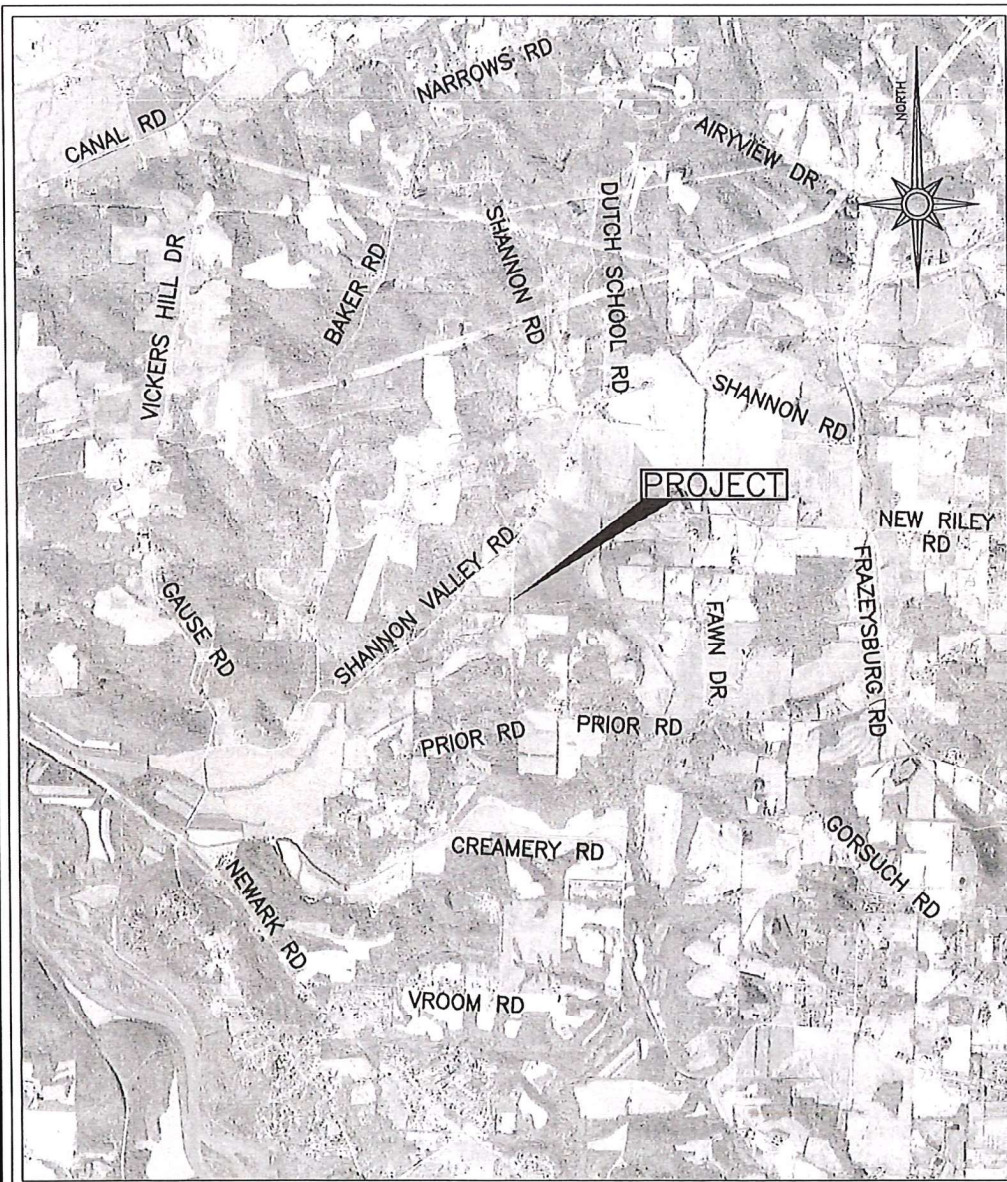


CRANBERRY LANE CULVERT REPLACEMENT

LICKING TOWNSHIP
MUSKINGUM COUNTY, OHIO

PROJECT DESCRIPTION
REPLACEMENT OF EXISTING 84-INCH DIAMETER CULVERT
WITH A 7 FT X 6 FT REINFORCED CONCRETE BOX CULVERT



INDEX OF SHEETS:

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UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

	8/15/2023
CINDY S. CAMERON, PRESIDENT MUSKINGUM COUNTY COMMISSIONER	DATE
	8/15/2023
MOLLIE S. CROOKS MUSKINGUM COUNTY COMMISSIONER	DATE
	8/15/2023
MELISSA J. BELL MUSKINGUM COUNTY COMMISSIONER	DATE



	8-21-23
MARK J. EICHER, PE, PS MUSKINGUM COUNTY ENGINEER	DATE

ALL SITE IMPROVEMENTS ARE SUBJECT TO APPROVAL BY THE PROJECT ENGINEER. THIS POLICY SHALL BE ADHERED TO THROUGHOUT THE LIFE OF THIS SITE IMPROVEMENT PROJECT. ANY AND ALL IMPROVEMENTS THAT ARE NOT APPROVED BY THE PROJECT ENGINEER SHALL BE REMOVED AND REPLACED AT THE DISCRETION OF THE PROJECT ENGINEER, AT NO FURTHER COST TO EITHER THE OWNERS OR THE PROJECT ENGINEER, BY THE CONTRACTOR PERFORMING SAID WORK.

Mark J. Eicher, P.E., P.S.
155 Reith Road
Zanesville, Ohio 43701
740-454-0155
Muskingum County ENGINEER'S OFFICE

PROJECT NAME	CRANBERRY LANE CULVERT REPLACEMENT
PROJECT LOCATION	LICKING TOWNSHIP MUSKINGUM COUNTY, OHIO
PLANS APPROVED BY	MJE
PLANS PREPARED BY	GJW
DATE	08/07/2023
REVISED	
SHEET SIZE	11" x 17"
SHEET NAME	TITLE SHEET
SHEET NUMBER	01 09

	LIGHT POLE		EXISTING FIRE HYDRANT		EXISTING GAS VALVE		EXISTING ELECTRIC RISER/PULL BOX		STOP CHECK VALVE
	LIGHT/POWER POLE		PROPOSED FIRE HYDRANT		PROPOSED GAS VALVE		PROPOSED ELECTRIC RISER/PULL BOX		EXISTING MAILBOX
	POWER POLE		EXISTING WATER GATE VALVE		EXISTING GAS SERVICE STOP		EXISTING ELECTRIC METER		PROPOSED MAILBOX
	POWER POLE		PROPOSED WATER GATE VALVE		PROPOSED GAS SERVICE STOP		PROPOSED ELECTRIC METER		MAILBOX
	TELECOM POLE		EXISTING WATER METER		EXISTING GAS LINE VENT		EXISTING ELECTRIC MANHOLE		EXISTING TREE
	LIGHT/TELECOM POLE		PROPOSED WATER METER		EXISTING SANITARY SEWER MANHOLE		PROPOSED ELECTRIC MANHOLE		EXISTING EVERGREEN TREE
	TELECOM/LIGHT/POWER POLE		EXISTING WATER MANHOLE		PROPOSED SANITARY SEWER MANHOLE		EXISTING TELECOM MANHOLE		EXISTING SHRUB
	UNKNOWN POLE		PROPOSED WATER MANHOLE		EXISTING SEPTIC TANK		PROPOSED TELECOM MANHOLE		EXISTING STONE FOUND
	SIGN POLE		EXISTING CATCH BASIN NO. 2 - 2B		PROPOSED SEPTIC TANK		EXISTING TELEPHONE PEDESTAL		EXISTING LARGE ROCK
	GUY WIRE ANCHOR		PROPOSED CATCH BASIN NO. 2 - 2B		EXISTING SEWER PUMP STATION		PROPOSED TELEPHONE PEDESTAL		GRINDER PUMP
	CELLPHONE TOWER		EXISTING GAS METER		EXISTING SANITARY SEWER VALVE		EXISTING UNKNOWN PULL BOX		SPRING DEVELOPED
	EXISTING TOWER		PROPOSED GAS METER		PROPOSED SANITARY SEWER VALVE		EXISTING UNKNOWN MANHOLE		SIGNAL PEDESTAL
	HALF HEADWALL		EXISTING GAS MANHOLE		EXISTING SANITARY SEWER LINE VENT		EXISTING UNKNOWN UTILITY VALVE		PRIVATE/PUBLIC SIGN
	HEADWALL		PROPOSED GAS MANHOLE		CLEAN OUT		PLUG VALVE		EXISTING SURVEY CONTROL

LINE TYPES

	PROPOSED WATER
	UNDERGROUND ELECTRIC
	UNDERGROUND TELECOM
	ABANDONED FORCEMAIN
	FORCEMAIN
	EXISTING UNDER DRAIN
	GAS LINE
	WATER LINE
	ELECTRIC LINE
	UTILITY LINE
	SANITARY LINE
	FENCE
	VEGETATION
	EXISTING FENCE
	EXISTING RIGHT OF WAY
	EXISTING LIMITED ACCESS
	EXISTING RAILROAD RIGHT OF WAY
	PROPOSED EASEMENT
	PROPOSED STORM LINE
	EXISTING STORM LINE
	EXISTING SIDEWALK
	SHOULDER AGGREGATE

PREPARED BY: **Mark J. Eicher, P.E., P.S.**
 155 Rehl Road
 Zanesville, Ohio 43701
Muskingum COUNTY ENGINEER'S OFFICE 740-454-0155

PROJECT NAME: **CRANBERRY LANE CULVERT REPLACEMENT SYMBOLS & LINE STYLES SHEET**
 PROJECT LOCATION: **LICKING TOWNSHIP MUSKINGUM COUNTY, OHIO**

PLANS APPROVED BY: **MJE**

PLANS PREPARED BY: **GJW**

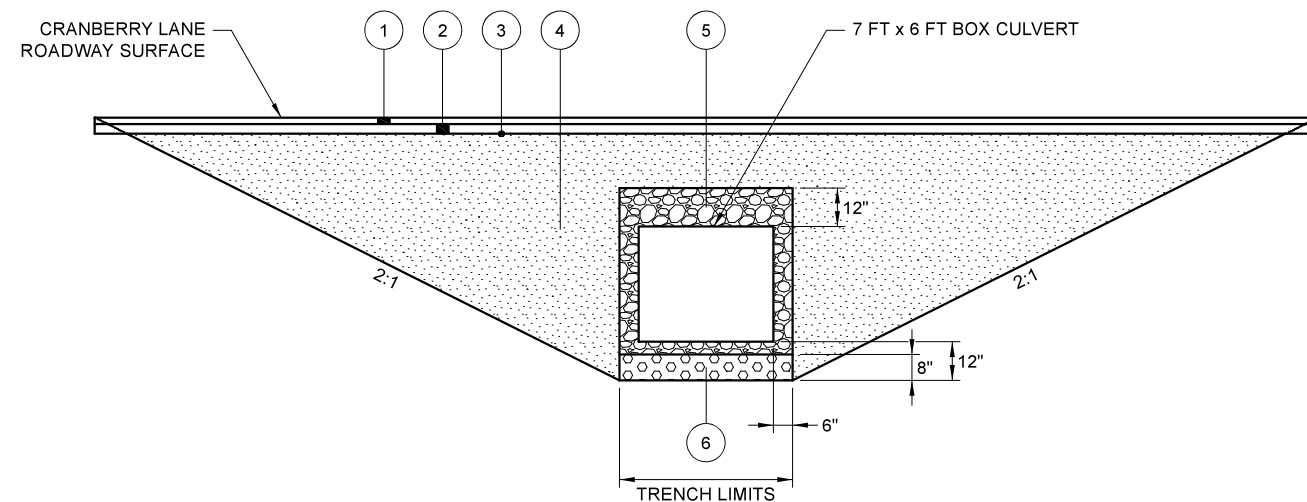
DATE: **08/07/2023**

REVISED:

SHEET SIZE: **11" x 17"**

SHEET NAME: **LEGEND SHEET**

SHEET NUMBER: **02 / 09**



LEGEND

- ① ITEM 441 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG64-22
ITEM 441 - 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (448), PG64-22
- ② ITEM 304 - 6" AGGREGATE BASE
- ③ ITEM 204 - SUBGRADE COMPACTION
- ④ ITEM 203 - BACKFILL (OUTSIDE OF TRENCH)
- ⑤ ITEM 203 - ROADWAY MISC., NO. 57 STONE BACKFILL (INSIDE OF TRENCH)
- ⑥ ITEM 203 - ROADWAY MISC., NO. 2 STONE BACKFILL (INSIDE OF TRENCH)

PAY ITEM NOTES

ITEM 202 - STRUCTURE REMOVED, AS PER PLAN

THIS ITEM SHALL CONSIST OF THE REMOVAL OF THE EXISTING CORRUGATED METAL PIPE.

ALL LABOR, EQUIPMENT, AND INCIDENTALS REQUIRED TO REMOVE THE EXISTING STRUCTURE SHALL BE INCLUDED IN ITEM 202 - STRUCTURE REMOVED, AS PER PLAN.

ITEM 203 - EMBANKMENT (FOR BACKFILL)

THE TRENCH SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL (NO. 57 STONE). THE STONE SHALL BE COMPACTED IN 8-INCH LIFTS FROM THE BOTTOM OF THE TRENCH TO A PLANE EVEN WITH THE FLOW LINE. ALL OTHER TRENCH BACKFILL SHALL BE COMPACTED IN 12-INCH LAYERS. COMPACTION SHALL BE TO AT LEAST THE DENSITY OF THE SURROUNDING GROUND. THE COST FOR ALL BACKFILL SHALL BE INCLUDED IN THE BID FOR ITEM 203 EMBANKMENT.

FINAL BACKFILL

FINAL BACKFILL SHALL BE OF A SUITABLE MATERIAL REMOVED FROM EXCAVATION EXCEPT WHERE OTHER MATERIAL IS SPECIFIED. DEBRIS, FROZEN MATERIAL, LARGE CLOUDS OR STONES, ORGANIC MATTER, OR OTHER UNSTABLE MATERIALS SHALL NOT BE USED FOR FINAL BACKFILL.

SEEDING AND MULCHING

PERMANENT SEEDING SHALL BE PROVIDED FOR ALL EXPOSED SOIL SURFACES WITHIN SEVEN (7) DAYS AFTER THE FINISH GRADE IS REACHED. PERMANENT SEEDING AND MULCHING, AS SPECIFIED IN ODOT ITEM 659, IS ACCEPTABLE.

AREAS WHERE PERMANENT SEEDING HAS FAILED TO GERMINATE AFTER 15 DAYS SHALL BE RESEED AND MULCHED AS NECESSARY TO ACHIEVE STABILIZATION.

ITEM 611 - 7 FT x 6 FT CONDUIT, TYPE A, 706.05, AS PER PLAN

THIS BID ITEM CONSISTS OF THE INSTALLATION OF A 4-SIDED PRECAST REINFORCED CONCRETE BOX CULVERT WITH A 7 FT SPAN AND A 6 FT RISE AT THE LOCATION SHOWN IN THE PLANS.

BOX CULVERT BEDDING SHALL CONSIST OF AN 8-INCH BASE OF NO. 2 STONE PLUS A 4-INCH LEVELING COURSE OF NO. 57 STONE BELOW THE BOTTOM OF THE BOX CULVERT. CONTRACTOR SHALL PROVIDE THE COUNTY ENGINEER WITH A 14 DAY NOTICE PRIOR TO COMMENCEMENT OF THE INSTALLATION OF THE BOX CULVERT.

ALL JOINTS SHALL BE SEALED WITH A FLEXIBLE PLASTIC MATERIAL CONFORMING TO AASHTO M-198 TYPE B. THE CROSS-SECTION OF THE JOINT SEALING MATERIAL SHALL HAVE A MINIMUM HEIGHT OF TWICE THE ANNULAR SPACE OF THE JOINT AND A MINIMUM WIDTH OF 150% THE HEIGHT. IF THE INSTALLATION TEMPERATURE IS LESS THAN 40 DEGREES FAHRENHEIT, THE JOINT SHALL BE PRIMED WITH A PRIMER RECOMMENDED BY THE MANUFACTURER.

GENERAL NOTES

THE CONTRACTOR SHALL NOTIFY THE COUNTY ENGINEER'S OFFICE, TELEPHONE (740) 454-0155 FORTY EIGHT (48) HOURS PRIOR TO COMMENCING WORK ON THE PROJECT, HOLIDAYS AND WEEKENDS EXCLUDED.

AT THE TIME OF THE BID OPENING EACH BIDDER WILL BE PRESUMED TO HAVE INSPECTED THE SITE AND TO HAVE READ AND TO BE THOROUGHLY FAMILIAR WITH THE PLANS AND CONTRACT DOCUMENTS.

ALL PROPERTY LINE MARKERS (IRON PINS, SPIKES, CONCRETE MONUMENTS, ETC.) THAT ARE DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE REFERENCED AND PROPERLY RESET FOLLOWING CONSTRUCTION UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL SURVEYOR OF THE STATE OF OHIO AT THE CONTRACTOR'S EXPENSE.

ALL MANUFACTURED MATERIALS USED FOR THIS PROJECT MUST BE DOMESTIC AND MADE IN THE U.S.A

ALL SHOP DRAWINGS MUST BE APPROVED BY LICKING TOWNSHIP OR IF DESIGNATED BY THE TOWNSHIP, THE MUSKINGUM COUNTY ENGINEER'S OFFICE.

LICKING TOWNSHIP IS TO HAVE AN INSPECTOR ON THE JOB SITE AT ALL TIMES WHEN THE CONTRACTOR IS WORKING. LICKING TOWNSHIP MAY REQUEST INSPECTION ASSISTANCE FROM THE MUSKINGUM COUNTY ENGINEER'S OFFICE, IF DESIRED.

SPECIFICATIONS:

THE REQUIREMENTS OF THE OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS DATED JANUARY 2016, INCLUDING ALL SUPPLEMENTS THERETO IN FORCE ON DATE OF CONTRACT SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS, SHALL APPLY AS NEEDED AND ARE HEREBY CONSIDERED A PART OF THESE PLANS.

PERMITS:

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND HAVE IN HIS POSSESSION AN APPROVED AND SIGNED SET OF CONSTRUCTION DRAWINGS. WITHOUT THE REQUIRED PERMITS AND AN APPROVED SET OF PLANS, CONSTRUCTION WILL NOT BE PERMITTED.

TREES:

TREES ENCOUNTERED DURING CONSTRUCTION OUTSIDE THE RIGHT-OF-WAY LIMITS SHALL BE REMOVED ONLY WHEN NECESSARY. ALL COSTS NECESSARY TO REMOVE EXISTING TREES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE CULVERT REPLACEMENT.

SAFETY REQUIREMENTS:

THE CONTRACTOR AND SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUBCONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK

MISCELLANEOUS WORK:

ALL ITEMS OF WORK CALLED FOR ON THE PLANS FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF SAME SHALL BE INCLUDED IN THE PRICE FOR VARIOUS RELATED ITEMS. IF NO SCHEDULE OF VALUES IS PROVIDED ALL ITEMS OF WORK INDICATED ON THE PLANS ARE TO BE PERFORMED WITH FULL COMPENSATION TO BE INCLUDED IN THE CONTRACT AMOUNT.

FIELD TILE:

ALL FIELD TILE BROKEN DURING EXCAVATION SHALL BE REPLACED TO ORIGINAL CONDITION AS DIRECTED BY THE ENGINEER.

SURPLUS EXCAVATION:

THE CONTRACTOR SHALL DISPOSE ALL SURPLUS EXCAVATION OFFSITE.

TRAFFIC CONTROL:

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE "OHIO MANUAL OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION AND MAINTENANCE OPERATIONS" AND THE TRAFFIC CONTROL DETAILS PROVIDED IN THESE PLANS. COPIES OF THE TITLED DOCUMENT NOTED ABOVE ARE AVAILABLE ON THE WEB OR FROM THE OHIO DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC, 25 S. FRONT STREET, COLUMBUS, OHIO 43215.

EROSION CONTROL:

EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF OHIO'S STANDARDS FOR STORM WATER MANAGEMENT LAND DEVELOPMENT AND URBAN STREAM PROTECTION MANUAL "RAINWATER AND LAND DEVELOPMENT".

TRACKING OR SPILLAGE OF MUD, DIRT, OR DEBRIS UPON STREETS, RESIDENTIAL OR COMMERCIAL DRIVES, SIDEWALKS, OR BIKE PATHS IS PROHIBITED AND ANY SUCH OCCURRENCE SHALL BE CLEANED IMMEDIATELY.

THE PROJECT SITE SHALL BE FREE OF ALL DEBRIS AND MATERIALS RESULTING FROM THIS OPERATION AND ALL SURFACES, STRUCTURES, DITCHES, AND PROPERTY RESTORED TO ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER.

EXISTING UTILITIES:

THE IDENTITY AND LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY AS REQUIRED BY SECTION 153.64 OR SECTION 3781.27 OF THE OHIO REVISED CODE, THE COUNTY AND THE ENGINEER ASSUME NO RESPONSIBILITY FOR THE ACCURACY OF LOCATIONS OR DEPTHS OF UNDERGROUND FACILITIES SHOWN ON THE APPROVED CONSTRUCTION DRAWINGS.

THE CONTRACTOR SHALL DESIGNATE FOR EXISTING UTILITIES AROUND ALL PROPOSED STRUCTURES BEFORE DIGGING TO VERIFY NO CONFLICTS EXIST. WHEN UNKNOWN OR INCORRECTLY LOCATED UNDERGROUND UTILITIES ARE ENCOUNTERED DURING DESIGNATION AND/OR CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER, THE COUNTY AND THE ENGINEER.

THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AT (1-800-362-2764) AT LEAST 48 HOURS, AND NO MORE THAN 10 DAYS PRIOR TO EXCAVATING WITH SUCH TIME PERIODS NOT INCLUDING WEEKENDS OR HOLIDAYS. CONTRACTOR SHALL SIMILARLY CONTACT ALL UTILITY OWNERS WHO ARE NOT SUBSCRIBERS TO OUPS.

IF THERE ARE MARKERS OR OTHER APPARENT PHYSICAL EVIDENCE IN OR NEAR THE PROJECT AREA THAT MAY INDICATE THE EXISTENCE OF UNDERGROUND PETROLEUM OR NATURAL GAS PIPELINES, THE CONTRACTOR SHALL ADDITIONALLY CONTACT THE OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE (OGPUPS) AT 800-925-0988. TOLL FREE SAID NOTIFICATION SHALL BE GIVEN A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

THE FOLLOWING UTILITIES ARE KNOWN OR CAN BE EXPECTED TO BE LOCATED WITHIN THE LIMITS OF THIS PROJECT:

UTILITY	OWNER	PHONE
GAS/PETROLEUM	DIVERSIFIED GAS & OIL	330.493.0440
GAS/PETROLEUM	NATIONAL GAS & OIL	740.344.2102
GAS/PETROLEUM	PETRO QUEST, INC.	740.554.5888
GAS	COLUMBIA GAS OF OHIO	740.450.1215
ELECTRIC	AEP	614.716.1000
WATER	MUSKINGUM COUNTY WATER DEPT	740.453.0678
WATER	CITY OF ZANESVILLE WATER DEPT	740.455.0631
WASTEWATER	MUSKINGUM COUNTY SEWER DEPT	740.452.4940
WASTEWATER	CITY OF ZANESVILLE SEWER DEPT	740.455.0662
COMMUNICATIONS	AT&T OHIO	740.454.3455
COMMUNICATIONS	CHARTER/SPECTRUM	888.438.2427
COMMUNICATIONS	AEP TELECOM	800.672.2231

THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL PROCEED WITH THE WORK AND PROTECT ALL UNDERGROUND UTILITIES IN A MANNER AT LEAST AS CAUTIOUS AND PROTECTIVE OF SAFETY AND UNDERGROUND UTILITIES AS THOSE METHODS IDENTIFIED IN SECTIONS 3781.25 THROUGH 3781.30 OF THE OHIO REVISED CODE.

ALL MARKED PRIVATE UTILITY REPAIRS OR RELOCATION (GAS, ELECTRIC, PHONE, ETC.) WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

ANY REPAIRS OR RELOCATION OF UNMARKED PRIVATE UTILITIES (GAS, ELECTRIC, PHONE, ETC.) SHALL BE THE RESPONSIBILITY OF THE UTILITY OWNER. ANY REPAIRS OR RELOCATION OF UNMARKED PUBLIC UTILITIES SUCH AS WATER SHALL BE THE RESPONSIBILITY OF THE UTILITY OWNER. ANY REPAIRS TO WATER SERVICE LINES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE UNIT PRICE FOR ITEM SPECIAL WATER SERVICE LINE REPAIR, A QUANTITY OF 20 WATER SERVICE LINE REPAIR UNITS HAVE BEEN INCLUDED IN THE ESTIMATED QUANTITIES FOR THIS PROJECT.

WATER WITHDRAWAL REGISTRATION:

THE OHIO DEPARTMENT OF NATURAL RESOURCES REQUIRES A WATER REGISTRATION WHERE SURFACE OR GROUNDWATER IS WITHDRAWN AT A RATE GREATER THAN 100,000 GALLONS PER DAY. THE CONTRACTOR WILL BE REQUIRED TO APPLY FOR AND SUBMIT THE REQUIRED FORM.

UNAUTHORIZED STREET EXCAVATION:

IN THE EVENT EXCAVATION FOR THE STREET IS FROM 0" TO 6" BELOW THAT CALLED FOR THE PLANS, THE CONTRACTOR SHALL REPLACE THIS EXCESS EXCAVATED MATERIAL WITH COMPACTED 304 CRUSHED LIMESTONE AGGREGATE AS DIRECTED AND AT NO EXTRA COST TO THE OWNER OR ENGINEER.

BACKFILL - CULVERT:

WHERE THE CULVERT CROSSES EXISTING PAVEMENT, THE TRENCH SHALL BE BACKFILLED WITH COMPACTED GRANULAR MATERIAL, ITEM 603.08, AND SHALL BE COMPACTED IN 8-INCH LIFTS, FROM THE BOTTOM OF THE TRENCH TO A PLANE SIX INCHES (6") BELOW THE SUBGRADE. THE LIMITS OF PLACEMENT SHALL BE 5 FEET FROM THE EDGE OF PAVEMENT.

STRUCTURAL BACKFILL, BACKFILL OCCURRING UNDER PAVEMENT, SHALL MEET THE REQUIREMENTS OF ODOT SPECIFICATION 603.09. COMPACTION TESTING TO VERIFY COMPACTION SHALL BE PAID FOR BY THE "OWNER". ANY BACKFILL WHICH FAILS TO MEET THESE REQUIREMENTS SHALL BE REPLACED AND / OR RE-COMPACTED AND RETESTED AT THE EXPENSE OF THE CONTRACTOR.

ROADSIDE SWALE RESTORATION:

WHERE CULVERT INSTALLATION DISTURBS EXISTING ROADSIDE SWALES, CONTRACTOR SHALL BE REQUIRED TO RESTORE ROADSIDE SWALES TO PRECONSTRUCTION CONDITIONS FOLLOWING INSTALLATION. COST FOR RESTORATION TO BE INCLUDED IN THE UNIT PRICE FOR CULVERT.

WATER WITHDRAWAL REGISTRATION:

THE OHIO DEPARTMENT OF NATURAL RESOURCES REQUIRES A WATER REGISTRATION WHERE SURFACE OR GROUNDWATER IS WITHDRAWN AT A RATE GREATER THAN 100,000 GALLONS PER DAY. THE CONTRACTOR WILL BE REQUIRED TO APPLY FOR AND SUBMIT THE REQUIRED FORM IF APPLICABLE.

Mark J. Eicher, P.E., P.S.
155 Rehl Road
Zanesville, Ohio 43701
MUSKINGUM COUNTY ENGINEER'S OFFICE

PREPARED BY:

CRANBERRY LANE CULVERT REPLACEMENT
GENERAL NOTES

PROJECT NAME

PROJECT LOCATION

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

08/21/2023

REVISED:

SHEET SIZE:

11" x 17"

SHEET NAME:

GENERAL NOTES

SHEET NUMBER:

04
09

ITEM 614 - MAINTENANCE OF TRAFFIC

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN STANDARD 48" x 30" ROAD CLOSED SIGNS, ADVANCED WARNING SIGNS, SIGN SUPPORTS, BARRICADES, GATES AND LIGHTS AS SHOWN ON SCD MT-101.60 AT THE LOCATIONS SHOWN DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS, SIGN SUPPORTS, AND TYPE 3 BARRICADES OF THE TYPE AND LOCATION AS SHOWN ON THIS SHEET.

ALL WORK AND TRAFFIC DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

DETOUR NOTIFICATION

THE CONTRACTOR SHALL ADVISE THE MCEC EIGHTEEN (18) DAYS IN ADVANCE OF WHEN THE DETOUR ROUTE WILL BE IN EFFECT. THE CONTRACTOR SHALL THEN PROVIDE AND INSTALL ALL DEVICES NECESSARY TO DEFINE THE ROUTE OF THE DETOUR AND SHALL MAINTAIN THE SAME THROUGHOUT THE DETOUR LIMITATION DATES. ALL TRAFFIC CONTROL DEVICES REQUIRED, SHALL BE FURNISHED, ERECTED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR.

DETOUR SIGNAGE



THE CONTRACTOR SHALL ERECT AND MAINTAIN DETOUR SIGNAGE AND ADVANCED NOTICE SIGNS AS SHOWN ON THIS SHEET.

THIS WORK SHALL BE PAID UNDER THE LUMP SUM PAY ITEM 614 - DETOUR SIGNING, AS PER PLAN.








DETOUR LIMITATION

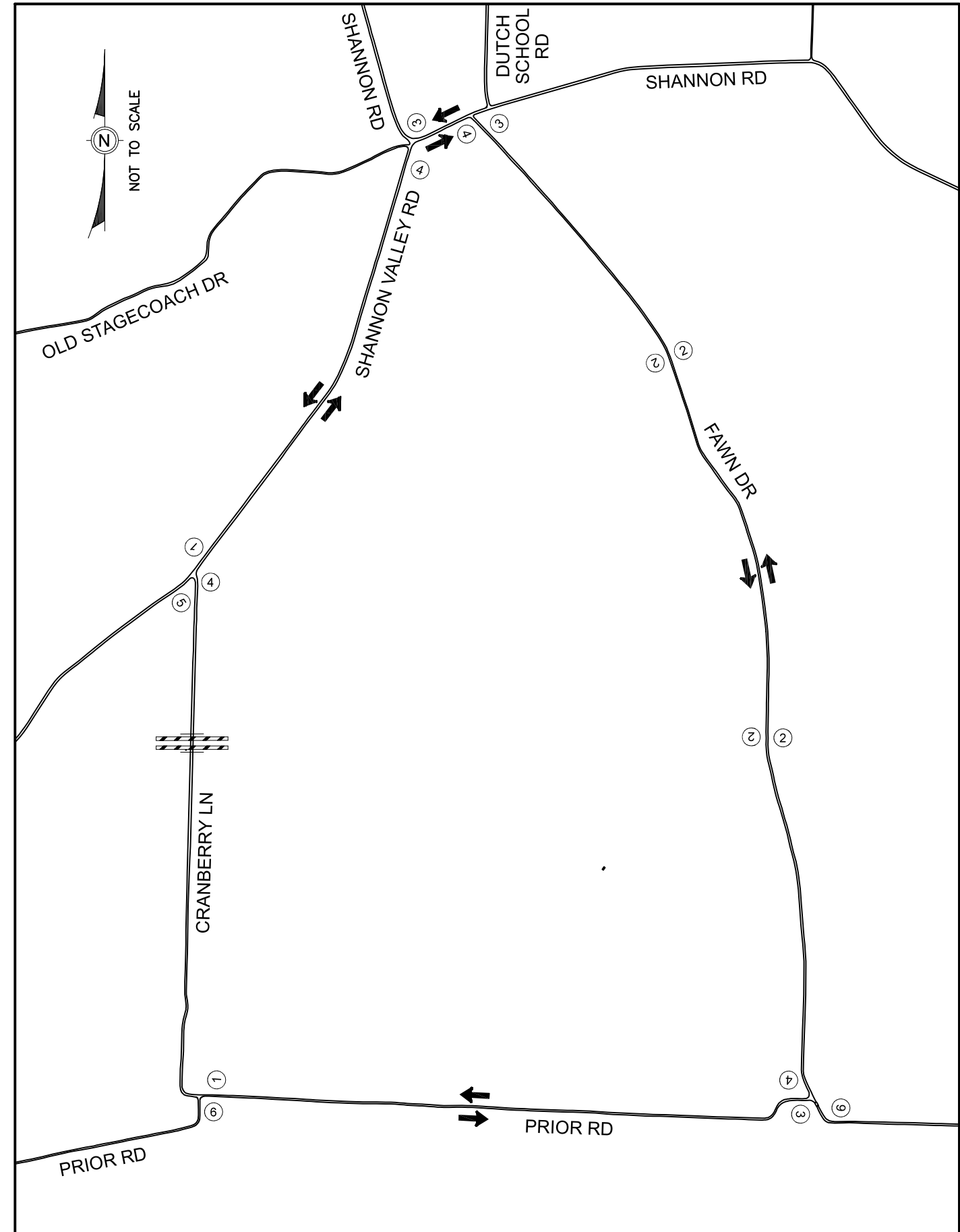
THE MAXIMUM LENGTH OF TIME FOR THE DETOUR ROUTE TO BE IN EFFECT SHALL BE FOURTEEN (14) CONSECUTIVE DAYS. CONSTRUCTION WORK MAY BE PERFORMED BEFORE AND AFTER THE DETOUR LIMITATION DATES, BUT THERE SHALL BE NO RESTRICTIONS TO THROUGH OR LOCAL TRAFFIC. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCHEDULE AND PERFORM THE CONSTRUCTION WORK WITHIN THE DETOUR LIMITATION TIME. THE FAILURE OF THE CONTRACTOR TO MEET THE DETOUR LIMITATION DATES WILL CAUSE SEPARATE LIQUIDATED DAMAGES IN ACCORDANCE WITH 108.07 TO BE ASSESSED. THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS OF 108.07 OF THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS.

MAP LEGEND

-  GATES, SIGNS, BARRICADES, ETC. AS SHOWN ON SCD MT-101.60
-  DETOUR ROUTE

TYPICAL SIGNS AS NEEDED

- ①  END DETOUR
M4-8A (24"x18")
- ②  CRANBERRY LANE
DETOUR
SPECIAL (36"x12")
M4-8 (30"x15")
- ③  CRANBERRY LANE
DETOUR
SPECIAL (36"x12")
M4-9L (30"x24")
- ④  CRANBERRY LANE
DETOUR
SPECIAL (36"x12")
M4-9R (30"x24")
- ⑤  ROAD CLOSED
X.X MILES AHEAD
LOCAL TRAFFIC ONLY
DETOUR
R11-3a (60"x30")
M4-10L (48"x18")
- ⑥  ROAD CLOSED
X.X MILES AHEAD
LOCAL TRAFFIC ONLY
DETOUR
R11-3a (60"x30")
M4-10R (48"x18")
- ⑦  ROAD CLOSED
R11-2 (48"x30")



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Muskingum County
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:
Muskingum County
PROJECT NAME: CRANBERRY LANE CULVERT REPLACEMENT
PROJECT LOCATION: MAINTENANCE OF TRAFFIC
LICKING TOWNSHIP
MUSKINGUM COUNTY, OHIO

PLANS APPROVED BY:
MJE

PLANS PREPARED BY:
GJW

DATE:
08/07/2023

REVISED:

SHEET SIZE:
11" x 17"

SHEET NAME:
MOT

SHEET NUMBER:
05
09

ESTIMATED QUANTITIES				
ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION
EARTHWORK				
201	11000	LS		CLEARING AND GRUBBING
202	11001	LS		STRUCTURE REMOVED, AS PER PLAN
203	10000	X	CY	EXCAVATION
203	20000	X	CY	EMBANKMENT
204	10000	X	SY	SUBGRADE COMPACTION
ROADWAY				
304	20000	X	CY	AGGREGATE BASE
441	50000	X	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
441	50200	X	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), PG64-22
INCIDENTALS				
601	32100	X	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER
611	94730	x	FT	7 FT x 6 FT CONDUIT, TYPE A, 706.05, AS PER PLAN
611	97600	x	CY	CONDUIT MISC., NO. 2 STONE BACKFILL (INSIDE OF TRENCH)
611	97600	x	CY	CONDUIT MISC., NO. 57 STONE BACKFILL (INSIDE OF TRENCH)
623	10001	LS		CONSTRUCTION LAYOUT TAKES AND SURVEYING
624	10000	LS		MOBILIZATION
MAINTENANCE OF TRAFFIC				
614	11000	LS		MAINTAINING TRAFFIC
614	12420	LS		DETOUR SIGNING
EROSION CONTROL				
207	30000	LS		TEMPORARY SEDIMENT & EROSION CONTROL
659	10000	x	SY	SEEDING AND MULCHING

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Muskingum
COUNTY
ENGINEER'S OFFICE 740-454-0155

PREPARED BY:

CRANBERRY LANE CULVERT REPLACEMENT
 ESTIMATED QUANTITIES

PROJECT NAME:

PROJECT LOCATION:

LICKING TOWNSHIP
MUSKINGUM COUNTY, OHIO

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

08/21/2023

REVISED:

SHEET SIZE:

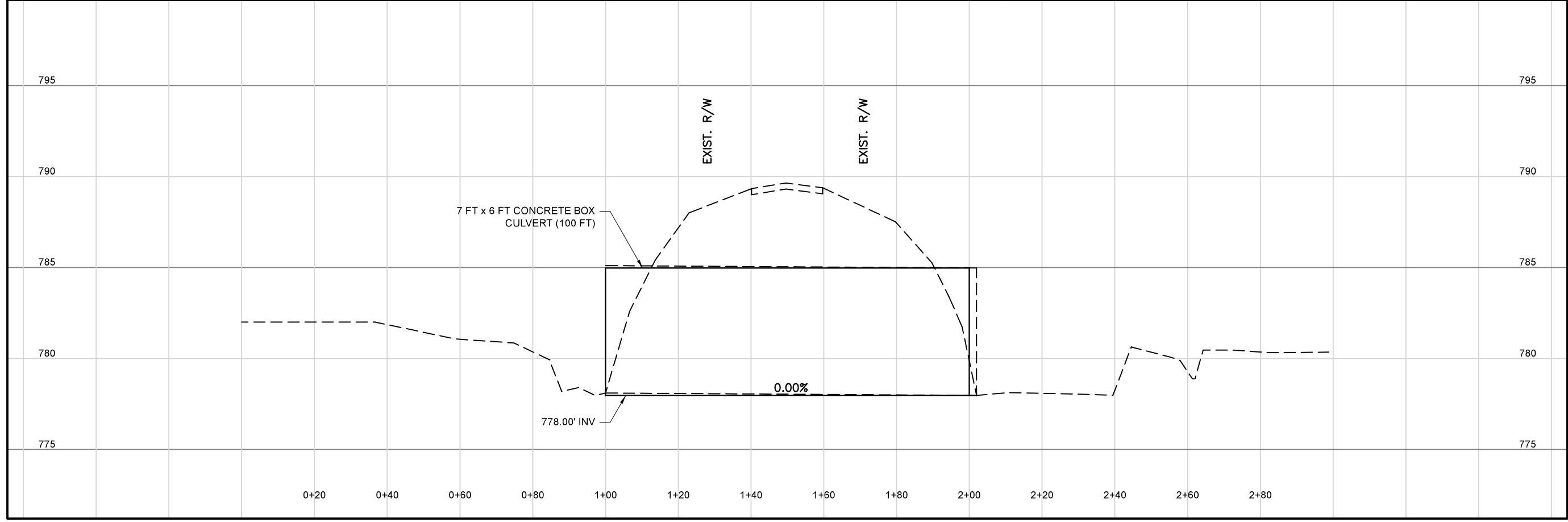
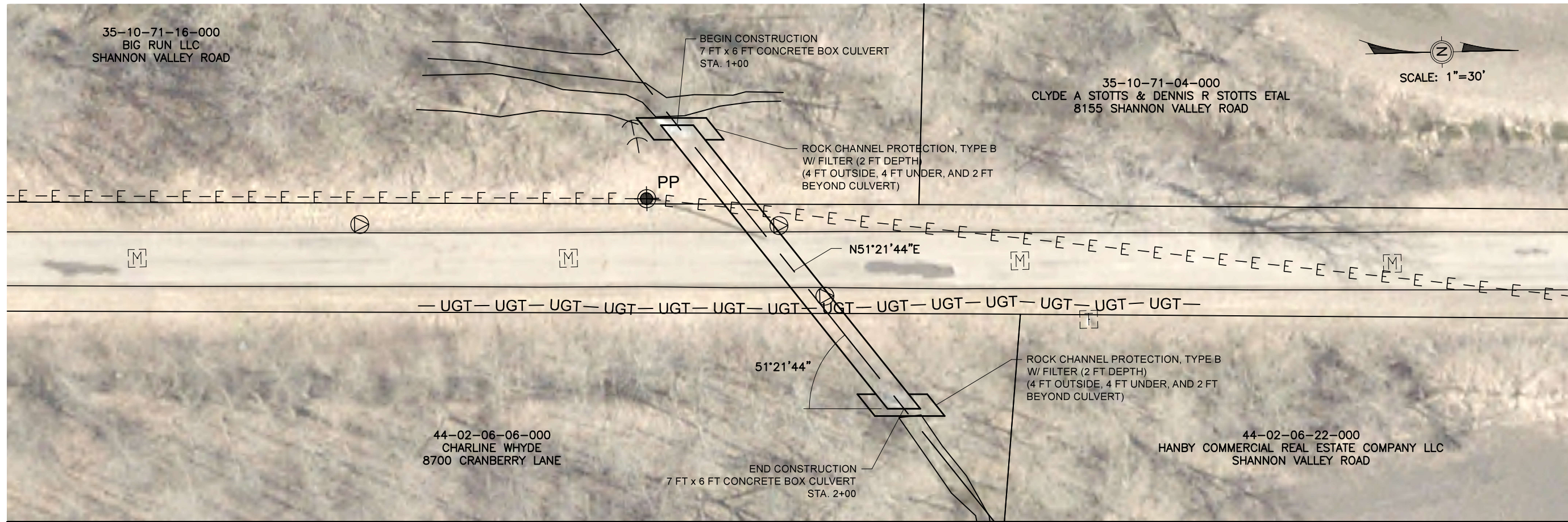
11" x 17"

SHEET NAME:

QUANTITIES

SHEET NUMBER:

06
09



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155 Rehl Road
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Muskingum
County
ENGINEER'S OFFICE

PREPARED BY:

PROJECT NAME: CRANBERRY LANE CULVERT REPLACEMENT
PLAN & PROFILE

PROJECT LOCATION: LICKING TOWNSHIP
MUSKINGUM COUNTY, OHIO

PLANS APPROVED BY: MJE

PLANS PREPARED BY: GJW

DATE: 08/21/2023

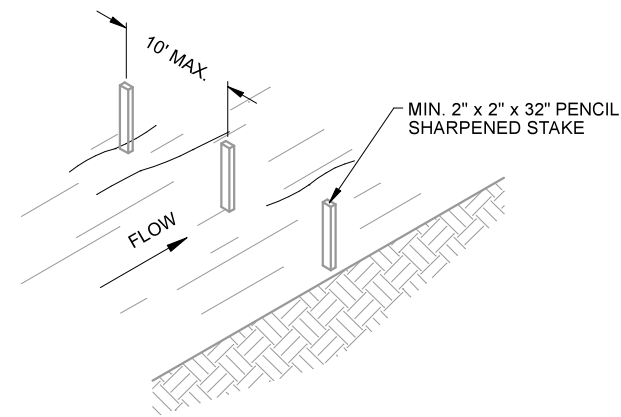
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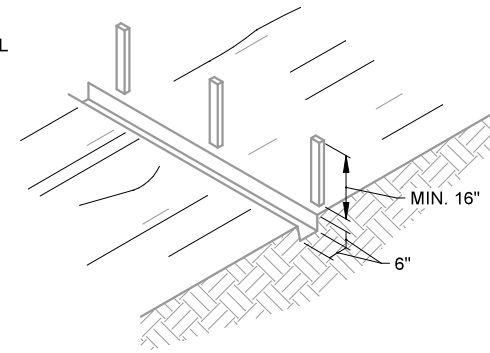
SHEET NAME: PLAN & PROFILE SHEET

SHEET NUMBER: 07 / 09

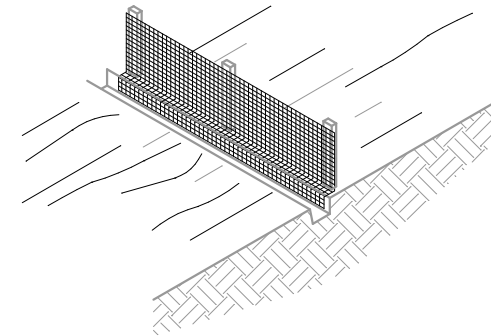
1) SET THE STAKES



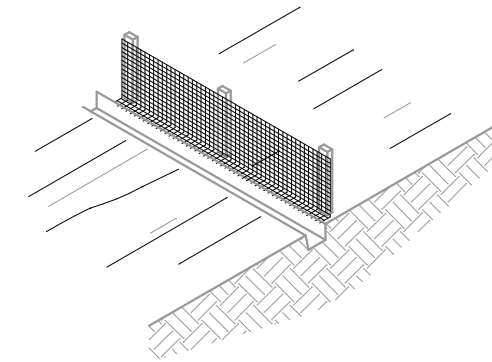
2) EXCAVATE A 6"x6" TRENCH UPSLOPE ALONG THE LINE STAKES.



3) STAPLE FILTER MATERIAL TO STAKES AND EXTEND IT INTO THE TRENCH.



4) BACKFILL AND COMPACT THE EXCAVATED SOIL



SEDIMENT FENCE DETAIL

SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.

ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.

TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.

WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.

WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.

THE HEIGHT OF THE SILT FENCE SHALL BE A MINIMUM OF 16 IN. ABOVE THE ORIGINAL GROUND SURFACE.

THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MINIMUM OF 6 IN. DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER, CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.

THE SILT FENCE SHALL BE PLACED WITH THE STAKES ON THE DOWNSLOPE SIDE OF THE GEOTEXTILE AND SO THAT 8 IN. OF CLOTH ARE BELOW THE GROUND SURFACE. EXCESS MATERIAL SHALL LAY ON THE BOTTOM OF THE 6 IN. DEEP TRENCH. THE TRENCH SHALL BE BACKFILLED AND COMPACTED.

SEAMS BETWEEN SECTION OF SILT FENCE SHALL BE OVERLAPPED WITH THE END STAKES OF EACH SECTION WRAPPED TOGETHER BEFORE DRIVING INTO THE GROUND.

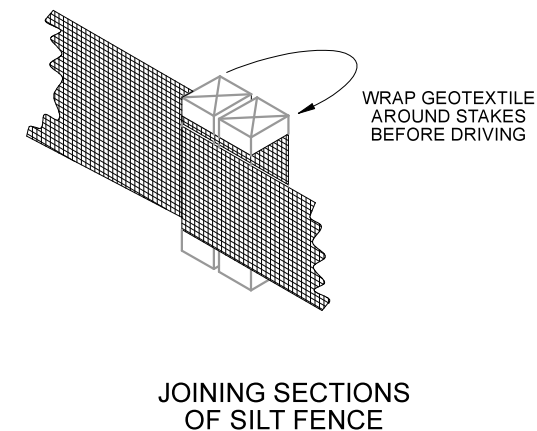
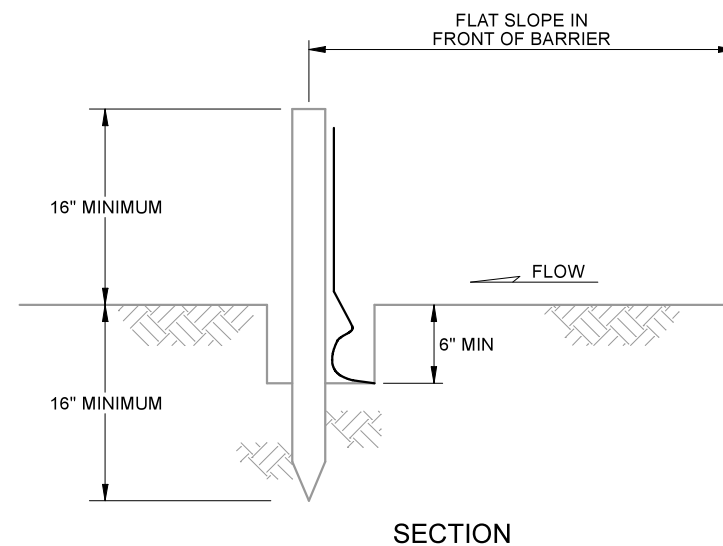
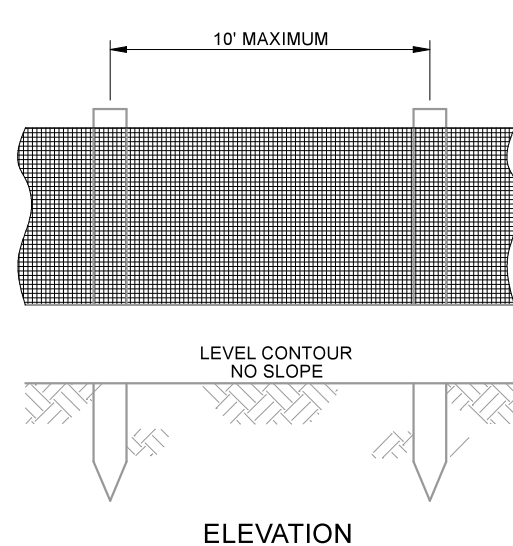
MAINTENANCE:

SILT FENCE SHALL ALLOW RUNOFF TO PASS ONLY AS DIFFUSE FLOW THROUGH THE GEOTEXTILE. IF RUNOFF OVERTOPS THE SILT FENCE, FLOWS UNDER OR AROUND THE ENDS, OR IN ANY OTHER WAY BECOMES A CONCENTRATED FLOW, ONE OF THE FOLLOWING SHALL BE PERFORMED, AS APPROPRIATE: 1) THE LAYOUT OF THE SILT FENCE SHALL BE CHANGED, 2) ACCUMULATED SEDIMENT SHALL BE REMOVED, OR 3) OTHER PRACTICES SHALL BE INSTALLED.

CRITERIA FOR SILT FENCE MATERIALS:

- FENCE POSTS: THE LENGTH SHALL BE A MINIMUM OF 32 IN. LONG. WOOD POSTS WILL BE 2-BY-2-IN. HARDWOOD OF SOUND QUALITY. THE MAXIMUM SPACING BETWEEN POSTS SHALL BE 10 FT.
- SILT FENCE FABRIC SHALL BE ODOT TYPE C GEOTEXTILE FABRIC OR AS DESCRIBED BY THE CHART BELOW:

FABRIC PROPERTIES	
MINIMUM TENSILE STRENGTH.....	120 LBS.
MAXIMUM ELONGATION AT 60 LBS.....	50%
MINIMUM PUNCTURE STRENGTH.....	50 LBS.
MINIMUM TEAR STRENGTH.....	40 LBS.
MINIMUM BURST STRENGTH.....	200 PSI
APPARENT OPENING SIZE.....	≤ 0.84MM
MINIMUM PERMITTIVITY.....	1X10 ⁻² SEC ⁻¹
ULTRAVIOLET EXPOSURE STRENGTH RETENTION.....	70%



PREPARED BY:

CRANBERRY LANE CULVERT REPLACEMENT
EROSION CONTROL

PROJECT NAME

PLANS APPROVED BY:

MJE

PLANS PREPARED BY:

GJW

DATE:

08/07/2023

REVISED:

SHEET SIZE:

11" x 17"

SHEET NAME:

EROSION CONTROL SHEET (1)

SHEET NUMBER:

08
09

SEDIMENT & EROSION CONTROL GENERAL NOTES

IMPLEMENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES DURING CONSTRUCTION TO THE STANDARDS AND SPECIFICATIONS OF THE STATE OF OHIO AND THEY ARE TO REMAIN IN EFFECT UNTIL AREAS ARE PERMANENTLY STABILIZED.

MAKE DAILY INSPECTIONS OF THE SITE TO INSURE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES, IMMEDIATELY MAKE NECESSARY REPAIRS.

IT MAY BECOME NECESSARY TO REMOVE PORTIONS OF THE BARRIER DURING CONSTRUCTION TO FACILITATE THE GRADING OPERATIONS IN CERTAIN AREAS. HOWEVER, THE BARRIER SHALL BE IN PLACE IN THE EVENING OR DURING ANY INCLEMENT WEATHER.

EROSION AND ANY SEDIMENTATION FROM THE WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT IN ANY OFF-SITE DRAINAGE COURSE, WHETHER NATURAL OR MAN-MADE.

ALL EARTH CHANGES SHALL BE CONSTRUCTED AND COMPLETED IN SUCH A MANNER TO LIMIT THE EXPOSED AREA OF ANY DISTURBED LAND FOR THE SHORTEST PERIOD OF TIME.

ALL CONSTRUCTION TRAFFIC SHALL ENTER AND LEAVE BY THE DESIGNATED ENTRANCE. THIS ENTRANCE SHALL BE CONSTRUCTED OF CRUSHED STONE TO HELP FREE TIRES OF SOIL WHEN LEAVING THE SITE. INSTRUCT ALL VEHICLES TO CLEAN SOIL, MISCELLANEOUS DEBRIS, OR OTHER MATERIAL SPILLED, DUMPED OR OTHERWISE DEPOSITED ON PUBLIC STREETS, HIGHWAYS, SIDEWALKS OR OTHER PUBLIC THOROUGHFARES DURING TRANSIT TO AND FROM THE SITE.

INSTALL TEMPORARY EROSION AND SEDIMENTATION DEVICES AS SHOWN AND REQUIRED BY THESE PLANS. THESE DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL PERMANENT STABILIZATION OF SLOPES, DITCHES AND OTHER EARTH CHANGES HAVE BEEN ACCOMPLISHED.

CATCH BASINS LOCATED IN THE STREET OR NEAR THE SITE WILL BE PROTECTED TO PREVENT SEDIMENTATION FROM ENTERING FACILITY. THE COVERS SHALL BE CHECKED PERIODICALLY AND CLEANED WHENEVER THEY FAIL TO FILTER RUNOFF.

WHERE APPLICABLE, THE DETENTION BASIN SHALL BE USED AS A TEMPORARY SEDIMENTATION BASIN. ALL SURFACE RUNOFF FROM THE PROJECT AREAS SHALL BE DIRECTED BY TEMPORARY DRAINAGE SWALES TO THE BASINS. AT THE COMPLETION OF CONSTRUCTION WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED THE BASINS SHALL BE CAREFULLY DRAINED WITHOUT DISTURBING THE SETTLED SILT, AND THEN GRADED AND SODDED TO CONFORM TO THE SITE GRADING PLAN.

THE LIMITS OF SEEDING AND MULCHING ARE AS SHOWN WITHIN THE PLAN. SEEDING HAS BEEN ASSUMED TO 5' OUTSIDE THE WORK LIMITS OR RIGHT-OF-WAY WHICHEVER IS GREATER. ALL AREAS NOT DESIGNATED TO BE SEEDED SHALL REMAIN UNDER NATURAL GROUND COVER. THOSE AREAS DISTURBED OUTSIDE THE SEEDING LIMITS SHALL BE MULCHED.

ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO, OR IN CONJUNCTION WITH, THE START OF EXCAVATION AND ARE TO REMAIN IN EFFECT UNTIL AREAS ARE STABILIZED. FIELD ADJUSTMENTS WITH RESPECT TO LOCATION AND DIMENSIONS MAY BE MADE BY THE ENGINEER AS REQUIRED.

FILTER BARRIERS CONSIST OF FILTER FABRIC AS SHOWN HEREON.

OHIO EPA PERMITS FOR TEMPORARY EROSION CONTROL ON THE CONSTRUCTION SITE SHALL BE OBTAINED. THE DESIGN OF THE EROSION CONTROL SYSTEMS SHALL FOLLOW THE REQUIREMENTS OF OHIO EPA, ITEM 207 OF OHIO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND THE CITY ENGINEER.

ADEQUATE DRAINAGE OF THE WORK AREA SHALL BE PROVIDED AT ALL TIMES, CONSISTENT WITH EROSION CONTROL PRACTICES.

SEEDING

DISTURBED AREAS THAT WILL REMAIN UNWORKED FOR 21 DAYS OR MORE SHALL BE SEEDED. OTHER SEDIMENT CONTROLS THAT ARE INSTALLED SHALL BE MAINTAINED UNTIL VEGETATION GROWTH HAS BEEN ESTABLISHED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY SEDIMENT DEVICES AT THE CONCLUSION OF CONSTRUCTION BUT NOT BEFORE GROWTH OF PERMANENT GROUND COVER.

TEMPORARY SEEDING (TS) SHALL BE PROVIDED FOR ALL EXPOSED SURFACES AND SOIL STOCKPILES WHERE PERMANENT SEEDING OR ADDITIONAL WORK IS NOT SCHEDULED FOR A PERIOD OF TWENTY-ONE (21) DAYS. SEEDING SHALL BE PROVIDED WITHIN SEVEN (7) DAYS AFTER CONSTRUCTION OPERATIONS CEASE.

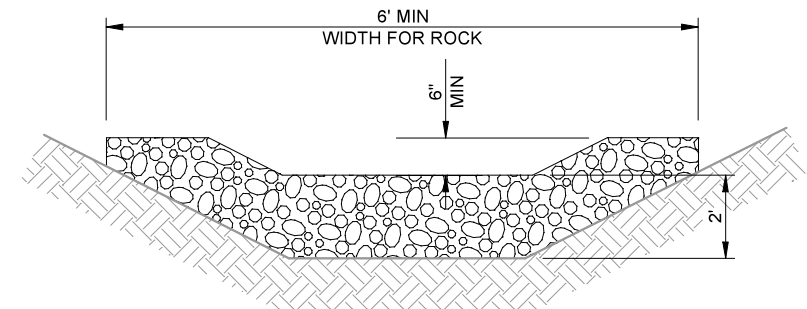
PERMANENT SEEDING (PS) SHALL BE PROVIDED FOR ALL EXPOSED SOIL SURFACES WITHIN SEVEN (7) DAYS AFTER THE FINISH GRADE IS REACHED.

TEMPORARY AND PERMANENT SEEDING, AS SPECIFIED IN ODOT ITEMS 207 AND 659, IS ACCEPTABLE.

AREAS WHERE TEMPORARY OR PERMANENT SEEDING HAS FAILED TO GERMINATE SHALL BE RESEDED AND MULCHED AS NECESSARY TO ACHIEVE STABILIZATION.

SODDING (SO), CRITICAL AREA PLANTING (GC) AND TEMPORARY AND PERMANENT MULCHING (M) SHALL BE PROVIDED WITHIN SEVEN (7) DAYS AFTER FINISHED GRADE IS REACHED. AS SPECIFIED ODOT ITEM 660.

ROCK CHECK DETAIL

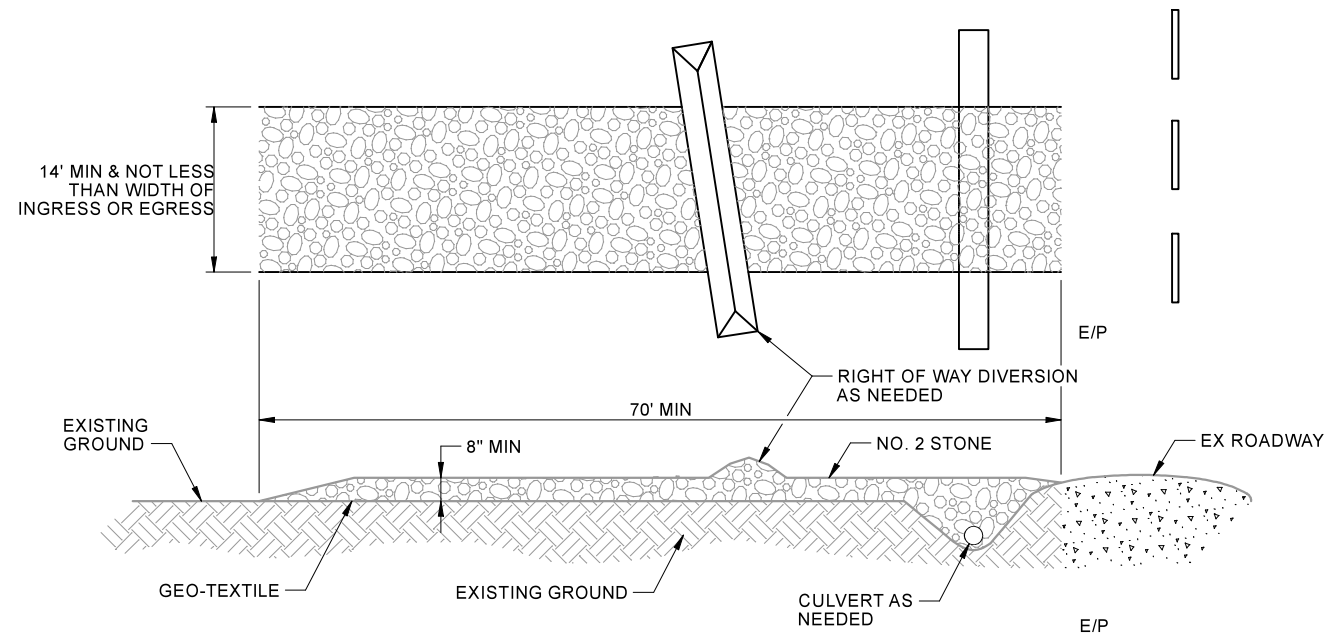


MINIMUM DIMENSIONS: 2' HIGH x 6' WIDE x 3' LONG

ROCK CHECKS:
MATERIALS: FURNISH MATERIAL CONFORMING TO ITEM 601
ROCK CHANNEL PROTECTION TYPE C OR D WITHOUT FILTER.

CONSTRUCTION:
PLACE THE ROCK OUTSIDE THE TRAFFIC CLEAR ZONE IN THE DITCH.

CONSTRUCTION ENTRANCE DETAIL



SPECIFICATIONS

STONE SIZE - NO. 2 (2-1/2" TO 2") OR ITS RECYCLED CONCRETE EQUIVALENT.
LENGTH - AS EFFECTIVE, BUT NOT LESS THAN 70 FEET.
THICKNESS - NOT LESS THAN SIX (6) INCHES.
WIDTH - NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS (MINIMUM 14').

WASHING - WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.

MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

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EROSION
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 SHEET (2)

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09
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