

INDEX OF SHEETS

1	COVER SHEET
2	GENERAL NOTES, COMMITMENTS & PROJECT SPECIFIC NOTES
3-5	SUMMARY OF QUANTITIES
6-7	TYPICAL SECTIONS
8-9	SCHEDULE OF QUANTITIES
10	CROSS TIES AND BENCHMARK DETAILS
11-12	PLAN & PROFILE
13	DETOUR PLAN
14	TRAFFIC CONTROL DETAILS
15	PROPOSED ROW
16	GRADING PLAN
17	EROSION CONTROL PLAN
18-19	INTERSECTION DETAILS - HORIZONTAL & VERTICAL CONTROL
20	INTERSECTION PAVEMENT JOINT DETAILS
* 21-26	STRUCTURE PLANS
27-28	CROSS SECTIONS - C.H.10
29-32	CROSS SECTIONS - IL 242
33	DISTRICT 9 CADD STANDARDS 24" PCC PAVEMENT OVER BOX CULVERT ILLINOIS DOT HIGHWAY STANDARDS

\* INCLUDES SHEET 21A

FOR SUMMARY OF QUANTITIES, SEE SHEET NOS. 3-5

DESIGN DESIGNATION: NA

COORDINATE SYSTEM: ILLINOIS COORDINATE SYSTEM, EAST ZONE

POSTED SPEED: 55 MPH

ADT = 600 (2017) (BLAIRSVILLE ROAD)

% SU = 40 (2017)

% MU = 10 (2017)

TOWNSHIP: SOUTH CROUCH

FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER: DAVID PICHE 1-618-351-5227

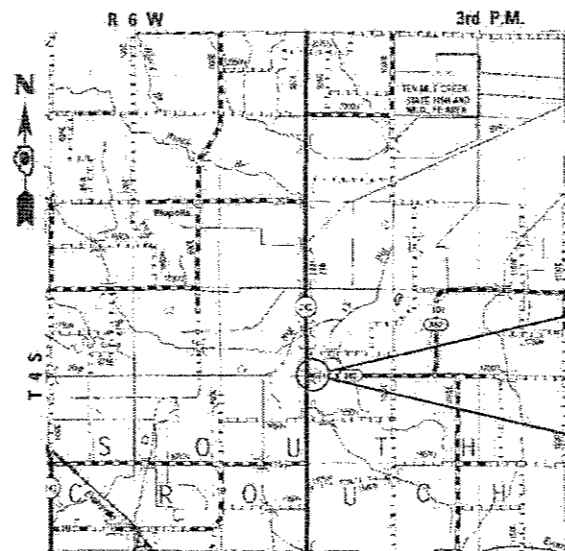
CONTRACT NO. 78080

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PROPOSED  
HIGHWAY PLANS

FAS 882 (C.H. 10) – BLAIRSVILLE ROAD  
SECTION 102B-3  
PROJECT STP BK15(046)  
HAMILTON COUNTY  
C-99-067-08

STRUCTURE REPLACEMENT OVER UNNAMED STREAM



LOCATION PLAN

NET LENGTH OF PROJECT = 129.00 FEET = 0.024 MILES (BLAIRSVILLE ROAD)

EXISTING SN 033-0024  
STA. 10+57.61

PROPOSED SN 033-2009  
STA. 10+62.75

BEGIN PROJECT  
STA. 10+13 (C.H. 10)

END PROJECT  
STA. 11+42 (C.H. 10)

F.A.S. 1	SECTION	COUNTY	TOTAL SHEETS
882	102B-3	HAMILTON	33*
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 78080	

\* 33 + 1 = 34 TOTAL SHEETS

D-99-049-08



LOCATION OF SECTION INDICATED THIS: -

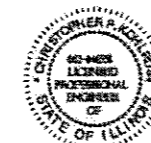
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED Jan 30 20 18

Jeffrey R. Keenan  
REGIONAL ENGINEER

20 \_\_\_\_\_  
ENGINEER OF DESIGN AND ENVIRONMENT

20 \_\_\_\_\_  
DIRECTOR OF PROGRAM DEVELOPMENT



Christopher P. Kobbins 1/17/18  
EXPIRATION: 11/30/2019

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OF THE STATE OF ILLINOIS

REV. 4-18-2018

**V&K**  
Veenstra & Kimm, Inc.  
Springfield, IL. Phone: (217)544-8033  
IL Design Firm No. 184-001939

CODE NO.	ITEM	UNIT	COUNTY: HAMILTON	
			TOTAL QUANTITY	SN 033-2009 0010
28200200	FILTER FABRIC	SQ YD	193	193
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	135	135
42000211	PORTLAND CEMENT CONCRETE PAVEMENT 7 1/2" (JOINTED)	SQ YD	553	553
44000100	PAVEMENT REMOVAL	SQ YD	253	253
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	584	584
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50105220	PIPE CULVERT REMOVAL	FOOT	14	14
51500100	NAME PLATES	EACH	1	1
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2
54011206	PRECAST CONCRETE BOX CULVERTS 12' X 6'	FOOT	163	163
X1200189	PRECAST CONCRETE BOX CULVERTS 15' X 6' (SPECIAL) <sup>⚠</sup>	FOOT	81.5	81.5
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	456	456
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	94	94
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
63200310	GUARDRAIL REMOVAL	FOOT	126	126

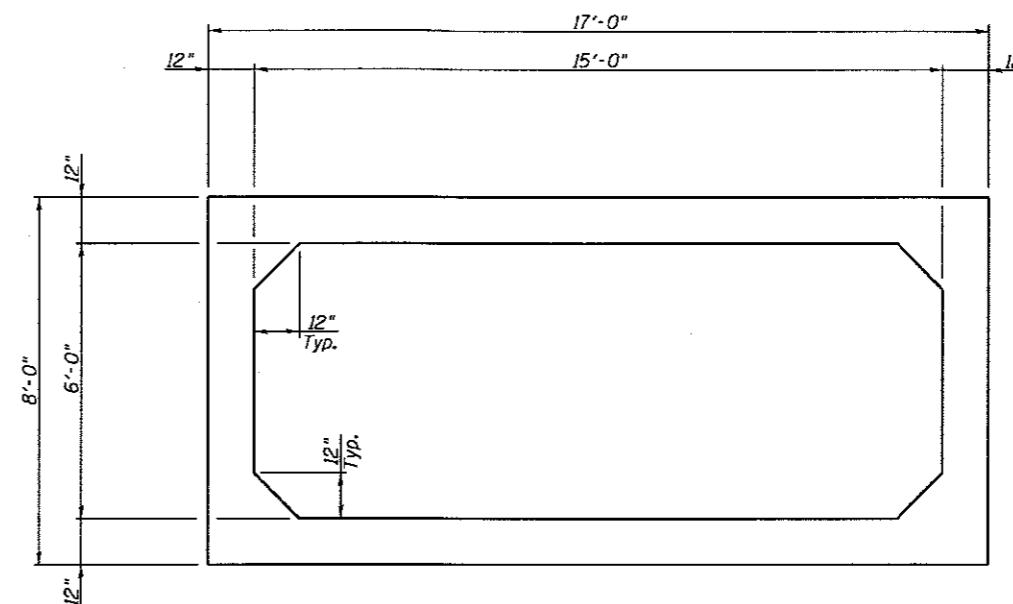
\* SPECIALTY ITEM

⚠ REV. 4-18-2018

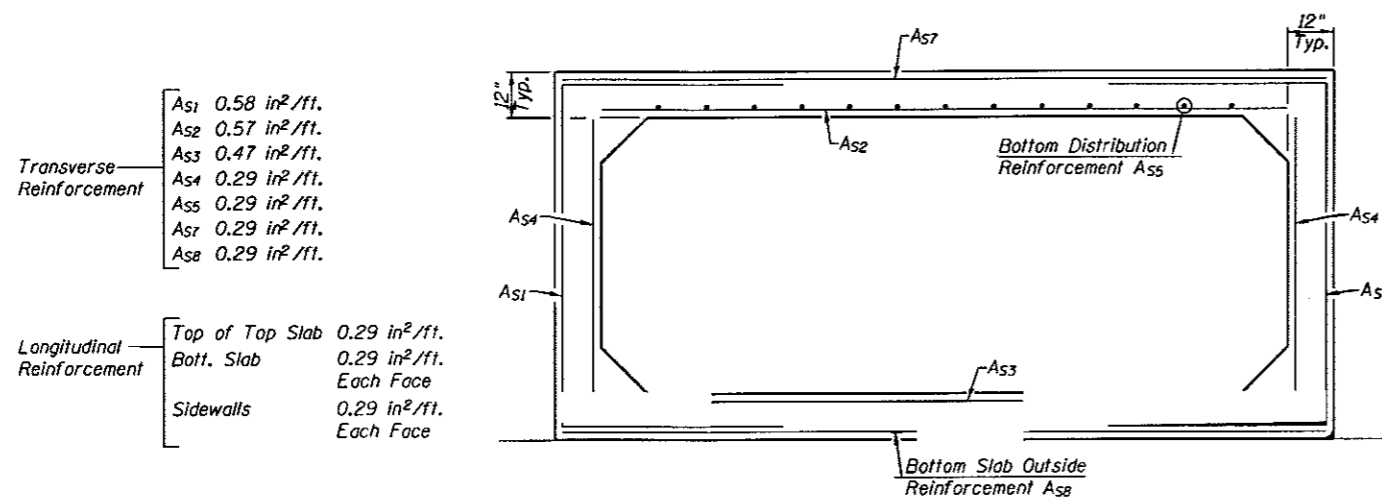


**GENERAL NOTES**

1. Precast Concrete Culverts, 15'x6' (Special) shall conform to the requirements of Article 540.06 of the Standard Specifications, the applicable requirements of AASHTO M 259 and ASTM C1577-17.  
The minimum precast concrete strength shall be 5,000 psi.  
Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.  
Fill varies from 0.5' to 1.5' within limits of roadway.
2. Contractor shall maintain streamflow in accordance with the Standard Specifications Article 502.
3. Diversion and Construction activities shall not be permitted to cause water levels upstream to rise more than the amount allowed per the drainage study.
4. Cover from face of precast concrete reinforcement bars shall be 2" for the top of the top slab, and 1" for all other surfaces.
5. The reinforcement areas shown on this plan sheet were based on welded wire reinforcement (WWR). The contractor may use reinforcement bars in lieu of welded WWR. Reinforcement bars shall be limited to the sizes of #3 through #5 bars, and have a maximum spacing of the lesser of 8" or the member thickness. The reinforcement areas shown on this sheet shall be increased to account for the difference in steel yield strength in accordance with ASTM C1577, Section 12.6.



**SECTION THRU PRECAST BARREL**



**PRECAST BARREL REINFORCEMENT**

Transverse Reinforcement  
 As1 0.58 in<sup>2</sup>/ft.  
 As2 0.57 in<sup>2</sup>/ft.  
 As3 0.47 in<sup>2</sup>/ft.  
 As4 0.29 in<sup>2</sup>/ft.  
 As5 0.29 in<sup>2</sup>/ft.  
 As7 0.29 in<sup>2</sup>/ft.  
 As8 0.29 in<sup>2</sup>/ft.

Longitudinal Reinforcement  
 Top of Top Slab 0.29 in<sup>2</sup>/ft.  
 Bott. Slab 0.29 in<sup>2</sup>/ft. Each Face  
 Sidewalls 0.29 in<sup>2</sup>/ft. Each Face



USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PRECAST CONCRETE BOX CULVERTS  
15' X 6' (SPECIAL)**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
882	102B-3	HAMILTON	33	21A
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. 1A OF 6 SHEETS STA. TO STA.