#### DUST CONTROL

 $\bigcirc$ 

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

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

<u>200</u> 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

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

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)

<u>4</u> 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)

<u>6</u> SNMT

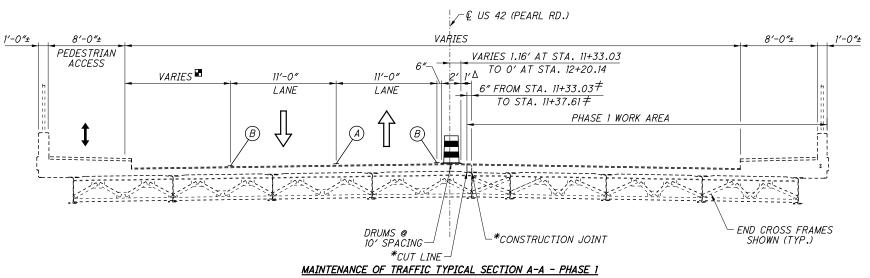
					<i>6</i>	614 							6	42			
STAT	TION	SIDE	WORK ZONE CENTER LINE, CLASS I, 740.06, TYPE I	WORK ZONE EDGE LINE, HI CLASS I, 4", 740.06,	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 740.06, TYPE I	WORK ZONE BOTTED LINE, CLASS I, 4", 740.06, TYPE I	WORK ZONE STOP LINE, CLASS I, 740.06, TYPE I	WORK ZONE CROSSWALK LINE, CLASS I, 740.06, TYPE I	WORK ZONE ARROW, CLASS I, 740.06, TYPE I	WORK ZONE PAVEMENT MARKING, MISC.: REMOVABLE, NON-REFLECTIVE PREFORMED BLACKOUT TAPL	EDGE LINE, 4", TYPE I	.ANE LINE, 4", TYPE I	CENTER LINE, TYPE 1	STOP LINE, TYPE I	CROSSWALK LINE, TYPE I	SHARED LANE MARKING, TYPE I	
FROM	ТО		MILE	WHITE MILE	FT	FT	FT	FT	EACH	FT	WHITE MILE	→ MILE	MILE	FT	FT	EACH	
LOCATION 2: F	DDC_DUACE 1																
10+15.11	10+57.66	L T													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																
BLACKOU																	
11+32.00	28+65.35	LT								2178.35							
W000 7505	ENERT MARKET																
WORK ZONE PAV		LT/RT						2// 00									
9+98.37 10+11.27	10+14.62 11+32.00	LIZRI				121.00		244.00									
11+32.00	11.32.00	LT				121.00	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 29+60.00	30+60.00	LT RT							6 2								
20,00.00		N I															
LOCATION	D. DUACE 2																
LOCATION 2 BLACKOU																	
11+05.35	29+03.19	RT								2247.84							
WORK ZONE PAV	<u>9+85.20</u>	RT							6								
8+88.50	9+93.50	RT			105.00												
9+98.37	10+14.62	LT/RT			7,00,00			244.00									
10+11.65	11+35.00	RT				126.00											
11+35.00		RT					11.00										
11+37.00 28+77.00	28+77.00 29+17.00	RT/LT	1740.00	3480.00		87.00											
29+17.00	30+82.00	LT			165.00	07.00											
29+40.00	30+60.00	LT			700.00				6								
LOCATION 2: F	POST PHASE 2																
PERMANENT PAV																	
10+01.46	10+11.51	LT/RT									7400 00	7400 00	1745 ^^	70.00	124.00	10	
11+32.00	28+77.00	LT/RT									2430.00	3490.00	1143.00	30.00		18	
		+			1												
		1															
		+															
					1	+	<u> </u>										
TOTALS		•		6965.52	435.00	418.00	22.00	488.00	20	4426.19		3490.00	1745.00	36.00	449.00	18	
		·	0.66	1.32							0.66	0.66	0.33				
CONVERT TO MILES															1		

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BRIDGE NO. CUY-042-1457 (US 42 [PEARL RD.] OVER NORFOLK SOUTHERN RAILWAY) STA. 11+32.83 TO STA. 12+20.14

'(TYP.)

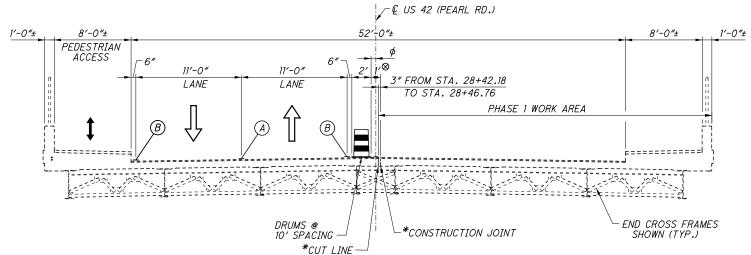
WORK ZONE CROSSWALK MARKING DETAIL

(LONGITUDINAL AND TRANSVERSE LINES)

2'-0"

(TYP.)

FINAL CROSSWALK MARKING DETAIL (LONGITUDINAL LINES ONLY)



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
  - ♥ VARIES O' 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)

#### NOTES:

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

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**SPEED** 

STA. 18+62.9±,

Q<u>√</u>0

MAY USE FULL LANE STA. 17+15.3±, 38.3'± LT. (LIGHT POLE MOUNTED) (DO NOT DISTURB)

Z00 | **⇒** 

STA. 14+50.5±,

38.3'± LT.

(LIGHT POLE MOUNTED)

(DO NOT DISTURB)

(S-7)

36.1'± RT. (LIGHT POLE MOUNTED) (DO NOT DISTURB)

(5-8)

(5-9)



Ø₩0

MAY USE FULL LANE

STA. 9+94.3±, 32.8′± LT.

(GROUND MOUNTED)

(DO NOT DISTURB)

STA. 9+86.2±,

38.8'± RT.

(GROUND MOUNTED)

(REMOVE AND

REERECT)≠

SPEED LIMIT

STA. 12+26.2±,

37.6'± LT. (LIGHT POLE MOUNTED)

(DO NOT DISTURB)

#### MOT PAVEMENT MARKING LEGEND

(A) ITEM 614 - WORK ZONE CENTER LINE (DOUBLE, SOLID)

-COVER IN PHASE 1

Z00

 $\Diamond$ 

STA. 8+56.8±, 43.7′± RT.

(LIGHT POLE MOUNTED)

(DO NOT DISTURB)

Ø₩

MAY USE FULL LANE

STA. 9+35.2±,

42.6'± RT.

(POLE MOUNTED)

(DO NOT DISTURB)

(5-2)

Pearl

STA. 9+82.6±, 32.6′± LT.

(LIGHT POLE MOUNTED) (DO NOT\_DISTURB)

(S-3)

SHARE THE ROAD

W16-1P-18

STA. 7+20.00, 43'± RT.

(GROUND MOUNTED)

(TEMPORARY SIGN

TO BE ERECTED PRIOR

TO PHASE 1 AND TO BE

REMOVED AFTER PHASE 2

CONSTRUCTION)

 $\bigcirc$ 

SHARE

ROAD

W16-1P-18

STA. 12+00.00 STA. 15+00.00 STA. 18+00.00 (TEMPORARY SIGN

SUPPORT)

(7-2)

- (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)

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 <u>21</u>
- 6. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN, AND REMOVE THE SHARE THE ROAD SIGNS (WI6-IP-18). TI WORK SHALL BE INCLUDED WITH ITEM 614 MAINTAINING TRAFFIC FOR PAYMENT.



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CUY

SHARE ROAD

W16-1P-18 STA. 21+00.00 STA. 24+00.00 STA. 27+00.00 (TEMPORARY SIGN SUPPORT) (7-2)

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TO PHASE I AND TO BE REMOVED AFTER PHASE 2 CONSTRUCTION) (T-3)



35.6'± RT. (LIGHT POLE MOUNTED) (REMOVE AND REERECT) (5-10)



STA. 22+77.1±, 35.9′± LT. (LIGHT POLE MOUNTED) (DO NOT DISTURB)



STA. 25+55.9±, 38.3′± LT. (LIGHT POLE MOUNTED) (DO NOT DISTURB)



STA. 26+97.0±, 36.0′± RT. (LIGHT POLE MOUNTED) (DO NOT DISTURB)



STA. 28+35.3±, 38.3'± LT. (LIGHT POLE MOUNTED) (DO NOT DISTURB) (DO NOT DISTURB) (5-14)

NOSTOPPING



STA. 29+46.7±, STA. 30+13.1±,
28.7′± RT. 27.2′± RT.
(LIGHT POLE MOUNTED) (LIGHT POLE MOUNTED) (DO NOT DISTURB)

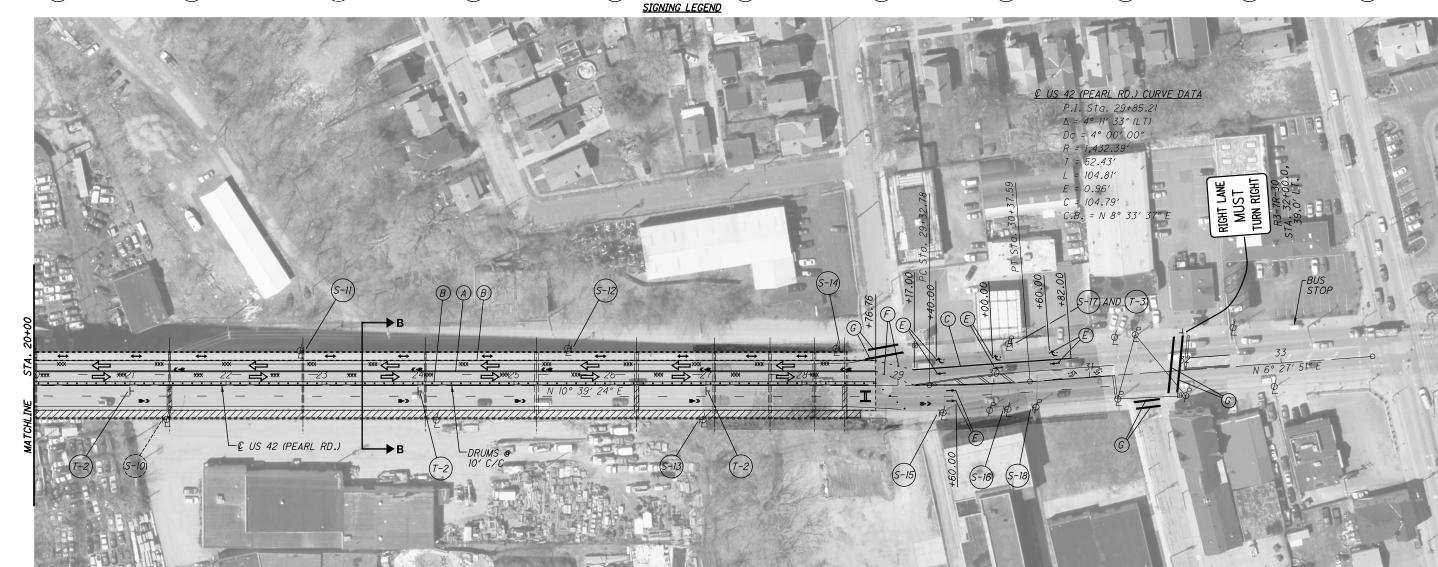


(POLE MOUNTED)

(5-17)

BUS STOP NO PARKING ANY STA. 30+42.0±, (DO NOT DISTURB)

26.9'± RT. (POLE MOUNTED) (DO NOT DISTURB) (5-18)

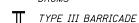


#### MOT PAVEMENT MARKING LEGEND

- (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



REMOVABLE BLACKOUT TAPE

TRAFFIC DIRECTION OF TRAVEL

PEDESTRIAN DIRECTION OF TRAVEL

A 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 (WIG-IP-18). THIS WORK SHALL BE INCLUDED WITH ITEM 614 MAINTAINING TRAFFIC FOR PAYMENT.

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5/6

**TI0** ⋖ O

.40 NO. -071-16. PID N CUY

**SPEED** 

STA. 18+62.9±, 36.1'± RT. (LIGHT POLE MOUNTED) (DO NOT DISTURB)

(DO NOT DISTURB)

(5-8)

(5-9)

Q√0 Z00 | **⇒** MAY USE FULL LANE STA. 14+50.5±, STA. 17+15.3±, 38.3'± LT. (LIGHT POLE MOUNTED) 38.3'± LT.

(LIGHT POLE MOUNTED)

(DO NOT DISTURB)

(S-7)

37.6'± LT. (LIGHT POLE MOUNTED) (DO NOT DISTURB)

SPEED LIMIT

25

STA. 12+26.2±,

(S-5)

<u>SIGNING LEGEND</u>

RTA

STA. 9+86.2±,

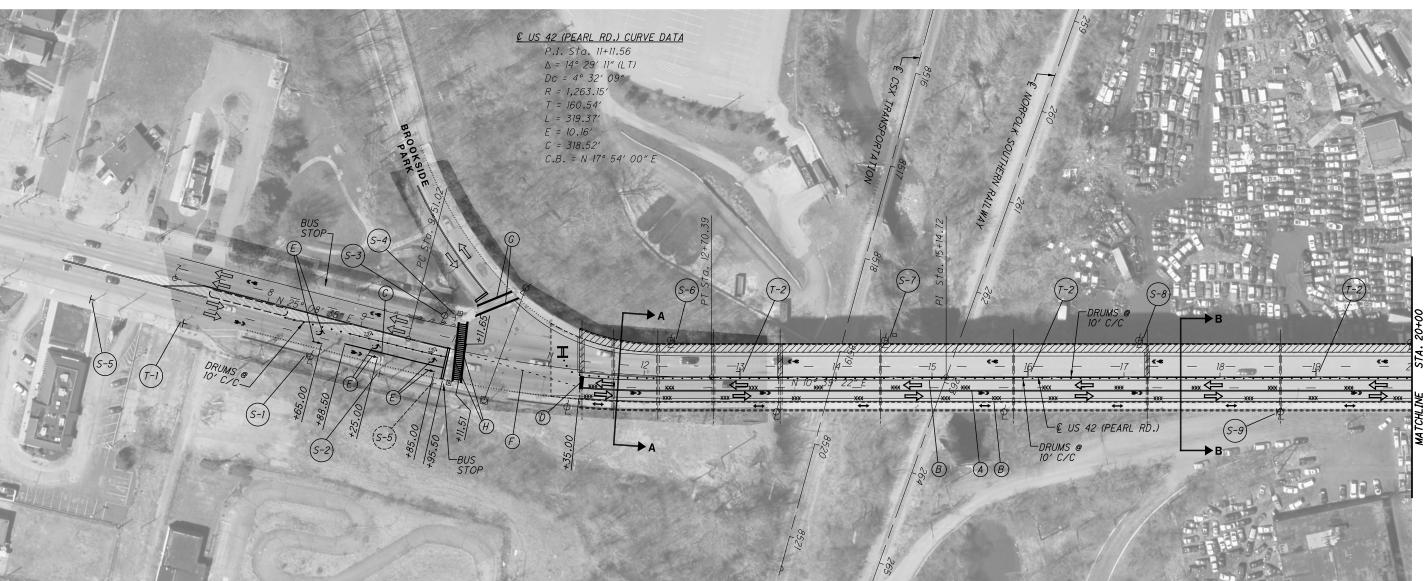
38.8'± RT.

(GROUND MOUNTED)

(REMOVE AND

DURING PHASE 1) +

REERECT AT STA. 6+20.00 RT



Ø₩0

MAY USE FULL LANE

STA. 9+94.3±, 32.8′± LT.

(GROUND MOUNTED)

(DO NOT DISTURB)

#### MOT PAVEMENT MARKING LEGEND

(A) ITEM 614 - WORK ZONE CENTER LINE (DOUBLE, SOLID)

-COVER IN PHASE 2

Z00

 $\Diamond$ 

STA. 8+56.8±, 43.7′± RT.

(LIGHT POLE MOUNTED)

(DO NOT DISTURB)

Ø₩D

MAY USE FULL LANE

STA. 9+35.2±,

42.6'± RT.

(POLE MOUNTED)

(DO NOT DISTURB)

(5-2)

Pearl

STA. 9+82.6±, 32.6′± LT.

(LIGHT POLE MOUNTED) (DO NOT\_DISTURB)

(S-3)

SHARE

THE ROAD

W16-1P-18

STA. 7+20.00, 43'± RT.

(GROUND MOUNTED)

(TEMPORARY SIGN TO BE

ERECTED PRIOR

TO PHASE 1 AND TO BE

REMOVED AFTER PHASE 2

CONSTRUCTION)

 $\bigcirc$ 

 $\bigcirc$ 

SHARE

ROAD

W16-1P-18

STA. 13+00.00 STA. 16+00.00 STA. 19+00.00 (TEMPORARY SIGN

SUPPORT)

(7-2)

- (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)

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 MOVE THE SIGN TO THE ORIGINAL LOCATION UPON COMPLETION OF THE PROJECT. THIS WORK SHALL BE INCLUDED WITH ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND REERECTION, AS PER PLAN FOR PAYMENT.

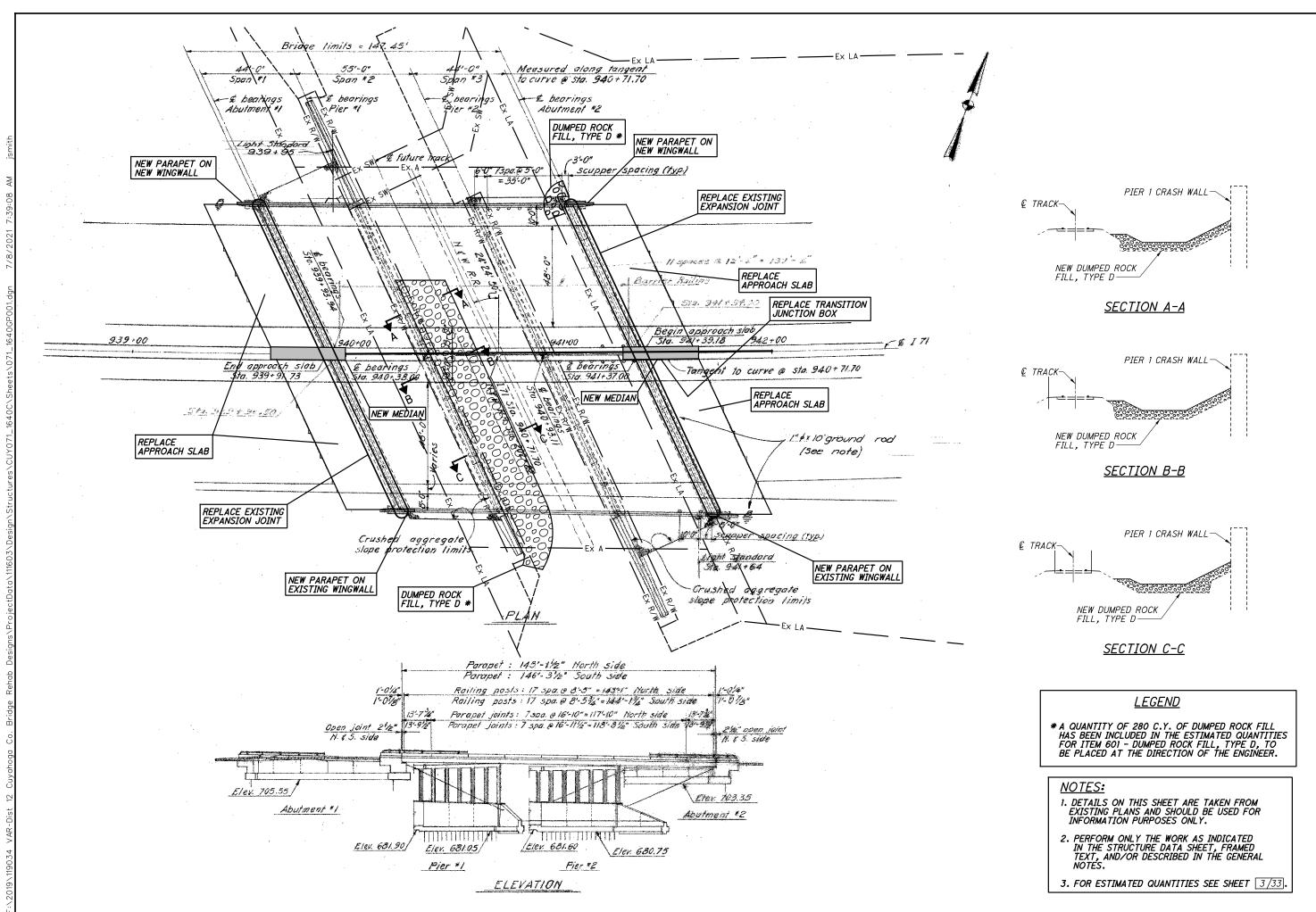
#### **NOTES:**

- 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 A-A AND SECTION B-B SEE SHEET 24
- 5. FOR CROSSWALK MARKING DETAILS SEE SHEET <u>21</u>
- 6. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN, AND REMOVE THE SHARE THE ROAD SIGNS (W16-1P-18). TH WORK SHALL BE INCLUDED WITH ITEM 614 MAINTAINING TRAFFIC FOR PAYMENT.



		SHEE	T NUN	MBER		ITEM	ITEM	PARTICIPATION GRAN	UNIT	DESCRIPTION	SEE
5-8	9-36	40-44	46-50	51-90	91-123		EXT.	TOTA	<b>-</b>		NO
										TRAFFIC CONTROL	
	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	
	2.22					242	22122	0.00		EDOS / IVIS - AW TYPE 1	
	0.66					642	00100 00104	0.66	MILE MILE	EDGE LINE, 4", TYPE 1	
	3.82 0.66					642	00200	3.82	MILE	EDGE LINE, 6", TYPE 1 LANE LINE, 4", TYPE 1	
	0.00					642	00200	0.00	MILE	LANE LINE, 4, TIFE I	
	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	
1	36					642	00500	36	FT	STOP LINE, TYPE 1	
	449					642	00600	449	FT	CROSSWALK LINE, TYPE 1	
V	161					642	00700	101	СТ	TRANSVERSE/DIAGONAL LINE, TYPE 1	
	5320					642	00700 01510	<u>161</u> 5320	FT FT	DOTTED LINE, 6", TYPE 1	
	5320 18	-				642	19000	5320	EACH	SHARED LANE MARKING, TYPE 1	+
	10					042	13000	10	LACIT	STANLD LANE MARKING, THE T	
										CTDUOTUDE DED LID (OUIV AAA AAAT CEN 1904901 - 1 COLTTON II)	
			LS			202	11202	LS		STRUCTURE REPAIR (CUY-008-0127, SFN 1801201 - LOCATION 1) PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN	
,			462			513	21599	462	LB	STRUCTURAL STEEL FOR REHABILITATION	
			LS			513	00100	LS	LD	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	
							00000	20		TILLE TAINTING STROUTGRAE 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	75267	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	53
				140		370	01501	170	1 1	REPLACEMENT PIERS 4 & 14 JOINTS)	- 55
1				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
		1	1							INCLUDING SCOTTENS AND DOMINSTOUTS	
					1 1	1 1	11101	413	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	54
				413		519	11101				1 -
				8		519	12300	8	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B	54
						519		8 17792	SY SF	PATCHING CONCRETE BRIDGE DECK - TYPE B  STRUCTURES: TIMBER SUBDECK	54
				8		519	12300	-			
				8		519	12300	-			
				8		519	12300	-			
				8		519	12300	-			
				8		519	12300	-			
				8		519	12300	-			
				8		519	12300	-			

 			SHEE	ET NUN	/BER		 ITEM		PARTICII	GRANI	UNIT	DESCRIPTION	SEE SHEE	
	5-8	9-36	40-44	46-50	51-90	91-123	7	EXT.		TOTA	-  51111	DESCRIPTION	NO.	. LALC
												STRUCTURE REPAIR (CUY-071-1640, SFN 1805223 - LOCATION 4)		$\Box$
						LS	202	11203		LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	92	
						806	202	22900 23500		806	SY	APPROACH SLAB REMOVED  WEARING COURSE REMOVED		_
						392 LS	503	21300		392 LS	SY	UNCLASSIFIED EXCAVATION		_
						21137	509	10000		21137	LB	EPOXY COATED REINFORCING STEEL		
						1150	510	10000		1150	FACU	DOWEL HOLES WITH NON CURING MONNETALLIS CROUT		4
						1152 9	510 511	10000 34410		1152 9	EACH CY	DOWEL HOLES WITH NON SHRINK, NONMETALLIC GROUT  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	<u>-</u>
						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		$\dashv$
						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		4
												MAINTENANCE OF TRAFFIC		4
		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)		$\dashv$
		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		$\dashv$
		30					614	13360		30	EACH	OBJECT MARKER, TWO WAY		
		9055					614	18030		9055	FT	MAINTAINING TRAFFIC, MISC.: RUMBLE STRIPS REMOVAL	12	
		10					614	18601		10	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	13	4
		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		4
		42089					614	23410		42089	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 740.06, TYPE I		$\dashv$
		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		4
		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		$\Box$
		4627					614	98100		4627	FT	WORK ZONE PAVEMENT MARKING, MISC.: REMOVABLE, NON-REFLECTIVE PREFORMED BLACKOUT TAP	PE 13	
		LS 412					615 615	10000 20000		LS 412	SY	ROADS FOR MAINTAINING TRAFFIC  PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A		
		412					013	20000		412	31	FAVEMENT FOR MAINTAINING TRAFFIC, CLASS A		$\dashv$
		1					616	10000		1	MGAL	WATER		
		2					622	41050		2	EACH	PORTABLE BARRIER, "Y" CONNECTOR		_
		4431					622	41100		4431	FT	PORTABLE BARRIER, UNANCHORED		
														1
							108	10000		LS		INCIDENTALS  CPM PROGRESS SCHEDULE		
		LS					614	11000	+ +	LS		MAINTAINING TRAFFIC		
	9						619	16011		9	MNTH		7	$\dashv$
	LS						623	10001		LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	7	亅
 	_	1	T T	T	T		624	10000		LS		MOBILIZATION	T	



V - LOCATION V CUY-71-1640 K SOUTHERN RAILV

REPAIR 111603 -071-16.40/VAR ° N PID

CUY

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				ESTIMATED QUANTITIES		ULATED ECKED	DLR D	ATED 07/21 ATED 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		
511 511	34417	<del>9</del> 	CY	CLASS QC SCC CONCRETE, SUPERSTRUCTURE, AS PER PLAN (WITH STEEL FIBERS)	25	42		2/33
511	45710	15	CY	CLASS QCI CONCRETE, SUPERSTRUCTURE, AS PER FLAN (WITH STEEL FIBERS)	25	15		[2/33]
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 ESTIMATED QUANTIITES - LOCATION 4

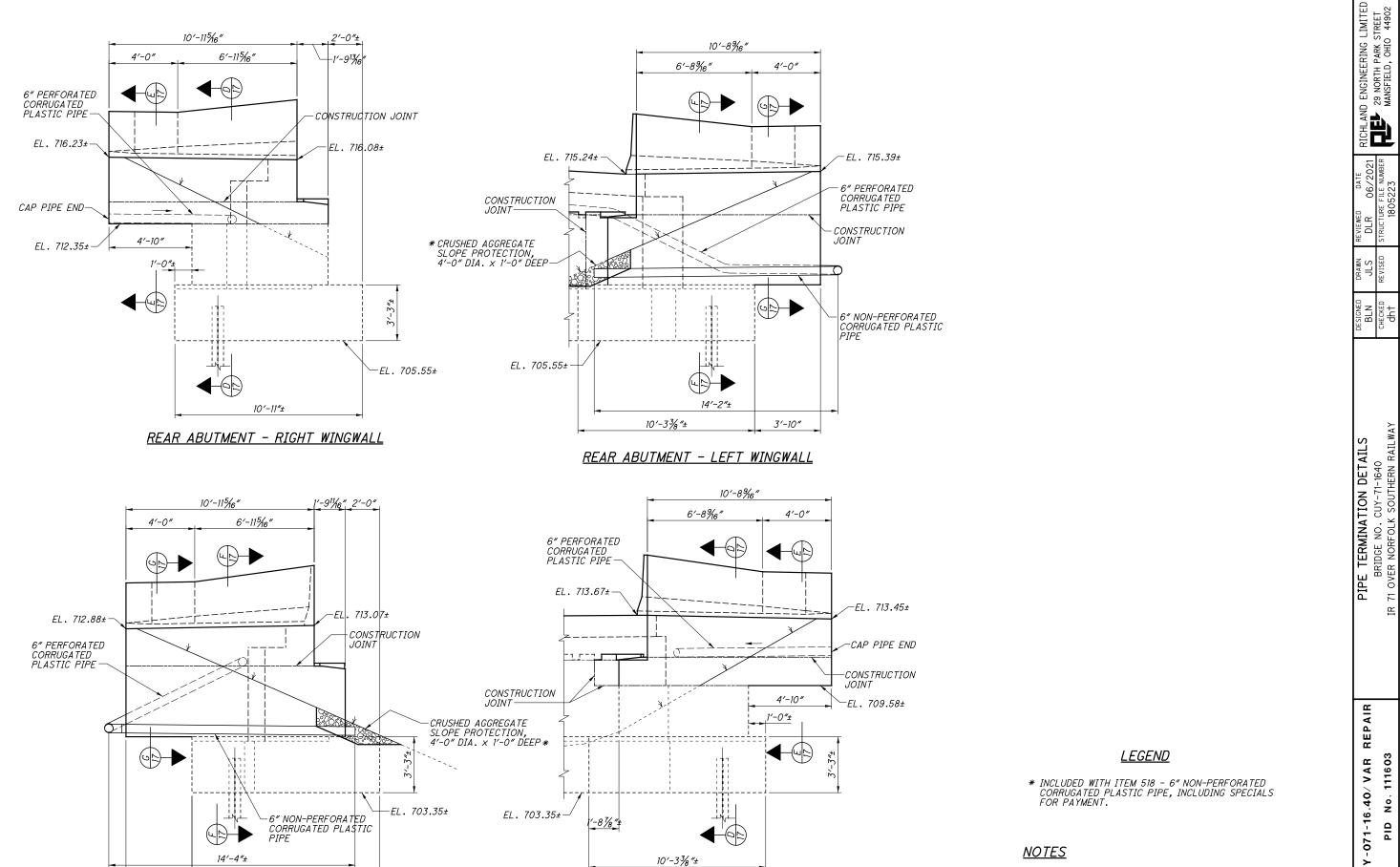
BRIDGE NO. CUY-71-1640

IR 71 OVER NORFOLK SOUTHERN RAILWAY

> CUY-071-16.40/ VAR REPAIR PID No. 111603

3/33





FORWARD ABUTMENT - RIGHT WINGWALL

 $\bigcirc$ 

3'-10"

10′-11″±

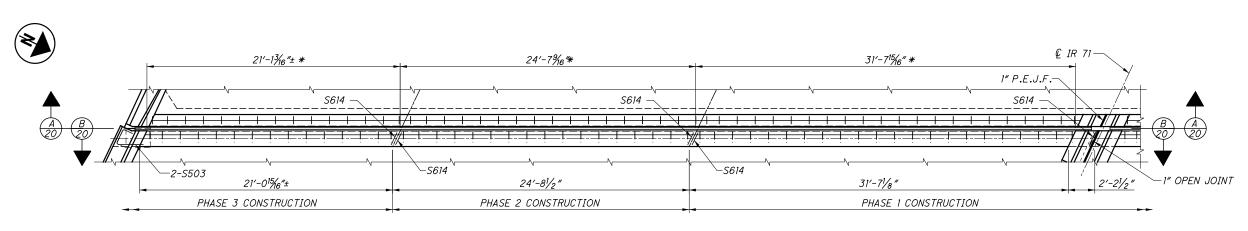
FORWARD ABUTMENT - LEFT WINGWALL

**19** 33

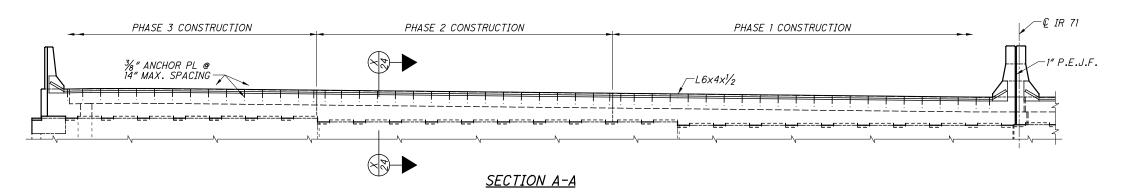
109 123

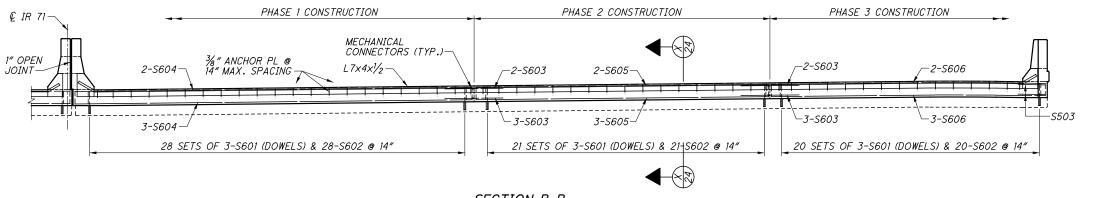
<u>**ELEVATIONS**</u> SHOWN ARE BASED ON ORIGINAL AND REHAB PLANS AND ARE FOR INFORMATIONAL PURPOSES ONLY.

CONTRACTOR SHALL MATCH EXISTING.



# <u>REAR ABUTMENT JOINT PLAN - RIGHT BRIDGE</u>





### SECTION B-B

# **LEGEND**

\* MEASURED ALONG EDGE OF DECK JOINT

#### <u>NOTES</u>

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

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

ABUTMENT REINFORCING: SEE SHEET 12/33.

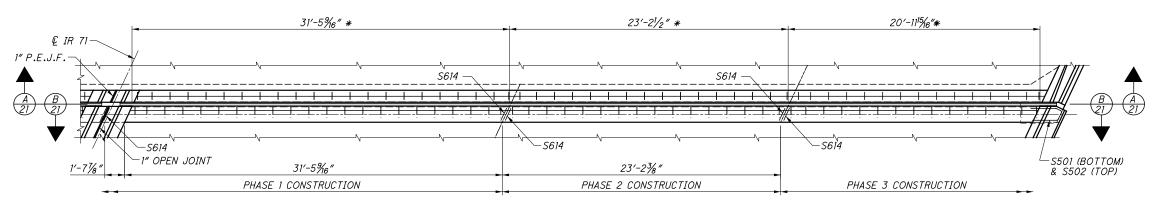
PARAPET & MEDIAN BARRIER DETAILS & REINFORING: SEE SHEETS 25/33 & 26/33.

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

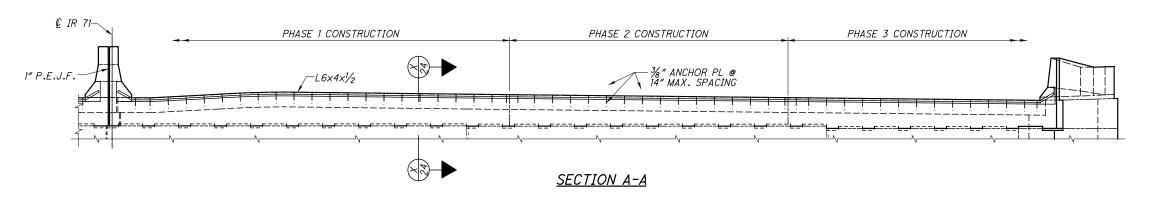
21/33

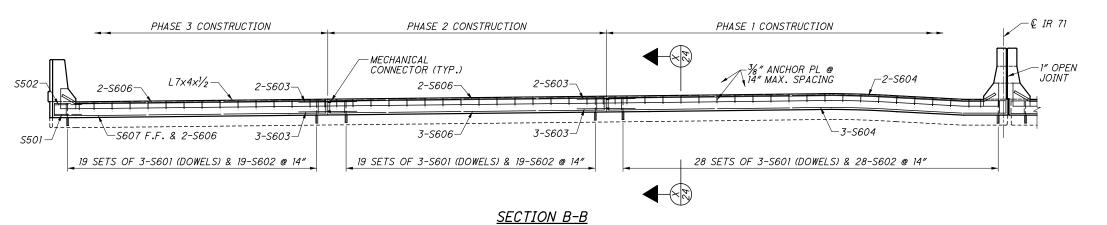
123





### REAR ABUTMENT JOINT PLAN - LEFT BRIDGE





### <u>LEGEND</u>

\* MEASURED ALONG EDGE OF DECK JOINT

### <u>NOTES</u>

ABUTMENT REINFORCING: SEE SHEET 13/33.

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

ADDITIONAL NOTES: SEE SHEET 20/33.

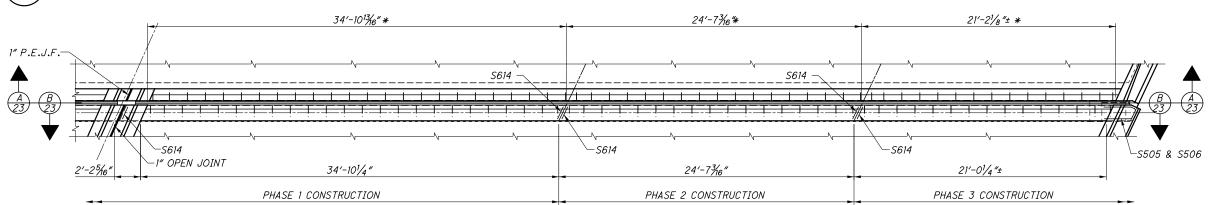
CUY-071-16.40/ VAR PID No. 111603

22/33

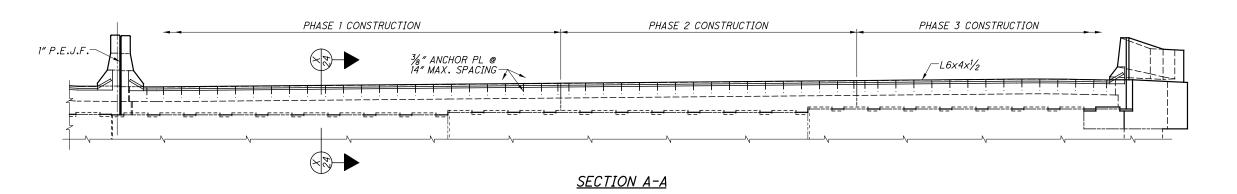
ABUTMENT REINFORCING: SEE SHEET 14/33.

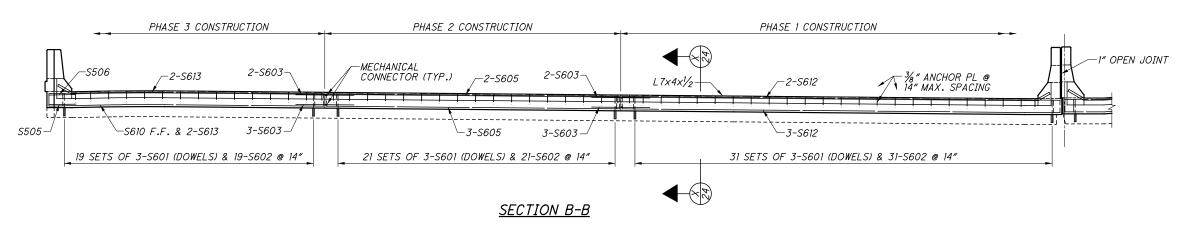
ADDITIONAL NOTES: SEE SHEET 20/33.





# FORWARD ABUTMENT JOINT PLAN - RIGHT BRIDGE





### <u>LEGEND</u>

\* MEASURED ALONG EDGE OF DECK JOINT

### <u>NOTES</u>

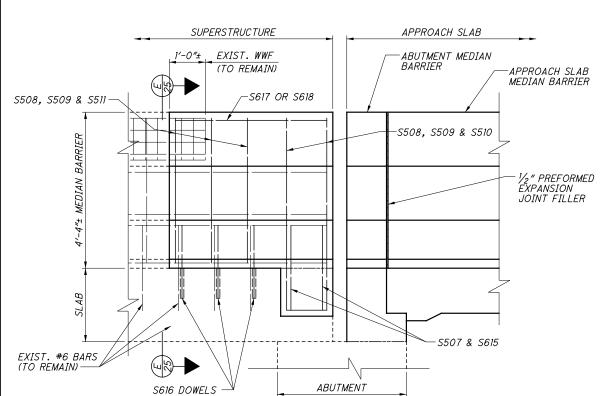
ABUTMENT REINFORCING: SEE SHEET 15/33.

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

ADDITIONAL NOTES: SEE SHEET 20/33.

# MEDIAN BARRIER PLAN AT ABUTMENT JOINTS

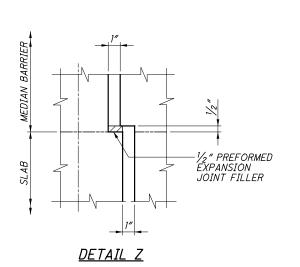
FORWARD ABUTMENT JOINT - SHOWN REAR ABUTMENT JOINT - SIMILAR

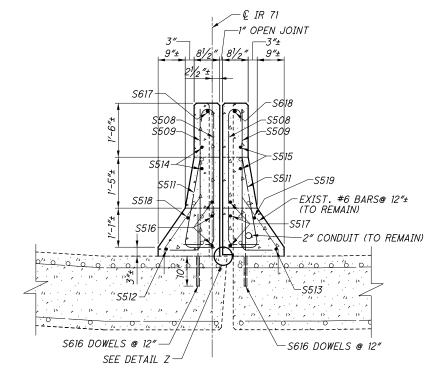


SECTION B-B

# 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.

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

<u>NOTES</u>

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-071-16.40/VAR

REPAIR

AND ENGINEERING LIMITED 29 NORTH PARK STREET MANSFIELD, OHIO 44902

RICHLAN

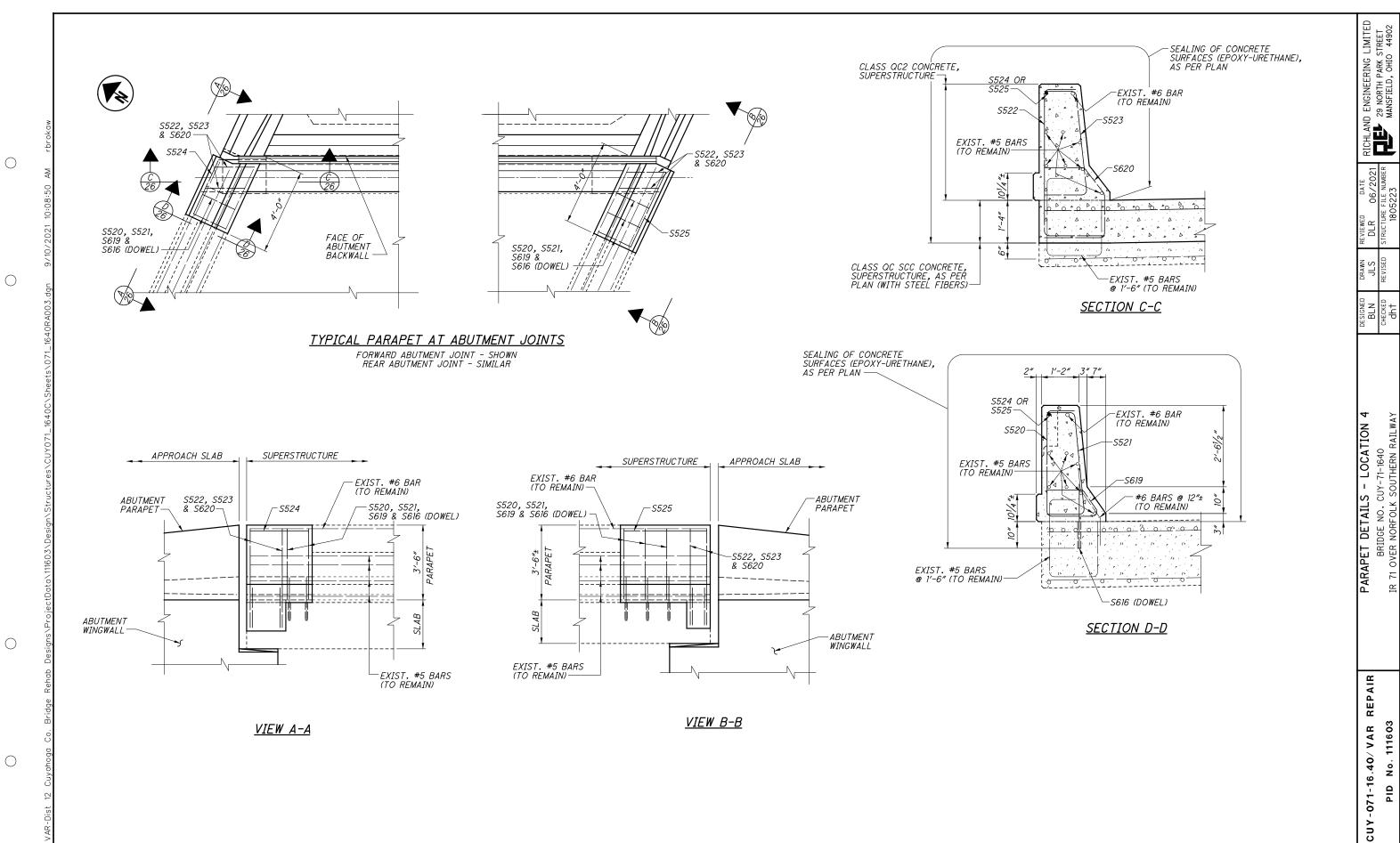
SIGNED

MEDIAN BARRIER DETAILS - LOCATION BRIDGE NO. CUY-71-1640 IR 71 OVER NORFOLK SOUTHERN RAILWAY

CUY

25/33

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26/33