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- STANDARDS -

280001-05	604091-02
542301-02	606001-04
542601-02	667101-01
542606-01	701311-03
602301-02	701901-01
602306-02	780001-02
602601-02	781001-03
604006-04	000001-05
	BLR 22-6

- UTILITIES -

AMEREN IP - ELECTRIC/GAS 1050 W BOULEVARD BELLEVILLE, IL 62222 800.755.5000	CHARTER COMMUNICATIONS 210 W. DIVISION MARYVILLE, IL 62062 618.345.8122
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AT&T
203 GOETHE STREET
COLLINSVILLE, IL 62234
618.346.6400

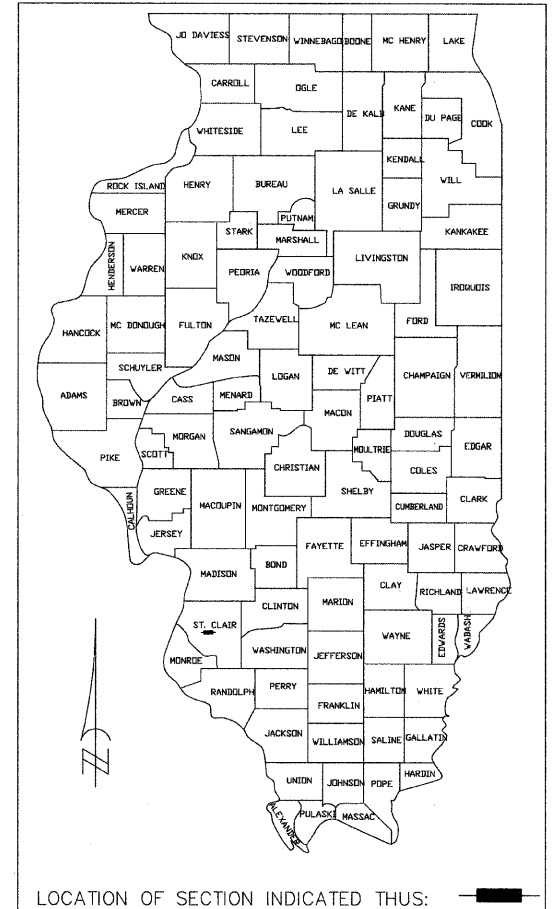
Call Joint Utility Locating Information for Excavators
(J.U.L.I.E.) before digging 800-892-0123

ST. CLAIR TOWNSHIP SECTIONS 30 AND 31 T.1N.R.8W.

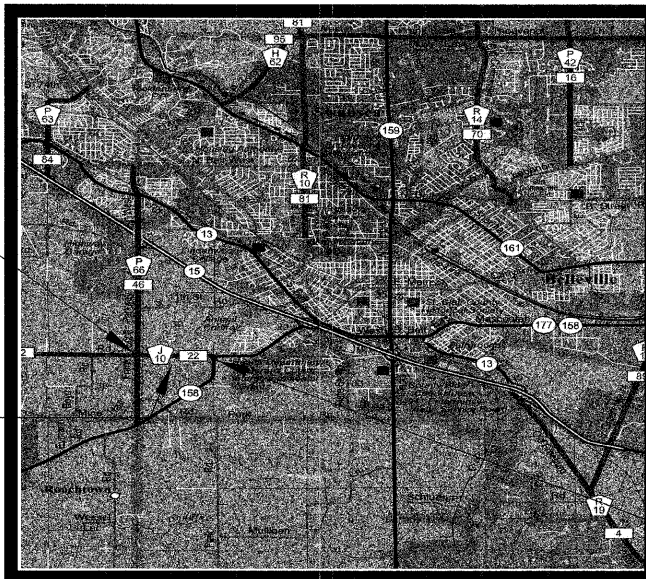
CONTRACT NO. 97415

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
LOCAL AGENCY IMPROVEMENT
FAU RTE 9294 CONCORDIA CHURCH ROAD (C.H. 22)
SECTION 06-00092-02-PV
FED PROJECT NO. ARA-5011(297)
ST CLAIR COUNTY
CONSTRUCTION JOB NO. C-98-373-09

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	1 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT		CONTRACT # 97415	



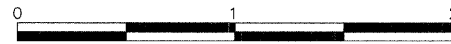
SECTION 06-00092-02-PV
ENDS STA. 54+46.18



CONCORDIA CHURCH ROAD
(C.H. 22)



SECTION 06-00092-02-PV
BEGINS STA. 11+00.14
LIMITS OF CONSTRUCTION
BEGINS AT STA. 8+59.5



SCALE IN MILES

GROSS LENGTH OF PROJECT = 4586.68 FT. (0.869 MILES)
(BASED ON BEGINNING AT STA. 8+59.5)

NET LENGTH OF PROJECT = 4586.68 FT. (0.869 MILES)
(BASED ON BEGINNING AT STA. 8+59.5)

ROADWAY DESIGNATION: MINOR ARTERIAL

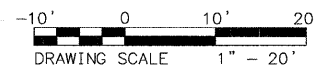
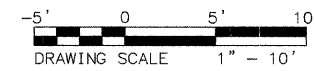
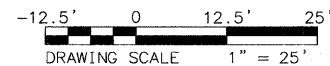
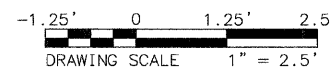
CURRENT TRAFFIC (2006) = 1863 ADT

DESIGN YEAR (2029) = 3677 ADT

DESIGN SPEED: 45 MPH

SCALE

PLAN PROFILE	1" = 20'
HORIZ	1" = 20'
VERT	1" = 1'
CROSS SECTIONS	
HORIZ	1" = 10'
VERT	1" = 10'



December 11, 2009

These plans were prepared by me or by a full-time member of my staff working under my personal supervision.

Darrell I. Cates

DARRELL I. CATES, P.E.
County Engineer
License Number 62-29109

License Expiration Date: November 30, 2011

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	<i>December 11, 2009</i> <i>Darrell I. Cates</i> COUNTY ENGINEER
PASSED	<i>December 14, 2009</i> <i>[Signature]</i> DISTRICT 8 ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	<i>December 14, 2009</i> <i>[Signature]</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

SECTION NO.	HIGHWAY	COUNTY	SHEETS
06-0092-02-PV	22	ST. CLAIR	2 OF 63
FHWA REG.NO.7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT		CONTRACT #97415	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	1963
20800150	TRENCH BACKFILL	CU YD	1106
25000200	SEEDING, CLASS 2	ACRE	2.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	225
25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	225
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	225
25100115	MULCH, METHOD 2	ACRE	2.5
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	250
28000305	TEMPORARY DITCH CHECKS	FOOT	50
28000400	PERIMETER EROSION BARRIER	FOOT	5484
28000500	INLET AND PIPE PROTECTION	EACH	22
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	14
28200200	FILTER FABRIC	SQ YD	14
30200650	PROCESSING MODIFIED SOIL 12"	SQ YD	14967
30201500	LIME	TON	373.5
30201700	PORTLAND CEMENT	TON	57.3
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	14967
31100700	SUB-BASE GRANULAR MATERIAL, TYPE A 8"	SQ YD	642
35100300	AGGREGATE BASE COURSE, TYPE A 4"	SQ YD	12
35100500	AGGREGATE BASE COURSE, TYPE A 6"	SQ YD	145
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	126
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	78
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	276
40600300	AGGREGATE (PRIME COAT)	TON	2.3
40600895	CONSTRUCTING TEST STRIP	EACH	1
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	4718.6
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	2229
40800010	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	4
40800030	AGGREGATE (PRIME COAT)	TON	0.1
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	1.3
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	208
44000100	PAVEMENT REMOVAL	SQ YD	11114
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	49
48100500	AGGREGATE SHOULDERS, TYPE A 6"	SQ YD	173
50105200	REMOVE EXISTING CULVERTS	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	302
54001001	BOX CULVERT END SECTION, CULVERT NO. 1	EACH	2
54011003	PRECAST CONCRETE BOX CULVERT 10' X 3'	FOOT	44
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	10
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1
54213687	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 42"	EACH	1
54215967	REINFORCED CONCRETE PIPE ELBOW 12"	EACH	1
54215973	REINFORCED CONCRETE PIPE ELBOW 18"	EACH	1
54216180	REINFORCED CONCRETE PIPE TEE, 12" PIPE WITH 12" RISER	EACH	2
54216190	REINFORCED CONCRETE PIPE TEE, 18" PIPE WITH 12" RISER	EACH	1

*: DENOTES A SPECIALTY ITEM

Δ YC80

CODE NO.	ITEM	UNIT	QUANTITY
55019500	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 12"	FOOT	5779
55019600	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 15"	FOOT	1421
55019700	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 18"	FOOT	125
55019900	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 24"	FOOT	1
55020400	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS II 42"	FOOT	4
55021800	STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 18"	FOOT	386
55034200	STORM SEWERS, TYPE 1, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 23, RISE 14	FOOT	860
55035300	STORM SEWERS, TYPE 2, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 23, RISE 14	FOOT	348
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	1
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	21
60238710	INLETS, TYPE A, WITH SPECIAL GRATE	EACH	6
60240328	INLETS, TYPE B, TYPE 24 FRAME AND GRATE	EACH	1
60242500	INLETS, SPECIAL NO. 1	EACH	9
60242600	INLETS, SPECIAL NO. 2	EACH	5
60242700	INLETS, SPECIAL NO. 3	EACH	3
60242800	INLETS, SPECIAL NO. 4	EACH	3
60242801	INLETS, SPECIAL NO. 5	EACH	1
60242802	INLETS, SPECIAL NO. 6	EACH	1
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	22
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	8662
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	5
67000400	ENGINEERS FIELD OFFICE, TYPE A	CAL MO	10
67100100	MOBILIZATION	L SUM	1
70101835	TRAFFIC CONTROL AND PROTECTION BLR-22	L SUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	928
70300625	TEMPORARY PAINT PAVEMENT MARKING LINE 4"	FOOT	2943
70300645	TEMPORARY PAINT PAVEMENT MARKING LINE 12"	FOOT	22
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1312
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2943
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	22
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	58
XX003036	STORM SEWERS, PVC, SDR 26, 10 INCH	FOOT	18
Δ Z0076600	TRAINEES	HOUR	500
XX00829Z	STORM SEWERS, PVC, SDR 26, 3 INCH	FOOT	12

SECTION NO.	HIGHWAY	COUNTY	SHEETS
06-00092-02-PV	22	ST. CLAIR	3 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT		CONTRACT #97415	

GENERAL NOTES

LEGEND

⊖ VALVE	— — — — —	EXISTING R.O.W.
⊕ FIRE HYDRANT	- - - - -	PROPOSED R.O.W.
⊗ LIGHT STANDARD	CONSTRUCTION LIMITS
⊙ WATER METER	- - - - -	TEMPORARY CONSTRUCTION EASEMENT
⊙ GAS METER	— — — — —	ELECTRIC
⊕ POWER POLE	— — — — —	FIBER OPTIC
⊕ MAILBOX	— — — — —	GASLINE
⊕ TELEPHONE DROP BOX	— — — — —	EXISTING SANITARY SEWER
⊙ BUSH	— — — — —	TELEPHONE
⊙ BUSH	— — — — —	WATERLINE
⊙ TREE (LESS THAN 6" DIA.)	— — — — —	WOVEN WIRE FENCE
⊙ TREE (6" -15" DIA.)	— — — — —	CHAIN LINK FENCE
⊙ TREE (15" DIA. AND UP)		
● PERMANENT SURVEY MARKER		
— — — — —		EXISTING CULVERT TO BE REMOVED

GENERAL NOTES

- ALL CULVERT PIPE TO BE REMOVED WHICH IS CONSIDERED TO BE SALVABLE BY THE ENGINEER SHALL REMAIN THE PROPERTY OF THE COUNTY. ALL OTHERS SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN EXPENSE.
- THE LIMITS OF CONSTRUCTION AND TEMPORARY CONSTRUCTION EASEMENTS ARE SHOWN ON THE PLAN VIEW SHEETS.
- THE FOLLOWING UTILITIES MAY HAVE FACILITIES LOCATED WITHIN THE LIMITS OF CONSTRUCTION WHICH MAY REQUIRE ADJUSTMENT OR REMOVAL:

AMEREN IP 1050 W BOULEVARD BELLEVILLE, IL 62222	AT&T 203 GOETHE STREET COLLINSVILLE, IL 62234	CHARTER COMMUNICATIONS 200 W. DIVISION MARYVILLE, IL 62062
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- IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS TAKEN THE FOREGOING INTO CONSIDERATION IN SUBMITTING HIS BID, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY DELAYS OR INCONVENIENCES CAUSED BY SAME.
- NO SEEDING WILL BE PERMITTED OUTSIDE THE DATES LISTED IN THE STANDARD SPECIFICATIONS UNLESS GRANTED, IN WRITING, BY THE ENGINEER.
 - (INTENTIONALLY LEFT BLANK)
 - ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.
 - THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.
 - FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.
 - THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO ORDERING STORM SEWERS, INLETS AND PIPE CULVERTS AS TO THE EXACT LENGTH AND/OR QUANTITY REQUIRED.
 - THE FOLLOWING FACTORS WERE USED IN COMPUTING QUANTITIES FOR THIS PROJECT:

LIME	55 LBS/SQ YD/FT THK	} 102 LBS/CU FT UNIT WEIGHT OF SOIL (DRY)
CEMENT FOR SOIL STABILIZATION	73 LBS/SQ YD/FT THK	
ALL AGGREGATE	2.10 TONS/CU YD	
BITUMINOUS MATERIALS (PRIME COAT) ON AGGREGATE	0.35 GALS/CU YD	
AGGREGATE (PRIME COAT)	6 POUNDS/SQ.YD.	
HMA SURFACE AND BINDER COURSES	112 LBS/SQ YD /IN THK	
INCIDENTAL HMA SURFACING	110 LBS/SQ YD /IN THK	

- WHEN REMOVING THE EXISTING ROADBED MATERIAL THE CONTRACTOR SHALL ENSURE THAT ALL OIL & CHIP, BITUMINOUS CONCRETE, ETC. HAS BEEN COMPLETELY REMOVED SO AS TO NOT INTERFERE WITH THE LIME-SOIL REACTION.
- A TILLER-TYPE GATORING MACHINE AS OPPOSED TO A TRACTOR-TOWED DISC SHALL BE USED IN THE LIME MODIFICATION PROCESS TO ENSURE THAT A MORE UNIFORM DISTRIBUTION OF LIME IS ACHIEVED.
- ANY PORTION OF THE RIGHT-OF-WAY THAT WILL BE PERMANENTLY EXPOSED IN THE COMPLETED ROADWAY SHALL BE CONSTRUCTED USING NATIVE MATERIALS OF A CLASSIFICATION THAT WILL SUPPORT VEGETATION AND HAVE A PLASTICITY INDEX OF 12 OR GREATER.
- AREAS OF THE ROADWAY THAT ARE TO RECEIVE FILL SHALL BE PROOFROLLED PRIOR TO FILL PLACEMENT. IF UNACCEPTABLE MATERIALS ARE ENCOUNTERED, THEY SHOULD BE REMOVED AND REPLACED WITH ENGINEERED FILL, OR STABILIZED, PRIOR TO THE PLACEMENT OF THE FILL MATERIAL.
- COHESIVE FILL SHOULD BE PLACED IN MAXIMUM 8-INCH-THICK LOOSE LIFTS AND MECHANICALLY COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASSHTO T-99.
- THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT

MIXTURE USE	MAINLINE		TEMPORARY TRANSITION PAVEMENT
	SURFACE	BINDER	
AC/PG	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	10%	15%	10%
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL-12.5	IL-19.0	IL-12.5
FRICITION AGGREGATE	MIXTURE C		MIXTURE C
MIXTURE WEIGHT	112 lbs/sq yd/in thk	112 lbs/sq yd/in thk	112 lbs/sq yd/in thk

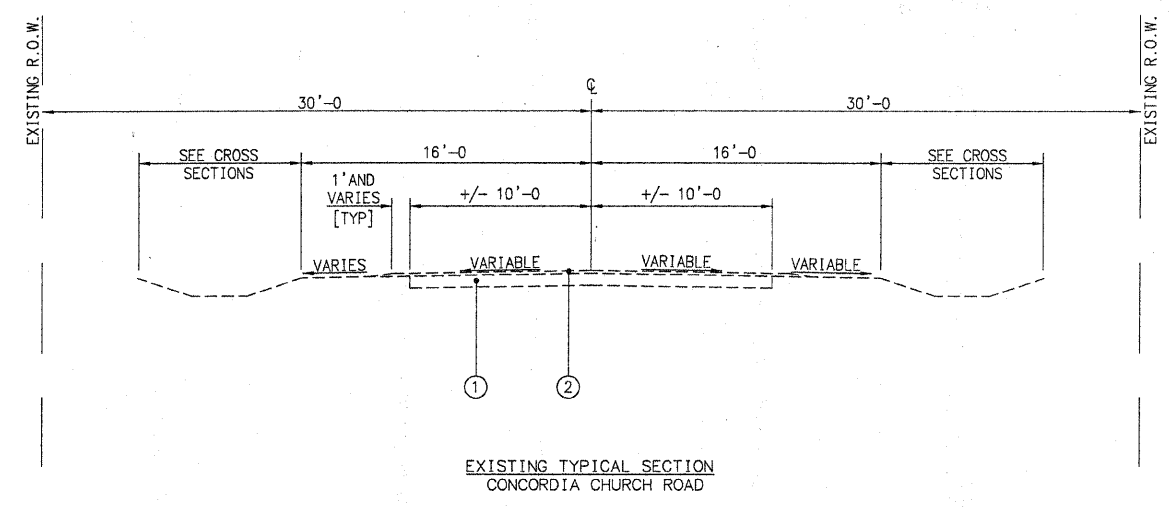
- ALL MATERIAL THAT IS TO BE USED FOR EMBANKMENT SHALL MEET THE ILLINOIS DEPARTMENT OF TRANSPORTATION EMBANKMENT SPECIFICATIONS AS GIVEN IN SECTIONS 202, 204 AND 205 OF THE STANDARD SPECIFICATIONS AND AS FOLLOWS:
 - IT MUST FALL IN TO ONE OF THE FOLLOWING HIGHWAY RESEARCH BOARD CLASSIFICATIONS: A-1, A-2, A-3, A-4, A-6 OR A-7-6.
 - IT SHALL HAVE A LIQUID LIMIT OF 49 OR LESS.
 - ANY A-4, A-6 OR A-7-6 MATERIALS TO BE USED AS BORROW MATERIAL FOR EMBANKMENT CONSTRUCTION SHALL NOT HAVE AN ORGANIC CONTENT GREATER THAN 7 PERCENT.
 - CLASSIFICATION OF THE MATERIAL FOR POINTS 1 AND 2 SHALL BE DETERMINED IN ACCORDANCE WITH THE LATEST AASHTO DESIGNATION: M145
 - WHEN TESTED FOR DENSITY IN PLACE, ANY SOIL CLASSIFIED AS AN A-4 SHALL NOT CONTAIN MORE THAN 100 PERCENT OF THE OPTIMUM MOISTURE CONTENT DETERMINED ACCORDING TO AASHTO T-99.
 - THE OUTSIDE 9 FEET OF THOSE PORTIONS OF THE EMBANKMENT THAT WILL BE PERMANENTLY EXPOSED IN THE COMPLETED ROADWAY SHALL BE CONSTRUCTED USING NATIVE MATERIALS OF A CLASSIFICATION THAT WILL SUPPORT VEGETATION AND CONTAIN A PLASTICITY INDEX OF 12 OR GREATER.

PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	MAY 2008
CHECKED	T HOLDENER	DEC 2008
DRAWN	R GEORGEN	JULY 2008
CHECKED	T HOLDENER	DEC 2008
PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT		

SECTION NO.	HIGHWAY	COUNTY	SHEETS
06-00082-02-PV	22	ST. CLAIR	4 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
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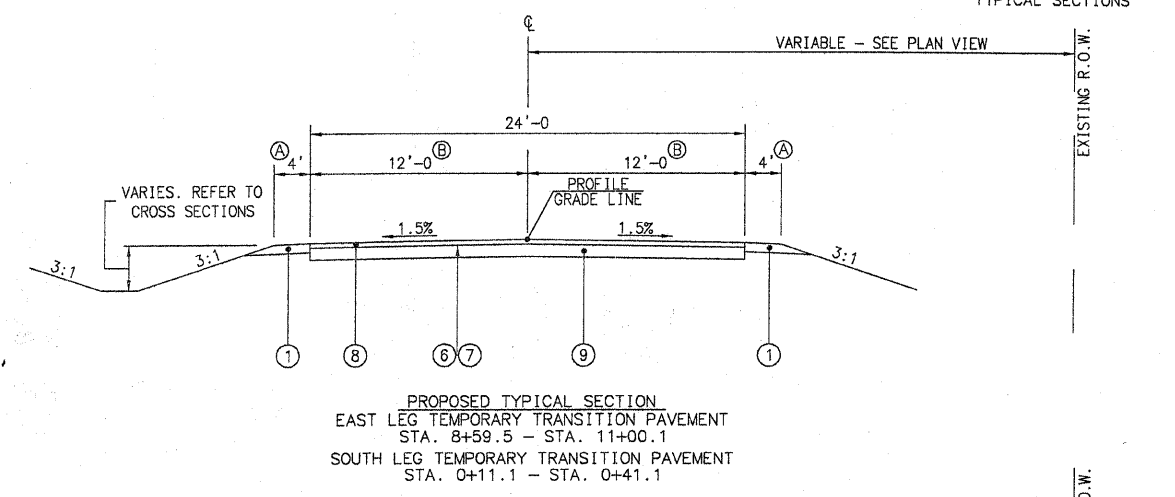
TYPICAL SECTIONS



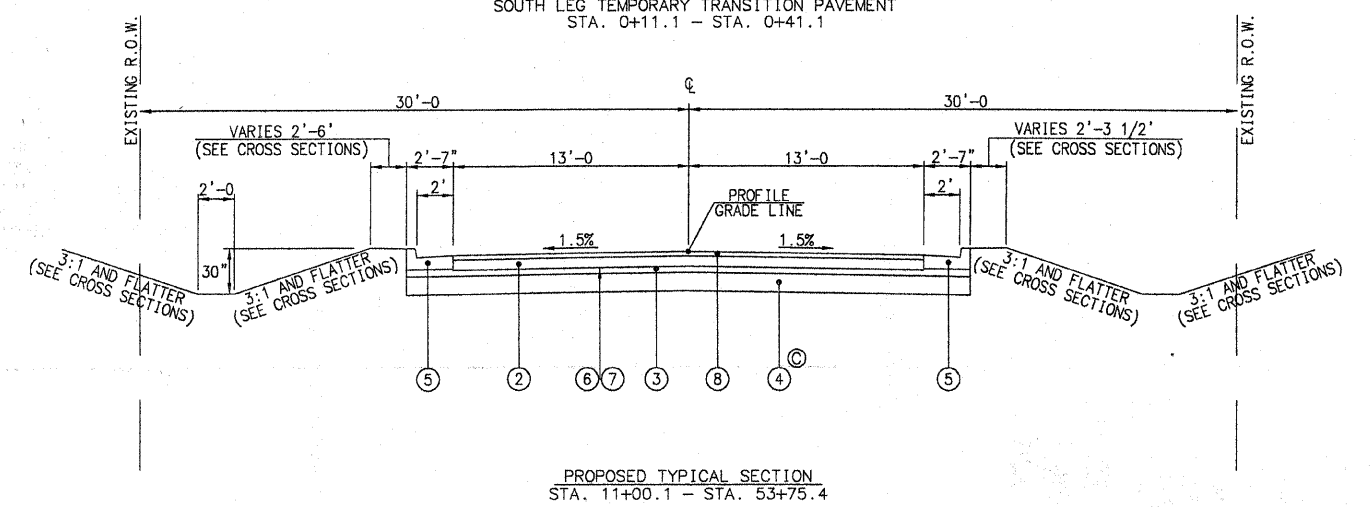
EXISTING TYPICAL SECTION
CONCORDIA CHURCH ROAD

LEGEND

- ① EXISTING AGGREGATE BASE (VARIABLE DEPTH 6-9")
- ② EXISTING BITUMINOUS SURFACE TREATMENT BUILD-UP



PROPOSED TYPICAL SECTION
EAST LEG TEMPORARY TRANSITION PAVEMENT
STA. 8+59.5 - STA. 11+00.1
SOUTH LEG TEMPORARY TRANSITION PAVEMENT
STA. 0+11.1 - STA. 0+41.1



PROPOSED TYPICAL SECTION
STA. 11+00.1 - STA. 53+75.4

NOTE:

- (A) SHOULDER WIDTH ALONG EAST LEG TRANSITIONS FROM STA 8+59.5 TO STA 9+00 AND STA 10+85.1 TO STA 11+00.1
- (B) PAVEMENT WIDTH ALONG EAST LEG TRANSITIONS FROM STA 8+59.5 TO STA 9+00 AND STA 10+85.1 TO STA 11+00.1
- (C) CEMENT, 8% BY DRY WEIGHT, SHALL BE INCORPORATED INTO THE SOIL IN LIEU OF LIME BETWEEN STA.34+00 AND STA.38+00 DUE TO THE PRESENCE OF THE CLAYEY SILT IN THIS AREA.

LEGEND

- ① PROPOSED AGGREGATE SHOULDERS, TYPE A, 6"
- ② PROPOSED HOT-MIX BINDER COURSE, IL-19.0, N70, 6 3/4"
- ③ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A, 4"
- ④ PROPOSED PROCESSING MODIFIED SOIL, 12"
- ⑤ PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑥ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- ⑦ PROPOSED AGGREGATE (PRIME COAT)
- ⑧ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX 'C', N70, 3"
- ⑨ PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A, 8"

**CONCORDIA CHURCH ROAD
STRUCTURAL DESIGN INFORMATION**

HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH) DESIGN
 STRUCTURAL DESIGN TRAFFIC (2019): 2740
 PV = 2,329 SU = 247 MU = 164
 ROADWAY CLASSIFICATION: CLASS II
 PERCENT OF S.D.T. IN DESIGN LANE:
 P = 85% SU = 9% MU = 6%
 TRAFFIC FACTOR: 0.74
 SSR = POOR
 RECOMMENDED PAVEMENT: DESIGN EAC = 490' (AC-20)
 HOT-MIX ASPHALT SURFACE COURSE, MIX 'C', N70, 3"
 HOT-MIX BINDER COURSE, IL-19.0, N70, 6 3/4"
 4" SUB-BASE GRANULAR MATERIAL, TYPE A
 12" PROCESSED MODIFIED SOIL

PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	RGEORGEN	06/08
CHECKED	THOLDENER	12/08
DRAWN	RGEORGEN	06/08
CHECKED	THOLDENER	12/08
PREPARED BY ST. CLAIR COUNTY		
00092-02-PV_Typsecs.dwg		

TABULATION OF QUANTITIES

COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24		
STA. 11+00.1 LT TO STA. 53+53.1 LT	4252.9 FOOT	
STA. 53+53.1 LT TO STA. 54+15.3 LT	61.4 FOOT	
STA. 11+00.1 LT TO STA. 54+08.0 RT	4307.8 FOOT	
STA. 53+53.1 LT TO STA. 54+46.2 RT	39.7 FOOT	
TOTAL: 8662.0 FOOT		

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED 25% FOR SHRINKAGE	EMBANKMENT	ADDITIONAL EXCAVATED MATERIAL FROM STORM SEWER CONSTRUCTION ADJUSTED FOR SHRINKAGE		EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
				CU YDS	CU YDS	
STA. 8+59.5 TO STA. 11+00.1	30	23	264	-	-	
STA. 11+11.1 TO STA. 54+15.3	1933	1449	7030	8630	+2808	
TOTALS	1963	1472	7294	8630	+2808	

SEEDING SCHEDULE

LOCATION	SEEDING CL 2 [ACRE] 25000200	TEMP EROS CONTR SEED [POUND] 28000250	NUTRIENTS				MULCH METHOD 2 [ACRE] 25100115
			NITROGEN FERT NUTR [POUND] 25000400	PHOSPHOROUS FERT NUTR [POUND] 25000500	POTASSIUM FERT NUTR [POUND] 25000600	MULCH METHOD 2 [ACRE] 25100115	
STA. 8+59.46 - STA. 11+00.14 LT	0.070	7.0	6.3	6.3	6.3	SAME QUANTITIES AS 25000200	
STA. 8+59.46 - STA. 11+00.14 RT	0.036	3.6	3.2	3.2	3.2		
STA. 11+00.14 - STA. 16+29.85 LT	0.188	18.8	16.9	16.9	16.9		
STA. 11+00.14 - STA. 13+14.07 RT	0.082	8.2	7.4	7.4	7.4		
STA. 13+20.39 - STA. 23+37.51 RT	0.294	29.4	26.5	26.5	26.5		
STA. 16+43.40 - STA. 34+31.00 LT	0.508	50.8	45.7	45.7	45.7		
STA. 23+50.60 - STA. 25+80.73 RT	0.057	5.7	5.1	5.1	5.1		
STA. 25+94.64 - STA. 34+31.00 RT	0.228	22.8	20.5	20.5	20.5		
STA. 34+31.00 - STA. 50+62.44 LT	0.442	44.2	39.8	39.8	39.8		
STA. 34+31.00 - STA. 34+41.21 RT	0.002	0.2	0.2	0.2	0.2		
STA. 34+58.89 - STA. 39+82.89 RT	0.125	12.5	11.3	11.3	11.3		
STA. 39+92.80 - STA. 40+98.50 RT	0.026	2.6	2.3	2.3	2.3		
STA. 41+13.00 - STA. 49+99.71 RT	0.231	23.1	20.8	20.8	20.8		
STA. 50+16.84 - STA. 54+47.32 RT	0.112	11.2	10.1	10.1	10.1		
STA. 50+84.29 - STA. 54+19.83 LT	0.085	8.5	7.7	7.7	7.7		
TOTALS	2.5	250	225	225	225		2.5

ENTRANCE SCHEDULE

LOCATION	ENTRANCE TYPE	EXISTING MATERIAL	DRIVE PAVEMENT REM	PIPE CULVERT REMOV	AGG BASE CSE B 4	AGG BASE CSE B 6	PCC DRIVEWAY PVT 6	BIT MATLS PR CT	AGG PR CT	INCIDENTAL HMA SURF	AGG BASE CSE A 4	APRON
			[SQ YD] 44000200	[FOOT] 50105220	[SQ YD] 35101600	[SQ YD] 35101800	[SQ YD] 42300200	[GALLON] 40800010	[TON] 40800030	[TON] 40800050	[SQ YD] 35100300	
STA. 9+68 RT	CE	ROCK				78.1						N/A
STA. 13+21 RT	PE	ROCK		21.7	52.2							17.4'
STA. 16+37 LT	PE	ROCK		29.8	15.6							20.0'
STA. 22+93 RT	FE	DIRT		21.7								16.6'
STA. 23+43 RT	PE	ROCK		21.0	13.0							14.1'
STA. 25+87 RT	PE	ROCK		32.0	15.1							18.4'
STA. 33+03 RT	FE	DIRT										19.5'
STA. 34+51 RT	PE	BIT	40.9	20.0				4.2	0.04	1.3	11.9	18.1'
STA. 36+72 LT	FE	DIRT		48.0								24.0'
STA. 39+88 RT	PE	ROCK		26.0	4.3							12.0'
STA. 41+06 RT	PE	CONC	7.9	24.0								14.8'
STA. 50+09 RT	PE	ROCK		27.1	17.1							19.8'
STA. 50+76 LT	PE	ROCK		30.4	8.7							24.0'
TOTALS			48.8	301.7	126.0	78.1	207.7	4.2	0.04	1.3	11.9	

PAVEMENT SCHEDULE

LOCATION	PROCESS MOD SOIL 12	LIME	PORTLAND CEMENT	SUB GRAN MAT A 4	SUB GRAN MAT A 8	BIT MATLS PR CT	AGG PR CT	HMA BC 1L-19.0 N70	HMA SC "C" N70	AGGREGATE SHILDS A 6
	[SQ YD] 30200650	[TON] 30201500	[TON] 30201700	[SQ YD] 31100300	[SQ YD] 31100700	[GALLON] 40600100	[TON] 40600300	[TON] 40603085	[TON] 40603315	[SQ YD] 48100500
STA. 8+59.5 - STA. 11+11.04	7962.63	218.97		7962.63	642.3	275.5	2.3	2511.45	132.21	172.6
STA. 11+00.14 - STA. 34+00	107.33		4.44	107.33				33.85	1116.20	
STA. 34+00 - STA. 34+31.00	1277.56		52.89	1277.56				402.95	179.09	
STA. 34+31.00 - STA. 38+00	5454.39	150.00		5454.39				1720.34	764.60	
STA. 38+00 - STA. 53+75.40	164.90	4.54		164.90				50.01	22.23	
STA. 53+75.40 - STA. 54+46.18										
TOTALS	14967	373.5	57.3	14967	642	276	2.3	4718.6	2229.4	172.6

PAVEMENT REMOVAL SCHEDULE

LOCATION	PAVEMENT REM [SQ YD] 44000100
STA. 8+59.5 - STA. 11+11.04	788.50
STA. 11+00.14 - STA. 34+31	5591.57
STA. 34+31 - STA. 53+60.13	4573.73
STA. 53+60.13 - STA. 54+15.29	159.79
TOTALS	11114

PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	OCT 2008
CHECKED	T HOLDENER	DEC 2008
DRAWN	R GEORGEN	OCT 2008
CHECKED	T HOLDENER	DEC 2008

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT FILE NAME: 00092-02-PV Tab of Quant.dwg

STORM SEWER SCHEDULE - RIGHT SIDE

FROM	TO	STATION - OFFSET	STRUCTURE		BOTTOM OF FRAME ELEVATION	INLETS, SPECIAL (SEE DETAIL ELSEWHERE IN PLANS)						INLETS		FRAME AND GRATE TYPE (SEE NOTE 1)	PRECAST FLAT SLAB TOP		SS 1 RCP CL 2 42	SS 1 RCP CL 4 12	SS 1 RCP CL 4 15	SS 1 RCP CL 4 18	SS 1 RCP CL 4 24	SS 2 RCP CL 3 18	SS 1 RCEP S23 R14	SS 2 RCEP S23 R14	SS PVC 10 (SPECIAL)	TRENCH BACKFILL (CU.YDS)	REINFORCED CONCRETE PIPE TEE		PRECAST REINFORCED CONC FLARED END SECTION				REINF CONC PIPE ELBOW																			
			NO.	DESC.		NO 1	NO 2	NO 3	NO 4	NO 5	NO 6	STD. 602301	STD. 602306		3'	4'											12P 12R	18P 12R	12	18	24	42	12	18																		
						4 x 4	4 x 4 1/2	4 x 5 1/2	4 x 6 1/2	7 x 4	7 x 7	TYPE A	TYPE B																																							
1	15	STA. 11+10 - 17.08' RT	15	INLETS, SPECIAL	538.27	X																	34			11.1																										
15	16	STA. 12+24 - 17.08' RT	16	INLETS, SPECIAL	538.61	X																		111			44.9																									
16	17	STA. 14+74 - 17.08' RT	17	INLETS, SPECIAL	538.22	X																		241			88.1	X																								
F.E.S.	TEE	STA. 13+39 - 31.30' RT		F.E.S.														6																																		
17	18	STA. 16+60 - 17.08' RT	18	INLETS, SPECIAL	537.73	X												183									47.1																									
18	19	STA. 16+70 - 17.08' RT	19	INLETS, SPECIAL	537.73	X												7									1.4																									
19	20	STA. 18+62 - 14.04' RT	20	INLET	537.79							X	TYPE 24				190									1.4																										
20	21	STA. 21+12 - 14.04' RT	21	INLET	538.54							X	TYPE 24				249									24.2																										
21	22	STA. 23+62 - 14.04' RT	22	INLET	539.29							X	TYPE 24				243									24.2	X																									
F.E.S.	TEE	STA. 22+66 - 24.23' RT		F.E.S.													2									0.4																										
22	23	STA. 26+12 - 14.04' RT	23	INLET	540.04							X	TYPE 24				249									28.6											X															
F.E.S.	23	STA. 26+12 - 25.71' RT		F.E.S.													5									0.3											X															
23	24	STA. 28+29 - 14.04' RT	24	INLET	540.69							X	TYPE 24				216									8.8																										
F.E.S.	24	STA. 28+29 - 23.97' RT		F.E.S.													3									0.4												X														
24	25	STA. 30+79 - 14.04' RT	25	INLET	541.82							X	TYPE 24				249									6.0																										
26	27	STA. 34+25 - 25.50' RT	26	INLET	542.34							X	R-4341-A				153									2.5																										
		STA. 35+79 - 14.04' RT	27	INLET	541.62							X	TYPE 24																																							
27	28	STA. 38+29 - 14.04' RT	28	INLET	540.00							X	TYPE 24				249									6.0																										
28	29	STA. 40+83 - 14.04' RT	29	INLET	538.23							X	TYPE 24				253									8.2																										
29A	29	STA. 40+83 - 22.37' RT	29A	INLET	538.20							X	R-4341-A				7									0.4																										
29	30	STA. 43+33 - 17.08' RT	30	INLETS, SPECIAL	536.41	X											248									21.3																										
30A	30	STA. 43+33 - 23.89' RT	30A	INLET	535.97							X	R-4341-A				5																																			
30	31	STA. 44+86 - 17.08' RT	31	INLETS, SPECIAL	535.10	X											150									17.8																										
31	32	STA. 45+89 - 17.08' RT	32	INLETS, SPECIAL	534.77	X											100									10.9																										
32	F.E.S.	STA. 46+80.49 - 27.84' RT		F.E.S.																				93		20.2											X															X

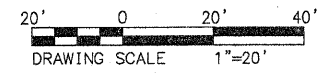
NOTE 1: R-4341-A DENOTES NEENAH FOUNDRY R-4341-A OR EQUIVALENT DITCH GRATE.

Subtotals:	8						12					2327	440	93	386			374.2	1	1	4	1																														1
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PLOT DATE: 11.24.2009

SECTION NO.	HIGHWAY	COUNTY	SHEETS
06-00092-02-PV	22	ST. CLAIR	10 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011 (297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

PLAN VIEW BEGINNING - STA. 11+20



STA. X PROPOSED C ILLINOIS ROUTE 158=
STA. 6+15.0 C CONCORDIA CHURCH ROAD

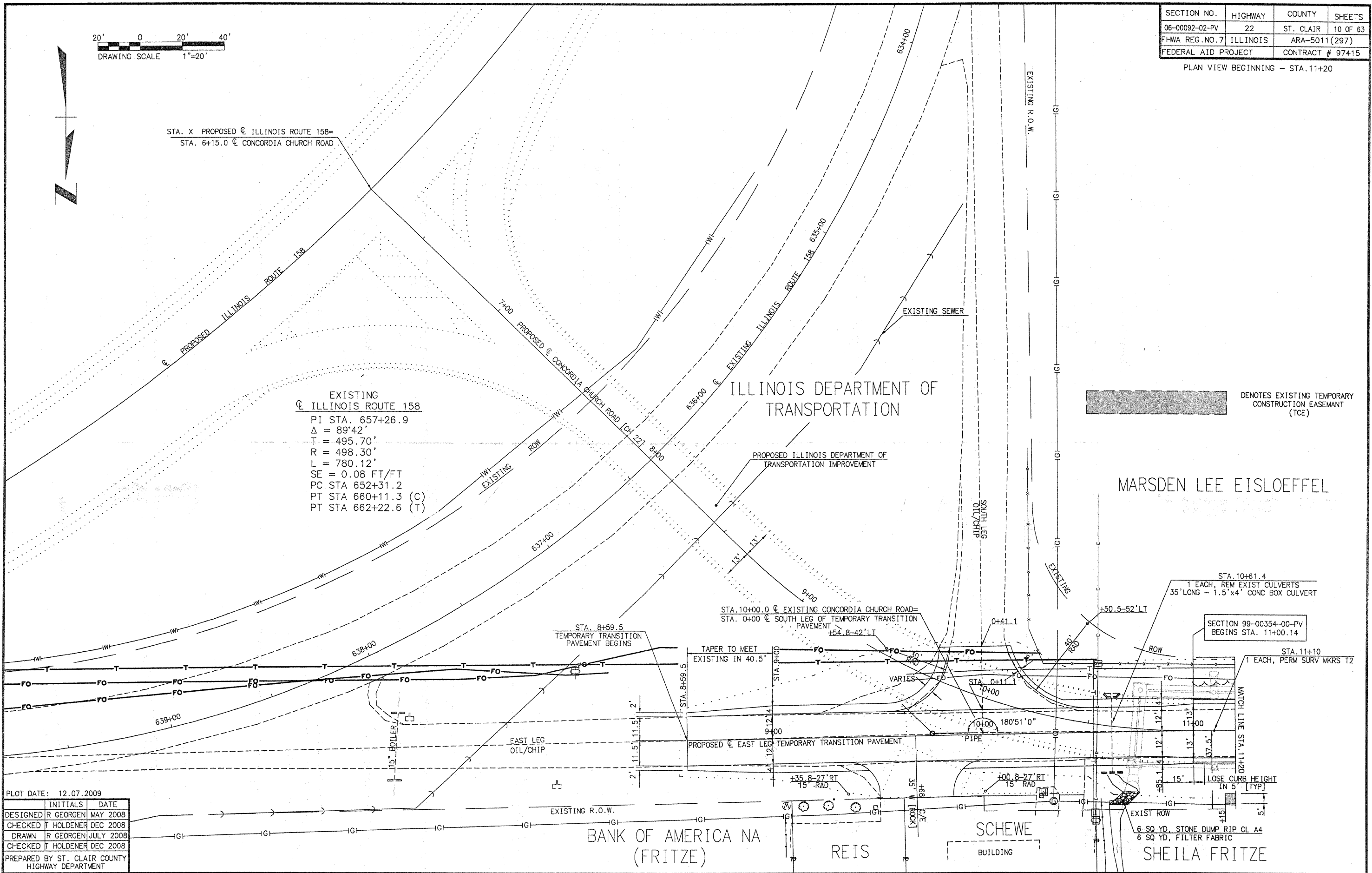
EXISTING
C ILLINOIS ROUTE 158
PI STA. 657+26.9
 $\Delta = 89^{\circ}42'$
T = 495.70'
R = 498.30'
L = 780.12'
SE = 0.08 FT/FT
PC STA 652+31.2
PT STA 660+11.3 (C)
PT STA 662+22.6 (T)

ILLINOIS DEPARTMENT OF
TRANSPORTATION



DENOTES EXISTING TEMPORARY
CONSTRUCTION EASEMENT
(TCE)

MARSDEN LEE EISLOEFFEL



PLOT DATE: 12.07.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	MAY 2008
CHECKED	T HOLDENER	DEC 2008
DRAWN	R GEORGEN	JULY 2008
CHECKED	T HOLDENER	DEC 2008

PREPARED BY ST. CLAIR COUNTY
HIGHWAY DEPARTMENT

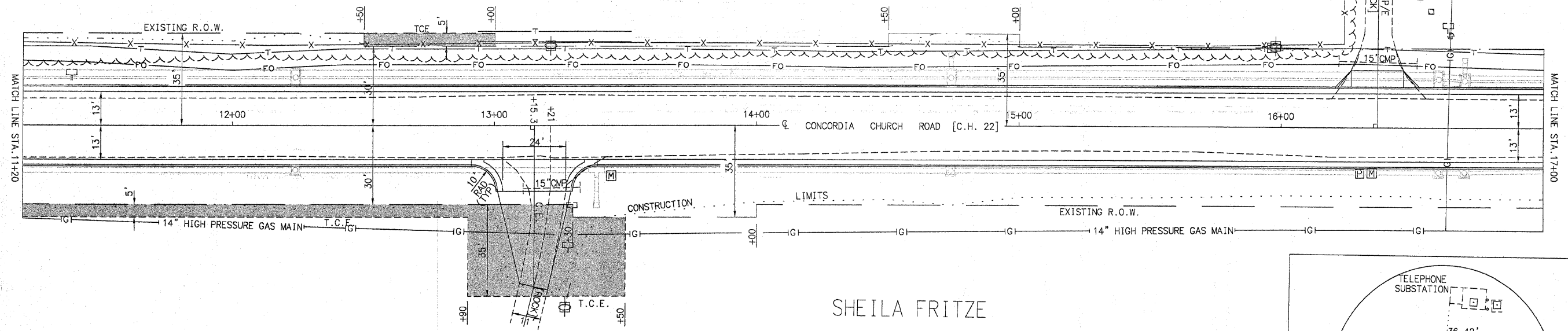
SECTION NO.	HIGHWAY	COUNTY	SHEETS
06-00092-02-PV	22	ST. CLAIR	11 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011 (297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

DENOTES EXISTING TEMPORARY
CONSTRUCTION EASEMENT
(T.C.E.)

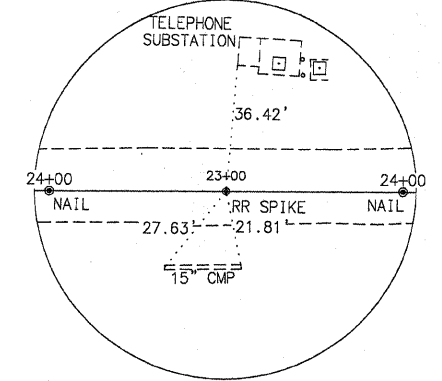
20' 0 20' 40'
DRAWING SCALE 1"=20'

MARSDEN LEE EISLOEFFEL

PLAN VIEW STA. 11+20 - STA. 23+00



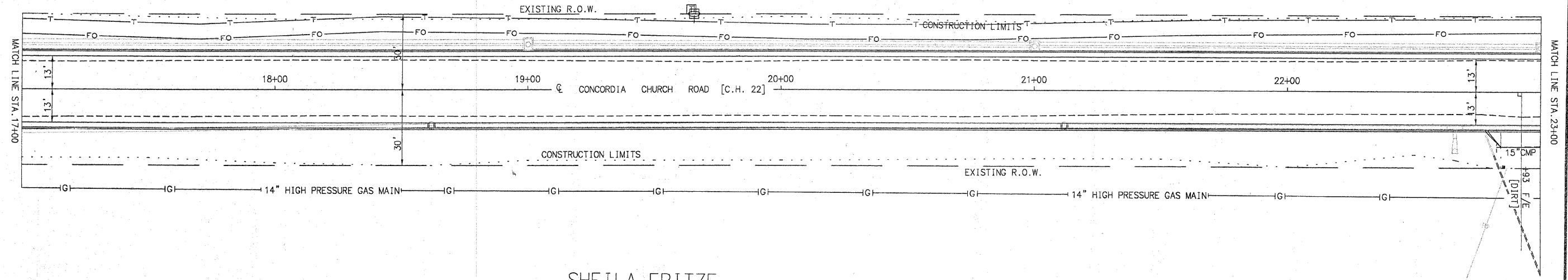
SHEILA FRITZE



P.O.T. STA. 23+00
SET R.R. SPIKE

20' 0 20' 40'
DRAWING SCALE 1"=20'

MARSDEN LEE EISLOEFFEL



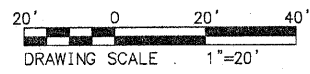
SHEILA FRITZE

HEIDORN

PLOT DATE: 11.25.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	MAY 2008
CHECKED	T HOLDENER	DEC 2008
DRAWN	R GEORGEN	JULY 2008
CHECKED	T HOLDENER	DEC 2008

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT
FILE NAME: 00092-02-PV PLN 1120-2300.dwg

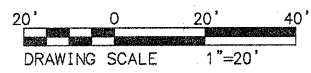
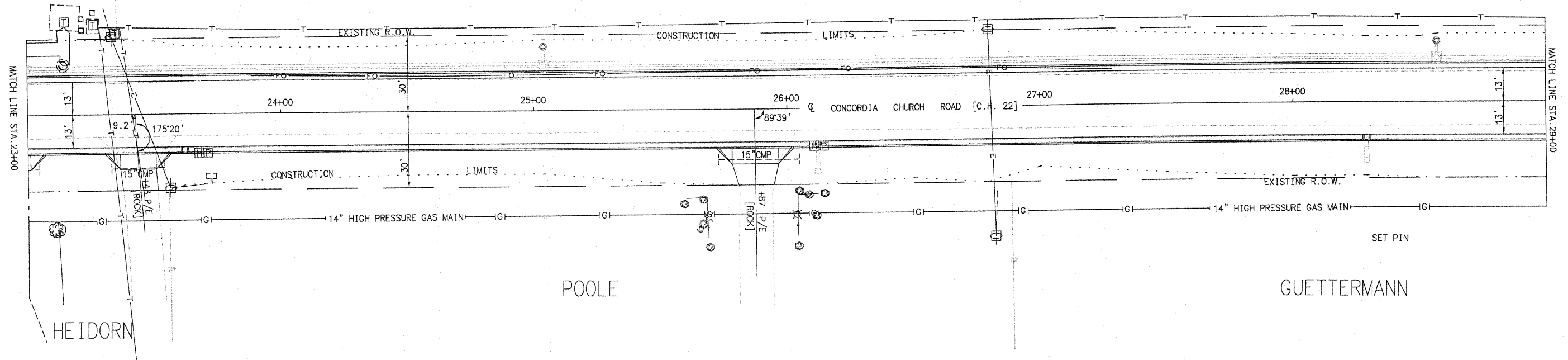


MARSDEN LEE
EISLOEFFEL

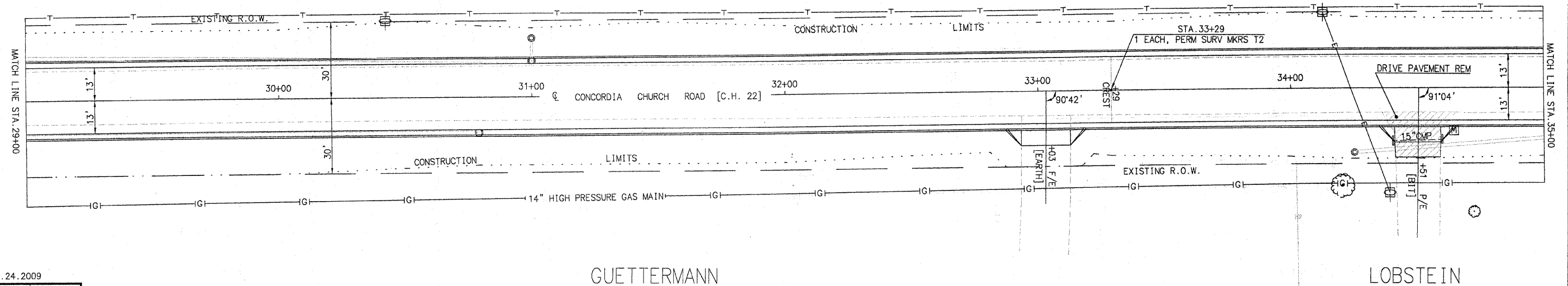
REHKEMPER FAMILY
PARTNERSHIP

SECTION NO.	HIGHWAY	COUNTY	SHEETS
06-00092-02-PV	22	ST. CLAIR	12 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011 (297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

PLAN VIEW STA. 23+00 - STA. 35+00



REHKEMPER FAMILY
PARTNERSHIP



PLOT DATE: 11.24.2009

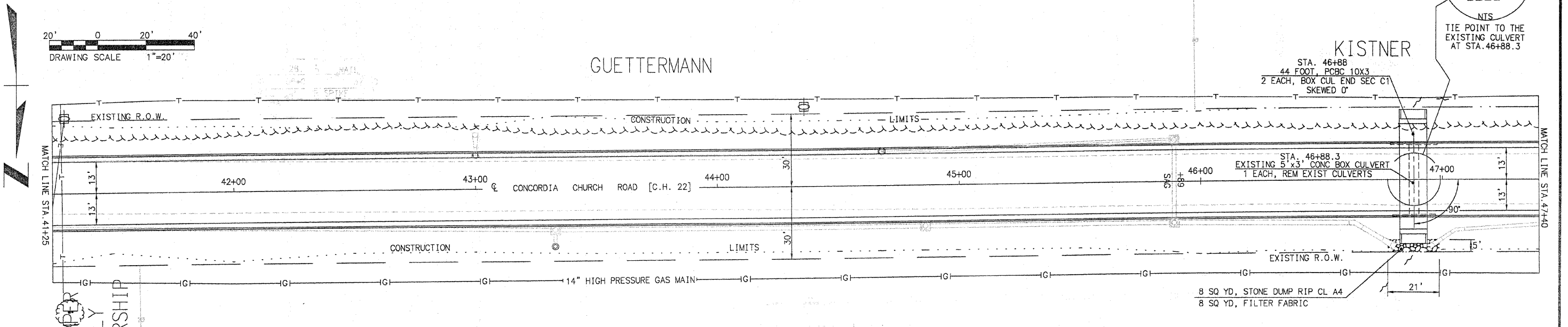
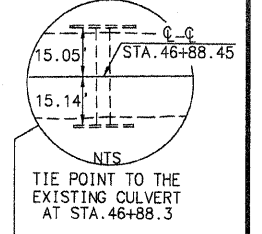
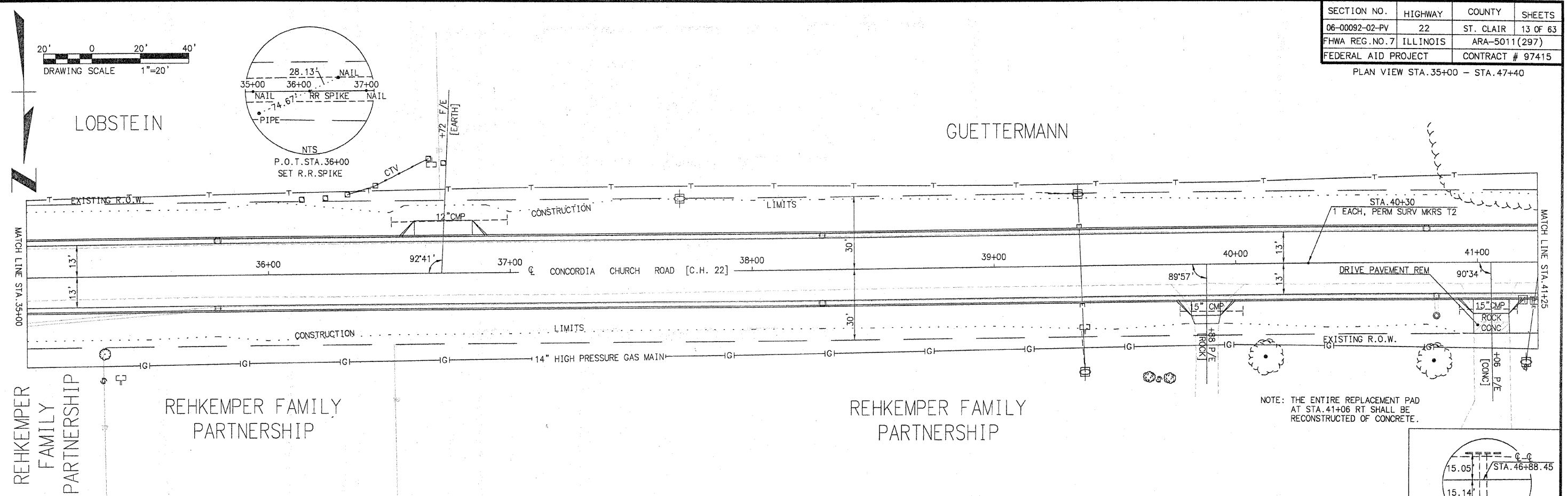
	INITIALS	DATE
DESIGNED	R GEORGEN	MAY 2008
CHECKED	T HOLDENER	DEC 2008
DRAWN	R GEORGEN	JULY 2008
CHECKED	T HOLDENER	DEC 2008

PREPARED BY ST. CLAIR COUNTY
HIGHWAY DEPARTMENT

FILE NAME: 00092-02-PV PLN 2300-3500.dwg

SECTION NO.	HIGHWAY	COUNTY	SHEETS
06-0092-02-PV	22	ST. CLAIR	13 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

PLAN VIEW STA. 35+00 - STA. 47+40



WATERWAY INFORMATION TABLE FOR STRUCTURE AT STA. 46+88

DRAINAGE AREA: 0.089 SQ MI		EXISTING LOW GRADE ELEVATION: 534.1 @ STA. 46+52		PROPOSED LOW GRADE ELEVATION: 535.4 @ STA. 45+89		
FLOOD	FREQUENCY (year)	DISCHARGE (cfs)	WATERWAY OPENING (sq ft)	NATURAL H.W.E.	HEAD (ft)	HEADWATER ELEVATION
DESIGN	30	97	EXISTING 15.0 PROPOSED 25.3	532.80	0.90	EXISTING 533.70 PROPOSED 533.40
BASE	100	168	EXISTING 15.0 PROPOSED 37.3	533.20	1.50	EXISTING 534.70 PROPOSED 534.60
OVERTOPPING MAX. CALC.						

10 YR VELOCITY THROUGH EXISTING BRIDGE: 1.6 FPS 10 YR VELOCITY THROUGH PROPOSED BRIDGE: 2.3 FPS

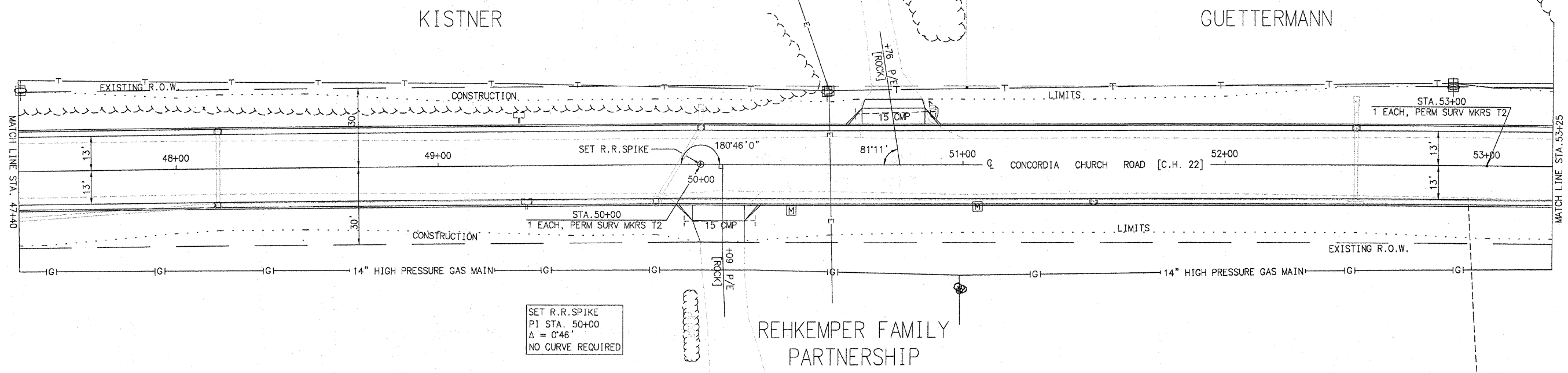
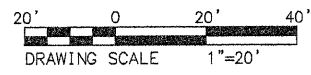
PLOT DATE: 11.24.2009

INITIALS	DATE
DESIGNED R GEORGEN	MAY 2008
CHECKED T HOLDENER	DEC 2008
DRAWN R GEORGEN	JULY 2008
CHECKED T HOLDENER	DEC 2008

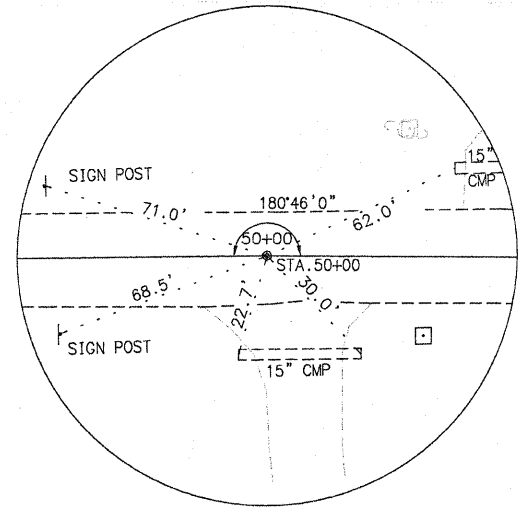
PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT
FILE NAME: 00092-02-PV PLN 3500-4740.dwg

SECTION NO.	HIGHWAY	COUNTY	SHEETS
06-00092-02-PV	22	ST. CLAIR	14 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011 (297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

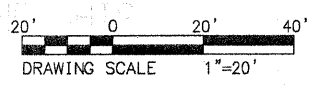
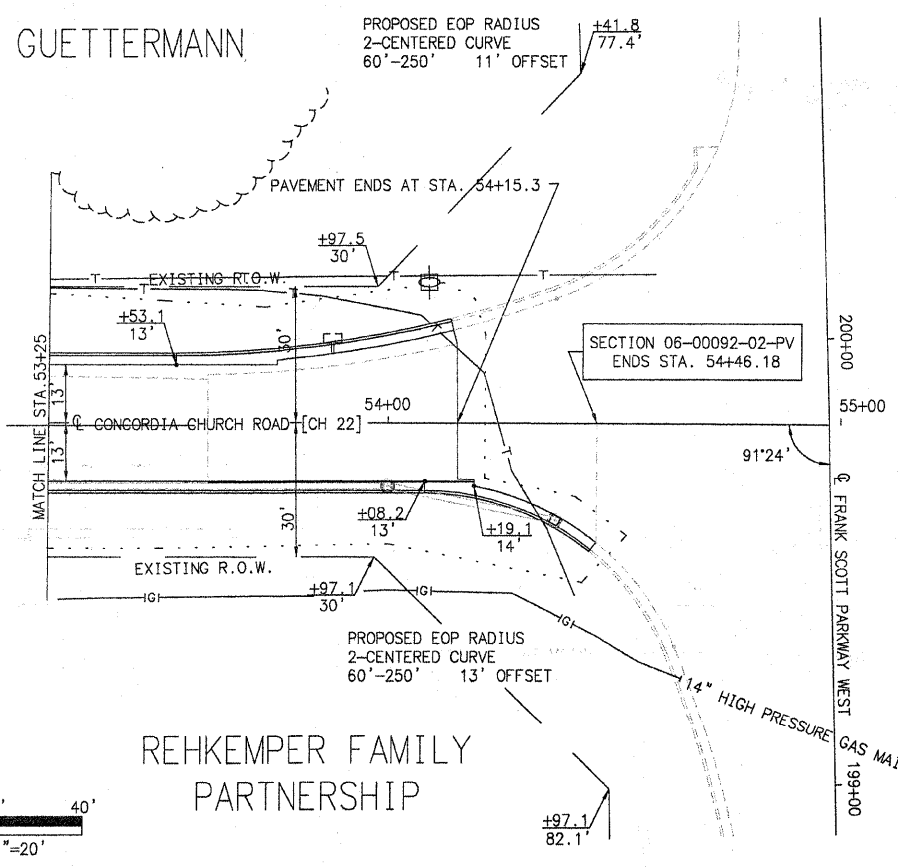
PLAN VIEW STA. 47+40 - END



SET R.R. SPIKE
 P.I. STA. 50+00
 $\Delta = 0^{\circ}46'$
 NO CURVE REQUIRED



P.I. STATION 50+00
 SET R.R. SPIKE



PLOT DATE: 11.24.2009

INITIALS	DATE
DESIGNED R GEORGEN	MAY 2008
CHECKED T HOLDENER	DEC 2008
DRAWN R GEORGEN	JULY 2008
CHECKED T HOLDENER	DEC 2008

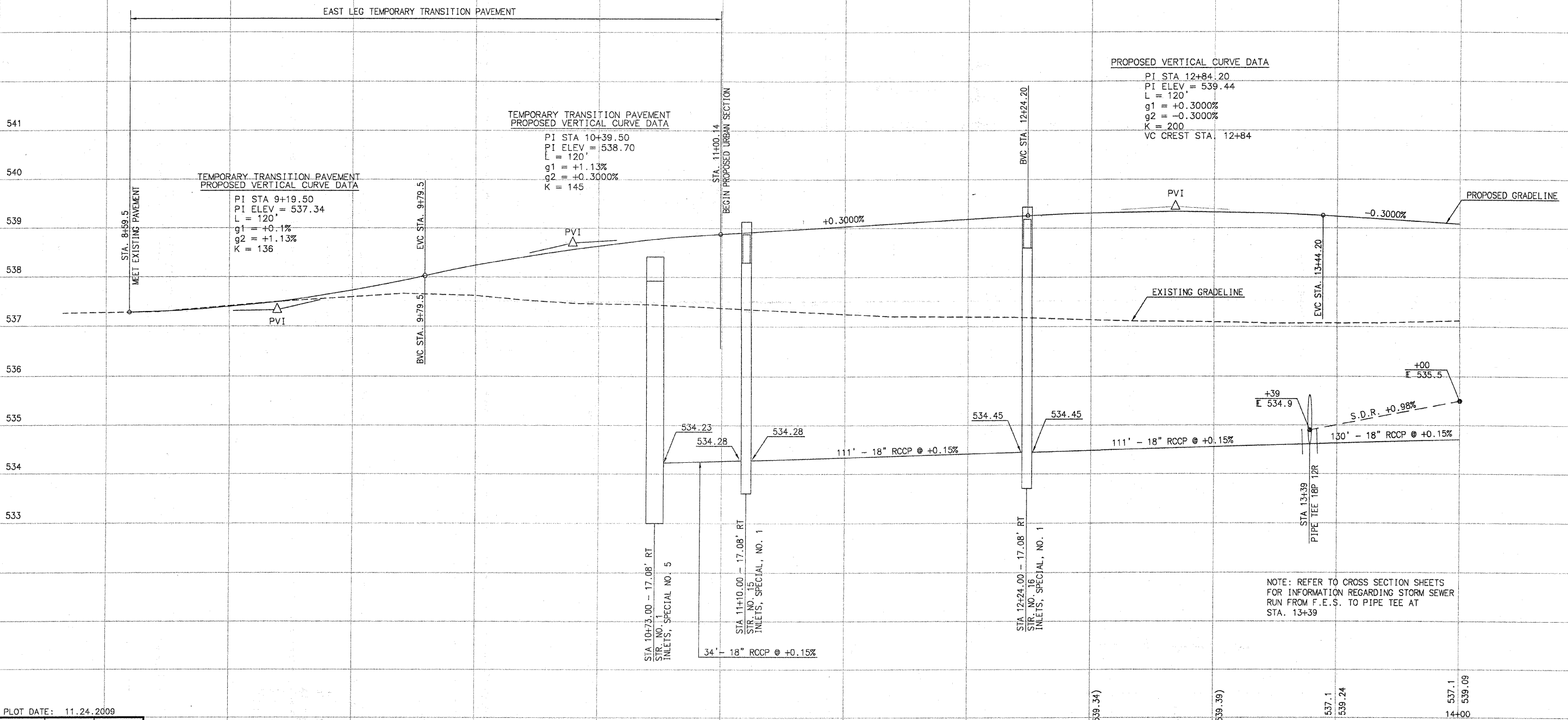
PREPARED BY ST. CLAIR COUNTY
 HIGHWAY DEPARTMENT

FILE NAME: 00092-02-PV PLN 4740-END.dwg

SCALE:
1" = 20' HORIZ.
1" = 1' VERT.

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	15 OF 63
FHWA REG. NO. 7 ILLINOIS		ARA-5011(297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

PROFILE VIEW - RIGHT SIDE



NOTE: REFER TO CROSS SECTION SHEETS FOR INFORMATION REGARDING STORM SEWER RUN FROM F.E.S. TO PIPE TEE AT STA. 13+39

PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	4/08
CHECKED	T HOLDENER	12/08
DRAWN	R GEORGEN	4/08
CHECKED	T HOLDENER	12/08

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

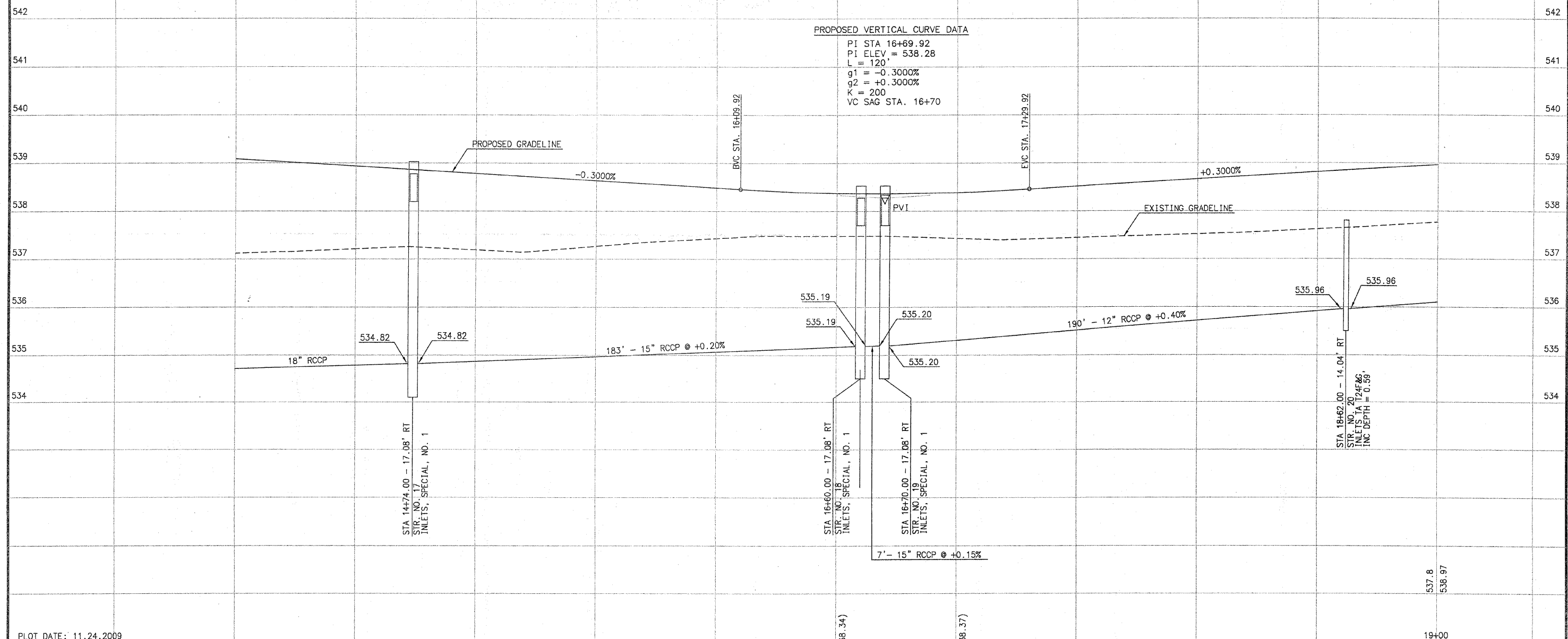
537.4	537.39	537.6	537.72	537.6	538.24	537.5	538.64	537.4	538.88	537.3	539.03	537.2	539.18	537.1	539.34	537.1	539.39	537.1	539.24	537.1	539.09	539.09
9+00		10+00		11+00		12+00		13+00		14+00												

RIGHT SIDE

SCALE:
1" = 20' HORIZ.
1" = 1' VERT.

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	16 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011 (297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

PROFILE VIEW - RIGHT SIDE



PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	4/08
CHECKED	T HOLDENER	12/08
DRAWN	R GEORGEN	4/08
CHECKED	T HOLDENER	12/08

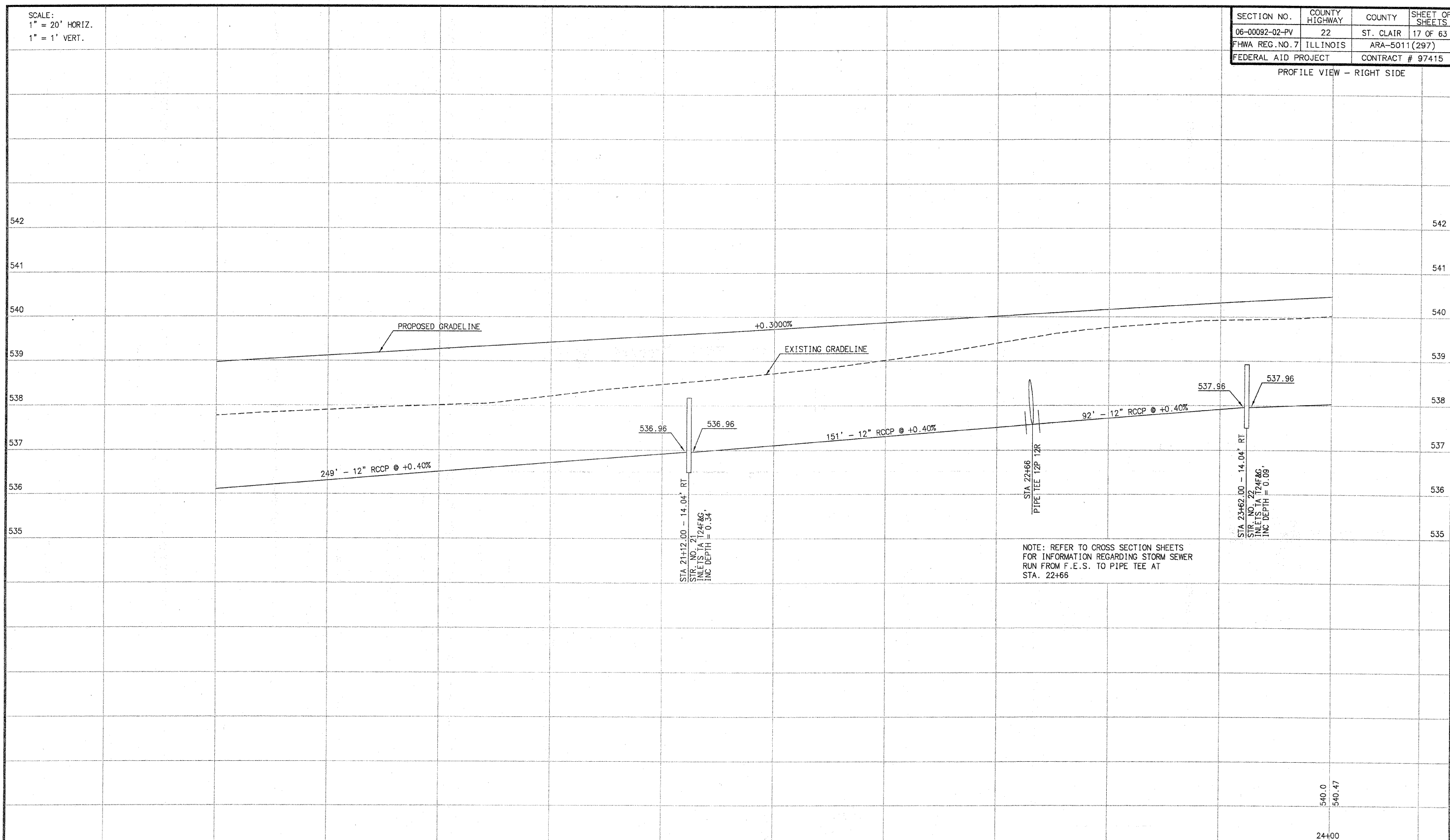
PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

RIGHT SIDE

SCALE:
1" = 20' HORIZ.
1" = 1' VERT.

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	17 OF 63
FHWA REG.NO.7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

PROFILE VIEW - RIGHT SIDE



PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	4/08
CHECKED	T HOLDENER	12/08
DRAWN	R GEORGEN	4/08
CHECKED	T HOLDENER	12/08

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

537.8
538.97
19+00

537.9
539.12
20+00

538.0
539.27
20+00

538.2
539.42

538.5
539.57
21+00

538.7
539.72

539.0
539.87
22+00

539.4
540.02

539.8
540.17
23+00

539.9
540.32

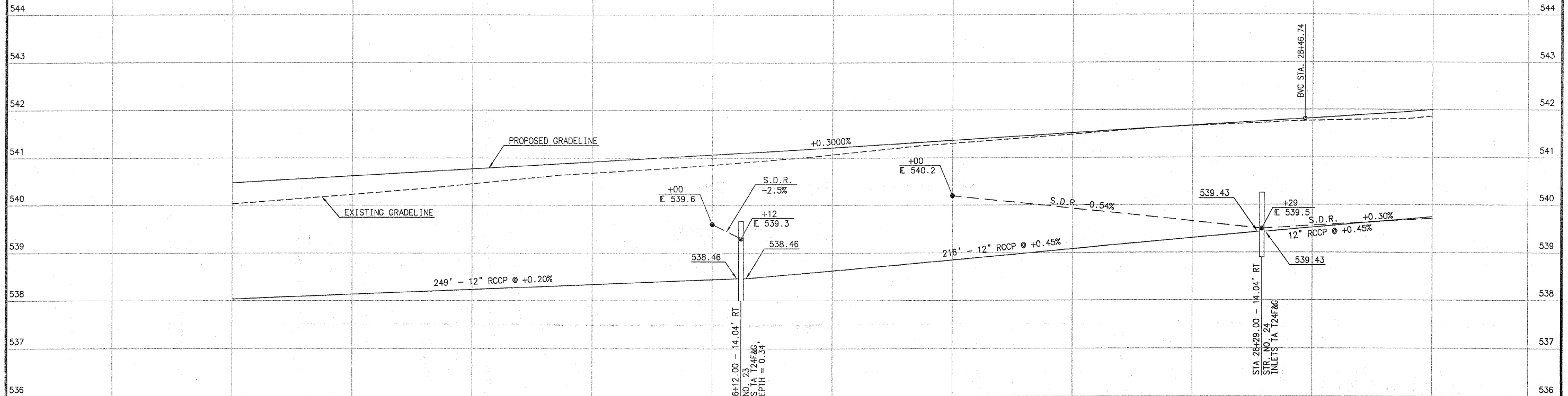
540.0
540.47
24+00

RIGHT SIDE

SCALE:
 1" = 20' HORIZ.
 1" = 1' VERT.

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	18 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

PROFILE VIEW - RIGHT SIDE



NOTE: REFER TO CROSS SECTION SHEETS FOR INFORMATION REGARDING STORM SEWER RUN FROM F.E.S. TO STR. NO. 23

NOTE: REFER TO CROSS SECTION SHEETS FOR INFORMATION REGARDING STORM SEWER RUN FROM F.E.S. TO STR. NO. 24

PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	4/08
CHECKED	T HOLDENER	12/08
DRAWN	R GEORGEN	4/08
CHECKED	T HOLDENER	12/08

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

540.0
540.47

540.2
540.62

540.5
540.77

540.7
540.92

540.9
541.07

541.1
541.22

541.3
541.37

541.5
541.52

541.7
541.67

541.8
541.82 (541.82)

541.9
542.00 (541.97)

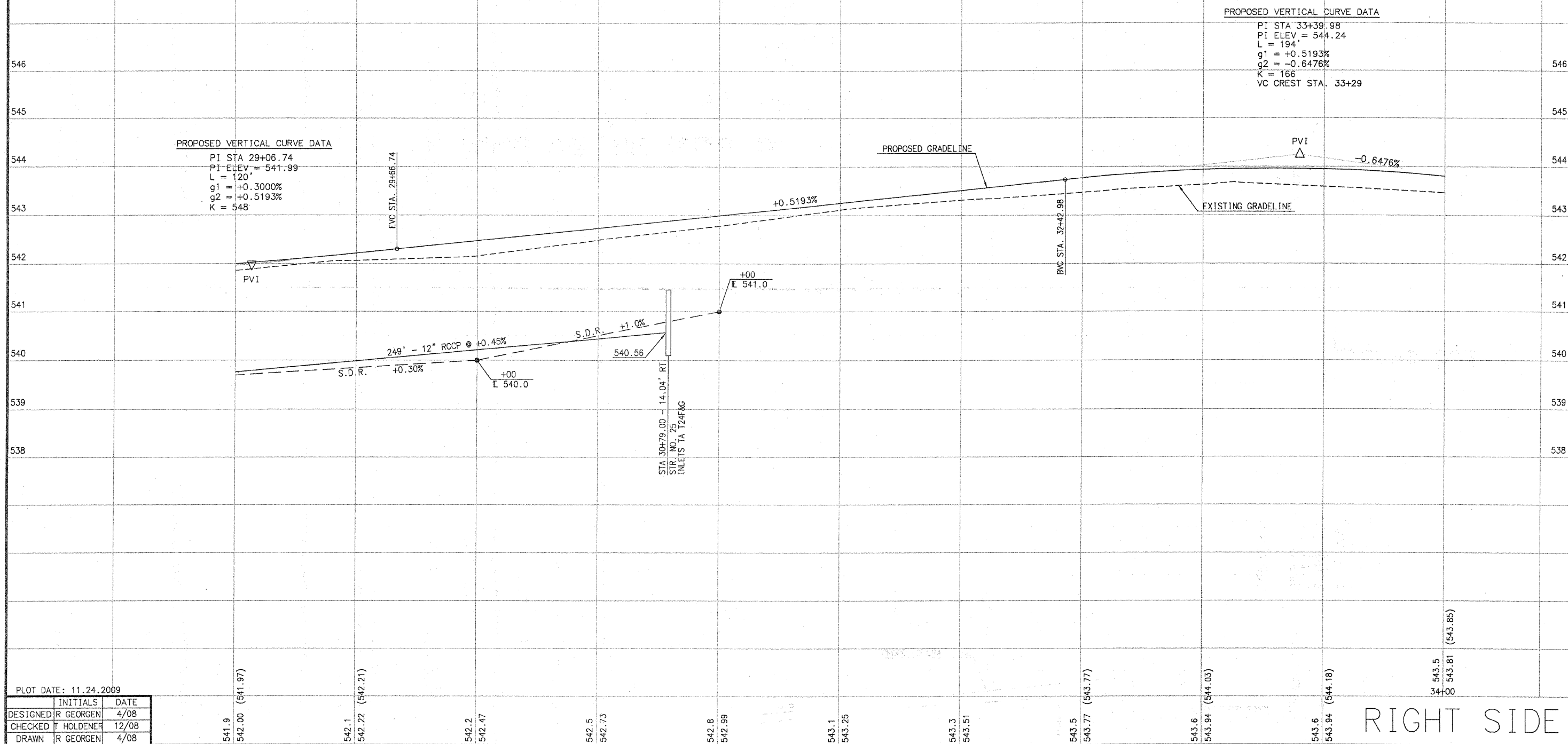
29+00

RIGHT SIDE

SCALE:
 1" = 20' HORIZ.
 1" = 1' VERT.

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	19 OF 63
FHWA REG.NO.7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

PROFILE VIEW - RIGHT SIDE



PROPOSED VERTICAL CURVE DATA

PI STA 29+06.74
 PI ELEV = 541.99
 L = 120'
 g1 = +0.3000%
 g2 = +0.5193%
 K = 548

PROPOSED VERTICAL CURVE DATA

PI STA 33+39.98
 PI ELEV = 544.24
 L = 194'
 g1 = +0.5193%
 g2 = -0.6476%
 K = 166
 VC CREST STA. 33+29

PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	4/08
CHECKED	T HOLDENER	12/08
DRAWN	R GEORGEN	4/08
CHECKED	T HOLDENER	12/08

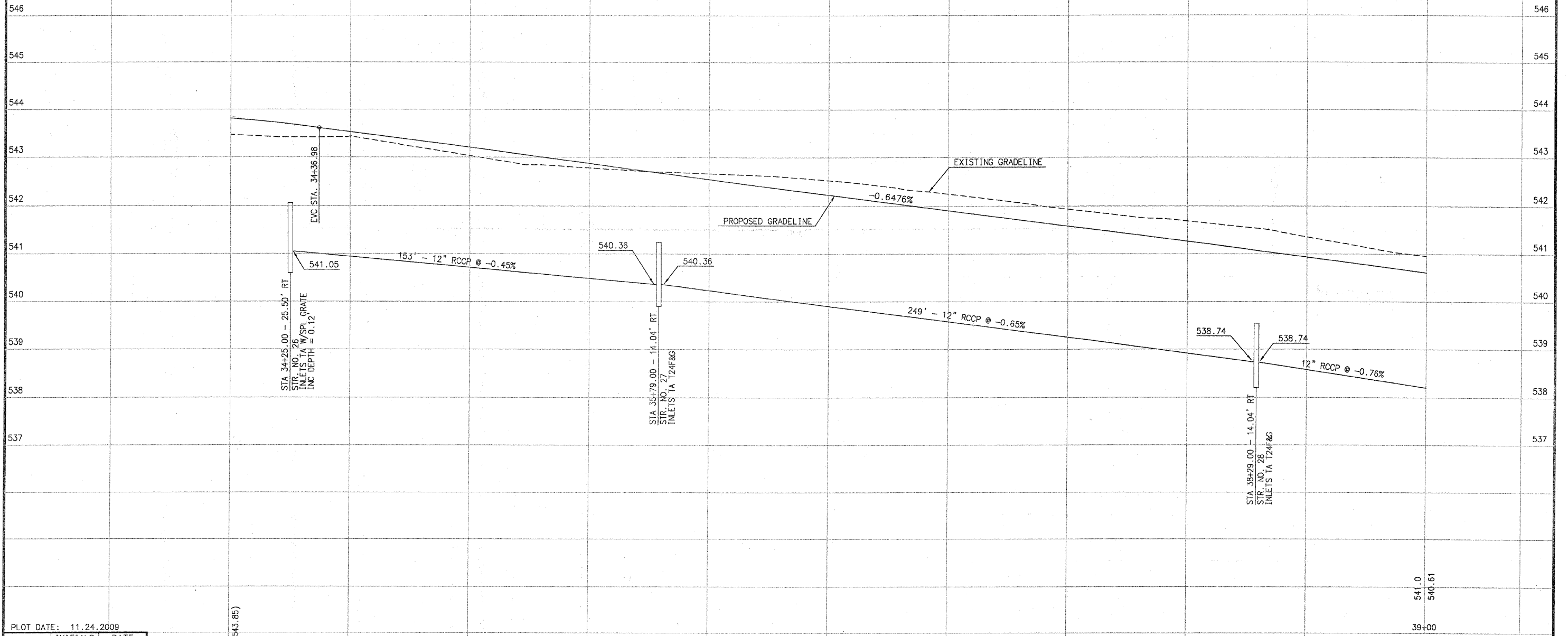
PREPARED BY ST. CLAIR COUNTY
 HIGHWAY DEPARTMENT

RIGHT SIDE

SCALE:
 1" = 20' HORIZ.
 1" = 1' VERT.

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-0092-02-PV	22	ST. CLAIR	20 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011 (297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

PROFILE VIEW - RIGHT SIDE



PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	4/08
CHECKED	T HOLDENER	12/08
DRAWN	R GEORGEN	4/08
CHECKED	T HOLDENER	12/08

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

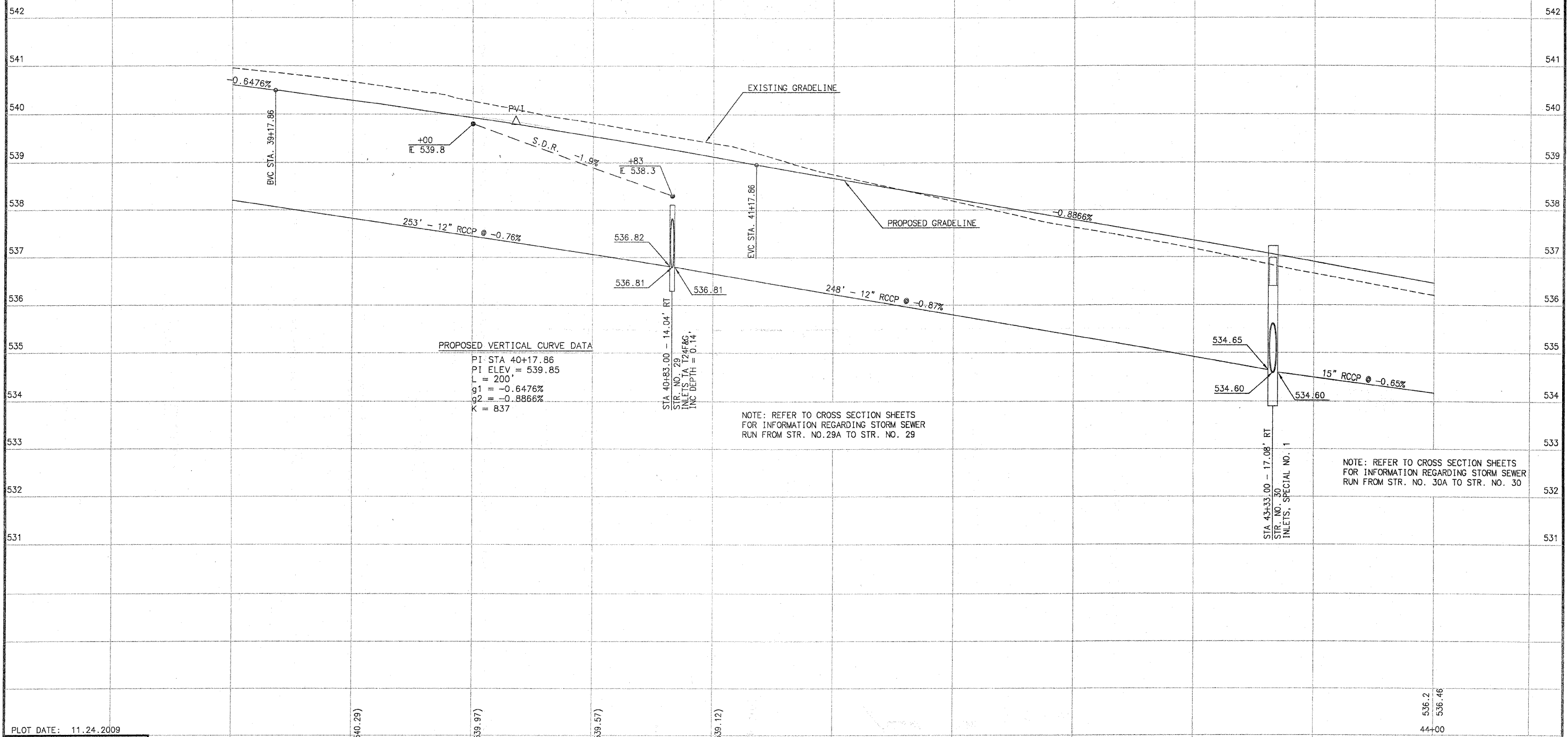
543.5
 543.81 (543.85)
 543.4
 543.53
 543.0
 543.20
 542.8
 542.88
 543.36
 542.7
 542.56
 542.5
 542.23
 542.2
 541.91
 541.9
 541.58
 541.7
 541.26
 541.4
 540.94

RIGHT SIDE

SCALE:
1" = 20' HORIZ.
1" = 1' VERT.

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	21 OF 63
FHWA REG. NO. 7 ILLINOIS		ARA-5011 (297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

PROFILE VIEW - RIGHT SIDE



PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	4/08
CHECKED	T HOLDENER	12/08
DRAWN	R GEORGEN	4/08
CHECKED	T HOLDENER	12/08

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

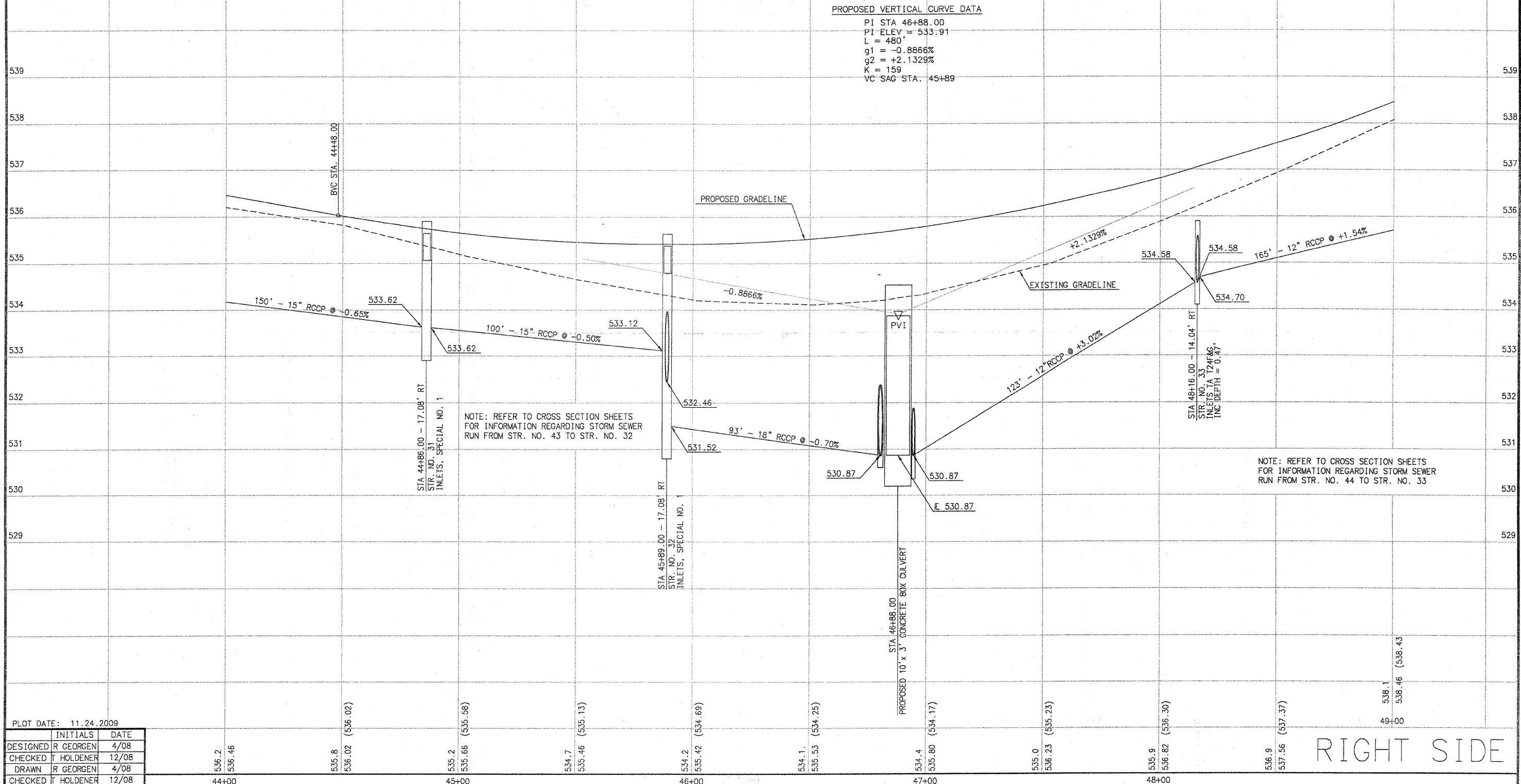
541.0	540.61	540.7	540.29 (540.29)	540.3	539.93 (539.97)	539.8	539.54 (539.57)	539.4	539.12 (539.12)	538.8	538.68	538.2	538.24	537.6	537.79	537.2	537.35	536.7	536.91
39+00				40+00				41+00				42+00				43+00			

RIGHT SIDE

SCALE:
 1" = 20' HORIZ.
 1" = 1' VERT.

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	22 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

PROFILE VIEW - RIGHT SIDE



PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	4/08
CHECKED	T HOLDENER	12/08
DRAWN	R GEORGEN	4/08
CHECKED	T HOLDENER	12/08

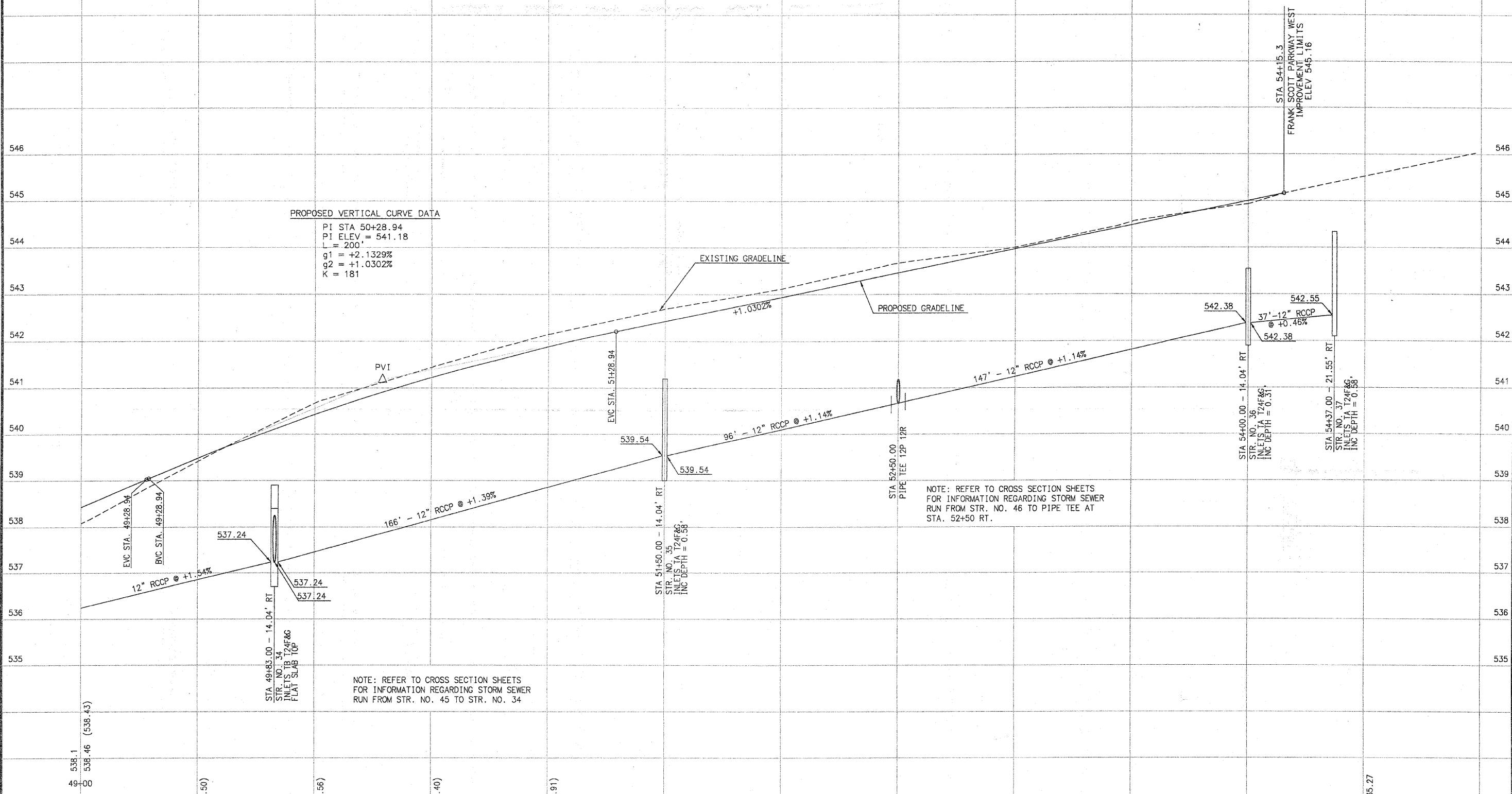
PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

RIGHT SIDE

SCALE:
1" = 20' HORIZ.
1" = 1' VERT.

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	23 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

PROFILE VIEW - RIGHT SIDE



PLOT DATE: 11.24.2009

DESIGNED	R GEORGEN	4/08
CHECKED	T HOLDENER	12/08
DRAWN	R GEORGEN	4/08
CHECKED	T HOLDENER	12/08

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

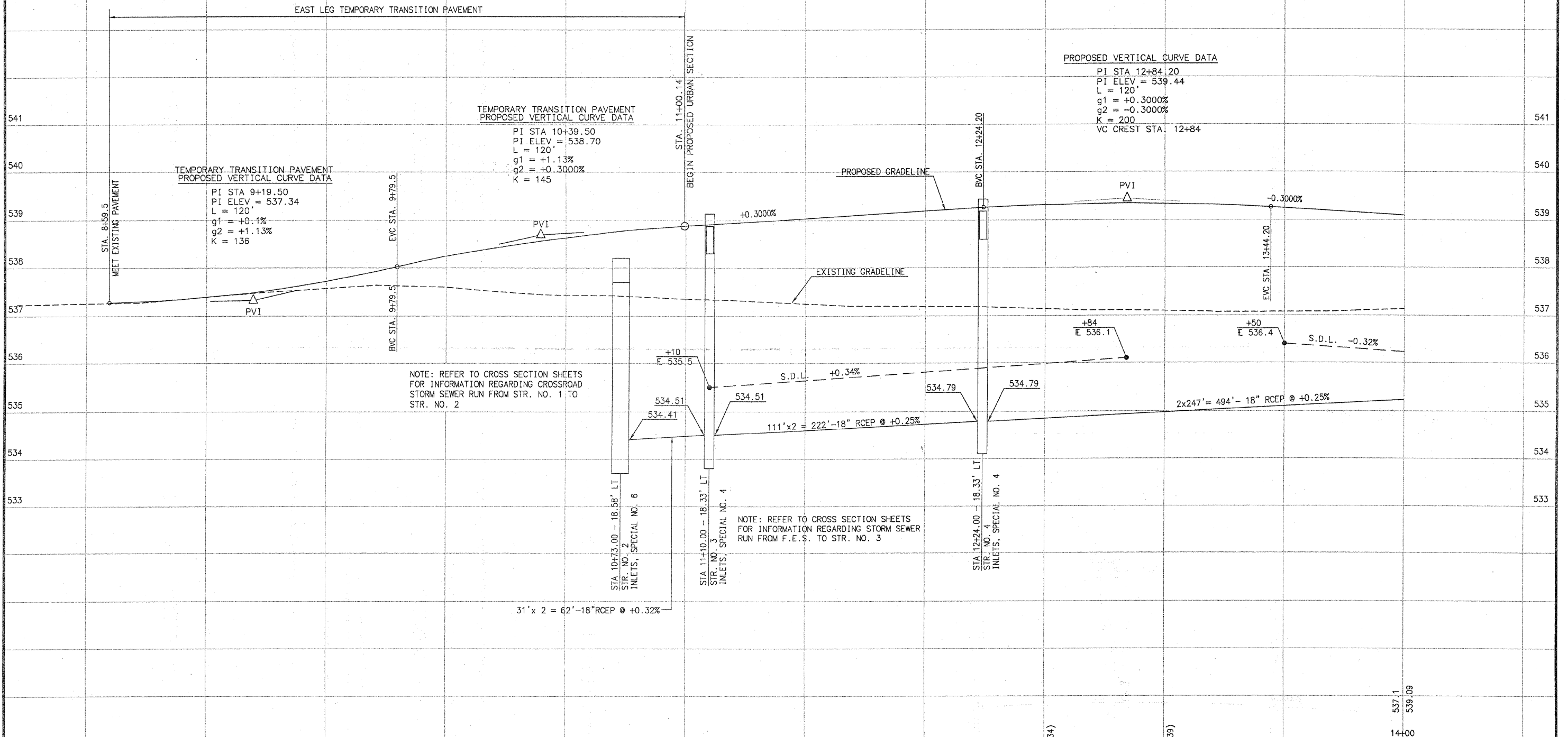
RIGHT SIDE

SCALE:
1" = 20' HORIZ.
1" = 1' VERT.

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	24 OF 63
FHWA REG. NO. 7 ILLINOIS		ARA-5011(297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

S.D.L. = SPECIAL DITCH LEFT

PROFILE VIEW - LEFT SIDE



PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	04/08
CHECKED	T HOLDENER	12/08
DRAWN	R GEORGEN	04/08
CHECKED	T HOLDENER	12/08

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

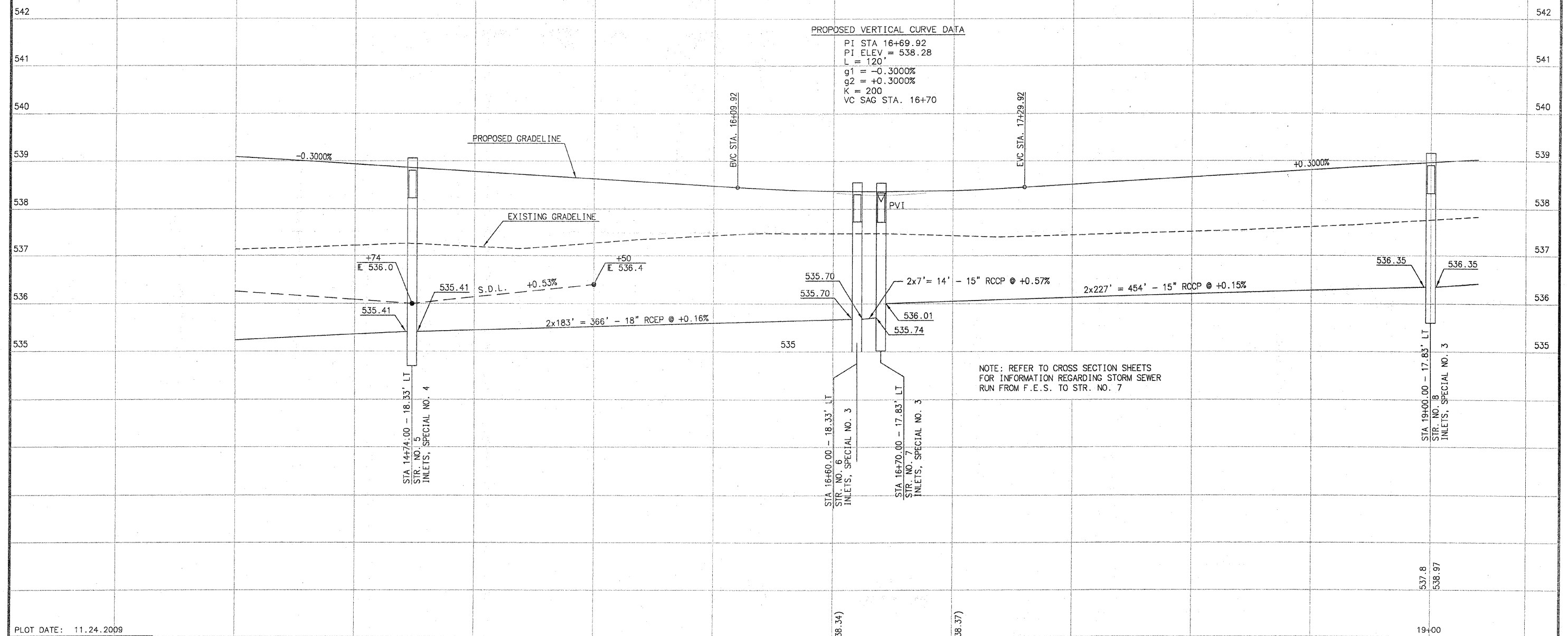
537.4	537.39	537.6	537.72	537.6	538.24	537.5	538.64	537.4	538.88	537.3	539.03	537.2	539.18	537.1	539.31 (539.34)	537.1	539.33 (539.39)	537.1	539.24
9+00		10+00		11+00		12+00		13+00											

LEFT SIDE

SCALE:
 1" = 20' HORIZ.
 1" = 1' VERT.

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	25 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

PROFILE VIEW - LEFT SIDE



PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	04/08
CHECKED	T HOLDENER	12/08
DRAWN	R GEORGEN	04/08
CHECKED	T HOLDENER	12/08

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

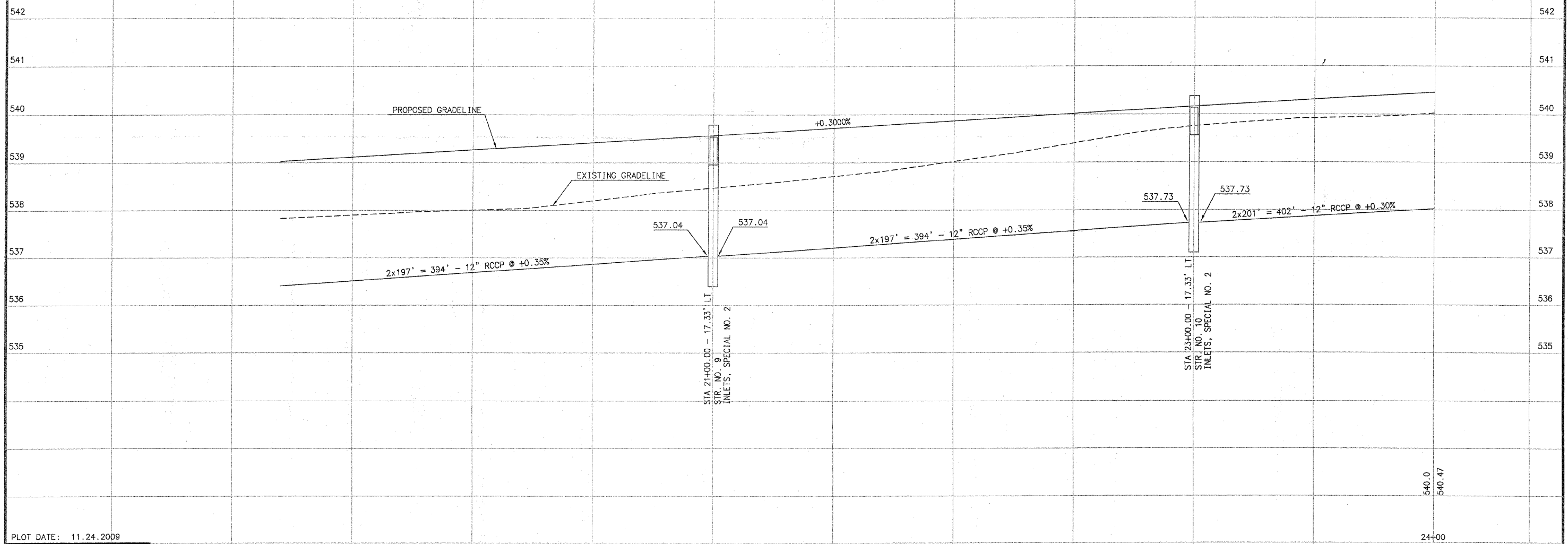
537.1 538.09	537.2 538.94	537.2 538.79	537.3 538.64	537.4 538.49	537.5 538.38 (538.34)	537.4 538.59 (538.37)	537.4 538.52	537.5 538.67	537.6 538.82
14+00		15+00		16+00		17+00		18+00	

LEFT SIDE

SCALE:
1" = 20' HORIZ.
1" = 1' VERT.

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-0092-02-PV	22	ST. CLAIR	26 OF 63
FHWA REG.NO.7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

PROFILE VIEW - LEFT SIDE



PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	04/08
CHECKED	T HOLDENER	12/08
DRAWN	R GEORGEN	04/08
CHECKED	T HOLDENER	12/08

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

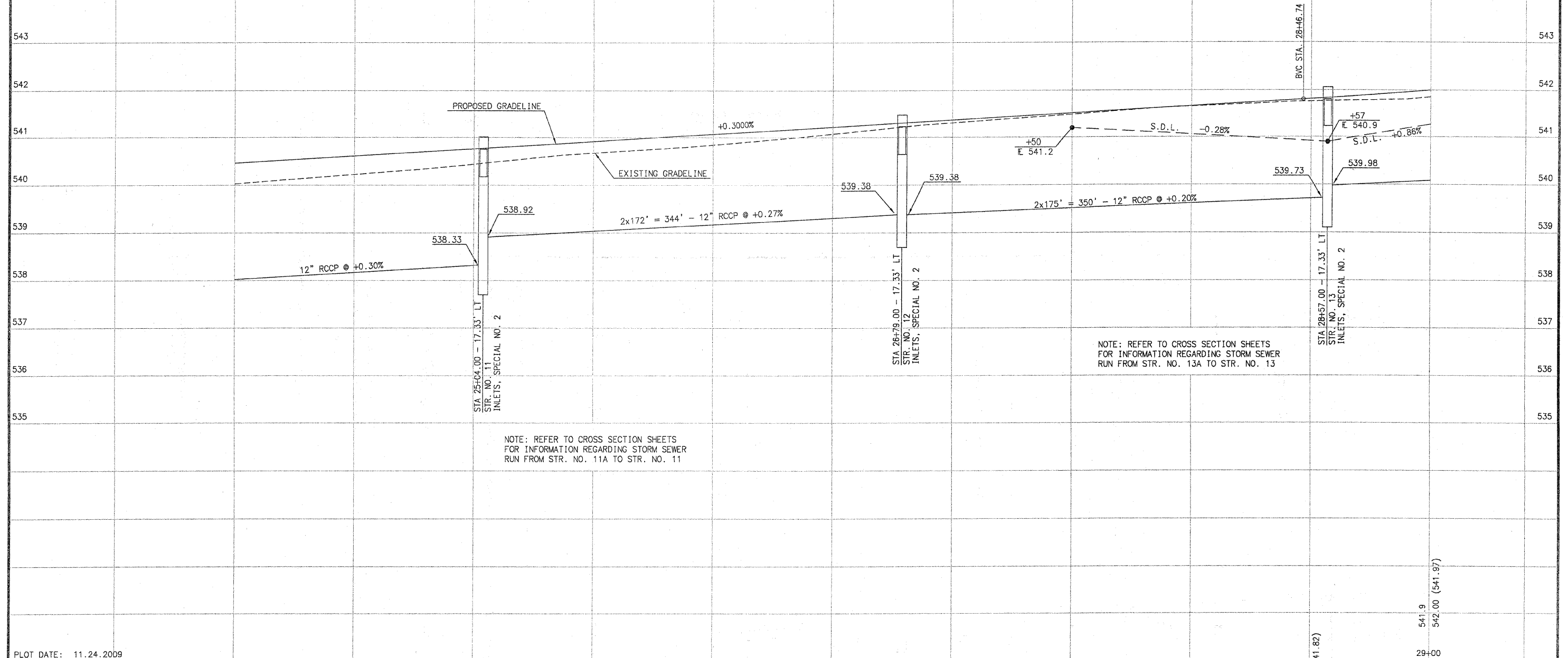
537.8 538.97	537.9 539.12	538.0 539.27	538.2 539.42	538.5 539.57	538.7 539.72	539.0 539.87	539.4 540.02	539.8 540.17	539.9 540.32
19+00		20+00		21+00		22+00		23+00	

LEFT SIDE

SCALE:
 1" = 20' HORIZ.
 1" = 1' VERT.

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	27 OF 63
FHWA REG.NO.7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

PROFILE VIEW - LEFT SIDE



NOTE: REFER TO CROSS SECTION SHEETS FOR INFORMATION REGARDING STORM SEWER RUN FROM STR. NO. 11A TO STR. NO. 11

NOTE: REFER TO CROSS SECTION SHEETS FOR INFORMATION REGARDING STORM SEWER RUN FROM STR. NO. 13A TO STR. NO. 13

PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	04/08
CHECKED	T HOLDENER	12/08
DRAWN	R GEORGEN	04/08
CHECKED	T HOLDENER	12/08

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

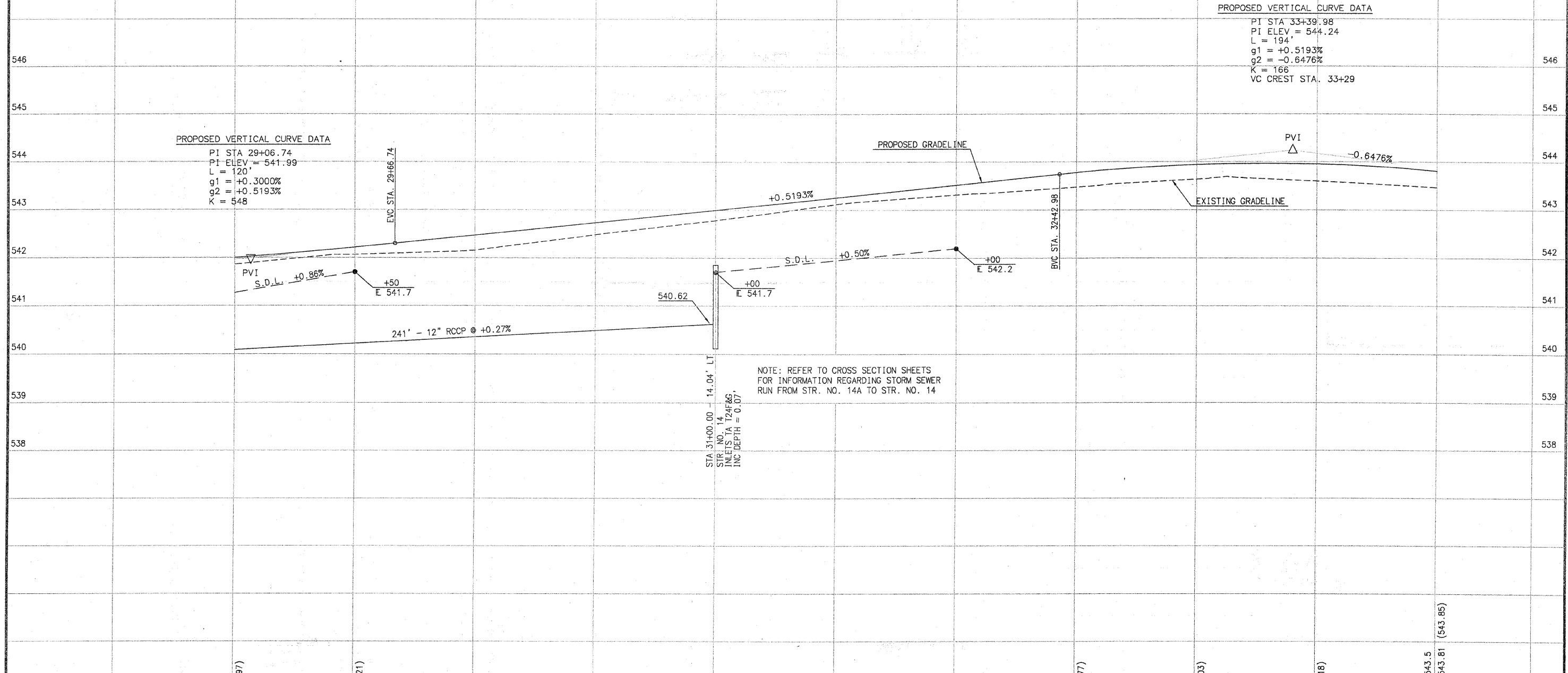
540.0	540.47	540.2	540.62	540.5	540.77	540.7	540.92	540.9	541.07	541.1	541.22	541.3	541.37	541.5	541.52	541.7	541.67	541.8	541.82 (541.82)
24+00				25+00				26+00				27+00				28+00			

LEFT SIDE

SCALE:
1" = 20' HORIZ.
1" = 1' VERT.

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	28 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

PROFILE VIEW - LEFT SIDE



PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	04/08
CHECKED	T HOLDENER	12/08
DRAWN	R GEORGEN	04/08
CHECKED	T HOLDENER	12/08

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

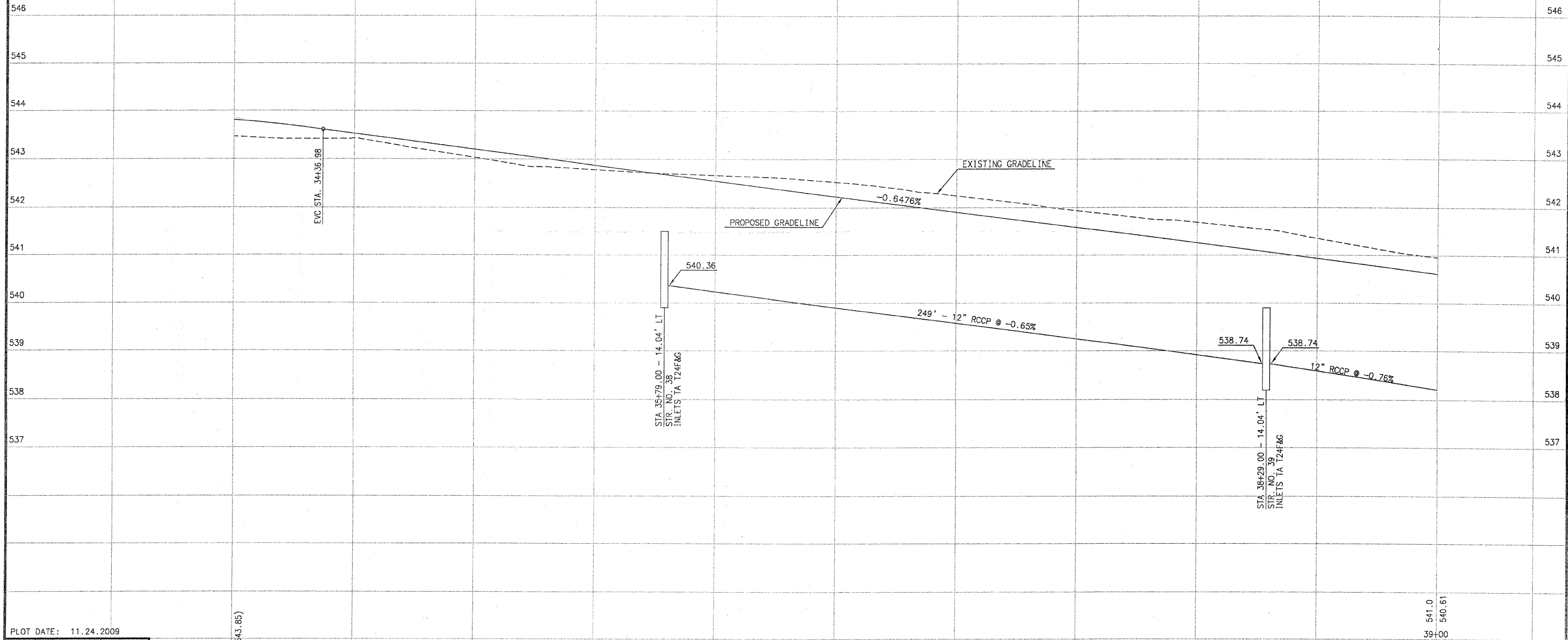
541.9 542.00 (541.97)	29+00	542.1 542.22 (542.21)	30+00	542.2 542.47	31+00	542.5 542.73	542.8 542.99	32+00	543.1 543.25	543.3 543.51	33+00	543.5 543.77 (543.77)	543.6 543.94 (544.03)	34+00	543.5 543.81 (543.85)
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LEFT SIDE

SCALE:
1" = 20' HORIZ.
1" = 1' VERT.

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	29 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

PROFILE VIEW - LEFT SIDE



PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	04/08
CHECKED	T HOLDENER	12/08
DRAWN	R GEORGEN	04/08
CHECKED	T HOLDENER	12/08

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

543.5
543.81 (543.85)
34+00

543.4
543.53
35+00

542.8
542.88
36+00

542.7
542.56
37+00

542.5
542.23
38+00

541.9
541.58
39+00

541.7
541.26
39+00

541.4
540.94

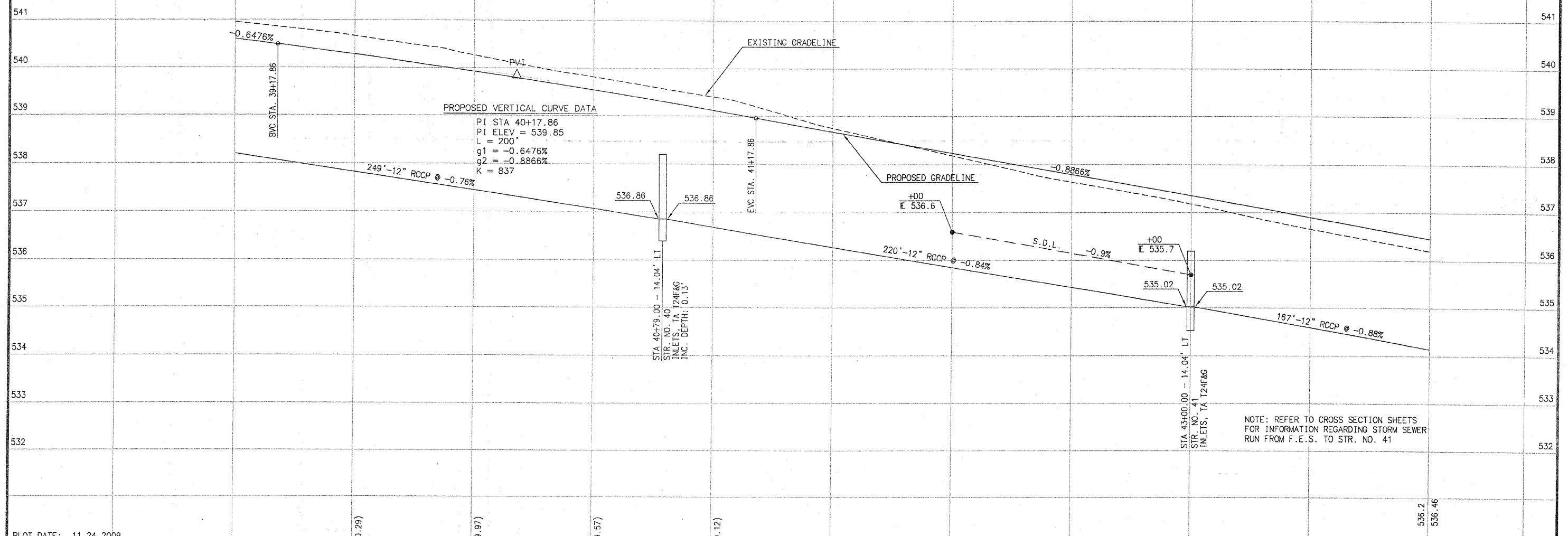
541.0
540.61
39+00

LEFT SIDE

SCALE:
1" = 20' HORIZ.
1" = 1' VERT.

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	30 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011 (297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

PROFILE VIEW - LEFT SIDE



NOTE: REFER TO CROSS SECTION SHEETS FOR INFORMATION REGARDING STORM SEWER RUN FROM F.E.S. TO STR. NO. 41

PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	04/08
CHECKED	T HOLDENER	12/08
DRAWN	R GEORGEN	04/08
CHECKED	T HOLDENER	12/08

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

541.0	540.61	540.7	540.29 (540.29)	540.3	539.93 (539.97)	539.8	539.54 (539.57)	539.4	539.12 (539.12)	538.8	538.68	538.2	538.24	537.6	537.79	537.2	537.35	536.7	536.91
39+00				40+00				41+00				42+00				43+00			

LEFT SIDE

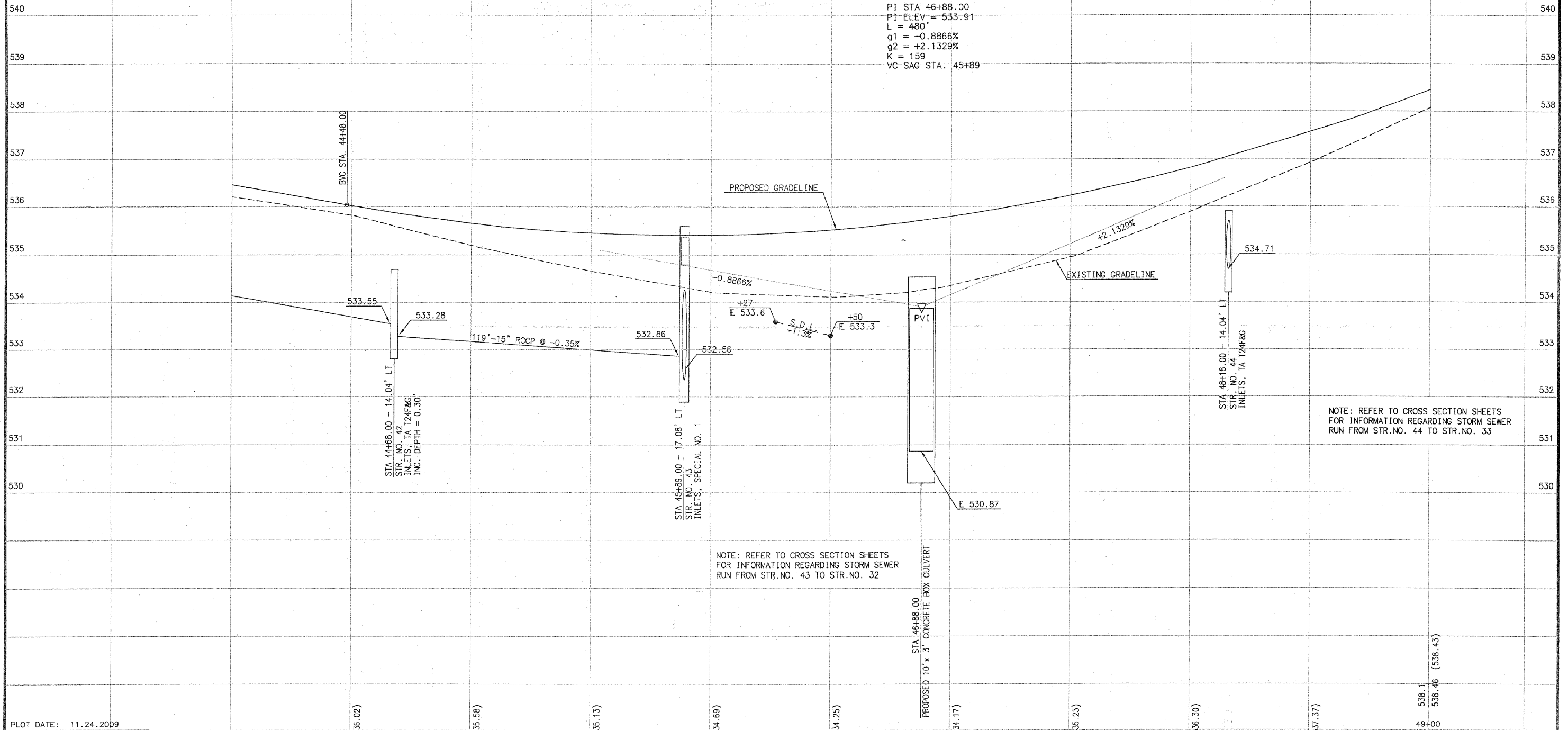
SCALE:
1" = 20' HORIZ.
1" = 1' VERT.

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	31 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011 (297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

PROFILE VIEW - LEFT SIDE

PROPOSED VERTICAL CURVE DATA

PI STA 46+88.00
PI ELEV = 533.91
L = 480'
g1 = -0.8866%
g2 = +2.1329%
K = 159
VC SAG STA: 45+89



NOTE: REFER TO CROSS SECTION SHEETS FOR INFORMATION REGARDING STORM SEWER RUN FROM STR. NO. 44 TO STR. NO. 33

NOTE: REFER TO CROSS SECTION SHEETS FOR INFORMATION REGARDING STORM SEWER RUN FROM STR. NO. 43 TO STR. NO. 32

PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	04/08
CHECKED	T HOLDENER	12/08
DRAWN	R GEORGEN	04/08
CHECKED	T HOLDENER	12/08

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

536.2
536.46

535.8
536.02 (536.02)

535.2
535.66 (535.58)

534.7
535.46 (535.13)

534.2
535.42 (534.69)

534.1
535.53 (534.25)

534.4
535.80 (534.17)

535.0
536.23 (535.23)

535.9
536.82 (536.30)

536.9
537.56 (537.37)

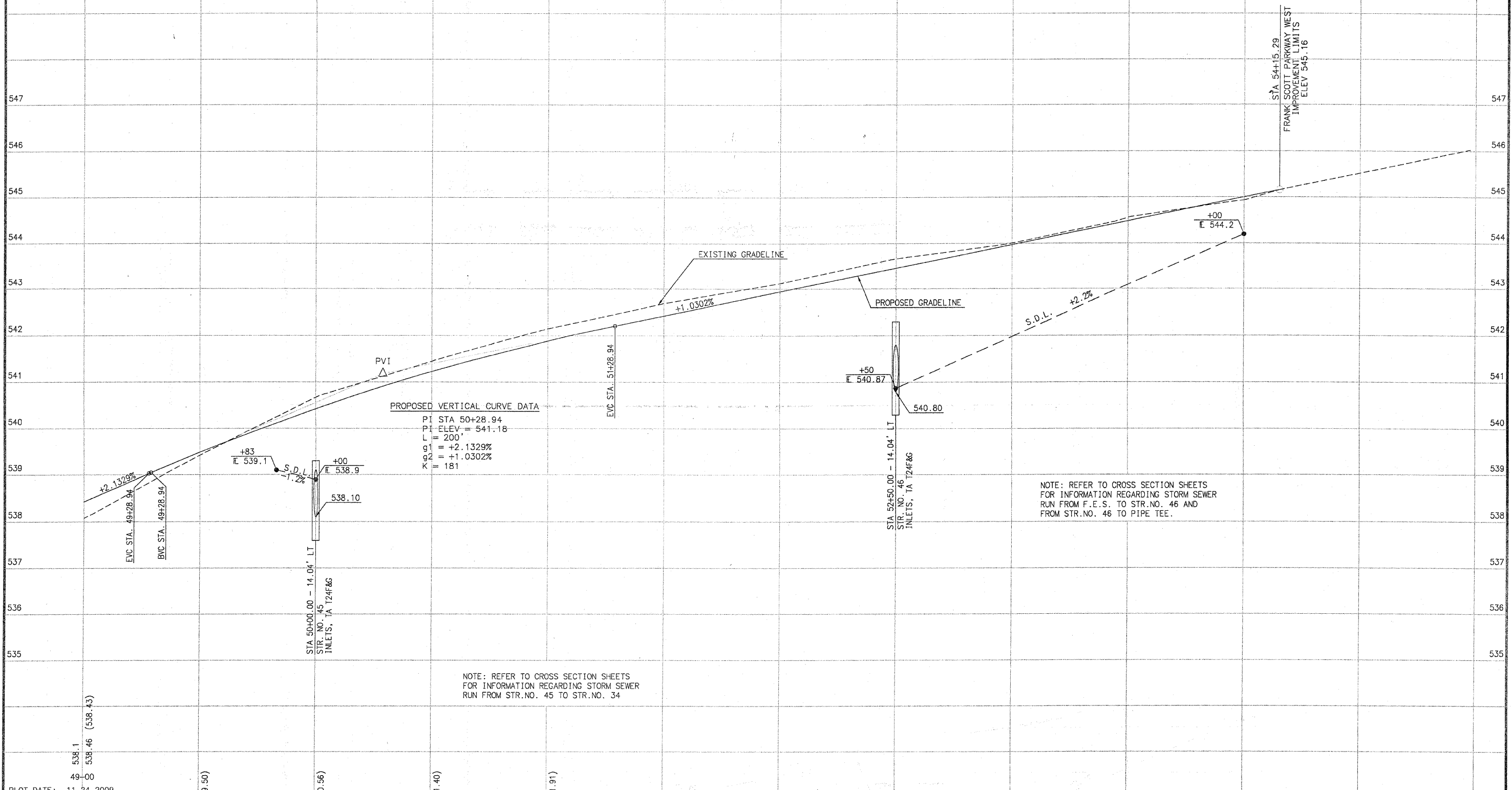
538.1
538.46 (538.43)
49+00

LEFT SIDE

SCALE:
1" = 20' HORIZ.
1" = 1' VERT.

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	32 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011 (297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

PROFILE VIEW - LEFT SIDE



PROPOSED VERTICAL CURVE DATA
 PVI STA 50+28.94
 PVI ELEV = 541.18
 L = 200'
 G1 = +2.1329%
 G2 = +1.0302%
 K = 181

NOTE: REFER TO CROSS SECTION SHEETS FOR INFORMATION REGARDING STORM SEWER RUN FROM F.E.S. TO STR. NO. 46 AND FROM STR. NO. 46 TO PIPE TEE.

NOTE: REFER TO CROSS SECTION SHEETS FOR INFORMATION REGARDING STORM SEWER RUN FROM STR. NO. 45 TO STR. NO. 34

LEFT SIDE

PLOT DATE: 11.24.2009

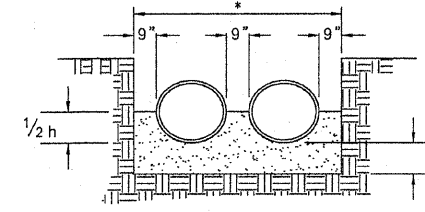
	INITIALS	DATE
DESIGNED	R GEORGEN	04/08
CHECKED	T HOLDENER	12/08
DRAWN	R GEORGEN	04/08
CHECKED	T HOLDENER	12/08

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

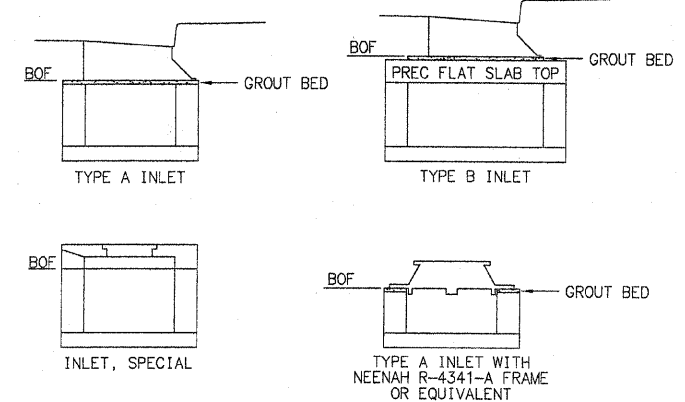
539.4	539.49 (539.50)	540.7	540.43 (540.56)	541.5	541.23 (541.40)	542.2	541.89 (541.91)	542.7	542.43	543.1	542.94	543.7	543.46	544.0	543.97	544.6	544.49	544.9	545.00
		50+00				51+00				52+00				53+00					54+00

SECTION NO.	HIGHWAY	COUNTY	SHEET OF SHEETS
06-0092-02-PV	22	ST. CLAIR	33 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

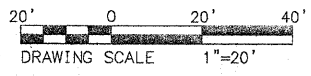
STORM SEWER PLAN VIEW BEGIN - STA. 12+50



TYPICAL TRENCH DETAIL
N.T.S.
* : AS PER ARTICLE 550.04 OF THE STD. SPECIFICATIONS.



TYPICAL DETAIL OF BOTTOM OF FRAME ELEVATION
N.T.S.

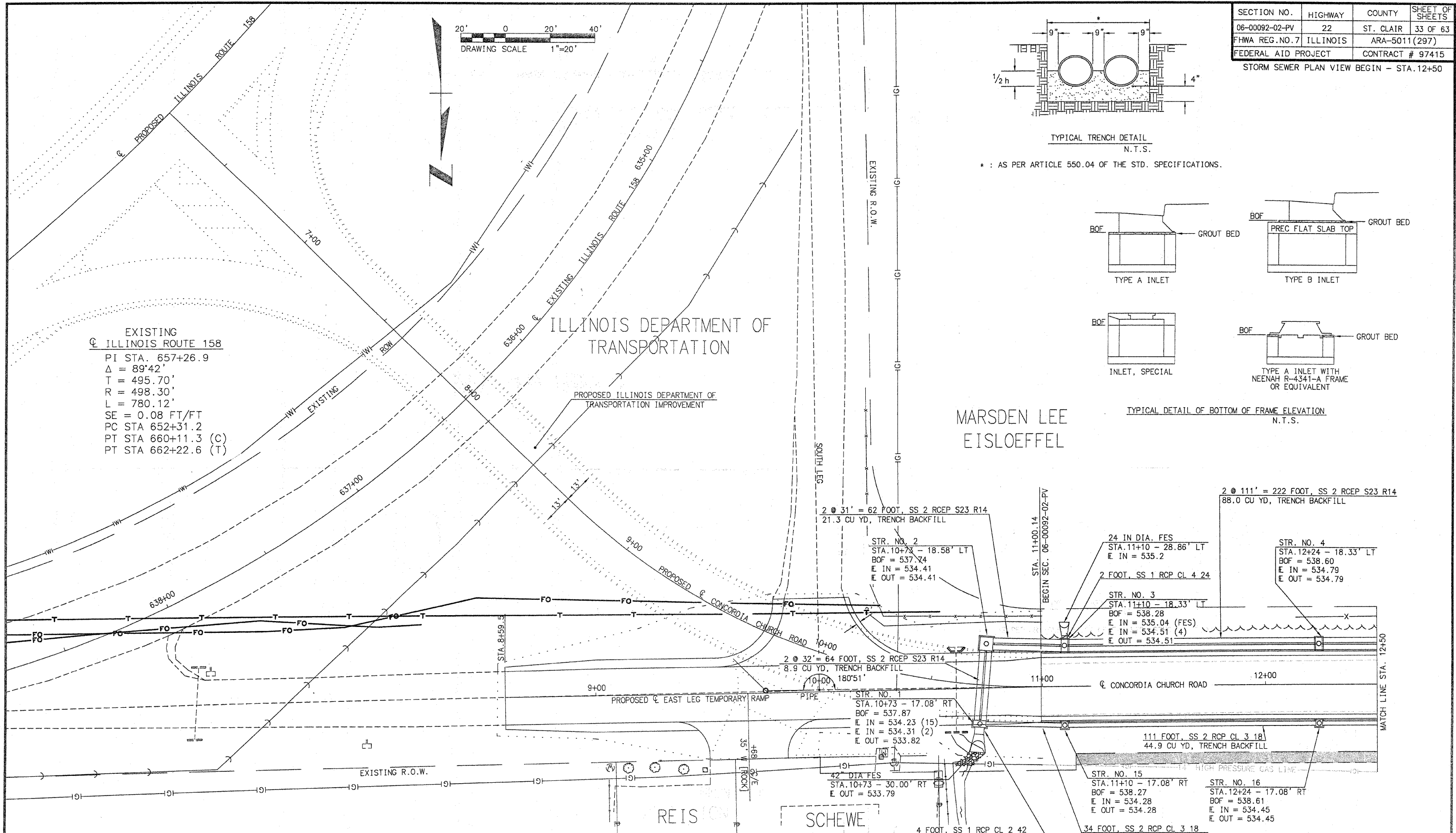


EXISTING
ILLINOIS ROUTE 158
PI STA. 657+26.9
Δ = 89°42'
T = 495.70'
R = 498.30'
L = 780.12'
SE = 0.08 FT/FT
PC STA 652+31.2
PT STA 660+11.3 (C)
PT STA 662+22.6 (T)

ILLINOIS DEPARTMENT OF
TRANSPORTATION

PROPOSED ILLINOIS DEPARTMENT OF
TRANSPORTATION IMPROVEMENT

MARSDEN LEE
EISLOEFFEL



PLOT DATE: 11.24.2009

DESIGNED	INITIALS	DATE
CHECKED	T HOLDENER	DEC 2008
DRAWN	R GEORGEN	JULY 2008
CHECKED	T HOLDENER	DEC 2008

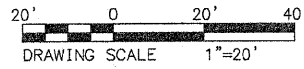
PREPARED BY ST. CLAIR COUNTY
HIGHWAY DEPARTMENT

SHEILA FRITZE

SHEILA FRITZE

NOTE: THE STATIONING SHOWN FOR THE STORM SEWER APPURTENANCES (i.e. MANHOLES, INLETS, PIPES, ETC.) REFERS TO THE PROPOSED CONCORDIA CHURCH C AND NOT THE EAST LEG TEMPORARY RAMP C.

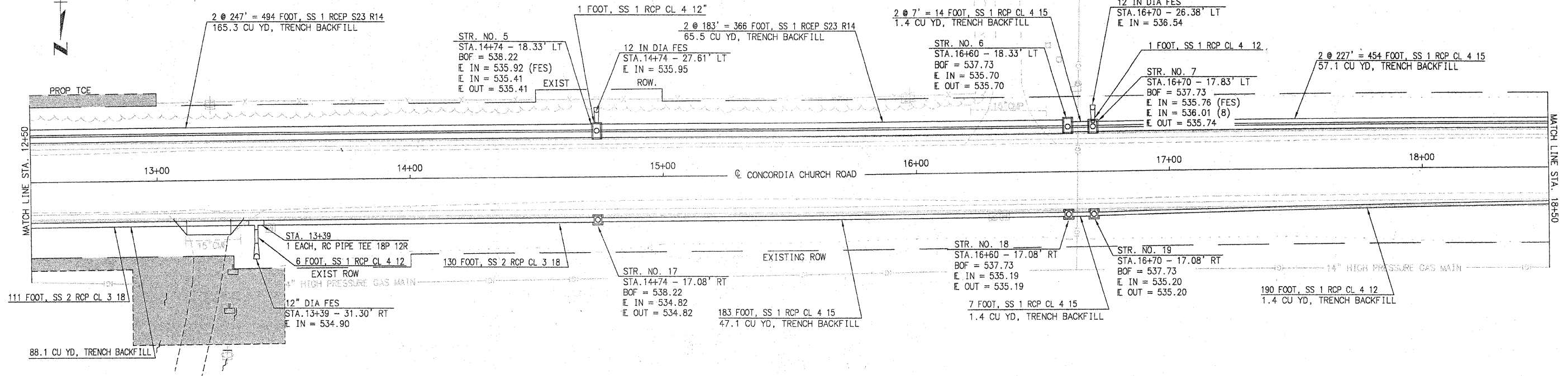
FILE NAME: 00092-02-PV SS PLN BEGIN-1250.dwg



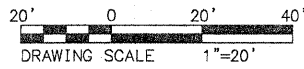
MARSDEN LEE EISLOEFFEL

SECTION NO.	HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	34 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011 (297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

STORM SEWER PLAN VIEW STA. 12+50 - STA. 24+50

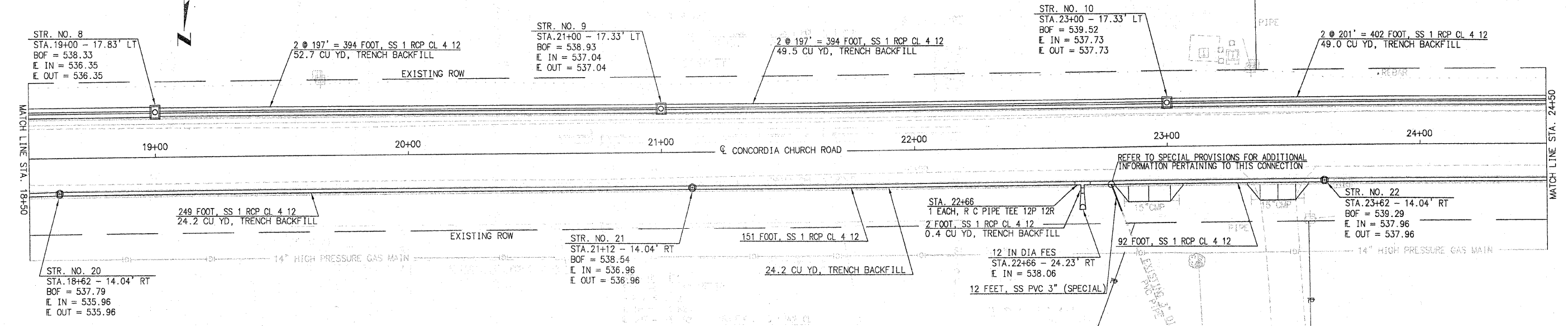


SHEILA FRITZE



MARSDEN LEE EISLOEFFEL

REHKEMPER FAMILY PARTNERSHIP



SHEILA FRITZE

POOLE

HEIDORN

PLOT DATE: 11.24.2009

DESIGNED	R GEORGEN	MAY 2008
CHECKED	T HOLDENER	DEC 2008
DRAWN	R GEORGEN	JULY 2008
CHECKED	T HOLDENER	DEC 2008

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

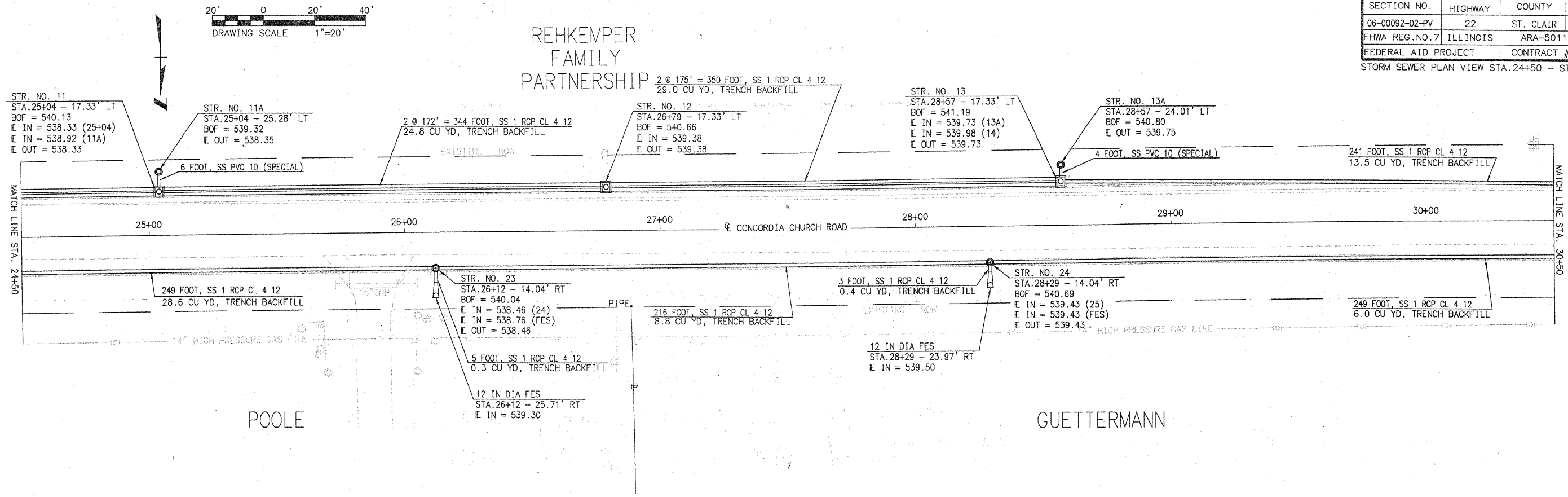
FILE NAME: 00092-02-PV SS PLN 1250-2450.dwg

BOF: BOTTOM OF FRAME ELEVATION (SEE DETAIL ON PREVIOUS SHEET)

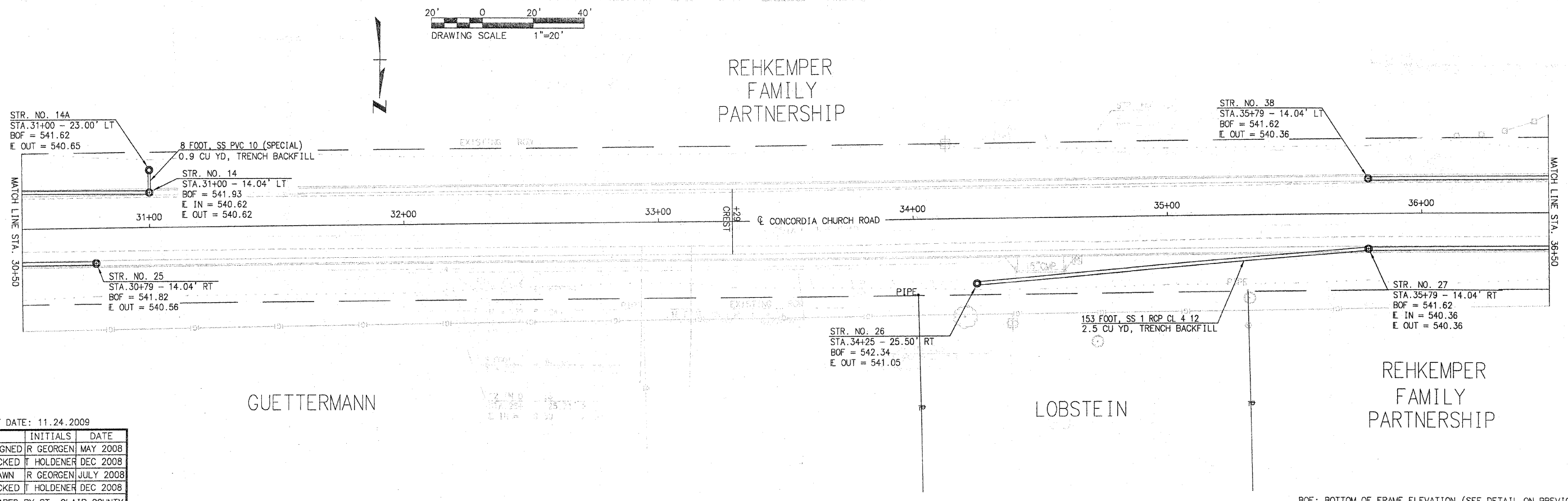
SECTION NO.	HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	35 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

STORM SEWER PLAN VIEW STA. 24+50 - STA. 36+50

REHKEMPER FAMILY PARTNERSHIP



REHKEMPER FAMILY PARTNERSHIP



PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	MAY 2008
CHECKED	T HOLDENER	DEC 2008
DRAWN	R GEORGEN	JULY 2008
CHECKED	T HOLDENER	DEC 2008

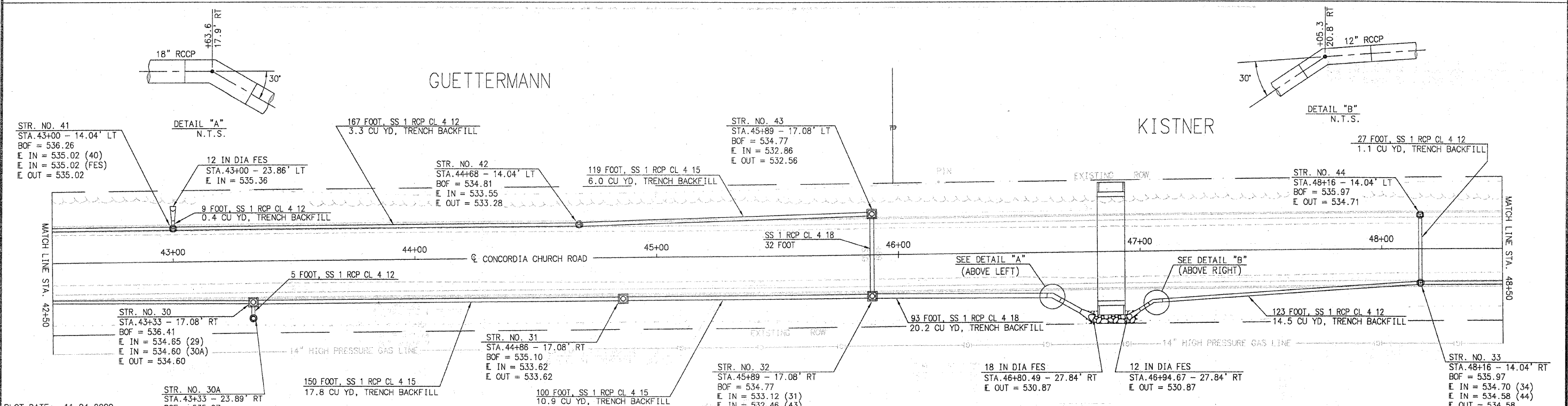
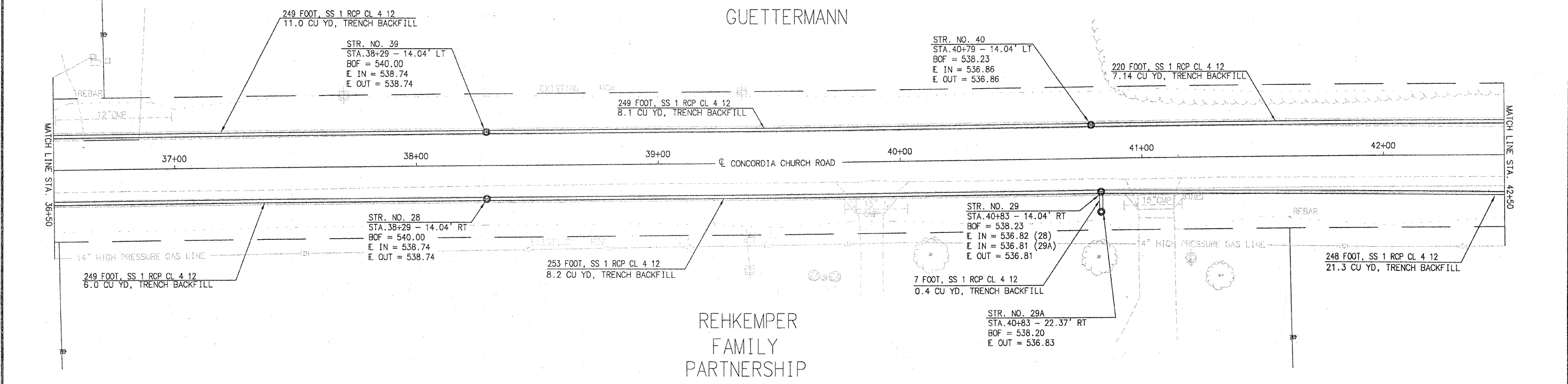
PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

FILE NAME: 00092-02-PV SS PLN 2450-3650.dwg

BOF: BOTTOM OF FRAME ELEVATION (SEE DETAIL ON PREVIOUS SHEET)

SECTION NO.	HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	36 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

STORM SEWER PLAN VIEW STA. 36+50 - STA. 48+50



PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	MAY 2008
CHECKED	T HOLDENER	DEC 2008
DRAWN	R GEORGEN	JULY 2008
CHECKED	T HOLDENER	DEC 2008

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

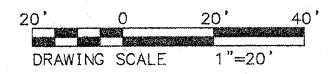
FILE NAME: 00092-02-PV SS PLN 3650-4850.dwg

REHKEMPER FAMILY PARTNERSHIP

BOF: BOTTOM OF FRAME ELEVATION (SEE DETAIL ON PREVIOUS SHEET)

SECTION NO.	HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	37 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011 (297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

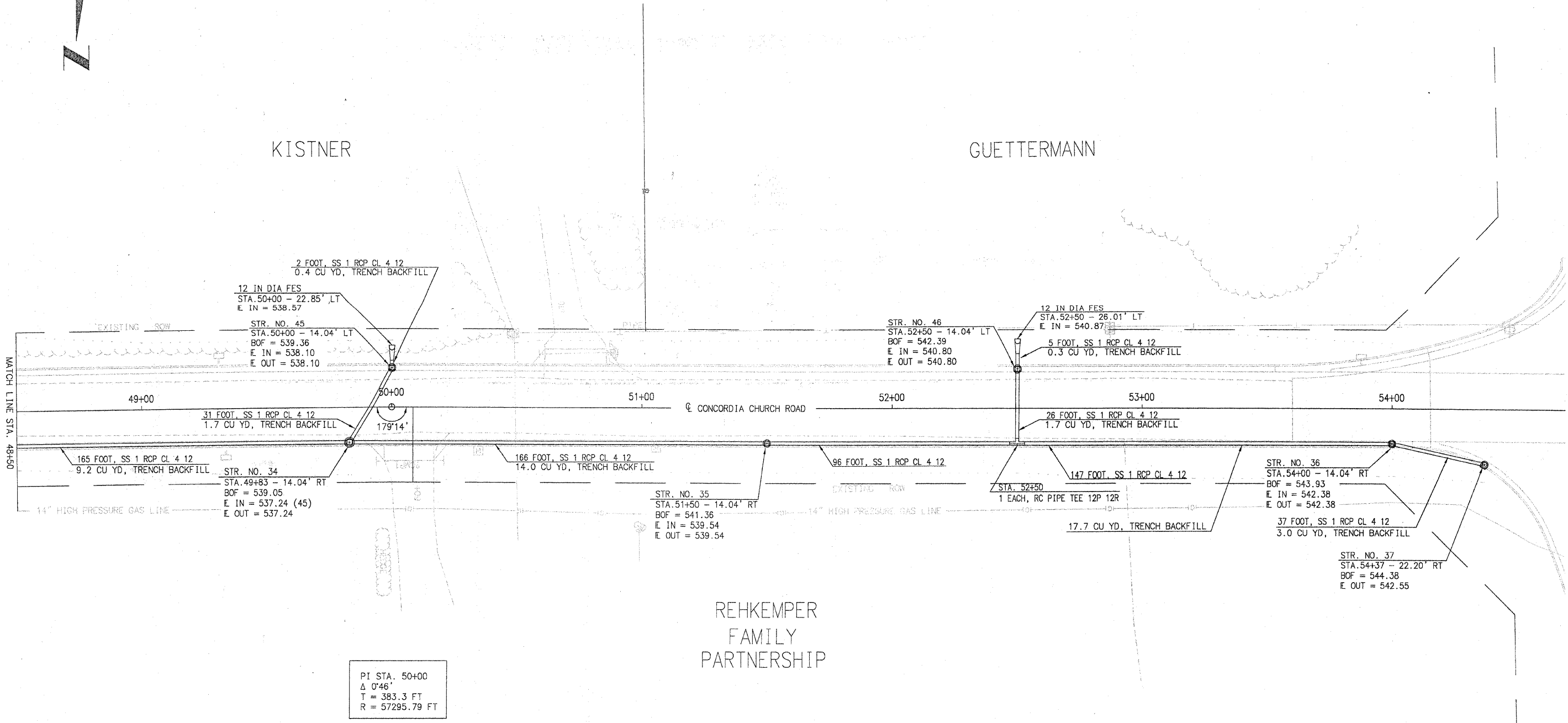
STORM SEWER PLAN VIEW STA. 48+50 - END



KISTNER

GUETTERMANN

REHKEMPER
FAMILY
PARTNERSHIP



PI STA. 50+00
Δ 0'46"
T = 383.3 FT
R = 57295.79 FT

PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	MAY 2008
CHECKED	T HOLDENER	DEC 2008
DRAWN	R GEORGEN	JULY 2008
CHECKED	T HOLDENER	DEC 2008

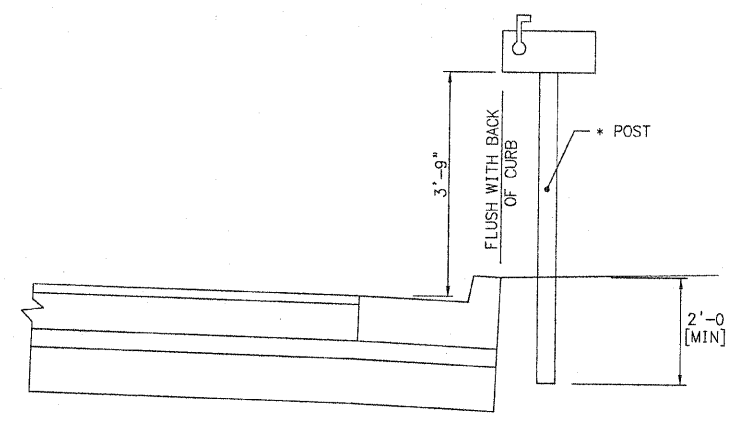
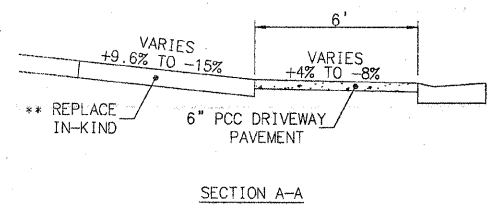
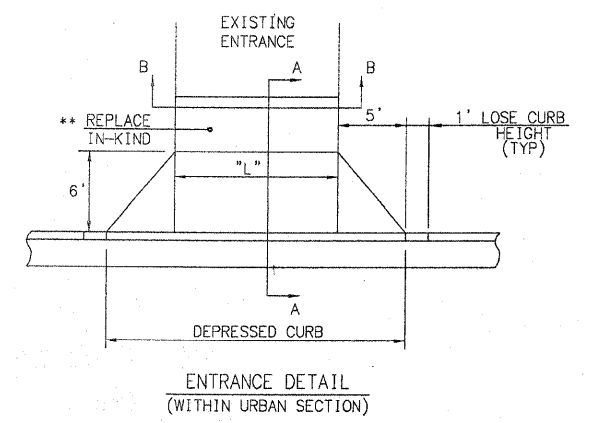
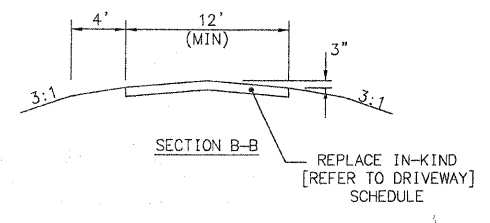
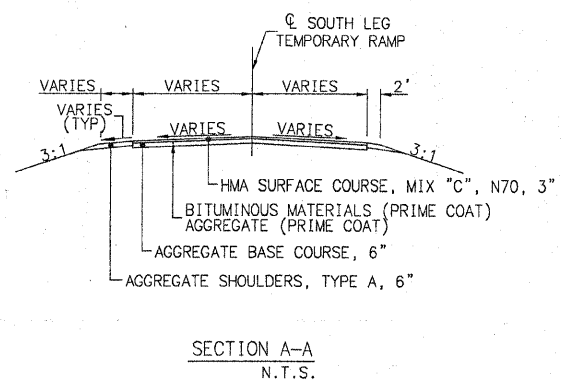
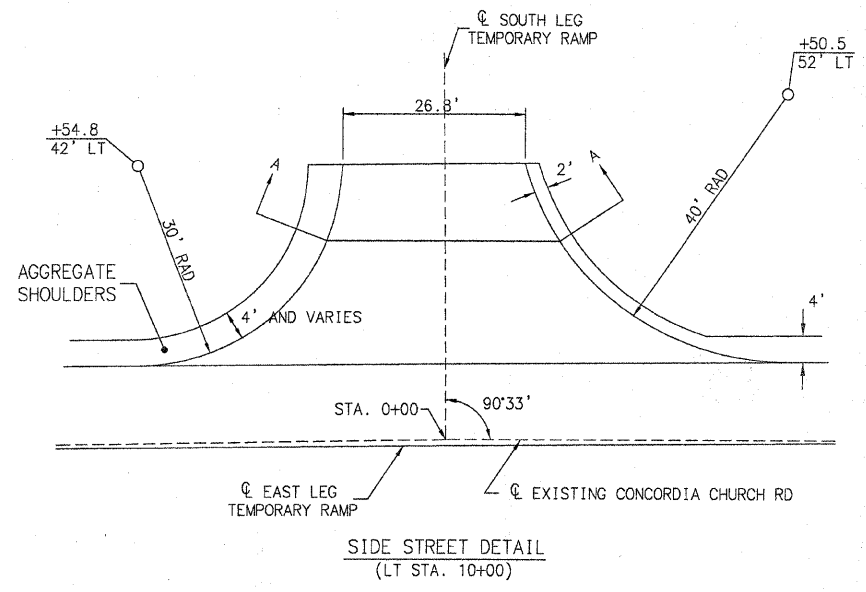
PREPARED BY ST. CLAIR COUNTY
HIGHWAY DEPARTMENT

FILE NAME: 00092-02-PV SS PLN 4850-5437.dwg

BOF: BOTTOM OF FRAME ELEVATION (SEE DETAIL ON PREVIOUS SHEET)

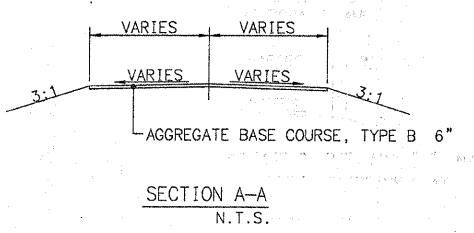
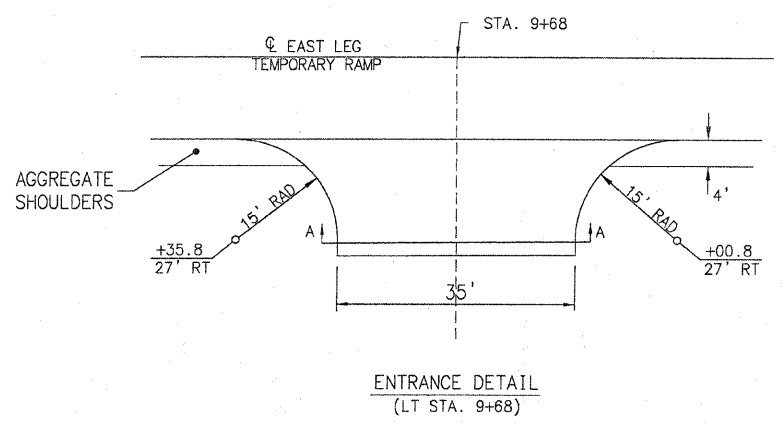
SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	38 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

ENTRANCE / SIDE STREET / MAILBOX DETAILS



* NOTE: THE EXISTING MAILBOX SHALL BE INSPECTED BY THE R.E. PRIOR TO REMOVAL. POSTS, THAT IN THE OPINION OF THE ENGINEER, ARE JUDGED TO BE "ACCEPTABLE" THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR AT HIS COST IN ACCORDANCE WITH ART. 107.20 OF THE STANDARD SPECIFICATIONS.

POSTS THAT ARE JUDGED TO BE "UNACCEPTABLE" BASED ON THE CONDITION OF THE POST OR ON THE METHOD OF CONSTRUCTION SHALL BE REPLACED BY THE PROPERTY OWNER AT HIS/HER OWN COST.



** IF THE EXISTING SURFACE = BITUMINOUS SURFACE
THEN THE PROPOSED = 4" (COMPACTED) AGG. BASE COURSE, TYPE A (PE)
6" (COMPACTED) AGG. BASE COURSE, TYPE A (CE)
PLUS
BITUMINOUS MATERIALS PRIME COAT
AGGREGATE PRIME COAT
2" INCIDENTAL HOT MIX ASPHALT SURFACING

IF THE EXISTING SURFACE = CONCRETE
THEN THE PROPOSED = 6" PCC DRIVEWAY PAVEMENT (PE)

IF THE EXISTING SURFACE = ROCK
THEN THE PROPOSED = 4" (COMPACTED) AGG. BASE COURSE, TYPE B (PE)
6" (COMPACTED) AGG. BASE COURSE, TYPE B (CE)

PLOT DATE: 12.07.2009

DESIGNED	R GEORGEN	MAY 2008
CHECKED	T HOLDENER	DEC 2008
DRAWN	R GEORGEN	JULY 2008
CHECKED	T HOLDENER	DEC 2008

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

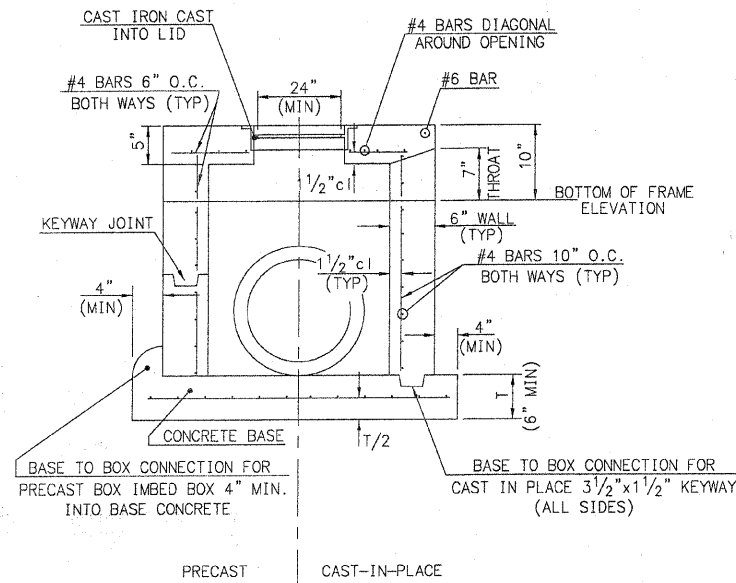
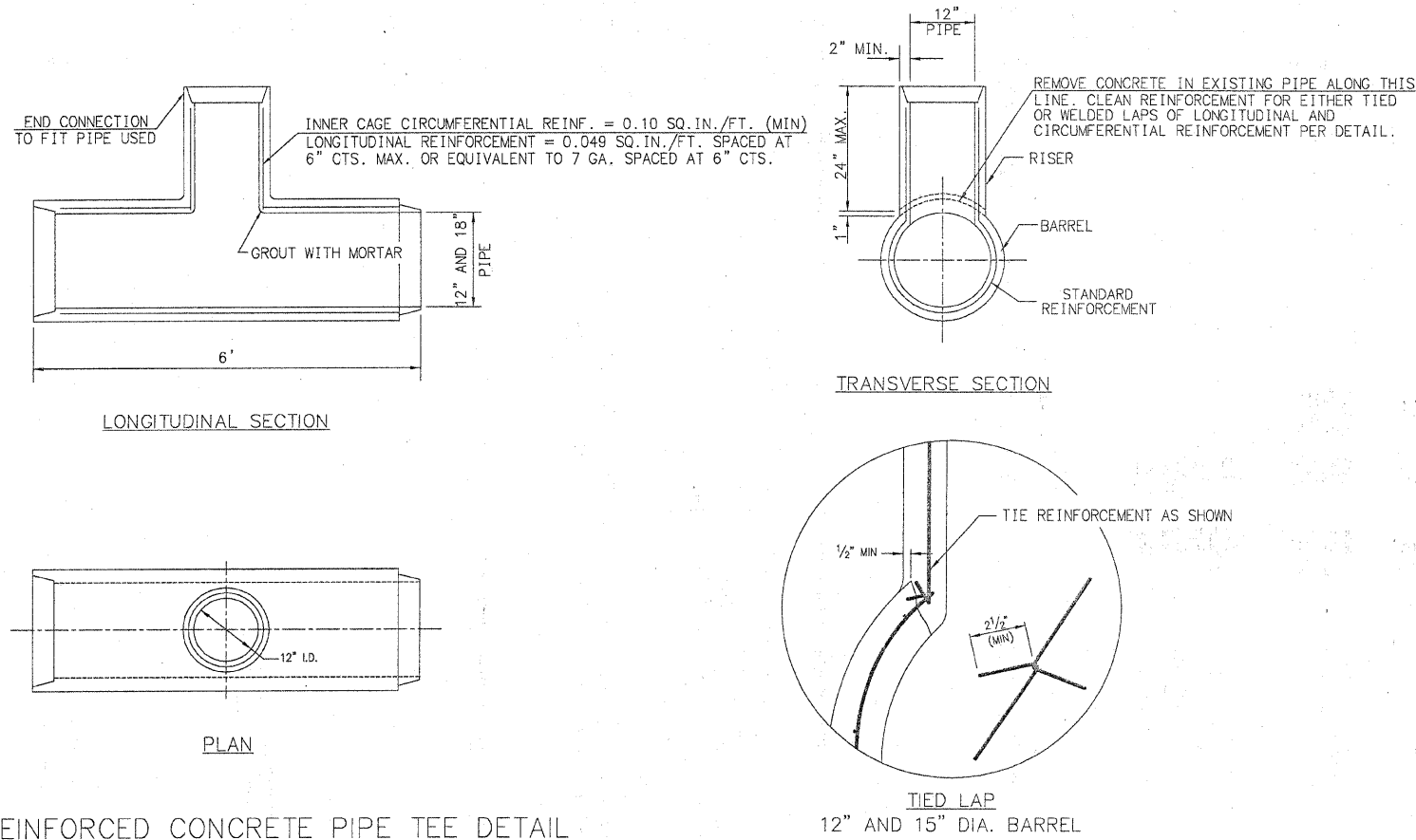
FILE NAME: 00092-02-pv ent ss details.dwg

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-0092-02-PV	22	ST. CLAIR	39 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011 (297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

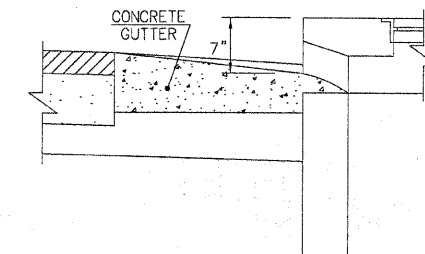
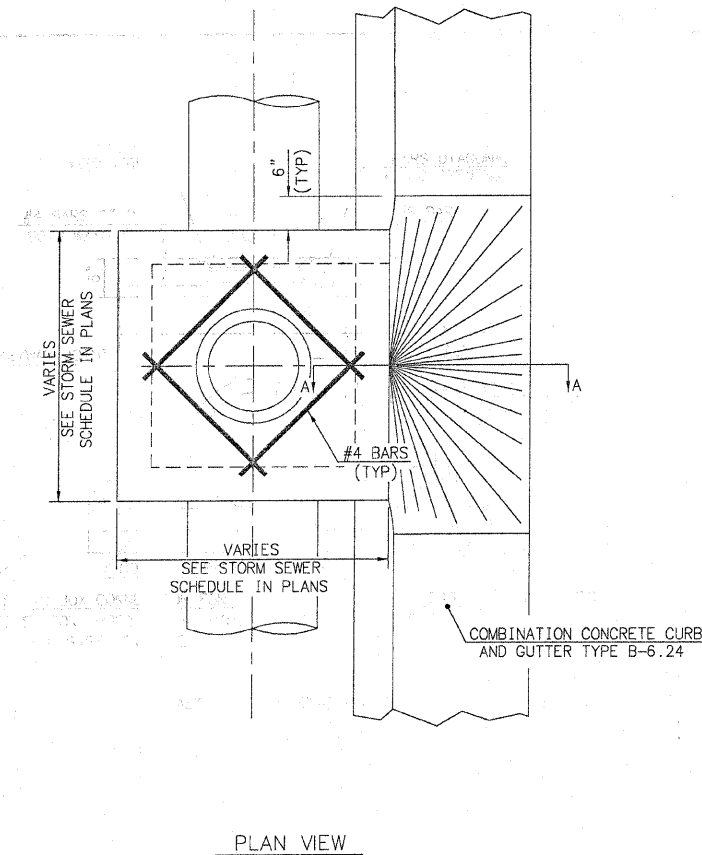
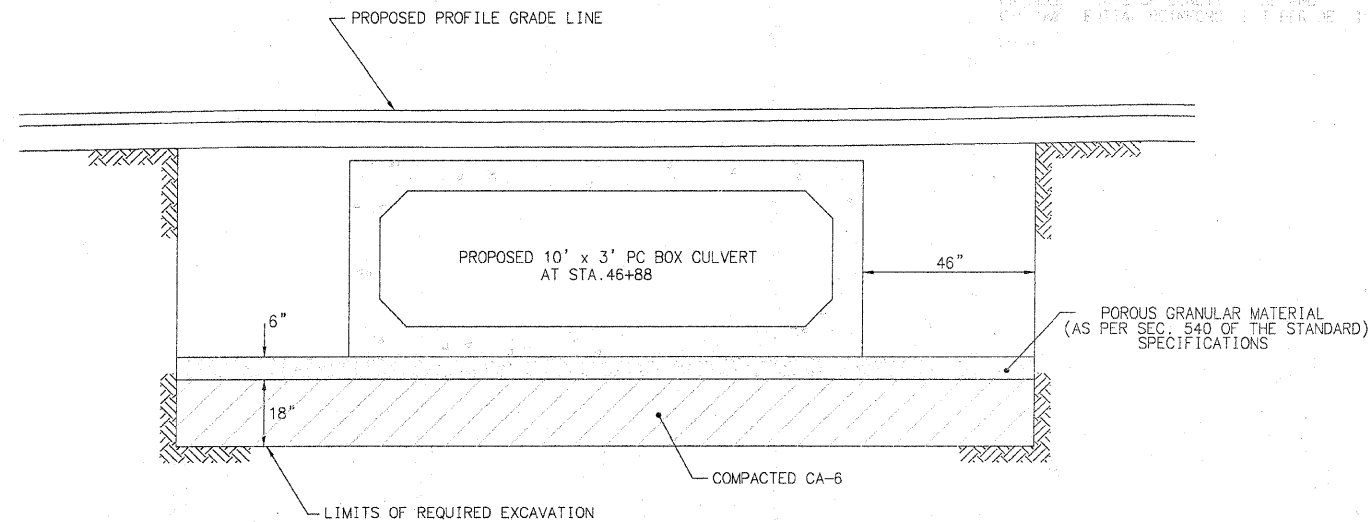
PIPE TEE / CULVERT OVER-EXCAVATION / INLETS, SPECIAL DETAILS

NOTE: THE CAST IRON GRATES SHALL MEET THE FOLLOWING SPECIFICATIONS:

MATERIAL: GRAY CAST IRON MEETING ASTM A-48, CLASS 35B
 TRAFFIC LOADS: HEAVY
 FINISH: NO PAINT
 FURNISH WITH MACHINED HORIZONTAL BEARING SURFACE.



REINFORCED CONCRETE PIPE TEE DETAIL



SECTION A-A

PLAN VIEW

OVEREXCAVATION DETAIL FOR PROPOSED CULVERT AT STA. 46+88

INLETS, SPECIAL DETAIL N.T.S.

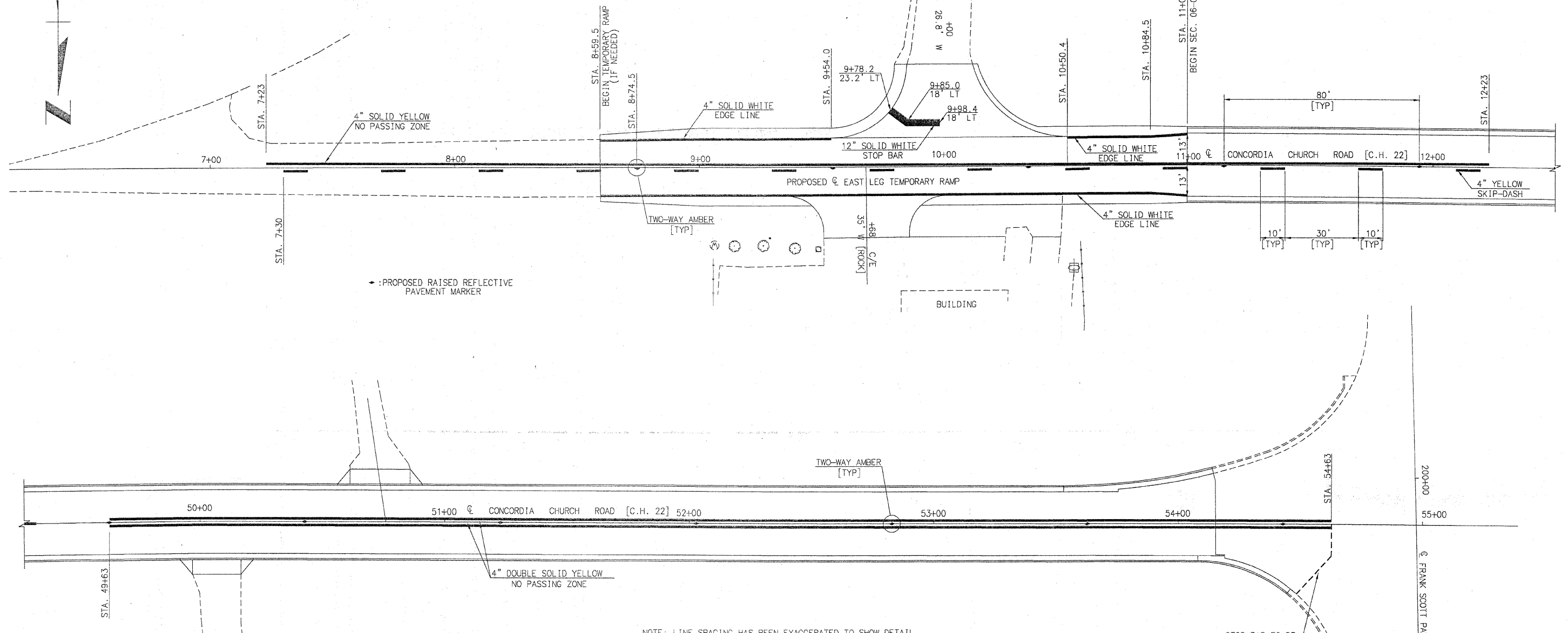
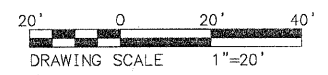
PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	MAY 2008
CHECKED	T HOLDENER	DEC 2008
DRAWN	R GEORGEN	JULY 2008
CHECKED	T HOLDENER	DEC 2008
PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT		

FILE NAME: 00092-02-PV Detail Pipe Tee.dwg

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	40 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011 (297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

PAVEMENT MARKING DETAIL



NOTE: LINE SPACING HAS BEEN EXAGGERATED TO SHOW DETAIL.

STOP BAR TO BE PLACED BY OTHERS

PAINT PAVEMENT MARKING SCHEDULE

LOCATION	DESCRIPTION	WIDTH (INCHES)	COLOR	LENGTH (FEET)
STA. 8+59.5 - STA. 9+54	EDGE LINE	4	WHITE	94.5
STA. 10+50.4 - STA. 11+00.1	EDGE LINE	4	WHITE	49.7
STA. 8+59.5 - STA. 11+00.1	EDGE LINE	4	WHITE	240.6
STA. 9+78.2 - STA. 9+98.4	STOP BAR	12	WHITE	22.0
STA. 7+30 - STA. 49+63	CENTERLINE (SKIP/DASH)	4	YELLOW	1058.3
STA. 7+23 - STA. 12+23	NO PASSING (EASTBOUND)	4	YELLOW	500.0
STA. 49+63 - STA. 54+63	NO PASSING (WESTBOUND)	4	YELLOW	500.0
STA. 49+63 - STA. 54+63	NO PASSING (EASTBOUND)	4	YELLOW	500.0

BILL OF MATERIALS

SHORT-TERM PAVEMENT MARKING	928 FOOT
WORK ZONE PAVEMENT MARKING REMOVAL	1312 SQ FT
TEMPORARY PAVEMENT MARKING - LINE 4"	2943 FOOT
TEMPORARY PAVEMENT MARKING - LINE 12"	22 FOOT
PAINT PAVEMENT MARKING - LINE 4"	2943 FOOT
PAINT PAVEMENT MARKING - LINE 12"	22 FOOT
RAISED REFLECTIVE PAVEMENT MARKERS	58 EACH

NOTE: SHORT-TERM PAVEMENT MARKING QUANTITIES BASED ON TWO APPLICATIONS.

RAISED REFLECTIVE PAVEMENT MARKERS

LOCATION	DESCRIPTION	QUANTITY
STA. 8+59.5 - STA. 54+63	TWO-WAY AMBER	58

PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	SEPT 2008
CHECKED	T HOLDENER	DEC 2008
DRAWN	R GEORGEN	SEPT 2008
CHECKED	T HOLDENER	DEC 2008

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

FILE NAME: 00092-02-PV PVT STRIPING.dwg

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	41 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

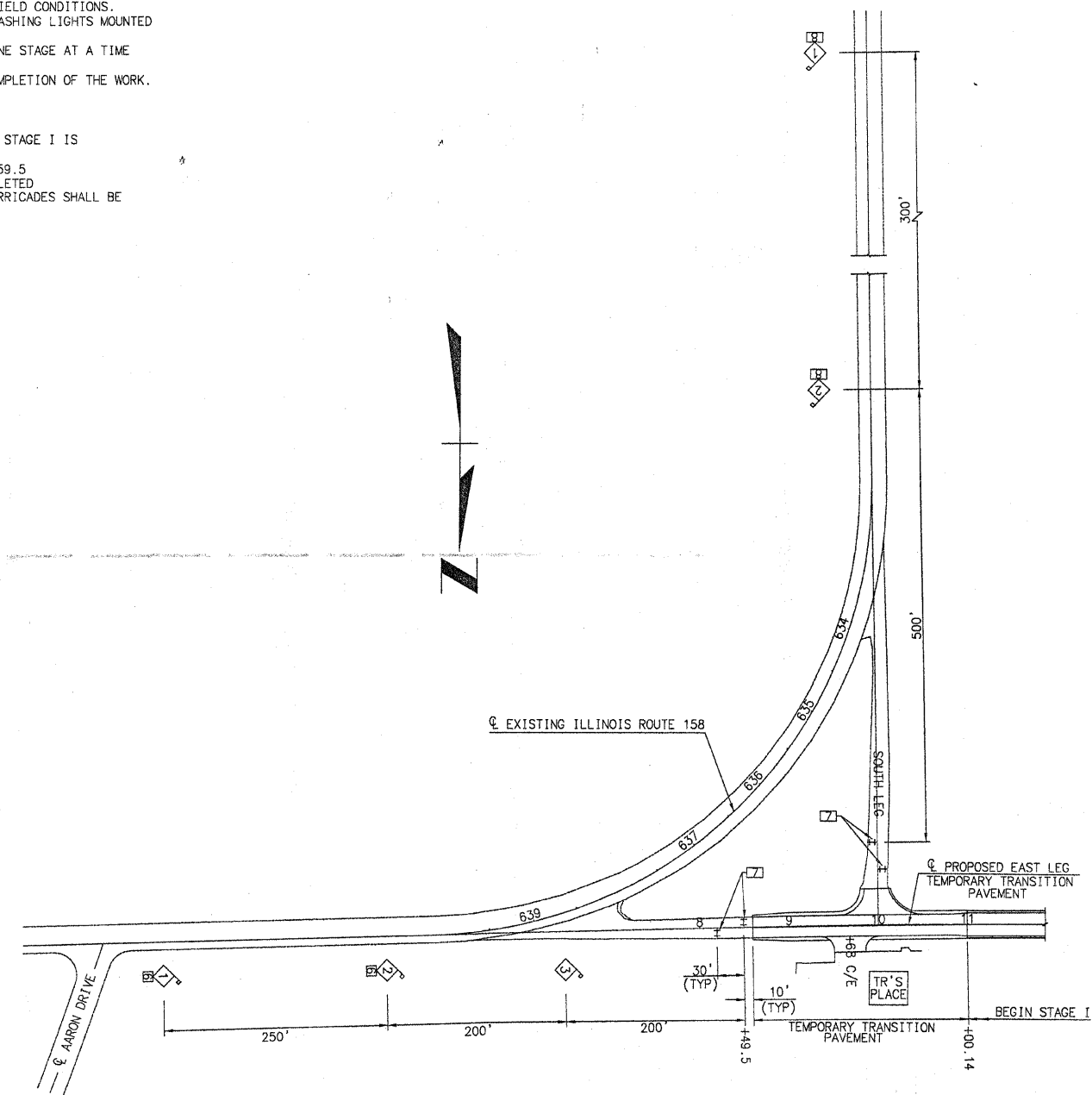
TRAFFIC CONTROL PLAN

GENERAL NOTES

1. THE CONTRACTOR MUST MAINTAIN ACCESS TO ALL ENTRANCES AT ALL TIMES.
2. ALL WARNING SIGNS SHALL BE A MINIMUM OF 48 INCHES BY 48 INCHES AND HAVE A BLACK LEGEND ON AN ORANGE REFLECTORIZED BACKGROUND.
3. 12V FLASHING WARNING LIGHTS SHALL BE USED IN ADVANCE OF THE WORK DURING HOURS OF DARKNESS AND BE INSTALLED ABOVE THE FIRST TWO SIGNS.
4. THE NUMBER OF TYPE III BARRICADES AT EACH LOCATION SHALL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION.
5. DISTANCES BETWEEN SIGNS MAY BE ADJUSTED BY THE ENGINEER TO FIT ACTUAL FIELD CONDITIONS.
6. ALL TYPE III BARRICADES UTILIZED FOR ROAD CLOSURES SHALL HAVE TWO 6V FLASHING LIGHTS MOUNTED ON TOP OF THE BARRICADES.
7. THE CONTRACTOR WILL NOT BE ALLOWED TO CONDUCT OPERATIONS IN MORE THAN ONE STAGE AT A TIME WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
8. REFER TO THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION REGARDING COMPLETION OF THE WORK IN A SPECIFIC STAGE.
9. STAGE I CONSTRUCTION LIMITS: STA. 10+99.5 TO STA. 34+31.
10. STAGE II CONSTRUCTION LIMITS: STA. 34+31 TO STA. 54+79.5.
11. THE TEMPORARY TRANSITION PAVEMENT, AS SHOWN, SHALL BE CONSTRUCTED AFTER STAGE I IS COMPLETED AND PRIOR TO COMMENCING CONSTRUCTION IN STAGE II.
12. THE STAGGERED BARRICADES SHOWN ON THE EAST LEG MAY BE PLACED AT STA. 10+59.5 WHILE STAGE I IS UNDER CONSTRUCTION. ONCE STAGE I CONSTRUCTION IS COMPLETED AND PRIOR TO CONSTRUCTING THE TEMPORARY TRANSITION PAVEMENT THEN THE BARRICADES SHALL BE RELOCATED TO THE LOCATIONS AS SHOWN.

LEGEND

- ① : ROAD CONSTRUCTION AHEAD
- ② : ROAD CLOSED AHEAD
- ③ : BARRICADES AHEAD
- ➡ : RIGHT TURN ARROW
- ⬅ : LEFT TURN ARROW
- ➡ : STRAIGHT ARROW
- ⊘ : ROAD CLOSED TO THROUGH TRAFFIC
- Ⓜ : "CONCORDIA CHURCH ROAD"
- ± : TYPE III BARRICADE WITH FLASHING AMBER LIGHTS MOUNTED ON TOP RAIL



PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	RGEORGEN	10/08
CHECKED	THOLDENER	12/08
DRAWN	RGEORGEN	10/08
CHECKED	THOLDENER	12/08

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

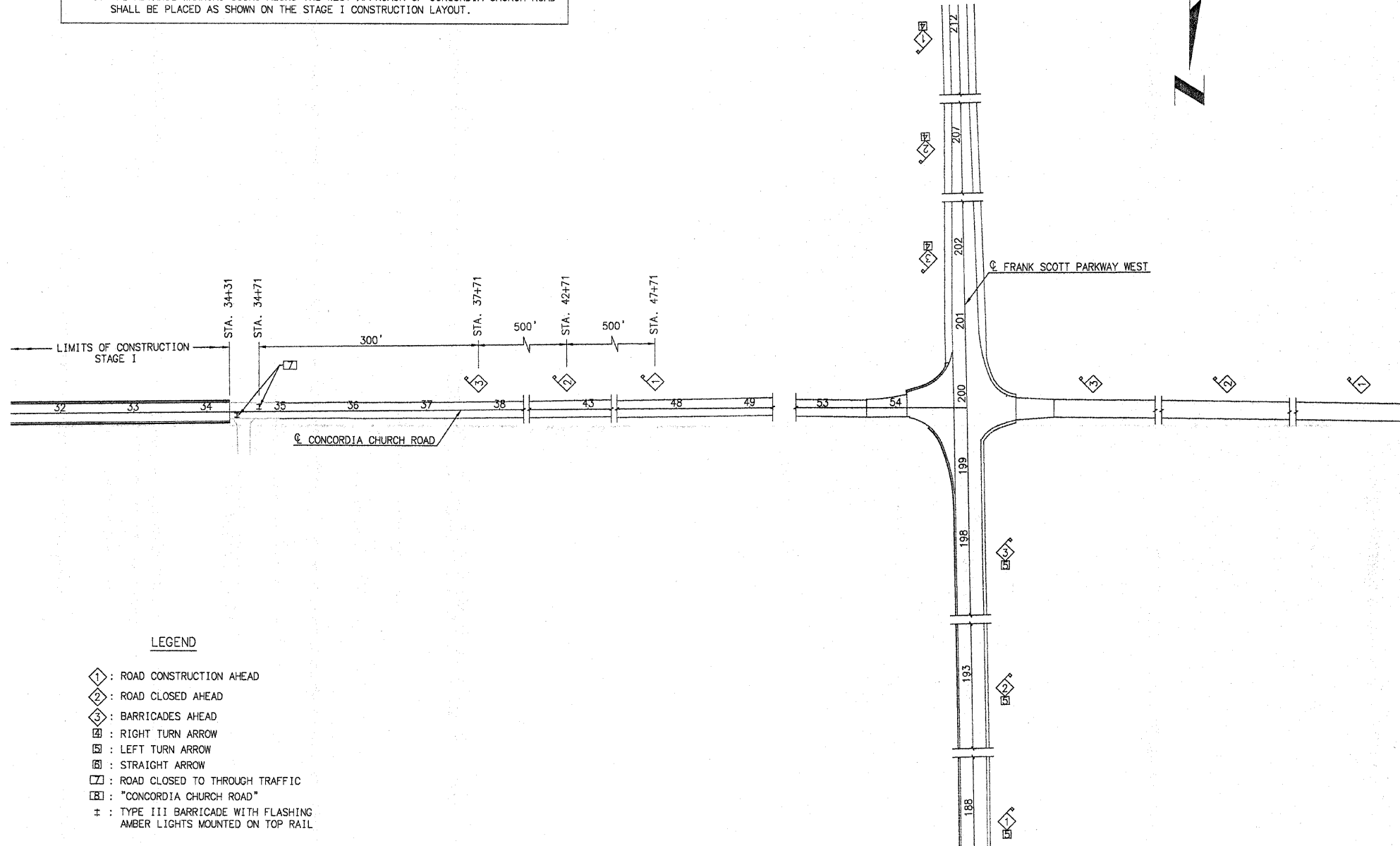
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SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-0092-02-PV	22	ST. CLAIR	42 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011 (297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

TRAFFIC CONTROL PLAN

NOTES:

1. THE SIGN PLACEMENT SHOWN HERE SHALL BE APPLIED DURING THE CONSTRUCTION OF STAGE I.
2. THE ADVANCE WARNING SIGNS AS SHOWN ALONG FRANK SCOTT PARKWAY AND THE WEST APPROACH OF CONCORDIA CHURCH ROAD SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THIS PROJECT.
3. THE ADVANCE WARNING SIGNS ALONG THE WEST APPROACH OF CONCORDIA CHURCH ROAD SHALL BE PLACED AS SHOWN ON THE STAGE I CONSTRUCTION LAYOUT.



LEGEND

- ◇ : ROAD CONSTRUCTION AHEAD
- ◇ : ROAD CLOSED AHEAD
- ◇ : BARRICADES AHEAD
- : RIGHT TURN ARROW
- : LEFT TURN ARROW
- : STRAIGHT ARROW
- ▭ : ROAD CLOSED TO THROUGH TRAFFIC
- ▭ : "CONCORDIA CHURCH ROAD"
- ± : TYPE III BARRICADE WITH FLASHING AMBER LIGHTS MOUNTED ON TOP RAIL

PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	RGEORGEN	10/08
CHECKED	THOLDENER	12/08
DRAWN	RGEORGEN	10/08
CHECKED	THOLDENER	12/08

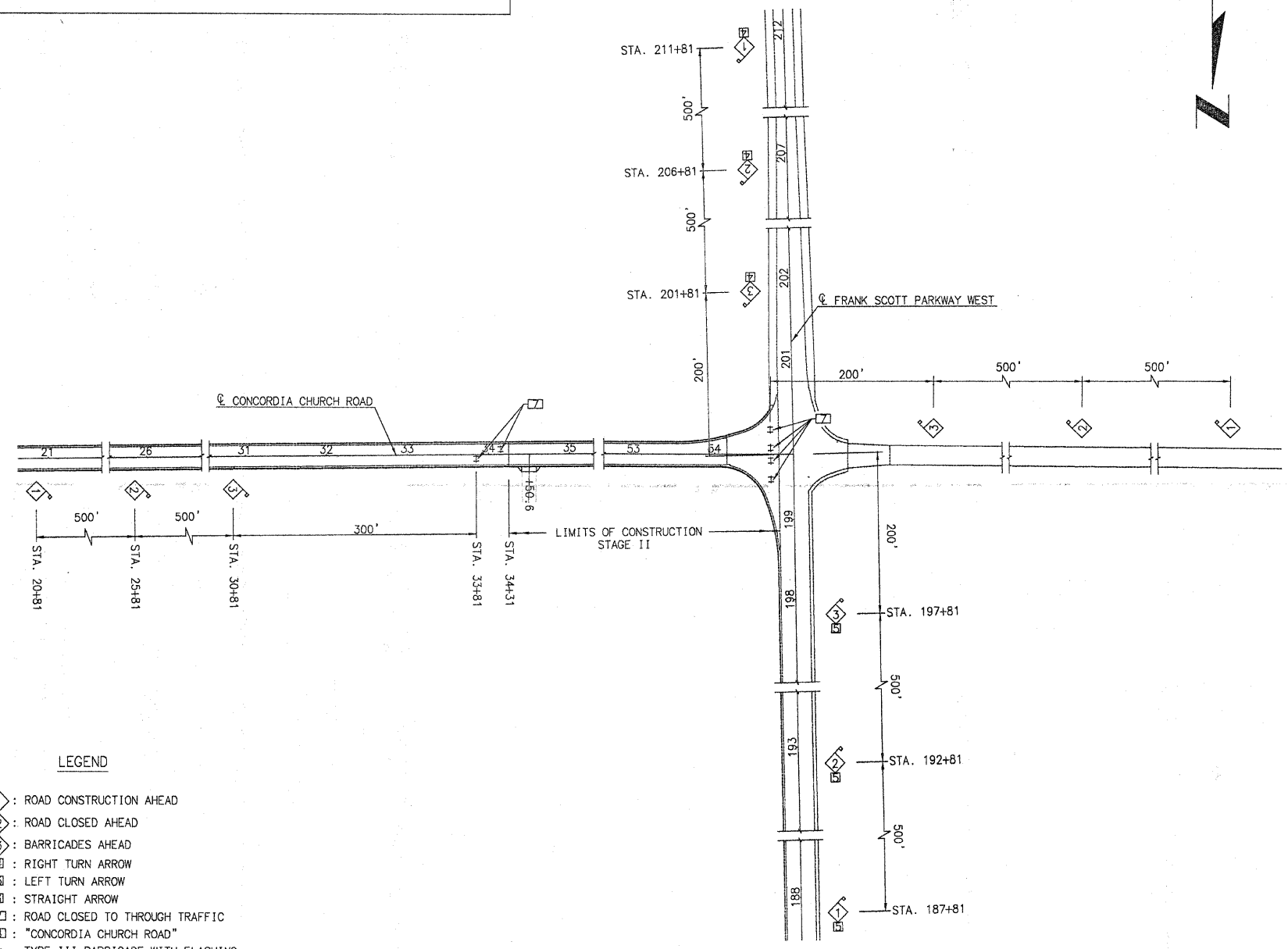
PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT
FILE NAME: 00092-02-PV TCP PLN.dwg

STAGE I LIMITS - STA. 11+00.14 - STA. 34+31

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	43 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

TRAFFIC CONTROL PLAN

NOTES:
 1. THE SIGN PLACEMENT SHOWN HERE SHALL BE APPLIED DURING THE CONSTRUCTION OF STAGE II.
 2. THE ADVANCE WARNING SIGNS AS SHOWN ALONG FRANK SCOTT PARKWAY AND THE WEST APPROACH OF CONCORDIA CHURCH ROAD SHALL REMAIN IN PLACE THROUGHOUT THE DURATION OF THIS PROJECT.



- LEGEND
- ◇ 1 : ROAD CONSTRUCTION AHEAD
 - ◇ 2 : ROAD CLOSED AHEAD
 - ◇ 3 : BARRICADES AHEAD
 - ▣ 4 : RIGHT TURN ARROW
 - ▣ 5 : LEFT TURN ARROW
 - ▣ 6 : STRAIGHT ARROW
 - ▣ 7 : ROAD CLOSED TO THROUGH TRAFFIC
 - ▣ 8 : "CONCORDIA CHURCH ROAD"
 - ± : TYPE III BARRICADE WITH FLASHING AMBER LIGHTS MOUNTED ON TOP RAIL

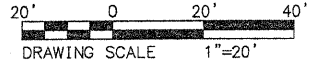
PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	RGEORGEN	10/08
CHECKED	THOLDENER	12/08
DRAWN	RGEORGEN	10/08
CHECKED	THOLDENER	12/08

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT
 FILE NAME: 00092-02-PV TCP PLN.dwg

STAGE II LIMITS - STA. 34+31- STA. 54+15.3

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-0092-02-PV	22	ST. CLAIR	44 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT		CONTRACT # 97415	
EROSION CONTROL PLAN BEGIN - STA. 11+20			



STA. X PROPOSED @ ILLINOIS ROUTE 159+
 STA. 9+15.7 @ CONCORDIA CHURCH ROAD

EXISTING
 @ ILLINOIS ROUTE 159
 PI STA. 657+26.9
 $\Delta = 89^{\circ}42'$
 $T = 495.70'$
 $R = 498.30'$
 $L = 780.12'$
 $SE = 0.08 \text{ FT/FT}$
 PC STA 652+31.2
 PT STA 660+11.3 (C)
 PT STA 662+22.6 (T)

ILLINOIS DEPARTMENT OF
 TRANSPORTATION

PROPOSED ILLINOIS DEPARTMENT OF
 TRANSPORTATION IMPROVEMENT

MARSDEN LEE
 EISLOEFFEL

- LEGEND
- TEMPORARY DITCH CHECK
 - PERIMETER EROSION BARRIER
 - INLET AND PIPE PROTECTION

1 EACH, INLET & PIPE PROTECT

67 FOOT, PERIMETER EROS BAR

PLOT DATE: 11.24.2009

INITIALS	DATE
DESIGNED R GEORGEN	OCT 2008
CHECKED T HOLDENER	DEC 2008
DRAWN R GEORGEN	OCT 2008
CHECKED T HOLDENER	DEC 2008

PREPARED BY ST. CLAIR COUNTY
 HIGHWAY DEPARTMENT

FILE NAME: 00092-02-PV SWPPP BEGIN-1120.dwg

SHEILA FRITZE

REIS

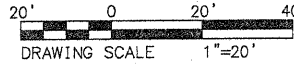
SCHEWE
 BUILDING

SHEILA FRITZE

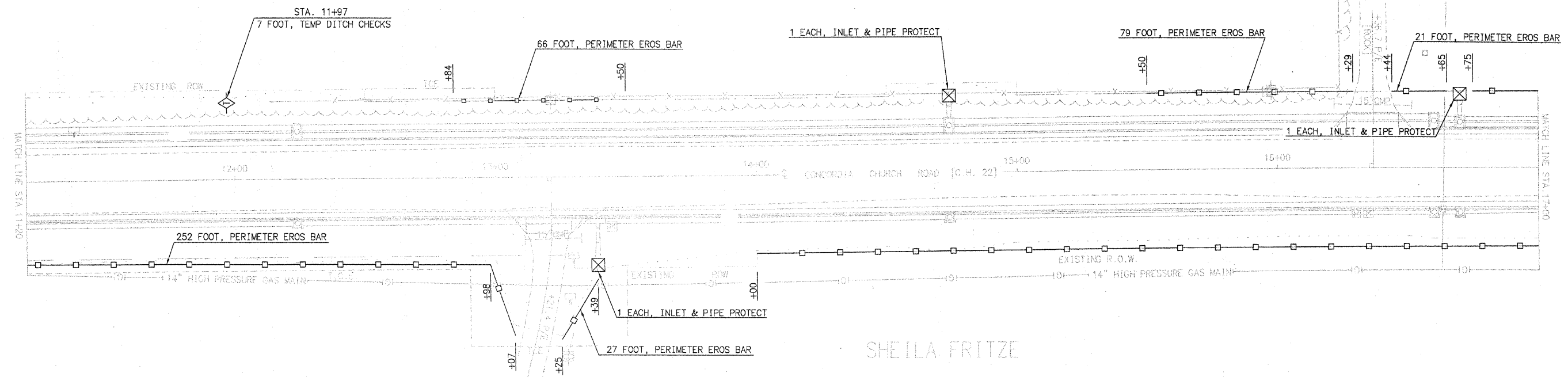
WATCH LINE STA. 11+20

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	45 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

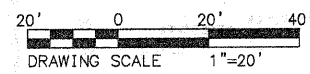
EROSION CONTROL PLAN STA. 11+20 - STA. 23+00



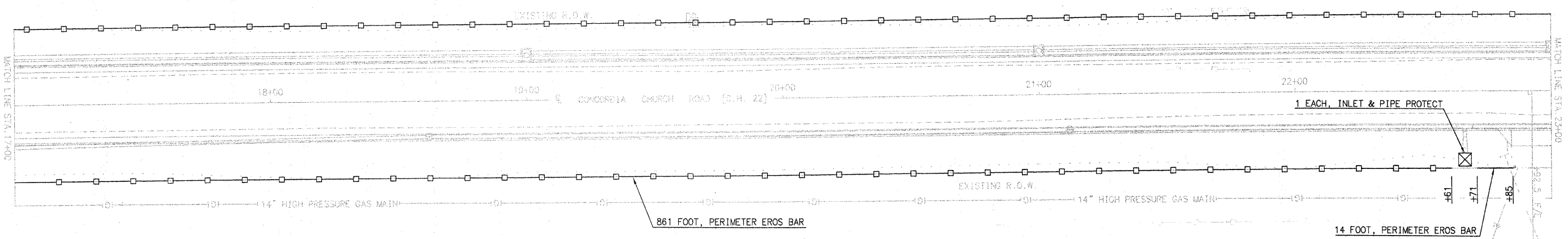
MARSDEN LEE
EISLOEFFEL



SHEILA FRITZE



MARSDEN LEE
EISLOEFFEL



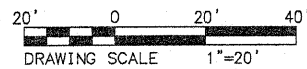
SHEILA FRITZE

HEIDORN

PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	MAY 2008
CHECKED	T HOLDENER	DEC 2008
DRAWN	R GEORGEN	JULY 2008
CHECKED	T HOLDENER	DEC 2008

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT FILE NAME: 00092-02-PV SWPPP 1120-2300.dwg

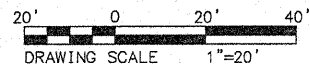
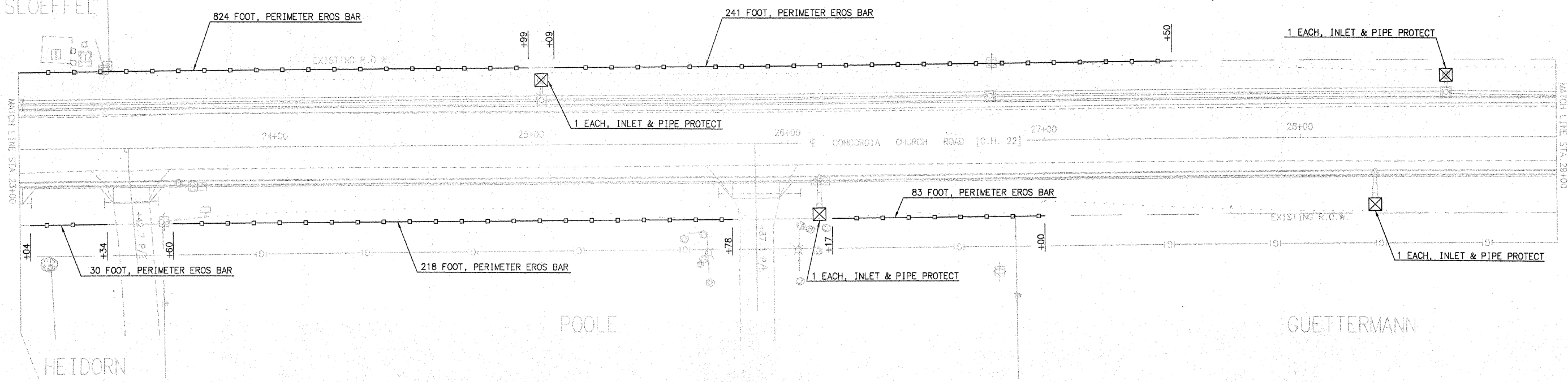


SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	46 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011 (297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

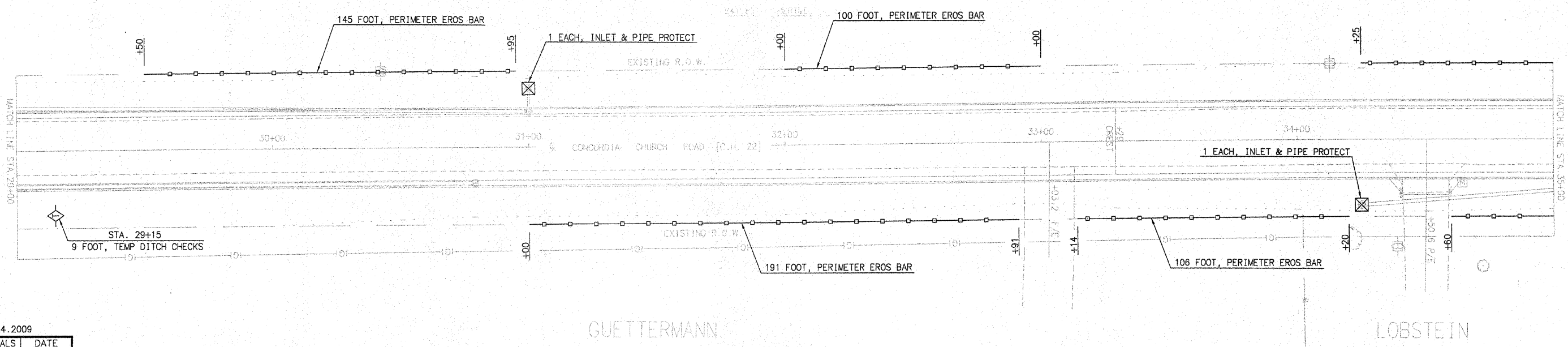
EROSION CONTROL PLAN STA. 23+00 - STA. 35+00

REHKEMPER FAMILY PARTNERSHIP

EISLOEFFEL



REHKEMPER FAMILY PARTNERSHIP

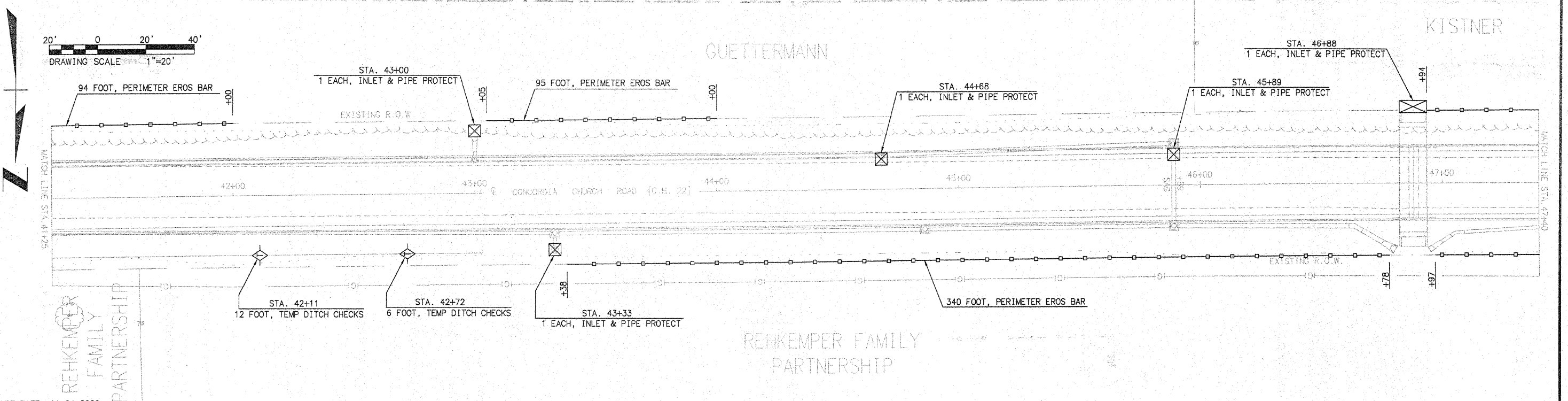
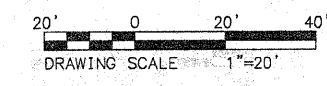
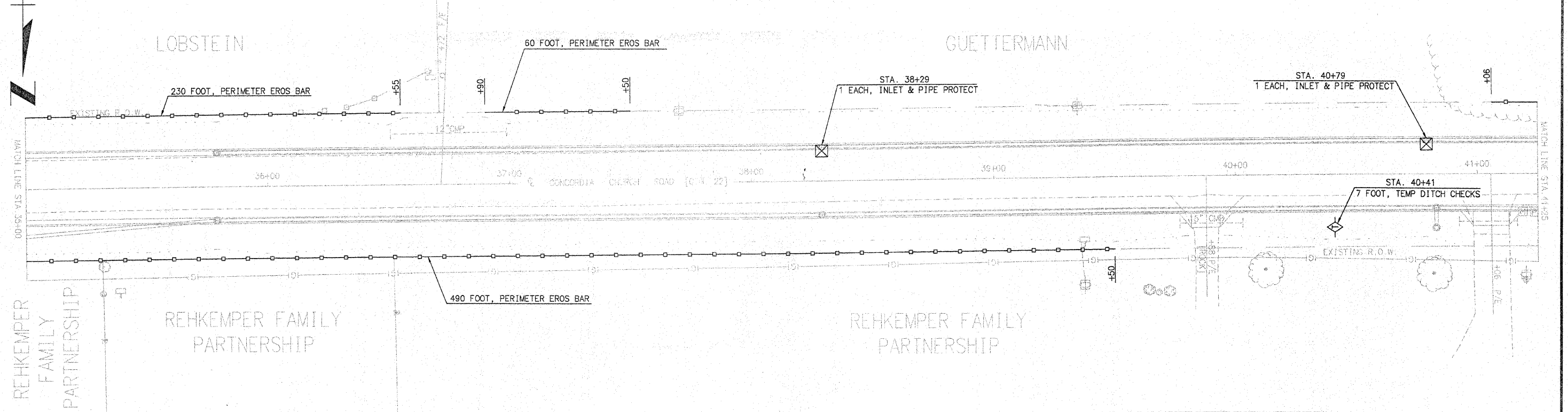
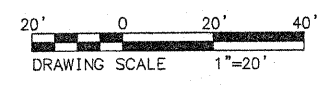


PLOT DATE: 11.24.2009

	INITIALS	DATE
DESIGNED	R GEORGEN	OCT 2008
CHECKED	T HOLDENER	DEC 2008
DRAWN	R GEORGEN	OCT 2008
CHECKED	T HOLDENER	DEC 2008

PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT
FILE NAME: 00092-02-PV SWPPP 2300-3500.dwg

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	47 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011 (297)	
FEDERAL AID PROJECT	CONTRACT # 97415		
EROSION CONTROL PLAN STA. 35+00 - STA. 47+40			

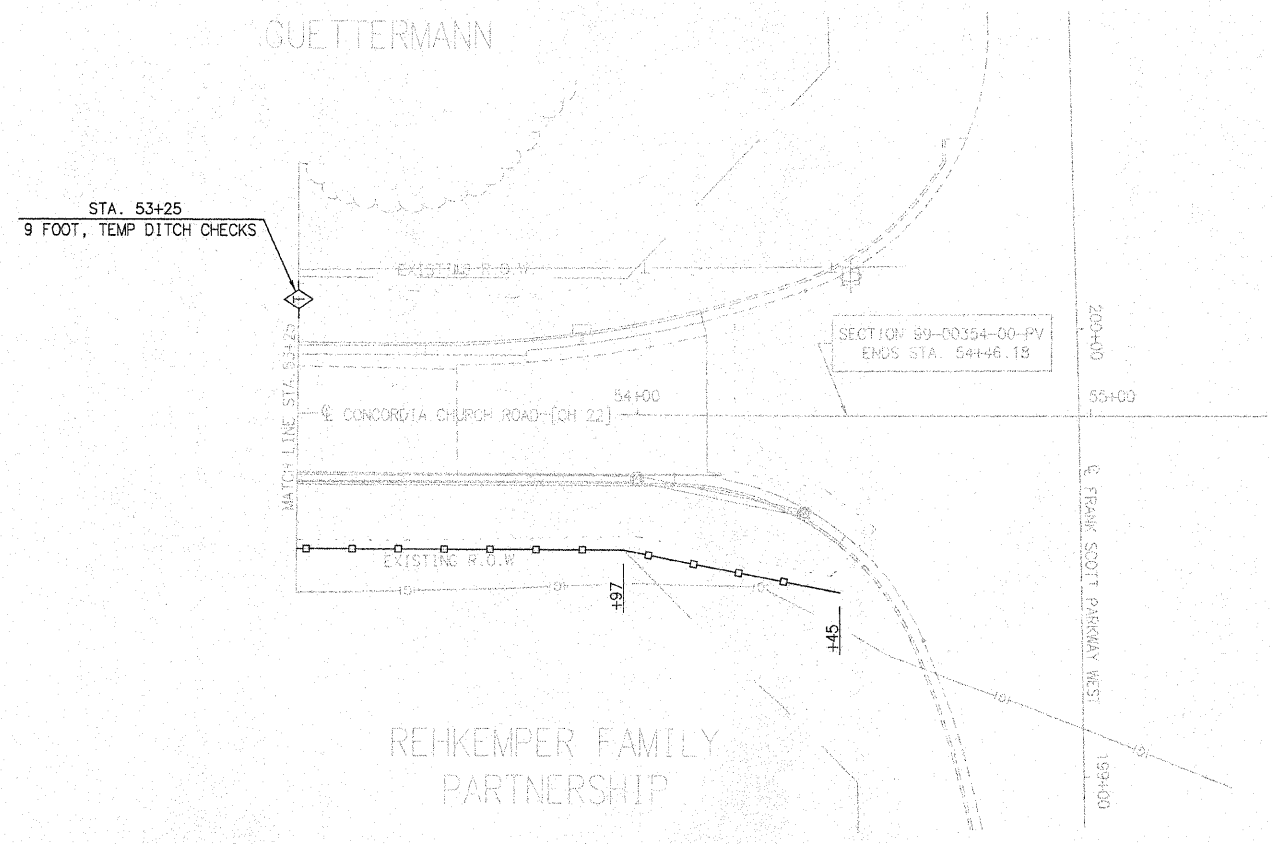
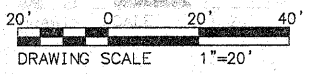
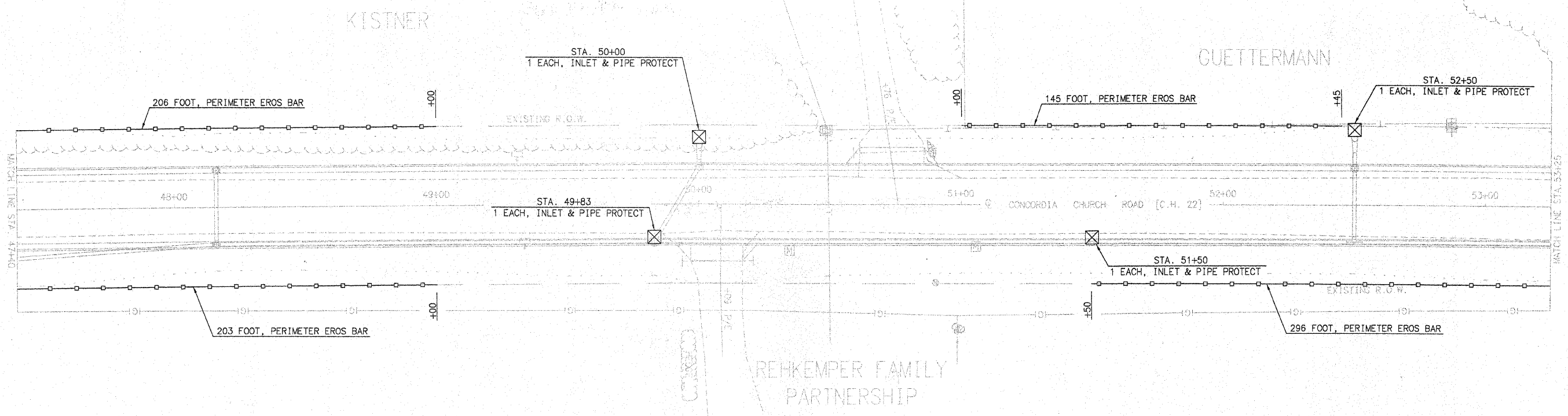
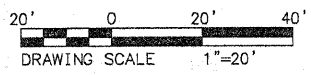


PLOT DATE: 11.24.2009	
INITIALS	DATE
DESIGNED R GEORGEN	OCT 2008
CHECKED T HOLDENER	DEC 2008
DRAWN R GEORGEN	OCT 2008
CHECKED T HOLDENER	DEC 2008
PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT	

FILE NAME: 00092-02-PV SWPPP 3500-4740.dwg

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	48 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011 (297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

EROSION CONTROL PLAN STA. 47+40 - END



PLOT DATE: 11.24.2009

INITIALS	DATE
DESIGNED R GEORGEN	OCT 2008
CHECKED T HOLDENER	DEC 2008
DRAWN R GEORGEN	OCT 2008
CHECKED T HOLDENER	DEC 2008

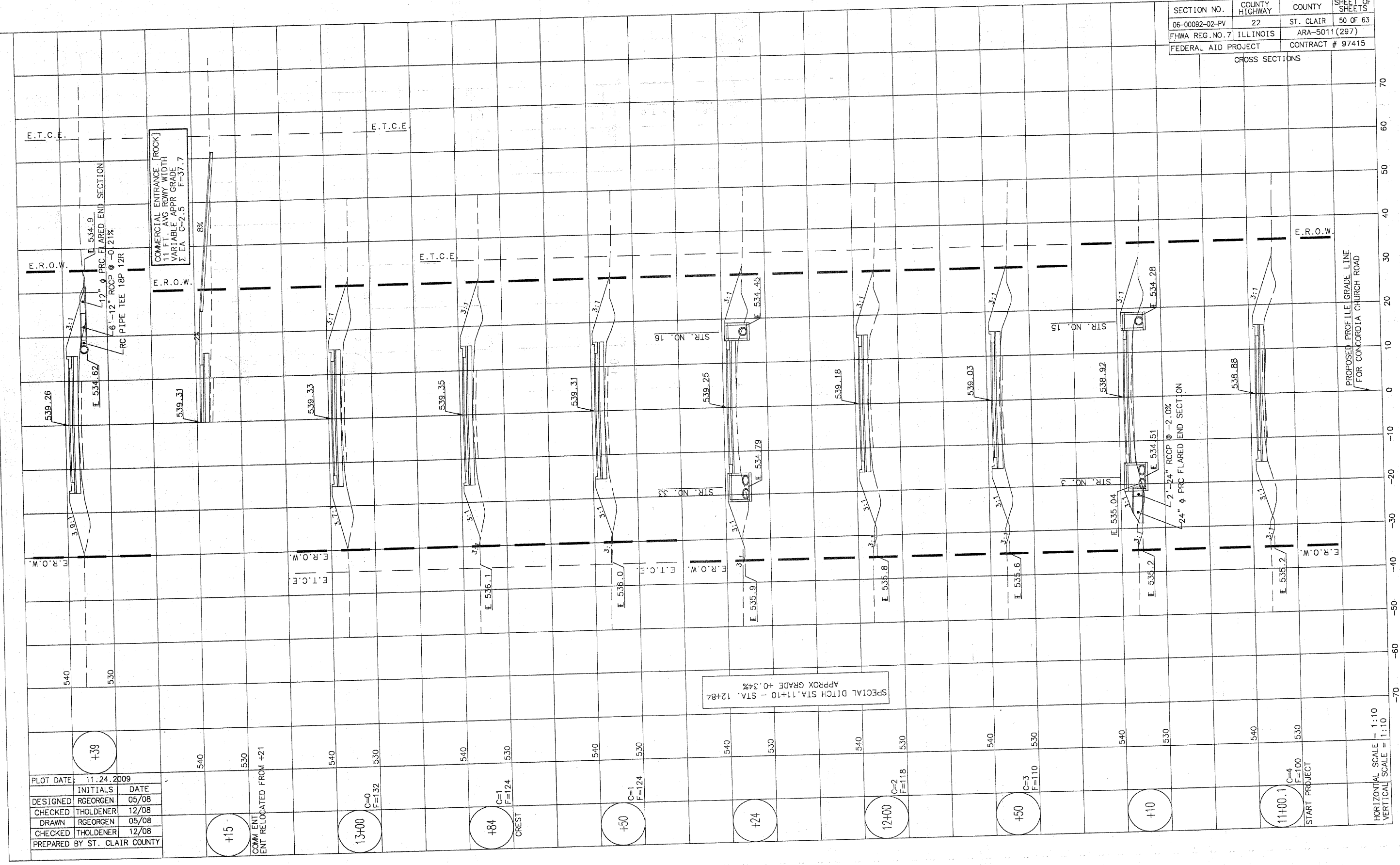
PREPARED BY ST. CLAIR COUNTY HIGHWAY DEPARTMENT

FILE NAME: 00092-02-PV SWPPP 4740-END.dwg

PLOT DATE: 04.28.2009 DRAWING FILE: 00092-02-PV XSEC 0-3450.dwg

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	50 OF 63
FHWA REG.NO.7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

CROSS SECTIONS



PLOT DATE:	11.24.2009
INITIALS	
DATE	
DESIGNED	RGEORGEN 05/08
CHECKED	THOLDNER 12/08
DRAWN	RGEORGEN 05/08
CHECKED	THOLDNER 12/08
PREPARED BY	ST. CLAIR COUNTY

+39

+15

540
530
COMMENT
MENT RELOCATED FROM +21

+13+00

540
530
C=0
F=132

+84

540
530
C=1
F=124
CREST

+50

540
530
C=1
F=124

+24

540
530

+12+00

540
530
C=2
F=118

+50

540
530
C=3
F=110

+10

540
530

+11+00.1

540
530
C=4
F=100
START PROJECT

SPECIAL DITCH STA. 11+10 - STA. 12+84
APPROX GRADE +0.34%

COMMERCIAL ENTRANCE [ROCK]
11 FT. AVG ROWY WIDTH
VARIABLE APPR GRADE
Σ EA C=2.5 F=37.7

PROPOSED PROFILE GRADE LINE
FOR CONCORDIA CHURCH ROAD

HORIZONTAL SCALE = 1:10
VERTICAL SCALE = 1:10

DRAWING FILE: 00092-02-PV XSEC 0-3450.dwg

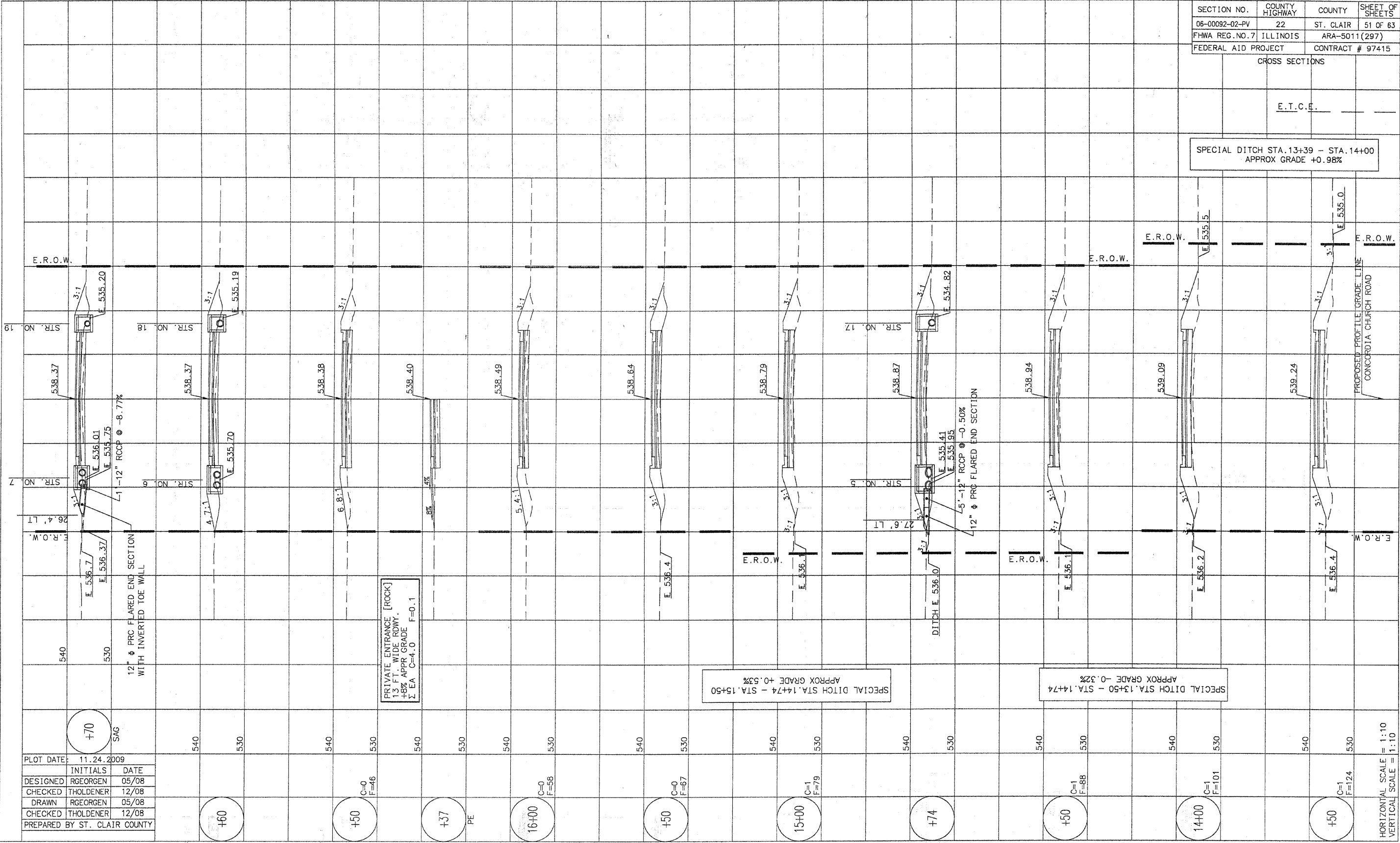
PLOT DATE:

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	51 OF 63
FHWA REG. NO. 7	ILLINOIS		ARA-5011 (297)
FEDERAL AID PROJECT	CONTRACT # 97415		

CROSS SECTIONS

E.T.C.E.

SPECIAL DITCH STA. 13+39 - STA. 14+00
APPROX GRADE +0.98%



HORIZONTAL SCALE = 1:10
VERTICAL SCALE = 1:10

PLOT DATE:	11.24.2009
INITIALS	DATE
DESIGNED RGEORGEN	05/08
CHECKED THOLDENER	12/08
DRAWN RGEORGEN	05/08
CHECKED THOLDENER	12/08
PREPARED BY	ST. CLAIR COUNTY

+70
SAG

+60

+50
C=0
F=46

+37
PE

16+00
C=0
F=58

+50
C=0
F=67

15+00
C=1
F=79

+74

+50
C=1
F=88

14+00
C=1
F=101

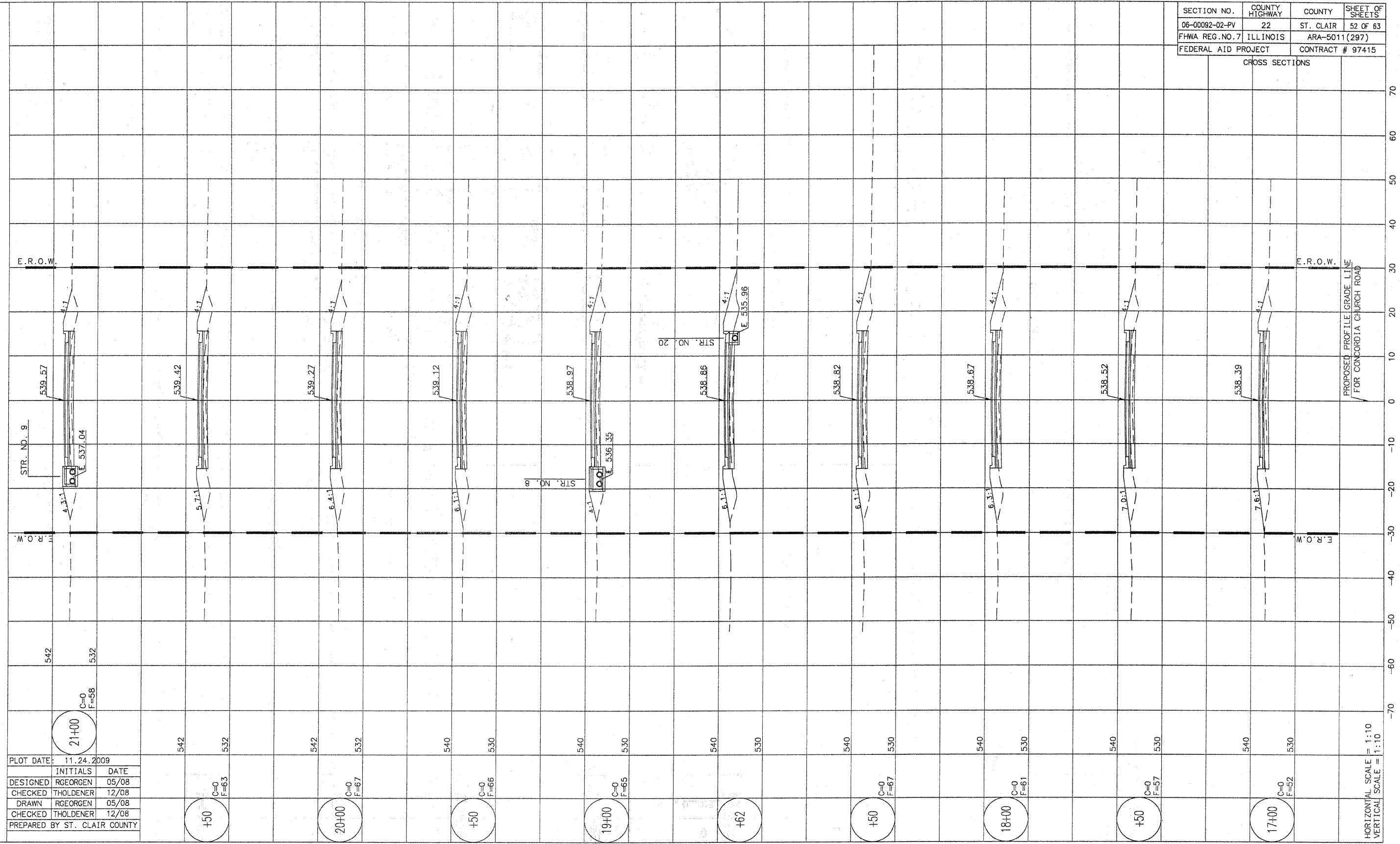
+50
C=1
F=124

DRAWING FILE: 00092-02-PV XSEC 0-3450.dwg

PLOT DATE:

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	52 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

CROSS SECTIONS



DESIGNED	RGEORGEN	05/08
CHECKED	THOLDENER	12/08
DRAWN	RGEORGEN	05/08
CHECKED	THOLDENER	12/08
PREPARED BY ST. CLAIR COUNTY		

INITIALS	DATE
RGEORGEN	05/08
THOLDENER	12/08
RGEORGEN	05/08
THOLDENER	12/08

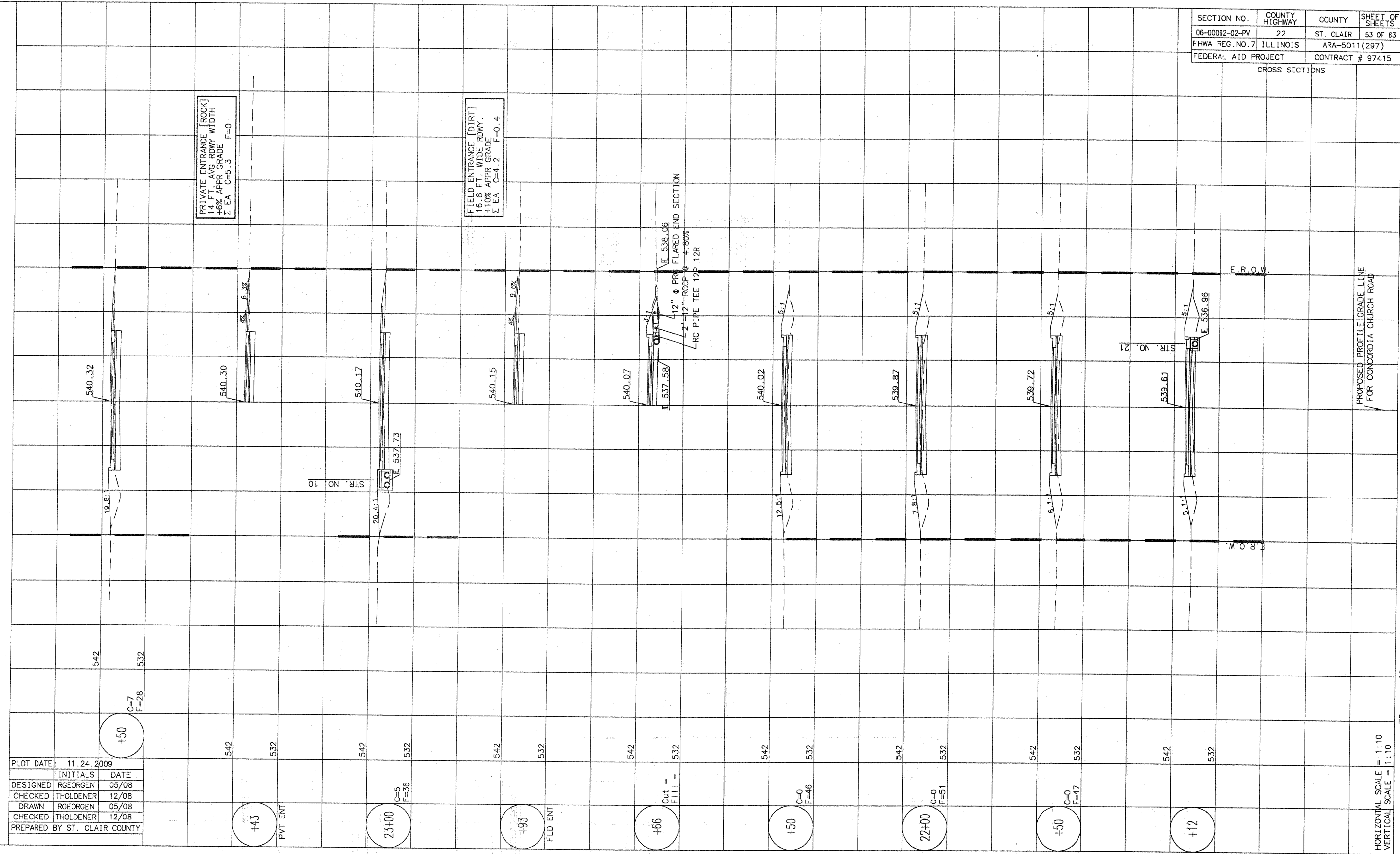
HORIZONTAL SCALE = 1:10
VERTICAL SCALE = 1:10

DRAWING FILE: 00092-02-PV XSEC 0-3450.dwg

PLOT DATE:

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	53 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

CROSS SECTIONS



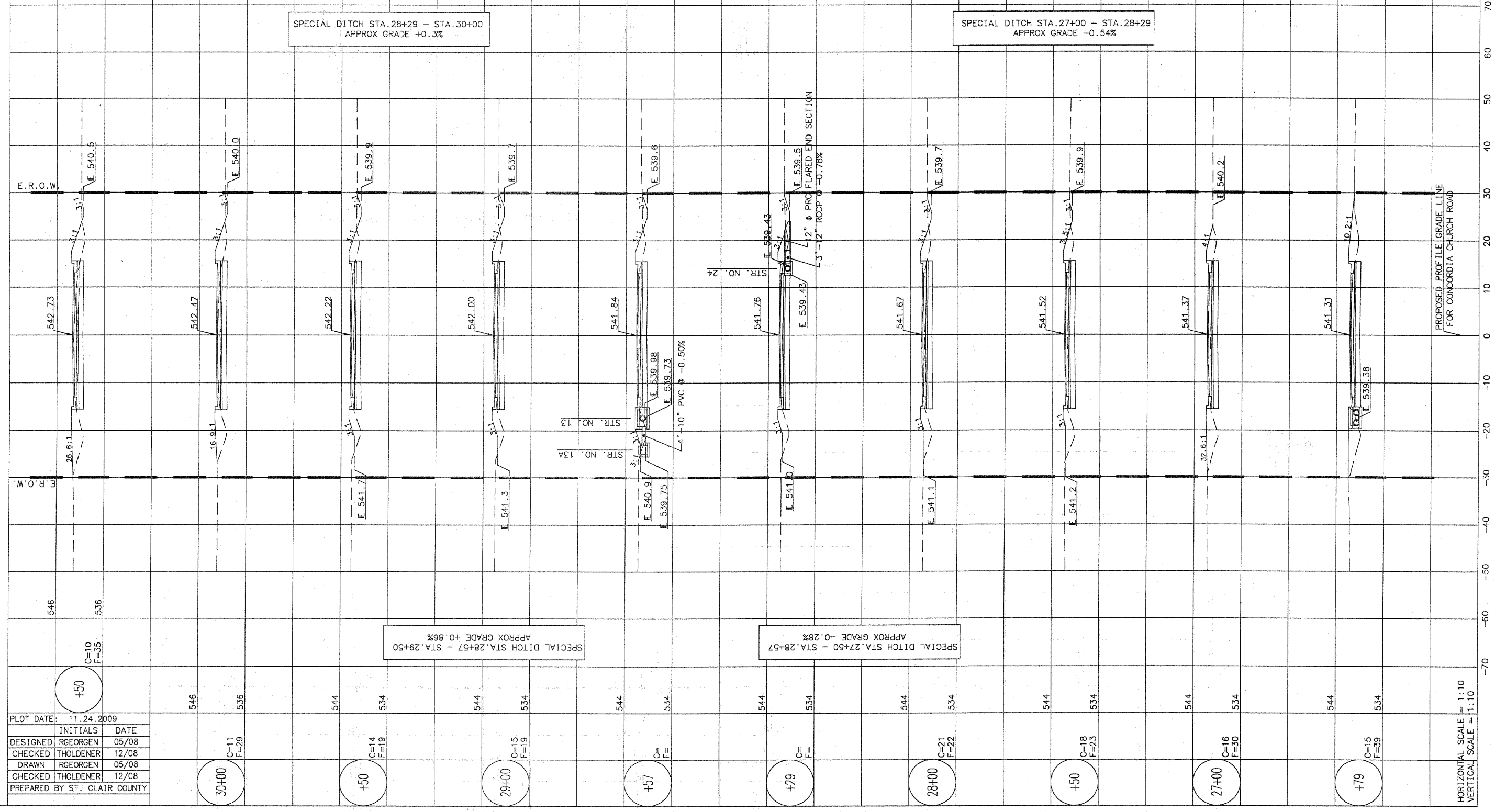
PLOT DATE: 11.24.2009	
DESIGNED	RGEORGEN 05/08
CHECKED	THOLDENER 12/08
DRAWN	RGEORGEN 05/08
CHECKED	THOLDENER 12/08
PREPARED BY ST. CLAIR COUNTY	

HORIZONTAL SCALE = 1:10
VERTICAL SCALE = 1:10

DRAWING FILE: 00092-02-PV XSEC 0-3450.dwg
 PLOT DATE:

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	55 OF 63
FHWA REG. NO. 7		ILLINOIS	ARA-5011(297)
FEDERAL AID PROJECT		CONTRACT # 97415	

CROSS SECTIONS



PLOT DATE:	11.24.2009	
DESIGNED	RGEORGEN	05/08
CHECKED	THOLDNER	12/08
DRAWN	RGEORGEN	05/08
CHECKED	THOLDNER	12/08
PREPARED BY	ST. CLAIR COUNTY	

HORIZONTAL SCALE = 1:10
 VERTICAL SCALE = 1:10

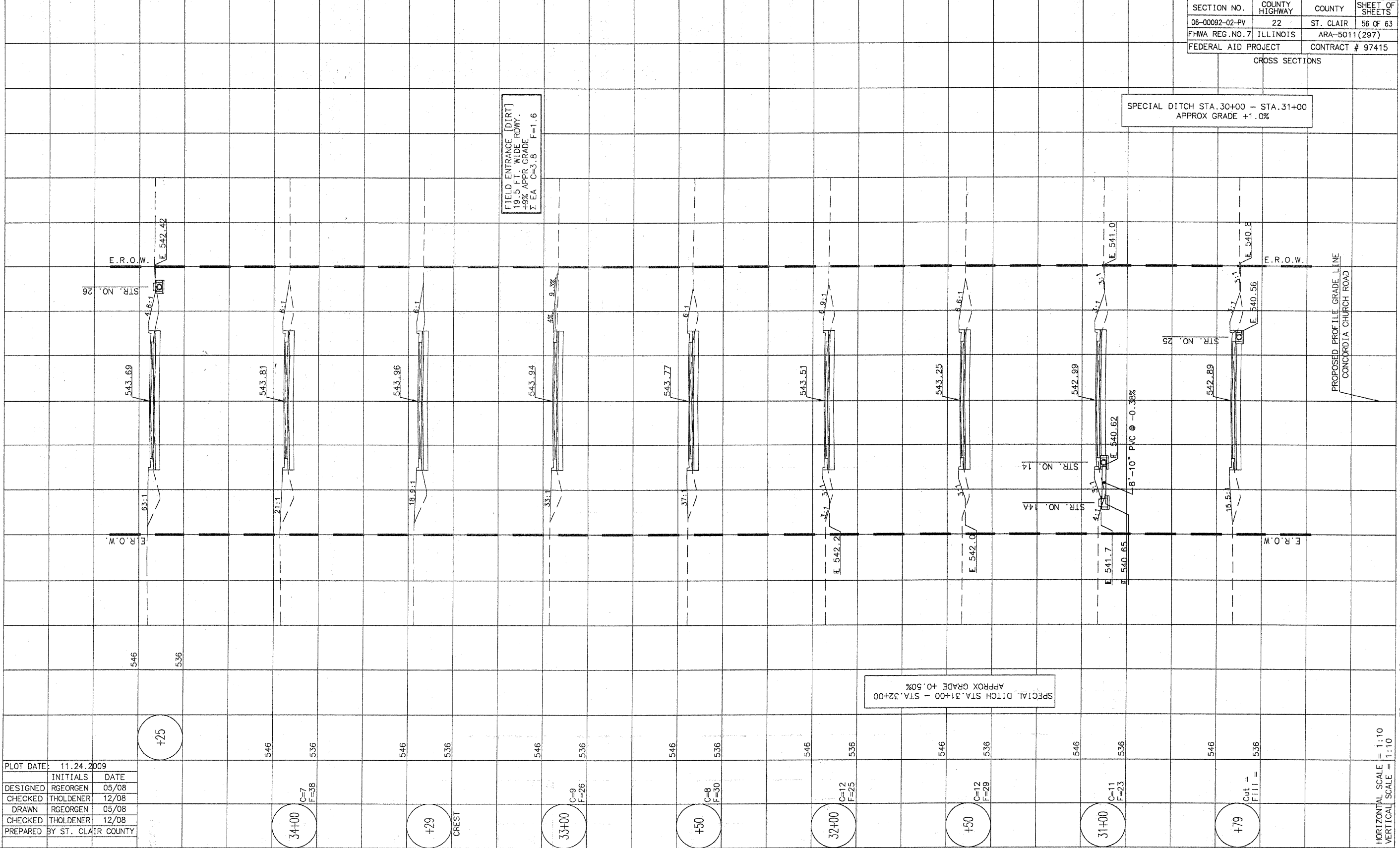
DRAWING FILE: 00092-02-PV XSEC 0-3450.dwg

PLOT DATE:

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-0092-02-PV	22	ST. CLAIR	56 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011 (297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

CROSS SECTIONS

SPECIAL DITCH STA. 30+00 - STA. 31+00
APPROX GRADE +1.0%



PLOT DATE:	11.24.2009	
INITIALS	DATE	
DESIGNED RGEORGEN	05/08	
CHECKED THOLDENER	12/08	
DRAWN RGEORGEN	05/08	
CHECKED THOLDENER	12/08	
PREPARED BY	ST. CLAIR COUNTY	

HORIZONTAL SCALE = 1:10
VERTICAL SCALE = 1:10

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	57 OF 63
FHWA REG. NO. 7 ILLINOIS		ARA-5011 (297)	
FEDERAL AID PROJECT		CONTRACT # 97415	

CROSS SECTIONS

PRIVATE ENTRANCE [DIRT]
18 FT. AVG ROWY WIDTH
+4% APPR GRADE F=0.6
Σ EA C=3.5

E.R.O.W.

E.R.O.W.

PROPOSED PROFILE GRADE LINE
CONCORDIA CHURCH ROAD

E.R.O.W.

PLOT DATE:	11.24.2009	
INITIALS	DATE	
DESIGNED	RGEORGEN	05/08
CHECKED	THOLDENER	12/08
DRAWN	RGEORGEN	05/08
CHECKED	THOLDENER	12/08
PREPARED BY ST. CLAIR COUNTY		

38+00
C=32
F=22

+50
C=31
F=21

37+00
C=29
F=20

+72
FLD ENT

+50
C=27
F=20

36+00
C=21
F=25

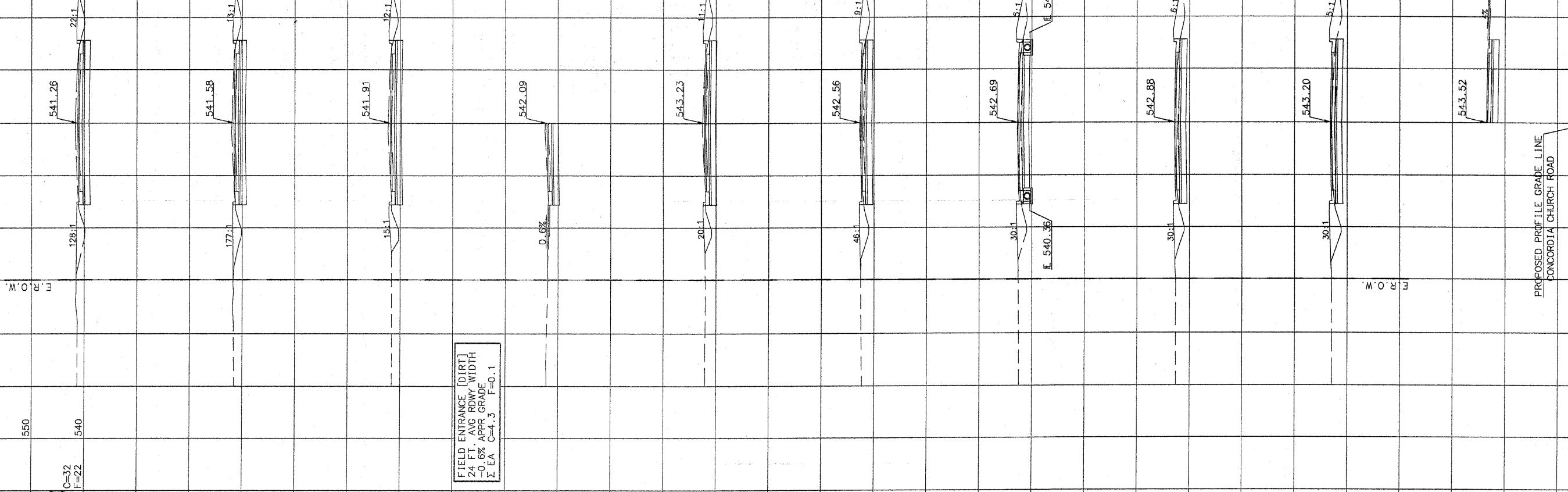
+79

+50
C=17
F=27

35+00
C=13
F=29

+51
PVT ENT

HORIZONTAL SCALE = 1:10
VERTICAL SCALE = 1:10



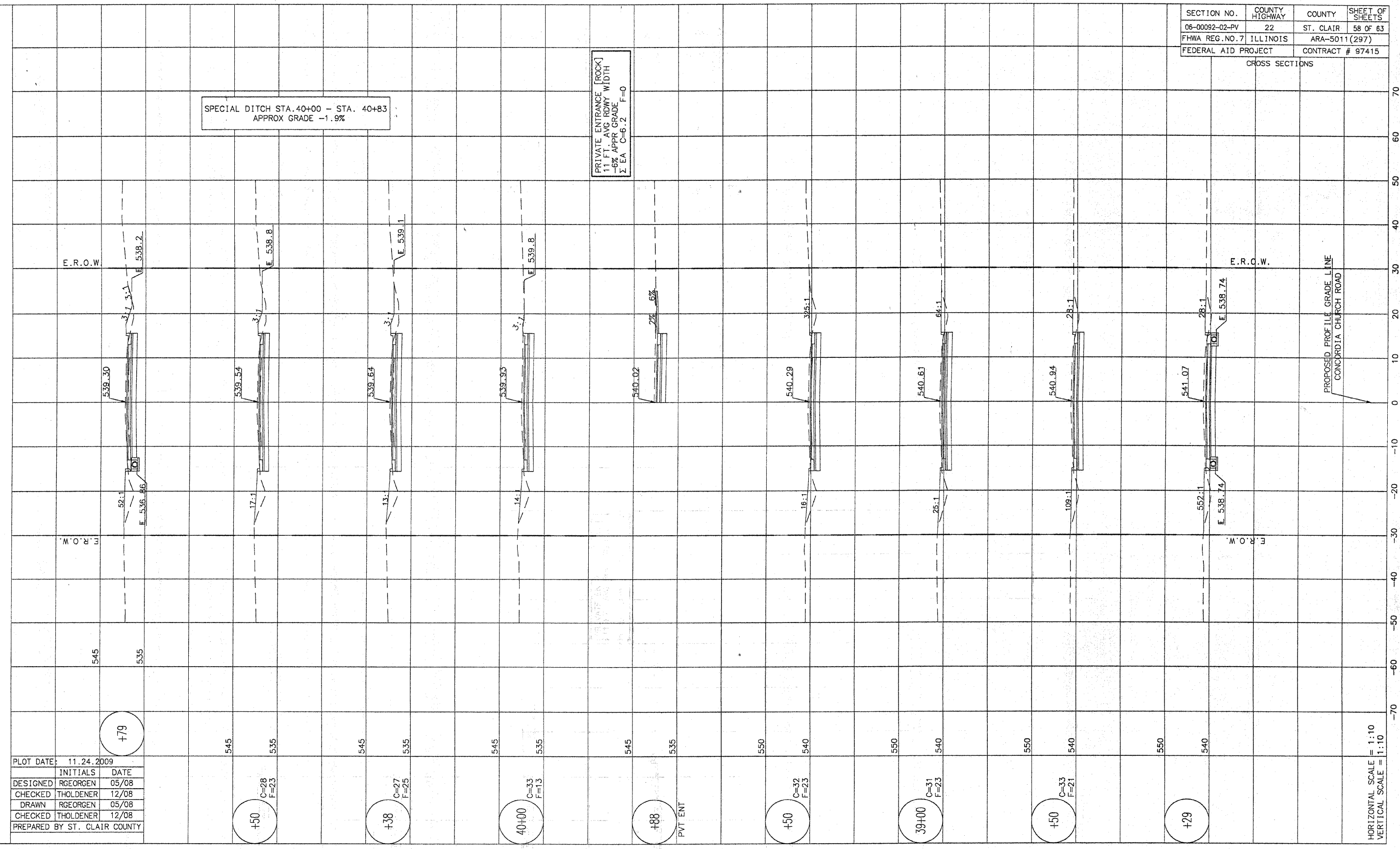
SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	58 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011	(297)
FEDERAL AID PROJECT	CONTRACT # 97415		

CROSS SECTIONS

SPECIAL DITCH STA. 40+00 - STA. 40+83
APPROX GRADE -1.9%

PRIVATE ENTRANCE [ROCK]
11 FT. AVG. ROWY WIDTH
-6% APPR. GRADE F=0
Σ EA C=6.2 F=0

DESIGNED	RGEORGEN	05/08
CHECKED	THOLDENER	12/08
DRAWN	RGEORGEN	05/08
CHECKED	THOLDENER	12/08
PREPARED BY ST. CLAIR COUNTY		



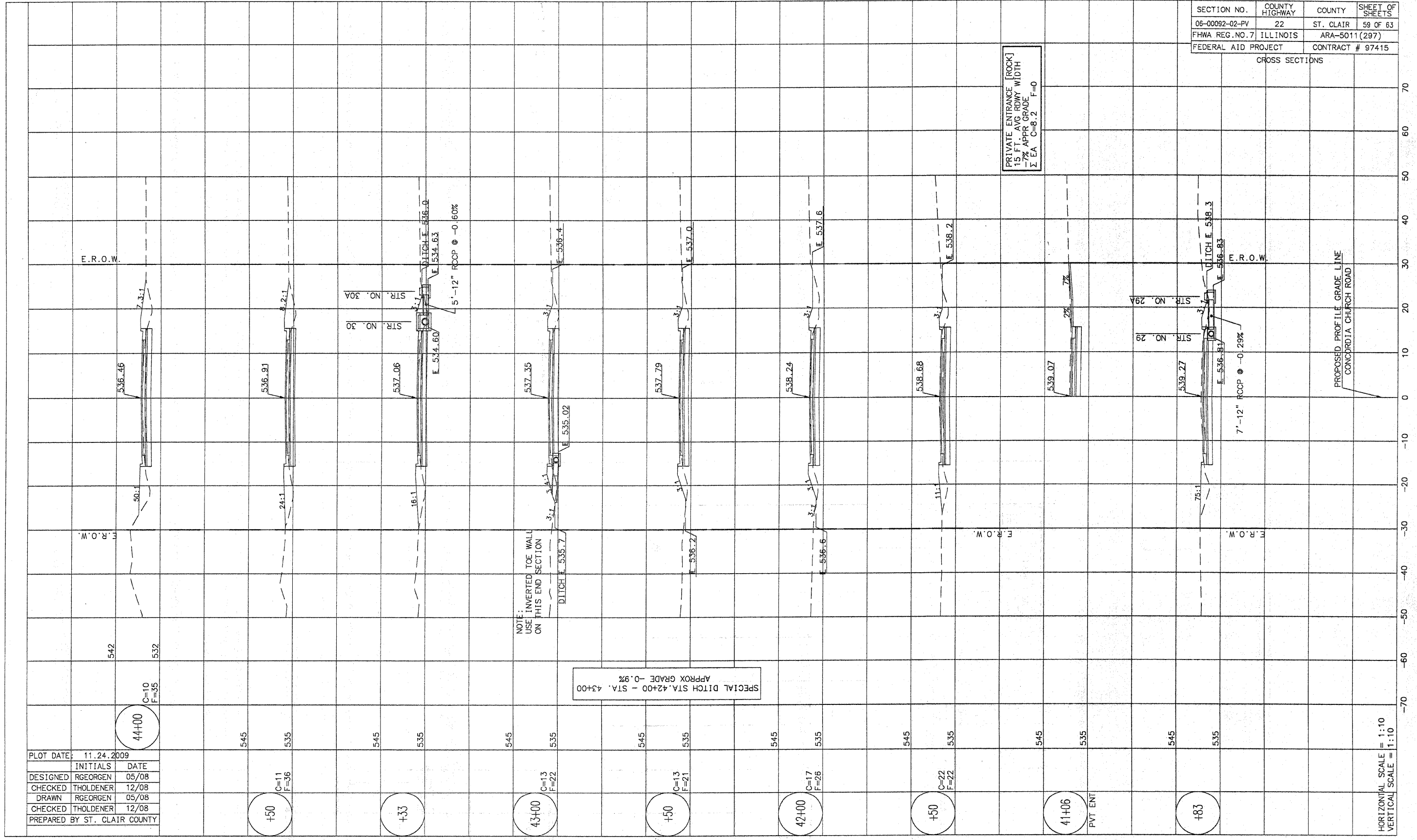
PROPOSED PROFILE GRADE LINE
CONCORDIA CHURCH ROAD

HORIZONTAL SCALE = 1:10
VERTICAL SCALE = 1:10

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	59 OF 63
FHWA REG. NO. 7		ILLINOIS	ARA-5011 (297)
FEDERAL AID PROJECT		CONTRACT # 97415	

CROSS SECTIONS

PRIVATE ENTRANCE [ROCK]
15 FT. AVG ROWY WIDTH
-7% APPR GRADE
Σ EA C=8.2 F=0



NOTE:
USE INVERTED TOE WALL
ON THIS END SECTION

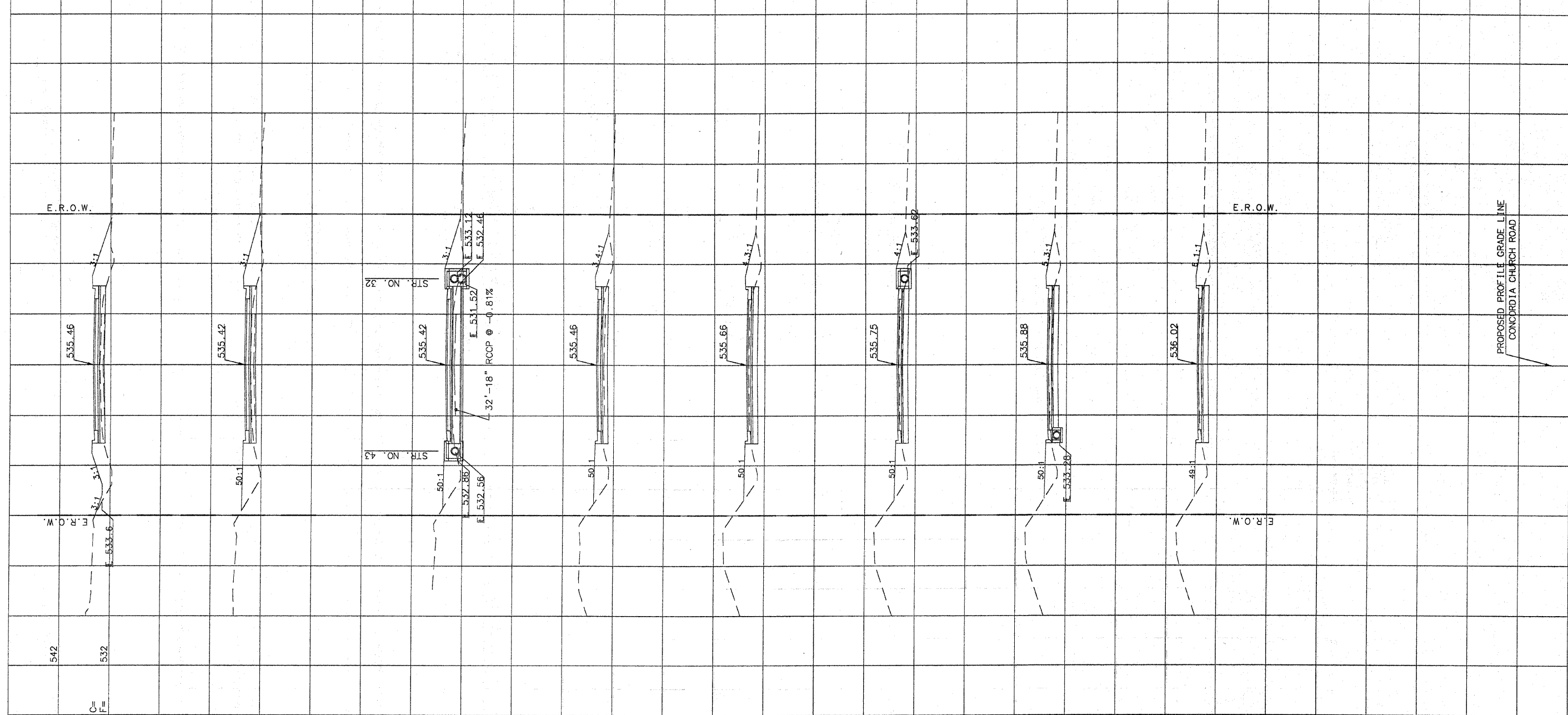
SPECIAL DITCH STA. 42+00 - STA. 43+00
APPROX GRADE -0.9%

PLOT DATE: 11.24.2009		
DESIGNED	RGEORGEN	05/08
CHECKED	THOLDENER	12/08
DRAWN	RGEORGEN	05/08
CHECKED	THOLDENER	12/08
PREPARED BY ST. CLAIR COUNTY		

HORIZONTAL SCALE = 1:10
VERTICAL SCALE = 1:10

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	60 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

CROSS SECTIONS



PROPOSED PROFILE GRADE LINE
CONCORDIA CHURCH ROAD

PLOT DATE: 11.24.2009	
DESIGNED	RGEORGEN 05/08
CHECKED	THOLDENER 12/08
DRAWN	RGEORGEN 05/08
CHECKED	THOLDENER 12/08
PREPARED BY ST. CLAIR COUNTY	

+27
C=
F=

46+00
C=0
F=81

+89
SAG

+50

45+00
C=6
F=39

+86

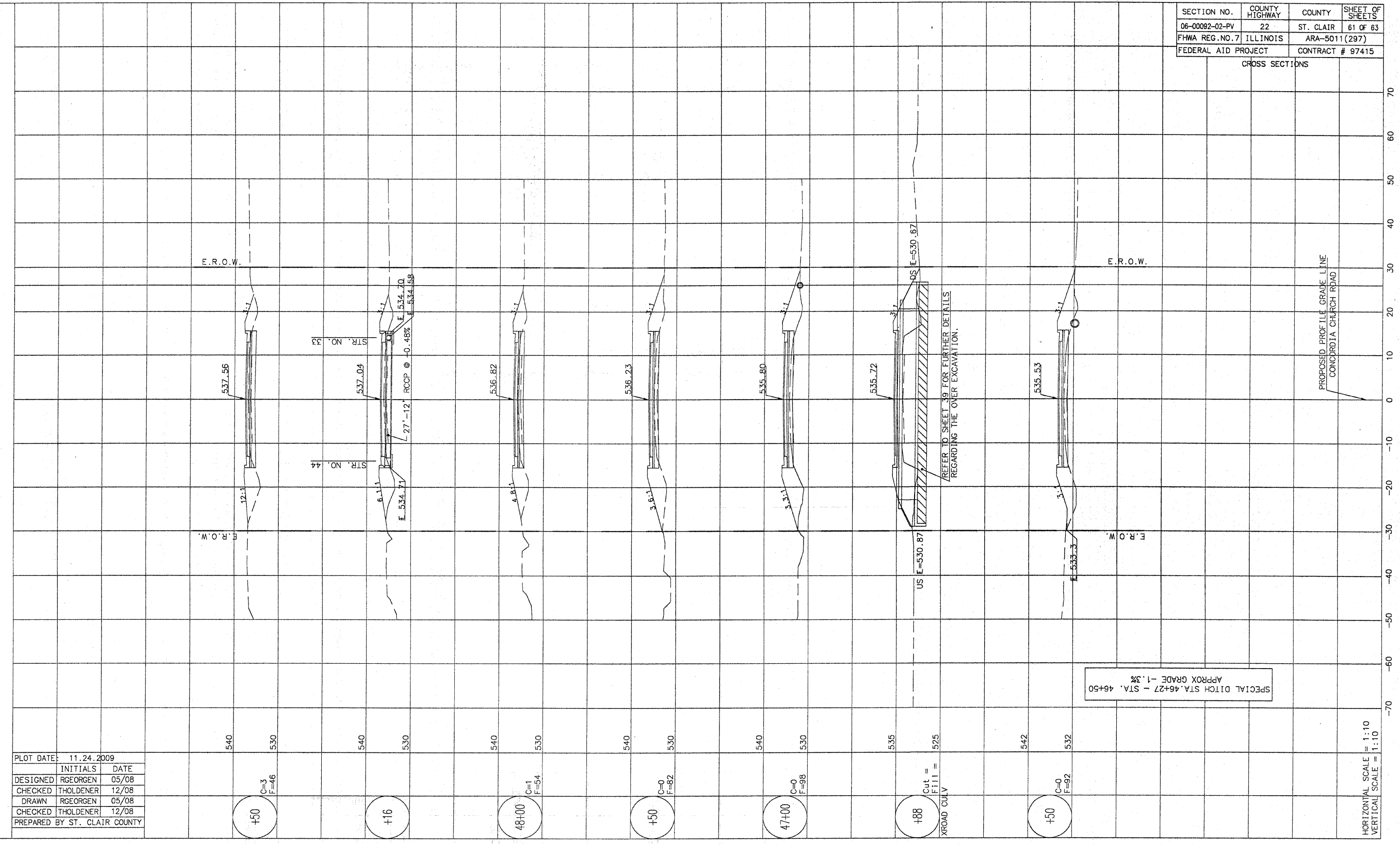
+68

+50
C=11
F=35

HORIZONTAL SCALE = 1:10
VERTICAL SCALE = 1:10

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	61 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011 (297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

CROSS SECTIONS



PLOT DATE: 11.24.2009	
INITIALS	DATE
DESIGNED RGEORGEN	05/08
CHECKED THOLDENER	12/08
DRAWN RGEORGEN	05/08
CHECKED THOLDENER	12/08
PREPARED BY ST. CLAIR COUNTY	

+50
C=3
F=46

+16

48+00
C=1
F=54

+50
C=0
F=82

47+00
C=0
F=98

+88
Cut =
Fill =
XROAD CULV

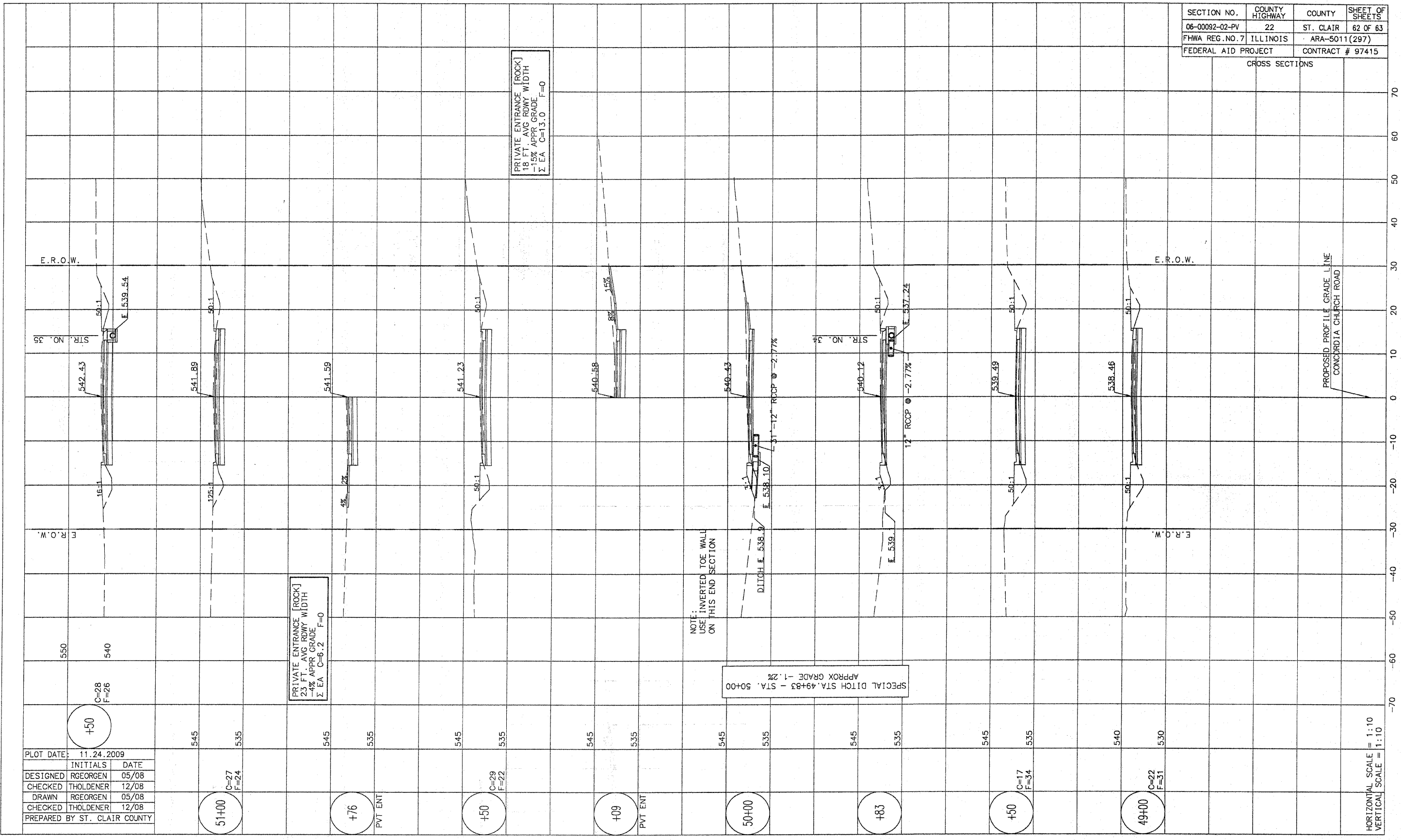
+50
C=0
F=92

SPECIAL DITCH STA. 46+27 - STA. 46+50
APPROX GRADE -1.3%

HORIZONTAL SCALE = 1:10
VERTICAL SCALE = 1:10

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-0092-02-PV	22	ST. CLAIR	62 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011(297)	
FEDERAL AID PROJECT	CONTRACT # 97415		

CROSS SECTIONS



DESIGNED	RGEORGEN	05/08
CHECKED	THOLDENER	12/08
DRAWN	RGEORGEN	05/08
CHECKED	THOLDENER	12/08
PREPARED BY ST. CLAIR COUNTY		

PLOT DATE: 11.24.2009

C=28
F=26

550
540

E.R.O.W.

E.R.O.W.

545
535

545
535

545
535

545
535

545
535

545
535

545
535

545
535

545
535

545
535

545
535

545
535

545
535

51+00
C=27
F=24

+76
PVT ENT

+50
C=29
F=22

+09
PVT ENT

50+00

+83

+50
C=17
F=34

49+00
C=22
F=31

PRIVATE ENTRANCE [ROCK]
23 FT. AVG RDWY WIDTH
-4% APPR GRADE
Σ EA C=6.2 F=0

PRIVATE ENTRANCE [ROCK]
18 FT. AVG RDWY WIDTH
-15% APPR GRADE
Σ EA C=13.0 F=0

NOTE:
USE INVERTED TOE WALL
ON THIS END SECTION

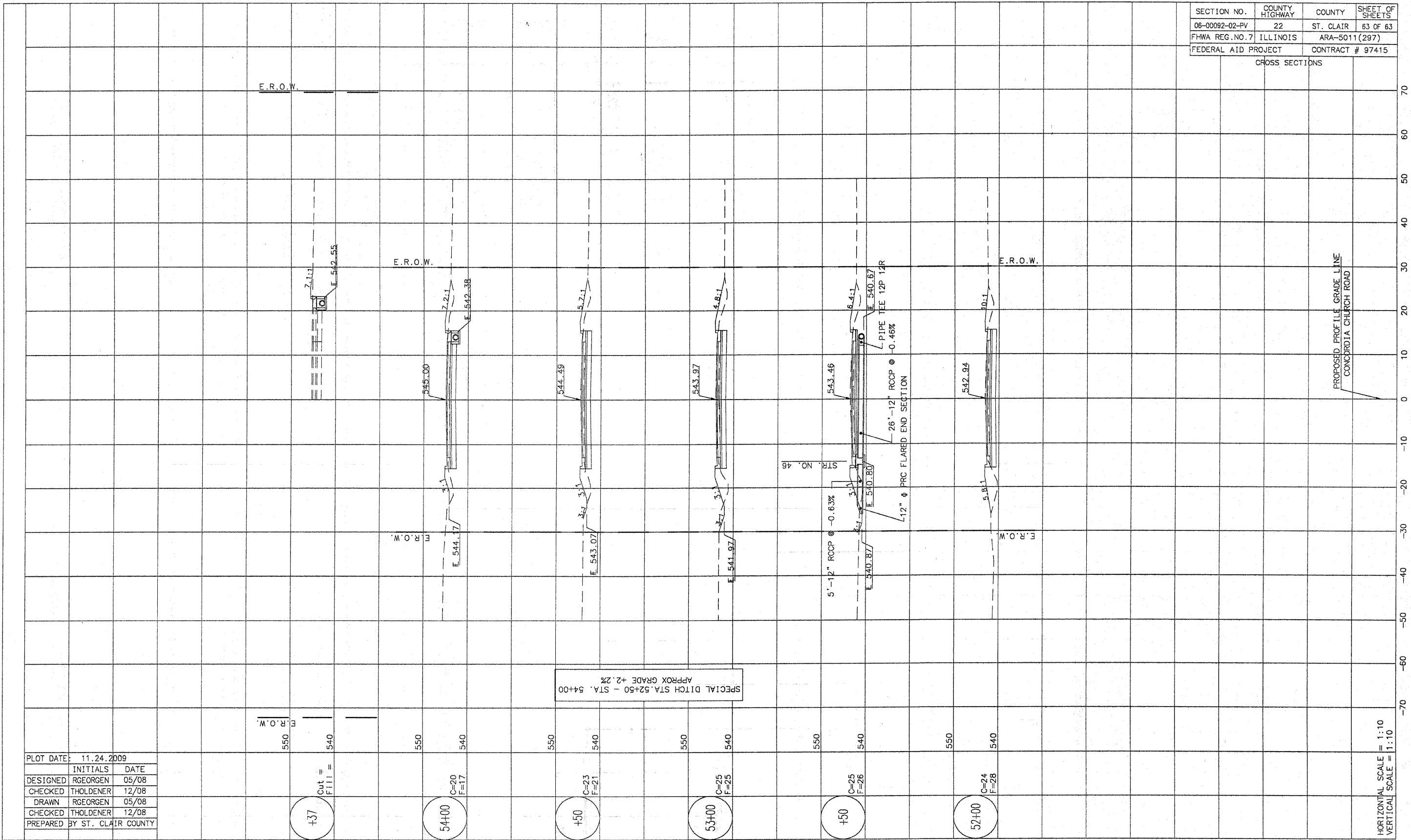
SPECIAL DITCH STA. 49+83 - STA. 50+00
APPROX GRADE -1.2%

PROPOSED PROFILE GRADE LINE
CONCORDIA CHURCH ROAD

HORIZONTAL SCALE = 1:10
VERTICAL SCALE = 1:10

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
06-00092-02-PV	22	ST. CLAIR	63 OF 63
FHWA REG. NO. 7	ILLINOIS	ARA-5011	(297)
FEDERAL AID PROJECT	CONTRACT # 97415		

CROSS SECTIONS



+37
Cut =
Fill =

54+00
C=20
F=17

+50
C=23
F=21

53+00
C=25
F=25

+50
C=25
F=26

52+00
C=24
F=28

HORIZONTAL SCALE = 1:10
VERTICAL SCALE = 1:10