

UTILITIES

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

WIDE OPEN WEST
3765 CORPORATE DR
COLUMBUS, OH 43231
CONTACT: STEVE CALLAHAN
PHONE: (614) 948-4636
EMAIL: steven.callahan@wowinc.com

ODOT ITS (NON-OUPS MEMBER)
1606 W BROAD ST
COLUMBUS, OH 43223
PHONE: (614) 387-4113
FAX: (614) 887-4134
EMAIL: cen.its.lab@dot.ohio.gov

COLUMBIA GAS OF OHIO
3550 JOHNNY APPLESEED COURT
COLUMBUS, OH 43231
CONTACT: ROB CALDWELL
PHONE: (614)818-2108
EMAIL: rcaldwell@nisource.com

CITY OF COLUMBUS
DPU - DIVISION OF SEWERAGE AND DRAINAGE
SEWER MAINTENANCE MANAGER
1250 FAIRWOOD AVE
COLUMBUS, OH 43206
PHONE: (614) 645-7102

AEP - DISTRIBUTION UNDERGROUND
1 RIVERSIDE PLAZA, 12TH FLOOR
COLUMBUS, OH 43215
CONTACT: PAT FEENEY
PHONE: (614) 883-6901
EMAIL: pfeeney@aep.com

CITY OF COLUMBUS
DIVISION OF POWER
3500 INDIANOLA AVE
COLUMBUS, OH 43214
PHONE: (614) 645-7627

AEP - TRANSMISSION
700 MORRISON RD
GAHANNA, OH 43230
CONTACT: JIM KING
PHONE: (614) 460-0107
EMAIL: jrking@aep.com

CITY OF COLUMBUS
DIVISION OF WATER
910 DUBLIN RD
COLUMBUS, OH 43215
PHONE: (614) 645-7788

AEP - AERIAL DISTRIBUTION
850 TECH CENTER DR
GAHANNA, OH 43230-6605
CONTACT: PAUL PAXTON
PHONE: (614) 883-6831
EMAIL: ptpaxton@aep.com

CITY OF COLUMBUS
DEPARTMENT OF TECHNOLOGY
1355 MCKINLEY AVE
BUILDING C
COLUMBUS, OH 43222
PHONE: (614) 645-7756

AT&T - OHIO
111 NORTH 4TH STREET
ROOM 802
COLUMBUS, OH 43204
CONTACT: GARY VAN ALMSICK
PHONE: (614) 223-7276
EMAIL: gv2758@att.com

CITY OF COLUMBUS
DEPARTMENT OF PUBLIC SERVICE
TRAFFIC MANAGEMENT
1820 E 17TH AVE
COLUMBUS, OH 43219
PHONE: (614) 645-7393

AT&T - OHIO
111 NORTH 4TH STREET
ROOM 802
COLUMBUS, OH 43204
CONTACT: GARY VAN ALMSICK
PHONE: (614) 223-7276
EMAIL: gv2758@att.com

CITY OF COLUMBUS
SUPPORT SERVICES DIVISION - COMMUNICATIONS
4211 GROVES RD
COLUMBUS, OH 43232
PHONE: (614) 724-7047

AT&T - OHIO
111 NORTH 4TH STREET
ROOM 802
COLUMBUS, OH 43204
CONTACT: GARY VAN ALMSICK
PHONE: (614) 223-7276
EMAIL: gv2758@att.com

CHARTER
3760 INTERCHANGE DR
COLUMBUS, OH 43204
CONTACT: RAY MAURER
PHONE: (614) 481-5262
EMAIL: ray.maurer@charter.com

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

EXISTING PLANS

EXISTING PLANS ENTITLED FRA-315-5.18 MAY BE INSPECTED IN THE ODOT DISTRICT 6 OFFICE IN DELAWARE, OH.

NOTE TO CONTRACTOR REGARDING EXISTING FIRE HYDRANT ACCESS DURING CONSTRUCTION

ACCESS FOR EMERGENCY USAGE OF ALL FIRE HYDRANTS IS REQUIRED AT ALL TIMES DURING PLAN CONSTRUCTION. AT NO TIME SHALL THE ODOT CONTRACTOR BLOCK ACCESS TO ANY FIRE HYDRANT DURING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: STATIC GNSS
MONUMENT TYPE: (B)

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD83(2011)EPOCH:2010.0000
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO STATE PLANE (SOUTH) ZONE
COMBINED SCALE FACTOR: 1.00002761
ORIGIN OF COORDINATE SYSTEM: 0,0

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET. USE THE FOLLOWING CONVERSION FACTOR: 1 METER = 3.280833333 U.S. SURVEY

PERMITS

WHEN OCCUPYING OR EXCAVATING WITHIN COLUMBUS PUBLIC RIGHT OF WAY LIMITS, THE CONTRACTOR SHALL OBTAIN AN EXCAVATION AND OCCUPANCY PERMIT FROM THE CITY OF COLUMBUS, DEPARTMENT OF PUBLIC SERVICE - PERMIT OFFICE BETWEEN THE HOURS OF 7:30 AM AND 4:00 PM MONDAY THROUGH FRIDAY. PHONE: (614) 645-7497; FAX: (614) 645-1876; EMAIL: colspemits@columbus.gov

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

ITEM 524 - DRILLED SHAFTS

THIS ITEM PERTAINS TO WALLS 4 AND 5.

FOLLOW STANDARD DRAWING NBS-1-09 AND THE DETAILS OF THESE PLANS.

PAYMENT FOR THIS ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE FOOT FOR ITEM 606 - SPECIAL - NOISE BARRIER UNLESS OTHERWISE NOTED, AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.



ITEM 606 - SPECIAL - NOISE BARRIER

THIS ITEM WILL BE USED TO INSTALL REFLECTIVE CONCRETE NOISE PANELS IN WALLS 4 AND 5. SEE SHEET 54 FOR COLOR, TEXTURE, AND LOCATION OF INSTALLATION.

FOLLOW STANDARD DRAWING NBS-1-09 AND THE DETAILS OF THESE PLANS.

PAYMENT FOR ALL OF THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE FOOT FOR ITEM 606 - SPECIAL NOISE BARRIER UNLESS OTHERWISE NOTED, AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE WORK.

NOTE TO CONTRACTOR REGARDING EXTRA CARE NOT TO DAMAGE UTILITY LINES

THE CONTRACTOR IS TO USE EXTRA CARE NOT TO DAMAGE UTILITY LINES THAT ARE TO REMAIN AND NOTED ON THE PLANS AS DO NOT DISTURB (DND). IF DAMAGE OCCURS TO THESE LINES DUE TO THE CONTRACTOR'S NEGLIGENCE OR MISHANDLING, THE DAMAGED SECTIONS ARE TO BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE, AS DIRECTED BY THE ENGINEER. REFER TO PAGES 31-38 FOR LOCATIONS AND COVER DEPTHS TO THE TOP OF THE NOTED UTILITY LINES.

STORM SEWER CONTINGENCY QUANTITIES

THE BELOW ESTIMATED CONTINGENCY QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER, IN THE EVENT THAT THE PRE-CONSTRUCTION VIDEO (SEE ITEM 611 - CONDUIT, MISC.: STORM SEWER PROTECTION) FINDS DAMAGE TO THE EXISTING CONDUITS AT THE FOLLOWING LOCATIONS:

- o STA. 603+78 TO STA. 604+48
- o STA. 607+27
- o STA. 610+61 TO STA. 611+20

ITEM 611 - 24" CONDUIT, TYPE B, 706.02 15 LF
ITEM 611 - 18" CONDUIT, TYPE B, 706.02 40 LF
ITEM 611 - 12" CONDUIT, TYPE B, 706.02 30 LF

ITEM 611 - CONDUIT, MISC.: STORM SEWER PROTECTION

THE CONTRACTOR SHALL BE REQUIRED TO VIDEO INSPECT THE FOLLOWING STORM SEWER CONDUITS BOTH PRE AND POST CONSTRUCTION:

- o STA. 603+78 TO 604+48 (ESTIMATED 70 FEET OF EX 12")
- o STA. 607+27 (ESTIMATED 30 FEET OF EX. 15")
- o STA. 610+61 TO STA 611+20 (ESTIMATED 40 FEET OF EX. 18" AND 15 FEET OF EX. 24")

THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER AT LEAST 7 DAYS PRIOR TO ANY VIDEO WORK. THE PRE-CONSTRUCTION VIDEO SHALL BE PERFORMED PRIOR TO ORDERING ANY MATERIALS NECESSARY TO CONSTRUCT THE PROPOSED NOISE BARRIER. ONE (1) COPY OF THE VIDEO INSPECTION SHALL BE PROVIDED TO THE PROJECT ENGINEER FOR REVIEW. IF DAMAGE IS FOUND IN THE PRE-CONSTRUCTION VIDEO, THE CONTRACTOR SHALL DOCUMENT THE DAMAGE AND PROVIDE DOCUMENTATION TO THE PROJECT ENGINEER. IF DAMAGE IS FOUND IN THE POST-CONSTRUCTION VIDEO, THEN REPAIRS TO THE SATISFACTION OF THE DEPARTMENT SHALL BE PERFORMED BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.

ALL LABOR, MATERIAL, AND INCIDENTALS FOR THE ABOVE WORK SHALL BE PAID FOR BY LUMP SUM, ITEM 611 - CONDUIT, MISC.: STORM SEWER PROTECTION

ITEM 638 WATER WORK, MISC.: CITY OF COLUMBUS DIVISION OF WATER 42" WATERLINE PROTECTION

THE CONTRACTOR SHALL BE REQUIRED TO PROTECT THE 42" WATERLINE FACILITY LOCATED WITHIN THE PROJECT LIMITS. FURTHERMORE, SPECIAL CARE MUST BE TAKEN TO ASSURE NO HARM TO THE 42" WATERLINE INCLUDING THE FOLLOWING PROVISIONS:

1.) PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL BE REQUIRED TO CONFIRM THE WATERLINE LOCATION BETWEEN THE FOLLOWING LIMITS:

- o WALL 4 STA. 403+00 TO 409+76
- o WALL 4 STA. 406+44.20 (NEXT TO PROP. DMS SIGN FOUNDATION)
- o WALL 5 STA. 504+56 TO STA 505+00
- o WALL 6 ENTIRE LIMITS

AIRVAC METHODS SHALL BE REQUIRED (SUE QUALITY LEVEL A) TO CONFIRM THE UTILITY LOCATION. THE SUE COMPANY UTILIZED BY THE CONTRACTOR SHALL BE REQUIRED TO BE PRE-QUALIFIED WITH THE OHIO DEPARTMENT OF TRANSPORTATION.

2.) PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL PROVIDE THE SUE LOCATE CONFIRMATION DATA TO ODOT AND THE COC DIVISION OF WATER A MINIMUM OF 21 DAYS PRIOR TO COMMENCING WORK.

3.) ALL WORK ACTIVITIES WITHIN 20 FEET HORIZONTAL DISTANCE TO THE WATERLINE'S CLOSEST OUTSIDE DIAMETER SHALL BE COORDINATED WITH ODOT AND THE CITY OF COLUMBUS DIVISION OF WATER 21 DAYS PRIOR TO COMMENCING WORK.

4.) THE CONTRACTOR SHALL PROHIBIT CONSTRUCTION EQUIPMENT NECESSARY TO REMOVE THE DMS STRUCTURE AND FOUNDATION; CONSTRUCT THE NEW DMS STRUCTURE; BUILD NOISE WALLS 4, 5, 6; AND BUILD WALL 6 FROM OPERATING WITHIN 3 FEET HORIZONTAL DISTANCE TO THE WATERLINE'S CLOSEST OUTSIDE DIAMETER. IN ADDITION, CONTRACTOR ACCESS TO PERFORM THESE WORK TASKS SHALL BE LIMITED TO SR-315.

ALL LABOR, MATERIAL AND INCIDENTALS FOR THE ABOVE WORK SHALL BE PAID FOR BY LUMP SUM, ITEM 638, WATER WORK, MISC.: CITY OF COLUMBUS DIVISION OF WATER 42" WATERLINE PROTECTION.

ITEM 611 - CONDUIT, MISC.: EXISTING 36" SANITARY SEWER LINE LOCATES

THE CONTRACTOR SHALL PERFORM HORIZONTAL AND VERTICAL LINE LOCATE OF THE EXISTING 36" SANITARY LINES LOCATED AT APPROXIMATE STATIONS 402+26 (SEE PAGE 31) AND 510+31 (SEE PAGE 37). THE LOCATES SHALL BE PERFORMED AT THE LOCATION THE EXISTING SANITARY LINE(S) CROSS THE PROPOSED NOISE WALL. AIRVAC METHODS SHALL BE REQUIRED (SUE QUALITY LEVEL A) TO CONFIRM THE UTILITY LOCATION. THE SUE COMPANY UTILIZED BY THE CONTRACTOR SHALL BE REQUIRED TO BE PRE-QUALIFIED WITH THE OHIO DEPARTMENT OF TRANSPORTATION. THIS WORK SHALL BE PERFORMED PRIOR TO ORDERING ANY MATERIALS NECESSARY TO CONSTRUCT THE PROPOSED NOISE BARRIER.

PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 611, CONDUIT, MISC.: EXISTING 36" SANITARY SEWER LINE LOCATES.

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RESTORATION OF EXISTING PAVEMENT MARKINGS

CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED AFTER THE COMPLETION OF PHASE 1. PAYMENT FOR REMOVAL OF CONFLICTING EXISTING PAVEMENT MARKINGS SHALL BE PAID PER ITEM 614 MAINTAINING TRAFFIC. PAVEMENT MARKINGS SHALL BE RESTORED TO EXISTING CONDITIONS AFTER THE COMPLETION OF PHASE 2. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 644 - EDGE LINE, 6" (WHITE) 0.90 MILE
 ITEM 644 - EDGE LINE, 6" (YELLOW) 0.94 MILE
 ITEM 644 - LANE LINE, 6" 2.06 MILE
 ITEM 644 - CHANNELIZING LINE, 12" 589 FT
 ITEM 644 - DOTTED LINE, 12" 840 FT

ITEM 646 - EDGE LINE, 6" (WHITE) 0.03 MILE
 ITEM 646 - EDGE LINE, 6" (YELLOW) 0.03 MILE
 ITEM 646 - LANE LINE, 6" 0.06 MILE
 ITEM 646 - DOTTED LINE, 12" 150 FT

**ITEM 621, RPM REFLECTOR, AS PER PLAN
 ITEM 621, RAISED PAVEMENT MARKER REMOVED, AS PER PLAN**

EXISTING RAISED PAVEMENT MARKER REFLECTORS ASSOCIATED WITH CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED AFTER THE COMPLETION OF PHASE 1. EMBEDDED METAL HOUSINGS SHALL REMAIN IN PLACE DURING PHASE 2. NEW RAISED PAVEMENT MARKER REFLECTORS SHALL BE REPLACED IN THE EXISTING EMBEDDED METAL HOUSINGS FOLLOWING THE APPLICATION OF PERMANENT PAVEMENT MARKINGS AFTER THE COMPLETION OF PHASE 2. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 621 - RPM REFLECTOR, AS PER PLAN 115 EACH
 ITEM 621 - RAISED PAVEMENT MARKER REMOVED, AS PER PLAN 115 EACH

ITEM 614, WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN

WORK ZONE RAISED PAVEMENT MARKERS, AS PER PLAN, AND THEIR INSTALLATION SHALL CONFORM TO C&M 614 OR C&M 621 AS SPECIFIED HEREIN.

RAISED PAVEMENT MARKERS IN USE DURING THE SNOW-PLOWING SEASON SHALL CONFORM TO 621.

RAISED PAVEMENT MARKERS IN USE DURING THE NON-SNOW-PLOW SEASON SHALL CONFORM TO 614.

RAISED PAVEMENT MARKERS IN WORK ZONES, INSTALLED ON PERMANENT CONCRETE SURFACES, SHALL BE ITEM 614 WORK ZONE RAISED PAVEMENT MARKERS. WZRPMS ARE INTENDED FOR USE ONLY DURING THE NON-SNOW PLOWING SEASON. WZRPMS SHALL NOT BE PROVIDED DURING THE SNOW-PLOWING SEASON. WHERE A TEMPORARY ALIGNMENT WILL REMAIN IN USE THROUGH THE WINTER ON PERMANENT CONCRETE SURFACES, THE WZRPMS SHALL BE REMOVED PRIOR TO THE BEGINNING OF THE SNOW-PLOWING SEASON AND REPLACED APPROXIMATELY APRIL 1, OR AS OTHERWISE DETERMINED BY THE ENGINEER.

THE SNOW-PLOWING SEASON SHALL RUN FROM OCTOBER 15 THROUGH APRIL 1.

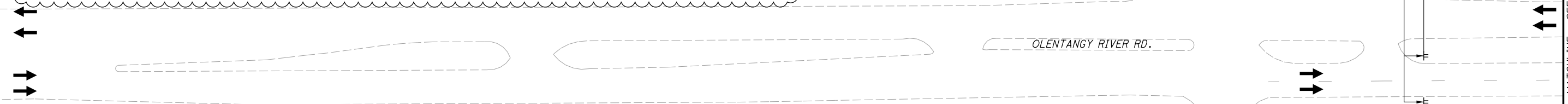
IF PROJECT DELAYS, NOT THE FAULT OF ODOT, CAUSE THE WORK TO EXTEND INTO THE SNOW-PLOWING SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WORK ZONE RAISED PAVEMENT MARKERS (WZRPMS) CONFORMING TO C&M 614, WITH RAISED PAVEMENT MARKERS CONFORMING TO 621, AS DETERMINED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

THIS ITEM SHALL INCLUDE PURCHASE, INSTALLATION AND REMOVAL OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, INCLUDING FILLING OF ANY DEPRESSIONS CREATED IN THE PAVEMENT AS PER C&M 621.08.

THE FOLLOWING BID ITEMS SHOULD BE INCLUDED IN THE PLANS:

ITEM 614 - WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN 276 EACH

ITEM 621 - RPM 276 EACH



REF. NO.	SHEET NO.	SIDE	614	614	614	614	614	614	614	614	614	614	621	622			
			INCREASED BARRIER DELINEATION	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	BARRIER REFLECTOR, TYPE 1, ONE WAY	OBJECT MARKER, ONE WAY	WORK ZONE LANE LINE, CLASS 1, 4", 740.06, TYPE 1	WORK ZONE EDGE LINE (WHITE), CLASS 1, 4", 740.06, TYPE 1	WORK ZONE EDGE LINE (YELLOW), CLASS 1, 4", 740.06, TYPE 1	WORK ZONE CHANNELIZING LINE, CLASS 1, 8", 740.06, TYPE 1	WORK ZONE DOTTED LINE, CLASS 1, 740.06, TYPE 1	RPM	PORTABLE BARRIER, UNANCHORED			
			FT	EACH	EACH	EACH	EACH	EACH	MILE	MILE	MILE	FT	FT	EACH	FT		
PB-1	20-21	RT	2580	1		52	52								2580		
WEW-1	19-23	RT								3977							
WEW-2	23-24	RT								1346							
WEY-1	19-24	RT									4982						
WEY-2	23	RT									331						
WLL-1	20-23	RT			29				3430				29				
WLL-2	20-23	RT			29				3426				29				
WCH-1	19-20	RT			46							911	46				
WCH-2	19-20	RT			46							908	46				
WCH-3	23-24	RT			63							1251	63				
WCH-4	23-24	RT			63							1253	63				
WDW-1	22-23	RT											830				
			SUBTOTAL:		SUBTOTAL:		SUBTOTAL:										
			2580	1	276	52	52	1.30	2.01	4323	830	276	2580				

06-10-2021 RESTORATION OF EXISTING PAVEMENT MARKINGS NOTE AND QUANTITIES ADDED, WZRPMS NOTE ADDED, RPM REFLECTOR AND REMOVAL NOTE AND QUANTITIES ADDED, WZRPMS PAY ITEM REVISED, ADDED ITEM 621 RPM QUANTITY FOR MOT

MAINTENANCE OF TRAFFIC PLAN - WALL 6

PHASE 2

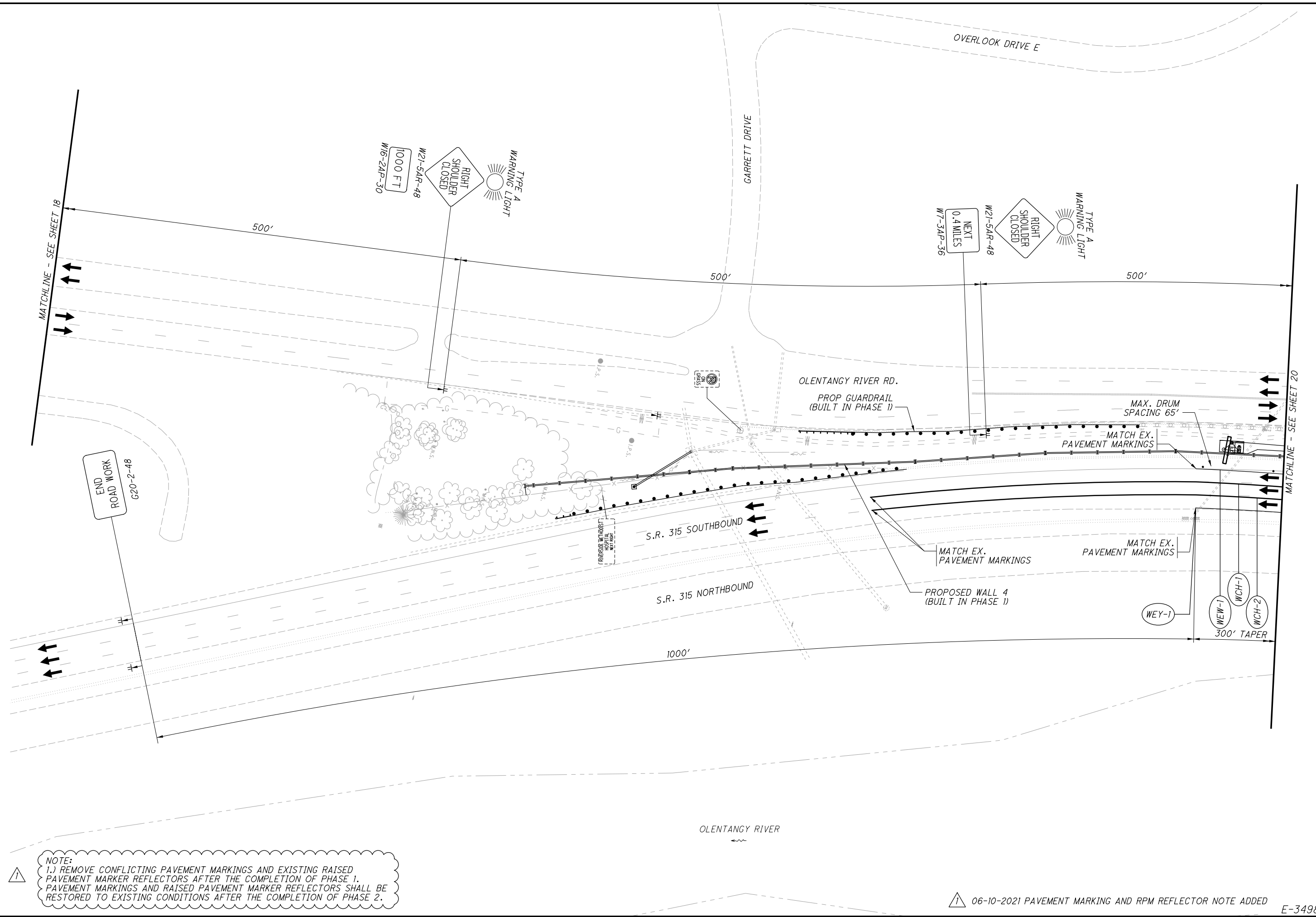
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NOISE WALLS

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NOTE:
 1.) REMOVE CONFLICTING PAVEMENT MARKINGS AND EXISTING RAISED PAVEMENT MARKER REFLECTORS AFTER THE COMPLETION OF PHASE 1. PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS SHALL BE RESTORED TO EXISTING CONDITIONS AFTER THE COMPLETION OF PHASE 2.

06-10-2021 PAVEMENT MARKING AND RPM REFLECTOR NOTE ADDED

E-3498

CALCULATED
 STC
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 JDH

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 HORIZONTAL
 SCALE IN FEET

**MAINTENANCE OF TRAFFIC PLAN - WALL 6
 PHASE 2**

**FRA-315-7.13
 NOISE WALLS**

LEGEND



WORK ZONE

NOTE:
 1.) REMOVE CONFLICTING PAVEMENT MARKINGS AND EXISTING RAISED PAVEMENT MARKER REFLECTORS AFTER THE COMPLETION OF PHASE 1. PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS SHALL BE RESTORED TO EXISTING CONDITIONS AFTER THE COMPLETION OF PHASE 2.



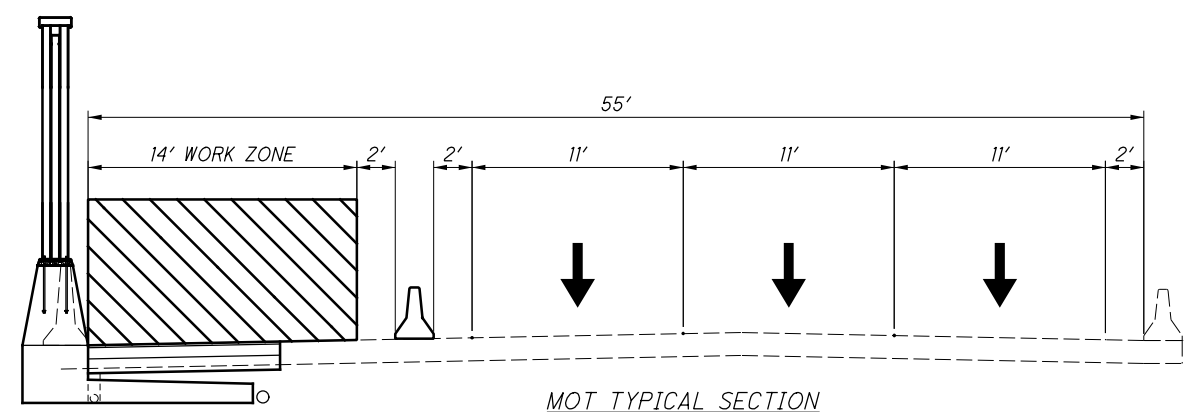
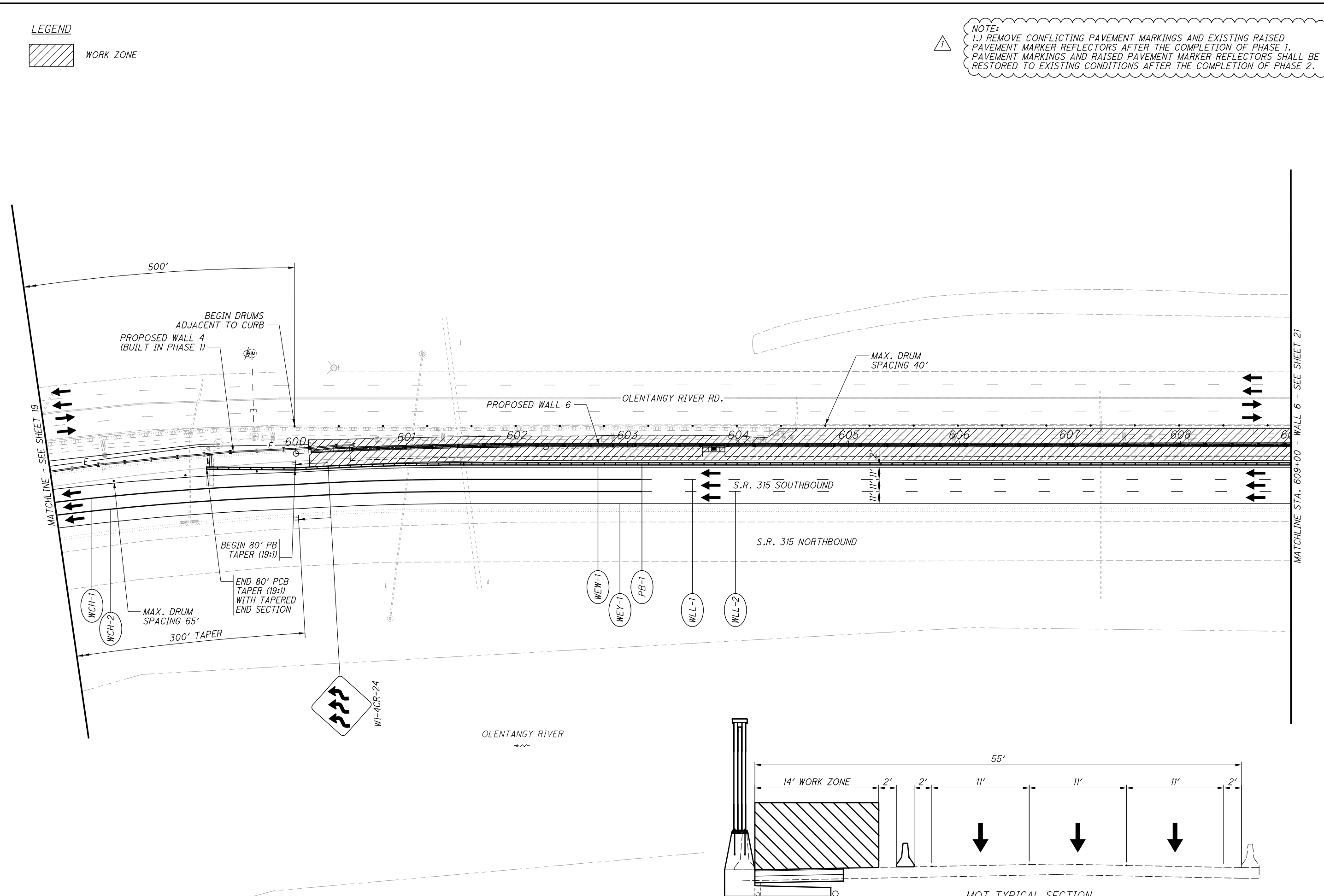
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MAINTENANCE OF TRAFFIC PLAN - WALL 6
 PHASE 2

FRA-315-7.13
 NOISE WALLS

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MOT TYPICAL SECTION
 SR-315 SOUTHBOUND
 STA. 600+10 TO STA. 615+26.11

06-10-2021 PAVEMENT MARKING AND RPM REFLECTOR NOTE ADDED

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MATCHLINE STA. 609+00 - WALL 6 - SEE SHEET 20

MATCHLINE - SEE SHEET 22

NOTE:
1.) REMOVE CONFLICTING PAVEMENT MARKINGS AND EXISTING RAISED PAVEMENT MARKER REFLECTORS AFTER THE COMPLETION OF PHASE 1. PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS SHALL BE RESTORED TO EXISTING CONDITIONS AFTER THE COMPLETION OF PHASE 2.

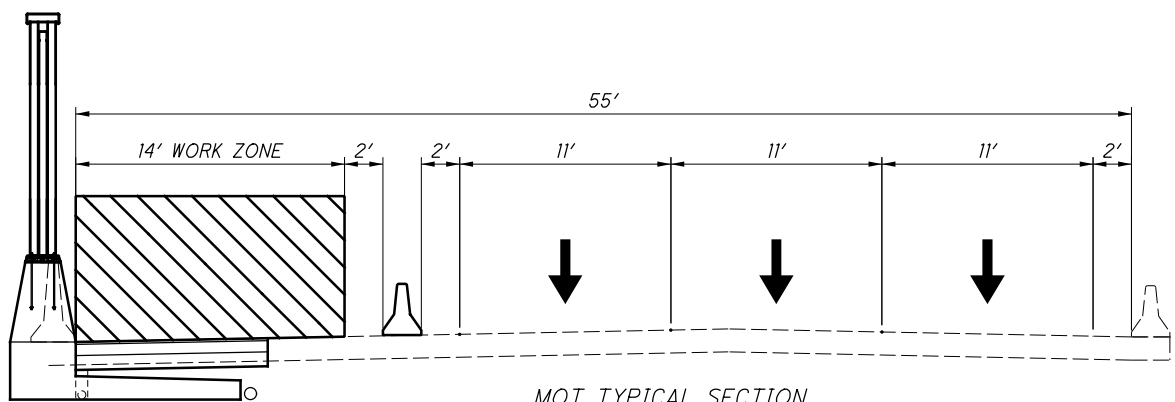
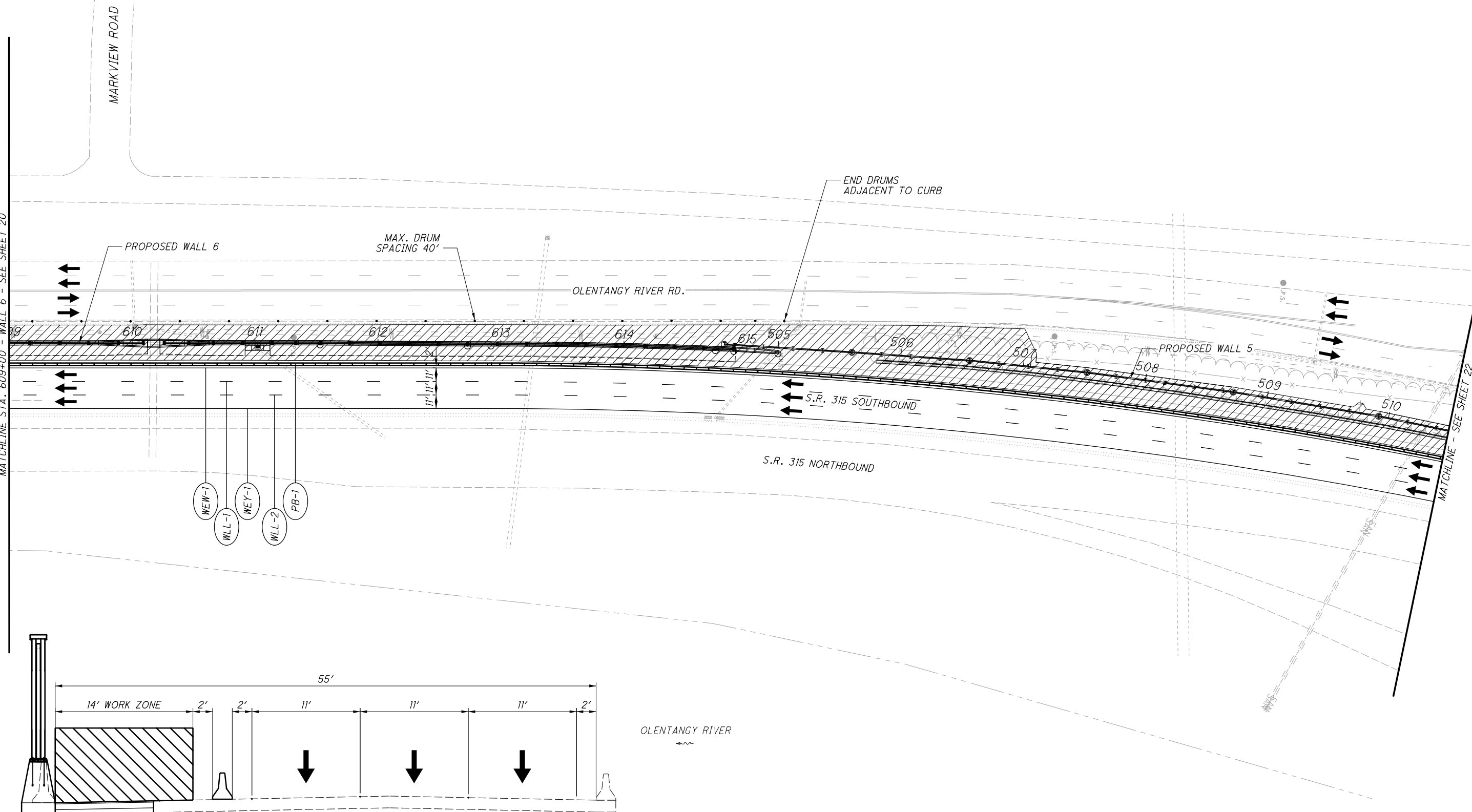
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MAINTENANCE OF TRAFFIC PLAN - WALL 6 PHASE 2

FRA-315-7.13 NOISE WALLS



MOT TYPICAL SECTION
SR-315 SOUTHBOUND
STA. 600+10 TO STA. 615+26.11

LEGEND

WORK ZONE

06-10-2021 PAVEMENT MARKING AND RPM REFLECTOR NOTE ADDED

NOTE:
 1.) REMOVE CONFLICTING PAVEMENT MARKINGS AND EXISTING RAISED PAVEMENT MARKER REFLECTORS AFTER THE COMPLETION OF PHASE 1. PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS SHALL BE RESTORED TO EXISTING CONDITIONS AFTER THE COMPLETION OF PHASE 2.

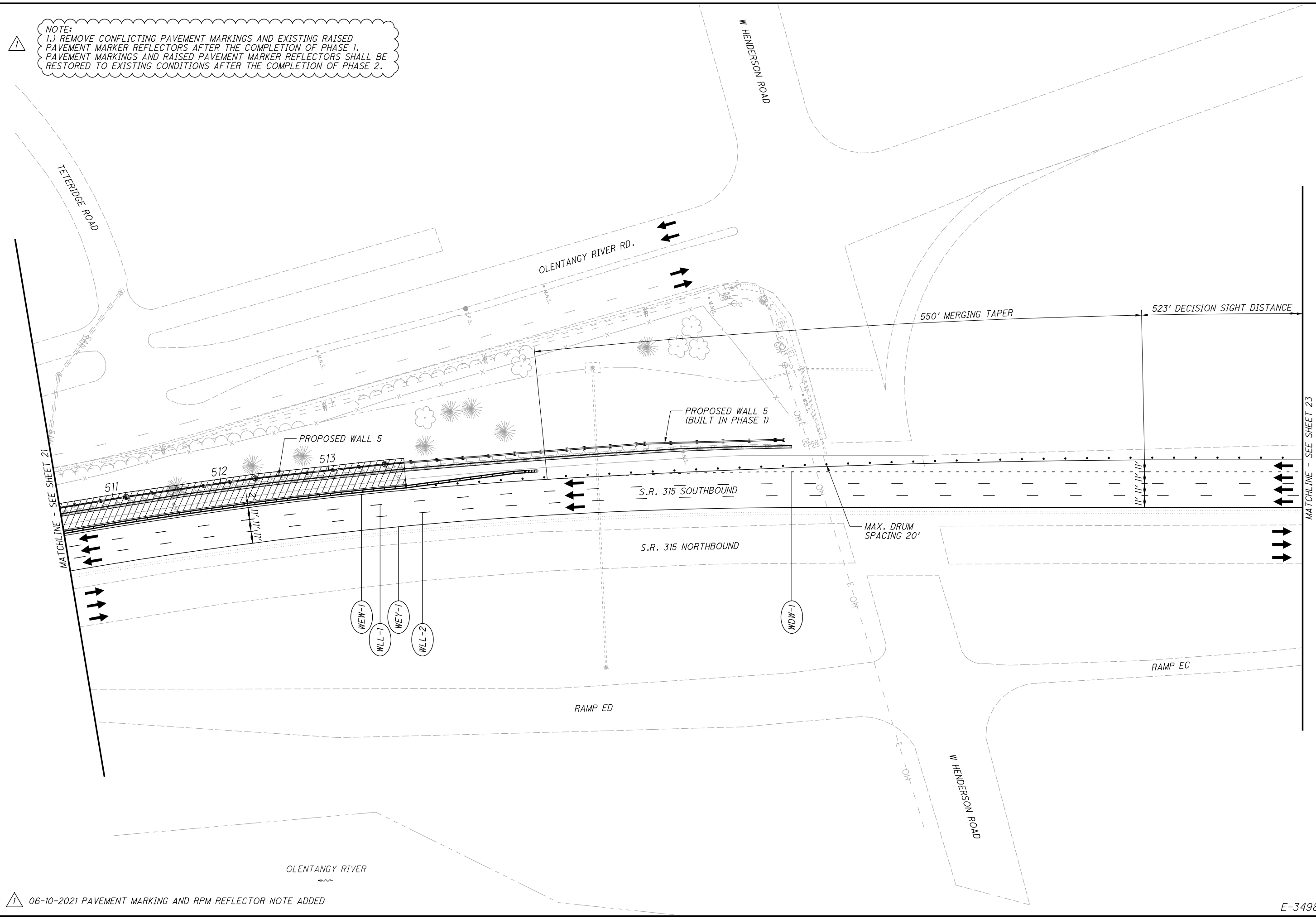
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**MAINTENANCE OF TRAFFIC PLAN - WALL 6
 PHASE 2**

**FRA-315-7.13
 NOISE WALLS**

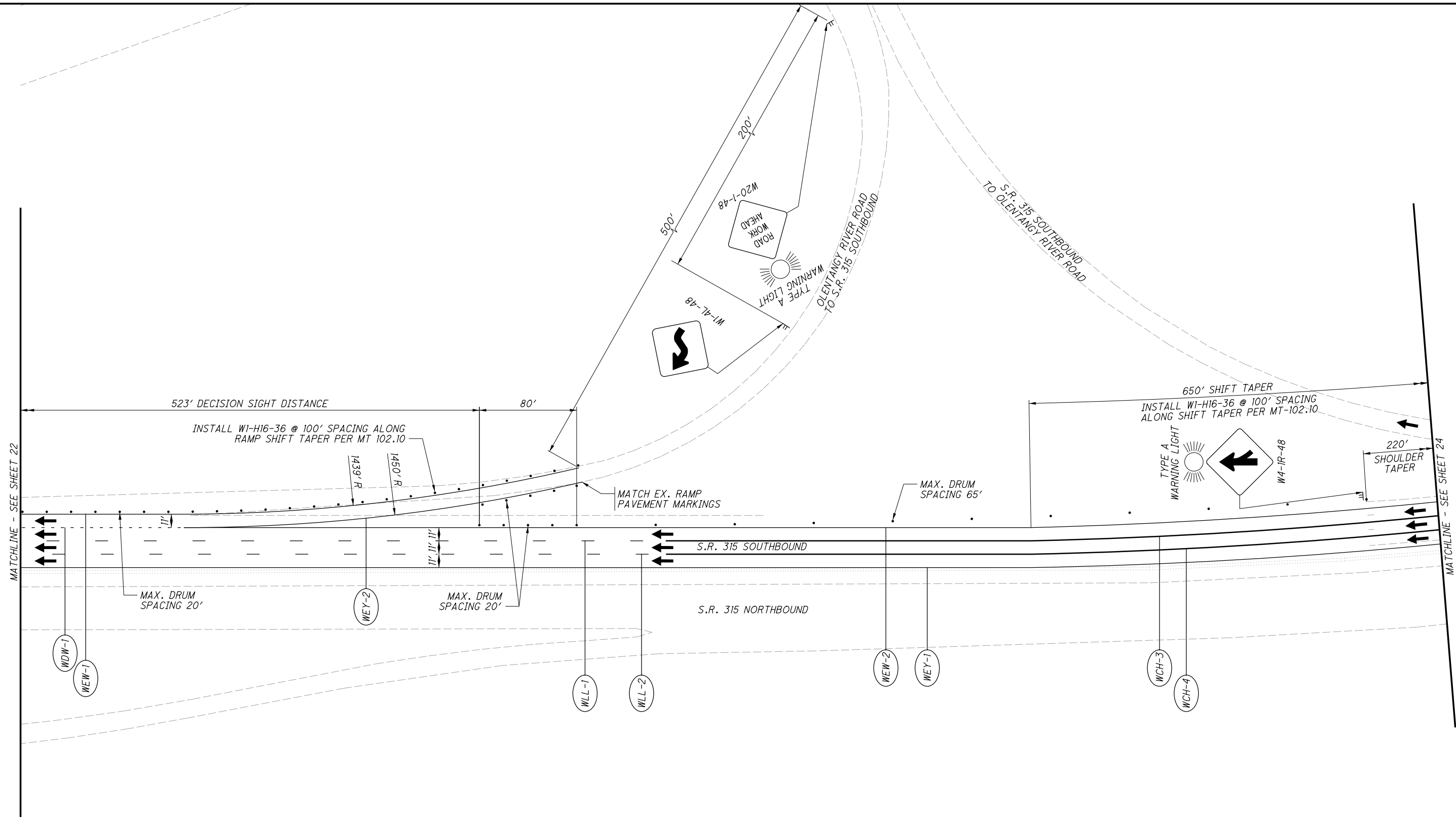
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06-10-2021 PAVEMENT MARKING AND RPM REFLECTOR NOTE ADDED

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 HORIZONTAL
 SCALE IN FEET

MAINTENANCE OF TRAFFIC PLAN - WALL 6
PHASE 2

FRA-315-7.13
NOISE WALLS

NOTE:
 1.) REMOVE CONFLICTING PAVEMENT MARKINGS AND EXISTING RAISED PAVEMENT MARKER REFLECTORS AFTER THE COMPLETION OF PHASE 1. PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS SHALL BE RESTORED TO EXISTING CONDITIONS AFTER THE COMPLETION OF PHASE 2.

06-10-2021 PAVEMENT MARKING AND RPM REFLECTOR NOTE ADDED

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NOTE:
1.) REMOVE CONFLICTING PAVEMENT MARKINGS AND EXISTING RAISED PAVEMENT MARKER REFLECTORS AFTER THE COMPLETION OF PHASE 1. PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS SHALL BE RESTORED TO EXISTING CONDITIONS AFTER THE COMPLETION OF PHASE 2.

06-10-2021 PAVEMENT MARKING AND RPM REFLECTOR NOTE ADDED

CALCULATED	
STC	JDH
CHECKED	

**MAINTENANCE OF TRAFFIC PLAN - WALL 6
PHASE 2**

**FRA-315-7.13
NOISE WALLS**

24
80

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SHEET NUM.										PART.		ALT (X)	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
4	28	77								01/NHS/OT	02/NHS/OT							
ROADWAY																		
LS										LS			201	11000	LS		CLEARING AND GRUBBING	
	2									2			202	58100	2	EACH	CATCH BASIN REMOVED	
	479									479			202	75000	479	FT	FENCE REMOVED	
	152									152			203	10000	152	CY	EXCAVATION	
	104									104			203	20000	104	CY	EMBANKMENT	
	1,858									1,858			204	10000	1,858	SY	SUBGRADE COMPACTION	
	1									1			204	45000	1	HOUR	PROOF ROLLING	
	575									575			606	15050	575	FT	GUARDRAIL, TYPE MGS	
	1									1			606	26150	1	EACH	ANCHOR ASSEMBLY, MGS TYPE E	
	1									1			606	26550	1	EACH	ANCHOR ASSEMBLY, MGS TYPE T	
	1									1			606	35102	1	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2	
	1,138									1,138			606	98000	1,138	FT	GUARDRAIL, MISC.: GUARDRAIL PANELS REMOVED AND REATTACHED	5
	17									17			607	23000	17	FT	FENCE, TYPE CLT	
EROSION CONTROL																		
	9,063									9,063			659	10000	9,063	SY	SEEDING AND MULCHING	
	454									454			659	14000	454	SY	REPAIR SEEDING AND MULCHING	
	454									454			659	15000	454	SY	INTER-SEEDING	
	1.26									1.26			659	20000	1.26	TON	COMMERCIAL FERTILIZER	
	1.87									1.87			659	31000	1.87	ACRE	LIME	
	51									51			659	35000	51	MGAL	WATER	
										LS			832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN	
										LS			832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS	
										LS			832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
										51,000			832	30000	51,000	EACH	EROSION CONTROL	
DRAINAGE																		
	1,868									1,868			605	13300	1,868	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
30										30			611	04400	30	FT	12" CONDUIT, TYPE B, 706.02	
	62									62			611	06100	62	FT	15" CONDUIT, TYPE C	
40										40			611	07400	40	FT	18" CONDUIT, TYPE B, 706.02	
15										15			611	10400	15	FT	24" CONDUIT, TYPE B, 706.02	
LS										LS			611	97300	LS		CONDUIT, MISC.: STORM SEWER PROTECTION	4
LS										LS			611	97300	LS		CONDUIT, MISC.: EXISTING 36" SANITARY SEWER LINE LOCATES	4
	1									1			611	98510	1	EACH	CATCH BASIN, NO. 2-3	
	2									2			611	99114	2	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D	
	228									228			899	10000	228	FT	CURED-IN-PLACE PIPE LINER (15" DIAMETER)	
PAVEMENT																		
	362									362			301	46000	362	CY	ASPHALT CONCRETE BASE, PG64-22	
	465									465			304	20000	465	CY	AGGREGATE BASE	
	112									112			407	10000	112	GAL	TACK COAT	
	78									78			441	10000	78	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), PG64-22	
	1,145									1,145			609	24510	1,145	FT	CURB, TYPE 4-C	
WATER WORK																		
LS										LS			638	98100	LS		WATER WORK, MISC.: CITY OF COLUMBUS DIVISION OF WATER 42" WATERLINE PROTECTION	4
TRAFFIC SURVEILLANCE																		
	1,388									1,388			625	23000	1,388	FT	NO. 4 AWG 600 VOLT DISTRIBUTION CABLE	
	302									302			625	25408	302	FT	CONDUIT, 2", 725.051	
	233									233			625	25750	233	FT	CONDUIT, 4", MULTICELL, 725.20 , EPC-40	
	525									525			625	29011	525	FT	TRENCH, 30" DEEP, AS PER PLAN	76
	1									1			625	30700	1	EACH	PULL BOX, 725.08, 18"	
	1									1			625	30710	1	EACH	PULL BOX, 725.08, 32"	
	2									2			625	32000	2	EACH	GROUND ROD	
	1									1			625	32001	1	EACH	GROUND ROD, AS PER PLAN	76
	1									1			625	34001	1	EACH	POWER SERVICE, AS PER PLAN	76
	525									525			625	36010	525	FT	UNDERGROUND WARNING/MARKING TAPE	
	1									1			630	70044	1	EACH	OVERHEAD SIGN SUPPORT, DMS PEDESTAL	
	1									1			630	70060	1	EACH	CATWALK, DMS PEDESTAL	
	1									1			630	70082	1	EACH	OVERHEAD SIGN SUPPORT FOUNDATION, DMS PEDESTAL	
	1									1			633	67101	1	EACH	CABINET FOUNDATION, AS PER PLAN	76
	1									1			633	67201	1	EACH	CONTROLLER WORK PAD, AS PER PLAN	76

06-10-2021 ITEMS MOVED TO THIS SHEET FROM SHEET 27

E-3498

CALCULATED
 CHECKED
 RMH
GENERAL SUMMARY
FRA -315-7.13
NOISE WALLS
26
80

J:\16-147_D6NoiseWalls\5.0 Design (Work)\Phase\93446\Roadway\93446GG002.dgn Sheet 2021-06-11 3:11:09 PM jennifer.kelley

SHEET NUM.							PART.		ALT	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
6	7	18	28	58	77		01/NHS/OT	02/NHS/OT	(X)	EXT	TOTAL				
					2,059			2,059		804	15010	2,059	FT	TRAFFIC SURVEILLANCE (CONT.)	
					1			1		804	34022	1	EACH	FIBER OPTIC CABLE, 24 FIBER	
					1			1		804	37000	1	EACH	FIBER TERMINATION PANEL, 24 FIBER	
					160			160		809	64550	160	FT	SPLICE ENCLOSURE, BUTT STYLE	
					1			1		809	65040	1	EACH	ETHERNET CABLE, OUTDOOR-RATED	
					1			1		809	65990	1	EACH	ITS CABINET - DMS	
					1			1		809	65990	1	EACH	ITS DEVICE, MISC.: REMOVAL OF DMS CABINET	76
					1			1		809	65990	1	EACH	ITS DEVICE, MISC.: REMOVAL OF DMS SIGN	76
														TRAFFIC CONTROL	
	115						115			621	00301	115	EACH	RPM REFLECTOR, AS PER PLAN	18
	115						115			621	54001	115	EACH	RAISED PAVEMENT MARKER REMOVED, AS PER PLAN	18
							1			630	85400	1	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	
							2			630	86102	2	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	
	1.84						1.84			644	00104	1.84	MILE	EDGE LINE, 6"	
	2.06						2.06			644	00204	2.06	MILE	LANE LINE, 6"	
	589						589			644	00404	589	FT	CHANNELIZING LINE, 12"	
	840						840			644	01520	840	FT	DOTTED LINE, 12"	
	0.06						0.06			646	10010	0.06	MILE	EDGE LINE, 6"	
	0.06						0.06			646	10110	0.06	MILE	LANE LINE, 6"	
	150						150			646	20510	150	FT	DOTTED LINE, 12"	
														WALL 6	
					2,073		2,073			202	23000	2,073	SY	PAVEMENT REMOVED	
					1,513		1,513			202	30700	1,513	FT	CONCRETE BARRIER REMOVED	
					LS		LS			503	21300	LS		UNCLASSIFIED EXCAVATION	
					181,011		181,011			509	10000	181,011	LB	EPOXY COATED REINFORCING STEEL	
					592		592			511	46012	592	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING	
					1,162		1,162			511	46512	1,162	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING	
					1,737		1,737			512	10100	1,737	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
					26		26			516	13600	26	SF	1" PREFORMED EXPANSION JOINT FILLER	
					801		801			516	13900	801	SF	2" PREFORMED EXPANSION JOINT FILLER	
					13,462		13,462			SPECIAL	60610920	13,462	SF	NOISE BARRIER, MISC.: BARRIER MOUNTED NOISE WALL	58
					2		2			622	10201	2	EACH	BARRIER TRANSITION, AS PER PLAN	73
					2		2			622	90200	2	EACH	BARRIER, MISC.: END ANCHORAGE, REINFORCED	73
														NOISE BARRIERS	
					35,256		35,256			SPECIAL	60610210	35,256	SF	NOISE BARRIER (REFLECTIVE)	4
														MAINTENANCE OF TRAFFIC	
	640						640			614	1110	640	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
		2,580					2,580			614	11630	2,580	FT	INCREASED BARRIER DELINEATION	
		1					1			614	12380	1	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
LS							LS			614	12420	LS		DETOUR SIGNING	
4							4			614	12484	4	EACH	WORK ZONE INCREASED PENALTIES SIGN	
					276		276			614	12801	276	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	18
					52		52			614	13310	52	EACH	BARRIER REFLECTOR, TYPE 1, ONE WAY	
					52		52			614	13350	52	EACH	OBJECT MARKER, ONE WAY	
							8			614	18601	8	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	6
							1.3			614	20200	1.3	MILE	WORK ZONE LANE LINE, CLASS I, 4", 740.06, TYPE I	
					2.01		2.01			614	22200	2.01	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 740.06, TYPE I	
					4,323		4,323			614	23400	4,323	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 740.06, TYPE I	
					830		830			614	24400	830	FT	WORK ZONE DOTTED LINE, CLASS I, 4", 740.06, TYPE I	
					276		276			621	00100	276	EACH	RPM	
					2,580		2,580			622	41100	2,580	FT	PORTABLE BARRIER, UNANCHORED	
														INCIDENTALS	
							LS	LS		614	11000	LS		MAINTAINING TRAFFIC	
							6			619	16010	6	MNTH	FIELD OFFICE, TYPE B	
							LS	LS		623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
							LS	LS		624	10000	LS		MOBILIZATION	
														TRAFFIC SURVEILLANCE ALTERNATES	
					1		1		X	809	63000	1	EACH	DYNAMIC MESSAGE SIGN (DMS), FULL-SIZE WALK-IN (ALTERNATE 1)	
							1		X	809	65990	1	EACH	ITS DEVICE, MISC.: DYNAMIC MESSAGE SIGN - FULL COLOR WALK-IN (ALTERNATE 2)	77

GENERAL SUMMARY

FRA-315-7.13
NOISE WALLS

27
80

E-3498

REFER TO THE FOLLOWING STANDARD DRAWING:

I-2.3 REVISED 01-15-16
 NBS-1-09 REVISED 01-19-18
 RM-4.4 REVISED 07-19-19

DESIGN SPECIFICATIONS:

THESE STRUCTURES CONFORM TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), 8TH EDITION, AND THE ODOT BRIDGE DESIGN MANUAL, 2007.

OPERATIONAL IMPORTANCE:

A LOAD MODIFIER OF 1.0 HAS BEEN ASSUMED FOR THE DESIGN OF THESE STRUCTURES IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL, 2007.

DESIGN DATA:

CONCRETE CLASS QC1 - COMPRESSIVE STRENGTH 4.5 KSI (CAST-IN-PLACE WALL)

REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI

FOUNDATION BEARING RESISTANCE:

WALL 6 FOOTINGS, AS DESIGNED, PRODUCE A MAXIMUM SERVICE LOAD PRESSURE OF 5.0 KIPS PER SQUARE FOOT AND MAXIMUM STRENGTH LOAD PRESSURE OF 6.2 KIPS PER SQUARE FOOT. THE FACTORED BEARING RESISTANCE IS 7.2 KIPS PER SQUARE FOOT.

EXISTING STRUCTURE VERIFICATION:

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURES HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURES AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURES AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO C&MS SECTIONS 102.05 AND 105.02.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURES. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

NOISE WALL SHOP DRAWINGS:

THE CONTRACTOR'S NOISE WALL SHOP DRAWINGS SHALL INCLUDE THE ACOUSTICAL PROFILE ON ALL SHOP DRAWING SUBMITTALS.

NOISE WALL ANCHORS:

ACCURATELY PLACE REINFORCING STEEL IN THE VICINITY OF THE NOISE WALL ANCHOR RODS TO AVOID INTERFERENCE WITH THE DRILLING OF BEARING ANCHOR HOLES OR THE PRE-SETTING OF ANCHORS.

ITEM 606, SPECIAL - NOISE BARRIER: BARRIER MOUNTED NOISE WALL:

THE CONTRACTOR SHALL PERFORM THIS ITEM OF WORK AS STATED IN STANDARD CONSTRUCTION DRAWING NBS-1-09, EXCEPT AS MODIFIED ON SHEETS 55 - 75. ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 606, SPECIAL - NOISE BARRIER: BARRIER MOUNTED NOISE WALL FOR PAYMENT.

FOR COLOR AND TEXTURE, SEE SHEET 54 OF 80.

ABBREVIATIONS:

THE FOLLOWING ABBREVIATIONS ARE USED THROUGHOUT THESE PLANS:

- B = BASELINE
- BOTT. = BOTTOM
- CL = CENTERLINE
- CIP = CAST IN PLACE
- C.J. = CONTRACTION JOINT
- BRG = BEARING
- CMS = CONSTRUCTION AND MATERIAL SPECIFICATIONS
- CONC = CONCRETE
- DND = DO NOT DISTURB
- EF = EACH FACE
- E.J. = EXPANSION JOINT
- FF = FAR FACE
- FTG. = FOOTING
- NF = NEAR FACE
- EL = ELEVATION
- EX = EXISTING
- NPCPP = NON-PERFORATED CORRUGATED PLASTIC PIPE
- PROP = PROPOSED
- TYP = TYPICAL
- PEJF = PREFORMED EXPANSION JOINT FILLER
- PCPP = PERFORATED CORRUGATED PLASTIC PIPE
- TBR = TO BE REMOVED
- TBRBO = TO BE REMOVED BY OTHERS

ESTIMATED QUANTITIES

COMPUTED BY: SS DATED: 7-13-18
 CHECKED BY: AIS DATED: 7-13-18

ITEM	ITEM EXTENSION	TOTAL	UNITS	DESCRIPTION	REF. SHEET
202	23000	2,073	SY	PAVEMENT REMOVED	
202	30700	1,513	FT	CONCRETE BARRIER REMOVED	
503	21300	LUMP		UNCLASSIFIED EXCAVATION	
509	10000	181,011	POUND	EPOXY COATED REINFORCING STEEL	
511	46012	592	CY	CLASS QC1 CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING	
511	46512	1,162	CY	CLASS QC1 CONCRETE WITH QC/QA, FOOTING	
512	10100	1,737	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
516	13600	26	SF	1" PREFORMED EXPANSION JOINT FILLER	
516	13900	801	SF	2" PREFORMED EXPANSION JOINT FILLER	
SPECIAL	60610920	13,462	SF	NOISE BARRIER: BARRIER MOUNTED NOISE WALL	4 OF 21
622	10201	2	EACH	BARRIER TRANSITION, AS PER PLAN	19 OF 21
622	90200	2	EACH	BARRIER, MISC.: END ANCHORAGE, REINFORCED	19 OF 21
ITEMS CARRIED TO THE GENERAL SUMMARY					

DESIGN AGENCY
 IBI GROUP
 8101 North High Street
 Columbus, OH 43235
 Tel: 614.880.1800 Fax: 614.816.1001
 ibigroup.com



DATE: 07/20/18
 REVISION: SRB
 STRUCTURE FILE NUMBER: N/A

DRAWN: SS
 REVISION:

DESIGNED: SS
 CHECKED: AIS

GENERAL NOTES & ESTIMATED QUANTITIES
 WALL 6, CIP CONCRETE WALL

FRA-315-7.13
 PID No. 106877

4 / 21

58
 80

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