. FT) (INCHE 8.50 84X6	CONN. S) D.O.T. #	POSTS ALUM. THK. 3 .125	
M1 - SERIES	M2 - SERIES	M3-1		M3 -	- SERI				M4-5
51-6662 51-6662 51-6663 51-6665 51-665 51-6555 51-6555 51-6555 51-6555 51000000	JCT			ORTH			W es	ST	
BACKGROUND - RED & BLUE           AREA (SQ. FT)         SIZE (INCHES)         CONN. D.O.T. #         POSTS         ALUM. THK.           3.20         24X24         51-6662         1         .080	AREA SIZE CONN. COLOR ALU. (SQ. FT) (INCHES) D.O.T. # COLOR THE	2.00	24X12 51-66	# COLOK 51 (1)	.080 2	REA SIZE Q. FT) (INCHE 2.00 24X12	ES) D.O.T. # 2 51-6654	COLOR ALUM. THK. (1) .080	AREA SIZ (SQ. FT) (INCH
3.99         30X24         51-6663         1         .080           7.20         36X36         51-6666         2         .080           8.99         45X36         51-6667         2         .100           M1-4	2.19         21X15         51-6640         (1)         .080           2.19         21X15         51-6610         (2)         .080		24X12         51-66           36X18         51-66           36X18         51-66	55 (1)	.080	2.00         24X12           4.50         36X18           4.50         36X18	3 51-6658	(2)     .080       (1)     .080       (2)     .080	2.00 24X 2.00 24X
51-6615 51-6635 VARIABLE: VARIABLE:		1013-2	E	AST					
1 or 2 DIGITS         3 DIGITS           LEGEND - BLACK         BACKGROUND - WHITE           AREA (SQ. FT)         SIZE (INCHES)         CONN. D.O.T. #         POSTS         ALUM. THK.           4.00         24X24         51-6615         1         .080           5.00         30X24         51-6635         2         .080           9.00         36X36         51-6635         2         .080		AREA (SQ. FT) 2.00 2.00 4.50	24X12         51-66           24X12         51-66           36X18         51-66	#         COLOR           52         (1)           12         (2)           56         (1)	.080 .080 .080				
11.25     45X36     51-6645     2     .100       M1-5     Image: Comparison of the second sec		4.50 M3-3	<u>36X18</u> <u>51-66</u>	26 (2) OUTH	.080				
51-6616         51-6647           51-6636         51-6646           VARIABLE:         VARIABLE:           1 or 2 DIGITS         3 DIGITS           LEGEND - BLACK         BACKGROUND - WHITE									
AREA (SQ. FT)         SIZE (INCHES)         CONN. D.O.T. #         POSTS         ALUM. THK.           4.00         24X24         51-6616         1         .080           5.00         30X24         51-6647         1         .080           9.00         36X36         51-6636         2         .080           11.25         45X36         51-6646         2         .100	1	AREA (SQ. FT) 2.00 2.00 4.50 4.50	SIZE (INCHES)         CONI D.O.T.           24X12         51-66           24X12         51-66           36X18         51-66           36X18         51-66	#         COLOR           53         (1)           13         (2)           57         (1)	ALUM. THK. .080 .080 .080 .080				
4 10-2021 REVISED SHEETING TYP 3 12-2018 REVISED D2, D3, D9, A		-GS_04 -GS_03	THE INFORMATIC QUANTITIES OF W SHEETS IS BASED INVESTIGATIONS IN NO WAY WAR THE CONDITIONS OF WORK WHICH	DN LIMITED BY THE STATE RANTED TO II OF ACTUAL	and IS NDICATE QUANTITIES		A. MERN A. MERN CKED BY: B. SCH		
2 7-2018 REVISED BROWN COLO		-GS_03		I WILL BE REG	QUIKED.				1 1





E5 - SERIES	I - SERIES INCID MANAG	ent Ement				
EXIT	(Variable)					
	River .0					
		.0				
OR USE AT "NO NUMBERED" EXITS AREA SIZE CONN. Q. FT) (INCHES) D.O.T. # POSTS A	VARIABLE: RIVER, BROOK, CREEK     CARDINAL DIRECTION VARIAU       LUM.     AREA     SIZE     CONN.     POSTS     ALUM.     AREA     SIZE     CON       HK.     (SQ. FT)     (INCHES)     D.O.T.     #     POSTS     ALUM.     AREA     SIZE     CON       1.50     18X12     51-2009     1     .080     3.00     12X36     51-55	N. POSTS ALUM. . # POSTS THK.				
30.00 72X60 51-6150 2 .	1.50         10x12         51-2007         1         1.60         51.00         12x36         51-5           125         4.50         36X18         51-2007         2         .080         4.00         12x48         51-5           12.00         48x36         51-2051         2         .100         5.00         12x60         51-5	104 1 .080				
5-1a	(Town Name)					
EXIT EXIT	INCORPORATED (DATE) OR SETTLED					
51-6125 51-6124						
AREA SIZE CONN. POSTS A	VARIABLE: TOWN / CITY UM. AREA SIZE CONN. POSTS ALUM. AREA SIZE CON UM. (SO ET) (INCLES) DOT # POSTS ALUM. (SO ET) (INCLES) DOT	IN. POSTS ALUM.				
	'HK.       (SQ. FT)       (INCHES)       D.O.T. #       ICOSIS       THK.       (SQ. FT)       (INCHES)       D.O.T.         125       7.50       40X27       51-2020       2       .080       3.00       18X24       51-50					
5-1a	I I I I I I I_					
EXIT EXIT						
CO B 00 B	51-6505 Variak					
51-6127 51-6126	TO BE SUBMOUNTED W/ 51 LEGEND - WHITE BACKGROUND - BLUE	-5943				
REA SIZE CONN. POSTS A Q. FT) (INCHES) D.O.T. #	LUM. AREA SIZE CONN. POSTS ALUM. AREA SIZE CON HK. (SQ.FT) (INCHES) D.O.T. # POSTS THK. (SQ.FT) (INCHES) D.O.T.	IN. POSTS ALUM. . # POSTS THK.				
45.00 108X60 2 .	125         4.00         24X24         51-1448         1         .080         0.75         18X6         51-6           6.25         30X30         51-1445         1         .080         1.50         18X12         51-6					
5-1a						
51-6129 51-6128						
area size conn. posts a q. ft) (inches) d.o.t. #	BACKGROUND - WHITE LUM. AREA SIZE CONN. POSTS ALUM. THK. (SQ. FT) (INCHES) D.O.T. # POSTS THK.					
57.50 138X60 2 .	125         7.50         36X30         51-5937         2         .080					
. D.O.T., DIVISION OF TRAFI	IC ENGINFERING.					
ICATION "STANDARD HIGH						
etal sign posts and sign	MOUNTING DETAILS."					
IUOUS PIECE OF SHEET ALUMINUM.						
CCEPTED.						
	ERIES GACKGROUND-GREEN, LEGEND-WHITE					
ITE (	EXCEPT AS NOTED) • M6 SERIES					
(	<ol> <li>BACKGROUND-BLUE, LEGEND-WHITE</li> <li>BACKGROUND-WHITE, LEGEND-BLACK</li> </ol>					
ETING WITH THE EXCEPTION REFLECTIVE SHEETING.	OF SIDE MOUNTED SIGNS WITH WHITE					
HASE I		PROJECT NO. 0088-0198				
	DRAWING TITLE:	DRAWING NO. TR-GS_03				
	SIGN FACE SHEET ALUMINUM	SHEET NO.				

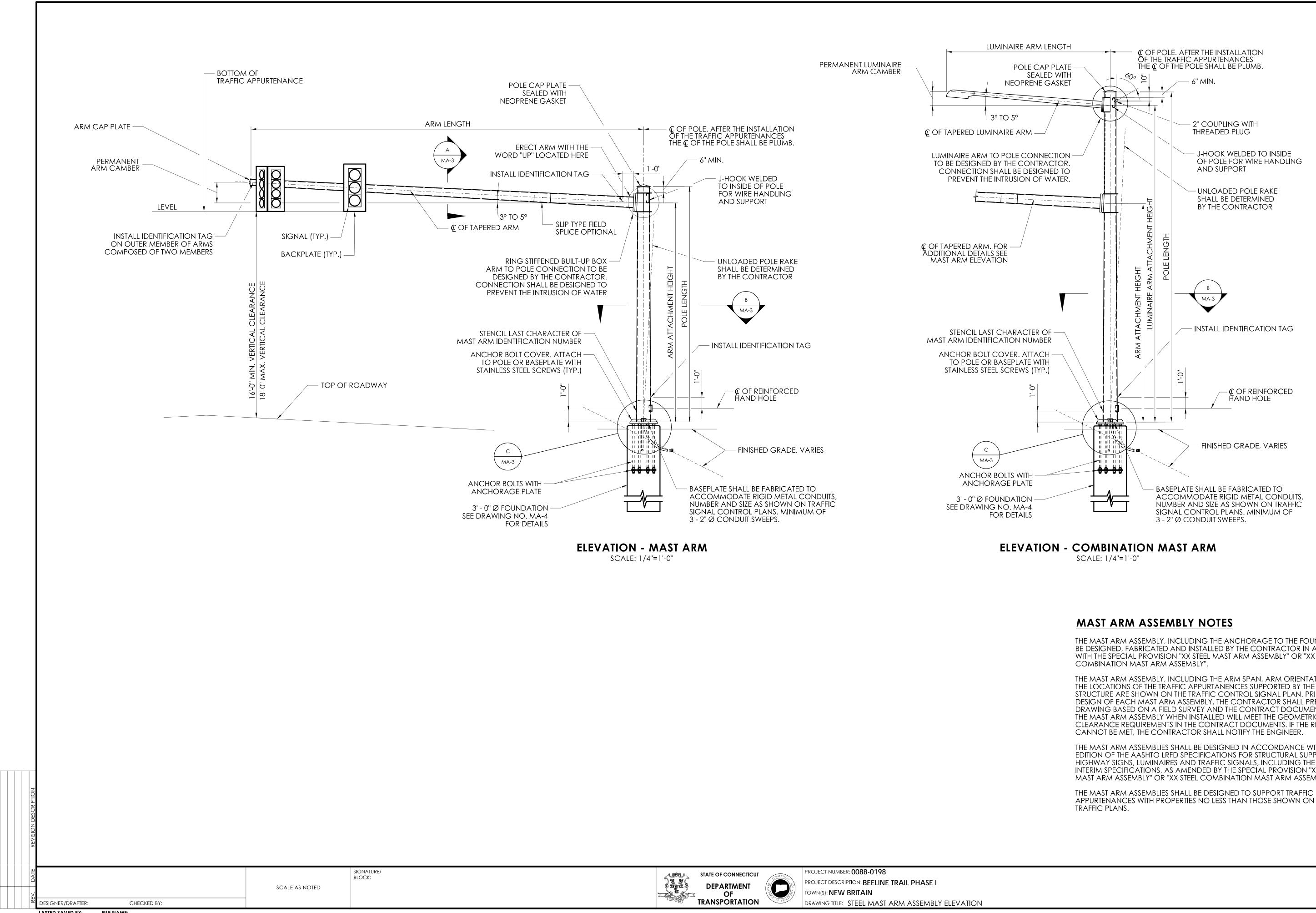
D,RS,E,I,&M SERIES TYPICAL SIGN DETAILS



**PLOTTED DATE:** 1/23/2024

- 4. INSTALL POST APPROX 24" FROM RMC IN VICINITY OF EACH INTERCONNECT HANDHOLE.

TR\_GS-04



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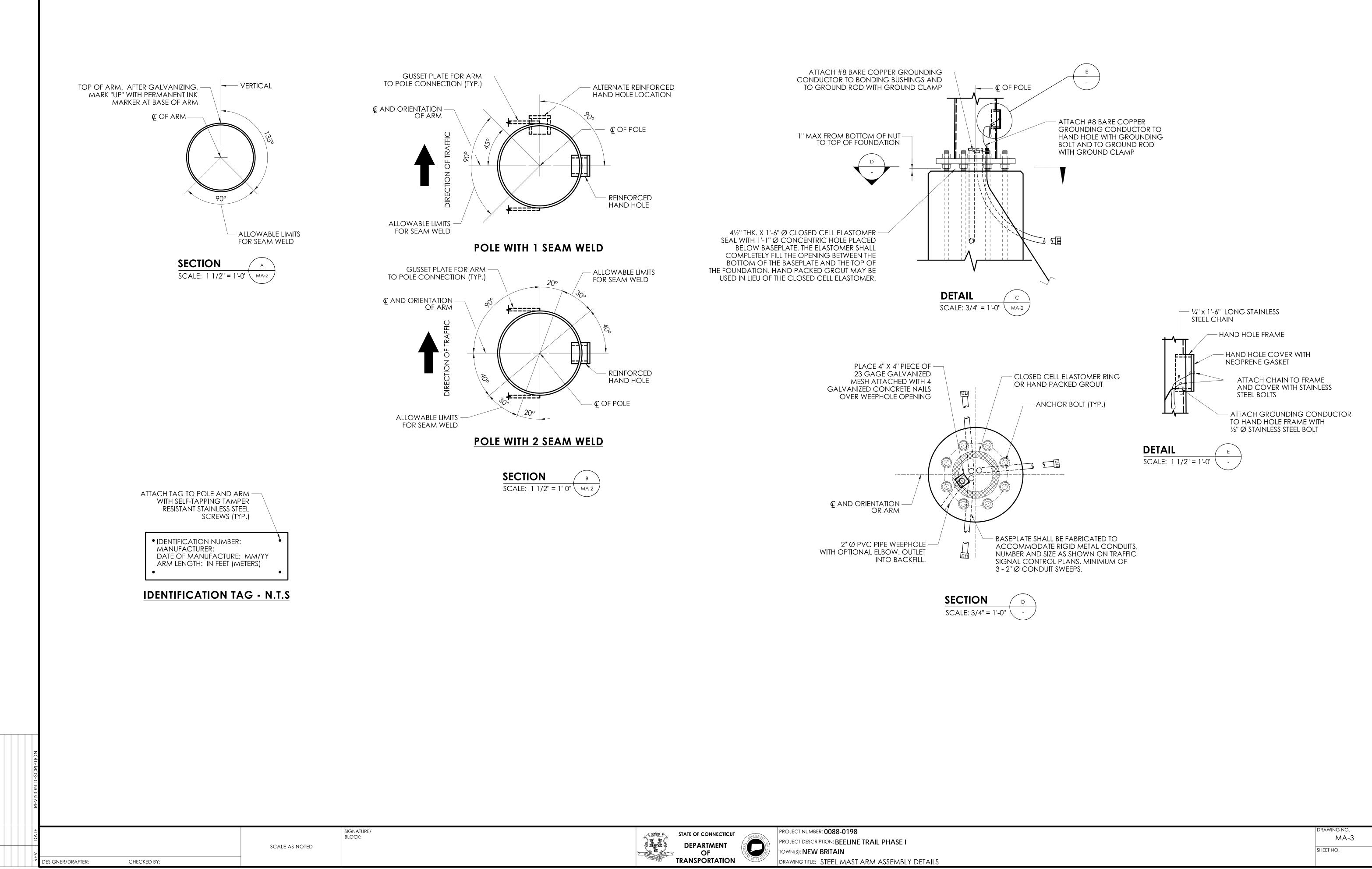
**PLOTTED DATE:** 6/22/2023

THE MAST ARM ASSEMBLY, INCLUDING THE ANCHORAGE TO THE FOUNDATION, SHALL BE DESIGNED, FABRICATED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIAL PROVISION "XX STEEL MAST ARM ASSEMBLY" OR "XX STEEL

THE MAST ARM ASSEMBLY, INCLUDING THE ARM SPAN, ARM ORIENTATION, AND THE LOCATIONS OF THE TRAFFIC APPURTANENCES SUPPORTED BY THE STRUCTURE ARE SHOWN ON THE TRAFFIC CONTROL SIGNAL PLAN. PRIOR TO DESIGN OF EACH MAST ARM ASSEMBLY, THE CONTRACTOR SHALL PREPARE A LAYOUT DRAWING BASED ON A FIELD SURVEY AND THE CONTRACT DOCUMENTS TO VERIFY THE MAST ARM ASSEMBLY WHEN INSTALLED WILL MEET THE GEOMETRIC AND CLEARANCE REQUIREMENTS IN THE CONTRACT DOCUMENTS. IF THE REQUIREMENTS

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

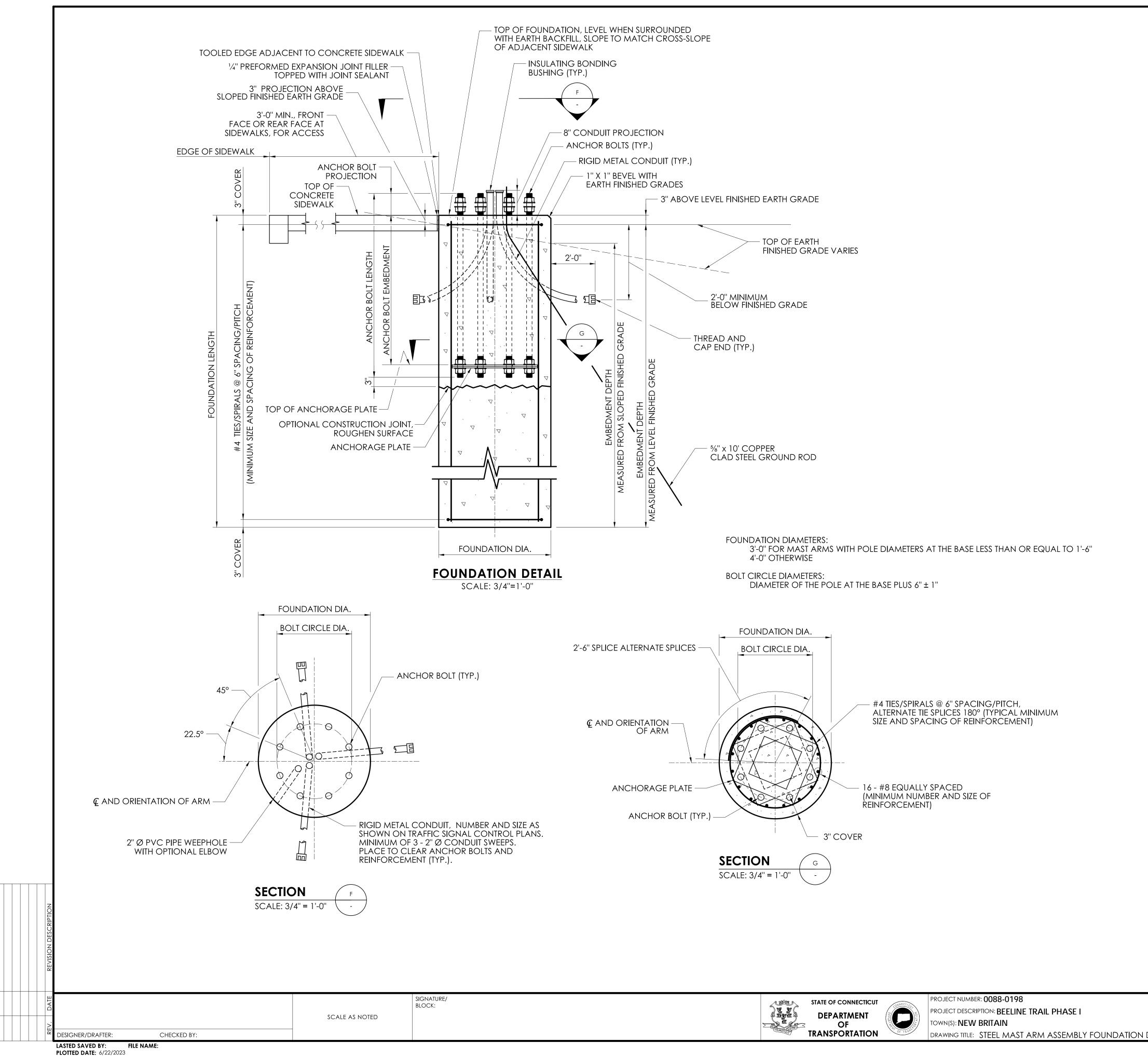
APPURTENANCES WITH PROPERTIES NO LESS THAN THOSE SHOWN ON THE



LASTED SAVED BY: FILE NAME:

**PLOTTED DATE:** 6/22/2023

DRAWING NO.
MA-
SHEET NO.



THE DRILLED SHAFT FOUNDATION FOR THE MAST ARM ASSEMBLY SHALL BE DESIGNED, FABRICATED, AND CONSTRUCTED BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIAL PROVISION "TRAFFIC CONTROL FOUNDATION - MAST ARM".

THE FOUNDATION SHALL BE DESIGNED FOR THE SOILS AND ROCK PROPERTIES BASED ON THE SUBSURFACE CONDITIONS (CHARACTER OF THE SOIL AND ROCK, PRESENCE OF GROUND WATER, ETC.) IN THE LOCATION OF, ADJACENT TO AND BELOW THE DRILLED SHAFT FOUNDATION EXCAVATION. THE NEED AND EXTENT OF ALL SUBSURFACE EXPLORATIONS AND INVESTIGATIONS SHALL BE DETERMINED BY THE CONTRACTOR.

THE DESIGN OF THE FOUNDATION SHALL BE COORDINATED WITH THE MAST ARM ASSEMBLY AND THE MAST ARM ANCHORAGE TO ENSURE THAT THE FOUNDATION IS ADEQUATE FOR THE MAST ARM REACTIONS AND TO AVOID CONFLICTS BETWEEN THE EMBEDDED MAST ARM ANCHORAGE AND THE FOUNDATION REINFORCEMENT.

THE CONCRETE FOR THE FOUNDATION SHALL CONFORM TO CLASS PCC04460. THE COMPRESSIVE STRENGTH, f'c, USED IN DESIGN OF THE FOUNDATION SHALL BE 4,000 PSI. THE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED FOUNDATION SHALL CONFORM TO THE REQUIREMENTS OF 6.01 - CONCRETE FOR STRUCTURES AND M.03 - PORTLAND AND HYDRAULIC CEMENT CONCRETE.

THE REINFORCEMENT SHALL BE UNCOATED AND CONFORM TO ASTM A615, GRADE 60. THE REINFORCEMENT SHALL BE ASSEMBLED WITH WIRE TIES. WELDING TO ASSEMBLE REINFORCEMENT IS NOT PERMITTED. ALL REINFORCEMENT SHALL HAVE 3" COVER, UNLESS OTHERWISE NOTED.

THE COST OF THE FOUNDATION, INCLUDING THE EXCAVATION, CONCRETE, REINFORCEMENT, CASING AND WEEPHOLES, INCLUDING THE DESIGN AND FABRICATION, TO BE INCLUDED FOR PAYMENT UNDER THE ITEM "TRAFFIC CONTROL FOUNDATION - MAST ARM".

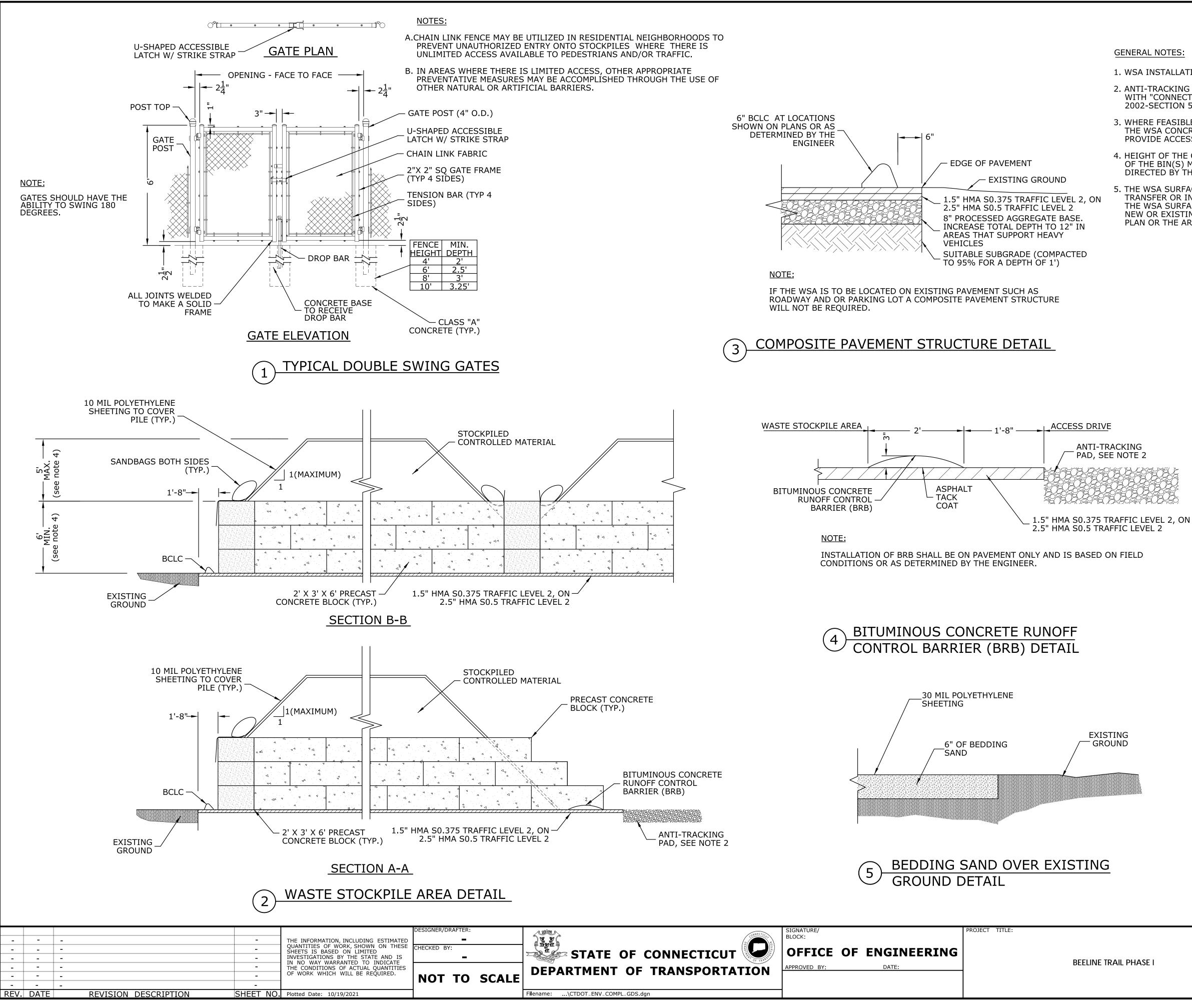
WHERE AN EXISTING CONCRETE SIDEWALK ABUTTING A FOUNDATION IS DAMAGED OR CUT DURING INSTALLATION, REPLACE THE ENTIRE SECTION. ALL SIDEWALK REPLACED DUE TO FOUNDATION INSTALLATION SHALL BE PAID FOR UNDER THE ITEM "CONCRETE SIDEWALK".

THE COST OF PREFORMED EXPANSION JOINT FILLER AND JOINT SEALANT SHALL BE INCLUDED FOR PAYMENT UNDER THE ITEM "CONCRETE SIDEWALK".

THE CONCRETE SHALL BE PLACED IN THE EXCAVATION AGAINST UNDISTURBED EARTH.

THE MAST ARM SHALL NOT BE ERECTED ON THE FOUNDATION UNTIL THE CONCRETE IN THE SHAFT HAS ATTAINED A COMPRESSIVE STRENGTH, I'C, GREATER THAN OR EQUAL TO 4000 PSI.

DRAWING NO.
MA-4
SHEET NO.



1. WSA INSTALLATION AND ALL REQUIRED MATERIALS ARE AS INDICATED ON THE WSA PLAN.

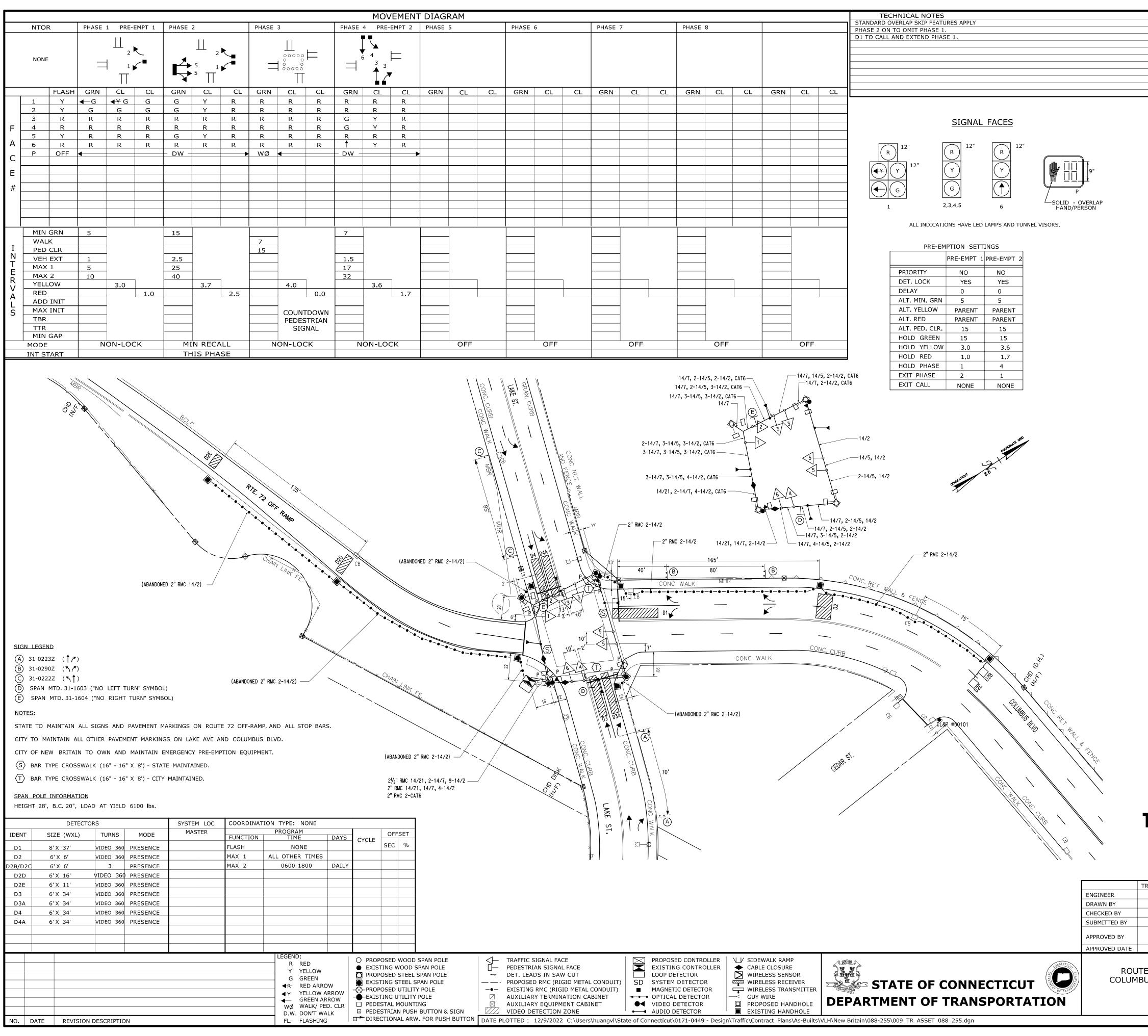
2. ANTI-TRACKING PAD SHALL BE INSTALLED AS SHOWN ON THE WSA PLAN AND IN ACCORDANCE WITH "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, 2002-SECTION 5-12."

3. WHERE FEASIBLE, A MINIMUM DISTANCE OF 5' IMMEDIATELY OUTSIDE THE PERIMETER OF THE WSA CONCRETE BLOCK WALLS SHALL REMAIN CLEAR AND FREE OF ANY OBJECT TO PROVIDE ACCESS FOR MAINTENANCE.

4. HEIGHT OF THE CONCRETE BLOCKS, STOCKPILED CONTROLLED MATERIAL AND CONFIGURATION OF THE BIN(S) MAY VARY BASED ON THE SIZE AS INDICATED ON THE WSA PLAN OR AS DIRECTED BY THE ENGINEER.

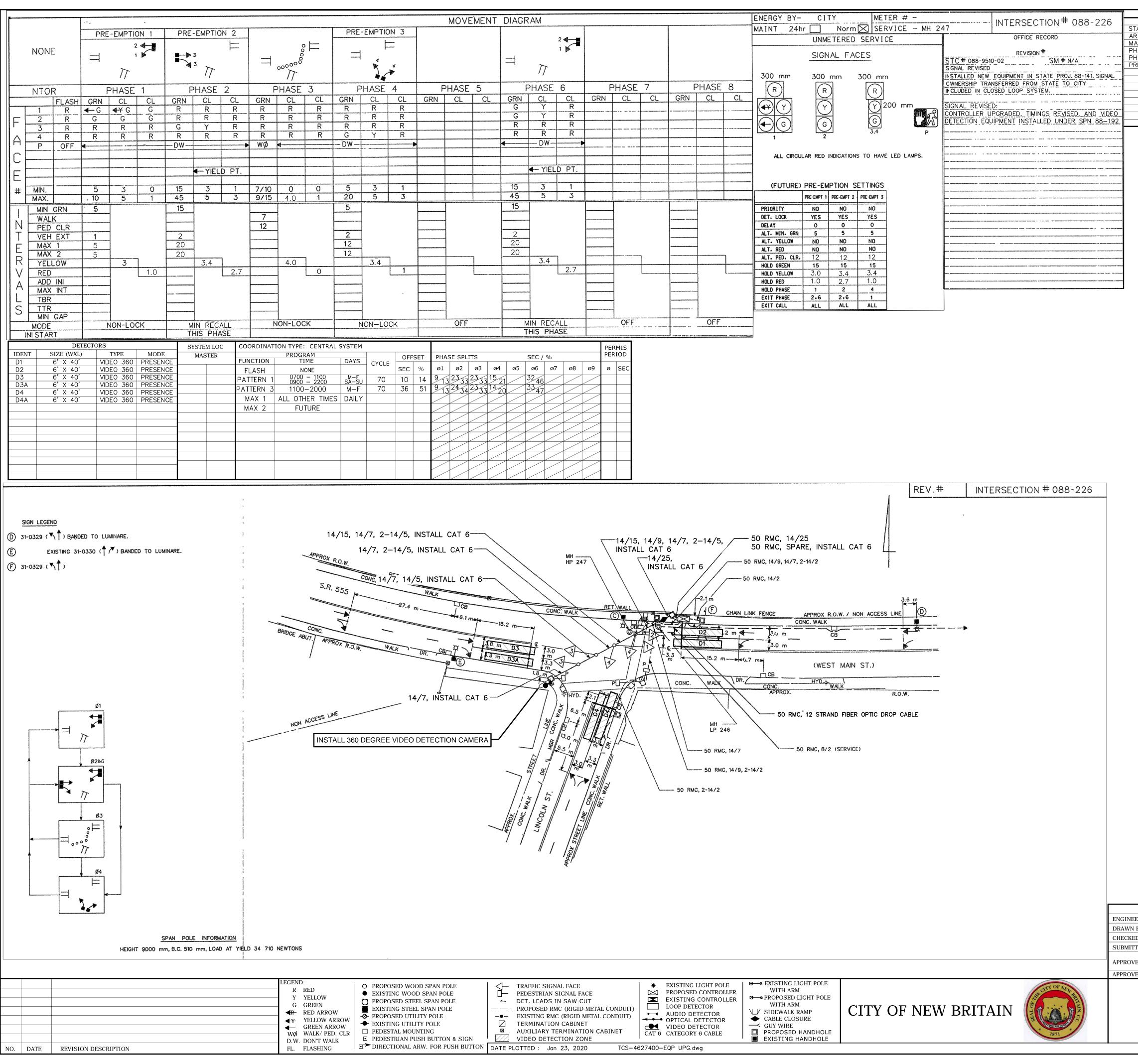
5. THE WSA SURFACE SHALL BE SUFFICIENTLY IMPERVIOUS TO PREVENT OR MINIMIZE THE TRANSFER OR INFILTRATION OF CONTAMINANTS FROM THE STOCKPILES TO THE GROUND. THE WSA SURFACE WILL VARY BASED ON PROJECT SPECIFICS AND MAY BE CONSTRUCTED ON NEW OR EXISTING PAVEMENT, BEDDING SAND, OR OTHER MATERIAL AS SHOWN ON THE WSA PLAN OR THE AREAS OF ENVIRONMENTAL CONCERN PLAN(S).

JECT NO 88-198 **NEW BRITAIN** DRAWING NO. EC-01 DRAWING TITLE WASTE STOCKPILE AREA HEET NO. (WSA) DETAILS



		FERENCE
Tighe&Bond	ARANCE INTERVALS SIGNED BY: HE & BOND SINEER'S SEAL & NATURE APPLY TO ARANCE INTERVALS	
RAFFIC DATE ELECTRICAL DATE	REV # 9 INTE	ERSECTION #088-255
	ENERGY BY - CITY MAINT LEVEL 5	ADDRESS # SERVICE POLE - UNDERGROUND UNMETERED SERVICE
E 72 OFF RAMP AT US BLVD AND LAKE ST	WN: NEW BRITA AWING TITLE: TRAFFIC CONT	IN DRAWING NO. TROL SHEET NO.
SCALE 1" = 40'	SIGNAL PLA	

	OFFICE RECORD			OF TRAFFIC ENGI
REV # 8	TIR # N/A	SM # 101663	SIGNAL REVISED: 6/17/2019	
REVISED TIMI	NGS UNDER STATE PRO	JECT NO. 171-398.		l ®
				] V öll i
REV # 9	TIR # N/A	SM # N/A	SIGNAL REVISED: 08/31/2022	
TRAFFIC & ELE	CT. DES: TRAFFIC SIG	NALS UNIT		
REVISED SIGN	AL FACE 6 TO HAVE GR	EEN ARROW AND REVISED	PEDESTRIAN SIGNAL INDICATIONS UI	NDER
STATE PROJEC	T NO. 0171-0449.			



TECHNICAL NOTES
STANDARD OVERLAP SKIP FEATURES APPLY
ARTERY PHASE DETECTORS TO BE NON-ACTUATING DURING COORDINATION.
MANUAL AND INTERVAL ADVANCE TO BE DISCONNECTED DURING PHASE 3 PEDESTRIAN CHANGE INTERVAL.
PHASE SPLITS SHOWN REPRESENT PRELIMINARY COORDINATION DATA.
PHASE 2 AND 6 ON TO OMIT PHASE 1.
PRE-EMPTION TO BE INOPERATIVE DURING FLASHING OPERATION.

## **CONSTRUCTION NOTES :**

ALL TRAFFIC SIGNAL EQUIPMENT IS EXISTING, EXCEPT AS NOTED BELOW:

- INSTALL NEW CONTROLLER UNIT IN EXISTING CABINET AND IMPLEMENT SIGNAL PHASING AND TIMING SETTINGS SHOWN ON THE PLAN. REFER TO SPECIAL PROVISION FOR ITEM #1108165A REPLACE CONTROLLER IN EXISTING CABINET.
- INSTALL NEW ETHERNET SWITCH IN EXISTING CABINET. REFER TO SPECIAL PROVISION FOR ITEM #1108660A – ETHERNET SWITCH.
- INSTALL NEW VIDEO DETECTION PROCESSOR IN EXISTING CABINET AND NEW 360 DEGREE VIDEO
  DETECTION CAMERA AT LOCATION TO BE DETERMINED BY MANUFACTURER REPRESENTATIVE AS APPROVED BY THE ENGINEER. INSTALL CAT 6 CAMERA CABLE CONTINUOUSLY BETWEEN THE CAMERA AND EXISTING CONTROLLER CABINET. SETUP VIDEO DETECTION ZONES D1, D2, D3, D3A, D4, D4A AS SHOWN ON THE PLAN. VIDEO DETECTION ZONES ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE VIDEO DETECTION MANUFACTURER OR DESIGNATED REPRESENTATIVE.

ALL OTHER INFORMATION SHOWN ON THE PLAN IS BASED ON RECORD PLANS PROVIDED BY THE CITY AND IS INCLUDED FOR INFORMATION ONLY.

	FOF		EFERE ONLY	INCE			
						CITY	SIGNAL
ER	TRAFFIC	DATE	ELECTRICAL DATE			INTERSEC	TION # 088-226
BY			Great Meadow Road, Suite 200 ersfield, Connecticut 06109				
d by Fed by		TO Tel:	860 807-4300 Fax: 860 372-4570	ENERGY E	BY - CITY		METER # - N/A
ED BY				MAINT LEV	EL - CITY		SERVICE - MH 247
ED DATE							UNMETERED SERVICE
				TOWN			DDO JECT NO

WEST MAIN STREET (S.R. 555) AT LINCOLN STREET

### NEW BRITAIN DRAWING NO. TCS-08 DRAWING TITLE: TRAFFIC CONTROL SHEET NO. 21 of 52 SIGNAL PLAN SCALE 1:500 METRIC

ROJECT NO.

0088-0192

## \*ONLY STANDARD SHEETS MARKED WITH AN "

	*ONLY STANDARD SHEETS MARKED WITH AN "			**REVISED OR ADDED				
<b>\</b> *	SHEET NO.	TITLE	APPROVAL DATE**	<b>*</b>	SHEET NO.	TITLE	APPROV DATE**	
	HW-211_01	ANTI-TRACKING PAD	11-09-22		HW-821_01a	TRANSITION - 45" F-SHAPE TO 45" VERTICAL SHAPE SHEET 1	11-08-22	
	HW-286_01	DRAINAGE TRENCH EXCAVATION	11-09-22		HW-821_01b	TRANSITION - 45" F-SHAPE TO 45" VERTICAL SHAPE SHEET 2	11-08-22	
	HW-505 01a	STRAIGHT ENDWALLS	02-28-24		HW-821_01c	TRANSITION - 45" F-SHAPE TO 45" VERTICAL SHAPE SHEET 3	11-08-22	
	HW-505 01b	STEEL REINFORCING FOR STRAIGHT ENDWALLS (2" DIFF BASE TO FLOW LINE)	01-05-24		HW-821_02a	45" F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 1	11-08-22	
	HW-505 01c	STEEL REINFORCING FOR STRAIGHT ENDWALLS (STANDARD RIPRAP APPLICATION)	01-05-24		HW-821_02b	45" F-SHAPE PRECAST CONCRETE BARRIER CURB SHEET 2	11-08-22	
	HW-505_02	TYPE "D-G" & "L" ENDWALLS	01-05-24		HW-821_03a	TRANSITION - 32" JERSEY SHAPE TO 45" VERTICAL SHAPE SHEET 1	11-08-22	
	HW-586_01	CATCH BASIN AND DROP INLET TYPES "C" AND "C-L" STRUCTURES	01-05-24		HW-821_03b	TRANSITION - 32" JERSEY SHAPE TO 45" VERTICAL SHAPE SHEET 2	11-08-22	
	HW-586_02	CATCH BASIN ( TYPES "C" AND "C-L" ) FOR DOUBLE GRATE TYPE I STRUCTURES	01-05-24		HW-821_03c	TRANSITION - 32" JERSEY SHAPE TO 45" VERTICAL SHAPE SHEET 3	11-08-22	
	HW-586_03	CATCH BASIN (TYPES "C" AND "C-L" ) FOR DOUBLE GRATE TYPE II STRUCTURES	01-05-24		HW-821_03d	TRANSITION - 32" JERSEY SHAPE TO 45" VERTICAL SHAPE SHEET 4	11-08-22	
	HW-586_04	PRECAST CATCH BASIN AND ROUND STRUCTURE	11-08-22		HW-821_03e	TRANSITION - 32" JERSEY SHAPE TO 45" F-SHAPE	11-08-22	
	HW-586_05	PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE I	11-08-22		HW-821_04a	MERRITT PARKWAY NARROW MEDIAN BARRIER	11-08-22	
	HW-586_06	PRECAST CATCH BASIN TYPES FOR DOUBLE GRATE TYPE II	11-08-22		HW-821_04b	MERRITT PARKWAY - 2' WIDE MEDIAN BARRIER AND ROADSIDE BARRIER	11-08-22	
	HW-586 07a	CATCH BASIN TYPE "C" AND "C-L" TOPS	01-05-24		HW-821_05a	TRANSITION - 45" F-SHAPE TO 54" VERTICAL SHAPE SHEET 1	11-08-22	
-	HW-586 07b	CATCH BASIN TYPE "C" AND "C-L" DOUBLE GRATE TYPE I TOPS	11-09-22		HW-821_05b	TRANSITION - 45" F-SHAPE TO 54" VERTICAL SHAPE SHEET 2	11-08-22	
	HW-586 07c	CATCH BASIN TYPE "C" AND "C-L" DOUBLE GRATE TYPE II TOPS	11-08-22		HW-821_06	54" VERTICAL SHAPE BARRIER	11-08-22	
	HW-586 07d	CATCH BASIN TYPE "C-G" AND "C-M" BARRIER CURB TOPS	11-09-22		HW-821_07	MISCELLANOUS DETAILS FOR BARRIER TRANSITIONS	11-08-22	
	HW-586_08	CATCH BASIN FRAMES AND GRATES	11-09-22		HW-821_08a	F-SHAPE CONC. BARRIER CURB (21"x45") TRANSITION FOR THRIE-BEAM	11-08-22	
	HW-586_09	CATCH BASIN LOCK DOWN TOPS	11-09-22		HW-821_08b	F-SHAPE CONC. BARRIER CURB (21"x45") TRANSITION FOR THRIE-BEAM - REINF.	11-08-22	
	HW-586_10a	MANHOLE FRAME AND COVER	01-05-24		HW-821_09a	SINGLE SLOPE CONC. BARRIER CURB (20''x42'') TRANS. FOR THRIE-BEAM	11-08-22	
	HW-586_10b	MANHOLE FRAME AND GRATE	01-05-24		HW-821_09b	SINGLE SLOPE CONC. BARRIER CURB (20''x42'') TRANS. FOR THRIE-BEAM - REINF.	11-08-22	
	HW-586_10c	REINFORCED PRECAST CONCRETE MANHOLE	11-08-22		HW-821_10a	VERTICAL FACE CONC. (21"x54") TRANSITION FOR THRIE-BEAM	11-08-22	
	HW-586_10d	MANHOLE NON-PRECAST CONCRETE UNIT	11-08-22		HW-821 10b	VERTICAL FACE CONC. (21"x54") TRANSITION FOR THRIE-BEAM REINF.	11-08-22	
	HW-686_01a	CONCRETE PIPE CONNECTION SHEET 1	11-08-22		HW-821_11a	42" SINGLE SLOPE PRECAST CONCRETE BARRIER CURB -SHEET 1	01-05-24	
	HW-686_01b	CONCRETE PIPE CONNECTION SHEET 2	11-08-22		HW-821_11b	42" SINGLE SLOPE PRECAST CONCRETE BARRIER CURB -SHEET 2	01-05-24	
	HW-686_02a	DRAINANGE PIPE ENDS SHEET 1 [CORRUGATED METAL PIPE ]	11-08-22		HW-822_01	TEMPORARY PRECAST CONCRETE BARRIER CURB	11-08-22	
	HW-686_02b	DRAINAGE PIPE ENDS SHEET 2 [CONCRETE PIPE ]	11-08-22		HW-822 02a	TEMPORARY TRAFFIC BARRIER - DETAILS	11-08-22	
	HW-751_01	UNDERDRAINS AND UNDERDRAIN OUTLETS	02-28-24		HW-822 02b	TEMPORARY TRAFFIC BARRIER (BOLTED)	02-02-24	
	HW-803_01	PAVED APRONS	11-08-22		HW-822 02c	TEMPORARY TRAFFIC BARRIER & TEMPORARY TRAFFIC BARRIER (PINNED)	11-08-22	
	HW-811_01	CONCRETE CURBING	11-08-22		HW-905_01	STONE WALL FENCE	11-09-22	
	HW-813_01	GRANITE STONE TRANSITION CURBING	11-08-22		HW-906_01	WIRE FENCE	11-08-22	
•	HW-813_02	STONE CURBING	11-08-22					
	HW-815_01	BITUMINOUS CONCRETE CURBING	11-08-22					

SIGNATURE BLOCK:

## \*\*REVISED OR ADDED









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

*	SHEET NO.	TITLE	APPROVAL DATE**	<b>*</b>	SHEET NO.	TITLE	APPROVAI DATE**
	HW-910_01	W-BEAM METAL BEAM RAIL HARDWARE	11-08-22		HW-910_25a	METAL BEAM RAIL TRANSITION 350 TO MASH	01-05-24
	HW-910_02	METAL BEAM RAIL (TYPE R-B 350) GUIDERAIL	11-08-22		HW-910_25b	METAL BEAM RAIL MEDIAN APPLICATION TRANSITION 350 TO MASH GUIDERAIL	01-05-24
	HW-910_03	METAL BEAM RAIL (TYPE MD-B 350) GUIDERAIL	11-08-22		HW-910_26	THRIE-BEAM ATTACHMENT HARDWARE	11-08-22
	HW-910_04	METAL BEAM RAIL (TYPE R-B 350) SYSTEMS 5, 5A, & 6	11-08-22		HW-910_27	THRIE-BEAM ATTACHMENT	11-08-22
	HW-910_05	METAL BEAM RAIL R-B 350 SPAN TYPE I, II, III SECTIONS	11-08-22		HW-910_29	THRIE-BEAM BRIDGE ATTACHMENT TRAILING END	02-02-24
	HW-910_06	R-B 350 BRIDGE ATTACHMENT SAFETY SHAPE PARAPET	11-08-22		HW-911_01	R-B END ANCHORAGE TYPE I AND II	02-28-24
	HW-910_07	R-B 350 BRIDGE ATTACHMENT VERTICAL SHAPE PARAPET	11-08-22		HW-911_02	MD-B END ANCHORAGE TYPE I	02-28-24
	HW-910 09a	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 1	11-08-22		HW-911_03	ANCHOR IN EARTH CUT SLOPE & ANCHOR IN ROCK CUT SLOPE	01-05-24
	HW-910 09b	MISCELLANEOUS GUIDERAIL TRANSITIONS SHEET 2	11-08-22		HW-911_05	MERRITT PARKWAY GUIDERAIL END ANCHORS	11-08-22
	HW-910 10	METAL BEAM RAIL 8'' x 6'' BOX BEAM	11-08-22		HW-913_01a	CHAIN LINK FENCE	11-08-22
	HW-910 11	CURVED GUIDERAIL TREATMENT DETAIL	11-08-22		HW-913_01b	CHAIN LINK FENCE HARDWARE	11-08-22
	HW-910_12a	MERRITT PARKWAY GUIDERAIL LEADING END ATTACHMENTS AND SYSTEMS 2&3	11-08-22		HW-913_02	CHAIN LINK FENCE GATES	11-08-22
	HW-910_12b	MERRITT PARKWAY GUIDERAIL HARDWARE DETAILS	11-08-22		HW-918_01a	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 1	11-08-22
	HW-910_12c	MERRITT PARKWAY GUIDERAIL TRAILING END ATTACHMENTS	11-02-22		HW-918_01b	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 2	11-08-22
	HW-910_12d	MERRITT PARKWAY MEDIAN GUIDERAIL AND END ANCHOR	11-08-22		HW-918_01c	THREE CABLE GUIDERAIL (I-BEAM POSTS) SHEET 3	11-08-22
	HW-910_13a	THRIE-BEAM METAL BEAM RAIL HARDWARE	11-08-22		HW-921_01	CONCRETE SIDEWALKS	11-08-22
	HW-910_13b	THRIE-BEAM TRANSITIONS	11-08-22		HW-922_01	BITUMINOUS CONCRETE SIDEWALK AND BITUMINOUS CONCRETE DRIVEWAY	11-08-22
	HW-910_14a	THRIE-BEAM 350 BRIDGE ATTACHMENT	11-08-22		HW-924_01	CONCRETE DRIVEWAY RAMPS	11-09-22
	HW-910_14b	THRIE-BEAM 350 GUIDERAIL TRANSITION TO R-B 350 GUIDERAIL	11-08-22		HW-930_01	OBJECT MARKER ( MAINTENANCE )	02-28-24
	HW-910_15	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE I	11-08-22		HW-949_01a	LANDSCAPE PLANTING	11-09-22
	HW-910_16	MD-B 350 MEDIAN BARRIER SAFETY SHAPE ATTACHMENT TYPE II	11-08-22		HW-949_01b	TREE STAKING	11-02-22
	HW-910_17	R-B TERMINAL SECTION	11-08-22		HW-1800_01	GRADING PLAN FOR IMPACT ATTENUATION SYSTEMS (FLARED AND TANGENTIAL)	11-02-22
	HW-910_18	METAL BEAM RAIL (TYPE MD-I) GUIDERAIL	11-08-22		HW-1800 02	GRADING PLAN FOR IMPACT ATTENUATION SYSTEMS (MEDIAN/GORE)	11-02-22
	HW-910_19a	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE I	11-09-22				
	HW-910_19b	METAL BEAM RAIL (MODIFIED TYPE R-I) AND END ANCHORAGE TYPE II	11-08-22				
	HW-910_19c	METAL BEAM RAIL (MODIFIED TYPE R-I) SYSTEMS 2 AND 3	11-08-22				
	HW-910_20	MASH W-BEAM HARDWARE	01-05-24				
	HW-910_21	METAL BEAM RAIL ( R-B MASH ) GUIDERAIL	01-05-24				
	HW-910_22	METAL BEAM RAIL ( MD-B MASH) GUIDERAIL	11-08-22				
	HW-910_23	METAL BEAM RAIL (R-B MASH) HALF & QUARTER POST SPACING GUIDERAIL	11-08-22				
	HW-910_24	METAL BEAM RAIL SPAN SECTION TYPES II AND III	11-08-22				

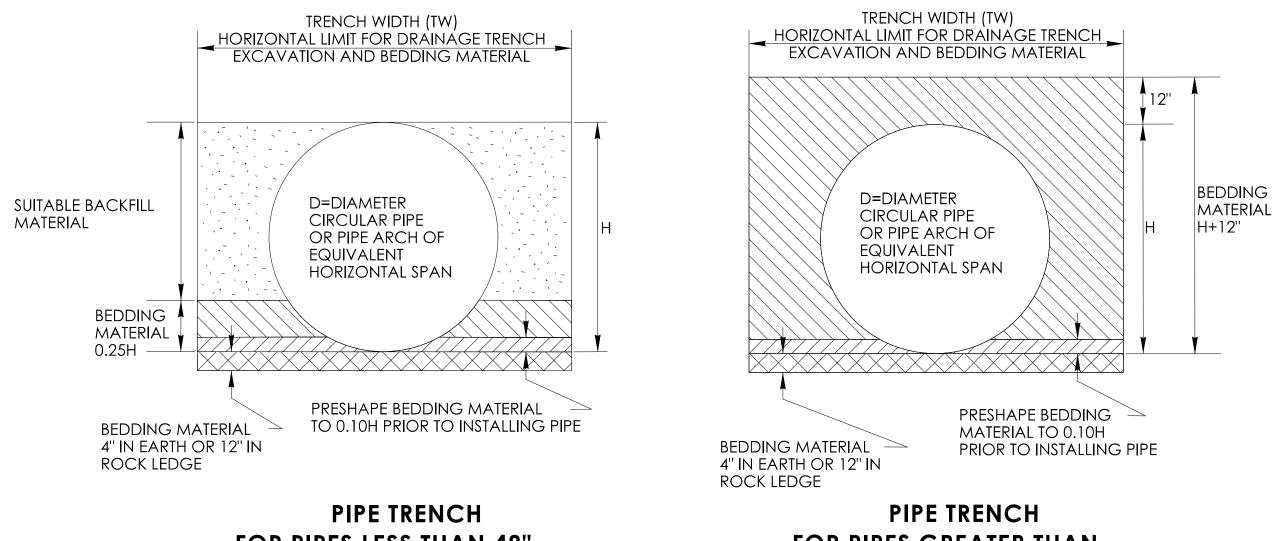
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### \*\*REVISED OR ADDED







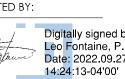
		SIGNATURE BLOCK:	SUBMITTED
	NOT TO SCALE	OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE	vet
		NEWINGTON, CT 06111	/to Falan
PLOTTED DATE: 9/21/2022			

# FOR PIPES LESS THAN 48"

## FOR PIPES GREATER THAN OR EQUAL TO 48"

	<b>X Z</b>
PIPE, PIPE-ARCH, OR DRAINAGE STRUCTURE	TRENCH WIDTH
PIPE OR PIPE-ARCH WITH NOMINAL INSIDE HORIZONTAL SPAN LESS THAN 30''	2' GREATER THAN NOMINAL INSIDE HORIZONTAL SPAN
PIPE OR PIPE-ARCH WITH NOMINAL INSIDE HORIZONTAL SPAN GREATER THAN OR EQUAL TO 30''	3' GREATER THAN NOMINAL INSIDE HORIZONTAL SPAN
PIPE OR PIPE-ARCH FABRICATED FROM STRUCTURAL PLATES	4' GREATER THAN NOMINAL INSIDE HORIZONTAL SPAN
DRAINAGE STRUCTURES	2' BEYOND ALL EXTERIOR OR FOUNDATION WALLS

### TRENCH WIDTH (TW) CHART







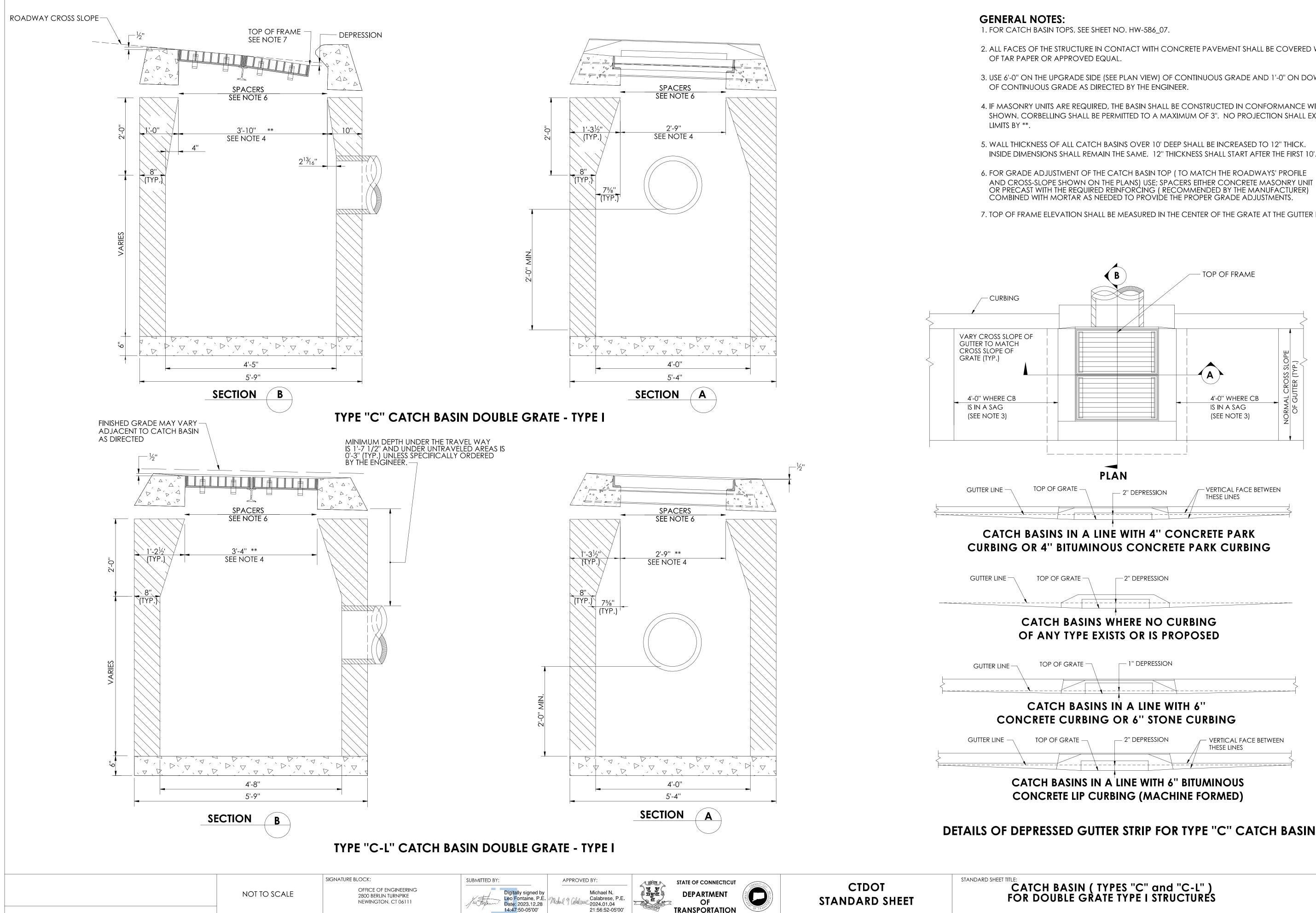




## DRAINAGE TRENCH EXCAVATION

STANDARD SHEET NO.:

HW-286\_01



PLOTTED DATE: 12/28/2023

MITTED BY:	APPROVED BY:	STATE OF CONNECTICUT	ONNECTICA	CIDOI
Digitally signed by Leo Fontaine, P.E. Date: 2023.12.28 14:47:50-05'00'		DEPARTMENT OF TRANSPORTATION	DEPART NEW OF TRANSPORT	CTDOT STANDARD S

CH BASIN (	TYPES "C"	and "C-L" ) STRUCTURES	
	<b>ΑΤΕ ΤΥΡΕ Ι</b>	STRUCTURÉS	5

STANDARD SHEET NO.:

## AND CROSS-SLOPE SHOWN ON THE PLANS) USE; SPACERS EITHER CONCRETE MASONRY UNIT OR PRECAST WITH THE REQUIRED REINFORCING ( RECOMMENDED BY THE MANUFACTURER) COMBINED WITH MORTAR AS NEEDED TO PROVIDE THE PROPER GRADE ADJUSTMENTS. 7. TOP OF FRAME ELEVATION SHALL BE MEASURED IN THE CENTER OF THE GRATE AT THE GUTTER LINE. TOP OF FRAME TER (TYP. Α OF GUTT 4'-0" WHERE CB IS IN A SAG (SEE NOTE 3) PLAN TOP OF GRATE -- VERTICAL FACE BETWEEN - 2" DEPRESSION THESE LINES \_\_\_\_\_ -----CATCH BASINS IN A LINE WITH 4" CONCRETE PARK **CURBING OR 4'' BITUMINOUS CONCRETE PARK CURBING** TOP OF GRATE -2" DEPRESSION ------CATCH BASINS WHERE NO CURBING OF ANY TYPE EXISTS OR IS PROPOSED TOP OF GRATE -1" DEPRESSION \_\_\_\_\_ CATCH BASINS IN A LINE WITH 6" **CONCRETE CURBING OR 6'' STONE CURBING** - VERTICAL FACE BETWEEN THESE LINES TOP OF GRATE -\_ 2" DEPRESSION \_\_\_\_\_ CATCH BASINS IN A LINE WITH 6" BITUMINOUS CONCRETE LIP CURBING (MACHINE FORMED) DETAILS OF DEPRESSED GUTTER STRIP FOR TYPE "C" CATCH BASIN

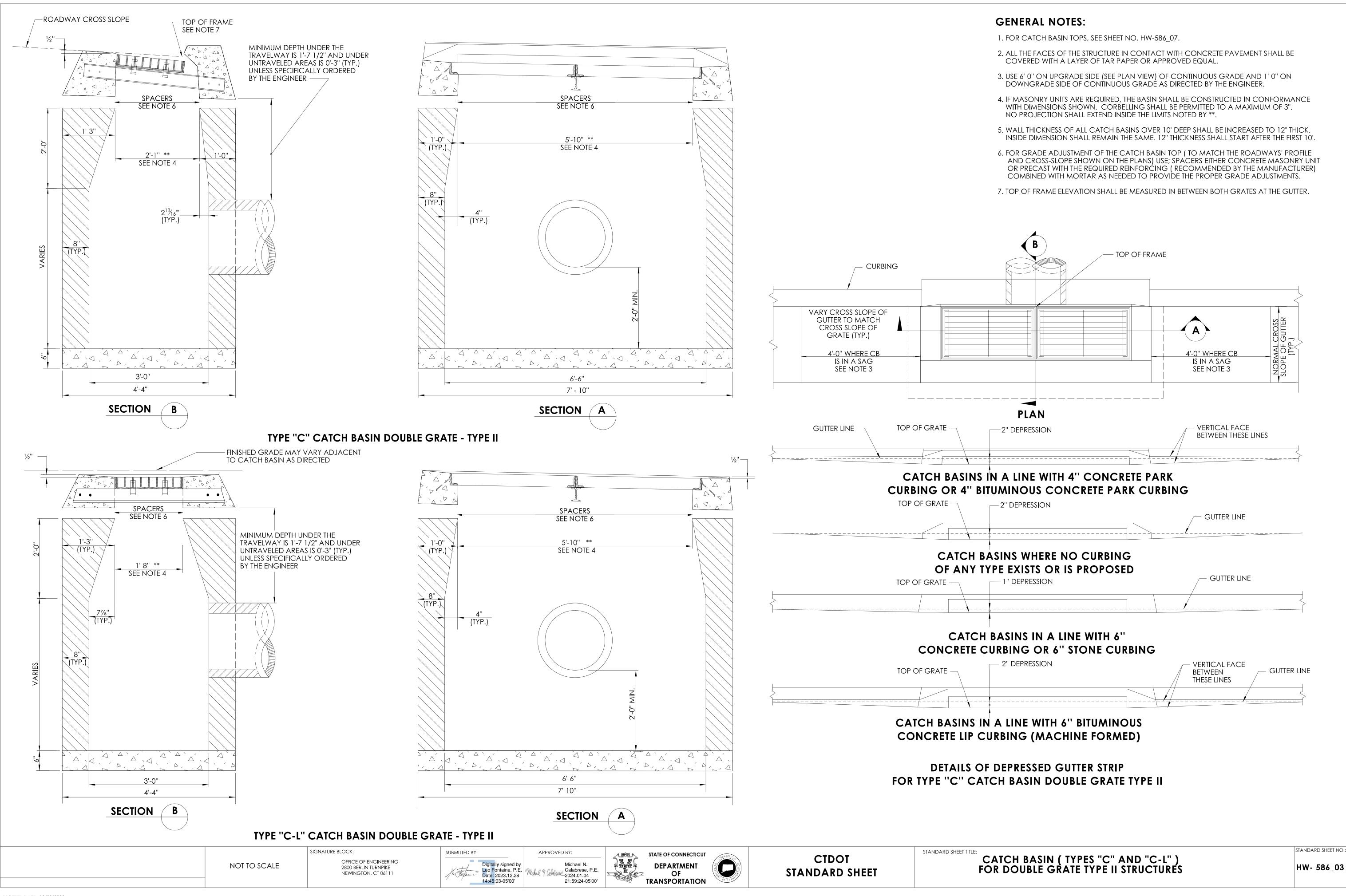
1. FOR CATCH BASIN TOPS, SEE SHEET NO. HW-586\_07.

2. ALL FACES OF THE STRUCTURE IN CONTACT WITH CONCRETE PAVEMENT SHALL BE COVERED WITH A LAYER OF TAR PAPER OR APPROVED EQUAL.

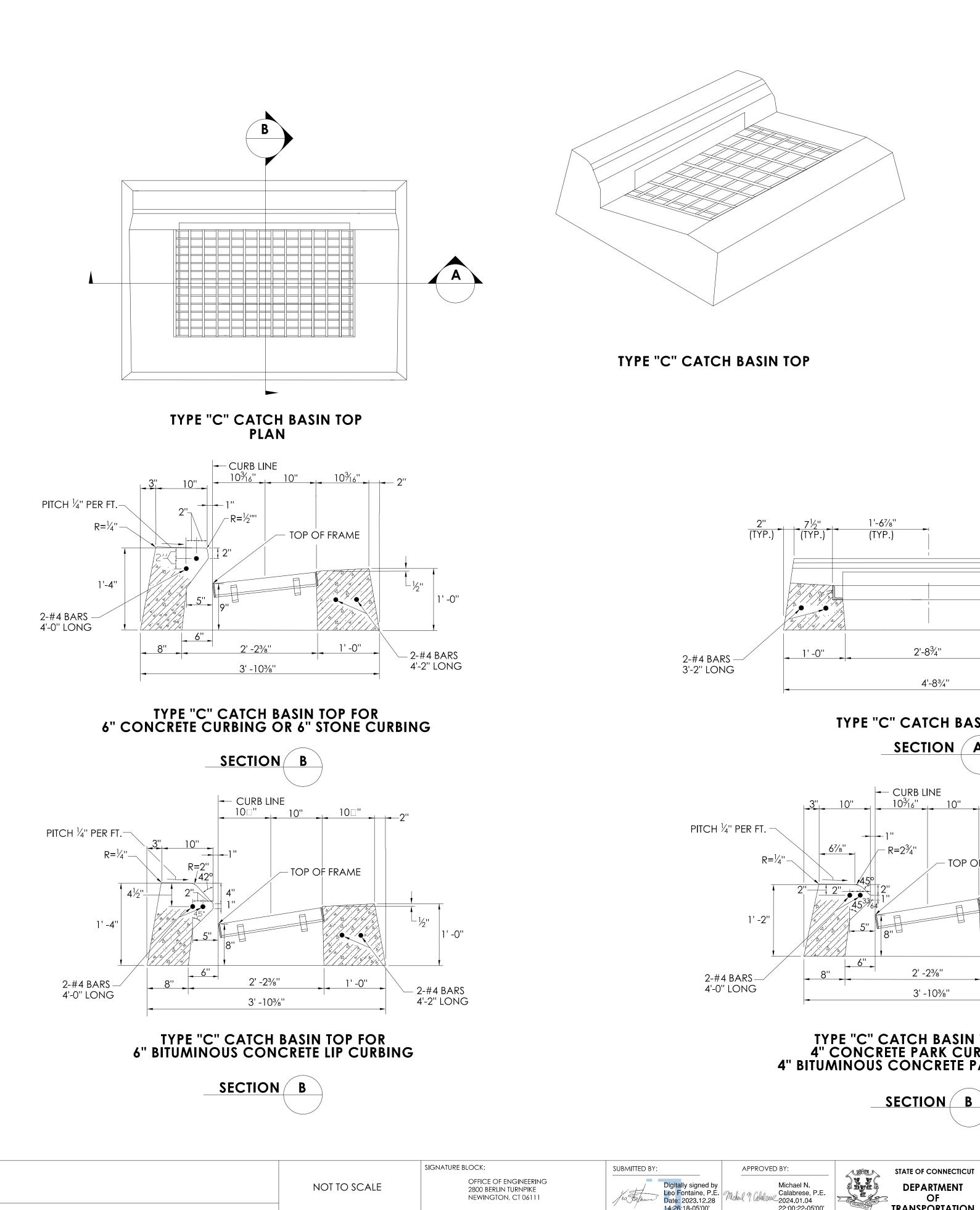
3. USE 6'-0" ON THE UPGRADE SIDE (SEE PLAN VIEW) OF CONTINUOUS GRADE AND 1'-0" ON DOWNGRADE SIDE

4. IF MASONRY UNITS ARE REQUIRED, THE BASIN SHALL BE CONSTRUCTED IN CONFORMANCE WITH DIMENSIONS SHOWN. CORBELLING SHALL BE PERMITTED TO A MAXIMUM OF 3". NO PROJECTION SHALL EXTEND INSIDE THE

OF CONTINUOUS GRADE AS DIRECTED BY THE ENGINEER.



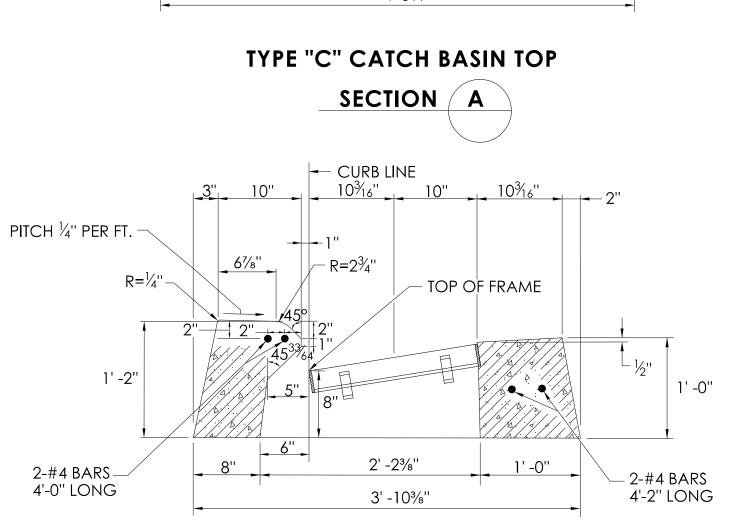
PLOTTED DATE: 12/28/2023

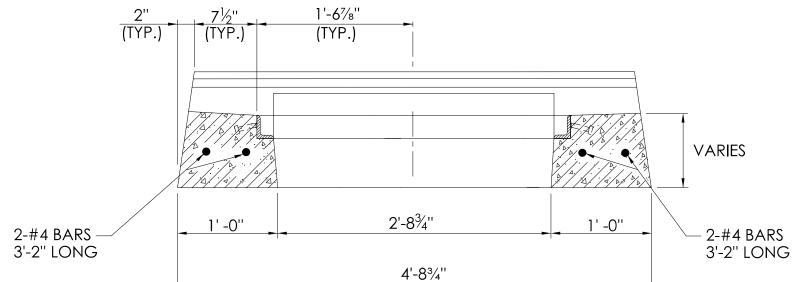


PLOTTED DATE: 12/28/2023

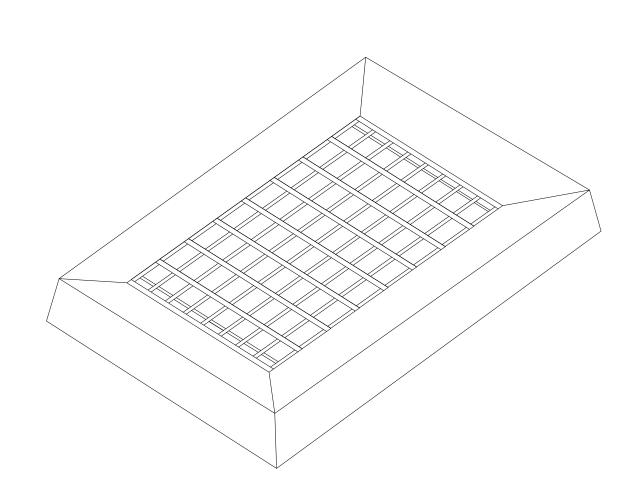
	T TITLE:
ITTED BY: Digitally signed by Leo Fontaine, P.E. Date: 2023.12.28 14:26:18-05'00' APPROVED BY: Michael N. Calabrese, P.E. 2024.01.04 22:00:22-05'00' STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STATE OF CONNECTICUT	

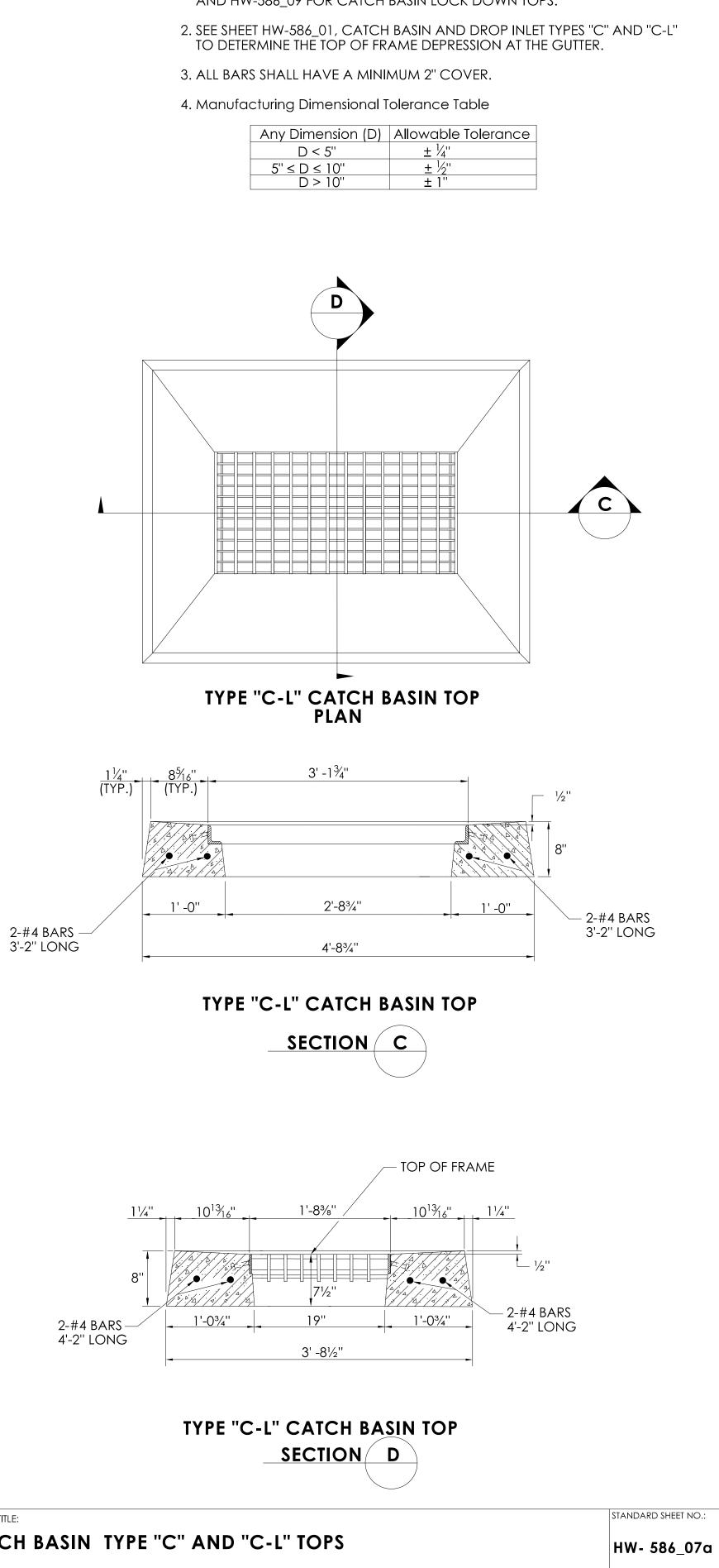




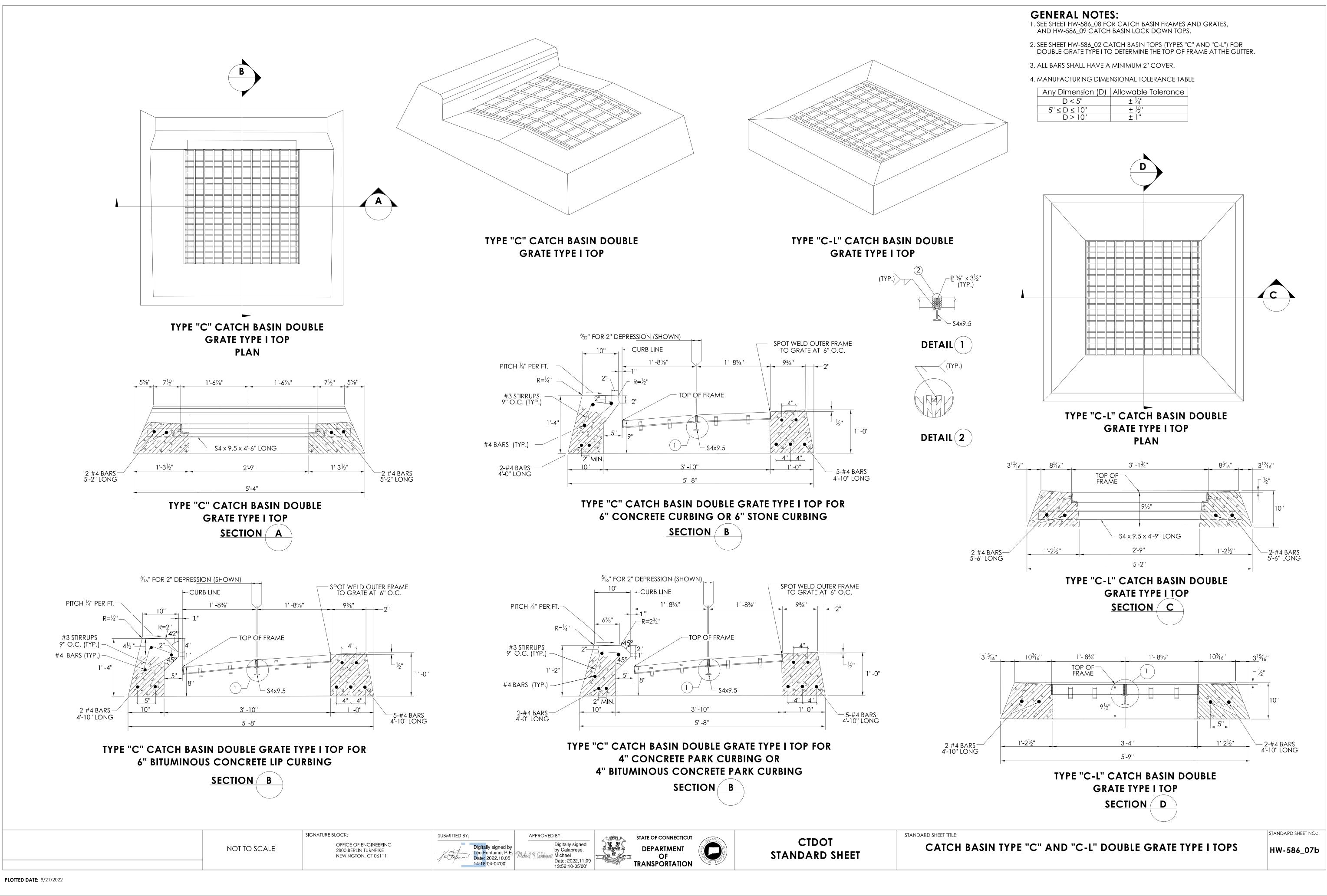


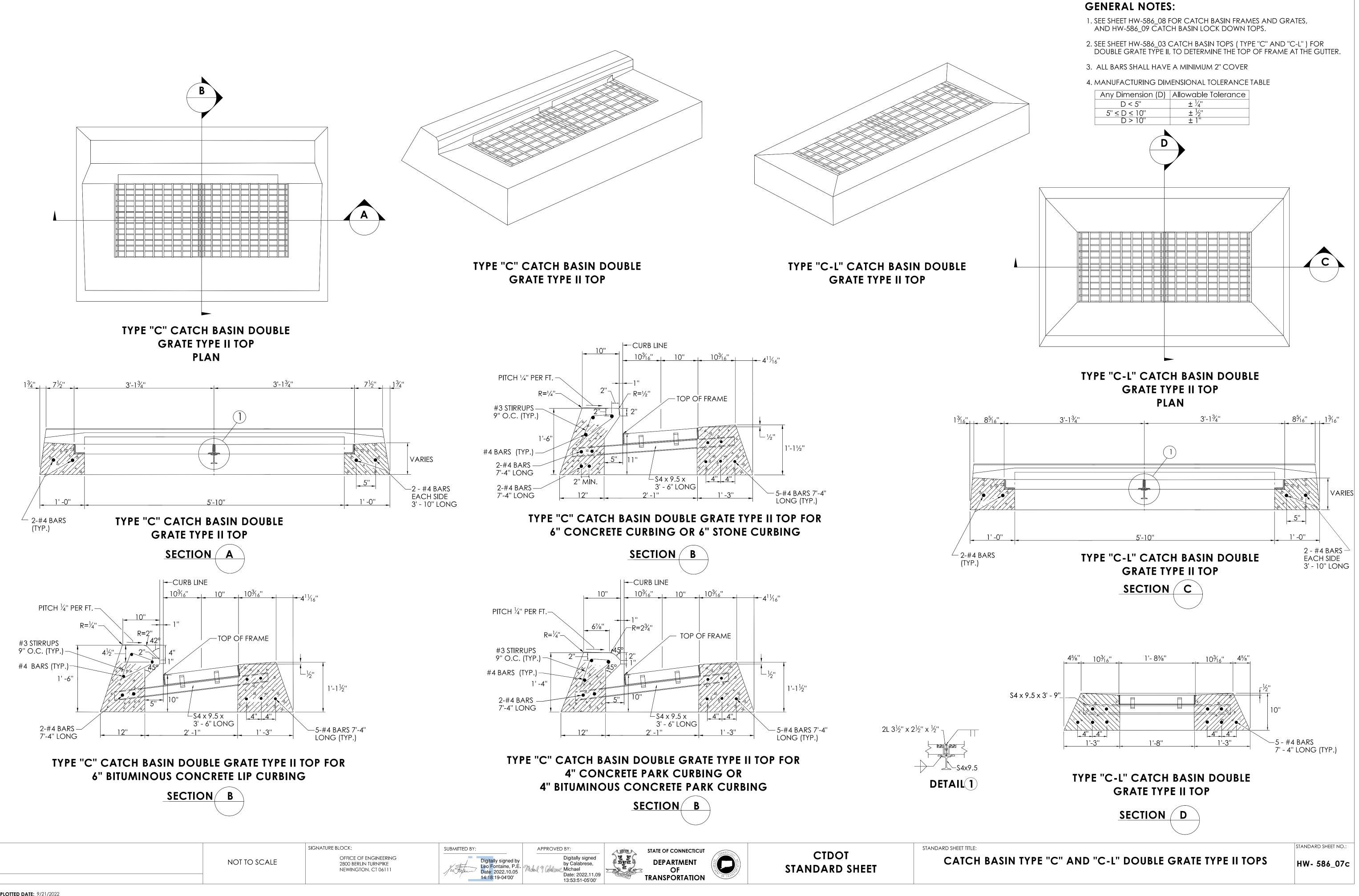
TYPE "C-L" CATCH BASIN TOP



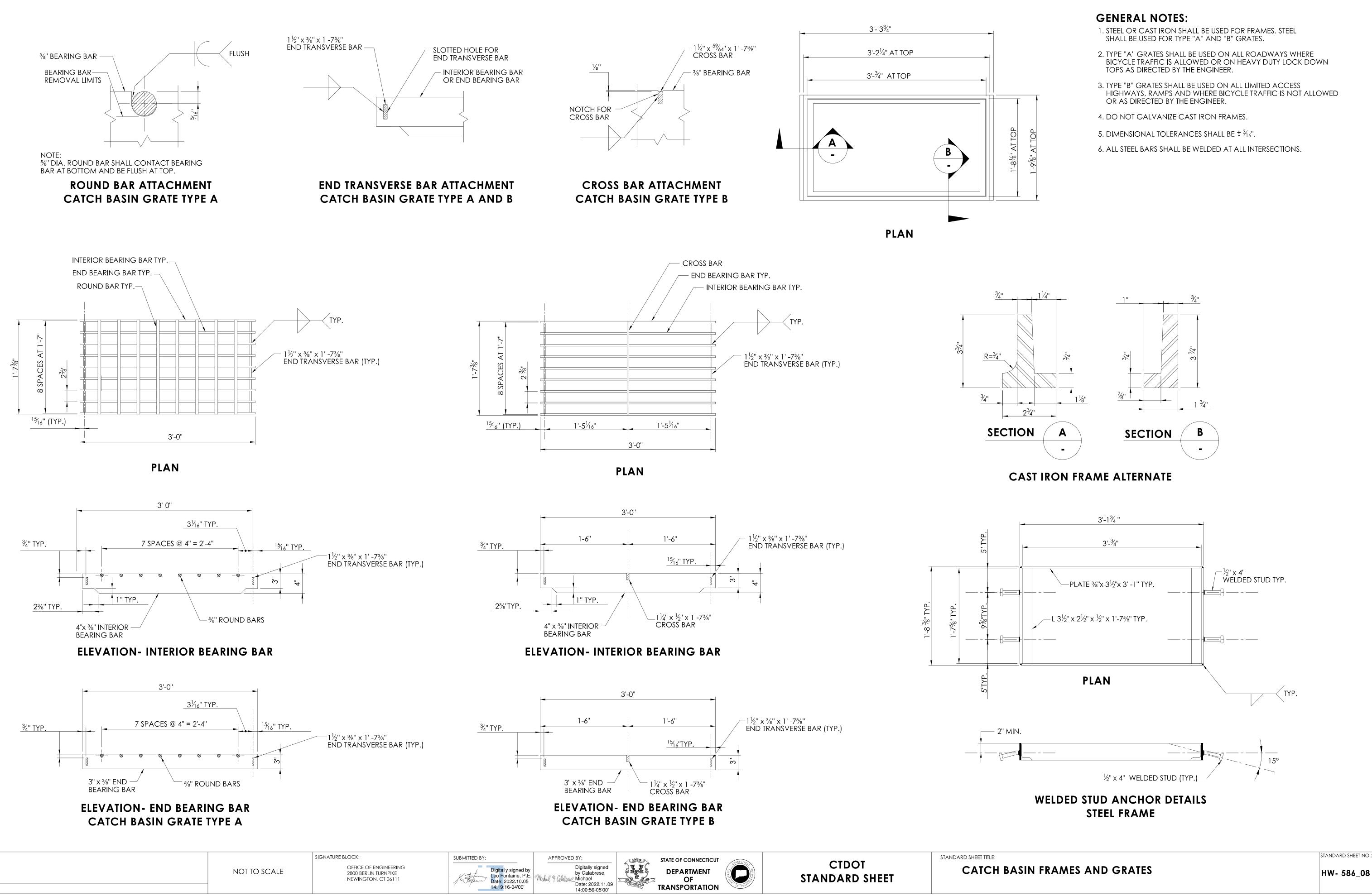


1. SEE SHEET HW-586\_08, FOR CATCH BASIN FRAMES AND GRATES AND HW-586\_09 FOR CATCH BASIN LOCK DOWN TOPS.



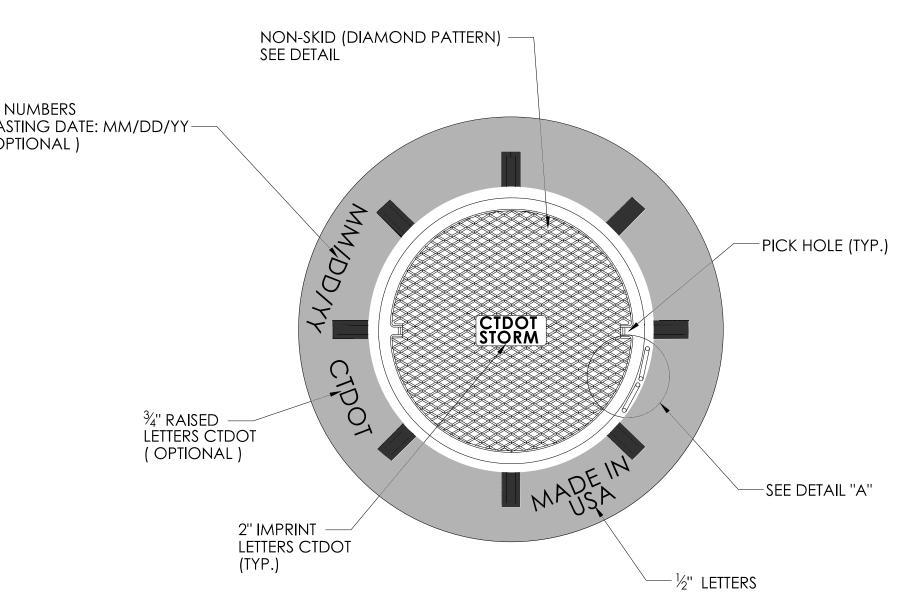


**PLOTTED DATE:** 9/21/2022

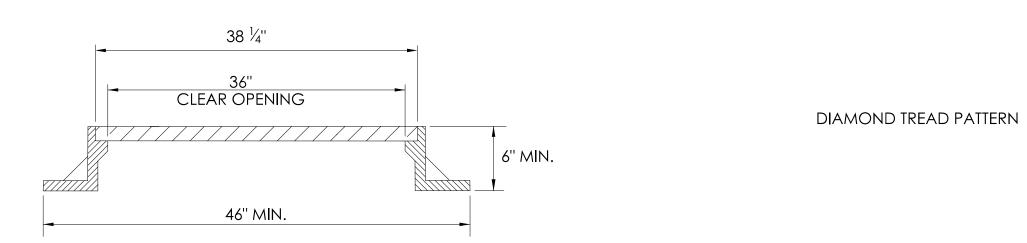


**PLOTTED DATE:** 9/21/2022

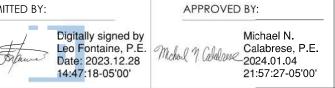
Miniooth Citor	ETDOT STORM MADE M MADSA		<sup>3</sup> ⁄8" N CAS ( OF
MANHOLE	FRAME AND COVE	R	
	CTDQT         VICTOR	PICK HOLE (TYP.)	
	ANHOLE COVER PLAN		
	NOT TO SCALE	SIGNATURE BLOCK: OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMIT

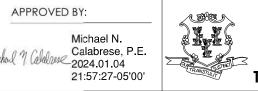


PLAN



# MANHOLE FRAME AND COVER

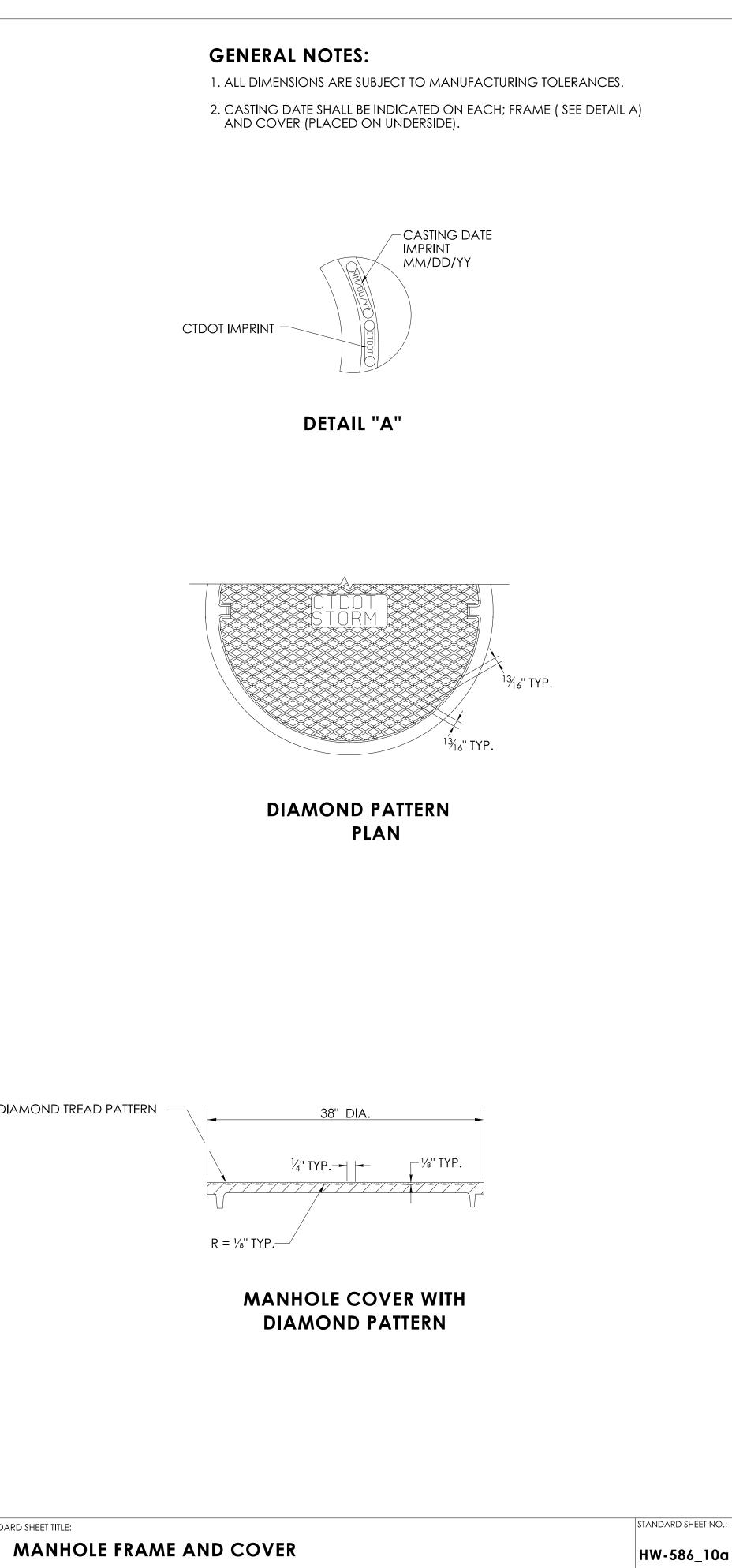


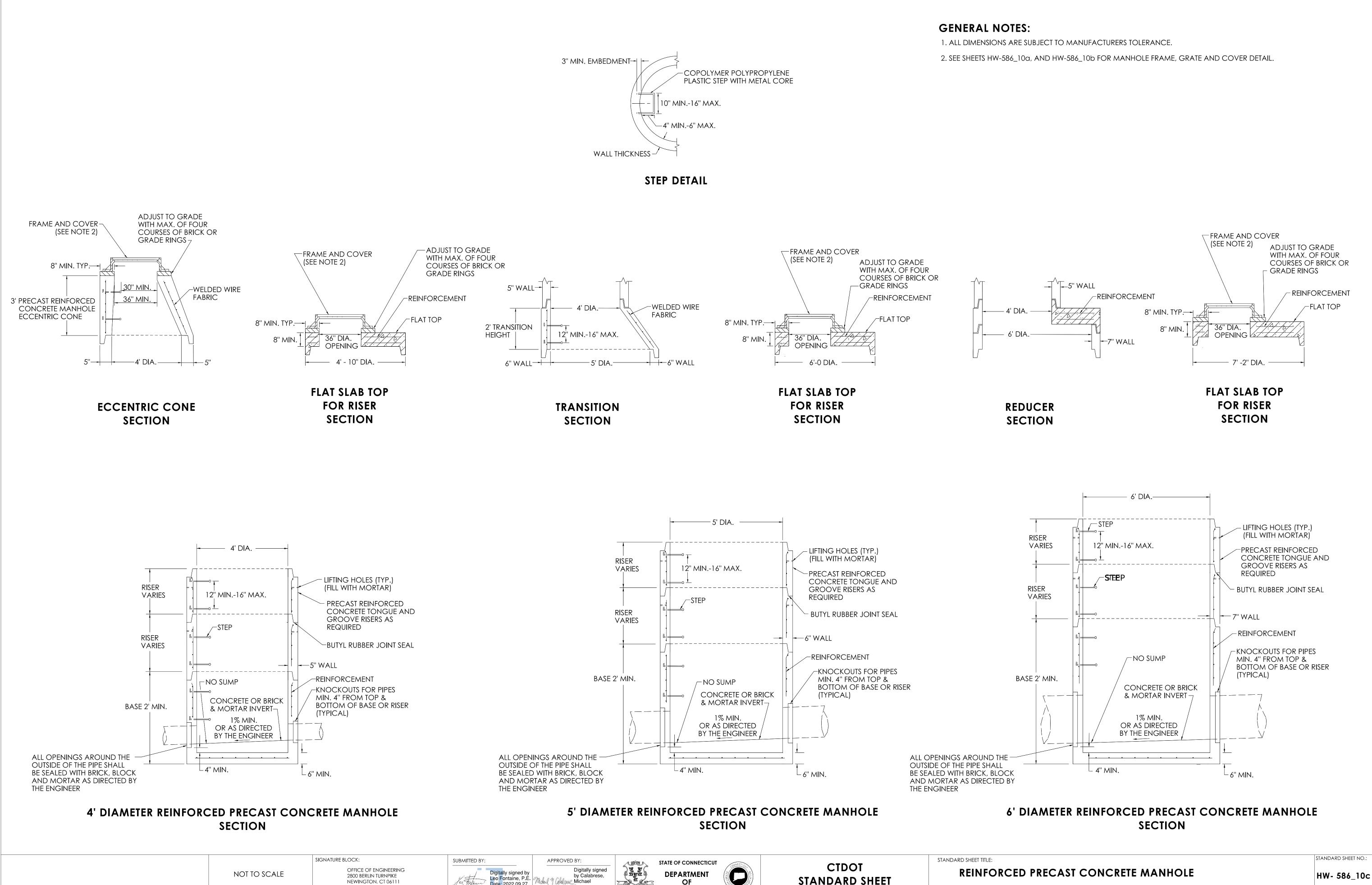




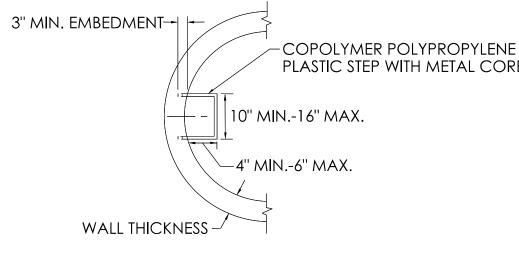


CTDOT STANDARD SHEET STANDARD SHEET TITLE:

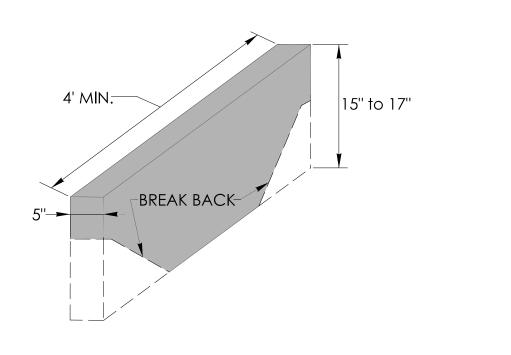




**PLOTTED DATE:** 9/21/2022



TED BY:	APPROVED BY:	STATE OF			STANDARD SHEET TITLE:
Digitally signed by Leo Fontaine, P.E. Date: 2022.09.27 14:36:19-04'00'	Digitally signed by Calabrese, Michael Date: 2022.11.08 11:44:21-05'00'	DEPA	OF ORTATION	CTDOT STANDARD SHEET	REINFOR

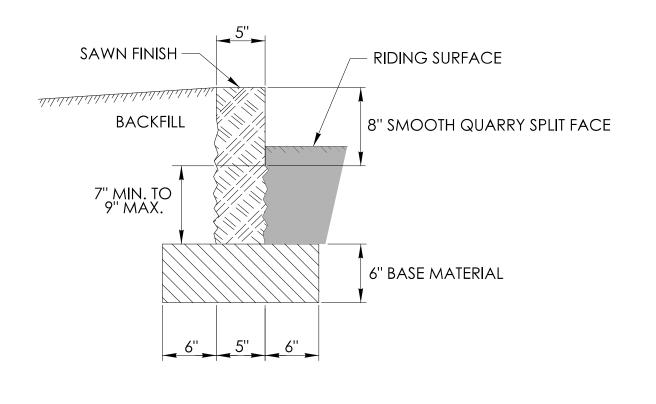


# **STONE CURBING**



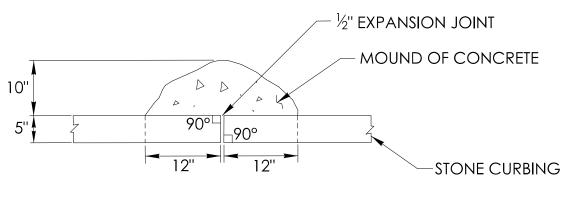
9'' FOR CURB LENGTHS OF 6' OR MORE, 6'' FOR CURB LENGTHS LESS THAN 6'

# FRONT ELEVATION



# SECTION

	SIGNATURE BLOCK:	SUBMITTE
NOT TO SCALE	OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	Juston
		× ./



PLAN

ELEVATION MOUND OF CONCRETE AT ALL JOINTS

BACK

FOR STONE CURBING

Digitally signed Leo Fontaine, F Date: 2022.09.1 14:42:55-04'00'	P.É. Mchol 7 Calabrese, Mchol 7 Calabrese Michael Date: 2022.11.08	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	Contraction of the second seco	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: STONE C
14.42.00 04 00	11:40:25-05'00'				

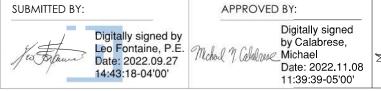
CURBNG

STANDARD SHEET NO.:



6" BASE MATERIAL

BITUMINOUS CONCRETE LIP CURBING (6" HIGH)
RIDING SURFACE
SECTION
NOT TO SCALE SIGNATURE BLOCK: 2800 BERLIN TURNPIKE NEWINGTON, CT 06111

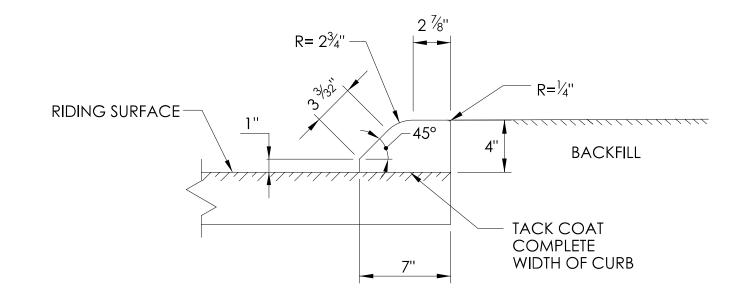




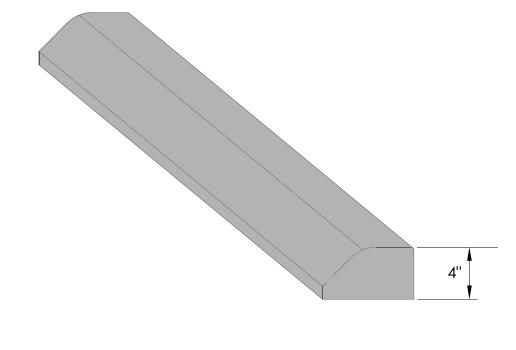


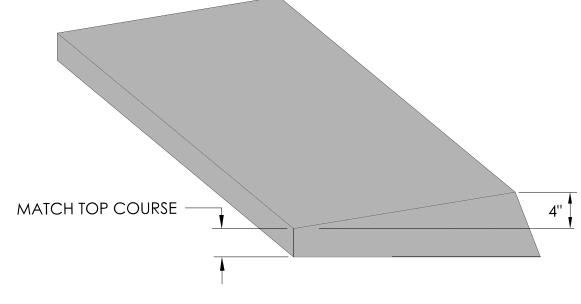


# SECTION

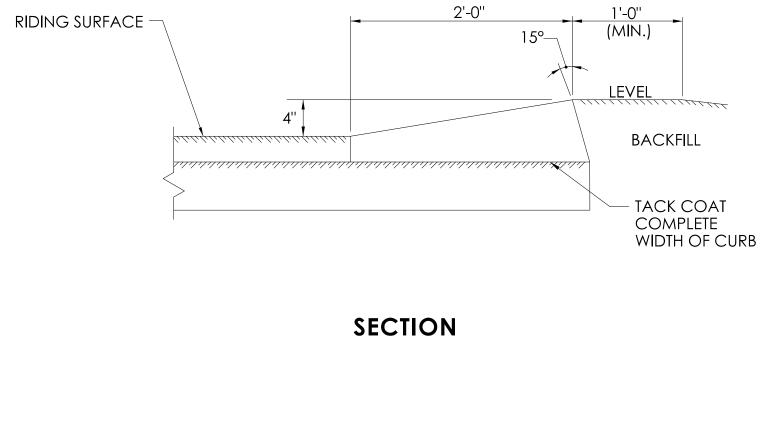


# **BITUMINOUS CONCRETE PARK CURBING** (4" HIGH)





# BITUMINOUS CONCRETE BERM CURBING (4" HIGH)

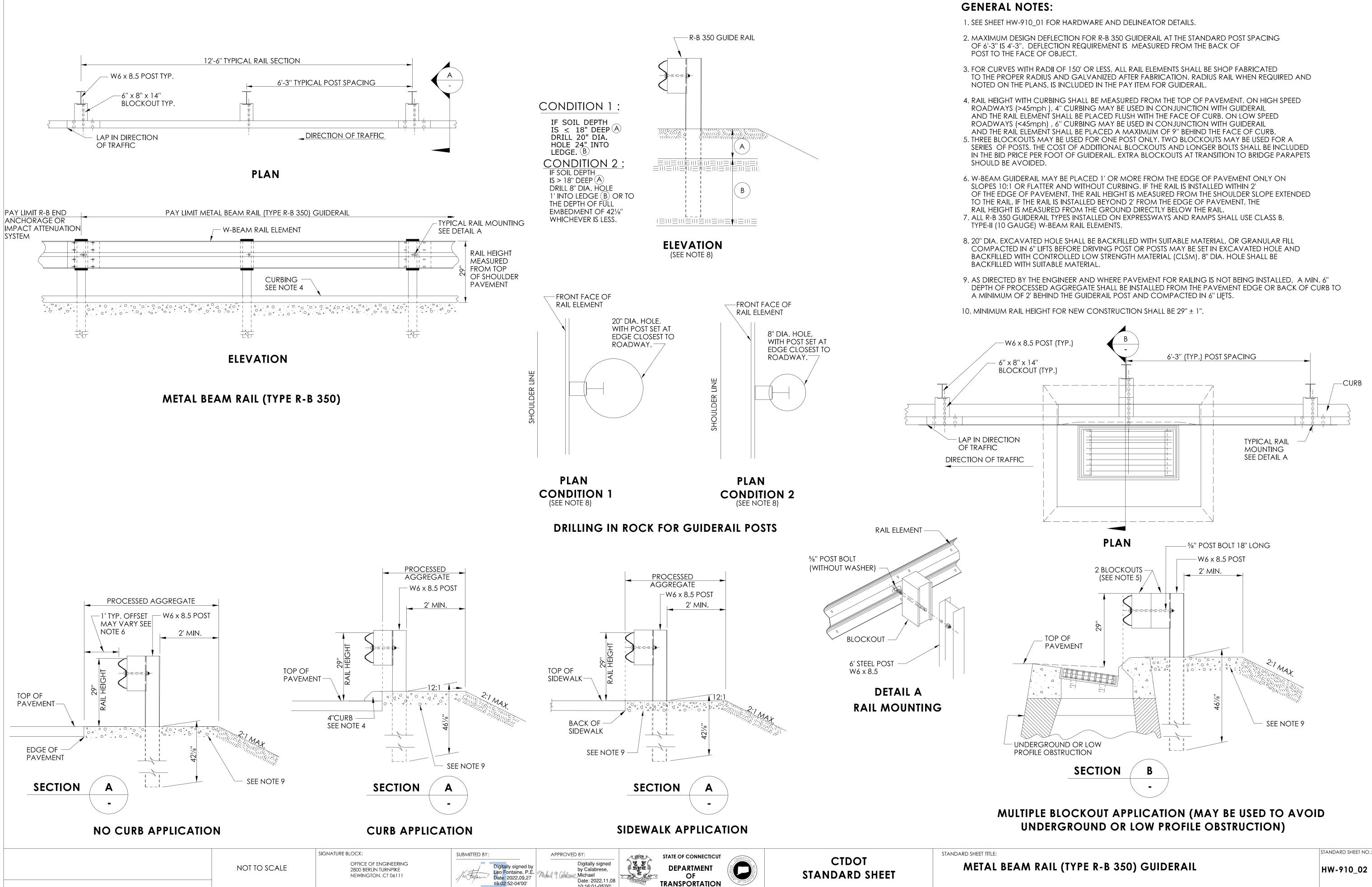


**BITUMINOUS CONCRETE CURBING** 

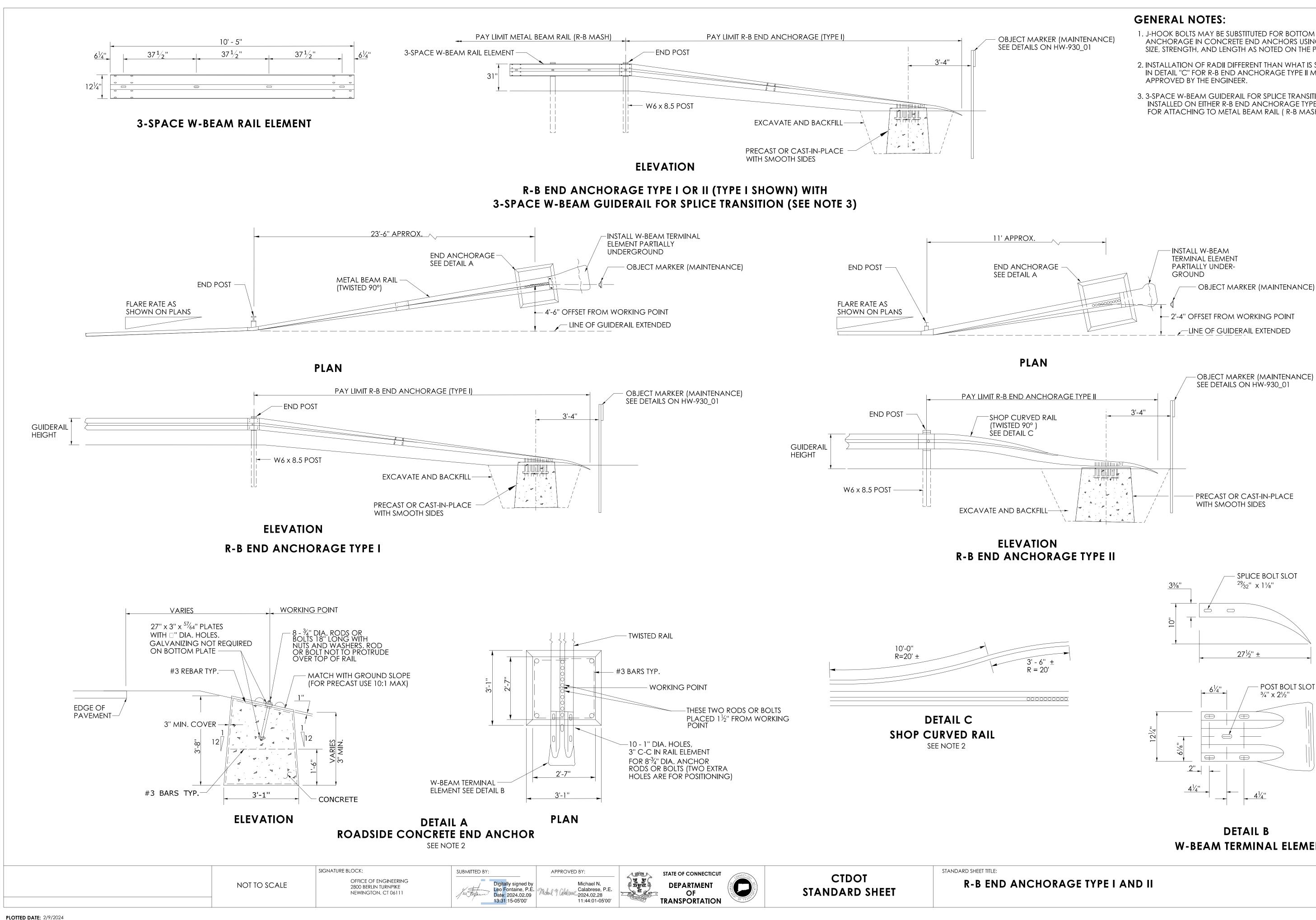
STANDARD SHEET NO.:

HW-815\_01

PLOTTED DATE: 9/21/2022



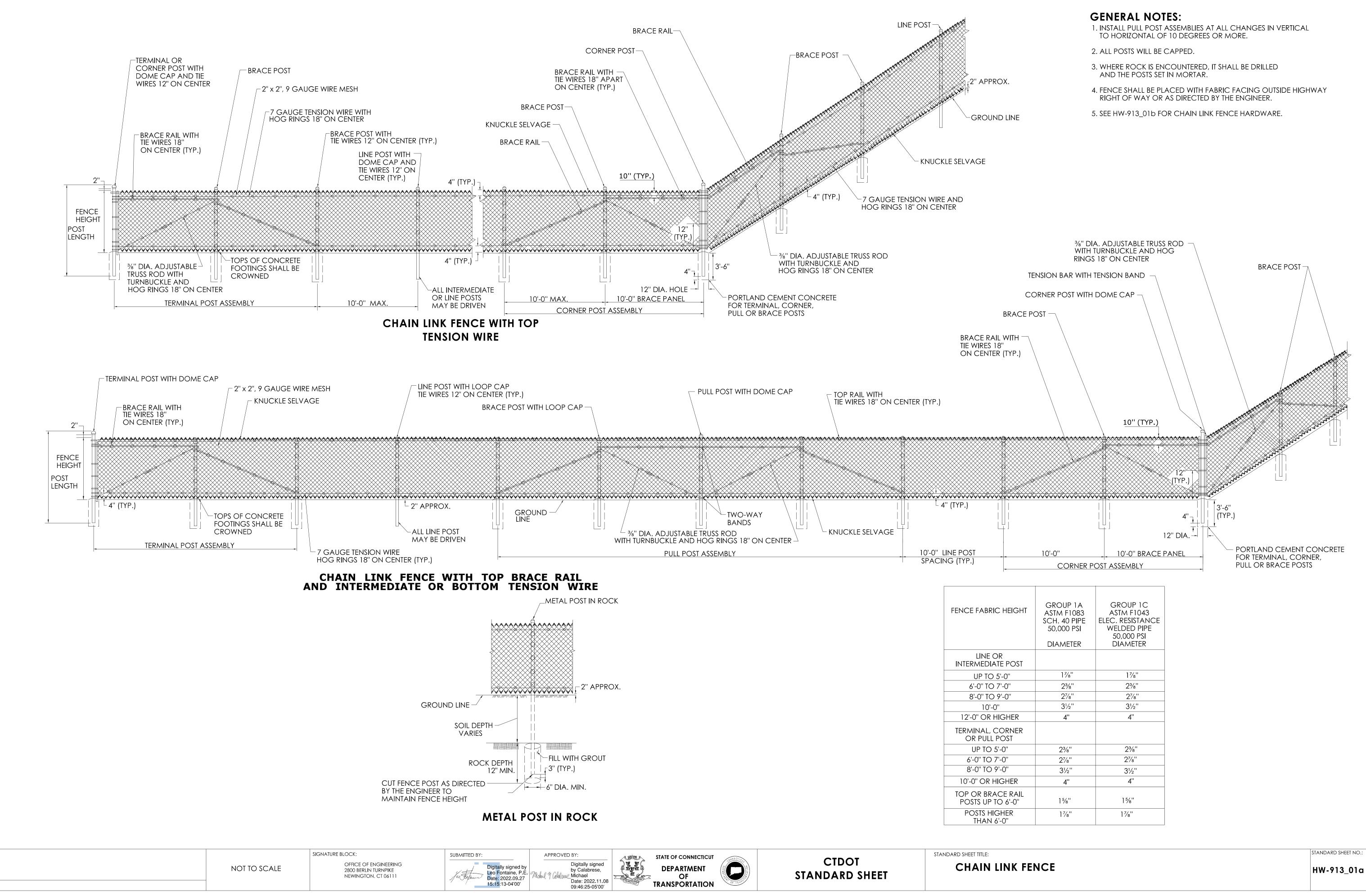
10:16:01-05'00'

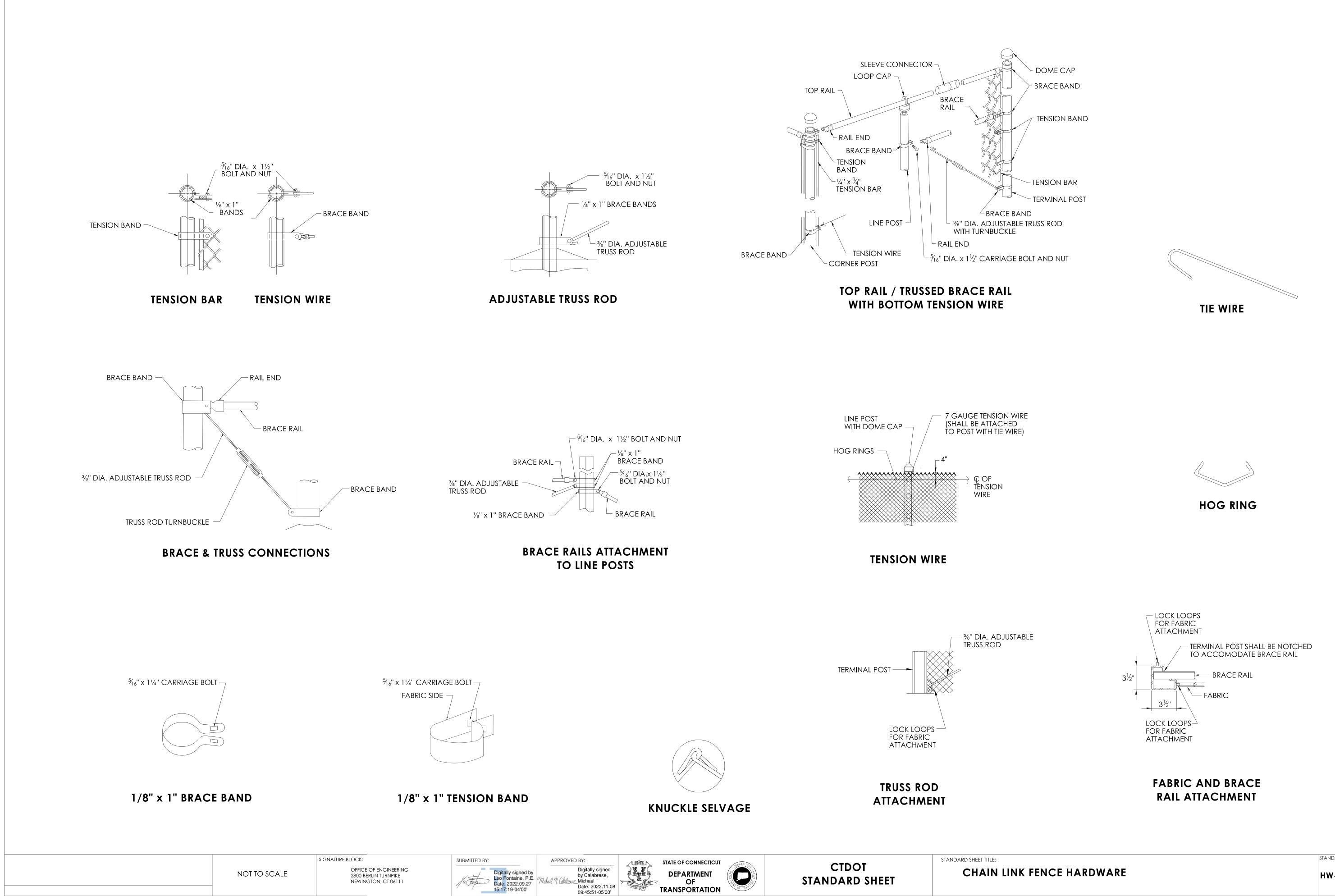


**PLOTTED DATE: 2/9/2024** 

- 1. J-HOOK BOLTS MAY BE SUBSTITUTED FOR BOTTOM PLATE ANCHORAGE IN CONCRETE END ANCHORS USING THE SAME SIZE, STRENGTH, AND LENGTH AS NOTED ON THE PLANS.
- 2. INSTALLATION OF RADII DIFFERENT THAN WHAT IS SHOWN IN DETAIL "C" FOR R-B END ANCHORAGE TYPE II MUST BE
- 3. 3-SPACE W-BEAM GUIDERAIL FOR SPLICE TRANSITION MAYBE INSTALLED ON EITHER R-B END ANCHORAGE TYPE I OR II FOR ATTACHING TO METAL BEAM RAIL (R-B MASH).

**W-BEAM TERMINAL ELEMENT** 

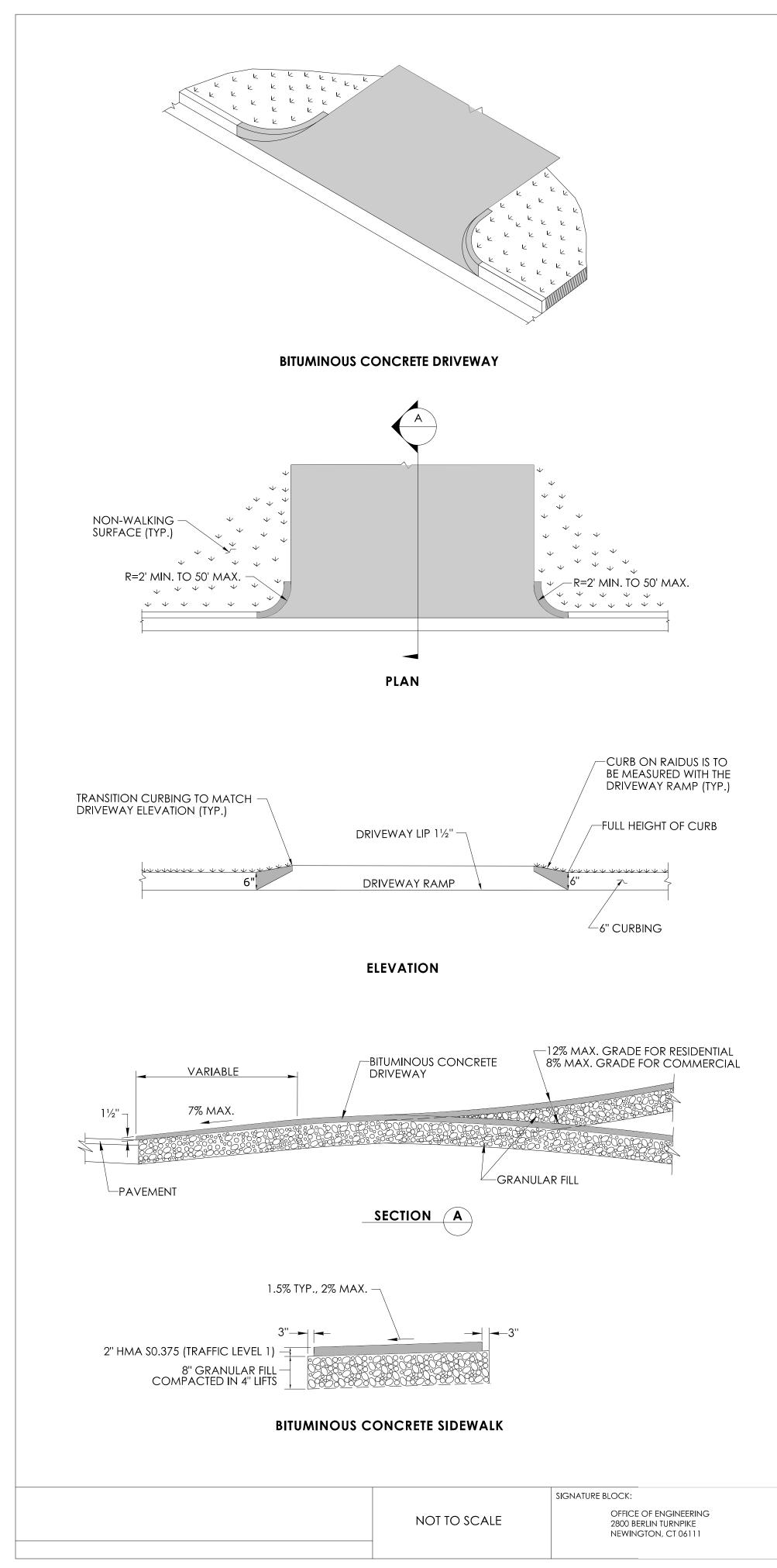




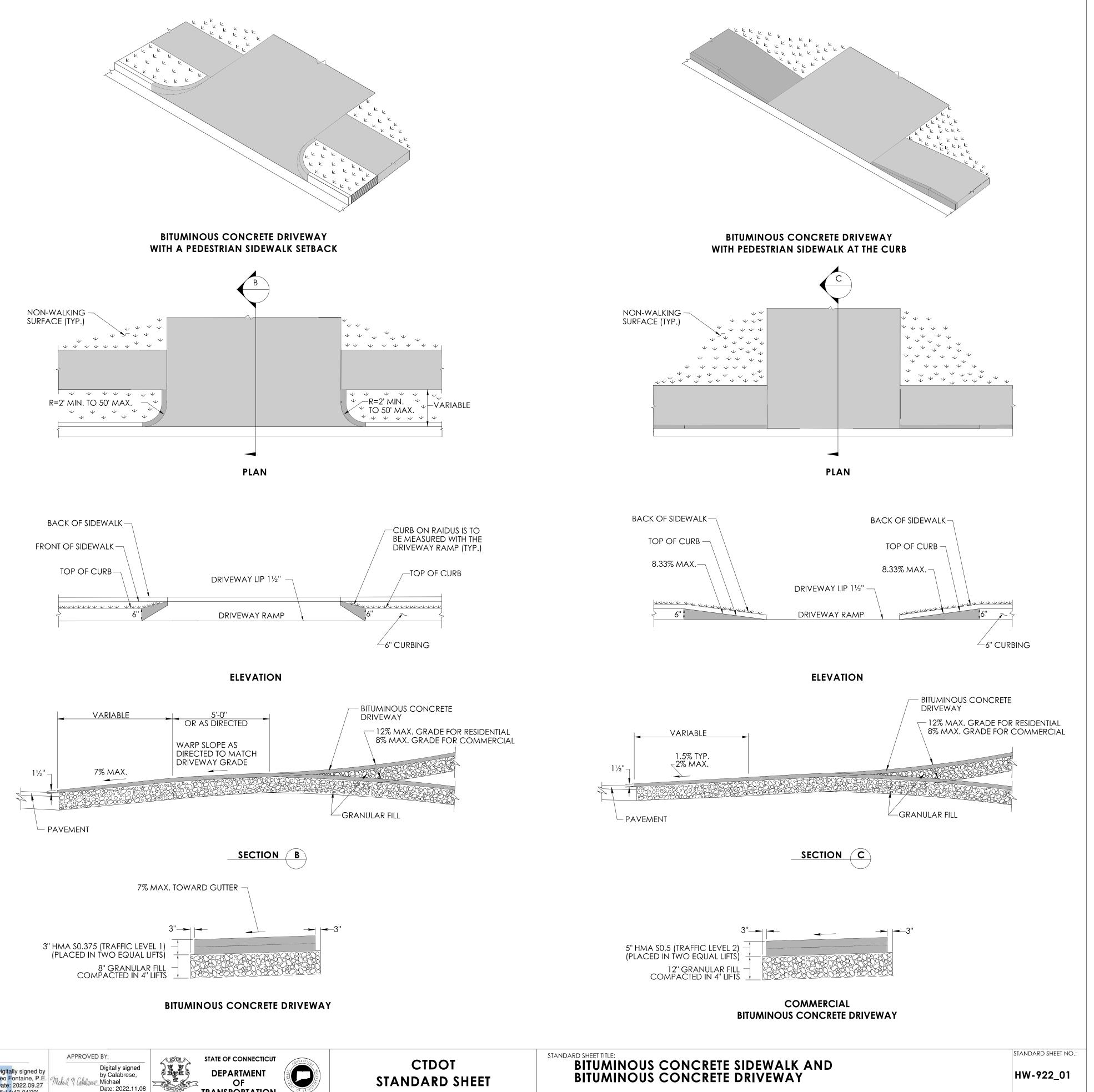
PLOTTED DATE: 9/22/2022

d by P.E. .27 0'	APPROVED BY: Digitally signed by Calabrese, Michael Date: 2022.11.08 09:45:51-05'00'	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	Count COLOGIA	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: CHAIN LINK

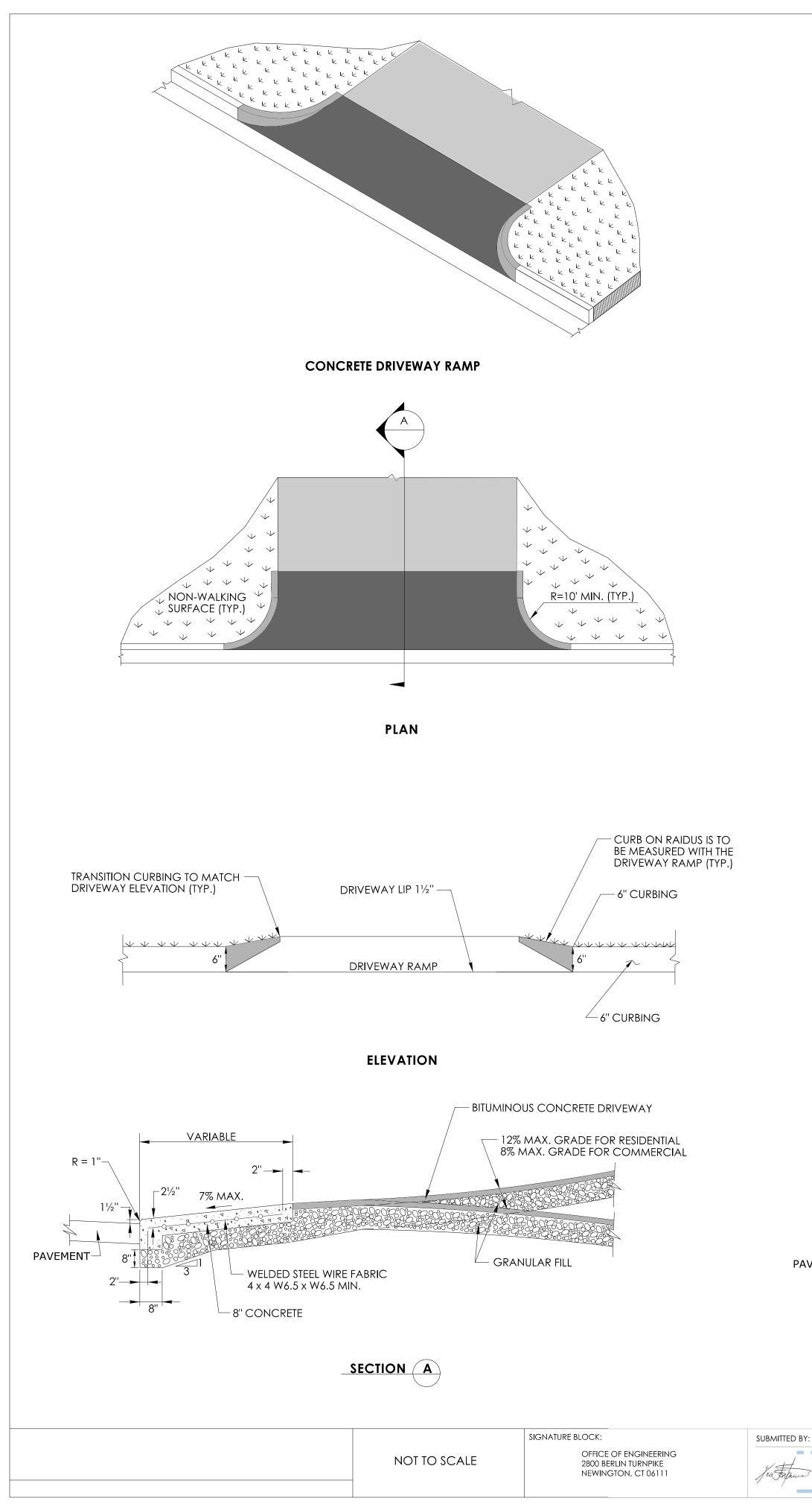
STANDARD SHEET NO.:



**PLOTTED DATE:** 9/23/2022

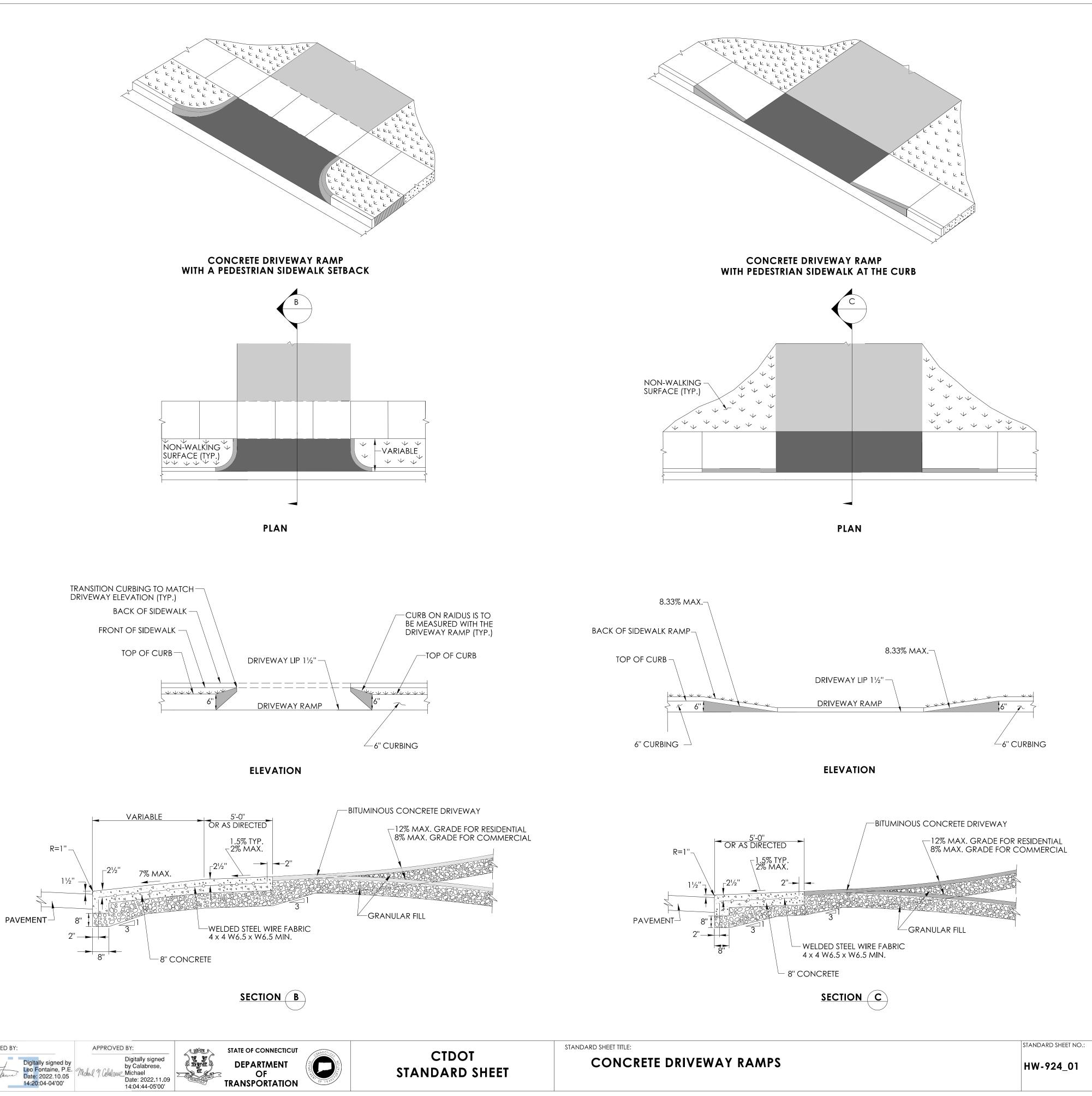


SUBMITTED BY:	APPROVED BY:		OWNECTION	CIDAT	STA
Digitally signed by	Digitally signed by Calabrese.	DEPARTMENT		CIDOI	
Jos Falance Leo Fontaine, P.E. Date: 2022.09.27	Mchol 7 Coldree Michael Date: 2022,11,08	OF	AR INFILIA	STANDARD SHEET	
15:14:43-04'00'	09:41:50-05'00'		OFTRAN		



PLOTTED DATE: 10/5/2022

Talame



ONLY STANDARD	SHEETS MARKED WITH AN "V" ARE IN THIS PROJECT # 0088-0198	**REVISED OR ADDED			
SHEET NO.	TITLE	APPROVAL DATE**	SHEET NO.	TITLE	APPROVAL DATE**
<b>TR-1000_01</b>	GENERAL CLAUSES (TEST PROCEDURES)	1/2014	TR-1205_01	DELINEATION, DELINEATOR AND OBJECT MARKER DETAILS	8/2018
	TRENCHING & BACKFILLING, ELECTRICAL CONDUIT	2/2024	TR-1208_01	SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS	8/2018
<b>TR-1002_01</b>	TRAFFIC CONTROL FOUNDATIONS	2/2024	TR-1208_02	METAL SIGN POSTS AND SIGN MOUNTING DETAILS	6/2017
<b>TR-1010_01</b>	CONCRETE HANDHOLE	2/2024	TR-1210_04	PAVEMENT MARKINGS LINES AND SYMBOLS	8/2018
<b>TR-1102_01</b>	PEDESTALS, PEDESTRIAN SIGNALS	4/2012	TR-1210_05	PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS	4/2017
<b>TR-1105_01</b>	TRAFFIC SIGNALS AND CABLE ASSIGNMENTS	8/2018	TR-1210_06	PAVEMENT MARKINGS FOR DIVIDED HIGHWAYS	8/2018
<b>TR-1107_01</b>	PEDESTRIAN PUSH BUTTON	8/2018	TR-1210_07	PAVEMENT MARKINGS FOR EXIT RAMPS	4/2017
<b>TR-1108_01</b>	CONTROLLERS	5/2013	TR-1210_08	PAVEMENT MARKINGS FOR NON FREEWAYS	8/2018
	LOOP VEHICLE DETECTOR AND SAWCUT	4/2014	TR-1210_09	PAVEMENT MARKINGS FOR BICYCLE LANES, PARKING STALLS, AND RR CROSSINGS	4/2017
TR-1113_01 (	CONTROL CABLE	4/2014	TR-1220_01	SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS	8/2018
TR-1114_01	BONDING & UTILITY POLE ATTACHMENT DETAILS, SIGN HANGER, "Y" CLAMP DETAILS	8/2018	TR-1220_02	CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES	8/2018

# STANDARD SHEETS SHALL BE USED WITH STANDARD SPECIFICATIONS

	SIGNATURE BLOCK:	SUBMITTED BY:
NOT TO SCALE	OFFICE OF ENGINEERING 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	



STANDARD SHEET NO.: TR-STD\_INDEX DOCUMENT ALL LOOP DETECTOR VALUES BOTH CALCULATED AND MEASURED.

# **DEFINITIONS:**

LOOP: #14 AWG WIRE IN SAWCUT, TERMINATED IN HANDHOLE, IMSA SPEC 51-7. LEAD-IN: 14/2 SHIELDED TWISTED PAIR CABLE FROM HANDHOLE TO CONTROLLER, IMSA SPEC 50-2. LOOP CIRCUIT: LOOP SAWCUT WIRE SPLICED TO 14/2 LEAD-IN CABLE. AMPLIFIER: ELECTRONIC DEVICE CONNECTED TO LOOP CIRCUIT. SENSES CHANGE IN RESONANT FREQUENCY AND CREATES AN OUTPUT TO THE CONTROLLER. MEGOHMETER: INSTRUMENT SPECIFICALLY DESIGNED TO TEST THE INSULATION RESISTANCE OF A CIRCUIT. COMMON MANUFACTURERS: AMEC<sup>®</sup>, AMPROBE<sup>®</sup>, FLUKE<sup>®</sup>, MEGGER<sup>®</sup>.

# 1: RESISTANCE:

- 1a: INSULATION RESISTANCE: PERFORM A 600 VOLT (MINIMUM) MEGOHMETER TEST ON LOOP CIRCUIT. THE LOOP AMPLIFIER MUST BE DISCONNECTED FROM THE LOOP CIRCUIT OR THE LOOP AMPLIFIER WILL BE DAMAGED. THE RESISTANCE OF THE LOOP WIRE TO GROUND MUST BE GREATER THAN 100 MEG OHMS.
- 1b: WIRE RESISTANCE: MEASURE THE DC RESISTANCE OF THE LOOP CIRCUIT. THE LOOP CIRCUIT MUST BE DISCONNECTED FROM THE AMPLIFIER. USING AN OHMMETER CONNECTED ACROSS THE LOOP CIRCUIT, MEASURE THE DC RESISTANCE OF THE CONDUCTORS. THE RESISTANCE SHOULD BE LESS THAN 4 OHMS.
- NOTE: ALL TESTS SHALL BE DONE AT THE CONTROLLER ASSEMBLY (CA), HOWEVER IT IS RECOMMENDED TO PERFORM A PRELIMINARY MEGOHMETER TEST AT THE HANDHOLE PRIOR TO SEALING THE SAWCUT AND SPLICING TO THE LEAD-IN. IF A DEFECTIVE LOOP WIRE IS FOUND, IT MAY BE EASILY REPLACED.

# 2: LOOP CIRCUIT INDUCTANCE:

2a: CALCULATE INDUCTANCE OF LOOP ( $L_{1OOP}$ ) AND LEAD-IN CABLE ( $L_{14/2}$ ). LOOP INDUCTANCE (METRIC) LOOP INDUCTANCE (ENGLISH)

 $L_{LOOP} = (P/4) (N^2 + N)$  $L_{LOOP} = (3.28P/4) (N^2 + N)$ LEAD-IN INDUCTANCE LEAD-IN INDUCTANCE  $L_{14/2} = (0.24 \,\mu\text{h/FT}) \,(\text{D})$  $L_{14/2} = (0.78 \,\mu\text{h/m}) \,(\text{D})$ 

WHERE:

D
D
D
D

L <sub>T</sub> =	TOTAL INDUCTANCE OF THE SEGMENTED ARRANGEMENT.
•	INDUCTANCE OF INDIVIDUAL LOOP SEGMENTS.

EXAMPLE: (IN ENGLISH)

6'x 6', 4 TURNS, APPROXIMATELY 300' FROM THE CONTROLLER

$L_{LOOP} = (24/4) (4^2 + 4)$	L <sub>14/2</sub> = (0.24 µh/FT) (300)
$L_{LOOP} = (6) (20)$	$L_{14/2} = (0.24) (300)$
$L_{LOOP} = 120 \mu$	L14/2 = 72 µh

2b: MEASURE INDUCTANCE OF LOOP AND LEAD-IN AT CONTROLLER. USE INSTRUMENT DESIGNED TO MEASURE LOOP CIRCUIT INDUCTANCE.

3: POWER INTERRUPTION:

LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:

AFTER THE AMPLIFIER HAS TUNED AND IS OPERATING, DISCONNECT POWER BY REMOVING FUSE OR HARNESS CONNECTOR. RETURN POWER TO THE AMPLIFIER AND CONFIRM IT RE-TUNES AUTOMATICALLY WITHOUT ANY MANUAL ADJUSTMENTS.

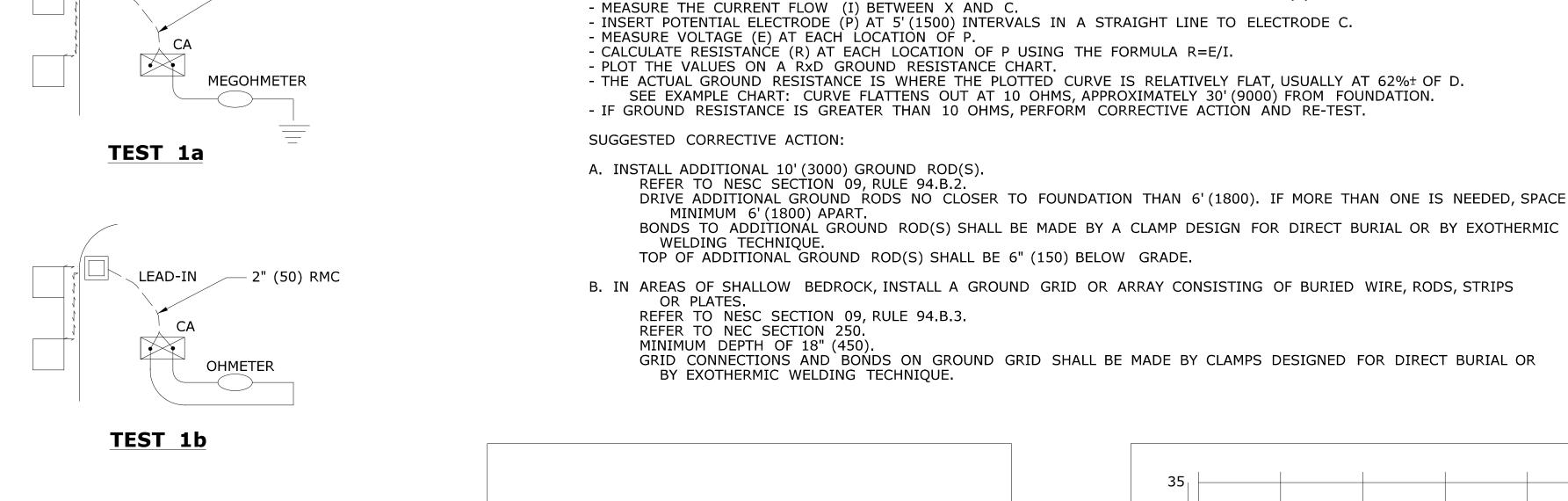
# **INDUCTIVE LOOP TEST PROCEDURE**

PIN	COLOR	FUNCTION
А	WHITE	110 VAC Neutral
В	BROWN	Output Relay Common (moving contact)
С	BLACK	110 VAC (Fused)
D	RED	Loop
Е	ORANGE	Loop
F	YELLOW	Output Relay Contact (Closes with moving contact
G	BLUE	Output Relay Contact (Opens with moving contact
н	GREEN	Chassis Ground
J	GREY	110 VAC Delay/Extend Override
Shell		Ground (shall be connected to pin H in the con

	SAW CUT	LOOP DETECTOR AL CONDUIT		DETECTOR AMPL	IFIER PIN DESI	GNATION
				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	DIMENSIONS ARE IN ENGLISH ('.") & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNDED - OVER 1" TO NEAREST 5 mm - UNDER 1" TO NEAREST 1 mm.	
2	1-2014	REVISED GROUND RESISTANCE N	OTES.	OF WORK WHICH WILL BE REQUIRED.	NOT TO SCALE	DEPARI
1	4-2012	MINOR REVISIONS.			NOT TO SCALL	
REV.	DATE	REVISION DESCR	RIPTION	Plotted Date: 1/7/2014		Filename: CTDOT_TR

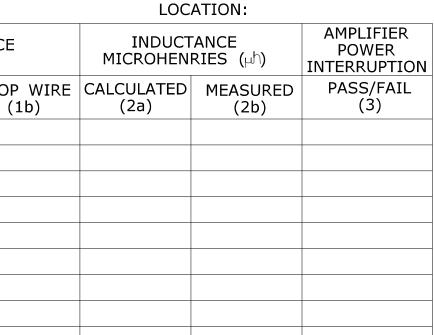
PROJECT: TOWN:

LOOP NUMBER		RESIST OHI	
NOMBER	то	GROUND (1a)	LOO
D1 FRONT			
D1 REAR			
D2A			
D2B			
D4A FRONT			
D4B REAR			
D5			
D6A			
D6B			

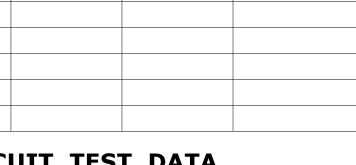


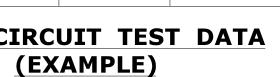
- 2" (50) RMC

LEAD-IN



# LOOP CIRCUIT TEST DATA (EXAMPLE)



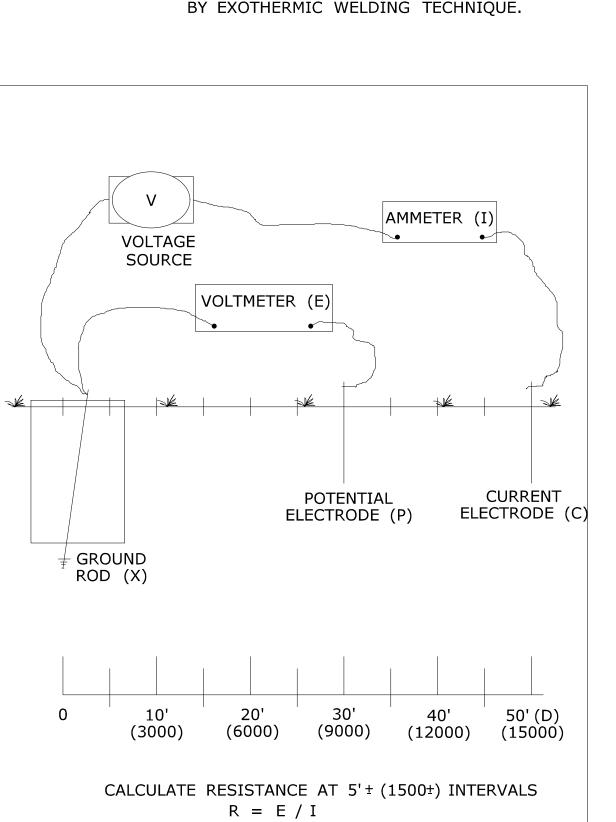


act when detecting vehicle) act when detecting vehicle)

nnector)

	-	 		
NAME/DATE/TIME:			STANDARD SHEE	
			JULANDARD SHEL	

STATE OF CONNECTICUT	SUBMITTED BY: Tracy L. Fozarty Tra 20 APPROVED BY:	NAME/DATE/TIME: acy L. Fogarty 14.01.07 16:11:26-05'00' NAME/DATE/TIME:	CTDOT STANDARD SHEET	STANI
ne: CTDOT_TRAFFIC_STD.DGN Model: TR-1000_01		narles S. Harlow 14.01.08 09:02:11-05'00'	OFFICE OF ENGINEERING	



**TEST PROCEDURE:** 

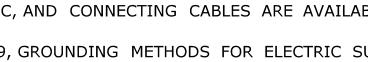
# **3 POINT GROUND RESISTANCE TEST CIRCUIT**

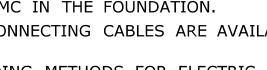
NOTES:

- 1. WHEN REQUESTED BY THE ENGINEER, MEASURE RESISTANCE-TO-GROUND OF GROUND ROD AT TRAFFIC CONTROL FOUNDATIONS. SEE FALL-OF-POTENTIAL METHOD. IF LESS THAN 10 ohms, INSTALL SUPPLEMENTAL ELECTRODES AS REQUIRED. NEC ARTICLE 250.
- 2. DURING THE TEST, THE GROUND ROD SHOULD NOT BE BONDED TO ANY RMC IN THE FOUNDATION.
- 3. THE VOLTAGE SOURCE, VOLTMETER, AMMETER, ELECTRODES P AND C, AND CONNECTING CABLES ARE AVAILABLE AS A SPECIALIZED TEST INSTRUMENT.
- 4. REFER TO NATIONAL ELECTRICAL SAFETY CODE (NESC) SECTION 09, GROUNDING METHODS FOR ELECTRIC SUPPLY AND COMMUNCATIONS FACILITIES.
- 5. REFER TO NATIONAL ELECTRICAL CODE (NEC) CHAPTER 2, ARTICLE 250, GROUNDING.

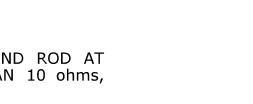
**GENERAL CLAUSES (TEST PROCEDURES)**  STANDARD SHEET NO .:

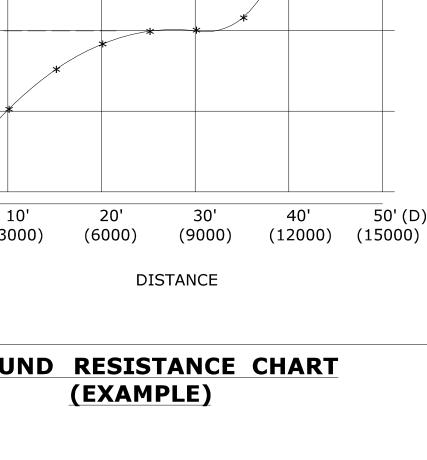
# **3 POINT FALL-OF-POTENTIAL GROUND RESISTANCE TEST**

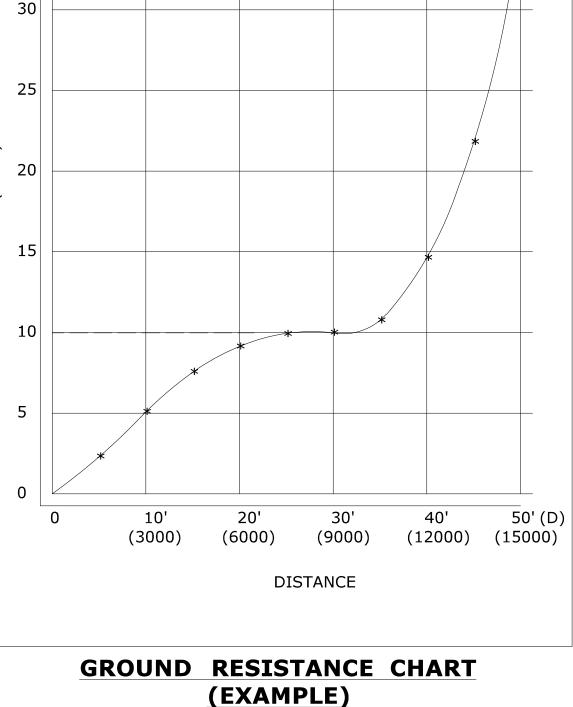












TOP OF ADDITIONAL GROUND ROD(S) SHALL BE 6" (150) BELOW GRADE. B. IN AREAS OF SHALLOW BEDROCK, INSTALL A GROUND GRID OR ARRAY CONSISTING OF BURIED WIRE, RODS, STRIPS

GRID CONNECTIONS AND BONDS ON GROUND GRID SHALL BE MADE BY CLAMPS DESIGNED FOR DIRECT BURIAL OR

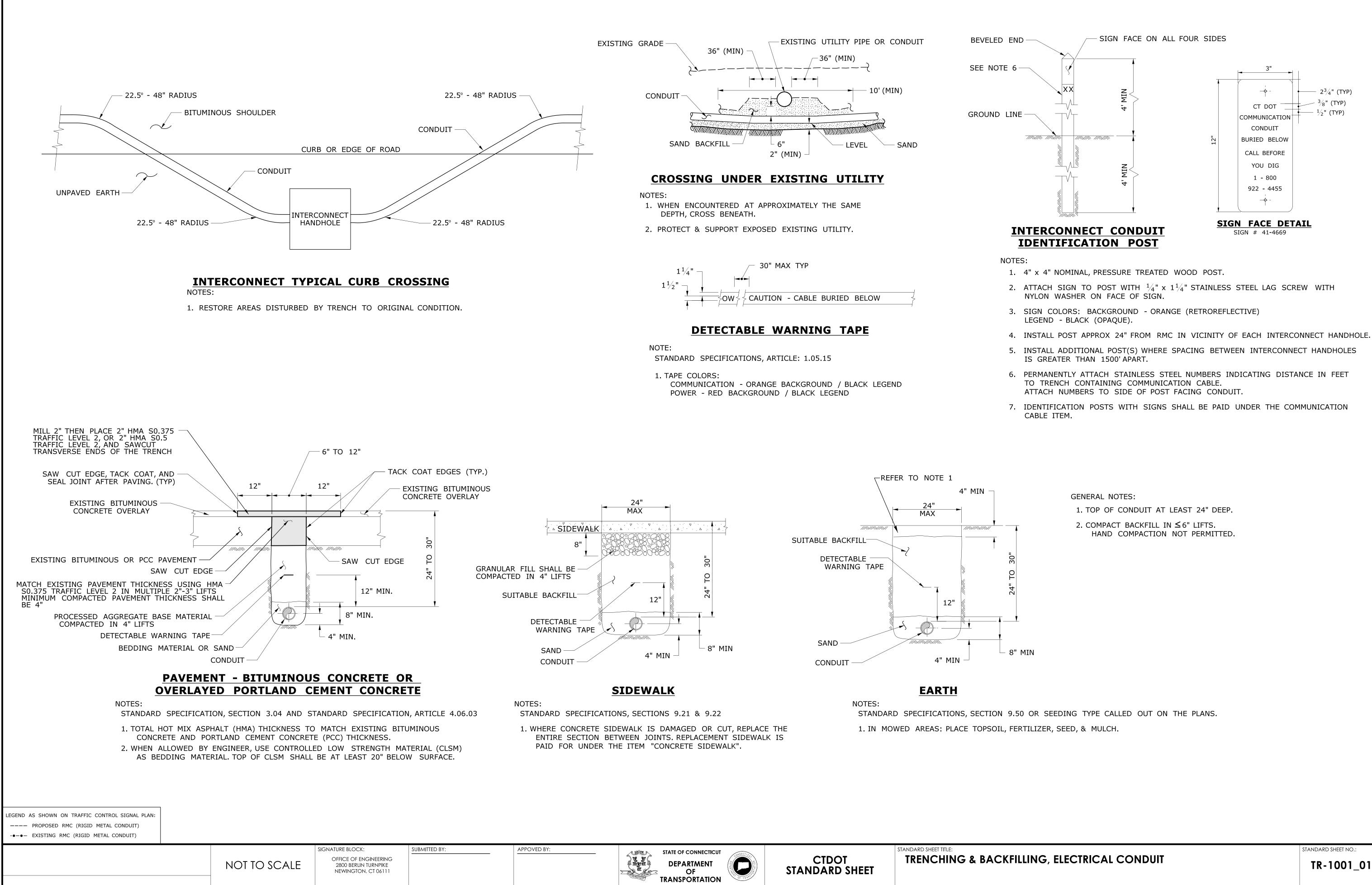
35

- THE ACTUAL GROUND RESISTANCE IS WHERE THE PLOTTED CURVE IS RELATIVELY FLAT, USUALLY AT 62% + OF D. SEE EXAMPLE CHART: CURVE FLATTENS OUT AT 10 OHMS, APPROXIMATELY 30' (9000) FROM FOUNDATION. - IF GROUND RESISTANCE IS GREATER THAN 10 OHMS, PERFORM CORRECTIVE ACTION AND RE-TEST.

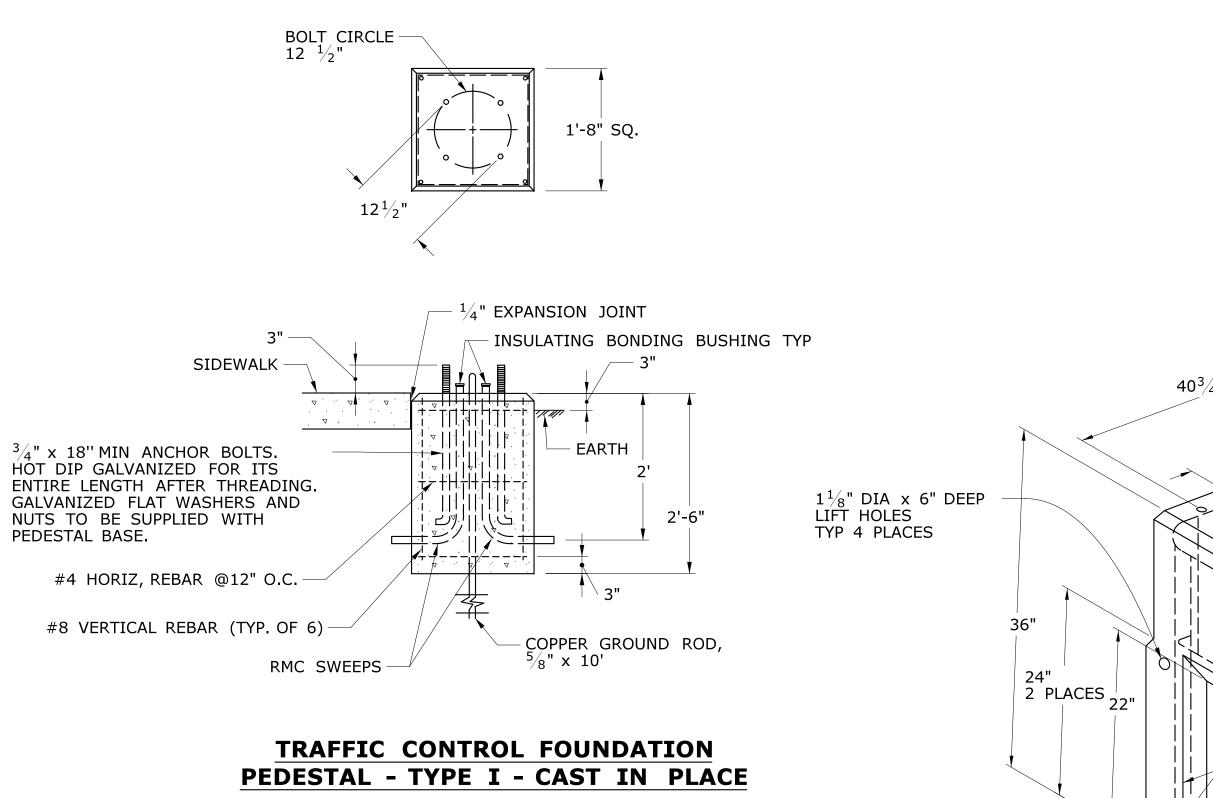
- CALCULATE RESISTANCE (R) AT EACH LOCATION OF P USING THE FORMULA R=E/I.

- INSERT ELECTRODE (C) A DISTANCE (D) FROM THE FOUNDATION. RECOMMEND A MINIMUM 50'. - CONNECT A VOLTAGE SOURCE AND AMMETER BETWEEN THE FOUNDATION GROUND ROD (X) AND C. - INSERT POTENTIAL ELECTRODE (P) AT 5' (1500) INTERVALS IN A STRAIGHT LINE TO ELECTRODE C.

TR-1000\_01



$\frac{\text{PICTORIAL}}{\text{SECTION A-A}}$	ORE
<sup>3</sup> / <sub>4</sub> " x 18" MIN ANCHOR BOLTS. HOT DIP GALVANIZED FOR ITS ENTIRE LENGTH AFTER THREADING. GALVANIZED FLAT WASHERS AND NUTS TO BE SUPPLIED WITH PEDESTAL BASE. 12- #3 REINFORCING STEEL BARS COPPER GROUND ROD, <sup>5</sup> / <sub>8</sub> " x 10'	
TRAFFIC CONTROL FOUNDATION PEDESTAL - TYPE I - PRECAST	
<ul> <li>TRAFFFIC CONTROL FOUNDATION PEDESTAL TYPE I NOTES:</li> <li>INSTALL FOUNDATION ON 12" OF COMPACTED GRANULAR FILL IN ACCORDANCE WITH SECTION LEVEL FOUNDATION WITH A PROJECTION OF 3" ABOVE FINISHED GRADE.</li> <li>INSTALL COPPER GROUND ROD: 5/8" X 10'</li> <li>PLACE NO. 6 CRUSHED STONE IN THE CENTER OPENINGS AFTER THE CONDUITS AND GROUND ROD HAVE BEEN INSTALLED.</li> <li>CONDUITS SHALL NOT PROJECT MORE THAN 2" ABOVE FOUNDATION.</li> <li>CONCRETE: (CAST-IN PLACE) PCC04460 IN ACCORDANCE WITH SECTION M.03</li> <li>CONCRETE: (PRECAST) PRC04060 IN ACCORDANCE WITH ARTICLE M.14.01</li> </ul>	N 2.13
INSTALL PRECAST OR CAST IN PLACE CONCRETE SIDEWALK ON CABINET DOOR SIDE OF CONTROLLER FOUNDATION. PITCH SIDEWALK <sup>1</sup> / <sub>4</sub> " PER FOOT AWAY FROM THE CONTROLLER FOUNDATION.	NI
REFER TO HIGHWAY STANDARD SHEET HW-921_01 FOR SIDEWALK CONSTRUCTIO	νn.
LEGEND AS SHOWN ON TRAFFIC CONTROL SIGNAL PLAN:   PROPOSED CONTROLLER   EXISTING CONTROLLER   PEDESTAL MOUNTING	
NOT TO SCALE SIGNATURE BLOCK: 2800 BERLIN TURNPIKE NEWINGTON, CT 06111	SUBMITTED BY:



7<sup>3</sup>⁄4" -

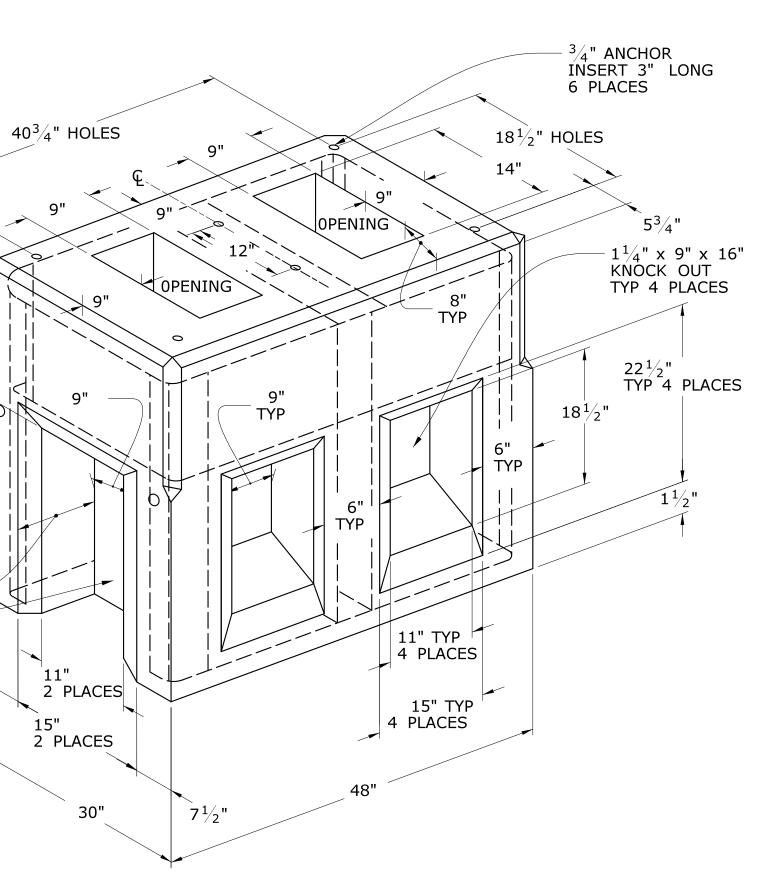
7<sup>1</sup>/2"

 $1^{1/_{4}}$ " x 9" x 21" KNOCK OUT TYP 2 PLACES

TRAFFFIC CONTROL FOUNDATION CONTROLLER TYPE IV NOTES:

INSTALL FOUNDATION ON 12" OF COMPACTED GRANULAR FILL IN ACCORDANCE WITH SECTION 2.13 LEVEL FOUNDATION WITH A PROJECTION OF 4" ABOVE FINISHED GRADE. INSTALL COPPER GROUND ROD: 5/8" x 10' PLACE NO. 6 CRUSHED STONE IN THE CENTER OPENINGS AFTER THE CONDUITS AND GROUND ROD HAVE BEEN INSTALLED. THE OPENINGS SHALL BE CAPPED WITH A 2" GROUT LEVEL WITH THE TOP OF THE FOUNDATION AND NEATLY FINISHED. THE GROUT SHALL CONFORM WITH THE REQUIREMENTS OF ARTICLE M.03.05. #4 REBAR 2" MIN COVER AROUND ALL OPENINGS, 3-#4 REBARS IN ALL CORNERS. CONDUITS SHALL NOT PROJECT MORE THAN 2" ABOVE FOUNDATION. CONCRETE: (PRECAST) PRC04060 IN ACCORDANCE WITH ARTICLE M.14.01

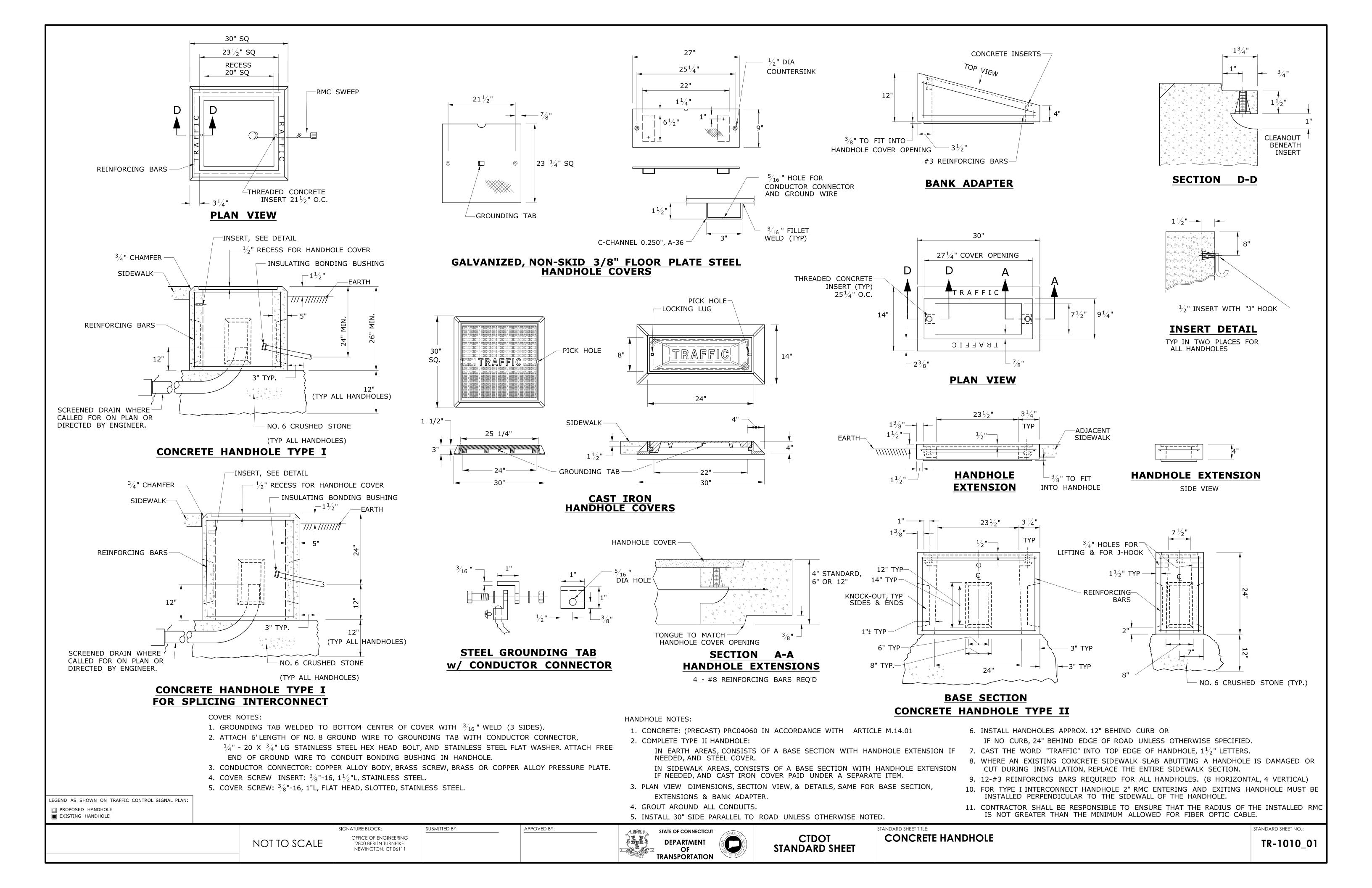


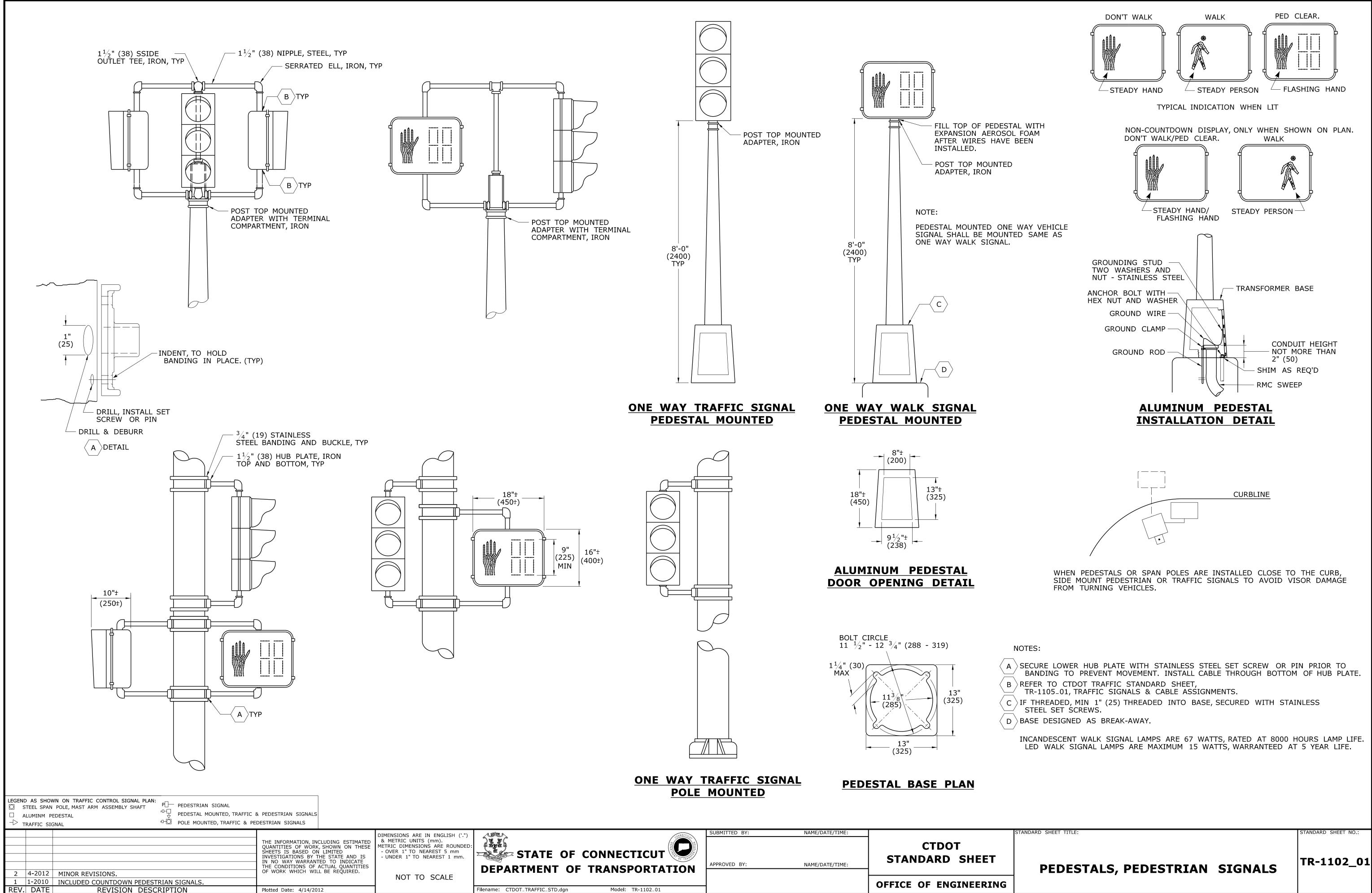


# TRAFFIC CONTROL FOUNDATION **CONTROLLER - TYPE IV - PRECAST**

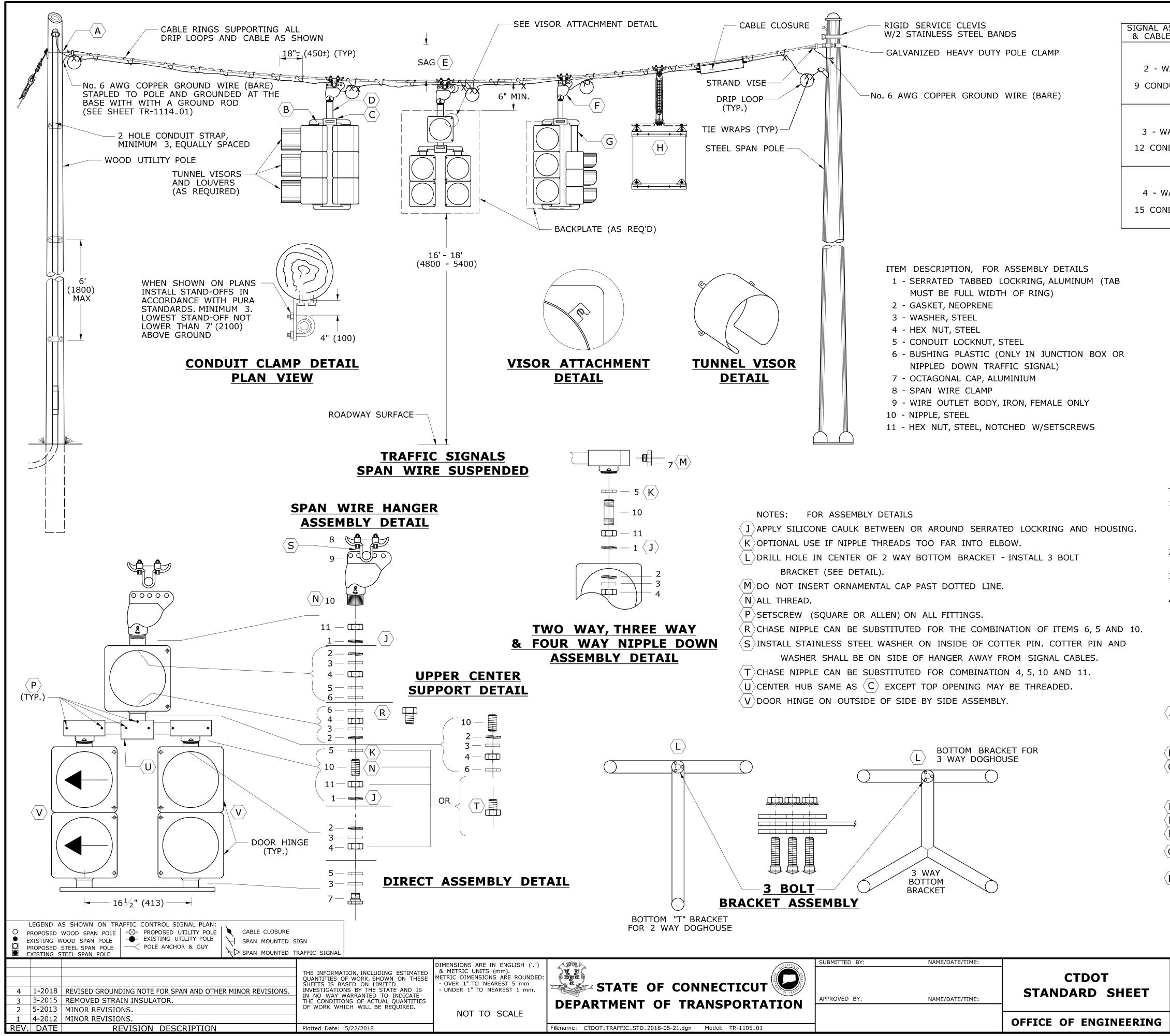
STANDARD SHEET NO.:

TR-1002\_01





STATE OF CONNECTICUT			CTDO STANDARD	-
DEPARTMENT OF TRANSPORTATION	APPROVED BY:	NAME/DATE/TIME:	STANDARD	SHL
			OFFICE OF ENG	TNEED



Filename:	CTDOT_TRAFFIC_STD_2018-05-21.dgn	Model:	TR-1105_01	

TRAFFIC SIGNAL CABLE COLOR ASSIGNMENTS						
ASSEMBLY _E USED	SIGNAL FUNCTION	ARTERY 1	ARTERY 2	SIDE STREET 1	SIDE STREET 2	
	RED	RED		BLACK		
	YELLOW	ORANGE		WHITE \ BLACK		
WAY	GREEN	GREEN		BLUE		
DUCTOR	SPARE	GREEN\BLACK		RED \ BLACK		
	NEUTRAL	WHITE				
	RED	RED	RED \ BLACK	BLACK		
	YELLOW	ORANGE	ORANGE \ BLACK	WHITE \ BLACK		
VAY	GREEN	GREEN	GREEN \ BLACK	BLUE		
NDUCTOR	SPARE	<b>BLUE\BLACK</b>	BLACK \ WHITE			
	NEUTRAL	WHITE				
	RED	RED	RED \ BLACK	BLACK	RED \ WHITE	
	YELLOW	ORANGE	ORANGE \ BLACK	WHITE \ BLACK	BLACK \ WHITE	
NAY	GREEN	GREEN	GREEN \ BLACK	BLUE	GREEN \ WHITE	
NDUCTOR	SPARE	BLUE\BLACK		BLUE \ WHITE		
	NEUTRAL	WHITE				

# PEDESTRIAN SIGNAL CABLE COLOR ASSIGNMENTS

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

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

TABLE NOTES:

1. INSTALL SEPARATE CABLE BETWEEN CLOSURE AND EACH TRAFFIC SIGNAL ASSEMBLY. WIRE EACH TRAFFIC SIGNAL SECTION SEPARATELY BACK TO CABLE CLOSURE. JUMPERS BETWEEN TERMINALS ARE NOT ALLOWED EXCEPT ON NEUTRAL CONDUCTORS.

2. WIRE ALL SIGNALS, SAME DIRECTION FROM CONTROLLER, SEPARATELY WITH CONDUCTORS IN 21 CONDUCTOR CABLE, EVEN IF INDICATIONS ARE IDENTICAL

3. CABLES THAT FEED PEDESTRIAN INDICATIONS, PUSH BUTTONS, AND DETECTORS BYPASS CABLE CLOSURE.

4. REFER TO STANDARD SHEET TR-1113\_01 FOR CABLE CLOSURE - TYPE A.

NOTES:

SERVICE CONDUCTORS: THW, THWN OR XHHW. INDIVIDUAL WIRES MAY BE USED IN LIEU OF MULTI-CONDUCTOR CABLE

ALL WORK ON UTILITY POLES MUST COMPLY WITH CURRENT PURA REGULATIONS AND NESC RULES.

 $\langle {f A} 
angle$  ATTACH SPAN AT LEAST 12" (300) BELOW LOWEST POWER COMPANY ATTACHMENT, AND AT LEAST 40" (1000) ABOVE HIGHEST COMMUNICATIONS ATTACHMENT, UNLESS OTHERWISE DIRECTED ON PLANS.

 $\langle \mathsf{B} 
angle$  elbow or "t" fitting must have notch for serrated tabbed lockring.

 $\langle \mathsf{C} 
angle$  TOP BRACKET CENTER HUB SHALL BE MIN 4" (100) ROUND AND 3" (75) DEEP OR EQUAL VOLUME. SERRATION CAST IN HUB OR TABBED OR SERRATED LOCKRING, TOP OPENING NOT THREADED.

- $\langle D \rangle$  NIPPLE LENGTH DEPENDS ON SPAN HEIGHT.
- $\langle \mathsf{E} 
  angle$  SAG OF SPAN TO BE 5%± LENGTH, UNLESS OTHERWISE ALLOWED BY ENGINEER.

 $\langle F \rangle$  FACE ALL ENTRANCE FITTINGS TOWARD CABLE CLOSURE.

 $\langle \mathsf{G} \rangle$  install extension nipple on top of signal housing so bottom of all signals ARE EVEN.

 $\langle\mathsf{H}
angle$  REFER TO TR-GS\_01 "SIGN FACE SHEET ALUMINUM, R-SERIES SIGNS TYPICAL DETAILS", AND TO TR-1114\_01 FOR SIGN HANGER ASSEMBLY.

MAXIMUM SIGN SIZE 36" X 36" (900 X 900). ALL STAINLESS STEEL HARDWARE.

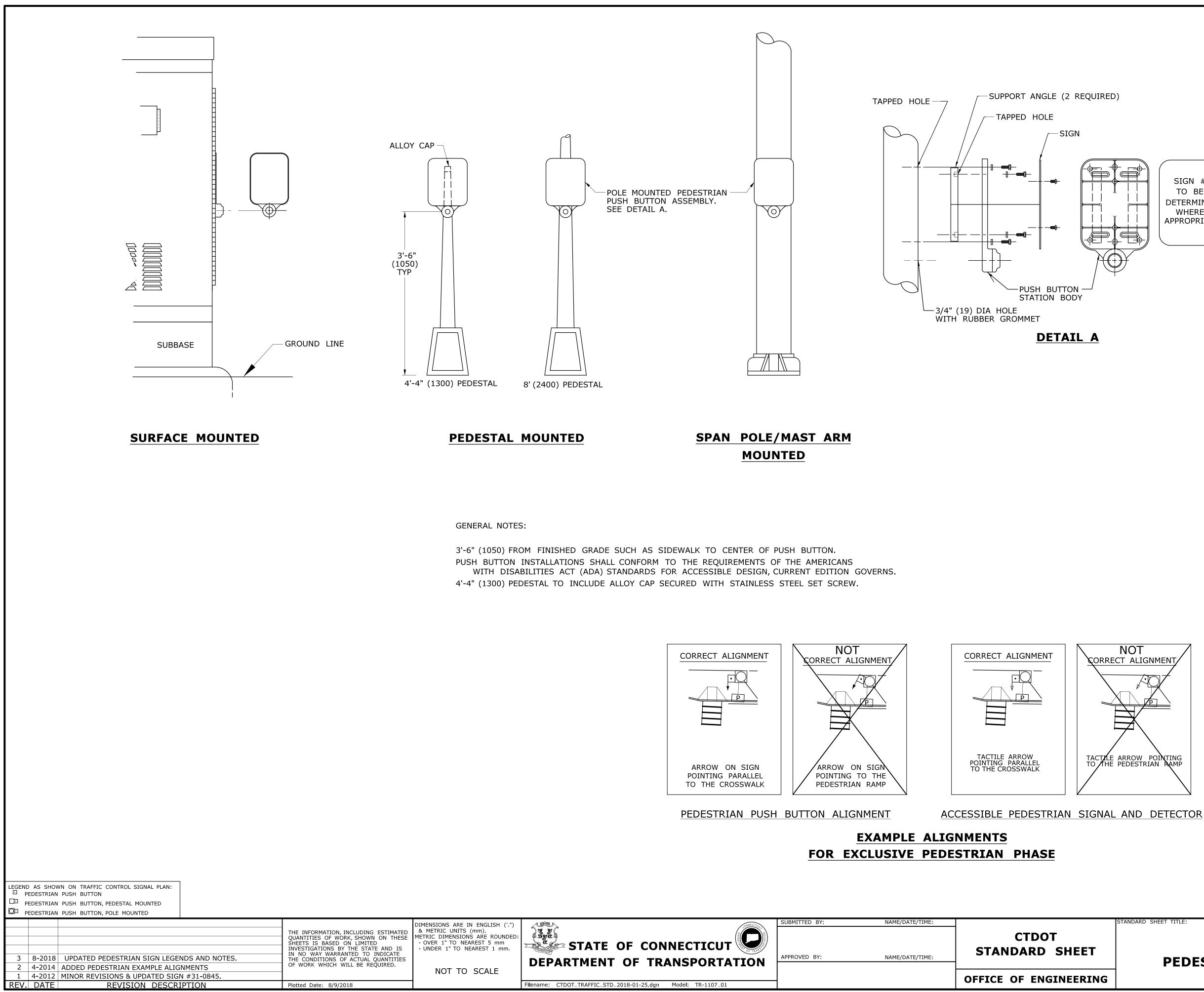
SECURE LOUVERS TO TUNNEL VISORS WITH 3 STAINLESS STEEL SCREWS.

ANDARD SHEET TITLE

FANDARD SHEET NO.:

# **TRAFFIC SIGNALS & CABLE ASSIGNMENTS**

TR-1105\_01



PEDESTRIAN	PUSH	BUTTONS

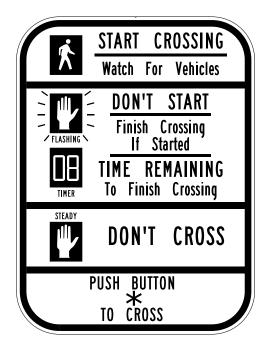
TR-1107\_01

TANDARD SHEET NO.:

FOR EXISTING PUSHBUTTON HOUSING, WITH 9" x 12" SIZE, USE SIGN NO. 31-0845.

FOR NEW PUSHBUTTON HOUSING, USE 9" x 15" SIGN NO. 31-0856.

★ USE APPROPRIATE ARROW UNLESS OTHERWISE NOTED ON PLAN.

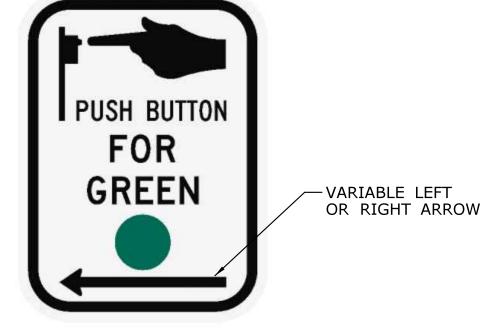


# FOR CROSSING WITH SIDE STREET GREEN

SIGN # 31-0835



SIGN # ΤΟ ΒΕ DETERMINED WHERE APPROPRIATE

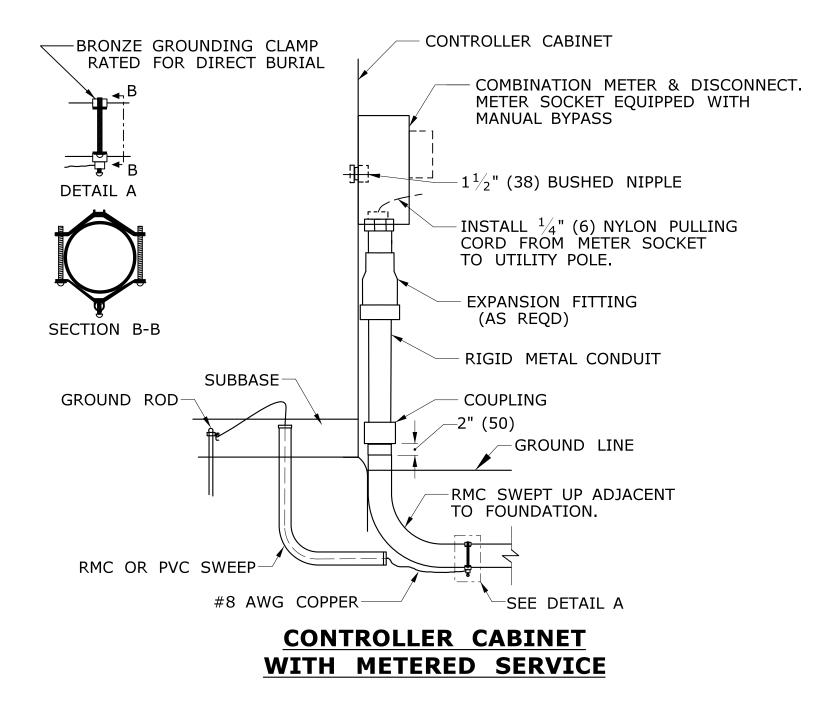


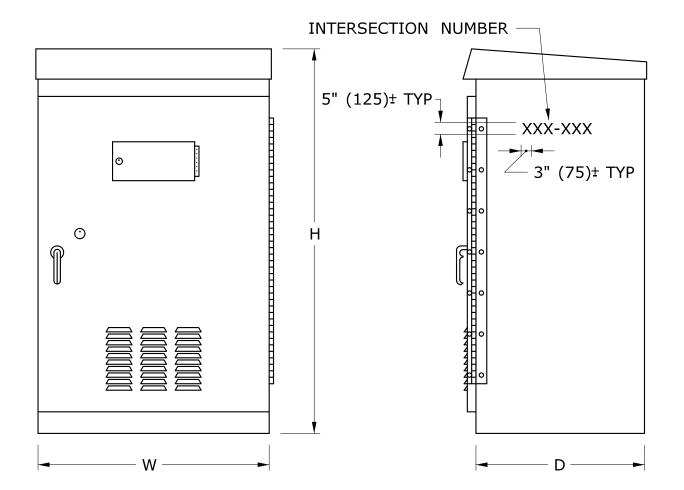
<image/> <text><text></text></text>					
	TE 1 <sup>1</sup> ⁄4" (3 INS (5) CO TE	RMINATION CABINET 1) BUSHED NIPPLE STALL <sup>3</sup> /16 " ONYLON PULLING PROFEM AUXILIARY RMINATION CABINET UTILITY POLE. CLAMP 1 <sup>1</sup> / <sub>4</sub> " (31) LIQUIDTIGHT FLEXIBLE METAL COUPLING 2" (50) 1 <sup>1</sup> / <sub>4</sub> " (31) RMC RM PROVIDE CABINET TYPICA	CONTROLLER MONITO DETECTOR AMPLIFIERS UCF LOAD SWITCHES TRANSFER RELAYS OUTPUT TERMINALS OUTPUT TERMINALS OUTPUT TERMINALS OUTPUT TERMINALS OUTPUT TERMINALS OUTPUT TERMINALS	IN SPECIFICATIO	NS (LOWER
AUXILIARY TERMINTION CABINET       DIMENSIONS ARE IN ENGLISH (*         Image: Constraint of the image: C	2 5-2013	REVISED SUBBASE. REVISED CABINET TYPES & MINOR	REVISIONS.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DIMENSIONS ARE IN ENGLISH ( & METRIC UNITS (mm). METRIC DIMENSIONS ARE ROUNI - OVER 1" TO NEAREST 5 mm - UNDER 1" TO NEAREST 1 mm NOT TO SCALE

REV. DATE

REVISION DESCRIPTION

Plotted Date: 5/15/2013





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

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

SUBMITTED BY:

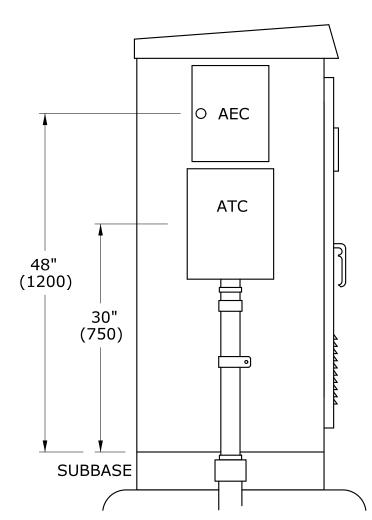


Model: TR-1108\_01

Filename: CTDOT\_TRAFFIC\_STD.dgn

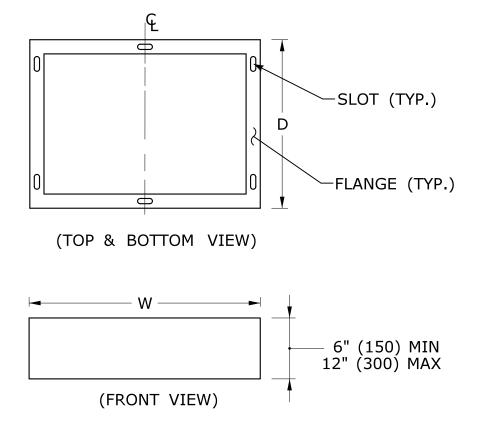
NOP AT AT 10 M	APPROVED BY:	NAME/DATE/TIME:	CTDOT STANDARD SHEET
	-		OFFICE OF ENGINEERING

NAME/DATE/TIME:



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

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



# SUBBASE

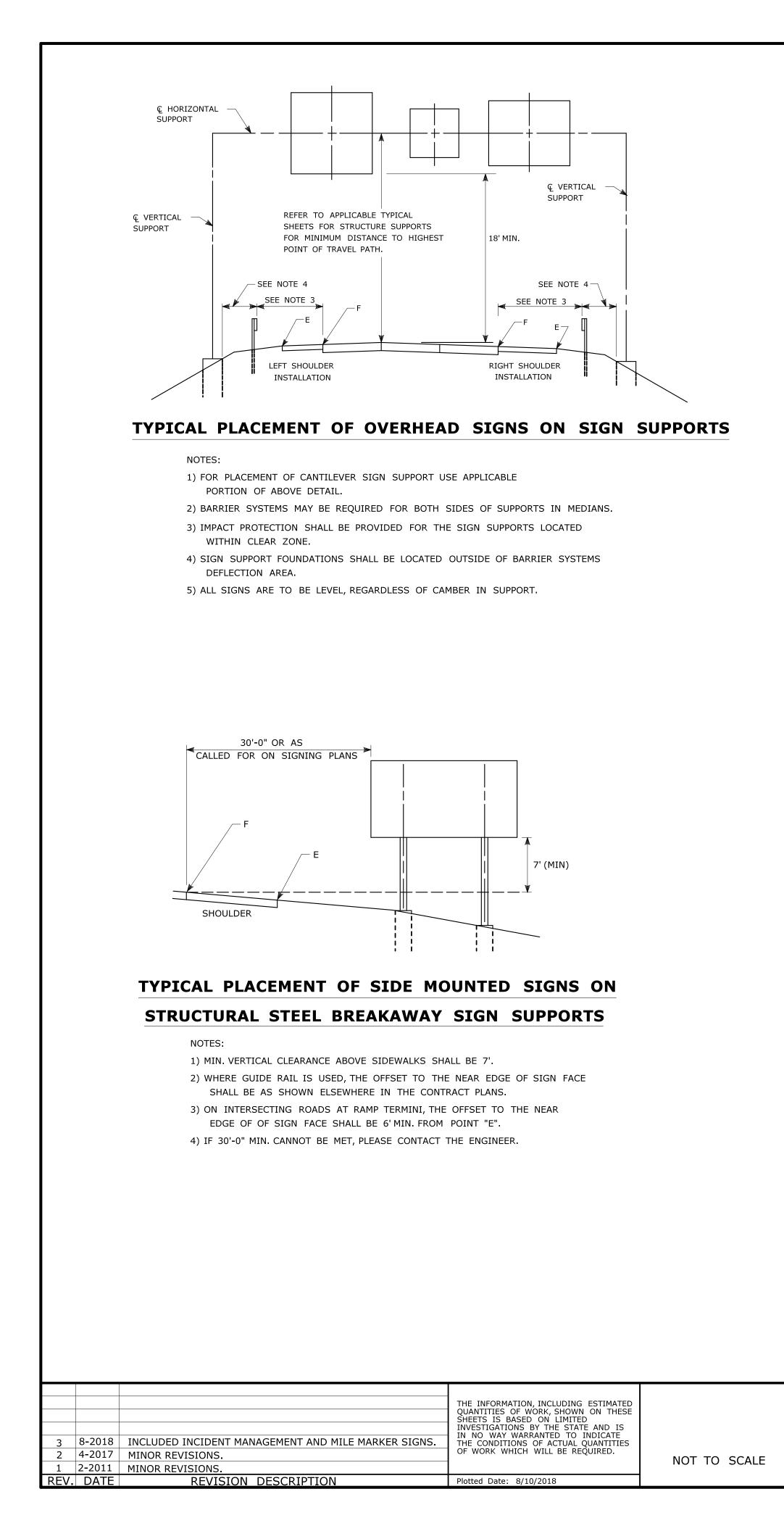
SLOT AND FLANGE DIMENSIONS TO BE PER MANUFACTURER.

ANDARD SHEET TITLE

TANDARD SHEET NO.:

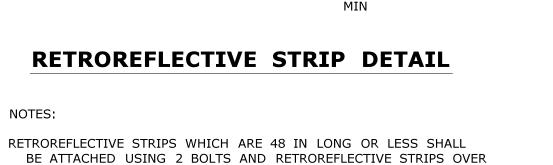
# CONTROLLERS

# TR-1108\_01



(MIECICO)	SUBMITTED BY:	NAME/DATE/TIME:	
DEPARTMENT OF TRANSPORTATION	APPROVED BY:	NAME/DATE/TIME:	CTDOT STANDARD SHEET
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					СТДОТ	
A BOA	OWNECTIC	SUBMITTED BY:	NAME/DATE/TIME:			
				5	A CLEAR PATH OF NOT	LESS TH
				(4)	IS LIMITED OR WHERE	



48 IN LONG SHALL BE ATTACHED USING 3 BOLTS AS SHOWN ON

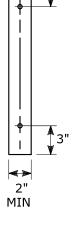
REFER TO STANDARD SHEET No. TR-1208\_02 "METAL SIGN POSTS

RETROREFLECTIVE STRIP COLOR SHALL MATCH THE BACKGROUND COLOR OF THE SIGN, EXCEPT THAT THE COLOR OF THE STRIP FOR "YIELD" AND

AND SIGN MOUNTING DETAILS" FOR MOUNTING DETAILS.

Model: TR-1208\_01

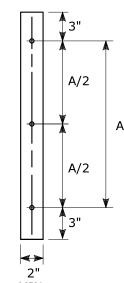
"DO NOT ENTER" SIGNS SHALL BE RED.



NOTES:

Filename: TR\_1208\_01\_1\_2018.dgn

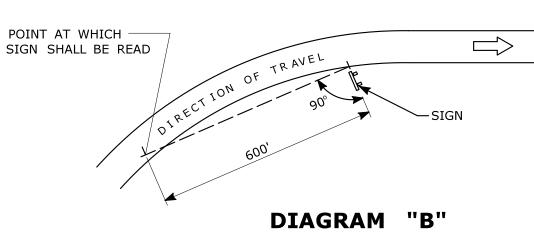
THE DETAILS ABOVE.



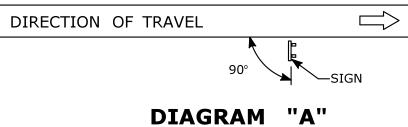
RETROREFLECTIVE STRIPS 48" LONG OR LESS:

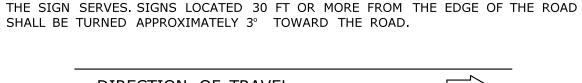
RETROREFLECTIVE STRIPS OVER 48" LONG:

# SIGN ORIENTATION DETAILS FOR SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS



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





THE HORIZONTAL AXIS IS AT AN ANGLE OF 90° WITH THE TRAFFIC LANE WHICH

FOR MAXIMUM EFFECTIVENESS, POSITION SIDE MOUNTED SIGNS ON STRUCTURAL STEEL BREAKAWAY SIGN SUPPORTS AS FOLLOWS:

ON A TANGENT SECTION, POSITION THE SIGN SO THE VERTICAL AXIS IS PLUMB AND

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OFFICE	OF	ENGINEERING

ALL SIGNS AN	D SHIELDS ON	DIRECTIONAL	ASSEMBLIES SH		
REFER TO STANDARD SHEET No. TR-1208_02 "METAL SIGN SIGN POSTS AND SIGN MOUNTING.					
			SIGN SUPPORT, E SIGN TO WIT		
PARKING SIGN	IS TYPICALLY U	SE 45° MOUNT	TING BRACKET.		
DIM."A" MIN SIGN HEIGHT	DIM."B" MIN LATERAL OFFSET (1)	DIM."C" MIN PLAQUE HEIGHT	ASSEMBLY LOO		
7' (2)	6' 12' ③	5'	SIGNS ON FRI ONE-DIRECTIO AND WRONG		
5'	2'	4'	<ul> <li>SIGNS IN RU</li> <li>DO NOT ENT</li> <li>DO NOT ENT</li> </ul>		
5'	2'	N/A	CHEVRON ALL FREEWAYS, EX     ONE-DIRECTION		

12' ③

2' 🕢

2' 🕢

2'

# **TYPICAL SIGN PLACEMENT DETAIL**

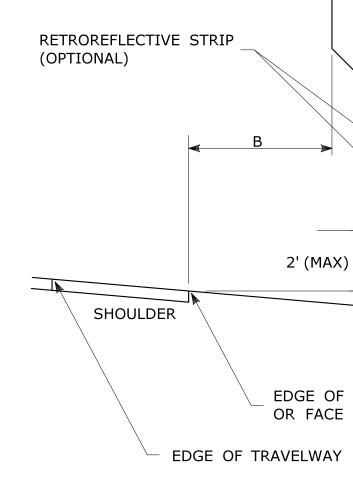
NOTES:

4'

4'

7'

 $\langle 3 \rangle$ 



# SIGN PLACEMENT AND **RETROREFLECTIVE STRIP DETAILS**

ANDARD SHEET TITLE

THAN 4 FT SHALL BE PROVIDED IN SIDEWALK AREAS.

(4) A LATERAL OFFSET OF AT LEAST 1 FT FROM THE FACE OF THE CURB MAY BE USED WHERE SIDEWALK WIDTH ING UTILITY POLES ARE CLOSE TO THE CURB.

6 FT FROM EDGE OF SHOULDER, WHEN SHOULDER IS OVER 6 FT WIDE 12 FT FROM EDGE OF TRAVELWAY, WHEN SHOULDER IS LESS THAN 6 FT WIDE.

 $\langle 2 \rangle$  8 FT MINIMUM HEIGHT REQUIRED IF A SUPPLEMENTAL PLAQUE IS SUBMOUNTED BELOW THE MAJOR SIGN.

(1) OR AS DIRECTED BY THE ENGINEER

N/A

4'

6'

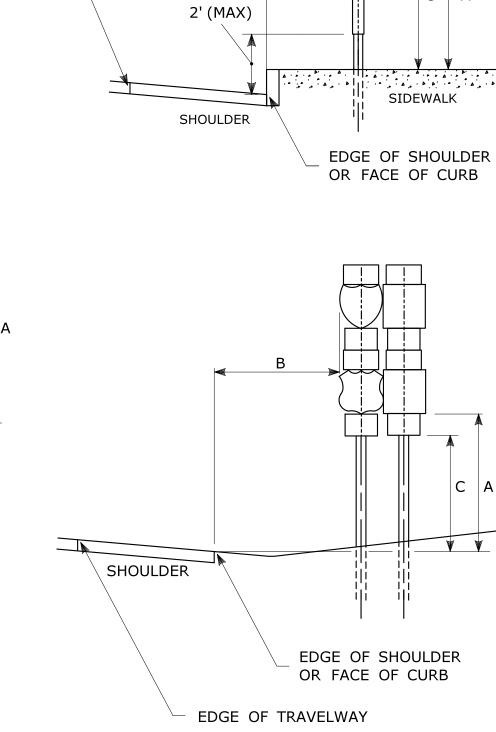
7'

UE	ASSEMBLY LOCATION
	SIGNS ON FREEWAYS AND EXPRESSWAYS EXCEPT CHEVRON ALIGNMENT SIGNS, ONE-DIRECTION LARGE ARROW SIGNS, DO NOT ENTER SIGNS, AND WRONG WAY SIGNS
	<ul> <li>SIGNS IN RURAL AREAS</li> <li>DO NOT ENTER AND WRONG WAY SIGNS ALONG EXIT RAMPS</li> <li>DO NOT ENTER AND WRONG WAY SIGNS ON LIMITED ACCESS HIGHWAYS</li> </ul>
	<ul> <li>CHEVRON ALIGNMENT SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMPS, AND IN RURAL AREAS</li> <li>ONE-DIRECTION LARGE ARROW SIGNS LOCATED ON FREEWAYS, EXPRESSWAYS, RAMPS, AND IN RURAL AREAS</li> </ul>
	INCIDENT MANAGEMENT SIGNS AND MILE POST MARKER ASSEMBLIES LOCATED ON FREEWAYS AND EXPRESSWAYS
	CENTRAL ISLANDS OF ROUNDABOUTS
	BUSINESS & RESIDENTIAL AREAS WHERE PARKING OR OTHER OBSTRUCTIONS LIMIT VISIBILITY
	SIDEWALKS 5

OF THE SIGN TO WITHIN 2 FT ABOVE THE EDGE OF THE ROADWAY.

1208\_02 "METAL SIGN POSTS AND SIGN MOUNTING DETAILS" FOR D ON SIGN SUPPORT, IT SHALL BE PLACED FOR THE FULL LENGTH OF

TIONAL ASSEMBLIES SHALL ABUT VERTICALLY.



RETROREFLECTIVE STRIP

- EDGE OF TRAVELWAY

B

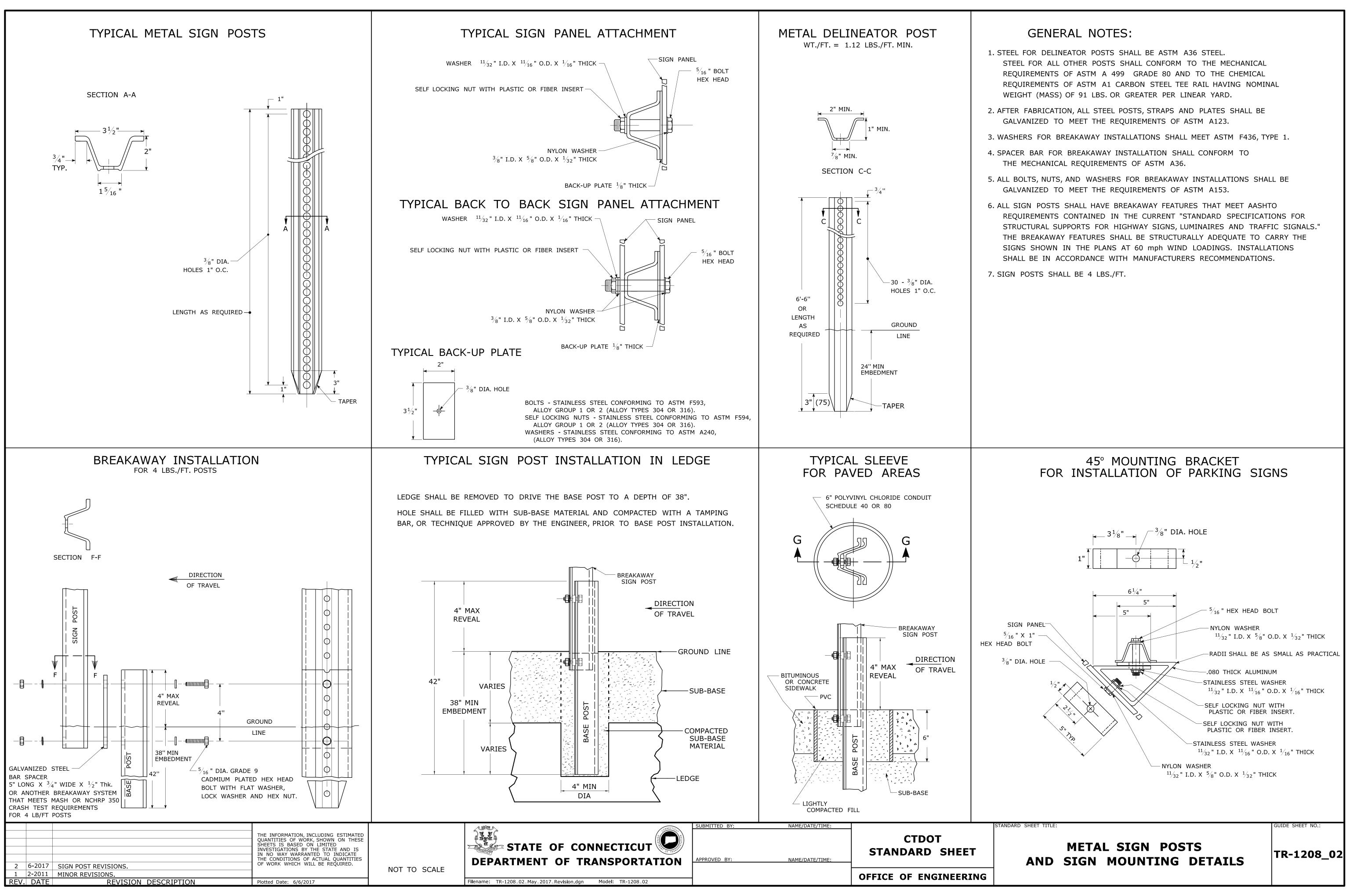
C

(OPTIONAL)

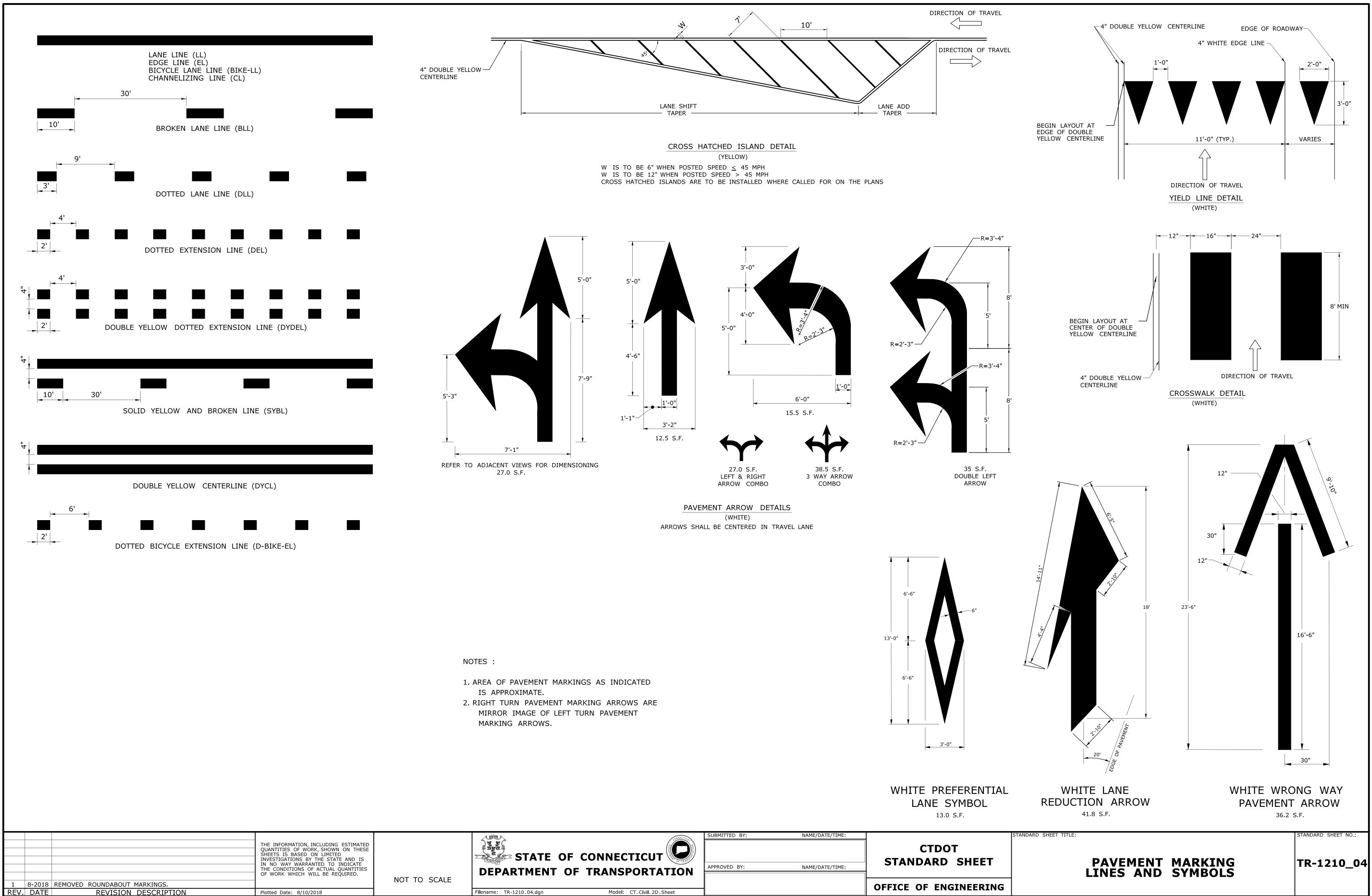
# С EDGE OF SHOULDER OR FACE OF CURB

TR-1208\_01

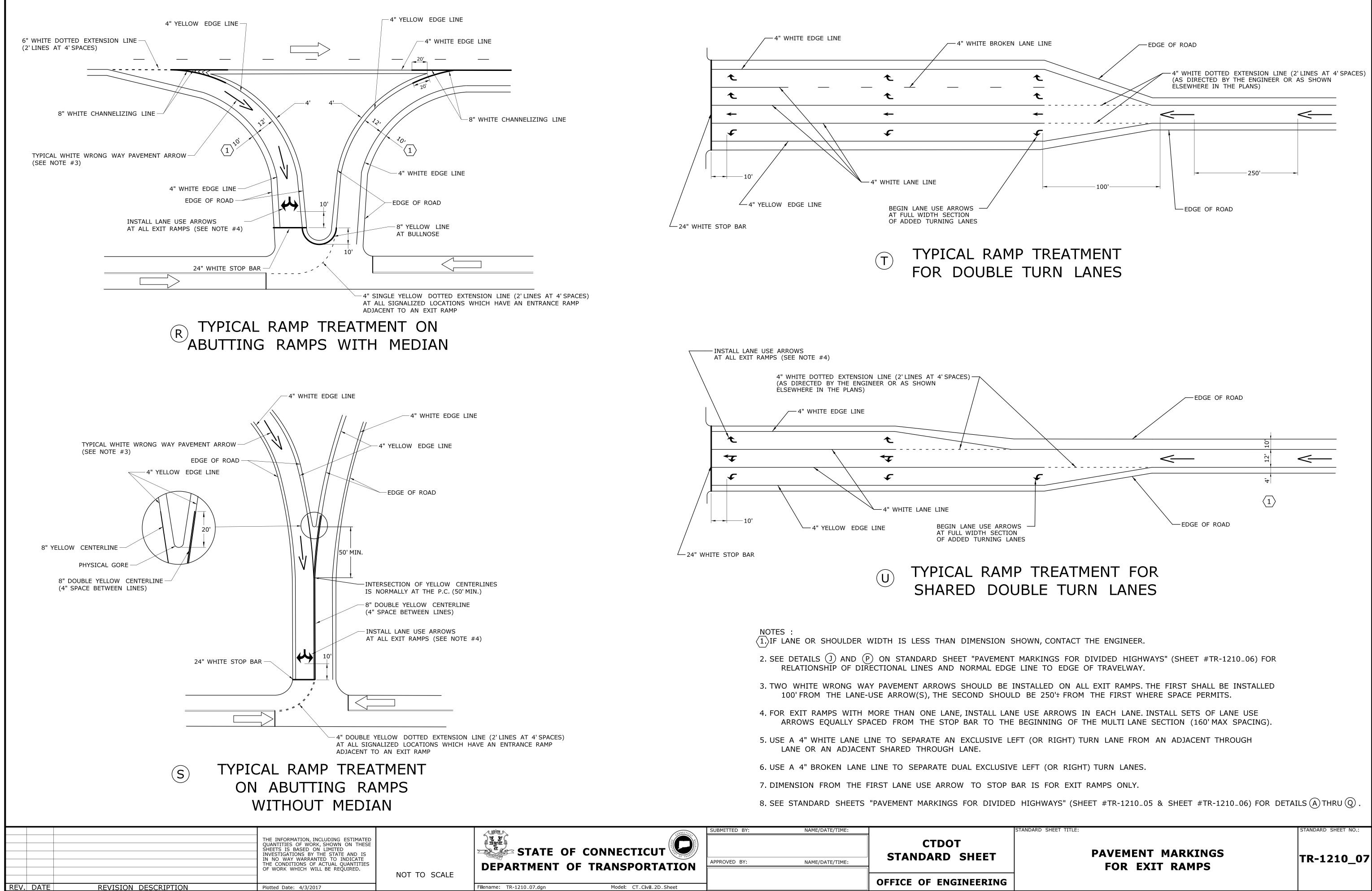
TANDARD SHEET NO.:







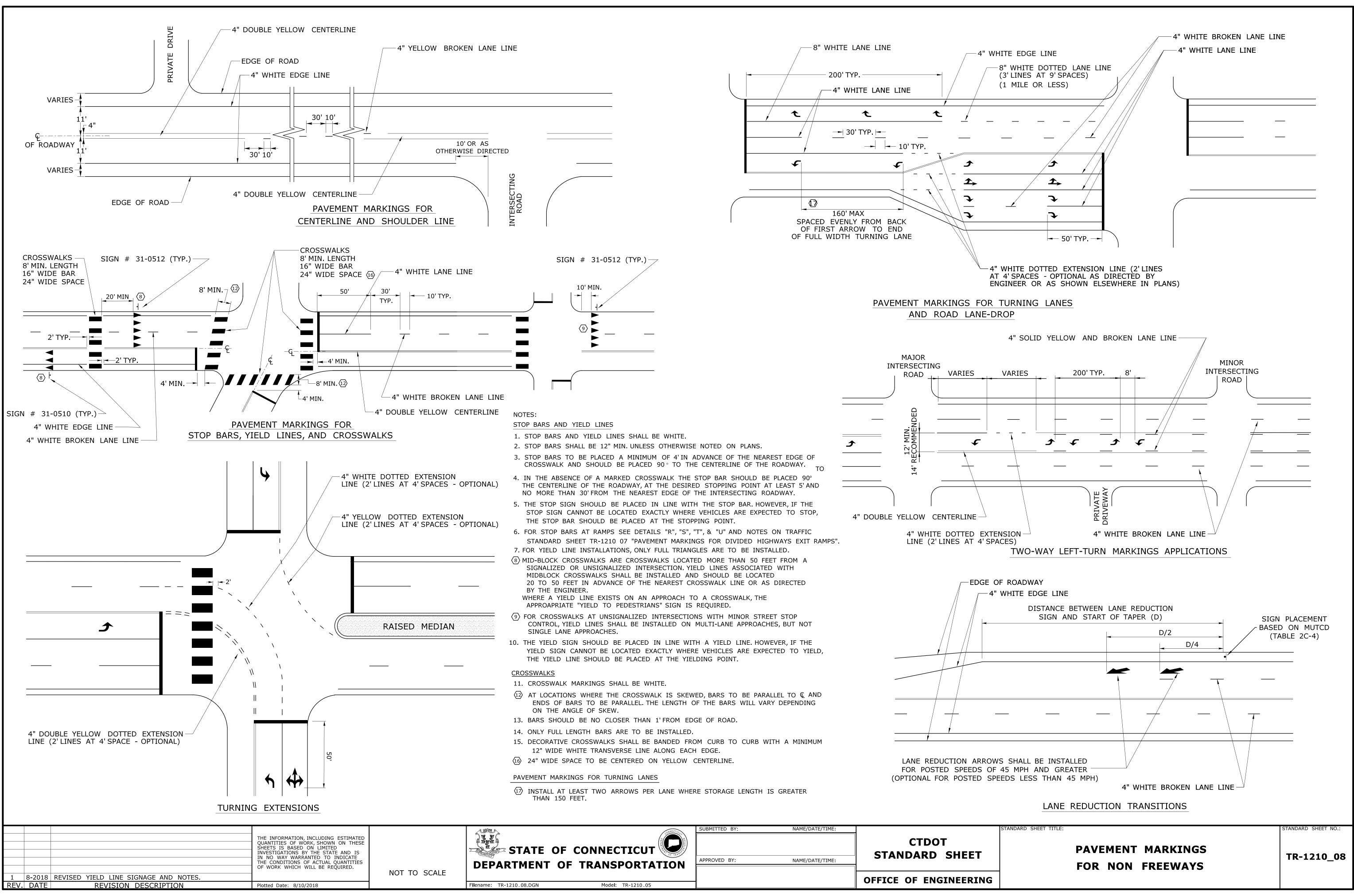
Filename: TR-1210\_04.dgn



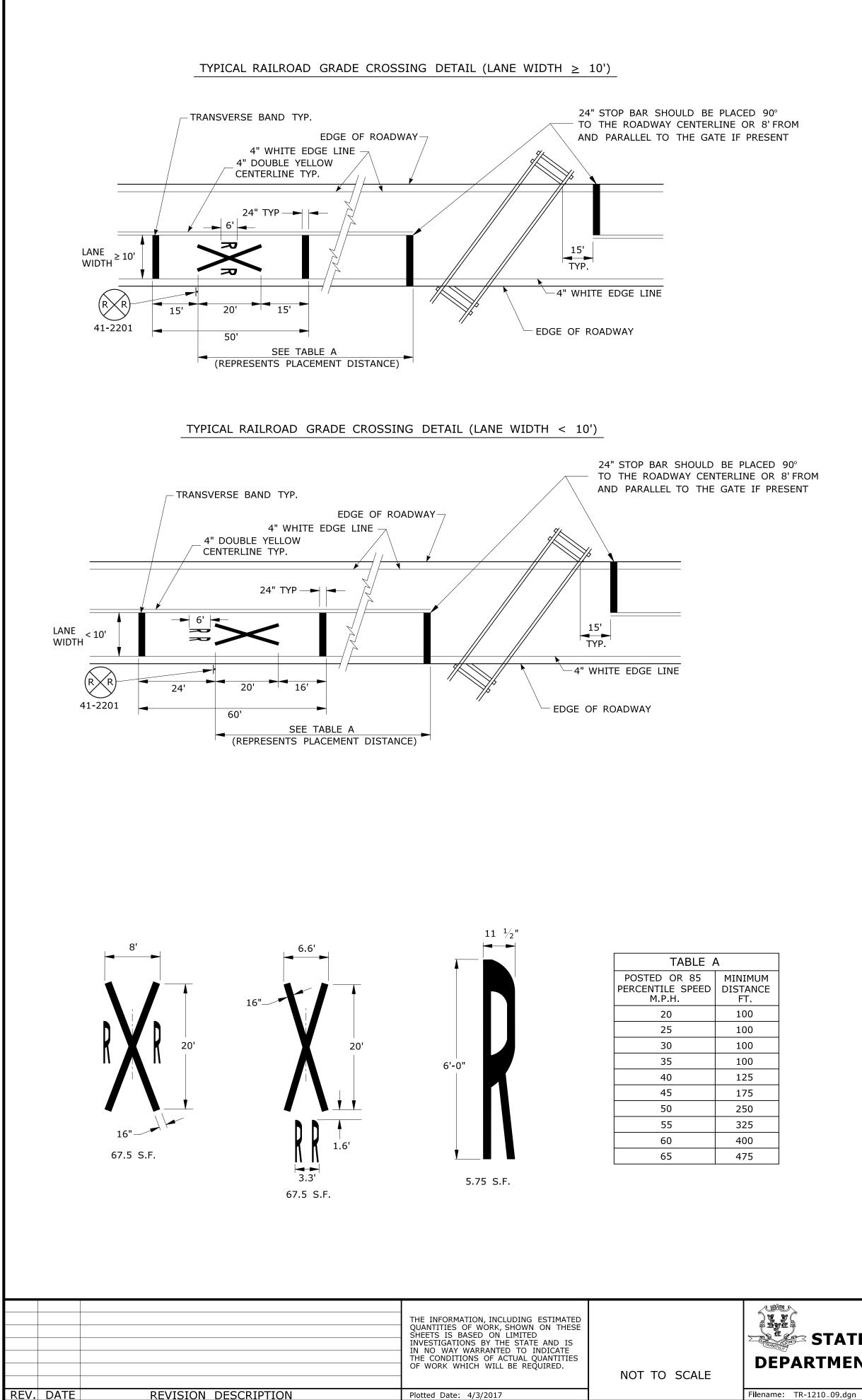
	APPROVED BY:	NAME/DATE/TIME:	CTDOT STANDARD SHEET
2D Sheet			OFFICE OF ENGINEERING

NNECTZO	SUBMITTED BY:	NAME/DATE/TIME:	
			CTDOT STANDARD SHEET
	APPROVED BY:	NAME/DATE/TIME:	STANDARD SHEET
RTATION			

PAVEM	ENT	MA	RKINGS
FOR	EXI.	T R	AMPS



 TD	1010		



# NOTES:

GENERAL:

1. AREA OF PAVEMENT MARKING SYMBOLS AS INDICATED IS APPROXIMATE.

2. REFER TO STANDARD SHEET TR-1210\_04 FOR PAVEMENT MARKING LINE DETAILS.

RAILROAD GRADE CROSSINGS:

- 3. RAILROAD MARKINGS SHALL BE WHITE.
- 4. ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD
- EXTEND ACROSS THE APPROACH LANES AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

PARKING STALLS:

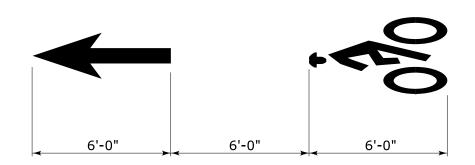
5. AUTOMOBILE ACCESSIBLE PARKING SPACES SHALL BE 15' WIDE INCLUDING 5' OF CROSSHATCH.

6 VAN ACCESSIBLE PARKING SPACES SHALL BE 16' WIDE INCLUDING 8' OF CROSSHATCH.

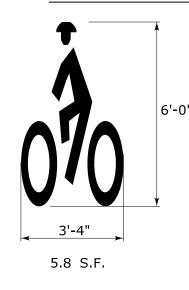
7. ACCESS AISLES FOR ANGLED VAN PARKING SPACES SHALL BE LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACE.

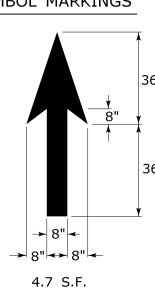
8. CROSS HATCHED ACCESS AISLES SHALL NOT BE SHARED BETWEEN PARKING SPACES.

TYPICAL LONGITUDINAL SPACING



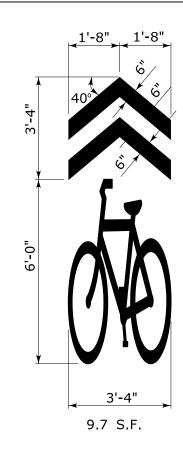
# BICYCLE LANE SYMBOL MARKINGS



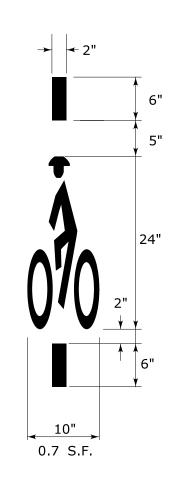


SHARED LANE SYMBOL MARKING

BICYCLE DETECTOR SYMBOL MARKING



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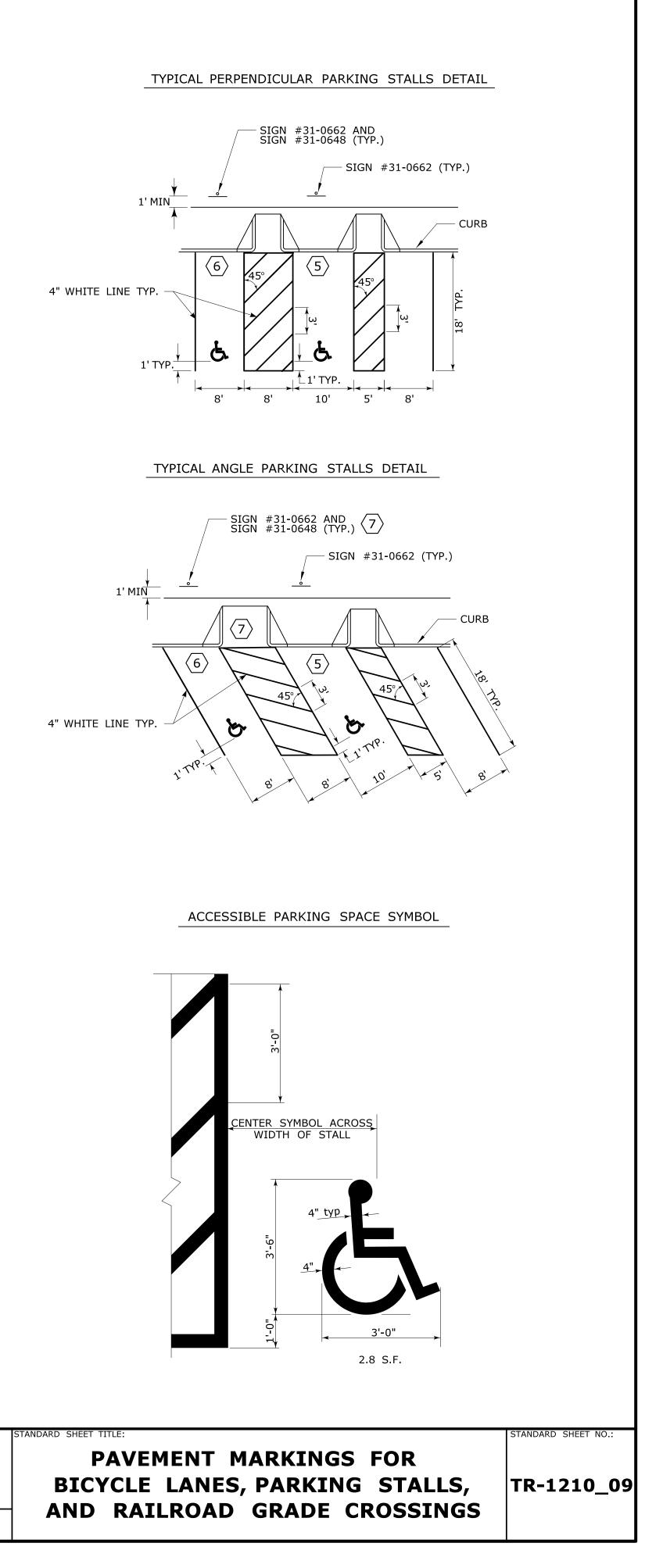


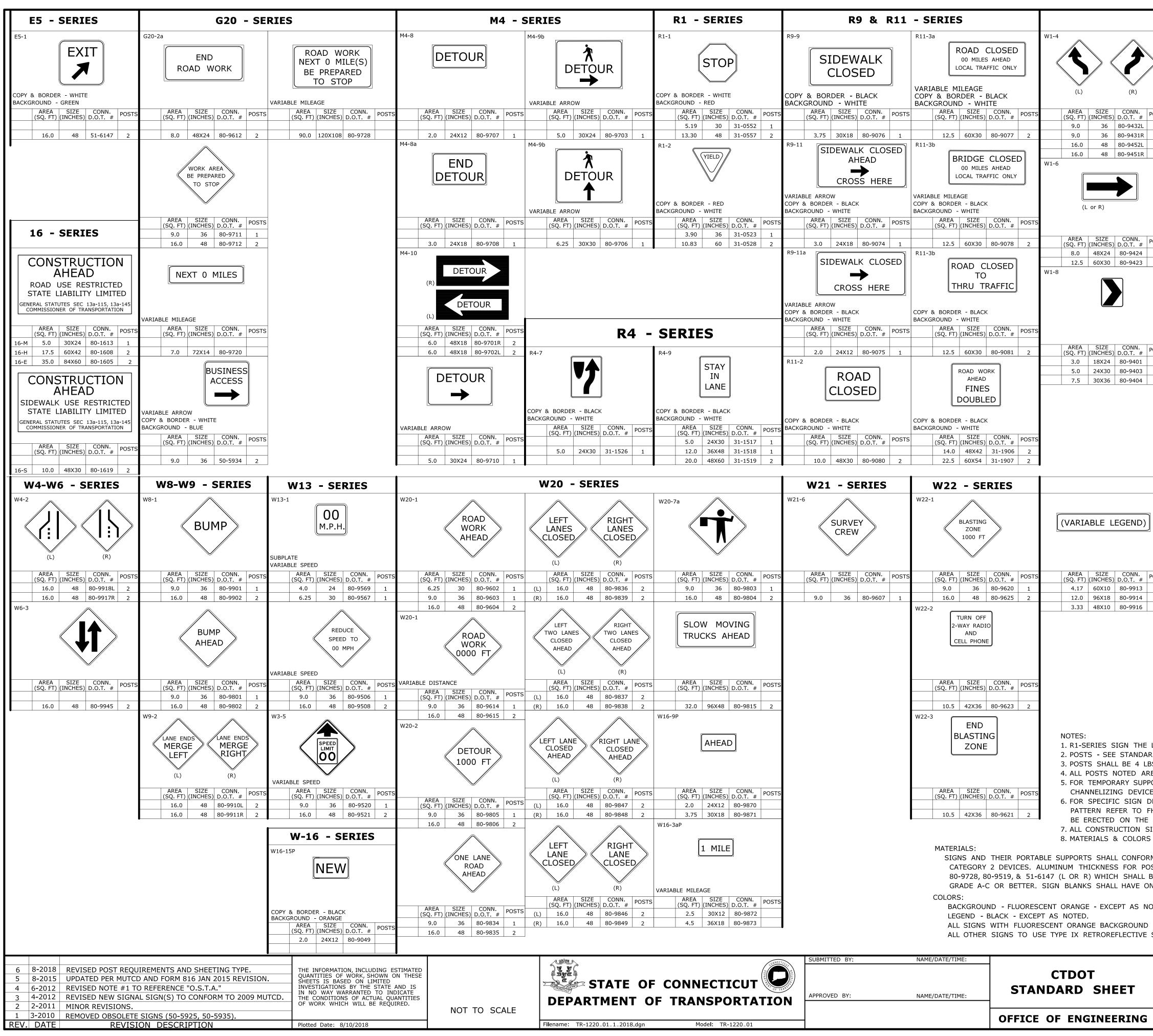
(BBC) STATE OF CONNECTICUT **DEPARTMENT OF TRANSPORTATION** 

Model: CT\_Civil\_2D\_Sheet

СТДОТ **STANDARD SHEET** APPROVED BY: NAME/DATE/TIME: OFFICE OF ENGINEERING

NAME/DATE/TIME:



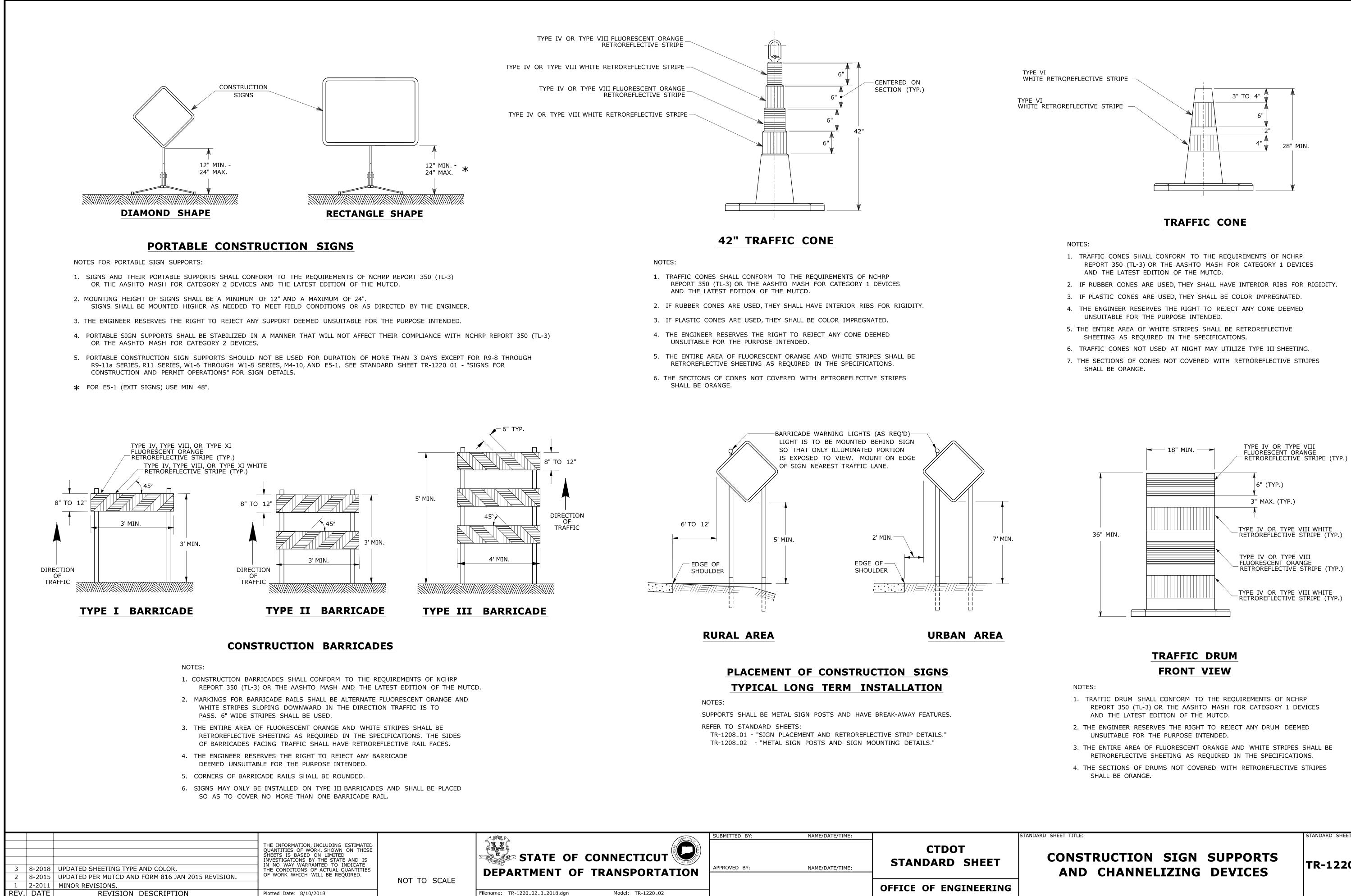


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	BOTH LANES SHIFT LEFT BOTH LANES SHIFT RIGHT		
POSTS	AREA SIZE CONN. (SQ. FT) (INCHES) D.O.T. # POSTS 16.0 48 80-9433L 2	(L) (R) ARROW & BO BACKGROUND AREA SIZE CONN. POSTS AREA	ED W/ WHITE BORDER RDER - BLACK - FLUORESCENT ORANGE SIZE CONN. ) (INCHES) D.O.T. # POSTS 36 80-9050 1
1 1 2 2	16.0     48     80-9433L     2       16.0     48     80-9435R     2       BOTH LANES SHIFT LEFT     BOTH LANES SHIFT RIGHT	25.0     60     80-9483L     2     9.0       25.0     60     80-9485R     2     16.0       W1-4c     W3-2     W3-2	36     80-9050     1       48     80-9051     2
	AREA SIZE CONN. (SQ. FT) (INCHES) D.O.T. # POSTS	(L) (R) ARROW & BO BACKGROUND AREA SIZE CONN. (SQ. FT) (INCHES) D.O.T. # POSTS AREA (SQ. FT)	ED W/ WHITE BORDER RDER - BLACK - FLUORESCENT ORANGE SIZE CONN. (INCHES) D.O.T. # POSTS
POSTS	16.0         48         80-9434L         2           16.0         48         80-9436R         2	25.0         60         80-9484L         2         9.0           25.0         60         80-9486R         2         16.0	36         80-9054         1           48         80-9055         2
2 2 POSTS 1 V	AREA       SIZE       CONN.       POSTS         (SQ. FT)       INCHES)       D.O.T. #       POSTS         25.0       60       80-9443L       2         25.0       60       80-9445R       2         V1-4b       V1-4b       V1-4b       V1-4b	AREA	E - YELLOW LE - GREEN ER - BLACK - FLUORESCENT ORANGE SIZE CONN. (INCHES) D.O.T. # POSTS 36 80-9052 1
	AREA (SQ. FT)         SIZE (INCHES)         CONN. D.O.T. #         POSTS           25.0         60         80-9444L         2           25.0         60         80-9446R         2		
	LANK OR ARIABLE LEGEND 9.0 36 80-9933 1 16.0 48 80-9934 2	AREA SIZE CONN. POSTS AREA	SIDE B SLOW
	USE SHOULDER	SHOULDER CLOSED AHEAD (1) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	
	(SQ. FT)         (INCHES)         D.O.T. #         POSTS           16.0         48         80-9956         2	(SQ. FT)         (INCHES)         D.O.T. #         POSTS           (1)         16.0         48         80-9957         2	
RD SHE S./FT. E FOR ORTS ES' ESIGN HWA P SAME IGNS T SHALI M TO ST MO 3E .125 NE COA	LONG TERM INSTALLATION. SEE SEE STANDARD SHEET TR-1220_03 , CONTACT CONN. D.O.T., DIVISION PUBLICATION "STANDARD HIGHWA POSTS, OR SPAN/MAST ARM MOU TO BE PAID FOR UNDER THE CON CONFORM TO STATE SPECIFICAT THE REQUIREMENTS OF NCHRP RI UNTED SIGNS SHALL BE .100" EX 5", PLYWOOD THICKNESS FOR POS	2 - "CONSTRUCTION SIGN SUPPORTS AND N OF TRAFFIC ENGINEERING. FOR BOLT HOLE Y SIGNS". SIGNS OF DIFFERENT DIMENSIONS NTED, MAY REQUIRE SPECIAL BOLT HOLE PATTE INSTRUCTION SIGNS ITEM IN THE CONTRACT. TIONS. EPORT 350 (TL-3) OR THE AASHTO MASH FOR CEPT SIGN #s. 80-1605, 80-9914, 80-9815, ST MOUNTED SIGNS SHALL BE 1/2" EXTERIOR PPLICATION OF RETROREFLECTIVE SHEETING &	ERNS.
SHEET	ING.		
STAND		CONSTRUCTION 4IT OPERATIONS	STANDARD SHEET NO.: TR-1220_01

W3 - SERIES

W1 - SERIES



FANDARD SHEET NO.:

TR-1220\_02