

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	1
		ILLINOIS	CONTRACT NO. 61A31	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY

TRAFFIC DATA

DESIGN DESIGNATION: PRINCIPAL ARTERIAL

ADT:

IL RTE 7, 7TH STREET TO  
THORNTON STREET = 14,900 (2012)

IL RTE 7, THORNTON STREET TO  
ADELMANN ROAD = 22,400 (2012)

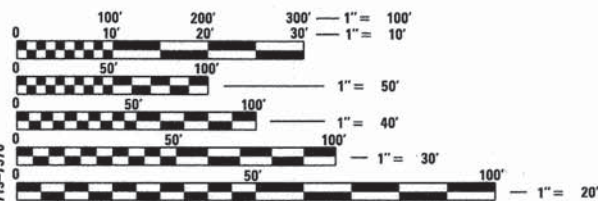
SPEED LIMIT:

IL ROUTE 7 = 35 MPH (POSTED)

FAP ROUTE 351 (IL ROUTE 7)  
7TH STREET TO ADELMANN ROAD  
SIDEWALK CONSTRUCTION  
SECTION: 10-00074-00-BR  
PROJECT: TE-00D1(870)  
CITY OF LOCKPORT  
WILL COUNTY  
C-91-494-11

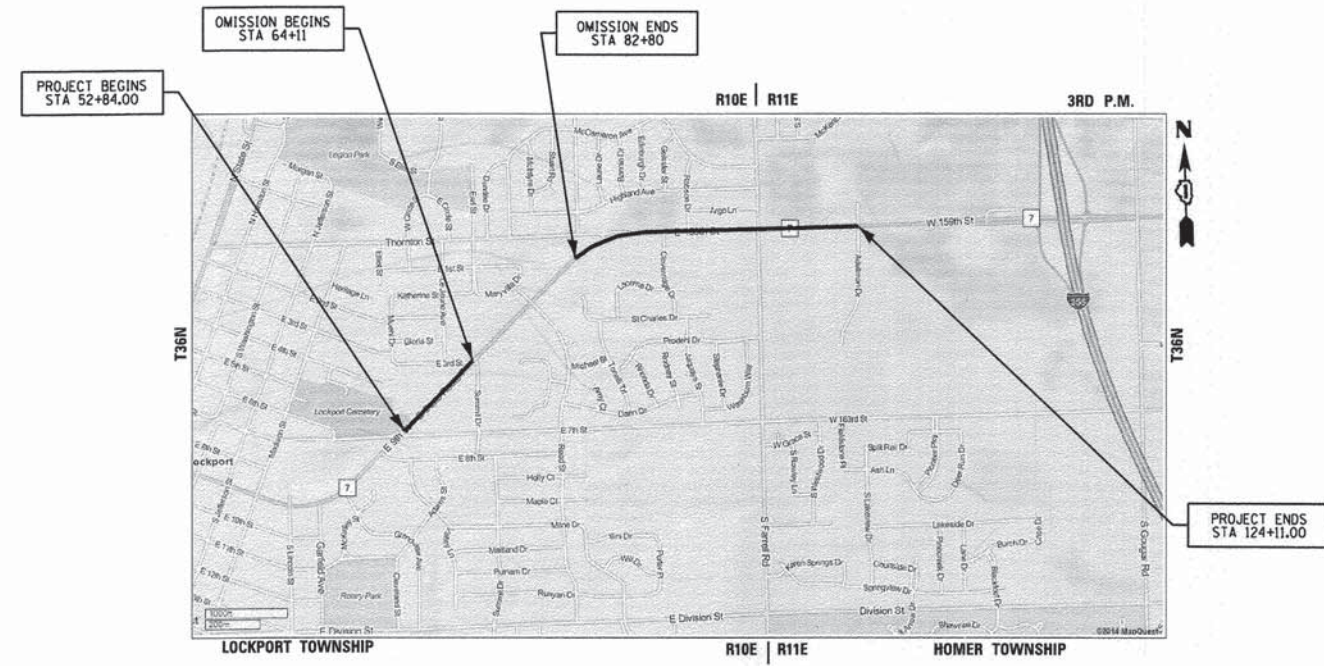


PROJECT LOCATED IN  
CITY OF LOCKPORT



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



LOCATION MAP  
SCALE: NTS  
GROSS & NET LENGTH OF PROJECT: 7.127 FT. (1.35 MILES)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED: Dec. 03, 2014  
*Alan*  
City of Lockport, Director of Engineering

PASSED: JANUARY 6, 2015  
*Chris M. Hoyer*  
District 1 Engineer of Local Roads & Streets

Releasing for Bid  
Based on Limited  
Review January 7, 2015  
*John F. Moran*  
Deputy Director of Highways, Region 1 Engineer

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JAMES J. BENES & ASSOCIATES, INC.

JJB  
JAMES J. BENES & ASSOCIATES  
CONSULTING ENGINEERS  
950 WARRENVILLE ROAD, SUITE 101  
LISLE, IL 60532  
(630) 719-7570  
SIGNATURE: *John J. Benes*  
DATE: 12/3/14  
IL LICENSE NO: 062-060441  
EXP. DATE: NOVEMBER 30, 2015  
FIELD: JAMES J. BENES AND ASSOCIATES, INC.  
CIVIL ENGINEERING

FEDERAL AID PROGRAM ENGINEER: FAWAD AQUEEL, P.E. (847) 705-4021, SCHAUMBURG, IL  
CONSULTANT: JAMES J. BENES & ASSOCIATES, INC. (630) 719-7570

CONTRACT NO. 61A31

INDEX OF SHEETS

SHEET NO.	TITLE
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23	CABLE PLAN AT FARRELL ROAD
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25	CABLE PLAN AT ADELMANN ROAD
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BENCH MARKS

- S.W. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT LOCATED AT THE SOUTHEAST CORNER OF GRANDVIEW AVENUE AND IL RTE. 7 (STA. 39+75, 67' RIGHT). ELEVATION = 644.41
- S.W. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT LOCATED AT THE SOUTHWEST CORNER OF 3RD STREET AND IL RTE. 7 (STA. 63+90, 64' LEFT). ELEVATION = 651.70
- SPIKE IN SOUTH FACE OF UTILITY POLE. UTILITY POLE LOCATED AT THE NORTHEAST CORNER OF THORNTON STREET AND IL RTE. 7 (STA. 89+94, 68' LEFT). ELEVATION = 684.96
- ARROW BOLT ON FIRE HYDRANT. FIRE HYDRANT LOCATED ON THE SOUTH SIDE OF IL RTE. 7 NEAR ROBSON DRIVE (STA. 100+92, 45' RIGHT). ELEVATION = 691.83

COMMITMENTS: NONE

STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-08	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-02	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424021-03	DEPRESS CORNER FOR SIDEWALKS
424026-01	ENTRANCE/ALLEY PEDESTRIAN CROSSING
442201-03	CLASS C AND D PATCHES
542001-04	REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERT 15" (375 mm) THRU 84" (2100mm) DIA
542306-02	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
602401-03	MANHOLE TYPE A
602421-04	MANHOLES TYPE A 9' (2.7m) DIAMETER
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS TYPE 1
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-10	STEEL PLATE BEAM GUARD RAIL
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600mm) FROM PAVEMENT EDGE
701101-04	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600mm) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701606-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W CROSSWALKS OR SIDEWALK CLOSURE
701901-04	TRAFFIC CONTROL DEVICES

LIST OF DISTRICT ONE DETAILS

BD-01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND CURB OR EDGE GREATER THAN OR EQUAL TO 15'(4.5m)
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TS-05	STANDARD TRAFFIC SIGNAL DESIGN DETAILS

GENERAL NOTES

- ACCESS TO LOCAL RESIDENCES AND BUSINESSES SHALL BE MAINTAINED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL GIVE THE MUNICIPALITY THREE (3) WORKING DAYS NOTICE PRIOR TO THE COMMENCEMENT OF WORK. (CITY OF LOCKPORT: (815) 838-0549)
- ALL ELEVATIONS ARE ON NAVD 88 DATUM.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE ENGINEER SHALL NOT ASSUME ANY OF THE RESPONSIBILITIES OF THE CONTRACTOR'S SUPERINTENDENT OR OF SUBCONTRACTORS. ADDITIONALLY, THE ENGINEER SHALL NOT ADVISE ON, OR ISSUE DIRECTIONS CONCERNING, ASPECTS OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR SAFETY PRECAUTIONS AND/OR PROGRAMS IN CONNECTION WITH THE WORK.
- THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THEIR ACCURACY IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF ALL UTILITIES. THE CONTRACTOR SHALL REPORT ANY ENCOUNTERED DISCREPANCIES TO THE ENGINEER AT ONCE. THE CONTRACTOR SHALL TAKE DUE CARE IN ALL PHASES OF CONSTRUCTION TO PROTECT ANY UTILITIES WHICH MAY BE AFFECTED BY THE WORK. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE IN ACCORDANCE WITH ARTICLES 105.07, 107.20 AND 107.31.
- THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA FREE OF DEBRIS AND/OR OBJECTIONABLE MATERIALS DURING CONSTRUCTION. THE CONTRACTOR SHALL INSPECT THE SITE DAILY FOR DEBRIS ON THE ROADWAY SURFACE. THE RIGHT-OF-WAY SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION IN ACCORDANCE WITH ARTICLE 107.20.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES DURING CONSTRUCTION AND SHALL REPAIR ANY DRAINAGE FACILITIES DAMAGED DURING CONSTRUCTION. THIS WORK SHALL BE INCLUDED IN THE COST OF THE DRAINAGE ITEMS BEING CONSTRUCTED AND WILL NOT BE PAID FOR SEPARATELY.
- THE CONTRACTOR SHALL VERIFY THE ELEVATIONS OF EXISTING STORM SEWERS PRIOR TO THE CONSTRUCTION OF PROPOSED STORM SEWER.
- THE RELOCATION OF SIGNS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION AND WILL NOT BE PAID FOR SEPARATELY IN ACCORDANCE WITH ARTICLE 107.25.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS, SEWERS AND WATER UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED.)
- THE CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH ALL UTILITY COMPANIES AND THE MUNICIPALITY.
- SAW CUTTING OF PAVEMENT, SHOULDERS, CURB AND GUTTER, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN CLEAN, STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM REMOVED.
- THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD CONTROL ENGINEER AT (847) 705-4470 PRIOR TO PLACEMENT PLACING ANY PAVEMENT MARKINGS.
- THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2012; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2014; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (MUTCD), "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" JULY 2009 SIXTH EDITION, THE "DETAILS" IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANKS (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.
- IN ACCORDANCE WITH ARTICLE 107.25, THE RELOCATION OF ALL SIGNS IS INCLUDED IN THE COST OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.





JAMES J. BENES & ASSOCIATES, INC.  
950 Warrenville Road, Suite 101, Lisle, Illinois 60532  
Tel. (630) 719-7570 • Fax (630) 719-7589

FILE NAME =	USER NAME =	DESIGNED -- BDH	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		INDEX OF SHEETS, GENERAL NOTES, STATE STANDARDS AND BENCH MARKS F.A.P. ROUTE 351 (IL ROUTE 7)		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -- SMP	REVISED --					351	10-00074-00-BR	WILL	51	2
		CHECKED -- BDH	REVISED --			SCALE: NONE	SHEET NO. OF SHEETS	STA. _____ TO STA. _____				CONTRACT NO. 61A31
		DATE -- 11-24-2014	REVISED --									ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADSIDE IMPROVEMENTS	
				80% FED 20% VILLAGE 0021	
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	36	36	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	30	30	
20101200	TREE ROOT PRUNING	EACH	5	5	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	982	982	
20400800	FURNISHED EXCAVATION	CU YD	176	176	
20800150	TRENCH BACKFILL	CU YD	124	124	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	76	76	
28000400	PERIMETER EROSION BARRIER	FOOT	2,315	2,315	
28000500	INLET AND PIPE PROTECTION	EACH	8	8	
28000510	INLET FILTERS	EACH	18	18	
28100105	STONE RIPRAP, CLASS A3	SQ YD	76	76	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TONS	80	80	
42001300	PROTECTIVE COAT	SQ YD	3,679	3,679	
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	109	109	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	30,887	30,887	
42400800	DETECTABLE WARNINGS	SQ FT	330	330	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	934	934	
44000300	CURB REMOVAL	FOOT	106	106	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	476	476	
44000600	SIDEWALK REMOVAL	SQ FT	414	414	
44004000	PAVED DITCH REMOVAL	FOOT	35	35	
44201670	CLASS D PATCHES, TYPE I, 2 INCH	SQ YD	23	23	
44201672	CLASS D PATCHES, TYPE II, 2 INCH	SQ YD	78	78	
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	100	100	
50104400	CONCRETE HEADWALL REMOVAL	EACH	2	2	
50105220	PIPE CULVERT REMOVAL	FOOT	57	57	
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	1	1	
54010504	PRECAST CONCRETE BOX CULVERTS 5' X 4'	FOOT	17	17	
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1	
54214755	PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE 60"	EACH	1	1	
54215460	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 60"	EACH	1	1	
54248510	CONCRETE COLLAR	CU YD	2	2	
550A0210	STORM SEWERS, CLASS A, TYPE 1 60"	FOOT	5	5	
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	35	35	
550A4730	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 60"	FOOT	74	74	
56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	5	5	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60224469	MANHOLES, TYPE A, 9'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	5	5	
60600605	CONCRETE CURB, TYPE B	FOOT	106	106	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	91	91	
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	197	197	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	155	155	
60608562	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12	FOOT	20	20	

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADSIDE IMPROVEMENTS	
				80% FED 20% VILLAGE 0021	
63200310	GUARDRAIL REMOVAL	FOOT	55	55	
63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	310	310	
63302000	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 2	EACH	8	8	
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	950	950	
66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1	
66900530	SOIL DISPOSAL ANALYSIS	EACH	10	10	
67100100	MOBILIZATION	L SUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	95	95	
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	136	136	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	30	30	
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,818	1,818	
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	181	181	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	512	512	
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA	FOOT	59	59	
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2	2	
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,453	1,453	
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,480	1,480	
87602000	PEDESTRIAN PUSH-BUTTON POST	EACH	4	4	
87900200	DRILL EXISTING HANDHOLE	EACH	4	4	
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2	2	
88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2	2	
88600100	DETECTOR LOOP, TYPE 1	FOOT	70	70	
88800100	PEDESTRIAN PUSH-BUTTON	EACH	7	7	
89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	4	4	
89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	1	1	
89502200	MODIFY EXISTING CONTROLLER	EACH	2	2	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	310	310	
89502376	REBUILD EXISTING HANDHOLE	EACH	7	7	
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.6	1.6	
Z0007124	STEEL RAILING (SPECIAL)	FOOT	925	925	
Z0013302	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	1,846	1,846	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0017400	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	7	7	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4	
Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	2	2	
Z0066700	STABILIZED DRIVEWAYS 10"	SQ YD	640	640	
Z0075496	CONCRETE RETAINING WALL REMOVAL	FOOT	66	66	
Z0076600	TRAINEES	HOUR	500	500	
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500	

LEGEND  
 - DENOTES SPECIALTY ITEM  
 - 0042

**JJB** JAMES J. BENES & ASSOCIATES, INC.  
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 Tel. (630) 719-7570 • Fax (630) 719-7589

FILE NAME =	USER NAME =	DESIGNED -- BDH	REVISED --
		DRAWN -- SMP	REVISED --
	PLOT SCALE =	CHECKED -- BDH	REVISED --
	PLOT DATE =	DATE -- 11-24-2014	REVISED --

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
 IL ROUTE 7 (9th STREET)

SCALE: NONE SHEET NO. - OF - SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	3
			CONTRACT NO. 61A.31	
ILLINOIS FED. AID PROJECT				

TREE ROOT PRUNING		
STATION	OFFSET (FOOT)	QUANTITY (EACH)
<b>IL RTE 7</b>		
83+00	28 LT	1
103+20	47 LT	1
106+70	50 LT	1
108+95	45 LT	1
109+00	45 LT	1
TOTAL QUANTITY =		5

TREE REMOVAL (6 TO 15 UNITS)		
STATION	OFFSET (FOOT)	QUANTITY (UNIT)
<b>IL RTE 7</b>		
62+18	46 LT	6
107+47	39 LT	12
110+95	32 LT	6
110+95	32 LT	12
TOTAL QUANTITY =		36

TREE REMOVAL (OVER 15 UNITS)		
STATION	OFFSET (FOOT)	QUANTITY (UNIT)
<b>IL RTE 7</b>		
107+43	41 LT	30
TOTAL QUANTITY =		30

INLET AND PIPE PROTECTION		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>IL RTE 7</b>		
57+74	52' LT	1
84+60	57' RT	1
85+28	43' RT	1
85+29	52' RT	1
86+40	44' RT	1
86+40	46' RT	1
103+51	32' LT	1
104+76	42' LT	1
TOTAL QUANTITY =		8

INLET FILTERS		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>IL RTE 7</b>		
52+67	64' LT	1
64+69	28' LT	1
88+35	54' RT	1
90+15	39' LT	1
104+56	39' LT	1
109+59	41' RT	1
109+68	32' RT	1
110+40	46' RT	1
110+42	94' RT	1
110+58	86' RT	1
110+64	72' LT	1
110+64	77' LT	1
111+25	84' RT	1
120+04	31' LT	1
120+10	31' LT	1
122+04	31' LT	1
124+22	56' LT	1
124+26	60' LT	1
TOTAL QUANTITY =		18

HANDHOLE TO BE ADJUSTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>IL RTE 7</b>		
110+45	55 RT	1
110+47	48 LT	1
111+40	55 RT	1
117+83	35 LT	1
121+52	35 LT	1
124+00	53 RT	1
124+06	44 LT	1
TOTAL QUANTITY =		7

DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>IL RTE 7</b>		
92+22	69 LT	1
92+80	39 RT	1
93+15	40 RT	1
93+24	40 RT	1
101+95	42 LT	1
104+78	40 LT	1
110+21	38 LT	1
TOTAL QUANTITY =		7

EARTHWORK		
LOCATION	REMOVAL & DISPOSAL OF UNSUITABLE MAT.** (CU YD)	FURNISHED EXCAVATION** (CU YD)
<b>IL ROUTE 7</b>		
STA 52+84 TO STA 57+93	85.2	33.5
STA 61+33 TO STA 64+16	74.6	28.6
STA 82+80 TO STA 89+44	226.8	7.4
STA 90+10 TO STA 94+08	125.4	15.5
STA 98+15 TO STA 101+08	94.9	0.0
STA 101+50 TO STA 110+68	206.3	72.5
STA 114+89 TO STA 124+00	136.4	18.5
TOTAL QUANTITY =		176

\*ALL CUT MATERIAL SHALL BE HAULED OFF SITE DUE TO NO ONSITE STORAGE LOCATIONS.  
 \*\*ALL FILL MATERIAL (EMBANKMENT) SHALL BE BROUGHT IN FROM OFFSITE LOCATION, SINCE ON SITE EXCAVATED MATERIAL MUST BE HAULED OFF SITE.

DRIVEWAY QUANTITY SCHEDULE					
STATION	OFFSET	EXISTING PAVEMENT	DRIVEWAY PAVEMENT REMOVAL (SQ. YD.)	STABILIZED DRIVEWAYS 10" (SQ. YD.)	P.C.C. DRIVEWAY P.VMT 8 INCHES (SQ. YD.)
<b>IL RTE 7</b>					
53+12	LT	HMA	22	49	
57+24	LT	HMA	181	160	
84+93	RT	HMA	20	3	
87+11	RT	HMA	79	65	
87+18	LT	HMA	32	15	
88+00	RT	HMA	22	10	
88+02	LT	HMA	34	15	
88+45	RT	HMA	35	25	
100+14	LT	HMA	178	173	
104+00	LT	P.C.C.	91		64
106+42	LT	P.C.C.	18		8
107+20	LT	P.C.C.	30		19
107+96	LT	HMA	21	11	
108+73	LT	P.C.C.	28		18
115+55	LT	HMA	72	58	
116+26	LT	HMA	72	57	
TOTAL QUANTITY =			934	640	109

SEGMENTAL CONCRETE BLOCK WALL				
LOCATION	OFFSET	LENGTH (FOOT)	AVERAGE HEIGHT (FOOT)	QUANTITY (SQ FT)
<b>IL RTE 7</b>				
88+54 TO 89+32	RT	78	1.5	117
90+10 TO 90+56	RT	46	1.5	69
99+10 TO 99+70	LT	60	1.5	90
100+31 TO 100+97	LT	66	2.0	132
117+75 TO 124+00	LT	625	2.3	1438
TOTAL QUANTITY =				1,846

FILE NAME =	USER NAME =	DESIGNED -- JDS	REVISED --
		DRAWN -- SMP	REVISED --
		CHECKED -- JDS	REVISED --
		DATE -- 11-24-2014	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

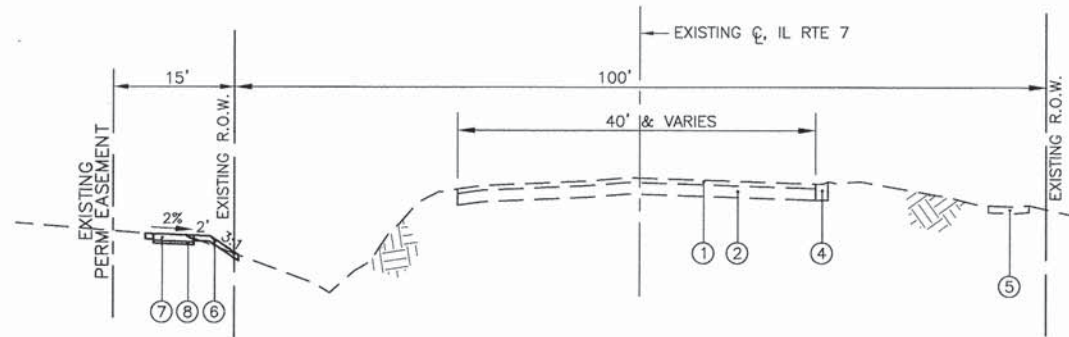
**JJB** JAMES J. BENES & ASSOCIATES, INC.  
 950 Warrenville Road, Suite 101, Lisle, Illinois 60532  
 Tel. (630) 719-7570 • Fax (630) 719-7589

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	4

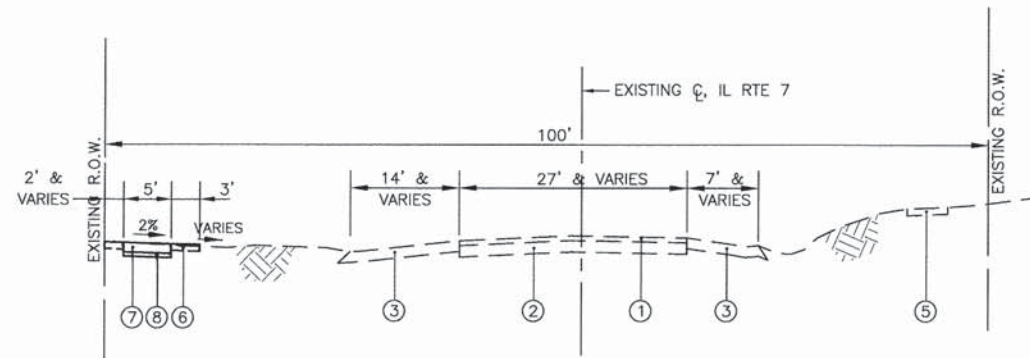
CONTRACT NO. 61A31  
ILLINOIS FED. AID PROJECT

**LEGEND**

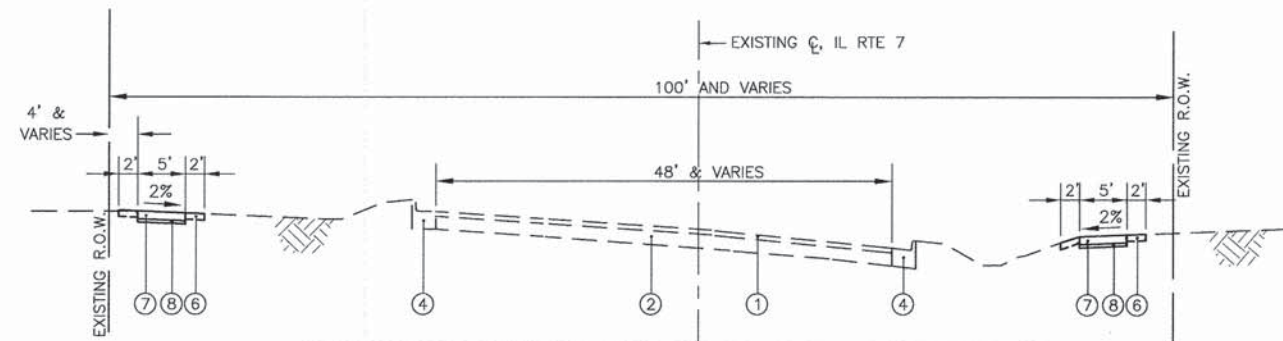
- ① EXISTING HOT-MIX ASPHALT SURFACE COURSE, THICKNESS VARIES
- ② EXISTING P.C.C. PAVEMENT, 9" AND VARIES
- ③ EXISTING AGGREGATE SHOULDERS, THICKNESS VARIES
- ④ EXISTING CONCRETE CURB AND GUTTER
- ⑤ EXISTING P.C.C. SIDEWALK
- ⑥ SEEDING, CLASS 2 (SPECIAL)  
(INCLUDES 4" PULVERIZED TOP SOIL AND FERTILIZER)  
(AT LOCATIONS DESIGNATED BY THE ENGINEER)
- ⑦ PORTLAND CEMENT CONCRETE SIDEWALK 5"  
(AT ENTRANCES, THE SIDEWALK SHALL BE INCREASED TO THE THICKNESS OF THE DRIVEWAY PAVEMENT, COST INCLUDED IN P.C.C. SIDEWALK 5")
- ⑧ SUB-BASE GRANULAR MATERIAL, TYPE B 2"  
(COST INCLUDED IN P.C.C. SIDEWALK 5")
- ⑨ SEGMENTAL CONCRETE BLOCK WALL



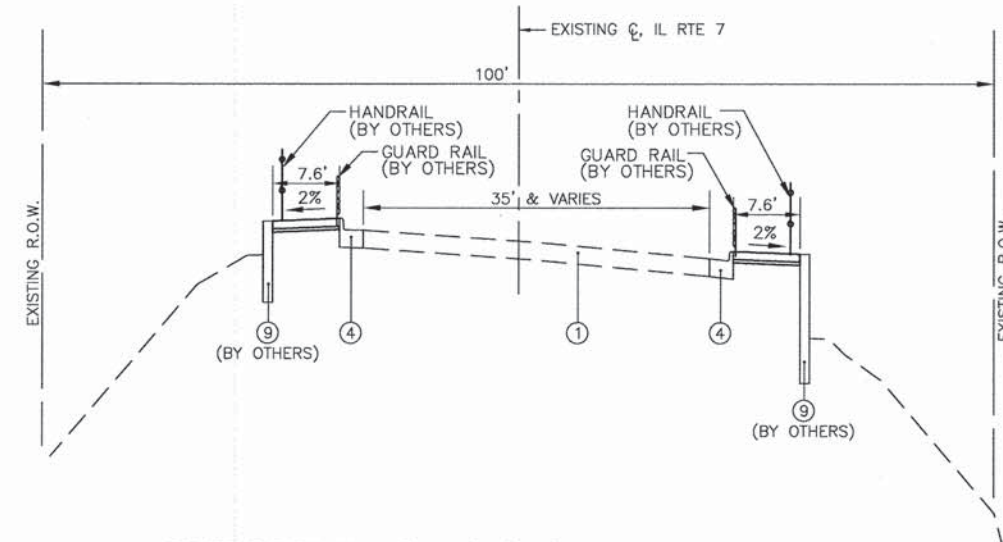
**PROPOSED TYPICAL SECTION-IL RTE 7 (LEFT SIDE ONLY)**  
 STA. 52+84 TO STA. 57+93  
 (OMISSION STA 57+93 TO STA 61+33)



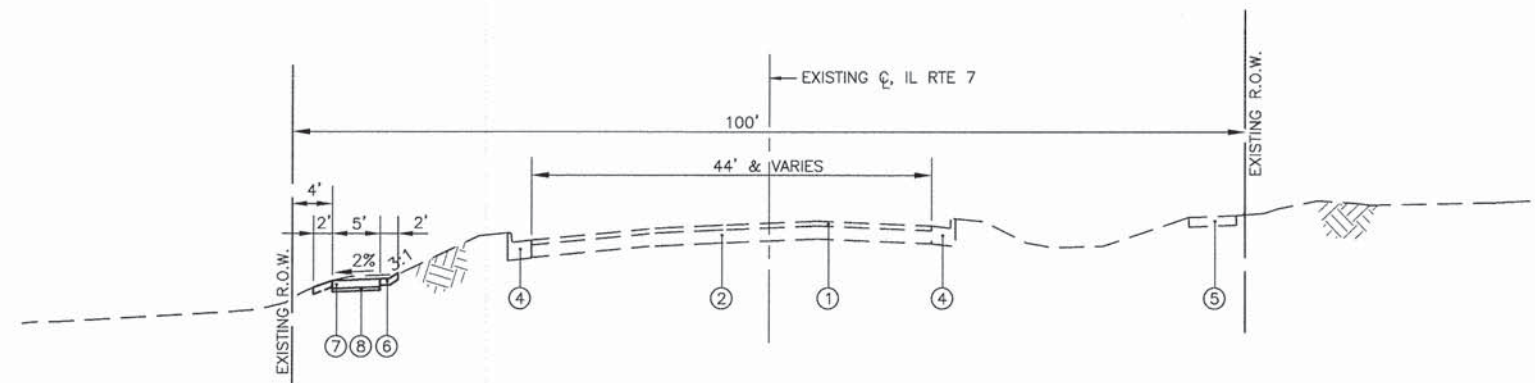
**PROPOSED TYPICAL SECTION-IL RTE 7 (LEFT SIDE ONLY)**  
 STA. 61+33 TO STA. 64+11  
 (OMISSION STA 64+11 TO STA 82+80)



**PROPOSED TYPICAL SECTION-IL RTE 7 (BOTH SIDES)**  
 STA. 82+80 TO STA. 83+25  
 STA. 86+91 TO STA. 94+08  
 (OMISSION STA. 94+08 TO STA. 98+15)



**PROPOSED TYPICAL SECTION-IL RTE 7 (BOTH SIDES)**  
 STA. 83+25 TO STA. 86+95



**PROPOSED TYPICAL SECTION-IL RTE 7 (LEFT SIDE ONLY)**  
 STA. 98+15 TO STA. 101+50

FILE NAME ==	USER NAME ==	DESIGNED -- BDH	REVISED --
		DRAWN -- SMP	REVISED --
	PLOT SCALE ==	CHECKED -- BDH	REVISED --
	PLOT DATE ==	DATE -- 11-24-2014	REVISED --

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
 F.A.P. ROUTE 351 (IL ROUTE 7)**

SCALE: NONE    SHEET NO. OF SHEETS    STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

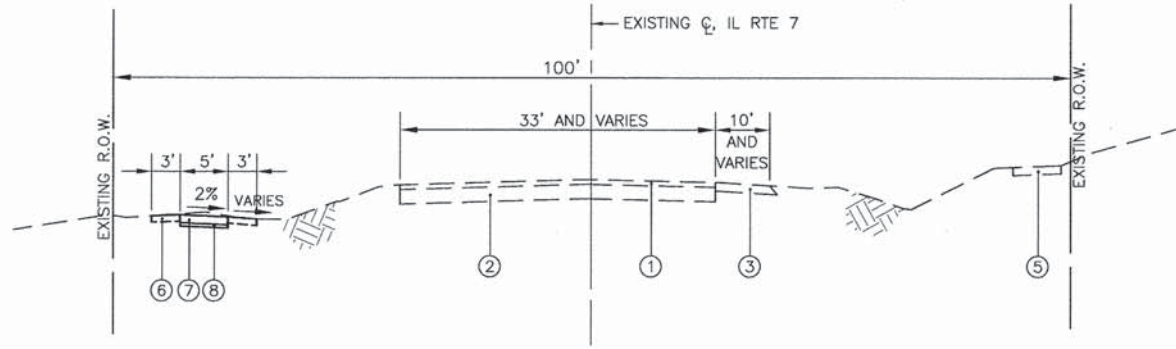
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	5
				CONTRACT NO. 61A31
ILLINOIS FED. AID PROJECT				

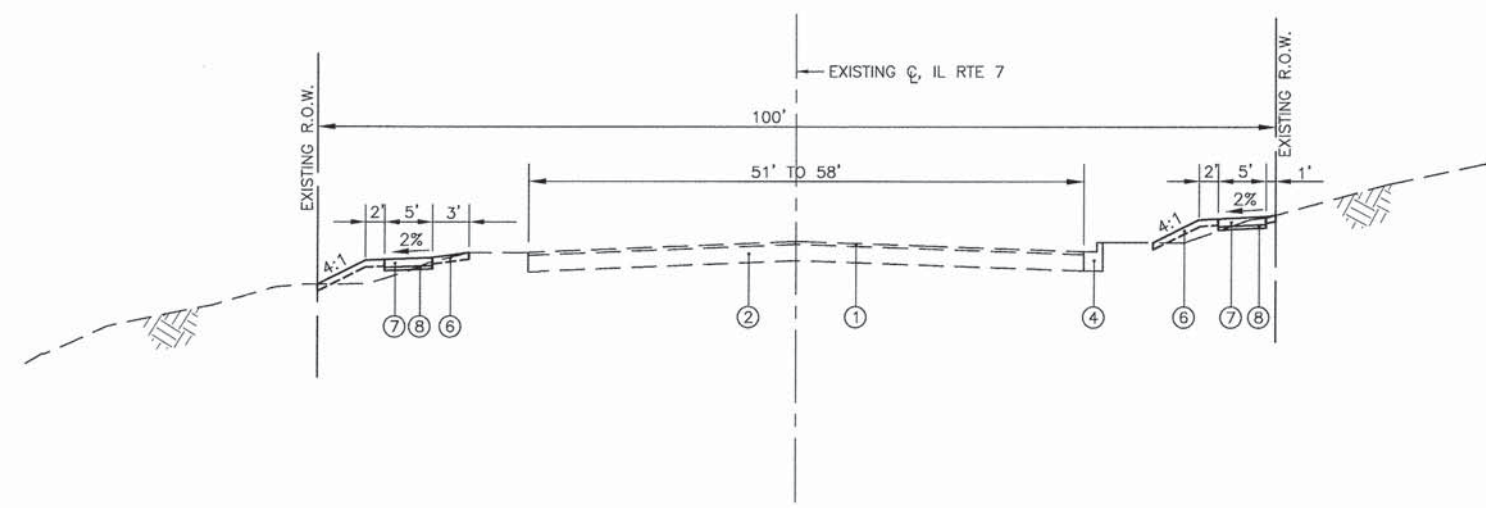
HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @Ndes
DRIVEWAYS	
HOT-MIX ASPHALT BASE COURSE, 8" (HMA BINDER IL-19mm) (2 LIFTS)	4% @ 50 Gyr.
HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N50, 2" (IL-9.5m)	4% @ 50 Gyr.
PATCHING	
CLASS D PATCHES, 2" (HMA SURFACE IL-19mm)	4% @ 70 Gyr.

**NOTES:**

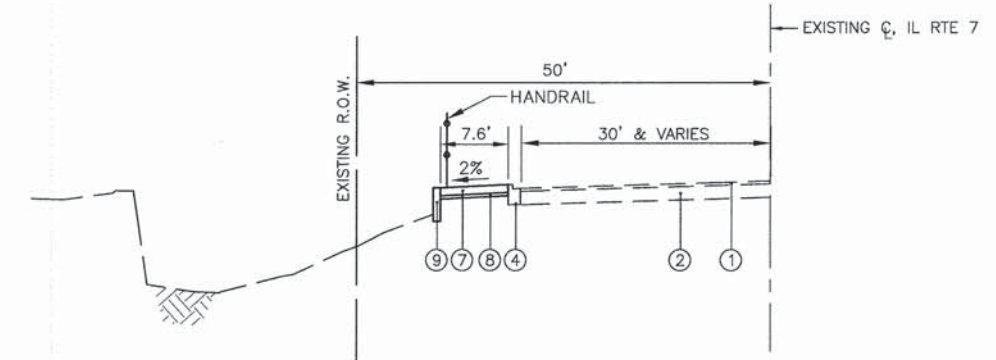
- 1) THE UNIT WEIGHT USED TO CALCULATE ALL HMA QUANTITIES IS 112 LB/SY/IN.
- 2) THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.



**PROPOSED TYPICAL SECTION-IL RTE 7 (LEFT SIDE ONLY)**  
STA. 101+50 TO STA. 107+41



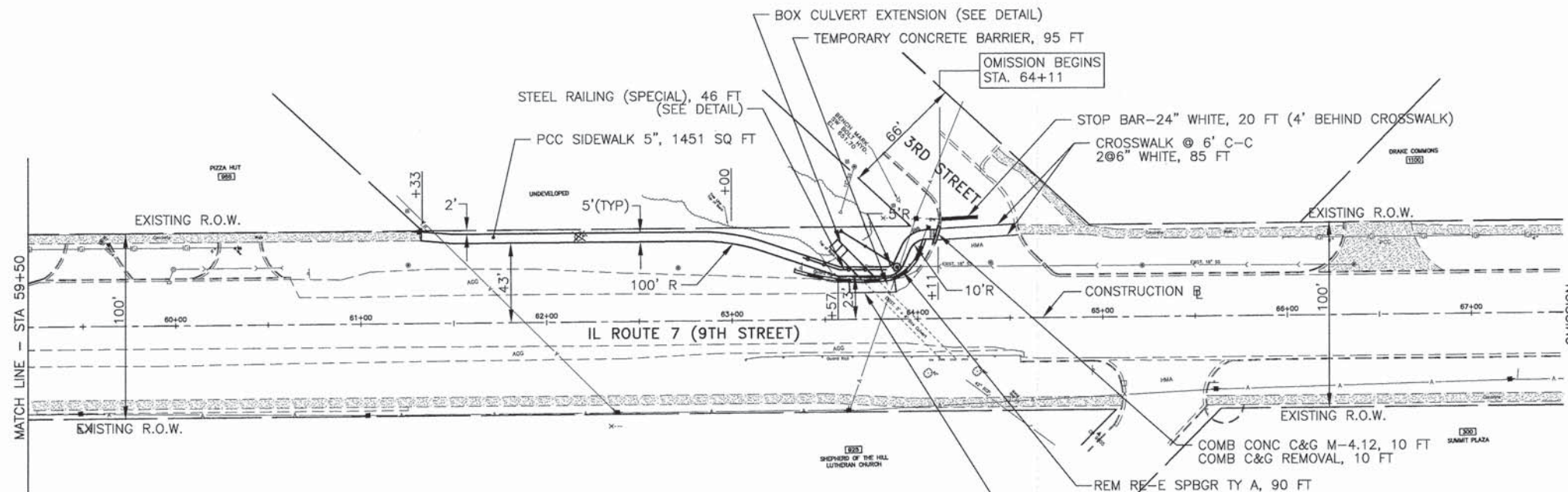
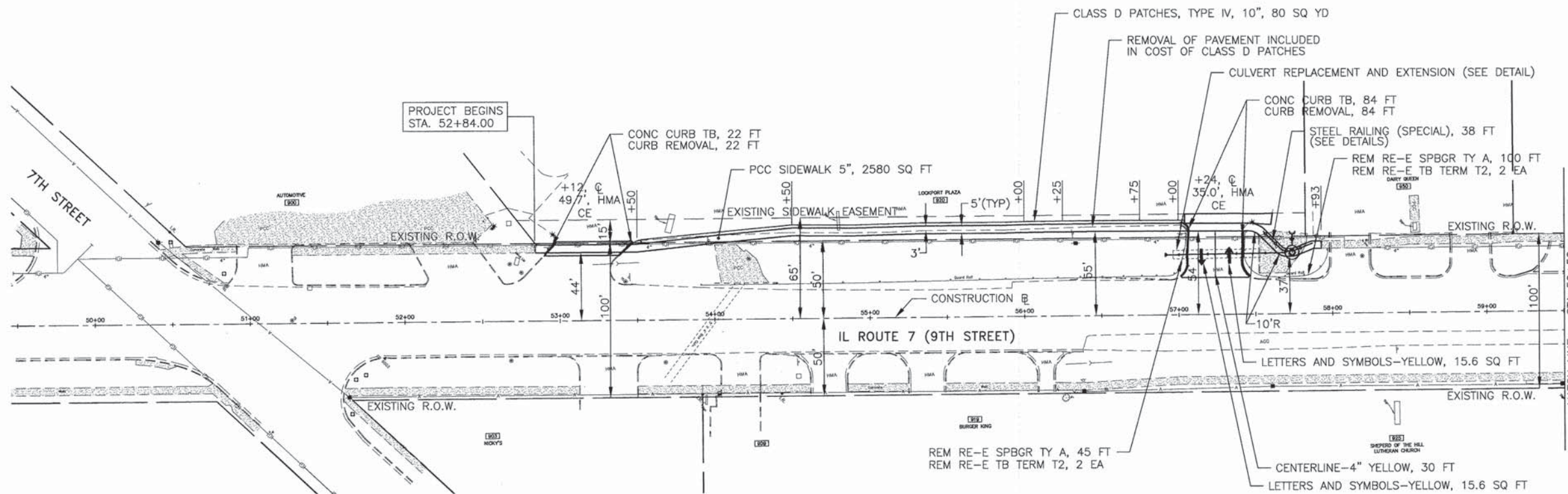
**PROPOSED TYPICAL SECTION-IL RTE 7 (BOTH SIDES)**  
STA. 107+41 TO STA. 111+69  
(OMISSION STA. 111+69 TO STA. 114+89)



**PROPOSED TYPICAL SECTION-IL RTE 7 (LEFT SIDE ONLY)**  
STA. 114+89 TO STA. 124+11

**LEGEND**

- ① EXISTING HOT-MIX ASPHALT SURFACE COURSE, THICKNESS VARIES
- ② EXISTING P.C.C. PAVEMENT, 9" AND VARIES
- ③ EXISTING AGGREGATE SHOULDERS, THICKNESS VARIES
- ④ EXISTING CONCRETE CURB AND GUTTER
- ⑤ EXISTING P.C.C. SIDEWALK
- ⑥ SEEDING, CLASS 2 (SPECIAL) (INCLUDES 4" PULVERIZED TOP SOIL AND FERTILIZER) (AT LOCATIONS DESIGNATED BY THE ENGINEER)
- ⑦ PORTLAND CEMENT CONCRETE SIDEWALK 5" (AT ENTRANCES, THE SIDEWALK SHALL BE INCREASED TO THE THICKNESS OF THE DRIVEWAY PAVEMENT, COST INCLUDED IN P.C.C. SIDEWALK 5")
- ⑧ SUB-BASE GRANULAR MATERIAL, TYPE B 2" (COST INCLUDED IN P.C.C. SIDEWALK 5")
- ⑨ SEGMENTAL CONCRETE BLOCK WALL



**LEGEND**

	UTILITY STRUCTURE TO BE ADJUSTED
	REBUILD EXISTING HANDHOLE
	TREE REMOVAL
	DETECTABLE WARNINGS ON SIDEWALK RAMPS

- NOTES:**
- 1) DRIVEWAY LIMITS ARE 2 FEET FROM EDGE OF SIDEWALK, UNLESS OTHERWISE NOTED.
  - 2) FINE GRADING OF PARKWAY TO PROVIDE POSITIVE DRAINAGE SHALL BE INCLUDED IN THE COST OF SEEDING CLASS 2A (SPECIAL).
  - 3) ALL EXCAVATED MATERIALS MUST BE REMOVED FROM THE JOBSITE AT THE END OF EACH WORK DAY.
  - 4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANKS (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

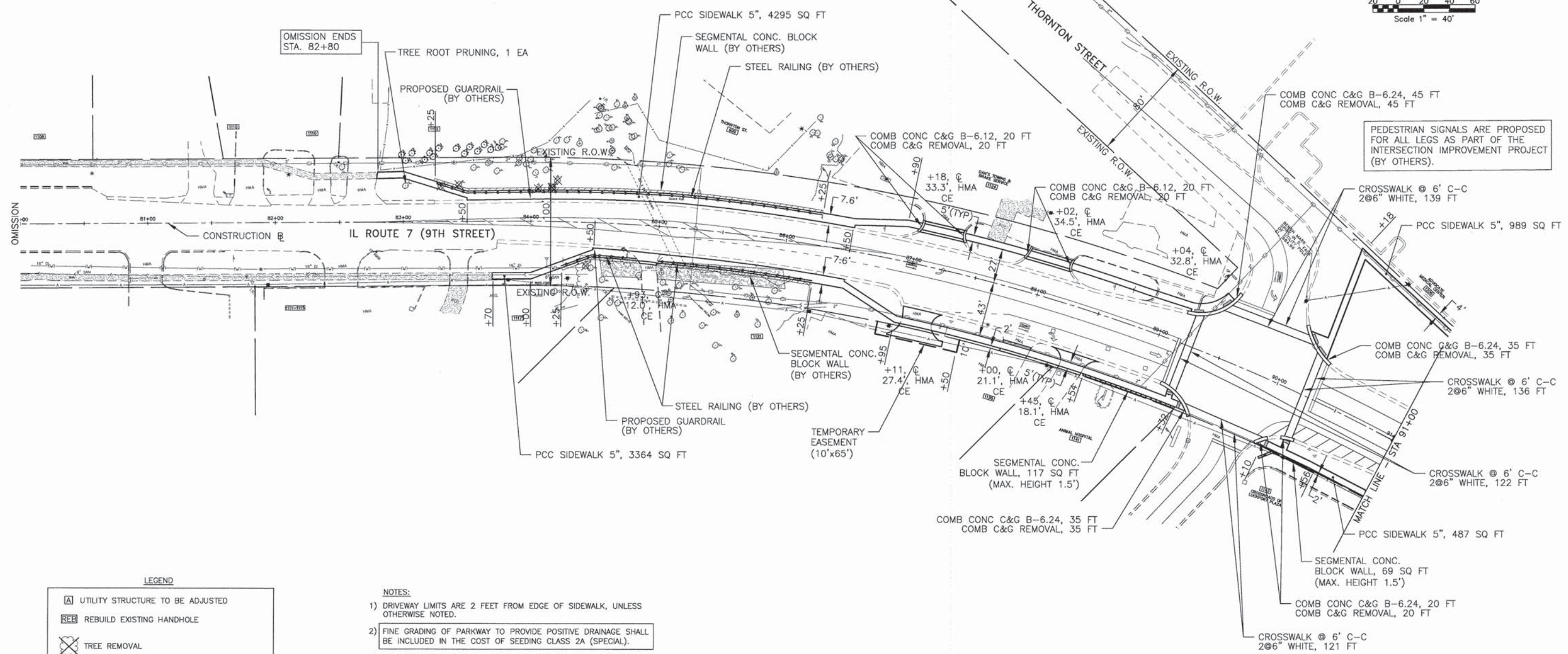
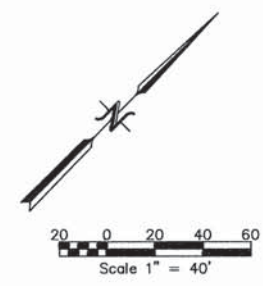
FILE NAME =	USER NAME =	DESIGNED -- BDH	REVISED --
		DRAWN -- SMP	REVISED --
		CHECKED -- BDH	REVISED --
		DATE -- 11-24-2014	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>GEOMETRIC PLAN IL ROUTE 7 (9th STREET)</b>		
SCALE: 1"=40'	SHEET NO. 1 OF SHEETS 4	STA. TO STA.

**JJB** JAMES J. BENES & ASSOCIATES, INC.  
950 Warrenville Road, Suite 101, Lisle, Illinois 60532  
Tel. (630) 719-7570 • Fax (630) 719-7589

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	7
CONTRACT NO. 61A31			ILLINOIS FED. AID PROJECT	



**LEGEND**

	UTILITY STRUCTURE TO BE ADJUSTED
	REBUILD EXISTING HANDHOLE
	TREE REMOVAL
	DETECTABLE WARNINGS ON SIDEWALK RAMPS

- NOTES:**
- 1) DRIVEWAY LIMITS ARE 2 FEET FROM EDGE OF SIDEWALK, UNLESS OTHERWISE NOTED.
  - 2) FINE GRADING OF PARKWAY TO PROVIDE POSITIVE DRAINAGE SHALL BE INCLUDED IN THE COST OF SEEDING CLASS 2A (SPECIAL).
  - 3) ALL EXCAVATED MATERIALS MUST BE REMOVED FROM THE JOBSITE AT THE END OF EACH WORK DAY.
  - 4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANKS (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

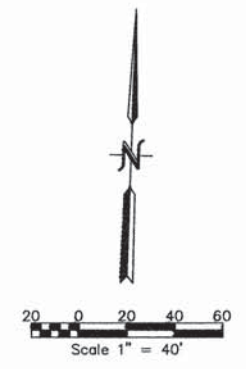
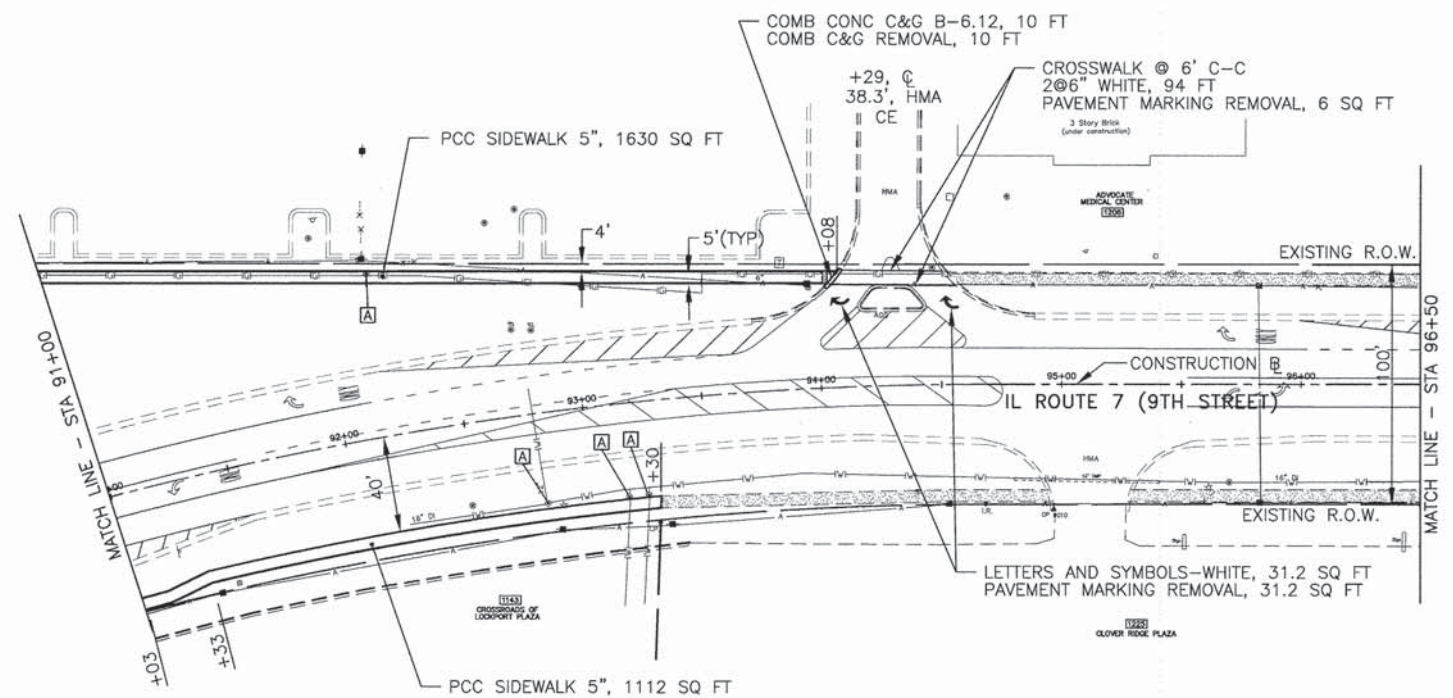
FILE NAME =	USER NAME =	DESIGNED — BDH	REVISED —
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		CHECKED — BDH	REVISED —
		DATE — 11-24-2014	REVISED —

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>GEOMETRIC PLAN IL ROUTE 7 (9th STREET)</b>		
SCALE: 1"=40'	SHEET NO. 2 OF SHEETS 4	STA. TO STA.

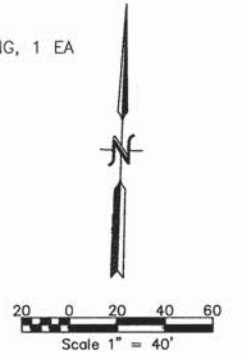
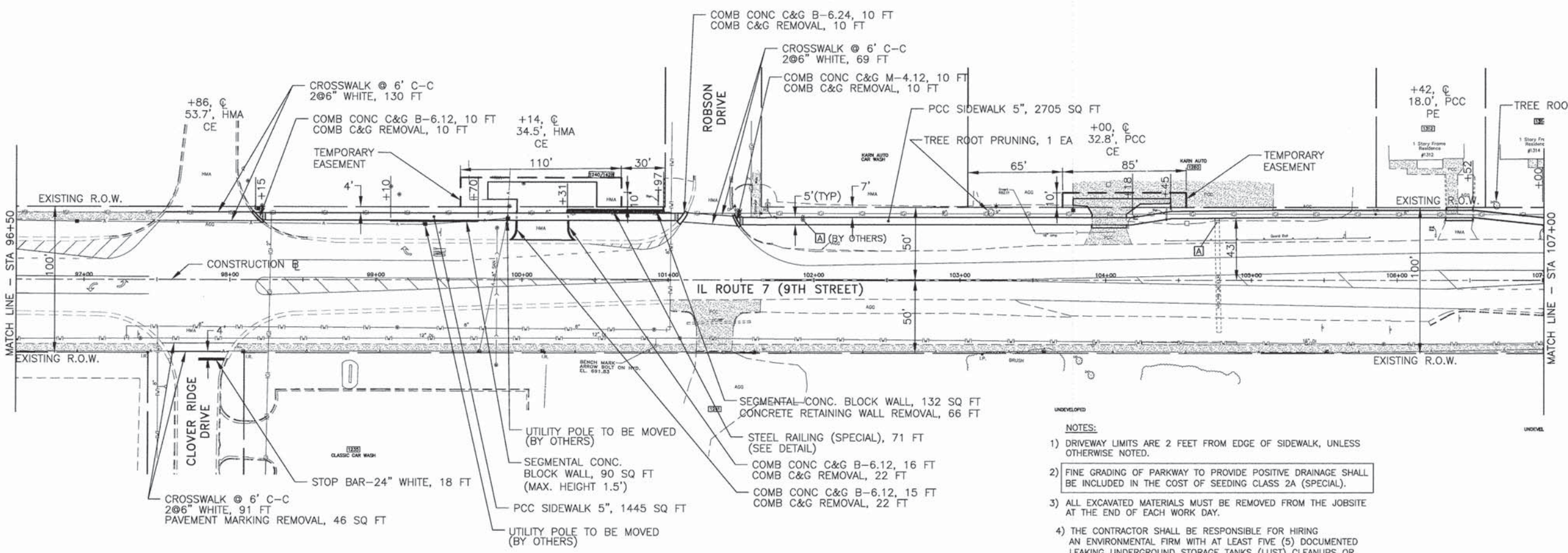
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950 Warrenville Road, Suite 101, Lisle, Illinois 60532				
Tel. (630) 719-7570 • Fax (630) 719-7589				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	8
				CONTRACT NO. 61A31
ILLINOIS FED. AID PROJECT				





**LEGEND**

	UTILITY STRUCTURE TO BE ADJUSTED
	REBUILD EXISTING HANDHOLE
	TREE REMOVAL
	DETECTABLE WARNINGS ON SIDEWALK RAMPS



- NOTES:**
- 1) DRIVEWAY LIMITS ARE 2 FEET FROM EDGE OF SIDEWALK, UNLESS OTHERWISE NOTED.
  - 2) FINE GRADING OF PARKWAY TO PROVIDE POSITIVE DRAINAGE SHALL BE INCLUDED IN THE COST OF SEEDING CLASS 2A (SPECIAL).
  - 3) ALL EXCAVATED MATERIALS MUST BE REMOVED FROM THE JOBSITE AT THE END OF EACH WORK DAY.
  - 4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANKS (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

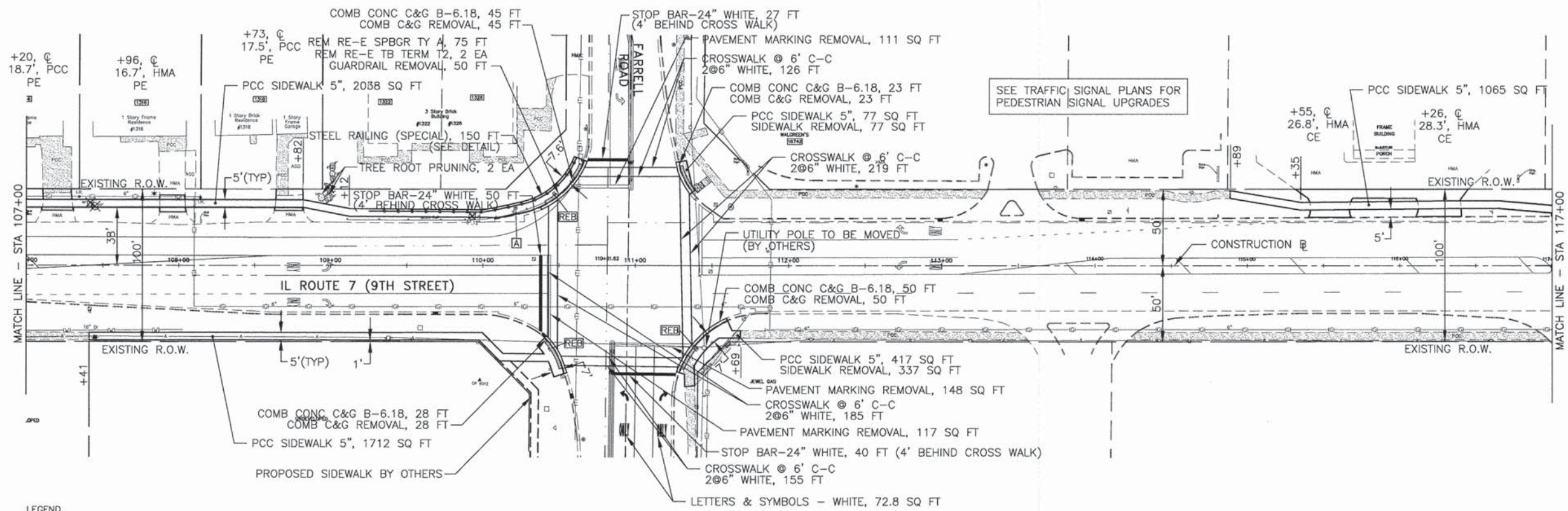
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		DRAWN — SMP	REVISED —
		CHECKED — BDH	REVISED —
		DATE — 11-24-2014	REVISED —

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GEOMETRIC PLAN  
IL ROUTE 7 (9th STREET)**

SCALE: 1"=40'    SHEET NO. 3 OF SHEETS 4    STA. TO STA.

		<b>JAMES J. BENES &amp; ASSOCIATES, INC.</b>	
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
351	10-00074-00-BR	WILL	51
			SHEET NO. 9
			CONTRACT NO. 61A31
ILLINOIS FED. AID PROJECT			

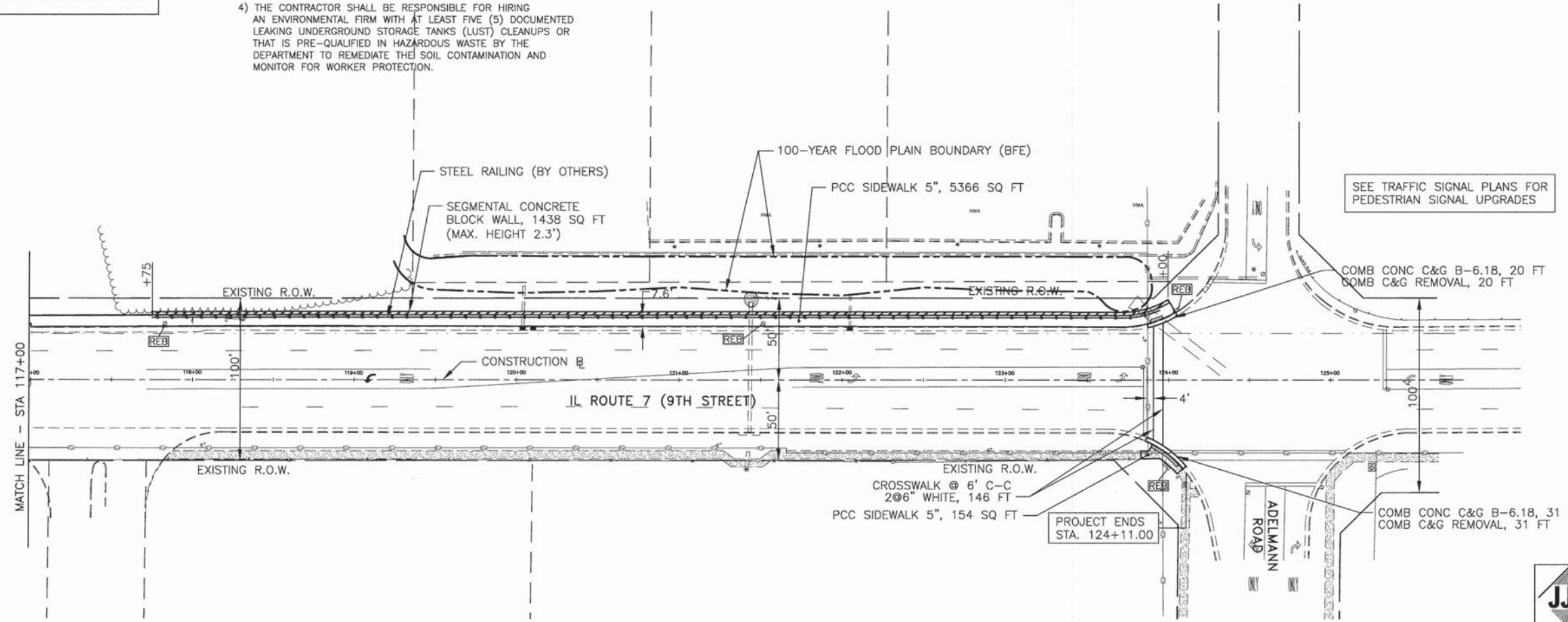


**LEGEND**

- A UTILITY STRUCTURE TO BE ADJUSTED
- REB REBUILD EXISTING HANDHOLE
- TREE REMOVAL
- DETECTABLE WARNINGS ON SIDEWALK RAMPS

**NOTES:**

- 1) DRIVEWAY LIMITS ARE 2 FEET FROM EDGE OF SIDEWALK, UNLESS OTHERWISE NOTED.
- 2) FINE GRADING OF PARKWAY TO PROVIDE POSITIVE DRAINAGE SHALL BE INCLUDED IN THE COST OF SEEDING CLASS 2A (SPECIAL).
- 3) ALL EXCAVATED MATERIALS MUST BE REMOVED FROM THE JOBSITE AT THE END OF EACH WORK DAY.
- 4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANKS (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.



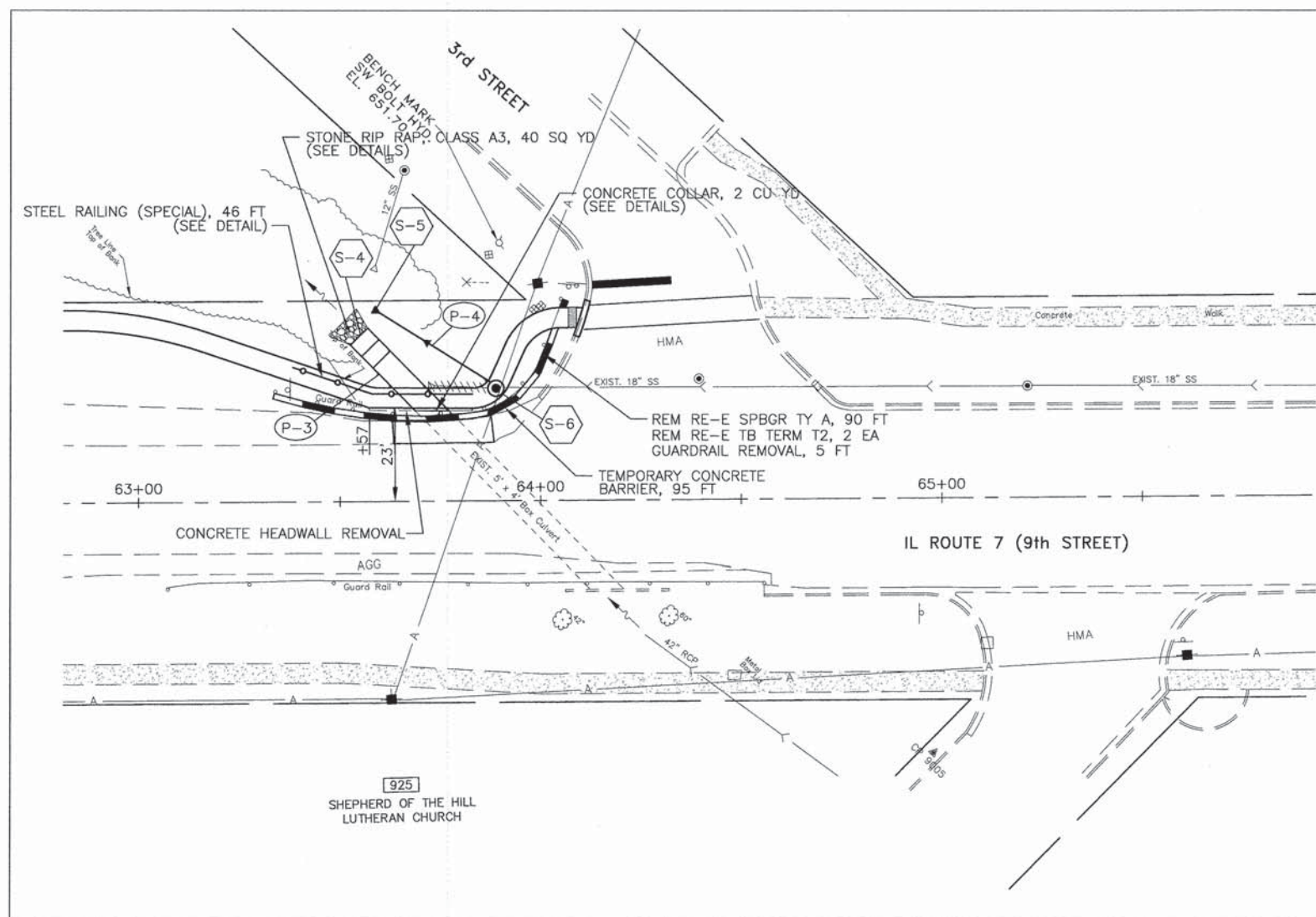
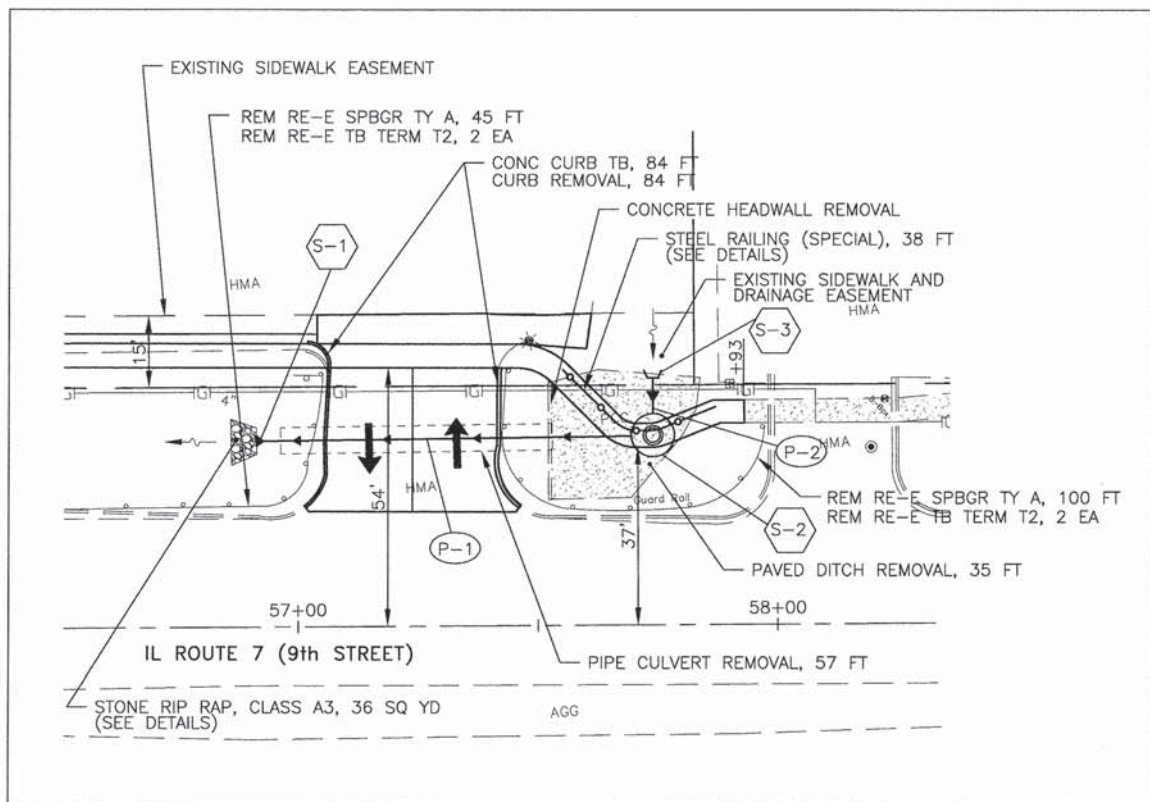
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		DRAWN -- SMP	REVISED --
		CHECKED -- BDH	REVISED --
		DATE -- 11-24-2014	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GEOMETRIC PLAN  
IL ROUTE 7 (9th STREET)**

SCALE: 1"=40'    SHEET NO. 4 OF SHEETS 4    STA. TO STA.

	<b>JAMES J. BENES &amp; ASSOCIATES, INC.</b>			
	950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 • Fax (630) 719-7589			
F.A.P. RTE. 351	SECTION 10-00074-00-BR	COUNTY WILL	TOTAL SHEETS 51	SHEET NO. 10
CONTRACT NO. 61A31				ILLINOIS FED. AID PROJECT



STORM SEWERS

PIPE NO.	LENGTH (FOOT)	MATERIAL	TYPE	DIA. (IN.)	SLOPE %	TBF (CU. YD.)
P-1	74	SS CL A EQRS 60	1	-	1.50	97
P-2	5	STORM SEW CL A	1	60	1.50	-
P-3	17	PCBC 5X4	-	-	0.29	20
P-4	35	STORM SEW CL A	2	18	0.50	7

STRUCTURES

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM	INVERT			
					NORTH	SOUTH	EAST	WEST
S-1	56+96	39 LT	PRCF END S EL EQRS 60	636.88	-	636.88	-	-
S-2	57+74	39 LT	MAN TA 9 DIA T1F CL	644.87	-	638.11	-	638.11
S-3	57+74	51 LT	CIP RC END SEC 60	638.23	-	-	-	638.23
S-4	63+54	41 LT	BOX CUL END SEC C1	643.64	-	-	643.64	-
S-5	63+60	47 LT	PRC FLAR END SEC 18	645.13	-	-	645.13	-
S-6	63+89	28 LT	MAN TA 4 DIA T1F CL	650.00	645.30	-	-	645.30

FILE NAME =	USER NAME =	DESIGNED -- JDS	REVISED --
		DRAWN -- SMP	REVISED --
	PLOT SCALE =	CHECKED -- JDS	REVISED --
	PLOT DATE =	DATE -- 11-24-2014	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN  
IL ROUTE 7 (9th STREET)

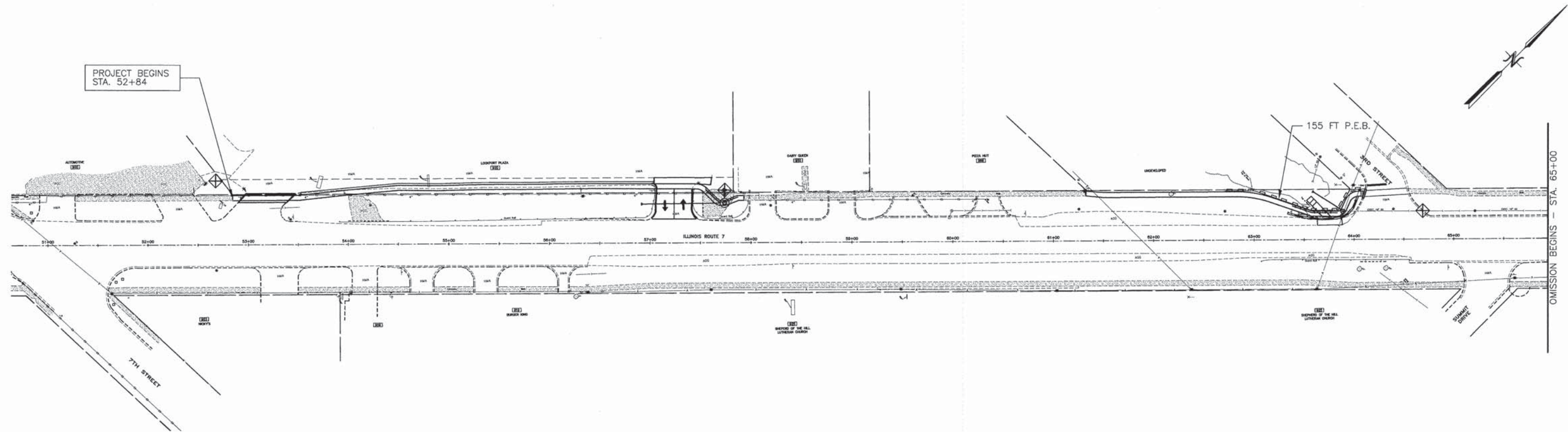
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	50	11
				CONTRACT NO. 61A31
ILLINOIS FED. AID PROJECT				

TEMPORARY EROSION CONTROL NOTES

1. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE LAND IS OTHERWISE DISTURBED ON THE SITE.
2. THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN 15 DAYS AFTER FINAL GRADE IS REACHED. STRIPPED AREAS NOT AT FINAL GRADE THAT WILL REMAIN UNDISTURBED FOR MORE THAN 15 DAYS AFTER INITIAL DISTURBANCE SHALL BE PROTECTED FROM EROSION.
3. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 3 DAYS, THEN SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED DURING CONSTRUCTION.
4. STORM SEWER INLETS SHALL BE PROTECTED WITH SEDIMENT TRAPPING OR FILTER CONTROL DEVICES DURING CONSTRUCTION.
5. THE QUANTITIES SHOWN FOR ALL EROSION CONTROL MEASURES INCLUDE THE INSTALLATION, MAINTENANCE, AND REMOVAL OF THE MEASURE.
6. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES IN SERVICEABLE CONDITION AT ALL TIMES. EROSION CONTROL MEASURES WILL BE INSPECTED ON A WEEKLY BASIS AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 0.5 INCHES OF PRECIPITATION. DURING THE WINTER MONTHS, EROSION CONTROL MEASURES WILL ALSO BE INSPECTED AFTER SIGNIFICANT SNOW MELT EVENTS.
7. ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMIT FOR THIS PROJECT.
8. AS WORK PROGRESSES, ALL SLOPES 3:1 OR GREATER SHALL RECEIVE TEMPORARY EROSION CONTROL SEEDING AND EROSION CONTROL BLANKET IMMEDIATELY. ALL FLATTER AREAS THAT DO NOT HAVE A COVER OF VEGETATION, AND WHERE NO FURTHER WORK IS TO OCCUR FOR 14 DAYS OR MORE, SHALL BE TEMPORARILY SEEDED WITHIN SEVEN (7) CALENDAR DAYS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. A SUFFICIENT QUANTITY OF TEMPORARY EROSION CONTROL SEEDING IS INCLUDED TO COVER THE LIMITS OF PERMANENT LANDSCAPING.
9. TEMPORARY DITCH CHECKS SHALL BE PLACED IMMEDIATELY AFTER DITCH GRADING (OR CLEANING AND REGRADING) IS COMPLETED.
10. ALL PROPOSED OPEN LID DRAINAGE STRUCTURES SHALL BE PROTECTED AS DIRECTED BY THE ENGINEER WITH INLET FILTERS, AND THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "INLET FILTERS". ALL OPEN END CULVERTS SHALL BE PROTECTED AS DIRECTED BY THE ENGINEER, WHICH WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "INLET AND PIPE PROTECTION". "INLET AND PIPE PROTECTION" SHALL BE COMPRISED OF DITCH CHECKS, TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL BLANKET. STRAW BALES AND SILT FENCE SHALL NOT BE USED AS INLET AND PIPE PROTECTION.
11. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.
12. ANY SOIL, MUD OR DEBRIS WASHED, TRACKED, OR DEPOSITED ONTO THE STREET SHALL BE REMOVED PRIOR TO THE END OF THE WORK DAY.
13. SILT FENCE IS NOT REQUIRED WHERE THE PERIMETER IS HIGHER THAN THE WORK ZONE, AND SILT FENCE SHALL NOT BE INSTALLED ACROSS CONCENTRATED FLOW, OR ACROSS CONTOURS WITHOUT J-HOOKS (HIGHWAY STANDARD 280001). IN AREAS OF CONCENTRATED FLOW, TEMPORARY DITCH CHECKS AREA A SUITABLE ALTERNATIVE PERIMETER EROSION BARRIER IN PLACE OF THE SILT FENCE.
14. PORTABLE TOILETS SHALL BE PLACED AWAY FROM INLETS AND WATER COURSES.
15. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES AREA NO LONGER NEEDED AS DIRECTED BY THE ENGINEER.
16. THE EROSION CONTROL MEASURES INDICATED IN THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.
17. TEMPORARY CONCRETE WASHOUT AREA FACILITY SHALL BE AT LOCATIONS DESIGNATED BY THE ENGINEER AND WILL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE COST OF THE ITEMS BEING POURED.
18. MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS WILL NOT BE PAID FOR SEPARATELY, BUT INCLUDED IN THE COST OF TEMPORARY EROSION CONTROL ITEM.



**LEGEND**

	PERIMETER EROSION BARRIER (P.E.B.)
	INLET AND PIPE PROTECTION
	INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
	INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
	DRAINAGE STRUCTURES

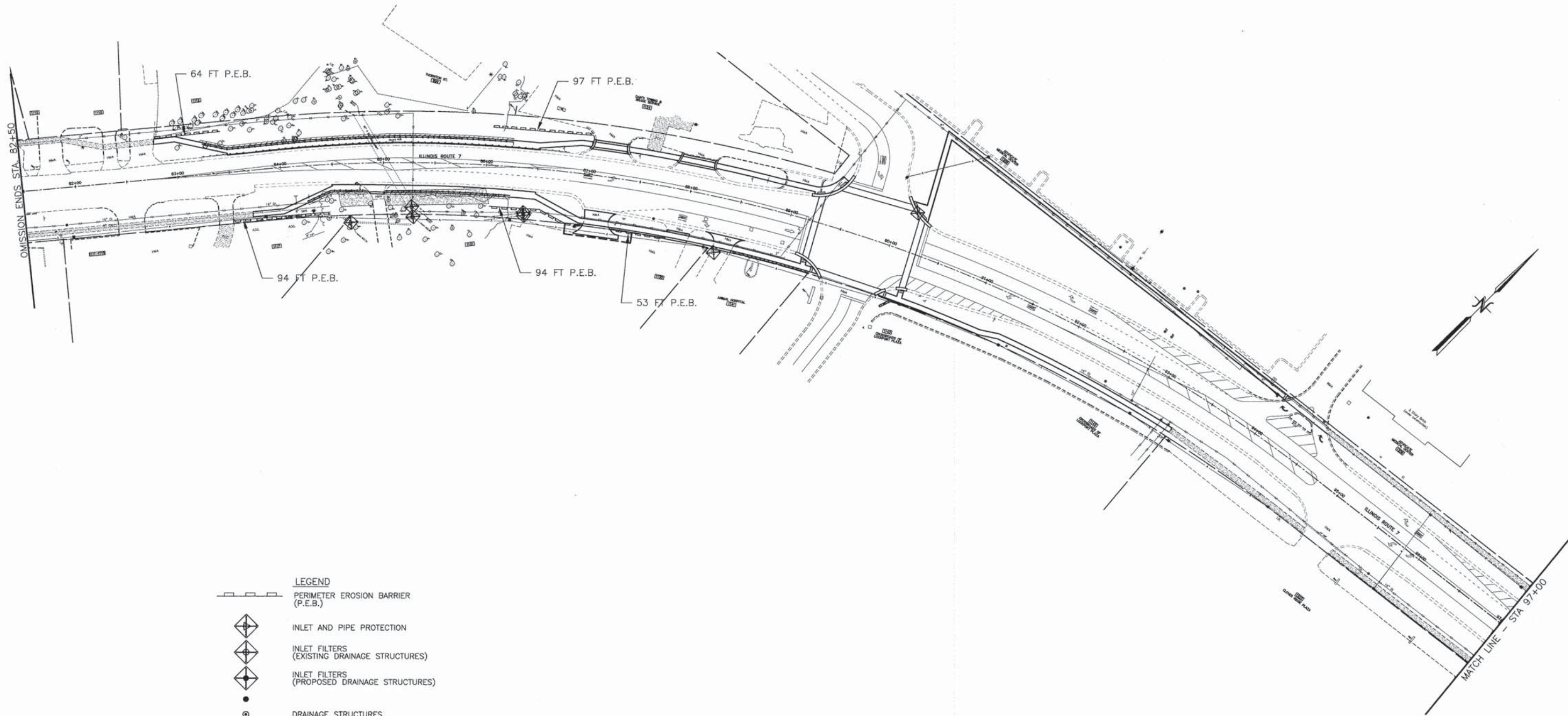
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		DRAWN -- SMP	REVISED --
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	PLOT DATE ==	DATE -- 11-24-2014	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN  
F.A.P. ROUTE 351 (IL ROUTE 7)**

SCALE: 1"=50'      SHEET NO. 1 OF 3 SHEETS      STA. 51+00 TO STA. 65+00

	JAMES J. BENES & ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 • Fax (630) 719-7589				
	F.A.P. RTE. 351	SECTION 10-00074-00-BR	COUNTY WILL	TOTAL SHEETS 51	SHEET NO. 12
				CONTRACT NO. 61A31	
ILLINOIS FED. AID PROJECT					



**LEGEND**

	PERIMETER EROSION BARRIER (P.E.B.)
	INLET AND PIPE PROTECTION
	INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
	INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
	DRAINAGE STRUCTURES

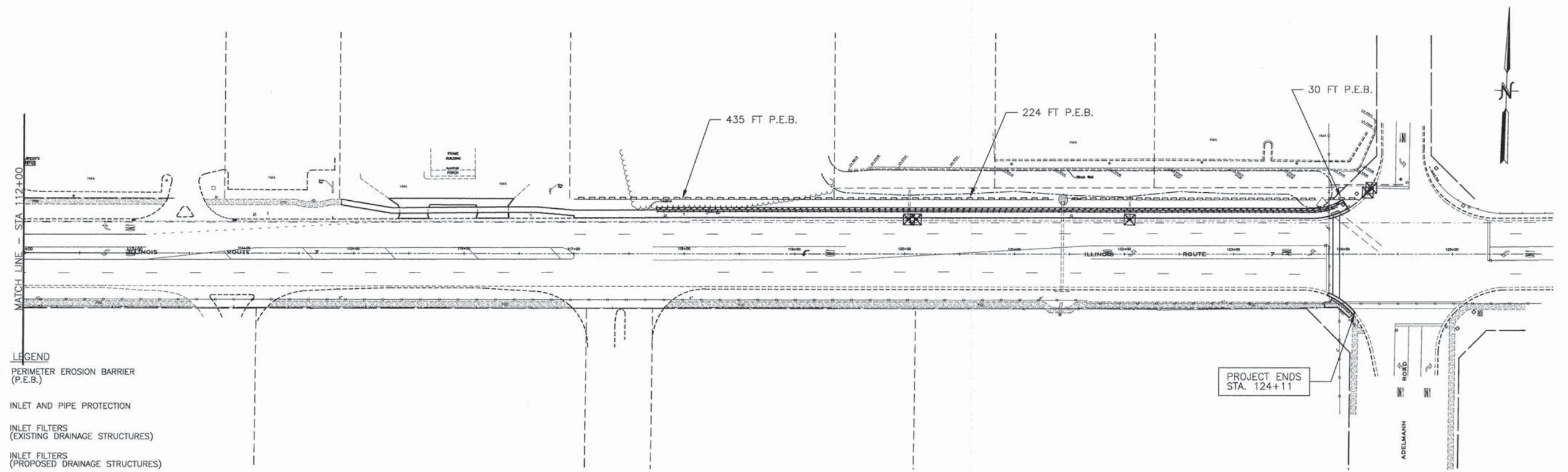
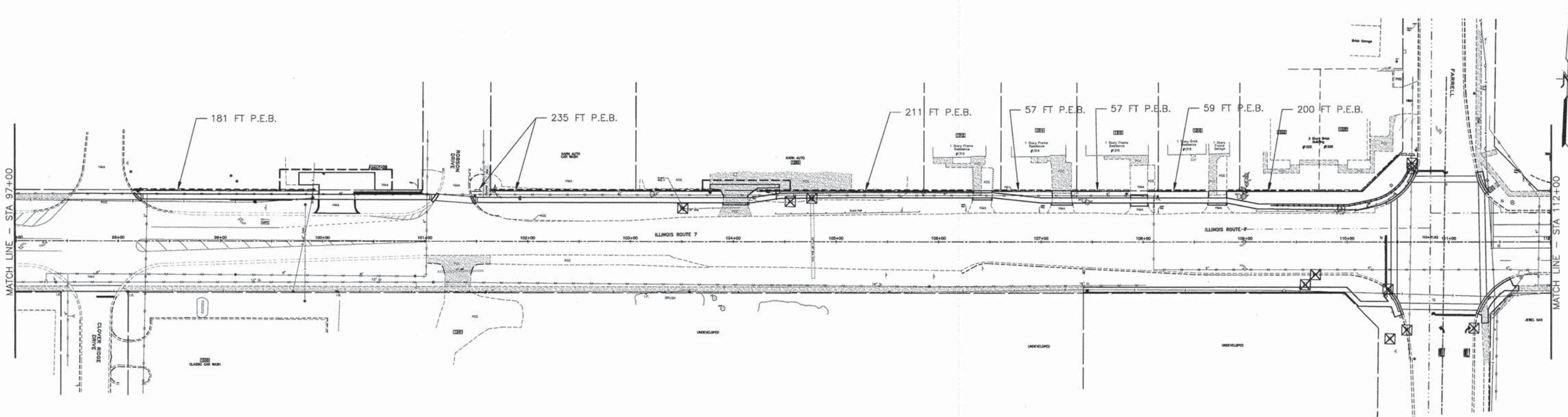
FILE NAME =	USER NAME =	DESIGNED -- JDS	REVISED --
		DRAWN -- SMP	REVISED --
	PLOT SCALE =	CHECKED -- JDS	REVISED --
	PLOT DATE =	DATE -- 11-24-2014	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL PLAN  
F.A.P. ROUTE 351 (IL ROUTE 7)**

SCALE: 1"=50'      SHEET NO. 2 OF 3 SHEETS      STA. 82+00 TO STA. 97+00

	JAMES J. BENES & ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 • Fax (630) 719-7589				
	F.A.P. RTE. 351	SECTION 10-00074-00-BR	COUNTY WILL	TOTAL SHEETS 51	SHEET NO. 13
CONTRACT NO. 61A31					
ILLINOIS FED. AID PROJECT					



- LEGEND**
- PERIMETER EROSION BARRIER (P.E.B.)
  - INLET AND PIPE PROTECTION
  - INLET FILTERS (EXISTING DRAINAGE STRUCTURES)
  - INLET FILTERS (PROPOSED DRAINAGE STRUCTURES)
  - DRAINAGE STRUCTURES

**JJB** JAMES J. BENES & ASSOCIATES, INC.  
 950 Warrenville Road, Suite 101, Lisle, Illinois 60532  
 Tel. (630) 719-7570 • Fax (630) 719-7589

FILE NAME =	USER NAME =	DESIGNED — JDS	REVISED —
		DRAWN — SMP	REVISED —
		CHECKED — JDS	REVISED —
		DATE — 11-24-2014	REVISED —

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>EROSION AND SEDIMENT CONTROL PLAN</b>		
<b>F.A.P. ROUTE 351 (IL ROUTE 7)</b>		
SCALE: 1"=50'	SHEET NO. 3 OF 3 SHEETS	STA. 97+00 TO STA. 125+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	14
				CONTRACT NO. 61A31
ILLINOIS FED. AID PROJECT				

# TRAFFIC SIGNAL LEGEND

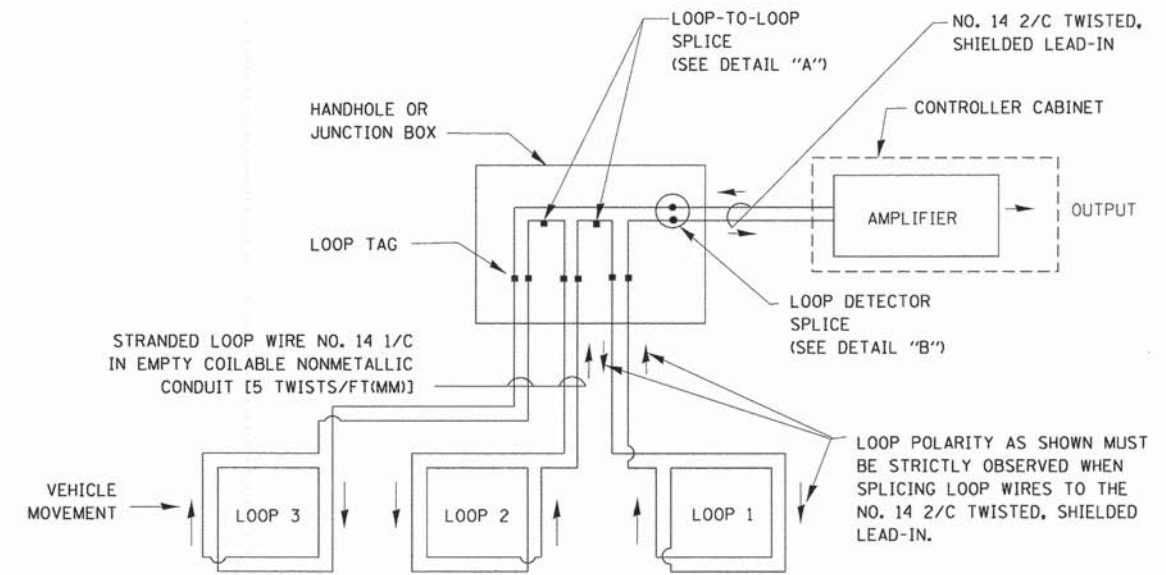
ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE			
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE			
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA			
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED			
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F			
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F			
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F			
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F			
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F			
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED			
SIGNAL POST				REMOVE ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED			
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED			
GUY WIRE				ABANDON ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED			
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				INTERSECTION & SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				SAMPLING (SYSTEM) DETECTOR			
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				QUEUE DETECTOR			
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PREFORMED QUEUE DETECTOR			
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				"RB" INDICATES REFLECTIVE BACKPLATE				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED SAMPLING (SYSTEM) DETECTOR			
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED							
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID							
ILLUMINATED SIGN "NO LEFT TURN"				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER							
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO INTERCONNECT							
DETECTOR LOOP, TYPE I				RADIO REPEATER							
PREFORMED DETECTOR LOOP				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED							
MICROWAVE VEHICLE SENSOR				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)							
VIDEO DETECTION CAMERA											
VIDEO DETECTION ZONE											
PAN, TILT, ZOOM CAMERA											
WIRELESS DETECTOR SENSOR											
WIRELESS ACCESS POINT											

## RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET		
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

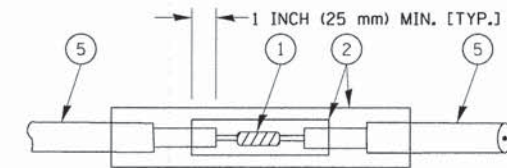
**LOOP DETECTOR NOTES**

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

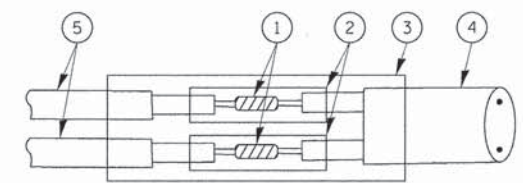


**DETECTOR LOOP WIRING SCHEMATIC**

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm), IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



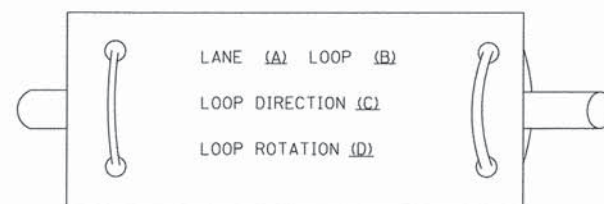
DETAIL "A"  
LOOP-TO-LOOP SPLICE



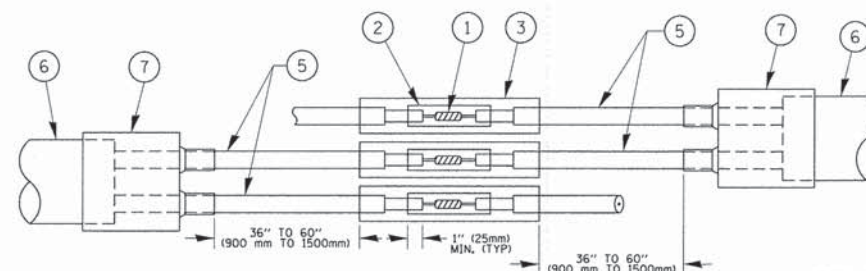
DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**TYPE I LOOP**

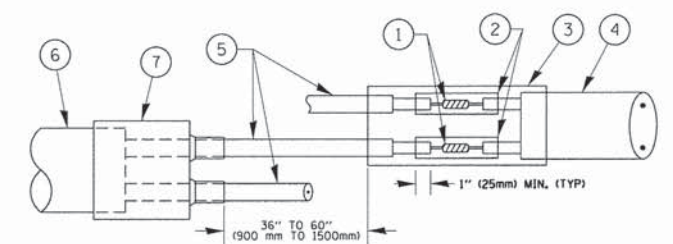
**LOOP LEAD-IN CABLE TAG**



- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



DETAIL "A"  
LOOP-TO-LOOP SPLICE



DETAIL "B"  
LOOP-TO-CONTROLLER SPLICE

**PRE-FORMED LOOP**

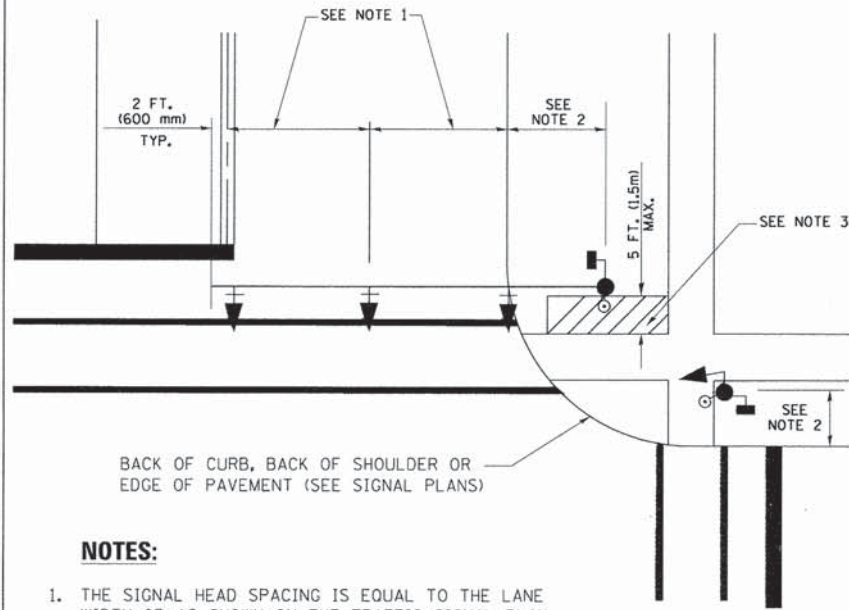
**LOOP DETECTOR SPLICE**

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			F.A.P. RTE. 351	SECTION 10-00074-00-BR	COUNTY WILL	TOTAL SHEETS 51	SHEET NO. 16
al\pw_work\pwsdot\Footemj\d0108315\ts05.dgn	DRAWN - BCK	CHECKED - DAD	REVISED -		SCALE: NONE	SHEET NO. 2 OF 7 SHEETS	STA. TO STA.	<b>TS-05</b>		CONTRACT NO. 61A31		
PLOT SCALE = 50.0000' / in.	DATE - 10-28-09	REVISI						FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
PLOT DATE = 1/13/2014												



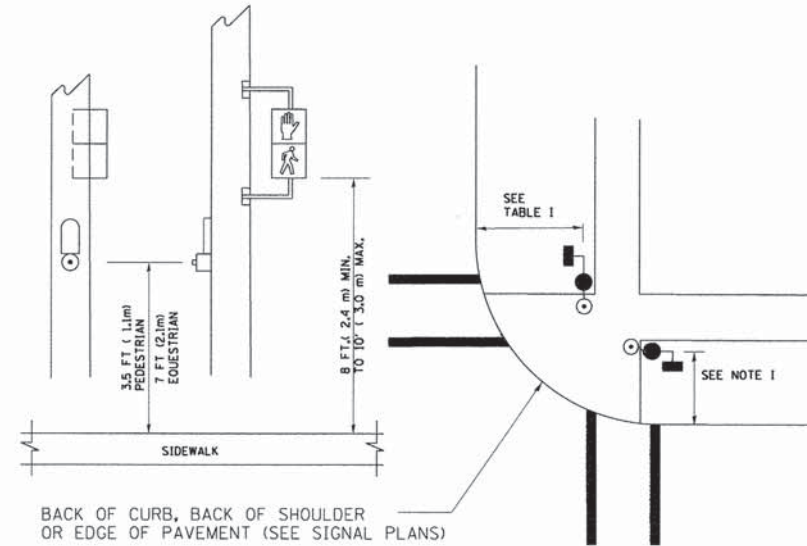
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST  
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR  
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN  
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**NOTES:**

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

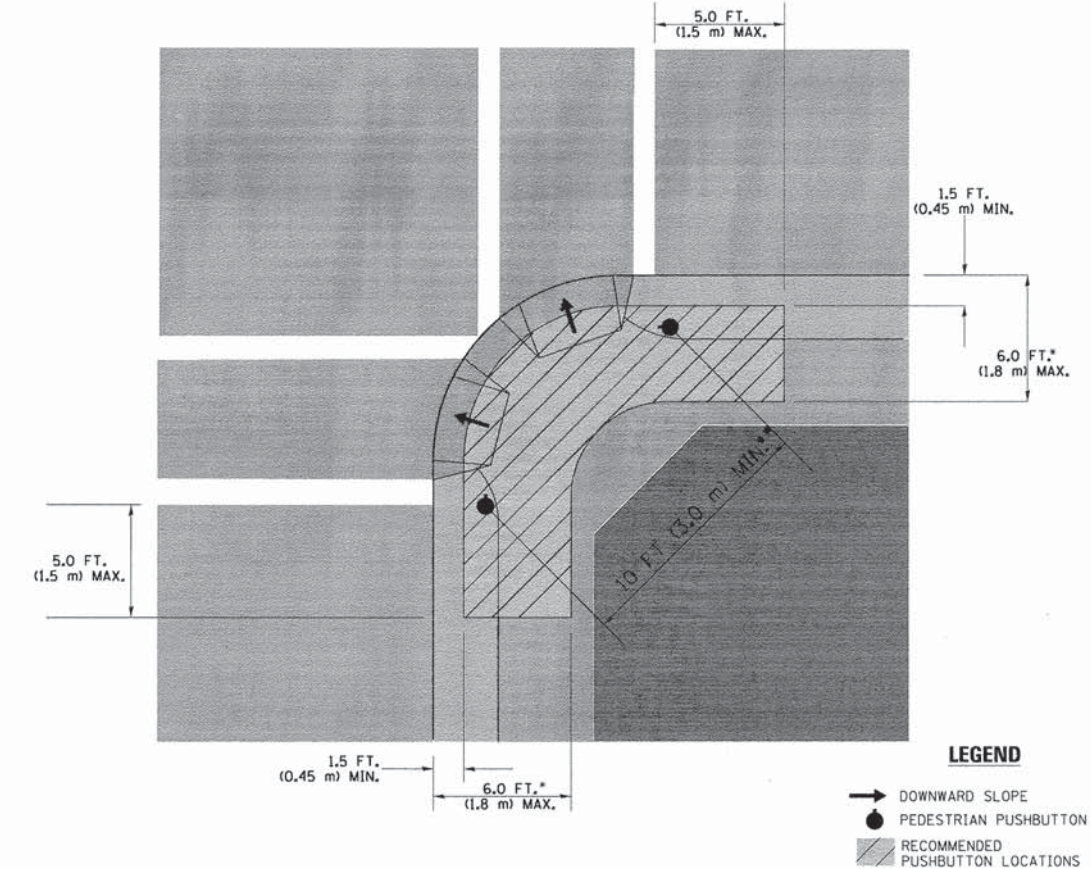
**PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

**RECOMMENDED PUSHBUTTON LOCATIONS**



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

**NOTES:**

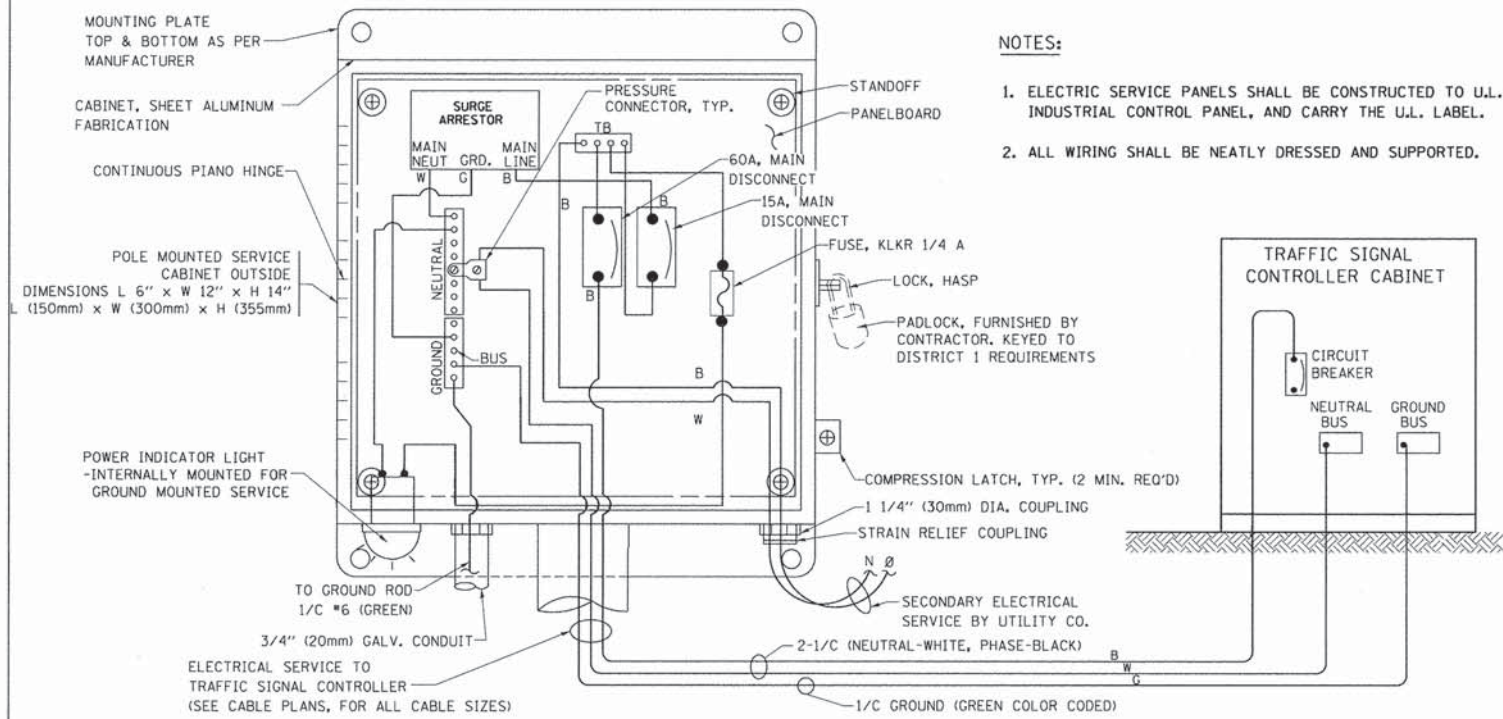
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

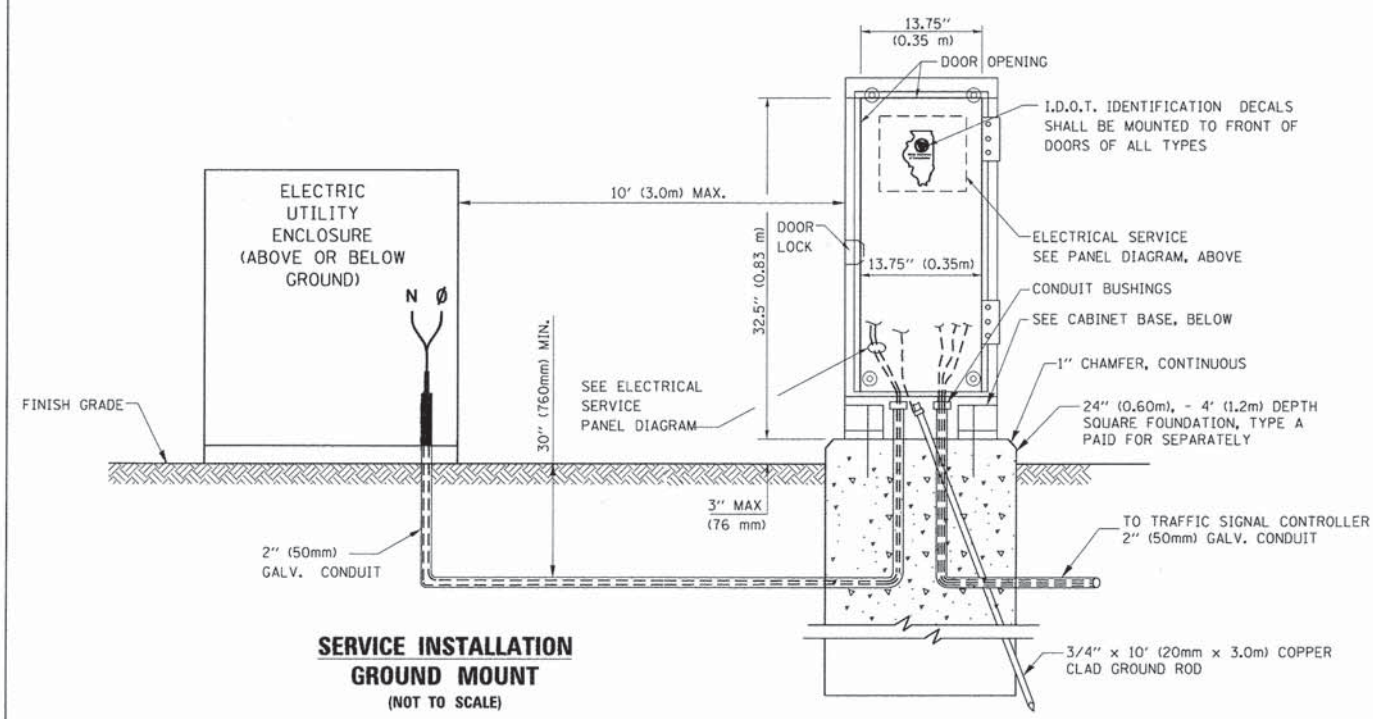
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

**NOTES:**

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

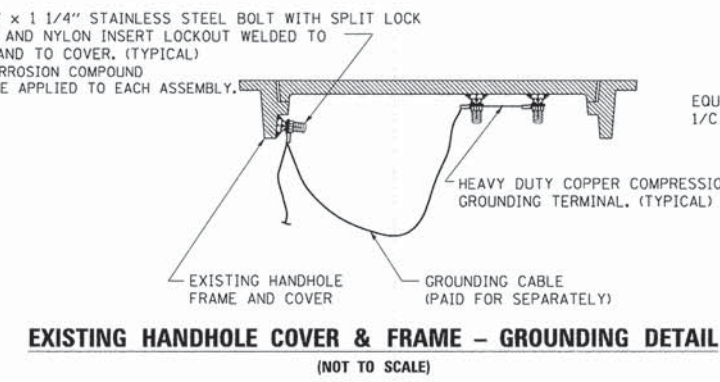


**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)**



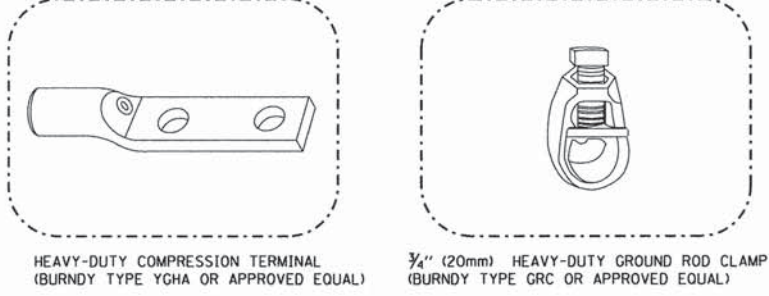
**CABINET - BASE BOLT PATTERN (NOT TO SCALE)**

**HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)**



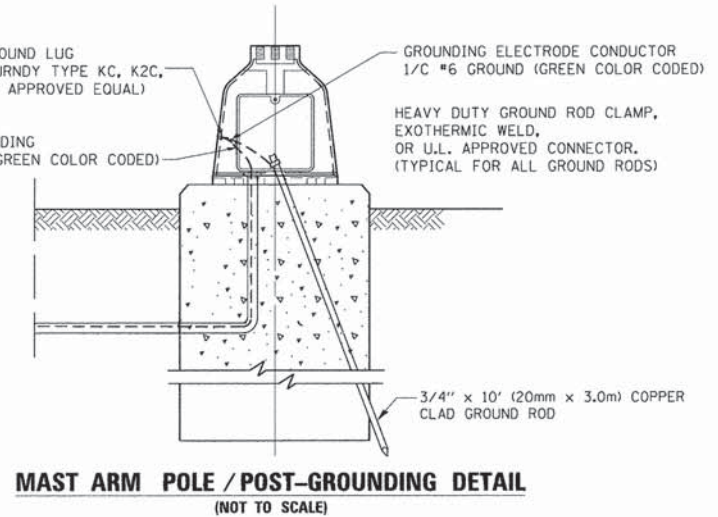
**NOTES: GROUNDING SYSTEM**

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



**NOTES:**

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



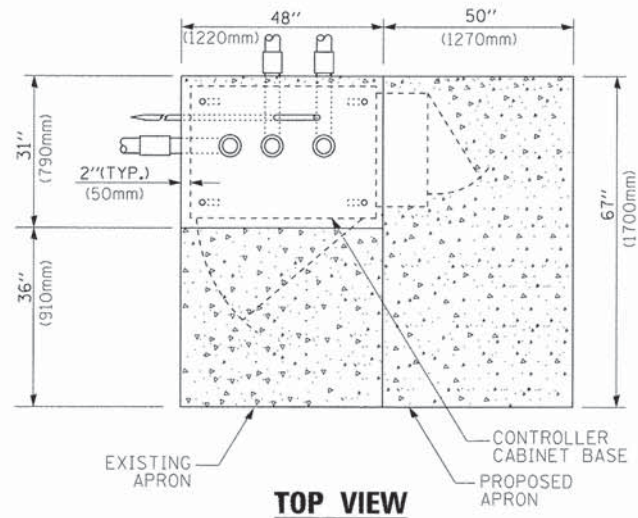
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		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

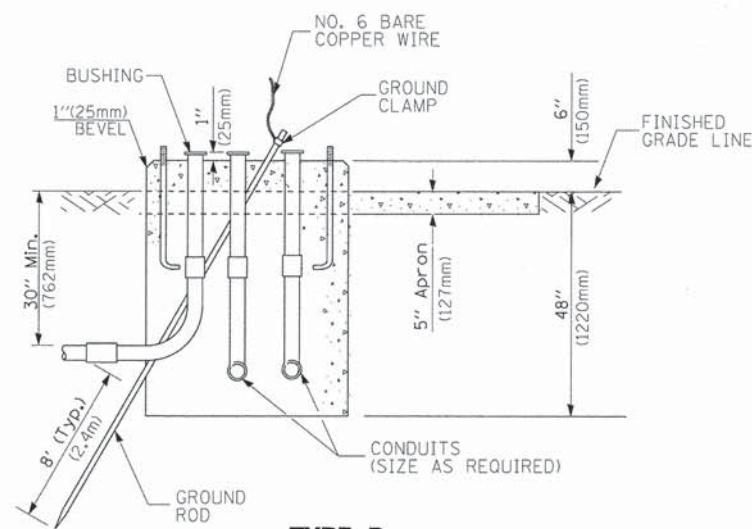
**DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 4 OF 7 SHEETS STA. TO STA.

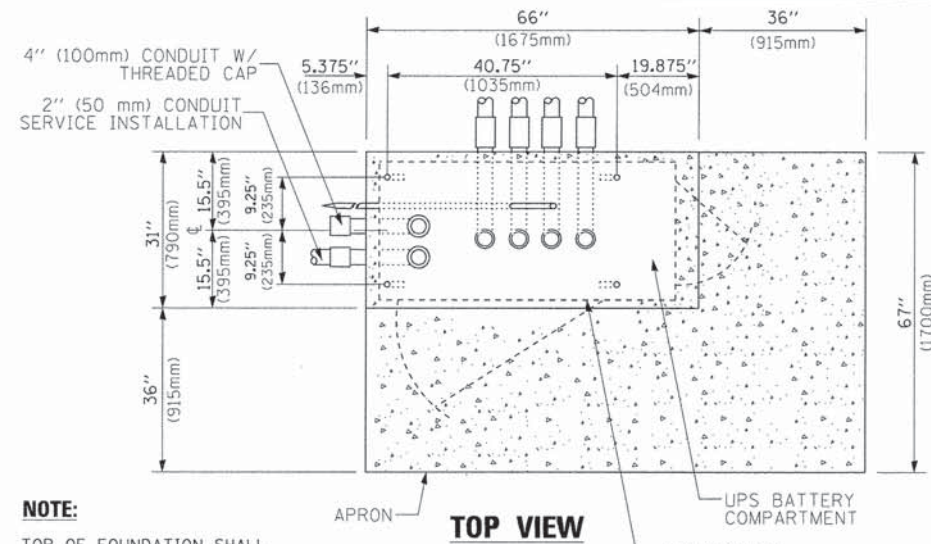
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	18
TS-05		CONTRACT NO. 61A31		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



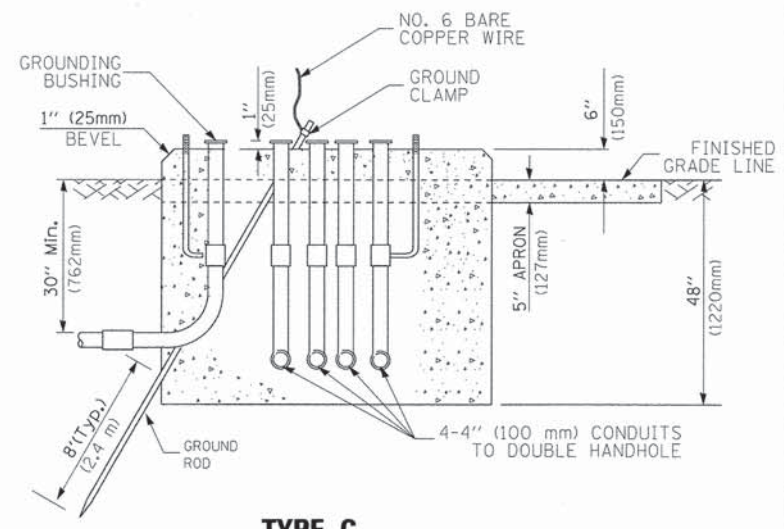
**TOP VIEW**



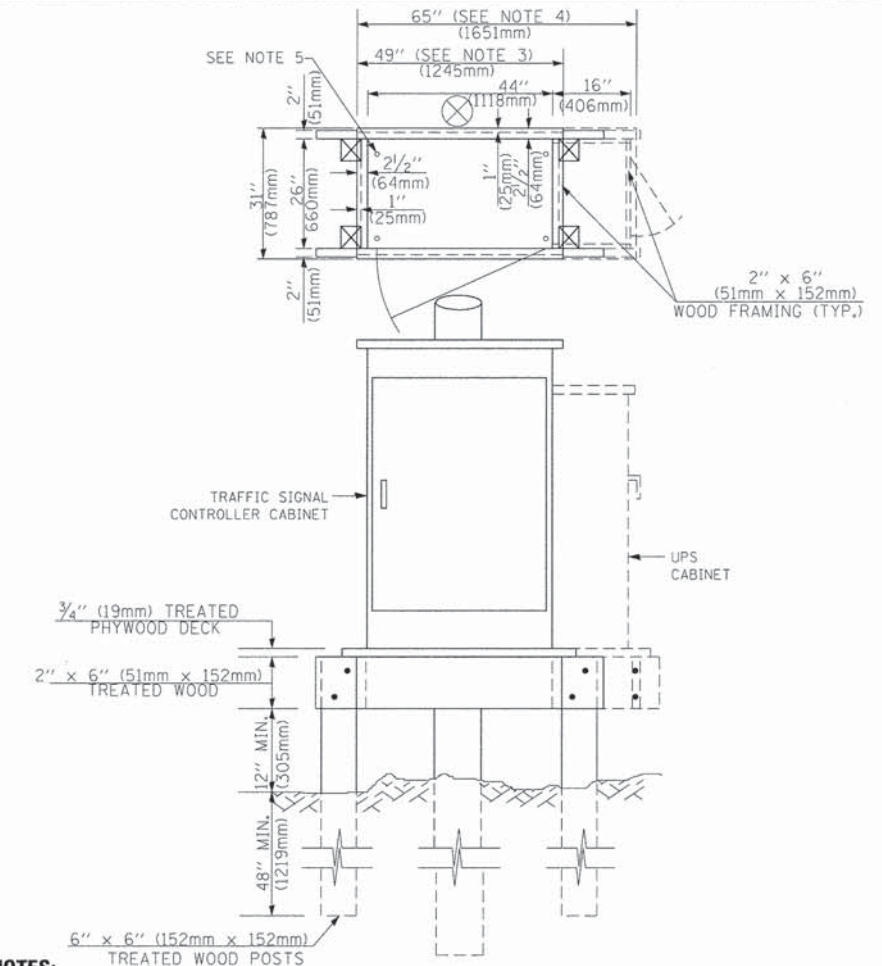
**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**



**TOP VIEW**



**TYPE C  
FOR GROUND MOUNTED  
SUPER P (TYPE IV) AND SUPER R (TYPE V)  
CONTROLLER CABINETS**



**NOTES:**

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

**CABLE SLACK**

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

**VERTICAL CABLE LENGTH**

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

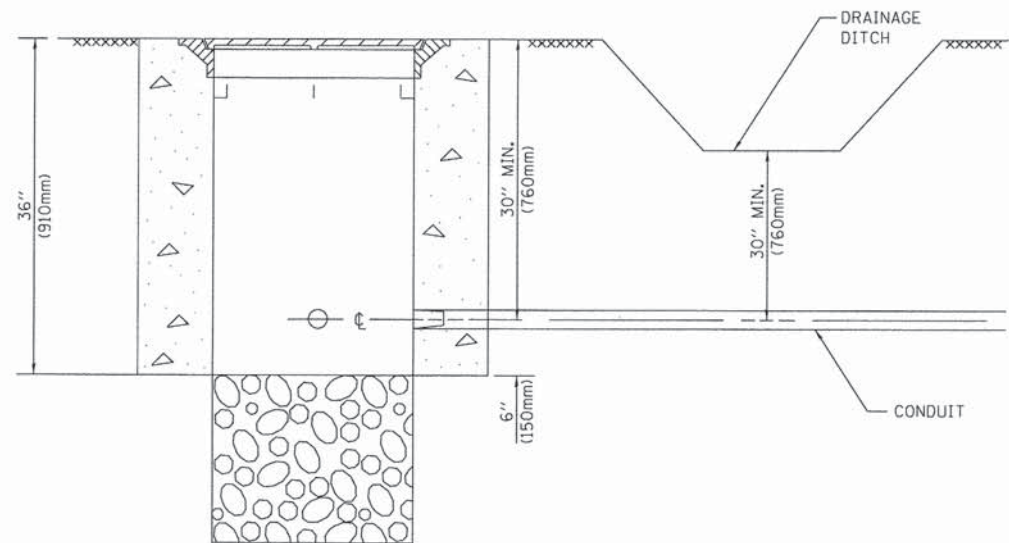
**DEPTH OF FOUNDATION**

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

**NOTES:**

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001.

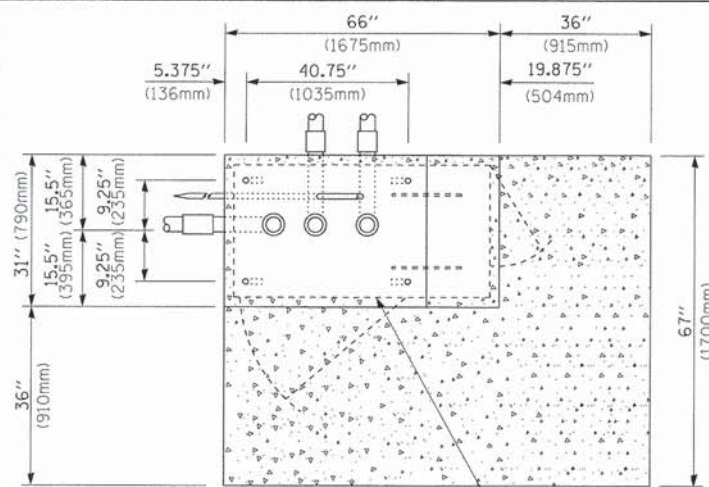
**DEPTH OF MAST ARM FOUNDATIONS, TYPE E**



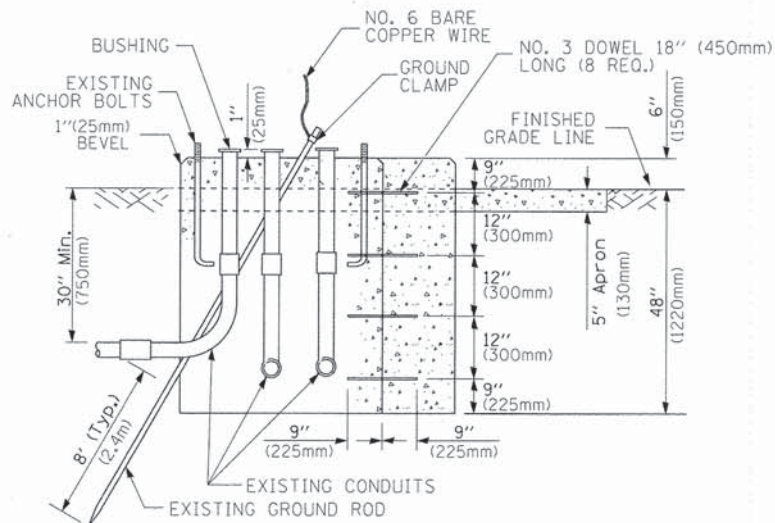
**NOTES:**

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

**HANDHOLE WITH MINIMUM CONDUIT DEPTH**  
(NOT TO SCALE)



**TOP VIEW**  
(NOT TO SCALE)

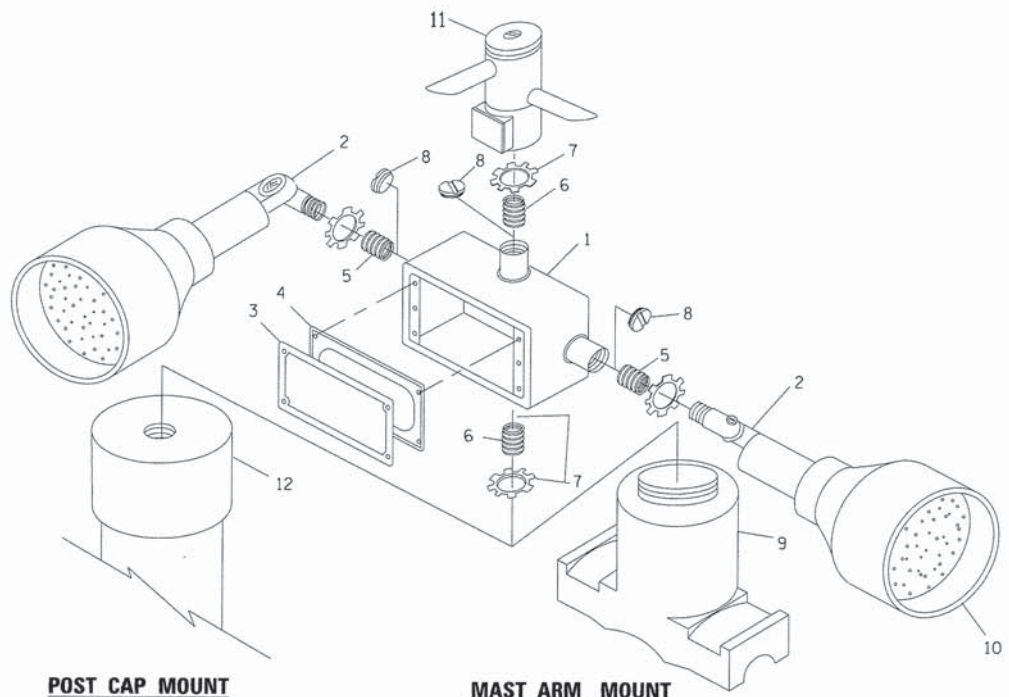


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

**NOTES:**

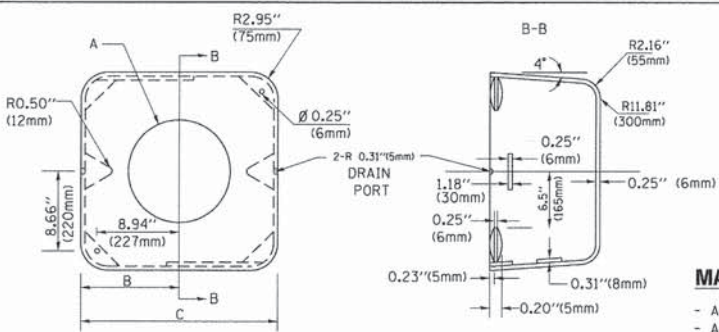
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT  
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



**POST CAP MOUNT**

**MAST ARM MOUNT**

**EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL**



**MATERIAL:**  
- ASTM A36 STEEL  
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

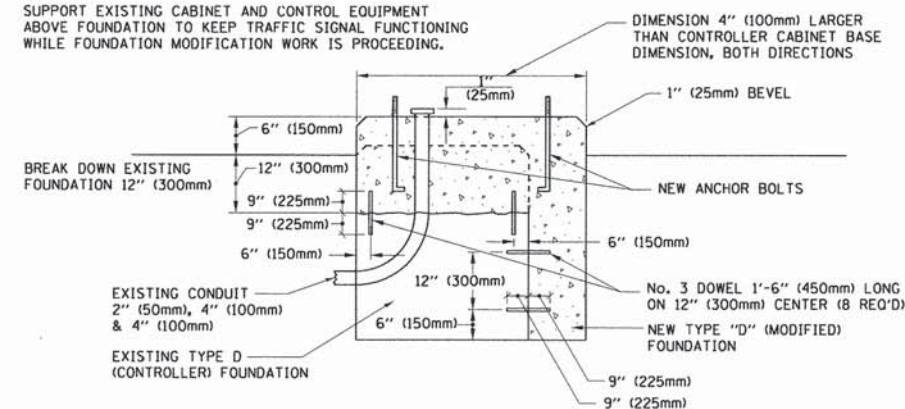
**SHROUD**

**NOTES:**

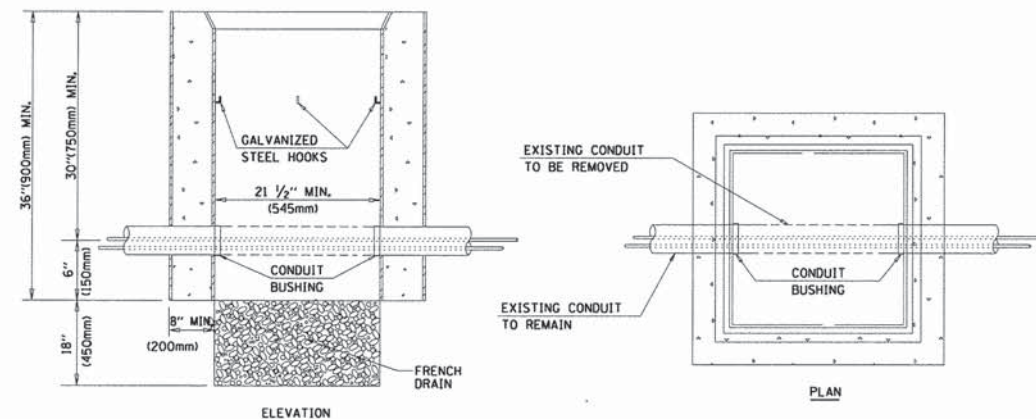
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



**MODIFY EXISTING TYPE "D" FOUNDATION**



**NOTES:**

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

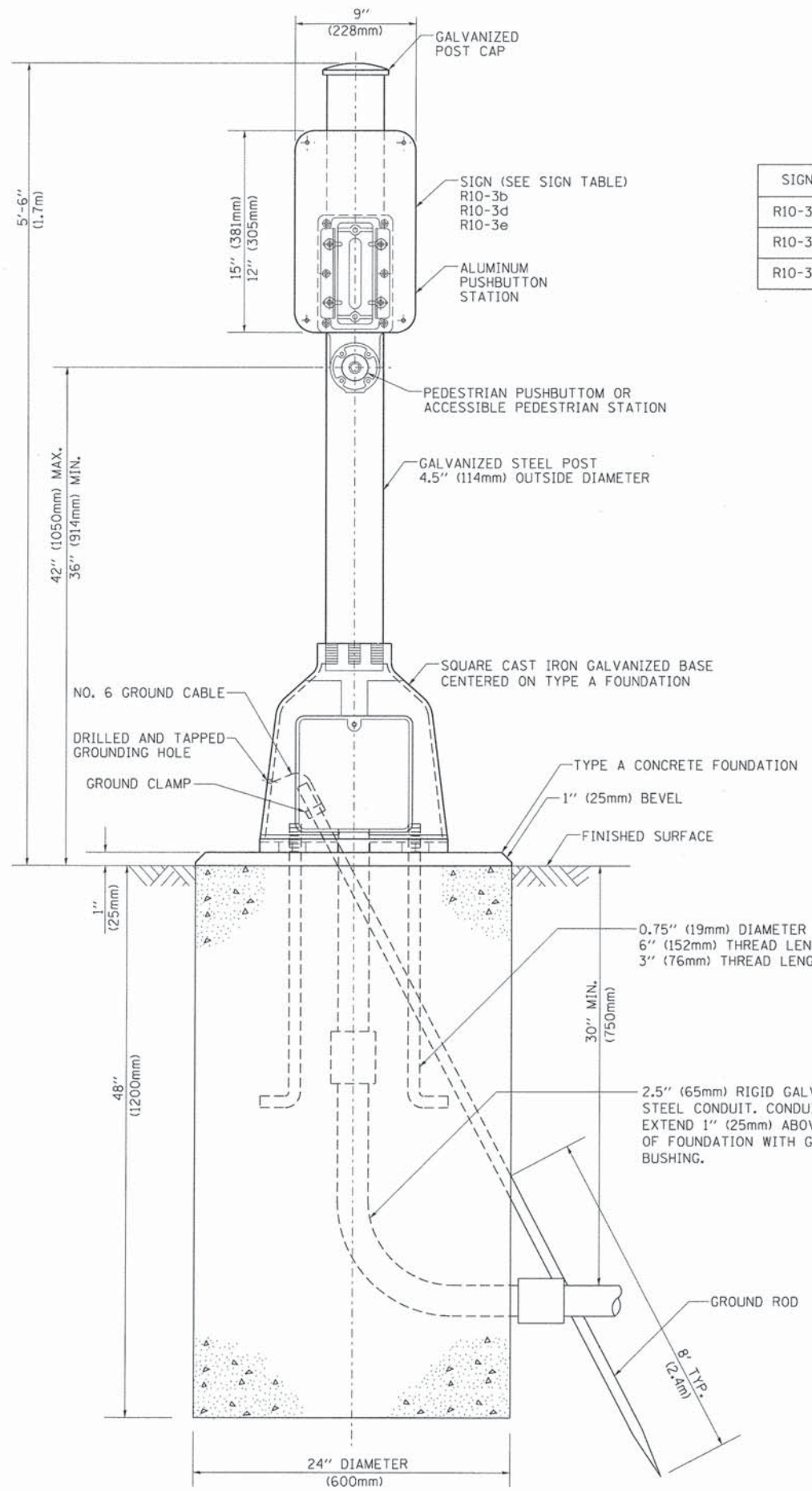
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		PLDT SCALE = 50.0000' / 1"	CHECKED - DAD
		PLDT DATE = 1/13/2014	DATE - 10-28-09

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE**  
**STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

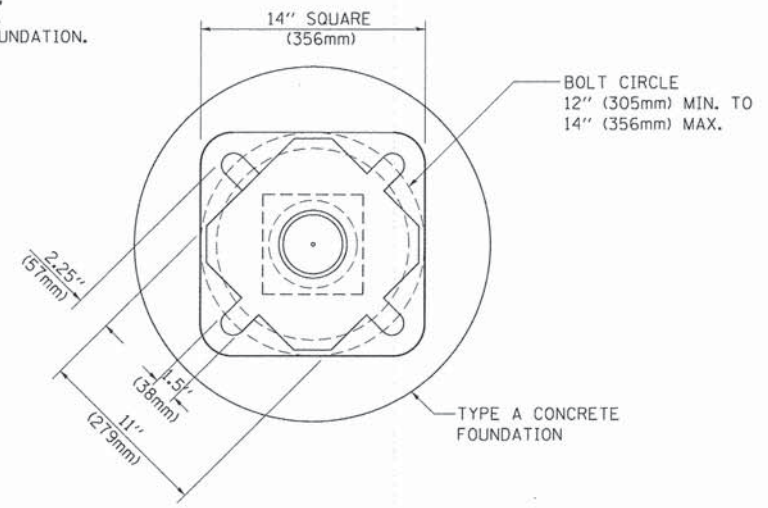
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	20
TS-05		CONTRACT NO. 61A31		
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				



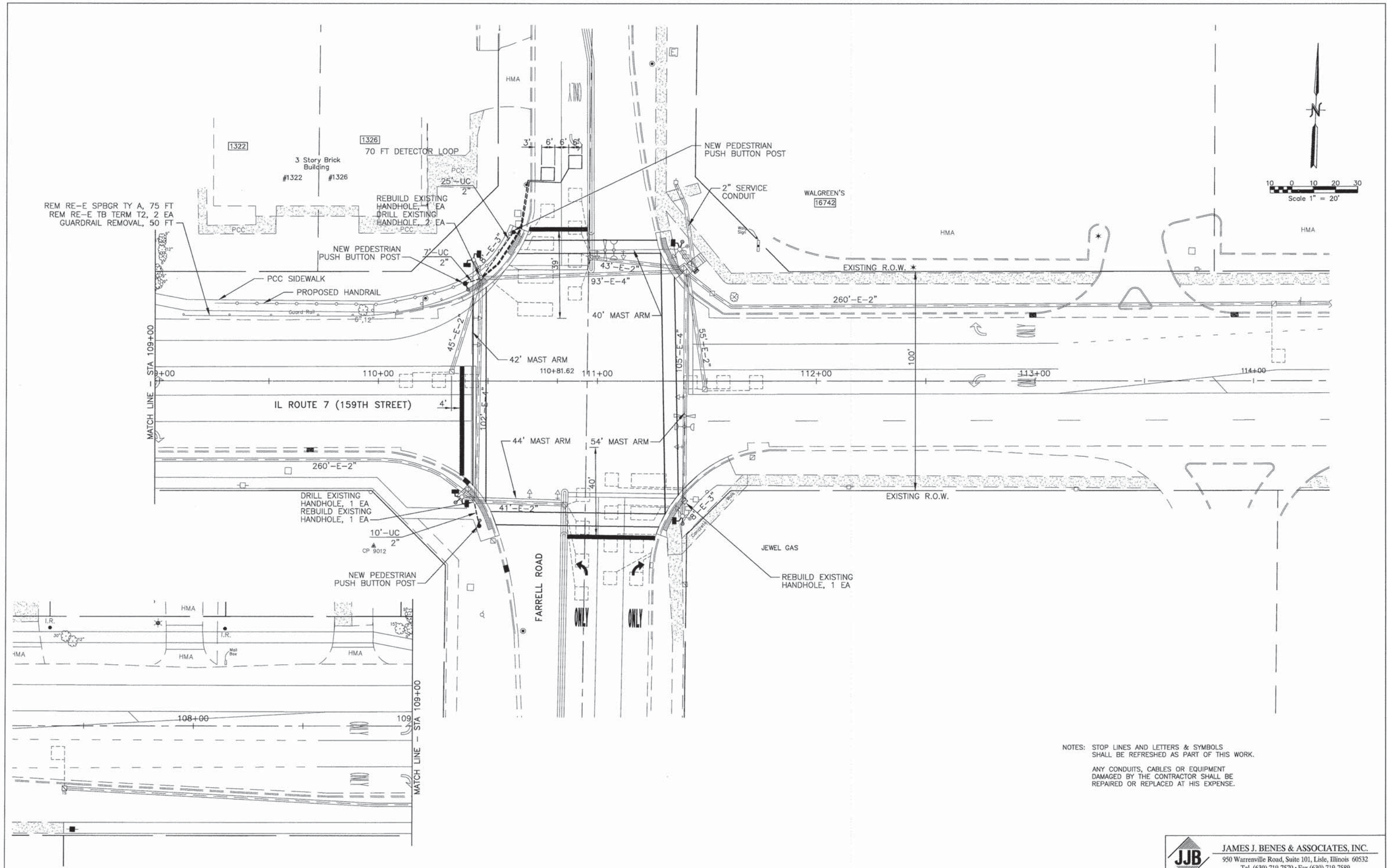
**SIGN TABLE**

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



**BOLT PATTERN**  
**PEDESTRIAN PUSH BUTTON POST, TYPE A**

FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			F.A.P. RTE. 351	SECTION 10-00074-00-BR	COUNTY WILL	TOTAL SHEETS 51	SHEET NO. 21
PLOT SCALE = 50,0000' / 1"	CHECKED - DAD	DATE - 10/1/2012	REVISED -		SCALE: NONE	SHEET NO. 7 OF 7 SHEETS	STA. TO STA.	<b>TS-05</b>		CONTRACT NO. 61A31		
PLOT DATE = 1/13/2014	DATE - 10/1/2012	REVISED -	REVISED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							



NOTES: STOP LINES AND LETTERS & SYMBOLS SHALL BE REFRESHED AS PART OF THIS WORK.  
 ANY CONDUITS, CABLES OR EQUIPMENT DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT HIS EXPENSE.

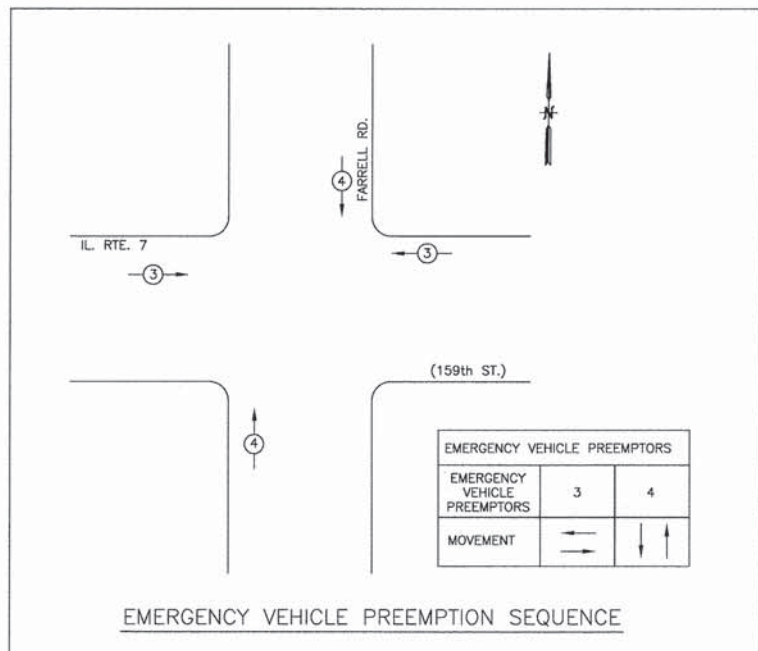
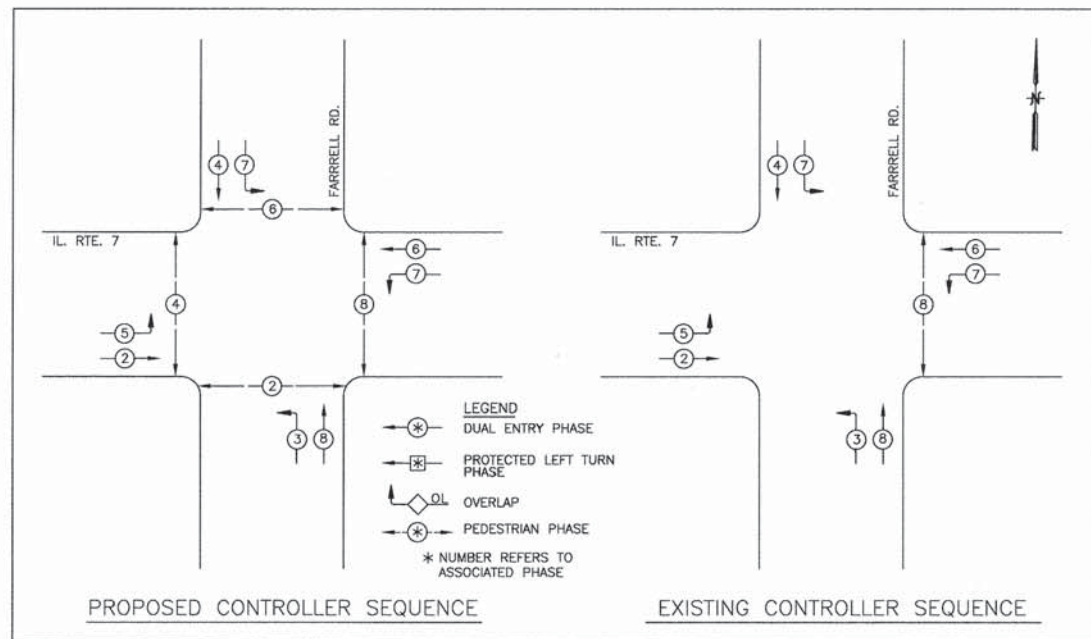
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		CHECKED -- BDH	REVISED --
		DATE -- 11-24-2014	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL PLAN  
IL ROUTE 7 (9th STREET) AT FARRELL ROAD**

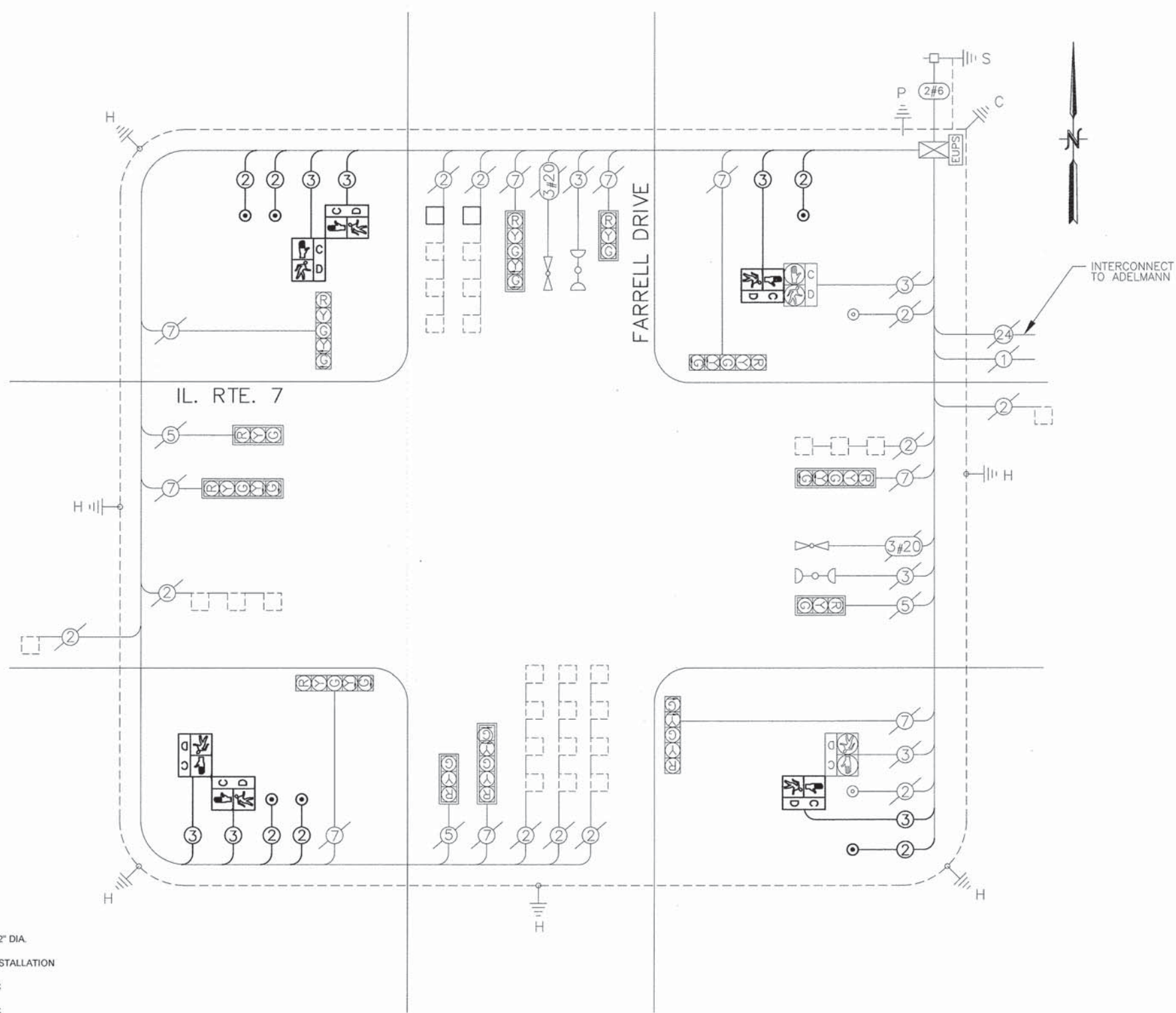
SCALE: 1"=20'    SHEET NO. OF SHEETS    STA. TO STA.

<b>JJB</b>	<b>JAMES J. BENES &amp; ASSOCIATES, INC.</b>			
	950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 • Fax (630) 719-7589			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	22
CONTRACT NO. 61A31				
ILLINOIS FED. AID PROJECT				



I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	-	252	25	0.05	-
FLASHER					0.05
ENERGY COSTS TO:					TOTAL = 541.2
CITY OF LOCKPORT 921 SOUTH STATE STREET LOCKPORT, ILLINOIS 60441					
ENERGY SUPPLY CONTACT: DOLORES KREMNETZER					
PHONE: (815) 724-5214					
COMPANY: COMMONWEALTH EDISON					

QUANTITY	UNIT	ITEM
42	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
972	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
998	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
3	EACH	PEDESTRIAN PUSH BUTTON POST
3	EACH	DRILL EXISTING HANDHOLE
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE BRACKET MOUNTED WITH COUNTDOWN TIMER
2	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE BRACKET MOUNTED WITH COUNTDOWN TIMER
70	FOOT	DETECTOR LOOP, TYPE 1
6	EACH	PEDESTRIAN PUSH BUTTON
1	EACH	MODIFY EXISTING CONTROLLER
3	EACH	REBUILD EXISTING HANDHOLE
2	L SUM	SIGNAL TIMING



IL ROUTE 7 AND FARRELL ROAD

- NOTES:**
- THIS IS A SYSTEM GROUND THAT SHALL INTERCONNECT ALL GROUND RODS WITH NO. 6 1/C COPPER AWG.
  - THE NEUTRAL AND GROUND SHALL BE TIED AT THE SERVICE INSTALLATION, BUT SHALL BE SEPARATED AT THE TRAFFIC SIGNAL CABINET.
  - NEW PUSH BUTTONS TO MATCH EXISTING (POLARA)
  - CONTROLLER TYPE: ECONOLITE

**JJB** JAMES J. BENES & ASSOCIATES, INC.  
 950 Warrenville Road, Suite 101, Lisle, Illinois 60532  
 Tel. (630) 719-7570 • Fax (630) 719-7589

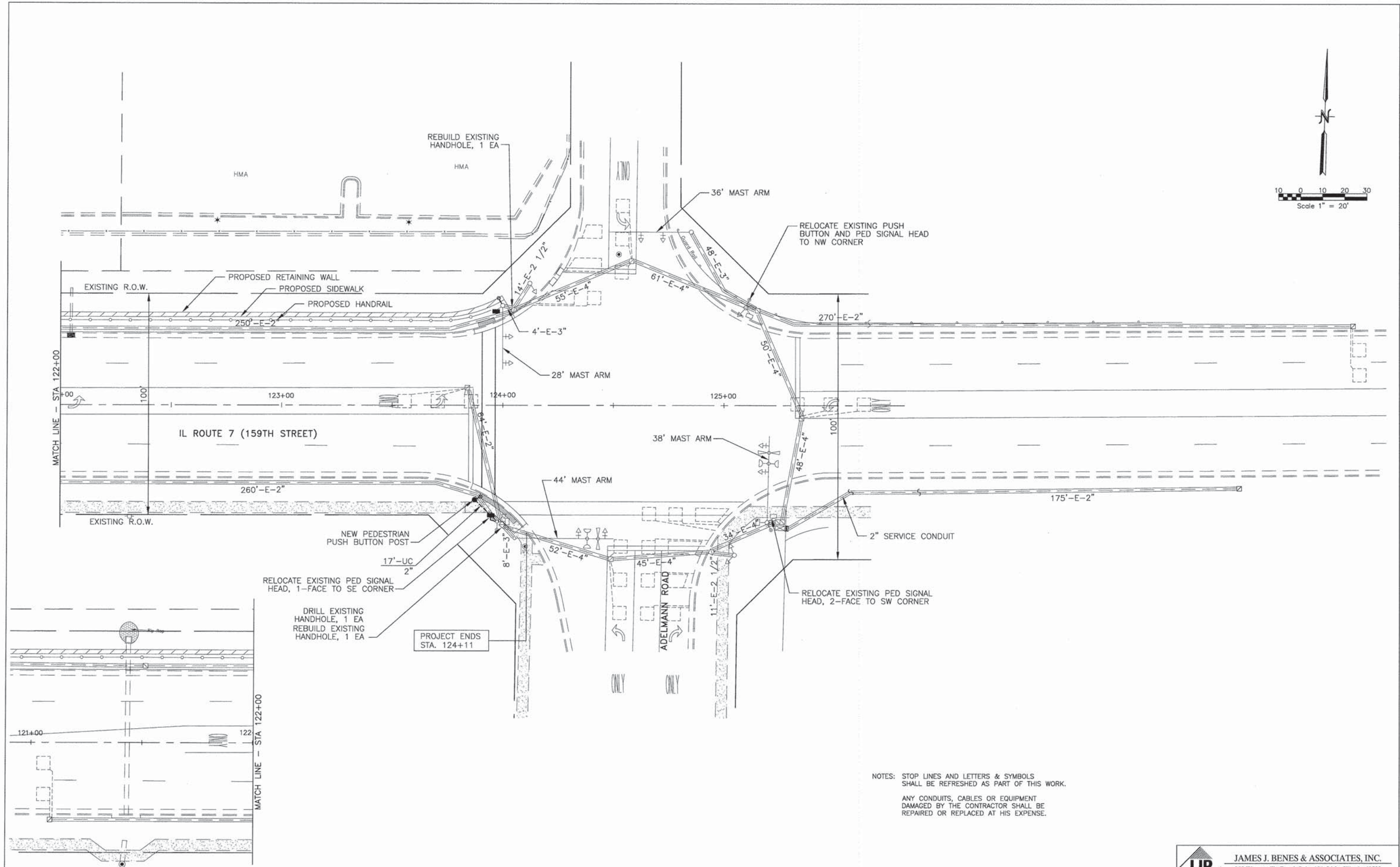
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		DRAWN -- TLA	REVISED --
		CHECKED -- SJG	REVISED --
		DATE -- 11-24-2014	REVISED --

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN  
 IL ROUTE 7 (9TH STREET) AT FARRELL ROAD

SCALE: NTS      SHEET NO. OF SHEETS      STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	23
				CONTRACT NO. 61A31
ILLINOIS FED. AID PROJECT				



NOTES: STOP LINES AND LETTERS & SYMBOLS SHALL BE REFRESHED AS PART OF THIS WORK.  
 ANY CONDUITS, CABLES OR EQUIPMENT DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT HIS EXPENSE.

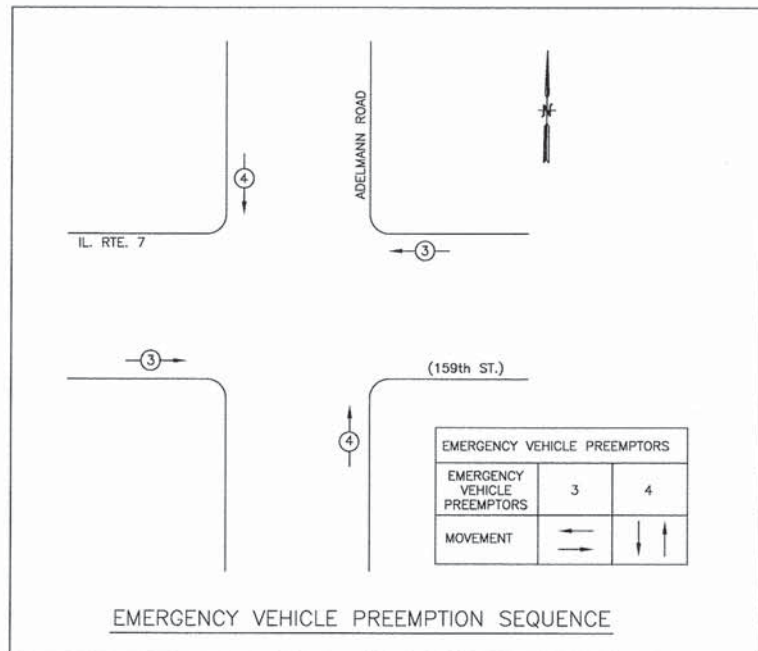
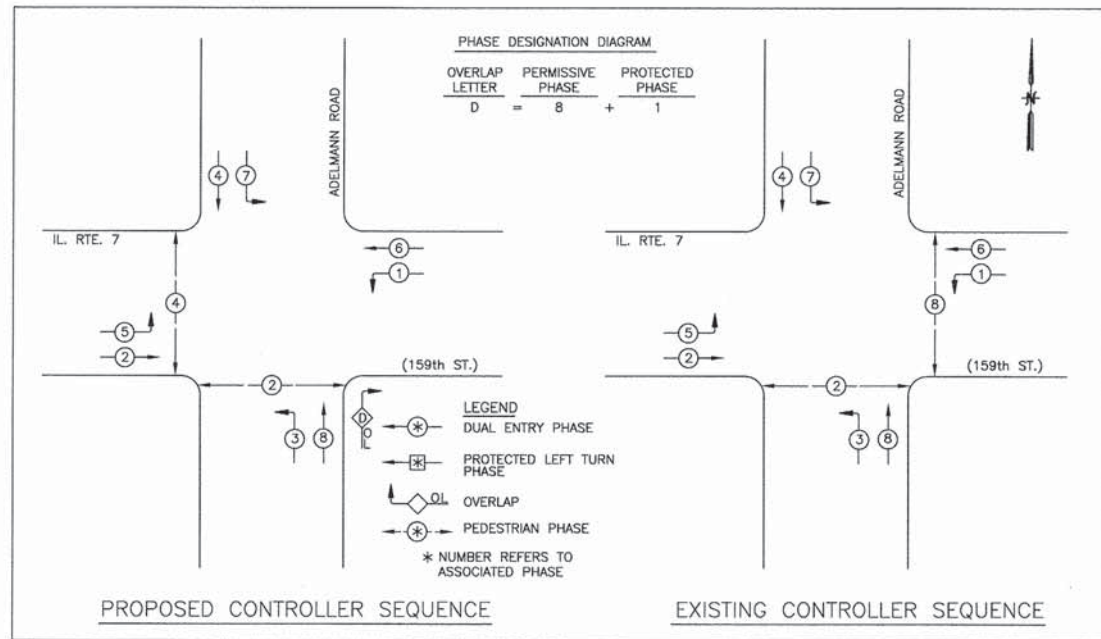
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		CHECKED - JDS	REVISED -
		DATE - 11-24-2014	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL PLAN  
 IL ROUTE 7 (9th STREET) AT ADELMANN ROAD**

	<b>JAMES J. BENES &amp; ASSOCIATES, INC.</b> 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 • Fax (630) 719-7589			
	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
351	10-00074-00-BR	WILL	51	24
CONTRACT NO. 61A31				
ILLINOIS FED. AID PROJECT				





I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

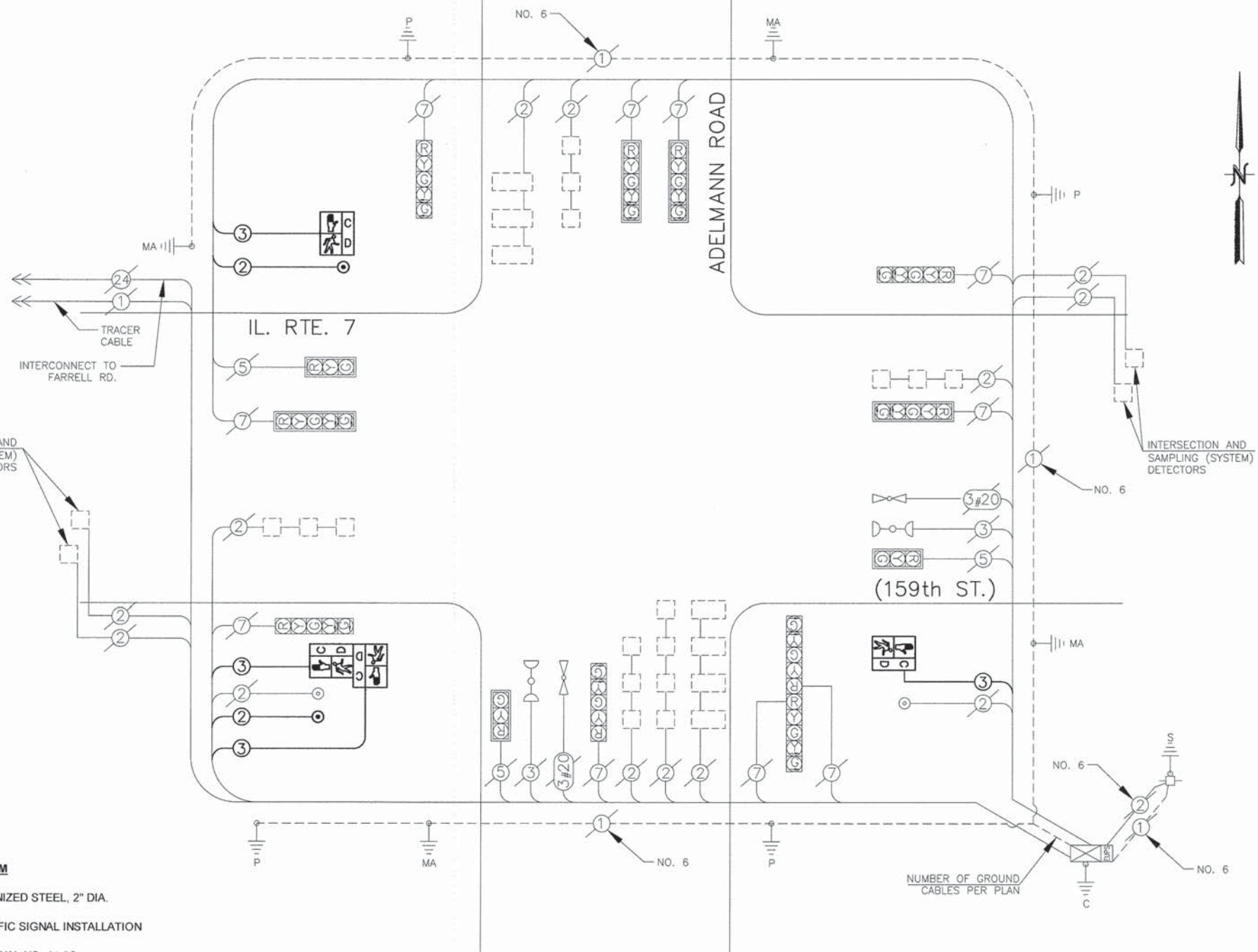
TYPE	NO. LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	13	135	17	0.50	110.50
(YELLOW)	13	135	25	0.25	81.25
(GREEN)	13	135	15	0.25	48.75
ARROW	20	135	12	0.10	24.00
PED. SIGNAL	4	90	25	1.00	100.00
CONTROLLER	-	100	100	1.00	100.00
ILLUM. SIGN	-	252	25	0.05	-
FLASHER				0.05	
TOTAL =					464.50

ENERGY COSTS TO:  
 CITY OF LOCKPORT  
 921 SOUTH STATE STREET  
 LOCKPORT, ILLINOIS 60441

ENERGY SUPPLY CONTACT: DOLORES KREMNETZER  
 PHONE: (815) 724-5214  
 COMPANY: COMMONWEALTH EDISON

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
17	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
481	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
482	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
1	EACH	PEDESTRIAN PUSH BUTTON POST
1	EACH	DRILL EXISTING HANDHOLE
1	EACH	PEDESTRIAN PUSH BUTTON
4	EACH	RELOCATE PEDESTRIAN HEAD
1	EACH	RELOCATE PEDESTRIAN PUSH-BUTTON
1	EACH	MODIFY EXISTING CONTROLLER
310	FOOT	REMOVE CABLE FROM CONDUIT
2	EACH	REBUILD EXISTING HANDHOLE



IL ROUTE 7 AND ADELMANN ROAD

CONTROLLER TYPE: ECONOLITE

**JJB** JAMES J. BENES & ASSOCIATES, INC.  
 950 Warrenville Road, Suite 101, Lisle, Illinois 60532  
 Tel. (630) 719-7570 · Fax (630) 719-7589

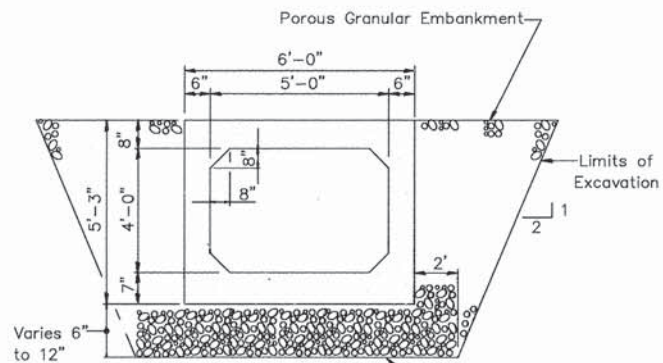
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		CHECKED — SJG	REVISED —
		DATE — 11-24-2014	REVISED —

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN**  
**IL ROUTE 7 (9TH STREET) AT ADELMANN ROAD**

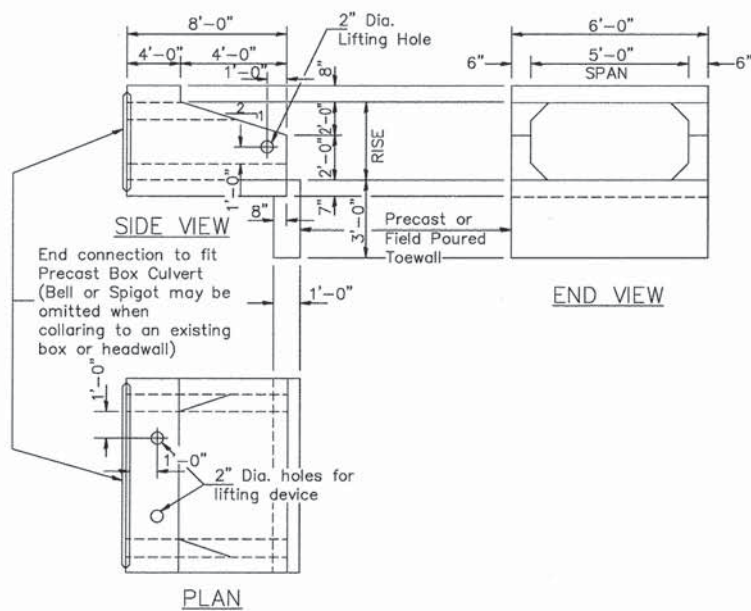
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	DuPAGE	51	25
				CONTRACT NO. 61A31
ILLINOIS FED. AID PROJECT				



Bedding to be Compacted Porous Granular Embankment CA-5 or CA-7. Bedding cost to be Included in Precast Concrete Box Culvert

**SECTION THRU BARREL**  
(Precast)  
AASHTO Designation: M273  
ASTM Designation: C850



PRECAST BOX CULVERT END SECTION

IL ROUTE 7 (9TH STREET)  
PRECAST BOX CULVERT & END SECTION  
DETAILS

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Box Culvert End Sections	Each	1
Precast Concrete Box Culvert 5'x4'	Foot	17

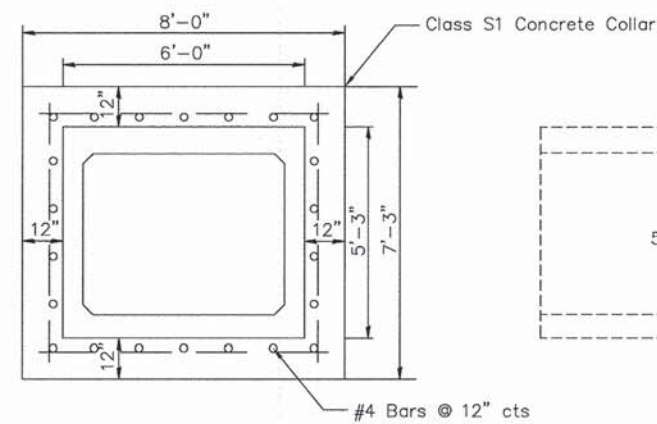
**GENERAL NOTES**

Box Culvert End Sections shall conform to the requirements of article 540.06 of the Standard Specifications and the applicable requirements of AASHTO M273.

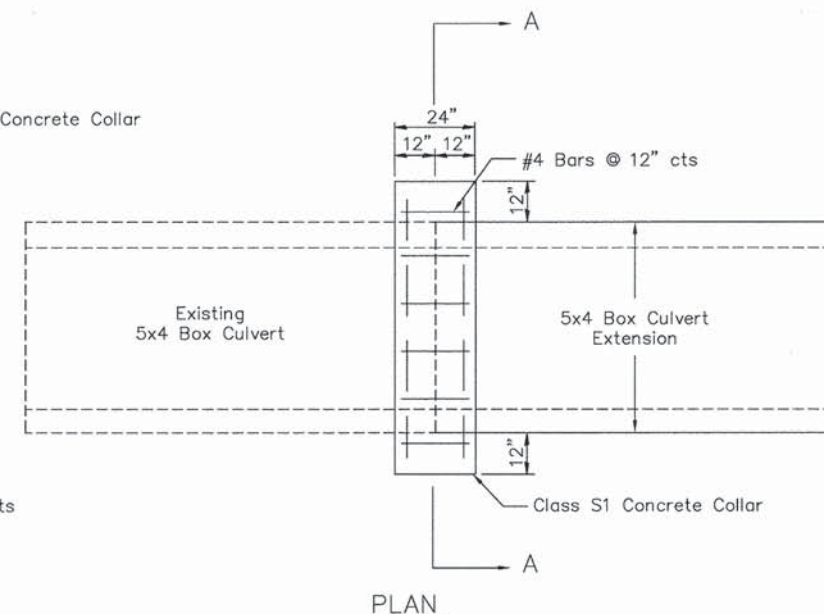
The minimum concrete strength shall be 5,000 psi.

Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.

Reinforcement Bars shall conform to the requirements of AASHTO M-31M, M-42M or M-53M, Grade 420.



SECTION A-A



PLAN

CONCRETE COLLAR DETAIL  
NTS

- NOTES:
1. CLASS S1 CONCRETE SHALL BE USED THROUGHOUT.
  2. WHEN CONCRETE COLLARS ARE USED TO CONNECT PIPES OF DIFFERENT OUTSIDE DIAMETERS, THE CONCRETE COLLAR SHALL BE FORMED USING THE LARGEST OUTSIDE DIAMETER.
  3. CONTRACTOR SHALL SAW CUT THE EXISTING BOX CULVERT TO PROVIDE A SQUARE BUTT JOINT BETWEEN EXISTING AND PROPOSED SECTIONS.
  4. REINFORCEMENT STEEL SHALL BE INCLUDED IN THE COST OF CONCRETE COLLAR.

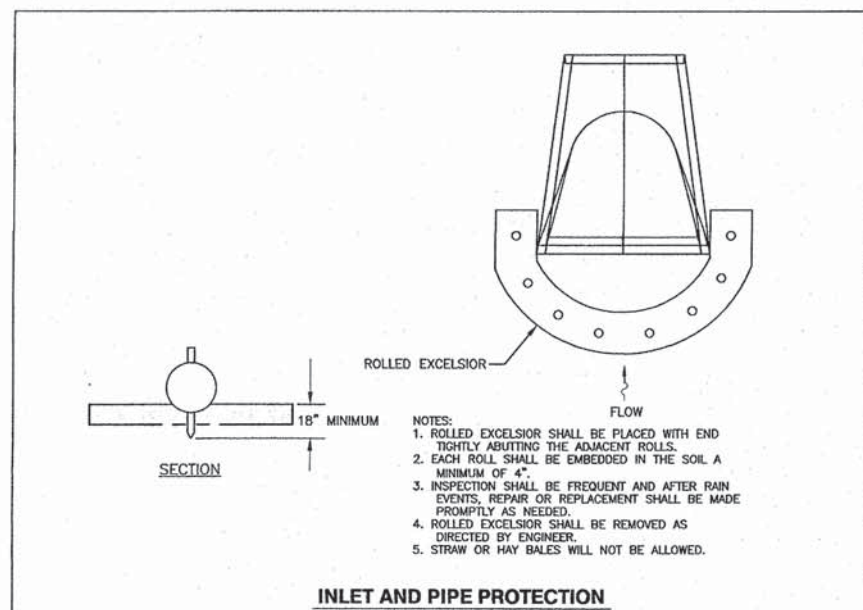
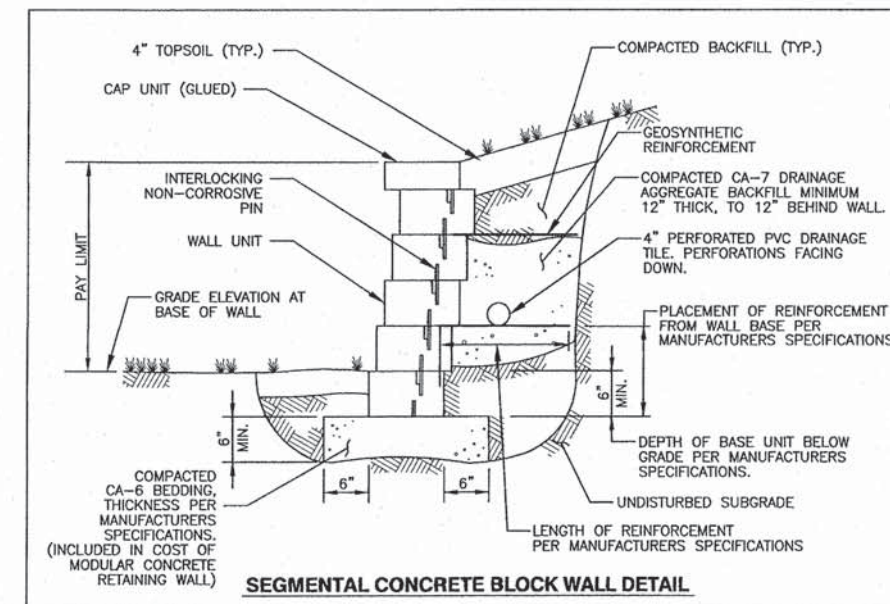
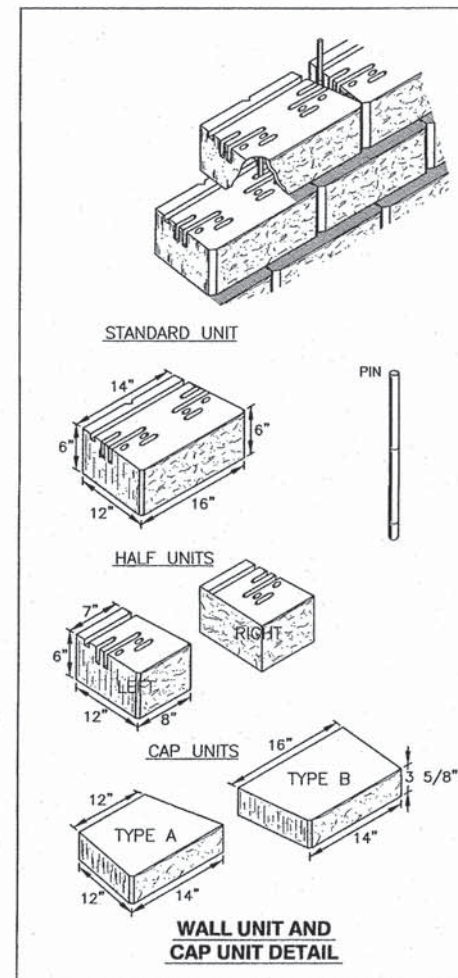
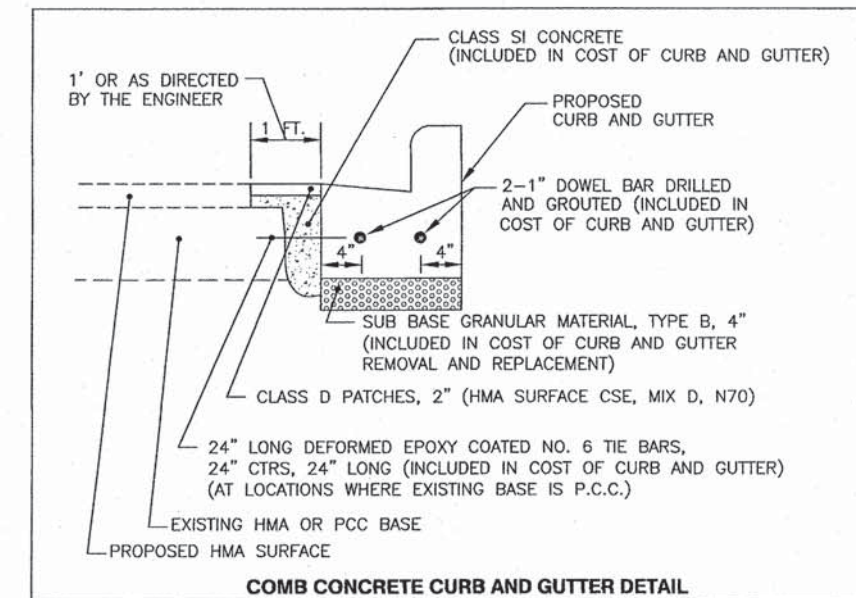
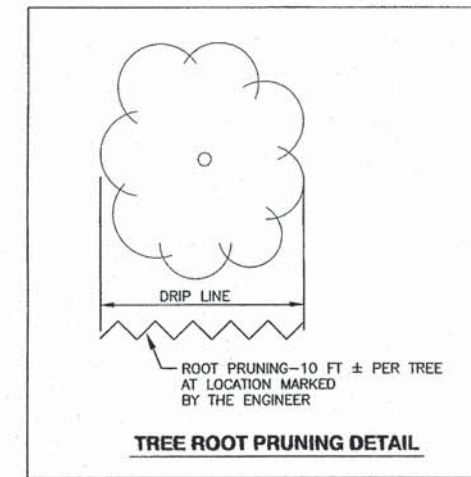
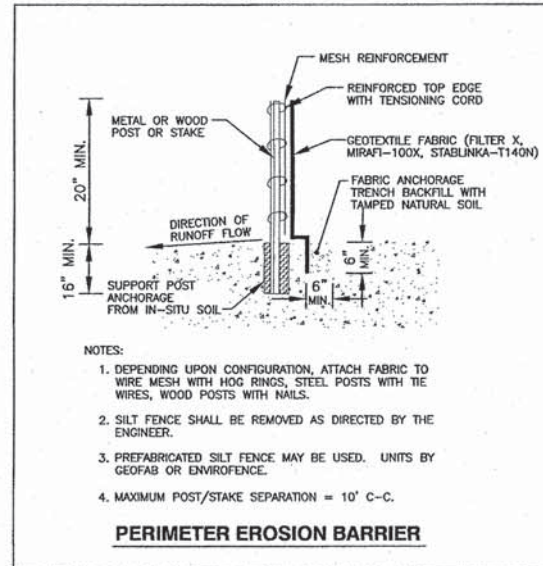
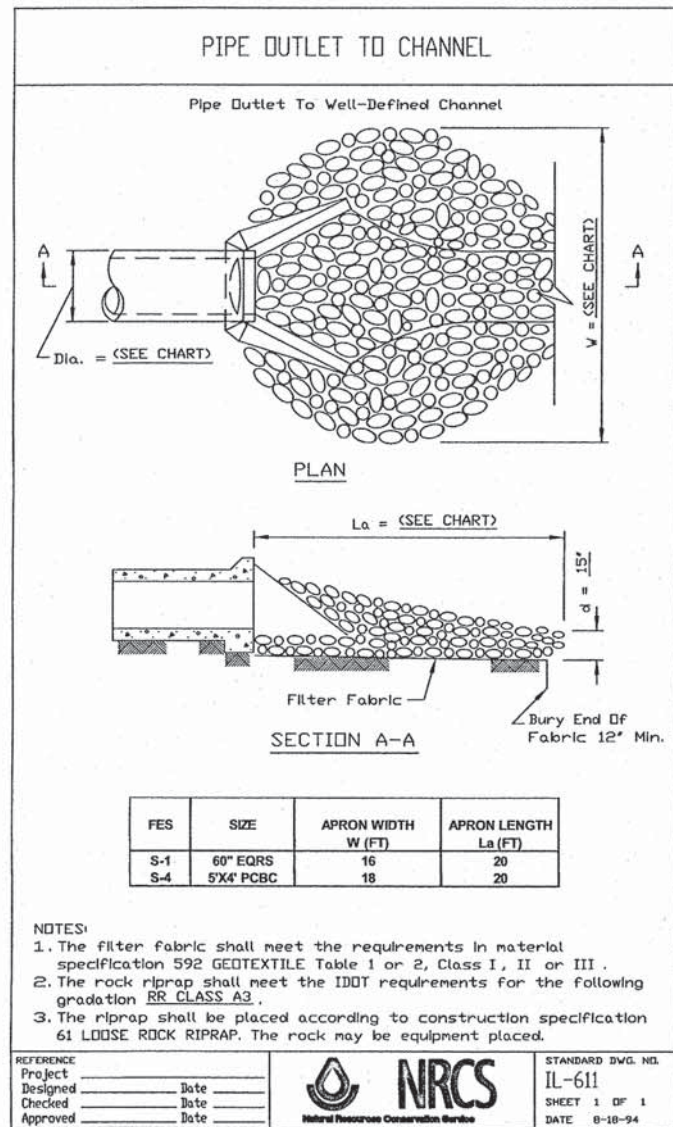
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		CHECKED -- BDH	REVISED --
		DATE -- 11-24-2014	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS  
F.A.P. ROUTE 351 (IL ROUTE 7)

SCALE: NONE SHEET NO. OF SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

<p>JAMES J. BENES &amp; ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 • Fax (630) 719-7589</p>				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	26
			CONTRACT NO. 61A31	
ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME =	DESIGNED — BDH	REVISED —
		DRAWN — SMP	REVISED —
		CHECKED — BDH	REVISED —
		DATE — 11-24-2014	REVISED —

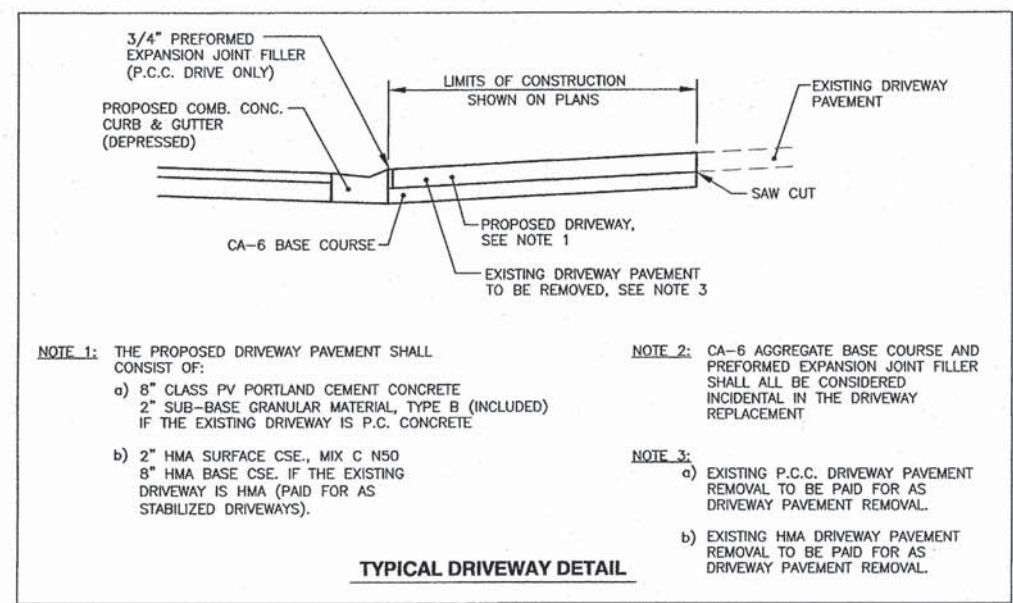
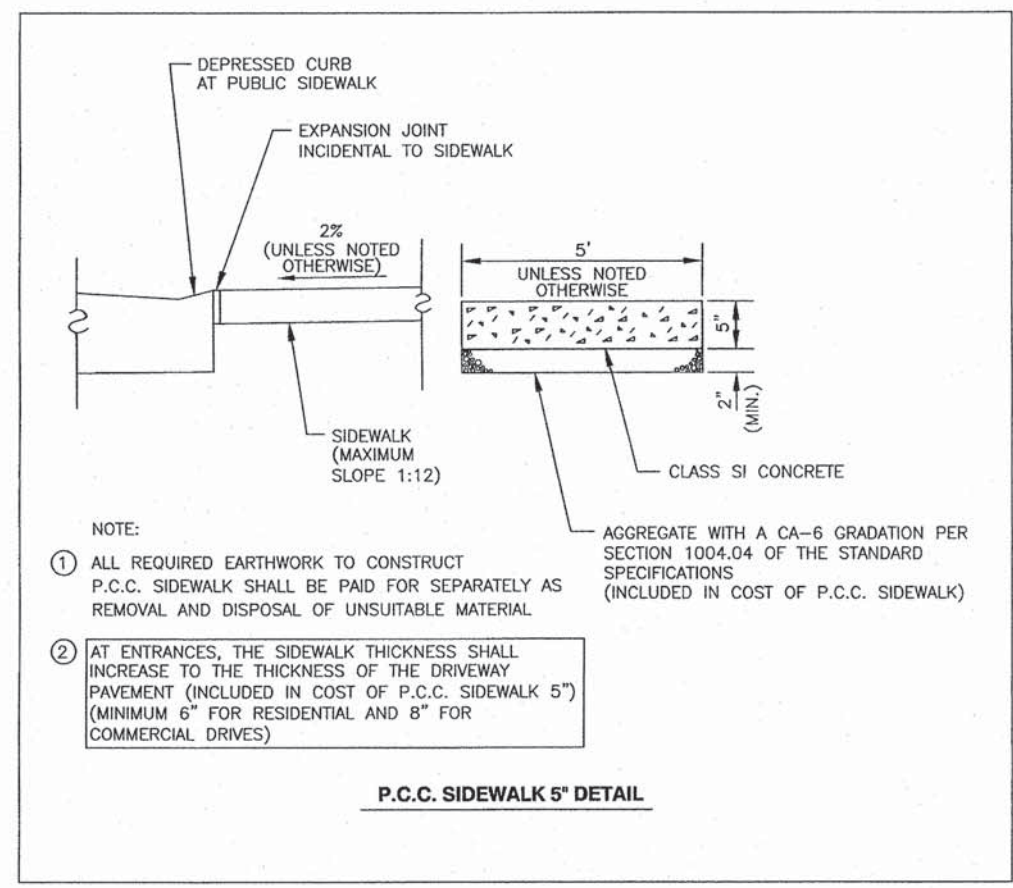
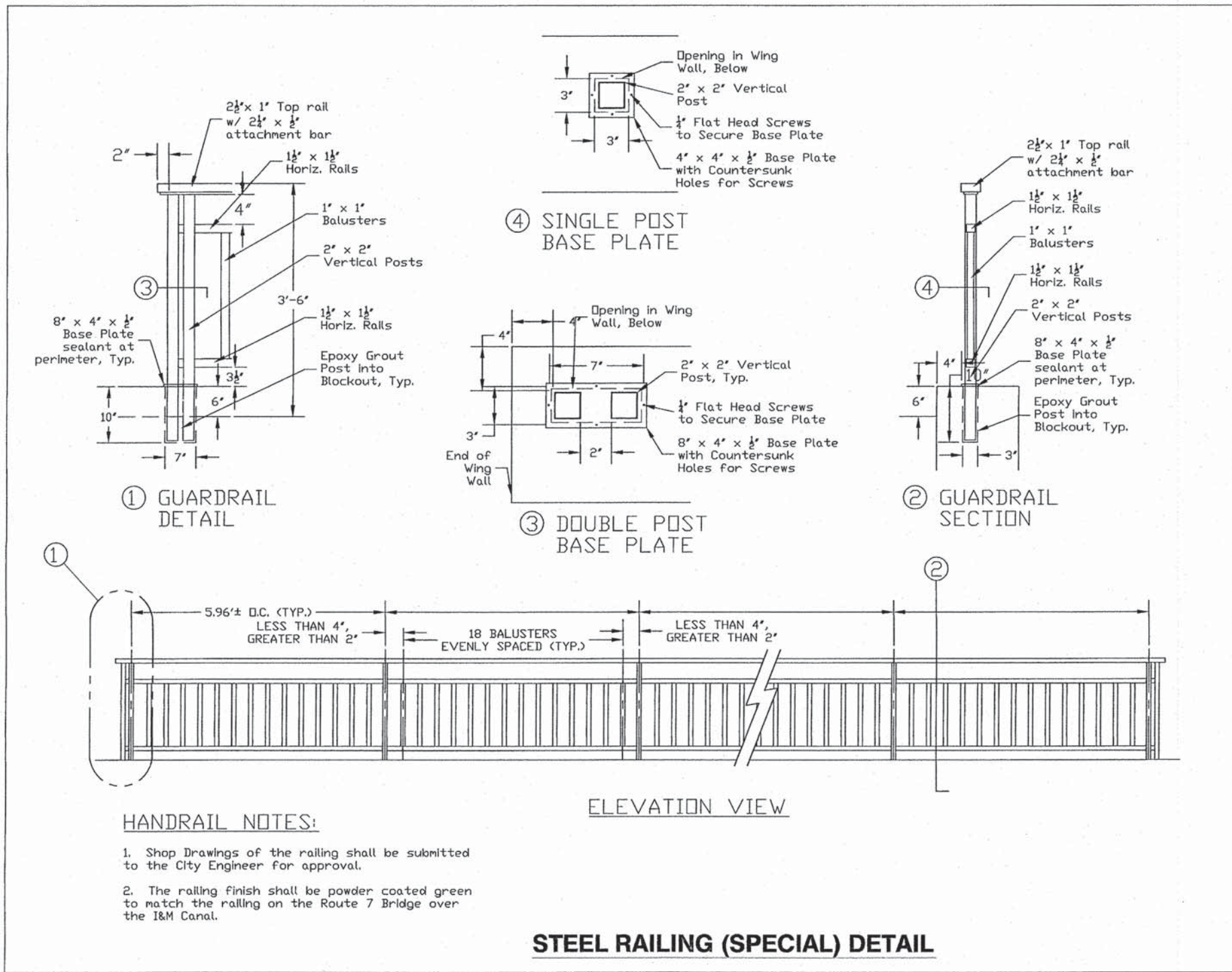
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CONSTRUCTION DETAILS</b>		
<b>F.A.P. ROUTE 351 (IL ROUTE 7)</b>		
SCALE: NONE	SHEET NO. OF SHEETS	STA. _____ TO STA. _____

**JJB** JAMES J. BENES & ASSOCIATES, INC.  
950 Warrenville Road, Suite 101, Lisle, Illinois 60532  
Tel. (630) 719-7570 • Fax (630) 719-7589

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	27
CONTRACT NO. 61A31				

ILLINOIS FED. AID PROJECT



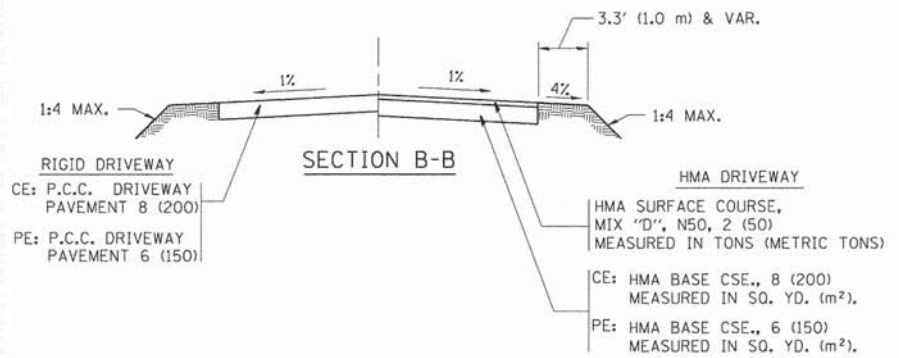
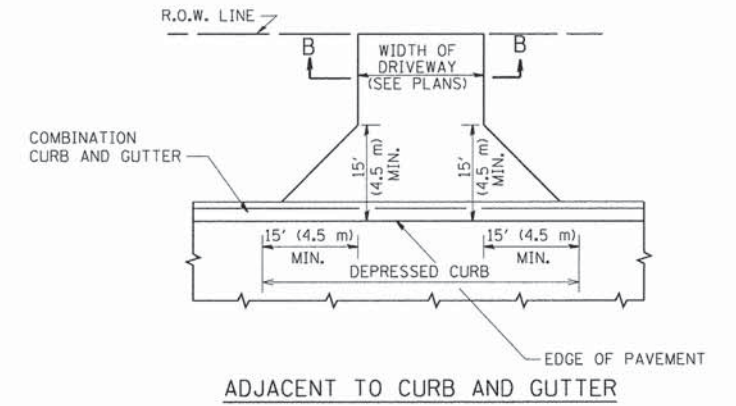
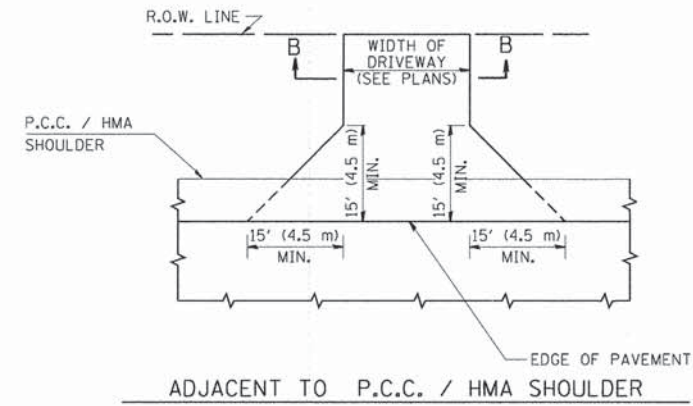
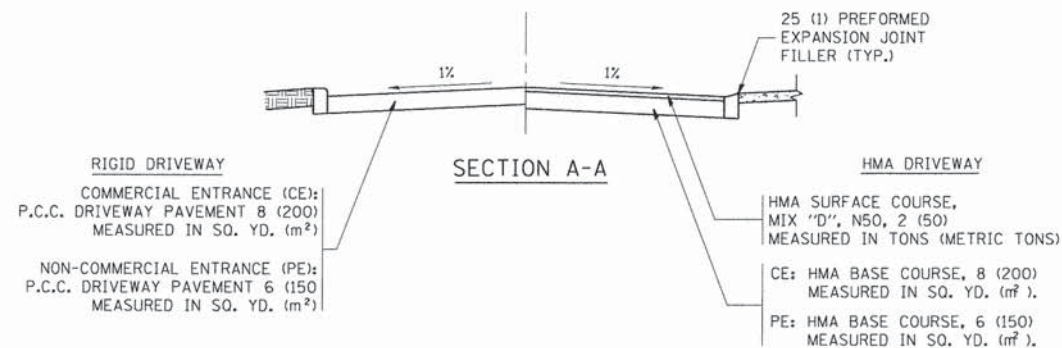
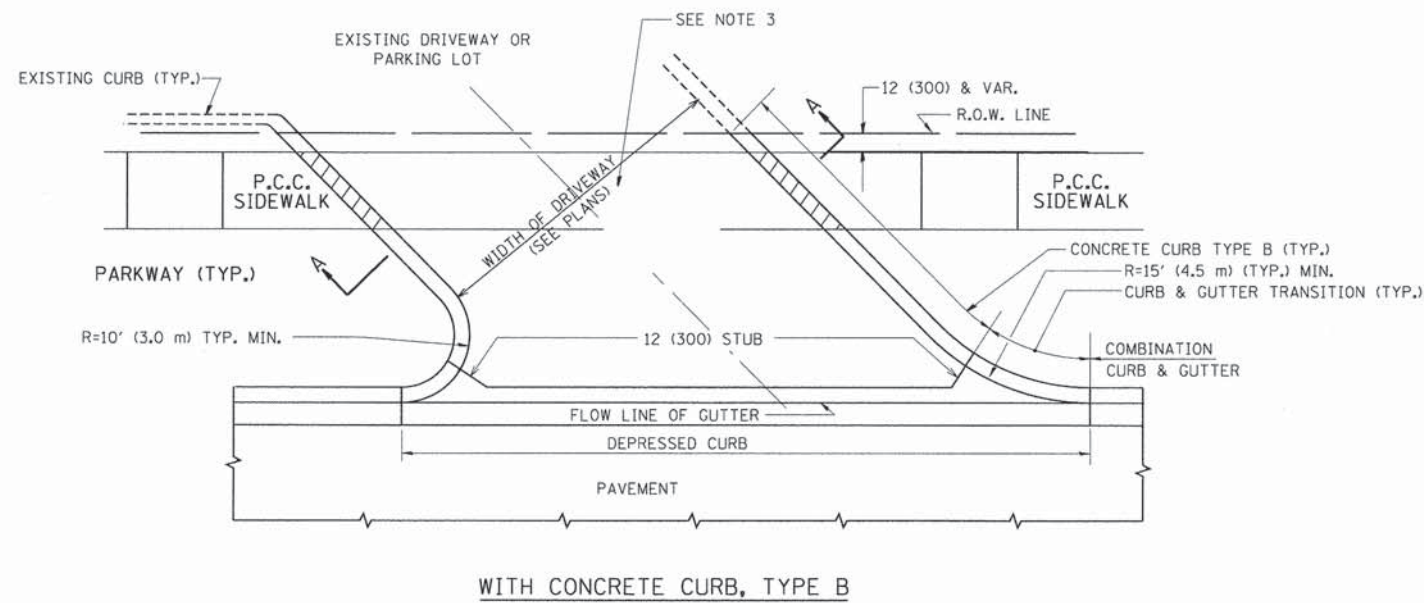
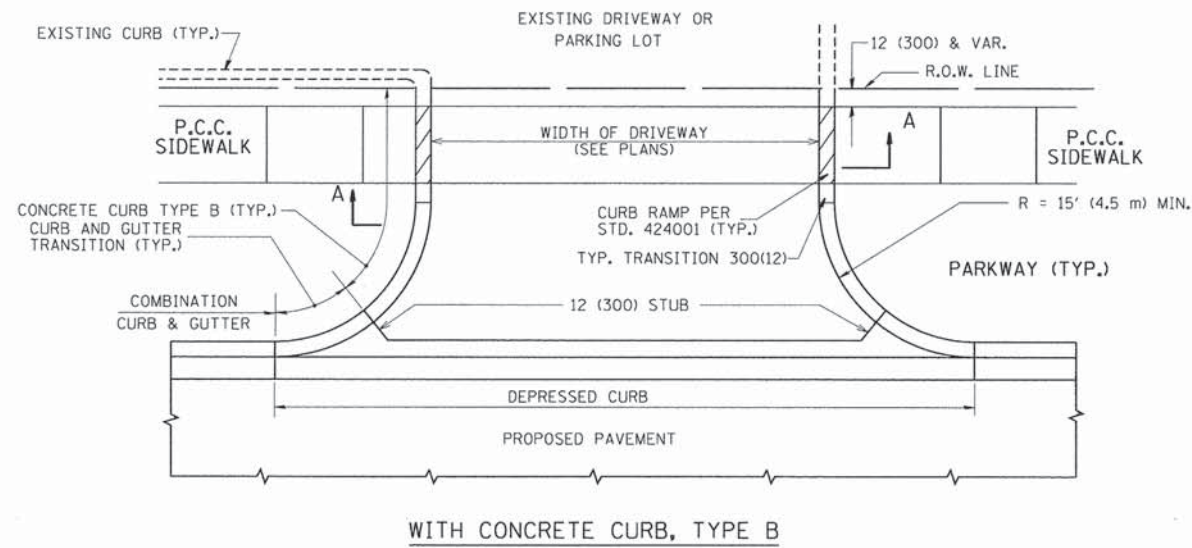
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	PLOT DATE =	DATE -- 11-24-2014	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION DETAILS  
F.A.P. ROUTE 351 (IL ROUTE 7)**

SCALE: NONE    SHEET NO. OF SHEETS    STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

JJB	JAMES J. BENES & ASSOCIATES, INC.			
	950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 • Fax (630) 719-7589			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	28
				CONTRACT NO. 61A31
ILLINOIS FED. AID PROJECT				



**RURAL FIELD ENTRANCE (FE)**  
 HMA SURFACE COURSE,  
 MIX "D", N50, 2 (50)  
 MEASURED IN TONS (METRIC TONS)  
 AGGREGATE BASE CSE., TYPE B, 8 (200)  
 MEASURED IN SQ. YD. (m<sup>2</sup>).

**GENERAL NOTES:**

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

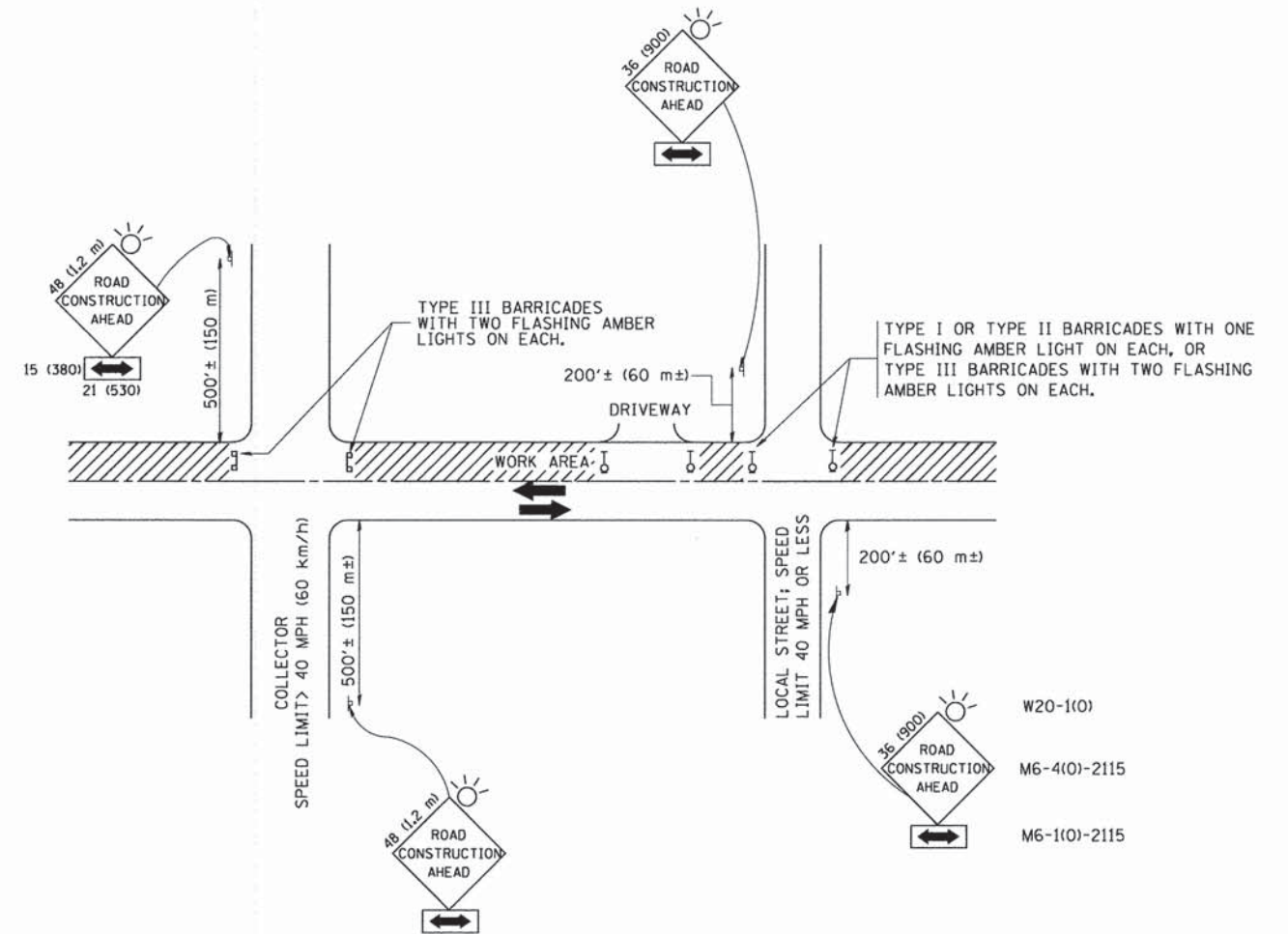
THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

FILE NAME = c:\pe_work\pwsdot\1eysa\0108315\bd01.dgn	USER NAME = 1eysa	DESIGNED - R. SHAH	REVISED - P. LoFLUER 04-15-03	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB &amp; EDGE OF SHOULDER &gt;= 15' (4.5 m)</b>			F.A.P. RTE. 351	SECTION 10-00074-00-BR	COUNTY WILL	TOTAL SHEETS 51	SHEET NO. 29
PLOT SCALE = 50.0000' / 1"	CHECKED -	DATE - 11-04-95	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	<b>BD0156-07 (BD-01)</b>		CONTRACT NO. 61A31	
PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 06-11-08	REVISED - R. BORO 09-06-11		FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT							



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

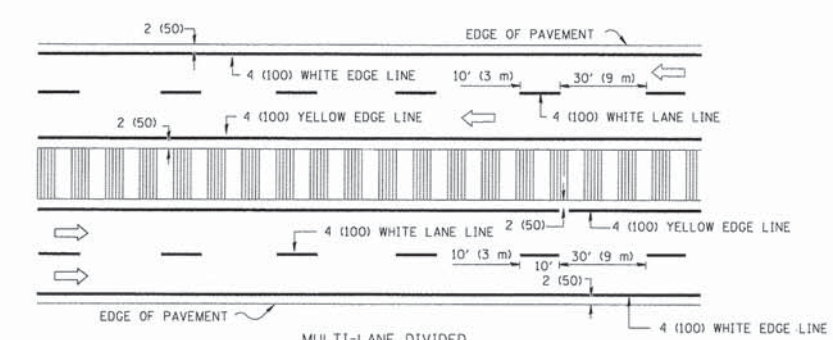
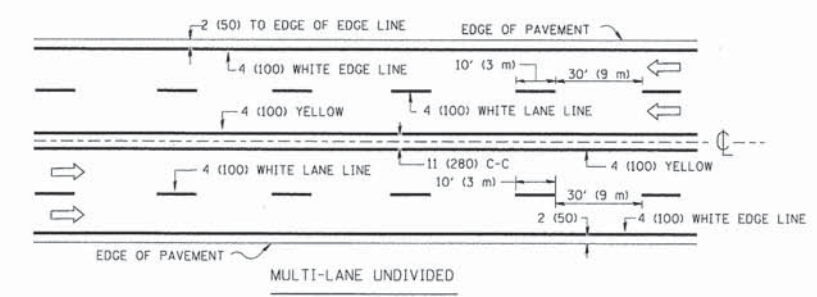
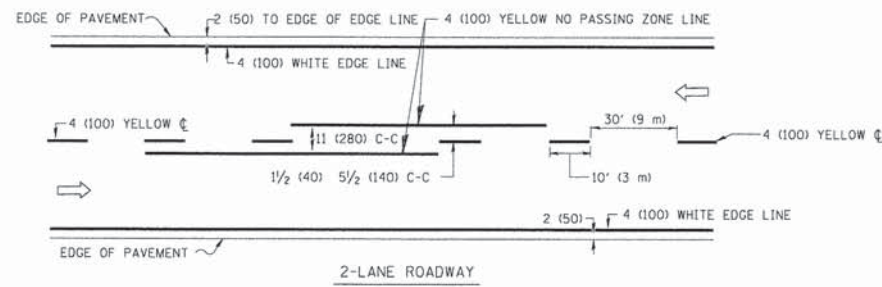
All dimensions are in millimeters (inches) unless otherwise shown.

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		DRAWN -	REVISED - A. HOUSEH 03-06-96
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

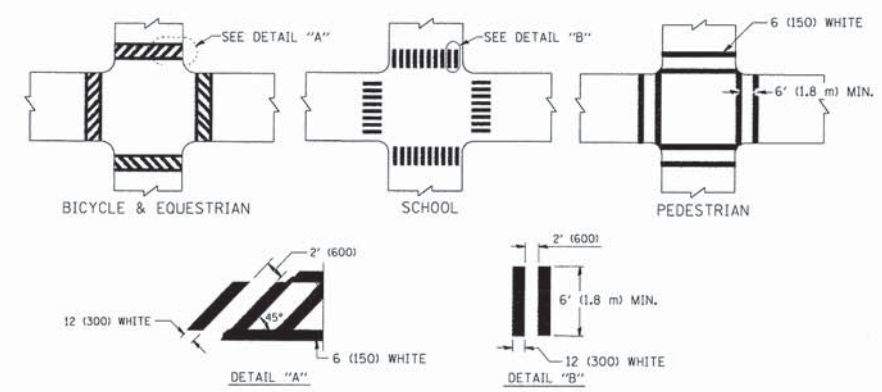
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE. 351	SECTION 10-00074-00-BR	COUNTY WILL	TOTAL SHEETS 51	SHEET NO. 30
TC-10			CONTRACT NO. 61A31	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

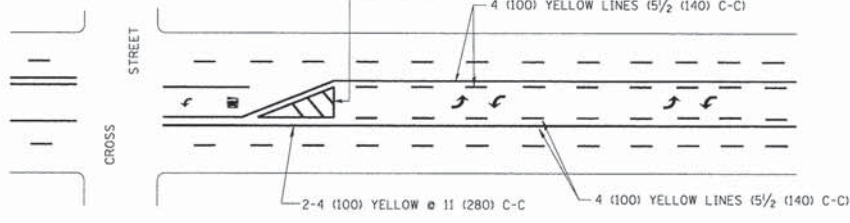
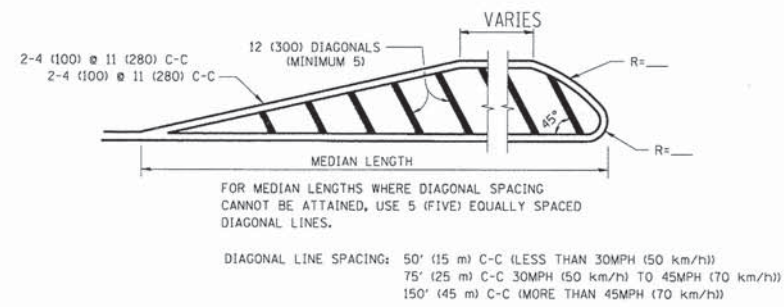
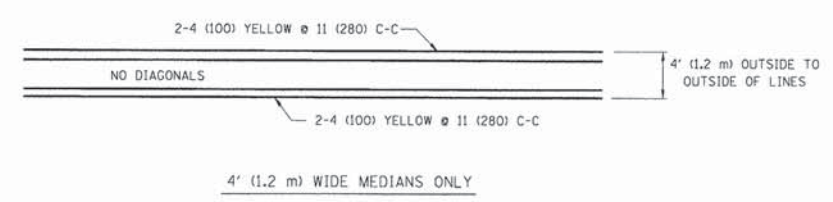


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

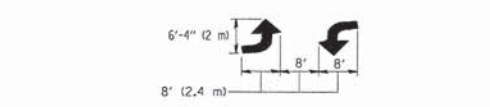
TYPICAL LANE AND EDGE LINE MARKING



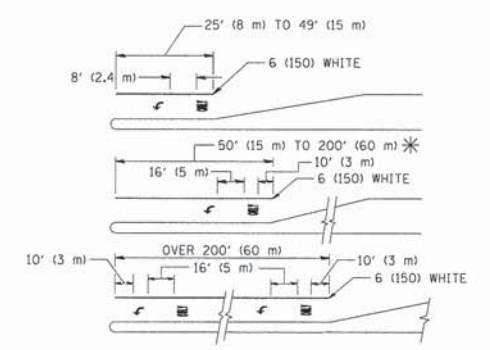
TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING

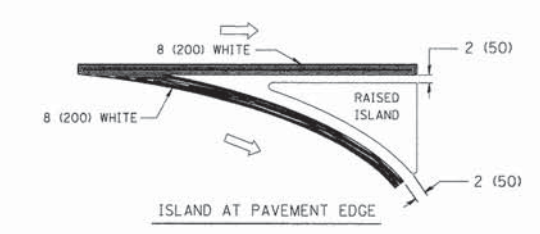
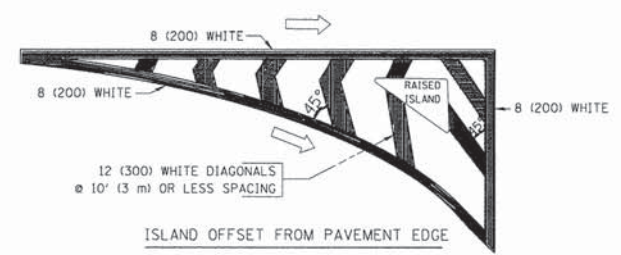


TYPICAL LEFT (OR RIGHT) TURN LANE



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
 \* AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
 \* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

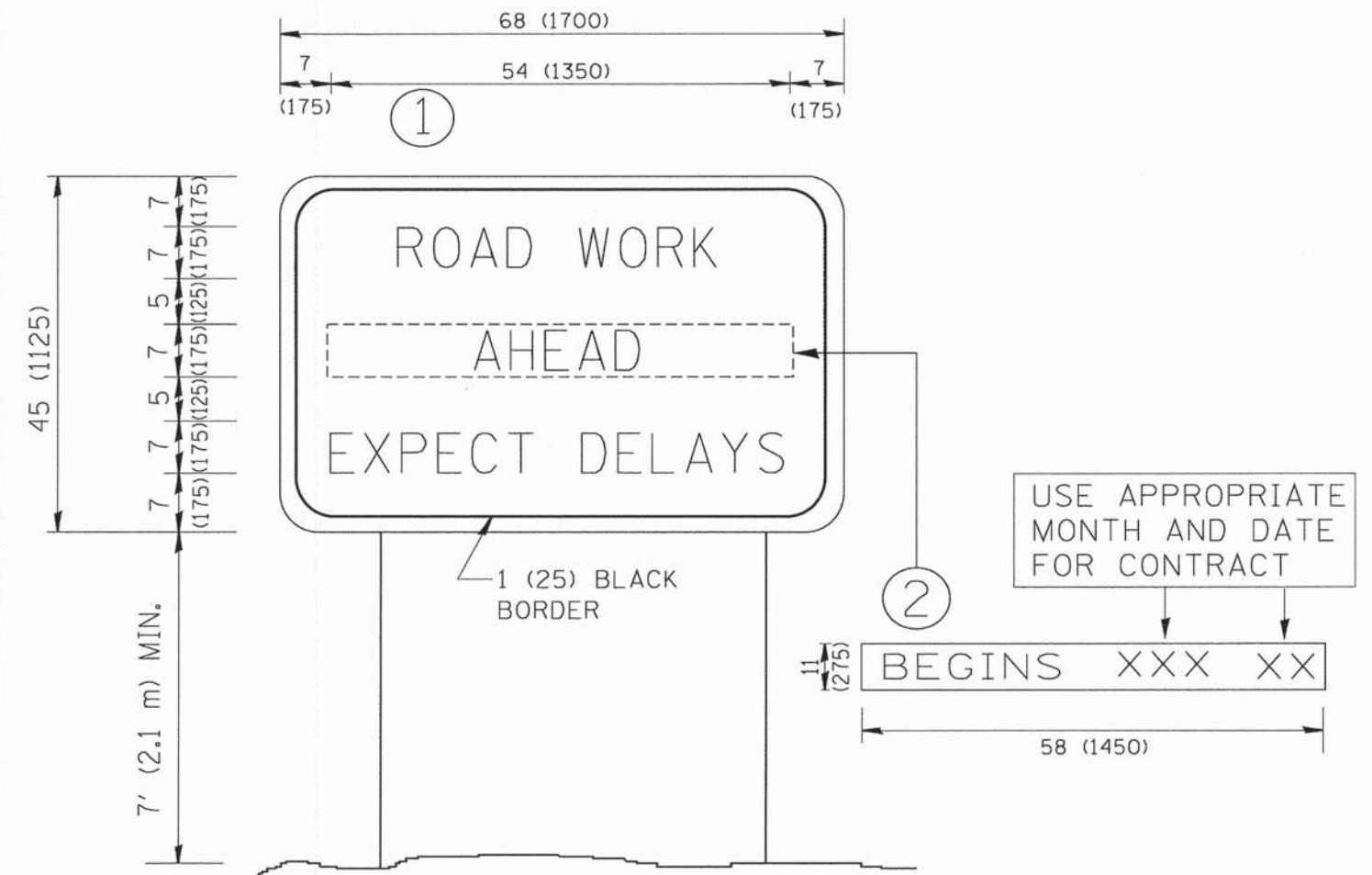
All dimensions are in inches (millimeters) unless otherwise shown.

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	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-0074-00-BR	WILL	51	31
TC-13			CONTRACT NO. 61A31	
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

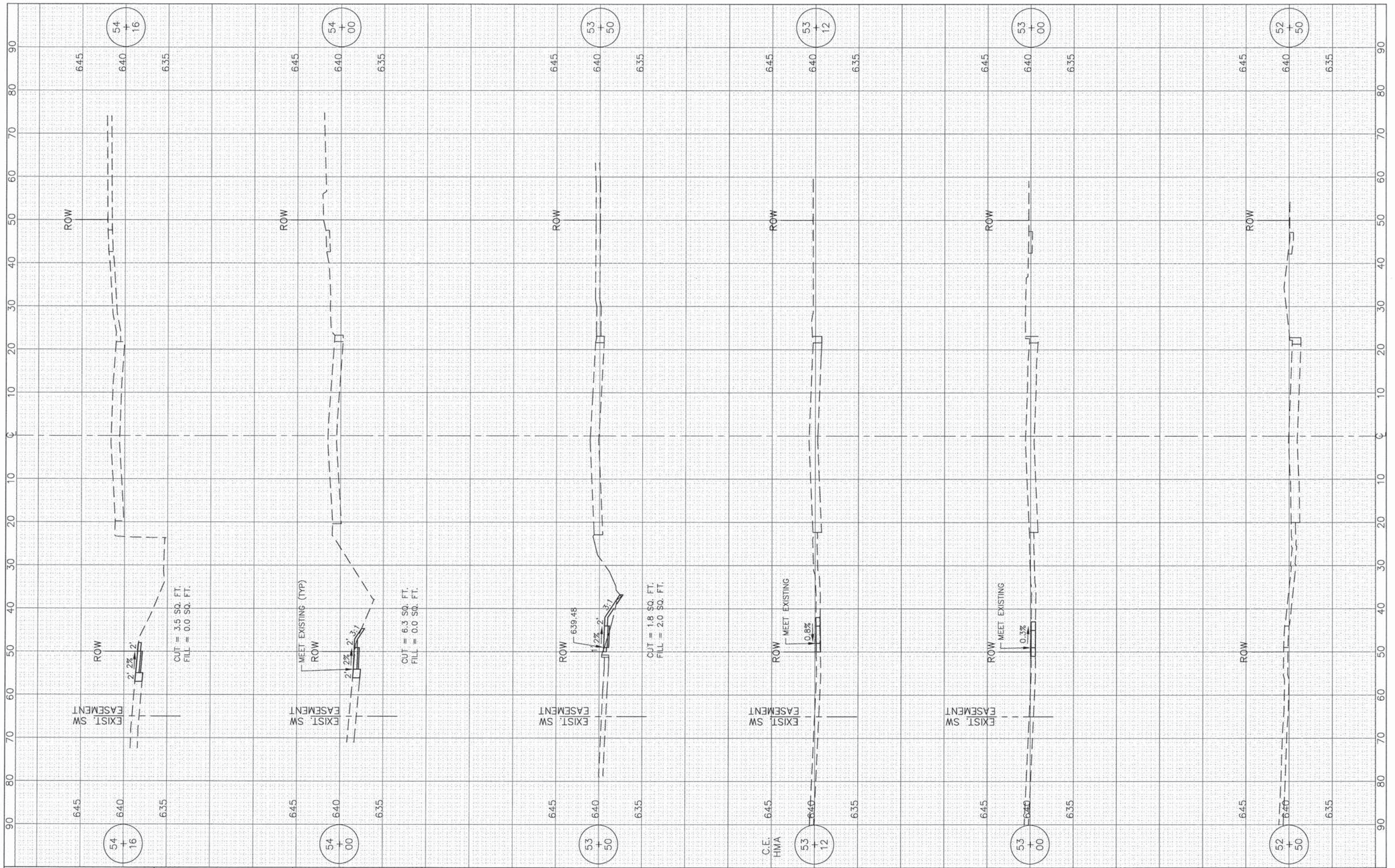
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	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	32
TC-22		CONTRACT NO.	61A31	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				





FILE NAME =  
 USER NAME =  
 DRAWN = BCD  
 CHECKED = BDH  
 DATE = 11-24-2014

DESIGNED -- BDH  
 REVISIONS:  
 1. REVISED --  
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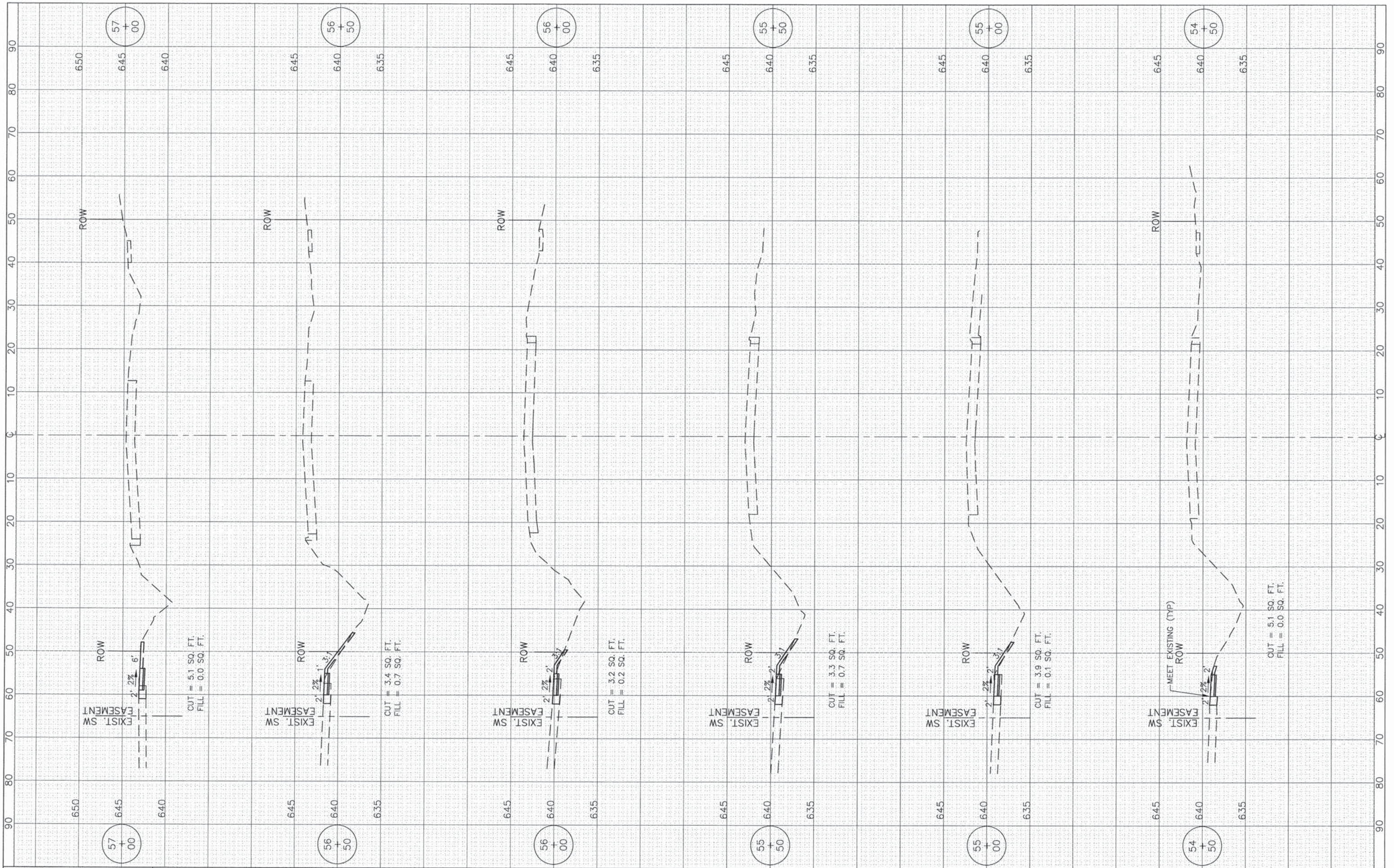
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 F.A.P. ROUTE 351 (IL ROUTE 7)  
 STA. 52+50 TO STA. 54+16

1"=10' HOR.  
 SCALE: 1"=5' VERT.  
 SHEET NO. OF SHEETS

F.A.P. RTE. 351  
 SECTION 10-00074-00-BR  
 COUNTY WILL  
 TOTAL SHEETS 51  
 SHEET NO. 33

CONTRACT NO. 61A31  
 ILLINOIS FED. AID PROJECT



FILE NAME  
 USER NAME =  
 DRAWN = BCD  
 CHECKED = BDH  
 DATE = 11-24-2014

DESIGNED = BDH  
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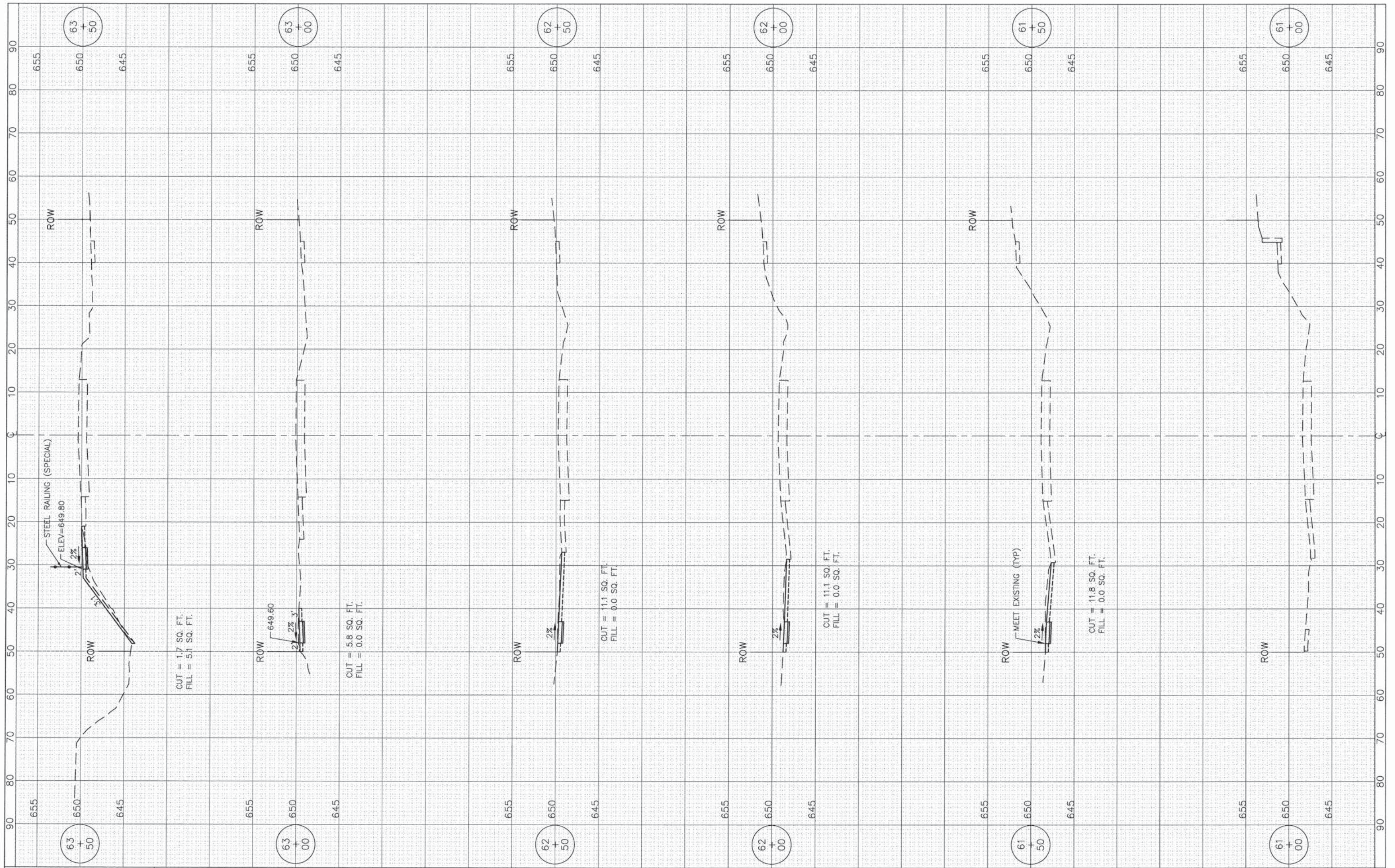
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 F.A.P. ROUTE 351 (IL ROUTE 7)**  
 1"=10' HOR.  
 SCALE: 1"=5' VERT.  
 SHEET NO. OF SHEETS  
 STA. 54+50 TO STA. 57+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	34

CONTRACT NO. 61A31  
 ILLINOIS FED. AID PROJECT





FILE NAME =  
 USER NAME =  
 PLOT SCALE: 1"=10' HOR, 1"=5' VERT.  
 PLOT DATE =

DESIGNED	BDH	REVISED	-
DRAWN	BCD	REVISED	-
CHECKED	BDH	REVISED	-
DATE	11-24-2014	REVISED	-

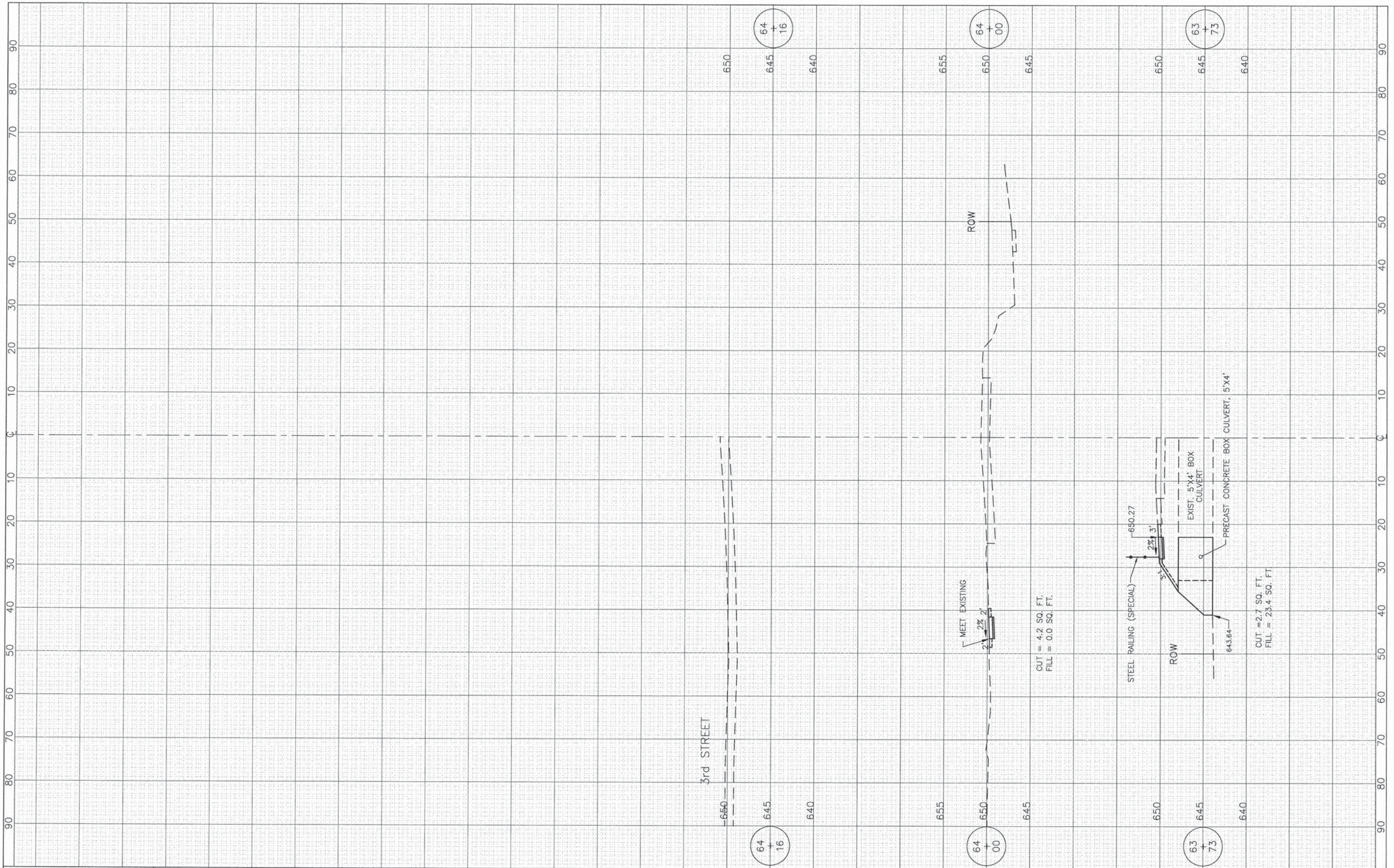
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 F.A.P. ROUTE 351 (IL ROUTE 7)**

1"=10' HOR  
 SCALE: 1"=5' VERT.

SHEET NO. OF SHEETS      STA. 61+00 TO STA. 63+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	36
			CONTRACT NO. 61A31	
ILLINOIS FED. AID PROJECT				



FILE NAME =

USER NAME =

DESIGNED -- BDH

DRAWN -- BCD

CHECKED -- BDH

DATE -- 11-24-2014

REVISIONS

REVISIONS	NO.	DATE	BY	DESCRIPTION

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

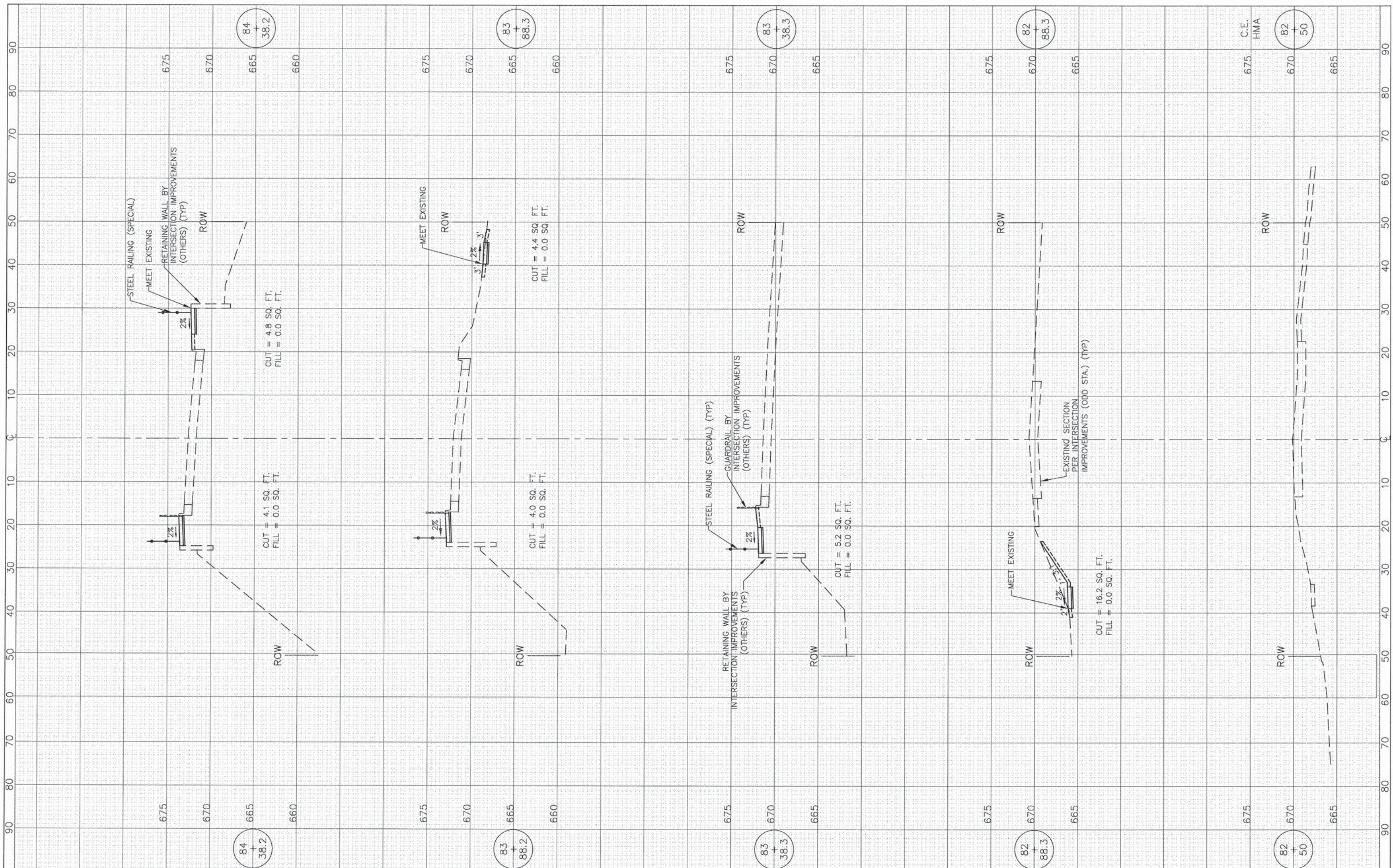
**F.A.P. ROUTE 351 (IL ROUTE 7)**

1"=10' HOR.  
SCALE: 1"=5' VERT.

SHEET NO. OF SHEETS

STA. 63+73 TO STA. 64+16

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	37
CONTRACT NO. 61A31				
ILLINOIS FED. AID PROJECT				



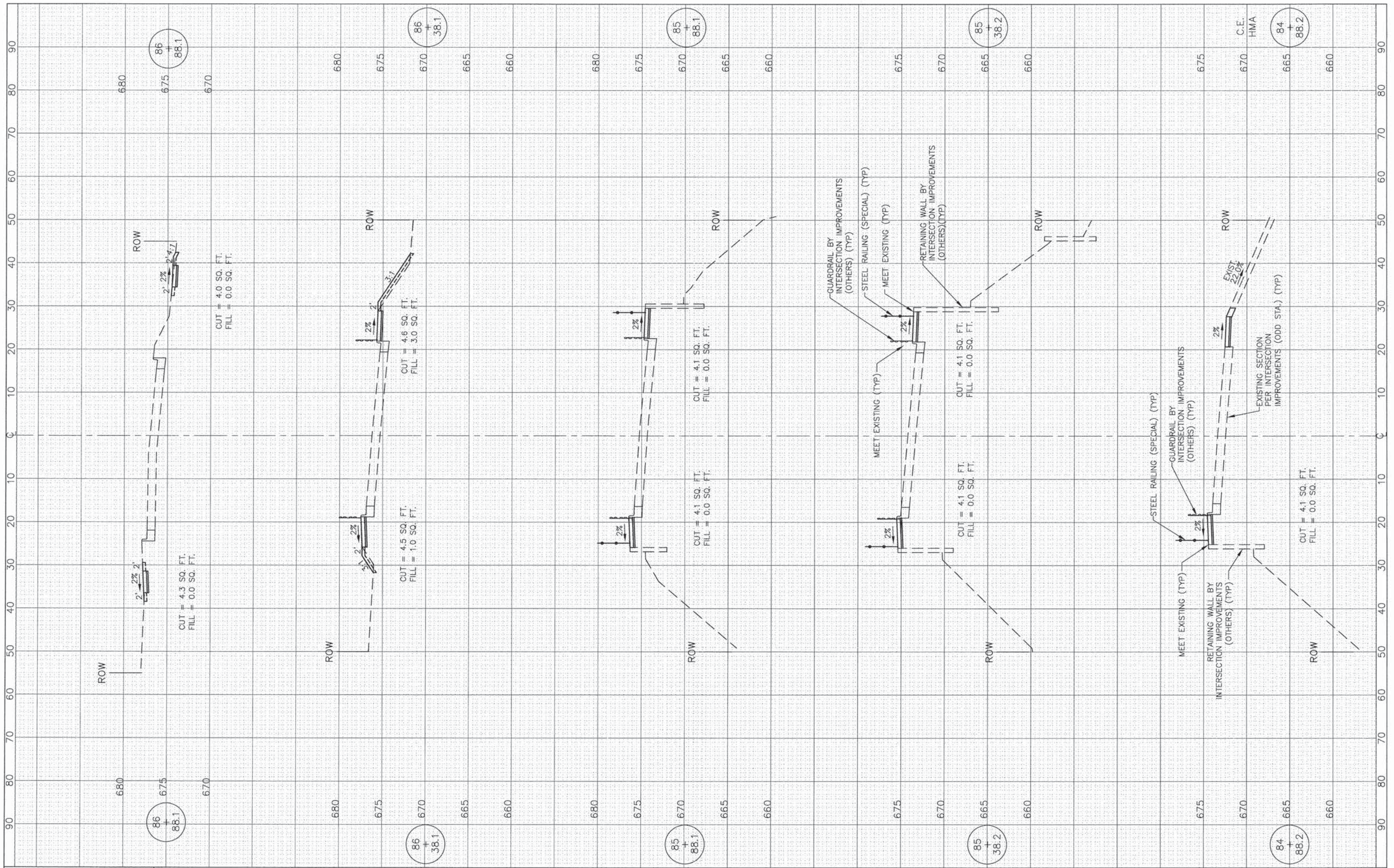
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		DATE - 11-24-2014	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
F.A.P. ROUTE 351 (IL ROUTE 7)**

1"=10' HOR.  
SCALE: 1"=5' VERT. SHEET NO. OF SHEETS STA. 82+50 TO STA. 84+38.2

F.A.P. RTE. 351	SECTION 10-00074-00-BR	COUNTY WILL	TOTAL SHEETS 51	SHEET NO. 38
CONTRACT NO. 61A31			ILLINOIS FED. AID PROJECT	



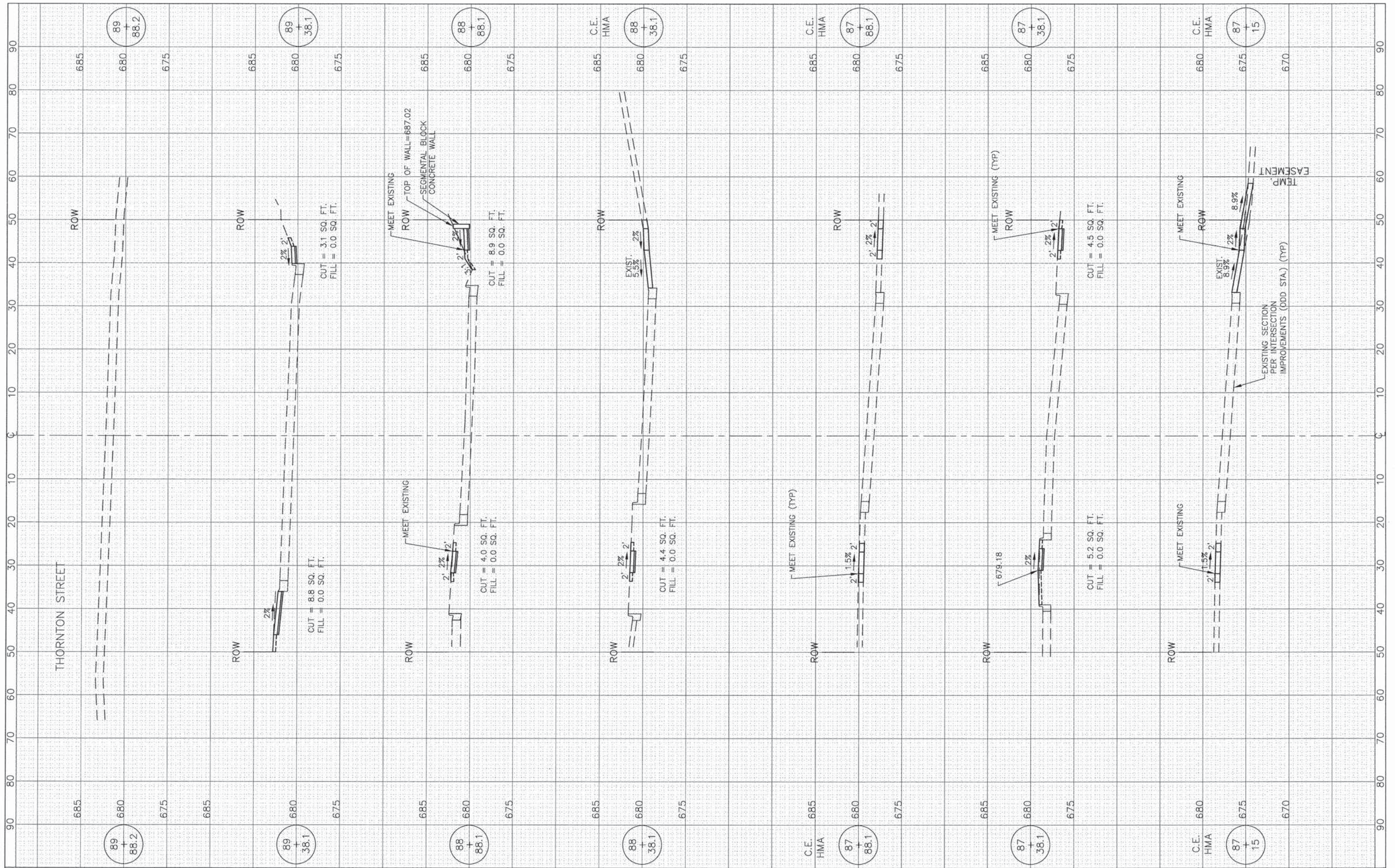
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		CHECKED -- BDH	REVISED --
		DATE -- 11-24-2014	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
F.A.P. ROUTE 351 (IL ROUTE 7)**

1"=10' HOR.  
SCALE: 1"=5' VERT. SHEET NO. OF SHEETS STA. 84+88.2 TO STA. 86+88.1

F.A.P. RTE. 351	SECTION 10-00074-00-BR	COUNTY WILL	TOTAL SHEETS 51	SHEET NO. 39
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A31	



FILE NAME =  
 USER NAME =  
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 CHECKED - BDH  
 PLOT DATE =

DESIGNED - BDH  
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 CHECKED - BDH  
 DATE - 11-24-2014

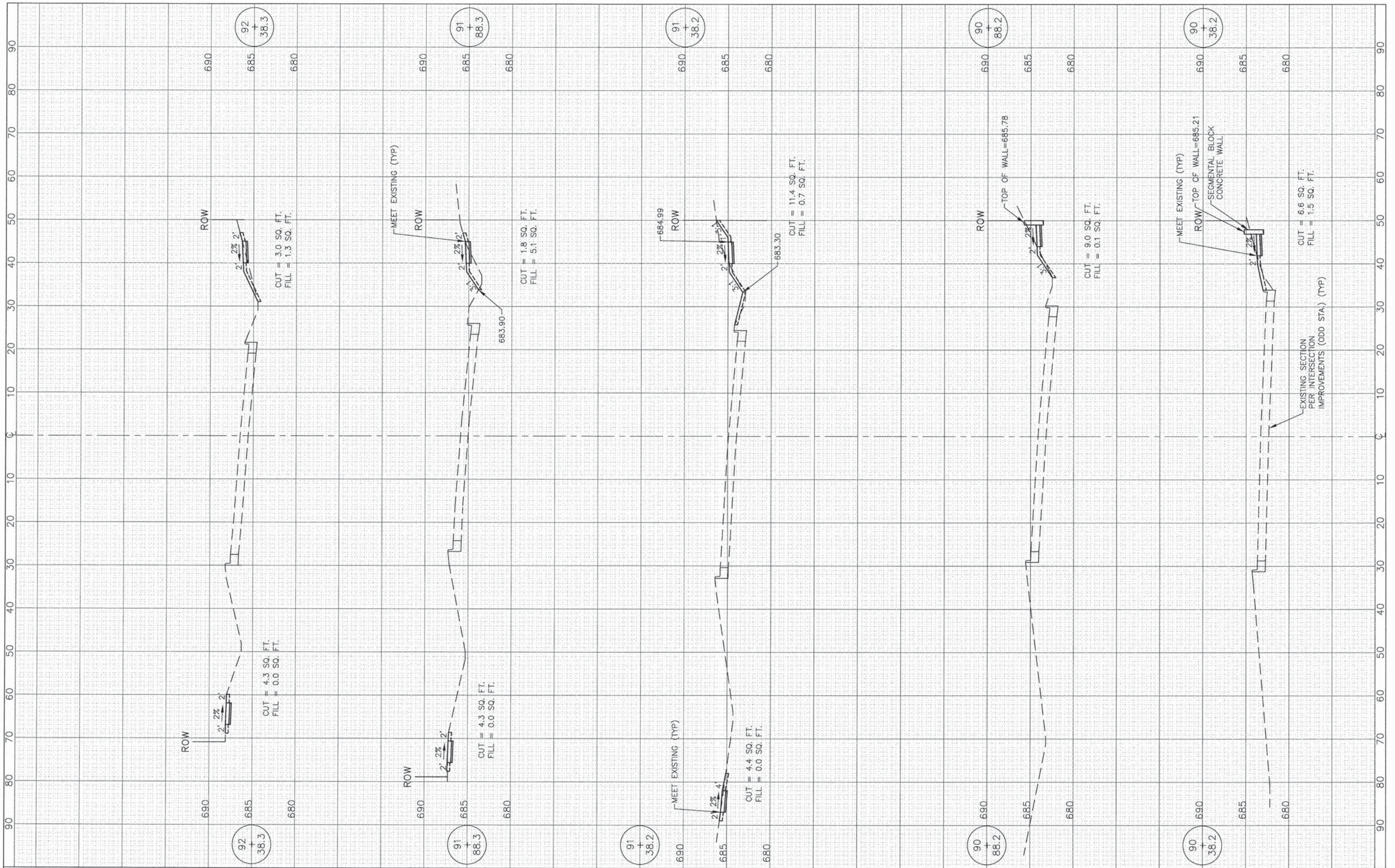
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 F.A.P. ROUTE 351 (IL ROUTE 7)**  
 1"=10' HOR.  
 SCALE: 1"=5' VERT. SHEET NO. OF SHEETS  
 STA. 87+15 TO STA. 89+88.2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	40
CONTRACT NO. 61A31				
ILLINOIS FED. AID PROJECT				





FILE NAME =  
 USER NAME =  
 PLOT SCALE: 1"=10' HOR, 1"=5' VERT.  
 PLOT DATE =

DESIGNED - BDH  
 DRAWN - BCD  
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 DATE - 11-24-2014

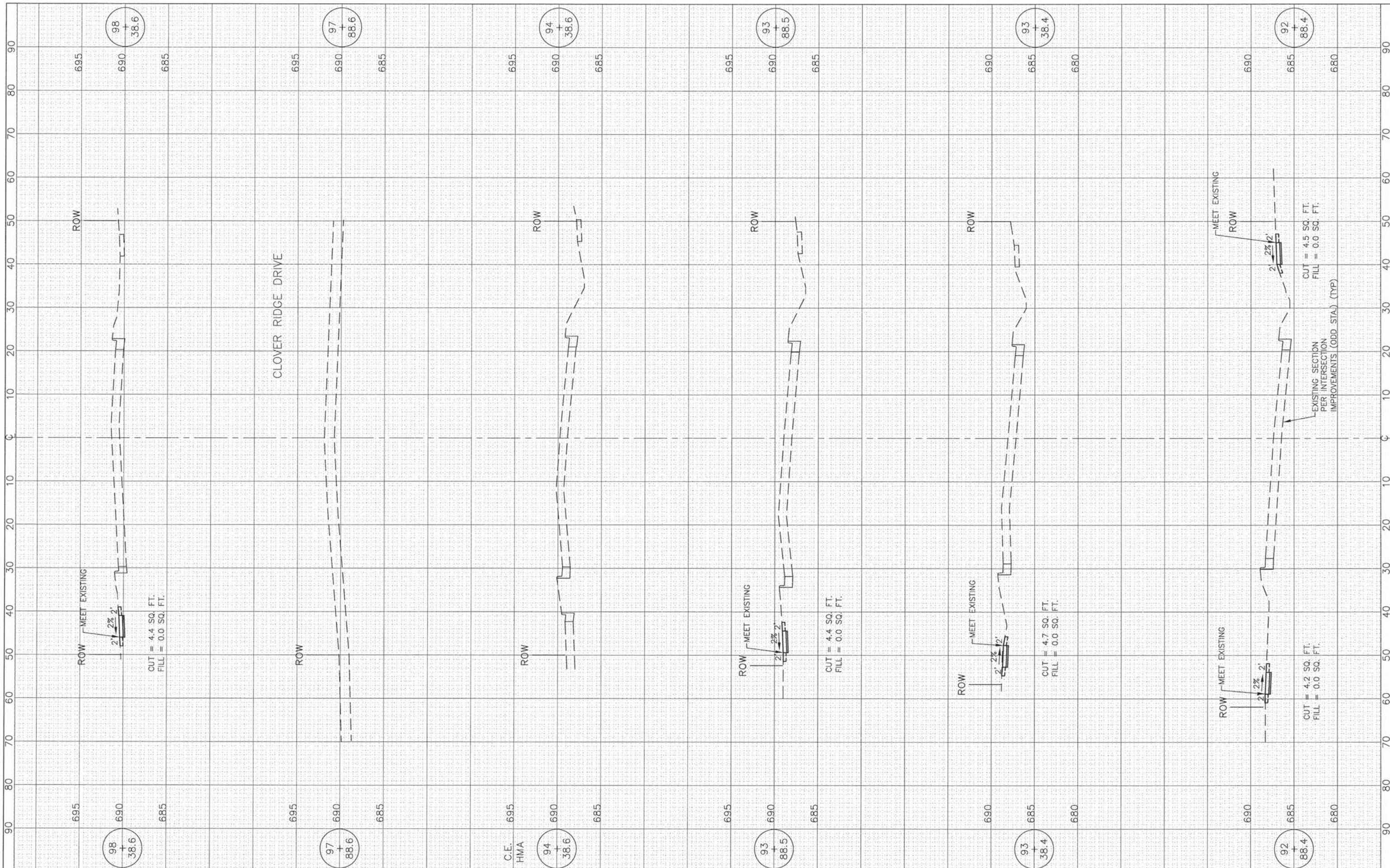
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 F.A.P. ROUTE 351 (IL ROUTE 7)**  
 1"=10' HOR.  
 SCALE: 1"=5' VERT. SHEET NO. OF SHEETS STA. 90+38.2 TO STA. 92+38.3

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	41

CONTRACT NO. 61A31  
 ILLINOIS FED. AID PROJECT



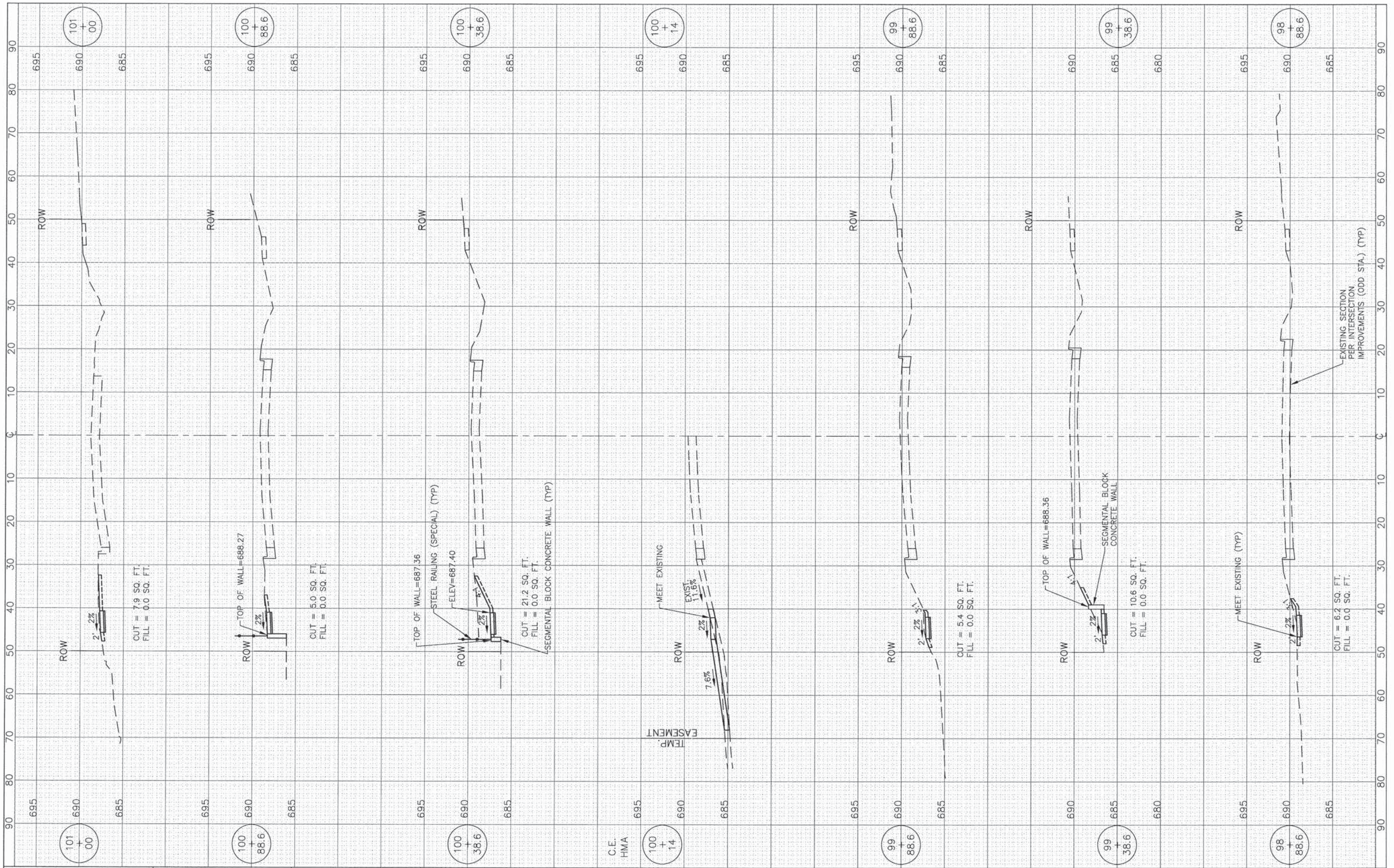
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		CHECKED - BDH	REVISED -
		DATE - 11-24-2014	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
F.A.P. ROUTE 351 (IL ROUTE 7)**

1"=10' HOR.  
SCALE: 1"=5' VERT. SHEET NO. OF SHEETS STA. 92+88.4 TO STA. 98+38.6

F.A.P. RTE. 351	SECTION 10-00074-00-BR	COUNTY WILL	TOTAL SHEETS 51	SHEET NO. 42
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A31	



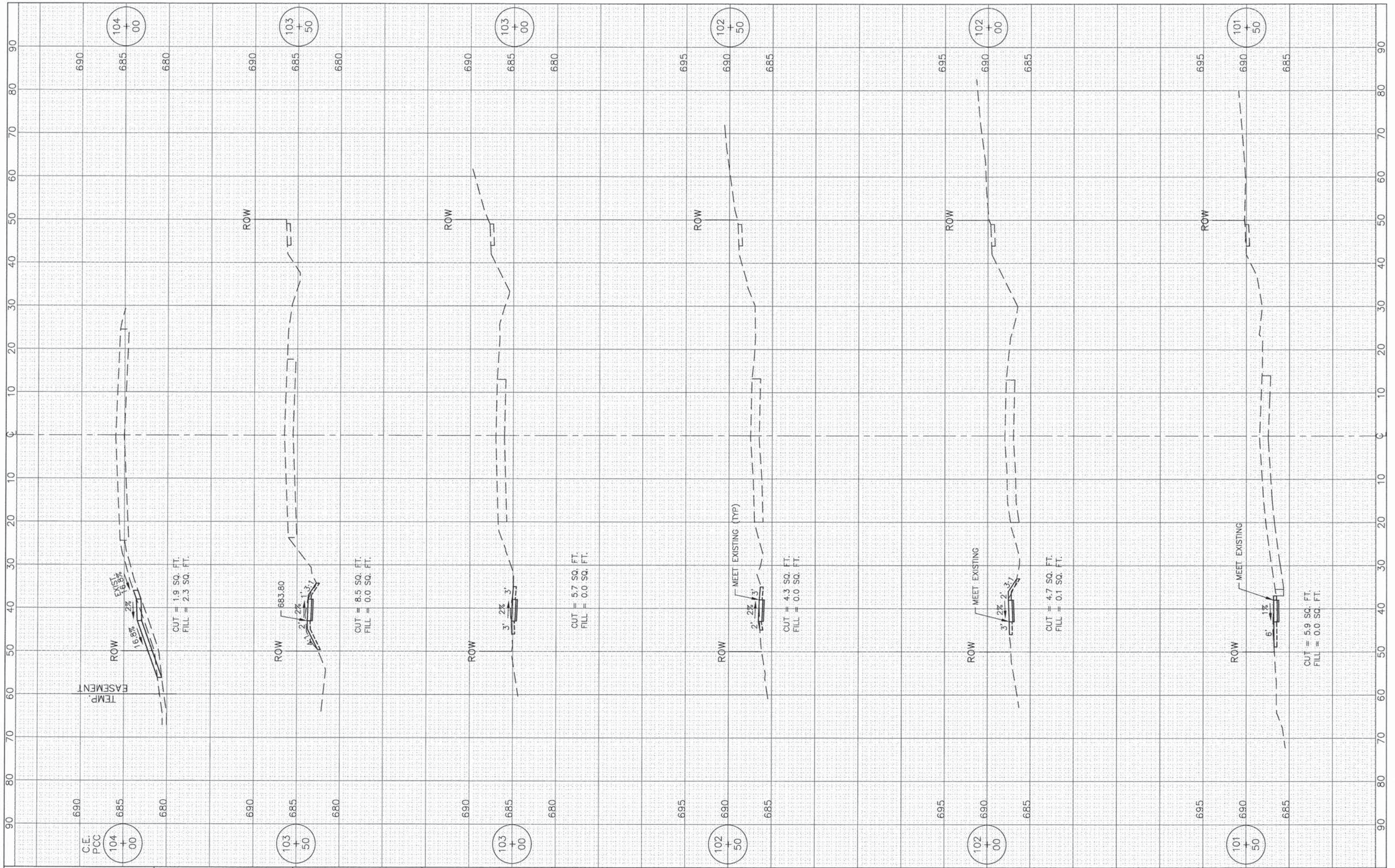
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CHECKED --	BDH
DATE --	11-24-2014

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DATE --	11-24-2014	REVISED --	

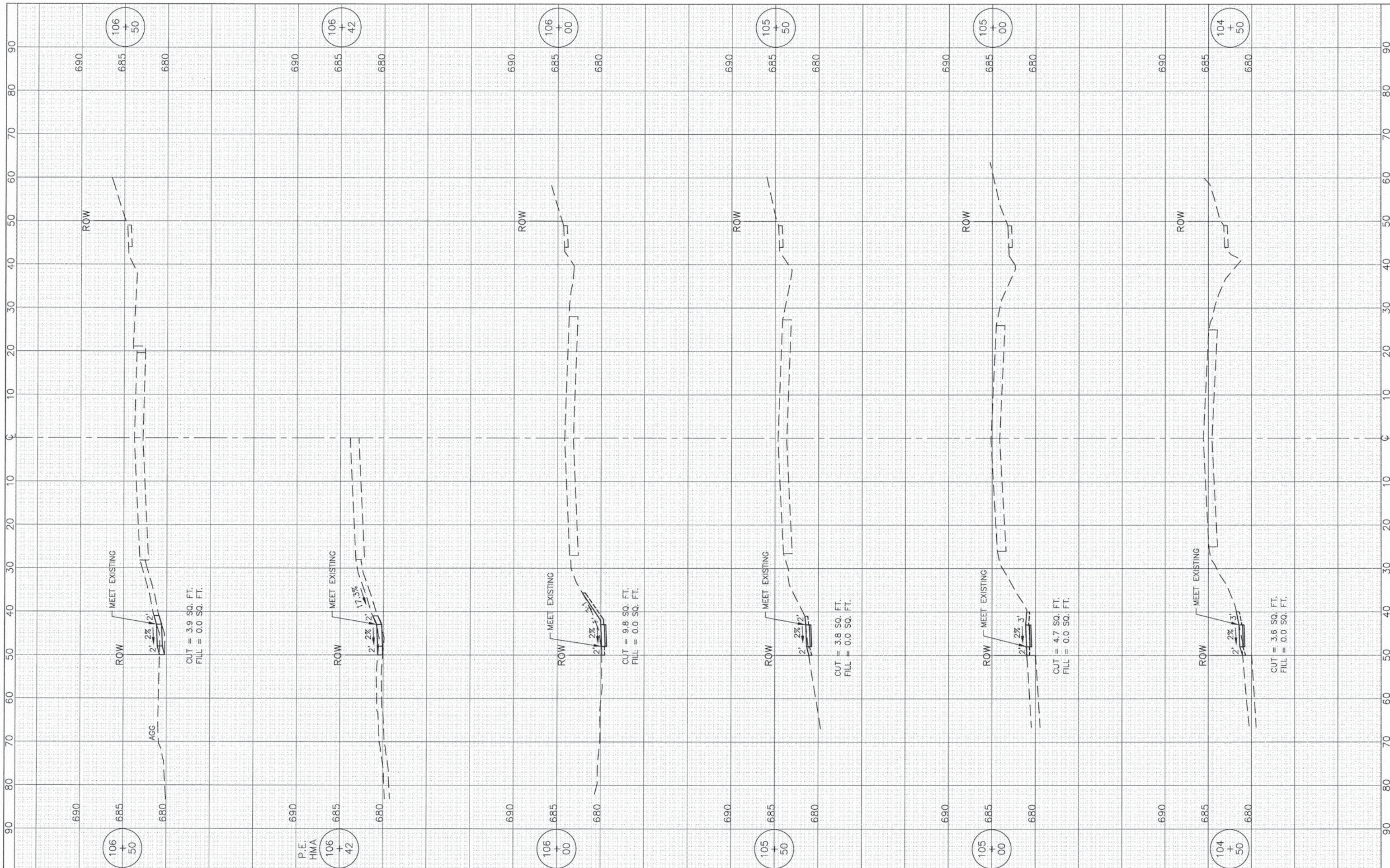
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>	
<b>F.A.P. ROUTE 351 (IL ROUTE 7)</b>	
1"=10' HOR.	1"=5' VERT.
SHEET NO. OF SHEETS	STA. 98+88.6 TO STA. 101+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	43
CONTRACT NO. 61A31				
ILLINOIS FED. AID PROJECT				



FILE NAME =	USER NAME =	DESIGNED - BDH	REVISOR -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b> <b>F.A.P. ROUTE 351 (IL ROUTE 7)</b>		F.A.P. RTE. 351	SECTION 10-00074-00-BR	COUNTY WILL	TOTAL SHEETS 51	SHEET NO. 44	
		DRAWN - BCD	REVISOR -		1"=10' HOR. SCALE: 1"=5' VERT.		SHEET NO. OF SHEETS	STA. 101+50 TO STA. 104+00	CONTRACT NO. 61A31			
		CHECKED - BDH	REVISOR -		ILLINOIS FED. AID PROJECT							
		DATE - 11-24-2014	REVISOR -									



FILE NAME =	USER NAME =	DESIGNED BDH	REVISED
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		CHECKED BDH	REVISED
		DATE 11-24-2014	REVISED

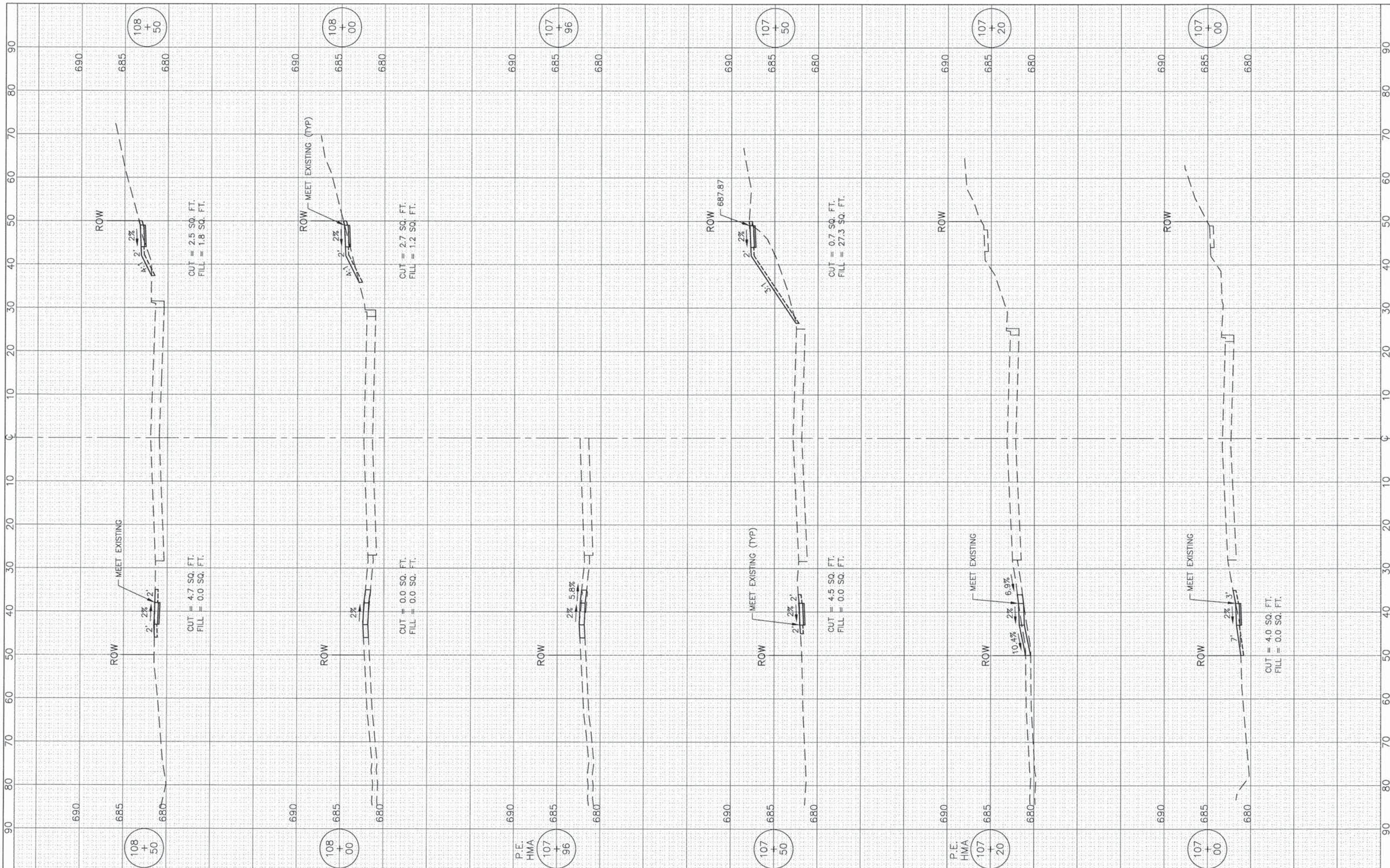
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
**F.A.P. ROUTE 351 (IL ROUTE 7)**

1"=10' HOR.  
SCALE: 1"=5' VERT.

SHEET NO. OF SHEETS      STA. 104+50 TO STA. 106+50

F.A.P. RTE. 351	SECTION 10-00074-00-BR	COUNTY WILL	TOTAL SHEETS 51	SHEET NO. 45
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A.31	



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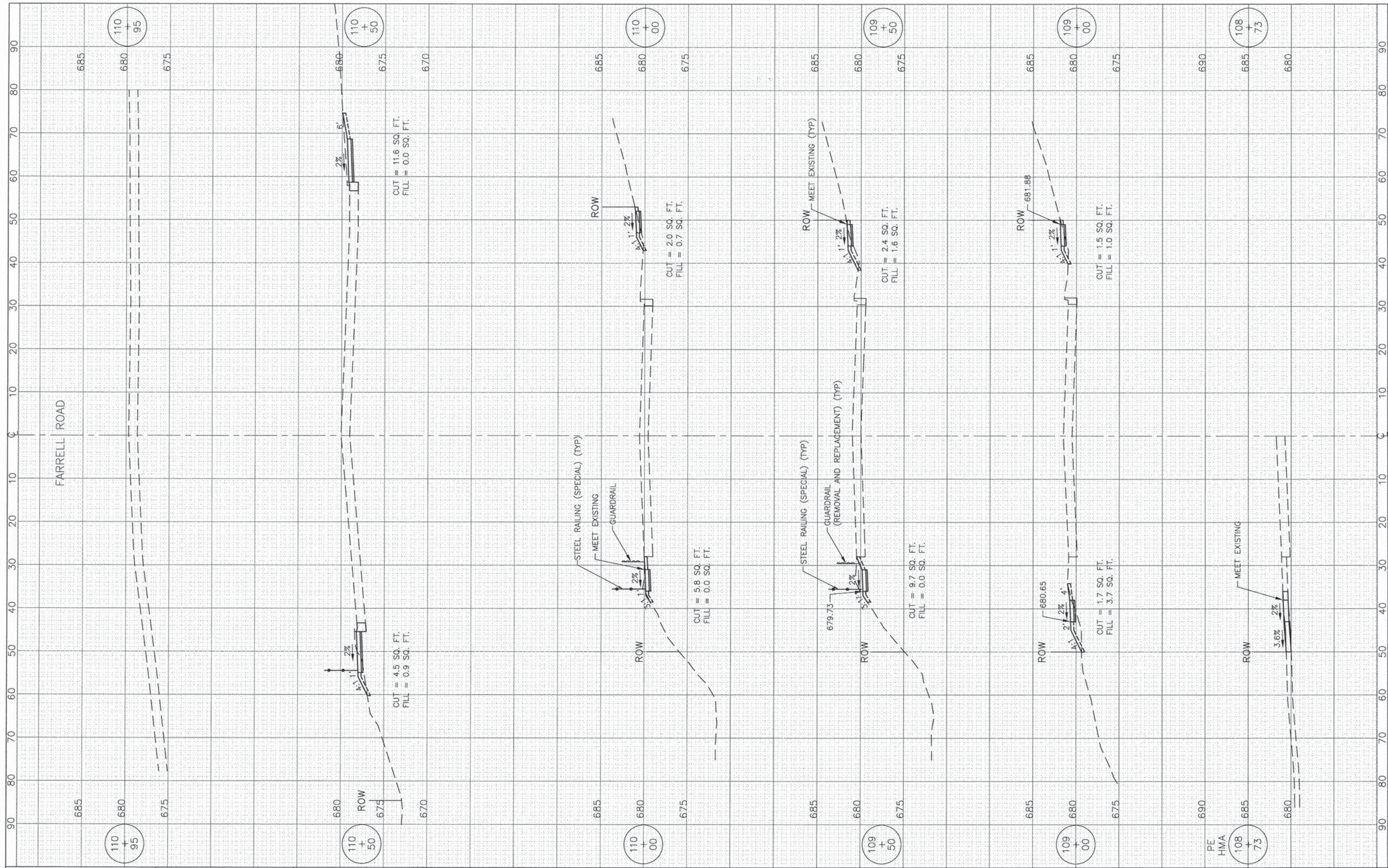
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
F.A.P. ROUTE 351 (IL ROUTE 7)**

1"=10' HOR.  
SCALE: 1"=5' VERT.

SHEET NO. OF SHEETS      STA. 107+00 TO STA. 108+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	46
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A31	



FILE NAME =  
 USER NAME =  
 PLOT SCALE: 1"=10' HOR, 1"=5' VERT.  
 PLOT DATE =

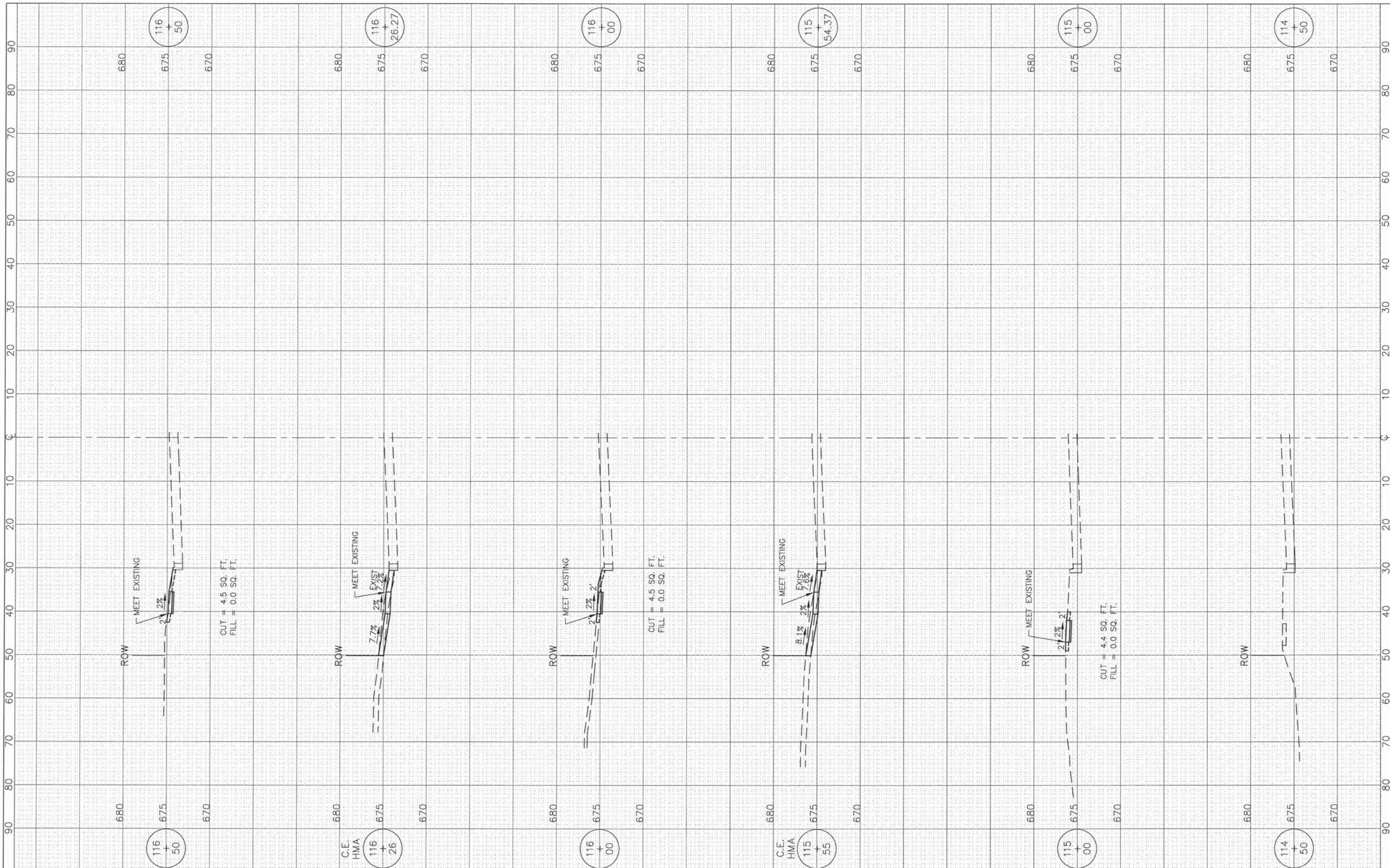
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 DATE - 11-24-2014

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
**F.A.P. ROUTE 351 (IL ROUTE 7)**  
 1"=10' HOR,  
 SCALE: 1"=5' VERT., SHEET NO. OF SHEETS STA. 108+73 TO STA. 110+95

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	47
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A31	



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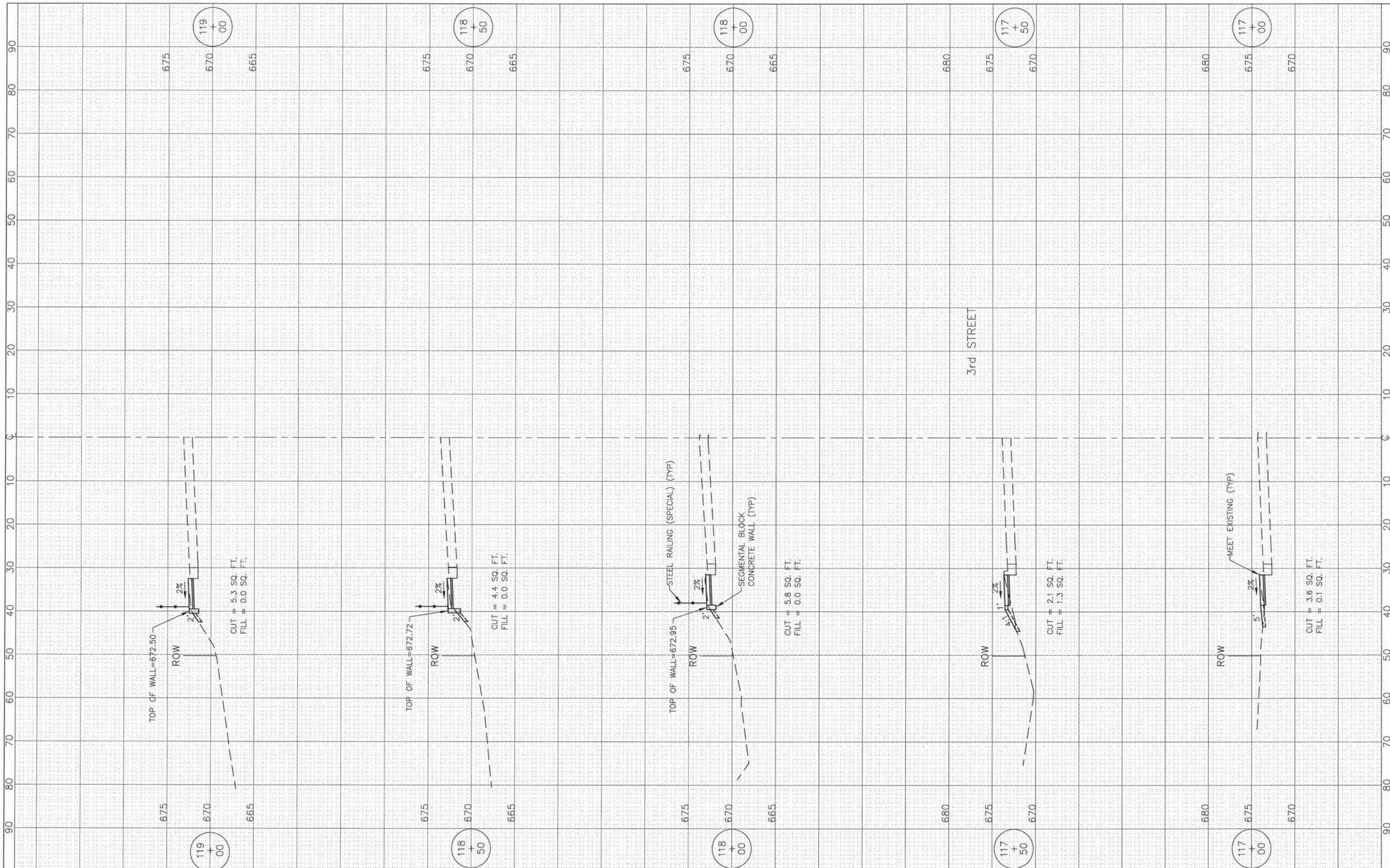
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
F.A.P. ROUTE 351 (IL ROUTE 7)**

1"=10' HOR.  
SCALE: 1"=5' VERT. SHEET NO. OF SHEETS STA. 114+50 TO STA. 116+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	48
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A31	





FILE NAME =  
 USER NAME =  
 PLOT SCALE: 1"=10' HOR, 1"=5' VERT.  
 PLOT DATE =

DESIGNED — BDH  
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 CHECKED — BDH  
 DATE — 11-24-2014

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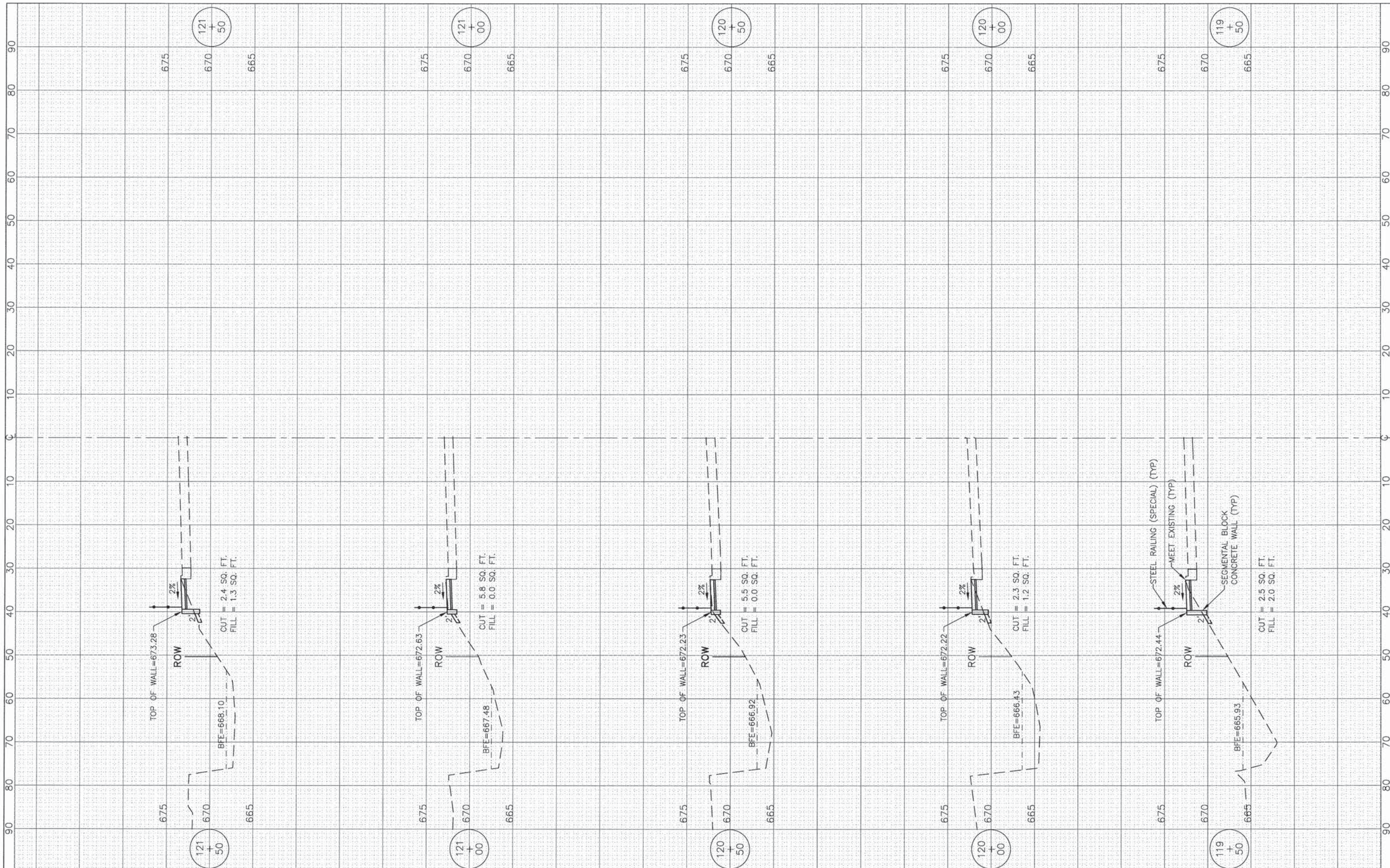
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 F.A.P. ROUTE 351 (IL ROUTE 7)  
 1"=10' HOR.  
 SCALE: 1"=5' VERT. SHEET NO. OF SHEETS STA. 117+00 TO STA. 119+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	49

CONTRACT NO. 61A31  
 ILLINOIS FED. AID PROJECT

CONTRACT NO. 61A31  
 ILLINOIS FED. AID PROJECT



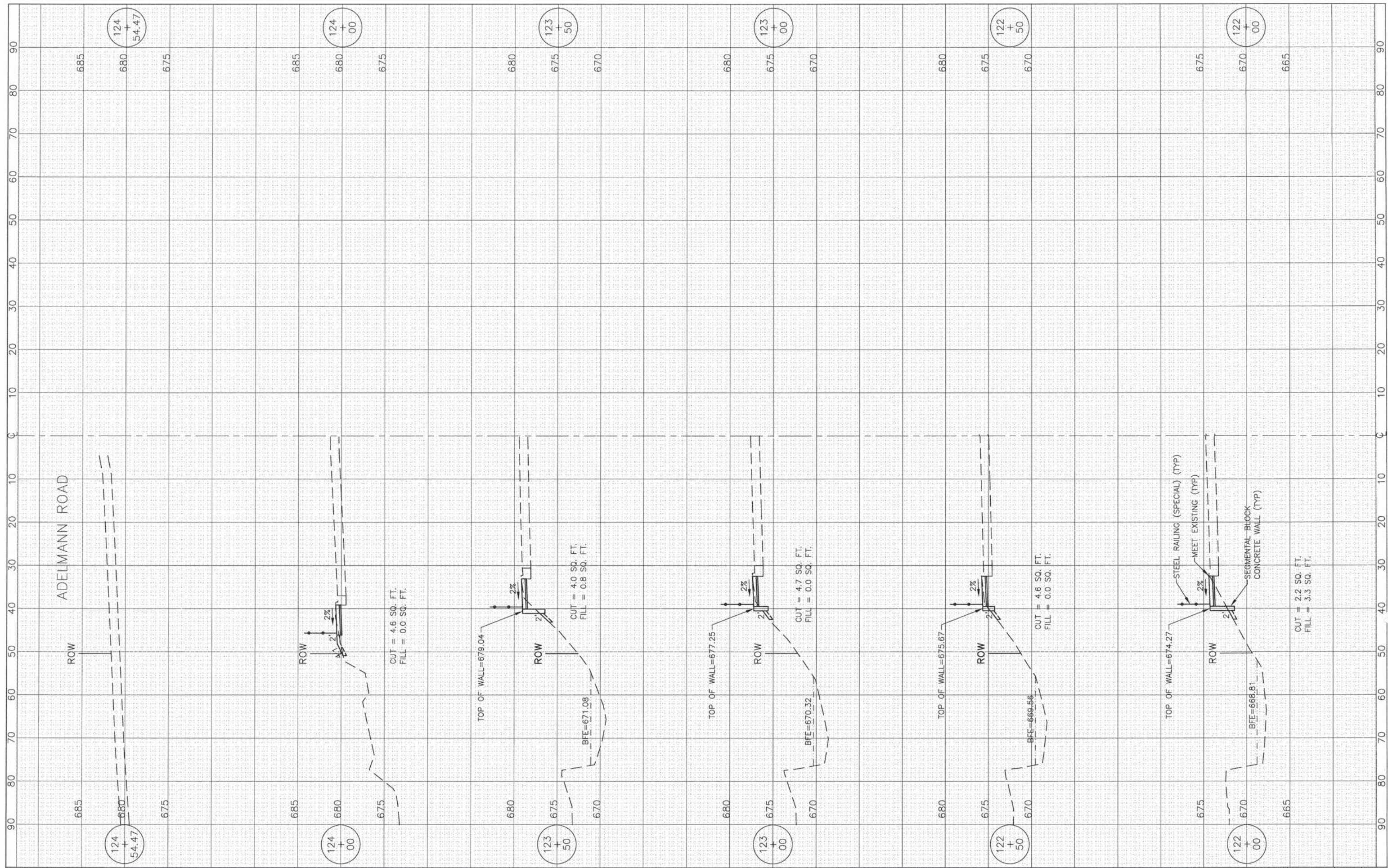
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	PLOT DATE =	DATE - 11-24-2014	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
F.A.P. ROUTE 351 (IL ROUTE 7)**

1"=10' HOR.  
SCALE: 1"=5' VERT. SHEET NO. OF SHEETS STA. 119+50 TO STA. 121+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	50
			CONTRACT NO. 61A.31	
ILLINOIS FED. AID PROJECT				



FILE NAME =  
 USER NAME =  
 PLOT SCALE: 1"=10' HOR, 1"=5' VERT.  
 PLOT DATE =

DESIGNED - BDH  
 DRAWN - BCD  
 CHECKED - BDH  
 DATE - 11-24-2014

REVISED -  
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 F.A.P. ROUTE 351 (IL ROUTE 7)**  
 SCALE: 1"=5' VERT. SHEET NO. OF SHEETS STA. 122+00 TO STA. 124+54.47

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	10-00074-00-BR	WILL	51	51
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61A31	