

**RESOLUTION TO ORDER THE IMPROVEMENT OF PEKIN ROAD,**  
**TR 144, SECTION C**  
**Russell Township, Geauga County, Ohio**

**WHEREAS**, the Russell Township Board of Trustees, Geauga County, has determined by unanimous vote in Resolution #2018-5 that the public convenience and welfare require the improvements of Pekin Road (TR 144), Section C and authorized the Geauga County Engineer to prepare engineering plans in accordance with Section 5573.01 of the Ohio Revised Code; and

**WHEREAS**, the Geauga County Engineer has completed the plans, profiles, cross sections, estimates, and specifications for the improvement, and has filed the specifications with the Board; and

**WHEREAS**, the Russell Township Board of Trustees has reviewed the plans, profiles, cross sections, estimates, and specifications and finds them acceptable; and

**WHEREAS**, the cost of such improvement will not be excessive in view of the public utility thereof; and

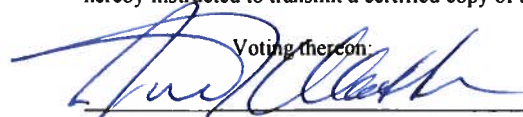

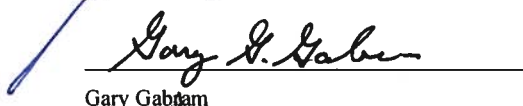

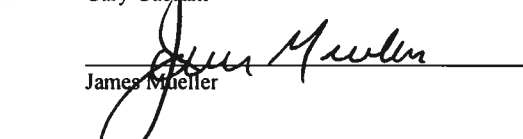

**WHEREAS**, the Russell Township Board of Trustees is satisfied that the public convenience and welfare require the proposed improvement.

**NOW THEREFORE, BE IT RESOLVED** that the Russell Township Board of Trustees in accordance with Section 5573.06 of the Ohio Revised Code hereby orders that such improvement proceed.

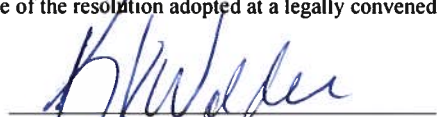
**BE IT FURTHER RESOLVED** that the Russell Township Board of Trustees hereby adopts the surveys, plans, profiles, cross sections, estimates, and specifications for such improvement, the costs of which shall be paid from local funding sources in accordance with Section 5573.07 of the Ohio Revised Code.

**BE IT FURTHER RESOLVED** that the Fiscal Officer of the Russell Township Board of Trustees is hereby ordered to let this project for bids in accordance with Section 5575.02 of the Revised Code. The bids shall be let upon a unit price basis. Bids shall be received by Karen Walder, Fiscal Officer, until 11:00 A.M. official local time on June 11, 2018. Bids received will be publicly opened and read aloud at 11:05 A.M. the same day.

**BE IT FURTHER RESOLVED** that the Fiscal Officer of the Russell Township Board of Trustees is hereby instructed to transmit a certified copy of this resolution to the Geauga County Engineer.

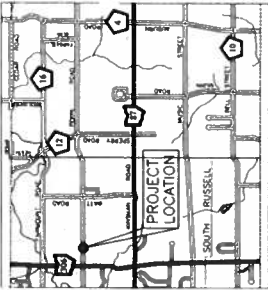
 _____ Justin Madden	Voting thereon:	 _____ Vote
 _____ Gary Gabram		 _____ Vote
 _____ James Mueller		 _____ Vote

I, Karen Walder, the Fiscal Officer of the Russell Township Board of Trustees certify that the foregoing is a true and correct copy of the acceptance of the resolution adopted at a legally convened Board meeting held on May 16, 2018.

  
\_\_\_\_\_  
Karen Walder, Fiscal Officer

# CU-144-02.60-18 PEKIN ROAD CULVERT

RUSSELL TOWNSHIP  
GEAUGA COUNTY



LOCATION MAP  
LATITUDE N41° 28' 42.80" LONGITUDE W81° 19' 57.41"



PORTION TO BE IMPROVED	-----
U.S. ROUTES	-----
STATE ROUTES	-----
TOWNSHIP ROADS	-----
COUNTY ROADS	-----

DESIGN DESIGNATIONS	-----
CURRENT ADT (2018)	1250
DESIGN YEAR ADT (2038)	1525
DESIGN HOURLY VOLUME (2038)	152
DIRECTIONAL DISTRIBUTION	0.50
TRUCKS (24 HOUR B&C)	0.02
DESIGN SPEED	45 MPH
LEGAL SPEED	45 MPH

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL

PROJECT DESCRIPTION  
REPLACEMENT OF THE EXISTING 70" OF 48" CORRUGATED METAL PIPE WITH 104'-48" REINFORCED CONCRETE PIPE, 1 MANHOLE, 50' OF HDPE PIPE AND ONE HEADWALL, ADDITIONALLY REMOVE 140' OF 48" PIPE AND INSTALL 230' OF 48" HDPE PIPE WITH TWO MANHOLES AND TWO HEADWALLS. ROADWAY EMBANKMENT SHALL BE WIDENED FOR GUARDSRAIL ELIMINATION AND DITCHES RELOCATED AS REQUIRED.

2016 SPECIFICATIONS  
THE CONSTRUCTION AND MATERIAL SPECIFICATIONS DATED 2016 PUBLISHED BY THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) AND THE MODIFICATIONS TO THE OHIO DEPARTMENT OF TRANSPORTATION'S 2016 CONSTRUCTION AND MATERIAL SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS FOR GEAUGA COUNTY DATED 2018 SHALL GOVERN THIS PROJECT EXCEPT WHERE OTHERWISE NOTED IN THESE PLANS.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED AS INDICATED ON SHEET 2.

APPROVED  
*Joe Cattell*  
JOE CATTELL, PE, PS

DATE 5-14-18 GEAUGA COUNTY ENGINEER

TITLE SHEET 1  
DETOUR ROUTE 2  
GENERAL NOTES/ESTIMATED QUANTITIES 3  
PLAN & PROFILES 4-5

FEDERAL PROJECT NO.

PID NO.

CONSTRUCTION PROJECT NO.  
CU-144-02.60-18

RAILROAD INVOLVEMENT  
NONE

CU-144-02.60  
PEKIN ROAD CULVERT

15

ENGINEERS SEAL	STANDARD CONSTRUCTION DRAWINGS	SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
	MS-2.2	7-21-17	
	MS-1.2	1-15-16	
	MS-4.2	7-20-12	B.52
	MS-4.4	1-15-15	
	MT-101.60	1-20-17	
	MT-105.10	7-19-13	
	TC-41.20	10-18-13	
	TC-52.10	10-18-13	
	TC-52.20	1-19-18	
	TC-52.20	1-19-18	

UNDERGROUND UTILITIES  
CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG

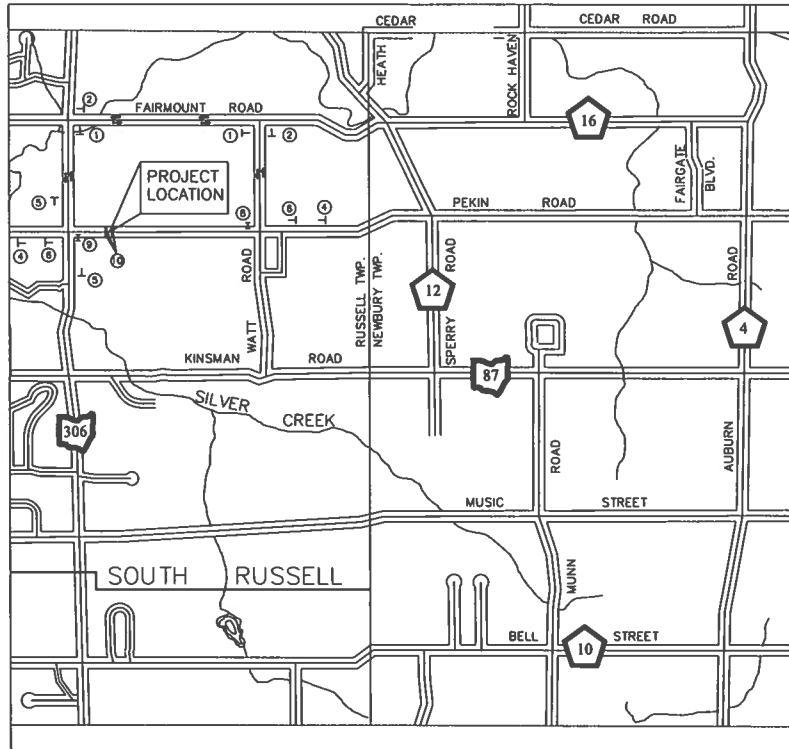
Ohio Utilities Pre-locate Service  
Call Before You Dig  
1-800-362-2764  
(Non-members must be called directly)

OIL & GAS PRODUCERS  
UNDERGROUND PROTECTION SERVICE  
1-800-922-0988

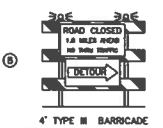
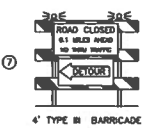
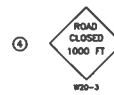
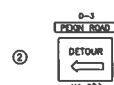
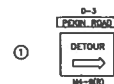
PLANS PREPARED BY:  
GEAUGA COUNTY ENGINEER'S OFFICE  
JOE CATTPELL, PE, PS  
106 CHAMBERLAIN ROAD  
CHARDON, OHIO 44024  
PHONE (440) 279-1800

APPROVED  
*Gary G. Gabram*  
GARY G. GABRAM  
*Justin Madden*  
JUSTIN MADDEN  
*James Mueller*  
JAMES MUELLER

DATE 5/16/18  
RUSSELL TOWNSHIP  
BOARD OF TRUSTEES

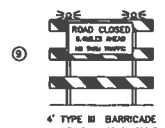
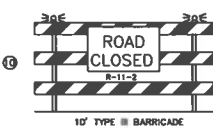
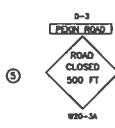


DETOUR ROUTE



SIGN	QTY
R-11-2	4
R-11-3B	2
W4-10(L)	1
W4-10(R)	1
W4-3(L)	2
W4-3(R)	2
W20-2	2
W20-3	2
W20-3A	2
D-3	8

BARRICADE	QUANTITY-I	QUANTITY-II
TYPE III	2	4



TYPE III PORTABLE AND FIXED BARRICADES SHALL BE EQUIPPED WITH TWO TYPE B FLASHING WARNING LIGHTS EACH. THESE LIGHTS SHALL BE VISIBLE TO TRAFFIC APPROACHING FROM EITHER SIDE OF THE BARRICADES. ALL SIGNS AND BOTH SIDES OF THE BARRICADES SHALL MEET THE REFLECTIVE REQUIREMENTS OF ODOT SPEC. 630.



DATE: 4/7/16  
BY: [signature]  
CHECKED: [signature]

DETOUR ROUTE

CU-144-02.60  
PEKIN ROAD CULVERT



**GENERAL**

**UTILITIES NOTIFICATION**

AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE REGISTERED UTILITY PROTECTION SERVICE AND THE OWNERS OF EACH UNDERGROUND UTILITY FACILITY SHOWN IN THE PLANS.

THE CONTRACTOR SHALL NOTIFY THE OHIO UTILITIES PROTECTION SERVICE (OUPS) AT 800-302-2764 OR 611 AND THE OIL AND GAS PRODUCERS UNDERGROUND PROTECTION SERVICE (OGUPS) AT 1-800-925-0988 IN ALL CASES WHERE EXCAVATION IS TO OCCUR. THE FOLLOWING UTILITY COMPANIES MAY HAVE UTILITIES WITHIN THE PROJECT CONSTRUCTION LIMITS:

**THE ILLUMINATING COMPANY**  
6834 MILLER ROAD  
SPRECKSVILLE, OHIO 44144  
EMAIL - [constr@illuminating.com](mailto:constr@illuminating.com)  
ATTN: TIM DENZLER

**DOMINION EAST OHIO GAS**  
320 SPRINGCREEK DRIVE, SUITE 320  
JACKSON, OHIO 44333  
PHONE: (330) 884-2409  
ATTN: BRYAN DAYTON

**CHARTER/THINK WATER/BI**  
7820 DUNBAR DRIVE  
MENTOR, OHIO 44060  
PHONE: (440) 343-1330  
ATTN: DAN SYMISTER

**WINDSTREAM**  
265 S. HANBROOK  
CHARLTON, OHIO 44024  
PHONE: (440) 283-5474  
ATTN: JOHN HOOBY

**LOCAL OFFICIALS**

LOCAL OFFICIALS, LISTED BELOW, SHALL BE NOTIFIED FORTY-EIGHT (48) HOURS PRIOR TO THE START OF WORK, AND UPDATED AS WORK PROGRESSES.

GEAUGA COUNTY SHERIFF  
STATE HIGHWAY PATROL  
RUSSELL TOWNSHIP POLICE DEPARTMENT  
RUSSELL TOWNSHIP FIRE DEPARTMENT  
UNITED STATES POSTAL SERVICE (NOVOTV)  
PETERBOROUGH SCHOOLS  
WEST GEAUGA LOCAL SCHOOL DISTRICT  
GEAUGA TRANSIT

440-278-2009  
440-286-6612  
440-338-2912  
440-338-6181  
440-728-8608  
440-728-8608  
440-278-2150

**CONTINGENCY QUANTITIES**

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE CONTRACTOR'S MONTHLY INVOICES.

**SEEDING AND EROSION CONTROL**

TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN 7 DAYS FROM THE START OF GRUBBING. ALL EROSION CONTROLS SHALL CONTINUE TO FUNCTION UNTIL DISTURBED AREAS ARE RE-STABILIZED WITH SEED AND MULCH. OTHER SEDIMENT AND EROSION CONTROLS MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS AND MAY BE REQUIRED AT THE DISCRETION OF THE GEAUGA SOIL AND WATER CONSERVATION DISTRICT OR ITS REPRESENTATIVES. A QUANTITY OF TON (10) STRAW AND/OR HAY BALES HAVE BEEN REFERENCED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

PERMANENT STABILIZATION	
AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREA THAT WILL BE OUBRANT FOR ONE YEAR OR MORE.	WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE.
ANY AREA WITHIN 50 FEET OF A WATERCOURSE AND AT FINAL GRADE.	WITHIN 2 DAYS OF REACHING FINAL GRADE.
ANY AREA AT FINAL GRADE.	WITHIN 7 DAYS OF REACHING FINAL GRADE WITHIN THAT AREA.

TEMPORARY STABILIZATION	
AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREA WITHIN 50 FEET OF A WATERCOURSE AND NOT AT FINAL GRADE.	WITHIN 3 DAYS OF THE MOST RECENT DISTURBANCE, IF THAT AREA WILL REMAIN OUBR FOR MORE THAN 14 DAYS.
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREA INCLUDING SOIL STOCKPILES THAT WILL BE OUBRANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50' OF A WATERCOURSE.	WITHIN 7 DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA.
DISTURBED AREAS THAT WILL BE SOLE OVER THE WINTER.	PRIOR TO NOVEMBER 1.

NOTE: WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNSUITABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED. THESE TECHNIQUES MAY INCLUDE MULCHING, EROSION MATTING, OR PLACEMENT OF STONE.

**CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES**

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT OR DITCH TO CROSS OVER OR UNDER AN UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING UTILITY BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT OR EXCAVATE THE DITCH. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING UTILITY CONFLICTS WITH THE PROPOSED PLAN ELEVATION OF THE DITCH OR CONDUIT AND RESULTS IN A CHANGE IN THE PLAN SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTAINING 611 CONDUIT ITEM.

**ITEM 201 - CLEARING AND GRUBBING**

THIS ITEM SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE CLEARING AND GRUBBING FOR THE CULVERT AND THE REMOVAL OF VEGETATION FROM THE AREAS DESIGNATED FOR EMBANKMENT WIDENING. IT SHALL BE PAID FOR AS A LUMP SUM.

**ITEM 202 PIPE REMOVED**

THIS ITEM SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE REMOVAL AND DISPOSAL OF THE 48" EXISTING PIPES AND THE HEADWALLS.

**ITEM 203 QUADRANT REMOVED**

THE QUADRANT SHALL BE REMOVED FROM THE BEGINNING OF THE RUN AT STATION 136+38 TO STATION 141+00, AND FROM STATION 141+21 TO STATION 142+81 ON THE LEFT SIDE OF THE ROADWAY, AND FROM STATION 138+175 TO STATION 137+80 ON THE RIGHT SIDE OF THE ROADWAY. THE POLE HOLES SHALL BE FILLED AND COMPACTED WITH MATERIAL EXCAVATED FROM REMOVAL OF THE CULVERT OR FROM ITEM 203 BORROW.

**ITEM 203 - BORROW**

THIS ITEM SHALL INCLUDE SUPPLYING, PLACING AND COMPACTING MATERIAL (CLAY) FOR THE WIDENING OF THE ROADWAY EMBANKMENT. THE MATERIAL SHALL BE APPROVED BY THE ENGINEER PRIOR TO ITS USE. THE EMBANKMENT SHALL BE CONSTRUCTED AT A 8:1 SLOPE AND THEN TRANSITION TO THE SLOPES SHOWN IN THE PROFILE VIEW OF THE CULVERT. THE EMBANKMENT WIDENING LIMITS (TOP OF SLOPE) INDICATES THE APPROXIMATE POINT OF INTERSECTION OF THE SLOPE WITH THE EXISTING GROUND SURFACE. THE METHOD OF COMPACTATION SHALL BE APPROVED BY THE ENGINEER.

**ITEM 203 - DITCH RELOCATION**

UPON COMPLETION OF THE EMBANKMENT WIDENING, THE CONTRACTOR SHALL RELOCATE THE EXISTING DITCHES OR STREAMS, AS SHOWN ON SHEETS 4 AND 5.

**ITEM 301 - ASPHALT CONCRETE BASE, PG. 84-22**

**ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG. 84-22**

THE CONTRACTOR SHALL PLACE A MINIMUM OF SIX INCHES (6") OF ITEM 301 ASPHALT CONCRETE BASE, PG. 84-22, IN MAXIMUM LIFTS OF THREE INCHES (3") EACH, ON TOP OF THE LSW FOLLOWED BY ONE AND ONE-HALF INCHES (1.5") OF ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG. 84-22. THE CONTRACTOR SHALL USE A COMPACTOR METHOD THAT IS ACCEPTABLE TO THE ENGINEER.

**ITEM 503 - COFFERDAMS AND EXCAVATION BRACING**

ALL COSTS ASSOCIATED WITH CONTROL OF THE WATER FOR THIS PROJECT SHALL BE INCLUDED IN THIS ITEM.

**ITEM 601 - ROCK CHANNEL PROTECTION, TYPE A**

THE CONTRACTOR SHALL PLACE THE ROCK CHANNEL PROTECTION AT THE OUTLET OF THE CULVERTS AS SHOWN IN THE PLANS. THIS ITEM SHALL BE MEASURED BY THE CUBIC YARD, COMPLETED AND ACCEPTED IN PLACE ACCORDING TO THE DIMENSIONS SHOWN IN THE PLANS.

**ITEM 602 - CONCRETE MASONRY**

THIS ITEM CONSISTS OF THE CONCRETE HEADWALLS FOR THE 15", 24" AND 48" CONDUITS.

**ITEM 608 - ANCHOR ASSEMBLY, TYPE E-88**

AFTER REMOVAL OF A PORTION OF THE EXISTING QUADRANT, RUN ON THE SOUTH SIDE OF THE ROAD, A TYPE E-88 ANCHOR ASSEMBLY SHALL BE INSTALLED AT THE END OF THE REMAINING QUADRANT.

**ITEM 611 CATCH BASIN, No. 2-3**

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A 2-3 CATCH BASIN, INCLUDING POURING THE INVERT, GRATE AND INSTALLING SLEET PROTECTION.

**ITEM 611 15" CONDUIT, TYPE C, 707.33**

THIS ITEM SHALL CONSIST OF INSTALLING THE 15" CONDUIT INTO THE MANHOLE AS SHOWN ON SHEET 4 OF THE PLANS.

**ITEM 611 24" CONDUIT, TYPE C, 707.33**

THIS ITEM SHALL CONSIST OF INSTALLING THE 24" CONDUIT FROM THE 2-3 CATCH BASIN TO THE ROCK CHANNEL PROTECTION SHOWN ON SHEET 4 OF THE PLANS.

**ITEM 611 48" CONDUIT, TYPE C, 707.33**

THIS ITEM SHALL CONSIST OF INSTALLING THE 48" CONDUIT INTO THE MANHOLES AS SHOWN ON SHEETS 4 AND 5 OF THE PLANS. IT SHALL INCLUDE PREMIUM BACKFILL THROUGH THE DRIVEWAY AT 8730 PEKIN ROAD.

**ITEM 611 - 48" CONDUIT, TYPE A, 706.02**

THE CONTRACTOR SHALL CONSTRUCT THE NEW STRUCTURE AND PROVIDE ALL OTHER IMPROVEMENTS IN CONFORMITY WITH THE LINES AND GRADES AS SHOWN ON SHEETS 4 AND 5. THE EXCAVATION LIMITS FOR THE CONDUIT, AS SHOWN ON THE PLANS, ARE APPROXIMATE AND WILL VARY DEPENDING ON HOW THE CONTRACTOR PERFORMS HIS WORK. ALL COSTS FOR LOADING, TRANSPORTING, PLACEMENT AND COMPACTING OF THE EXCAVATED MATERIAL, AS SHOWN ON THE PLANS AND DISPOSAL OF SURPLUS MATERIAL SHALL BE INCLUDED IN THE 611 CONDUIT ITEM.

LOW STRENGTH WORTHAM BACKFILL (LSM) IS REQUIRED WITHIN THE LIMITS OF THE PROPOSED ROADWAY. THE ESTIMATED QUANTITY OF THIS MATERIAL SHOWN IN THE CONSTRUCTION PLANS IS BASED ON THE LINES, SLOPES AND EXCAVATION LIMITS SHOWN. THIS QUANTITY MAY VARY DEPENDING ON THE CONTRACTOR'S EXCAVATION METHODS AND LIMITS. THE CONTRACTOR, AT NO ADDITIONAL EXPENSE, SHALL PROVIDE ADDITIONAL BACKFILL MATERIAL TO GEAUGA COUNTY IF THE EXCAVATION LIMITS EXCEED THOSE SHOWN ON THE PLANS.

**ITEM 611 MANHOLE, No. 3**

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING THREE (3) SIX FOOT (6') DIAMETER MANHOLES, INCLUDING STAIRS, POURING THE INVERTS, IF REQ'D AND GRATES, AND INSTALLING SLEET PROTECTION.

**ITEM 614 MAINTAINING TRAFFIC**

THE CONTRACTOR SHALL POST THE DETOURS AS SHOWN IN THE PROJECT PLANS. THE ROADWAY SHALL BE CLOSED TO TRAFFIC DURING THE PROJECT. THE LENGTH OF THE CLOSURE SHALL BE KEPT TO A MINIMUM AND IS SUBJECT TO APPROVAL BY THE COUNTY ENGINEER.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ODOT ITEM 614 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. ALL TRAFFIC CONTROL DEVICES SHALL BE PLACED TO THE SATISFACTION OF THE ENGINEER. THE SIGN QUANTITIES ARE THE MINIMUM NUMBER TO BE INSTALLED. ADDITIONAL SIGNS MAY BE REQUIRED AND INSTALLED AS DIRECTED BY THE ENGINEER.

**ITEM 617 COMPACTED AGGREGATE (RACP)**

THIS ITEM SHALL CONSIST OF PLACING RECYCLED ASPHALT CONCRETE PAVEMENT TO RECONSTRUCT THE ROADWAY SHOULDERS WITHIN THE LIMITS OF THE EXCAVATION FOR THE CULVERT, AND ALONG THE EDGE OF THE ROAD IN FRONT OF THE EMBANKMENT WIDENING AREAS.

**ITEM 623 CONSTRUCTION LAYOUT STAKES AND SURVEY MONUMENTS, AS PER PLAN**

ALL PROPERTY CORNER MONUMENTATION THAT MAY BE DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REFERENCED AND RESET BY A SURVEYOR LICENSED IN THE STATE OF OHIO.

**ITEM 650 SEEDING AND MULCHING, CLASS 1**

COMMERCIAL FERTILIZER SHALL BE APPLIED AT ALL PERMANENT SEEDING AND MULCHING AREAS IN ACCORDANCE WITH ODOT SPEC. 658.04. THE CONTRACTOR SHALL INCLUDE THE COST OF THE COMMERCIAL FERTILIZER IN THE UNIT PRICE BID FOR 659 SEEDING AND MULCHING ITEM.

**ITEM 671 EROSION CONTROL MAT, TYPE C**

THIS ITEM INCLUDES PROVIDING THE SEED, MULCH AND FERTILIZER AS WELL AS THE EROSION CONTROL MAT AS PER SECTION 671.01 OF ODOT'S CIVIL MANUAL. IT SHALL BE PLACED IN THE DITCH BOTTOMS AND THE STEEPER SLOPES AS DIRECTED BY THE ENGINEER.

**ITEM 832 - PERIMETER FILTER FABRIC FENCE**

PERIMETER FILTER FABRIC FENCE SHALL BE INSTALLED AND MAINTAINED AS DIRECTED BY THE ENGINEER FOR EROSION AND SEDIMENTATION CONTROL.

**ITEM 832 - STRAW AND/OR HAY BALES**

STRAW AND/OR HAY BALES SHALL BE INSTALLED AND MAINTAINED AS DIRECTED BY THE ENGINEER FOR EROSION AND SEDIMENTATION CONTROL.

ITEM	DESCRIPTION	ESTIMATED QUANTITIES	COMMENTS
201	CLEARING AND GRUBBING	LUMP	
202	PIPE REMOVED, OVER 24"	210 FEET	210'-48" CMP & ROP, INCLUDES HEADWALLS
203	QUADRANT REMOVED	788 FEET	BACKFILL POLE HOLES WITH BORROW
203	BORROW	900 CY	AS DIRECTED BY THE ENGINEER
203	DITCH RELOCATION	210 FEET	
301	ASPHALT CONCRETE BASE, PG. 84-22	8.0 CY	TO BE PLACED IN MAXIMUM LIFTS OF 3"
441	ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448) PG. 84-22	3.0 CY	
503	COFFERDAMS AND EXCAVATION BRACING	LUMP	
601	ROCK CHANNEL PROTECTION, TYPE A	48.0 CY	
602	CONCRETE MASONRY	51 CY	HW-23 HEADWALLS
608	ANCHOR ASSEMBLY, TYPE E-88	1 EACH	
611	15" CONDUIT, TYPE C, 707.33	40.0 FEET	
611	24" CONDUIT, TYPE C, 707.33	72.0 FEET	
611	48" CONDUIT, TYPE C, 707.33	280.0 FEET	
611	48" CONDUIT, TYPE A, 706.02	104.0 FEET	
611	CATCH BASIN, No. 2-3	3 EACH	INCLUDES GRATE
611	MANHOLE, No. 3	3 EACH	IF DIA. INCLUDES 6" RISER AND GRATE
617	COMPACTED AGGREGATE (RACP)	13.0 CY	
623	CONSTRUCTION LAYOUT STAKES AND SURVEY MONUMENTS, AS PER PLAN	1 LUMP	
650	SEEDING AND MULCHING, CLASS 1	950 SF	
671	EROSION CONTROL MAT, TYPE C	850.0 SF	AS DIRECTED BY THE ENGINEER
832	PERIMETER FILTER FABRIC FENCE	300 FEET	AS DIRECTED BY THE ENGINEER
832	STRAW AND/OR HAY BALES	20 EACH	AS DIRECTED BY THE ENGINEER

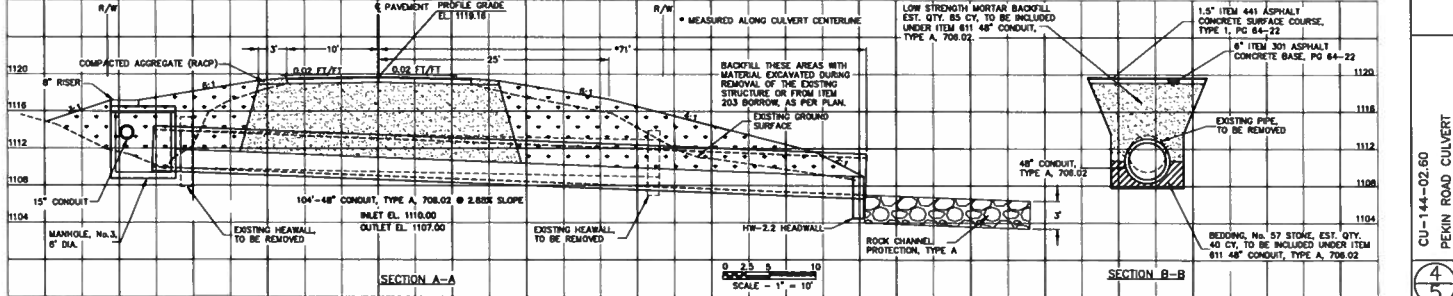
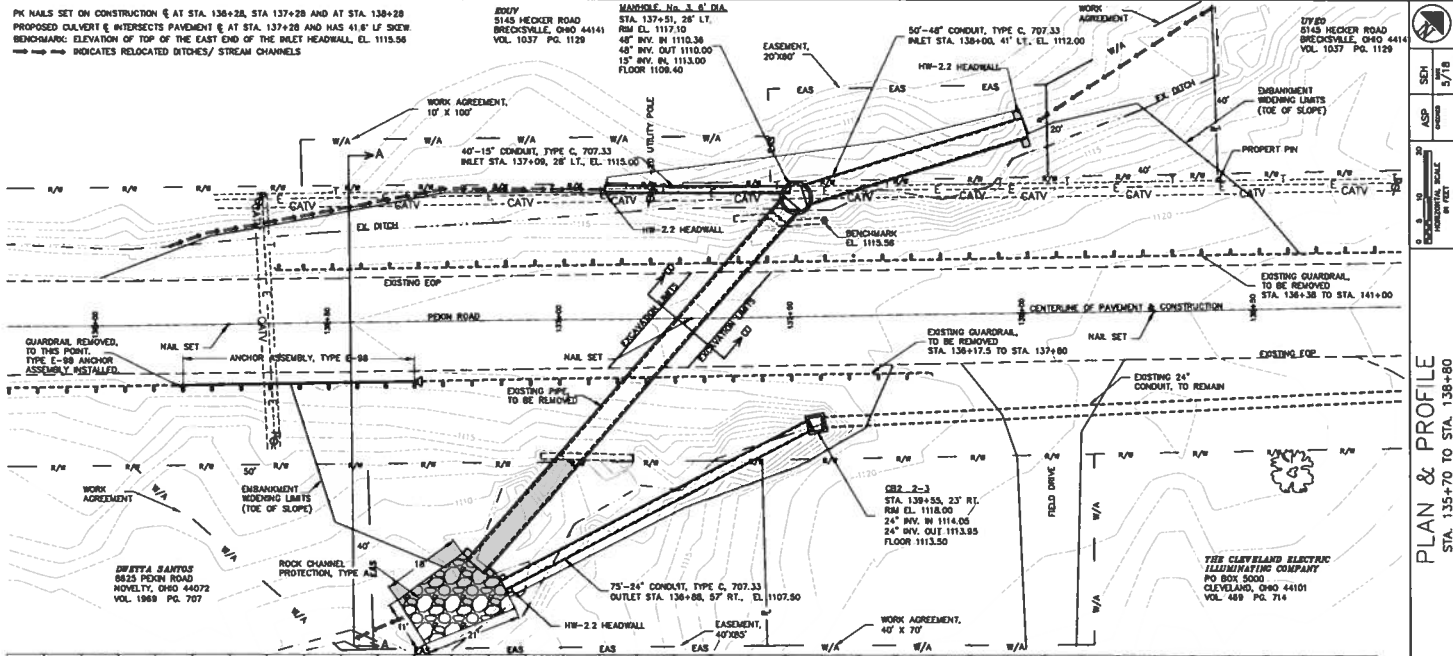
PK NAILS SET ON CONSTRUCTION @ AT STA. 136+28, STA. 137+28 AND AT STA. 138+28  
 PROPOSED CULVERT @ INTERSECTS PAVEMENT @ AT STA. 137+28 AND HAS 41.8' LF SLOPE  
 BENCHMARK: ELEVATION OF TOP OF THE EAST END OF THE INLET HEADWALL, EL. 1115.56  
 →→→→→ INDICATES RELOCATED DITCHES/ STREAM CHANNELS

BODY  
 5145 HECKER ROAD  
 BUCKSVILLE, OHIO 44114  
 VOL. 1037 PG. 1129

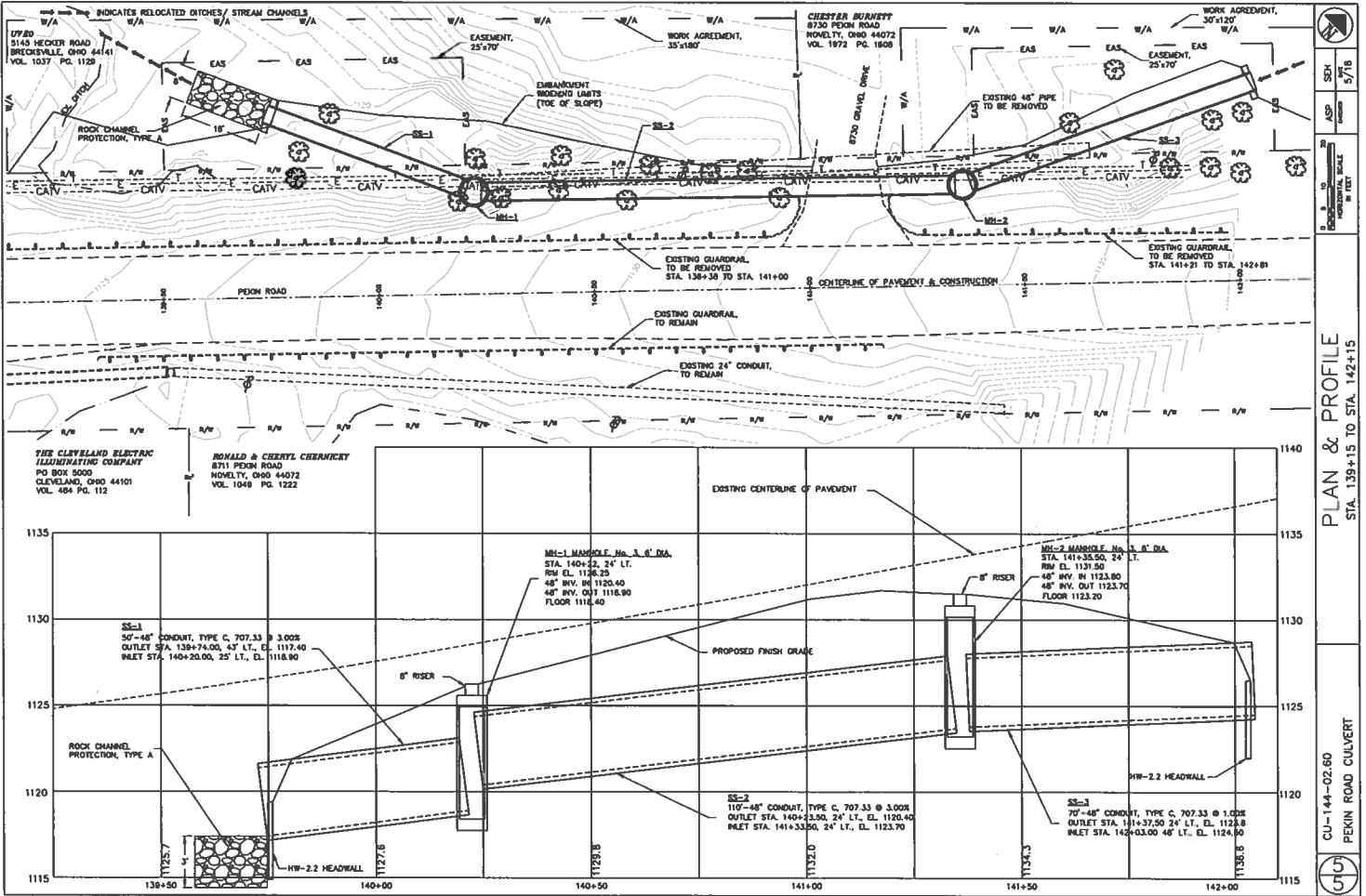
MANHOLE No. 3 6" DIA.  
 STA. 137+51, 28' LT.  
 RM EL. 1117.10  
 48" INV. IN 1110.36  
 48" INV. OUT 1110.00  
 15" INV. BK. 1113.00  
 FLOOR 1108.40

50'-48" CONDUIT, TYPE C, 707.33  
 INLET STA. 136+00, 41' LT., EL. 1112.00

5145 HECKER ROAD  
 BUCKSVILLE, OHIO 44114  
 VOL. 1037 PG. 1129



SECTION  
 DATE  
 5/7/18  
 PLAN & PROFILE  
 STA. 135+70 TO STA. 138+80  
 CU-144-02.60  
 PEKIN ROAD CULVERT  
 4  
 5



**Office of the Geauga County Engineer  
ESTIMATE OF COST  
Russell Township, Geauga County  
CU-144-02.60-18**

ASP 5/14/2018

Scope of Work:

- Remove existing 210' of 48" pipe and headwalls
- Install 104' of 48" reinforced concrete pipe, 280' of 48" HDPE pipe and 3- 6' manholes
- Install 80' of 24" HDPE pipe and catch basin, and 40' of 15" HDPE pipe
- Widen the embankment using 6:1 slopes to eliminate guardrail
- Restore the asphalt pavement and seed and mulch

<i>Item</i>	<i>Description</i>	<i>Quantity</i>	<i>Unit Price</i>	<i>Total Price</i>
103	Contract and Performance Bond	1 LUMP	1700.00	\$ 1,700.00
201	Clearing and Grubbing	1 LUMP	3500.00	\$ 3,500.00
202	Pipe Removed, Over 24"	210 FEET	25.00	\$ 5,250.00
202	Guardrail Removed	788 FEET	4.00	\$ 3,152.00
203	Borrow	900 CY	24.00	\$ 21,600.00
203	Ditch Relocation	210 FEET	10.00	\$ 2,100.00
301	Asphalt Concrete Base, PG 64-22	8.0 CY	350.00	\$ 2,800.00
441	Asphalt Concrete Surface Course, Type 1, (448) PG 64-22	2.0 CY	400.00	\$ 800.00
503	Cofferdams and Excavation Bracing	1 LUMP	3198.00	\$ 3,198.00
601	Rock Channel Protection, Type A	46.0 CY	150.00	\$ 6,900.00
602	Concrete Masonry	5.1 CY	1000.00	\$ 5,100.00
606	Anchor Assembly, Type E-98	1 EACH	3000.00	\$ 3,000.00
611	15" Conduit, Type C, 707.33	40.0 FEET	45.00	\$ 1,800.00
611	24" Conduit, Type C, 707.33	75.0 FEET	80.00	\$ 6,000.00
611	48" Conduit, Type C, 707.33	280.0 FEET	165.00	\$ 46,200.00
611	48" Conduit, Type A, 706.02	104.0 FEET	275.00	\$ 28,600.00
611	Catch Basin, No. 2-3	1 EACH	1500.00	\$ 1,500.00
611	Manhole, No. 3	3 EACH	2700.00	\$ 8,100.00
614	Maintaining Traffic	1 LUMP	3500.00	\$ 3,500.00
617	Compacted Aggregate (RACP)	13.0 CY	100.00	\$ 1,300.00
623	Construction Layout Stakes and Survey Monuments, As Per Plan	1 LUMP	1000.00	\$ 1,000.00
624	Mobilization	1 LUMP	4000.00	\$ 4,000.00
659	Seeding and Mulching, Class 1	950 SY	4.00	\$ 3,800.00
671	Erosion Control Mat, Type C	850.0 SY	4.00	\$ 3,400.00
832	Perimeter Filter Fabric Fence	500 FEET	3.00	\$ 1,500.00
832	Straw and/or Hay Bales	20 EACH	10.00	\$ 200.00
<b>TOTAL</b>				<b>\$ 170,000.00</b>

**RUSSELL TOWNSHIP  
GEAUGA COUNTY, OHIO**

Bid Specifications

**CU-144-02.60-18**

**The Replacement of the Pekin Road Culvert  
Structure #144-02.60**

Bids Received By: June 11, 2018  
11:00 A.M.

Bids Opened: June 11, 2018  
11:05 A.M.

Russell Township Administration Building  
c/o Karen Walder  
8501 Kinsman Road  
Novelty, OH 44072



**LEGAL NOTICE**  
Russell Township

Notice is hereby given that sealed bids will be received by the Russell Township Board of Trustees, c/o Karen Walder, Fiscal Officer, 8501 Kinsman Road, Novelty, Ohio 44072 until **11:00 A.M.** official local time on **Monday, June 11, 2018**. Bids received will be publicly opened and read aloud at **11:05 A.M.** the same day at the Russell Township Administration Building for **The Replacement of the Pekin Road Culvert, Structure #144-02.60**. The Engineer's estimate for this project is **\$170,000.00**.

Copies of the surveys, plans, profiles, cross sections and specifications are on file with the Board of Trustees and may be obtained digitally online at <http://www.co.geauga.oh.us/Departments/Engineer/OnlinePlans.aspx> or a hardcopy is available at the Geauga County Engineer's Office, 12665 Merritt Road, Chardon, OH 44024.

A copy of this legal notice is posted on the county's internet site on the World Wide Web. Go to <http://www.co.geauga.oh.us/Bids.aspx> and click on the project name to view this legal.

A bid guaranty in the amount of one hundred (100%) percent of the bid amount or a certified check, cashier's check or letter of credit pursuant to Chapter 1305 of the Ohio Revised Code in the amount of ten (10%) percent of the total bid amount shall accompany each bid. The bid shall be let upon a unit price basis.

Bids may be held by the Russell Township Board of Trustees for a period not to exceed sixty (60) days from the date of opening, for the purpose of reviewing the bids and investigating the qualifications of bidders, prior to awarding the contract.

The Russell Township Board of Trustees reserves the right to reject any and all bids, to waive any informalities or irregularities in the bids received, and to accept any bid or bids which are deemed most favorable to the Board at the time and under conditions stipulated, all in accord with the applicable provisions of laws of the State of Ohio governing the conduct of the Russell Township Board of Trustees.

**BY THE ORDER OF THE RUSSELL TOWNSHIP BOARD OF TRUSTEES**

Karen Walder, Fiscal Officer

Publish: May 24, 2018

## **DESCRIPTION OF WORK**

**The Replacement of the Pekin Road Culvert  
Structure #144-02.60  
Russell Township  
Geauga County**

### **Section 1 General**

*The Construction and Material Specifications* dated 2016 published by the Ohio Department of Transportation (ODOT) and the *Modifications to the Ohio Department of Transportation's 2016 Construction and Material Specifications for Geauga County* dated 2018 shall govern this project except where otherwise noted in this Specification Booklet. The *Standard Contract Provisions for Contracts Prepared by the Geauga County Engineer's Office* dated 2018 shall govern the contractual agreement for this project. These Documents are available on the Geauga County Engineer's Web Site, go to <http://www.co.geauga.oh.us/Departments/Engineer/Documents.aspx> to view these documents or they may be picked up at the Engineer's Office. The requirements of Section 4115 of the Ohio Revised Code with regards to prevailing wages shall be followed for this project.

The project shall include replacement of an existing 48" corrugated metal pipe culvert with 104' of 48" reinforced concrete pipe culvert and replacement of a ditch enclosure with 280' of 48" HDPE pipe. The roadway embankment shall be widened to eliminate the guardrail.

No loads of any material shall be accepted if the truck is overloaded. The Contractor shall obey all state and local regulations regarding weight limits. Permits will need to be obtained from Geauga County as well as the State of Ohio for any vehicle exceeding the legal weight, width, height or length limits.

### **Section 2 Inspection and Notification**

A pre-construction conference will be scheduled by the Engineer with the Contractor prior to the start of construction. The Contractor shall submit a detailed Schedule of Operations for approval prior to the pre-construction meeting. The Contractor shall notify the Engineer at least seven (7) days in advance of the beginning of construction, so the Engineer may schedule the inspection and prepare the project information signing.