

ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 556	04-00119-03-BR	SANGAMON	26	1

INDEX OF SHEETS

- 1 COVER SHEET
- 2-3 SUMMARY OF QUANTITIES/GENERAL NOTES
- 4 EXISTING/PROPOSED TYPICAL SECTIONS
- 5 QUANTITY SCHEDULES/SPECIAL DETAILS
- 6 PLAN AND PROFILE
- 7 ROAD CLOSURE PLAN
- 8 INTERSECTION DETAIL
- 9 UTILITY PLAN AND PROFILE - WATERMAIN
- 10-12 UTILITY PLAN AND PROFILE - SANITARY SEWER
- 13-14 UTILITY TYPICAL DETAILS
- 15-20 STRUCTURAL DRAWINGS
- 21-26 ROADWAY CROSS SECTIONS

STATE OF ILLINOIS SANGAMON COUNTY HIGHWAY DEPARTMENT

PLANS FOR PROPOSED HIGHWAY BRIDGE PROGRAM SECTION: 04-00119-03-BR PROJECT NO.: BRS-556(309) JOB NO.: C-96-214-07

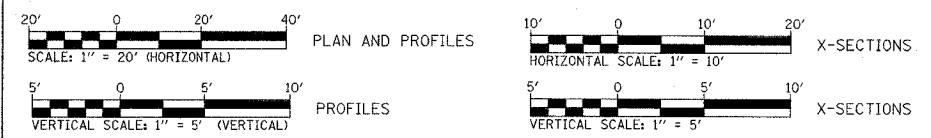
(FAS 556) EAST MAIN STREET BRIDGE REPLACEMENT VILLAGE OF ROCHESTER / SANGAMON COUNTY

IDOT STANDARDS

000001-05	635001
280001-04	635006-02
424001-05	701501-04
442201-03	701801-03
482001-02	701901
515001-02	704001-04
542301-01	720001
602306-01	728001
602401-01	729001
602601-01	780001-01
604001-02	BLR 21-7
604036-01	BLR 22-5
604046-01	
604051-02	
606001-03	
630001-07	
630101-07	
630201-05	
630301-04	

STANDARD SYMBOLS

○	EXISTING MANHOLE	→→→→→	EXISTING SANITARY SEWER
□	EXISTING INLET	→→→→→	PROPOSED SANITARY SEWER
⊕	FIRE HYDRANT	→→→→→	EXISTING STORM SEWER
□	UTILITY POLE	→→→→→	PROPOSED STORM SEWER
⊙	STREET LIGHT	→→→→→	EXISTING GAS MAIN
⊙	TREE	→→→→→	EXISTING WATER MAIN
⊗	TREE TO BE REMOVED	→→→→→	PROPOSED WATER MAIN
⊙	PROPOSED MANHOLE	→→→→→	EXISTING TELEPHONE CABLE
⊙	PROPOSED INLET	→→→→→	SQUARE YARDS OF DRIVEWAY PAVEMENT REMOVAL
⊙	VALVE BOX TO BE ADJUSTED	→→→→→	SQUARE YARDS OF PROPOSED DRIVEWAY PAVEMENT
		→→→→→	SQUARE FEET OF SIDEWALK REMOVAL
		→→→→→	SQUARE FEET OF PROPOSED P.C.C. SIDEWALK

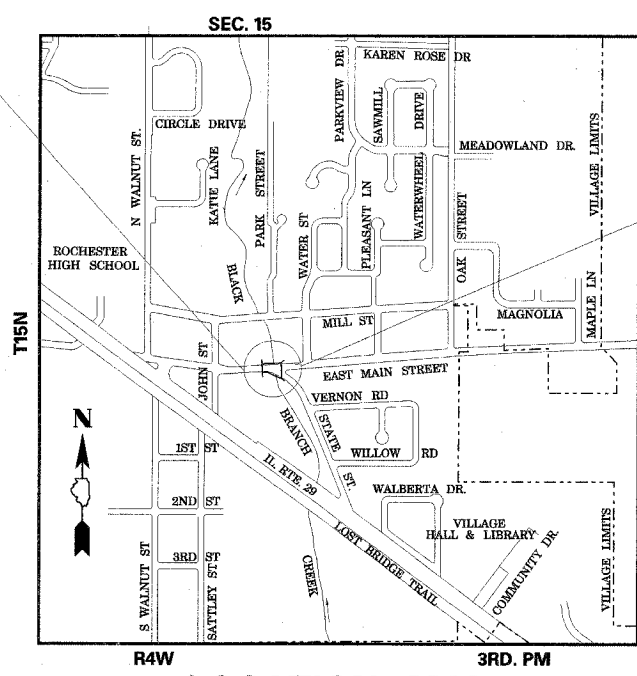


UTILITIES

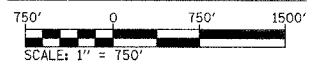
VILLAGE OF ROCHESTER - WATER DEPT. 1 COMMUNITY DRIVE ROCHESTER, IL. 62563 ATTENTION: WAYNE BECK 217-498-7062	A.T.&T. - FIBER OPTICS 529 SO. 7th STREET 3rd FLOOR, B SPRINGFIELD, IL. 62703 ATTENTION: RICH WEINGAND 217-789-8227
VILLAGE OF ROCHESTER - SEWER DEPT. 1 COMMUNITY DRIVE ROCHESTER, IL. 62563 ATTENTION: WAYNE BECK 217-498-7062	AMEREN CILCO - GAS 825 NORTH MACARTHUR SPRINGFIELD, IL. 62702 ATTENTION: ED LYNCH 217-753-5187
INSIGHT COMMUNICATIONS 711 SOUTH DIRKSEN PARKWAY SPRINGFIELD, IL. 62703 ATTENTION: ROB DAVIS 788-5898 x 636	AMEREN CILCO - ELECTRIC 825 NORTH MACARTHUR SPRINGFIELD, IL. 62702 ATTENTION: SHERRIE GARY 217-753-5187

**CALL J.U.L.I.E. PRIOR TO ANY CONSTRUCTION OR EXCAVATION
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123**

**END ROADWAY IMPROVEMENTS
STA. 1016+65.00-EAST MAIN STREET
STA. 4+00.40 STATE STREET**



LOCATION MAP



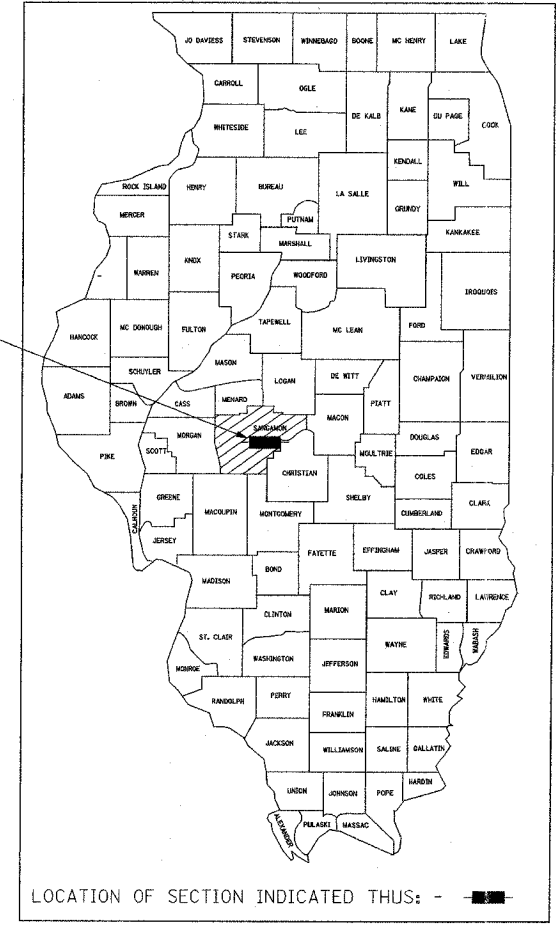
EAST MAIN STREET
DESIGN DESIGNATION: MINOR ARTERIAL (URBAN); TWS-2, DESIGN YEAR ADT 4440(28) DHV-535
DESIGN SPEED = 30 MPH
LENGTH OF IMPROVEMENT = 345.00 FEET = 0.065 MILES

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS

SIGNATURE: *[Signature]*
DATE SIGNED: 10/15/07
LICENSE EXPIRATION DATE: 11/30/09



PROJECT LOCATION



LOCATION OF SECTION INDICATED THUS: - [Black Box]

APPROVED Oct 15 2007
David R. DeWitt
PRESIDENT, VILLAGE OF ROCHESTER

APPROVED 10/16 2007
[Signature]
COUNTY ENGINEER, SANGAMON COUNTY

PASSED 11-14 2007
[Signature]
DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS

PASSED Nov 14 2007
[Signature]
DISTRICT CONSTRUCTION ENGINEER

Releasing For Bid Based on Limited Review 11-14 2007
Christine M. Reed
DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

L:\Sangamon\04-00119-03-BR\Drawings\ts\cover.dgn 10/5/2007

SUMMARY OF QUANTITIES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	28	2
STA. N/A	TO STA. N/A			
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

LOCATION OF WORK				80% FEDERAL 10% COUNTY 10% VILLAGE	100% VILLAGE
SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE	
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	X028-2A	Y060--
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	24	24	
• 20200100	EARTH EXCAVATION	CU YD	459	459	
• 20300100	CHANNEL EXCAVATION	CU YD	193	193	
• 20800150	TRENCH BACKFILL	CU YD	352	64	288
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	466	466	
• 25000200	SEEDING, CLASS 2	ACRE	0.25	0.25	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23	23	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23	23	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23	23	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.5	0.5	
25100630	EROSION CONTROL BLANKET	SQ YD	466	466	
28000300	TEMPORARY DITCH CHECKS	EACH	3	3	
28000500	INLET AND PIPE PROTECTION	EACH	3	3	
* 28100107	STONE RIPRAP, CLASS A4	SQ YD	237	237	
31101810	SUBBASE GRANULAR MATERIAL, TYPE B 12"	SQ YD	1,405	1,405	
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	22	22	
• 40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1,055	1,055	
40701876	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9 3/4"	SQ YD	1,062	1,062	
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	35	35	
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4"	SQ FT	1,327	460	867
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6"	SQ FT	446	446	
42400800	DETECTABLE WARNINGS	SQ FT	31	31	
• 44000100	PAVEMENT REMOVAL	SQ YD	1,415	1,415	
• 44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	150	150	
44000600	SIDEWALK REMOVAL	SQ FT	1,054	620	434
44200101	PAVEMENT PATCHING, TYPE IV, 8 INCH	SQ YD	51	51	
• 48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	172	172	
• 50100200	REMOVAL OF EXISTING STRUCTURES	LSUM	1	1	
• 50105220	PIPE CULVERT REMOVAL	FOOT	307	307	
50200100	STRUCTURE EXCAVATION	CU YD	351	351	
• 50300280	CONCRETE ENCASEMENT	CU YD	5		5

LOCATION OF WORK				L1C 80% FEDERAL 10% COUNTY 10% VILLAGE	07C 100% VILLAGE
SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE	
CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	X028-2A	Y060--
50800105	REINFORCEMENT BARS	POUND	42,670	42,670	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	200	200	
• 50901105	STEEL RAILING	FOOT	30	30	
• 50901505	STEEL RAILING, TYPE TP-1 (SPECIAL)	FOOT	40	40	
51500100	NAME PLATES	EACH	1	1	
54003000	CONCRETE BOX CULVERTS	CU YD	236	236	
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	21	21	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1	
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	3	3	
54248510	CONCRETE COLLAR	CU YD	0.4	0.4	
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	20	20	
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	52	52	
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	7	7	
* Δ 56103000	DUCTILE IRON WATER MAIN 6"	FOOT	295		295
* Δ 56400500	FIRE HYDRANTS TO BE REMOVED	EACH	1		1
• 60224600	RESTRICTED DEPTH MANHOLES, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
• 60225400	RESTRICTED DEPTH MANHOLES, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
• 60240301	INLETS, TYPE B, TYPE 8 GRATE	EACH	1	1	
• 60240305	INLETS, TYPE B, TYPE 10 FRAME AND GRATE	EACH	1	1	
• 60404800	FRAMES AND GRATES, TYPE 11	EACH	2	2	
60500060	REMOVING INLETS	EACH	2	2	
• 60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	301	301	
61101009	STORM SEWERS PROTECTED, CLASS A, 8"	FOOT	222	222	
Δ 63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	53	53	
* Δ 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	2	2	
63200310	GUARDRAIL REMOVAL	FOOT	79	79	
• 66900205	SPECIAL WASTE DISPOSAL	CU YD	122	122	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N/A
DATE: 10/15/2007

DRAWN BY: B.J.D.
CHECKED BY: J.M.M.

I:\SangamonCo\0402901\0-cw\shhets\SUM_QUANT.dwg
10/15/2007

SUMMARY OF QUANTITIES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	3
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		

LOCATION OF WORK				80% FEDERAL 10% COUNTY 10% VILLAGE	100% VILLAGE	
SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE		
SP	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	X028-2A	Y060--
	66900450	SPECIAL WASTE PLANS AND REPORT	LSUM	1	1	
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	
	67100100	MOBILIZATION	L SUM	1	1	
*	70103700	TRAFFIC CONTROL COMPLETE	L SUM	1	1	
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	60	60	
*	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	4	4	
* Δ	78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	480	480	
* Δ	78004280	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 24"	FOOT	29	29	
* Δ	78200410	GUARDRAIL MARKERS, TYPE A	EACH	4	4	
* Δ	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2	
*	XX000541	EXPLORATORY EXCAVATION	CU YD	40		40
* Δ	XX000836	PRESSURE TESTING AND DISINFECTION	L SUM	1		1
* Δ	XX001465	PVC SANITARY SEWER, 10"	FOOT	49		49
* Δ	XX002161	ABANDON EXISTING WATER MAIN	EACH	1		1
* Δ	XX003037	DUCTILE IRON FITTINGS AND ACCESSORIES	POUND	192		192
* Δ	XX005224	GATE VALVE AND VAULT, COMPLETE	EACH	2		2
* Δ	XX005696	SEWER CONNECTIONS TO STRUCTURES	EACH	3		3
* Δ	XX005891	WATER SERVICE RECONNECTIONS	EACH	2		2
* Δ	XX006077	GATE VALVE AND BOX 6"	EACH	1		1
* Δ	XX006253	SANITARY MANHOLE, 4'-DIAMETER	EACH	7		7
*	X0301828	ENGINEERED BARRIER	SQ YD	92	92	
* Δ	X0320591	SANITARY MANHOLES TO BE REMOVED	EACH	3		3
*	X0323381	STORM SEWERS, (WATER MAIN REQUIREMENTS) TYPE 1, 12"	FOOT	79	79	
*	X0323382	STORM SEWERS, (WATER MAIN REQUIREMENTS) TYPE 1, 15"	FOOT	74	74	
*	X0324118	GRANULAR CULVERT BACKFILL	CU YD	466	466	
*	Z0004500	BITUMINOUS DRIVEWAY PAVEMENT 8"	SQ YD	115	115	
*	Z0004800	BITUMINOUS MIXTURE FOR PATCHING	TON	4.6		4.6
*	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
*	Z0044500	PRESSURE CONNECTION 6" X 6"	EACH	1		1
*	Z0054517	ROCK FILL-FOUNDATION	TON	531	531	
* Δ	Z0056900	SANITARY SEWER 8"	FOOT	94		94

Δ SPECIALTY ITEMS

LOCATION OF WORK				L1C 80% FEDERAL 10% COUNTY 10% VILLAGE	07C 100% VILLAGE	
SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE		
SP	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	X028-2A	Y060--
* Δ	Z0057000	SANITARY SEWER 10"	FOOT	215		215

GENERAL NOTES:

- WHERE SECTION OR SUB-SECTION MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED AGENT OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 1-800-892-0123.

THE LOCATION OF ALL UTILITIES ARE BASED ON INFORMATION PROVIDED BY OTHERS AND ARE INTENDED TO BE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS CONSTRUCTION ACTIVITIES WITH THE VARIOUS UTILITY OWNERS. ALL POTENTIAL CONFLICTS SHALL BE INVESTIGATED AND REMEDIAL ACTION TAKEN PRIOR TO INTERRUPTION OF THE CONTRACTOR'S PROGRESS.

ALL UTILITIES THAT REQUIRE RELOCATION SHALL BE COMPLETED BY THE UTILITY COMPANIES.

UTILITY POLES TO BE MOVED OR SUPPORTED, IF NECESSARY, SHALL BE PERFORMED BY THE UTILITY COMPANIES.

EXTRA PRECAUTION SHALL BE TAKEN DURING CONSTRUCTION ALONG THE NORTHERN SIDE OF EAST MAIN STREET. EXISTING TELEPHONE LINE IS HIGHLY SENSITIVE.
- WHERE PROPOSED CONSTRUCTION ABUTS EXISTING APPURTENANCES, A SAW CUT SHALL BE MADE TO ACHIEVE A NEAT CONSTRUCTION JOINT. SAW CUTTING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE FOR THE ITEM BEING CONSTRUCTED.
- ALL PRIVATE ENTRANCES AND SIDE ROADS ADJACENT TO THE PROJECT SHALL BE KEPT OPEN AT ALL TIMES.
- THE FOLLOWING DENSITIES HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:
 A. GRANULAR MATERIALS 2.05 TONS / CU.YD.
 B. BITUMINOUS CONCRETE PAVEMENT 112 LBS. / SQ.YD.-IN.
 C. BITUMINOUS MATERIALS:
 -ON PAVEMENT 0.00038 TONS / SQ.YD. (0.1 GAL. / SQ.YD.)
 -INTERMEDIATE LIFTS (FOG COAT) 0.00019 TONS / SQ.YD. (0.05 GAL. / SQ.YD.)
 -ON AGGREGATE 0.0014 TONS / SQ.YD. (0.35 GAL. / SQ.YD.)
 D. RIP RAP 1.50 TONS / CU.YD.
- ANY REFERENCE WITHIN THESE PLANS TO A STANDARD SHALL BE INTERPRETED TO MEAN THE EDITION INDICATED BY THE SUB-NUMBER LISTED ON THE COVER SHEET OR THE COPY INCLUDED IN THE PLANS.
- THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.
- BEFORE ORDERING PIPE CULVERTS, PIPE DRAINS, STORM SEWER OR MANHOLES, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR EXACT LENGTHS.
- FOR WATER MAIN AND SEWER CONSTRUCTION, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, FIFTH EDITION" ADOPTED MAY 1996, SHALL GOVERN, UNLESS MODIFIED BY THE PROJECT SPECIFICATIONS.

FOR RESTORATION WORK, THE "ILLINOIS URBAN MANUAL" AS PREPARED BY THE USDA-NRCS, LATEST EDITION SHALL GOVERN.
- THE OWNER WILL PROCURE ALL CONSTRUCTION PERMITS. THE CONTRACTOR SHALL GIVE ALL NOTICES NECESSARY AND INCIDENTAL TO THE DUE AND LAWFUL PROSECUTION OF THE WORK.
- WATER MAIN SHALL HAVE A MINIMUM COVER OF 4 FEET.
- ALL WORK SHALL BE WITHIN THE VILLAGE STREET RIGHT OF WAY AND EASEMENTS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES & GENERAL NOTES

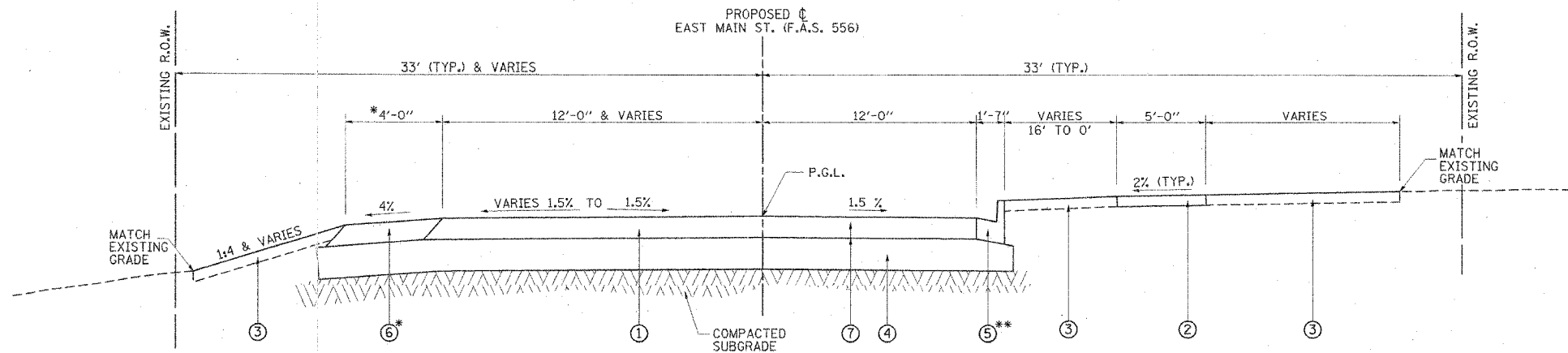
SCALE: N/A
DATE: 10/15/2007

DRAWN BY: B.J.D.
CHECKED BY: J.M.M.

L:\Sangamon\Co-040280\Draw\Sheets\SUM_QUANTL_02.dgn 10/15/2007

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	4
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STRUCTURAL DESIGN INFORMATION (EAST MAIN ST./STATE ST.)
 CLASS II STREET
 DESIGN TRAFFIC (2019): 4020 TOTAL ADT
 P.V. = 3538 S.U. = 281 M.U. = 201
 T.F. = 1.095 (80,000 LB. LOAD LIMIT)
 DESIGN STRAIN = 90 (MICROSTRAIN)
 CONSTRUCT: HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 9 3/4"
 WITH SUBBASE GRANULAR MATERIAL, TYPE B, 12"

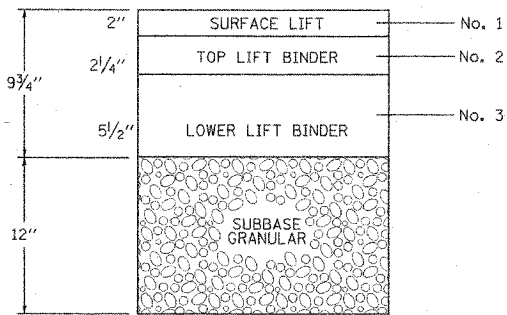


*SEE CURB DETAIL THIS SHEET

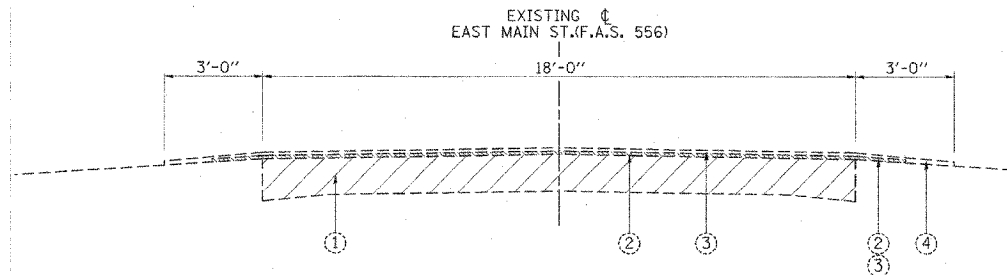
EAST MAIN ST. - PROPOSED

STA. 1014+20.00 TO STA 1016+65.00

**SEE ROADWAY PLAN & PROFILE SHEET AND INTERSECTION DETAIL SHEET FOR LIMITS OF DEPRESSED CURB



EAST MAIN ST./STATE ST. BITUMINOUS LIFT DIAGRAM

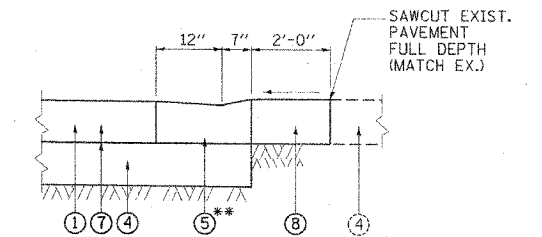


EAST MAIN ST. - EXISTING

STA. 1014+20.00 TO STA 1016+65.00

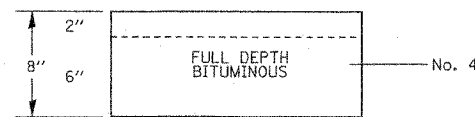
MIXTURE REQUIREMENTS

MIXTURE NUMBER:	No. 1	No. 2	No. 3	No. 4
LOCATION(S):				
MIXTURE USE(S):	BITUMINOUS CONCRETE SURFACE LIFT	TOP BINDER LIFT	LOWER BINDER LIFT	BITUMINOUS SHOULDER
AC/PG:	SBS PG 64-28	SBS PG 64-28	PG 64-22	PG 58-22
DESIGN AIR VOIDS:	4.0% @ Ndesign = 50	4.0% @ Ndesign = 50	4.0% @ Ndesign = 50	2.0% @ Ndesign = 30
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5 OR IL- 12.5	IL-19.0	IL-19.0	BAM
FRICTION AGGREGATE:	MIX "C"	N/A	N/A	N/A

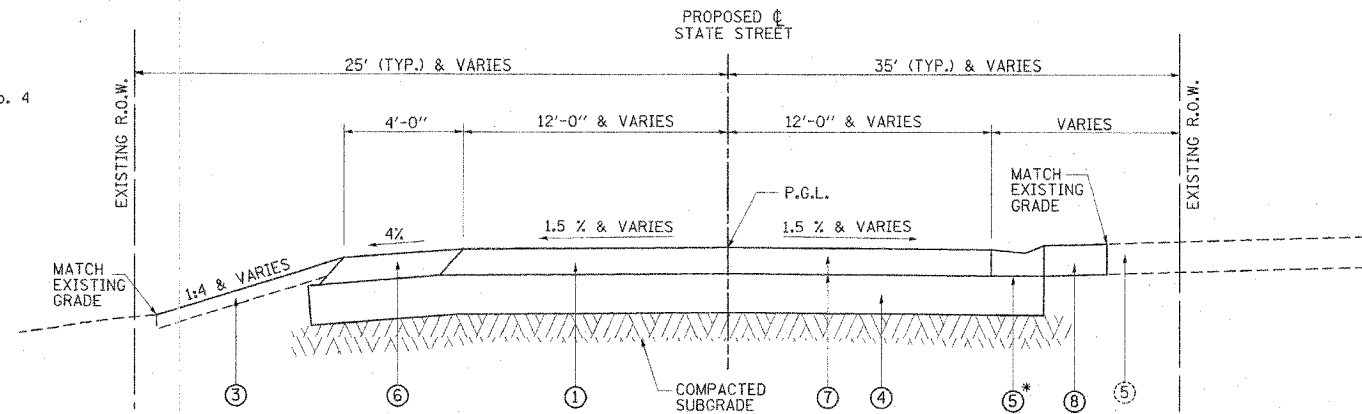


***CURB DETAIL**

STA. 1014+20.13, LT. TO STA 1014+82.36, LT.
 RADIUS RETURN AT SOUTHEAST CORNER OF INTERSECTION



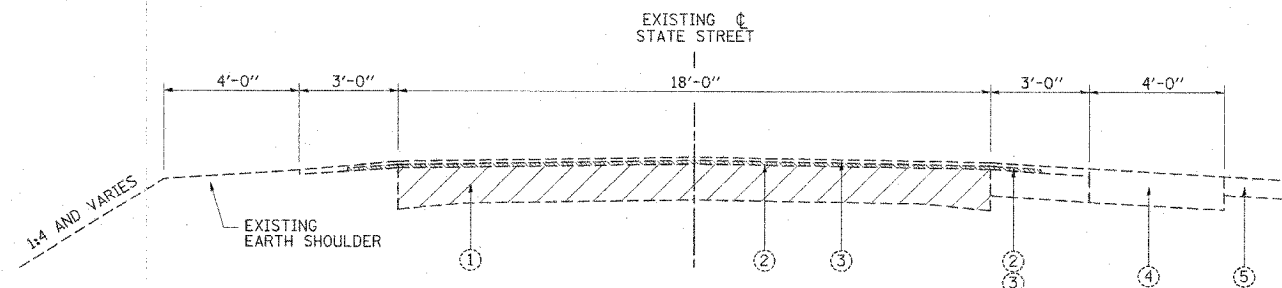
EAST MAIN ST./STATE ST. SHOULDER LIFT DIAGRAM



STATE ST. - PROPOSED

STA. 4+00.40 TO STA 4+86.06

*SEE CURB DETAIL THIS SHEET



STATE ST. - EXISTING

STA. 4+00.40 TO STA. 4+86.06

PROPOSED LEGEND

- ① PROP. HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 9 3/4"
- ② PROP. P.C.C. SIDEWALK, 4" (6" THRU DRIVEWAYS)
- ③ PROP. 4" TOPSOIL, SEEDING CLASS 2, WITH MULCH METHOD 2
- ④ PROP. SUBBASE GRANULAR MATERIAL, TYPE B, 12"
- ⑤ PROP. COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- ⑥ PROP. HOT-MIX ASPHALT SHOULDERS, 8"
- ⑦ PROP. BITUMINOUS MATERIALS (PRIME COAT)- EACH LIFT
- ⑧ PROP. BITUMINOUS PAVEMENT PATCHING, 8"

EXISTING LEGEND

- ① EXIST. 18' WIDE P.C.C. PAVEMENT
- ② EXIST. 1" BITUMINOUS CONCRETE BINDER COURSE
- ③ EXIST. 1" BITUMINOUS CONCRETE SURFACE COURSE, CL. I
- ④ EXIST. BITUMINOUS SHOULDER/PAVEMENT
- ⑤ EXIST. BITUMINOUS DRIVEWAY PAVEMENT (MARATHON STATION)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

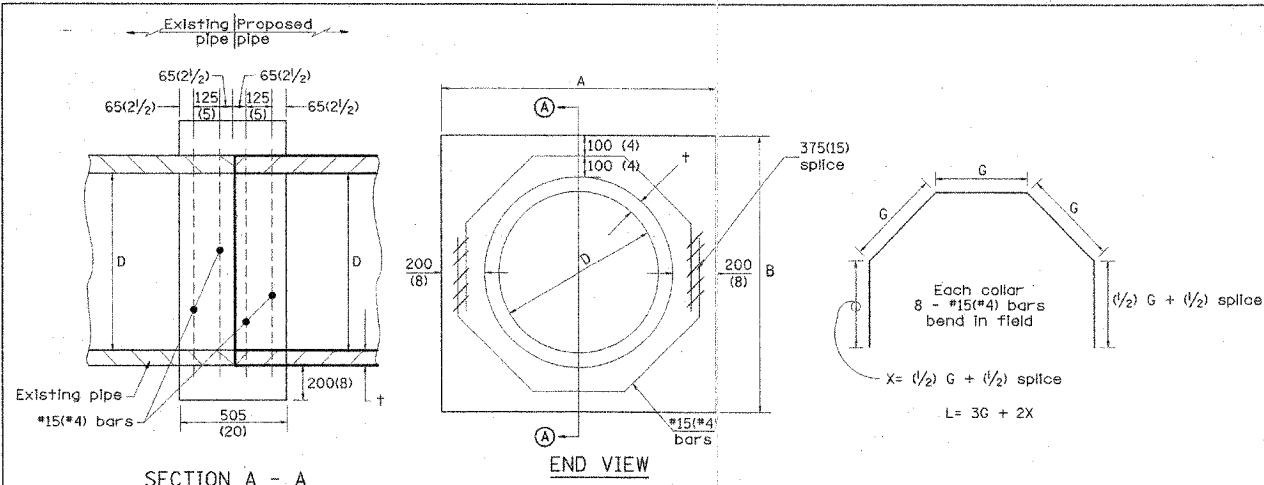
TYPICAL SECTIONS EXISTING/PROPOSED

SCALE: NONE DRAWN BY: GLD
 DATE: 10/15/2007 CHECKED BY: JMM

TYPICAL SECTIONS: EXISTING / PROPOSED

DATE 11/1/2007
 FILE NAME L:\Sangamon\0400119\Draw\Sheet\TypicalSections_road.dgn
 PLOT SCALE 1/8"=1'-0"
 REFERENCE #REF#

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	5
STA. N/A		TO STA. N/A		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				



SECTION A - A

END VIEW

D		t		A		B		CL. SI CONC.		Reinforcement Bars		Weight kg (lb)
m (in)	m (in)	m (ft)	m (ft)	m ³ (cu. yd)	m (in)	m (in)	m (ft)	m ³ (cu. yd)	m (in)	m (in)	m (ft)	
300 (12)	51 (2.00)	0.814 (2.67)	0.814 (2.67)	0.270 (0.4)	253 (9 3/8)	317 (12 1/2)	1.393 (4.57)	11 (24)	290 (11 3/8)	335 (13 1/8)	1.541 (5.05)	12 (27)
375 (15)	57 (2.25)	0.902 (2.96)	0.902 (2.96)	0.315 (0.4)	290 (11 3/8)	335 (13 1/8)	1.541 (5.05)	12 (27)	327 (12 1/2)	354 (13 7/8)	1.689 (5.54)	14 (30)

GENERAL NOTES

- THE COLLAR SHALL BE CONSTRUCTED ENTIRELY OF CLASS SI CONCRETE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 503 OF THE STANDARD SPECIFICATIONS. REINFORCEMENT BARS SHALL CONFORM TO SECTION 508.

PIPE CULVERT EXTENSION COLLAR

EARTHWORK SCHEDULE

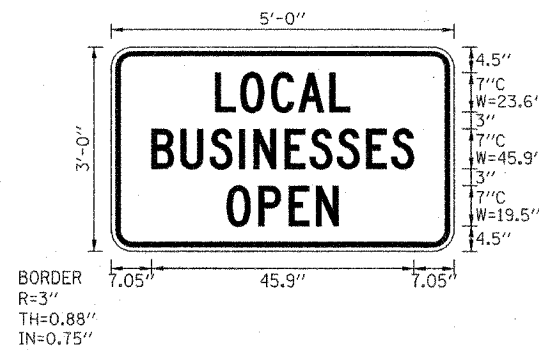
LOCATION	EARTH EXCAVATION (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE** EXCESS (+) SHORTAGE (-)
EAST MAIN ST.			
1014+20.00 - 1014+50.00	41.6	1.1	40.5
1014+50.00 - 1014+57.39	11.1	0.1	11.0
1014+57.39 - 1015+00.00	131.5	1.4	130.1
1015+00.00 - 1015+50.00	168.3	1.3	167.0
1015+50.00 - 1016+00.00	81.9	6.7	75.3
1016+00.00 - 1016+42.92	53.0	7.4	45.6
1016+42.92 - 1016+50.00	10.2	0.4	9.8
1016+50.00 - 1016+65.00	24.3	0.2	24.1
STATE ST.			
4+00.40 - 4+25.00	17.5	0.8	16.7
STRUCTURE EXCAVATION (SEPARATE PAY ITEM)			
	350.1	0.0	350.1
SUBTRACT FOR SPECIAL WASTE DISPOSAL (MISCELLANEOUS LOCATIONS)			
	-61.0	0.0	-61.0
GRAND TOTAL	478	19	459

REMOVAL SCHEDULE

STATION / LOCATION	GUARDRAIL REMOVAL (FOOT)	PIPE CULVERT REMOVAL (FOOT)	REMOVING INLETS (EACH)	RELOCATE SIGN PANEL ASSEMBLY TYPE A (EACH)
EAST MAIN ST.				
1015+02.40 - 1015+41.60 RT	39.2			
1015+86.77 - 1016+24.54 LT	39.3			
1014+65.52 - 1014+89.34 LT		23.9		
1014+89.34 - 1015+22.75 LT, RT		56.8		
1014+23.54 - 1015+41.75 RT		118.2		
1015+13.60 - 1015+49.20 RT		38.0		
1015+83.78 - 1016+41.35 RT		57.4		
1016+34.94 - 1016+47.46 LT		12.8		
1014+65.52 - 23.10' LT			1	
1015+13.60 - 25.16' RT			1	
1014+74.90 - 32.60' LT				1
1015+20.42 - 41.09' LT				1
1015+23.95 - 21.71' LT				1
1015+71.19 - 17.90' LT				1
TOTALS	79	307	2	4

LANDSCAPING SCHEDULE

STATION / LOCATION	TOPSOIL FURNISH AND PLACE (SQ YD)	SEEDING CLASS 2 (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	AGRICULTURAL GROUND LIMESTONE (TON)	EROSION CONTROL BLANKET (SQ YD)
EAST MAIN ST.							
1012+79.26 TO 1014+20.13 RT	160.0	0.08	7	7	7	0.2	160.0
1014+84.75 TO 1016+41.03 RT	140.9	0.08	7	7	7	0.2	140.9
1015+78.90 TO 1016+36.96 LT	106.8	0.06	5	5	5	0.1	106.8
STATE ST.							
4+00.40 TO 4+62.22 LT	58.4	0.03	3	3	3	0.1	58.4
TOTALS	466	0.25	23	23	23	0.5	466



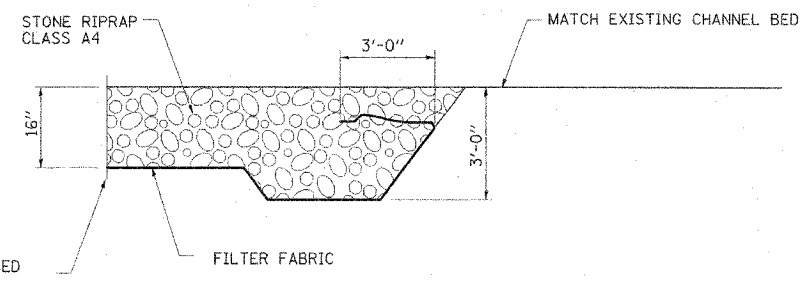
SIGN NUMBER	LOCAL BUSINESS OPEN
WIDTH x HIGHT.	5'-0" x 3'-0"
BORDER WIDTH	0.88"
CORNER RADIUS	3"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Orange
LEGEND/BORDER	TYPE: Reflective COLOR: Black/Black

Panel Style: construction_guide.ssi
Dimensions are in inches.tenths

Letter locations are paneledge to lower left corner

LETTER POSITIONS (X)					LENGTH	SERIES/SIZE				
L	O	C	A	L	23.6	C 2000				
18.2	22.6	28	32.8	38.2						
B	U	S	I	N	45.9	C 2000				
7	12.2	17.3	22.4	24.9	30.4	34.8	39.5	44.6	49	
O	P	E	N		19.5	C 2000				
20.2	25.8	31.1	35.8							

SPECIAL SIGN PANEL DETAIL



CONSTRUCTION SHALL BE IN ACCORDANCE WITH SECTION 281 AND 282 OF THE STANDARD SPECIFICATIONS EXCEPT THAT NO BEDDING MATERIAL SHALL BE USED

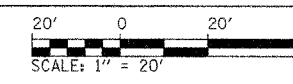
SEE ROADWAY PLAN AND PROFILE SHEET FOR LOCATIONS

CHANNEL RIPRAP TYPICAL SECTION

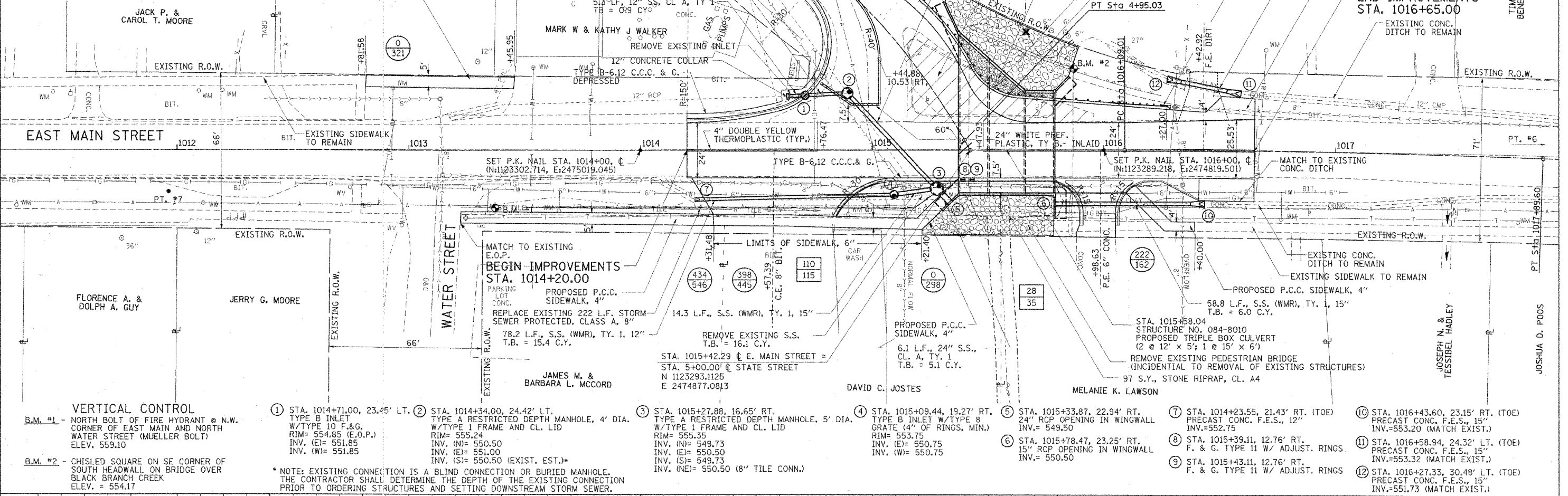
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p>QUANTITY SCHEDULES AND CONSTRUCTION DETAILS</p> <p>SCALE: NONE DRAWN BY: GLD DATE: 10/15/07 CHECKED BY: JMM</p>

PROPOSED C MAIN ST. CURVE-1 DATA
 PI STA. = 1016+99.31
 $\Delta = 2^\circ 04' 10''$ (RT)
 $D = 1^\circ 08' 45''$
 $R = 5,000.00'$
 $T = 94.44'$
 $L = 180.59'$
 $E = 0.82'$
 P.C. STA = 1016+09.01
 (N:1123288.6099 E:2474810.5114)
 P.T. STA = 1017+89.60
 (N:1123279.6795 E:2474630.1548)

PROPOSED C STATE ST. CURVE-2 DATA
 PI STA. = 4+43.40
 $\Delta = 20^\circ 16' 09''$ (RT)
 $D = 19^\circ 25' 20''$
 $R = 295.00'$
 $T = 52.73'$
 $L = 104.36'$
 $E = 4.68'$
 P.R.C. STA = 3+90.67
 (N:1123214.3148 E:2474951.9721)
 P.T. STA = 4+95.03
 (N:1123288.9890 E:2474879.8489)



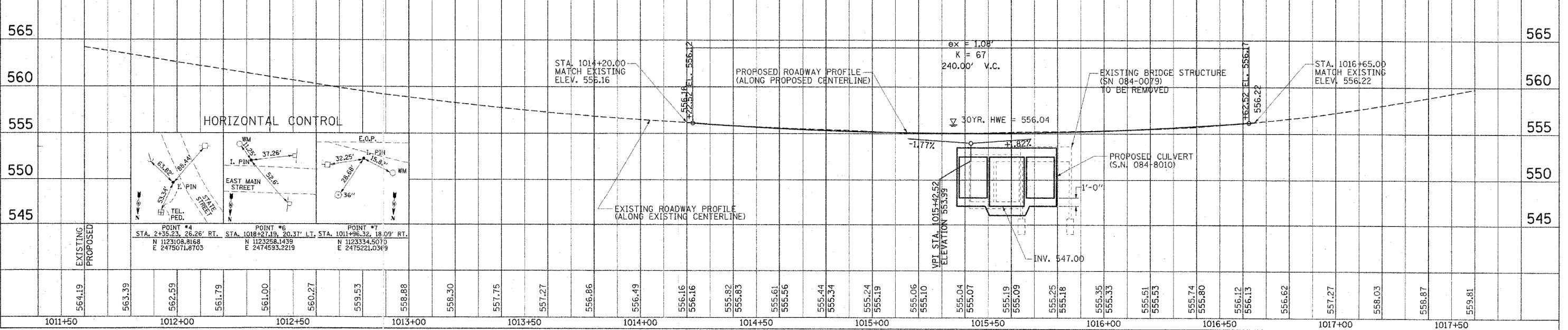
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	6
STA. 1014+20.00		TO STA. 1016+65.00		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				



- VERTICAL CONTROL**
- B.M. #1 - NORTH BOLT OF FIRE HYDRANT @ N.W. CORNER OF EAST MAIN AND NORTH WATER STREET (MUELLER BOLT) ELEV. 559.10
 - B.M. #2 - CHISLED SQUARE ON SE CORNER OF SOUTH HEADWALL ON BRIDGE OVER BLACK BRANCH CREEK ELEV. = 554.17

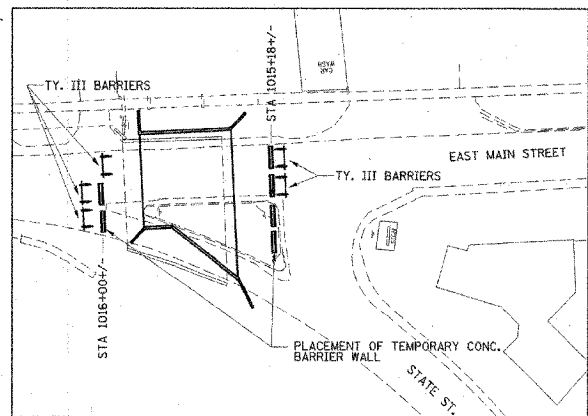
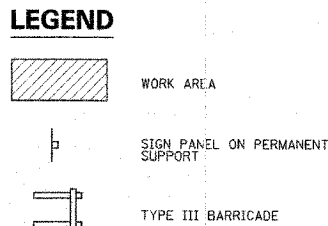
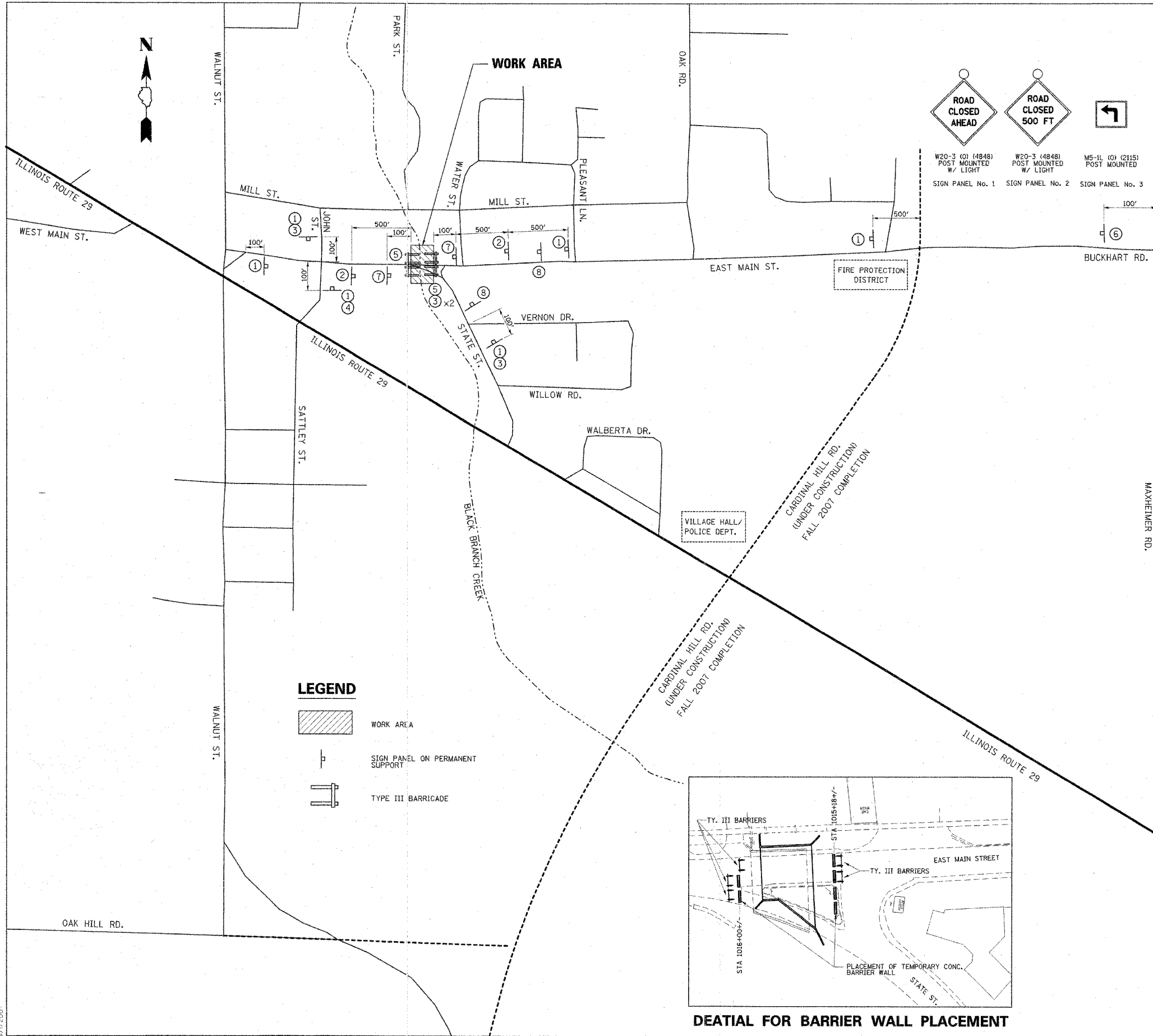
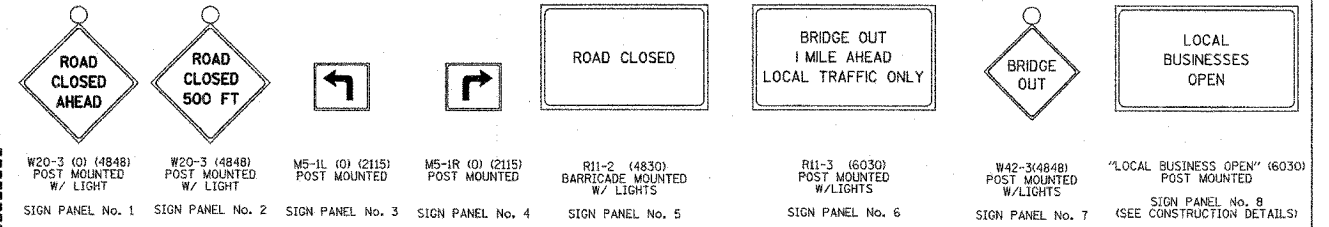
- ① STA. 1014+71.00, 23.45' LT. TYPE B INLET W/TYPE 10 F.&G. RIM= 554.85 (E.O.P.) INV. (E)= 551.85 INV. (W)= 551.85
- ② STA. 1014+34.00, 24.42' LT. TYPE A RESTRICTED DEPTH MANHOLE, 4' DIA. W/TYPE 1 FRAME AND CL. LID RIM= 555.24 INV. (N)= 550.50 INV. (E)= 551.00 INV. (S)= 550.50 (EXIST. EST.)
- ③ STA. 1015+27.88, 16.65' RT. TYPE A RESTRICTED DEPTH MANHOLE, 5' DIA. W/TYPE 1 FRAME AND CL. LID RIM= 555.35 INV. (N)= 549.73 INV. (E)= 550.50 INV. (S)= 549.73 INV. (NE)= 550.50 (8" TILE CONN.)
- ④ STA. 1015+09.44, 19.27' RT. TYPE B INLET W/TYPE 8 GRATE (4" OF RINGS, MIN.) RIM= 553.75 INV. (E)= 550.75 INV. (W)= 550.75
- ⑤ STA. 1015+33.87, 22.94' RT. 24" RCP OPENING IN WINGWALL INV.= 549.50
- ⑥ STA. 1015+78.47, 23.25' RT. 15" RCP OPENING IN WINGWALL INV.= 550.50
- ⑦ STA. 1014+23.55, 21.43' RT. (TOE) PRECAST CONC. F.E.S., 12" INV.=552.75
- ⑧ STA. 1015+39.11, 12.76' RT. F. & G. TYPE 11 W/ ADJUST. RINGS
- ⑨ STA. 1015+43.11, 12.76' RT. F. & G. TYPE 11 W/ ADJUST. RINGS
- ⑩ STA. 1016+43.60, 23.15' RT. (TOE) PRECAST CONC. F.E.S., 15" INV.=553.20 (MATCH EXIST.)
- ⑪ STA. 1016+58.94, 24.32' LT. (TOE) PRECAST CONC. F.E.S., 15" INV.=553.32 (MATCH EXIST.)
- ⑫ STA. 1016+27.33, 30.48' LT. (TOE) PRECAST CONC. F.E.S., 15" INV.=551.73 (MATCH EXIST.)

* NOTE: EXISTING CONNECTION IS A BLIND CONNECTION OR BURIED MANHOLE. THE CONTRACTOR SHALL DETERMINE THE DEPTH OF THE EXISTING CONNECTION PRIOR TO ORDERING STRUCTURES AND SETTING DOWNSTREAM STORM SEWER.



ROADWAY PLAN & PROFILE EAST MAIN ST. STA. 1014+20.00 TO STA. 1016+65.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00119-03-BR	SANGAMON	26	7
STA.	N/A	TO STA.	N/A	
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				



MAINTENANCE OF TRAFFIC GENERAL NOTES

- ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007. THE DETAILS IN THESE PLANS AND THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- ALL MAINTENANCE OF TRAFFIC SIGNS SHALL BE PROVIDED, PLACED AND MAINTAINED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL PROCEED WITH THE WORK IN AN EXPEDITIOUS MANNER TO MINIMIZE THE TIME THAT THE CLOSURE IS IN EFFECT.
- THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST TWO WEEKS PRIOR TO THE DAY THAT THE ROAD IS TO BE CLOSED. THE ENGINEER WILL COORDINATE WITH THE VILLAGE AND ANY APPROPRIATE LOCAL AGENCIES.
- THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER THE NAMES AND PHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE AND HIS REPRESENTATIVES RESPONSIBLE FOR THE DETOUR SIGNING AND MAINTENANCE OF TRAFFIC PRIOR TO THE START OF WORK.
- LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH THE ROAD CLOSURE PLAN AND INSPECTED AND APPROVED BY THE ENGINEER.
- ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE ROAD CLOSURE IS IN EFFECT SHALL BE REMOVED OR COMPLETELY COVERED BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL COMPLETE.
- ALL ROAD CLOSURE SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE NOTED.
- ALL ROAD CLOSURE SIGNING, EXCEPT REGULATORY SIGNS, SHALL HAVE BLACK LEGEDS ON FLUORESCENT ORANGE BACKGROUNDS AND STANDARD BLACK BORDERS. ALL ROAD CLOSURE SIGNS SHALL BE NEW OR LIKE NEW CONDITION.
- AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THE CLOSURE SIGNAGE SHALL MEET THE REQUIREMENTS FOR TYPE A-LOW INTENSITY FLASHING LIGHTS PER ARTICLE 1106.02 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE VILLAGE OF ROCHESTER SHALL BE USED.
- THE TYPE III BARRICADES USED AT POINTS OF CLOSURE TO THRU TRAFFIC ONLY SHALL NOT EXCEED 8 FEET IN WIDTH FOR A SINGLE APPROACH LANE. ALL BARRICADES AT THESE LOCATIONS SHALL HAVE REFLECTORIZED STRIPING ON BOTH SIDES OF THE BARRICADE.
- THE "ROAD CLOSED" SIGN ON A TYPE III BARRICADE SHALL BE MOUNTED ACCORDING TO STANDARD 720001. ALL TYPE III BARRICADES SHALL HAVE TWO AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS.
- CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES DURING NON-WORKING HOURS. IN ANY EVENT, ARTICLE 701 OF THE STANDARD SPECIFICATIONS SHALL APPLY.
- THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO WEEKS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE ENGINEER WILL COORDINATE WITH THE VILLAGE AND THE APPROPRIATE LOCAL AGENCIES.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAY AND POINTS OF ACCESS DURING ALL PERIODS OF CONSTRUCTION. CLOSURE OF A DRIVEWAY NECESSARY TO COMPLETE THE CONTRACT WORK SHALL BE COORDINATED IN ADVANCE WITH THE AFFECTED PROPERTY OWNER.
- FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF 8 SANDBAGS PER BARRICADE.

REVISIONS

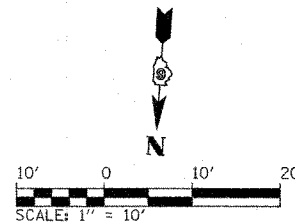
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**ROAD CLOSURE PLAN
 EAST MAIN STREET
 BRIDGE REPLACEMENT**

SCALE: N.T.S. DRAWN BY: J.M.M.
 DATE: 10/15/2007 CHECKED BY: J.M.M.

L:\Sangamon\EC\1040298\Draw\sheet1a\VIOT01_Amos.dgn 11/1/2007

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-0019-03-BR	SANGAMON	26	8
STA. 1014+20.00 TO STA. 1016+65.00				
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				



- RADIUS CONTROL POINTS**
- (A) STA. 1014+20.00, 12.00' LT.
 - (B) STA. 1014+60.00, 16.93' LT.
 - (C) STA. 4+00.40, 12.00' RT. (STATE ST.)
 - (D) STA. 4+33.34, 14.88 LT. (STATE ST.)
 - (E) STA. 1015+41.13, 29.43 LT.
 - (F) STA. 1015+67.65, 12.00 LT.
-
- (1) STA. 4+15.25, ϕ (STATE ST.)
 - (2) STA. 1015+03.07, 38.67' LT.
 - (3) STA. 1015+03.07, 12.00' RT.
 - (4) STA. 1015+42.46, 35.79' LT.
 - (5) STA. 1015+62.73, 22.47' LT.
 - (6) STA. 1016+43.90, 16.00' LT.

PROPOSED ϕ MAIN ST. CURVE-1 DATA PI STA. = 1016+99.31 Δ = 2° 04' 10" (RT) D = 1° 08' 45" R = 5,000.00' T = 94.44' L = 180.59' E = 0.82' P.C. STA = 1016+09.01 P.T. STA = 1017+89.60	PROPOSED ϕ STATE ST. CURVE-2 DATA PI STA. = 4+43.40 Δ = 20° 16' 09" (RT) D = 19° 25' 20" R = 295.00' T = 52.73' L = 104.36' E = 4.68' P.C. STA = 3+90.67 P.T. STA = 4+95.03
---	---

PROP. 2-CC
R=30'
R=150'
O/S=3.94'

BEGIN ROADWAY IMPROVEMENTS
STA. 1014+20.00

BEGIN ROADWAY IMPROVEMENTS
STA. 4+00.40

END ROADWAY IMPROVEMENTS
STA. 1016+65.00

LEGEND



L:\SangamonCo\040229d\Draw_Sheets\Inter-section_detail.dgn 11/7/2007

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

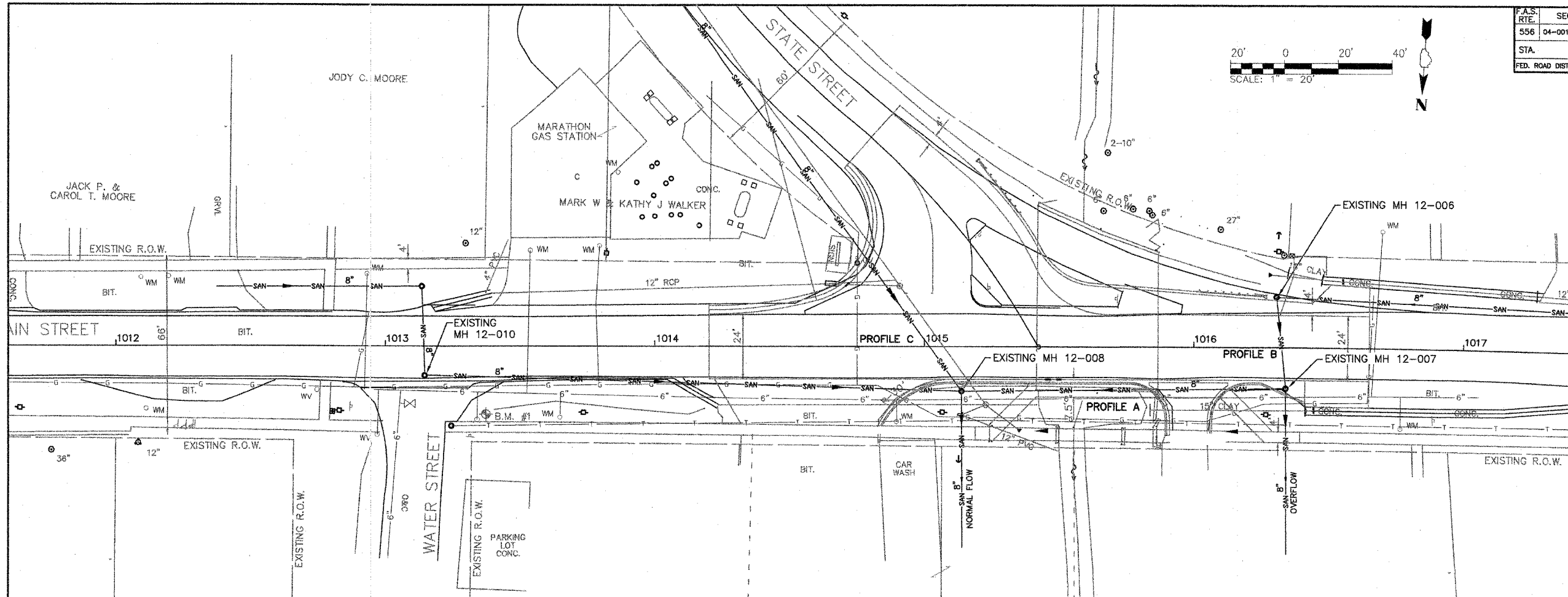
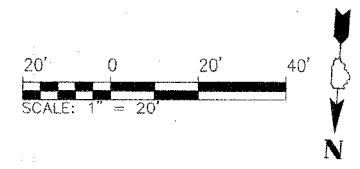
INTERSECTION DETAIL
EAST MAIN ST. / STATE ST.

SCALE: 1" = 10'
DATE: 10/15/07

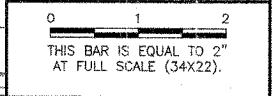
DRAWN BY: GLD
CHECKED BY: JMM

INTERSECTION DETAIL

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	9
STA.		TO STA.		
FED. ROAD DIST. NO.5 ILLINOIS FED. AID PROJECT				

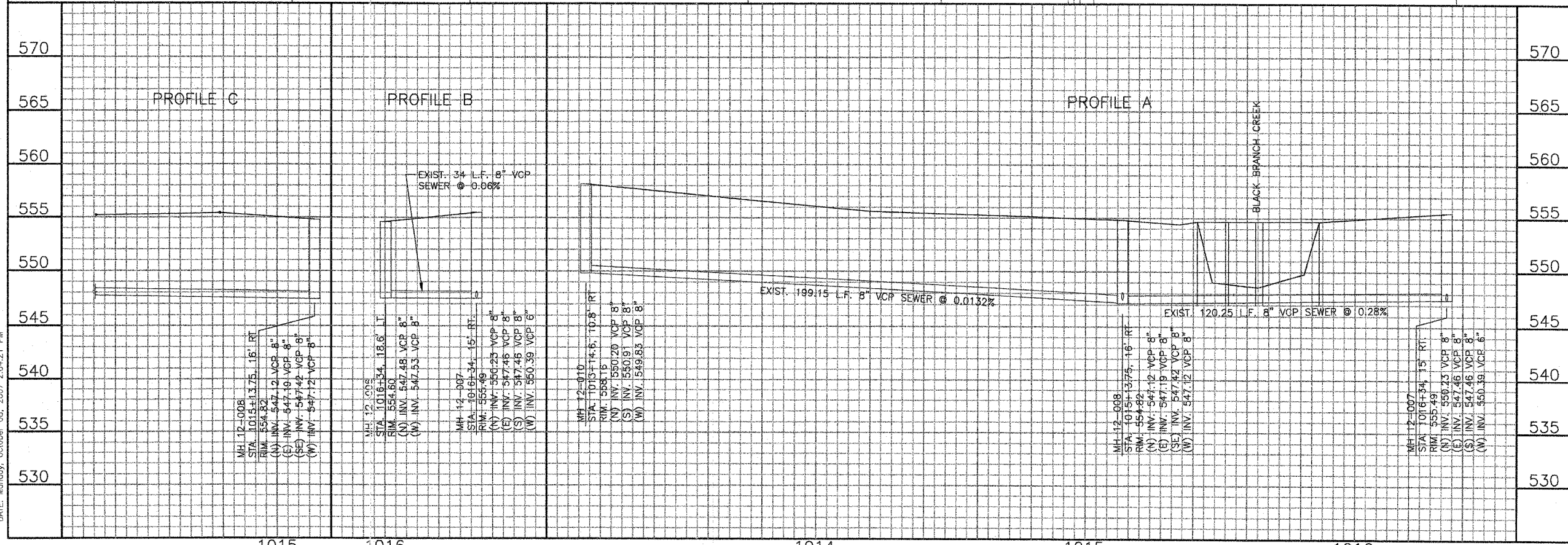


REVISIONS		
NUMBER	BY	DATE



**VILLAGE OF ROCHESTER
ROCHESTER, ILLINOIS**

**WATERMAIN & SANITARY SEWER REPLACEMENT
EAST MAIN STREET BRIDGE
EAST MAIN STREET SEWER
EXISTING PLAN AND PROFILE A, B & C**



© Copyright CMT, Inc.

CMT
 CRAIG MORRIS & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 894-000618

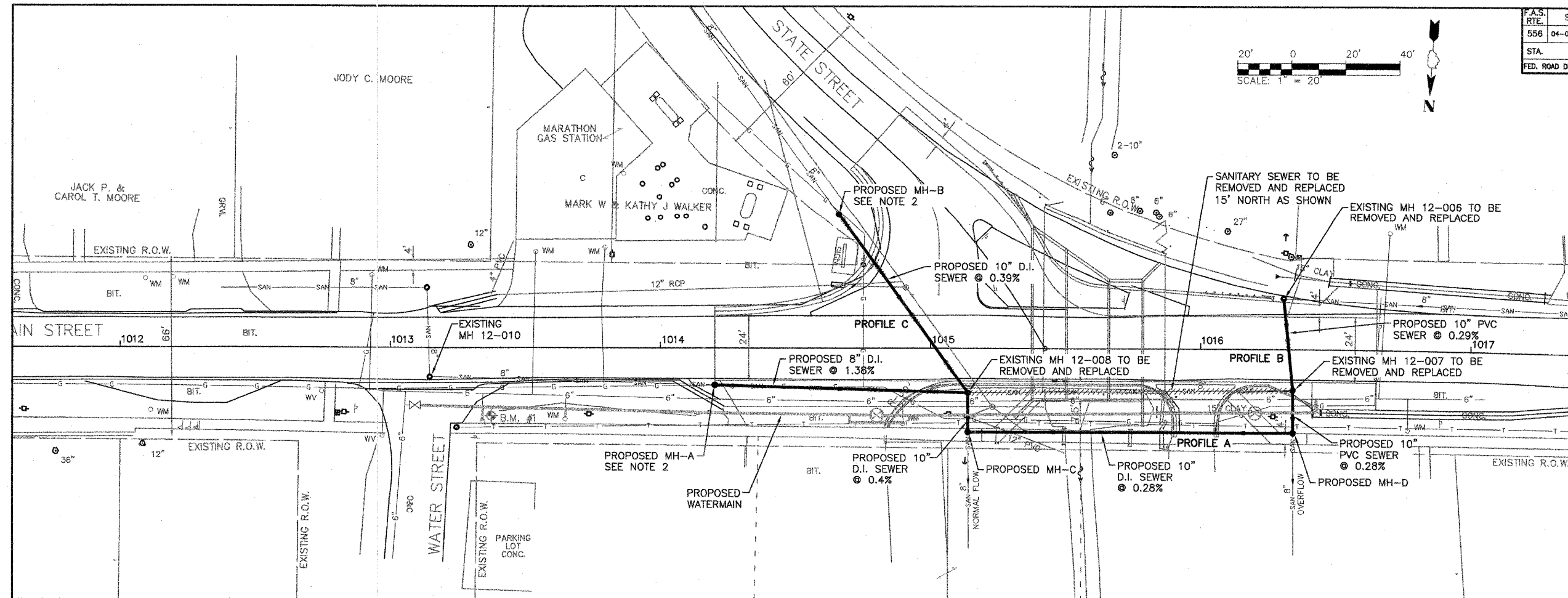
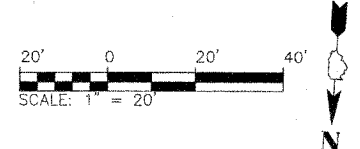
DESIGN BY: SUB
 DRAWN BY: RCM
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]
 DATE: OCTOBER 15, 2007
 JOB No: 07044-04-00

PROFESSIONAL ENGINEER - ILLINOIS
 SIGNATURE: [Signature]
 EXPIRES: 11/30/07

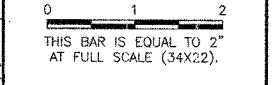
SHEET 1 OF 6 SHEETS

PATH: L:\SangamonCo\0402901\Draw\Sheets
 FILE: C:\SWR_Plan-PROJAN-Exsit.dwg
 DRAWN BY: Shannon Brown
 DATE: Monday, October 08, 2007 2:04:21 PM

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
558	04-00119-03-BR	SANGAMON	26	10
STA. TO STA.		FED. ROAD DIST. NO.5 ILLINOIS FED. AID PROJECT		



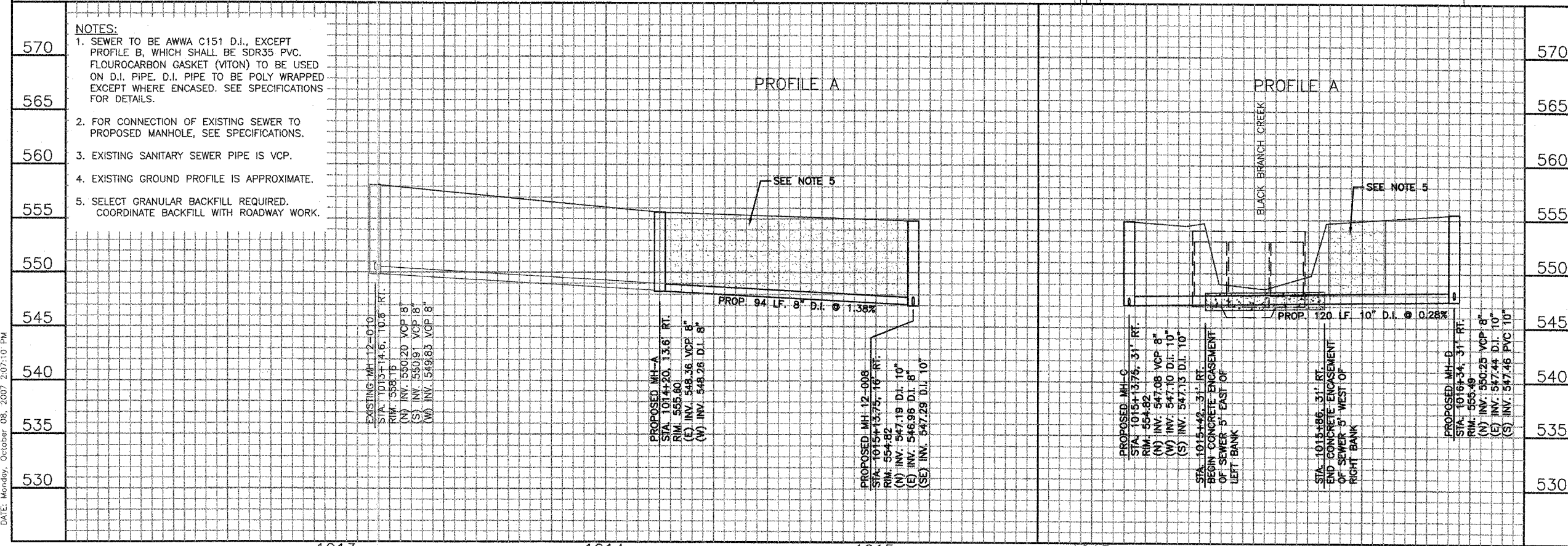
REVISIONS		
NUMBER	BY	DATE



**VILLAGE OF ROCHESTER
ROCHESTER, ILLINOIS**

**WATERMAIN & SANITARY SEWER REPLACEMENT
EAST MAIN STREET BRIDGE
EAST MAIN STREET SEWER
PROPOSED PLAN AND PROFILE A**

- NOTES:**
- SEWER TO BE AWWA C151 D.I., EXCEPT PROFILE B, WHICH SHALL BE SDR35 PVC. FLOUROCARBON GASKET (VITON) TO BE USED ON D.I. PIPE. D.I. PIPE TO BE POLY WRAPPED EXCEPT WHERE ENCASED. SEE SPECIFICATIONS FOR DETAILS.
 - FOR CONNECTION OF EXISTING SEWER TO PROPOSED MANHOLE, SEE SPECIFICATIONS.
 - EXISTING SANITARY SEWER PIPE IS VCP.
 - EXISTING GROUND PROFILE IS APPROXIMATE.
 - SELECT GRANULAR BACKFILL REQUIRED. COORDINATE BACKFILL WITH ROADWAY WORK.



PATH: I:\Sprojects\CA\0402001\Draw\Sheets
 FILE: C:\SWP_PLAN_P01_A_Prop.dwg
 UPDATE BY: Shannon Brady
 DATE: Monday, October 08, 2007 2:07:10 PM

© Copyright CRT, Inc.

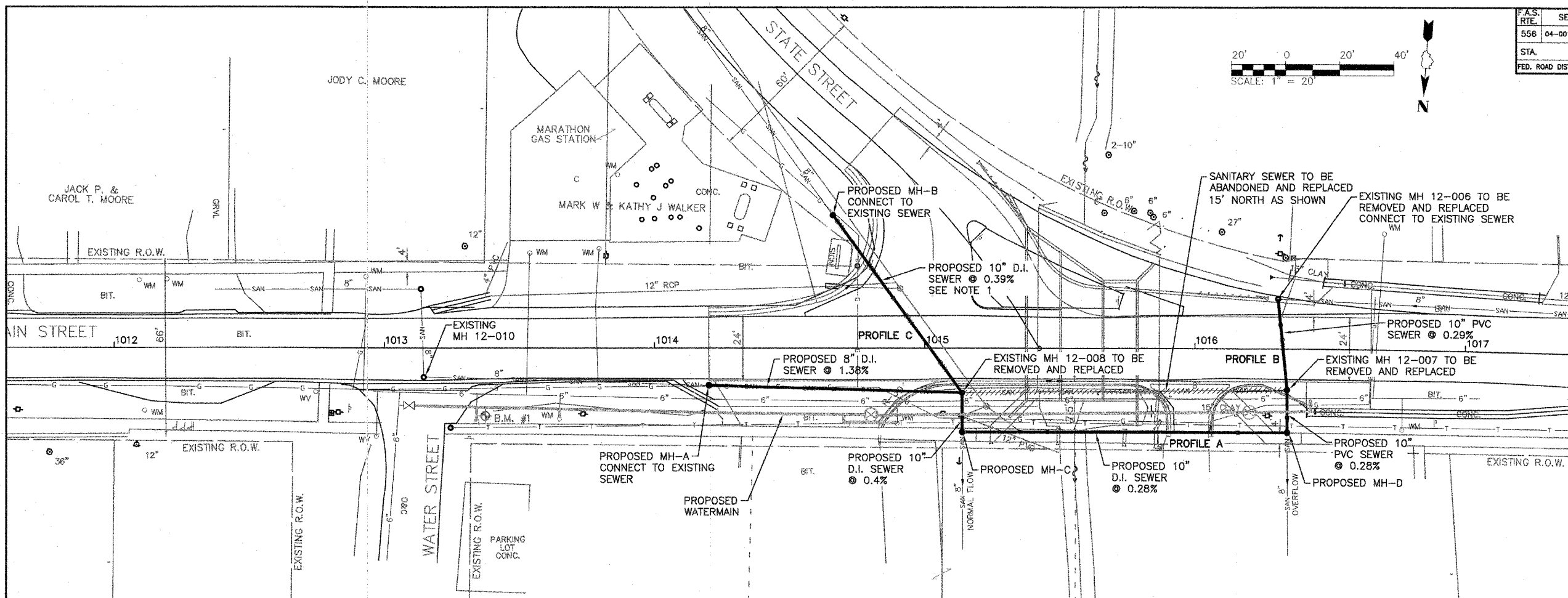
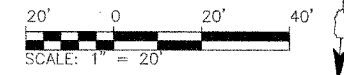
GMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 84-000615

Professional Engineer & Surveyor
TIMOTHY F. SHANNON
#063856

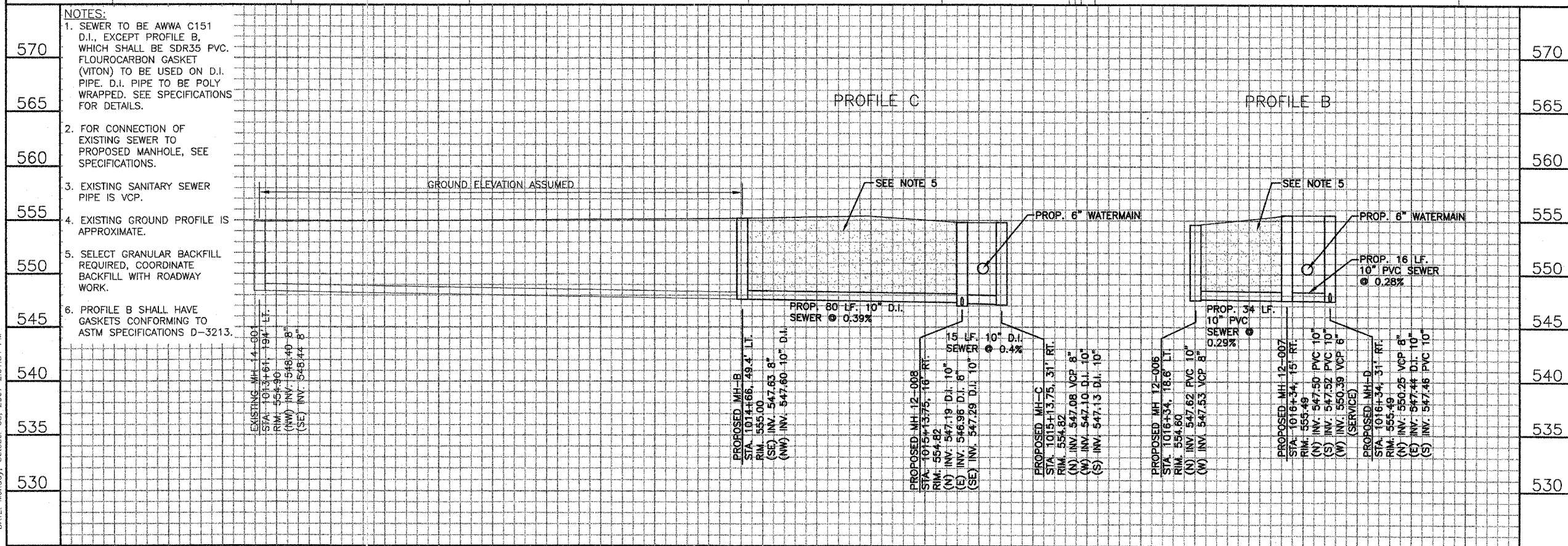
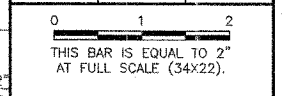
10/08/07
Expires
11/30/07

DESIGN BY:	SJB
DRAWN BY:	RDM
CHECKED BY:	SJB
APPROVED BY:	TSB
DATE:	OCTOBER 15, 2007
JOB No:	07044-04-00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	11
STA.		TO STA.		
FED. ROAD DIST. NO.5		ILLINOIS FED. AID PROJECT		



REVISIONS		
NUMBER	BY	DATE



570	<p>NOTES:</p> <ol style="list-style-type: none"> SEWER TO BE AWWA C151 D.I., EXCEPT PROFILE B, WHICH SHALL BE SDR35 PVC. FLOUROCARBON GASKET (VITON) TO BE USED ON D.I. PIPE. D.I. PIPE TO BE POLY WRAPPED. SEE SPECIFICATIONS FOR DETAILS. FOR CONNECTION OF EXISTING SEWER TO PROPOSED MANHOLE, SEE SPECIFICATIONS. EXISTING SANITARY SEWER PIPE IS VCP. EXISTING GROUND PROFILE IS APPROXIMATE. SELECT GRANULAR BACKFILL REQUIRED, COORDINATE BACKFILL WITH ROADWAY WORK. PROFILE B SHALL HAVE GASKETS CONFORMING TO ASTM SPECIFICATIONS D-3213. 	570
565		565
560		560
555		555
550		550
545		545

VILLAGE OF ROCHESTER
ROCHESTER, ILLINOIS
WATERMAIN & SANITARY SEWER REPLACEMENT
EAST MAIN STREET BRIDGE
EAST MAIN STREET SEWER
PROPOSED PLAN AND PROFILE B & C

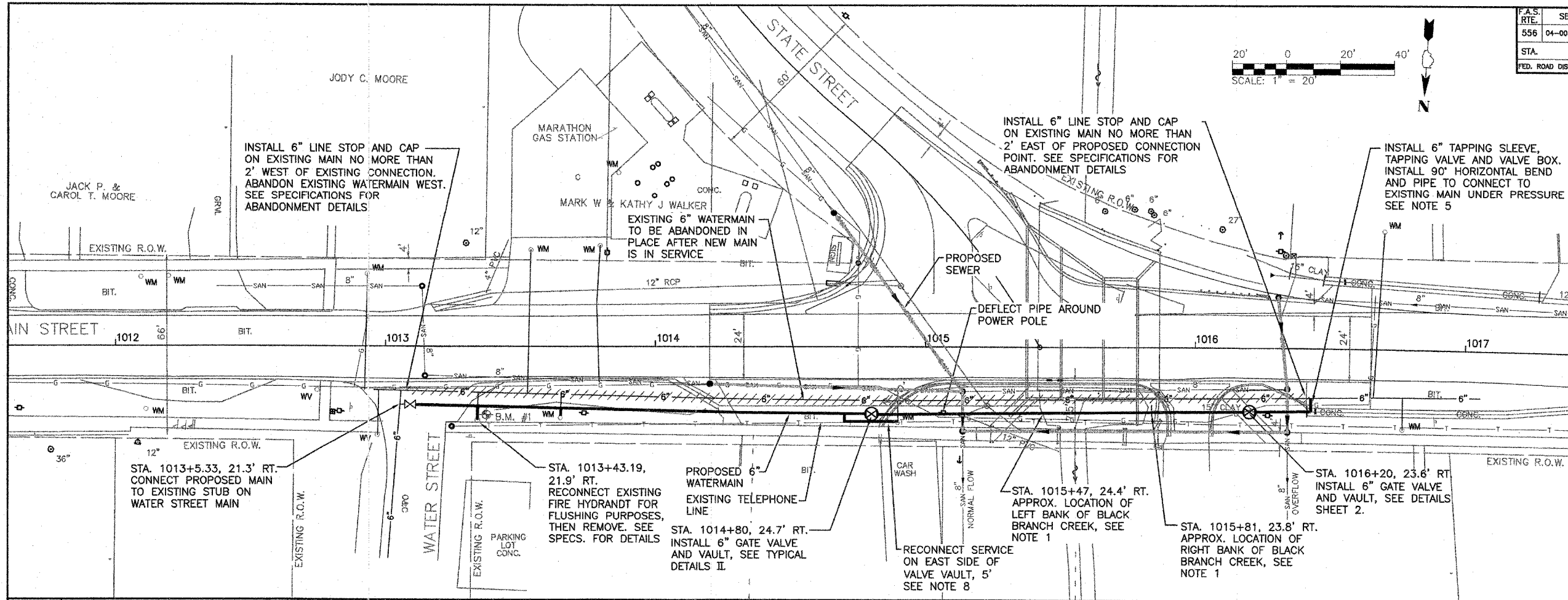
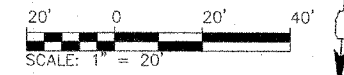
GMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 94-000519

DESIGN BY: SJB
 DRAWN BY: RDM
 CHECKED BY: SJB
 APPROVED BY: SJB
 DATE: OCTOBER 15, 2007
 JOB No: 07044-04-00

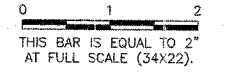
SHEET 3 OF 6 SHEETS

PATH: L:\Sangamon\0402901\Draw\Sheets
 FILE: C-SWR_PLAN-PRO_B-C-Prop.dwg
 UPDATE BY: Shannon Brady
 DATE: Monday, October 08, 2007 2:01:54 PM

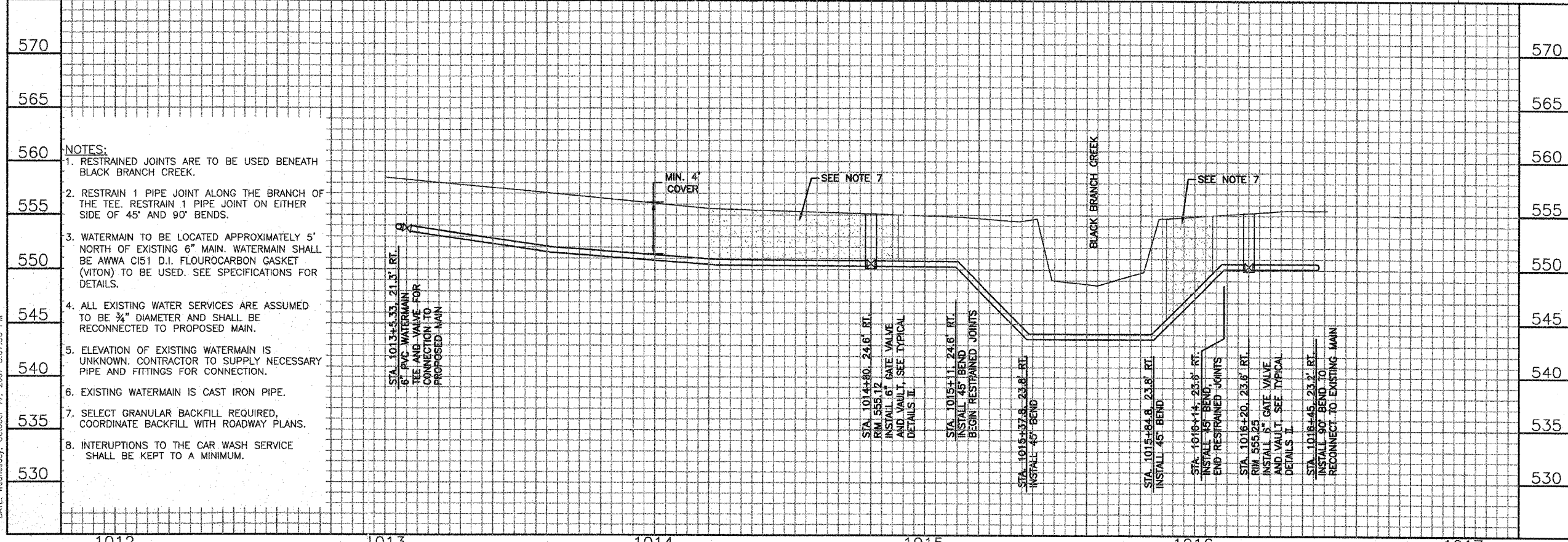
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	25	12
STA.		TO STA.		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AD. PROJECT				



REVISIONS		
NUMBER	BY	DATE



VILLAGE OF ROCHESTER
ROCHESTER, ILLINOIS
WATERMAIN & SANITARY SEWER REPLACEMENT
EAST MAIN STREET BRIDGE
PROPOSED WATERMAIN PLAN AND PROFILE



- NOTES:**
- RESTRAINED JOINTS ARE TO BE USED BENEATH BLACK BRANCH CREEK.
 - RESTRAIN 1 PIPE JOINT ALONG THE BRANCH OF THE TEE. RESTRAIN 1 PIPE JOINT ON EITHER SIDE OF 45° AND 90° BENDS.
 - WATERMAIN TO BE LOCATED APPROXIMATELY 5' NORTH OF EXISTING 6" MAIN. WATERMAIN SHALL BE AWWA C151 D.I. FLOURCARBON GASKET (VITON) TO BE USED. SEE SPECIFICATIONS FOR DETAILS.
 - ALL EXISTING WATER SERVICES ARE ASSUMED TO BE 3/4" DIAMETER AND SHALL BE RECONNECTED TO PROPOSED MAIN.
 - ELEVATION OF EXISTING WATERMAIN IS UNKNOWN. CONTRACTOR TO SUPPLY NECESSARY PIPE AND FITTINGS FOR CONNECTION.
 - EXISTING WATERMAIN IS CAST IRON PIPE.
 - SELECT GRANULAR BACKFILL REQUIRED, COORDINATE BACKFILL WITH ROADWAY PLANS.
 - INTERRUPTIONS TO THE CAR WASH SERVICE SHALL BE KEPT TO A MINIMUM.

© Copyright CMT, Inc.

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 191-000618

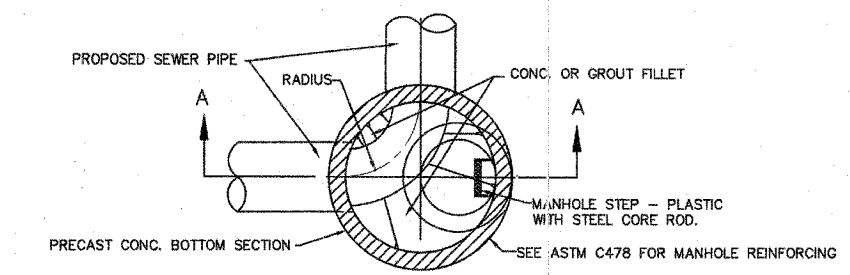
Carroll J. Cramer
 10/15/07
 Expires 11/30/07

PROFESSIONAL ENGINEER - STATE OF ILLINOIS
 LICENSE NO. 002-037867

DESIGN BY:	SJB
DRAWN BY:	RDW
CHECKED BY:	SMB
APPROVED BY:	<i>[Signature]</i>
DATE:	OCTOBER 15, 2007
JOB No:	07044-04-00
SHEET 4 OF 6 SHEETS	

PATH: L:\SangamonCo\0402901\Draw\Sheets
 FILE: C-MTR_PLAN-PRO-Exh1.dwg
 UPDATE BY: Rick Murphy
 DATE: Wednesday, October 17, 2007 5:07:56 PM

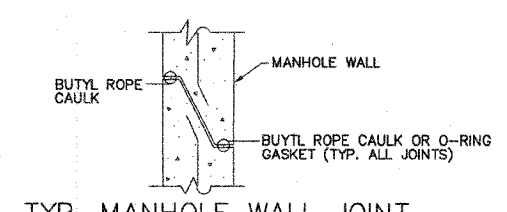
P.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	13
STA.		TO STA.		
FED. ROAD DIST. NO. 5		ILLINOIS FED. AID PROJECT		



MANHOLE TYPE	INSIDE DIA.	MIN. WALL THICKNESS
A-4	4'-0"	5"

PLAN MANHOLE-TYPE "A"
N.T.S.

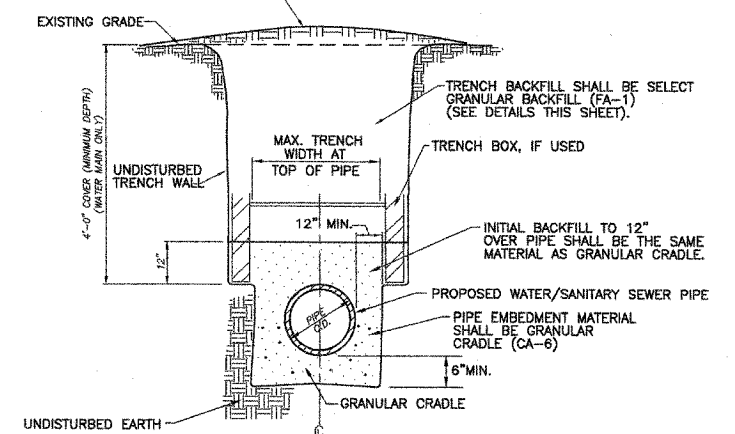
NOTE:
INVERT FLOWLINE AT BENDS SHALL HAVE A HORIZONTAL RADIUS EQUAL TO OR LARGER THAN THE PIPE DIAMETER.
FLOW CHANNEL SHALL HAVE A SEMI-CIRCULAR CROSS SECTION



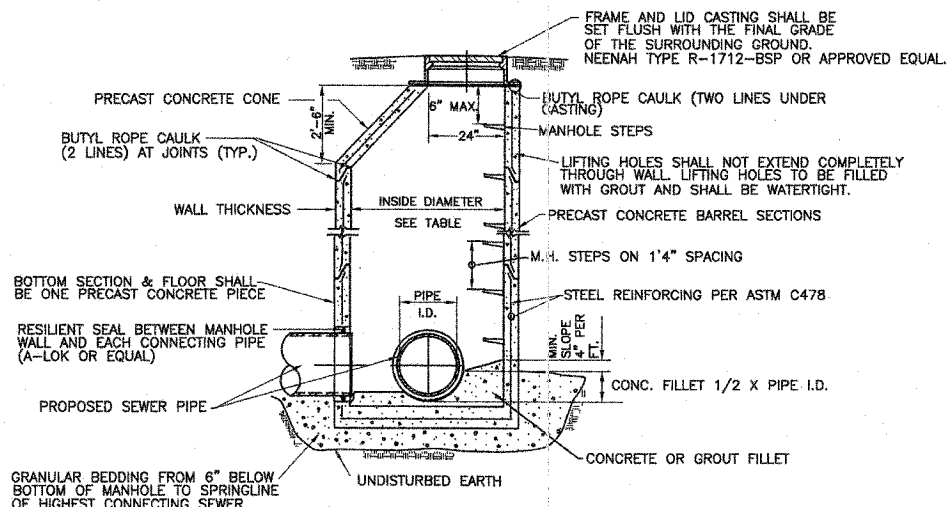
TYP. MANHOLE WALL JOINT
N.T.S.

EARTH BACKFILL SHALL BE LEFT SLIGHTLY MOUND TO ALLOW FOR SETTLEMENT IN TURF OR CULTIVATED AREAS. FOR STREETS OR DRIVEWAYS, SEE SURFACE RESTORATION DETAILS, THIS SHEET

NOTES:
1. TYPE OF MATERIAL AND COMPACTION FOR GRANULAR CRADLE AND INITIAL BACKFILL SHALL MEET PROJECT SPECIFICATIONS AND ASTM D2321 (LATEST REVISION)

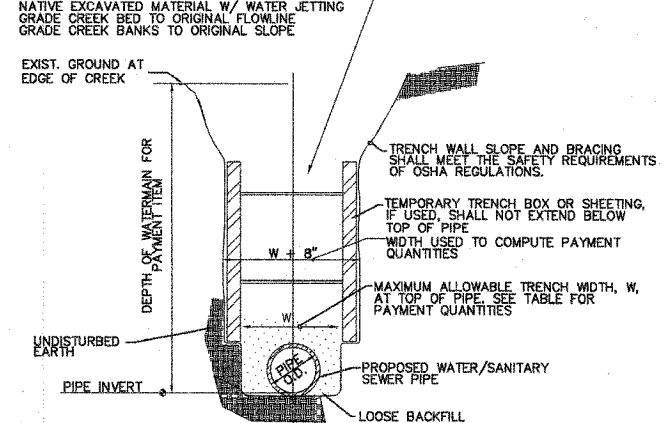


TYPICAL DETAIL - PVC & D.I. WATER/SEWER INSTALLATION UNDER OR WITHIN 2' OF PAVEMENT
N.T.S.

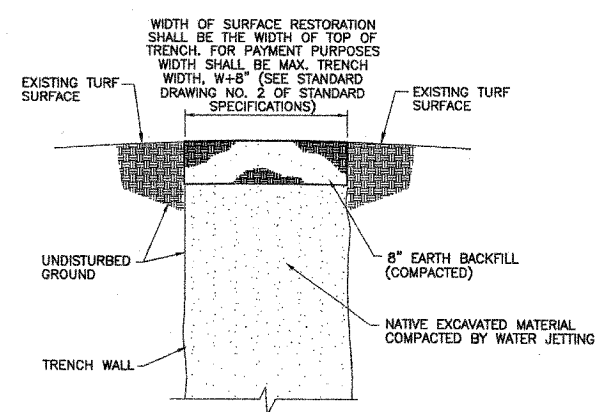


SECTION A-A MANHOLE - TYPE "A"
N.T.S.

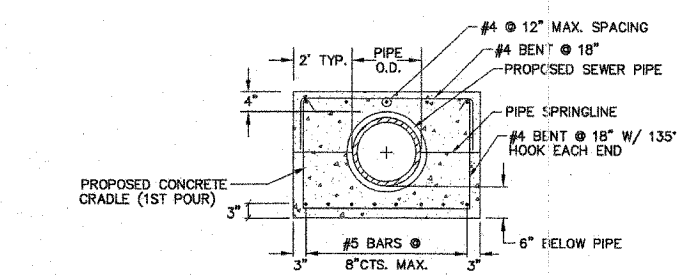
TRENCH BACKFILL & COMPACTION REQUIREMENTS



TYPICAL CREEK CROSSING INSTALLATION
N.T.S.



SURFACE RESTORATION DETAIL TURF SURFACES (IF NECESSARY)
N.T.S.



CONCRETE CRADLE DETAIL FOR STREAM CROSSING
N.T.S.

NOTES:
1. D.I.P. PIPE JOINTS SHALL BE OUTSIDE OF THE STREAM CROSSING.
2. NO POLY WRAP WHEN SANITARY SEWER IS CONCRETE ENCASED.

EXISTING LEGEND

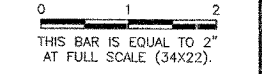
RIGHT OF WAY	R.O.W.	8"
SANITARY SEWER	SS	12"
STORM SEWER	SS	12"
WATERMAIN	W	6"
WATER SERVICE w/ METER PIT	W	6"
GATE VALVE AND VALVE BOX	G	
GAS MAIN	G	
TELEPHONE CABLE	T	
FIRE HYDRANT	F	
EDGE OF SIDEWALK		
MANHOLE		
ROAD SIGN		
POWER POLE		
LIGHT POLE		
INLET		
SOIL BORING		
GUY WIRE		
TREE OR SHRUB		

PROPOSED LEGEND

WATERMAIN	W 6"
WATER SERVICE RECONNECTION	W 6"
WATERLINE TO BE ABANDONED	W 6"
SANITARY SEWER	SS 12"
MANHOLE	
CAP	
GATE VALVE AND VAULT	
SELECT GRANULAR BACKFILL	

REVISIONS

NUMBER	BY	DATE



VILLAGE OF ROCHESTER
ROCHESTER, ILLINOIS

WATERMAIN & SANITARY SEWER REPLACEMENT
EAST MAIN STREET BRIDGE
TYPICAL DETAILS I

© Copyright CMT, Inc.

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000513

Professional Engineer
MURPHY F. SUMNER
No. 082-051267
Expires 11/30/07

DESIGN BY:	SJB
DRAWN BY:	RDM
CHECKED BY:	SJB
APPROVED BY:	HTA
DATE:	OCTOBER 15, 2007
JOB No:	07044-04-00

PATH: L:\SangamonCo\0402801\Draw Sheets
FILE: C-DETAILS-1.dwg
UPDATE BY: Rick Murphy
DATE: Monday, October 08, 2007 9:57:02 AM

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	14
STA.		TO STA.		
FED. ROAD DIST. NO. 5		ILLINOIS		FED. AID PROJECT

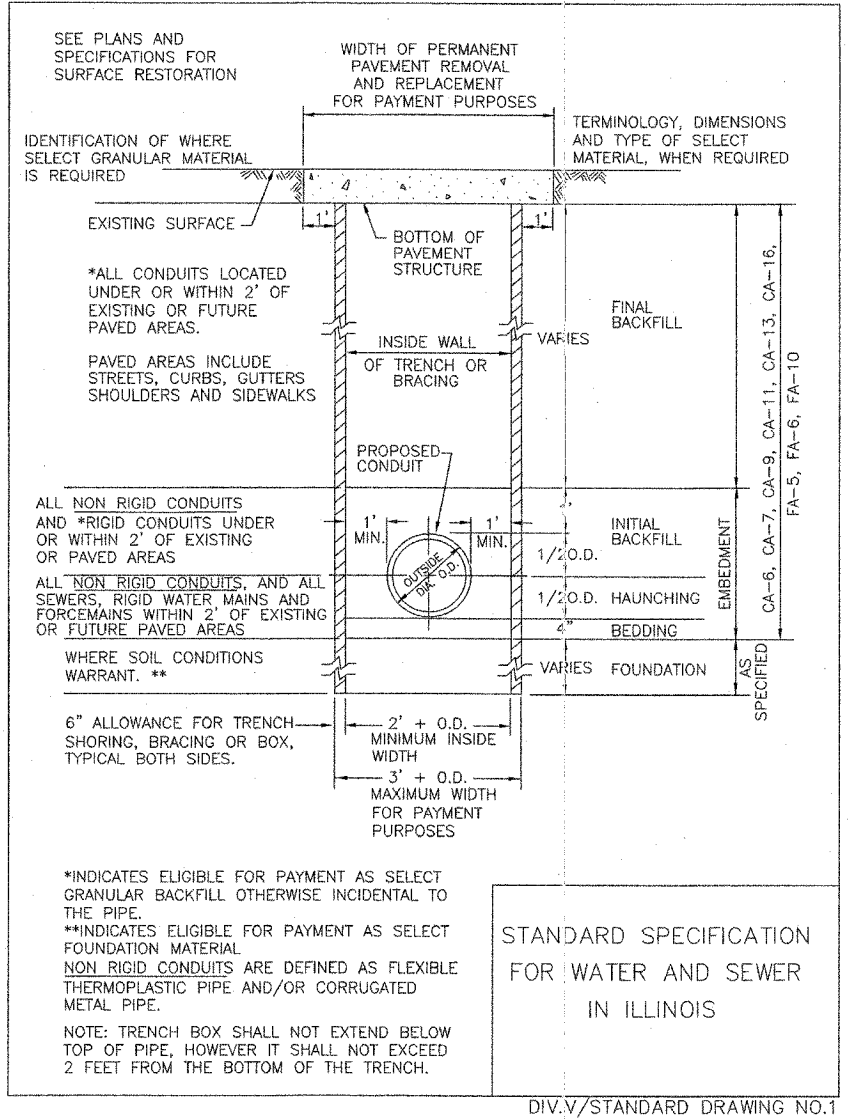
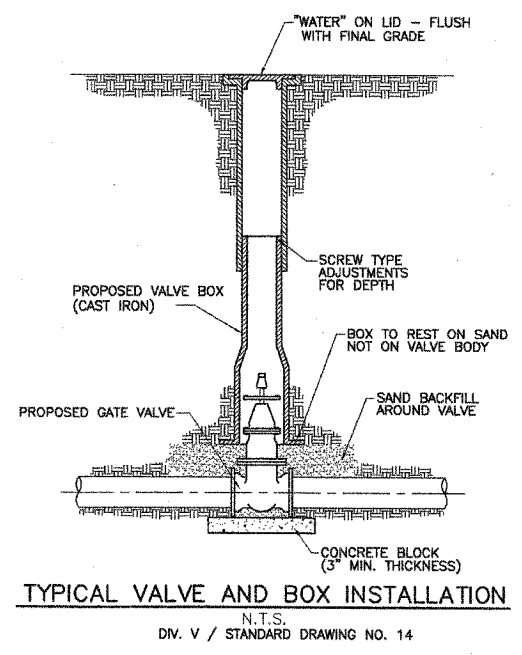


TABLE 1

INSIDE DIAMETER OF CONDUIT IN INCHES "D"	MAXIMUM TRENCH WIDTH IN FEET FOR PAYMENT	BEDDING C.Y./FOOT WHERE ELIGIBLE FOR PAYMENT	HAUNCHING C.Y./FOOT WHERE ELIGIBLE FOR PAYMENT	INITIAL BACKFILL C.Y./FOOT WHERE ELIGIBLE FOR PAYMENT	FINAL BACKFILL PER FOOT OF DEPTH WHERE ELIGIBLE FOR PAYMENT	PERMANENT PAVEMENT REMOVAL AND REPLACEMENT S.Y./FOOT
6	3.58	0.04	0.03	0.17	0.13	0.62
8	3.78	0.05	0.05	0.19	0.14	0.64
10	3.97	0.05	0.06	0.20	0.15	0.66
12	4.17	0.05	0.07	0.22	0.15	0.69
14	4.36	0.05	0.08	0.24	0.16	0.71
15	4.46	0.06	0.09	0.25	0.17	0.72
16	4.56	0.06	0.10	0.26	0.17	0.73
18	4.75	0.06	0.11	0.29	0.18	0.75
20	4.94	0.06	0.12	0.31	0.18	0.77
21	5.04	0.06	0.13	0.32	0.19	0.78
24	5.33	0.07	0.15	0.35	0.20	0.81
27	5.63	0.07	0.17	0.38	0.21	0.85
28	5.72	0.07	0.18	0.39	0.21	0.86
30	5.92	0.07	0.20	0.41	0.22	0.88
33	6.21	0.08	0.22	0.45	0.23	0.91
36	6.50	0.08	0.24	0.48	0.24	0.94
42	7.08	0.09	0.29	0.56	0.26	1.01
48	7.67	0.09	0.35	0.63	0.28	1.07
54	8.25	0.10	0.40	0.71	0.31	1.14
60	8.83	0.11	0.46	0.79	0.33	1.20
66	9.42	0.12	0.52	0.87	0.35	1.27
72	10.00	0.12	0.58	0.95	0.37	1.33
78	10.58	0.13	0.65	1.04	0.39	1.40
84	11.17	0.14	0.72	1.13	0.41	1.46
90	11.75	0.15	0.79	1.23	0.44	1.53
96	12.33	0.15	0.86	1.32	0.46	1.59
102	12.92	0.16	0.94	1.42	0.48	1.66
108	13.50	0.17	1.02	1.52	0.50	1.72
120	14.67	0.18	1.19	1.73	0.54	1.85

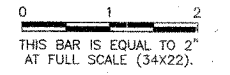
STANDARD DRAWING NO. 2

DIV.V/STANDARD DRAWING NO.2



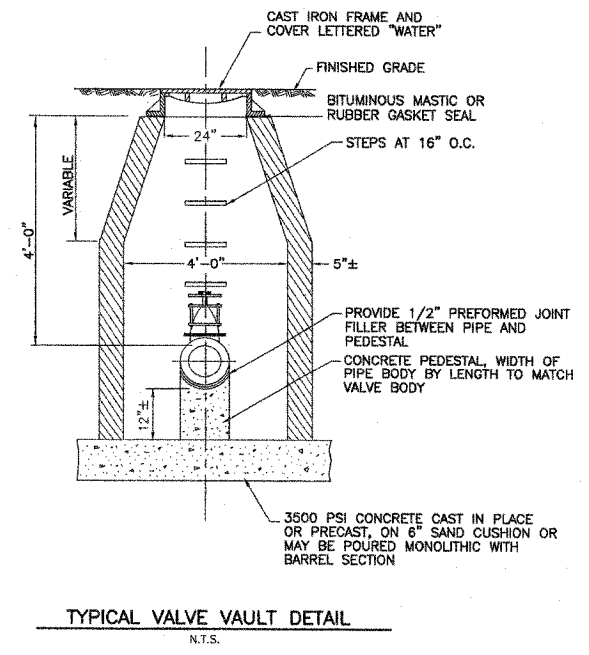
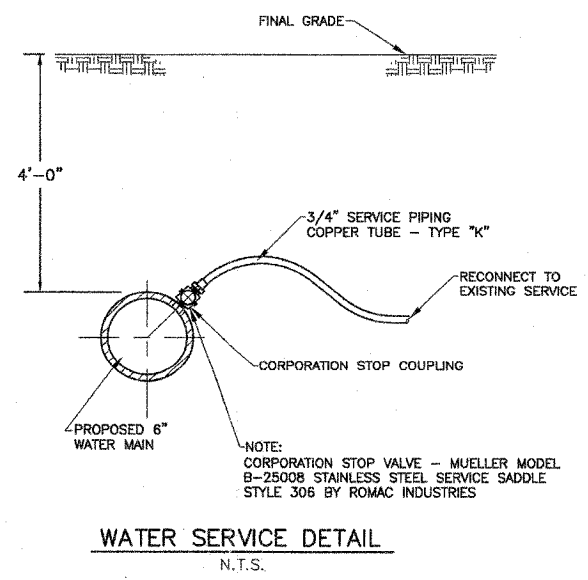
REVISIONS

NUMBER	BY	DATE



VILLAGE OF ROCHESTER
ROCHESTER, ILLINOIS

WATERMAIN & SANITARY SEWER REPLACEMENT
EAST MAIN STREET BRIDGE
TYPICAL DETAILS II



© Copyright CMT, Inc.

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 194-000693

DESIGN BY: SJB
DRAWN BY: RDM
CHECKED BY: SJB
APPROVED BY: SJB

DATE: OCTOBER 15, 2007
JOB No: 07044-04-00

SHEET 6 OF 6 SHEETS

10/15/07 Expires 11/30/07

REGISTERED PROFESSIONAL ENGINEER & SURVEYOR
TIMOTHY F. SUMNER
License No. 194-001867

PATH: L:\SangamonCo\0402901\draw\sheet
FILE: C-DETALS-2.dwg
UPDATE BY: Rick Murphy
DATE: Monday, October 08, 2007 9:57:49 AM

BENCHMARK

North bolt of fire hydrant @ N.W. corner of East Main and North Water Street (Mueller bolt)
Elev. 559.10

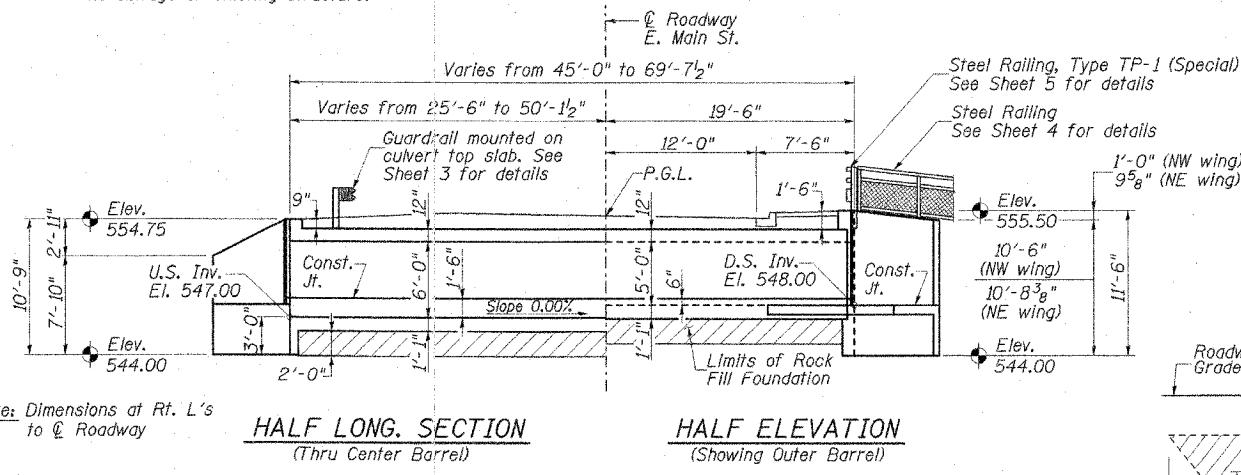
EXISTING STRUCTURE

S.N. 084-0079 - Original construction date unknown and widened in 1927. The structure is a simple span concrete slab bridge with an adjacent double barrel box culvert. The structure length is 48'-0" and the structure width is 59'-0".

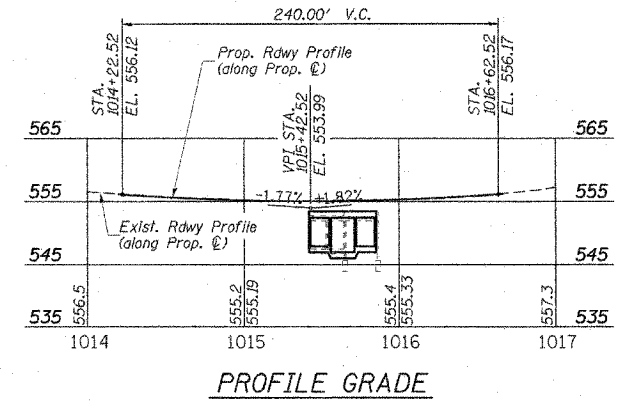
No salvage of existing structure.

PROPOSED STRUCTURE

New triple barrel box culvert with 12'-0" end spans and 15'-0" interior span. East Main Street to be closed during construction and traffic to be maintained utilizing a detour route.

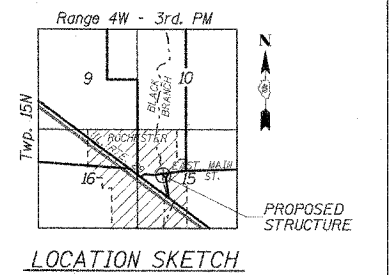


Note: Dimensions at Rt. L's to @ Roadway



F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	15
STA.		TO STA.		
FED. ROAD DIST. NO. 5		ILLINOIS		FED. AID PROJECT

SHEET 1 OF 6



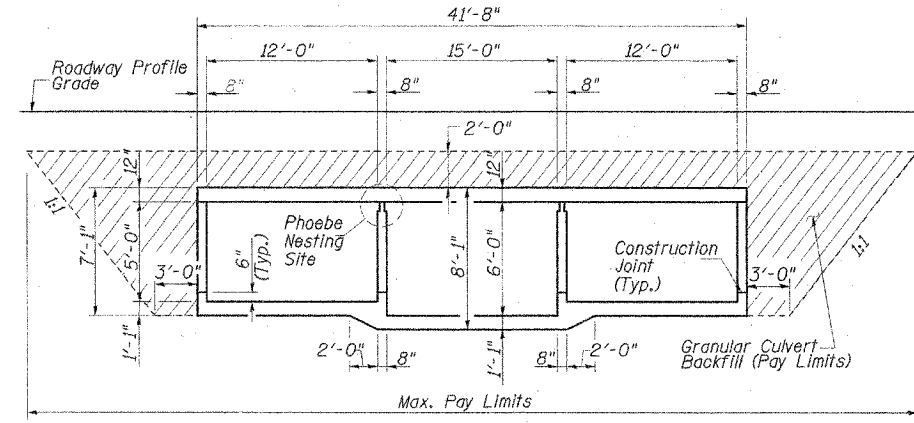
LOADING HS20-44

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

DESIGN SPECIFICATIONS
 2002 AASHTO "Standard Specifications for Highway Bridges"

DESIGN STRESSES

FIELD UNITS
 f'c = 3,500 psi
 fy = 60,000 psi (reinforcement)



BILL OF MATERIAL

Item	Unit	Quantity
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	42,640
Reinforcement Bars, Epoxy Coated	Pound	200
Steel Railing	Foot	30
Steel Railing, Type TP-1 (Special)	Foot	40
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	235.7
Rock Fill Foundation	Tons	531
Granular Culvert Backfill	Cu. Yd.	466

WATERWAY INFORMATION

Exist. Low Grade Elev. 555.04 @ Sta. 1015+42.81		Prop. Low Grade Elev. 555.32 @ Sta. 1015+40.00							
Drainage Area = 3.90 sq. mi.									
Flood Yr.	Freq. C.F.S.	Opening Sq. Ft.	Head - Ft.	Headwater El.					
Design	30	1004.03	123.61	210.00	555.91	0.14	0.10	556.05	556.01
Base	100	1369.90	123.61	210.00	556.57	0.02	0.07	556.59	556.50
Overtopping	10	611.65	123.61	210.00	555.21	0.38	0.26	556.59	555.47
Max. Calc.	500	1875.17	123.61	210.00	557.29	0.55	0.11	557.80	557.18

CONSTRUCTION PERMITS: THIS PROJECT HAS BEEN APPROVED FOR CONSTRUCTION UNDER STATEWIDE PERMIT NO. 12 AS ISSUED BY THE DEPARTMENT OF NATURAL RESOURCES/ OFFICE OF WATER RESOURCES.

GENERAL NOTES:

1. Reinforcement bars shall conform to the requirements of the ASTM A706 grade 60. (See Special Provision.)
2. All construction joints shall be bonded.
3. Exposed edges shall have a 3/8" chamfer.
4. Precast culvert alternative will not be allowed.

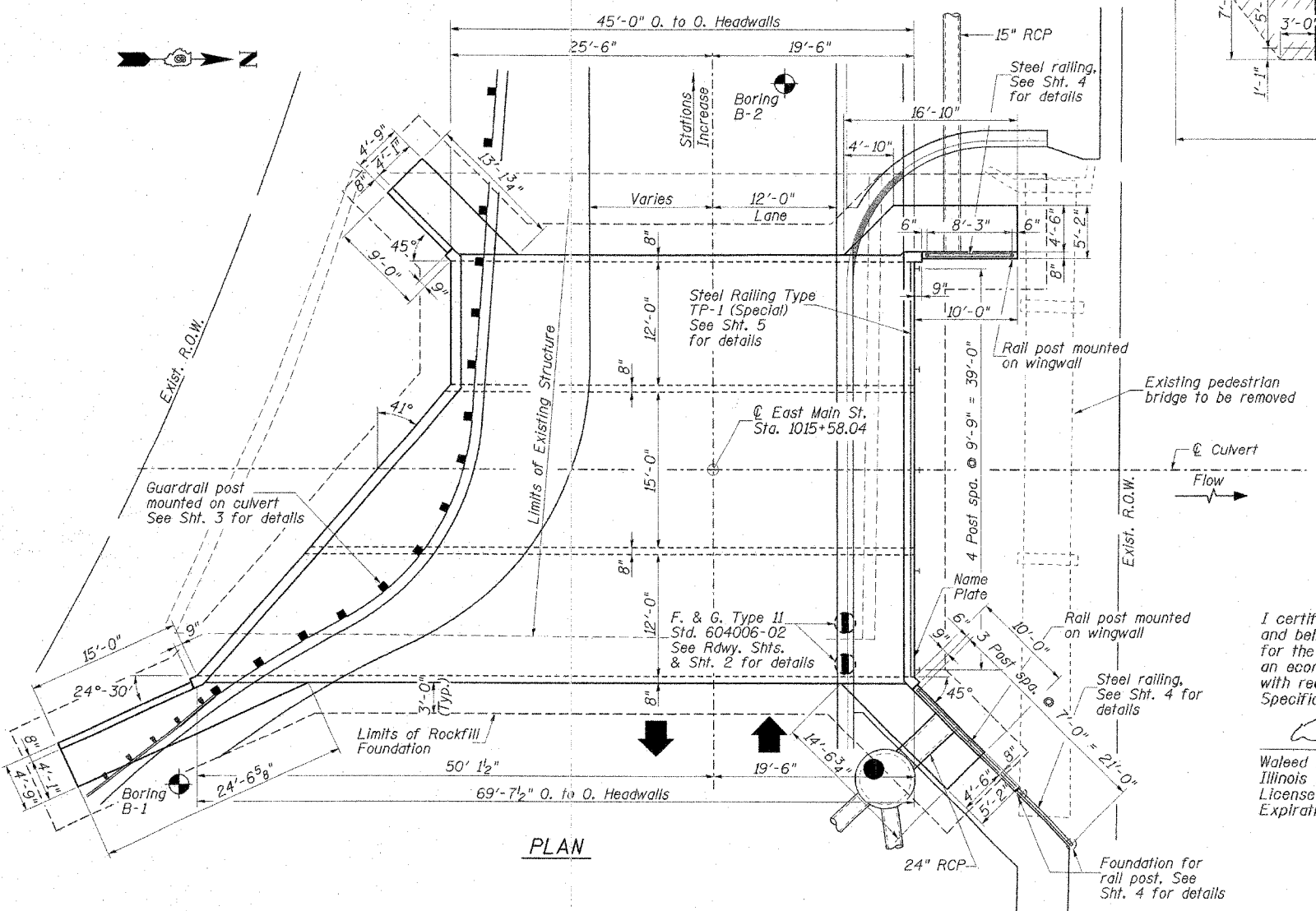
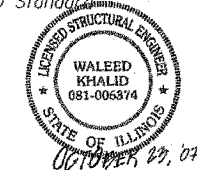
NAME PLATE
 See Std. 515001

BORING DATA

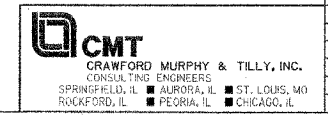
Boring No.	Station	Offset
B-1	1015+27	53' Lt.
B-2	1015+95	5' Rt.

I certify that to the best of my knowledge, information and belief, that this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specifications for Highway Bridges."

Waleed Khalid
 Waleed Khalid, S.E.
 Illinois Licensed Structural Engineer
 License Number: 081-006374
 Expiration Date: November 30, 2008



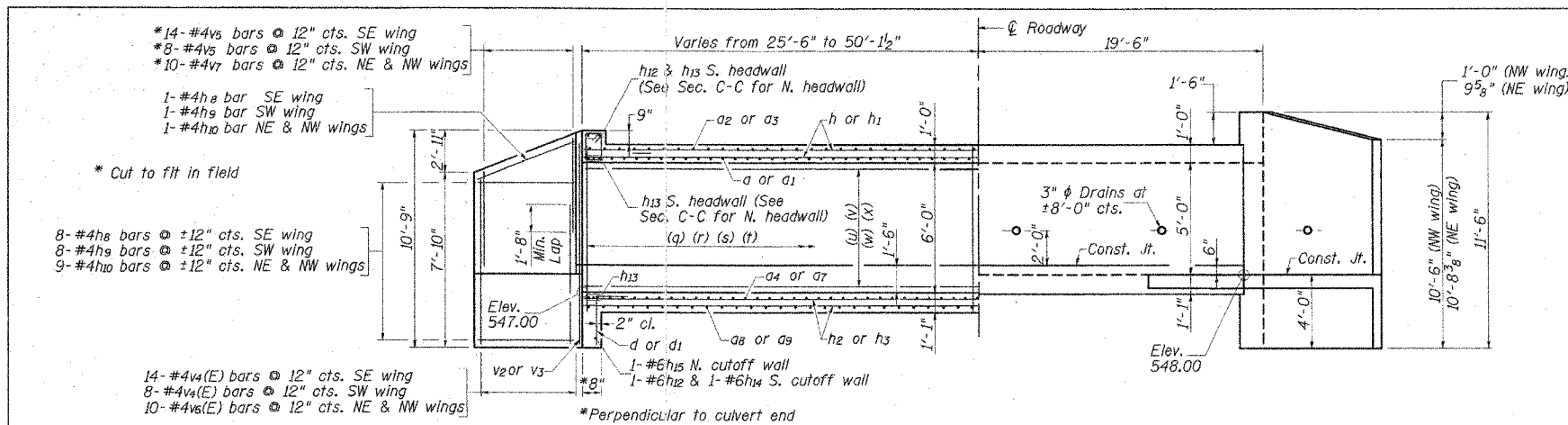
I:\Projects\04-00119-03-BR\Drawings\GENERAL PLAN.DWG 11/1/2007



REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN & ELEVATION
 F.A. ROUTE 556 (EAST MAIN STREET)
 EAST MAIN STREET OVER
 BLACK BRANCH
 SECTION 04-00119-03-BR STA. 1015+58.04
 STR. NO. 084-8010 - SANGAMON COUNTY
 SCALE: NONE DRAWN BY: GLD
 DATE: 10/15/07 CHECKED BY: WK

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	16
STA.	TO STA.			
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT	SHEET 2 OF 6	



BAR CALLOUTS PLAN VIEW

- (a) 54-#7a bars @ 10" cts. Bott. of Top Slab
- (b) 45-#7a2 bars @ 12" cts. Top of Top Slab
- (c) 54-#7a4 bars @ 10" cts. Top of Bott. Slab
- (d) 54-#7a5 bars @ 10" cts. Top of Bott. Slab
- (e) 70-#7a4 bars @ 10" cts. Top of Bott. Slab
- (f) 26-#7a1 bars @ 10" cts. Bott. of Top Slab
- (g) 22-#7a3 bars @ 12" cts. Top of Top Slab
- (h) 14-#7a6 bars @ 10" cts. Top of Bott. Slab
- (i) 10-#7a7 bars @ 10" cts. Top of Bott. Slab
- (j) 45-#7a8 bars @ 12" cts. Bott. of Bott. Slab
- (k) 58-#7a8 bars @ 12" cts. Bott. of Bott. Slab
- (m) 8-#7a9 bars @ 12" cts. Bott. of Bott. Slab
- (n) 45-#7a10 bars @ 12" cts. Bott. of Bott. Slab
- (p) 12-#7a11 bars @ 12" cts. Bott. of Bott. Slab

HALF LONG SECTION
(Thru center barrel)

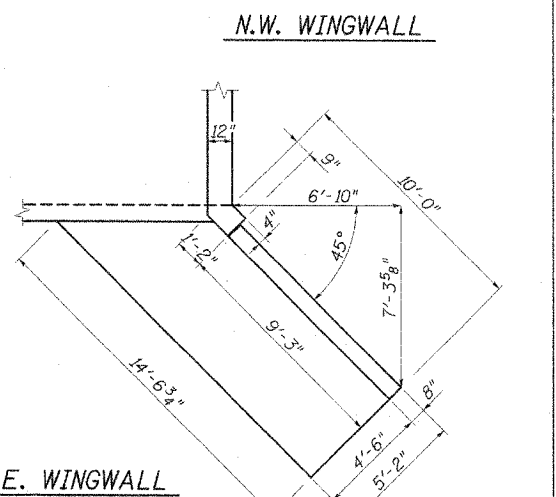
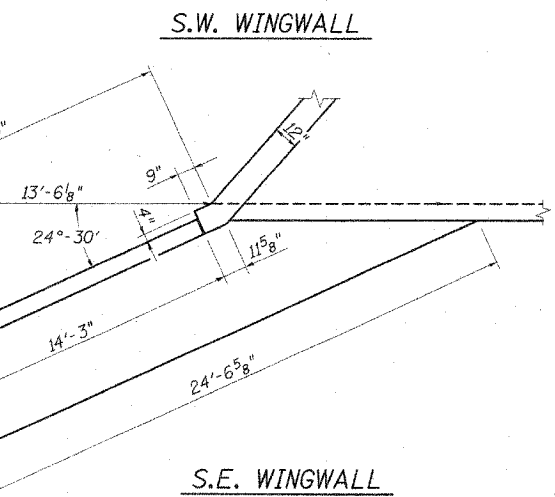
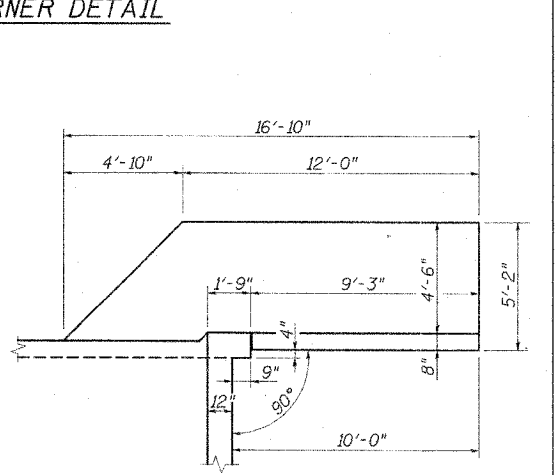
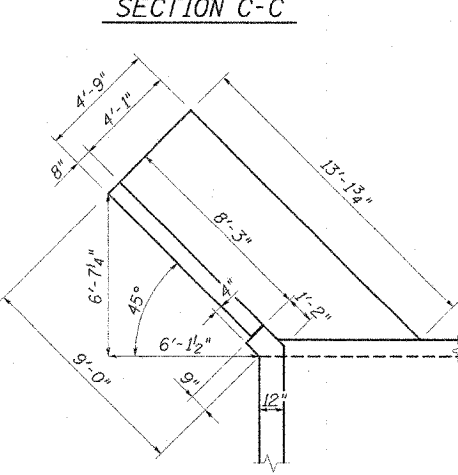
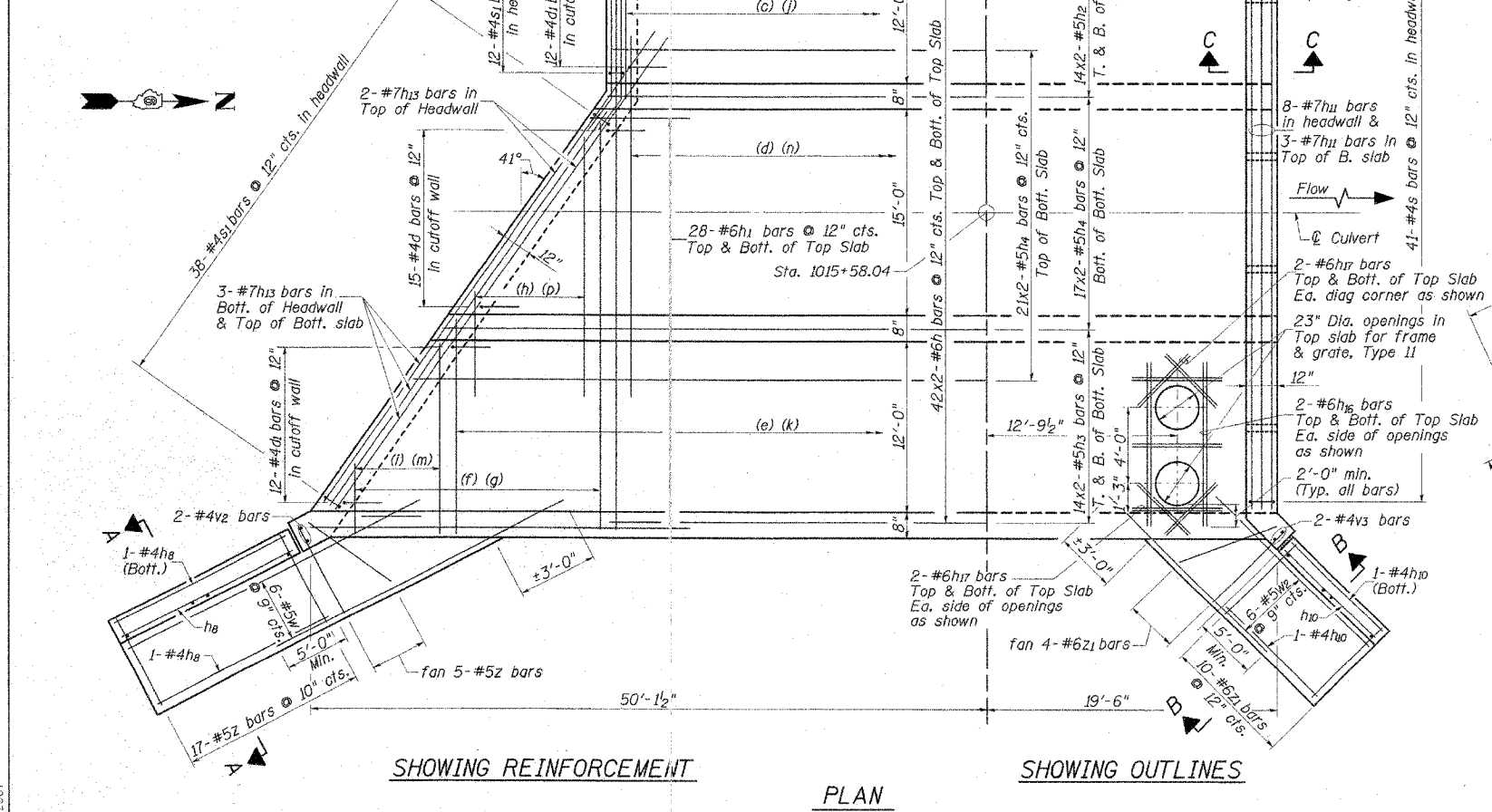
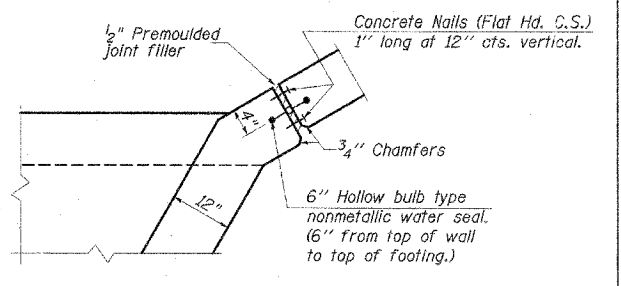
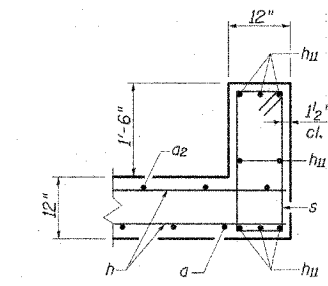
HALF ELEVATION
(Showing Outer Barrel)

MIN. BAR LAP

- #5 Bar = 1'-8"
- #6 Bar = 2'-0"

BAR CALLOUTS ELEVATION VIEW

- (q) 54-#5v bars @ 10" cts. West Outer Wall
- (r) 84-#5v bars @ 10" cts. East Outer Wall
- (s) 54-#5v bars @ 10" cts. West Inner Wall
- (t) 71-#5v bars @ 10" cts. East Inner Wall
- (u) 5x2-#5h5 bars @ 12" cts. West Outer Wall
- (v) 6x2-#5h5 bars @ 12" cts. West Inner Wall
- (w) 6x2-#5h6 bars @ 12" cts. East Inner Wall
- (x) 5x2-#5h7 bars @ 12" cts. East Outer Wall



- NOTES:**
- Bars indicated thus 12x4-#5 etc. indicates 12 lines of bars with 2 lengths per line.
 - Reinforcement bars designated (E) shall be epoxy coated.
 - See Sheet 3 for Section A-A and Section B-B.

REVISIONS	
NAME	DATE

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

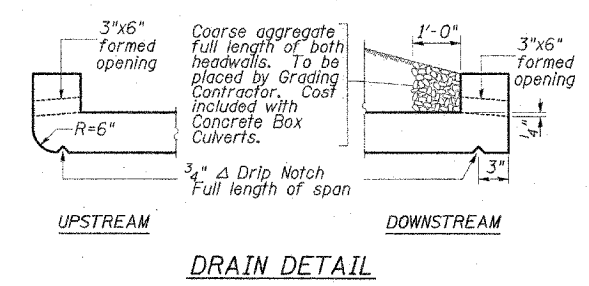
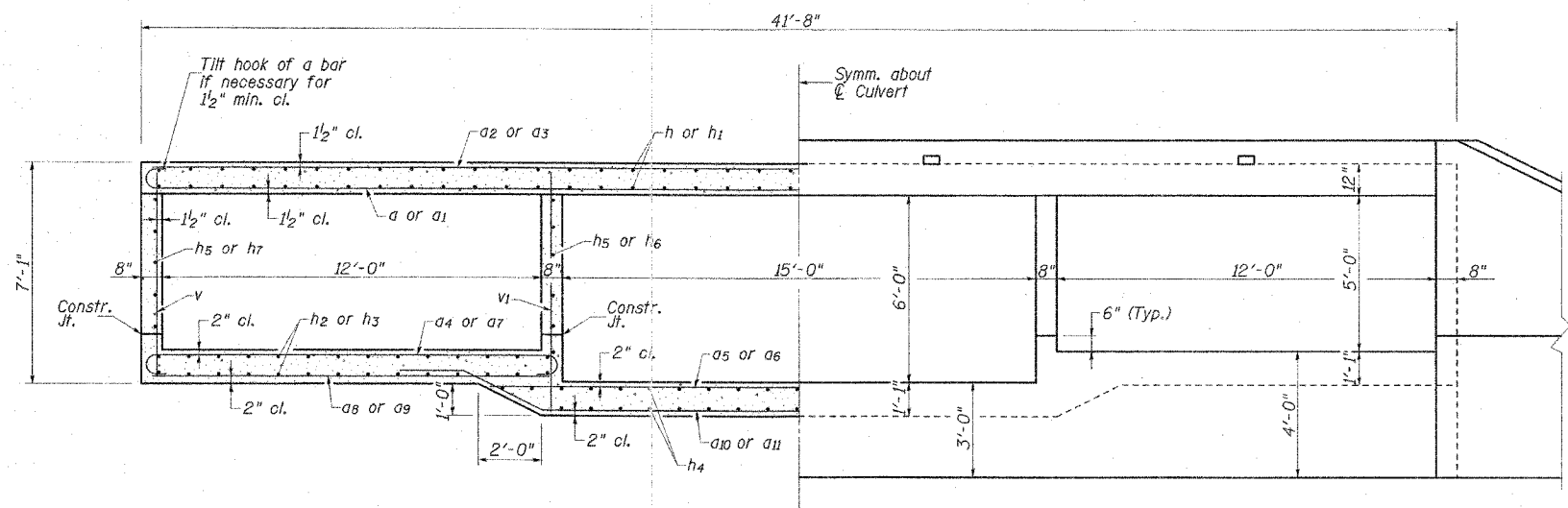
ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT DETAILS 1
F.A. ROUTE 556 (EAST MAIN STREET)
EAST MAIN STREET OVER
BLACK BRANCH
SECTION 04-00119-03-BR STA. 1015+58.04
STR. NO. 084-8010 - SANGAMON COUNTY
SCALE: NONE DRAWN BY: GLD
DATE: 10/23/07 CHECKED BY: WK

L:\S000m000\04-00119-03-BR\Drawings\CULVERT DETAILS-02.DWG 1/1/2007

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	17
STA.	TO STA.			
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				
SHEET 3 OF 6				

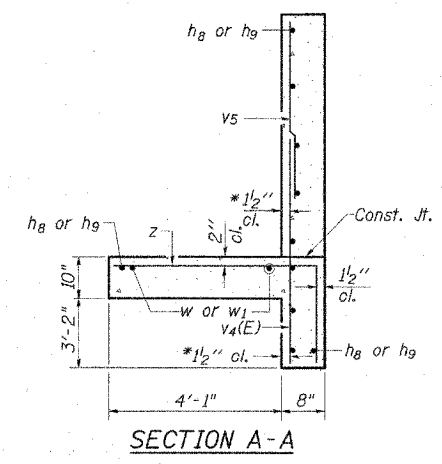
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a	54	#7	43'-0"		
a1	13	#7	31'-11"		
a2	45	#7	41'-4"		
a3	11	#7	29'-8"		
a4	124	#7	14'-8"		
a5	54	#7	20'-0"		
a6	7	#7	21'-6"		
a7	5	#7	16'-11"		
a8	103	#7	13'-0"		
a9	4	#7	15'-6"		
a10	45	#7	24'-9"		
a11	6	#7	25'-7"		
d	30	#4	4'-6"		
d1	48	#4	5'-6"		
h	168	#6	23'-4"		
h1	28	#6	30'-0"		
h2	56	#5	23'-2"		
h3	56	#5	35'-6"		
h4	76	#5	31'-2"		
h5	22	#5	23'-2"		
h6	12	#5	30'-0"		
h7	10	#5	35'-6"		
h8	11	#4	13'-11"		
h9	11	#4	7'-11"		
h10	24	#4	8'-11"		
h11	11	#7	41'-0"		
h12	3	#6	15'-4"		
h13	8	#7	37'-10"		
h14	1	#6	37'-10"		
h15	1	#6	41'-0"		
h16	8	#6	10'-0"		
h17	28	#6	6'-4"		
h18	16	#5	6'-5"		
s	41	#4	6'-9"		
s1	50	#4	5'-3"		
v	138	#5	6'-9"		
v1	125	#5	7'-9"		
v2	4	#4	10'-5"		
v3	4	#4	11'-2"		
v4(E)	22	#4	7'-6"		
v5	22	#4	4'-6"		
v6(E)	20	#4	6'-8"		
v7	20	#4	6'-2"		
w	6	#5	18'-10"		
w1	6	#5	13'-0"		
w2	6	#5	13'-4"		
w3	6	#5	14'-7"		
z	37	#5	8'-2"		
z1	30	#6	8'-7"		
Concrete Box Culverts				Cu. Yd.	235.7
Reinforcement Bars				Pound	42,640
Reinforcement Bars, Epoxy Coated				Pound	200

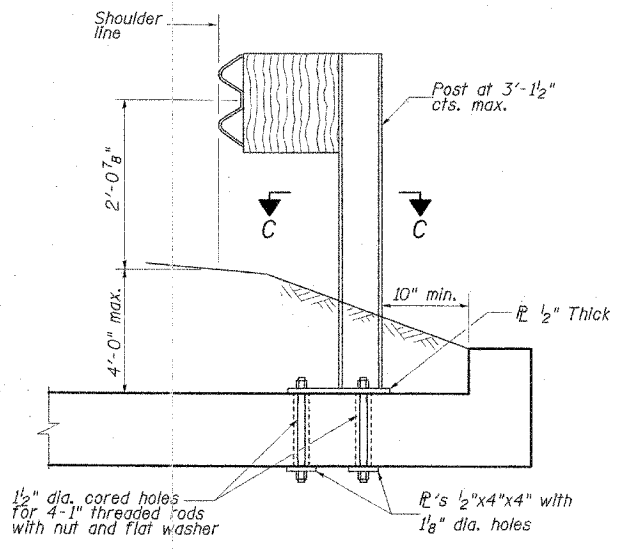


HALF SECTION THRU BARREL

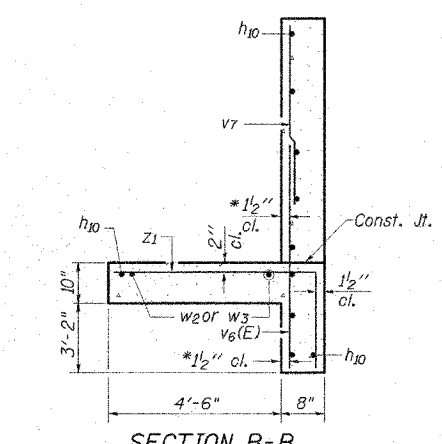
HALF END ELEVATION



SECTION A-A

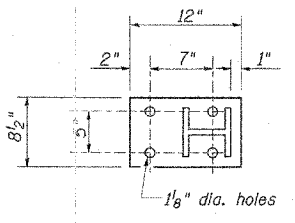


CROSS SECTION



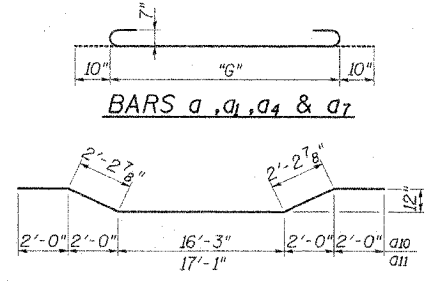
SECTION B-B

* v bars shall not be placed more than 1/2" cl. from back face of wingwall.

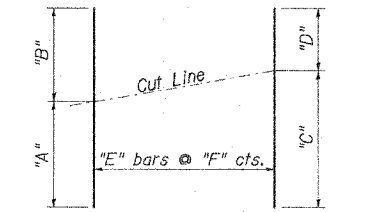


SECTION C-C

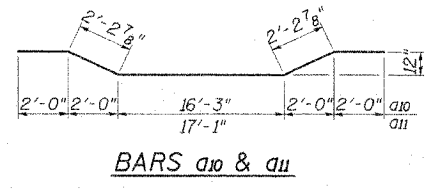
GUARDRAIL MOUNTED ON CULVERT TOP SLAB



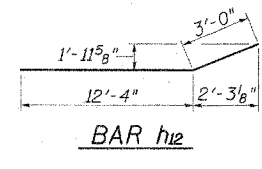
BARS a, a1, a4 & a7



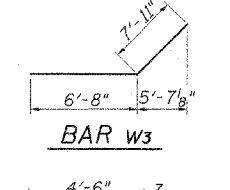
CUTTING DIAGRAM FOR a1, a3, a6, a7, a9, a11 & h1 BARS



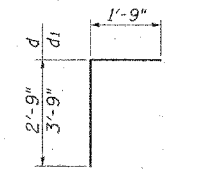
BARS a10 & a11



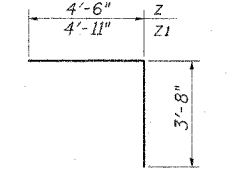
BAR h12



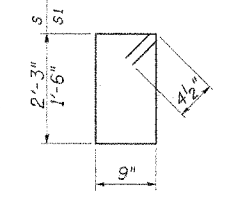
BAR w3



BAR d & d1



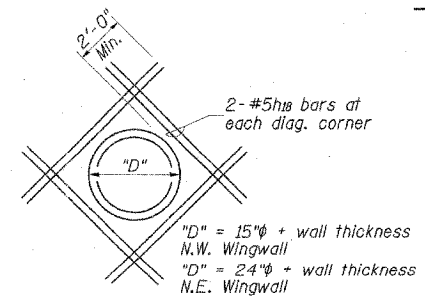
BAR z & z1



BARS s & s1

TABLE OF DIMENSIONS

Bar	"A"	"B"	"C"	"D"	"E"	"F"	"G"
a	-	-	-	-	-	-	41'-4"
a1	16'-5"	15'-6"	27'-11"	4'-0"	13	10	30'-3"
a3	15'-5"	14'-3"	26'-11"	2'-9"	11	12	-
a4	-	-	-	-	-	-	13'-0"
a6	11'-3"	10'-3"	17'-0"	4'-6"	7	10	-
a7	9'-0"	7'-11"	12'-9"	4'-2"	5	10	15'-3"
a9	8'-4"	7'-2"	11'-9"	3'-9"	4	12	-
a11	13'-4"	12'-3"	19'-1"	6'-6"	6	12	-
h1	3'-2"	26'-10"	26'-10"	3'-2"	28	12	-



ADDITIONAL REINF. FOR RCP PENETRATION IN WINGWALL

See Roadway Plans for Location and Elevation

NOTES:

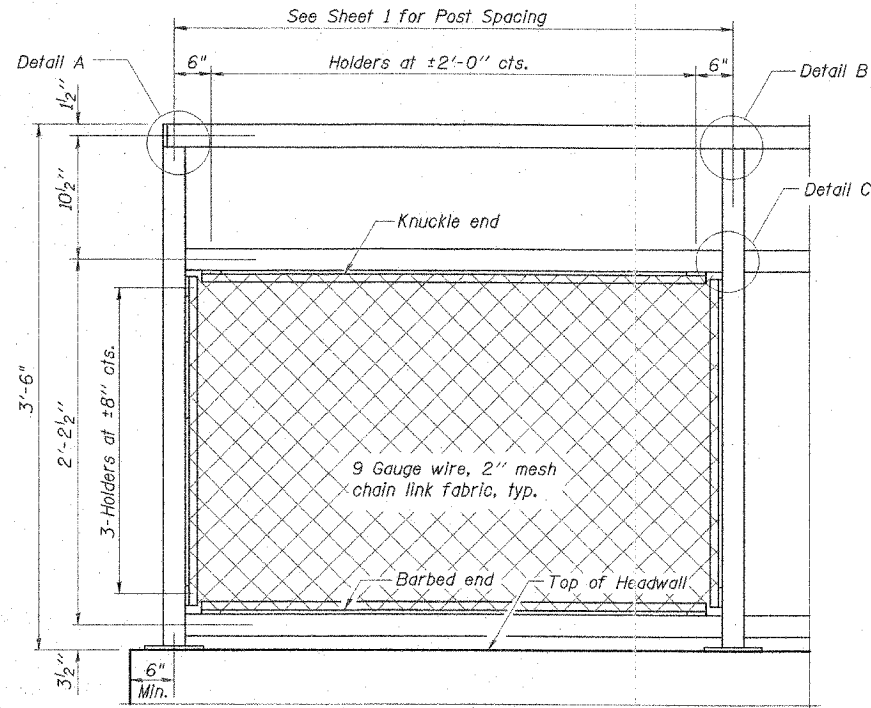
1. Reinforcement bars designated (E) shall be epoxy coated.

REVISIONS	
NAME	DATE

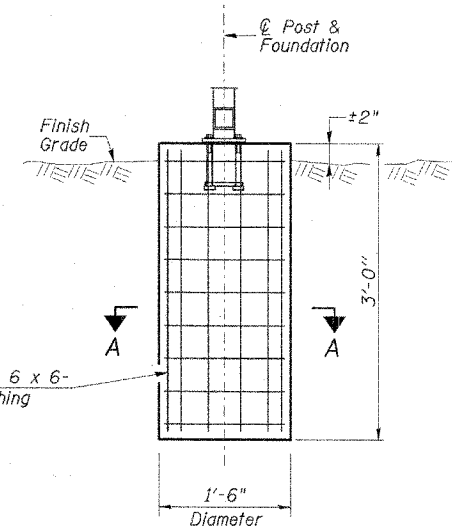
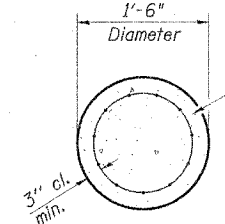
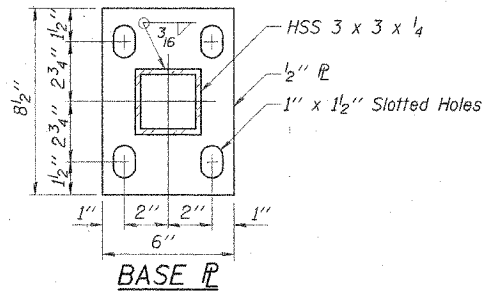
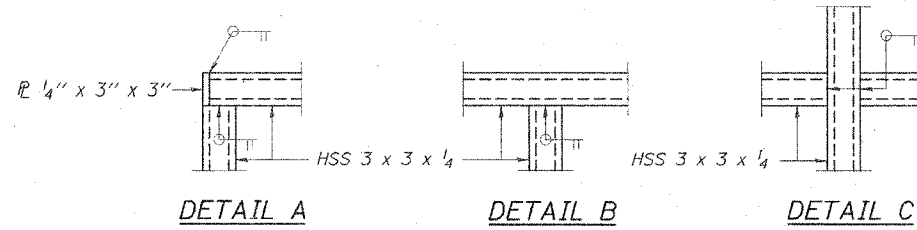
ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT DETAILS 2
 F.A. ROUTE 556 (EAST MAIN STREET)
 EAST MAIN STREET OVER
 BLACK BRANCH
 SECTION 04-00119-03-BR STA. 1015+58.04
 STR. NO. 084-8010 - SANGAMON COUNTY
 SCALE: NONE DRAWN BY: GLJ
 DATE: 10/23/07 CHECKED BY: WK



F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	18
STA. TO STA.				
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

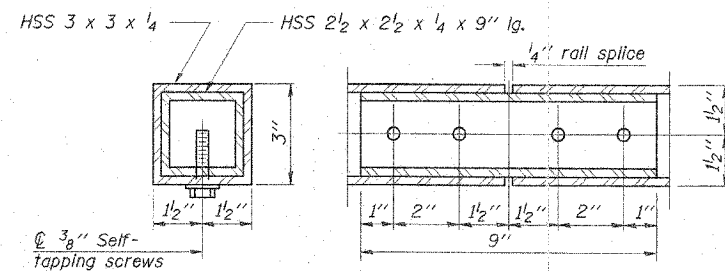


STEEL RAILING

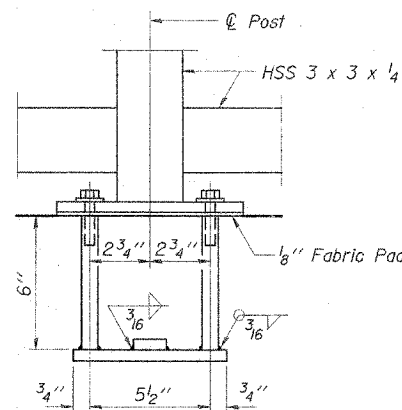


POST FOUNDATION

NOTE:
All necessary excavation, backfilling, disposal of unsuitable or surplus material, formwork and furnishing and placing the Class SI Concrete and reinforcement shall be included in the Pay Item "Steel Railing".

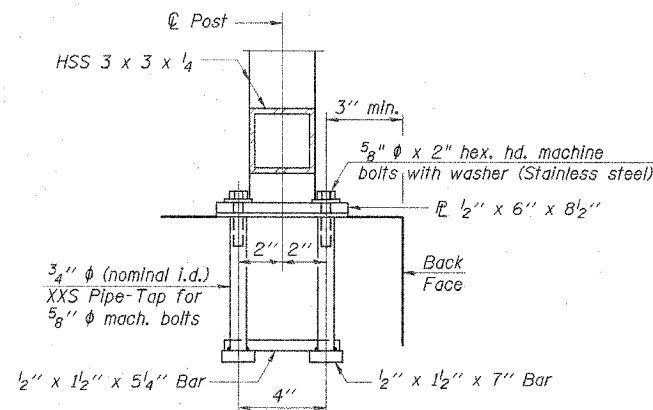


RAIL SPLICE



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" diameter anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



NOTES:

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing	Foot	30

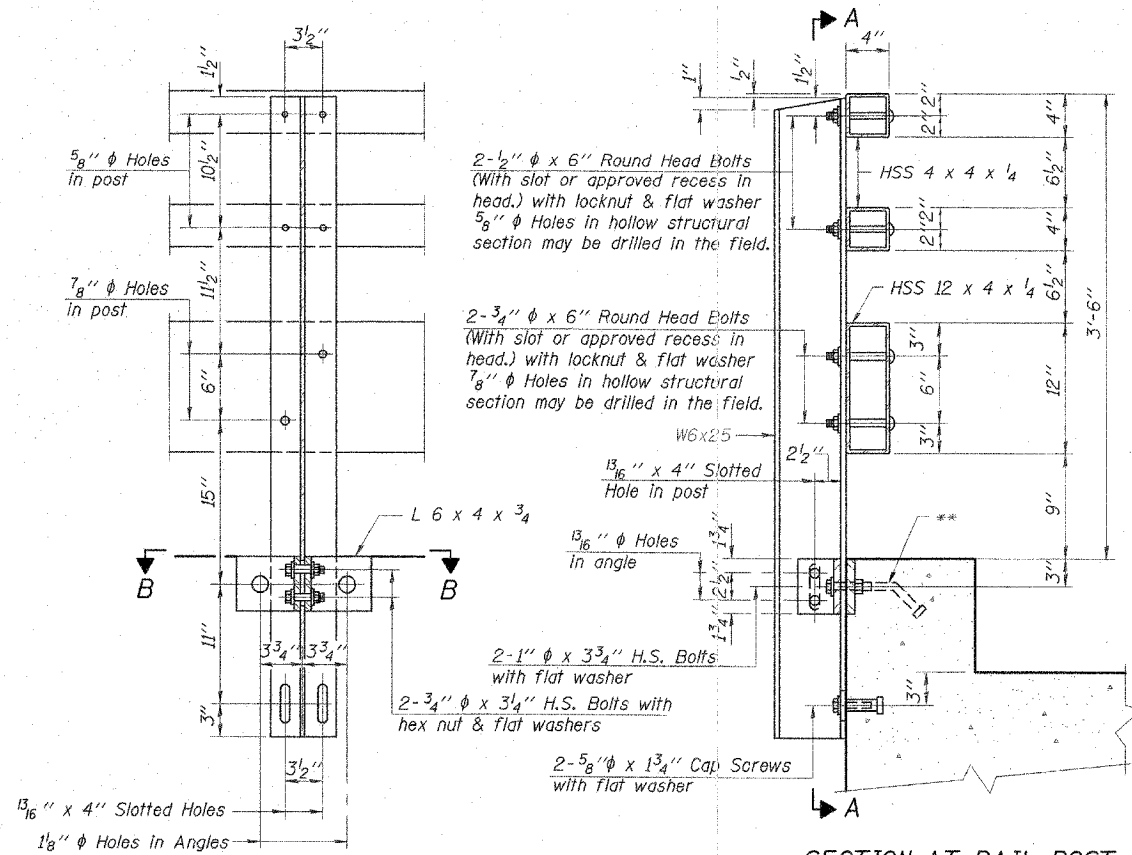
REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STEEL RAILING DETAILS
 F.A. ROUTE 556 (EAST MAIN STREET)
 EAST MAIN STREET OVER
 BLACK BRANCH
 SECTION 04-00119-03-BR STA. 1015+58.04
 STR. NO. 084-8010 - SANGAMON COUNTY
 SCALE: NONE DRAWN BY: GLD
 DATE: 10/23/07 CHECKED BY: WK

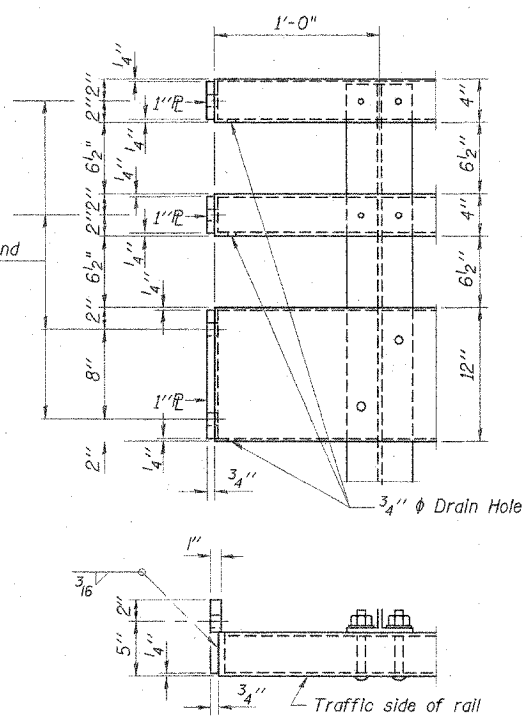
CMT
 CRAWFORD MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
 ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	19
STA.	TO STA.			
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

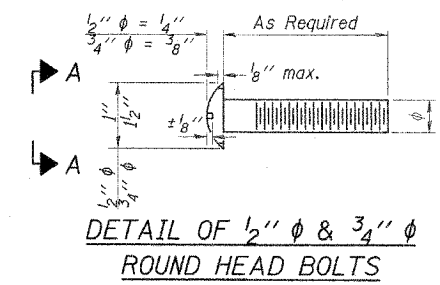
All field drilled holes shall be coated with an approved zinc rich paint before erection.
 For multi-span bridges, sufficient 1/4" x 6" x 1-3/2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type TP-1.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
 ** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



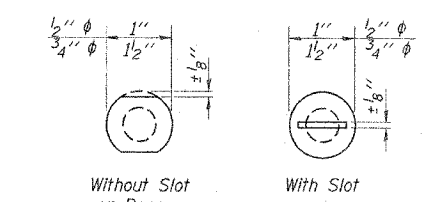
SECTION AT RAIL POST



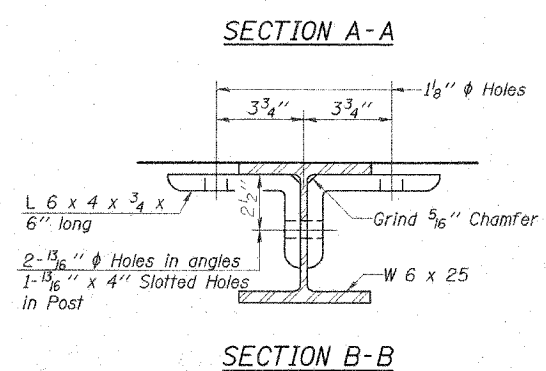
END OF RAIL DETAILS



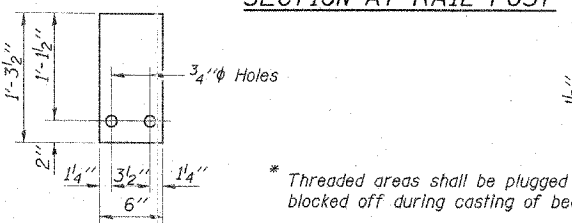
DETAIL OF 1/2" & 3/4" ROUND HEAD BOLTS



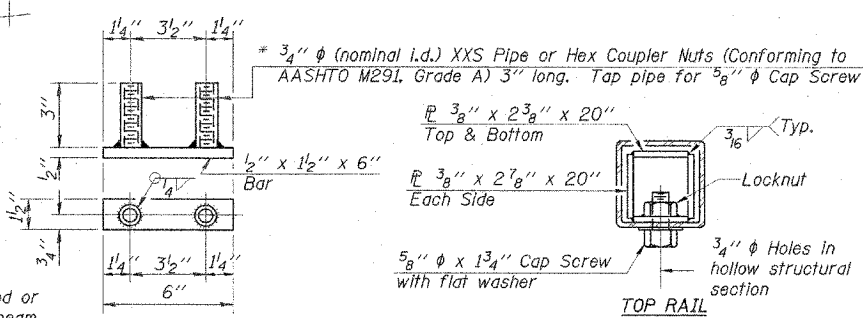
VIEW A-A



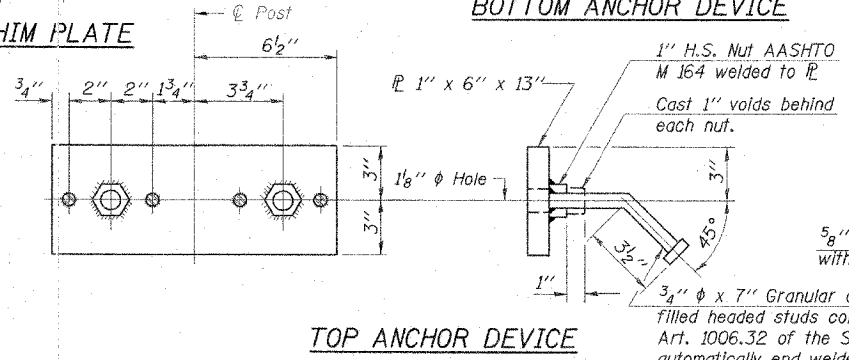
SECTION B-B



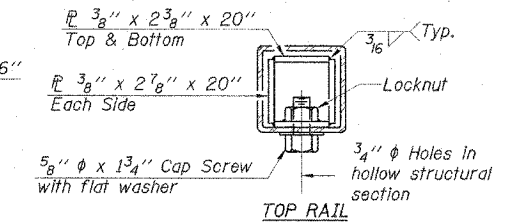
4" SHIM PLATE



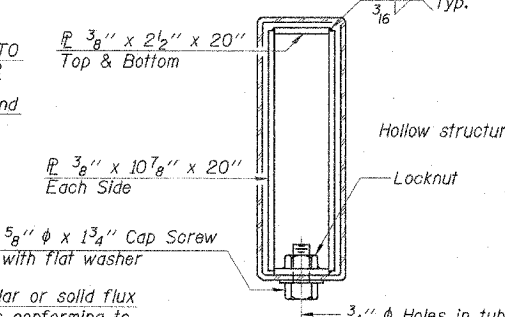
BOTTOM ANCHOR DEVICE



TOP ANCHOR DEVICE

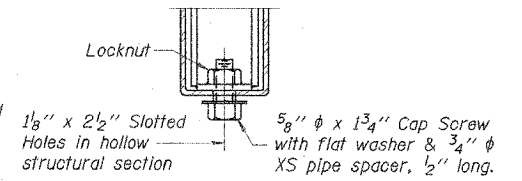


TOP RAIL

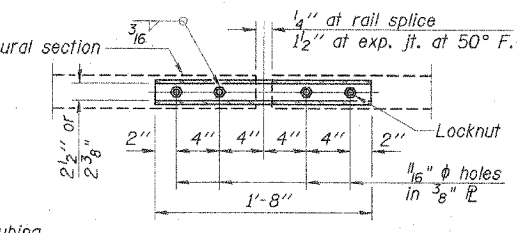


BOTTOM RAIL

SECTIONS AT RAIL SPLICE



RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE R TYPICAL

BILL OF MATERIAL

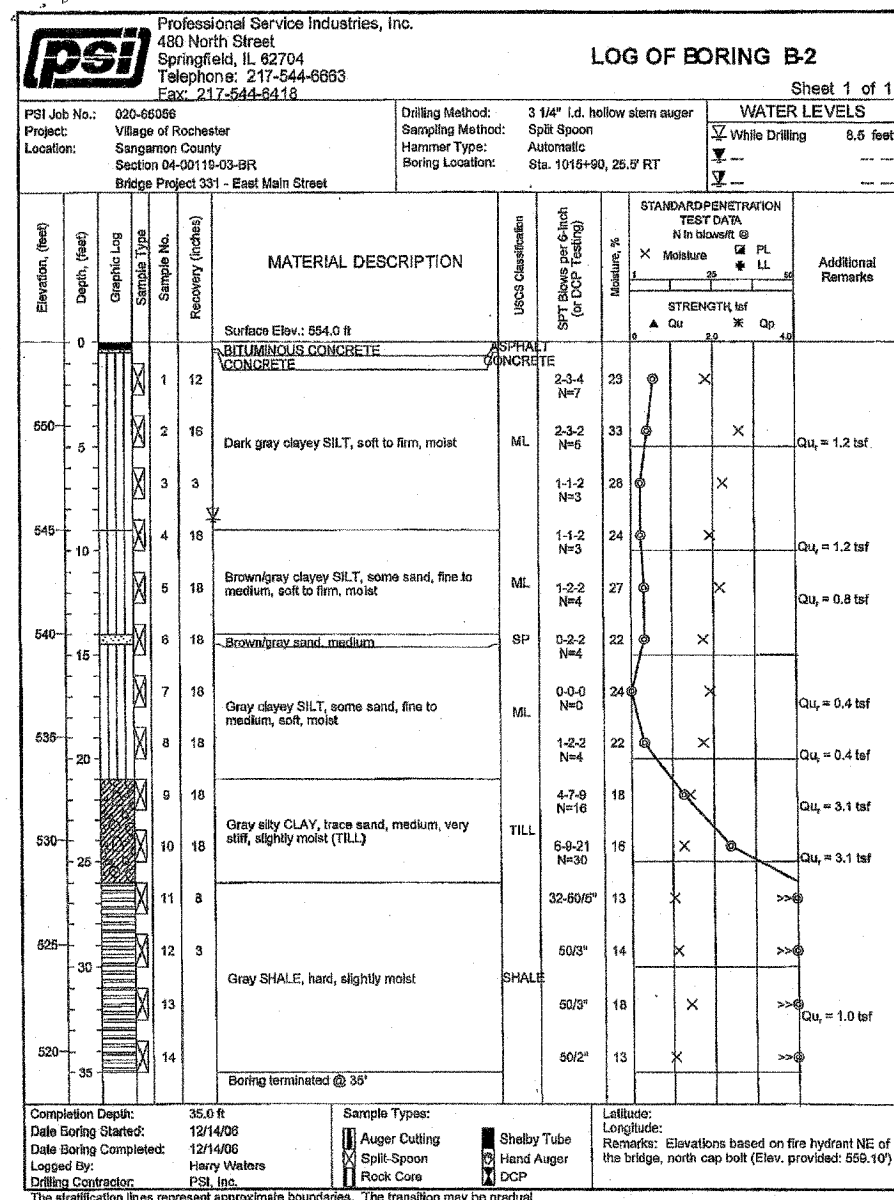
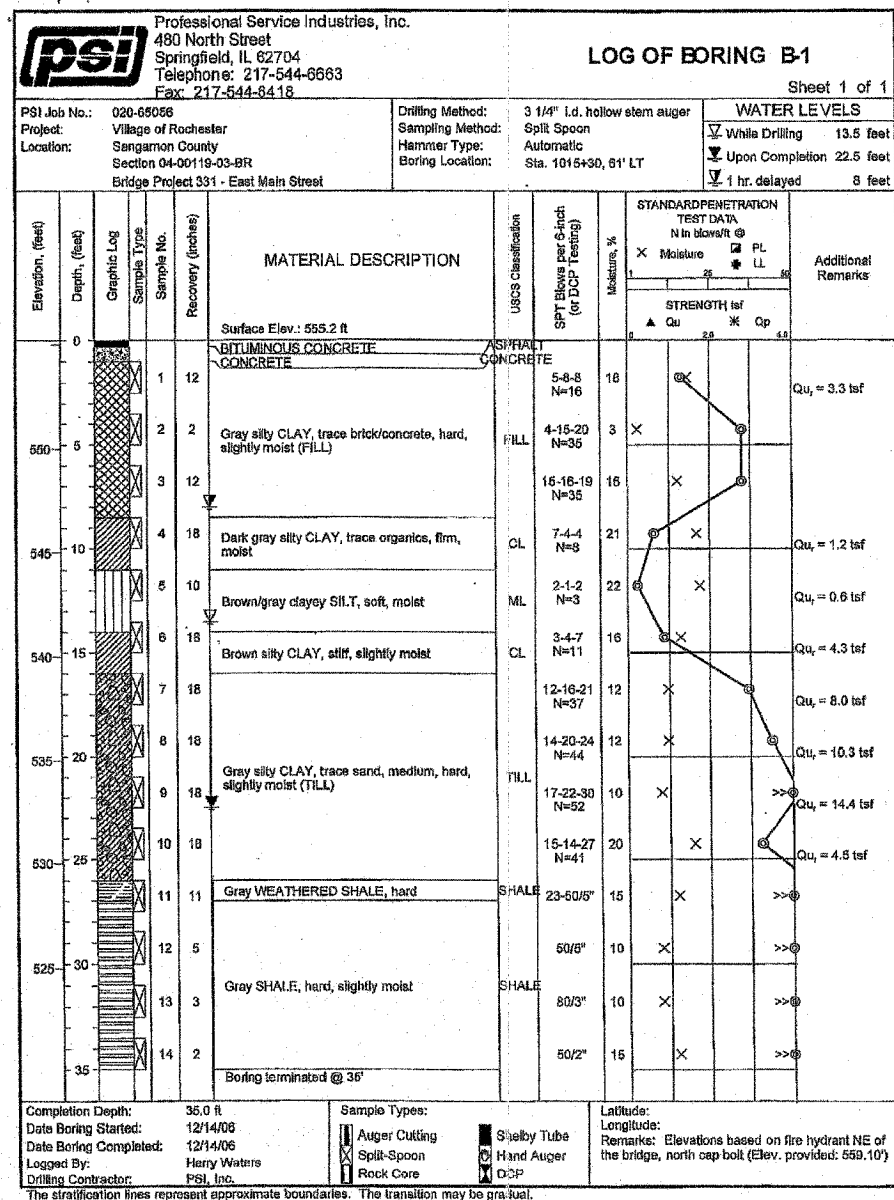
Item	Unit	Quantity
Steel Railing, Type TP-1 (Special)	Foot	40

REVISIONS	NAME	DATE

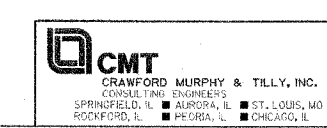
ILLINOIS DEPARTMENT OF TRANSPORTATION
STEEL RAILING, TYPE TP-1 (SPECIAL)
 F.A. ROUTE 556 (EAST MAIN STREET)
 EAST MAIN STREET OVER
 BLACK BRANCH
 SECTION 04-00119-03-BR STA. 1015+58.04
 STR. NO. 084-8010 - SANGAMON COUNTY
 SCALE: NONE DRAWN BY: GLD
 DATE: 10/23/07 CHECKED BY: WK

L:\Sangamon\04-00119-03-BR\Steel Railing TP-1.dgn 11/17/2007

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	20
STA.		TO STA.		
FED. ROAD DIST. NO. 5 ILLINOIS		FED. AID PROJECT		



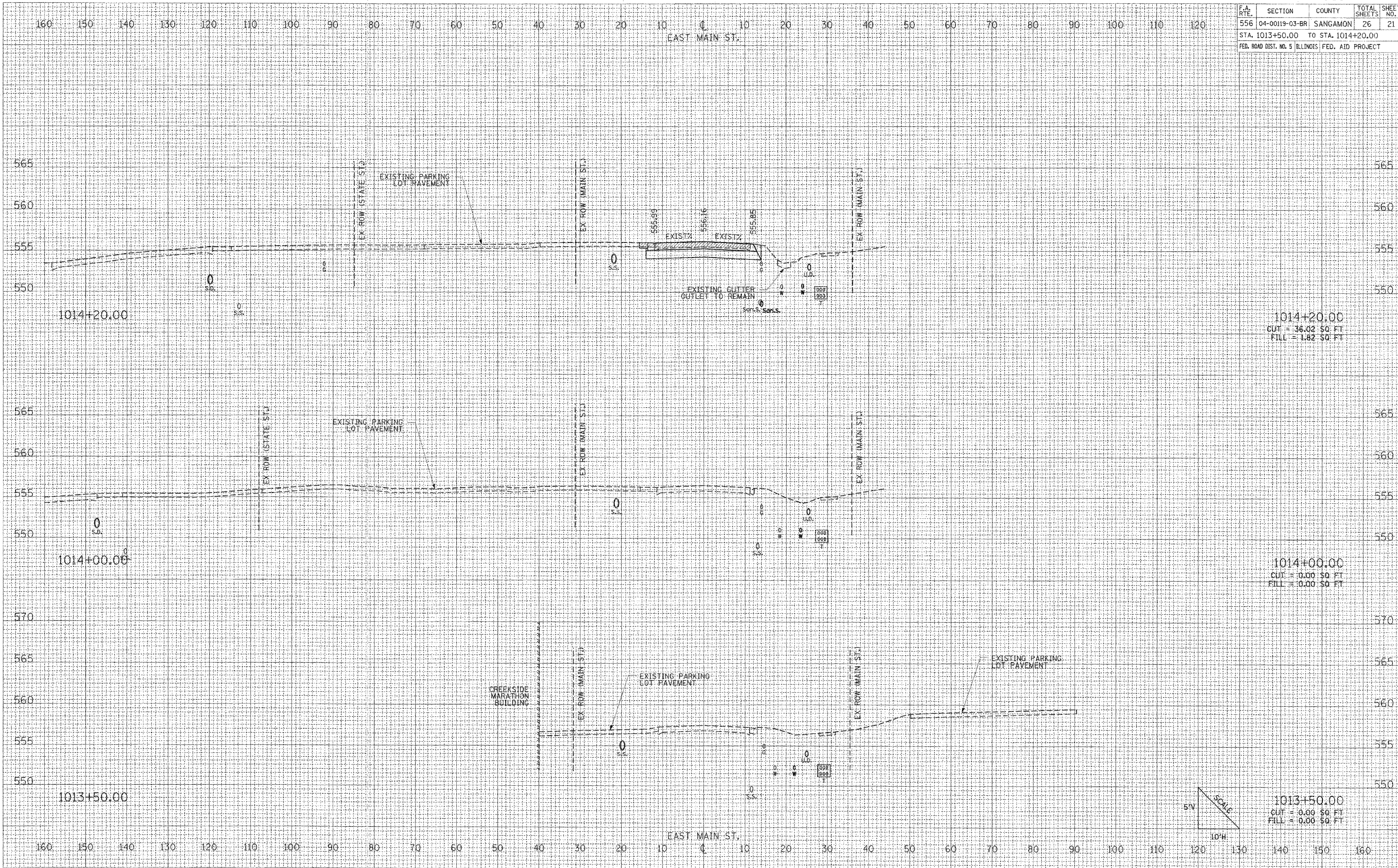
REVISIONS	
NAME	DATE



ILLINOIS DEPARTMENT OF TRANSPORTATION
BORING LOGS
F.A. ROUTE 556 (EAST MAIN STREET)
EAST MAIN STREET OVER
BLACK BRANCH
SECTION 04-00119-03-BR STA. 1015+58.04
STR. NO. 084-8010 - SANGAMON COUNTY
SCALE: NONE DRAWN BY: GLD
DATE: 10/23/07 CHECKED BY: WK

I:\Soc\com\erico\04022006\Dr\dw\sheet\BORING LOGS.DGN 11/7/2007

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR1	SANGAMON	26	21
STA. 1013+50.00 TO STA. 1014+20.00				
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				



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

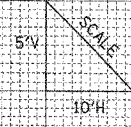
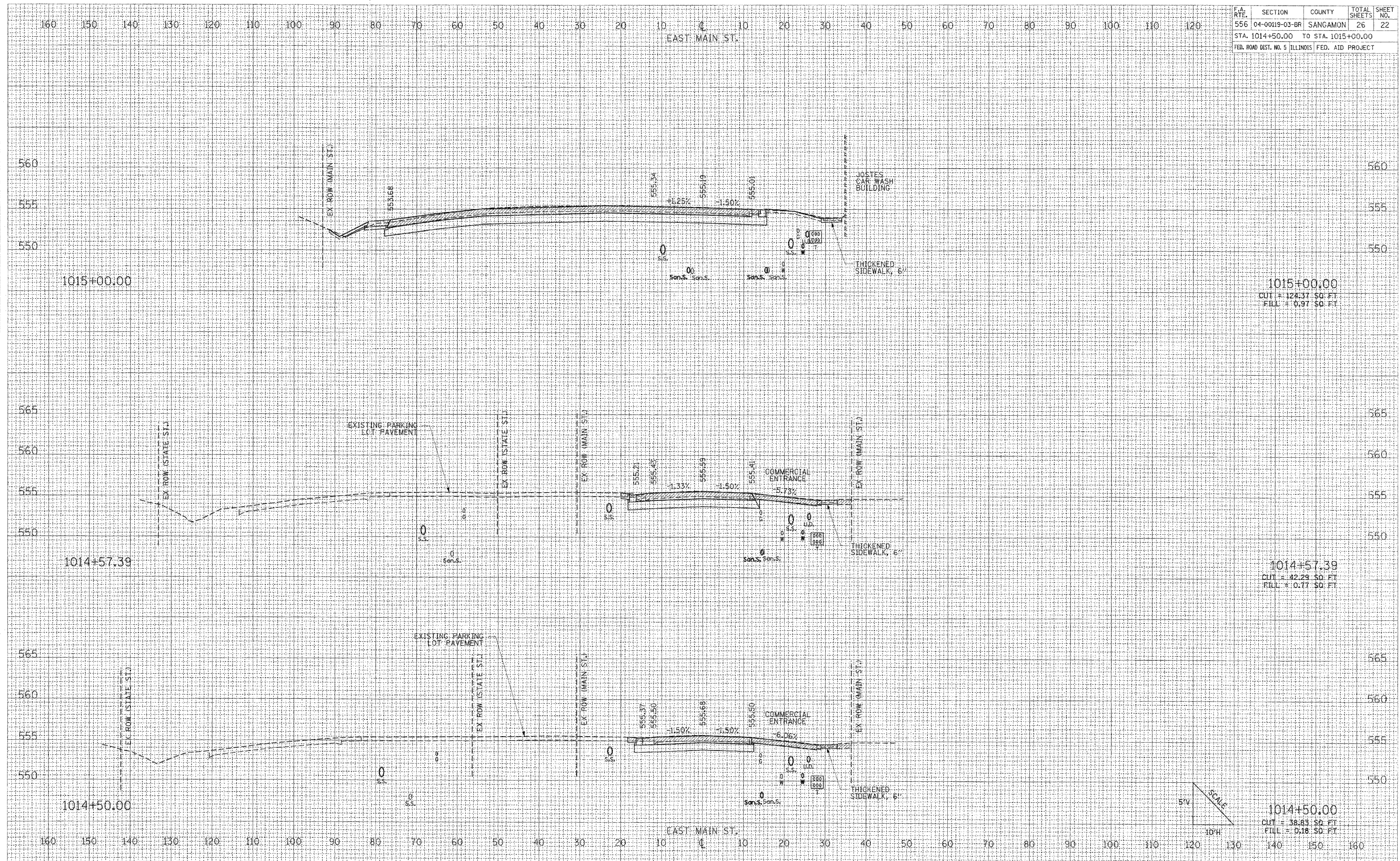
ORIGINAL SURVEY DATE
 SURVEYED BY
 CHECKED BY
 FILE NAME
 PLOT SCALE
 USER NAME

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	22
STA. 1014+50.00 TO STA. 1015+00.00				
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

DATE	BY

DATE	BY

PLOT DATE = 11/1/2007
 FILE NAME = L:\SangamonCo\04022801\0-raw\sheet\93448.dwg
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = Brad Downen



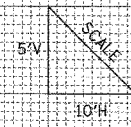
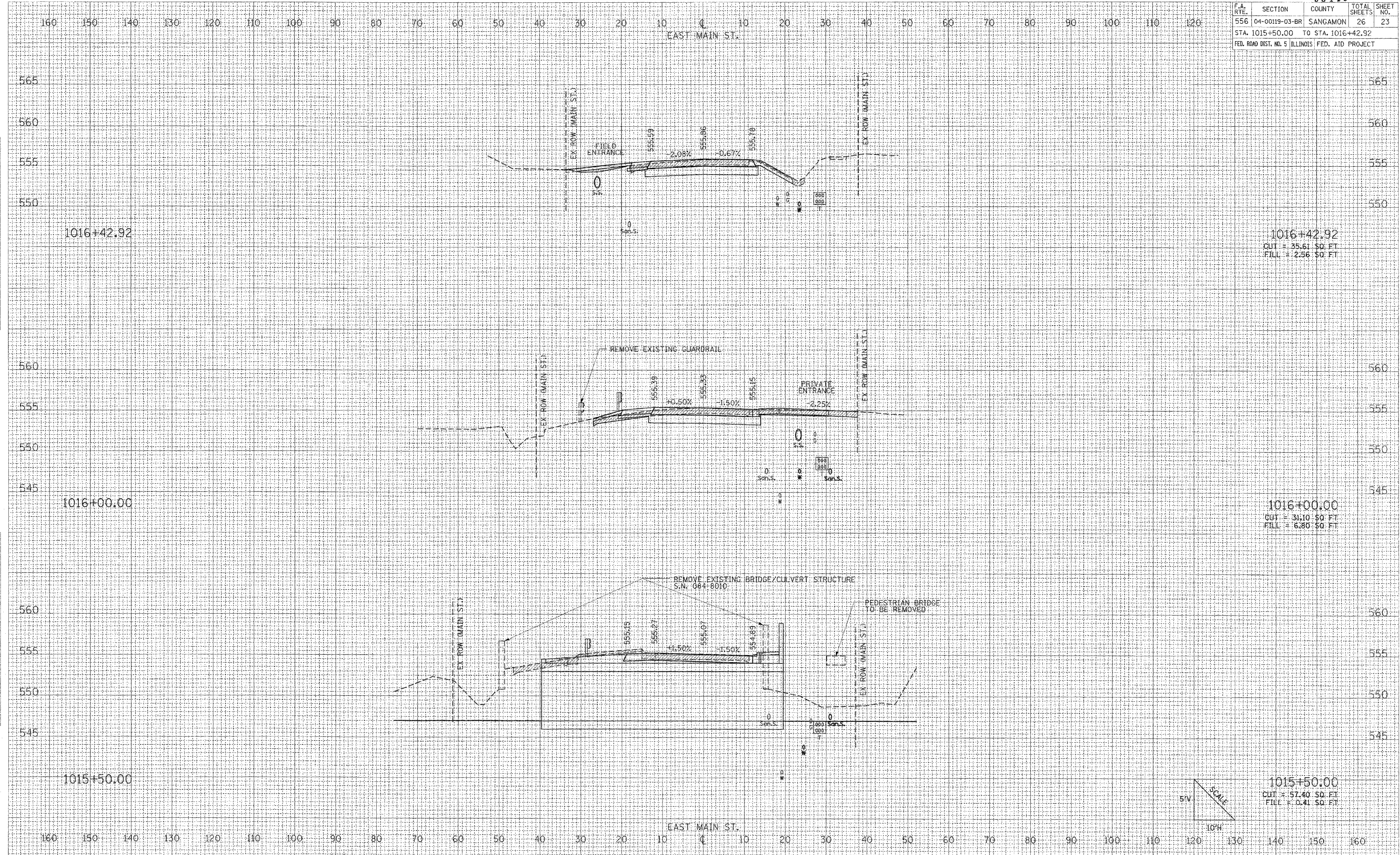
1014+50.00
 CUT = 38.83 SQ. FT.
 FILL = 0.18 SQ. FT.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	23
STA. 1015+50.00 TO STA. 1016+42.92				
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

FINAL SURVEY
 SURVEYED BY: _____
 DATE: _____
 CHECKED BY: _____
 DATE: _____
 AREA(S) CHECKED: _____

ORIGINAL SURVEY
 SURVEYED BY: _____
 DATE: _____
 CHECKED BY: _____
 DATE: _____
 AREA(S) CHECKED: _____

PLOT DATE = 11/1/2007
 FILE NAME = I:\Sangamon\Co-1842281A\Drawn\Avalued\1842281A.dwg
 PLOT SCALE = 10.0000 / IN.
 USER NAME = Brad Downen



1015+50.00
 CUT = 57.40 SQ. FT.
 FILL = 0.41 SQ. FT.

1016+00.00
 CUT = 31.10 SQ. FT.
 FILL = 6.80 SQ. FT.

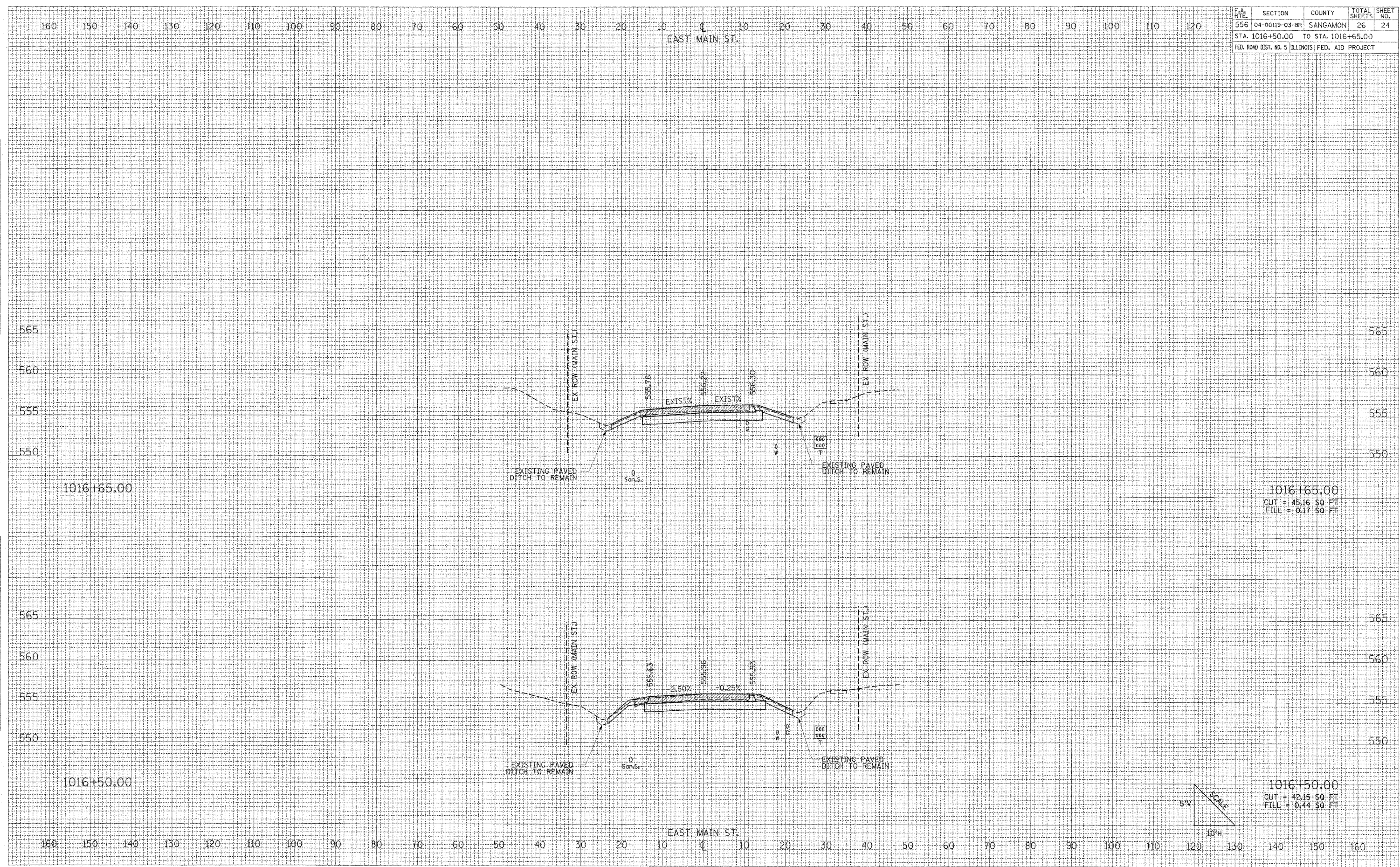
1016+42.92
 CUT = 35.61 SQ. FT.
 FILL = 2.56 SQ. FT.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	24
STA. 1016+50.00 TO STA. 1016+65.00				
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

DATE	
BY	
NO. CHECKED	
NO. DESIGNED	
NO. DRAWN	
NO. REVISION	
NO. APPROVED	
NO. CHECKED	
NO. DESIGNED	
NO. DRAWN	
NO. REVISION	
NO. APPROVED	

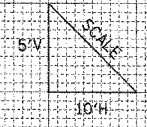
DATE	
BY	
NO. CHECKED	
NO. DESIGNED	
NO. DRAWN	
NO. REVISION	
NO. APPROVED	
NO. CHECKED	
NO. DESIGNED	
NO. DRAWN	
NO. REVISION	
NO. APPROVED	

PLOT DATE = 11/1/2007
 FILE NAME = I:\Sangamon\CA\142598\Drawings\Roadway\1016+50.00.dwg
 PLOT SCALE = 10.0000 / IN.
 USER NAME = Brad Doman



1016+65.00
 CUT = 45.16 50 FT
 FILL = 0.17 50 FT

1016+50.00
 CUT = 42.15 50 FT
 FILL = 0.44 50 FT

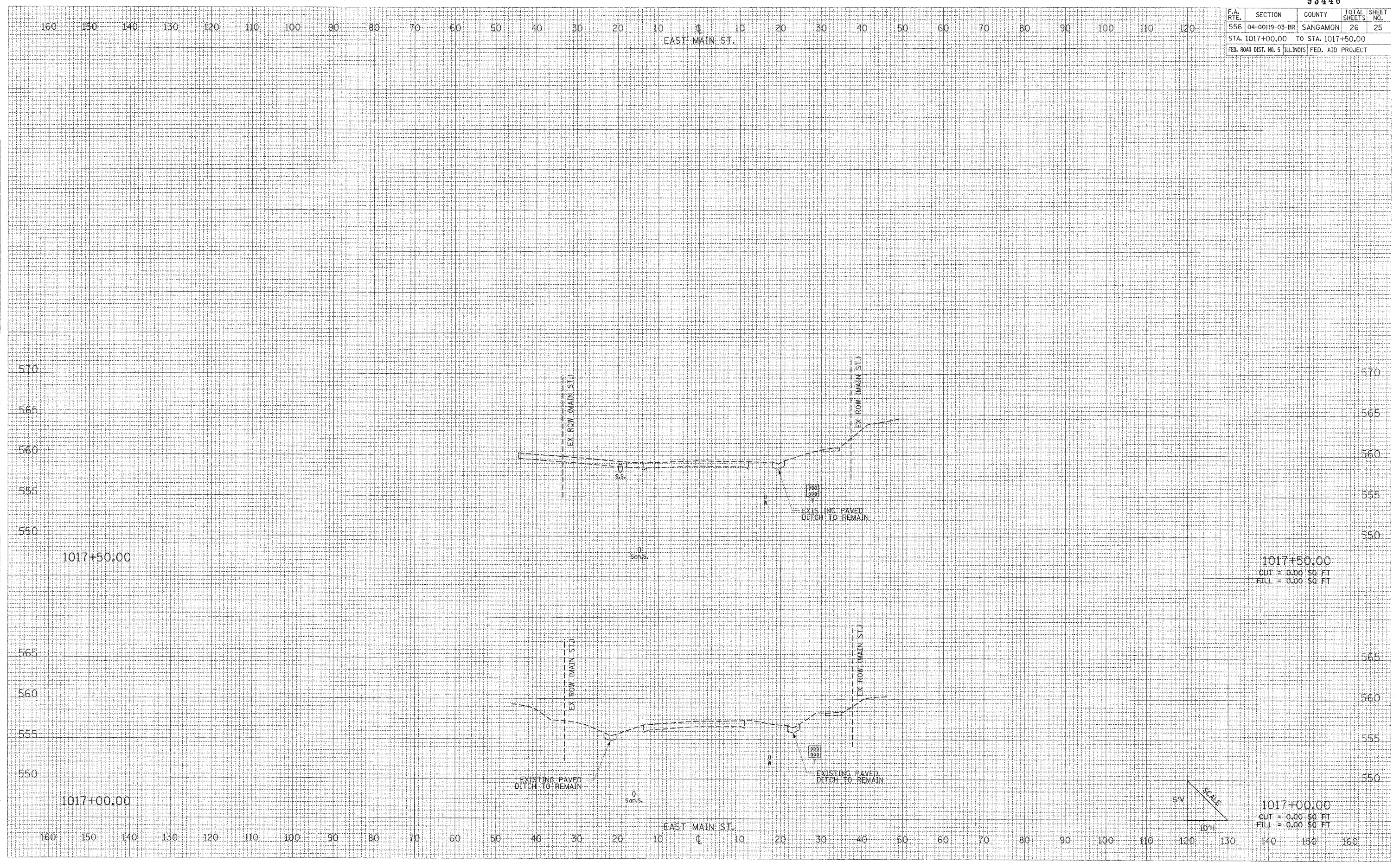


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	25
STA. 1017+00.00 TO STA. 1017+50.00				
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

FINAL	SURVEYED	BY	DATE
COURTY	TEMPLATE		
NOTE BOOK	AREAS		
NO.	AREAS CHECKED		

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

PLOT DATE = 11/1/2007
 FILE NAME = L:\Sangamon\CA\040209\1017+00.00-1017+50.00.dwg
 PLOT SCALE = 10.0000 / IN.
 USER NAME = Brad Dornan



CROSS SECTIONS: EAST MAIN ST.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
556	04-00119-03-BR	SANGAMON	26	26
STA. 4+00.40		TO STA. 4+25.00		
FED. ROAD DIST. NO. 5 ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NO.	

PLOT DATE = 11/1/2007
 FILE NAME = L:\Sangamon\Co. 0402501\0-n\shelby\10-11-07\10-11-07.dwg
 PLOT SCALE = 10.0000 / IN.
 USER NAME = Brad Bourne

