

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28,29-N-1	ST. CLAIR	41	1
		ILLINOIS	CONTRACT NO. 76J88	

INDEX OF SHEETS:

- 1 COVER SHEET
- 2 HIGHWAY STANDARDS, GENERAL NOTES, & COMMITMENTS
- 3-5 SUMMARY OF QUANTITIES
- 6 TYPICAL SECTIONS
- 7-8 SCHEDULE OF QUANTITIES
- 9 HORIZONTAL ALIGNMENT / SURVEY TIES
- 10-13 PLAN/PROFILE SHEETS
- 14-16 EROSION & SEDIMENT CONTROL SHEETS
- 17-23 RIGHT-OF-WAY SHEETS
- 24 INTERSECTION DETAIL
- 25-26 PAVEMENT MARKING DETAILS
- 27-31 CULVERT DETAILS
- 32 BORING LOGS
- 33 DETAILS
- 34 DETOUR ROUTE
- 35-41 CROSS SECTIONS

TRAFFIC DATA:

ADT ALONG IL 158/IL 177
 2016 = 8,900 (ACTUAL)
 2018 = 9,000 (ESTIMATED)
 2028 = 9,700 (ESTIMATED)
 SU = 2.5% MU = 0.9%

ADT ALONG PLUM HILL SCHOOL RD
 2016 = 1,850 (ACTUAL)
 2018 = 1,850 (ESTIMATED)
 2028 = 2,000 (ESTIMATED)
 SU = 0.6% MU = 0.1%

FUNCTIONAL CLASSIFICATION:

MINOR ARTERIAL

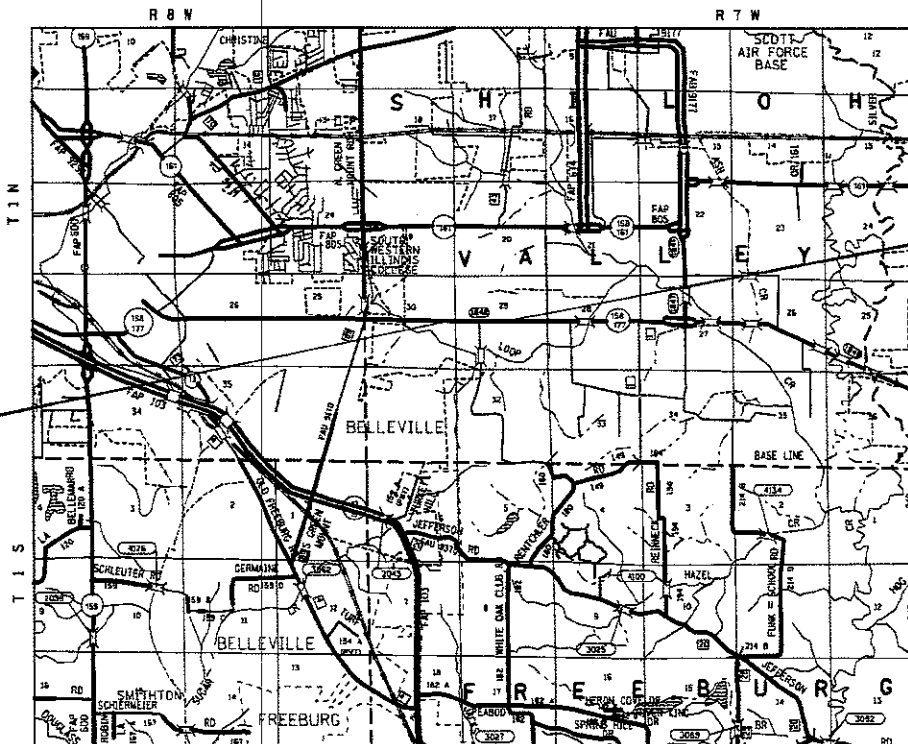
TOWNSHIPS:

SHILOH VALLEY

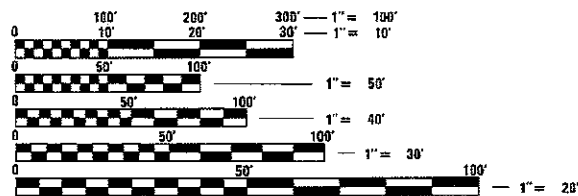
PROPOSED HIGHWAY PLANS

F.A.U. ROUTE 9251 (IL 158/IL 177)
 SECTION 28,29-N-1
 PROJECT HSIP-G2LT(125)
 LEFT TURN LANES - HSIP
 ST. CLAIR COUNTY

C-98-153-18



BEGIN PROJECT
 STA. 284+13.00
 LAT. 38.5048°
 LON. -89.9082°

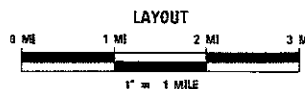


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: TIM PADGETT (618) 346-3325
 PROJECT MANAGER: PHIL FREIMUTH (618) 346-3194

CONTRACT NO. 76J88



GROSS LENGTH = 1654.00 FT. = 0.313 MILE
 NET LENGTH = 1454.00 FT. = 0.275 MILE

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED Jan 19 20 18
Jeffrey L. Keene
 REGIONAL ENGINEER

March 23 20 18
[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

March 23 20 18
[Signature]
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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 OF THE STATE OF ILLINOIS

HIGHWAY STANDARDS

000001-06	STANDARD 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
442201-03	CLASS C AND D PATCHES
542306-03	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
642006	SHOULDER RUMBLE STRIPS, 8 IN.
666001-01	RIGHT OF WAY MARKERS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD 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
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
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
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
B.L.R. 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

GENERAL NOTES

- ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

	AERIAL	BURIED
* AMEREN ILLINOIS - (GAS & ELECTRIC)	X	X
* AT&T ILLINOIS - (COMMUNICATIONS)	X	X
* CHARTER COMMUNICATIONS, INC. - (CABLE TV)	X	X
* CLEARWAVE COMMUNICATIONS - (COMMUNICATIONS)	X	X
* ILLINOIS AMERICAN WATER COMPANY - (WATER)		X
* LEVEL (3) COMMUNICATIONS, LLC - (COMMUNICATIONS)		X

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY *. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE THICKNESS OF THE BITUMINOUS MIXTURE 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.
- ALL EXISTING AND PROPOSED RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.
- FLAGGERS SHALL BE PRESENT DURING ALL CLOSURE HOURS, INCLUDING LUNCH HOUR, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- ALL TRAFFIC CONTROL DEVICES SHALL BE NEW OR "LIKE NEW" CONDITION AT THE BEGINNING OF THE PROJECT.
- ALL EXCAVATION ADJACENT TO THE EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES AND APPROPRIATE LIGHTS.
- THE ILLINOIS DEPARTMENT OF TRANSPORTATION STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. PLEASE CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618/874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

GENERAL NOTES (CONTINUED)

- TWO CHANGEABLE MESSAGE SIGNS SHALL BE PROVIDED ALONG IL 158/IL 177 AND ONE CHANGEABLE MESSAGE SIGN ALONG PLUM HILL SCHOOL ROAD TO ALERT DRIVERS OF A FULL CLOSURE. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED 7 DAYS PRIOR TO CLOSURE AND REMAIN IN PLACE DURING THE FULL CLOSURE. EXACT LOCATION OF THE CHANGEABLE MESSAGE SIGNS SHALL BE DETERMINED BY THE ENGINEER.
- THE DISTRICT LAND ACQUISITION SECTION SHALL BE CONTACTED IF DIFFERENCES ARE IDENTIFIED BETWEEN ANY PROPOSED RIGHT-OF-WAY OR EASEMENT SHOWN ON THE ENGINEERING PLAN SHEETS AS COMPARED TO THE SAME PROPOSED RIGHT-OF-WAY OR EASEMENT SHOWN ON THE PLAT OF HIGHWAYS. QUESTIONS OR CONCERNS REGARDING THESE ITEMS SHOULD BE DIRECTED TO CLINT MARSHALL AT (618) 346-3124.
- ALL EXISTING AND PROPOSED RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE ROADWAY PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.
- IF ANY SECTION OR SUB-SECTION MONUMENT (I.E. STONE, BRASS PLUG, ALUMINUM DISK, IRON PIPE OR PIN, MAG NAIL, CROSS, ETC.), IS ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENT IS REMOVED OR RESURFACED OVER. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE THE MONUMENT IN PLACE UNTIL AN ILLINOIS PROFESSIONAL LAND SURVEYOR WITH A DEPARTMENT PREQUALIFICATION IN "SPECIAL SERVICES SURVEYING" HAS REFERENCED ITS LOCATION.
- ANY MONUMENT OR PROPERTY CORNER TO BE SET SHALL BE SET BY AN ILLINOIS PROFESSIONAL LAND SURVEYOR WITH A DEPARTMENT PREQUALIFICATION IN "SPECIAL SERVICES SURVEYING".
- THE RIGHT-OF-WAY, PERMANENT EASEMENTS AND TEMPORARY EASEMENTS SHALL BE STAKED PRIOR TO ANY CONSTRUCTION OPERATIONS. STAKES SHALL BE PLACED SUCH THAT THEY ARE VISIBLE FROM EACH OTHER AND ARE SUFFICIENTLY SPACED TO DETERMINE THE LOCATION OF THE RIGHT-OF-WAY OR EASEMENT IN ANY LOCATION. THE RIGHT-OF-WAY SHALL BE STAKED BY AN ILLINOIS PROFESSIONAL LAND SURVEYOR WITH A DEPARTMENT PREQUALIFICATION IN "SPECIAL SERVICES SURVEYING". THIS WORK SHALL BE INCLUDED IN THE LUMP SUM COST FOR CONSTRUCTION LAYOUT.
- THE RIGHT-OF-WAY OR PROPERTY CORNER IS MONUMENTED WITH A 5/8" IRON ROD, THIRTY INCHES (30") IN LENGTH, WITH AN IDOT ALUMINUM CAP THAT SHALL NOT BE REMOVED, DAMAGED OR DISTURBED WHEN SETTING THE RIGHT-OF-WAY MARKER. THE RIGHT-OF-WAY MARKER SHALL BE INSTALLED SO THAT THE BACK OF THE POST IS TWELVE INCHES (12") INSIDE THE RIGHT-OF-WAY BOUNDARY. THE RIGHT-OF-WAY MARKER SHALL BE A WITNESS TO THE MONUMENT.

COMMITMENTS

NONE

MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT.

MIXTURE USE	POLY SURFACE	BINDER	LEVEL BINDER	SHOULDERS ≥ 2.25"	SHOULDERS < 2.25"
AC/PG	SBS PG 76-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=30	4.0% @ Ndes=30
MIX COMPOSITION (GRADATION)	IL 9.5	IL 19.0	IL 9.5 FG	IL 19.0L	IL 9.5L
FRICTION AGG	MIXTURE "D"	MIXTURE "B"	MIXTURE "C"		
QUALITY MGMT PROGRAM	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA

PLAN QUANTITIES FOR HMA SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN.

FILE NAME =	USER NAME = frcsmthpd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGHWAY STANDARDS, GENERAL NOTES, & COMMITMENTS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw\11084EBID\INTEG.illinois.gov\PIDOT\Documents\IDOT Offices\District 8\Projects\0876J88\Drawings\0876J88-sht-plen.dwg		CHECKED -	REVISED -			9251	28,29-N-1	ST. CLAIR	41	2	
#MODELNAME#	PLOT DATE = 12/20/2017	DATE -	REVISED -			CONTRACT NO. 76J88					
						SCALE:	SHEET	OF	SHEETS	STA.	TO

ILLINOIS FED. AID PROJECT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	90% FED 10% STATE	
				CONSTR. CODE	
				ROADWAY	
				0021	
				URBAN	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	30		30
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2		2
54010603	PRECAST CONCRETE BOX CULVERTS 6' X 3'	FOOT	50		50
542D5479	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 24"	FOOT	35		35
54214719	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELECTRICAL, EQUIVALENT ROUND-SIZE 24"	EACH	2		2
54260315	TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTION	FOOT	64		64
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	13		13
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3		3
67100100	MOBILIZATION	L SUM	1		1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1		1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1		1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1		1
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1		1

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	90% FED 10% STATE	
				CONSTR. CODE	
				ROADWAY	
				0021	
				URBAN	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	156		156
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	52		52
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	32		32
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	8749		8749
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	359		359
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	29		29
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	1		1
* 72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	1		1
* 72400320	REMOVE SIGN PANEL - TYPE 2	SQ FT	6.3		6.3
* 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1		1
* 72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1		1
* 72400720	RELOCATE SIGN PANEL - TYPE 2	SQ FT	6.3		6.3
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	32		32
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	8749		8749

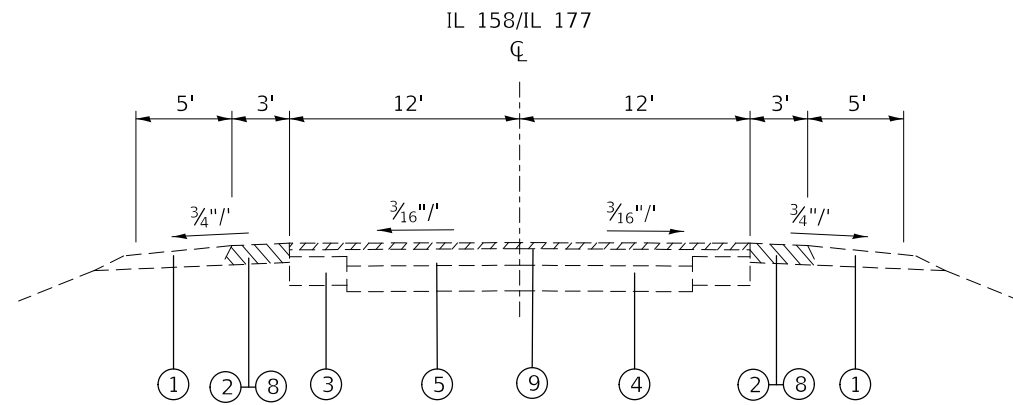
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		PLOT SCALE = 100.0000' / in.	REVISOR -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

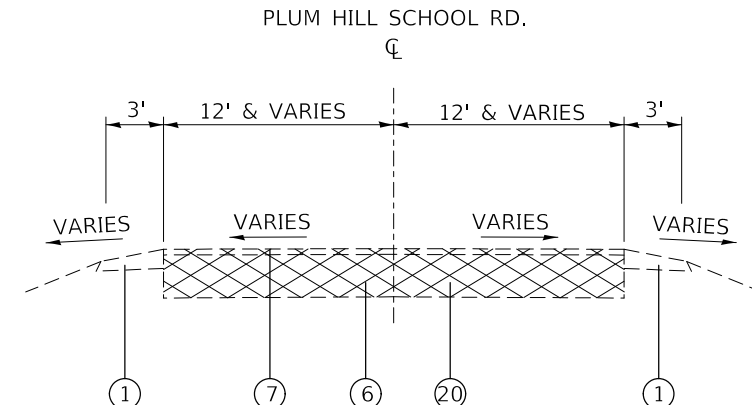
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28,29-N-1	ST. CLAIR	41	4
CONTRACT NO. 76J88			ILLINOIS FED. AID PROJECT	



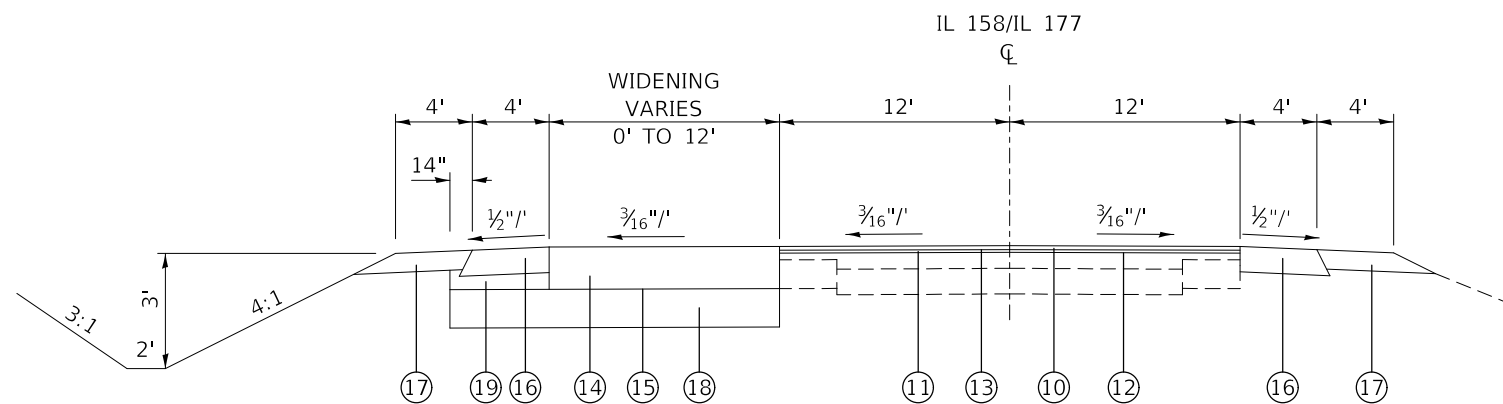
EXISTING TYPICAL SECTION

STA. 285+23 TO STA. 299+57



EXISTING TYPICAL SECTION

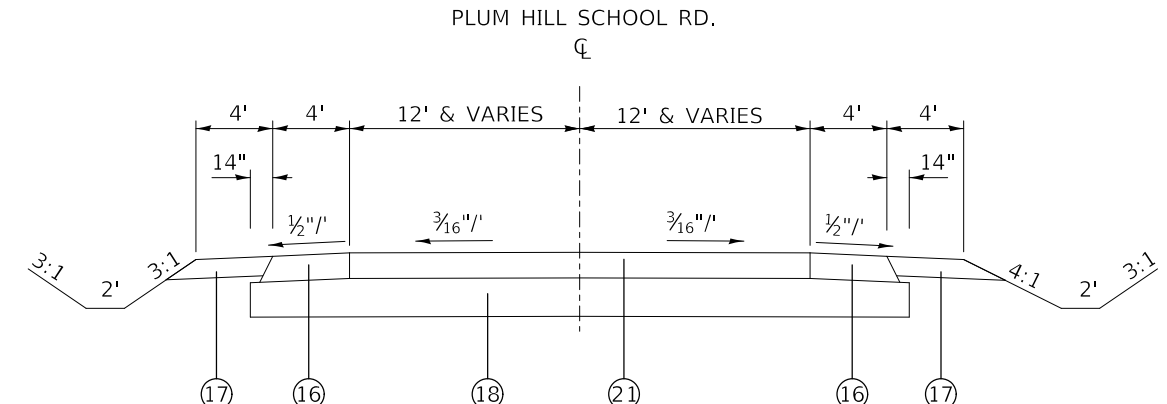
STA. 98+61.49 TO STA. 99+88.00



PROPOSED TYPICAL SECTION

WIDENING
VARIES 0'-12'
CONSTANT 12'
VARIES 12'-0'

STA. 285+23 TO STA. 290+03
STA. 290+03 TO STA. 294+77
STA. 294+77 TO STA. 299+57



PROPOSED TYPICAL SECTION

STA. 98+61.49 TO STA. 99+88.00

NOTE:

PROPOSED HMA PAVEMENT (FULL-DEPTH), 11" CONSISTS OF:
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N70, 1"
HMA BINDER COURSE, 8 1/2"

PROPOSED HMA PAVEMENT (FULL-DEPTH), 8" CONSISTS OF:
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
HMA BINDER COURSE, 6 1/2"

LEGEND

- ① EXISTING AGGREGATE SHOULDER
- ② EXISTING HMA SHOULDER
- ③ EXISTING BASE COURSE WIDENING, 9"
- ④ EXISTING PORTLAND CEMENT CONCRETE PAVEMENT 7" TO 9" THICK
- ⑤ EXISTING HMA RESURFACING, ±4"
- ⑥ EXISTING PAVEMENT (DEPTH AND TYPE IS UNKNOWN)
- ⑦ EXISTING OIL AND CHIP SURFACE
- ⑧ PROPOSED PAVED SHOULDER REMOVAL
- ⑨ PROPOSED HMA SURFACE REMOVAL, 2 1/4"
- ⑩ PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ⑪ PROPOSED LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N70, 1"
- ⑫ PROPOSED BITUMINOUS MATERIAL (TACK COAT)
- ⑬ PROPOSED POLYMERIZED BITUMINOUS MATERIAL (TACK COAT)
- ⑭ PROPOSED HMA PAVEMENT (FULL-DEPTH), 11"
- ⑮ PROPOSED BITUMINOUS MATERIAL (PRIME COAT)
- ⑯ PROPOSED HMA SHOULDERS, 8"
- ⑰ PROPOSED AGGREGATE SHOULDER, 6"
- ⑱ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B, 12"
- ⑲ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE C
- ⑳ PROPOSED PAVEMENT REMOVAL (INCLUDED IN COST OF EARTH EXCAVATION)
- ㉑ PROPOSED HMA PAVEMENT (FULL-DEPTH), 8"

FILE NAME =	USER NAME = freimuthd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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\$MODELNAME\$	PLOT DATE = 12/20/2017	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 76J88				
											ILLINOIS FED. AID PROJECT	

EARTHWORK SCHEDULE						
LOCATION			EARTH EXCAVATION	TOTAL EXCAVATION ADJUSTED FOR 25% SHRINKAGE	EMBANKMENT	BALANCE WASTE (+) SHORTAGE (-)
STA	TO	STA	CU YD	CU YD	CU YD	CU YD
IL 158/IL 177						
285+23	TO	285+50	19.93	15	0	15
285+50	TO	286+00	42.08	32	2	30
286+00	TO	286+50	57.75	43	4	39
286+50	TO	287+00	72.24	54	6	48
287+00	TO	287+50	70.12	53	9	43
287+50	TO	288+00	62.81	47	14	34
288+00	TO	288+50	72.21	54	19	35
288+50	TO	289+00	98.27	74	26	48
289+00	TO	289+50	131.79	99	36	63
289+50	TO	290+00	148.27	111	53	59
290+00	TO	290+50	126.23	95	53	42
290+50	TO	291+00	102.87	77	42	35
291+00	TO	291+50	99.42	75	41	34
291+50	TO	292+00	114.77	86	38	48
292+00	TO	292+50	126.15	95	37	57
292+50	TO	293+00	129.96	97	38	59
293+00	TO	293+50	133.04	100	40	60
293+50	TO	294+00	125.73	94	40	54
294+00	TO	294+50	119.44	90	40	50
294+50	TO	295+00	109.52	82	41	41
295+00	TO	295+50	100.00	75	42	33
295+50	TO	296+00	94.76	71	40	31
296+00	TO	296+29	57.88	43	11	32
296+29	TO	296+50	41.76	31	4	27
296+50	TO	297+00	75.93	57	20	37
297+00	TO	297+50	55.06	41	18	23
297+50	TO	298+00	44.26	33	13	21
298+00	TO	298+50	35.56	27	7	20
298+50	TO	299+00	32.56	24	2	23
299+00	TO	299+50	27.75	21	0	21
299+50	TO	299+57	3.20	2	0	2
PLUM HILL SCHOOL ROAD						
98+61	TO	99+00	67.82	51	19	32
99+00	TO	99+50	137.80	103	27	76
99+50	TO	99+88	297.03	223	2	221
TOTAL			3034	2275	781	1494

TEMPORARY RAMPS					
LOCATION			LENGTH	WIDTH	AREA
STA	TO	STA	FOOT	FOOT	(SQ YD)
IL 158/IL 177					
285+23.00	TO	285+30.50	7.5	24	20
299+49.50	TO	299+57.00	7.5	24	20
PLUM HILL SCHOOL ROAD					
290+68.00	TO	292+65.00	2.5	197	55
TOTAL					95

1. TEMPORARY RAMPS FOR SIDE ROADS SHALL ONLY BE 2.5' LONG.

SIGN SCHEDULE							
LOCATION	ROAD SIDE	REMOVE SIGN PANEL ASSEMBLY - TYPE A	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	REMOVE SIGN PANEL ASSEMBLY - TYPE B	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	REMOVE SIGN PANEL - TYPE 2	RELOCATE SIGN PANEL - TYPE 2
STA	LT / RT	EACH	EACH	EACH	EACH	SQ FT	SQ FT
IL 158/IL 177							
298+38	LT			1	1		
PLUM HILL SCHOOL RD							
99+67	RT					6.3	6.3
99+67	RT	1	1				
TOTAL:		1	1	1	1	6.3	6.3

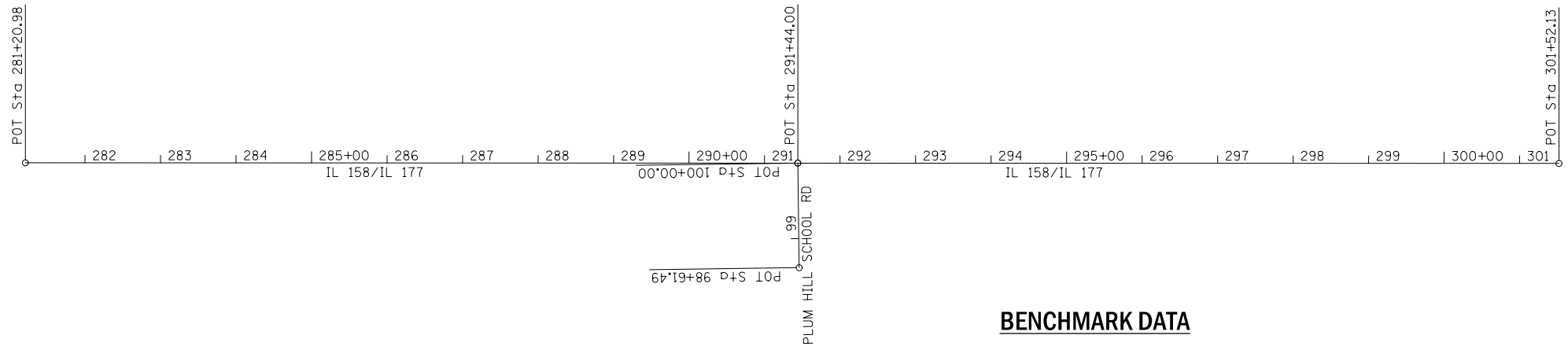
CULVERT REPLACEMENT SCHEDULE								
LOCATION	REMOVAL OF EXISTING STRUCTURES	PRECAST CONCRETE BOX CULVERT 6' X 3'	BOX CULVERT END SECTIONS, CULVERT NO. 1	TRAVERSABLE PIPE GRATE	POROUS GRANULAR EMBANKMENT	MEMBRANE WATERPROOFING FOR BURIED STRUCTURES	PAVEMENT PATCHING, TYPE III, 13"	SUBBASE GRANULAR MATERIAL, TYPE C
STA	EACH	FOOT	EACH	FOOT	CU YD	SQ YD	SQ YD	CU YD
IL 158/IL 177								
289+82.55	1	50	2	64	34	55	30	8
TOTAL		1	50	2	64	34	30	8

FIELD ENTRANCE SCHEDULE				
LOCATION	PIPE CULVERT REMOVAL	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 24"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE 24"	AGGREGATE SURFACE COURSE, TYPE A, 8"
STA	FOOT	FOOT	EACH	SQ YD
IL 158/IL 177				
296+29.16	30.00	35	2	102.7
TOTAL		30.00	35	102.7

RIGHT-OF-WAY MARKERS			
LOCATION	ROAD SIDE	OFFSET	FURNISHED AND ERECTING ROW MARKERS
STATION	RT / LT	FEET	EACH
IL 158/IL 177			
288+75.00	LT	60.24	1
289+50.00	RT	59.82	1
289+75.00	LT	75.16	1
289+75.00	RT	69.84	1
290+00.00	LT	75.14	1
290+44.12	RT	69.90	1
290+50.96	LT	70.10	1
291+15.51	RT	140.53	1
291+43.93	LT	70.02	1
291+70.74	RT	159.89	1
292+29.59	RT	60.00	1
294+75.00	LT	69.95	1
297+00.00	LT	59.90	1
TOTAL			13

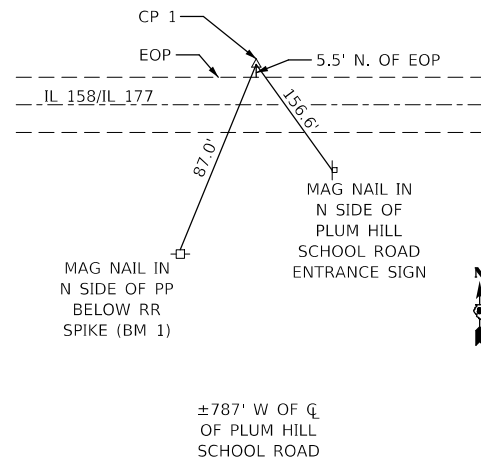
ALIGNMENT COORDINATES - IL 158/IL 177				
	STATION	N	E	
	201	281+20.98	669,435.2633	370,416.7542
	204	291+44.00	669,434.8187	371,439.7734
	200	301+52.13	669,434.3806	372,447.9026

ALIGNMENT COORDINATES - PLUM HILL SCHOOL				
	STATION	N	E	
	202	98+61.49	669,296.3228	371,441.5921
	205	100+00.00	669,434.8187	371,439.7734



BENCHMARK DATA

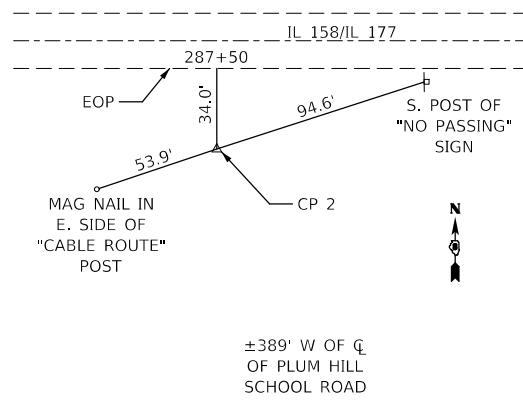
B.M. NO.	DESCRIPTION	ELEVATION
BM 177-22	CUT "□" ON TOP OF CENTER OF BOX CULVERT @ S. SIDE OF IL 177, ±150' W OF PLUM HILL SCHOOL ROAD. (AERIAL SURVERY NO. D-2212 OB 17, JOB # P98-001-14)	465.2156'
BM 1	RR SPIKE IN N SIDE OF PP ON THE S SIDE OF IL 177, ±817' W OF THE CL OF PLUM HILL SCHOOL ROAD.	472.1351'
BM 2	CUT "□" ON NW CORNER OF CONCRETE SLAB WITH CABINETS ON THE S SIDE OF IL 177, ±300' W OF THE CL OF THE ENT. TO EDWARDS EQUIP.	472.4059'



CONTROL POINT #1

5/8"Ø x 30" REBAR WITH IDOT CAP

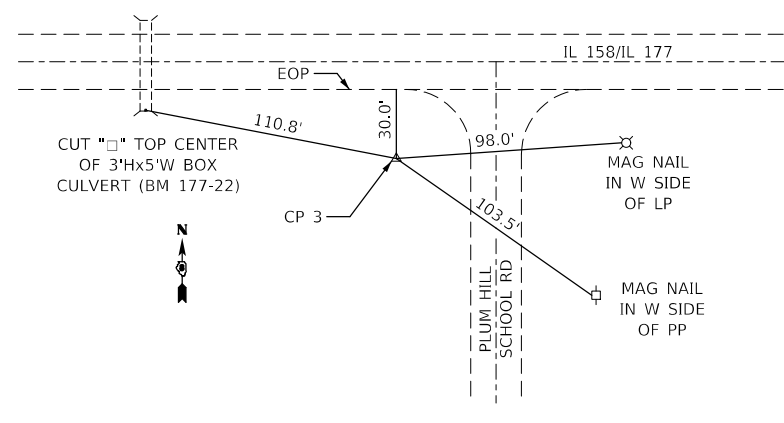
N 669,455.3268
E 370,649.6451



CONTROL POINT #2

5/8"Ø x 30" REBAR WITH IDOT CAP

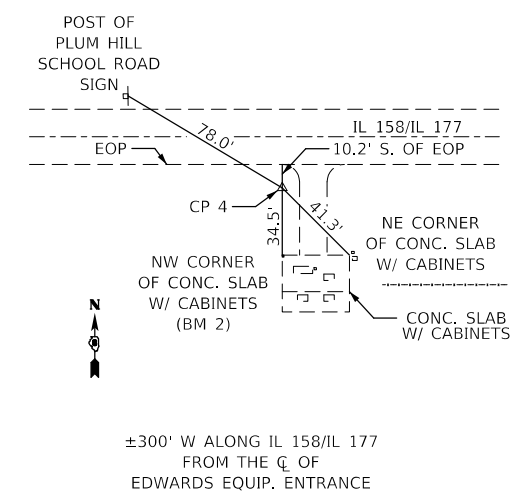
N 669,386.2058
E 371,047.0968



CONTROL POINT #3

5/8"Ø x 30" REBAR WITH IDOT CAP

N 669,390.0195
E 371,389.3430



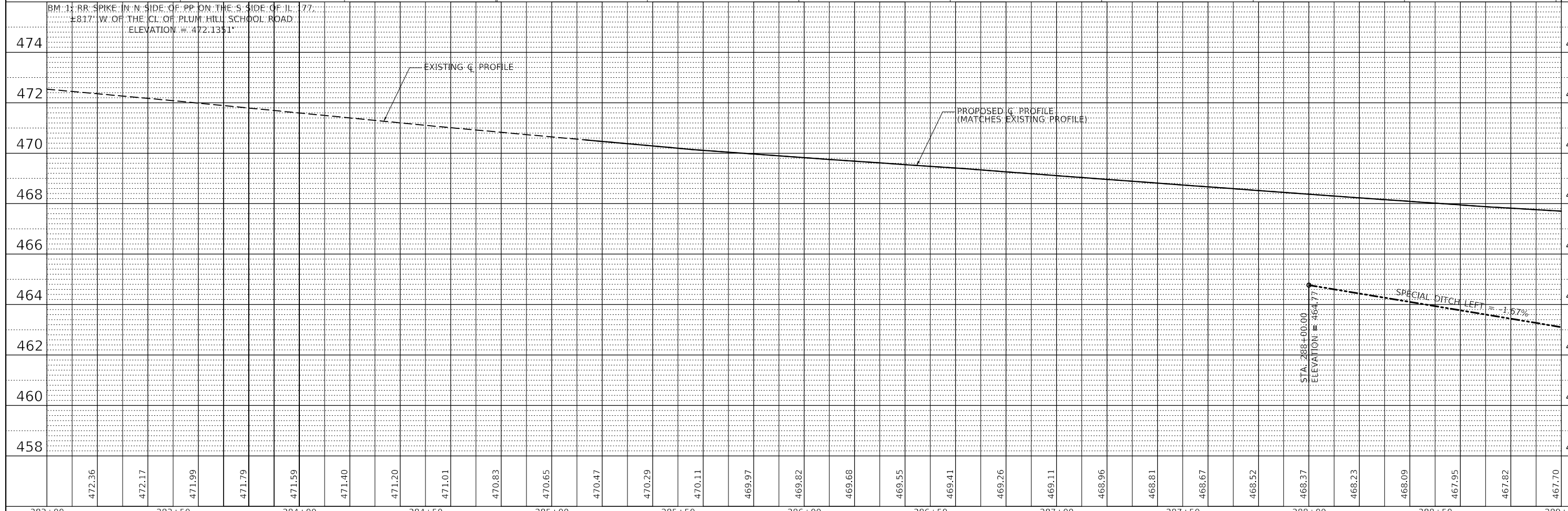
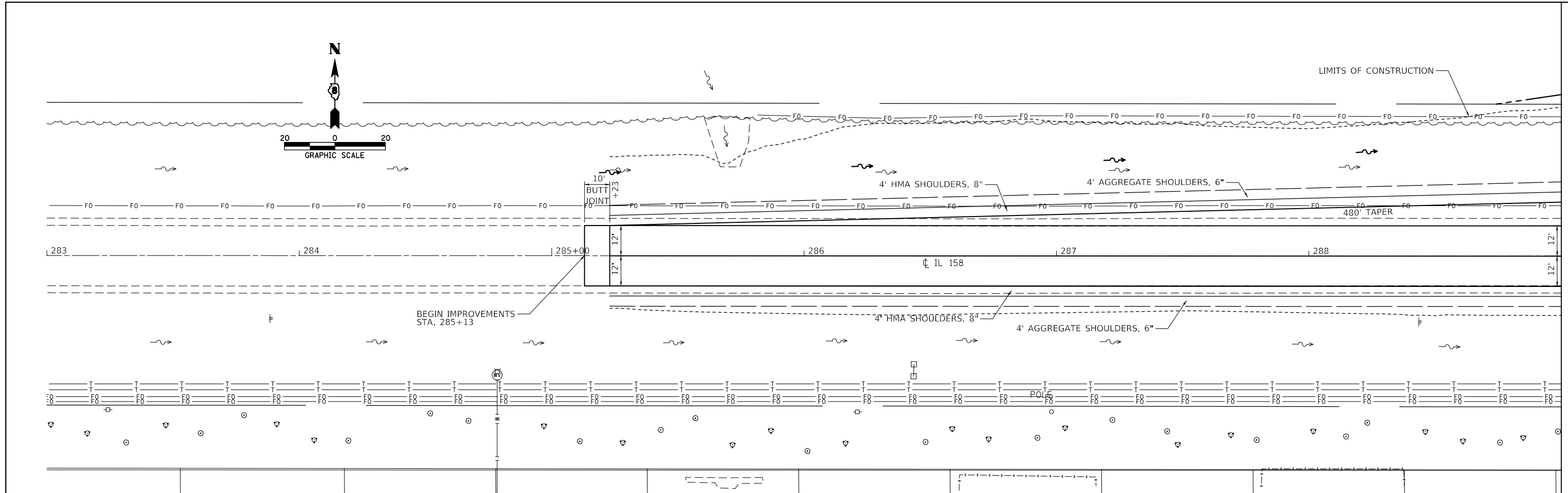
CONTROL POINT #4

5/8"Ø x 30" REBAR WITH IDOT CAP

N 669,409.4000
E 372,193.2420

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	FILE NAME	
	NO.	

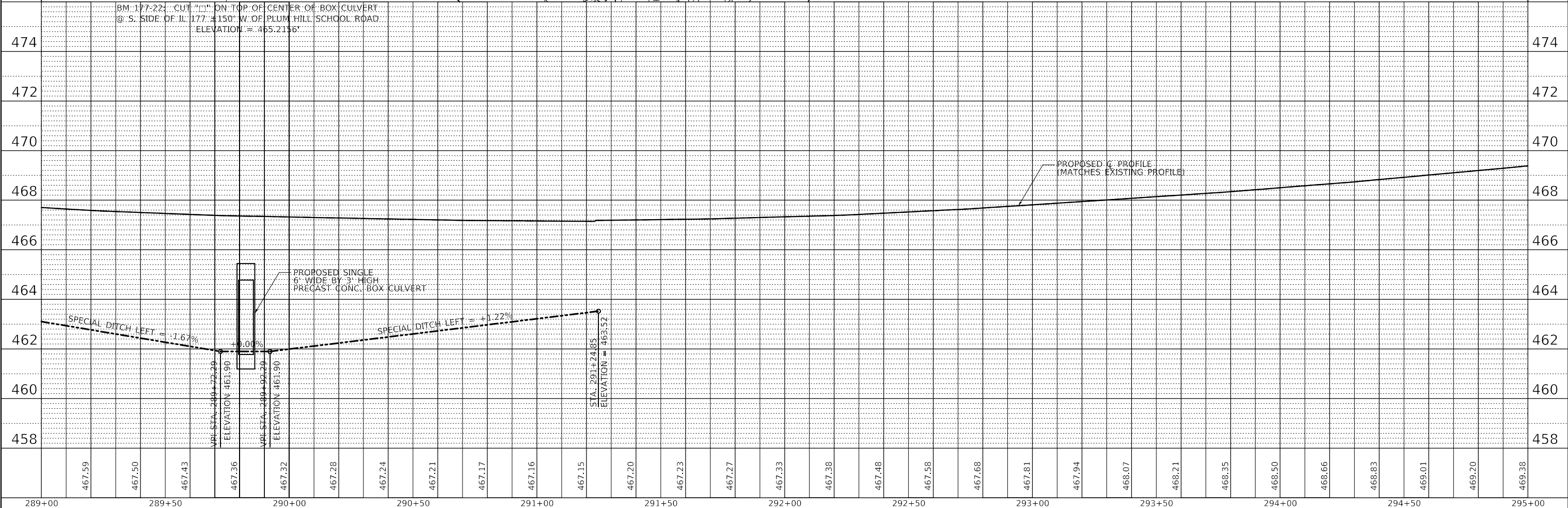
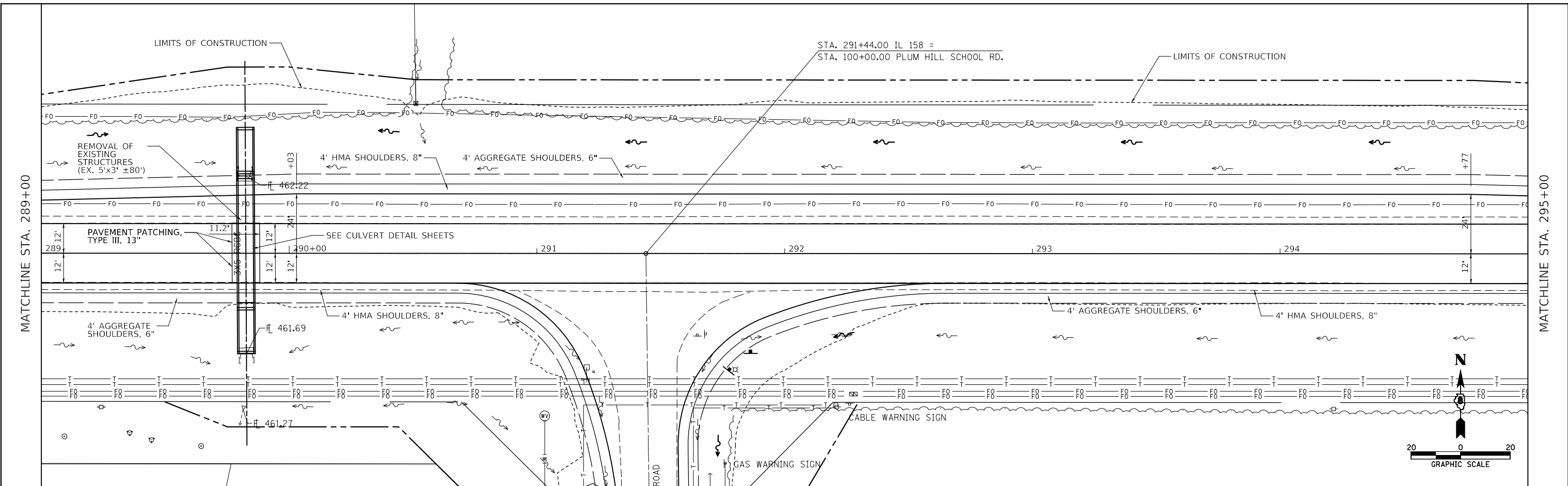
PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	STRUCTURE	
	NOTATION	
	NO.	



283+00	472.36	283+50	471.99	284+00	471.59	284+50	471.01	285+00	470.83	285+50	470.29	286+00	469.82	286+50	469.41	287+00	469.11	287+50	468.67	288+00	468.37	288+50	467.95	289+00	467.70
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	ALIGNED
	CHECKED
	DESIGNED
	NOTED
	FILED
NOTE BOOK NO.	
STRUCTURE NO.	
NOTATION CHWD	

DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	GRADES CHECKED
	STRUCTURE
	NOTATION CHWD
NOTE BOOK NO.	
STRUCTURE NO.	
NOTATION CHWD	



FILE NAME =	USER NAME = freimthpd	DESIGNED -	REVISED -
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MODELNAME =	PLOT DATE = 1/19/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

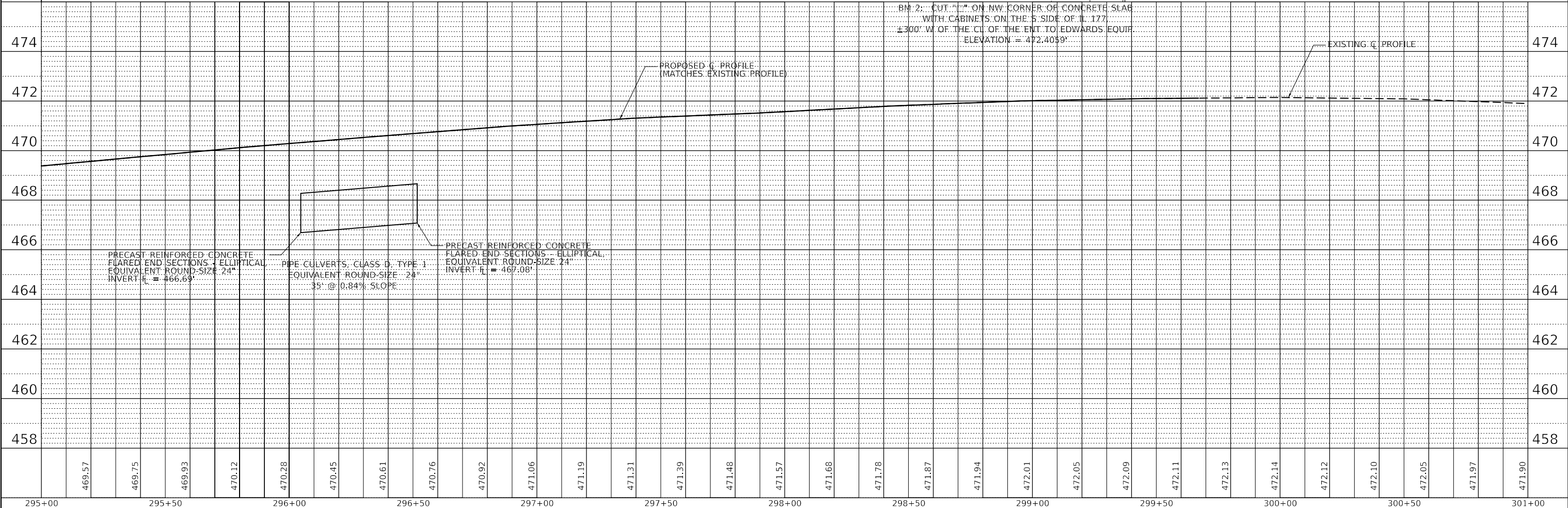
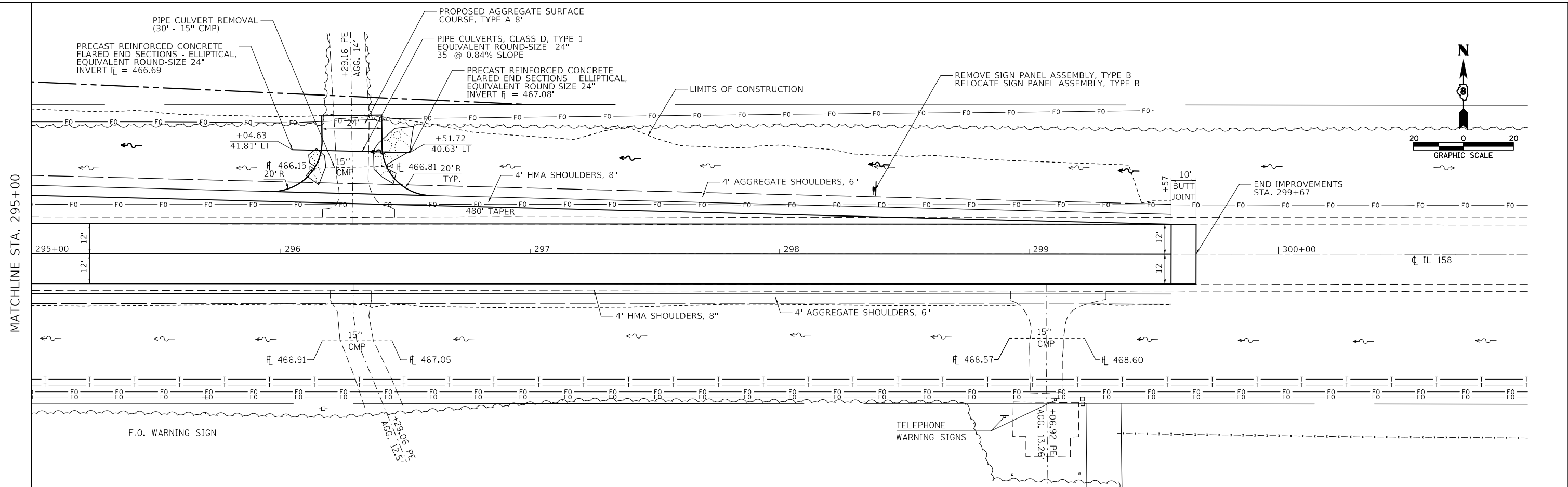
PLAN /PROFILE SHEET

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28,29-N-1	ST. CLAIR	41	11
CONTRACT NO. 76J88				
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME =	USER NAME = freimthpd	DESIGNED -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN /PROFILE SHEET

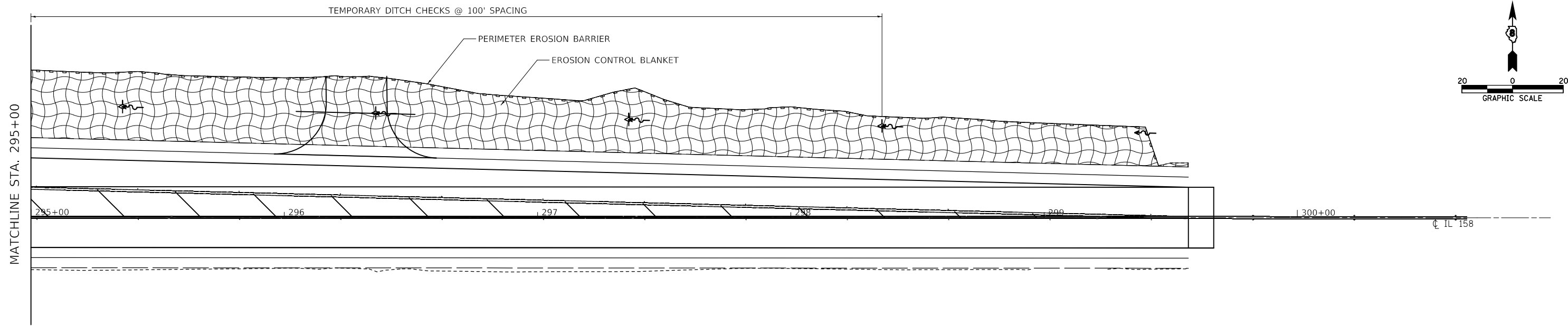
SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.




F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28,29-N-1	ST. CLAIR	41	12
CONTRACT NO. 76J88				
ILLINOIS FED. AID PROJECT				

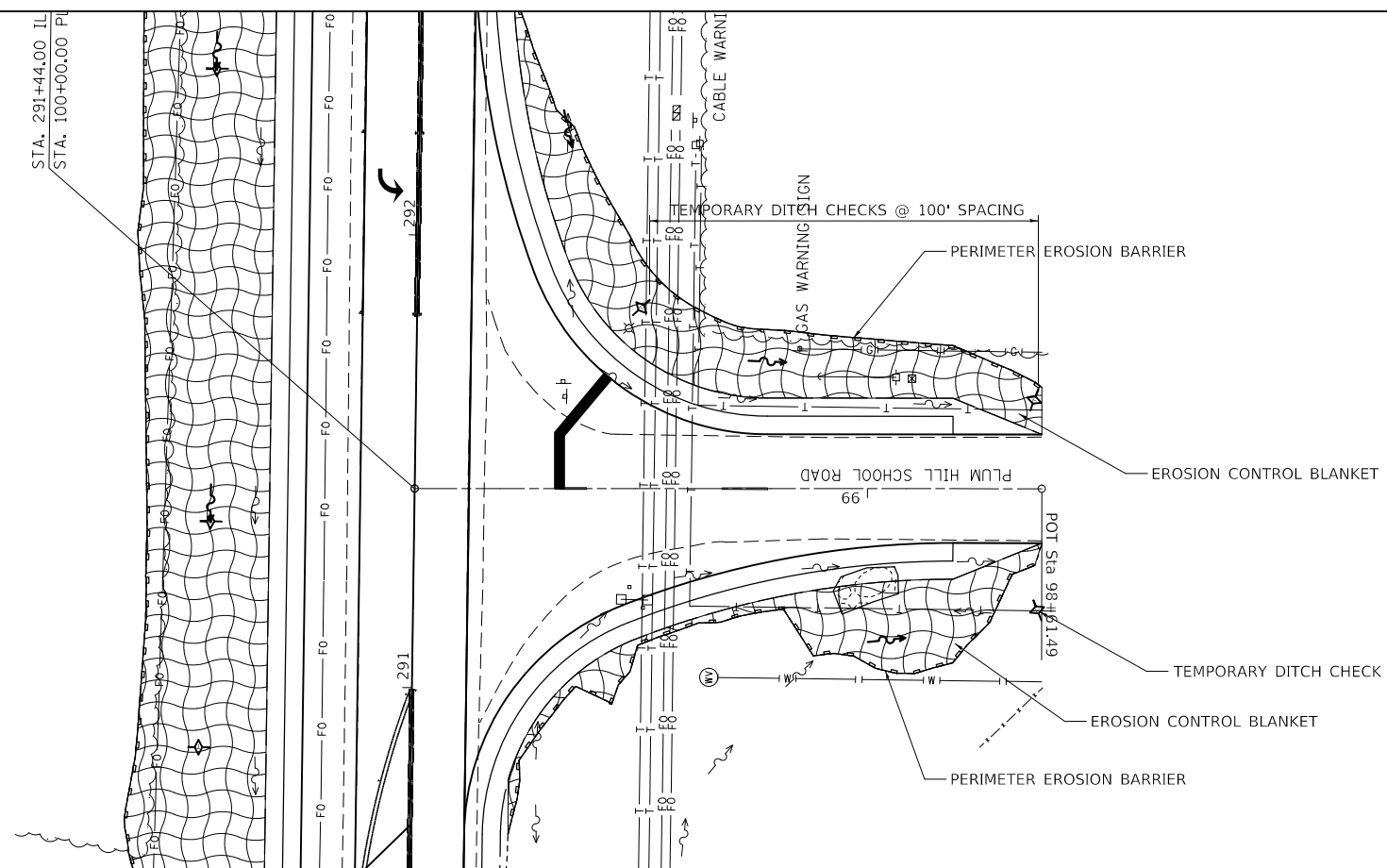
TEMPORARY EROSION AND SEDIMENT CONTROL						
LOCATION			ROAD SIDE	PERIMETER EROSION BARRIER	TEMPORARY EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING 3 SEEDINGS
STA	TO	STA	LT / RT	FOOT	SQ YD	POUND
IL 158/IL 177						
285+23	TO	299+57	LT	1447	4120	255.3
IL 158/IL 177						
98+62	TO	99+88	LT	168	115	7.1
98+62	TO	99+88	RT	159	218	13.5
TOTAL				1774	4453	276

DITCH CHECK SCHEDULE							
STATION			LENGTH	SPACING	WIDTH	QUANTITY	TEMPORARY DITCH CHECK
STA.	TO	STA.	FOOT	FOOT	FOOT	EACH	FOOT
IL 158/IL 177							
285+23.00	TO	287+80.00	257.0	100.0	10.0	3	30
287+80.00	TO	289+80.00	200.0	50.0	10.0	4	40
289+86.00	TO	291+36.00	150.0	50.0	10.0	3	30
291+36.00	TO	299+57.00	821.0	100.0	10.0	8	80
PLUM HILL SCHOOL ROAD							
98+62.00	TO	99+62.00	100.0	100.0	8.0	3	24
TOTAL						21	204

SEEDING SCHEDULE							
LOCATION			SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENTS	PHOSPHORUS FERTILIZER NUTRIENTS	POTASSIUM FERTILIZER NUTRIENTS	MULCH METHOD 2
STA	TO	STA	ACRE	LB	LB	LB	ACRE
IL 158/IL 177							
285+23	TO	299+57	0.85	77	77	77	0.85
IL 158/IL 177							
98+62	TO	99+88	0.02	2	2	2	0.02
98+62	TO	99+88	0.05	4	4	4	0.05
TOTAL			0.92	83	83	83	0.92



- LEGEND:
-  EROSION CONTROL BLANKET
 -  PERIMETER SILT FENCE
 -  TEMPORARY DITCH CHECK



FILE NAME =	USER NAME = freimthpd	DESIGNED -	REVISED -
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\$MODELNAME\$	PLOT DATE = 12/20/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION & SEDIMENT CONTROL SHEETS				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

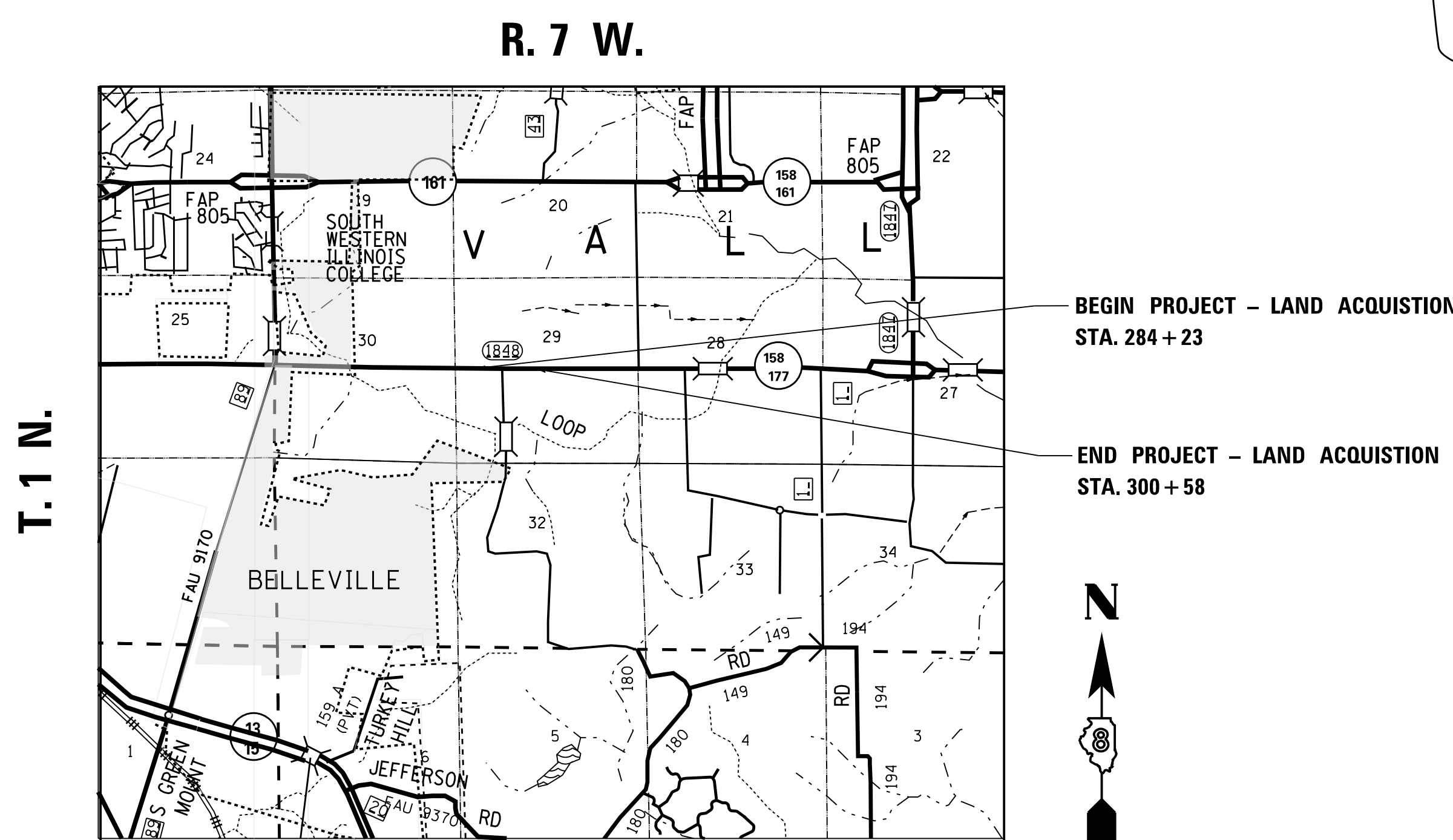
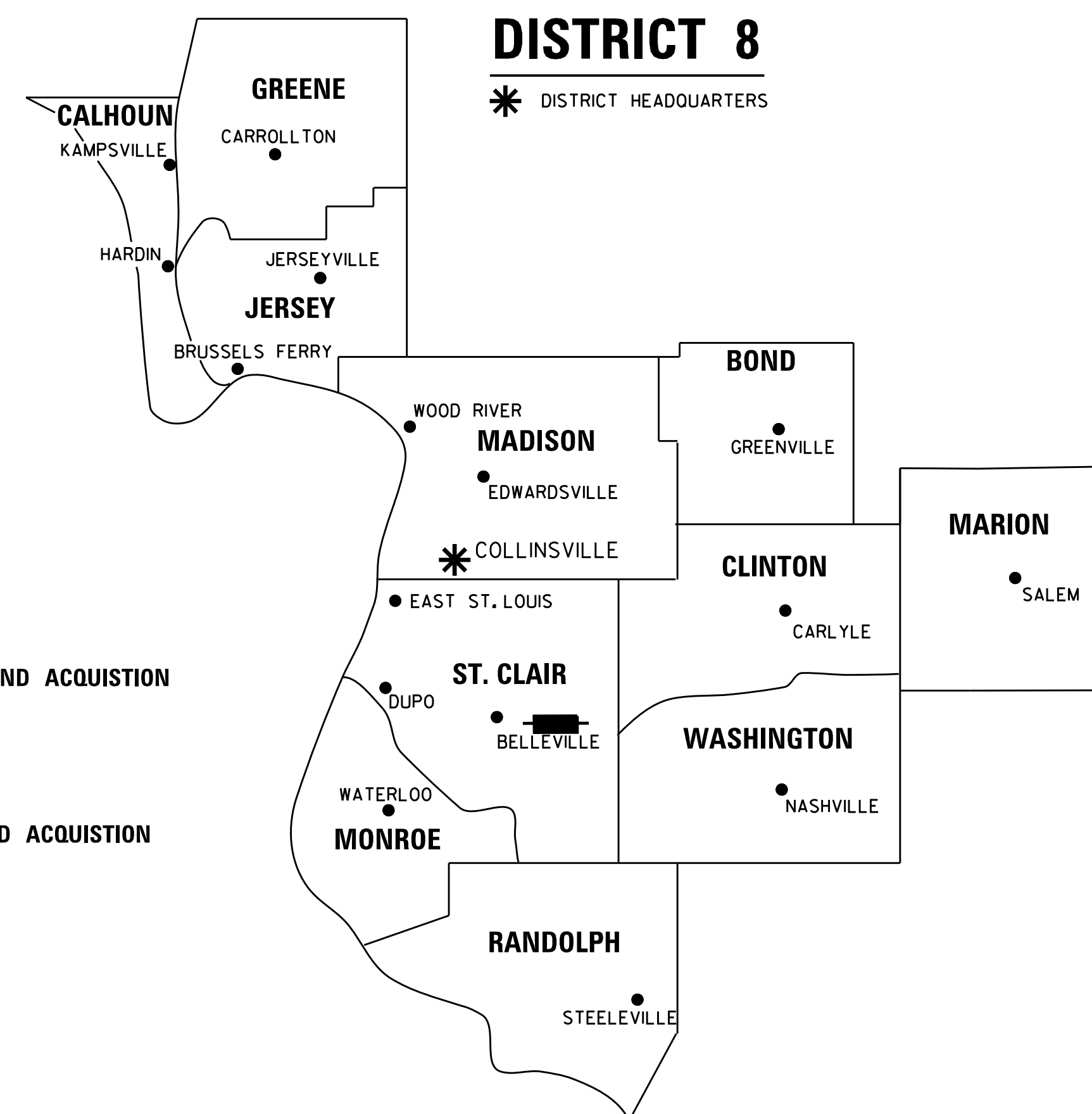
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28,29-N-1	ST. CLAIR	41	16
CONTRACT NO. 76J88				
ILLINOIS FED. AID PROJECT				

RECEIVED: 06-08-17

SPACE RESERVED FOR RECORDING OFFICER

SHEET INDEX		
SHEET NO.	STATION to STATION	DESCRIPTION
1	N/A	COVER
2	N/A	LEGEND/NOTES
3	281+20.98 TO 293+50	PLAT OF HIGHWAYS
4	288+00 TO 298+50	PLAT OF HIGHWAYS
5	N/A	TOTAL HOLDING SKETCH
6	N/A	TOTAL HOLDING SKETCH
7	N/A	CONTROL POINT/SECTION CORNER TIES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLAT OF HIGHWAYS
FAP ROUTE 9251 (IL 158/L 177)
SECTION 28,29-N-1
ST CLAIR COUNTY
JOB NO.
R-98-005-17



PROJECT LENGTH = 1635 LIN. FT. = 0.31 MILE

PREPARED BY:



SHERRILL ASSOCIATES, INC.
Engineers - Surveyors - Planners
 Professional Design Firm Number 184-001238
 316 North Main Street Tel: 618-656-9251
 Edwardsville, IL 62025 Fax: 618-656-9496



GREGORY S. McVICAR, PLS NO. 3512
 LICENSE EXPIRATION DATE: 11/30/2018

SHEET 1 OF 7

ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINSVILLE, ILLINOIS 62234-6198				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28,29-N-1	ST CLAIR	41	17
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 76J88	

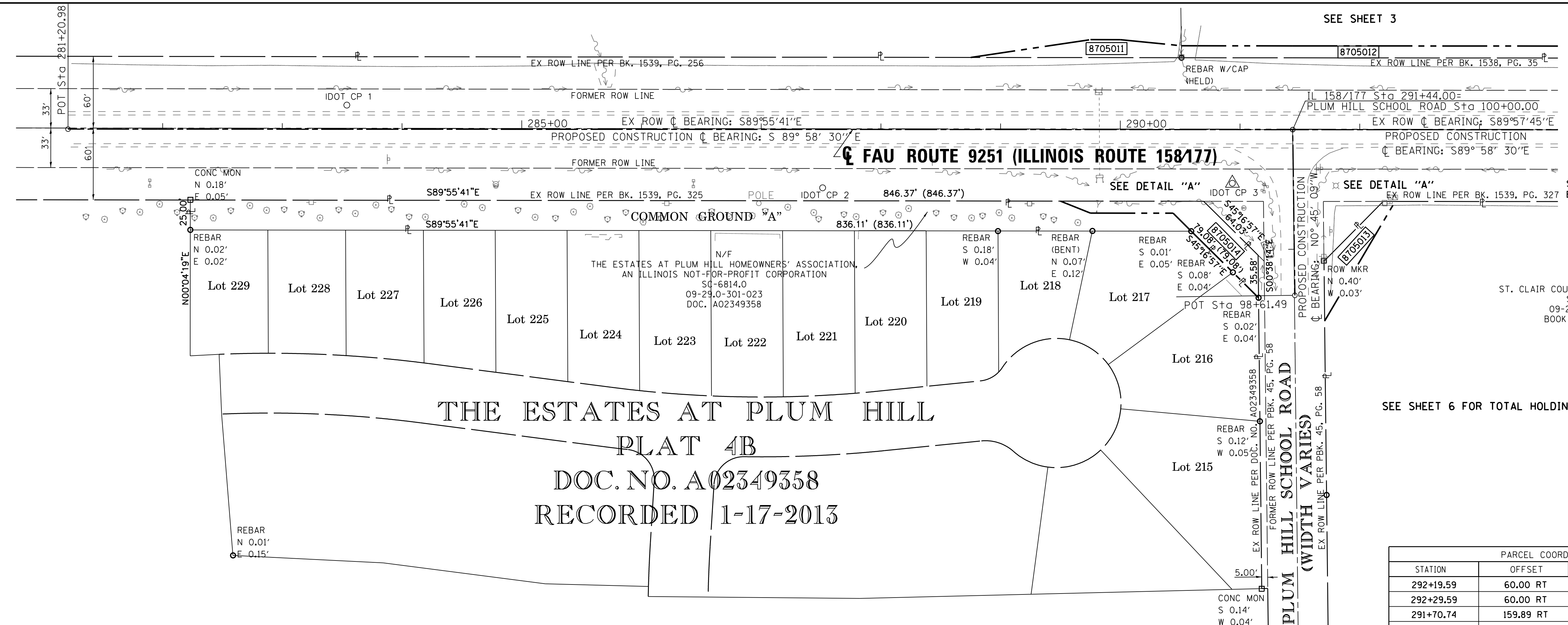
SEE SHEET 3



RECEIVED: 11-07-17

SPACE RESERVED FOR RECORDING OFFICER

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

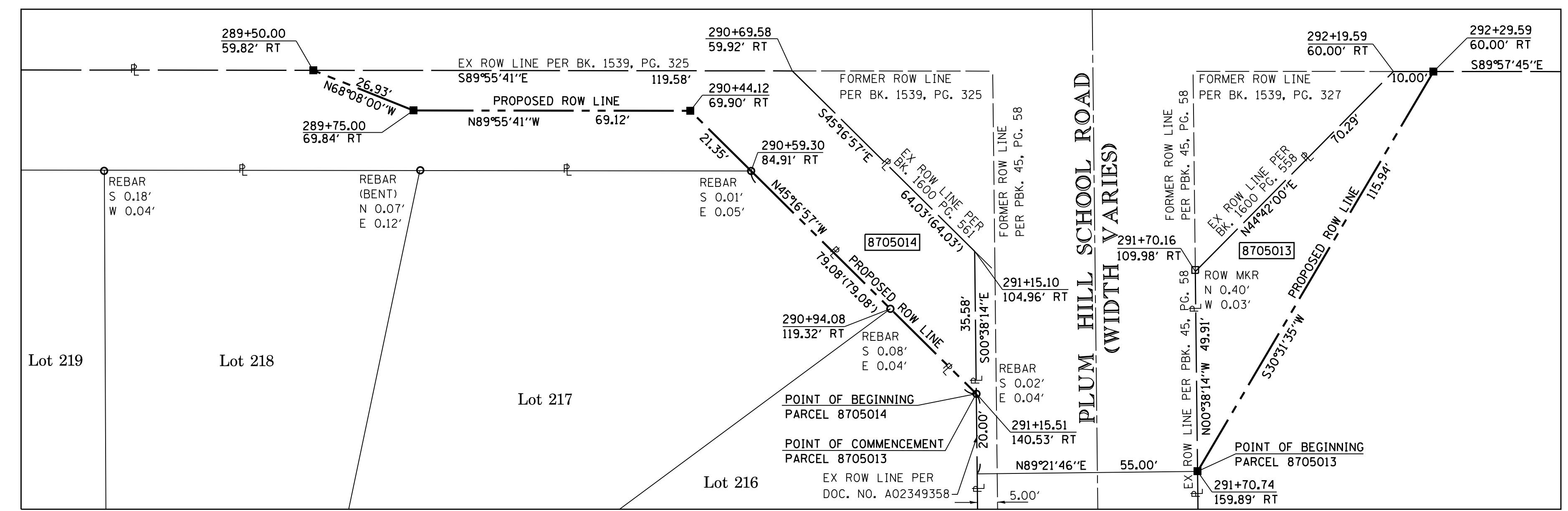


THE ESTATES AT PLUM HILL
PLAT 4B
DOC. NO. A02349358
RECORDED 1-17-2013

SEE SHEET 6 FOR TOTAL HOLDING

PARCEL COORDINATE TABLE			
STATION	OFFSET	NORTHING	EASTING
292+19.59	60.00 RT	669374.7889	371515.3340
292+29.59	60.00 RT	669374.7824	371525.3340
291+70.74	159.89 RT	669274.9150	371466.4454
291+70.16	109.98 RT	669324.8247	371465.8902
289+50.00	59.82 RT	669375.0815	371245.7481
289+75.00	69.84 RT	669365.0502	371270.7438
290+44.12	69.90 RT	669364.9635	371339.8643
290+59.30	84.91 RT	669349.9445	371355.0322
291+15.51	140.53 RT	669294.3020	371411.2263
291+15.10	104.96 RT	669329.8761	371410.8306
290+69.58	59.92 RT	669374.9316	371365.3284
290+94.08	119.32 RT	669315.5159	371389.8021

GROUND SURFACE COORDINATE SYSTEM				
PROJECT COORDINATES PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION				
Job No. D-98-072-16 / Contract No. 76J88				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
IDOT CP 1	283+53.86	20.16' LT	669455.3268	370649.6451
IDOT CP 2	287+51.34	48.78' RT	669386.2058	371047.0968
IDOT CP 3	290+93.59	44.82' RT	669390.0195	371389.3430



DETAIL "A"
SCALE: 1"=20'

STATE OF ILLINOIS)
) SS
COUNTY OF MADISON)

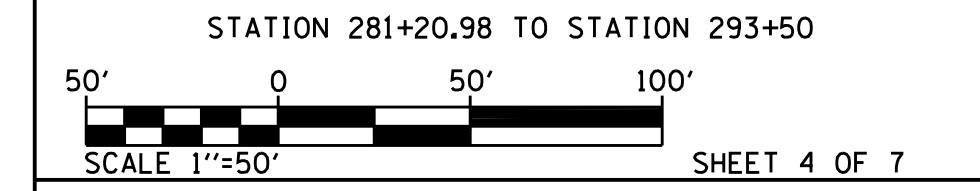
I, GREGORY S. McVICAR, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____
GREGORY S. McVICAR, PLS NO. 3512
LICENSE EXPIRATION DATE: 11/30/2018



SHERRILL ASSOCIATES, INC.
Engineers - Surveyors - Planners
Professional Design Firm Number 184-001238
316 North Main Street, Edwardsville, IL 62025
Tel. 618-656-9251, Fax 618-656-9496

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 9251 (IL 158/IL 177)
SECTION 28,29-N-1
ST CLAIR COUNTY
JOB NO. R-98-005-17



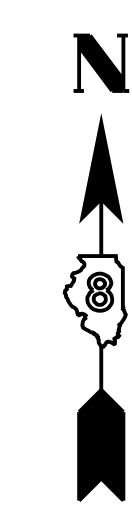
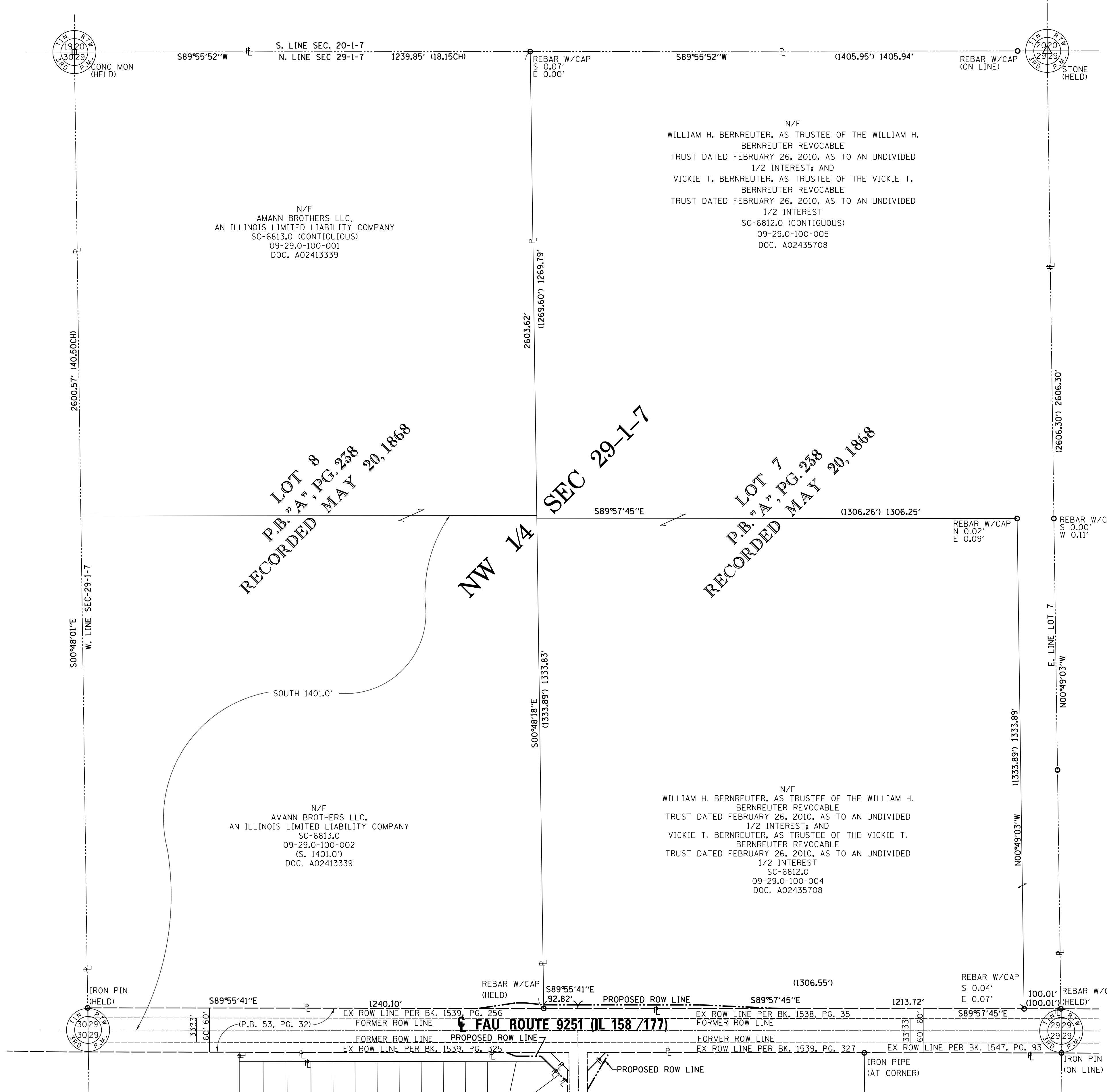
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28,29-N-1	ST. CLAIR	41	20
COMPLETION DATE OF FIELD WORK PERFORMED			CONTRACT NO. 76J88	
LAND SURVEY: MAY, 2015		ROW STAKING:		
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT				

* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION				REMAINDER ACRES	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			GROSS ACRES	SO. FT.	PREVIOUSLY DEDICATED ACRES	SO. FT.			
8705013	ST. CLAIR COUNTY SCHOLARSHIP TRUST FUND TITLE REPORT NO. SC-6815.0	43.127	0.0401	1,747	N/A	N/A	0.0401	1,747	43.0869 09-29.0-300-004 (MAP NO. 09-0)
8705014	THE ESTATES AT PLUM HILL HOMEOWNERS' ASSOCIATION, AN ILLINOIS NOT-FOR-PROFIT CORPORATION TITLE REPORT NO. SC-6814.0	0.5239	0.0688	2,999	N/A	N/A	0.0688	2,999	0.4551 09-29.0-301-023 (MAP NO. 09-29E)

PART OF THE NW 1/4 OF SEC 29, T 1 N, R 7 W, OF THE 3RD PM, ST CLAIR COUNTY



RECEIVED: 06-08-17

SPACE RESERVED FOR RECORDING OFFICER

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

STATE OF ILLINOIS)
) SS
 COUNTY OF MADISON)

I, GREGORY S. McVICAR, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREIN AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____

GREGORY S. McVICAR, PLS NO. 3512
 LICENSE EXPIRATION DATE: 11/30/2018



SHERRILL ASSOCIATES, INC.
 Engineers - Surveyors - Planners
 Professional Design Firm Number 184-001238
 316 North Main Street Tel. 618-656-9251
 Edwardsville, IL 62025 Fax 618-656-9496

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAU ROUTE 9251 (IL 158/IL 177)
 SECTION 28,29-N-1
 ST CLAIR COUNTY
 JOB NO. R-98-005-17

TOTAL HOLDING SKETCH

 SCALE: 1" = 150' SHEET 5 OF 7

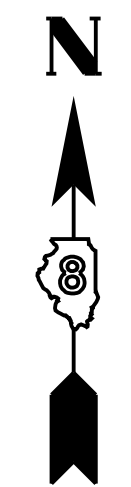
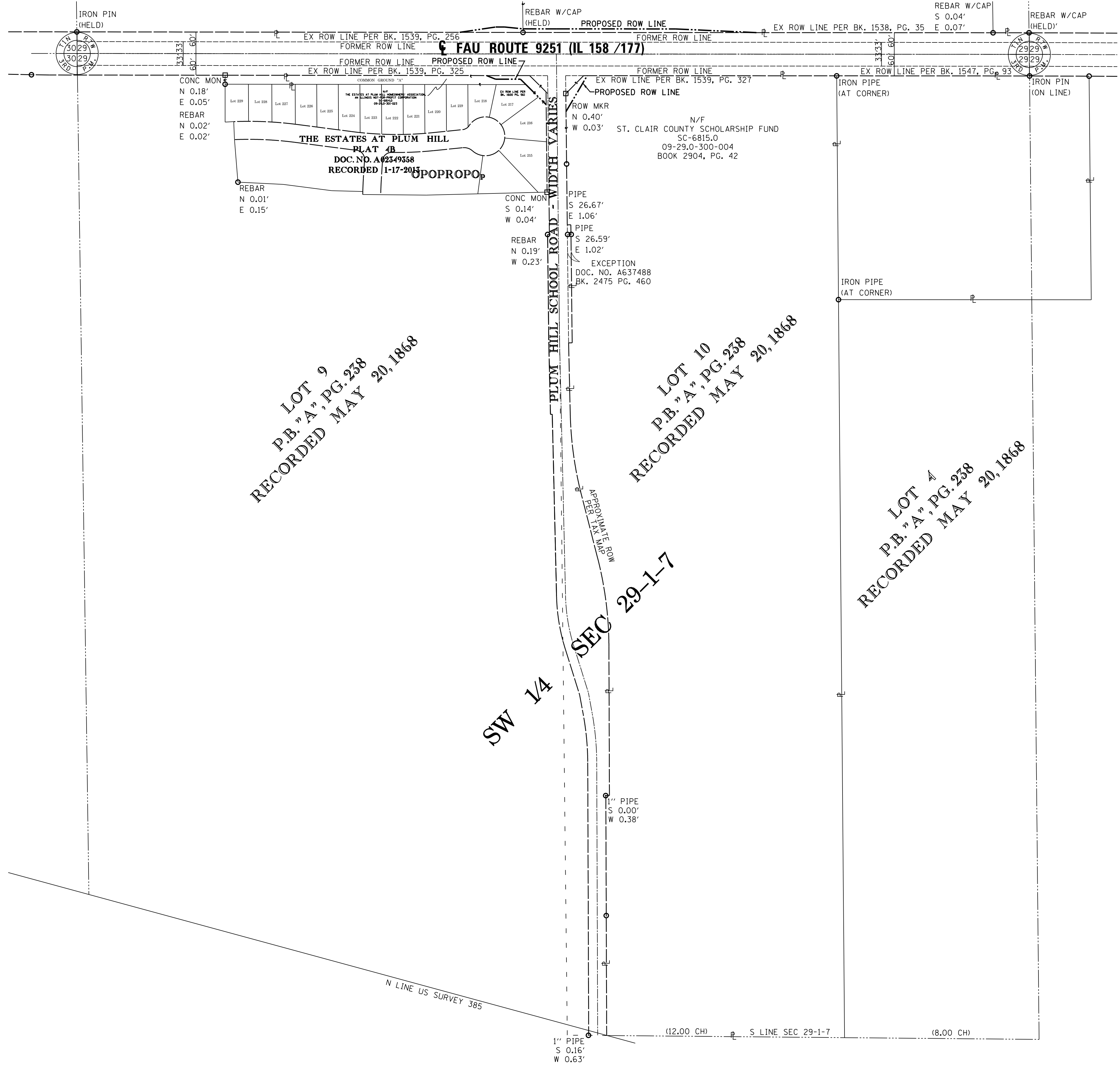
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
 1102 EASTPORT PLAZA DRIVE
 COLLINSVILLE, ILLINOIS 62234-6198

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28,29-N-1	ST CLAIR	41	21

CONTRACT NO. 76J88

COMPLETION DATE OF FIELD WORK PERFORMED
 LAND SURVEY: JANUARY, 2017 ROW STAKING:

PART OF THE SW 1/4 OF SEC 29, T 1 N, R 7 W, OF THE 3RD PM, ST CLAIR COUNTY



RECEIVED: 06-08-17

SPACE RESERVED FOR RECORDING OFFICER

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

STATE OF ILLINOIS)
) SS
 COUNTY OF MADISON)

I, GREGORY S. McVICAR, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, CERTIFY THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____

GREGORY S. McVICAR, PLS No. 3512
 LICENSE EXPIRATION DATE: 11/30/2018



LOT 9
 P.B. "A", PG. 238
 RECORDED MAY 20, 1868

LOT 10
 P.B. "A", PG. 238
 RECORDED MAY 20, 1868

LOT 4
 P.B. "A", PG. 238
 RECORDED MAY 20, 1868

SW 1/4
 SEC 29-1-7

SHERRILL ASSOCIATES, INC.
 Engineers - Surveyors - Planners
 Professional Design Firm Number 184-001238
 316 North Main Street Tel. 618-656-9251
 Edwardsville, IL 62025 Fax 618-656-9496

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAU ROUTE 9251 (IL 158/IL 177)
 SECTION 28,29-N-1
 ST CLAIR COUNTY
 JOB NO. R-98-005-17

TOTAL HOLDING SKETCH

 SCALE: 1" = 150' SHEET 6 OF 7

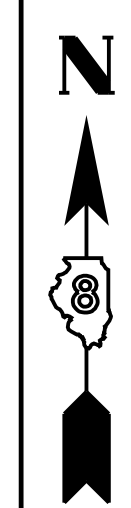
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
 1102 EASTPORT PLAZA DRIVE
 COLLINSVILLE, ILLINOIS 62234-6198

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28,29-N-1	ST CLAIR	41	22

CONTRACT NO. 76J88

COMPLETION DATE OF FIELD WORK PERFORMED _____
 LAND SURVEY: JANUARY, 2017 ROW STAKING:

CONTROL POINT AND SECTION CORNER TIE SHEET



RECEIVED: 06-08-17

SPACE RESERVED FOR RECORDING OFFICER

NW COR NW 1/4 SEC 29, T.1 N., R. 7 W. ---/---/--- MONUMENT RECORD DOC. NO. --- N=, E=	NE COR NW 1/4 SEC 29, T.1 N., R. 7 W. ---/---/--- MONUMENT RECORD DOC. NO. --- N=, E=
---	---

STATE OF ILLINOIS)
) SS
 COUNTY OF MADISON)

I, GREGORY S. McVICAR, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____

GREGORY S. McVICAR, PLS NO. 3512
 LICENSE EXPIRATION DATE: 11/30/2018



IDOT CONTROL POINT NO. 1 N=, E=	IDOT CONTROL POINT NO. 2 N=, E=	IDOT CONTROL POINT NO. 3 N=, E=	
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SA SHERRILL ASSOCIATES, INC.
Engineers - Surveyors - Planners
 Professional Design Firm Number 184-001238
 316 North Main Street Tel. 618-656-9251
 Edwardsville, IL 62025 Fax 618-656-9251

COMPLETION DATE OF FIELD WORK PERFORMED
 LAND SURVEY: JANUARY, 2017 ROW STAKING:

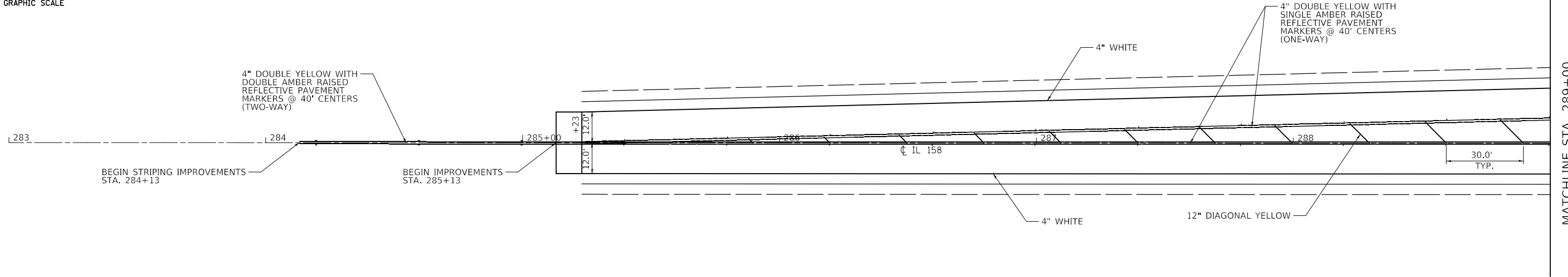
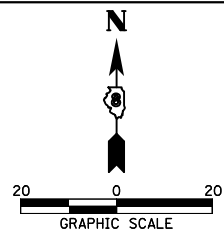
ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAU ROUTE 9251 (IL 158/IL 177)
 SECTION 28,29-N-1
 ST CLAIR COUNTY
 JOB NO. R-98-005-17
 CONTROL POINT AND SECTION CORNER TIE SHEET

NOT TO SCALE SHEET 7 OF 7

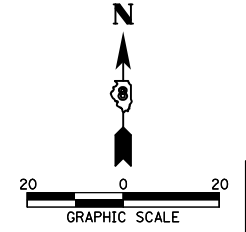
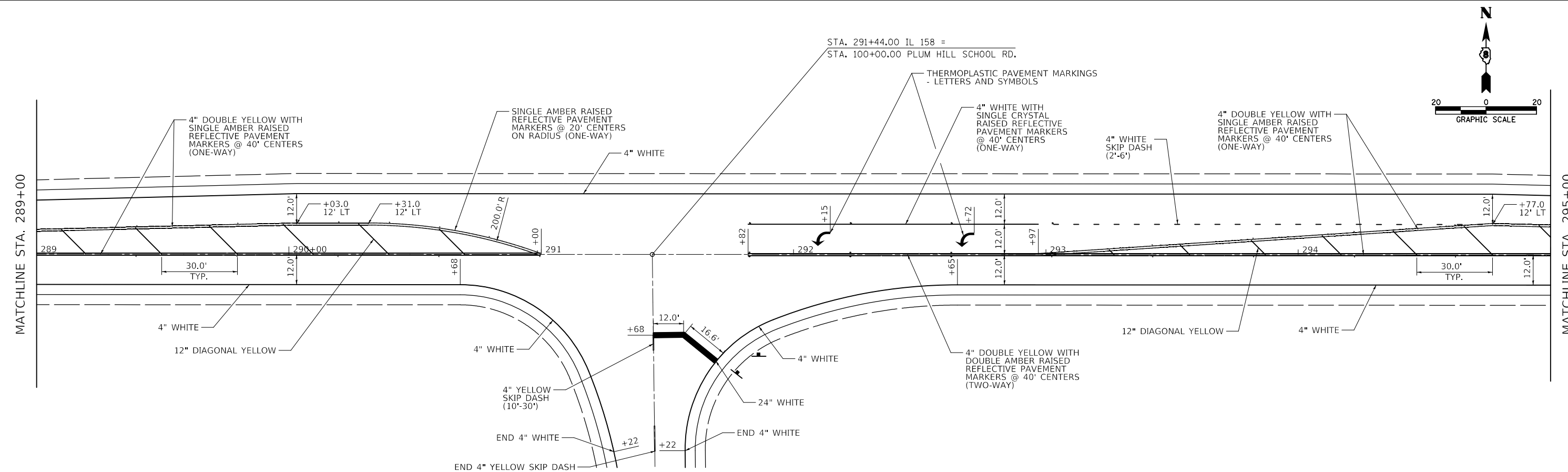
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
 1102 EASTPORT PLAZA DRIVE
 COLLINSVILLE, ILLINOIS 62234-6198

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28,29-N-1	ST. CLAIR	41	23
CONTRACT NO. 76J88				

FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT



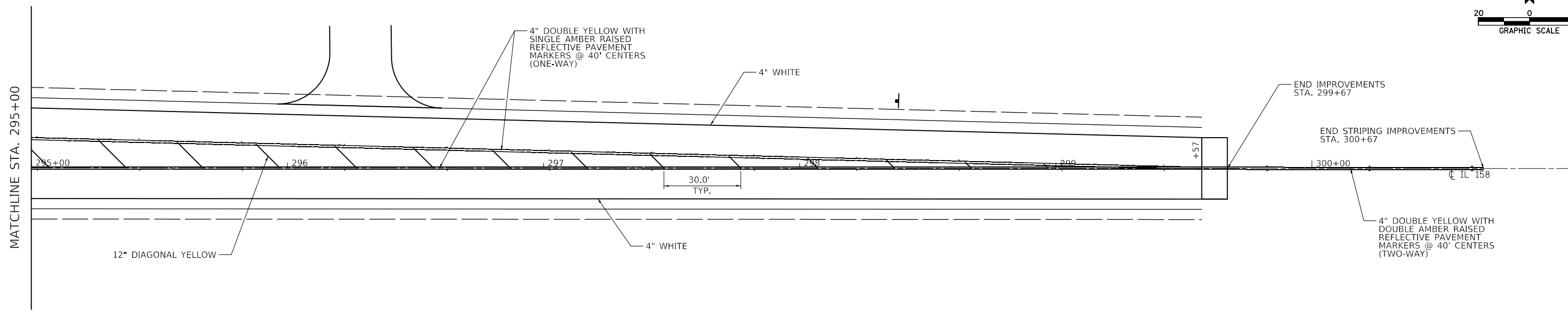
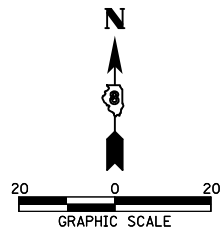
MATCHLINE STA. 289+00



MATCHLINE STA. 289+00

MATCHLINE STA. 295+00

FILE NAME =	USER NAME = freimthpd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING DETAILS				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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\$MODELNAME\$	PLotted DATE = 12/20/2017	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.				CONTRACT NO. 76J88				
ILLINOIS FED. AID PROJECT													



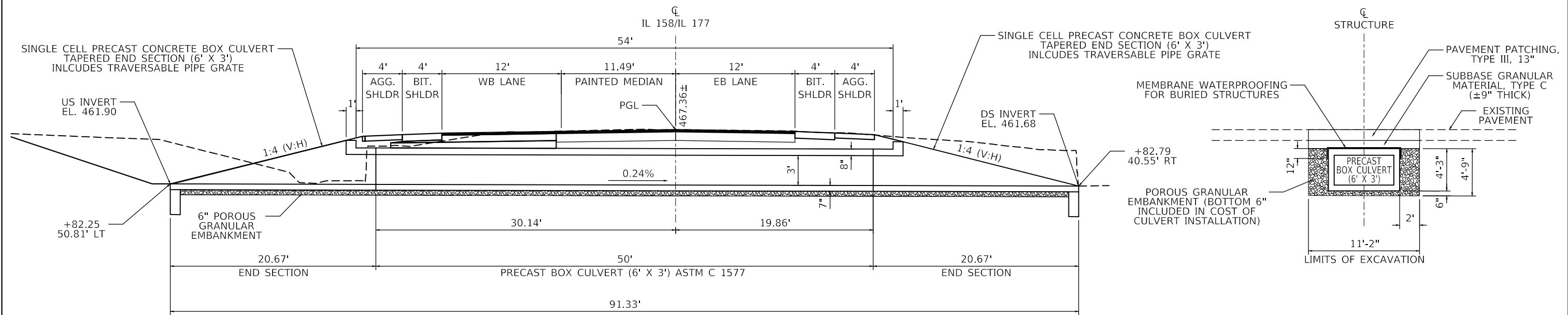
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MODELNAME	PLOT DATE = 12/20/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

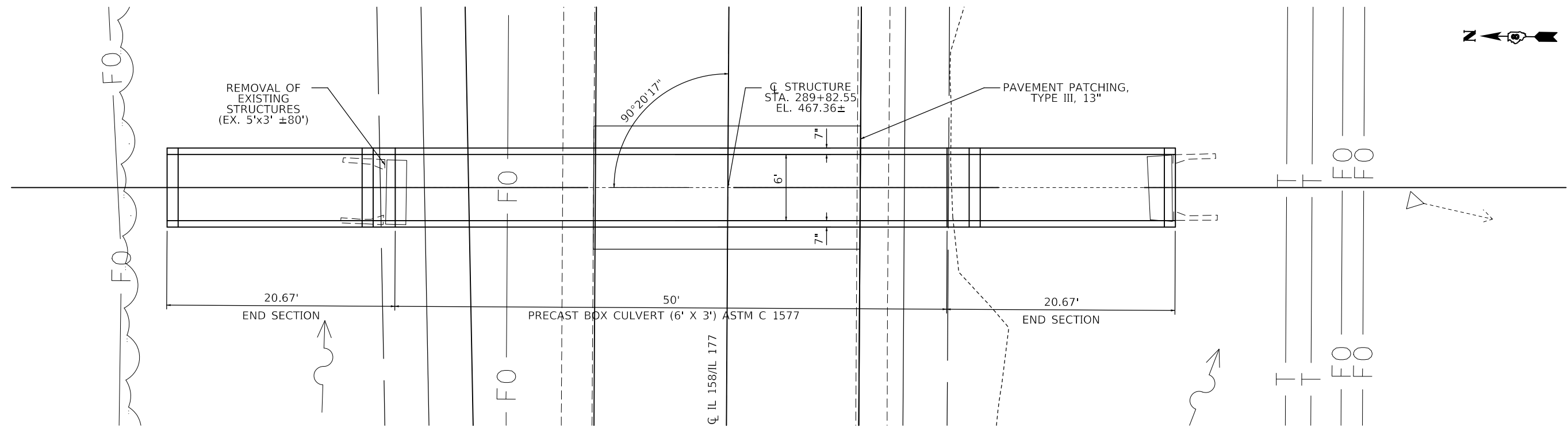
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9251	28,29-N-1	ST. CLAIR	41	26
CONTRACT NO. 76J88				
ILLINOIS FED. AID PROJECT				



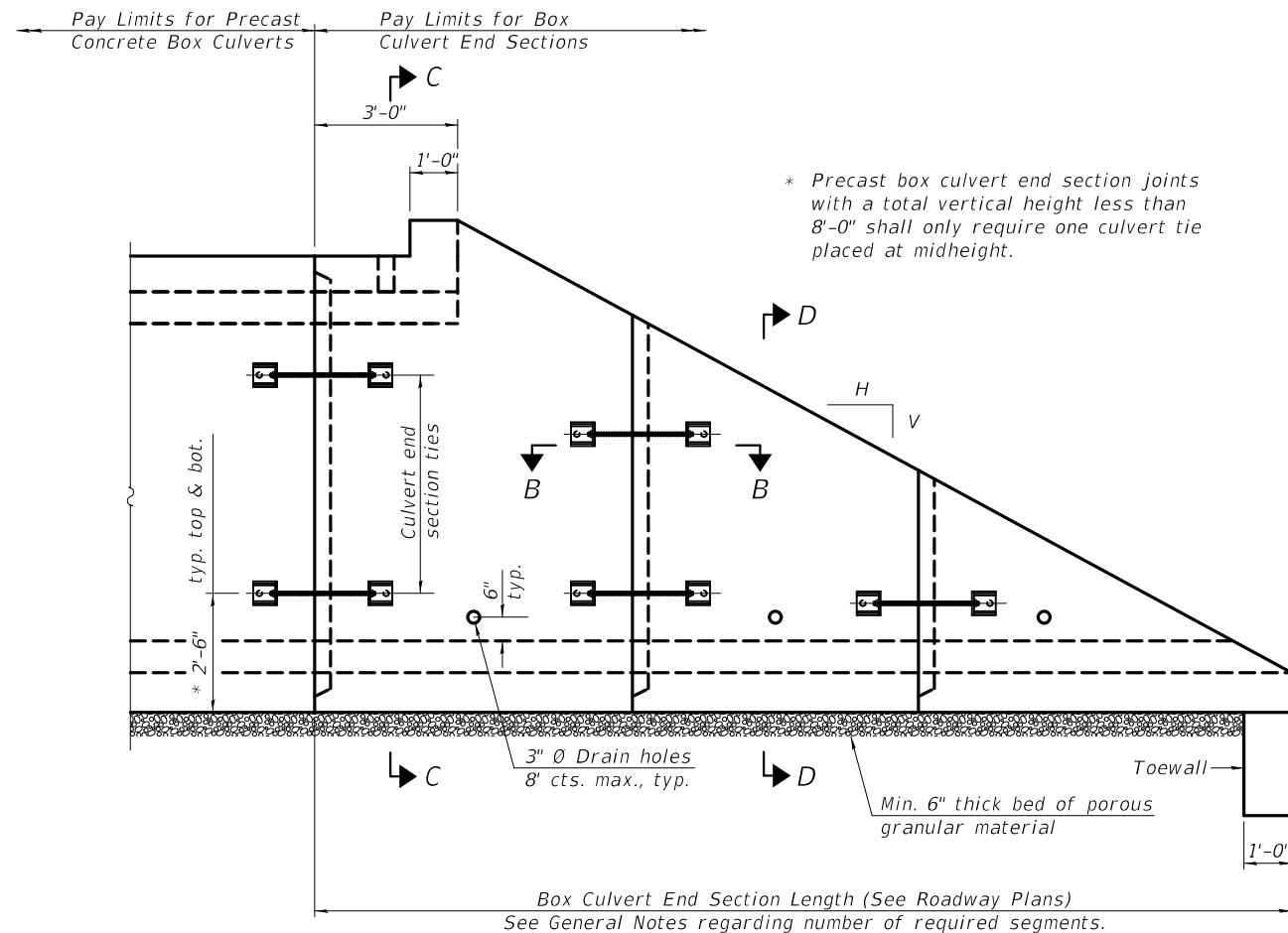
LONGITUDINAL SECTION
(LOOKING EAST)

CROSS SECTION
(LOOKING NORTH)

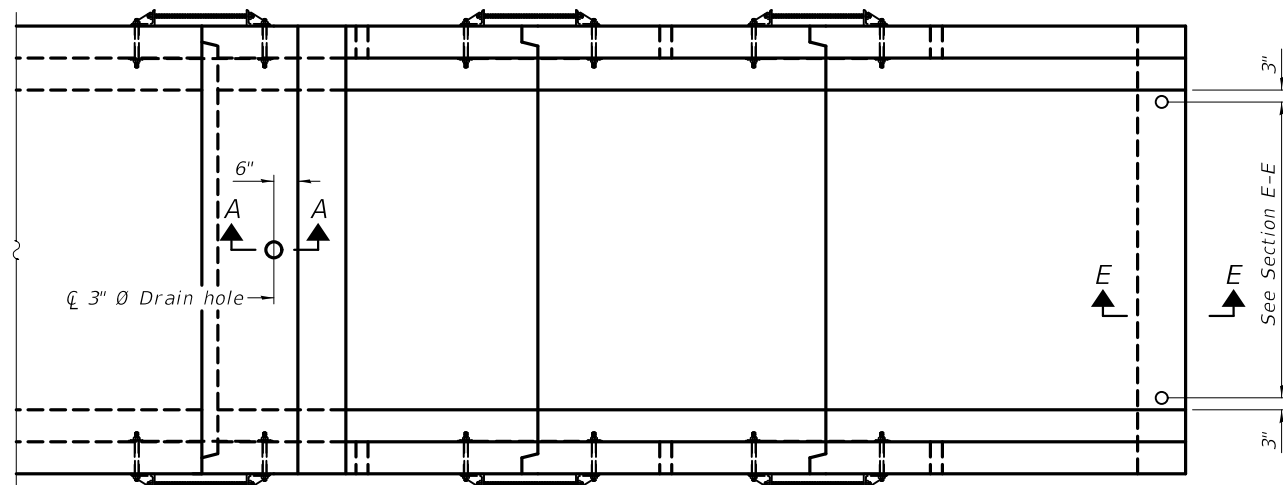
PRECAST BOX CULVERT SCHEDULE (ASTM C 1577)					
STATION	SIZE (SPAN x HEIGHT)	SKEW	DESIGN FILL (FT)		PGE BACKFILL REQUIRED
			EDGE OF SHLDR. (MINIMUM)	MAXIMUM	
289+82.55	6' x 3'	0°20'17"	1'-4"	1'-11"	YES



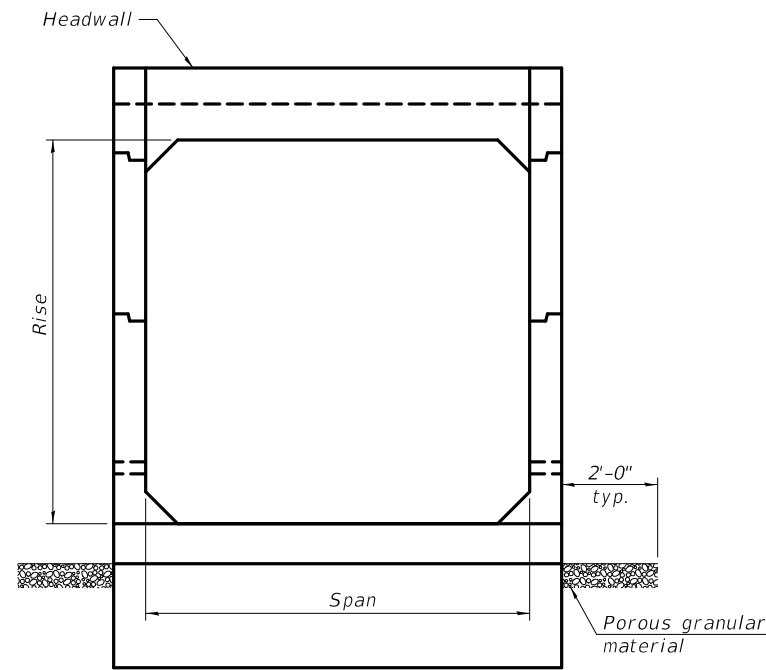
PLAN



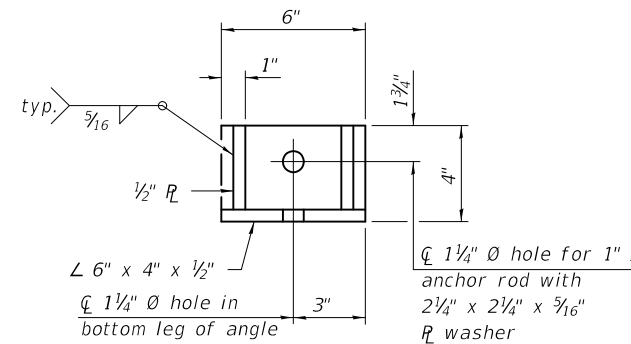
ELEVATION



PLAN



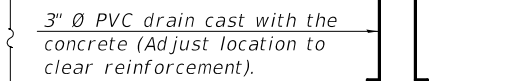
END VIEW



RESTRAINT ANGLE DETAIL

12" x 12" x 6" 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.



SECTION A-A

(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.) (Sheet 1 of 2)

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. This work will be measured for payment as each, with each end of each culvert being one each. End sections 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 Box Culvert End Sections 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 Elevation is for example only. Length and number of precast box sections required to construct Box Culvert End Sections shall be determined by the Contractor.

See roadway plans for embankment slope (V:H).

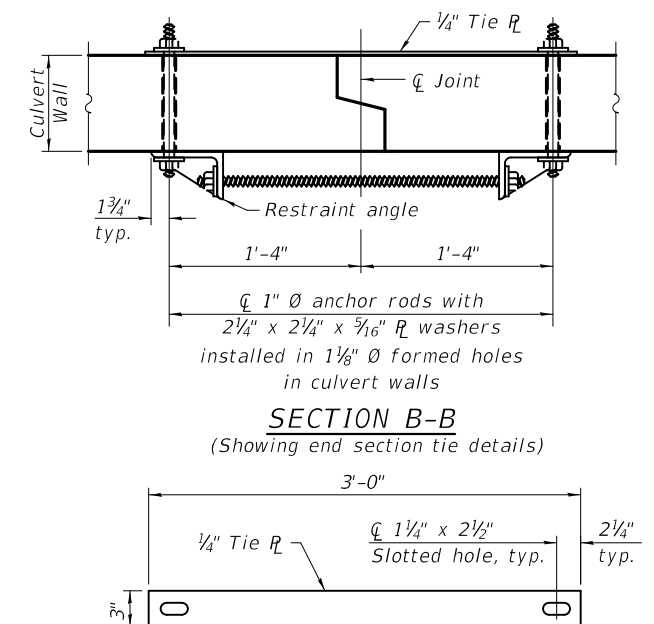
1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according 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. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

All costs associated with furnishing and installing or constructing the 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.

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 end sections with traversable pipe grate systems, see grate detail sheet for required modifications.



TIE PLATE DETAIL

SCB-TES

2-17-2017

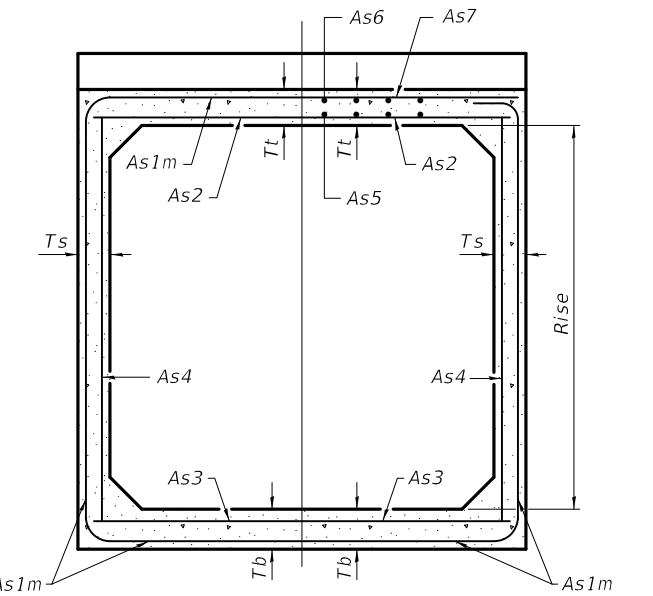
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#MODELNAME#	PLOT DATE = 12/20/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SINGLE CELL PRECAST BOX CULVERT TAPERED END SECTIONS
STRUCTURE NO.**

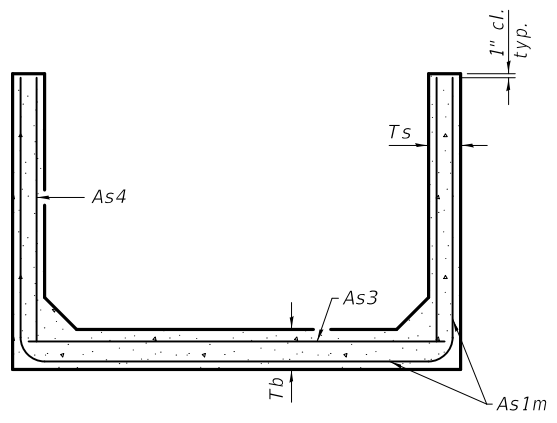
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28,29-N-1	ST. CLAIR	41	28
CONTRACT NO. 76J88				
ILLINOIS FED. AID PROJECT				

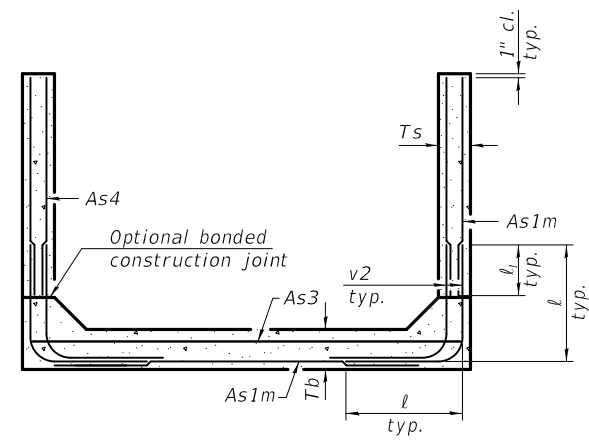


(Design Earth Cover \geq 2 ft) (Design Earth Cover < 2 ft)

SECTION C-C



SECTION D-D



ALTERNATE SECTION D-D

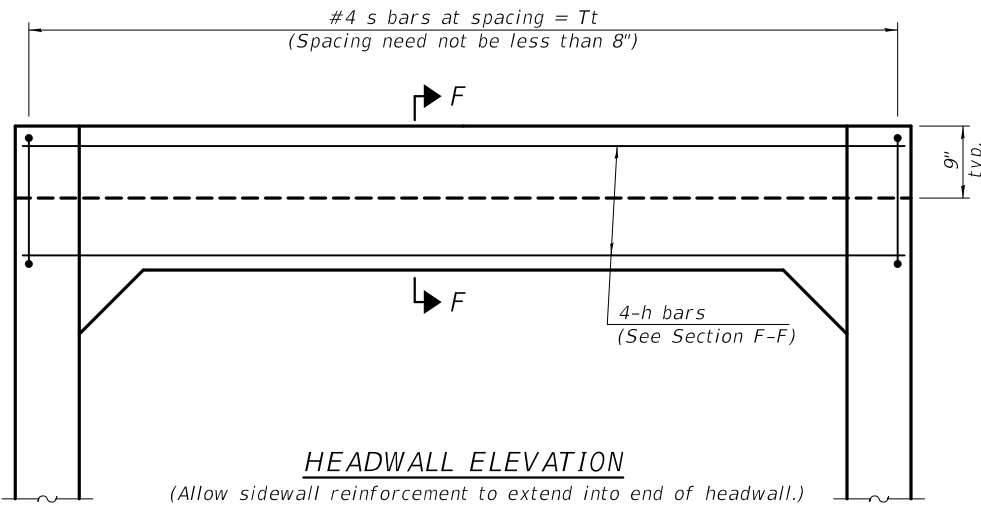
As1m REINFORCEMENT											
(in. ² / ft)											
Rise (ft)	2	3	4	5	6	7	8	9	10	11	12
4	0.19	0.17									
5	0.26	0.21	0.18								
6	0.22	0.26	0.23	0.22							
7	0.25	0.33	0.59	0.27	0.28						
8	0.40	0.35	0.43	0.39	0.36	0.34	0.40				
9	0.44	0.39	0.35	0.43	0.40	0.37	0.36	0.48			
10	0.48	0.42	0.38	0.47	0.44	0.41	0.38	0.42	0.56		
11	0.52	0.45	0.54	0.50	0.46	0.44	0.41	0.46	0.50	0.65	
12	0.55	0.49	0.58	0.54	0.50	0.48	0.45	0.46	0.46	0.61	0.75

(As1m reinforcement based upon welded wire reinforcement conforming to AASHTO M 55 or M 221).

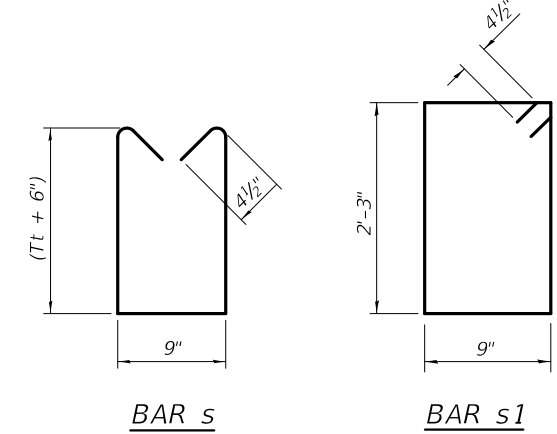
l₁ DIMENSION

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

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 bars shall provide a minimum reinforcement area along each face of the walls (in.²/ft.) equal to 1.10*(As1m). v2 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.



HEADWALL ELEVATION



BAR s

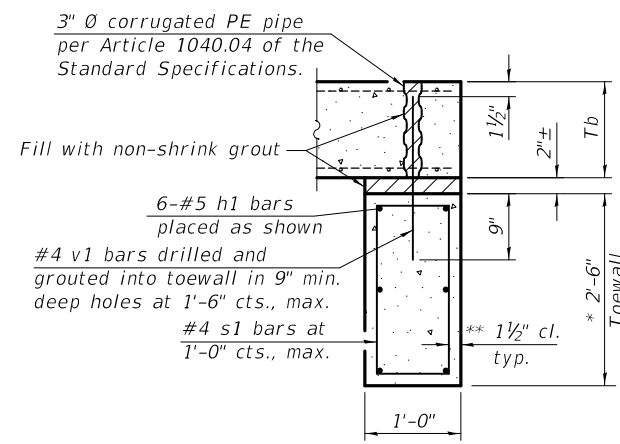
BAR s1

TOEWALL CONSTRUCTION SEQUENCE

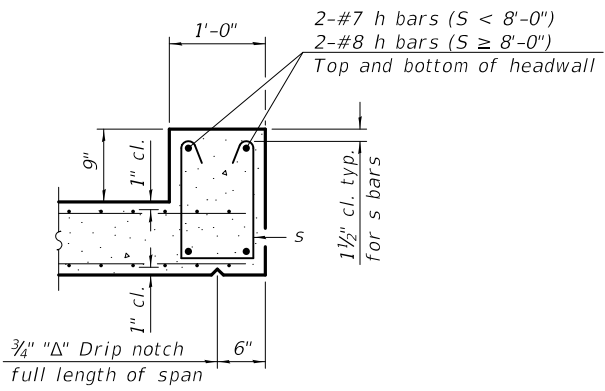
1. Perform excavation and construct toewall.
2. Backfill according to the applicable paragraphs of Article 502.10 of the Standard Specifications and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance 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.



SECTION E-E



SECTION F-F

(Sheet 2 of 2)

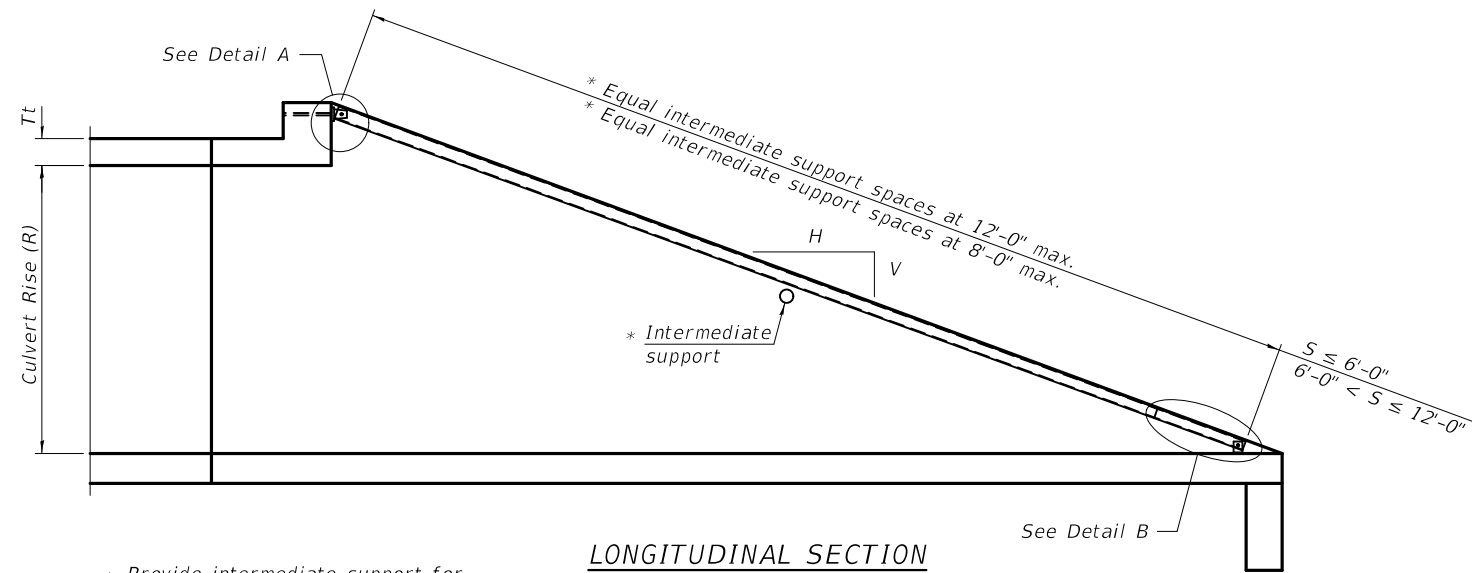
SCB-TES

2-17-2017

FILE NAME =	USER NAME = freimthpd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SINGLE CELL PRECAST BOX CULVERT TAPERED END SECTIONS STRUCTURE NO.	F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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MODELNAME	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 76J88					
	PLOT DATE = 12/20/2017	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

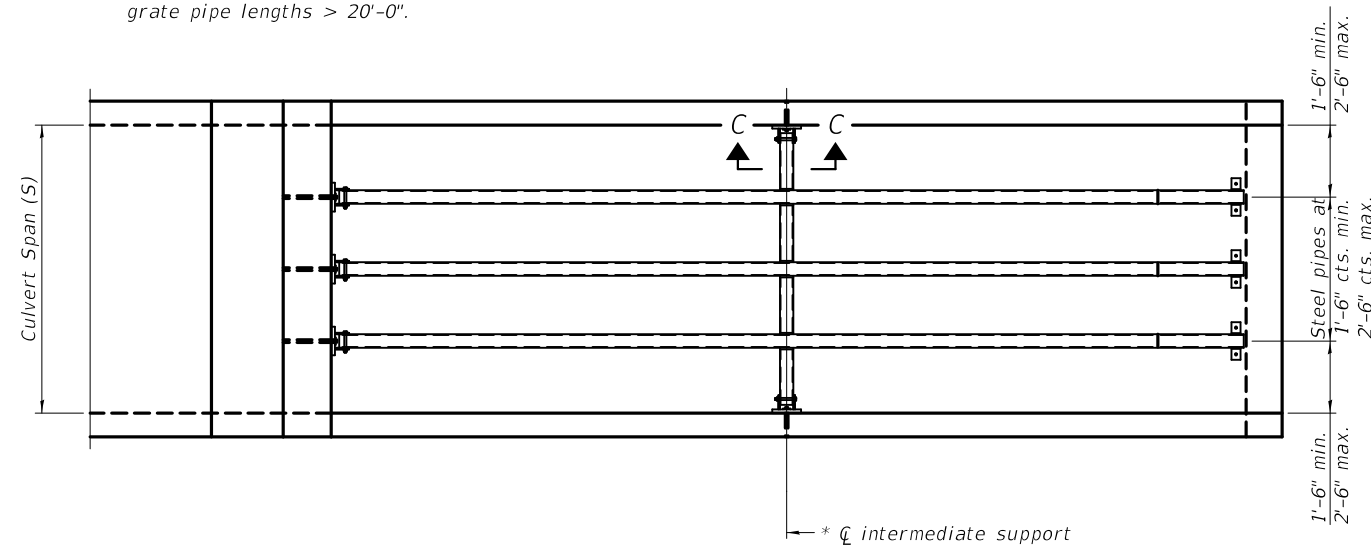
GENERAL NOTES

The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 1½" unless noted otherwise.
 This standard shall only be used on concrete end sections not skewed more than ±15 degrees with roadway.
 The Contractor may install the thru bolts using drilling and grouting in lieu of providing a formed hole using steel pipe. Installation shall be in accordance with Article 509.06 using a method that results in the annulus surrounding the bolt being completely filled with adhesive. The method of drilling shall not result in spalled concrete at the exit face. Epoxy grouted thru bolts shall be snug tightened followed by an additional ½ turn on the interior nut at final installation. Cost included with Traversable Pipe Grate.

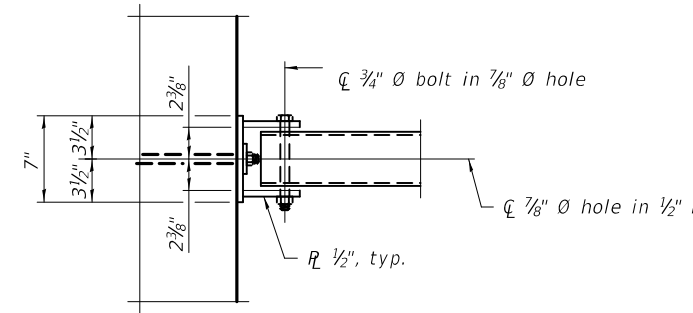


LONGITUDINAL SECTION

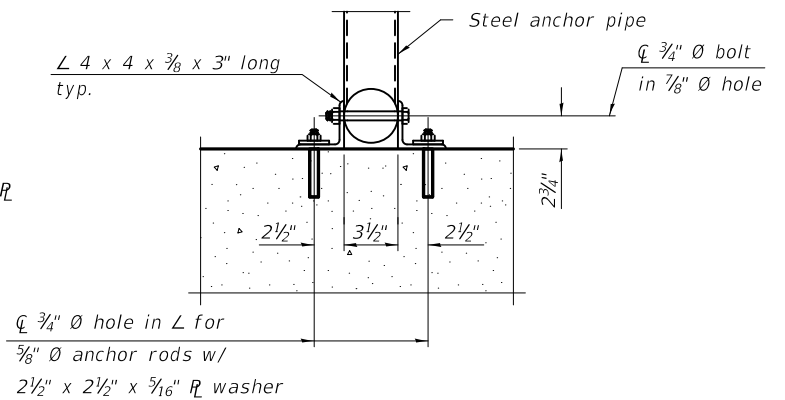
* Provide intermediate support for grate pipe lengths > 20'-0".



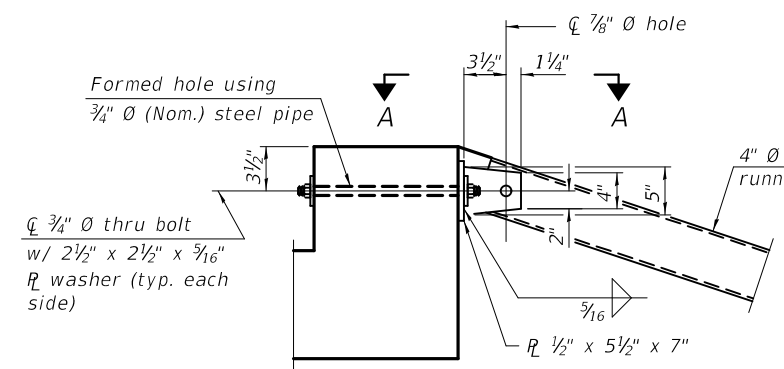
PLAN VIEW



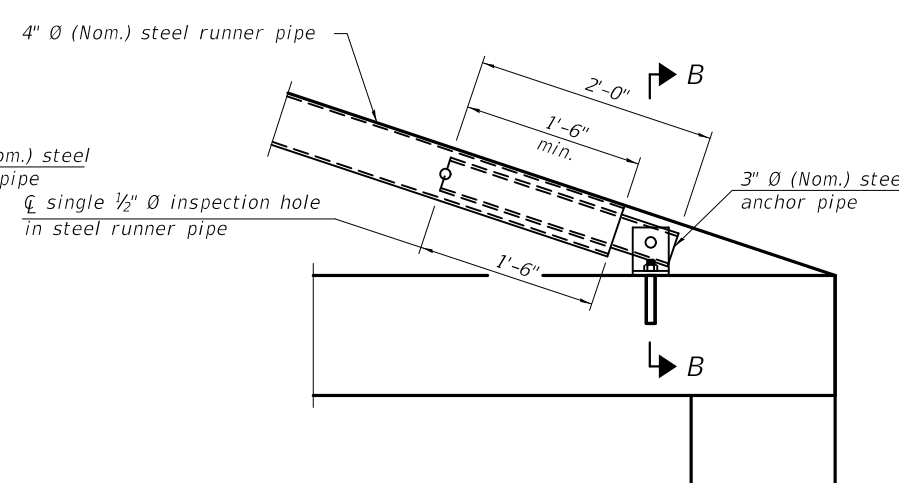
VIEW A-A



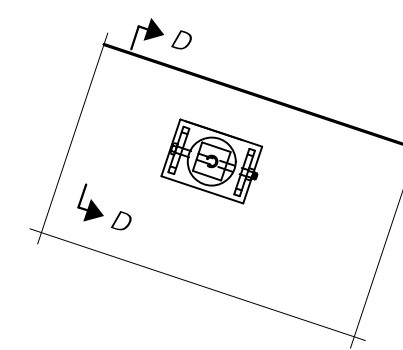
SECTION B-B



DETAIL A

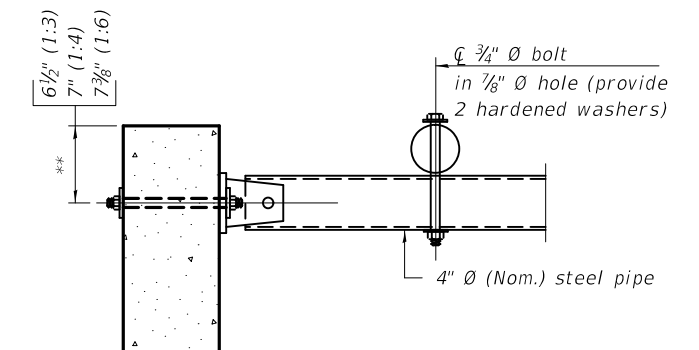


DETAIL B



VIEW C-C

(See Detail A for dimensions and details not shown.)



SECTION D-D

** Measured perpendicular to top of culvert wall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert end section.

TPGBC-ZS

2-17-2017

(Sheet 1 of 2)

FILE NAME =	USER NAME = freimthpd	DESIGNED -	REVISED -
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		DATE -	REVISED -
MODELNAME	PLOT DATE = 12/20/2017		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAVERSABLE PIPE GRATE FOR BOX CULVERTS
STRUCTURE NO.**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28,29-N-1	ST. CLAIR	41	30
CONTRACT NO. 76J88				
ILLINOIS FED. AID PROJECT				

PIPE-GRATE SCHEDULE FOR BOX CULVERT END SECTIONS

Precast Box Culvert Dimensions			Slope of End Section								
			1:3			1:4			1:6		
S (ft)	R (ft)	Tt (in)	Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe	Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe	Main Pipe No. / Length	Int. Support No. / Length	Total Length of Pipe
4	2	7.5	1 @ 8'-10"	N/A	8'-10"	1 @ 11'-7"	N/A	11'-7"	1 @ 17'-2"	N/A	17'-2"
4	2	5	1 @ 8'-2"	N/A	8'-2"	1 @ 10'-8"	N/A	10'-8"	1 @ 15'-11"	N/A	15'-11"
4	3	7.5	1 @ 12'-0"	N/A	12'-0"	1 @ 15'-8"	N/A	15'-8"	1 @ 23'-3"	1 @ 3'-7"	26'-10"
4	3	5	1 @ 11'-4"	N/A	11'-4"	1 @ 14'-10"	N/A	14'-10"	1 @ 22'-0"	1 @ 3'-7"	25'-7"
4	4	7.5	1 @ 15'-2"	N/A	15'-2"	1 @ 19'-10"	1 @ 3'-7"	23'-5"	1 @ 29'-4"	2 @ 3'-7"	36'-6"
4	4	5	1 @ 14'-6"	N/A	14'-6"	1 @ 18'-11"	N/A	18'-11"	1 @ 28'-1"	2 @ 3'-7"	35'-3"
5	2	8	1 @ 8'-11"	N/A	8'-11"	1 @ 11'-9"	N/A	11'-9"	1 @ 17'-5"	N/A	17'-5"
5	2	6	1 @ 8'-5"	N/A	8'-5"	1 @ 11'-1"	N/A	11'-1"	1 @ 16'-5"	N/A	16'-5"
5	3	8	1 @ 12'-1"	N/A	12'-1"	1 @ 15'-10"	N/A	15'-10"	1 @ 23'-6"	1 @ 4'-7"	28'-1"
5	3	6	1 @ 11'-7"	N/A	11'-7"	1 @ 15'-2"	N/A	15'-2"	1 @ 22'-6"	1 @ 4'-7"	27'-1"
5	4	8	1 @ 15'-3"	N/A	15'-3"	1 @ 20'-0"	1 @ 4'-7"	24'-7"	1 @ 29'-7"	2 @ 4'-7"	38'-9"
5	4	6	1 @ 14'-9"	N/A	14'-9"	1 @ 19'-3"	N/A	19'-3"	1 @ 28'-7"	2 @ 4'-7"	37'-9"
5	5	8	1 @ 18'-5"	N/A	18'-5"	1 @ 24'-1"	2 @ 4'-7"	33'-3"	1 @ 35'-8"	3 @ 4'-7"	49'-5"
5	5	6	1 @ 17'-11"	N/A	17'-11"	1 @ 23'-5"	1 @ 4'-7"	28'-0"	1 @ 34'-8"	2 @ 4'-7"	43'-10"
6	2	8	2 @ 8'-11"	N/A	17'-10"	2 @ 11'-9"	N/A	23'-6"	2 @ 17'-5"	N/A	34'-10"
6	2	7	2 @ 8'-8"	N/A	17'-4"	2 @ 11'-5"	N/A	22'-10"	2 @ 16'-11"	N/A	33'-10"
6	3	8	2 @ 12'-1"	N/A	24'-2"	2 @ 15'-10"	N/A	31'-8"	2 @ 23'-6"	1 @ 5'-7"	52'-7"
6	3	7	2 @ 11'-10"	N/A	23'-8"	2 @ 15'-6"	N/A	31'-0"	2 @ 23'-0"	1 @ 5'-7"	51'-7"
6	4	8	2 @ 15'-3"	N/A	30'-6"	2 @ 20'-0"	1 @ 5'-7"	45'-7"	2 @ 29'-7"	2 @ 5'-7"	70'-4"
6	4	7	2 @ 15'-0"	N/A	30'-0"	2 @ 19'-8"	1 @ 5'-7"	44'-11"	2 @ 29'-1"	2 @ 5'-7"	69'-4"
6	5	8	2 @ 18'-5"	N/A	36'-10"	2 @ 24'-1"	2 @ 5'-7"	59'-4"	2 @ 35'-8"	3 @ 5'-7"	88'-1"
6	5	7	2 @ 18'-2"	N/A	36'-4"	2 @ 23'-9"	2 @ 5'-7"	58'-8"	2 @ 35'-2"	2 @ 5'-7"	81'-6"
6	6	8	2 @ 21'-7"	1 @ 5'-7"	48'-9"	2 @ 28'-3"	2 @ 5'-7"	67'-8"	2 @ 41'-9"	3 @ 5'-7"	100'-3"
6	6	7	2 @ 21'-4"	1 @ 5'-7"	48'-3"	2 @ 27'-11"	2 @ 5'-7"	67'-0"	2 @ 41'-3"	3 @ 5'-7"	99'-3"
7	2	8	2 @ 8'-11"	N/A	17'-10"	2 @ 11'-9"	N/A	23'-6"	2 @ 17'-5"	N/A	34'-10"
7	3	8	2 @ 12'-1"	N/A	24'-2"	2 @ 15'-10"	N/A	31'-8"	2 @ 23'-6"	2 @ 6'-7"	60'-2"
7	4	8	2 @ 15'-3"	N/A	30'-6"	2 @ 20'-0"	2 @ 6'-7"	53'-2"	2 @ 29'-7"	3 @ 6'-7"	78'-11"
7	5	8	2 @ 18'-5"	N/A	36'-10"	2 @ 24'-1"	3 @ 6'-7"	67'-11"	2 @ 35'-8"	4 @ 6'-7"	97'-8"
7	6	8	2 @ 21'-7"	2 @ 6'-7"	56'-4"	2 @ 28'-3"	3 @ 6'-7"	76'-3"	2 @ 41'-9"	5 @ 6'-7"	116'-5"
7	7	8	2 @ 24'-9"	3 @ 6'-7"	69'-3"	2 @ 32'-4"	4 @ 6'-7"	91'-0"	2 @ 47'-10"	6 @ 6'-7"	135'-2"
8	2	8	3 @ 8'-11"	N/A	26'-9"	3 @ 11'-9"	N/A	35'-3"	3 @ 17'-5"	N/A	52'-3"
8	3	8	3 @ 12'-1"	N/A	36'-3"	3 @ 15'-10"	N/A	47'-6"	3 @ 23'-6"	2 @ 7'-7"	85'-8"
8	4	8	3 @ 15'-3"	N/A	45'-9"	3 @ 20'-0"	2 @ 7'-7"	75'-2"	3 @ 29'-7"	3 @ 7'-7"	111'-6"
8	5	8	3 @ 18'-5"	N/A	55'-3"	3 @ 24'-1"	3 @ 7'-7"	95'-0"	3 @ 35'-8"	4 @ 7'-7"	137'-4"
8	6	8	3 @ 21'-7"	2 @ 7'-7"	79'-11"	3 @ 28'-3"	3 @ 7'-7"	107'-6"	3 @ 41'-9"	5 @ 7'-7"	163'-2"
8	7	8	3 @ 24'-9"	3 @ 7'-7"	97'-0"	3 @ 32'-4"	4 @ 7'-7"	127'-4"	3 @ 47'-10"	6 @ 7'-7"	189'-0"
8	8	8	3 @ 27'-11"	3 @ 7'-7"	106'-6"	3 @ 36'-6"	4 @ 7'-7"	139'-10"	3 @ 53'-11"	6 @ 7'-7"	207'-3"
9	2	9	3 @ 9'-3"	N/A	27'-9"	3 @ 12'-1"	N/A	36'-3"	3 @ 17'-11"	N/A	53'-9"
9	3	9	3 @ 12'-4"	N/A	37'-0"	3 @ 16'-2"	N/A	48'-6"	3 @ 24'-0"	3 @ 8'-7"	97'-9"
9	4	9	3 @ 15'-6"	N/A	46'-6"	3 @ 20'-4"	2 @ 8'-7"	78'-2"	3 @ 30'-1"	3 @ 8'-7"	116'-0"
9	5	9	3 @ 18'-8"	N/A	56'-0"	3 @ 24'-5"	3 @ 8'-7"	99'-0"	3 @ 36'-2"	4 @ 8'-7"	142'-10"
9	6	9	3 @ 21'-10"	2 @ 8'-7"	82'-8"	3 @ 28'-7"	3 @ 8'-7"	111'-6"	3 @ 42'-3"	5 @ 8'-7"	169'-8"
9	7	9	3 @ 25'-0"	3 @ 8'-7"	100'-9"	3 @ 32'-8"	4 @ 8'-7"	132'-4"	3 @ 48'-4"	6 @ 8'-7"	196'-6"
9	8	9	3 @ 28'-2"	3 @ 8'-7"	110'-3"	3 @ 36'-10"	4 @ 8'-7"	144'-10"	3 @ 54'-5"	6 @ 8'-7"	214'-9"
9	9	9	3 @ 31'-4"	3 @ 8'-7"	119'-9"	3 @ 40'-11"	5 @ 8'-7"	165'-8"	3 @ 60'-6"	7 @ 8'-7"	241'-7"
10	2	10	3 @ 9'-6"	N/A	28'-6"	3 @ 12'-5"	N/A	37'-3"	3 @ 18'-5"	N/A	55'-3"
10	3	10	3 @ 12'-8"	N/A	38'-0"	3 @ 16'-6"	N/A	49'-6"	3 @ 24'-6"	3 @ 9'-7"	102'-3"
10	4	10	3 @ 15'-10"	N/A	47'-6"	3 @ 20'-8"	2 @ 9'-7"	81'-2"	3 @ 30'-7"	3 @ 9'-7"	120'-6"
10	5	10	3 @ 19'-0"	N/A	57'-0"	3 @ 24'-9"	3 @ 9'-7"	103'-0"	3 @ 36'-8"	4 @ 9'-7"	148'-4"
10	6	10	3 @ 22'-1"	2 @ 9'-7"	85'-5"	3 @ 28'-11"	3 @ 9'-7"	115'-6"	3 @ 42'-9"	5 @ 9'-7"	176'-2"
10	7	10	3 @ 25'-3"	3 @ 9'-7"	104'-6"	3 @ 33'-0"	4 @ 9'-7"	137'-4"	3 @ 48'-10"	6 @ 9'-7"	204'-0"
10	8	10	3 @ 28'-5"	3 @ 9'-7"	114'-0"	3 @ 37'-2"	4 @ 9'-7"	149'-10"	3 @ 54'-11"	6 @ 9'-7"	222'-3"
10	9	10	3 @ 31'-7"	4 @ 9'-7"	133'-1"	3 @ 41'-3"	5 @ 9'-7"	171'-8"	3 @ 61'-0"	7 @ 9'-7"	250'-1"
10	10	10	3 @ 34'-9"	4 @ 9'-7"	142'-7"	3 @ 45'-5"	5 @ 9'-7"	184'-2"	3 @ 67'-1"	8 @ 9'-7"	277'-11"
11	2	11	4 @ 9'-9"	N/A	39'-0"	4 @ 12'-9"	N/A	51'-0"	4 @ 18'-11"	N/A	75'-8"
11	3	11	4 @ 12'-11"	N/A	51'-8"	4 @ 16'-11"	N/A	67'-8"	4 @ 25'-0"	3 @ 10'-7"	131'-9"
11	4	11	4 @ 16'-1"	N/A	64'-4"	4 @ 21'-0"	2 @ 10'-7"	105'-2"	4 @ 31'-1"	3 @ 10'-7"	156'-1"
11	6	11	4 @ 22'-5"	2 @ 10'-7"	110'-10"	4 @ 29'-3"	3 @ 10'-7"	148'-9"	4 @ 43'-3"	5 @ 10'-7"	225'-11"
11	8	11	4 @ 28'-9"	3 @ 10'-7"	146'-9"	4 @ 37'-6"	4 @ 10'-7"	192'-4"	4 @ 55'-5"	6 @ 10'-7"	285'-2"
11	10	11	4 @ 35'-0"	4 @ 10'-7"	182'-4"	4 @ 45'-9"	5 @ 10'-7"	235'-11"	4 @ 67'-7"	8 @ 10'-7"	355'-0"
11	11	11	4 @ 38'-2"	4 @ 10'-7"	195'-0"	4 @ 49'-10"	6 @ 10'-7"	262'-10"	4 @ 73'-8"	9 @ 10'-7"	389'-11"
12	2	12	4 @ 10'-0"	N/A	40'-0"	4 @ 13'-1"	N/A	52'-4"	4 @ 19'-5"	N/A	77'-8"
12	3	12	4 @ 13'-2"	N/A	52'-8"	4 @ 17'-3"	N/A	69'-0"	4 @ 25'-6"	3 @ 11'-7"	136'-9"
12	4	12	4 @ 16'-4"	N/A	65'-4"	4 @ 21'-4"	2 @ 11'-7"	108'-6"	4 @ 31'-7"	4 @ 11'-7"	172'-8"
12	6	12	4 @ 22'-8"	2 @ 11'-7"	113'-10"	4 @ 29'-7"	3 @ 11'-7"	153'-1"	4 @ 43'-9"	5 @ 11'-7"	232'-11"
12	8	12	4 @ 29'-0"	3 @ 11'-7"	150'-9"	4 @ 37'-10"	4 @ 11'-7"	197'-8"	4 @ 55'-11"	7 @ 11'-7"	304'-9"
12	10	12	4 @ 35'-4"	4 @ 11'-7"	187'-8"	4 @ 46'-1"	5 @ 11'-7"	242'-3"	4 @ 68'-1"	8 @ 11'-7"	365'-0"
12	12	12	4 @ 41'-8"	5 @ 11'-7"	224'-7"	4 @ 54'-4"	6 @ 11'-7"	286'-10"	4 @ 80'-3"	10 @ 11'-7"	436'-10"

(Sheet 2 of 2)

TPGBC-ZS

2-17-2017

FILE NAME =	USER NAME = freimthpd	DESIGNED -	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">TRAVERSABLE PIPE GRATE FOR BOX CULVERTS</p>				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\DOT Offices\District 8\Projects\0876\DRAWING\DATA\EA0\Sheets\0876\88-sht\plan.dwg	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -						9251	28,29-N-1	ST. CLAIR	41	31
\$MODELNAME\$	PLOT DATE = 12/20/2017	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
											CONTRACT NO. 76J88		



SOIL BORING LOG

ROUTE FAU 9251 DESCRIPTION IL 158/177 Box Culvert at Plum Hill School Road LOGGED BY ZV (Tsi)
SECTION 28,29-N-1 LOCATION SEC. 29, TWP. 1N, RNG. 7W, 3 PM
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O S T (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After ** Hrs.	D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O S T (%)
N/A		B-1 South End	289+93	35.00ft Right	463.8								441.6	N/A	N/A				
							3		14							2	2.37	23	
							2									3	B		
							2		17							1	0.90	21	
							2									3	B		
							1									2	0.90	21	
							2									3			
							2	1.47	26							3	2.21	18	
							2	B								3	B		
							2									3			
							2	1.35	26							5	1.96	21	
							4	B								7	B		
							2									3			
							3	1.43	24							6	2.09	18	
							4	B								7	B		
							2									3			
							3	1.80	24							5	1.80	16	
							3	B								7	B		
							2									7			
							2	2.58	24							8	2.94	23	
							3	B								9	B		
							2												
							2	1.64	28										
							4	B											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



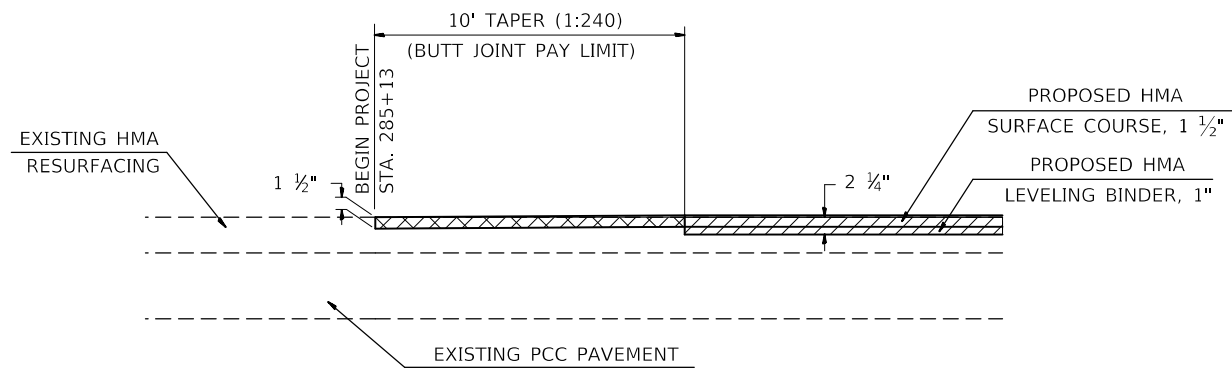
SOIL BORING LOG

ROUTE FAU 9251 DESCRIPTION IL 158/177 Box Culvert at Plum Hill School Road LOGGED BY ZV (Tsi)
SECTION 28,29-N-1 LOCATION SEC. 29, TWP. 1N, RNG. 7W, 3 PM
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE Automatic

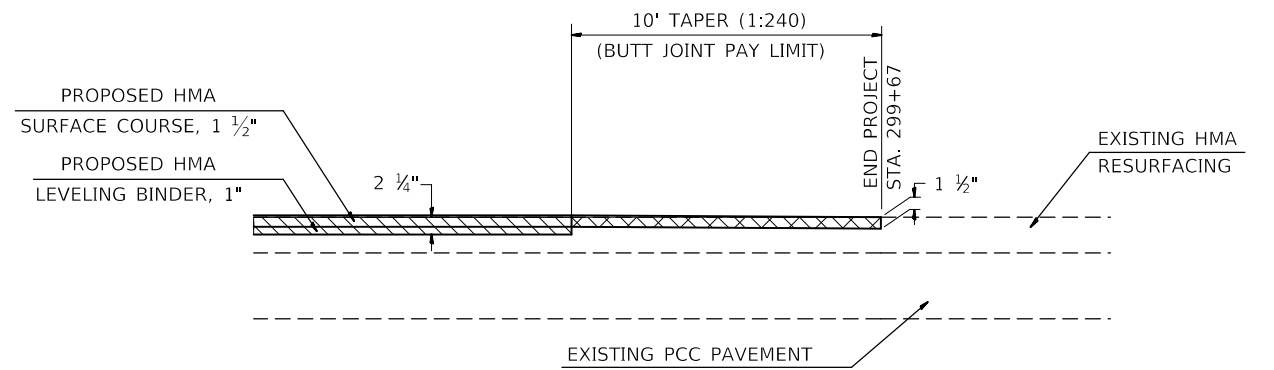
STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O S T (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After ** Hrs.	D E P T H (ft)	B L O W S (/6")	U C S (tsf)	M O S T (%)
N/A		B-2 North End	289+74	25.00ft Left	464.7								445.7	N/A	N/A				
							4									2			
							3	1.50	28							2	1.64	23	
							3	P								3	B		
							2									2			
							2	0.78	26							2	0.70	22	
							3	S								2	S		
							2									4			
							1	0.90	25							5	1.64	20	
							2	B								6	B		
							1									2			
							2	1.23	27							4	2.17	21	
							2	B								6	B		
							1									4			
							3	0.94	26							6	1.47	22	
							3	B								8	S		
							1									3			
							2	0.94	25							5	2.25	23	
							2	B								6	S		
							1									6			
							2	0.82	26							6	2.25	22	
							2	B								7	B		
							1												
							2	1.23	27										
							1	B											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



BEGIN BUTT JOINT DETAIL
ELEVATION VIEW



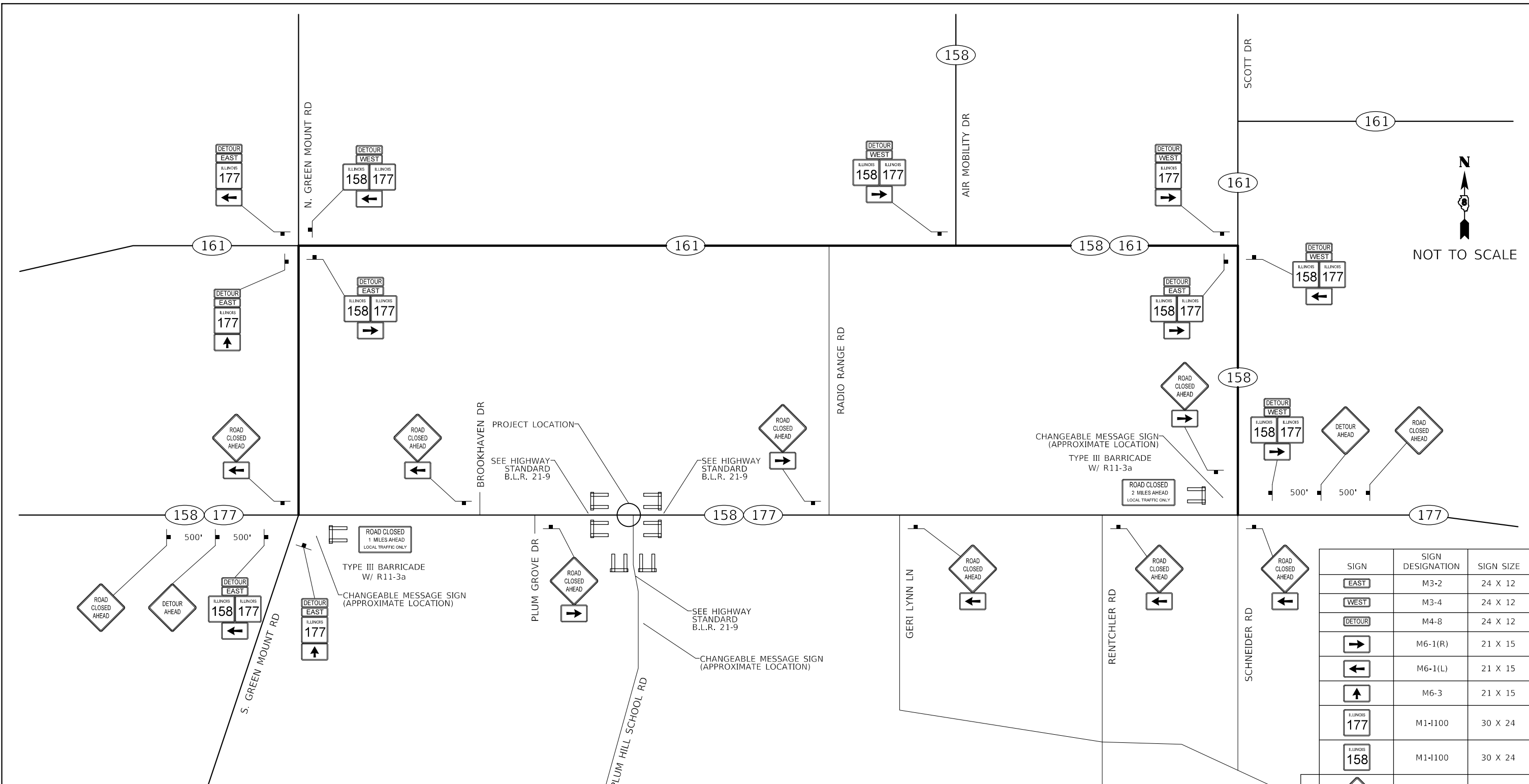
END BUTT JOINT DETAIL
ELEVATION VIEW

FILE NAME =	USER NAME = freimthpd	DESIGNED -	REVISED -
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\$MODELNAME\$	PLOT DATE = 12/20/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS			
SCALE:	SHEET	OF	SHEETS
	STA.		TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28,29-N-1	ST. CLAIR	41	33
CONTRACT NO. 76J88				
ILLINOIS FED. AID PROJECT				



- NOTES:
1. DETOUR SIGNS REQUIRED WILL BE SUPPLIED TO THE CONTRACTOR BY I.D.O.T.
 2. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE ENGINEER. THE POST SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
 3. THE CONTRACTOR SHALL GIVE ILLINOIS DEPARTMENT OF TRANSPORTATION, BUREAU OF OPERATIONS TWO WEEKS NOTICE FOR SIGNS. THE CONTRACTOR SHALL PICK UP SIGNS AT THE T.M. BUILDING IN FAIRVIEW HEIGHTS, AND RETURN THEM UPON COMPLETION OF THE CONTRACT. CONTACT JEAN SLAPE (618) 394-2189.
 4. SIGNS WILL BE PLACED 100' PRIOR TO INTERSECTION OR TO FIT FIELD CONDITIONS, UNLESS OTHERWISE NOTED OR AS DIRECTED BY THE ENGINEER.
 5. THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN 6'.
 6. CONTRACTOR SHALL FURNISH ADVANCE WARNING SIGNS, ROAD CLOSURE SIGNS, MESSAGE BOARDS, AND TYPE 3 BARRICADES.
 7. ALL ADVANCE WARNING SIGNS SHALL BE 48" FLUORESCENT ORANGE WITH FLASHING LIGHTS.
 8. THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, LUMP SUM, FOR DETOUR SIGNING AND NO OTHER COMPENSATION WILL BE ALLOWED. CHANGEABLE MESSAGE SIGNS PAID FOR SEPARATELY.

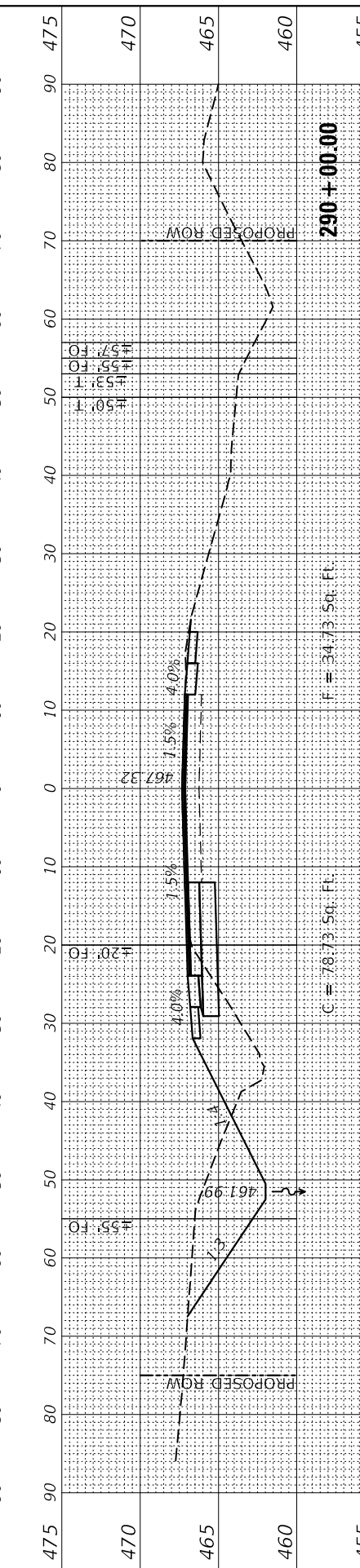
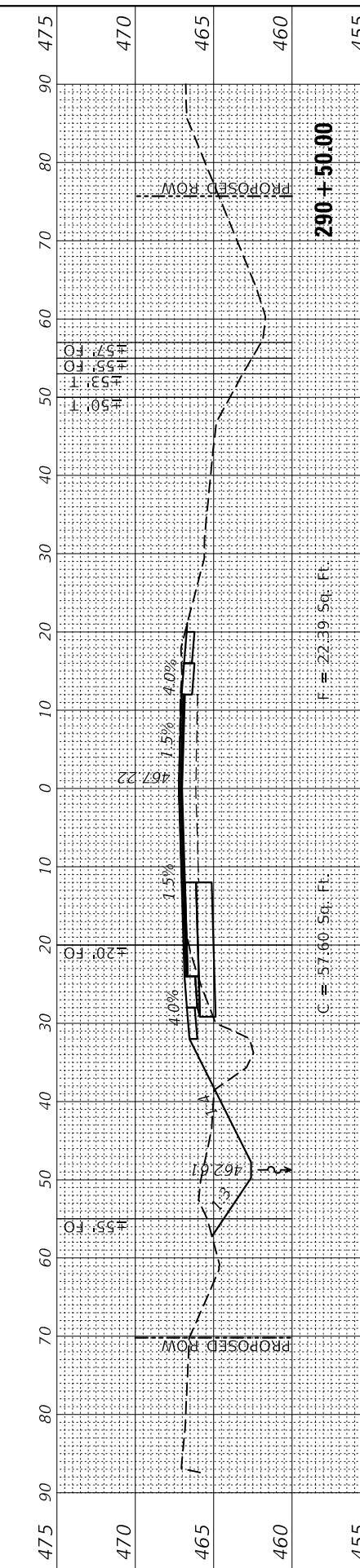
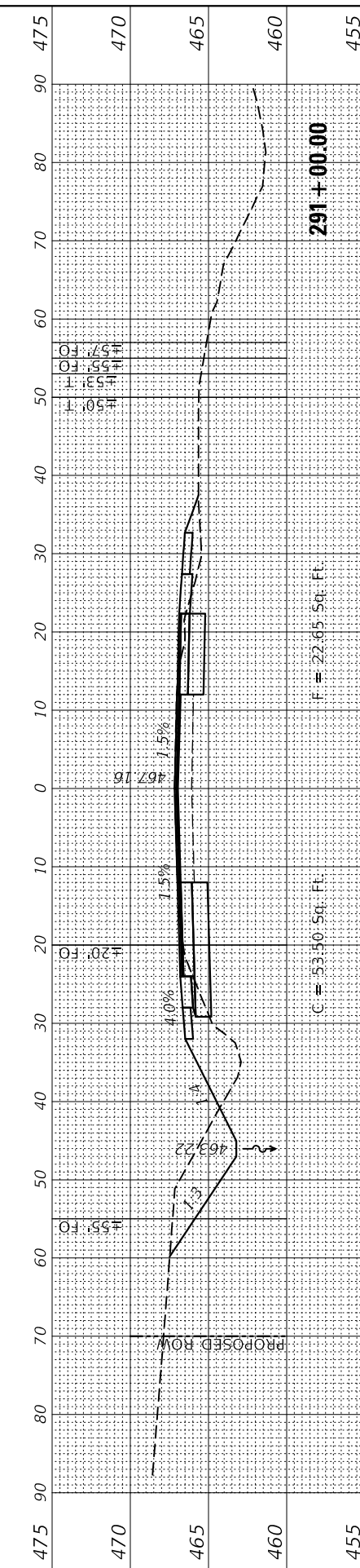
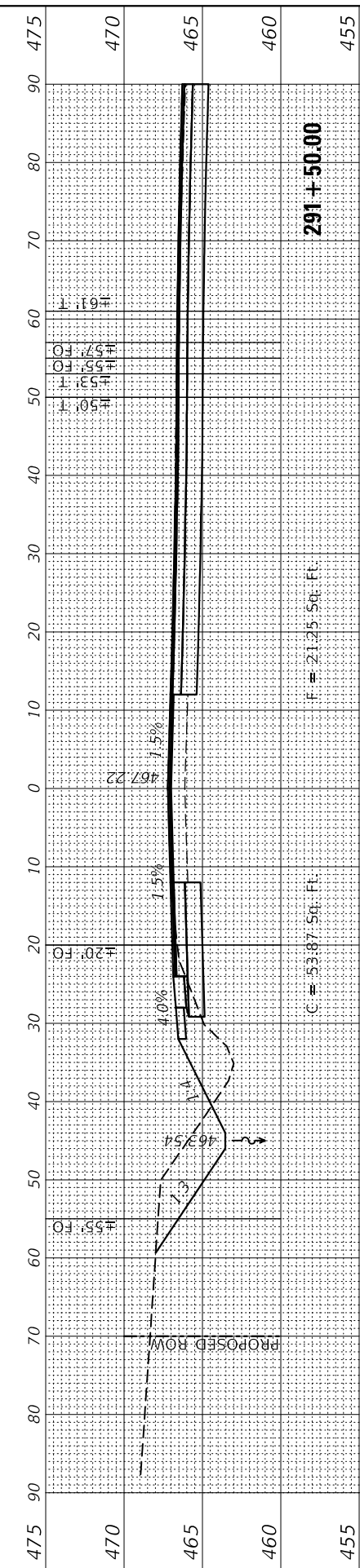
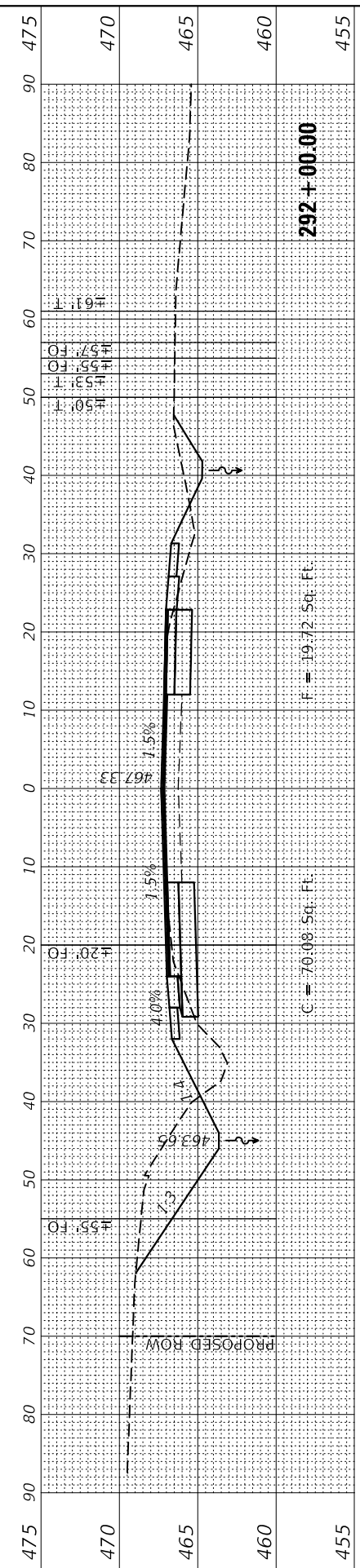
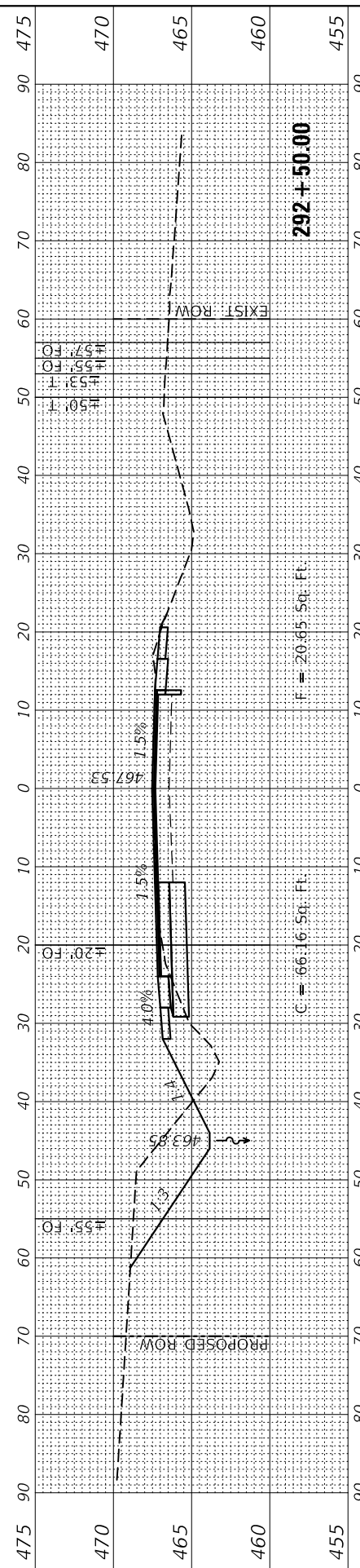
SIGN	SIGN DESIGNATION	SIGN SIZE
	M3-2	24 X 12
	M3-4	24 X 12
	M4-8	24 X 12
	M6-1(R)	21 X 15
	M6-1(L)	21 X 15
	M6-3	21 X 15
	M1-1100	30 X 24
	M1-1100	30 X 24
	W20-3	48 X 48
	W20-3	48 X 48
	W20-2	48 X 48
	R11-3a	60 X 30

CONTRACTOR PROVIDED

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

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

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	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/20/2017	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET	OF	SHEETS	STA. 290+00.00 TO STA. 292+50.00
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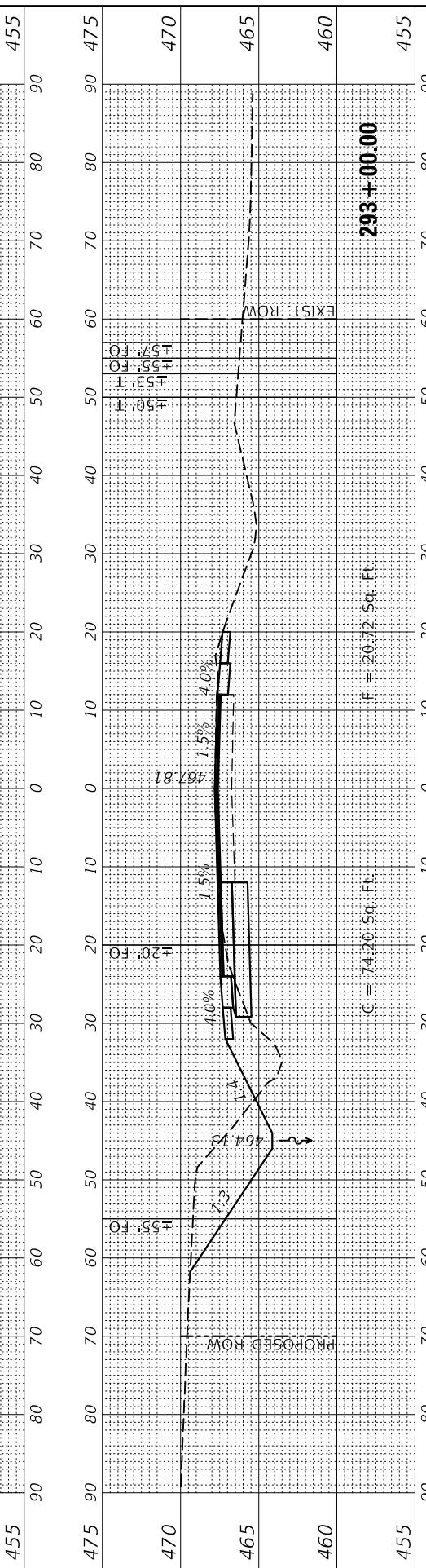
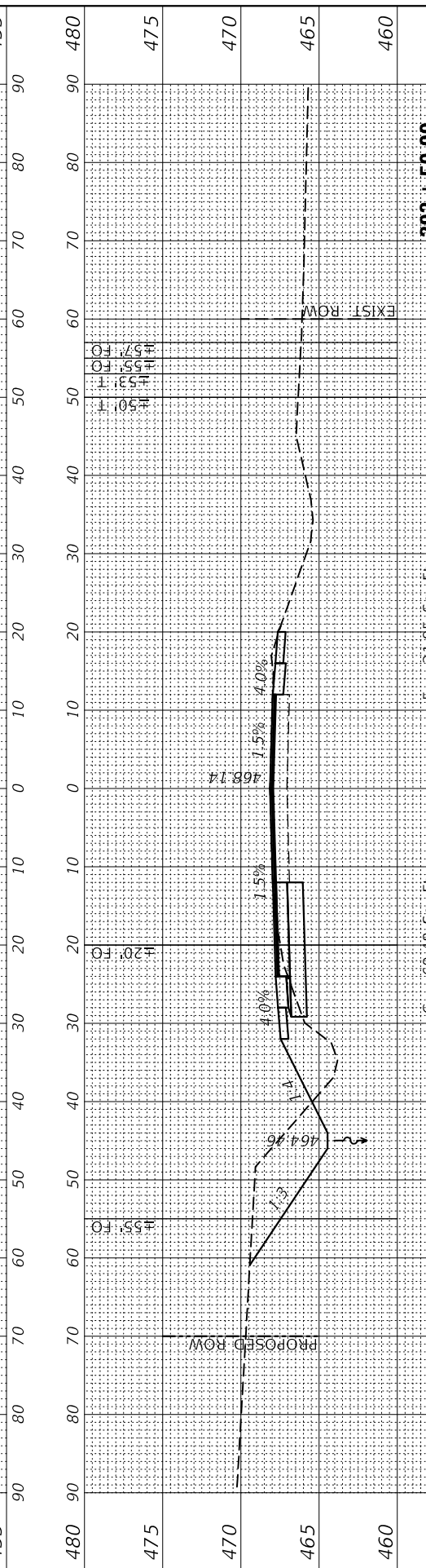
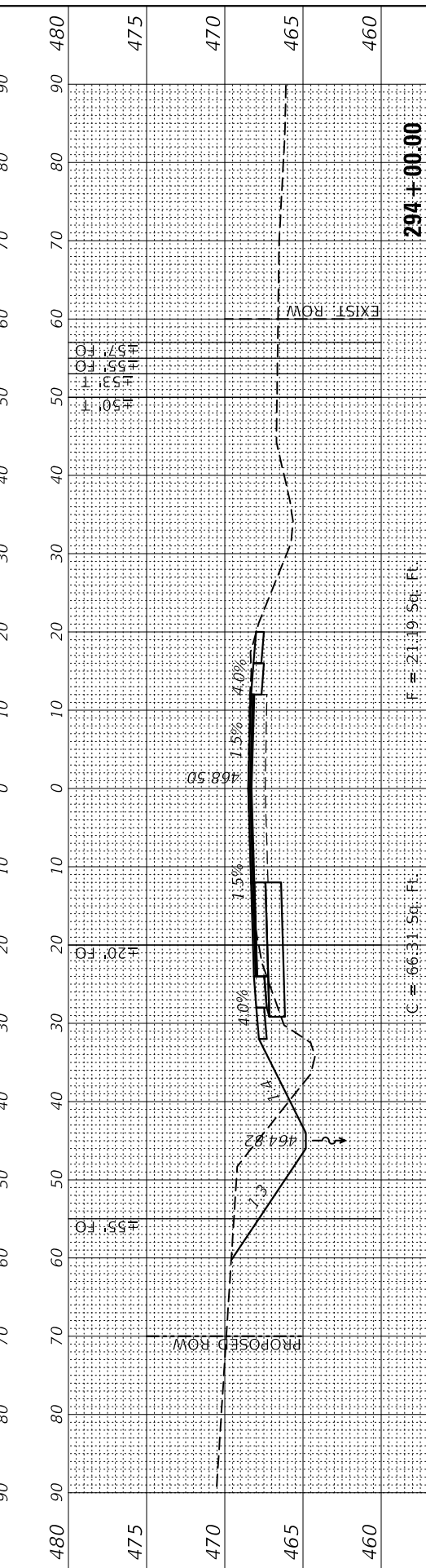
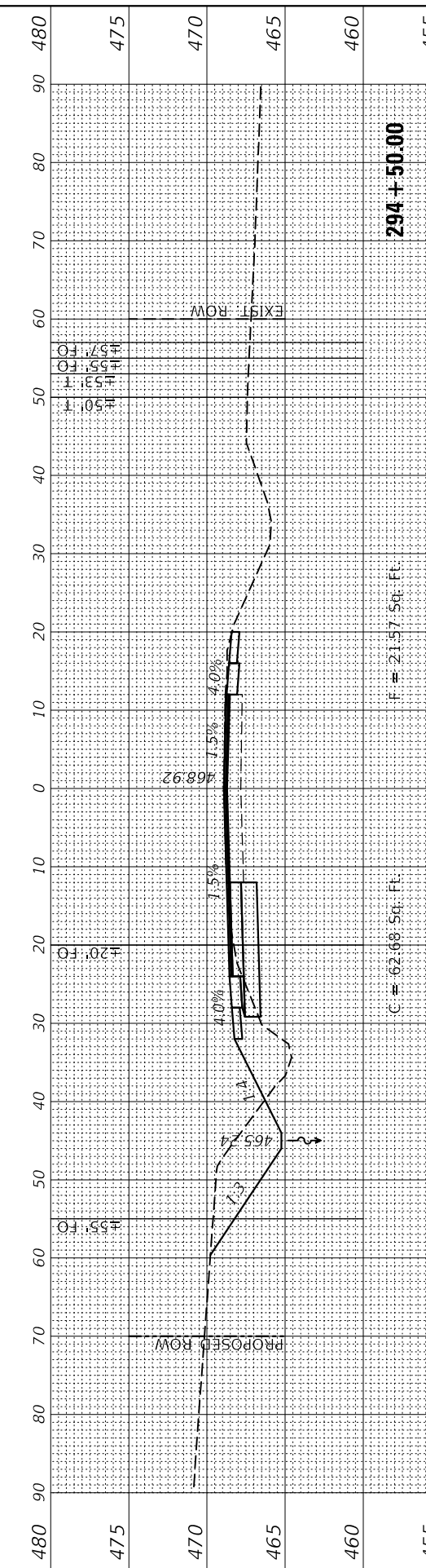
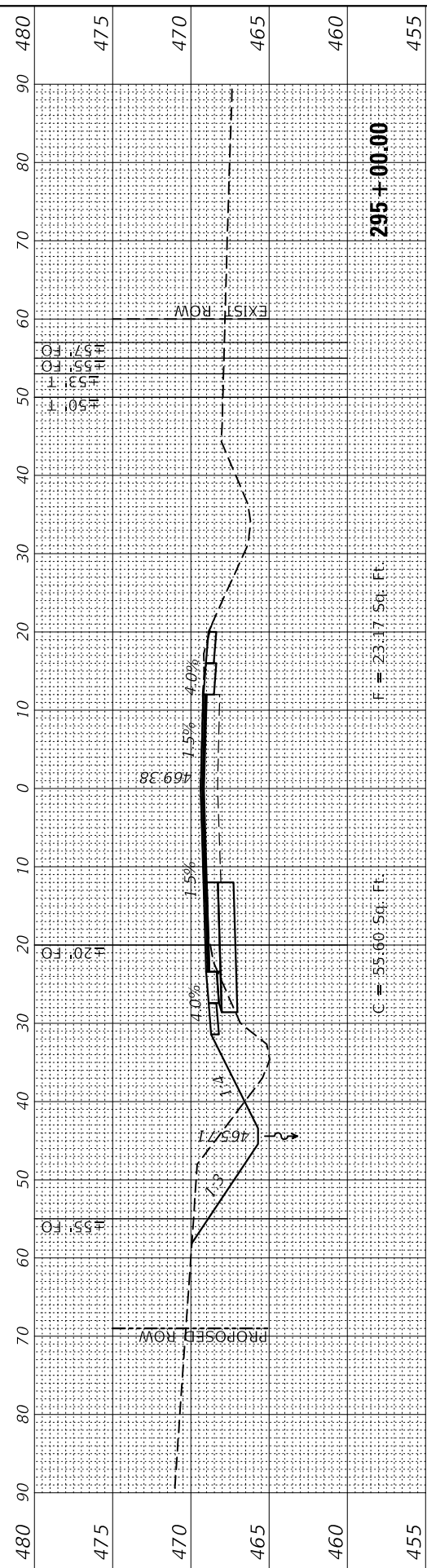
CROSS SECTIONS
 (IL 158/IL 177)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28,29-N-1	ST. CLAIR	41	37
CONTRACT NO. 76J88				
ILLINOIS FED. AID PROJECT				

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

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

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	DRAWN -
PLOT SCALE = 100.0000' / in.	CHECKED -
PLOT DATE = 12/20/2017	DATE -

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. 293+00.00 TO STA. 295+00.00

CROSS SECTIONS
 (IL 158/IL 177)

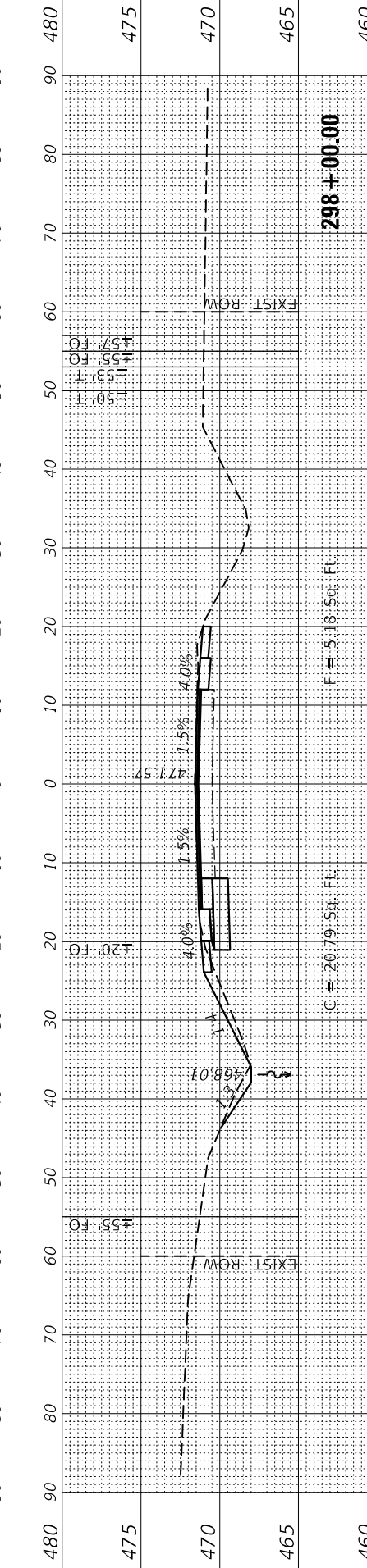
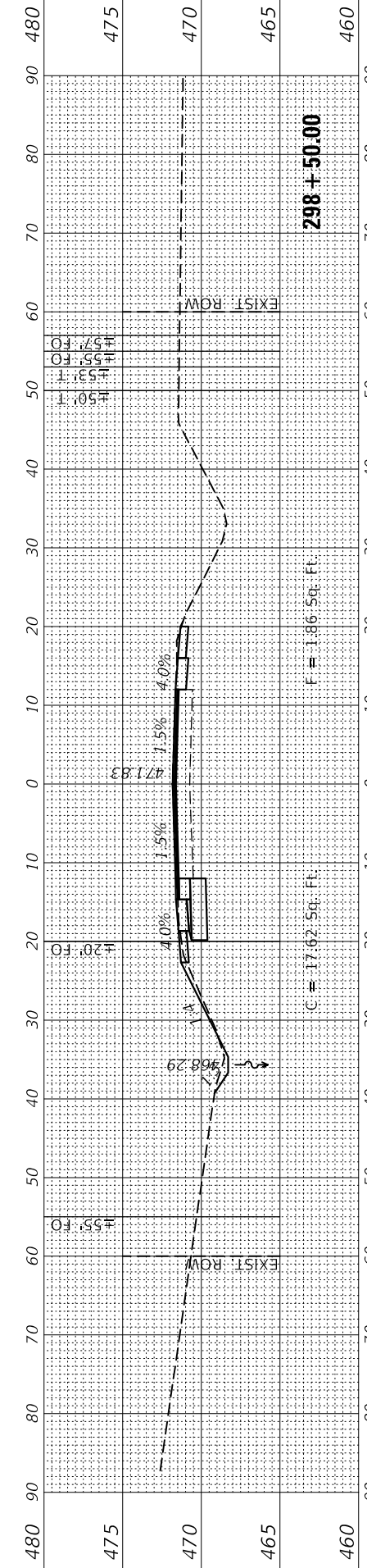
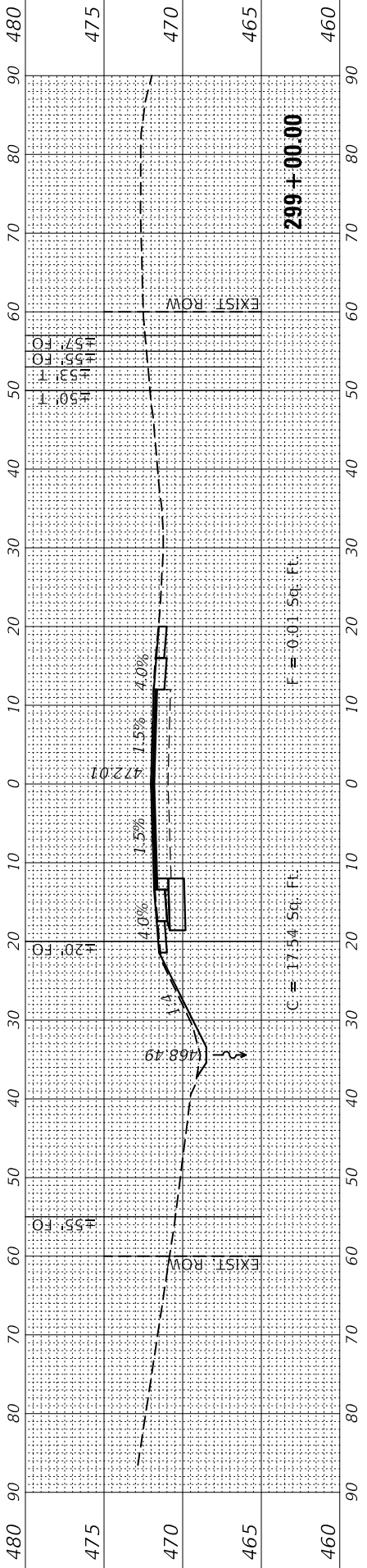
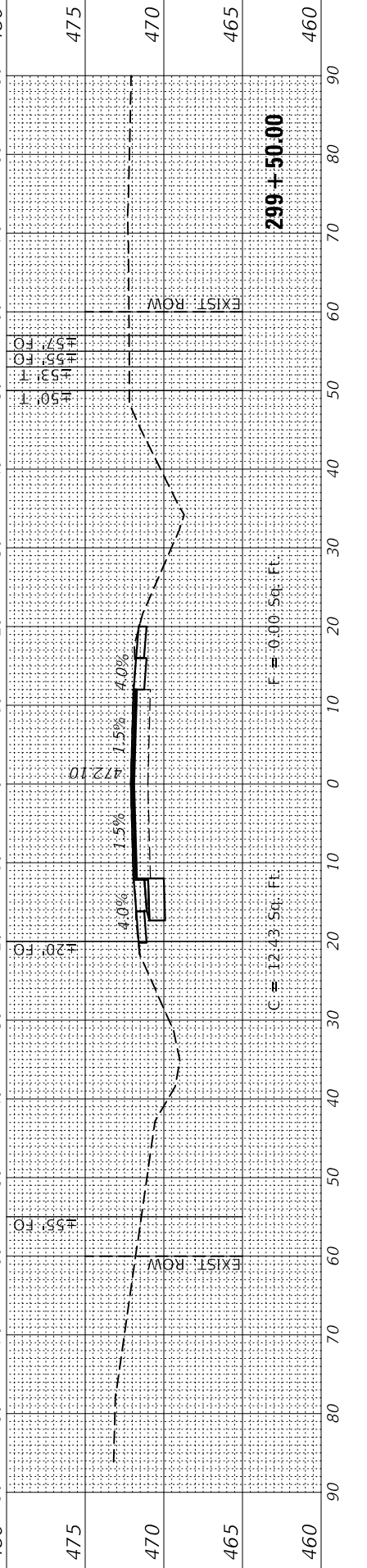
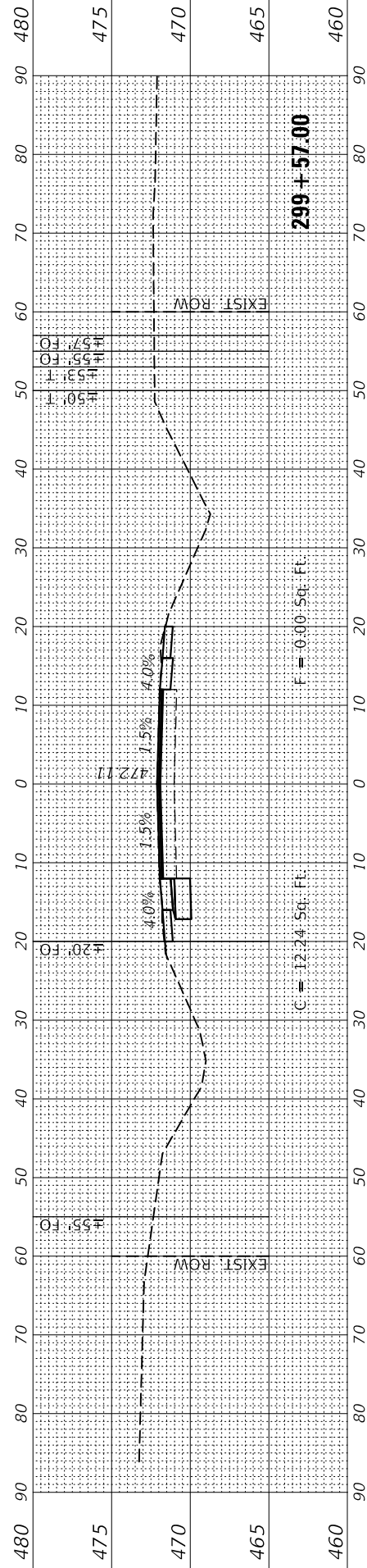
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28,29-N-1	ST. CLAIR	41	38
CONTRACT NO. 76J88				
ILLINOIS FED. AID PROJECT				

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

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

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PLOT DATE = 12/20/2017	CHECKED -	REVISED -
	DATE -	REVISED -



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 (IL 158/IL 177)

SCALE: SHEET OF SHEETS STA. 298+50.00 TO STA. 299+56.99

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9251	28,29-N-1	ST. CLAIR	41	40
CONTRACT NO. 76J88				
ILLINOIS FED. AID PROJECT				

