

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	09-00090-00-SW	COOK	25	1
		ILLINOIS	CONTRACT NO. 63596	

**INDEX OF SHEETS**

SHEET NO:	TITLE:
1	TITLE SHEET
2	GENERAL NOTES, STATE STANDARDS AND BENCH MARKS
3	SUMMARY OF QUANTITIES
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5	TYPICAL SECTIONS
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12-13	DISTRICT DETAILS
14-25	CROSS SECTIONS

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

**PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY**

**49TH STREET, 51ST STREET, 53RD STREET, F.A.U. 1504 (55TH STREET)**

**FAIR ELMS AVENUE, AND CAROLINE AVENUE**

**SIDEWALK CONSTRUCTION**

**SECTION: 09-00090-00-SW**

**PROJECT: HPP-1419(011)**

**VILLAGE OF WESTERN SPRINGS**

**COOK COUNTY**

**C-91-878-09**

**TRAFFIC DATA**

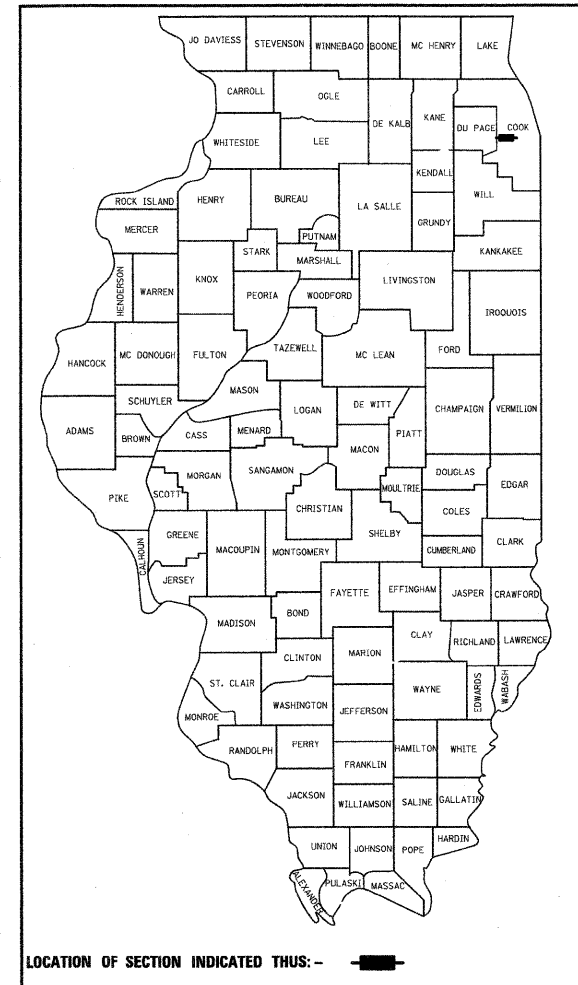
**ADT:**  
49TH STREET = 500  
51ST STREET = 500  
53RD STREET = 500  
FAIR ELMS AVENUE = 500  
CAROLINE AVENUE = 500  
55TH STREET = 20,600

**POSTED SPEED LIMIT:**

49TH STREET = 25 MPH  
51ST STREET = 25 MPH  
53RD STREET = 25 MPH  
FAIR ELMS AVENUE = 25 MPH  
CAROLINE AVENUE = 25 MPH  
55TH STREET = 40 MPH

**DESIGN DESIGNATION:**

49TH STREET = LOCAL ROAD  
51ST STREET = LOCAL ROAD  
53RD STREET = LOCAL ROAD  
FAIR ELMS AVENUE = LOCAL ROAD  
CAROLINE AVENUE = LOCAL ROAD  
55TH STREET = MINOR ARTERIAL



**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

APPROVED: 03/21 2011  
*Manish*  
Village of Western Springs,  
Assistant Director of Municipal Services

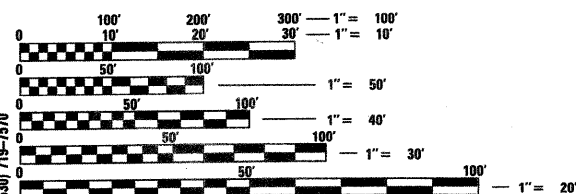
PASSED: APRIL 11 2011  
*Chetan Chatterjee*  
District 1 Engineer of Local Roads & Streets

Releasing for Bid  
Based on Limited  
Review APRIL 11, 2011  
*Diane M. O'Keefe*  
Deputy Director of Highways, Region 1 Engineer

PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS  
**JAMES J. BENES & ASSOCIATES, INC.**

**JAMES J. BENES & ASSOCIATES  
CONSULTING ENGINEERS**  
950 WARRENVILLE ROAD, SUITE 101  
LISLE, IL 60532  
(630) 719-7570  
SIGNATURE: *[Signature]*  
DATE: 03/21/11  
IL LICENSE NO: 062-034438  
EXP. DATE: NOVEMBER 30, 2011  
FIELD: JAMES J. BENES AND ASSOCIATES, INC.  
CIVIL ENGINEERING

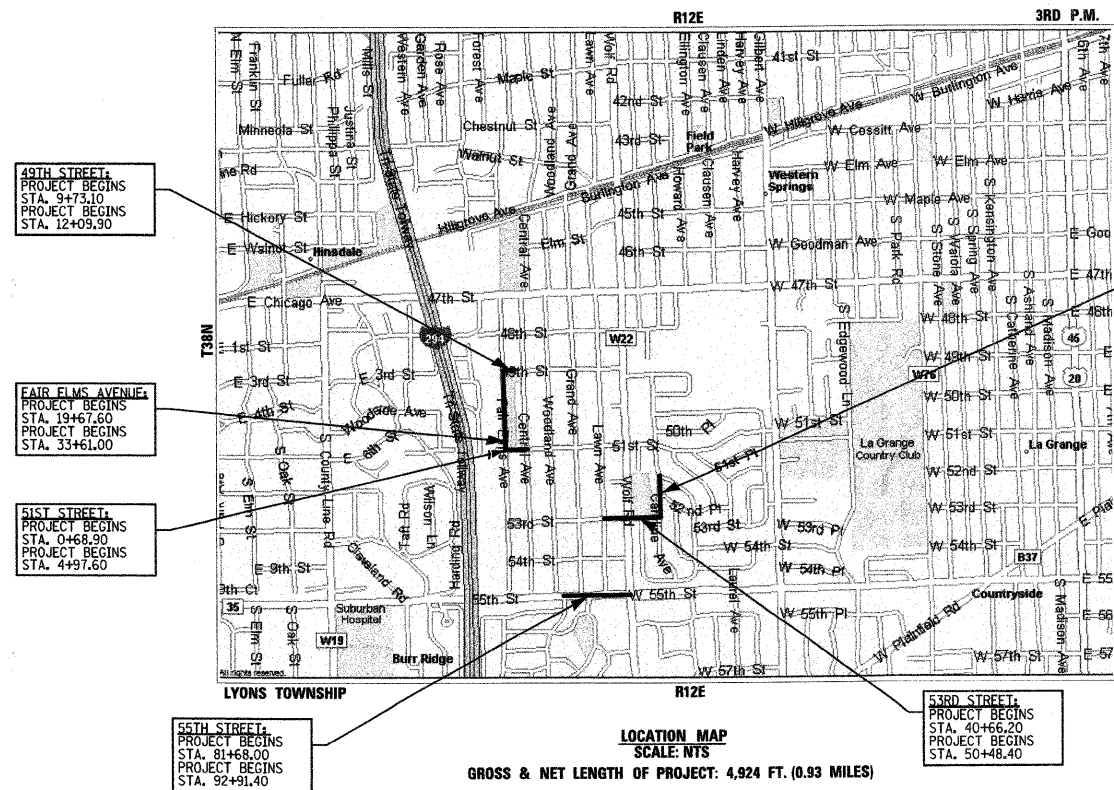
**PROJECT LOCATED IN  
VILLAGE OF WESTERN SPRINGS**



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

**CONTRACT NO. 63596**



**PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLER, P.E. (847) 705-4406, SCHAUMBURG, IL**

**CONSULTANT: JAMES J. BENES & ASSOCIATES, INC. (630) 719-7570**

LIST OF STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-05	CURB RAMPS FOR SIDEWALKS
602301-03	INLET - TYPE A
604001-03	FRAME AND LIDS TYPE 1
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701606-07	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701801-04	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES

LIST OF DISTRICT ONE DETAILS

TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS

BENCH MARKS

- N. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF 51ST STREET AND FAIR ELMS AVENUE (STA. 20+36, 34' LEFT). ELEVATION = 645.91
- CENTER BONNET BOLT ON FIRE HYDRANT. FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF 49TH STREET AND FAIR ELMS AVENUE (STA. 33+64, 34' LEFT). ELEVATION = 645.28
- N.W. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF 53RD STREET AND LAWN AVENUE (STA. 40+33, 20' LEFT). ELEVATION = 649.96
- N.W. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF 53RD STREET AND WOLF ROAD (STA. 44+71, 23' LEFT). ELEVATION = 653.28
- N.W. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT LOCATED ON THE EAST SIDE OF CAROLINE AVENUE AT THE INTERSECTION WITH 53RD STREET (STA. 60+50, 33' RIGHT). ELEVATION = 655.58
- N. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT LOCATED AT THE SOUTHEAST CORNER OF HOWARD AVENUE AND CAROLINE AVENUE (STA. 67+30, 29' RIGHT). ELEVATION = 657.52
- N.W. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF 55TH STREET AND GRAND AVENUE (STA. 84+15, 93' LEFT). ELEVATION = 650.83
- N.W. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF 55TH STREET AND GRAND AVENUE (STA. 88+47, 70' LEFT). ELEVATION = 657.12
- N.W. FLANGE BOLT ON FIRE HYDRANT. FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF 55TH STREET AND WOLF ROAD (STA. 92+77, 78' LEFT). ELEVATION = 644.31

COMMITMENTS: NONE

GENERAL NOTES

- ACCESS TO LOCAL RESIDENCES AND BUSINESSES SHALL BE MAINTAINED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL GIVE THE ENGINEER, MUNICIPALITY, AND JAMES J. BENES AND ASSOCIATES, INC. THREE (3) WORKING DAYS NOTICE PRIOR TO THE COMMENCEMENT OF WORK. (VILLAGE OF WESTERN SPRINGS: (708) 246-1800) (JAMES J. BENES AND ASSOICATES, INC.: (630) 719-7570)
- ALL ELEVATIONS ARE ON U.S.G.S. DATUM.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE ENGINEER OR THE OWNER, SHALL NOT ASSUME ANY OF THE RESPONSIBILITIES OF THE CONTRACTOR'S SUPERINTENDENT OR OF SUBCONTRACTORS. ADDITIONALLY, THE ENGINEER OR OWNER, 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 DURING CONSTRUCTION. THE CONTRACTOR SHALL INSPECT THE SITE DAILY FOR DEBRIS ON THE ROADWAY SURFACE IN ACCORDANCE WITH ARTICLE 107.15. 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 CONTRACT 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 ARE INCLUDED IN THE COST OF THE CONTRACT 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 VILLAGE OF WESTERN SPRINGS.
- 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 CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE MADE BY THE CONTRACTOR TO THE IRRIGATION SYSTEMS AND IT SHALL BE REPAIRED IN ACCORDANCE WITH ARTICLE 107.20. THE CONTRACTOR WILL DETERMINE THE LOCATIONS OF DAMAGE AND EXTENT OF DAMAGE. ALL LOCATIONS OF REPAIR WORK AND EXTENT OF REPAIR SHALL BE APPROVED BY THE ENGINEER PRIOR TO PERFORMING THE WORK. THE SPRINKLER LINES SHALL BE PRESSURE TESTED. ANY PRESSURE LEAKS SHALL BE IDENTIFIED AND REPAIRS MADE PRIOR TO RETESTING THE SYSTEM FOR APPROVAL. ALL MATERIAL, LABOR AND EQUIPMENT USED TO LOCATE, REPAIR AND TEST THE DAMAGED IRRIGATION SYSTEMS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT BID PRICE OF THE CONTROLLING ITEM BEING WORKED ON AT THE TIME OF DAMAGE.
- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2007; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", ADOPTED JANUARY 1, 2011; 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.
- IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.04 OF THE STANDARD SPECIFICATIONS, THE CONTRACTOR WILL BE REQUIRED TO SECURE A PERMIT FROM THE COOK COUNTY HIGHWAY DEPARTMENT FOR ALL WORK WITHIN THE WOLF ROAD RIGHT-OF-WAY. IN ADDITION, THE COOK COUNTY HIGHWAY DEPARTMENT WILL REQUIRE THE CONTRACTOR TO POST A PERMIT BOND TO INSURE THAT THE WORK ON WOLF ROAD MEETS THE REQUIREMENTS OF THE COOK COUNTY HIGHWAY DEPARTMENT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A LETTER ACKNOWLEDGING THAT COOK COUNTY HIGHWAY DEPARTMENT WILL HOLD THE PERMIT BOND FOR ONE YEAR AFTER COMPLETION OF THE CONSTRUCTION WORK.

MWRD TYPICAL GENERAL NOTES

TYPICAL GENERAL NOTES

- THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055).
- ELEVATION DATUM IS U.S.G.S.
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
- ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO:

Pipe Material Spec.	Joint Spec.	Pipe Material Spec.	Joint Spec.
Vitrified Clay Pipe		PVC Gravity Sewer Pipe	
VCP C-700	C-425	6"-15" dia. SDR 26	
VCP (No-Bell) C-700		D-3034	D-3212 or D-2855
Joint Collar	C-425 D-1784		
Concrete Pipe C-14	C-443	18"-27" dia. F/dy=46	
RCP C-76	C-443	F-679	D-3212 or D-2855
ACP C-428	D-1869		
ABS Sewer Pipe		CISP A-74	C-564
Solid Wall 6" dia. SDR 23.5		DIP A-21.51	A-21.11
ABS D-2751	D-2751		
ABS Composite/Truss Pipe			
8"-15" dia.			
ABS D-2680	D-2680		

- ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE 1/2" TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/2 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF PIPE WHEN USING PVC.
- "BAND SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR MATERIALS.
- WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
  - CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SHEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE.
  - REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
  - WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
- WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATERMAIN, THE SEWER SHALL BE CONSTRUCTED TO WATERMAIN STANDARDS.
- ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
- ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
- ALL STRUCTURE (MANHOLE, CATCH BASIN AND INLET) CONNECTIONS SHALL MET THE REQUIREMENTS FOR FLEXIBLE WATER TIGHT CONNECTIONS PER ASTM C923.

FILE NAME =	USER NAME =	DESIGNED -- BDH	REVISED --
		DRAWN -- SMP	REVISED --
	PLOT SCALE =	CHECKED -- BDH	REVISED --
	PLOT DATE =	DATE -- 02-09-11	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, STATE STANDARDS AND BENCH MARKS  
VARIOUS ROUTES


SCALE: NONE SHEET NO. 2 OF 25 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_



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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	09-00090-00-SW	COOK	25	2
			CONTRACT NO. 63596	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SAFETY IMPROVEMENTS	
				80% FED	20% VILLAGE
				0021	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	44	44	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	673	673	
20800150	TRENCH BACKFILL	CU YD	3	3	
25200200	SUPPLEMENTAL WATERING	UNIT	111	111	
28000510	INLET FILTERS	EACH	10	10	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	100	100	
42001300	PROTECTIVE COAT	SQ YD	2,732	2,732	
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	115	115	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	22,178	22,178	
42400800	DETECTABLE WARNINGS	SQ FT	392	392	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	225	225	
44000300	CURB REMOVAL	FOOT	72	72	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	463	463	
44000600	SIDEWALK REMOVAL	SQ FT	2,194	2,194	
44201670	CLASS D PATCHES, TYPE I, 2 INCH	SQ YD	85	85	
550B0050	STORM SEWERS, CLASS B, TYPE 1 12"	FOOT	60	60	
56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	2	2	
60234200	INLETS, TYPE A, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60266600	VALVE BOXES TO BE ADJUSTED	EACH	1	1	
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	5	5	
60600605	CONCRETE CURB, TYPE B	FOOT	72	72	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	585	585	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	48	48	
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	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	234	234	
78008250	POLYUREA PAVEMENT MARKING TYPE I- LINE 12"	FOOT	264	264	
78008270	POLYUREA PAVEMENT MARKING TYPE I- LINE 24"	FOOT	26	26	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	196	196	
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0017400	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	18	18	
Z0017700	DRAINAGE AND UTILITY STRUCTURES TO BE RECONSTRUCTED	EACH	2	2	
Z0066500	STABILIZED DRIVEWAYS 7"	SQ YD	26	26	
X2520650	SODDING, SALT TOLERANT (SPECIAL)	SQ YD	650	650	
X2520700	SODDING, SPECIAL	SQ YD	4,625	4,625	
X4400500	COMBINATION CURB AND GUTTER REMOVAL (SPECIAL)	FOOT	170	170	
X8140115	HANDHOLE TO BE ADJUSTED	EACH	1	1	
XX003313	REMOVE AND REINSTALL BRICK PAVER	SQ FT	14	14	
XX007761	BUFFALO BOX ADJUSTMENT, SPECIAL	EACH	2	2	

LEGEND  
 - DENOTES SPECIALTY ITEM

**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 -- BDH	REVISED --
		DRAWN -- SMP	REVISED --
		CHECKED -- BDH	REVISED --
		DATE -- 02-09-11	REVISED --

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
 VARIOUS ROUTES

SCALE: NONE SHEET NO. 3 OF 25 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	09-00090-00-SW	COOK	25	3
			CONTRACT NO. 63596	
ILLINOIS FED. AID PROJECT				

DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>51ST STREET</b>		
4+33	2' RT	1
4+41	28' RT	1
<b>53RD STREET</b>		
40+87	2' LT	1
47+40	8' LT	1
<b>55TH STREET</b>		
82+88	11' RT	1
84+94	4' RT	1
92+60	10' RT	1
<b>FAIR ELMS AVENUE</b>		
32+98	25' LT	1
<b>CAROLINE AVENUE</b>		
60+66	9' LT	1
60+68	3' LT	1
60+71	33' RT	1
62+56	5' LT	1
64+04	1' LT	1
64+11	8' LT	1
64+16	4' LT	1
64+18	28' RT	1
64+55	30' RT	1
67+58	33' RT	1
TOTAL QUANTITY =		18

INLET FILTERS		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>49TH STREET</b>		
10+60	1' LT	1
<b>53RD STREET</b>		
40+87	2' LT	1
44+50	26' RT	1
47+15	1' LT	1
<b>55TH STREET</b>		
83+02	26' RT	1
<b>FAIR ELMS AVENUE</b>		
20+19	4' RT	1
26+98	2' LT	1
32+50	5' RT	1
<b>CAROLINE AVENUE</b>		
60+68	3' LT	1
64+04	1' LT	1
TOTAL QUANTITY =		10

DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>FAIR ELMS AVENUE</b>		
19+67	30' LT	1
20+33	30' LT	1
TOTAL QUANTITY =		2

FRAME AND LIDS, TYPE 1, CLOSED LID		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>FAIR ELMS AVENUE</b>		
19+67	30' LT	1
20+33	30' LT	1
<b>CAROLINE AVENUE</b>		
60+66	9' LT	1
64+11	8' LT	1
64+16	4' LT	1
TOTAL QUANTITY =		5

HANDHOLE TO BE ADJUSTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>55TH STREET</b>		
97+67	8' RT	1
TOTAL QUANTITY =		1

VALVE BOXES TO BE ADJUSTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>FAIR ELMS AVENUE</b>		
20+35	37' LT	1
TOTAL QUANTITY =		1

DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>FAIR ELMS AVENUE</b>		
33+63	30' LT	1
<b>CAROLINE AVENUE</b>		
64+20	4' LT	1
TOTAL QUANTITY =		2

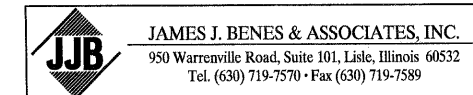
BUFFALO BOX ADJUSTMENT, SPECIAL		
STATION	OFFSET (FEET)	QUANTITY (EACH)
<b>FAIR ELMS AVENUE</b>		
24+81	15' RT	1
29+58	10' RT	1
TOTAL QUANTITY =		2

TREE REMOVAL (OVER 15 UNITS DIAMETER)		
STATION	OFFSET (FEET)	QUANTITY (UNIT)
<b>CAROLINE AVENUE</b>		
62+46	12' LT	24
63+67	11' LT	20
TOTAL QUANTITY =		44

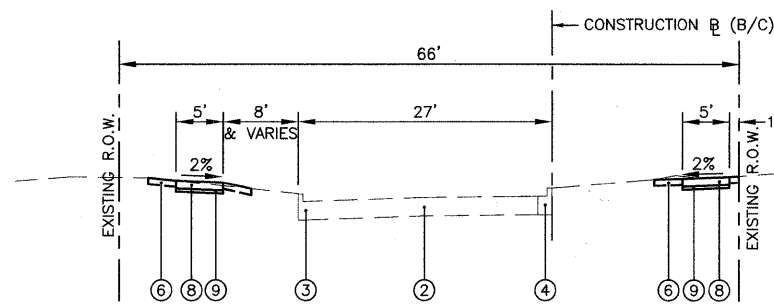
DRIVEWAY QUANTITY SCHEDULE						
STATION	OFFSET	EXISTING PAVEMENT	REMOVE AND REINSTALL BRICK PAVEMENT (SQ. FT.)	DRIVEWAY PAVEMENT REMOVAL (SQ. YD.)	STABILIZED DRIVEWAYS 7" (SQ. YD.)	P.C.C. DRIVEWAY PAVMT 7 INCH (SQ. YD.)
<b>49th Street</b>						
11+42	RT	PCC		33		25
<b>51st Street</b>						
2+45	RT	BRICK	14			
<b>53rd Street</b>						
42+50	LT	HMA		37	12	
43+50	RT	PCC		50		36
<b>Fair Elms Avenue</b>						
24+95	RT	HMA		19	7	
29+35	RT	PCC		26		20
29+88	RT	PCC		24		18
30+43	RT	PCC		20		16
31+20	RT	HMA		17	7	
TOTAL QUANTITY =			14	225	26	115

EARTHWORK	
LOCATION	REMOVAL & DISPOSAL OF UNSUITABLE MAT.* (CU YD)
49TH STREET: FAIR ELMS AVENUE TO STA. 12+09.90	30
51ST STREET: FAIR ELMS AVENUE TO CENTRAL AVENUE	77
53RD STREET: LAWN AVENUE TO CAROLINE AVENUE	133
55TH STREET: WOODLAND AVENUE TO WOLF ROAD	79
FAIR ELMS AVENUE: 49TH STREET TO 51ST STREET	248
CAROLINE AVENUE: 53RD STREET TO HOWARD AVENUE	106
TOTAL QUANTITY =	673

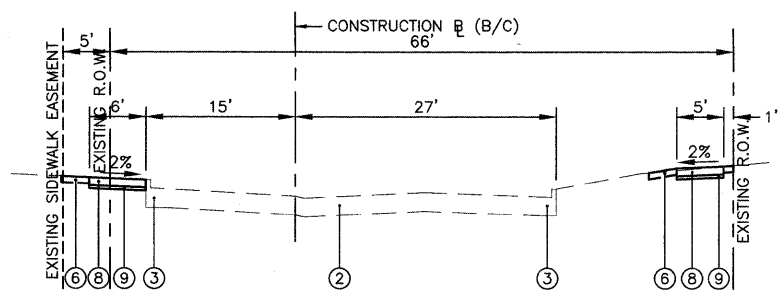
\*ALL CUT MATERIAL SHALL BE HAULED OFF SITE DUE TO NO ONSITE STORAGE LOCATION



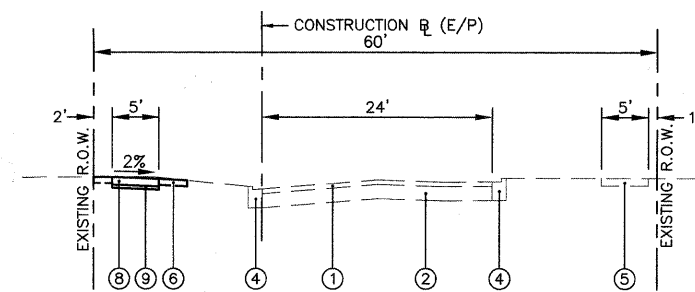




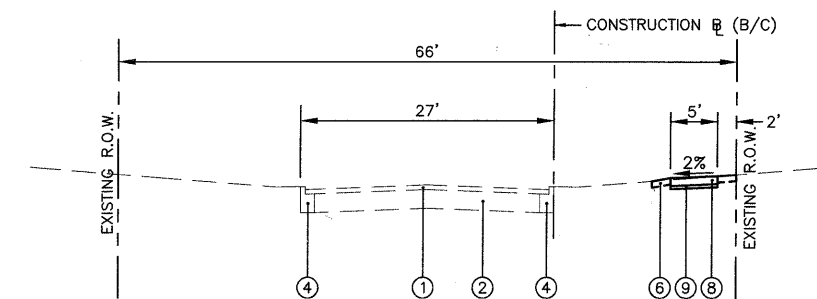
**PROPOSED TYPICAL SECTION-51ST STREET**  
 STA. 0+68.90 (FAIRL ELMS AVE.) TO STA. 4+97.60 (CENTRAL AVE.)  
 (SECTION LOOKING EAST)



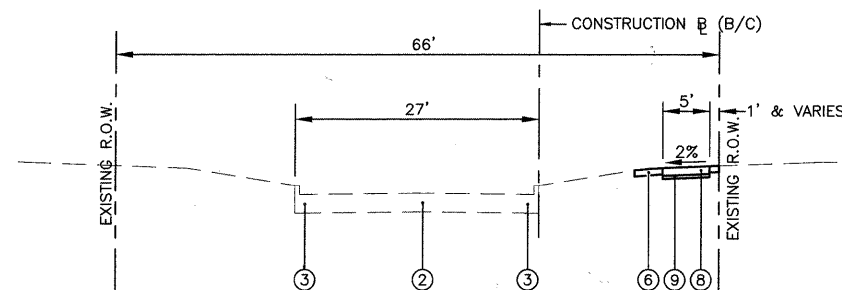
**PROPOSED TYPICAL SECTION-53RD STREET**  
 STA. 40+66.20 (LAWN AVE.) TO STA. 45+00.00 (WOLF RD.)  
 (SECTION LOOKING EAST)



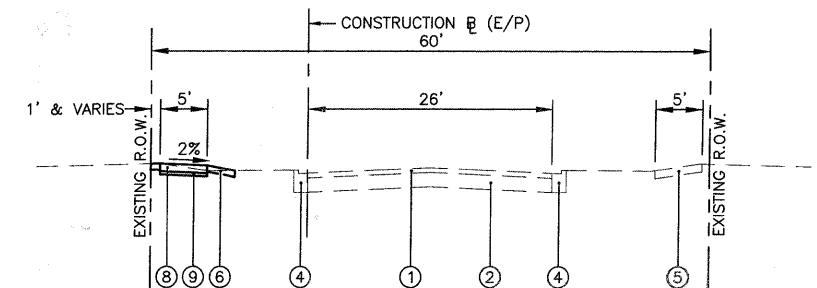
**PROPOSED TYPICAL SECTION-53RD STREET**  
 STA. 45+00.00 (WOLF RD.) TO STA. 50+48.40 (CAROLINE AVE.)  
 (SECTION LOOKING EAST)



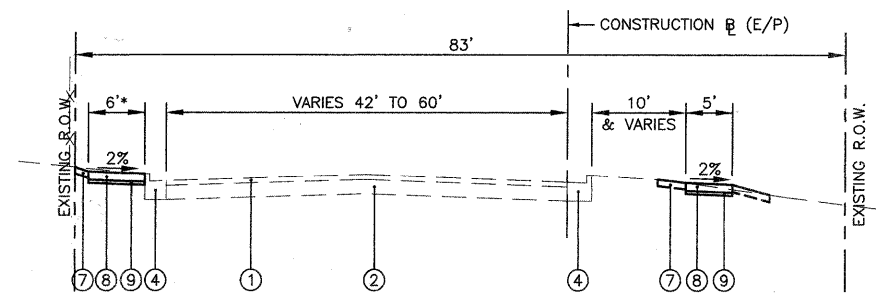
**PROPOSED TYPICAL SECTION-49TH STREET**  
 STA. 9+73.10 (FAIRL ELMS AVE.) TO STA. 12+09.90  
 (SECTION LOOKING EAST)



**PROPOSED TYPICAL SECTION-FAIR ELMS AVENUE**  
 STA. 19+67.60 (51ST STREET) TO STA. 33+61.00 (49TH STREET)  
 (SECTION LOOKING NORTH)



**PROPOSED TYPICAL SECTION-CAROLINE AVENUE**  
 STA. 60+25.30 (53RD ST.) TO STA. 67+84.70 (HOWARD AVE.)  
 (SECTION LOOKING NORTH)



**PROPOSED TYPICAL SECTION-55TH STREET**  
 STA. 80+09.00 (WOODLAND AVE.) TO STA. 92+91.40 (WOLF RD.)  
 (SECTION LOOKING EAST)

**LEGEND**

- ① EXISTING HOT-MIX ASPHALT SURFACE COURSE, THICKNESS VARIES
- ② EXISTING P.C.C. PAVEMENT, THICKNESS VARIES
- ③ EXISTING CONCRETE CURB AND GUTTER (MONOLITHIC WITH PAVEMENT)
- ④ EXISTING CONCRETE CURB AND GUTTER
- ⑤ EXISTING CONCRETE SIDEWALK
- ⑥ SODDING, SPECIAL  
(INCLUDES 4" PULVERIZED TOP SOIL AND FERTILIZER)  
(AT LOCATIONS DESIGNATED BY THE ENGINEER)
- ⑦ SODDING, SALT TOLERANT (SPECIAL)  
(INCLUDES 4" PULVERIZED TOP SOIL AND FERTILIZER)  
(AT LOCATIONS DESIGNATED BY THE ENGINEER)
- ⑧ 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")
- ⑨ SUB-BASE GRANULAR MATERIAL, TYPE B 2"  
(COST INCLUDED IN P.C.C. SIDEWALK 5")

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIXTURE TYPE	VOIDS
<b>DRIVEWAYS</b>	
HOT-MIX ASPHALT BASE COURSE, 5" (HMA BINDER IL-19mm) (IN 2 LIFTS)	4% @ 50 Gyr.
HOT-MIX ASPHALT SURFACE COURSE, MIX "C" NS0, 2" (IL-9.5mm)	4% @ 50 Gyr.
<b>PATCHING</b>	
CLASS D PATCHES, 2" (HMA BINDER IL-19mm)	4% @ 70 Gyr.

NOTE: 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 70-22" 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.

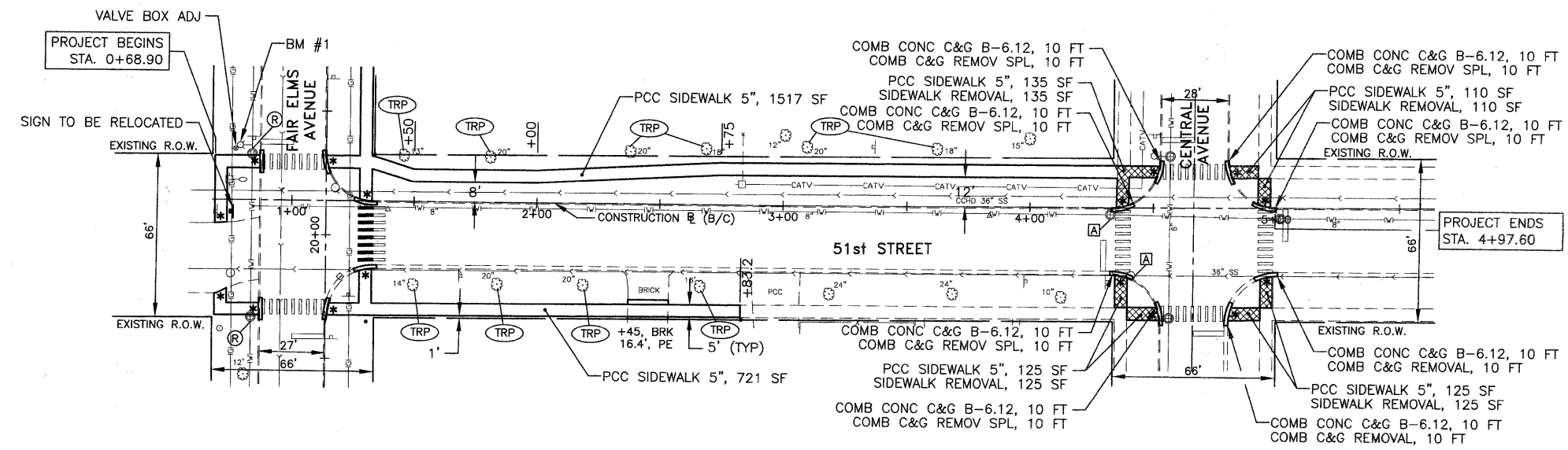
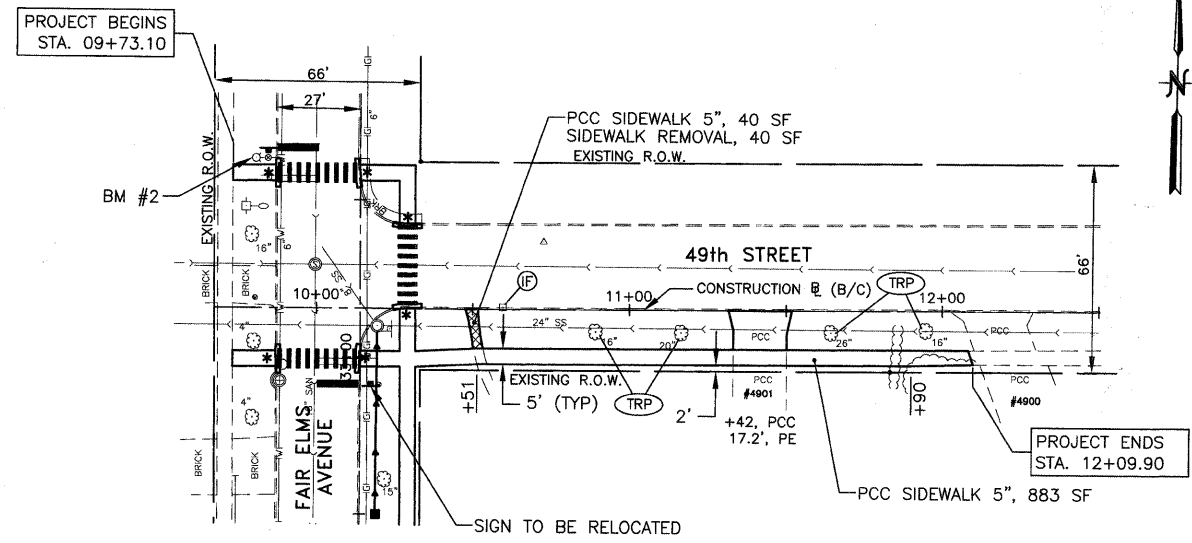
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		DRAWN -- SMP	REVISED --
	PLOT SCALE =	CHECKED -- BDH	REVISED --
	PLOT DATE =	DATE -- 02-09-11	REVISED --

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS  
 VARIOUS ROUTES**

SCALE: NONE SHEET NO. 5 OF 25 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

<b>JJB</b> JAMES J. BENES & ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 • Fax (630) 719-7589				
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	09-00090-00-SW	COOK	25	5
			CONTRACT NO. 63596	
ILLINOIS FED. AID PROJECT				



**LEGEND**

[A]	STRUCTURE TO BE ADJUSTED
(A)	STRUCTURE TO BE ADJUSTED WITH NEW FRAME AND LID
[R]	STRUCTURE TO BE RECONSTRUCTED
(R)	STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME AND LID
*	DETECTABLE WARNINGS ON SIDEWALK RAMPS
[X]	SIDEWALK REMOVAL
(TRP)	TREE ROOT PRUNING (BY OTHERS)
(IF)	INLET FILTERS

- NOTES:**
- 1) DRIVEWAY LIMITS ARE 2 FEET FROM EDGE OF SIDEWALK, UNLESS OTHERWISE NOTED.
  - 2) PAVEMENT MARKINGS SHALL BE POLYUREA ON 49TH STREET AND 51ST STREET.
  - 3) FINE GRADING OF PARKWAY TO PROVIDE POSITIVE DRAINAGE SHALL BE INCLUDED IN THE COST OF SODDING, SPECIAL.

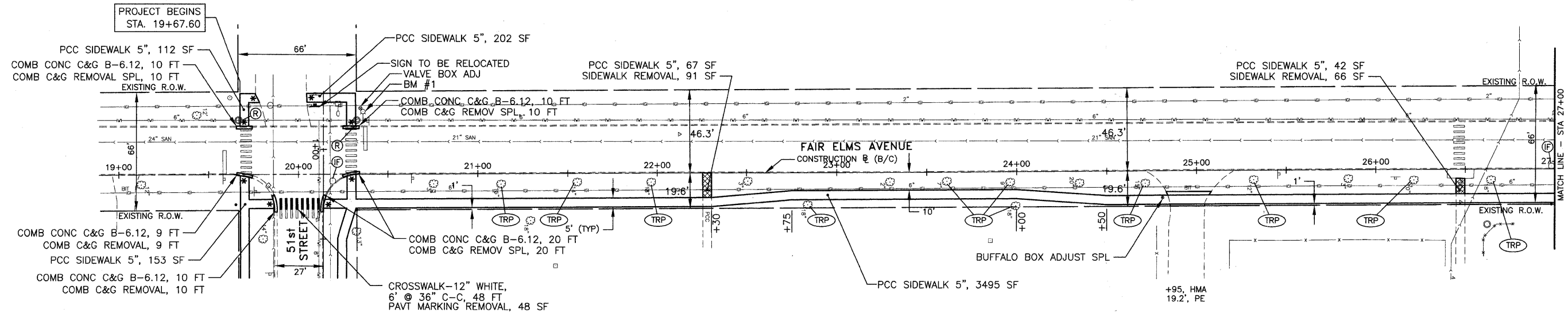
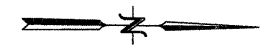
<b>JJB</b>		<b>JAMES J. BENES &amp; ASSOCIATES, INC.</b>			
		950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 • Fax (630) 719-7589			
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
1504	09-00090-00-SW	COOK	25	6	
CONTRACT NO. 63596					
ILLINOIS FED. AID PROJECT					

FILE NAME =	USER NAME =	DESIGNED — BDH	REVISED —
		DRAWN — SMP	REVISED —
		CHECKED — BDH	REVISED —
		DATE 02-09-11	REVISED —

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GEOMETRIC PLAN  
49TH STREET & 51ST STREET**

SCALE: 1"=30' SHEET NO. 6 OF 25 SHEETS STA. 0+60 TO STA. 5+50 STA. 9+70 TO STA. 12+50



PROJECT BEGINS  
STA. 19+67.60

PROJECT ENDS  
STA. 33+61.00

**STORM SEWERS**

PIPE NO.	LENGTH (FOOT)	DESCRIPTION	MATERIAL	TYPE	DI. (IN.)	SLOPE % (CU. YD.)	TBF
P-1	60	STORM SEW CL B	PVC SDR26	1	12	1.00	3

**STORM SEWER STRUCTURES**

STRUCT. NO.	STATION	OFFSET	STRUCTURE TYPE	RIM	INVERT			
					NORTH	SOUTH	EAST	WEST
S-1	32+50	5' RT	INLETS TA TIF CL	642.40	639.80			
S-2	33+10	5' RT	DRAIN UTIL STR RECON	643.68	639.58	639.00	638.80	638.80

- NOTES:**
- 1) DRIVEWAY LIMITS ARE 2 FEET FROM EDGE OF SIDEWALK, UNLESS OTHERWISE NOTED.
  - 2) PAVEMENT MARKINGS SHALL BE POLYUREA ON FAIR ELMS AVENUE.
  - 3) FINE GRADING OF PARKWAY TO PROVIDE POSITIVE DRAINAGE SHALL BE INCLUDED IN THE COST OF SODDING, SPECIAL.

**LEGEND**

- [A] STRUCTURE TO BE ADJUSTED
- [A] STRUCTURE TO BE ADJUSTED WITH NEW FRAME AND LID
- [R] STRUCTURE TO BE RECONSTRUCTED
- [R] STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME AND LID
- \* DETECTABLE WARNINGS ON SIDEWALK RAMPS
- [X] SIDEWALK REMOVAL
- (TRP) TREE ROOT PRUNING (BY OTHERS)
- (F) INLET FILTERS

FILE NAME =	USER NAME =	DESIGNED -- BDH	REVISED --
		DRAWN -- SMP	REVISED --
		CHECKED -- BDH	REVISED --
		DATE -- 02-09-11	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

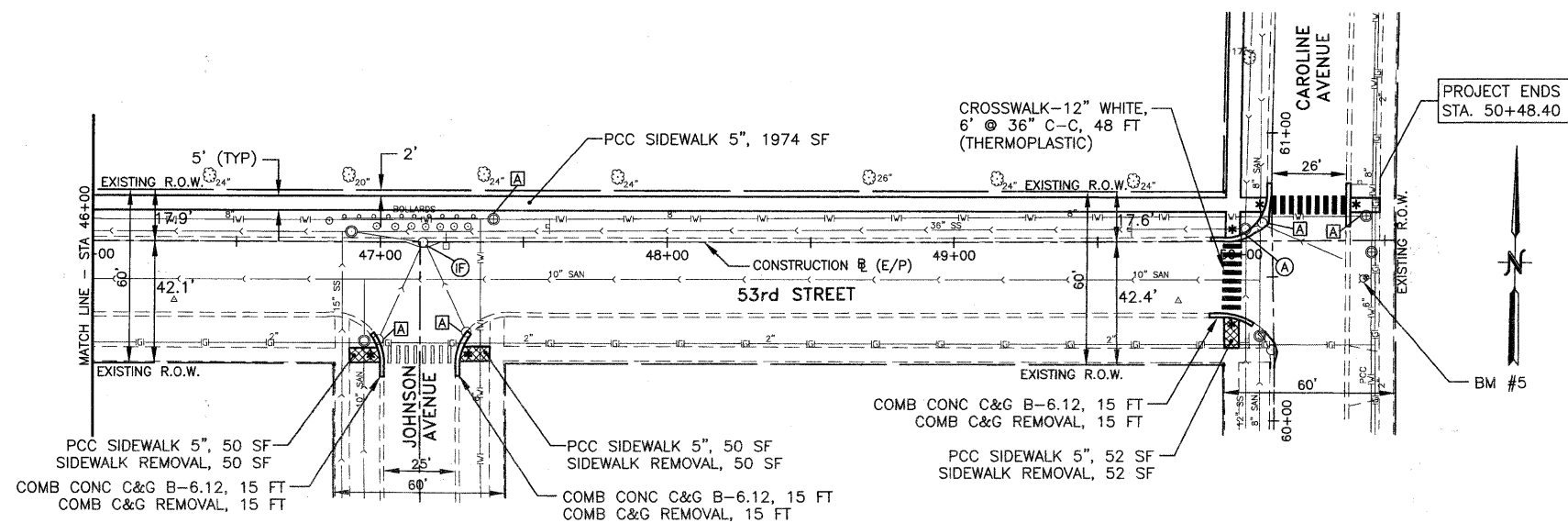
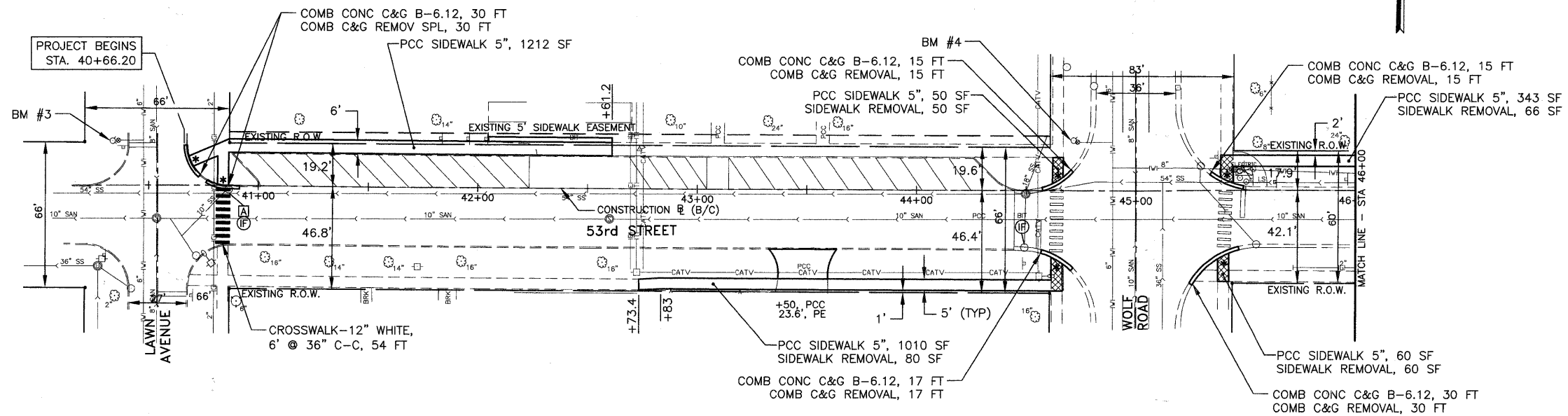
**GEOMETRIC PLAN  
FAIR ELMS AVENUE**

SCALE: 1"=30' SHEET NO. 7 OF 25 SHEETS STA. 19+00 TO STA. 33+65

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	09-00090-00-SW	COOK	25	7

CONTRACT NO. 63596  
ILLINOIS FED. AID PROJECT



**LEGEND**

[A]	STRUCTURE TO BE ADJUSTED
(A)	STRUCTURE TO BE ADJUSTED WITH NEW FRAME AND LID
[R]	STRUCTURE TO BE RECONSTRUCTED
(R)	STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME AND LID
*	DETECTABLE WARNINGS ON SIDEWALK RAMPS
[X]	SIDEWALK REMOVAL
(TRP)	TREE ROOT PRUNING (BY OTHERS)
(F)	INLET FILTERS

- NOTES:**
- 1) DRIVEWAY LIMITS ARE 2 FEET FROM EDGE OF SIDEWALK, UNLESS OTHERWISE NOTED.
  - 2) PAVEMENT MARKINGS SHALL BE POLYUREA ON 53RD STREET UNLESS NOTED OTHERWISE.
  - 3) FINE GRADING OF PARKWAY TO PROVIDE POSITIVE DRAINAGE SHALL BE INCLUDED IN THE COST OF SODDING, SPECIAL.

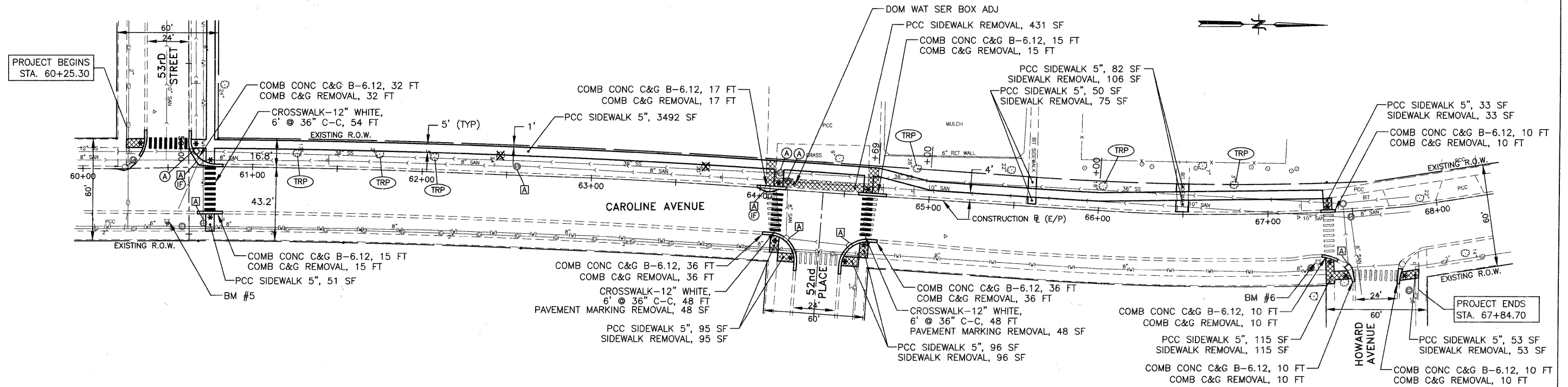
<b>JJB</b> <b>JAMES J. BENES &amp; ASSOCIATES, INC.</b>				
950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 • Fax (630) 719-7589				
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	09-00090-00-SW	COOK	25	8
			CONTRACT NO. 63596	
ILLINOIS FED. AID PROJECT				

FILE NAME =	USER NAME =	DESIGNED — BDH	REVISED —
		DRAWN — SMP	REVISED —
		CHECKED — BDH	REVISED —
		DATE — 02-09-11	REVISED —

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GEOMETRIC PLAN  
53RD STREET**

SCALE: 1"=30'      SHEET NO. 8 OF 25 SHEETS      STA. 40+50 TO STA. 55+50



PROJECT BEGINS  
STA. 60+25.30

PROJECT ENDS  
STA. 67+84.70

**LEGEND**

- [A] STRUCTURE TO BE ADJUSTED
- (A) STRUCTURE TO BE ADJUSTED WITH NEW FRAME AND LID
- [R] STRUCTURE TO BE RECONSTRUCTED
- (R) STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME AND LID
- \* DETECTABLE WARNINGS ON SIDEWALK RAMPS
- [X] SIDEWALK REMOVAL
- (TRP) TREE ROOT PRUNING (BY OTHERS)
- (IF) INLET FILTERS

**NOTES:**

- 1) DRIVEWAY LIMITS ARE 2 FEET FROM EDGE OF SIDEWALK, UNLESS OTHERWISE NOTED.
- 2) PAVEMENT MARKINGS SHALL BE THERMOPLASTIC ON CAROLINE AVENUE.
- 3) FINE GRADING OF PARKWAY TO PROVIDE POSITIVE DRAINAGE SHALL BE INCLUDED IN THE COST OF SODDING, SPECIAL.

<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.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	09-00090-00-SW	COOK	25	9
CONTRACT NO. 63596				ILLINOIS FED. AID PROJECT

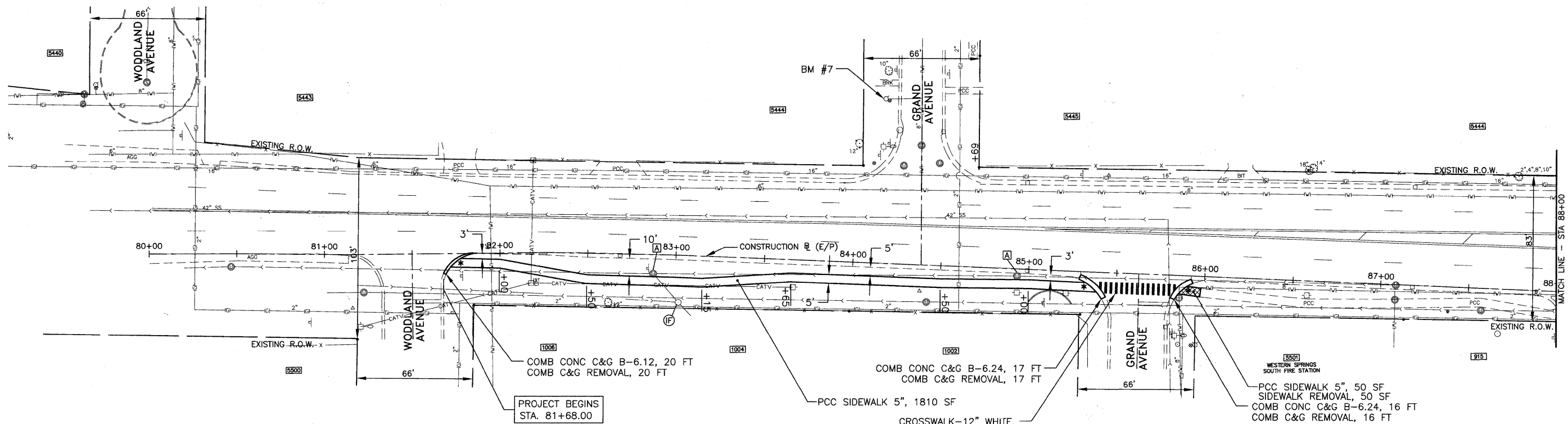
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		CHECKED — BDH	REVISED —
		DATE — 02-09-11	REVISED —

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GEOMETRIC PLAN  
CAROLINE AVENUE**

SCALE: NONE    SHEET NO. 9 OF 25 SHEETS    STA. 60+00 TO STA. 68+00

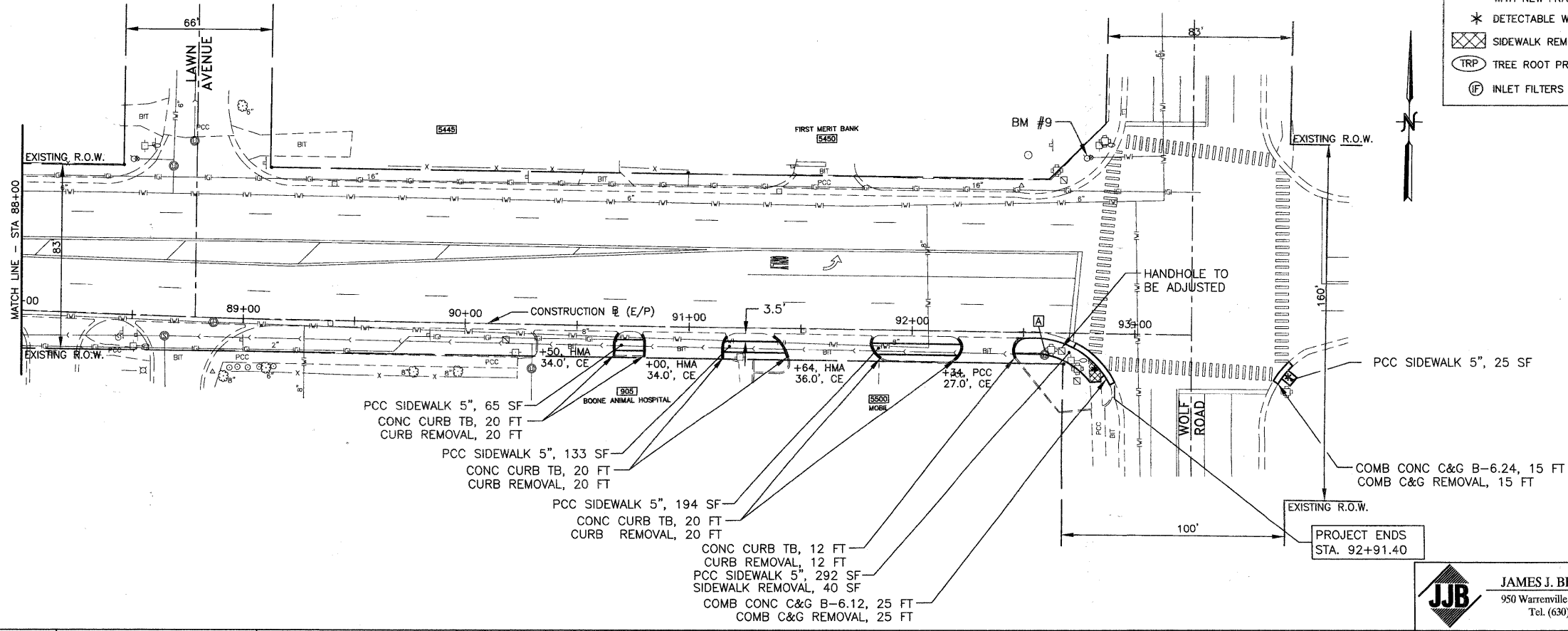




- NOTES:**
- 1) PAVEMENT MARKINGS SHALL BE THERMOPLASTIC ON 55TH STREET.
  - 2) FINE GRADING OF PARKWAY TO PROVIDE POSITIVE DRAINAGE SHALL BE INCLUDED IN THE COST OF SODDING, SPECIAL.

**LEGEND**

[A]	STRUCTURE TO BE ADJUSTED
(A)	STRUCTURE TO BE ADJUSTED WITH NEW FRAME AND LID
[R]	STRUCTURE TO BE RECONSTRUCTED
(R)	STRUCTURE TO BE RECONSTRUCTED WITH NEW FRAME AND LID
*	DETECTABLE WARNINGS ON SIDEWALK RAMPS
[X]	SIDEWALK REMOVAL
(TRP)	TREE ROOT PRUNING (BY OTHERS)
(IF)	INLET FILTERS



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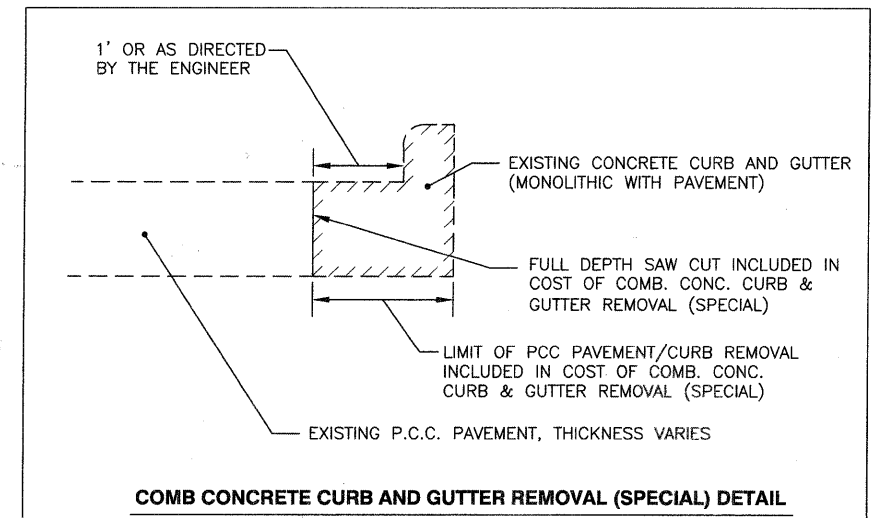
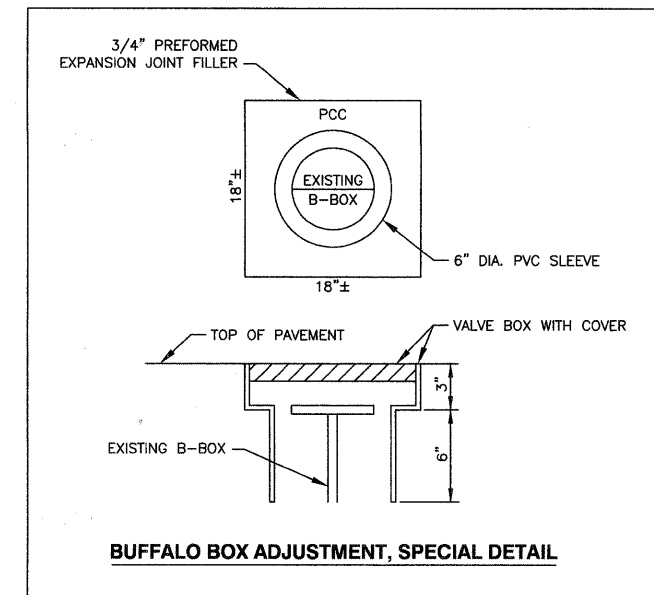
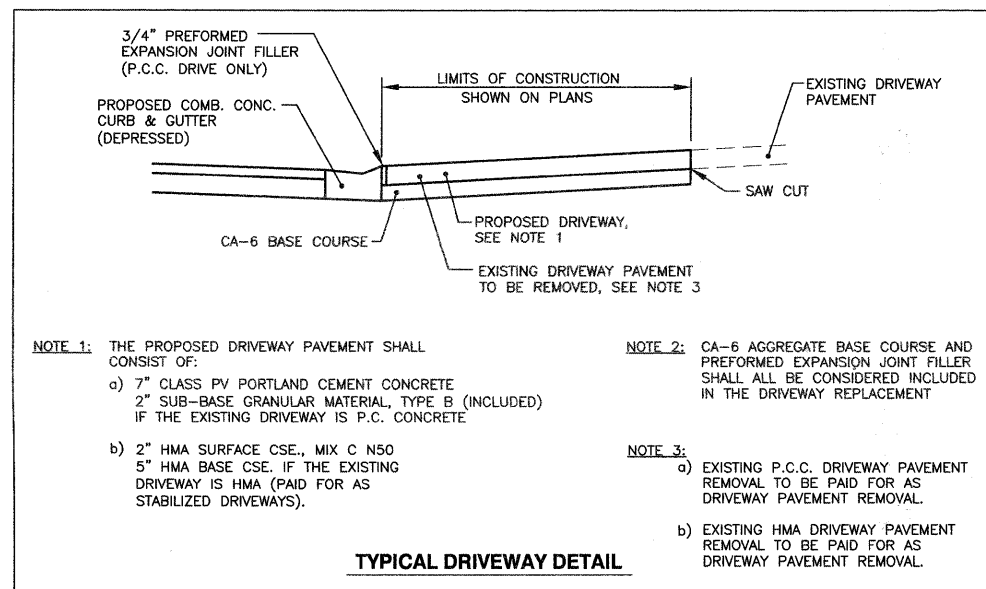
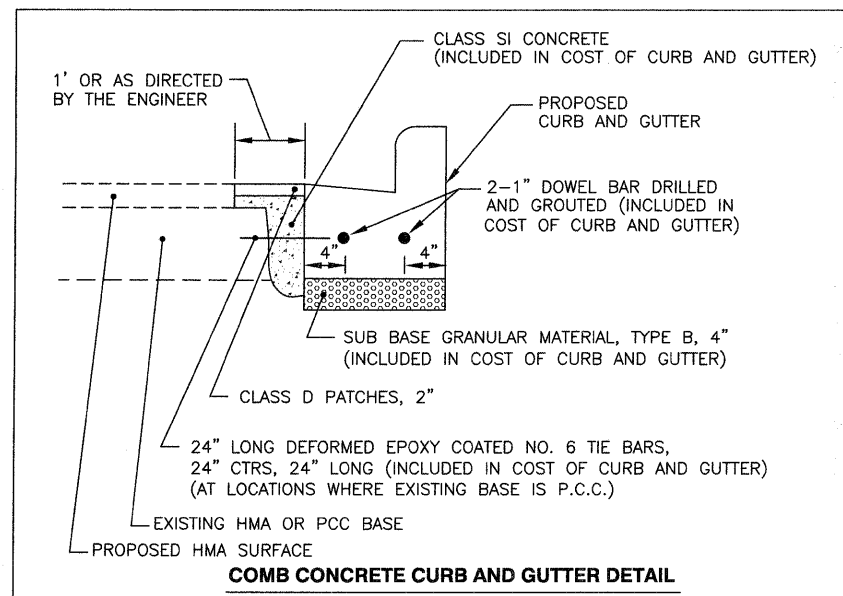
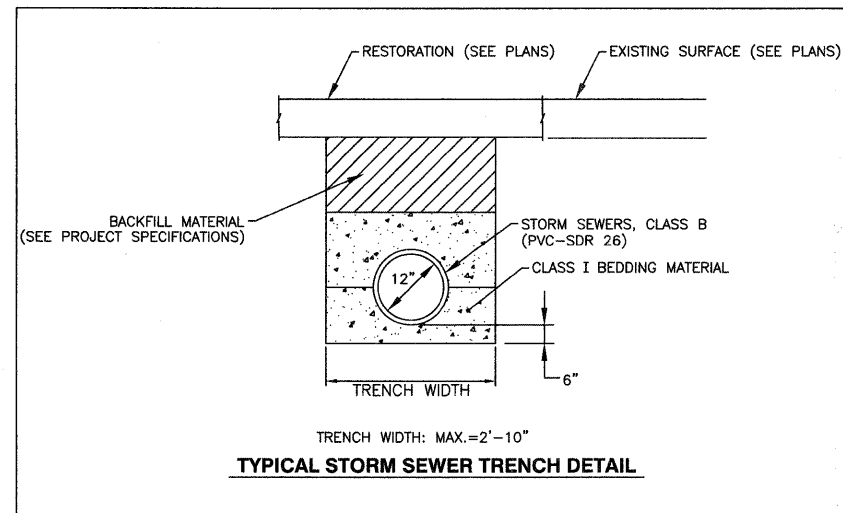
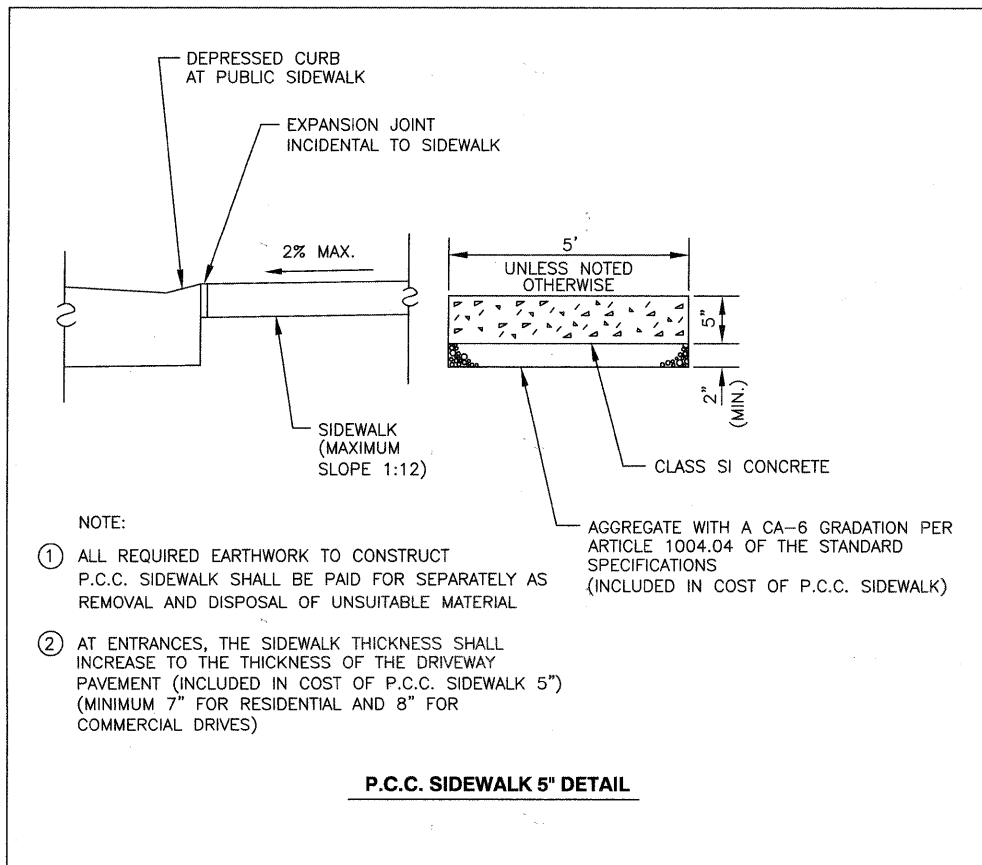
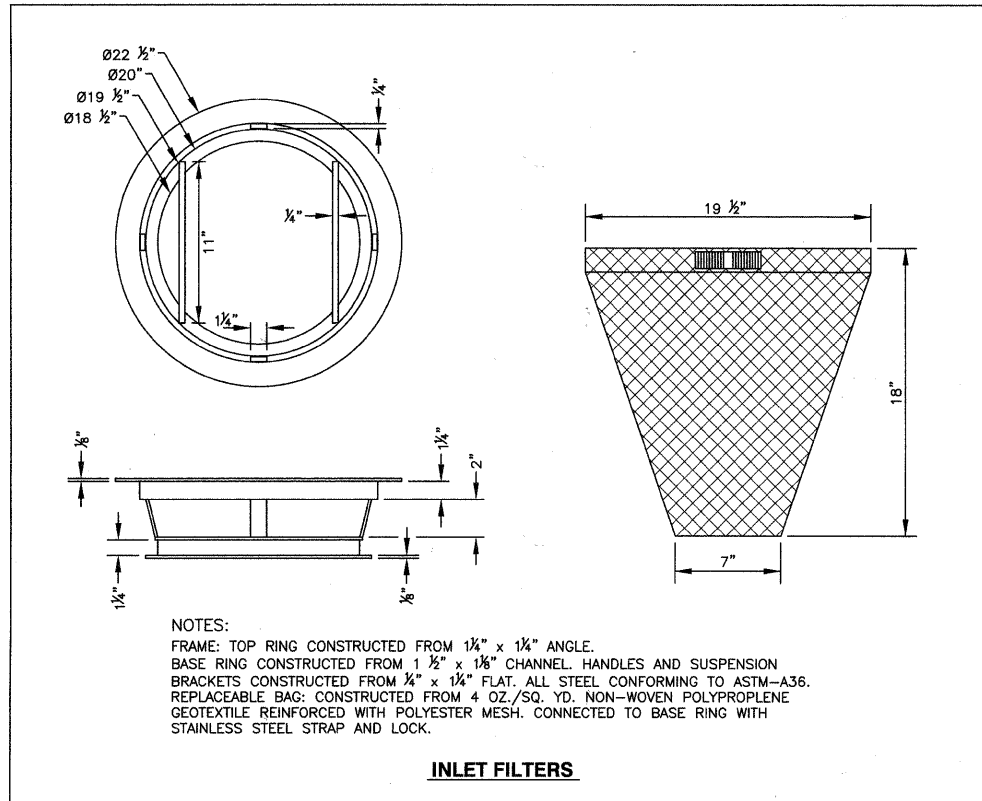
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GEOMETRIC PLAN  
55TH STREET**

SCALE: 1"=30' SHEET NO. 10 OF 25 SHEETS STA. 80+00 TO STA. 93+25

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Tel. (630) 719-7570 • Fax (630) 719-7589

F.A.U. RTE. 1504	SECTION 09-00090-00-SW	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 10
CONTRACT NO. 63596				
ILLINOIS FED. AID PROJECT				



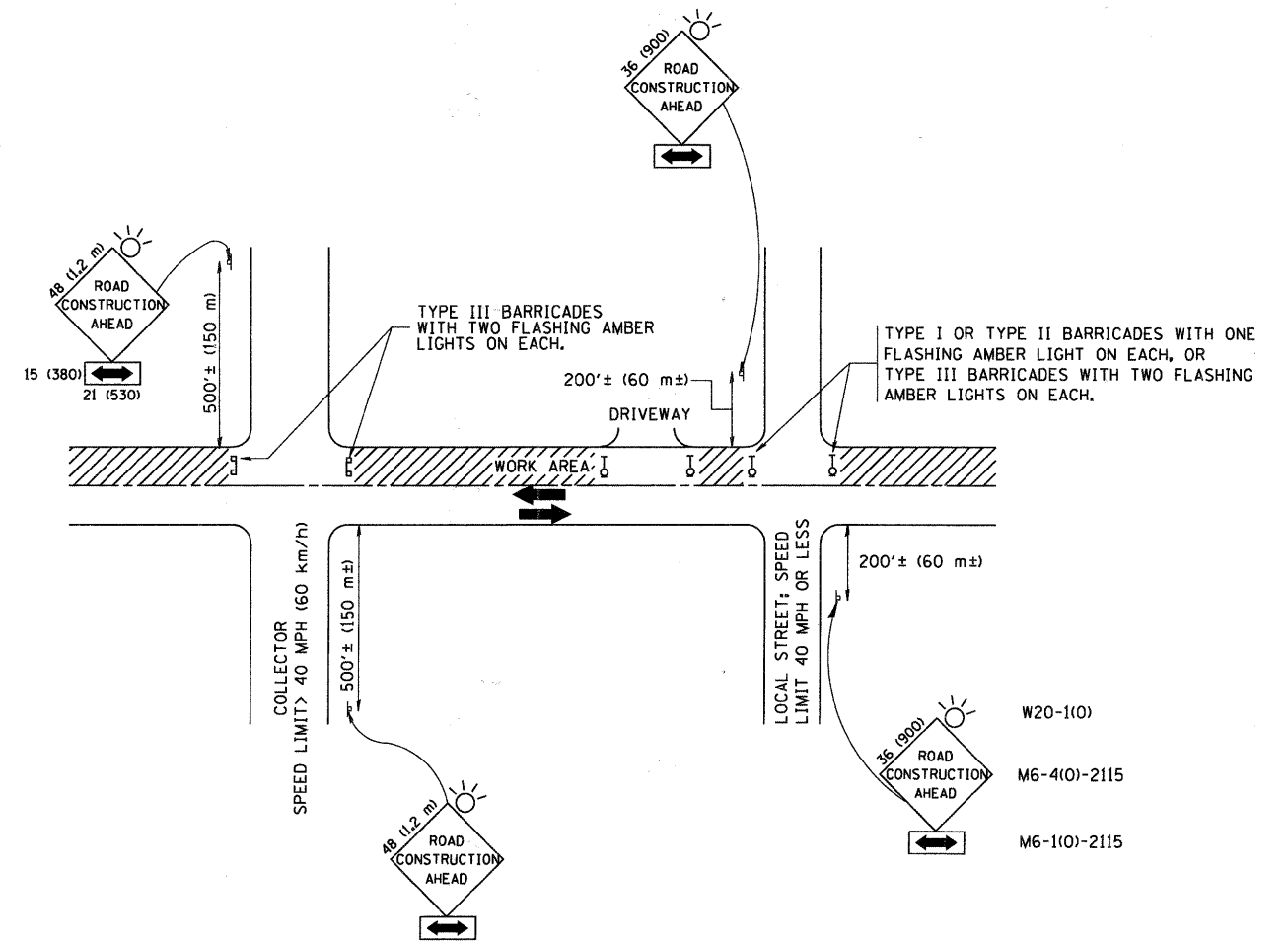
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		DRAWN — SMP	REVISED —
		CHECKED — BDH	REVISED —
		DATE — 02-09-11	REVISED —

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS  
VARIOUS ROUTES

SCALE: NONE SHEET NO. 11 OF 25 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

<b>JJB</b> JAMES J. BENES & ASSOCIATES, INC. 950 Warrenville Road, Suite 101, Lisle, Illinois 60532 Tel. (630) 719-7570 • Fax (630) 719-7589				
F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	09-00090-00-SW	COOK	25	11
			CONTRACT NO. 63596	
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.

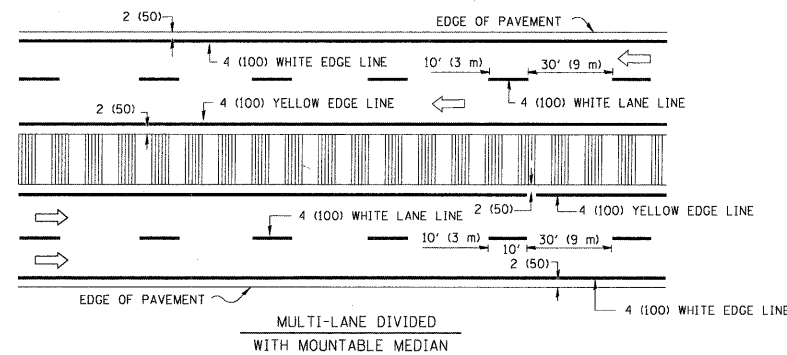
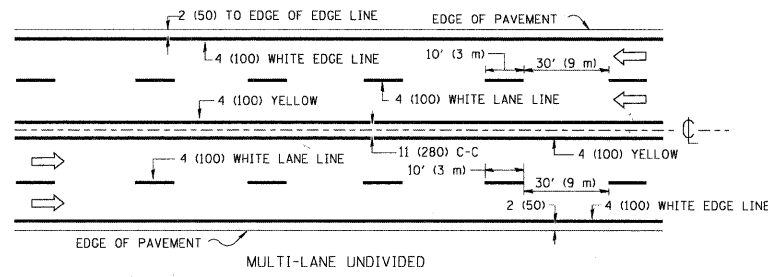
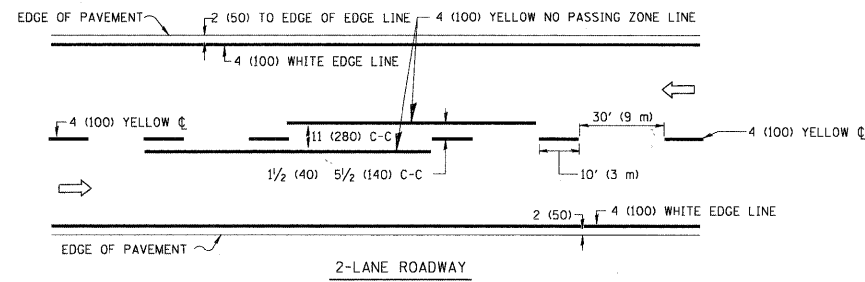
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		CHECKED -	REVISED - A. HOUSEH 10-15-96
		DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

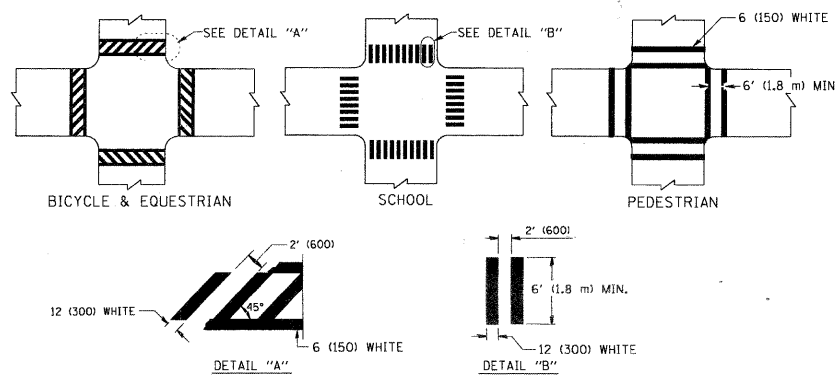
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE. 1504	SECTION 09-00090-00-SW	COUNTY DuPAGE	TOTAL SHEETS 25	SHEET NO. 12
TC-10			CONTRACT NO. 63596	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

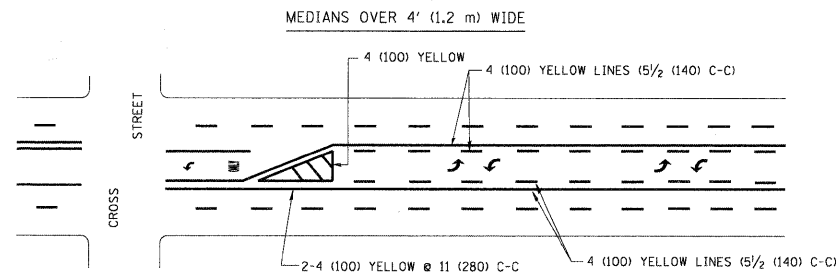
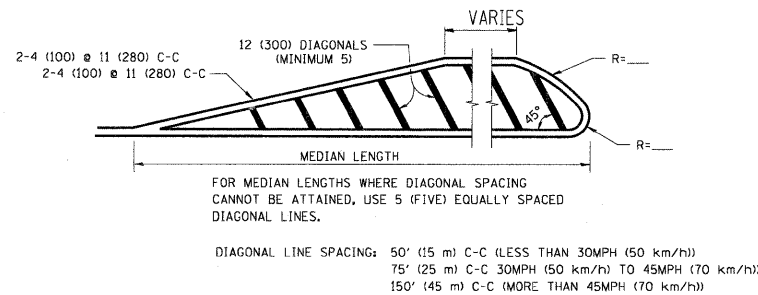
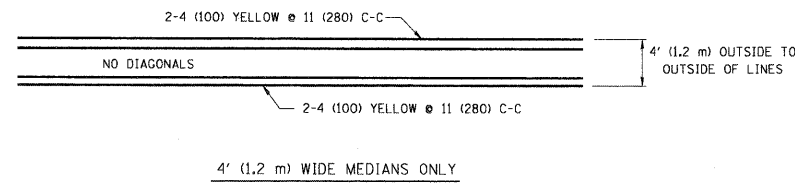


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

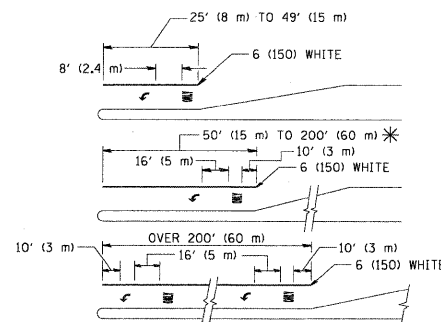
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



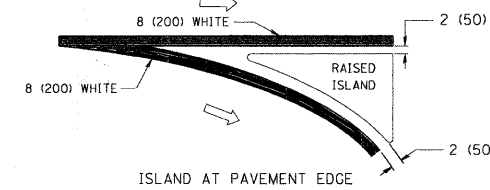
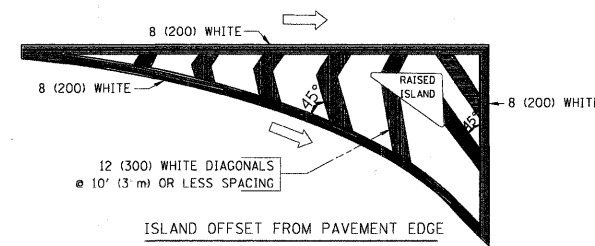
TYPICAL PAINTED MEDIAN MARKING



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 LEFT (OR RIGHT) TURN LANE

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" 15' (4.5 m) 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.

FILE NAME =	USER NAME = drivakosgn	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
as:\pw_work\pwidot\drivakosgn\d0188315\3.dgn		DRAWN -	REVISED - C. JUICIUS 09-09-09
	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

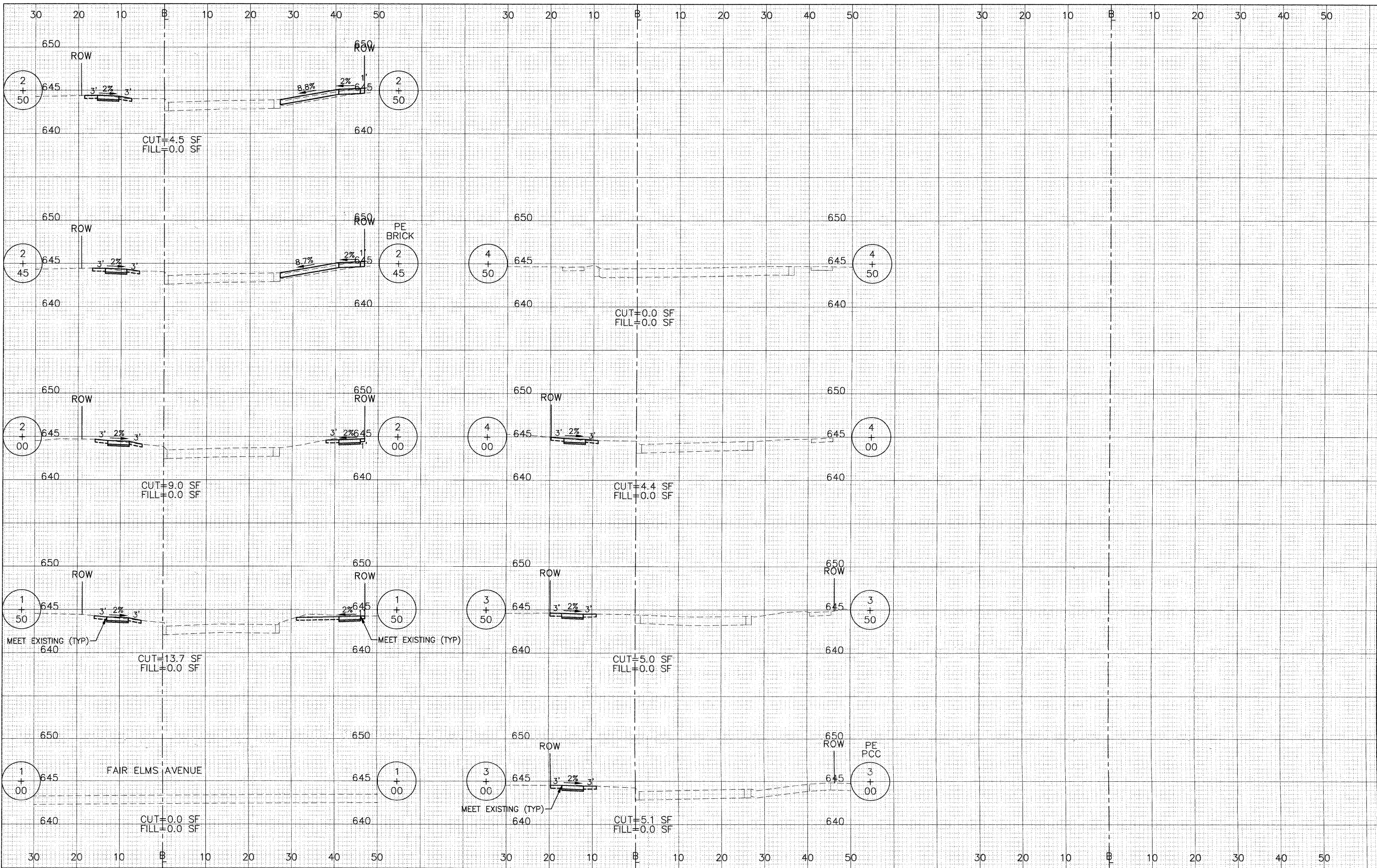
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	F.A.U. RTE. 1504	SECTION 09-00090-00-SW	COUNTY DuPAGE	TOTAL SHEETS 25	SHEET NO. 13
			TC-13		CONTRACT NO. 63596		
			FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

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PLOTTED	
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NO. OF SHEETS	
AREAS CHECKED	
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ORIGINAL SURVEY	
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NO. OF SHEETS	
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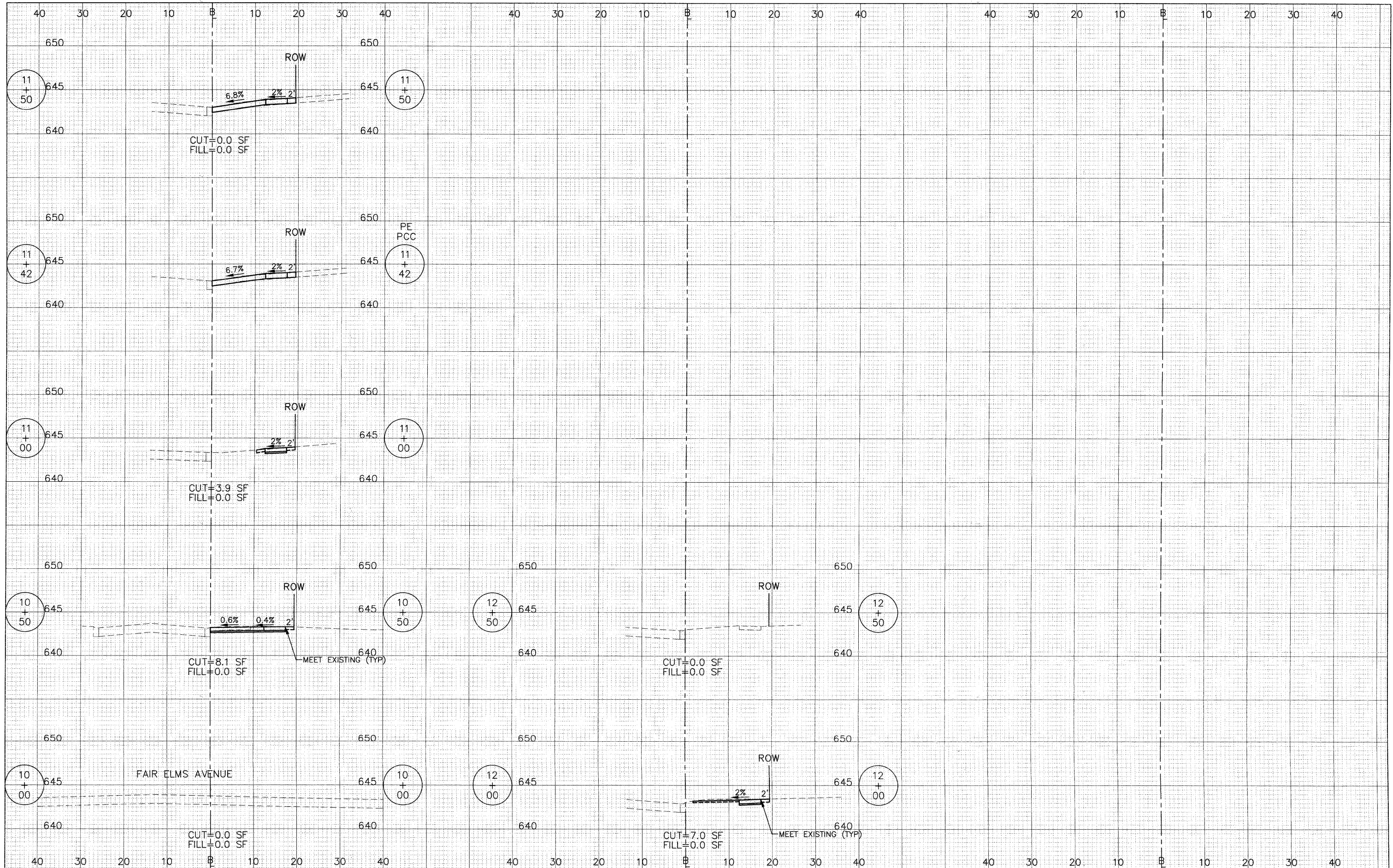


FILE NAME =	USER NAME =	DESIGNED - BDH	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS 51ST STREET</b>		F.A.U. RTE. 1504	SECTION 09-00090-00-SW	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 14	
		DRAWN - BCD	REVISED -		1"=10' HOR. SCALE: 1"=5' VERT.		SHEET NO. 14 OF 25 SHEETS		STA. 1+00 TO STA. 4+50		CONTRACT NO. 63596	
		CHECKED - BDH	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE - 02-09-11	REVISED -									



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DATE - 02-09-11	REVISOR -

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DATE - 02-09-11	REVISOR -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

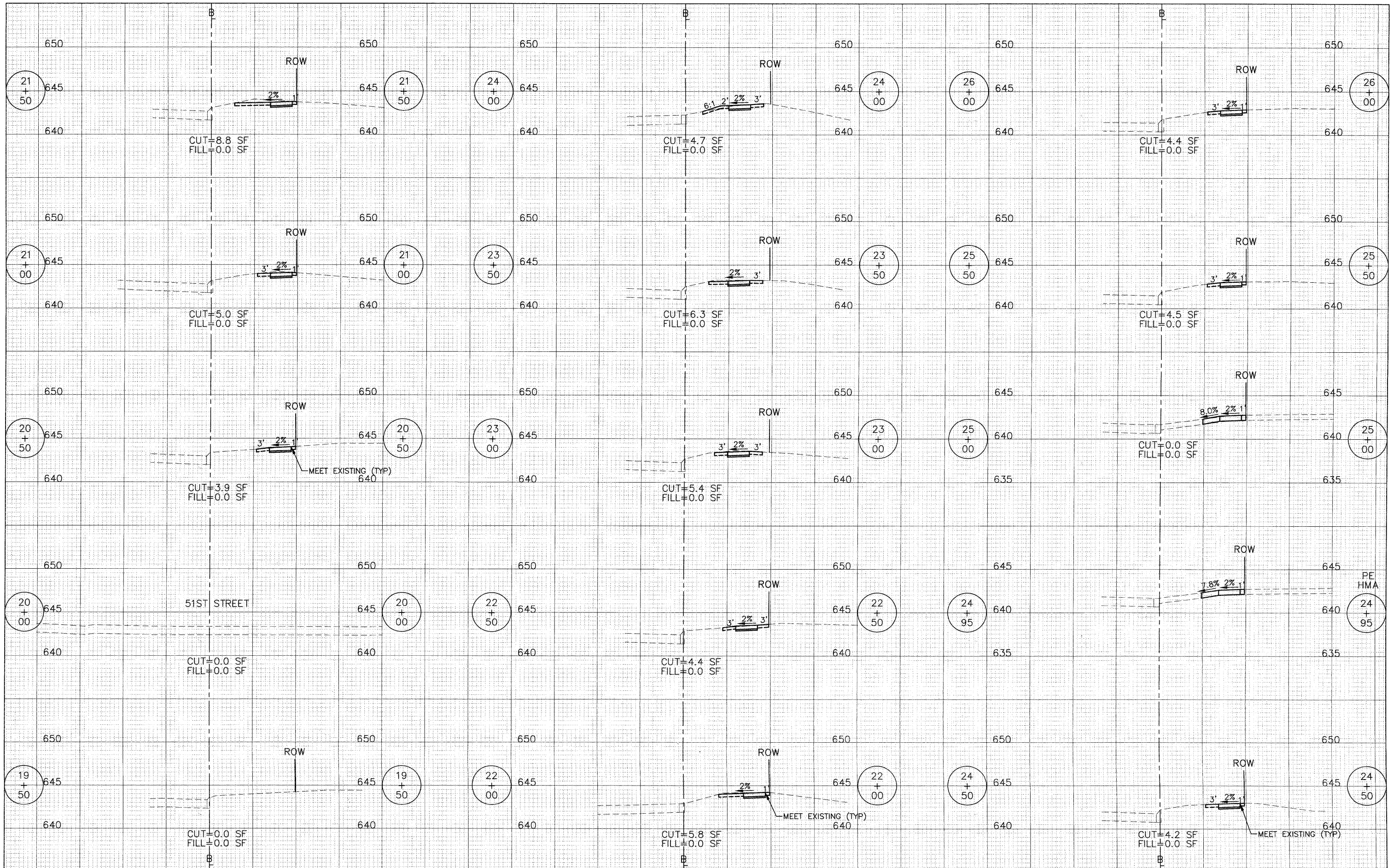
**CROSS SECTIONS  
49TH STREET**

1"=10' HOR.  
SCALE: 1"=5' VERT. SHEET NO. 15 OF 25 SHEETS STA. 10+00 TO STA. 12+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	09-00090-00-SW	COOK	25	15
				CONTRACT NO. 63596
ILLINOIS FED. AID PROJECT				

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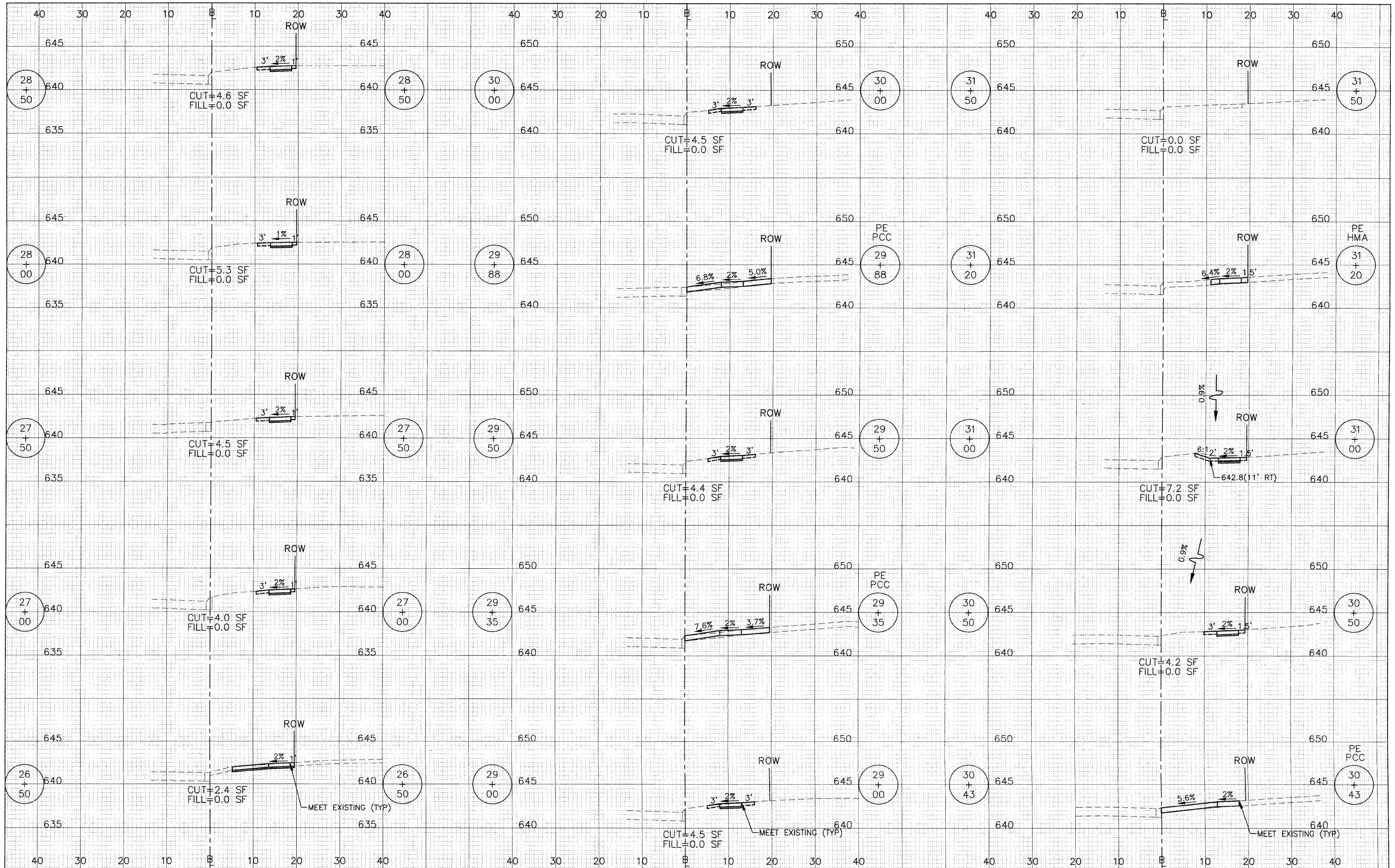


FILE NAME =	USER NAME =	DESIGNED -- BDH	REVISED --	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS FAIR ELMS AVENUE</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -- BCD	REVISED --			1504	09-00090-00-SW	COOK	25	16	
		CHECKED -- BDH	REVISED --			CONTRACT NO. 63596					
		DATE -- 02-09-11	REVISED --			ILLINOIS FED. AID PROJECT					
PLOT SCALE: 1"=10' HOR, 1"=5' VERT.				1"=10' HOR. SCALE: 1"=5' VERT.		SHEET NO. 16 OF 25 SHEETS		STA. 19+50 TO STA. 26+00			



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

**CROSS SECTIONS  
FAIR ELMS AVENUE**

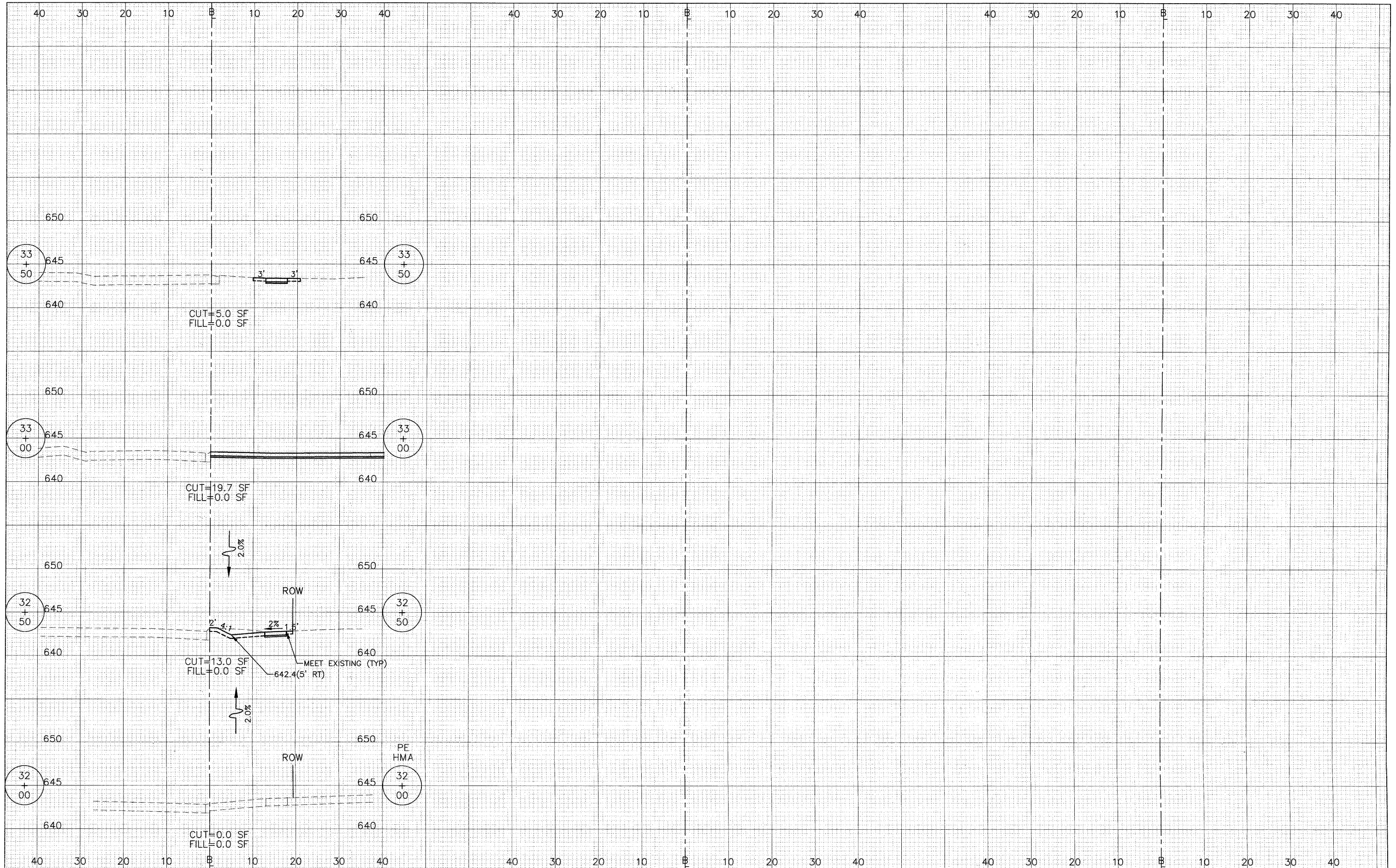
1"=10' HOR.  
SCALE: 1"=5' VERT.

SHEET NO. 17 OF 25 SHEETS      STA. 26+50 TO STA. 31+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	09-00090-00-SW	COOK	25	17
CONTRACT NO. 63596			ILLINOIS FED. AID PROJECT	

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		CHECKED - BDH	REVISED -
		DATE - 02-09-11	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
FAIR ELMS AVENUE**

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

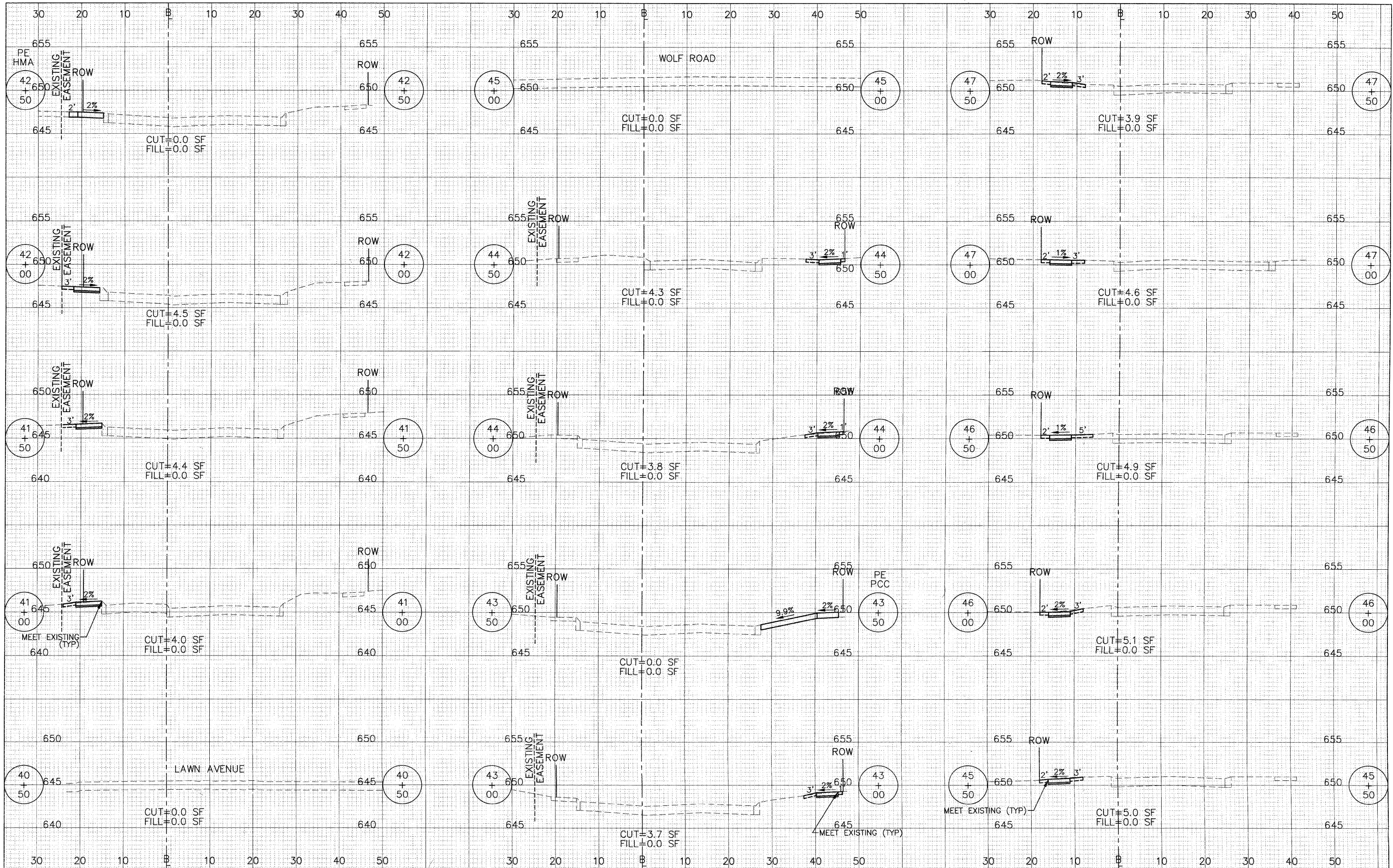
STATION 32+00 TO STA. 33+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	09-00090-00-SW	COOK	25	18
			CONTRACT NO. 63596	
ILLINOIS FED. AID PROJECT				



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FILE NAME =	USER NAME =	DESIGNED - BDH	REVISED -
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		CHECKED - BDH	REVISED -
		DATE - 02-09-11	REVISED -

PLAT SCALE: 1"=10' HOR, 1"=5' VERT.	CHECKED - BDH	REVISED -
PLAT DATE =	DATE - 02-09-11	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

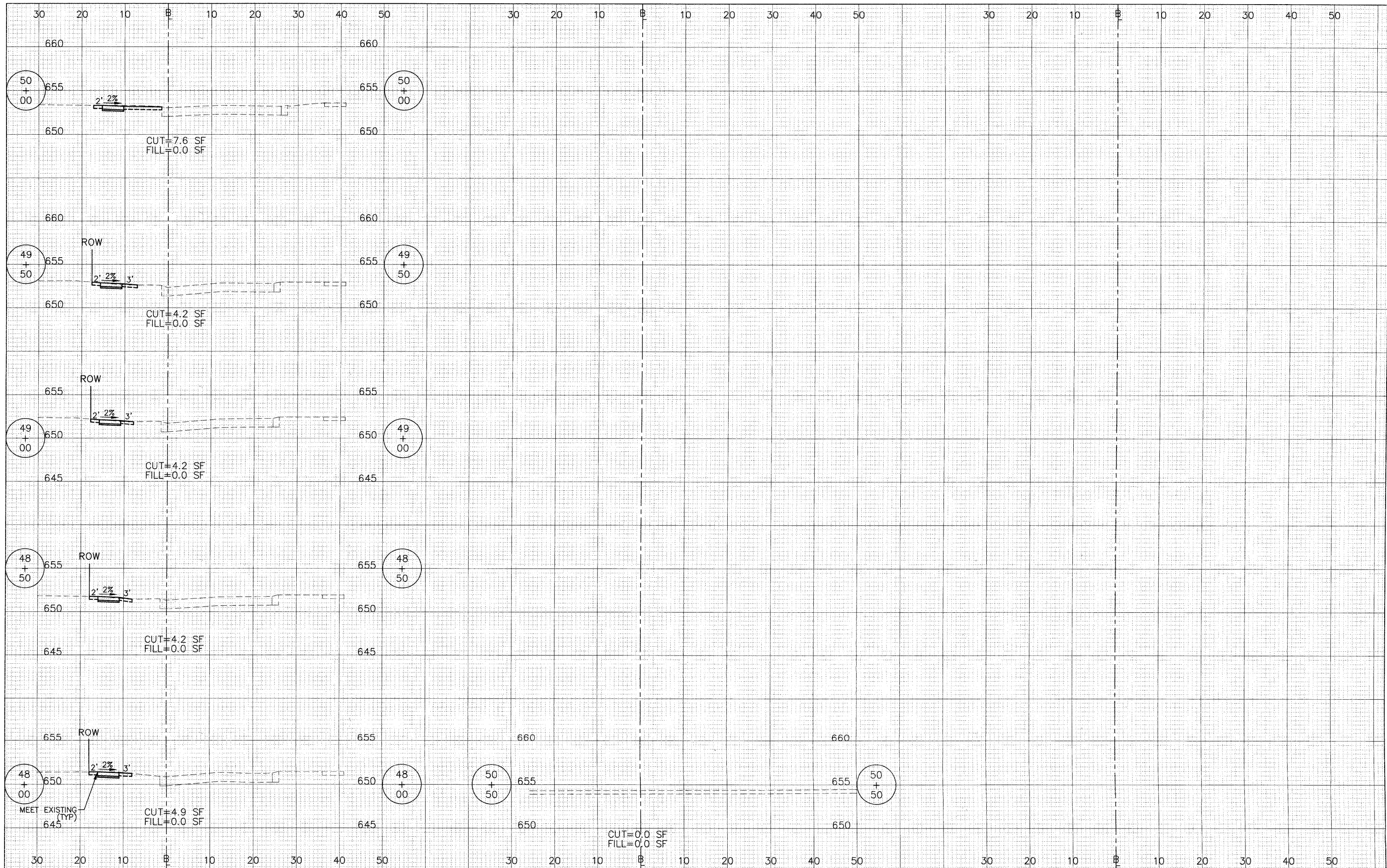
<b>CROSS SECTIONS 53RD STREET</b>	
1"=10' HOR.	SCALE: 1"=5' VERT.
SHEET NO. 19 OF 25 SHEETS	STA. 40+50 TO STA. 47+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	90-00090-00-SW	COOK	25	19
			CONTRACT NO. 63596	
ILLINOIS FED. AID PROJECT				



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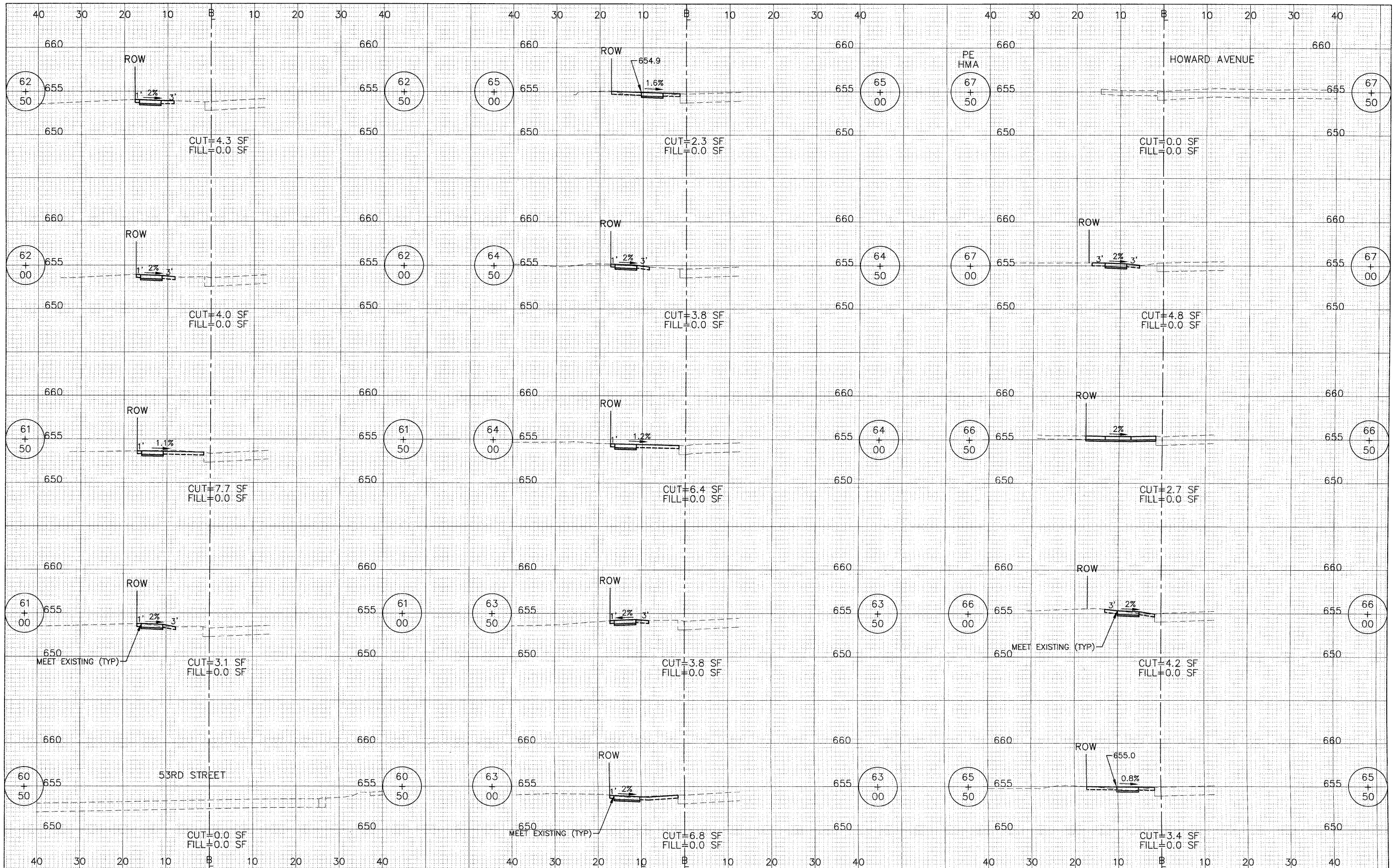
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FILE NAME =	USER NAME =	DESIGNED -- BDH	REVISED --	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b> <b>53RD STREET</b>	F.A.U. RTE. 1504	SECTION 09-00090-00-SW	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 20	
		DRAWN -- BCD	REVISED --			SCALE: 1"=10' HOR.	SHEET NO. 20 OF 25 SHEETS	STA. 48+00 TO STA. 50+50	CONTRACT NO. 63596		
		CHECKED -- BDH	REVISED --			SCALE: 1"=5' VERT.	ILLINOIS FED. AID PROJECT				
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		DATE -- 02-09-11	REVISED --								

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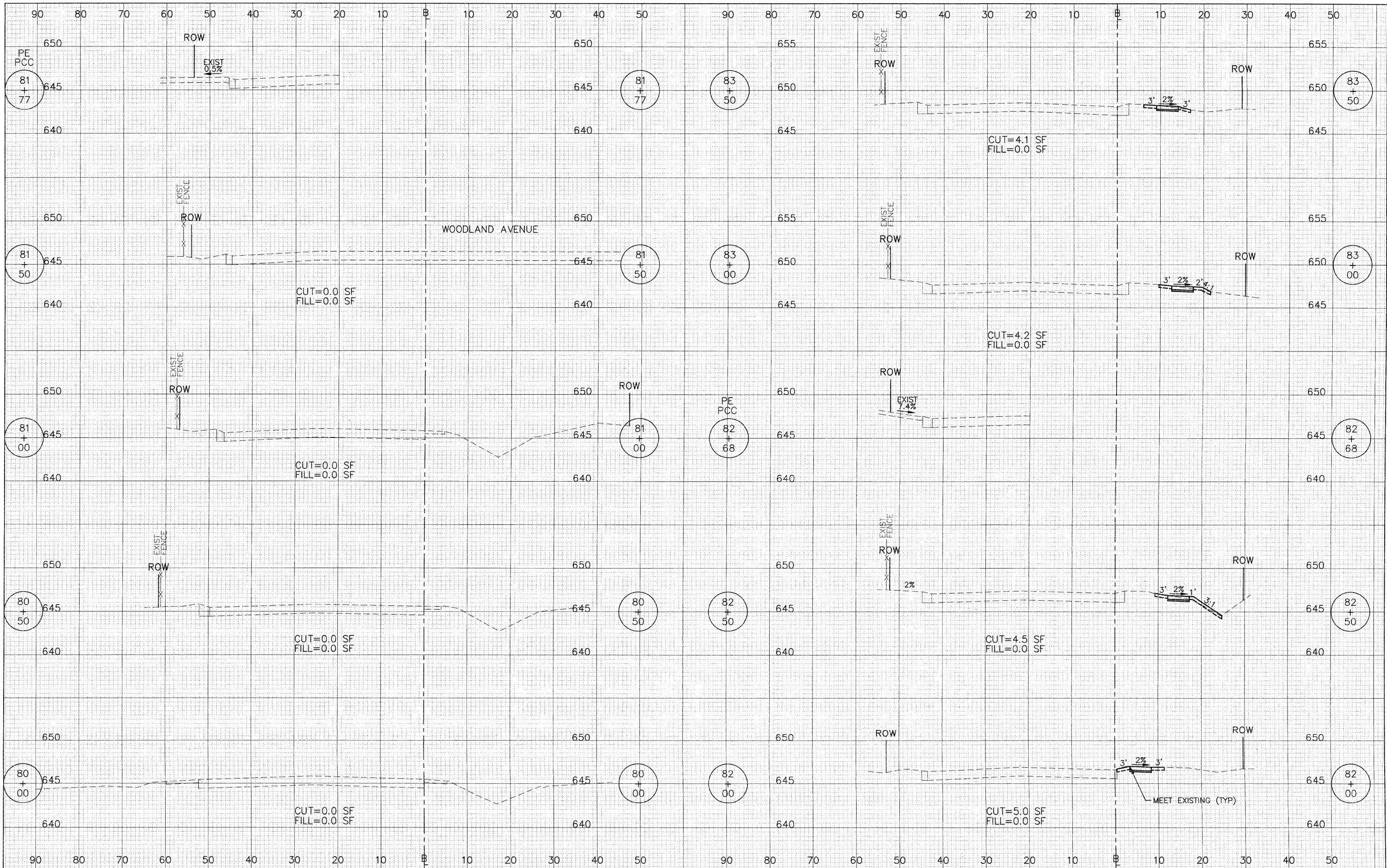


FILE NAME =	USER NAME =	DESIGNED - BDH	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS CAROLINE AVENUE</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - BCD	REVISED -			1504	09-00090-00-SW	COOK	25	21	
		CHECKED - BDH	REVISED -			CONTRACT NO. 63596					
		DATE - 02-09-11	REVISED -			ILLINOIS FED. AID PROJECT					
		PLOT SCALE: 1"=10' HOR, 1"=5' VERT.		1"=10' HOR. SCALE: 1"=5' VERT.		SHEET NO. 21 OF 25 SHEETS		STA. 60+50 TO STA. 67+50			



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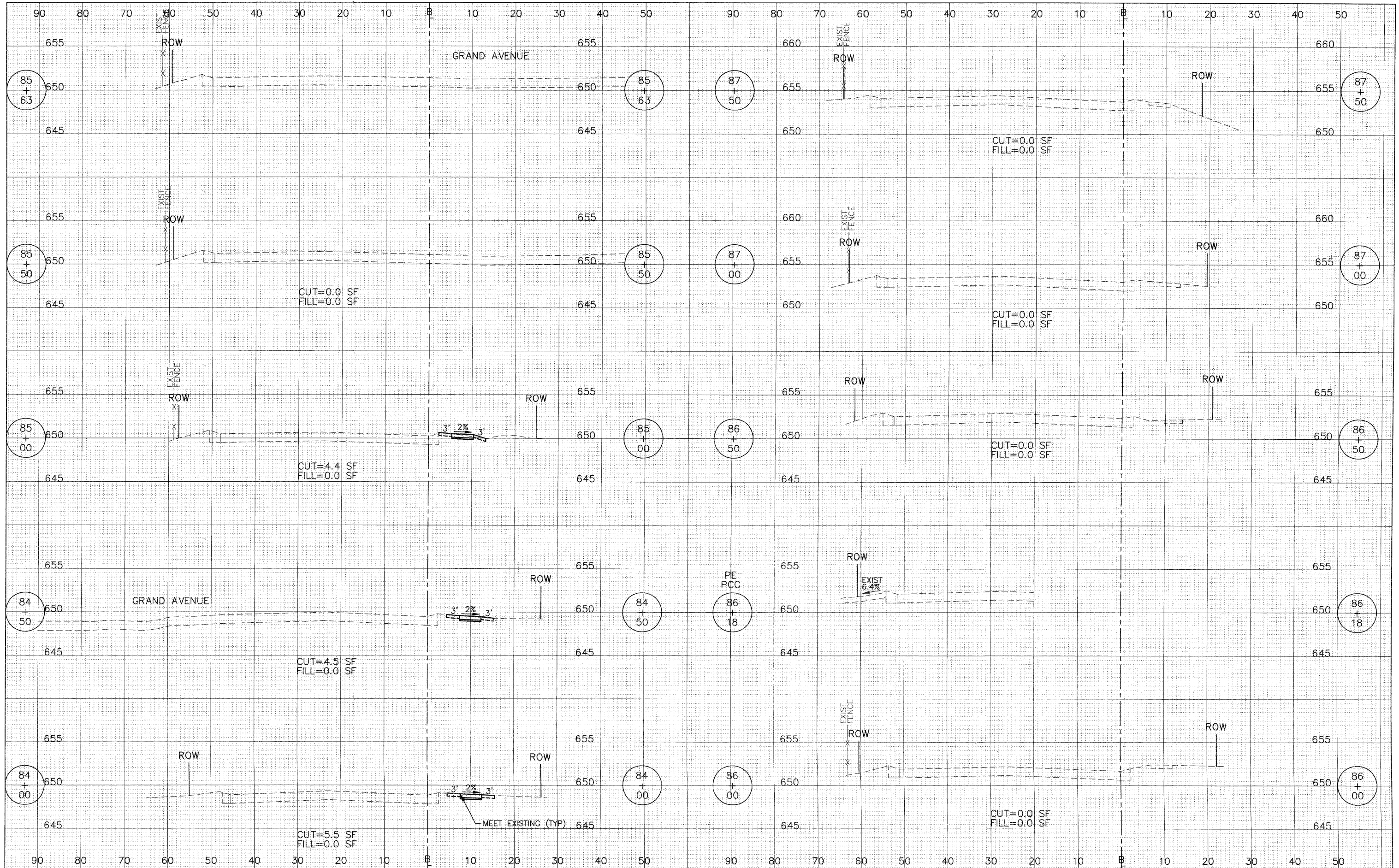
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FILE NAME =	USER NAME =	DESIGNED - BDH	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS 55TH STREET</b>		F.A.U. RTE. 1504	SECTION 90-00090-00-SW	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 22	
		DRAWN - BCD	REVISED -		1"=10' HOR. SCALE: 1"=5' VERT.		SHEET NO. 22 OF 25 SHEETS		STA. 80+00 TO STA. 83+50		CONTRACT NO. 63596	
		CHECKED - BDH	REVISED -		DATE - 02-09-11						ILLINOIS FED. AID PROJECT	
		REVISOR -	REVISED -									

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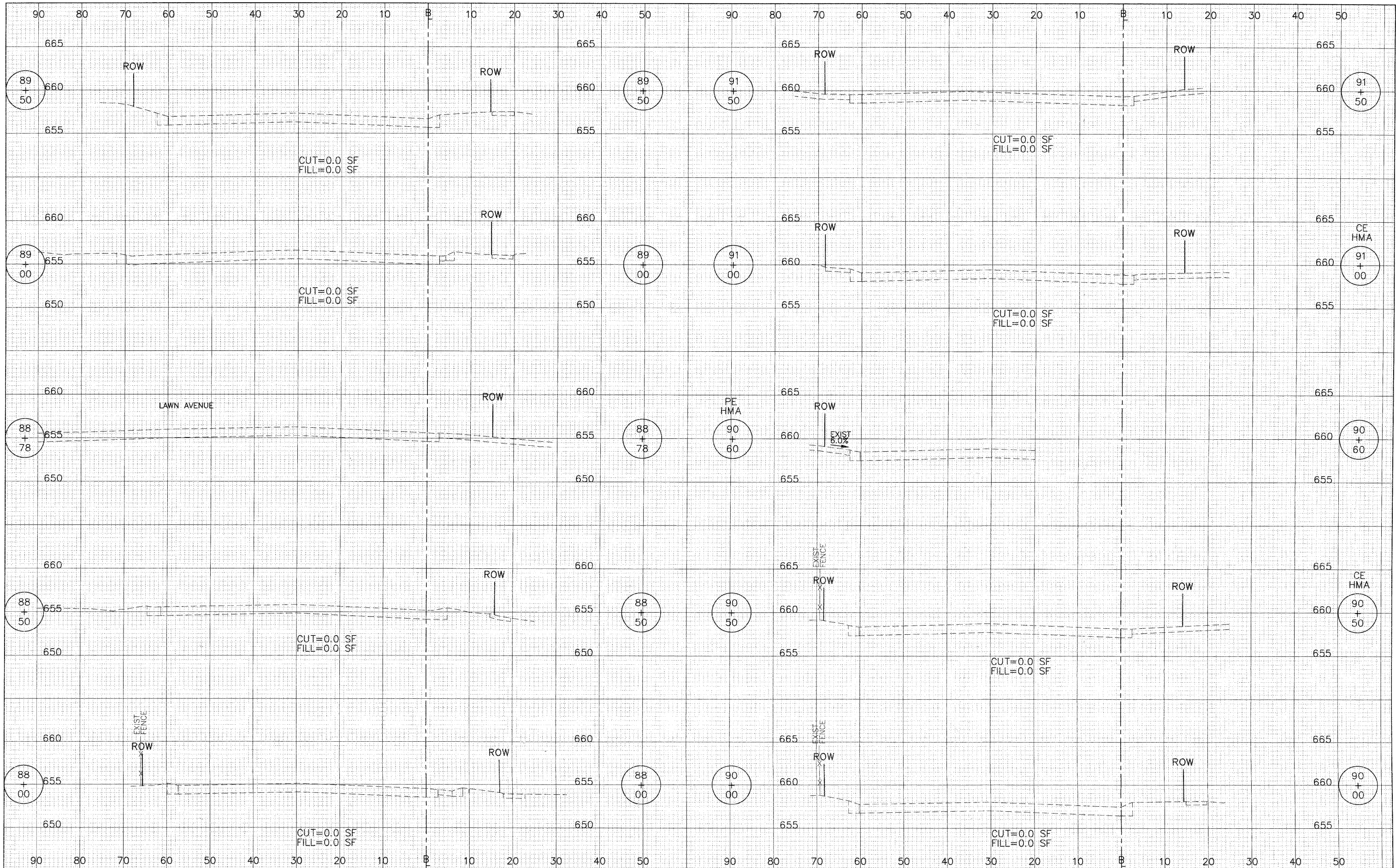


FILE NAME	USER NAME	DESIGNED - BDH	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS</b> <b>55TH STREET</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - BCD	REVISED -			1504	90-00090-00-SW	COOK	25	23	
		PLLOT SCALE: 1"=10' HOR, 1"=5' VERT.	REVISED -			1"=10' HOR.		CONTRACT NO. 63596			
		PLLOT DATE	REVISED -			SCALE: 1"=5' VERT.		SHEET NO. 23 OF 25 SHEETS		STA. 84+00 TO STA. 87+50	
		DATE - 02-09-11	REVISED -	ILLINOIS FED. AID PROJECT							



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

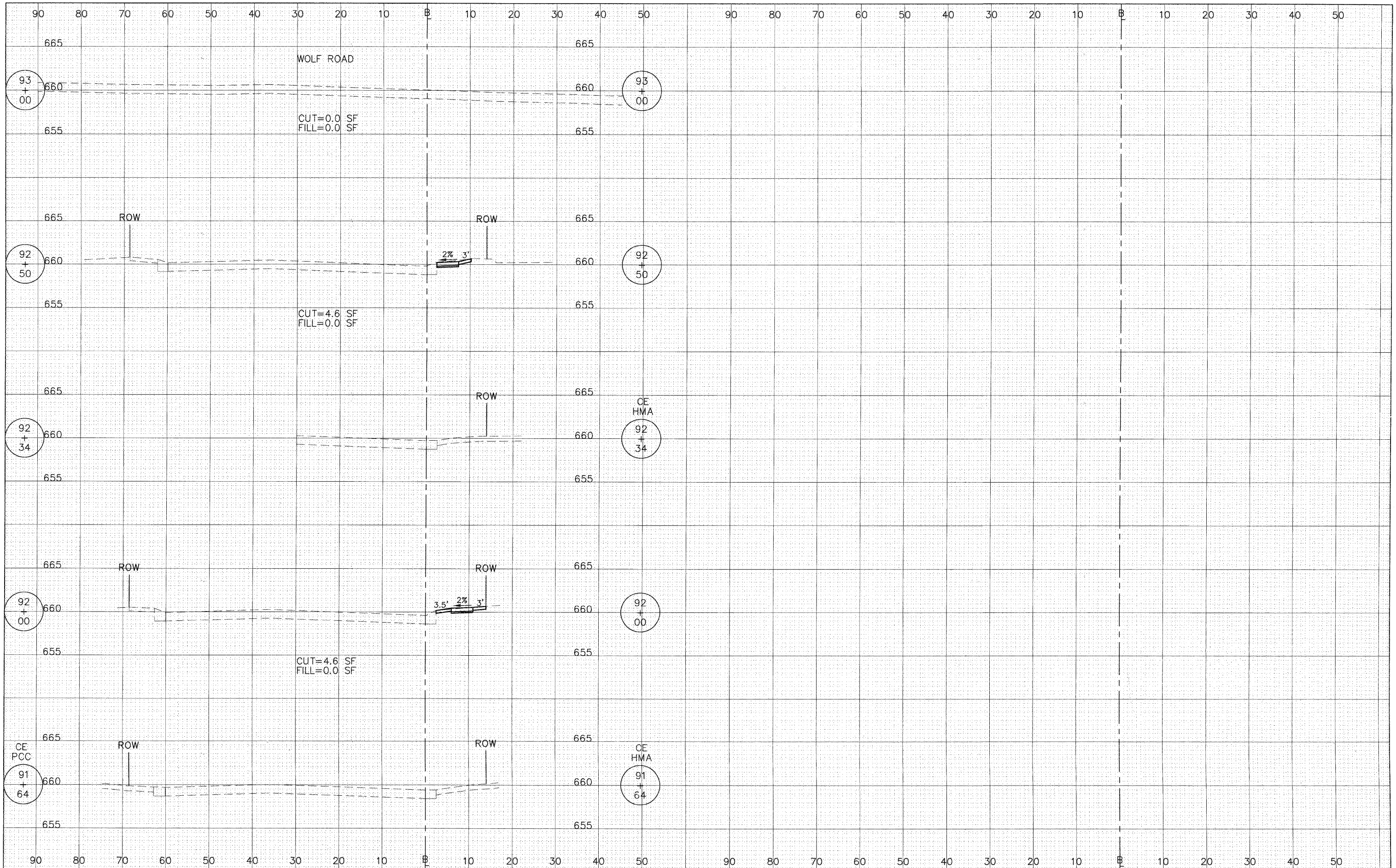
**CROSS SECTIONS  
55TH STREET**

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

SHEET NO. 24 OF 25 SHEETS      STA. 88+00 TO STA. 91+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	90-0090-00-SW	COOK	25	24
CONTRACT NO. 63596				
ILLINOIS FED. AID PROJECT				





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FILE NAME =	USER NAME =	DESIGNED -- BDH	REVISED --
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		DATE -- 02-09-11	REVISED --

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
55TH STREET**

1"=10' HOR.  
SCALE: 1"=5' VERT. SHEET NO. 25 OF 25 SHEETS STA. 91+64 TO STA. 93+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1504	90-00090-00-SW	COOK	25	25
ILLINOIS FED. AID PROJECT			CONTRACT NO. 63596	