

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616 - WATER 1 MGAL

MAINTENANCE OF TRAFFIC SCHEME

THE CONTRACTOR SHALL DEVISE A SIMPLE MAINTENANCE OF TRAFFIC SCHEME FOR EACH LOCATION, WHICH SHALL BE STAMPED BY A PROFESSIONAL ENGINEER (SCHEME MAY BE A HAND SKETCH) AND PRESENT IT TO THE DISTRICT WORK ZONE SAFETY ENGINEER AND PROJECT ENGINEER FOR ACCEPTANCE AT LEAST TWO WEEKS PRIOR TO IMPLEMENTATION. IN GENERAL, THE METHODS FOR MAINTAINING TRAFFIC THAT THE CONTRACTOR PROPOSES TO USE FOR CONDUCTING THE WORK IN A SAFE AND EFFICIENT MANNER SHALL BE SUPPORTED BY HAND SKETCHES AS NECESSARY. THE MAINTENANCE OF TRAFFIC SCHEME SHALL BE IN CONFORMANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST REVISION, THE REFERENCED STANDARD CONSTRUCTION DRAWINGS, THE ATTACHED MAINTENANCE OF TRAFFIC SHEETS, AND THE SPECIFICATIONS. THE CONTRACTOR SHALL NOT COMMENCE WORK UNTIL THE MAINTENANCE OF TRAFFIC SCHEME HAS BEEN ACCEPTED.

IF DURING THE PROJECT, THE ENGINEER DETERMINES THAT THE APPROVED MAINTENANCE OF TRAFFIC PLAN IS NOT PERFORMING AS DESIRED, THE WORK SHALL BE SUSPENDED UNTIL THE PROBLEM IS RESOLVED TO THE SATISFACTION OF THE ENGINEER AND THE MAINTENANCE OF TRAFFIC PLAN IS REVISED ACCORDINGLY. ANY COSTS OR DELAYS INCURRED AS A RESULT OF THE FAILURE OF THE CONTRACTOR TO ADJUST THE MAINTENANCE OF TRAFFIC SCHEME TO THE SATISFACTION OF THE ENGINEER SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR. DURING NON-WORKING HOURS, ALL LANES SHALL BE IN FULL OPERATION WITH ALL TRAFFIC CONTROL SIGNS, EXCEPT OW-124 (ROAD CONSTRUCTION AHEAD) SIGNS, REMOVED OR COVERED AND ALL CHANNELIZING DEVICES REMOVED FROM THE PAVEMENT SURFACES. CHANNELIZING DEVICES MAY BE STORED OR DEPLOYED TEMPORARILY ADJACENT TO THE SHOULDER TO MINIMIZE THE NIGHTLY TRAFFIC CONTROL SET-UP TIME. PAYMENT FOR ALL THE ITEMS REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THESE REQUIREMENTS IS INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

EXTRA ADVANCE WARNING SIGNS

AN EXTRA ADVANCE WARNING SIGN GROUP CONSISTS OF TWO W20-1 (ROAD WORK AHEAD) SIGNS, TWO W20-5 (RIGHT/LEFT LANE CLOSED AHEAD) SIGNS WITH W16-3aP DISTANCE PLATES, AND TWO W3-H4b (WATCH FOR STOPPED TRAFFIC) SIGNS AND REQUIRED WARNING LIGHTS.

THE CONTRACTOR SHALL PROVIDE, ERECT, MAINTAIN AND REMOVE EXTRA ADVANCE WARNING SIGN GROUPS AS SHOWN ON TRAFFIC SCD MT-95.50 AT THE FOLLOWING DISTANCES IN ADVANCE OF THE LANE TAPERS WITH THE APPROPRIATE W16-3aP DISTANCE PLATES:

- 1) LOCATION 4: CUY-71-1640 (IR 71 OVER NORFOLK SOUTHERN RAILWAY) LANE TAPER STATION 922+50±, PHASE 1 (IR 71 NORTHBOUND); PROVIDE SIGN GROUPS AT 2 MILES, 3 MILES, AND 4 MILES.
- 2) LOCATION 4: CUY-71-1640 (IR 71 OVER NORFOLK SOUTHERN RAILWAY) LANE TAPER STATION 958+47±, PHASE 1 (IR 71 SOUTHBOUND); PROVIDE SIGN GROUPS AT 2 MILES, 3 MILES, AND 4 MILES.
- 3) LOCATION 4: CUY-71-1640 (IR 71 OVER NORFOLK SOUTHERN RAILWAY) LANE TAPER STATION 912+14.35±, PHASE 2 (IR 71 NORTHBOUND); PROVIDE SIGN GROUPS AT 2 MILES, 3 MILES, AND 4 MILES.
- 4) LOCATION 4: CUY-71-1640 (IR 71 OVER NORFOLK SOUTHERN RAILWAY) LANE TAPER STATION 955+30±, PHASE 2 (IR 71 SOUTHBOUND); PROVIDE SIGN GROUPS AT 2 MILES, 3 MILES, AND 4 MILES.
- 5) LOCATION 4: CUY-71-1640 (IR 71 OVER NORFOLK SOUTHERN RAILWAY) LANE TAPER STATION 942+89.35±, PHASE 3 (IR 71 NORTHBOUND); PROVIDE SIGN GROUPS AT 2 MILES, 3 MILES, AND 4 MILES.
- 6) LOCATION 4: CUY-71-1640 (IR 71 OVER NORFOLK SOUTHERN RAILWAY) LANE TAPER STATION 952+50±, PHASE 3 (IR 71 SOUTHBOUND); PROVIDE SIGN GROUPS AT 2 MILES, 3 MILES, AND 4 MILES.

THE CONTRACTOR SHALL HAVE AN ADDITIONAL EXTRA ADVANCE WARNING SIGN GROUP (6 SIGNS AND 2 DISTANCE PLATES) AVAILABLE FOR USE WHEN DIRECTED BY THE ENGINEER. THE DISTANCE PLATES FOR THIS GROUP SHALL BE ABLE TO BE MODIFIED IN THE FIELD TO SHOW APPROPRIATE WHOLE MILES TO THE LANE TAPER.)

PAYMENT FOR PROVIDING, ERECTING, MAINTAINING AND REMOVING EXTRA ADVANCE WARNING SIGN GROUPS SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC.

ITEM 614 - WORK ZONE PAVEMENT MARKING, MISC.: REMOVABLE, NON-REFLECTIVE PREFORMED BLACKOUT TAPE

THIS ITEM SHALL CONFORM TO CMS 614.11 WORK ZONE PAVEMENT MARKING REQUIREMENTS WITH THE EXCEPTION THAT THE MARKING MATERIAL SHALL BE BLACKOUT TAPE CONFORMING TO SUPPLEMENTAL SPECIFICATION 987. THE BLACKOUT TAPE SHALL BE MANUFACTURED BY A SUPPLIER ON ODOT'S QUALIFIED PRODUCTS LIST FOR THIS ITEM. PAYMENT FOR THIS ITEM SHALL BE MADE AT THE UNIT PRICE BID PER LINEAR FOOT FOR ITEM 614 - WORK ZONE PAVEMENT MARKING, MISC.: REMOVABLE, NON-REFLECTIVE PREFORMED BLACKOUT TAPE AND SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO FURNISH, INSTALL, MAINTAIN, AND REMOVE THIS ITEM.

THE CONTRACTOR SHALL INSTALL A SINGLE CONTINUOUS PIECE OF BLACKOUT TAPE TO COVER THE EXISTING LONGITUDINAL AND TRANSVERSE PAVEMENT MARKING AS INDICATED IN THE PLANS.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED TO BE USED AS DIRECTED BY THE ENGINEER TO COVER UP PORTIONS OF THE EXISTING SHARED LANE MARKING WHERE THE EXISTING SHARED LANE MARKING IS IN CONFLICT WITH THE MOT MARKING.

LOCATION 2: CUY-42-1457 (US 42 [PEARL ROAD] OVER NS RAILWAY/CSX RAILWAY/BIG CREEK)
ITEM 614 - WORK ZONE PAVEMENT MARKING MISC.: REMOVABLE, NON-REFLECTIVE PREFORMED BLACKOUT TAPE 200 FT

ITEM 621 - RAISED PAVEMENT MARKERS REMOVED, AS PER PLAN

THIS NOTE APPLIES TO THE FOLLOWING LOCATION:

LOCATION 4: CUY-071-1640 (IR 71 OVER NORFOLK SOUTHERN RAILWAY)

THIS ITEM SHALL CONSIST OF REMOVING THE EXISTING RAISED PAVEMENT MARKER REFLECTORS FROM THE EXISTING RAISED PAVEMENT MARKERS PRIOR TO MAINTENANCE OF TRAFFIC PHASE 1.

ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED TO REMOVE THE EXISTING RAISED PAVEMENT MARKER REFLECTORS SHALL BE INCLUDED WITH ITEM 621 - RAISED PAVEMENT MARKER REMOVED, AS PER PLAN.

ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. THE PCMS SHALL BE DELINEATED IN ACCORDANCE WITH CMS 614.03.

PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF CMS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.


LOCATION 2: CUY-42-1457 (US 42 [PEARL ROAD] OVER NS RAILWAY/CSX RAILWAY/BIG CREEK)
ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN (ASSUMING 4 PCMS SIGNS FOR 1 MONTH) 4 SNMT
LOCATION 4: CUY-71-1640 (IR 71 OVER NORFOLK SOUTHERN RAILWAY)
ITEM 614 - PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN (ASSUMING 4 PCMS SIGNS FOR 1 MONTH) 6 SNMT



1	7/12/21	REMOVE NOTE

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STATION		SIDE	614							642						
			WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I MILE	WORK ZONE EDGE LINE, CLASS I, 4", 740.06, TYPE I MILE	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 740.06, TYPE I FT	WORK ZONE DOTTED LINE, CLASS I, 4", 740.06, TYPE I FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I FT	WORK ZONE CROSSWALK LINE, CLASS I, 740.06, TYPE I FT	WORK ZONE ARROW, CLASS I, 740.06, TYPE I EACH	WORK ZONE PAVEMENT MARKING, MISC.: REMOVABLE, NON-REFLECTIVE, PERFORMED BLACKOUT TAPE FT	EDGE LINE, 4", TYPE I WHITE MILE	LANE LINE, 4", TYPE I MILE	CENTER LINE, TYPE I MILE	STOP LINE, TYPE I FT	CROSSWALK LINE, TYPE I FT	SHARED LANE MARKING, TYPE I EACH
FROM	TO															
LOCATION 2: PRE-PHASE 1																
10+15.11	10+57.66	LT												88.00		
28+65.93	29+05.54	LT												71.00		
31+44.25	31+70.48	RT												50.00		
31+80.18	32+00.17	LT/RT												116.00		
LOCATION 2: PHASE 1 BLACKOUT TAPE																
11+32.00	28+65.35	LT							2178.35							
WORK ZONE PAVEMENT MARKING																
9+98.37	10+14.62	LT/RT							244.00							
10+11.27	11+32.00	LT				121.00										
11+32.00		LT					11.00									
11+34.00	28+76.76	LT	1742.76	3485.52												
28+76.76	29+17.00	LT				84.00										
29+17.00	30+82.00	LT			165.00											
29+40.00	30+60.00	LT						6								
29+60.00		RT						2								
LOCATION 2: PHASE 2 BLACKOUT TAPE																
11+05.35	29+03.19	RT							2247.84							
WORK ZONE PAVEMENT MARKING																
8+65.00	9+85.20	RT							6							
8+88.50	9+93.50	RT			105.00											
9+98.37	10+14.62	LT/RT							244.00							
10+11.65	11+35.00	RT				126.00										
11+35.00		RT					11.00									
11+37.00	28+77.00	RT	1740.00	3480.00												
28+77.00	29+17.00	RT/LT				87.00										
29+17.00	30+82.00	LT			165.00											
29+40.00	30+60.00	LT						6								
LOCATION 2: POST PHASE 2																
PERMANENT PAVEMENT MARKING																
10+01.46	10+11.51	LT/RT												124.00		
11+32.00	28+77.00	LT/RT								3490.00	3490.00	1745.00	36.00		18	
TOTALS			3482.76	6965.52	435.00	418.00	22.00	488.00	20	4426.19						
CONVERT TO MILES			0.66	1.32												
TOTALS CARRIED TO GENERAL SUMMARY			0.66	1.32	435	418	22	488	20	4427						

 7/12/21 REMOVE SIGNS, ITEMS AND QUANTITIES

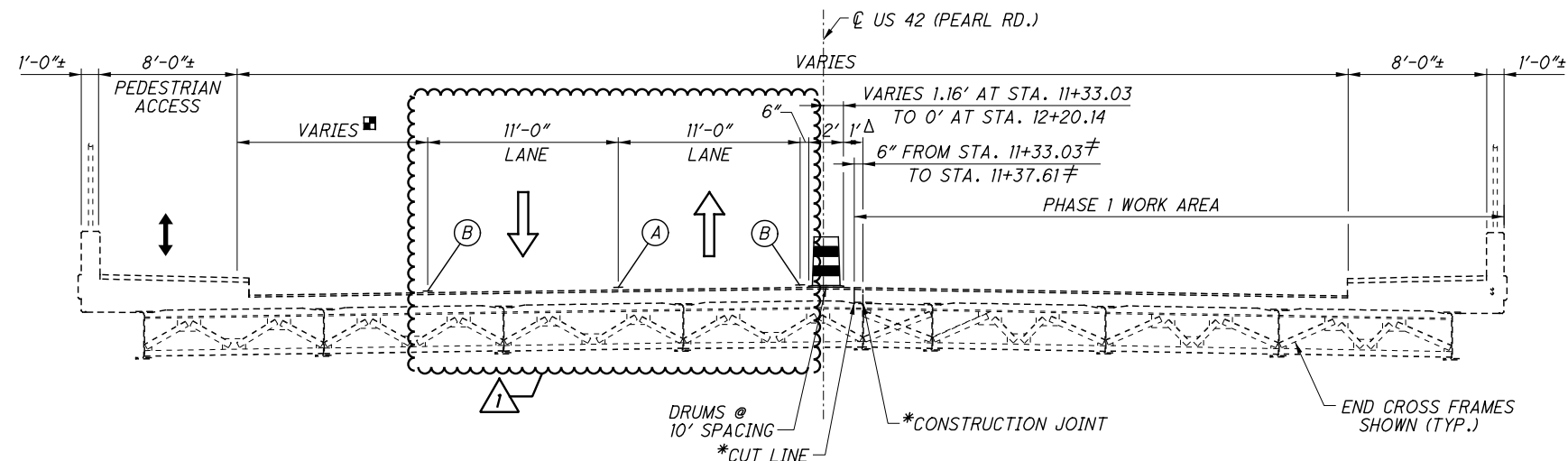
MAINTENANCE OF TRAFFIC SUBSUMMARY
LOCATION 2: CUY-042-1457

CUY-071-16.40/ VAR REPAIR
PID NO. 111603

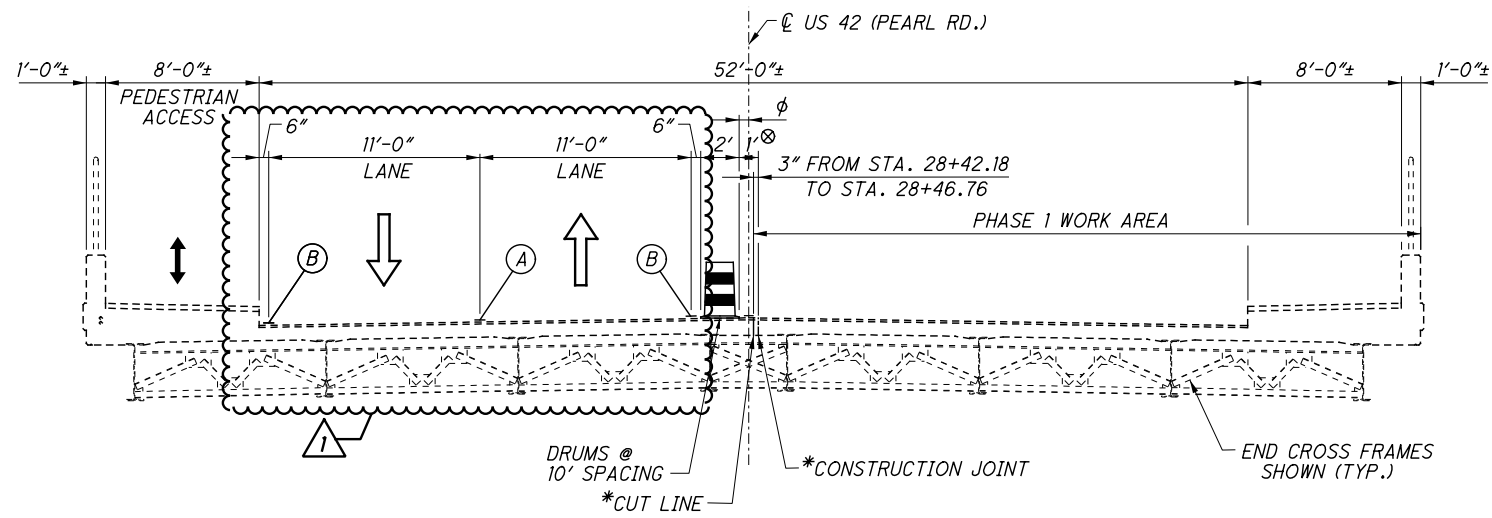
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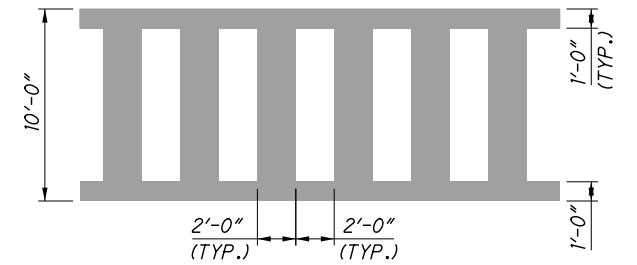
MAINTENANCE OF TRAFFIC TYPICAL SECTION A-A - PHASE 1
BRIDGE NO. CUY-042-1457 (US 42 [PEARL RD.] OVER NORFOLK SOUTHERN RAILWAY)
 STA. 11+32.83 TO STA. 12+20.14



MAINTENANCE OF TRAFFIC TYPICAL SECTION B-B - PHASE 1
BRIDGE NO. CUY-042-1457 (US 42 [PEARL RD.] OVER NORFOLK SOUTHERN RAILWAY)
 STA. 12+20.14 TO STA. 28+46.76

- LEGEND**
- ➔ DIRECTION OF TRAVEL
 - * AT WORK AREAS ONLY
 - ≠ STATIONING AT CUT LINE
 - △ VARIES 1.18' AT STA. 11+32.83 TO 1.05' AT STA. 11+37.44
 - ◻ VARIES 10.31' AT STA. 11+32.83 TO 0.5' AT STA. 12+20.14
 - φ VARIES 0' AT STA. 12+20.14 TO 1' AT STA. 12+70.39
1' FROM STA. 12+70.39 TO STA. 28+46.76
 - ⊗ 1' FROM STA. 28+42.18 TO STA. 28+46.76

- MOT PAVEMENT MARKING LEGEND**
- (A) ITEM 614 - WORK ZONE CENTER LINE (DOUBLE, SOLID)
 - (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)



WORK ZONE CROSSWALK MARKING DETAIL
 (LONGITUDINAL AND TRANSVERSE LINES)



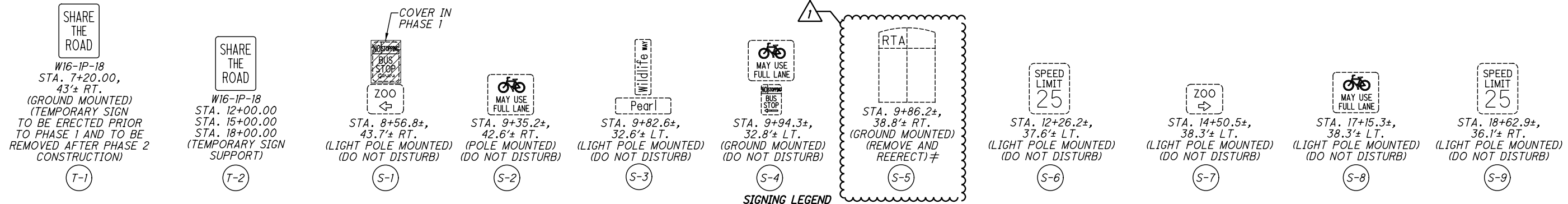
FINAL CROSSWALK MARKING DETAIL
 (LONGITUDINAL LINES ONLY)

NOTES:

1. DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS AND SHOULD BE USED FOR INFORMATIONAL PURPOSES ONLY.

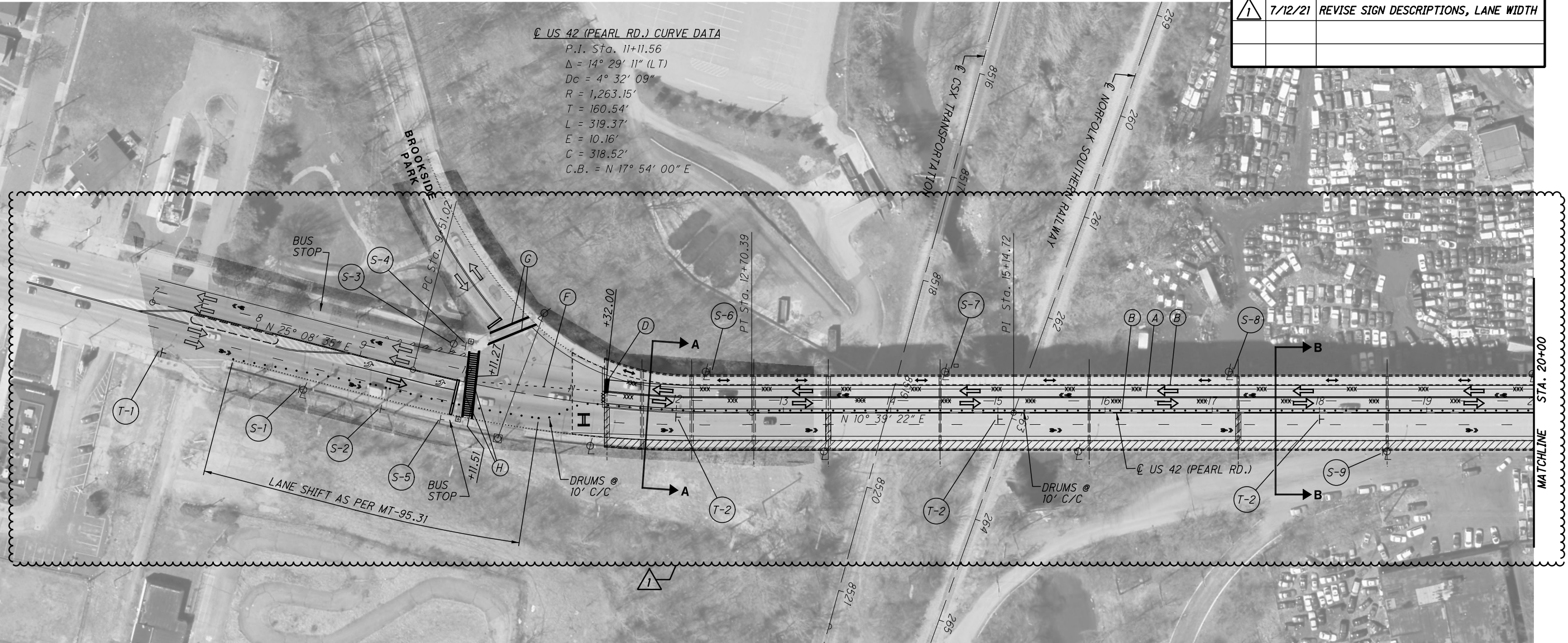
1	7/12/21	REVISE LANE AND OFFSET WIDTHS

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US 42 (PEARL RD.) CURVE DATA
P.I. Sta. 11+11.56
Δ = 14° 29' 11" (LT)
Dc = 4° 32' 09"
R = 1,263.15'
T = 160.54'
L = 319.37'
E = 10.16'
C = 318.52'
C.B. = N 17° 54' 00" E

1	7/12/21	REVISE SIGN DESCRIPTIONS, LANE WIDTH












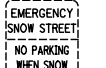








- MOT PAVEMENT MARKING LEGEND**
- (A) ITEM 614 - WORK ZONE CENTER LINE (DOUBLE, SOLID)
 - (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
 - (C) ITEM 614 - WORK ZONE CHANNELIZING LINE
 - (D) ITEM 614 - WORK ZONE STOP LINE
 - (E) ITEM 614 - WORK ZONE ARROW
 - (F) ITEM 614 - WORK ZONE DOTTED LINES
 - (G) ITEM 642 - CROSSWALK (FINAL MARKING TO BE PERFORMED PRIOR TO PHASE 1 CONSTRUCTION)
 - (H) ITEM 614 - WORK ZONE CROSSWALK LINE (FINAL MARKING LAYOUT TO MATCH EXISTING CROSSWALK WITH LONGITUDINAL LINES ONLY)

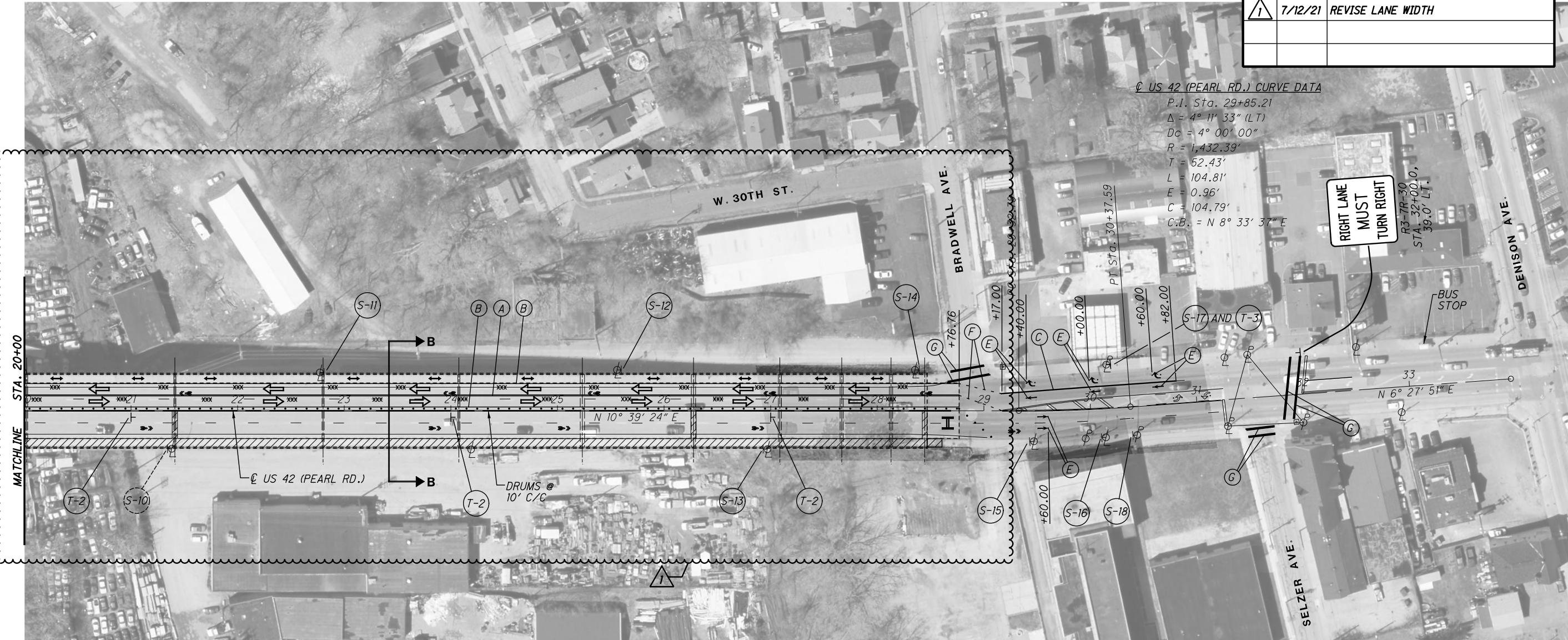
- LEGEND**
- WORK AREA
 - DRUMS
 - TYPE III BARRICADE
 - REMOVABLE BLACKOUT TAPE
 - TRAFFIC DIRECTION OF TRAVEL
 - PEDESTRIAN DIRECTION OF TRAVEL
- ≠ THE RTA SIGN AND BUS STOP SHALL BE TEMPORARILY MOVED DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH GCRTA PER THE MAINTENANCE OF TRAFFIC NOTES.

- NOTES:**
1. DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS AND SHOULD BE USED FOR INFORMATIONAL PURPOSES ONLY.
 2. SEE MT-95.31 AND MT-110.10 FOR ADDITIONAL DETAILS.
 3. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS. THE CONTRACTOR SHALL COVER GROUND MOUNTED SIGNS THAT ARE IN CONFLICT WITH THE MOT PHASING.
 4. FOR SECTION A-A AND SECTION B-B SEE SHEET 21.
 5. FOR CROSSWALK MARKING DETAILS SEE SHEET 21.
 6. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN, AND REMOVE THE SHARE THE ROAD SIGNS (W16-1P-18). THIS WORK SHALL BE INCLUDED WITH ITEM 614 - MAINTAINING TRAFFIC FOR PAYMENT.

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 SHARE THE ROAD W16-1P-18 STA. 21+00.00 STA. 24+00.00 STA. 27+00.00 (TEMPORARY SIGN SUPPORT) (T-2)	 SHARE THE ROAD W16-1P-18 STA. 7+20.00, 43'± RT. (GROUND MOUNTED) TO BE ERECTED PRIOR TO PHASE 1 AND TO BE REMOVED AFTER PHASE 2 CONSTRUCTION (T-3)	 MAY USE FULL LANE STA. 21+38.2±, 35.6'± RT. (LIGHT POLE MOUNTED) (REMOVE AND REERECT) (S-10)	 SPEED LIMIT 25 STA. 22+77.1±, 35.9'± LT. (LIGHT POLE MOUNTED) (DO NOT DISTURB) (S-11)	 MAY USE FULL LANE STA. 25+55.9±, 38.3'± LT. (LIGHT POLE MOUNTED) (DO NOT DISTURB) (S-12)	 MAY USE FULL LANE STA. 26+97.0±, 36.0'± RT. (LIGHT POLE MOUNTED) (DO NOT DISTURB) (S-13)	 SPEED LIMIT 25  STA. 28+35.3±, 38.3'± LT. (LIGHT POLE MOUNTED) (DO NOT DISTURB) (S-14)	 SPEED LIMIT 25   STA. 29+46.7±, 28.7'± RT. (LIGHT POLE MOUNTED) (DO NOT DISTURB) (S-15)	 EMERGENCY SNOW STREET NO PARKING WHEN SNOW EXCEEDS 2 IN STA. 30+13.1±, 27.2'± RT. (LIGHT POLE MOUNTED) (DO NOT DISTURB) (S-16)	 MAY USE FULL LANE   STA. 30+17.2±, 40.8'± LT. (POLE MOUNTED) (DO NOT DISTURB) (S-17)	 MAY USE FULL LANE   STA. 30+42.0±, 26.9'± RT. (POLE MOUNTED) (DO NOT DISTURB) (S-18)
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SIGNING LEGEND










1	7/12/21	REVISE LANE WIDTH

US 42 (PEARL RD.) CURVE DATA

P.I. Sta.	29+85.21
Δ	4° 11' 33" (LT)
Dc	4° 00' 00"
R	1,432.39'
T	52.43'
L	104.81'
E	0.96'
C	104.79'
C.B.	N 8° 33' 37" E

- MOT PAVEMENT MARKING LEGEND**
- (A) ITEM 614 - WORK ZONE CENTER LINE (DOUBLE, SOLID)
 - (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
 - (C) ITEM 614 - WORK ZONE CHANNELIZING LINE
 - (D) ITEM 614 - WORK ZONE STOP LINE
 - (E) ITEM 614 - WORK ZONE ARROW
 - (F) ITEM 614 - WORK ZONE DOTTED LINES
 - (G) ITEM 642 - CROSSWALK (FINAL MARKING TO BE PERFORMED PRIOR TO PHASE 1 CONSTRUCTION)

- LEGEND**
-  WORK AREA
 -  DRUMS
 -  TYPE III BARRICADE
 -  REMOVABLE BLACKOUT TAPE
 -  TRAFFIC DIRECTION OF TRAVEL
 -  PEDESTRIAN DIRECTION OF TRAVEL
 -  THE REMOVAL AND REERECTION OF THE EXISTING LIGHT POLE AND SIGN SHALL BE INCLUDED WITH ITEM 625 - REMOVE AND REERECT EXISTING LIGHT POLE, AS PER PLAN FOR PAYMENT.

- NOTES:**
1. DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS AND SHOULD BE USED FOR INFORMATIONAL PURPOSES ONLY.
 2. SEE MT-95.31 AND MT-110.10 FOR ADDITIONAL DETAILS.
 3. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS. THE CONTRACTOR SHALL COVER GROUND MOUNTED SIGNS THAT ARE IN CONFLICT WITH THE MOT PHASING.
 4. FOR SECTION B-B SEE SHEET 21.
 5. FOR CROSSWALK MARKING DETAILS SEE SHEET 21.
 6. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN, AND REMOVE THE SHARE THE ROAD SIGNS (W16-1P-18). THIS WORK SHALL BE INCLUDED WITH ITEM 614 - MAINTAINING TRAFFIC FOR PAYMENT.



 CALCULATED ALP
 CHECKED TJF

MAINTENANCE OF TRAFFIC PLAN
LOCATION 2: CUY-042-1457 - PHASE 1

CUY-071-16.40/ VAR REPAIR
 PID NO. 111603

3 / 6

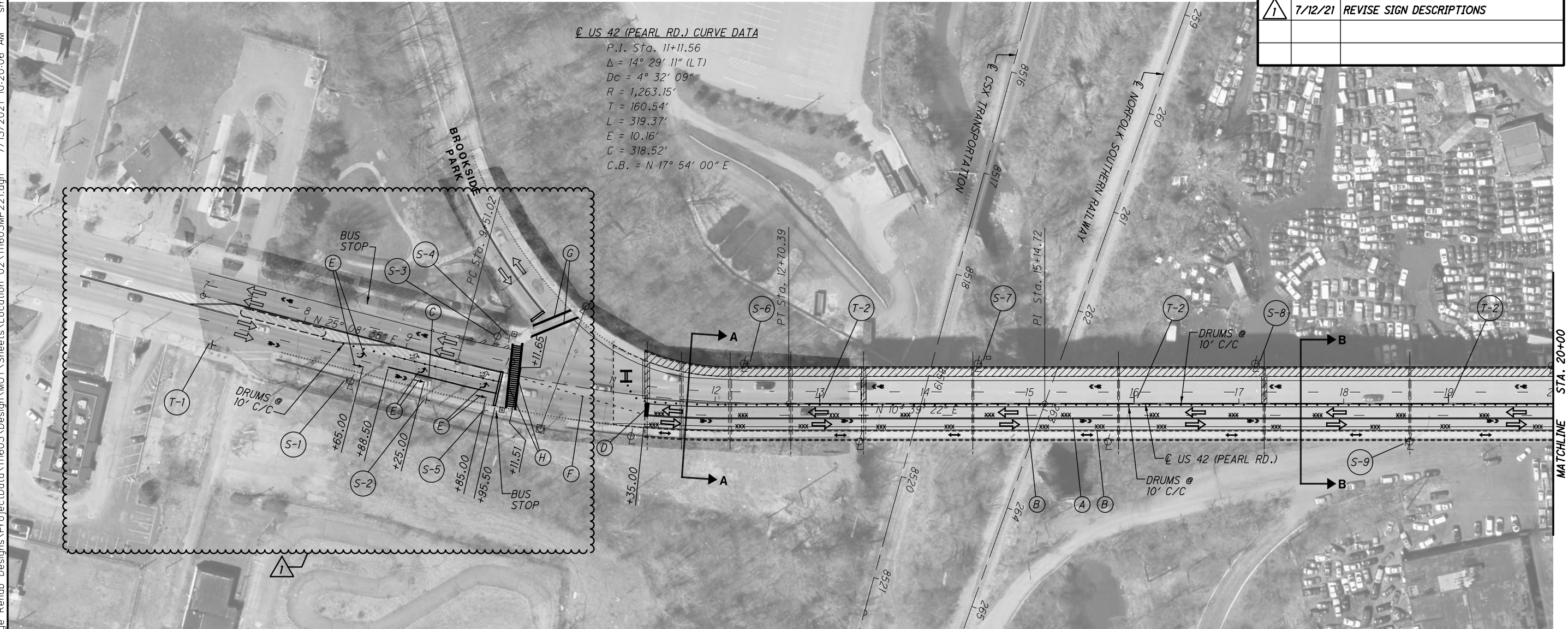


SIGNING LEGEND

- T-1** SHARE THE ROAD (GROUND MOUNTED) (TEMPORARY SIGN TO BE ERECTED PRIOR TO PHASE 1 AND TO BE REMOVED AFTER PHASE 2 CONSTRUCTION)
W16-1P-18 STA. 7+20.00, 43± RT.
- T-2** SHARE THE ROAD (TEMPORARY SIGN SUPPORT)
W16-1P-18 STA. 13+00.00, STA. 16+00.00, STA. 19+00.00
- S-1** ZOO (LIGHT POLE MOUNTED) (DO NOT DISTURB)
STA. 8+56.8±, 43.7± RT.
- S-2** MAY USE FULL LANE (POLE MOUNTED) (DO NOT DISTURB)
- S-3** Wildlife w/ Pearl (LIGHT POLE MOUNTED) (DO NOT DISTURB)
STA. 9+82.6±, 32.6± LT.
- S-4** MAY USE FULL LANE (GROUND MOUNTED) (DO NOT DISTURB)
STA. 9+94.3±, 32.8± LT.
- S-5** RTA (GROUND MOUNTED) (REMOVE AND REERECT)≠
STA. 9+86.2±, 38.8± RT.
- S-6** SPEED LIMIT 25 (LIGHT POLE MOUNTED) (DO NOT DISTURB)
STA. 12+26.2±, 37.6± LT.
- S-7** ZOO (LIGHT POLE MOUNTED) (DO NOT DISTURB)
STA. 14+50.5±, 38.3± LT.
- S-8** MAY USE FULL LANE (LIGHT POLE MOUNTED) (DO NOT DISTURB)
STA. 17+15.3±, 38.3± LT.
- S-9** SPEED LIMIT 25 (LIGHT POLE MOUNTED) (DO NOT DISTURB)
STA. 18+62.9±, 36.1± RT.

1	7/12/21	REVISE SIGN DESCRIPTIONS

US 42 (PEARL RD.) CURVE DATA
 P.I. Sta. 11+11.56
 $\Delta = 14^\circ 29' 11''$ (LT)
 $D_c = 4^\circ 32' 09''$
 $R = 1,263.15'$
 $T = 160.54'$
 $L = 319.37'$
 $E = 10.16'$
 $C = 318.52'$
 $C.B. = N 17^\circ 54' 00'' E$



- MOT PAVEMENT MARKING LEGEND**
- (A) ITEM 614 - WORK ZONE CENTER LINE (DOUBLE, SOLID)
 - (B) ITEM 614 - WORK ZONE EDGE LINE (WHITE)
 - (C) ITEM 614 - WORK ZONE CHANNELIZING LINE
 - (D) ITEM 614 - WORK ZONE STOP LINE
 - (E) ITEM 614 - WORK ZONE ARROW
 - (F) ITEM 614 - WORK ZONE DOTTED LINES
 - (G) ITEM 642 - CROSSWALK (FINAL MARKING TO BE PERFORMED PRIOR TO PHASE 1 CONSTRUCTION)
 - (H) ITEM 614 - WORK ZONE CROSSWALK LINE (FINAL MARKING LAYOUT TO MATCH EXISTING CROSSWALK WITH LONGITUDINAL LINES ONLY)

LEGEND

- WORK AREA
- DRUMS
- TYPE III BARRICADE
- REMOVABLE BLACKOUT TAPE
- TRAFFIC DIRECTION OF TRAVEL
- PEDESTRIAN DIRECTION OF TRAVEL

≠ THE RTA SIGN AND BUS STOP SHALL BE TEMPORARILY MOVED DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH GCRTA PER THE MAINTENANCE OF TRAFFIC NOTES.

- NOTES:**
1. DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS AND SHOULD BE USED FOR INFORMATIONAL PURPOSES ONLY.
 2. SEE MT-95.31 AND MT-110.10 FOR ADDITIONAL DETAILS.
 3. THE CONTRACTOR SHALL COVER MESSAGES THAT ARE IN CONFLICT WITH THE MOT PHASING PLANS ON ALL GUIDE SIGNS. THE CONTRACTOR SHALL COVER GROUND MOUNTED SIGNS THAT ARE IN CONFLICT WITH THE MOT PHASING.
 4. FOR SECTION A-A AND SECTION B-B SEE SHEET 24.
 5. FOR CROSSWALK MARKING DETAILS SEE SHEET 21.
 6. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN, AND REMOVE THE SHARE THE ROAD SIGNS (W16-1P-18). THIS WORK SHALL BE INCLUDED WITH ITEM 614 - MAINTAINING TRAFFIC FOR PAYMENT.

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SHEET NUMBER								ITEM	ITEM EXT.	PARTICIPATION	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5-8	9-36	40-44	46-50	51-90	91-123									
			357					621	00300		357	EACH	RPM REFLECTOR	
			357					621	54001		357	EACH	RAISED PAVEMENT MARKER REMOVED, AS PER PLAN	13
				8				626	00102		8	EACH	BARRIER REFLECTOR, TYPE 1, ONE WAY	
			4					626	00110		4	EACH	BARRIER REFLECTOR, TYPE 2, ONE WAY	
TRAFFIC CONTROL														
			0.66					642	00100		0.66	MILE	EDGE LINE, 4", TYPE 1	
			3.82					642	00104		3.82	MILE	EDGE LINE, 6", TYPE 1	
			0.66					642	00200		0.66	MILE	LANE LINE, 4", TYPE 1	
			3.92					642	00204		3.92	MILE	LANE LINE, 6", TYPE 1	
			0.33					642	00300		0.33	MILE	CENTER LINE, TYPE 1	
			2966					642	00404		2966	FT	CHANNELIZING LINE, 12", TYPE 1	
			36					642	00500		36	FT	STOP LINE, TYPE 1	
			449					642	00600		449	FT	CROSSWALK LINE, TYPE 1	
			161					642	00700		161	FT	TRANSVERSE/DIAGONAL LINE, TYPE 1	
			5320					642	01510		5320	FT	DOTTED LINE, 6", TYPE 1	
			18					642	19000		18	EACH	SHARED LANE MARKING, TYPE 1	
STRUCTURE REPAIR (CUY-008-0127, SFN 1801201 - LOCATION 1)														
				LS				202	11202		LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN	
				462				513	21599		462	LB	STRUCTURAL STEEL FOR REHABILITATION	
				LS				514	00100		LS		SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	
				LS				514	00200		LS		FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT	
				LS				514	00300		LS		FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT	
				LS				514	00401		LS		FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN	47
				2622				SPECIAL	51900100		2622	SF	COMPOSITE FIBER WRAP SYSTEM	47
STRUCTURE REPAIR (CUY-042-1457, SFN 1803271 - LOCATION 2)														
				LS				202	11203		LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	53
				500				SPECIAL	20270110		500	FT	PIPE CLEANOUT, 24" AND UNDER	53
				400				202	15267		400	FT	VANDAL PROTECTION FENCE REMOVED AND RESET, AS PER PLAN	53
				9948				509	10000		9948	LB	EPOXY COATED REINFORCING STEEL	
				37				511	34410		37	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
				36				511	34417		36	CY	CLASS QC SCC CONCRETE, SUPERSTRUCTURE, AS PER PLAN (WITH STEEL FIBERS)	53
				9838				511	34423		9838	SF	CLASS QC2 CONCRETE, SIDEWALK WEARING SURFACE, AS PER PLAN	53
				1441				512	10101		1441	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	53
				1398				512	74001		1398	SY	REMOVAL OF EXISTING COATING FROM CONCRETE SURFACE, AS PER PLAN	53
				140				516	01301		140	FT	ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS, AS PER PLAN (SEAL REPLACEMENT PIERS 4 & 14 JOINTS)	53
				149				516	11210		149	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL	
				140				SPECIAL	51612400		140	FT	MODULAR EXPANSION JOINT (SEAL REPLACEMENT PIERS 7 & 10 JOINTS)	53
				200				518	51101		200	FT	8" PIPE DOWNSPOUT, INCLUDING SPECIALS, AS PER PLAN	54
				2				518	51300		2	EACH	DOWNSPOUT MODIFICATION, 8"	54
				1800				518	62100		1800	FT	STRUCTURE DRAINAGE, MISC.: FLUSHING AND CLEANING OF THE DRAINAGE SYSTEM INCLUDING SCUPPERS AND DOWNSPOUTS	54
				413				519	11101		413	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	54
				8				519	12300		8	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	54
				17792				SPECIAL	53000600		17792	SF	STRUCTURES: TIMBER SUBDECK	54

1	7/12/21	REMOVE ITEMS, REVISE

CALCULATED	TJF	CHECKED	ALP
GENERAL SUMMARY			
CUY-071-16.40/VAR REPAIR			
PID NO. 111603			

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SHEET NUMBER										ITEM	ITEM EXT.	PARTICIPATION	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5-8	9-36	40-44	46-50	51-90	91-123											
STRUCTURE REPAIR (CUY-071-1640, SFN 1805223 - LOCATION 4)																
						LS				202	11203		LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	92
						806				202	22900		806	SY	APPROACH SLAB REMOVED	
						392				202	23500		392	SY	WEARING COURSE REMOVED	
						LS				503	21300		LS		UNCLASSIFIED EXCAVATION	
						21137				509	10000		21137	LB	EPOXY COATED REINFORCING STEEL	
						1152				510	10000		1152	EACH	DOWEL HOLES WITH NON SHRINK, NONMETALLIC GROUT	
						9				511	34410		9	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	
						67				511	34417		67	CY	CLASS QC2 SCC CONCRETE, SUPERSTRUCTURE, AS PER PLAN (WITH STEEL FIBERS)	92
						15				511	45710		15	CY	CLASS QC1 CONCRETE, ABUTMENT	
						577				512	10101		577	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	92
						436				512	74001		436	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES, AS PER PLAN	92
						319				516	11210		319	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL	
						21				516	13200		21	SF	1/2" PREFORMED EXPANSION JOINT FILLER	
						348				516	13600		348	SF	1" PREFORMED EXPANSION JOINT FILLER	
						19				516	13900		19	SF	2" PREFORMED EXPANSION JOINT FILLER	
						41				516	31010		41	FT	2" DEEP JOINT SEALER	
						40				518	21200		40	CY	POROUS BACK FILL WITH GEOTEXTILE FABRIC	
						345				518	40000		345	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
						39				518	40010		39	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	
						800				526	25011		800	SY	REINFORCED CONCRETE APPROACH SLAB WITH QC/QA (T=15"), AS PER PLAN	92
						280				601	28000		280	CY	DUMPED ROCK FILL, TYPE D	
MAINTENANCE OF TRAFFIC																
						64				614	11110		64	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
						904				614	11630		904	FT	INCREASED BARRIER DELINEATION	
						6				614	12380		6	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
						3536				614	12800		3536	EACH	WORK ZONE RAISED PAVEMENT MARKER	
						209				614	13310		209	EACH	BARRIER REFLECTOR, TYPE 1, ONE WAY	
						82				614	13312		82	EACH	BARRIER REFLECTOR, TYPE 2, ONE WAY	
						206				614	13350		206	EACH	OBJECT MARKER, ONE WAY	
						30				614	13360		30	EACH	OBJECT MARKER, TWO WAY	
						9055				614	18002		9055	LS	MAINTAINING TRAFFIC, MISC.: GCRTA COORDINATION	11
						10				614	18030		10	FT	MAINTAINING TRAFFIC, MISC.: RUMBLE STRIPS REMOVAL	12
						10				614	18601		10	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	13
						0.66				614	21200		0.66	MILE	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I	
						1.32				614	22200		1.32	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 740.06, TYPE I	
						10.80				614	22210		10.80	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 740.06, TYPE I	
						435				614	23400		435	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 740.06, TYPE I	
						42089				614	23410		42089	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 740.06, TYPE I	
						418				614	24400		418	FT	WORK ZONE DOTTED LINE, CLASS I, 4", 740.06, TYPE I	
						5863				614	24402		5863	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 740.06, TYPE I	
						94				614	25400		94	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 740.06, TYPE I	
						22				614	26400		22	FT	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I	
						488				614	27400		488	FT	WORK ZONE CROSSWALK LINE, CLASS I, 740.06, TYPE I	
						20				614	30400		20	EACH	WORK ZONE ARROW, CLASS I, 740.06, TYPE I	
						4627				614	98100		4627	FT	WORK ZONE PAVEMENT MARKING, MISC.: REMOVABLE, NON-REFLECTIVE PREFORMED BLACKOUT TAPE	13
						LS				615	10000		LS		ROADS FOR MAINTAINING TRAFFIC	
						412				615	20000		412	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
						1				616	10000		1	MGAL	WATER	
						2				622	41050		2	EACH	PORTABLE BARRIER, "Y" CONNECTOR	
						4431				622	41100		4431	FT	PORTABLE BARRIER, UNANCHORED	
INCIDENTALS																
						LS				108	10000		LS		CPM PROGRESS SCHEDULE	
						9				614	11000		LS		MAINTAINING TRAFFIC	
						LS				619	16011		9	MNTH	FIELD OFFICE, TYPE B, AS PER PLAN	7
						LS				623	10001		LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	7
						LS				624	10000		LS		MOBILIZATION	

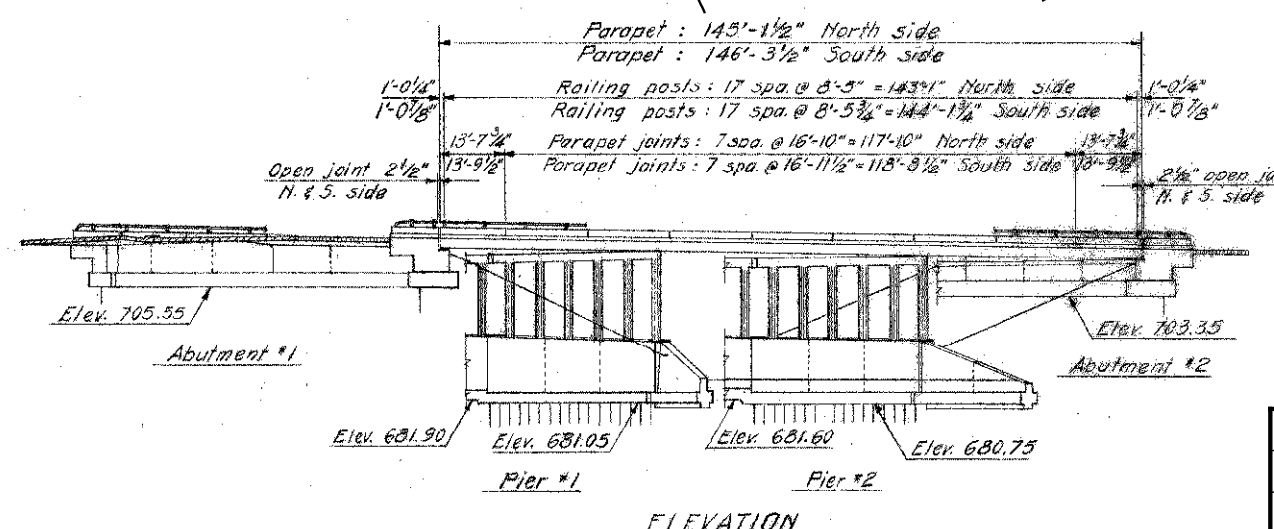
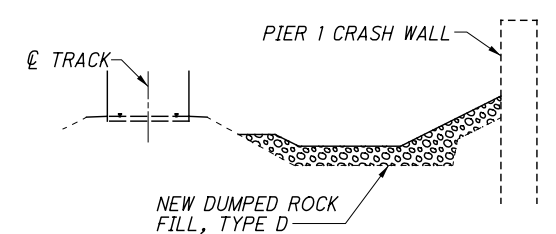
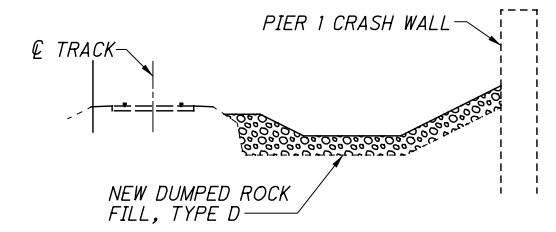
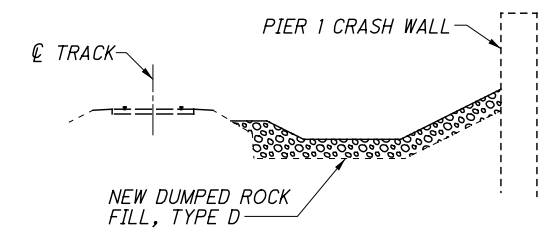
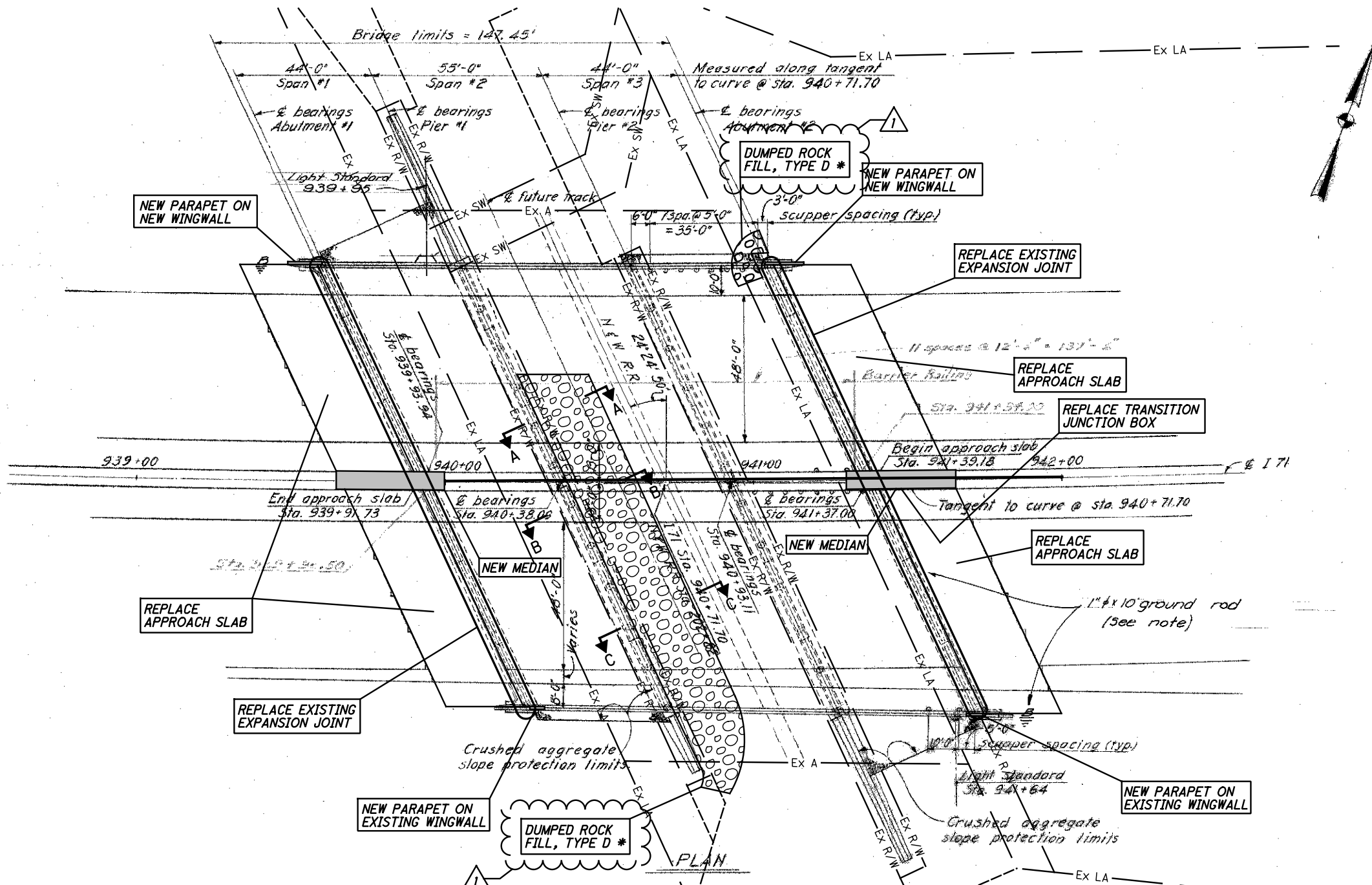
△	7/12/21	ADD MOT ITEM				

GENERAL SUMMARY

CUY-071-16.40/ VAR REPAIR
PID NO. 111603

CALCULATED
TJF
CHECKED
ALP

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LEGEND

* A QUANTITY OF 280 C.Y. OF DUMPED ROCK FILL HAS BEEN INCLUDED IN THE ESTIMATED QUANTITIES FOR ITEM 601 - DUMPED ROCK FILL, TYPE D, TO BE PLACED AT THE DIRECTION OF THE ENGINEER.

NOTES:

1. DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS AND SHOULD BE USED FOR INFORMATION PURPOSES ONLY.
2. PERFORM ONLY THE WORK AS INDICATED IN THE STRUCTURE DATA SHEET, FRAMED TEXT, AND/OR DESCRIBED IN THE GENERAL NOTES.
3. FOR ESTIMATED QUANTITIES SEE SHEET 3/33.

1	7/12/21	ADD NOTE

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1

ESTIMATED QUANTITIES

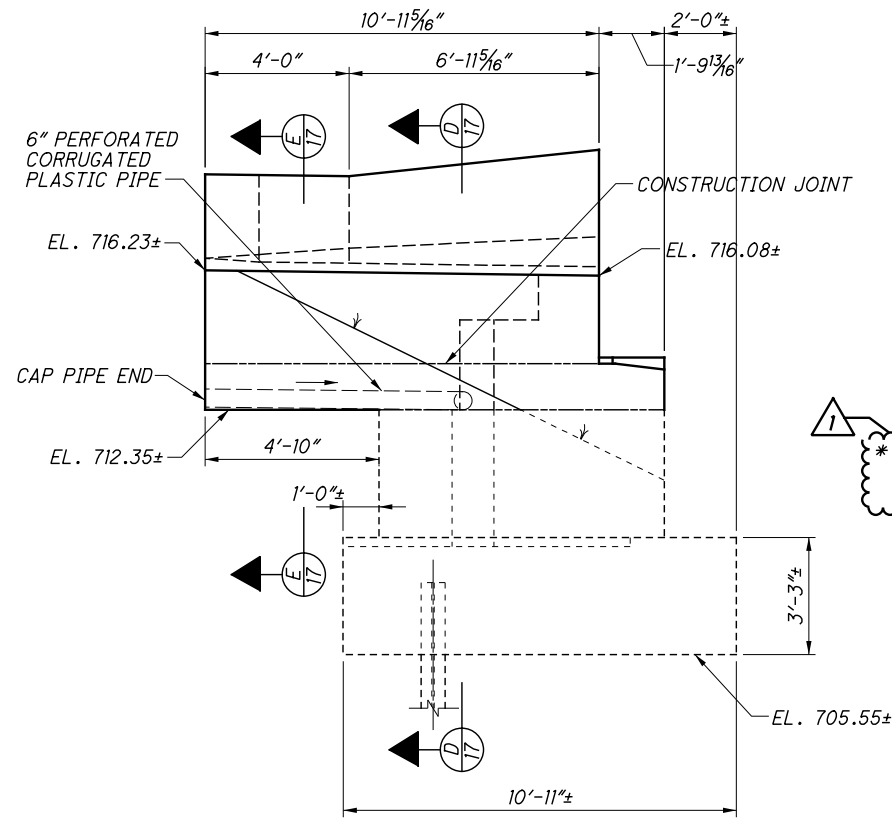
CALCULATED DLR DATED 07/21
 CHECKED dht DATED 07/21

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUTS.	GEN'L	REF. SHEET
202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN			LS	2/33
202	22900	806	SY	APPROACH SLAB REMOVED			806	
202	23500	392	SY	WEARING COURSE REMOVED			392	
503	21300	LS		UNCLASSIFIED EXCAVATION			LS	
509	10000	21,137	LB	EPOXY COATED REINFORCING STEEL	8831	12,306		
510	10000	1152	EACH	DOWEL HOLES WITH NON-SHRINK, NON-METALLIC GROUT	836	316		
511	34410	9	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE	3	6		
511	34417	67	CY	CLASS QC SCC CONCRETE, SUPERSTRUCTURE, AS PER PLAN (WITH STEEL FIBERS)	25	42		2/33
511	45710	15	CY	CLASS QC1 CONCRETE, ABUTMENT		15		
512	10101	577	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), AS PER PLAN	459	60	58	2/33
512	74001	436	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES, AS PER PLAN	433	3		2/33
516	11210	319	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL	319			
516	13200	21	SF	1/2" PREFORMED EXPANSION JOINT FILLER	21			
516	13600	348	SF	1" PREFORMED EXPANSION JOINT FILLER	348			
516	13900	19	SF	2" PREFORMED EXPANSION JOINT FILLER	19			
516	31010	41	FT	2" DEEP JOINT SEALER	41			
518	21200	40	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC		40		
518	40000	345	FT	6" PERFORATED CORRUGATED PLASTIC PIPE		345		
518	40010	39	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS		39		
526	25011	800	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN			800	2/33
601	28000	280	CY	DUMPED ROCK FILL, TYPE D			280	

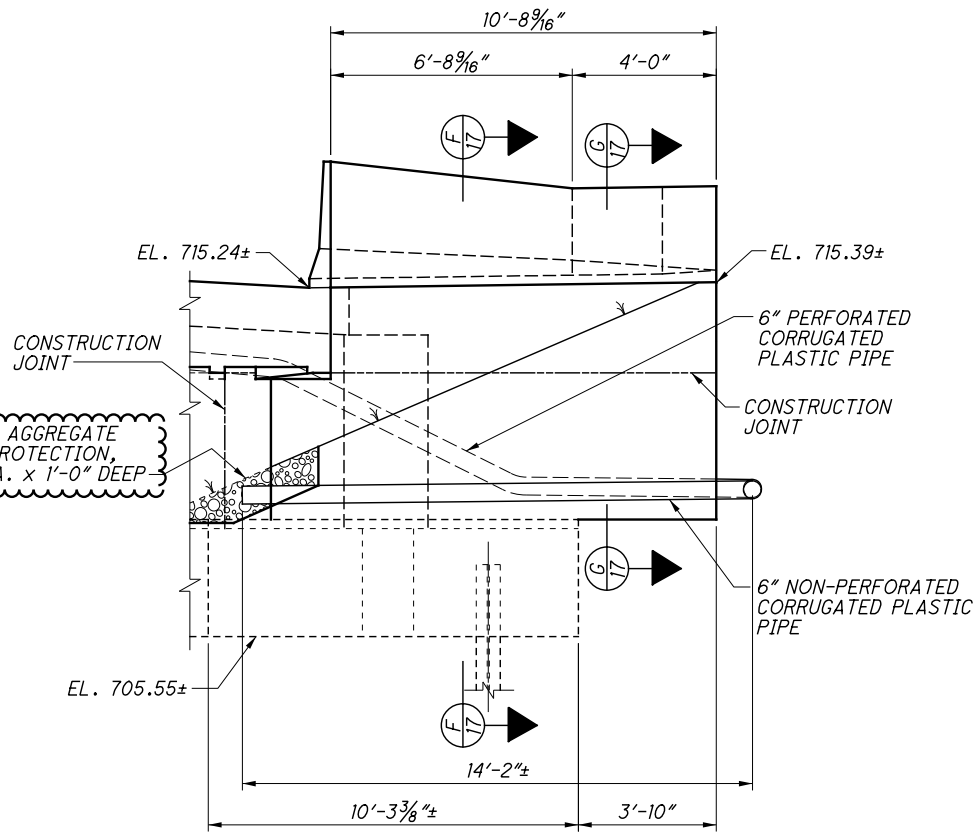
RICHLAND ENGINEERING LIMITED
 29 NORTH PARK STREET
 MANSFIELD, OHIO 44902
 DATE: _____
 REVIEWED: _____
 DRAWN: _____
 DESIGNED: _____
 BLN: _____
 CHECKED: _____
 DHT: _____
 STRUCTURE FILE NUMBER: 1805223
ESTIMATED QUANTITIES - LOCATION 4
 BRIDGE NO. CUY-71-1640
 IR 71 OVER NORFOLK SOUTHERN RAILWAY
CUY-071-16.40 VAR REPAIR
 PID No. 111603
 3 / 33
 93 / 123

1	7/12/21	QUANTITIY REVISIONS

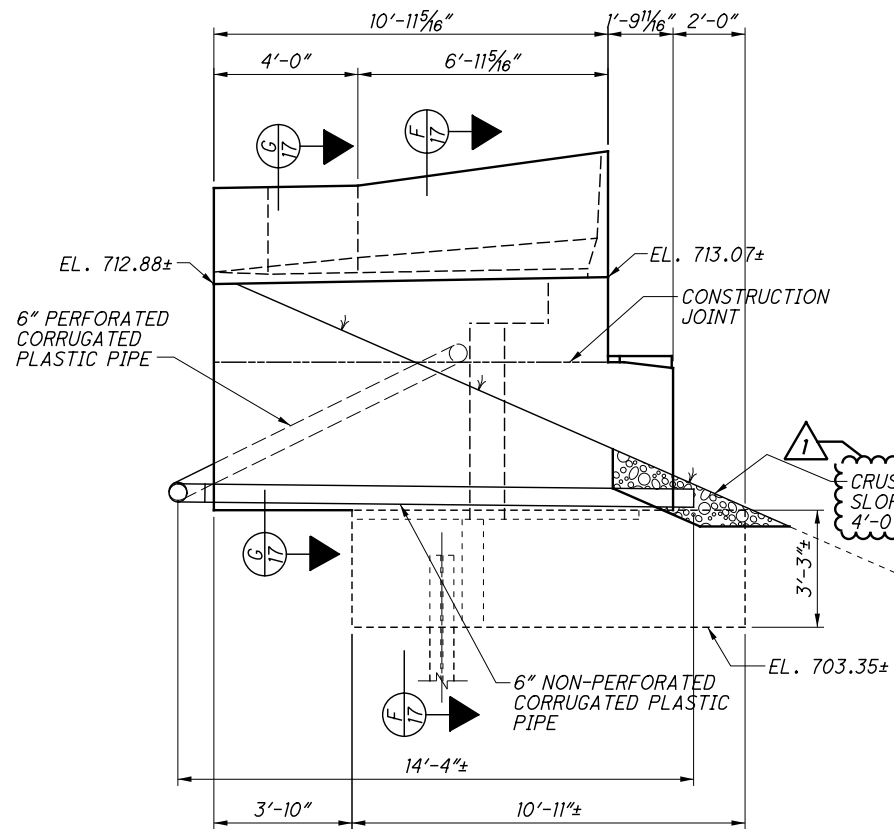
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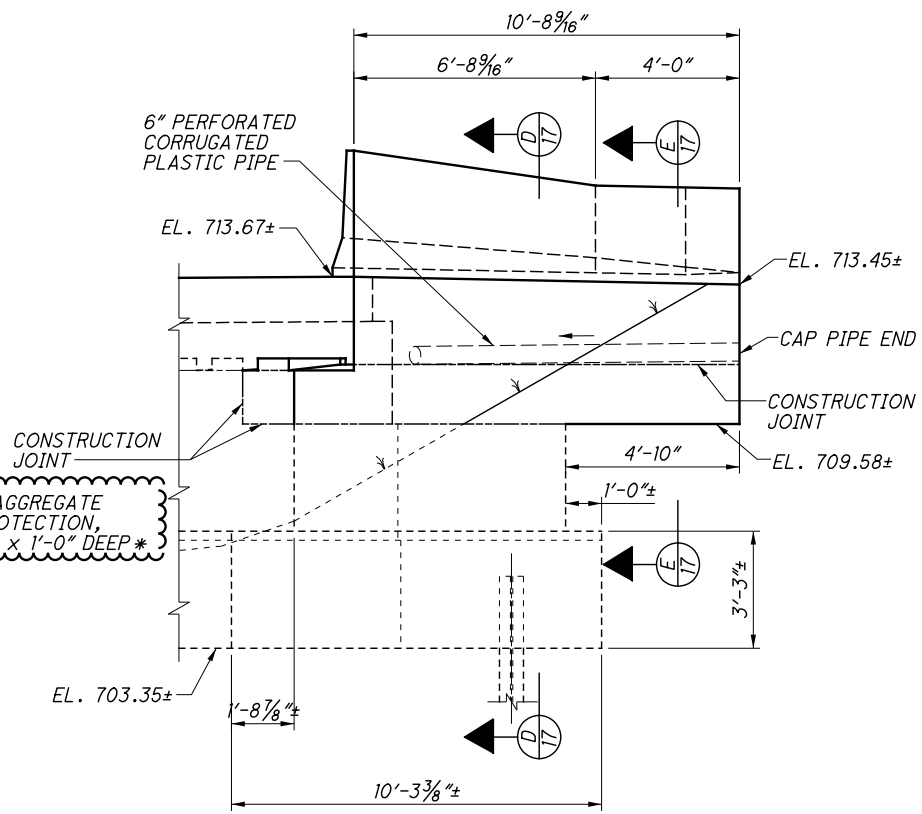
REAR ABUTMENT - RIGHT WINGWALL



REAR ABUTMENT - LEFT WINGWALL



FORWARD ABUTMENT - LEFT WINGWALL



FORWARD ABUTMENT - RIGHT WINGWALL

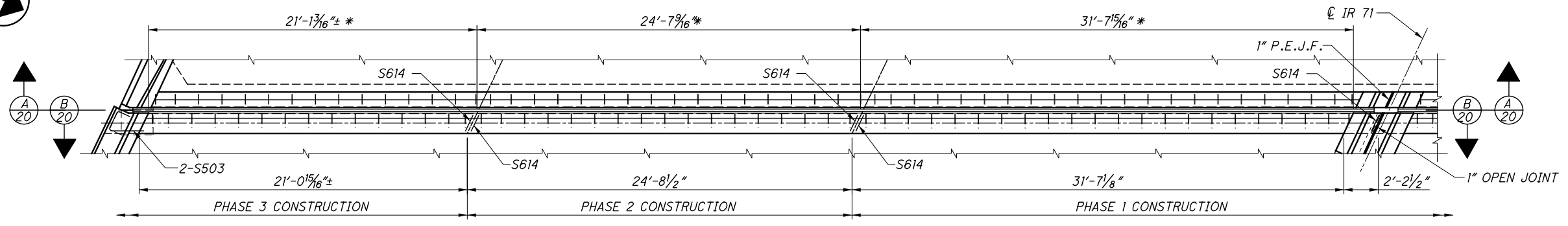
1	7/12/21	REVISE NOTE

LEGEND
 1 * INCLUDED WITH ITEM 518 - 6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS FOR PAYMENT.

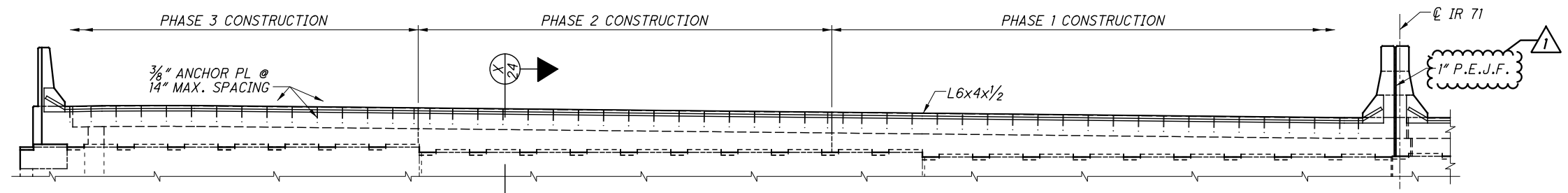
NOTES

ELEVATIONS SHOWN ARE BASED ON ORIGINAL AND REHAB PLANS AND ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL MATCH EXISTING.

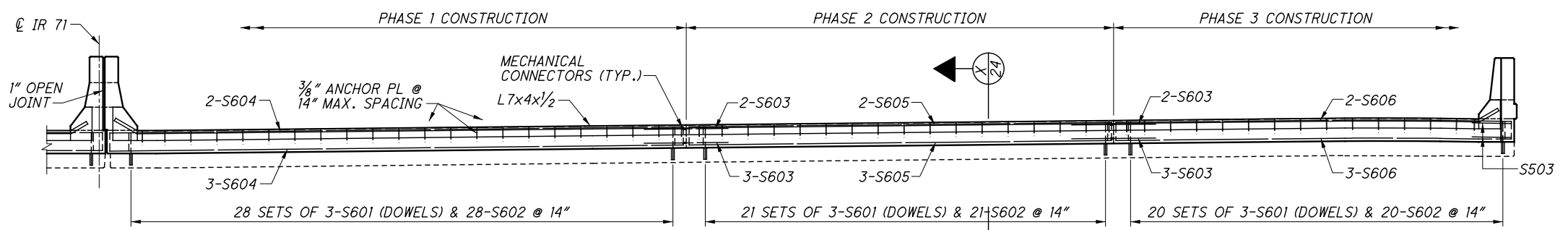
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REAR ABUTMENT JOINT PLAN - RIGHT BRIDGE



SECTION A-A



SECTION B-B

LEGEND

* MEASURED ALONG EDGE OF DECK JOINT

NOTES

NOTATION: P.E.J.F. - PREFORMED EXPANSION JOINT FILLER.

REINFORCING STEEL SPLICE LENGTH SHALL BE 3'-4" FOR HORIZONTAL #6 BARS.

ABUTMENT REINFORCING: SEE SHEET [12/33].

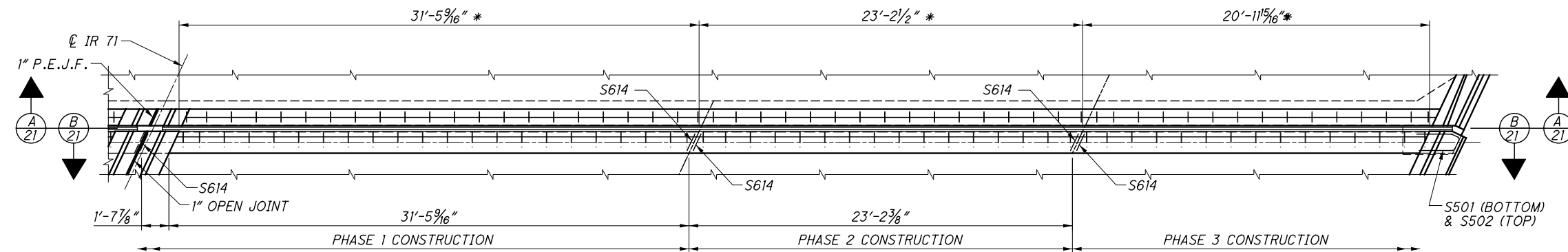
PARAPET & MEDIAN BARRIER DETAILS & REINFORCING: SEE SHEETS [25/33] & [26/33].

ADDITIONAL NOTES & DETAILS: SEE STANDARD DRAWING EXJ-5-93.

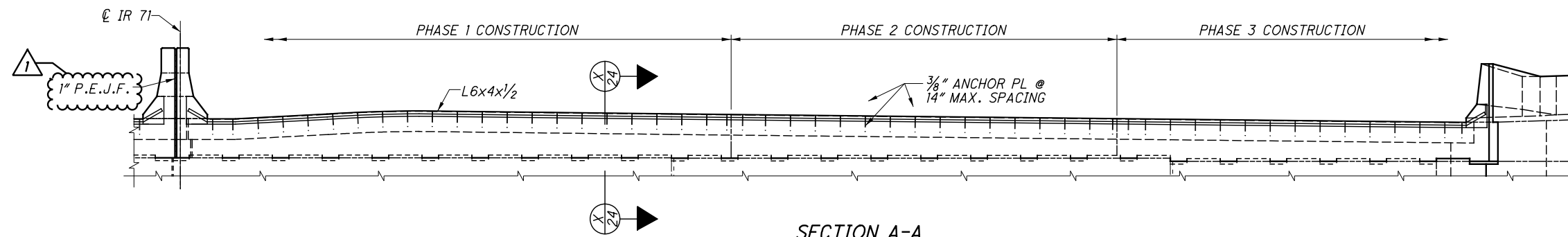
1	7/12/21	REVISE NOTE

RIGHT BRIDGE REAR ABUTMENT JOINT - LOCATION 4
 BRIDGE NO. CUY-71-1640
 IR 71 OVER NORFOLK SOUTHERN RAILWAY
CUY-071-16.40 VAR REPAIR
 PID No. 111603
 RICHLAND ENGINEERING LIMITED
 29 NORTH PARK STREET
 MANSFIELD, OHIO 44902
 DATE 06/2021
 DLR
 STRUCTURE FILE NUMBER 1805223
 REVIEWED
 DRAWN
 DESIGNED
 CHECKED
 DATE
 20/33
 110/123

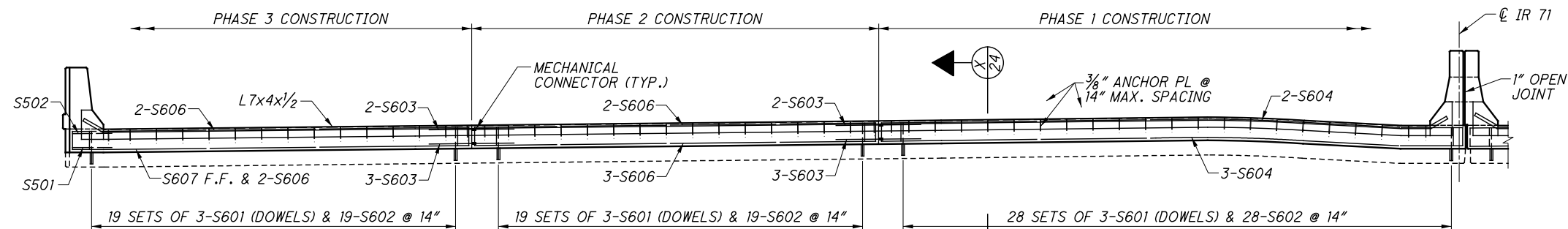
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REAR ABUTMENT JOINT PLAN - LEFT BRIDGE



SECTION A-A



SECTION B-B

LEGEND

* MEASURED ALONG EDGE OF DECK JOINT

NOTES

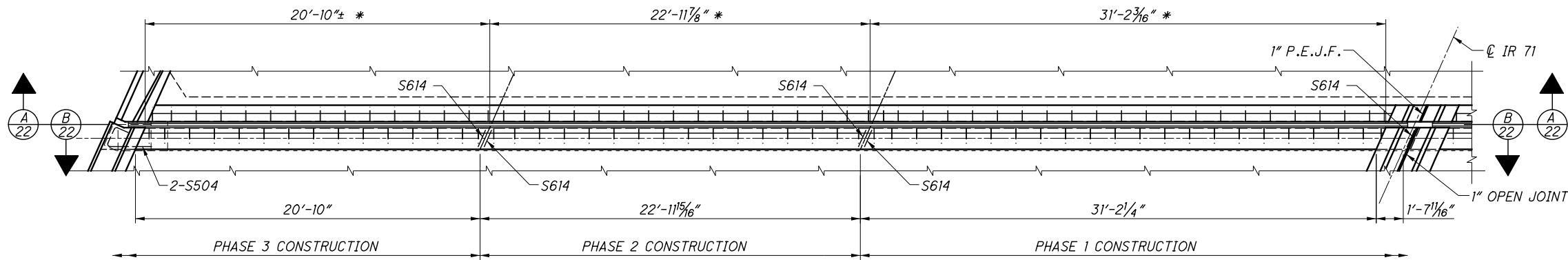
ABUTMENT REINFORCING: SEE SHEET 13/33.

PARAPET & MEDIAN BARRIER DETAILS & REINFORCING: SEE SHEETS 25/33 & 26/33.

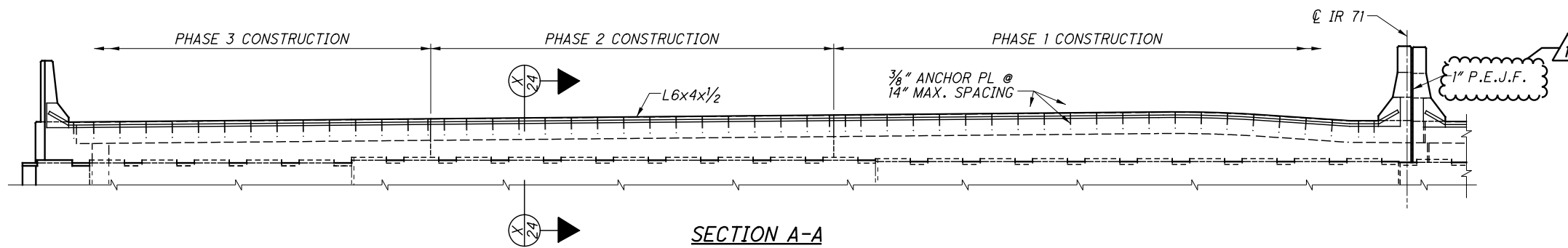
ADDITIONAL NOTES: SEE SHEET 20/33.

1	7/12/21	REVISE NOTE

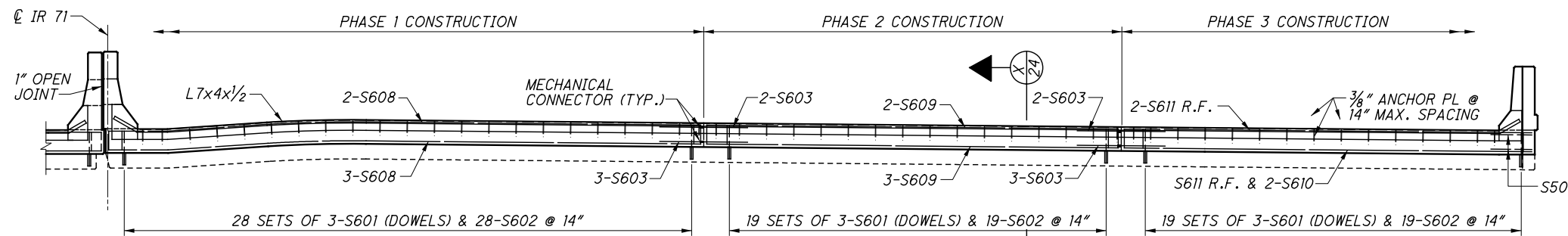
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FORWARD ABUTMENT JOINT PLAN - LEFT BRIDGE



SECTION A-A



SECTION B-B

LEGEND

* MEASURED ALONG EDGE OF DECK JOINT

NOTES

ABUTMENT REINFORCING: SEE SHEET [14/33].

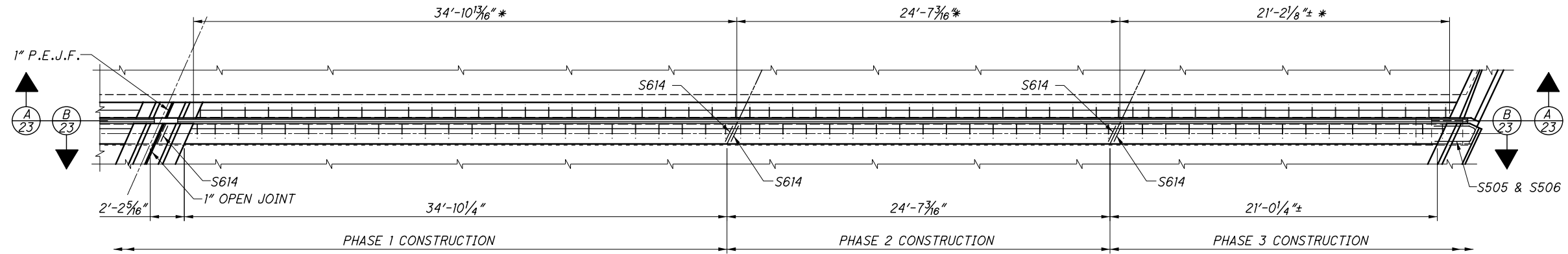
PARAPET & MEDIAN BARRIER DETAILS & REINFORCING: SEE SHEET [25/33] & [26/33].

ADDITIONAL NOTES: SEE SHEET [20/33].

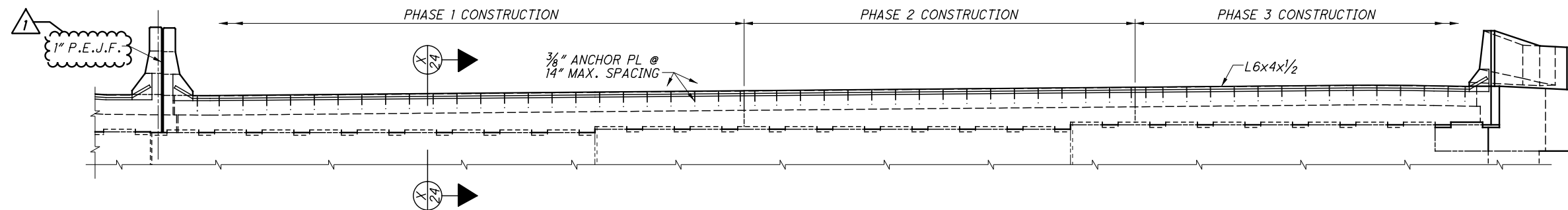
1	7/12/21	REVISE NOTE

RICHLAND ENGINEERING LIMITED
 29 NORTH PARK STREET
 MANSFIELD, OHIO 44902
 DATE: 06/2021
 REVIEWED: DLR
 STRUCTURE FILE NUMBER: 1805223
 DRAWN: JLS
 CHECKED: DHT
LEFT BRIDGE FORWARD ABUTMENT JOINT - LOCATION 4
 BRIDGE NO.: CUY-71-1640
 IR 71 OVER NORFOLK SOUTHERN RAILWAY
CUY-071-16.40 VAR REPAIR
 PID No. 111603
 22 / 33
 112 / 123

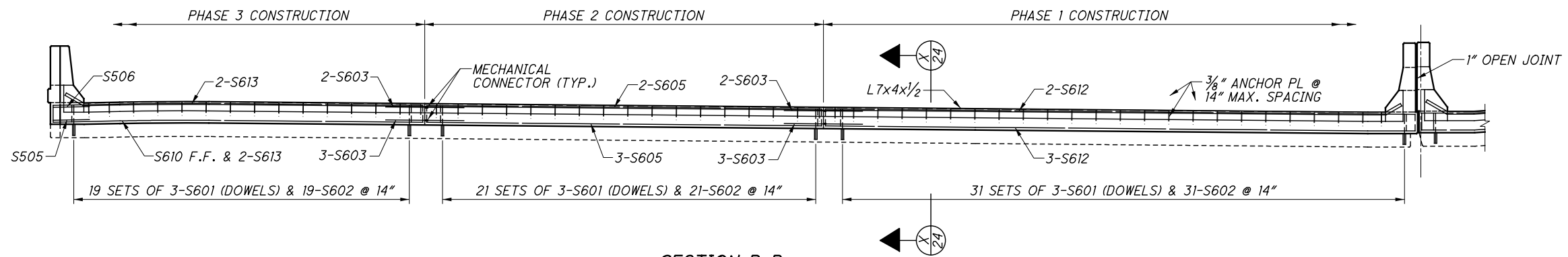
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FORWARD ABUTMENT JOINT PLAN - RIGHT BRIDGE



SECTION A-A



SECTION B-B

LEGEND

* MEASURED ALONG EDGE OF DECK JOINT

NOTES

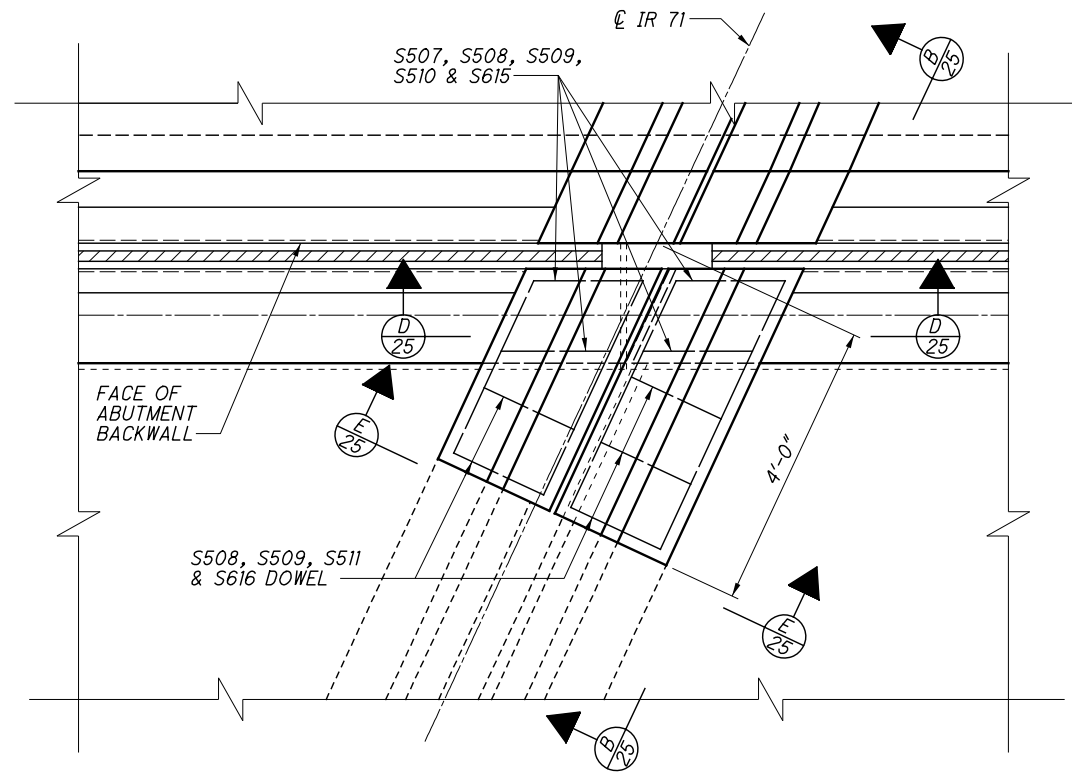
ABUTMENT REINFORCING: SEE SHEET [15/33].

PARAPET & MEDIAN BARRIER DETAILS & REINFORCING: SEE SHEET [25/33] & [26/33].

ADDITIONAL NOTES: SEE SHEET [20/33].

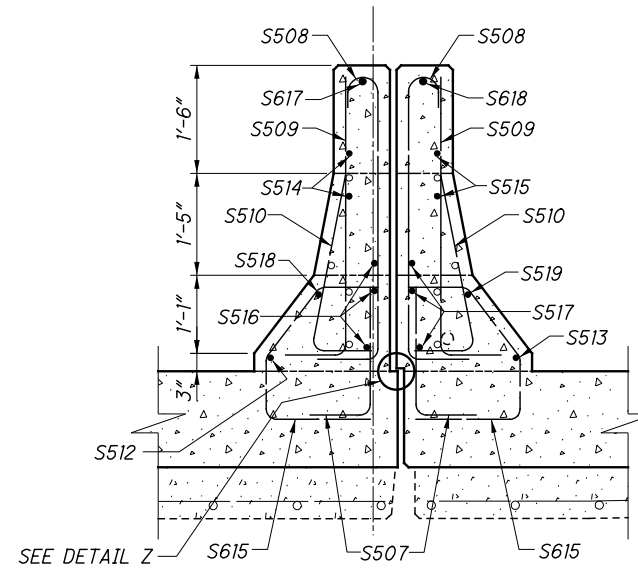
1	7/12/21	REVISE NOTE

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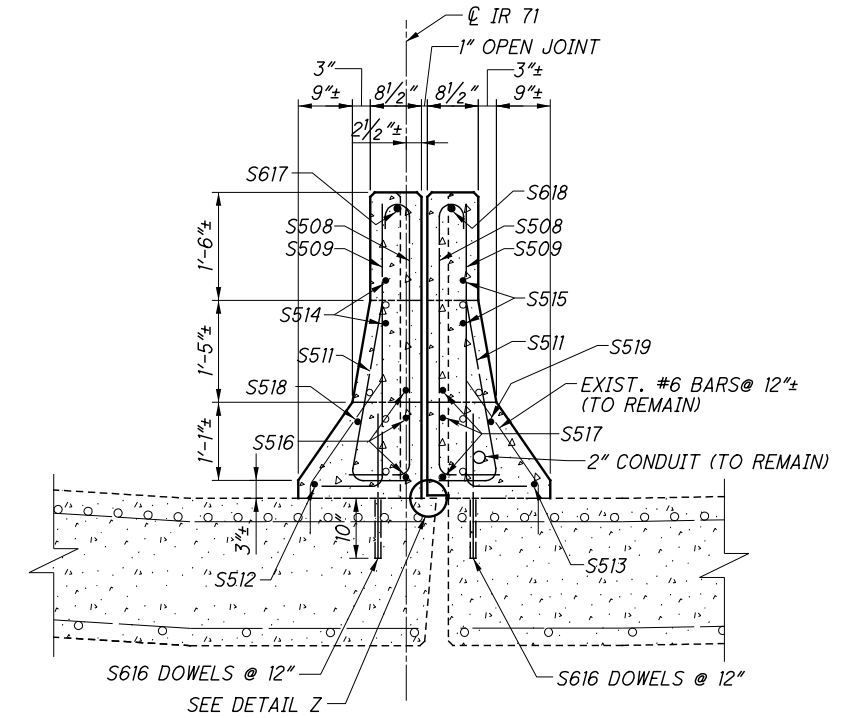
MEDIAN BARRIER PLAN AT ABUTMENT JOINTS

FORWARD ABUTMENT JOINT - SHOWN
REAR ABUTMENT JOINT - SIMILAR



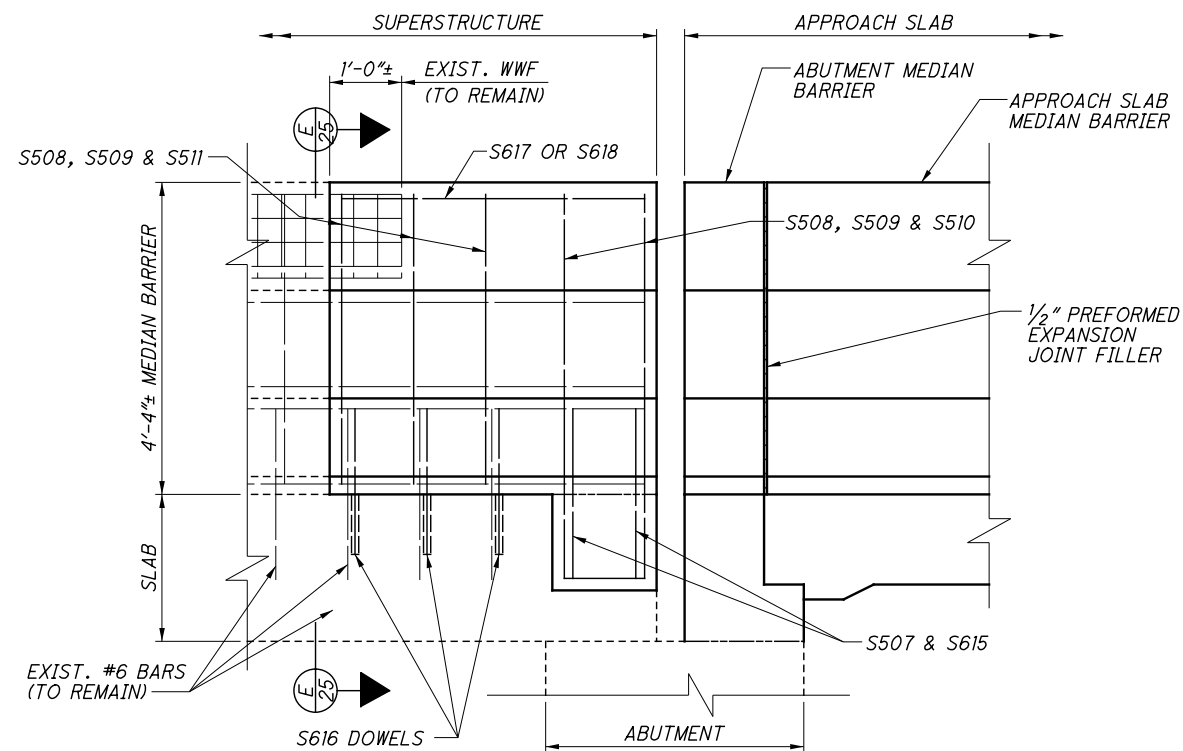
SECTION D-D

EXISTING HORIZONTAL RAILING BARS
ARE #5 BARS TO REMAIN. ROTATE
S508 BARS AS NECESSARY TO FIT.

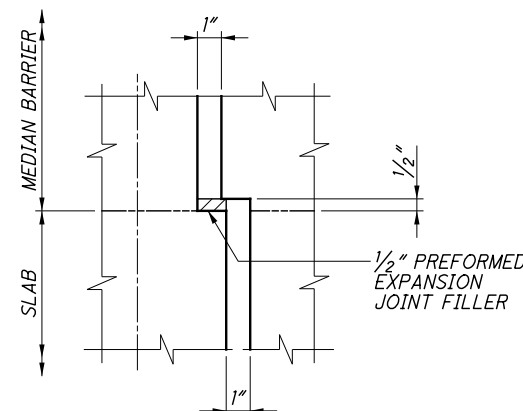


SECTION E-E

EXISTING HORIZONTAL RAILING BARS
ARE #5 BARS TO REMAIN. ROTATE
S508 BARS AS NECESSARY TO FIT.



SECTION B-B

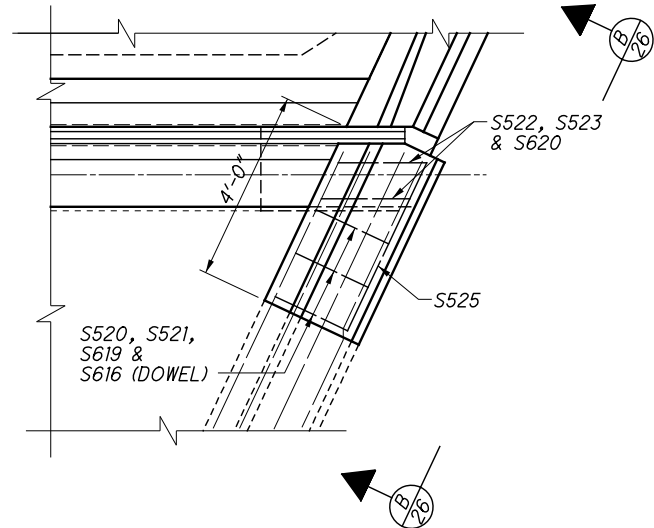
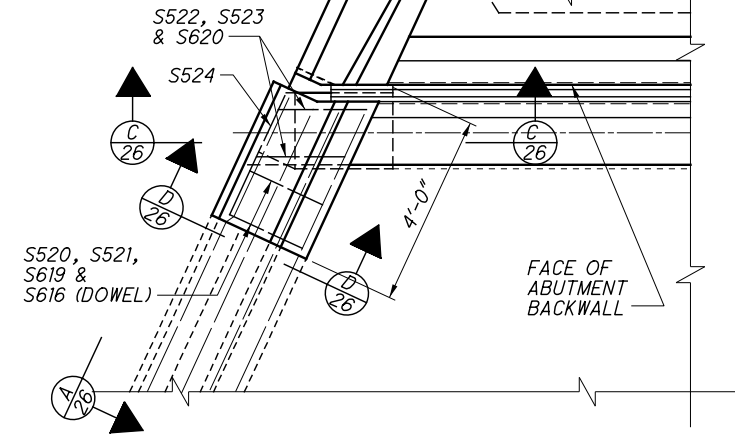


DETAIL Z

1	7/12/21	REVISE NOTE

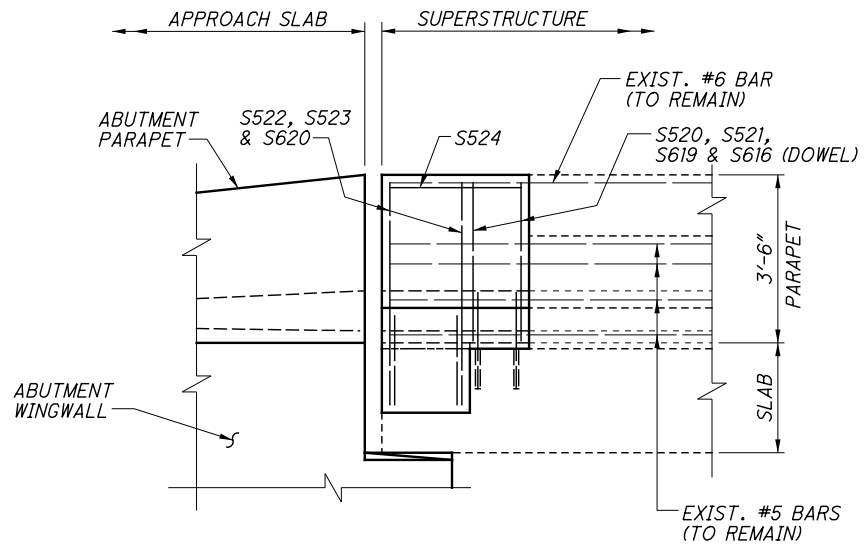
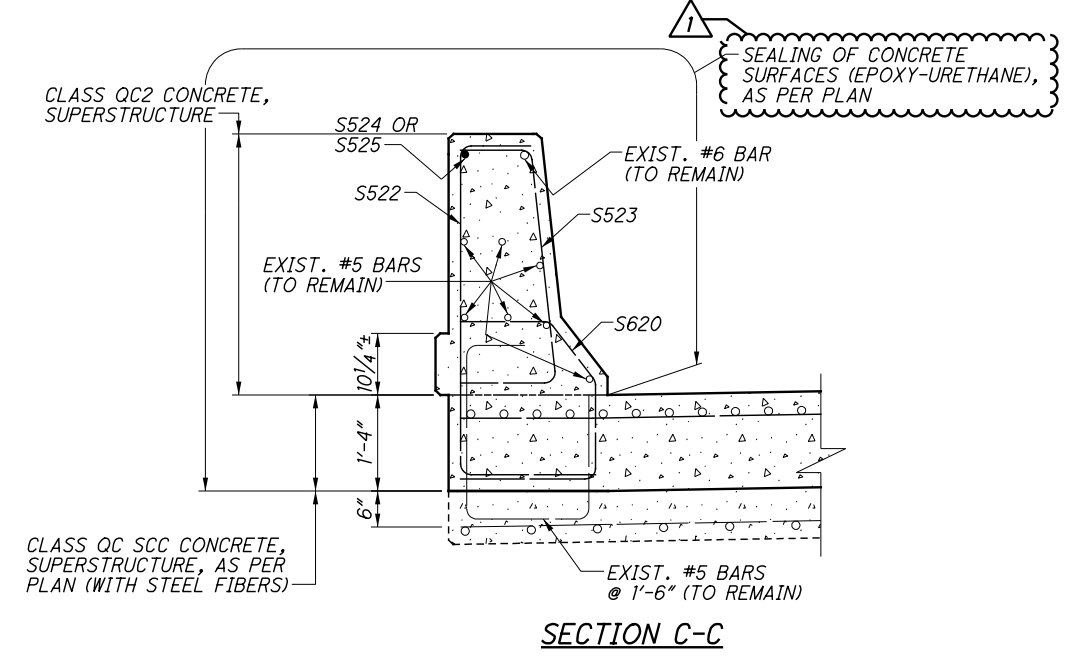
NOTES
MEDIAN BARRIER CONCRETE ON THE SUPERSTRUCTURE SHALL BE ITEM 511 - CLASS QC SCC CONCRETE, SUPERSTRUCTURE, AS PER PLAN (WITH STEEL FIBERS).

F:\2019\19034 VAR-Dist 12 Cuyahoga Co. Bridge Rehab Designs\ProjectData\111603\Design\Structures\CUY071_1640C\Sheets\071_1640RA003.dgn 9/10/2021 10:08:38 AM rbrokaw

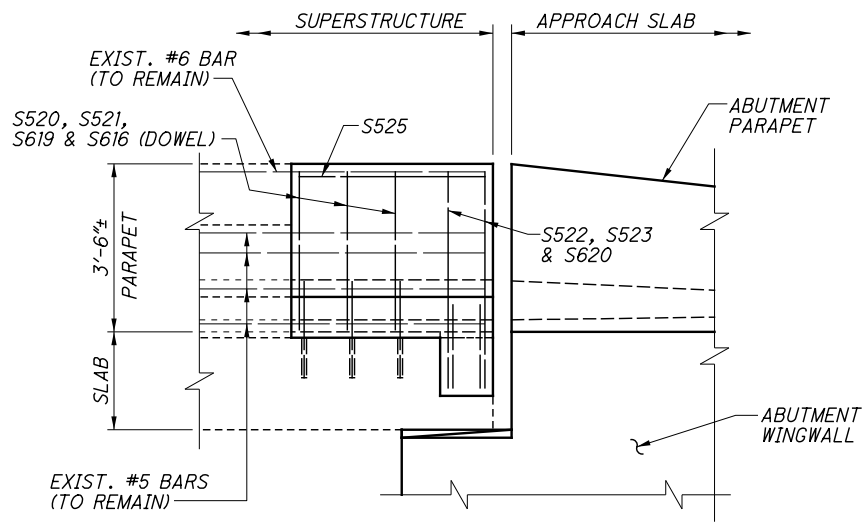


TYPICAL PARAPET AT ABUTMENT JOINTS

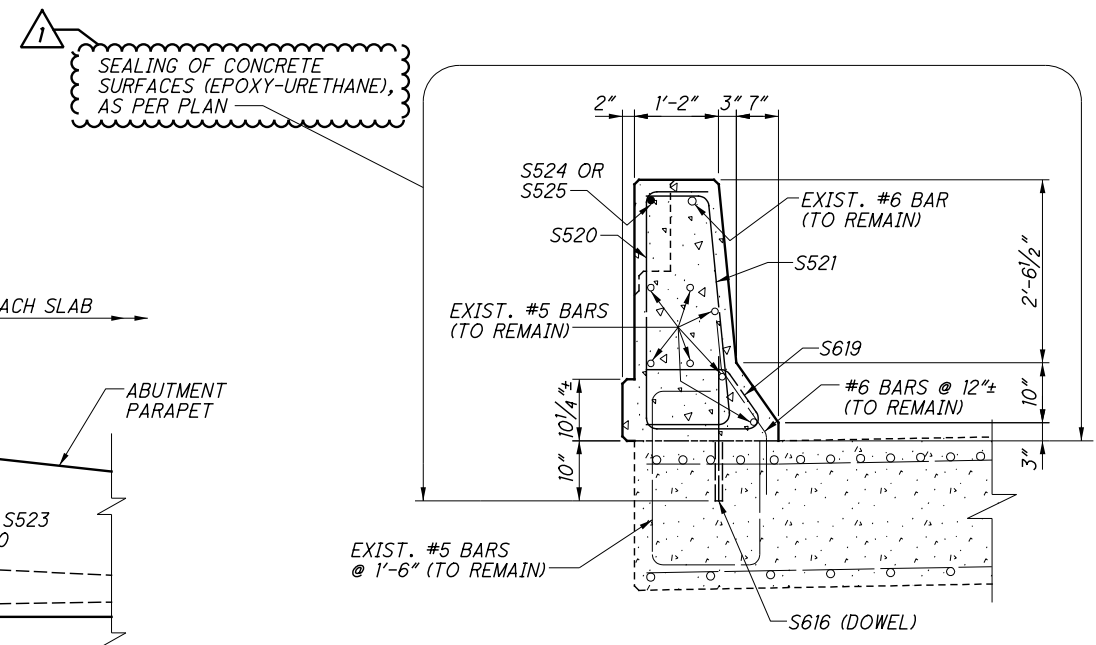
FORWARD ABUTMENT JOINT - SHOWN
REAR ABUTMENT JOINT - SIMILAR



VIEW A-A



VIEW B-B



SECTION D-D

1	7/12/21	ADD NOTE