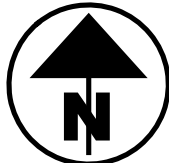




LOCATION MAP

LATITUDE: 41°29'30" N LONGITUDE: 81°40'20"W



PORTION TO BE IMPROVED	
INTERSTATE HIGHWAY	
FEDERAL ROUTES	
STATE ROUTES	
COUNTY & TOWNSHIP ROADS	
OTHER ROADS	

DESIGN DESIGNATION

	IR 77
CURRENT ADT (2025)	59000
DESIGN YEAR ADT (2045)	62000
DESIGN HOURLY VOLUME (2045)	5580
DIRECTIONAL DISTRIBUTION	60%
TRUCKS (24 HOUR B&C)	7%
T _D	9%
DESIGN SPEED	55 MPH
LEGAL SPEED	50 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	URBAN ARTERIAL INTERSTATE
NHS PROJECT	YES

DESIGN EXCEPTIONS

DESIGN FEATURE:	APPROVAL DATES	SHEET NUMBERS
SHOULDER WIDTH	02-04-25	10-15
SHOULDER WIDTH	02-04-25	16

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES

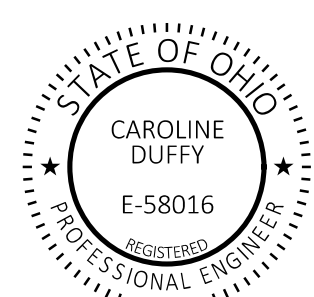
Contact Two Working Days Before You Dig

 **OHIO811.org**
Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

ENGINEER'S SEAL

LIGHTING



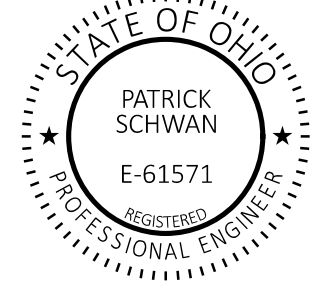
ENGINEER'S SEAL

STRUCTURE CUY-77-15.62



ENGINEER'S SEAL

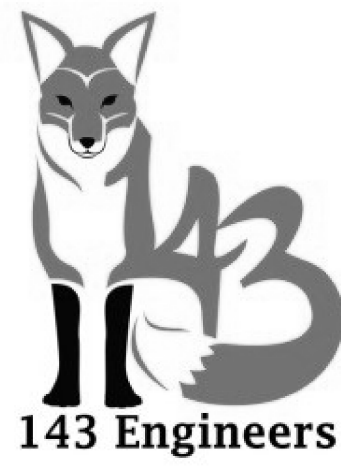
ROADWAY, MOT, DRAINAGE, TRAFFIC CONTROL



RELAND ENGINEERING LTD
A WALLACEPANCHER GROUP COMPANY

29 NORTH PARK STREET
MANSFIELD OHIO 44902
PHONE: (419) 524-0074
www.wallacepancher.com

PLAN PREPARED BY:



STANDARD CONSTRUCTION DRAWINGS

BP-2.1	1-21-22	MGS-2.1	7-18-25	TC-64.10	7-21-23	MT-101.70	7-19-24	DM-1.1	1-17-25	AS-1-15	1-20-23
BP-3.1	1-19-24	MGS-3.1	7-18-25	TC-65.10	1-17-14	MT-101.75	7-21-23	DM-1.2	1-17-25	AS-2-15	7-21-23
BP-5.1	7-18-25	MGS-3.2	7-18-25	TC-65.11	1-17-25	MT-101.80	1-17-20	DM-1.3	7-18-14	EXJ-4-87	1-19-24
BP-9.1	1-18-19	MGS-4.2	7-18-25	TC-71.10	7-18-25	MT-102.10	7-21-23	DM-4.1	7-17-20	GSD-1-19	7-19-24
BP-9.2	1-15-21	MGS-4.3	7-18-25	TC-72.20	7-18-25	MT-102.20	4-19-19	DM-4.3	1-15-16	PCB-91	7-17-20
		MGS-6.1	1-19-18	TC-74.10	7-21-23	MT-102.30	10-16-15	DM-4.4	1-15-16	SBR-1-20	7-19-24
RM-1.1	1-20-23					MT-103.10	7-18-25			SBR-2-20	7-19-24
RM-3.1	7-20-18	TC-15.116	1-19-24	MT-95.30	7-19-19	MT-105.10	1-17-20	HL-40.10	7-19-24		
RM-4.2	7-18-25	TC-21.11	7-16-21	MT-95.31	7-19-19	MT-110.10	7-19-13	HL-40.20	7-18-25		
RM-4.3	7-18-25	TC-21.50	1-17-25	MT-95.32	4-19-19			HL-50.21	7-15-22		
RM-4.4	1-17-25	TC-22.10	1-17-25	MT-95.40	7-21-23	CB-1	7-19-24	HL-60.11	7-21-17		
RM-4.5	7-18-25	TC-22.20	1-17-14	MT-95.41	7-21-23	CB-3	7-19-24	HL-60.12	7-21-23		
RM-4.6	7-18-25	TC-41.20	10-18-13	MT-95.45	7-21-23	CB-3A	7-19-24	HL-60.21	7-20-18		
RM-4.7	1-17-25	TC-41.30	4-21-23	MT-95.50	7-21-17	CB-5	7-19-24				
		TC-42.20	10-18-13	MT-98.29	1-17-20						
LA-1.1	10-15-10	TC-52.10	10-18-13	MT-98.30	7-16-21	I-3C1	1-17-25				
		TC-52.20	1-15-21	MT-99.20	4-19-19						
HW-2.1	7-15-22	TC-61.10	4-21-23	MT-99.30	1-17-20	MH-1	7-15-22				
HW-2.2	7-20-18	TC-61.30	7-19-24	MT-99.60	7-19-24	MH-3	7-19-24				
				MT-101.60	1-17-25						

SUPPLEMENTAL SPECIFICATIONS

SPECIAL PROVISIONS

4	12/12/25	ADD SCD HL-50.21


John Picuri, P.E., P.S.
District 12 Deputy Director


Pamela Boratyn
Director, Department of Transportation

FEDERAL PROJECT NUMBER

E230 (831)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

THE PROJECT CONSISTS OF REPLACEMENT OF DETERIORATED BRIDGE DECKS OVER WOODLAND AVENUE, EAST 22nd STREET, AND EAST 14th STREET IN THE CITY OF CLEVELAND, INCLUDING MINOR APPROACH PAVEMENT, GRADING, LIGHTING, AND TRAFFIC CONTROL.

PROJECT LENGTH = 0.34 MILES.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 2.0 ACRES

ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 1.3 ACRES

NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI NOT REQUIRED)*

* ROUTINE MAINTENANCE PROJECT

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY, OR FREEWAY, BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF IR 77 EXCEPT FOR THE RAMPS AT WOODLAND AVE., E. 22nd ST., AND E. 14th ST. AS DESCRIBED ON SHEETS 94-107 AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.



ASBESTOS NOTIFICATION

A CERTIFIED ASBESTOS HAZARD EVALUATION SPECIALIST SURVEYED THE BRIDGE STRUCTURES SCHEDULED FOR DEMOLITION AND/OR REHABILITATION; THE SURVEY DETERMINED THAT NO ASBESTOS IS PRESENT ON THE BRIDGE STRUCTURES.

ODOT SHALL PROVIDE A COPY OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY (OEPA) NOTIFICATION OF DEMOLITION AND RENOVATION FORM, PARTIALLY COMPLETED AND SIGNED BY THE BRIDGE OWNER, TO THE SUCCESSFUL BIDDER. THE CONTRACTOR SHALL COMPLETE THE FORM AND SUBMIT IT TO ONE OF THE ADDRESSES BELOW AT LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION AND/OR RENOVATION.

ASBESTOS PROGRAM
OHIO EPA, DAPC
P.O. BOX 1049
COLUMBUS, OH 43216-1049

OR

ASBESTOS PROGRAM
OHIO EPA, DAPC
50 W. TOWN ST., SUITE 700
COLUMBUS, OH 43215

THE CONTRACTOR SHALL PROVIDE A COPY OF THE COMPLETED FORM TO THE ENGINEER AT LEAST TEN (10) WORKING DAYS PRIOR TO THE START OF ANY DEMOLITION AND/OR RENOVATION. THE FORM SHALL INCLUDE: 1) THE CONTRACTORS NAME AND ADDRESS, 2) THE SCHEDULED DATES FOR THE START AND COMPLETION OF THE BRIDGE REMOVAL AND 3) A DESCRIPTION OF THE PLANNED DEMOLITION WORK AND THE METHOD(S) TO BE USED. COPIES OF THE OEPA FORM AND BRIDGE INSPECTION REPORT ARE AVAILABLE FOR REVIEW AT THE ODOT DISTRICT 12 OFFICE, 5500 TRANSPORTATION BOULEVARD, GARFIELD HEIGHTS, OHIO 44125.

BASIS FOR PAYMENT: THE CONTRACTOR SHALL FURNISH ALL FEES, LABOR, AND MATERIAL NECESSARY TO COMPLETE AND SUBMIT THE OEPA NOTIFICATION FORM. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN:

ITEM 202 - PORTIONS OF STRUCTURE REMOVED,
OVER 20 FOOT SPAN, AS PER PLAN.

ASPHALT CONCRETE SURFACE COURSE SEALING REQUIREMENTS

IN ADDITION TO THE GUTTER SEALING REQUIREMENTS SPECIFIED IN SCD BP-3.1 AND C&MS 401.08, AFTER COMPLETION OF THE SURFACE COURSE, THE CONTRACTOR SHALL USE A CERTIFIED 702.01 PG BINDER TO SEAL THE FOLLOWING LOCATIONS:

- ALL CASTINGS INCLUDING BUT NOT LIMITED TO MONUMENTS, MANHOLES, WATER VALVES, CATCH BASINS, CURB INLETS.
- BUTT JOINTS AND FEATHER JOINTS INCLUDING BRIDGE APPROACHES.
- FORWARD JOINT FOR DRIVEWAY ASPHALT AND TRAILING JOINT WHEN BUTTING TO EXISTING ASPHALT DRIVE.
- PERIMETER OF ALL PAVEMENT REPAIRS OR OTHER ASPHALT INLAYS WHEN PAVEMENT REPAIRS/INLAYS ARE NOT OVERLAID WITH AN ASPHALT CONCRETE SURFACE COURSE.
- ALL COLD LONGITUDINAL JOINTS BETWEEN PAVED SHOULDERS AND GUARDRAIL ASPHALT.

THE MATERIAL USED SHALL BE A CERTIFIED 702.01 PG BINDER. THE WIDTH OF THE SEALER SHALL BE 2-3 INCHES.

ANY ADDITIONAL COSTS ASSOCIATED WITH THE WORK IDENTIFIED IN THIS NOTE SHALL BE INCLUDED IN THE APPROPRIATE ASPHALT CONCRETE SURFACE COURSE ITEM OF WORK.

STAGING AREAS

THERE ARE NO SPECIFIC AREAS GIVEN IN THE PLANS FOR THE CONTRACTOR TO USE AS A STAGING AREA(S). IF THE CONTRACTOR WANTS TO USE AN AREA(S) FOR STAGING, REGARDLESS IF IT FALLS WITHIN THE PROJECT LIMITS OR NOT, THE CONTRACTOR IS TO USE THE RIGHT OF WAY E-PERMITTING SYSTEM AT [HTTPS://ODHCP.BEMCORP.NET/ACCOUNTS/ACCOUNT/ACCOUNT](https://odhcp.bemcorp.net/accounts/account/account) IN ORDER TO APPLY FOR A PERMIT PER SECTION 107.02 OF THE CMS. FOR SPECIFIC PERMITTING QUESTIONS, THE CONTRACTOR CAN CONTACT THE DISTRICT PERMITTING OFFICE, (MELVIN SAFFORD) AT 216-584-2137, (ANDREW TOMKO) AT 216-584-2195 OR AT DISTRICT12PERMITS@DOT.OHIO.GOV.

IF A PERMIT IS GRANTED, ALL CONDITIONS OF THE PERMIT SHALL BE MET IN ADDITION TO THE REQUIREMENTS OF 104.04 OF THE CMS, AT NO ADDITIONAL COST TO THE STATE. IF THE PROJECT ENGINEER DEEMS THAT ALL THE CONDITIONS OF THE PERMIT WERE NOT MET, THEN 10% OF THE CONTRACT BID AMOUNT FOR MOBILIZATION SHALL BE WITHHELD UNTIL ALL THE CONDITIONS OF THE PERMIT ARE SATISFIED.

ITEM 623 - CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN

AFTER COMPLETION OF ALL WORK, BUT PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, AN OHIO PROFESSIONAL SURVEYOR SHALL DETERMINE THE MINIMUM VERTICAL CLEARANCES OF ALL EXISTING AND NEW BRIDGES WITHIN THE PROJECT LIMITS. AT A MINIMUM, MEASUREMENTS SHALL BE TAKEN ALONG EACH FASCIA BEAM AT THE EDGE OF SHOULDERS, EDGE LINES, LANE LINES, AND CROWN OF THE ROADWAY BELOW. THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM SHALL BE USED, WHERE APPLICABLE, TO DOCUMENT THE MEASUREMENTS.

WHERE THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM IS NOT APPLICABLE, THE MEASUREMENTS SHALL BE DOCUMENTED ON A CONTRACTOR-DEVELOPED FORM THAT CLOSELY RESEMBLES THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM AND ACCURATELY DEPICTS THE BRIDGE AND THE LANE AND SHOULDER [AND/OR TRACK] CONFIGURATION OF THE ROADWAY [AND/OR RAILROAD] THAT PASSES BELOW THE BRIDGE.

THE COMPLETED FORM SHALL BEAR THE STAMP OR SEAL OF THE OHIO PROFESSIONAL SURVEYOR WHO HAS TAKEN THE MEASUREMENTS AND SHALL BE SUBMITTED TO THE PROJECT ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT. THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM CAN BE DOWNLOADED FROM THE FOLLOWING FTP SITE: <https://ftp.dot.state.oh.us/pub/Contracts/Attach/CUY-119380/>

PER CMS 623.04 AND 623.05, THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL EXISTING MONUMENT ASSEMBLIES, SURVEY CORNERS AND SURVEY CONTROL PRIOR TO BEGINNING ANY WORK AND AFTER PROJECT COMPLETION (IF APPLICABLE). A PRE-INSPECTION REPORT IS TO BE SUBMITTED PRIOR TO THE COMMENCEMENT OF WORK AND POST-CONSTRUCTION REPORT SUBMITTED PRIOR TO OR IN CONJUNCTION WITH THE FINAL INSPECTION TO THE DISTRICT SURVEY OPERATIONS MANAGER. EXISTING MONUMENTATION SHALL BE PRESERVED AND PERPETUATED THROUGHOUT THE PROJECT. THE DEPARTMENT'S STANDARDIZED VERIFICATION REPORT TEMPLATE CAN BE FOUND AT THE FOLLOWING LOCATION: [HTTPS://WWW.DOT.STATE.OH.US/DIVISIONS/CONSTRUCTIONMGT/DOCUMENTS](https://www.dot.state.oh.us/divisions/constructionmgt/documents)

ALL LABOR, MATERIAL, EQUIPMENT, AND INCIDENTALS NEEDED TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR ITEM 623 – CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN. ANY MONUMENT ASSEMBLY THAT IS IMMEDIATELY VISIBLE ON THE SURFACE OF THE EXISTING PAVEMENT OR IS UNCOVERED DURING THE PLANNING PROCESS SHALL BE ADJUSTED TO GRADE OR, IF SUBSTANTIAL DETERIORATION IS DETERMINED BY THE ENGINEER, RECONSTRUCTED TO GRADE.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER AND SHALL BE USED TO MAKE ADJUSTMENTS TO EXISTING MONUMENTS FOUND DURING CONSTRUCTION:

ITEM 623 - MONUMENT ASSEMBLY ADJUSTED TO GRADE 5 EACH

ITEM 623 - RIGHT OF WAY MONUMENT, TYPE B 5 EACH

EQUIPMENT AND MATERIAL STORAGE

IN ORDER TO PROVIDE FOR THE SAFETY OF THE TRAVELING PUBLIC, THE CONTRACTOR'S ATTENTION IS DIRECTED TO C&MS 614.035. IN ADDITION, THE FOLLOWING PROVISIONS SHALL APPLY:

- 1.ANY REMOVED ITEMS SHALL NOT BE STORED ON THE RIGHT OF WAY FOR MORE THAN THIRTY (30) DAYS.
- 2.THE STORAGE OF EQUIPMENT, MATERIALS, AND VEHICLES WITHIN THE HIGHWAY RIGHT OF WAY WILL BE PERMITTED. THE NUMBER OF AREAS AND EXACT LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
- 3.ALL DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE STATE.

EXISTING UNDERDRAINS

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE.

UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

SEE GENERAL NOTE ITEM SPECIAL - PIPE CLEANOUT FOR WORK REQUIRED AND PAYMENT OF PIPE CLEANOUT.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

ITEM SPECIAL - PIPE CLEANOUT, 24" AND UNDER	400 FT
ITEM 601 - TIED CONCRETE BLOCK MAT, WITH TYPE 1 UNDERLAYMENT	4 SY
ITEM 611 - 6" CONDUIT, TYPE F	50 FT
ITEM 611 - PRECAST REINFORCED CONCRETE OUTLET	2 EACH
ITEM 605 - 6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 707.33 OR 707.41	50 FT

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, NOTIFY THE ENGINEER BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE IS INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

EXISTING / PROPOSED PIPE CONNECTIONS

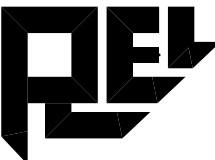
THE CONTRACTOR SHALL HAVE THE OPTION OF USING A COUPLING BAND TO JOIN EXISTING CORRUGATED METAL PIPE WITH A PROPOSED SECTION OF CORRUGATED METAL PIPE OR PLACING A CONCRETE COLLAR AS PER STANDARD CONSTRUCTION DRAWING DM-1.1. ALL OTHER PIPE CONNECTIONS SHALL HAVE A CONCRETE COLLAR AS PER STANDARD CONSTRUCTION DRAWING DM-1.1 PLACED AT THE JOINING OF EXISTING AND PROPOSED SECTIONS OF PIPE.

PROPOSED PIPE TO BE CONNECTED TO EXISTING PIPE SHALL BE OF THE SAME MATERIAL AS THE EXISTING PIPE.

ANY EXPOSED METAL FROM THE PIPE CONNECTIONS OF A CORRUGATED METAL PIPE SHALL BE GALVANIZED COATED AS PER CMS SPECIFICATION 711.02 AND INCLUDED IN THE COST OF ITEM 611.

	12/10/25	REMOVE ITEM 619 NOTE

DESIGN AGENCY



DESIGNER

ALP

REVIEWER

PRS 7-28-25

PROJECT ID

119380

SHEET

P.20

TOTAL

365

CUY-77-15.46

MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 12/12/2025 TIME: 11:16:34 AM PLT DRV: CHDOT_PDF.plt USER: RBRowak@mankitsmithgroup.com WORKSPACE: CHDOTCEW2 WORKSET: 119380 PRODUCT: OpenRoads Designer 10.12.02.4
F:\2023\22111 CUY-77-15.46\119380\400-Engineering\Roadway\Sheets\119380 GG003.dgn

SHEET NUMBER												PARTICIPATION		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
17-21	22-30	38	120	122	123	125	126-135	179	191	192	204	01/IMS							
	685											685		251	01010	685	CY	PAVEMENT	
100												100		253	02000	100	CY	PARTIAL DEPTH PAVEMENT REPAIR (441)	
	2327	1852										4179		254	01000	4179	SY	PAVEMENT REPAIR	
							14928					14928		254	01000	14928	SY	PAVEMENT PLANING, ASPHALT CONCRETE (THICKNESS = 1 1/2")	
	1232											1232		255	19001	1232	SY	PAVEMENT PLANING, ASPHALT CONCRETE (VARIABLE THICKNESS = 0" TO 3", 1 1/2" NORMAL)	P.27
																		FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, TYPE 1, CLASS QC RS, AS PER PLAN A	
	1232											1232		255	19001	1232	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, TYPE 1, CLASS QC RS, AS PER PLAN B	P.27
	8448											8448		255	20000	8448	FT	FULL DEPTH PAVEMENT SAWING	
							1957					1957		302	56000	1957	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
	247						1326					1573		304	20000	1573	CY	AGGREGATE BASE	
	210	167					3305					3682		407	20000	3682	GAL	NON-TRACKING TACK COAT	
			77									77		441	70801	77	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	P.19
							868					868		442	10001	868	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446),PG 76-22M, AS PER PLAN	P.19
							287					287		442	10080	287	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	
		78										78		442	22101	78	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN, PG 64-22, 1½"	P.26
			182									182		609	24510	182	FT	CURB, TYPE 4-C	
			50				1051					1101		609	26000	1101	FT	CURB, TYPE 6	
115												115		609	72001	115	SY	CONCRETE MEDIAN, AS PER PLAN	P.21
100							33					133		617	10101	133	CY	COMPACTED AGGREGATE, AS PER PLAN	P.19
		0.61					9					9		618	39000	9	EACH	RUMBLE STRIPS, TRANSVERSE (ASPHALT CONCRETE)	
							1.21					1.82		618	40600	1.82	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
																		LIGHTING	
											15	15		625	00480	15	EACH	CONNECTION, UNFUSED PERMANENT	
											1281	1281		625	23200	1281	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	
											362	362		625	25400	362	FT	CONDUIT, 2", 725.04	
											28	28		625	27503	28	EACH	LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN (12,000 - 15,000 LUMENS)	P.203
											20	20		625	29002	20	FT	TRENCH, 24" DEEP	
											7	7		625	29900	7	EACH	JUNCTION BOX	
											1	1		625	30706	1	EACH	PULL BOX, 725.08, 24"	
											3	3		625	31510	3	EACH	PULL BOX REMOVED	
											6	6		625	33000	6	EACH	STRUCTURE GROUNDING SYSTEM	
											3	3		625	34001	3	EACH	POWER SERVICE, AS PER PLAN	P.203
											3	3		625	37101	3	EACH	SERVICE TO UNDERPASS LIGHTING, AS PER PLAN	P.203
											3	3		SPECIAL	62540004	3	EACH	MAINTAIN EXISTING LIGHTING	P.203
											3	3		625	75511	3	EACH	POWER SERVICE REMOVED, AS PER PLAN	P.203
											3	3		625	75800	3	EACH	DISCONNECT CIRCUIT	
											3	3		625	76000	3	EACH	ARC FLASH CALCULATIONS AND LABEL (CC-1, CC-2 & CC-3)	
											1	1		625	98000	1	EACH	LIGHTING, MISC.: DISCONNECT SWITCH	P.203
											3	3		625	98000	3	EACH	LIGHTING, MISC.: HL-40.20 SOLAR RADIATION SHIELD	P.203
											3	3		625	98000	3	EACH	LIGHTING, MISC.: REMOVAL OF UNDERPASS LIGHTING INSTALLATION	P.203
											730	730		632	69910	730	FT	SERVICE CABLE, 3 CONDUCTOR, WITH GROUND, NO. 4 AWG	

GENERAL SUMMARY

DESIGN AGENCY



DESIGNER

ALP

REVIEWER

PRS 7-28-25

PROJECT ID

119380

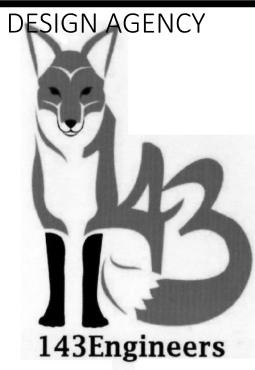
SHEET	TOTAL
-------	-------

3

GENERAL SUMMARY	
DESIGN AGENCY	
	
DESIGNER	ALP
REVIEWER	PRS 7-28-25
PROJECT ID	119380
SHEET	TOTAL
P.118	365

REF NO.	SHEET NO.	STATION TO STATION			NOTES (SEE SHEET)	625	632	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	SPECIAL	
						CONNECTION, UNFUSED PERMANENT	SERVICE CABLE, 3 CONDUCTOR, WITH GROUND, NO. 4 AWG	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	CONDUIT, 2", 725.04	TRENCH, 24" DEEP	LIGHTING, MISC.:DISCONNECT SWITCH	JUNCTION BOX	PULL BOX, 725.08, 24"	LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN (12,000-15,000 LUMENS)	LIGHTING, MISC.:HL-40.20 SOLAR RADIATION SHIELD	SERVICE TO UNDERPASS LIGHTING, AS PER PLAN		DISCONNECT CIRCUIT	POWER SERVICE, AS PER PLAN	ARC FLASH CALCULATIONS AND LABEL (CC-1, CC-2, & CC-3)	STRUCTURE GROUNDING SYSTEM	PULL BOX REMOVED	POWER SERVICE REMOVED, AS PER PLAN	LIGHTING, MISC.: REMOVAL OF UNDERPASS LIGHTING INSTALLATION	MAINTAIN EXISTING LIGHTING
						EACH	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	EACH		EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
			TO																						
CC-1	206	STA.4+13, 11' RT., @ CONST. US 422 WB			203	3		600	180	5		2		1		1	1	1	4	2	1	1	1	1	
SERVICE	207	(WOODLAND AVE.)												1	1										
UD & UN	208				203						1		10												
CC-2	209	STA. 1+13, 45.5' LT., @ CONST. E. 22ND ST.			203	3		90	20	5				1		1	1	1		2	1	1	1	1	
SERVICE	210														1										
UD & UN	211				203						1		10												
CC-3	212	STA. 6+57.5, 41.5' LT., @ CONST. E. 14TH ST.			203	3		90	20	5				1		1	1	1		2	1	1	1	1	
SERVICE	214														1										
UD & UN	215				203						1		8												
CR-1	205				203	3		135	30	5	1	1	1												
CR-2	205							366	112																
CR-3	205					3	730					1													
TOTALS CARRIED TO GENERAL SUMMARY						15	730	1281	362	20	1	7	1	28	3	3		3	3	3	6	3	3	3	3

4	12/12/25	REVISE STRUCTURE GROUNDING QUANTITIES



DESIGNER	MLF
REVIEWER	CFD 07/29/25
PROJECT ID	119380
SHEET	P.204
TOTAL	365

LIGHTING SUB-SUMMARY

4	12/10/25	REVISE QUANTITY
		REMOVE ITEM 625 - STRUCTURE GROUNDING SYSTEM



○ - LOCATION OF BOLTED COVER RETROFIT. SEE NOTE 1 FOR MORE INFORMATION

1. FOR BOLTED COVER PLATE RETROFITS, SEE MOMENT PLATE RETROFIT DETAILS SHEET.

2. FOR STEEL DETAILS NOT SHOWN, SEE ODOT STD. DWG. GSD-1-96 DATED 07-19-02.

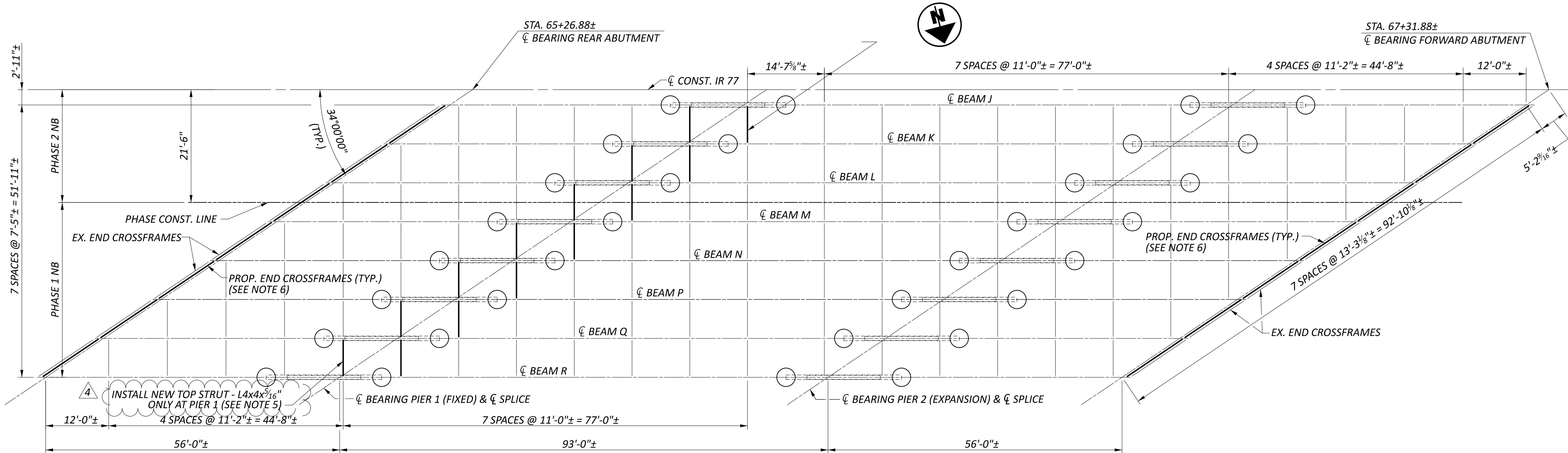
3. NOT USED

4. WELD ATTACHMENT OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE TO AREAS OF THE FASCIA STRINGER FLANGES DESIGNATED "COMPRESSION". DO NOT WELD ATTACHMENTS TO AREAS DESIGNATED "TENSION". FILLET WELDS TO COMPRESSION FLANGES ARE AT LEAST 1" FROM EDGE OF FLANGE, BE NO MORE THAN 2" LONG, AND BE AT LEAST $\frac{1}{4}$ " FOR THICKNESS UP TO $\frac{3}{4}$ " OR $\frac{5}{16}$ " FOR GREATER THAN $\frac{3}{4}$ " THICK.

5. FOR PROPOSED MODIFIED CROSS FRAME DETAILS, SEE TRANSVERSE SECTION. THIS ITEM SHALL BE PAID PER STRUCTURAL STEEL MISC. CROSS FRAMES (SEISMIC RETROFIT). THIS WORK CONSISTS OF ADDING TOP HORIZONTAL CROSSFRAME ANGLES AT PIER 1, DIRECTLY ABOVE AND AT THE SAME ORIENTATION AS THE EXISTING LOWER HORIZONTAL CROSSFRAME ANGLES AT PIER 1. THE PROPOSED ANGLES BE PLACED TO MAINTAIN A MINIMUM OF 2" CLEAR FROM THE TOP FLANGE AND THE ANGLES SHALL BE 4"x4"x $\frac{5}{16}$ " AND FIELD WELDED AT EACH OF THE ENDS TO THE WEB USING $\frac{3}{4}$ " FILLET WELD ALL THE WAY AROUND. THERE ARE 14 LOCATIONS TOTAL. THE NEW STEEL SHALL MEET THE REQUIREMENTS OF ASTM A709 GRADE 36 OR 50. THE LEVEL OF THE FABRICATOR QUALIFICATIONS SHALL BE 1 OR HIGHER. THIS ITEM INCLUDES ALL MATERIAL, EQUIPMENT, LABOR, FIELD MEASUREMENTS, SHOP DRAWING, SURFACE PREPARATION, AND INCIDENTALS NECESSARY TO INSTALL THE NEW SEISMIC RETROFIT UPPER CROSSFRAME ANGLES AT THE LOCATIONS SHOWN IN THE PLANS.

6. SEE ODOT STD. DWG. GSD-1-19 FOR MORE INFORMATION REGARDING PROPOSED END CROSS FRAMES. THIS ITEM SHALL BE PAID PER REPLACEMENT OF DETERIORATED END CROSS FRAMES

	12/10/25	REMOVE NOTE, REVISE NOTE



FRAMING PLAN
(NORTHBOUND BRIDGE)

LEGEND

- - LOCATION OF BOLTED COVER RETROFIT. SEE NOTE 1 FOR MORE INFORMATION

NOTES:

- FOR BOLTED COVER PLATE RETROFITS, SEE MOMENT PLATE RETROFIT DETAILS SHEET.
- FOR STEEL DETAILS NOT SHOWN, SEE ODOT STD. DWG. GSD-1-96 DATED 07-19-02.

4

3. NOT USED

4

4. WELD ATTACHMENT OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE TO AREAS OF THE FASCIA STRINGER FLANGES DESIGNATED "COMPRESSION". DO NOT WELD ATTACHMENTS TO AREAS DEIGNATED "TENSION". FILLET WELDS TO COMPRESSION FLANGES ARE AT LEAST 1" FROM EDGE OF FLANGE, BE NO MORE THAN 2" LONG, AND BE AT LEAST 1/4" FOR THICKNESSS UP TO 3/4" OR 5/16" FOR GREATER THAN 3/4" THICK.

4

5. FOR PROPOSED MODIFIED CROSS FRAME DETAILS, SEE TRANSVERSE SECTION. THIS ITEM SHALL BE PAID PER STRUCTURAL STEEL MISC. CROSS FRAMES (SEISMIC RETROFIT). THIS WORK CONSISTS OF ADDING TOP HORIZONTAL CROSSFRAME ANGLES AT PIER 1, DIRECTLY ABOVE AND AT THE SAME ORIENTATION AS THE EXISTING LOWER HORIZONTAL CROSSFRAME ANGLES AT PIER 1. THE PROPOSED ANGLES BE PLACED TO MAINTAIN A MINIMUM OF 2" CLEAR FROM THE TOP FLANGE AND THE ANGLES SHALL BE 4"x4"x 5/16" AND FIELD WELDED AT EACH OF THE ENDS TO THE WEB USING 3/4" FILLET WELD ALL THE WAY AROUND. THERE ARE 14 LOCATIONS TOTAL. THE NEW STEEL SHALL MEET THE REQUIREMENTS OF ASTM A709 GRADE 36 OR 50. THE LEVEL OF THE FABRICATOR QUALIFICATIONS SHALL BE 1 OR HIGHER. THIS ITEM INCLUDES ALL MATERIAL, EQUIPMENT, LABOR, FIELD MEASUREMENTS, SHOP DRAWING, SURFACE PREPARATION, AND INCIDENTALS NECESSARY TO INSTALL THE NEW SEISMIC RETROFIT UPPER CROSSFRAME ANGLES AT THE LOCATIONS SHOWN IN THE PLANS.

6. SEE ODOT STD. DWG. GSD-1-19 FOR MORE INFORMATION REGARDING PROPOSED END CROSS FRAMES. THIS ITEM SHALL BE PAID PER REPLACEMENT OF DETERIORATED END CROSS FRAMES

4	12/10/25	REMOVE NOTE, REVISE NOTE, ADD CALL OUT

FUNDING PARTICIPATION	MADE BY: MJM CHECKED BY: MMD		DATE: 7/25/2025 DATE: 7/25/2025		ESTIMATED QUANTITIES					STRUCTURAL FILE NUMBER: 1806874				
01/IMS	ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIER	SUPER.	GEN.	REFERENCE SHEET NO.				
LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					SHEET 3 OF 40				
400	202	22900	400	SY	APPROACH SLAB REMOVED				400					
400	202	23500	400	SY	WEARING COURSE REMOVED				400					
LS	503	11101	LS		COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN					SHEET 3 OF 40				
139	503	21100	139	CY	UNCLASSIFIED EXCAVATION	139								
223,658	509	10000	223,658	LB	EPOXY COATED STEEL REINFORCEMENT	16,499		207,159						
165	509	20001	165	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN	165				SHEET 3 OF 40				
13,261	509	30020	13,261	FT	NO. 4 DEFORMED GFRP REINFORCEMENT			13,261						
700	510	10001	700	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	700				SHEET 3 OF 40				
699	511	34446	699	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK			699						
197	511	34450	197	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)			197						
97	511	45712	97	CY	CLASS QC1 CONCRETE WITH QC/QA, ABUTMENT	97								
1,108	512	10100	1,108	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	249		859						
3,071	512	10400	3,071	SY	TREATING OF CONCRETE BRIDGE DECK WITH SRS			2,470	601					
4	512	10600	4	FT	CONCRETE REPAIR BY EPOXY INJECTION		4							
97	512	33000	97	SY	TYPE 2 WATERPROOFING	97								
3,071	512	73500	3,071	SY	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN			2,470	601					
14,111	513	10221	14,111	LB	STRUCTURAL STEEL MEMBERS, LEVEL 1, AS PER PLAN (BOLTED COVER PLATE RETROFITS)			14,111		SHEETS 4 OF 40				
15,776	513	20000	15,776	EACH	WELDED STUD SHEAR CONNECTORS			15,776						
4,230	513	21500	4,230	LB	REPLACEMENT OF DETERIORATED END CROSSFRAMES			4,230						
845	513	90000	845	LB	STRUCTURAL STEEL, MISC.: SEISMIC RETROFIT			845		SHEET 4 OF 40				
28	513	95030	28	EACH	STRUCTURAL STEEL, MISC.: REPLACEMENT OF CROSS FRAMES			28		SHEET 4 OF 40				
3,782	514	00051	3,782	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL, AS PER PLAN			3,782		SHEET 4 OF 40				
3,782	514	00057	3,782	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT, AS PER PLAN			3,782		SHEET 4 OF 40				
4,824	514	00061	4,824	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT, AS PER PLAN			4,824		SHEET 4 OF 40				
4,824	514	00067	4,824	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT, AS PER PLAN			4,824		SHEET 4 OF 40				
229	516	11210	229	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL	229								
135	516	13600	135	SF	1" PREFORMED EXPANSION JOINT FILLER	44		91						
13	516	13900	13	SF	2" PREFORMED EXPANSION JOINT FILLER			13						
16	516	44001	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (1.8754"x8 1/2"x11" PAD, 1/2"x9 1/2"x13" LOAD PLATE)	16				SHEET 20 OF 40				
16	516	44101	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (2.9334"x13"x13" PAD, 1"x14"x14" LOAD PLATE, AND 1 1/2"x18"x32" MASONRY PLATE WITH SEISMIC RETAINERS)	16				SHEET 4 & 20 OF 40				
LS	516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN					SHEET 4 OF 40				
5	518	12200	5	EACH	SCUPPERS, INCLUDING SUPPORTS			5						
139	518	21200	139	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	139								
285	518	40000	285	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	285								
100	518	40010	100	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	100								
17	518	51100	17	FT	8" PIPE DOWNSPOUT, INCLUDING SPECIALS		17							
971	SPECIAL	51900100	971	SF	COMPOSITE FIBER WRAP SYSTEM		971			SHEET 19 OF 40				
11	519	11101	11	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN		11			SHEET 4 OF 40				
4														
640	526	25011	640	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN				640	SHEET 4 OF 40				
224	526	90010	224	FT	TYPE A INSTALLATION				224					

	12/10/25	REMOVE ITEM 625 - STRUCTURE GROUNDING SYSTEM
		REVISE QUANTITY FOR COMPOSITE FIBER WRAP SYSTEM

ESTIMATED QUANTITIES
BRIDGE NO. CUY-77-15.62
IR 77 OVER E. 22ND ST.

SFN
1806874

DESIGN AGENCY

E.L. ROBINSON
ENGINEERING
1468 West 9th St. Suite 800
Cleveland, Ohio 44115
950 Goodale Blvd. Suite 180
Grandview Heights, Ohio 44131

DESIGNER
MJM

CHECKER
JOL

REVIEWER
RER

07/25/25

PROJECT ID
119380

SUBSET
5

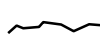
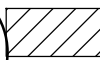
TOTAL
40

SHEET
P.278

TOTAL
365



	12/15/25	REMOVED FIBER WRAP FROM PIER 2

- LEGEND:**
- A - FIBER WRAP SHALL BE INSTALLED AS ONE CONTINUOUS WRAP, EXTENDING AROUND THE COLUMN TWICE WITH A MINIMUM 1'-0" LAP.
 - B - 2'-0" TYPICAL FABRIC WIDTH.
 -  - ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN
 -  - ITEM 512 - CONCRETE REPAIR BY EPOXY INJECTION
 -  - INDICATES CONCRETE PIER COLUMN REPAIR PER ITEM SPECIAL - STRUCTURES, COMPOSITE FIBER WRAP SYSTEM
 -  - INDICATES DOWNSPOUT TO BE REMOVED, INCLUDED WITH ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN
- NOTES:**
1. PATCHING AND EPOXY INJECTION QUANTITIES CARRIED TO THE ESTIMATED QUANTITIES INCREASED BY 25% TO ACCOUNT FOR CHANGES SINCE FIELD EVALUATION.
 2. EXPOSED AREA OF CONCRETE TO HAVE EXISTING SEALER REMOVED. THESE AREAS ALONG WITH AREAS TO BE REPAIRED VIA PATCHING ARE TO BE SEALED WITH EPOXY-URETHANE SEALER TO THE LIMITS SHOWN IN THIS SHEET.
 3. FIBER WRAP SYSTEM SHALL HAVE A MINIMUM CONFINING STRESS DUE TO THE FRP JACKET OF 0.150 KSI.
 4. DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS AND FIELD OBSERVATIONS. THESE DETAILS SHOULD BE USED FOR INFORMATIONAL PURPOSES ONLY.

4	12/10/25	REMOVE ITEM 625 - STRUCTURE GROUNDING SYSTEM