

04-27-2018 LETTING ITEM 056

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33	DISTRICT 9 CADD STANDARDS 24' PCC PAVEMENT OVER BOX CULVERT ILLINOIS DOT HIGHWAY STANDARDS

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

DESIGN DESIGNATION: N/A

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

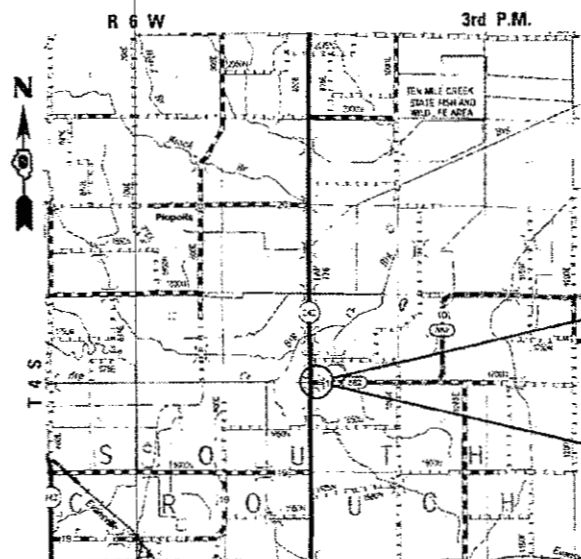
CONTRACT NO. 78080

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)

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

D-99-049-08



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Jan 30 20 18

Jeffrey A. Keim
REGIONAL ENGINEER

Mar 28 20 18
as E.A. Elk
ENGINEER OF DESIGN AND ENVIRONMENT

David P. Piche
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION



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

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OF THE STATE OF ILLINOIS**



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

GENERAL NOTES

- 1.) THE THICKNESS OF HOT-MIX ASPHALT MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- 2.) WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER OR AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- 3.) AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.
- 4.) THERE ARE NO AVAILABLE WASTE SITES ON THE EXISTING RIGHT OF WAY WITHIN THE PROJECT LIMITS. DISPOSAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
- 5.) THE DISTRICT BUREAU OF OPERATIONS SHALL BE NOTIFIED AT LEAST 21 DAYS PRIOR TO CLOSING BLAIRSVILLE RD.
- 6.) PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHALL CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.
- 7.) ONLY THOSE TREES LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES, PLANTS, AND WETLANDS FROM DAMAGE. ALL TREES AND STUMPS INDICATED ON THE PLANS FOR REMOVAL SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- 8.) REMOVAL OF EXISTING AGGREGATE SHOULDERS SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

COMMITMENTS

- 1.) LETTER OF UNDERSTANDING WITH HAMILTON COUNTY ALLOWING A TWO WEEK CLOSURE OF BLAIRSVILLE ROAD BETWEEN JULY 15TH AND SEPTEMBER 15TH.

MIXTURE REQUIREMENTS

LOCATIONS:	HOT-MIX ASPHALT SHOULDERS (TOP LIFT)
MIXTURE USE (S):	HOT MIX ASPHALT SHOULDERS, IL-9.5L
AC/PG:	PG 64-22
ABR% (MAX):	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0%, 30 GYRATION DESIGN
MIX COMPOSITION (GRADATION)	IL-9.5L
FRICTION AGGREGATE	NONE
MIXTURE WEIGHT	112 LBS/SQ YD/IN
QUALITY MGMT PROGRAM	QC/QA

LOCATIONS:	HOT-MIX ASPHALT SHOULDERS (LOWER LIFTS)
MIXTURE USE (S):	HOT MIX ASPHALT SHOULDERS, IL-19.0L
AC/PG:	PG 64-22
ABR% (MAX):	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0%, 30 GYRATION DESIGN
MIX COMPOSITION (GRADATION)	IL-19.0L
FRICTION AGGREGATE	NONE
MIXTURE WEIGHT	112 LBS/SQ YD/IN
QUALITY MGMT PROGRAM	QC/QA

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE THE PLAN QUANTITIES:

HOT-MIX ASPHALT	2.016 TON/CU. YD.
AGGREGATE MATERIAL	2.05 TON/CU. YD.
RIPRAP	1.5 TON/CU. YD.
ROCKFILL - FOUNDATION	1.89 TON/CU. YD.
EARTH	110 LBS/CU. FT.

STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-09 PAVEMENT JOINTS
- 420101-06 24' (7.2 m) JOINTED PCC PAVEMENT
- 515001-03 NAME PLATE FOR BRIDGES
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630101-10 STRONG POST GUARDRAIL ATTACHED TO CULVERT
- 630201-07 PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-08 SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINAL
- 666001-01 RIGHT-OF-WAY MARKERS
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24' (600mm) FROM PAVEMENT EDGE
- 701011-04 OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
- 701901-07 TRAFFIC CONTROL DEVICES
- 725001-01 OBJECT AND TERMINAL MARKERS
- 729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

PREPARED BY:	<i>[Signature]</i> DISTRICT STUDIES AND PLANS ENGINEER
EXAMINED BY:	<i>[Signature]</i> DISTRICT LAND ACQUISITION ENGINEER
EXAMINED BY:	<i>[Signature]</i> DISTRICT PROGRAM DEVELOPMENT ENGINEER
EXAMINED BY:	<i>[Signature]</i> DISTRICT OPERATIONS ENGINEER
EXAMINED BY:	<i>[Signature]</i> DISTRICT PROJECT IMPLEMENTATION ENGINEER
EXAMINED BY:	<i>[Signature]</i> DISTRICT CONSTRUCTION ENGINEER
EXAMINED BY:	<i>[Signature]</i> DISTRICT MATERIALS ENGINEER



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	CHECKED -	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, COMMITMENTS & PROJECT SPECIFIC NOTES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
882	102B-3	HAMILTON	33	2
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				

COUNTY:	HAMILTON
ROUTE:	FAS 882 (BLAIRSVILLE RD)
FUNDING:	80% FED / 20% STATE
LOCATION:	RURAL
TOTAL QUANTITY	SN 033-2009 0010

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	14	14
20200100	EARTH EXCAVATION	CU YD	2985	2985
20700220	POROUS GRANULAR EMBANKMENT	CU YD	334	334
25000200	SEEDING, CLASS 2	ACRE	0.9	0.9
25000350	SEEDING, CLASS 7	ACRE	0.9	0.9
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	81	81
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	81	81
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	81	81
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1.8	1.8
25100115	MULCH, METHOD 2	ACRE	0.5	0.5
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1929	1929
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	90	90
28000305	TEMPORARY DITCH CHECKS	FOOT	66	66
28000400	PERIMETER EROSION BARRIER	FOOT	416	416
28100707	STONE DUMPED RIPRAP, CLASS A4	TONS	184	184

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

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

COUNTY:	HAMILTON
ROUTE:	FAS 882 (BLAIRSVILLE RD)
FUNDING:	80% FED / 20% STATE
LOCATION:	RURAL
TOTAL QUANTITY	SN 033-2009 0010

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
28200200	FILTER FABRIC	SO YD	193	193
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	135	135
42000211	PORTLAND CEMENT CONCRETE PAVEMENT 7 1/2" (JOINTED)	SO YD	553	553
44000100	PAVEMENT REMOVAL	SO YD	253	253
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SO 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'	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



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
882	1028-3	HAMILTON	33	4
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	COUNTY: HAMILTON	
			TOTAL QUANTITY	SN 033-2009 0010
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	4	4
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3
67100100	MOBILIZATION	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1063	1063
* 72000100	SIGN PANEL - TYPE 1	SQ FT	7	7
* 72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	23	23
* 72501000	TERMINAL MARKER DIRECT - DIRECT APPLIED	EACH	4	4
* 72900200	METAL POST - TYPE B	FOOT	12	12
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1063	1063
X0322128	MEMBRANE WATERPROOFING FOR BURIED STRUCTURES	SQ YD	436	436
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
X7015005	CHANGEABLE MESSAGE SIGN	CAL DAY	42	42
* Z0054406	ROCK FILL - FOUNDATION	TON	1056	1056

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* SPECIALTY ITEM



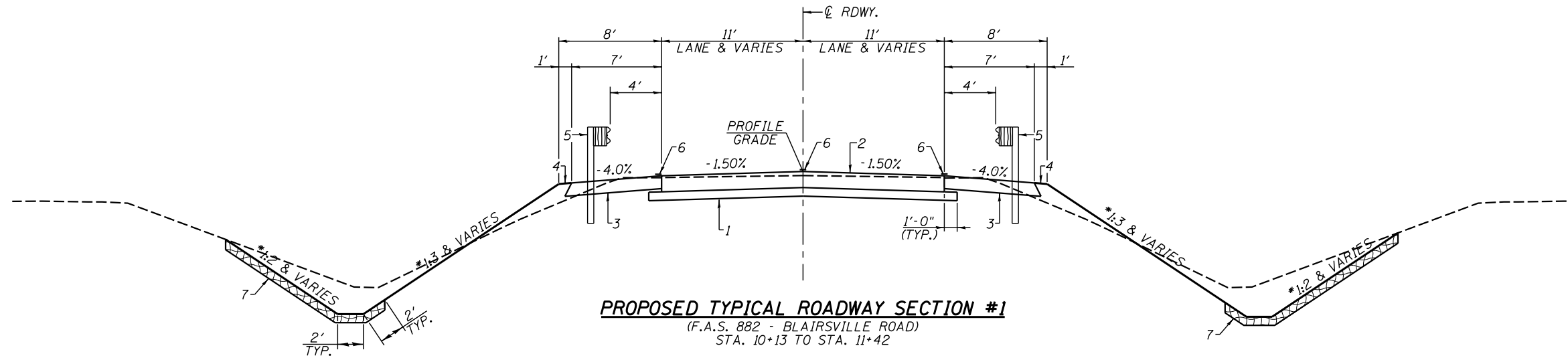
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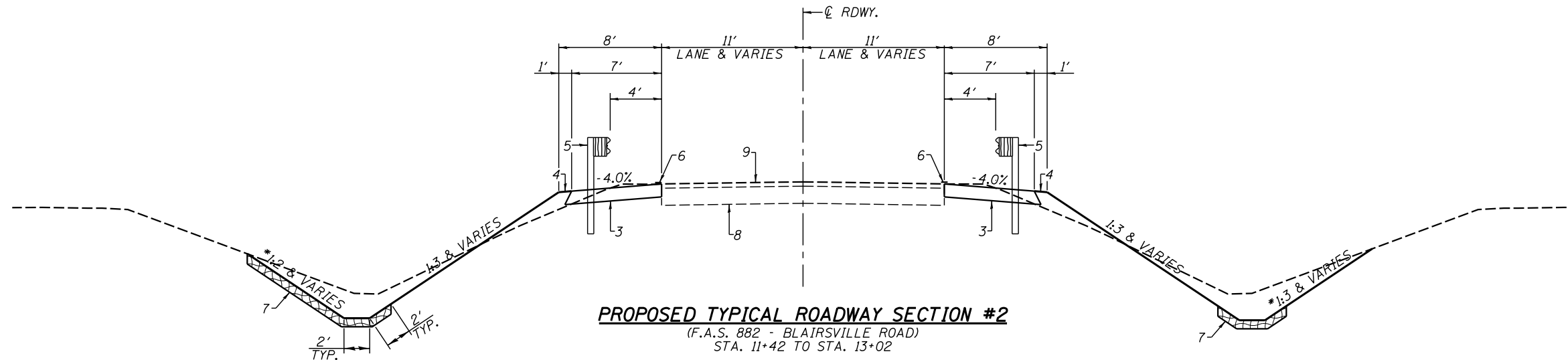
SUMMARY OF QUANTITIES

SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
882	102B-3	HAMILTON	33	5
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL ROADWAY SECTION #1
 (F.A.S. 882 - BLAIRSVILLE ROAD)
 STA. 10+13 TO STA. 11+42



PROPOSED TYPICAL ROADWAY SECTION #2
 (F.A.S. 882 - BLAIRSVILLE ROAD)
 STA. 11+42 TO STA. 13+02

* NOTE: HEAVY DUTY EROSION CONTROL BLANKET WILL BE INSTALLED ON ALL BACKSLOPES AND FORESLOPES STEEPER THAN 1:3

PROPOSED LEGEND

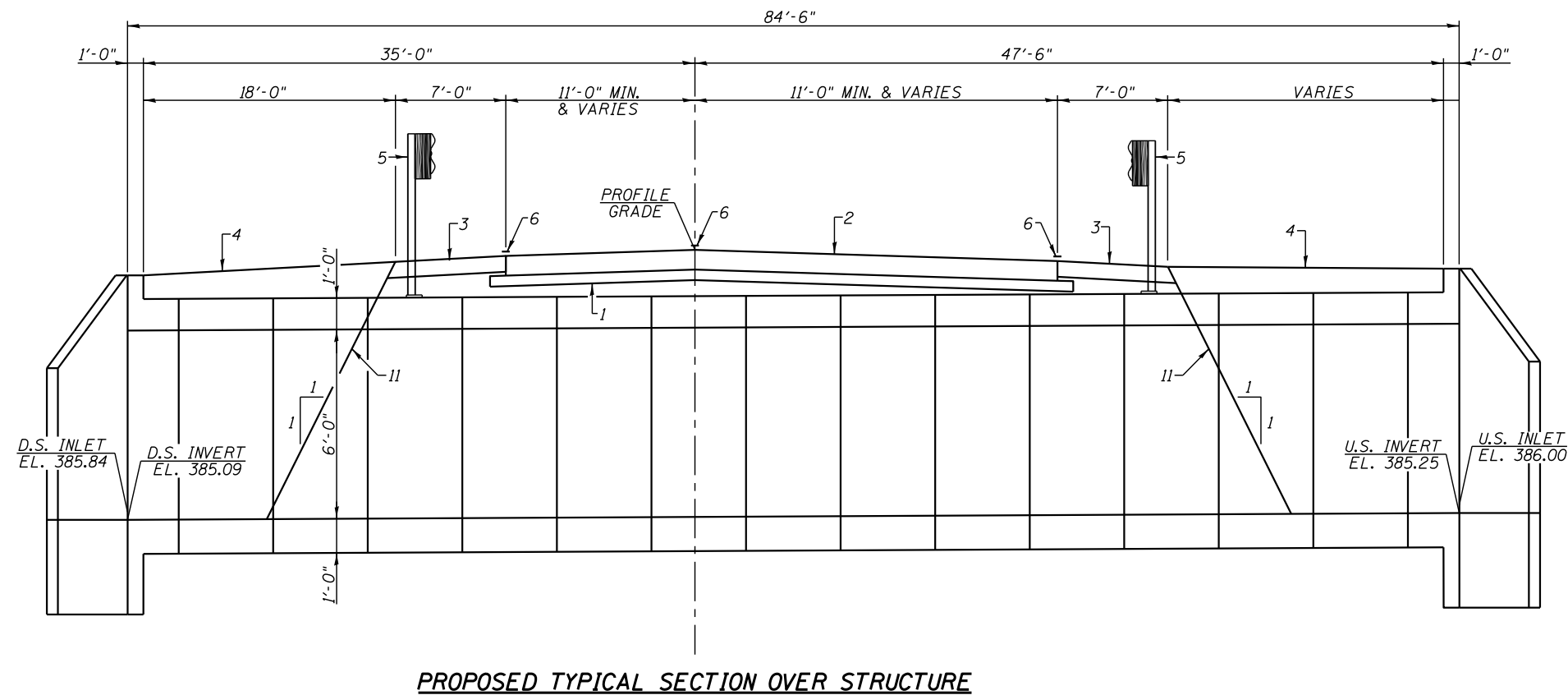
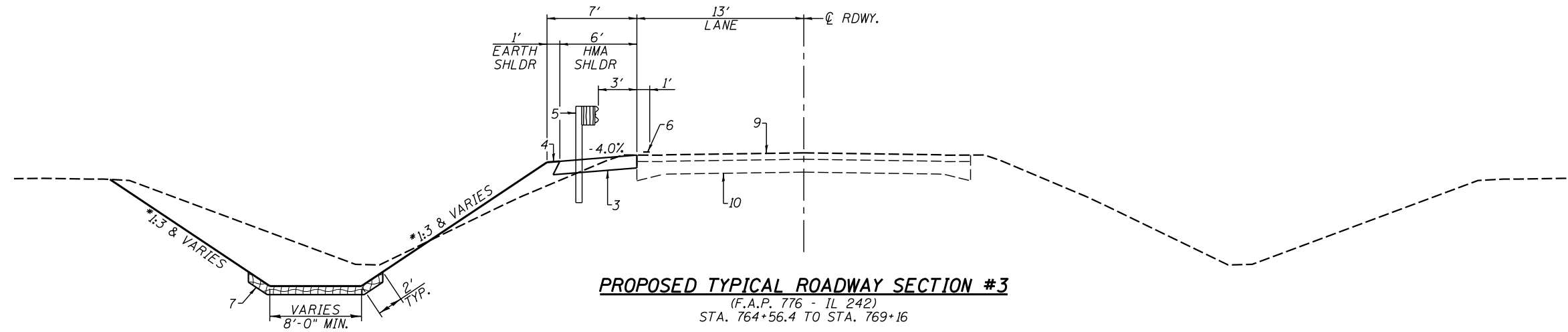
- 1 - PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 4" MIN.
- 2 - PROPOSED P.C.C. PAVEMENT 7 1/2" (JOINTED)
- 3 - PROPOSED HMA SHOULDER 6"
- 4 - PROPOSED EARTH SHOULDER
- 5 - PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A
- 6 - PROPOSED PAINT PAVEMENT MARKING - LINE 4"
- 7 - PROPOSED HEAVY DUTY EROSION CONTROL BLANKET
- 8 - EXISTING AGGREGATE BASE
- 9 - EXISTING HMA OVERLAY
- 10 - EXISTING CONCRETE BASE
- 11 - MAXIMUM PAY LIMITS OF POROUS GRANULAR EMBANKMENT (CA-7 OR CA-11 WITH THE TOP 1'-0" CONSISTING OF CA-10)



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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE:	SHEET NO. 1 OF 2 SHEETS	882	102B-3	HAMILTON	33	6
	STA. TO STA.	ILLINOIS FED. AID PROJECT		CONTRACT NO.		



* NOTE: HEAVY DUTY EROSION CONTROL BLANKET WILL BE INSTALLED ON ALL BACKSLOPES AND FORESLOPES STEEPER THAN 1:3

PROPOSED LEGEND

- 1 - PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 4" MIN.
- 2 - PROPOSED P.C.C. PAVEMENT 7 1/2" (JOINTED)
- 3 - PROPOSED HMA SHOULDER 6"
- 4 - PROPOSED EARTH SHOULDER
- 5 - PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A
- 6 - PROPOSED PAINT PAVEMENT MARKING - LINE 4"
- 7 - PROPOSED HEAVY DUTY EROSION CONTROL BLANKET
- 8 - EXISTING AGGREGATE BASE
- 9 - EXISTING HMA OVERLAY
- 10 - EXISTING CONCRETE BASE
- 11 - MAXIMUM PAY LIMITS OF POROUS GRANULAR EMBANKMENT (CA-7 OR CA-11 WITH THE TOP 1'-0" CONSISTING OF CA-10)



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
882	102B-3	HAMILTON	33	7
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

EARTHWORK				
LOCATION	20200100	EARTH	EMBANKMENT	EARTHWORK
	EARTH	EXCAVATION		BALANCE
	EXCAVATION	ADJUSTED FOR		WASTE (+) OR
	CU. YD.	SHRINKAGE	CU. YD.	SHORTAGE (-)
		CU. YD.	CU. YD.	CU. YD.
IL 242				
STA. 764+50 TO STA. 766+50, LT.	1132	849	50	+799
STA. 767+34 TO STA. 796+38, LT.	802	602	127	+475
BLAIRSVILLE ROAD (CH-10)				
STA. 10+13 TO STA. 13+50, LT. & RT.	1051	788	182	+606
TOTAL	2,985	2,239	359	+1880

PERMANENT SEEDING							
LOCATION	25000200	25000400	25000500	25000600	25000700	25100115	25100635
	SEEDING	NITROGEN	PHOSPHORUS	POTASSIUM	AGRICULTURAL	MULCH	HEAVY DUTY
	CLASS 2	FERT. NUT.	FERT. NUT.	FERT. NUT.	GROUND	METHOD 2	EROSION
	ACRE	POUND	POUND	POUND	LIMESTONE	ACRE	CONTROL BLANKET
					TON		SQUARE YARD
IL 242							
STA. 764+50 TO STA. 766+52, LT.	0.23	22	22	22	0.4	0.12	510
STA. 767+20 TO STA. 769+50, LT.	0.30	27	27	27	0.6	0.13	844
BLAIRSVILLE ROAD (CH-10)							
STA. 10+36 TO STA. 13+02, LT.	0.18	17	17	17	0.4	0.11	330
STA. 10+36 TO STA. 12+77, RT.	0.16	15	15	15	0.4	0.11	245
TOTAL	0.87	81	81	81	1.8	0.47	1929

SAY 0.9 ACRE

SAY 0.5 ACRE

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)	
LOCATION	20100110
	TREE REMOVAL
	(6 TO 15 UNITS DIAMETER)
	UNIT
BLAIRSVILLE ROAD (CH-10)	
STA. 10+60.5 46' LT.	6
STA. 10+69 28' LT.	8
TOTAL	14

44000100 PAVEMENT REMOVAL	
LOCATION	QUANTITY
	SQ. YD.
STA. 10+13 TO STA. 10+35.9	101
STA. 10+79.9 TO STA. 11+42	152
TOTAL	253

50105220 PIPE CULVERT REMOVAL	
LOCATION	QUANTITY
	FOOT
STA. 10+91 31' LT. TO STA. 11+05 32' LT.	14
TOTAL	14

31101000 SUBBASE GRANULAR MATERIAL, TYPE B	
LOCATION	QUANTITY
	TON
STA. 10+13 TO STA. 11+42	135
TOTAL	135

48203021 HOT MIX ASPHALT SHOULDERS, 6"	
LOCATION	QUANTITY
	SQ. YD.
STA. 765+02.4 (IL 242) TO STA. 12+50 (CH 10)	292
STA. 12+25 (CH 10) TO STA. 768+92 (IL 242)	292
TOTAL	584

63200310 GUARDRAIL REMOVAL	
LOCATION	QUANTITY
	FOOT
STA. 10+80 TO STA. 11+67.5 LT.	87.5
STA. 10+80 TO STA. 11+18.5 RT.	38.5
TOTAL	126

42000211 PORTLAND CEMENT CONCRETE PAVEMENT 7 1/2" JOINTED	
LOCATION	QUANTITY
	SQ. YD.
STA. 10+13 TO STA. 11+42	553
TOTAL	553

GUARDRAIL SCHEDULE			
LOCATION	63100167	63000001	63000030
	TRAFFIC BARRIER	STEEL PLATE BEAM	STRONG POST
	TERMINAL, TYPE 1	GUARDRAIL	GUARDRAIL
	(SPECIAL) TANGENT		ATT. TO CULVERT
	FOOT	FOOT	FOOT
STA. 765+02.4 TO STA. 765+52.4 (IL 242) LT.	1		
STA. 765+52.4 (IL 242) TO STA. 10+40 20.7' LT. (CH 10)		114	
STA. 10+40 20.7' LT. (CH 10) TO STA. 10+85.5 15' LT. (IL 242)			46.5
STA. 10+85.5 15' LT. (CH 10) TO STA. 12+00 15' LT. (CH 10)		114.5	
STA. 12+00 TO STA. 12+50 (CH 10) LT.	1		
STA. 11+75 TO STA. 12+25 (CH 10) RT.	1		
STA. 11+75 15' RT.(CH 10) TO STA. 10+85.5 20.3' RT.(CH 10)		89.5	
STA. 10+85.5 20.3' RT. (CH 10) TO STA. 10+40 33.5' RT. (CH 10)			47.5
STA. 10+40 33.5' RT. (CH 10) TO STA. 768+42. (IL 242)		138	
STA. 768+42 TO STA. 768+92 (IL 242) LT.	1		
TOTAL	4	456	94



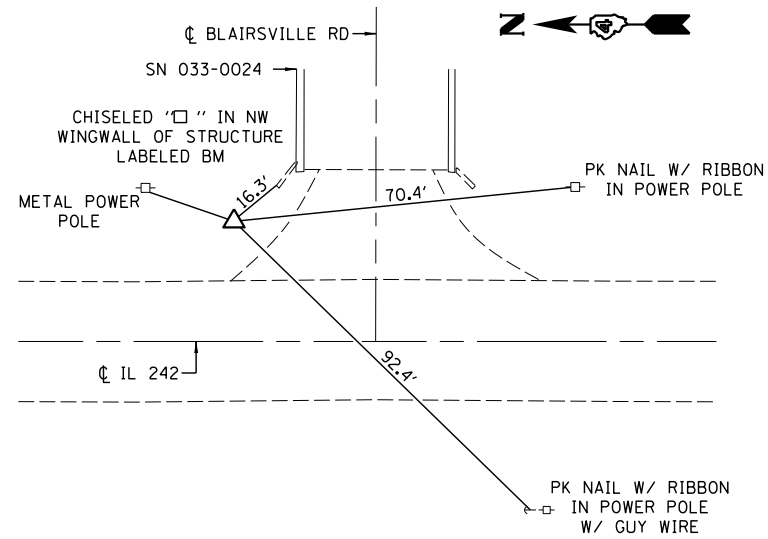
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DEPARTMENT OF TRANSPORTATION

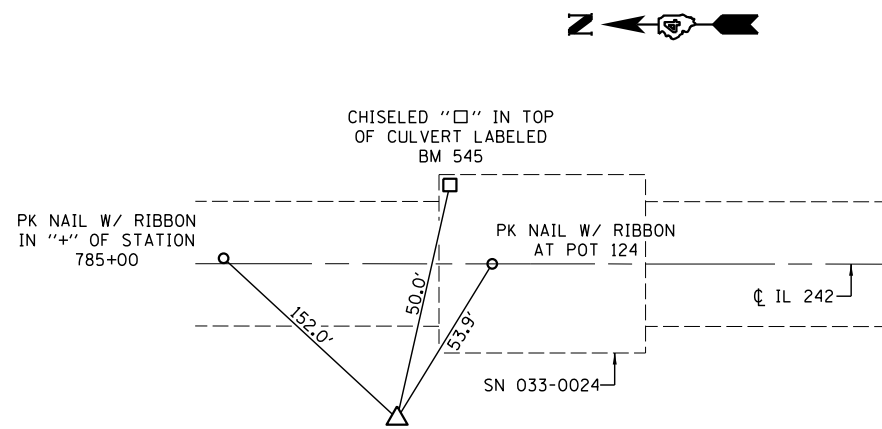
QUANTITY SCHEDULES

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
882	102B-3	HAMILTON	33	8
CONTRACT NO. 78080			ILLINOIS FED. AID PROJECT	



POINT #0330610
 IRON PIN WITH
 YELLOW IDOT CAP
 26' LT STA. 766+42
 N 541740.263
 E 925259.172



POINT #0330611
 IRON PIN WITH
 YELLOW IDOT CAP
 18' RT STA. 786+52
 N 539727.751
 E 925205.266

BENCHMARK: CHISELED "□" ON NW CORNER OF HEADWALL OF BRIDGE
 S.N. 033-0024 AT THE INTERSECTION OF RTE. 242 &
 BLAIRSVILLE RD. AT STA. ± 765+50 LT. 35.7' (394.1244)



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

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

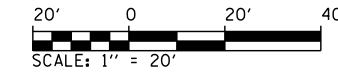
CROSS TIES AND BENCHMARK DETAILS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
882	102B-3	HAMILTON	33	10
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				

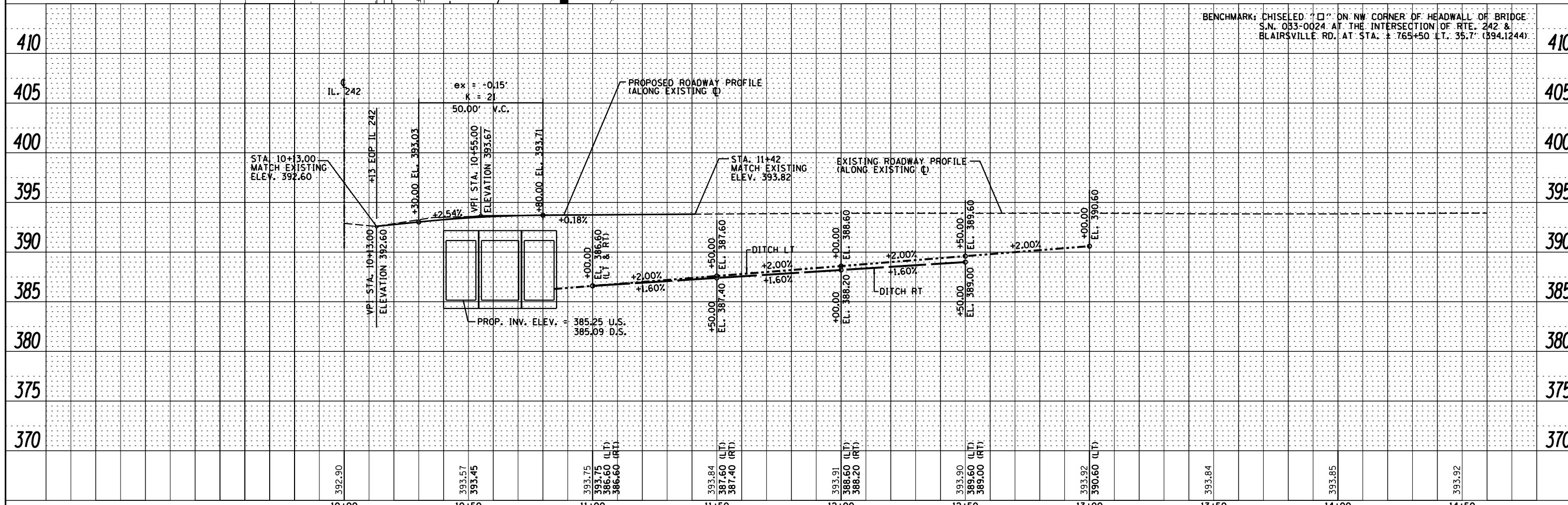
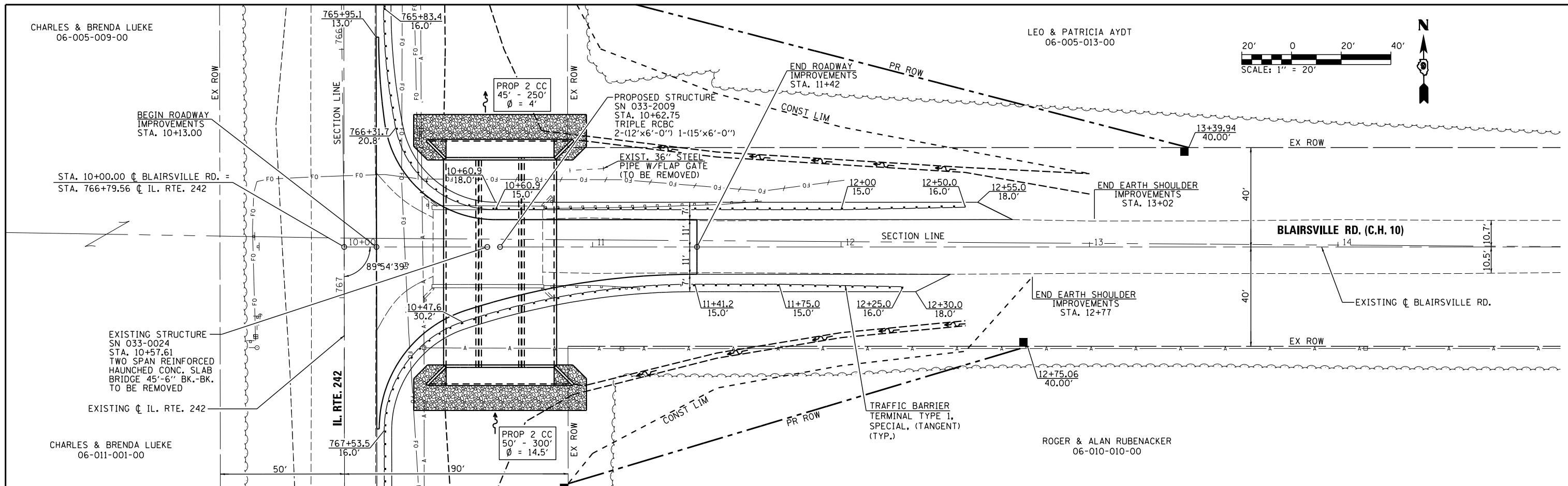
CHARLES & BRENDA LUEKE
06-005-009-00

LEO & PATRICIA AYDT
06-005-013-00



PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	FILED	
	NO.	

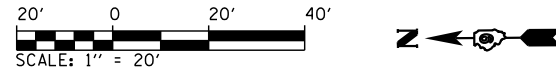
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	PLOTTED	BY
	CHECKED	
	GRADES	
	STRUCTURE	
	NOTATIONS	
	CHFD	
	NO.	



BENCHMARK: CHISELED "□" ON NW CORNER OF HEADWALL OF BRIDGE
S.N. 033-0024 AT THE INTERSECTION OF RTE. 242 &
BLAIRSVILLE RD. AT STA. ± 765+50 LT. 35.7' (394.1244)

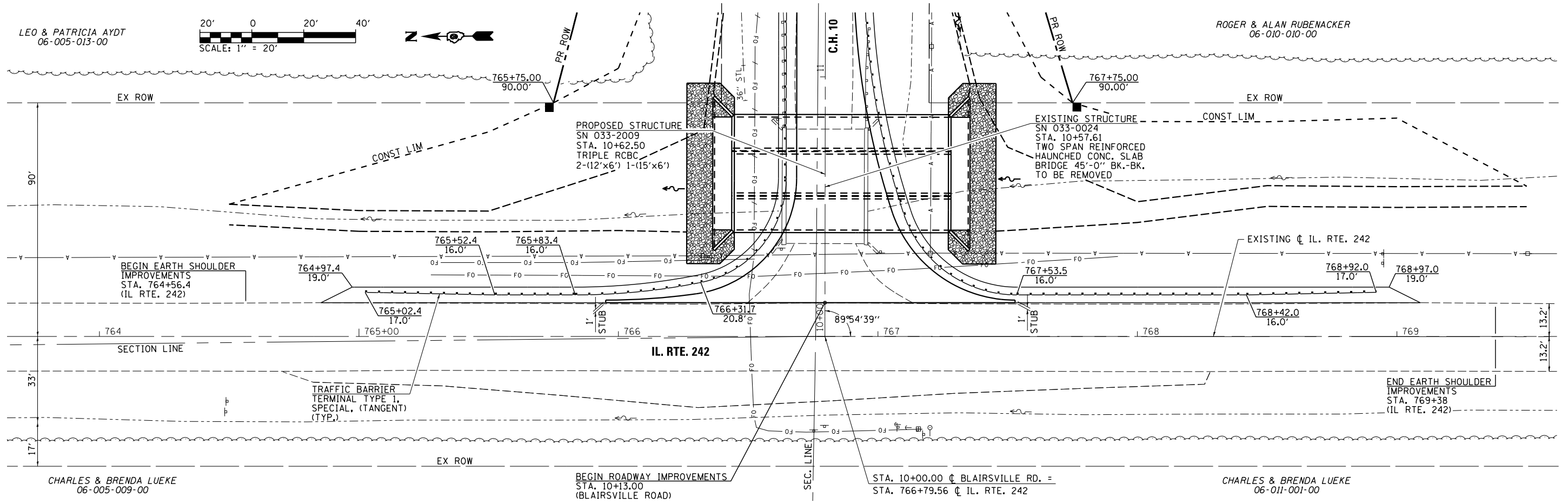
	USER NAME = *USER*	DESIGNED - JMM	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">PLAN & PROFILE (BLAIRSVILLE ROAD)</p>	F.A.S. RTE. 882	SECTION 102B-3	COUNTY HAMILTON	TOTAL SHEETS 33	SHEET NO. 11
	PLOT SCALE = *SCALE*	CHECKED - JMM	REVISED -			SCALE: 1"=20'	SHEET 1 OF 1 SHEETS	STA.	TO STA.	CONTRACT NO. 78080
	PLOT DATE = *DATE*	DATE - 12/2009	REVISED -			ILLINOIS FED. AID PROJECT				

LEO & PATRICIA AYDT
06-005-013-00

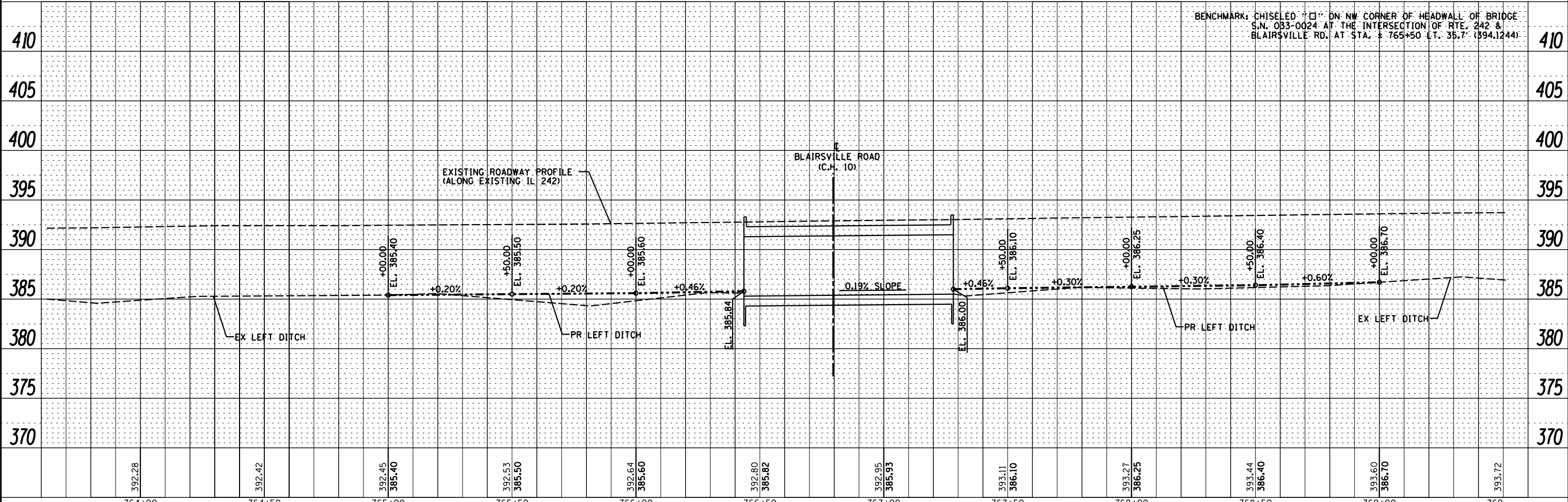


ROGER & ALAN RUBENACKER
06-010-010-00

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	NO. OF SHEETS	
	FILE NAME	



PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	NO. OF SHEETS	
	FILE NAME	



BENCHMARK: CHISELED "C" ON NW CORNER OF HEADWALL OF BRIDGE S.N. 033-0024 AT THE INTERSECTION OF RTE. 242 & BLAIRSVILLE RD. AT STA. ± 765+50 L.T. 35.7' (894.1244)

764+00	764+50	765+00	765+50	766+00	766+50	767+00	767+50	768+00	768+50	769+00	769-
392.28	392.42	392.45	392.53	392.64	392.80	392.95	393.11	393.27	393.44	393.60	393.72
		385.40	385.50	385.60	385.82	385.93	386.10	386.25	386.40	386.70	

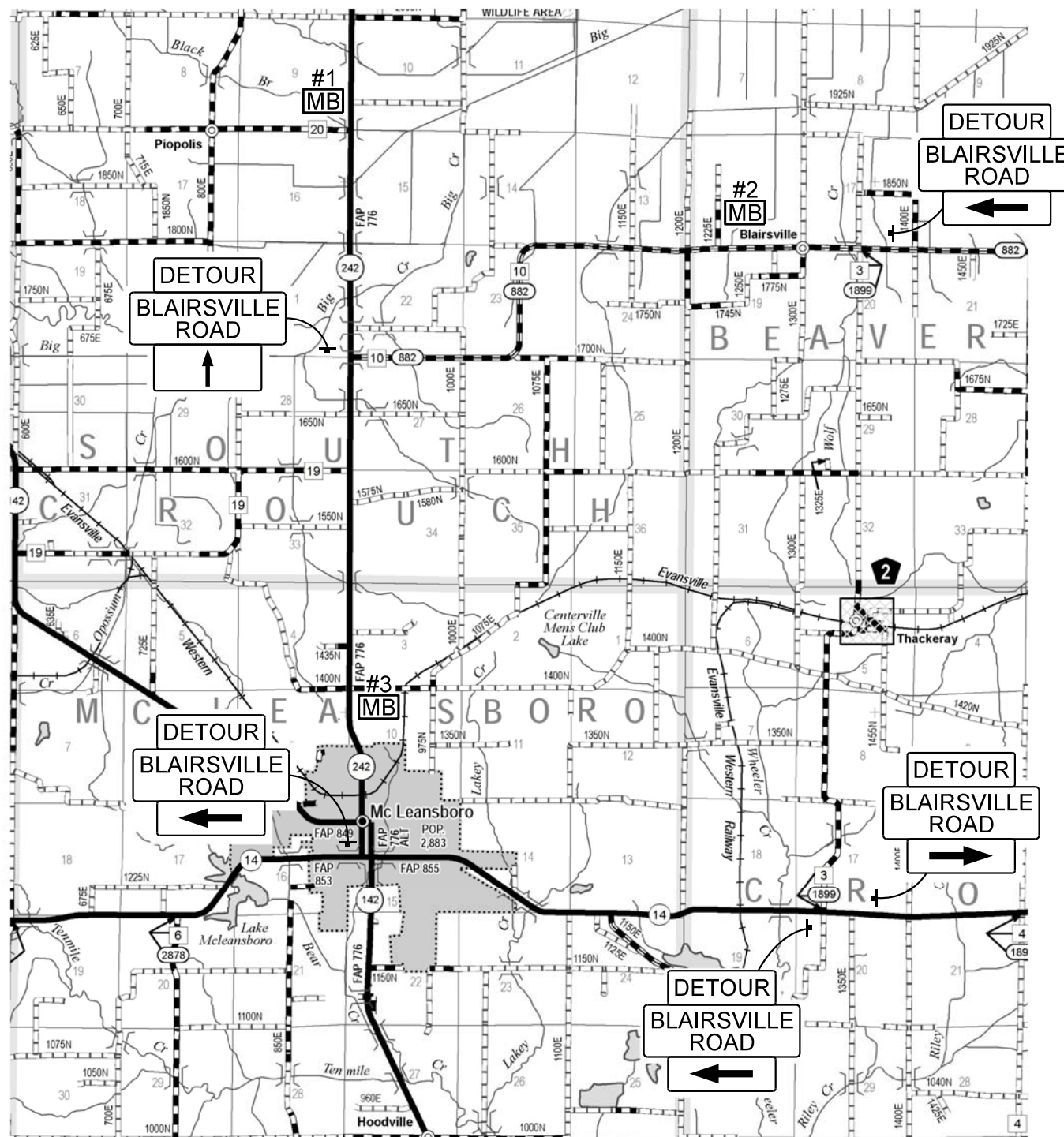
V&K
Veenstra & Kimm, Inc.
Springfield, IL Phone: (217)544-8033

USER NAME = *USER*	JMM	DESIGNED -	REVISED -
		DRAWN -	REVISED -
PLOT SCALE = *SCALE*	JMM	CHECKED -	REVISED -
PLOT DATE = *DATE*	12/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE (IL 242)
SCALE: 1"=20'
SHEET 1 OF 3 SHEETS
STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
882	102B-3	HAMILTON	33	12
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				



DETOUR PLAN

PRIOR TO CLOSURE

[MB] - CHANGEABLE MESSAGE BOARD
 (NOTIFICATION - 2 WEEKS PRIOR TO THE START OF WORK)

MESSAGE BOARD PRIOR TO CLOSURE

MESSAGE BOARD DURING CLOSURE

BLAIRSVILLE ROAD

WILL BE CLOSED
2 MILES AHEAD

XXX XX
TO
XXX XX

MB #1

BLAIRSVILLE ROAD

CLOSED
2 MILES AHEAD

USE MARKED
DETOUR

MB #1

BLAIRSVILLE ROAD

WILL BE CLOSED
4 MILES AHEAD

XXX XX
TO
XXX XX

MB #2

BLAIRSVILLE ROAD

CLOSED
4 MILES AHEAD

USE MARKED
DETOUR

MB #2

BLAIRSVILLE ROAD

WILL BE CLOSED
3 MILES AHEAD

XXX XX
TO
XXX XX

MB #3

BLAIRSVILLE ROAD

CLOSED
3 MILES AHEAD

USE MARKED
DETOUR

MB #3

DETOUR

24x12
STANDARD
DETOUR
BLACK/ORANGE

BLAIRSVILLE ROAD

30x15 BLANK
4 "HWY C" FONT
BLACK/WHITE



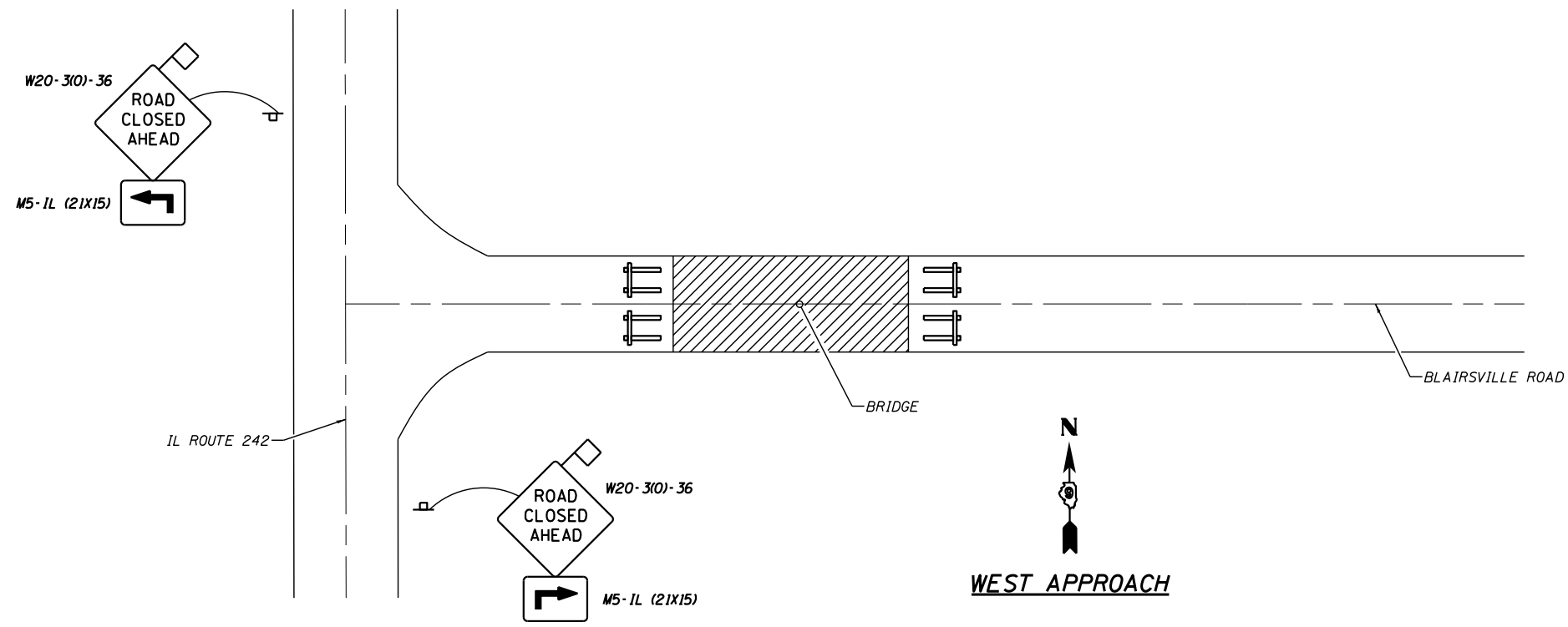
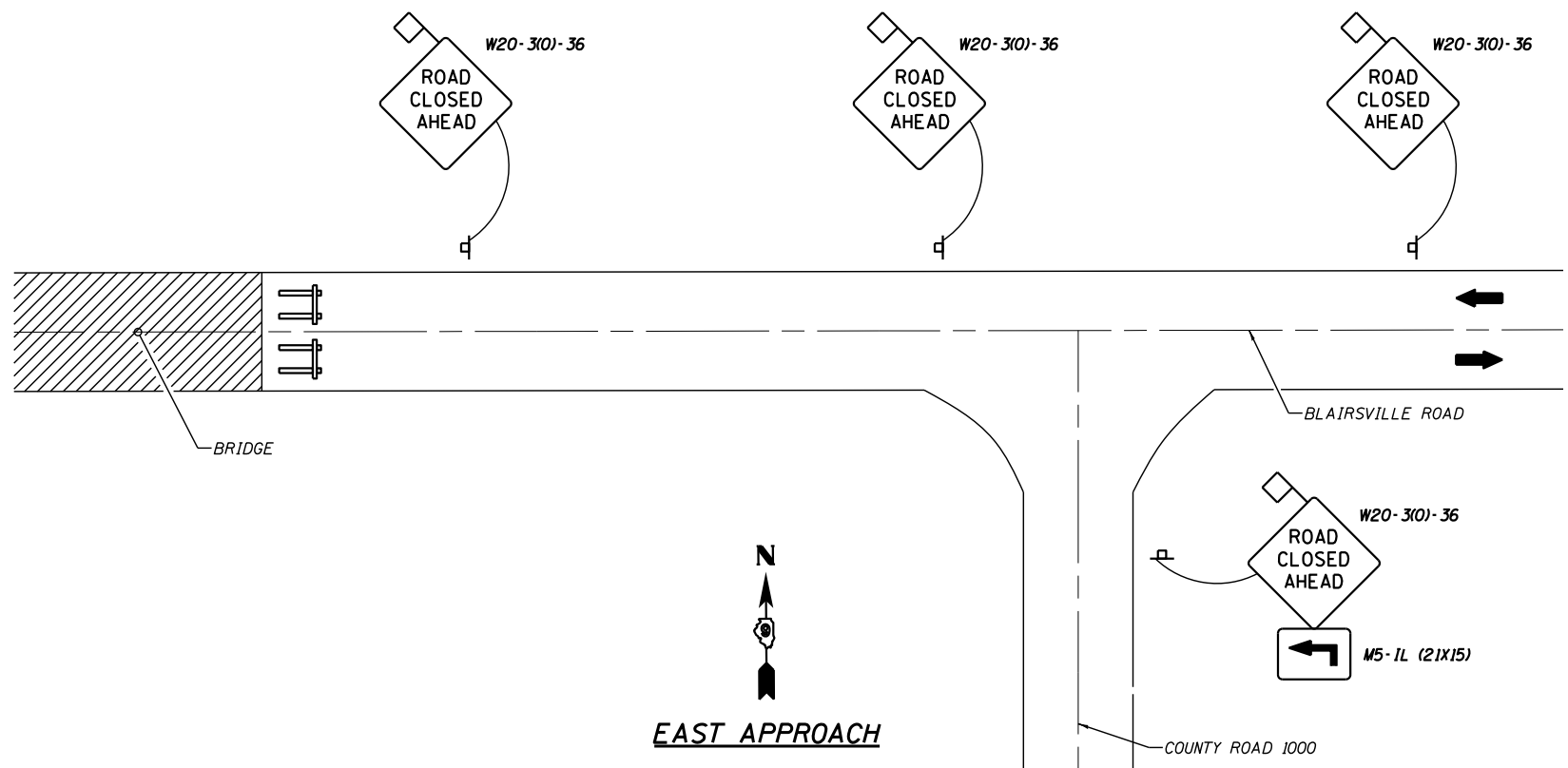
21x15
STANDARD
ARROW
BLACK/WHITE

DETOUR SIGNS




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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

SCALE:		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.	
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
882	102B-3	HAMILTON	33	13
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				



- NOTES:**
1. TRAFFIC CONTROL TO BE PROVIDED IN ACCORDANCE WITH HIGHWAY STANDARD BLR 21 AND AS SPECIFIED HEREIN, AND SHALL BE PAID AT THE CONTRACT PRICE PER "LUMP SUM" FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
 2. SEE HIGHWAY STANDARD BLR 21 FOR DETAILS NOT SHOWN.

- SYMBOLS**
-  WORK AREA
 -  TYPE III BARRICADE
 -  SIGN WITH 18" X 18" (MINIMUM) ORANGE FLAG ATTACHED



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS	
SCALE:	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
882	102B-3	HAMILTON	32	14
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				

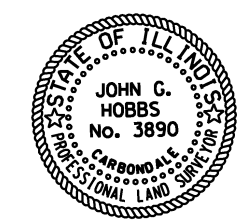
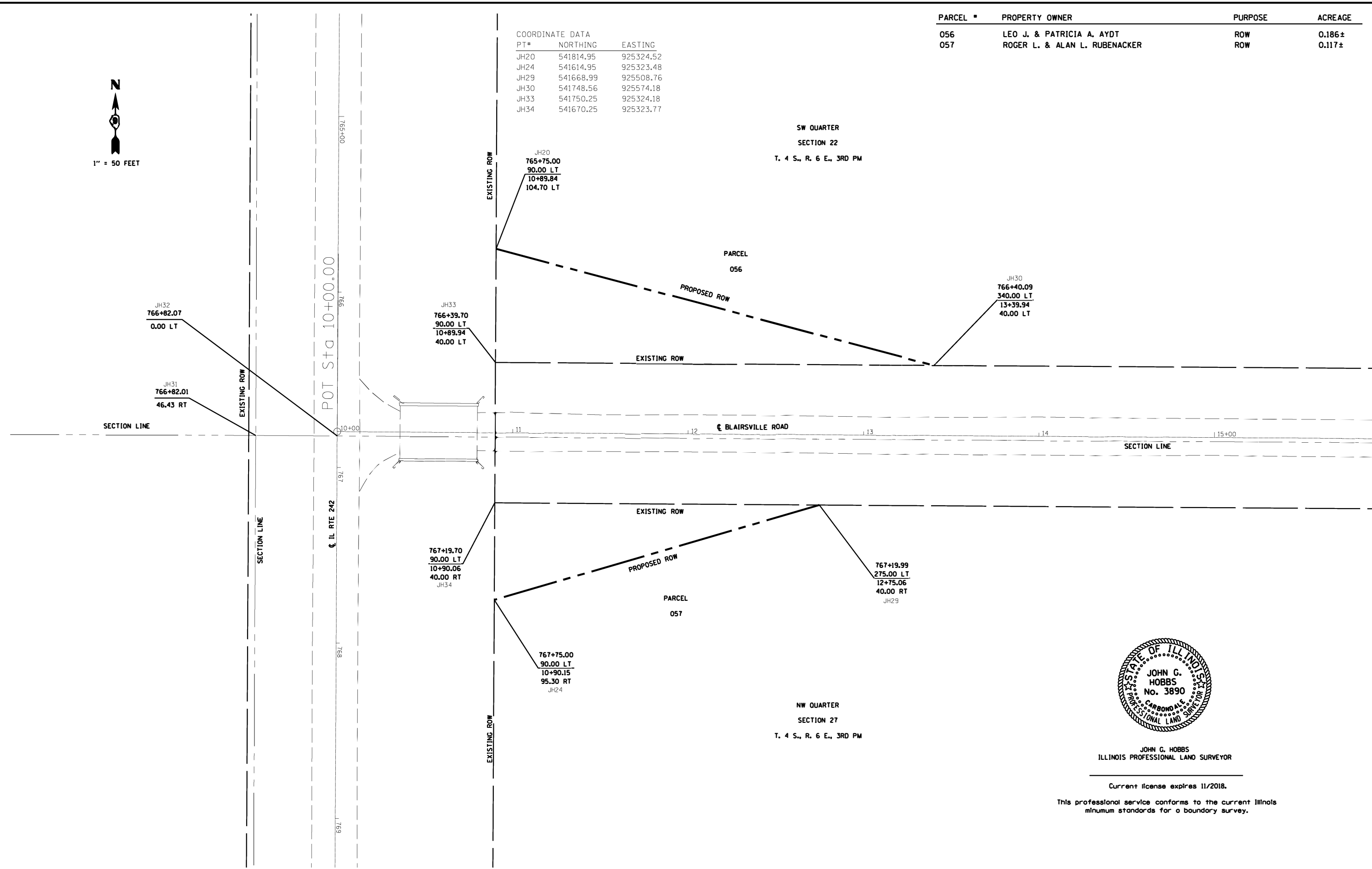


COORDINATE DATA		
PT#	NORTHING	EASTING
JH20	541814.95	925324.52
JH24	541614.95	925323.48
JH29	541668.99	925508.76
JH30	541748.56	925574.18
JH33	541750.25	925324.18
JH34	541670.25	925323.77

PARCEL #	PROPERTY OWNER	PURPOSE	ACREAGE
056	LEO J. & PATRICIA A. AYDT	ROW	0.186±
057	ROGER L. & ALAN L. RUBENACKER	ROW	0.117±

SW QUARTER
SECTION 22
T. 4 S., R. 6 E., 3RD PM

NW QUARTER
SECTION 27
T. 4 S., R. 6 E., 3RD PM



JOHN G. HOBBS
ILLINOIS PROFESSIONAL LAND SURVEYOR
Current license expires 11/2018.
This professional service conforms to the current Illinois minimum standards for a boundary survey.

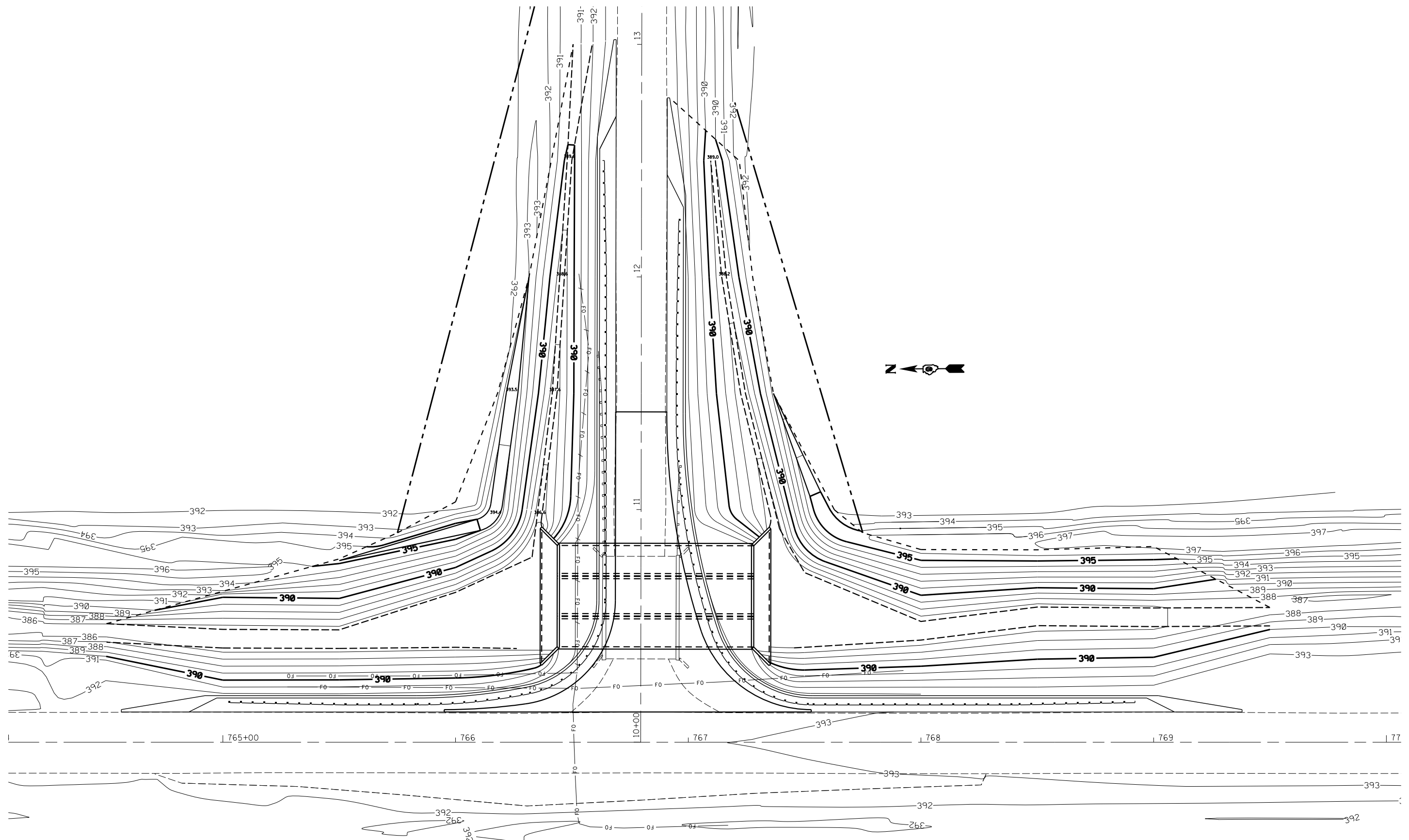
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USER NAME = hobbjsj	DESIGNED - _____	REVISED - _____
DRAWN - _____	REVISIONS - _____	
PLOT SCALE = 50.0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 1/29/2018	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS
IL RTE 242 SN 033-0024
SCALE: 1" = 50' SHEET 1 OF 1 SHEETS STA. 765+75.00 TO STA. 767+75.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
142	102 B-3	HAMILTON	33	15
CONTRACT NO. 78080				
R-99-005-07 ILLINOIS FED. AID PROJECT				



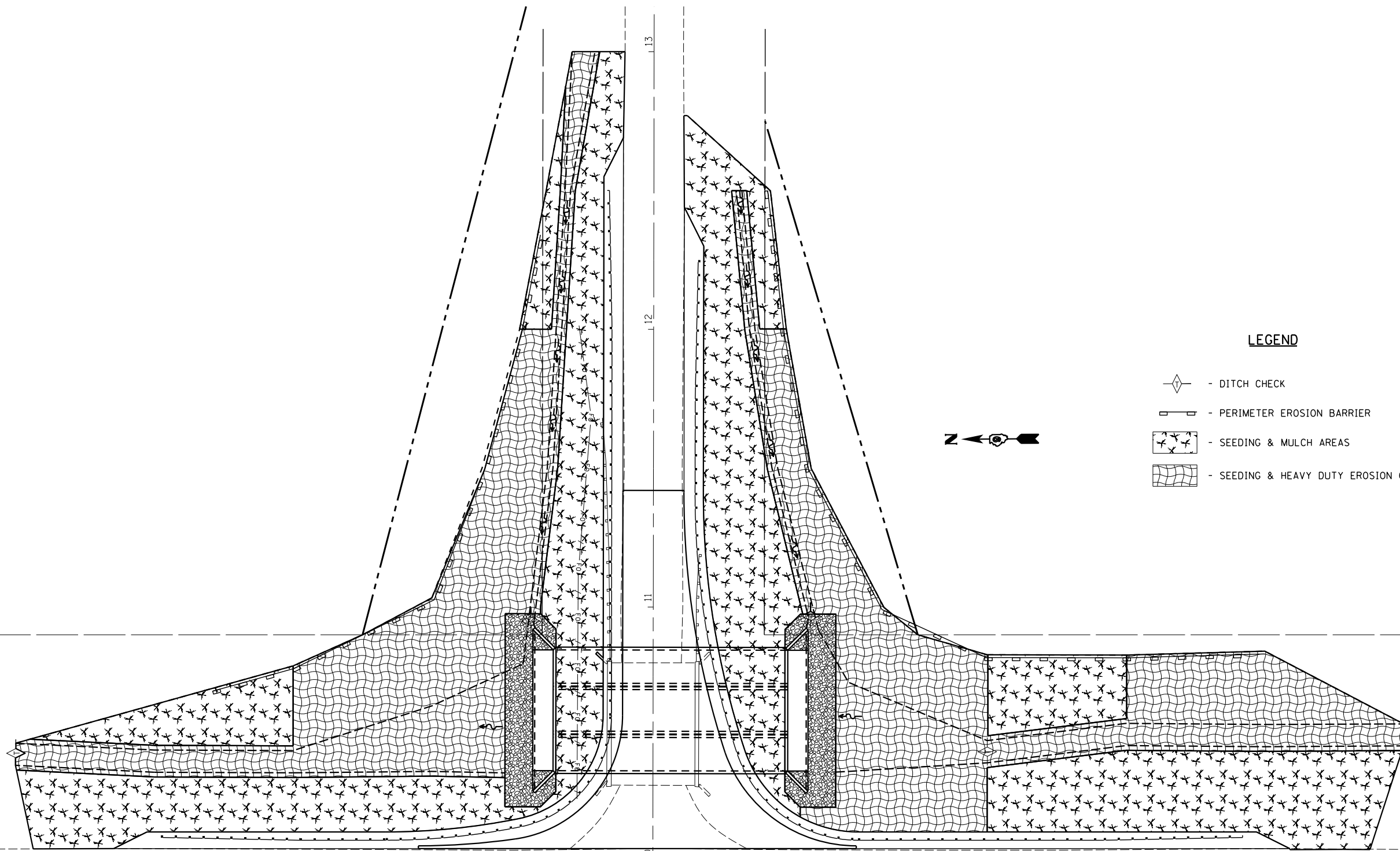
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CHECKED -	REVISOR -	REVISOR -
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PLOT DATE =	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**





GRADING PLAN

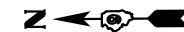
SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
882	102B-3	HAMILTON	33	16
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				



LEGEND

-  - DITCH CHECK
-  - PERIMETER EROSION BARRIER
-  - SEEDING & MULCH AREAS
-  - SEEDING & HEAVY DUTY EROSION CONTROL BLANKET AREAS



Stationing markers: | 765+00 | 766 | 10+00 | 767 | 768 | 769 | 77



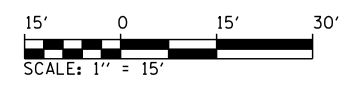
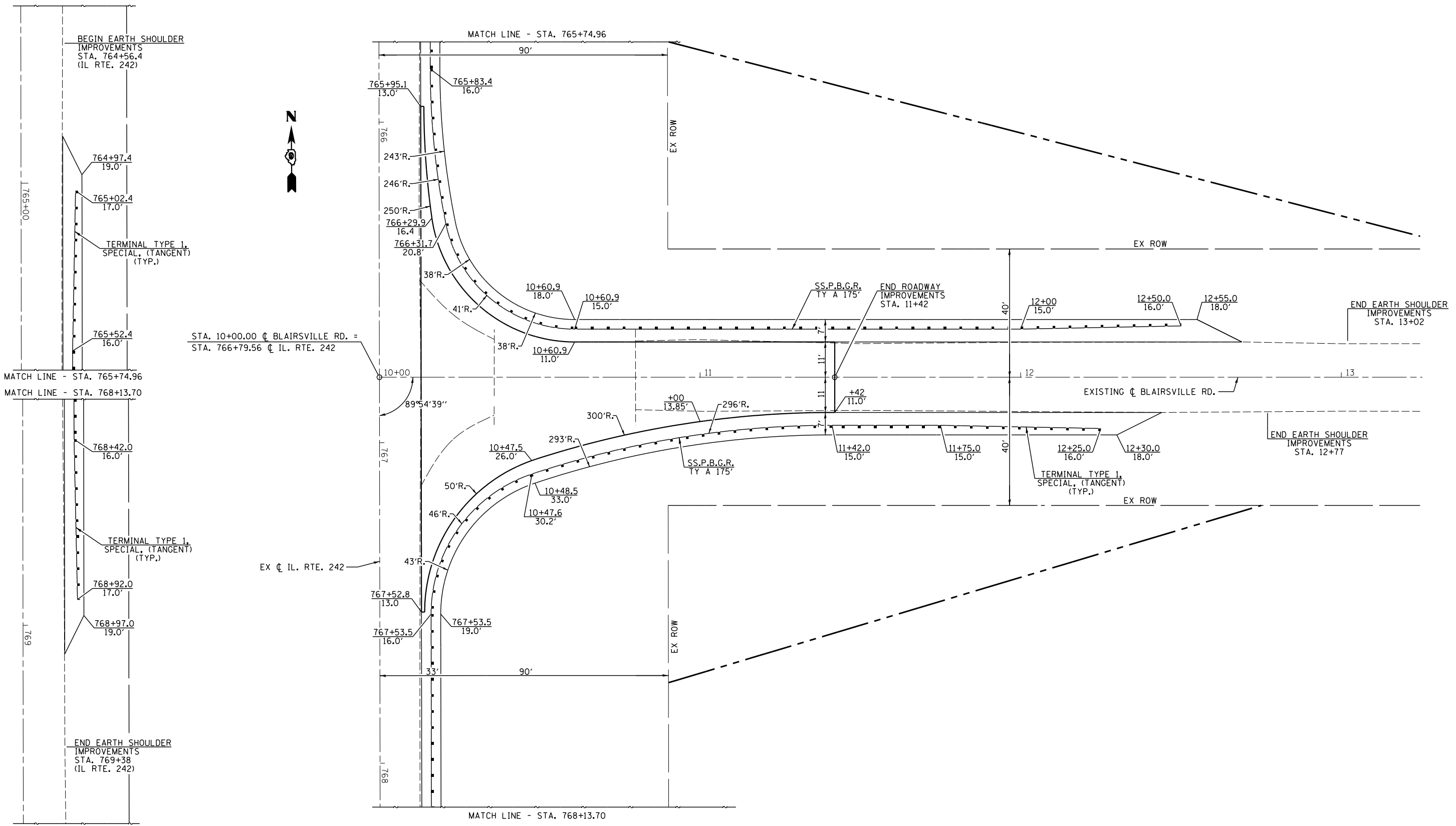
USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
882	102B-3	HAMILTON	33	17
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				



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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

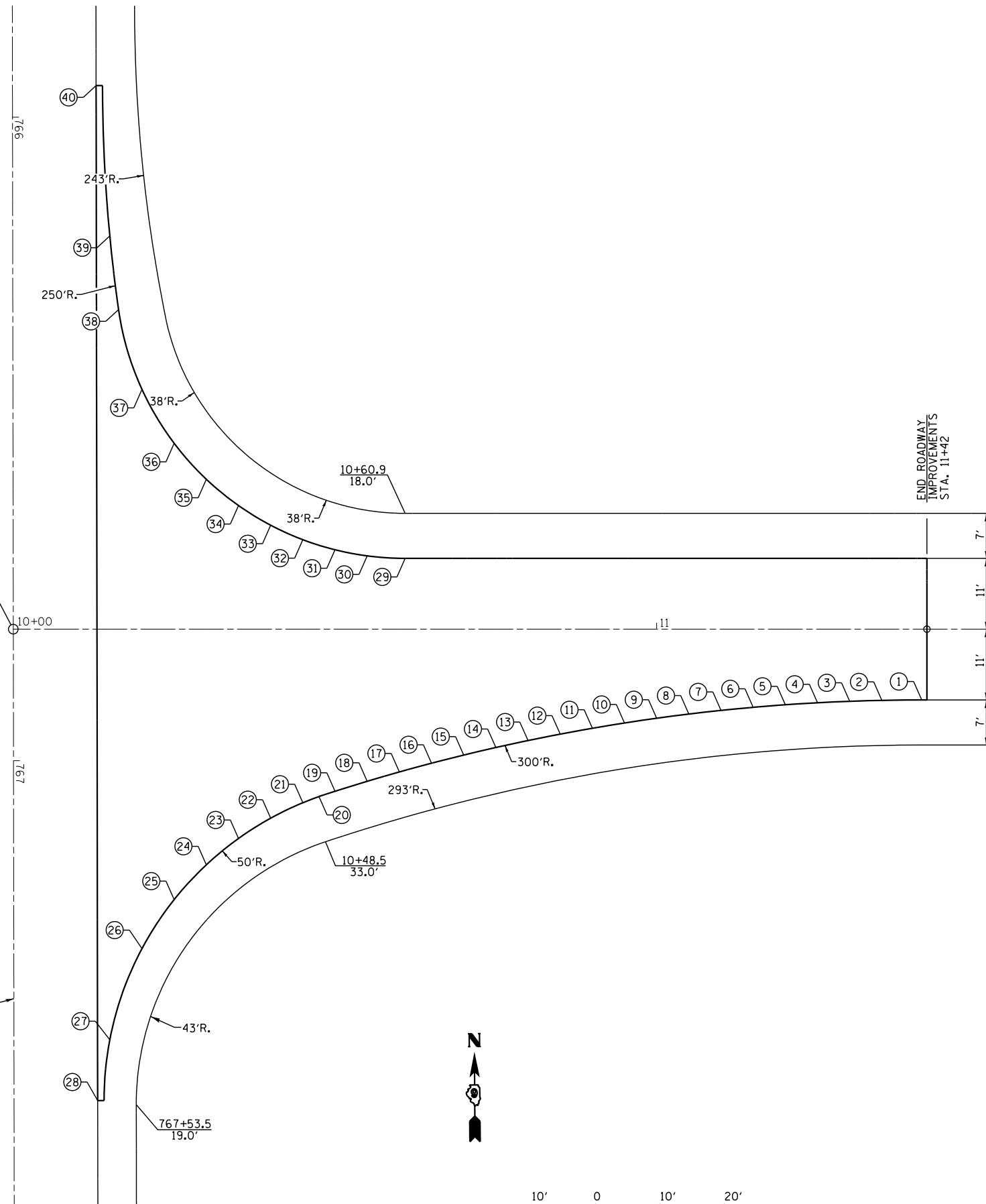
INTERSECTION DETAILS - HORIZONTAL CONTROL

SCALE: 1" = 15' SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
882	102B-3	HAMILTON	33	18
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				

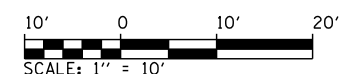
STA. 10+00.00 \bar{C} BLAIRSVILLE RD. =
 STA. 766+79.56 \bar{C} IL. RTE. 242

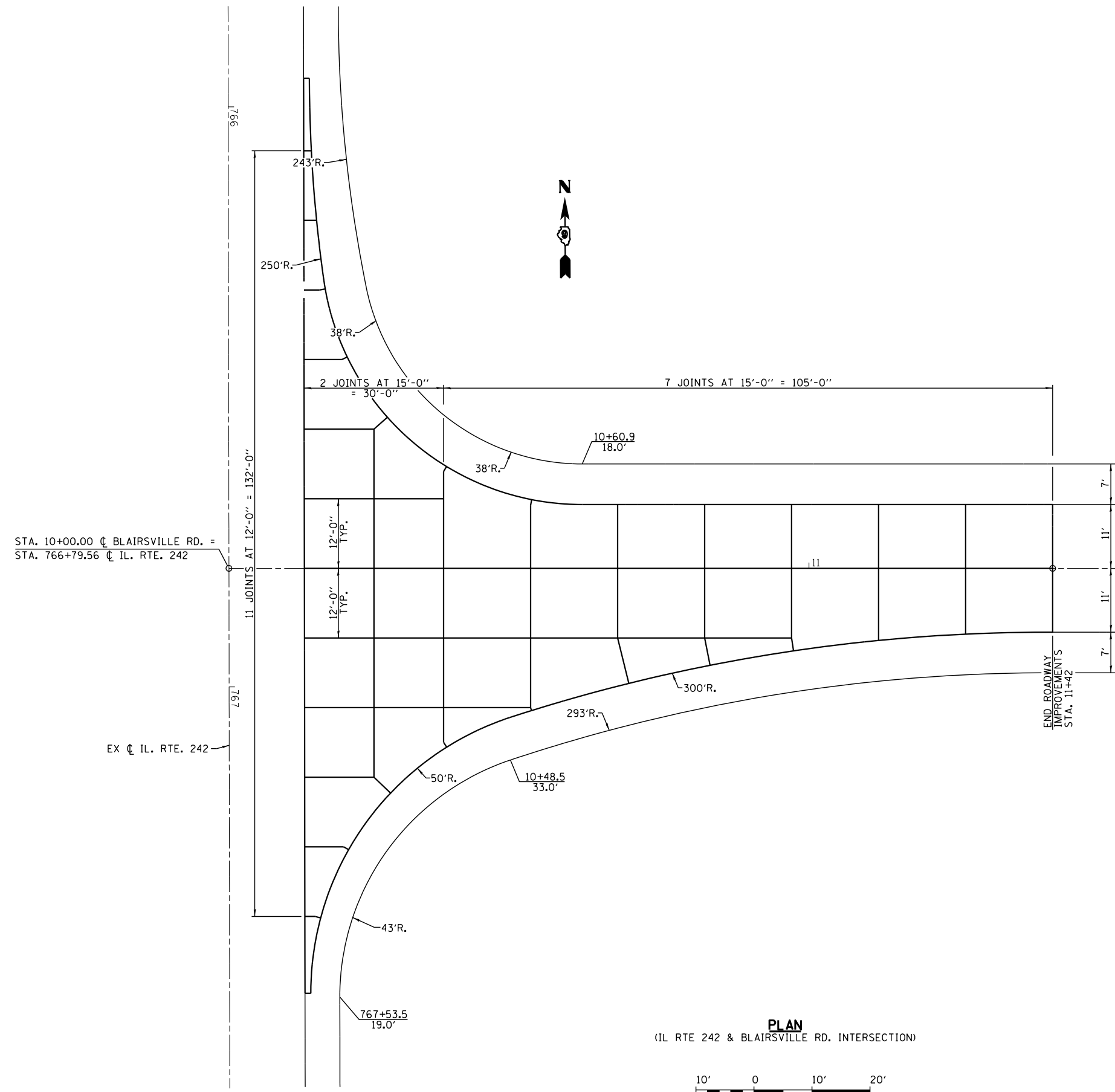
EX \bar{C} IL. RTE. 242



	CH10 STATION	OFFSET	ELEVATION
1	11+41.2	11.00' RT.	393.66
2	11+35	11.06' RT.	393.64
3	11+30	11.21' RT.	393.63
4	11+25	11.44' RT.	393.62
5	11+20	11.75' RT.	393.61
6	11+15	12.14' RT.	393.59
7	11+10	12.62' RT.	393.57
8	11+05	13.19' RT.	393.56
9	11+00	13.84' RT.	393.54
10	10+95	14.58' RT.	393.52
11	10+90	15.40' RT.	393.50
12	10+85	16.31' RT.	393.47
13	10+80	17.30' RT.	393.45
14	10+75	18.39' RT.	393.42
15	10+70	19.57' RT.	393.37
16	10+65	20.83' RT.	393.32
17	10+60	22.19' RT.	393.25
18	10+55	23.64' RT.	393.18
19	10+50	25.19' RT.	393.07
20	10+47.5	26.0' RT.	393.01
21	10+45	26.97' RT.	393.00
22	10+40	29.37' RT.	392.99
23	10+35	32.52' RT.	392.98
24	10+30	36.62' RT.	392.97
25	10+25	42.0' RT.	392.96
26	10+20	49.6' RT.	392.95
27	10+15	63.8' RT.	392.94
28	10+13	73.25' RT.	392.93
29	10+60.9	11.00' LT.	393.43
30	10+55	11.39' LT.	393.35
31	10+50	12.34' LT.	393.26
32	10+45	13.91' LT.	393.15
33	10+40	16.15' LT.	393.02
34	10+35	19.21' LT.	392.86
35	10+30	23.30' LT.	392.68
36	10+25	28.88' LT.	392.61
37	10+20	37.26' LT.	392.58
38	10+16.4	49.66' LT.	392.54
39	10+15	61.16' LT.	392.50
40	10+12.86	84.48' LT.	392.43

END ROADWAY
 IMPROVEMENTS
 STA. 11+42



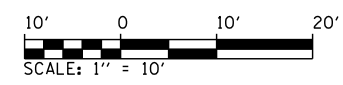


STA. 10+00.00 \perp BLAIRSVILLE RD. =
 STA. 766+79.56 \perp IL. RTE. 242

EX \perp IL. RTE. 242

END ROADWAY
 IMPROVEMENTS
 STA. 11+42

PLAN
 (IL RTE 242 & BLAIRSVILLE RD. INTERSECTION)



- NOTES:
1. JOINTS SHALL NOT INTERSECT AT LESS THAN 60° ANGLES
 2. SLABS SHALL NOT BE LESS THAN 6 FT. IN LENGTH (EITHER DIRECTION)
 3. CONCRETE STUBS SHALL HAVE A 1 FT MINIMUM WIDTH
 4. JOINTS AS SHOWN MAY BE MODIFIED IN THE FIELD AS APPROVED BY THE ENGINEER



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION - PAVEMENT JOINT DETAILS

SCALE: 1" = 10' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
882	102B-3	HAMILTON	33	20
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				

Benchmark: Chiseled "□" in the N.W. Wingwall of SN 033-0024. Elev. 394.12

Existing Structure: S.N. 033-0024 built in 1941 as part of S.B.I. Route 142, Section 102-B-1. Two Span reinforced haunched concrete slab bridge with closed concrete abutments and a solid wall concrete pier founded on timber pile supported footings. 30'-0" face to face of curb, 33'-0" out to out deck, 45'-0" Bk. to Bk. Abutments. 0° Skew.
Traffic to be detoured. Project will be built under road closure.

No salvage.

INDEX OF SHEETS

- 1 - General Plan & Elevation
- 2-3 - Multicell Precast Concrete Box Culvert Apron End Section Details
- 4 - Culvert Details
- 5-6 - Soil Borings

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures	Each	1
Name Plates	Each	1
Precast Concrete Box Culvert, 12'x6'	Foot	163
Precast Concrete Box Culvert, 15'x6'	Foot	81.5
Box Culvert End Sections, Culvert No. 1	Each	2
Membrane Waterproofing for Buried Structures	Sq. Yd.	436
Porous Granular Embankment	Cu. Yd.	334
Stone Dumped Riprap, Class A4	Ton	184
Filter Fabric	Sq. Yd.	193
Rockfill - Foundation	Ton	1056
Strong Post Guardrail Attached to Culvert	Foot	94

WATERWAY INFORMATION

Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	428	117.34	234	392.66	0.14	0.00	392.80	392.66
Base	50	434	117.34	234	392.70	0.12	0.00	392.82	392.70
Overtopping	100	434	117.34	234	392.70	0.12	0.00	392.82	392.70
Max. Calc.	500	434	117.34	234	392.70	0.12	0.00	392.82	392.70

Existing Low Grade Elev. 392.88 @ Sta. 10+26.88
Proposed Low Grade Elev. 392.88 @ Sta. 10+26.88
10-Year Outlet Velocity from Existing Structure = 3.64 fps
10-Year Outlet Velocity from Proposed Structure = 2.00 fps

GENERAL NOTES

The design fill height for this box is 2 ft. The precast box culvert sections shall conform to the requirements of ASTM C1577.
Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specifications.
Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment as shown on Sheet 4 of 6. Granular backfill to extend 2 ft. beyond the headwalls.

LOADING HL 93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 & 2016 Interims.

DESIGN STRESSES

PRECAST UNITS

f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Fabric)
fy = 60,000 psi (Reinforcement)

FIELD UNITS

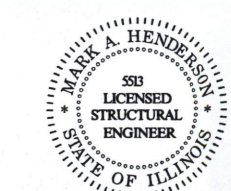
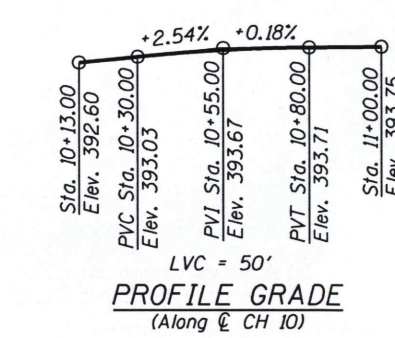
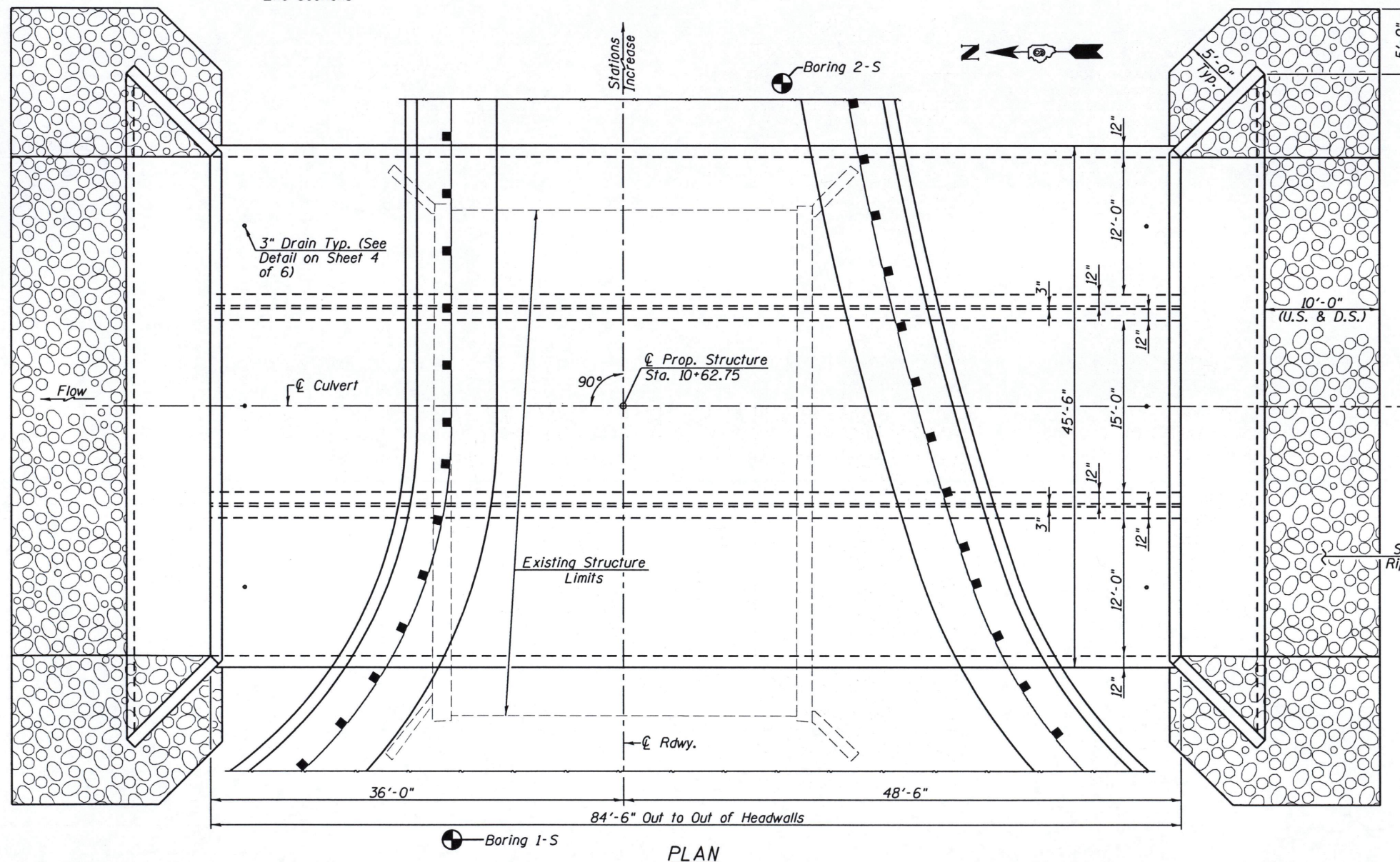
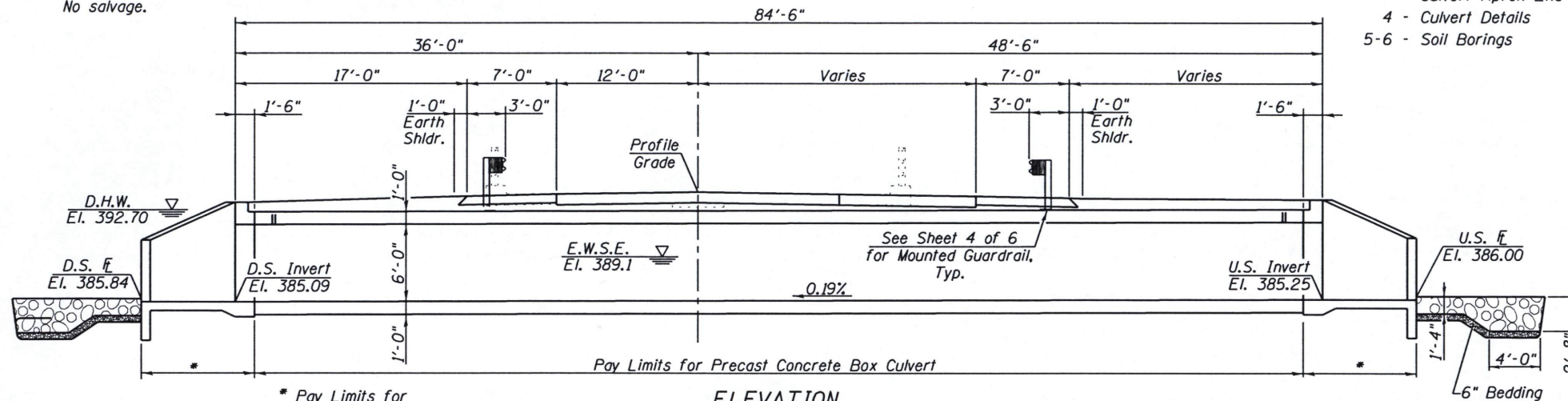
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 65,000 psi (Welded Wire Fabric)

STA. 10+62.75
BUILT 20 BY
STATE OF ILLINOIS
F.A.S. RTE. 882-SECTION 102B-3
LOADING HL-93
STR. NO. 033-2009

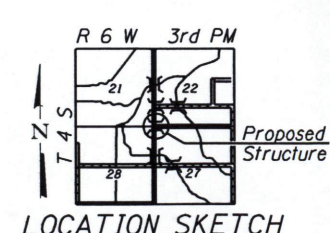
NAME PLATE

(Standard 515001)

GENERAL PLAN
C.H. 10 OVER UNNAMED STREAM
F.A.S. RTE. 882 - SEC. 102B-3
HAMILTON COUNTY
STATION 10+62.75
STRUCTURE NO. 033-2009



Mark A. Henderson 1-17-18
Exp. Date: 11/30/2018



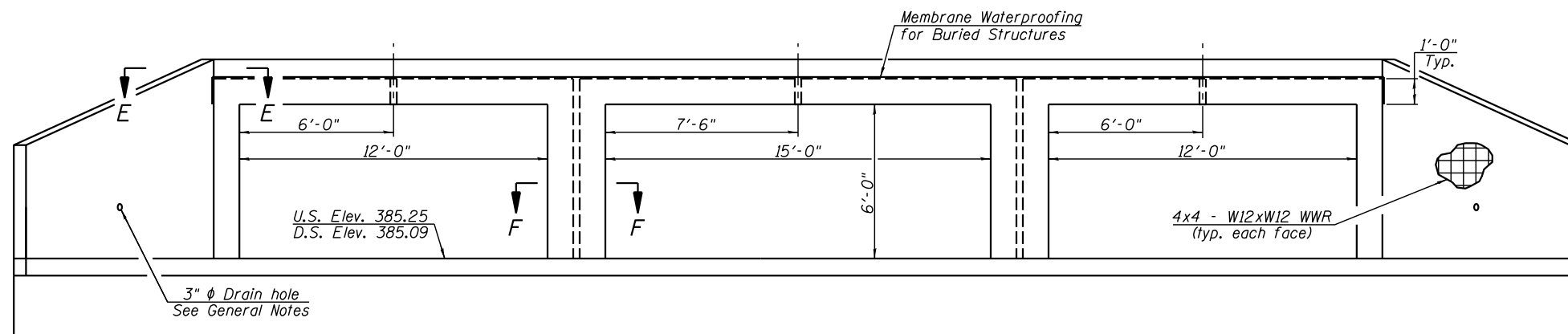
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

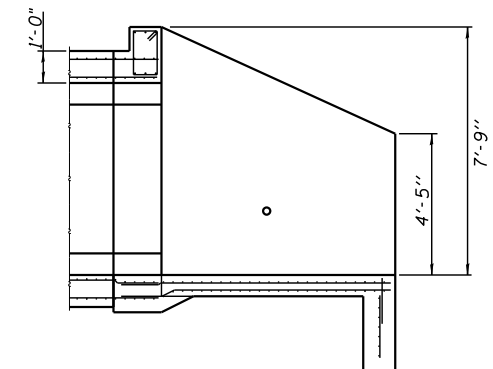
GENERAL PLAN & ELEVATION
STRUCTURE NO. 033-2009
SCALE: SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
882	102B-3	HAMILTON	33	21

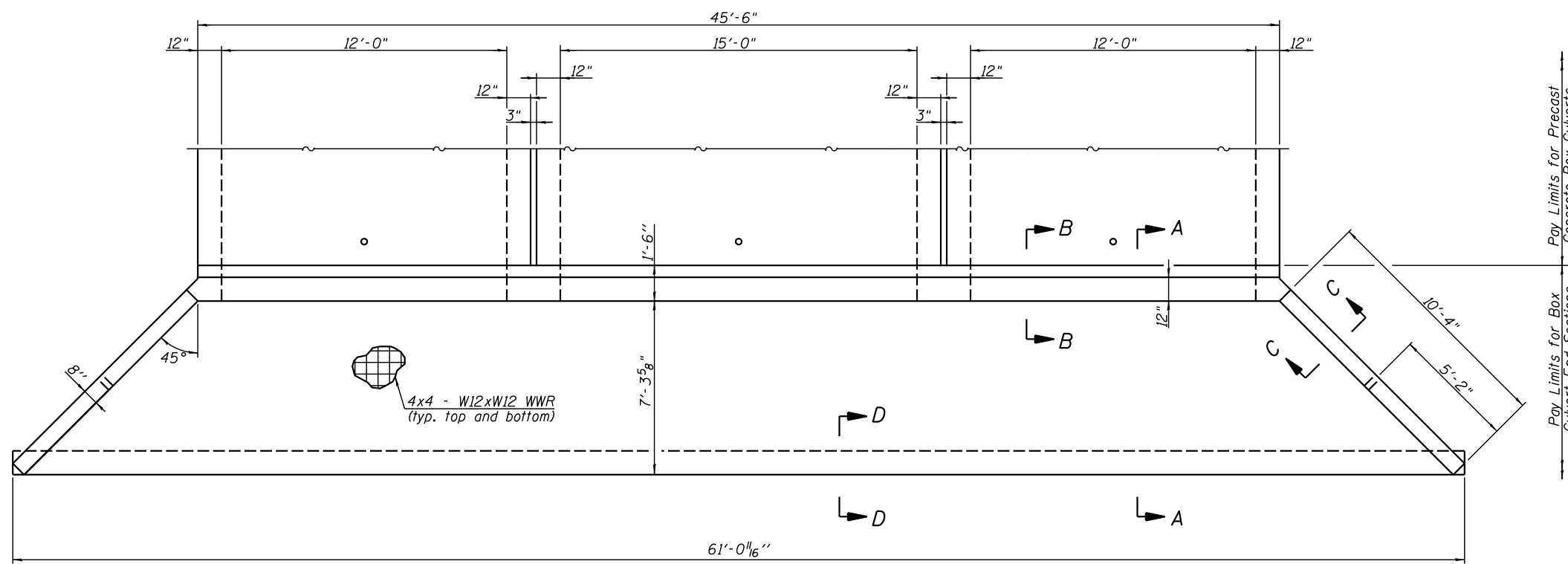
CONTRACT NO. 78080
ILLINOIS FED. AID PROJECT



END VIEW



SECTION A-A



PLAN

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The details contained herein are for constructing the end sections using cast-in-place (CIP) construction. The Contractor may propose to furnish the end sections using precast construction methods and the end sections may consist of multiple precast concrete segments. The Contractor shall be responsible for determining all details associated with the precast option including any strengthening or stiffening provisions necessary for handling the precast segments. Conceptual details followed by shop drawings and design calculations sealed by an Illinois Licensed Structural Engineer shall be submitted to the Engineer for review and approval. Elements of the precast option shall at a minimum result in the same wingwall geometry and not have a thickness less than that detailed herein. The option to construct the end sections using precast construction methods shall be at no additional charge.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2".

The contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the precast concrete box culvert segments immediately adjacent to the box culvert end sections that is being lapped with the end section reinforcement shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

(Sheet 1 of 2)



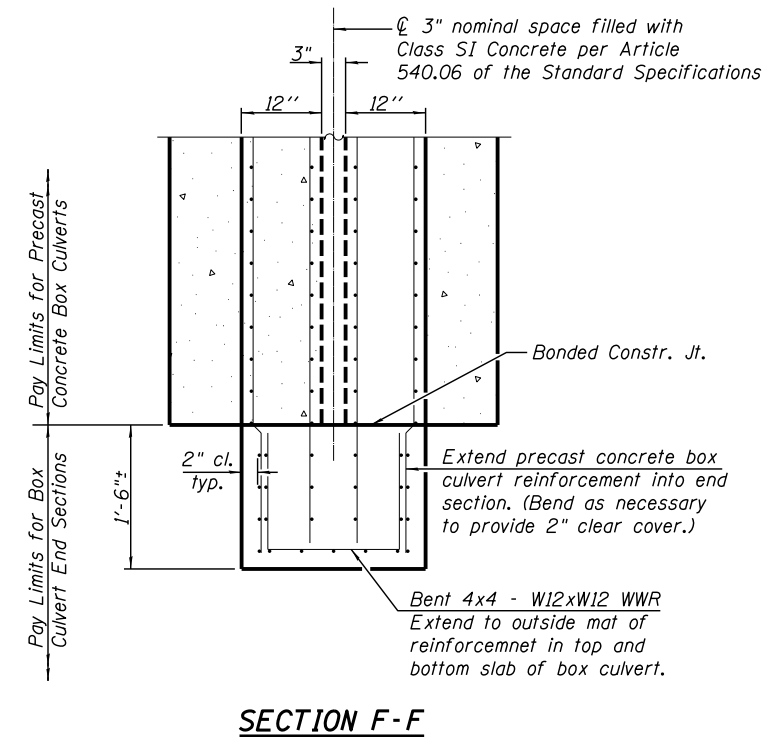
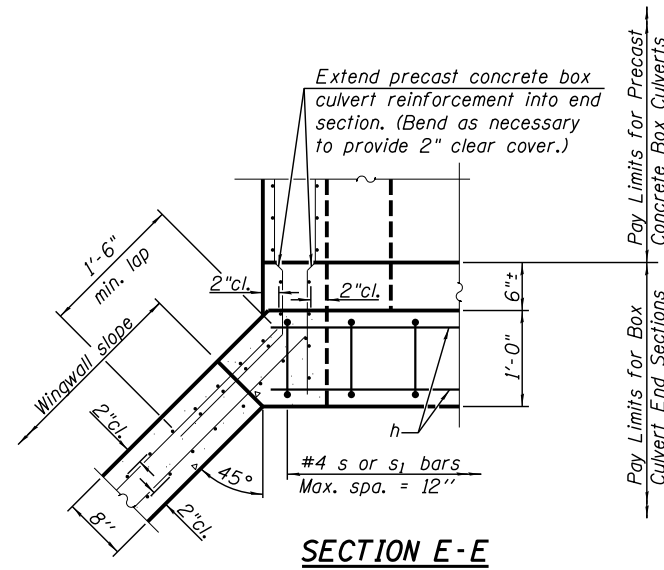
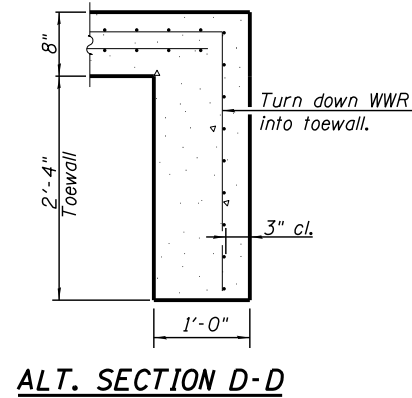
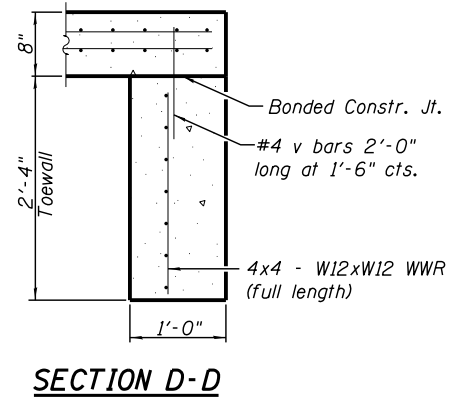
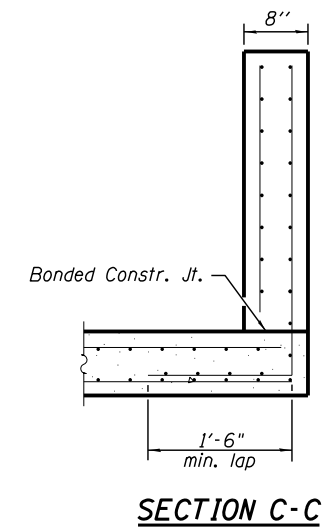
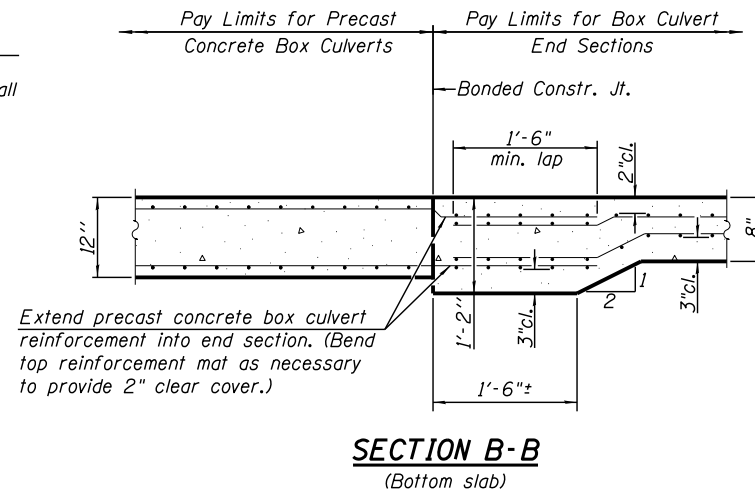
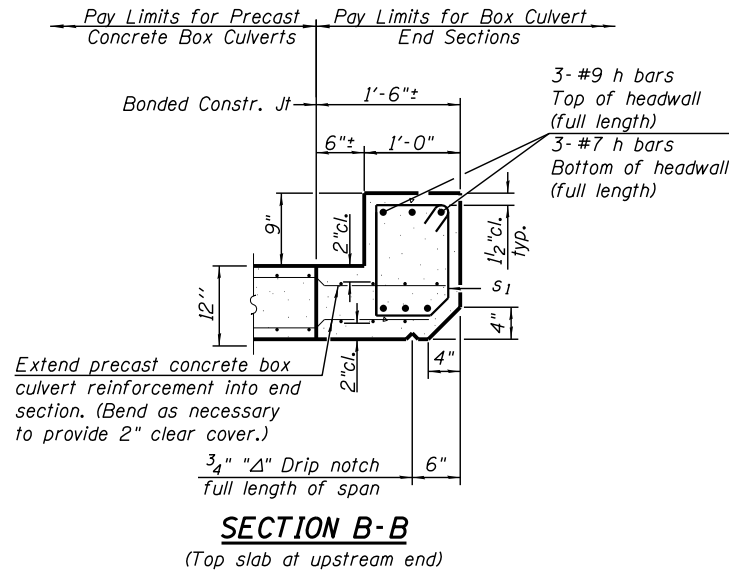
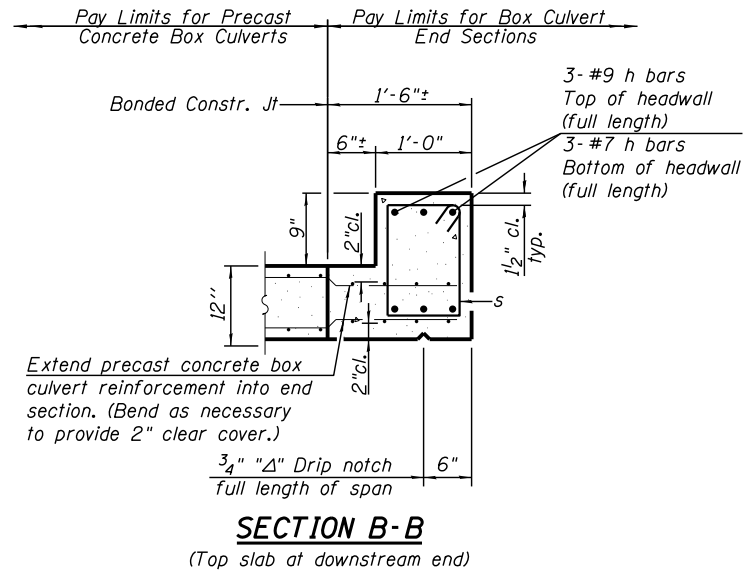
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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MULTI-CELL PRECAST CONCRETE BOX CULVERT APRON END
SECTION DETAILS - STRUCTURE NO. 033-2009

SCALE: SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
882	102B-3	HAMILTON	33	22
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				

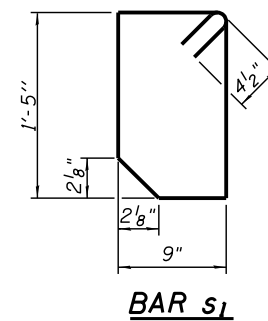
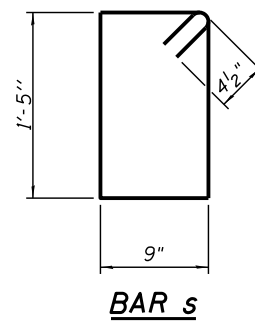


TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
2. Backfill accordingly and prepare bedding for box culvert end sections.
3. Construct remainder of box culvert end section.

Note:

If soil conditions permit, the toewall may be poured monolithically with the bottom slab of the end section using Alt. Section D-D subject to approval from the Engineer.



**BILL OF MATERIAL
ONE END SECTION ONLY**
(For information only)

Item	Unit	Total
Concrete Structures	Cu. Yd.	31.6

(Sheet 2 of 2)



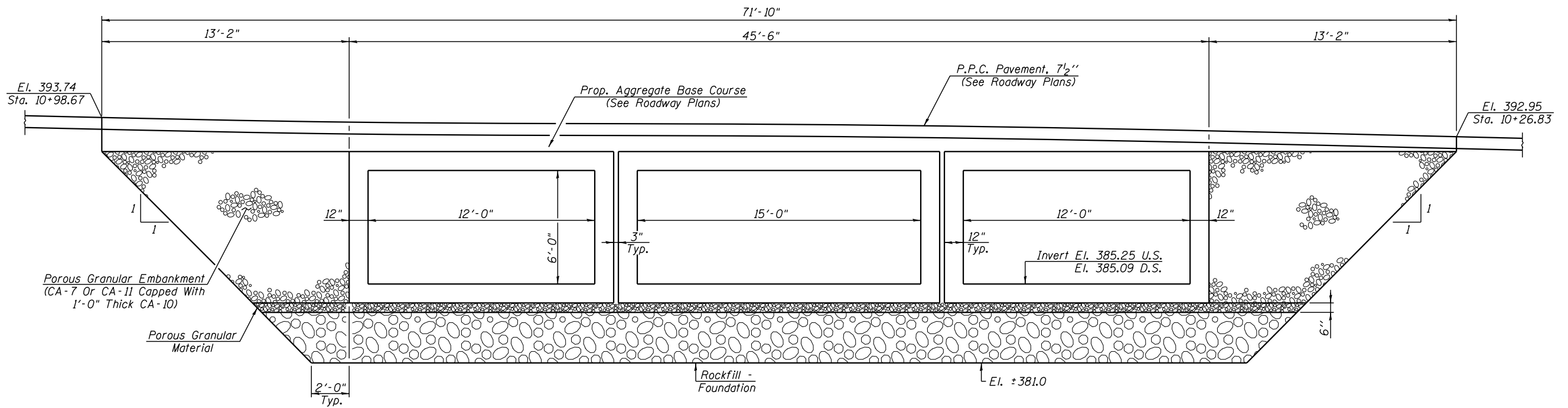
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

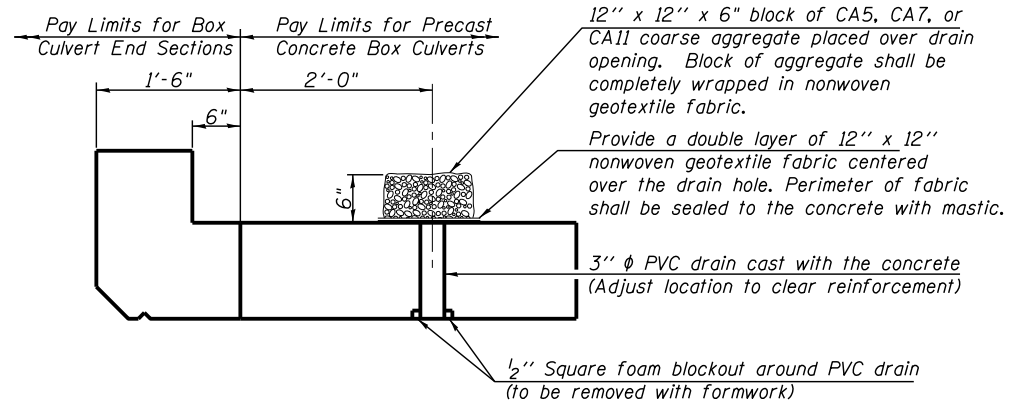
MULTI-CELL PRECAST CONCRETE BOX CULVERT APRON END
SECTION DETAILS - STRUCTURE NO. 033-2009

SCALE: SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
882	102B-3	HAMILTON	33	23
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				

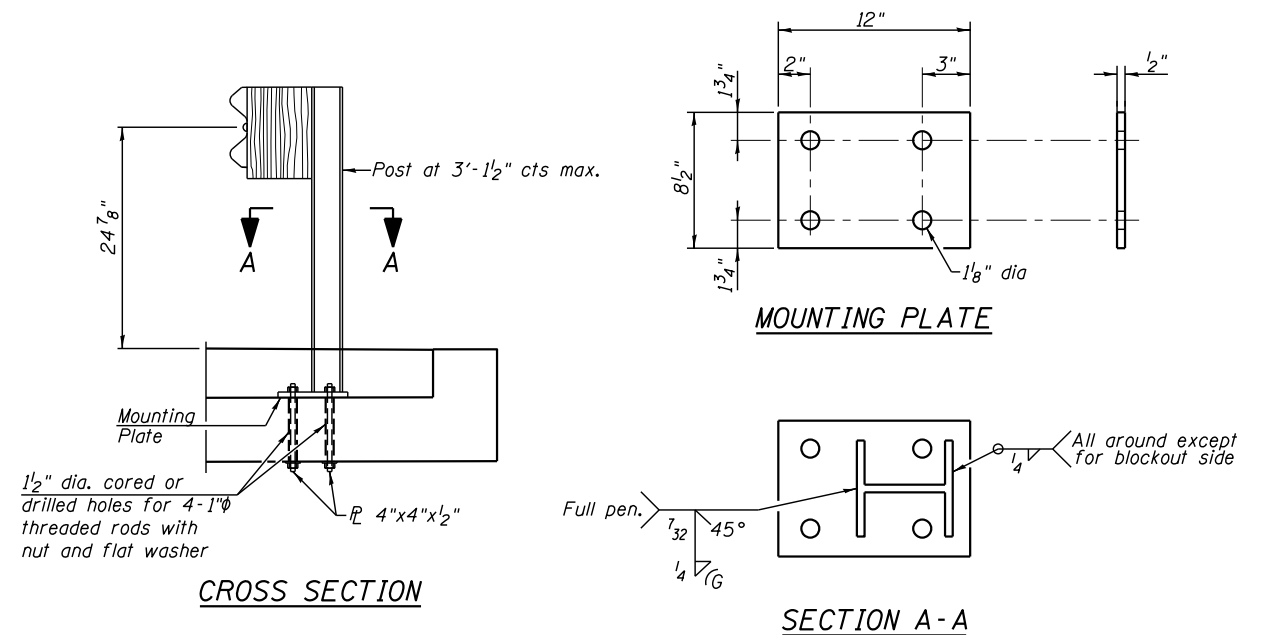


SECTION THRU CULVERT
(Looking South)



DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



CROSS SECTION

SECTION A-A

Sta. 10+40 20.7' Lt. to Sta. 10+85.5 15' Lt. &
Sta. 10+40 33.5' Rt. to Sta. 10+85.5 20.3' Rt.

GENERAL NOTES

Work shown in the "Section Thru Culvert" shall be performed in accordance with applicable portions of Section 207 and Section 540 of the Standard Specifications.

Porous Granular Embankment shall extend 2 ft. beyond the headwalls.

Porous Granular Material, CA-7 (6') included in Precast Concrete Box Culvert 12'x6' or 15'x6'.

STRONG POST GUARDRAIL ATTACHED TO CULVERT



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PLOT DATE =	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS
STRUCTURE NO. 033-2009**

SCALE: SHEET NO. 4 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
882	102B-3	HAMILTON	33	24
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation
Boring Log

FAS 882 (Blairsville Road) Over stream
Route: FAS 882 Structure Number: 033-0024 (existing) Date: 10/2/2007
Section 102-B-1 Bores By: RM
County: Hamilton Location: Intersection IL 242 & Blairsville Rd Checked By: RM

DEPTH	SOIL DESCRIPTION	TYPE	QU	W%	DEPTH	SOIL DESCRIPTION	TYPE	QU	W%
392.0	Asphalt, Concrete and soil				387.0	Very loose, very moist to wet, brown, Fine Silty Sand 86% Sand, 11% Silt, 3% Clay	1 3		25
389.5	Stiff, moist, grey, Silty Clay Loam A-5	2 4 3	1.6B	19	362.0	Stiff, very moist, grey, Clay A7-5 with Sand layers	6 4 8	1.1B	25
387.0	Stiff, moist to very moist, grey mottled brown, Silty Clay A-6	5.0 2 3	1.1B	24	362.0	Stiff, moist, grey, Clay to Clay Loam A7-6	2 11 11	1.5B	25
384.5	Stiff, moist to very moist, grey mottled brown, Clay to Silty Clay A-6	1 3 4	1.1S	27	357.0	Stiff, moist, grey, Clay to Clay Loam A7-6	2 11 11	1.5B	13
382.0	Medium, moist to very moist, grey mottled brown, Silty Clay A-6	10.0 3 3	0.8S	22	357.0	Stiff, moist, grey, Clay to Clay Loam A7-6	4 20 18	1.8B	13
372.0	Stiff to very stiff, moist, brown mottled grey, Clay to Silty Clay A7-6	1 3 3	1.6B	22	357.0	Hard, damp, grey, Clay Loam A-4	10 34 45	4.5S	10
		15.0 3 5	2.5B	19			40.0 28 35	4.3S	17
		2 3 4	1.6B	29					
		20.0 3 4	1.1B	22			45.0 42 40	5.0S	10
370.5	Very soft, very moist, brown, Silty Clay to Silty Clay Loam A-4	1 2 4	0.2E	18					
	Very loose, very moist to wet, brown, Fine Silty Sand 86% Sand, 11% Silt, 3% Clay	25.0	WH				50.0	7	

N-Std Penetr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated F-Penetrometer)

Sheet 2 of 2

Route: FAS 882 Date: 10/2/2007
Section: 102-B-1
County: Hamilton

DEPTH	SOIL DESCRIPTION	TYPE	QU	W%	DEPT H	SOIL DESCRIPTION	TYPE	QU	W%
343.5	Hard, damp, gr. Clay Loam				27				
343.0	Hard, dry, grey, Clay Shale				73				
	Bottom of hole = 50.8 feet								
	Free water observed at 23.0 ft								
	Elevation referenced to plans; Cr elevation = 395.0 feet				55.0				80.0
	To convert "N" values to "N60" values multiply by 1.25								
					60.0				85.0
					65.0				90.0
					70.0				95.0
					75.0				100.0

N-Std Penetr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated F-Penetrometer)



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

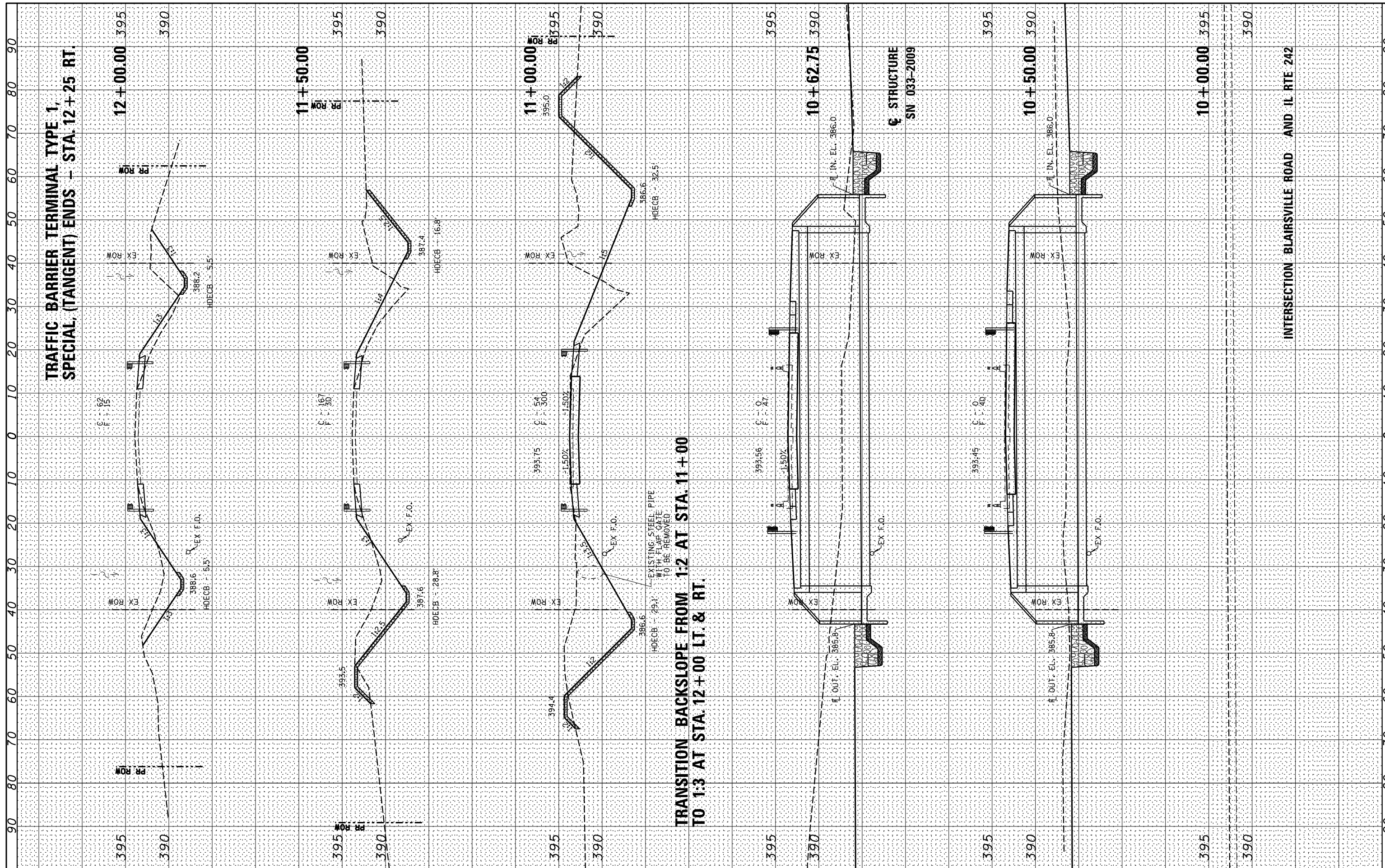
BORING LOGS
STRUCTURE NO. 033-2009

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
882	102B-3	HAMILTON	33	26
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				

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BY _____	DATE _____
NO.	AREAS CHECKED

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED
BY _____	DATE _____
NO.	AREAS CHECKED



TRAFFIC BARRIER TERMINAL TYPE 1,
SPECIAL, (TANGENT) ENDS - STA. 12+25 RT.

TRANSITION BACKSLOPE FROM 1:2 AT STA. 11+00
TO 1:3 AT STA. 12+00 LT. & RT.

STRUCTURE
SN 033-2009

INTERSECTION BLAIRSVILLE ROAD AND IL RTE 242



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

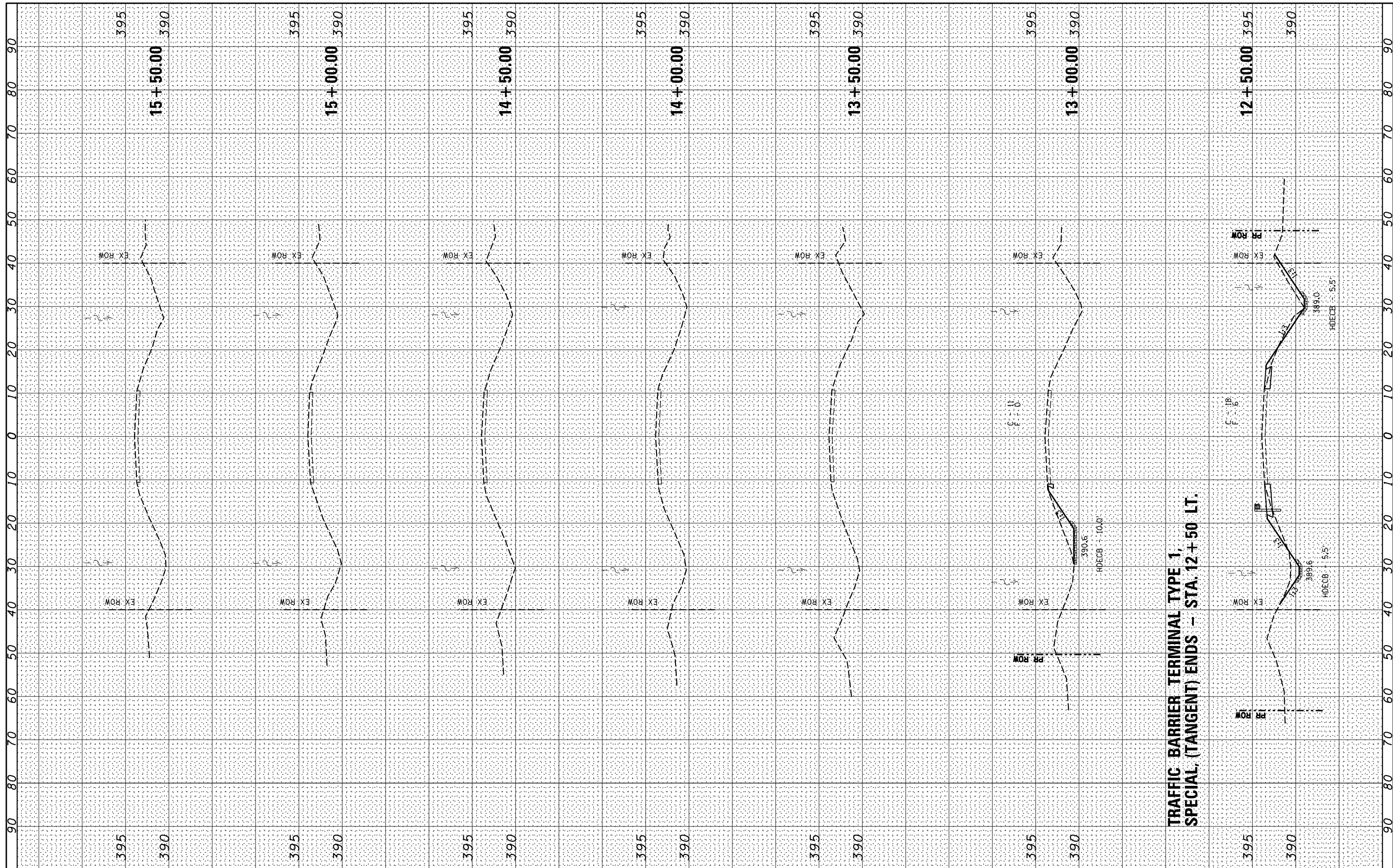
CROSS SECTIONS - CH 10

SCALE: _____ SHEET 1 OF 2 SHEETS STA. 10+00.00 TO STA. 12+00.00

F.A.S. RTE. 882	SECTION 102B-3	COUNTY HAMILTON	TOTAL SHEETS 33	SHEET NO. 27
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				

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NOTE BOOK NO.	PLOTTED		
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	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



Veenstra & Kimm, Inc.
Springfield, IL Phone: (217)544-8033

USER NAME : *USER*	DESIGNED -	REVISOR -
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	DATE -	REVISOR -

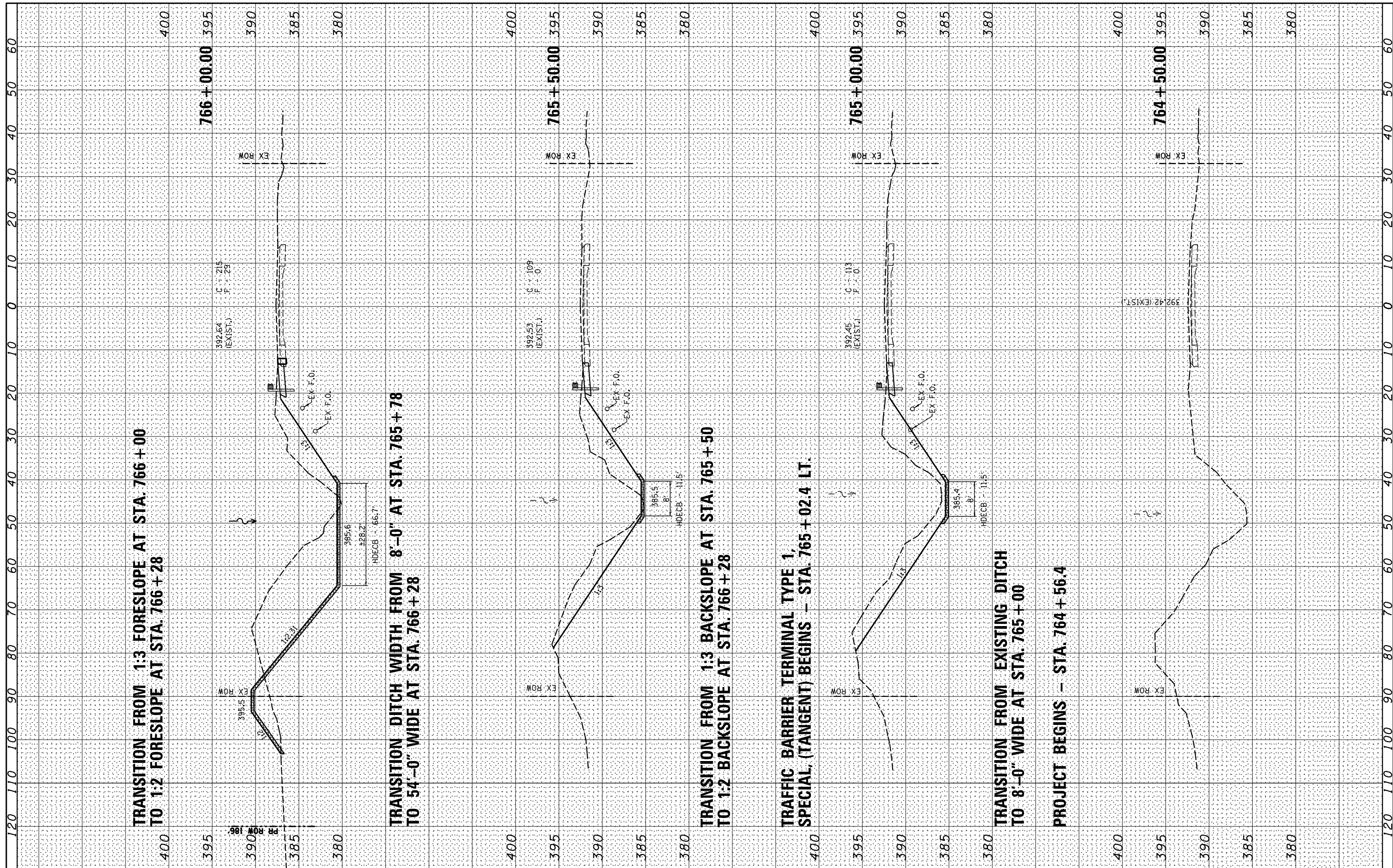
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS - CH 10
SCALE: _____ SHEET 2 OF 2 SHEETS STA. 12+50.00 TO STA. 15+50.00

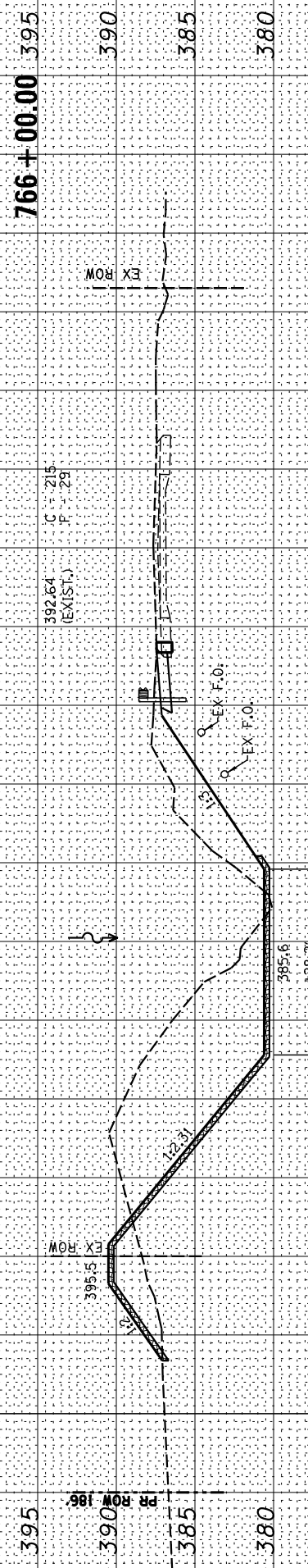
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CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				

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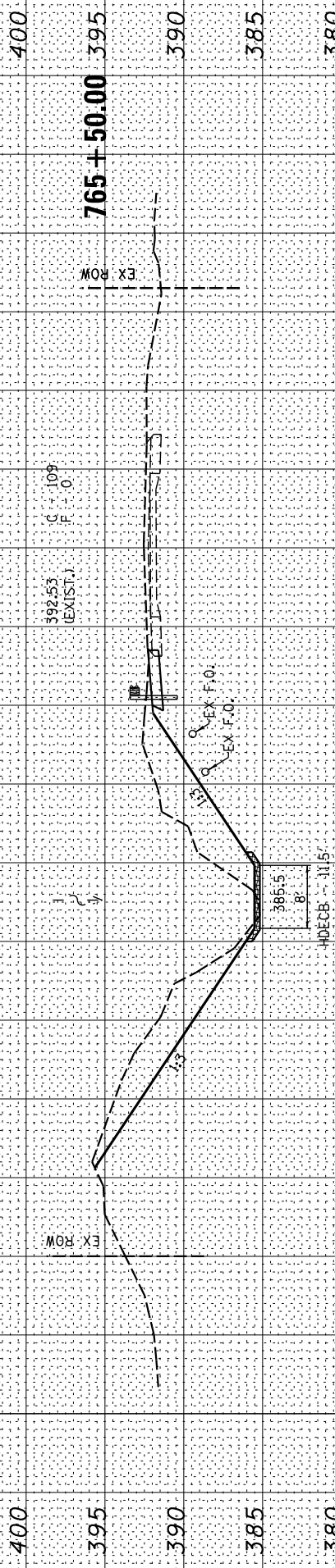
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TRANSITION FROM 1:3 FORESLOPE AT STA. 766 + 00
TO 1:2 FORESLOPE AT STA. 766 + 28

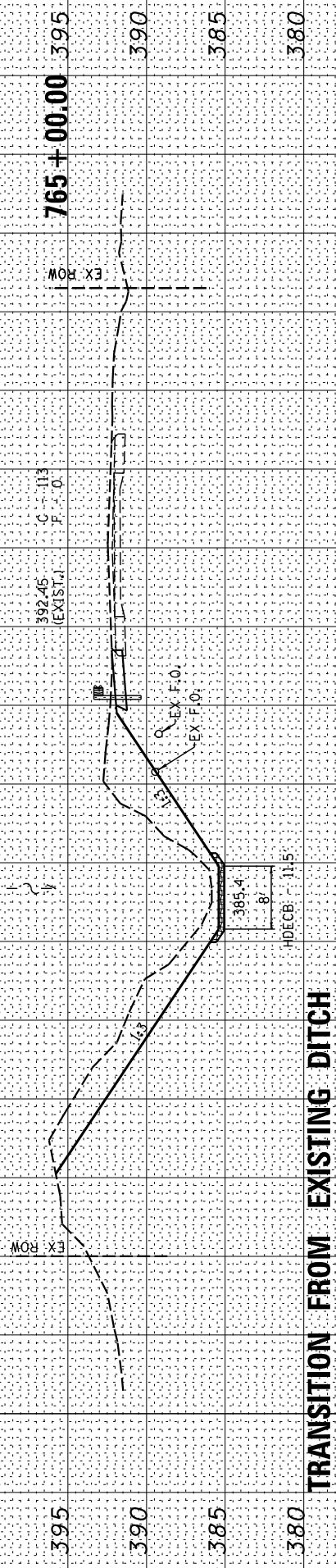


TRANSITION DITCH WIDTH FROM 8'-0" AT STA. 765 + 78
TO 54'-0" WIDE AT STA. 766 + 28



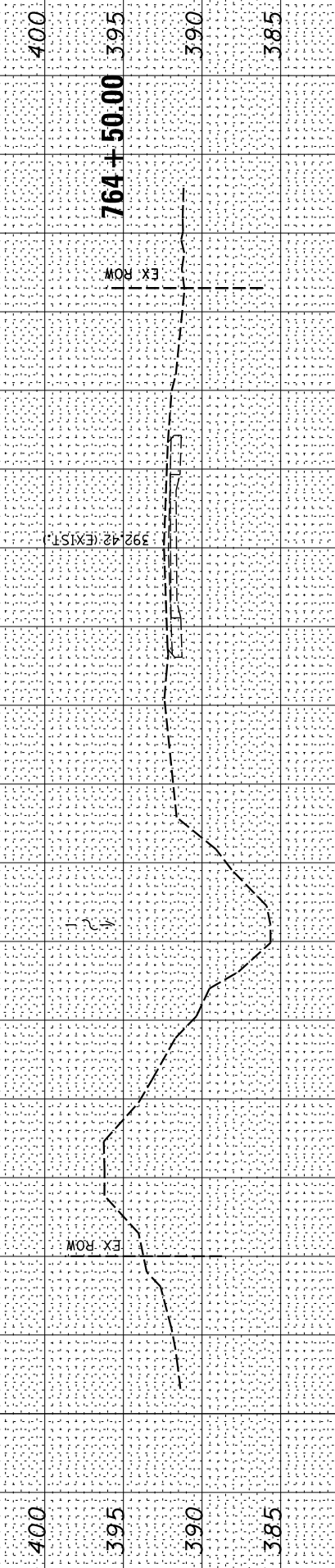
TRANSITION FROM 1:3 BACKSLOPE AT STA. 765 + 50
TO 1:2 BACKSLOPE AT STA. 766 + 28

TRAFFIC BARRIER TERMINAL TYPE 1,
SPECIAL, (TANGENT) BEGINS - STA. 765 + 02.4 LT.



TRANSITION FROM EXISTING DITCH
TO 8'-0" WIDE AT STA. 765 + 00

PROJECT BEGINS - STA. 764 + 56.4



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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET 1	OF 4	SHEETS	STA. 764+50.00	TO STA. 766+00.00
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CROSS SECTIONS - IL 242

F.A.S. RTE. 882	SECTION 102B-3	COUNTY HAMILTON	TOTAL SHEETS 33	SHEET NO. 29
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				

BY DATE

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SURVEYED PLOTTED

NOTE BOOK TEMPLATE

AREAS CHECKED

NO. AREAS CHECKED

BY DATE

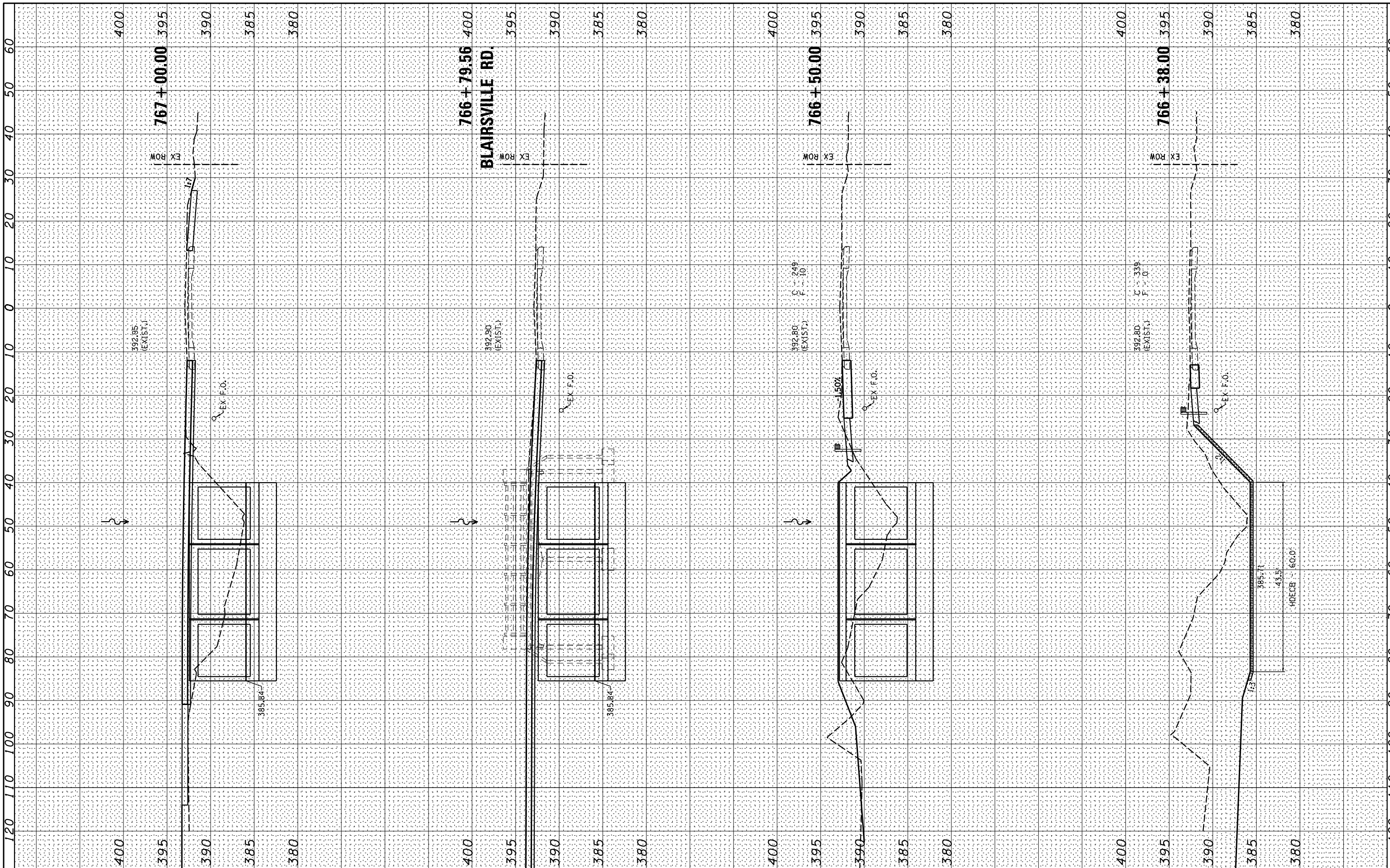
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SURVEYED PLOTTED

NOTE BOOK TEMPLATE

AREAS CHECKED

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

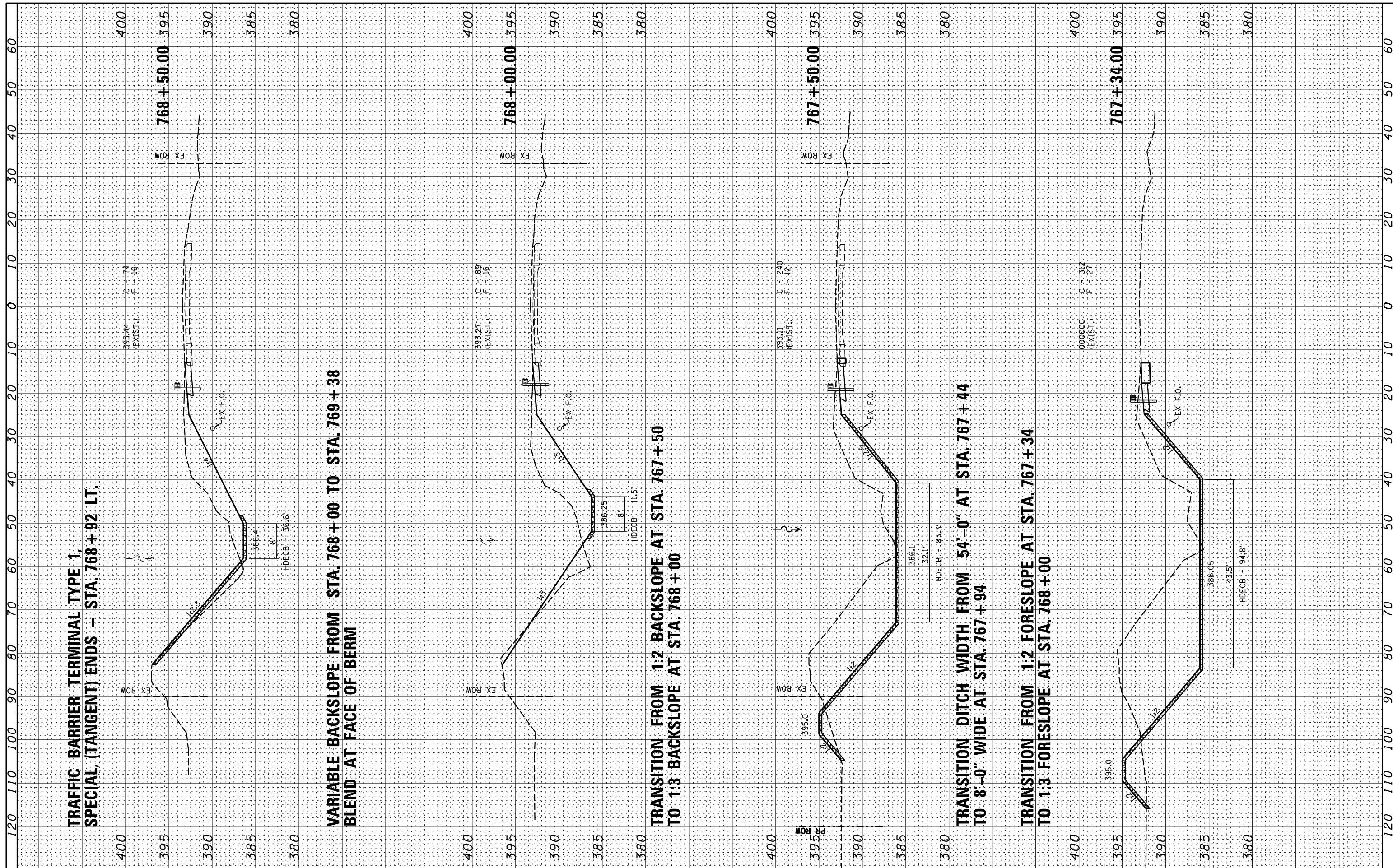
CROSS SECTIONS - IL 242

SCALE: SHEET 2 OF 4 SHEETS STA. 766+38.00 TO STA. 767+00.00

F.A.S. RTE. 882	SECTION 102B-3	COUNTY HAMILTON	TOTAL SHEETS 33	SHEET NO. 30
CONTRACT NO. 78080				ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED	BY	DATE
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AREAS CHECKED	TEMPLATE		
AREAS CHECKED	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
AREAS CHECKED	PLOTTED		
AREAS CHECKED	TEMPLATE		
AREAS CHECKED	AREAS CHECKED		



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USER NAME = *USER*	DESIGNED -	REVISED -
PLOT SCALE = *SCALE*	DRAWN -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

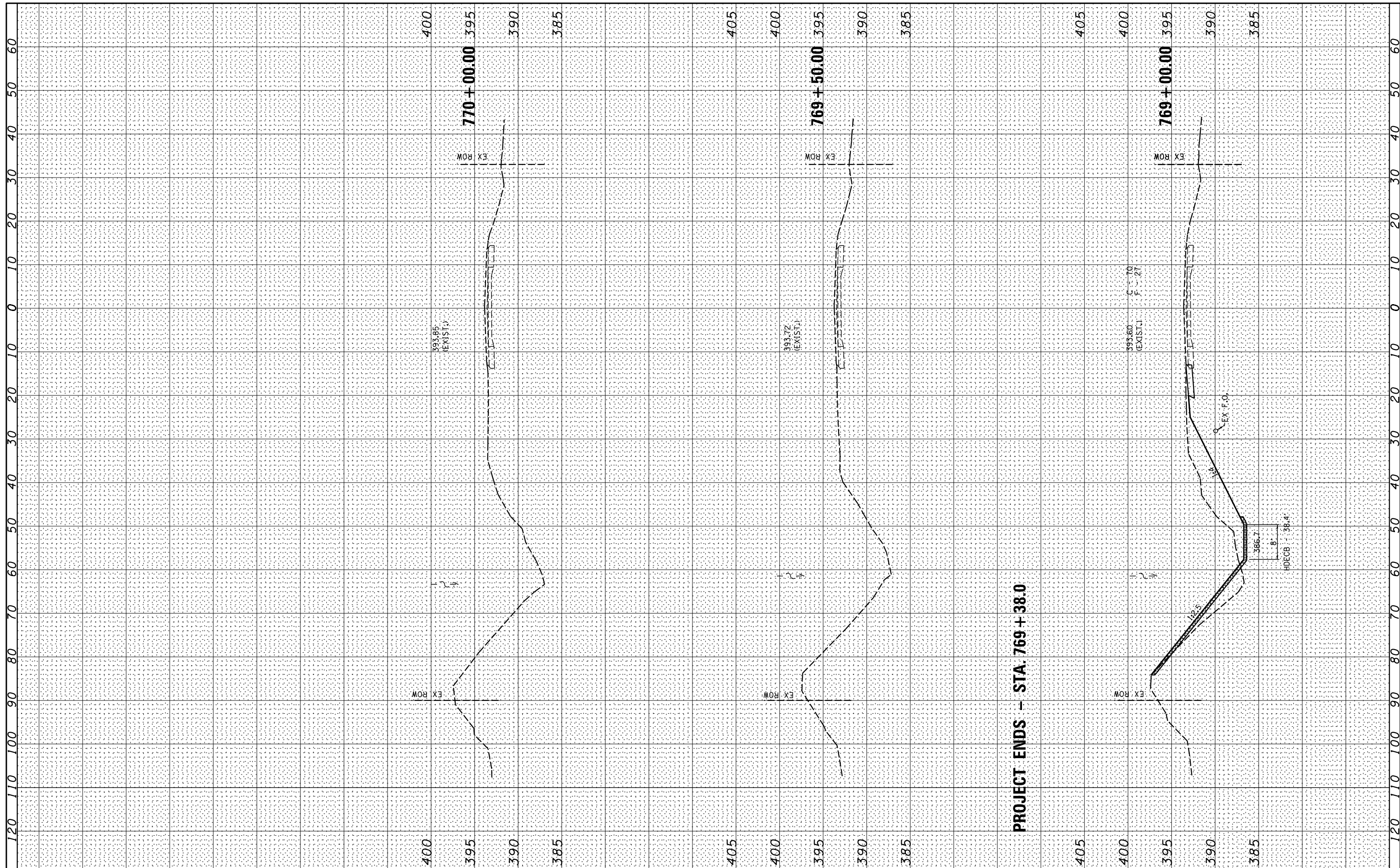
SCALE:		SHEET 3 OF 4 SHEETS		STA. 767+18.00 TO STA. 768+00.00	
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CROSS SECTIONS - IL 242

F.A.S. RTE. 882	SECTION 102B-3	COUNTY HAMILTON	TOTAL SHEETS 33	SHEET NO. 31
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



PROJECT ENDS - STA. 769 + 38.0



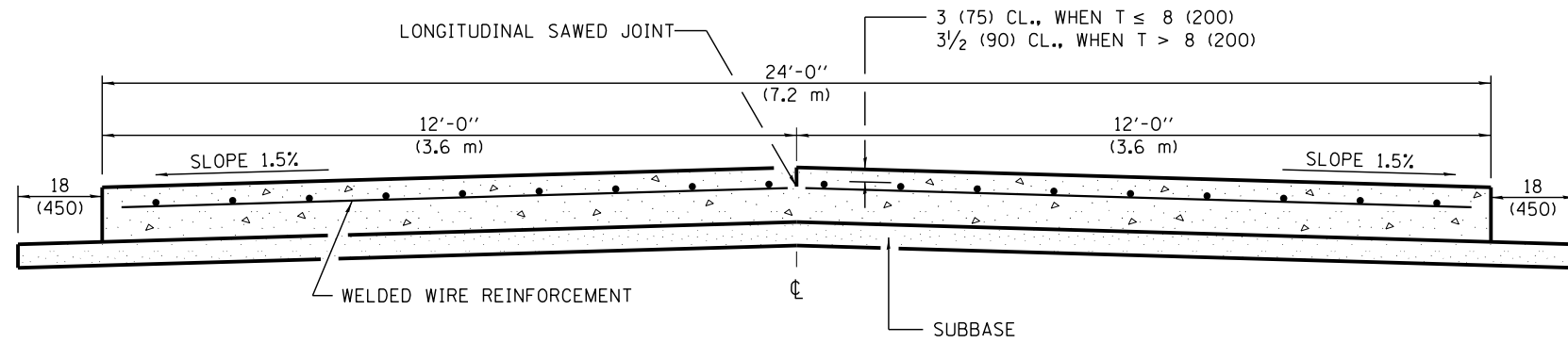
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

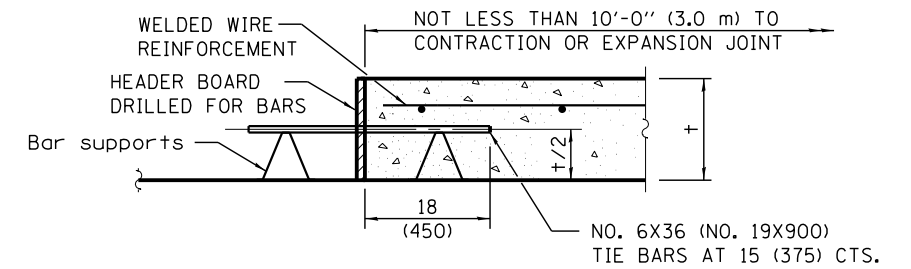
CROSS SECTIONS - IL 242
SCALE: SHEET 4 OF 4 SHEETS STA. 768+50.00 TO STA. 770+00.00

F.A.S. RTE. 882	SECTION 102B-3	COUNTY HAMILTON	TOTAL SHEETS 32	SHEET NO. 31
CONTRACT NO. 78080				
ILLINOIS FED. AID PROJECT				

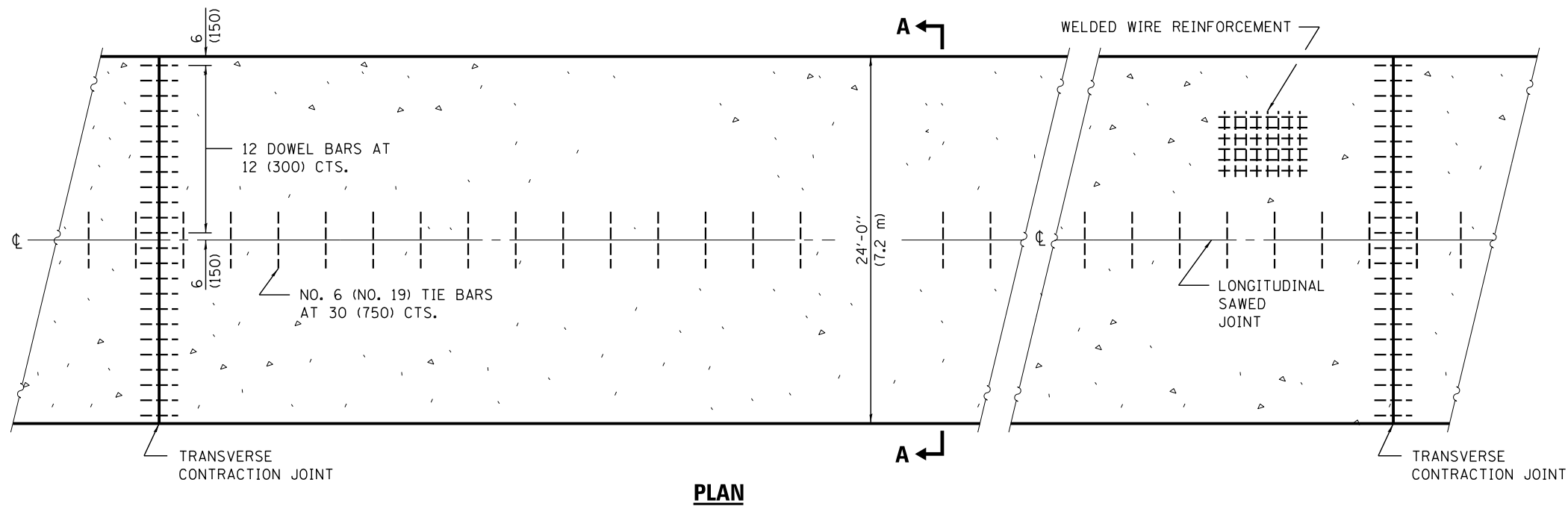
24' (7.2 m) PCC PAVEMENT OVER BOX CULVERT



SECTION A-A
(TYPICAL 2-LANE WITH SHOULDERS)



TRANSVERSE CONSTRUCTION JOINT



PLAN

GENERAL NOTES

SEE STANDARD 420001 FOR DETAILS NOT SHOWN.
SEE STANDARD 420701 FOR WELDED WIRE REINFORCEMENT DETAILS.
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS

DRAWN	11-9-17



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PLOT DATE =	CHECKED -	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PCC PAVEMENT OVER BOX CULVERT

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

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