

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	1

80

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

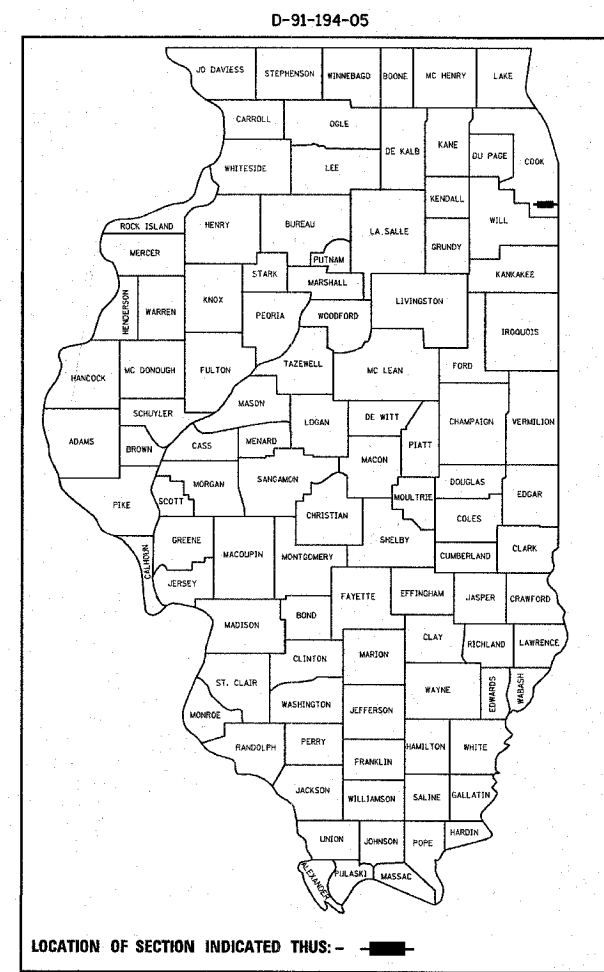
# PROPOSED HIGHWAY PLANS

FAP ROUTE 353: US 30  
AT COTTAGE GROVE AVE.  
SECTION: 11-5-N-1

INTERSECTION IMPROVEMENT, TRAFFIC SIGNAL MODERNIZATION  
PROJECT: ACHSIP-0353(012)  
COOK COUNTY  
C-91-194-05

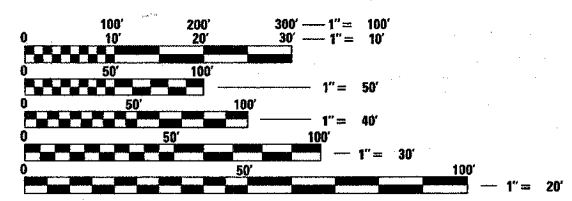
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN CITY OF CHICAGO  
HEIGHTS AND VILLAGE OF FORD HEIGHTS.



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

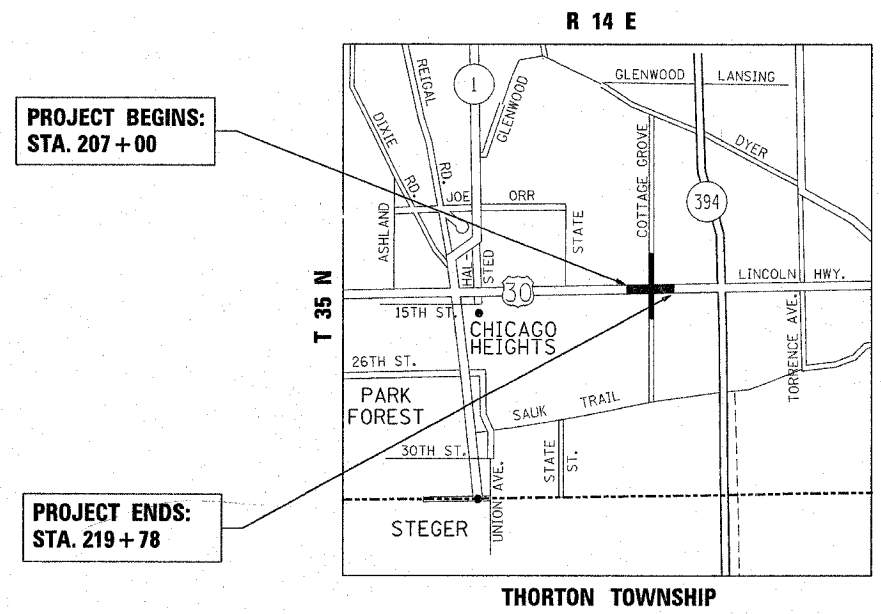
REGION ONE - PLAN PREPARATION ENGINEER - KEN ENG / J. CHANG (847) 705-4432



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

CONTRACT NO. 62949



PROJECT BEGINS:  
STA. 207 + 00

PROJECT ENDS:  
STA. 219 + 78

GROSS AND NET LENGTH OF PROJECT = 1278 FT. (0.24 MILE)



**TRAFFIC DATA**

US 30: 2005 ADT = 22,400  
COTTAGE GROVE AVE: 2002 ADT = 5,200  
  
POSTED SPEED LIMIT:  
COTTAGE GROVE AVE. = 45 MPH  
US 30 = 35 TO 40 MPH

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
SUBMITTED October 25 2007  
Diane O. Keefe  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER  
December 7, 2007  
Eric E. Harms  
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT  
December 7, 2007  
Christine M. Reed  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	2
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

INDEX OF SHEETS

STATE STANDARDS

GENERAL NOTES

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
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2	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES.
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12	SCHEDULE OF QUANTITIES (EARTHWORK) AND HMA MIXTURE CHART
13-15	EXISTING AND PROPOSED ROADWAY PLAN AND PROFILE
16	PROPOSED DRAINAGE TABLE
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27-28	EXISTING UTILITY PLAN
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37-52	TRAFFIC SIGNAL INSTALLATION PLANS
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54	OUTLET FOR CONCRETE CURB AND GUTTER
55	STORM SEWER CONNECTION TO EXISTING SEWER
56	MANHOLE WITH RESTRICTOR PLATE
57	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
58	BUTT JOINT AND HMA TAPER DETAIL
59	BENCHING DETAIL FOR EMBANKMENT WIDENING
60	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
61	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)
62	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
63	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
64	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
65	ARTERIAL ROAD INFORMATION SIGNING
65A	DRIVEWAY ENTRANCE SIGNING
66-69	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
70-79	CROSS SECTIONS

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
000001-05	TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C AND D PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
602001	CATCH BASIN, TYPE A
602306-01	INLET, TYPE B
602401-01	MANHOLE, TYPE A
604036-01	GRATE, TYPE 8
604091-01	FRAME AND GRATE, TYPE 24
606006-01	OUTLET FOR CONCRETE CURB AND GUTTER (B-6.24)
606301-03	PC CONCRETE ISLANDS AND MEDIANS
606306-02	CORRUGATED PC CONCRETE MEDIANS
630001-07	STEEL BEAM PLATE GUARDRAIL
631011-04	TRAFFIC BARRIER TERMINAL, TPYE 2
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
701101-01	OFF-ROAD OPERATIONS, MULTILANE MORE THAN 4.5 M (15') AWAY
701326-02	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING
701421-01	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY
701606-05	URBAN LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN
701701-05	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-03	LANE CLOSURE, MULTILANE, 1W OR 2 W CROSSWALK OR SIDEWALK CLOSURE
701901	TRAFFIC CONTROL DEVICES

COMMITMENT

THE RESIDENT ENGINEER SHALL CONTACT PACE PRIOR TO CONSTRUCTION TO COORDINATE THE REMOVAL AND RELOCATION OF THE EXISTING BUS SHELTER. IDOT WILL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF THE CONCRETE PAD AND SIDEWALK.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, CITY OF CHICAGO HEIGHTS AND VILLAGE OF FORD HEIGHTS

THE CONTRACTOR WILL NOT BE ABLE TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED.

THE RESIDENT ENGINEER SHALL CONTACT MS. PATRICE HARRIS, AREA TRAFFIC FIELD ENGINEER, AT (708) 597-9800 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).

UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.

PRIOR TO EMBANKMENT PLACEMENT, ALL VEGETATION, LOOSE MATERIAL, AND UNSTABLE MATERIAL SHOULD BE REMOVED TO DEPTH ENCOUNTERED AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL. ANY EMBANKMENT WIDENING ON EXISTING SLOPES SHOULD BE BENCHED IN ACCORDANCE WITH ARTICLE 205.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A FIELD LABORATORY FOR USE FOR ANY ON SITE TESTING BY THE ENVIRONMENTAL FIRM. NO TESTING OF ANY KIND, CONTAMINATED OR NON-CONTAMINATED FLUID OR SOLID SHALL BE PERMITTED IN THE ENGINEER'S FIELD OFFICE.

ALL PLANTS MATERIAL SHALL BE MARKED IN THE FIELD. CONTACT RICK WANNER OF THE ROADSIDE DEVELOPMENT UNIT AT (847) 705-4172 A MINIMUM OF 72 HOURS PRIOR TO LANDSCAPING WORK.

THE RESIDENT ENGINEER SHALL VERIFY LOCATIONS OF ALL EXISTING PAVEMENT MARKINGS PRIOR TO MILLING OR RESURFACING.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE INSTALLATION OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p><b>INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES</b></p> <p>SCALE: VERT.      DRAWN BY                      HORIZ.              CHECKED BY</p>

PLOT DATE = 10/31/2007  
 FILE NAME = c:\p\projects\1101082\design\ca.dgn  
 PLOT SCALE = 50:000 / IN.  
 USER NAME = wjgarcia

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 1000-2A	SIGNAL Y031-1F			
* X0325890	REOPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL I	EACH	1		1			
X0325797	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1			
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	25	25				
20100410	TREE REMOVAL, SPECIAL (OVER 15 UNITS DIAMETER)	UNIT	44	44				
20101100	TREE TRUNK PROTECTION	EACH	7	7				
20200100	EARTH EXCAVATION	CU YD	3718	3718				
* 20200200	ROCK EXCAVATION	CU YD	450	450				
20201006	GRADING AND SHAPING SHOULDERS	UNIT	24	24				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	3016	3016				
20700420	POROUS GRANULAR EMBANKMENT, SUBGRADE	CU YD	120	120				
20800150	TRENCH BACKFILL	CU YD	1450	1450				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	8396	8396				
25000210	SEEDING, CLASS 2A	ACRE	2	2				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	180	180				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	180	180				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	180	180				
25100630	EROSION CONTROL BLANKET	SQ YD	8396	8396				
25200200	SUPPLEMENTAL WATERING	UNIT	84	84				
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	180	180				
28000300	TEMPORARY DITCH CHECKS	EACH	20	20				
28000400	PERIMETER EROSION BARRIER	FOOT	4500	4500				
28000510	INLET FILTERS	EACH	23	23				
28100105	STONE RIPRAP, CLASS A3	SQ YD	712	712				
28200200	FILTER FABRIC	SQ YD	712	712				
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	2200	2200				
31102100	SUB-BASE GRANULAR MATERIAL, TYPE C 4"	SQ YD	715	715				
35300500	PORTLAND CEMENT CONCRETE BASE COURSE 10"	SQ YD	3600	3600				
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	270	270				
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	285	285				

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 1000-2A	SIGNAL Y031-1F			
40300200	BITUMINOUS MATERIALS (PRIME COAT)	TON	7	7				
40600300	AGGREGATE (PRIME COAT)	TON	33	33				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	5	5				
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	1005	1005				
40600895	CONSTRUCTING TEST STRIP	EACH	1	1				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	84	84				
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	180	180				
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	63	63				
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	1848	1848				
42001300	PROTECTIVE COAT	SQ YD	4406	4406				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	4345	4345				
42400800	DETECTABLE WARNINGS	SQ FT	54	54				
44000153	HOT-MIX ASPHALT SURFACE REMOVAL, 1"	SQ YD	10700	10700				
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	530	530				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	3005	3005				
44000600	SIDEWALK REMOVAL	SQ FT	5275	5275				
44002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3"	SQ YD	400	400				
44003100	MEDIAN REMOVAL	SQ FT	7770	7770				
44004250	PAVED SHOULDER REMOVAL	SQ YD	1305	1305				
44201353	CLASS C PATCHES, TYPE II, 10 INCH	SQ YD	200	200				
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	200	200				
44201357	CLASS C PATCHES, TYPE III, 10 INCH	SQ YD	70	70				
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	70	70				
44201359	CLASS C PATCHES, TYPE IV, 10 INCH	SQ YD	70	70				
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	70	70				
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	10700	10700				
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	714	714				
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	1098	1098				
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2	2				
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	2	2				

\* SPECIALTY ITEMS

10/31/2007 10:31:20 AM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SUMMARY OF QUANTITIES

PLOT DATE: 10/31/2007

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY I000-2A	SIGNAL Y031-1F		
			<i>90% FED / 10% STATE</i>				
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	50	50			
NP 55039700	STORM SEWERS TO BE CLEANED	FOOT	750	750			
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	274	274			
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	490	490			
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	1530	1530			
60107600	PIPE UNDERDRAINS 4"	FOOT	500	500			
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	3	3			
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	2	2			
60219540	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	7	7			
60240301	INLETS, TYPE B, TYPE 8 GRATE	EACH	3	3			
60240328	INLETS, TYPE B, TYPE 24 FRAME AND GRATE	EACH	7	7			
60250200	CATCH BASINS TO BE ADJUSTED	EACH	6	6			
60255500	MANHOLES TO BE ADJUSTED	EACH	3	3			
60500050	REMOVING CATCH BASINS	EACH	4	4			
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	5	5			
60600105	CONCRETE CURB	FOOT	83	83			
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	3548	3548			
60623711	CONCRETE MEDIAN	SQ FT	380	380			
60624600	CORRUGATED MEDIAN	SQ FT	110	110			
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	75	75			
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2			
63200310	GUARDRAIL REMOVAL	FOOT	75	75			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8			
67100100	MOBILIZATION	L SUM	1	1			
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1			
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	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			

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY I000-2A	SIGNAL Y031-1F		
			<i>90% FED / 10% STATE</i>				
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1			
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	5370	5370			
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	150	150			
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	11200	11200			
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1020	1020			
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	550	550			
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	150	150			
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	7040	7040			
* 72000200	SIGN PANEL - TYPE 2	SQ FT	52		52		
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	150	150			
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	11200	11200			
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1020	1020			
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	550	550			
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	150	150			
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	190	190			
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2			
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	150	150			
81000300	CONDUIT IN TRENCH, 1" DIA., GALVANIZED STEEL	FOOT	105		105		
81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	765		765		
81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	130		130		
81001000	CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10		10		
81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	316		316		
81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	385		385		

\* SPECIALTY ITEMS  
NP = NON-PARTICIPATING

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SUMMARY OF QUANTITIES

Rev.

PLOT DATE: 10/31/2007

10/31/2007

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 1000-2A	SIGNAL Y031-1F			
			90% FED. / 10% STATE					
81030100	CONDUIT SPLICE	EACH	1		1			
81400100	HANDHOLE	EACH	5		5			
81400200	HEAVY-DUTY HANDHOLE	EACH	6		6			
81400300	DOUBLE HANDHOLE	EACH	1		1			
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	900		900			
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2		2			
85700305	FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1		1			
86000105	MASTER CONTROLLER (SPECIAL)	EACH	1		1			
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1308		1308			
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1380		1380			
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1088		1088			
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1542		1542			
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2141		2141			
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	119		119			
87502480	TRAFFIC SIGNAL POST, GALVANIZED STEEL 14 FT.	EACH	2		2			
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2		2			
87700160	STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	2		2			
87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1		1			
87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1		1			
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20		20			
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	4		4			
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	60		60			
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4		4			

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 1000-2A	SIGNAL Y031-1F			
			90% FED. / 10% STATE					
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4		4			
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4		4			
88102710	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	8		8			
88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8		8			
88500100	INDUCTIVE LOOP DETECTOR	EACH	9		9			
88600100	DETECTOR LOOP, TYPE I	FOOT	780		780			
88800100	PEDESTRIAN PUSH-BUTTON	EACH	8		8			
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1			
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	369		369			
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1			
89502380	REMOVE EXISTING HANDHOLE	EACH	9		9			
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	8		8			
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	153	153				
X0322925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1557		1557			
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	4	4				
X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	5	5				
X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD)	TON	305	305				
X5013800	PIPE CULVERT REMOVAL - 1L-4.75, N50	EACH	3	3				
X6020095	MANHOLES, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	EACH	1	1				
X8050015	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1			
X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	1		1			
X8710020	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	1650		1650			
X8730027	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	599		599			
XX005656	INLET FILTER CLEANING	EACH	23	23				
* XX006128	TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL)	EACH	2	2				
Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	2370	2370				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1				
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	14	14				

\* SPECIALTY ITEMS  
NP = NON-PARTICIPATING

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SUMMARY OF QUANTITIES

Rev.

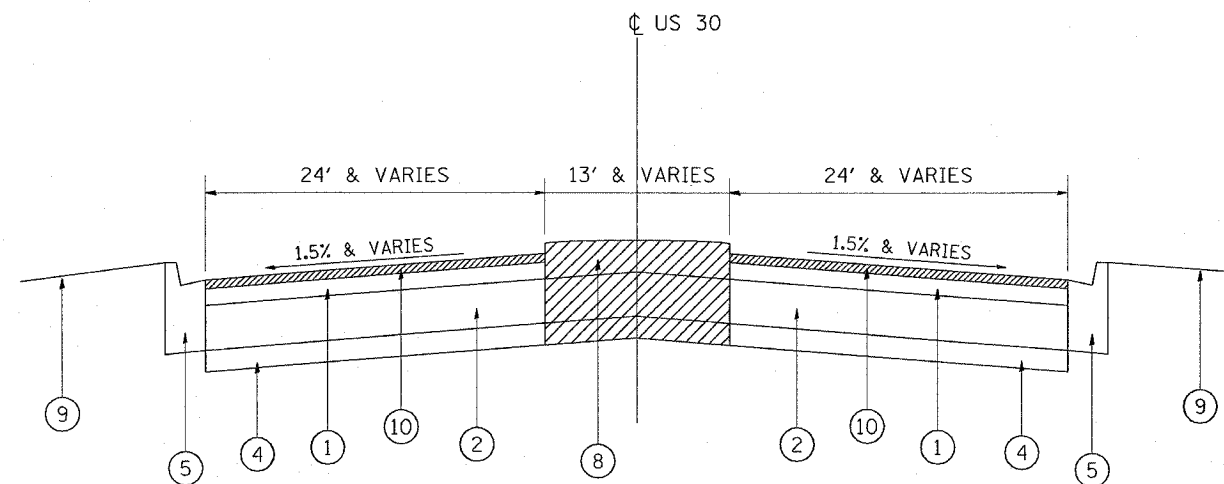
10/31/2007 10:00:00 AM

CONTRACT NO. 62949				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	6
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

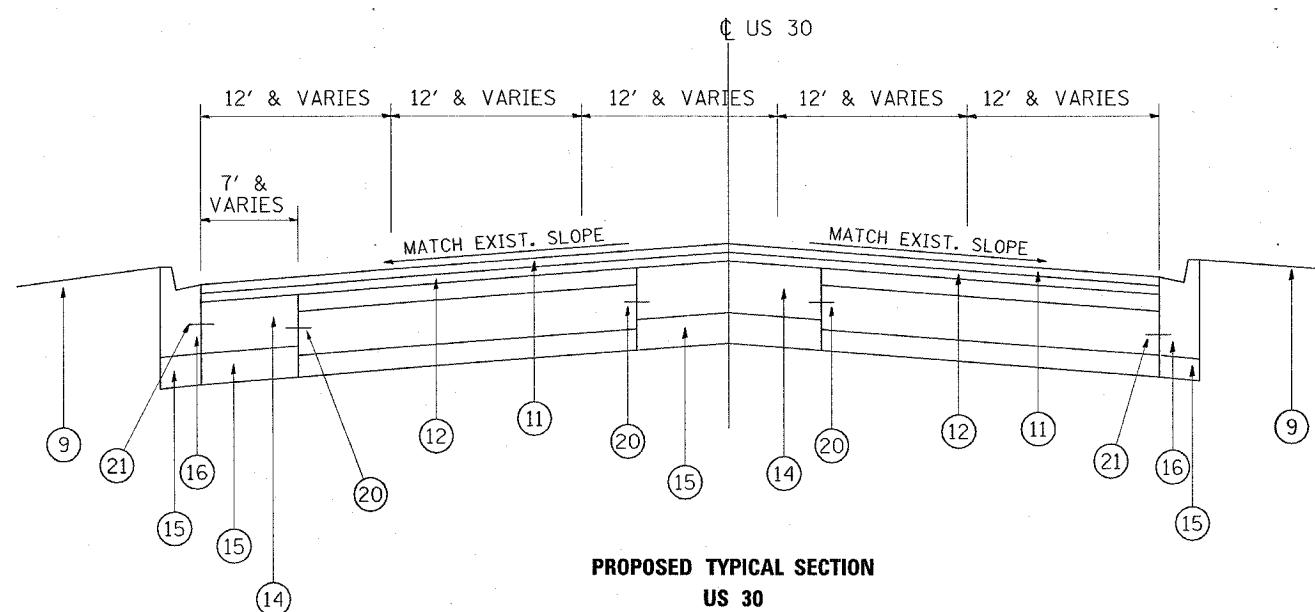
### LEGEND

- ① EXIST. HMA PAVEMENT, 3''(±)
- ①A EXIST. HMA PAVEMENT, 1''(±)
- ② EXIST. P.C.C. BASE COURSE, 10''(±)
- ②A EXIST. HMA BASE COURSE, 10''(±)
- ③ EXIST. P.C.C. SURFACE
- ④ EXIST. SUBBASE GRANULAR MATERIAL, 4''(±)
- ⑤ EXIST. B-6.24 CURB & GUTTER (TO BE REMOVED)
- ⑤A EXIST. SIDEWALK
- ⑥ EXIST. HMA SHOULDER
- ⑦ EXIST. AGGREGATE SHOULDER
- ⑧ EXIST. RAISED/CORRUGATED P.C.C. MEDIAN
- ⑨ EXIST. / PROP. GROUND (SEE CROSS SECTIONS)
- ⑩ PROP. HMA SURFACE REMOVAL, 1''
- ⑪ PROP. POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4''
- ⑫ PROP. LEVELING BINDER (MM), N70, 1 3/4''
- ⑬ PROP. POLYMERIZED LEVELING BINDER (MM), N50, IL-4.75, 3/4''
- ⑭ PROP. WIDENING: P.C.C. BASE COURSE, 10''
- ⑭A PROP. AGGREGATE SUBGRADE, 12''
- ⑮ PROP. SUBBASE GRAN. MATERIAL, TYPE B, 4''
- ⑮A PROP. SUBBASE GRAN. MATERIAL, TYPE C, 4''
- ⑯ PROP. B-6.24 CURB & GUTTER
- ⑰ PROP. HMA SHOULDER, 8''
- ⑱ PROP. AGGREGATE SHOULDER, TYPE B, 6''
- ⑲ PROP. SIDEWALK, 5''
- ⑳ PROP. DRILL AND GROUT #8 TIE BAR, 24'' LONG. (24'' C-C). COST INCLUDED IN PCC BASE COURSE
- ㉑ PROP. DRILL AND GROUT #6 TIE BAR, 24'' LONG. (24'' C-C). COST INCLUDED IN PROP. CURB & GUTTER

 PAVEMENT/MEDIAN REMOVAL



**EXISTING TYPICAL SECTION  
US 30  
STA. 207+00 TO 211+41**



**PROPOSED TYPICAL SECTION  
US 30  
STA. 207+00 TO 211+41**

### NOTE:

PROP. MEDIAN TO BE PLACED FROM STA. 207+00 TO 207+30.  
TAPER CORRUGATED NOSE DOWN TO MATCH PROP. PAVEMENT.  
(SEE HIGHWAY STDS. 606301 AND 606306)

CLASS D PATCHES TO BE PLACED ON US 30

APPLY STRIP REFLECTIVE CRACK CONTROL TREATMENT TO US 30

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p align="center"><b>EXISTING AND PROPOSED TYPICAL SECTIONS US 30 AT COTTAGE GROVE AVE.</b></p> <p>SCALE: VERT. _____ HORIZ. _____</p> <p>DATE _____ DRAWN BY _____ CHECKED BY _____</p>

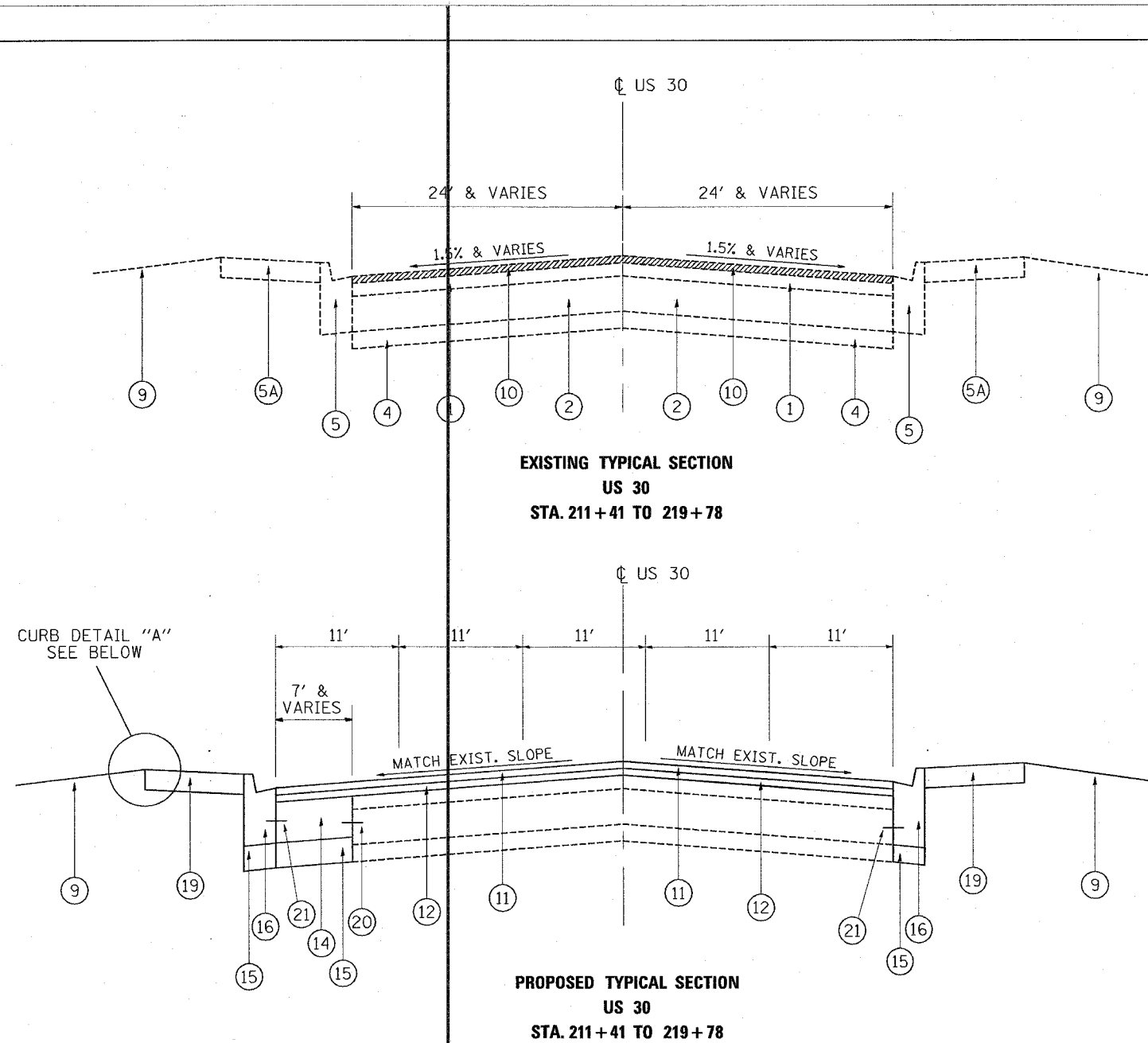
REV. 1

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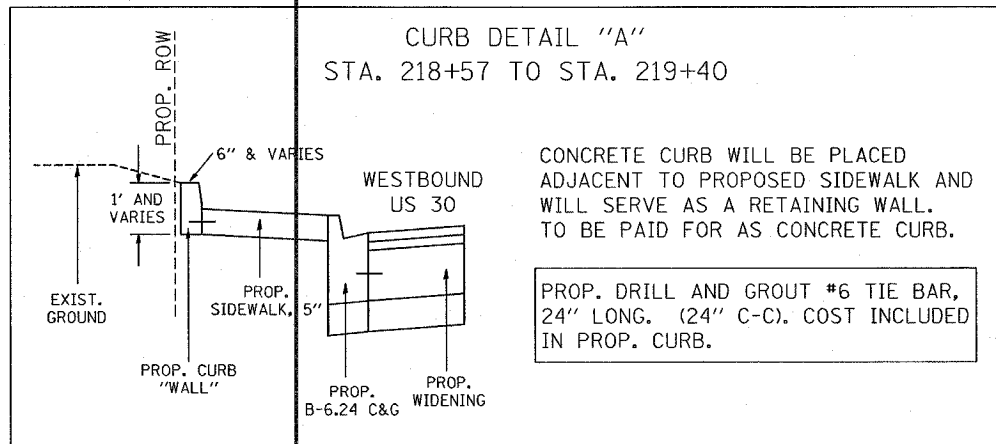
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	7
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

LEGEND

- ① EXIST. HMA PAVEMENT, 3''(±)
- ①A EXIST. HMA PAVEMENT, 1''(±)
- ② EXIST. P.C.C. BASE COURSE, 10''(±)
- ②A EXIST. HMA BASE COURSE, 10''(±)
- ③ EXIST. P.C.C. SURFACE
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- ⑦ EXIST. AGGREGATE SHOULDER
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- ㉑ PROP. DRILL AND GROUT #6 TIE BAR, 24'' LONG. (24'' C-C). COST INCLUDED IN PROP. CURB & GUTTER



CURB DETAIL "A" SEE BELOW



NOTES:

EXISTING AND PROPOSED SIDEWALK IS FROM STA. 115+50 TO 119+78 RT. AND LT.

CLASS D PATCHES TO BE PLACED ON US 30

APPLY STRIP REFLECTIVE CRACK CONTROL TREATMENT TO US 30

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p><b>EXISTING AND PROPOSED TYPICAL SECTIONS US 30 AT COTTAGE GROVE AVE.</b></p> <p>SCALE: VERT. HORIZ. DATE</p> <p>DRAWN BY CHECKED BY</p>

REV. 1

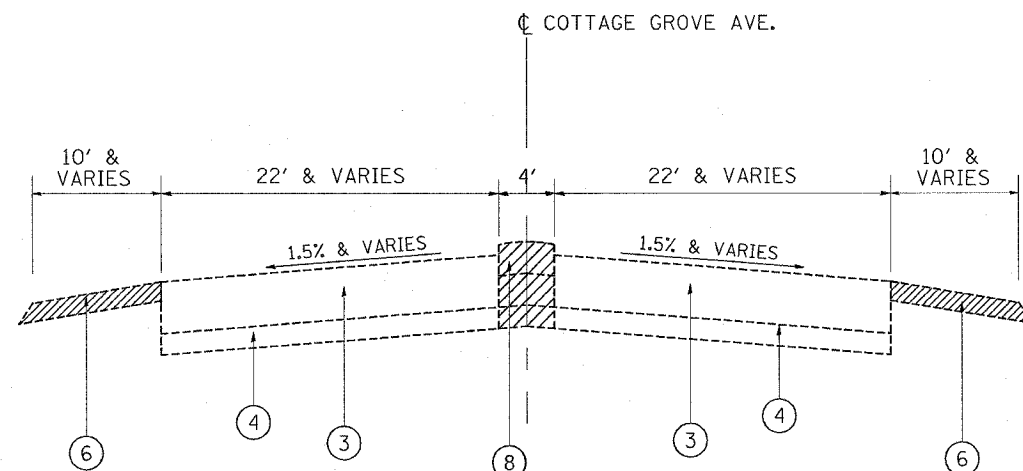
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	8
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

### LEGEND

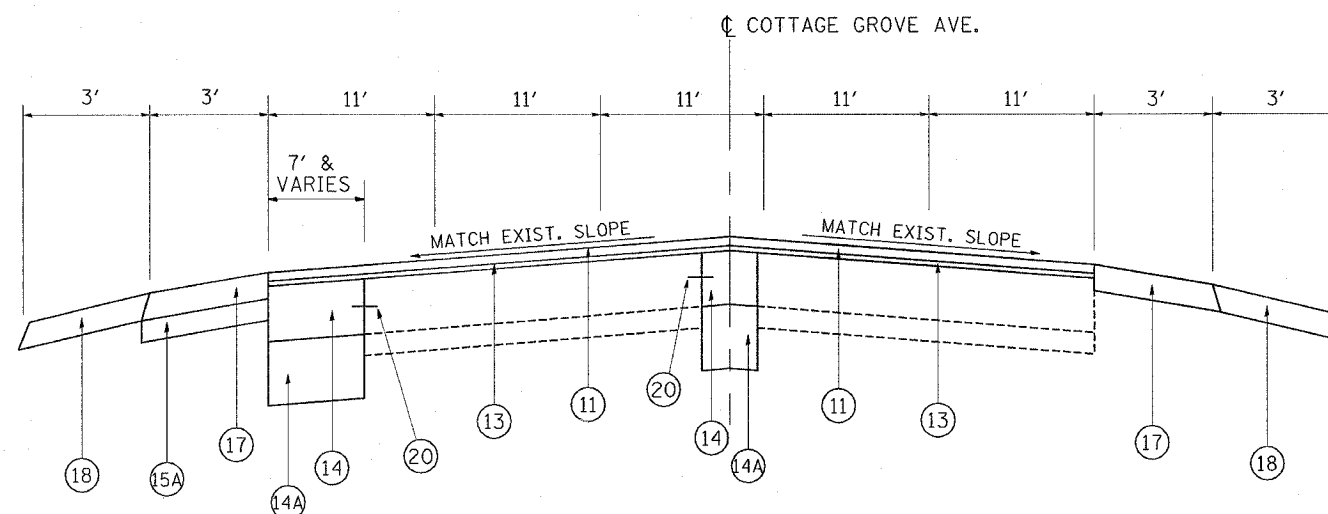
- ① EXIST. HMA PAVEMENT, 3''(±)
- ①A EXIST. HMA PAVEMENT, 1''(±)
- ② EXIST. P.C.C. BASE COURSE, 10''(±)
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- ③ EXIST. P.C.C. SURFACE
- ④ EXIST. SUBBASE GRANULAR MATERIAL, 4''(±)
- ⑤ EXIST. B-6.24 CURB & GUTTER (TO BE REMOVED)
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- ⑥ EXIST. HMA SHOULDER
- ⑦ EXIST. AGGREGATE SHOULDER
- ⑧ EXIST. RAISED/CORRUGATED P.C.C. MEDIAN
- ⑨ EXIST. / PROP. GROUND (SEE CROSS SECTIONS)
- ⑩ PROP. HMA SURFACE REMOVAL, 1''
- ⑪ PROP. POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1¾"
- ⑫ PROP. LEVELING BINDER (MM), N70, 1¾"
- ⑬ PROP. POLYMERIZED LEVELING BINDER (MM), N50, IL-4.75, ¾"
- ⑭ PROP. WIDENING: P.C.C. BASE COURSE, 10''
- ⑭A PROP. AGGREGATE SUBGRADE, 12''
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- ⑯ PROP. B-6.24 CURB & GUTTER
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PAVEMENT/MEDIAN REMOVAL



**EXISTING TYPICAL SECTION  
COTTAGE GROVE AVE.  
STA. 107+00 TO 113+80**



**PROPOSED TYPICAL SECTION  
COTTAGE GROVE AVE.  
STA. 107+00 TO 113+80**

### NOTES:

EXIST. CURB & GUTTER - 113+30 TO 113+80 LT. AND RT.  
PROP. B-6.24 CURB & GUTTER 112+97 TO 113+80 LT.  
AND 112+53 TO 113+80 RT.

SUBBASE GRAN. MATERIAL, TYPE C TO BE PLACED UNDER PROP.  
HMA SHOULDERS ADJACENT TO ROADWAY WIDENING.

PROP. CORRUGATED MEDIAN TO BE PLACED FROM  
STA. 107+00 TO 107+27. (SEE HIGHWAY STD. 606306)

CLASS C PATCHES TO BE PLACED ON COTTAGE GROVE AVE.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<b>EXISTING AND PROPOSED TYPICAL SECTIONS COTTAGE GROVE AVE. AT US 30</b>
SCALE:	VERT. HORIZ.	DRAWN BY
DATE		CHECKED BY

REV. 1

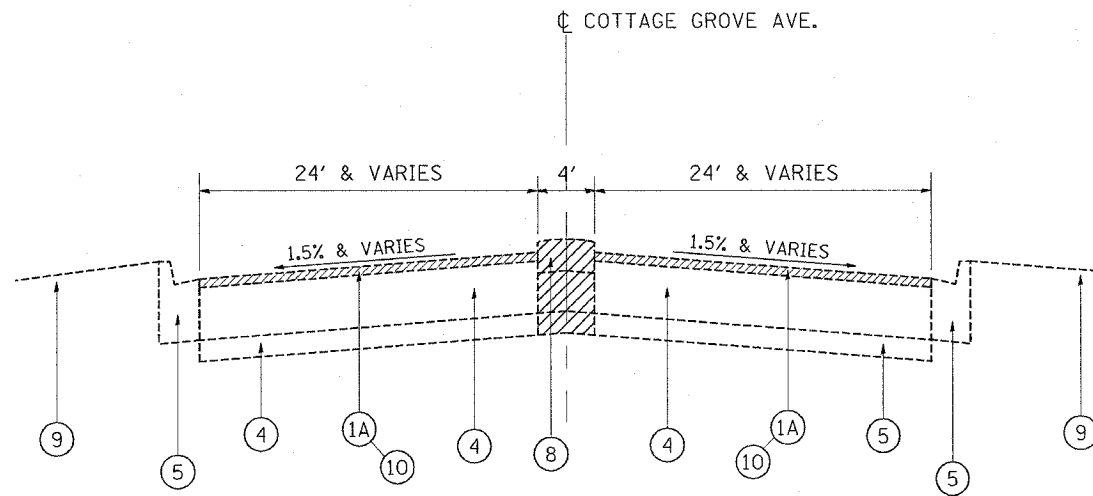


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	9
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

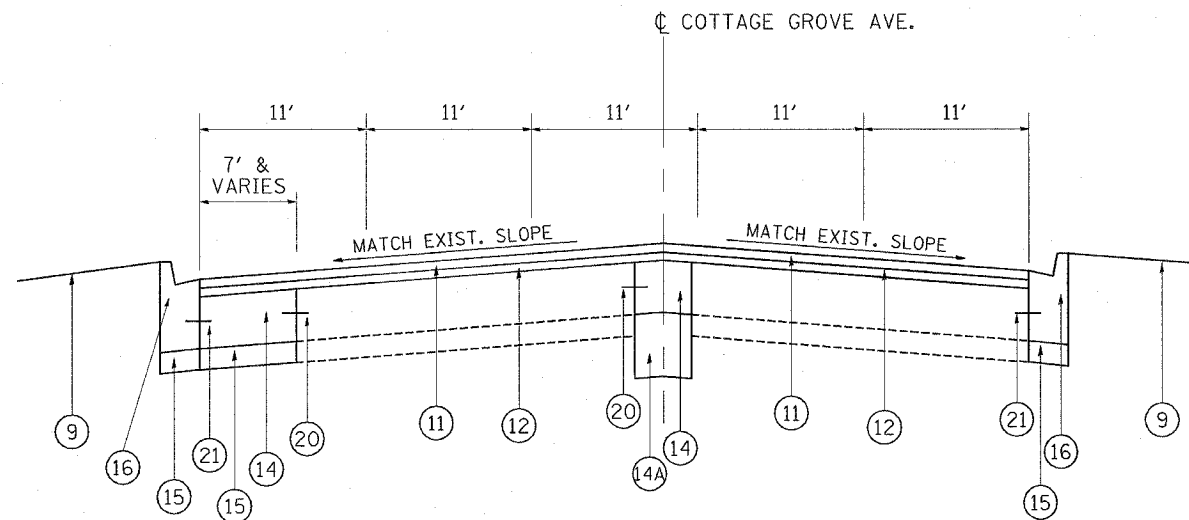
LEGEND

- ① EXIST. HMA PAVEMENT, 3''(±)
- ①A EXIST. HMA PAVEMENT, 1''(±)
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 PAVEMENT/MEDIAN REMOVAL



**EXISTING TYPICAL SECTION  
COTTAGE GROVE AVE.  
STA. 113+80 TO 116+20**



**PROPOSED TYPICAL SECTION  
COTTAGE GROVE AVE.  
STA. 113+80 TO 116+20**

NOTES:

CLASS C PATCHES TO BE PLACED ON COTTAGE GROVE AVE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**EXISTING AND PROPOSED  
TYPICAL SECTIONS  
COTTAGE GROVE AVE. AT US 30**

SCALE: VERT.  
HORIZ.  
DATE

DRAWN BY  
CHECKED BY

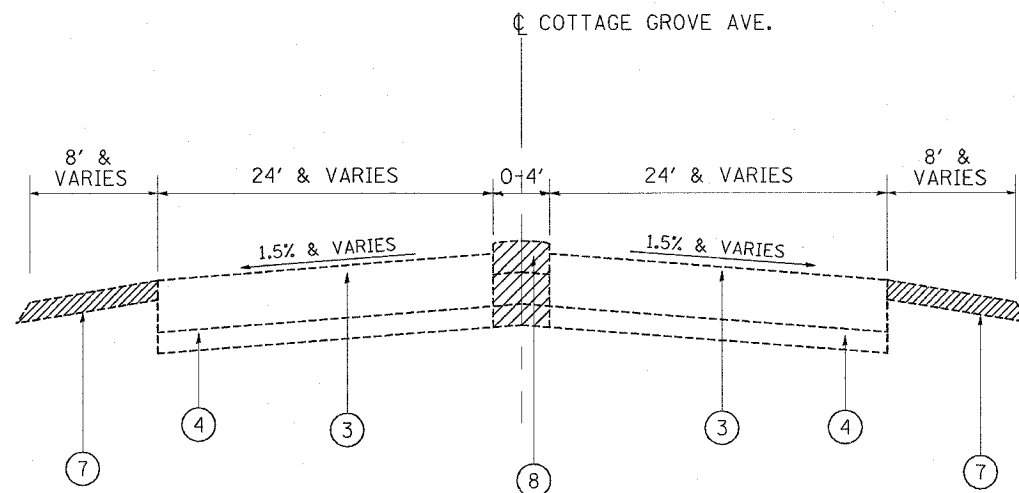
REV. 1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	10
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

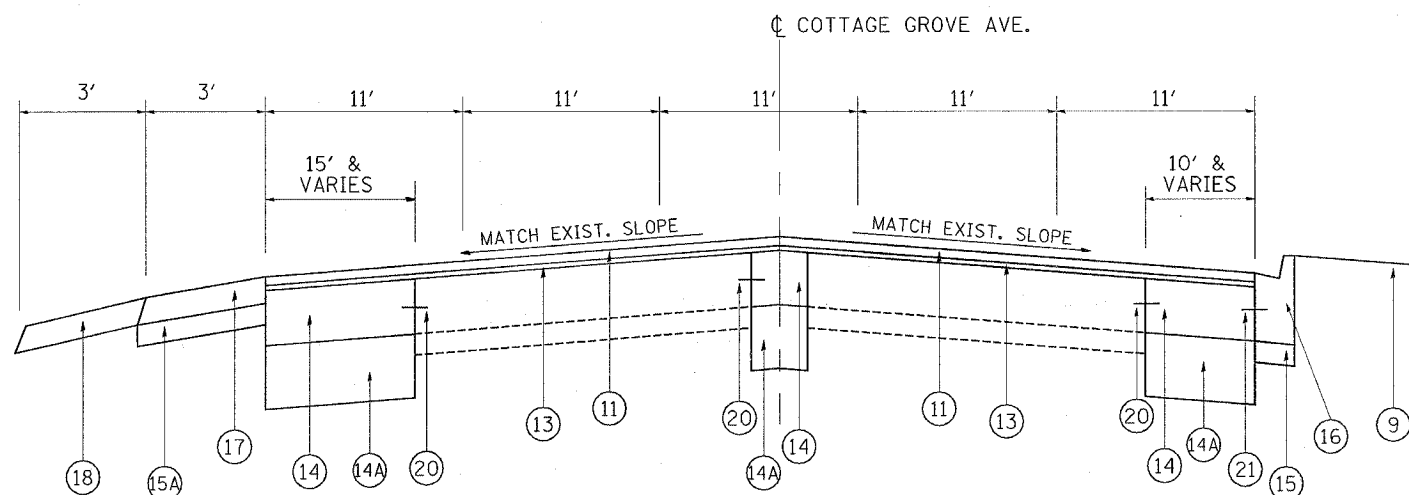
LEGEND

- ① EXIST. HMA PAVEMENT, 3''(±)
- ①A EXIST. HMA PAVEMENT, 1''(±)
- ② EXIST. P.C.C. BASE COURSE, 10''(±)
- ②A EXIST. HMA BASE COURSE, 10''(±)
- ③ EXIST. P.C.C. SURFACE
- ④ EXIST. SUBBASE GRANULAR MATERIAL, 4''(±)
- ⑤ EXIST. B-6.24 CURB & GUTTER (TO BE REMOVED)
- ⑤A EXIST. SIDEWALK
- ⑥ EXIST. HMA SHOULDER
- ⑦ EXIST. AGGREGATE SHOULDER
- ⑧ EXIST. RAISED/CORRUGATED P.C.C. MEDIAN
- ⑨ EXIST. / PROP. GROUND (SEE CROSS SECTIONS)
- ⑩ PROP. HMA SURFACE REMOVAL, 1''
- ⑪ PROP. POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1¾''
- ⑫ PROP. LEVELING BINDER (MM), N70, 1¾''
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- ㉑ PROP. DRILL AND GROUT #6 TIE BAR, 24'' LONG. (24'' C-C). COST INCLUDED IN PROP. CURB & GUTTER

 PAVEMENT/MEDIAN REMOVAL



**EXISTING TYPICAL SECTION  
COTTAGE GROVE AVE.  
STA. 116+20 TO 121+50**



**PROPOSED TYPICAL SECTION  
COTTAGE GROVE AVE.  
STA. 116+20 TO 121+50**

NOTES:

EXIST. CURB & GUTTER - 116+20 TO 116+65 RT. & LT.  
PROP. B.6-24 CURB & GUTTER 116+20 TO 117+50.

SUBBASE GRAN. MATERIAL, TYPE C TO BE PLACED UNDER  
PROP. HMA SHOULDERS ADJACENT TO ROADWAY WIDENING.

CLASS C PATCHES TO BE PLACED ON COTTAGE GROVE AVE.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<b>EXISTING AND PROPOSED TYPICAL SECTIONS COTTAGE GROVE AVE. AT US 30</b>

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_  
DATE \_\_\_\_\_ DRAWN BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_

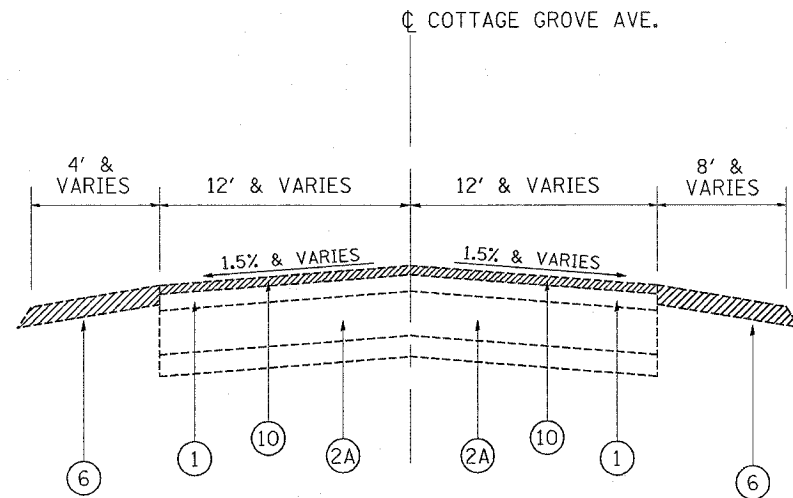
REV. 1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	11
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

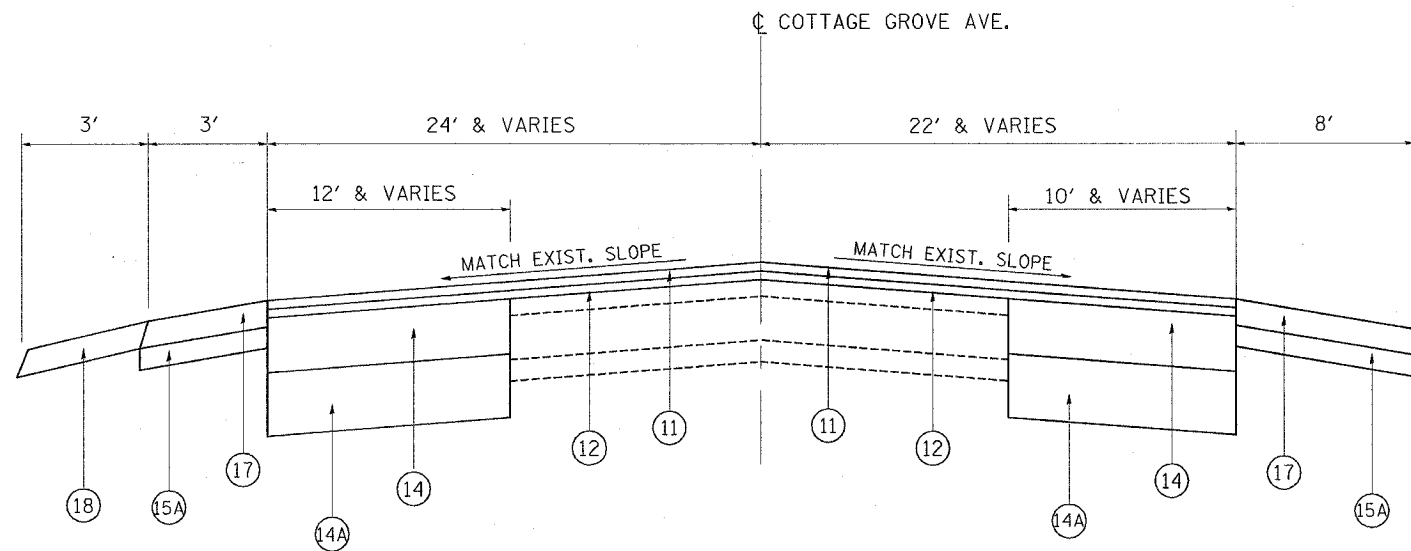
LEGEND

- ① EXIST. HMA PAVEMENT, 3''(±)
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- ② EXIST. P.C.C. BASE COURSE, 10''(±)
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- ⑤A EXIST. SIDEWALK
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- ⑨ EXIST. / PROP. GROUND (SEE CROSS SECTIONS)
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- ⑰ PROP. HMA SHOULDER, 8''
- ⑱ PROP. AGGREGATE SHOULDER, TYPE B, 6''
- ⑲ PROP. SIDEWALK, 5''

 PAVEMENT/MEDIAN REMOVAL



EXISTING TYPICAL SECTION  
COTTAGE GROVE AVE.  
STA. 121+50 TO 127+00



PROPOSED TYPICAL SECTION  
COTTAGE GROVE AVE.  
STA. 121+50 TO 127+00

NOTES:

- PROPOSED B-6.24 CURB & GUTTER - 121+50 TO 122+38 RT.
- CLASS C PATCHES TO BE PLACED ON COTTAGE GROVE AVE.
- APPLY STRIP REFLECTIVE CRACK CONTROL TREATMENT TO COTTAGE GROVE AVE (STA. 121+50 TO 127+00)

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<b>EXISTING AND PROPOSED TYPICAL SECTIONS COTTAGE GROVE AVE. AT US 30</b>
SCALE:	VERT. HORIZ.	DRAWN BY
DATE		CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	12
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

SCHEDULE OF QUANTITIES (EARTHWORK)						
1	2	3	4	5	6	7
US 30 AT COTTAGE GROVE AVE.	EARTH EXCAVATION (CU YD)	UNSUITABLE MATERIAL (CU YD)	EMBANKMENT (CU YD)	ADJUSTMENT FOR SHRINKAGE (CU YD)	FURNISHED EXCAVATION (CU YD)	ROCK EXCAVATION (CU YD)
US 30 - STA. 207+00 TO STA. 215+00	215	494	257	183	-74	0
US 30 - STA. 215+00 TO STA. 219+78	188	0	0	160	160	0
COTTAGE GROVE AVE. - STA. 107+00 TO STA. 115+00	668	714	372	568	196	0
COTTAGE GROVE AVE. - STA. 115+00 TO STA. 127+00	2647	1808	624	2250	1626	450
TOTAL	3718	3016	1253	3161	1908	450
COLUMN 1: LOCATION FROM PLANS COLUMN 2: CUT QUANTITIES AFTER UNSUITABLE MATERIAL IS REMOVED COLUMN 3: MATERIAL THAT IS DETERMINED TO BE EITHER UNSTABLE OR UNSUITABLE FOR USE IN EMBANKMENT (TOP SOIL EXCAVATED AT 12" (300 MM) AVERAGE DEPTH) COLUMN 4: FILL QUANTITIES AFTER UNSUITABLE MATERIAL IS REMOVED		COLUMN 5: EARTH EXCAVATION THAT IS TO BE USED AS FILL MATERIAL IN THE EMBANKMENT, SHRINKAGE FACTOR WAS DETERMINED TO BE 15% COLUMN 6: COLUMN 5 - COLUMN 4, POSITIVE QUANTITY= EXTRA EXCAVATION, NEGATIVE QUANTITY= FURNISHED EXCAVATION NEEDED COLUMN 7: SEE SOILS PROFILE				

NOTES:

1. THE TOP 12" OF TOPSOIL AND EXIST. AGGREGATE SHOULDERS ARE TO BE REMOVED AND PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.
2. POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) TO BE PLACED ON COTTAGE GROVE AVE. FROM STA. 118+50 TO STA. 121+00 AT A THICKNESS OF 12 INCHES FOR THE ENTIRE WEST WIDENING WIDTH. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES PLACEMENT SHOULD BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY A QUALIFIED SOILS INSPECTOR.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

	MIXTURE USE	AC TYPE	AIR VOIDS (%)
ROADWAY	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 MM), 1 3/4"	SBS/SBR PG 70-22	4% @ 90 GYR
	LEVELING BINDER, (MM), IL-9.5, N70, 3/4", 1 3/4"	PG 64-22 *	4% @ 50 GYR
	POLYMERIZED LEVELING BINDER, (MM) IL-4.75, N50, 3/4"	SBS/SBR PG 76-28/-22	4% @ 50 GYR
DRIVEWAYS C.E. & P.E	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL 9.5 MM), 2"	PG 64-22	4% @ 50 GYR
	HOT-MIX ASPHALT BASE COURSE, (BINDER IL-19.0 MM), 6" & 8"	PG 64-22 *	4% @ 50 GYR
SHOULDERS	HOT-MIX ASPHALT SHOULDERS, 8"	PG 64-22 *	2% @ 30 GYR
PATCHES	CLASS D PATCHES, (BINDER IL-19.0 MM), 10"	PG 64-22 *	4% @ 70 GYR
	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES, (BINDER IL-19.0 MM)	PG 64-22 *	4% @ 70 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.

\* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

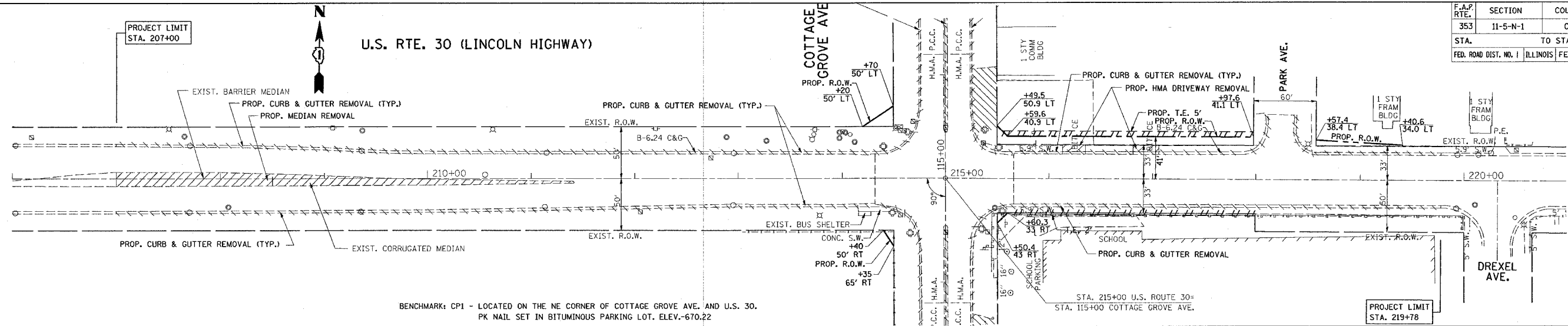
HMA MIX "F" IS USED BECAUSE INTERSECTION IS A HIGH-STRESS LOCATION

CLASS D PATCHES TO BE PLACED ON US 30 AND CLASS C PATCHES TO BE PLACED ON COTTAGE GROVE AVE.

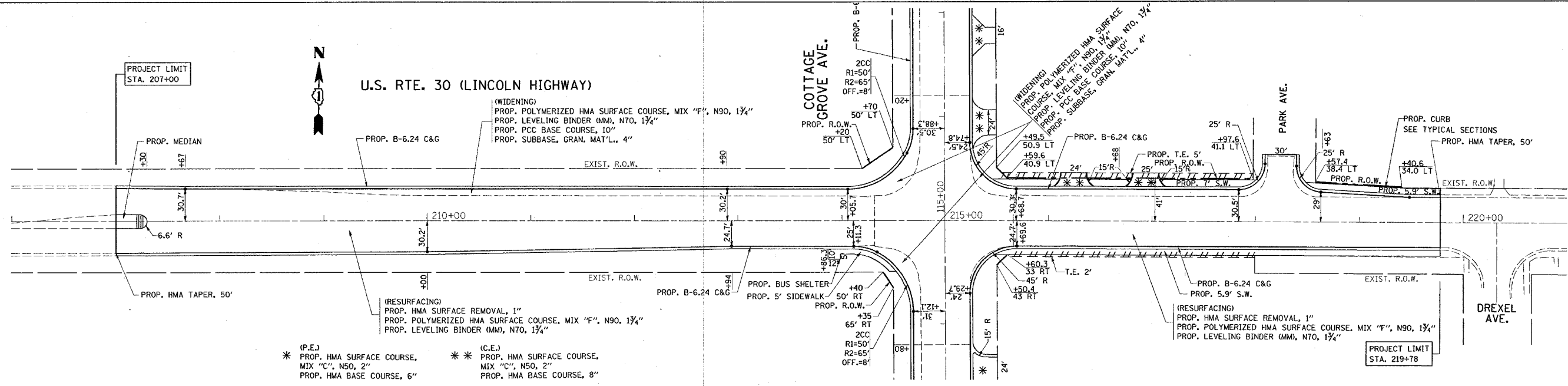
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<p><b>US 30 AT COTTAGE GROVE AVE. SCHEDULE OF QUANTITIES (EARTHWORK) AND HMA MIXTURE CHART</b></p> <p>SCALE: VERT. _____ HORIZ. _____ DATE _____</p> <p>DRAWN BY _____ CHECKED BY _____</p>

REV. 1

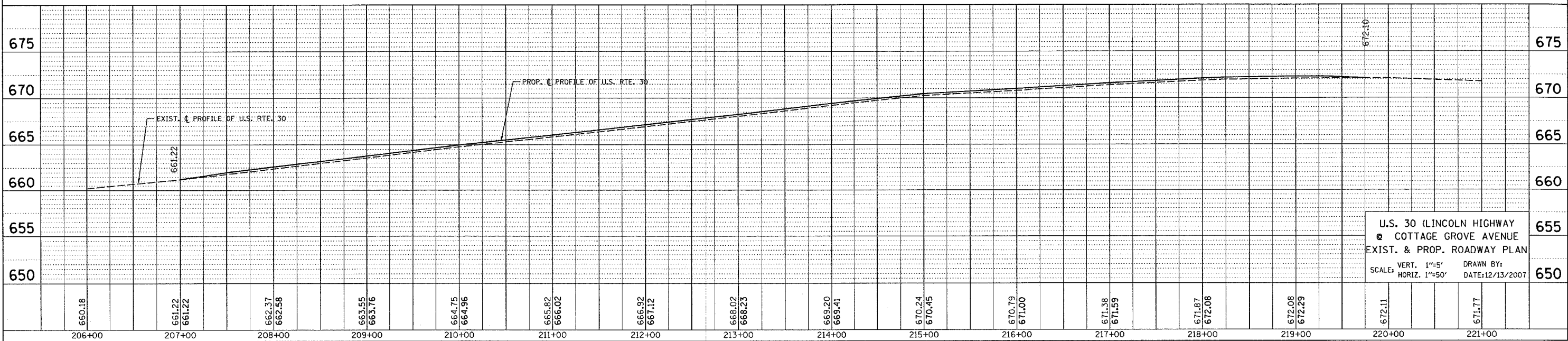
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	13
STA. 207+00		TO STA. 219+78		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



BENCHMARK: CPI - LOCATED ON THE NE CORNER OF COTTAGE GROVE AVE. AND U.S. 30. PK NAIL SET IN BITUMINOUS PARKING LOT. ELEV.-670.22



\* (P.E.) PROP. HMA SURFACE COURSE, MIX "C", N50, 2" PROP. HMA BASE COURSE, 6"  
 \* (C.E.) PROP. HMA SURFACE COURSE, MIX "C", N50, 2" PROP. HMA BASE COURSE, 8"



U.S. 30 (LINCOLN HIGHWAY)  
 @ COTTAGE GROVE AVENUE  
 EXIST. & PROP. ROADWAY PLAN  
 SCALE: VERT. 1"=5' HORIZ. 1"=50'  
 DRAWN BY: DATE: 12/13/2007

REV. 1

PLAN	DATE
REVISIONS	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

PROFILE	DATE
REVISIONS	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

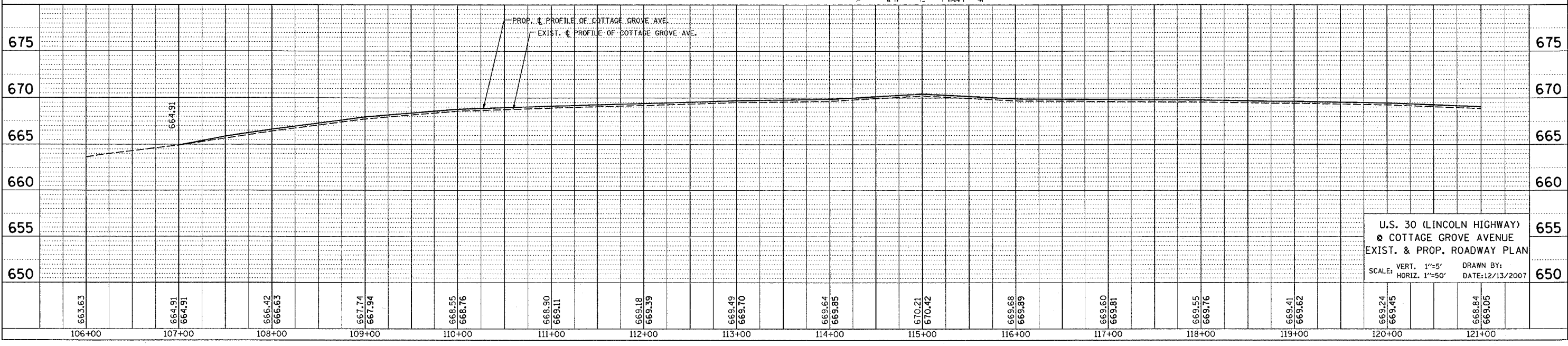
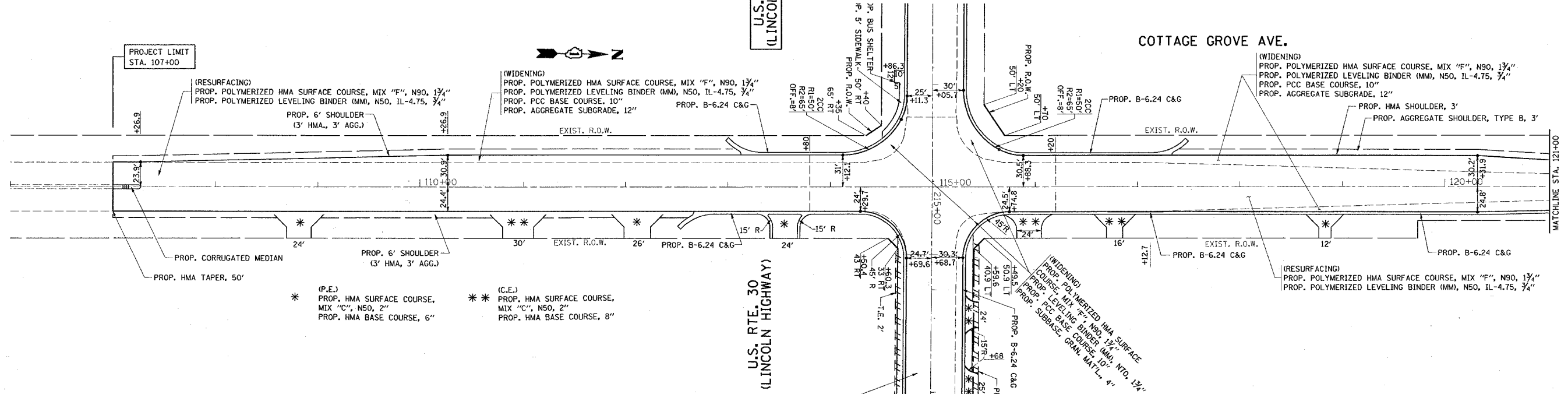
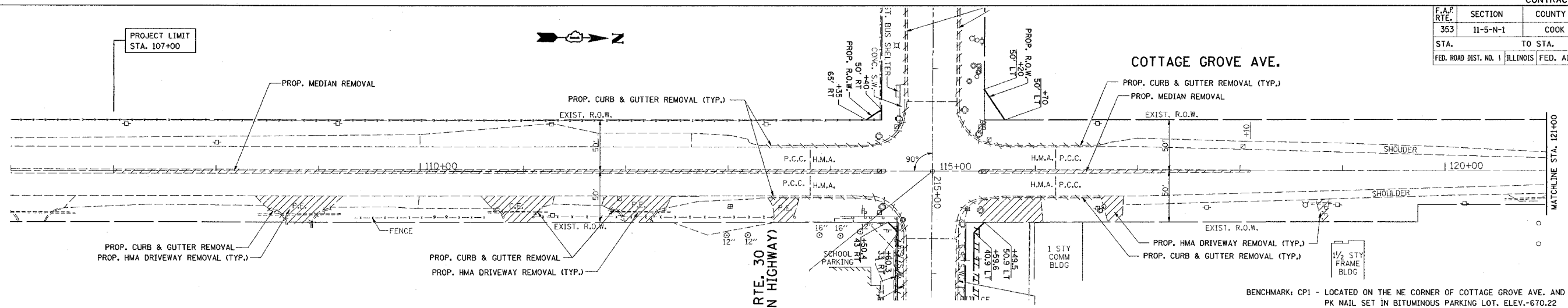
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	14
STA. 107+00		TO STA. 121+00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLAN	DATE
BY	
CHECKED	
DATE	

PROFILE	DATE
BY	
CHECKED	
DATE	

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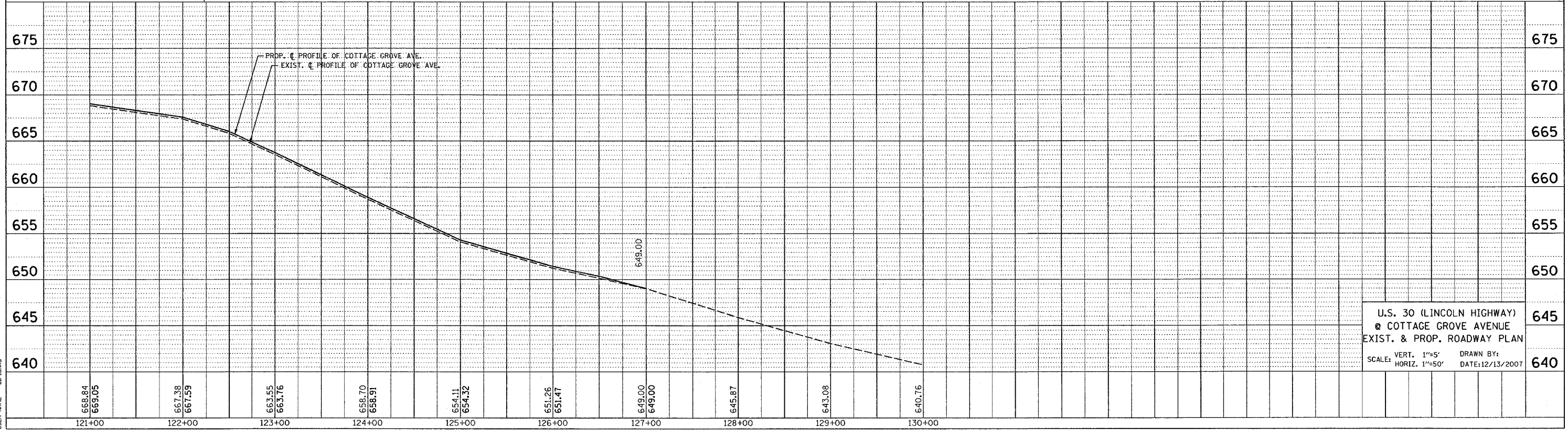
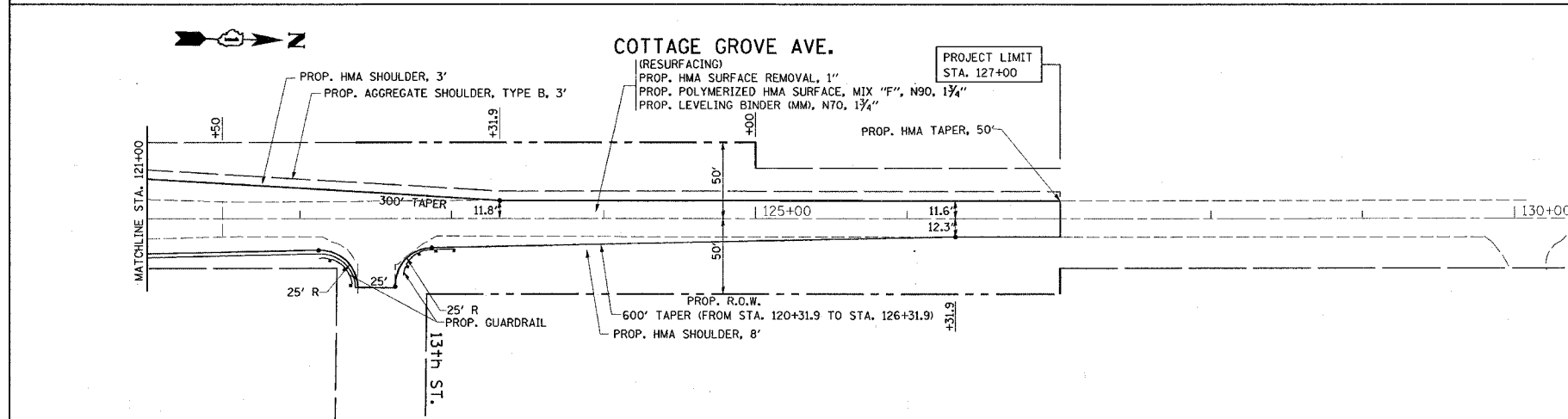
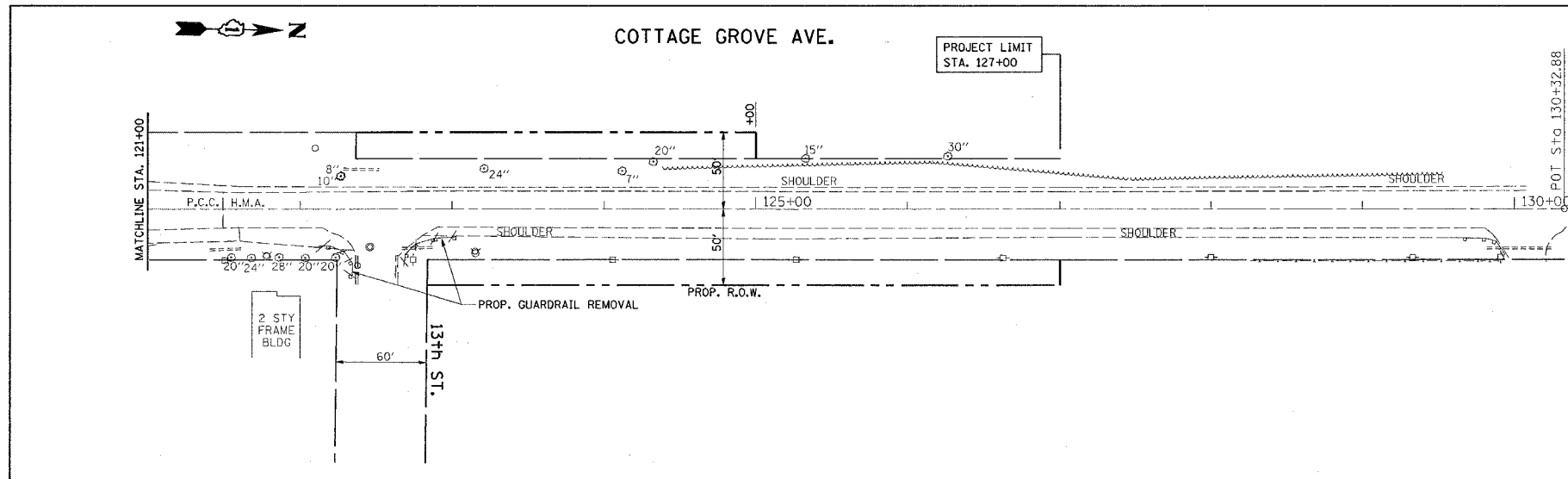


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	15
STA.		TO STA.		
FED. ROAD DIST. NO.   ILLINOIS		FED. AID PROJECT		

DATE	BY

DATE	BY

PLOT DATE = 12/13/2007  
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 USER NAME = dshindler



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	16
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

NO.	ROUTE	STATION	OFFSET	STRUCTURE TYPE			DIA.	FRAME	TOP OF FRAME	INVERT	INVERT	INVERT	INVERT
				MH	CB	INL							
1	US 30	209+37	31.56' LT.		TA		4'	T 24	663.7			*	*
2	US 30	211+15	31.43' LT.		TA		4'	T 24	665.7			*	*
3	US 30	212+95	31.28' LT.		TA		4'	T 24	667.6			*	*
4	US 30	215+56	32.28' LT.	TA			4'	T 24	670.3	664.9(W)	665.0(E)		
5	US 30	215+56	26.71' RT.	TA			4'	T 24	670.3	665.9(W)	666.1(E)		
6	US 30	216+48	32.16' LT.			TB		T 24	670.7	665.9(W)	666.0(E)		
7	US 30	216+48	26.23' RT.			TB		T 24	670.8	666.4(W)	666.5(E)		
8	US 30	217+18	32.24' LT.			TB		T 24	671.1	666.7(W)	666.9(E)		
9	US 30	217+18	26.26' RT.			TB		T 24	671.2	666.8(W)	666.9(E)		
10	US 30	218+63	28.61' LT.	TA			4'	T 24	671.8	667.3(W)			
11	US 30	218+63	24.34' RT.	TA			4'	T 24	671.7	667.3(W)			
12	C.G. AVE.	109+15	36.40' RT.			TB		T 8	666.7			663.0(S)	663.3(N)
13	C.G. AVE.	111+30	34.60' RT.	TA			4'	T 8	667.7			663.9(S)	664.2(N)
14	C.G. AVE.	112+50	36.19' RT.			TB		T 8	668.5			664.6(S)	664.8(N)
15	C.G. AVE.	113+85	35.69' RT.			TB		T 24	669.6	665.9(W)		665.2(S)	665.4(N)
15A	C.G. AVE.	113+85	25.67' RT.			TB		T 8	669.6		666.0(E)		
16	C.G. AVE.	114+40	34.98' RT.	TA			4'	T 8	669.7			665.6(S)	665.7(N)
17	C.G. AVE.	115+60	26.97' RT.	TA			4'	T 24	669.7			664.4(S)	664.1(N)
18	C.G. AVE.	116+53	26.25' RT.			TB		T 24	669.6			663.2(S)	662.9(N)
19	C.G. AVE.	118+60	24.77' RT.	TA			4'	T 24	669.4			661.0(S)	660.8(N)
20	C.G. AVE.	120+35	26.19' RT.			TB		T 24	669.1			659.2(S)	658.9(N)
21	C.G. AVE.	122+20	21.92' RT.	TA			4'	T 24	667.0			657.2(S)	656.9(N)
**	C.G. AVE.	123+00	21.58' RT.	TA			4'	CL	663.3			656.2(S)	655.9(N)

NOTES:

- \* 1. STRUCTURE INVERTS TO BE DETERMINED IN THE FIELD.
- \*\* 2. STRUCTURE NO. 22 IS A MANHOLE, TYPE A, WITH A RESTRICTOR PLATE
- 3. 4-INCH DIAMETER LONGITUDINAL PIPE UNDERDRAINS TO BE PLACED AT THE OUTSIDE EDGES OF PROPOSED WIDENING AREAS 30 INCHES BELOW THE PROPOSED PAVEMENT GRADE AT THE FOLLOWING LOCATIONS:

US 30 (NORTH WIDENING):  
 STA. 209+40 TO 210+40  
 STA. 215+56 TO 216+50

COTTAGE GROVE AVE. (WEST WIDENING):  
 STA. 109+10 TO 110+10  
 STA. 121+20 TO 122+20

COTTAGE GROVE AVE. (EAST WIDENING):  
 STA. 121+50 TO 122+20

NO.	ROUTE	STATION - STATION	TYPE	DIA. (IN.)	LIN. FT.
1	US 30	209+37, 24' LT. - 209+37, 30' LT.	1	12	6.0
2	US 30	209+37, 32' LT. - 209+37, 43' LT.	1	12	11.0
3	US 30	211+15, 23' LT. - 211+15, 30' LT.	1	12	7.0
4	US 30	211+15, 32' LT. - 211+05, 41' LT.	1	12	12.0
5	US 30	212+95, 24' LT. - 212+95, 30' LT.	1	12	6.0
6	US 30	212+95, 32' LT. - 212+92, 38' LT.	1	12	7.0
7	US 30	215+56, 32' LT. - 216+48, 32' LT.	1	15	92.0
8	US 30	215+56, 27' RT. - 216+48, 26' RT.	1	15	92.0
9	US 30	216+48, 32' LT. - 217+18, 32' LT.	1	12	70.0
10	US 30	216+48, 26' RT. - 217+18, 26' RT.	1	15	70.0
11	US 30	217+18, 32' LT. - 218+63, 29' LT.	1	12	145.0
12	US 30	217+18, 26' RT. - 218+63, 24' RT.	1	15	145.0
13	C.G. AVE.	108+00, 42' RT. - 109+15, 36' RT.	1	18	115.0
14	C.G. AVE.	109+15, 36' RT. - 111+30, 35' RT.	1	18	215.0
15	C.G. AVE.	111+30, 35' RT. - 112+50, 36' RT.	1	18	120.0
16	C.G. AVE.	112+50, 36' RT. - 113+85, 36' RT.	1	18	135.0
17	C.G. AVE.	113+85, 26' RT. - 113+85, 36' RT.	1	12	10.0
18	C.G. AVE.	113+85, 36' RT. - 114+40, 35' RT.	1	18	55.0
19	SEC US 30 AT C.G. AVE.	(C.G. AVE.) 114+40, 35' RT. - (US 30) 215+56, 27' RT.	1	15	40.0
20	NEC US 30 AT C.G. AVE.	(C.G. AVE.) 115+60, 27' RT. - (US 30) 215+56, 32' LT.	1	15	51.0
21	C.G. AVE.	115+60, 27' RT. - 116+53, 26' RT.	1	18	93.0
22	C.G. AVE.	116+53, 26' RT. - 118+60, 25' RT.	1	18	207.0
23	C.G. AVE.	118+60, 25' RT. - 120+35, 26' RT.	1	18	175.0
24	C.G. AVE.	120+35, 26' RT. - 122+20, 22' RT.	1	18	185.0
25	C.G. AVE.	122+22, 22' RT. - 123+00, 22' RT.	1	18	80.0
26	C.G. AVE.	123+00, 22' RT. - 124+50, 34' RT.	1	18	150.0

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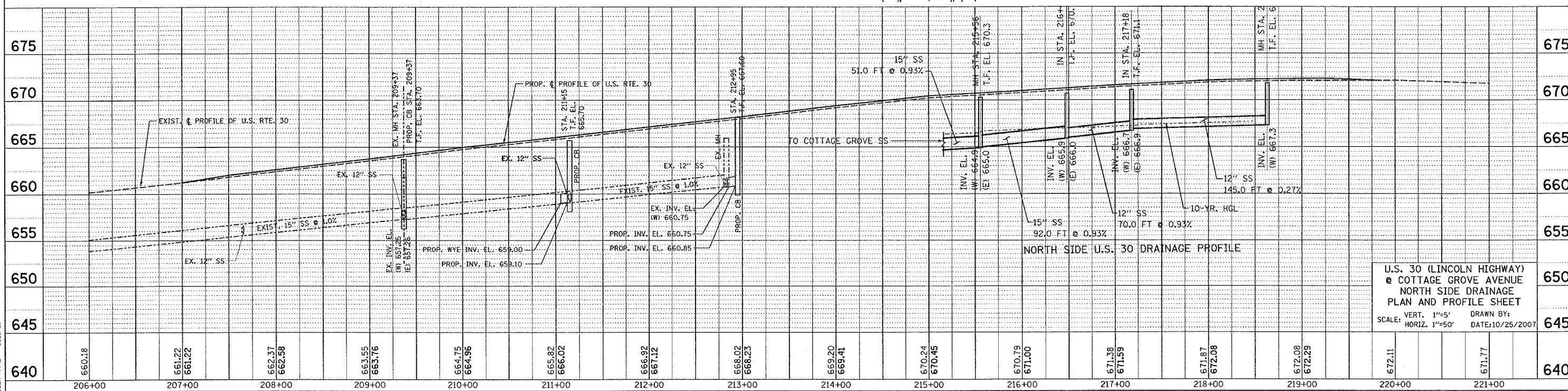
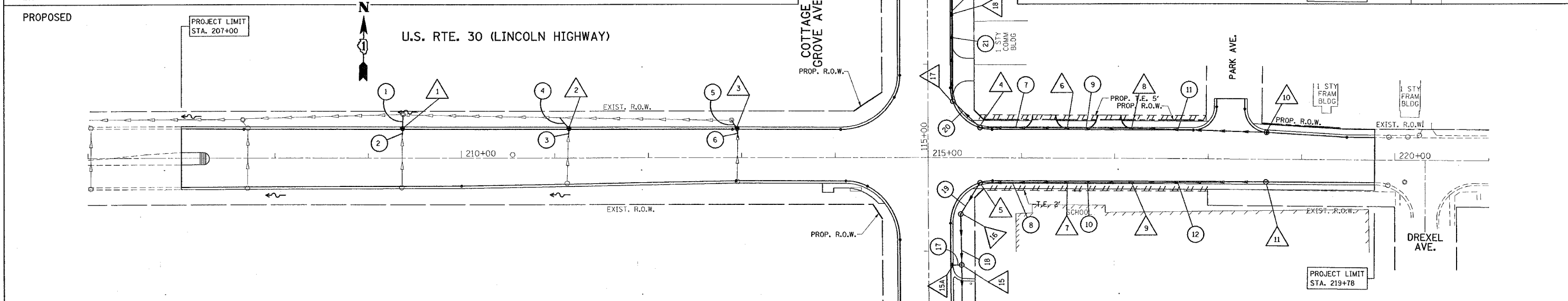
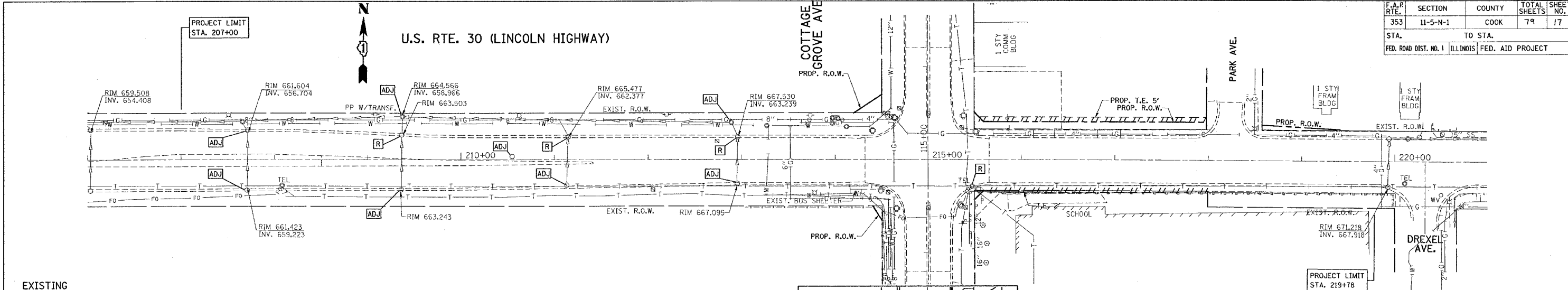
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		<b>US 30 AT COTTAGE GROVE AVE.                      PROPOSED DRAINAGE TABLE</b>
SCALE: VERT. _____		DRAWN BY _____
DATE _____		



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	17
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

PLAN	DATE	BY
SURVEYED		
NOTED		
PLOTTED		
FILED		
NO. _____		
DATE _____		
BY _____		

PROFIL	DATE	BY
SURVEYED		
NOTED		
PLOTTED		
FILED		
NO. _____		
DATE _____		
BY _____		

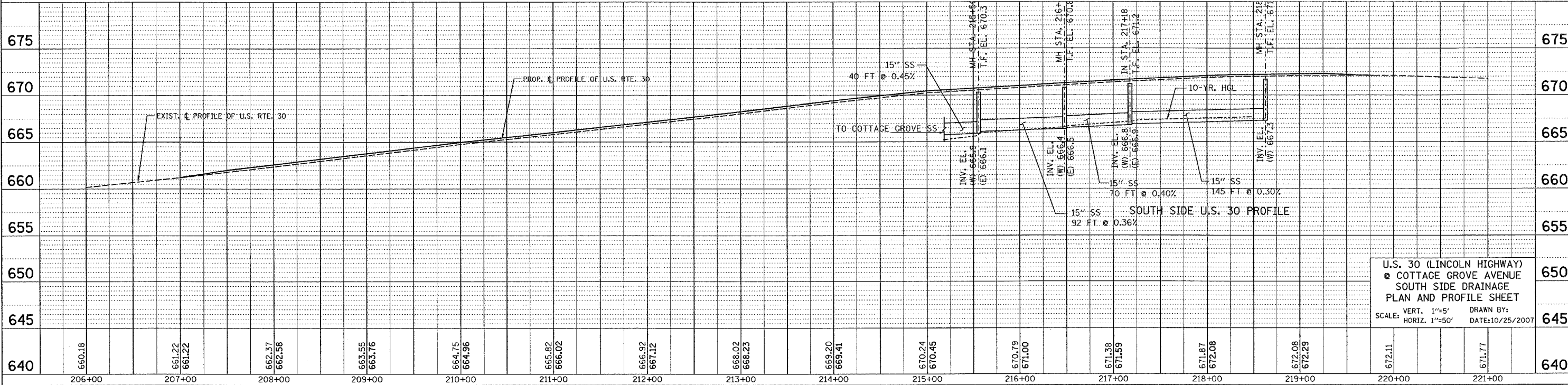
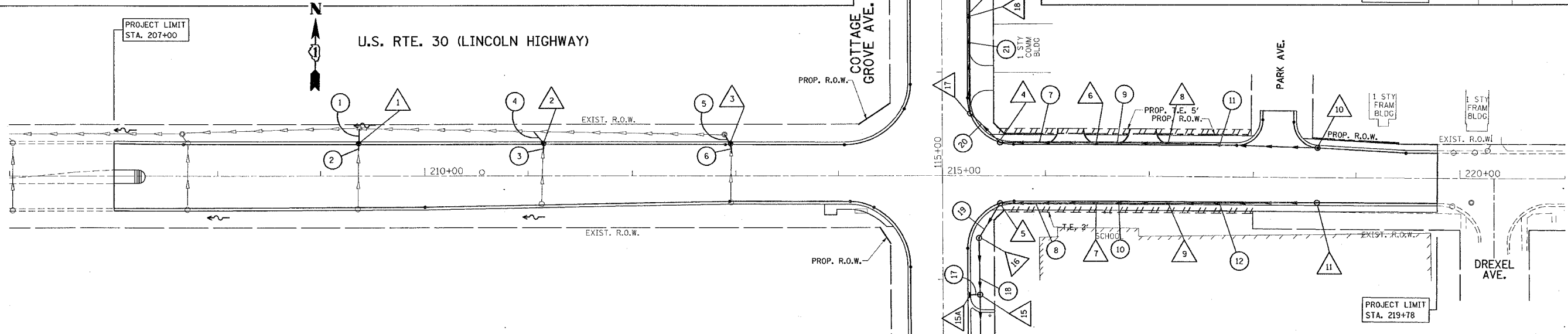
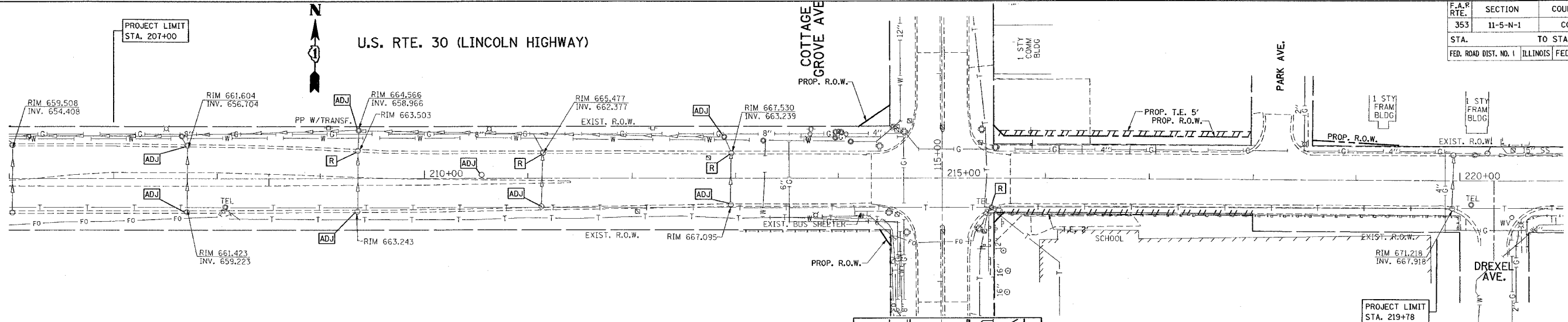


**U.S. 30 (LINCOLN HIGHWAY)  
@ COTTAGE GROVE AVENUE  
NORTH SIDE DRAINAGE  
PLAN AND PROFILE SHEET**  
SCALE: VERT. 1"=5'  
HORIZ. 1"=50'

PLOT DATE = 10/25/2007  
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USER NAME = bward

DRAWN BY:  
DATE: 10/25/2007

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	18
STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



U.S. 30 (LINCOLN HIGHWAY)  
 @ COTTAGE GROVE AVENUE  
 SOUTH SIDE DRAINAGE  
 PLAN AND PROFILE SHEET  
 SCALE: VERT. 1"=5' HORIZ. 1"=50' DRAWN BY: DATE: 10/25/2007

PLAN

DATE	BY

SURVEYED BY: \_\_\_\_\_  
 NOTE BOOK NO.: \_\_\_\_\_  
 ALIGNED CHECKED: \_\_\_\_\_  
 ADJUSTED CHECKED: \_\_\_\_\_  
 CALC. FILE NAME: \_\_\_\_\_

PROFILE

DATE	BY

SURVEYED BY: \_\_\_\_\_  
 NOTE BOOK NO.: \_\_\_\_\_  
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 PRODUCE NOTATIONS: \_\_\_\_\_

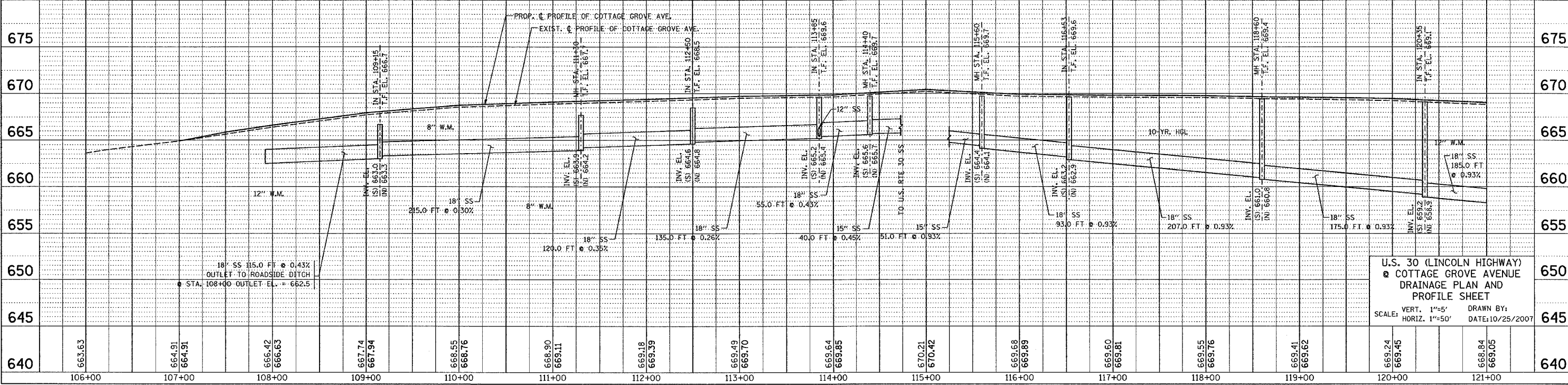
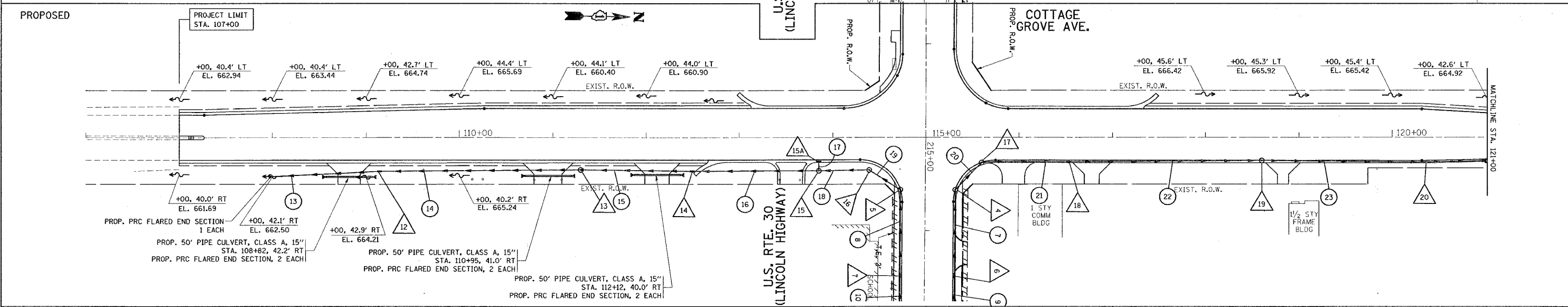
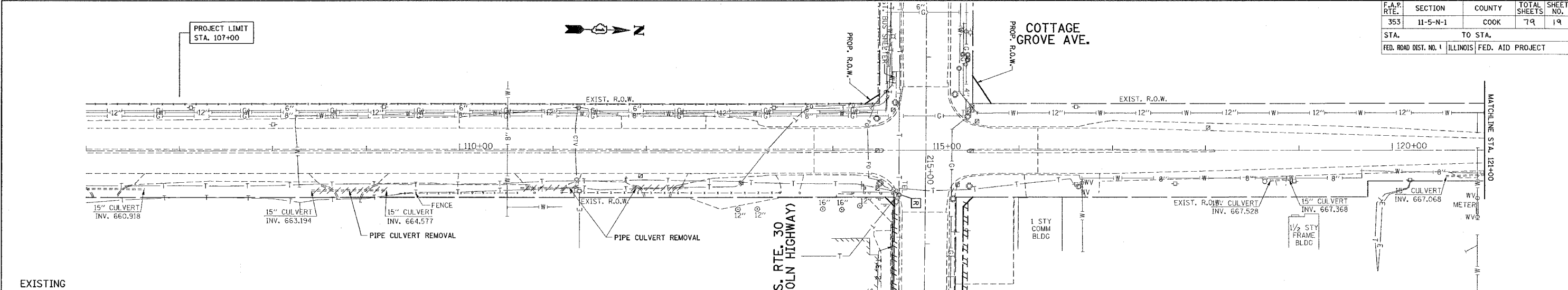
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	19
STA. 107+00		TO STA. 121+00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

PLAN	DATE	BY
SURVEYED		
ALIGNED		
CHECKED		
NOTE BOOK NO.		
DATE		

PROFI	DATE	BY
SURVEYED		
GRADES CHECKED		
PLAN, NOTES		
NO.		
DATE		

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 USER NAME = bsbard



**U.S. 30 (LINCOLN HIGHWAY)  
 & COTTAGE GROVE AVENUE  
 DRAINAGE PLAN AND  
 PROFILE SHEET**  
 SCALE: VERT. 1"=5' DRAWN BY:  
 HORIZ. 1"=50' DATE: 10/25/2007

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	20
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

PLAN

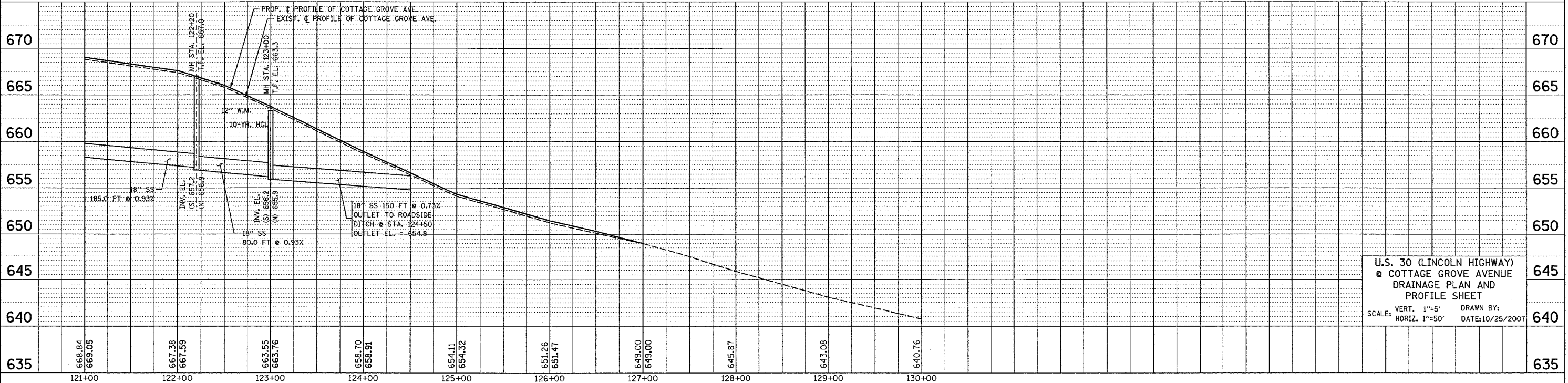
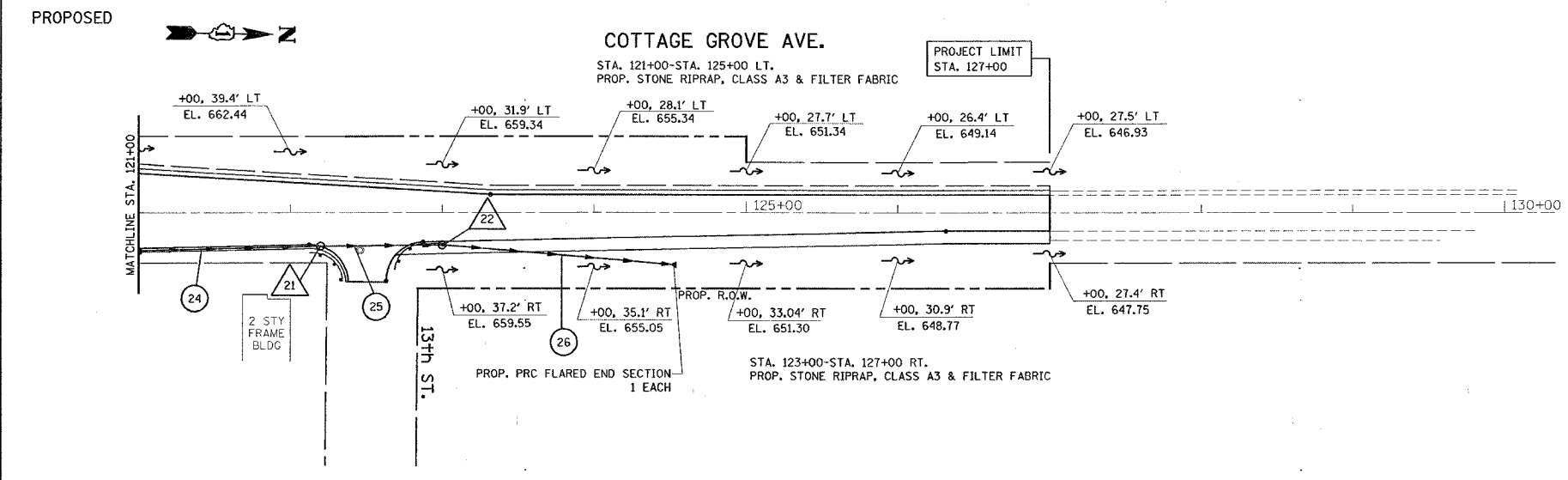
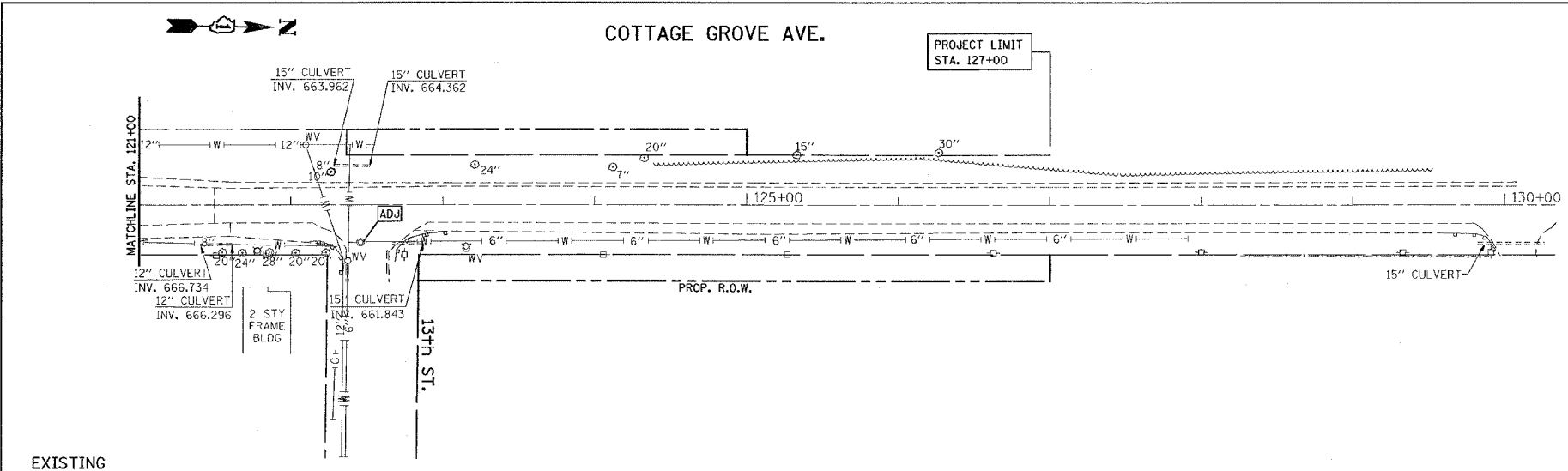
DATE	BY	REVISION

SURVEYED \_\_\_\_\_  
 GRADES CHECKED \_\_\_\_\_  
 STRUCTURE NOTATIONS CHECKED \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 USER NAME \_\_\_\_\_

PROF.

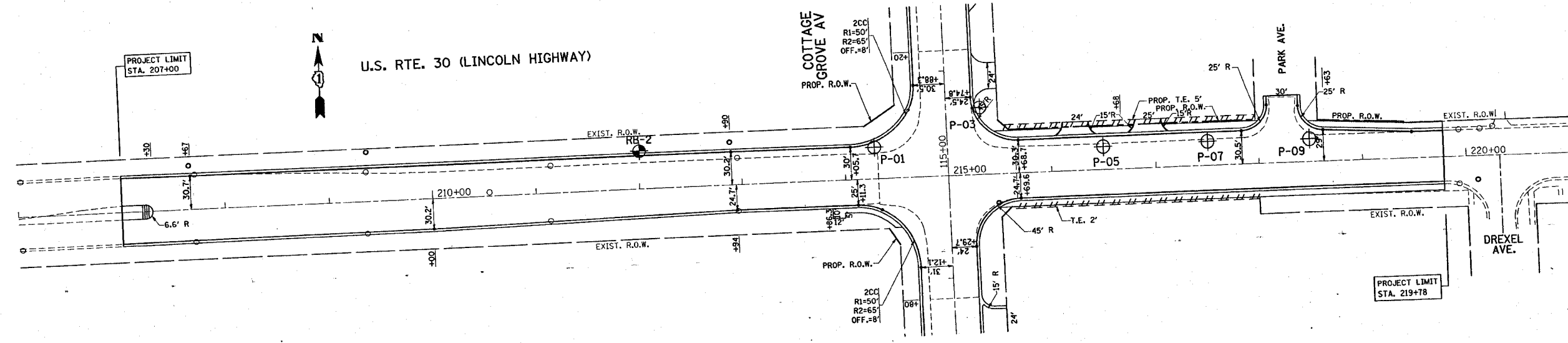
DATE	BY	REVISION

SURVEYED \_\_\_\_\_  
 GRADES CHECKED \_\_\_\_\_  
 STRUCTURE NOTATIONS CHECKED \_\_\_\_\_  
 NOTE BOOK NO. \_\_\_\_\_  
 USER NAME \_\_\_\_\_

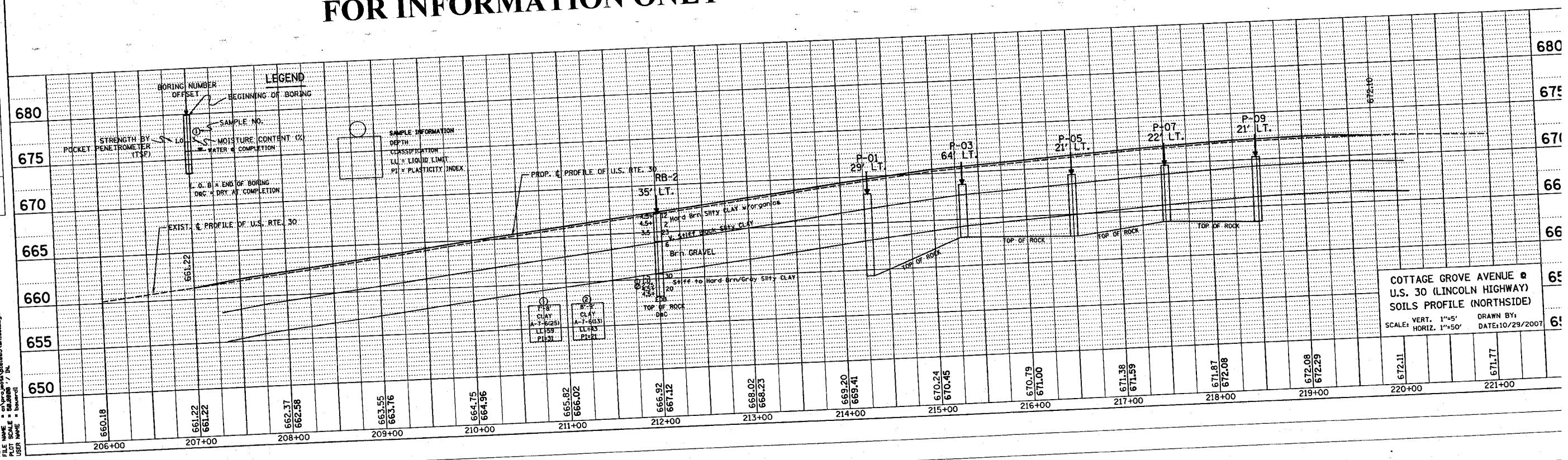


U.S. 30 (LINCOLN HIGHWAY)  
 @ COTTAGE GROVE AVENUE  
 DRAINAGE PLAN AND  
 PROFILE SHEET  
 SCALE: VERT. 1"=5'    DRAWN BY:  
 HORIZ. 1"=50'    DATE: 10/25/2007

PLOT DATE = 10/25/2007  
 FILE NAME = c:\p\j\j\1023\11.dwg  
 USER NAME = j\j\j



## FOR INFORMATION ONLY



COTTAGE GROVE AVENUE •  
U.S. 30 (LINCOLN HIGHWAY)  
SOILS PROFILE (NORTHSIDE)

VERT. 1"=5'  
SCALE: HORIZ. 1"=50'    DRAWN BY:    DATE: 10/29/2007

PLAN SURVEYED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
PLOTTED BY: \_\_\_\_\_  
NOTE BOOK NO. \_\_\_\_\_  
DATE OF W.A. CHECKED: \_\_\_\_\_  
DATE OF P.L. CHECKED: \_\_\_\_\_

PROJECT NO. \_\_\_\_\_ DATE: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DATE OF W.A. CHECKED: \_\_\_\_\_  
DATE OF P.L. CHECKED: \_\_\_\_\_

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USER NAME: daniel

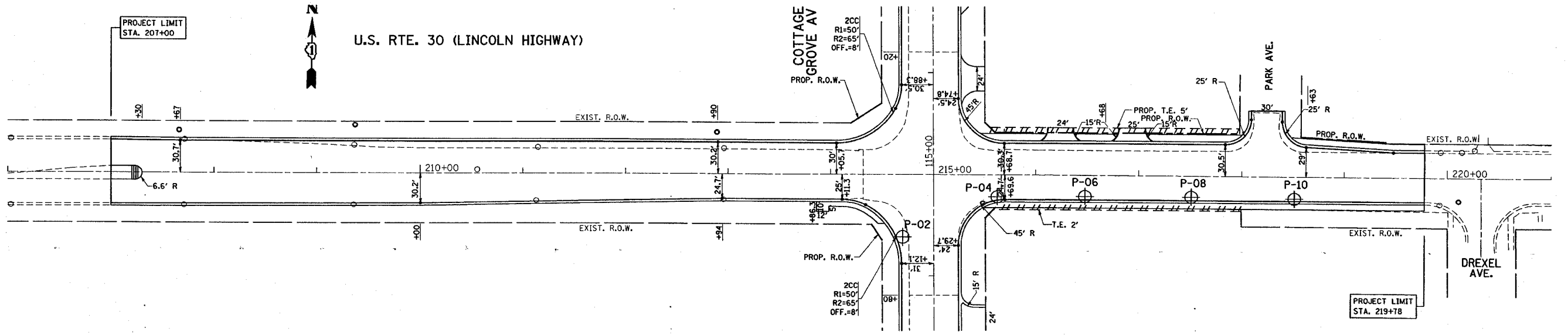
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	22
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT			

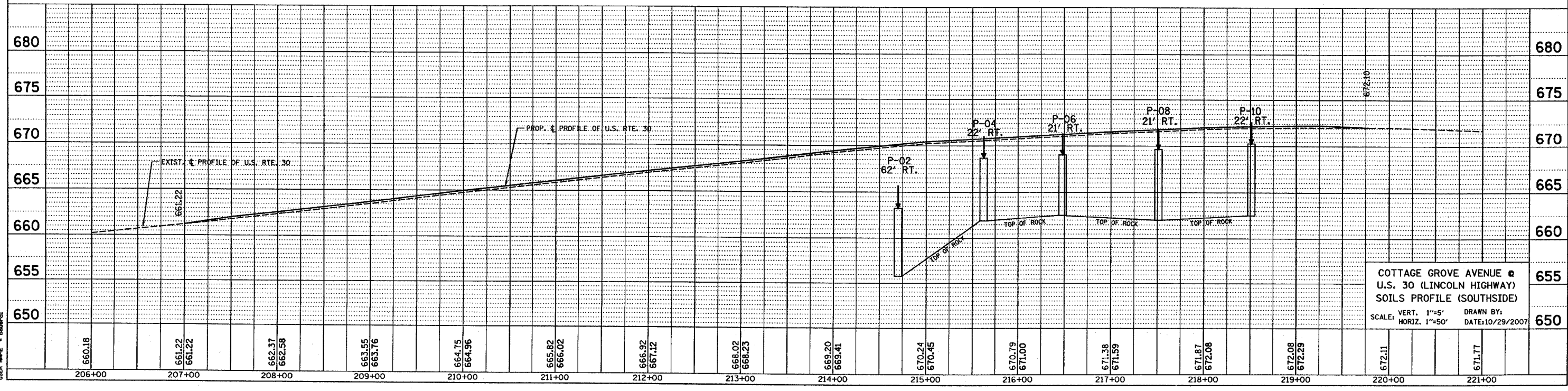
DATE	BY
SURVEYED	
ALIGNED	
CONSTRUCTION	
NO. _____	

DATE	BY
PROJ. E.	
NO. _____	

DATE	
SCALE	
USER NAME	

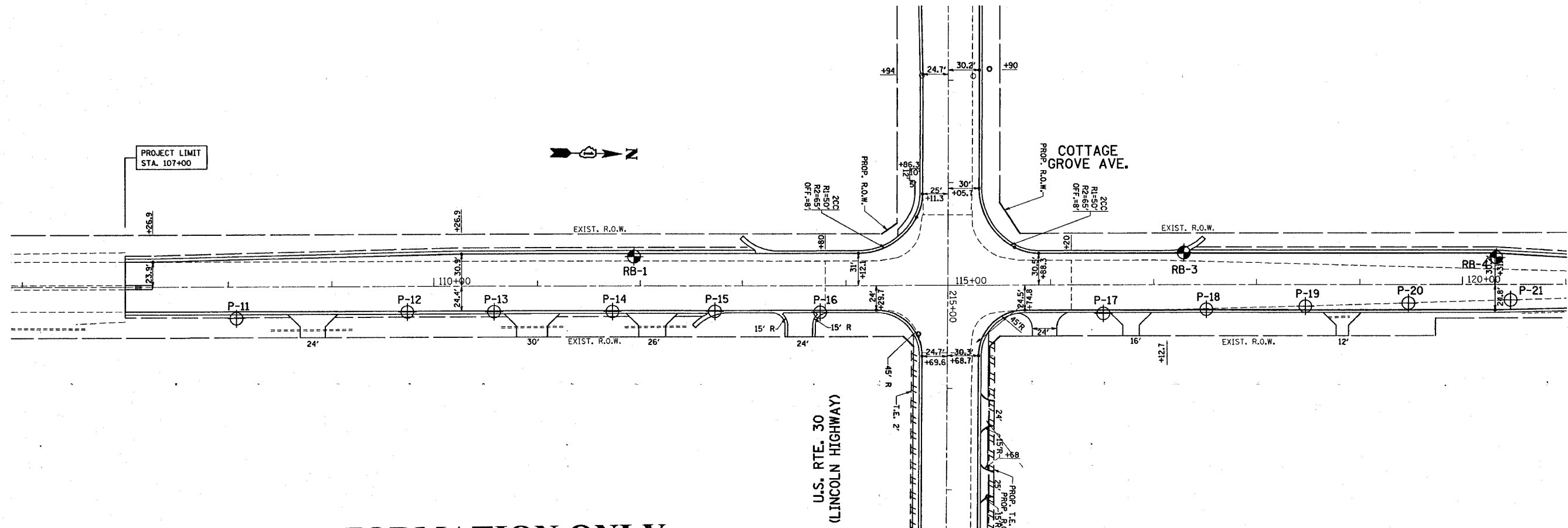


**FOR INFORMATION ONLY**

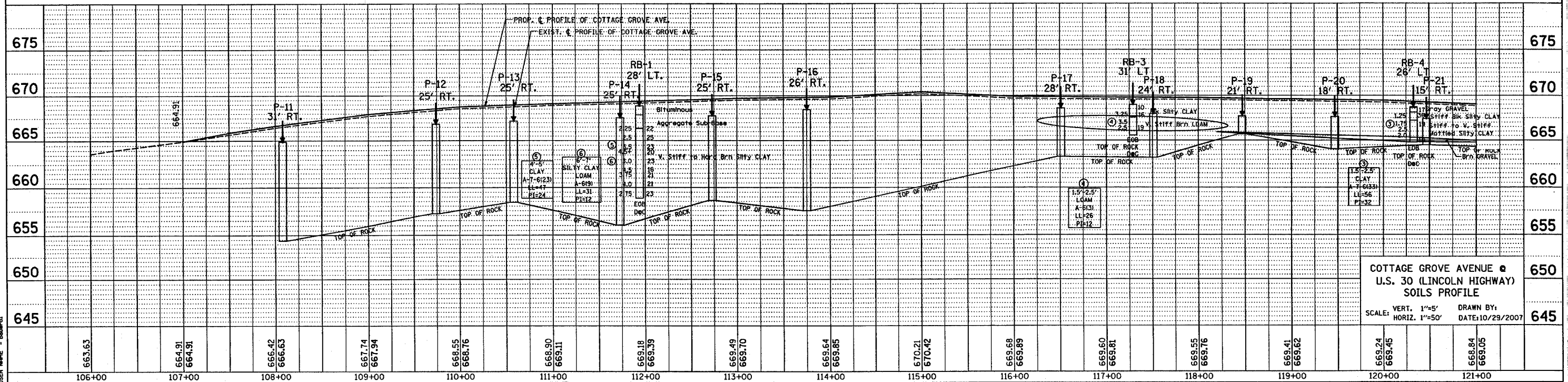


COTTAGE GROVE AV @  
U.S. 30 (LINCOLN HWY)  
SOILS PROFILE (SOUTH SIDE)  
SCALE: VERT. 1"=5'      DRAWN BY:  
              HORIZ. 1"=50'     DATE: 10/29/2007

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	23
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



**FOR INFORMATION ONLY**



COTTAGE GROVE AVENUE  
U.S. 30 (LINCOLN HIGHWAY)  
SOILS PROFILE

SCALE: VERT. 1"=5'  
HORIZ. 1"=50'

DRAWN BY:  
DATE: 10/29/2007

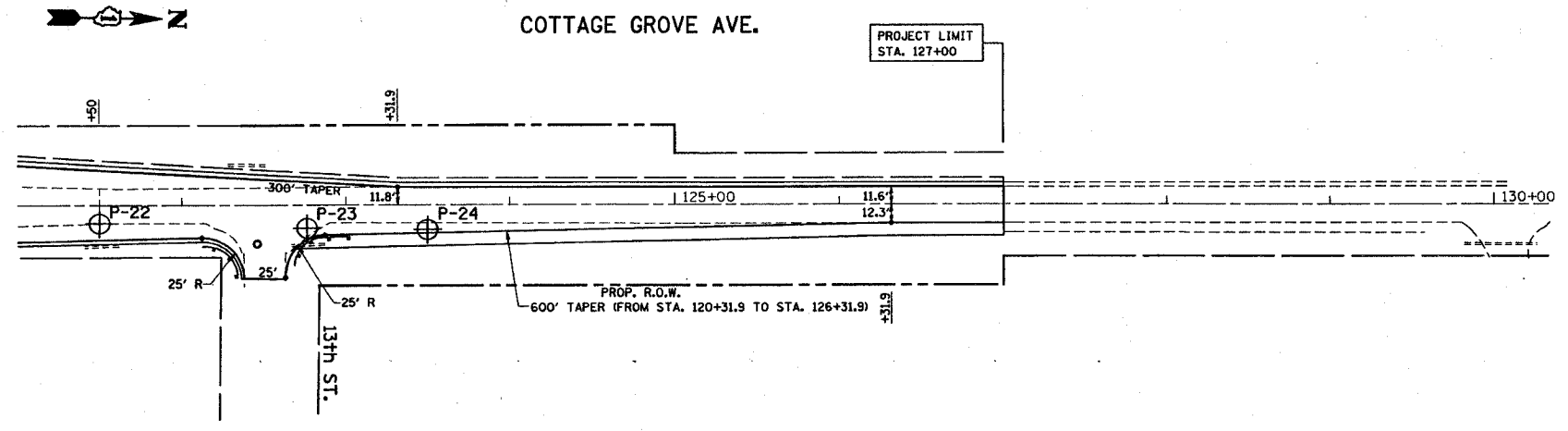
PLAN	DATE
REVISIONS	BY
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

PROF.	DATE
REVISIONS	BY
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

PLOT DATE: 10/29/2007  
PLOT SCALE: 1"=50'  
USER: NAME: [unreadable]

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	74	24
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

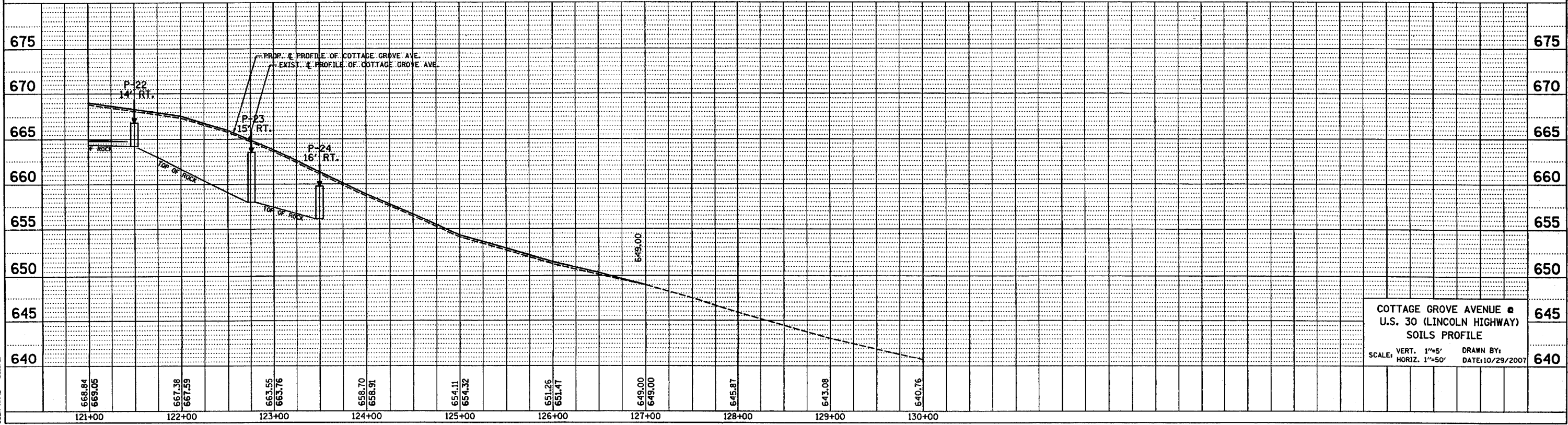
PLAN	DATE
BY	
REVISIONS	
NO.	DESCRIPTION
1	AS SHOWN
2	AS NOTED
3	AS NOTED
4	AS NOTED
5	AS NOTED



Bore Hole Number	Alignment Station	Offset from Center Line	Ground Surface Elevation (feet)	Depth to Top of Rock (feet)	Top of Rock Elevation (feet)
<b>Traffic Signal Locations</b>					
P-1	214+29	29' Lt.	668.12	8.8	659.3
P-2	114+38	30' Lt.	668.27	7.5	660.8
P-3	115+64	33' Rt.	668.71	5.6	663.1
P-4	215+62	22' Rt.	668.67	6.8	661.9
<b>U.S. Route 30 (North Side)</b>					
P-5	216+50	21' Lt.	669.22	6.5	662.7
P-7	217+51	22' Lt.	669.76	6.0	663.8
P-9	218+49	21' Lt.	670.28	6.9	663.4
<b>U.S. Route 30 (South Side)</b>					
P-4	215+62	22' Rt.	668.67	6.8	661.9
P-6	216+48	21' Rt.	669.02	6.5	662.5
P-8	217+51	21' Rt.	669.64	7.6	662.0
P-10	218+51	22' Rt.	670.03	7.5	662.5
<b>Cottage Grove (East Side/ South Leg)</b>					
P-11	108+08	31' Rt.	664.87	10.5	654.4
P-12	109+74	25' Rt.	666.84	9.6	657.2
P-13	110+58	25' Rt.	667.18	8.8	658.4
P-14	111+73	25' Rt.	667.54	11.5	656.0
P-15	112+73	25' Rt.	667.76	9.2	658.6
P-16	113+75	26' Rt.	668.43	10.9	657.5
<b>Cottage Grove (East Side/ North Leg)</b>					
P-3	115+64	33' Rt.	668.71	5.6	663.1
P-17	116+51	28' Rt.	668.58	5.3	663.3
P-18	117+51	24' Rt.	667.95	4.8	663.2
P-19	118+47	21' Rt.	667.68	2.0	665.7
P-20	119+47	18' Rt.	667.64	3.5	664.1
P-21	120+47	15' Rt.	667.40	2.9	664.5
P-22	121+50	14' Rt.	666.86	2.7	664.2
P-23	122+76	15' Rt.	663.46	5.5	658.0
P-24	123+50	16' Rt.	659.77	3.7	656.1

**FOR INFORMATION ONLY**

PROF.	DATE
BY	
REVISIONS	
NO.	DESCRIPTION
1	AS SHOWN
2	AS NOTED
3	AS NOTED
4	AS NOTED
5	AS NOTED



COTTAGE GROVE AVENUE & U.S. 30 (LINCOLN HIGHWAY) SOILS PROFILE  
 VERT. 1"=5'  
 HORIZ. 1"=50'  
 DRAWN BY: DATE: 10/29/2007

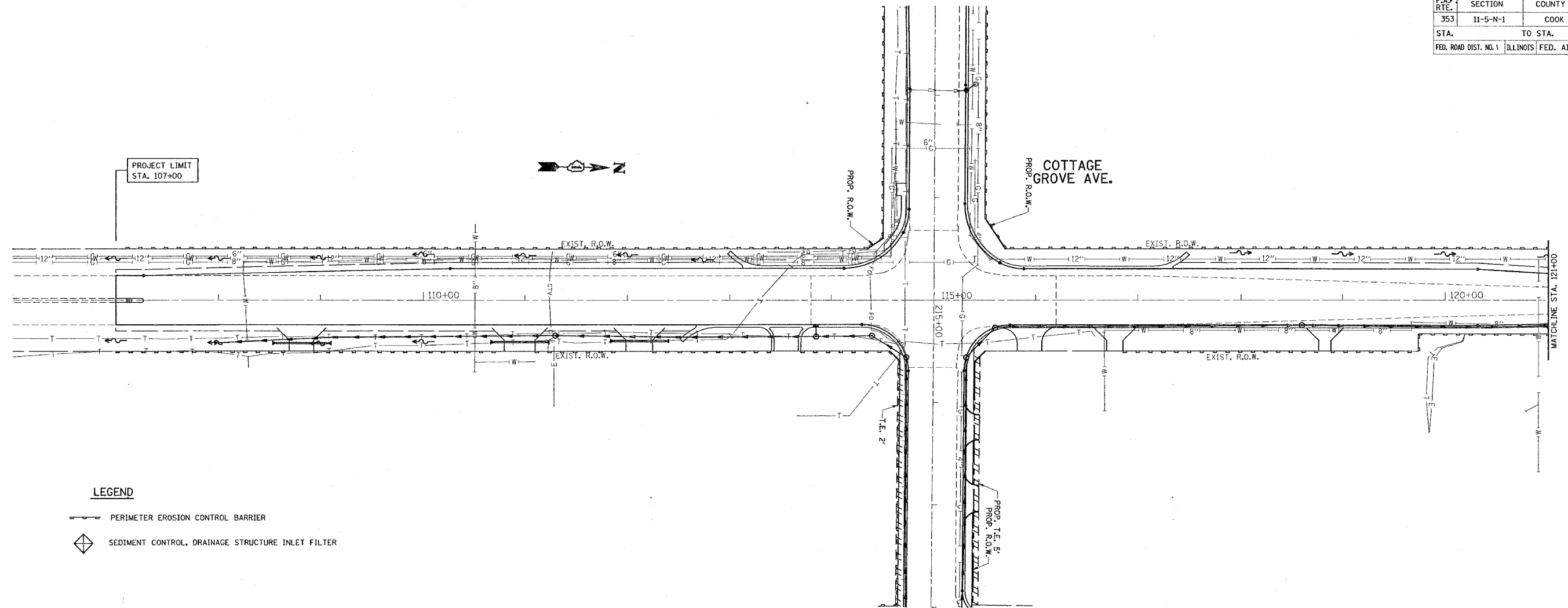
DATE: 10/29/2007  
 FILE NAME: C:\Users\james\Documents\62949\62949.dwg  
 PLOT SCALE: 1"=50'  
 USER NAME: james





\*REF-ero01  
\*REF-ero02

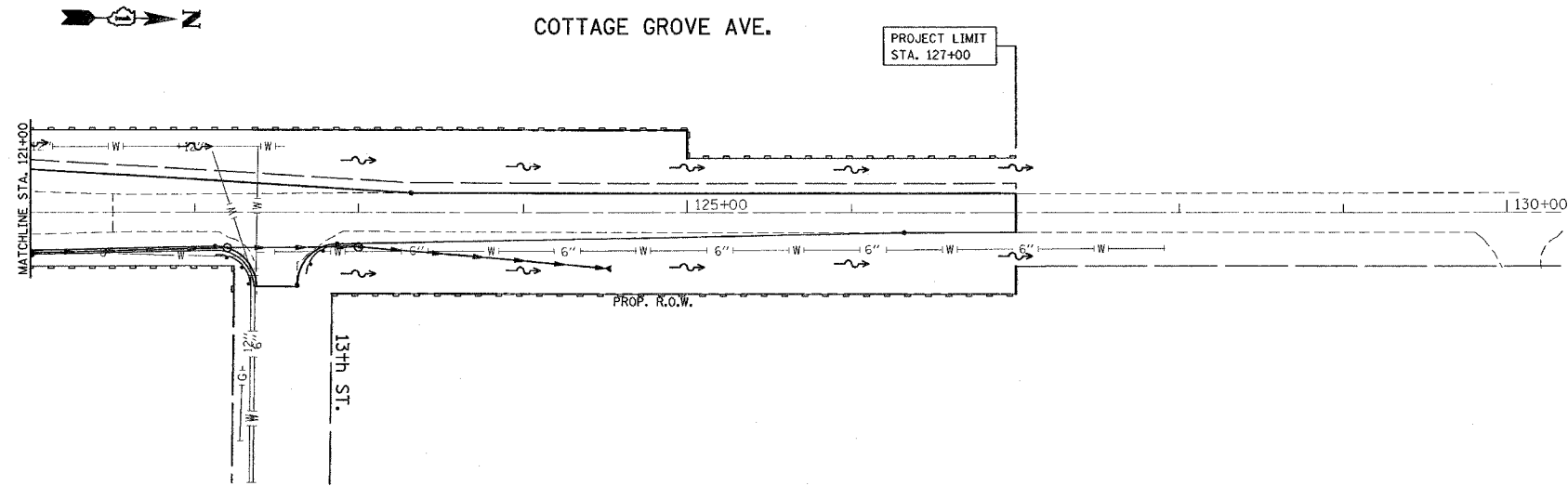
CONTRACT NO. 62949

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	25
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



**LEGEND**

-  PERIMETER EROSION CONTROL BARRIER
-  SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER



**NOTES:**

- ① TEMPORARY EROSION CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS, REFER TO SPECIAL PROVISIONS.
- ② LOCATIONS OF TEMPORARY DITCH CHECKS TO BE DETERMINED BY THE ENGINEER.
- ③ NPDES PERMIT IS REQUIRED FOR THIS PROJECT.
- ④ ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND OF THE APPLICABLE STATE STANDARDS FOR THE ENTIRE DURATION OF THE CONTRACT, OR UNTIL SUCH A TIME AS DIRECTED BY THE ENGINEER.
- ⑤ THE PERIMETER EROSION BARRIER SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

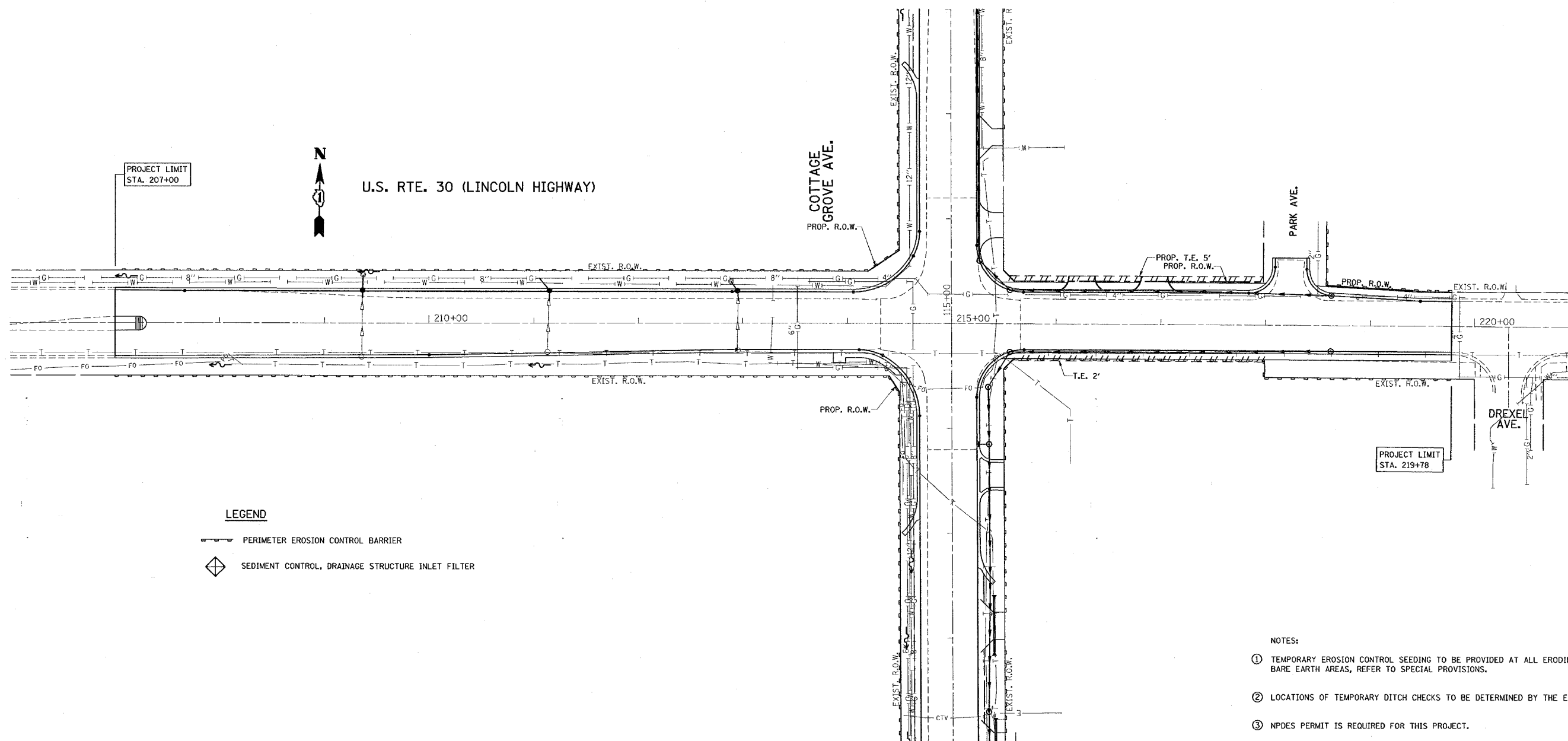
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
COTTAGE GROVE AVENUE  
@ U.S. RTE. 30 (LINCOLN HIGHWAY)  
EROSION CONTROL PLAN


SCALE: 1" = 50'  
DATE: 10/25/2007  
DRAWN BY  
CHECKED BY


PLOT DATE = 10/25/2007  
FILE NAME = c:\projects\1010023\ero\_ero.dgn  
PLOT SCALE = 80.0000 / IN.  
USER NAME = bbase-d

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	26
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



**LEGEND**

 PERIMETER EROSION CONTROL BARRIER

 SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER

- NOTES:
- TEMPORARY EROSION CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS, REFER TO SPECIAL PROVISIONS.
  - LOCATIONS OF TEMPORARY DITCH CHECKS TO BE DETERMINED BY THE ENGINEER.
  - NPDES PERMIT IS REQUIRED FOR THIS PROJECT.
  - ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND OF THE APPLICABLE STATE STANDARDS FOR THE ENTIRE DURATION OF THE CONTRACT, OR UNTIL SUCH A TIME AS DIRECTED BY THE ENGINEER.
  - THE PERIMETER EROSION BARRIER SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

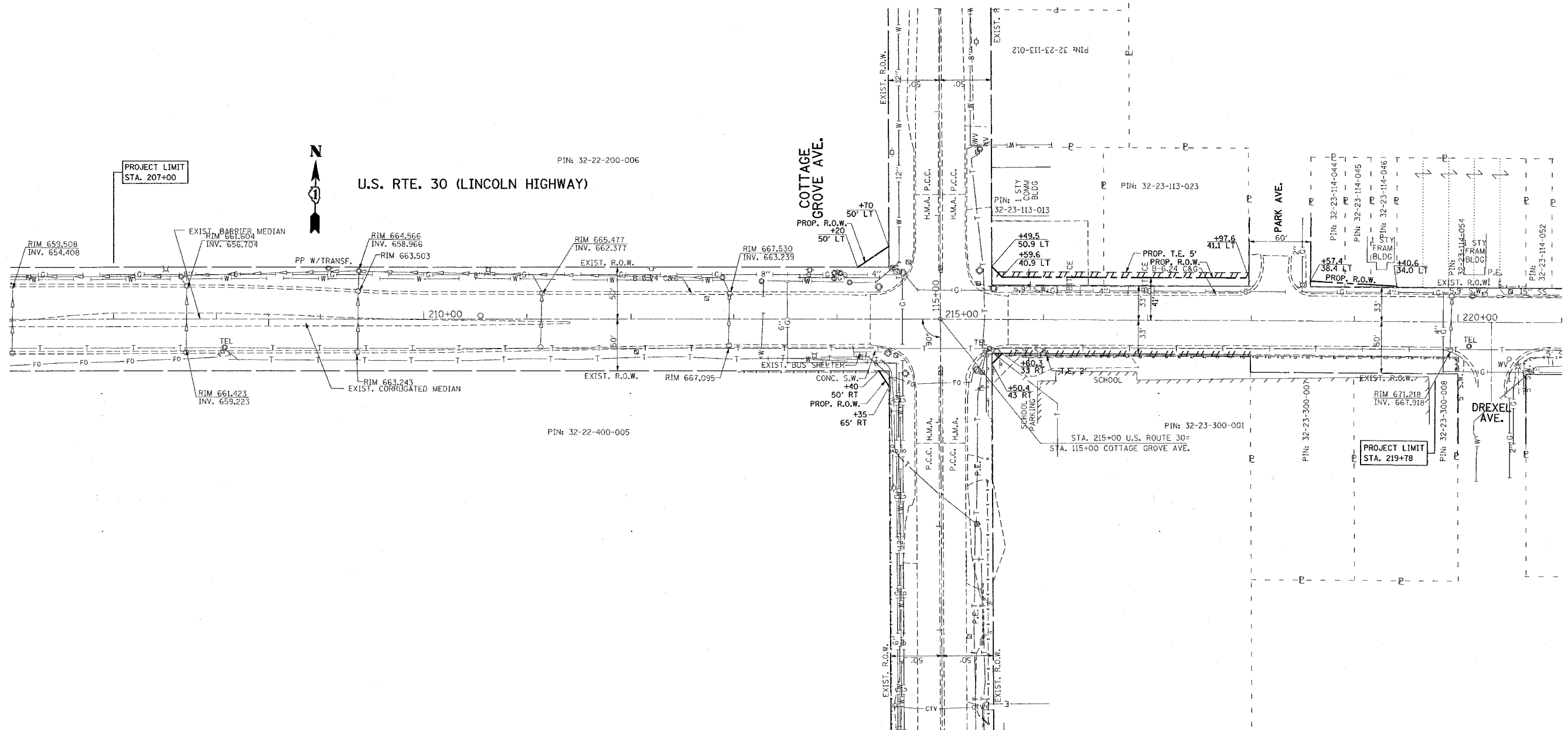
**U.S. RTE. 30 (LINCOLN HIGHWAY)  
@ COTTAGE GROVE AVENUE  
EROSION CONTROL PLAN**

SCALE: 1" = 50'  
DATE: 10/25/2007

DRAWN BY  
CHECKED BY

PLOT DATE = 10/25/2007  
FILE NAME = c:\projects\1011882\11\_ero\_cadgn  
PLOT SCALE = 1/8" = 1' IN.  
USER NAME = bawardi

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	27
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



PLOT DATE = 10/25/2007  
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 PLOT SCALE = 1/8" = 1' / IN.  
 USER NAME = bboard

REVISIONS	
NAME	DATE

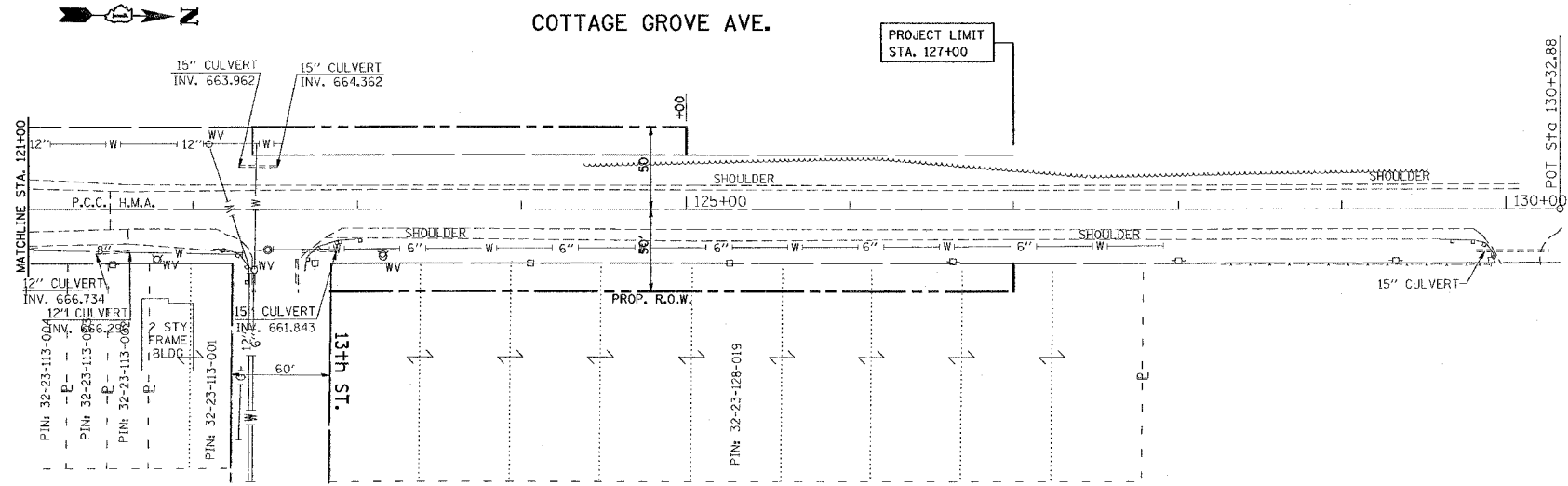
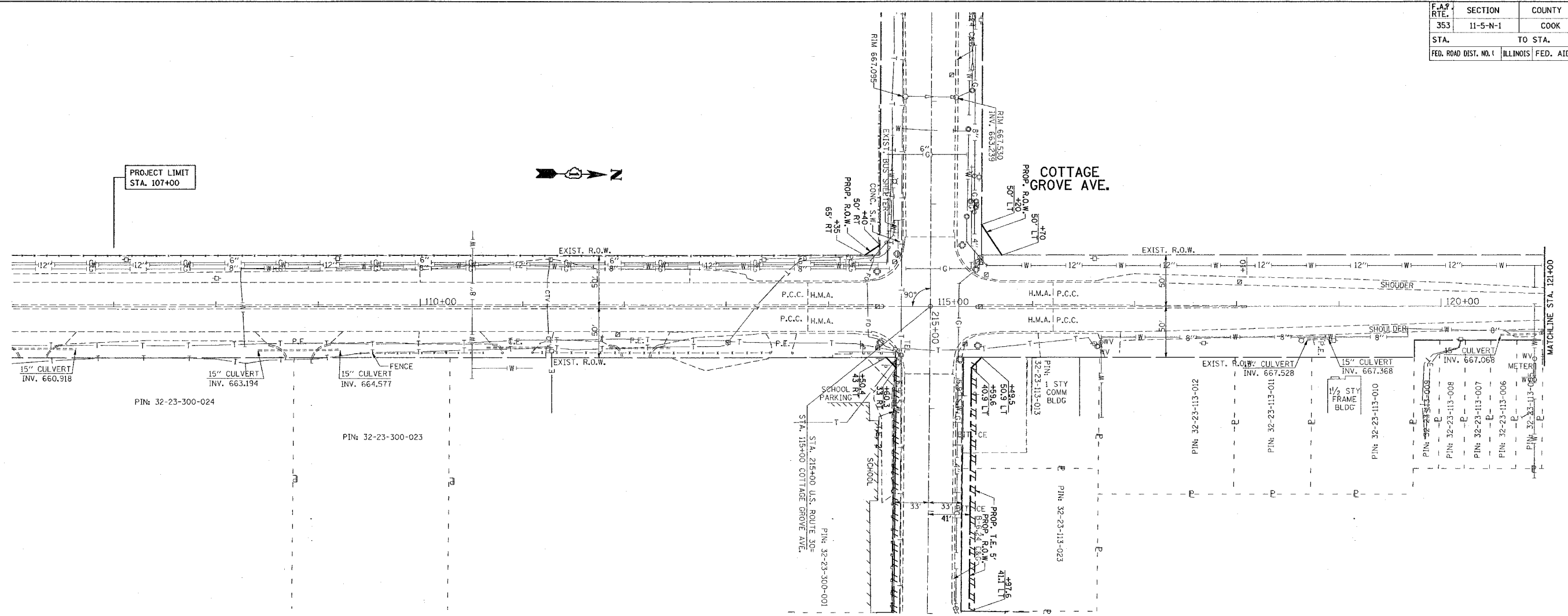
ILLINOIS DEPARTMENT OF TRANSPORTATION

**U.S. RTE. 30 (LINCOLN HIGHWAY)  
@ COTTAGE GROVE AVENUE  
EXISTING UTILITY PLAN**

SCALE: 1" = 50'  
DATE: 10/25/2007

DRAWN BY  
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	28
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



PLOT DATE = 10/24/2007  
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 USER NAME = bauer

REVISIONS	
NAME	DATE

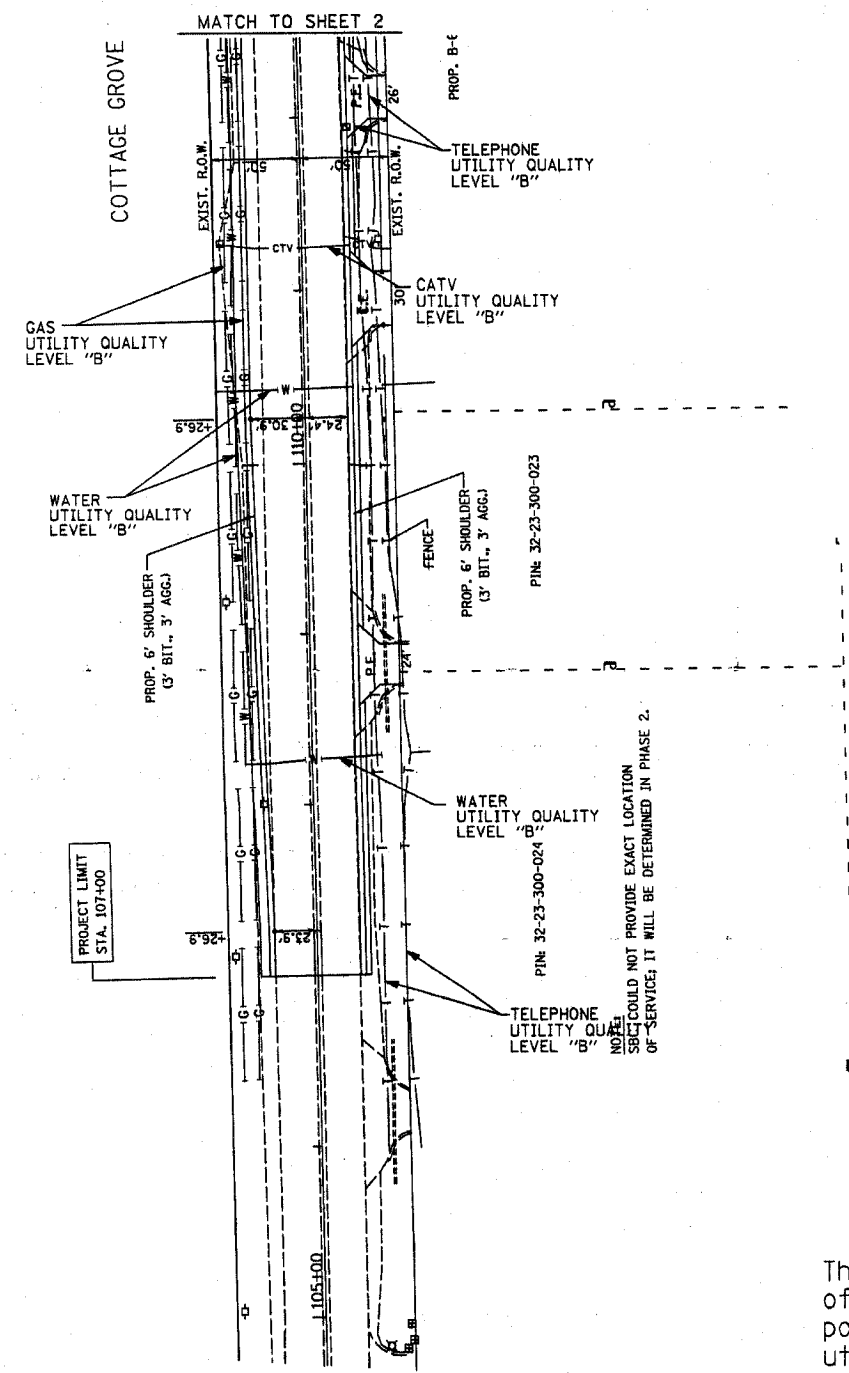
ILLINOIS DEPARTMENT OF TRANSPORTATION

**COTTAGE GROVE AVENUE**  
 @ U.S. RTE. 30 (LINCOLN HIGHWAY)  
 EXISTING UTILITY PLAN

SCALE: 1" = 50'  
 DATE: 10/24/2007

DRAWN BY  
 CHECKED BY

F.A.F. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	Cook	79	29
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



The SBC locations depicted have been obtained through the application of geophysical methods to determine the existence and approximate horizontal position of these facilities. However, SBC will not provide TBE Group, Inc. with utility records nor allow access to their field closures (pedestals/manholes etc.), to help verify the locations of their existing underground facilities. Therefore, TBE is unable to verify the completeness of the SBC locations depicted in accordance with the CI/ASCE Standard 38-02.




**TBE GROUP, INC.**  
 CIVIL ENGINEERING • TRANSPORTATION • ENVIRONMENTAL  
 PLANNING • UTILITY ENGINEERING/LOCATING

IL09500271  
 TBE SUE PAGE NO: 1 of 3  
 Checked by: *[Signature]*  
 Utility Quality Level "B" : Designating  
 Utility Quality Level "D" : Records Research

—FO—	FO	FO	FIBER OPTIC
—CTV—	CTV	CTV	CATV
—E—	E	E	ELECTRIC
—T—	T	T	TELEPHONE
—G—	G	G	GAS
—W—	W	W	WATER

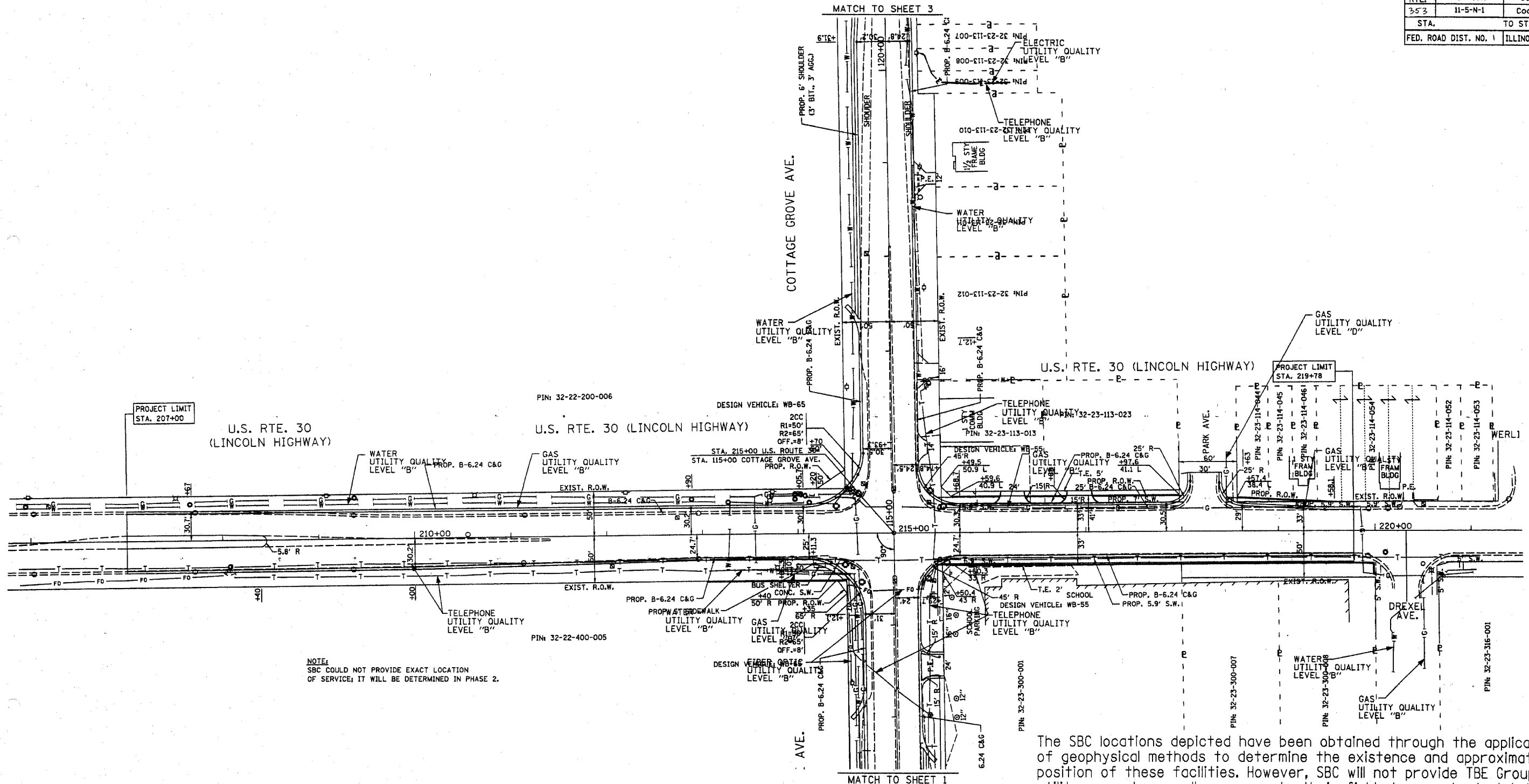
Utilities shown on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others. TBE's SUE field investigation was limited to the four test hole locations shown. Changes to utilities after this date may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

  
 205 W. WACKER DRIVE  
 SUITE 1020  
 CHICAGO, IL 60606  
 (312) 704-1970

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 SUE Investigation of Underground Utilities  
 US RT. 30 at Cottage Grove Avenue  
 in Chicago Heights-Ford Heights  
 Cook County  
 Section No. 11-5-N-1  
 Contract No. 62949  
 DRAWN BY : KLC  
 SCALE : 1" = 50'

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
353	11-5-N-1	Cook	79	30
STA. 207+00		TO STA. 219+78		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



NOTE:  
SBC COULD NOT PROVIDE EXACT LOCATION OF SERVICE; IT WILL BE DETERMINED IN PHASE 2.

The SBC locations depicted have been obtained through the application of geophysical methods to determine the existence and approximate horizontal position of these facilities. However, SBC will not provide TBE Group, Inc. with utility records nor allow access to their field closures (pedestals/manholes etc.), to help verify the locations of their existing underground facilities. Therefore, TBE is unable to verify the completeness of the SBC locations depicted in accordance with the CI/ASCE Standard 38-02.




**TBE GROUP, INC.**  
CIVIL ENGINEERING • TRANSPORTATION • ENVIRONMENTAL  
PLANNING • UTILITY ENGINEERING/LOCATING

IL09500271  
TBE SUE PAGE NO: 2 of 3  
Checked by: *[Signature]*  
Utility Quality Level "B" : Designating  
Utility Quality Level "D" : Records Research

FO	FO	FO	FIBER OPTIC
CTV	CTV	CTV	CATV
E	E	E	ELECTRIC
T	T	T	TELEPHONE
G	G	G	GAS
W	W	W	WATER

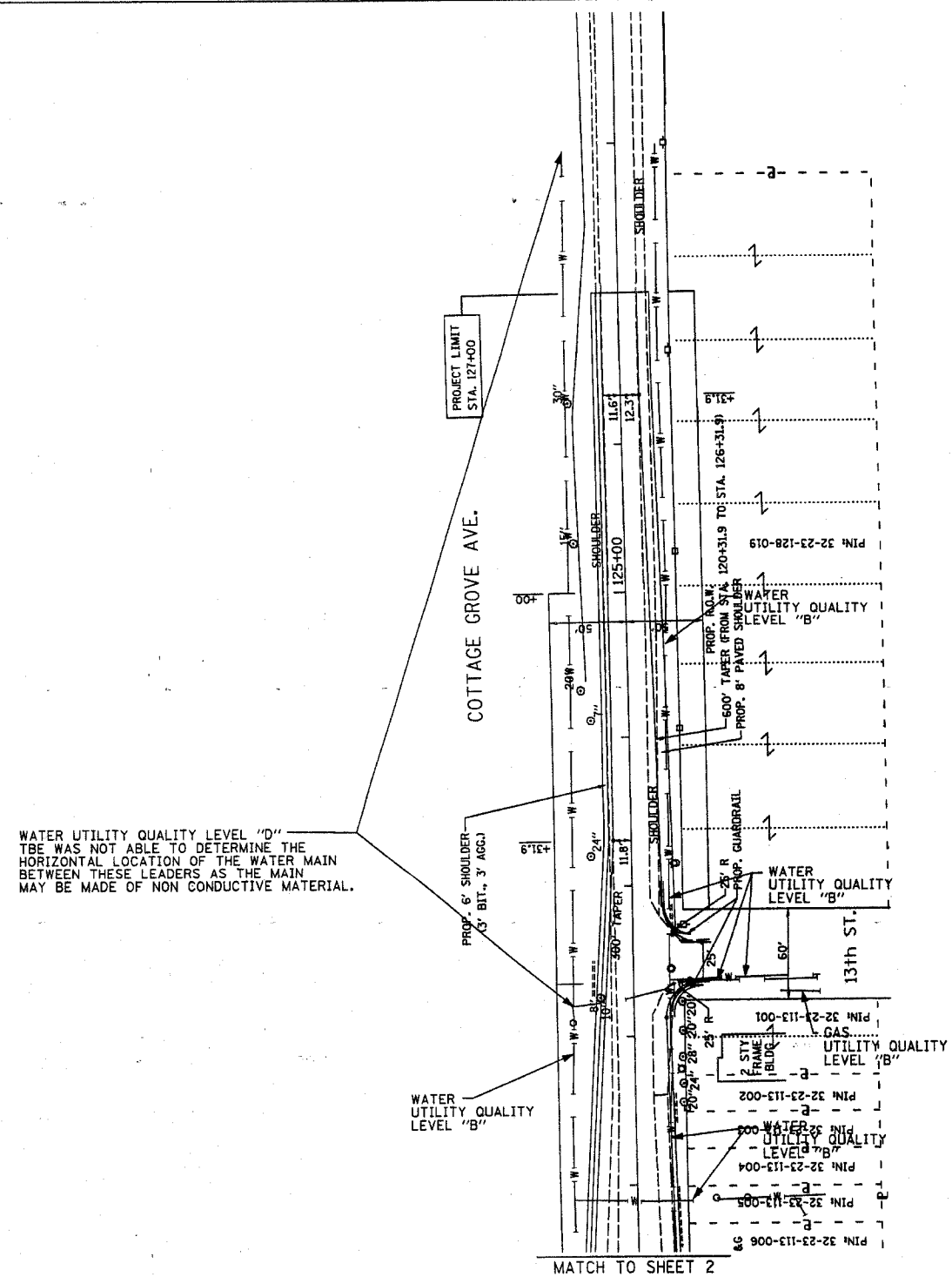
Utilities shown on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others. TBE's SUE field investigation was performed from 03/22/07 to 3/30/07. TBE's investigation was limited to the four test hole locations shown. Changes to utilities after this date may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

  
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SUITE 1020  
CHICAGO, IL 60606  
(312) 704-1970

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SUE Investigation of Underground Utilities  
US RT. 30 at Cottage Grove Avenue  
in Chicago Heights-Ford Heights  
Cook County  
Section No. 11-5-N-1  
Contract No. 62949  
DRAWN BY : KLC  
SCALE : 1" = 50'

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	Cook	79	31
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT



WATER UTILITY QUALITY LEVEL "D"  
TBE WAS NOT ABLE TO DETERMINE THE  
HORIZONTAL LOCATION OF THE WATER MAIN  
BETWEEN THESE LEADERS AS THE MAIN  
MAY BE MADE OF NON CONDUCTIVE MATERIAL.

The SBC locations depicted have been obtained through the application of geophysical methods to determine the existence and approximate horizontal position of these facilities. However, SBC will not provide TBE Group, Inc. with utility records nor allow access to their field closures (pedestals/manholes etc.), to help verify the locations of their existing underground facilities. Therefore, TBE is unable to verify the completeness of the SBC locations depicted in accordance with the CI/ASCE Standard 38-02.




**TBE GROUP, INC.**  
CIVIL ENGINEERING • TRANSPORTATION • ENVIRONMENTAL  
PLANNING • UTILITY ENGINEERING/LOCATING

IL09500271  
TBE SUE PAGE NO: 3 of 3  
Checked by: *[Signature]*  
Utility Quality Level "B" : Designating  
Utility Quality Level "D" : Records Research

—FO—	FO	FO	FIBER OPTIC
—CTV—	CTV	CTV	CATV
—E—	E	E	ELECTRIC
—T—	T	T	TELEPHONE
—G—	G	G	GAS
—W—	W	W	WATER

Utilities shown on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others. TBE's SUE field investigation was performed from 03/22/07 to 3/30/07. TBE's investigation was limited to the four test hole locations shown. Changes to utilities after this date may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

  
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SUITE 1020  
CHICAGO, IL 60606  
(312) 704-1970

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
SUE Investigation of Underground Utilities  
US RT. 30 at Cottage Grove Avenue  
in Chicago Heights-Ford Heights  
Cook County  
Section No. 11-5-N-1  
Contract No. 62949  
DRAWN BY : KLC  
SCALE : 1" = 50'

PART OF THE NORTHEAST & SOUTHEAST QUARTERS OF SECTION 22, & THE NORTHWEST & SOUTHWEST QUARTERS OF SECTION 23, TOWNSHIP 35 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, ILLINOIS.

GRID COORDINATES ON THE BRASS MONUMENT FOUND AT THE SOUTHWEST CORNER OF THE NORTHWEST QUARTER OF SECTION 22-35-14 HAVE A VALUE OF 1,763,541.307 NORTH - 1,185,953.234 EAST AND ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD '83, EAST ZONE COMBINED SCALE FACTOR = 0.9999 9473

STATION	OFFSET	NORTH	EAST
214+19.79	50.00' LT	1,763,590.298	1,185,872.407
214+49.71	70.00' LT	1,763,610.671	1,185,902.071
214+40.21	50.00' RT	1,763,490.562	1,185,894.077
214+50.27	65.00' RT	1,763,475.689	1,185,904.328
215+50.43	43.00' RT	1,763,498.619	1,186,003.956
215+58.35	35.00' RT	1,763,506.702	1,186,011.822
215+60.33	33.00' RT	1,763,508.715	1,186,013.788
217+99.37	35.00' RT	1,763,508.328	1,186,252.827
215+49.50	51.00' LT	1,763,592.639	1,186,002.385
215+54.55	46.00' LT	1,763,587.674	1,186,007.468
215+59.60	41.00' LT	1,763,582.708	1,186,012.551
217+98.64	46.00' LT	1,763,589.321	1,186,251.557
217+98.69	41.00' LT	1,763,584.322	1,186,251.641
218+58.72	38.50' LT	1,763,582.226	1,186,311.685
219+41.77	33.93' LT	1,763,578.222	1,186,394.763
219+41.78	33.00' LT	1,763,577.287	1,186,394.779

FOUND BRASS MONUMENT AT CORNER

SECTION 22 23 35 N 14 E

EAST LINE OF THE NORTHEAST QUARTER OF SECTION 22-35-14 & PROPOSED CONSTRUCTION

WEST LINE OF THE NORTHWEST QUARTER OF SECTION 23-35-14

WEST LINE OF BLOCK 5

COTTAGE GROVE AVENUE

EXISTING RIGHT OF WAY LINE

EXISTING RIGHT OF THE WEST 17' OF BLOCK 5

EXISTING RIGHT OF WAY LINE

STATION 214+00 TO STATION 214+49.71

SET PK

PARCEL NUMBER	OWNER	TOTAL HOLDING		REMAINDER	PREVIOUSLY DEDICATED	TEMPORARY EASEMENT	EASEMENT PURPOSE	PERMANENT TAX INDEX NUMBER	PROPERTY ACQUIRED BY
		ACRES	SQ. FEET						
0GB0001-A	MATERIAL SERVICE CORPORATION, A DELAWARE CORPORATION	147.568	300	0.007				32-22-200-006	
0GB0001-B			1.566		1.459				
0GB0002	FORD MOTOR COMPANY	139.147	5.728	133.419	5.727			32-22-400-005	
0GB0003	FORD HEIGHTS SCHOOL DISTRICT NO. 169	3.000	0.691	2.309	0.690			32-23-300-001	
0GB0004	801 CORP., AN ILLINOIS CORPORATION	0.760	2,043	0.047	0.713			32-23-113-013, 023	
0GB0004TE						0.028			
0GB0005	CHARLES E. SMALL, SR. AND LUCILLE SMALL	0.238	267	0.006	0.232			32-23-114-044, 045, 046	

F.A.P. SECTION COUNTY TOTAL SHEET  
353 11-5-N-1 COOK 79 32

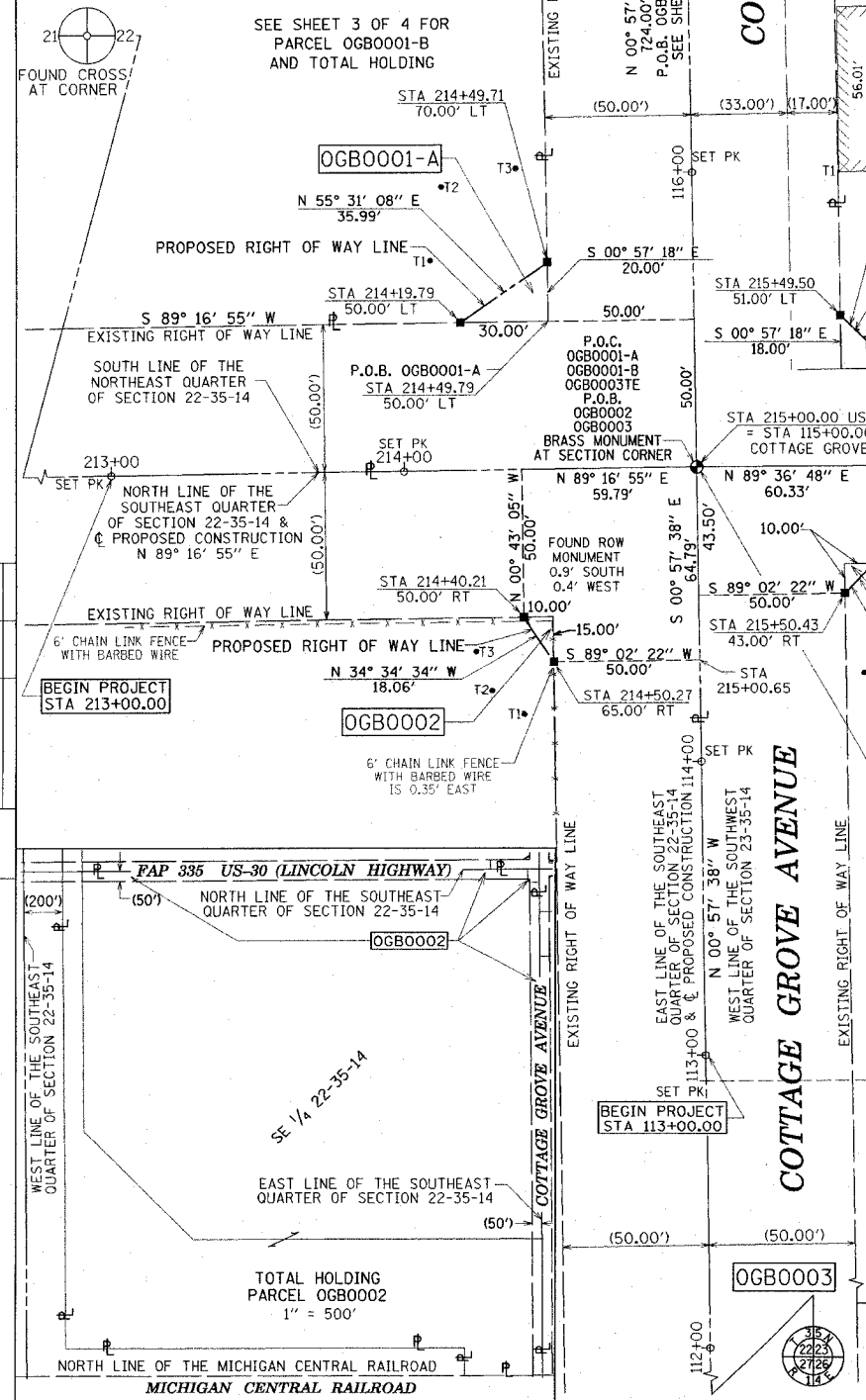
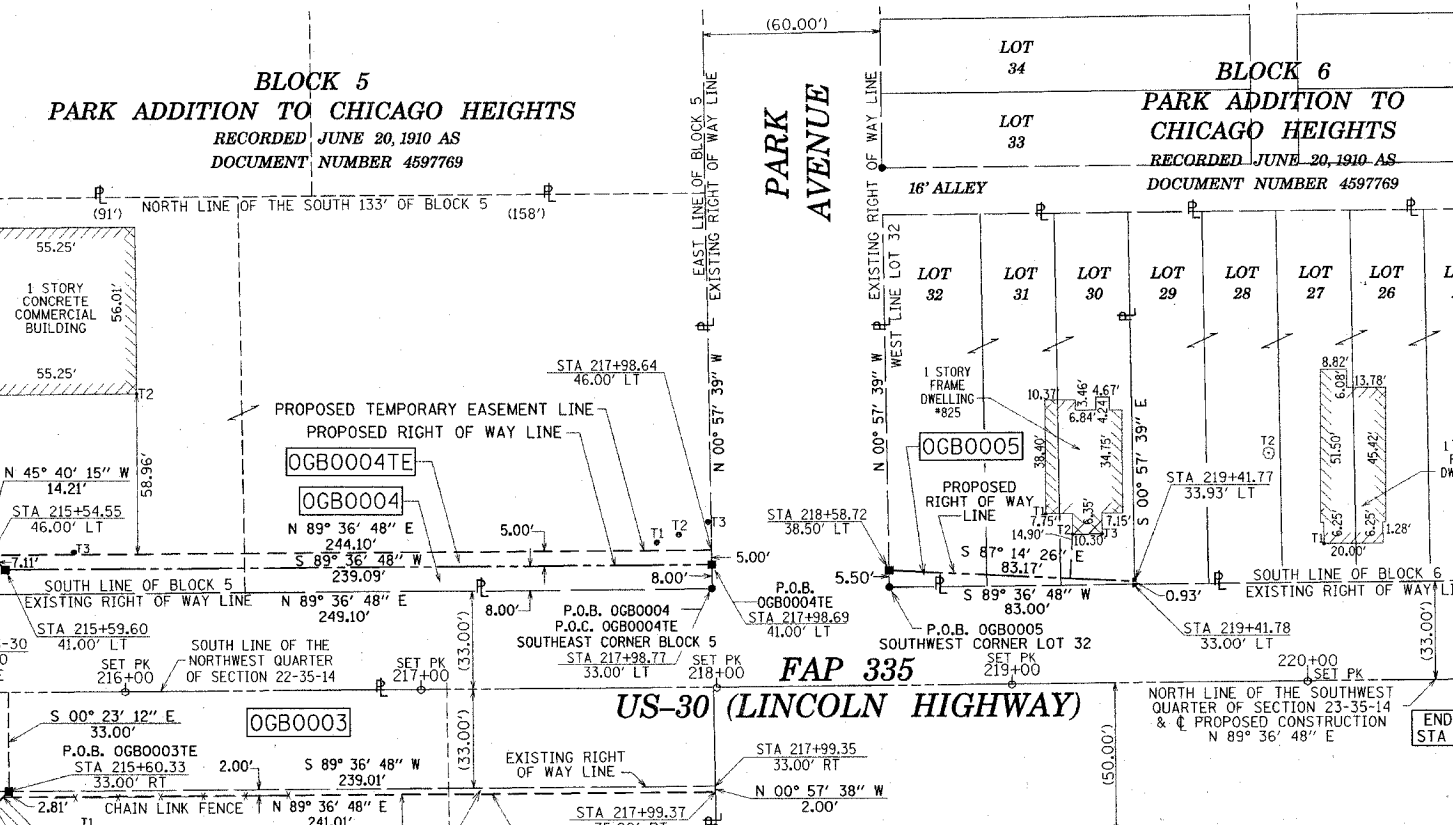
STATION 213+00 TO STATION 221+00  
FED. ROAD DIST. 1 ILLINOIS FED. AID PROJECT

### LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DATA
- EXISTING BUILDING
- BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD '83 EAST ZONE, ON THE WEST LINE OF SECTION 23-35-14, OF N 00° 57' 18" W
- IRON PIPE OR ROD FOUND
- SET 3/8" x 30" REBAR
- CUT CROSS FOUND OR SET
- FOUND PK NAIL
- SET PK NAIL
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 3/8" INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2
- T3
- STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

GRAPHIC SCALE - FEET

30 0 30



POINT	TIE	DISTANCE
214+19.79	T1	23.41'
50.00' LT	T2	46.77'
	T3	55.50'
214+49.71	T1	40.08'
70.00' LT	T2	44.54'
	T3	33.65'
214+40.21	T1	33.18'
50.00' RT	T2	27.27'
	T3	19.80'
214+50.27	T1	20.84'
65.00' RT	T2	23.33'
	T3	26.65'
215+50.43	T1	36.55'
43.00' RT	T2	25.10'
	T3	27.60'
215+60.33	T1	29.85'
33.00' RT	T2	29.95'
	T3	37.00'
215+49.50	T1	48.90'
41.00' LT	T2	73.65'
	T3	33.65'
215+59.60	T1	59.75'
41.00' LT	T2	74.12'
	T3	24.02'
217+98.69	T1	20.12'
41.00' LT	T2	15.05'
	T3	14.44'
218+58.72	T1	56.95'
38.50' LT	T2	63.02'
	T3	72.83'
219+41.77	T1	65.23'
33.93' LT	T2	62.40'
	T3	19.40'
219+41.78	T1	65.32'
33.00' LT	T2	63.03'
	T3	20.25'

STATE OF ILLINOIS } S.S.  
COUNTY OF COOK }

THIS IS TO CERTIFY THAT I, WILLIAM J. FLEMING, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 22 AND 23, TOWNSHIP 35 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY; THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

DATED AT CHICAGO, ILLINOIS THIS 1ST DAY OF JUNE, A.D. 2007.

**SCANNED**

ILLINOIS PROFESSIONAL LAND SURVEYOR 35-3226 EXPIRES 11/30/2008

GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.  
ENGINEERS & LAND SURVEYORS  
8501 W. Higgins Road, Suite 280  
Chicago, Illinois 60631  
(773) 399-0112

PTB 138/001 WO\*5  
GSAI PROJECT 20063022.05

RECEIVED  
JUN 01 2007  
PLATS & LEGALS

REVISION	DATE	DESCRIPTION

**PLAT OF HIGHWAYS**  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
FAP 335 US-30 (LINCOLN HIGHWAY)  
AT COTTAGE GROVE AVENUE

SECTION COOK COUNTY  
PROJECT JOB NO. R-90-005-05  
STATION 213+00.00 TO STATION 221+00.00  
SCALE: 1" = 30' SHEET 2 OF 4

BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAMBURG, ILLINOIS 60196-1096  
SHEET 1 OF 15 COVER SHEET AND IS NOT RECORDED

DATE	BY	PLAT	BOOK	NO.

MADE BY DATE  
CHECKED BY DATE  
P.L.T. BY DATE  
BOOK #



PART OF THE NORTHEAST QUARTER OF SECTION 22, AND THE NORTHWEST QUARTER OF SECTION 23, TOWNSHIP 35 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDING ACRES	PART TAKEN ACRES	REMAINDER ACRES	PREVIOUSLY DEDICATED ACRES	EASEMENT ACRES	EASEMENT PURPOSE	PERMANENT TAX INDEX NUMBER	PROPERTY ACQUIRED BY
0GB0001-A	MATERIAL SERVICE CORPORATION, A DELAWARE CORPORATION	147.568	300 SF 0.007	145.995	1.459			32-22-200-006	
0GB0001-B			1.566						
0BG0007	SOUTHSIDE DEVELOPERS, LLC, AN ILLINOIS LIMITED LIABILITY COMPANY	3.023	0.163	2.860				32-23-128-019	

GRID COORDINATES ON THE BRASS MONUMENT FOUND AT THE SOUTHWEST CORNER OF THE NORTHWEST QUARTER OF SECTION 22-35-14 HAVE A VALUE OF 1,763,541.307 NORTH - 1,185,953.234 EAST AND ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD '83, EAST ZONE COMBINED SCALE FACTOR = 0.9999 9473

STATION	OFFSET	NORTH	EAST
122+24.21	50.00' LT	1,764,264.576	1,185,891.172
122+83.41	50.00' RT	1,764,325.442	1,185,990.171
125+00.00	50.00' LT	1,764,540.330	1,185,886.576
125+00.00	33.00' LT	1,764,540.613	1,185,903.574
127+00.00	50.00' RT	1,764,741.967	1,185,983.229
127+00.00	33.00' RT	1,764,741.684	1,185,966.231

POINT	TIE	DISTANCE
122+24.21	T1	24.27'
50.00' LT	T2	17.20'
	T3	26.50'
122+83.41	T1	11.22'
50.00' RT	T2	14.64'
	T3	9.88'
125+00.00	T1	7.78'
50.00' LT	T2	6.65'
	T3	22.57'
125+00.00	T1	24.62'
33.00' LT	T2	19.30'
	T3	21.40'
127+00.00	T1	13.63'
33.00' RT	T2	21.24'
	T3	25.50'
127+00.00	T1	16.84'
50.00' RT	T2	12.50'
	T3	9.10'

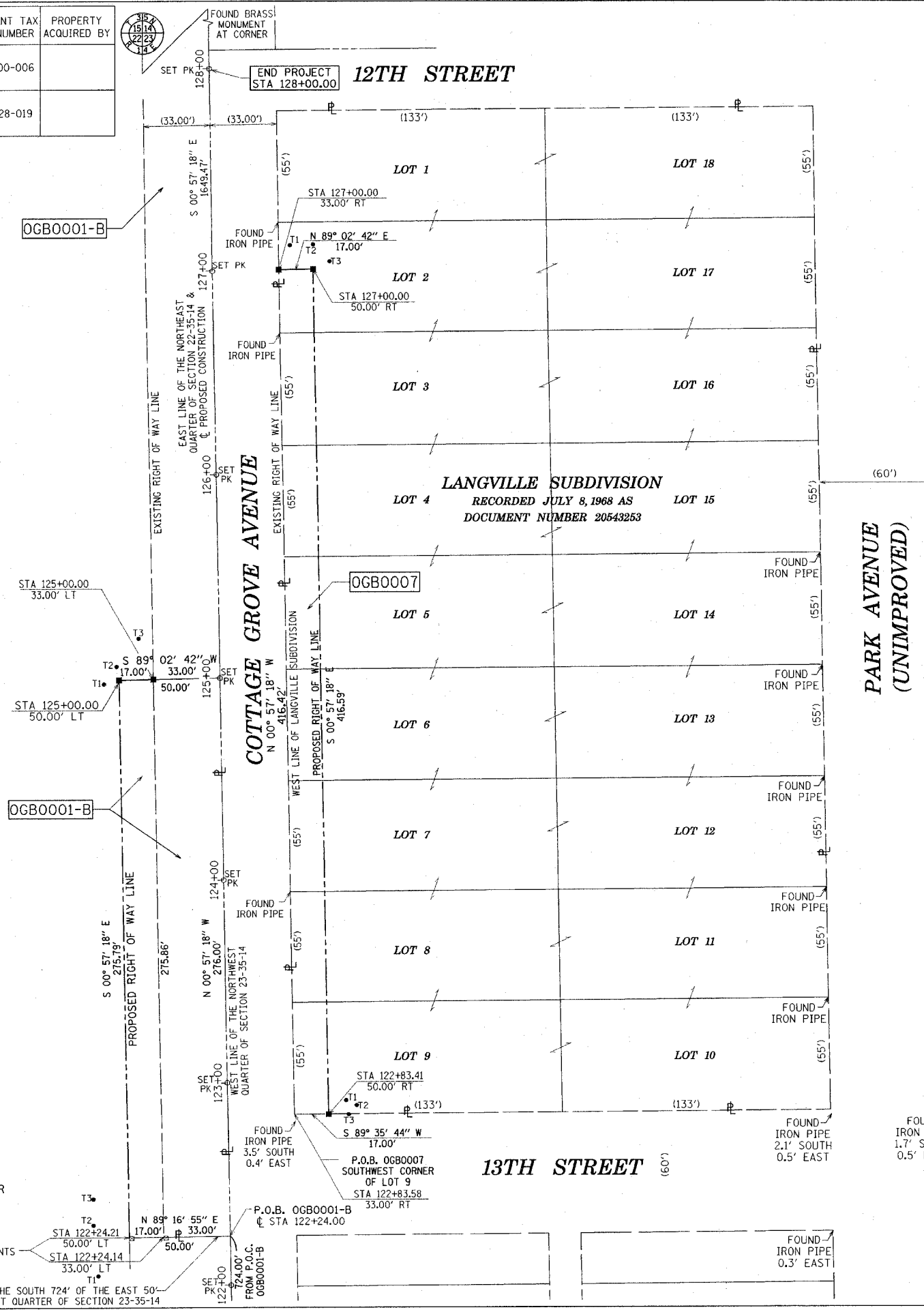
F.A.P.	SECTION	COUNTY	TOTAL SHEET	SHEET NO.
353	11-5-N-1	COOK	79	33
STATION 213+00 TO STATION 221+00				
FED. ROAD DIST. 1		ILLINOIS	FED. AID PROJECT	

### LEGEND

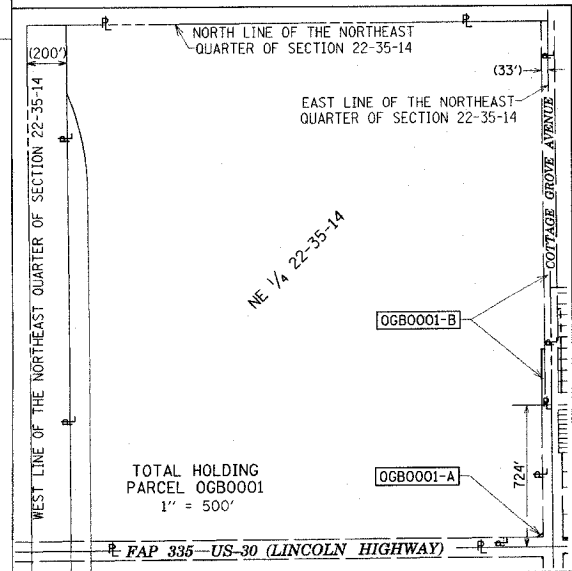
- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DATA
- EXISTING BUILDING
- IRON PIPE OR ROD FOUND
- SET 5/8" x 30" REBAR
- CUT CROSS FOUND OR SET
- FOUND PK NAIL
- SET PK NAIL
- T1, T2, T3: THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8" IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS } S.S.  
COUNTY OF COOK }

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD '83 EAST ZONE, ON THE WEST LINE OF THE NORTHWEST QUARTER OF SECTION 23-35-14 OF N 00° 57' 18" W



BY	DATE



THIS IS TO CERTIFY THAT I, WILLIAM J. FLEMING, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 22 AND 23, TOWNSHIP 35 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY; THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

DATED AT CHICAGO, ILLINOIS THIS 1ST DAY OF JUNE, A.D. 2007.

ILLINOIS PROFESSIONAL LAND SURVEYOR 35-3226  
EXPIRES 11/30/2008

SCANNED

RECEIVED  
JUN 01 2007  
PLATS & LEGALS

GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.  
ENGINEERS & LAND SURVEYORS  
8501 N. Higgins Road, Suite 280  
Chicago, Illinois 60631  
(773) 399-0112

PTB 138/001 W0\*5  
GASAI PROJECT 20063022.05

REVISION	
DATE	DESCRIPTION

**PLAT OF HIGHWAYS**  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
FAP 335 US-30 (LINCOLN HIGHWAY)  
AT COTTAGE GROVE AVENUE

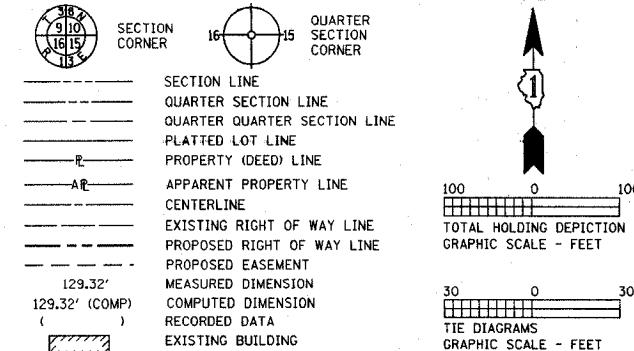
SECTION COOK COUNTY  
PROJECT JOB NO. R-90-005-05  
STATION 122+00.00 TO STATION 128+00.00  
SCALE: 1" = 30'  
SHEET 3 OF 4

BUREAU OF LAND ACQUISITION  
201 WEST CENTER COURT  
SCHAUMBURG, ILLINOIS 60196-1096

PART OF THE NORTHEAST & SOUTHEAST QUARTERS OF SECTION 22, & THE NORTHWEST & SOUTHWEST QUARTERS OF SECTION 23, TOWNSHIP 35 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, ILLINOIS.

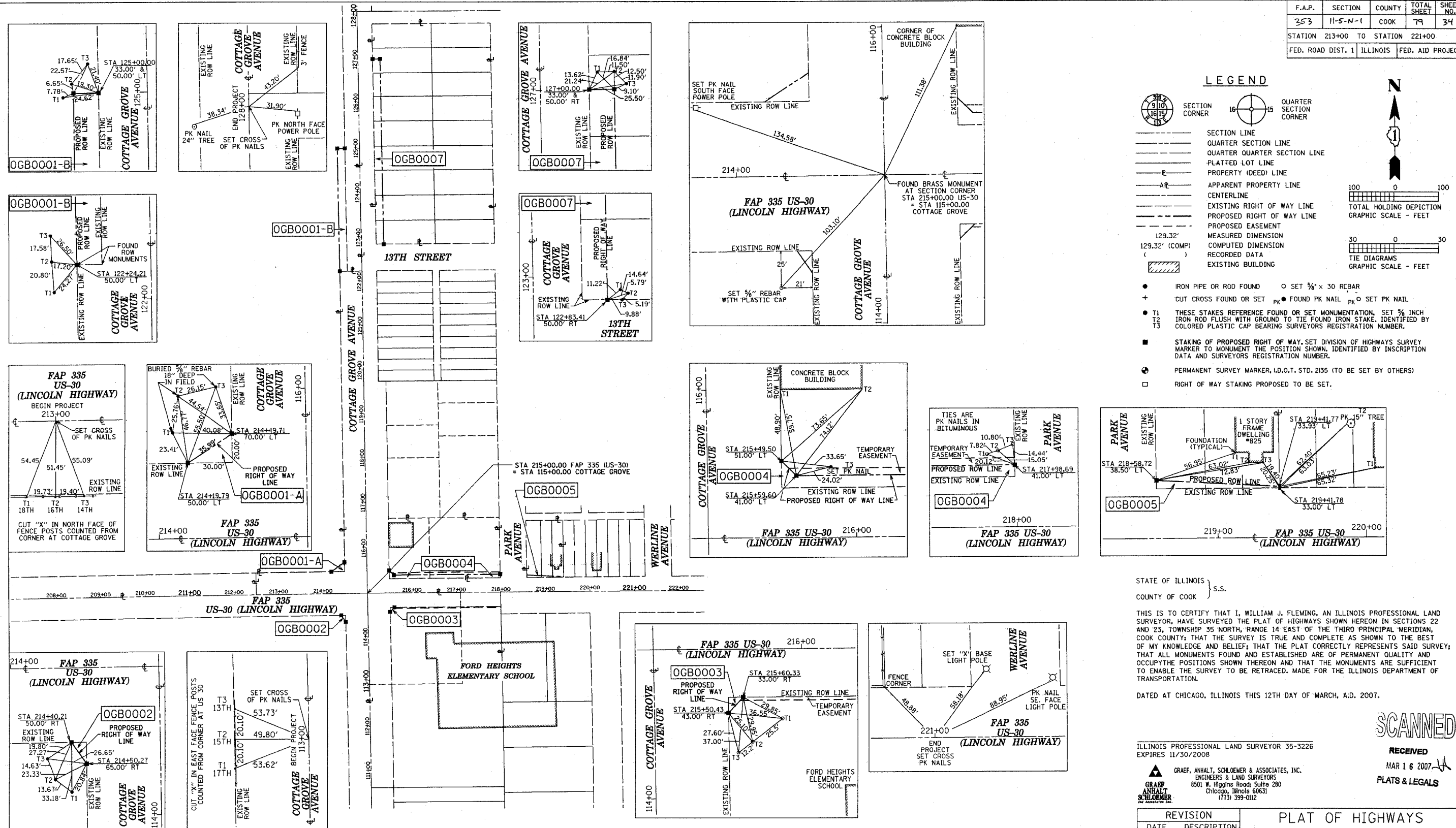
F.A.P.	SECTION	COUNTY	TOTAL SHEET	SHEET NO.
353	11-5-N-1	COOK	79	34
STATION 213+00 TO STATION 221+00				
FED. ROAD DIST. 1 ILLINOIS FED. AID PROJECT				

LEGEND



- IRON PIPE OR ROD FOUND ○ SET 5/8" x 30 REBAR
- + CUT CROSS FOUND OR SET PK ● FOUND PK NAIL PK ○ SET PK NAIL
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8" INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MONUMENT TO MONUMENT POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- ⊙ PERMANENT SURVEY MARKER, I.D.O.T. STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

BY	DATE
MADE	FILED
R.O.W. PLAT	BOOK



STATE OF ILLINOIS } S.S.  
 COUNTY OF COOK }  
 THIS IS TO CERTIFY THAT I, WILLIAM J. FLEMING, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 22 AND 23, TOWNSHIP 35 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY; THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

DATED AT CHICAGO, ILLINOIS THIS 12TH DAY OF MARCH, A.D. 2007.

ILLINOIS PROFESSIONAL LAND SURVEYOR 35-3226  
 EXPIRES 11/30/2008

GRAEF, ANHALT, SCHLOEMER & ASSOCIATES, INC.  
 ENGINEERS & LAND SURVEYORS  
 8501 W. Higgins Road, Suite 280  
 Chicago, Illinois 60631  
 (773) 399-0112

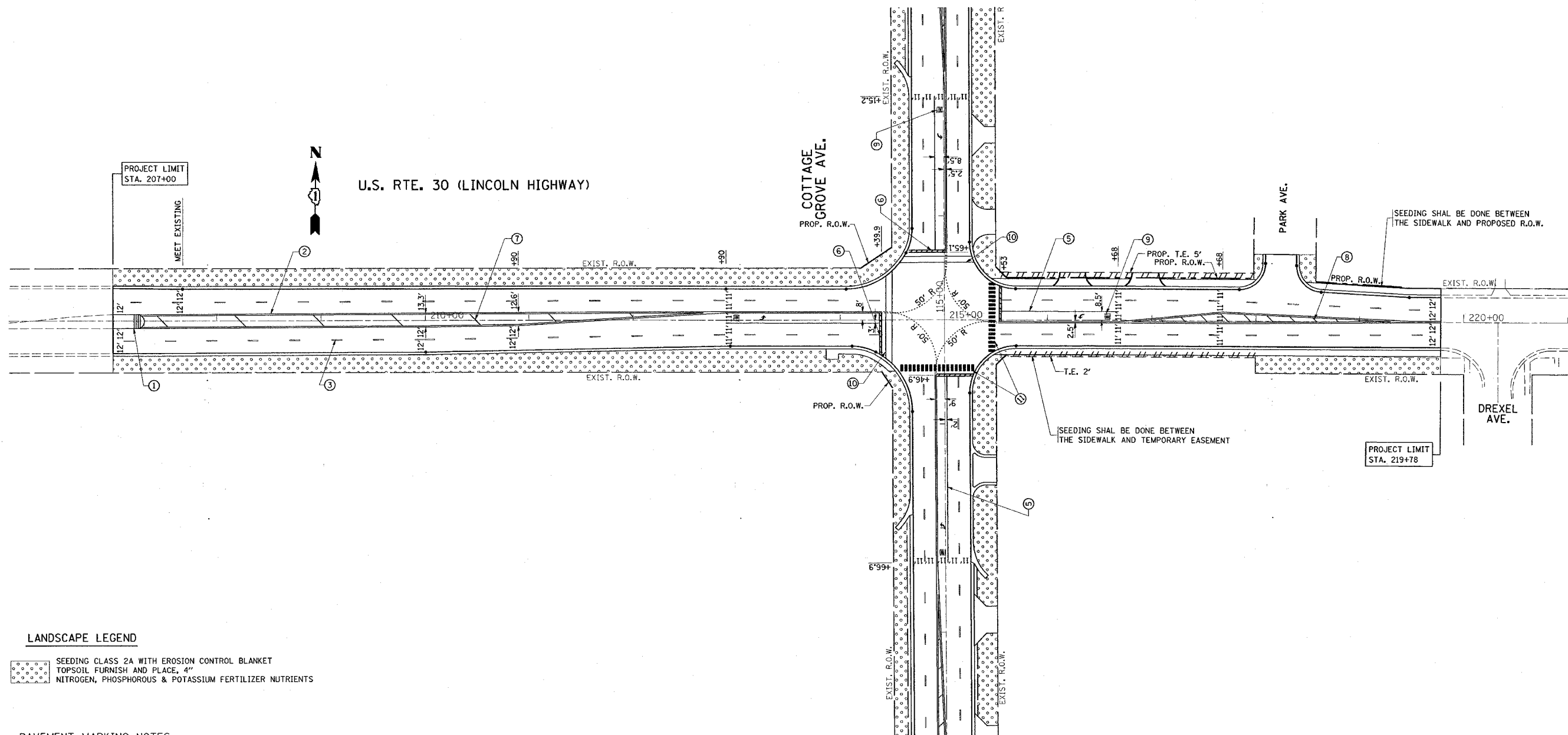
REVISION	
DATE	DESCRIPTION

PLAT OF HIGHWAYS  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 FAP 335 US-30 (LINCOLN HIGHWAY)  
 AT COTTAGE GROVE AVENUE

SECTION COOK COUNTY  
 PROJECT JOB NO. R-90-005-05  
 STATION 213+00.00 TO STATION 221+00.00  
 TOTAL HOLDING SCALE: 1" = 100'  
 TIE DIAGRAM SCALE: 1" = 30' SHEET 4 OF 4

BUREAU OF LAND ACQUISITION  
 201 WEST CENTER COURT  
 SCHLAUMBERG, ILLINOIS 60196-1096

F.A. #	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	35
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



**LANDSCAPE LEGEND**

- SEEDING CLASS 2A WITH EROSION CONTROL BLANKET  
TOPSOIL FURNISH AND PLACE, 4"  
NITROGEN, PHOSPHOROUS & POTASSIUM FERTILIZER NUTRIENTS

**PAVEMENT MARKING NOTES:**

- ① PROPOSED 4" SOLID YELLOW LINE (AROUND MEDIAN)(TYP.)
- ② PROPOSED 4" DOUBLE YELLOW, 2 LINES @ 11" C-C (TYP.)
- ③ PROPOSED 4" WHITE SKIP-DASH, (10' DASH, 30' SKIP)(TYP.)
- ④ PROPOSED 4" WHITE EDGE LINE
- ⑤ PROPOSED 6" WHITE TURN LINE (TYP.)
- ⑥ PROPOSED 24" WHITE STOP BAR (TYP.)
- ⑦ PROPOSED 12" YELLOW DIAGONALS, (45° @ 75' C-C)
- ⑧ PROPOSED 12" YELLOW DIAGONALS, (45° @ 20' C-C)
- ⑨ PROPOSED WHITE PAVEMENT MARKINGS LETTERS AND SYMBOLS (TYP.)
- ⑩ PROPOSED 6" WHITE CROSSWALK, (2 LINES @ 6' C-C)
- ⑪ PROPOSED 12" WHITE CROSSWALK, (6' LINE @ 3' C-C)

NOTE: RAISED REFLECTIVE PAVEMENT MARKERS  
TO BE INSTALLED ON U.S. 30 AND  
COTTAGE GROVE AVE.

REVISIONS	
NAME	DATE

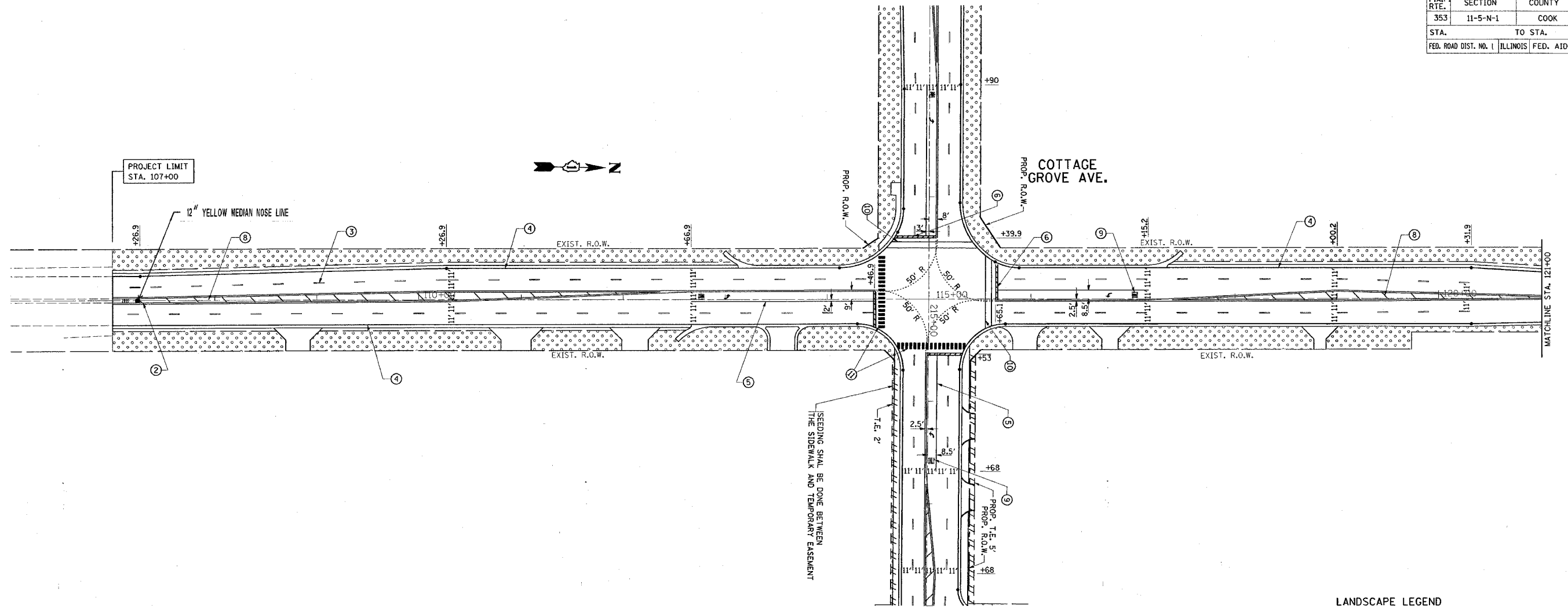
ILLINOIS DEPARTMENT OF TRANSPORTATION  
U.S. RTE. 30 (LINCOLN HIGHWAY)  
@ COTTAGE GROVE AVENUE  
PAVEMENT MARKING &  
LANDSCAPING PLAN

SCALE: 1" = 50'  
DATE: 12/13/2007

DRAWN BY  
CHECKED BY

REV. 1

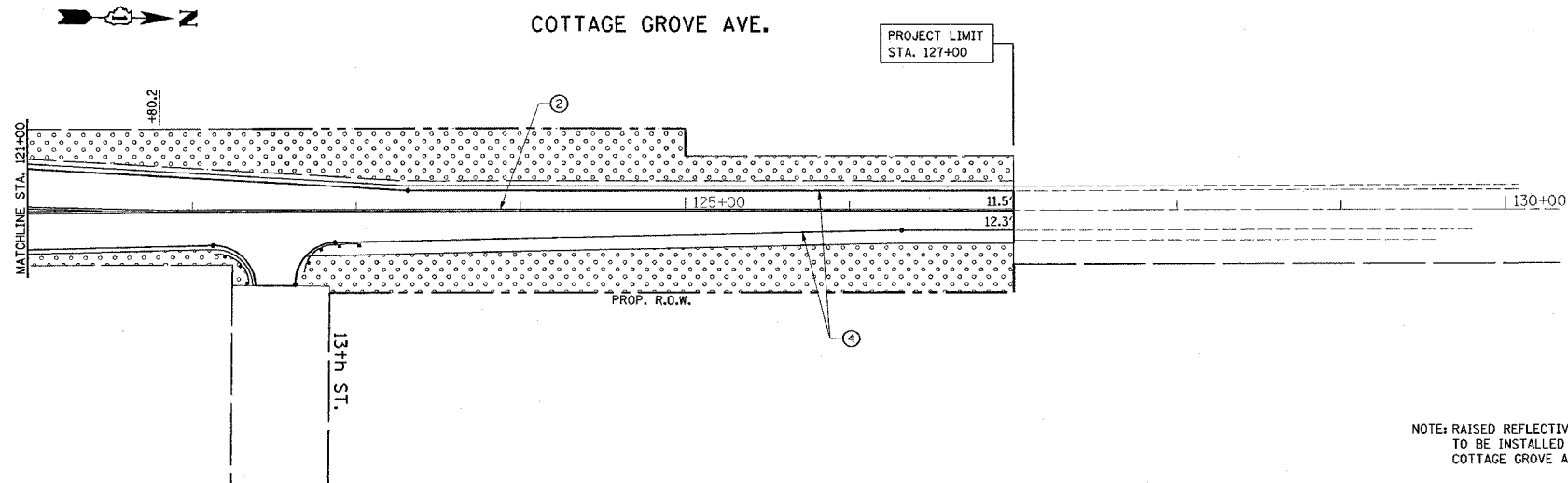
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	36
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



SEEDING SHALL BE DONE BETWEEN THE SIDEWALK AND TEMPORARY EASEMENT

LANDSCAPE LEGEND

- SEEDING CLASS 2A WITH EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 4"
- NITROGEN, PHOSPHOROUS & POTASSIUM FERTILIZER NUTRIENTS



PAVEMENT MARKING NOTES:

- ① PROPOSED 4" SOLID YELLOW LINE (AROUND MEDIAN)(TYP.)
- ② PROPOSED 4" DOUBLE YELLOW, 2 LINES @ 11" C-C (TYP.)
- ③ PROPOSED 4" WHITE SKIP-DASH, (10' DASH, 30' SKIP)(TYP.)
- ④ PROPOSED 4" WHITE EDGE LINE
- ⑤ PROPOSED 6" WHITE TURN LINE (TYP.)
- ⑥ PROPOSED 24" WHITE STOP BAR (TYP.)
- ⑦ PROPOSED 12" YELLOW DIAGONALS, (45° @ 75' C-C)
- ⑧ PROPOSED 12" YELLOW DIAGONALS, (45° @ 20' C-C)
- ⑨ PROPOSED WHITE PAVEMENT MARKINGS LETTERS AND SYMBOLS (TYP.)
- ⑩ PROPOSED 6" WHITE CROSSWALK, (2 LINES @ 6' C-C)
- ⑪ PROPOSED 12" WHITE CROSSWALK, (6' LINE @ 3' C-C)

NOTE: RAISED REFLECTIVE PAVEMENT MARKERS TO BE INSTALLED ON U.S. 30 AND COTTAGE GROVE AVE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**COTTAGE GROVE AVENUE**  
 @ U.S. RTE. 30 (LINCOLN HIGHWAY)  
 PAVEMENT MARKING &  
 LANDSCAPING PLAN

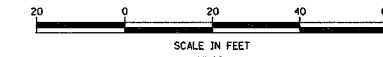
SCALE: 1" = 50'  
 DATE: 12/13/2007

DRAWN BY  
 CHECKED BY

Rev. 1

PLOT DATE = 12/13/2007  
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 PLOT SCALE = 50.0000 / IN.  
 USER NAME = jiriched

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	37
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 62949				

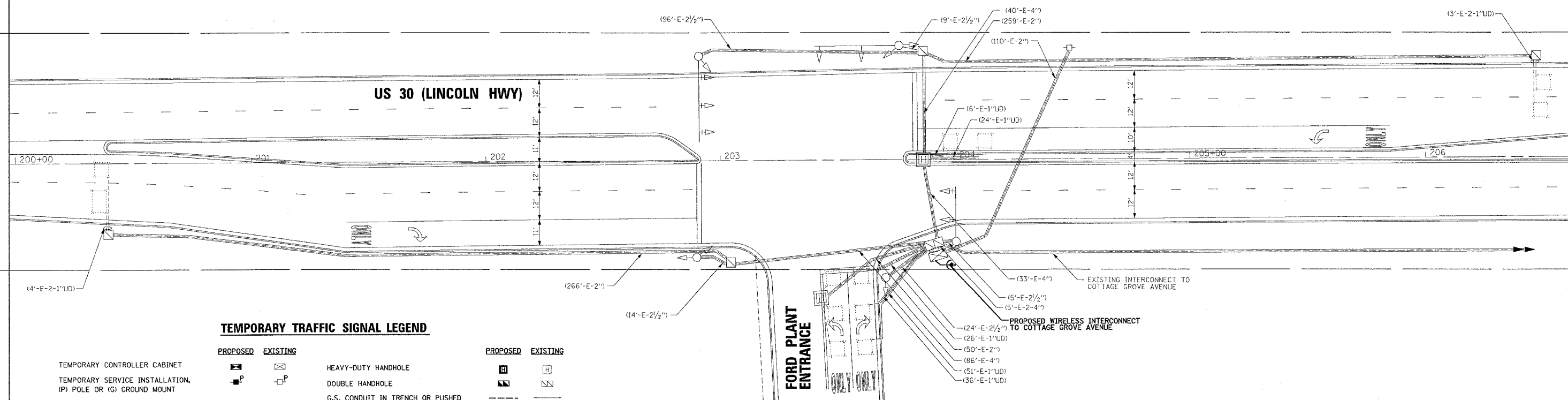


**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL (S) SHALL BE FURNISH BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL CONTROLLERS USED FOR TEMPORARY SIGNALS SHALL MEET OR EXCEED THE REQUIREMENTS OF SECTION T682 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS" WITH REGARDS TO INTERNAL TIME BASE COORDINATION AND PREEMPTION.
4. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
5. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
6. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.

NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE ADJACENT SYSTEM.

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



**TEMPORARY TRAFFIC SIGNAL LEGEND**

	PROPOSED	EXISTING		PROPOSED	EXISTING
TEMPORARY CONTROLLER CABINET			HEAVY-DUTY HANDHOLE		
TEMPORARY SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT			DOUBLE HANDHOLE		
TEMPORARY TRAFFIC SIGNAL HEAD			G.S. CONDUIT IN TRENCH OR PUSHED		
SPAN WIRE MOUNTED ORIGINAL LOCATION			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
TEMPORARY TRAFFIC SIGNAL HEAD			COMMON TRENCH	CT	
SPAN WIRE MOUNTED SECONDARY LOCATION			UNIT DUCT	UD	
TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED			TEMPORARY PEDESTRIAN PUSHBUTTON DETECTOR		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM			DETECTOR LOOP, TYPE I		
EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED			PERFORMED DETECTOR LOOP		
STEEL MAST ARM ASSEMBLY AND POLE			MICROWAVE VEHICLE SENSOR		
ALUMINUM MAST ARM ASSEMBLY AND POLE			VIDEO DETECTOR		
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE			CLOSED CIRCUIT TV		
EXISTING STREET LIGHT, FOUNDATION AND LUMINAIRE TO REMAIN			EMERGENCY VEHICLE SYSTEM DETECTOR		
HANDHOLE			CONFIRMATION BEACON		
VIDEO DETECTION ZONE			REMOVAL		
WIRELESS INTERCONNECT (ANTENNA)			RELOCATE		

REVISIONS	
NAME	DATE

**SETON ENGINEERING**  
SERVICE CORPORATION  
CIVIL ENGINEERS

19 S. BOTHWELL STREET  
PALATINE, ILLINOIS 60067  
VOICE: 847-776-7200 FAX: 847-776-7239

SETON PROJECT # 200200-238

ILLINOIS DEPARTMENT OF TRANSPORTATION

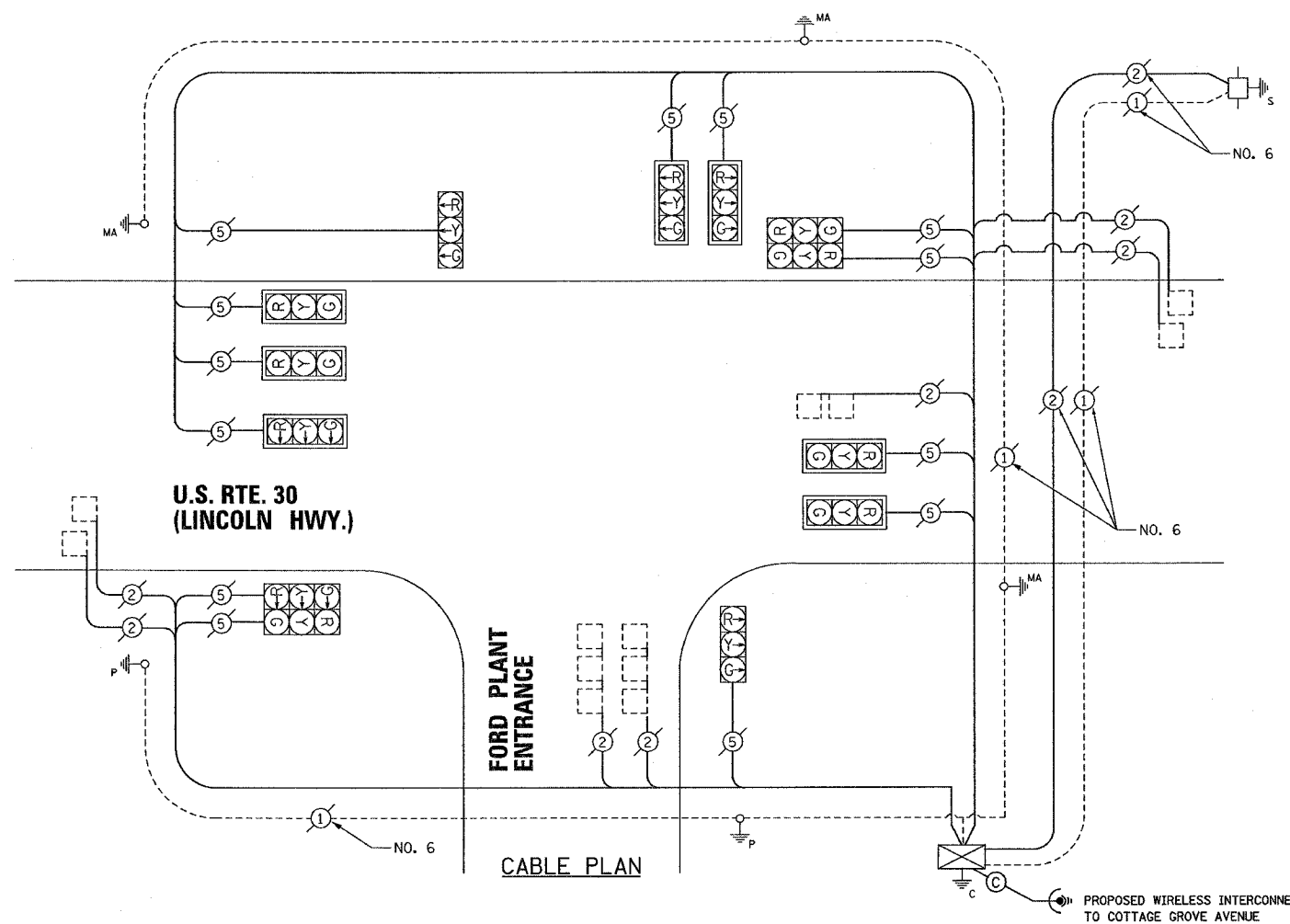
**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN**

US ROUTE 30 (LINCOLN HIGHWAY) AT FORD PLANT ENTRANCE FORD HEIGHTS, ILLINOIS

SCALE: 1"=20'

DATE 08-01-2007

DRAWN BY BR  
DESIGNED BY VO  
CHECKED BY JAC



### SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1

### TEMPORARY CABLE DIAGRAM LEGEND

	PROPOSED	EXISTING
TEMPORARY CONTROLLER CABINET		
TEMPORARY SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT		
TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300 mm)		
12" (300mm) PEDESTRIAN SIGNAL SECTION		
ELECTRIC CABLE IN CONDUIT, NO. 14, UNLESS OTHERWISE NOTED, NUMBER OF CONDUCTORS AS NOTED		
PEDESTRIAN PUSHBUTTON DETECTOR		
VEHICLE DETECTOR, INDUCTION LOOP		
MICROWAVE VEHICLE SENSOR		
VIDEO DETECTOR		
CLOSED CIRCUIT TV		
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIRMATION BEACON		
WIRELESS INTERCONNECT (ANTENNA)		

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE	X % OPERATION		
		INCAND.	LED		
SIGNAL (RED)	13	135	17	0.50	111.0
(YELLOW)	13	135	25	0.25	81.0
(GREEN)	13	135	15	0.25	49.0
ARROW	18	135	12	0.10	21.6
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN	-	84		0.05	-
FLASHER	-	-	-	0.50	-
TOTAL =					362.60
ENERGY COSTS - BILLED TO: ILLINOIS DEPT. OF TRANSPORTATION (ADDRESS) 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096					
ENERGY SUPPLY - CONTACT: JERRY NISSEN (PHONE) (708) 235-2340 COMPANY: COMMONWEALTH EDISON					

NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE ADJACENT SYSTEM.

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

**SETON ENGINEERING**  
SERVICE CORPORATION  
CIVIL ENGINEERS

19 S. BOWWELL STREET  
PALATINE, ILLINOIS 60067  
VOICE: 847-776-7200 FAX: 847-776-7239

SETON PROJECT # 2005001-228

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**TEMPORARY CABLE PLAN**

US ROUTE 30 (LINCOLN HIGHWAY) AT  
FORD PLANT ENTRANCE  
FORD HEIGHTS, ILLINOIS

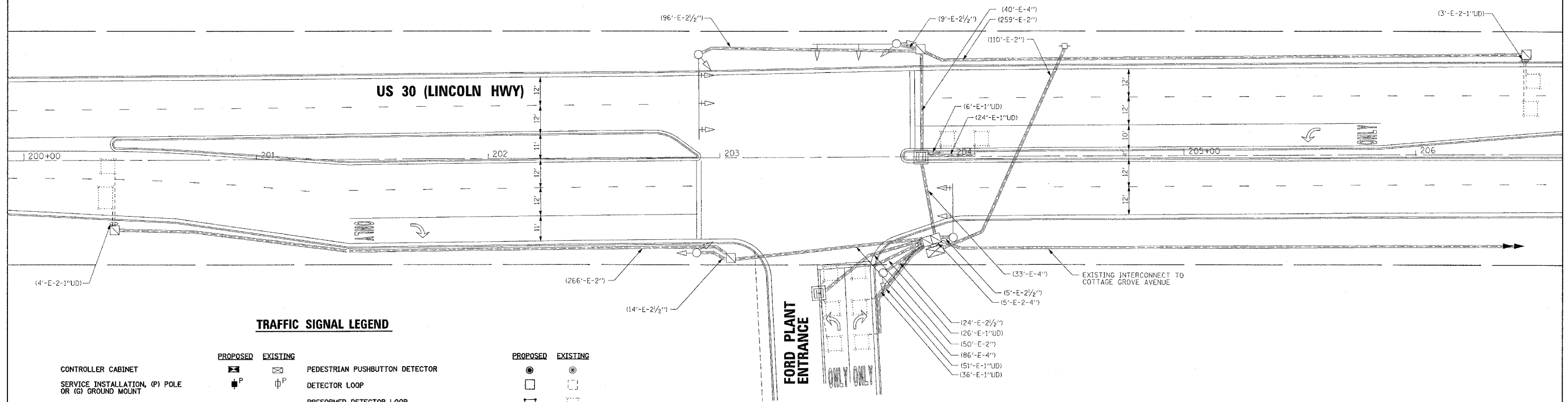
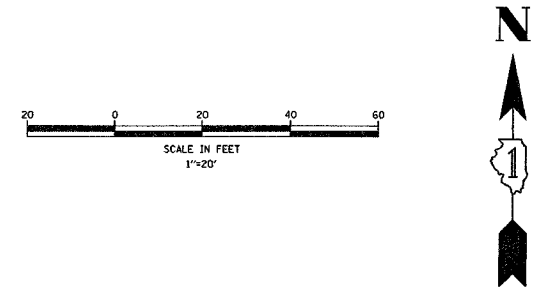
SCALE: N.T.S.  
DATE: 08-01-2007

DRAWN BY: BR  
DESIGNED BY: VO  
CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	39
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT
CONTRACT NO. 62949				

NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE ADJACENT SYSTEM.

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



**TRAFFIC SIGNAL LEGEND**

	PROPOSED	EXISTING		PROPOSED	EXISTING
CONTROLLER CABINET			PEDESTRIAN PUSHBUTTON DETECTOR		
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT			DETECTOR LOOP		
SIGNAL HEAD			PREFORMED DETECTOR LOOP		
SIGNAL HEAD WITH BACKPLATE			JUNCTION BOX		
SIGNAL HEAD, PEDESTRIAN			EMERGENCY VEHICLE SYSTEM DETECTOR		
SIGNAL POST			CONFIRMATION BEACON		
STEEL MAST ARM ASSEMBLY AND POLE			SIGNAL HEAD OPTICALLY PROGRAMMED		
ALUMINUM MAST ARM ASSEMBLY AND POLE			CONDUIT SPLICE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			WOOD POLE		
COMMON TRENCH	CT		RAILROAD CONTROL CABINET		
UNIT DUCT	UD		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
HANDHOLE			ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		
HEAVY DUTY HANDHOLE			TELEPHONE CONNECTION		
DOUBLE HANDHOLE			MICROWAVE VEHICLE SENSOR		
G.S. CONDUIT IN TRENCH OR PUSHED			VIDEO DETECTOR		
UNINTERRUPTABLE POWER SUPPLY			CLOSED CIRCUIT TV		

**SETON ENGINEERING**  
SERVICE CORPORATION  
CIVIL ENGINEERS

19 S. BOTHWELL STREET  
PALATINE, ILLINOIS 60067  
VOICE: 847-776-7200 FAX: 847-776-7239

NETON PROJECT # 702200-239

REVISIONS	
NAME	DATE

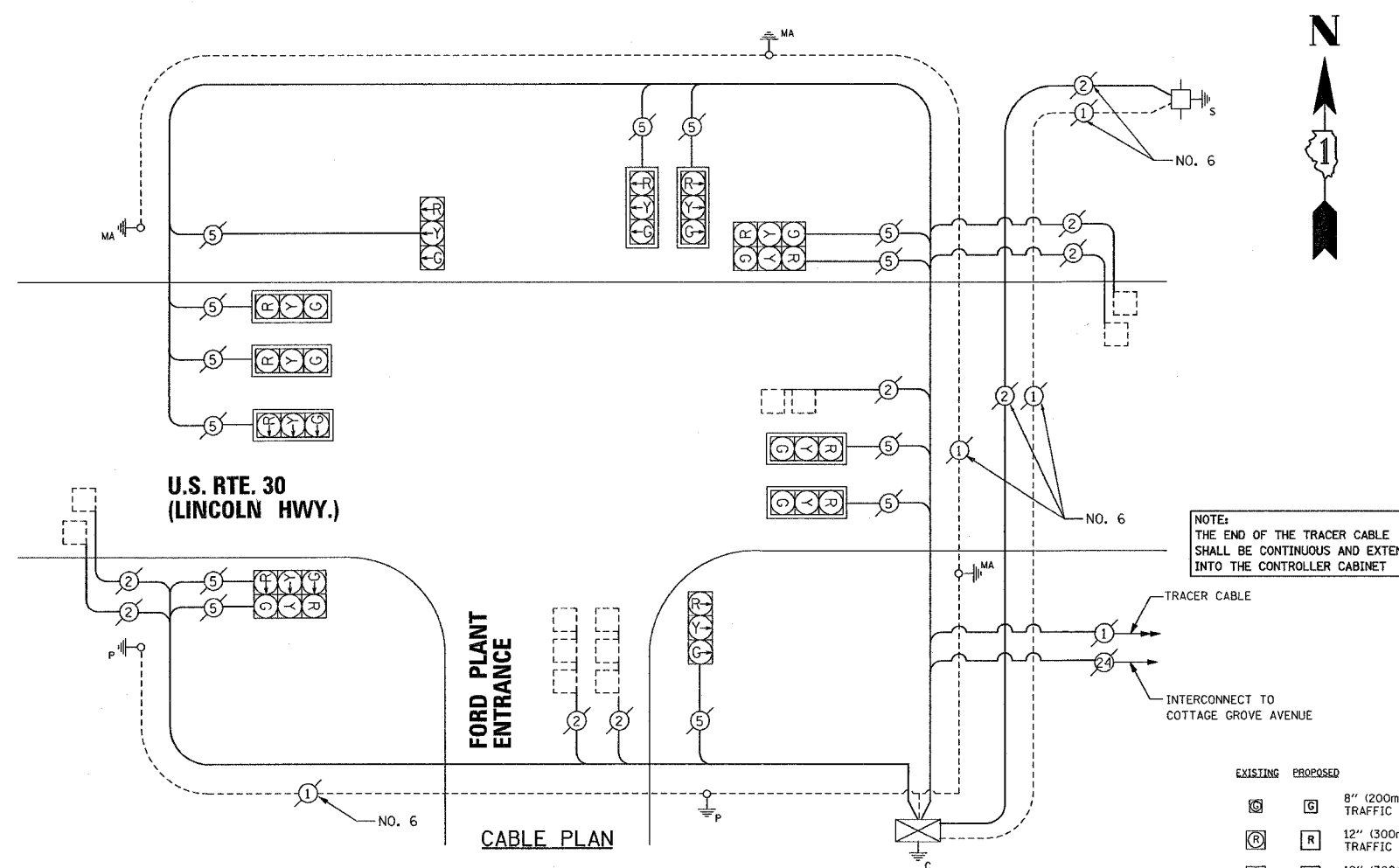
ILLINOIS DEPARTMENT OF TRANSPORTATION

**TRAFFIC SIGNAL  
INSTALLATION PLAN**

US ROUTE 30 (LINCOLN HIGHWAY) AT  
FORD PLANT ENTRANCE  
FORD HEIGHTS, ILLINOIS

SCALE: 1"=20'  
DATE: 08-01-2007

DRAWN BY BR  
DESIGNED BY VO  
CHECKED BY JAC



**CABLE PLAN LEGEND**

EXISTING	PROPOSED	DESCRIPTION
		8" (200mm) TRAFFIC SIGNAL SECTION
		12" (300mm) TRAFFIC SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT
		TELEPHONE CONNECTION
		DETECTOR LOOP
		PREFORMED DETECTOR LOOP
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
		DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
		UNINTERRUPTIBLE POWER SUPPLY
		GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
		FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F
		SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
		RAILROAD CONTROL CABINET
		ILLUMINATED SIGN "NO LEFT TURN"
		ILLUMINATED SIGN "NO RIGHT TURN"
		GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C).
		GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
		GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		MICROWAVE VEHICLE SENSOR
		VIDEO DETECTOR
		CLOSED CIRCUIT TV

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	X % OPERATION	
SIGNAL (RED)	13	135	17	0.50	111.0
(YELLOW)	13	135	25	0.25	81.0
(GREEN)	13	135	15	0.25	49.0
ARROW	18	135	12	0.10	21.6
PED. SIGNAL	-	90	25	1.00	-
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN	-	84	-	0.05	-
FLASHER	-	-	-	0.50	-
TOTAL =					362.60

NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE ADJACENT SYSTEM.

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

FOUNDATION (DEPTH)	(FT.) (m)	CABLE SLACK	(FT.) (m)	VERTICAL	(FT.) (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' + L - 2 = (6m+L-0.6m)=
E - M. ARM POLE	-	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

ENERGY COSTS - BILLED TO: ILLINOIS DEPT. OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHALMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY - CONTACT: JERRY NISSEN  
PHONE: (708) 235-2340  
COMPANY: COMMONWEALTH EDISON

**SETON ENGINEERING**  
SERVICE CORPORATION  
CIVIL ENGINEERS

19 S. BOTHWELL STREET  
PALATINE, ILLINOIS 60067  
VOICE: 847-776-7200 FAX: 847-776-7239

SETON PROJECT # 2002001-238

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**CABLE PLAN**

US ROUTE 30 (LINCOLN HIGHWAY) AT  
FORD PLANT ENTRANCE  
FORD HEIGHTS, ILLINOIS

SCALE: N.T.S.  
DATE: 08-01-2007

DRAWN BY: BR  
DESIGNED BY: VO  
CHECKED BY: JAC



**TEMPORARY TRAFFIC SIGNAL LEGEND**

	PROPOSED	EXISTING		PROPOSED	EXISTING
TEMPORARY CONTROLLER CABINET	[Symbol]	[Symbol]	HEAVY-DUTY HANDHOLE	[Symbol]	[Symbol]
TEMPORARY SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	[Symbol]	[Symbol]	DOUBLE HANDHOLE	[Symbol]	[Symbol]
TEMPORARY TRAFFIC SIGNAL HEAD	[Symbol]	[Symbol]	G.S. CONDUIT IN TRENCH OR PUSHED	[Symbol]	[Symbol]
SPAN WIRE MOUNTED ORIGINAL LOCATION	[Symbol]	[Symbol]	TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	[Symbol]	[Symbol]
TEMPORARY TRAFFIC SIGNAL HEAD	[Symbol]	[Symbol]	COMMON TRENCH	CT	[Symbol]
SPAN WIRE MOUNTED SECONDARY LOCATION	[Symbol]	[Symbol]	UNIT DUCT	UD	[Symbol]
TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED	[Symbol]	[Symbol]	TEMPORARY PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	[Symbol]	[Symbol]	DETECTOR LOOP, TYPE I	[Symbol]	[Symbol]
EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED	[Symbol]	[Symbol]	PERFORMED DETECTOR LOOP	[Symbol]	[Symbol]
STEEL MAST ARM ASSEMBLY AND POLE	[Symbol]	[Symbol]	MICROWAVE VEHICLE SENSOR	[Symbol]	[Symbol]
ALUMINUM MAST ARM ASSEMBLY AND POLE	[Symbol]	[Symbol]	VIDEO DETECTOR	[Symbol]	[Symbol]
COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE	[Symbol]	[Symbol]	CLOSED CIRCUIT TV	[Symbol]	[Symbol]
EXISTING STREET LIGHT, FOUNDATION AND LUMINAIRE TO REMAIN	[Symbol]	[Symbol]	EMERGENCY VEHICLE SYSTEM DETECTOR	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]	CONFIRMATION BEACON	[Symbol]	[Symbol]
VIDEO DETECTION ZONE	[Symbol]	[Symbol]	REMOVAL	[Symbol]	[Symbol]
WIRELESS INTERCONNECT (ANTENNA)	[Symbol]	[Symbol]	RELOCATE	[Symbol]	[Symbol]

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH TRAFFIC SIGNAL POST
- 3 EACH ALUMINUM MAST ARM ASSEMBLY AND POLE
- 1 EACH STEEL MAST ARM ASSEMBLY AND POLE
- 2 EACH SIGNAL HEAD, 1-FACE, 4-SECTION
- 2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 4-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 2 EACH PEDESTRIAN SIGNAL HEAD, 1-FACE
- 3 EACH PEDESTRIAN SIGNAL HEAD, 2-FACE
- 8 EACH PEDESTRIAN PUSHBUTTON
- 1 EACH SERVICE INSTALLATION, POLE MOUNTED
- 4 EACH TRAFFIC SIGNAL BACKPLATE

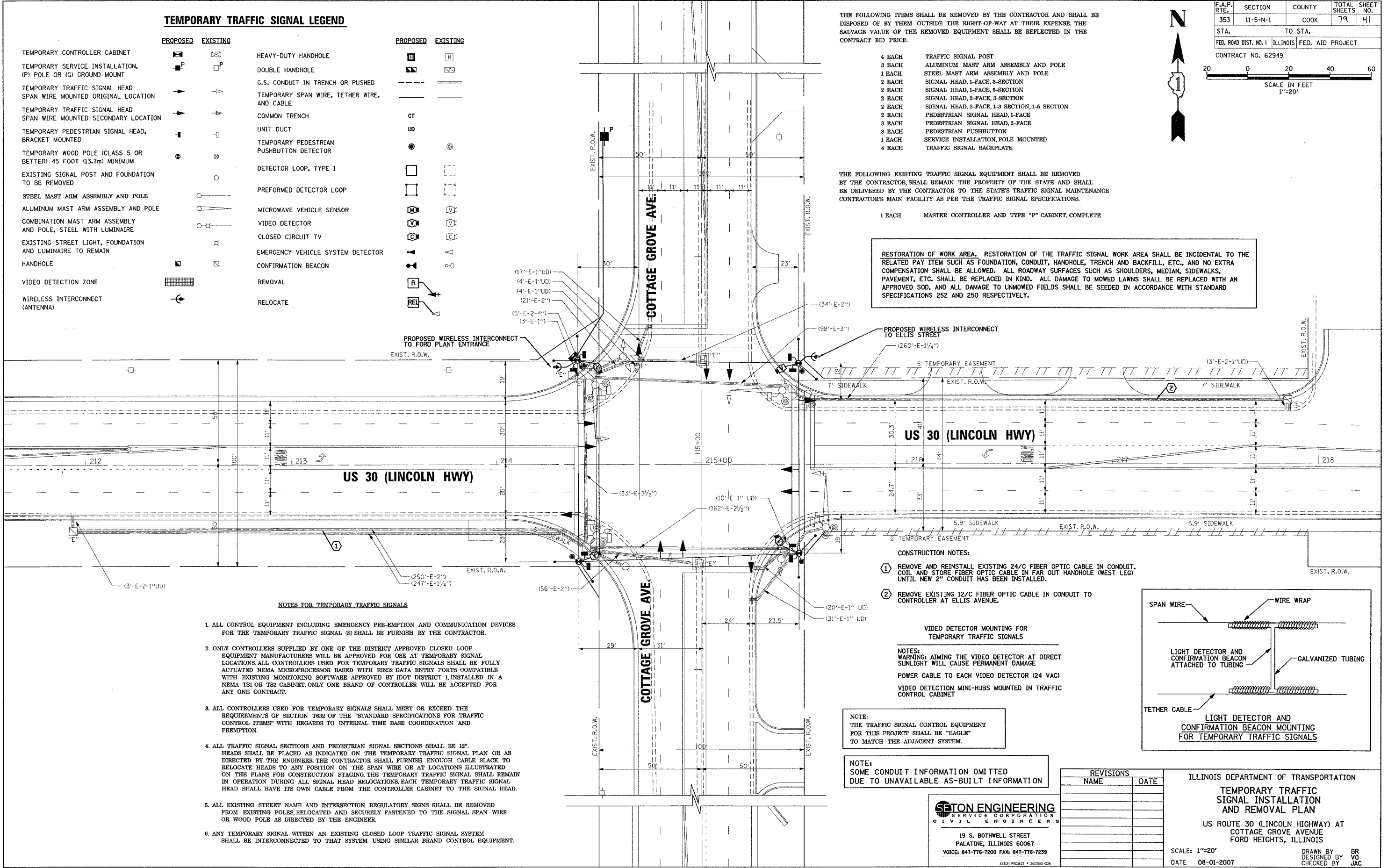
THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE STATE'S TRAFFIC SIGNAL MAINTENANCE CONTRACTOR'S MAIN FACILITY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

- 1 EACH MASTER CONTROLLER AND TYPE "P" CABINET, COMPLETE

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	41
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62949				

SCALE IN FEET 1"=20'



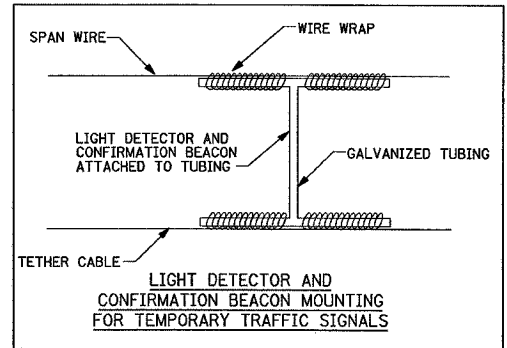
**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL (S) SHALL BE FURNISH BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL CONTROLLERS USED FOR TEMPORARY SIGNALS SHALL MEET OR EXCEED THE REQUIREMENTS OF SECTION T632 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS" WITH REGARDS TO INTERNAL TIME BASE COORDINATION AND PREMPTION.
4. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
5. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
6. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.

- CONSTRUCTION NOTES:**
1. REMOVE AND REINSTALL EXISTING 24/C FIBER OPTIC CABLE IN CONDUIT. COIL AND STORE FIBER OPTIC CABLE IN FAR OUT HANDHOLE (WEST LEG) UNTIL NEW 2" CONDUIT HAS BEEN INSTALLED.
  2. REMOVE EXISTING 12/C FIBER OPTIC CABLE IN CONDUIT TO CONTROLLER AT ELLIS AVENUE.

**VIDEO DETECTOR MOUNTING FOR TEMPORARY TRAFFIC SIGNALS**

NOTES:  
 WARNING: AIMING THE VIDEO DETECTOR AT DIRECT SUNLIGHT WILL CAUSE PERMANENT DAMAGE  
 POWER CABLE TO EACH VIDEO DETECTOR (24 VAC)  
 VIDEO DETECTION MINI-HUBS MOUNTED IN TRAFFIC CONTROL CABINET



NOTE:  
 THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE ADJACENT SYSTEM.

NOTE:  
 SOME CONDUIT INFORMATION OMITTED DUE TO UNAVAILABLE AS-BUILT INFORMATION

**SETON ENGINEERING**  
 SERVICE CORPORATION  
 CIVIL ENGINEERS

19 S. BOWHILL STREET  
 PALATINE, ILLINOIS 60067  
 VOICE: 847-776-7200 FAX: 847-776-7239

SCALE: 1"=20'  
 DATE: 08-01-2007

REVISIONS	
NAME	DATE

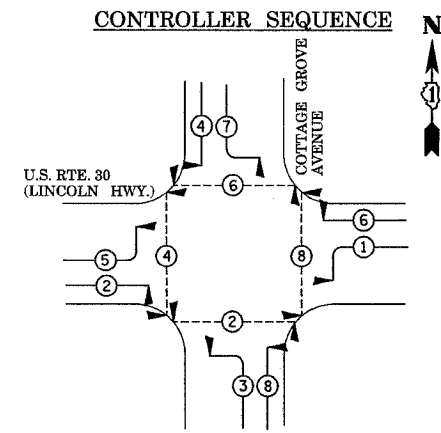
ILLINOIS DEPARTMENT OF TRANSPORTATION

**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN**

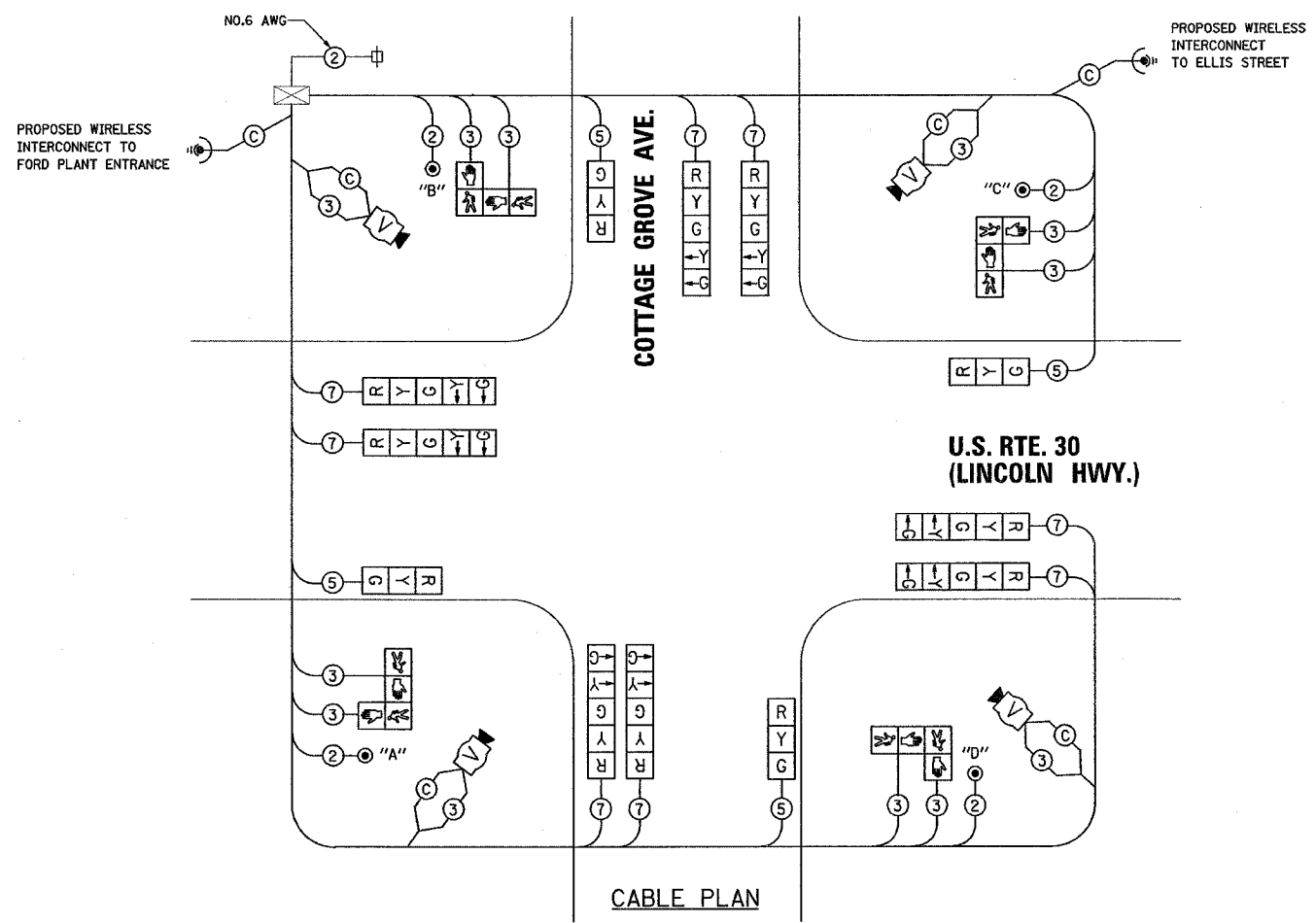
US ROUTE 30 (LINCOLN HIGHWAY) AT COTTAGE GROVE AVENUE FORD HEIGHTS, ILLINOIS

SCALE: 1"=20'  
 DATE: 08-01-2007

DRAWN BY: BR  
 DESIGNED BY: VO  
 CHECKED BY: JAC



**PHASE DESIGNATION DIAGRAM**  
 DUAL ENTRY - ALL LEGS PERMITTED LEFT TURN PHASING



**CABLE PLAN**

**TEMPORARY CABLE DIAGRAM LEGEND**

	PROPOSED	EXISTING
TEMPORARY CONTROLLER CABINET	[Symbol]	[Symbol]
TEMPORARY SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	[Symbol]	[Symbol]
TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300 mm)	[Symbol]	[Symbol]
12" (300mm) PEDESTRIAN SIGNAL SECTION	[Symbol]	[Symbol]
ELECTRIC CABLE IN CONDUIT, NO. 14, UNLESS OTHERWISE NOTED, NUMBER OF CONDUCTORS AS NOTED	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
VEHICLE DETECTOR, INDUCTION LOOP	[Symbol]	[Symbol]
MICROWAVE VEHICLE SENSOR	[Symbol]	[Symbol]
VIDEO DETECTOR	[Symbol]	[Symbol]
CLOSED CIRCUIT TV	[Symbol]	[Symbol]
EMERGENCY VEHICLE LIGHT DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
WIRELESS INTERCONNECT (ANTENNA)	[Symbol]	[Symbol]

**PUSH-BUTTON NOTES:**  
 PUSH-BUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4  
 PUSH-BUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6  
 PUSH-BUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8  
 PUSH-BUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8

**NOTE:**  
 THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE ADJACENT SYSTEM.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	X % OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.0
(YELLOW)	12	135	25	0.25	75.0
(GREEN)	12	135	15	0.25	45.0
ARROW	16	135	12	0.10	19.2
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN	-	84	-	0.05	-
FLASHER	-	-	-	0.50	-
TOTAL =					541.2

ENERGY COSTS - BILLED TO: ILLINOIS DEPT. OF TRANSPORTATION  
 (ADDRESS) 201 WEST CENTER COURT  
 SCHALMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY - CONTACT: JERRY NISSEN  
 PHONE: (708) 235-2340  
 COMPANY: COMMONWEALTH EDISON

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

**SETON ENGINEERING**  
 SERVICE CORPORATION  
 CIVIL ENGINEERS

19 S. BOTHWELL STREET  
 PALATINE, ILLINOIS 60067  
 VOICE: 847-776-7200 FAX: 847-776-7239

SETON PROJECT • 2010201-238

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TEMPORARY CABLE PLAN,  
 TEMPORARY PHASE DESIGNATION DIAGRAM  
 AND TEMPORARY EMERGENCY VEHICLE  
 PREEMPTION SEQUENCE  
 US ROUTE 30 (LINCOLN HIGHWAY) AT  
 COTTAGE GROVE AVENUE  
 FORD HEIGHTS, ILLINOIS

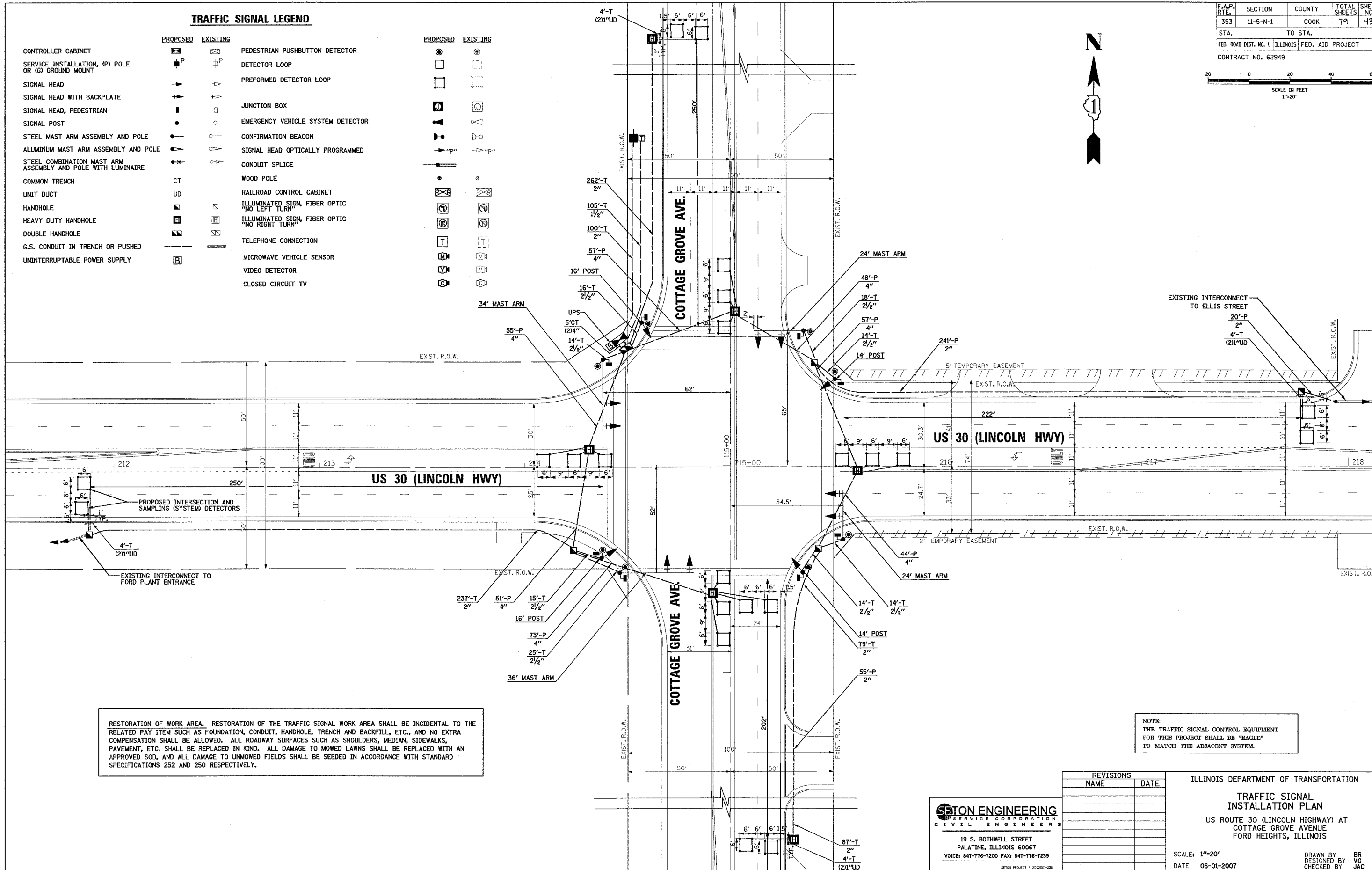
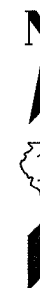
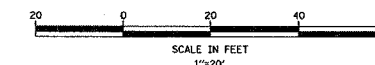
SCALE: N.T.S.  
 DATE: 08-01-2007

DRAWN BY: BR  
 DESIGNED BY: VO  
 CHECKED BY: JAC

**TRAFFIC SIGNAL LEGEND**

	PROPOSED	EXISTING		PROPOSED	EXISTING
CONTROLLER CABINET			PEDESTRIAN PUSHBUTTON DETECTOR		
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT			DETECTOR LOOP		
SIGNAL HEAD			PREFORMED DETECTOR LOOP		
SIGNAL HEAD WITH BACKPLATE			JUNCTION BOX		
SIGNAL HEAD, PEDESTRIAN			EMERGENCY VEHICLE SYSTEM DETECTOR		
SIGNAL POST			CONFIRMATION BEACON		
STEEL MAST ARM ASSEMBLY AND POLE			SIGNAL HEAD OPTICALLY PROGRAMMED		
ALUMINUM MAST ARM ASSEMBLY AND POLE			CONDUIT SPLICE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			WOOD POLE		
COMMON TRENCH	CT		RAILROAD CONTROL CABINET		
UNIT DUCT	UD		ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"		
HANDHOLE			ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"		
HEAVY DUTY HANDHOLE			TELEPHONE CONNECTION		
DOUBLE HANDHOLE			MICROWAVE VEHICLE SENSOR		
G.S. CONDUIT IN TRENCH OR PUSHED			VIDEO DETECTOR		
UNINTERRUPTIBLE POWER SUPPLY			CLOSED CIRCUIT TV		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	43
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62949				



RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE ADJACENT SYSTEM.

REVISIONS	
NAME	DATE

**SETON ENGINEERING**  
SERVICE CORPORATION  
CIVIL ENGINEERS

19 S. BOWWELL STREET  
PALATINE, ILLINOIS 60067  
VOICE: 847-776-7200 FAX: 847-776-7239  
SETON PROJECT # 2006001-030

ILLINOIS DEPARTMENT OF TRANSPORTATION

**TRAFFIC SIGNAL  
INSTALLATION PLAN**

US ROUTE 30 (LINCOLN HIGHWAY) AT  
COTTAGE GROVE AVENUE  
FORD HEIGHTS, ILLINOIS

SCALE: 1"=20'  
DATE 08-01-2007

DRAWN BY BR  
DESIGNED BY VJ  
CHECKED BY JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	44
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

CONTRACT NO. 62949

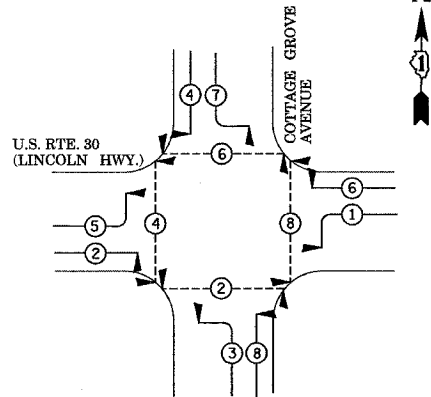
**SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 2	SQ FT	52.50
CONDUIT IN TRENCH, 1" DIA., GALVANIZED STEEL	FOOT	105
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	765
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	180
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	10
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	315
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	385
CONDUIT SPLICE	EACH	1
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	6
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	900
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO.6 1C	FOOT	599
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO.14 2C	FOOT	1308
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO.14 3C	FOOT	1380
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO.14 6C	FOOT	1088
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO.14 7C	FOOT	1542
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.14 1 PAIR	FOOT	2141
ELECTRIC CABLE IN CONDUIT, SERVICE, NO.6 2C	FOOT	119
STEEL MAST ARM ASSEMBLY AND POLE, 24 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 14 FT.	EACH	2
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	20
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E, 30-INCH DIA.	FOOT	60
SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, L.E.D., 1-FACE, BRACKET MOUNTED	EACH	8
PEDESTRIAN PUSH-BUTTON	EACH	8
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	369
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	9
REMOVE EXISTING CONCRETE FOUNDATION	EACH	8
TRAFFIC SIGNAL BACKPLATE, LOUVERED ALUMINUM	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	9
DETECTOR LOOP, TYPE 1	FOOT	780
UNINTERRUPTIBLE POWER SUPPLY	EACH	1
SERVICE INSTALLATION, POLE MOUNTED	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1

**CABLE PLAN LEGEND**

EXISTING	PROPOSED	EXISTING	PROPOSED	DESCRIPTION
(G)	(G)	(1)	(1)	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
(R)	(R)	(24)	(24)	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F
(W)	(W)	(R)	(R)	SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD
(C)	(C)	(C)	(C)	CONTROLLER CABINET
(P)	(P)	(P)	(P)	SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT
(T)	(T)	(T)	(T)	TELEPHONE CONNECTION
(D)	(D)	(D)	(D)	DETECTOR LOOP
(DL)	(DL)	(DL)	(DL)	PERFORMED DETECTOR LOOP
(E)	(E)	(H)	(H)	EMERGENCY VEHICLE LIGHT DETECTOR
(B)	(B)	(P)	(P)	CONFIRMATION BEACON
(PB)	(PB)	(S)	(S)	PUSHBUTTON DETECTOR
(2)	(2)	(M)	(M)	DENOTES NUMBER OF CONDUCTORS, ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
(U)	(U)	(V)	(V)	UNINTERRUPTIBLE POWER SUPPLY
		(C)	(C)	RAILROAD CONTROL CABINET
		(L)	(L)	ILLUMINATED SIGN "NO LEFT TURN"
		(R)	(R)	ILLUMINATED SIGN "NO RIGHT TURN"
		(H)	(H)	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C).
		(P)	(P)	GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
		(S)	(S)	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
		(M)	(M)	MICROWAVE VEHICLE SENSOR
		(V)	(V)	VIDEO DETECTOR
		(C)	(C)	CLOSED CIRCUIT TV

**CONTROLLER SEQUENCE**



**LEGEND**

- (\*) DUAL ENTRY PHASE
- (\*) PEDESTRIAN PHASE
- \* NUMBER REFERS TO ASSOCIATED PHASE

**PHASE DESIGNATION DIAGRAM**

DUAL ENTRY - ALL LEGS PERMITTED LEFT TURN PHASING

U.S. RTE. 30 (LINCOLN HWY.)

COTTAGE GROVE AVENUE

**CABLE PLAN**

PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS

INTERCONNECT TO FORD PLANT ENTRANCE DRIVE

NOTE: THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET

NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE ADJACENT SYSTEM.

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	X % OPERATION	
SIGNAL (RED)	12	135	17	0.50	102.00
(YELLOW)	12	135	25	0.25	75.00
(GREEN)	12	135	15	0.25	45.00
ARROW	16	135	12	0.10	19.20
PED. SIGNAL	8	90	25	1.00	200.0
CONTROLLER	1	100	100	1.00	100.00
ILLUM. SIGN	-	84	-	0.05	-
FLASHER	-	-	-	0.50	-
TOTAL =					541.20

ENERGY COSTS - BILLED TO: ILLINOIS DEPT. OF TRANSPORTATION (ADDRESS) 201 WEST CENTER COURT SCHALMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY - CONTACT: JERRY NISSEN (708) 235-2340 COMPANY: COMMONWEALTH EDISON

FOUNDATION (DEPTH)	(FT.) (m)	CABLE SLACK	(FT.) (m)	VERTICAL	(FT.) (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' + L - 2 = (6m+L-0.6m)=
E - M. ARM POLE	-	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

**SEPTON ENGINEERING**  
SERVICE CORPORATION  
CIVIL ENGINEERS

19 S. BOWWELL STREET  
PALATINE, ILLINOIS 60067  
VOICE: 847-776-7200 FAX: 847-776-7239

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE AND SCHEDULE OF QUANTITIES**

US ROUTE 30 (LINCOLN HIGHWAY) AT COTTAGE GROVE AVENUE FORD HEIGHTS, ILLINOIS

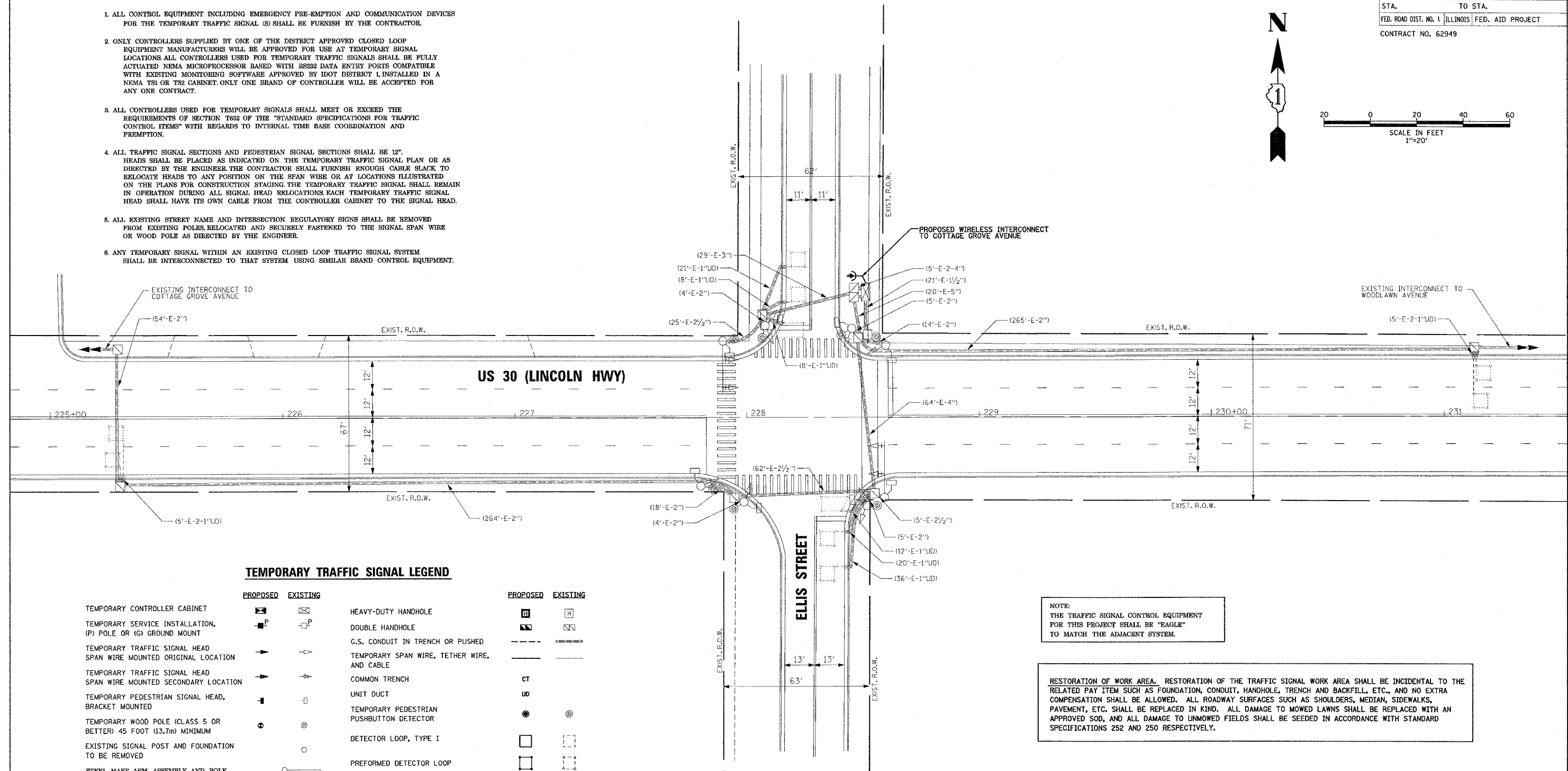
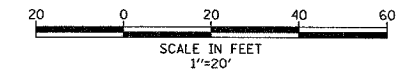
SCALE: N.T.S. DATE 08-01-2007

DRAWN BY BR  
DESIGNED BY VO  
CHECKED BY JAC

**NOTES FOR TEMPORARY TRAFFIC SIGNALS**

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL (S) SHALL BE FURNISH BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS1 OR TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL CONTROLLERS USED FOR TEMPORARY SIGNALS SHALL MEET OR EXCEED THE REQUIREMENTS OF SECTION T632 OF THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS" WITH REGARDS TO INTERNAL TIME BASE COORDINATION AND PREMPTION.
4. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE 12". HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
5. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
6. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	45
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62949				



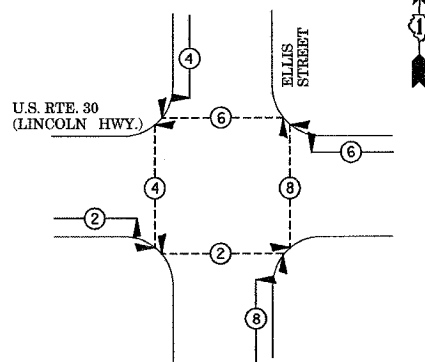
PROPOSED	EXISTING	DESCRIPTION	PROPOSED	EXISTING
		TEMPORARY CONTROLLER CABINET		
		TEMPORARY SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT		
		TEMPORARY TRAFFIC SIGNAL HEAD		
		SPAN WIRE MOUNTED ORIGINAL LOCATION		
		TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED		
		TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM		
		EXISTING SIGNAL POST AND FOUNDATION TO BE REMOVED		
		STEEL MAST ARM ASSEMBLY AND POLE		
		COMBINATION MAST ARM ASSEMBLY AND POLE, STEEL WITH LUMINAIRE		
		EXISTING STREET LIGHT, FOUNDATION AND LUMINAIRE TO REMAIN		
		HANDHOLE		
		VIDEO DETECTION ZONE		
		WIRELESS INTERCONNECT (ANTENNA)		
		HEAVY-DUTY HANDHOLE		
		DOUBLE HANDHOLE		
		G.S. CONDUIT IN TRENCH OR PUSHED		
		TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
		COMMON TRENCH		
		UNIT DUCT		
		TEMPORARY PEDESTRIAN PUSHBUTTON DETECTOR		
		DETECTOR LOOP, TYPE I		
		PREFORMED DETECTOR LOOP		
		MICROWAVE VEHICLE SENSOR		
		VIDEO DETECTOR		
		CLOSED CIRCUIT TV		
		EMERGENCY VEHICLE SYSTEM DETECTOR		
		CONFIRMATION BEACON		
		REMOVAL		
		RELOCATE		

NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE ADJACENT SYSTEM.

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOG, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

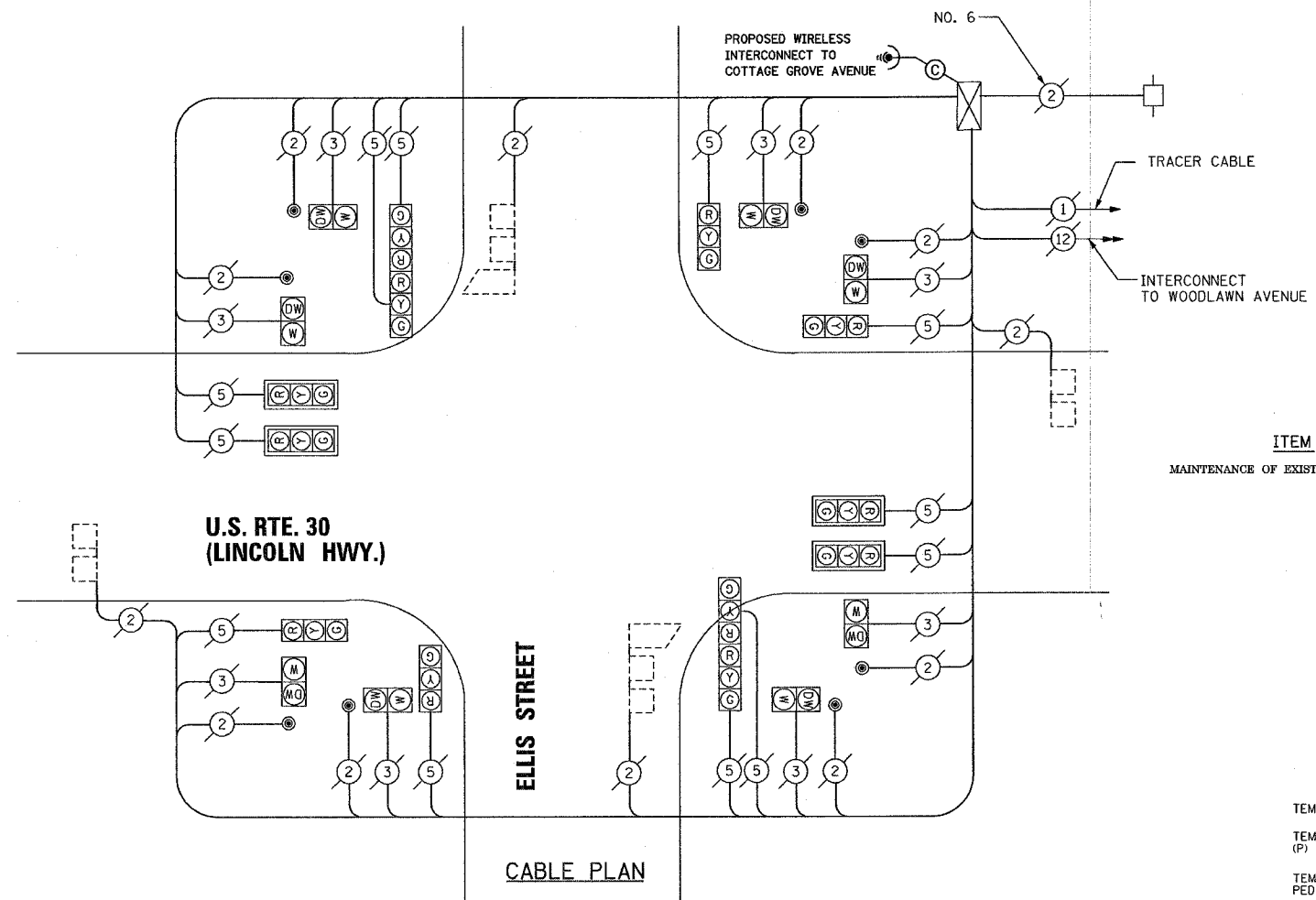
<p>19 S. BOTHWELL STREET PALATINE, ILLINOIS 60067 VOICE: 847-776-7200 FAX: 847-776-7239</p>	<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NAME</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	NAME	DATE																					<p>ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p><b>TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN</b></p> <p>US ROUTE 30 (LINCOLN HIGHWAY) AT ELLIS STREET FORD HEIGHTS, ILLINOIS</p> <p>SCALE: 1"=20'</p> <p>DATE 08-01-2007</p> <p>DRAWN BY BR DESIGNED BY VO CHECKED BY JAC</p>
	NAME	DATE																						

**CONTROLLER SEQUENCE**



**LEGEND**  
 \* DUAL ENTRY PHASE  
 \* PEDESTRIAN PHASE  
 \* NUMBER REFERS TO ASSOCIATED PHASE

**PHASE DESIGNATION DIAGRAM**



**SCHEDULE OF QUANTITIES**

ITEM	UNIT	QUANTITY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1

**TEMPORARY CABLE DIAGRAM LEGEND**

	PROPOSED	EXISTING
TEMPORARY CONTROLLER CABINET	[Symbol]	[Symbol]
TEMPORARY SERVICE INSTALLATION (P) POLE OR (G) GROUND MOUNT	[Symbol]	[Symbol]
TEMPORARY TRAFFIC SIGNAL SECTION OR PEDESTRIAN SIGNAL SECTION 12" (300 mm)	[Symbol]	[Symbol]
12" (300mm) PEDESTRIAN SIGNAL SECTION	[Symbol]	[Symbol]
ELECTRIC CABLE IN CONDUIT, NO. 14, UNLESS OTHERWISE NOTED, NUMBER OF CONDUCTORS AS NOTED	[Symbol]	[Symbol]
PEDESTRIAN PUSHBUTTON DETECTOR	[Symbol]	[Symbol]
VEHICLE DETECTOR, INDUCTION LOOP	[Symbol]	[Symbol]
MICROWAVE VEHICLE SENSOR	[Symbol]	[Symbol]
VIDEO DETECTOR	[Symbol]	[Symbol]
CLOSED CIRCUIT TV	[Symbol]	[Symbol]
EMERGENCY VEHICLE LIGHT DETECTOR	[Symbol]	[Symbol]
CONFIRMATION BEACON	[Symbol]	[Symbol]
WIRELESS INTERCONNECT (ANTENNA)	[Symbol]	[Symbol]

**NOTE:**  
 THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE ADJACENT SYSTEM.

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I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	X % OPERATION	
SIGNAL (RED)	12	135	17	0.50	810.0
(YELLOW)	12	135	25	0.25	405.0
(GREEN)	12	135	15	0.25	405.0
ARROW	-	135	12	0.10	-
PED. SIGNAL	8	90	25	1.00	720.0
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN	-	84	-	0.05	-
FLASHER	-	-	-	0.50	-
TOTAL =					2440.0

ENERGY COSTS - BILLED TO: ILLINOIS DEPT. OF TRANSPORTATION (ADDRESS) 201 WEST CENTER COURT SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY - CONTACT: JERRY NISSEN (708) 235-2340 COMPANY: COMMONWEALTH EDISON

**SETON ENGINEERING**  
 SERVICE CORPORATION  
 CIVIL ENGINEERS

19 S. BOTHWELL STREET  
 PALATINE, ILLINOIS 60067  
 VOICE: 847-776-7200 FAX: 847-776-7239

REVISIONS	
NAME	DATE

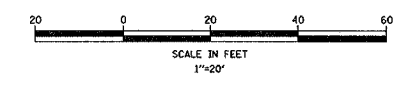
ILLINOIS DEPARTMENT OF TRANSPORTATION

**TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM**  
 US ROUTE 30 (LINCOLN HIGHWAY) AT ELLIS STREET  
 FORD HEIGHTS, ILLINOIS

SCALE: N.T.S.  
 DATE: 08-01-2007

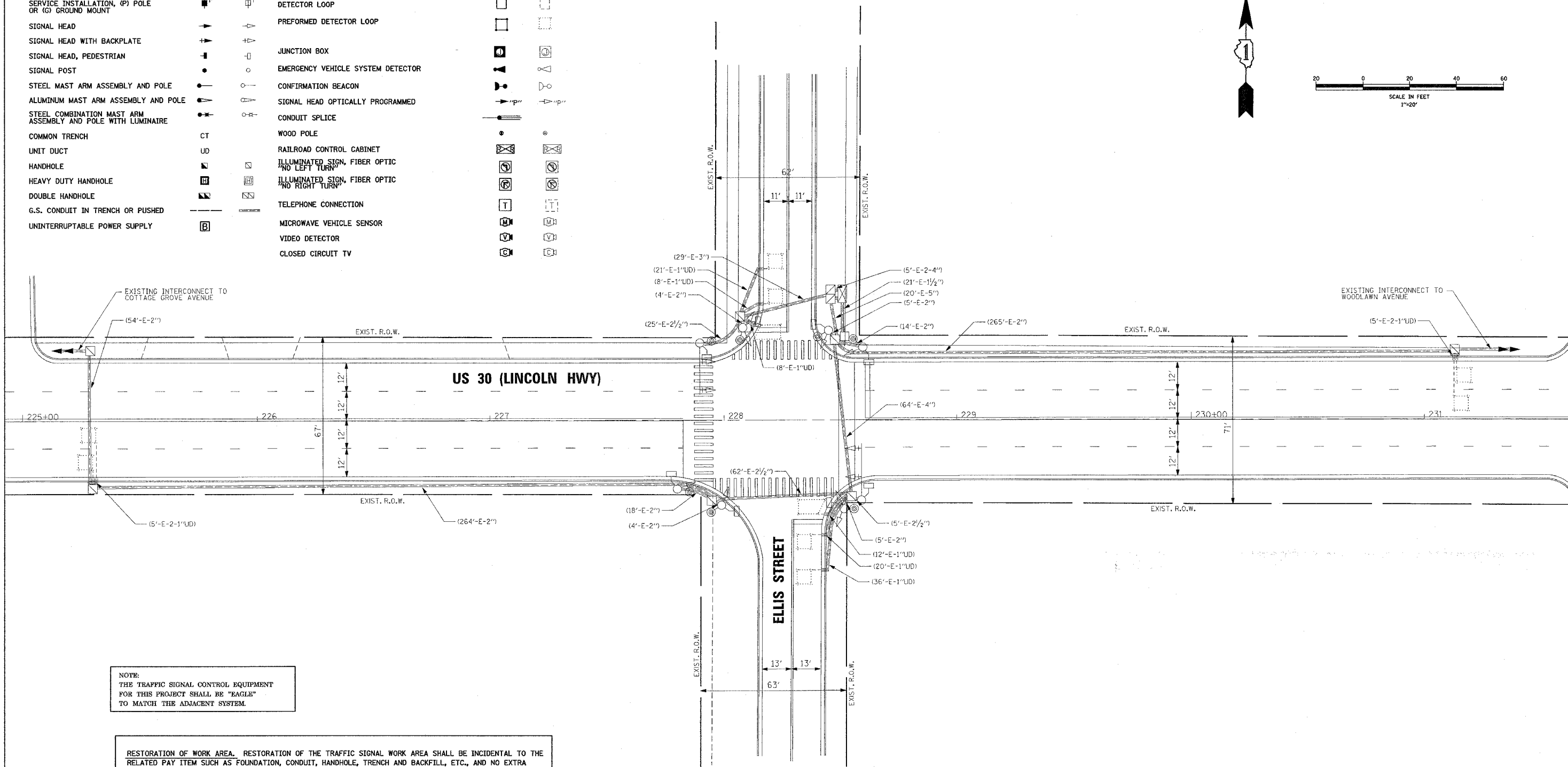
DRAWN BY: BR  
 DESIGNED BY: VO  
 CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	47
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62949				



**TRAFFIC SIGNAL LEGEND**

<b>PROPOSED</b>	<b>EXISTING</b>	<b>PROPOSED</b>	<b>EXISTING</b>
CONTROLLER CABINET		PEDESTRIAN PUSHBUTTON DETECTOR	
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT		DETECTOR LOOP	
SIGNAL HEAD		PREFORMED DETECTOR LOOP	
SIGNAL HEAD WITH BACKPLATE		JUNCTION BOX	
SIGNAL HEAD, PEDESTRIAN		EMERGENCY VEHICLE SYSTEM DETECTOR	
SIGNAL POST		CONFIRMATION BEACON	
STEEL MAST ARM ASSEMBLY AND POLE		SIGNAL HEAD OPTICALLY PROGRAMMED	
ALUMINUM MAST ARM ASSEMBLY AND POLE		CONDUIT SPLICE	
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		WOOD POLE	
COMMON TRENCH	CT	RAILROAD CONTROL CABINET	
UNIT DUCT	UD	ILLUMINATED SIGN, FIBER OPTIC "NO LEFT TURN"	
HANDHOLE		ILLUMINATED SIGN, FIBER OPTIC "NO RIGHT TURN"	
HEAVY DUTY HANDHOLE		TELEPHONE CONNECTION	
DOUBLE HANDHOLE		MICROWAVE VEHICLE SENSOR	
G.S. CONDUIT IN TRENCH OR PUSHED		VIDEO DETECTOR	
UNINTERRUPTABLE POWER SUPPLY		CLOSED CIRCUIT TV	



NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE ADJACENT SYSTEM.

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

**SETON ENGINEERING**  
SERVICE CORPORATION  
CIVIL ENGINEERS

19 S. BOWWELL STREET  
PALATINE, ILLINOIS 60067  
VOICE: 847-776-7200 FAX: 847-776-7239

SETON PROJECT # 200205-028

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

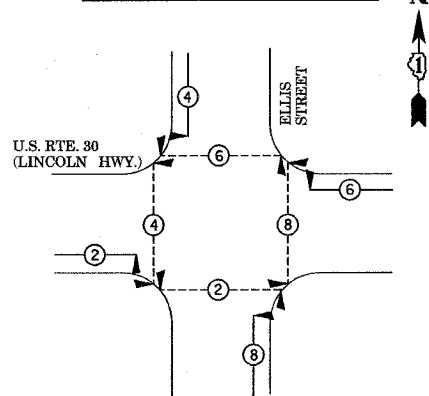
**TRAFFIC SIGNAL  
INSTALLATION PLAN**

US ROUTE 30 (LINCOLN HIGHWAY) AT  
ELLIS STREET  
FORD HEIGHTS, ILLINOIS

SCALE: 1"=20'  
DATE: 08-01-2007

DRAWN BY: BR  
DESIGNED BY: VO  
CHECKED BY: JAC

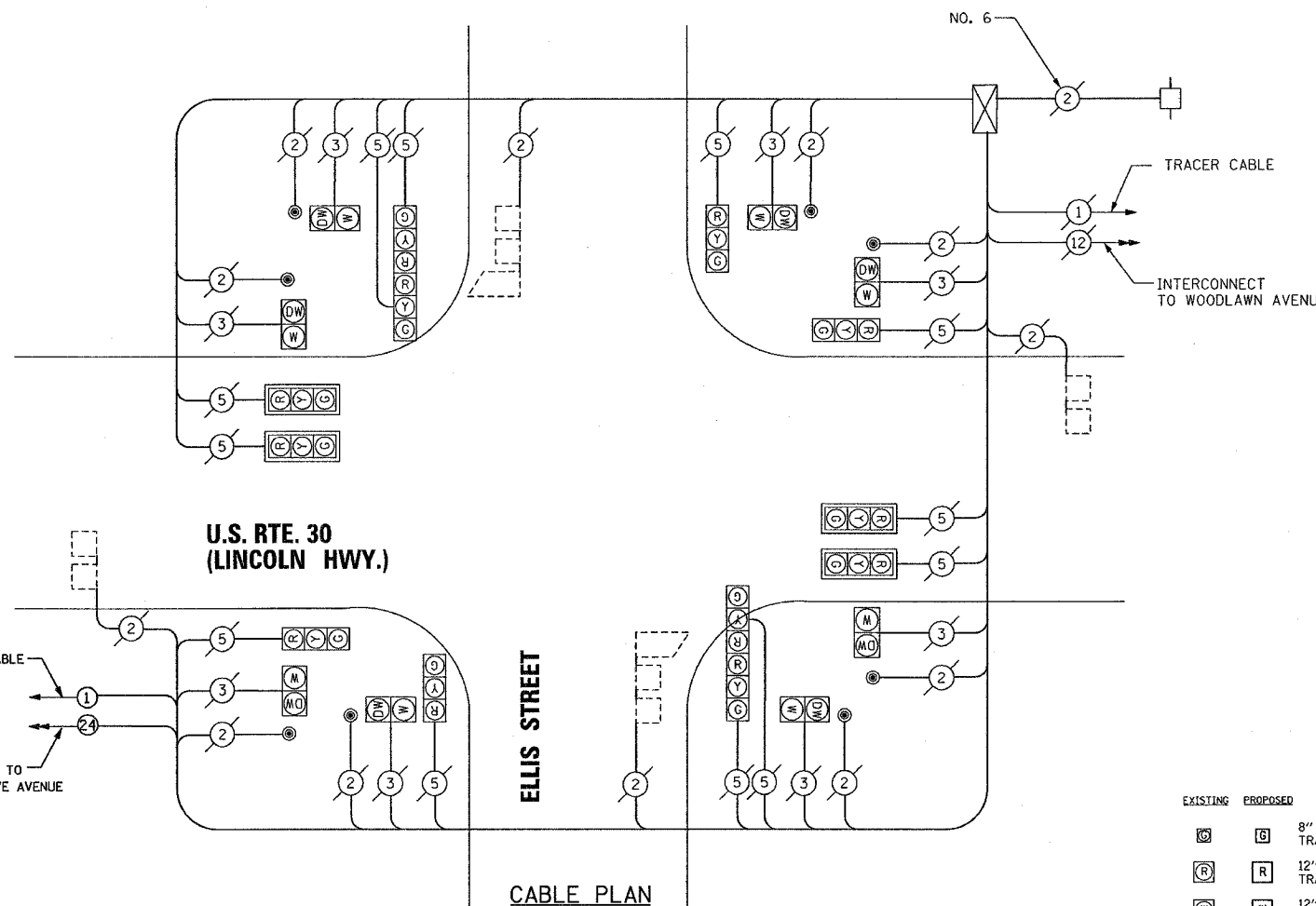
### CONTROLLER SEQUENCE



**LEGEND**

- \* DUAL ENTRY PHASE
- \* PEDESTRIAN PHASE
- \* NUMBER REFERS TO ASSOCIATED PHASE

### PHASE DESIGNATION DIAGRAM



**NOTE:**  
THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET

### CABLE PLAN LEGEND

EXISTING	PROPOSED	EXISTING	PROPOSED

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	X% OPERATION	
SIGNAL (RED)	12	135	17	0.50	810.0
(YELLOW)	12	135	25	0.25	405.0
(GREEN)	12	135	15	0.25	405.0
ARROW	-	135	12	0.10	-
PED. SIGNAL	8	90	25	1.00	720.0
CONTROLLER	1	100	100	1.00	100.0
ILLUM. SIGN	-	84	-	0.05	-
FLASHER	0	-	-	0.50	-
TOTAL =					2440.0

ENERGY COSTS - BILLED TO: ILLINOIS DEPT. OF TRANSPORTATION  
201 WEST CENTER COURT  
SCHALMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY - CONTACT: JERRY NISSEN  
PHONE: (708) 235-2340  
COMPANY: COMMONWEALTH EDISON

**NOTE:**  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE ADJACENT SYSTEM.

**RESTORATION OF WORK AREA.** RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

FOUNDATION (DEPTH)	(FT.) (m)	CABLE SLACK	(FT.) (m)	VERTICAL	(FT.) (m)
TYPE A - POST	4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
D - CONTROLLER	4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20' + L - 2 = (6m+L-0.6m)=
E - M. ARM POLE	-	SIGNAL POST	2 (1.0)	BRACKET MOUNTED	13 (4.0)
24" (600mm)	10 (3.0)	CONTROLLER CAB.	1 (0.5)	PED. PUSHBUTTON	4 (1.2)
30" (750mm)	15 (4.6)	FIBER OPTIC	13 (4.0)	ELECTRIC SERVICE	13.5 (4.1)
		ELECTRIC SERVICE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
		GROUND CABLE	1 (0.5)	POST MOUNTED	6 (1.8)

**SETON ENGINEERING**  
SERVICE CORPORATION  
CIVIL ENGINEERS

19 S. BOTHWELL STREET  
PALATINE, ILLINOIS 60067  
VOICE: 847-776-7200 FAX: 847-776-7239

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**CABLE PLAN AND PHASE DESIGNATION DIAGRAM**

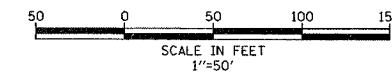
US ROUTE 30 (LINCOLN HIGHWAY) AT ELLIS STREET  
FORD HEIGHTS, ILLINOIS

SCALE: N.T.S.  
DATE: 08-01-2007

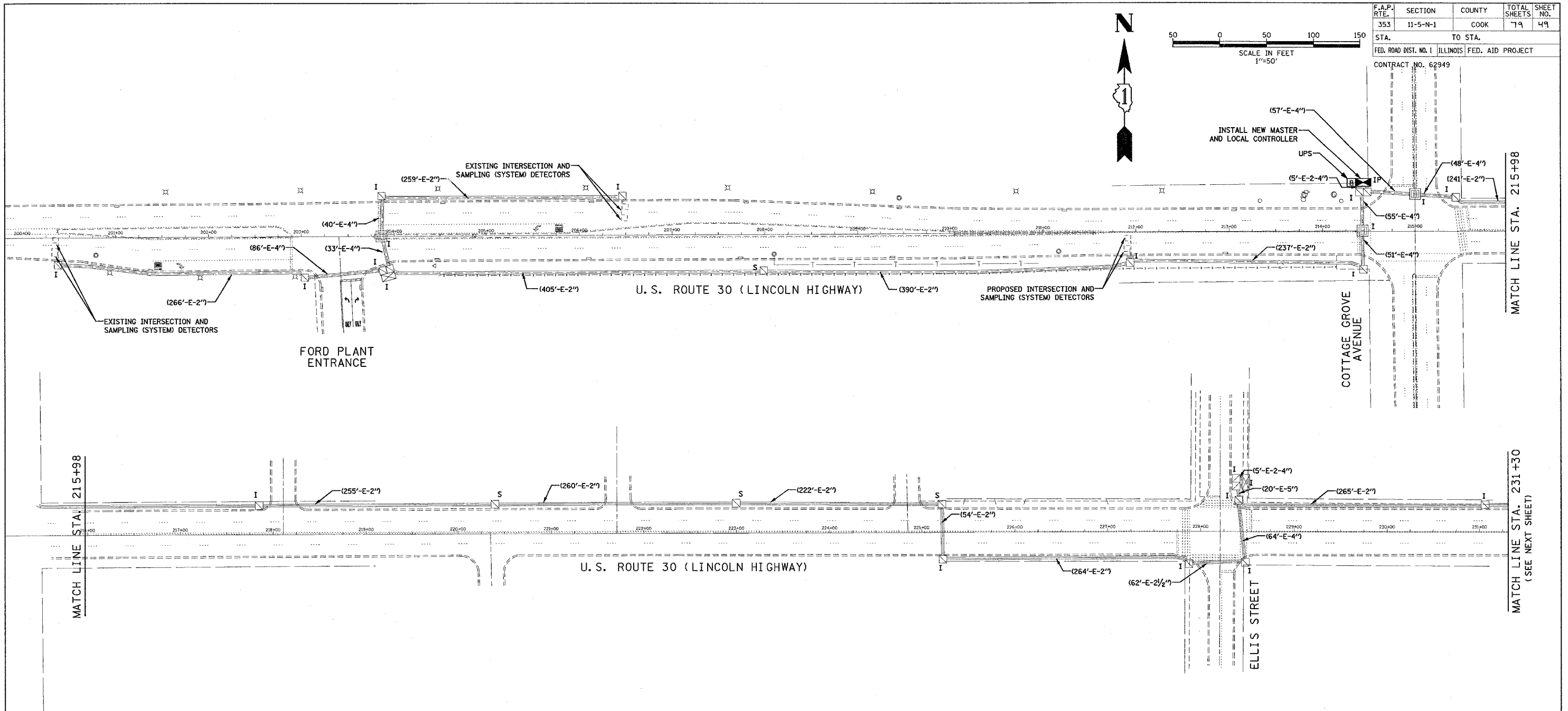
DRAWN BY: BR  
DESIGNED BY: VO  
CHECKED BY: JAC



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	49
STA.	TO STA.			
	FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT	



CONTRACT NO. 62949



**INTERCONNECT PLAN LEGEND**

	PROPOSED	EXISTING
CONTROLLER		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
DETECTOR LOOP SYSTEM		
INTERSECTION	"IP"	"I"
UNIT DUCT	UD	
COMMON TRENCH	CT	
UNINTERRUPTABLE POWER SUPPLY	B	

**RESTORATION OF WORK AREA.**  
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

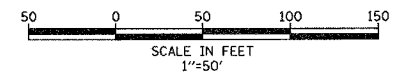
NOTE:  
 THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE ADJACENT SYSTEM.

REVISIONS	
NAME	DATE

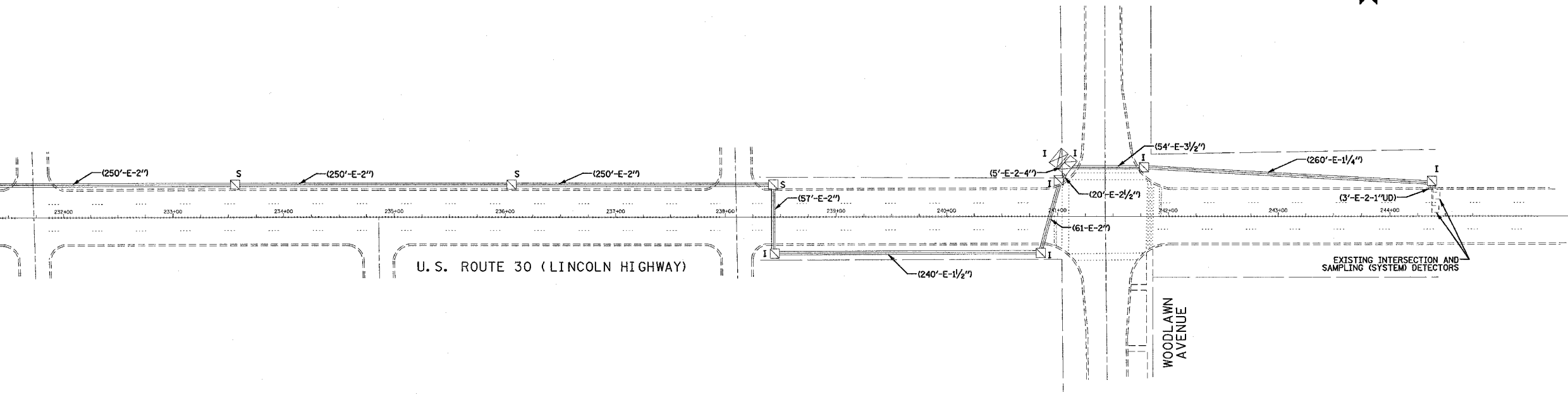
**SETON ENGINEERING**  
 SERVICE CORPORATION  
 CIVIL ENGINEERS  
 19 S. BOTHWELL STREET  
 PALATINE, ILLINOIS 60067  
 VOICE: 847-776-7200 FAX: 847-776-7239  
SETON PROJECT # 2002001-028

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SIGNAL INTERCONNECT PLAN  
 (SHEET 1 OF 2)  
 U.S. RTE. 30 (LINCOLN HWY.) FROM  
 FORD PLANT ENTRANCE TO WOODLAWN AVENUE  
 SCALE: 1"=50'  
 DATE: 08-01-2007  
 DRAWN BY: BR  
 DESIGNED BY: VO  
 CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	50
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62949				



MATCH LINE STA. 231+30  
(SEE PREVIOUS SHEET)



**INTERCONNECT PLAN LEGEND**

	PROPOSED	EXISTING
CONTROLLER		
HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
DETECTOR LOOP		
SYSTEM	"S"	"I"
INTERSECTION	"IP"	"I"
UNIT DUCT	UD	
COMMON TRENCH	CT	

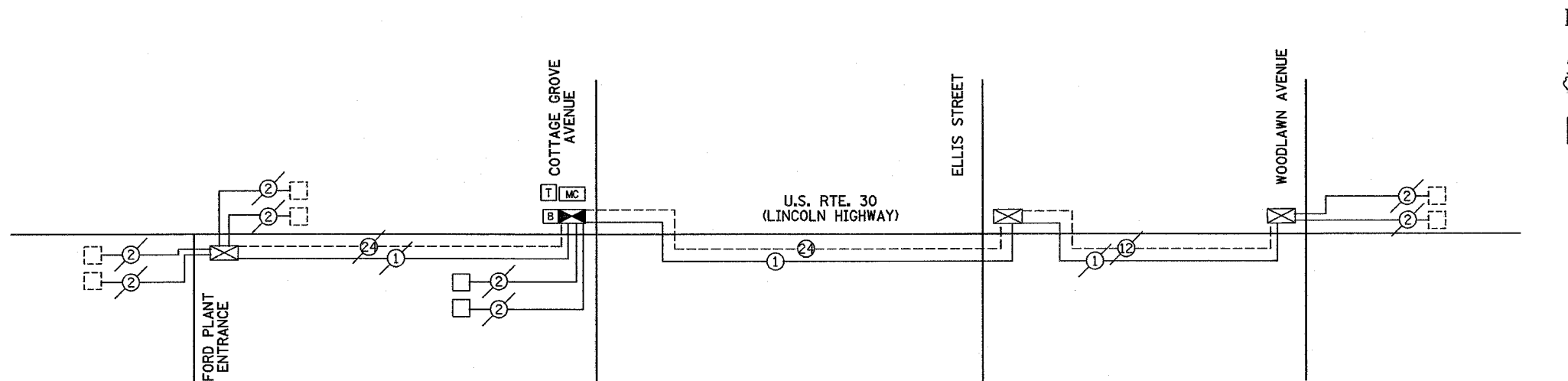
**RESTORATION OF WORK AREA.**  
 RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDER, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

**NOTE:**  
 THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE ADJACENT SYSTEM.

**SETON ENGINEERING**  
 SERVICE CORPORATION  
 CIVIL ENGINEERS  
 19 S. BOTHWELL STREET  
 PALATINE, ILLINOIS 60067  
 VOICE: 847-776-7200 FAX: 847-776-7239  
SETON PROJECT \* R000001-020

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC SIGNAL INTERCONNECT PLAN  
 (SHEET 2 OF 2)  
 U.S. RTE. 30 (LINCOLN HWY.) FROM  
 FORD PLANT ENTRANCE TO WOODLAWN AVENUE  
 SCALE: 1"=50'  
 DATE 08-01-2007  
 DRAWN BY BR  
 DESIGNED BY VO  
 CHECKED BY JAC



### INTERCONNECT SCHEMATIC LEGEND

EXISTING INTERSECTION CONTROLLER	
PROPOSED INTERSECTION CONTROLLER	
EXISTING MASTER CONTROLLER	
PROPOSED MASTER CONTROLLER	
MASTER MASTER CONTROLLER	
EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTORS	
PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS	
EXISTING INTERSECTION LOOP DETECTORS	
PROPOSED SAMPLING (SYSTEM) DETECTORS	
EXISTING SAMPLING (SYSTEM) DETECTORS	
PROPOSED SAMPLING (SYSTEM) DETECTORS	
EXISTING SAMPLING (SYSTEM) DETECTORS, PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS.	
EXISTING SAMPLING (SYSTEM) DETECTORS, PROPOSED SAMPLING (SYSTEM) DETECTORS.	
EXISTING PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS	
PROPOSED PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS	
EXISTING SAMPLING (SYSTEM) PREFORMED DETECTORS	
PROPOSED SAMPLING (SYSTEM) PREFORMED DETECTORS	
EXISTING FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SMI2F	
PROPOSED FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SMI2F	
EXISTING INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE	
PROPOSED INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE	
EXISTING INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED	
PROPOSED INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED	
EXISTING LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED	
PROPOSED LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED	
EXISTING ELECTRIC CABLE, 1/C (AS SPECIFIED)	
PROPOSED ELECTRIC CABLE, 1/C (AS SPECIFIED)	
EXISTING TELEPHONE CONNECTION	
PROPOSED TELEPHONE CONNECTION	
UNINTERRUPTABLE POWER SUPPLY	

### SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
MASTER CONTROLLER (SPECIAL)	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 MM12F & SMI2F	FOOT	1660
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1C	FOOT	1567
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM - LEVEL 1	EACH	1

NOTE:  
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE ADJACENT SYSTEM.

REVISIONS	
NAME	DATE

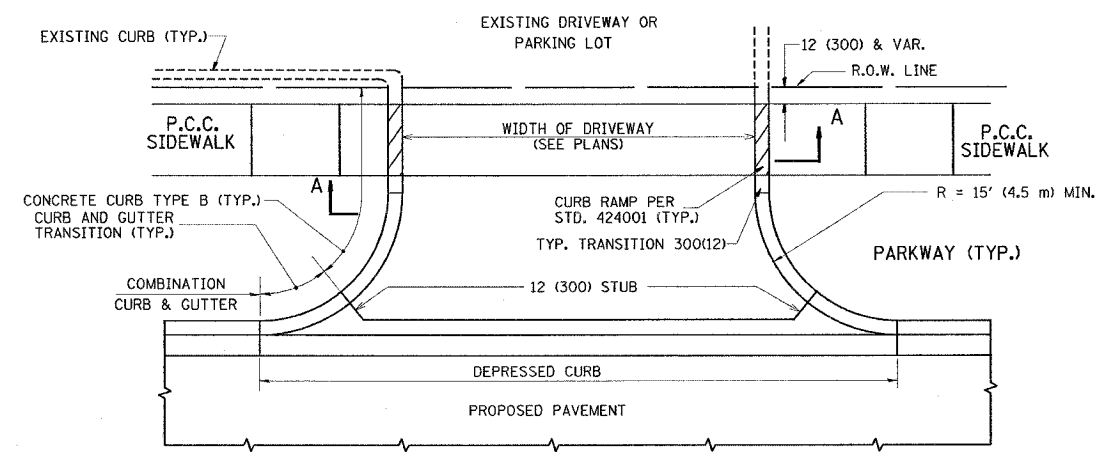
**SETON ENGINEERING**  
SERVICE CORPORATION  
CIVIL ENGINEERS  
19 S. BOWWELL STREET  
PALATINE, ILLINOIS 60067  
VOICE: 847-776-7200 FAX: 847-776-7239  
SETON PROJECT # 2002001-230

ILLINOIS DEPARTMENT OF TRANSPORTATION  
INTERCONNECT SCHEMATIC &  
SCHEDULE OF QUANTITIES  
U.S. RTE. 30 (LINCOLN HIGHWAY)  
FORD PLANT ENTRANCE TO WOODLAWN AVENUE

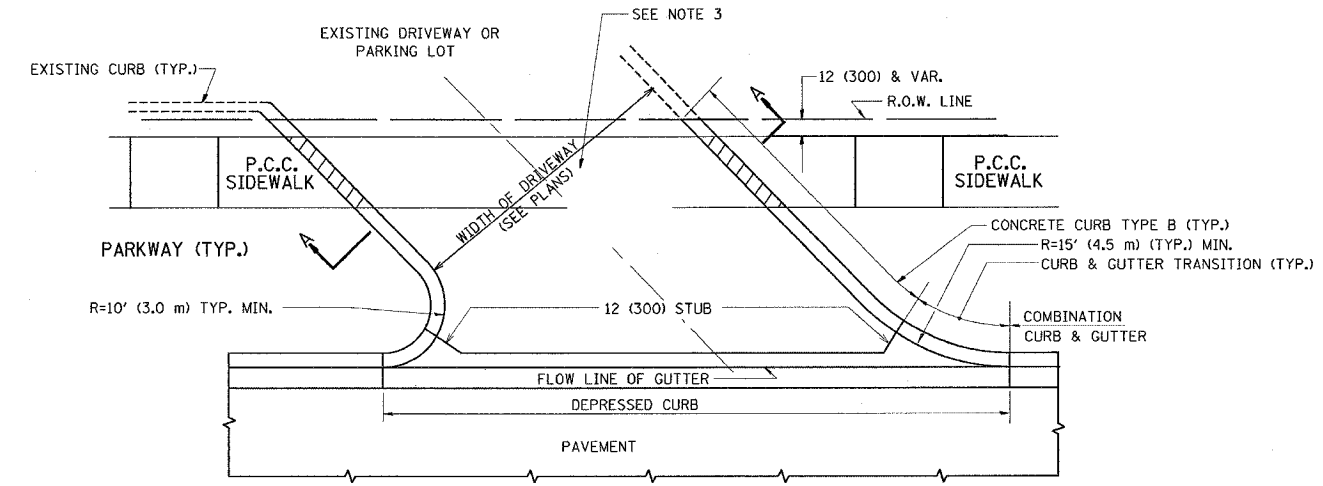
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DATE 08-01-2007  
DRAWN BY BR  
DESIGNED BY VO  
CHECKED BY JAC



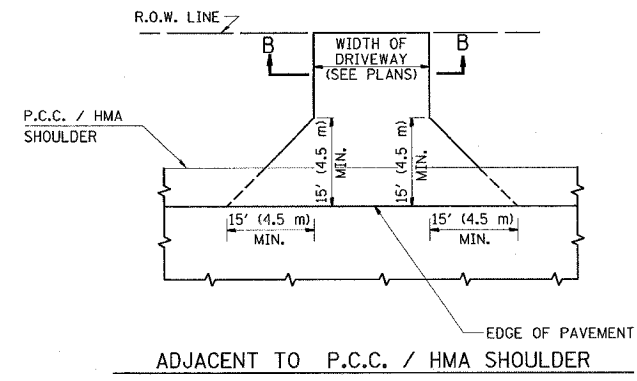
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	53
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



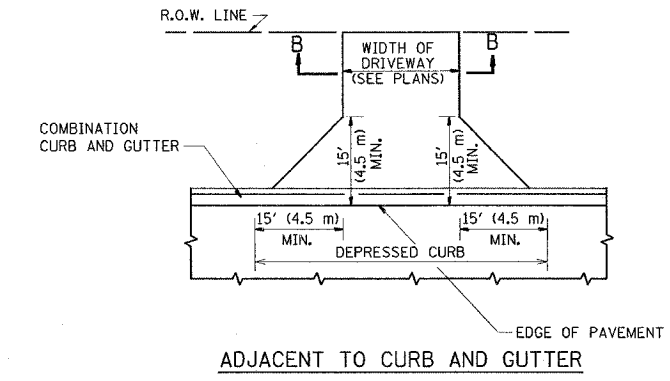
WITH CONCRETE CURB, TYPE B



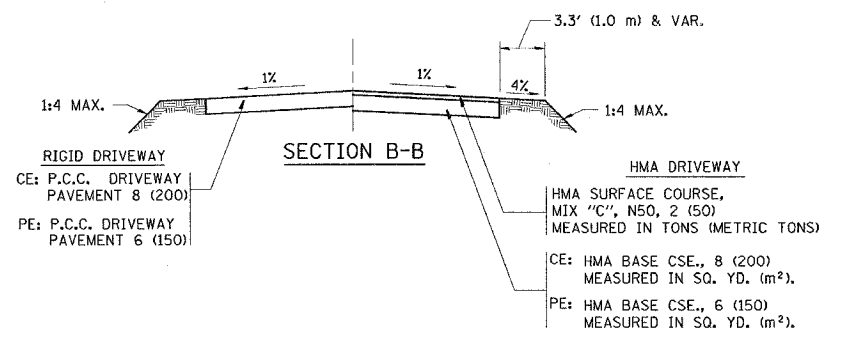
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



**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.

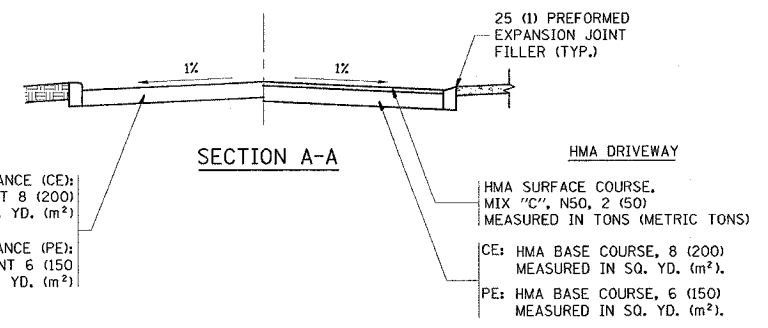
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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.



SECTION A-A

REVISIONS	
NAME	DATE
R. SHAH	11-04-95
J. POLLASTRINI	08-12-96
J. POLLASTRINI	12-14-96
A. ABBAS	03-21-97
T. HOLTZ	04-08-97
M. GOMEZ	04-06-01
P. LoFLEUR	04-15-03
R. BORO	01-01-07

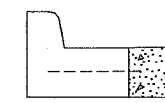
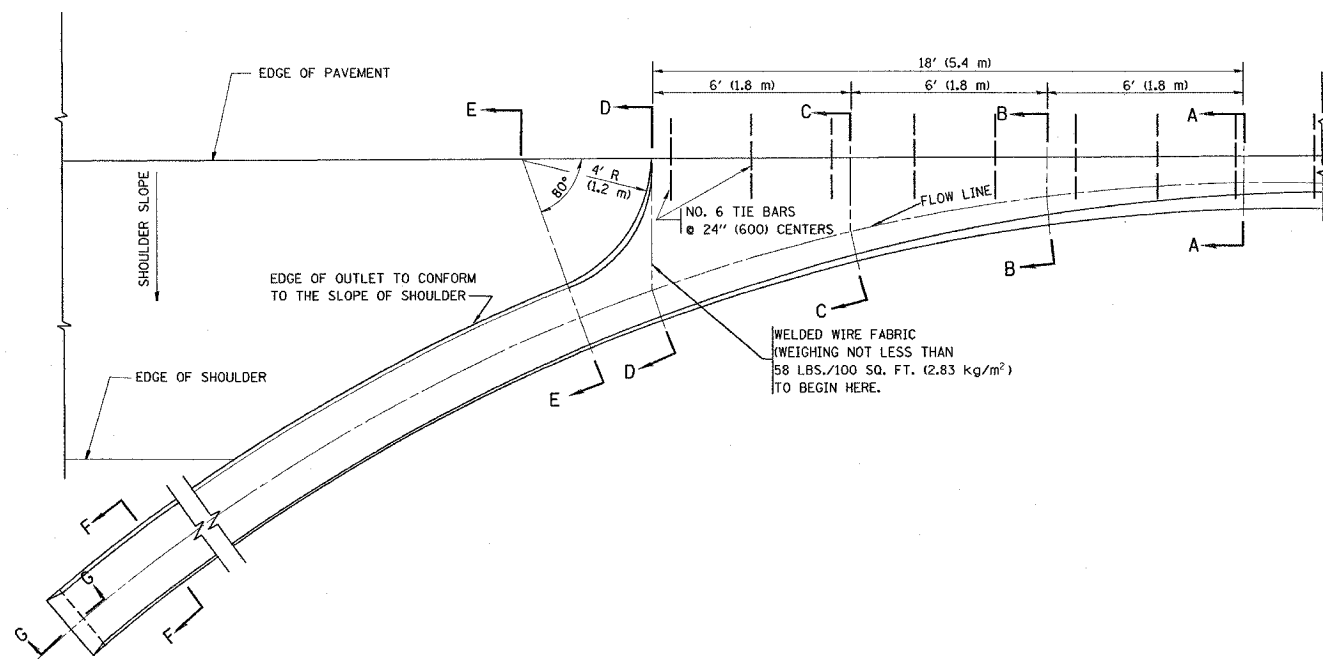
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE NOTED

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DRIVEWAY DETAILS**  
 DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)

SCALE: VERT. NONE  
 HORIZ. DRAWN BY  
 CHECKED BY

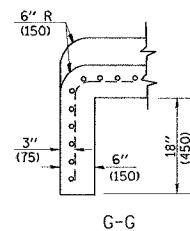
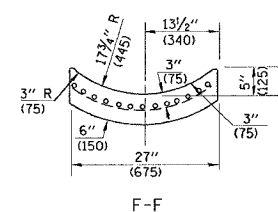
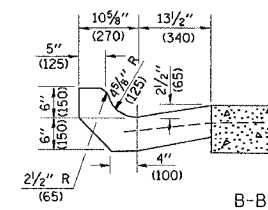
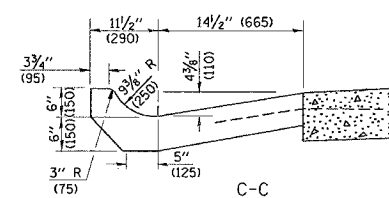
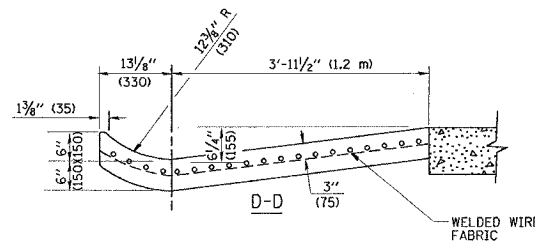
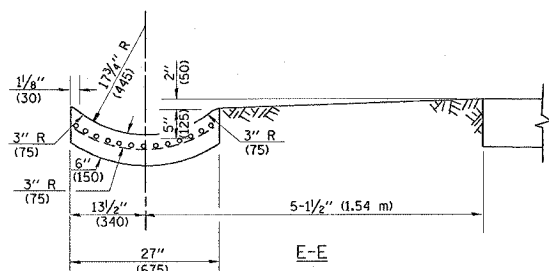
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 FILE NAME = \\saints\p\Users\mlg\desktop\62949 - Final Plans - District Standards\bd01.dgn  
 PLOT SCALE = 48,99999 / IN.  
 USER NAME = mlg\mlg

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	54
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



A-A \*

\* DIMENSIONS OF THE CURB & GUTTER AT SECTION A-A ARE SHOWN ON STATE STANDARD 606001. FOR DETAILS OF OUTLET FOR CONCRETE CURB & GUTTER, TYPE B-6.24 (B-15.60) SEE STATE STANDARD 606006.



**GENERAL NOTES**

GUTTER OUTLET SHALL BE TIED TO THE PAVEMENT IN ACCORDANCE WITH DETAILS FOR LONGITUDINAL CONSTRUCTION JOINT SHOWN ON STANDARD 420001.

TIE BARS SHALL BE NO. 20 (NO.6) AT 24" (600) CENTERS UNLESS OTHERWISE SHOWN.

IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE FROM SECTION A-A TO D-D EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' (1.8 m) FOR EACH 1% INCREASE IN GRADE.

**QUANTITIES**

FOR SECTION A-A TO E-E AND CURTAIN WALL= 1.25 CU. YDS. (0.96 m³) CLASS SI CONCRETE (OUTLET) FOR 9" (225) PAV'T. 1.27 CU. YDS. (0.96 m³) CLASS SI CONCRETE (OUTLET) FOR 10" (250) PAV'T.  
FOR SECTION F-F= 0.045 CU. YDS. (0.03 m³) CLASS SI CONCRETE PER FT. (M).

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

REVISIONS	
NAME	DATE
M. DE YONG	8/4/86
R. SHAH	09/09/94
R. SHAH	10/25/94
E. GOMEZ	12/21/00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**OUTLET FOR CONCRETE CURB AND GUTTER**

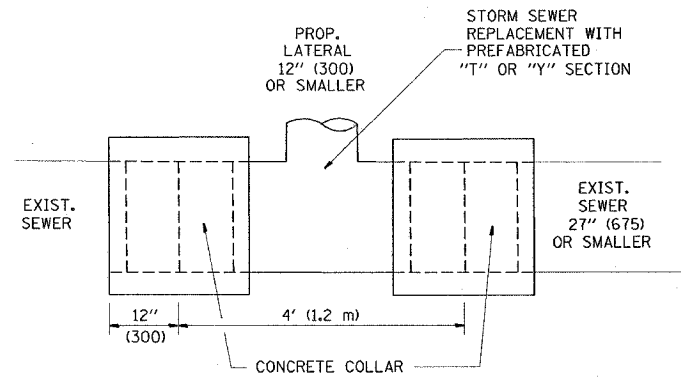
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HORIZ.

DRAWN BY  
CHECKED BY

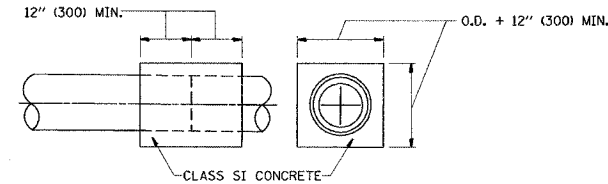
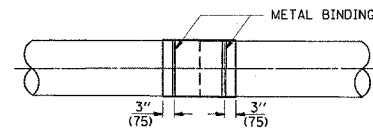
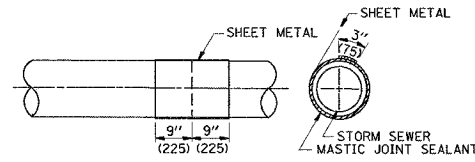
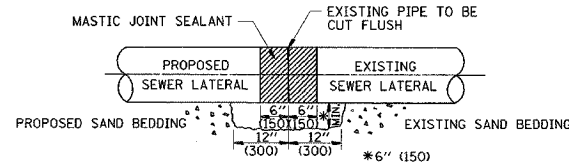
BD600-01 (BD-03)

PLOT DATE = 10/29/2007  
FILE NAME = \\vdslst1st2\Users\wilgreen\p\62949 - Final Plans - District Standards\bd63.dgn  
PLOT SCALE = 48,98999 / 1 IN.  
USER NAME = wilgreen

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	55
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



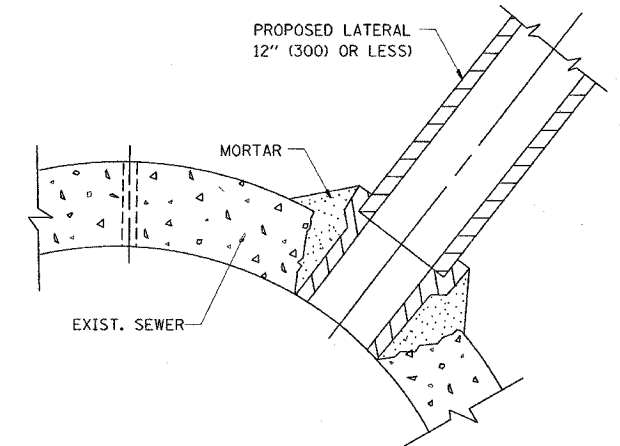
**DETAIL "A"**  
LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER



**DETAIL "B"**  
CLASS SI CONCRETE COLLAR

**CONSTRUCTION SEQUENCE**

- CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
- APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
- BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
- WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
- PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT Oozes OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- PLACE CLASS SI CONCRETE AROUND THE JOINT.



**DETAIL "C"**  
PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

**NOTES**

**MATERIAL**

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

**CONSTRUCTION METHODS**

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
  - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
  - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

**GENERAL**

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

**BASIS OF PAYMENT**

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS, THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

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

REVISIONS	
NAME	DATE
M. DE YONG	07/25/90
M. DE YONG	02/05/92
M. DE YONG	05/08/92
R. SHAH	09/09/94
R. SHAH	10/25/94
R. SHAH	06/12/96

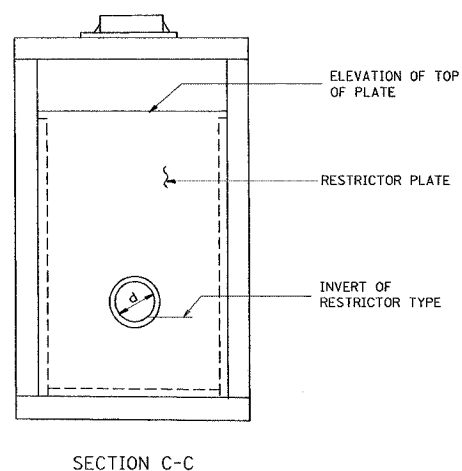
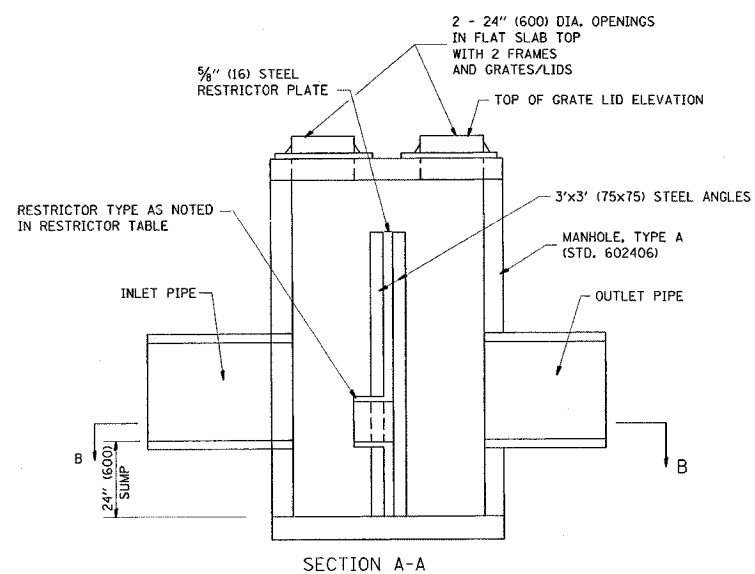
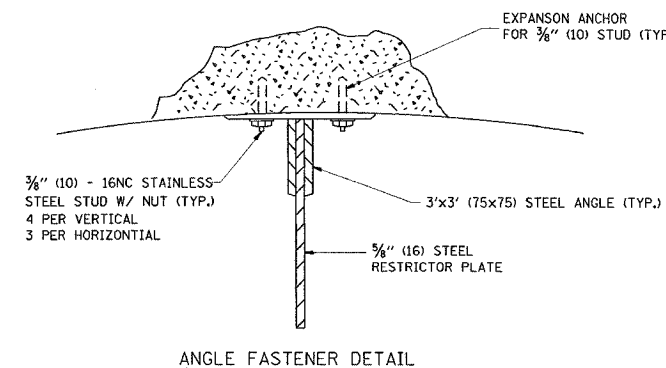
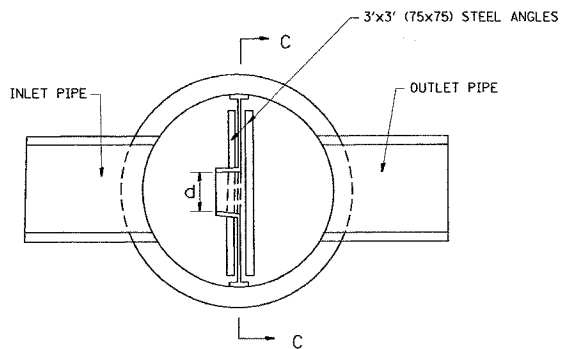
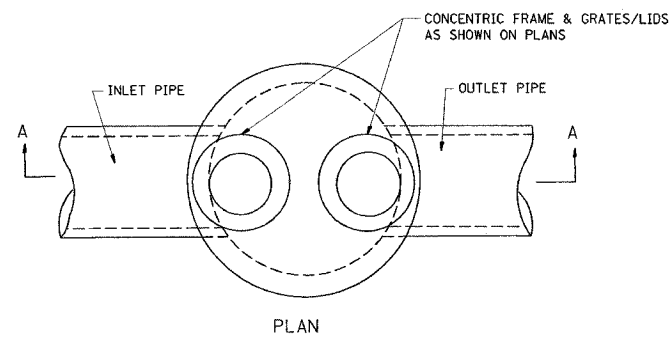
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER**

SCALE: VERT. NONE  
HORIZ.

DRAWN BY  
CHECKED BY

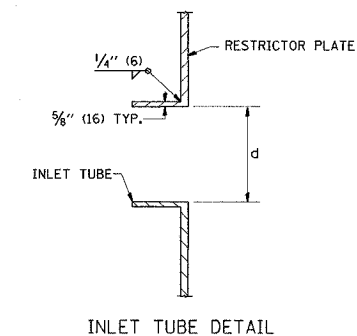
BD500-01 (BD-7)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	56
STA. TO STA.				
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT	

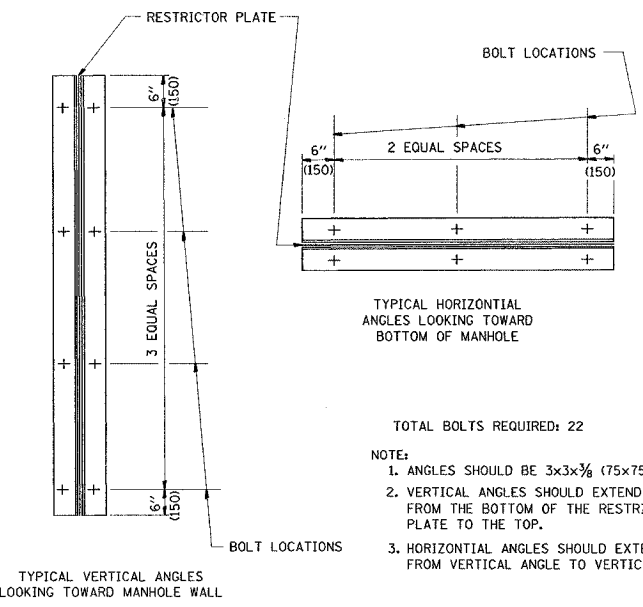


NOTES:

1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH



STATION	MANHOLE DIAMETER	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER in. (mm) (d)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW



TOTAL BOLTS REQUIRED: 22

NOTE:

1. ANGLES SHOULD BE 3x3x3/8 (75x75x75)
2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

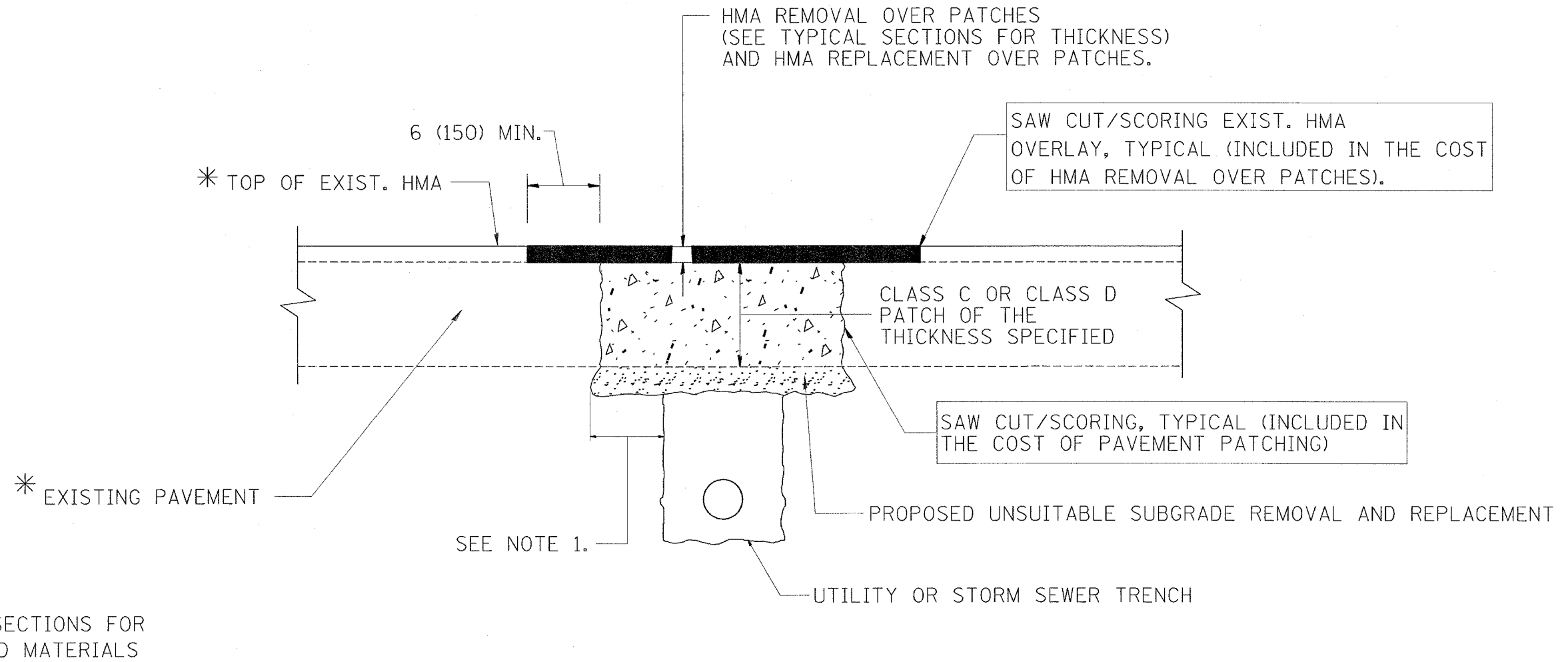
VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
R. SHAH	09/09/94	<b>MANHOLE WITH RESTRICTOR PLATE</b>
R. SHAH	10/25/94	
E. GOMEZ	08/28/00	
M. GOMEZ	01/08/01	
		SCALE: VERT. NONE HORIZ.
		DRAWN BY CHECKED BY

PLOT DATE = 10/25/2007  
 FILE NAME = \\distintf2\users\wlgreenep\desktop\62949 - Final Plans - District Standards\bd2.dgn  
 PLOT SCALE = 3/8"=1'-0"  
 USER NAME = wlgreenep



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	57
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



**NOTES:**

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

**SEQUENCE OF CONSTRUCTION**

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/14/95
R. SHAH	03/23/95
R. SHAH	04/24/95
A. HOUSEH	03/15/96
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98
R. BORO	01/01/07
R. BORO	09/04/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

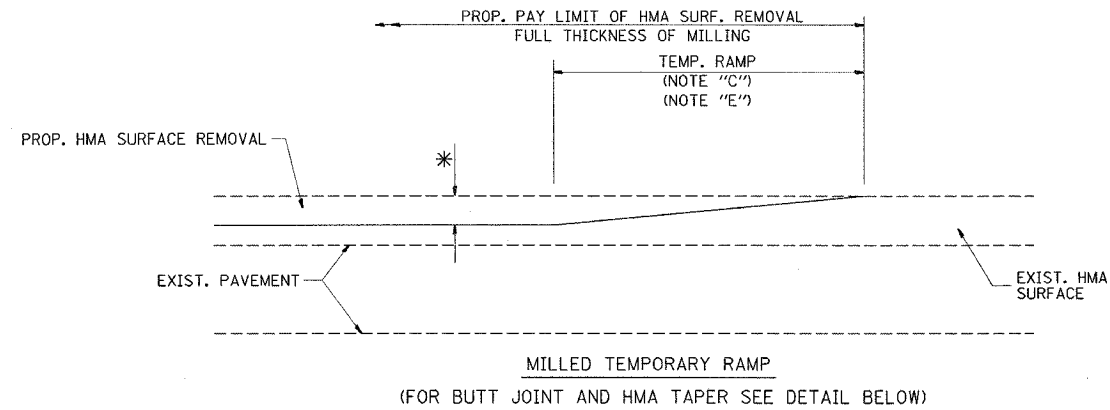
**PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT**

SCALE: VERT. NONE  
HORIZ. NONE

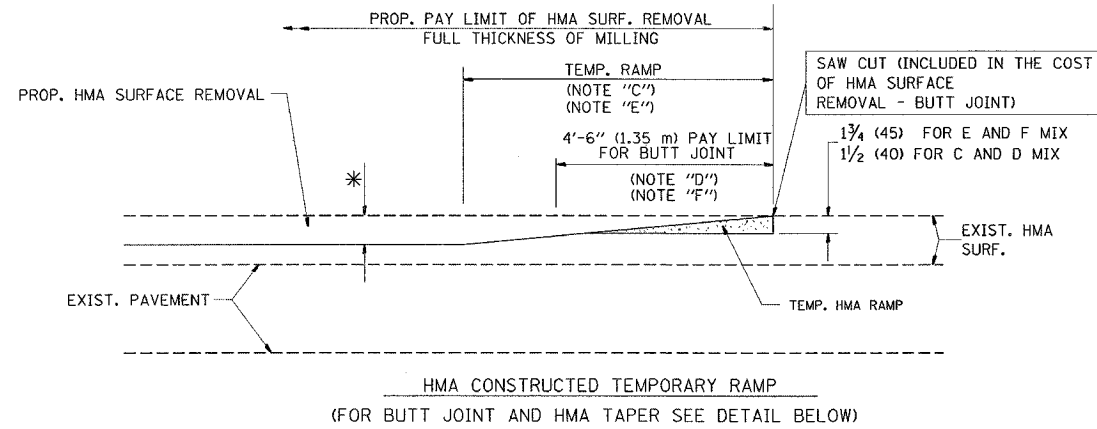
DRAWN BY  
CHECKED BY

BD400-04 (BD-22)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

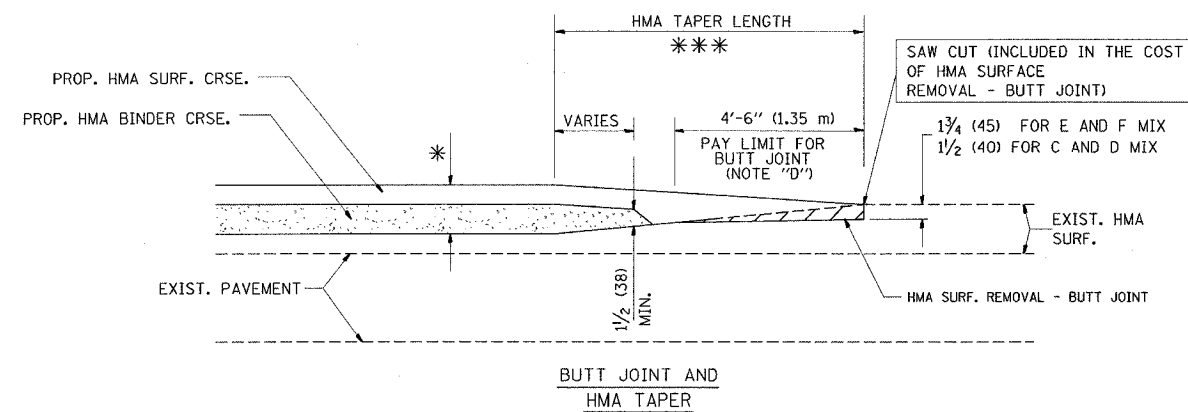


OPTION 1

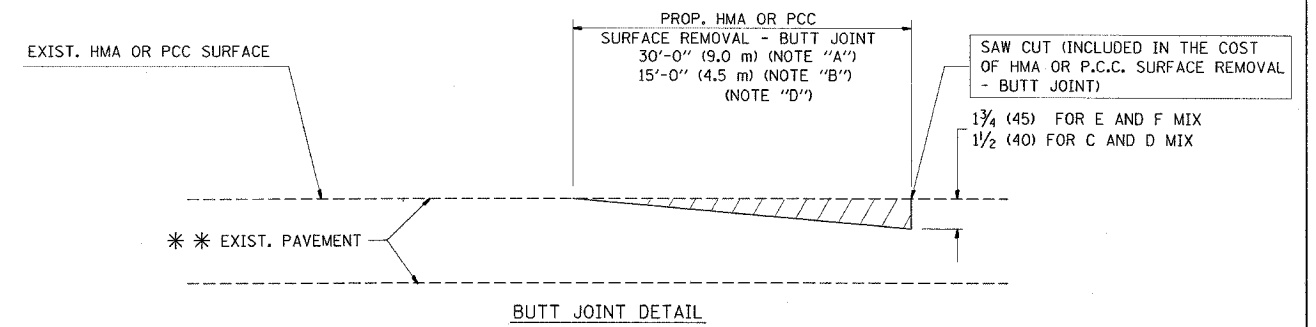


OPTION 2

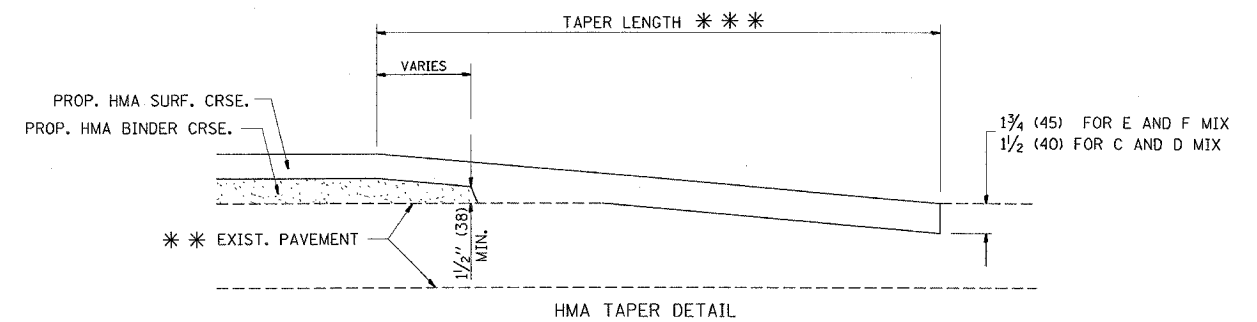
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

\*\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

\* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

\*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

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

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION

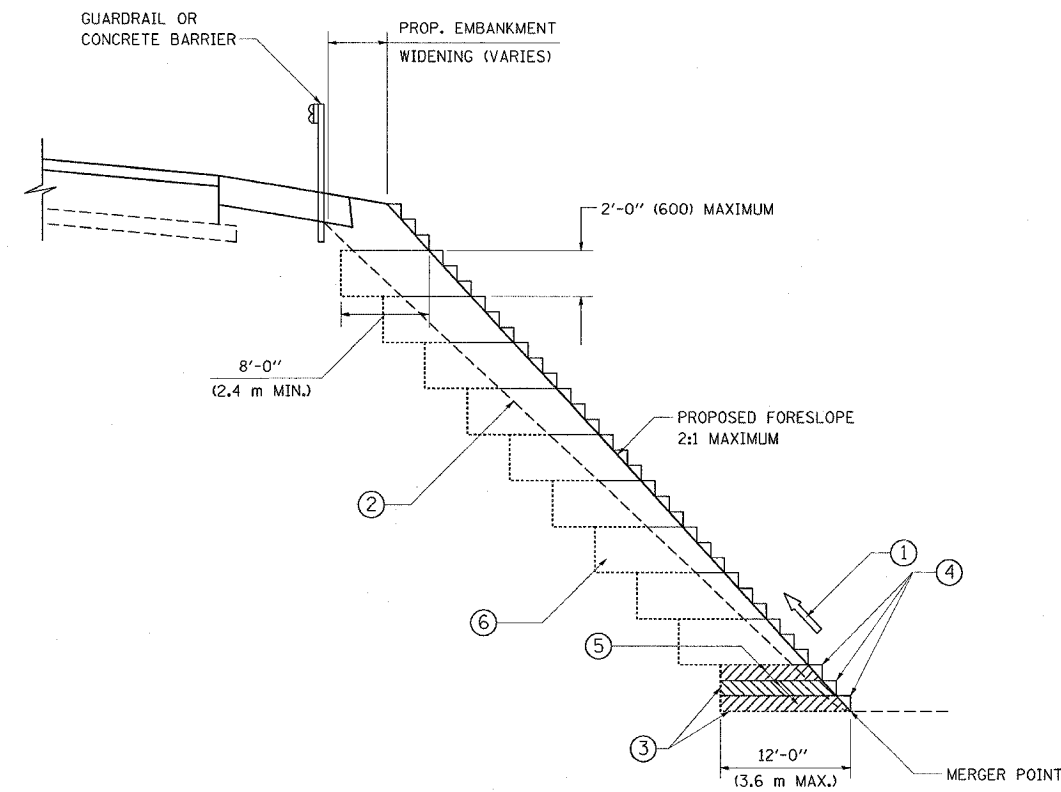
BUTT JOINT AND HMA TAPER DETAILS

SCALE: VERT. NONE  
HORIZ. NONE

DRAWN BY  
CHECKED BY

BD400-05 (VI-BD32)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	59
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



TYPICAL BENCHING DETAIL FOR EMBANKMENT

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

REVISIONS	
NAME	DATE
	06/16/04

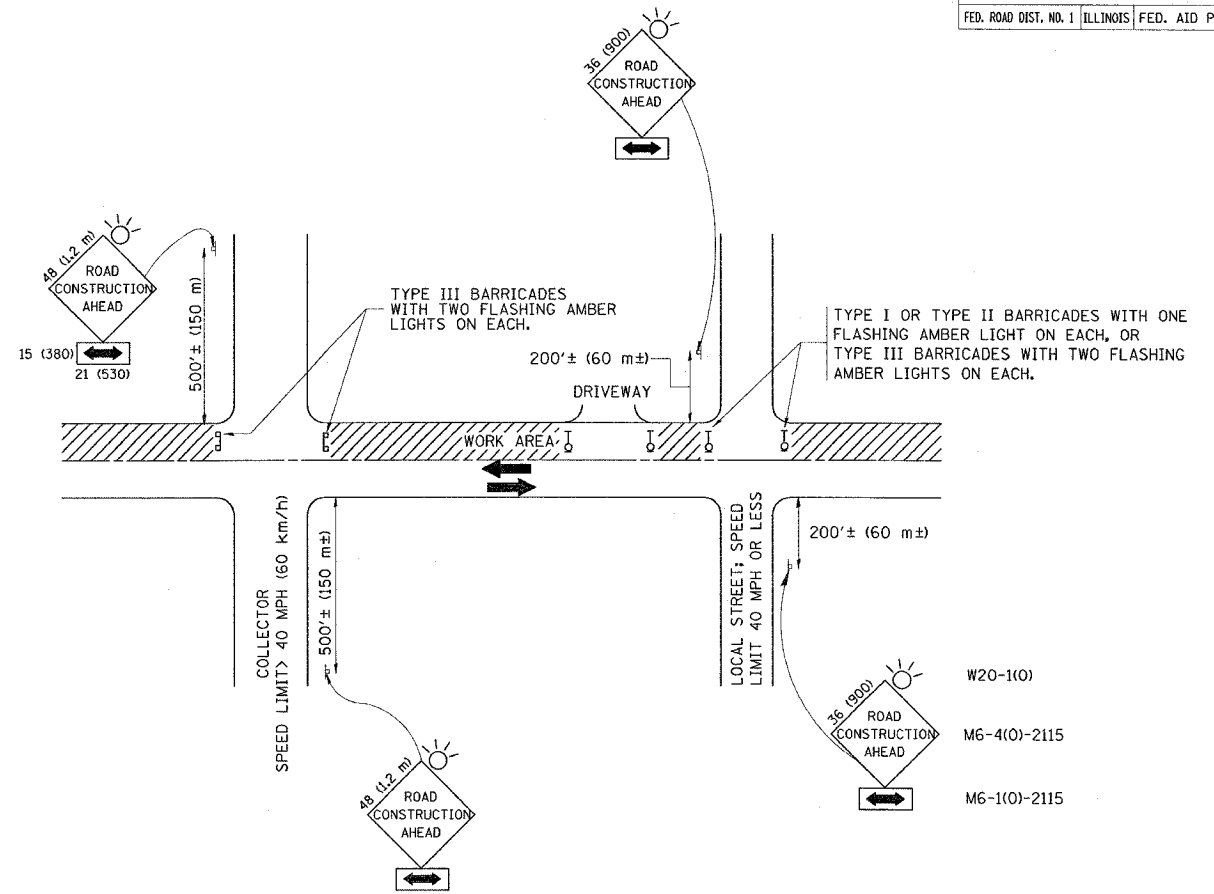
ILLINOIS DEPARTMENT OF TRANSPORTATION

BENCHING DETAIL FOR EMBANKMENT WIDENING

SCALE: VERT. NONE  
HORIZ.

DRAWN BY: CADD  
CHECKED BY: S.E.B.  
BD-51

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	60
STA.		TO STA.		
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
- 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:
    - 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.
    - 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.
  - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - 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.
    - 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.

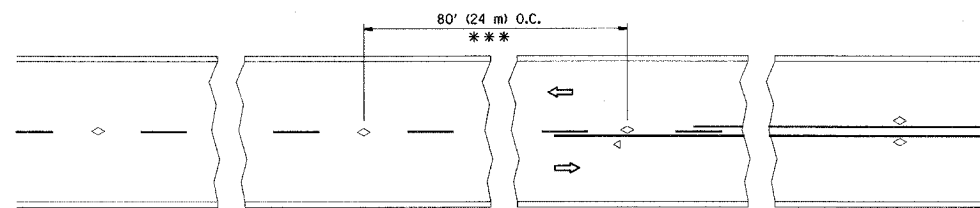
REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

SCALE: NONE

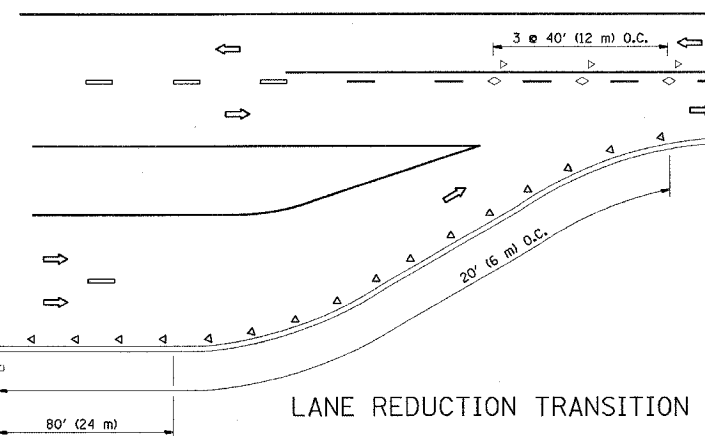
DRAWN BY  
 CHECKED BY  
 TC-10

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

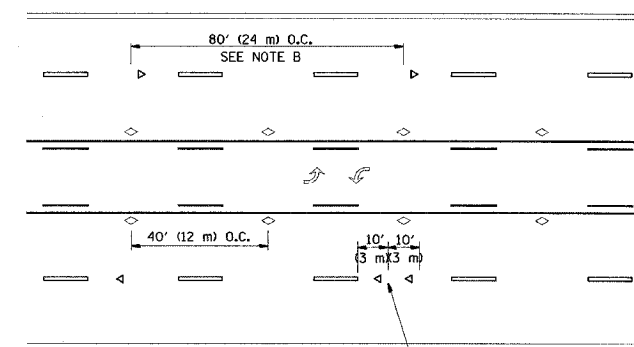


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

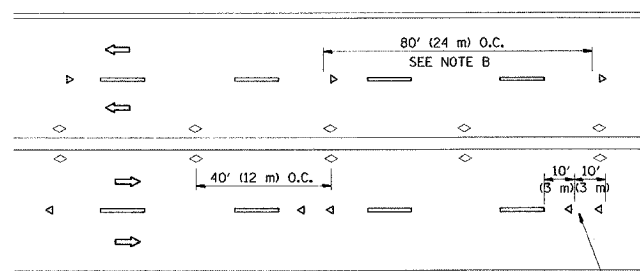
TWO-LANE/TWO-WAY



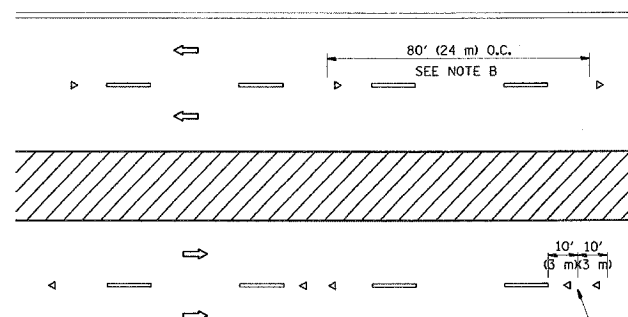
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ◁ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◊ TWO-WAY AMBER MARKER

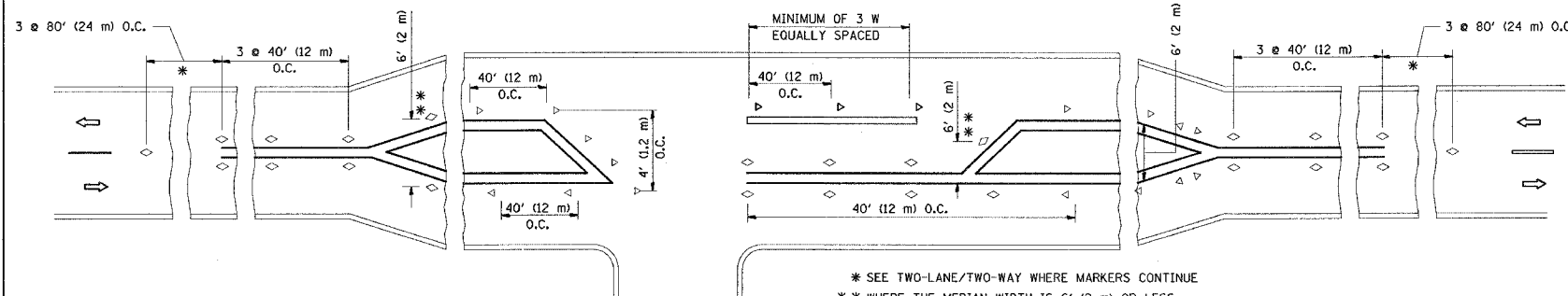
LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

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



LEFT TURN

\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

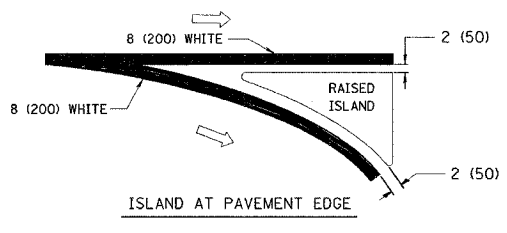
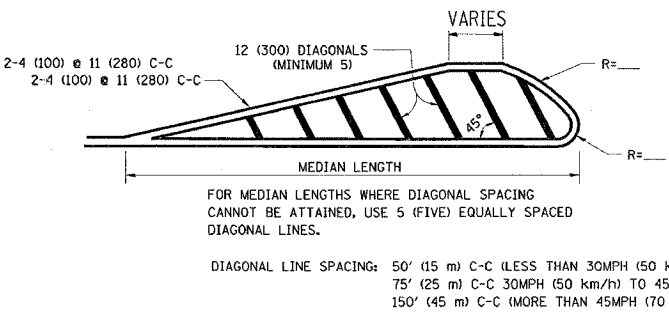
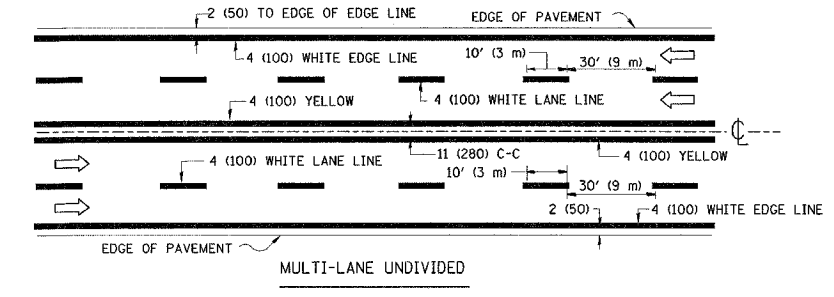
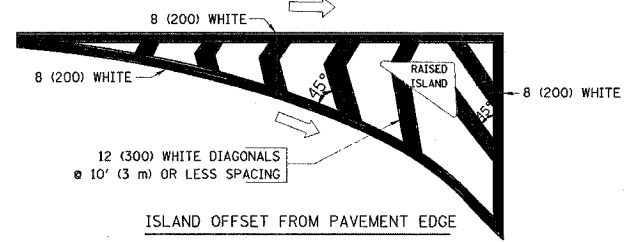
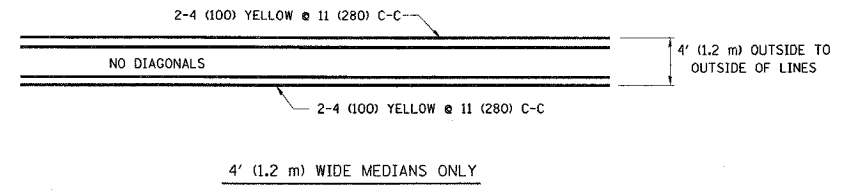
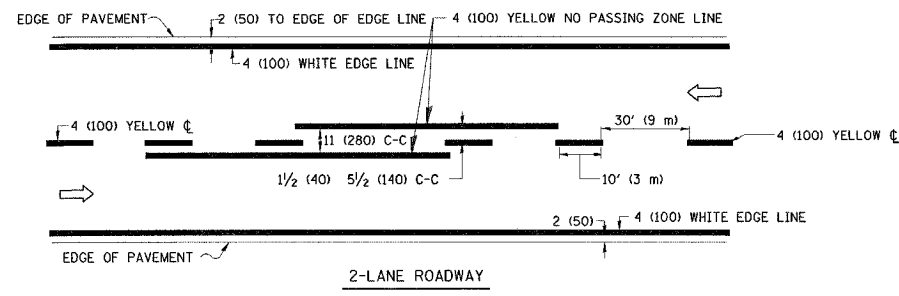
REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT  
 MARKERS (SNOW-PLOW RESISTANT)

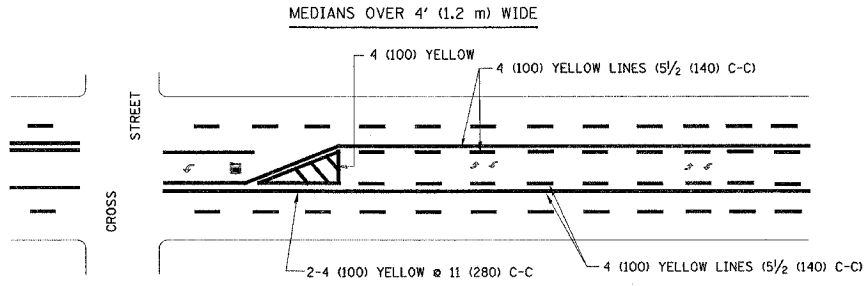
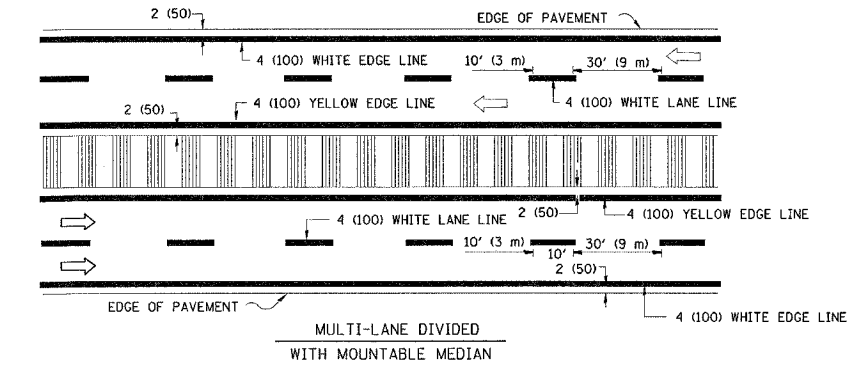
SCALE: NONE

DRAWN BY CADD  
 CHECKED BY  
 TC-11

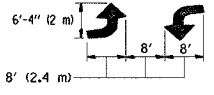
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	62
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



TYPICAL ISLAND MARKING



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN 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	5/2 (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 5/2 (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 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.
GORE 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 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 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
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.

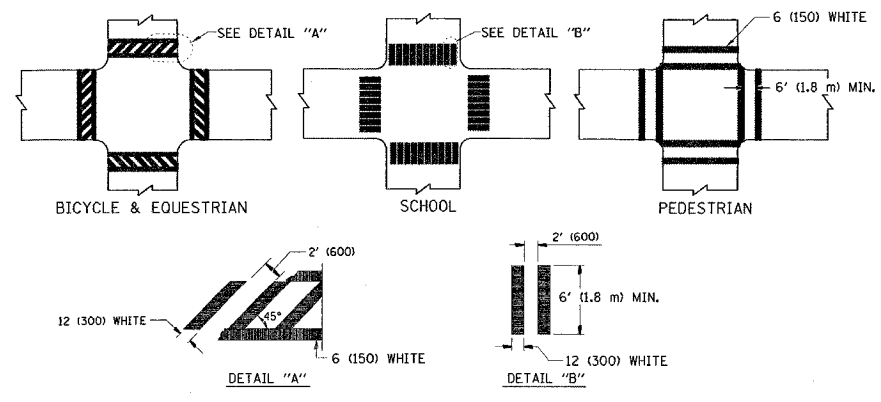
REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
DISTRICT ONE  
TYPICAL PAVEMENT MARKINGS

SCALE: NONE  
DRAWN BY CADD  
CHECKED BY  
TC-13

PLOT DATE = 10/29/2007  
FILE NAME = \\naslinef2\users\algren\p\checktop\62949 - Final Plans - District Standards\vol3.dgn  
PLOT SCALE = 3/8"=1'-0"  
USER NAME = algren

TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

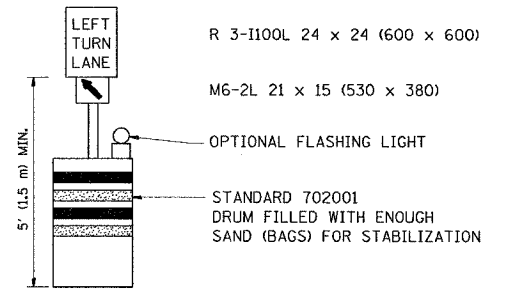
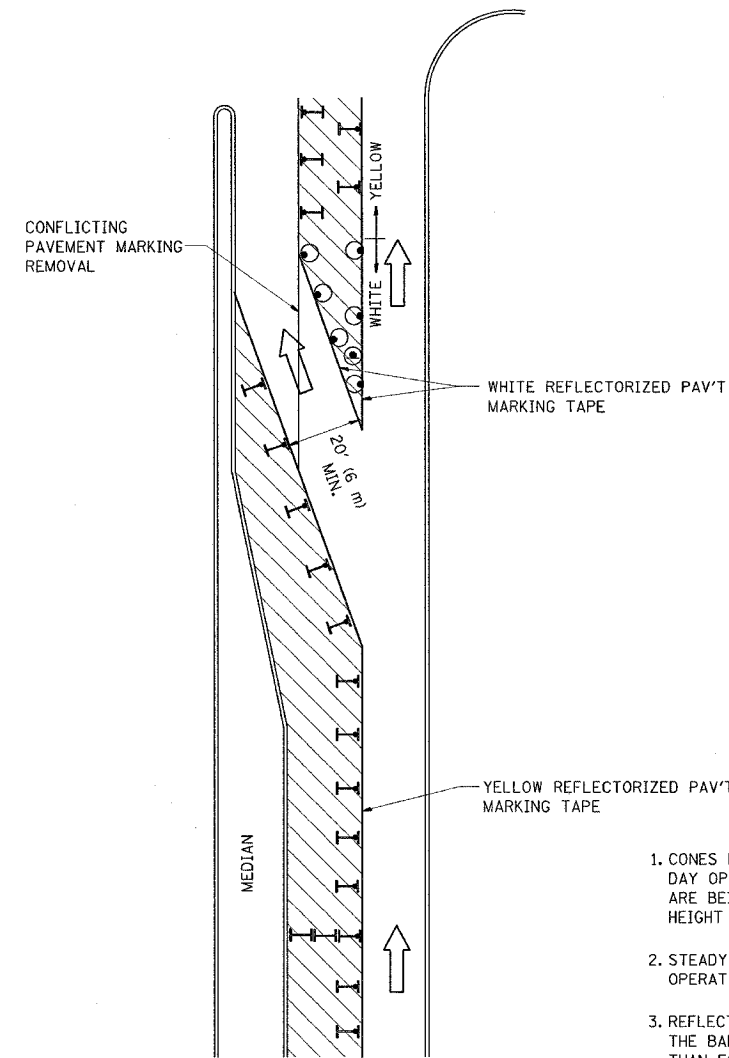
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m²) ; AREA = 20.8 SQ. FT. (1.9 m²)

\* 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

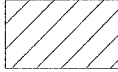





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	63
STA.		TO STA.		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



**GENERAL NOTES**

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM BT 725 IS REQUIRED.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

**LEGEND**

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09/08/94
A. HOUSEH	11/07/95
A. HOUSEH	10/12/96
T. RAMMACHER	01/06/00

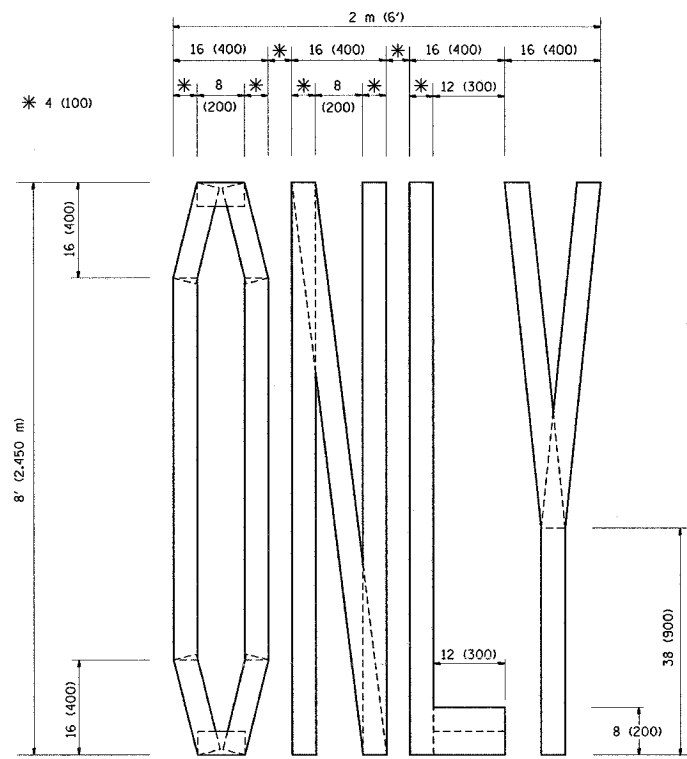
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL AND PROTECTION  
 AT TURN BAYS  
 (TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE

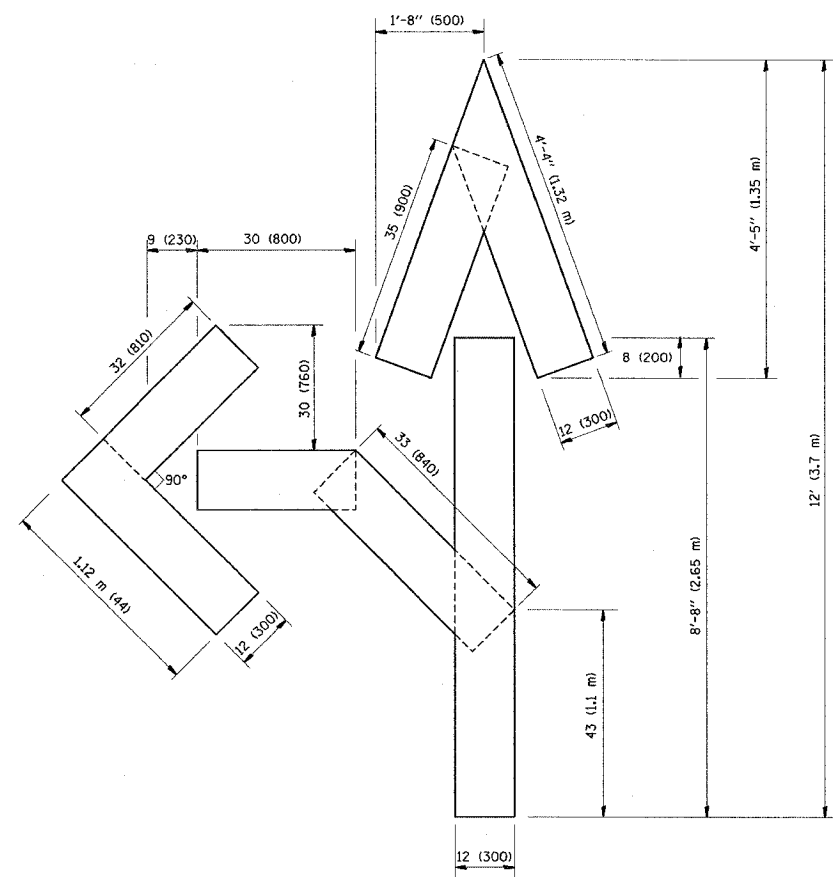
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 CHECKED BY LHA

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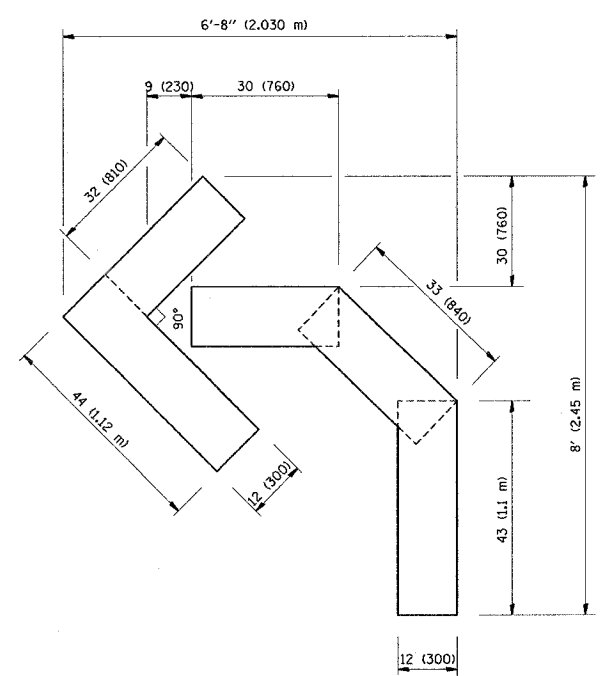
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	64
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



QUANTITY  
 4 (100) LINE = 64.1 ft. (19.7 m)  
 21.1 sq. ft. (1.97 sq. m)



QUANTITY  
 4 (100) LINE = 82.5 ft. (25.3 m)  
 27.5 sq. ft. (2.53 sq. m)



QUANTITY  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.39 sq. m)

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

REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING  
 LETTERS AND SYMBOLS  
 FOR TRAFFIC STAGING

SCALE: NONE

DRAWN BY CADD

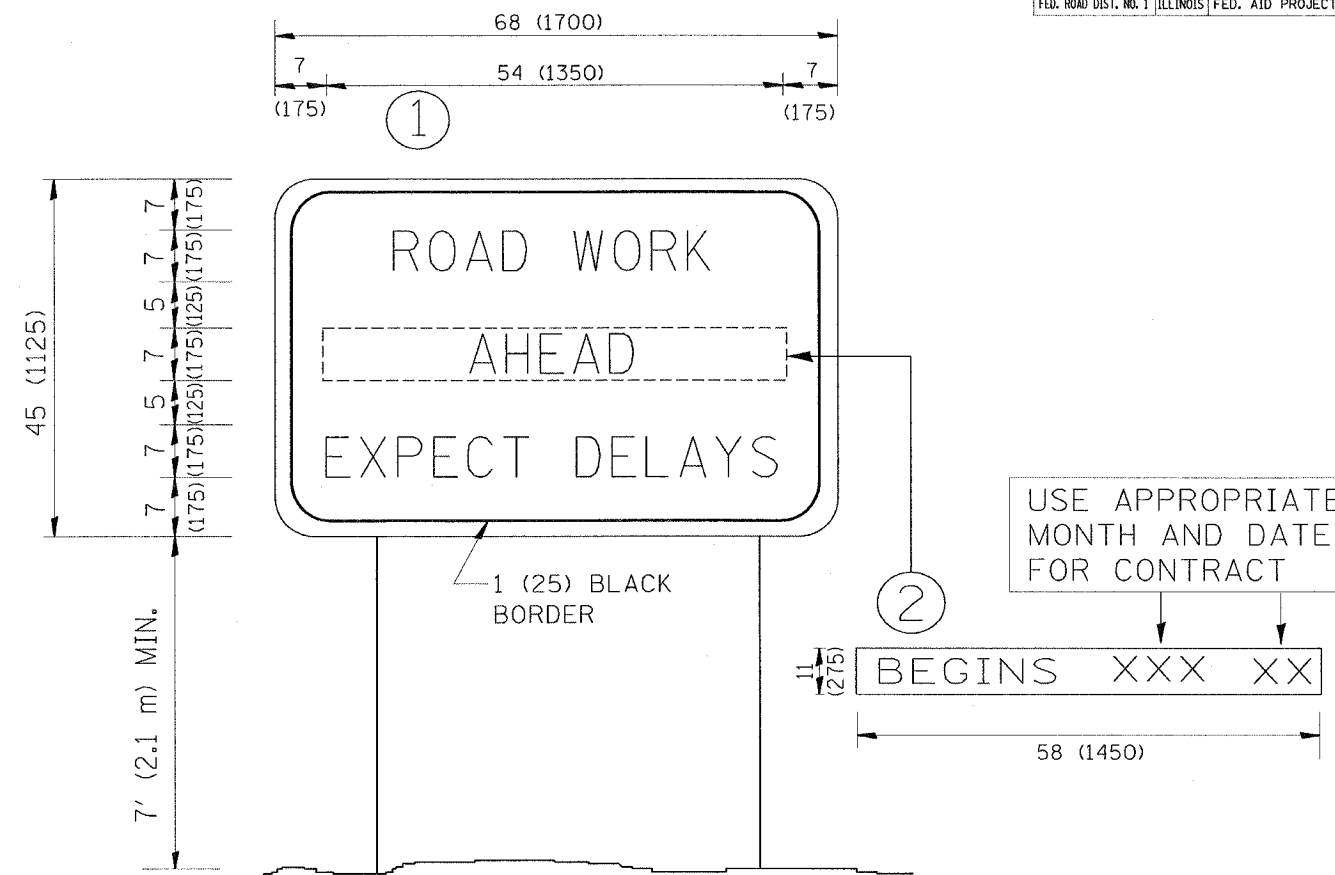
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TC-16

PLOT DATE = 10/29/2007  
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 PLOT SCALE = 49.9999 / IN.  
 USER NAME = wlgrndp



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	65
STA.		TO STA.		
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.

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99
C. JUCCIUS	1-31-07

ILLINOIS DEPARTMENT OF TRANSPORTATION

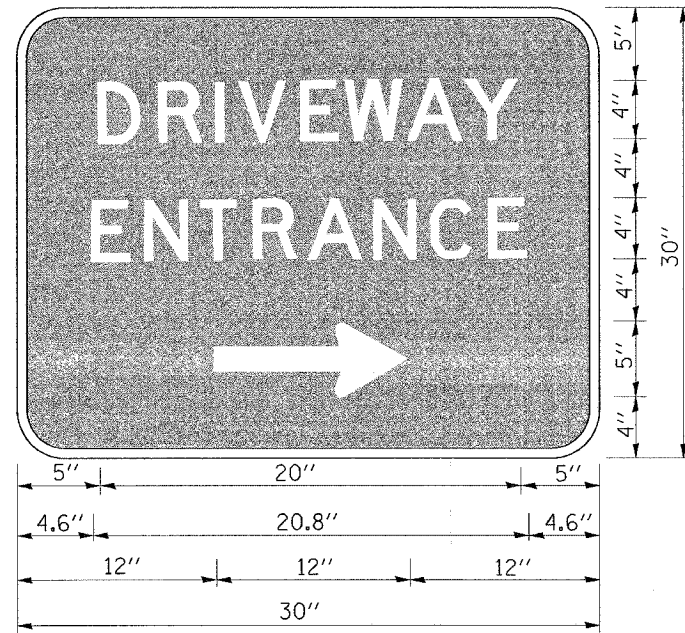
ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE

DRAWN BY DESIGN

CHECKED BY  
TC22

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	65A
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

**NOTES:**

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

PLOT DATE = 10/20/2007  
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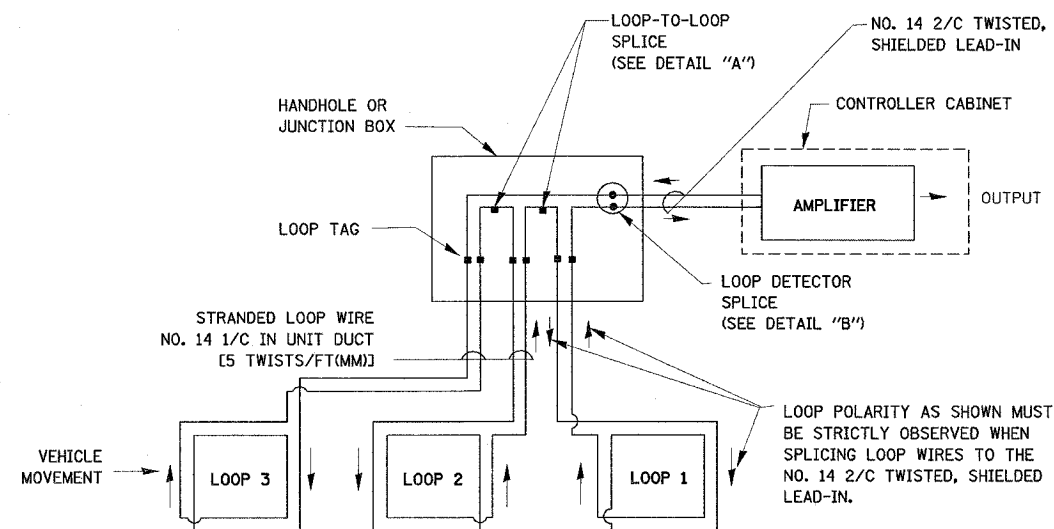
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
C. JUXTUS	02/15/07	<b>DRIVEWAY ENTRANCE SIGNING</b>

SCALE: NONE  
DATE  
DRAWN BY R.H.  
CHECKED BY  
TC-26

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	66
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

**LOOP DETECTOR NOTES**

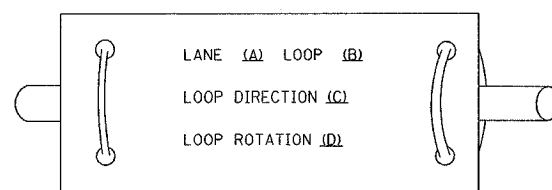
1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED 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 DIVESHOLES 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.



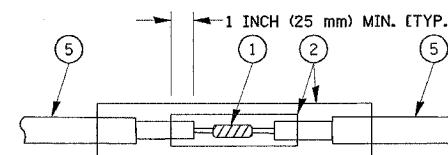
**DETECTOR LOOP WIRING SCHEMATIC**

- 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.

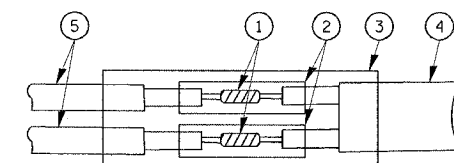
**LOOP LEAD-IN CABLE TAG**



- 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**

**LOOP DETECTOR SPLICE**

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- 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.

REVISIONS	
NAME	DATE
CADD	5/30/00
ADD NOTE NO. 8	11/12/01
BUREAU OF TRAFFIC	1-01-02

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DISTRICT ONE  
STANDARD TRAFFIC SIGNAL  
DESIGN DETAILS**

SCALE: NONE

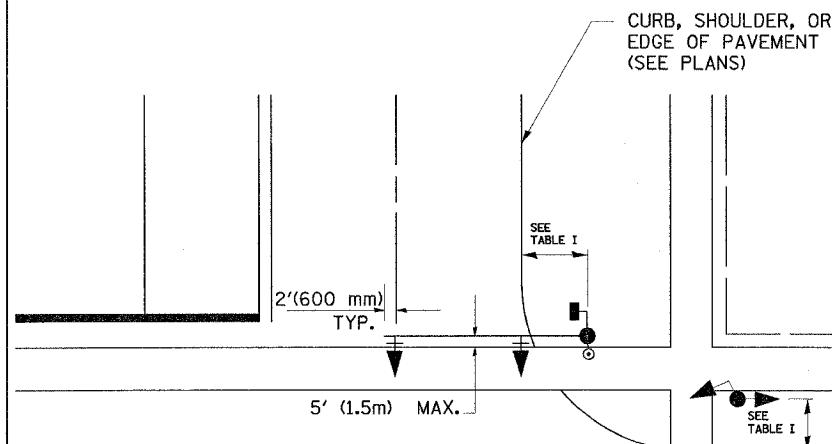
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DESIGNED BY: DAZ  
CHECKED BY: DAZ  
SHEET 1 OF 4

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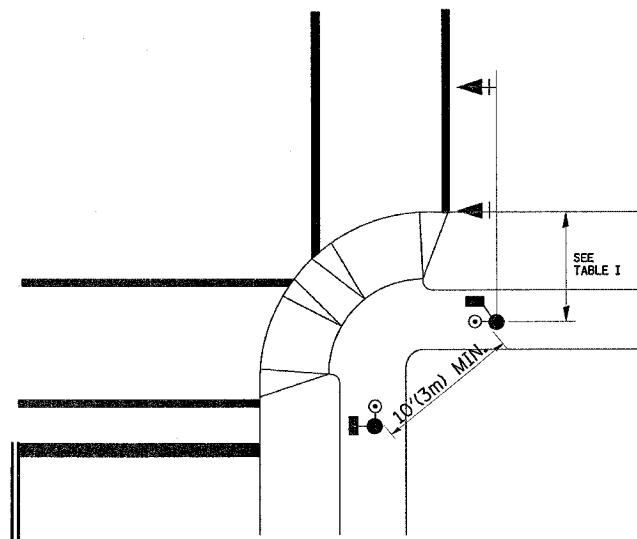
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	67
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

**TRAFFIC SIGNAL MAST ARM AND POST**

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



**PEDESTRIAN SIGNAL PUSHBUTTON**



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

**NOTES:**

- AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.  
  
AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.  
  
PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:  
  - A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
  - B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
  - C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
  - D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
  - E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

**PEDESTRIAN SIGNAL POST**

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

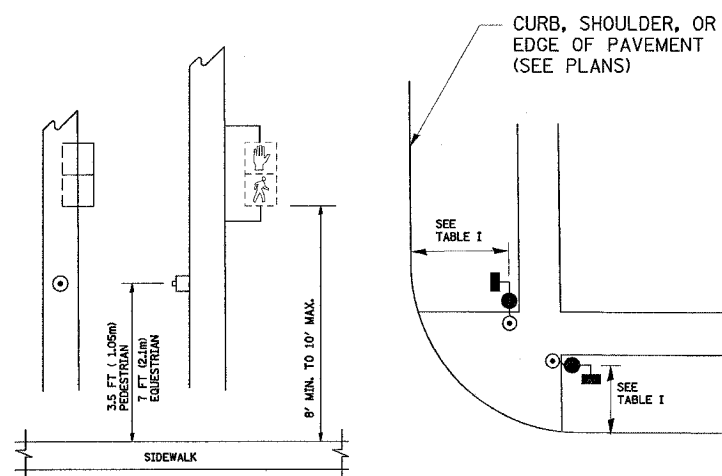


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

REVISIONS	
NAME	DATE
BUREAU OF TRAFFIC	1/01/02

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1  
STANDARD TRAFFIC SIGNAL  
DESIGN DETAILS

SCALE: NONE

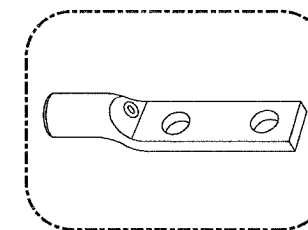
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DESIGNED BY: DAD  
CHECKED BY: DAZ  
SHEET 2 OF 4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	68
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	

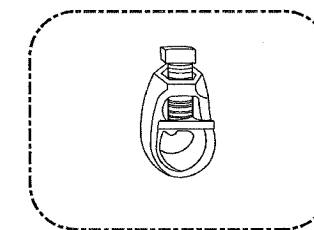
NOTES:

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.



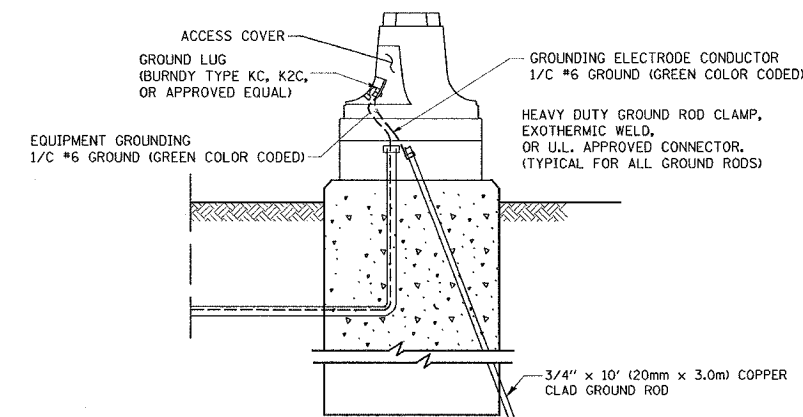
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

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.



MAST ARM POLE / POST-GROUNDING DETAIL

(NOT TO SCALE)

REVISIONS		
NAME	DATE	
CADD	5/30/00	
CADD	3/15/01	
BUREAU OF TRAFFIC	1/01/02	

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE  
STANDARD TRAFFIC SIGNAL  
DESIGN DETAILS

SCALE: NONE

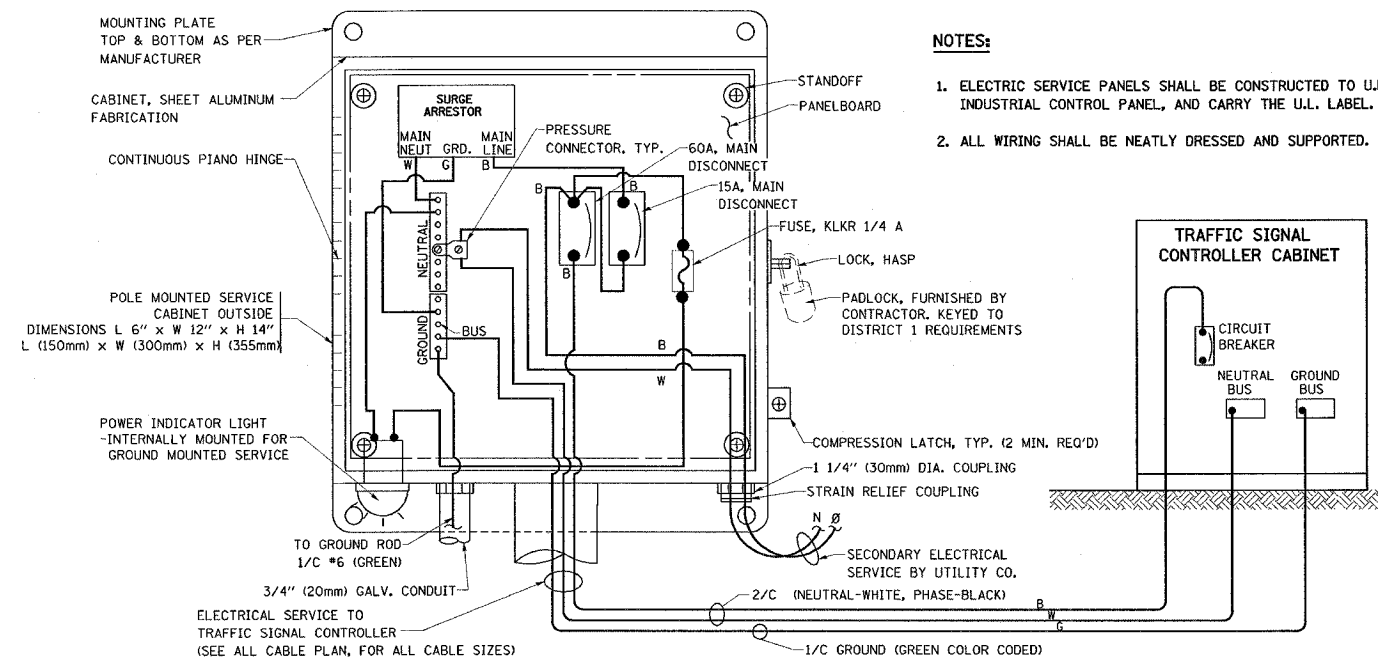
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DESIGNED BY: DAD  
CHECKED BY: DAZ

SHEET 3 OF 4

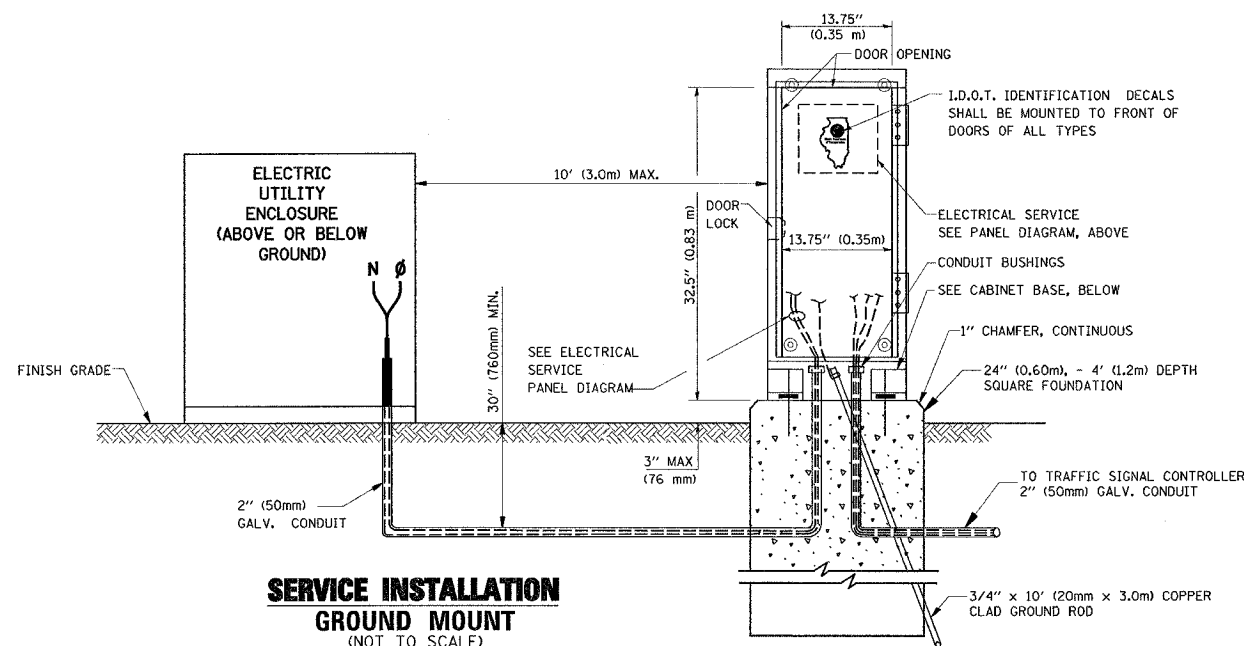
TS05

NOTES:

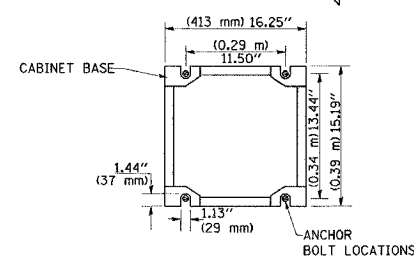
1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.



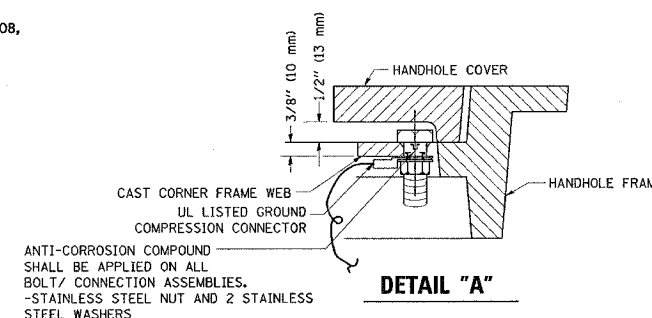
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)  
SERVICE INSTALLATION POLE MOUNT (SHOWN)  
(NOT TO SCALE)



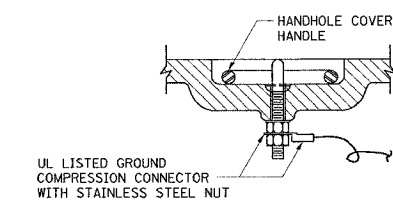
SERVICE INSTALLATION  
GROUND MOUNT  
(NOT TO SCALE)



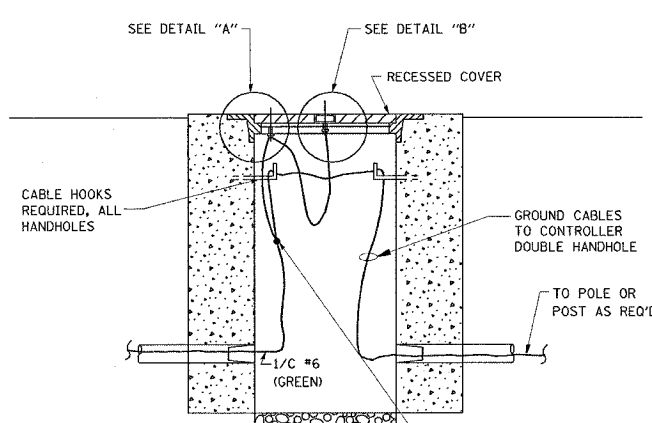
CABINET - BASE BOLT PATTERN  
(NOT TO SCALE)



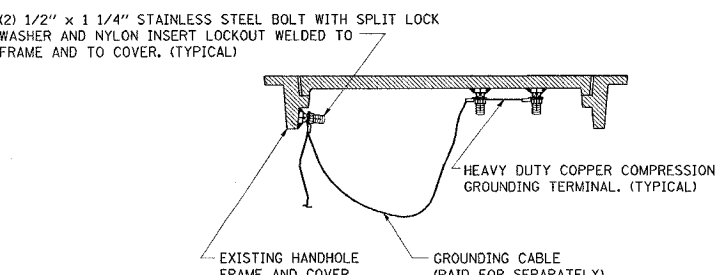
DETAIL "A"



DETAIL "B"



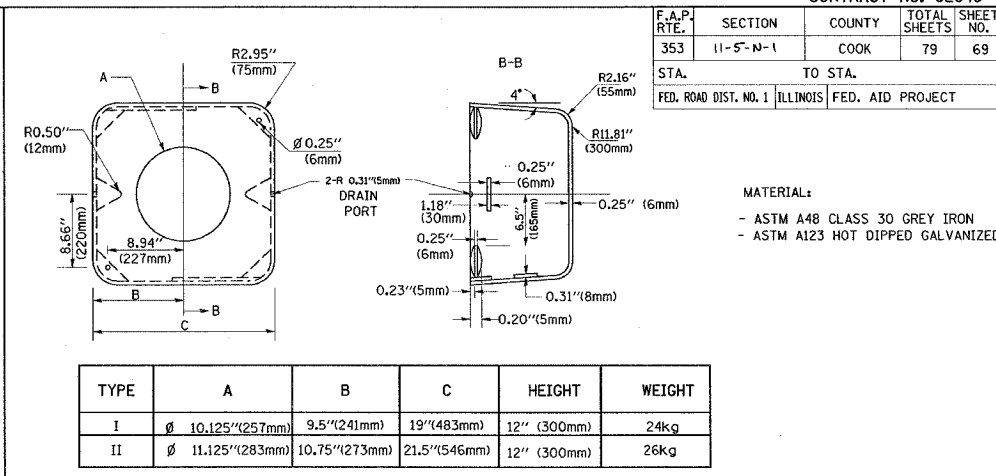
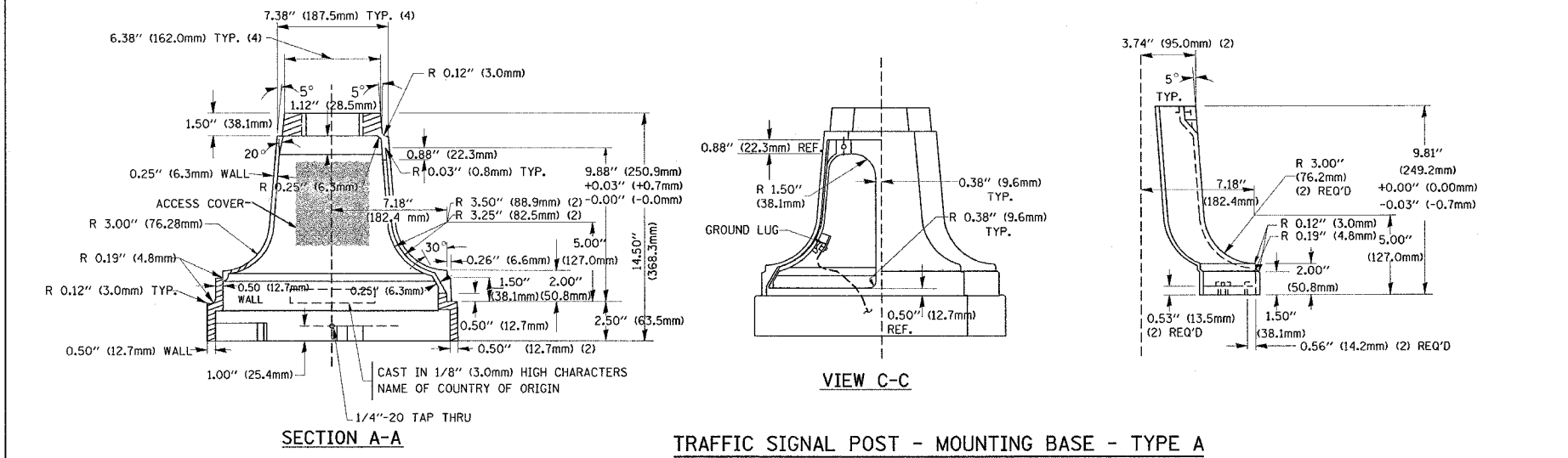
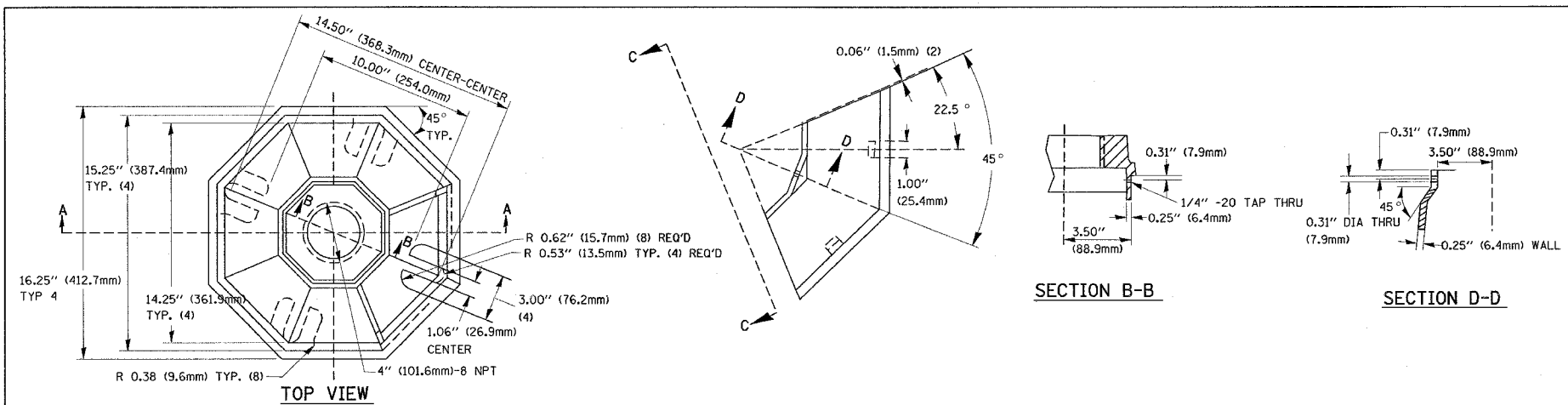
HANDHOLE COVER & FRAME - GROUNDING DETAIL  
(NOT TO SCALE)



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

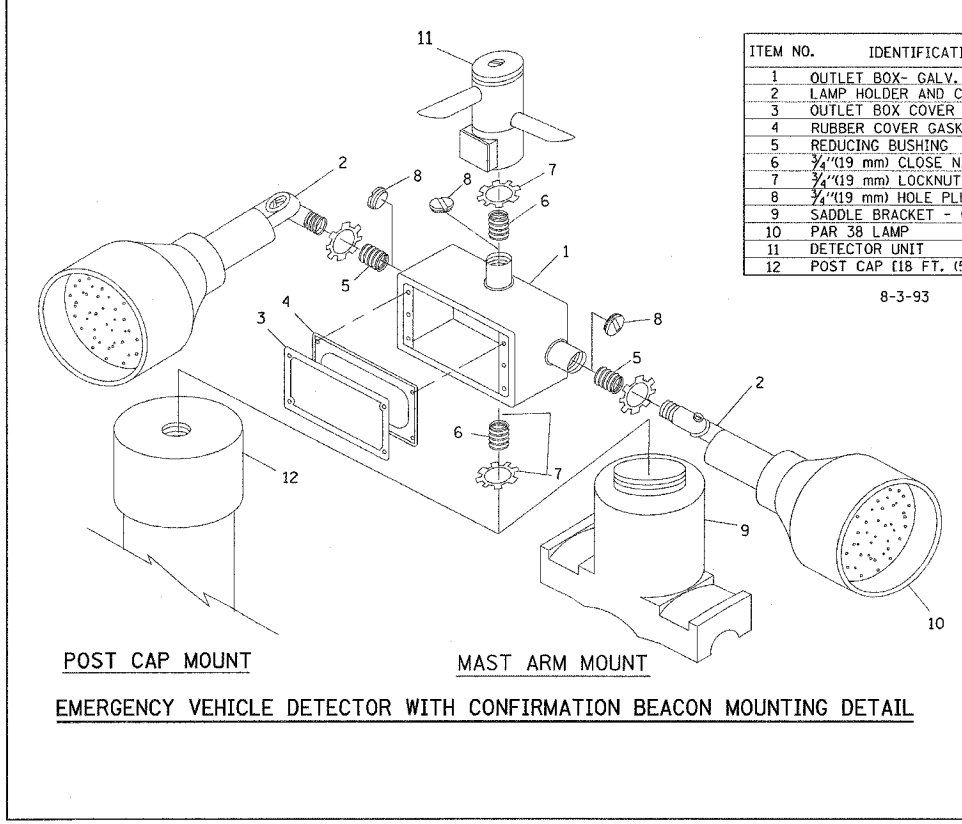
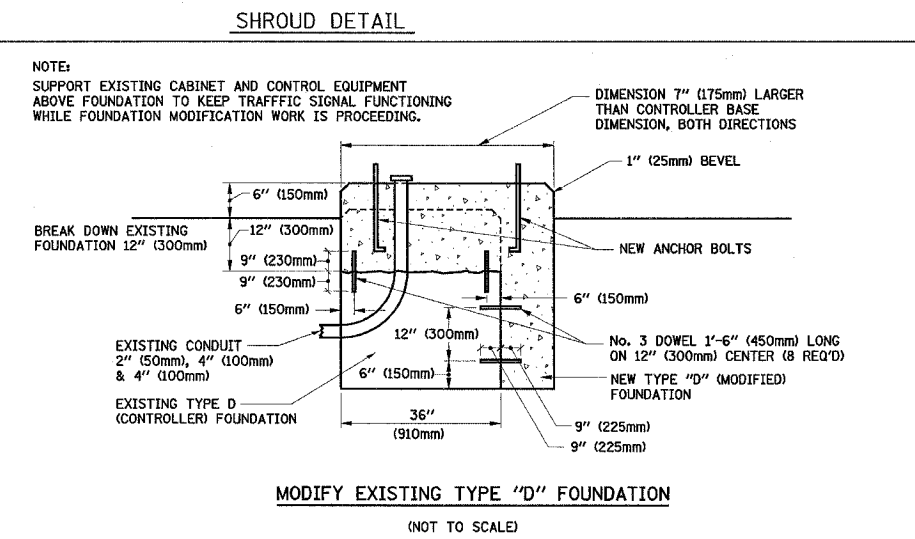
PLOT DATE = 10/25/2007  
 FILE NAME = \\edistrf2\users\wlgreenp\wlgreenp\62949 - Final Plans - District Standards\ts05.dgn  
 PLOT SCALE = 50.0000 / IN.  
 USER NAME = wlgreenp

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	69
STA.		TO STA.		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TYPE	A	B	C	HEIGHT	WEIGHT
I	∅ 10.125" (257mm)	9.5" (241mm)	19" (483mm)	12" (300mm)	24kg
II	∅ 11.125" (283mm)	10.75" (273mm)	21.5" (546mm)	12" (300mm)	26kg

MATERIAL:  
 - ASTM A48 CLASS 30 GREY IRON  
 - ASTM A123 HOT DIPPED GALVANIZED

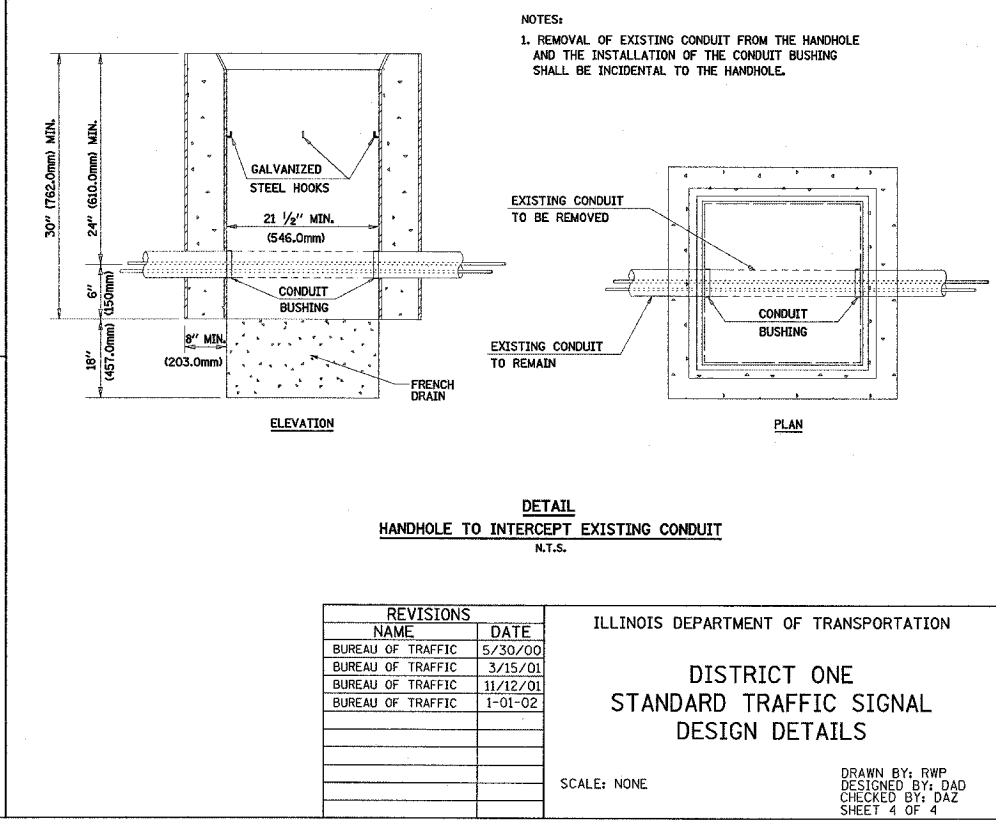
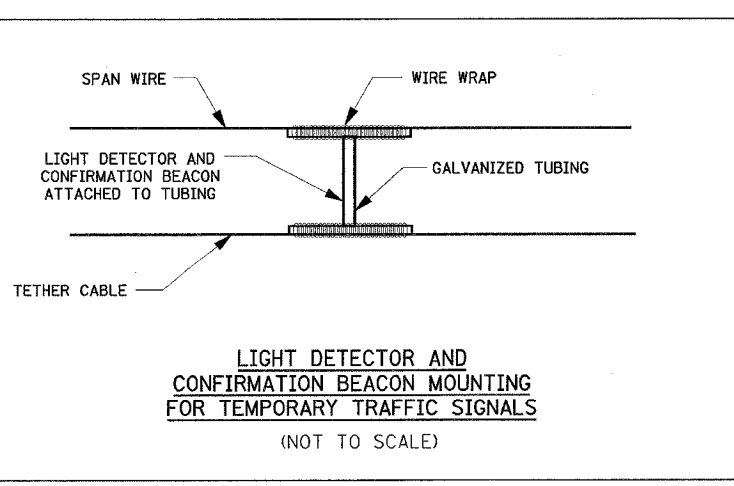


ITEM NO.	IDENTIFICATION
1	OUTLET BOX - GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	PAR 38 LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

8-3-93

NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- ITEM #1- 02/GEDNEY FSX-1-50 OR EQUIVALENT  
 ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT  
 ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 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.



REVISIONS	NAME	DATE
1	BUREAU OF TRAFFIC	5/30/00
2	BUREAU OF TRAFFIC	3/15/01
3	BUREAU OF TRAFFIC	11/12/01
4	BUREAU OF TRAFFIC	1-01-02

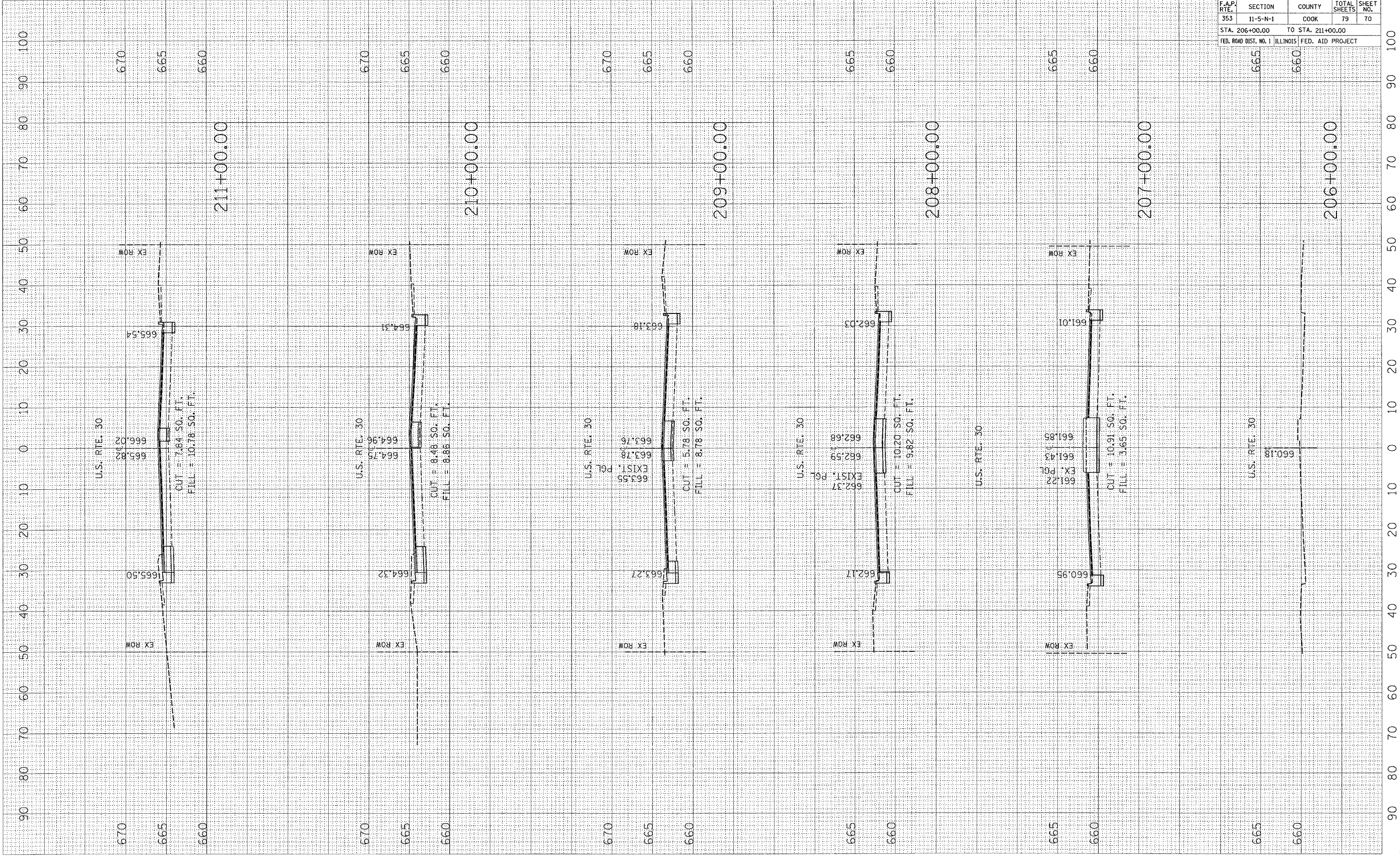
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 DISTRICT ONE  
 STANDARD TRAFFIC SIGNAL  
 DESIGN DETAILS  
 SCALE: NONE  
 DRAWN BY: RWP  
 DESIGNED BY: DAZ  
 CHECKED BY: DAZ  
 SHEET 4 OF 4  
 TS05

PLOT DATE = 10/25/2007  
 PLOT TIME = 10:22:22  
 PLOT SCALE = 50.00000 / IN  
 USER NAME = wjg-eeepd  
 Plot Path = D:\projects\62949 - Final Plans - District Standard\62949.dwg

PLOT DATE = 10/20/2007  
 FILE NAME = c:\p\projects\101003\us\_101003.dwg  
 PLOT SCALE = 10.0000 / IN.  
 USER NAME = wlgrensdup

ORIGINAL SURVEY SURVEYED SURVEY BY DATE  
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 NO. DATE BY DATE  
 NO. DATE BY DATE

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

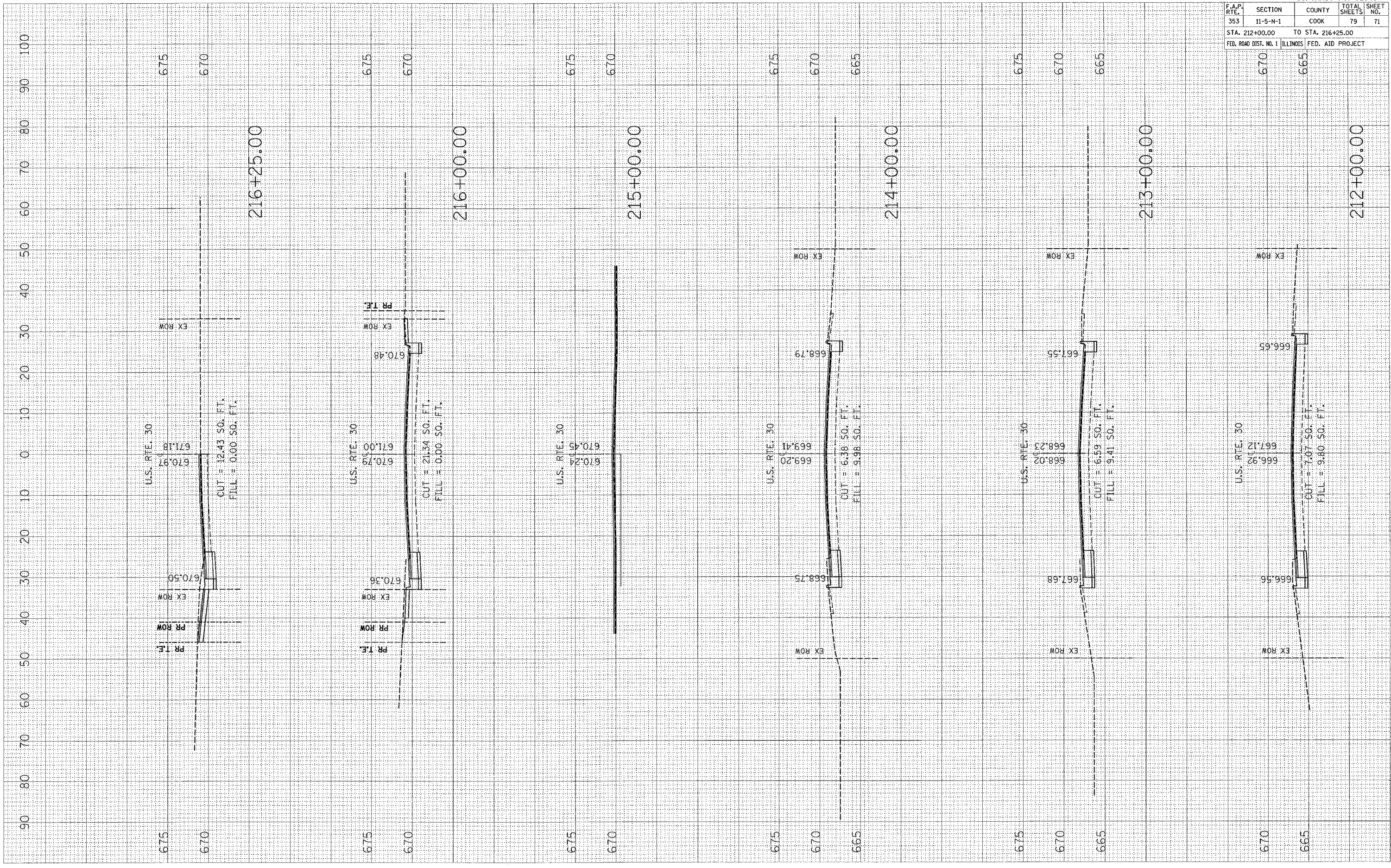


CONTRACT NO. 62949				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	70
STA. 206+00.00		TO STA. 211+00.00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PLOT DATE = 10/26/2007  
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 PLOT SCALE = 1/8" = 1'-0"  
 USER NAME = jlg

ORIGINAL SURVEY  
 SURVEY NO. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 BY \_\_\_\_\_

FINAL SURVEY  
 SURVEY NO. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 BY \_\_\_\_\_



CONTRACT NO. 62949				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	71
STA. 212+00.00		TO STA. 216+25.00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

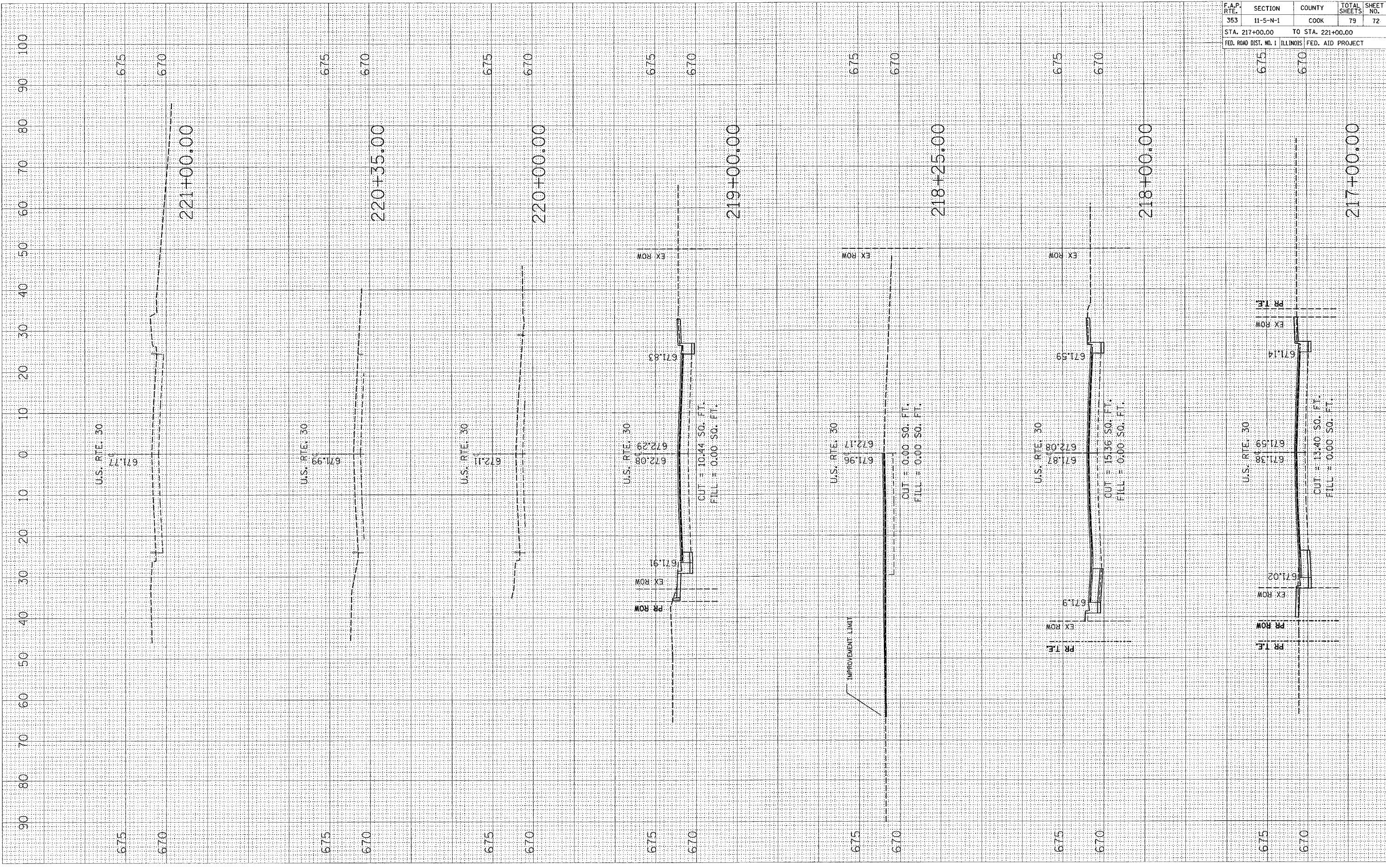


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 USER NAME = vlgmncdp

ORIGINAL SURVEY PLOTTED  
 SURVEY PLOTTED  
 TEMPLATE AREAS CHECKED

FINAL SURVEY PLOTTED  
 SURVEY PLOTTED  
 TEMPLATE AREAS CHECKED

BY: \_\_\_\_\_ DATE: \_\_\_\_\_

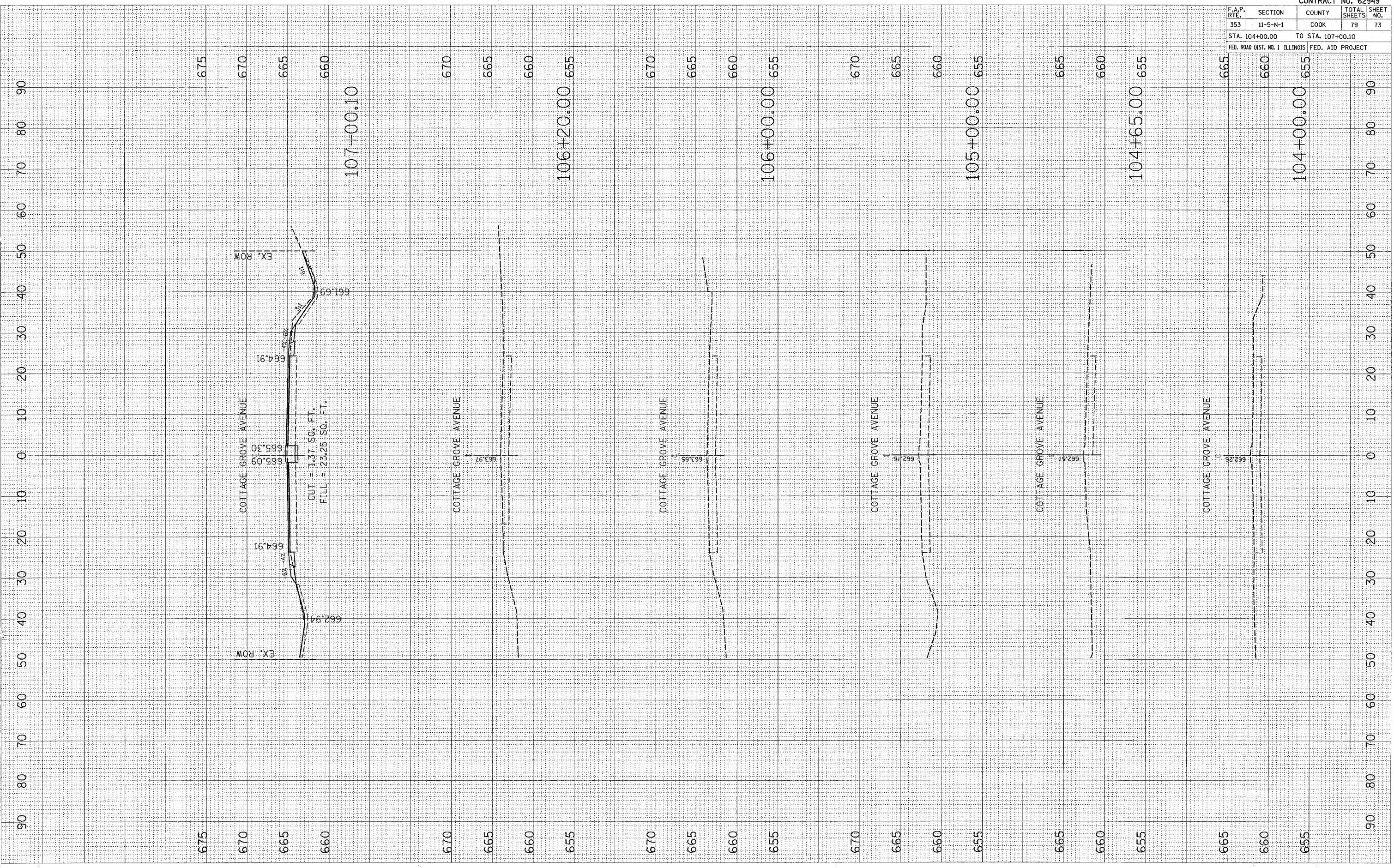


CONTRACT NO. 62949				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	72
STA. 217+00.00		TO STA. 221+00.00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

PLOT DATE = 12/14/2007  
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 PLOT SCALE = 10.0000 / IN.  
 USER NAME = wlgreendp

ORIGINAL SURVEY  
 SURVEY NO. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 DATE \_\_\_\_\_

FINAL SURVEY  
 SURVEY NO. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 BY \_\_\_\_\_  
 CHECKED \_\_\_\_\_  
 DATE \_\_\_\_\_



CONTRACT NO. 62949				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	73
STA. 104+00.00		TO STA. 107+00.10		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

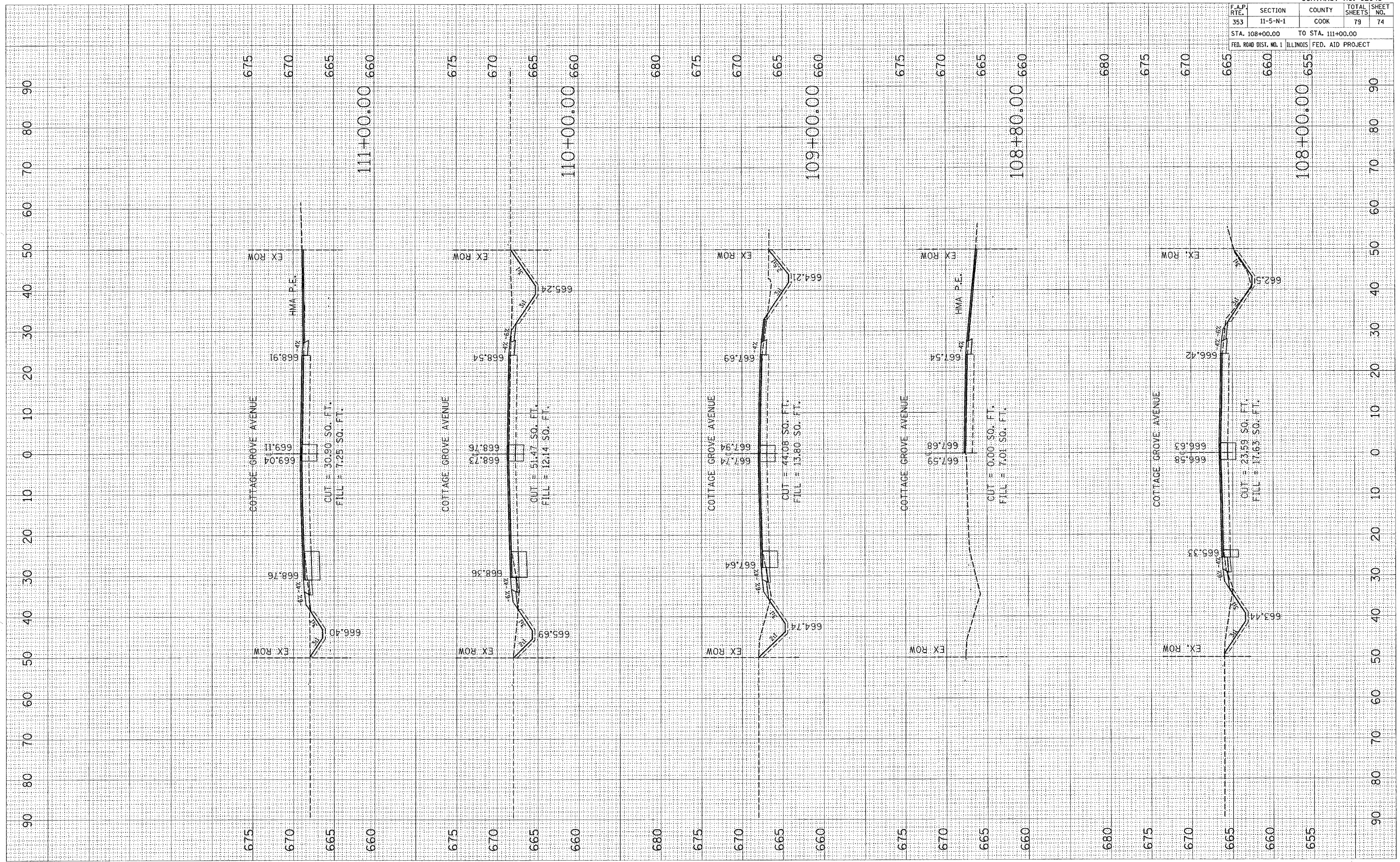
REV. 1

FINAL SURVEY  
EXEMPTED  
PLOTTED  
NOTE BOOK  
AREAS CHECKED

ORIGINAL SURVEY  
EXEMPTED  
PLOTTED  
NOTE BOOK  
AREAS CHECKED

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
BY: \_\_\_\_\_ DATE: \_\_\_\_\_

PLOT DATE = 12/11/2007  
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USER NAME = wjg/mmp



F.A.P. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	74

STA. 108+00.00 TO STA. 111+00.00  
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

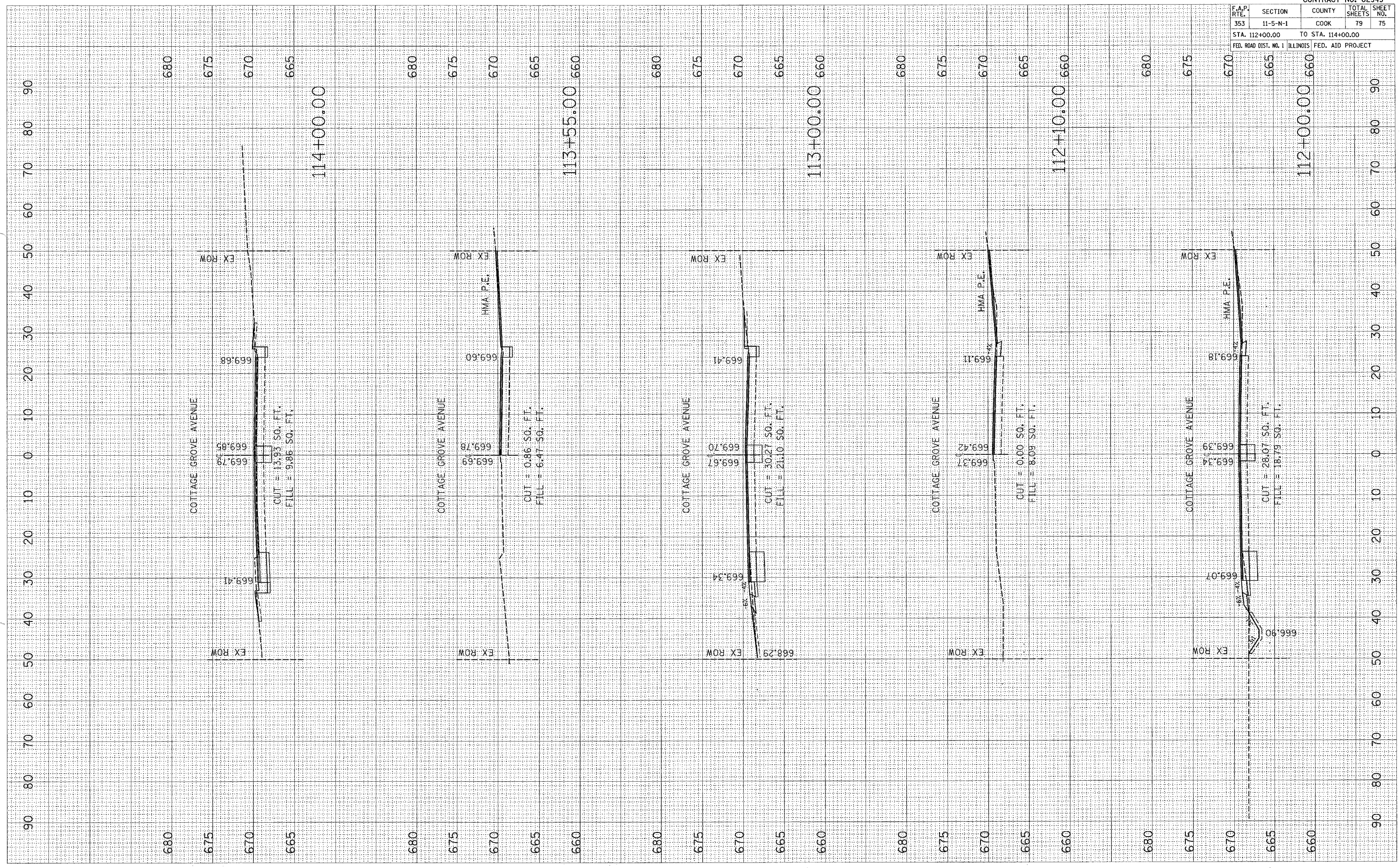
REV. 1

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

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

PLOT DATE = 12/14/2007  
 FILE NAME = c:\pca\pca\p101003\va.cottca.shp  
 PLOT SCALE = 1/8" = 100'  
 USER NAME = wlgrenndp

CONTRACT NO. 62949				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	75
STA. 112+00.00		TO STA. 114+00.00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



REV. 1



ORIGINAL SURVEY NO. \_\_\_\_\_

BY \_\_\_\_\_ DATE \_\_\_\_\_

FINAL SURVEY NO. \_\_\_\_\_

BY \_\_\_\_\_ DATE \_\_\_\_\_

NOTE BOOK NO. \_\_\_\_\_

TEMPLATE AREAS CHECKED \_\_\_\_\_

AREAS CHECKED \_\_\_\_\_

ORIGINAL SURVEY NO. \_\_\_\_\_

BY \_\_\_\_\_ DATE \_\_\_\_\_

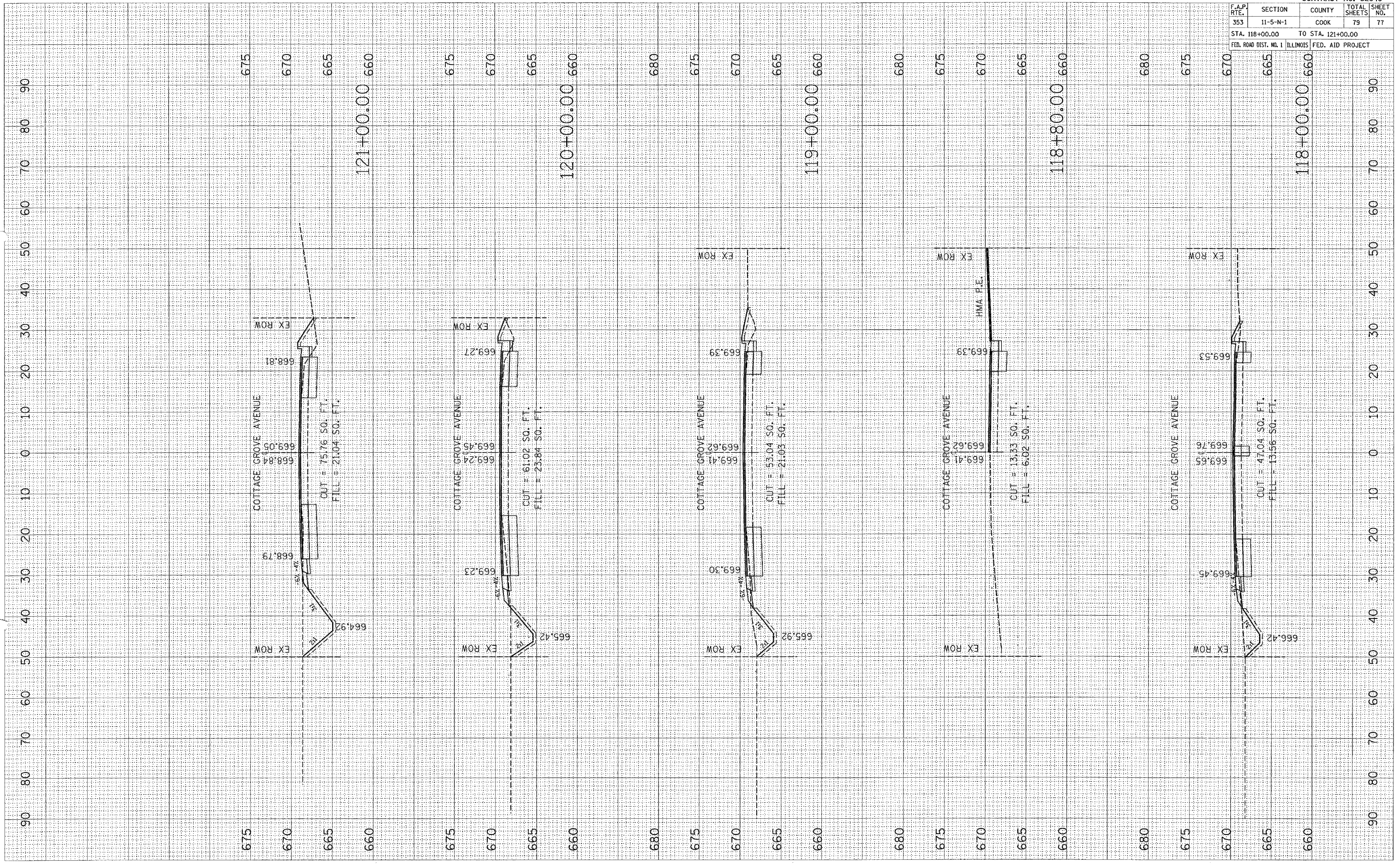
FINAL SURVEY NO. \_\_\_\_\_

BY \_\_\_\_\_ DATE \_\_\_\_\_

NOTE BOOK NO. \_\_\_\_\_

TEMPLATE AREAS CHECKED \_\_\_\_\_

AREAS CHECKED \_\_\_\_\_



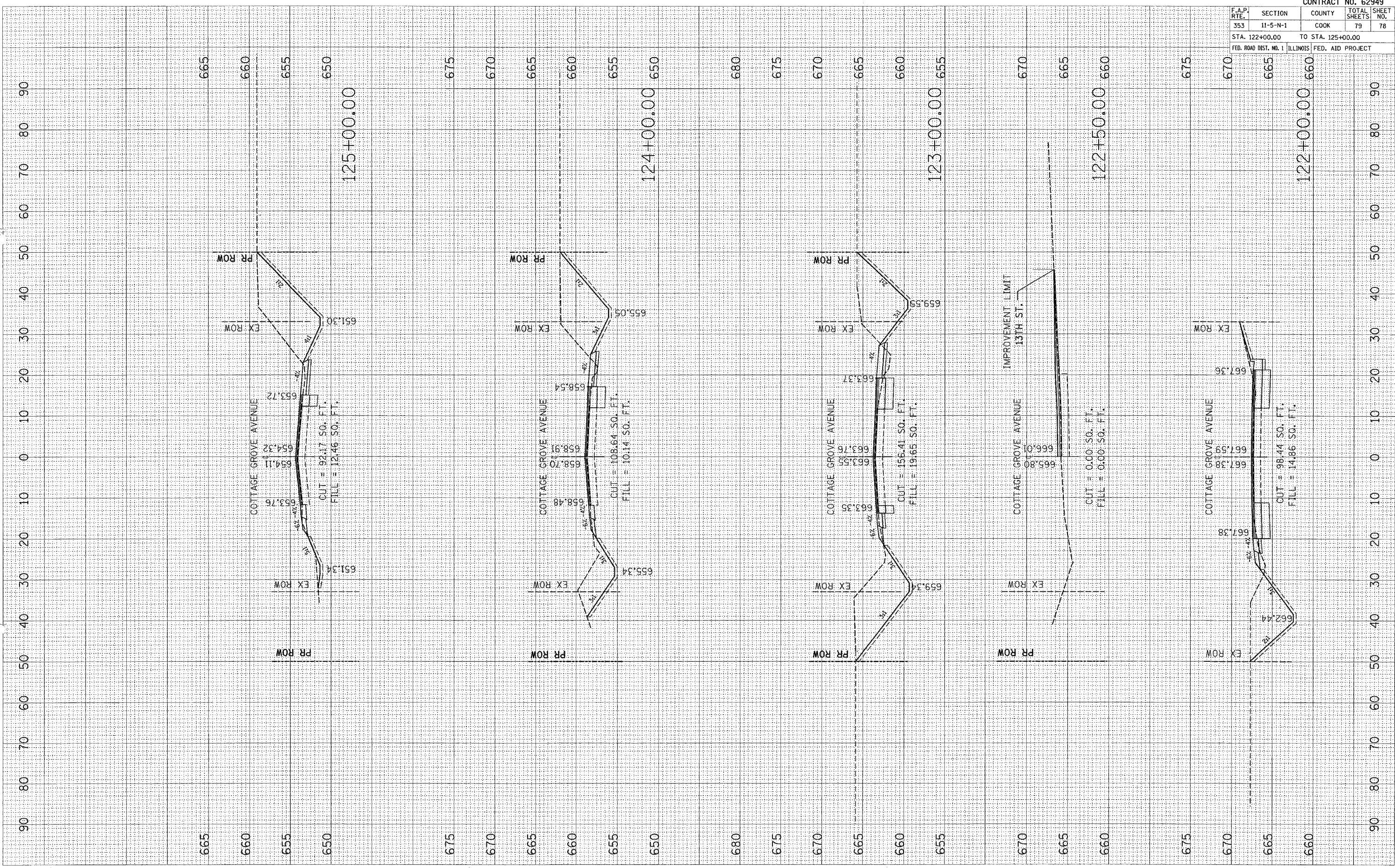
CONTRACT NO. 62949				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	77
STA. 118+00.00 TO STA. 121+00.00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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 USER NAME = wjg

ORIGINAL SURVEY PLOTTED  
 SURVEYED PLOTTED  
 NO. AREAS CHECKED

FINAL SURVEY PLOTTED  
 SURVEYED PLOTTED  
 NO. AREAS CHECKED

BY DATE



CONTRACT NO. 62949				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	78
STA. 122+00.00		TO STA. 125+00.00		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

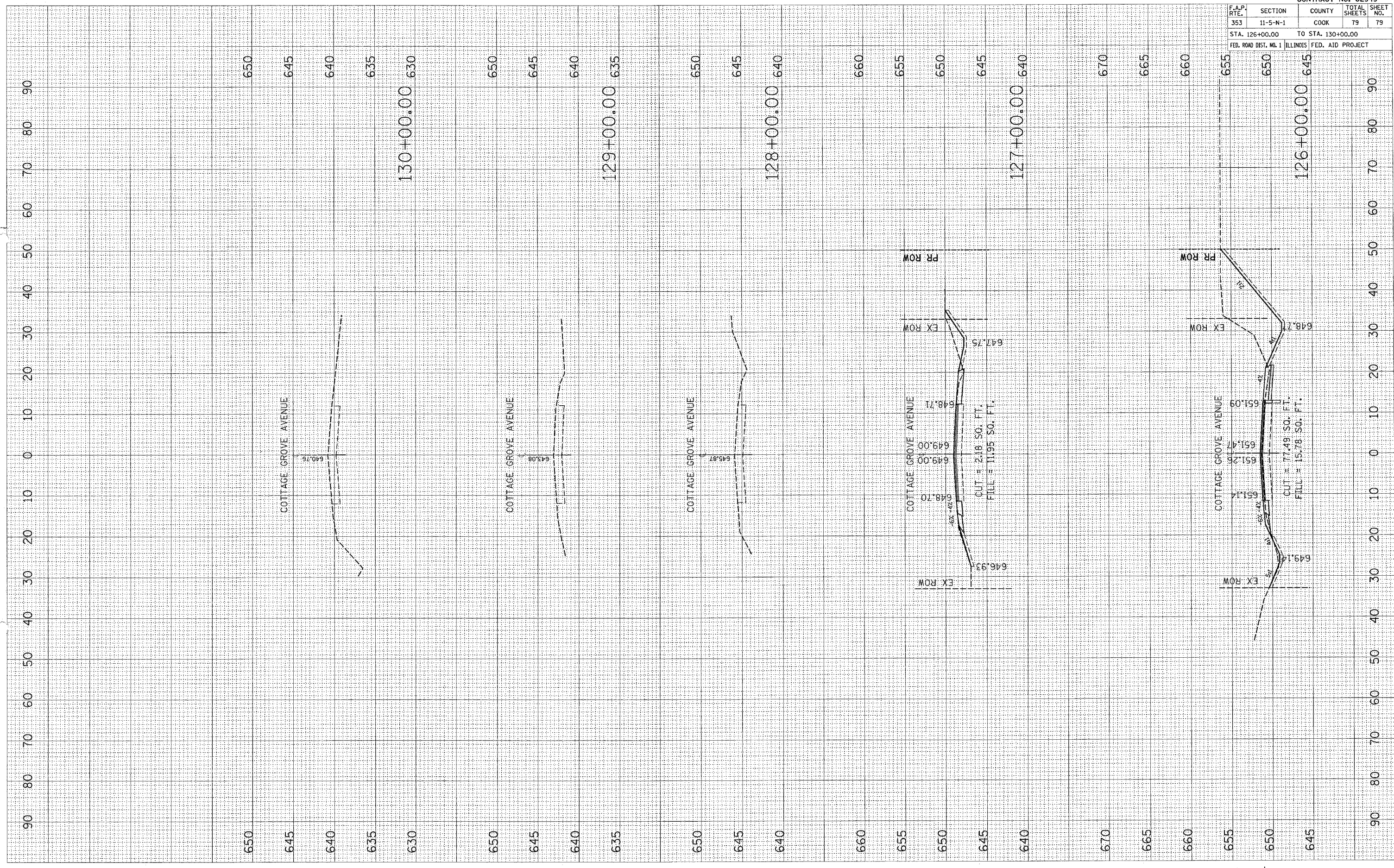
REV. 1

PLOT DATE = 12/14/2007  
 PLOT SCALE = 1/8" = 100'  
 USER NAME = ulgreen@p

ORIGINAL SURVEYED  
 SURVEY PLOTTED  
 NOTE BOOK TEMPLATE  
 NO. AREAS CHECKED

FINAL SURVEY  
 SURVEY PLOTTED  
 NOTE BOOK TEMPLATE  
 NO. AREAS CHECKED

BY DATE



REV. 1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
353	11-5-N-1	COOK	79	79
STA. 126+00.00		TO STA. 130+00.00		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 62949