

11-9-12 LETTING ITEM 056

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 60P42		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

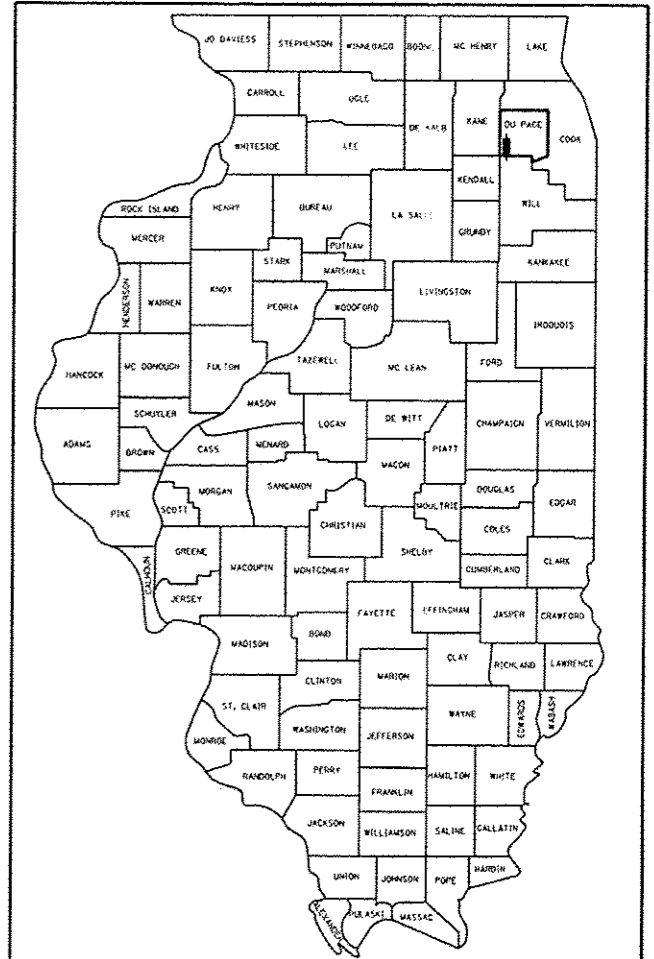
FAP ROUTE 338: IL ROUTE 59
SECTION 2011-036-1

PROJECT: NHF-0338(046)

ADVANCE WORK - RETAINING WALLS

DUPAGE COUNTY
C-91-539-11

D-91-014-10



LOCATION OF SECTION INDICATED THUS: - [rectangle] -

THE PROJECT IS LOCATED IN THE CITY OF NAPERVILLE (PRIMARY) AND THE CITY OF AURORA

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION

N/A

TRAFFIC DATA

	ADT 2009/2030	SPEED DESIGN/POSTED
IL ROUTE 59		
NEW YORK TO LIBERTY	49,700/68,000	45/40
LIBERTY TO N AURORA	49,700/79,000	45/40
N AURORA TO DIEHL	47,200/74,000	45/45

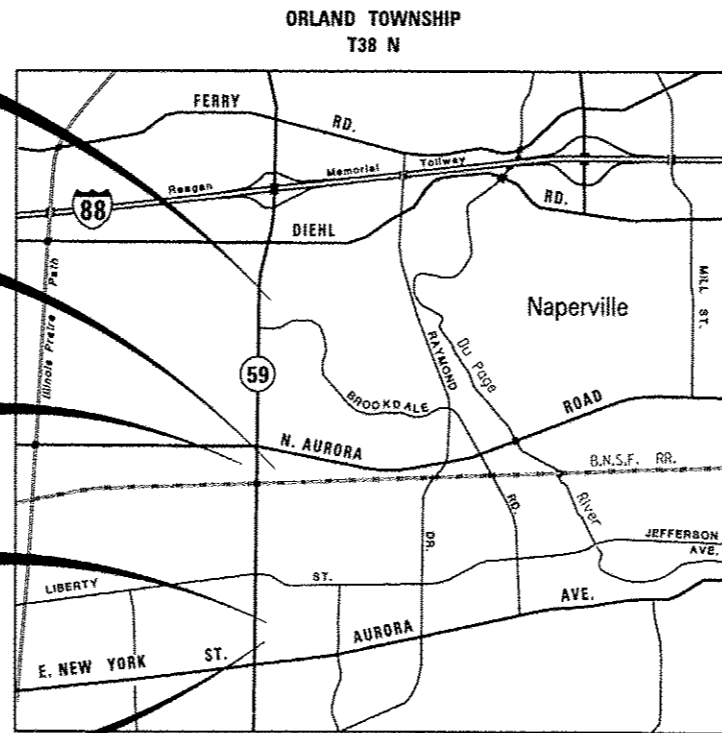
RETAINING WALL
SN 022-W052
STA. 4017 + 20 TO
STA. 4023 + 30
NET LENGTH = 610 FT.

RETAINING WALL
SN 022-W042
STA. 3911 + 30 TO
STA. 3913 + 30
NET LENGTH = 200 FT.

RETAINING WALL
SN 022-W046
STA. 3966 + 05 TO
STA. 3971 + 00
NET LENGTH = 495 FT.

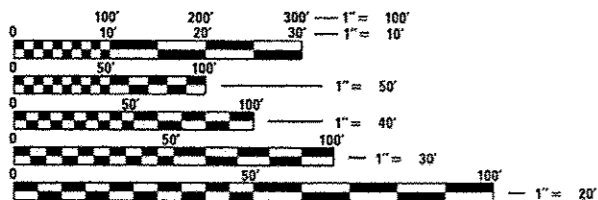
RETAINING WALL
SN 022-W044
STA. 3920 + 19 TO
STA. 3922 + 71
NET LENGTH = 252 FT.

RETAINING WALL
SN 022-W043
STA. 3913 + 82 TO
STA. 3915 + 43
NET LENGTH = 161 FT.



LOCATION MAP

NET LENGTH OF PROJECT = 1,820 FT. = 0.35 MILES



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

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

PROJECT MANAGER - BRIAN KUTTAB (847)705-4431
PROJECT ENGINEER - RON ZENAROSA (847)705-4212

CONTRACT NO. 60P42

	KNIGHT E/A, INC. Date: 05/04/12 John C. Murillo Expires: 11-30-13 Sheet No.: 1-31, 38-42, 50-53, 71-87, 101-110, 125-132, 196-234	
		ZROKA ENGINEERING, P.C. Date: 05-04-12 Deborah A. Zroka Expires: 11-30-12 Sheet No.: 32-37, 43-49, 54-70, 88-100, 111-124
		CITY OF NAPERVILLE Date: 5-4-12 Olga Geynitsman Expires: 11-30-13 Sheet No.: 133-195

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED MAY 4, 2012

Diane M. O'Keefe, P.E.
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 29, 2012
John D. Salamelli, P.E.
acting ENGINEER OF DESIGN AND ENVIRONMENT

June 29, 2012
William R. Freyer, Jr.
acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

Plans Prepared By:
KNIGHT
Engineers & Architects

221 North LaSalle Street
Suite 300
Chicago, IL 60601-1211
Phone: (312) 577-3300

INDEX OF SHEETS

IDOT HIGHWAY STANDARDS

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STANDARD NO.	TITLE
000001 - 00	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001 - 02	AREAS OF REINFORCEMENT BARS
280001 - 06	TEMPORARY EROSION CONTROL SYSTEMS
542301 - 03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542311 - 03	GRATING FOR CONCRETE FLARED END SECTION (FOR 24" (600MM) THRU 54" (1350 MM) PIPE)
602011 - 02	CATCH BASIN TYPE C
602401 - 03	MANHOLE TYPE A
602406 - 05	MANHOLE TYPE A 6' (1.8 M) DIAMETER
602411 - 03	MANHOLE TYPE A 7' (2.1 M) DIAMETER
604001 - 03	FRAME AND LIDS TYPE 1
604036 - 02	GRATE TYPE 8
606001 - 04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606201 - 02	TYPE B GUTTER (INLET, OUTLET, & ENTRANCE)
643001	SAND MODULE IMPACT ATTENUATORS
701101 - 02	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVMENT EDGE
701106 - 02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
701427	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS < 40 MPH
701601 - 07	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606 - 08	URBAN LANE CLSSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701 - 08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801 - 05	SIDEWALK, CORNER, OR CROSSWALK CLOSURE
701901 - 02	TRAFFIC CONTROL DEVICES
704001 - 07	TEMPORARY CONCRETE BARRIER
515001-03	NAME PLATES

A 515001-03 NAME PLATES

A Rev. 7-24-12

FILE NAME	USER NAME	DESIGNED	REVISOR	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS AND IDOT HIGHWAY STANDARDS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILE NO.		DRAWN	REVISOR			338	2011-036-1		234	2
		CHECKED	REVISOR			DUPAGE		CONTRACT NO. 60P42		
		DATE	REVISOR			SCALE: AS SHOWN		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.
						ILLINOIS FED. AID PROJECT				

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 OR 811 FOR FIELD LOCATIONS, BURIED ELECTRIC LINES, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITIES OF AURORA AND NAPERVILLE.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED EACH LOCATION.
- THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATIONS AND BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATIONS FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.
- THE CONTRACTOR SHALL TAKE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THIS CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, AS REQUIRED, PRIOR TO COMMENCING WITH CONSTRUCTION.
- POLLUTION CONTROL: THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH STATE REGULATIONS REGARDING AIR, WATER AND NOISE POLLUTION.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGHOUT THE CONSTRUCTION OF THIS PROJECT.

- THE CONTRACTOR WILL BE REQUIRED TO RELOCATE OR REMOVE AND REPLACE ALL ROAD SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND TO TEMPORARILY RESET ALL SUCH SIGNS DURING ALL STAGES OF CONSTRUCTION. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701601. ALL WORK INVOLVING SIGNS SHALL BE GOVERNED BY THE FOLLOWING:
 - A. SIGNS SHALL NOT BE REMOVED UNTIL NECESSITATED BY THE PROGRESS OF THE WORK.
 - B. EVERY SIGN REMOVED MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND VISIBLE TO THE TRAFFIC FOR WHICH IT IS INTENDED. ALL SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING.
 - C. ALL UNUSED SIGNS SHALL BE RETURNED TO APPROPRIATE GOVERNING BODY AS DIRECTED BY THE ENGINEER.

- THE RESIDENT ENGINEER SHALL CONTACT THE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TRAFFIC CONTROL DEVICES.
- NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET.
- FOR STORM SEWER CONSTRUCTED UNDER THE ROADWAY, BACKFILLING METHODS TWO AND THREE AUTHORIZED UNDER THE PROVISIONS OF ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED.

- INVERT ELEVATIONS FOR EXISTING PIPES HAVE BEEN SHOWN ON THE PLANS WHEN SURVEY INFORMATION WAS AVAILABLE. THE CONTRACTOR SHALL VERIFY THE INVERT ELEVATIONS FOR EXISTING PIPES IN THE FIELD AT THE TIME OF CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- THE DRAINAGE STAGES OF CONSTRUCTION ARE FOR THE USE OF MAINTAINING TEMPORARY DRAINAGE ONLY AND MAY BE USED BY THE CONTRACTOR, THOUGH ALL TEMPORARY DRAINAGE WILL BE PROVIDED AT THE DISCRETION OF THE CONTRACTOR.

16. TREES SHOWN IN PLANS TO BE IN CONFLICT WITH PROPOSED WORK, SHALL BE REMOVED IN - TREE REMOVAL CONTRACT 60P43. THE CONTRACTOR SHOULD COORDINATE WITH SUCH PERSONS SO NO CONFLICTING SCHEDULES OF WORK OCCUR. NO COMPENSATION WILL BE GIVEN FOR THE REMOVAL OF TREES, IN THIS CONTRACT.

- ALL DRAINAGE ITEMS INCLUDING: PIPES, CULVERTS, AND MANHOLES; THAT ARE SET IN PLACE WITH NO CONNECTING END WILL BE BLOCKED WITH MASONRY BEFORE BACKFILL IS PLACE OVERTOP, SO AS TO PREVENT FILL FROM ENTERING.
- TOPSOIL AND SEEDING ADJACENT TO PROPOSED WALLS ARE INTENDED TO REPLACE EXISTING VEGETATION DAMAGED DURING CONSTRUCTION. HOWEVER, EXISTING VEGETATION NOT DAMAGED MAY REMAIN IN PLACE. THIS WORK SHALL MEET THE APPROVAL OF THE ENGINEER.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SWEEPING AND CLEANING STREETS OF ANY DEBRIS AND MATERIAL THAT HAS ACCUMULATED AS A RESULT OF THE CONSTRUCTION ACTIVITY. A MECHANICAL SWEEPER, MECHANICALLY DRIVEN AND HANDWORK WITH A SHOVEL AND BROOM SHALL BE UTILIZED TO PROVIDE A CLEAN STREET FOR THE MOTORING PUBLIC. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.

- FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLAN.
- THE CONTRACTOR SHALL BE ADVISED THAT THERE IS ELECTRIC DUCT BANK WORK INCLUDED IN THE PLANS WHICH IS TO BE PREFORMED ON PRIVATE PROPERTY. THE CITY OF NAPERVILLE (DPU - ELECTRIC) IS SECURING PERMANENT UTILITY EASEMENTS FOR THIS WORK. THE CONTRACTOR WILL BE PROVIDED WITH A COPY OF THESE EASEMENTS AT THE PRECONSTRUCTION MEETING.
- THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE CONTRACT BUT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE THIS WORK WITH THE CITY OF NAPERVILLE (DPU - ELECTRIC).

8000 FEET OF 6 - WAY 6 - 6" PVC DUCT BANK 2 HIGH BY 3 WIDE
6000 FEET OF 6 - WAY DIRECTIONAL DRILL 6 - 6" HDPE

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS AT Ndes
TEMPORARY SHOULDER	
HMA SURFACE COURSE, MIX "D", NSO (IL-9.5 mm); 2"	4% @ 50 Gyr.
DRIVEWAYS	
HMA SURFACE COURSE, MIX "D", NSO (IL-9.5 mm); 2"	4% @ 50 Gyr.
HMA BASE COURSE (HMA BINDER IL-19 mm), CE - 4", PE - VARIES	4% @ 50 Gyr.
PATCHING	
CLASS D PATCHES (HMA BINDER IL-19mm)	4% @ 70 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE AC TYPE FOR POLYMERIZED MIXES SHALL BE "SBS / SBR PG 76-22" AND FOR NON POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

EROSION CONTROL GENERAL NOTES

1. THE CONTRACTOR SHALL SUBMIT A WRITTEN CONSTRUCTION PLAN FOR THE PROPOSED STORM SEWER WORK TO THE ENGINEER FOR APPROVAL. THE CONSTRUCTION PLAN SHALL INCLUDE MEASURES TO PREVENT SEDIMENTATION FROM ENTERING THE STORM SEWER SYSTEM DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL NOT BEGIN ANY STORM SEWER WORK UNTIL THE ENGINEER HAS PROVIDED WRITTEN APPROVAL OF THE CONTRACTOR'S WORK PLAN. THE COST ASSOCIATED WITH DEVELOPING THE CONSTRUCTION PLAN WILL NOT BE PAID FOR SEPARATELY, BUT IS INCLUDED IN THE CONTRACT.

2. DURING CONSTRUCTION OPERATIONS, WHENEVER LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC., SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THE CONTRACTORS FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIAL CREATED AS A RESULT THERE OF.

COMMITMENTS

- NONE THIS CONTRACT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	LOSEL, 01	LOSEL, 01	LOSEL, 02	LOSEL, 03	LOSEL, 04	LOSEL, 05	OTPOL, 01		
				CONSTRUCTION CODE FUNDS								
				80% FED 20% STATE ROADWAY	80% FED 20% STATE RETAINING WALL SN 022-W043	80% FED 20% STATE RETAINING WALL SN 022-W044	80% FED 20% STATE RETAINING WALL SN 022-W046	80% FED 20% STATE RETAINING WALL SN 022-W042	80% FED 20% STATE RETAINING WALL SN 022-W052	100% CITY OF NAPERVILLE ELECTRIC DUCT BANK		
0004 URBAN	0040 URBAN	0040 URBAN	0040 URBAN	0040 URBAN	0040 URBAN	0043 URBAN						
20101200	TREE ROOT PRUNING	EACH	10							10		
20200100	EARTH EXCAVATION	CU YD	560	560								
20400800	FURNISHED EXCAVATION	CU YD	3785	3785								
20700220	POROUS GRANULAR EMBANKMENT	CU YD	56	56								
20800150	TRENCH BACKFILL	CU YD	1556	1556								
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	2280	2280								
25000210	SEEDING, CLASS 2A	ACRE	2.00	2.00								
25100115	MULCH, METHOD 2	ACRE	4.00	4.00								
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1230	1230								
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	196	196								
28000305	TEMPORARY DITCH CHECKS	FOOT	30	30								
28000400	PERIMETER EROSION BARRIER	FOOT	2186	2186								
28000510	INLET FILTERS	EACH	39	39								
35501300	HOT-MIX ASPHALT BASE COURSE, 4"	SQ YD	37	37								
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	50	5						45		

X SPECIALTY ITEM

FILE NAME	DIGER NAME / NUMBER	DESIGNED <i>NAV</i>	REVISED <i>06-04-12</i>	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILE NO.	PLANT SCALE - AS SHOWN	DRAWN <i>KE'S</i>	REVISED					338	2011-036-I	DUPAGE	234	4
PLANT DATE - 10/11/11	PLANT DATE - 10/11/11	CHECKED <i>PJO</i>	REVISED					CONTRACT NO. 60P42			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE FUNDS								
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	100% CITY OF NAPERVILLE		
				ROADWAY	RETAINING WALL SN 022-W043	RETAINING WALL SN 022-W044	RETAINING WALL SN 022-W046	RETAINING WALL SN 022-W042	RETAINING WALL SN 022-W052	ELECTRIC DUCT BANK		
				0004 URBAN	0040 URBAN	0040 URBAN	0040 URBAN	0040 URBAN	0040 URBAN	0043 URBAN		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	995									995
44000100	PAVEMENT REMOVAL	SQ YD	493	43								450
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	45									45
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	296	82								214
44000600	SIDEWALK REMOVAL	SQ FT	995									995
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	20									20
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	140									140
50200100	STRUCTURE EXCAVATION	CU YD	1849		46	291	897	226	389			
50300225	CONCRETE STRUCTURES	CU YD	649.8		47.9	107.7	234.9	45.2	214.1			
50300285	FORM LINER TEXTURED SURFACE	SQ FT	8681			573	3264	339	4505			
50300300	PROTECTIVE COAT	SQ YD	1116		165	65	593	112	181			
50500505	STUD SHEAR CONNECTORS	EACH	1328				707	114	507			
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	82820		7510	8690	29710	5190	31720			
50901720	BICYCLE RAILING	FOOT	622						622			

X SPECIALTY ITEM

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE	DESIGNED BY	DATE	REVISED					338	2011-036-1	DUPAGE	234	5
PLLOT SCALE	CHECKED	DATE	REVISED		SCALE: AS SHOWN SHEET NO. 2 OF 10 SHEETS STA. TO STA.			CONTRACT NO. 60P42		ILLINOIS FED. AID PROJECT		
PLLOT DATE	DATE	DATE	DATE									

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE FUNDS							
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	100% CITY OF NAPERVILLE	
				ROADWAY 0004 URBAN	RETAINING WALL SN 022-W043 0040 URBAN	RETAINING WALL SN 022-W044 0040 URBAN	RETAINING WALL SN 022-W046 0040 URBAN	RETAINING WALL SN 022-W042 0040 URBAN	RETAINING WALL SN 022-W052 0040 URBAN	ELECTRIC DUCT BANK 0043 URBAN	
50901750	PARAPET RAILING	FOOT	410		159	251					
51500100	NAME PLATES	EACH	5		1	1	1	1	1		
54010905	PRECAST CONCRETE BOX CULVERTS 9' X 5'	FOOT	24	24							
5421C030	PIPE CULVERTS, CLASS C, TYPE 1 30" (TEMPORARY)	FOOT	432	432							
5422C030	PIPE CULVERTS, CLASS C, TYPE 2 30" (TEMPORARY)	FOOT	68	68							
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	12	12							
550A0190	STORM SEWERS, CLASS A, TYPE 1 48"	FOOT	435	435							
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	8	8							
550A0480	STORM SEWERS, CLASS A, TYPE 2 48"	FOOT	102	102							
550A0520	STORM SEWERS, CLASS A, TYPE 2 72"	FOOT	99	99							
550B0050	STORM SEWERS, CLASS B, TYPE 1 12"	FOOT	154	154							
55100500	STORM SEWER REMOVAL 12"	FOOT	185	185							
55101400	STORM SEWER REMOVAL 30"	FOOT	566	566							
55102300	STORM SEWER REMOVAL 72"	FOOT	104	104							

X SPECIALTY ITEM

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PROJECT		DRAWN	REVISED			338	2011-036-1	DUPAGE	234	6	
		CHECKED	REVISED			CONTRACT NO. 60P42					
		DATE	REVISED			ILLINOIS FED. AID PROJECT					

SCALE: AS SHOWN SHEET NO. 3 OF 10 SHEETS STA. TO STA.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE FUNDS						
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	100% CITY OF NAPERVILLE
				ROADWAY 0004 URBAN	RETAINING WALL SN 022-W043 URBAN	RETAINING WALL SN 022-W044 URBAN	RETAINING WALL SN 022-W046 URBAN	RETAINING WALL SN 022-W042 URBAN	RETAINING WALL SN 022-W052 URBAN	ELECTRIC DUCT BANK 0043 URBAN
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	781			68	368	63	282	
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	2	2						
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	1	1						
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	3	3						
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1						
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2						
60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1						
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	4	4						
60500040	REMOVING MANHOLES	EACH	4	4						
60500080	REMOVING CATCH BASINS TO MAINTAIN FLOW	EACH	1	1						
60602800	CONCRETE GUTTER, TYPE B	FOOT	583	583						
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	294	80						214
X 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	1						
X 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1						

X SPECIALTY ITEM

FILE NAME	USER NAME : BUDEN*	DESIGNED NAV	REVISED 06-04-12	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
APPLIC	DESIGNED	DRAWN	REVISED			338	2011-036-1	DUPAGE	234	7	
	CHECKED PJO	DATE 05-11-12	REVISED			CONTRACT NO. 60P42					
	PLANT SCALE - AS SHOWN	PLANT DATE - 04/11/12				ILLINOIS FED. AID PROJECT					
SCALE: AS SHOWN						SHEET NO. 4 OF 10 SHEETS		STA.		TO STA.	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE FUNDS							
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	100% CITY OF NAPERVILLE	
				ROADWAY 0004 URBAN	RETAINING WALL SN 022-W043 0040 URBAN	RETAINING WALL SN 022-W044 0040 URBAN	RETAINING WALL SN 022-W046 0040 URBAN	RETAINING WALL SN 022-W042 0040 URBAN	RETAINING WALL SN 022-W052 0040 URBAN	ELECTRIC DUCT BANK 0043 URBAN	
63200310	GUARDRAIL REMOVAL	FOOT	92	92							
X 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	250	250	△						
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	11	11							
X 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1	△						
67100100	MOBILIZATION	L SUM	1	1							
X 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2	△						
70400100	TEMPORARY CONCRETE BARRIER	FOOT	750	750							
X 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	648								648
X 78200530	BARRIER WALL MARKERS, TYPE C	EACH	60	60							
X X0324455	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU FT	20,763	△			14,953	△	1605	12205	
X X0324456	DRILLING AND SETTING SOLDIER PILES (IN ROCK)	CU FT	1618	△			1618	△			
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	86				86				
X2080250	TRENCH BACKFILL (SPECIAL)	CU YD	770	△						△	770
X2500920	SEEDING CLASS 1A, (SPECIAL)	ACRE	1.10								1.10
X3550015	HOT-MIX ASPHALT BASE COURSE, (VARIABLE DEPTH)	TON	140								140
X4810100	TEMPORARY SHOULDERS	SO YD	604	604							
X6022110	MANHOLES, TYPE A, 10' -DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2							
X6028050	TEMPORARY MANHOLE	EACH	4	4							

X SPECIALTY ITEM

△ Rev. 7-24-12

FILE NAME	DRAWN	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		SUMMARY OF QUANTITIES		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6028050	RES	NAV	06-04-12					338	2011-036-1	DUPAGE	234	8
DATE	CHECKED	DATE	REVISED			SCALE: AS SHOWN SHEET NO. 5 OF 10 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT CONTRACT NO. 60P42				
05-11-12	PJD	05-11-12										

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE FUNDS							
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	100% CITY OF NAPERVILLE	
				ROADWAY 0004 URBAN	RETAINING WALL SN 022-W043 URBAN	RETAINING WALL SN 022-W044 URBAN	RETAINING WALL SN 022-W046 URBAN	RETAINING WALL SN 022-W042 URBAN	RETAINING WALL SN 022-W052 URBAN	ELECTRIC DUCT BANK 0043 URBAN	
X6640525	CHAIN LINK FENCE, 4' ATTACHED TO STRUCTURE	FOOT	594				594				
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.85							0.15
X XX005602	HAND DIGGING 0 FT TO 5 FT IN PAVEMENT	CU YD	25								25
X XX005603	HAND DIGGING 5 FT TO 20 FT IN PAVEMENT	CU YD	25								25
X XX005604	HAND DIGGING 0 FT TO 5 FT IN UNPAVED AREAS	CU YD	25								25
X XX005605	HAND DIGGING 5 FT TO 20 FT IN UNPAVED AREAS	CU YD	25								25
X XX005606	MACHINE AIDED DIGGING 0 FT TO 5 FT IN PAVEMENT	CU YD	50								50
X XX005608	MACHINE AIDED DIGGING 0 FT TO 5 FT IN UNPAVED AREAS	CU YD	50								50
X XX005987	MACHINE AIDED DIGGING 5 FT TO 20 FT IN PAVEMENT	CU YD	50								50
X XX005989	MACHINE AIDED DIGGING 5 FT TO 20 FT IN UNPAVED AREAS	CU YD	50								50
X Z0007118	UNTREATED TIMBER LAGGING	SQ FT	8332				4368	743	3221		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.6							0.4
Δ Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	4	4							
X Z0026404	FURNISHING SOLDIER PILES (W SECTION)	FOOT	5035				2400	480	2155		

X SPECIALTY ITEM

Δ 100% STATE (DTAOL, 01, 0004)

FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RYE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
SCALE	DRAWN	REVISED	REVISED			338	2011-036-1	DUPAGE	234	9	
PLAT SCALE	CHECKED	REVISED	REVISED			CONTRACT NO. 60P42					
PLAT DATE	DATE	REVISED	REVISED			ILLINOIS FED. AID PROJECT					

SCALE: AS SHOWN SHEET NO. 6 OF 10 SHEETS STA. TO STA.

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE							
				FUNDS							
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	100% CITY OF NAPERVILLE	
				ROADWAY 0004 URBAN	RETAINING WALL SN 022-W043 0040 URBAN	RETAINING WALL SN 022-W044 0040 URBAN	RETAINING WALL SN 022-W046 0040 URBAN	RETAINING WALL SN 022-W042 0040 URBAN	RETAINING WALL SN 022-W052 0040 URBAN	ELECTRIC DUCT BANK 0043 URBAN	
Z0030240	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2	EACH	1	1							
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	103	103							
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	1860			278	594	343	645		
X Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1							
X X6020385	MANHOLES TYPE G DOUBLE OPENING, <i>INSTALL ONLY</i>	EACH	3								3
X X6020375	MANHOLES TYPE E DOUBLE OPENING, <i>INSTALL ONLY</i>	EACH	3								3
X X6020355	MANHOLES TYPE A DOUBLE OPENING, <i>INSTALL ONLY</i>	EACH	1								1
X X6020335	MANHOLES TYPE G SINGLE OPENING 4211M921, <i>INSTALL ONLY</i>	EACH	1								1
X X6020399	CONNECTION TO EXISTING MANHOLE	EACH	3								3
X	LANDSCAPE RESTORATION (DPU-ELECTRIC)	L SUM	1								1
X	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1								1
X X0327436	2 - WAY 2 - 6" PVC DUCT BANK 1 HIGH BY 2 WIDE	FOOT	170								170
X X0327437	3 - WAY 3 - 6" PVC DUCT BANK 1HIGH BY 3 WIDE	FOOT	285								285
X X0327438	4 - WAY 4 - 6" PVC DUCT BANK 2 HIGH BY 2 WIDE	FOOT	100								100

X SPECIALTY ITEM

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE FUNDS							
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	100% CITY OF NAPERVILLE	
				ROADWAY	RETAINING WALL SN 022-W043	RETAINING WALL SN 022-W044	RETAINING WALL SN 022-W046	RETAINING WALL SN 022-W042	RETAINING WALL SN 022-W052	ELECTRIC DUCT BANK	
				0004	0040	0040	0040	0040	0040	0043	
				URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	URBAN	
X X0327439	6 - WAY 6 - 6" PVC DUCT BANK 2 HIGH BY 3 WIDE	FOOT	295								295
X X0327440	8 - WAY 8 - 6" PVC DUCT BANK 3 HIGH BY 3 WIDE	FOOT	30								30
X X0327441	9 - WAY 9 - 6" PVC DUCT BANK 3 HIGH BY 3 WIDE	FOOT	200								200
X X0327442	12 - WAY 12 - 6" PVC DUCT BANK 4 HIGH BY 3 WIDE	FOOT	500								500
X X0327443	9 - WAY DIRECTIONAL DRILL 9 - 6" HDPE WITH CULVERT	FOOT	210								210
X X0327444	9 - WAY DIRECTIONAL DRILL 9 - 6" HDPE WITHOUT CULVERT	FOOT	210								210
X X0327445	6 - WAY DIRECTIONAL DRILL 6 - 6" HDPE	FOOT	70								70
X X5030221	CONCRETE ENCASEMENT	CU YD	420								420
X X5030223	FA - 2 ENCASEMENT	CU YD	390								390
X X0327446	SWITCH GEAR VAULT , INSTALL ONLY	EACH	4								4
X X0327447	FUSE MODULE VAULT , INSTALL ONLY	EACH	1								1
X X0327448	TRANSFORMER SINGLE PHASE VAULTS , INSTALL ONLY	EACH	1								1
X X0327449	SECONDARY PEDESTALS , INSTALL ONLY	EACH	1								1
X XX007055	HANDHOLE - DEH6	EACH	1								1

X SPECIALTY ITEM

Rev. 7-24-12

FILE NAME	USER NAME - USER	DESIGNED <i>NAV</i>	REVISED <i>06-04-12</i>	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PROJECT		DRAWN <i>RES</i>	REVISED			338	2011-036-1	DUPAGE	234	11
PROJECT SCALE - 1"=40'		CHECKED <i>PJD</i>	REVISED			SCALE: AS SHOWN SHEET NO. 8 OF 10 SHEETS STA. TO STA.		CONTRACT NO. 60P42		
PROJECT DATE - 10/11/12		DATE <i>05-11-12</i>	REVISED					ILLINOIS FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE FUNDS								
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	100% CITY OF NAPERVILLE		
				ROADWAY	RETAINING WALL SN 022-W043	RETAINING WALL SN 022-W044	RETAINING WALL SN 022-W046	RETAINING WALL SN 022-W042	RETAINING WALL SN 022-W052	ELECTRIC DUCT BANK		
				0004	0040	0040	0040	0040	0040	0043		
X XX005612	HANDHOLE - DEH8	EACH	1									1
X X0327450	CONNECTION TO EXISTING CONCRETE TRANSFORMER FOUNDATION	EACH	3									3
X X0327451	CONNECTION TO EXISTING SWITCH GEARS	EACH	3									3
X X0327463	3/C-1000MCM CABLE 34KV CU. TRIPLEXED SPLICE CONNECTIONS	FOOT	600									600
X X0327464	SINGLE CONDUCTOR 1000MCM CABLE 34KV CU. SPLICE CONNECTIONS	FOOT	750									750
X X0327465	REMOVE - 3/C-1000MCM CABLE 34KV CU. TRIPLEXED CABLES AND SPLICES	FOOT	150									150
X X0327452	ROD AND MANDREL	FOOT	25500									25500
	VIDEO TAPE	EACH	2									2
	ADDITIONAL GROUND ROD INSTALLATION	EACH	5									5
	TREE ROOT PRUNING (SPECIAL)	EACH	10									10
X X0327453	COUNTERPOISE, UNPAVED	FOOT	600									600
X X0327454	COUNTERPOISE, PAVED	FOOT	600									600
X X0327455	MANHOLE TOP SECTION REPLACEMENT 4223M111	EACH	1									1
X X0327456	MANHOLE TOP SECTION REPLACEMENT 4274M291	EACH	1									1

X SPECIALTY ITEM

2012 01 10

CONSTRUCTION CODE FUNDS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	100% CITY OF NAPERVILLE
				ROADWAY 0004 URBAN	RETAINING WALL SN 022-W043 0040 URBAN	RETAINING WALL SN 022-W044 0040 URBAN	RETAINING WALL SN 022-W046 0040 URBAN	RETAINING WALL SN 022-W042 0040 URBAN	RETAINING WALL SN 022-W052 0040 URBAN	ELECTRIC DUCT BANK 0043 URBAN

X	X0327457	MANHOLE TOP SECTION REPLACEMENT 4212M961	EACH	1							1
X	X0327458	MANHOLE REMOVAL	EACH	1							1
X	X0327459	POLE AND CABLE REMOVAL	EACH	40							40
X	X0327460	POLE BUTT REMOVAL	EACH	20							20
X	X0327461	3 PHASE TRANSFORMER VAULT ASSEMBLY	EACH	2							2
X	X0327482	12KV CABLE, INSTALL ONLY	FOOT								
X	X0327476	10-WAY-10-6" PVC JOINT DUCT BANK - 4 HIGH BY 3 WIDE	FOOT	100							100
X	X0327477	12-WAY-12-6" PVC JOINT DUCT BANK - 4 HIGH BY 3 WIDE	FOOT	1770							1770
X	X0327478	14-WAY-14-6" PVC JOINT DUCT BANK - 5 HIGH BY 3 WIDE	FOOT	400							400
X	X0327479	2-WAY DIRECTIONAL DRILL 2-6" HOPE	FOOT	195							195
X	X0327480	12-WAY JOINT DIRECTIONAL DRILL - 6" HOPE	FOOT	575							575
X	ADDITIONAL GROUND ROD INSTALLATION		EACH	5							5
⊙	Z0076600	TRAINEES	HOUR	1000	1000						
⊙	Z0076604	TRAINEES - TRAINING GRADUATE PROGRAM	HOUR	1000	1000						



X SPECIALTY ITEM
⊙ 0042 (LOSEL, 01)

Rev. 7-24-12

Rev.

FILE NAME:	DESIGNED NAV	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE. 338	SECTION 2011-036-1	COUNTY DUPAGE	TOTAL SHEETS 234	SHEET NO. 13
DRAWN RES	CHECKED PJO	DATE 05-11-12	SCALE: AS SHOWN	SHEET NO. 10 OF 10 SHEETS	STA. TO STA.	CONTRACT NO. 60P42 ILLINOIS FED. AID PROJECT			

EARTHWORK					
RETAINING WALL	QUANTITY (CU YD)				
	EXCAVATION	EMBANKMENT	EXCAVATION USED FOR EMBANKMENT (15% S.F.)	FURNISHED EXCAVATION	TOP SOIL EXCAVATION & PLACEMENT
022-W043	0.0	0.0	0.0	0.0	0.0
022-W044	0.0	440.6	0.0	-440.6	171.2
022-W046	503.0	1396.4	427.5	-968.9	1095.8
022-W042	49.6	0.0	42.2	42.2	63.4
022-W052	0.0	4257.1	0.0	-4257.1	945.1
STRUCTURAL EXCAVATION	1850.0	-	1572.5	-	-
PROJECT TOTAL	552.6	6094.1	2042.2	4051.9	2275.5
SAY	560	6100	2040	4060	2280

NOTE: STRUCTURAL EXCAVATION QTY. IS ONLY USED FOR FURNISHED EXCAVATION CALCULATION.

TRENCH BACKFILL					
RETAINING WALL	PIPE #	PIPE DIA. (IN)	PIPE CULVERT OR STORM SEWER	PIPE LENGTH (FT)	TOTAL TBF (CU YD)
022-W043	101	12	SS	7	6.4
	102	12	SS	147	147.1
022-W046	200	30	P CUL (TEMP)	14	11.5
	201	30	P CUL (TEMP)	149	108.6
	202	30	P CUL (TEMP)	269	202.0
	203	30	P CUL (TEMP)	28	24.8
	211	48	SS	158	115.8
	212	48	SS	277	291.4
	213	48	SS	102	142.8
	214	30	P CUL (TEMP)	34	43.9
	215	12	SS	8	6.3
	220	12	SS	26	8.9
022-W052	400	72	SS	20	55.1
	401	72	SS	59	264.7
	401a	72	SS	13	56.9
	402	24	SS	6	4.2
	403	24	SS	6	4.2
	404	30	P CUL (TEMP)	6	10.6
	CUL	9x5'	CUL	21	50.6
PROJECT TOTAL					1,555.9
SAY					1,556

HOT-MIX ASPHALT BASE COURSE, 4"				
RETAINING WALL	FROM STA	TO STA	LT/RT	QUANTITY (SQ YD)
022-W052	4022+49	4023+21	RT	37
PROJECT TOTAL				37

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50						
RETAINING WALL	FROM STA	TO STA	LT/RT	AREA (SQ YD)	DEPTH (IN)	QUANTITY (TON)
022-W052	4022+49	4023+21	RT	37	2	5
Naperville Electric Duct Bank Work	-	-	-	-	-	45
PROJECT TOTAL						50

MULCH, METHOD 2				
RETAINING WALL	FROM	TO	LT/RT	QUANTITY (ACRE)
022-W043	3910+57	3913+81	LT	1.44
022-W044	3913+42	3915+66	RT	0.16
022-W046	3920+00	3922+99	RT	0.36
022-W042	3910+57	3913+81	LT	0.28
022-W052	4017+20	4023+28	RT	1.42
PROJECT TOTAL				3.66
SAY				4.00

SEEDING, CLASS 2A				
RETAINING WALL	FROM	TO	LT/RT	QUANTITY (ACRE)
022-W042	3910+57	3913+81	LT	0.27
022-W043	3913+42	3915+66	RT	0.08
022-W044	3920+00	3922+99	RT	0.18
022-W046	3965+19	3971+49	LT	0.72
022-W052	4017+20	4023+28	RT	0.71
PROJECT TOTAL				1.96
SAY				2.00

HEAVY DUTY EROSION CONTROL BLANKET				
RETAINING WALL	FROM	TO	LT/RT	QUANTITY (SQ YD)
022-W042	3910+57	3913+81	LT	1,230
PROJECT TOTAL				1,230

TEMPORARY EROSION CONTROL SEEDING				
RETAINING WALL	FROM	TO	LT/RT	QUANTITY (POUND)
022-W042	3910+57	3913+81	LT	27
022-W043	3913+42	3915+66	RT	8
022-W044	3920+00	3922+99	RT	18
022-W046	3965+19	3971+49	LT	72
022-W052	4017+20	4023+28	RT	71
PROJECT TOTAL				196

TEMPORARY DITCH CHECKS			
RETAINING WALL	STATION	LT/RT	QUANTITY (FOOT)
022-W042	3911+34	LT	15
	3913+28	LT	15
PROJECT TOTAL			30

PERIMETER EROSION BARRIER				
RETAINING WALL	FROM	TO	LT/RT	QUANTITY (FOOT)
022-W042	3910+57	3913+81	LT	327
022-W043	3913+21	3915+57	RT	261
022-W044	3919+29	3922+96	RT	192
022-W046	3965+19	3971+98	LT	673
022-W052	4016+75	4023+83	RT	733
PROJECT TOTAL				2,186

INLET FILTERS			
RETAINING WALL	STATION	LT/RT	QUANTITY (EACH)
022-W043	3912+18	RT	1
	3913+82	RT	1
	3914+57	RT	1
	3915+23	RT	1
	3915+74	RT	1
022-W044	3916+00	RT	1
	3918+93	RT	1
	3919+91	RT	1
	3920+86	RT	1
	3920+86	RT	1
	3921+46	RT	1
	3921+46	RT	1
	3922+07	RT	1
	3922+09	RT	1
	3922+48	RT	1
	3922+87	RT	1
	3922+98	RT	1
	3923+28	RT	1
	3964+70	LT	1
	3965+21	LT	1
022-W046	3966+31	LT	1
	3967+61	LT	1
	3968+88	LT	1
	3968+88	LT	1
	3970+03	LT	1
022-W042	3971+13	LT	1
	3972+32	LT	1
	3909+65	LT	1
	3910+12	LT	1
	3910+16	LT	1
	3910+65	LT	1
022-W052	3913+65	LT	1
	3913+99	LT	1
	3915+08	LT	1
	4016+56	RT	1
	4018+78	RT	1
	4019+68	RT	1
022-W052	4021+62	RT	1
	4022+32	RT	1
PROJECT TOTAL			39

PAVEMENT REMOVAL				
RETAINING WALL	FROM	TO	LT/RT	QUANTITY (SQ YD)
022-W052	4022+49	4023+21	RT	43
Naperville Electric Duct Bank Work	-	-	-	450
PROJECT TOTAL				493

COMBINATION CURB & GUTTER REMOVAL				
RETAINING WALL	FROM	TO	LT/RT	QUANTITY (FOOT)
022-W052	4022+49	4023+22	RT	82
Naperville Electric Duct Bank Work	-	-	-	214
PROJECT TOTAL				296

PIPE CULVERTS, CLASS C (TEMPORARY)						
RETAINING WALL	FROM	TO	STRUCTURE	LT/RT	QUANTITY (FOOT)	
					TYPE 1 30"	TYPE 2 30"
022-W046	3965+42.0	3965+69.3	200	LT	14	
	3965+69.3	3967+25.0	201	LT	149	
	3967+25.0	3970+00.0	202	LT	269	
	3970+00.0	3970+00.0	203	LT		28
	3971+18.5	3971+36.4	214	LT		34
022-W052	4020+47.0	4020+47.0		RT		6
PROJECT TOTAL					432	68

STORM SEWER REMOVAL						
RETAINING WALL	FROM	TO	LT/RT	QUANTITY (FOOT)		
				12"	30"	72"
022-W043	3913+72.0	3915+23.6	RT	166		
022-W046	3965+65.0	3965+70.0	LT	19		
	3965+66.4	3969+97.3	LT		428	
	3970+03.0	3971+40.0	LT		138	
022-W052	4020+52.0	4020+62.0	RT			16
	4020+65.7	4021+34.5	RT			69
	4021+36.0	4021+36.0	RT			19
PROJECT TOTAL				185	566	104

PRECAST CONCRETE BOX CULERTS 9'x5'			
RETAINING WALL	STATION	LT/RT	QUANTITY (FOOT)
022-W052	4020+44	RT	24
PROJECT TOTAL			24

STORM SEWERS										
RETAINING WALL	FROM	TO	STRUCTURE	LT/RT	QUANTITY (FOOT)					
					CLASS A TYPE 1 24"	CLASS A TYPE 1 48"	CLASS A TYPE 2 12"	CLASS A TYPE 2 48"	CLASS A TYPE 2 72"	CLASS B TYPE 1 12"
022-W043	3913+72.0	3913+72.0	101	RT						7
	3913+72.0	3915+23.6	102	RT						147
022-W046	3965+66.9	3967+32.0	211	LT		158				
	3967+32.0	3970+15.0	212	LT		277				
	3970+15.0	3971+18.0	213	LT				102		
	3965+66.9	3965+70.0	215	LT			8			
	3965+59.0	3965+59.0	N/A	LT						
022-W052	4020+49.0	4020+60.5	400	RT						20
	4020+69.0	4021+27.3	401	RT						66
	4021+34.8	4021+34.3	401A	RT						13
	4020+02.0	4020+08.0	402	RT	6					
	4020+11.1	4020+16.8	403	RT	6					
PROJECT TOTAL					12	435	8	102	99	154

CATCH BASINS						
RETAINING WALL	STRUCTURE	STATION	LT/RT	OFFSET	QUANTITY (EACH)	
					CATCH BASIN, TYPE C, TYPE 8 GRATE	CATCH BASINS, TYPE A, 4'-DIAMETER TYPE 8 GRATE
022-W046	220	3965+59	LT	60	1	
022-W052	402	4020+10	RT	75		1
	403	4020+19	RT	75		1
PROJECT TOTAL					1	2

MANHOLES										
RETAINING WALL	STRUCTURE	STATION	LT/RT	OFFSET	QUANTITY (EACH)					
					MANHOLES, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID	MANHOLES, TYPE A, 5' DIAMETER, TYPE 1 FRAME, CLOSED LID	MANHOLES, TYPE A, 6' DIAMETER, TYPE 1 FRAME, CLOSED LID	MANHOLES, TYPE A, 7' DIAMETER, TYPE 1 FRAME, CLOSED LID	MANHOLES, TYPE A, 10' DIAMETER, TYPE 1 FRAME, CLOSED LID	TEMPORARY MANHOLE
022-W043	100	3913+72.0	RT	72.8	1					
	101	3913+72.0	RT	62.3	1					
	102	3915+23.6	RT	60.6	1					
022-W046	200	3965+69.3	LT	87.0						1
	201	3967+25.0	LT	78.5						1
	202	3970+00.0	LT	82.0						1
	203	3970+00.0	LT	49.0						1
	211	3967+32.0	LT	71.5				1		
	212	3970+15.0	LT	78.5			1			
	213	3971+18.0	LT	78.5			1			
022-W052	400	4020+65.1	RT	52.0		1				1
	401	4021+31.4	RT	52.0						1
PROJECT TOTAL					3	1	2	1	2	4

REMOVING MANHOLES				
RETAINING WALL	STATION	L T/RT	OFFSET	QUANTITY (EACH)
022-W046	3967+72	LT	63.5	1
	3970+19	LT	66.1	1
022-W052	4020+63	RT	55.0	1
	4021+37	RT	55.0	1
PROJECT TOTAL				4

REMOVING CATCH BASINS TO MAINTAIN FLOW				
RETAINING WALL	STATION	L T/RT	OFFSET	QUANTITY (EACH)
022-W052	4019+99.0	RT	57.0	1
PROJECT TOTAL				1

CONCRETE GUTTER, TYPE B				
RETAINING WALL	FROM STA	TO STA	L T/RT	QUANTITY (FOOT)
022-W046	3965+06	3970+90	LT	583
PROJECT TOTAL				583

COMBINATION CURB & GUTTER, TYPE B-6.12				
RETAINING WALL	FROM STA	TO STA	L T/RT	QUANTITY (FOOT)
022-W052	4022+49	4023+22	RT	80
Naperville Electric Duct Bank Work	-	-	-	214
PROJECT TOTAL				294

GUARDRAIL REMOVAL				
RETAINING WALL	FROM	TO	L T/RT	QUANTITY (FOOT)
022-W046	3965+06	3965+98	LT	92
PROJECT TOTAL				92

TEMPORARY CONCRETE BARRIER				
RETAINING WALL	FROM	TO	L T/RT	QUANTITY (FOOT)
022-W046	3959+50	3967+00	LT	750
PROJECT TOTAL				750

BARRIER WALL MARKERS, TYPE C				
RETAINING WALL	FROM	TO	L T/RT	QUANTITY (EACH)
022-W046	3959+50	3967+00	LT	60
PROJECT TOTAL				60

TRAFFIC CONTROL AND PROTECTION (SPECIAL)				
				QUANTITY (L SUM)
NOTE:	LUMP SUM			1
PROJECT TOTAL				1

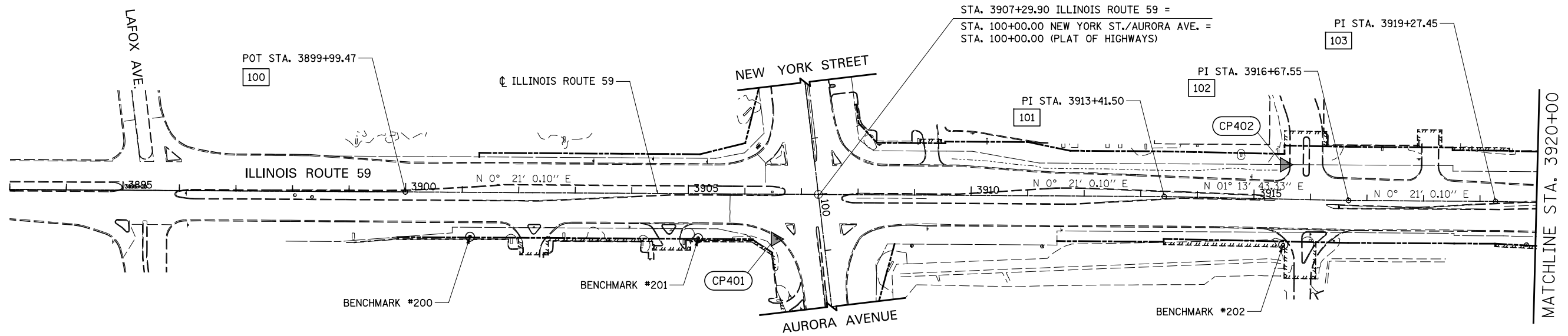
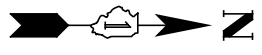
DRAINAGE STRUCTURES TO BE CLEANED				
RETAINING WALL	STA	OFFSET	L T/RT	QUANTITY (EACH)
022-W052	4019+54	41.9	RT	1
022-W052	4019+68	49.7	RT	1
022-W052	4021+09	41.4	RT	1
022-W052	4021+62	46.8	RT	1
PROJECT TOTAL				4

MANHOLES TO BE RECONSTRUCTED				
RETAINING WALL	STA	OFFSET	L T/RT	QUANTITY (EACH)
022-W052	401954	41.9	RT	1
022-W052	401968	49.7	RT	1
022-W052	402109	41.4	RT	1
022-W052	402162	46.8	RT	1
PROJECT TOTAL				4

IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2				
RETAINING WALL	STATION	OFFSET	L T/RT	QUANTITY (EACH)
022-W046	3967+00	40	LT	1
PROJECT TOTAL				1

TEMPORARY INFORMATION SIGNING					
STA	L T/RT	SIGN DIM. (IN)	DESCRIPTION	QUANTITY	AREA (SQ FT)
3900+74	RT	45x68	ARTERIAL ROAD INFO.	1	51
3987+00	LT	45x68	ARTERIAL ROAD INFO.	1	52
PROJECT TOTAL				2	103

RAILROAD PROTECTIVE LIABILITY INSURANCE				
				QUANTITY (L SUM)
NOTE:	LUMP SUM			1
PROJECT TOTAL				1



ALIGNMENT DATA

100	N 855395.72 E 19057.63
101	N 856737.73 E 19065.83
102	N 857063.70 E 19072.82
103	N 857323.60 E 19074.41
104	N 857937.62 E 19090.16

BM #200 3900+14, 79 RT
 SQUARE "□" CUT IN WEST FACE OF HIGH TENSION TOWER BASE, EAST SIDE OF IL ROUTE 59 (*664 S IL RTE 59)
 ELEV. 698.76

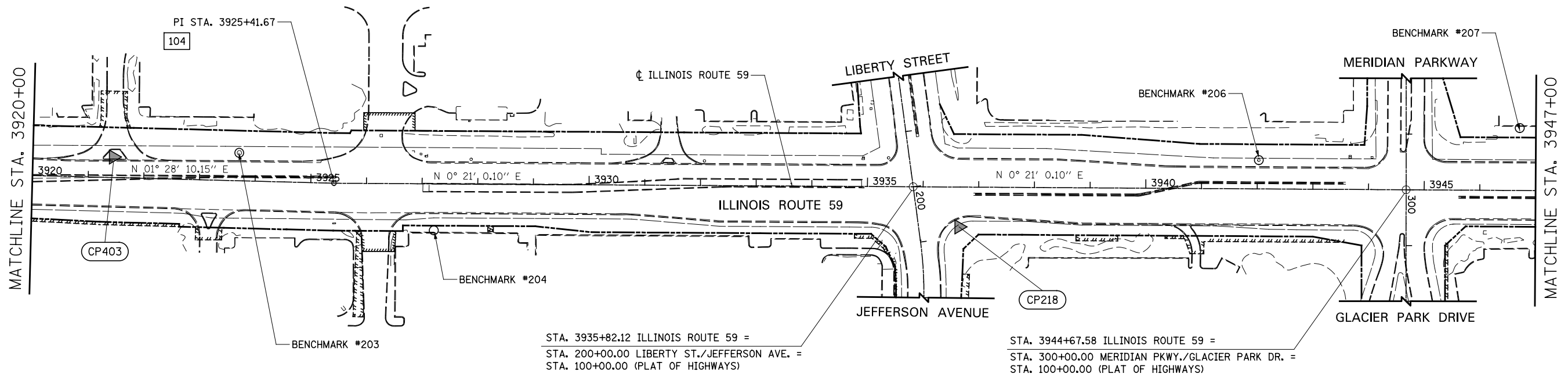
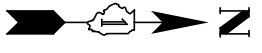
BM #202 3915+54, 81 RT
 SQUARE "□" CUT IN WEST FACE OF HIGH TENSION TOWER BASE, EAST SIDE OF IL ROUTE 59 AT SOUTH ENTRANCE TO CARSON FURNITURE GALLERY / DSW SHOES
 ELEV. 701.90

BM #204 3927+28, 83 RT
 SQUARE "□" CUT IN WEST FACE OF LIGHT POLE BASE, IN PARKING LOT, 50' NORTH OF NORTHWEST CORNER OF CHILI'S RESTAURANT
 ELEV. 707.09

BM #201 3905+18, 79 RT
 SQUARE "□" CUT IN WEST FACE OF HIGH TENSION TOWER BASE, EAST SIDE OF IL ROUTE 59 (*604 IL RTE 59)
 ELEV. 696.82

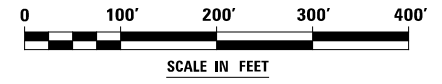
BM #203 3923+70, 50.6 LT
 SQUARE "□" CUT IN EAST FACE OF HIGH TENSION TOWER BASE, WEST SIDE OF IL ROUTE 59, 150'± SOUTH OF ENTRANCE TO MEIJER FOODS
 ELEV. 711.96

BM #206 3942+03, 51.8 LT
 SQUARE "□" CUT IN SOUTHEAST CORNER OF HIGH TENSION TOWER BASE, WEST SIDE OF IL ROUTE 59, IN FRONT OF SWEET TOMATOES RESTAURANT
 ELEV. 713.74



STA. 3935+82.12 ILLINOIS ROUTE 59 =
 STA. 200+00.00 LIBERTY ST./JEFFERSON AVE. =
 STA. 100+00.00 (PLAT OF HIGHWAYS)

STA. 3944+67.58 ILLINOIS ROUTE 59 =
 STA. 300+00.00 MERIDIAN PKWY./GLACIER PARK DR. =
 STA. 100+00.00 (PLAT OF HIGHWAYS)



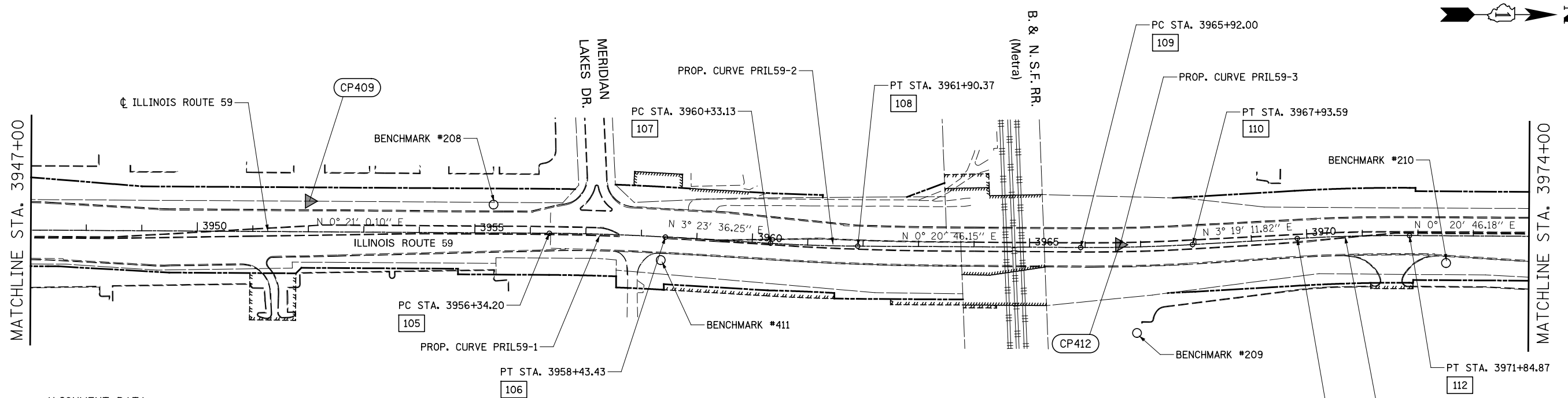
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	PLOT DATE = *DATE*	DATE <i>05-11-12</i>	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, BENCHMARKS, AND TIES

SCALE: AS SHOWN SHEET NO. 1 OF 6 SHEETS STA. 3893+00 TO STA. 3947+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-I	DUPAGE	234	17
				CONTRACT NO. 60P42
ILLINOIS FED. AID PROJECT				



ALIGNMENT DATA

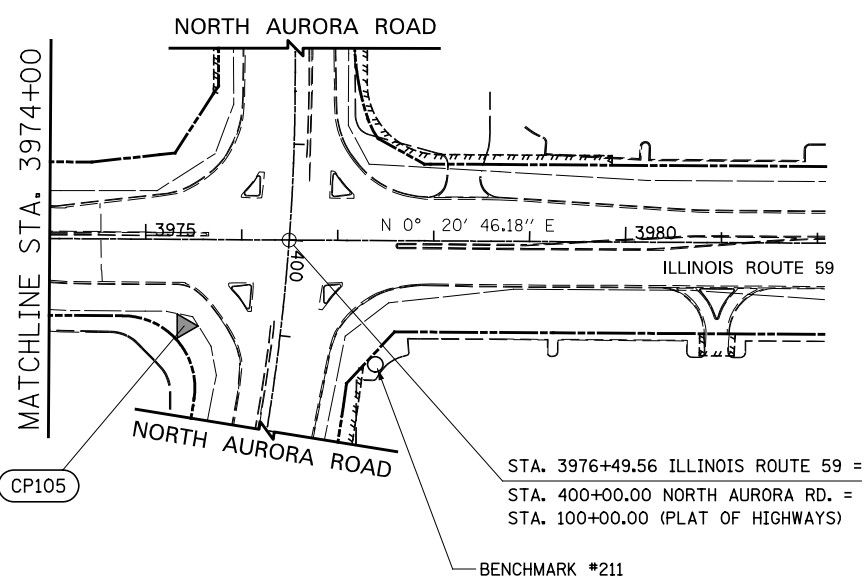
105	N 861030.08 E 19109.05	108	N 861585.69 E 19132.24	111	N 862377.43 E 19118.50
106	N 861239.18 E 19115.88	109	N 861987.31 E 19134.67	112	N 862579.66 E 19113.25
107	N 861428.54 E 19127.11	110	N 862188.79 E 19129.44		

PROP. CURVE PRIL59-1
 PI STA. = 3957+38.84
 $\Delta = 3^\circ 02' 36''$ (RT)
 $D = 1^\circ 27' 16''$
 $R = 3,939.05'$
 $T = 104.64'$
 $L = 209.23'$
 $E = 1.39'$
 SE = NORMAL CROWN
 P.C. STA. = 3956+34.20
 P.T. STA. = 3958+43.43

PROP. CURVE PRIL59-2
 PI STA. = 3961+11.77
 $\Delta = 3^\circ 02' 50''$ (LT)
 $D = 1^\circ 56' 16''$
 $R = 2,956.67'$
 $T = 78.64'$
 $L = 157.25'$
 $E = 1.05'$
 SE = NORMAL CROWN
 P.C. STA. = 3960+33.13
 P.T. STA. = 3961+90.37

PROP. CURVE PRIL59-3
 PI STA. = 3966+92.83
 $\Delta = 3^\circ 39' 58''$ (LT)
 $D = 1^\circ 49' 07''$
 $R = 3,150.48'$
 $T = 100.83'$
 $L = 201.59'$
 $E = 1.61'$
 SE = NORMAL CROWN
 P.C. STA. = 3965+92.00
 P.T. STA. = 3967+93.59

PROP. CURVE PRIL59-4
 PI STA. = 3970+83.74
 $\Delta = 3^\circ 39' 58''$ (RT)
 $D = 1^\circ 48' 43''$
 $R = 3,162.19'$
 $T = 101.20'$
 $L = 202.33'$
 $E = 1.62'$
 SE = NORMAL CROWN
 P.C. STA. = 3969+82.54
 P.T. STA. = 3971+84.87

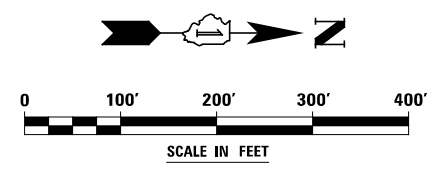


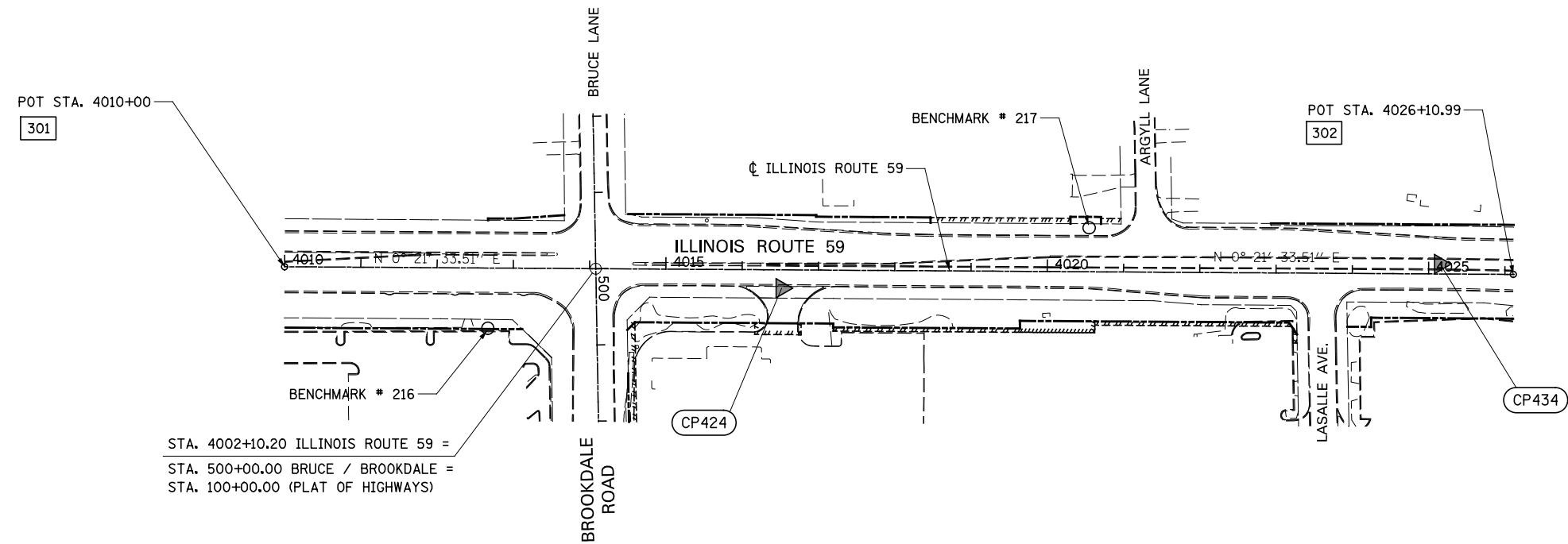
BM #411 3958+37, 42 RT
 CROSS "+" ON TOP NORTH END OF HEADWALL, 50' NORTH OF CENTERLINE OF PHOENIX CLOSURES DRIVEWAY, EAST SIDE OF IL ROUTE 59
 ELEV. 696.41

BM #210 3972+51, 49 RT
 CROSS "+" FOUND WEST SIDE LIGHT POLE BASE, AT NORTH SIDE ENTRANCE OF DELTA SONIC CAR WASH
 ELEV. 703.95

BM #209 3966+94, 155 RT
 SQUARE "□" CUT IN BASE OF SOUTHERN MOST LIGHT POLE IN PARKING LOT AT #1778 IL ROUTE 59
 ELEV. 701.63

BM #211 3977+40, 129 RT
 SQUARE "□" CUT IN SOUTH SIDE OF LIGHT POLE BASE, JUST SOUTH OF CVS DRUG STORE SIGN, NORTHEAST CORNER IL ROUTE 59 AND NORTH AURORA AVENUE
 ELEV. 707.30





STA. 4002+10.20 ILLINOIS ROUTE 59 =
 STA. 500+00.00 BRUCE / BROOKDALE =
 STA. 100+00.00 (PLAT OF HIGHWAYS)

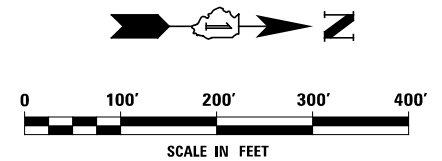
BENCHMARKS

BM #216 4012+67, 79 RT
 SQUARE "□" CUT IN WEST SIDE OF LIGHT POLE BASE,
 AT NORTHWEST CORNER OF CHASE BANK, SOUTHEAST
 CORNER IL ROUTE 59 AND BROOKDALE ROAD
 ELEV. 714.28

BM #217 4020+54, 57 LT
 SQUARE "□" ON TOP NORTH END OF HEADWALL, WEST
 SIDE OF IL ROUTE 59, 75' SOUTH OF CENTERLINE OF
 ARGYLL LANE
 ELEV. 708.12

ALIGNMENT DATA

301	N 866394.47 E 19149.87
302	N 868005.42 E 19159.97



FILE NAME =	USER NAME = \$USER\$	DESIGNED <i>NAV</i>	REVISED
\$FILEL\$		DRAWN <i>KES</i>	REVISED
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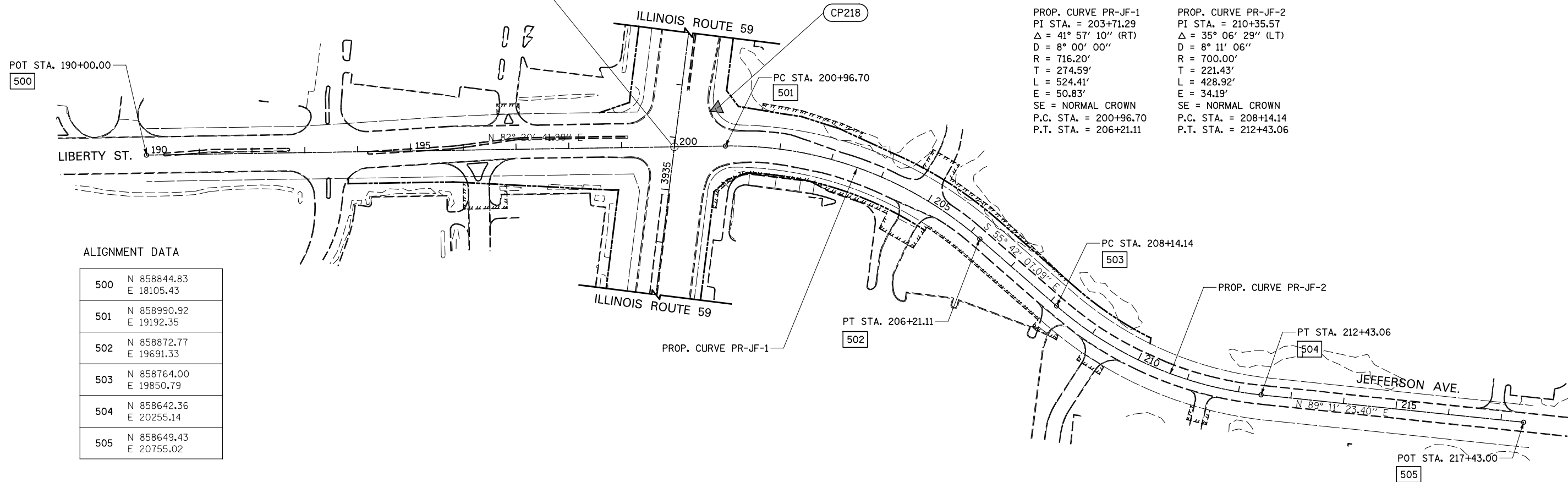
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, BENCHMARKS, AND TIES

SCALE: AS SHOWN SHEET NO. 3 OF 6 SHEETS STA. 4010+00 TO STA. 4026+11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-I	DUPAGE	234	19
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				

STA. 3935+82.12 ILLINOIS ROUTE 59 =
 STA. 200+00.00 LIBERTY ST./JEFFERSON AVE. =
 STA. 100+00.00 (PLAT OF HIGHWAYS)

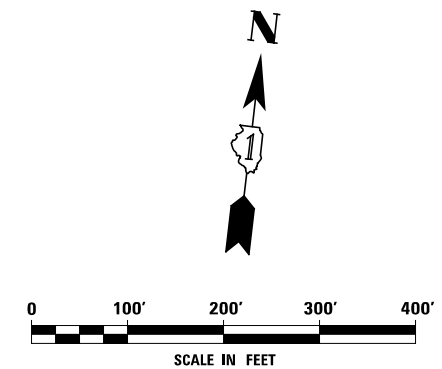


PROP. CURVE PR-JF-1
 PI STA. = 203+71.29
 $\Delta = 41^\circ 57' 10''$ (RT)
 $D = 8^\circ 00' 00''$
 $R = 716.20'$
 $T = 274.59'$
 $L = 524.41'$
 $E = 50.83'$
 SE = NORMAL CROWN
 P.C. STA. = 200+96.70
 P.T. STA. = 206+21.11

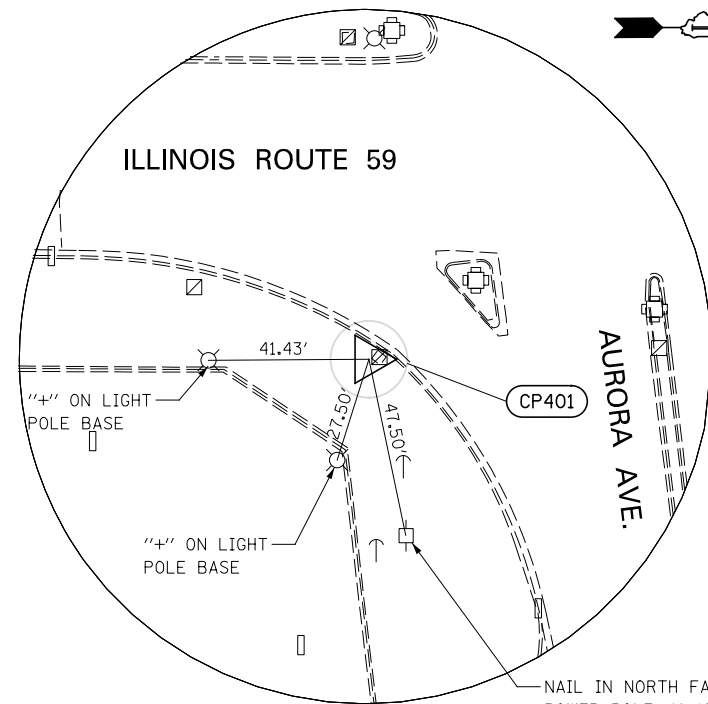
PROP. CURVE PR-JF-2
 PI STA. = 210+35.57
 $\Delta = 35^\circ 06' 29''$ (LT)
 $D = 8^\circ 11' 06''$
 $R = 700.00'$
 $T = 221.43'$
 $L = 428.92'$
 $E = 34.19'$
 SE = NORMAL CROWN
 P.C. STA. = 208+14.14
 P.T. STA. = 212+43.06

ALIGNMENT DATA

500	N 858844.83 E 18105.43
501	N 858990.92 E 19192.35
502	N 858872.77 E 19691.33
503	N 858764.00 E 19850.79
504	N 858642.36 E 20255.14
505	N 858649.43 E 20755.02



FILE NAME =	USER NAME = *USER*	DESIGNED <i>NAV</i>	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT, BENCHMARKS, AND TIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL		DRAWN <i>KES</i>	REVISED		338	2011-036-I	DUPAGE	234	20			
PLOT SCALE = *SCALE*		CHECKED <i>PJO</i>	REVISED		CONTRACT NO. 60P42							
PLOT DATE = *DATE*		DATE <i>05-11-12</i>	REVISED		SCALE: AS SHOWN	SHEET NO. 4 OF 6 SHEETS	STA. 190+00 TO STA. 217+43	ILLINOIS FED. AID PROJECT				

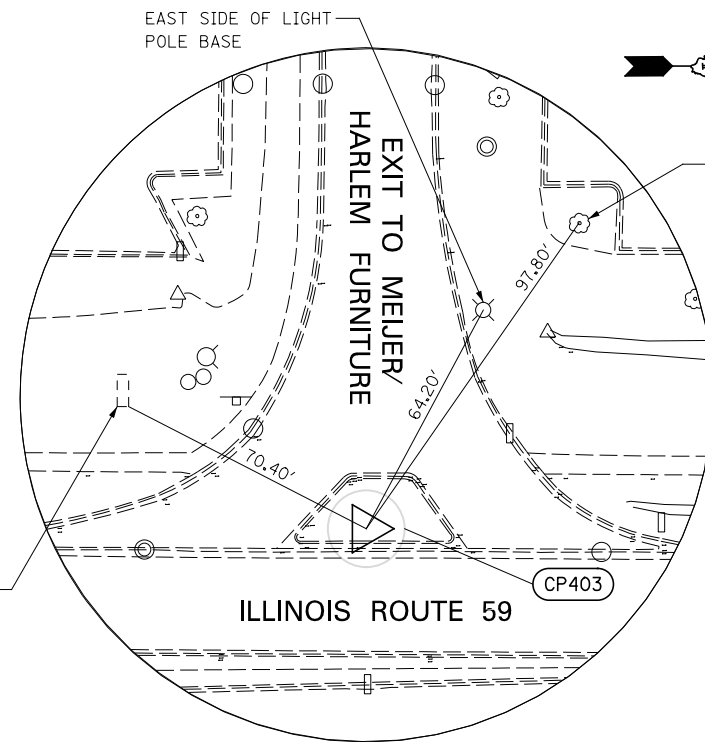


CONTROL POINT 401

REBAR W/CAP 4' EAST OF MID-POINT OF BACK OF CURB IN THE SOUTH EAST QUADRANT OF IL RTE 59 AND AURORA AVE., 0.5' SOUTH OF EXISTING HANDHOLE.

N 856050.06
E 19141.30

ELEV. = 693.09

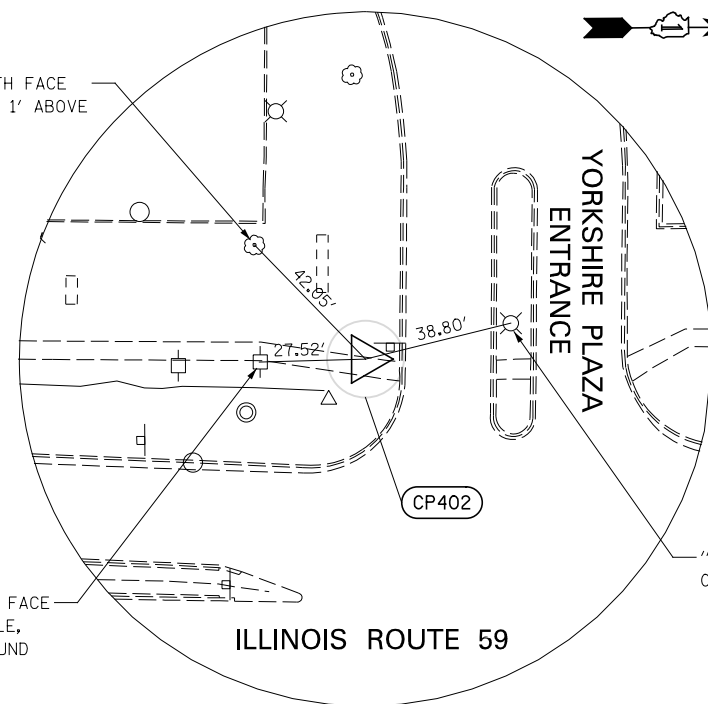


CONTROL POINT 403

CROSS (+) 3' WEST OF WEST BACK OF CURB OF PORK CHOP ISLAND AT SOUTH EASTERN EXIT OF MEIJER FOODS/HARLEM FURNITURE TO RTE 59.

N 857541.5
E 19043.14

ELEV. = 705.51

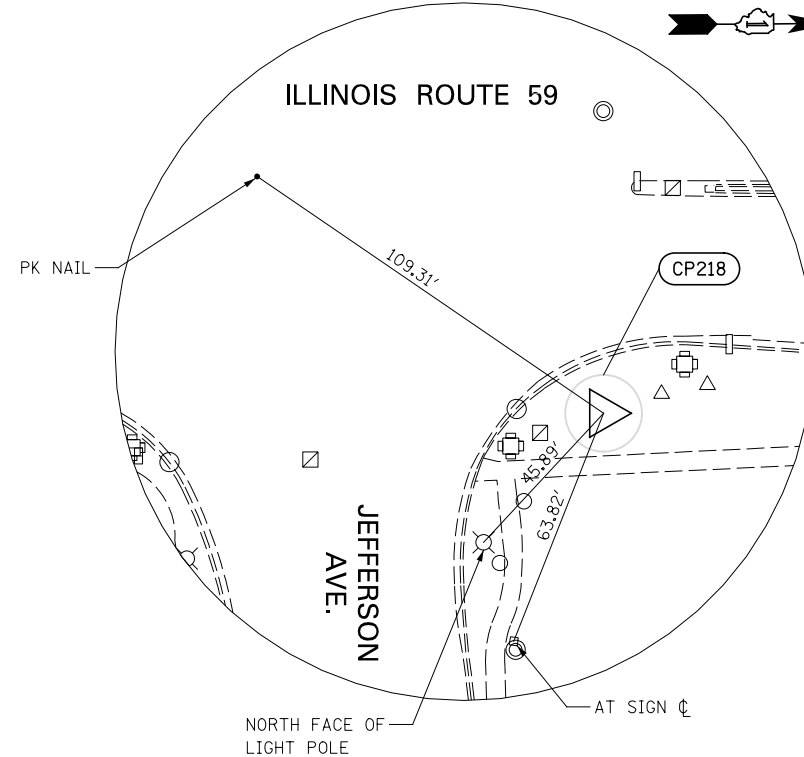


CONTROL POINT 402

CROSS (+) CUT 0.5' EAST OF WEST BACK OF SIDEWALL EDGE, 9' SOUTH OF BACK OF CURB, AT SOUTH ENTRANCE TO YORKSHIRE PLAZA AT RTE 59.

N 856950.33
E 19009.40

ELEV. = 701.37



CONTROL POINT 218

NAPERVILLE GPS MONUMENT AT NORTHEAST CORNER OF IL RTE 59 AND JEFFERSON AVE., 8' WEST OF EDGE OF SIDEWALK, 10' EAST OF MID-POINT OF BACK OF CURB.

N 859060.22
E 19168.45

ELEV. = 710.10

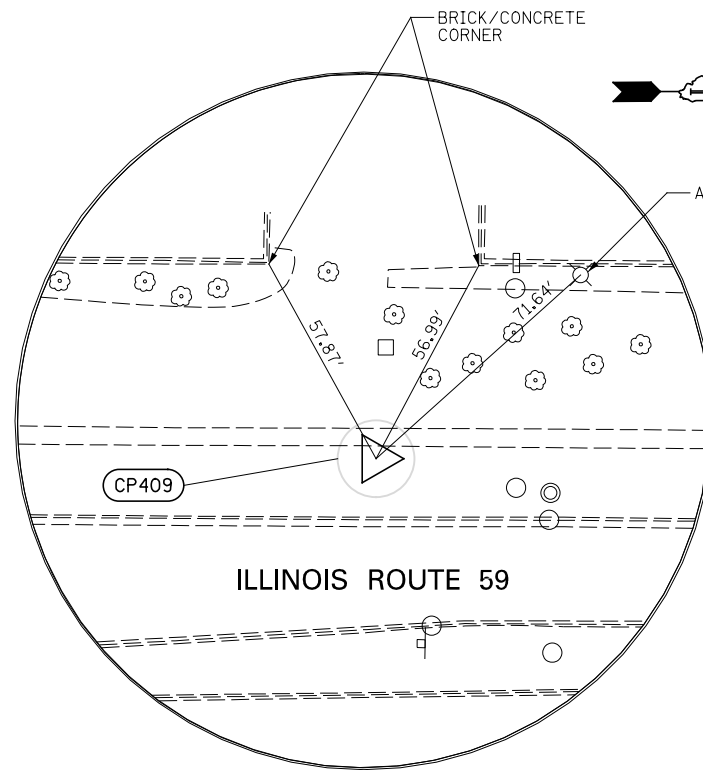
FILE NAME =	USER NAME = \$USER\$	DESIGNED NAV	REVISED
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

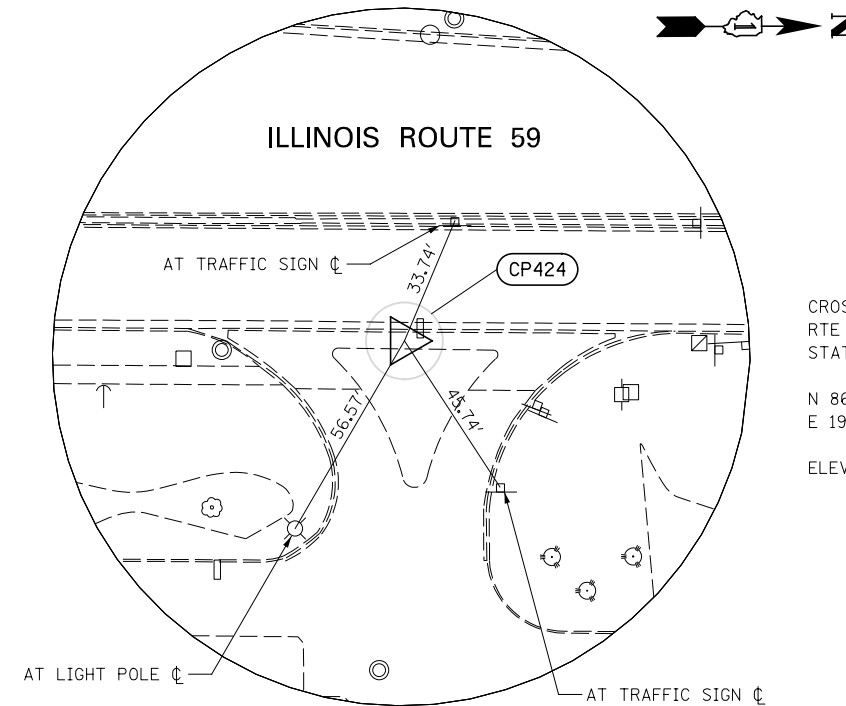
ALIGNMENT, BENCHMARKS, AND TIES

SCALE: AS SHOWN SHEET NO. 5 OF 6 SHEETS STA. TO STA.

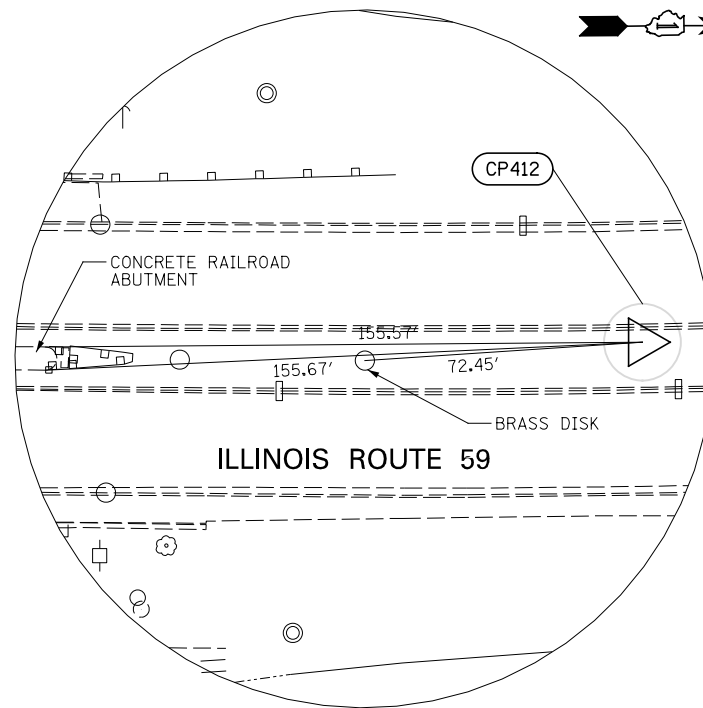
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-I	DUPAGE	234	21
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				



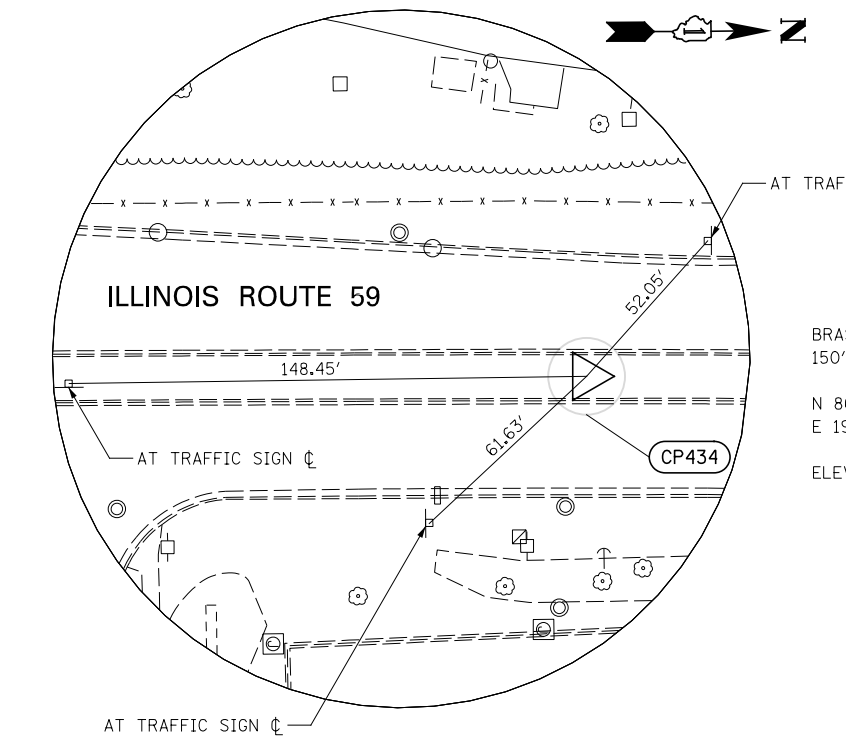
CONTROL POINT 409
 3/4" IRON PIPE 3' EAST OF FACE WALK, 12' WEST OF WEST BACK OF CURB OF RTE 59. AT PROPERTY LINE BETWEEN RED LOBSTER AND RADIOSHACK.
 N 860598.0
 E 19051.32
 ELEV. = 703.79



CONTROL POINT 424
 CROSS (+) CUT 2' EAST OF EAST BACK OF CURB ON RTE 59, AT CENTER OF ENTRANCE TO BP GAS STATION.
 N 867046.2
 E 19178.16
 ELEV. = 712.03



CONTROL POINT 412
 CROSS (+) CUT IN ISLAND ON RTE 59, 150' NORTH OF CL NORTH OF RAILROAD BRIDGE PIER, 3' EAST OF WEST BACK OF CURB OF ISLAND.
 N 862057.5
 E 19129.89
 ELEV. = 688.16



CONTROL POINT 434
 BRASS DISK AT CL OF ISLAND ON RTE 59, 150' NORTH OF CL OF LASALLE AVE.
 N 867909.4
 E 19146.36
 ELEV. = 710.69

FILE NAME =	USER NAME = \$USER\$	DESIGNED NAV	REVISED
\$FILEL\$		DRAWN KES	REVISED
	PLOT SCALE = \$SCALE\$	CHECKED PJO	REVISED
	PLOT DATE = \$DATE\$	DATE 05-11-12	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, BENCHMARKS, AND TIES
 SCALE: AS SHOWN SHEET NO. 6 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-I	DUPAGE	234	22
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				

SUGGESTED CONSTRUCTION SEQUENCING

RETAINING WALL SN 022-W043

DRAINAGE:

RELOCATE EXISTING 12" STORM SEWER TO BE CLEAR OF PROPOSED RETAINING WALL FOOTING.

RETAINING WALL:

- CONSTRUCT L-SHAPED RETAINING WALL.
- CONNECT PIPE UNDERDRAINS FOR STRUCTURES, 4" TO EXISTING STORM SEWER SYSTEM.

RESTORATION:

TOPSOIL FURNISH AND PLACE 2" TEMPORARY EROSION CONTROL SEEDING MULCH METHOD 2.

RETAINING WALL SN 022-W044

DRAINAGE:

NO TEMPORARY DRAINAGE WORK REQUIRED.

RETAINING WALL:

- CONSTRUCT L-SHAPED RETAINING WALL.
- CONNECT PIPE UNDERDRAINS FOR STRUCTURES, 4" TO EXISTING STORM SEWER SYSTEM.

RESTORATION:

TOPSOIL FURNISH AND PLACE 2" TEMPORARY EROSION CONTROL SEEDING MULCH METHOD 2.

RETAINING WALL SN 022-W046

DRAINAGE:

- RELOCATE EXISTING 30" STORM SEWER TO BE CLEAR OF PROPOSED RETAINING WALL CONSTRUCTION.
- INSTALL PERMANENT 48" STORM SEWER AFTER RETAINING WALL CONSTRUCTION.

RETAINING WALL:

- CONSTRUCT SOLDIER PILE RETAINING WALL.
- CONNECT PIPE UNDERDRAINS FOR STRUCTURES, 4" TO EXISTING STORM SEWER SYSTEM.

RESTORATION:

TOPSOIL FURNISH AND PLACE 2" TEMPORARY EROSION CONTROL SEEDING MULCH METHOD 2

RETAINING WALL SN 022-W042

DRAINAGE:

NO TEMPORARY DRAINAGE WORK REQUIRED.

RETAINING WALL:

- CONSTRUCT SOLDIER PILE RETAINING WALL.
- CONNECT PIPE UNDERDRAINS FOR STRUCTURES, 4" TO EXISTING STORM SEWER SYSTEM.

RESTORATION:

TOPSOIL FURNISH AND PLACE 2" TEMPORARY EROSION CONTROL SEEDING MULCH METHOD 2.

RETAINING WALL SN 022-W052

DRAINAGE:

- REMOVE AND REINSTALL 72" STORM SEWER TO BE CLEAR OF PROPOSED RETAINING WALL.
- INSTALL 9' X 5' PRECAST CONCRETE BOX CULVERT AFTER RETAINING WALL CONSTRUCTION AND PRIOR TO BACKFILL.
- CONNECT PROPOSED 9' X 5' PRECAST CONCRETE BOX CULVERT TO EXISTING 9' X 5' CONCRETE BOX CULVERT WITH 30" STORM SEWER.

RETAINING WALL:

- CONSTRUCT SOLDIER PILE RETAINING WALL.
- CONNECT PIPE UNDERDRAINS FOR STRUCTURES, 4" TO EXISTING STORM SEWER SYSTEM.

RESTORATION:

- TOPSOIL FURNISH AND PLACE 2" TEMPORARY EROSION CONTROL SEEDING MULCH METHOD 2.
- DRIVEWAY: HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N50, 2", HOT-MIX ASPHALT BASE COURSE, 4"
- COMBINATION CONCRETE CURB AND GUTTER TYPE B6.12.

FILE NAME = \$FILEL\$	USER NAME = \$USER\$	DESIGNED <i>NAV</i>	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED CONSTRUCTION SEQUENCING	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN <i>KES</i>	REVISED			338	2011-036-I	DUPAGE	234	23
	PLOT SCALE = \$SCALE\$	CHECKED <i>PJO</i>	REVISED			CONTRACT NO. 60P42				
	PLOT DATE = \$DATE\$	DATE <i>05-11-12</i>	REVISED			SCALE: AS SHOWN	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN THE EXISTING TRAFFIC LANES IN EACH DIRECTION ON ILLINOIS ROUTE 59, AND ALL SIDE ROADS.
2. THE CONTRACTOR SHALL PROVIDE ALL SIGNS, TYPE II BARRICADES OR CHANNELIZATION DRUMS NECESSARY FOR THE MAINTENANCE OF TRAFFIC, OR AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL INSTALL AND MAINTAIN PROPOSED AND TEMPORARY DRAINAGE SYSTEMS, AND EROSION CONTROL THROUGHOUT STAGE CONSTRUCTION DURING THE DURATION OF THE PROJECT.
4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS TO ALL COMMERCIAL AND PRIVATE ENTRANCES.
5. THE CONTRACTOR SHALL MAINTAIN EXISTING LIGHTING DURING THE DURATION OF THE PROJECT AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL USE TEMPORARY PAVEMENT MARKING ON EXISTING SURFACES TO REMAIN.
7. 4 INCH SOLID WHITE TEMPORARY PAVEMENT MARKING LINE SHALL BE USED TO DEFINE EDGE OF TRAVEL LANE WHERE EXISTING RIGHT TURN LANE IS TO BE TEMPORARILY CLOSED.
8. 24 INCH SOLID WHITE PAVEMENT MARKING LINES ARE TO BE USED FOR STOP BARS.
9. ALL TYPE II BARRICADES AND DRUMS SHALL BE EQUIPPED WITH MONO-DIRECTIONAL STEADY BURNING LIGHTS.
10. ALL TYPE II BARRICADES OR DRUMS SHALL BE SPACED AT 25 FEET CENTER TO CENTER THROUGHOUT THE WORK ZONE AND ALONG CORNER RADII.

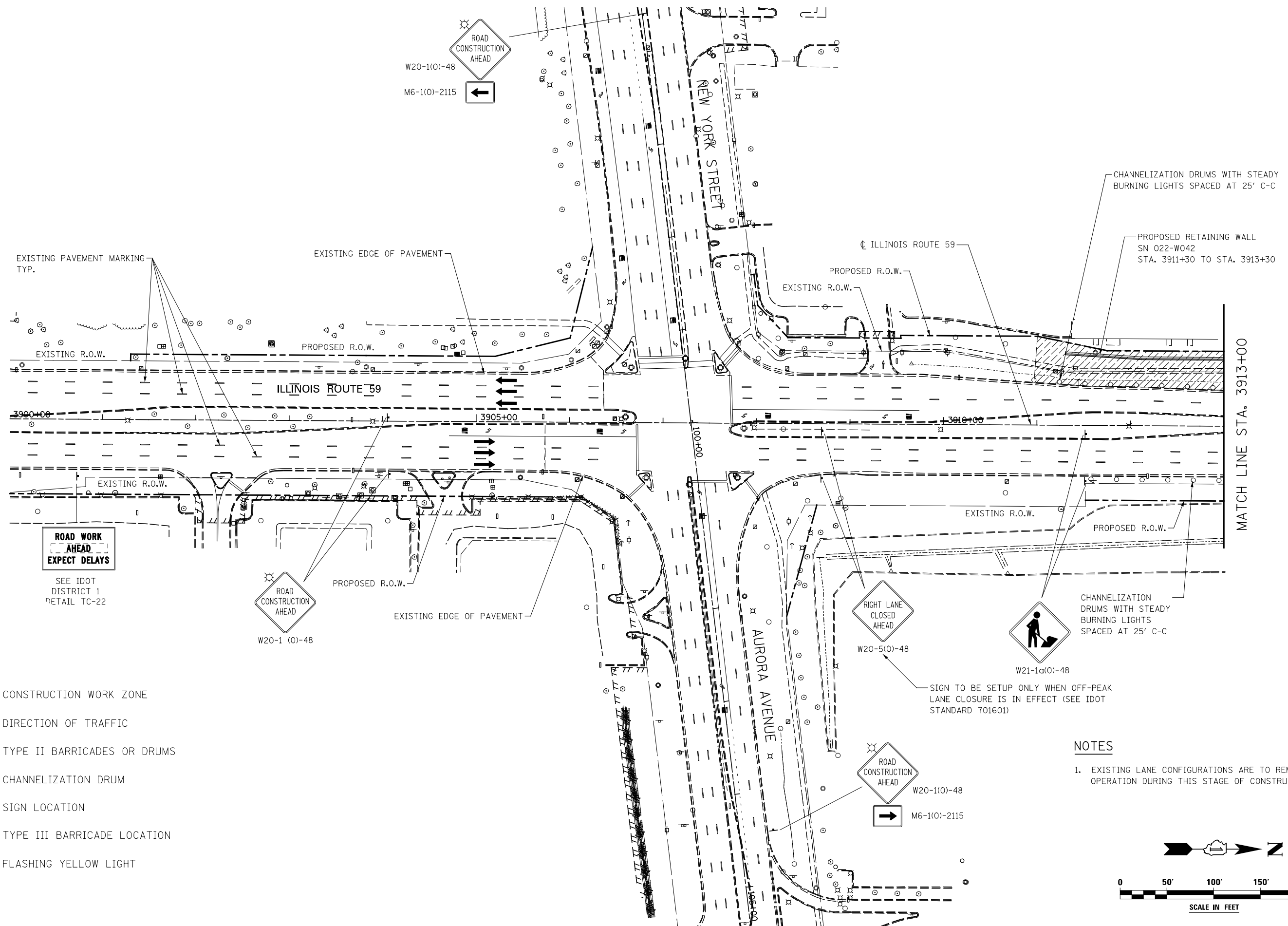
11. ALL CONSTRUCTION WARNING SIGNS SHALL BE BLACK LEGEND ON ORANGE BACKGROUND.
12. ALL CONSTRUCTION WARNING SIGN DIMENSIONS SHALL BE 48" X 48".
13. ALL "ROAD CONSTRUCTION AHEAD" WARNING SIGNS (W20-1) SHALL BE EQUIPPED WITH HIGH INTENSITY FLASHING LIGHTS.

14. ANY ADDITIONAL TRAFFIC CONTROL DEVICES SUCH AS BARRICADES, DRUMS, VERTICAL PANELS, SIGNS, ETC. REQUIRED FOR THE MAINTENANCE OF TRAFFIC AT THE SIDE ROADS AND ENTRANCES SHALL BE INCLUDED IN THE LUMP SUM CONTRACT UNIT PRICE FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

15. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL BACKFILL OR COVER ALL TRENCHES AND OPEN EXCAVATION HOLES FOR PROPOSED STORM SEWER, DRAINAGE STRUCTURES, AND WATER MAINS IN ORDER TO PROVIDE A SAFE CONDITION FOR MOTORISTS AND THE PUBLIC DURING NON-WORKING HOURS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

16. ALL TRAFFIC CONTROL AND PROTECTION REQUIRED FOR THE CITY OF NAPERVILLE ELECTRICAL DUCT BANK WORK NOT INCLUDED IN THE MAINTENANCE OF TRAFFIC PLANS SHALL BE IN ACCORDANCE WITH REQUIREMENTS INCLUDED IN THE SPECIAL PROVISION FOR TRAFFIC CONTROL AND PROTECTION (ARTERIALS).

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED <i>NAV</i>	REVISED <i>06-04-12</i>	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN <i>KES</i>	REVISED			338	2011-036-I	DUPAGE	234	24	
		CHECKED <i>PJO</i>	REVISED			CONTRACT NO. 60P42					
		PLOT DATE = *DATE*	DATE <i>05-11-12</i>			SCALE:	SHEET NO. 1 OF 8 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	



EXISTING PAVEMENT MARKING TYP.

EXISTING EDGE OF PAVEMENT

ILLINOIS ROUTE 59

CHANNELIZATION DRUMS WITH STEADY BURNING LIGHTS SPACED AT 25' C-C

PROPOSED RETAINING WALL SN 022-W042 STA. 3911+30 TO STA. 3913+30

EXISTING R.O.W.

PROPOSED R.O.W.

EXISTING R.O.W.

PROPOSED R.O.W.

3900+00

3905+00

3910+00

EXISTING R.O.W.

PROPOSED R.O.W.

EXISTING R.O.W.

PROPOSED R.O.W.

ROAD WORK AHEAD EXPECT DELAYS

SEE IDOT DISTRICT 1 DETAIL TC-22

ROAD CONSTRUCTION AHEAD

W20-1 (0)-48

EXISTING EDGE OF PAVEMENT

RIGHT LANE CLOSED AHEAD

W20-5(0)-48

CHANNELIZATION DRUMS WITH STEADY BURNING LIGHTS SPACED AT 25' C-C

W21-1a(0)-48

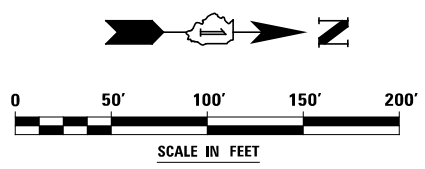
SIGN TO BE SETUP ONLY WHEN OFF-PEAK LANE CLOSURE IS IN EFFECT (SEE IDOT STANDARD 701601)

LEGEND

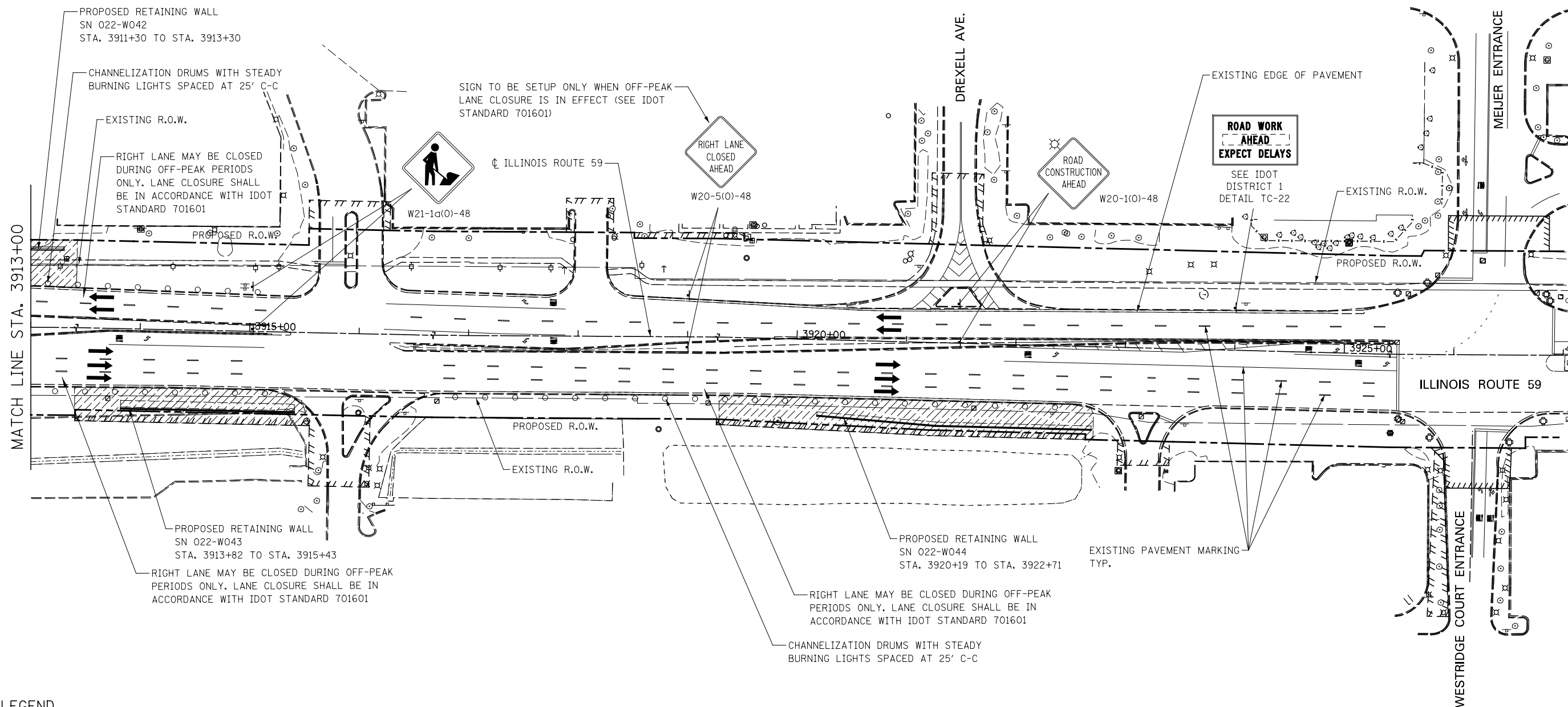
- CONSTRUCTION WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE II BARRICADES OR DRUMS
- CHANNELIZATION DRUM
- SIGN LOCATION
- TYPE III BARRICADE LOCATION
- FLASHING YELLOW LIGHT

NOTES








1. EXISTING LANE CONFIGURATIONS ARE TO REMAIN IN OPERATION DURING THIS STAGE OF CONSTRUCTION.



FILE NAME = *FILEL\$	USER NAME = *USER\$	DESIGNED NAV	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC ILLINOIS ROUTE 59			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = *SCALE\$	DRAWN KES	REVISED		338	2011-036-I	DUPAGE	234	25			
PLOT DATE = *DATE\$	CHECKED PJO	REVISIED	REVISIED	SCALE: AS SHOWN SHEET NO. 2 OF 8 SHEETS STA. 3900+00 TO STA. 3913+00			CONTRACT NO. 60P42					
	DATE 05-11-12	REVISIED	REVISIED	ILLINOIS FED. AID PROJECT								

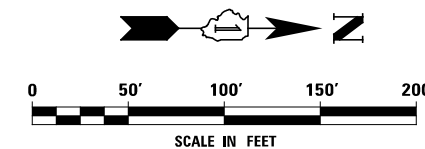


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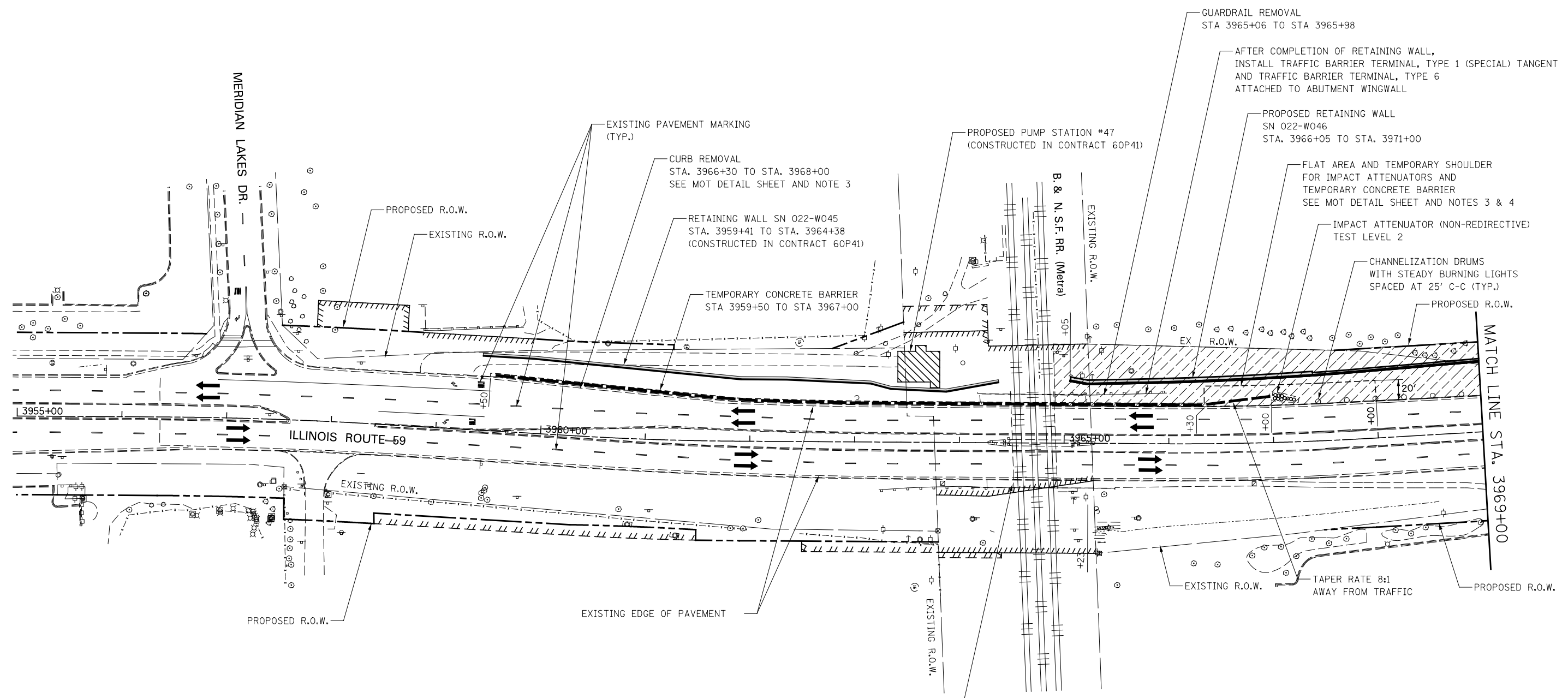
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-  DIRECTION OF TRAFFIC
-  TYPE II BARRICADES OR DRUMS
-  CHANNELIZATION DRUM
-  SIGN LOCATION
-  TYPE III BARRICADE LOCATION
-  FLASHING YELLOW LIGHT

NOTES








1. EXISTING LANE CONFIGURATIONS ARE TO REMAIN IN OPERATION DURING THIS STAGE OF CONSTRUCTION.



FILE NAME = *FILE*	USER NAME = *USER*	DESIGNED <i>NAV</i>	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC ILLINOIS ROUTE 59	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN <i>KES</i>	REVISED			338	2011-036-I	DUPAGE	234	26	
		CHECKED <i>PJO</i>	REVISED			CONTRACT NO. 60P42					
		DATE <i>05-11-12</i>	REVISED			ILLINOIS FED. AID PROJECT					
				SCALE: AS SHOWN		SHEET NO. 3 OF 8 SHEETS		STA. 3913+00 TO STA. 3927+00			



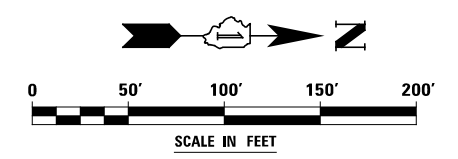
LEGEND

-  CONSTRUCTION WORK ZONE
-  DIRECTION OF TRAFFIC
-  TYPE II BARRICADES OR DRUMS
-  CHANNELIZATION DRUM
-  SIGN LOCATION
-  TYPE III BARRICADE LOCATION
-  FLASHING YELLOW LIGHT

DRUMS OR TYPE II BARRICADES WITH STEADY BURNING LIGHTS SPACED AT 25' C-C (TYP.)

NOTES

1. EXISTING LANE CONFIGURATIONS ARE TO REMAIN IN OPERATION DURING THIS STAGE OF CONSTRUCTION.
2. SEE CROSS SECTIONS FOR GRADING DETAILS.
3. GRADING OF THE FLAT AREA REQUIRED FOR THE PLACEMENT OF THE IMPACT ATTENUATOR AND TEMPORARY CONCRETE BARRIER SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR CURB REMOVAL.
4. SEE IDOT STANDARD DETAIL 643001, SAND MODULE IMPACT ATTENUATORS.



FILE NAME =	USER NAME = \$USER\$	DESIGNED <i>NAV</i>	REVISED
\$FILE\$		DRAWN <i>KES</i>	REVISED
	PLOT SCALE = \$SCALE\$	CHECKED <i>PJO</i>	REVISED
	PLOT DATE = \$DATE\$	DATE <i>05-11-12</i>	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
ILLINOIS ROUTE 59**

SCALE: AS SHOWN SHEET NO. 4 OF 8 SHEETS STA. 3955+00 TO STA. 3969+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-I	DUPAGE	234	27
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				

RIGHT LANE MAY BE CLOSED DURING OFF-PEAK PERIODS ONLY. LANE CLOSURE SHALL BE IN ACCORDANCE WITH IDOT STANDARD 701601

DRUMS OR TYPE II BARRICADES WITH STEADY BURNING LIGHTS SPACED AT 25' C-C (TYP.)

PROPOSED RETAINING WALL SN 022-W046 STA. 3966+05 TO STA. 3971+00

CHANNELIZATION DRUMS WITH STEADY BURNING LIGHTS SPACED AT 25' C-C








EXISTING PAVEMENT MARKING TYP.

SIGN TO BE SETUP ONLY WHEN OFF-PEAK LANE CLOSURE IS IN EFFECT (SEE IDOT STANDARD 701601)

MATCH LINE STA. 3969+00

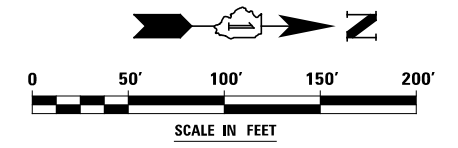
MATCH LINE STA. 3983+00

LEGEND

-  CONSTRUCTION WORK ZONE
-  DIRECTION OF TRAFFIC
-  TYPE II BARRICADES OR DRUMS
-  CHANNELIZATION DRUM
-  SIGN LOCATION
-  TYPE III BARRICADE LOCATION
-  FLASHING YELLOW LIGHT

NOTES

1. EXISTING LANE CONFIGURATIONS ARE TO REMAIN IN OPERATION DURING THIS STAGE OF CONSTRUCTION.
2. SEE CROSS SECTIONS FOR GRADING DETAILS.



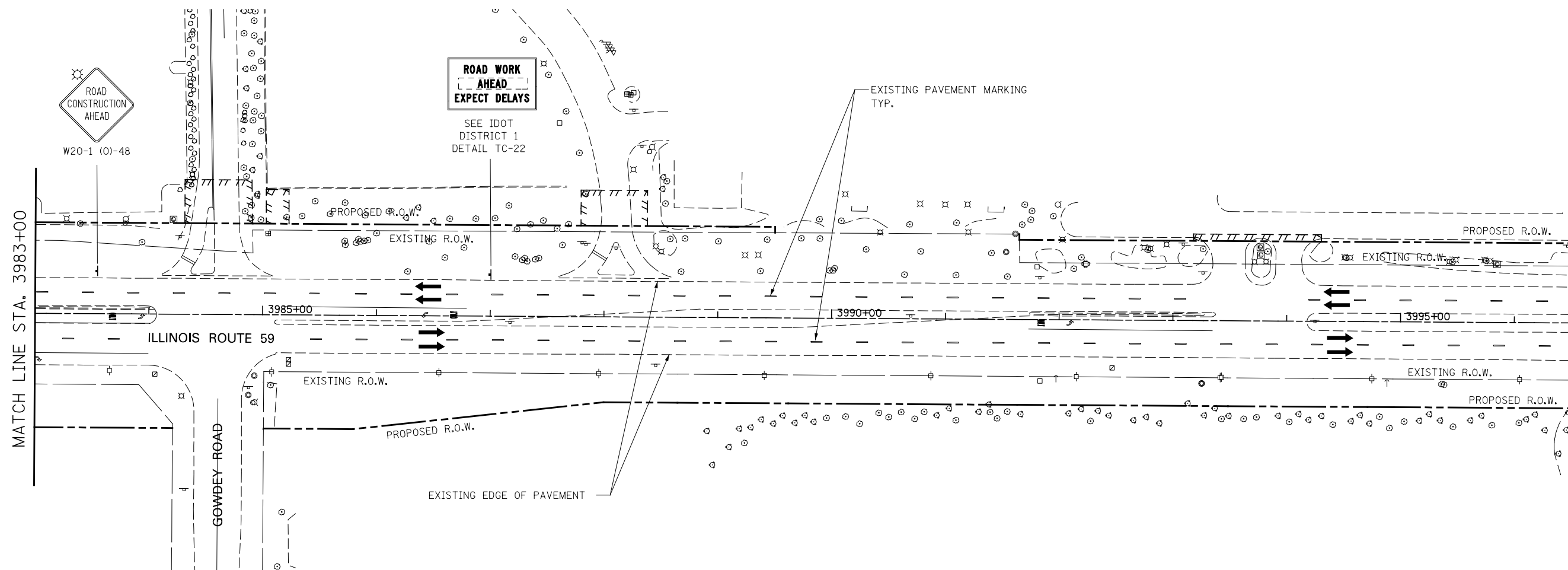
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*FILEL\$		DRAWN <i>KES</i>	REVISED
	PLOT SCALE = \$SCALE\$	CHECKED <i>PJO</i>	REVISED
	PLOT DATE = \$DATE\$	DATE <i>05-11-12</i>	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**








**MAINTENANCE OF TRAFFIC
ILLINOIS ROUTE 59**

SCALE: AS SHOWN SHEET NO. 5 OF 8 SHEETS STA. 3969+00 TO STA. 3983+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-I	DUPAGE	234	28
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				

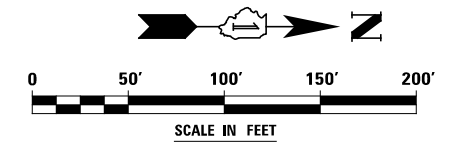


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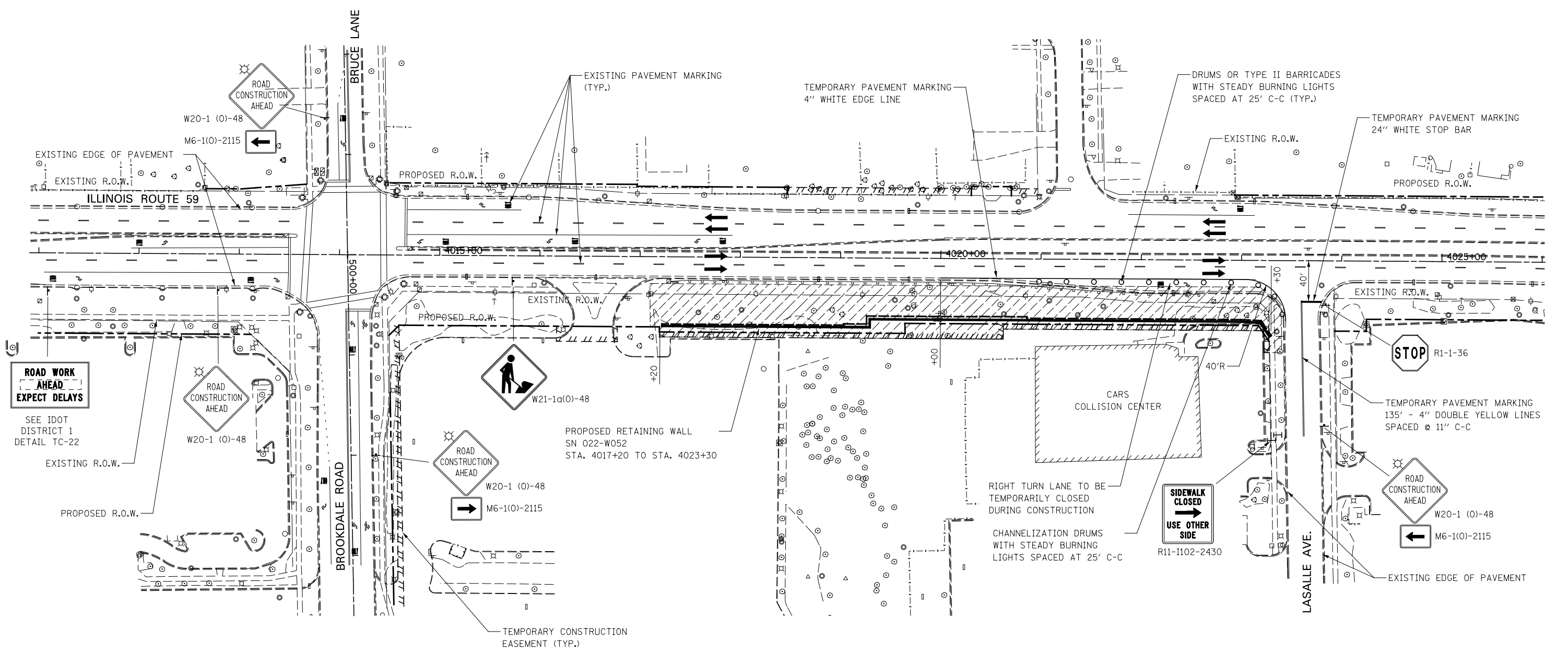
-  CONSTRUCTION WORK ZONE
-  DIRECTION OF TRAFFIC
-  TYPE II BARRICADES OR DRUMS
-  CHANNELIZATION DRUM
-  SIGN LOCATION
-  TYPE III BARRICADE LOCATION
-  FLASHING YELLOW LIGHT

NOTES

1. EXISTING LANE CONFIGURATIONS ARE TO REMAIN IN OPERATION DURING THIS STAGE OF CONSTRUCTION.










FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED <i>NAV</i>	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC ILLINOIS ROUTE 59	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN <i>KES</i>	REVISED			338	2011-036-I	DUPAGE	234	29	
		CHECKED <i>PJO</i>	REVISED			CONTRACT NO. 60P42					
		DATE <i>05-11-12</i>	REVISED			ILLINOIS FED. AID PROJECT					
				SCALE: AS SHOWN		SHEET NO. 6 OF 8 SHEETS		STA. 3983+00 TO STA. 3996+50			



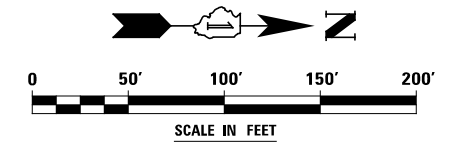
ROAD WORK AHEAD EXPECT DELAYS
SEE IDOT DISTRICT 1 DETAIL TC-22

LEGEND

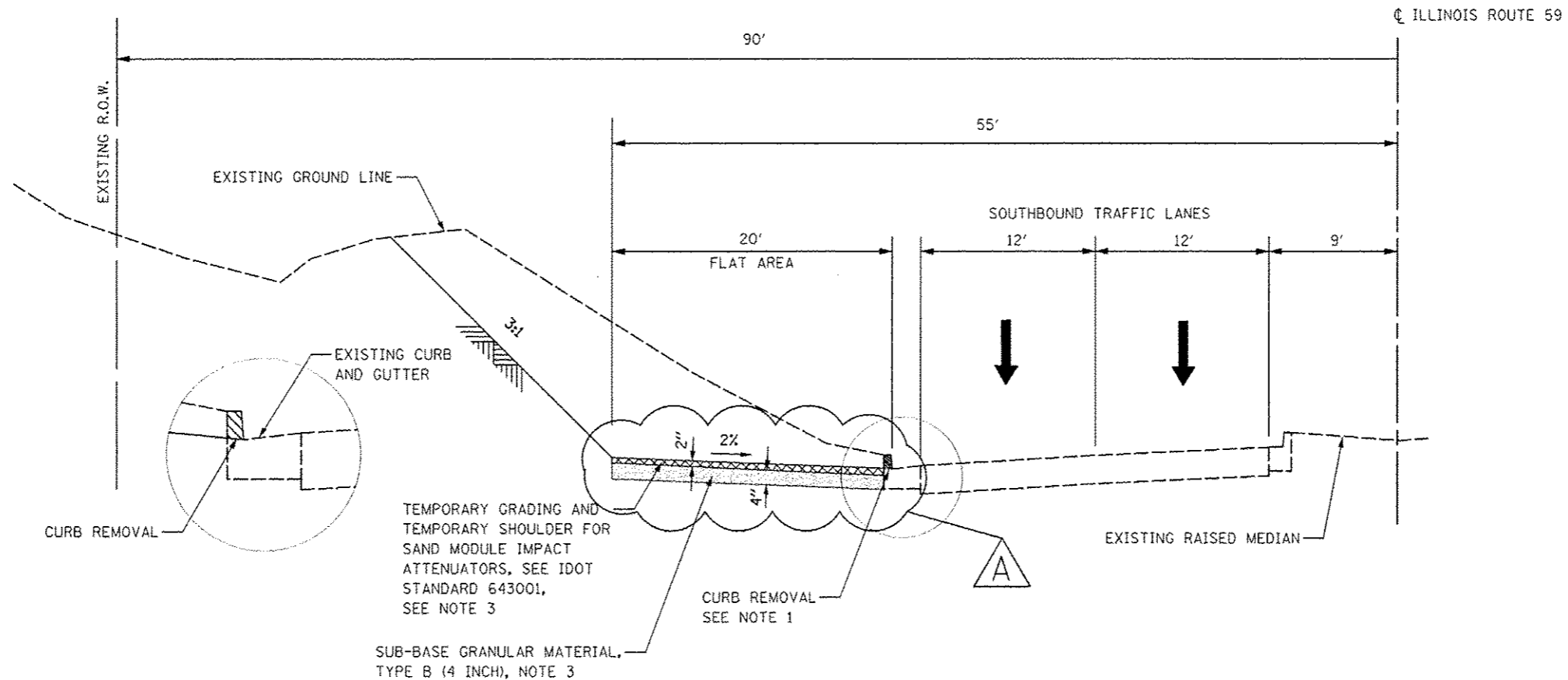
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-  DIRECTION OF TRAFFIC
-  TYPE II BARRICADES OR DRUMS
-  CHANNELIZATION DRUM
-  SIGN LOCATION
-  TYPE III BARRICADE LOCATION
-  FLASHING YELLOW LIGHT

NOTES

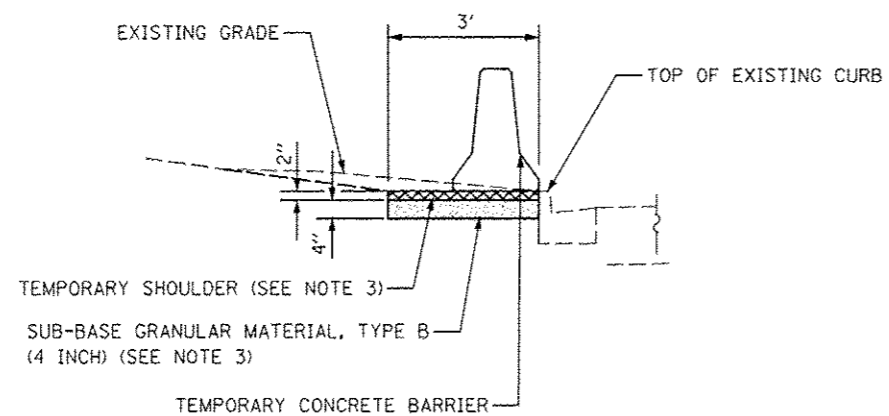
1. EXISTING LANE CONFIGURATIONS ARE TO REMAIN IN OPERATION DURING THIS STAGE OF CONSTRUCTION.
2. SEE CROSS SECTIONS FOR GRADING DETAILS.



FILE NAME = *FILE*	USER NAME = *USER*	DESIGNED <i>NAV</i>	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC ILLINOIS ROUTE 59	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN <i>KES</i>	REVISED			338	2011-036-I	DUPAGE	234	30	
		CHECKED <i>PJO</i>	REVISED			CONTRACT NO. 60P42					
		DATE <i>05-11-12</i>	REVISED			ILLINOIS FED. AID PROJECT					
				SCALE: AS SHOWN		SHEET NO. 7 OF 8 SHEETS		STA. 4011+00 TO STA. 4026+00			



**GRADING AND TEMPORARY SHOULDER FOR IMPACT ATTENUATOR
STA. 3966+30 TO STA. 3968+00**



**TEMPORARY CONCRETE BARRIER PLACEMENT
STA. 3959+50 TO STA. 3966+30**

NOTE

1. THE REMOVAL OF THE EXISTING CURB HEAD AND ANY ADDITIONAL GRADING REQUIRED FOR THE PLACEMENT OF THE IMPACT ATTENUATOR AND TEMPORARY CONCRETE BARRIER SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY SHOULDERS.
2. SEE IDOT STANDARD DETAIL 643001, SAND MODULE IMPACT ATTENUATORS.
3. SUB-BASE GRANULAR MATERIAL, TYPE B SHALL BE INCLUDED IN THE COST FOR TEMPORARY SHOULDER AND WILL NOT BE PAID FOR SEPERATELY. THE REMOVAL OF TEMPORARY SHOULDER AND SUB-BASE GRANULAR MATERIAL, TYPE B SHALL ALSO BE INCLUDED IN THE COST FOR TEMPORARY SHOULDERS.

FILE NAME :	USER NAME : #USER#	DESIGNED NAV	REVISED Addendum A-07-23-12	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN KES	REVISED				338	2011-036-1	DUPAGE	234	31
		CHECKED PJO	REVISED		SCALE: AS SHOWN SHEET NO. 8 OF 8 SHEETS STA. TO STA.		CONTRACT NO. 60P42				
		DATE 05-11-12	REVISED		ILLINOIS FED. AID PROJECT						

Bench Mark: Square "□" cut in west face of high tension tower base, east side of IL Rte 59
Sta. 3905+18, 79' Rt., Elev. 696.82

Existing Structure: None

INDEX OF SHEETS

- SA-1. General Plan & Elevation
- SA-2. Wall Plan & Elevation
- SA-3. Wall Section & Details
- SA-4. Details of Wall at Existing Retaining Wall
- SA-5. Parapet Railing
- SA-6. Boring Logs

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

DESIGN STRESSES

FIELD UNITS

- $f'_c = 3,500$ psi
- $f_y = 60,000$ psi (reinforcement)
- $f_y = 36,000$ psi (M270 Grade 36)

STATION 3913+83.48
BUILT 2011 BY
STATE OF ILLINOIS
F.A.P. RT. 338
SEC. 2011-036-1
STR. NO. 022-W043

NAME PLATE

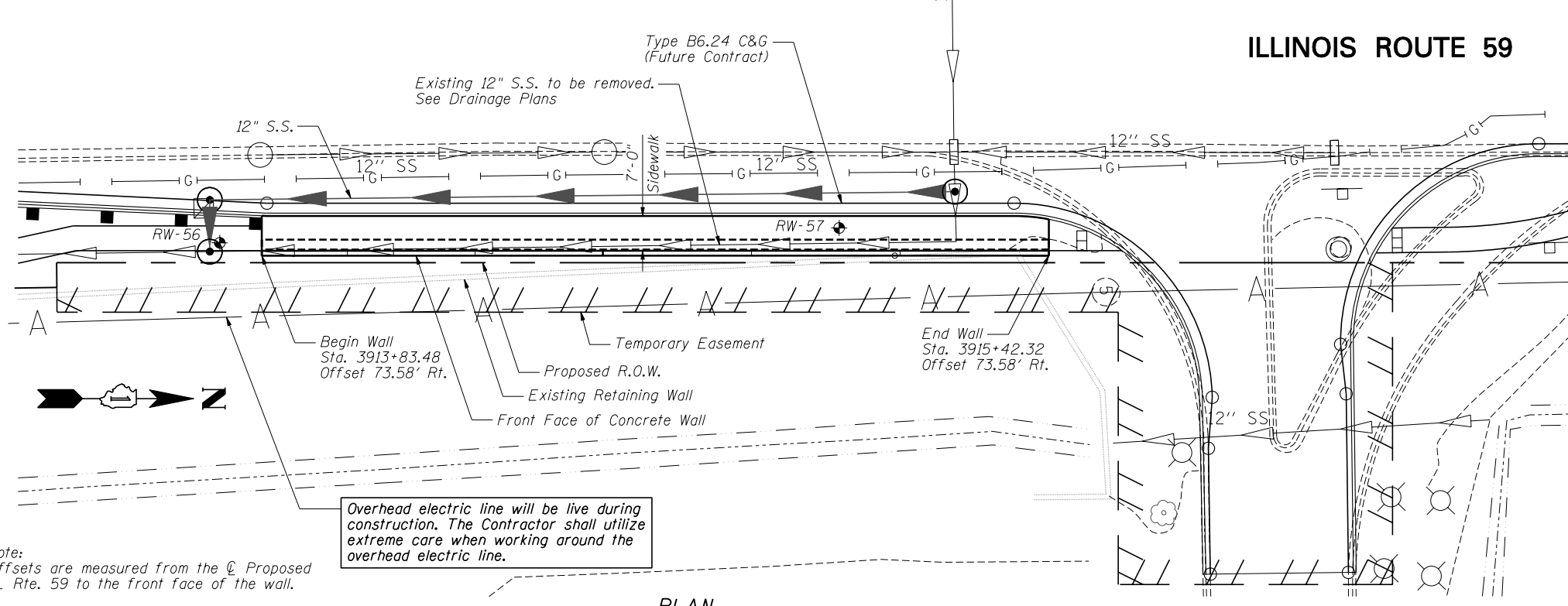
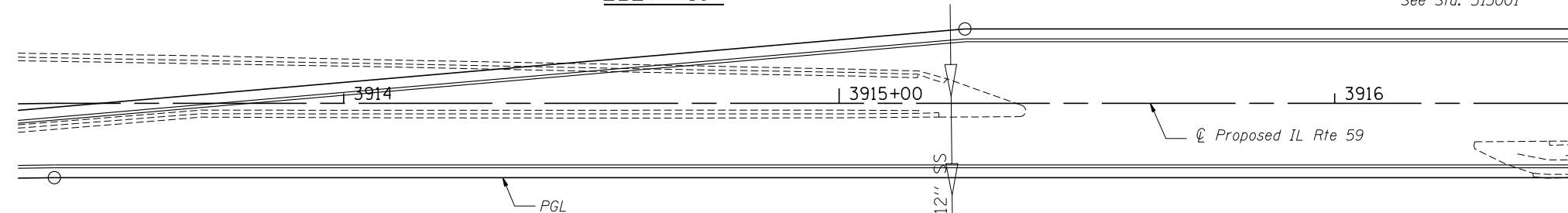
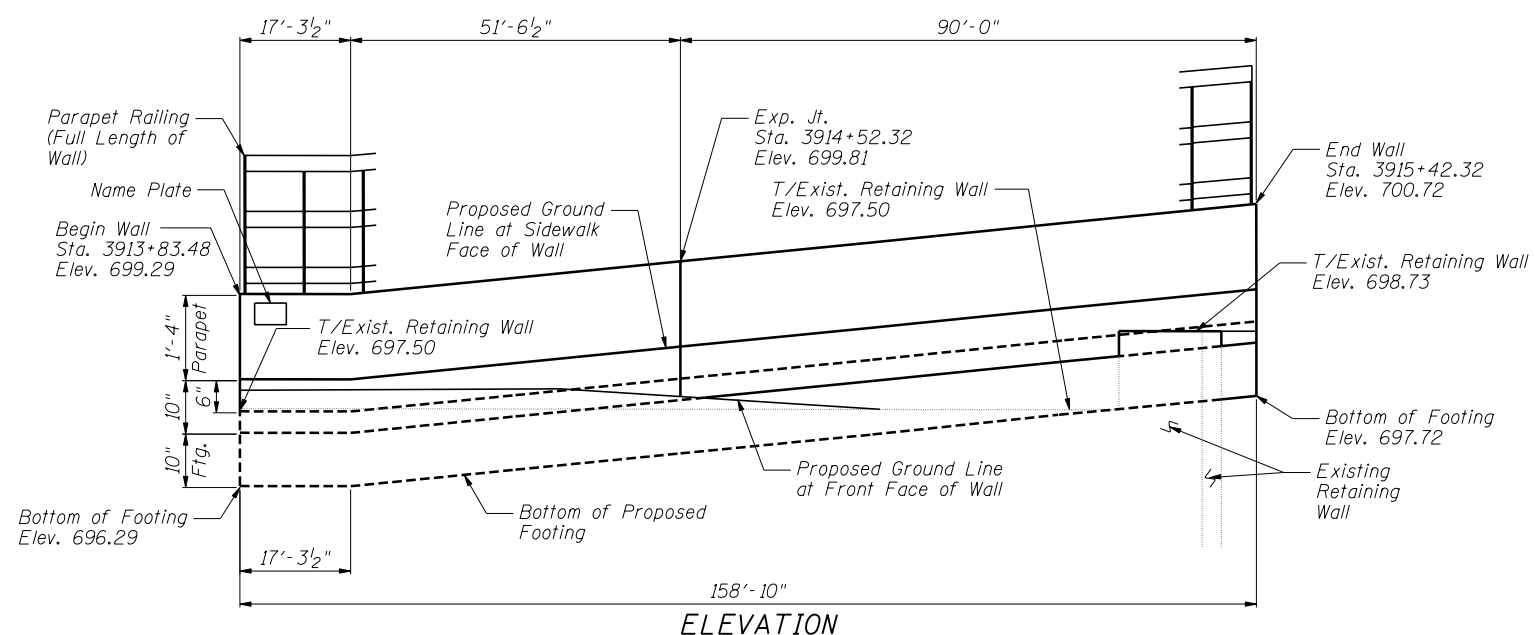
See Std. 515001

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Protective coat shall be applied to exposed surfaces of the top and back face of wall and the top of the sidewalk.
3. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	46
Concrete Structures	Cu. Yd.	47.9
Protective Coat	Sq.Yd.	165
Reinforcement Bars, Epoxy Coated	Pound	7,510
Name Plates	Each	1
Parapet Railing	Foot	159



Note:
Offsets are measured from the ϕ Proposed IL Rte. 59 to the front face of the wall.

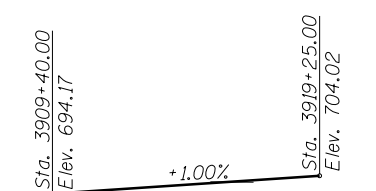
Roadway work will be in future Contract 60R30.

PLAN

ILLINOIS ROUTE 59

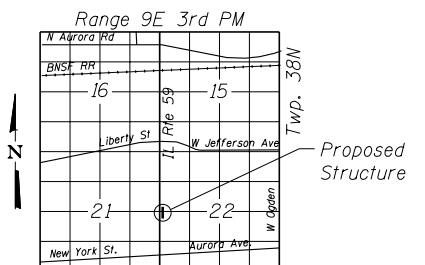


Signature: *Deborah A. Zroka*
Date: Mar. 7, 2012
Expires: November 30, 2012



PROFILE GRADE

(along edge of pavement proposed IL Route 59)



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
IL RTE 59 FAP RTE 338
SECTION 2011-036-1
DUPAGE COUNTY
STA. 3913+83.48 TO STA. 3915+42.32
SN 022-W043

FILE NAME = ...60P42-W043-001-GPE.dgn



Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

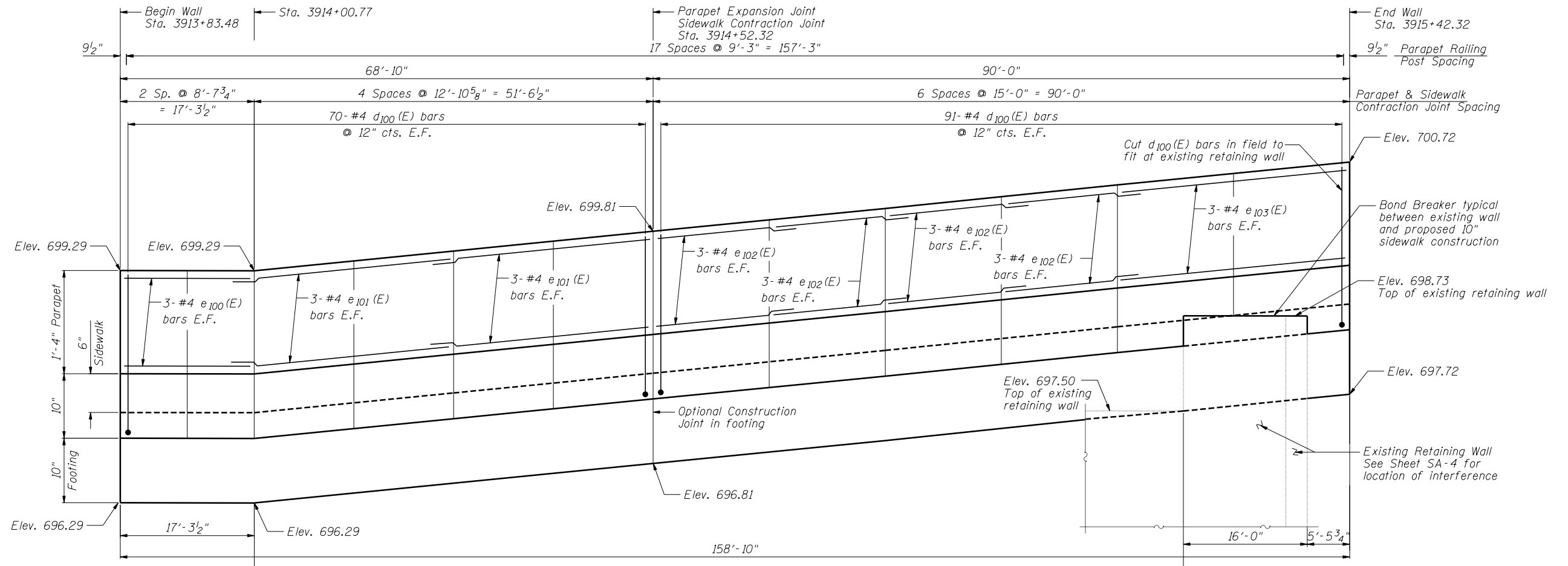
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PLOT DATE = 5/4/2012	DRAWN - SAW	REVISED -
	CHECKED - PMM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

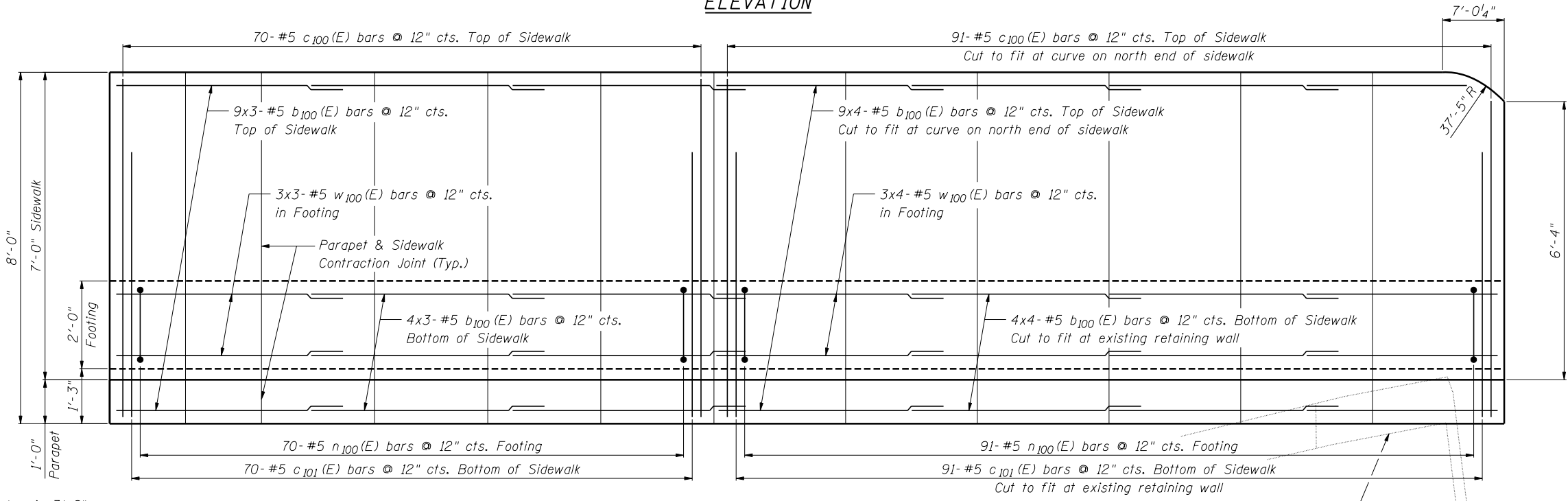
GENERAL PLAN & ELEVATION
STA. 3913 + 83.48 TO STA. 3915 + 42.32 SN 022-W043

SHEET NO. SA-1 OF SA-6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	32
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				



ELEVATION



PLAN

Notes:
 Min. lap for #4 bar is 2'-11", #5 bar is 3'-8".
 See Sheet SA-3 for Details and Bill of Material.
 Bars indicated thus: 4x3-#5 etc. indicates 4 lines of bars with 3 lengths per line.
 Vertical scale exaggerated for clarity.
 Parapet Contraction joint shall consist of 3/4" chamfers on front, back, and top side of parapet.
 Optional full depth construction joint with 1/2" chamfers may be provided in sidewalk placed at a contraction joint location.

WALL PLAN AND ELEVATION
 SN 022-W043



USER NAME = SAW	DESIGNED - PMM	REVISED -
	CHECKED - DAZ	REVISED -
PLOT SCALE = 15.00' / IN.	DRAWN - SAW	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

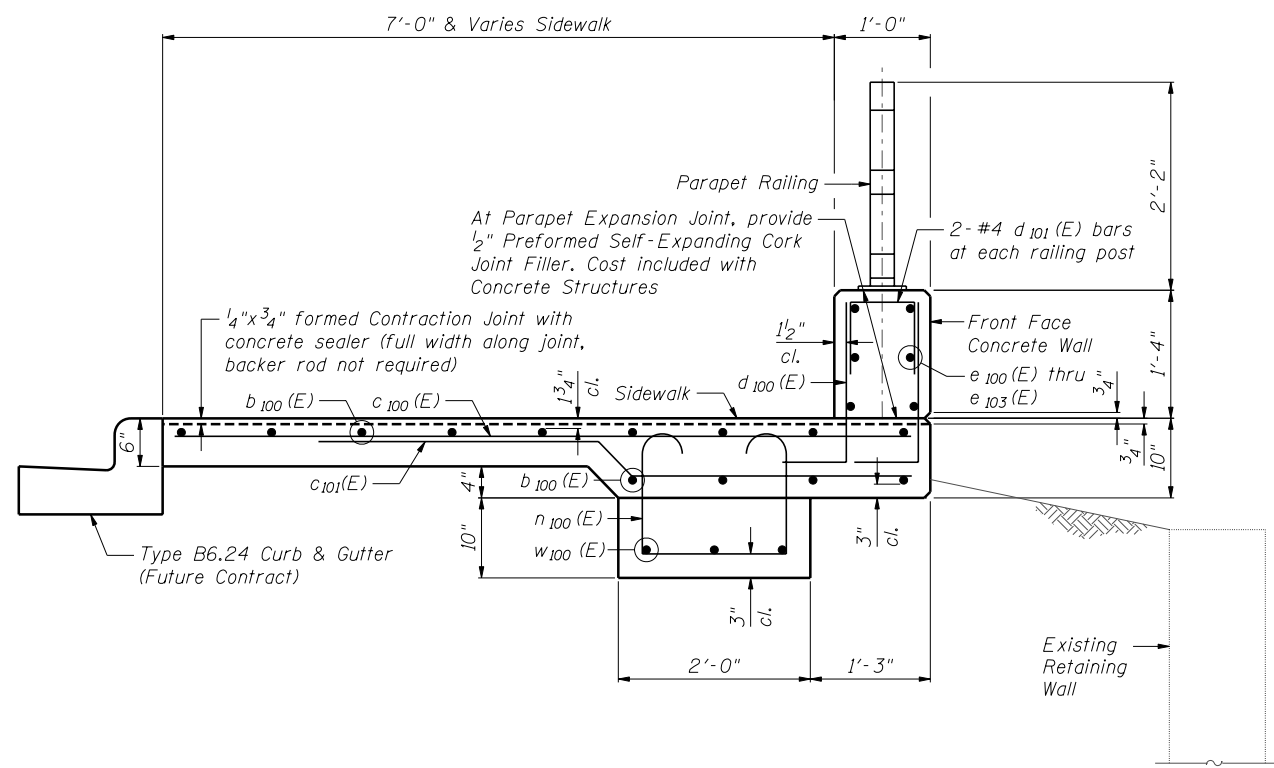
WALL PLAN & ELEVATION
 STA. 3913 + 83.48 TO STA. 3915 + 42.32 SN 022-W043

F.A.P. RTE. 338	SECTION 2011-036-1	COUNTY DUPAGE	TOTAL SHEETS 234	SHEET NO. 33
CONTRACT NO. 60P42				

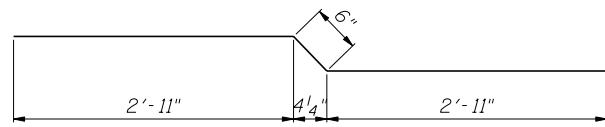
SHEET NO. SA-2 OF SA-6 SHEETS

ILLINOIS FED. AID PROJECT

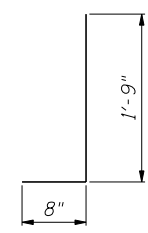
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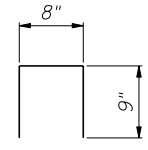
PROPOSED SIDEWALK FOUNDATION SECTION
 Maximum Soil Bearing Pressure = 630 psf



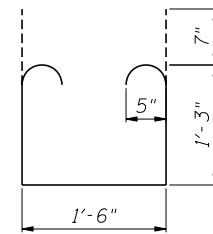
BAR c101(E)



BAR d100(E)



BAR d101(E)



BAR n100(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b ₁₀₀ (E)	91	#5	25'-10"	—
c ₁₀₀ (E)	161	#5	7'-8"	—
c ₁₀₁ (E)	161	#5	6'-4"	┌
d ₁₀₀ (E)	330	#4	2'-5"	┌
d ₁₀₁ (E)	36	#4	2'-2"	┌
e ₁₀₀ (E)	6	#4	17'-0"	—
e ₁₀₁ (E)	12	#4	28'-8"	—
e ₁₀₂ (E)	24	#4	17'-11"	—
e ₁₀₃ (E)	6	#4	29'-8"	—
n ₁₀₀ (E)	161	#5	5'-2"	┌
w ₁₀₀ (E)	21	#5	25'-10"	—
Item		Unit	Quantity	
Concrete Structures		Cu. Yd.	47.9	
Reinforcement Bars (Epoxy Coated)		Pound	7,510	

WALL SECTION AND DETAILS
SN 022-W043

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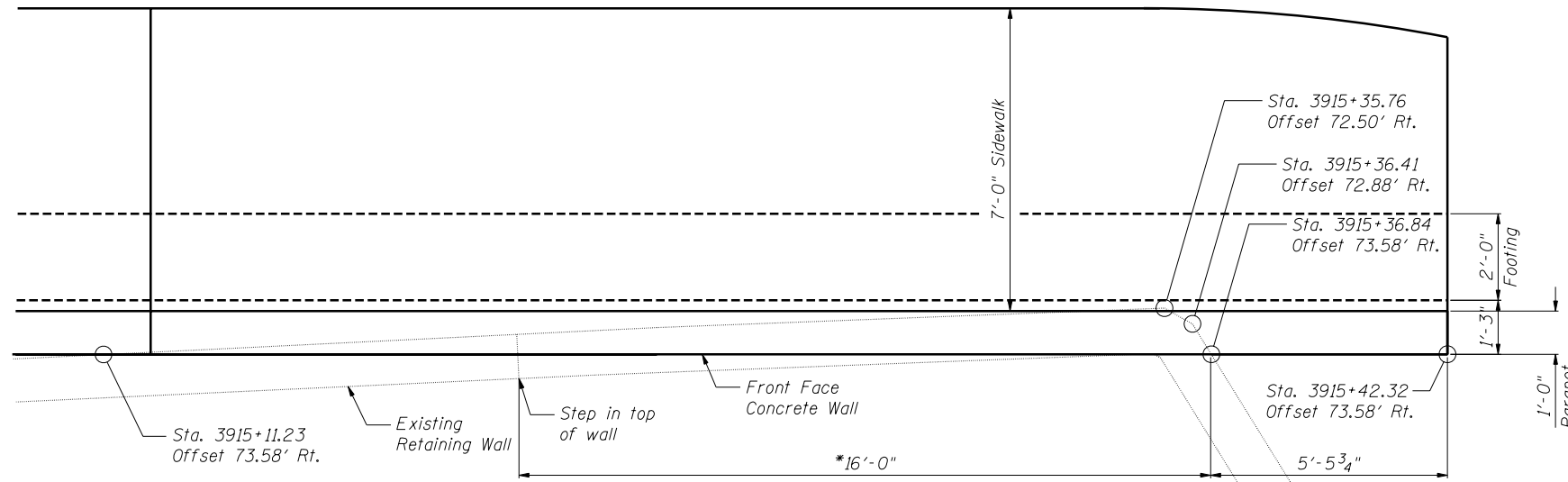
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PLOT DATE = 5/4/2012	CHECKED - PMM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

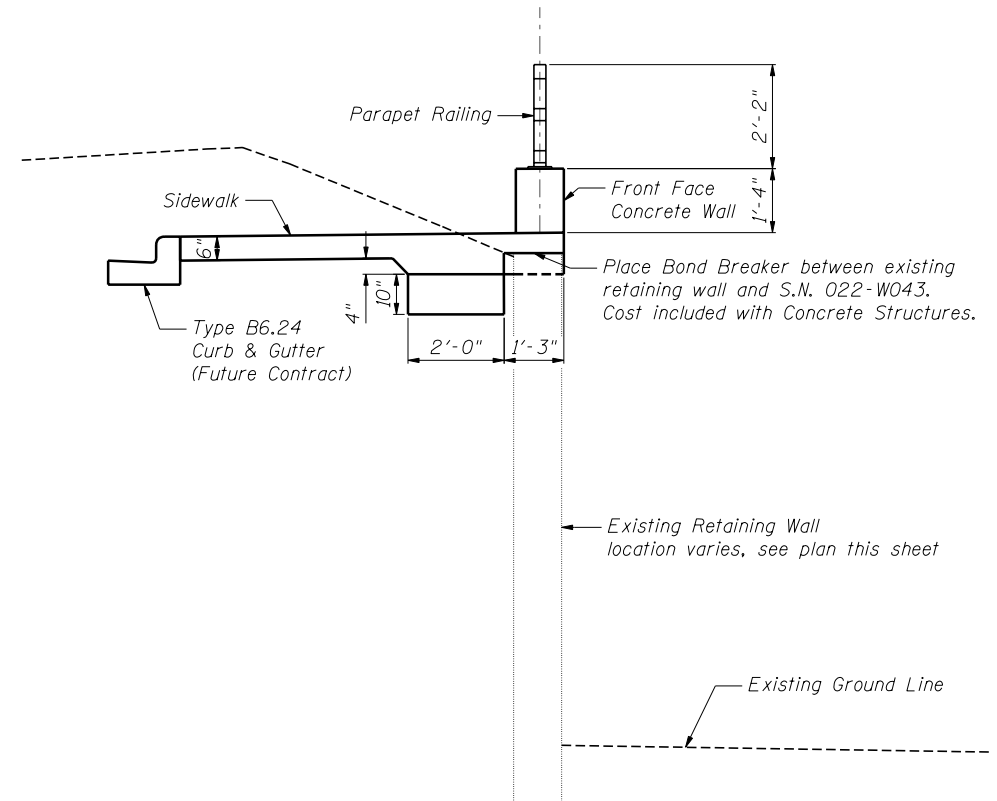
WALL SECTION AND DETAILS
STA. 3913+83.48 TO STA. 3915+42.32 SN 022-W043

SHEET NO. SA-3 OF SA-6 SHEETS

F.A.P. RTE. 338	SECTION 2011-036-1	COUNTY	TOTAL SHEETS 234	SHEET NO. 34
			CONTRACT NO. 60P42	
ILLINOIS FED. AID PROJECT				



**PROPOSED SIDEWALK FOUNDATION
PLAN AT EXISTING WALL**



**PROPOSED SIDEWALK FOUNDATION
SECTION AT EXISTING WALL**

**DETAILS OF WALL AT
EXISTING RETAINING WALL
SN 022-W043**

FILE NAME = ...EGP42-W043-004-Details.dgn



Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

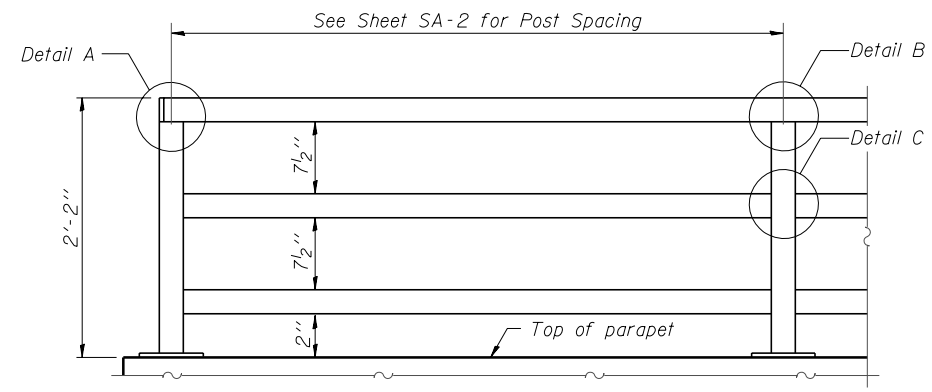
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

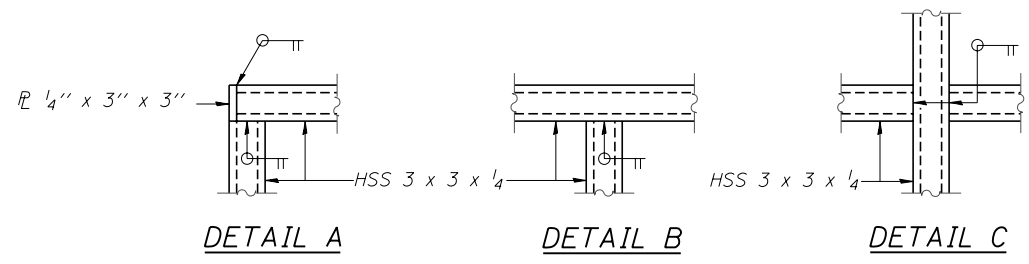
**DETAILS OF WALL AT EXISTING RETAINING WALL
STA. 3913+83.48 TO STA. 3915+42.32 SN 022-W043**

SHEET NO. SA-4 OF SA-6 SHEETS

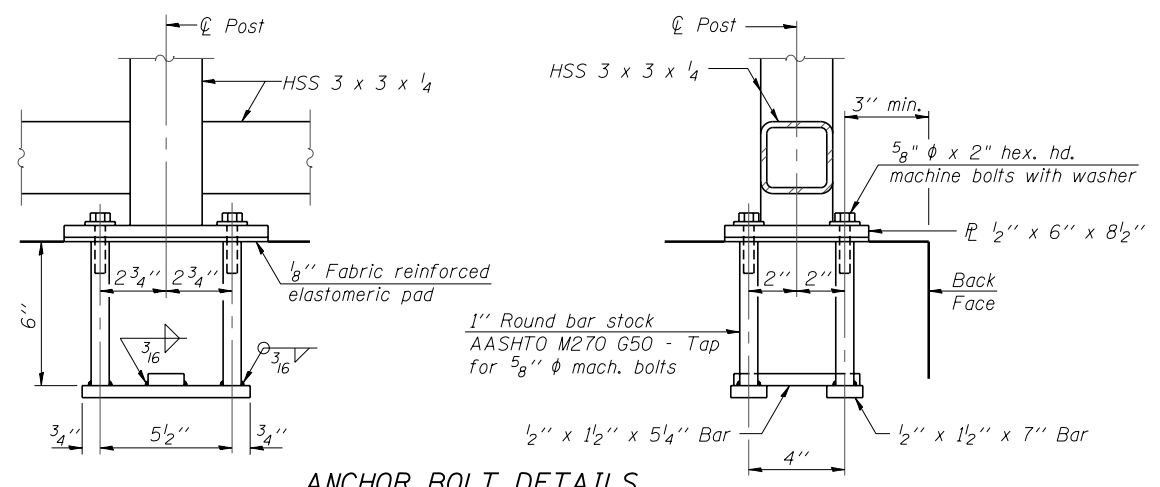
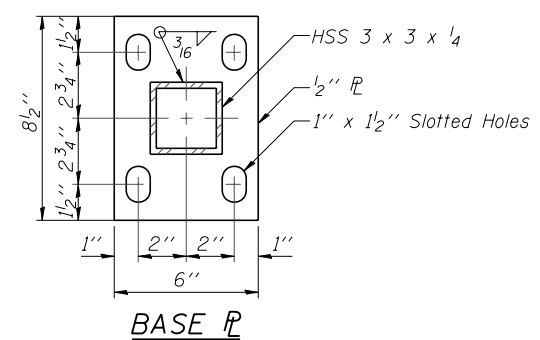
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	35
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				



**PARAPET RAILING
ELEVATION**
(Inside Face of Three Element Rail)

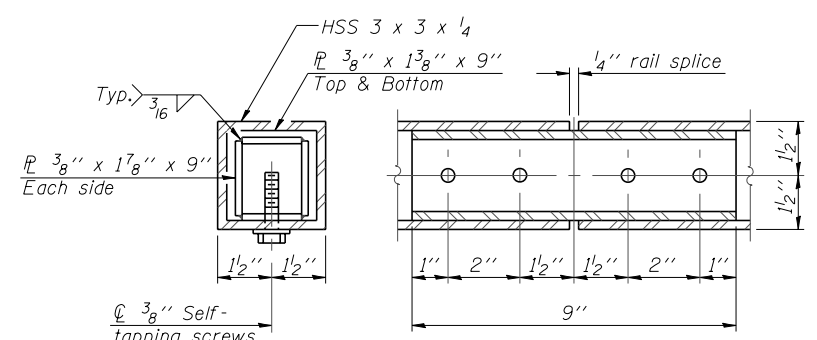


All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



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.



RAIL SPLICE

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing	Foot	159

**PARAPET RAILING
SN 022-W043**

FILE NAME = ...EGP42-W043-005-ParapetRailing.dgn



USER NAME = SAW	DESIGNED - LAS	REVISED -
PLOT SCALE = 0.17' / IN.	CHECKED - DAZ	REVISED -
PLOT DATE = 5/4/2012	DRAWN - SAW	REVISED -
	CHECKED - LAS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PARAPET RAILING
STA. 3913 + 83.48 TO STA. 3915 + 42.32 SN 022-W043**

SHEET NO. SA-5 OF SA-6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	36
CONTRACT NO. 60P42				

ILLINOIS FED. AID PROJECT

BORING LOG RW-56

PAGE 1 of 1
DATE 5/18/2011
LOGGED BY MD
GSI JOB No. 09173

SOIL BORING LOG

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-3838

ROUTE Il. Route 59 (FAP 338) DESCRIPTION Illinois Route 59-Aurora Avenue/New York Street To Ferry Road
SECTION (112 & 113) WRS-5 LOCATION SEC. 3, 9-10, 15-16, 21-22 TWP. 38N, RNG. 9E, Naperville Township
COUNTY DuPage DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. XX Station: XX
BORING NO. RW-56 Station: 3913+74 IL RTE-59
Offset: 71.0' Right
Ground Surface Elev. 698.0

DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)	Description	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elevation:
									n/a	n/a	First Encounter
0				SAND, GRAVEL, CLAY & STONE (Fill)	0				697.0		677.0
10				SAND & GRAVEL-gray-medium dense (A-1)	10				695.0		674.5
16	4.6B	16	116	CLAY LOAM-brown & gray-very stiff to hard (A-6)	16	4.6B	16	116			670.0
17	6.5B	17	112	Silty SAND & GRAVEL-gray-loose (A-2)	17	6.5B	17	112			687.5
14	3.25P	14	125	CLAY LOAM-gray-medium dense (A-4)	14	3.25P	14	125			666.0
11	2.0B	11	118	CLAY to CLAY LOAM-gray-very stiff (A-6)	11	2.0B	11	118			663.0
19	2.25P	19	118	CLAY to CLAY LOAM-gray-very stiff (A-6)	19	2.25P	19	118			663.0
13	2.25B	13	118	CLAY to CLAY LOAM-gray-very stiff (A-6)	13	2.25B	13	118			663.0

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B)-Bulge, (S)-Shear, (P)-Penetrometer, (ST)-Shelby Tube Sample, (VS)-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in Italics above moist (%)
NR-No Recovery

BORING LOG RW-57

PAGE 1 of 1
DATE 5/18/2011
LOGGED BY MD
GSI JOB No. 09173

SOIL BORING LOG

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-3838

ROUTE Il. Route 59 (FAP 338) DESCRIPTION Illinois Route 59-Aurora Avenue/New York Street To Ferry Road
SECTION (112 & 113) WRS-5 LOCATION SEC. 3, 9-10, 15-16, 21-22 TWP. 38N, RNG. 9E, Naperville Township
COUNTY DuPage DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. XX Station: XX
BORING NO. RW-57 Station: 3915+00 IL RTE-59
Offset: 68.0' Right
Ground Surface Elev. 698.7

DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)	Description	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elevation:
									n/a	n/a	First Encounter
0				SILTY CLAY-dark brown & black (Fill)	0				697.7		678.2
18				CLAY to CLAY LOAM (A-6)	18						678.2
19	3.4B	19	109	SAND & GRAVEL-gray-medium dense (A-1-b)	19	3.4B	19	109			673.2
17	1.25P	17	106	CLAY to CLAY LOAM-brown & gray-stiff to hard (A-6)	17	1.25P	17	106			673.2
21	2.9B	21	109	CLAY-gray-medium stiff to stiff (A-6)	21	2.9B	21	109			666.7
20	4.25B	20	118	CLAY LOAM-gray-dense (A-4)	20	4.25B	20	118			666.7
16	3.9B	16	113	CLAY to CLAY LOAM-gray-very stiff to hard (A-6)	16	3.9B	16	113			663.7
17	2.4B	17	111	CLAY to CLAY LOAM-gray-very stiff to hard (A-6)	17	2.4B	17	111			663.7
16	4.2B	16	111	CLAY to CLAY LOAM-gray-very stiff to hard (A-6)	16	4.2B	16	111			663.7

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B)-Bulge, (S)-Shear, (P)-Penetrometer, (ST)-Shelby Tube Sample, (VS)-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in Italics above moist (%)
NR-No Recovery

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CHECKED - DAZ	REVISIONS -	
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PLOT DATE = 5/4/2012	CHECKED - PMM	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS
STA. 3913+83.48 TO STA. 3915+42.32 SN 022-W043**

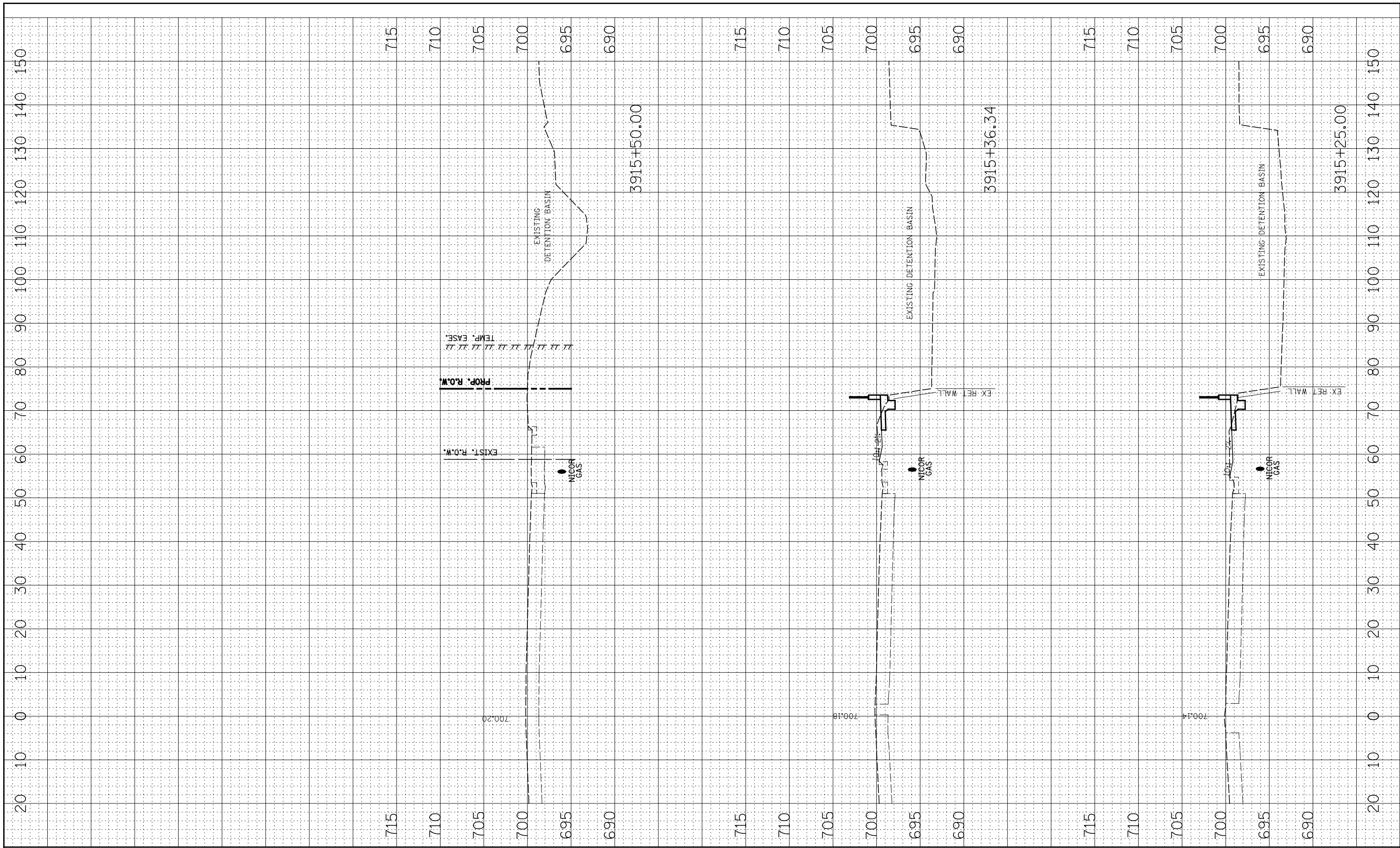
SHEET NO. SA-6 OF SA-6 SHEETS

F.A.P. RTE. 338	SECTION 2011-036-1	COUNTY DUPAGE	TOTAL SHEETS 234	SHEET NO. 37
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				

BORING LOGS
SN 022-W043

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

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



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FILEL

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DESIGNED - NAV
DRAWN - KES
PLOT SCALE = *SCALE*
PLOT DATE = *DATE*

REVISIED -
REVISIED -
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REVISIED -

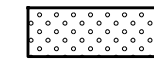
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 022-W043
CROSS-SECTIONS**

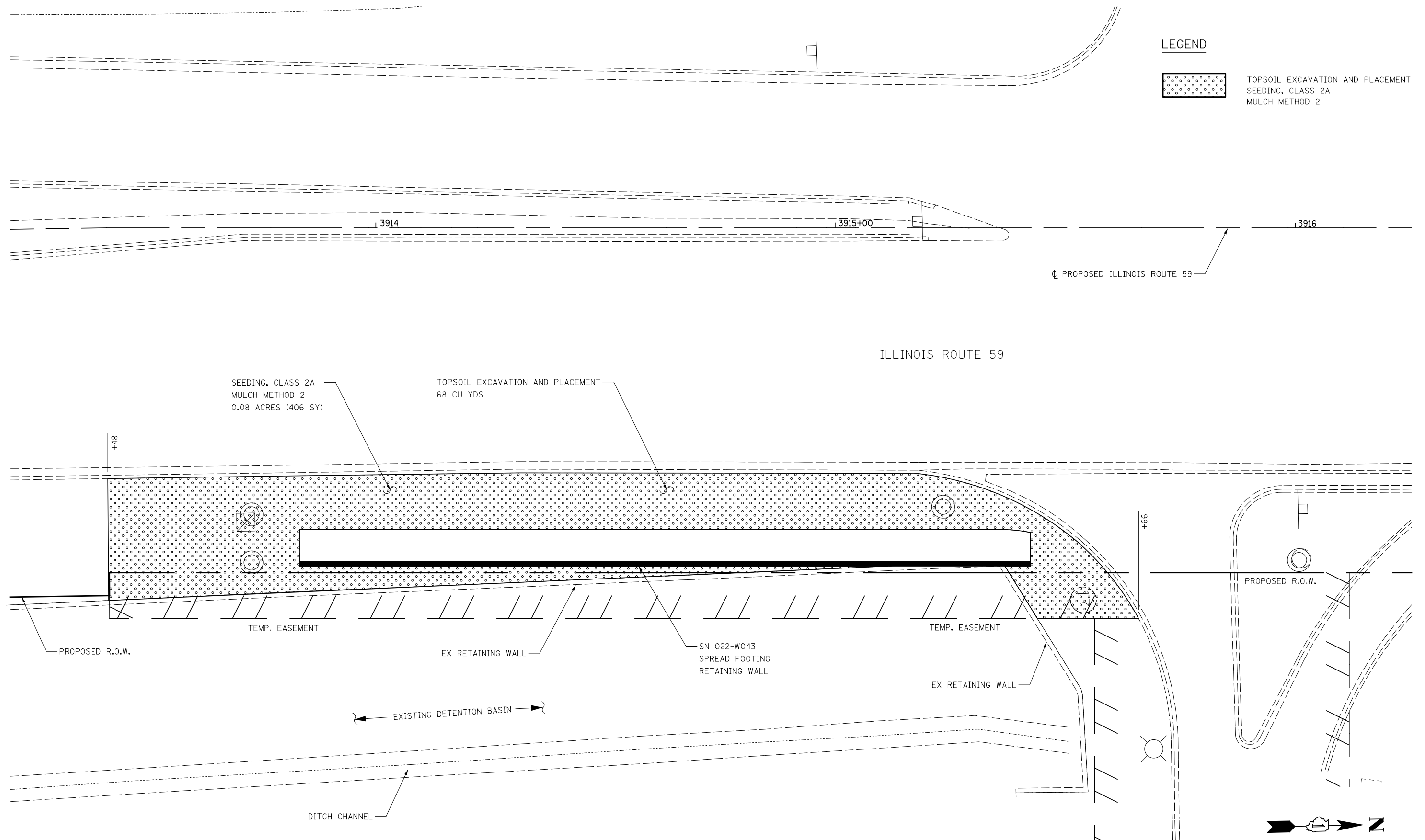
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-I	DUPAGE	234	40
CONTRACT NO. 60P42				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

LEGEND



TOPSOIL EXCAVATION AND PLACEMENT
SEEDING, CLASS 2A
MULCH METHOD 2



SEEDING, CLASS 2A
MULCH METHOD 2
0.08 ACRES (406 SY)

TOPSOIL EXCAVATION AND PLACEMENT
68 CU YDS

ILLINOIS ROUTE 59

+48

+96

TEMP. EASEMENT

EX RETAINING WALL

SN 022-W043
SPREAD FOOTING
RETAINING WALL

TEMP. EASEMENT

EX RETAINING WALL

PROPOSED R.O.W.

EXISTING DETENTION BASIN

DITCH CHANNEL



SCALE IN FEET

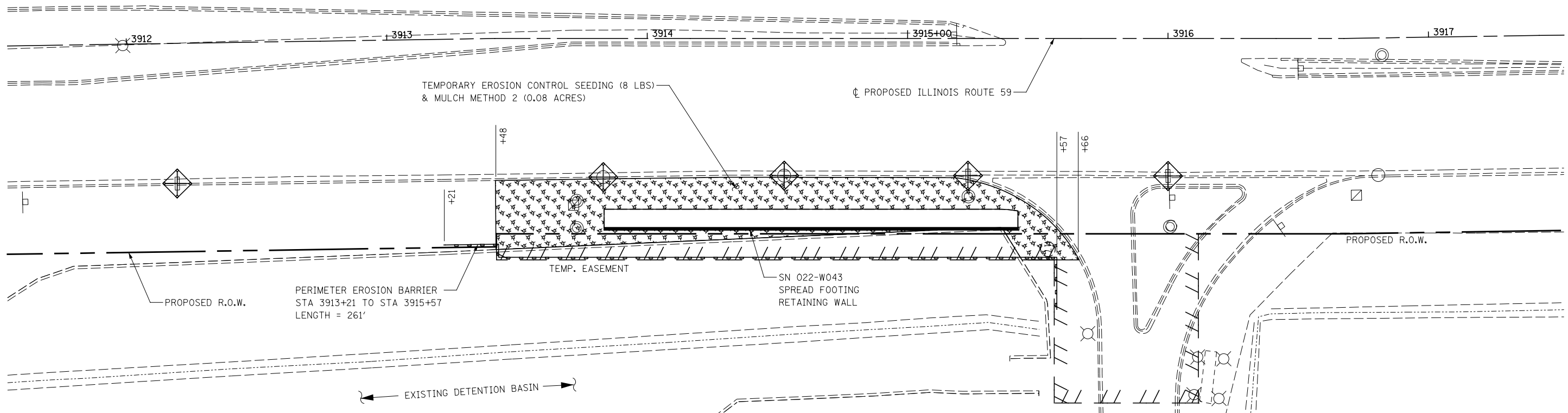
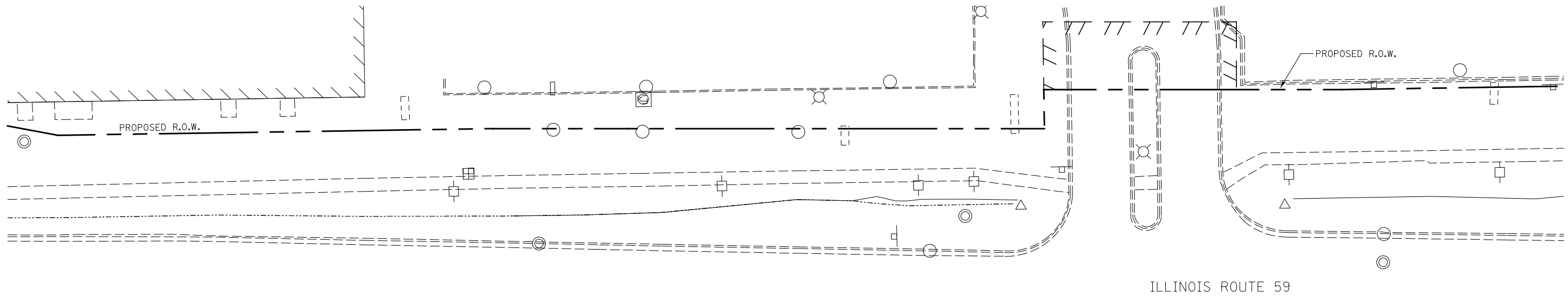
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	PLOT DATE = \$DATE*	DATE <i>05-11-12</i>	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SN 022-W043 - RESTORATION PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-I	DUPAGE	234	41
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				



LEGEND

- TEMPORARY EROSION CONTROL SEEDING
MULCH METHOD 2
- INLET FILTERS
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER

PERIMETER EROSION BARRIER
STA 3913+21 TO STA 3915+57
LENGTH = 261'

TEMPORARY EROSION CONTROL SEEDING (8 LBS)
& MULCH METHOD 2 (0.08 ACRES)

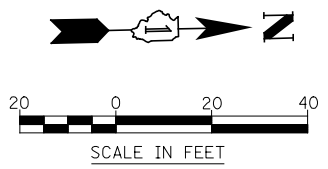
SN 022-W043
SPREAD FOOTING
RETAINING WALL

EXISTING DETENTION BASIN

EX RETAINING WALL

NOTES

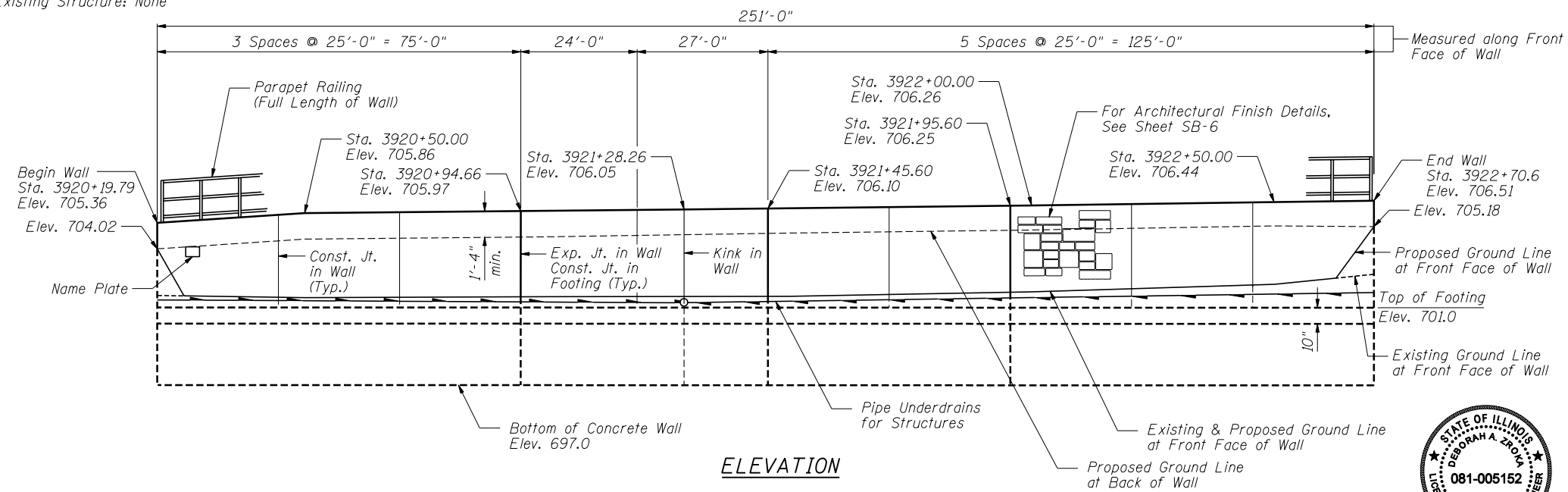
1. SEE SUGGESTED CONSTRUCTION SEQUENCING SHEET FOR CONSTRUCTION ACTIVITY INFORMATION.



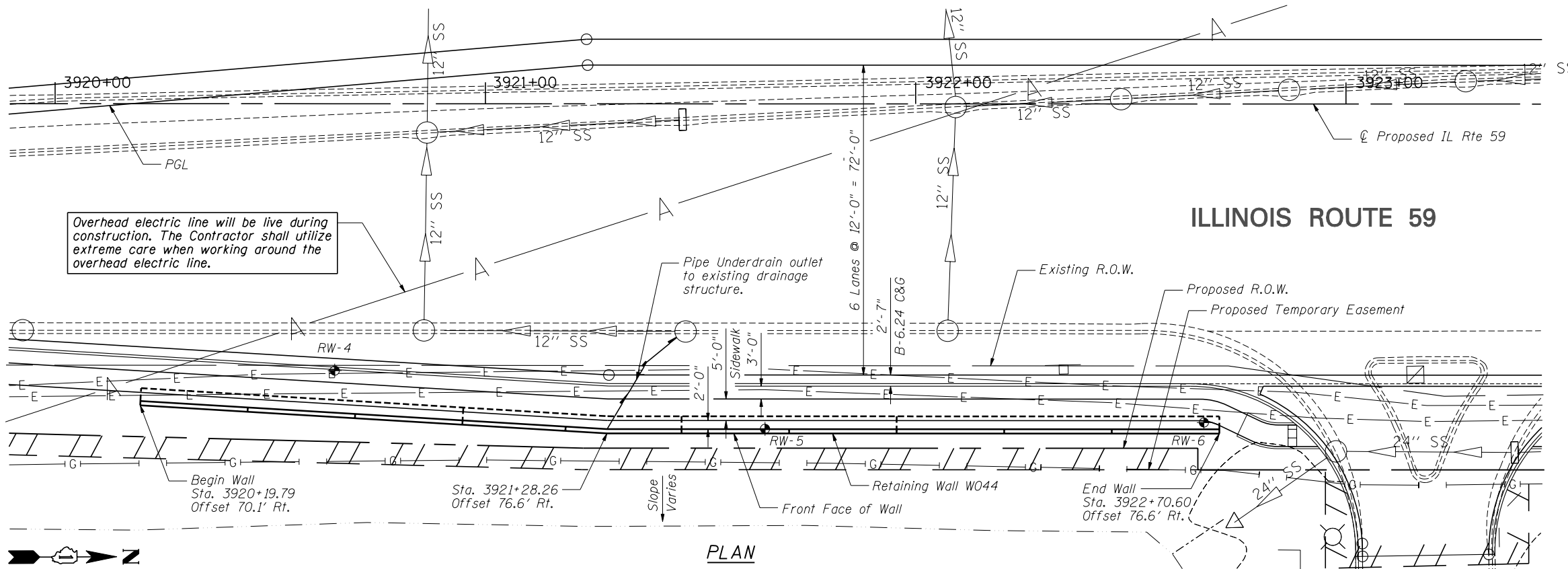
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		CHECKED PJO	REVISED			CONTRACT NO. 60P42					
		DATE 05-11-12	REVISED			ILLINOIS FED. AID PROJECT					
				SCALE: AS SHOWN	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.				

Bench Mark: Square "□" cut in east face of high tension tower base, west side of IL Rte 59, 150' south of entrance to Meijer Foods, Sta. 3923+70, 50.6' Left, Elev. 711.96

Existing Structure: None



ELEVATION



PLAN

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

INDEX OF SHEETS

- SB-1. General Plan & Elevation
- SB-2. Wall Plan & Elevation 1
- SB-3. Wall Plan and Elevation 2
- SB-4. Wall Section & Details
- SB-5. Parapet Railing
- SB-6. Architectural Finish Details
- SB-7. Boring Logs

GENERAL NOTES

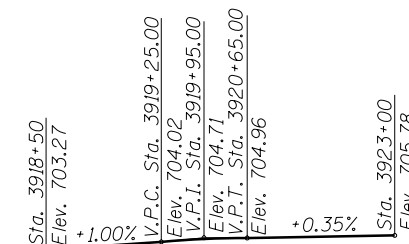
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Protective coat shall be applied to exposed surfaces of the back face and top of wall.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	291
Concrete Structures	Cu. Yd.	107.7
Protective Coat	Sq. Yd.	65
Reinforcement Bars, Epoxy Coated	Pound	8,690
Parapet Railing	Foot	251
Name Plates	Each	1
Geocomposite Wall Drain	Sq. Yd.	68
Pipe Underdrains for Structures, 4"	Foot	278
Form Liner Textured Surface	Sq. Ft.	573
Porous Granular Embankment, Special	Cu. Yd.	86



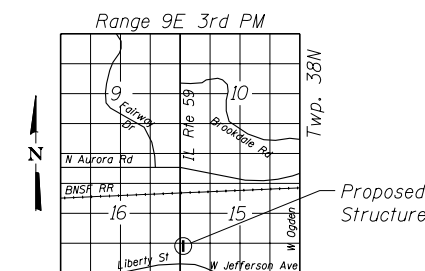
Signature: *Deborah A. Ziock*
 Date: Mar. 7, 2012
 Expires: November 30, 2012



LVC = 140'
PROFILE GRADE
 (along edge of pavement proposed IL Route 59)

STATION 3920+19.79
 BUILT 201. BY
 STATE OF ILLINOIS
 F.A.P. RT. 338
 SEC. 2011-036-1
 STR. NO. 022-W044

NAME PLATE
 See Std. 515001



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
IL RTE 59 FAP RTE 338

SECTION 2011-036-1

DUPAGE COUNTY

STA. 3920+19.79 TO STA. 3922+70.60

SN 022-W044



USER NAME = SAW	DESIGNED - LAS	REVISED -
PLOT SCALE = 38.00' / IN.	CHECKED - DAZ	REVISED -
PLOT DATE = 5/4/2012	DRAWN - SAW	REVISED -
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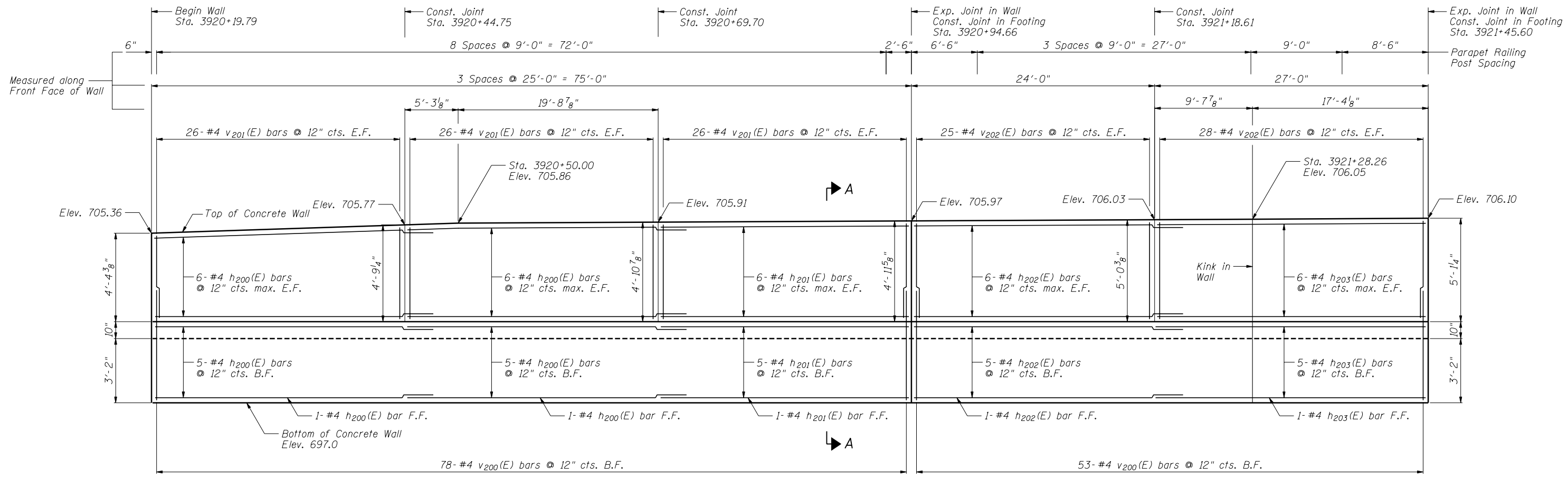
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STA. 3920+19.79 TO STA. 3922+70.60 SN 022-W044

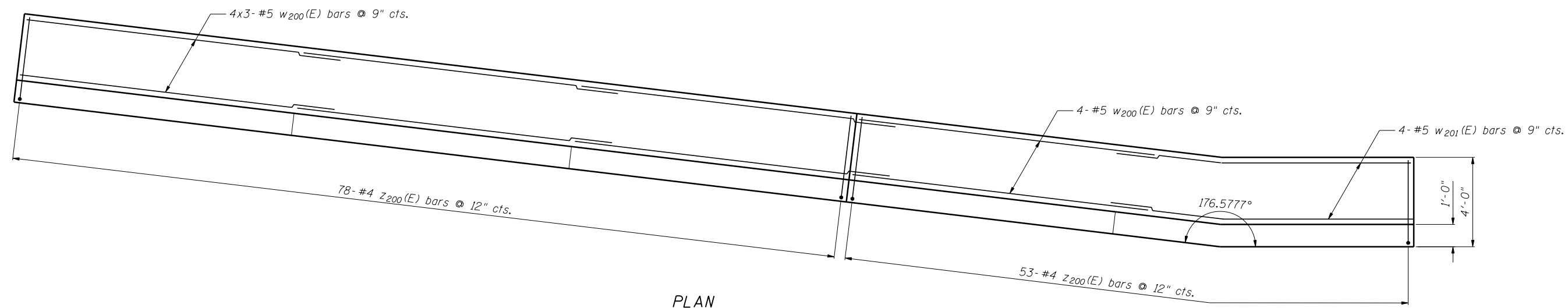
SHEET NO. SB-1 OF SB-7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	43
CONTRACT NO. 60P42				

ILLINOIS FED. AID PROJECT



ELEVATION



PLAN

Notes:
 Minimum lap for #4 bar is 2'-11", #5 bar is 3'-8".
 Bars indicated thus: 4x3#5 etc. indicates 4 lines of bars with 3 lengths per line.
 See Sheet SB-4 for Section A-A, Details and Bill of Material.

WALL PLAN AND ELEVATION 1
 SN 022-W044



USER NAME = SAW	DESIGNED - LAS	REVISED -
CHECKED - DAZ	CHECKED - DAZ	REVISED -
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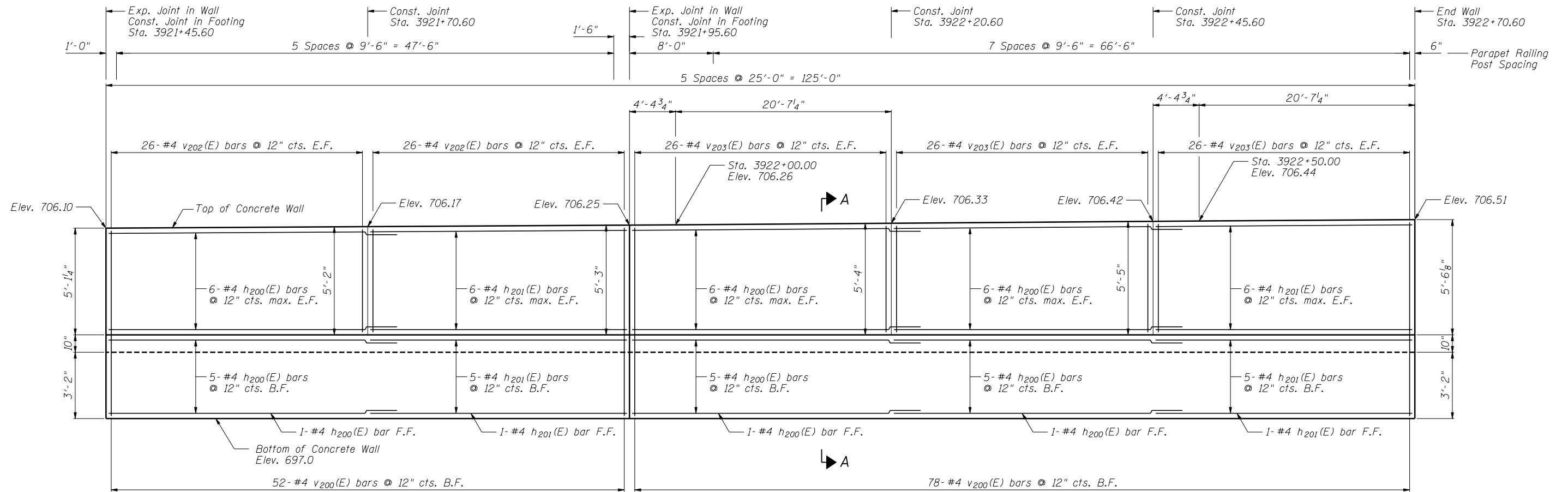
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WALL PLAN & ELEVATION 1
 STA. 3920 + 19.79 TO STA. 3922 + 70.60 SN 022-W044

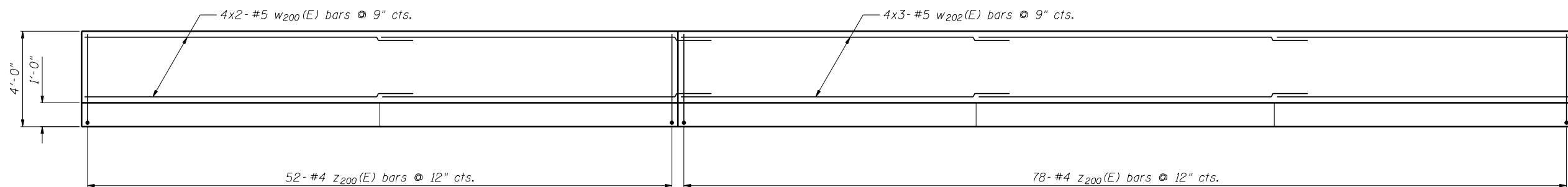
SHEET NO. SB-2 OF SB-7 SHEETS

F.A.P. RTE. 338	SECTION 2011-036-1	COUNTY DUPAGE	TOTAL SHEETS 234	SHEET NO. 44
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				

FILE NAME = ...60P42-W044-002-WallPlanElev.dgn



ELEVATION



PLAN

Notes:

Minimum lap for #4 bar is 2'-11", #5 bar is 3'-8".

Bars indicated thus: 4x3#5 etc. indicates 4 lines of bars with 3 lengths per line.

See Sheet SB-4 for Section A-A, Details and Bill of Material.

WALL PLAN AND ELEVATION 2
SN 022-W044



USER NAME = SAW	DESIGNED - LAS	REVISED -
CHECKED - DAZ	REVISIONS -	
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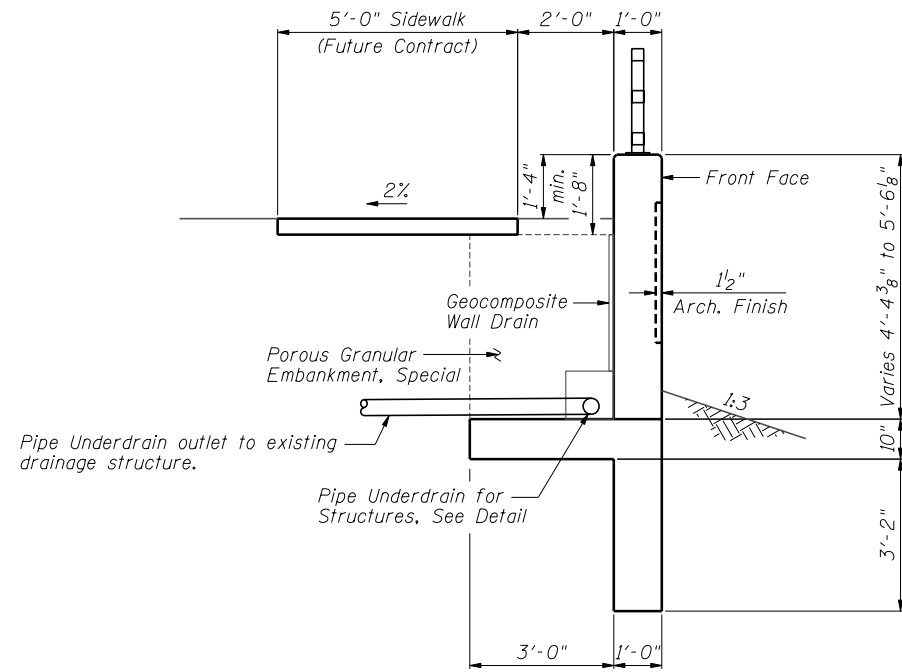
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL PLAN & ELEVATION 2
STA. 3920+19.79 TO STA. 3922+70.60 SN 022-W044

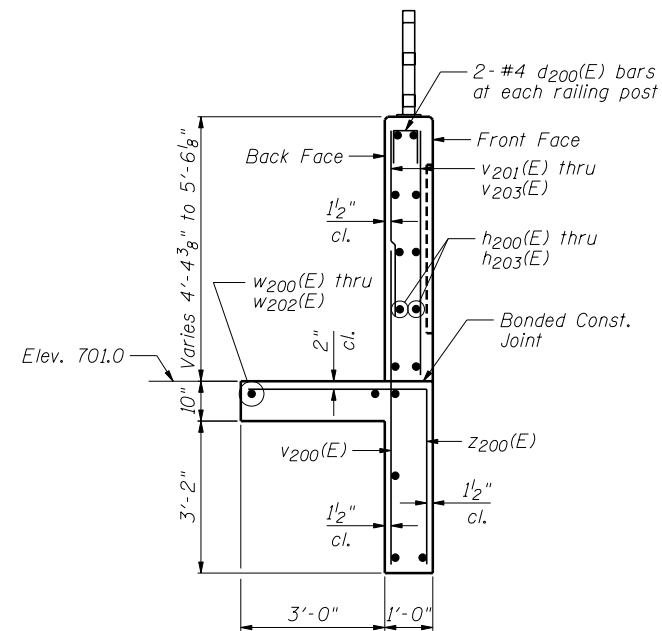
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT				

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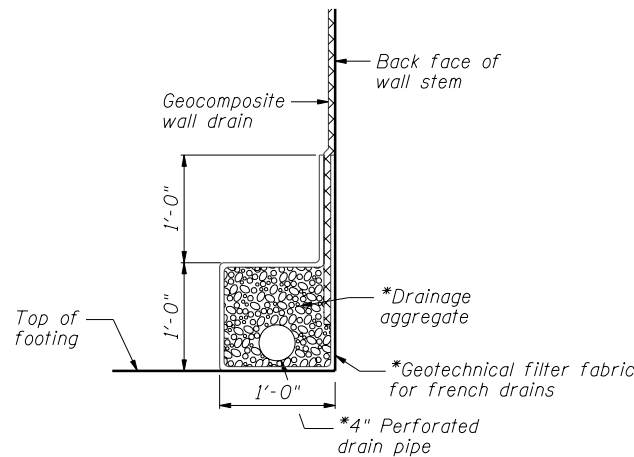


TYPICAL SECTION
Sta. 3920+19.79 to Sta. 3922+70.60



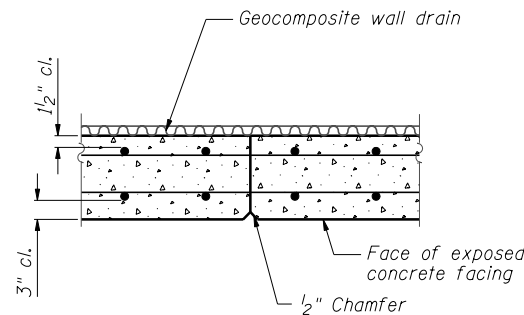
SECTION A-A
Maximum Soil Bearing Pressure = 1,890 psf

Bar	No.	Size	Length	Shape
d200(E)	56	#4	2'-1"	□
h200(E)	90	#4	27'-11"	—
h201(E)	54	#4	24'-8"	—
h202(E)	18	#4	26'-11"	—
h203(E)	18	#4	26'-8"	—
v200(E)	261	#4	7'-6"	—
v201(E)	156	#4	4'-5"	—
v202(E)	210	#4	4'-8"	—
v203(E)	156	#4	4'-11"	—
w200(E)	24	#5	28'-8"	—
w201(E)	4	#5	29'-6"	—
w202(E)	12	#5	27'-4"	—
z200(E)	261	#4	7'-4"	└
Item		Unit	Quantity	
Concrete Structures		Cu. Yd.	107.7	
Reinforcement Bars, Epoxy Coated		Pound	8,690	
Pipe Underdrains for Structures, 4"		Foot	278	
Geocomposite Wall Drain		Sq. Yd.	68	
Porous Granular Embankment, Special		Cu. Yd.	86	

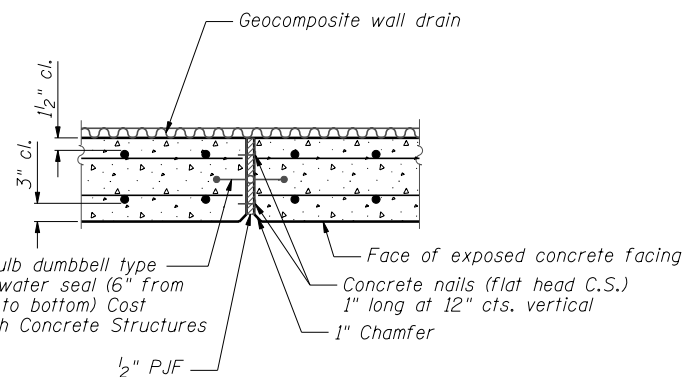


PIPE UNDERDRAIN DETAIL

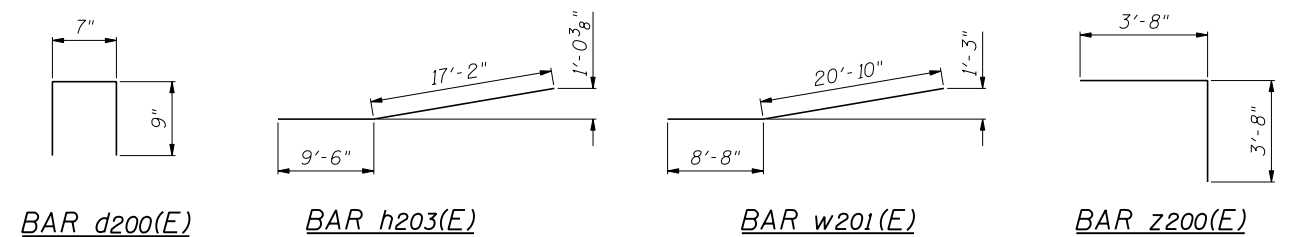
*Included in the cost of "Pipe Underdrains for Structures"



CONSTRUCTION JOINT DETAIL



EXPANSION JOINT DETAIL



WALL SECTION & DETAILS
SN 022-W044

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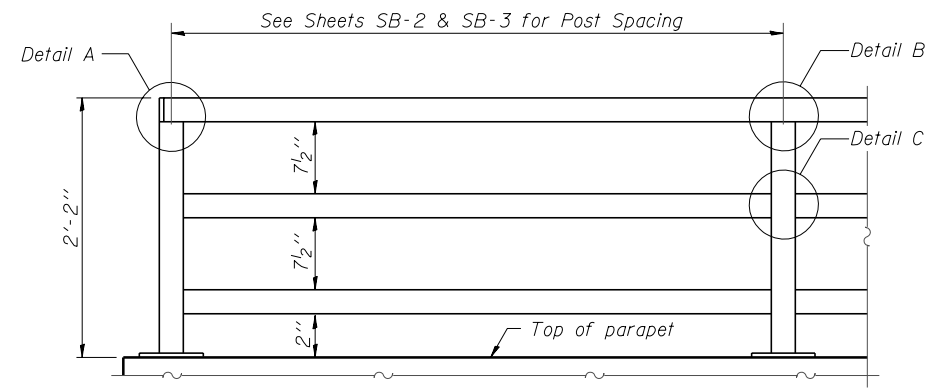
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

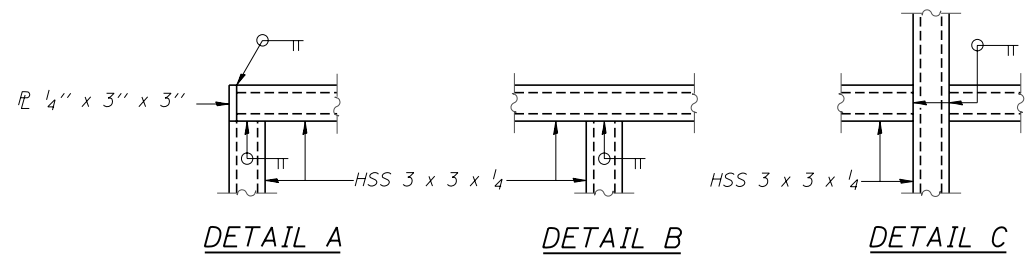
WALL SECTION & DETAILS
STA. 3920+19.79 TO STA. 3922+70.60 SN 022-W044

SHEET NO. SB-4 OF SB-7 SHEETS

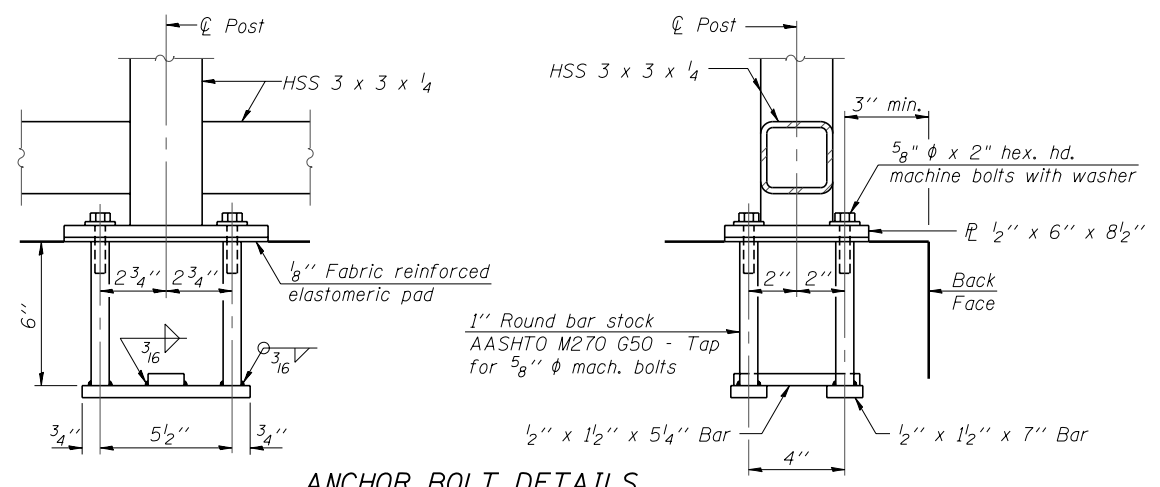
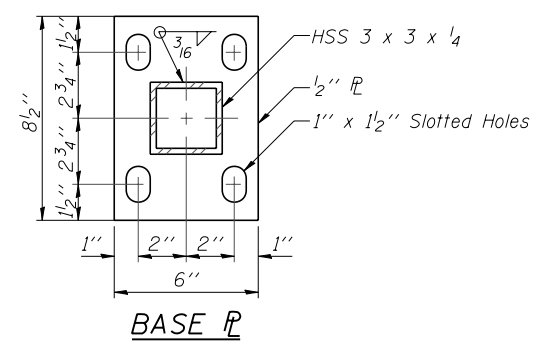
F.A.P. RTE. 338	SECTION 2011-036-1	COUNTY DUPAGE	TOTAL SHEETS 234	SHEET NO. 46
			CONTRACT NO. 60P42	
ILLINOIS FED. AID PROJECT				



**PARAPET RAILING
ELEVATION**
(Inside Face of Three Element Rail)

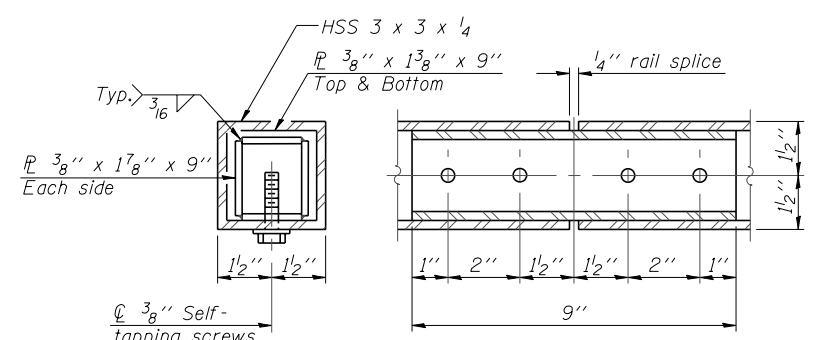


All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



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.



RAIL SPLICE

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing	Foot	251

**PARAPET RAILING
SN 022-W044**

FILE NAME = ...EGP42-W044-005-ParapetRailing.dgn



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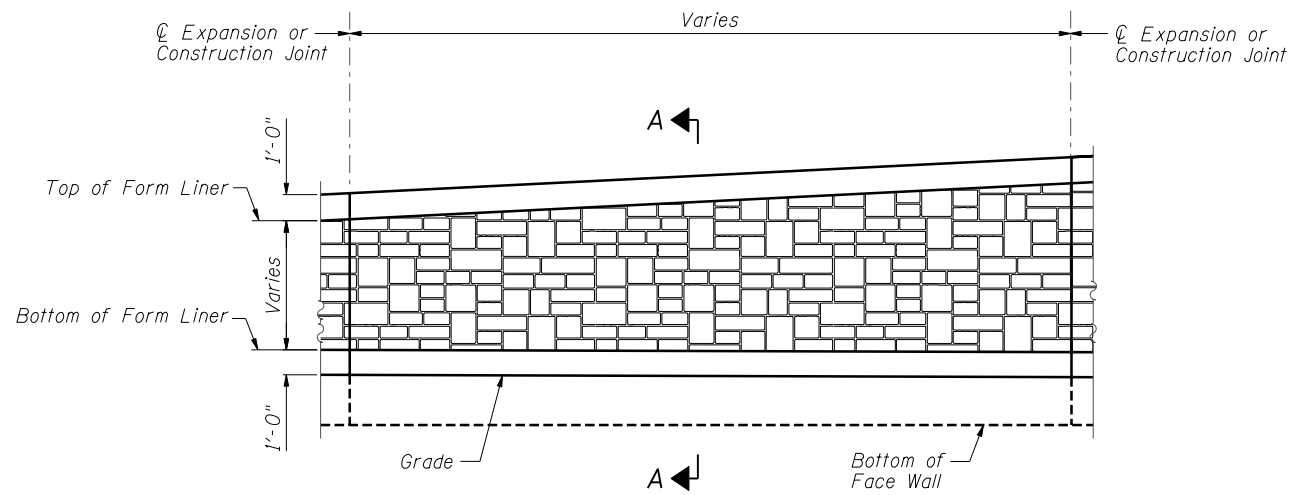
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PARAPET RAILING
STA. 3920 + 19.79 TO STA. 3922 + 70.60 SN 022-W044**

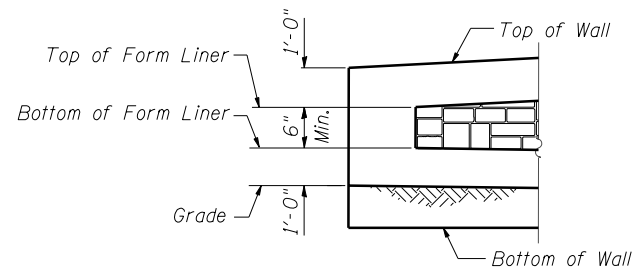
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CONTRACT NO. 60P42				

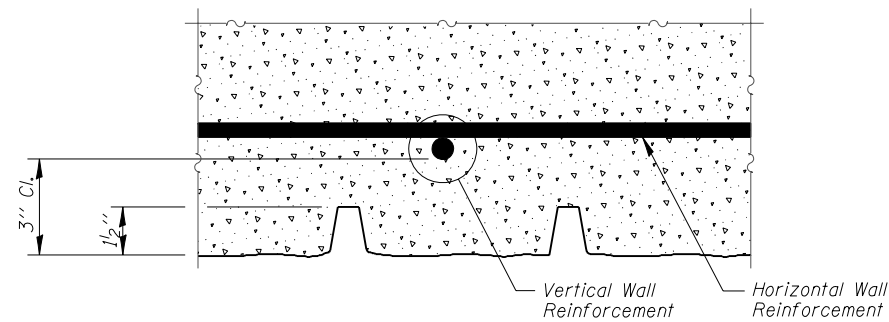
ILLINOIS FED. AID PROJECT



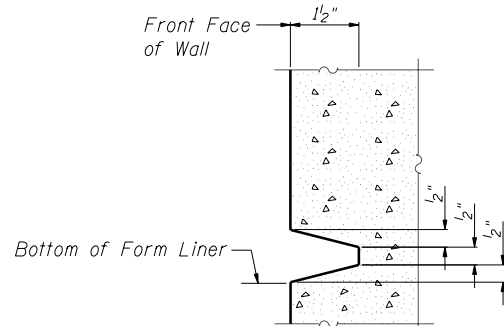
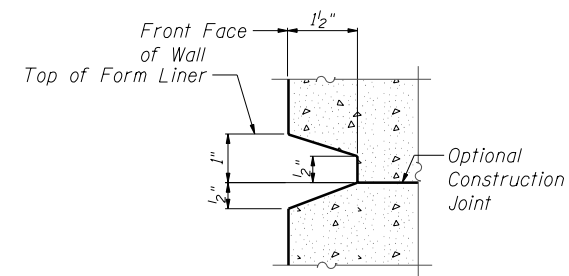
ELEVATION - FORM LINER



END FORM LINER FINISH



PLAN - FORM LINER



SECTION A-A

FORM LINER ELEVATION TABLE

Station	Form Liner Top Elevation	Form Liner Bottom Elevation
3920+19.79	None	None
3920+22.33	704.40	703.90
3920+25.30	704.45	702.59
3920+44.75	704.77	702.53
3920+50.00	704.86	702.53
3920+69.70	704.91	702.53
3920+94.66	704.97	702.55
3921+18.61	705.03	702.57
3921+28.26	705.05	702.57
3921+45.60	705.10	702.58
3921+70.60	705.17	702.67
3921+95.60	705.25	702.79
3922+00.00	705.26	702.82
3922+20.60	705.33	702.97
3922+45.60	705.42	703.09
3922+62.78	705.48	703.53
3922+67.12	705.50	705.00
3922+70.60	None	None

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Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARCHITECTURAL FINISH DETAILS
STA. 3920+19.79 TO STA. 3922+70.60 SN 022-W044**

SHEET NO. SB-6 OF SB-7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	48
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				

**ARCHITECTURAL FINISH DETAILS
SN 022-W044**

BORING LOG RW-04

BORING LOG RW-05

BORING LOG RW-06

Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amberst-Curtis, Suite 204 Naperville, Illinois 60565 (630) 355-3838		SOIL BORING LOG		PAGE 1 of 1	
ROUTE II, Route 59 (FAP 338)		DESCRIPTION Illinois Route 59-Aurora Avenue/New York Street To Ferry Road		DATE 2/28/2011	
SECTION (112 & 113) WRS-5		LOCATION SEC. 3, 9-10, 15-16, 21-22 TWP. 38N, RNG. 9E, Naperville Township		LOGGED BY RJ	
COUNTY DuPage		DRILLING METHOD Hollow Stem Auger		HAMMER TYPE CME Automatic	
STRUCT. NO. 022-W044		Surface Water Elev. n/a		D E P T H	
Station: 3920+20 to 3922+71		Stream Bed Elev. n/a		B L O W S	
BORING NO. RW-04		Groundwater Elevation:		U C S	
Station: 3920+65 IL RTE-59		First Encounter 696.5		M O I S T	
Offset: 62.0' Right		Upon Completion 689.5		Qu	
Ground Surface Elev. 703.5		After Hrs.		(ft) / (ft) (tsf) (%)	
12.0" TOPSOIL-black 702.5 AS - 26					
7 89					
8 2.25B 29					
9 2.25B 29					
SILTY CLAY-brown & gray- stiff to very stiff (A-6) Wet					
4					
5					
-5 6 1.5P 29					
697.5					
3					
4 0.25P 24					
6 0.25P 24					
695.5					
4 120					
7					
-10 8 2.5B 15					
CLAY LOAM-brown & gray- medium stiff to very stiff (A-6)					
4 117					
6 0.5B 16					
8 0.5B 16					
689.5					
3 110					
6 2.2B 17					
-15 10 2.2B 17					
CLAY-gray-very stiff (A-6)					
3 112					
5 2.2B 19					
7 2.2B 19					
685.5					
60					
22					
683.5 -20 17 2.0P 16					
-40					

Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amberst-Curtis, Suite 204 Naperville, Illinois 60565 (630) 355-3838		SOIL BORING LOG		PAGE 1 of 1	
ROUTE II, Route 59 (FAP 338)		DESCRIPTION Illinois Route 59-Aurora Avenue/New York Street To Ferry Road		DATE 3/14/2011	
SECTION (112 & 113) WRS-5		LOCATION SEC. 3, 9-10, 15-16, 21-22 TWP. 38N, RNG. 9E, Naperville Township		LOGGED BY RJ	
COUNTY DuPage		DRILLING METHOD Hollow Stem Auger		HAMMER TYPE CME Automatic	
STRUCT. NO. 022-W044		Surface Water Elev. n/a		D E P T H	
Station: 3920+20 to 3922+71		Stream Bed Elev. n/a		B L O W S	
BORING NO. RW-05		Groundwater Elevation:		U C S	
Station: 3921+65 IL RTE-59		First Encounter 696.4		M O I S T	
Offset: 75.5' Right		Upon Completion 693.4		Qu	
Ground Surface Elev. 702.4		After Hrs.		(ft) / (ft) (tsf) (%)	
TOPSOIL-dark brown to black 701.4 AS - 28					
7 90					
8 2.75B 28					
699.4					
2 107					
3 1.0B 15					
-5 3 1.0B 15					
696.4					
2					
1					
2 - 44					
693.4					
4 107					
8 4.0B 18					
-10 8 4.0B 18					
CLAY-brown & gray- very stiff to hard (A-6)					
4 109					
9 3.5B 17					
9 3.5B 17					
689.4					
4 107					
6 3.4B 18					
-15 9 3.4B 18					
CLAY-gray- stiff to very stiff (A-6)					
3 123					
4 2.6B 14					
6 2.6B 14					
118					
4 118					
8					
-20 10 2.25B 14					
-40					

Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amberst-Curtis, Suite 204 Naperville, Illinois 60565 (630) 355-3838		SOIL BORING LOG		PAGE 1 of 1	
ROUTE II, Route 59 (FAP 338)		DESCRIPTION Illinois Route 59-Aurora Avenue/New York Street To Ferry Road		DATE 3/14/2011	
SECTION (112 & 113) WRS-5		LOCATION SEC. 3, 9-10, 15-16, 21-22 TWP. 38N, RNG. 9E, Naperville Township		LOGGED BY RJ	
COUNTY DuPage		DRILLING METHOD Hollow Stem Auger		HAMMER TYPE CME Automatic	
STRUCT. NO. 022-W044		Surface Water Elev. n/a		D E P T H	
Station: 3920+20 to 3922+71		Stream Bed Elev. n/a		B L O W S	
BORING NO. RW-06		Groundwater Elevation:		U C S	
Station: 3922+67 IL RTE-59		First Encounter Dry		M O I S T	
Offset: 74.0' Right		Upon Completion Dry		Qu	
Ground Surface Elev. 705.4		After Hrs.		(ft) / (ft) (tsf) (%)	
TOPSOIL-dark brown to black 704.4 AS - 25					
3 89					
5					
2 2.25B 24					
SILTY CLAY-dark brown & gray- very stiff (A-6) Wet					
4 97					
5					
-5 7 2.9B 26					
699.4					
2 102					
3					
3 1.3B 23					
3 1.3B 23					
693.9					
5 114					
8 4.8B 16					
11 4.8B 16					
CLAY-brown & gray- stiff to hard (A-6)					
3 106					
5					
-10 7 4.1B 20					
-30					
CLAY to CLAY LOAM-gray- stiff to hard (A-6)					
3 115					
7					
-15 9 2.5B 15					
-35					
CLAY-gray- stiff to very stiff (A-6)					
3 112					
5 1.8B 14					
9 1.8B 14					
106					
4 106					
5					
685.4 -20 7 2.25B 13					
-40					

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

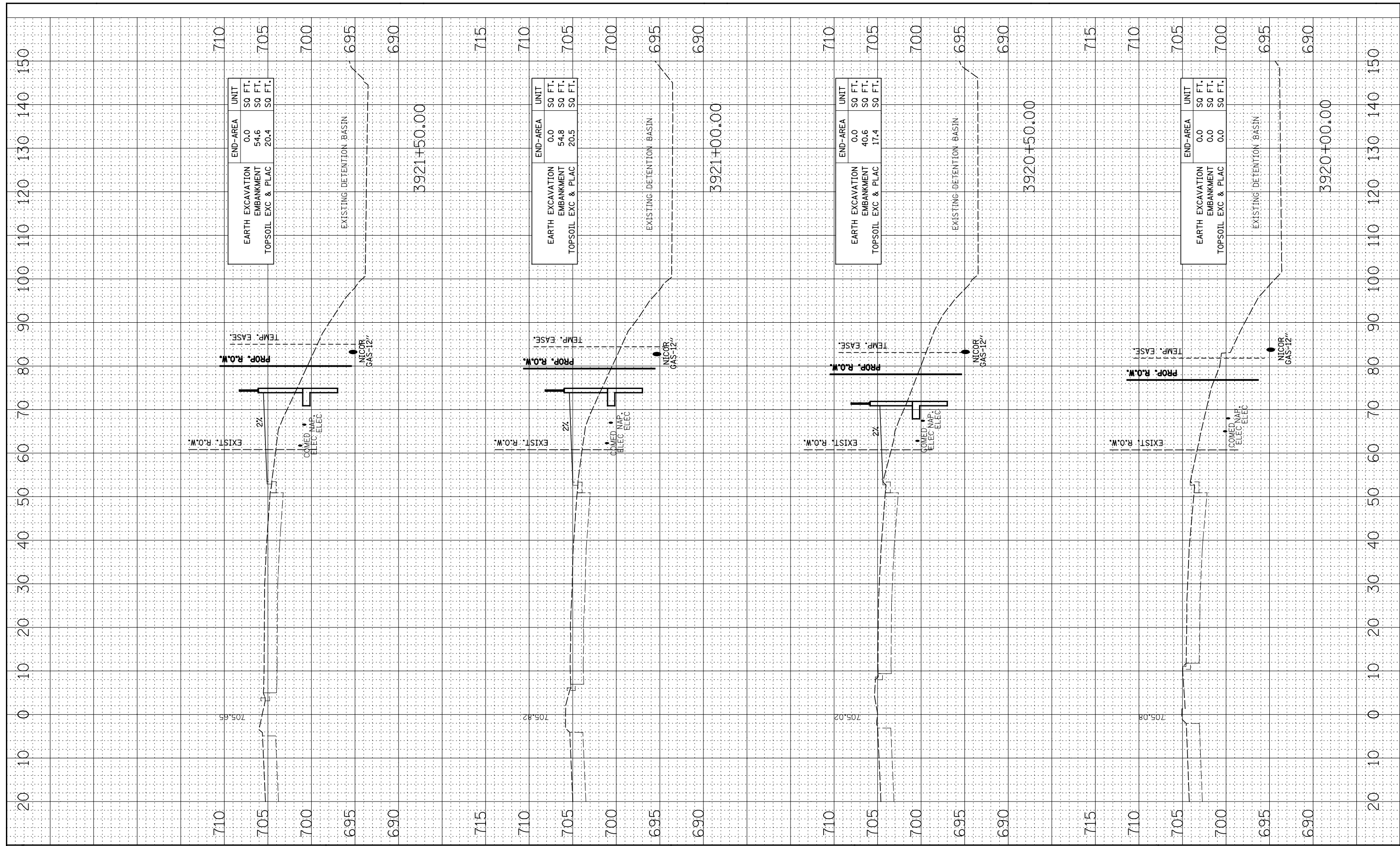
BORING LOGS
STA. 3920+19.79 TO STA. 3922+70.60 SN 022-W044

F.A.P. RTE. 338	SECTION 2011-036-1	COUNTY DUPAGE	TOTAL SHEETS 234	SHEET NO. 49
CONTRACT NO. 60P42				

BORING LOGS
SN 022-W044

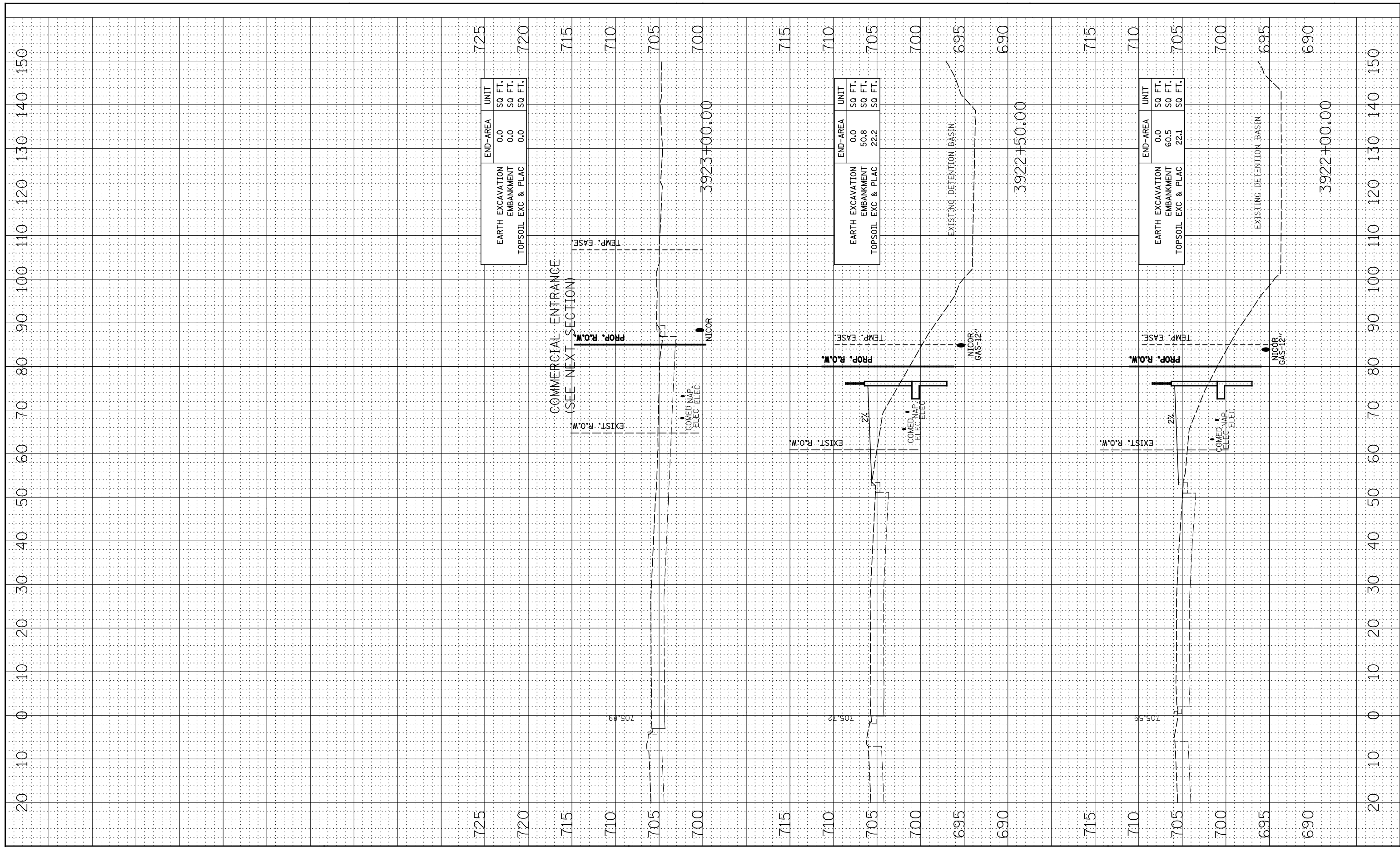
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BY	DATE
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NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SN 022-W044
CROSS-SECTIONS**

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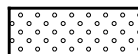
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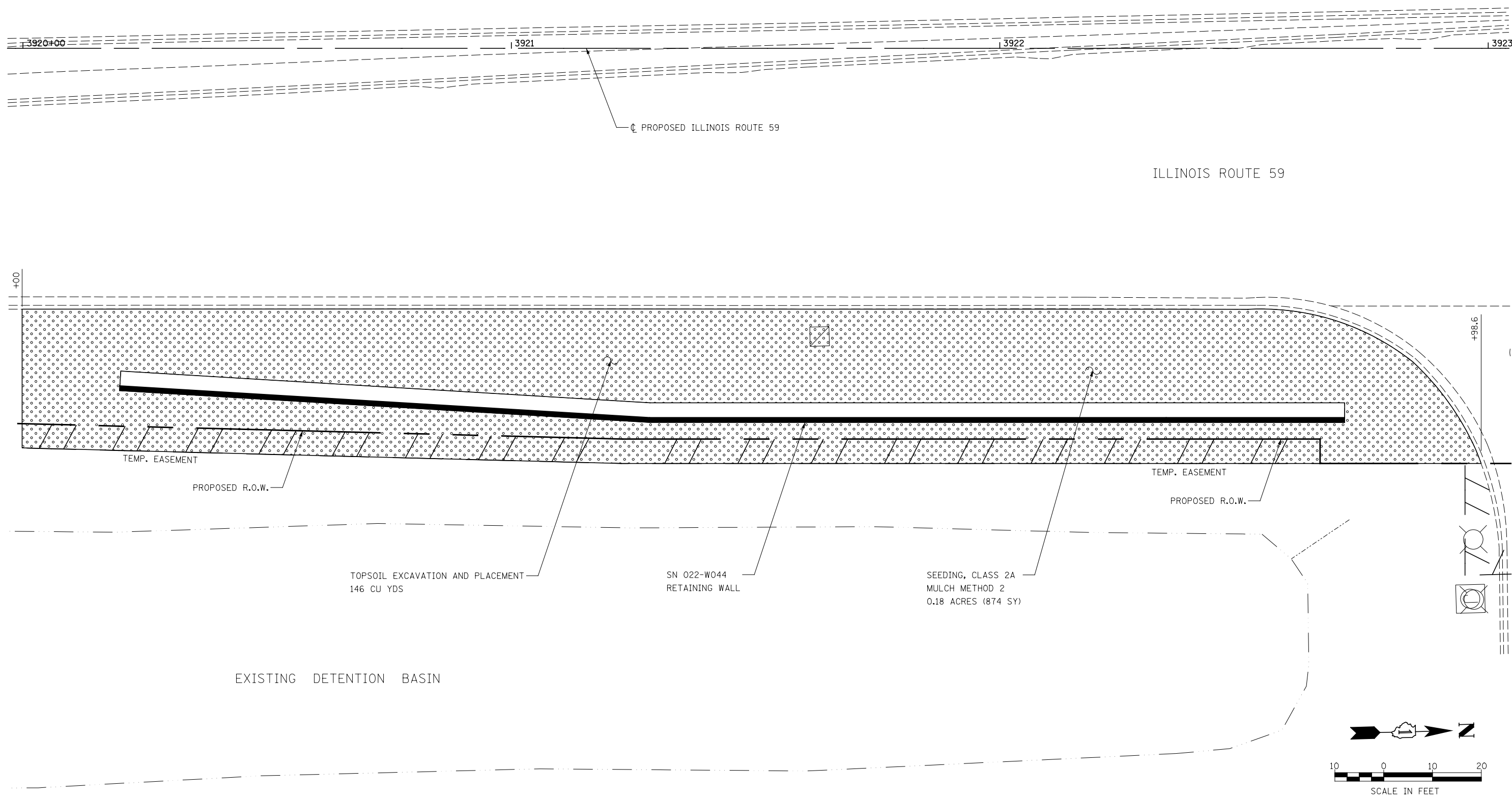
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338	2011-036-I	DUPAGE	234	51
CONTRACT NO. 60P42				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

LEGEND



TOPSOIL EXCAVATION AND PLACEMENT
SEEDING, CLASS 2A
MULCH METHOD 2



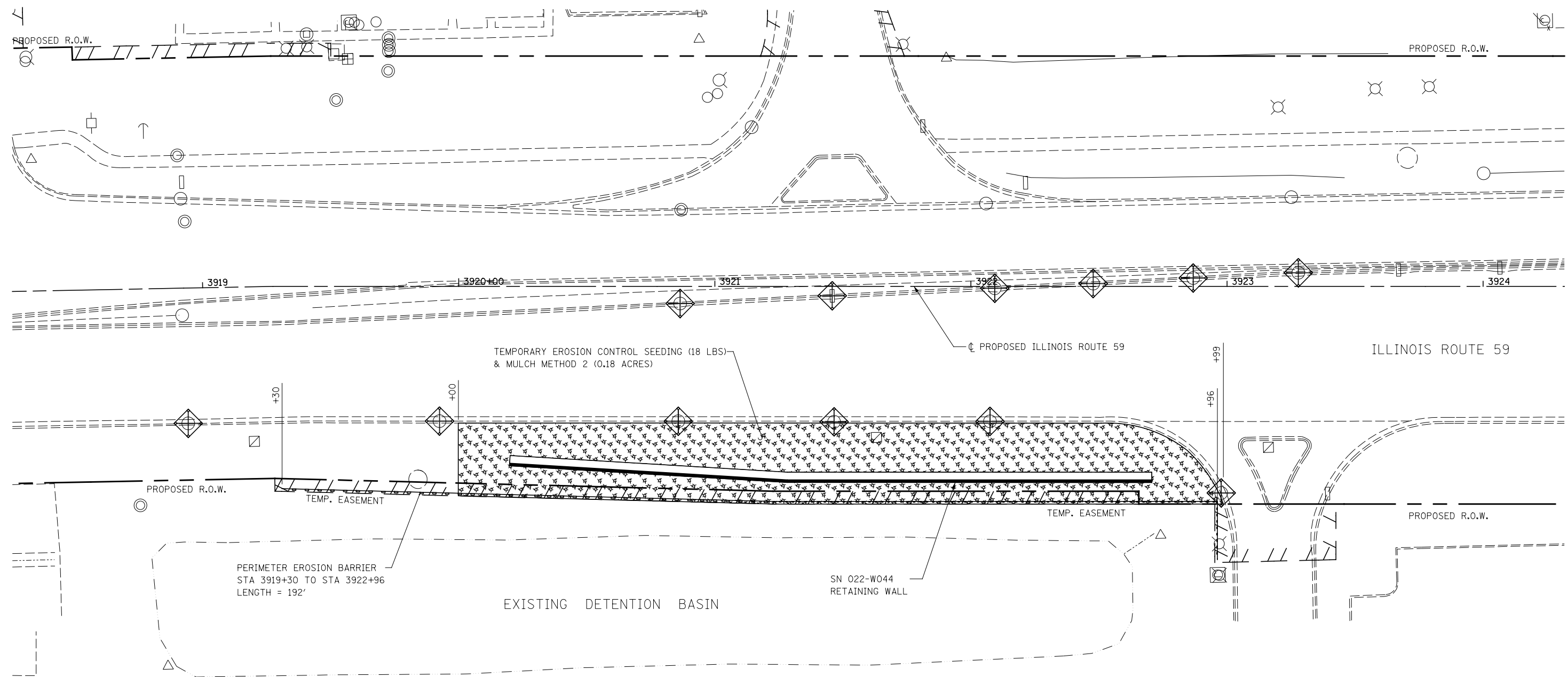
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**





SN 022-W044 - RESTORATION PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-I	DUPAGE	234	52
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				

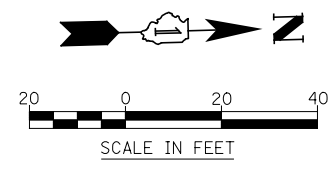


LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
MULCH METHOD 2
-  INLET FILTERS
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER

NOTES

1. SEE SUGGESTED CONSTRUCTION SEQUENCING SHEET FOR CONSTRUCTION ACTIVITY INFORMATION.



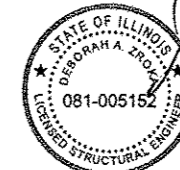
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		DRAWN <i>KES</i>	REVISED		SCALE: AS SHOWN	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	338	2011-036-I	DUPAGE	234	53
		CHECKED <i>PJO</i>	REVISED					CONTRACT NO. 60P42			ILLINOIS FED. AID PROJECT		
		DATE <i>05-11-12</i>	REVISED										

Bench Mark: Square "□" cut in base of southern most light pole in parking lot at #1778 IL Route 59, Sta. 3966+94, 155' Right, Elev. 701.63

Existing Structure: None

INDEX OF SHEETS

- SC-1. General Plan & Elevation
- SC-2. General Plan & Elevation 2
- SC-3. Soldier Pile Layout 1
- SC-4. Soldier Pile Layout 2
- SC-5. Typical Section
- SC-6. Section Near Railroad Bridge
- SC-7. Details
- SC-8. Concrete Facing 1
- SC-9. Concrete Facing 2
- SC-10. Concrete Facing 3
- SC-11. Concrete Facing & Details
- SC-12. Chain Link Fence
- SC-13. Architectural Finish Details
- SC-14. Pile Splice Details
- SC-15. Boring Logs 1
- SC-16. Boring Logs 2
- SC-17. Boring Logs 3

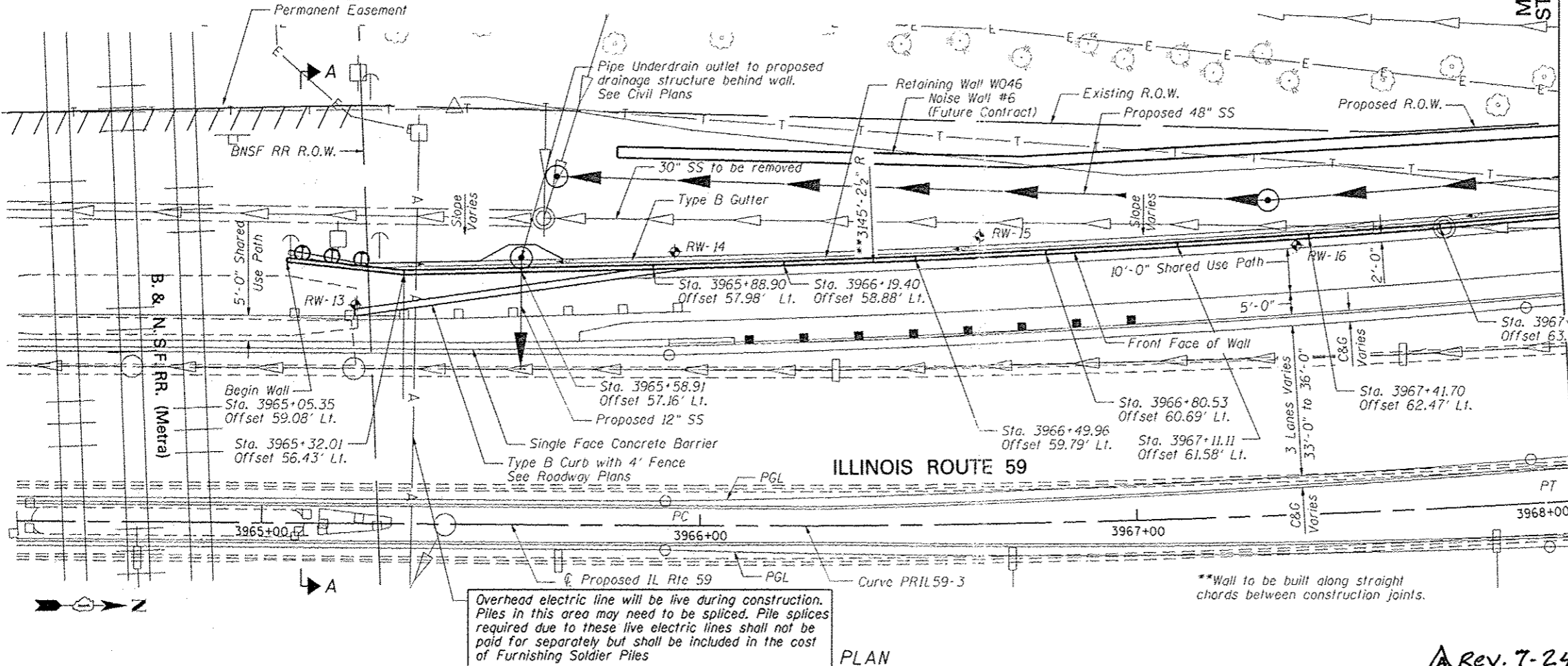
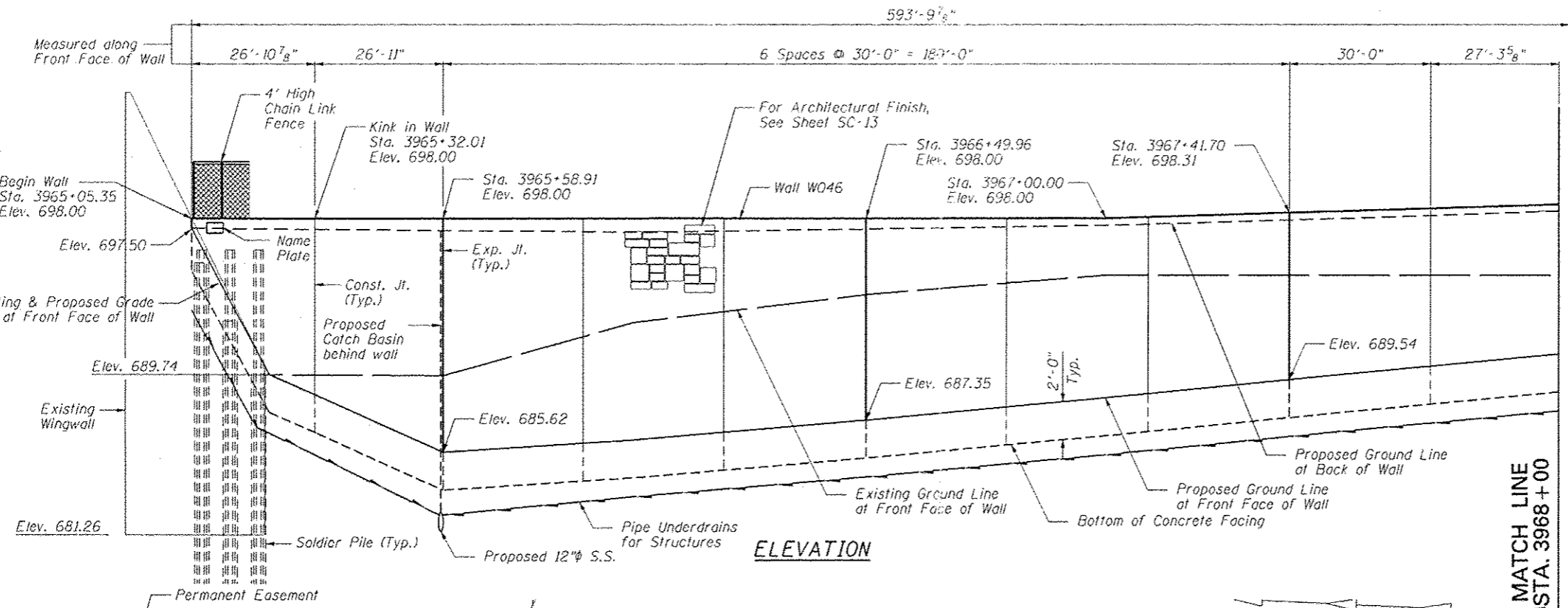
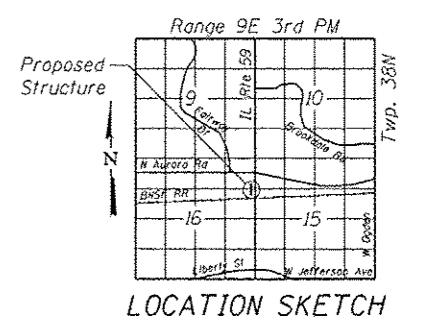


Deborah A. Brock
 Signature Date 7-11-12
 November 30, 2012
 Expires

APPROVED
 For Structural Adequacy Only

R. Carl Pungy, P.E.
 Engineer of Bridges & Structures

Notes:
 Offsets are measured from the ϕ Proposed IL Rte 59 to the front face of the wall. Front face of wall does not include architectural finish. See Detail on Sheets SC-5 & SC-6.
 For Section A-A, see Sheet SC-6 of SC-16.
 Soldier piles not shown for clarity.
 Roadway work will be in future Contract 60R30.
 Buried utilities that cross SN 022-W046 will be relocated by others, except that the buried electric line will be relocated in this contract.



Overhead electric line will be live during construction. Piles in this area may need to be spliced. Pile splices required due to these live electric lines shall not be paid for separately but shall be included in the cost of Furnishing Soldier Piles

**Wall to be built along straight chords between construction joints.

Rev. 7-24-12



USER NAME: SAW	DESIGNED: LAS	REVISIONS:
PLOT SCALE: 3/8" = 1'	CHECKED: DAZ	REVISIONS:
PLOT DATE: 7/10/2012	DRAWN: SAW	REVISIONS:
	CHECKED: LAS	REVISIONS:

DESIGNED: LAS	REVISIONS:
CHECKED: DAZ	REVISIONS:
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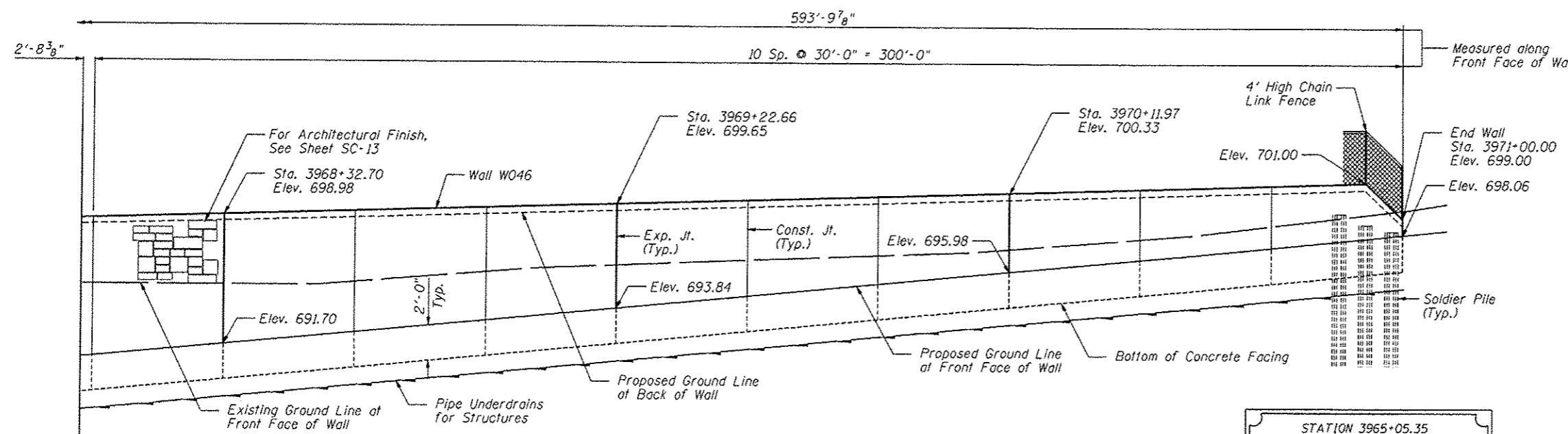
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
 STA. 3965 + 05.35 TO STA. 3971 + 00.00 SN 022-W046
 SHEET NO. SC-1 OF SC-17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	54
				CONTRACT NO. G0P42

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. The Contractor is responsible for the design and performance of the lagging using no less than 3" nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.
3. Protective coat shall be applied to exposed surfaces of the front face and top of wall.
4. Calculated length of Furnishing Soldier Piles (W Section) = 1248 Feet (W18x86) and 1152 Feet (W33x141)



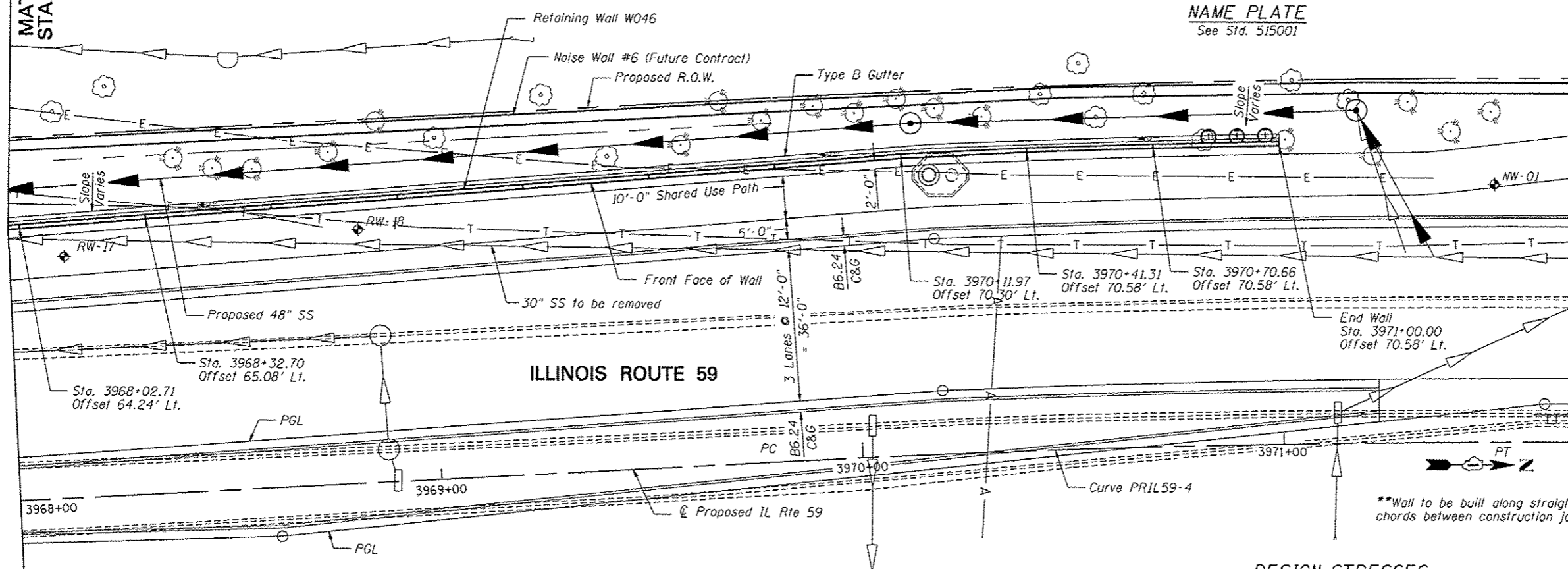
ELEVATION

STATION 3965+05.35
 BUILT 2011 BY
 STATE OF ILLINOIS
 F.A.P. RT. 338
 SEC. 2011-036-1
 STR. NO. 022-W046

NAME PLATE
 See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	897
Concrete Structures	Cu. Yd.	234.9
Protective Coat	Sq. Yd.	593
Stud Shear Connectors	Each	707
Reinforcement Bars, Epoxy Coated	Pound	29,710
Name Plates	Each	1
Geocomposite Wall Drain	Sq. Yd.	368
Untreated Timber Lagging	Sq. Ft.	4,368
Furnishing Soldier Piles (W Section)	Foot	2,400
Pipe Underdrains for Structures, 4"	Foot	594
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	14,953
Drilling and Setting Soldier Piles (In Rock)	Cu. Ft.	1,618
Form Liner Textured Surface	Sq. Ft.	3,264
Chain Link Fence 4', Attached to Structure	Foot	594

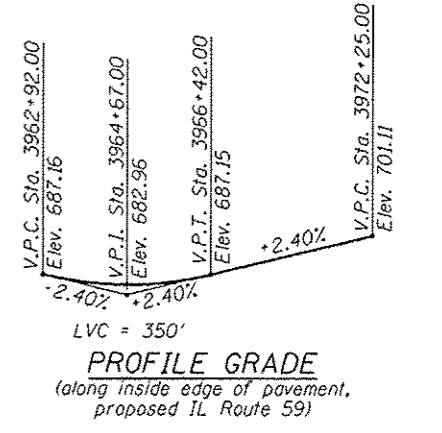


PLAN

DESIGN SPECIFICATIONS
 2002 AASHTO Standard Specifications
 for Highway Bridges, 17th Edition

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 36,000$ psi (M270 Grade 36)



HORIZONTAL CURVE DATA

Proposed Curve PRIL59-3
 PI Sta. = 3966+92.83
 $\Delta = 3^\circ 39' 58''$ (LT)
 $D = 1^\circ 49' 07''$
 $R = 3,150.48'$
 $T = 100.83'$
 $L = 201.59'$
 $E = 1.61'$
 P.C. Sta. = 3965+92.00
 P.T. Sta. = 3967+93.59

Proposed Curve PRIL59-4
 PI Sta. = 3970+83.74
 $\Delta = 3^\circ 39' 58''$ (RT)
 $D = 1^\circ 48' 43''$
 $R = 3,162.19'$
 $T = 101.20'$
 $L = 202.33'$
 $E = 1.62'$
 P.C. Sta. = 3969+82.54
 P.T. Sta. = 3971+84.87

GENERAL PLAN & ELEVATION 2
SN 022-W046

Notes:
 Offsets are measured from the \hat{C} Proposed IL Rte 59 to the front face of the wall.
 Soldier piles not shown for clarity.

Roadway work will be in future Contract 60R30.
 Buried utilities that cross SN 022-W046 will be relocated by others, except that the buried electric line will be relocated in this contract.



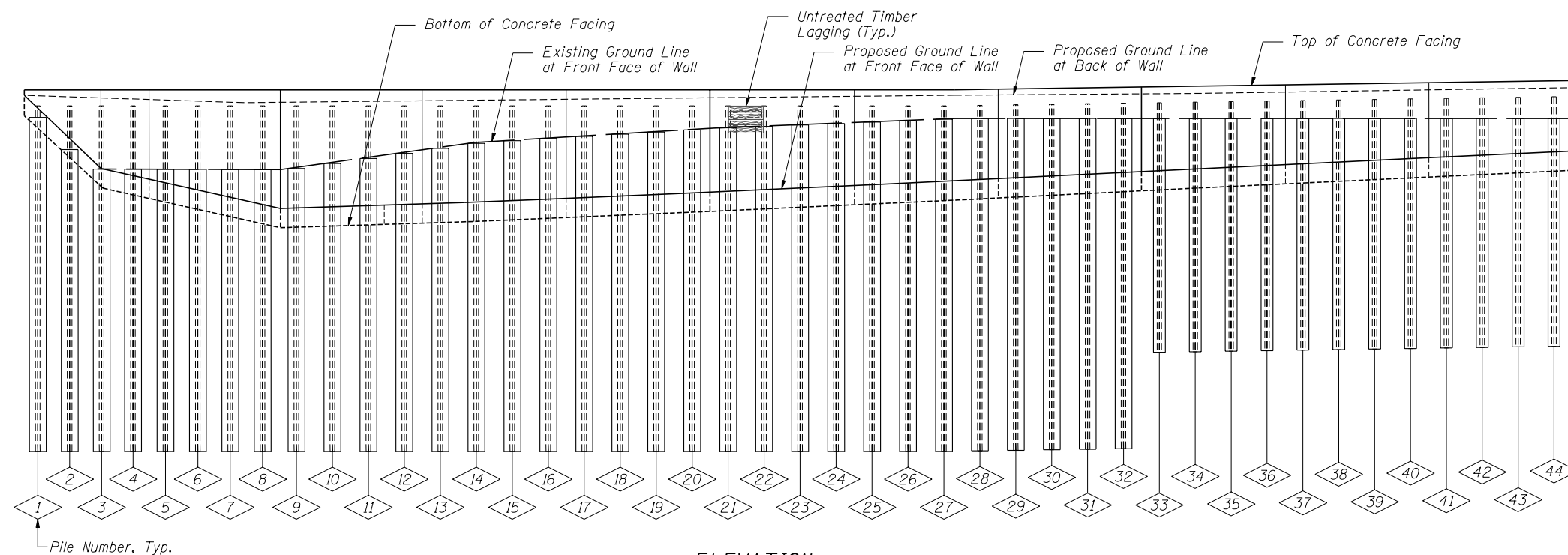
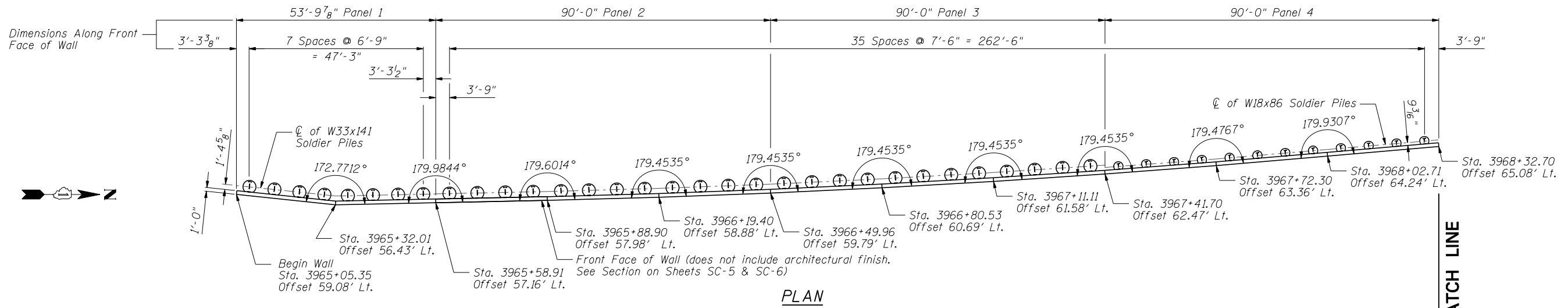
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PLOT SCALE : 3/8" = 1' / IN.	CHECKED - DAZ	REVISED -
PLOT DATE : 7/8/2012	DRAWN - SAW	REVISED -
	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION 2
STA. 3965+05.35 TO STA. 3971+00.00 SN 022-W046

F.A.P. RTE. 338	SECTION 2011-036-1	COUNTY DUPAGE	TOTAL SHEETS 234	SHEET NO. 55
CONTRACT NO. 60P42				ILLINOIS FED. AID PROJECT

SHEET NO. SC-2 OF SC-17 SHEETS



PILE SUMMARY

Pile No.	Station	Offset to ϕ Pile	Pile Designation	Length	Bottom Elevation	Top Elevation	Pile No.	Station	Offset to ϕ Pile	Pile Designation	Length	Bottom Elevation	Top Elevation	Pile No.	Station	Offset to ϕ Pile	Pile Designation	Length	Bottom Elevation	Top Elevation	
1	3965+08.85	61.13	W33x141	36'-0"	660.33	696.33	16	3966+15.51	61.17	W33x141	36'-0"	660.33	696.33	31	3967+30.15	64.56	W33x141	36'-0"	660.56	696.56	
2	3965+15.57	60.46	W33x141	36'-0"	660.33	696.33	17	3966+23.13	61.40	W33x141	36'-0"	660.33	696.33	32	3967+37.81	64.76	W33x141	36'-0"	660.61	696.61	
3	3965+22.29	59.80	W33x141	36'-0"	660.33	696.33	18	3966+30.78	61.64	W33x141	36'-0"	660.33	696.33	33	3967+45.46	64.37	W18x86	26'-0"	670.67	696.67	
4	3965+29.01	59.13	W33x141	36'-0"	660.33	696.33	19	3966+38.42	61.87	W33x141	36'-0"	660.33	696.33	34	3967+53.11	64.61	W18x86	26'-0"	670.72	696.72	
5	3965+35.31	58.91	W33x141	36'-0"	660.33	696.33	20	3966+46.07	62.08	W33x141	36'-0"	660.33	696.33	35	3967+60.77	64.83	W18x86	26'-0"	670.78	696.78	
6	3965+42.06	59.09	W33x141	36'-0"	660.33	696.33	21	3966+53.69	62.30	W33x141	36'-0"	660.33	696.33	36	3967+68.42	65.04	W18x86	26'-0"	670.84	696.84	
7	3965+48.81	59.27	W33x141	36'-0"	660.33	696.33	22	3966+61.34	62.54	W33x141	36'-0"	660.33	696.33	37	3967+76.06	65.24	W18x86	26'-0"	670.89	696.89	
8	3965+55.55	59.45	W33x141	36'-0"	660.33	696.33	23	3966+68.99	62.77	W33x141	36'-0"	660.33	696.33	38	3967+83.72	65.48	W18x86	26'-0"	670.95	696.95	
9	3965+62.59	59.65	W33x141	36'-0"	660.33	696.33	24	3966+76.64	62.98	W33x141	36'-0"	660.33	696.33	39	3967+91.37	65.70	W18x86	26'-0"	671.00	697.00	
10	3965+70.09	59.85	W33x141	36'-0"	660.33	696.33	25	3966+84.27	63.20	W33x141	36'-0"	660.33	696.33	40	3967+98.91	65.90	W18x86	26'-0"	671.06	697.06	
11	3965+77.59	60.05	W33x141	36'-0"	660.33	696.33	26	3966+91.92	63.44	W33x141	36'-0"	660.33	696.33	41	3968+06.41	66.11	W18x86	26'-0"	671.12	697.12	
12	3965+85.09	60.26	W33x141	36'-0"	660.33	696.33	27	3966+99.57	63.67	W33x141	36'-0"	660.33	696.33	42	3968+13.91	66.32	W18x86	26'-0"	671.17	697.17	
13	3965+92.58	60.49	W33x141	36'-0"	660.33	696.33	28	3967+07.22	63.87	W33x141	36'-0"	660.39	696.39	43	3968+21.40	66.53	W18x86	26'-0"	671.23	697.23	
14	3966+00.22	60.73	W33x141	36'-0"	660.33	696.33	29	3967+14.85	64.09	W33x141	36'-0"	660.44	696.44	44	3968+28.90	66.74	W18x86	26'-0"	671.28	697.28	
15	3966+07.86	60.96	W33x141	36'-0"	660.33	696.33	30	3967+22.50	64.33	W33x141	36'-0"	660.50	696.50								

Notes:
All offsets are to the left of centerline of IL Rte 59
See Sheet SC-4 for Bill of Material

SOLDIER PILE LAYOUT 1
SN 022-W046

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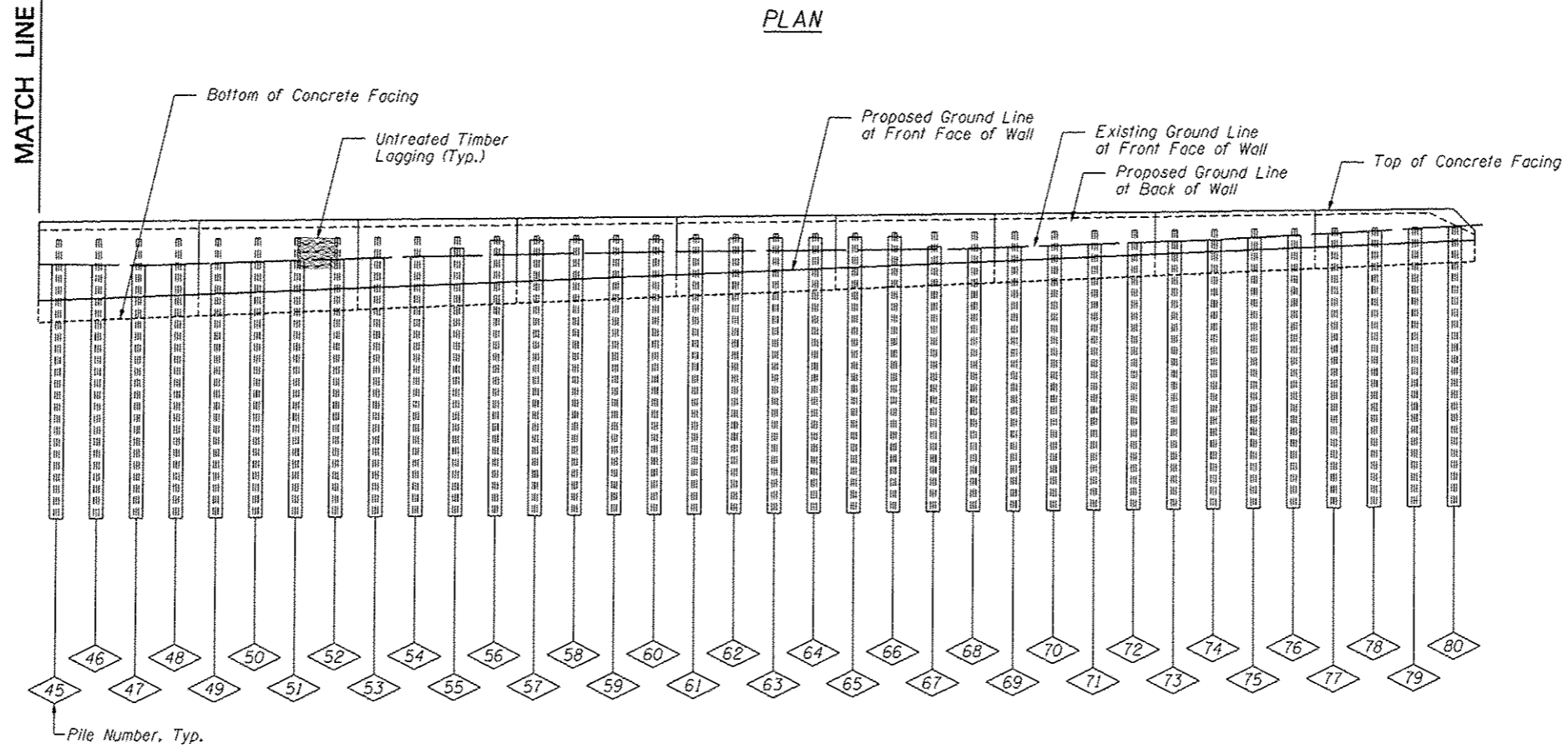
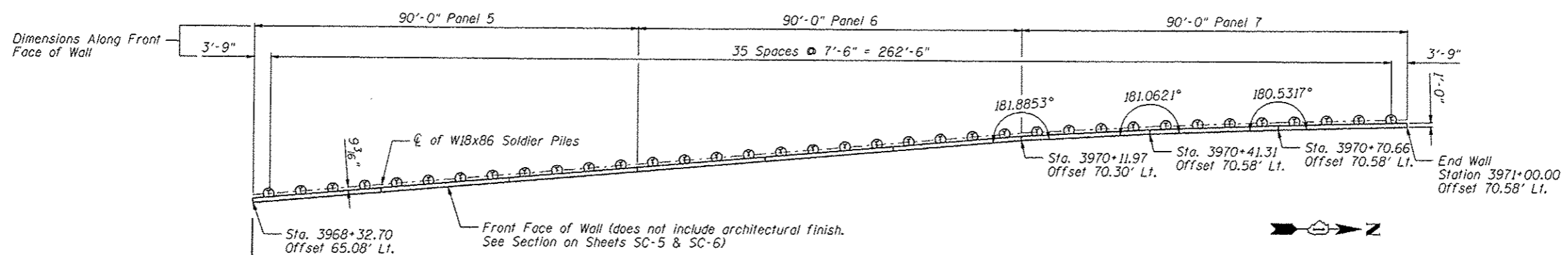
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PLOT DATE = 5/4/2012	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOLDIER PILE LAYOUT 1
STA. 3965+05.35 TO STA. 3971+00.00 SN 022-W046

SHEET NO. SC-3 OF SC-17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	56
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				



PILE SUMMARY

Pile No.	Station	Offset to C/Pile	Pile Designation	Length	Bottom Elevation	Top Elevation	Pile No.	Station	Offset to C/Pile	Pile Designation	Length	Bottom Elevation	Top Elevation	Pile No.	Station	Offset to C/Pile	Pile Designation	Length	Bottom Elevation	Top Elevation
45	3968+36.40	66.95	W18x86	26'-0"	671.34	697.34	57	3969+26.36	69.49	W18x86	26'-0"	672.01	698.01	69	3970+15.61	72.09	W18x86	26'-0"	672.69	698.69
46	3968+43.89	67.17	W18x86	26'-0"	671.40	697.40	58	3969+33.86	69.70	W18x86	26'-0"	672.07	698.07	70	3970+22.94	72.14	W18x86	26'-0"	672.74	698.74
47	3968+51.39	67.38	W18x86	26'-0"	671.45	697.45	59	3969+41.36	69.92	W18x86	26'-0"	672.13	698.13	71	3970+30.27	72.21	W18x86	26'-0"	672.80	698.80
48	3968+58.89	67.59	W18x86	26'-0"	671.51	697.51	60	3969+48.85	70.13	W18x86	26'-0"	672.18	698.18	72	3970+37.60	72.30	W18x86	26'-0"	672.86	698.86
49	3968+66.39	67.80	W18x86	26'-0"	671.57	697.57	61	3969+56.35	70.34	W18x86	26'-0"	672.24	698.24	73	3970+44.99	72.33	W18x86	26'-0"	672.91	698.91
50	3968+73.88	68.01	W18x86	26'-0"	671.62	697.62	62	3969+63.85	70.55	W18x86	26'-0"	672.30	698.30	74	3970+52.33	72.31	W18x86	26'-0"	672.97	698.97
51	3968+81.38	68.22	W18x86	26'-0"	671.68	697.68	63	3969+71.34	70.76	W18x86	26'-0"	672.35	698.35	75	3970+59.66	72.31	W18x86	26'-0"	673.02	699.02
52	3968+88.88	68.43	W18x86	26'-0"	671.73	697.73	64	3969+78.84	70.97	W18x86	26'-0"	672.41	698.41	76	3970+66.99	72.33	W18x86	26'-0"	673.08	699.08
53	3968+96.37	68.65	W18x86	26'-0"	671.79	697.79	65	3969+86.25	71.19	W18x86	26'-0"	672.46	698.46	77	3970+74.34	72.33	W18x86	26'-0"	673.14	699.14
54	3969+03.87	68.86	W18x86	26'-0"	671.85	697.85	66	3969+93.59	71.42	W18x86	26'-0"	672.52	698.52	78	3970+81.67	72.31	W18x86	26'-0"	673.19	699.19
55	3969+11.37	69.07	W18x86	26'-0"	671.90	697.90	67	3970+00.92	71.66	W18x86	26'-0"	672.58	698.58	79	3970+89.00	72.31	W18x86	26'-0"	673.25	699.25
56	3969+18.87	69.28	W18x86	26'-0"	671.96	697.96	68	3970+08.24	71.93	W18x86	26'-0"	672.63	698.63	80	3970+96.33	72.33	W18x86	26'-0"	673.31	699.31

BILL OF MATERIAL

Item	Unit	Quantity
Furnishing Soldier Piles (W Section)	Foot	2,400
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	14,953
Drilling and Setting Soldier Piles (In Rock)	Cu. Ft.	1,618
Untreated Timber Lagging	Sq Ft	4,368
Stud Shear Connectors	Each	707

Note: All offsets are to the left of centerline of IL Rte 59

**SOLDIER PILE LAYOUT 2
SN 022-W046**

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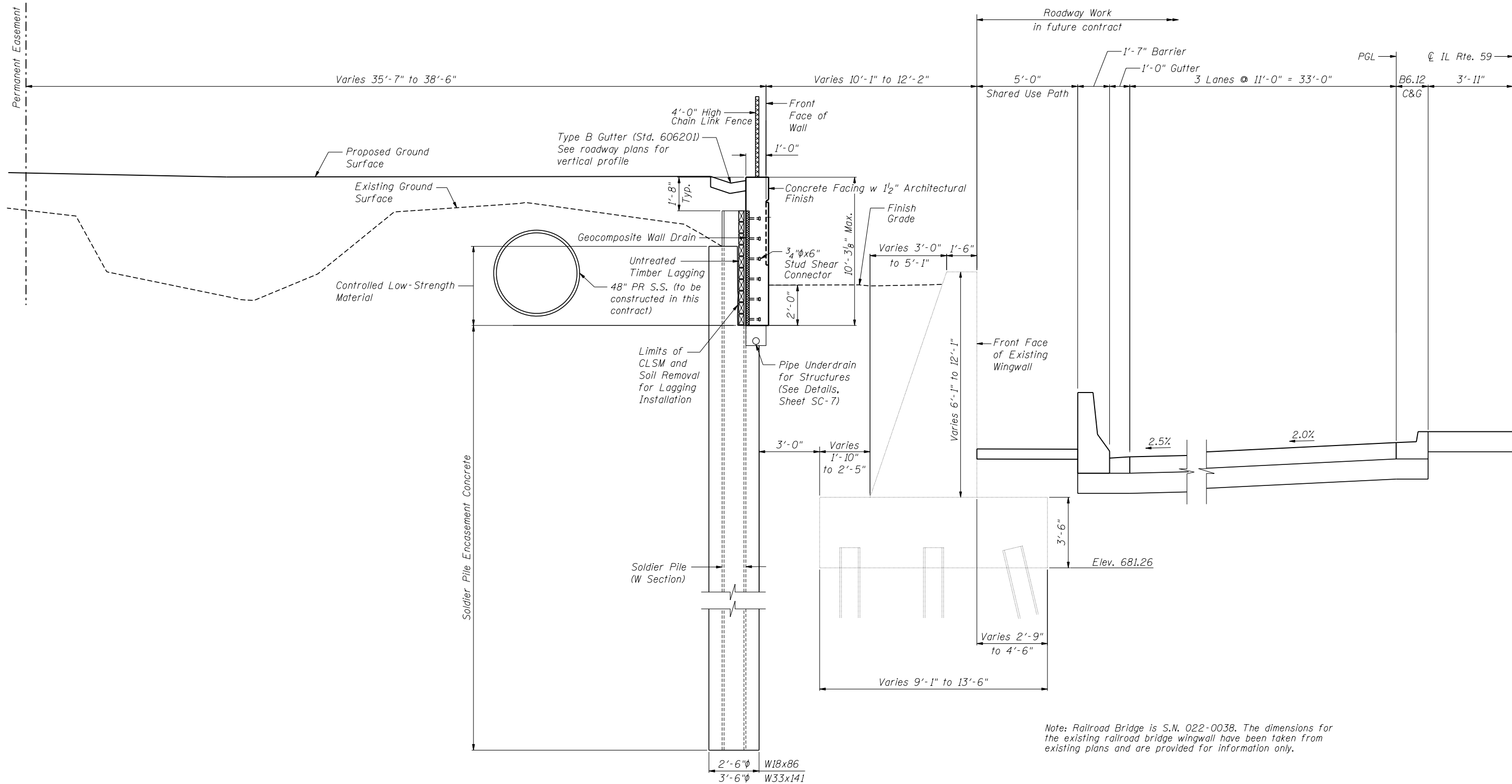
ZROKA engineering
Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

USER NAME - SAW	DESIGNED - LAS	REVISED ADDENDUM A 7/16/12
PLOT SCALE - 3/8"=1'-0"	CHECKED - DAZ	REVISED -
PLOT DATE - 7/8/2012	DRAWN - SAW	REVISED -
	CHECKED - LAS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOLDIER PILE LAYOUT 2
STA. 3965+05.35 TO STA. 3971+00.00 SN 022-W046**
SHEET NO. SC-4 OF SC-17 SHEETS

F.A.P. RTE. 338	SECTION 2011-036-1	COUNTY DUPAGE	TOTAL SHEETS 234	SHEET NO. 57
CONTRACT NO. 60P42				ILLINOIS FED. AID PROJECT



Note: Railroad Bridge is S.N. 022-0038. The dimensions for the existing railroad bridge wingwall have been taken from existing plans and are provided for information only.

SECTION A-A
Sta. 3965+05.35 to Sta. 3965+22.00
(Looking North)

SECTION NEAR RAILROAD BRIDGE
SN 022-W046

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CHECKED - DAZ	REVISIONS -	
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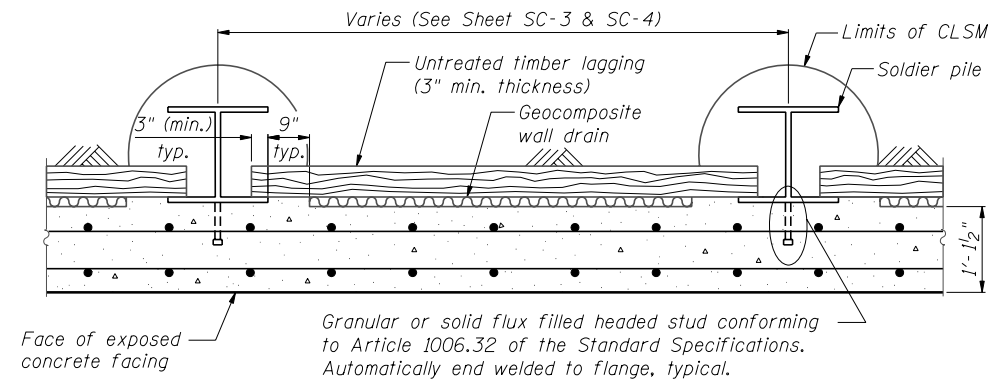
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SECTION NEAR RAILROAD BRIDGE
STA. 3965+05.35 TO STA. 3971+00.00 SN 022-W046

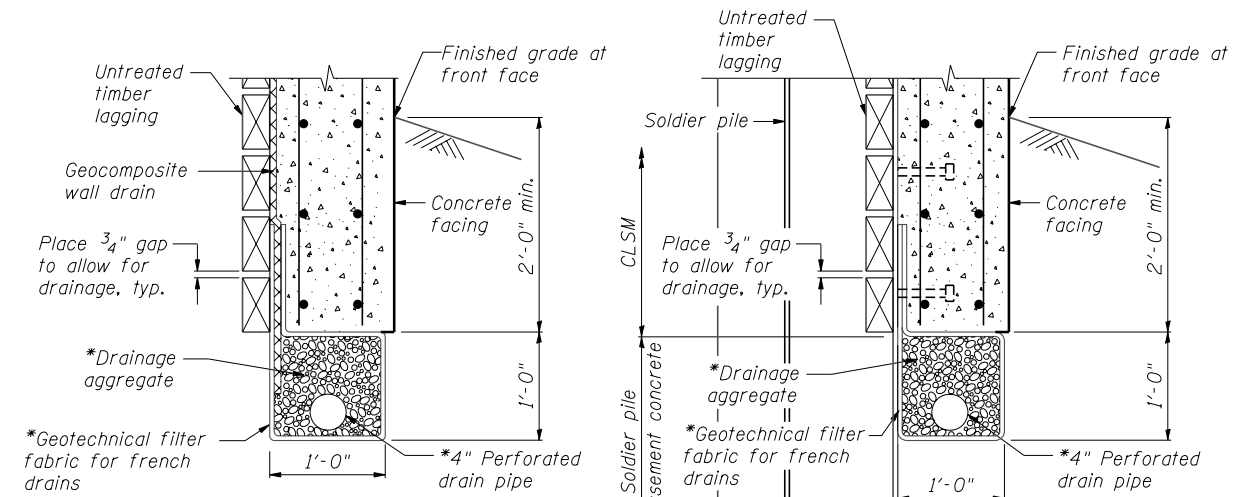
SHEET NO. SC-6 OF SC-17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	59
CONTRACT NO. 60P42				

ILLINOIS FED. AID PROJECT



SECTION THRU DRILLED SOLDIER PILE WALL



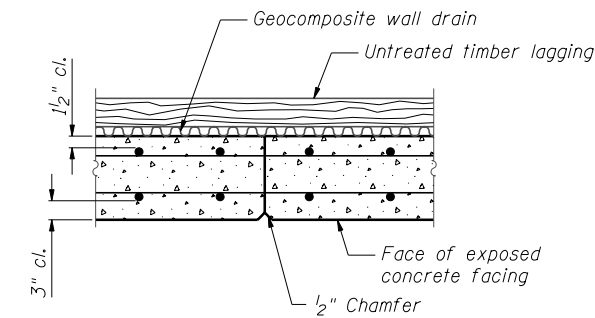
BETWEEN SOLDIER PILES

AT SOLDIER PILES

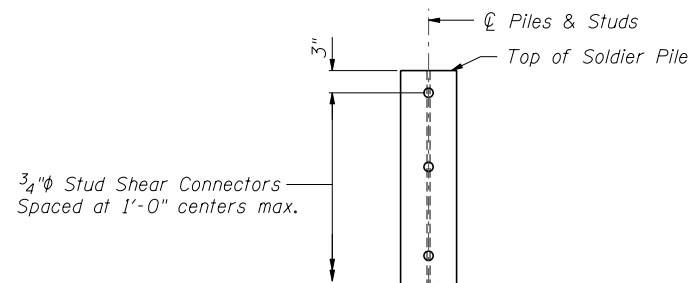
PIPE UNDERDRAIN DETAIL

*Included in the cost of "Pipe Underdrains for Structures, 4"

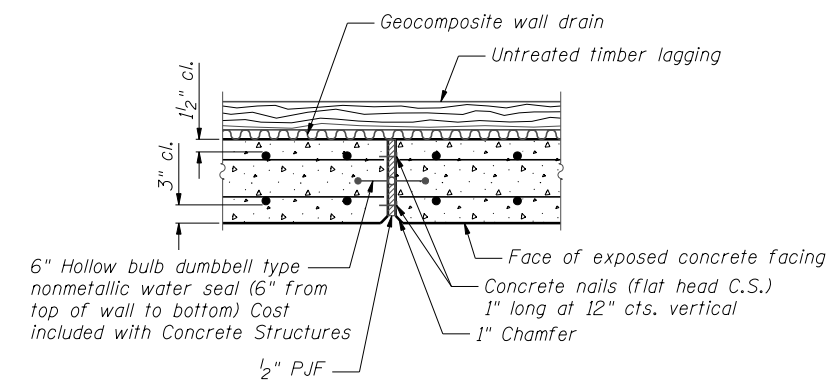
For pipe underdrain outlets, see Civil Plans.



CONSTRUCTION JOINT DETAIL



DETAIL OF SHEAR STUD PLACEMENT



EXPANSION JOINT DETAIL

**DETAILS
SN 022-W046**



Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

USER NAME = SAW	DESIGNED - LAS	REVISED -
PLOT SCALE = 5.00' / IN.	CHECKED - DAZ	REVISED -
PLOT DATE = 5/4/2012	DRAWN - SAW	REVISED -
	CHECKED - LAS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

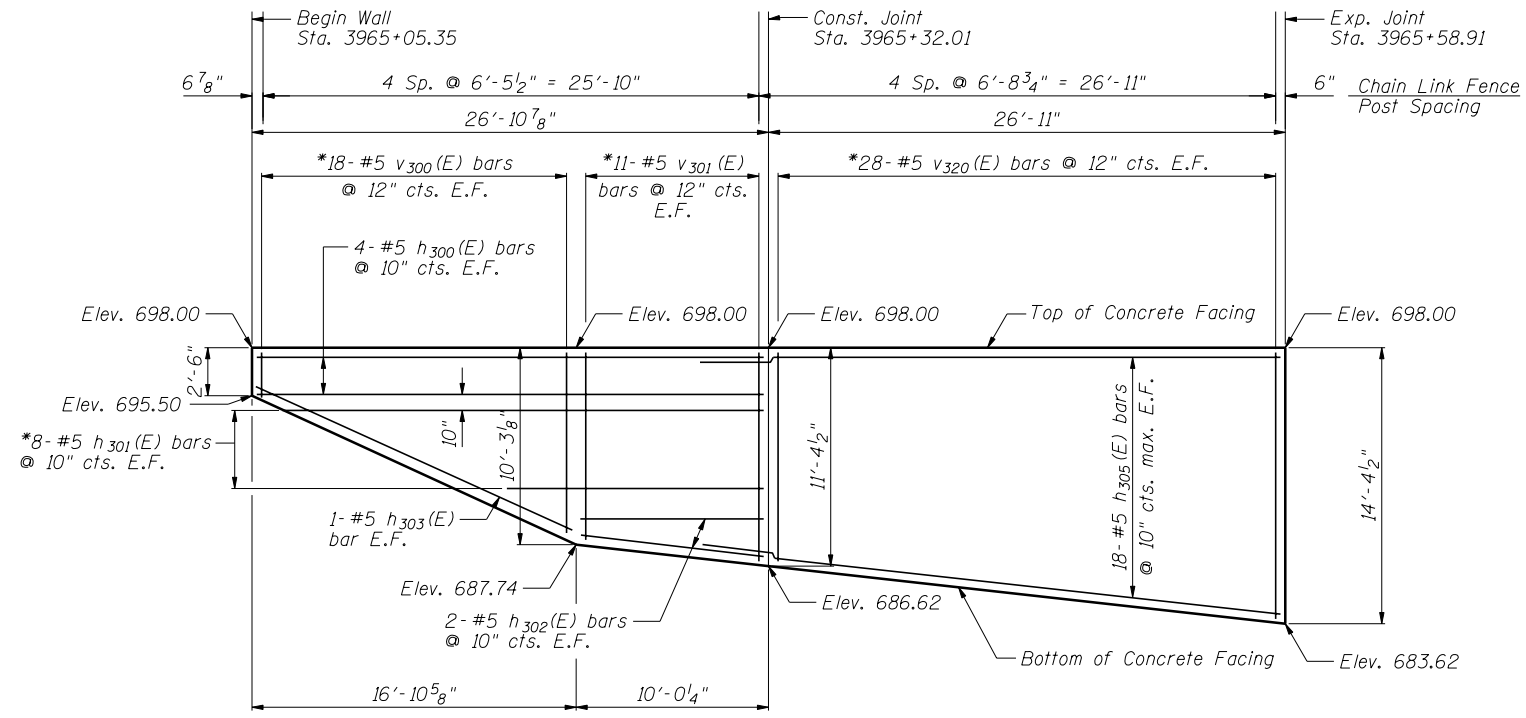
**DETAILS
STA. 3965 + 05.35 TO STA. 3971 + 00.00 SN 022-W046**

SHEET NO. SC-7 OF SC-17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60P42				

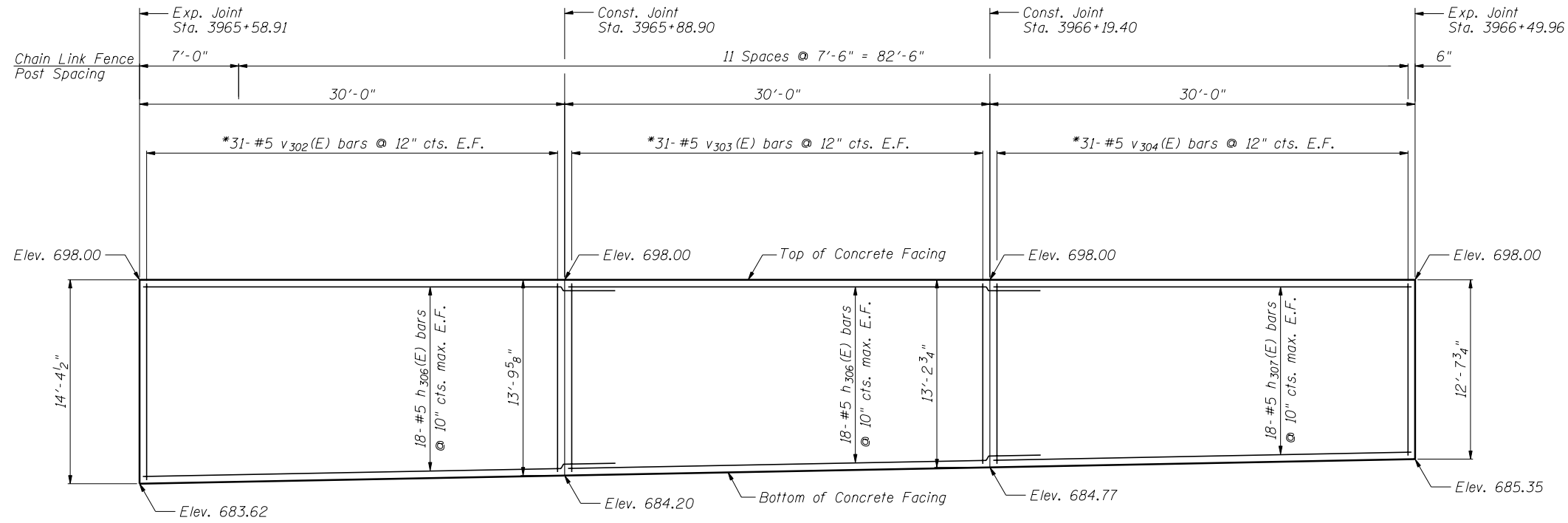
ILLINOIS FED. AID PROJECT

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ELEVATION

Notes:
 Minimum lap for #5 bar is 3'-8".
 Space reinforcement in wall to miss shear studs.
 * signifies cut bar. Order per length on Bill of Material. Cut as shown in Cutting Diagram and use half of bars in each face.
 See Sheet SC-11 for Concrete Facing Details and Bill of Material.



ELEVATION

CONCRETE FACING 1
SN 022-W046

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	CHECKED - DAZ	REVISED -
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PLOT DATE = 5/4/2012	CHECKED - LAS	REVISED -

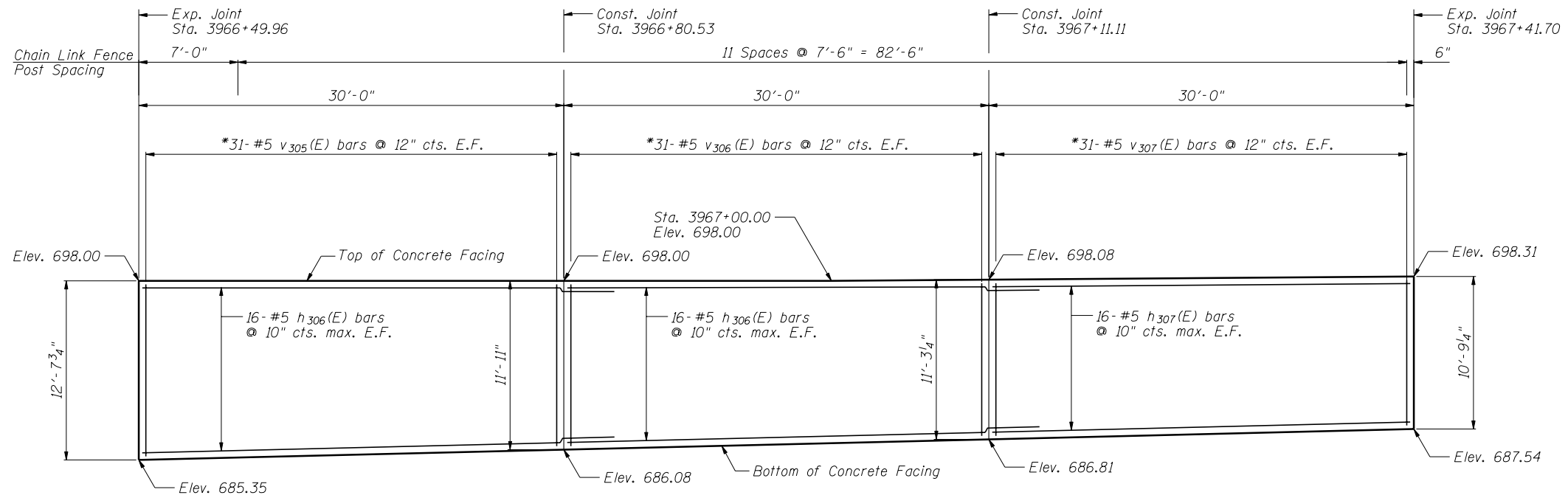
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE FACING 1
STA. 3965+05.35 TO STA. 3971+00.00 SN 022-W046

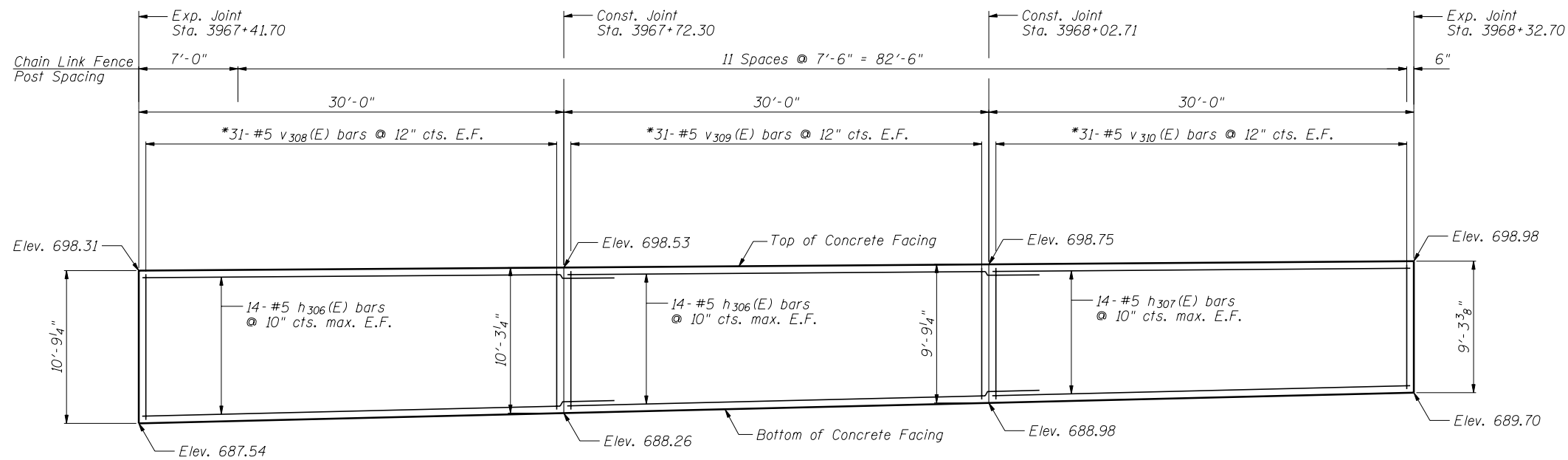
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338	2011-036-1	DUPAGE	234	61
CONTRACT NO. 60P42				

SHEET NO. SC-8 OF SC-17 SHEETS

ILLINOIS FED. AID PROJECT



ELEVATION



ELEVATION

Notes:
 Minimum lap for #5 bar is 3'-8".
 Space reinforcement in wall to miss shear studs.
 * signifies cut bar. Order per length on Bill of Material. Cut as shown in Cutting Diagram and use half of bars in each face.
 See Sheet SC-11 for Concrete Facing Details and Bill of Material.

CONCRETE FACING 2
SN 022-W046

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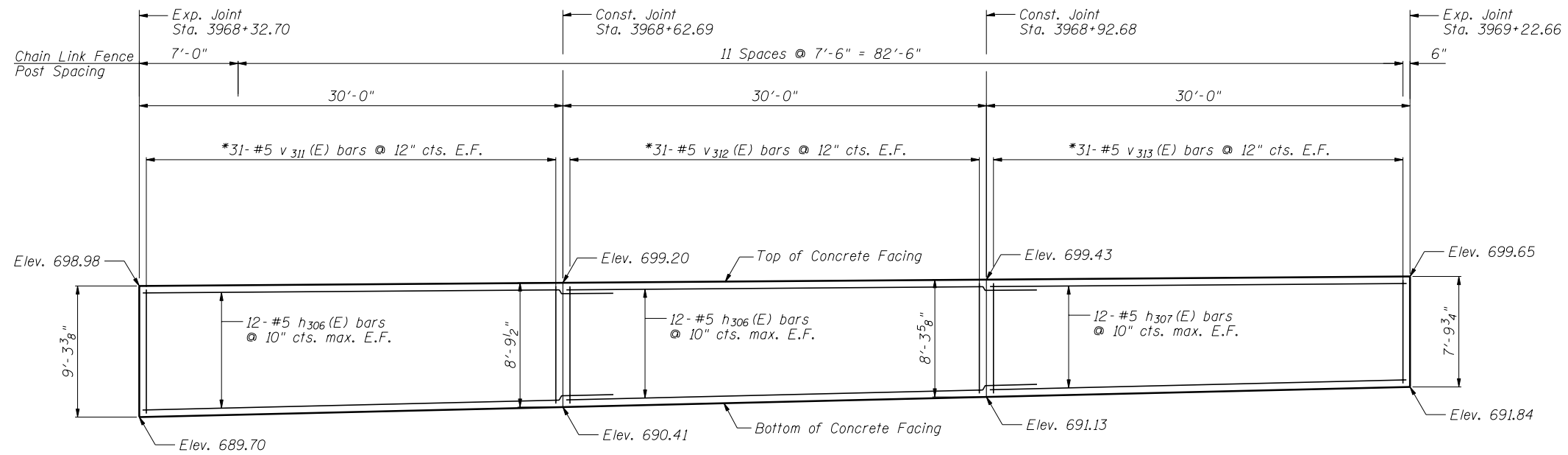
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PLOT DATE = 5/4/2012	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

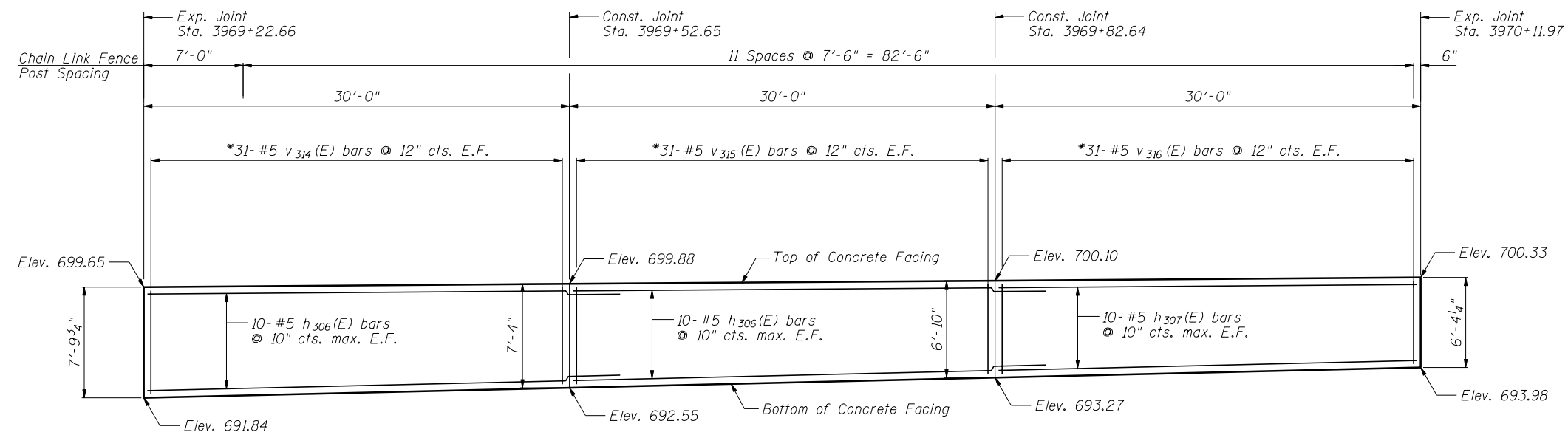
CONCRETE FACING 2
STA. 3965 + 05.35 TO STA. 3971 + 00.00 SN 022-W046

SHEET NO. SC-9 OF SC-17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	62
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				



ELEVATION



ELEVATION

Notes:

Minimum lap for #5 bar is 3'-8".

Space reinforcement in wall to miss shear studs.

* signifies cut bar. Order per length on Bill of Material. Cut as shown in Cutting Diagram and use half of bars in each face.

See Sheet SC-11 for Concrete Facing Details and Bill of Material.

CONCRETE FACING 3
SN 022-W046



Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

USER NAME = SAW	DESIGNED - LAS	REVISED -
	CHECKED - DAZ	REVISED -
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PLOT DATE = 5/4/2012	CHECKED - LAS	REVISED -

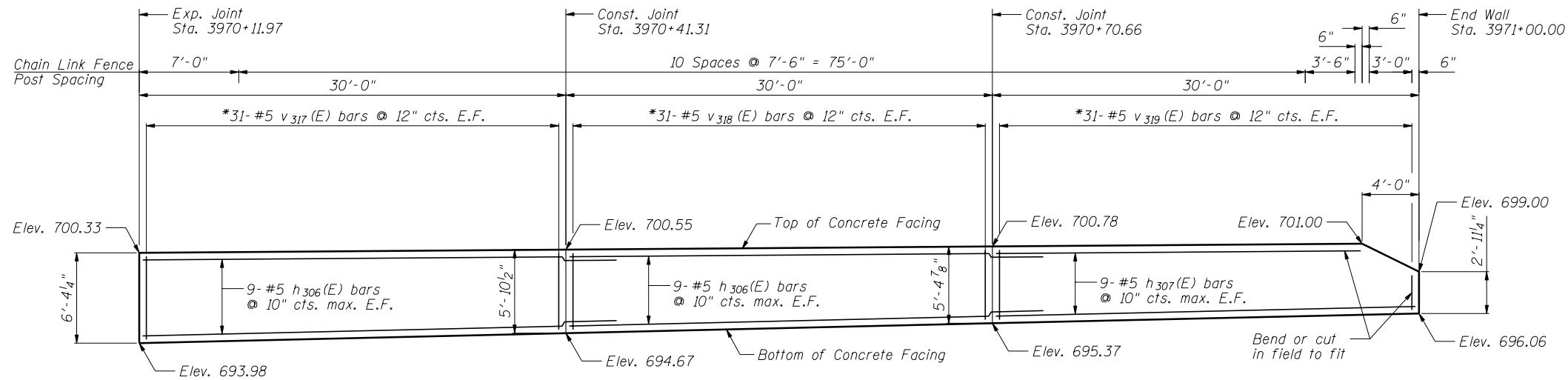
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE FACING 3
STA. 3965+05.35 TO STA. 3971+00.00 SN 022-W046

SHEET NO. SC-10 OF SC-17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	63
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				

FILE NAME = ...60P42-W046-010-ConcreteFacing3.dgn

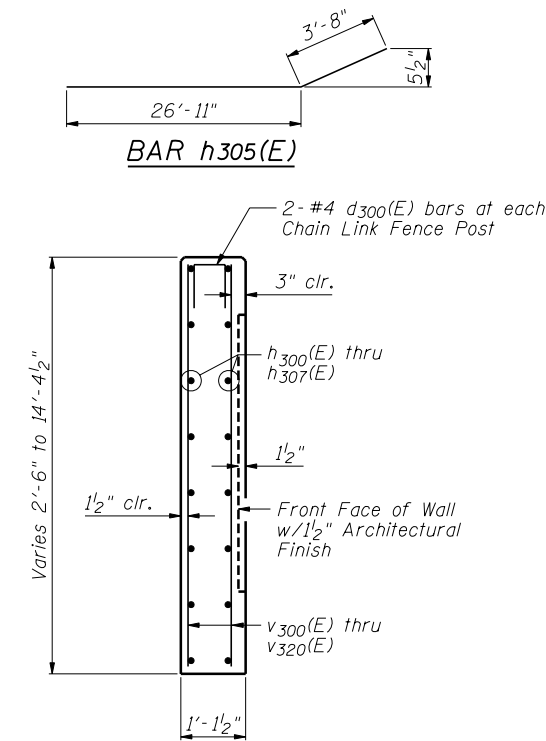
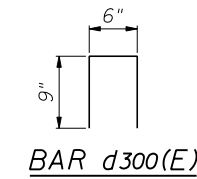


ELEVATION

Notes:
 Minimum lap for #5 bar is 3'-8".
 Space reinforcement in wall to miss shear studs.
 * signifies cut bar. Order per length on Bill of Material. Cut as shown in Cutting Diagram and use half of bars in each face.

BILL OF MATERIAL

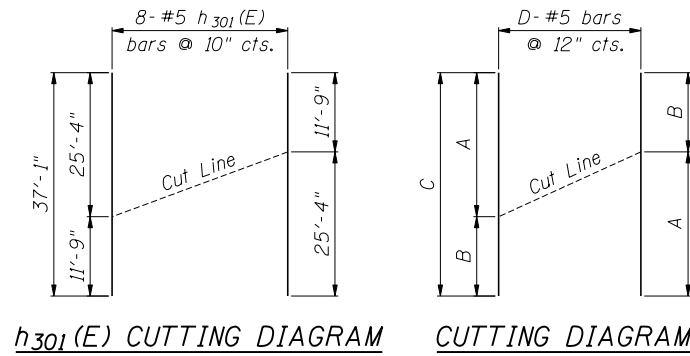
Bar	No.	Size	Length	Shape
d ₃₀₀ (E)	166	#4	2'-0"	□
h ₃₀₀ (E)	8	#5	26'-7"	—
h ₃₀₁ (E)	8	#5	37'-1"	—
h ₃₀₂ (E)	4	#5	9'-8"	—
h ₃₀₃ (E)	2	#5	18'-3"	—
h ₃₀₅ (E)	36	#5	30'-7"	—
h ₃₀₆ (E)	316	#5	33'-8"	—
h ₃₀₇ (E)	158	#5	29'-8"	—
v ₃₀₀ (E)	18	#5	12'-2"	—
v ₃₀₁ (E)	11	#5	21'-0"	—
v ₃₀₂ (E)	31	#5	27'-6"	—
v ₃₀₃ (E)	31	#5	26'-4"	—
v ₃₀₄ (E)	31	#5	25'-2"	—
v ₃₀₅ (E)	31	#5	23'-11"	—
v ₃₀₆ (E)	31	#5	22'-6"	—
v ₃₀₇ (E)	31	#5	21'-4"	—
v ₃₀₈ (E)	31	#5	20'-4"	—
v ₃₀₉ (E)	31	#5	19'-4"	—
v ₃₁₀ (E)	31	#5	18'-4"	—
v ₃₁₁ (E)	31	#5	17'-4"	—
v ₃₁₂ (E)	31	#5	16'-5"	—
v ₃₁₃ (E)	31	#5	15'-6"	—
v ₃₁₄ (E)	31	#5	14'-6"	—
v ₃₁₅ (E)	31	#5	13'-6"	—
v ₃₁₆ (E)	31	#5	12'-6"	—
v ₃₁₇ (E)	31	#5	11'-6"	—
v ₃₁₈ (E)	31	#5	10'-7"	—
v ₃₁₉ (E)	31	#5	9'-8"	—
v ₃₂₀ (E)	28	#5	25'-0"	—
Item	Unit	Quantity		
Concrete Structures	Cu. Yd.	234.9		
Reinforcement Bars, Epoxy Coated	Pound	29,710		
Pipe Underdrains for Structures, 4"	Foot	594		
Geocomposite Wall Drain	Sq. Yd.	368		



SECTION THRU CONCRETE FACING

**CONCRETE FACING & DETAILS
 SN 022-W046**

Bar	A	B	C	D
v ₃₀₀ (E)	2'-2"	10'-0"	12'-2"	18
v ₃₀₁ (E)	10'-0"	11'-0"	21'-0"	11
v ₃₀₂ (E)	14'-0"	13'-6"	27'-6"	31
v ₃₀₃ (E)	13'-6"	12'-10"	26'-4"	31
v ₃₀₄ (E)	12'-10"	12'-4"	25'-2"	31
v ₃₀₅ (E)	12'-4"	11'-7"	23'-11"	31
v ₃₀₆ (E)	11'-7"	10'-11"	22'-6"	31
v ₃₀₇ (E)	10'-11"	10'-5"	21'-4"	31
v ₃₀₈ (E)	10'-5"	9'-11"	20'-4"	31
v ₃₀₉ (E)	9'-11"	9'-5"	19'-4"	31
v ₃₁₀ (E)	9'-5"	8'-11"	18'-4"	31
v ₃₁₁ (E)	8'-11"	8'-5"	17'-4"	31
v ₃₁₂ (E)	8'-5"	8'-0"	16'-5"	31
v ₃₁₃ (E)	8'-0"	7'-6"	15'-6"	31
v ₃₁₄ (E)	7'-6"	7'-0"	14'-6"	31
v ₃₁₅ (E)	7'-0"	6'-6"	13'-6"	31
v ₃₁₆ (E)	6'-6"	6'-0"	12'-6"	31
v ₃₁₇ (E)	6'-0"	5'-6"	11'-6"	31
v ₃₁₈ (E)	5'-6"	5'-1"	10'-7"	31
v ₃₁₉ (E)	5'-1"	4'-7"	9'-8"	31
v ₃₂₀ (E)	11'-0"	14'-0"	25'-0"	28



h₃₀₁(E) CUTTING DIAGRAM CUTTING DIAGRAM

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CONCRETE FACING & DETAILS
 STA. 3965+05.35 TO STA. 3971+00.00 SN 022-W046**

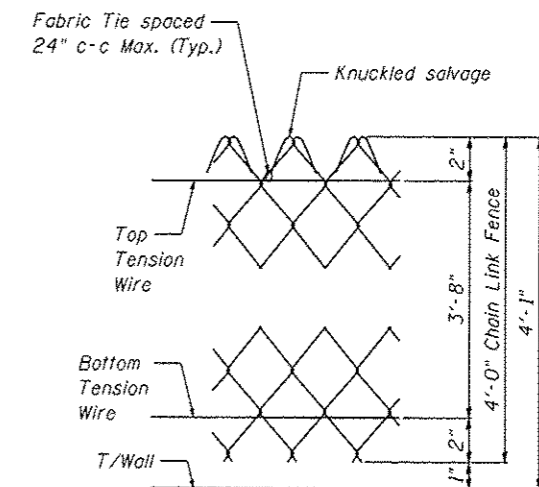
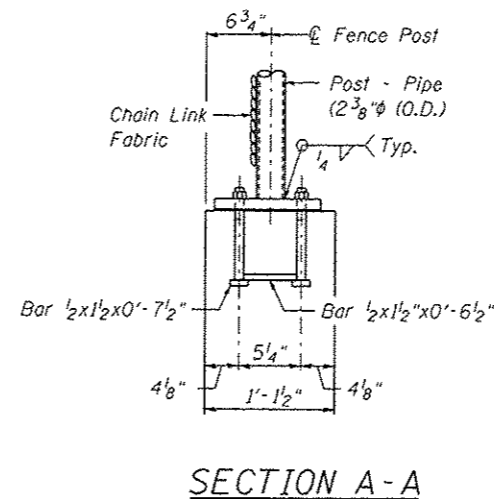
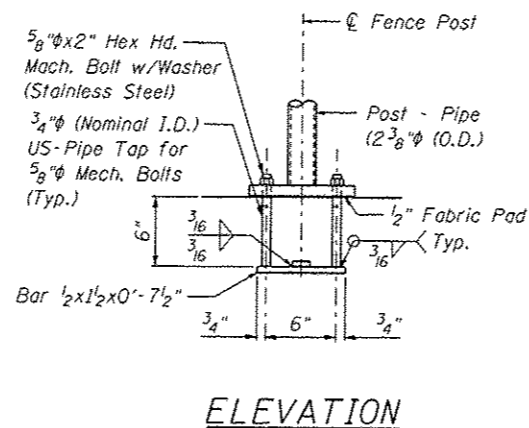
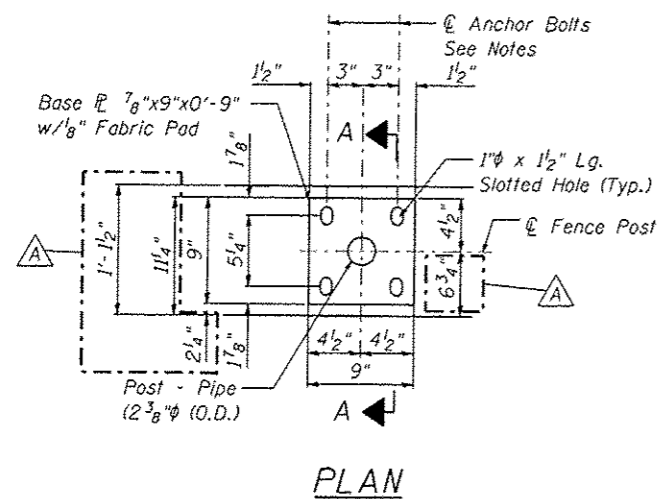
SHEET NO. SC-11 OF SC-17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	64
				CONTRACT NO. 60P42
ILLINOIS FED. AID PROJECT				

FILE NAME = ...EGP42-W046-011-ConcreteFacing.dgn

ZROKA engineering
 Zroka Engineering, P.C.
 4216 North Hermitage
 Chicago, IL 60613

USER NAME = SAW	DESIGNED - LAS	REVISED -
	CHECKED - DAZ	REVISED -
PLOT SCALE = 10.0000 "/ IN.	DRAWN - SAW	REVISED -
PLOT DATE = 5/4/2012	CHECKED - LAS	REVISED -



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

FENCE POST ANCHOR ASSEMBLY DETAILS

CHAIN LINK FENCE
SN 022-W046

FILE NAME: ... \60P42-W046-012-FenceDetails.dgn

ZROKA
engineering
Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

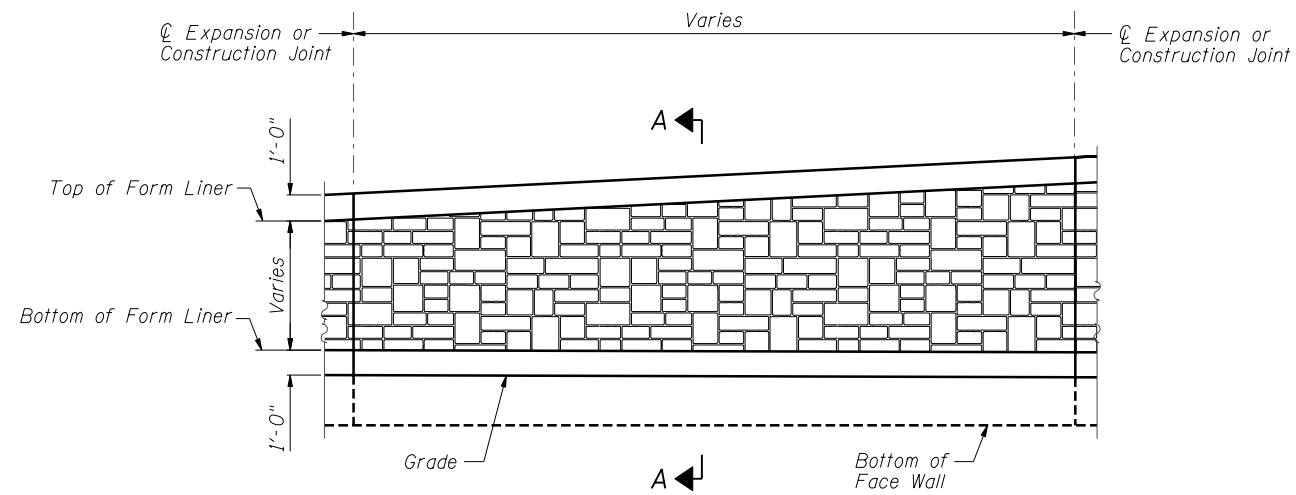
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

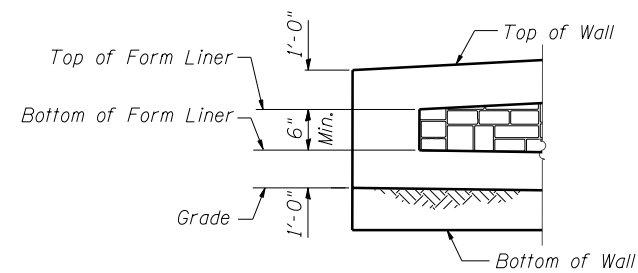
CHAIN LINK FENCE
STA. 3965 + 05.35 TO STA. 3971 + 00.00 SN 022-W046

SHEET NO. SC-12 OF SC-17 SHEETS

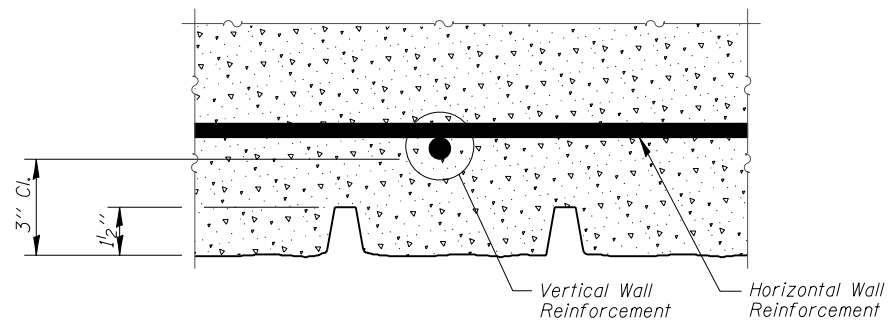
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338	2011-036-1	DUPAGE	234	65
CONTRACT NO. 60P42			ILLINOIS FED. AID PROJECT	



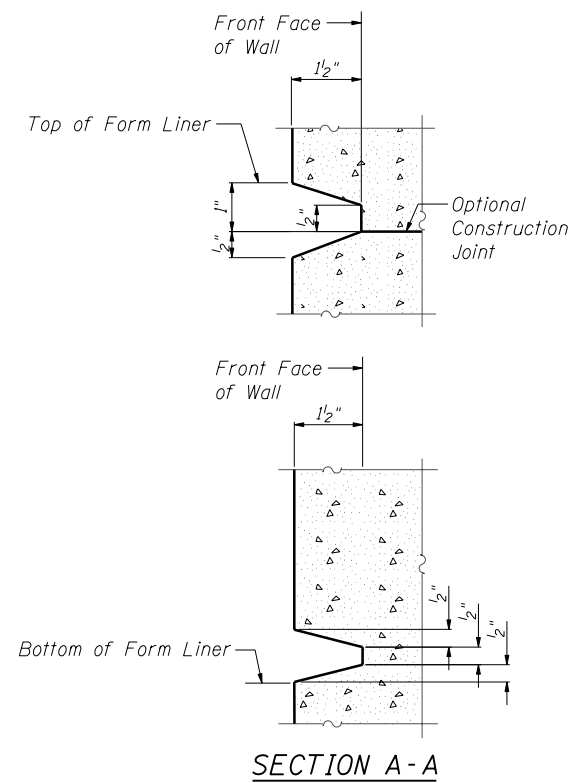
ELEVATION - FORM LINER



END FORM LINER FINISH



PLAN - FORM LINER



SECTION A-A

FORM LINER ELEVATION TABLE

Station	Form Liner Top Elevation	Form Liner Bottom Elevation
3965+05.35	None	None
3965+09.65	697.00	696.50
3965+22.16	697.00	690.74
3965+32.01	697.00	689.62
3965+58.91	697.00	686.62
3965+88.90	697.00	687.20
3966+19.40	697.00	687.77
3966+49.96	697.00	688.35
3966+80.53	697.00	689.08
3967+00.00	697.00	689.54
3967+11.11	697.08	689.81
3967+41.70	697.31	690.54
3967+72.30	697.53	691.26
3968+02.71	697.75	691.98
3968+32.70	697.98	692.70
3968+62.69	698.20	693.41
3968+92.68	698.43	694.13
3969+22.66	698.65	694.84
3969+52.65	698.88	695.55
3969+82.64	699.10	696.27
3970+11.97	699.33	696.98
3970+41.31	699.55	697.67
3970+70.66	699.78	698.37
3970+96.09	700.00	698.97
3971+00.00	None	None

FILE NAME = ...EGP42-W046-013-ArchFinsh.dgn



Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

USER NAME = SAW
PLOT SCALE = 0.1667' / IN.
PLOT DATE = 5/4/2012

DESIGNED - LAS
CHECKED - DAZ
DRAWN - SAW
CHECKED - LAS

REVISED -
REVISED -
REVISED -
REVISED -

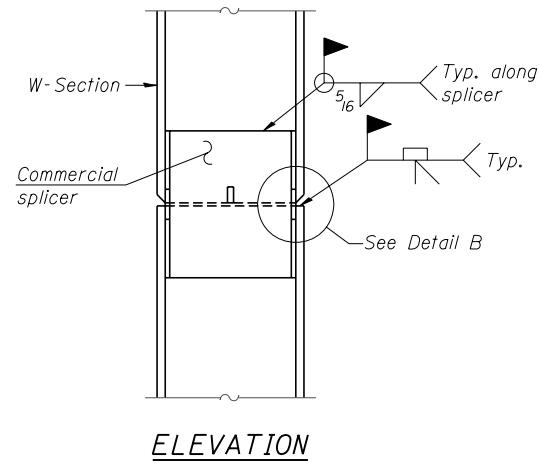
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARCHITECTURAL FINISH DETAILS
STA. 3965 + 05.35 TO STA. 3971 + 00.00 SN 022-W046**

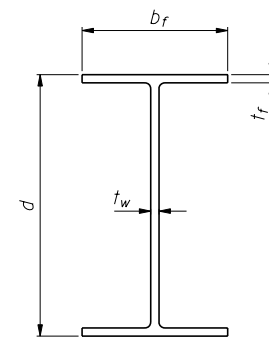
SHEET NO. SC-13 OF SC-17 SHEETS

**ARCHITECTURAL FINISH DETAILS
SN 022-W046**

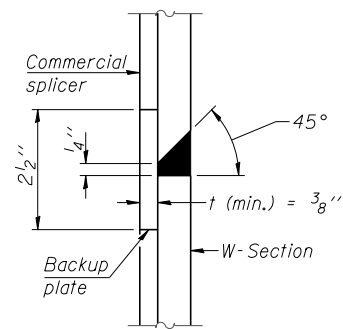
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	66
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				



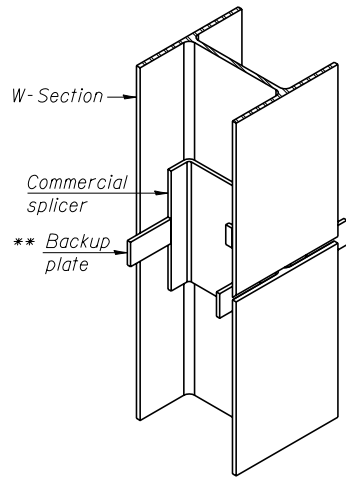
ELEVATION



Designation	Depth d	Flange width b _f	Flange thickness t _f	Web thickness t _w	Encasement diameter A
W33x141	33 1/4"	11 1/2"	1 5/16"	5/8"	42"

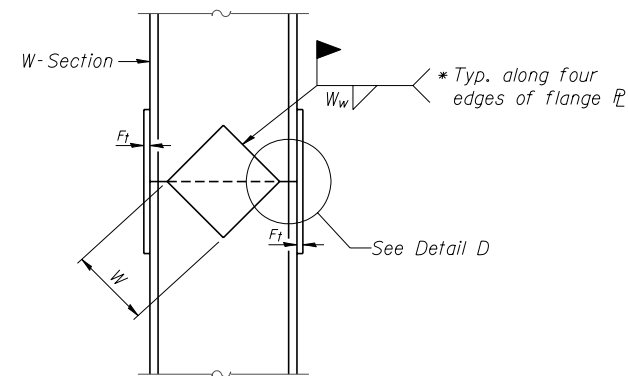


DETAIL "B"

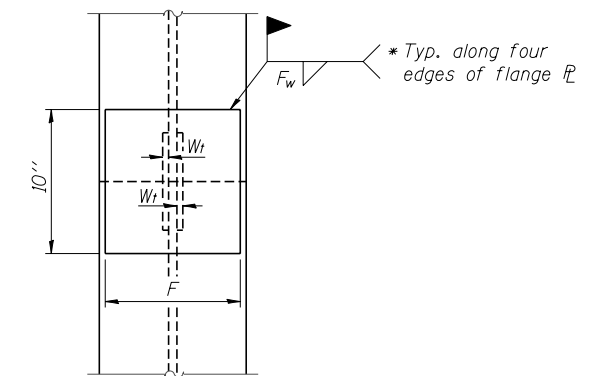


ISOMETRIC VIEW

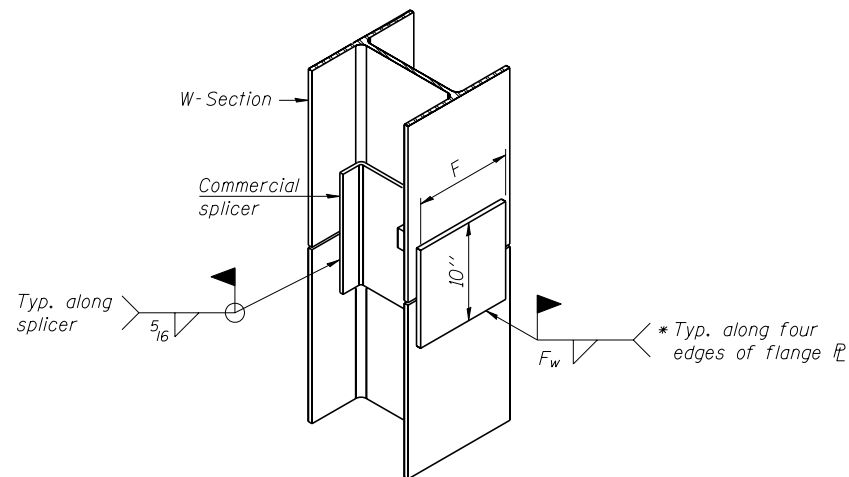
WELDED COMMERCIAL SPLICE



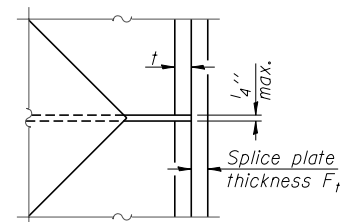
ELEVATION



END VIEW



ISOMETRIC VIEW



DETAIL D

Designation	F	F _t	F _w	W	W _t	W _w
W33x141	9"	1 1/4"	1"	21"	5/8"	1/2"

WELDED PLATE FIELD SPLICE

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.

Note:
The steel W-Sections shall be according to AASHTO M270 Grade 36.

PILE SPLICE DETAILS
SN 022-W046



Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

USER NAME = SAW	DESIGNED - LAS	REVISED -
	CHECKED - DAZ	REVISED -
PLOT SCALE = 0.1667' / IN.	DRAWN - SAW	REVISED -
PLOT DATE = 5/4/2012	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PILE SPLICE DETAILS
STA. 3965 + 05.35 TO STA. 3971 + 00.00 SN 022-W046

SHEET NO. SC-14 OF SC-17 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	67
CONTRACT NO. 60P42				

ILLINOIS FED. AID PROJECT

FILE NAME = ...EGP42-W046-014-PileSpliceDetail.dgn

BORING LOG RW-16

BORING LOG RW-17

BORING LOG RW-18

SOIL BORING LOG											
Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amberst-Curtis Square 204 Naperville, Illinois 60565 (630) 355-3838					PAGE 1 of 1 DATE 1/7/2011 LOGGED BY RJ GSI JOB No. 09173						
ROUTE II, Route 59 (FAP 338) DESCRIPTION Illinois Route 59-Aurora Avenue/New York Street To Ferry Road SECTION (112 & 113) WRS-5 LOCATION SEC. 3, 9-10, 15-16, 21-22 TWP. 38N, RNG. 9E, Naperville Township COUNTY DuPage DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic											
STRUCT. NO. 022-W046 Station: 3965+21 to 3971+20		Surface Water Elev. n/a Stream Bed Elev. n/a		DEPTH (ft) / 6" (tsf) (%)		BLOW COUNT (Blows/6")		U.C.S. (tsf) (%)		M.O.I.S.T. (pcf) (%)	
BORING NO. RW-16 Station: 3967+38 IL RTE-59 Offset: 61.0' Left Ground Surface Elev. 695.4		Groundwater Elevation: First Encounter 666.9 Upon Completion 666.4 After Hrs.		DEPTH (ft) / 6" (tsf) (%)		BLOW COUNT (Blows/6")		U.C.S. (tsf) (%)		M.O.I.S.T. (pcf) (%)	
TOPSOIL-black		694.4		AS - 26		3		111			
SILTY CLAY-dark gray & black-very stiff (A-6)		692.4		3 1B 23		4		105			
CLAY-gray-very stiff to hard (A-6)				3 97		5		100			
CLAY-brown & gray-very stiff to hard (A-6)				2 100		6		113			
CLAY-gray-very stiff to hard (A-6)				2 100		7		118			
SILTY SAND-brown-medium dense (A-2)		684.9		3 15		8		116			
CLAY-gray-very stiff to hard (A-6)				3 113		9		119			
Clayey SAND, GRAVEL & FRACTURED ROCK-gray-very dense (A-1)				50/1*		10		122			
End Of Boring @ -35.0' Hollow Stem Augers CME Automatic Hammer		660.4		-35		11		125			
				-40		12		128			

SOIL BORING LOG											
Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amberst-Curtis Square 204 Naperville, Illinois 60565 (630) 355-3838					PAGE 1 of 1 DATE 1/7/2011 LOGGED BY RJ GSI JOB No. 09173						
ROUTE II, Route 59 (FAP 338) DESCRIPTION Illinois Route 59-Aurora Avenue/New York Street To Ferry Road SECTION (112 & 113) WRS-5 LOCATION SEC. 3, 9-10, 15-16, 21-22 TWP. 38N, RNG. 9E, Naperville Township COUNTY DuPage DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic											
STRUCT. NO. 022-W046 Station: 3965+21 to 3971+20		Surface Water Elev. n/a Stream Bed Elev. n/a		DEPTH (ft) / 6" (tsf) (%)		BLOW COUNT (Blows/6")		U.C.S. (tsf) (%)		M.O.I.S.T. (pcf) (%)	
BORING NO. RW-17 Station: 3968+13 IL RTE-59 Offset: 57.0' Left Ground Surface Elev. 696.2		Groundwater Elevation: First Encounter Dry Upon Completion Dry After Hrs.		DEPTH (ft) / 6" (tsf) (%)		BLOW COUNT (Blows/6")		U.C.S. (tsf) (%)		M.O.I.S.T. (pcf) (%)	
TOPSOIL with Stone-black		695.7		AS - 18		4		116			
CLAY LOAM-dark brown, gray & black-very stiff (A-6) Fill		693.2		3 105		5		110			
CLAY-gray-very stiff to hard (A-6)				3 110		6		114			
CLAY-brown & gray-very stiff (A-6)				2 100		7		118			
CLAY-gray-very stiff to hard (A-6)				2 100		8		122			
LOAM-gray-medium dense to dense (A-4/A-6)		683.2		3 16		9		125			
CLAY-gray-very stiff to hard (A-6)				3 113		10		128			
End Of Boring @ -35.0' Hollow Stem Augers CME Automatic Hammer		661.2		-35		11		130			
				-40		12		133			

SOIL BORING LOG											
Geo Services, Inc. Geotechnical, Environmental & Civil Engineering 805 Amberst-Curtis Square 204 Naperville, Illinois 60565 (630) 355-3838					PAGE 1 of 1 DATE 12/28/2010 LOGGED BY RJ GSI JOB No. 09173						
ROUTE II, Route 59 (FAP 338) DESCRIPTION Illinois Route 59-Aurora Avenue/New York Street To Ferry Road SECTION (112 & 113) WRS-5 LOCATION SEC. 3, 9-10, 15-16, 21-22 TWP. 38N, RNG. 9E, Naperville Township COUNTY DuPage DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic											
STRUCT. NO. 022-W046 Station: 3965+21 to 3971+20		Surface Water Elev. n/a Stream Bed Elev. n/a		DEPTH (ft) / 6" (tsf) (%)		BLOW COUNT (Blows/6")		U.C.S. (tsf) (%)		M.O.I.S.T. (pcf) (%)	
BORING NO. RW-18 Station: 3968+83 IL RTE-59 Offset: 60.0' Left Ground Surface Elev. 696.4		Groundwater Elevation: First Encounter 687.9 Upon Completion 684.4 After Hrs.		DEPTH (ft) / 6" (tsf) (%)		BLOW COUNT (Blows/6")		U.C.S. (tsf) (%)		M.O.I.S.T. (pcf) (%)	
SILTY CLAY-brown & gray-(A-6) Wet		695.4		AS - 36		4		116			
CLAY LOAM-brown & gray-very stiff to hard (A-6)		685.9		3 111		5		114			
CLAY-gray-very stiff to hard (A-6)				3 119		6		118			
End Of Boring @ -20.0' Hollow Stem Augers CME Automatic Hammer		676.4		-20		7		121			
				-40		8		124			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Ridge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in Italics above moist (%) NR-No Recovery

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Ridge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in Italics above moist (%) NR-No Recovery

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Ridge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in Italics above moist (%) NR-No Recovery

FILE NAME = ...\\60P42-W046-016-Bor-ml-Log2.dgn



USER NAME = SAW	DESIGNED - LAS	REVISED -
CHECKED - DAZ	DRAWN - SAW	REVISED -
PLOT SCALE = 2.00' / IN.	CHECKED - LAS	REVISED -
PLOT DATE = 5/4/2012		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION


BORING LOGS 2
STA. 3965 + 05.35 TO STA. 3971 + 00.00 SN 022-W046

SHEET NO. SC-16 OF SC-17 SHEETS

F.A.P. RTE. 338	SECTION 2011-036-1	COUNTY DUPAGE	TOTAL SHEETS 234	SHEET NO. 69
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				

BORING LOGS 2
SN 022-W046

BORING LOG NW-01

 Geo Services Inc. Geotechnical, Environmental & Civil Engineering 805 Archer St. Suite 204 Naperville, IL 60563 (630) 301-1738		SOIL BORING LOG		PAGE 1 of 1 DATE 12/28/2010 LOGGED BY RJ GSI JOB No. 09173					
ROUTE <u>Il. Route 59 (FAP 338)</u> DESCRIPTION <u>Illinois Route 59-Aurora Avenue/New York Street To Ferry Road</u>									
SECTION <u>(112 & 113) WRS-5</u> LOCATION <u>SEC. 3, 9-10, 15-16, 21-22 TWP. 38N, RNG. 9E, Naperville Township</u>									
COUNTY <u>DuPage</u> DRILLING METHOD <u>Hollow Stem Auger</u> HAMMER TYPE <u>CME Automatic</u>									
STRUCT. NO. <u>XX</u> Station: <u>3965+26 to 3973+55</u>									
BORING NO. <u>NW-01</u> Station: <u>3971+50 IL RTE-59</u> Offset: <u>61.0' Left</u> Ground Surface Elev. <u>700.1</u>									
	D E P T H S (ft)	B L O C K S (/ft)	U C S (tsf)	M O I S T U R E (%)	Surface Water Elev. <u>n/a</u> Stream Bed Elev. <u>n/a</u> Groundwater Elevation: First Encounter <u>Dry</u> ▼ Upon Completion <u>Dry</u> ▼ After _____ Hrs. _____ ▼	D E P T H S (ft)	B L O C K S (/ft)	U C S (tsf)	M O I S T U R E (%)
4.0' TOPSOIL-black		699.7							
SILTY CLAY-dark brown to black-very stiff (A-6)		AS	-	37					
		3		95					
		5							
		7	2.7B	24					
		697.1							
CLAY-brown & gray-stiff to hard (A-6)		2		92					
		4							
		-5	4 1.8B	26				-25	
		689.6							
CLAY-gray-very stiff to hard (A-6)		2							
		4							
		6	1.5P	23					
		688.6							
CLAY-gray-very stiff to hard (A-6)		2		108					
		8							
		-10	8 6.2B	19				-30	
		680.6							
CLAY-gray-very stiff to hard (A-6)		6		111					
		8							
		10	5.9B	18					
		680.1							
CLAY-gray-very stiff to hard (A-6)		4							
		6							
		-15	8 4.5P	18				-35	
		680.1							
CLAY-gray-very stiff to hard (A-6)		6		115					
		8							
		10	5.9B	17					
		680.1							
End Of Boring @ -20.0' Hollow Stem Augers CME Automatic Hammer		3		109					
		6							
		-20	9 3.9B	19				-40	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-S Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

BORING LOGS 3
SN 022-W046

FILE NAME = ...EGP42-W046-017-Bor-Log3.dgn



USER NAME = SAW	DESIGNED - LAS	REVISED -
	CHECKED - DAZ	REVISED -
PLOT SCALE = 2.00' / IN.	DRAWN - SAW	REVISED -
PLOT DATE = 5/4/2012	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS 3
STA. 3965 + 05.35 TO STA. 3971 + 00.00 SN 022-W046

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	70
CONTRACT NO. 60P42				

SHEET NO. SC-17 OF SC-17 SHEETS

ILLINOIS FED. AID PROJECT

200 STA 3965+69.3, 87.0 LT
 TEMPORARY MANHOLE, 5' DIA.
 TYPE 1 FRAME, CLOSED LID
 RIM EL 699.17
 INV EL 691.90 (N) 30"
 INV EL 691.90 (E) 30"
 INV EL 692.10 (W) 12"

202 STA 3969+95.9, 82.0 LT
 TEMPORARY MANHOLE, 5' DIA.
 TYPE 1 FRAME, CLOSED LID
 RIM EL 699.72
 INV EL 692.33 (E) 30"
 INV EL 692.33 (S) 30"

204 STA 3963+91.2, 70.6 LT
 EXISTING MANHOLE, 5' DIA.
 RIM EL 696.91
 INV EL 691.73 (N) 30"
 INV EL 691.73 (S) 30"

206 STA 3971+92.9, 43.4 LT
 EXISTING MANHOLE, 5' DIA.
 RIM EL 701.64
 INV EL 692.51 (N) 30"
 INV EL 692.51 (S) 30"

200 14' - 30" P CUL CL C TY 1 TEMP @ 0.10%
 201 149' - 30" P CUL CL C TY 1 TEMP @ 0.10%
 202 269' - 30" P CUL CL C TY 1 TEMP @ 0.10%
 203 28' - 30" P CUL CL C TY 2 TEMP @ 0.10%

REMOVING MANHOLES
 3967+71.8, 63.5 LT
 3970+19.0, 66.1 LT

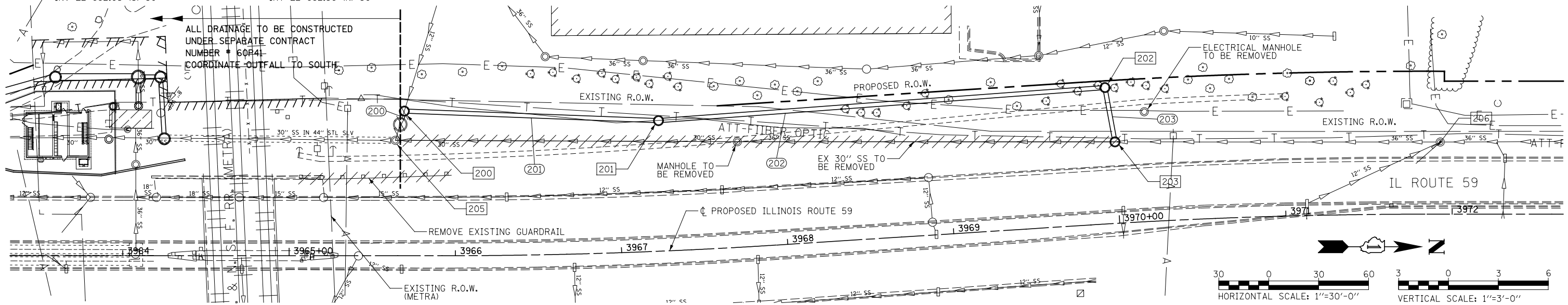
STORM SEWER REMOVAL - 12"
 STA 3965+65.0 TO 3965+70 - 19'
 STORM SEWER REMOVAL - 30"
 STA 3965+66.4 TO 3969+97.3 - 428'
 REMOVING GUARDRAIL
 STA 3965+06.4 TO 3965+97.7 - 92'

201 STA 3967+25.0, 78.5 LT
 TEMPORARY MANHOLE, 5' DIA.
 TYPE 1 FRAME, CLOSED LID
 RIM EL 695.70
 INV EL 692.05 (N) 30"
 INV EL 692.05 (S) 30"

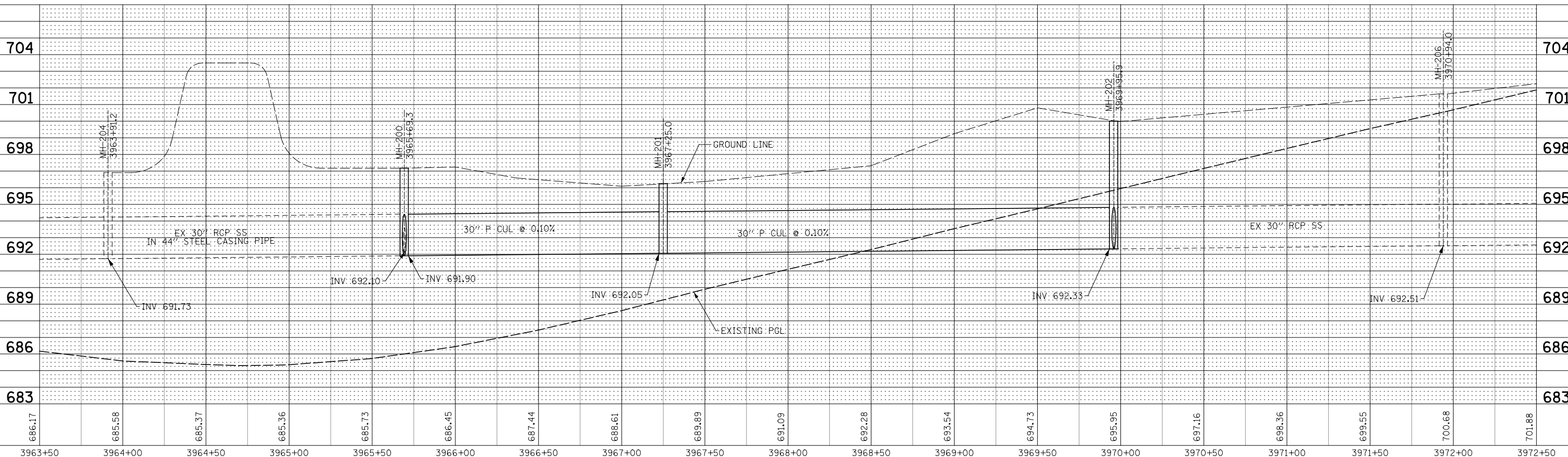
203 STA 3970+00.0, 49.0 LT
 TEMPORARY MANHOLE, 5' DIA.
 TYPE 1 FRAME, CLOSED LID
 RIM EL 697.30
 INV EL 692.36 (W) 30"
 INV EL 692.36 (N) 30"

205 STA 3965+63.9, 69.4 LT
 EXISTING MANHOLE, 5' DIA.
 RIM EL 696.20
 INV EL 691.90 (N) 30"
 INV EL 691.90 (S) 30"

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO.	
	FILE NAME	



PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTED	
	NOT AT THIS CHD	
	NO.	



FILE NAME =	USER NAME = *USER*	DESIGNED NAV	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN / PROFILE - SN 022-W046 STAGE 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = *DATE*	DATE 05-11-12	REVISED			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

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

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

210 STA 3965+66.9, 79.0 LT
EXISTING MANHOLE, 7' DIA.
RIM EL 698.00
INV EL 691.85 (N) 48"
INV EL 691.85 (S) 48"
INV EL ????.?? (W) ?"

212 STA 3970+15.0, 78.5 LT
MANHOLE TYPE A, 6' DIA.
TYPE 1 FRAME, CLOSED LID
RIM EL 700.33
INV EL 692.34 (N) 48"
INV EL 692.34 (S) 48"

214 STA 3971+36.0, 43.8 LT
MANHOLE TYPE A, 5' DIA.
TYPE 1 FRAME, CLOSED LID
RIM EL 699.68
INV EL 692.46 (SW) 30"
INV EL 692.46 (N) 30"

216 STA 3963+88.4, 64.5 LT
EXISTING MANHOLE, 5' DIA.
RIM EL 701.64
INV EL 691.62 (W) 48"
INV EL 691.62 (N) 48"

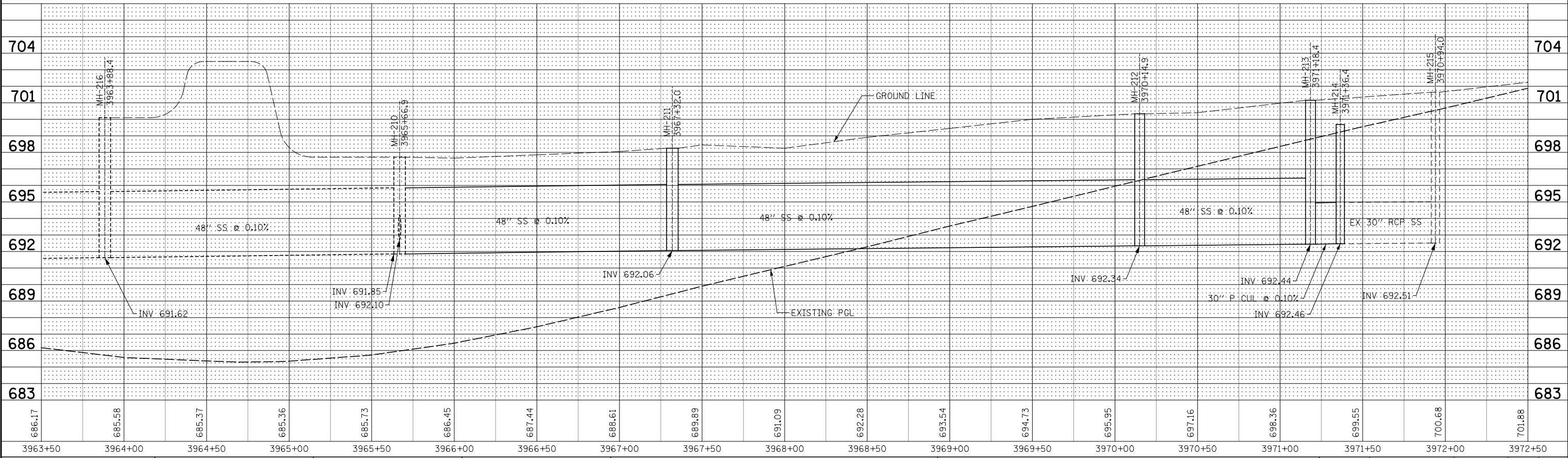
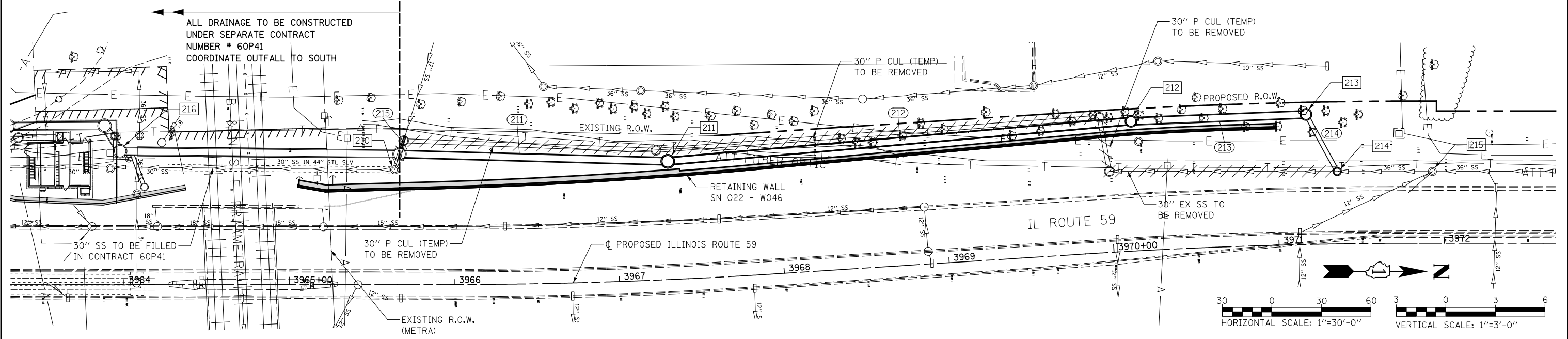
211 158' - 48" SS CLASS A, TYPE 1 @ 0.10%
212 277' - 48" SS CLASS A, TYPE 1 @ 0.10%
213 102' - 48" SS CLASS A, TYPE 2 @ 0.10%
214 34' - 30" P CUL CL C TY 2 TEMP @ 0.10%
215 8' - 12" SS CL A TY 2 @ 0.10%

STORM SEWER REMOVAL - 30"
STA 3970+03.0 TO 3971+39.9 - 138'

211 STA 3967+32.0, 71.5 LT
MANHOLE TYPE A, 7' DIA.
TYPE 1 FRAME, CLOSED LID
RIM EL 698.38
INV EL 692.06 (N) 48"
INV EL 692.06 (S) 48"

213 STA 3971+18.0, 78.5 LT
MANHOLE TYPE A, 6' DIA.
TYPE 1 FRAME, CLOSED LID
RIM EL 701.15
INV EL 692.44 (S) 48"
INV EL 692.44 (NE) 30"

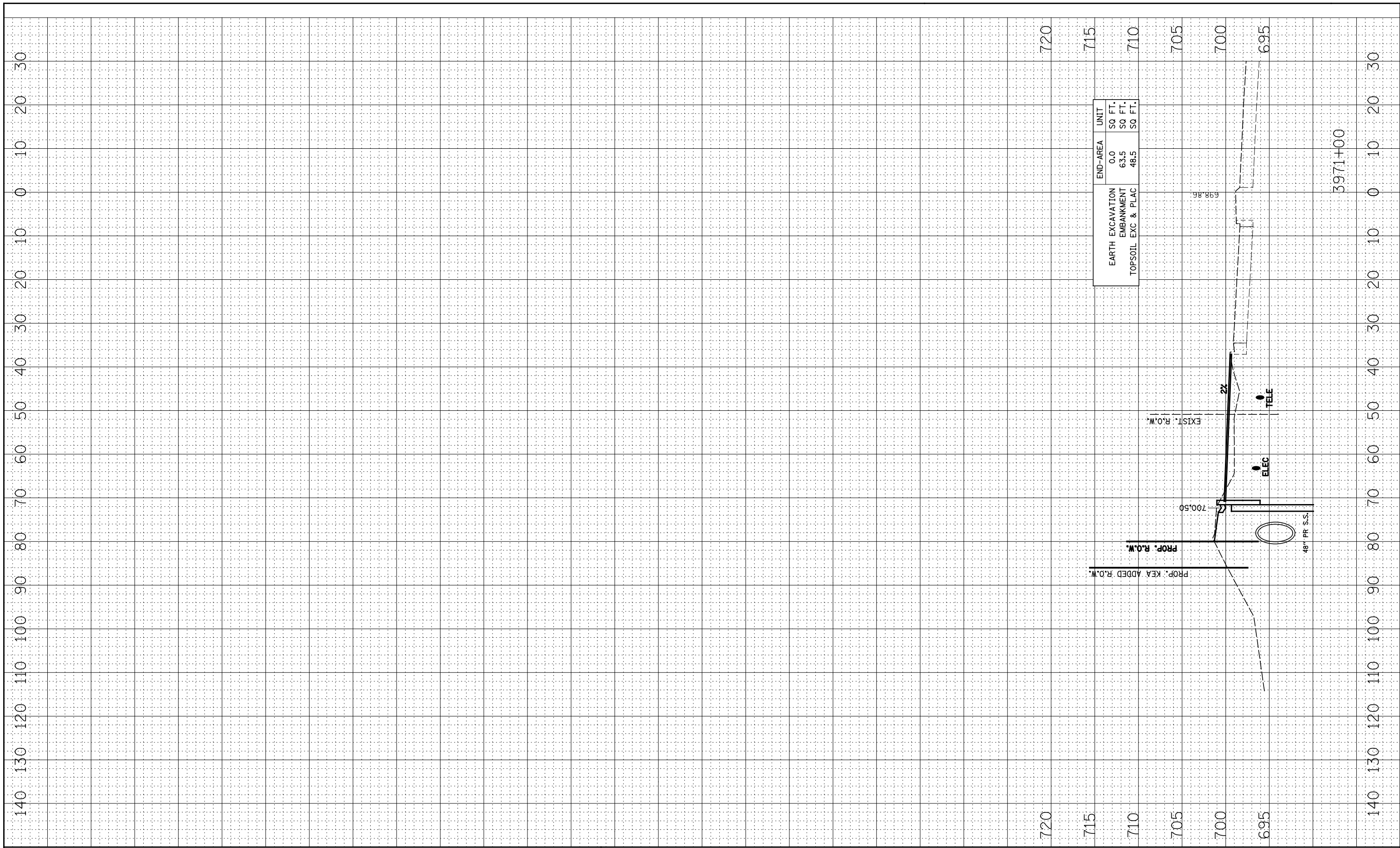
215 STA 3971+92.9, 43.4 LT
EXISTING MANHOLE, 5' DIA.
RIM EL 701.64
INV EL 692.51 (N) 30"
INV EL 692.51 (S) 30"



FILE NAME =	USER NAME = *USER*	DESIGNED NAV	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN / PROFILE - SN 022-W046 STAGE 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE 05-11-12	REVISED			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

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NOTE BOOK NO.	TEMPLATE AREAS CHECKED		

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



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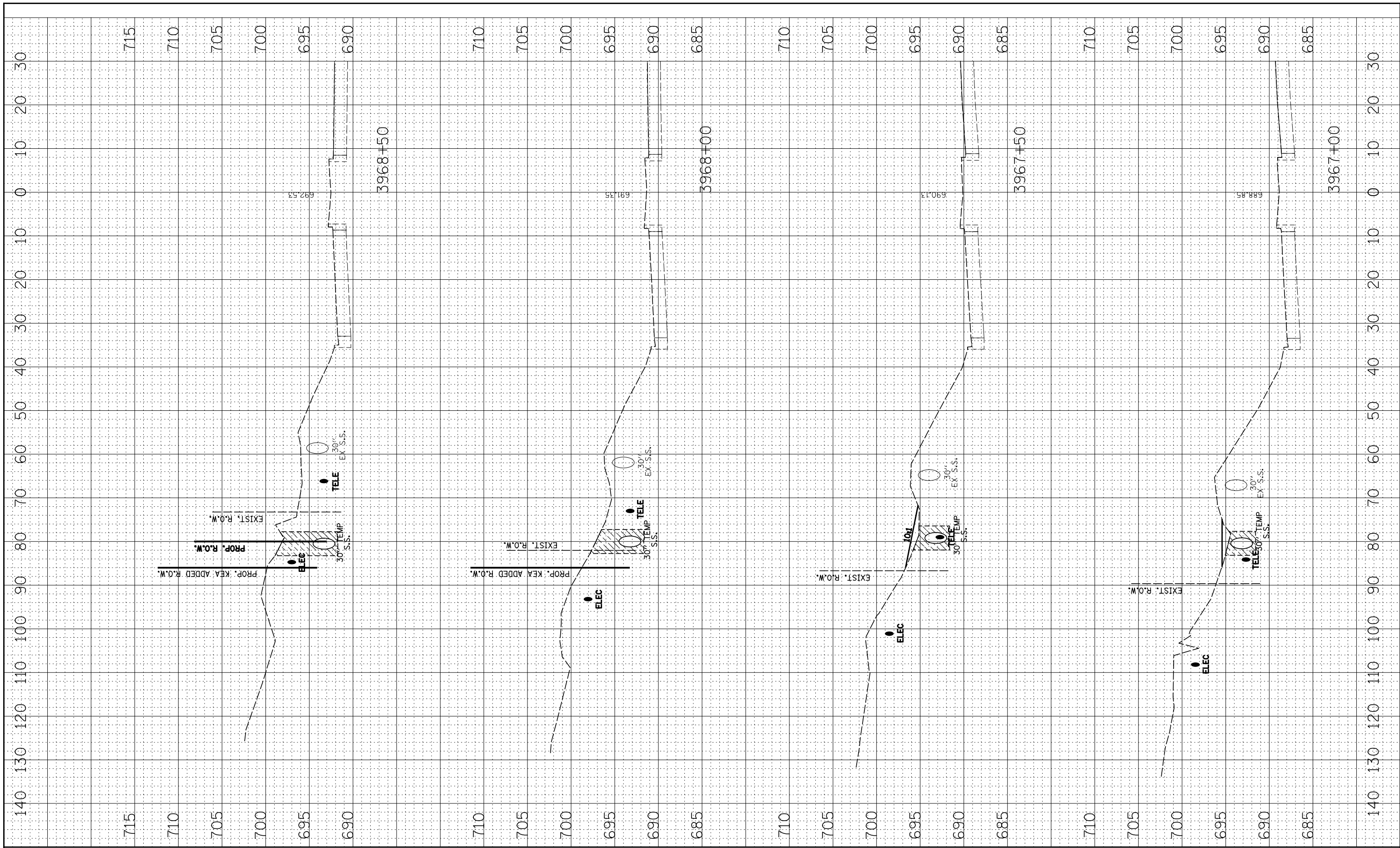
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SN 022-W046 CROSS-SECTIONS	
SCALE:	SHEET NO. 4 OF 4 SHEETS STA. 3971+00 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-I	DUPAGE	234	77
CONTRACT NO. 60P42				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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NOTE BOOK	PLOTTED
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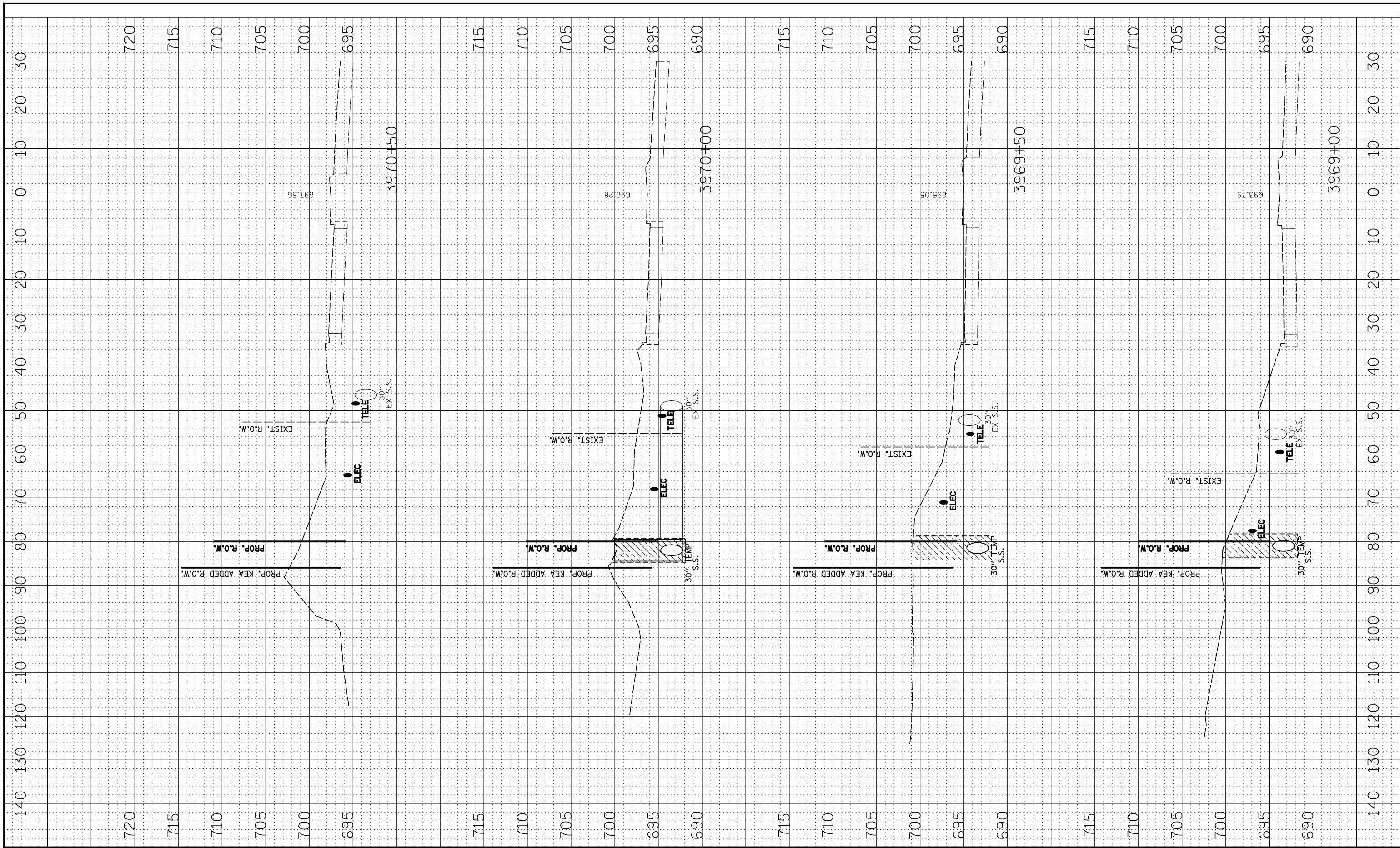
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NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



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		DATE - 05-11-12	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
SCALE:		SHEET NO. 2 OF 4 SHEETS		STA. 3967+00 TO STA. 3968+50							

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

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



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DATE - 05-11-12

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

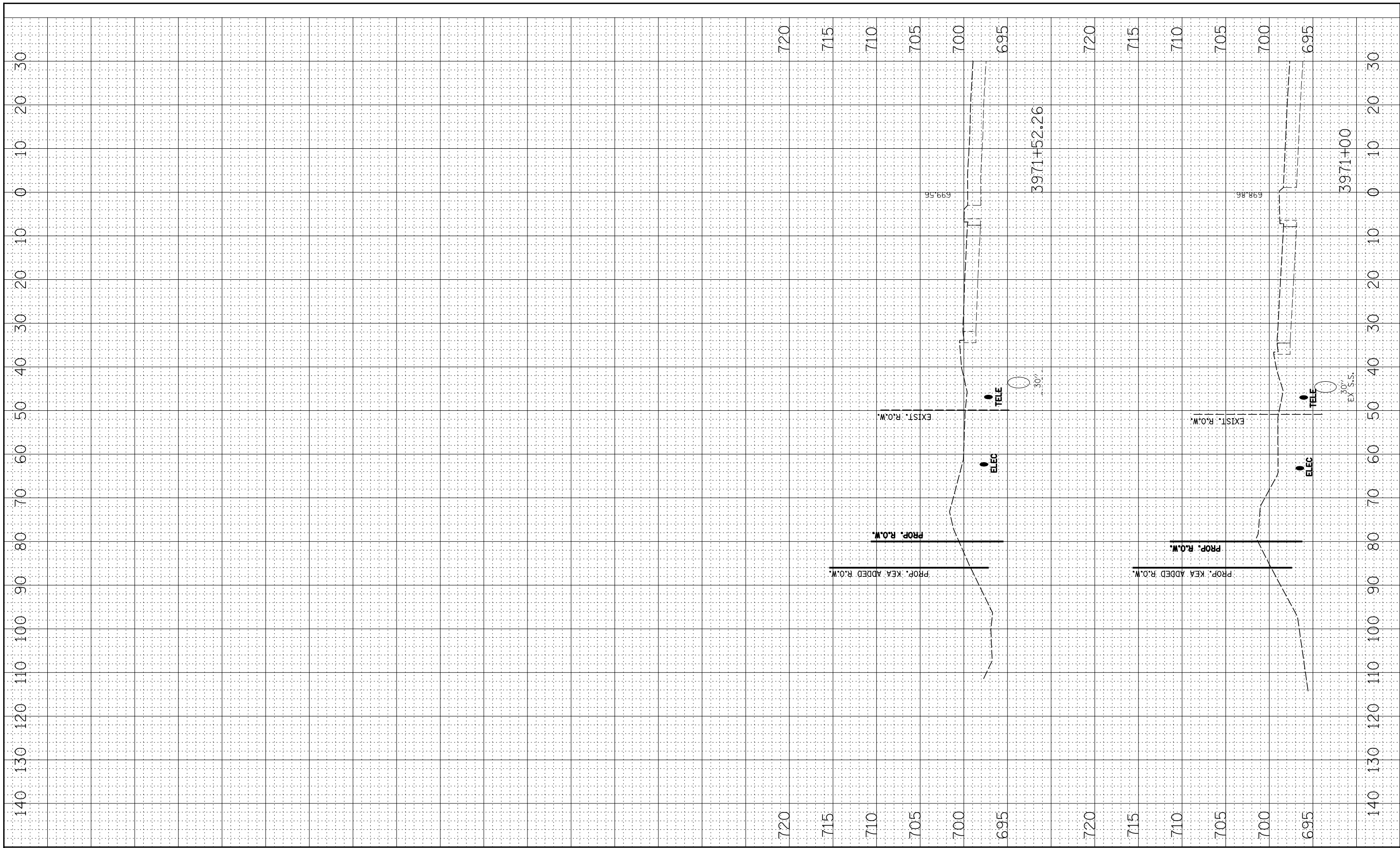
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**SN 022-W046
DRAINAGE STAGE 1 - CROSS-SECTIONS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-I	DUPAGE	234	80
CONTRACT NO. 60P42				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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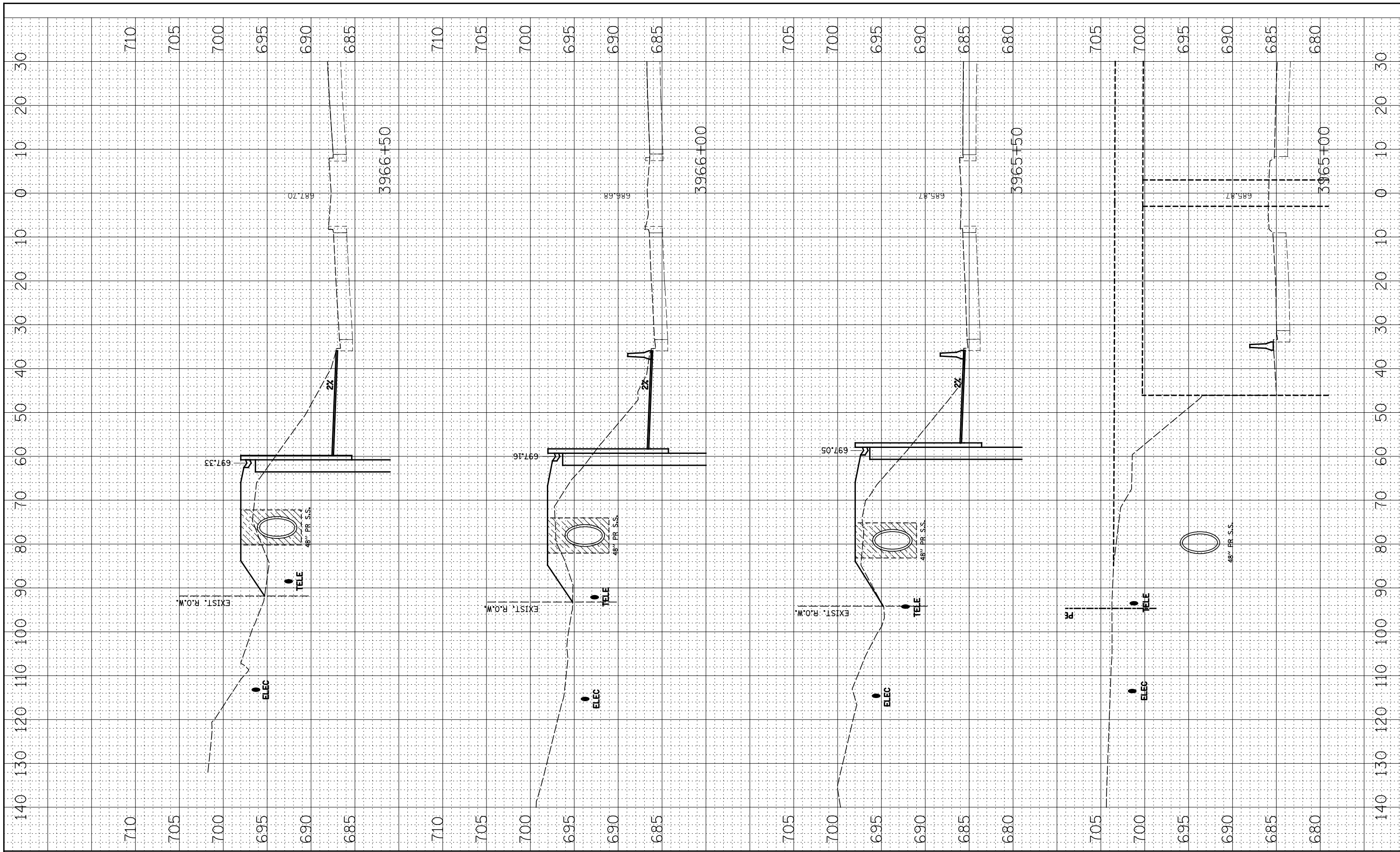
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		DATE - 05-11-12	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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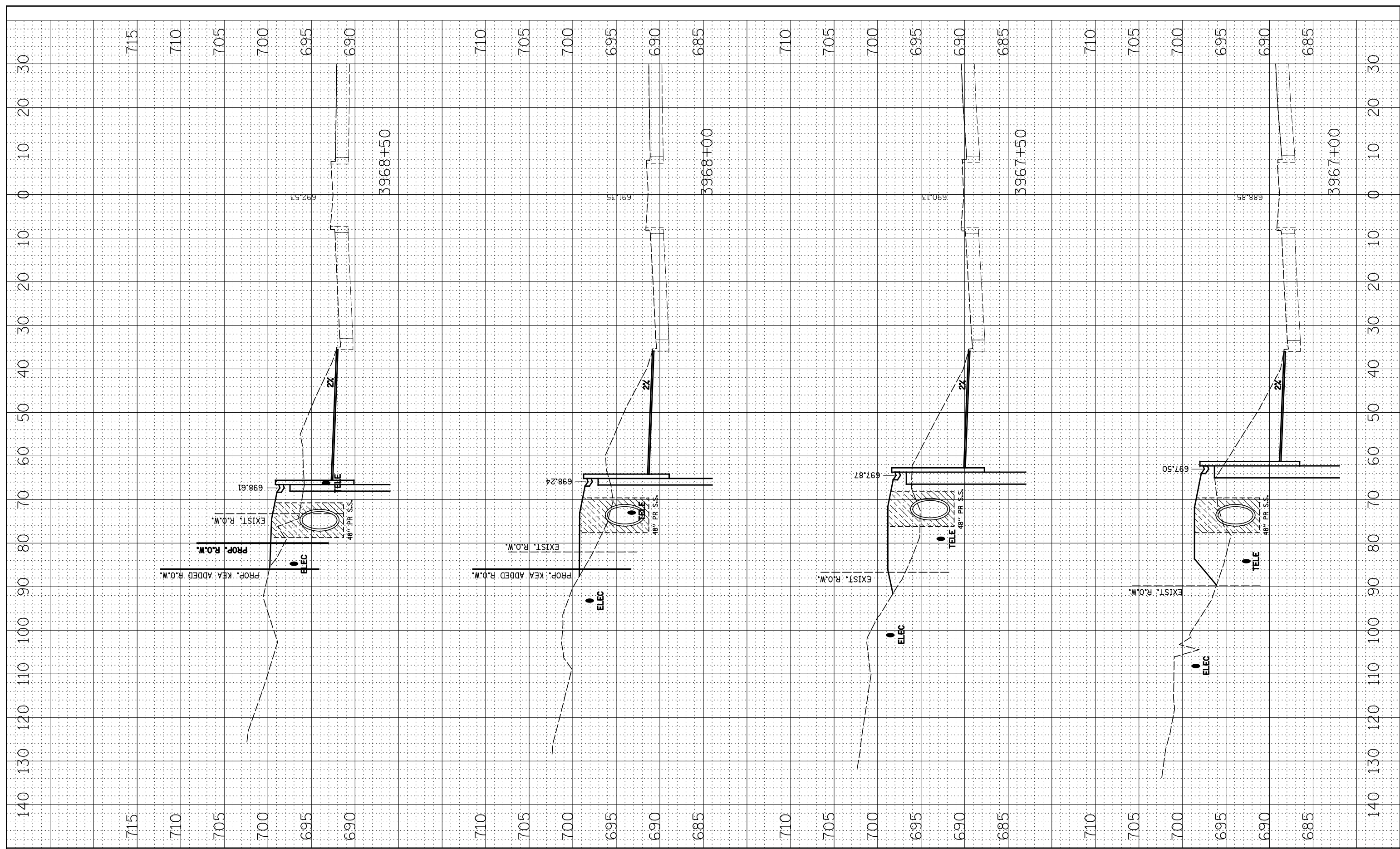
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NOTE BOOK	PLOTTED
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	AREAS
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BY	DATE
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

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



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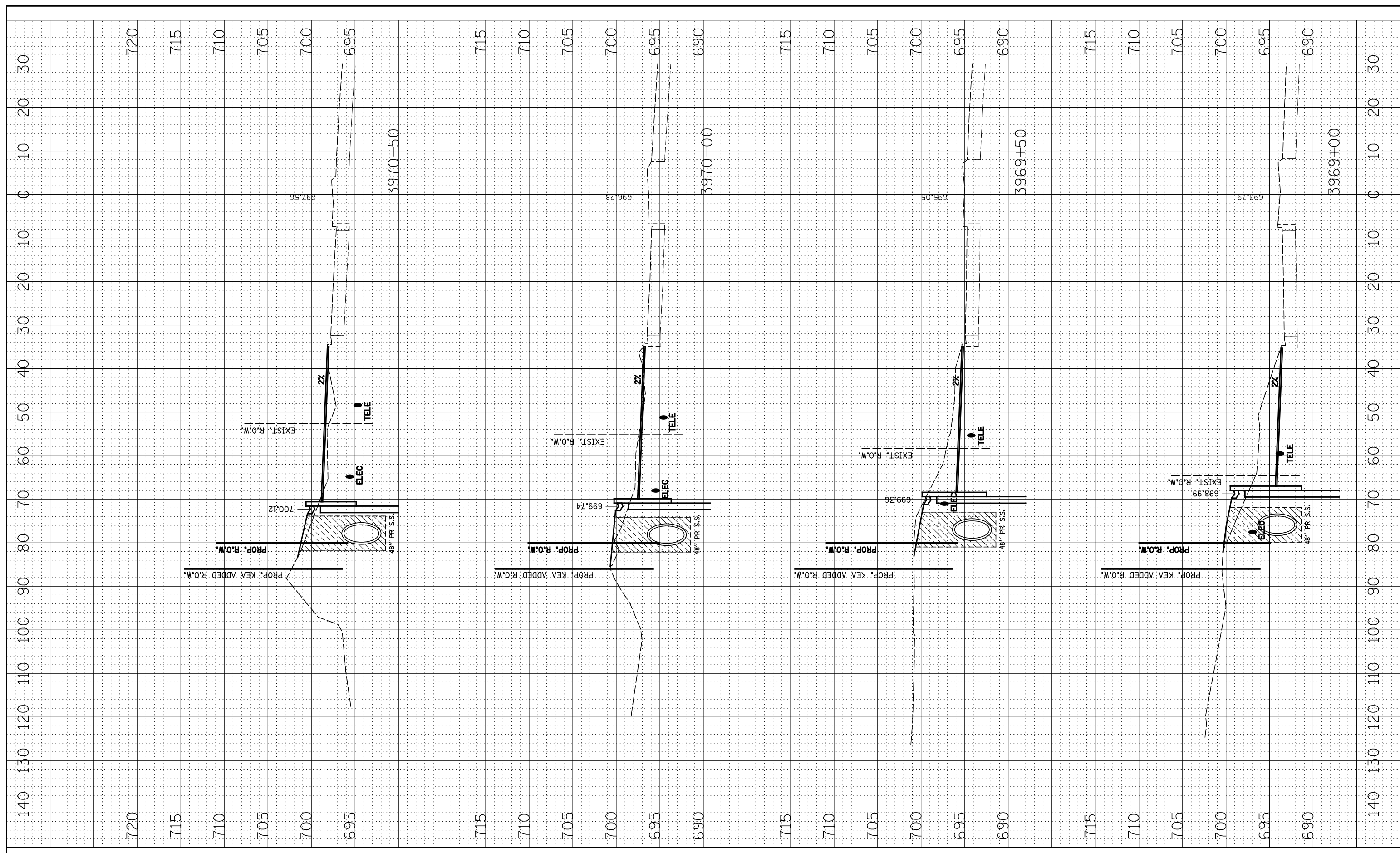
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 022-W046
DRAINAGE STAGE 2 - CROSS-SECTIONS
SCALE: SHEET NO. 2 OF 4 SHEETS STA. 3967+00 TO STA. 3968+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-I	DUPAGE	234	83
CONTRACT NO. 60P42				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



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	DATE - 05-11-12

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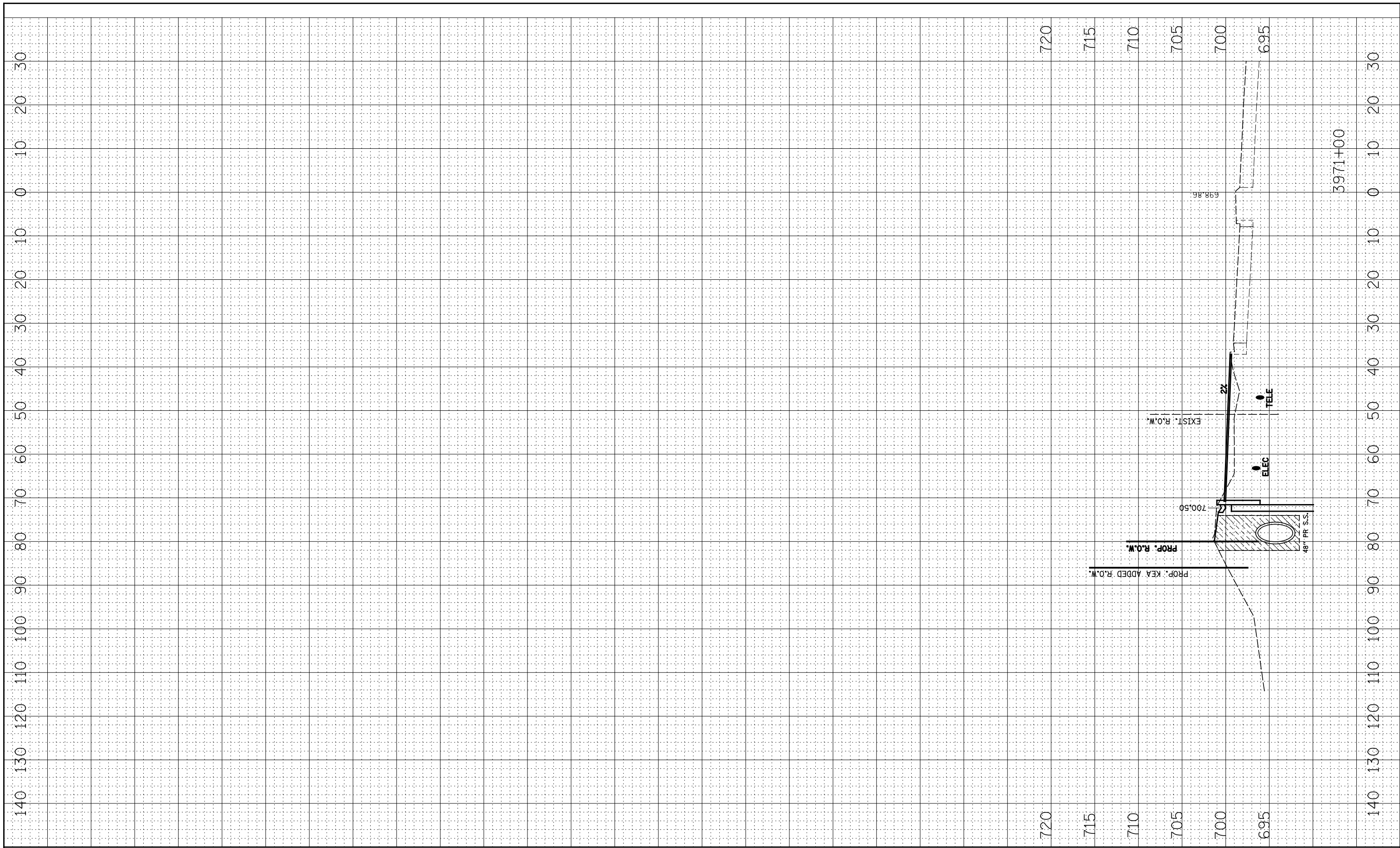
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SN 022-W046	
DRAINAGE STAGE 2 - CROSS-SECTIONS	
SCALE:	SHEET NO. 3 OF 4 SHEETS STA. 3969+00 TO STA. 3970+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-I	DUPAGE	234	84
CONTRACT NO. 60P42				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

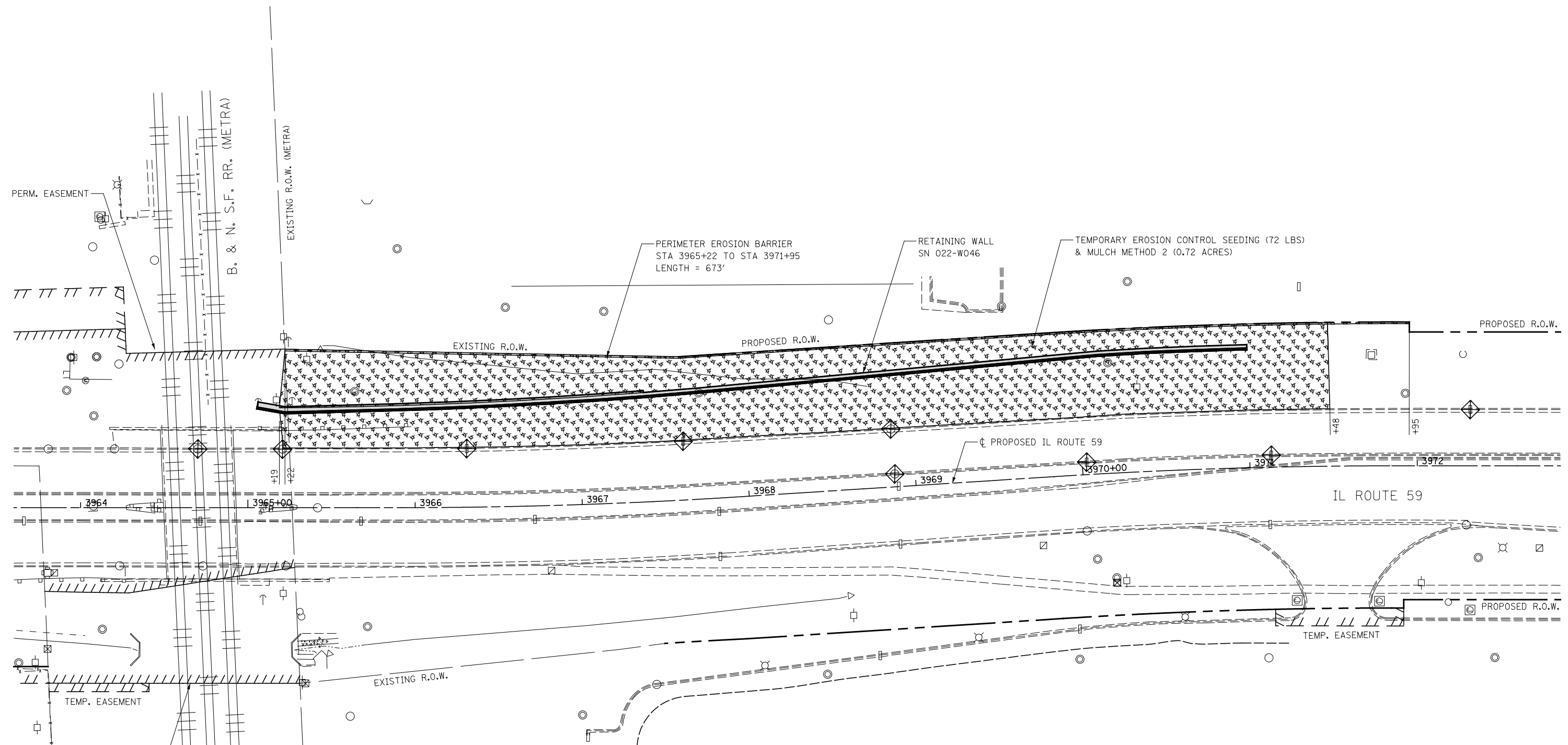


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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SN 022-W046 DRAINAGE STAGE 2 - CROSS-SECTIONS	
SCALE:	SHEET NO. 4 OF 4 SHEETS STA. 3971+00 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-I	DUPAGE	234	85
CONTRACT NO. 60P42				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

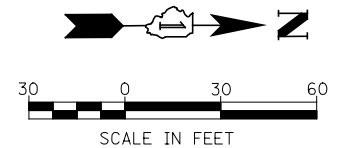


LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
MULCH METHOD 2
-  INLET FILTERS
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER

NOTES

1. SEE SUGGESTED CONSTRUCTION SEQUENCING SHEET FOR CONSTRUCTION ACTIVITY INFORMATION.



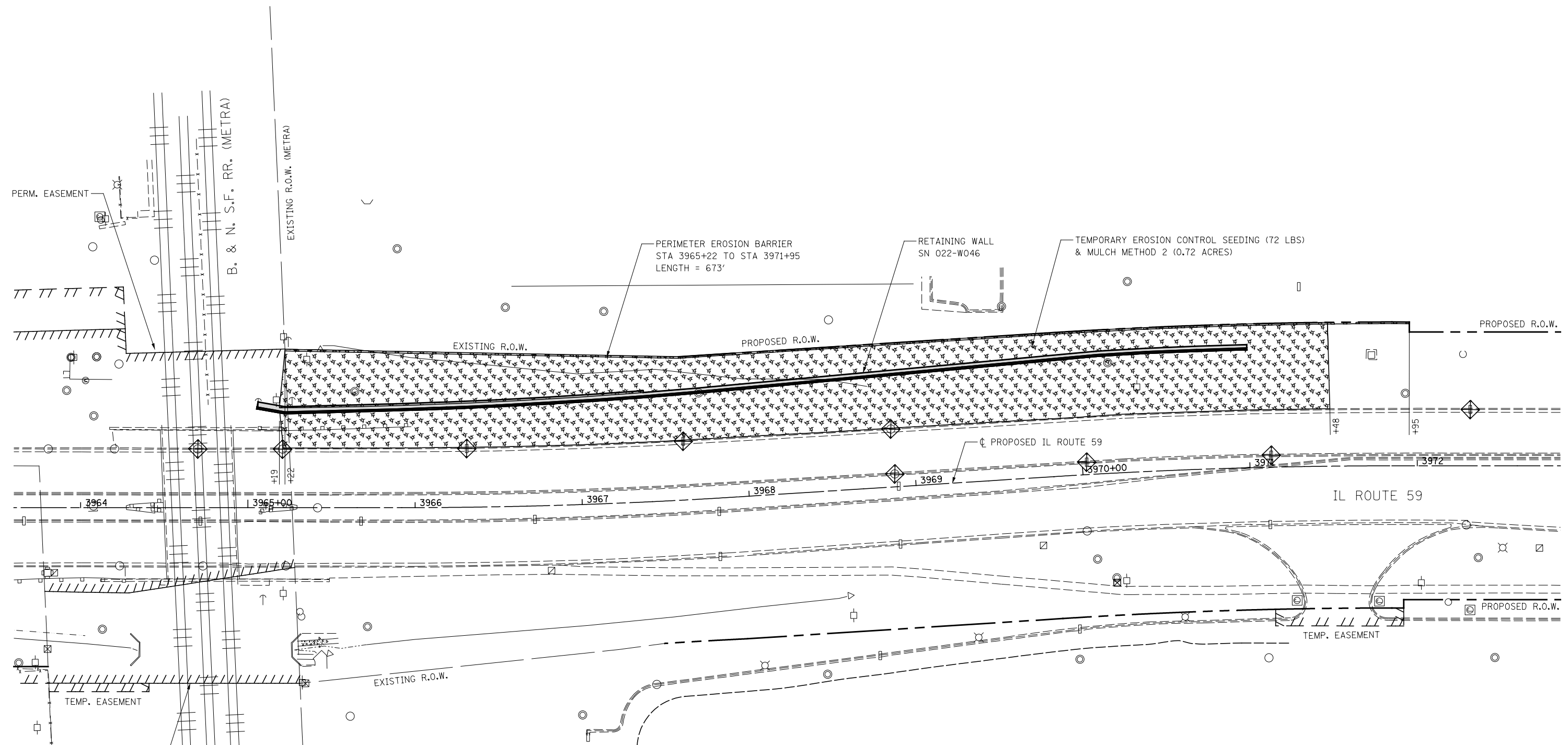
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**





SN 022-W046 - EROSION CONTROL PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-I	DUPAGE	234	87
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				

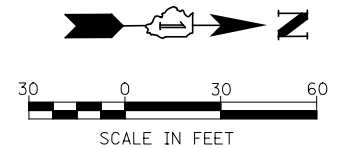


LEGEND

-  TEMPORARY EROSION CONTROL SEEDING
MULCH METHOD 2
-  INLET FILTERS
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER

NOTES

1. SEE SUGGESTED CONSTRUCTION SEQUENCING SHEET FOR CONSTRUCTION ACTIVITY INFORMATION.



FILE NAME =	USER NAME = \$USER\$	DESIGNED <i>NAV</i>	REVISED <i>06-04-12</i>
\$FILE\$		DRAWN <i>KES</i>	REVISED
	PLOT SCALE = \$SCALE\$	CHECKED <i>PJO</i>	REVISED
	PLOT DATE = \$DATE\$	DATE <i>05-11-12</i>	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SN 022-W046 - EROSION CONTROL PLAN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-I	DUPAGE	234	87
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				

Bench Mark: Square "□" cut in west face of high tension tower base, east side of IL Rte 59
Sta. 3905+18, 79' Rt., Elev. 696.82

Existing Structure: None

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications
For Highway Bridges, 17th Edition

DESIGN STRESSES

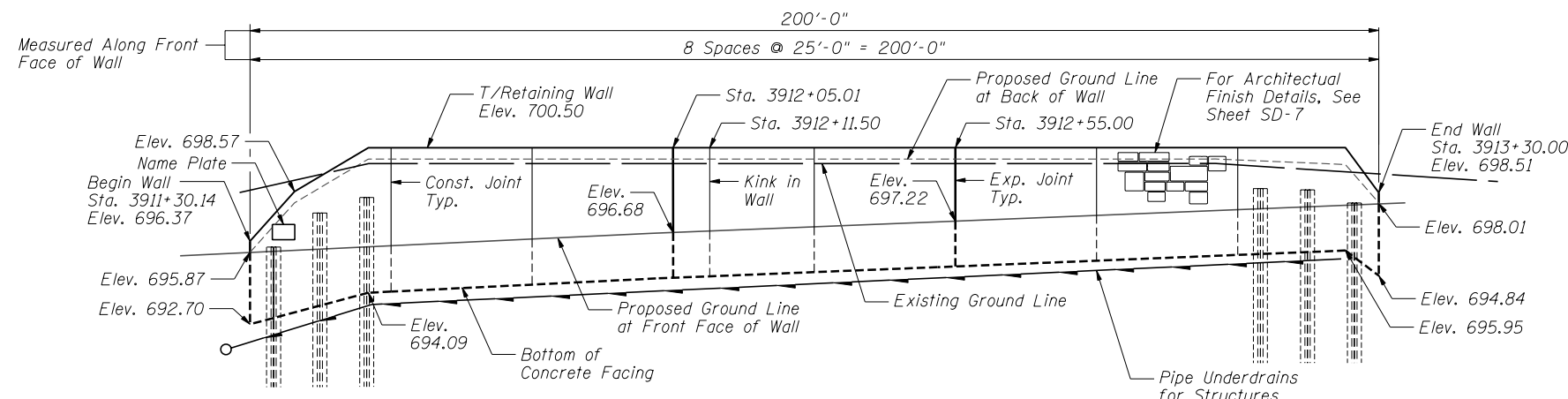
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 36,000$ psi (M270 Grade 36)

INDEX OF SHEETS

- SD-1. General Plan and Elevation
- SD-2. Soldier Pile Layout
- SD-3. Typical Section
- SD-4. Details
- SD-5. Concrete Facing
- SD-6. Concrete Facing & Details
- SD-7. Architectural Finish Details
- SD-8. Boring Logs

GENERAL NOTES

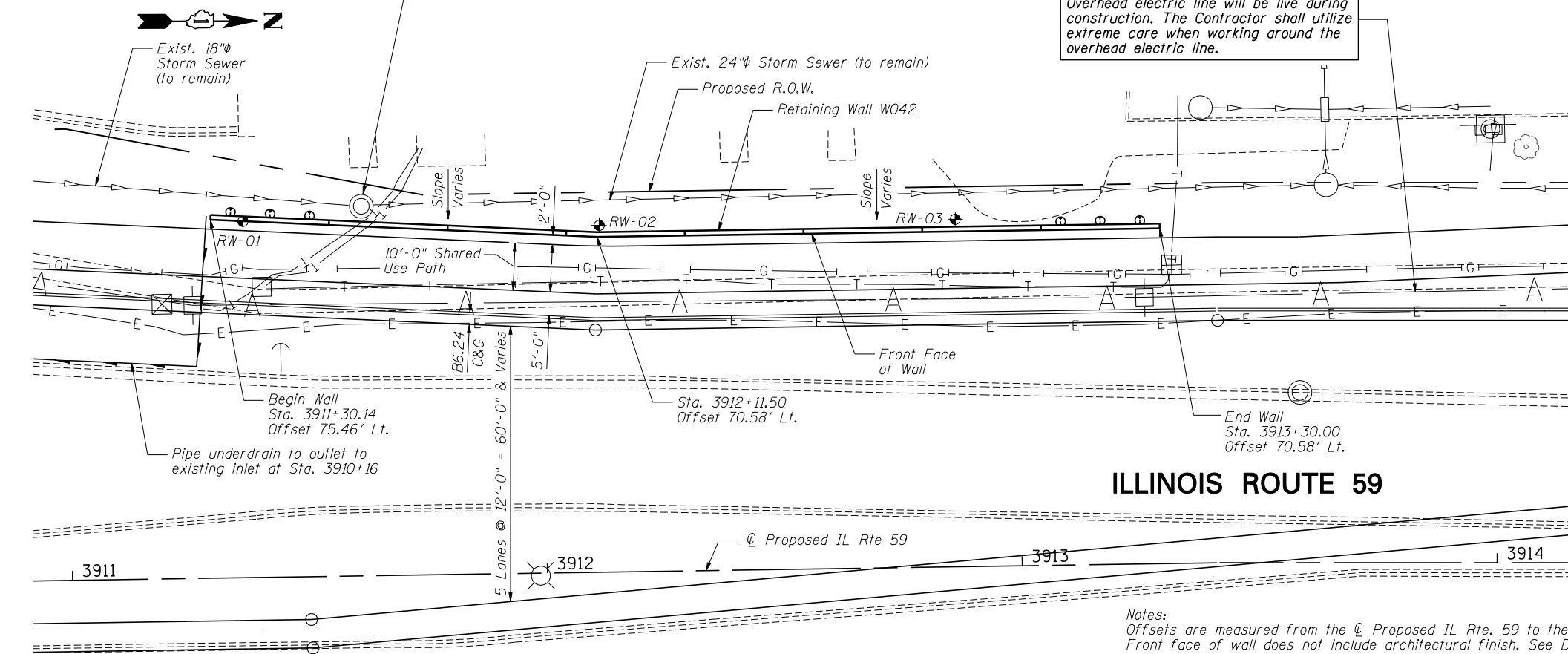
1. Reinforcement bars designated (E) shall be epoxy coated.
2. The Contractor is responsible for the design and performance of the lagging using no less than 3" nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.
3. Protective coat shall be applied to exposed surfaces of the front face of wall and top of wall.



ELEVATION

Contractor to verify location of existing drainage structure to remain and determine if the proposed retaining wall can be constructed with the existing drainage structure in its current location. In the event the wall cannot be constructed with the existing drainage structure in its current location, the Contractor shall notify the Engineer and obtain the Engineer's approval to relocate the existing drainage structure. If approved by the Engineer, payment for the relocation of the existing drainage structure shall be in accordance with Article 109.04 of the Standard Specifications.

Overhead electric line will be live during construction. The Contractor shall utilize extreme care when working around the overhead electric line.



PLAN

ILLINOIS ROUTE 59

Notes:
Offsets are measured from the \hat{C} Proposed IL Rte. 59 to the front face of the wall.
Front face of wall does not include architectural finish. See Detail on Sheet SD-3.

Soldier piles not shown for clarity.

Roadway work will be in future Contract 60R30.

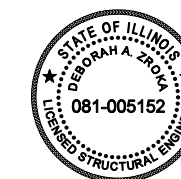
Buried utilities that cross SN 022-W042 will be relocated by others.

STATION 3911+30.14
BUILT 2011 BY
STATE OF ILLINOIS
F.A.P. RT. 338
SEC. 2011-036-1
STR. NO. 022-W042

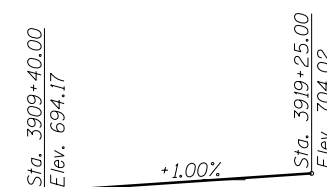
NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	226
Concrete Structures	Cu. Yd.	45.2
Protective Coat	Sq.Yd.	112
Stud Shear Connectors	Each	114
Reinforcement Bars, Epoxy Coated	Pound	5,190
Name Plates	Each	1
Geocomposite Wall Drain	Sq. Yd.	63
Untreated Timber Lagging	Sq. Ft.	743
Furnishing Soldier Piles (W Section)	Foot	480
Pipe Underdrains for Structures, 4"	Foot	343
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	1,605
Form Liner Textured Surface	Sq. Ft.	339

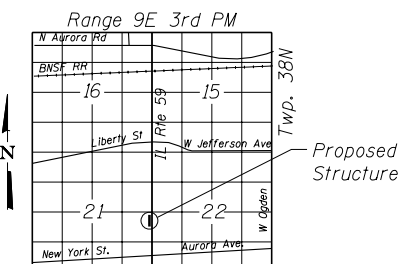


Deborah A. Zola March 7, 2012
Signature Date
November 30, 2012
Expires



PROFILE GRADE

(along \hat{C} proposed IL Route 59)



LOCATION SKETCH

GENERAL PLAN AND ELEVATION

IL RTE 59 FAP RTE 338

SECTION 2011-036-1

DUPAGE COUNTY

STA. 3911+30.14 TO STA. 3913+30.00

SN 022-W042



USER NAME = SAW	DESIGNED - LAS	REVISED -
	CHECKED - DAZ	REVISED -
PLOT SCALE = 3/8" = 1' IN.	DRAWN - SAW	REVISED -
PLOT DATE = 5/11/2012	CHECKED - LAS	REVISED -

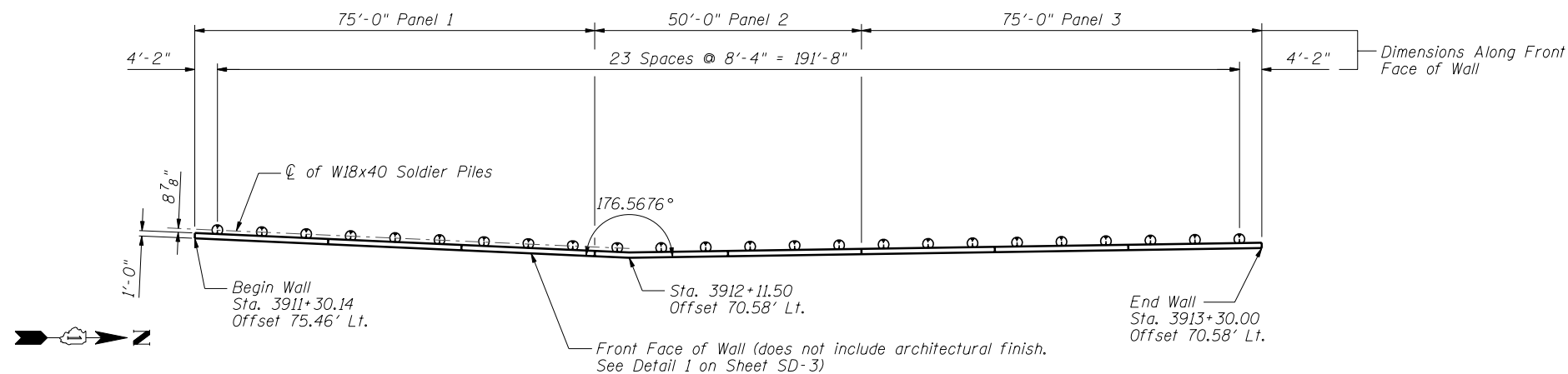
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STA. 3911+30.14 TO STA. 3913+30.00 SN 022-W042

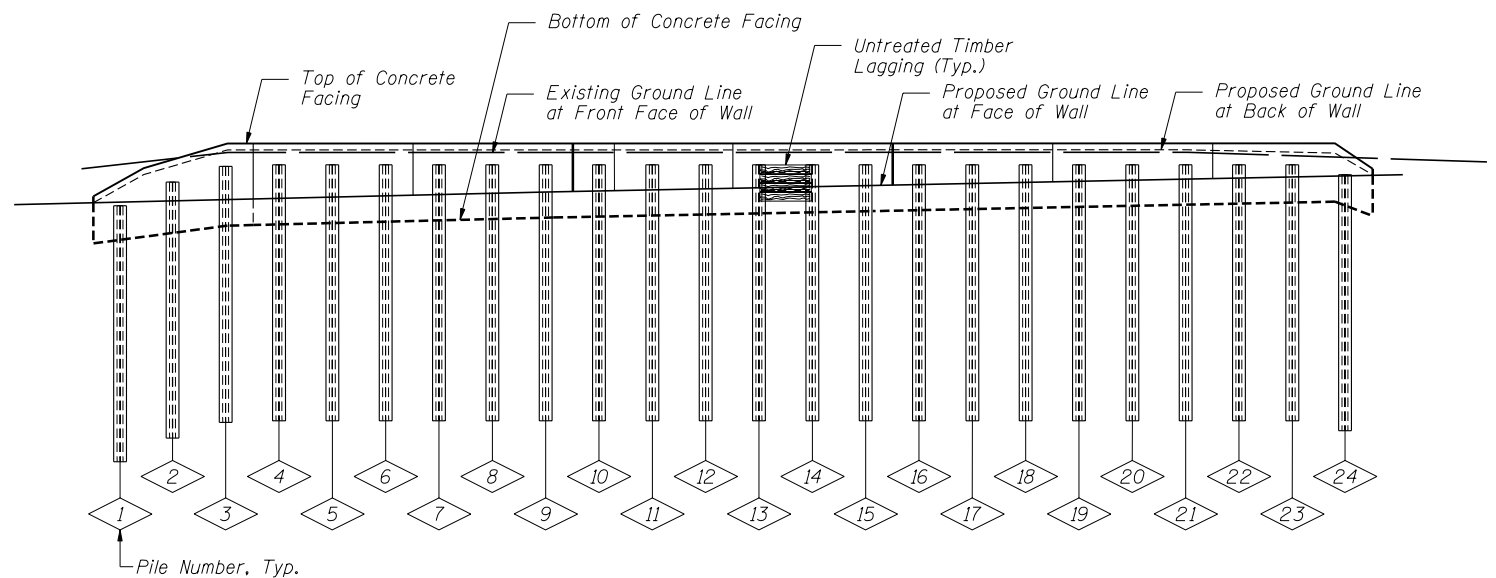
SHEET NO. SD-1 OF SD-8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	88
CONTRACT NO. 60P42				

ILLINOIS FED. AID PROJECT



PLAN



ELEVATION

PILE SUMMARY

Pile No.	Station	Offset to ϕ Pile	Pile Designation	Length	Bottom Elevation	Top Elevation	Pile No.	Station	Offset to ϕ Pile	Pile Designation	Length	Bottom Elevation	Top Elevation
1	3911+34.41	76.94	W18x40	20'-0"	675.87	695.87	13	3912+34.17	72.32	W18x40	20'-0"	678.83	698.83
2	3911+42.72	76.44	W18x40	20'-0"	677.59	697.59	14	3912+42.50	72.32	W18x40	20'-0"	678.83	698.83
3	3911+51.04	75.95	W18x40	20'-0"	678.82	698.82	15	3912+50.83	72.32	W18x40	20'-0"	678.83	698.83
4	3911+59.36	75.45	W18x40	20'-0"	678.83	698.83	16	3912+59.17	72.32	W18x40	20'-0"	678.83	698.83
5	3911+67.68	74.95	W18x40	20'-0"	678.83	698.83	17	3912+67.50	72.32	W18x40	20'-0"	678.83	698.83
6	3911+76.00	74.45	W18x40	20'-0"	678.83	698.83	18	3912+75.83	72.32	W18x40	20'-0"	678.83	698.83
7	3911+84.32	73.95	W18x40	20'-0"	678.83	698.83	19	3912+84.17	72.32	W18x40	20'-0"	678.83	698.83
8	3911+92.63	73.45	W18x40	20'-0"	678.83	698.83	20	3912+92.50	72.32	W18x40	20'-0"	678.83	698.83
9	3912+00.95	72.95	W18x40	20'-0"	678.83	698.83	21	3913+00.83	72.32	W18x40	20'-0"	678.83	698.83
10	3912+09.27	72.45	W18x40	20'-0"	678.83	698.83	22	3913+09.17	72.32	W18x40	20'-0"	678.83	698.83
11	3912+17.50	72.32	W18x40	20'-0"	678.83	698.83	23	3913+17.50	72.32	W18x40	20'-0"	678.83	698.83
12	3912+25.83	72.32	W18x40	20'-0"	678.83	698.83	24	3913+25.83	72.32	W18x40	20'-0"	678.25	698.25

BILL OF MATERIAL

Item	Unit	Quantity
Furnishing Soldier Piles (W Section)	Foot	480
Drilling and Setting Soldier Piles (In Soil)	Cu Ft	1,605
Untreated Timber Lagging	Sq Ft	743
Stud Shear Connectors	Each	114

Note: All offsets are to the left of centerline of IL Rte 59

**SOLDIER PILE LAYOUT
SN 022-W042**

FILE NAME = ...60P42-W042-002-F1.dwg



Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

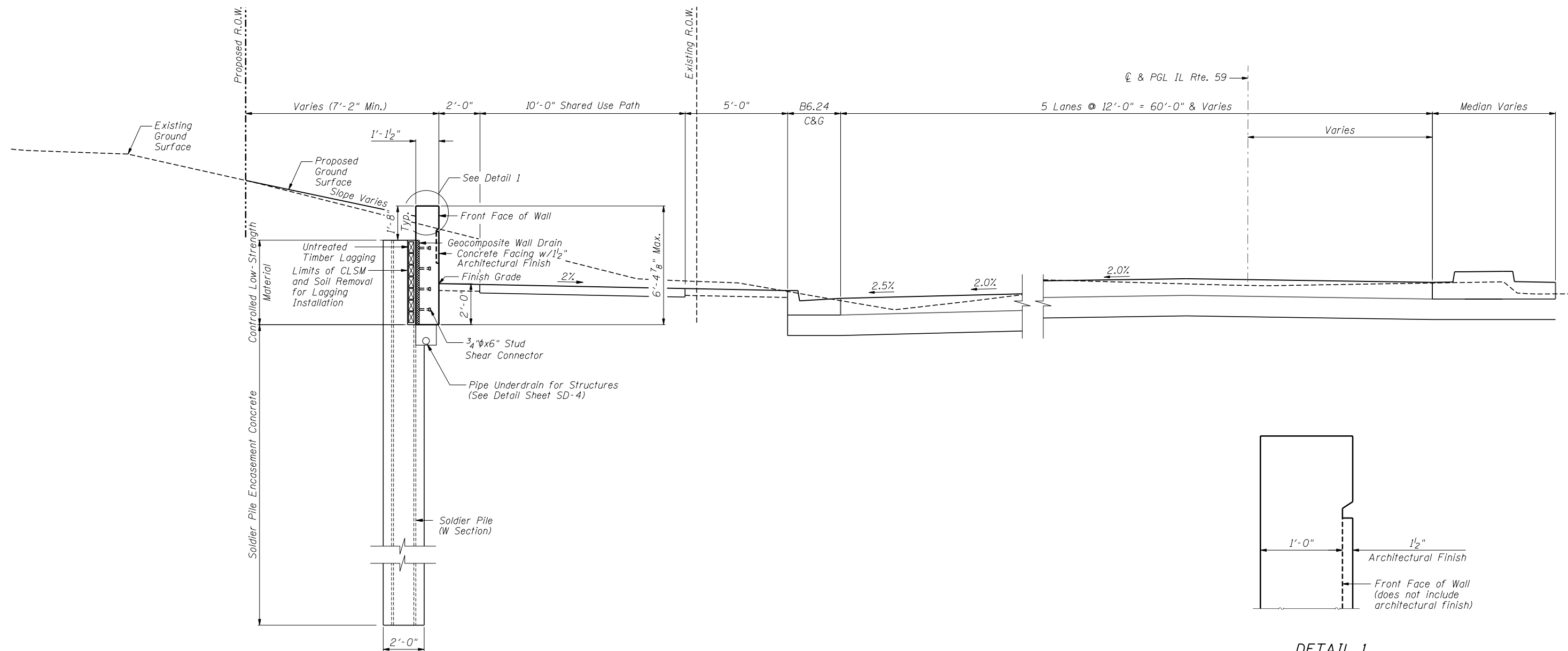
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PLOT SCALE = 3/8" = 1' IN.	CHECKED - DAZ	REVISED -
PLOT DATE = 5/9/2012	DRAWN - SAW	REVISED -
	CHECKED - LAS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

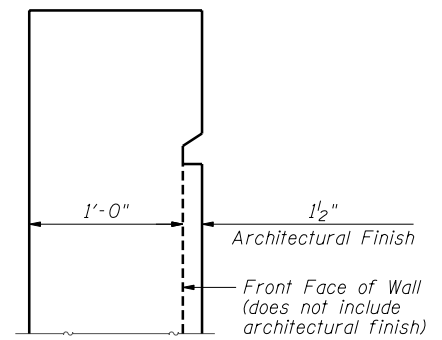
**SOLDIER PILE LAYOUT
STA. 3911 + 30.14 TO STA. 3913 + 30.00 SN 022-W042**

SHEET NO. SD-2 OF SD-8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	89
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				



TYPICAL WALL SECTION
 Sta. 3911+30.14 to Sta. 3913+30.00
 (Looking North)



DETAIL 1

TYPICAL SECTION
 SN 022-W042

FILE NAME = ...EGP42-W042-003-TypSec.dgn



Zroka Engineering, P.C.
 4216 North Hermitage
 Chicago, IL 60613

USER NAME = SAW	DESIGNED - LAS	REVISED -
	CHECKED - DAZ	REVISED -
PLOT SCALE = 5.00' / IN.	DRAWN - SAW	REVISED -
PLOT DATE = 5/10/2012	CHECKED - LAS	REVISED -

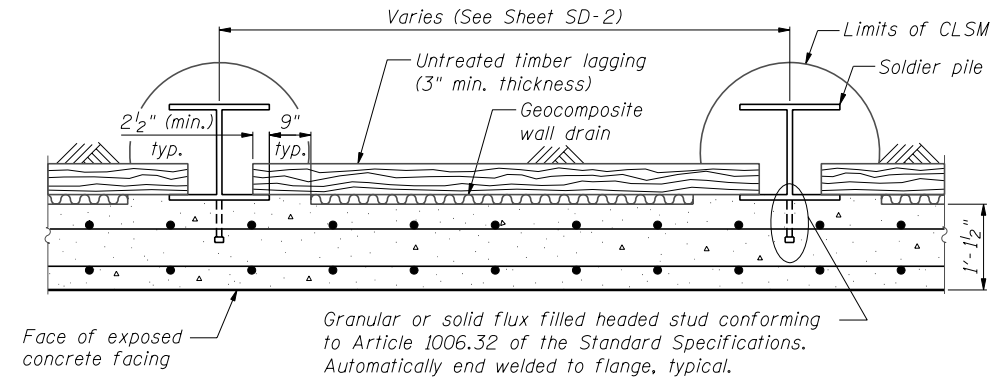
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION
STA. 3911 + 30.14 TO STA. 3913 + 30.00 SN 022-W042

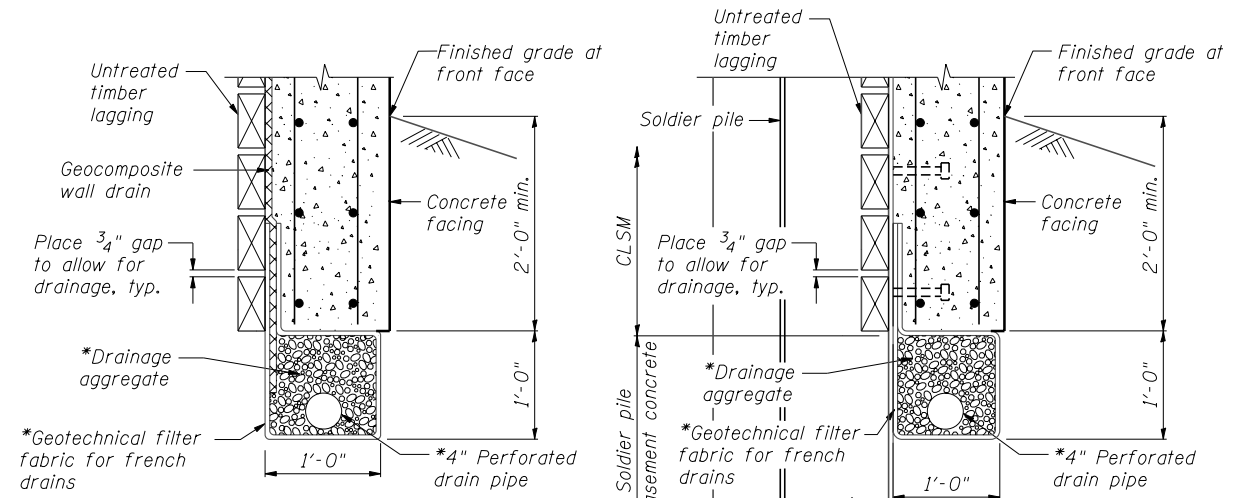
SHEET NO. SD-3 OF SD-8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	90
CONTRACT NO. 60P42				

ILLINOIS FED. AID PROJECT



SECTION THRU DRILLED SOLDIER PILE WALL

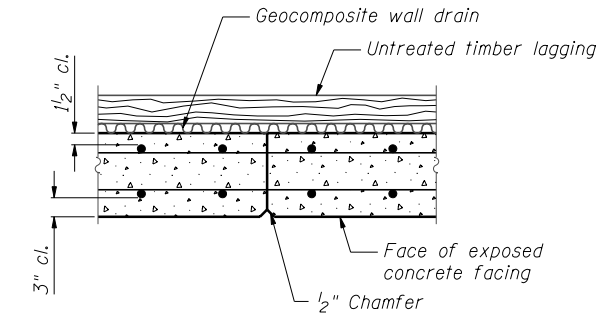


BETWEEN SOLDIER PILES

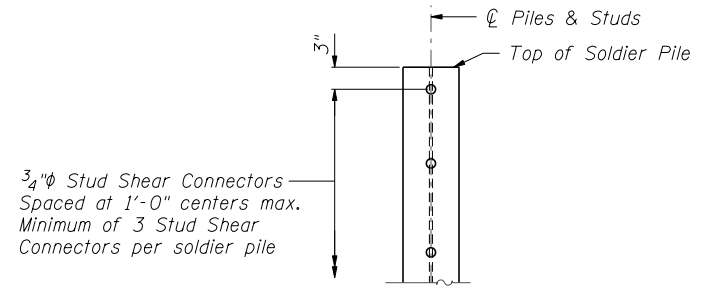
AT SOLDIER PILES

PIPE UNDERDRAIN DETAIL

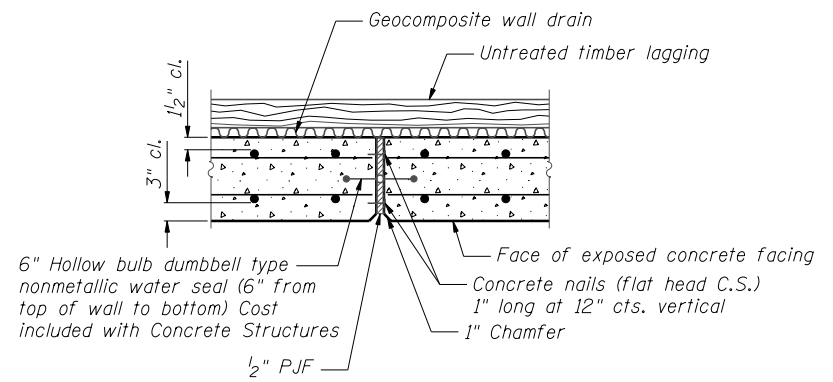
*Included in the cost of "Pipe Underdrains for Structures, 4"



CONSTRUCTION JOINT DETAIL



DETAIL OF SHEAR STUD PLACEMENT



EXPANSION JOINT DETAIL

**DETAILS
SN 022-W042**

FILE NAME = ...EGP42-W042-004-Detail.scdgn



USER NAME = SAW	DESIGNED - LAS	REVISED -
	CHECKED - DAZ	REVISED -
PLOT SCALE = 5.00' / IN.	DRAWN - SAW	REVISED -
PLOT DATE = 5/9/2012	CHECKED - LAS	REVISED -

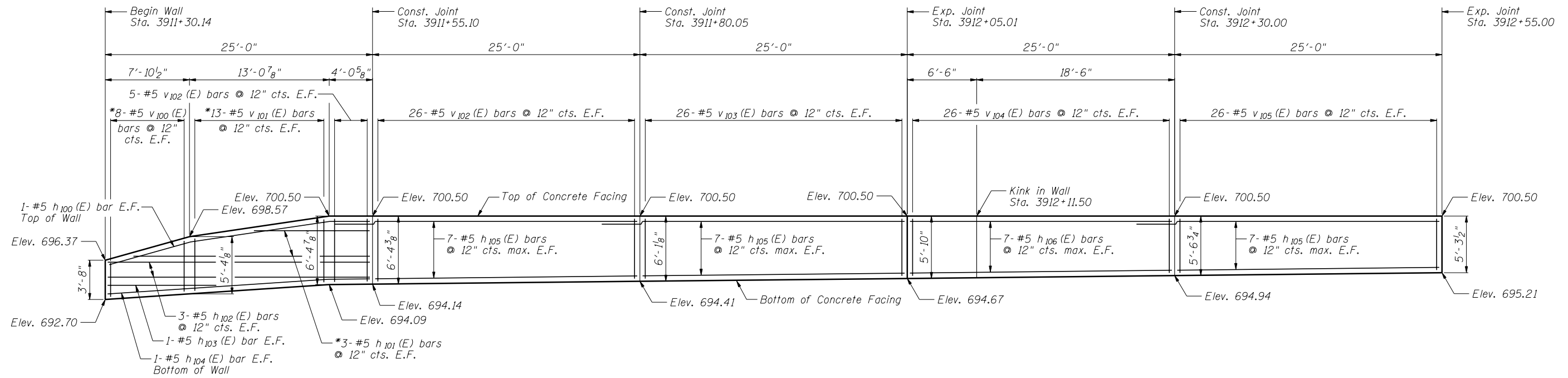
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS
STA. 3911 + 30.14 TO STA. 3913 + 30.00 SN 022-W042**

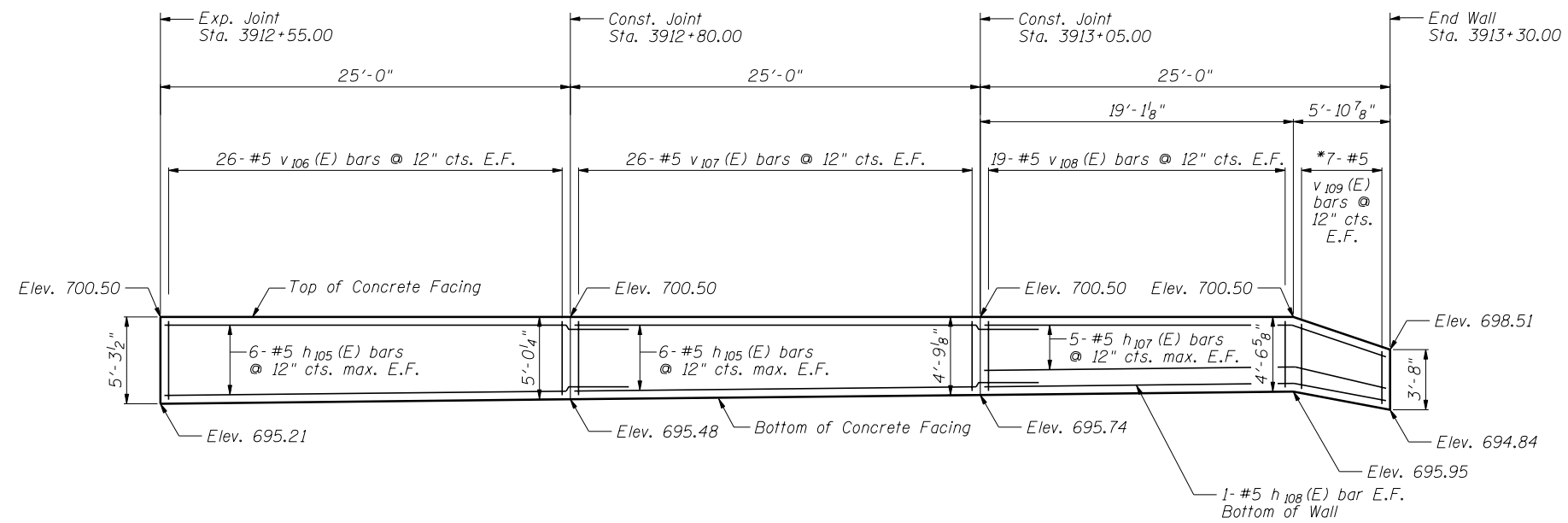
SHEET NO. SD-4 OF SD-8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	91
CONTRACT NO. 60P42				

ILLINOIS FED. AID PROJECT



ELEVATION



ELEVATION

Notes:

Minimum lap for #5 bar is 3'-8".

Space reinforcement in wall to miss shear studs.

* signifies cut bar. Order per length on Bill of Material. Cut as shown in Cutting Diagram and use half of bars in each face.

See Sheet SD-6 for Concrete Facing Details and Bill of Material.

**CONCRETE FACING
SN 022-W042**



USER NAME = SAW	DESIGNED - LAS	REVISED -
	CHECKED - DAZ	REVISED -
PLOT SCALE = 10.0000 "/ IN.	DRAWN - SAW	REVISED -
PLOT DATE = 5/10/2012	CHECKED - LAS	REVISED -

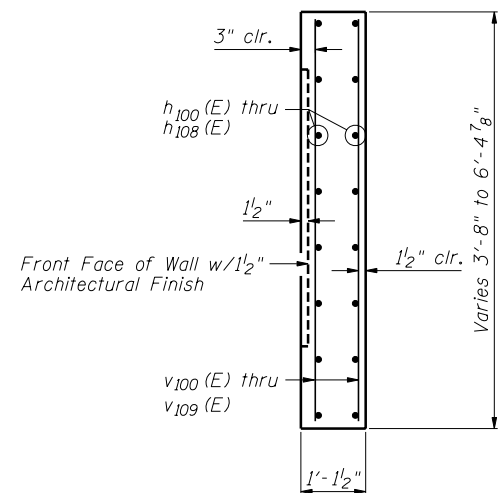
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CONCRETE FACING
STA. 3911 + 30.14 TO STA. 3913 + 30.00 SN 022-W042**

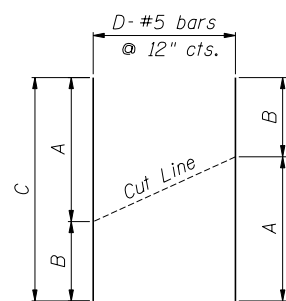
SHEET NO. SD-5 OF SD-8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1		234	92
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				

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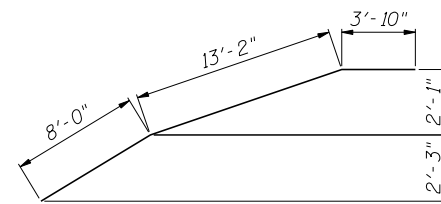


SECTION THRU
CONCRETE FACING

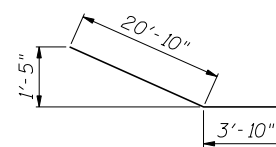


CUTTING DIAGRAM

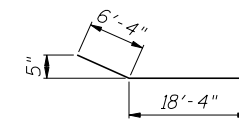
Bar	A	B	C	D
h ₁₀₁ (E)	11'-7"	21'-2"	32'-9"	3
v ₁₀₀ (E)	3'-4"	4'-10"	8'-2"	8
v ₁₀₁ (E)	5'-0"	6'-0"	11'-0"	13
v ₁₀₉ (E)	4'-3"	3'-4"	7'-7"	7



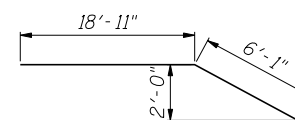
BAR h₁₀₀ (E)



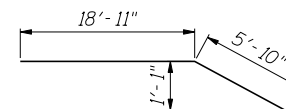
BAR h₁₀₄ (E)



BAR h₁₀₆ (E)



BAR h₁₀₇ (E)



BAR h₁₀₈ (E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₁₀₀ (E)	2	#5	25'-0"	
h ₁₀₁ (E)	3	#5	32'-9"	—
h ₁₀₂ (E)	6	#5	24'-8"	—
h ₁₀₃ (E)	2	#5	10'-2"	—
h ₁₀₄ (E)	2	#5	24'-8"	
h ₁₀₅ (E)	66	#5	28'-8"	—
h ₁₀₆ (E)	14	#5	24'-8"	
h ₁₀₇ (E)	10	#5	25'-0"	
h ₁₀₈ (E)	2	#5	24'-9"	
v ₁₀₀ (E)	8	#5	8'-2"	—
v ₁₀₁ (E)	13	#5	11'-0"	—
v ₁₀₂ (E)	62	#5	5'-9"	—
v ₁₀₃ (E)	52	#5	5'-6"	—
v ₁₀₄ (E)	52	#5	5'-3"	—
v ₁₀₅ (E)	52	#5	5'-0"	—
v ₁₀₆ (E)	52	#5	4'-8"	—
v ₁₀₇ (E)	52	#5	4'-5"	—
v ₁₀₈ (E)	38	#5	4'-3"	—
v ₁₀₉ (E)	7	#5	7'-7"	—
Item		Unit	Quantity	
Concrete Structures		Cu. Yd.	45.2	
Reinforcement Bars, Epoxy Coated		Pound	5,190	
Pipe Underdrains for Structures, 4"		Foot	343	
Geocomposite Wall Drain		Sq. Yd.	63	

CONCRETE FACING & DETAILS
SN 022-W042

FILE NAME = ...EGP42-W042-006-ConcreteFacing2.dgn



Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

USER NAME = SAW
PLOT SCALE = 10.0000 "/ IN.
PLOT DATE = 5/10/2012

DESIGNED - LAS
CHECKED - DAZ
DRAWN - SAW
CHECKED - LAS

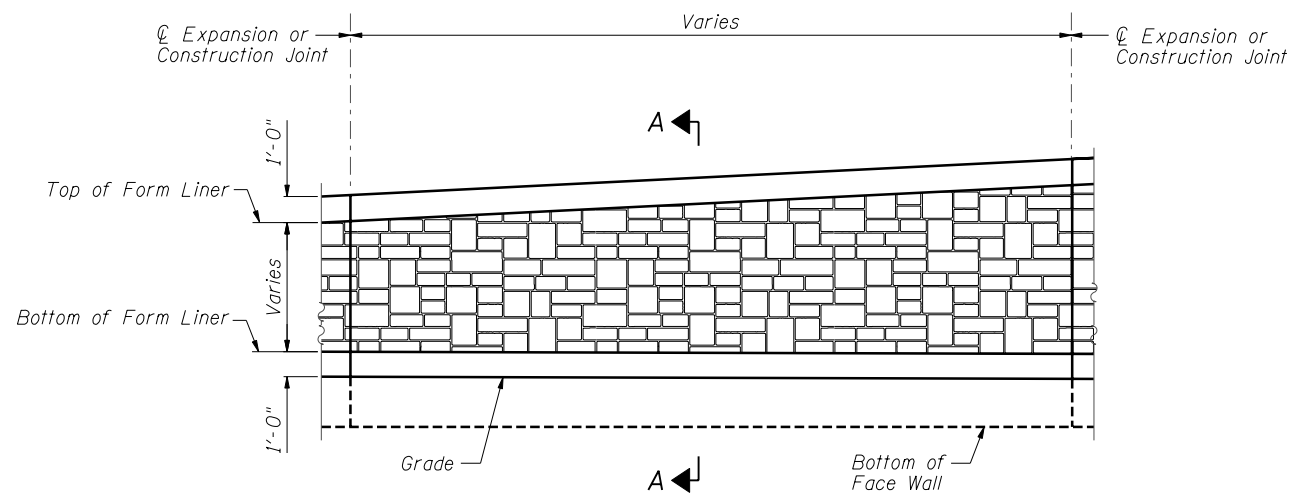
REVISED -
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

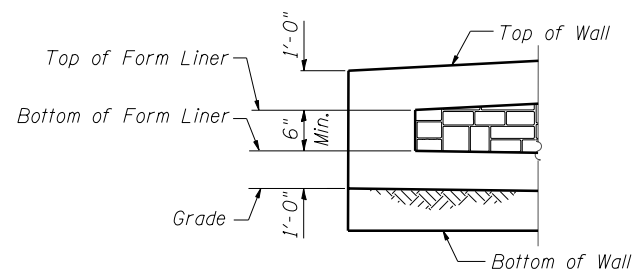
CONCRETE FACING & DETAILS
STA. 3911 + 30.14 TO STA. 3913 + 30.00 SN 022-W042

SHEET NO. SD-6 OF SD-8 SHEETS

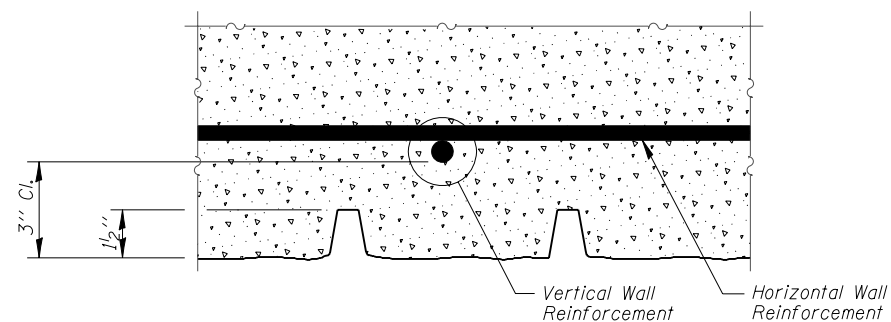
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	93
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				



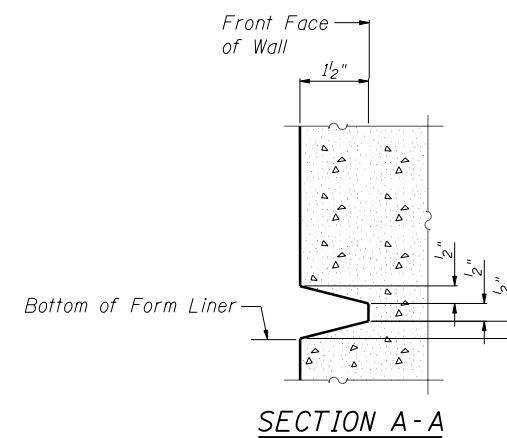
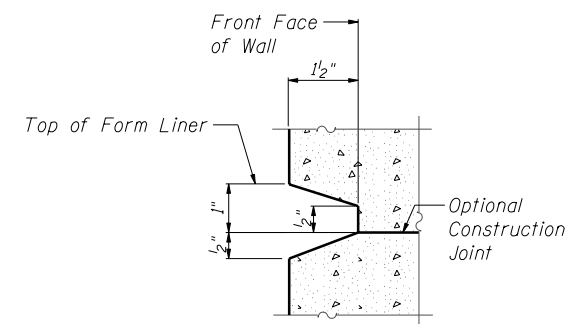
ELEVATION - FORM LINER



END FORM LINER FINISH



PLAN - FORM LINER



SECTION A-A

FORM LINER ELEVATION TABLE

Station	Form Liner Top Elevation	Form Liner Bottom Elevation
3911+30.14	None	None
3911+38.01	697.57	696.96
3911+51.06	699.50	697.09
3911+55.10	699.50	697.14
3911+80.05	699.50	697.41
3912+05.01	699.50	697.67
3912+30.01	699.50	697.94
3912+55.00	699.50	698.21
3912+80.00	699.50	698.48
3913+05.00	699.50	698.74
3913+24.09	699.50	698.95
3913+30.00	None	None

**ARCHITECTURAL FINISH DETAILS
SN 022-W042**



Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

USER NAME = SAW	DESIGNED - LAS	REVISED -
	CHECKED - DAZ	REVISED -
PLOT SCALE = 0.1667' / IN.	DRAWN - SAW	REVISED -
PLOT DATE = 5/10/2012	CHECKED - LAS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARCHITECTURAL FINISH DETAILS
STA. 3911+30.14 TO STA. 3913+30.00 SN 022-W042**

SHEET NO. SD-7 OF SD-8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	94
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				

FILE NAME = ...60P42-W042-007-ArchF.msh.dgn

BORING LOG RW-01

BORING LOG RW-02

BORING LOG RW-03

Geo Services, Inc.		SOIL BORING LOG		PAGE 1 of 1	
Geotechnical, Environmental & Civil Engineering 805 Amber Court, Suite 204 Naperville, Illinois 60565 (630) 355-3838		DATE 3/17/2011		LOGGED BY RJ	
ROUTE II, Route 59 (FAP 338)		DESCRIPTION Illinois Route 59-Aurora Avenue/New York Street To Ferry Road		GSI JOB No. 09173	
SECTION (112 & 113) WRS-5		LOCATION SEC. 3, 9-10, 15-16, 21-22 TWP. 38N, RNG. 9E, Naperville Township		COUNTY DuPage	
DRILLING METHOD Hollow Stem Auger		HAMMER TYPE CME Automatic			
STRUCT. NO. 022-W042	Station: 3911+30 to 3913+30	Surface Water Elev. n/a	Stream Bed Elev. n/a	DEPT	BLWS
BORING NO. RW-01	Station: 3911+37 IL RTE-59	Groundwater Elevation:	First Encounter Dry	UCS	MOIST
Offset: 75.0' Left	Ground Surface Elev. 698.0	Upon Completion Dry	After Hrs. Dry	Qu	(tsf) (%)
				(ft) (/ft)	
	AS - 24				
	2 108				
	2				
	5 4.25B 18				
CLAY-dark brown & black-stiff to hard (A-6) Fill					
	2				
	2				
Drillers Observation: Buried topsoil from -5.0' to -6.0'.	-5 2 4.5P 22				
	2				
	2				
	4 1.0P 22				
	690.0				
	2				
	2				
CLAY LOAM-brown-very stiff (A-6)	-10 4 2.25B 15				
	9				
	22				
	685.5 50/1 - 16				
GRAVEL-dense to very dense (A-1)					
	12				
	29				
	683.0 -15 28 NP 1				
	4				
	6 114				
	9 2.75B 17				
CLAY-gray-very stiff (A-6)					
	4				
	7 110				
End Of Boring @ -20.0' Hollow Stem Augers CME Automatic Hammer	678.0 -20 7 2.9B 19				

Geo Services, Inc.		SOIL BORING LOG		PAGE 1 of 1	
Geotechnical, Environmental & Civil Engineering 805 Amber Court, Suite 204 Naperville, Illinois 60565 (630) 355-3838		DATE 3/17/2011		LOGGED BY RJ	
ROUTE II, Route 59 (FAP 338)		DESCRIPTION Illinois Route 59-Aurora Avenue/New York Street To Ferry Road		GSI JOB No. 09173	
SECTION (112 & 113) WRS-5		LOCATION SEC. 3, 9-10, 15-16, 21-22 TWP. 38N, RNG. 9E, Naperville Township		COUNTY DuPage	
DRILLING METHOD Hollow Stem Auger		HAMMER TYPE CME Automatic			
STRUCT. NO. 022-W042	Station: 3911+30 to 3913+30	Surface Water Elev. n/a	Stream Bed Elev. n/a	DEPT	BLWS
BORING NO. RW-02	Station: 3912+12 IL RTE-59	Groundwater Elevation:	First Encounter 676.6	UCS	MOIST
Offset: 73.0' Left	Ground Surface Elev. 700.1	Upon Completion 684.1	After Hrs. Dry	Qu	(tsf) (%)
				(ft) (/ft)	
	AS - 20				
	3 99				
	3				
	3 1.9B 22				
CLAY LOAM-dark brown spotted black-stiff (A-6) Fill					
	2				
	2				
	2				
	3 1.25P 18				
	694.6				
	3				
	4 86				
	6 2.6B 25				
	692.1				
SILTY CLAY-dark brown-stiff (A-6) Wet					
	3				
	4				
	6 113				
	-10 5 3.8B 16				
	4				
	8 117				
	11 6.25B 15				
CLAY LOAM-brown & gray-very stiff to hard (A-6)					
	5				
	9 6.45P 118				
	-15 13 14.1B 14				
	684.1				
	3				
	6				
	11 3.25P 10				
	682.1				
CLAY LOAM-gray-very stiff (A-6)					
	4				
	6				
	7 111				
CLAY-gray-very stiff (A-6)					
	4				
	6				
	7 2.3B 19				
	-20 7				

Geo Services, Inc.		SOIL BORING LOG		PAGE 1 of 1	
Geotechnical, Environmental & Civil Engineering 805 Amber Court, Suite 204 Naperville, Illinois 60565 (630) 355-3838		DATE 3/17/2011		LOGGED BY RJ	
ROUTE II, Route 59 (FAP 338)		DESCRIPTION Illinois Route 59-Aurora Avenue/New York Street To Ferry Road		GSI JOB No. 09173	
SECTION (112 & 113) WRS-5		LOCATION SEC. 3, 9-10, 15-16, 21-22 TWP. 38N, RNG. 9E, Naperville Township		COUNTY DuPage	
DRILLING METHOD Hollow Stem Auger		HAMMER TYPE CME Automatic			
STRUCT. NO. 022-W042	Station: 3911+30 to 3913+30	Surface Water Elev. n/a	Stream Bed Elev. n/a	DEPT	BLWS
BORING NO. RW-03	Station: 3912+87 IL RTE-59	Groundwater Elevation:	First Encounter 680.7	UCS	MOIST
Offset: 73.5' Left	Ground Surface Elev. 700.2	Upon Completion 680.7	After Hrs. Dry	Qu	(tsf) (%)
				(ft) (/ft)	
	AS - 31				
	2				
	3				
	5 - 28				
TOPSOIL-black					
	2				
	696.2				
	2				
	2				
	5 2.2B 24				
	-25				
	2				
	2				
	4 1.0P 22				
	2				
	3 108				
	4 1.5B 22				
CLAY-brown & gray-stiff to hard (A-6)					
	2				
	2				
	5				
	-10 7 4.9B 16				
	688.7				
	5				
	10				
	12 3.2B 16				
	3				
	4 111				
	16				
	-15 9 3.5B 19				
	3				
	7 116				
	10 4.3B 16				
	3				
	7 111				
CLAY-gray-very stiff to hard (A-6)					
	3				
	7				
	10 4.3B 16				
	680.7				
	7				
	10 NP 22				
	-40				

FILE NAME = ...G0P42-W042-088-BoringsLog.dgn



Zroka Engineering, P.C.
4216 North Hermitage
Chicago, IL 60613

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PLOT DATE = 5/9/2012	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STA. 3911 + 30.14 TO STA. 3913 + 30.00 SN 022-W042

F.A.P. RTE. 338	SECTION 2011-036-1	COUNTY DUPAGE	TOTAL SHEETS 234	SHEET NO. 95
CONTRACT NO. 60P42				

BORING LOGS
SN 022-W042

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PLOT DATE = 5/9/2012	CHECKED - LAS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	96
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				

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PLOT DATE = 5/9/2012	CHECKED - LAS	REVISED -

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DEPARTMENT OF TRANSPORTATION**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	97
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				

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PLOT DATE = 5/9/2012	CHECKED - LAS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	98
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	99
CONTRACT NO. 60P42				
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PLOT DATE = 5/9/2012	CHECKED - LAS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	2011-036-1	DUPAGE	234	100
CONTRACT NO. 60P42				
ILLINOIS FED. AID PROJECT				