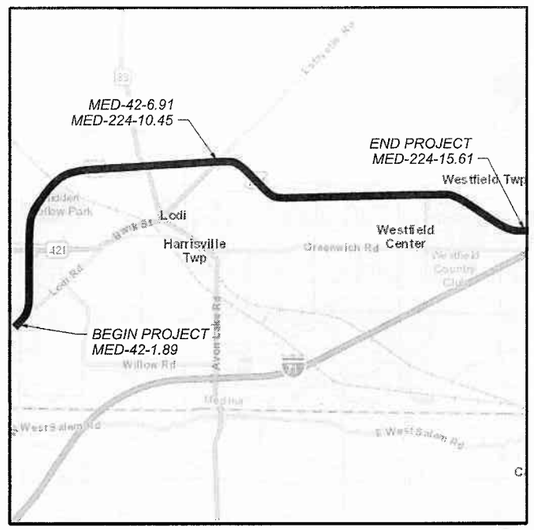
MED - US-US 42-01.89
210531 PID - 79761
Dist 3 11/18/2021



LOCATION MAP

LATITUDE: 41°2'48" LONGITUDE: 81°59'38"

PORTION TO BE IMPROVED ----------

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

MED-42-1.89
MED-224-(6.25)(10.45)

VILLAGE OF WESTFIELD CENTER

HARRISVILLE TOWNSHIP
WESTFIELD TOWNSHIP

MEDINA COUNTY

DESIGN DESIGNATIONS: SEE SHEET 2

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

INDEX OF SHEETS:

FEDERAL PROJECT NUMBER

E170083

RAILROAD INVOLVEMENT

CSX, WHEELING & LAKE ERIE

PROJECT DESCRIPTION

THIS PROJECT INCLUDES PAVEMENT REPAIRS, PLANING AND PAVING WITH ASPHALT CONCRETE, BRIDGE MAINTENANCE, GUARDRAIL REPAIR, AND REPLACING PAVEMENT MARKINGS.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	*N/A ACRES**
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	*N/A ACRES**
NOTICE OF INTENT EARTH DISTURBED AREA:	*N/A ACRES**

** = 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.

2019 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.

PLANS PREPARED BY:

OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT THREE ENGINEERING

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEETS 17-22.

APPROVED _____ *DISTRICT DEPUTY DIRECTOR*
DATE 6/25/21

APPROVED Jack Hanrahan/DES *DIRECTOR, DEPARTMENT OF TRANSPORTATION*
DATE 8/17/2021

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:

STATE OF OHIO
KARLA R. BOHMER
E-76834
REGISTERED PROFESSIONAL ENGINEER

SIGNED: Karla R. Bohmer
DATE: 6/30/21

STANDARD CONSTRUCTION DRAWINGS

AS-1-15	7/17/15	MGS-1.1	1/19/18	MT-95.30	7/19/19	MT-101.60	1/17/20	TC-41.20	10/18/13	800	7/16/21
DBR-2-73	7/19/02	MGS-2.1	1/19/18	MT-95.40	1/17/20	MT-101.70	1/17/20	TC-42.20	10/18/13	807	7/17/20
DBR-3-11	7/15/11	MGS-3.1	1/19/18	MT-95.45	1/17/20	MT-101.75	1/17/20	TC-52.10	10/18/13	808	1/18/19
EXJ-4-87	1/19/18	MGS-3.2	1/18/13	MT-95.50	7/21/17	MT-101.90	7/17/20	TC-52.20	1/15/21	821	4/20/12
		MGS-4.2	7/19/13	MT-96.11	4/16/21	MT-102.20	4/19/19	TC-61.30	7/19/19	830	7/19/19
BP-2.1	7/17/15	MGS-4.3	1/18/13	MT-96.20	7/15/16	MT-104.10	10/16/15	TC-64.10	1/17/20	832	10/19/18
BP-2.2	1/15/21	MGS-6.1	1/19/18	MT-96.26	1/18/19	MT-105.10	1/17/20	TC-65.10	1/17/14	848	1/15/21
BP-2.5	7/19/13	MGS-6.2	7/19/19	MT-97.12	1/20/17			TC-65.11	7/21/17	850	4/16/21
BP-3.1	1/17/20			MT-98.10	1/17/20			TC-71.10	1/19/18	872	4/17/20
BP-3.2	1/18/19	RM-4.6	7/19/13	MT-98.11	1/17/20			TC-72.20	7/20/18	873	4/16/21
BP-6.1	7/19/13			MT-98.20	4/19/19			TC-73.20	1/17/20	874	4/17/20
BP-9.1	1/18/19			MT-98.22	1/17/20					875	1/18/19
				MT-98.28	1/17/20					861	1/15/21
DM-4.1	7/17/20			MT-98.29	1/17/20					**SPECIAL PROVISIONS**	
DM-4.3	1/15/16			MT-99.20	4/19/19						
DM-4.4	1/15/16			MT-99.50	1/17/20						

SUPPLEMENTAL SPECIFICATIONS

TITLE SHEET

DESIGN AGENCY	DISTRICT 3 ENGINEERING TEAM TWO
DESIGNER	ACM
REVIEWER	KRB 6-30-21
PROJECT ID	79761
SHEET	1
TOTAL	79

MED-42-1.89/MED-224-(6.25)(10.45)

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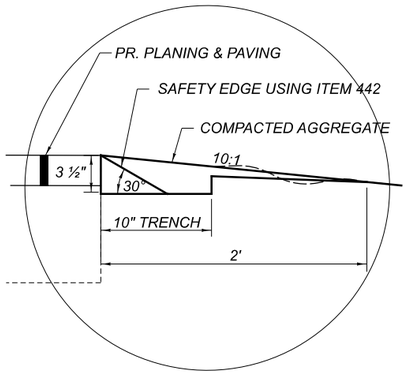
EXISTING LEGEND

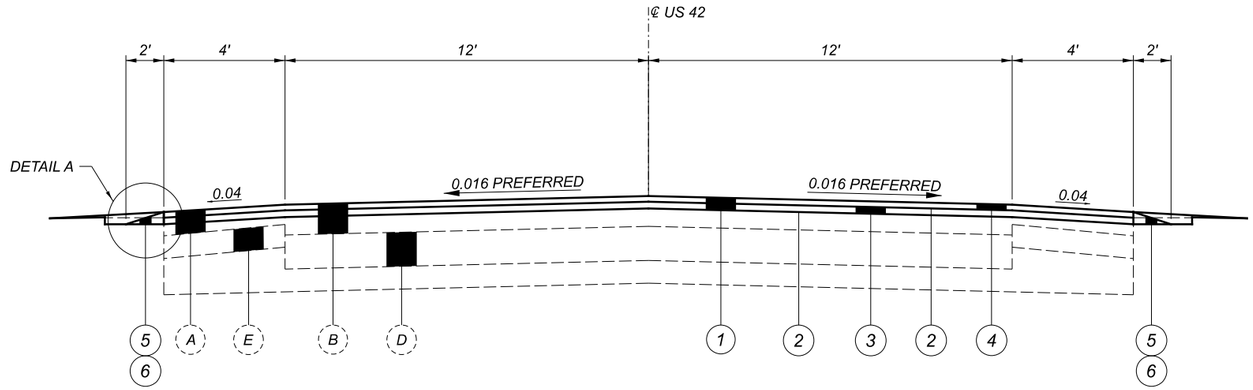
- (A) 5"± ASPHALT CONCRETE
- (B) 7"± ASPHALT CONCRETE
- (C) 9"± ASPHALT CONCRETE
- (D) 9"± REINFORCED CONCRETE PAVEMENT
- (E) AGGREGATE BASE

PROPOSED LEGEND

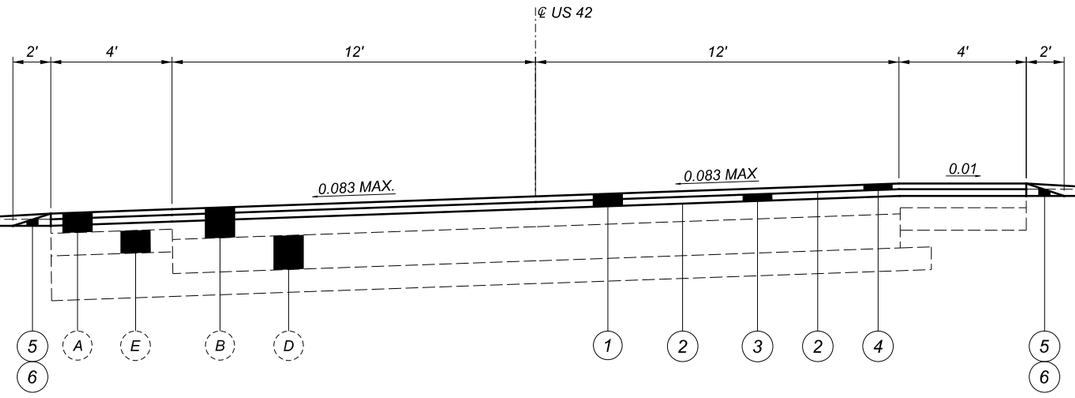
1. ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (3.25")
2. ITEM 407 - TACK COAT (0.08 GAL/SY 1ST LIFT, 0.05 GAL/SY 2ND LIFT)
3. ITEM 861 - ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446) (1.75")
4. ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447) (1.50")
5. ITEM 408 - PRIME COAT, AS PER PLAN (0.40 GAL/SY)
6. ITEM 617 - COMPACTED AGGREGATE (2.0")



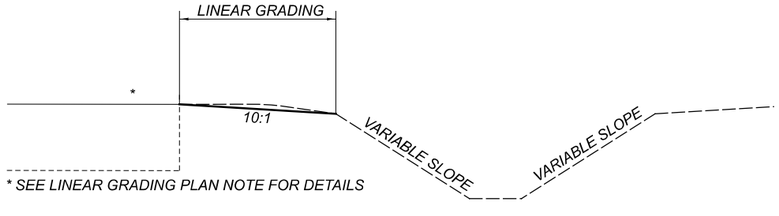
DETAIL A
SAFETY EDGE



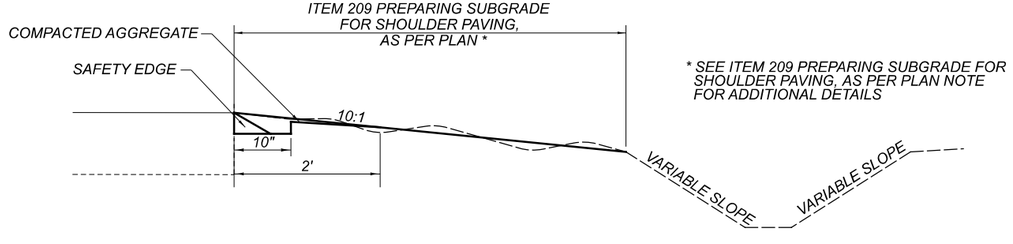
NORMAL SECTION - TWO-LANE
MED-42-1.89 TO 2.78



SUPERELEVATED SECTION - TWO-LANE
MED-42-1.89 TO 2.78



LINEAR GRADING DETAIL



ITEM 209 PREPARING SUBGRADE
FOR SHOULDER PAVING, AS PER PLAN

NOTE: ALL CROSS SLOPES
SHALL MATCH THE EXISTING CROSS SLOPES.

TYPICAL SECTIONS

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
ACM 6-29-21

PROJECT ID
79761

SHEET 7 TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

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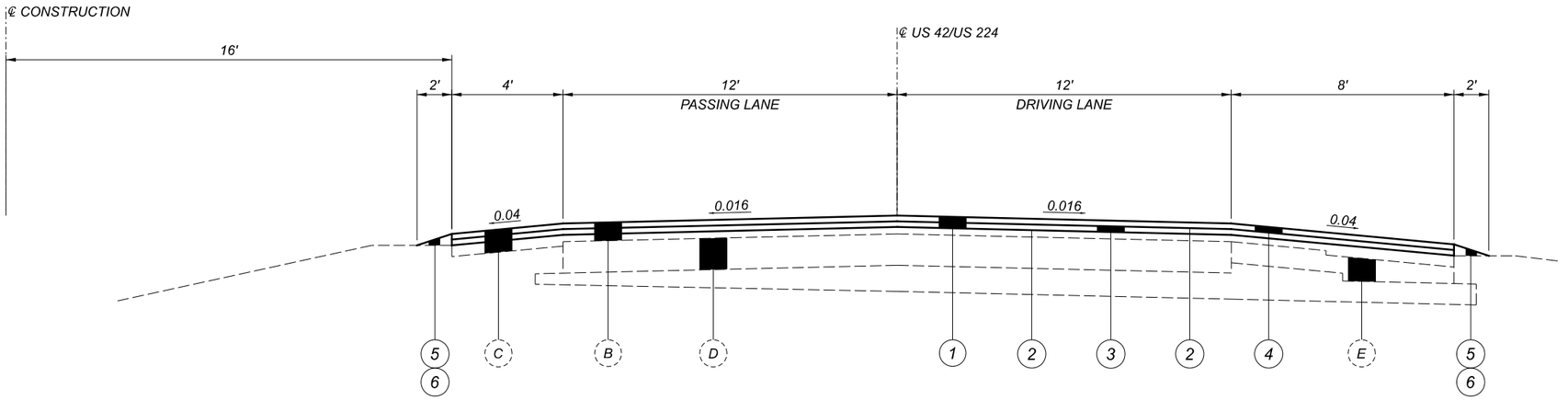
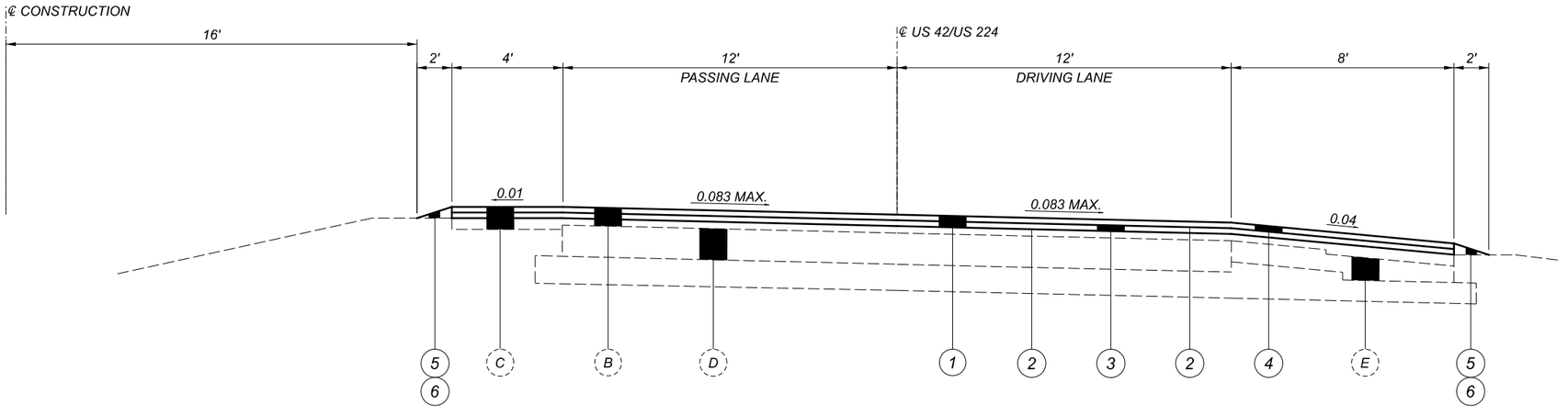


NORMAL SECTION - FOUR-LANE

IN DIRECTION OF TRAVEL
MED-42-2.78 TO 6.91
MED-224-10.45 TO 15.30 (EASTBOUND)
10.45 TO 15.40 (WESTBOUND)



SUPERELEVATED SECTION - FOUR-LANE

IN DIRECTION OF TRAVEL
MED-42-2.78 TO 6.91
MED-224-10.45 TO 15.30 (EASTBOUND)
10.45 TO 15.40 (WESTBOUND)

EXISTING LEGEND

- (A) 5"± ASPHALT CONCRETE
- (B) 7"± ASPHALT CONCRETE
- (C) 9"± ASPHALT CONCRETE
- (D) 9"± REINFORCED CONCRETE PAVEMENT
- (E) AGGREGATE BASE

PROPOSED LEGEND

- (1) ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (3.25")
- (2) ITEM 407 - TACK COAT (0.08 GAL/SY 1ST LIFT, 0.05 GAL/SY 2ND LIFT)
- (3) ITEM 861 - ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446) (1.75")
- (4) ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447) (1.50")
- (5) ITEM 408 - PRIME COAT, AS PER PLAN (0.40 GAL/SY)
- (6) ITEM 617 - COMPACTED AGGREGATE (2.0")

NOTE: ALL CROSS SLOPES SHALL MATCH THE EXISTING CROSS SLOPES.

TYPICAL SECTIONS

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
ACM 6-29-21

PROJECT ID
79761

SHEET 8 TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

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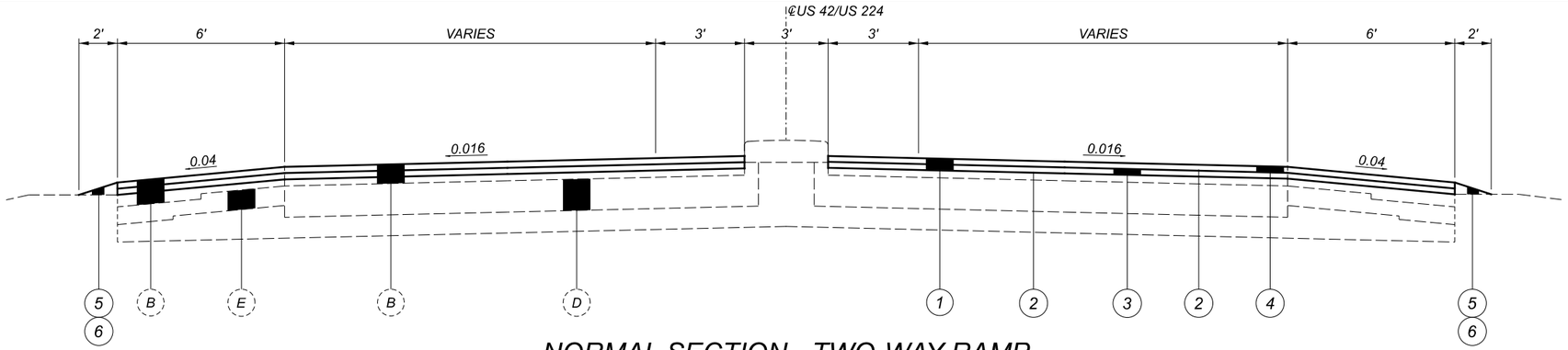
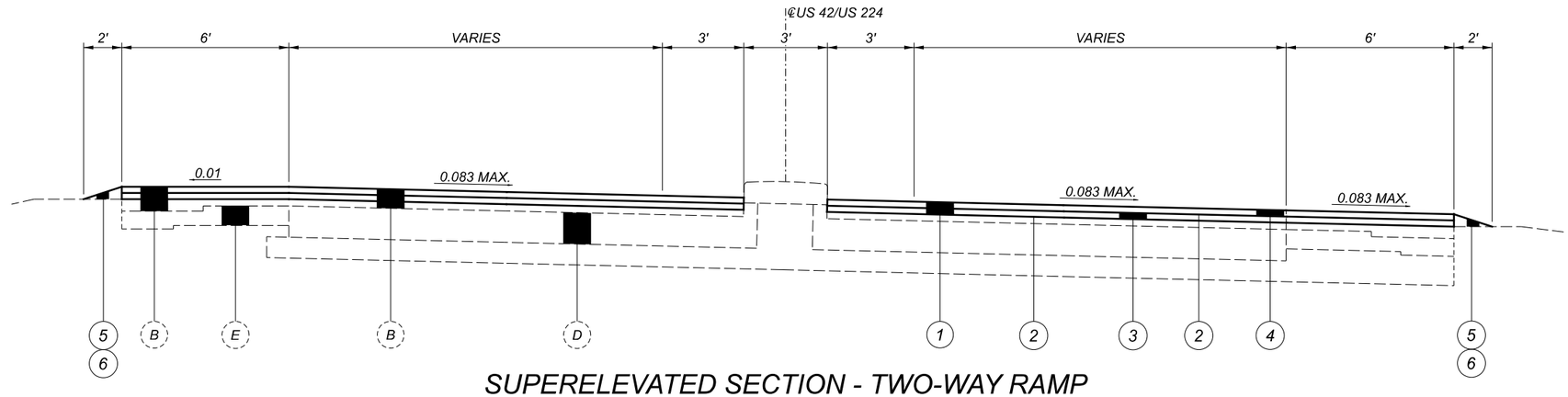


NORMAL SECTION - TWO-WAY RAMP

MED-42/224

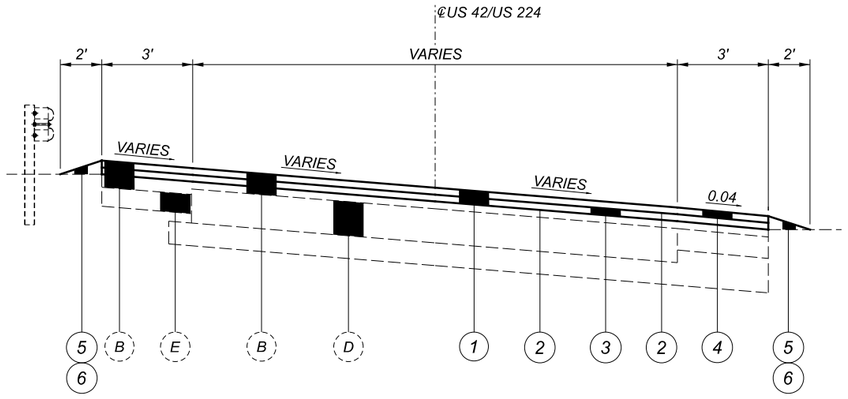
RAMP D1 RAMP B1
RAMP C2 RAMP B2



SUPERELEVATED SECTION - TWO-WAY RAMP

MED-42/224

RAMP D1 RAMP B1
RAMP C2 RAMP B2



SUPERELEVATED SECTION - ONE-WAY RAMP

MED-42/224

RAMP D1 RAMP D2
RAMP B1 RAMP B2
RAMP C1 RAMP C2
RAMP A1 RAMP A2
RAMP E2

EXISTING LEGEND

(A) 5"± ASPHALT CONCRETE

(B) 7"± ASPHALT CONCRETE

(C) 9"± ASPHALT CONCRETE

(D) 9"± REINFORCED CONCRETE PAVEMENT

(E) AGGREGATE BASE

PROPOSED LEGEND

(1) ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE (3.25")

(2) ITEM 407 - TACK COAT (0.08 GAL/SY 1ST LIFT, 0.05 GAL/SY 2ND LIFT)

(3) ITEM 861 - ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446) (1.75")

(4) ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447) (1.50")

(5) ITEM 408 - PRIME COAT, AS PER PLAN (0.40 GAL/SY)

(6) ITEM 617 - COMPACTED AGGREGATE (2.0")

NOTE: ALL CROSS SLOPES
SHALL MATCH THE EXISTING CROSS SLOPES.

TYPICAL SECTIONS

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
ACM 6-29-21

PROJECT ID
79761

SHEET 9 TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

PAVEMENT CORING INFORMATION

COUNTY	ROUTE	SLM	ASPHALT	CONCRETE	BRICK	LOCATION	DIRECTION	YEAR CORED
MED	42	3.55	7.0	9.5	0.0	MWP	WB	2019
MED	42	3.56	7.0	8.5	0.0	RWP	WB	2019
MED	42	3.56	7.0	9.0	0.0	RWP	WB	2019
MED	42	3.95	6.0	9.0	0.0	MWP	WB	2019
MED	42	3.96	6.0	5.0	0.0	MWP	WB	2019
MED	42	3.96	6.0	9.0	0.0	MWP	WB	2019
MED	42	4.44	8.0	9.0	0.0	MWP	WB	2019
MED	42	4.67	8.5	9.0	0.0	RWP	WB	2019
MED	42	4.67	6.9	9.5	0.0	RWP	WB	2019
MED	42	5.46	7.5	6.5	0.0	MWP	WB	2019
MED	42	5.46	6.5	9.0	0.0	MWP	WB	2019
MED	42	6.57	5.0	9.0	0.0	RWP	WB	2019
MED	42	6.57	6.0	9.0	0.0	LWP	WB	2019

COUNTY	ROUTE	SLM	ASPHALT	CONCRETE	BRICK	LOCATION	DIRECTION	YEAR CORED
MED	224	11.21	12.0	8.5	0.0	RWP	WB	2019
MED	224	11.21	6.5	8.5	0.0	RWP	WB	2019
MED	224	11.94	5.0	3.5	0.0	MWP	WB	2019
MED	224	11.94	6.5	9.0	0.0	MWP	WB	2019
MED	224	13.21	6.0	3.0	0.0	MWP	WB	2019
MED	224	13.21	6.5	9.0	0.0	MWP	WB	2019
MED	224	14.13	7.5	8.5	0.0	MWP	WB	2019
MED	224	14.13	7.5	9.0	0.0	MWP	WB	2019
MED	224	14.13	7.0	9.0	0.0	MWP	WB	2019
MED	224	14.70	16.5	0.0	0.0	MWP	WB	2019
MED	224	14.70	4.5	9.0	0.0	MWP	WB	2019
MED	224	14.70	7.0	9.0	0.0	MWP	WB	2019
MED	224	15.30	4.0	8.5	0.0	LWP	WB	2019
MED	224	15.30	15.0	0.0	0.0	LWP	WB	2019
MED	224	15.30	6.0	9.0	0.0	LWP	WB	2019

ITEM 209 – PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN

PREPARE THE SHOULDER FOR PAVING A CONSISTENT SAFETY EDGE IN BOTH THICKNESS AND WIDTH.

PRIOR TO PAVING THE SAFETY EDGE, GRADE AN AREA 10 INCHES WIDE, BEGINNING AT THE EDGE OF THE PAVED ROADWAY, TO PROVIDE A LEVEL SURFACE FREE OF VEGETATION FOR CONSTRUCTION OF THE SAFETY EDGE. IF NECESSARY, EXCAVATE THE GRADED AREA TO THE DEPTH NECESSARY TO CONSTRUCT THE SAFETY EDGE. COMPACT THE GRADED SHOULDER ACCORDING TO 617.05 OR AS DIRECTED BY THE ENGINEER. THE GRADED SHOULDER BEYOND THE 10-INCH WIDE AREA FOR THE SAFETY EDGE SHALL BE GRADED AT A 10:1 SLOPE, OR AS DIRECTED BY THE ENGINEER. THE INTENT IS TO PROVIDE AN UNOBSTRUCTED AND POSITIVE FLOW OF STORM WATER FROM THE PAVEMENT TO THE DITCH.

ITEM 254 – PATCHING PLANED SURFACE

AN ESTIMATED QUANTITY OF ITEM 254 - PATCHING PLANED SURFACE HAS BEEN SET UP TO BE USED AS DIRECTED BY THE ENGINEER AS DESCRIBED IN CMS 254.04. THE LIMIT OF THE PATCHING DEPTH IS 0 TO 2 IN.

ITEM 209 – LINEAR GRADING

THE CONTRACTOR IS REQUIRED TO PERFORM LINEAR GRADING ON THE GRADED SHOULDER. IT IS ANTICIPATED THAT THERE ARE AREAS WHERE THE GRADED SHOULDER IS AT A HIGHER ELEVATION THAN THE ADJACENT PROPOSED PAVEMENT. A 10:1 SLOPE SHALL BE ESTABLISHED, OR AS DIRECTED BY THE ENGINEER, WHEN PERFORMING ITEM 209 LINEAR GRADING. THE INTENT IS TO PROVIDE AN UNOBSTRUCTED AND POSITIVE FLOW OF STORM WATER FROM THE PAVEMENT TO THE DITCH. THE LINEAR GRADING SHALL BE PERFORMED AFTER THE INTERMEDIATE COURSE HAS BEEN COMPLETED AND BEFORE THE SURFACE COURSE IS PLACED. ALL LABOR AND EQUIPMENT NECESSARY TO PERFORM THE ABOVE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID PER MILE FOR ITEM 209 - LINEAR GRADING.

ITEM 251 – PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE)

THESE ITEMS OF WORK SHALL CONSIST OF THE REMOVAL OF THE EXISTING PAVEMENT OR PAVED BERM WHICH MAY BE ASPHALT, BRICK, CONCRETE, OR A COMBINATION OF EACH, IN AREAS OF EXISTING PAVEMENT FAILURE. CORING HAS BEEN PERFORMED TO HELP DETERMINE THE COMPONENTS THAT MAY BE ENCOUNTERED DURING THIS ITEM OF WORK. THE PAVEMENT CORING INFORMATION IS SHOWN ON THIS SHEET.

THIS PAY ITEM SHALL NOT BE USED WHERE ITEM 255 REPAIRS ARE TO BE PERFORMED.

PAVEMENT REPAIR SHALL BE PERFORMED AFTER PAVEMENT PLANING AND BEFORE PLACEMENT OF THE INTERMEDIATE AND SURFACE COURSES. THE DEPTH OF REMOVAL SHALL BE SUFFICIENT TO REMOVE ALL DETERIORATED PAVEMENT WITH A MAXIMUM DEPTH OF 12", BASED ON THE PAVEMENT DESIGN AND AN AVERAGE DEPTH OF 4" AND AN AVERAGE WIDTH OF 4 FT FOR ESTIMATING PURPOSES.

THE CONTRACTOR SHALL BE CAPABLE OF PERFORMING PAVEMENT REPAIRS 2 FEET WIDE.

REPLACEMENT MATERIAL SHALL BE ITEM 301, OR ITEM 442 19MM MATERIAL AND SHALL BE PLACED AND COMPACTED TO FINISH FLUSH WITH THE ADJACENT PAVEMENT SURFACE. ITEM 301 ASPHALT CONCRETE CAN BE USED WHEN THE DEPTH OF THE REPAIR IS BETWEEN 3" AND 12" WITH A MAXIMUM PAVEMENT LIFT OF 6". ITEM 442 19MM CAN BE USED WHEN THE DEPTH OF THE REPAIR IS BETWEEN 1.5" AND 3".

FOR BID AND ESTIMATING PURPOSES, APPROXIMATELY 70% OF THE REPAIRS ARE TO BE CONSIDERED LONGITUDINAL REPAIRS AND 30% ARE TO BE CONSIDERED TRANSVERSE REPAIRS. THIS APPROXIMATION IS SHOWN IN THE QUANTITIES BELOW.

PAVEMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT REPAIR. FOR PAYMENT PURPOSES ITEM 251 – PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE) IS TO BE A MAXIMUM OF 12" DEEP. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER CUBIC YARD, (BY TICKET WEIGHT CONVERSION), OF ITEM 251 – PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE). THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

01/NHS/PV:

ITEM 251 – PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE) (LONGITUDINAL)	1,210 CY
ITEM 251 – PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE) (TRANSVERSE)	515 CY

02/STR/PV:

ITEM 251 – PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE) (LONGITUDINAL)	190 CY
ITEM 251 – PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE) (TRANSVERSE)	80 CY

ITEM 254 – PAVEMENT PLANING, ASPHALT CONCRETE

THE INTENT OF THE PLANING IS TO MILL 3.25 INCHES AT THE CENTER OF PAVEMENT AT NON-CURBED AREAS. THE PAVEMENT SLOPE SHALL BE 0.010 MINIMUM AND 0.016 PREFERRED, CONTINUOUS BETWEEN THE CROWN AND THE PROPOSED EDGELINE/SHOULDER. THE MILLING DEPTH SHALL BE CONTROLLED FROM THE CENTER OF PAVEMENT IN CONFORMANCE WITH THE ABOVE GUIDELINES.

SPECIAL ATTENTION SHALL BE GIVEN TO SUPERELEVATED CURVES. THE SUPERELEVATION SHALL BE MAINTAINED AND/OR RESTORED, IF NECESSARY, AS DIRECTED BY THE ENGINEER. IF THERE IS NO INFORMATION IN THE PLANS TO CHANGE THE SUPERELEVATION, THE INTENT IS TO MAINTAIN THE EXISTING SUPERELEVATION.

THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO ALL CATCH BASINS AND INLETS.

FOUR LANE SECTION:
THE PROGRESSION OF THE PLANING SHALL PROCEED IN SUCH A MANNER THAT NORMAL TRAFFIC SHALL NOT BE PERMITTED TO RUN OVER THE PLANED ROADWAY SURFACE. FOR EACH CALENDAR DAY THAT THE TRAFFIC IS EXPOSED TO THE PLANED SURFACE, THE CONTRACTOR WILL BE ASSESSED A DISINCENTIVE FEE OF $1,000 PER DAY.

TWO LANE SECTION, INTERSECTIONS, AND RAMPS:
THE PROGRESSION OF THE PLANING SHALL PROCEED IN SUCH A MANNER THAT NORMAL TRAFFIC WILL NOT BE REQUIRED TO RUN OVER THE PLANED ROADWAY SURFACE FOR MORE THAN FOURTEEN (14) CALENDAR DAYS. FOR EACH CALENDAR DAY BEYOND THE 14 DAYS THAT THE ROADWAY REMAINS EXPOSED TO THE PLANED SURFACE, THE CONTRACTOR WILL BE ASSESSED A DISINCENTIVE FEE OF $1,000 PER DAY.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT PLANING, ASPHALT CONCRETE. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER SQUARE YARD OF ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE.

ITEM 255 –FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, AS PER PLAN, (LONGITUDINAL CRACK)

THE LONGITUDINAL JOINT REPAIRS ARE TO BE COMPLETED AFTER THE TRANSVERSE JOINTS ARE REPLACED. CONCRETE WILL BE CLASS QC MS.

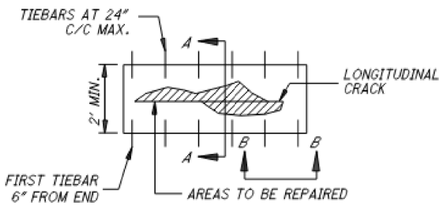
PERFORM 2' WIDE FULL DEPTH REPAIRS AT DETERIORATED LONGITUDINAL JOINTS AT THE MED-224/LAKE RD INTERSECTION. EXACT LOCATIONS WILL BE AS DETERMINED BY THE ENGINEER.

ACTUAL LENGTH AND ANY WIDTH OVER THE 2' MINIMUM, WILL BE DETERMINED BY THE ENGINEER DURING LAYOUT.

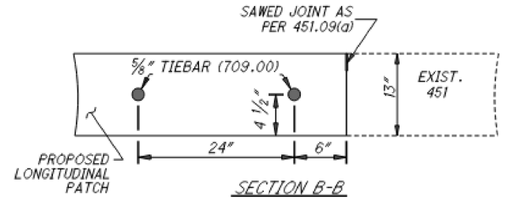
THE CONCRETE SHALL BE PLACED IN THE REPAIR AREA THE SAME DAY THAT THE EXISTING PAVEMENT IS REMOVED FROM THE REPAIR AREA.

IF THE LONGITUDINAL JOINT REPAIR IS WITHIN 5 FEET OF AN EXISTING TRANSVERSE JOINT THAT HAS BEEN REPAIRED THEN THE LONGITUDINAL JOINT SHALL BE EXTENDED TO BE NEAREST REPAIRED JOINT.

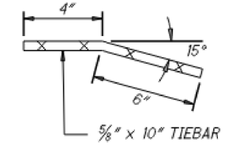
ALL REINFORCING STEEL SHALL BE EPOXY COATED AND CONFORMING TO C.M.S. 709.00.



SECTION A-A



SECTION B-B



TIEBAR

GENERAL NOTES

DESIGN AGENCY	DISTRICT 3
	ENGINEERING TEAM TWO
DESIGNER	JLL
REVIEWER	KRB 6-30-21
PROJECT ID	79761
SHEET	11
TOTAL	79

MED-42-1.89/MED-224-(6.25)(10.45)
MODEL: GEN NOTES 2 PAPERSIZE: 17x11 (in.) DATE: 11/4/2021 TIME: 12:46:41 PM USER: ksalay
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Roadway\Sheets\79761_GN001.dgn

SHEET NUM.						PART.						ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
11	12	29	30	31	32	01/NHS/PV	02/STR/PV	03/NHS/BR	04/STR/BR	05/SAF/OT	06/SAF/OT						
																ROADWAY	
					22,325.5	21,338	987.5					202	38000	22,325.5	FT	GUARDRAIL REMOVED	
					2,772.5	2,522.5	250					202	38300	2,772.5	FT	GUARDRAIL REMOVED, BARRIER DESIGN	
					3	3						202	42000	3	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A	
					45	40	5					202	42010	45	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E	
					50	47	3					202	42040	50	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T	
					58	54	4					202	47000	58	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED	
					20	18	2					202	47800	20	EACH	IMPACT ATTENUATOR REMOVED	
	50					40	10					203	10001	50	CY	EXCAVATION, AS PER PLAN	12
					310	295	15					203	20001	310	CY	EMBANKMENT, AS PER PLAN	13
					285.76	269.88	15.88					209	15000	285.76	STA	RESHAPING UNDER GUARDRAIL	
		8.37	8.62	20.7		35.87	1.82					209	60500	37.69	MILE	LINEAR GRADING	
		1.66					1.66					209	72051	1.66	MILE	PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN	11
					837.5	737.5	100					606	13000	837.5	FT	GUARDRAIL, TYPE 5	
					8,169.25	7,656.75	512.5					606	15050	8,169.25	FT	GUARDRAIL, TYPE MGS	
					12,781.3	12,406.3	375					606	15100	12,781.3	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS	
					500	500						606	15150	500	FT	GUARDRAIL, TYPE MGS HALF POST SPACING	
					2,745	2,495	250					606	15550	2,745	FT	GUARDRAIL, BARRIER DESIGN, TYPE MGS	
					46	41	5					606	26150	46	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016	
					51	48	3					606	26550	51	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
					20	20						606	35002	20	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	
					2	2						606	35102	2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
					36	32	4					606	35140	36	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4	
					20	18	2					606	60012	20	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)	
					8	8						622	25001	8	EACH	CONCRETE BARRIER END SECTION, TYPE D, AS PER PLAN	13
																EROSION CONTROL	
						1,535	130	205	55	70	5	832	30000	2,000	EACH	EROSION CONTROL	
																DRAINAGE	
	1,000					800	200					605	31101	1,000	FT	AGGREGATE DRAINS, AS PER PLAN	12
																PAVEMENT	
1,400						1,210	190					251	01042	1,400	CY	PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE) (LONGITUDINAL)	
595						515	80					251	01042	595	CY	PARTIAL DEPTH PAVEMENT REPAIR (ASPHALT CONCRETE BASE) (TRANSVERSE)	
		109,283	94,726	224,268		390,628	37,649					254	01000	428,277	SY	PAVEMENT PLANING, ASPHALT CONCRETE (3.25 INCH)	
		178					178					254	01000	178	SY	PAVEMENT PLANING, ASPHALT CONCRETE (TAPER 3.25" TO 2.0")	
		356					356					254	01000	356	SY	PAVEMENT PLANING, ASPHALT CONCRETE (TAPER 3.25" TO 1.5")	
		547	474	1,122		1,955	188					254	01600	2,143	SY	PATCHING PLANED SURFACE	
	15,700				700	14,700	1,700					255	10161	16,400	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, AS PER PLAN	12
					290	290						255	10161	290	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, AS PER PLAN (LONGITUDINAL CRACK)	11
	62,800				6,010	62,010	6,800					255	20000	68,810	FT	FULL DEPTH PAVEMENT SAWING	
					17,392	17,392						257	10000	17,392	SY	DIAMOND GRINDING PORTLAND CEMENT CONCRETE PAVEMENT	
	50					40	10					304	20001	50	CY	AGGREGATE BASE, AS PER PLAN	12
		14,233	12,315	29,154		50,778	4,924					407	10000	55,702	GAL	TACK COAT	
		4,709	4,043	9,715		16,834	1,633					408	10001	18,467	GAL	PRIME COAT, AS PER PLAN	12
		6,797	5,833	13,967		24,125	2,472					442	00100	26,597	CY	ANTI-SEGREGATION EQUIPMENT	
		4,566	3,946	9,343		16,273	1,582					442	10300	17,855	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), PG70-22	
		23					23					442	10300	23	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), PG70-22, (SAFETY EDGE)	
		5,313	4,607	10,902		18,990	1,832					861	11100	20,822	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	
		654	560	1,350		2,338	226					617	10100	2,564	CY	COMPACTED AGGREGATE	
		9,820	10,107	24,284		42,075	2,136					617	20000	44,211	SY	SHOULDER PREPARATION	
	3					3						618	39001	3	EACH	RUMBLE STRIPS, TRANSVERSE (ASPHALT CONCRETE), AS PER PLAN	12
		7.97	7.97	19.47		34.29	1.12					618	40600	35.41	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	
		1.66					1.66					618	41000	1.66	MILE	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)	
		0.89									0.89	618	43000	0.89	MILE	RUMBLE STRIPES, CENTER LINE (ASPHALT CONCRETE)	
		4,699									4,699	874	20000	4,699	FT	LONGITUDINAL JOINT PREPARATION	

GENERAL SUMMARY

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
KRB 7-7-21

PROJECT ID
79761

SHEET 23 TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: GENSUM1 PAPERSIZE: 17x11 (in.) DATE: 11/5/2021 TIME: 5:26:17 PM USER: ksalay
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400=Engineering\Roadway\Sheets\79761_GG001.dgn

SHEET NUM.					PART.						ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
32	51	52	53	56	01/NHS/PV	02/STR/PV	03/NHS/BR	04/STR/BR	05/SAF/OT	06/SAF/OT						
															TRAFFIC CONTROL	
			1,732		1,396	336					621	00100	1,732	EACH	RPM	
			1,755		1,414	341					621	54000	1,755	EACH	RAISED PAVEMENT MARKER REMOVED	
306					288	18					626	00110	306	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL	
	16.52	19.4			34.8	1.12					642	30030	35.92	MILE	REMOVAL OF PAVEMENT MARKING (EXISTING EDGE LINE)	
	250	358			172	436					644	00500	608	FT	STOP LINE	
	685	216			393	508					644	00700	901	FT	TRANSVERSE/DIAGONAL LINE	
	10	14			8	16					644	01300	24	EACH	LANE ARROW	
	6	2			6	2					644	01360	8	EACH	WRONG WAY ARROW	
	2				2						644	40000	2	EACH	SPEED MEASUREMENT MARKING	
		113				113					646	10400	113	FT	STOP LINE	
		24				24					646	10800	24	SF	ISLAND MARKING	
		25				25					646	20300	25	EACH	LANE ARROW	
	0.67	1.38							2.05		807	12010	2.05	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6"	
	0.33	0.66							0.99		807	12110	0.99	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"	
	0.04								0.04		807	12200	0.04	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, CENTER LINE	
		2,552							2,552		807	12300	2,552	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 8"	
	19.09	20.63							39.72		807	14010	39.72	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6"	
	8.11	9.8							17.91		807	14110	17.91	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"	
	0.85								0.85		807	14200	0.85	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CENTER LINE	
	1,918	3,448							5,366		807	14300	5,366	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 8"	
		1,455							1,455		807	14410	1,455	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6"	
	1.7								1.7		850	10000	1.7	MILE	GROOVING FOR 4" RECESSED PAVEMENT MARKING, (ASPHALT)	
	27.2	30.43							57.63		850	10010	57.63	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
		1,455							1,455		850	10110	1,455	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
	1,918	3,448							5,366		850	10120	5,366	FT	GROOVING FOR 8" RECESSED PAVEMENT MARKING, (ASPHALT)	
	0.08								0.08		850	20000	0.08	MILE	GROOVING FOR 4" RECESSED PAVEMENT MARKING, (CONCRETE)	
	1	2.04							3.04		850	20010	3.04	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)	
		2,552							2,552		850	20120	2,552	FT	GROOVING FOR 8" RECESSED PAVEMENT MARKING, (CONCRETE)	
															STRUCTURE REPAIR (MED-42-2.61)	
				32				32			512	10300	32	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
				5				5			516	45305	5	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	55
				LS				LS			516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	55
				300				300			517	75600	300	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
				300				300			517	76300	300	FT	RAILING, MISC.:DEEP BEAM RAILING PANELS	55
				709				709			848	10001	709	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (2.25 INCH THICK)	55
				709				709			848	20000	709	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
				22				22			848	30001	22	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	55
				40				40			848	50000	40	SY	HAND CHIPPING	
				LS				LS			848	50100	LS		TEST SLAB	
				709				709			848	50320	709	SY	EXISTING CONCRETE OVERLAY REMOVED (2 INCH NOMINAL THICKNESS)	
				398				398			848	50340	398	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	
															STRUCTURE REPAIR (MED-42-3.10 L)	
				52			52				202	32000	52	FT	CURB REMOVED	
				100			100				202	32600	100	FT	GUTTER REMOVED	
				256			256				202	98200	256	FT	REMOVAL MISC.: DECK OVERHANG	54
				66			66				202	98200	66	FT	REMOVAL MISC.:JOINT SEALER	54
				829			829				509	10001	829	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	55
				100			100				509	20001	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	54
				256			256				511	81100	256	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG	55
				138			138				512	10100	138	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
				28			28				512	10300	28	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
				66			66				516	31000	66	FT	JOINT SEALER	
				4			4				516	45305	4	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	55
				LS			LS				516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	55
				33			33				519	11100	33	SF	PATCHING CONCRETE STRUCTURE	
				12			12				SPECIAL	51912510	12	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B	55

GENERAL SUMMARY

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
KRB 7-7-21

PROJECT ID
79761

SHEET 24 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: GENSUM2 PAPERSIZE: 17x11 (in.) DATE: 11/8/2021 TIME: 12:16:41 PM USER: kslay
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Roadway\Sheets\79761_GG001.dgn

SHEET NUM.						PART.						ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
31	32	51	52	53	56	01/NHS/PV	02/STR/PV	03/NHS/BR	04/STR/BR	05/SAF/OT	06/SAF/OT						
					25			25				601	27000	25	CY	DUMPED ROCK FILL, TYPE C	
					474			474				848	10001	474	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75 INCH THICK)	55
					474			474				848	20000	474	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
					9			9				848	30001	9	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	55
					27			27				848	50000	27	SY	HAND CHIPPING	
					LS			LS				848	50100	LS		TEST SLAB	
					2			2				848	50200	2	CY	FULL-DEPTH REPAIR	
					474			474				848	50320	474	SY	EXISTING CONCRETE OVERLAY REMOVED (1.25 INCH NOMINAL THICKNESS)	
					266			266				848	50340	266	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	
					240			240				SPECIAL	51900100	240	SF	COMPOSITE FIBER WRAP SYSTEM	55
																STRUCTURE REPAIR (MED-42-3.10 R)	
					52			52				202	32000	52	FT	CURB REMOVED	
					100			100				202	32600	100	FT	GUTTER REMOVED	
					256			256				202	98200	256	FT	REMOVAL MISC.: DECK OVERHANG	54
					90			90				202	98200	90	FT	REMOVAL MISC.:JOINT SEALER	54
					829			829				509	10001	829	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	55
					100			100				509	20001	100	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	54
					256			256				511	81100	256	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG	55
					138			138				512	10100	138	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
					28			28				512	10300	28	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
					90			90				516	31000	90	FT	JOINT SEALER	
					3			3				516	45305	3	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	55
					LS			LS				516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	55
					38			38				519	11100	38	SF	PATCHING CONCRETE STRUCTURE	
					18			18				601	21060	18	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	
					25			25				601	27000	25	CY	DUMPED ROCK FILL, TYPE C	
					644			644				848	10001	644	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75 INCH THICK)	55
					644			644				848	20000	644	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
					13			13				848	30001	13	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	55
					36			36				848	50000	36	SY	HAND CHIPPING	
					LS			LS				848	50100	LS		TEST SLAB	
					4			4				848	50200	4	CY	FULL-DEPTH REPAIR	
					644			644				848	50320	644	SY	EXISTING CONCRETE OVERLAY REMOVED (1.25 INCH NOMINAL THICKNESS)	
					361			361				848	50340	361	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	
					240			240				SPECIAL	51900100	240	SF	COMPOSITE FIBER WRAP SYSTEM	55
																STRUCTURE REPAIR (MED-42-4.60 L)	
					1			1				202	11301	1	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	54
					94			94				202	98200	94	FT	REMOVAL MISC.:JOINT SEALER	54
					1			1				511	46010	1	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	
					26			26				512	10300	26	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
					94			94				516	31000	94	FT	JOINT SEALER	
					238			238				517	75600	238	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
					238			238				517	76300	238	FT	RAILING, MISC.:DEEP BEAM RAILING PANELS	55
					6			6				519	11100	6	SF	PATCHING CONCRETE STRUCTURE	
					2			2				SPECIAL	51912510	2	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B	55
					574			574				848	10001	574	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75 INCH THICK)	55
					574			574				848	20000	574	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
					11			11				848	30001	11	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	55
					32			32				848	50000	32	SY	HAND CHIPPING	
					LS			LS				848	50100	LS		TEST SLAB	
					12			12				848	50200	12	CY	FULL-DEPTH REPAIR	
					574			574				848	50320	574	SY	EXISTING CONCRETE OVERLAY REMOVED (1.25 INCH NOMINAL THICKNESS)	
					322			322				848	50340	322	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	

GENERAL SUMMARY

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
KRB 7-7-21

PROJECT ID
79761

SHEET 25 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: GENSUM3 PAPERSIZE: 17x11 (in.) DATE: 11/8/2021 TIME: 12:22:16 PM USER: kslay
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Roadway\Sheets\79761_GG001.dgn

SHEET NUM.						PART.						ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
31	32	51	52	53	56	01/NHS/PV	02/STR/PV	03/NHS/BR	04/STR/BR	05/SAF/OT	06/SAF/OT						
																STRUCTURE REPAIR (MED-42-4.60 R)	
					1			1				202	11301	1	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	54
					94			94				202	98200	94	FT	REMOVAL MISC.:JOINT SEALER	54
					1			1				511	46010	1	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	
					26			26				512	10300	26	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
					94			94				516	31000	94	FT	JOINT SEALER	
					238			238				517	75600	238	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
					238			238				517	76300	238	FT	RAILING, MISC.:DEEP BEAM RAILING PANELS	55
					24			24				519	11100	24	SF	PATCHING CONCRETE STRUCTURE	
					4			4				SPECIAL	51912510	4	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B	55
					574			574				848	10001	574	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75 INCH THICK)	55
					574			574				848	20000	574	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
					11			11				848	30001	11	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	55
					32			32				848	50000	32	SY	HAND CHIPPING	
					LS			LS				848	50100	LS		TEST SLAB	
					8			8				848	50200	8	CY	FULL-DEPTH REPAIR	
					574			574				848	50320	574	SY	EXISTING CONCRETE OVERLAY REMOVED (1.25 INCH NOMINAL THICKNESS)	
					322			322				848	50340	322	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	
																STRUCTURE REPAIR (MED-42-5.39 L)	
					80			80				202	98200	80	FT	REMOVAL MISC.:JOINT SEALER	54
					800			800				512	10300	800	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
					80			80				516	31000	80	FT	JOINT SEALER	
					425			425				517	75600	425	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
					425			425				517	76300	425	FT	RAILING, MISC.:DEEP BEAM RAILING PANELS	55
					28			28				519	11100	28	SF	PATCHING CONCRETE STRUCTURE	
					18			18				SPECIAL	51912510	18	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B	55
																STRUCTURE REPAIR (MED-42-5.39 R)	
					80			80				202	98200	80	FT	REMOVAL MISC.:JOINT SEALER	54
					800			800				512	10300	800	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
					80			80				516	31000	80	FT	JOINT SEALER	
					425			425				517	75600	425	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
					425			425				517	76300	425	FT	RAILING, MISC.:DEEP BEAM RAILING PANELS	55
					10			10				519	11100	10	SF	PATCHING CONCRETE STRUCTURE	
					9			9				SPECIAL	51912510	9	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B	55
																STRUCTURE REPAIR (MED-42-5.89 L)	
					94			94				202	98200	94	FT	REMOVAL MISC.:JOINT SEALER	54
					605			605				512	10300	605	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
					94			94				516	31000	94	FT	JOINT SEALER	
					2			2				516	45305	2	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	55
					LS			LS				516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	55
					250			250				517	75600	250	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
					250			250				517	76300	250	FT	RAILING, MISC.:DEEP BEAM RAILING PANELS	55
																STRUCTURE REPAIR (MED-42-5.89 R)	
					141			141				202	98200	141	FT	REMOVAL MISC.:JOINT SEALER	54
					605			605				512	10300	605	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
					47			47				516	10000	47	FT	PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL	
					94			94				516	31000	94	FT	JOINT SEALER	
					2			2				516	45305	2	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	55
					LS			LS				516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	55
					250			250				517	75600	250	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
					250			250				517	76300	250	FT	RAILING, MISC.:DEEP BEAM RAILING PANELS	55
					3			3				519	11100	3	SF	PATCHING CONCRETE STRUCTURE	

GENERAL SUMMARY

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: GENSUM4 PAPERSIZE: 17x11 (in.) DATE: 11/5/2021 TIME: 5:44:59 PM USER: ksalay
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Roadway\Sheets\79761_GG001.dgn

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
KRB 7-7-21

PROJECT ID
79761

SHEET 26 | TOTAL 79

PAVEMENT & SHOULDER DATA
MED-42 NORTHBOUND

PLAN SPLIT	COUNTY	ROUTE	LOG POINT TO LOG POINT (STRAIGHT LINE MILEAGE)		DIRECTION	LENGTH MILE	LENGTH FEET	AVERAGE WIDTH	AVERAGE PAVED SHOULDER WIDTH SL	AVERAGE PAVED SHOULDER WIDTH SR	PAVEMENT AREA	254 PAVEMENT PLANING, ASPHALT CONCRETE (3.25")	254 PAVEMENT PLANING, ASPHALT CONCRETE (TAPER 3.25" TO 2.0")	254 PAVEMENT PLANING, ASPHALT CONCRETE (TAPER 3.25" TO 1.50")	254 PATCHING PLANED SURFACE	407 TACK COAT (@ 0.08 GAL/SY)	407 TACK COAT (@ 0.05 GAL/SY)	442 ANTI-SEGREGATION EQUIPMENT	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447) (1.50")	442 ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447) (SAFETY EDGE)	861 ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446) (1.75")	618 RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	618 RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)	618 RUMBLE STRIPES, CENTER LINE (ASPHALT CONCRETE)	874 LONGITUDINAL JOINT PREPARATION	AGGREGATE SHOULDER PROPOSED WIDTH SL	AGGREGATE SHOULDER PROPOSED WIDTH SR	AGGREGATE SHOULDER AREA	209 LINEAR GRADING	209 PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN	408 PRIME COAT, AS PER PLAN (@ 0.40 GAL/SY)	617 COMPACTED AGGREGATE 2 INCHES	617 SHOULDER PREPARATION
								FT	FT	FT	SY	SY	SY	SY	SY	GAL	GAL	CY	CY	CY	CY	MILE	MILE	MILE	FT	FT	FT	SY	MILE	MILE	GAL	CY	SY
02/STR/PV	MED	42	1.89	2.15	NB/SB	0.26	1,373	24.0	4.0	4.0	4,882	4,882	178		24	391	244	331	203	7	237		0.52			2.0	2.0	610		0.52	244	34	
02/STR/PV	MED	42	2.15	2.28	NB/SB	0.13	686	31.0	4.0	4.0	2,973	2,973			15	238	149	213	124	4	145		0.26			2.0	2.0	305		0.26	122	17	
02/STR/PV	MED	42	2.28	2.47	NB/SB	0.19	1,003	24.0	4.0	4.0	3,566	3,566			18	285	178	241	149	5	173		0.38			2.0	2.0	446		0.38	178	25	
	CONCRETE STRUCTURE MED-42-2.47					0.021	113																										
02/STR/PV	MED	42	2.49	2.61	NB/SB	0.12	626	24.0	4.0	4.0	2,226	2,226			11	178	111	151	93	3	108		0.24			2.0	2.0	278		0.24	111	15	
02/STR/PV	APPROACH SLAB PAVING					0.005	25	24.0	4.0	4.0	89			178		14		3	7														
	CONCRETE STRUCTURE MED-42-2.61					0.028	146																										
02/STR/PV	APPROACH SLAB PAVING					0.005	25	24.0	4.0	4.0	89			178		14		3	7														
02/STR/PV	MED	42	2.65	2.72	NB/SB	0.07	385	24.0	4.0	4.0	1,369	1,369			7	110	68	93	57	2	67		0.15			2.0	2.0	171		0.15	68	10	
02/STR/PV	MED	42	2.72	2.78	NB/SB	0.06	317	45.5	4.0	4.0	1,884	1,884			9	151	94	145	79	2	92		0.12			2.0	2.0	141		0.12	56	8	
02/STR/PV	MED	42	2.78	2.88	NB	0.10	528	24.0	4.0	8.0	2,112	2,112			11	169	106	127	88		103	0.20				2.0	2.0	235	0.20		94	13	235
02/STR/PV	MED	42	2.88	2.98	NB	0.10	528	37.5	4.0	8.0	2,904	2,904			15	232	145	199	121		141	0.20				2.0	2.0	235	0.20		94	13	235
02/STR/PV	MED	42	2.98	3.06	NB	0.08	422	24.0	4.0	8.0	1,688	1,688			8	135	84	102	70		82	0.16				2.0	2.0	188	0.16		75	10	188
01/NHS/PV	MED	42	3.06	3.10	NB	0.04	211	35.5	4.0	8.0	1,114	1,114			6	89	56	75	46		54	0.08				2.0	2.0	94	0.08		38	5	94
	CONCRETE STRUCTURE MED-42-3.10R					0.034	178																										
01/NHS/PV	MED	42	3.13	3.30	NB	0.17	878	32.5	4.0	8.0	4,341	4,341			22	347	217	286	181		211	0.33				2.0	2.0	390	0.33		156	22	390
01/NHS/PV	MED	42	3.30	4.59	NB	1.29	6,811	24.0	4.0	8.0	27,244	27,244			136	2,180	1,362	1,640	1,135		1,324	2.58				2.0	2.0	3,027	2.58		1,211	168	3,027
	CONCRETE STRUCTURE MED-42-4.60R					0.032	169																										
01/NHS/PV	MED	42	4.62	4.82	NB	0.20	1,045	24.0	4.0	8.0	4,180	4,180			21	334	209	252	174		203	0.40				2.0	2.0	464	0.40		186	26	464
01/NHS/PV	MED	42	4.82	4.87	NB	0.05	264	28.4	4.0	8.0	1,185	1,185			6	95	59	75	49		58	0.10				2.0	2.0	117	0.10		47	7	117
01/NHS/PV	MED	42	4.87	5.38	NB	0.51	2,693	24.0	4.0	8.0	10,772	10,772			54	862	539	648	449		524	1.02				2.0	2.0	1,197	1.02		479	66	1,197
	CONCRETE STRUCTURE MED-42-5.39R					0.047	250																										
01/NHS/PV	MED	42	5.43	5.88	NB	0.45	2,390	24.0	4.0	8.0	9,560	9,560			48	765	478	575	398		465	0.91				2.0	2.0	1,062	0.91		425	59	1,062
	CONCRETE STRUCTURE MED-42-5.89R					0.033	173																										
01/NHS/PV	MED	42	5.91	6.32	NB	0.41	2,150	24.0	4.0	8.0	8,600	8,600			43	688	430	518	358		418	0.81				2.0	2.0	956	0.81		382	53	956
01/NHS/PV	MED	42	6.32	6.39	NB	0.07	370	30.0	4.0	8.0	1,727	1,727			9	138	86	111	72		84	0.14				2.0	2.0	164	0.14		66	9	164
01/NHS/PV	MED	42	6.39	6.82	NB	0.43	2,270	24.0	4.0	8.0	9,080	9,080			45	726	454	546	378		441	0.86				2.0	2.0	1,009	0.86		404	56	1,009
01/NHS/PV	MED	42	6.82	6.91	NB	0.09	475	32.5	4.0	8.0	2,349	2,349			12	188	117	155	98		114	0.18				2.0	2.0	211	0.18		84	12	211
01/NHS/PV	RAMP D1 (US 42 NB TO US 224/SR 421)					0.17	897	15.5	3.0	6.0	2,443	2,443			12	195	122	140	102		119						2.0	199	0.17		80	11	199
02/STR/PV	RAMP C2 (US 42 NB TO US 42 NB)					0.21	1,091	14.0	3.0	6.0	2,789	2,789			14	223	139	153	116		136						2.0	242	0.21		97	13	242
02/STR/PV	RAMP C2B (US 42 NB TO SR 421)					0.03	133	11.0	3.0	6.0	295	295			1	24	15	15	12		14						2.0	30	0.03		12	2	30
06/SAF/OT	MED	42	1.89	2.78	NB/SB	0.89	4,699																		0.89	4,699							
NORTHBOUND SUBTOTAL (01/NHS/PV)												82,595			414	6,607	4,129	5,021	3,440		4,015	7.41						7.58		3,558	494	8,890
NORTHBOUND SUBTOTAL (02/STR/PV)												26,688	178	356	133	2,164	1,333	1,776	1,126	23	1,298	0.56	1.66					0.79	1.66	1,151	160	930
NORTHBOUND SUBTOTAL (06/SAF/OT)																									0.89	4,699							
TOTALS CARRIED TO THE GENERAL SUMMARY												109,283	178	356	547	8,771	5,462	6,797	4,566	23	5,313	7.97	1.66	0.89	4,699			8.37	1.66	4,709	654	9,820

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
KRB 6-30-21

PROJECT ID
79761

SHEET 29 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)
MODEL: MED-42 NB PAPERSIZE: 17x11in.) DATE: 11/3/2021 TIME: 11:54:30 AM USER: kslay
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Roadway\Sheets\79761_G0001.dgn

PLAN SPLIT	COUNTY	ROUTE	LOG POINT TO LOG POINT		DIRECTION	LENGTH		AVERAGE WIDTH	AVERAGE PAVED SHOULDER WIDTH		PAVEMENT AREA	254		407		442		861	618	AGGREGATE SHOULDER PROPOSED WIDTH		AGGREGATE SHOULDER AREA	209	408	617	617
						MILE	FEET		SL	SR		PAVEMENT PLANING, ASPHALT CONCRETE (3.25")	PATCHING PLANED SURFACE	TACK COAT (@ 0.08 GAL/SY)	TACK COAT (@ 0.05 GAL/SY)	ANTI-SEGREGATION EQUIPMENT	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447) (1.50")	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446) (1.75")	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	SL	SR		LINEAR GRADING	PRIME COAT, AS PER PLAN (@ 0.40 GAL/SY)	COMPACTED AGGREGATE 2 INCHES	SHOULDER PREPARATION
			STRAIGHT LINE MILEAGE					FT	FT	FT	SY	SY	SY	GAL	GAL	CY	CY	CY	MILE	FT	FT	SY	MILE	GAL	CY	SY
02/STR/PV	MED	42	2.78	2.89	SB	0.11	581	24.0	4.0	8.0	2,324	2,324	12	186	116	140	97	113	0.22	2.0	2.0	258	0.22	103	14	258
02/STR/PV	MED	42	2.89	3.03	SB	0.14	739	33.0	4.0	8.0	3,695	3,695	18	296	185	245	154	180	0.28	2.0	2.0	328	0.28	131	18	328
02/STR/PV	MED	42	3.03	3.06	SB	0.03	158	24.0	4.0	8.0	632	632	3	51	32	38	26	31	0.06	2.0	2.0	70	0.06	28	4	70
01/NHS/PV	MED	42	3.06	3.10	SB	0.04	211	24.0	4.0	8.0	844	844	4	68	42	51	35	41	0.08	2.0	2.0	94	0.08	38	5	94
CONCRETE STRUCTURE MED-42-3.10L						0.034	178																			
01/NHS/PV	MED	42	3.13	3.19	SB	0.06	297	24.0	4.0	8.0	1,188	1,188	6	95	59	72	50	58	0.11	2.0	2.0	132	0.11	53	7	132
01/NHS/PV	MED	42	3.19	3.29	SB	0.10	528	36.5	4.0	8.0	2,845	2,845	14	228	142	193	119	138	0.20	2.0	2.0	235	0.20	94	13	235
01/NHS/PV	MED	42	3.29	4.59	SB	1.30	6,864	24.0	4.0	8.0	27,456	27,456	137	2,196	1,373	1,652	1,144	1,335	2.60	2.0	2.0	3,051	2.60	1,220	169	3,051
CONCRETE STRUCTURE MED-42-4.60L						0.032	169																			
01/NHS/PV	MED	42	4.62	4.83	SB	0.21	1,098	24.0	4.0	8.0	4,392	4,392	22	351	220	264	183	214	0.42	2.0	2.0	488	0.42	195	27	488
01/NHS/PV	MED	42	4.83	4.88	SB	0.05	264	29.7	4.0	8.0	1,223	1,223	6	98	61	79	51	59	0.10	2.0	2.0	117	0.10	47	7	117
01/NHS/PV	MED	42	4.88	5.37	SB	0.49	2,587	24.0	4.0	8.0	10,348	10,348	52	828	517	623	431	503	0.98	2.0	2.0	1,150	0.98	460	64	1,150
CONCRETE STRUCTURE MED-42-5.39L						0.047	250																			
01/NHS/PV	MED	42	5.42	5.87	SB	0.45	2,390	24.0	4.0	8.0	9,560	9,560	48	765	478	575	398	465	0.91	2.0	2.0	1,062	0.91	425	59	1,062
CONCRETE STRUCTURE MED-42-5.89L						0.033	173																			
01/NHS/PV	MED	42	5.90	6.34	SB	0.44	2,309	24.0	4.0	8.0	9,236	9,236	46	739	462	556	385	449	0.87	2.0	2.0	1,026	0.87	410	57	1,026
01/NHS/PV	MED	42	6.34	6.41	SB	0.07	370	29.7	4.0	8.0	1,714	1,714	9	137	86	110	71	83	0.14	2.0	2.0	164	0.14	66	9	164
01/NHS/PV	MED	42	6.41	6.64	SB	0.23	1,214	24.0	4.0	8.0	4,856	4,856	24	388	243	292	202	236	0.46	2.0	2.0	540	0.46	216	30	540
01/NHS/PV	MED	42	6.64	6.80	SB	0.16	845	35.7	4.0	8.0	4,479	4,479	22	358	224	303	187	218	0.32	2.0	2.0	376	0.32	150	21	376
01/NHS/PV	MED	42	6.80	6.91	SB	0.11	581	33.0	4.0	8.0	2,905	2,905	15	232	145	192	121	141	0.22	2.0	2.0	258	0.22	103	14	258
01/NHS/PV	RAMP A1 (US 42 SB TO US 224 WB)					0.08	403	23.1	3.0	6.0	1,438	1,438	7	115	72	93	60	70		2.0	2.0	179	0.15	72	10	179
01/NHS/PV	RAMP A1B (US 42 SB TO SR 421)					0.01	65	15.8	3.0	6.0	178	178	1	14	9	10	7	9		2.0	2.0	29	0.02	12	2	29
02/STR/PV	RAMP A2 (US 42 SB TO US 42 SB)					0.16	858	13.0	3.0	6.0	2,098	2,098	10	168	105	112	87	102		2.0	2.0	381	0.33	153	21	381
02/STR/PV	RAMP E2 (US 42 NB TO US 42 SB)					0.07	380	13.9	3.0	6.0	966	966	5	77	48	53	40	47		2.0	2.0	169	0.14	67	9	169
01/NHS/PV	EXTRA AREA FOR INTERSECTIONS										798	798	4	64	40	72	33	39								
01/NHS/PV	EXTRA AREA FOR MEDIAN CROSSOVERS										305	305	2	24	15		13	15								
02/STR/PV	EXTRA AREA FOR INTERSECTIONS										1,194	1,194	6	96	60	108	50	58								
02/STR/PV	EXTRA AREA FOR MEDIAN CROSSOVERS										52	52	1	4	3		2	3								
SOUTHBOUND SUBTOTAL (01/NHS/PV)												83,765	419	6,700	4,188	5,137	3,490	4,073	7.41				7.59	3,561	494	8,901
SOUTHBOUND SUBTOTAL (02/STR/PV)												10,961	55	878	549	696	456	534	0.56				1.03	482	66	1,206
TOTALS CARRIED TO THE GENERAL SUMMARY												94,726	474	7,578	4,737	5,833	3,946	4,607	7.97				8.62	4,043	560	10,107

PAVEMENT & SHOULDER DATA
MED-42 SOUTHBOUND

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
KRB 6-30-21

PROJECT ID
79761

SHEET 30 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: MED-42 SB PAPERSIZE: ITxll(in.) DATE: 11/5/2021 TIME: 4:25 PM USER: ksalay
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01 Active Projects\District 03\Medina\79761\400-Engineering\Roadway\Sheets\79761_G000l.dgn

PLAN SPLIT	COUNTY	ROUTE	LOG POINT TO LOG POINT		DIRECTION	LENGTH		AVERAGE WIDTH	AVERAGE PAVED SHOULDER WIDTH		PAVEMENT AREA	254		407	407	442		861	618	AGGREGATE SHOULDER PROPOSED WIDTH		AGGREGATE SHOULDER AREA	209	408	617	617
						MILE	FEET		SL	SR		PAVEMENT PLANING, ASPHALT CONCRETE (3.25")	PATCHING PLANED SURFACE	TACK COAT (@ 0.08 GAL/SY)	TACK COAT (@ 0.05 GAL/SY)	ANTI-SEGREGATION EQUIPMENT	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447) (1.50")	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446) (1.75")	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	SL	SR		LINEAR GRADING	PRIME COAT, AS PER PLAN (@ 0.40 GAL/SY)	COMPACTED AGGREGATE 2 INCHES	SHOULDER PREPARATION
			STRAIGHT LINE MILEAGE					FT	FT	FT	SY	SY	SY	GAL	GAL	CY	CY	CY	MILE	FT	FT	SY	MILE	GAL	CY	SY
01/NHS/PV	MED	224	6.23	6.31	EB/WB	0.08	422	42.0	4.0	10.0	2,626	2,626	13	210	131	178	109	128		2.0	2.0	188	0.16	75	10	188
01/NHS/PV	MED	224	6.31	6.37	EB/WB	0.06	317	24.0	4.0	10.0	1,338	1,338	7	107	67	76	56	65		2.0	2.0	141	0.12	56	8	141
01/NHS/PV	MED	224	6.37	6.41	EB/WB	0.04	211	36.5	4.0	6.0	1,090	1,090	5	87	55	77	45	53		2.0	2.0	94	0.08	38	5	94
01/NHS/PV	MED	224	10.45	10.46	EB	0.01	53	48.0	4.0	8.0	353	353	2	28	18	26	15	17	0.02	2.0	2.0	24	0.02	9	1	24
01/NHS/PV	MED	224	10.46	10.59	EB	0.13	686	24.0	4.0	8.0	2,744	2,744	14	220	137	165	114	133	0.26	2.0	2.0	305	0.26	122	17	305
01/NHS/PV	MED	224	10.59	10.74	EB	0.15	792	35.5	4.0	8.0	4,180	4,180	21	334	209	282	174	203	0.30	2.0	2.0	352	0.30	141	20	352
01/NHS/PV	MED	224	10.74	11.26	EB	0.52	2,746	24.0	4.0	8.0	10,984	10,984	55	879	549	661	458	534	1.04	2.0	2.0	1,220	1.04	488	68	1,220
01/NHS/PV	MED	224	11.26	11.33	EB	0.07	370	29.4	4.0	8.0	1,702	1,702	9	136	85	109	71	83	0.14	2.0	2.0	164	0.14	66	9	164
01/NHS/PV	MED	224	11.33	12.11	EB	0.78	4,118	24.0	4.0	8.0	16,472	16,472	82	1,318	824	991	686	801	1.56	2.0	2.0	1,830	1.56	732	102	1,830
01/NHS/PV	MED	224	12.11	12.21	EB	0.10	528	31.4	4.0	8.0	2,546	2,546	13	204	127	166	106	124	0.20	2.0	2.0	235	0.20	94	13	235
01/NHS/PV	MED	224	12.21	12.75	EB	0.54	2,851	24.0	4.0	8.0	11,404	11,404	57	912	570	686	475	554	1.08	2.0	2.0	1,267	1.08	507	70	1,267
	CONCRETE STRUCTURE MED-224-12.76R					0.034	178																			
01/NHS/PV	MED	224	12.78	13.34	EB	0.56	2,937	24.0	4.0	8.0	11,748	11,748	59	940	587	707	490	571	1.11	2.0	2.0	1,305	1.11	522	73	1,305
01/NHS/PV	MED	224	13.34	13.59	EB	0.25	1,320	31.8			4,664	4,664	23	373	233	421	194	227	0.50	2.0	2.0	587	0.50	235	33	587
01/NHS/PV	MED	224	13.59	13.81	EB	0.22	1,162	24.0	4.0	8.0	4,648	4,648	23	372	232	280	194	226	0.44	2.0	2.0	516	0.44	207	29	516
01/NHS/PV	MED	224	13.81	13.93	EB	0.12	634	30.0			2,113	2,113	11	169	106	191	88	103	0.24	2.0	2.0	282	0.24	113	16	282
01/NHS/PV	MED	224	13.93	15.30	EB	1.37	7,234	24.0	4.0	8.0	28,936	28,936	145	2,315	1,447	1,742	1,206	1,407	2.74	2.0	2.0	3,215	2.74	1,286	179	3,215
01/NHS/PV	RAMP B1 (US 224 EB TO US 42 NB)					0.17	914	15.6	3.0	6.0	2,497	2,497	12	200	125	143	104	121			2.0	203	0.17	81	11	203
01/NHS/PV	RAMP C1 (US 224 EB TO US 42 SB)					0.09	497	13.2	3.0	6.0	1,226	1,226	6	98	61	66	51	60		2.0	2.0	221	0.19	88	12	221
01/NHS/PV	RAMP B2 (SR 421 NB TO US 224 EB)					0.26	1,384	14.3	3.0	6.0	3,584	3,584	18	287	179	199	149	174			2.0	308	0.26	123	17	308
EASTBOUND SUBTOTAL												114,855	575	9,189	5,742	7,166	4,785	5,584	9.63				10.62	4,983	693	12,457
01/NHS/PV	MED	224	10.45	10.51	WB	0.06	317	35.5	4.0	8.0	1,673	1,673	8	134	84	113	70	81	0.12	2.0	2.0	141	0.12	56	8	141
01/NHS/PV	MED	224	10.51	10.57	WB	0.06	317	24.0	4.0	8.0	1,268	1,268	6	101	63	76	53	62	0.12	2.0	2.0	141	0.12	56	8	141
01/NHS/PV	MED	224	10.57	10.66	WB	0.09	475	36.5	4.0	8.0	2,560	2,560	13	205	128	174	107	124	0.18	2.0	2.0	211	0.18	84	12	211
01/NHS/PV	MED	224	10.66	11.29	WB	0.63	3,326	24.0	4.0	8.0	13,304	13,304	67	1,064	665	801	554	647	1.26	2.0	2.0	1,478	1.26	591	82	1,478
01/NHS/PV	MED	224	11.29	11.36	WB	0.07	370	28.8	4.0	8.0	1,677	1,677	8	134	84	107	70	82	0.14	2.0	2.0	164	0.14	66	9	164
01/NHS/PV	MED	224	11.36	12.16	WB	0.80	4,224	24.0	4.0	8.0	16,896	16,896	84	1,352	845	1,017	704	821	1.60	2.0	2.0	1,877	1.60	751	104	1,877
01/NHS/PV	MED	224	12.16	12.26	WB	0.10	528	33.1	4.0	8.0	2,646	2,646	13	212	132	175	110	129	0.20	2.0	2.0	235	0.20	94	13	235
01/NHS/PV	MED	224	12.26	12.75	WB	0.49	2,587	24.0	4.0	8.0	10,348	10,348	52	828	517	623	431	503	0.98	2.0	2.0	1,150	0.98	460	64	1,150
	CONCRETE STRUCTURE MED-224-12.76L					0.034	178																			
01/NHS/PV	MED	224	12.78	13.35	WB	0.57	2,990	24.0	4.0	8.0	11,960	11,960	60	957	598	720	498	581	1.13	2.0	2.0	1,329	1.13	532	74	1,329
01/NHS/PV	MED	224	13.35	13.60	WB	0.25	1,320	30.0			4,400	4,400	22	352	220	397	183	214	0.50	2.0	2.0	587	0.50	235	33	587
01/NHS/PV	MED	224	13.60	13.90	WB	0.30	1,584	24.0	4.0	8.0	6,336	6,336	32	507	317	381	264	308	0.60	2.0	2.0	704	0.60	282	39	704
01/NHS/PV	MED	224	13.90	14.01	WB	0.11	581	32.0			2,066	2,066	10	165	103	186	86	100	0.22	2.0	2.0	258	0.22	103	14	258
01/NHS/PV	MED	224	14.01	15.40	WB	1.39	7,339	24.0	4.0	8.0	29,356	29,356	147	2,348	1,468	1,767	1,223	1,427	2.78	2.0	2.0	3,262	2.78	1,305	181	3,262
01/NHS/PV	RAMP B1B (SR 421 WB TO US 42 NB)					0.03	168	11.8	3.0	6.0	389	389	2	31	19	20	16	19			2.0	37	0.03	15	2	37
01/NHS/PV	RAMP C1B (US 224/SR 421 WB TO US 42 SB)					0.02	111	16.4	3.0	6.0	313	313	2	25	16	18	13	15		2.0	2.0	49	0.04	20	3	49
01/NHS/PV	RAMP D2 (US 224 WB TO US 42/SR 421)					0.09	459	14.7	3.0	6.0	1,209	1,209	6	97	60	68	50	59		2.0	2.0	204	0.17	82	11	204
01/NHS/PV	EXTRA AREA FOR INTERSECTIONS										1,752	1,752	9	140	88	158	73	85								
01/NHS/PV	EXTRA AREA FOR MEDIAN CROSSOVERS										1,260	1,260	6	101	63		53	61								
WESTBOUND SUBTOTAL												109,413	547	8,753	5,470	6,801	4,558	5,318	9.83				10.08	4,732	657	11,827
TOTALS CARRIED TO THE GENERAL SUMMARY (01/NHS/PV)												224,268	1,122	17,942	11,212	13,967	9,343	10,902	19.47				20.70	9,715	1,350	24,284

PAVEMENT & SHOULDER DATA
MED-224

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
KRB 6-30-21

PROJECT ID
79761

SHEET 31 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: MED-224 PAPERSIZE: 17x11(in.) DATE: 11/5/2021 TIME: 2:07:10 PM USER: ksday
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GUARDRAIL SUB-SUMMARY

LABEL	ITEM	EXTENSION	QUANTITY FROM GUARDRAIL AT SLM: 2.61	3.05	3.15/6.35	3.50/4.32	4.60	5.39	5.75/5.89	6.42	6.86	11.92	12.76	14.43	14.70	15.44	01/NHS/PV	02/STR/PV	TOTAL QUANTITY	UNIT	DESCRIPTION
R1	202	38000	850	755.5	1,326.25	1,775	2,968.75	2,643.75	2,662.5	1,437.5	1,162.5	975	1,893.75	2,200	787.5	887.5	21,338	987.5	22,325.5	FT	GUARDRAIL REMOVED
R4	202	38300		375	547.5	175	300	225	475		400		275				2,522.5	250	2,772.5	FT	GUARDRAIL REMOVED, BARRIER DESIGN
R8	202	42000									1					2	3		3	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A
R9	202	42010	4	2	6	4	3	2	5	1	8	2	2	2	2	2	40	5	45	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E
R10	202	42040		4	3	4	5	4	7	3	5	2	4	2	2	5	47	3	50	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T
R24	202	47000	4	3	9	2	8	8	10		6		8				54	4	58	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED
R27	202	47800		3	1	2	2	2	4		4		2				18	2	20	EACH	IMPACT ATTENUATOR REMOVED
E2-A	203	20001	10	15	25	30	35	35	35	15	25	10	25	25	10	15	295	15	310	CY	EMBANKMENT, AS PER PLAN
E3	209	15000	10.500	13.300	21.978	22.625	35.455	30.818	36.010	15.250	21.635	11.000	23.818	23.250	9.125	11.000	269.883	15.880	285.763	STA	RESHAPING UNDER GUARDRAIL
G4	606	13000	100				187.5	187.5	175				187.5				737.5	100	837.5	FT	GUARDRAIL, TYPE 5
G13	606	15050	375	710.5	1,158.75	262.5	356.25	43.75	1,725	25	700	975	137.5		787.5	912.5	7,656.75	512.5	8,169.25	FT	GUARDRAIL, TYPE MGS
G14	606	15100	375			1,437.5	2,425	2,412.5	637.5	1,412.5	312.5		1,568.75	2,200			12,406.25	375	12,781.25	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS
G15	606	15150			150	75			125		150						500		500	FT	GUARDRAIL, TYPE MGS HALF POST SPACING
G22	606	15550		375	520	175	300	225	475		400		275				2,495	250	2,745	FT	GUARDRAIL, BARRIER DESIGN, TYPE MGS
A9	606	26150	4	2	6	4	3	2	5	1	8	2	2	2	2	3	41	5	46	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016
A13	606	26550		4	3	4	5	4	7	3	6	2	4	2	2	5	48	3	51	EACH	ANCHOR ASSEMBLY, MGS TYPE T
B18	606	35002		2	8	2			2		6						20		20	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1
B26	606	35102		1	1												2		2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2
B31	606	35140	4				8	8	8				8				32	4	36	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4
I2	606	60012		3	1	2	2	2	4		4		2				18	2	20	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)
L1	622	25001		4	4												8		8	EACH	CONCRETE BARRIER END SECTION, TYPE D, AS PER PLAN
M4	626	00110	12	15	25	24	37	32	36	17	24	12	26	24	10	12	288	18	306	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL

CONCRETE REPAIR SUB-SUMMARY

EASTBOUND PAVEMENT REPAIRS (01/NHS/PV)

SLM BEGIN	SLM END	LANE	WIDTH FT	LENGTH FT	INDIVIDUAL REPAIR AREA SY	TYPE OF REPAIR	NUMBER OF REPAIRS	255 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, AS PER PLAN (13.0" CONCRETE) SY	255 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, AS PER PLAN (LONGITUDINAL CRACK) SY	255 FULL DEPTH PAVEMENT SAWING FT	257 DIAMOND GRINDING PORTLAND CEMENT CONCRETE PAVEMENT SY
15.30	15.40	LT	12	6	8.00	TRANS	14	112		504	
		RT	12	6	8.00	TRANS	3	24		108	
		LANE LINE	2	20	4.44	LONG	1		4	44	
15.40	15.50	LT	12	6	8.00	TRANS	6	48		216	
		RT	12	6	8.00	TRANS	8	64		288	9,838
		LANE LINE	2	20	4.44	LONG	11		49	484	
15.50	15.61	LT	12	6	8.00	TRANS	1	8		36	
		RT	12	6	8.00	TRANS	9	72		324	
		LANE LINE	2	20	4.44	LONG	6		27	264	
		EDGE LINE	2	20	4.44	LONG	6		27	264	
EASTBOUND SUB-TOTAL								328	107	2,532	9,838

WESTBOUND PAVEMENT REPAIRS (01/NHS/PV)

SLM BEGIN	SLM END	LANE	WIDTH FT	LENGTH FT	INDIVIDUAL REPAIR AREA SY	TYPE OF REPAIR	NUMBER OF REPAIRS	255 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, AS PER PLAN (13.0" CONCRETE) SY	255 FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, AS PER PLAN (LONGITUDINAL CRACK) SY	255 FULL DEPTH PAVEMENT SAWING FT	257 DIAMOND GRINDING PORTLAND CEMENT CONCRETE PAVEMENT SY
15.40	15.50	LT	12	6	8.00	TRANS	7	56		252	
		RT	12	6	8.00	TRANS	5	40		180	
		LANE LINE	2	20	4.44	LONG	10		44	440	
		EDGE LINE	2	20	4.44	LONG	6		27	264	
											7,554
15.50	15.61	LT	12	6	8.00	TRANS	11	88		396	
		RT	12	6	8.00	TRANS	6	48		216	
		LANE LINE	2	20	4.44	LONG	8		36	352	
		EDGE LINE	2	20	4.44	LONG	4		18	176	
WESTBOUND SUB-TOTAL								232	125	2,276	7,554
CONTINGENCY								140	58	1,202	
TOTALS CARRIED TO THE GENERAL SUMMARY (01/NHS/PV)								700	290	6,010	17,392

GUARDRAIL/CONCRETE REPAIR SUB-SUMMARY

MED-42-1.89/MED-224-(6.25)(10.45)
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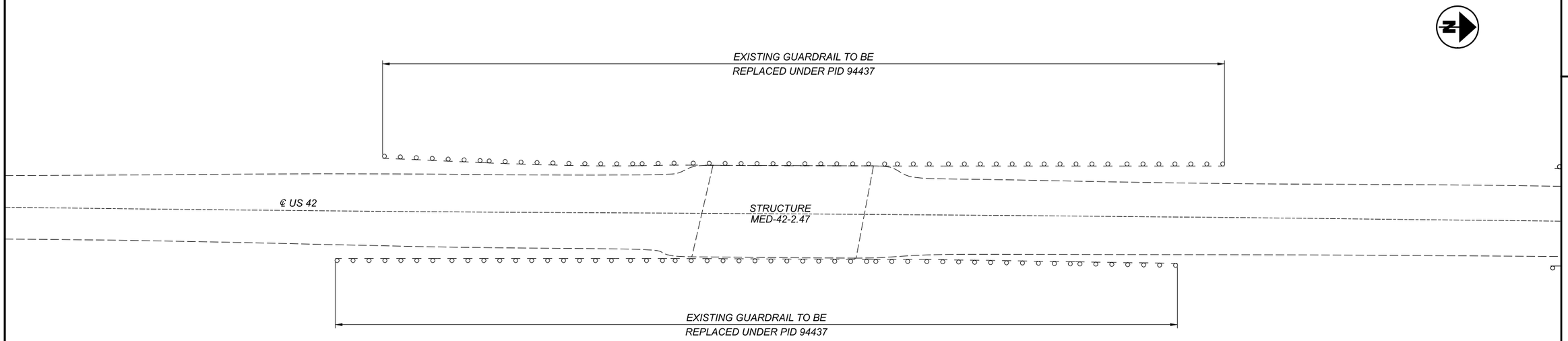
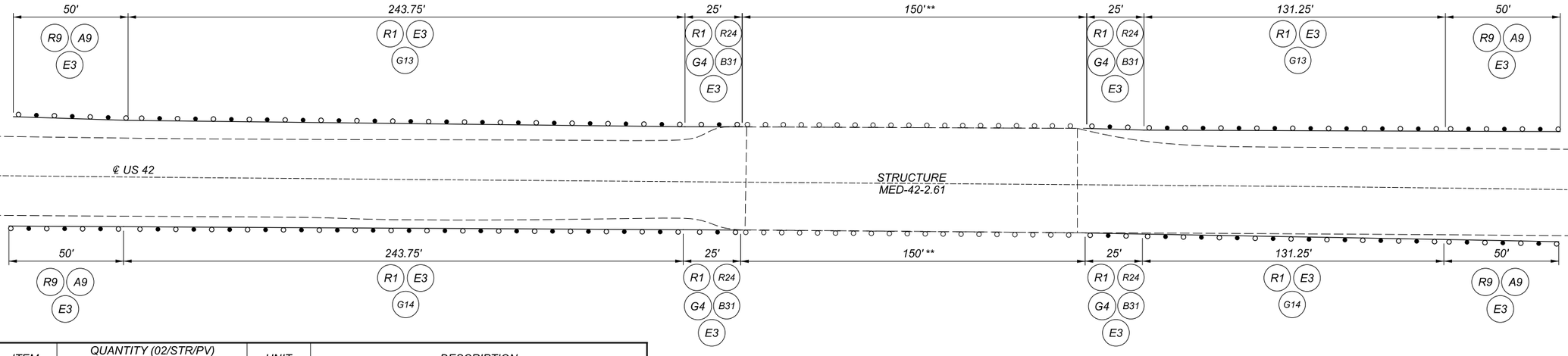
DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER JLL
REVIEWER ACM 6-24-21
PROJECT ID 79761
SHEET 32 TOTAL 79





LABEL	ITEM	QUANTITY (02/STR/PV)			UNIT	DESCRIPTION
		NB	SB	TOTAL		
R1	202	425	425	850	FT	GUARDRAIL REMOVED
R9	202	2	2	4	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E
R24	202	2	2	4	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED
E2-A	203	5	5	10	CY	EMBANKMENT, AS PER PLAN
E3	209	5.250	5.250	10.500	STA	RESHAPING UNDER GUARDRAIL
G4	606	50	50	100	FT	GUARDRAIL, TYPE 5
G13	606		375	375	FT	GUARDRAIL, TYPE MGS
G14	606	375		375	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS
A9	606	2	2	4	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016
B31	606	2	2	4	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4
M4	626	6	6	12	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL

ALL QUANTITIES CARRIED TO GUARDRAIL SUB-SUMMARY

**DEEP BEAM BRIDGE RAIL WITH TUBULAR BACKUP

HORIZONTAL SCALE IN FEET
0 12.5 25 50

GUARDRAIL DETAILS
MED 42 - 2.47/2.61

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
ACM 6-24-21

PROJECT ID
79761

SHEET 34 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Sheet I PAPERSIZE: 17x11(in.) DATE: 11/1/2021 TIME: 4:46:01 PM USER: ksalay
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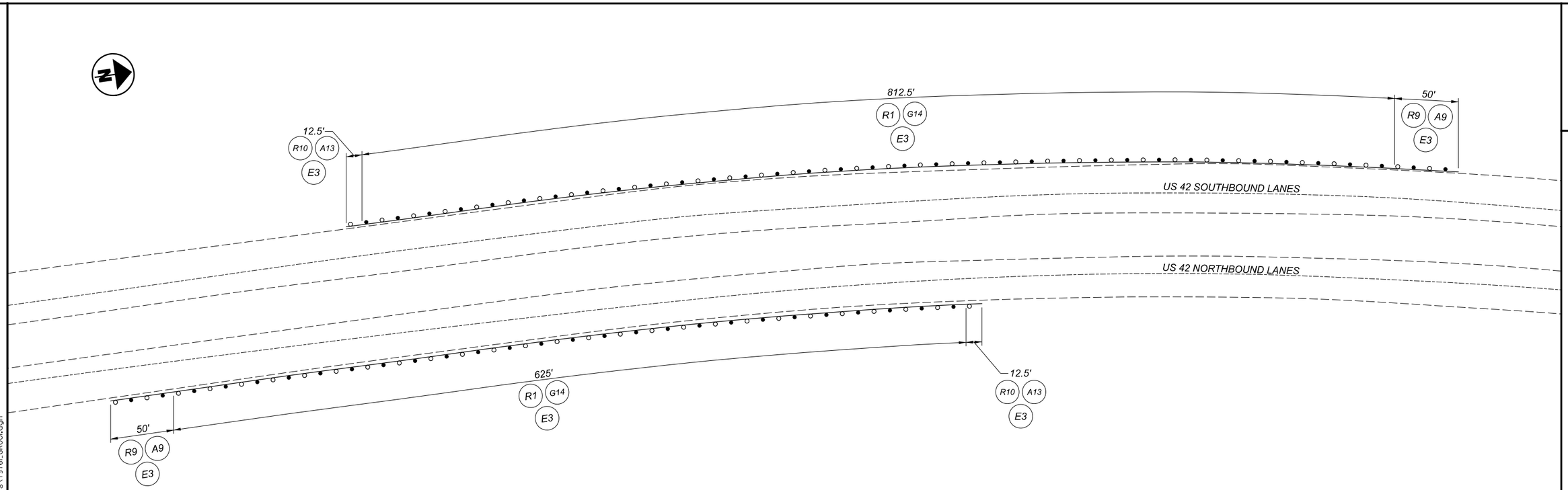

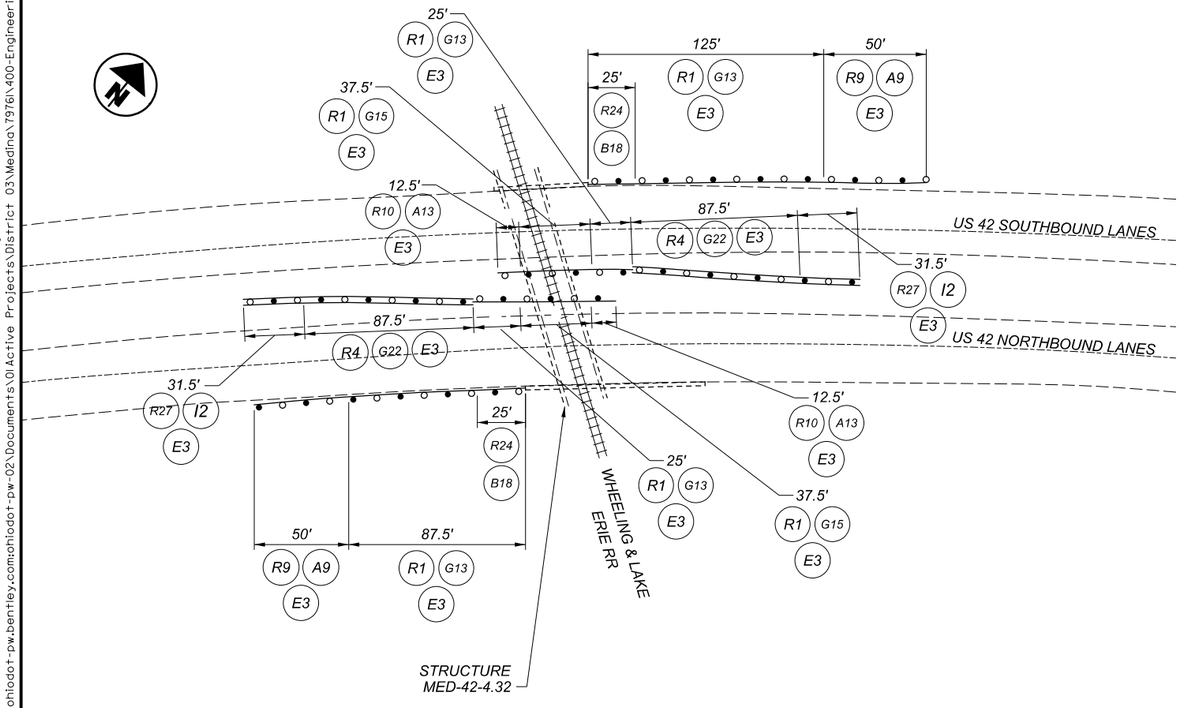

LABEL	ITEM	QUANTITY (01/NHS/PV)				UNIT	DESCRIPTION
		NB	SB	MEDIAN	TOTAL		
R1	202	712.5	937.5	125	1,775	FT	GUARDRAIL REMOVED
R4	202			175	175	FT	GUARDRAIL REMOVED, BARRIER DESIGN
R9	202	2	2		4	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E
R10	202	1	1	2	4	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T
R24	202	1	1		2	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED
R27	202			2	2	EACH	IMPACT ATTENUATOR REMOVED
E2-A	203	10	15	5	30	CY	EMBANKMENT, AS PER PLAN
E3	209	8.250	10.500	3.875	22.625	STA	RESHAPING UNDER GUARDRAIL
G13	606	87.5	125	50	262.5	FT	GUARDRAIL, TYPE MGS
G14	606	625	812.5		1,437.5	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS
G15	606			75	75	FT	GUARDRAIL, TYPE MGS HALF POST SPACING
G22	606			175	175	FT	GUARDRAIL, BARRIER DESIGN, TYPE MGS
A9	606	2	2		4	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016
A13	606	1	1	2	4	EACH	ANCHOR ASSEMBLY, MGS TYPE T
B18	606	1	1		2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1
I2	606			2	2	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)
M4	626	9	11	4	24	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL

ALL QUANTITIES CARRIED TO GUARDRAIL SUB-SUMMARY

HORIZONTAL SCALE IN FEET
0 20 40 80

GUARDRAIL DETAILS
MED-42-3.50/4.32

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
ACM 6-24-21

PROJECT ID
79761

SHEET 37 TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Sheet 4 PAPERSIZE: ltxll(ln.) DATE: 11/1/2021 TIME: 4:48:15 PM USER: ksday
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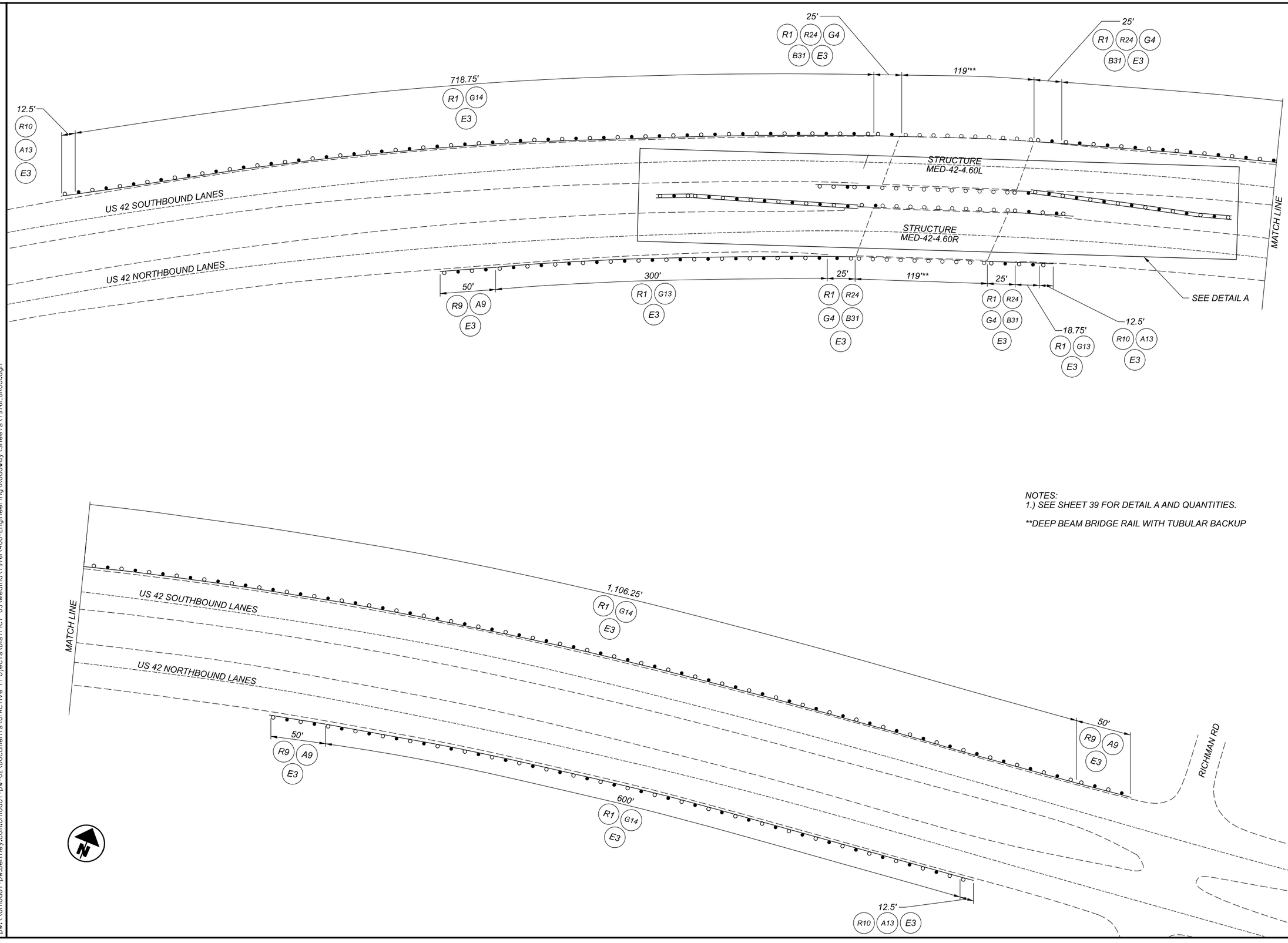

HORIZONTAL SCALE IN FEET
0 20 40 80

GUARDRAIL DETAILS MED-42-4.60

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER	JLL
REVIEWER	ACM 6-24-21
PROJECT ID	79761
SHEET	38
TOTAL	79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Sheet 5 PAPERSIZE: 17x11(in.) DATE: 11/1/2021 TIME: 4:49:28 PM USER: ksalay
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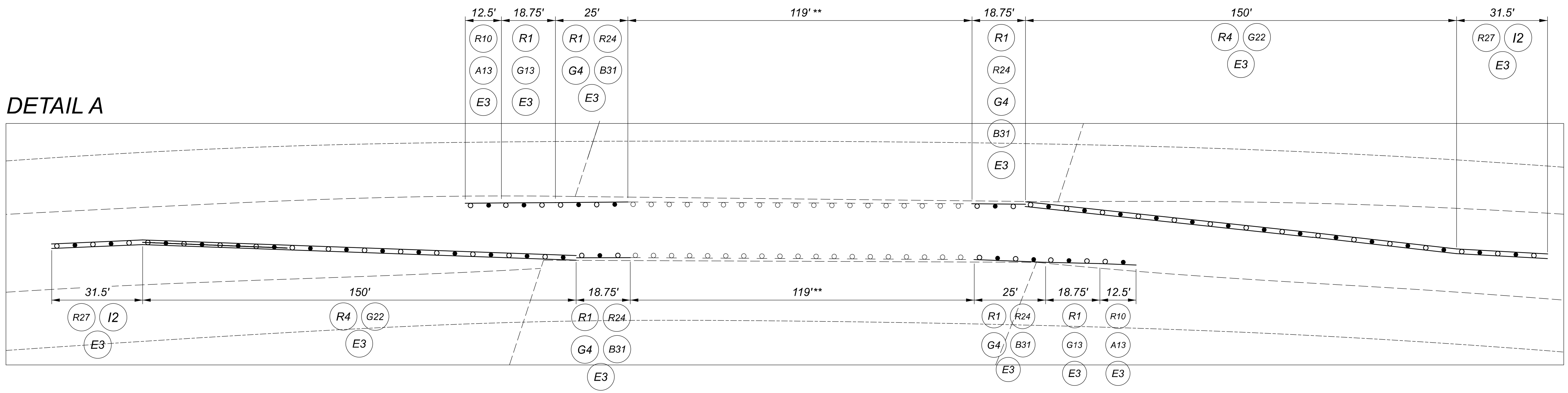
DETAIL A



LABEL	ITEM	QUANTITY (01/NHS/PV)				UNIT	DESCRIPTION
		NB	SB	MEDIAN	TOTAL		
R1	202	968.75	1,875	125	2,968.75	FT	GUARDRAIL REMOVED
R4	202			300	300	FT	GUARDRAIL REMOVED, BARRIER DESIGN
R9	202	2	1		3	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E
R10	202	2	1	2	5	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T
R24	202	2	2	4	8	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED
R27	202			2	2	EACH	IMPACT ATTENUATOR REMOVED
E2-A	203	10	20	5	35	CY	EMBANKMENT, AS PER PLAN
E3	209	10.950	19.375	5.130	35.455	STA	RESHAPING UNDER GUARDRAIL
G4	606	50	50	87.5	187.5	FT	GUARDRAIL, TYPE 5
G13	606	318.75		37.5	356.25	FT	GUARDRAIL, TYPE MGS
G14	606	600	1,825		2,425	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS
G22	606			300	300	FT	GUARDRAIL, BARRIER DESIGN, TYPE MGS
A9	606	2	1		3	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016
A13	606	2	1	2	5	EACH	ANCHOR ASSEMBLY, MGS TYPE T
B31	606	2	2	4	8	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4
I2	606			2	2	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)
M4	626	11	20	6	37	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL

ALL QUANTITIES CARRIED TO GUARDRAIL SUB-SUMMARY

GUARDRAIL DETAILS
MED-42-4.60 (CONT'D)

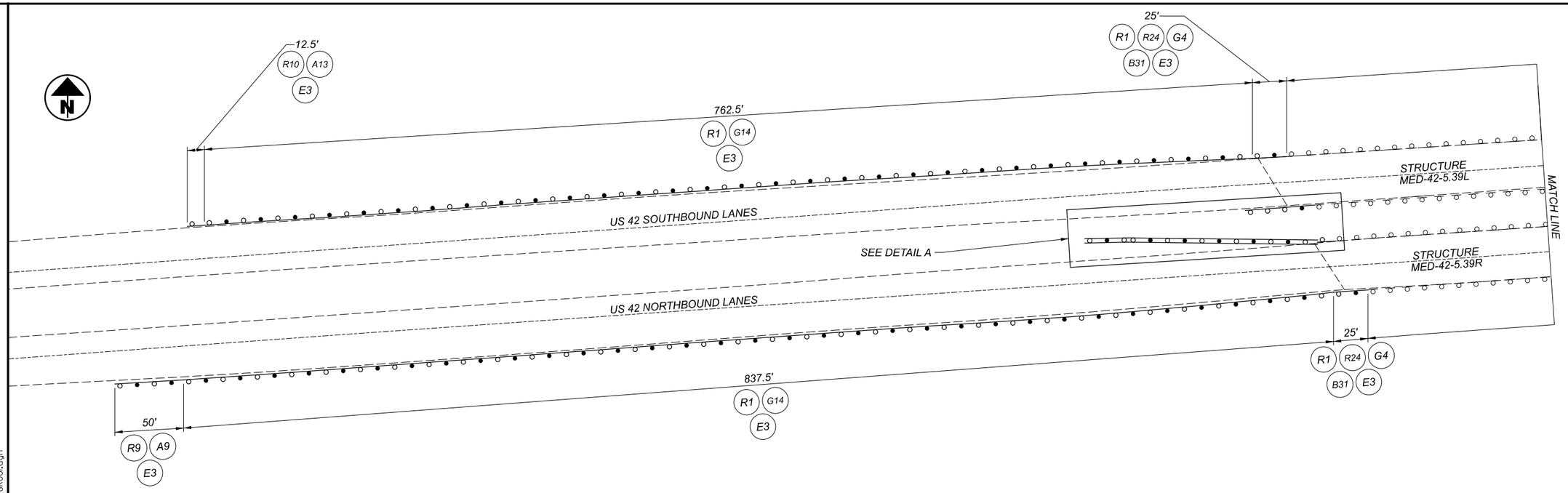
DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

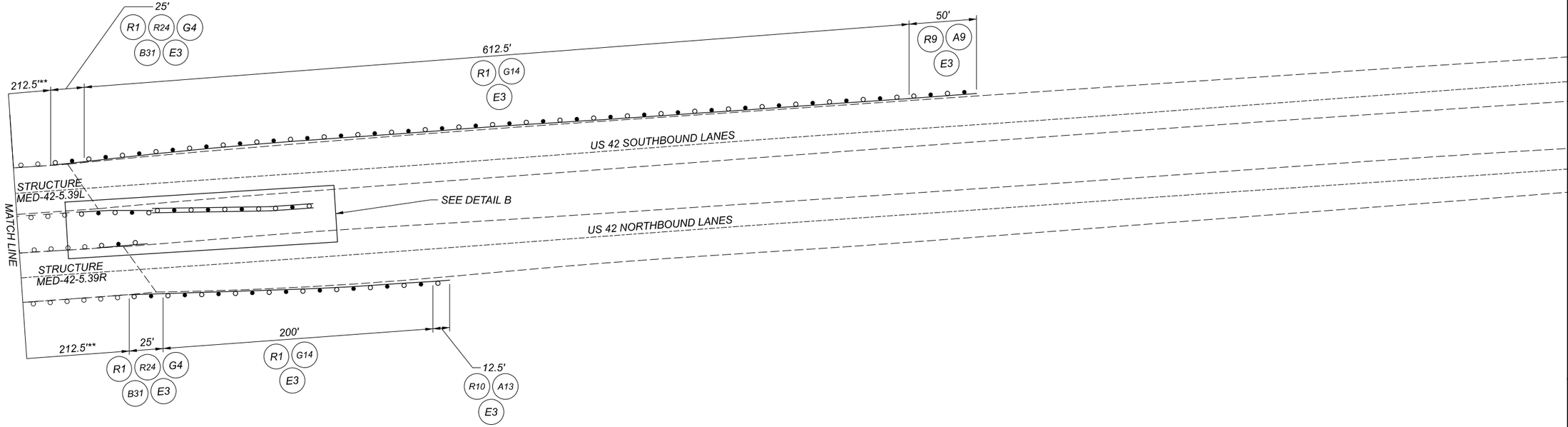
DESIGNER
JLL

REVIEWER
ACM 6-24-21

PROJECT ID
79761

SHEET 39 TOTAL 79





NOTES:
1.) SEE SHEET 41 FOR DETAIL A, DETAIL B AND QUANTITIES.

***DEEP BEAM BRIDGE RAIL WITH TUBULAR BACKUP*

HORIZONTAL SCALE IN FEET
0 20 40 80

GUARDRAIL DETAILS MED-42-5.39

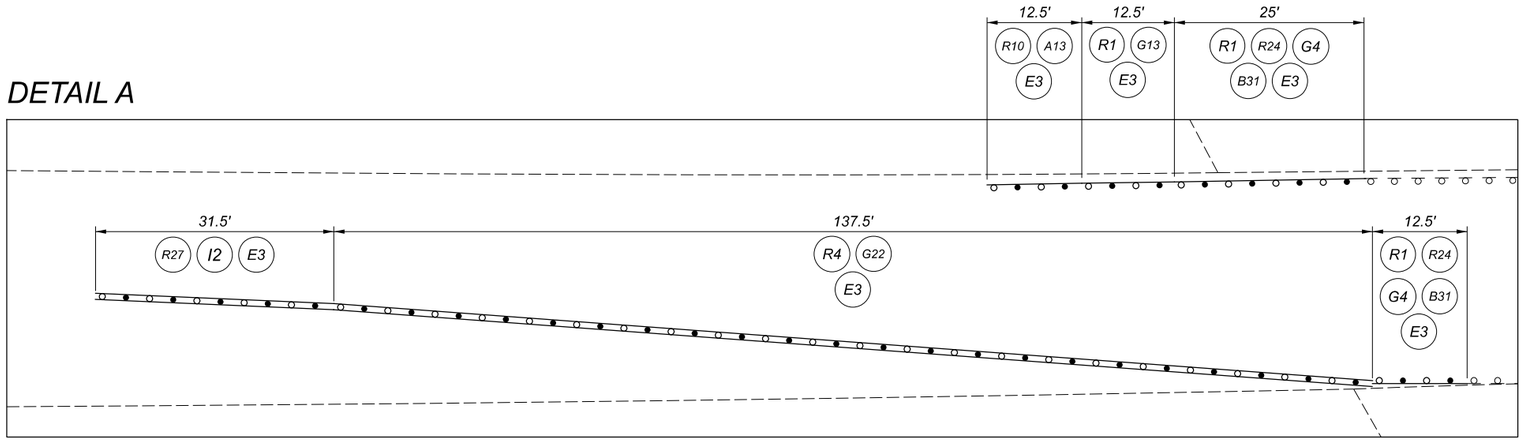
DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER	JLL
REVIEWER	ACM 6-24-21
PROJECT ID	79761
SHEET	40
TOTAL	79

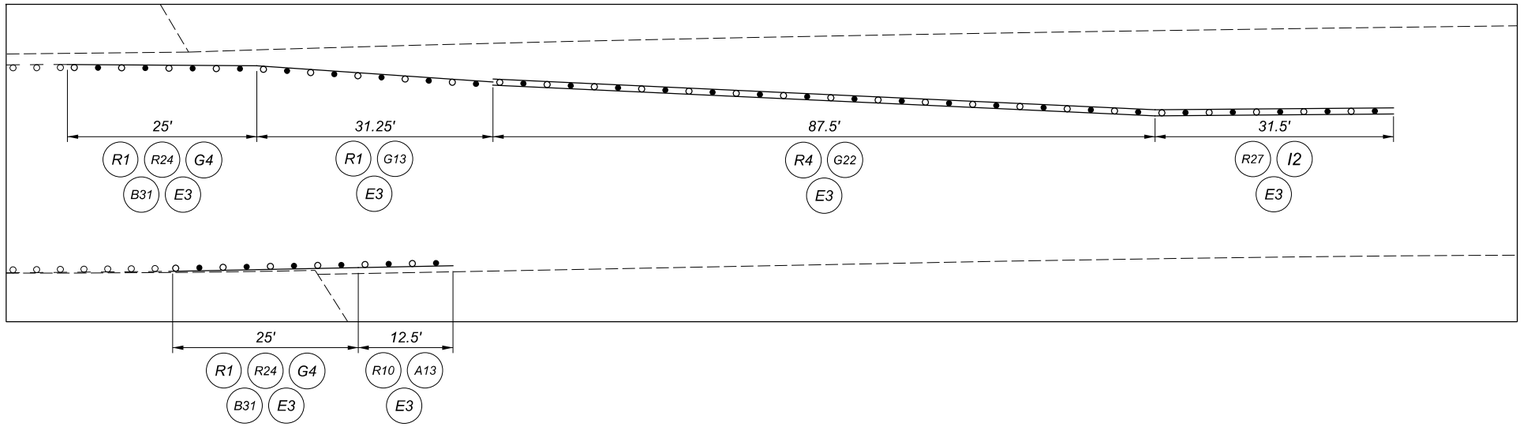
MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Sheet 7 PAPERSIZE: 17x11(in.) DATE: 11/1/2021 TIME: 4:5:20 PM USER: ksaloy
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01Active Projects\District 03\Medina\79761\400-Engineering\Roadway\Sheets\79761_GR001.dgn

DETAIL A



DETAIL B



LABEL	ITEM	QUANTITY (01/NHS/PV)				UNIT	DESCRIPTION
		NB	SB	MEDIAN	TOTAL		
R1	202	1,087.5	1,425	131.25	2,643.75	FT	GUARDRAIL REMOVED
R4	202			225	225	FT	GUARDRAIL REMOVED, BARRIER DESIGN
R9	202	1	1		2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E
R10	202	1	1	2	4	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T
R24	202	2	2	4	8	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED
R27	202			2	2	EACH	IMPACT ATTENUATOR REMOVED
E2-A	203	15	15	5	35	CY	EMBANKMENT, AS PER PLAN
E3	209	11.500	14.875	4.443	30.818	STA	RESHAPING UNDER GUARDRAIL
G4	606	50	50	87.5	187.5	FT	GUARDRAIL, TYPE 5
G13	606			43.75	43.75	FT	GUARDRAIL, TYPE MGS
G14	606	1,037.5	1,375		2,412.5	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS
G22	606			225	225	FT	GUARDRAIL, BARRIER DESIGN, TYPE MGS
A9	606	1	1		2	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016
A13	606	1	1	2	4	EACH	ANCHOR ASSEMBLY, MGS TYPE T
B31	606	2	2	4	8	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4
I2	606			2	2	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)
M4	626	12	15	5	32	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL

ALL QUANTITIES CARRIED TO GUARDRAIL SUB-SUMMARY

GUARDRAIL DETAILS
MED-42-5.39 (CONT'D)

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
ACM 6-24-21

PROJECT ID
79761

SHEET 41 TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Sheet 8 PAPERSIZE: ITxII(In.) DATE: 11/1/2021 TIME: 4:52:02 PM USER: ksalay
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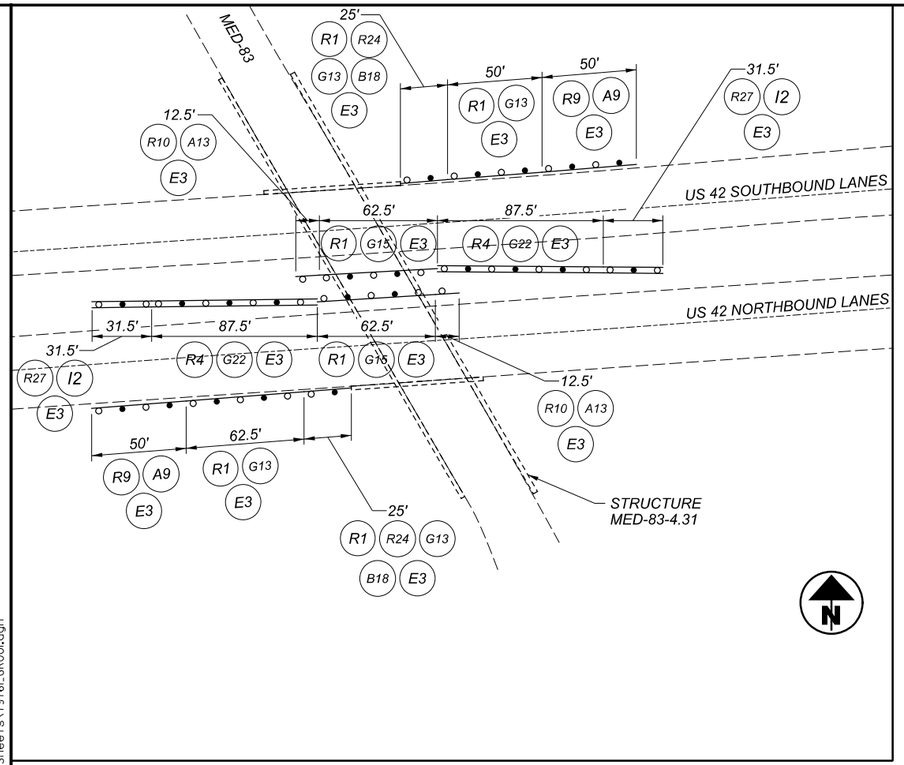

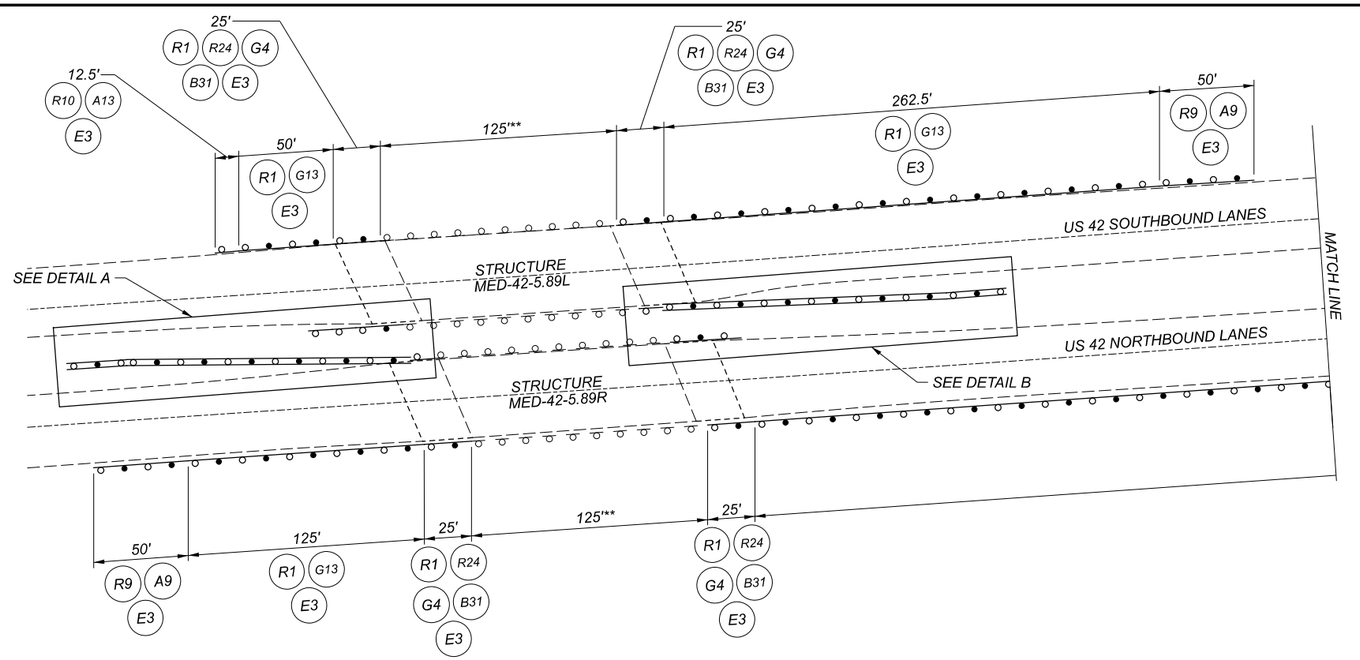

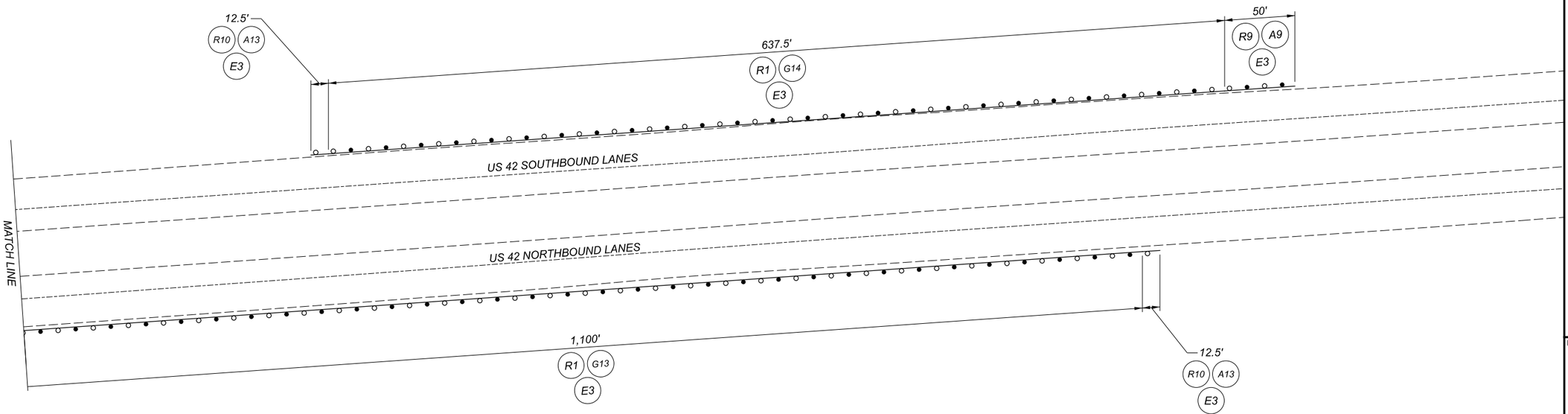

NOTES:
1.) SEE SHEET 43 FOR DETAIL A, DETAIL B AND QUANTITIES.

**DEEP BEAM BRIDGE RAIL WITH TUBULAR BACKUP

HORIZONTAL SCALE IN FEET
0 20 40 80

GUARDRAIL DETAILS
MED-42-5.75/5.89

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER	JLL
REVIEWER	ACM 6-24-21
PROJECT ID	79761
SHEET	42
TOTAL	79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Sheet 9 PAPERSIZE: 17x11(in.) DATE: 11/1/2021 TIME: 4:52:49 PM USER: ksday
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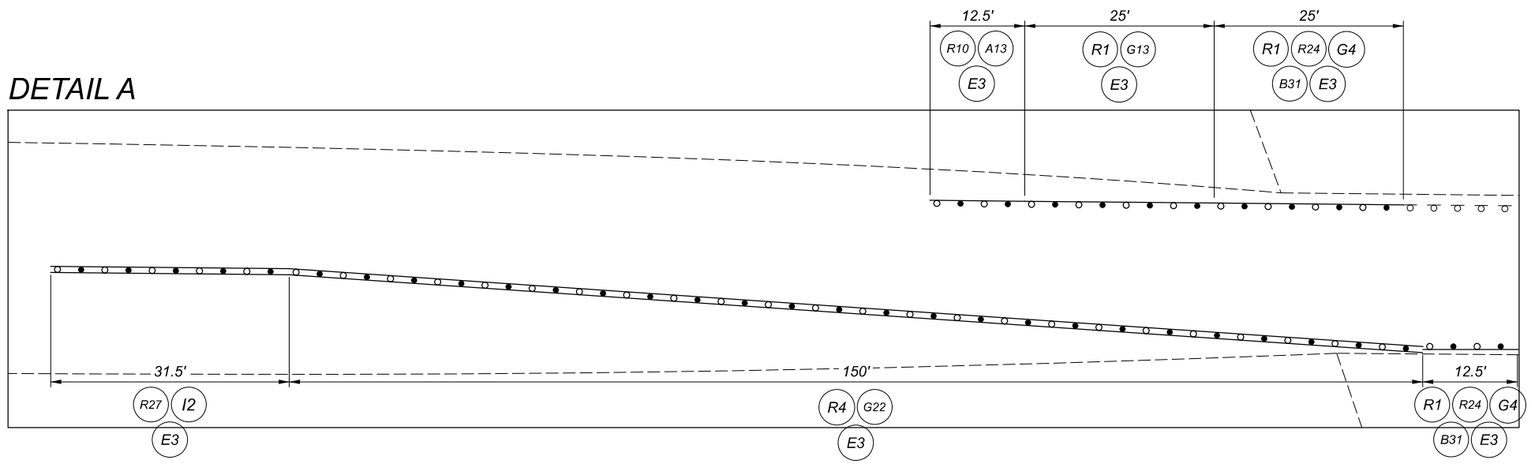
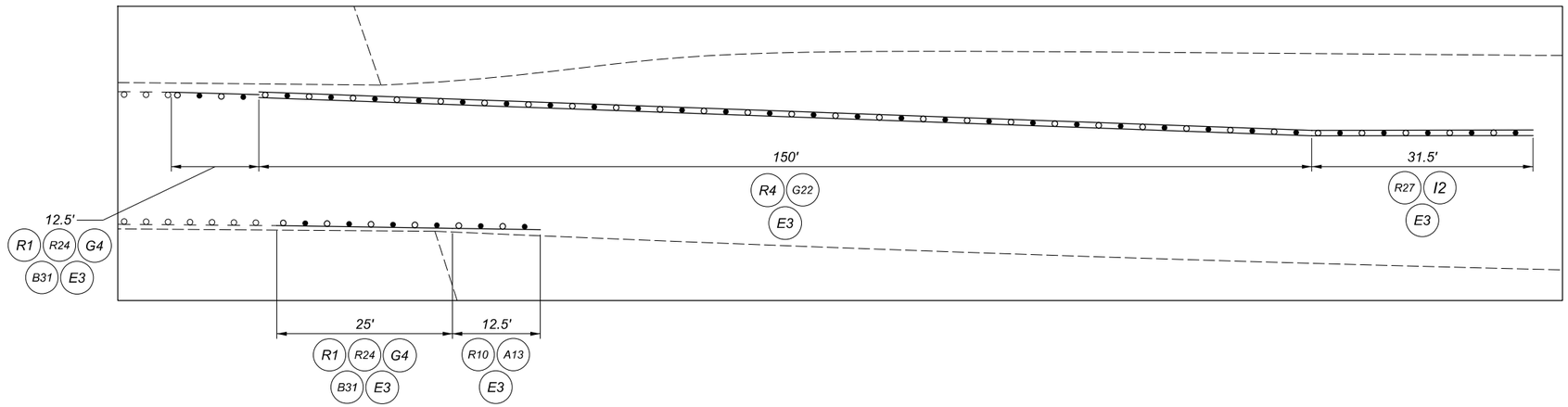
DETAIL A



DETAIL B



LABEL	ITEM	QUANTITY (01/NHS/PV)				UNIT	DESCRIPTION
		NB	SB	MEDIAN	TOTAL		
R1	202	1,362.5	1,075	225	2,662.5	FT	GUARDRAIL REMOVED
R4	202			475	475	FT	GUARDRAIL REMOVED, BARRIER DESIGN
R9	202	2	3		5	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E
R10	202	1	2	4	7	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T
R24	202	3	3	4	10	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED
R27	202			4	4	EACH	IMPACT ATTENUATOR REMOVED
E2-A	203	15	10	10	35	CY	EMBANKMENT, AS PER PLAN
E3	209	14.750	12.500	8.760	36.010	STA	RESHAPING UNDER GUARDRAIL
G4	606	50	50	75	175	FT	GUARDRAIL, TYPE 5
G13	606	1,312.5	387.5	25	1,725	FT	GUARDRAIL, TYPE MGS
G14	606		637.5		637.5	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS
G15	606			125	125	FT	GUARDRAIL, TYPE MGS HALF POST SPACING
G22	606			475	475	FT	GUARDRAIL, BARRIER DESIGN, TYPE MGS
A9	606	2	3		5	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016
A13	606	1	2	4	7	EACH	ANCHOR ASSEMBLY, MGS TYPE T
B18	606	1	1		2	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1
B31	606	2	2	4	8	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4
I2	606			4	4	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)
M4	626	15	12	9	36	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL

ALL QUANTITIES CARRIED TO GUARDRAIL SUB-SUMMARY

GUARDRAIL DETAILS
MED-42-5.75/5.89 (CONT'D)

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
ACM 6-24-21

PROJECT ID
79761

SHEET 43 TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Sheet 10 PAPERSIZE: 17x11(in.) DATE: 11/1/2021 TIME: 4:53:35 PM USER: ksalay
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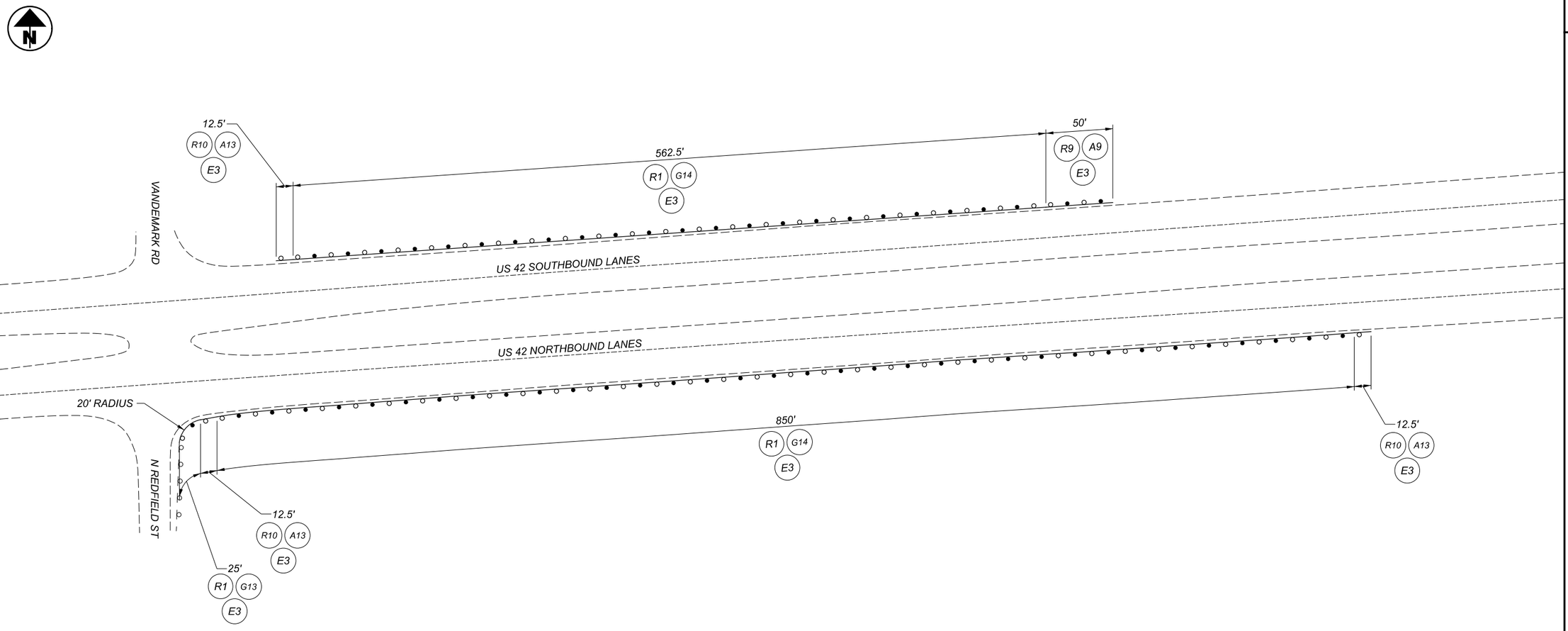

LABEL	ITEM	QUANTITY (01/NHS/PV)			UNIT	DESCRIPTION
		NB	SB	TOTAL		
R1	202	875	562.5	1,437.5	FT	GUARDRAIL REMOVED
R9	202		1	1	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E
R10	202	2	1	3	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T
E2-A	203	10	5	15	CY	EMBANKMENT, AS PER PLAN
E3	209	9.000	6.250	15.250	STA	RESHAPING UNDER GUARDRAIL
G13	606	25		25	FT	GUARDRAIL, TYPE MGS
G14	606	850	562.5	1,412.5	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS
A9	606		1	1	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016
A13	606	2	1	3	EACH	ANCHOR ASSEMBLY, MGS TYPE T
M4	626	10	7	17	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL

ALL QUANTITIES CARRIED TO GUARDRAIL SUB-SUMMARY

HORIZONTAL SCALE IN FEET
0 20 40 80

GUARDRAIL DETAILS
MED-42-6.42

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
ACM 6-24-21

PROJECT ID
79761

SHEET 44 TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Sheet II PAPERSIZE: 17x11(in.) DATE: 11/1/2021 TIME: 4:54:15 PM USER: ksalay
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MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Sheet 12 PAPERSIZE: 17x11(in.) DATE: 11/1/2021 TIME: 4:55:09 PM USER: ksalay
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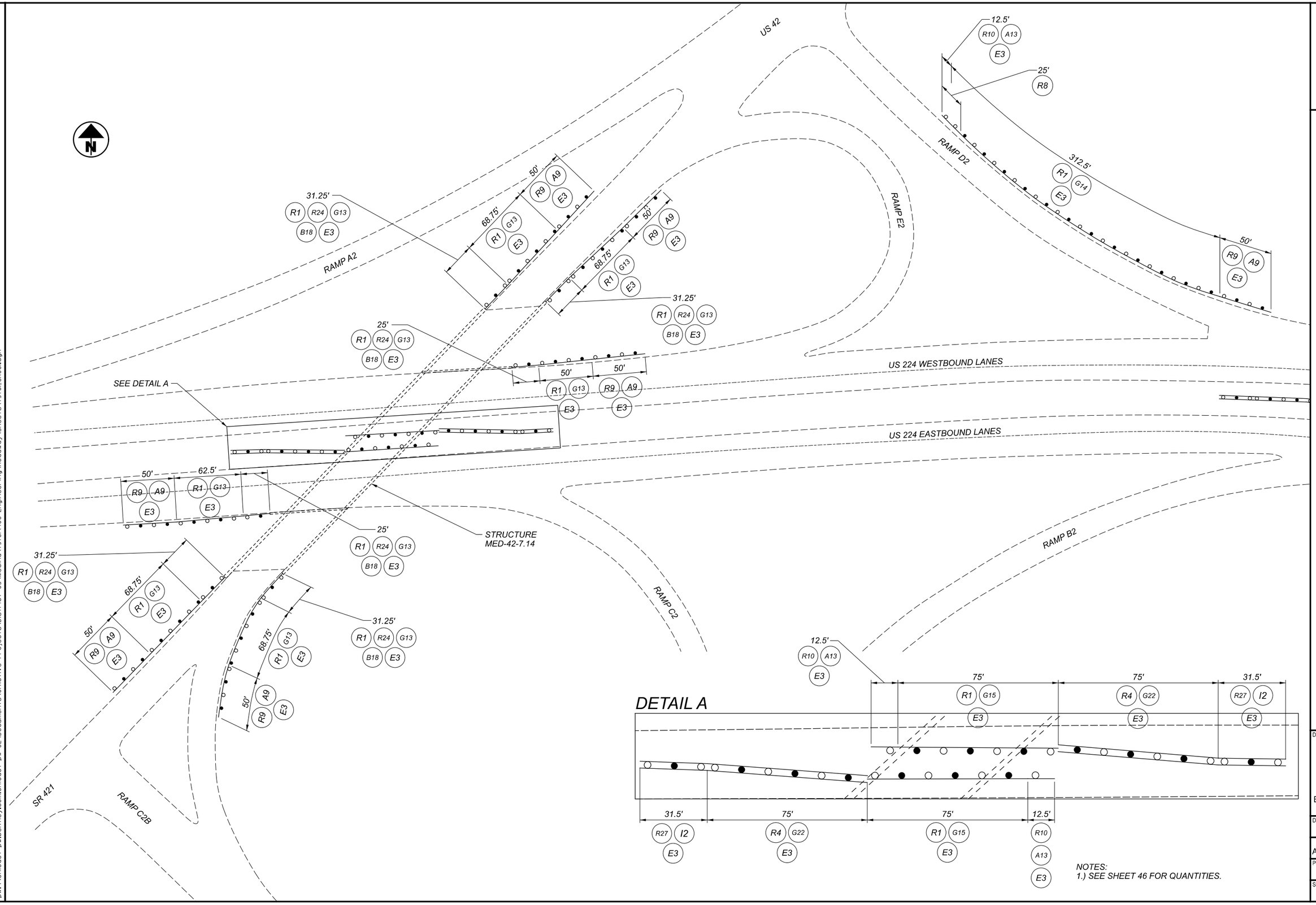


HORIZONTAL SCALE IN FEET
0 25 50 100

NOTES:
1.) SEE SHEET 46 FOR QUANTITIES.

GUARDRAIL DETAILS
MED-42-6.86

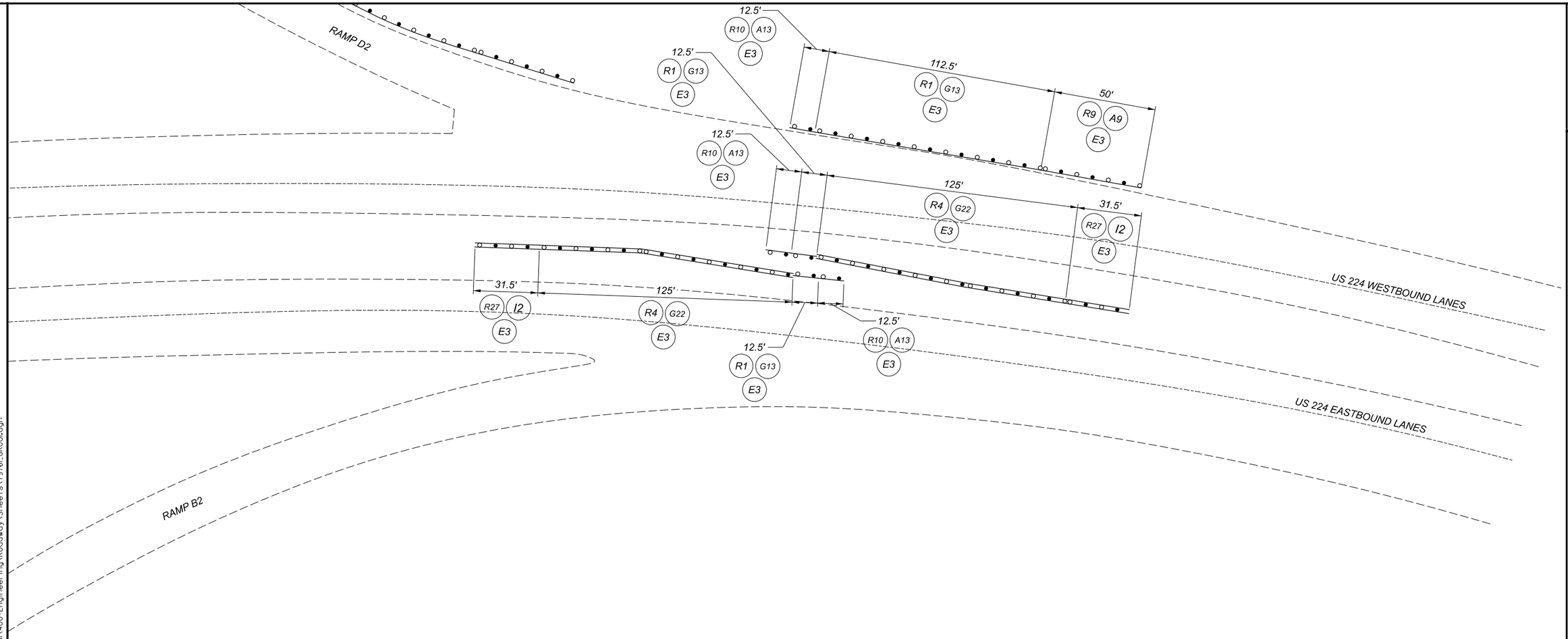
DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
ACM 6-24-21

PROJECT ID
79761

SHEET 45 TOTAL 79



LABEL	ITEM	QUANTITY (01/NHS/PV)					UNIT	DESCRIPTION
		NB/EB	SB/WB	MEDIAN	SR 421	TOTAL		
R1	202	87.5	500.0	175	400	1,162.5	FT	GUARDRAIL REMOVED
R4	202			400		400	FT	GUARDRAIL REMOVED, BARRIER DESIGN
R8	202		1			1	EACH	ANCHOR ASSEMBLY REMOVED, TYPE A
R9	202	1	3		4	8	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E
R10	202		1	4		5	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T
R24	202	1	1		4	6	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED
R27	202			4		4	EACH	IMPACT ATTENUATOR REMOVED
E2-A	203	5	5	10	5	25	CY	EMBANKMENT, AS PER PLAN
E3	209	1.375	6.750	7.510	6.000	21.635	STA	RESHAPING UNDER GUARDRAIL
G13	606	87.5	187.5	25	400	700	FT	GUARDRAIL, TYPE MGS
G14	606		312.5			312.5	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS
G15	606			150		150	FT	GUARDRAIL, TYPE MGS HALF POST SPACING
G22	606			400		400	FT	GUARDRAIL, BARRIER DESIGN, TYPE MGS
A9	606	1	3		4	8	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016
A13	606		2	4		6	EACH	ANCHOR ASSEMBLY, MGS TYPE T
B18	606	1	1		4	6	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1
I2	606			4		4	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)
M4	626	2	7	8	7	24	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL

ALL QUANTITIES CARRIED TO GUARDRAIL SUB-SUMMARY

HORIZONTAL SCALE IN FEET
0 12.5 25 50

GUARDRAIL DETAILS
MED-42-6.86 (CONT'D)

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER JLL
REVIEWER ACM 6-24-21
PROJECT ID 79761
SHEET 46 TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Sheet I3 PAPERSIZE: 17x11(in.) DATE: 11/1/2021 TIME: 4:55:52 PM USER: ksalay
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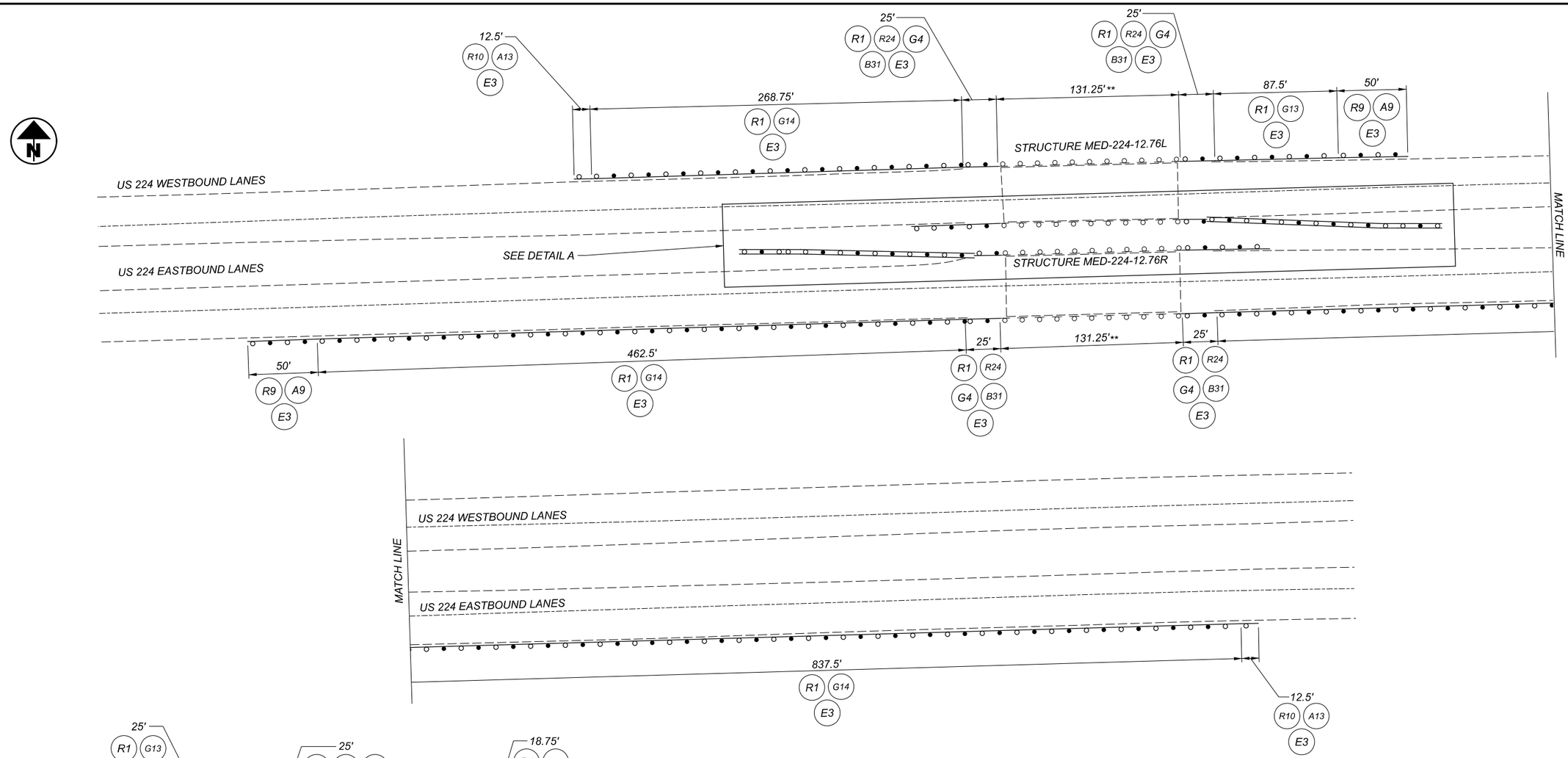
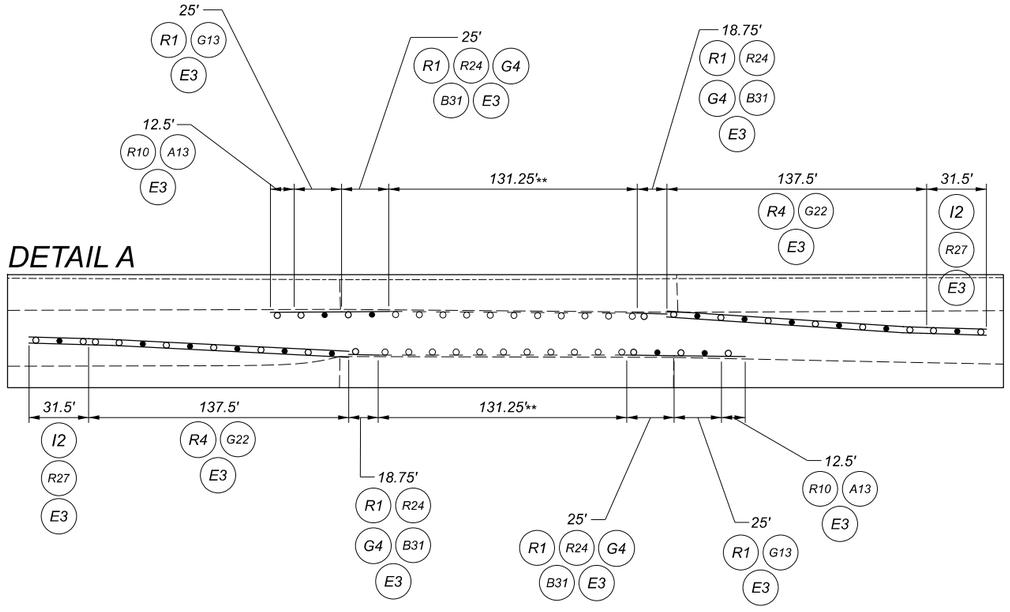




NOTES:
**DEEP BEAM BRIDGE RAIL WITH TUBULAR BACKUP

LABEL	ITEM	QUANTITY (01/NHS/PV)				UNIT	DESCRIPTION
		EB	WB	MEDIAN	TOTAL		
R1	202	1,350	406.25	137.5	1,893.75	FT	GUARDRAIL REMOVED
R4	202			275	275	FT	GUARDRAIL REMOVED, BARRIER DESIGN
R9	202	1	1		2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E
R10	202	1	1	2	4	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T
R24	202	2	2	4	8	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED
R27	202			2	2	EACH	IMPACT ATTENUATOR REMOVED
E2-A	203	15	5	5	25	CY	EMBANKMENT, AS PER PLAN
E3	209	14.125	4.688	5.005	23.818	STA	RESHAPING UNDER GUARDRAIL
G4	606	50	50	87.5	187.5	FT	GUARDRAIL, TYPE 5
G13	606		87.5	50	137.5	FT	GUARDRAIL, TYPE MGS
G14	606	1,300	268.75		1,568.75	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS
G22	606			275	275	FT	GUARDRAIL, BARRIER DESIGN, TYPE MGS
A9	606	1	1		2	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016
A13	606	1	1	2	4	EACH	ANCHOR ASSEMBLY, MGS TYPE T
B31	606	2	2	4	8	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 4
I2	606			2	2	EACH	IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL)
M4	626	15	5	6	26	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL

ALL QUANTITIES CARRIED TO GUARDRAIL SUB-SUMMARY

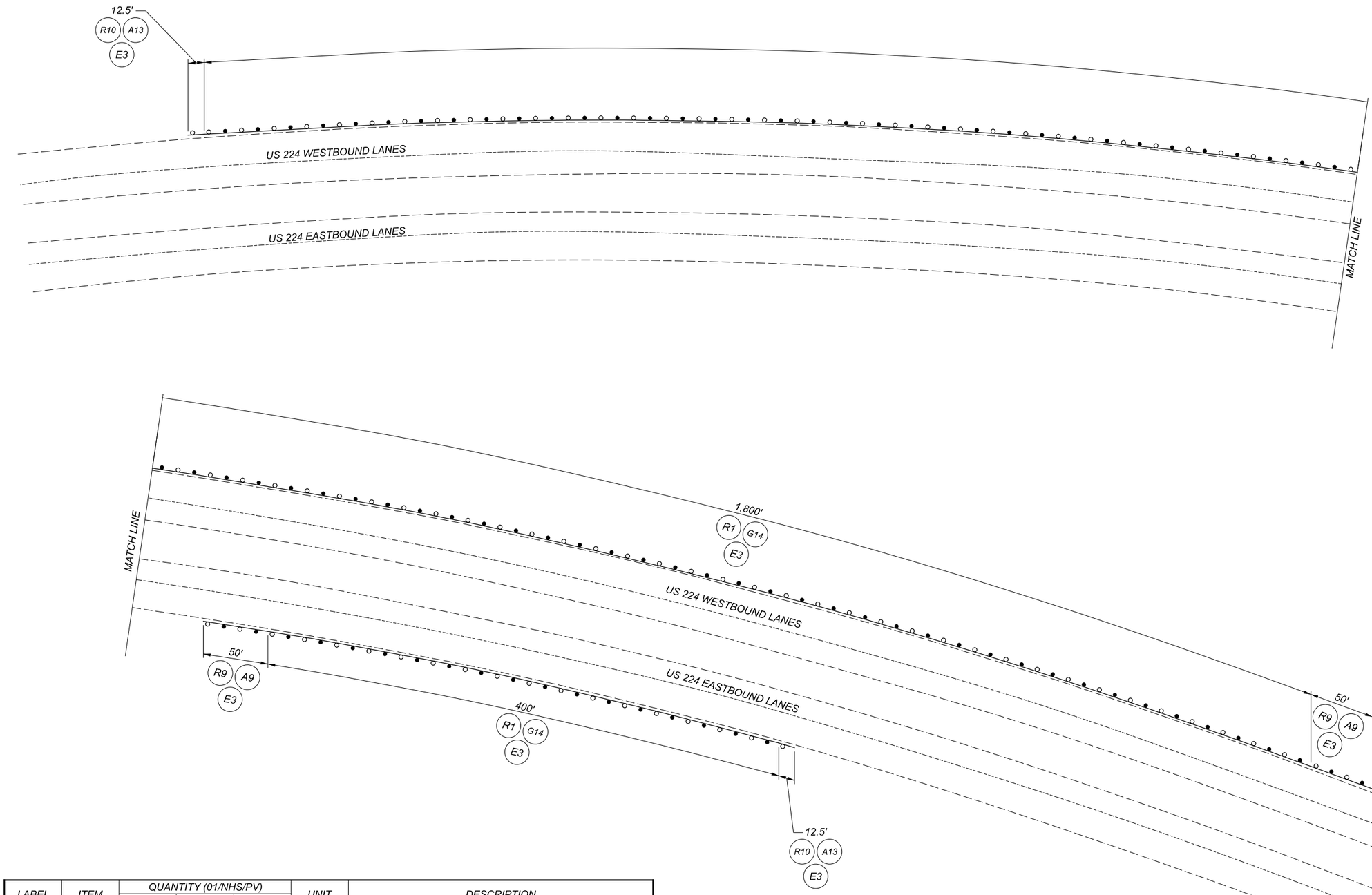
HORIZONTAL SCALE IN FEET
0 20 40 80

GUARDRAIL DETAILS
MED-224-12.76

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER JLL
REVIEWER ACM 6-24-21
PROJECT ID 79761
SHEET 48 TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Sheet 15 PAPERSIZE: 17x11(in.) DATE: 11/1/2021 TIME: 4:56:58 PM USER: kalay
pw:\\ohiodot-pw.bentley.com:ohiodot-pw-02\Documents\01Active Projects\District 03\Medina\79761\400-Engineering\Roadway\Sheets\79761_GR001.dgn



LABEL	ITEM	QUANTITY (01/NHS/PV)			UNIT	DESCRIPTION
		EB	WB	TOTAL		
R1	202	400	1,800	2,200	FT	GUARDRAIL REMOVED
R9	202	1	1	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E
R10	202	1	1	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T
E2-A	203	5	20	25	CY	EMBANKMENT, AS PER PLAN
E3	209	4.625	18.625	23.250	STA	RESHAPING UNDER GUARDRAIL
G14	606	400	1,800	2,200	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS
A9	606	1	1	2	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016
A13	606	1	1	2	EACH	ANCHOR ASSEMBLY, MGS TYPE T
M4	626	5	19	24	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL

ALL QUANTITIES CARRIED TO GUARDRAIL SUB-SUMMARY

HORIZONTAL SCALE IN FEET
0 20 40 80

GUARDRAIL DETAILS
MED-224-14.43

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
ACM 6-24-21

PROJECT ID
79761

SHEET 49 TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Sheet 16 PAPERSIZE: 17x11(in.) DATE: 11/1/2021 TIME: 4:57:46 PM USER: kalay
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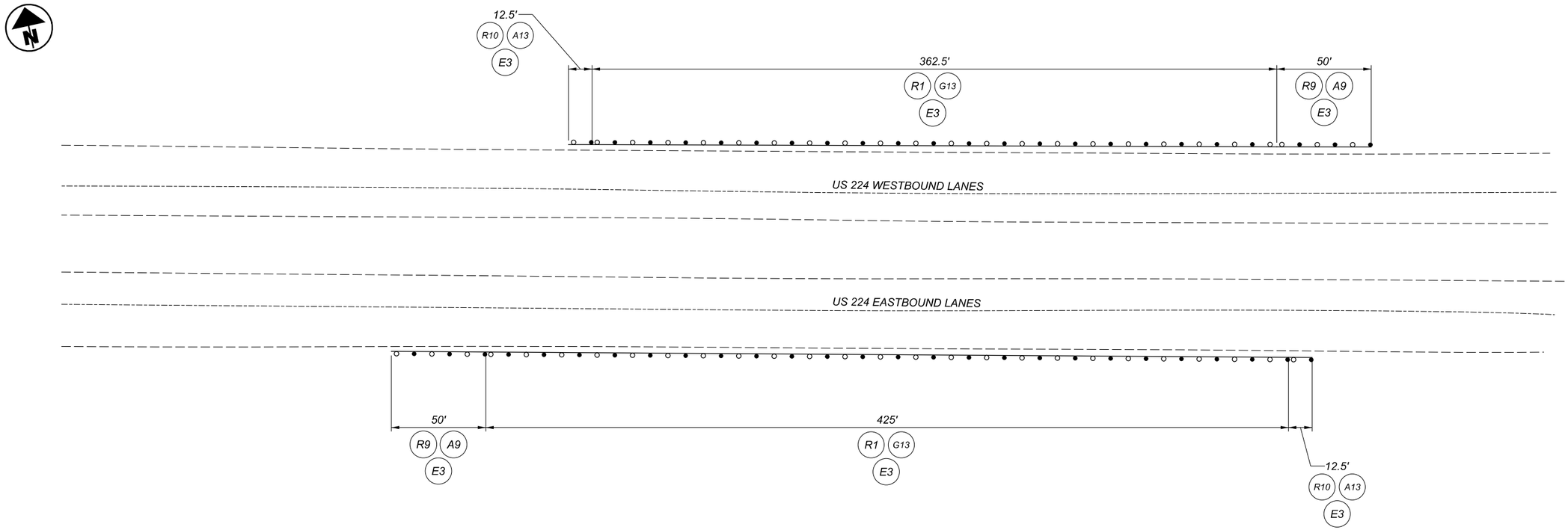

LABEL	ITEM	QUANTITY (01/NHS/PV)			UNIT	DESCRIPTION
		EB	WB	TOTAL		
R1	202	425	362.5	787.5	FT	GUARDRAIL REMOVED
R9	202	1	1	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E
R10	202	1	1	2	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T
E2-A	203	5	5	10	CY	EMBANKMENT, AS PER PLAN
E3	209	4.875	4.250	9.125	STA	RESHAPING UNDER GUARDRAIL
G13	606	425	362.5	787.5	FT	GUARDRAIL, TYPE MGS
A9	606	1	1	2	EACH	ANCHOR ASSEMBLY, MGS TYPE E, MASH 2016
A13	606	1	1	2	EACH	ANCHOR ASSEMBLY, MGS TYPE T
M4	626	5	5	10	EACH	BARRIER REFLECTOR, TYPE 2, BIDIRECTIONAL

ALL QUANTITIES CARRIED TO GUARDRAIL SUB-SUMMARY

HORIZONTAL SCALE IN FEET
0 15 30 60

GUARDRAIL DETAILS
MED-224-14.70

DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO

DESIGNER
JLL

REVIEWER
KRB 11-1-2021

PROJECT ID
79761

SHEET 49A | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)

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ITEM	EXTENSION	QUANTITY													TOTAL	UNIT	DESCRIPTION	REFERENCE SHEET
		MED-42-2.61	MED-42-3.10		MED-42-4.60		MED-42-5.39		MED-42-5.89		MED-42-7.14	MED-83-4.36	MED-224-12.76					
			LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT			LEFT	RIGHT				
202	11301				1	1					12			8	22	CY	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	54
202	32000		52	52											104	FT	CURB REMOVED	
202	32600		100	100								76			276	FT	GUTTER REMOVED	
202	98200		256	256											512	FT	REMOVAL, MISC.: DECK OVERHANG	54
202	98200		66	90	94	94	80	80	94	141			80	88	907	FT	REMOVAL, MISC.: JOINT SEALER	54
509	10001		829	829											1,658	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN	55
509	20001		100	100											200	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCEMENT STEEL, AS PER PLAN	54
511	21521										7			2	9	CY	CLASS QC2 CONCRETE, SUPERSTRUCTURE, AS PER PLAN (RECONSTRUCTION)	55
511	45711										5			3	8	CY	CLASS QC1 CONCRETE, ABUTMENT, AS PER PLAN (RECONSTRUCTION)	55
511	46010				1	1								3	5	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING	
511	81100		256	256											512	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG	55
512	10100		138	138							8				284	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
512	10300	32	28	28	26	26	800	800	605	605			28	40	3,018	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN	
513	21000										10				10	EACH	TRIMMING OF BEAM END	
516	10000									47					47	FT	PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL	
516	11211										104			44	148	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN	55
516	31000		66	90	94	94	80	80	94	94	72		80	88	932	FT	JOINT SEALER	
516	45305	5	4	3					2	2	4		1	5	26	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	55
516	47001	LS	LS	LS					LS	LS	LS		LS	LS	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	55
517	75600	300			238	238	425	425	250	250			262.5	262.5	2,651	FT	DEEP BEAM BRIDGE RETROFIT RAILING	
517	76300	300			238	238	425	425	250	250			262.5	262.5	2,651	FT	RAILING, MISC.: DEEP BEAM RAILING PANELS	55
SPECIAL	519E00100		240	240											480	SF	COMPOSITE FIBER WRAP SYSTEM	55
519	11100		33	38	6	24	28	10		3	141	12	21		316	SF	PATCHING CONCRETE STRUCTURE	
601	21060			18											18	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	
601	27000		25	25								21			71	CY	DUMPED ROCK FILL, TYPE C	
848	10001	709	474	644	574	574							558	858	4,391	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (VARIABLE THICKNESS)	55
848	20000	709	474	644	574	574							558	858	4,391	SY	SURFACE PREPARATION USING HYDRODEMOLITION	
848	30001	22	9	13	11	11							17	27	110	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	55
848	50000	40	27	36	32	32							31	48	246	SY	HAND CHIPPING	
848	50100	LS	LS	LS	LS	LS							LS	LS	LS		TEST SLAB	
848	50200		2	4	12	8							2	5	33	CY	FULL DEPTH REPAIR	
848	50320	709	474	644	574	574							558	858	4,391	SY	EXISTING CONCRETE OVERLAY REMOVED (VARIABLE THICKNESS)	
848	50340	398	266	361	322	322							313	481	2,463	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY	
SPECIAL	519E12510		12		2	4	18	9					3	7	55	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B	55

STRUCTURE SUMMARY
STRUCTURE SUMMARY FOR ALL STRUCTURES ON THIS PROJECT

SFN
VARIOUS

DESIGN AGENCY
DISTRICT 3

ENGINEERING TEAM TWO

DESIGNER	CHECKER
JLL	KRB

REVIEWER
KAK 7-6-21

PROJECT ID
79761

SUBSET	TOTAL
1	1

SHEET	TOTAL
56	79

MED-42-1.89/MED-224-(6.25)(10.45)

MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 11/8/2021 TIME: 12:07:25 PM USER: ksalay
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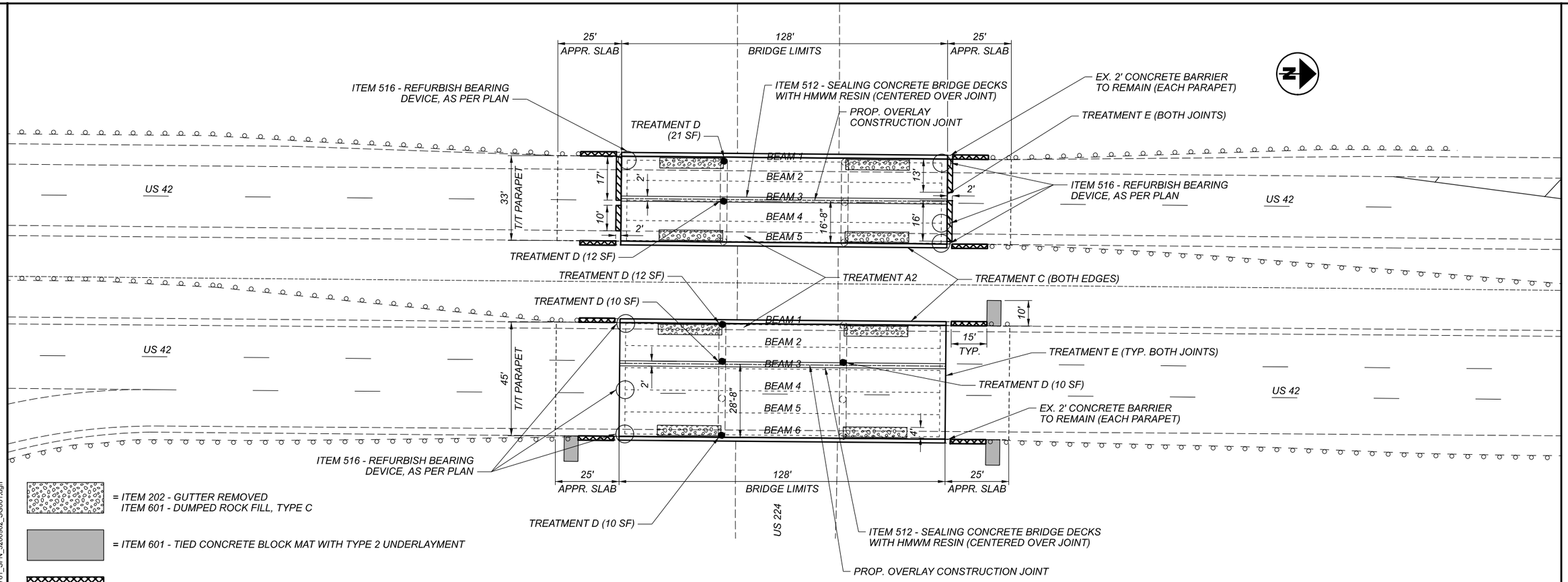

= *ITEM 202 - GUTTER REMOVED*
ITEM 601 - DUMPED ROCK FILL, TYPE C

= *ITEM 601 - TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT*

= *ITEM 622 - CONCRETE BARRIER END SECTION, TYPE D*

= *ITEM SPECIAL - PATCHING CONCRETE BRIDGE DECK, TYPE B*

ITEM	MED-42-3.10 L	MED-42-3.10 R	TOTAL QUANTITY	UNIT	DESCRIPTION
202	52	52	104	FT	CURB REMOVED
202	100	100	200	FT	GUTTER REMOVED
202	256	256	512	FT	REMOVAL, MISC.: DECK OVERHANG
202	66	90	156	FT	REMOVAL, MISC.: JOINT SEALER
509	829	829	1,658	LB	EPOXY COATED REINFORCING STEEL, AS PER PLAN
509	100	100	200	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCEMENT STEEL, AS PER PLAN
511	256	256	512	FT	CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG
512	138	138	276	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)
512	28	28	57	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN
516	66	90	156	FT	JOINT SEALER
516	4	3	7	EACH	REFURBISH BEARING DEVICE, AS PER PLAN
516	LS	LS	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN
SPECIAL	240	240	480	SF	COMPOSITE FIBER WRAP SYSTEM
519	33	38	71	SF	PATCHING CONCRETE STRUCTURE
601		18	18	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT
601	25	25	50	CY	DUMPED ROCK FILL, TYPE C
848	474	644	1,118	SY	MICRO SILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (1.75" THICK)
848	474	644	1,118	SY	SURFACE PREPARATION USING HYDRODEMOLITION
848	9	13	22	CY	MICRO SILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN
848	27	36	63	SY	HAND CHIPPING
848	LS	LS	LS		TEST SLAB
848	2	4	6	CY	FULL DEPTH REPAIR
848	474	644	1,118	SY	EXISTING CONCRETE OVERLAY REMOVED (1.25" NOMINAL THICKNESS)
848	266	361	627	SY	REMOVAL OF DEBONDED OR DETERIORATED EXISTING VARIABLE THICKNESS CONCRETE OVERLAY
SPECIAL	12		12	SY	PATCHING CONCRETE BRIDGE DECK, TYPE B

ALL QUANTITIES CARRIED TO THE STRUCTURE SUMMARY

NOTES:

1.) MED-42-3.10L
REFURBISH BEARING #1 ON THE REAR ABUTMENT, AND BEARINGS #1, #4 AND #5 ON THE FORWARD ABUTMENT. JACK AND SHIM AS NECESSARY TO ALLOW ELEVATION OF EXPANSION JOINT ARMOR ON DECK SIDE TO MATCH ELEVATION OF JOINT ARMOR ON BACKWALL SIDE.

2.) MED-42-3.10R
REFURBISH BEARING #1 ON THE REAR ABUTMENT. SHIM AS NECESSARY TO ALLOW ELEVATION OF EXPANSION JOINT ARMOR ON DECK SIDE TO MATCH ELEVATION OF JOINT ARMOR ON BACKWALL SIDE.

3.) SEE SUPPLEMENTAL SPECIFICATION 848 FOR DETAILS ON THE OVERLAY PROCESS NOT SHOWN ON THIS SHEET.

4.) PERFORM ALL JOINT SEALING AFTER ALL REPAIR WORK HAS BEEN COMPLETED.

5.) USE EXTREME CARE WHEN PERFORMING ALL ITEMS THAT REQUIRE ANY REMOVAL OF THE EXISTING STRUCTURE AS TO NOT DAMAGE ANY EXISTING REINFORCING STEEL; THE REINFORCING STEEL IS TO REMAIN IN PLACE AND NOT BE REMOVED IN THE REMOVAL PROCESS. CLEAN EXPOSED REINFORCING STEEL AS PER ITEM 848 WHERE APPLICABLE AND DEEMED NECESSARY BY THE ENGINEER. SHOULD ANY REINFORCING STEEL BE DAMAGED AS A RESULT OF ANY WORK PERFORMED, REPAIR OR REPLACE THE DAMAGED AREA AS DIRECTED.

6.) ACCORDING TO CURRENT CORING DATA, THE TOP MAT OF THE EXISTING REINFORCING STEEL IS 3.25 INCHES BELOW THE CURRENT SURFACE.

7.) SEE ROADWAY SUB-SUMMARY FOR CONCRETE BARRIER END SECTION, TYPE D PAYMENT INFORMATION.

8.) PERFORM PIER COLUMN REPAIRS USING ITEM 519 - PATCHING CONCRETE STRUCTURE.

9.) ADDITIONAL QUANTITY OF 15 SQUARE YARDS (EACH STRUCTURE) OF ITEM 512 - SEALING OF CONCRETE SURFACES (EPOXY-URETHANE) HAS BEEN ADDED TO TOUCH UP DAMAGED AREAS OF THE EXISTING PARAPETS THAT HAVE PREVIOUSLY BEEN SEALED.

10.) PREPARE A SECTION 2 FEET WIDE OVER THE LENGTH OF THE BRIDGE DECK, CENTERED OVER THE PROPOSED CONSTRUCTION JOINT, AND SEAL USING ITEM 512 - SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN.

STRUCTURE DETAILS
MED-42-3.10 (L/R)
OVER US 224

SFN 5200962
SFN 5200997
DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER JLL | CHECKER KRB
REVIEWER KAK 7-6-21
PROJECT ID 79761
SUBSET 1 | TOTAL 2
SHEET 62 | TOTAL 79

MED-42-1.89/MED-42-(6.25)(10.45)

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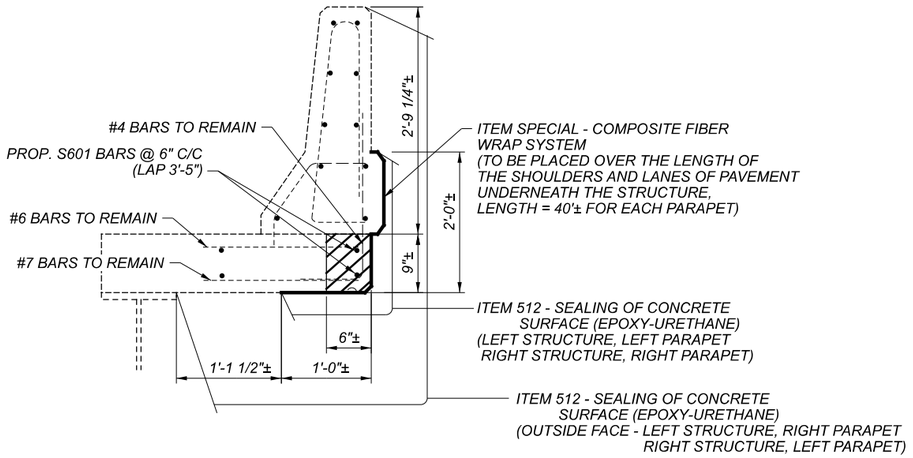
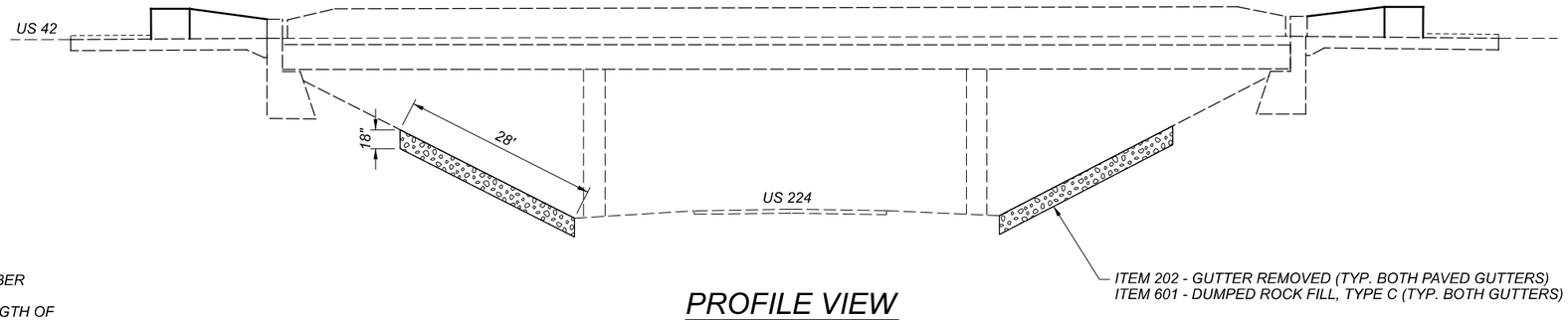
REINFORCING STEEL					
BAR MARK	NUMBER	LENGTH	TYPE	EACH SIDE	WEIGHT
S601	8	34'-6"	STR.	4	1,658



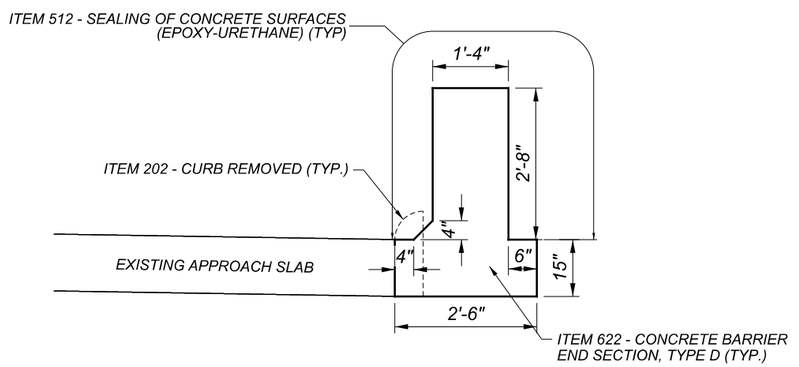
TREATMENT C - CROSS SECTION

ITEM 202 - REMOVAL MISC.: DECK OVERHANG
ITEM 509 - EPOXY COATED REINFORCING STEEL, AS PER PLAN
ITEM 509 - REINFORCING STEEL, REPLACEMENT OF EXISTING STEEL, AS PER PLAN
ITEM 511 - CONCRETE, MISC.: CLASS QC SCC CONCRETE, BRIDGE DECK, DECK OVERHANG



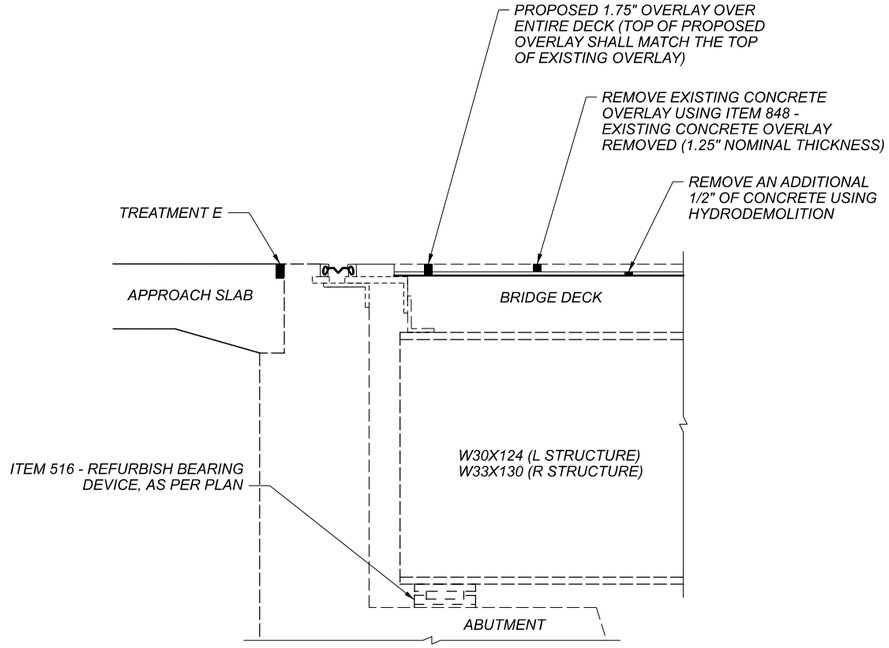
PROFILE VIEW

BOTH STRUCTURES SIMILAR
EXISTING/PROPOSED GUARDRAIL NOT SHOWN



CONCRETE BARRIER END SECTION DETAIL

REINFORCING STEEL NOT SHOWN FOR CLARITY



BEAM/JOINT DETAIL

STRUCTURE DETAILS
MED-42-3.10 (L/R)
OVER US 224

SFN 5200962
SFN 5200997
DESIGN AGENCY
DISTRICT 3
ENGINEERING TEAM TWO
DESIGNER JLL | CHECKER KRB
REVIEWER KAK 7-6-21
PROJECT ID 79761
SUBSET 2 | TOTAL 2
SHEET 63 | TOTAL 79

MED-42-1.89/MED-224-(6.25)(10.45)
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