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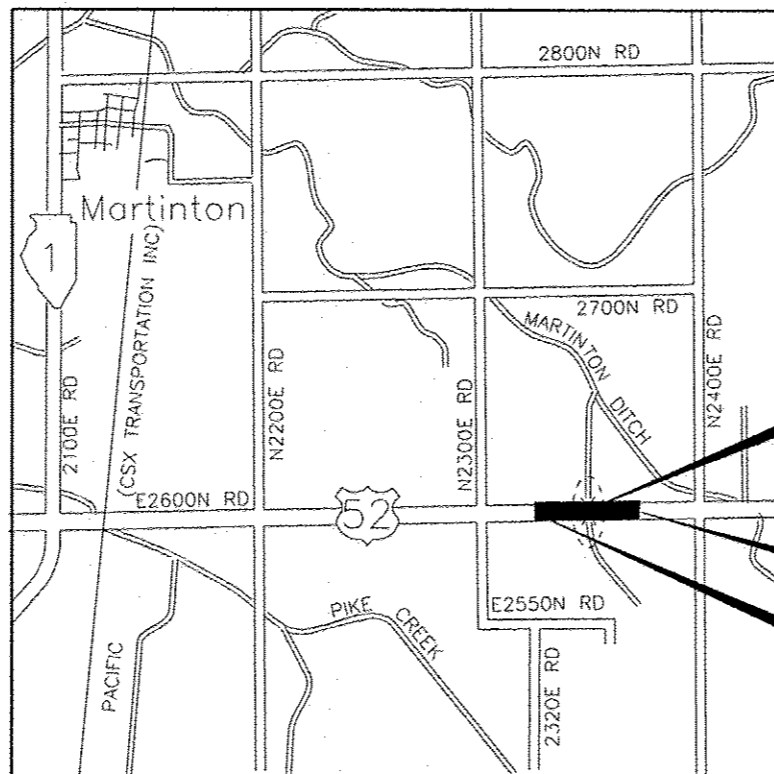
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

STATE OF ILLINOIS 06-12-2015 LETTING ITEM 060

DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

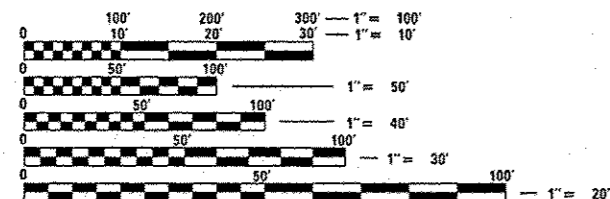
FAS 315 (US 52)
SECTION 120 BR-1
PROJECT: ACRS-0315 (104)
IROQUOIS COUNTY
C - 93 - 105 - 14

REMOVAL AND REPLACEMENT OF STRUCTURE
OVER MARTINTON DITCH NO. 3
LOCATED APPROX. 2.6 MILES EAST OF IL 1



LOCATION MAP

NOT TO SCALE
 GROSS LENGTH = 320 FT. = 0.061 MI.
 NET LENGTH = 320 FT. = 0.061 MI.



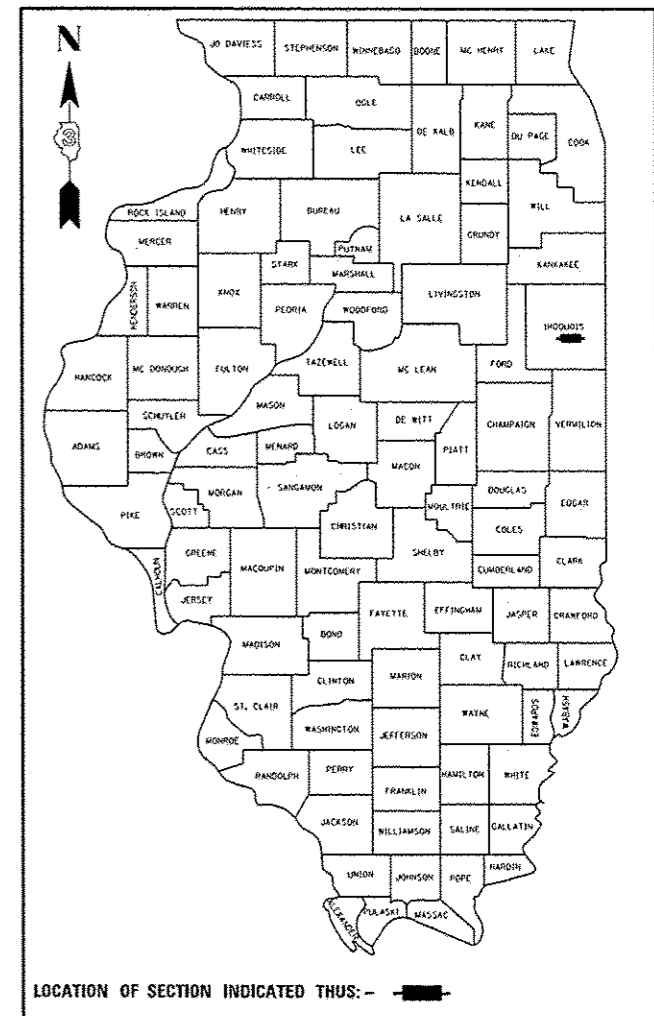
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

DISTRICT 3 NO. (815) 434-6131
PROJECT ENGINEER: JOSEPH KANNEL, P.E.
UNIT CHIEF: MICHELE LINDEMANN, P.E.
TOWNSHIP: MARTINTON (T28N, R12W, SEC. 23, 26)
CONTRACT NO. 66C36

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	120 BR-1	IROQUOIS	30	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 66C36		

D-93-056-14
 P-93-048-02



LOCATION OF SECTION INDICATED THUS: - [black rectangle]

FUNCTION CLASSIFICATION

MAJOR COLLECTOR (NON-URBAN)
 2013 ADT = 1550
 P.V. = 83.2% S.U. = 5.2% M.U. = 11.6%

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED March 27 2015
Paul Coste DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 8 2015
John D. Baranzelli PE, CHIEF ENGINEER OF DESIGN AND ENVIRONMENT

May 8 2015
Chris Conner PE, CHIEF ENGINEER OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

DELTA ENGINEERING GROUP, LLC
 CONSULTING ENGINEERS, CONSTRUCTION MANAGERS, SURVEYORS
 111 W JACKSON BLVD, SUITE 910
 CHICAGO, IL 60604
 T 312.377.7700, F 312.427.6145

HIGHWAY STANDARDS:

- BLR 21-9 TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- 000001-06 STANDARDS SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 482001-02 HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
- 482011-03 HMA SHOULDER STRIPS / SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
- 515001-03 NAME PLATE FOR BRIDGES
- 542001-04 CONCRETE END SECTIONS FOR PIPE CULVERTS 15" THRU 84" DIA.
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 542401-01 METAL END SECTION FOR PIPE CULVERTS
- 630001-10 STEEL PLATE BEAM GUARDRAIL
- 630106-01 LONG-SPAN GUARDRAIL OVER CULVERT
- 630201-06 PCC / HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-06 SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 666001-01 PERMANENT SURVEY MARKERS
- 667101-02 RIGHT OF WAY MARKERS
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, 15' MINIMUM FROM PAVEMENT EDGE
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO PAVEMENT EDGE, FOR SPEEDS >= 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701901-04 TRAFFIC CONTROL DEVICES
- 720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-03 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

10. ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

11. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

12. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

13. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS/CU YD
HMA RESURFACING	112	LBS/SQ YD/IN
SHORT TERM PAVEMENT MARKING	10	FT/100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS/SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS/SQ YD
SUPPLEMENTAL WATERING	3	GAL/SQ YD/ APPLICATION
CALCIUM CHLORIDE	2	LB/SQ YD/ APPLICATION
AGGREGATE DITCH CHECKS	5	TONS AGGREGATE

14. MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:
EASTERN ILLINI ELECTRIC
FRONTIER

COMMITMENTS:

GENERAL NOTES:

1. THE THICKNESS OF HMA 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 HMA IS PLACED.
2. THE BASE COURSE WIDENING SHALL BE CARRIED THROUGH ALL ENTRANCES, SIDE ROADS, AND MAILBOX TURNOUTS. EXCEPTIONS WILL BE SHOWN ON THE PLANS.
3. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
4. BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.
5. THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.
6. FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
7. SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDDED WILL BE DETERMINED BY THE ENGINEER.
8. ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
9. THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

REVIEWED BY: *Tom Beaulieu*
DISTRICT STUDIES & PLANS ENGINEER

DATE: *March 27, 2015*

EXAMINED BY: *Heidi J...*
DISTRICT CONSTRUCTION ENGINEER

Bruce G. Hecker
DISTRICT OPERATIONS ENGINEER

Ray...
DISTRICT MATERIALS ENGINEER

FILE NAME: c:\pwork\psdot\corcoran\m\0386921\2.DWG	USER NAME: corcoranm	DESIGNED - TC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS	F.A.S. RTE. 315	SECTION 120BR-1	COUNTY IROQUOIS	TOTAL SHEETS 30	SHEET NO. 2		
PLT SCALE: 2.8800 / 1 in	PLT DATE: 3/25/2015	DRAWN - RM	REVISED -			SCALE:	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 66C36			
		CHECKED - JA	REVISED -			ILLINOIS FED. AID PROJECT						
		DATE - 9/30/2014	REVISED -									

PLAN	SURVEYED	BY	DATE
	ALIGNED		
	NOTED		
	RT. OF WAY CHECKED		
	ADD FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	ALIGNED		
	NOTED		
	RT. OF WAY CHECKED		
	ADD FILE NAME		
	NO.		

CONSTR. CODE
86% FED.
20% STATE
BOX CULVERT
0040
S. N. 038-2028

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
20200100	EARTH EXCAVATION	CU YD	507	507
20400800	FURNISHED EXCAVATION	CU YD	26	26
20700220	POROUS GRANULAR EMBANKMENT	CU YD	421	421
20900110	POROUS GRANULAR BACKFILL	CU YD	44	44
25000300	SEEDING, CLASS 3	ACRE	0.42	0.42
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	38	38
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	38	38
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	38	38
25100630	EROSION CONTROL BLANKET	SQ YD	2033	2033
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	42	42
28000305	TEMPORARY DITCH CHECKS	FOOT	138	138
28000400	PERIMETER EROSION BARRIER	FOOT	336	336
28000500	INLET AND PIPE PROTECTION	EACH	1	1
28100107	STONE RIPRAP, CLASS A4	SQ YD	175	175

* SPECIALTY ITEMS

FILE NAME : c:\pwork\pedit\corcoran\140306921\3.066C36-shr-5001.dgn	USER NAME : corcoran	DESIGNED - YC	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES SHEET 1 OF 5	F.A.S. RTE. 315	SECTION 120BR-1	COUNTY IROQUOIS	TOTAL SHEETS 30	SHEET NO. 3		
PLOT SCALE = 2.0000' / 1" =	DRAWN - RM	CHECKED - JA	REVISIONS -			SCALE:	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 66C36			
PLOT DATE = 3/25/2015	DATE - 9/30/2014	REVISIONS -	REVISIONS -			[ILLINOIS] FED. AID PROJECT						

PLAN	DESIGNED	BY	DATE
NOTE BOOK	PROF. CHECKED		
NO.	STRUCTURE		

PROFILE	DESIGNED	BY	DATE
NOTE BOOK	PROF. CHECKED		
NO.	STRUCTURE		

CONSTR. CODE
80% FED.
20% STATE
BOX CULVERT
0040
S. N. 038-2028

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
28200200	FILTER FABRIC	SO YD	175	175
31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	187	187
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	184	184
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	63	63
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1064	1064
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	0.38	0.38
40600525	LEVELING BINDER (HAND METHOD), N50	TON	0.72	0.72
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	61	61
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	122	122
44000100	PAVEMENT REMOVAL	SQ YD	112	112
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	1274	1274
48101200	AGGREGATE SHOULDERS, TYPE B	TON	10	10
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	720	720
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1

* SPECIALTY ITEMS

FILE NAME : c:\pwork\p1dot\corcoran\140326921\4...	USER NAME : corcoran	DESIGNED - TC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES SHEET 2 OF 5				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - RM	REVISED -		315	1208R-1	IRDOUGIS	30	4				
		CHECKED - JA	REVISED -						CONTRACT NO. 66C36				
		DATE - 9/30/2014	REVISED -						ILLINOIS FED. AID PROJECT				

CONSTR. CODE
 80% FED.
 20% STATE
 BOX CULVERT
 0040
 S. N. 038-2028

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
50105220	PIPE CULVERT REMOVAL	FOOT	28	28
50200100	STRUCTURE EXCAVATION	CU YD	767	767
51500100	NAME PLATES	EACH	1	1
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	4	4
54011008	PRECAST CONCRETE BOX CULVERTS 10' X 8'	FOOT	78	78
54200220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	54	54
54213450	END SECTIONS 15"	EACH	2	2
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	25	25
* 63000370	LONG-SPAN GUARDRAIL OVER CULVERT, 25 FT SPAN	FOOT	325	325
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4	4
63200310	GUARDRAIL REMOVAL	FOOT	413	413
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8	8
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4

* SPECIALTY ITEMS

CONSTR. CODE
 80% FED.
 20% STATE
 BOX CULVERT
 0040
 S.N. 038-2028

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
67100100	MOBILIZATION	L SUM	1	1
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	22	22
70300100	SHORT TERM PAVEMENT MARKING	FOOT	50	50
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1000	1000
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	125	125
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	17	17
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2000	2000
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	250	250
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	7	7
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	6	6
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
78300100	PAVEMENT MARKING REMOVAL	SO FT	395	395
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	7	7

• SPECIALTY ITEMS

705 10 3110

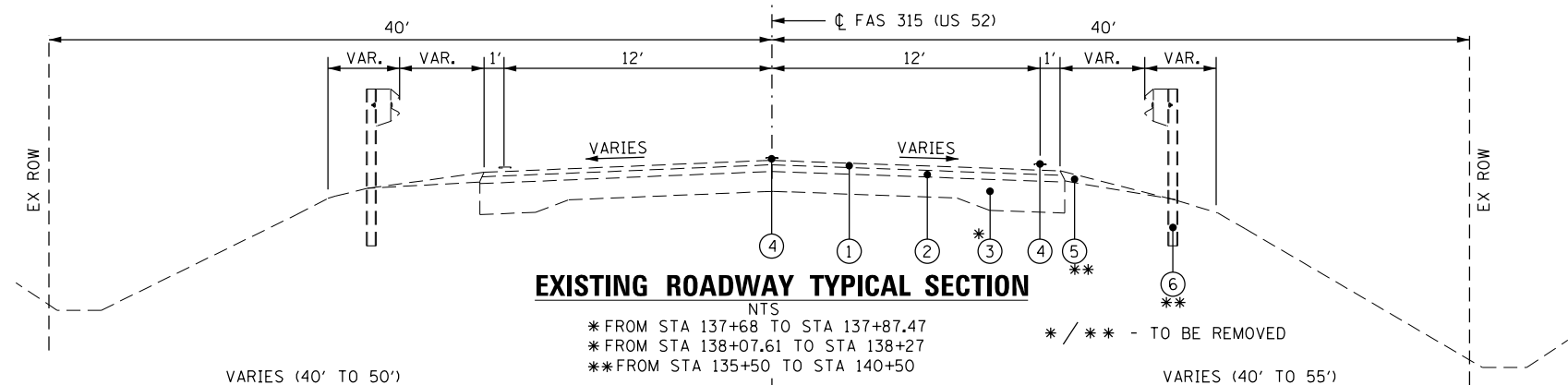
CONSTR. CODE
80% FED.
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BOX CULVERT
				S. N. 038-2028
X7010216	TRAFFIC CONTROL AND PROTECTION. (SPECIAL)	L SUM	1	1
Z0021700	EXPANSION JOINT REHABILITATION	FOOT	52	52
Z0030850	TEMPORARY INFORMATION SIGNING	50 FT	42	42

• SPECIALTY ITEMS

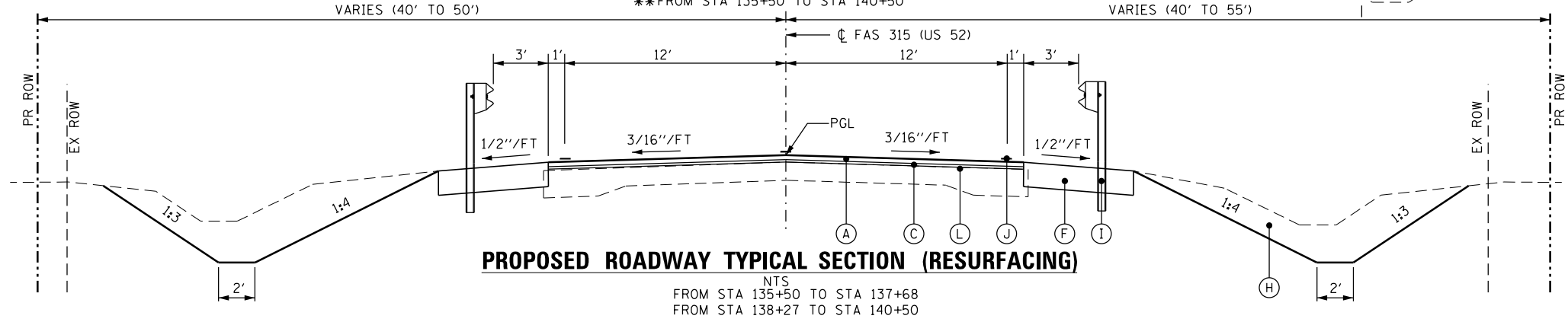
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	FILE NAME
NO.	

DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	GRADES CHECKED
	STRUCTURE NOTATIONS CHECKED
NO.	



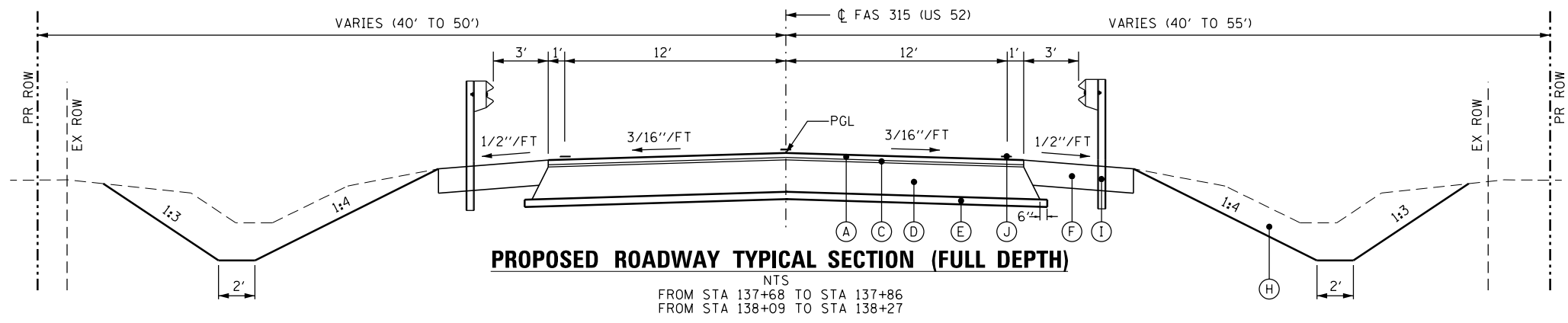
EXISTING ROADWAY TYPICAL SECTION

NTS
 * FROM STA 137+68 TO STA 137+87.47
 * FROM STA 138+07.61 TO STA 138+27
 ** FROM STA 135+50 TO STA 140+50
 * / ** - TO BE REMOVED



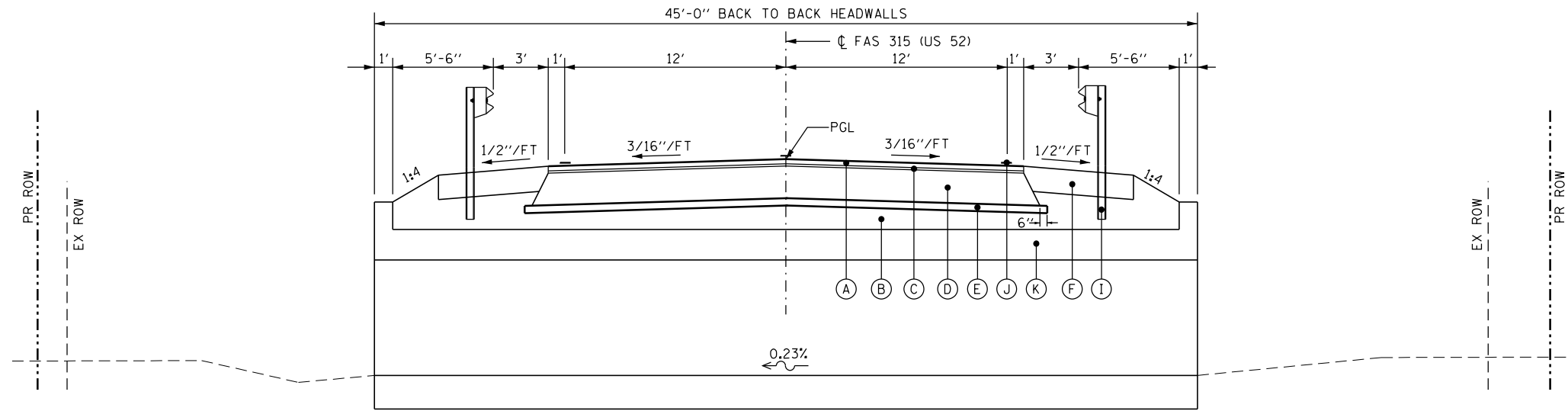
PROPOSED ROADWAY TYPICAL SECTION (RESURFACING)

NTS
 FROM STA 135+50 TO STA 137+68
 FROM STA 138+27 TO STA 140+50



PROPOSED ROADWAY TYPICAL SECTION (FULL DEPTH)

NTS
 FROM STA 137+68 TO STA 137+86
 FROM STA 138+09 TO STA 138+27



PROPOSED ROADWAY TYPICAL SECTION AT CULVERT

NTS
 FROM STA 137+86 TO STA 138+09

LEGEND:

EXISTING

- ① EXISTING HOT-MIX ASPHALT SURFACE CSE, 1 1/2"
- ② EXISTING HOT MIX ASPHALT BINDER CSE, 3/4" TO 1 1/2"
- ③ EXISTING PAVEMENT
- ④ EXISTING PAVEMENT MARKING
- ⑤ EXISTING AGGREGATE WEDGE SHOULDER (TYP.)
- ⑥ EXISTING STEEL PLATE BEAM GUARD RAIL (SEE PLAN FOR LOCATIONS)

PROPOSED

- Ⓐ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 1 1/2"
- Ⓑ PROPOSED POROUS GRANULAR EMBANKMENT
- Ⓒ PROPOSED LEVELING BINDER (MACHINE METHOD), N50, 3/4"
- Ⓓ PROPOSED HOT-MIX ASPHALT BASE COURSE 8"
- Ⓔ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A, 4"
- Ⓕ PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"
- Ⓖ PROPOSED EARTH EXCAVATION
- Ⓘ PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FT. POSTS
- Ⓝ PAINT PAVEMENT MARKING, SEE DETAIL SHEET
- Ⓚ PROPOSED PRECAST CONCRETE BOX CULVERTS 10'x8' (M273)
- Ⓛ HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"

NOTE:

- 1. SEE PLAN AND PROFILE SHEETS FOR HMA SHOULDER STABILIZATION LOCATIONS.

BITUMINOUS MIXTURE REQUIREMENTS

PAY ITEM	HMA BASE COURSE	HMA LEVEL BINDER	HMA SURFACE	HMA SHOULDERS (TOP 2")	HMA SHOULDERS (BOTTOM 6")
PG GRADE **	PG64-22	PG64-22	PG64-22	PG64-22	PG64-22
DESIGN AIR Voids	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL 19.0 FG	IL 9.5 FG	IL 9.5	IL 9.5	IL 19.0 FG
FRICTION AGGREGATE	-	-	MIXTURE C	MIXTURE C	-
DENSITY TEST METHOD	CORES	SATISFACTION OF THE ENGINEER	CORES	CORES	CORES

* MATERIAL SHALL BE COMPACTED TO 93.0 - 97.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUBGRADE THE MINIMUM PERCENT COMPACTION SHALL BE 92.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE OC/OA SPECIFICATION.

** WHEN RAP/RAS/ABR EXCEEDS 20 PERCENT, THE HIGH & LOW VIRGIN ASPHALT BINDER GRADES SHALL EACH BE REDUCED BY ONE GRADE (I.E. 25% ABR WOULD REQUIRE A VIRGIN ASPHALT BINDER GRADE OF PG 64-22 TO BE REDUCED TO PG 58-28)

FILE NAME =	USER NAME = rmemucod	DESIGNED - TC	REVISED -
G:\P1010101B W08 66C36 D3 CULVERT\00Sheet	Files\8_D366C36-sht-typical.dgn	DRAWN - RM	REVISED -
	PLOT SCALE = 2.0000' / in.	CHECKED - JA	REVISED -
	PLOT DATE = 10/8/2014	DATE - 10/8/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. +---+ TO STA. +---+

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	120BR-1	IROQUOIS	30	8
			CONTRACT NO. 66C36	
ILLINOIS FED. AID PROJECT				

PAVEMENT REMOVAL SCHEDULE

LOCATION			HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	PAVEMENT REMOVAL
STATION	TO	STATION	(SQ YD)	(SQ YD)
135+50.00	TO	137+68.00	630	
137+68.00	TO	137+87.47		56
138+07.61	TO	138+27.00		56
138+27.00	TO	140+50.00	644	
TOTAL			1274	112

PAVEMENT SCHEDULE

LOCATION	SIDE	SUB-BASE GRANULAR MATERIAL TY A 4"	HOT-MIX ASPHALT BASE COURSE 8"	BITUMINOUS MATERIALS (PRIME COAT)	MIXTURE FOR CRACKS, JOINTS AND FLANGEWAYS	LEVELING BINDER (MACHINE METHOD), N50	LEVELING BINDER (HAND METHOD), N50	HOT-MIX ASPHALT SURFACE COURSE MIX "C", N50	HOT-MIX ASPHALT SHOULDERS, 8"
STATION TO STATION	LT/RT	(SQ YD)	(SQ YD)	(POUND)	(TON)	(TON)	(TON)	(TON)	(SQ YD)
135+50.00 TO 140+50.00				1064	0.38	61	0.72	122	720
136+06.25 TO 139+88.75									
137+68.00 TO 138+27.00		187	184						
FIELD ENTRANCE AT STA. 139+32	RT								
TOTAL		187	184	1064	0.38	61	0.72	122	720

GUARDRAIL REMOVAL SCHEDULE

LOCATION			SIDE	GUARDRAIL REMOVAL
STATION	TO	STATION	LT/RT	(FOOT)
136+85.71	TO	136+99.94	LT	14
136+99.94	TO	137+87.81	LT	88
138+06.56	TO	138+99.29	LT	93
138+99.29	TO	139+10.03	LT	11
136+85.28	TO	136+99.68	RT	15
136+99.68	TO	137+87.86	RT	88
138+05.66	TO	138+98.96	RT	93
138+98.96	TO	139+09.93	RT	11
TOTAL				413

GUARDRAIL SCHEDULE

LOCATION	SIDE	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	LONG-SPAN GUARDRAIL OVER CULVERT, 25 FT SPAN	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	GUARDRAIL MARKERS, TYPE A	TERMINAL MARKER - DIRECT APPLIED		
STATION	TO	STATION	LT/RT	(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)
136+47.50	TO	136+97.50	RT			1		1
136+97.50	TO	137+10.00	RT	12.50				
137+10.00	TO	138+60.00	RT		150		3	
138+60.00	TO	139+10.00	RT			1		1
136+60.00	TO	137+10.00	LT			1		1
137+10.00	TO	138+85.00	LT		175		3	
138+85.00	TO	138+97.50	LT	12.50				
138+97.50	TO	139+47.50	LT			1		1
APPLIED AT EACH FACE OF TBT								
TOTAL				25.00	325	4	6	4

DRAINAGE STRUCTURE SCHEDULE

LOCATION	SIDE	STONE RIPRAP, CLASS A4	FILTER FABRIC	PIPE CULVERT REMOVAL	PIPE CULVERT, CLASS D, TYPE 1 15"	END SECTIONS 15"		
STATION	TO	STATION	LT/RT	(SQ YD)	(SQ YD)	(FOOT)	(FOOT)	(EACH)
137+50.00	TO	138+27.00	LT	74	74			
137+50.00	TO	138+50.00	RT	101	101			
139+17.89	TO	139+46.34	RT			28		
139+60.00	TO	139+06.65	RT				54	
139+06.65			RT					1
139+60.00			RT					1
TOTAL				175	175	28	54	2

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
	ALIGNMENT CHECKED	
	FIELD FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	

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	PLOT DATE = 10/8/2014	DATE - 10/8/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES OF QUANTITIES
SHEET 1 OF 2**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	120BR-1	IRROUOIS	30	9
CONTRACT NO. 66C36				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING AND TRAFFIC CONTROL

LOCATION			SIDE	SHORT TERM PAVEMENT MARKING	TEMPORARY PAVEMENT MARKING- LINE 4"	TEMPORARY PAVEMENT MARKING- LINE 6"	WORK ZONE PAVEMENT MARKING REMOVAL	PAINT PAVEMENT MARKING- LINE 4"	PAINT PAVEMENT MARKING- LINE 6"	RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	TEMPORARY INFORMATION SIGNING
STATION	TO	STATION		LT/RT/CL	(FOOT)	(FOOT)	(FOOT)	(SQ. FT.)	(FOOT)	(FOOT)	(EACH)	(EACH)
134+50	TO	140+50	CL	50		125	17		250	7	7	
134+50	TO	140+50	RT		500			1000				21
134+50	TO	140+00	LT		500			1000				21
TOTAL				50	1000	125	17	2000	250	7	7	42

NOTE:
ADDITIONAL QUANTITY HAS BEEN INCLUDED TO ALLOW FOR TWO SEPARATE APPLICATIONS OF PAINT PAVEMENT MARKING LINE.

EARTHWORK SCHEDULE

LOCATION			SIDE	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	FILL VOLUME	FURNISHED EXCAVATION
STATION	TO	STATION		LT/RT	(CU YD)	(CU YD)	(CU YD)
135+50.00	TO	140+00.00	RT	272	204	156	48
135+50.00	TO	140+00.00	LT	142	107	181	-74
137+68.00	TO	138+27.00					
137+97.50 RIP RAP EXCAVATION IN EXISTING CHANNEL				93			
TOTAL				507	311	337	-26

RIGHT-OF-WAY MARKERS

LOCATION	SIDE	FURNISHING AND ERECTING RIGHT OF WAY MARKERS
STATION	LT/RT	(EACH)
135+50.00, 40.00'	RT	1
136+00.00, 55.00'	RT	1
136+50.00, 40.00'	LT	1
137+00.00, 50.00'	LT	1
140+00.00, 55.00'	RT	1
140+00.00, 50.00'	LT	1
140+50.00, 40.00'	RT	1
140+50.00, 40.00'	LT	1
TOTAL		8

SEEDING AND EROSION CONTROL SCHEDULE

LOCATION			SIDE	SEEDING, CLASS 3	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION
STATION	TO	STATION		LT/RT	(ACRE)	(POUND)	(POUND)	(POUND)	(SQ YD)	(POUND)	(FOOT)	(FOOT)
135+50.00	TO	140+50.00	RT	0.24	22	22	22	1162	24	84		
135+50.00	TO	140+50.00	LT	0.18	16	16	16	871	18	54		
138+13.00	TO	140+50.00	LT								237	
138+00.00			RT								55	
138+00.00			LT								44	
139+59.26			RT									1
TOTAL				0.42	38	38	38	2033	42	138	336	1

ENTRANCES

LOCATION	SIDE	AGGREGATE SURFACE COURSE, TYPE B
STATION	LT/RT	(TON)
139+32	RT	63

DATE	BY	SURVEYED	PLOTTED	CHECKED	FILE NAME
PLAN	NO.	NOTE BOOK			

DATE	BY	SURVEYED	PLOTTED	CHECKED	NOT AT THIS OFFICE
PROFILE	NO.	NOTE BOOK			

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		CHECKED - JA	REVISED -
		DATE - 9/30/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES OF QUANTITIES
SHEET 2 OF 2**

SCALE: SHEET _ OF _ SHEETS STA. ++++ TO STA. ++++

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	120BR-1	IROQUOIS	30	10
			CONTRACT NO. 66C36	
ILLINOIS FED. AID PROJECT				

BENCHMARK 0141

CHISELED SQUARE IN SOUTHEAST CORNER OF SOUTHEAST WINGWALL,
STA 138+07.83, ELEV. = 632.360

BENCHMARK #2

RAILROAD SPIKE IN POWER POLE SOUTHSIDE STA. 138+56.45, ELEV. = 630.413

BENCHMARK #3

RAILROAD SPIKE IN POWER POLE SOUTHSIDE ±STA. 144+00 RT, ELEV. = 634.07

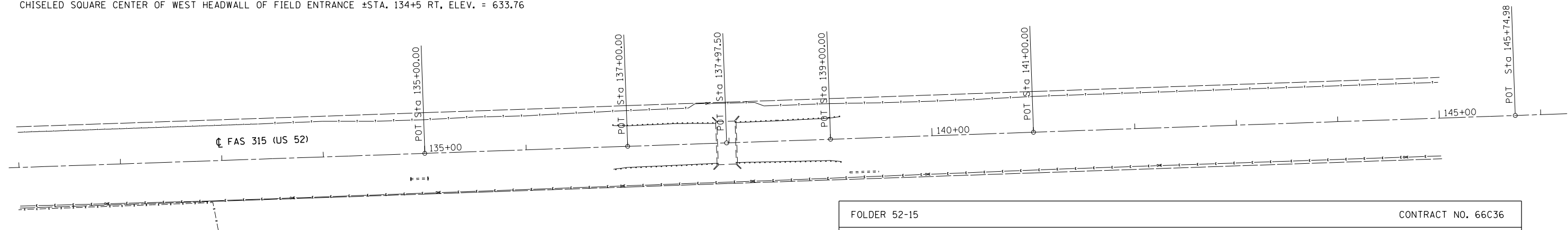
BENCHMARK #4

CHISELED SQUARE CENTER OF WEST HEADWALL OF FIELD ENTRANCE ±STA. 134+5 RT, ELEV. = 633.76

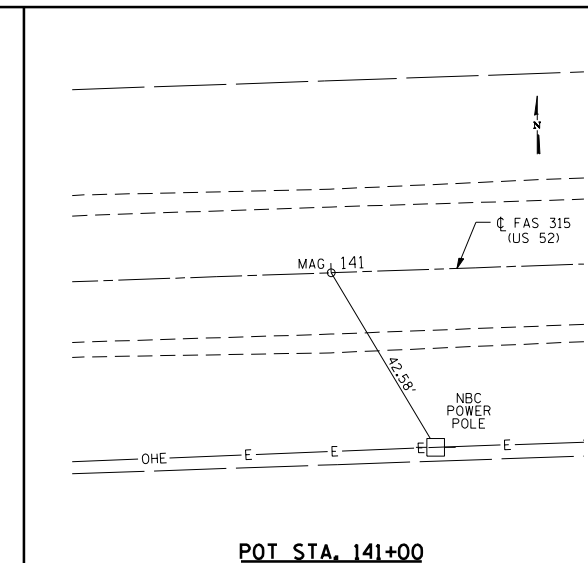
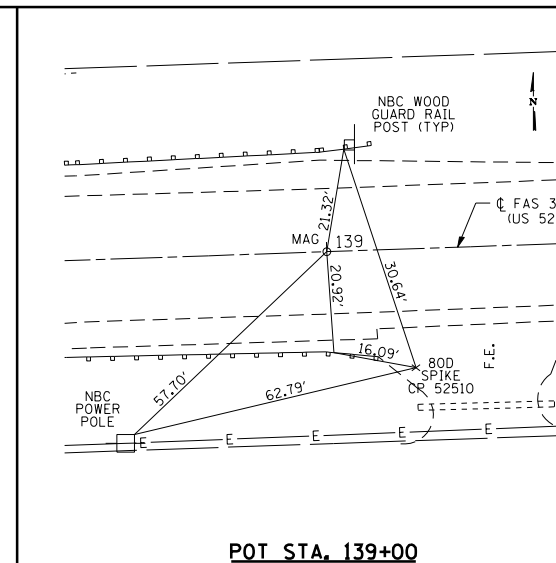
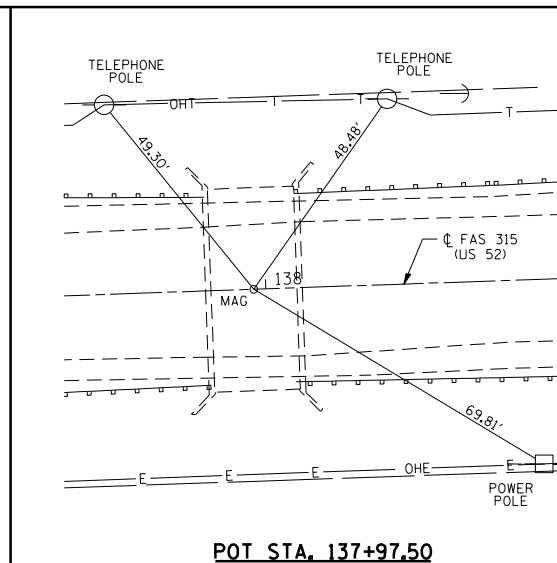
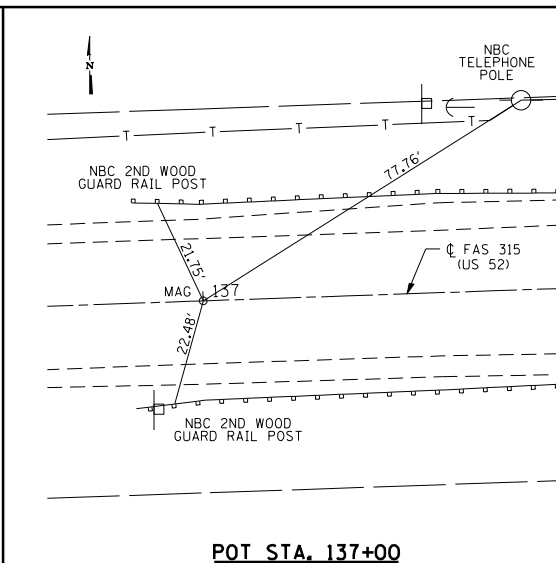
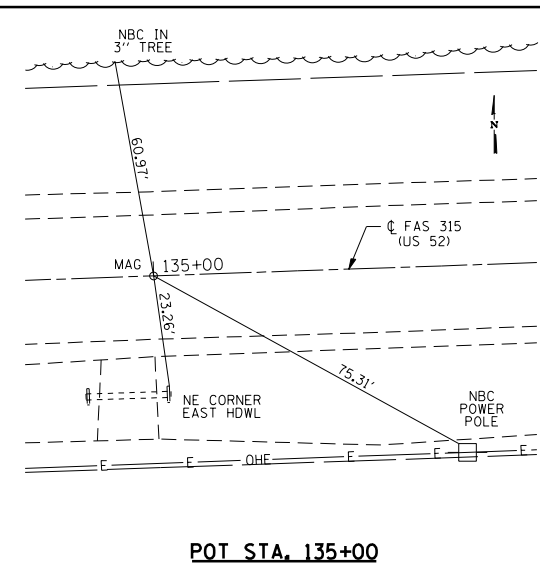


PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	GRADES CHECKED	BY
	STRUCTURE NOTATIONS CHECKED	



FOLDER 52-15		CONTRACT NO. 66C36			
IL ROUTE 52 OVER MARTINTON DITCH, 2.6 MILES E. OF IL RTE. 1		IROQUOIS COUNTY			
INDEX NUMBER	DESCRIPTION	EXISTING MONUMENT TYPE	PROPOSED MONUMENT TYPE	MONUMENT RECORD TO BE RECORDED	RESPONSIBILITY
	NORTH QTR CORNER OF SECTION 26, T28N, R12W, OF THE 2ND P.M.	1/2" ROD	TYPE 1	YES	1
<p>LISTED MONUMENT LOCATIONS HAVE BEEN RECORDED BY GPS. PRE-CONSTRUCTION TIES BY THE R.E. ARE NOT REQUIRED. IF AN UNLISTED MONUMENT IS FOUND, IT MUST BE TIED BY THE R.E. AND BROUGHT TO THE ATTENTION OF THE PLATS AND PLANS MANAGER. AFTER RESURFACING, THE R.E. IS TO CONTACT THE PLATS AND PLANS MANAGER TO ESTABLISH LOCATIONS FOR PERMANENT SURVEY MARKER CORING.</p> <p>RESPONSIBILITY:</p> <ol style="list-style-type: none"> 1. RESIDENT TO RE-ESTABLISH MONUMENT (PAY ITEM REQUIRED. PERMANENT SURVEY MARKER, TYPE 1) 2. PLATS AND PLANS TO RE-ESTABLISH MONUMENT 					



FILE NAME = G:\P101101B\W08 66C36 D3 CULVERT\00Sheet	USER NAME = rmemucod	DESIGNED - TC	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS

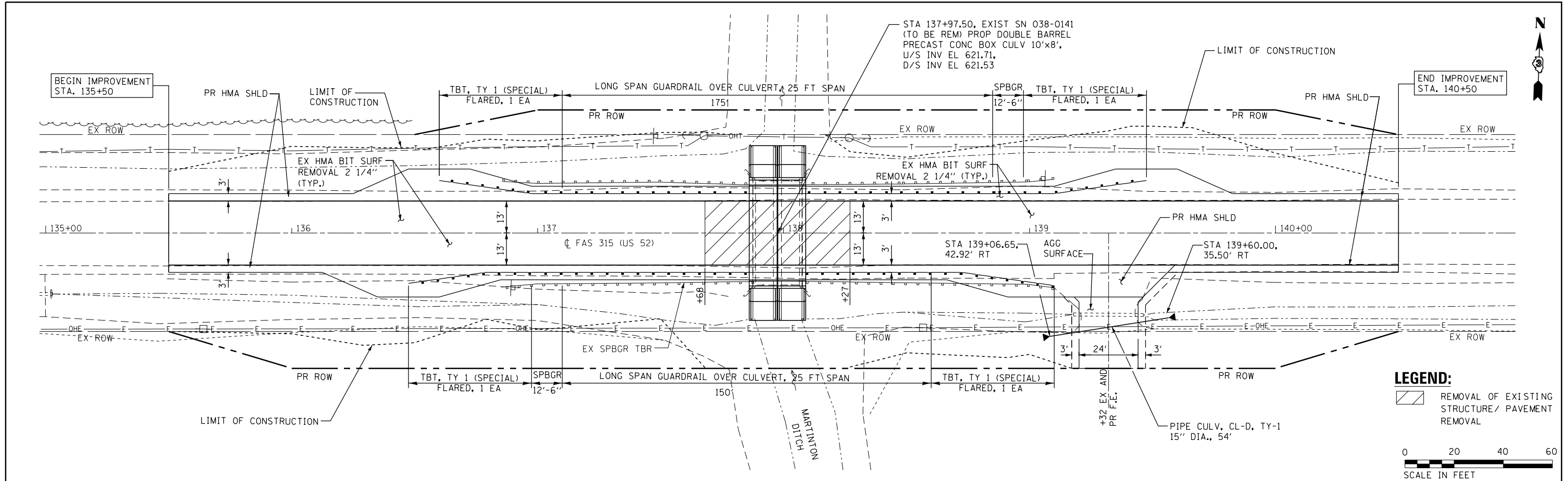
SHEET - OF - SHEETS STA. ...+... TO STA. ...+...

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	120BR-1	IROQUOIS	30	11
CONTRACT NO. 66C36				

ILLINOIS FED. AID PROJECT

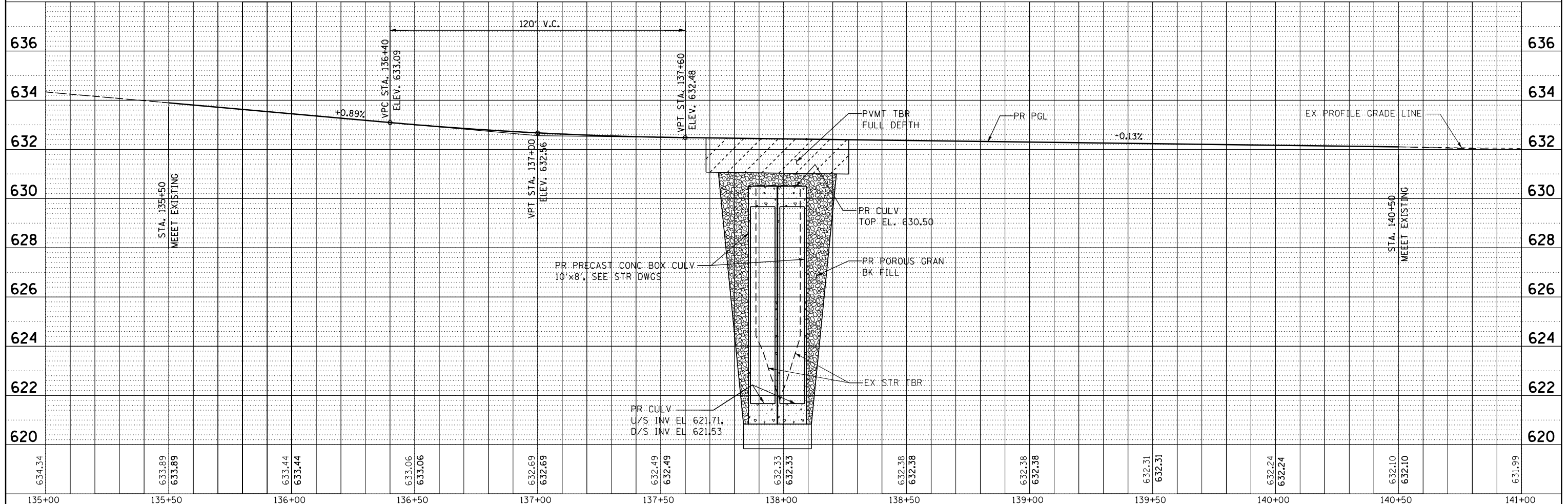
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	ALIGNED	NO.
	CHECKED	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	NO.
	STRUCTURE NOTATIONS OK'D	



LEGEND:
 [Hatched Box] REMOVAL OF EXISTING STRUCTURE/ PAVEMENT REMOVAL

0 20 40 60
 SCALE IN FEET



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


STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	120BR-1	IROQUOIS	30	12
				CONTRACT NO. 66C36
ILLINOIS FED. AID PROJECT				

SHEET - OF - SHEETS STA. +--- TO STA. +---

LEGEND

-  TYPE III BARRICADES CONFORMING TO STD. 701901
-  SIGNS ON PERMANENT SUPPORTS
-  DETOUR ROUTE

NOTES:

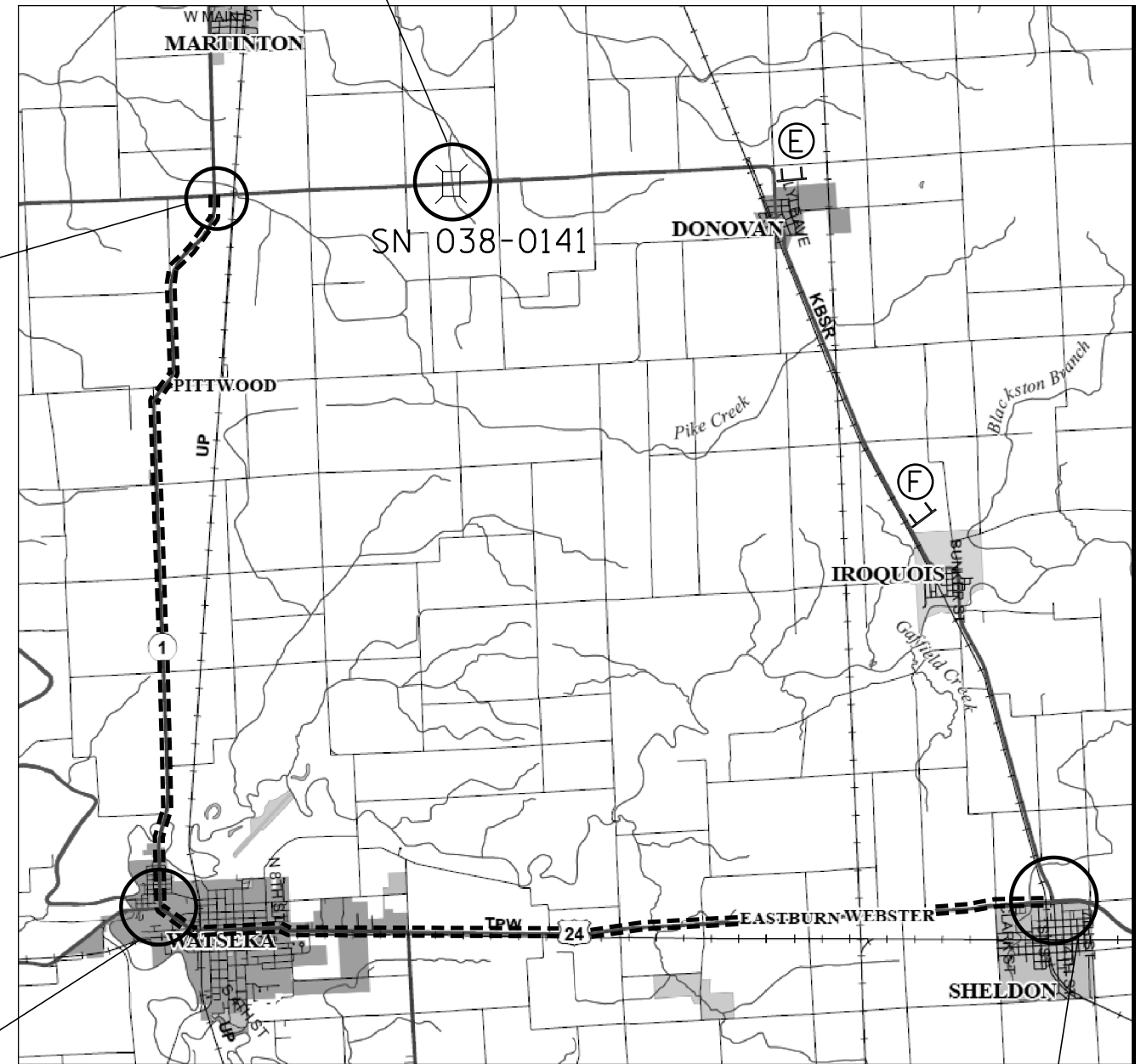
1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
2. ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED, UNLESS OTHERWISE NOTED.
3. LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
4. SIGNS B,C,J,K,L,M,N,P,R AND S SHALL BE BLACK LETTERS ON FLUORESCENT ORANGE SIGN.
5. SEE STANDARDS BLR21 FOR ROAD CLOSURE DETAILS AT THE STRUCTURE.
6. CONFIRMATION DETOUR SIGNS SHALL BE INSTALLED ADJACENT TO EXISTING ROUTE MARKER SIGNS.
7. COVER OR REMOVE ANY EXISTING CONFLICTING SIGNS. (NOTE: NO DRILLING OR TAPE WILL BE ALLOWED ON THE SIGN FACE.)






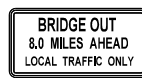








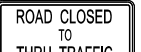

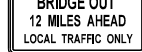


DETAIL D

DETAIL A

DETAIL B

DETAIL C



 R11-2-4830 (A)	 W20-3-4848 (B)	 W20-3-4848 (C)	 R11-3b-6030 (D)	 R11-3b-6030 (E)	 R11-3b-6030 (F)
 M1-4.2-2424 (G)	 M3-4-2412 (H)	 M3-2-2412 (I)	 M4-8-2412 (J)	 M6-1-2115 (K)	 M5-1-2115 (L)
 W20-2a-4848 (M)	 M4-8A-2418 (N)	 R11-4-6030 (O)	 M6-3-2115 (P)	 R11-3b-6030 (Q)	 M6-1-2115 (R)
 M5-1-2115 (S)					

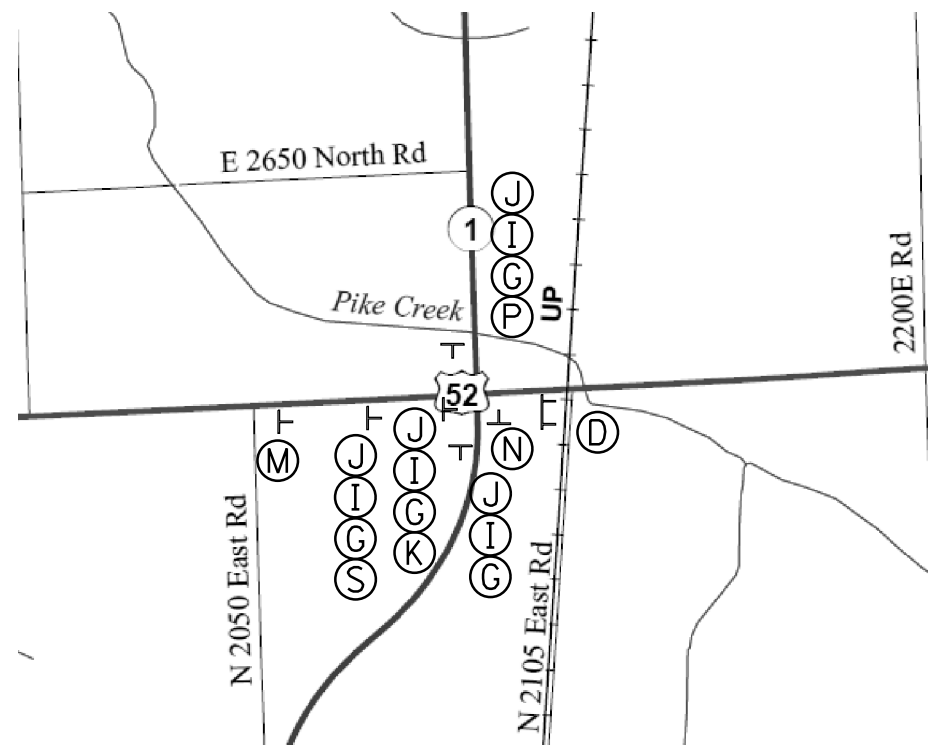
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

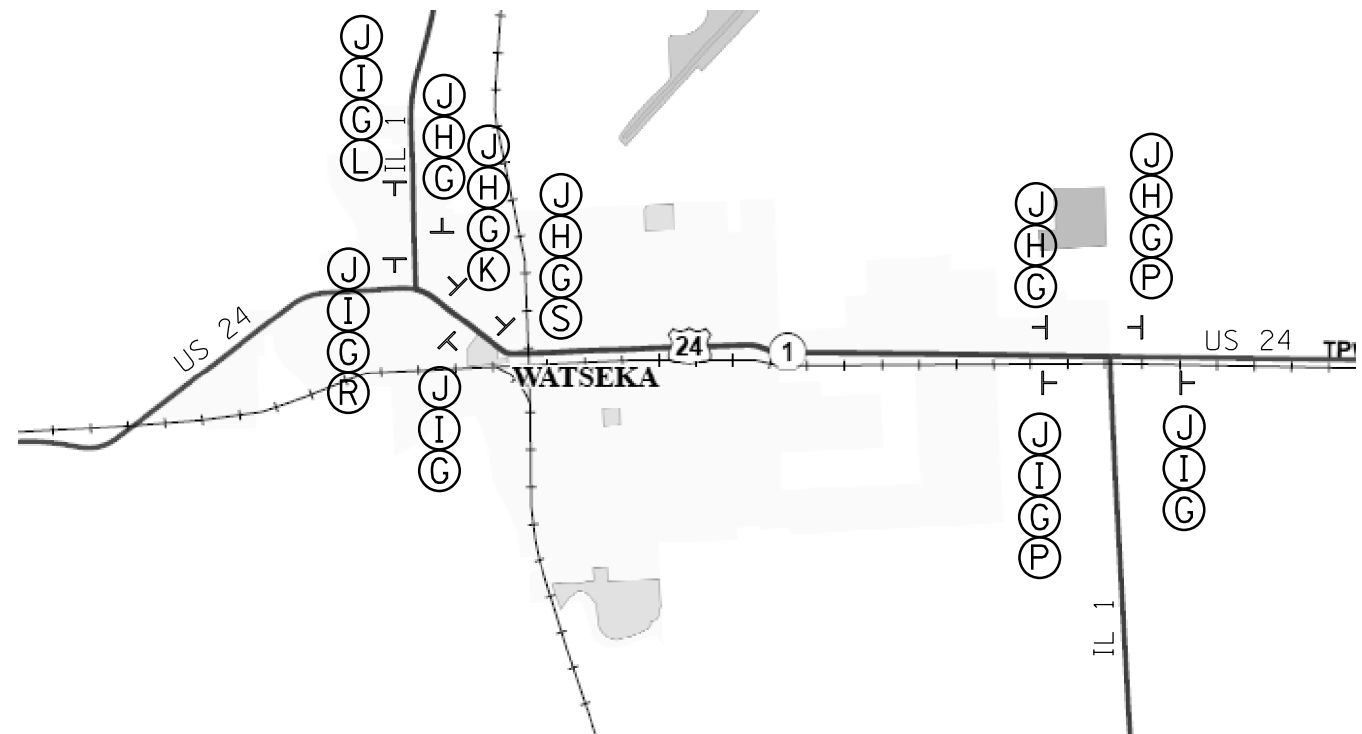
DETOUR PLANS

SCALE: SHEET OF SHEETS STA. TO STA.

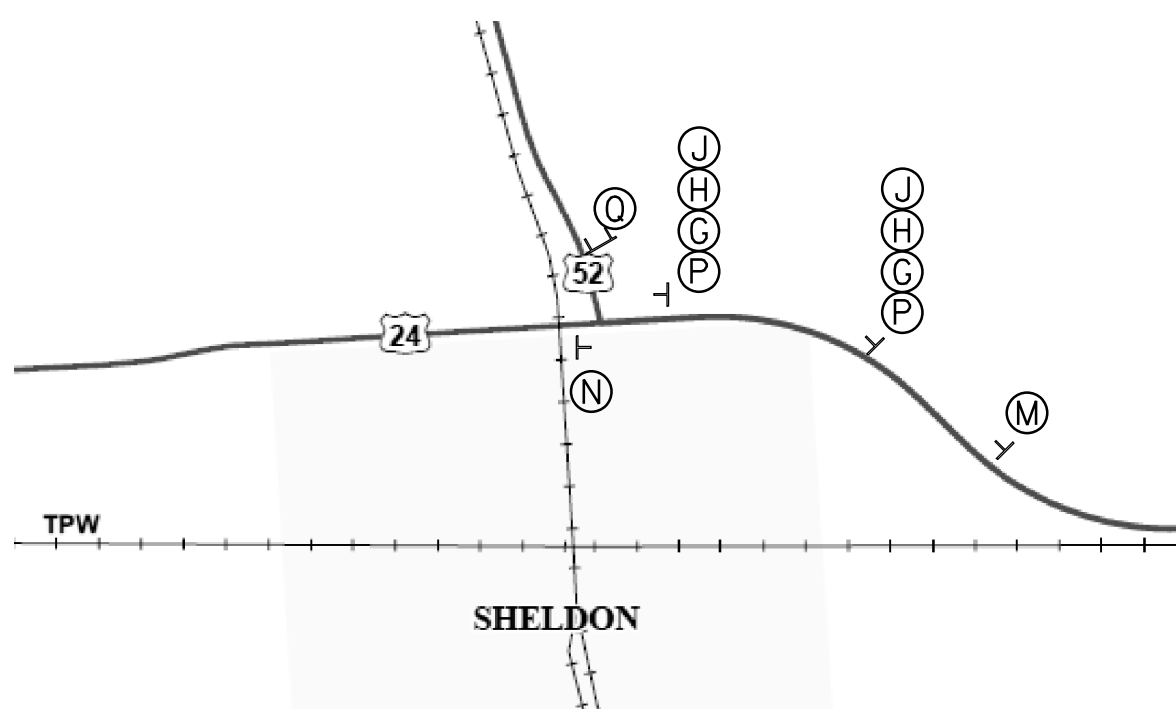
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	120 BR-1	IROQUOIS	30	13
CONTRACT NO. 66C36				
ILLINOIS FED. AID PROJECT				



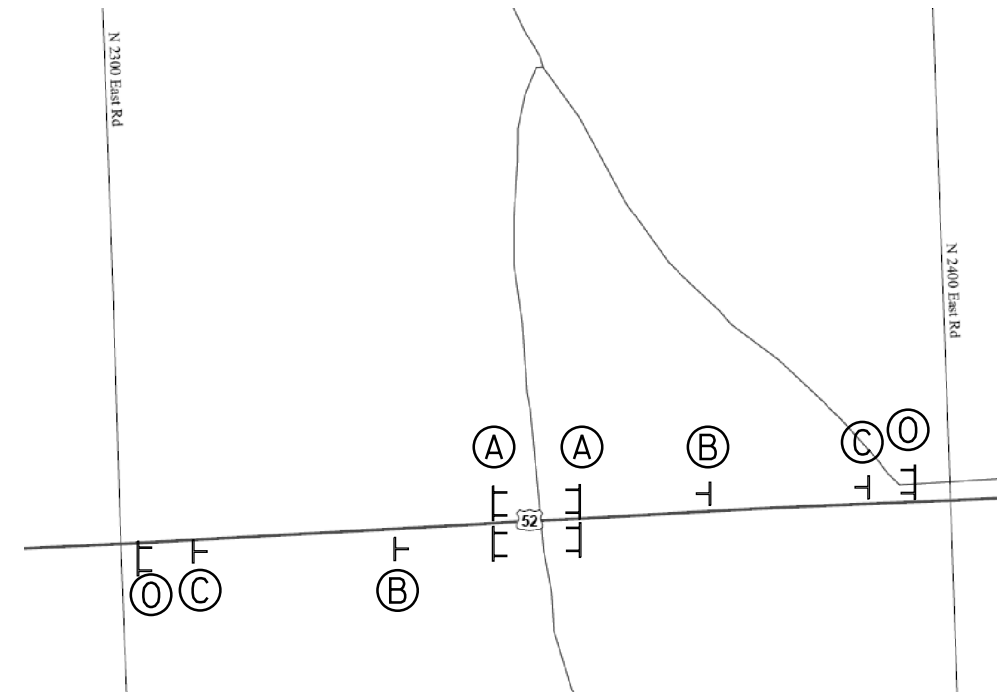
DETAIL A
INTERSECTION OF 52 AND 1



DETAIL B
INTERSECTION OF 1 AND 24



DETAIL C
INTERSECTION OF 24 AND 52



DETAIL D
AT SN 038-0141

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETOUR PLANS

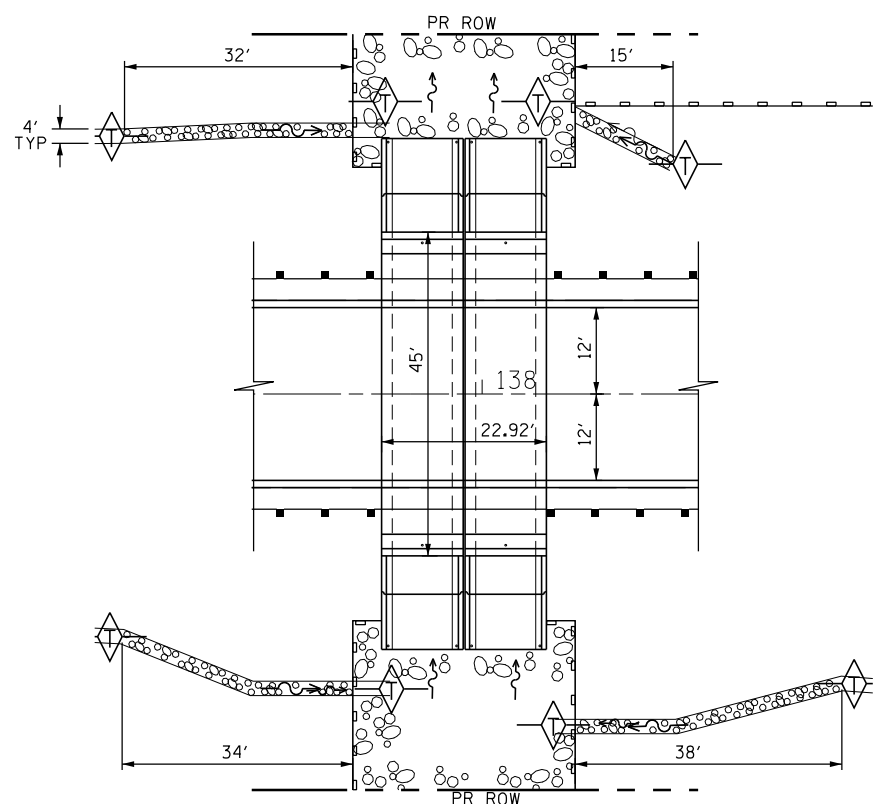
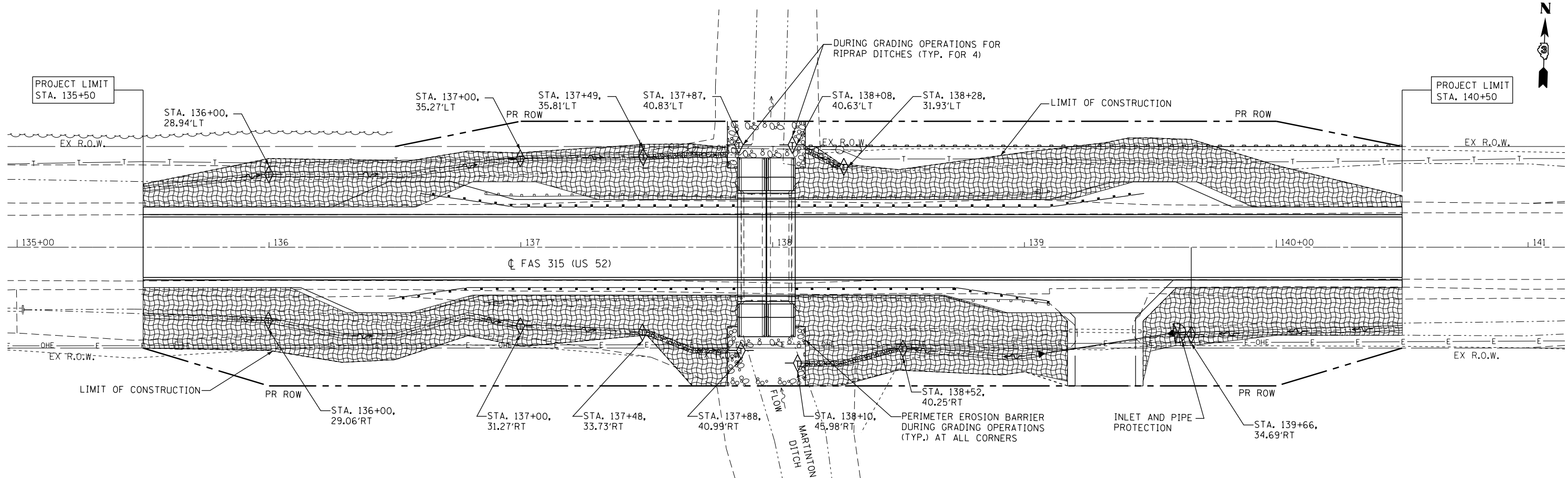
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	120 BR-1	IROQUOIS	30	14
CONTRACT NO. 66C36			ILLINOIS FED. AID PROJECT	



DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
FILE NAME	
NO.	

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE	
NOTATIONS CHECKED	
NO.	



RIPRAP LAYOUT PLAN
N.T.S.

LEGEND:

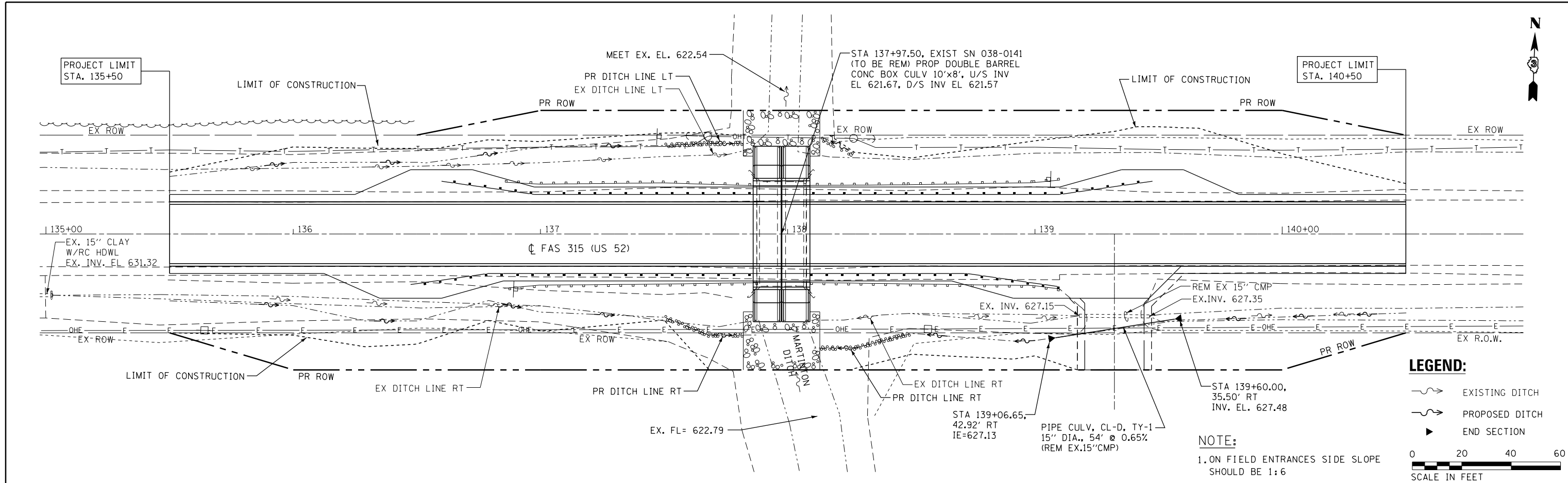
	PROPOSED DITCH
	END SECTION
	TEMPORARY DITCH CHECK
	STONE RIPRAP, CLASS A4
	EROSION CONTROL BLANKET AND PERMANENT SEEDING CLASS 3 (TEMPORARY EROSION CONTROL SEEDING AS NEEDED)
	INLET AND PIPE PROTECTION
	PERIMETER EROSION BARRIER



FILE NAME =	USER NAME = rmemucod	DESIGNED - TC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL PLAN			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
G:\P101101B W08 66C36 D3 CULVERT\00Sheet	Files\15_0366C36-shr-eropl.dgn	DRAWN - RM	REVISED -					315	120BR-1	IROQUOIS	30	15
	PLOT SCALE = 40.0000' / in.	CHECKED - JA	REVISED -					CONTRACT NO. 66C36				
	PLOT DATE = 10/8/2014	DATE - 10/8/2014	REVISED -					ILLINOIS FED. AID PROJECT				
					SHEET _ OF _ SHEETS			STA. ...+... TO STA. ...+...				



PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	CHECKED
	NOTE BOOK	NO.
	FILE NAME	



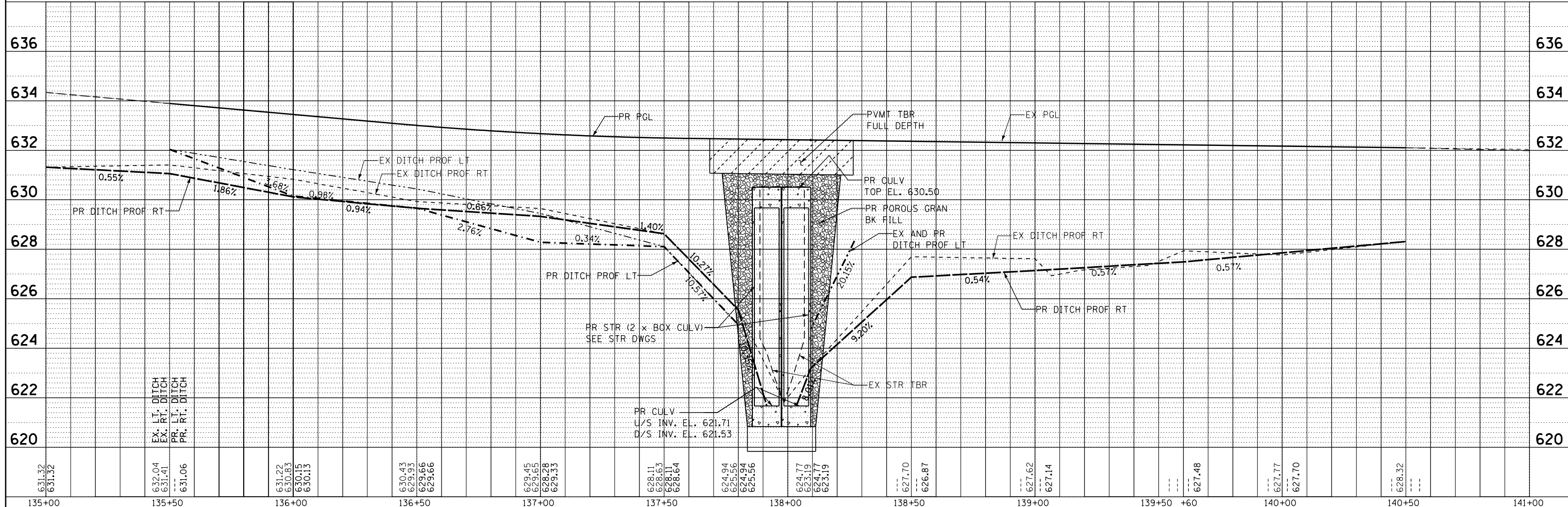
LEGEND:

- EXISTING DITCH
- PROPOSED DITCH
- END SECTION

NOTE:
1. ON FIELD ENTRANCES SIDE SLOPE SHOULD BE 1:6

0 20 40 60
SCALE IN FEET

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE	NOT AT THIS OFFICE
	NO.	



FILE NAME =	USER NAME = rmanuod	DESIGNED - TC	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE

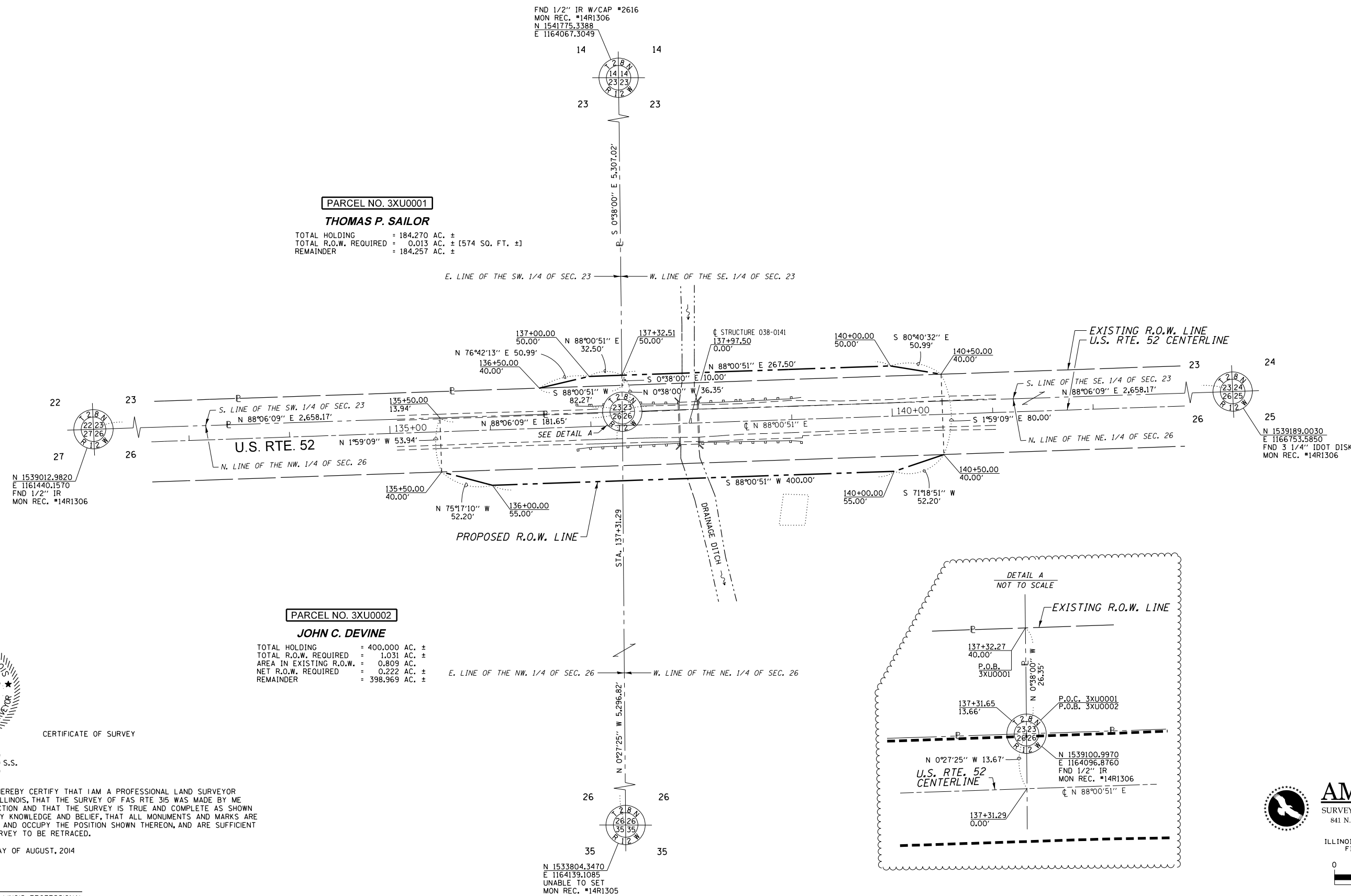
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	120BR-1	IROQUOIS	30	16
			CONTRACT NO. 66C36	

SHEET - OF - SHEETS STA. ---+--- TO STA. ---+---

ILLINOIS FED. AID PROJECT

SW. 1/4 OF SEC. 23, T. 28 N., R. 12 W. OF THE 2ND P.M.

SE. 1/4 OF SEC. 23, T. 28 N., R. 12 W. OF THE 2ND P.M.



PARCEL NO. 3XU0001

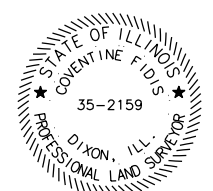
THOMAS P. SAILOR

TOTAL HOLDING = 184.270 AC. ±
 TOTAL R.O.W. REQUIRED = 0.013 AC. ± [574 SQ. FT. ±]
 REMAINDER = 184.257 AC. ±

PARCEL NO. 3XU0002

JOHN C. DEVINE

TOTAL HOLDING = 400.000 AC. ±
 TOTAL R.O.W. REQUIRED = 1.031 AC. ±
 AREA IN EXISTING R.O.W. = 0.809 AC. ±
 NET R.O.W. REQUIRED = 0.222 AC. ±
 REMAINDER = 398.969 AC. ±



CERTIFICATE OF SURVEY

STATE OF ILLINOIS)
) S.S.
 COUNTY OF LEE)

I, COVENTINE FIDIS, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF FAS RTE 315 WAS MADE BY ME OR UNDER MY DIRECTION AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATED THIS 12TH DAY OF AUGUST, 2014

COVENTINE FIDIS - ILLINOIS PROFESSIONAL LAND SURVEYOR NUMBER 35-2159 MY LICENSE EXPIRES 11/30/14

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

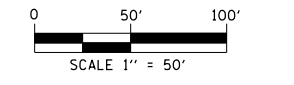
NW. 1/4 OF SEC. 26, T. 28 N., R. 12 W. OF THE 2ND P.M.

NE. 1/4 OF SEC. 26, T. 28 N., R. 12 W. OF THE 2ND P.M.



AMERICAN
 SURVEYING & ENGINEERING, P.C.
 841 N. Galena Ave. Dixon, IL 61021
 815-288-6231

ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-003192



NOTE: GRID DISTANCES AND BEARINGS SHOWN HEREON ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE (NAD 83)
 ALL AREAS BASED ON GROUND DISTANCES
 GRID TO GROUND FACTOR = 1.000002953

ASE JOB NO. 210007.4

FILE NAME	USER NAME	DESIGNED - GB	REVISED -
FILES		DRAWN - CH	REVISED -
	PLOT SCALE = 1" = 50'	CHECKED - PS	REVISED -
	PLOT DATE = 9/17/2014	DATE - 4/10/2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS

PROJECT	JOB NO. R-93-007-14
SCALE: 1" = 50'	SHEET 1 OF 1 SHEETS
STA. 135+00	TO STA. 141+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	120BR-1	IROQUOIS	30	17
U.S. RTE. 52		CONTRACT NO. 66C36		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BENCH MARK #0141:

Chiseled Square in south east corner of south east wingwall, sta. 138+07.83, Elev. 632.36

BENCH MARK #2:

Railroad spike in south side power pole, sta. 138+56.45, Rt. 38.4 ft, Elev. 630.413

EXISTING STRUCTURE:

The existing structure, SN 038-0141 was originally built in 1929 as F.A.S. Rte 315, section 120-B, SBI route 116, over Martinton Ditch number 3, located approximately 2.6 miles east of Illinois Route 1 in Martinton Township, Iroquois County. The existing structure is a single span bridge with closed concrete abutments and flared integral wing walls founded on spread footings and supported by untreated timber piles. The structure is located on a tangent road section with no super elevation or skew. The existing structure has 18'-6" long continuous reinforced concrete slab, and a total length of 20'-0" back to back of abutments. The existing structure width is 39'-2" face to face of steel railing and 42'-2" out to out of concrete and carries 12'-0" wide one lane in each direction. The existing structure will be removed and replaced with a Double Barrel 10'-0" wide X 8'-0" high Precast Reinforced Concrete Box Culvert.

SALVAGE:

No Salvage

HIGHWAY CLASSIFICATION

F.A.S. Rte. 315 (US Rte.52)
Functional Class: Major collector (Non-Urban)
ADT: 1650 (2012), 1820 (2016)
ADTT: 2012: 4% (Single Units); 5% (Multiple Units)
Design Speed: 55 Mph
Posted Speed: 55 Mph

LOADING HL-93

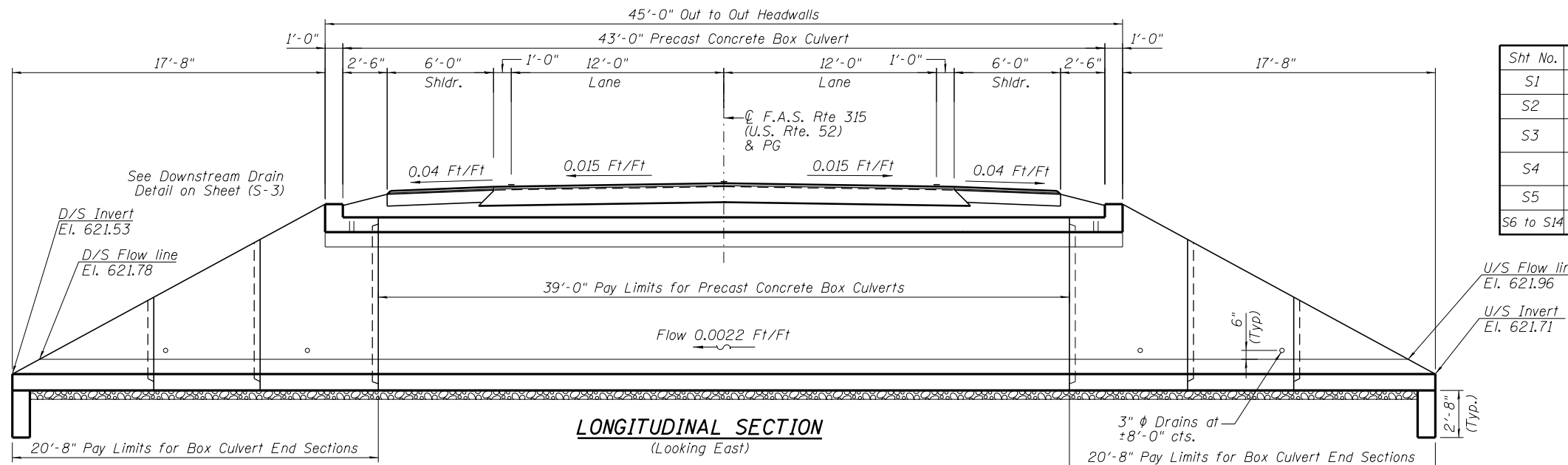
Allow 50 #/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2012 AASHTO Standard Specifications for Highway Bridges, 6th edition with 2013 interims
ASTM C 1577

DESIGN STRESSES

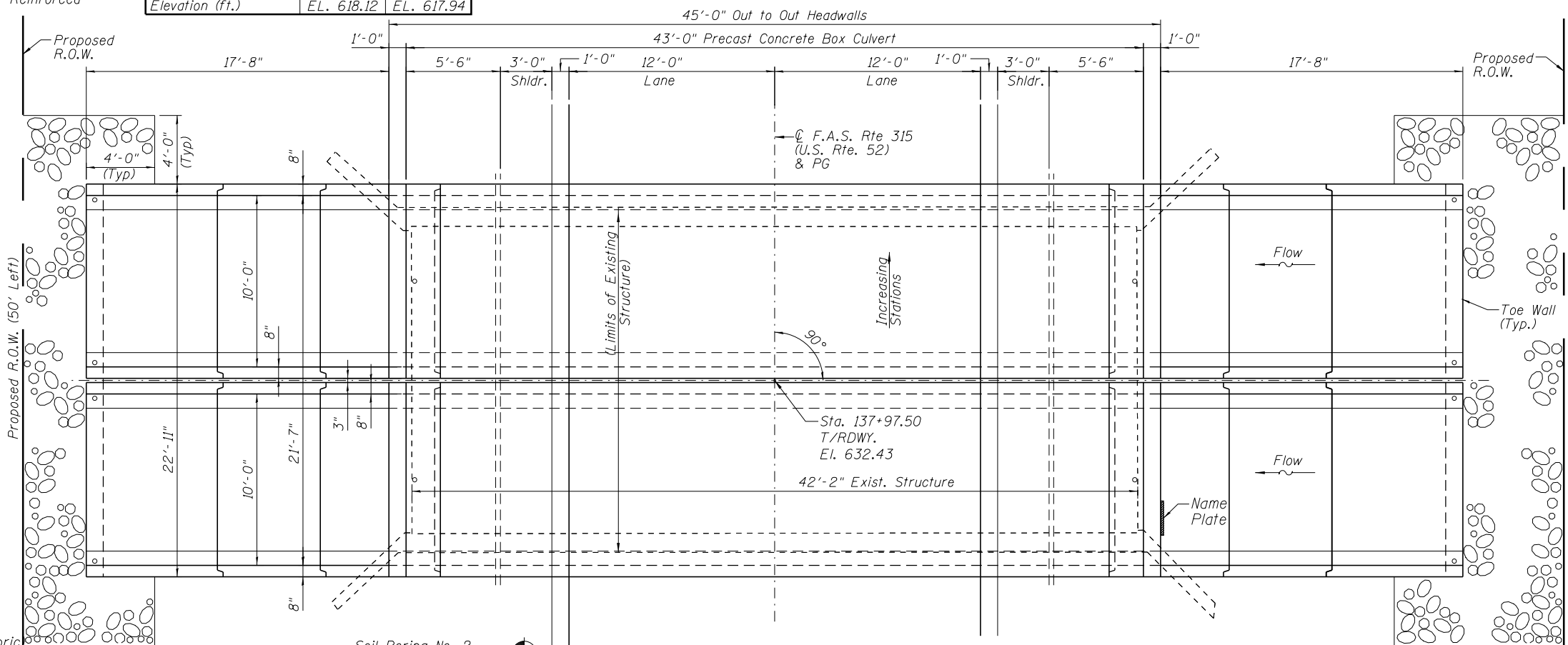
Precast units
f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Fabric)
fy = 60,000 psi (Reinforcement)



DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	U.S.	D.S.
	EL. 618.12	EL. 617.94

Soil Boring No. 1
Sta. 138+25, 16' Rt.



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	421
Porous Granular Backfill	Cu. Yd.	44
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	767
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 1	Each	4
Precast Concrete Box Culverts 10'x8'	Foot	78

PLAN

WATERWAY INFORMATION

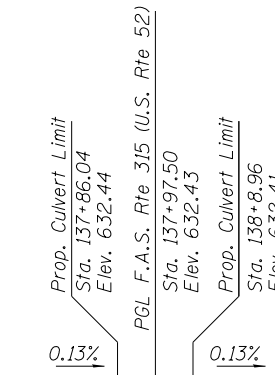
Drainage Area = 0.75 sq. mi.
Exist. Low Grade El.=631.70 @ Sta. 141+00 Prop. Low Grade El.=631.70 @ Sta. 141+00

Flood	Freq. Yr.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.		
		Exist.*	Prop.*		Exist.	Prop.	Exist.	Prop.	
	10	133	72	112	627.3	0.0	0.0	627.3	627.3
Hydraulic Design	50	218	95	138	628.6	0.1	0.0	628.6	628.6
Base	100	257	103	148	629.0	0.1	0.0	629.1	629.0
Scour Design	200	298	108	152	629.3	0.1	0.0	629.4	629.3
Max. Calc.	500	352	112	157	629.5	0.2	0.1	629.7	629.6
Overtopping	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Exist. 10 Year Velocity: 1.8 (ft./sec.) Prop. 10 Year Velocity: 1.2 (ft./sec.)

INDEX OF SHEETS

Sht No.	Description
S1	General Plan and Elevation
S2	Section Thru Precast Barrel
S3	Multiple Cell Precast Box Culvert End Section & Details (Sheet 1 of 2)
S4	Multiple Cell Precast Box Culvert End Section & Details (Sheet 2 of 2)
S5	Soil Boring Logs
S6 to S14	Existing Structural Plans



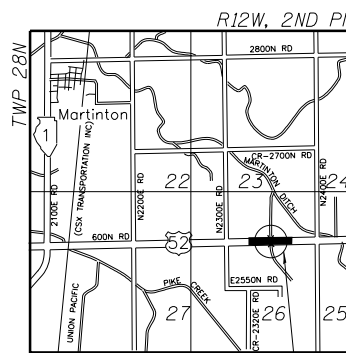
PROFILE GRADE

(Along C.F.A.S. Rte 315) (U.S. Route 52)

STATION 137+97.50
BUILT 201 BY
STATE OF ILLINOIS
F.A.S. RTE 315 SEC. 120BR-1
LOADING HL-93
STR. NO. 038-2028

NAME PLATE

See Std. 515001



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
U.S. ROUTE 52 OVER MARTINTON DITCH NO.3
F.A.S. ROUTE 315 - SECTION 120BR-1
IROQUOIS COUNTY
STATION 137+97.50
SN 038-2028

DESIGNED	NS
CHECKED	SSK
DRAWN	RM
CHECKED	SSK

9-30-2014

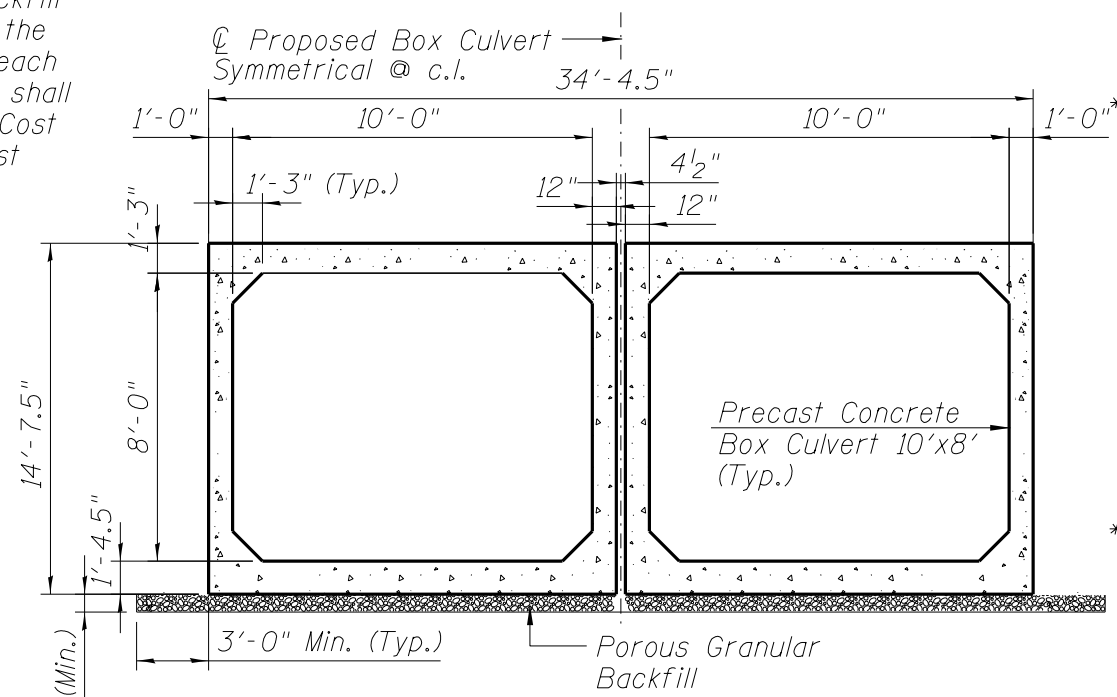
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. S1 OF S8 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	120BR-1	IROQUOIS	30	18
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66C36	

NOTES:

3" nominal space shall be left between adjacent precast sections. After the precast cells are in place and backfill has been placed to mid height of the precast concrete box section on each side, the space between the cells shall be filled with Class SI Concrete. Cost included with pay item for "Precast Concrete Box Culvert 10'x8'.



SECTION THRU PRECAST BARREL

GENERAL NOTES:

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

SECTION THRU PRECAST BARREL
U.S. ROUTE 52 OVER MARTINTON DITCH NO.3
F.A.S. ROUTE 315 - SECTION 120BR-1
IROQUOIS COUNTY
STATION 137+97.50
SN 038-2028

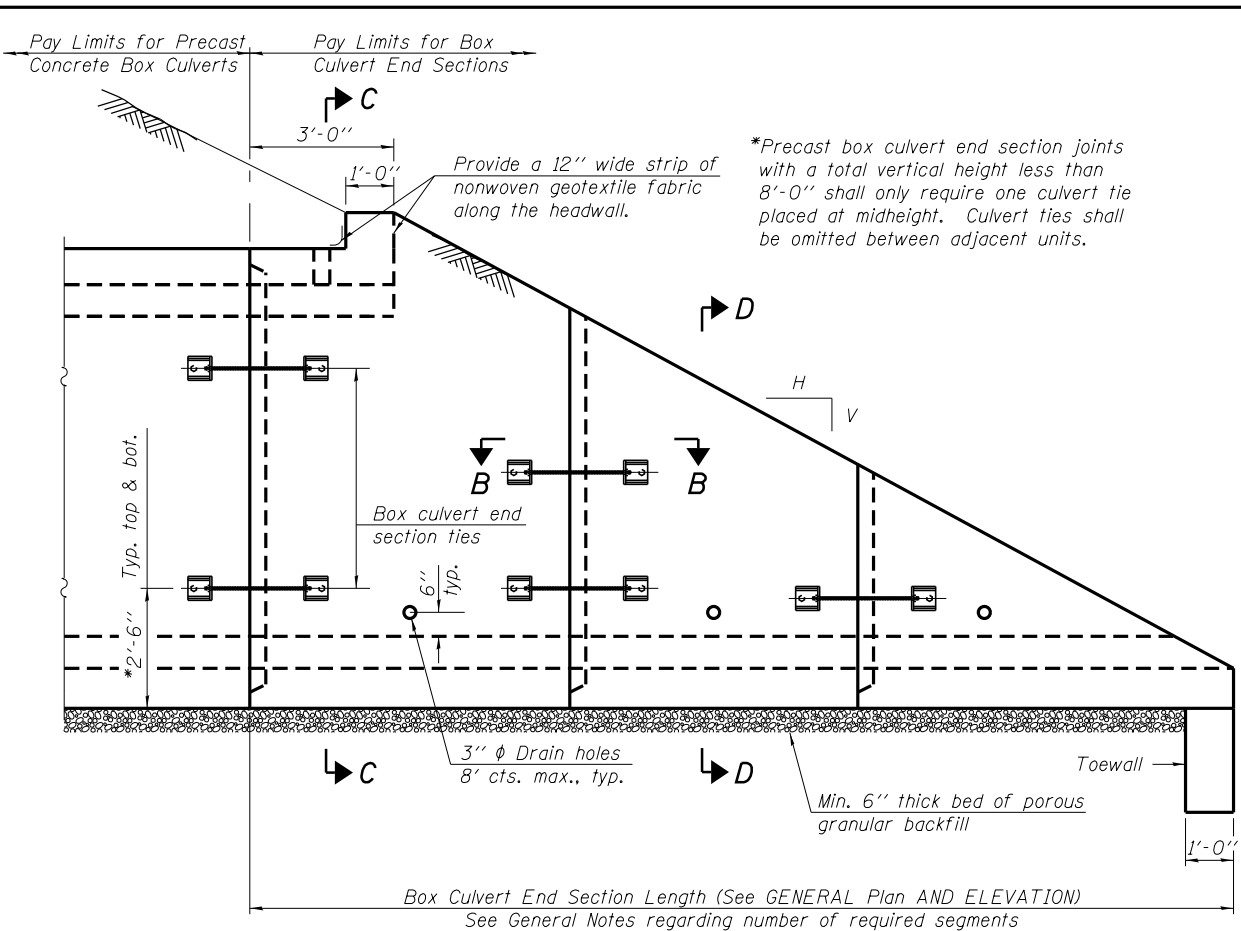
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DRAWN	RM
CHECKED	SSK

9-30-2014

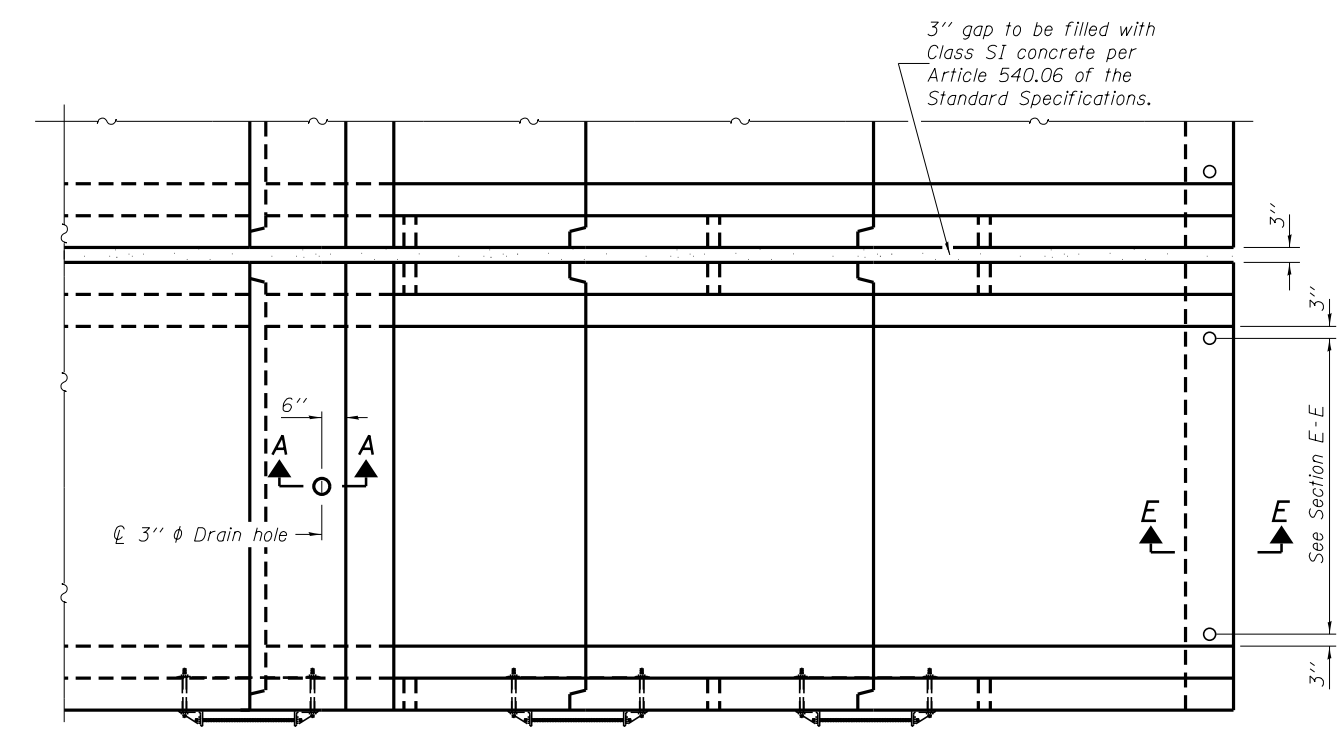
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. S2 OF S8 SHEETS

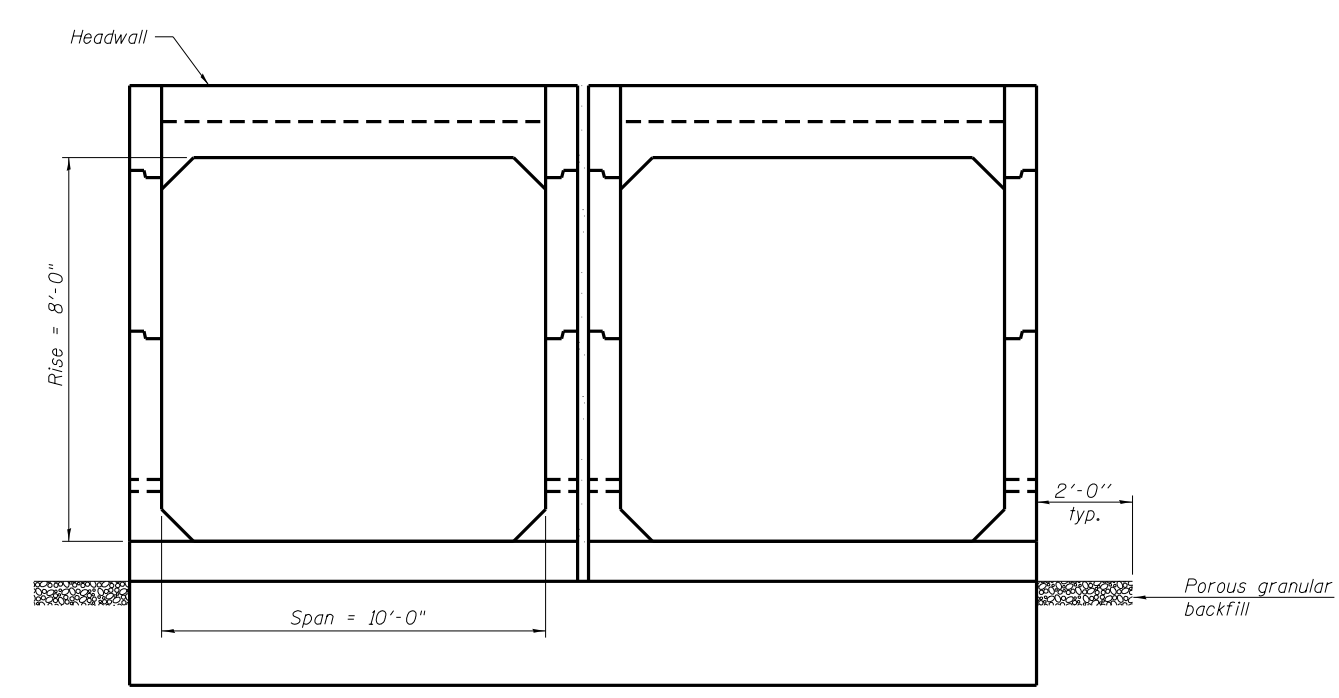
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	120BR-1	IROQUOIS	30	19
CONTRACT NO. 66C36			ILLINOIS FED. AID PROJECT	



SIDE ELEVATION



PLAN VIEW



END VIEW

GENERAL NOTES

The box culvert end section shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. The end section will be paid for at the contract unit price per each for Box Culvert End Sections of the culvert number specified.

Typical box section dimensions, materials, and reinforcement details for the box culvert end section shall be according to the requirements of 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.

Number of segments shown in Side Elevation is for example only. Length and number of precast box sections required to construct the box culvert end section shall be determined by the Contractor.

See roadway plans for embankment slope (V:H). 1" anchor rods for the culvert ties shall conform to the requirements of ASTM F 1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. All anchor rods in a culvert tie assembly shall be snug tightened by a few impacts of an impact wrench or the full force of a worker using an ordinary spud wrench. Holes in the walls for

the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

Alternate culvert ties similar in strength and stiffness to the plan details may be provided by the Contractor. Alternate culvert ties shall be subject to approval of the Engineer.

All costs associated with furnishing and installing or constructing the geotextile fabric, toewall, and culvert ties will not be measured for payment but shall be included in the contract unit price for Box Culvert End Sections of the culvert number specified.

Reinforcement bars designated (E) shall be epoxy coated.

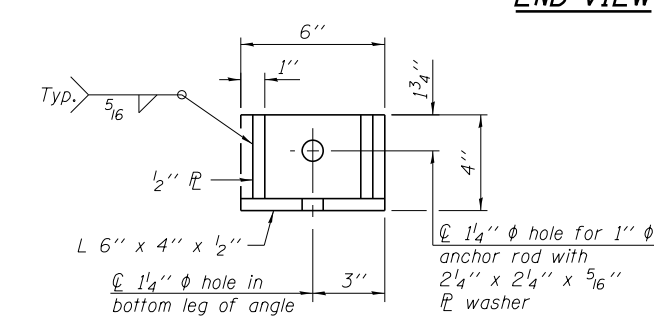
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60.

Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications unless noted otherwise.

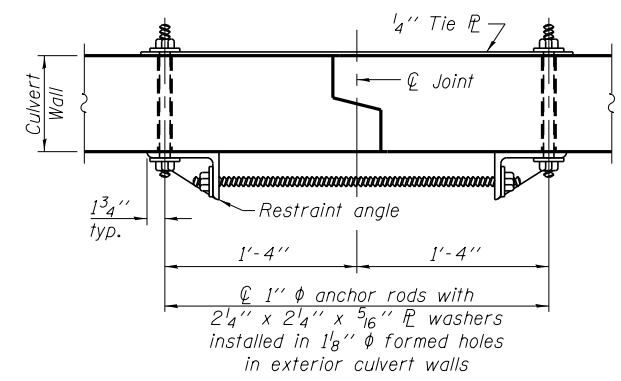
Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01. The minimum weight of the fabric shall be 6 oz. / sq. yd.

For an end section with a traversable steel pipe system, see pipe detail sheet for required modifications.

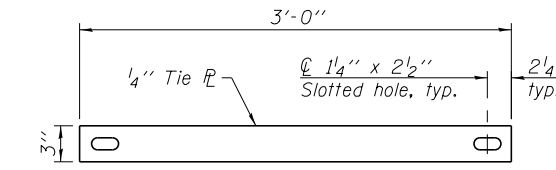
The Construction of End Sections shall start from downstream end.



RESTRAINT ANGLE DETAIL



SECTION B-B
(Showing culvert tie details)



TIE PLATE DETAIL

**MULTIPLE CELL PRECAST BOX CULVERT
END SECTION & DETAILS (SHEET 1 of 2)
U.S. ROUTE 52 OVER MARTINTON DITCH NO.3
F.A.S. ROUTE 315 - SECTION 120BR-1
IROQUOIS COUNTY
STATION 137+97.50
SN 038-2028**

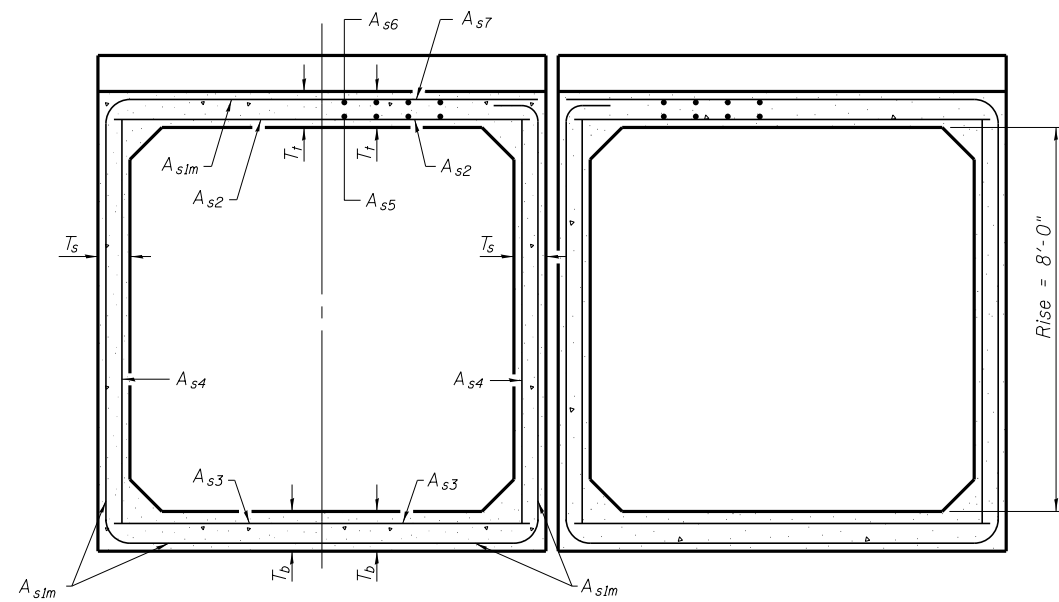
DESIGNED	NS
CHECKED	SSK
DRAWN	RM
CHECKED	SSK

10-8-2014

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHEET NO. 53 OF 58 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	120BR-1	IROQUOIS	30	20
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66C36	



(Design Earth Cover < 2 ft.)

SECTION C-C

T(in.), T _s (in.)	Reinforcing Steel A _{s1m} (in. ² /ft.)										
	2	3	4	5	6	7	8	9	10	11	12
4	0.19	0.17									
5	0.26	0.21	0.18								
6		0.26	0.23	0.22							
7		0.33	0.59	0.27	0.28						
8			0.43	0.39	0.36	0.34	0.40				
9				0.43	0.40	0.37	0.36	0.48			
10				0.47	0.44	0.41	0.38	0.42	0.56		
11			0.54		0.46	0.41	0.41	0.50	0.65		
12			0.58		0.50	0.45		0.46	0.75		

(A_{s1m} reinforcement based upon welded wire fabric conforming to AASHTO M 55 or M 221).

Notes:

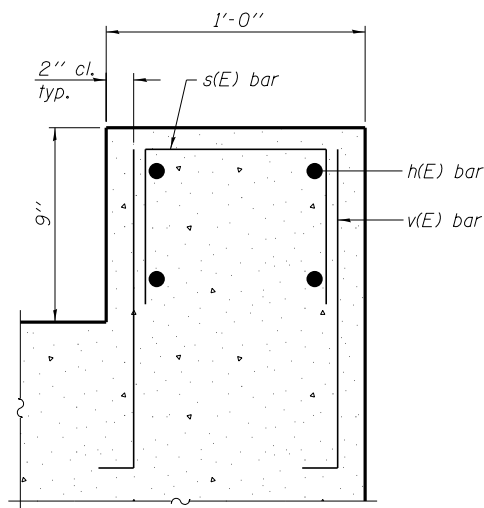
Alternate Section D-D is provided to allow the Contractor the option of casting the bottom slab of the end section first followed by construction of the sidewalls using conventional forming methods. Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval when using Alternate Section D-D.

The size and spacing of the v₂(E) bars shall provide a minimum reinforcement area along each face of the walls (in.²/ft.) equal to 1.10*(A_{s1m}). v₂(E) bars may consist of #3 thru #6 size reinforcement bars and the longitudinal spacing shall not exceed the lesser of the wall thickness or 8 inches.

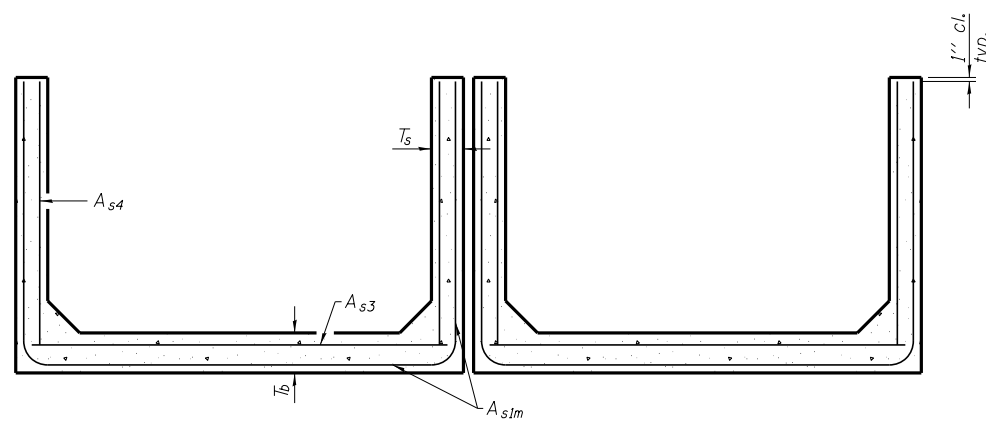
Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.

l₁ DIMENSION

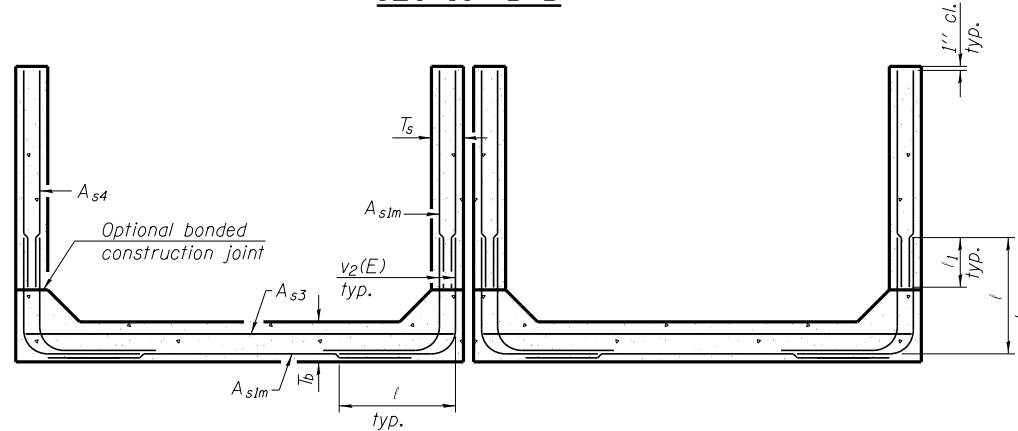
- #3 bar = 2'-0"
- #4 bar = 2'-8"
- #5 bar = 3'-4"
- #6 bar = 3'-11"



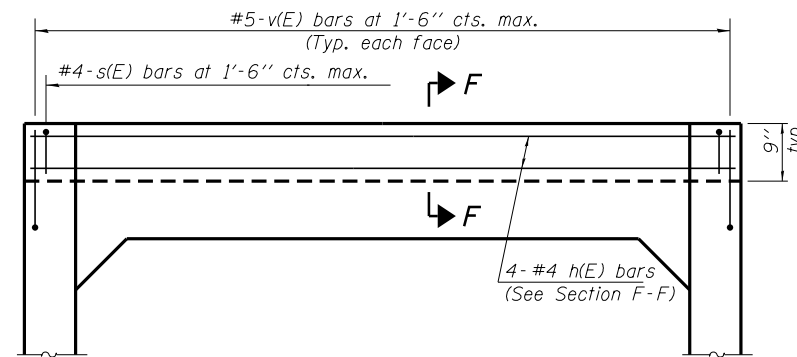
SECTION F-F



SECTION D-D

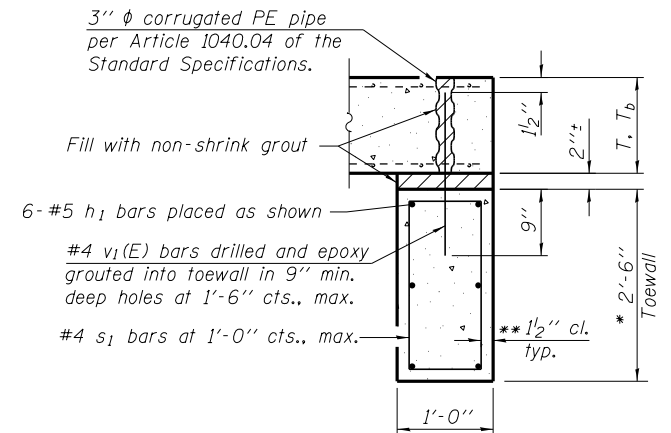
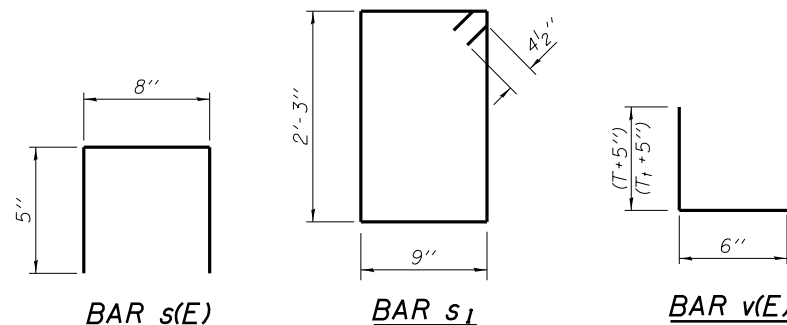


ALTERNATE SECTION D-D



HEADWALL ELEVATION

(Showing details for headwalls cast monolithic with box sections.)
(Allow sidewall reinforcement to extend into end of headwall.)



SECTION E-E

TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

12" x 12" block of CA5, CA7 or CA11 coarse aggregate placed over drain opening. Block of aggregate shall be completely wrapped in nonwoven geotextile fabric.

Provide a double layer of 12" x 12" nonwoven geotextile fabric centered over the drain hole. Fabric shall be sealed to the concrete with mastic.

3" φ PVC drain cast with the concrete (Adjust location to clear reinforcement).

1/2" Square foam blackout around PVC drain (to be removed with formwork)

SECTION A-A

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

**MULTIPLE CELL PRECAST BOX CULVERT
END SECTION & DETAILS (SHEET 2 of 2)
U.S. ROUTE 52 OVER MARTINTON DITCH NO.3**

F.A.S. ROUTE 315 - SECTION 120BR-1

**IROQUOIS COUNTY
STATION 137+97.50
SN 038-2028**

DESIGNED	NS
CHECKED	SSK
DRAWN	RM
CHECKED	SSK

10-8-2014

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

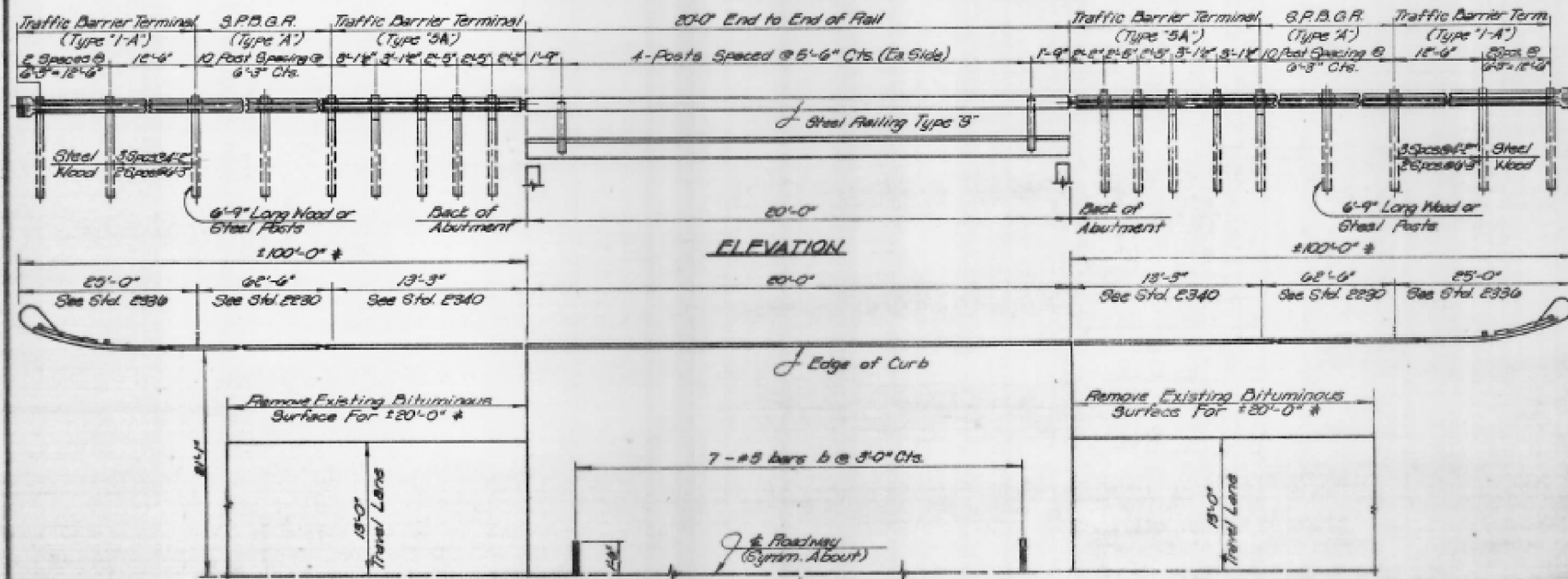
SHEET NO. 54 OF 58 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	120BR-1	IROQUOIS	30	21
CONTRACT NO. 66C36				

ILLINOIS FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

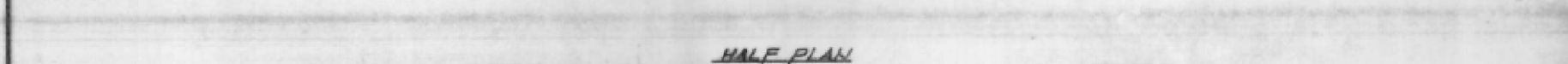
116	12001	Iroquois	24	19
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GENERAL NOTES

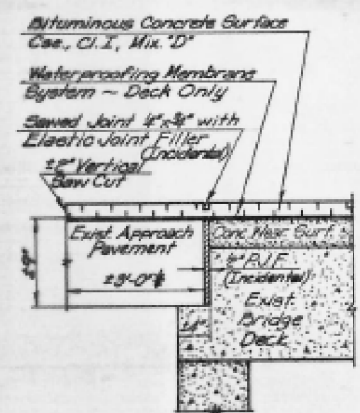
It shall be the responsibility of the Contractor to verify all dimensions existing in the field prior to construction and ordering of materials.

Partial Wingwall Removal may be required to accommodate lower portion of end posts of steel railing and will be considered incidental to Type "S" Steel Railing.



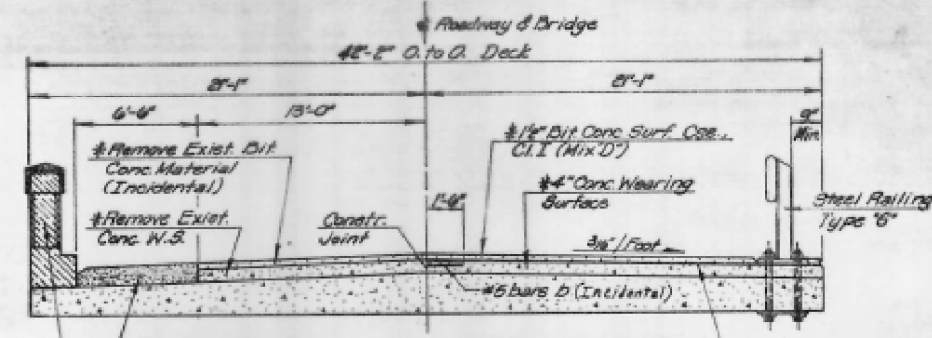
SUMMARY OF BRIDGE QUANTITIES

Code No.	Item	Unit	Quantity
210000	Waterproofing Membrane System	Sq. Yd.	94
406013	Bituminous Conc. Surf. Cse., Mix. D, Class I	Ton	8
501024	Concrete Removal	Cu. Yd.	2
501041	Bridge Handrail Removal	Lin. Ft.	40
506008	Type "S" Steel Railing	Lin. Ft.	40
617016	Bridge Wearing Surface Removal	Sq. Yd.	58
620028	Reinforcement Removal and Portland Cement Concrete Replacement - Type I, 9 Inch	Sq. Yd.	16
710236	Bridge Deck Wearing Surface	Sq. Yd.	94
514001	Name Plate	Each	1



TREATMENT AT ABUTMENT

* Pavement Removal and Portland Cement Concrete Replacement - Type I, 9 inch to be determined by the Engineer in the field.

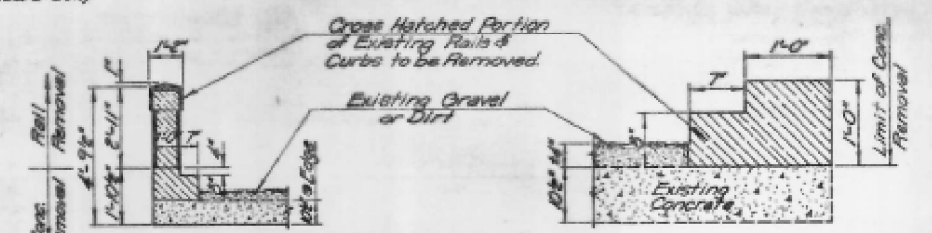


HALF SECTION - EXISTING HALF SECTION - PROPOSED

* Removal & Replacement Shall Be Full Length of Bridge.

Station 138+00
Built 1925 by
State of Illinois
S.B.I. Rt. 116 Sec. 120 BY
Loading H-15
Str. No. 038-0141

NAME PLATE
(See Standard 2311)



EXISTING CONCRETE CURB SECTION

BRIDGE REHABILITATION

S.B.I. Route 116
Section 120 BY
Station 138+00
Iroquois County
Bridge Inv. # 038-0141

See Sheet No. 1 for
Additional Details

DESIGNED	NS
CHECKED	SSK
DRAWN	RM
CHECKED	SSK

10-8-2014

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

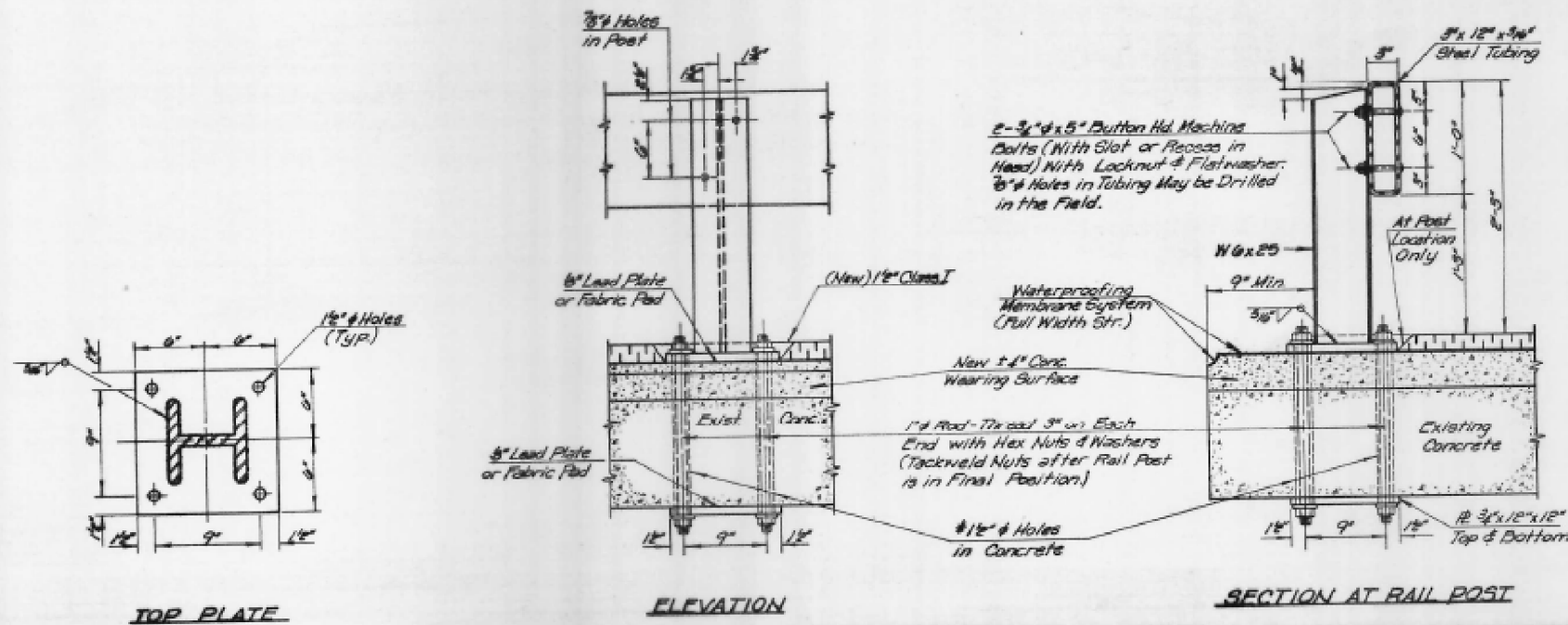
EXISTING STRUCTURAL PLAN
(FOR INFORMATION ONLY)

SHEET NO. 56 OF 58 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	120BR-1	IROQUOIS	30	23
CONTRACT NO. 66C36			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

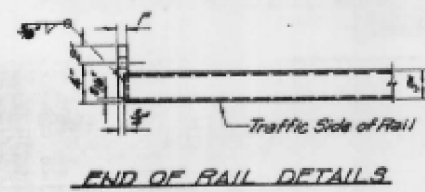
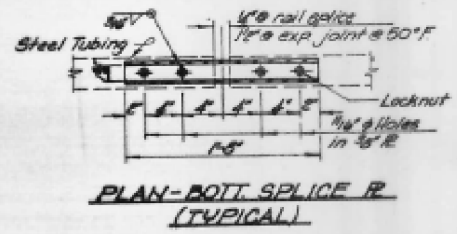
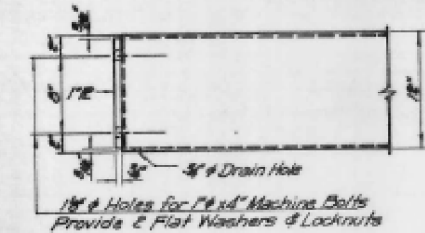
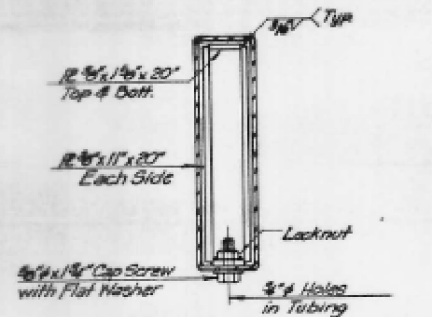
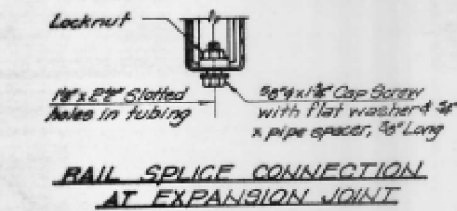
116	120BR	Iroquois	24	20
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GENERAL NOTES

Hollow structural steel tubing shall conform to the requirements of A.S.T.M. designation A-500 grade B or A-501 Structural Steel Tubing.
 All other steel shapes & plates shall conform to the requirements of A.A.S.H.T.O. M-183 except posts & angles shall conform to A.A.S.H.T.O. M-223, Grade 50.
 Bolts, cap screws and nuts shall conform to the requirement of A.S.T.M. designation A-307 except for high strength bolts, nuts and washers noted which shall conform to A.A.S.H.T.O. M-164.
 All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with A.A.S.H.T.O. M-232.
 All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with A.A.S.H.T.O. M-111 and A.S.T.M. A-365 Galvanized rail shall not be painted.
 Railing shall be in accordance with Section 208 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per Linear Foot for Steel Railing, Type 'S'.
 All field drilled holes shall be coated with an approved zinc rich paint before erection.

* Note: Grout 1/2" holes to fill void when 1" rods are placed. (Cost Incidental)



TYPE 'S' STEEL RAILING

SB1 Route 116
Section 120 B4
Station 138+00
Iroquois County

Bridge Inventory No. 038-0141

3-14-73 Revised General Notes. ENR

DESIGNED	NS
CHECKED	SSK
DRAWN	RM
CHECKED	SSK

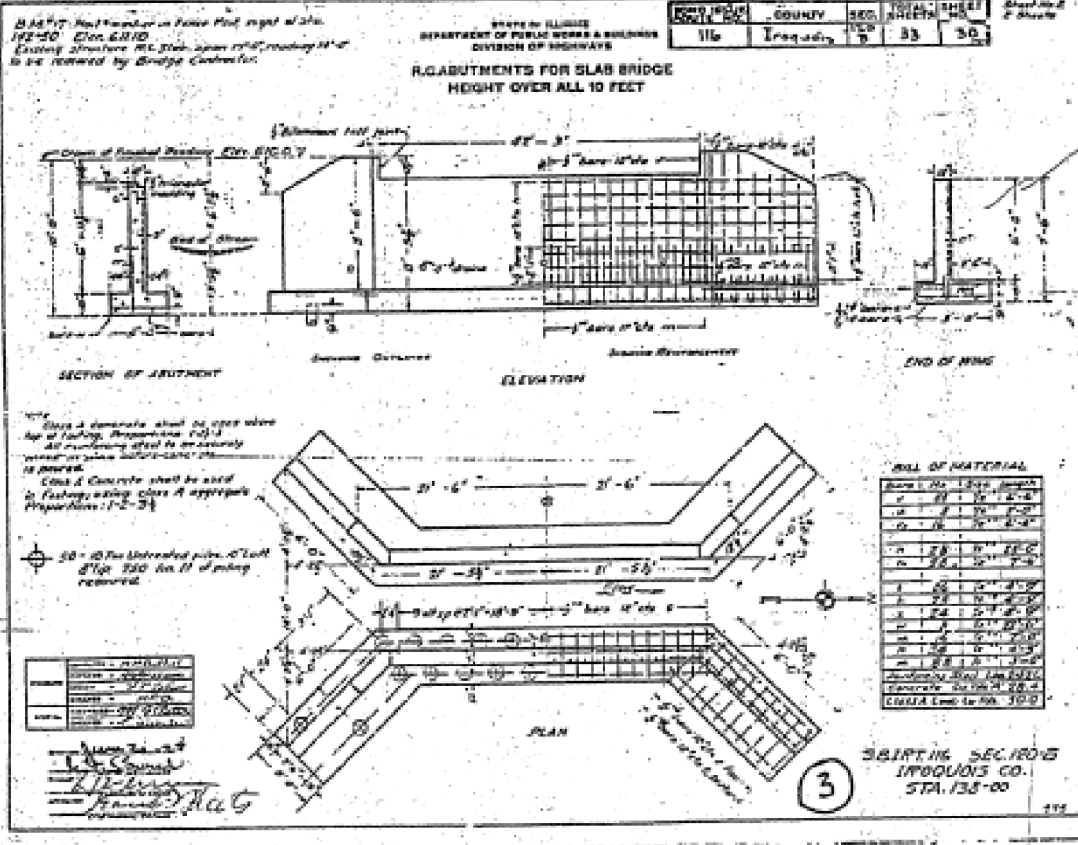
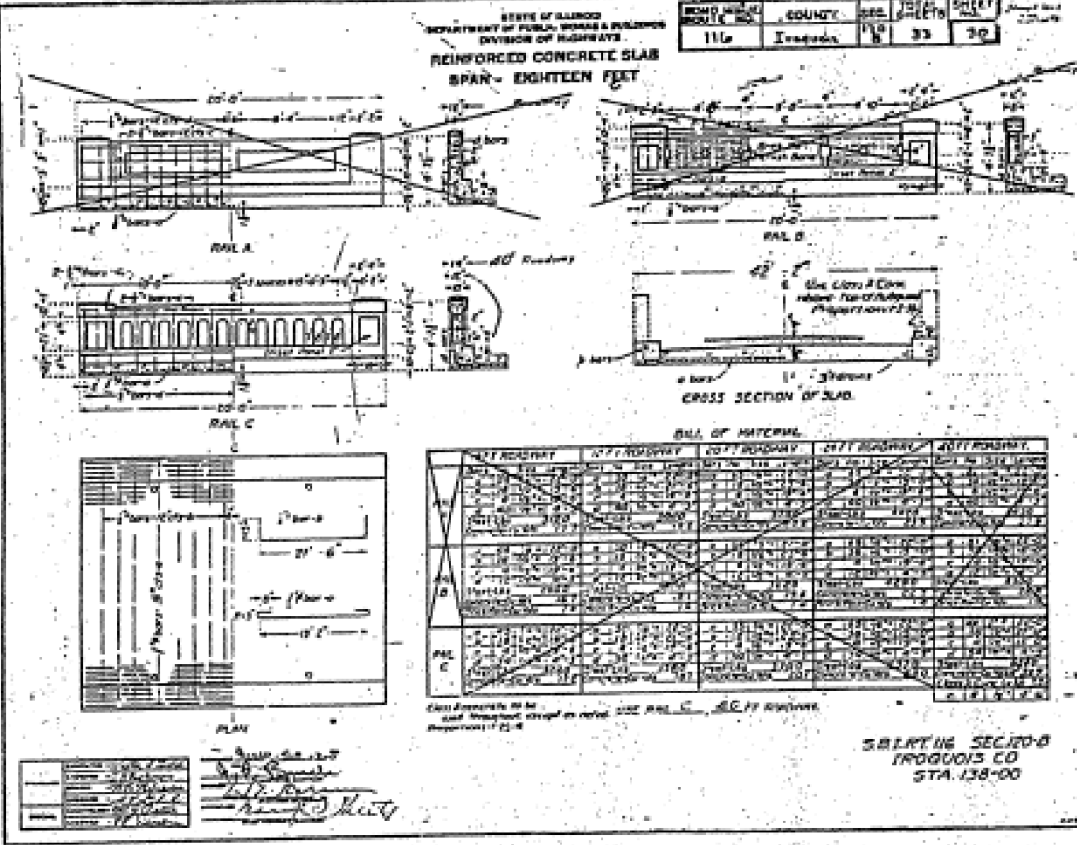
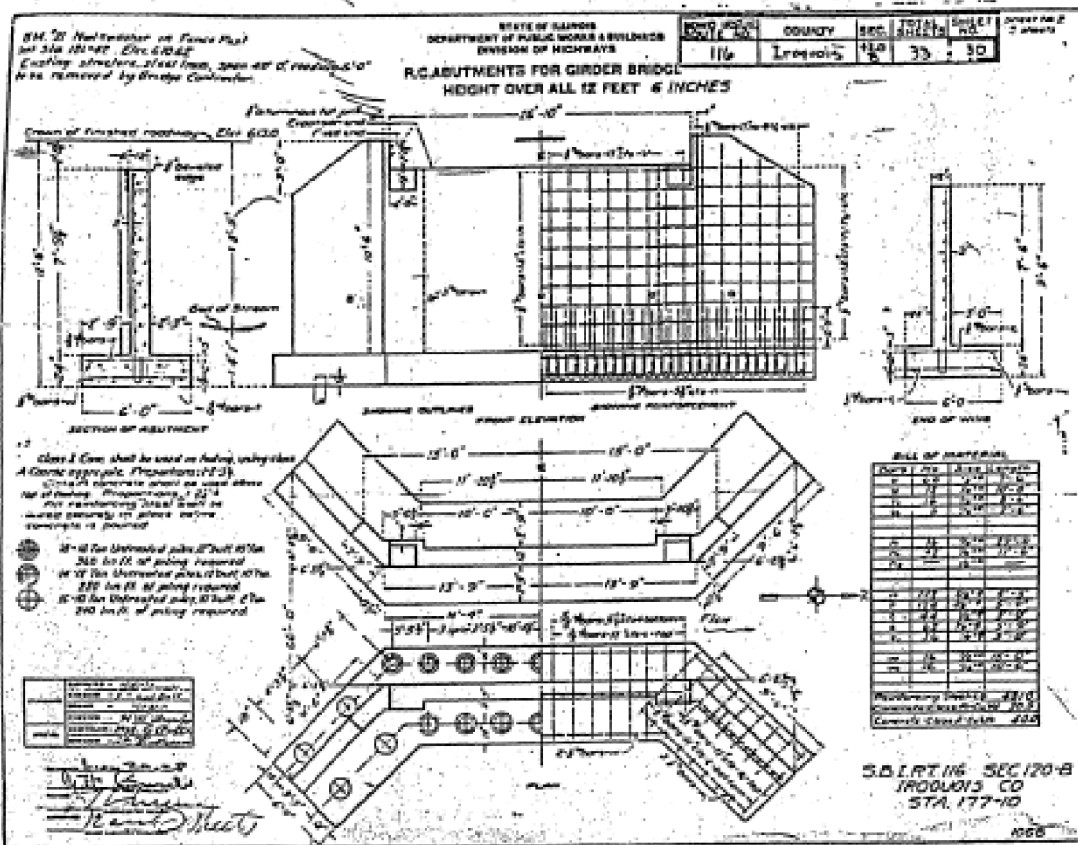
10-8-2014

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLAN
(FOR INFORMATION ONLY)

SHEET NO. 57 OF 58 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	120BR-1	IROUOIS	30	24
			CONTRACT NO. 66C36	
ILLINOIS FED. AID PROJECT				



DESIGNED NS
CHECKED SSK
DRAWN RM
CHECKED SSK

10-8-2014

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

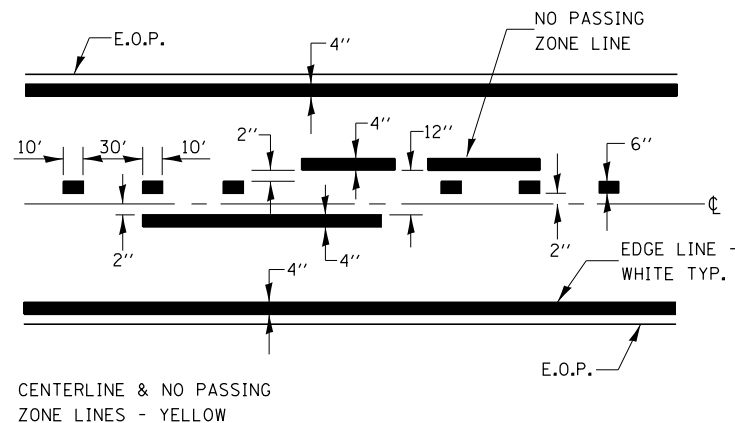
EXISTING STRUCTURAL PLAN
(FOR INFORMATION ONLY)
SHEET NO. 58 OF 58 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	120BR-1	IROQUOIS	30	25
				CONTRACT NO. 66C36

ILLINOIS FED. AID PROJECT

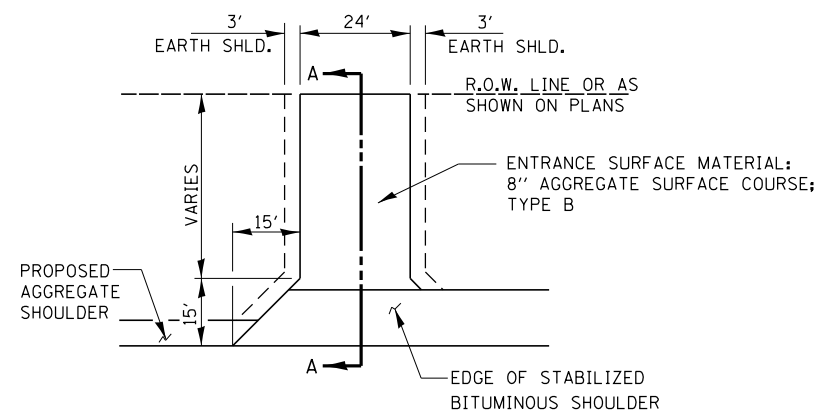
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	NOTED THIS OFFICE	
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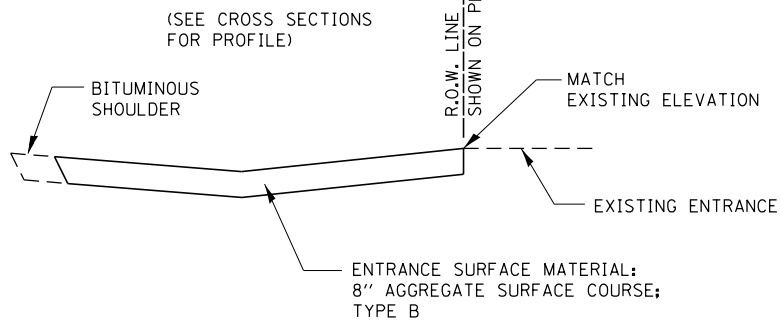


PAVEMENT MARKING

CENTERLINE & NO PASSING ZONE LINES - YELLOW

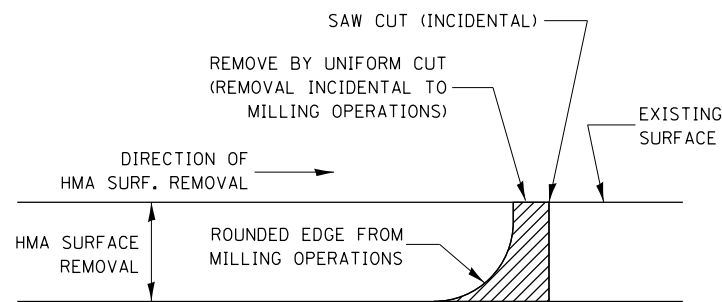


SECTION A-A



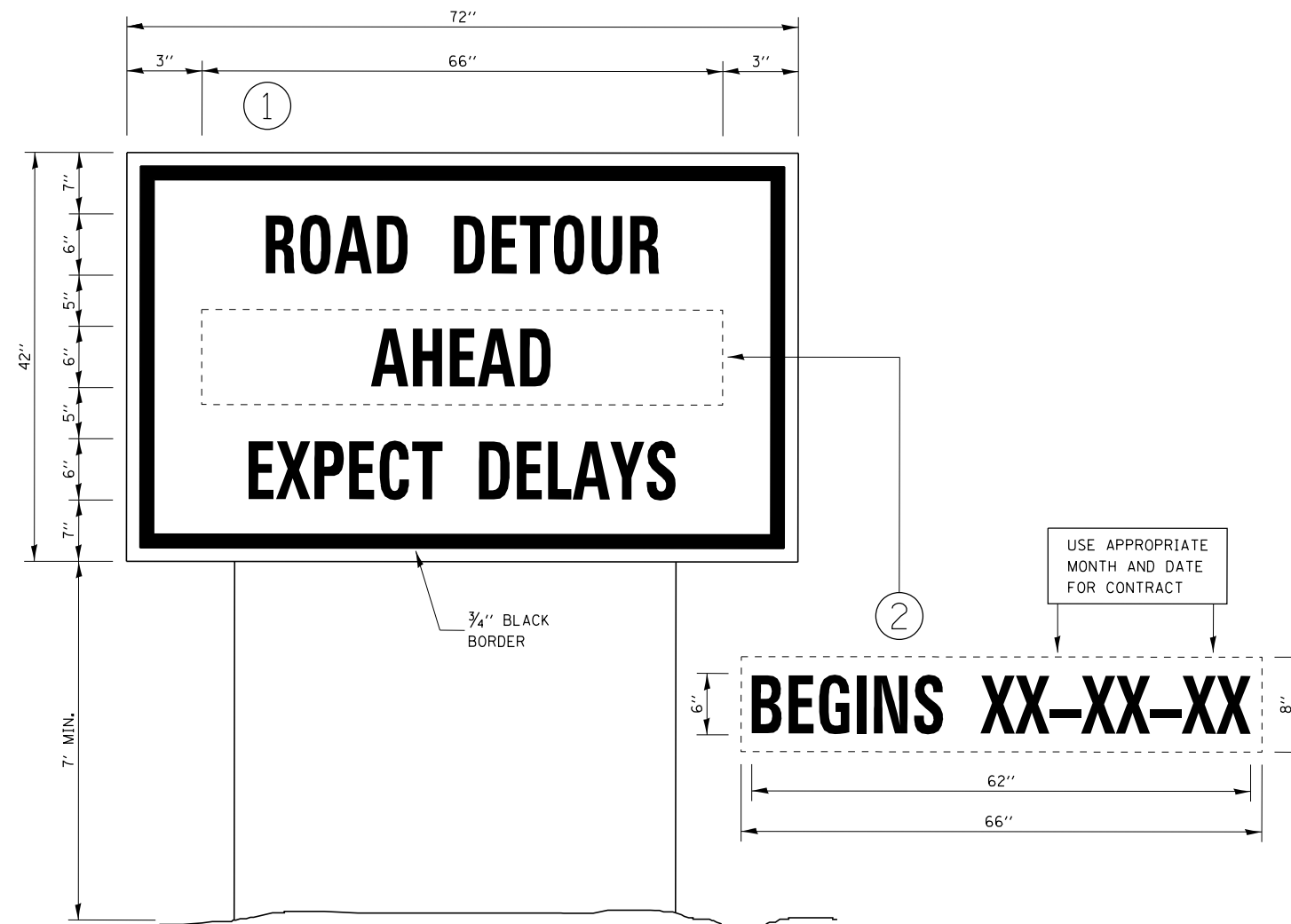
FIELD ENTRANCE DETAIL

* USE 1:6 SLOPE OR MATCH EXIST. FORESLOPE (USE FLATTER OF TWO.)



NOTE:
WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL

HMA DETAIL



TEMPORARY INFORMATION SIGNING

NOTES:

1. USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE DETOUR.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

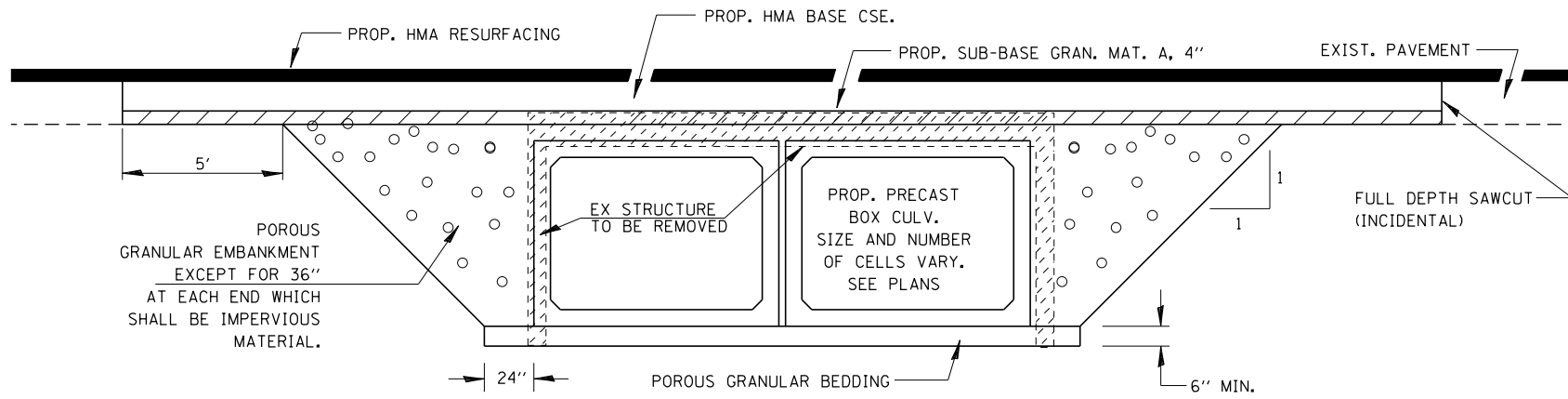
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

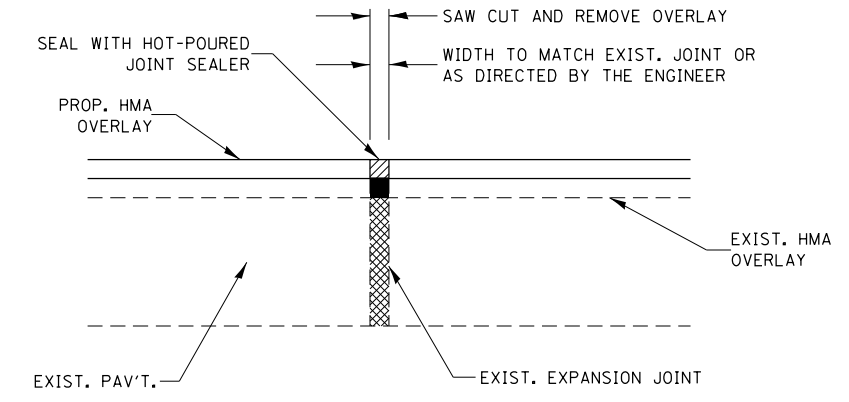
DETAILS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE:	SHEET - OF - SHEETS	315	120BR-1	IROQUOIS	30	26
STA. ...+... TO STA. ...+...		CONTRACT NO. 66C36				
ILLINOIS FED. AID PROJECT						

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	BY	
	CHECKED	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	BY	
	CHECKED	
	FILE NAME	



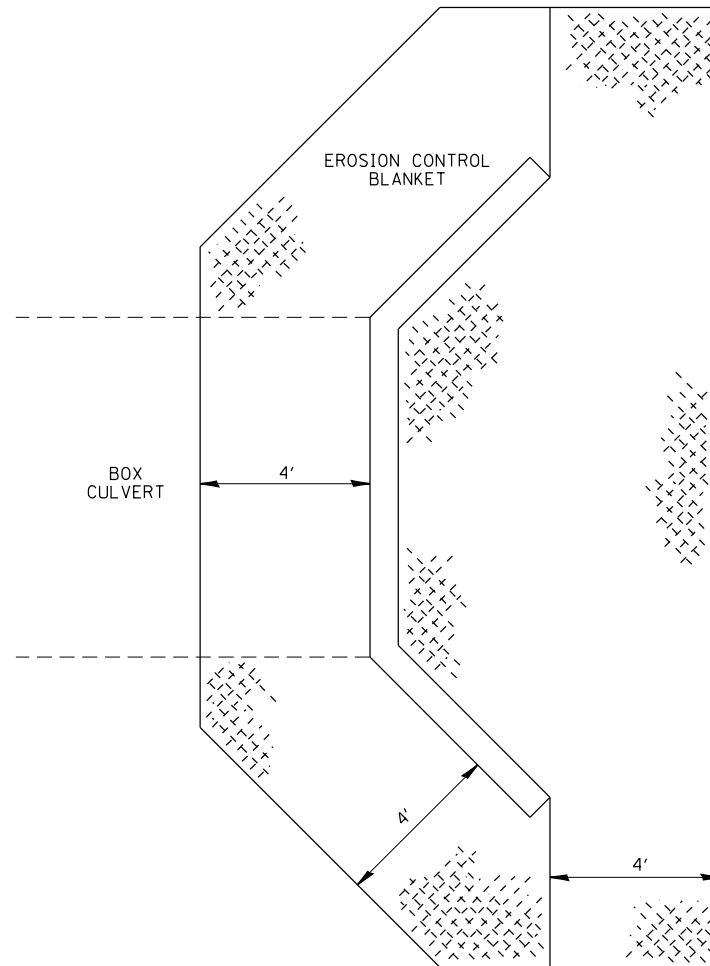
SECTION THROUGH PRECAST BOX CULVERT



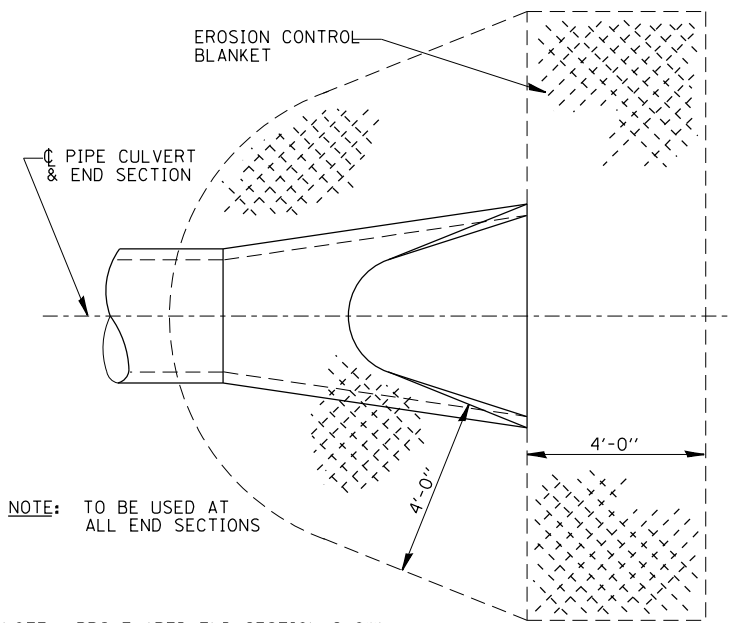
EXPANSION JOINT REHABILITATION DETAIL

GENERAL NOTES:

1. THE NEW HMA OVERLAY SHALL BE SAWED, REMOVED AND THE JOINT AREA CLEANED. PRIOR TO PLACING THE HOT-POURED JOINT SEALER, THE JOINT SHALL BE BLOWN OUT WITH COMPRESSED AIR.
2. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR EXPANSION JOINT REHABILITATION.



EROSION CONTROL BLANKET AT BOX CULVERT END SECTIONS



NOTE: TO BE USED AT ALL END SECTIONS

NOTE: PRC FLARED END SECTION SHOWN. TREATMENT SAME FOR OTHER END SECTIONS.

DETAIL OF EROSION CONTROL BLANKET LINING AROUND END SECTION

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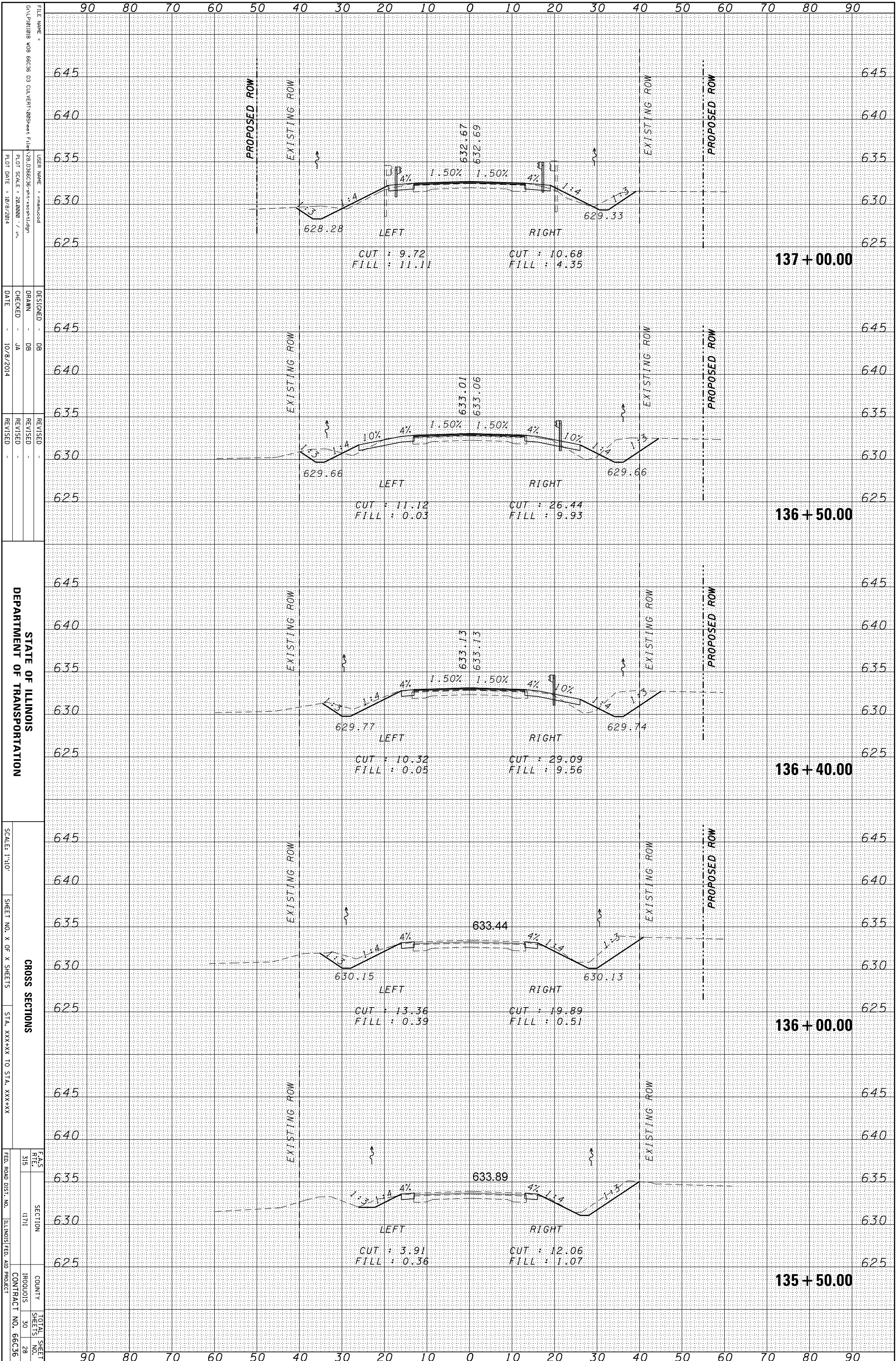
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET	OF	SHEETS	STA. +-----	TO STA. +-----
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	120BR-1	IROQUOIS	30	27
CONTRACT NO. 66C36				
ILLINOIS FED. AID PROJECT				

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



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 PLOT DATE = 10/8/2014

DESIGNED - DB
 DRAWN - DB
 CHECKED - JA
 DATE - 10/8/2014

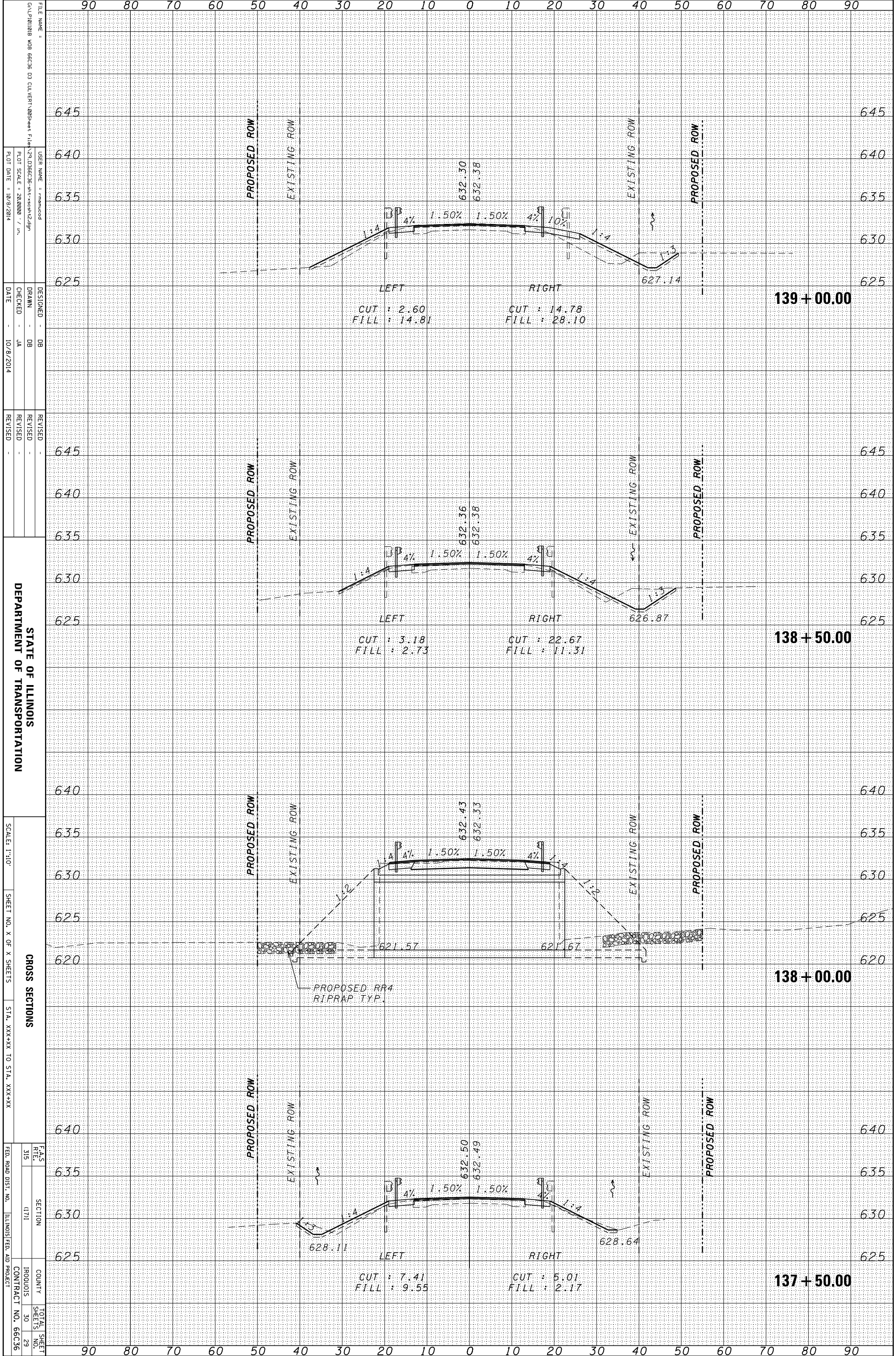
REVISOR
 REVISION
 REVISION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1"=10'
 SHEET NO. X OF X SHEETS
 STA. XXX+XX TO STA. XXX+XX
 CROSS SECTIONS
 F&S
 SECTION
 COUNTY
 IROQUOIS
 CONTRACT NO. 66C36
 TOTAL SHEETS 30
 SHEET NO. 28
 ILLINOIS FED. AID PROJECT

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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	AREAS		
	CHECKED		



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REVISIONS:

NO.	DATE	DESCRIPTION
1	10/8/2014	DESIGNED
2		DRAWN
3		CHECKED
4		DATE

DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=10'

SHEET NO. X OF X SHEETS

STA. XXX+XX TO STA. XXX+XX

F.A.S. SECTION COUNTY IROQUOIS CONTRACT NO. 66C36

TOTAL SHEETS 30

SHEET NO. 29

