

UTILITIES

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER OR ADJACENT TO THE WORK AREA.

ITEM SPECIAL - PIPE CLEANOUT

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER 105.16 AND 105.17. ALL SEWERS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CLEANOUT OF THE PIPE SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - PIPE CLEANOUT. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

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.

ITEM SPECIAL - RESEAL INFILTRATING JOINTS

THIS WORK CONSISTS OF SEALING THE ENTIRE PERIMETER OF EXISTING JOINTS IN THE ELLIPTICAL PIPE CULVERT THROUGH THE INSTALLATION OF EITHER AN ALL-WEATHER CONCRETE COMPATIBLE HYDROPHOBIC GROUT OR AN INTERNAL JOINT SEAL. JOINTS TO BE REPAIRED SHALL BE AT THE DIRECTION OF THE ENGINEER AND SHOULD SHOW VISIBLE SIGNS OF MOISTURE/WATER INFILTRATION. THE EXISTING JOINT SHALL BE CLEANED AND PREPARED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AND EITHER HYDROPHOBIC GROUT OR AN INTERNAL JOINT SEAL SHALL BE INSTALLED AS DIRECTED BY THE MANUFACTURER. PRIOR TO INTERNAL JOINT SEAL INSTALLATION, THE CONTRACTOR SHALL FILL THE VOIDES AND JOINT GAPS WITH GROUT UNTIL THE VOIDS ARE FILLED AND GAP IS FLUSH FROM ONE SECTION OF PIPE TO THE OTHER. THE CONTRACTOR WILL SECURE THE INVERVAL JOINT SEAL FIRMLY AGAINST ALL EDGES OF THE CONCRETE TO PREVENT ANY SOIL INFILTRATION.

THE INTERNAL JOINT SEAL SHALL BE COMPOSED OF EITHER MECHANICAL EXPANSION BANDS WITH LOCKING ASSEMBLY OR APPROVED EQUAL. ENSURE INTERNAL JOINT SEAL WILL EXTEND A MINIMUM OF 4 INCHES FROM EITHER SIDE OF THE JOINT OR GREATER AS SPECIFIED BY THE MANUFACTURER.

FOR THE PURPOSES OF THIS PLAN SET, IT HAS BEEN ASSUMED THAT 75 PERCENT OF THE JOINTS WILL REQUIRE REPAIR. SEE SHEET 7 FOR THE TOTAL JOINTS ESTIMATED TO BE REPAIRED FOR THIS PROJECT. THE COST OF CLEANING AND PREPARING THE JOINT IS INCLUDED IN THIS PAY ITEM.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PRIVATE USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT, AT MAXIMUM OPERATING HEIGHT, SHALL EXCEED A HEIGHT OF 75 FT. IF ANY TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, COORDINATION WITH THE AIRPORT OWNER AND THE ODOT OFFICE OF AVIATION WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. FOR PRIVATE USE AIRPORTS OR HELIPORTS, COORDINATE WITH THE AIRPORT OWNER AND THE ODOT OFFICE OF AVIATION. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT, UNTIL COORDINATION IS MET AND DOCUMENTATION HAS BEEN FURNISHED TO THE PROJECT ENGINEER. IF COORDINATION IS NOT OBTAINED, THEN THE PROJECT ENGINEER WILL HAVE THE AUTHORITY TO PROVIDE RESTRICTIONS AS REQUIRED.

GILMER AIRPORT
STEVE A. GILMER
RR 1
LEWISBURG, OH 45338
(513)-962-2810

SOLE SOURCE AQUIFER - PRE-70-14.82

THIS PROJECT (PRE-70-14.82) IS LOCATED IN OR NEAR A SOLE SOURCE AQUIFER. IN ORDER TO MINIMIZE THE POTENTIAL FOR CONTAMINATION, THE CONTRACTOR SHALL NOT PERFORM PROJECT RELATED FUELING AND VEHICLE MAINTENANCE ACTIVITIES WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL IMMEDIATELY TAKE STEPS TO MITIGATE ANY EVENT, SUCH AS A SPILL OF FUELS, OILS, OR CHEMICALS, THAT COULD THREATEN TO CONTAMINATE THE GROUNDWATER. IF THE SPILL IS A REPORTABLE AMOUNT (PER OHIO EPA'S RELEASE REPORTING REQUIREMENTS), THE CONTRACTOR SHALL CONTACT THE LEWISBURG FIRE DEPARTMENT AT 937-962-4640 OR THE OHIO EPA'S SPILLS HOTLINE 1-800-282-9378 FOR CLEAN-UP OF THE SPILL

DRINKING WATER SOURCE PRE-70-14.82

THIS PROJECT (PRE-70-14.82) IS LOCATED IN OR NEAR THE SOURCE OF A PUBLIC DRINKING WATER SUPPLY. IN ORDER TO MINIMIZE THE POTENTIAL TO CONTAMINATE THIS WATER SUPPLY, PROJECT RELATED REFUELING AND MAINTENANCE ACTIVITIES SHALL NOT BE PERFORMED WITHIN THE PROJECT AREA. THE CONTRACTOR SHALL IMMEDIATELY TAKE STEPS TO MITIGATE ANY EVENT, SUCH AS A SPILL OF FUELS, OILS, OR CHEMICALS, THAT COULD THREATEN TO CONTAMINATE THE DRINKING WATER SUPPLY. ANY SUCH SPILL OR EVENT SHALL BE REPORTED IMMEDIATELY TO JEFF SEWERT OF THE LEWISBURG WATER TREATMENT FACILITY AT 937-533-0567. IF THE SPILL IS A REPORTABLE AMOUNT, THE CONTRACTOR SHOULD CONTRACT THE LEWISBURG FIRE DEPARTMENT AT 937-962-4640 OR THE OHIO EPA'S SPILLS HOTLINE 1-800-282-9378 FOR CLEAN-UP OF THE SPILL.

COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN

COFFERDAMS AND EXCAVATION BRACING INSTALLED FOR THE PROJECT ARE FOR DEWATERING THE WORK AREA. COFFERDAMS AND EXCAVATION BRACING DESIGN, CONSTRUCTION, AND REIMBURSEMENT FOR DAMAGE IS BASED ON CMS 503. THE CONTRACTOR MUST COMPLY WITH THE IN-STREAM RESTRICTION IN THE SPECIAL PROVISIONS WATERWAY PERMIT.

IF THE CONTRACTOR WILL USE PUMPS TO DEWATER THE SITE, THEN THE CONTRACTOR WILL NEED TO SIZE THE PUMP(S) TO HANDLE TWICE THE HIGHEST MONTHLY FLOW WITHOUT PRODUCING A RISE IN THE BACKWATER ABOVE THE OHWM. ACCORDING TO STREAMSTATS, TWICE THE HIGHEST MONTHLY FLOW THAT NEEDS TO BYPASS THE DEWATERED WORK SITE ARE AS FOLLOWS:

PRE-70-09.59: 0.13 CFS
PRE-70-10.39: 2.08 CFS
PRE-70-14.82: 0.90 CFS

IF THE CONTRACTOR CHOOSES TO IMPACT THE STREAM DURING THE MONTHS OF APRIL THROUGH OCTOBER: ALL REQUIREMENTS OF CMS 503 APPLY, UNLESS STIPULATED ELSEWHERE IN THIS NOTE. THE REHABILITATION WORK REQUIRED IN THE PLANS MUST BE COMPLETED IN SECTIONS. THE LONGEST SECTION THAT CAN BE COMPLETED AT ONE TIME IS 300'. IF THE CONTRACTOR CHOOSES TO COMPLETE SECTIONS GREATER THAN 300' AT A TIME, THEN THE DEPARTMENT WILL ONLY REIMBURSE THE CONTRACTOR FOR RESULTING DAMAGE TO 300' OF WORK PROTECTED BY THE COFFERDAM, PROVIDED THE CONTRACTOR HAS EXERCISED DUE DILIGENCE AS DETERMINED BY THE ENGINEER.

IF THE CONTRACTOR CHOOSES TO IMPACT THE STREAM AT ANY TIME IN THE MONTHS OF NOVEMBER THROUGH MARCH: EVEN IF THE ACTUAL WATER ELEVATION EXCEEDS 3 FEET ABOVE THE STATED ORDINARY HIGH WATER MARK, THE DEPARTMENT WILL NOT REIMBURSE THE CONTRACTOR FOR RESULTING DAMAGE TO THE WORK PROTECTED BY THE COFFERDAM. ALL OTHER REQUIREMENTS OF CMS 503 APPLY.

ALL WORK ASSOCIATED WITH COFFERDAMS AND EXCAVATION BRACING, SHALL BE PAID FOR WITH THE COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN PAY ITEM.

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SEEDING AND MULCHING
1750 SQ. YD.

659, COMMERCIAL FERTILIZER
0.24 TON

659, LIME
0.36 ACRES

659, WATER
9.5 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

ENDANGERED BAT HABITAT REMOVAL

THIS PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS: A LIVE, DYING, OR DEAD WOODY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

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GENERAL NOTES

PRE IR70
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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 REQUIRED)

EXISTING STRUCTURE	
CFN	1808013
TYPE:	ELLIPTICAL
SIZE:	106" X 68", 210' LONG
SKEW:	18°
ALIGNMENT:	TANGENT
DATE BUILT:	1962
CONDITION:	FAIR
LATITUDE:	N 39° 50' 7"
LONGITUDE:	W 84° 37' 13.39"
OHWM:	EL. 1079 (2' ± ABOVE PIPE INVERT)

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.

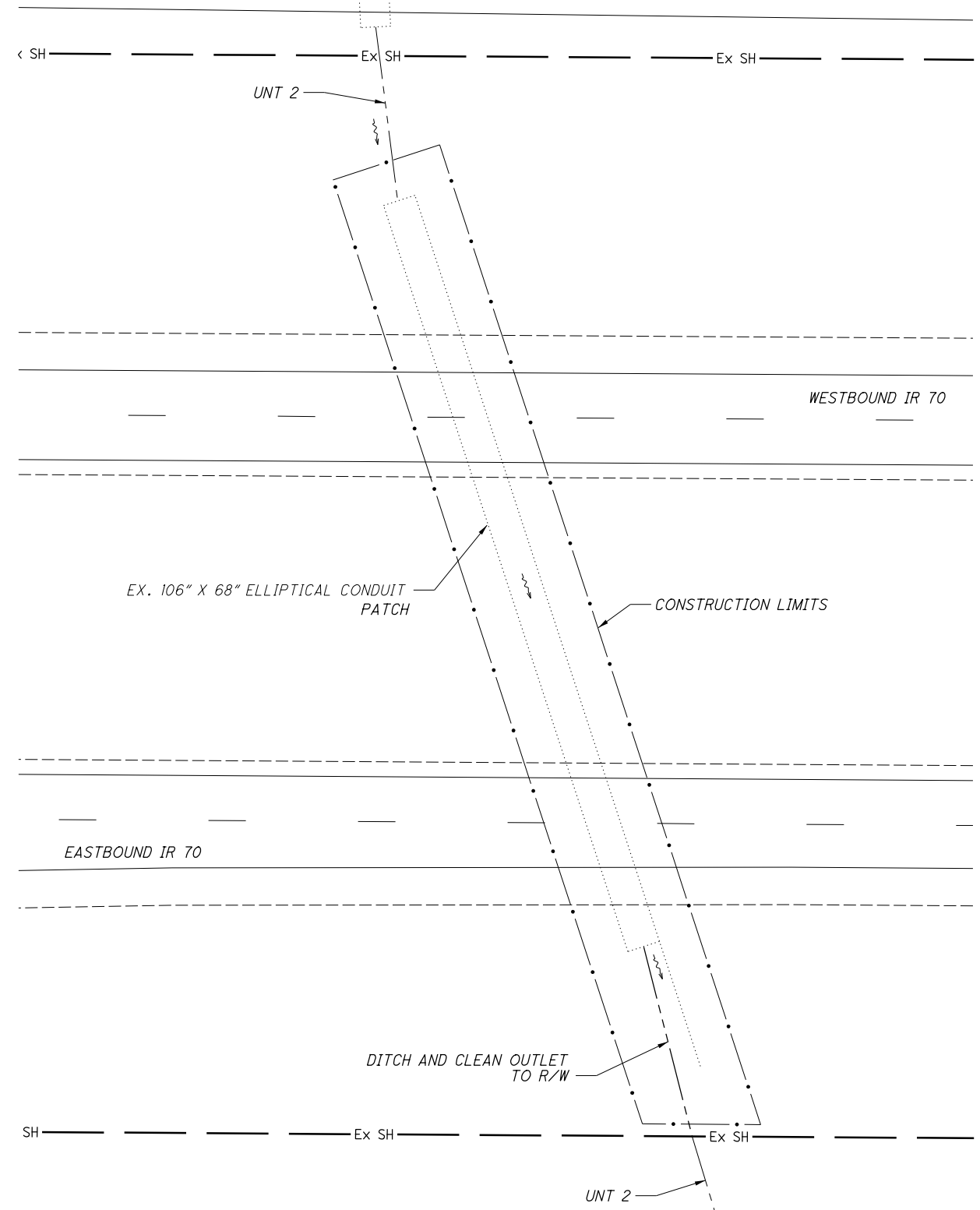
REHABILITATE CULVERT PRE-70-1039 BY PERFORMING THE FOLLOWING WORK:

- CLEAN CULVERT INTERIOR OF SEDIMENT AND DEBRIS.
- REPAIR SPALLED PORTIONS OF INTERIOR CONCRETE PIPE USING TROWELABLE MORTAR PER SUPPLEMENTAL SPECIFICATION 843.
- RESEAL INFILTRATING JOINTS.
- DITCH AND CLEAN OUTLET UP TP RIGHT-OF-WAY TO ALLOW POSITIVE DRAINAGE.

AREAS OF REPAIR

Section (From North)	Side	Location	Area	Section (From North)	Side	Location	Area
2	west	6' L x 4' W	24 sf	20	west	2 ea.	BOTTOM 2 sf
4	west	5 ea.	BOTTOM 5 sf		east	2 ea.	TOP 2 sf
	east	2 ea.	TOP 2 sf		east	2 ea.	BOTTOM 2 sf
	east	2 ea.	BOTTOM 2 sf	20	At the 20 & 21 jnt, 1' w x 2' l		2 sf
	east	2 ea.	TOP 2 sf	21	west	5 ea.	BOTTOM 5 sf
5	west	10 ea.	BOTTOM 10 sf	22	east	2' w x 4' l	BOTTOM 8 sf
	east	2 ea.	TOP 2 sf		west	3 ea.	TOP 3 sf
	east	5 ea.	BOTTOM 5 sf	23	east	1 ea.	BOTTOM 1 sf
6	east	3 ea.	BOTTOM 3 sf		east	1 ea.	TOP 1 sf
	east	2 ea.	TOP 2 sf	24	west	2' w x 2' l spall	BOTTOM 4 sf
7	west	2 ea.	BOTTOM 2 sf		east	1 ea. 2" depth spall	BOTTOM 1 sf
	east	1 ea.	TOP 1 sf		east	3' x 3' spall 1" depth	BOTTOM 9 sf
	east	5 ea.	BOTTOM 5 sf	25	west	4 ea.	BOTTOM 4 sf
8	west	4 ea.	BOTTOM 4 sf		east	2 ea.	TOP 2 sf
	east	1 ea.	TOP 1 sf		east	4 ea.	BOTTOM 4 sf
	east	4 ea.	BOTTOM 4 sf		east	2 ea.	TOP 2 sf
	east	2 ea.	TOP 2 sf	26	west	3 ea.	BOTTOM 3 sf
	At the 8 & 9 jnt, 2' W x 4' L top		10 sf		east	3 ea.	TOP 3 sf
9	At the 8 & 9 jnt., 8" w x 4' l top		16 sf		east	1 ea.	BOTTOM 1 sf
	3 ea.	BOTTOM 3 sf		27	west	3 ea.	BOTTOM 3 sf
	west	3 ea.	BOTTOM 3 sf		east	3 ea.	TOP 3 sf
10	west	3 ea.	BOTTOM 3 sf		east	3 ea.	TOP 3 sf
	east	5 ea.	BOTTOM 5 sf		east	2' x 2' spall	BOTTOM 4 sf
12	west	6 ea.	BOTTOM 6 sf	29	east	1' w x 2' l	BOTTOM 2 sf
	east	4 ea.	BOTTOM 4 sf	30	west	1' w x 5' l	SIDE 5 sf
13	west	3 ea.	BOTTOM 3 sf	31	east	6 ea.	BOTTOM 6 sf
	east	2 ea.	TOP 2 sf	34	west	1 ea.	BOTTOM 1 sf
15	west	3 ea.	BOTTOM 3 sf		east	2 ea.	SIDE 2 sf
	east	2 ea.	TOP 2 sf		east	4 ea.	BOTTOM 4 sf
	east	3 ea.	BOTTOM 3 sf		west	2 ea.	SIDE 2 sf
	east	2 ea.	TOP 2 sf	35	west	3 ea.	TOP 3 sf
16	west	1 ea.	BOTTOM 1 sf		east	3' x 3' spall	BOTTOM 9 sf
	east	4 ea.	TOP 4 sf		east	1 ea.	BOTTOM 1 sf
17	west	5 ea.	TOP 5 sf		3' x 3' spall	TOP 9 sf	
	east	2 ea.	BOTTOM 2 sf		1' w x 4' l spall	TOP 4 sf	
	east	2 ea.	TOP 2 sf	40	west	2 ea.	TOP 2 sf
18	west	4' w x 6' l	TOP 24 sf	41	west	2 ea.	TOP 2 sf

TOTAL AREA = 310 SF



ESTIMATED QUANTITIES (PRE-70-1039)			
ITEM	GRAND TOTAL	UNIT	DESCRIPTION
202E70130	210	FT	SPECIAL - PIPE CLEANOUT, 48" AND OVER
209E10000	50	FT	DITCH CLEANOUT
503	LS	LS	COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN
690E98000	31	EA	ITEM SPECIAL - RESEALING INFILTRATING JOINTS
843E50000	310	SF	PATCHING CONC. STRUCTURES WITH TROWABLE MORTAR



PRE-70-1039
CULVERT PLAN AND DETAIL

PRE IR70
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