

ACCESS TO PRIVATE PROPERTY

ACCESS TO DRIVES SHALL BE MAINTAINED VIA EXISTING PAVEMENT, TEMPORARY PAVEMENT OR ITEM 304. IN THE EVENT THAT A DRIVE CANNOT BE MAINTAINED AND A CLOSURE IS NEEDED THE CONTRACTOR WILL COORDINATE WITH THE PROPERTY OWNER TO MINIMIZE THE IMPACT TO THE OWNER.

COMMERCIAL PROPERTY WITH MULTIPLE DRIVES MAY HAVE ONE DRIVE CLOSED WHEN WORKING IN THE AREA OF THE DRIVE. COMMERCIAL PROPERTY WITH ONLY ONE DRIVEWAY OR DRIVEWAYS WITH ONE DIRECTION TRAFFIC USE WILL BE CONSTRUCTED PART WIDTH. THE CONTRACTOR WILL COORDINATE WITH THE PROPERTY OWNER TO MINIMIZE THE IMPACT TO THE OWNER.

MAINTAIN ACCESS TO RESIDENTIAL PROPERTIES AT ALL TIMES. WHEN A RESIDENTIAL DRIVE IS CLOSED FOR CONSTRUCTION, MAINTAIN ALTERNATE ACCESS TO THE PROPERTY. IT MAY BE REQUIRED FOR THE CONTRACTOR TO MAINTAIN ONE PASSABLE LANE WITHIN A CLOSURE IN ORDER FOR VEHICLES TO ACCESS RESIDENCY WITH A VEHICLE.

UNLESS CALLED OUT IN THE PLANS THE CONTRACTOR WILL COORDINATED ANY CLOSURES WITH PROPERTY OWNERS AND BE RESPONSIBLE FOR ANY AND ALL PROPERTY USE AGREEMENTS FOR ALTERNATIVE ACCESS.

SUCCESSFULLY NOTIFY THE OCCUPANTS/OWNERS OF COMMERCIAL OR RESIDENTIAL DRIVES TO BE CLOSED AND COORDINATE THE CLOSURE AT LEAST 48 HOURS BEFORE THE CLOSURE BEGINS (SIMPLY LEAVING A WRITTEN NOTICE OR PHONE MESSAGE IS NOT SUFFICIENT). COORDINATE ALTERNATE ACCESS TO RESIDENTIAL PROPERTIES WITH THE OWNER/OCCUPANT.

LANES OPEN DURING HOLIDAYS AND SPECIAL EVENTS

NO WORK SHALL BE PERFORMED AND THE SAME NUMBER OF LANES AS WERE AVAILABLE AT THE START OF THE PROJECT SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS AND EVENTS:

HOLIDAYS

CHRISTMAS	NEW YEAR'S EVE
LABOR DAY	THANKSGIVING

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

DAY OF HOLIDAY	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00 NOON FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00 NOON FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00 NOON MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00 NOON TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00 NOON WEDNESDAY THROUGH 6:00 AM FRIDAY
THANKSGIVING	5:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00 NOON THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00 NOON FRIDAY THROUGH 6:00 AM MONDAY

LANES OPEN DURING HOLIDAYS AND SPECIAL EVENTS (CONTINUED)

SPECIAL EVENTS

LANE OR SHOULDER CLOSURES ARE NOT PERMITTED DURING THE FARM SCIENCE REVIEW 5AM-10PM DAILY SEPT. 20-22, 2022 ON THE FOLLOWING ROUTES:

I-70 BETWEEN SR 54 (CLARK COUNTY) AND SR 142
 SR 38 BETWEEN SR 29 AND US 42
 SR 56 BETWEEN HOUSTON PIKE AND US 42
 US 40 BETWEEN SR 54 (CLARK COUNTY) AND SR 142
 US 42 BETWEEN SR 38 AND SR 29
 SR 29 BETWEEN I-70 AND SR 187

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$100 FOR EACH MINUTE THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

COORDINATION WITH ADJACENT PROJECTS

THE CONTRACTOR SHALL COORDINATE WORK WITH ODOT AND THE CONTRACTORS ON THE ADJACENT PROJECTS. PID: 113419, PID: 109072, PID: 112853 AND PID: 103819. COORDINATION SHALL BE MADE TO PREVENT CONFLICTING ADVANCE WARNING SIGNS, CONFLICTING DETOUR ROUTES, OVERLAPING/CONFLICTING LANE CLOSURES, AND TO ENSURE THAT A MINIMUM DISTANCE OF 2 MILES BETWEEN ADJACENT LANE CLOSURES IS MAINTAINED. THIS IS NOT AN EXHAUSTIVE LIST OF COORDINATION ITEMS THAT MAY NEED TO BE RESOLVED BETWEEN PROJECTS. THE DEPARTMENT RESERVES THE RIGHT TO DECIDE WHICH PROJECT'S ACTIVITIES TAKE PRECEDENCE. PROJECTS THAT HAVE ACTIVITIES DELAYED DUE TO CONFLICTS WILL CONSIDER THIS AN EXCUSABLE, NON-COMPENSABLE DELAY PER 108.06.B. ON PROJECTS THAT HAVE ACTIVITIES DELAYED DUE TO CONFLICTS WHERE THE CONTRACTOR FAILED TO MEET THE NOTIFICATION REQUIREMENTS, THE DELAYS SHALL NOT BE CONSIDERED EXCUSABLE OR COMPENSABLE.

ATTENDANCE AT DEPARTMENT ORDERED TRAFFIC COORDINATION MEETINGS BETWEEN ADJACENT PROJECTS SHALL BE CONSIDERED MANDATORY FOR EACH PROJECT'S SUPERINTENDENT AND WORKSITE TRAFFIC SUPERVISOR (WTS)*, AND INCIDENTAL TO THE LUMP SUM MAINTENANCE OF TRAFFIC PAYMENT ITEM

*IF REQUIRED BY THE PROJECT

RIGHT OF WAY PERMITS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS IN ADVANCE OF ANY WORK BEING DONE IN ALL LOCAL AGENCIES RIGHT OF WAY BY THE CONTRACTOR OR SUB-CONTRACTORS AS REQUIRED BY CMS 107.02 TO INSTALL MAINTENANCE OF TRAFFIC SIGNING OR ANY MAINTENANCE OF TRAFFIC RELATED WORK.

TRUCK MOUNTED ATTENUATOR (TMA) - TWO LANE ROADS

WHEN WORKING IN A CLOSED LANE OR SHOULDER ON A TWO-LANE HIGHWAY WITHOUT TEMPORARY OR PERMANENT TRAFFIC BARRIERS SEPARATING THE WORK AREA FROM THE TRAVELED LANE, A TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE PROVIDED TO PROTECT EACH WORK AREA IN ACCORDANCE WITH OMUTCD TYPICAL APPLICATION (TA) 4, TA-6 AND TA-17, ALONG WITH STANDARD CONSTRUCTION DRAWING (SCD) MT-97.10. THE TMA SHALL BE PLACED IN SUCH A WAY TO ADEQUATELY PROTECT THE WORKERS INSIDE THE WORK ZONE. THE TMA IS NOT INTENDED TO BE USED AS OR SUBSTITUTED FOR FLAGGERS AND/OR WARNING SIGNS AND DEVICES. FURNISH A TMA THAT IS NCHRP-350 (MANUFACTURED PRIOR TO 1/1/20) OR MASH TL-3 COMPLIANT. THE COST FOR PROVIDING THE TMA SHALL INCLUDE ALL MATERIAL, LABOR, EQUIPMENT, AND HARDWARE REPLACEMENT AND IS TO BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

USE OF STANDARD DRAWINGS

FOR THE PURPOSE OF THIS PROJECT, "MOVING OPERATION" SHALL BE LIMITED TO PAVEMENT MARKING STRIPING.

IT MAY BE NECESSARY TO EXTEND THE ADVANCE WARNING AND BUFFER ZONES BEYOND THE MINIMUM DISTANCES SHOWN ON THE STANDARD DRAWINGS. THIS MAY BE DUE TO HORIZONTAL ALIGNMENT, VERTICAL ALIGNMENT, RAMP LOCATIONS, OR OTHER SIGHT OBSTRUCTIONS. LOCATIONS OF THE TAPER ZONES MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER, BUT TAPER LENGTHS MUST MEET THE MINIMUM STANDARDS. TAPERS SHOULD BE PLACED IN TANGENT SECTIONS WHENEVER POSSIBLE. ADDITIONAL YIELD SIGNS MAY BE REQUIRED FOR RAMP WITHIN 1,000 FEET OF A WORK ZONE. PAYMENT SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM - 614 MAINTAINING TRAFFIC.

FOR MULTILANE HIGHWAY, DEVICE SPACING SHALL BE A MAXIMUM OF 40' CENTER ON CENTER IN THE TAPERS AND 80' CENTER TO CENTER IN THE TANGENT SECTIONS.

PUBLIC OUTREACH AND NOTIFICATION (PROJECTS)

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE DISTRICT 6 PUBLIC INFORMATION OFFICE VIA EMAIL AT D06.PIO@DOT.OHIO.GOV TO COORDINATE EFFORTS TO NOTIFY ADJACENT RESIDENTS AND BUSINESSES OF THE UPCOMING PROJECT. ADVANCE NOTIFICATION SHALL OCCUR NO LATER THAN FOURTEEN (14) DAYS PRIOR TO THE FIRST DAY OF WORK. ALL NOTIFICATIONS SHALL BE MADE UTILIZING THE TEMPLATE PROVIDED BY THE DISTRICT 6 PUBLIC INFORMATION OFFICE.

ITEM 614 - MAINTENANCE OF TRAFFIC: PAYMENT

NO ADDITIONAL COMPENSATION SHALL BE MADE BEYOND THE QUANTITIES LISTED ABOVE. ANY OTHER WORK SHALL BE PAID UNDER THE LUMP SUM PAY ITEM FOR ITEM 614 - MAINTAINING TRAFFIC

SEQUENCE OF CONSTRUCTION

PHASE 1

1. MAINTAIN TWO-LANE, TWO-DIRECTIONAL TRAFFIC ON THE EXISTING PAVEMENT OF SR 29.
2. ERECT THE TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED TO CLOSE AND DETOUR THE NORTH AND SOUTH LEGS OF SR 38. CLOSURE OF SR 38 IN PHASE 1 PLUS THE CLOSURE IN PHASE 2 IN TOTAL SHALL NOT EXCEED 70 CALENDAR DAYS.
3. CONSTRUCT PHASE 1 ITEMS. THIS INCLUDES BUT IS NOT LIMITED TO THE MAD-38-2153 CULVERT EXTENSION, PORTIONS OF THE EROSION AND SEDIMENT CONTROL MEASURES, LIGHTING, DRAINAGE, ROADWAY, CURB AND GUTTER, SPLITTER ISLANDS, TRUCK APRONS, GRADING AND TRAFFIC CONTROL ITEMS.
4. PERMANENT PAVEMENT SHALL BE CONSTRUCTED THROUGH THE SURFACE COURSE. PLACE PERMANENT PAVEMENT MARKINGS.

PHASE 2

1. MAINTAIN THE TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED TO CLOSE AND DETOUR THE NORTH AND SOUTH LEGS OF SR 38. TOTAL CLOSURE TIME OF SR 38 COMBINED IN PHASE 1 AND PHASE 2 SHALL NOT EXCEED 70 CONSECUTIVE CALENDER DAYS.
2. ERECT THE TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED TO CLOSE AND DETOUR THE EAST AND WEST LEGS OF SR 29. CLOSURE OF SR 29 SHALL NOT EXCEED 50 CONSECUTIVE CALENDAR DAYS.
3. CONSTRUCT PHASE 2 ITEMS. THIS INCLUDES BUT IS NOT LIMITED TO THE MAD-29-0600 CULVERT REPLACEMENT, PORTIONS OF THE EROSION AND SEDIMENT CONTROL MEASURES, LIGHTING, DRAINAGE, ROADWAY, CURB AND GUTTER, SPLITTER ISLANDS, TRUCK APRONS, GRADING, AND TRAFFIC CONTROL ITEMS.
4. PHASE 2 WORK SHALL ALSO INCLUDE REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES:
 - 4.a. COMPLETE THE FINE GRADING OF SEEDED AREAS AND INSTALL PERMANENT SEEDING AND MULCHING.
 - 4.b. ONCE FINAL SEEDING HAS BEEN ESTABLISHED, REMOVE TEMPORARY EROSION CONTROL MEASURES.
 - 4.c. CLEAN ALL SEDIMENT FROM BASIN, UNDERDRAINS, AND DRAINAGE STRUCTURES.
5. PORTIONS OF PHASE 2 CONSTRUCTION SHALL BE CONCURRENT WITH PORTIONS OF PHASE 1 CONSTRUCTION.
6. PERMANENT PAVEMENT SHALL BE CONSTRUCTED THROUGH THE SURFACE COURSE. PLACE PERMANENT PAVEMENT MARKINGS.
7. COMPLETE ALL REMAINING ITEMS.

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SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
9	10	17	20	64	65	66	67	74	01/SAF/PV	02/SAF/BR								
PAVEMENT																		
			1,919						1,919		301	46000	1,919	CY	ASPHALT CONCRETE BASE, PG64-22			
			1,819						1,819		304	20001	1,819	CY	AGGREGATE BASE, AS PER PLAN	7		
			1,414						1,414		407	20000	1,414	GAL	NON-TRACKING TACK COAT			
			345						345		442	10000	345	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)			
		609							609		452	13010	609	SY	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P			
			2,068						2,068		609	12000	2,068	FT	COMBINATION CURB AND GUTTER, TYPE 2			
			170						170		609	12001	170	FT	COMBINATION CURB AND GUTTER, TYPE 2, AS PER PLAN	7		
			404						404		609	28001	404	FT	CURB, TYPE 7, AS PER PLAN	7		
			352						352		609	31000	352	FT	COMBINATION CURB AND GUTTER, TYPE 9			
			804						804		609	72000	804	SY	CONCRETE MEDIAN			
									459		861	11100	459	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)			
LIGHTING																		
								36	36		625	00450	36	EACH	CONNECTION, FUSED PULL APART			
								6	6		625	00480	6	EACH	CONNECTION, UNFUSED PERMANENT			
								12	12		625	10490	12	EACH	LIGHT POLE, CONVENTIONAL, DESIGN AT15B40			
								12	12		625	14100	12	EACH	LIGHT POLE FOUNDATION, 24" X 8' DEEP			
								1,095	1,095		625	23200	1,095	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE			
								1,728	1,728		625	23410	1,728	FT	NO. 12 AWG POLE AND BRACKET CABLE			
								1,510	1,510		625	24324	1,510	FT	1-1/2" DUCT CABLE WITH THREE NO. 6 AWG 2400 VOLT CABLES			
								335	335		625	25500	335	FT	CONDUIT, 3", 725.04			
								12	12		625	26253	12	EACH	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (IES-II, LED, 9,000-12,000 LUMENS)	73		
								1,481	1,481		625	29002	1,481	FT	TRENCH, 24" DEEP			
								3	3		625	30700	3	EACH	PULL BOX, 725.08, 18"			
								12	12		625	32000	12	EACH	GROUND ROD			
								1	1		625	34001	1	EACH	POWER SERVICE, AS PER PLAN	73		
								1,481	1,481		625	36010	1,481	FT	UNDERGROUND WARNING/MARKING TAPE			
TRAFFIC CONTROL																		
							46		46		621	54000	46	EACH	RAISED PAVEMENT MARKER REMOVED			
			106	245.5	277				628.5		630	02100	628.5	FT	GROUND MOUNTED SUPPORT, NO. 2 POST			
			60	90	150				300		630	03100	300	FT	GROUND MOUNTED SUPPORT, NO. 3 POST			
			17.5	53	35.5				106		630	04100	106	FT	GROUND MOUNTED SUPPORT, NO. 4 POST, TYPE S (SQUARE POST)			
				4	4				8		630	08600	8	EACH	SIGN POST REFLECTOR			
			83.51	179.25	179.24				442		630	80100	442	SF	SIGN, FLAT SHEET			
			50						50		630	84900	50	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL			
			1						1		630	85100	1	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION			
			38						38		630	86002	38	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL			
							0.84		0.84		644	00104	0.84	MILE	EDGE LINE, 6"			
							0.36		0.36		644	00300	0.36	MILE	CENTER LINE			
							4		4		644	01410	4	EACH	WORD ON PAVEMENT, 96"			
							162		162		644	01510	162	FT	DOTTED LINE, 6"			
							64		64		644	20800	64	FT	YIELD LINE			
LANDSCAPING																		
									LS		SPECIAL	69098400	LS		CENTER ISLAND SURFACE TREATMENT	8		
MAINTENANCE OF TRAFFIC																		
	100								100		254	01000	100	SY	PAVEMENT PLANING, ASPHALT CONCRETE (1 1/2" DEPTH)			
	50								50		301	46000	50	CY	ASPHALT CONCRETE BASE, PG64-22			
	100								100		407	20000	100	GAL	NON-TRACKING TACK COAT			
	200								200		441	50000	200	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22			
		40							40		614	11110	40	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE			
									LS		614	12420	LS		DETOUR SIGNING			
	50								50		614	13000	50	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC			
	16								16		614	18601	16	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	9		
	72								72		616	10000	72	MGAL	WATER			
	200								200		617	10100	200	CY	COMPACTED AGGREGATE			
	10								10		617	25000	10	MGAL	WATER			
	0.5								0.5		642	00300	0.5	MILE	CENTER LINE, TYPE 1			

GENERAL SUMMARY

MAD - 29 - 5.87

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SHEET NUM.										PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
								79	86	01/SAF/PV	02/SAF/BR						
STRUCTURE OVER 20 FOOT SPAN (MAD-29-0600)																	
										LS		202	11000	LS		STRUCTURE REMOVED	
										LS		503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
										LS		503	21300	LS		UNCLASSIFIED EXCAVATION	
								6,506		6,506		509	10000	6,506	LB	EPOXY COATED REINFORCING STEEL	
								14		14		511	46011	14	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN	78
								48		48		511	46510	48	CY	CLASS QC1 CONCRETE, FOOTING	
								2		2		511	46610	2	CY	CLASS QC1 CONCRETE, HEADWALL	
								83		83		512	10100	83	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
								341		341		512	33000	341	SY	TYPE 2 WATERPROOFING	
								38		38		516	13600	38	SF	1" PREFORMED EXPANSION JOINT FILLER	
								11		11		518	21200	11	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
								78		78		611	96496	78	FT	20' X 6' CONDUIT, TYPE A, 706.05	
										LS		878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	
STRUCTURE OVER 20 FOOT SPAN (MAD-38-2153)																	
										LS		202	11201	LS		PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	85
										LS		503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
										LS		503	21300	LS		UNCLASSIFIED EXCAVATION	
										3,246		509	10000	3,246	LB	EPOXY COATED REINFORCING STEEL	
										7		511	46011	7	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN	85
										24		511	46510	24	CY	CLASS QC1 CONCRETE, FOOTING	
										1		511	46610	1	CY	CLASS QC1 CONCRETE, HEADWALL	
										44		512	10100	44	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
										211		512	33000	211	SY	TYPE 2 WATERPROOFING	
										19		516	13600	19	SF	1" PREFORMED EXPANSION JOINT FILLER	
										5		518	21200	5	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
										44		611	96496	44	FT	20' X 6' CONDUIT, TYPE A, 706.05	
										LS		878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	
INCIDENTALS																	
										LS		614	11000	LS		MAINTAINING TRAFFIC	
										4		619	16010	4	MNTH	FIELD OFFICE, TYPE B	
										LS		623	10001	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN	8
										LS		624	10000	LS		MOBILIZATION	

GENERAL SUMMARY

MAD-29-5.87



STORMWATER SITE PLAN

MAD-29-5.87

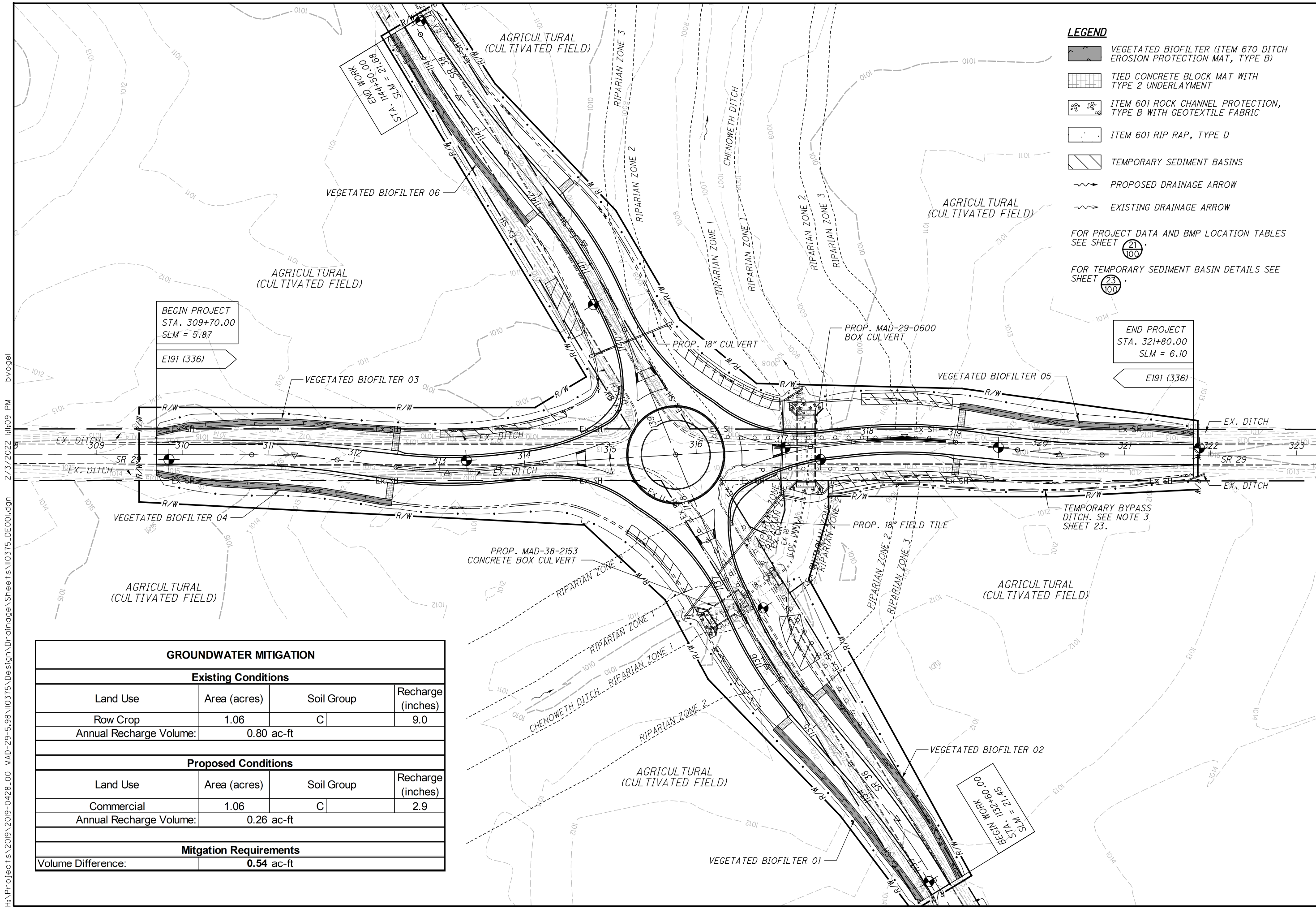
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LEGEND

- VEGETATED BIOFILTER (ITEM 670 DITCH EROSION PROTECTION MAT, TYPE B)
- TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT
- ITEM 601 ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC
- ITEM 601 RIP RAP, TYPE D
- TEMPORARY SEDIMENT BASINS
- PROPOSED DRAINAGE ARROW
- EXISTING DRAINAGE ARROW

FOR PROJECT DATA AND BMP LOCATION TABLES SEE SHEET 21/100

FOR TEMPORARY SEDIMENT BASIN DETAILS SEE SHEET 23/100



BEGIN PROJECT
STA. 309+70.00
SLM = 5.87

E191 (336)

END PROJECT
STA. 321+80.00
SLM = 6.10

E191 (336)

GROUNDWATER MITIGATION			
Existing Conditions			
Land Use	Area (acres)	Soil Group	Recharge (inches)
Row Crop	1.06	C	9.0
Annual Recharge Volume:	0.80 ac-ft		
Proposed Conditions			
Land Use	Area (acres)	Soil Group	Recharge (inches)
Commercial	1.06	C	2.9
Annual Recharge Volume:	0.26 ac-ft		
Mitigation Requirements			
Volume Difference:	0.54 ac-ft		

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TEMPORARY SEDIMENT BASIN 001 & DRAINAGE AREA 001
 DISTURBED AREA TRIBUTARY TO POND = 0.67 ACRES
 TOTAL DRAINAGE AREA TRIBUTARY TO POND = 0.67 ACRES
 DEWATERING ZONE VOLUME SIZING = (134 CY/AC) = 90 CY
 SEDIMENT STORAGE VOLUME SIZING = (37 CY/AC) = 25 CY
 APPROXIMATE DIMENSIONS: L 150' x W 14'
 APPROXIMATE BEGIN STATION = 313+00
 APPROXIMATE SPILLWAY STATION = 314+50
 APPX. TOP OF SED. STORAGE ELEV. = 1008.30'
 TOP OF SPILLWAY ELEV. = 1009.25'
 TOP OF PIPE RISER ELEV. = 1009.25'

TEMPORARY SEDIMENT BASIN 002 & DRAINAGE AREA 002
 DISTURBED AREA TRIBUTARY TO POND = 0.74 ACRES
 TOTAL DRAINAGE AREA TRIBUTARY TO POND = 0.74 ACRES
 DEWATERING ZONE VOLUME SIZING = (134 CY/AC) = 99 CY
 SEDIMENT STORAGE VOLUME SIZING = (37 CY/AC) = 27 CY
 APPROXIMATE DIMENSIONS: L 110' x W 13'
 APPROXIMATE BEGIN STATION = 315+20
 APPROXIMATE SPILLWAY STATION = 1137+00
 APPX. TOP OF SED. STORAGE ELEV. = 1009.10'
 TOP OF SPILLWAY ELEV. = 1010.55'
 TOP OF PIPE RISER ELEV. = 1010.55'

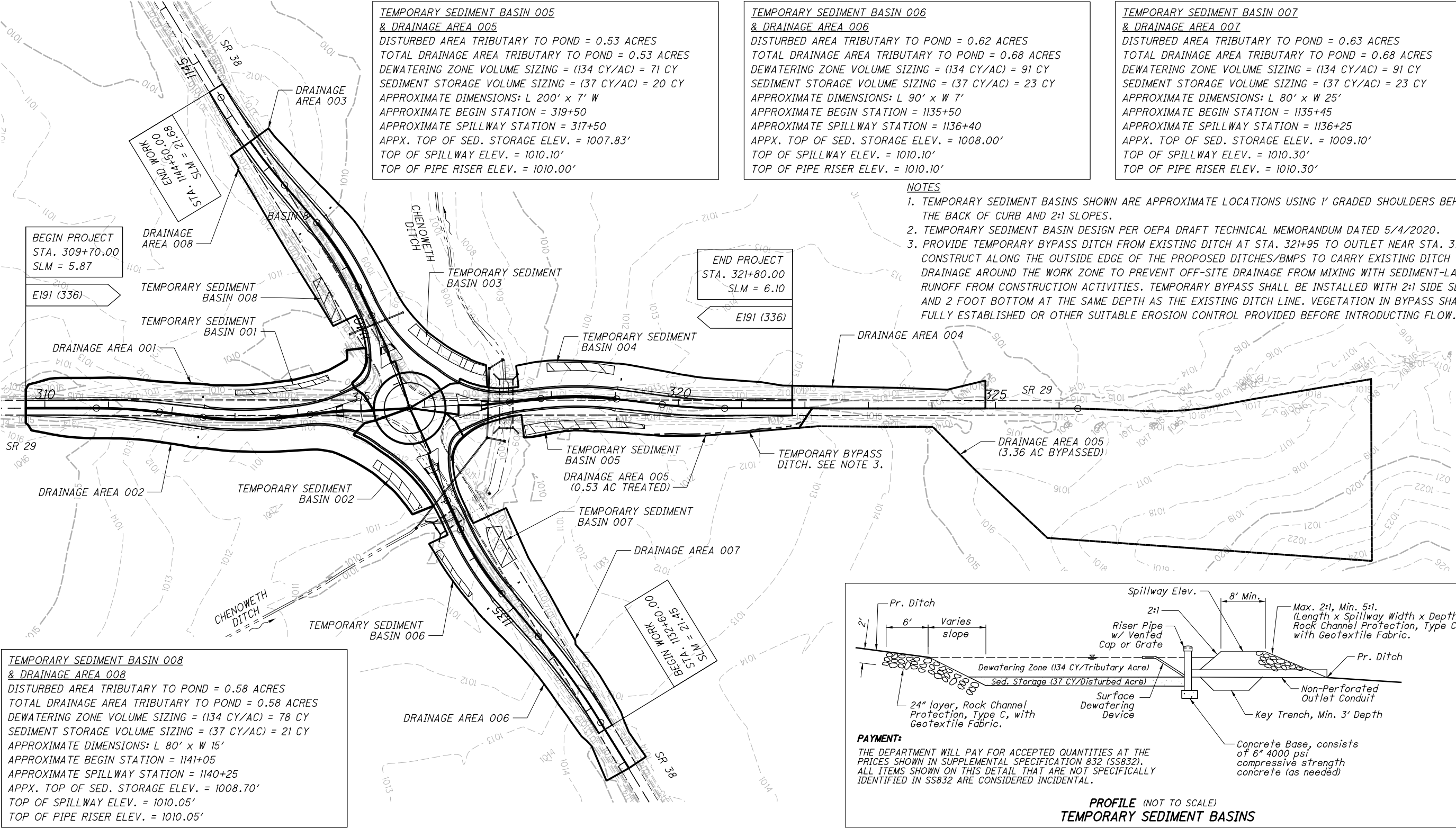
TEMPORARY SEDIMENT BASIN 003 & DRAINAGE AREA 003
 DISTURBED AREA TRIBUTARY TO POND = 0.66 ACRES
 TOTAL DRAINAGE AREA TRIBUTARY TO POND = 0.66 ACRES
 DEWATERING ZONE VOLUME SIZING = (134 CY/AC) = 88 CY
 SEDIMENT STORAGE VOLUME SIZING = (37 CY/AC) = 24 CY
 APPROXIMATE DIMENSIONS: L 130' x W 15'
 APPROXIMATE BEGIN STATION = 1139+70
 APPROXIMATE SPILLWAY STATION = 317+00
 APPX. TOP OF SED. STORAGE ELEV. = 1007.50'
 TOP OF SPILLWAY ELEV. = 1008.50'
 TOP OF PIPE RISER ELEV. = 1008.50'

TEMPORARY SEDIMENT BASIN 004 & DRAINAGE AREA 004
 DISTURBED AREA TRIBUTARY TO POND = 0.61 ACRES
 TOTAL DRAINAGE AREA TRIBUTARY TO POND = 0.85 ACRES
 DEWATERING ZONE VOLUME SIZING = (134 CY/AC) = 114 CY
 SEDIMENT STORAGE VOLUME SIZING = (37 CY/AC) = 23 CY
 APPROXIMATE DIMENSIONS: L 100' x W 12'
 APPROXIMATE BEGIN STATION = 319+00
 APPROXIMATE SPILLWAY STATION = 318+00
 APPX. TOP OF SED. STORAGE ELEV. = 1008.10'
 TOP OF SPILLWAY ELEV. = 1010.10'
 TOP OF PIPE RISER ELEV. = 1010.10'

TEMPORARY SEDIMENT BASIN 005 & DRAINAGE AREA 005
 DISTURBED AREA TRIBUTARY TO POND = 0.53 ACRES
 TOTAL DRAINAGE AREA TRIBUTARY TO POND = 0.53 ACRES
 DEWATERING ZONE VOLUME SIZING = (134 CY/AC) = 71 CY
 SEDIMENT STORAGE VOLUME SIZING = (37 CY/AC) = 20 CY
 APPROXIMATE DIMENSIONS: L 200' x 7' W
 APPROXIMATE BEGIN STATION = 319+50
 APPROXIMATE SPILLWAY STATION = 317+50
 APPX. TOP OF SED. STORAGE ELEV. = 1007.83'
 TOP OF SPILLWAY ELEV. = 1010.10'
 TOP OF PIPE RISER ELEV. = 1010.00'

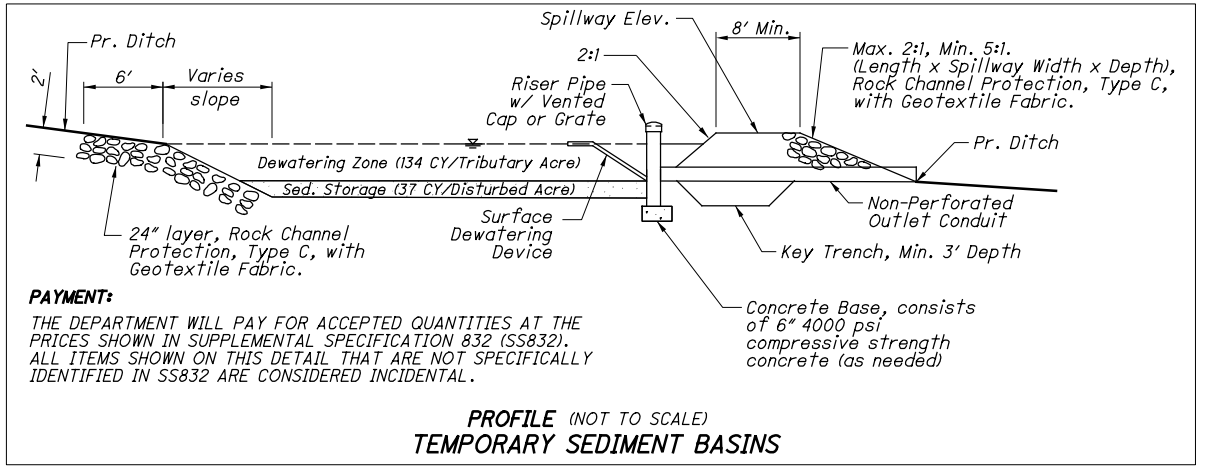
TEMPORARY SEDIMENT BASIN 006 & DRAINAGE AREA 006
 DISTURBED AREA TRIBUTARY TO POND = 0.62 ACRES
 TOTAL DRAINAGE AREA TRIBUTARY TO POND = 0.68 ACRES
 DEWATERING ZONE VOLUME SIZING = (134 CY/AC) = 91 CY
 SEDIMENT STORAGE VOLUME SIZING = (37 CY/AC) = 23 CY
 APPROXIMATE DIMENSIONS: L 90' x W 7'
 APPROXIMATE BEGIN STATION = 1135+50
 APPROXIMATE SPILLWAY STATION = 1136+40
 APPX. TOP OF SED. STORAGE ELEV. = 1008.00'
 TOP OF SPILLWAY ELEV. = 1010.10'
 TOP OF PIPE RISER ELEV. = 1010.10'

TEMPORARY SEDIMENT BASIN 007 & DRAINAGE AREA 007
 DISTURBED AREA TRIBUTARY TO POND = 0.63 ACRES
 TOTAL DRAINAGE AREA TRIBUTARY TO POND = 0.68 ACRES
 DEWATERING ZONE VOLUME SIZING = (134 CY/AC) = 91 CY
 SEDIMENT STORAGE VOLUME SIZING = (37 CY/AC) = 23 CY
 APPROXIMATE DIMENSIONS: L 80' x W 25'
 APPROXIMATE BEGIN STATION = 1135+45
 APPROXIMATE SPILLWAY STATION = 1136+25
 APPX. TOP OF SED. STORAGE ELEV. = 1009.10'
 TOP OF SPILLWAY ELEV. = 1010.30'
 TOP OF PIPE RISER ELEV. = 1010.30'



- NOTES**
1. TEMPORARY SEDIMENT BASINS SHOWN ARE APPROXIMATE LOCATIONS USING 1' GRADED SHOULDERS BEHIND THE BACK OF CURB AND 2:1 SLOPES.
 2. TEMPORARY SEDIMENT BASIN DESIGN PER OEPA DRAFT TECHNICAL MEMORANDUM DATED 5/4/2020.
 3. PROVIDE TEMPORARY BYPASS DITCH FROM EXISTING DITCH AT STA. 321+95 TO OUTLET NEAR STA. 317+40. CONSTRUCT ALONG THE OUTSIDE EDGE OF THE PROPOSED DITCHES/BMPS TO CARRY EXISTING DITCH DRAINAGE AROUND THE WORK ZONE TO PREVENT OFF-SITE DRAINAGE FROM MIXING WITH SEDIMENT-LADEN RUNOFF FROM CONSTRUCTION ACTIVITIES. TEMPORARY BYPASS SHALL BE INSTALLED WITH 2:1 SIDE SLOPES AND 2 FOOT BOTTOM AT THE SAME DEPTH AS THE EXISTING DITCH LINE. VEGETATION IN BYPASS SHALL BE FULLY ESTABLISHED OR OTHER SUITABLE EROSION CONTROL PROVIDED BEFORE INTRODUCING FLOW.

TEMPORARY SEDIMENT BASIN 008 & DRAINAGE AREA 008
 DISTURBED AREA TRIBUTARY TO POND = 0.58 ACRES
 TOTAL DRAINAGE AREA TRIBUTARY TO POND = 0.58 ACRES
 DEWATERING ZONE VOLUME SIZING = (134 CY/AC) = 78 CY
 SEDIMENT STORAGE VOLUME SIZING = (37 CY/AC) = 21 CY
 APPROXIMATE DIMENSIONS: L 80' x W 15'
 APPROXIMATE BEGIN STATION = 1141+05
 APPROXIMATE SPILLWAY STATION = 1140+25
 APPX. TOP OF SED. STORAGE ELEV. = 1008.70'
 TOP OF SPILLWAY ELEV. = 1010.05'
 TOP OF PIPE RISER ELEV. = 1010.05'



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SHEET NO.	LOCATION & REF. NO.			625	625	625	625	625	625	625	625	625	625	625	625								
				CONNECTION, FUSED PULL APART	CONNECTION, UNFUSED PERMANENT	LIGHT POLE, CONVENTIONAL (40' MOUNTING HEIGHT WITH 15' ARM) (AT15B40)	LIGHT POLE FOUNDATION, 24" X 8" DEEP	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE	NO. 12 AWG POLE AND BRACKET CABLE	1-1/2" DUCT CABLE WITH THREE NO. 6 AWG 2400 VOLT CABLES	CONDUIT, 3", 725.04	LUMINAIRE, CONVENTIONAL, SOLID STATE (LED), AS PER PLAN (IES-II, LED, 13,500-17,500 LUMENS)	TRENCH, 24" DEEP	PULL BOX, 725.08, 18"	GROUND ROD	POWER SERVICE, AS PER PLAN	UNDERGROUND WARNING/MARKING TAPE						
				EACH	EACH	EACH	EACH	FT	FT	FT	FT	EACH	FT	EACH	EACH	EACH	FT						
75	A-1	TO	A-2	3		1	1		144	158		1	148		1		148						
75	A-2	TO	PB-1	3		1	1		144	130		1	120		1		120						
75	A-10	TO	A-11	3		1	1		144	138		1	128		1		128						
75	A-11	TO	A-12	3		1	1		144	125		1	115		1		115						
75	A-12	TO	PB-1	3		1	1	366	144		112	1	112		1		112						
75	PS-1	TO	PB-1							51			41		1		41						
75	PB-1	TO	A-3		3					48			37	1			37						
75	A-3	TO	PB-2	3		1	1	408	144	136	126	1	126		1		126						
75	A-4	TO	A-5	3		1	1		144	140		1	130		1		130						
75	A-5	TO	PB-2	3		1	1		144	126		1	116		1		116						
75	PB-2	TO	A-6							20			10	1			10						
75	A-6	TO	PB-3	3		1	1	321	144	107	97	1	97		1		97						
75	A-9	TO	PB-3	3		1	1		144	73		1	63		1		63						
75	PB-3	TO	A-8		3					105			95	1			95						
75	A-8	TO	A-7	3		1	1		144	153		1	143		1		143						
75	A-7	TO	A-7	3		1	1		144			1			1								
TOTALS CARRIED TO GENERAL SUMMARY				36	6	12	12	1095	1728	1510	335	12	1481	3	12	1	1481						

LIGHTING SUBSUMMARY	CALCULATED			
	<table border="1"> <tr> <td style="text-align: center;">SWG</td> <td style="text-align: center;">BMV</td> </tr> <tr> <td style="text-align: center;">CHECKED</td> <td style="text-align: center;">BMV</td> </tr> </table>	SWG	BMV	CHECKED
SWG	BMV			
CHECKED	BMV			
MAD - 29 - 5.87	74 100			

ESTIMATED QUANTITIES					
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SHEET #
202	11000		LS	STRUCTURE REMOVED	
503	11100		LS	COFFERDAMS AND EXCAVATION BRACING	
503	21300		LS	UNCLASSIFIED EXCAVATION	
509	10000	6506	LB	EPOXY COATED REINFORCING STEEL	
511	46011	14	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN	2/7
511	46510	48	CY	CLASS QC1 CONCRETE, FOOTING	
511	46610	2	CY	CLASS QC1 CONCRETE, HEADWALL	
512	10100	83	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
512	33000	341	SY	TYPE 2 WATERPROOFING	
516	13600	38	SF	1" PREFORMED EXPANSION JOINT FILLER	
518	21200	11	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
611	96496	78	FT	20' X 6' CONDUIT, TYPE A, 706.05	
878	25000		LS	INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	

NOTE: ITEM 601 RIPRAP, TYPE D AND ITEM 601 ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC ARE INCLUDED WITH ROADWAY ITEMS FOR PAYMENT. TOTAL QUANTITIES CARRIED TO GENERAL SUMMARY SHEET

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ESTIMATED QUANTITIES					
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	SHEET #
202	11201		LS	PORTIONS OF STRUCTURE REMOVED, AS PER PLAN	2/6
503	11100		LS	COFFERDAMS AND EXCAVATION BRACING	
503	21300		LS	UNCLASSIFIED EXCAVATION	
509	10000	3246	LB	EPOXY COATED REINFORCING STEEL	
511	46011	7	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL NOT INCLUDING FOOTING, AS PER PLAN	2/6
511	46510	24	CY	CLASS QC1 CONCRETE, FOOTING	
511	46610	1	CY	CLASS QC1 CONCRETE, HEADWALL	
512	10100	44	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
512	33000	211	SY	TYPE 2 WATERPROOFING	
516	13600	19	SF	1" PREFORMED EXPANSION JOINT FILLER	
518	21200	5	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
611	96496	44	FT	20' X 6' CONDUIT, TYPE A, 706.05	
878	25000		LS	INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	

NOTE: ITEM 202 PIPE REMOVED, 24" AND UNDER, AS PER PLAN, ITEM 601 RIPRAP, TYPE D AND ITEM 601 ROCK CHANNEL PROTECTION, TYPE B WITH GEOTEXTILE FABRIC ARE INCLUDED WITH ROADWAY ITEMS FOR PAYMENT. TOTAL QUANTITIES CARRIED TO GENERAL SUMMARY SHEET.