

**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  
CONTACT: AL RIVERA  
PHONE: (614) 223-8903  
EMAIL: ar8341@att.com  
CONTACT: MIKE LEE  
PHONE: (614) 223-6783  
EMAIL: ml3453@att.com  
CONTACT: MIKE LEPLY  
PHONE: (614) 223-5872  
EMAIL: t19569@att.com

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

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

**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-I-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-I-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.

CALCULATED  
BSS  
CHECKED  
RMH

GENERAL NOTES

FRA-315-7.13  
NOISE WALLS

4  
80

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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									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:										
			6856	5323	5313												
			FT	FT	FT												
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>			2580	1	276	52	52	1.30	2.01	4323	830	276	2580				

**MAINTENANCE OF TRAFFIC PLAN - WALL 6**

**PHASE 2**

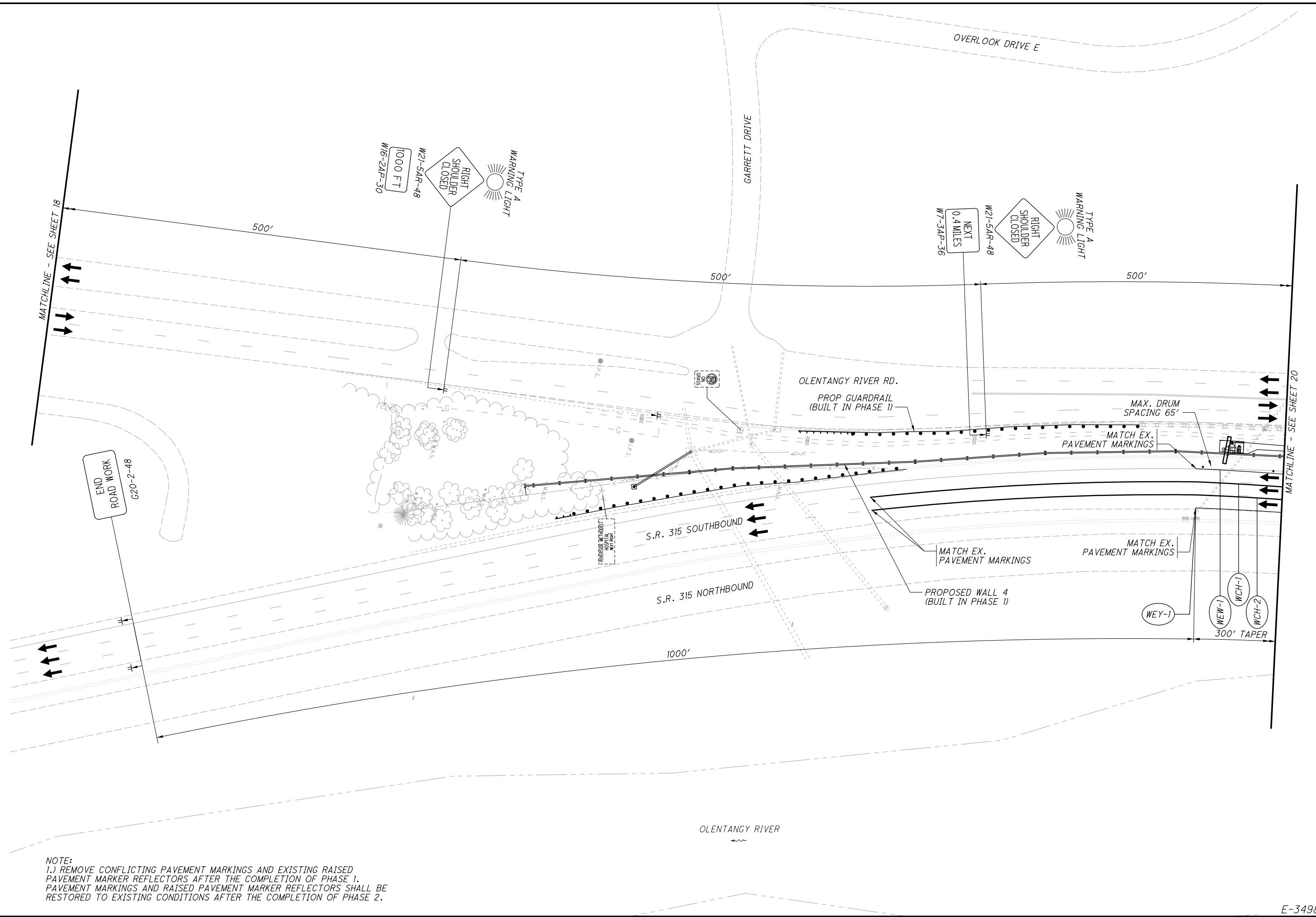
**FRA-315-7.13**

**NOISE WALLS**

18  
80

E-3498

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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.

CALCULATED  
 STC  
 CHECKED  
 JDH

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

**FRA-315-7.13**  
**NOISE WALLS**

**LEGEND**



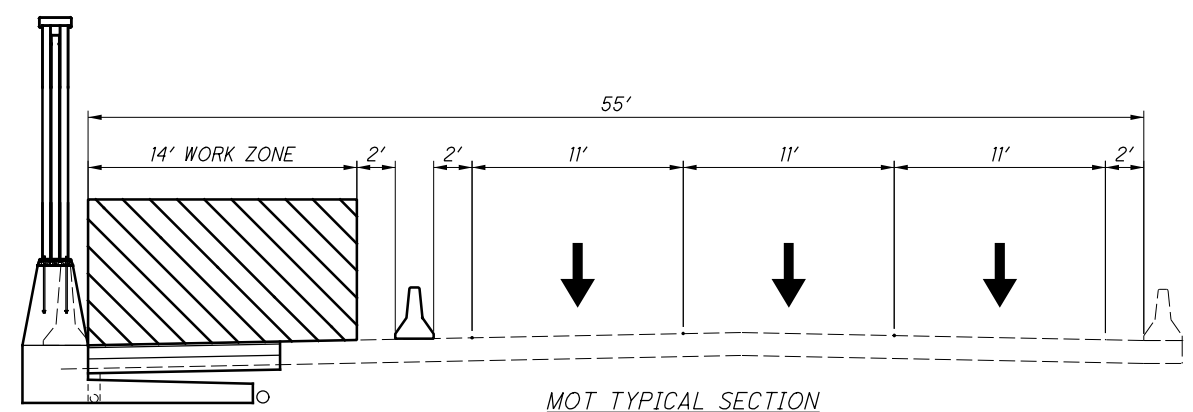
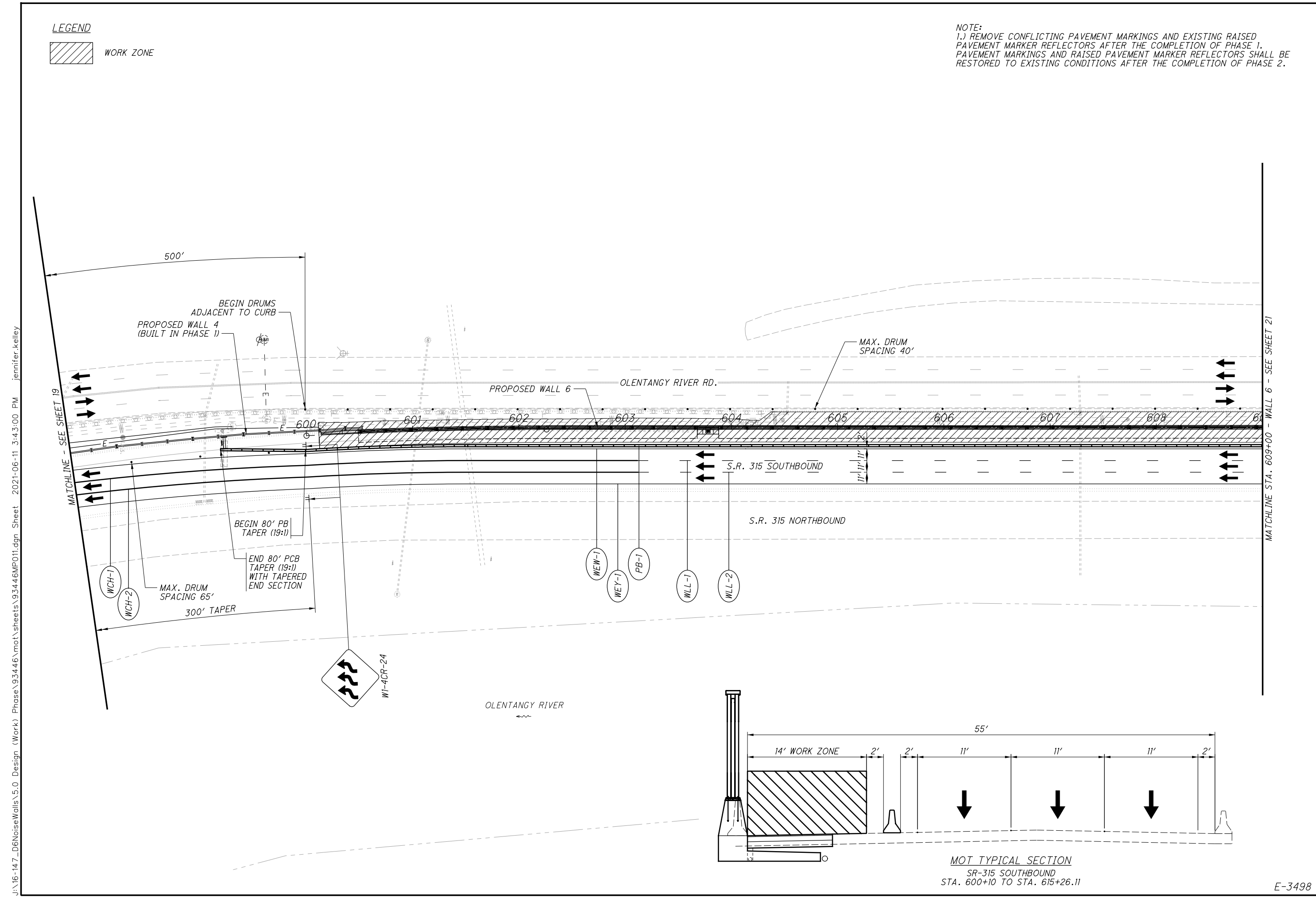
**NOTE:**  
 1.) REMOVE CONFLICTING PAVEMENT MARKINGS AND EXISTING RAISED PAVEMENT MARKER REFLECTORS AFTER THE COMPLETION OF PHASE 1. PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS SHALL BE RESTORED TO EXISTING CONDITIONS AFTER THE COMPLETION OF PHASE 2.

HORIZONTAL SCALE IN FEET  
 CALCULATED: STC  
 CHECKED: JDH

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

**FRA-315-7.13**  
**NOISE WALLS**

20  
80



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

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

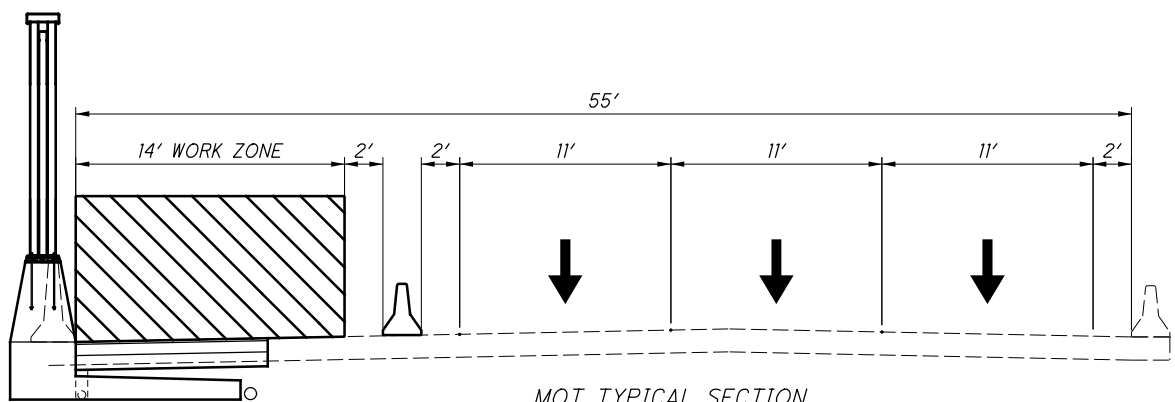
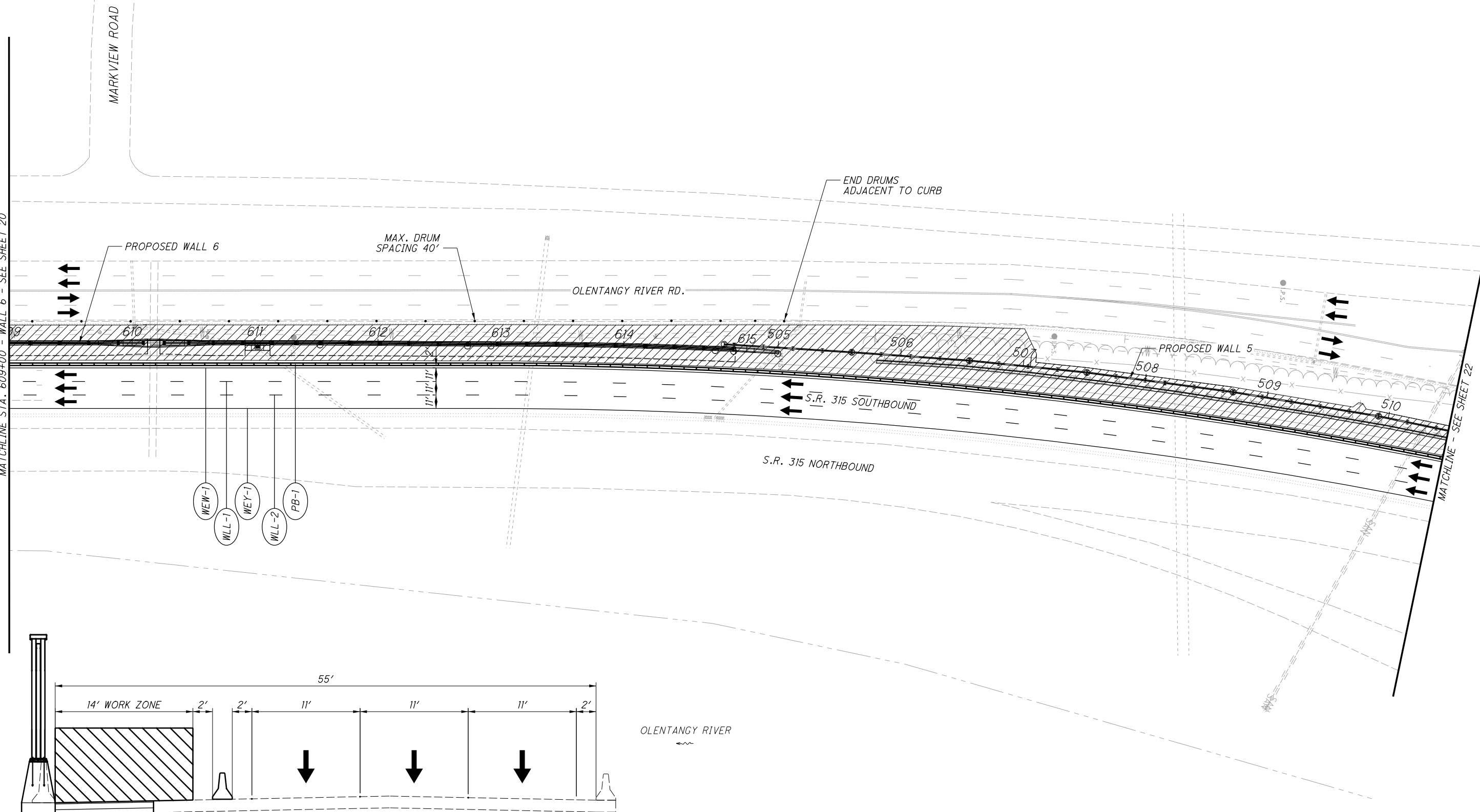
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 1.) REMOVE CONFLICTING PAVEMENT MARKINGS AND EXISTING RAISED PAVEMENT MARKER REFLECTORS AFTER THE COMPLETION OF PHASE 1. PAVEMENT MARKINGS AND RAISED PAVEMENT MARKER REFLECTORS SHALL BE RESTORED TO EXISTING CONDITIONS AFTER THE COMPLETION OF PHASE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

CALCULATED  
 STC  
 CHECKED  
 JDH

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 HORIZONTAL  
 SCALE IN FEET

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

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.

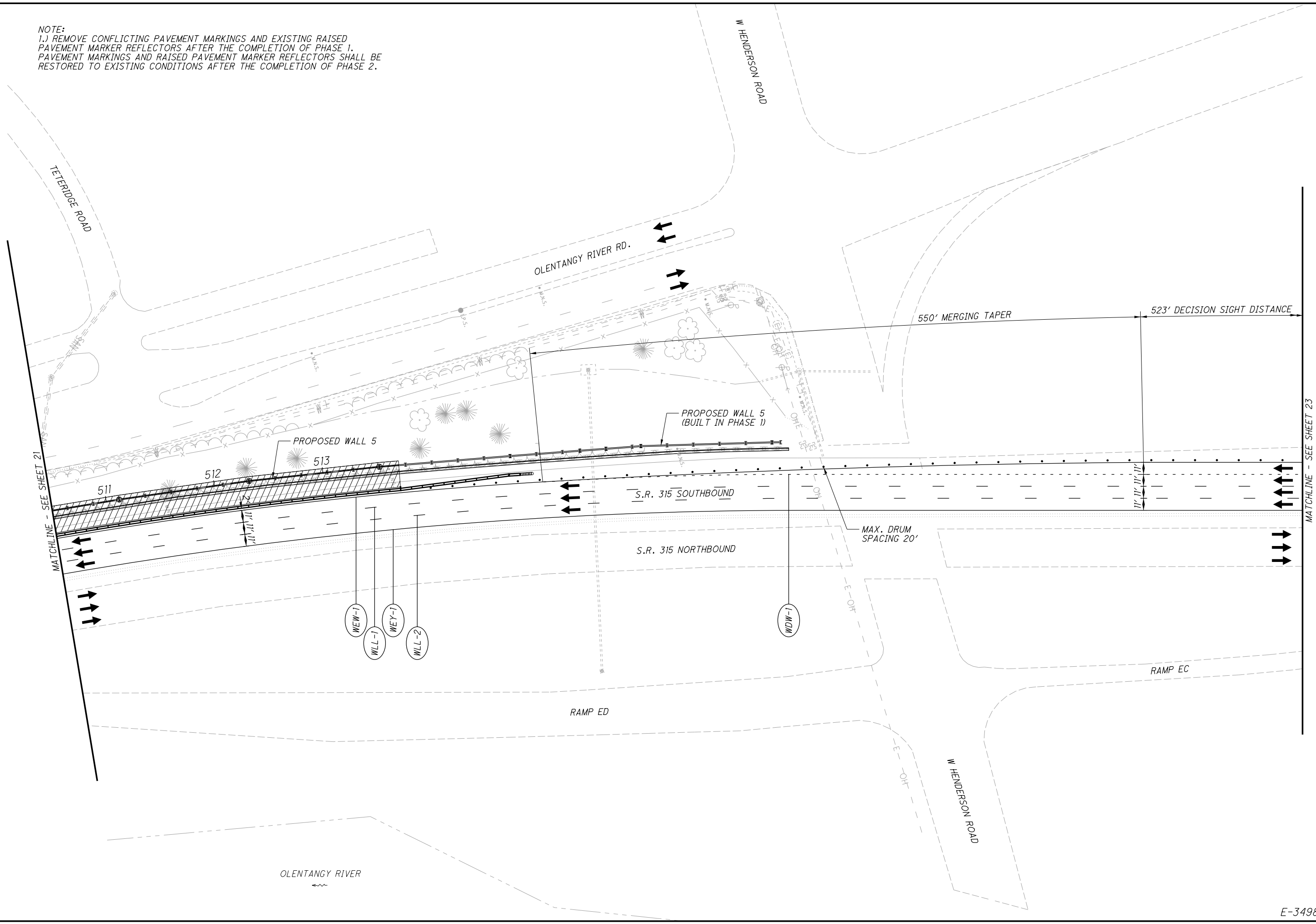


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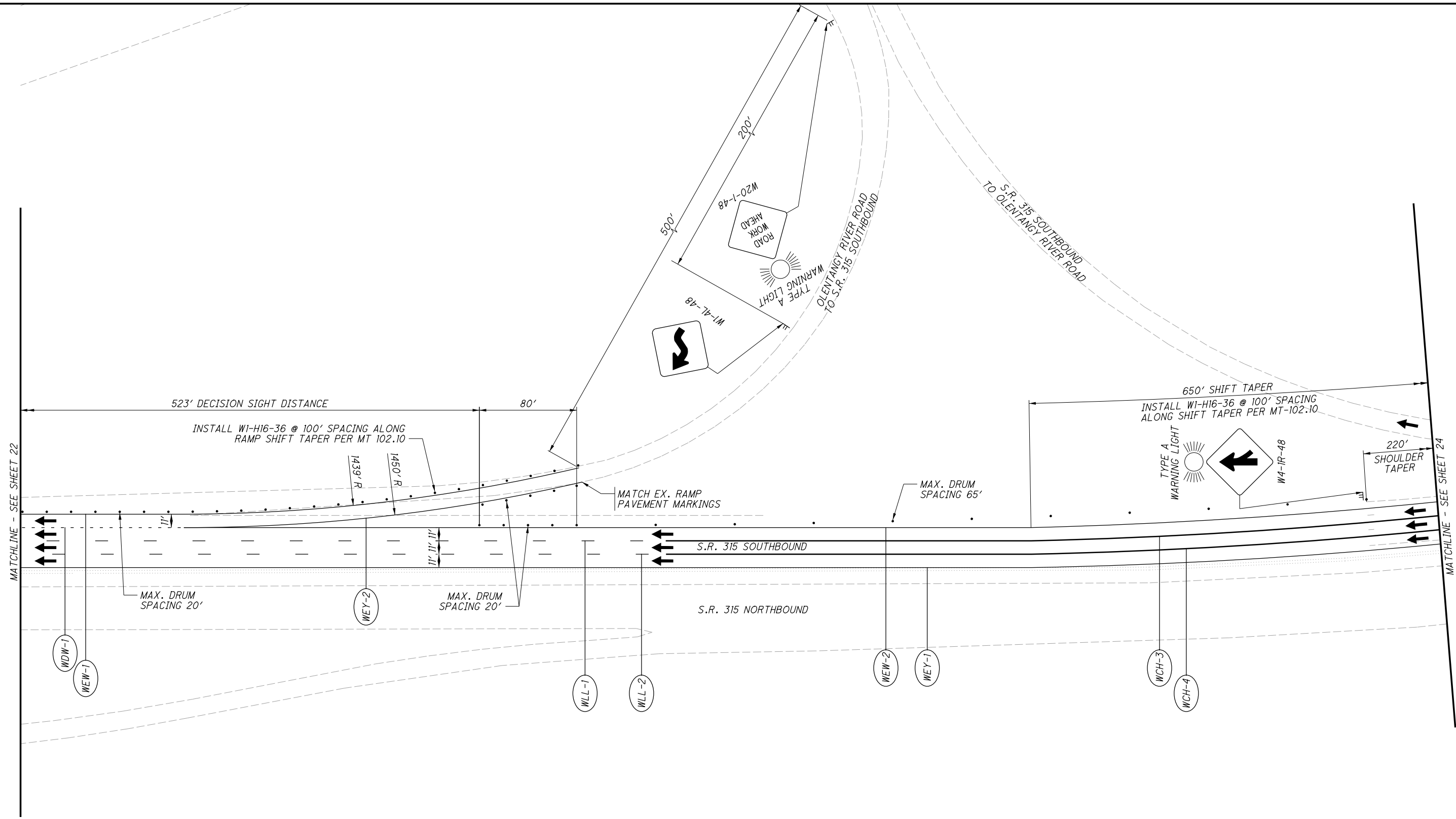
**MAINTENANCE OF TRAFFIC PLAN - WALL 6  
 PHASE 2**

**FRA-315-7.13  
 NOISE WALLS**

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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.

CALCULATED  
 STC  
 CHECKED  
 JDH

0 20 40 80  
 HORIZONTAL  
 SCALE IN FEET

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

**FRA-315-7.13**  
**NOISE WALLS**

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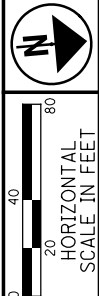


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CALCULATED	
STC	JDH
CHECKED	

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

**FRA-315-7.13  
 NOISE WALLS**







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SHEET NUM.										PART.		ALT (X)	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
6	7	18	28	58	77	01/NHS/OT	02/NHS/OT											
					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				1					630	85400	1	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL		
			2				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 QCI CONCRETE WITH QC/QA, RETAINING/WINGWALL NOT INCLUDING FOOTING		
					1,162		1,162					511	46512	1,162	CY	CLASS QCI 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		
												614	12801	276	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	18	
		276					276					614	13310	52	EACH	BARRIER REFLECTOR, TYPE 1, ONE WAY		
		52					52					614	13350	52	EACH	OBJECT MARKER, ONE WAY		
		52					52					614	18601	8	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	6	
8							8					614	20200	1.3	MILE	WORK ZONE LANE LINE, CLASS I, 4", 740.06, TYPE I		
												614	22200	2.01	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 740.06, TYPE I		
		2.01					2.01					614	23400	4,323	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 8", 740.06, TYPE I		
		4,323					4,323					614	24400	830	FT	WORK ZONE DOTTED LINE, CLASS I, 4", 740.06, TYPE I		
		830					830					621	00100	276	EACH	RPM		
		276					276					622	41100	2,580	FT	PORTABLE BARRIER, UNANCHORED		
		2,580					2,580									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

J:\16-147\_D6NoiseWalls\5.0 Design (Work) Phase\93446\structures\Wall\_006\sheets\93446\_006WN001.dgn Sheet 2021-06-09 3:02:25 PM Shirwan.Saeed

**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

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

ESTIMATED QUANTITIES					DESCRIPTION	REF. SHEET
ITEM	ITEM EXTENSION	TOTAL	UNITS			
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						

**GENERAL NOTES & ESTIMATED QUANTITIES**

WALL 6, CIP CONCRETE WALL

FRA -315-7.13  
 PID No. 106877

4 / 21

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 80

DESIGN AGENCY  
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 ibigroup.com



DATE 07/20/18  
 REVISIONS  
 SRB STRUCTURE FILE NUMBER N/A

DRAWN SS  
 CHECKED AIS  
 DESIGNED SS