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**ITEM 614, MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)**

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS FOURTH OF JULY  
NEW YEARS LABOR DAY  
MEMORIAL DAY THANKSGIVING  
(OTHER HOLIDAY OR EVENT)

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY TIME ALL LANES  
OR EVENT MUST BE OPEN TO TRAFFIC

SUNDAY 12:00N FRIDAY THROUGH 6:00AM MONDAY  
MONDAY 12:00N FRIDAY THROUGH 6:00AM TUESDAY  
TUESDAY 12:00N MONDAY THROUGH 6:00AM WEDNESDAY  
WEDNESDAY 12:00N TUESDAY THROUGH 6:00AM THURSDAY  
THURSDAY 12:00N WEDNESDAY THROUGH 6:00AM FRIDAY  
THURSDAY (THANKSGIVING ONLY)  
6:00AM WEDNESDAY THROUGH 6:00AM MONDAY  
FRIDAY 12:00N THURSDAY THROUGH 6:00AM MONDAY  
SATURDAY 12:00N FRIDAY THROUGH 6:00AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

**DRUM REQUIREMENTS**

IN ADDITION TO THE REQUIREMENTS OF THE PLANS, SPECIFICATION AND PROPOSAL, DRUMS FURNISHED BY THE CONTRACTOR SHALL BE NEW AND UNUSED AT THE TIME OF ARRIVAL ON THE PROJECT. ANY DRUMS BROUGHT ON THE PROJECT, WHICH HAVE PREVIOUSLY BEEN USED ELSEWHERE, WILL NOT BE ACCEPTED.

PAYMENT FOR DRUMS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED.

**WORK ZONE MARKINGS AND SIGNS**

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AT LOCATIONS IDENTIFIED BY THE ENGINEER FOR WORK ZONE PAVEMENT MARKINGS AND SIGNS PER THE REQUIREMENTS OF C&MS 614.04 AND 614.11.

**WINTER WORK LIMITATIONS**

THE USE OF PORTABLE BARRIER FOR LANE AND SHOULDER CLOSURES SHALL NOT BE PERMITTED BETWEEN NOVEMBER 1 AND APRIL 1.

**ITEM 614, REPLACEMENT SIGN**

FLATSHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ECT.

AN ESTIMATED QUANTITY OF 10 EACH HAS BEEN PROVIDED IN THE GENERAL SUMMARY.

**DUST CONTROL**

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616, WATER 5 M. GAL.

**ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)**

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NONGATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

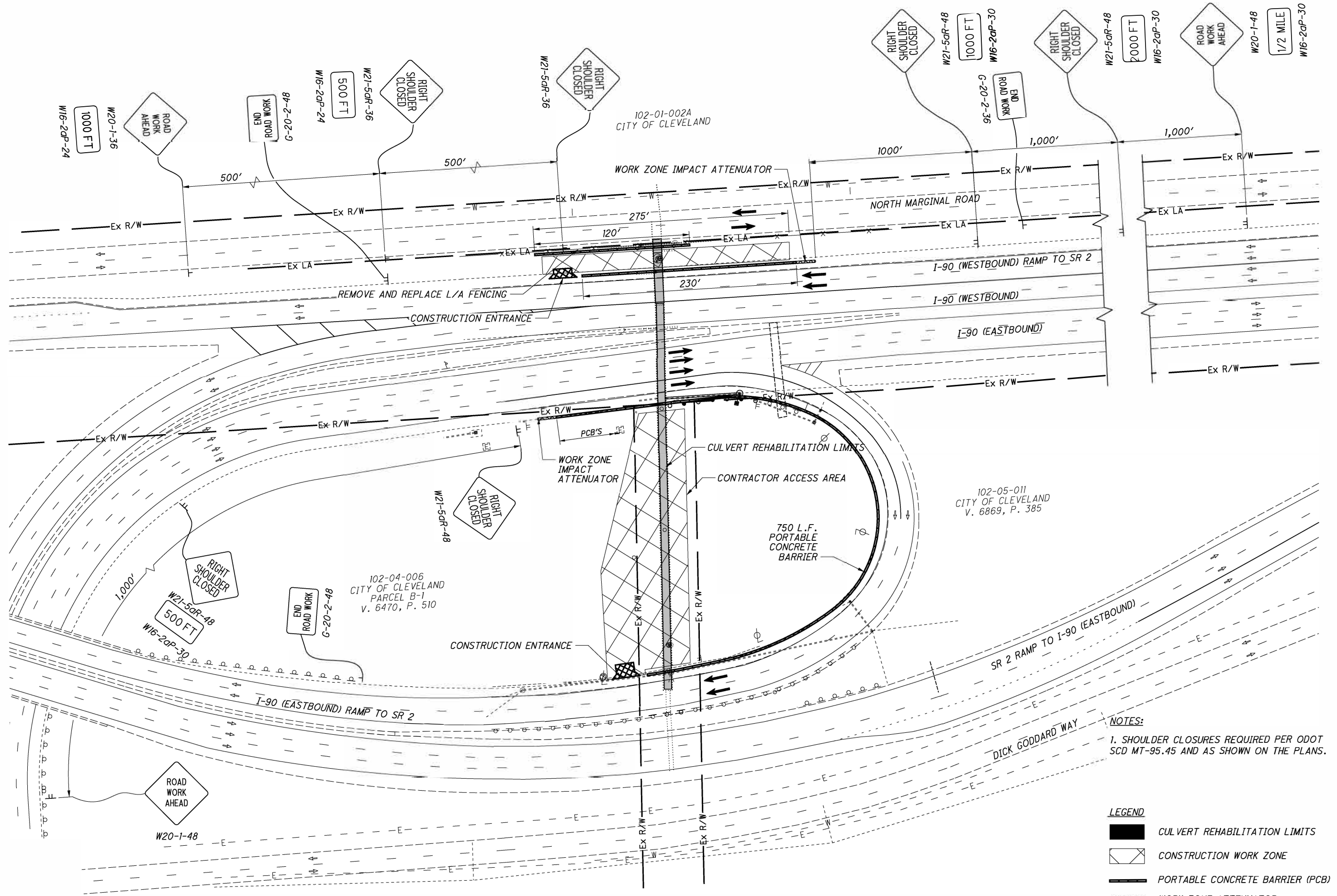
PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

CALCULATED  
MTG  
CHECKED  
SJP

MAINTENANCE OF TRAFFIC GENERAL NOTES

CUY-90-18.22 / VAR

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**NOTES:**  
 1. SHOULDER CLOSURES REQUIRED PER ODOT SCD MT-95.45 AND AS SHOWN ON THE PLANS.

- LEGEND**
- CULVERT REHABILITATION LIMITS
  - CONSTRUCTION WORK ZONE
  - PORTABLE CONCRETE BARRIER (PCB)
  - WORK ZONE ATTENUATOR
  - CONSTRUCTION ENTRANCE
  - CONSTRUCTION SIGNS

0 50 100  
 HORIZONTAL SCALE IN FEET  
 CALCULATED: MTG  
 CHECKED: SJP

**CONSTRUCTION ACCESS & MOT PLAN**  
**SITE 2 - CUY-90-1822**

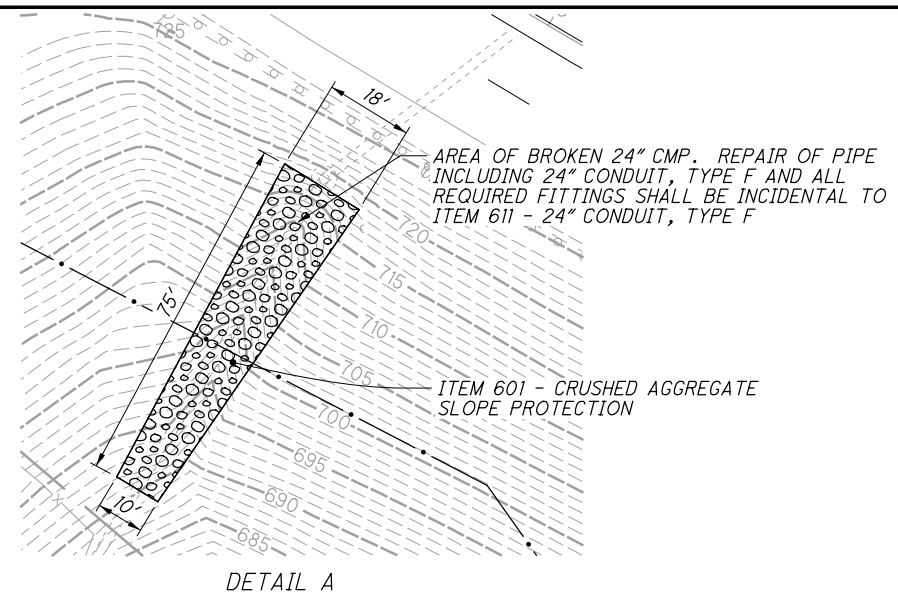
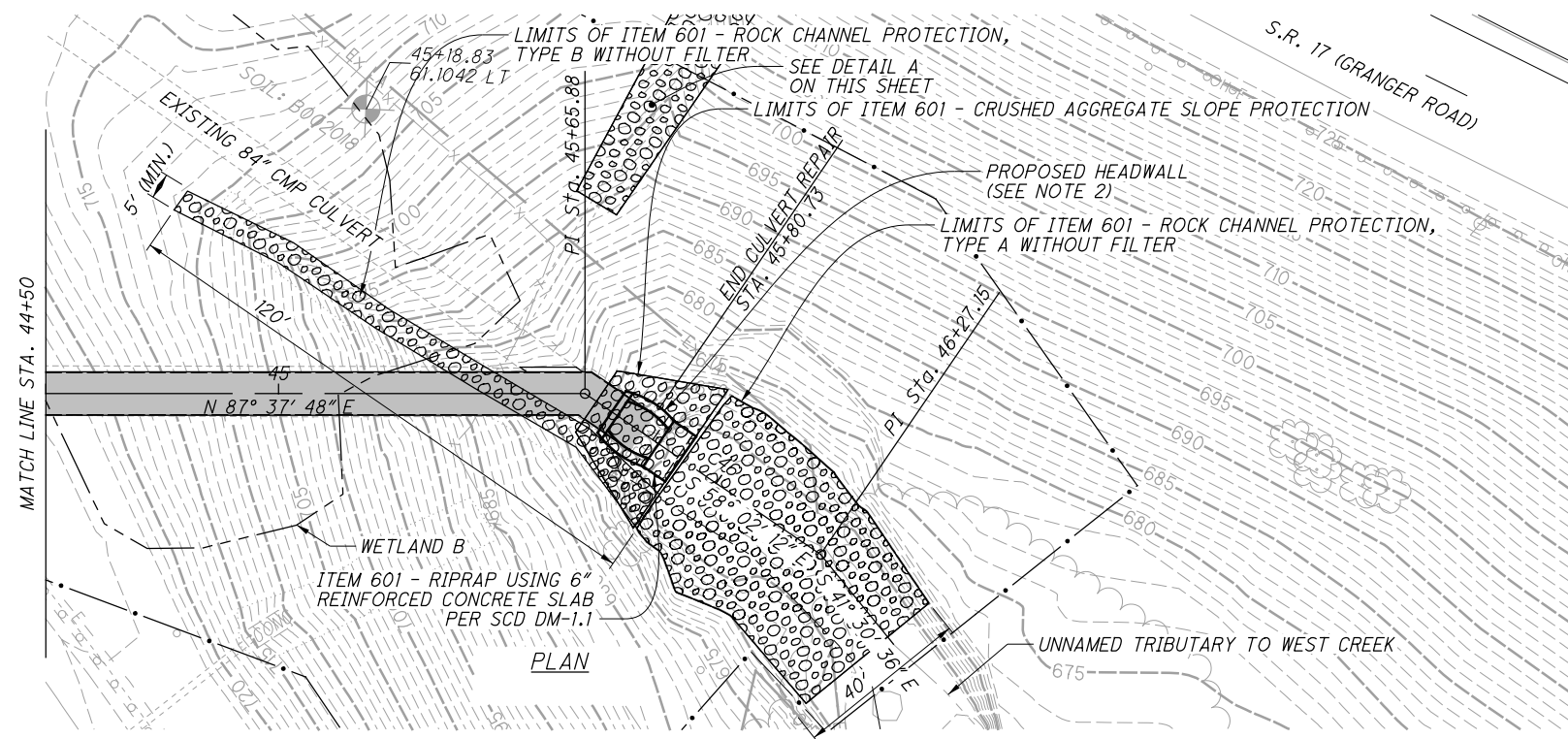
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SHEET NUM.												PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED RAP CHECKED XXX
10	11	12	13	15	17	18	19	20-21	22-29	30	55	01/MS/B R	02/NHS/B R							
																<b>ROADWAY</b>				
												LS	LS	201	11000	LS	CLEARING AND GRUBBING			
						100						100		202	38200	100	FT	GUARDRAIL REMOVED FOR REUSE		
						1						1		202	58100	1	EACH	CATCH BASIN REMOVED		
												1,352		203	10000	1,352	CY	EXCAVATION		
						10			1,352			1,632		203	20000	1,632	CY	EMBANKMENT		
												100		606	16000	100	FT	GUARDRAIL REBUILT		
												100	100	607	23004	200	FT	FENCE REBUILT, TYPE CLT		5
									1,400			1,400		863	00300	1,400	SY	GEOGRID, TYPE P3		
																		<b>EROSION CONTROL</b>		
											8		8	601	11000	8	SY	RIPRAP, TYPE D		
								156				156		601	20000	156	SY	CRUSHED AGGREGATE SLOPE PROTECTION		
									281			281		601	34000	281	CY	ROCK CHANNEL PROTECTION, TYPE A WITHOUT FILTER		
								45				45		601	34100	45	CY	ROCK CHANNEL PROTECTION, TYPE B WITHOUT FILTER		
										35			35	601	34200	35	CY	ROCK CHANNEL PROTECTION, TYPE C WITHOUT FILTER		
					1	1	1	1		1		3	2	659	00100	5	EACH	SOIL ANALYSIS TEST		5
					444	333	211	697			28	1,241	472	659	00300	1,713	CY	TOPSOIL		
					4,000	3,000	1,900	6,278			250	11,178	4,250	659	10000	15,428	SY	SEEDING AND MULCHING		
					200	150	95	314			13	559	213	659	14000	772	SY	REPAIR SEEDING AND MULCHING		
					200	150	95	314			13	559	213	659	15000	772	SY	INTER-SEEDING		
					0.56	0.42	0.27	0.88			0.03	1.57	0.59	659	20000	2.16	TON	COMMERCIAL FERTILIZER		
					0.83	0.62	0.39	1.3			0.05	2.31	0.88	659	31000	3.19	ACRE	LIME		
					21.6	16.2	10.3	33.9			1.4	60.4	23	659	35000	83.4	MGAL	WATER		
					27	20	13	42			2	75	29	659	40000	104	MSF	MOWING		
												LS	LS	832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN		
												LS	LS	832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS		
												LS	LS	832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE		
												43,883.5	43,883.5	832	30000	87,767	EACH	EROSION CONTROL		
																		<b>DRAINAGE</b>		
						11						11		611	05900	11	FT	15" CONDUIT, TYPE B		
						80						80		611	08900	80	FT	21" CONDUIT, TYPE B		
								20				20		611	11200	20	FT	24" CONDUIT, TYPE F		
						1						1		611	98300	1	EACH	CATCH BASIN, NO. 5		
						1						1		611	99574	1	EACH	MANHOLE, NO. 3		
																		STRUCTURE 20 FOOT SPAN AND UNDER (SITE 1 - SFN 1800159)		
																		STRUCTURE 20 FOOT SPAN AND UNDER (SITE 2 - SFN 1800183)		
																		STRUCTURE 20 FOOT SPAN AND UNDER (SITE 3 - SFN 1809407)		
																		STRUCTURE 20 FOOT SPAN AND UNDER (SITE 4 - SFN 1812769)		
																		STRUCTURE 20 FOOT SPAN AND UNDER (SITE 5 - SFN 2800241)		
																		<b>MAINTENANCE OF TRAFFIC</b>		
	2	1										3	3	614	12380	6	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)		
		1		2								1	2	614	12384	3	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (BIDIRECTIONAL)		
	2	2	2	2								6	4	614	12500	10	EACH	REPLACEMENT SIGN		
												54	36	614	18601	90	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN		9
					0.06								0.06	614	21000	0.06	MILE	WORK ZONE CENTER LINE, CLASS I		
					0.19								0.19	614	22010	0.19	MILE	WORK ZONE EDGE LINE, CLASS I, 6"		
					30								30	614	26000	30	FT	WORK ZONE STOP LINE, CLASS I		
						LS						LS	LS	615	10000	LS		ROADS FOR MAINTAINING TRAFFIC		
												3	2	616	10000	5	MGAL	WATER		8
	1,220	450	530	660								2,200	1,320	622	41100	3,520	FT	PORTABLE BARRIER, UNANCHORED		
																		<b>INCIDENTALS</b>		
												LS	LS	614	11000	LS		MAINTAINING TRAFFIC		
												6	6	619	16010	12	MNTH	FIELD OFFICE, TYPE B		
												LS	LS	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING		
												LS	LS	624	10000	LS		MOBILIZATION		

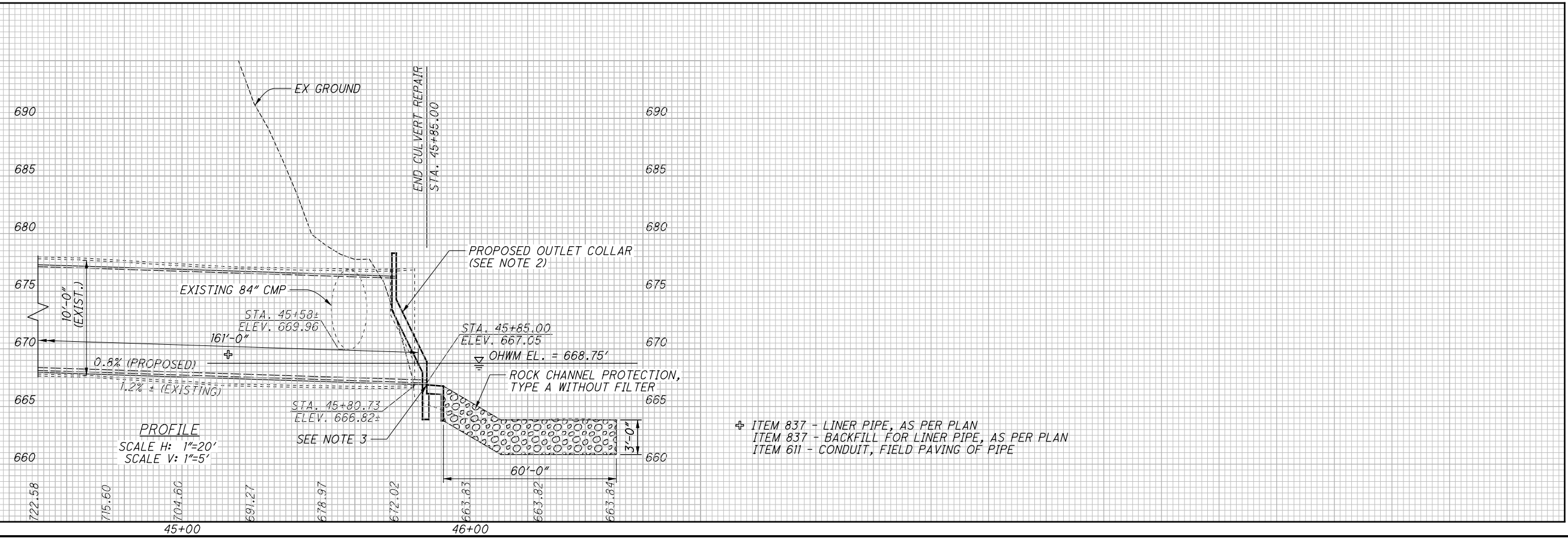
**GENERAL SUMMARY - ALL SITES**

**CUY-90-18.22 / VAR**

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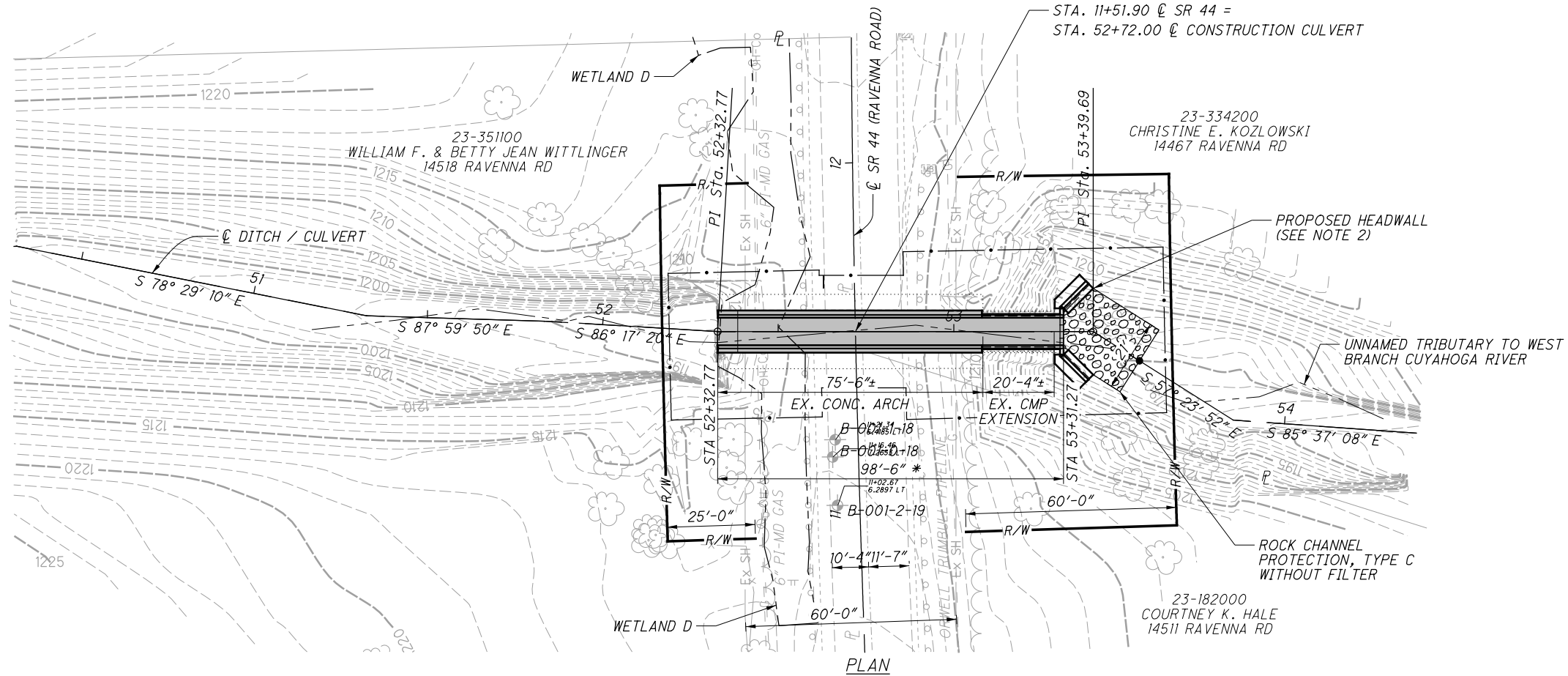
- NOTES:**
1. SEE CUY-480-1628 SITE PLAN SHEET, SHEET 49, FOR COMPLETE LIMITS OF CONSTRUCTION.
  2. SEE CUY-480-16.28 DETAIL SHEET, SHEET 55, FOR ADDITIONAL OUTLET COLLAR DETAILS.
  3. CONTRACTOR SHALL INSTALL NON-SHRINK HYDRAULIC CEMENT POST GROUTING TO PROVIDE A SMOOTH TRANSITION AROUND THE FULL INTERFACE OF THE EXISTING STRUCTURE AND PROPOSED LINER. TYPICAL AT UPSTREAM AND DOWNSTREAM LINER LIMITS.



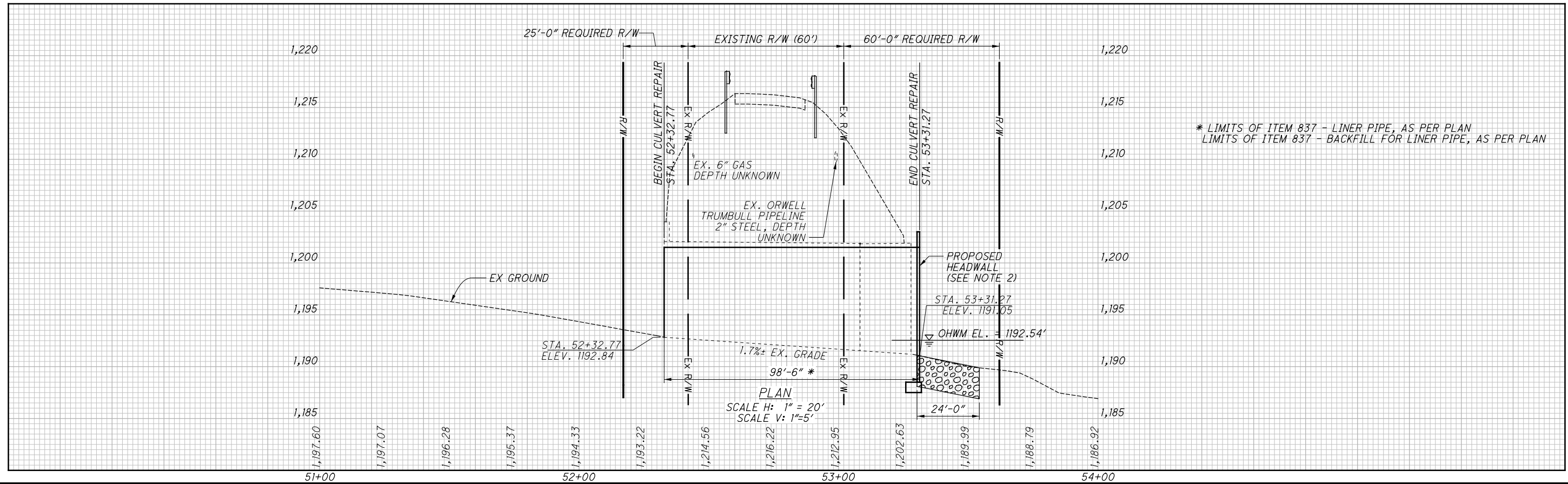
**CULVERT PLAN AND PROFILE**

**SITE 4 - CUY-480-1628**

**CUY-90-18.22 / VAR**



- NOTES:**
- SEE GEA-044-0916 SITE PLAN SHEET, SHEET 56, FOR COMPLETE LIMITS OF CONSTRUCTION.
  - SEE GEA-044-0916 DETAIL SHEET, SHEET 62, FOR ADDITIONAL HEADWALL DETAILS.



\* LIMITS OF ITEM 837 - LINER PIPE, AS PER PLAN  
 LIMITS OF ITEM 837 - BACKFILL FOR LINER PIPE, AS PER PLAN