

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

GRE CULVERTS FY 2021

SPRING VALLEY, XENIA, AND
BEAVERCREEK TOWNSHIPS
GREENE COUNTY

PROJECT DESCRIPTION

INVERT PAVING OF CULVERTS GRE-380-2.16, GRE-35-10.1, GRE-675-5.79, AND GRE-675-5.95. SPALL PATCHING OF GRE-35-10.3. END SECTION REPAIR OF GRE-675-5.95R.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: * ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: * ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: * ACRES
* SEE INDIVIDUAL CULVERT DETAIL SHEETS

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.

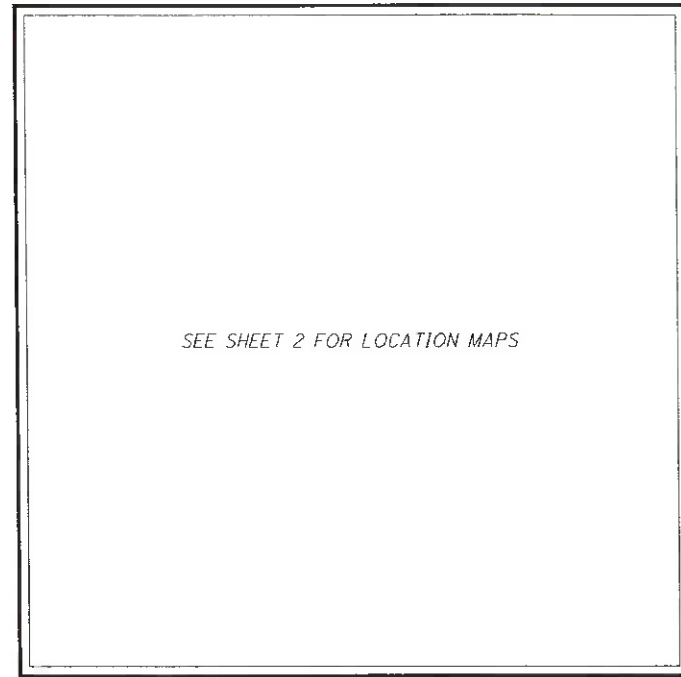
2019 SPECIFICATIONS

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.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES

APPROVED _____
DATE 10/8/2020 Tary K Cepkell
DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION



LOCATION MAP

DESIGN EXCEPTIONS

DESIGN FEATURE	APPROVAL DATE	SHEET NUMBERS
GRE-380-0216	9/29/2020	6-8
LANE WIDTH		
PAVEMENT CROSS SLOPE		
SHOULDER WIDTH		

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UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig

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

PLAN PREPARED BY:
OHIO DEPARTMENT OF
TRANSPORTATION
DISTRICT 8 - ENGINEERING

ENGINEERS SEAL:

SIGNED: Maxwell L. Bailey
DATE: 10/8/2020

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
HW-2.1	7/20/18	MT-95.30	7/19/19	800-2019 10/16/20	WATERWAY PERMIT CONDITIONS 09/20/2019
DM-1.1	7/21/17	MT-97.10	7/18/14	821 4/20/12	
DM-4.3	1/15/16	MT-98.10	1/17/20	832 10/19/18	
DM-4.4	1/15/16	MT-98.20	4/19/19	833 10/20/17	
		MT-98.28	1/17/20	921 4/20/12	
TC-61.30	7/19/19	MT-105.10	1/17/20		
CB-3.4	1/15/16				

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FEDERAL PROJECT NO. E170920
PID NO. 100909
CONSTRUCTION PROJECT NO.
RAILROAD INVOLVEMENT NONE
GRE CULVERTS FY 2021

ITEM 614, MAINTAINING TRAFFIC

TRAFFIC SHALL BE MAINTAINED AT ALL TIMES PER THE PERMITTED LANE CLOSURE TIMES NOTE BY USE OF THE EXISTING PAVEMENT

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 OR EVENT TIME ALL LANES 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).

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

FLOODLIGHTING

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE		
ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 CALENDAR DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN A NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONES.

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING THE SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 60 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

PERMITTED LANE CLOSURE TIMES

SHORT TERM LANE CLOSURES ARE THOSE WHICH ARE PERMITTED BY THE PERMITTED LANE CLOSURE NOTE. THESE TIMES SHALL NOT BE REVISED WITHOUT PRIOR APPROVAL FROM THE DISTRICT 8 WORK ZONE TRAFFIC CONTROL MANAGER. SHORT TERM LANE CLOSURES SHALL ONLY BE IMPLEMENTED WHEN WORK IS BEING CONTINUOUSLY PERFORMED IN THE LANE. THE CLOSURE SHALL BE REMOVED AS SOON AS POSSIBLE AFTER WORK HAS STOPPED. PERMITTED LANE CLOSURES SHALL ONLY BE ALLOWED DURING THE TIMES SPECIFIED IN THE LANE VALUE CONTRACT TABLE INCLUDED IN THESE PLANS. NO LANE OR SHOULDER CLOSURE SHALL BE IN PLACE WHEN NO WORK IS BEING PERFORMED.

PERMITTED LANE CLOSURE TIMES AND UNAUTHORIZED LANE USE TABLE				
LOCATION	1 LANE CLOSED		TIME UNIT	DISINCENTIVE PER LANE PER TIME UNIT
	WEEKDAY	WEEKEND		
GRE-380-0216	AT ALL TIMES	AT ALL TIMES	1 MINUTE	\$10
GRE-35-1010 & GRE-35-1030	AT ALL TIMES	AT ALL TIMES	1 MINUTE	\$125
GRE-675-0579, GRE-675-0595 & GRE-675-0595R	8 PM - 6 AM 9 AM - 2PM	7 PM - 2 PM	1 MINUTE	\$475

NOTES:

1. MAINTAIN A MINIMUM 11' LANE ON ALL RAMPS AT ALL TIMES.

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CALCULATED
 MLB
 CHECKED
 SK
 MAINTENANCE OF TRAFFIC GENERAL NOTES

GRE CULVERTS
 FY 2021

SHEET NUM.								PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	MLB	CHECKED	TRB					
3	6	8	9	10	11	12	13	01/NHS/C V	02/IMS/C V	03/STR/C V	04/NFA/C V															
								LS	LS	LS	LS	201	11000	LS		ROADWAY										
	2									2		202	20010	2	EACH	CLEARING AND GRUBBING										
							3.8				3.8	202	32800	3.8	SY	HEADWALL REMOVED										
							10				10	202	35200	10	FT	CONCRETE SLOPE PROTECTION REMOVED										
						1				1		202	58100	1	EACH	PIPE REMOVED, OVER 24"										
			198								198	SPECIAL	20270120	198	FT	CATCH BASIN REMOVED							3			
	60			296	35	75	169	296	110	60	169	SPECIAL	20270130	635	FT	PIPE CLEANOUT, 27" TO 48"							3			
	112									112		202	75000	112	FT	PIPE CLEANOUT OVER 48"										
		60								60		202	98400	60	SF	FENCE REMOVED										
		72								72		203	10000	72	CY	REMOVAL MISC.: EXISTING CONCRETE FIELD PAVING							8			
110										110		203	10001	110	CY	EXCAVATION										
		472								472		203	20000	472	CY	EXCAVATION, AS PER PLAN							3			
110										110		203	20001	110	CY	EMBANKMENT										
								LS	LS	LS	LS	503	11101	LS		EMBANKMENT, AS PER PLAN							3			
		40								40		605	31100	40	FT	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN							3			
	LS									LS		878	25000	LS		AGGREGATE DRAINS										
																INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS										
																EROSION CONTROL										
	27									27		601	32100	27	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER										
	22									22		601	11000	22	SY	RIPRAP, TYPE D										
	27									27		659	00300	27	CY	TOPSOIL										
2,600								625	825	527	623	659	10000	2,600	SY	SEEDING AND MULCHING										
0.34								0.08	0.11	0.07	0.08	659	20000	0.34	TON	COMMERCIAL FERTILIZER										
0.54								0.13	0.17	0.11	0.13	659	31000	0.54	ACRE	LIME										
14.2								3.4	4.6	2.8	3.4	659	35000	14.2	MGAL	WATER										
								1,750	1,750	1,750	1,750	832	30000	7,000	EACH	EROSION CONTROL										
																DRAINAGE										
						1				1		518	62200	1	EACH	STRUCTURE DRAINAGE, MISC.: RESEAL JOINT WITH HYDROPHOBIC GROUT							3			
				265				265				519	11100	265	SF	PATCHING CONCRETE STRUCTURE										
	7.1									7.1		602	20000	7.1	CY	CONCRETE MASONRY										
						8				8		611	22200	8	FT	54" CONDUIT, TYPE A, 707.05										
							10				10	611	31000	10	FT	102" CONDUIT, TYPE A, 707.03										
	36									36		611	59100	36	FT	103" X 71" CONDUIT, TYPE A, 707.02 ALUMINIZED										
	99									99		611	96550	99	FT	FIELD PAVING OF EXISTING PIPE, 103"x71" CMP										
		198									198	611	96550	198	FT	FIELD PAVING OF EXISTING PIPE, 42" CMP										
				35	75				110			611	96550	110	FT	FIELD PAVING OF EXISTING PIPE, 54" CMP										
					1				1			611	98270	1	EACH	CATCH BASIN, NO. 4A							3			
							5				5	613	41200	5	CY	LOW STRENGTH MORTAR BACKFILL							3			
																PAVEMENT										
		25								25		411	10000	25	CY	STABILIZED CRUSHED AGGREGATE										
																TRAFFIC CONTROL										
	1									1		630	84900	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL										
	1									1		630	86002	1	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL										
																MAINTENANCE OF TRAFFIC										
								20	20		20	614	11110	60	HOURL	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE							4			
								LS	LS	LS	LS	614	11000	LS		INCIDENTALS										
										LS		623	10000	LS		MAINTAINING TRAFFIC										
								LS	LS	LS	LS	624	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING										
																MOBILIZATION										

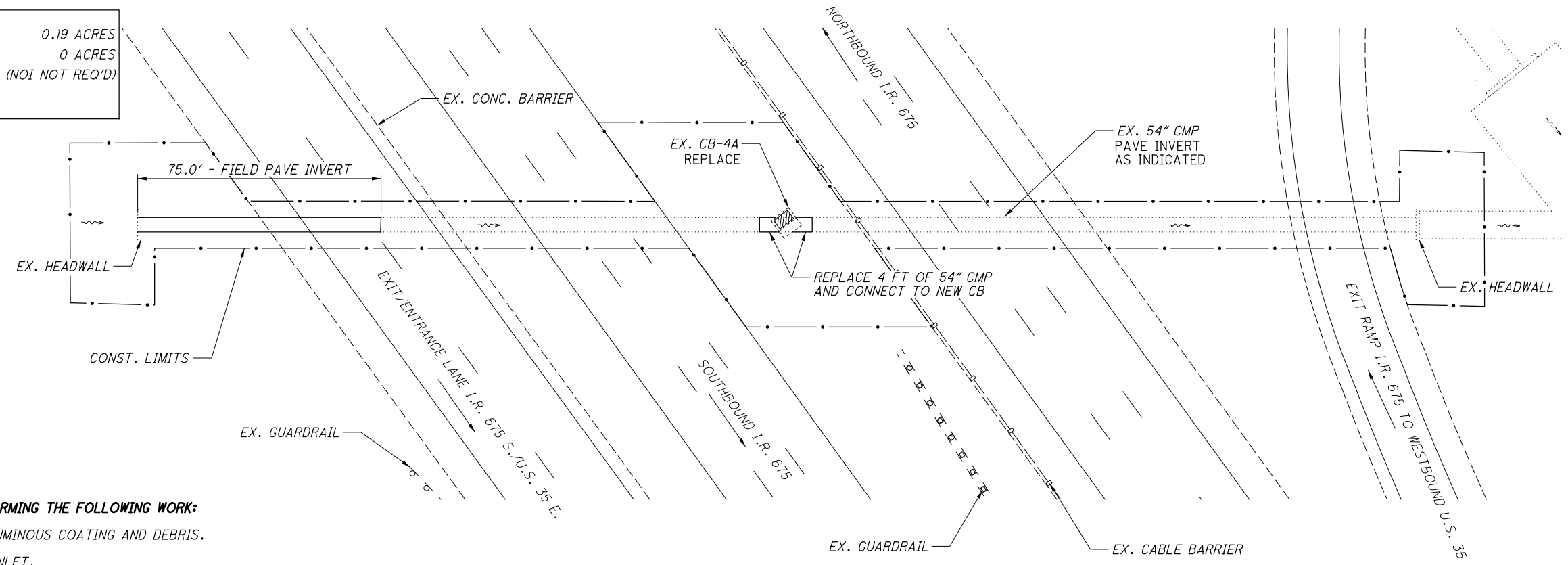
GENERAL SUMMARY

GRE CULVERTS
FY 2021

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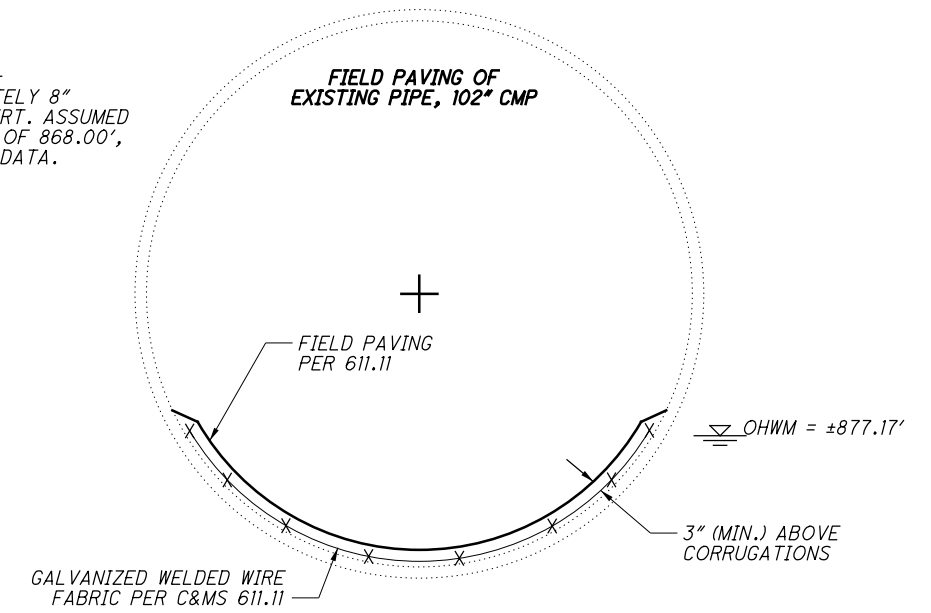
PROJECT EARTH DISTURBED AREA: 0.19 ACRES
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0 ACRES
 NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI NOT REQ'D)

EXISTING STRUCTURE	
TYPE:	CMP
SIZE:	54", 395' LONG
SKREW:	36°54'10"
ALIGNMENT:	TANGENT
CFN:	1880393
DATE BUILT:	1983
CONDITION:	FAIR
LATITUDE:	N 39° 44' 12.12"
LONGITUDE:	W 84° 5' 32.96"



- REHABILITATE CULVERT GRE-675-0595 BY PERFORMING THE FOLLOWING WORK:**
1. CLEAN CULVERT INTERIOR OF SEDIMENT, BITUMINOUS COATING AND DEBRIS.
 2. FIELD PAVE 75 FEET OF INVERT FROM THE INLET.
 3. TUCK POINT EXISTING CATCH BASIN WITH NEW MORTAR.
 4. SPRAY LINE INSIDE OF ENTIRE CATCH BASIN INCLUDING CMP.
 5. REPAIR DISPLACED JOINT APPROXIMATELY 50 FEET FROM OUTLET AND SEAL OFF INFILTRATION WITH HYDROPHOBIC GROUT.

FOR INFORMATION ONLY - THE OHWM IS APPROXIMATELY 8" ABOVE THE CULVERT INVERT. ASSUMED INLET INVERT ELEVATION OF 868.00', PER LIDAR TOPOGRAPHIC DATA.



EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PROPOSED PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, SUCH DETAILS AND DIMENSIONS ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK, BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04. BASE THE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

ESTIMATED QUANTITIES (TOTALS CARRIED TO GENERAL SUMMARY)			
ITEM	QUANTITY	UNIT	DESCRIPTION
SPECIAL	75	FT	PIPE CLEANOUT OVER 48"
202	1	EA	CATCH BASIN REMOVED
611	75	FT	FIELD PAVING OF EXISTING PIPE, 54" CMP
611	1	EA	CATCH BASIN NO. 4A
518	1	EA	STRUCTURE DRAINAGE, MISC: RESEAL JOINT WITH HYDROPHOBIC GROUT
611	8	FT	54" CONDUIT, TYPE A, 707.05

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