

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK&3041-15D-2-R)N	COOK	69	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 60V01		

\*69 + 14 = 83

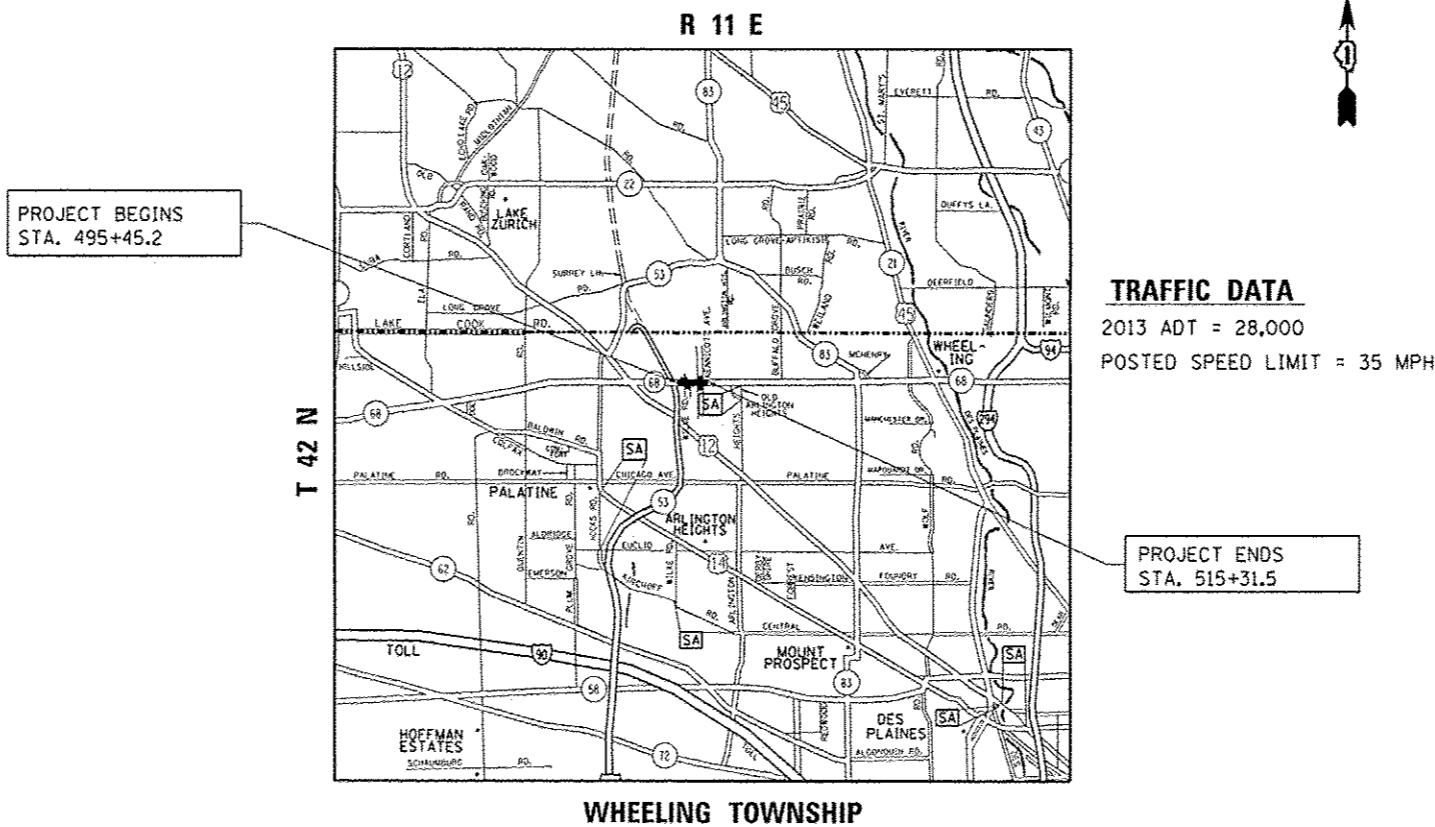
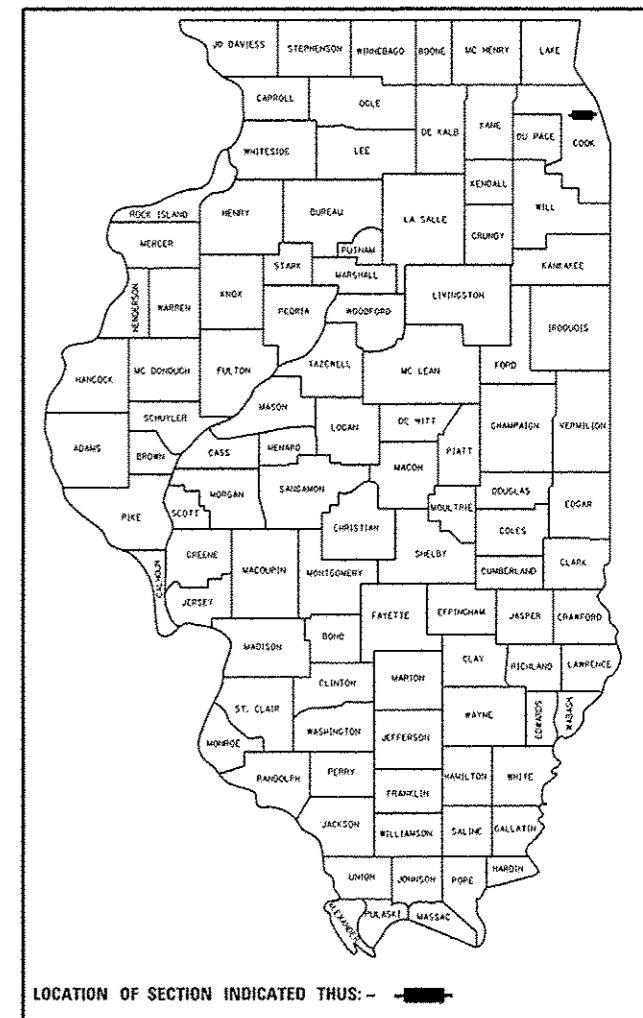
D-91-508-12

FOR INDEX OF SHEETS, SEE SHEET NO. 2

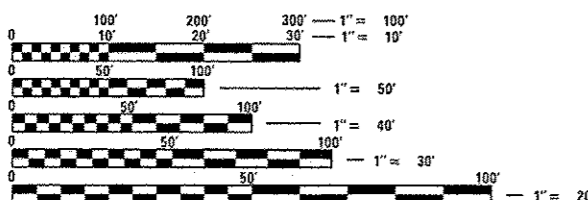
PROJECT IS LOCATED IN THE VILLAGE OF ARLINGTON HEIGHTS

**PROPOSED  
HIGHWAY PLANS**

FAP ROUTE 343: IL 68 (DUNDEE ROAD)  
AT 1) NORTH WILKE RD. AND  
2) KENNICOTT AVE.  
SECTION: (531-4HBK&3041-15D-2-R)N  
TURNING LANES, TRAFFIC SIGNAL MODERNIZATION  
PROJECT: ACCM-0343 (027)  
COOK COUNTY  
C-91-508-12



**TRAFFIC DATA**  
2013 ADT = 28,000  
POSTED SPEED LIMIT = 35 MPH



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

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

PROJECT ENGINEER J. ALAIN MIDY (847) 221-3056  
PROJECT MANAGER ISSAM RAYYAN (847) 705-4178

GROSS AND NET LENGTH OF IMPROVEMENT = 1986.3 LINEAL FEET = 0.376 MILE

CONTRACT NO. 60V01

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
SUBMITTED July 1 2015  
John D. Baranzelli, PE  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER  
Oct 2 2015  
John D. Baranzelli, PE  
ENGINEER OF DESIGN AND ENVIRONMENT  
Oct 2 2015  
Chris Osman, PE  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES
3-14 <del>B</del>	SUMMARY OF QUANTITIES
15-16	TYPICAL SECTIONS PLAN
17	SCHEDULE OF QUANTITIES
18	ALIGNMENT, TIES & BENCHMARKS PLAN
19-21	EXISTING & PROPOSED ROADWAY PLAN & PROFILE
22	EROSION CONTROL PLAN
23-25	EXISTING & PROPOSED DRAINAGE PLAN
26	PLAT OF HIGHWAYS
27-28	SUE PLAN
29	PAVEMENT MARKING & LANDSCAPING PLAN
30-52	TRAFFIC SIGNAL PLAN
52A.-52L.	LIGHTING PLAN
53	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)
54	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
55	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)
56	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
57	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTION AND, DRIVEWAYS (TC-10)
58	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
59	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
60	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
61	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)
62	ARTERIAL ROAD INFORMATION SIGN (TC-22)
63	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAIL FOR ROADWAY RESURFACING (TS-07)
64-69	CROSS SECTION PLANS

**LIST OF STATE STANDARDS**

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-08	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
482011-03	HMA, SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602001-02	CATCH BASIN, TYPE A
602011-02	CATCH BASIN, TYPE C
604001-04	FRAME AND LIDS, TYPE 1
604086-03	FRAME AND GRATE TYPE 23
604091-03	FRAME AND GRATE TYPE 24
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	CONCRETE ISLANDS AND MEDIANS
701101-04	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5M) TO 24' (600MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5M) AWAY
701427-03	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS <= 40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-07	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK CORNER OR CROSSWALK CLOSURE
701901-04	TRAFFIC CONTROL DEVICES
805001-01	ELECTRICAL SERVICE INSTALLATION DETAILS
814001-03	HANDHOLES
814006-02	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
876001-03	PEDESTRIAN PUSH BUTTOM POST
877001-05	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-10	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATION

**GENERAL NOTES**

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF ARLINGTON HEIGHTS

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

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (45 KM/H) OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (45 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

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

THE ENGINEER SHALL CONTACT MR. JOE ECKERT AREA TRAFFIC FIELD ENGINEER AT (847) 705-4412 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKING ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

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.

TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.

ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINE (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.

FILE NAME :	USER NAME : guillaumefp	DESIGNED :	REVISED :	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, LIST OF STATE STANDARDS &amp; GENERAL NOTES IL ROUTE 68 AT N. WILKE RD. &amp; KENNICOTT AVE.</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pm\11084848\INTEG\Illinois.gov\PI001\00	Documents\DOT Office\District 1\Projects\PI24912\Design\PI24912-design.dgn	CHECKED :	REVISED :			343	1531-4HBK&3041-15D-2-RIN	COOK	69	2	
		PLOT SCALE : 100.0000 / in.	REVISED :			CONTRACT NO. 60V01					
		PLOT DATE : 7/14/2015	REVISED :			SCALE: 1"=50'	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO.

REV.

URBAN

1 3 4 5 6 2 7

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																	
				ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNAL 0021 M. WILKE RD 80% FED 15% STATE 5% VILLAGE	TRAFFIC SIGNAL 0021 KENNICOTT 80% FED 10% STATE 10% VILLAGE	TRAFFIC SIGNAL 0021 80% FED 20% STATE INTERCONNEC	EVP 0021 100% VILLAGE OF ARLINGTON HEIGHTS	SIDEWALK SHARE PATH 0004 80% FED 20% VILLAGE	FIRE HYDRANT 0043 100% VILLAGE OF ARLINGTON HEIGHTS											
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	60	60																	
20101000	TEMPORARY FENCE	FOOT	16	16																	
20200100	EARTH EXCAVATION	CU YD	631	631																	
20800150	TRENCH BACKFILL	CU YD	42	42																	
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1278	1278																	
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	4248	4248																	
25000210	SEEDING, CLASS 2A	ACRE	0.4	0.4																	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	99	99																	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	99	99																	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	99	99																	
25100630	EROSION CONTROL BLANKET	SQ YD	1820	1820																	
25200110	SODDING, SALT TOLERANT	SQ YD	5100	5100																	
25200200	SUPPLEMENTAL WATERING	UNIT	51	51																	
28000305	TEMPORARY DITCH CHECKS	FOOT	42	42																	
28000400	PERIMETER EROSION BARRIER	FOOT	2550	2550																	

15

FILE NAME :	USER NAME : gulliametp	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pr:\MSD\BID\BID\TEC\111\rd\sp\PI\DOT\Documents\100	Office\District\Projects\1219\2\CA00Data\Design\1219	CHECKED -	REVISED -			343	1531-400KA3041-150-2-R	COOK	69	3	
	PLOT SCALE * 100,0000' / 1"	DATE -	REVISED -			SCALE: SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 60V01			
	PLOT DATE * 7/14/2015					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



URBAN

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNAL 0021 80% FED 15% STATE 5% VILLAGE	TRAFFIC SIGNAL 0021 80% FED 10% STATE 10% VILLAGE	TRAFFIC SIGNAL 0021 80% FED 20% STATE INTERCONNECT	EVP 0021 100% VILLAGE OF ARLINGTON HEIGHTS	SIDEWALK SHARE PATH 0004 80% FED 20% VILLAGE	FIRE HYDRANT 0043 100% VILLAGE OF ARLINGTON HEIGHTS										
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2160	1410					750											
42400800	DETECTABLE WARNINGS	SQ FT	150	150																
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	16750	16750																
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	2260	2260																
44000600	SIDEWALK REMOVAL	SQ FT	7730	7730																
44002210	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 2 1/2"	SQ YD	277	277																
44004250	PAVED SHOULDER REMOVAL	SQ YD	1350	1350																
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	90	90																
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	45	45																
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	100	100																
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	410	410																
56109210	WATER VALVES TO BE ADJUSTED	EACH	1							1										
56400400	FIRE HYDRANTS TO BE RELOCATED	EACH	2							2										
60107600	PIPE UNDERDRAINS 4"	FOOT	250	250																

14

URBAN

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																	
				ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNAL 0021 ON WILKE RD 80% FED 15% STATE 5% VILLAGE	TRAFFIC SIGNAL 0021 KENNICOTT 80% FED 10% STATE 10% VILLAGE	TRAFFIC SIGNAL 0021 80% FED 20% STATE INTERCONNECT	EVP 0021 100% VILLAGE OF ARLINGTON HEIGHTS	SIDEWALK SHARE PATH 0004 80% FED 20% VILLAGE	FIRE HYDRANT 0043 100% VILLAGE OF ARLINGTON HEIGHTS											
60201340	CATCH BASINS, TYPE A, 4' -DIAMETER, TYPE 24 FRAME AND GRATE	EACH	2	2																	
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	9	9																	
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	5	5																	
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	5	5																	
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	650	650																	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1830	1830																	
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	50 FT	226	226																	
60619200	CONCRETE MEDIAN, TYPE SB-6.06	50 FT	3350	3350																	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	100	100																	
* 66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1																	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2																	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6																	
67100100	MOBILIZATION	LSUM	1	1																	

13

FILE NAME =	USER NAME = gtloume12	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
per \\11004828\BID\BID\11004828\Documents\100	Office\District 12\Projects\124922-CAD\Design\124922-0001.dwg	CHECKED -	REVISED -			343	1531-4801A3041-150-2-R	CDOR	69	6
	PLOT SCALE = 1000000' / 1" /	DATE -	REVISED -			CONTRACT NO. 60Y01				
	PLOT DATE = 7/14/2005					FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				

\* SPECIALTY ITEM

URBAN

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																
				ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNAL 0021 80% WILKE RD 80% FED 15% STATE 5% VILLAGE	TRAFFIC SIGNAL 0021 KENNICOTT 80% FED 10% STATE 10% VILLAGE	TRAFFIC SIGNAL 0021 80% FED 20% STATE INTERCONNECT	EVP 0021 100% VILLAGE OF ARLINGTON HEIGHTS	SIDEWALK SHARE PATH 0004 80% FED 20% VILLAGE	FIRE HYDRANT 0043 100% VILLAGE OF ARLINGTON HEIGHTS										
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	LSUM	1	1																
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	1	1																
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	LSUM	1	1																
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	1																
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1																
70300100	SHORT TERM PAVEMENT MARKING	FOOT	7900	7900																
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	415.1	415.1																
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	6150	6150																
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1580	1580																
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	200	200																
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1240	1240																
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	300	300																
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	880	880																

13

FILE NAME : p:\14084E\B\0\TEC\11\nd\sp\2\1007\Document\1007	USER NAME : g\1\ame\g	DESIGNED -	REVISD -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OFFICE District 11 Projects\12492\CAD\3rd\Dist\11\2007\11\11	PLOT SCALE : 100,0000 ' / 1"	CHECKED -	REVISD -			343	1531-4H8FA3041-150-2-R	COOK	69	7
PLOT DATE : 7/14/2015	DATE -	REVISD -	SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 60V01		FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT		

URBAN

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																
				ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNAL 0021 80% FED 15% STATE 5% VILLAGE	TRAFFIC SIGNAL 0021 80% FED 10% STATE 10% VILLAGE	TRAFFIC SIGNAL 0021 80% FED 20% STATE INTERCONNECT	EVP 0021 100% VILLAGE OF ARLINGTON HEIGHTS	SIDEWALK SHARE PATH 0004 80% FED 20% VILLAGE	FIRE HYDRANT 0043 100% VILLAGE OF ARLINGTON HEIGHTS										
72000100	SIGN PANEL - TYPE 1	50 FT	13.5		13.5															
72000200	SIGN PANEL - TYPE 2	50 FT	71		25	46														
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	50 FT	415.1	415.1																
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	5300	5300																
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1580	1580																
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	200	200																
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1240	1240																
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	300	300																
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	160	160																
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	80	80																
80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	2		1	1														
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	2008		843	911	254													

12

FILE NAME	USER NAME = gullameta	DESIGNED -	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PROJECT	OFFICE	CHECKED -	REVISIONS -			343	IS31-488&3341-150-2-R	COOK	59	8	
PLOT SCALE = 1/8" = 1'	DATE	REVISIONS -	SCALE:			SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 60V01			
PLOT DATE = 7/14/2015	DATE	REVISIONS -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

\* SPECIALTY ITEMS



URBAN

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																	
CODE NO	ITEM	UNIT		ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNAL 0021 DN. WILKE RD 80% FED 15% STATE 5% VILLAGE	TRAFFIC SIGNAL 0021 KENNICOTT 80% FED 10% STATE 10% VILLAGE	TRAFFIC SIGNAL 0021 80% FED 20% STATE INTERCONNEC	EVP 0021 100% VILLAGE OF ARLINGTON HEIGHTS	SIDEWALK SHARE PATH 0004 80% FED 20% VILLAGE	FIRE HYDRANT 0043 100% VILLAGE OF ARLINGTON HEIGHTS											
81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	97		72	25															
81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	210		108	102															
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	1162		584	418	160														
81400100	HANDHOLE	EACH	9		5	4															
81400200	HEAVY-DUTY HANDHOLE	EACH	8		4	4															
81400300	DOUBLE HANDHOLE	EACH	4		2	2															
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2				2														
86400100	TRANSCEIVER - FIBER OPTIC	EACH	2				2														
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1557		309	1248															
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2503		665	1838															
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1825		857	968															
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	5638		3398	2240															

12

FILE NAME =	USER NAME = gilloum/p	DESIGNED -	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OFFICE OF TRANSPORTATION	OFFICE OF TRANSPORTATION	CHECKED -	REVISOR -			343	1531-488&1041-150-2-R	COOK	59	9
PLOT SCALE = 100,000' / 1"		DATE -	REVISOR -			CONTRACT NO. 60V01				
PLOT DATE = 7/14/2015						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

• SPECIALTY ITEMS

URBAN

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																
				ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNAL 0021 80% FED 15% STATE 5% VILLAGE	TRAFFIC SIGNAL 0021 80% FED 10% STATE 10% VILLAGE	TRAFFIC SIGNAL 0021 80% FED 20% STATE INTERCONNECT	EVP 0021 100% VILLAGE OF ARLINGTON HEIGHTS	SIDEWALK SHARE PATH 0004 80% FED 20% VILLAGE	FIRE HYDRANT 0043 100% VILLAGE OF ARLINGTON HEIGHTS										
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.	FOOT	4010		2315	1695														
	14 1 PAIR																			
87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO.	FOOT	249		89	160														
	6 2 C																			
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT	FOOT	2870		1652	1218														
	GROUNDING CONDUCTOR, NO. 6 1C																			
87502400	TRAFFIC SIGNAL POST, GALVANIZED STEEL 3	EACH	1			1														
	1/2 FT.																			
87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 1 1/2 FT.	EACH	4		2	2														
87700120	STEEL MAST ARM ASSEMBLY AND POLE, 16 FT.	EACH	2		2															
<del>87700130</del>	<del>STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.</del>	<del>EACH</del>	<del>1</del>																	
<del>87700210</del>	<del>STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.</del>	<del>EACH</del>	<del>1</del>																	
<del>87700220</del>	<del>STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.</del>	<del>EACH</del>	<del>3</del>		1	2														
<del>87700230</del>	<del>STEEL MAST ARM ASSEMBLY AND POLE, 38 FT.</del>	<del>EACH</del>	<del>1</del>																	

10

Rev.

URBAN

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE															
				ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNAL 0021 DR. WILKE RD 80% FED 15% STATE 5% VILLAGE	TRAFFIC SIGNAL 0021 KENNICOTT 80% FED 10% STATE 10% VILLAGE	TRAFFIC SIGNAL 0021 80% FED 20% STATE INTERCONNECT	EVP 0021 100% VILLAGE OF ARLINGTON HEIGHTS	SIDEWALK SHARE PATH 0004 80% FED 20% VILLAGE	FIRE HYDRANT 0043 100% VILLAGE OF ARLINGTON HEIGHTS									
<del>87700280</del>	<del>STEEL MAST ARM ASSEMBLY AND POLE, 48</del>	<del>EACH</del>	<del>1</del>		<del>1</del>														
	<del>FT.</del>																		
<del>87700300</del>	<del>STEEL MAST ARM ASSEMBLY AND POLE, 52</del>	<del>EACH</del>	<del>1</del>																
	<del>FT.</del>																		
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	20		8	12													
87800150	CONCRETE FOUNDATION, TYPE C	FOOT	8		4	4													
87800400	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	30		20	10													
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	102		50	52													
88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3		3														
88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1		1														
88030100	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	4		3	1													
88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	14		11	3													
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	10		2	8													

FILE NAME =	USER NAME = gilloumfo	DESIGNED -	REVISED -
OFFICE DISTRICT PROJECT P12#912-CADD/Design/P12-020000.dwg		CHECKED -	REVISED -
PLOT SCALE = 100.0000' / 1"		DATE -	REVISED -
PLOT DATE = 7/14/2015			

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		343	1531-248483041-150-2-R	COOK	69	11
		CONTRACT NO. 60V01				
		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

• SPECIALTY ITEMS

Rev.

URBAN

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE																		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNAL 0021 80% FED 15% STATE 5% VILLAGE	TRAFFIC SIGNAL 0021 80% FED 10% STATE 10% VILLAGE	TRAFFIC SIGNAL 0021 80% FED 20% STATE INTERCONNECT	EVP 0021 100% VILLAGE OF ARLINGTON HEIGHTS	SIDEWALK SHARE PATH 0004 80% FED 20% VILLAGE	FIRE HYDRANT 0043 100% VILLAGE OF ARLINGTON HEIGHTS											
88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	22		14	8															
88500100	INDUCTIVE LOOP DETECTOR	EACH	20		11	9															
88600100	DETECTOR LOOP, TYPE I	FOOT	1789		862	927															
88800100	PEDESTRIAN PUSH-BUTTON	EACH	10		2	8															
89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2		1	1															
89500100	RELOCATE EXISTING SIGNAL HEAD	EACH	14			14															
89501150	RELOCATE EXISTING TRAFFIC SIGNAL POST	EACH	2		2																
89501400	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT	EACH	5					5													
89501410	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT	EACH	2					2													
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5721				3821	1900													
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	3292				3292														
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2		1	1															
89502380	REMOVE EXISTING HANDHOLE	EACH	20		11	9															

FILE NAME =	USER NAME = gilloume/p	DESIGNED -	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PROJECT NO. 1531-408&3041-150-2-R	DATE	CHECKED -	REVISIONS -			343	1531-408&3041-150-2-R	COOK	69	12	
PLOT SCALE = 1/8" = 100'-0"	DATE	CHECKED -	REVISIONS -			CONTRACT NO. 60V01					
PLOT DATE = 7/14/2005	DATE	CHECKED -	REVISIONS -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

\* SPECIALTY ITEMS

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																
				ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNAL 0021 80% FED 15% STATE 5% VILLAGE	TRAFFIC SIGNAL 0021 80% FED 10% STATE 10% VILLAGE	TRAFFIC SIGNAL 0021 80% FED 20% STATE INTERCONNECT	EVP 0021 100% VILLAGE OF ARLINGTON HEIGHTS	SIDEWALK SHARE PATH 0004 80% FED 20% VILLAGE	FIRE HYDRANT 0043 100% VILLAGE OF ARLINGTON HEIGHTS										
89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	2		1	1														
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	16		9	7														
X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	1109					1109												
X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	400				400													
X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	2		1	1														
X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	4200	4200																
X4403300	CONCRETE MEDIAN REMOVAL	SQ FT	220	220																
X8100105	CONDUIT SPLICE	EACH	4			1	3													
X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	2		1	1														
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	3821				3821													
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1																
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	10	10																
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	102.8	102.8																

FILE NAME :	USER NAME :	DESIGNED :	REVISED :	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RATE:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:		
343	(53)-48863041-150-2-R	COOK	69			13						
						CONTRACT NO. 60V01						
						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						
PLOT SCALE : 100,000' = 1"		CHECKED :	REVISED :	SCALE:		SHEET NO. OF SHEETS		STA.	TO STA.			
PLOT DATE : 7/14/2015		DATE :	REVISED :									

13

URBAN

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																		
				ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNAL 0021 80% FED 15% STATE 5% VILLAGE	TRAFFIC SIGNAL 0021 80% FED 10% STATE 10% VILLAGE	TRAFFIC SIGNAL 0021 80% FED 20% STATE INTERCONNECT	EVP 0021 100% VILLAGE OF ARLINGTON HEIGHTS	SIDEWALK SHARE PATH 0004 80% FED 20% VILLAGE	FIRE HYDRANT 0043 100% VILLAGE OF ARLINGTON HEIGHTS												
Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	2				2															
Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2		1	1																

FILE NAME =	USER NAME = gullonefp	DESIGNED -	REVISED -
PRJ=\\ELDRHE\BID\NT\CG\Hind\sgp\PI\DOT\Doc\enr\10007	Office\District\N\Project\124912\CA\000\Design\PI\24912	CHECKED -	REVISED -
	PLOT SCALE = 100,000' / 1"	DATE -	REVISED -
	PLOT DATE = 1/14/2005		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	1531-4HR&S041-150-2-R	COOK	69	14
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60V01	

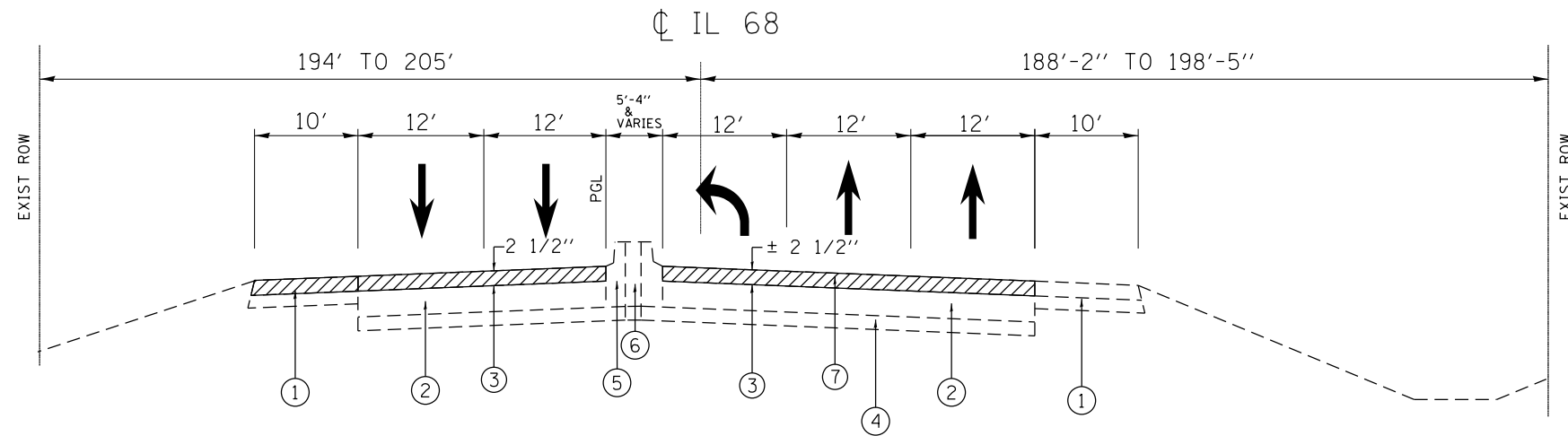
\* SPECIALTY ITEMS

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																			
CODE NO	ITEM	UNIT		ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNAL 0021 #N. WILKE RD 80% FED 15% STATE 5% VILLAGE	TRAFFIC SIGNAL 0021 KENNICOTT 80% FED 10% STATE 10% VILLAGE	TRAFFIC SIGNAL 0021 80% FED 20% STATE INTERCONN	EVP LIGHTING 0021 100% VILLAGE OF ARLINGTON HEIGHTS	SIDEWALK SHARE PATH 0004 80% FED 20% VILLAGE	FIRE HYDRANT 0043 100% VILLAGE OF ARLINGTON HEIGHTS													
81603072	UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 4	FOOT	2000				2000																
	GROUND, (XLP-TYPE USE), 1 1/4" DIA.																						
	POLYETHYLENE																						
81800300	AERIAL CABLE, 3-1/C NO. 2 WITH	FOOT	1886				1886																
	MESSENGER WIRE																						
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL	EACH	10		5	5																	
	MOUNT, 400 WATT																						
83057355	LIGHT POLE, WOOD, 60 FOOT, CLASS 4,	EACH	3				3																
	WITH 15FT MAST ARM																						
84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	3				3																
84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	4				4																
84200804	REMOVAL OF POLE FOUNDATION	EACH	4				4																
87700130	STEEL MAST ARM ASSEMBLY AND POLE, 18 FT.	EACH	1			1																	
87702880	STEEL COMBINATION MAST ARM ASSEMBLY AND	EACH	1			1																	
	POLE 30 FT.																						
87702900	STEEL COMBINATION MAST ARM ASSEMBLY AND	EACH	1			1																	
	POLE 34 FT.																						

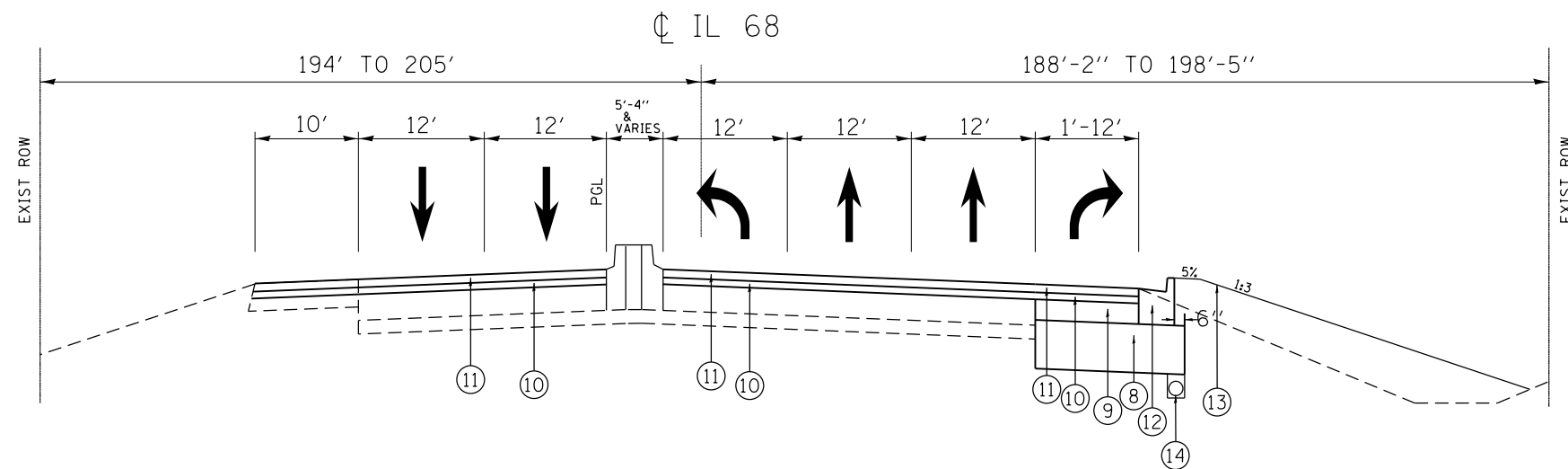
\* SPECIALTY ITEMS

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE																	
CODE NO	ITEM	UNIT		ROADWAY 0004 80% FED 20% STATE	TRAFFIC SIGNAL 0021 6H. WILKE RD 80% FED 15% STATE 5% VILLAGE	TRAFFIC SIGNAL 0021 KENNICOTT 80% FED 10% STATE 10% VILLAGE	TRAFFIC SIGNAL 0021 80% FED 20% STATE INTERCONNECT	EVP LIGHTING 0021 100% VILLAGE OF ARLINGTON HEIGHTS	SIDEWALK SHARE PATH 0004 80% FED 20% VILLAGE	FIRE HYDRANT 0043 100% VILLAGE OF ARLINGTON HEIGHTS											
87702910	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 36 FT.	EACH	3		1	2															
87702920	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 38 FT.	EACH	1		1																
87702970	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 48 FT.	EACH	1		1																
87702985	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 52 FT.	EACH	1			1															
A2002920	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	5	5																	
X0325949	ELECTRICAL SERVICE DISCONNECT, LIGHTING AND TRAFFIC SIGNAL	EACH	2		1	1															
X8250091	COMBINATION LIGHTING CONTROLLER	EACH	2		1	1															
Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	10		5	5															
Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6					6													
X1400143	ELECTRICAL CABLE ASSEMBLY IN CONDUIT, 600 V, (XLP-TYPE TC) 2-1C NO. 1/C NO. 10 GROUND	FOOT	920		550	370															





**EXISTING TYPICAL SECTION**  
**IL 68 (DUNDEE RD. AT WILKE RD. (LOOKING EAST))**  
**STA. 495+45.20 TO STA. 500+00.00**



**EXISTING TYPICAL SECTION**  
**IL 68 (DUNDEE RD. AT WILKE RD. (LOOKING EAST))**  
**STA. 495+45.20 TO STA. 500+00.00**

**LEGEND**

- ① EXISTING HMA SHOULDER 8"
- ② EXISTING PCC PAVEMENT ±10"
- ③ EXISTING HMA PAVEMENT ± 2 1/2"
- ④ EXISTING STABILIZED SUB-BASE 4"
- ⑤ EXISTING COMB CONC. CURB AND GUTTER, TYPE B-6.12
- ⑥ EXISTING STABILIZED MEDIAN SURFACE
- ⑦ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
- ⑧ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ⑨ PROPOSED HMA BASE COURSE, 7 1/4"
- ⑩ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑪ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑫ PROPOSED CURB AND GUTTER, B6.24 OR B6.12 (SEE PROP. PLAN)
- ⑬ PROPOSED FURNISH & PLACE TOP SOIL, 6"
- ⑭ PROP. PIPE UNDERDRAIN, 4"  
(STA. 497+50 TO 499+41 & STA. 509+80.5 TO STA. 511+05)
- ⑮ PROP. HMA SURFACE COURSE, MIX "D", N50, 2"
- ⑯ PROP. SUBBASE GRANULAR MATERIAL, TYPE B, 4"

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS (%) @Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
<b>PAVEMENT WIDENING</b>		
POLYMERIZED HMA SURFACE COURSE, MIX "F", N90 (IL 9.5 mm)	4% AT 90 GYR.	OCP
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	3.5% AT 50 GYR.	QC/OA
HMA BASE COURSE, 7 1/4" (HMA BINDER IL-19.0)	4% AT 70 GYR.	QC/OA
<b>PAVEMENT RESURFACING</b>		
POLYMERIZED HMA SURFACE COURSE, MIX "F", N90 (IL 9.5 mm)	4% AT 90 GYR.	OCP
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	3.5% AT 50 GYR.	QC/OA
<b>PATCHING</b>		
CLASS D PATCHES (HMA BINDER, IL-19.0 mm)	4% AT 70 GYR.	QC/OA
HMA REPLACEMENT OVER PATCHES	4% AT 70 GYR.	QC/OA
<b>SHARED USE PATH</b>		
HMA SURFACE COURSE, MIX "D", N50 (IL-9.5 mm)	4% AT 50 GYR.	QC/OA

**NOTES:**

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE MIXTURES IS 112 LBS/SQ YD/IN

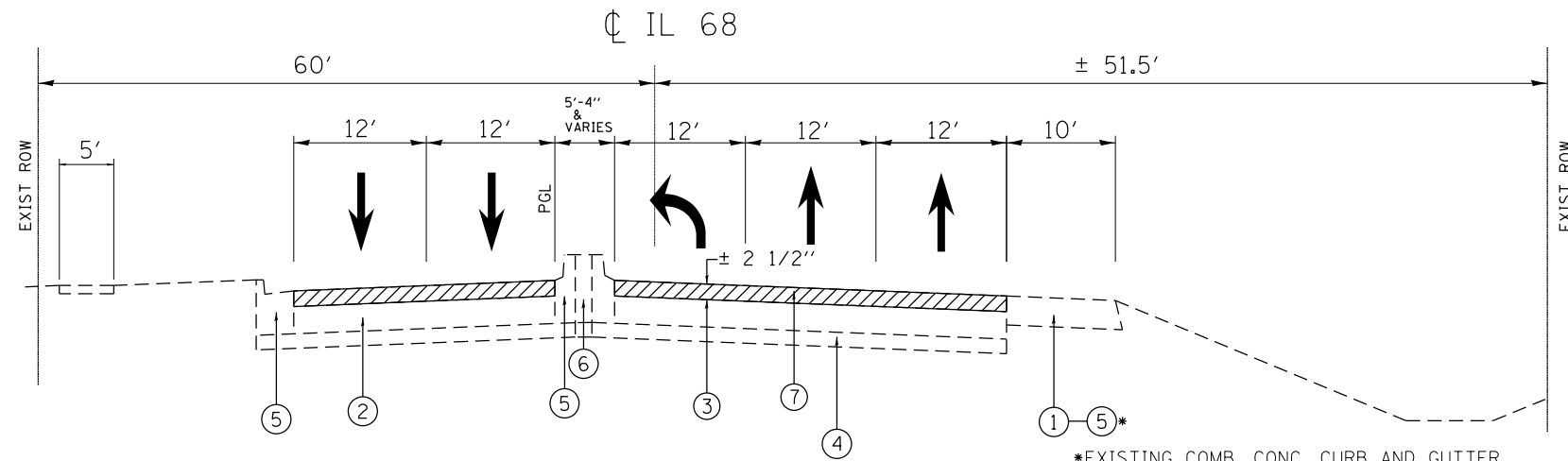
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS  
 QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY SPECIFICATION THAT APPLIES TO THE HMA MIXTURE

**NOTE:**

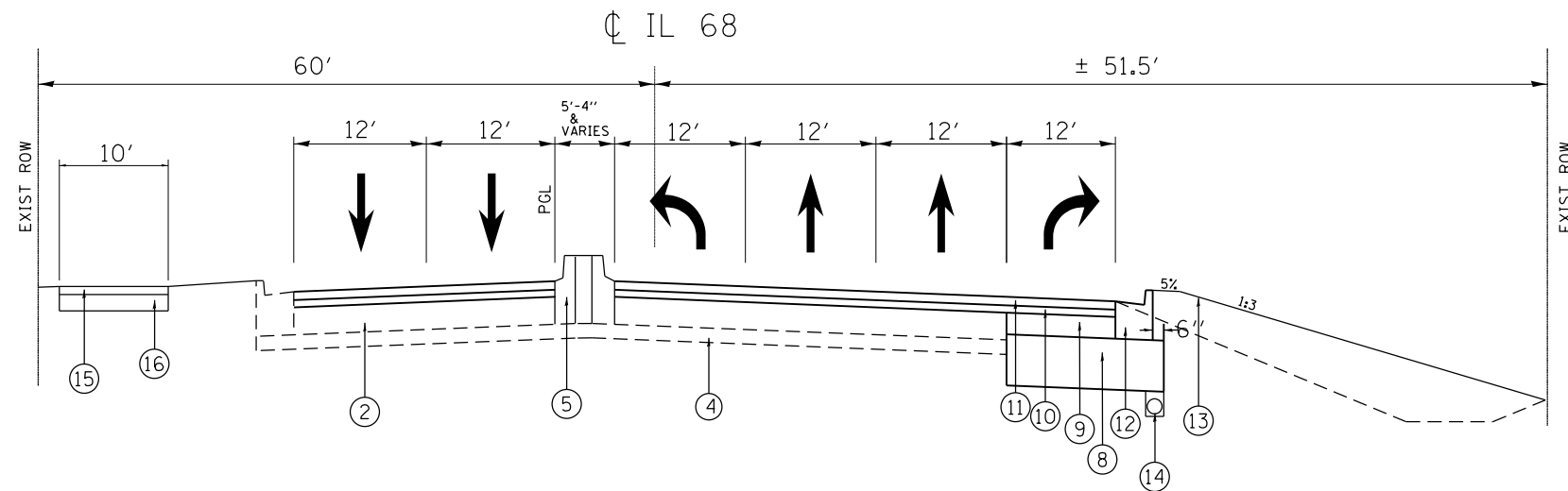
THE CONTRACTOR SHALL PATCH FIRST

FILE NAME = P124912-design.dgn	USER NAME = guillaumejp	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 68 AT WILKE RD. &amp; N KENNICOTT AVE. TYPICAL CROSS SECTIONS</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -				343	1531-4HBK&3041-15D-2-R1N	COOK	69	15	
		PLOT SCALE = 100.0000' / in.	CHECKED -		REVISED -	SCALE: NONE		SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 60V01
		PLOT DATE = 7/14/2015	DATE -		REVISED -	ILLINOIS FED. AID PROJECT						



**EXISTING TYPICAL SECTION**  
**IL 68 (DUNDEE RD. AT WILKE RD. (LOOKING EAST))**  
**STA. 500+00.00 TO STA. 515+31.50**

- LEGEND**
- ① EXISTING HMA SHOULDER 8"
  - ② EXISTING PCC PAVEMENT ±10"
  - ③ EXISTING HMA PAVEMENT ± 2 1/2"
  - ④ EXISTING STABILIZED SUB-BASE 4"
  - ⑤ EXISTING COMB CONC. CURB AND GUTTER, TYPE B-6.12
  - ⑥ EXISTING STABILIZED MEDIAN SURFACE
  - ⑦ PROPOSED HMA SURFACE REMOVAL, 2 1/2"
  - ⑧ PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
  - ⑨ PROPOSED HMA BASE COURSE, 7 1/4"
  - ⑩ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
  - ⑪ PROPOSED POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
  - ⑫ PROPOSED CURB AND GUTTER, B6.24 OR B6.12 (SEE PROP. PLAN)
  - ⑬ PROPOSED FURNISH & PLACE TOP SOIL, 6"
  - ⑭ PROP. PIPE UNDERDRAIN, 4" (STA. 497+50 TO 499+41 & STA. 509+80.5 TO STA. 511+05)
  - ⑮ PROP. HMA SURFACE COURSE, MIX "D", N50, 2"
  - ⑯ PROP. SUBBASE GRANULAR MATERIAL, TYPE B, 4"



**PROPOSED TYPICAL SECTION**  
**IL 68 (DUNDEE RD. AT WILKE RD. (LOOKING EAST))**  
**STA. 500+00.00 TO STA. 515+31.50**

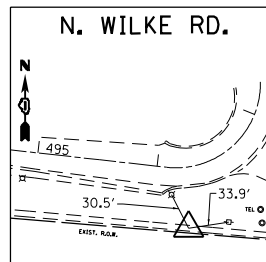
FILE NAME = P124912-design.dgn	USER NAME = guillaumejp	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 68 AT WILKE RD. &amp; N KENNICOTT AVE. TYPICAL CROSS SECTIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -					343	1531-4HBK&3041-15D-2-R1N	COOK	69	16
PLOT DATE = 7/14/2015	DATE -	REVISED -	SCALE: NONE		SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 60V01			
ILLINOIS FED. AID PROJECT												

## EARTHWORK SCHEDULE

IL RTE 68 AT N. WILKE RD. & KENNICOTT AVE.	EARTH EXCAVATION (CU. YD.)	TOP SOIL EXCAVATION (CU. YD.)	EXCAVATION USED AS EMBANKMENT (SHRINKAGE 15%) (CU. YD.)	EXCAVATION USED AS TOP SOIL EXCAVATION (SHRINKAGE 15%) (CU. YD.)	EMBANKMENT (CU. YD.)	TOP SOIL PLACEMENT (CU. YD.)	EARTH WORK BALANCE SURPLUS (+) OR SHORTAGE (-) (CU. YD.)	TOP SOIL BALANCE SURPLUS (+) OR SHORTAGE (-) (CU. YD.)
	1038	1274	882	1083	447	1250	435	-167
<b>TOTAL</b>	1038	1274	882	1083	447	1250	435	-167

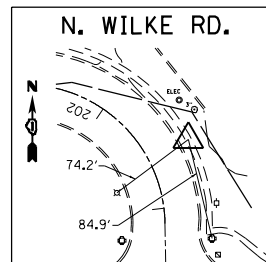
## TREE REMOVAL SCHEDULE

STATION	OFFSET/SIDE (FEET)	6 TO 15 UNIT (DIA.)	OVER 15 UNIT (DIA.)
509+58.81	33.14' RT	15	
509+92.46	52.56' RT	15	
510+04.33	33.31' RT	15	
510+57.55	33.54' RT	15	
<b>TOTAL</b>	<b>6 TO 15 UNIT DIA. = 60</b>		
	<b>OVER 15 UNIT DIA. = 0</b>		



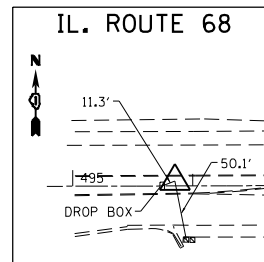
**CONTROL POINT #1**

"X" CUT IN SIDEWALK  
WILKE SOUTH  
STA. 198+25.68  
N=19933221.8756  
E=1074503.7553  
ELEV=730.006



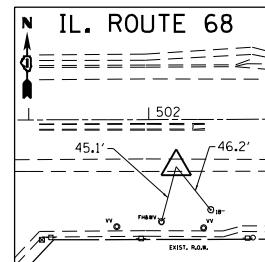
**CONTROL POINT #2**

"X" CUT IN SIDEWALK  
WILKE NORTH  
STA. 201+42.58  
N=19933621.0340  
E=1074597.4070  
ELEV=731.504



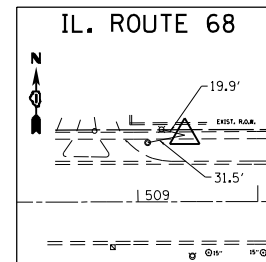
**CONTROL POINT #3**

"X" CUT IN MEDIAN  
IL 68 (WEST)  
STA. 495.85.03  
N=19933466.4921  
E=1074164.5575  
ELEV=730.975



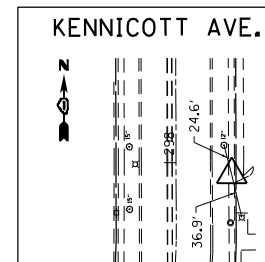
**CONTROL POINT #4**

SET MAG NAIL IN SOUTH  
SHOULDER OF IL 68  
STA. 502+22.78  
N=19933425.1224  
E=1074802.2864  
ELEV=734.577



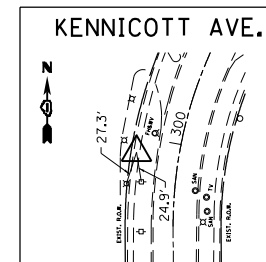
**CONTROL POINT #5**

"X" CUT IN SIDEWALK  
NORTH SIDE IL 68  
STA. 509+39.16  
N=19933521.8230  
E=1075518.3934  
ELEV=745.345



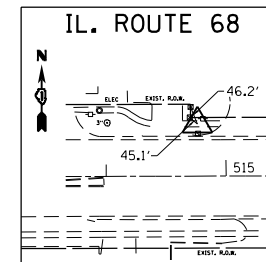
**CONTROL POINT #6**

"X" CUT IN SIDEWALK  
KENNICOTT (SOUTH, EAST)  
STA. 297+89.93  
N=19933257.2750  
E=1075809.6531  
ELEV=740.089



**CONTROL POINT #7**

"X" CUT IN SIDEWALK  
KENNICOTT (NORTH, EAST)  
STA. 302+87.80  
N=19933760.2891  
E=1075731.2252  
ELEV=744.006

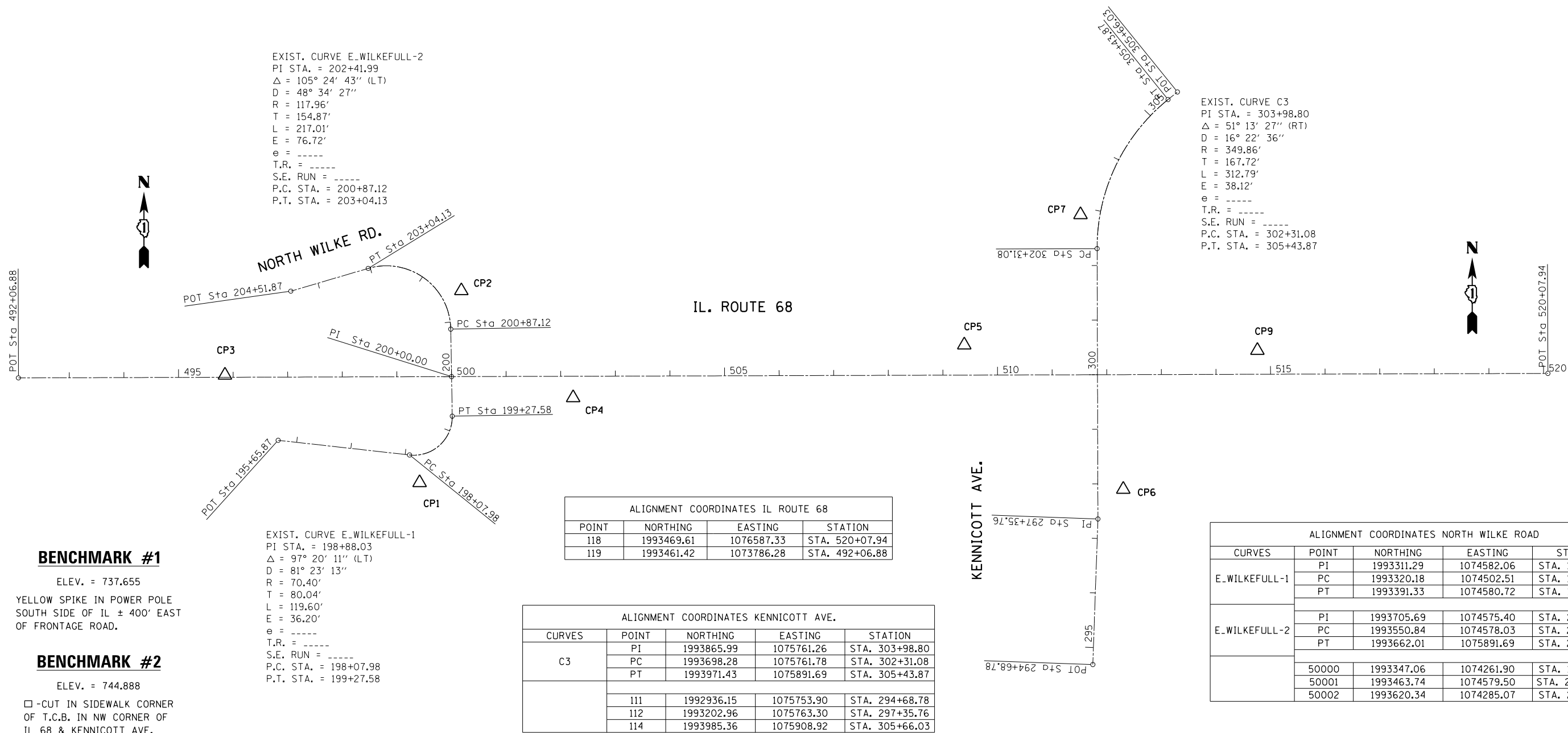


**CONTROL POINT #9**

"X" CUT IN SIDEWALK  
IL 68 (NORTH SIDE)  
STA. 514+76.14  
N=19933511.6347  
E=1076055.4001  
ELEV=739.538

EXIST. CURVE E\_WILKEFULL-2  
PI STA. = 202+41.99  
 $\Delta = 105^\circ 24' 43''$  (LT)  
D = 48° 34' 27"  
R = 117.96'  
T = 154.87'  
L = 217.01'  
E = 76.72'  
e = -----  
T.R. = -----  
S.E. RUN = -----  
P.C. STA. = 200+87.12  
P.T. STA. = 203+04.13

EXIST. CURVE C3  
PI STA. = 303+98.80  
 $\Delta = 51^\circ 13' 27''$  (RT)  
D = 16° 22' 36"  
R = 349.86'  
T = 167.72'  
L = 312.79'  
E = 38.12'  
e = -----  
T.R. = -----  
S.E. RUN = -----  
P.C. STA. = 302+31.08  
P.T. STA. = 305+43.87



**BENCHMARK #1**

ELEV. = 737.655  
YELLOW SPIKE IN POWER POLE  
SOUTH SIDE OF IL ± 400' EAST  
OF FRONTAGE ROAD.

**BENCHMARK #2**

ELEV. = 744.888  
□ -CUT IN SIDEWALK CORNER  
OF T.C.B. IN NW CORNER OF  
IL 68 & KENNICOTT AVE.

EXIST. CURVE E\_WILKEFULL-1  
PI STA. = 198+88.03  
 $\Delta = 97^\circ 20' 11''$  (LT)  
D = 81° 23' 13"  
R = 70.40'  
T = 80.04'  
L = 119.60'  
E = 36.20'  
e = -----  
T.R. = -----  
S.E. RUN = -----  
P.C. STA. = 198+07.98  
P.T. STA. = 199+27.58

ALIGNMENT COORDINATES IL ROUTE 68			
POINT	NORTHING	EASTING	STATION
118	1993469.61	1076587.33	STA. 520+07.94
119	1993461.42	1073786.28	STA. 492+06.88

ALIGNMENT COORDINATES KENNICOTT AVE.				
CURVES	POINT	NORTHING	EASTING	STATION
C3	PI	1993865.99	1075761.26	STA. 303+98.80
	PC	1993698.28	1075761.78	STA. 302+31.08
	PT	1993971.43	1075891.69	STA. 305+43.87
	111	1992936.15	1075753.90	STA. 294+68.78
	112	1993202.96	1075763.30	STA. 297+35.76
	114	1993985.36	1075908.92	STA. 305+66.03

ALIGNMENT COORDINATES NORTH WILKE ROAD				
CURVES	POINT	NORTHING	EASTING	STATION
E_WILKEFULL-1	PI	1993311.29	1074582.06	STA. 198+88.03
	PC	1993320.18	1074502.51	STA. 198+07.98
	PT	1993391.33	1074580.72	STA. 199+27.58
E_WILKEFULL-2	PI	1993705.69	1074575.40	STA. 202+41.99
	PC	1993550.84	1074578.03	STA. 200+87.12
	PT	1993662.01	1075891.69	STA. 203+04.13
	50000	1993347.06	1074261.90	STA. 195+65.87
	50001	1993463.74	1074579.50	STA. 200+00.00
	50002	1993620.34	1074285.07	STA. 204+51.87

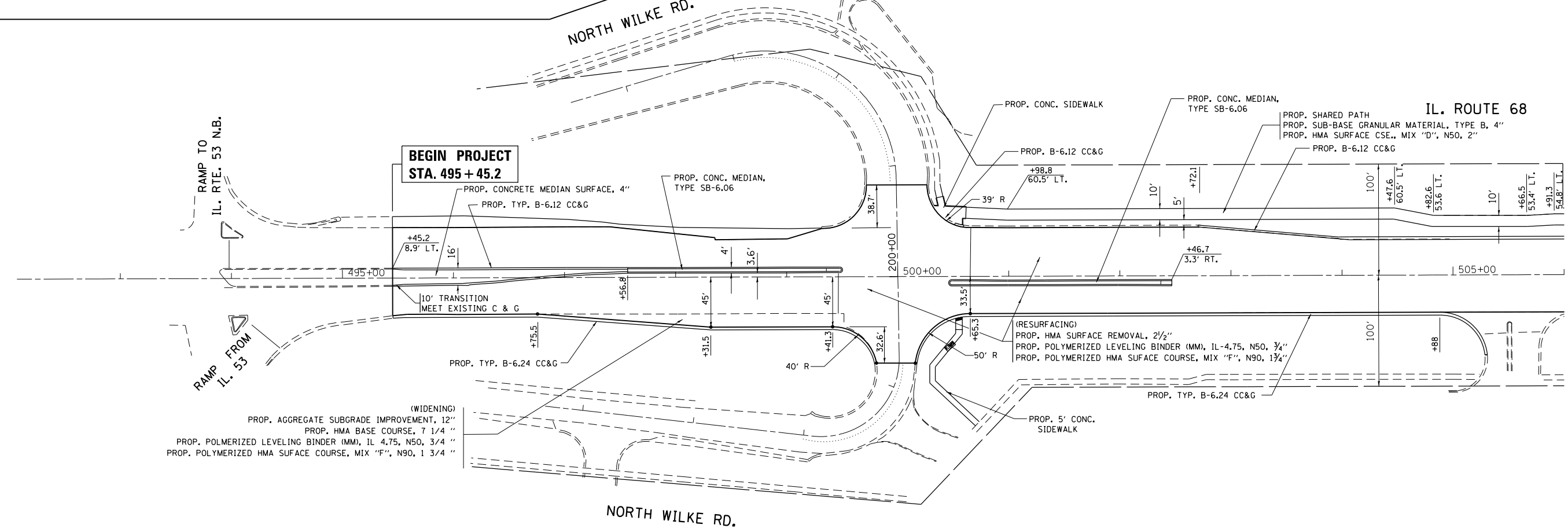
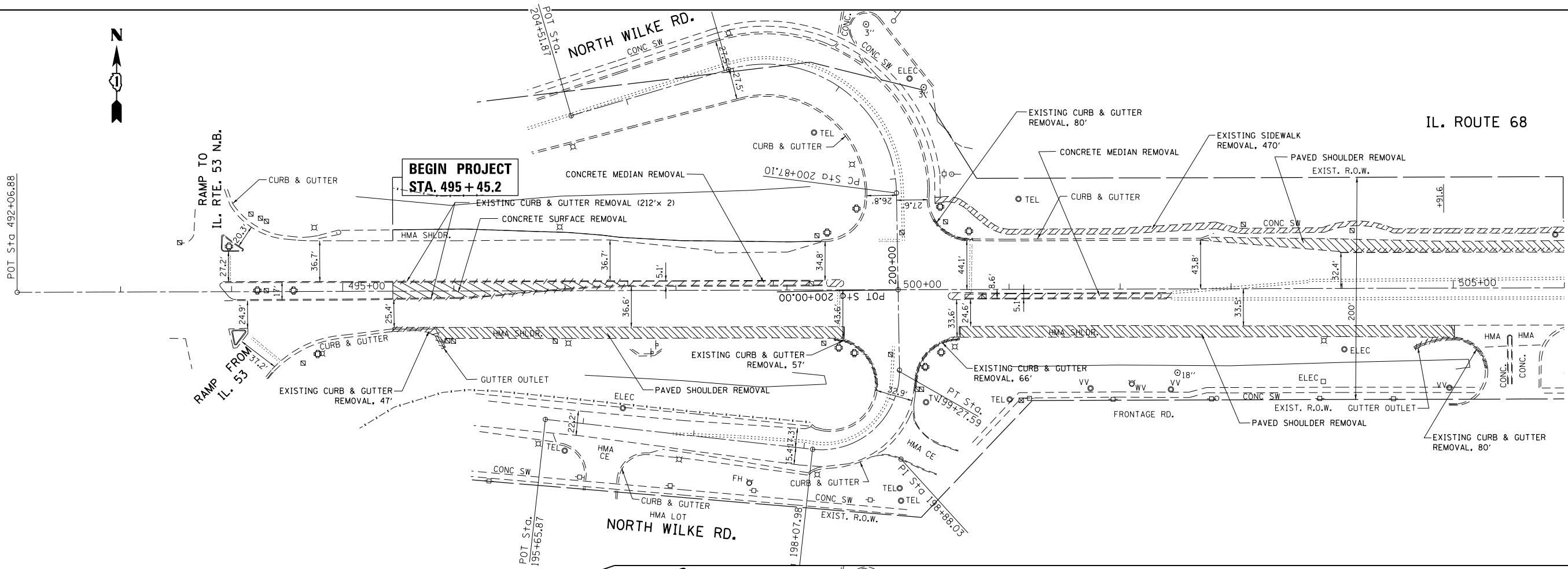
FILE NAME =	USER NAME = guillaumejp	DESIGNED -	REVISED -
p:\IL\084EBID\INTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI24912\Drawings\CAD\Sheets\PI24912-sht-ATB.dgn		REVISOR -	REVISOR -
Default	PLOT SCALE = 200.0000' / in.	CHECKED -	REVISOR -
	PLOT DATE = 7/14/2015	DATE -	REVISOR -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENTS, TIES AND BENCHMARKS  
IL 68 at WILKE and KENNICOTT**

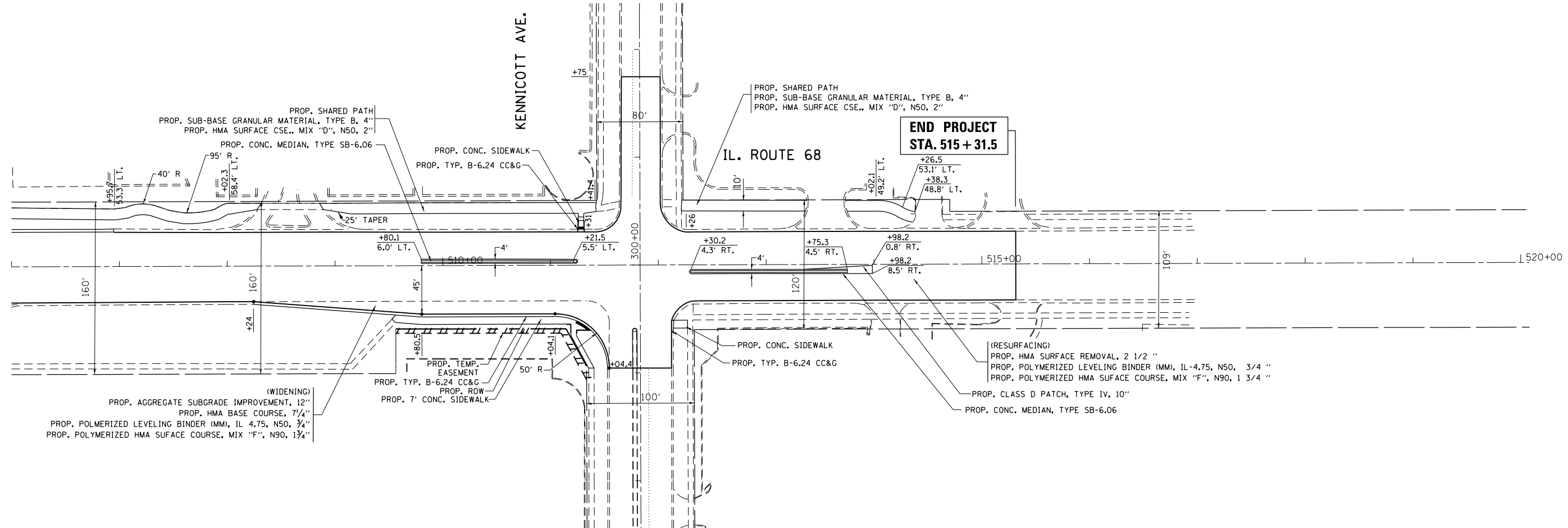
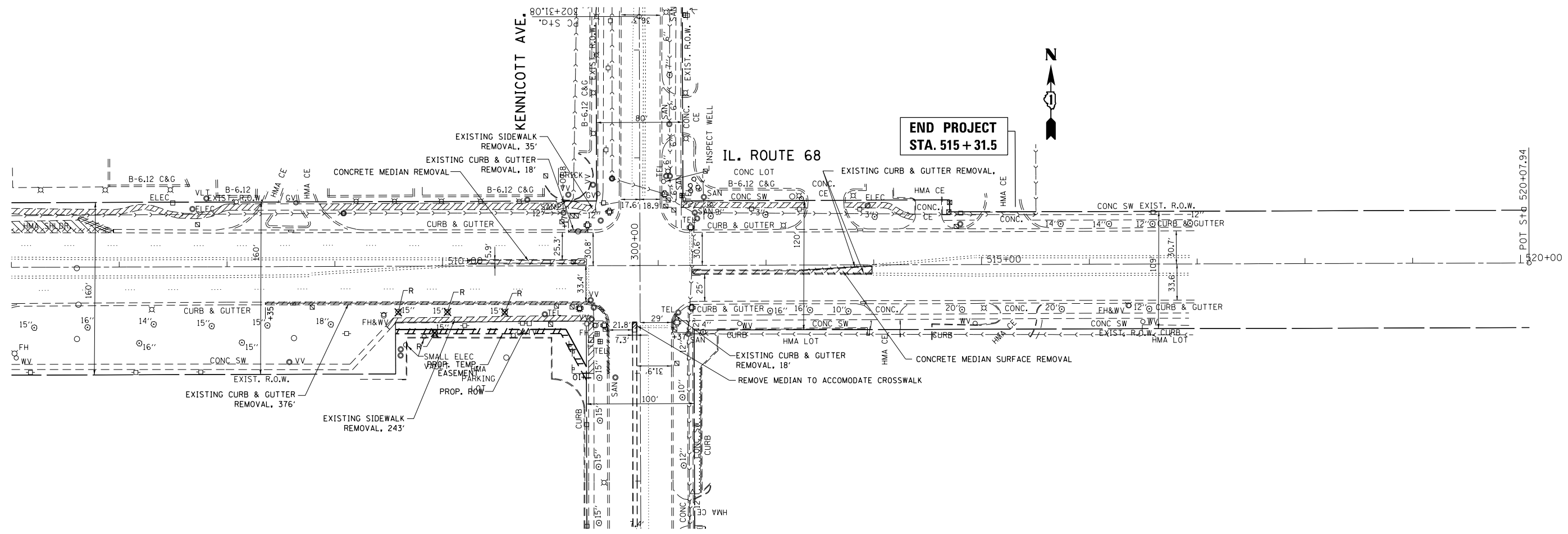
SCALE: 1" = 100' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK & 3041-15-D-2-RN)	COOK	69	18
CONTRACT NO. 60V01				
ILLINOIS FED. AID PROJECT				



(WIDENING)  
 PROP. AGGREGATE SUBGRADE IMPROVEMENT, 12"  
 PROP. HMA BASE COURSE, 7 1/4"  
 PROP. POLYMERIZED LEVELING BINDER (MM), IL 4.75, N50, 3/4"  
 PROP. POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"

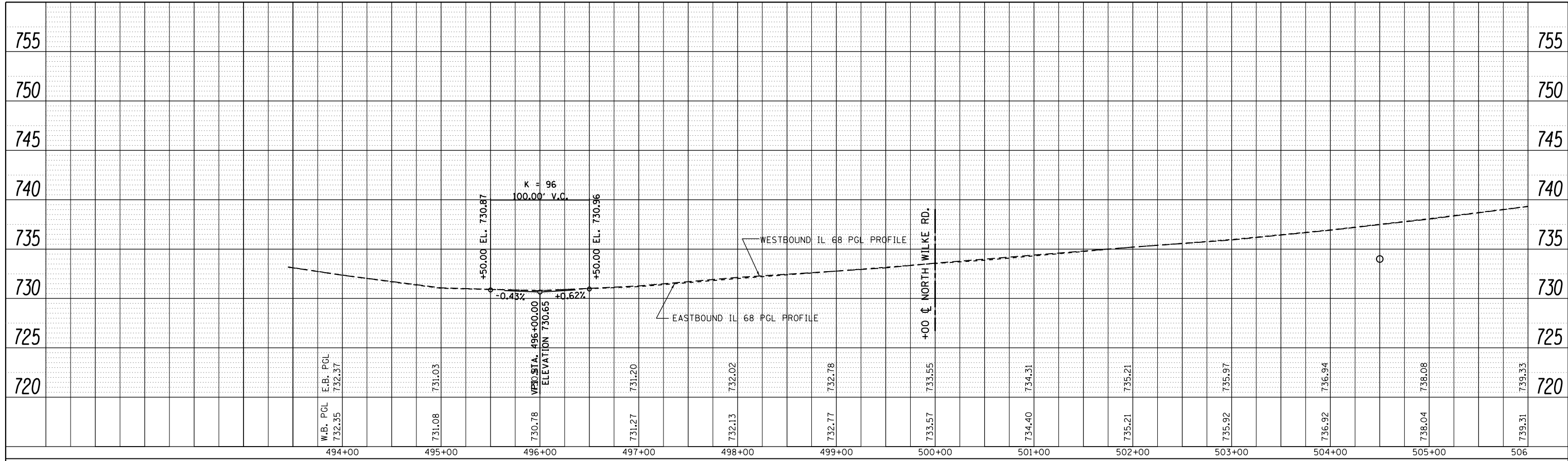
FILE NAME =	USER NAME = guillaumefp	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL. 68 at WILKE and KENNICOT ROADWAY PLAN</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\1\084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI24912\Drawings\CAD\Sheets\PI24912-sht-pln\pfr.dwg	PLLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			343	(531-4HBK & 3041-15-D-2-RN)	COOK	69	19
Default	PLLOT DATE = 7/14/2015	DATE -	REVISED -			CONTRACT NO. 60V01				
						ILLINOIS FED. AID PROJECT				
					SCALE: 1"=50'	SHEET OF SHEETS		STA. 495+45.2 TO STA. 506+00		



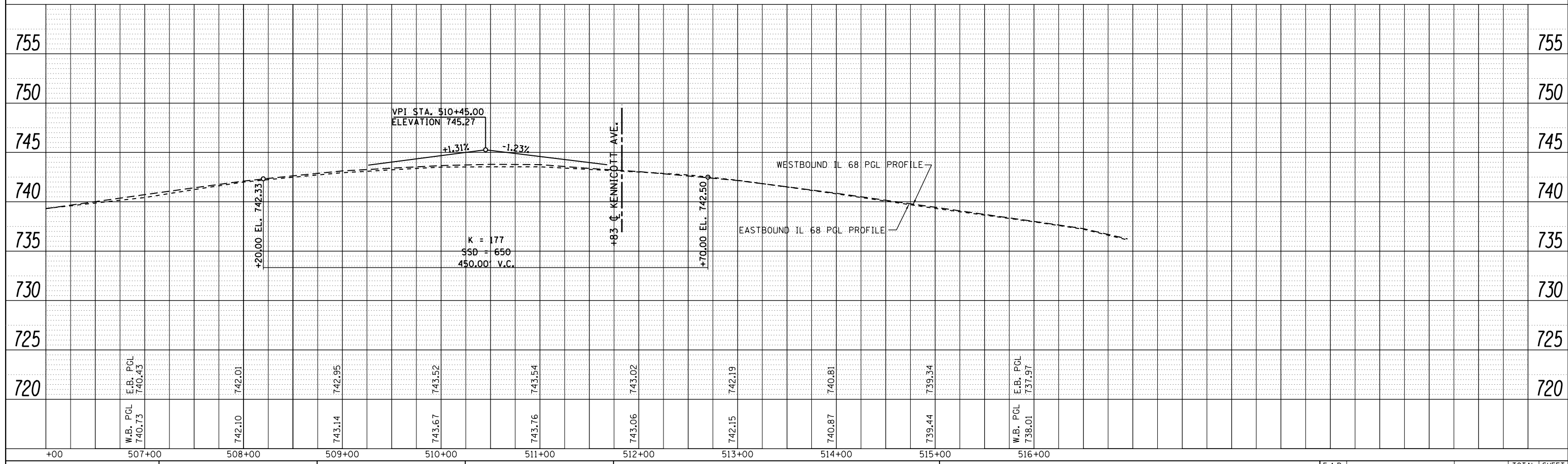
FILE NAME =	USER NAME = guillaumejp	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 68 at WILKE and KENNICOT ROADWAY PLAN</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default		CHECKED -	REVISED -			343	(531-4HBK & 3041-15-D-2-RN)	COOK	69	20	
		DATE -	REVISED -			<b>CONTRACT NO. 60V01</b>					
						ILLINOIS FED. AID PROJECT					

SCALE: 1"=50' SHEET OF SHEETS STA. 506+00 TO STA. 515+31.5

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CARD FILE NAME		



PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CARD FILE NAME		



FILE NAME =	USER NAME = guillaumefp	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL 68 at WILKE and KENNICOTT</b> <b>ROADWAY PROFILE &amp; PROFILE</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	Plot Scale = 100.0000' / in.	CHECKED -	REVISED -			343	(531-4HBK & 3041-15-D-2-RN)	COOK	69	21	
	PLOT DATE = 7/14/2015	DATE -	REVISED -			CONTRACT NO. 60V01					
						ILLINOIS FED. AID PROJECT					

SCALE: 1"=5' V  
SCALE: 1"=50' H SHEET OF SHEETS STA. 495+45.2 TO STA. 515+31.5



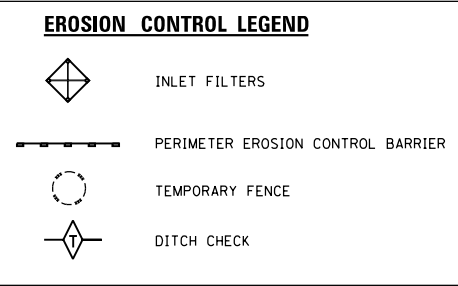
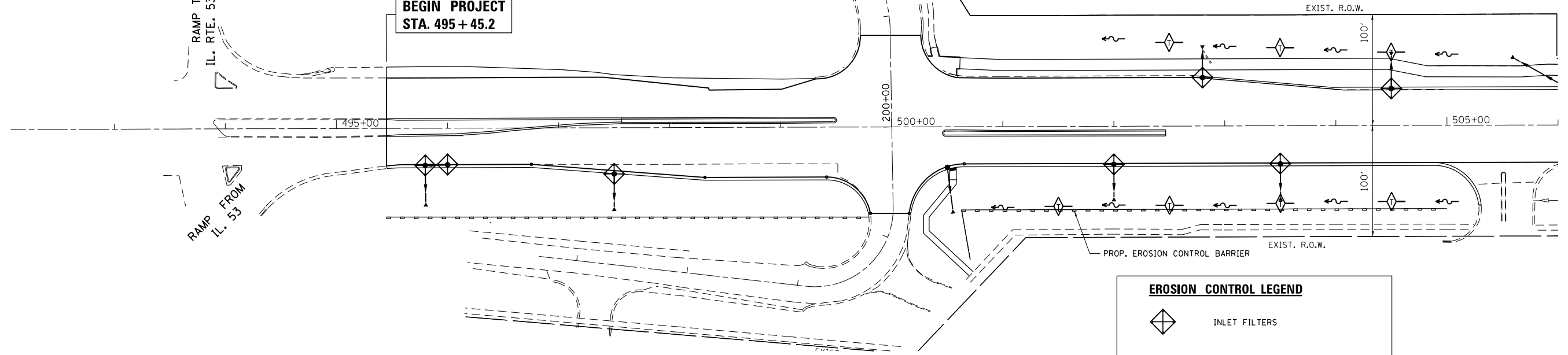
NORTH WILKE RD.

IL. ROUTE 68

RAMP TO  
IL. RTE. 53 N.B.

BEGIN PROJECT  
STA. 495 + 45.2

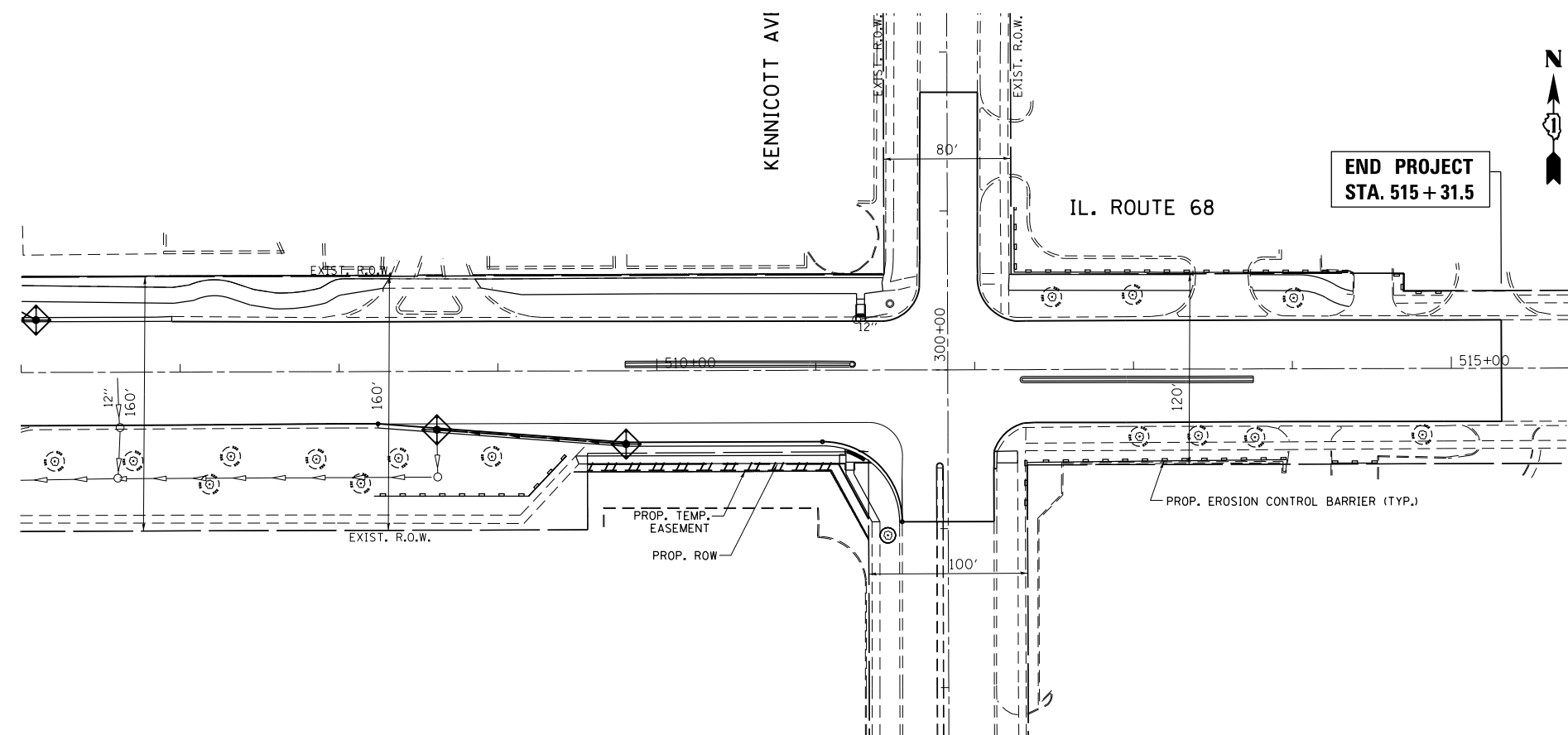
RAMP FROM  
IL. 53



KENNICOTT AVI

IL. ROUTE 68

END PROJECT  
STA. 515 + 31.5



**EROSION CONTROL GENERAL NOTES**

1. TEMPORARY EROSION CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS.
2. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN STORM DRAIN INLET FILTERS AND PIPE PROTECTION AT ALL DRAINAGE STRUCTURES AND AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. INLET PROTECTION SHALL BE PLACED IMMEDIATELY AFTER THE AREA INVOLVED HAS BEEN DISTURBED.
3. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE STATE STANDARD FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH TIME AS DIRECTED BY THE ENGINEER.
4. PERIMETER EROSION BARRIER SHALL BE PLACED 12 INCHES FROM THE R.O.W. OR EASEMENT LINE AS DIRECTED BY THE ENGINEER.
5. AT ANY AREA WHERE THERE IS NO PROPOSED GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
6. DURING CONSTRUCTION AND WHEN ERODIBLE SOILS ARE EXPOSED, ALL DRAINAGE STRUCTURES NOT PROTECTED WITH INLET OR PIPE PROTECTION SHALL BE KEPT SEALED TO PREVENT ACCESS FROM EROSION. THIS WORK SHALL BE CONSIDERED AS PART OF THE COST OF THE VARIOUS DRAINAGE STRUCTURES.
7. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATION NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH POTENTIALLY CREATE ERODIBLE CONDITIONS.
8. THE EROSION CONTROL MEASURES SHOWN ARE BUT A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THE PLANS ARE TO BE EXPECTED PENDING A JOBSITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
9. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN SEDIMENT CONTROL MEASURES PRIOR TO STRIPPING EXISTING VEGETATION.
10. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW OR WASTE/USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR WILL NEED TO SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION 11.5.A AND B OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

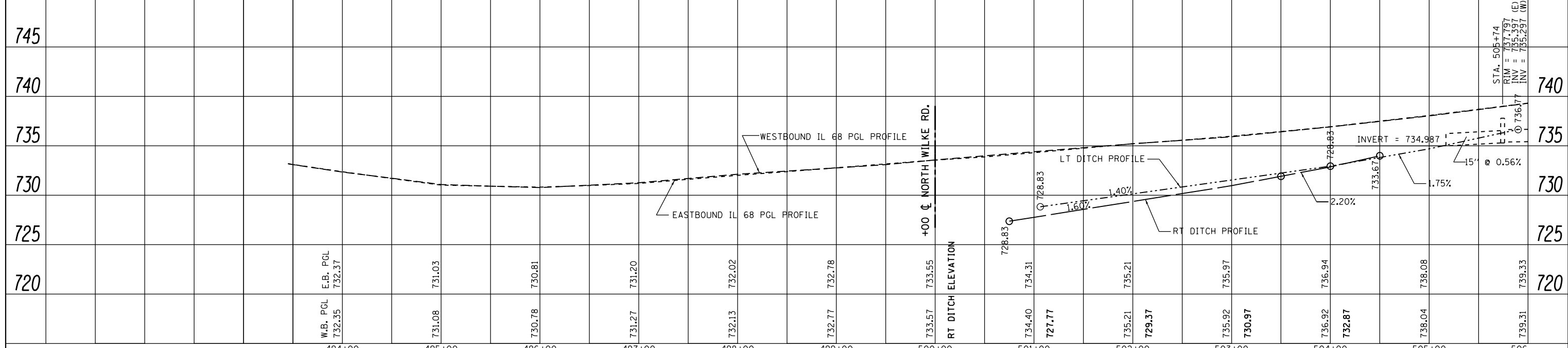
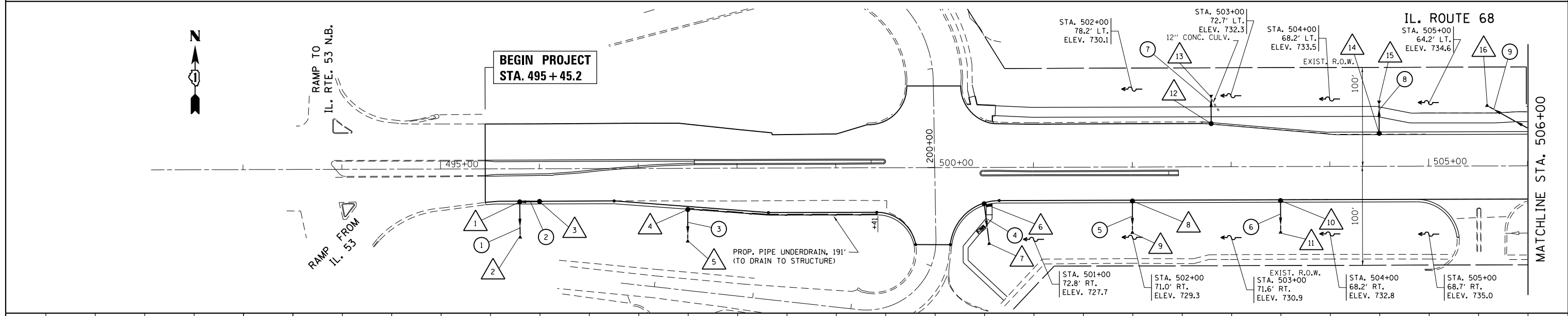
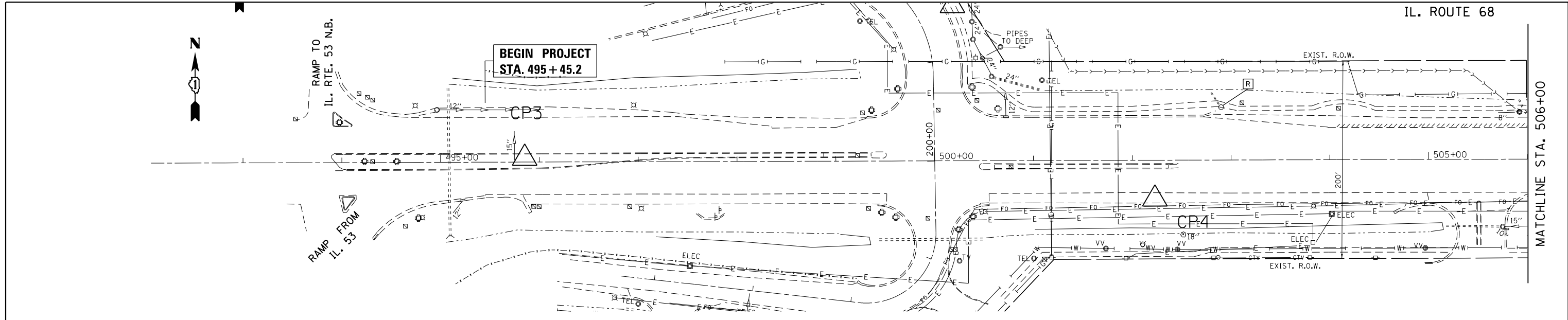
FILE NAME =	USER NAME = guillaumefp	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL. ROUTE 68 at WILKE AND KENNICOTT PROPOSED EROSION CONTROL PLAN</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBID\INTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\PI24912\Drawings\CAD\Sheets\PI24912-sh-eros.dgn	PLLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			343	(531-4HBK & 3041-15-D-2-RN)	COOK	69	22
Default	PLLOT DATE = 7/14/2015	DATE -	REVISED -			<b>CONTRACT NO. 60V01</b>				
						ILLINOIS FED. AID PROJECT				

SCALE: 1"=50' SHEET OF SHEETS STA. 495+45.2 TO STA. 515+31.5



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

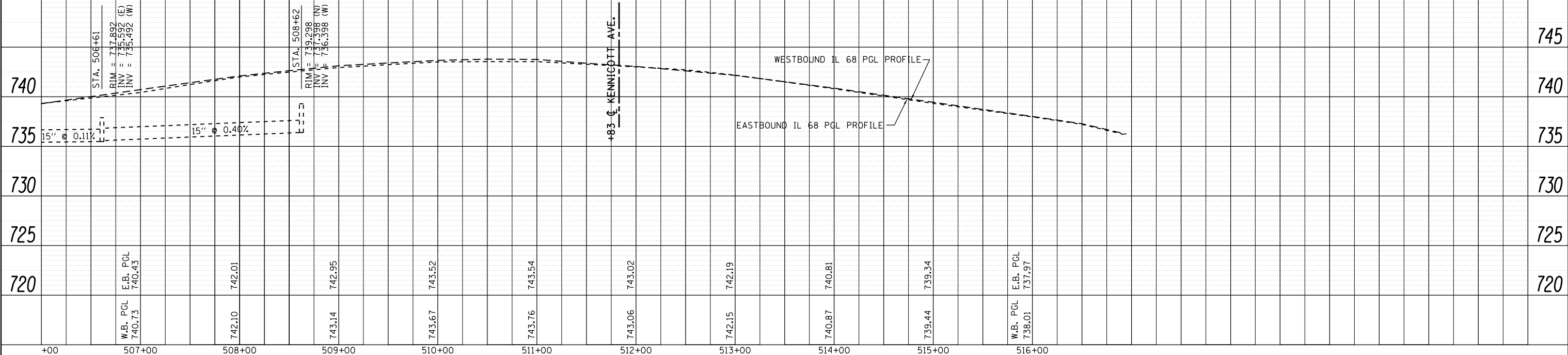
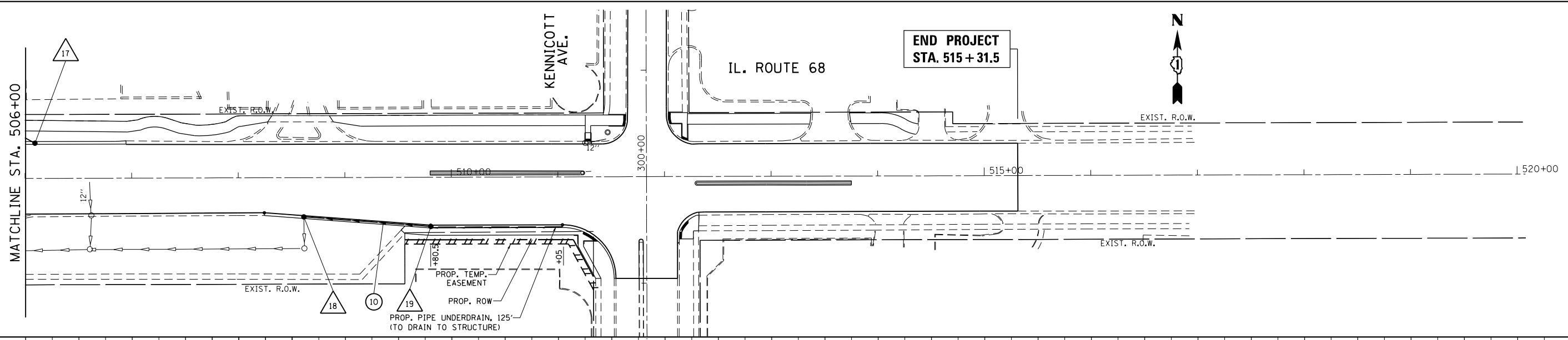
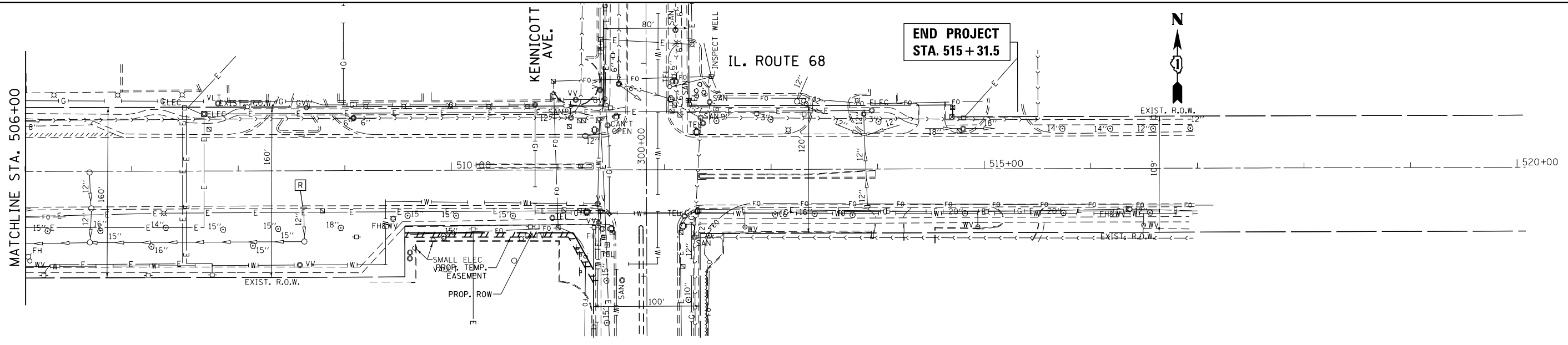
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE		
	NOTATIS		
	CHKD		



FILE NAME =	USER NAME = guillaumefp	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL 68 at WILKE and KENNICOTT</b> <b>DRAINAGE PLAN AND PROFILE</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default		CHECKED -	REVISED -			343	(531-4HBK & 3041-15-D-2-RN)	COOK	69	23	
		DATE -	REVISED -			CONTRACT NO. 60V01					
						ILLINOIS FED. AID PROJECT					

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO. _____	
	DATE _____	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO. _____	
	DATE _____	



FILE NAME =	USER NAME = guillaumejp	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL. ROUTE 68 AT N. WILKE RD. AND KENNICOTT AVE.</b> <b>DRAINAGE PLAN AND PROFILE</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED -			343	(531-4HBK & 3041-15-D-2-RW)	COOK	69	24	
		CHECKED -	REVISED -			CONTRACT NO. 60V01					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

1 C.B., TYPE A, W/ TYPE 24 F&G  
 STA. 495+79, 33.4' RT.  
 T.O.G. = 730.2  
 INV. = 723.50 (S)  
 INV. 724.00 (E)

9 REINFORCED CONCRETE FLARED  
 END SECTION, 12"  
 STA. 502+00, 63.8' RT.  
 INV. = 730.05

17 C.B., TYPE C, W/ TYPE 24 F&G  
 STA. 506+08.8, 33.4' LT.  
 T.O.G. = 739.1  
 INV. = 736.8 (W)

2 REINFORCED CONCRETE FLARED  
 END SECTION, 12"  
 STA. 495+79, 66.8' RT.  
 INV. = 723.00

10 C.B., TYPE C, W/ TYPE 24 F&G  
 STA. 503+50, 34.3' RT.  
 T.O.G. = 735.90  
 INV. = 732.30

18 C.B., TYPE A, W/ TYPE 24 F&G  
 STA. 508+62, 36.8' RT.  
 T.O.G. = 742.0  
 INV. = 738.60 (S)  
 INV. 739.00 (E)

3 C.B., TYPE C, W/ TYPE 24 F&G  
 STA. 496+00, 33.0' RT.  
 T.O.G. = 730.3  
 INV. = 724.50 (W)

11 REINFORCED CONCRETE FLARED  
 END SECTION, 12"  
 STA. 503+50, 63.9' RT.  
 INV. = 732.00

19 C.B., TYPE C, W/ TYPE 24 F&G  
 STA. 509+80.5, 46.2' RT.  
 T.O.G. = 742.6  
 INV. = 739.50 (W)

4 C.B., TYPE C, W/ TYPE 24 F&G  
 STA. 497+50, 41.6' RT.  
 T.O.G. = 731.0  
 INV. = 724.00

12 C.B., TYPE C, W/ TYPE 24 F&G  
 STA. 502+80, 43.6' LT.  
 T.O.G. = 735.00  
 INV. = 732.20

5 REINFORCED CONCRETE FLARED  
 END SECTION, 12"  
 STA. 497+50, 71.3' RT.  
 INV. = 724.50

13 REINFORCED CONCRETE FLARED  
 END SECTION, 12"  
 STA. 502+80, 68.9' LT.  
 INV. = 732.00

6 C.B., TYPE C, W/ TYPE 24 F&G  
 STA. 500+50, 36.7' RT.  
 T.O.G. = 733.4  
 INV. = 727.50

14 C.B., TYPE C, W/ TYPE 24 F&G  
 STA. 504+50, 33.3' LT.  
 T.O.G. = 737.00  
 INV. = 734.00

7 REINFORCED CONCRETE FLARED  
 END SECTION, 12"  
 STA. 500+54.8, 74.6' RT.  
 INV. = 727.00

15 REINFORCED CONCRETE FLARED  
 END SECTION, 12"  
 STA. 504+50, 62.5' LT.  
 INV. = 733.50

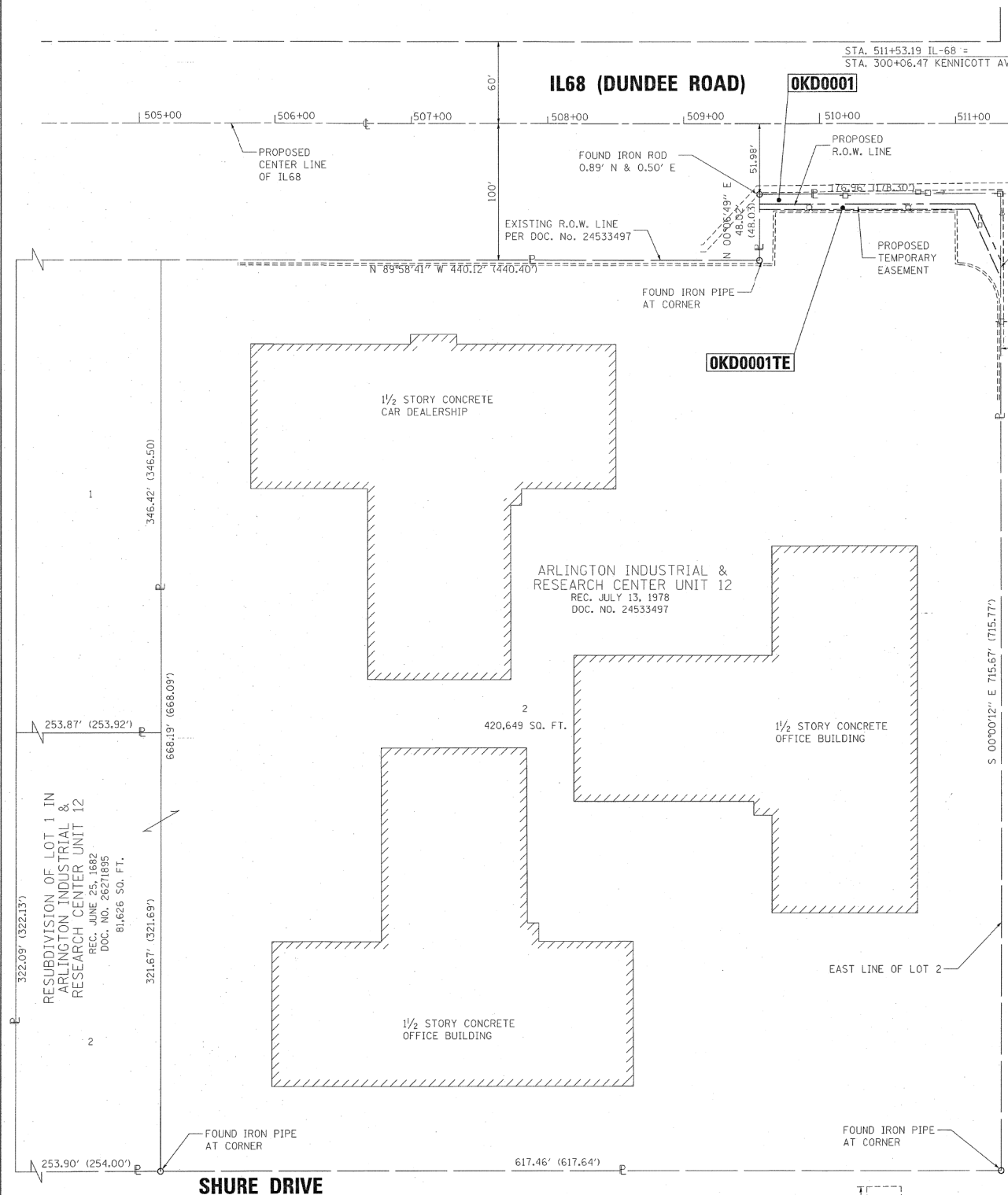
8 C.B., TYPE C, W/ TYPE 24 F&G  
 STA. 502+00, 34.3' RT.  
 T.O.G. = 734.6  
 INV. = 730.00

16 REINFORCED CONCRETE FLARED  
 END SECTION, 12"  
 STA. 505+61.4, 59.7' LT.  
 INV. = 736.50

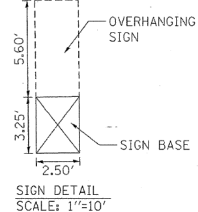
- 1 STORM SEWER, CLASS A, TYPE 1, 12", 33'
- 2 STORM SEWER, CLASS A, TYPE 1, 12", 20'  
TBF = 5.0 CY
- 3 STORM SEWER, CLASS A, TYPE 1, 12", 30'
- 4 STORM SEWER, CLASS A, TYPE 1, 12", 38'
- 5 STORM SEWER, CLASS A, TYPE 1, 12", 30'
- 6 STORM SEWER, CLASS A, TYPE 1, 12", 30'
- 7 STORM SEWER, CLASS A, TYPE 1, 12", 25'  
TBF = 6.0 CY
- 8 STORM SEWER, CLASS A, TYPE 1, 12", 30'  
TBF = 7.1 CY
- 9 STORM SEWER, CLASS A, TYPE 1, 12", 55'  
TBF = 13.0 CY
- 10 STORM SEWER, CLASS A, TYPE 1, 12", 118.5'  
TBF = 28.0 CY

FILE NAME =	USER NAME = guillaumefp	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL. ROUTE 68 AT N. WILKE RD. AND KENNICOTT AVE. DRAINAGE STRUCTURES AND PIPE TABLES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\P124912\Drawings\CAD\Sheets\P124912-shd-drain.dwg	PLLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			343	(531-4HBK & 3041-15-D-2-RN)	COOK	69	25
Default	PLLOT DATE = 9/22/2015	DATE -	REVISED -			CONTRACT NO. 60V01				
						SCALE: NONE	SHEET	OF	SHEETS	STA.

PART OF THE N.W. 1/4 OF SECTION 7, TWP. 42 N., R. 11 E. OF THE 3RD. P.M., IN COOK COUNTY, ILLINOIS.



PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA		PARCEL INDEX NUMBER
					ACRES	SQUARE FEET	
OKD0001	11.531	0.039	N/A	11.492	0	N/A	03-07-102-007 03-07-102-011
OKD0001TE		N/A	N/A		0.021	N/A	



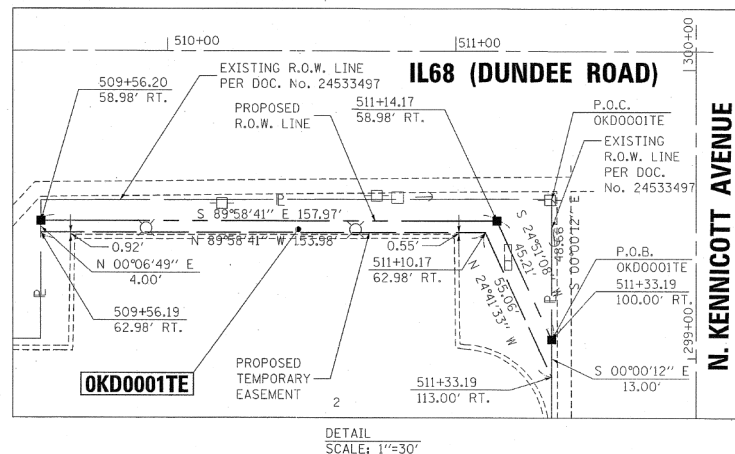
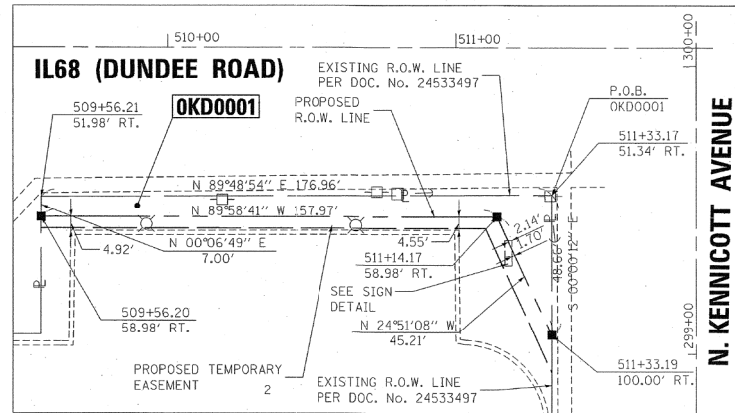
- NOTES:
- ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
  - BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT), "GRID".
  - ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.999984424
  - AREAS SHOWN ON THIS PLAT ARE GROUND.

PROJECT COORDINATES  
ILLINOIS STATE PLANE, EAST ZONE, NAD83 (2011)  
OKD0001 COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
511+33.17	51.34' RT.	1,993,381.807	1,075,696.073
511+33.19	100.00' RT.	1,993,333.148	1,075,696.076
511+14.17	58.98' RT.	1,993,374.175	1,075,677.074
509+56.20	58.98' RT.	1,993,374.236	1,075,519.103
509+56.21	51.98' RT.	1,993,381.236	1,075,519.117

PROJECT COORDINATES  
ILLINOIS STATE PLANE, EAST ZONE, NAD83 (2011)  
OKD0001TE COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
511+33.19	100.00' RT.	1,993,333.148	1,075,696.076
511+33.19	113.00' RT.	1,993,320.148	1,075,696.077
511+10.17	62.98' RT.	1,993,370.176	1,075,673.074
509+56.19	62.98' RT.	1,993,370.236	1,075,519.096
509+56.20	58.98' RT.	1,993,374.236	1,075,519.103
511+14.17	58.98' RT.	1,993,374.175	1,075,677.074



LEGEND

STATE OF ILLINOIS )  
COUNTY OF COOK )

THIS IS TO CERTIFY THAT WE, ENVIRONMENTAL DESIGN INTERNATIONAL, INC. AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-001224, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 7, TOWNSHIP 42 NORTH, RANGE 11 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 DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT Chicago ILLINOIS THIS 9 DAY OF July 2015 A.D.

STEVEN BARCZAK, PLS  
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035.003269  
LICENSE EXPIRATION DATE: 11/30/2016

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



**EDI** Environmental Design International Inc.  
Civil, Survey, Environmental and Construction Inspection Services  
33 W. MONROE STREET, SUITE 1825, CHICAGO, IL 60603  
Ph: (312) 345-1400 Fax: (312) 345-0529  
www.ediintl.com MBE/WBE/OBE

**PLAT OF HIGHWAYS**  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
IL68 (DUNDEE ROAD)

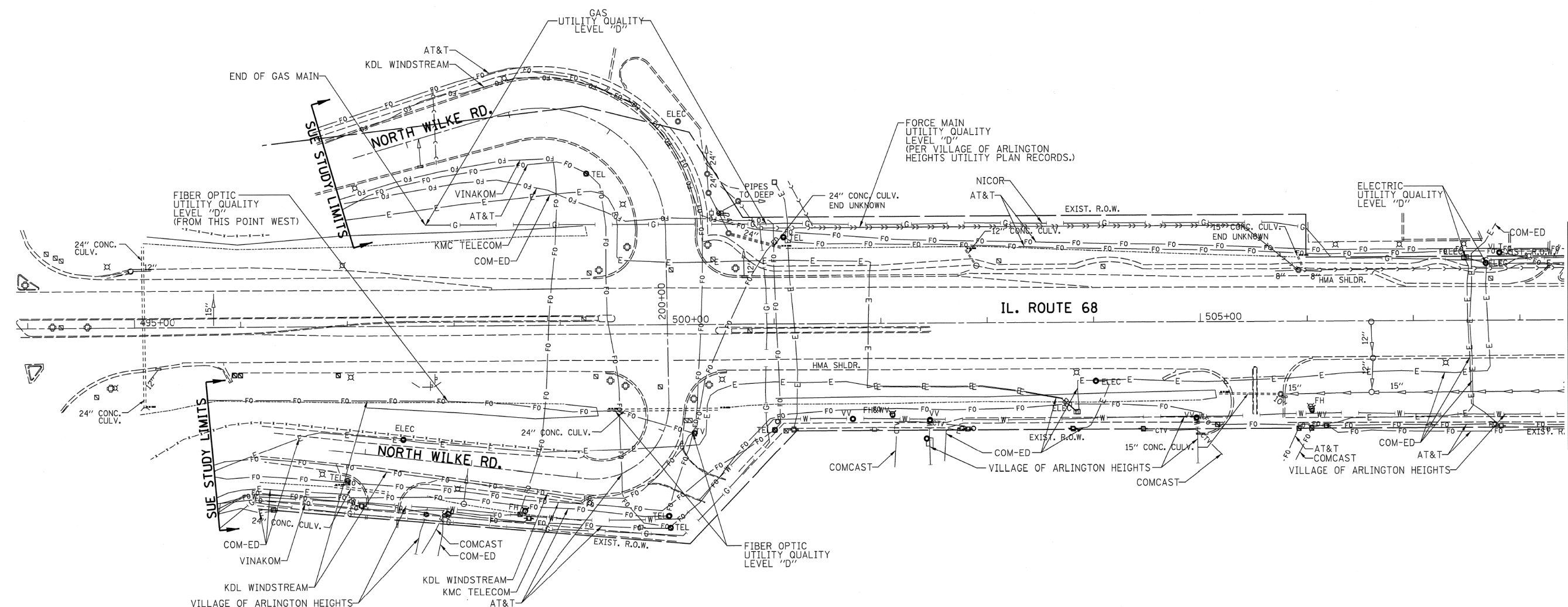
LIMITS: IL-68 (DUNDEE RD) COUNTY: COOK  
SECTION: STA. 509+56.19 TO STA. 511+33.19 JOB NO.: R-90-019-13  
SCALE: 1" = 50' SHEET 2 OF 2 SHEETS

RECEIVED  
JUL 09 2015  
PLATS & LEGALS

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK&3041-15D-2-RIN	COOK	69	26

CONTRACT NO. 60V01  
ILLINOIS FED. AID PROJECT

REVISION DATE: / / REVISION MADE BY:

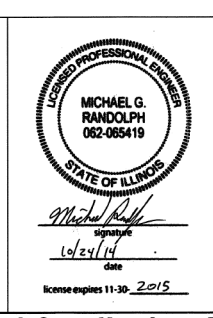


— A — A —	AERIAL
- - - - -	UNKNOWN
— O — O —	OIL
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
— FO — FO —	FIBER OPTIC
—>>>>>	FORCE MAIN
—●—	TBE TEST HOLE

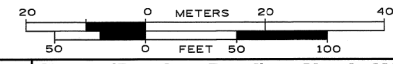
UTILITY OWNERS	
AT&T - FIBER OPTIC	AT&T - TELEPHONE
COMCAST - CABLE TV	COM-ED - ELECTRIC
KDL WINDSTREAM - FIBER OPTIC	KMC TELECOM - FIBER OPTIC
MCI - FIBER OPTIC	NICOR - GAS
NORTHWEST WATER COMMISSION - WATER	VILLAGE OF ARLINGTON HEIGHTS - FORCE MAIN
VILLAGE OF ARLINGTON HEIGHTS - WATER	VILLAGE OF ARLINGTON HEIGHTS - WATER
VINAKOM - FIBER OPTIC	

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed 9/22/14 through 10/10/14. Changes to utilities after 10/10/14 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.

ALL UTILITIES SHOWN QUALITY LEVEL "B"  
UNLESS NOTED OTHERWISE.



TBE Job No. IL09510617, 632  
SUE Plan Pages: 1 of 3



Utility Quality Level "A" : Visually Verified Test Hole	DESIGNED MS	REVISED
Utility Quality Level "B" : Designating/non Visually Verified Test Hole	DRAWN SRK	REVISED
Utility Quality Level "C" : Research with Survey	CHECKED MGR	REVISED
Utility Quality Level "D" : Records Research	DATE 10/16/14	REVISED

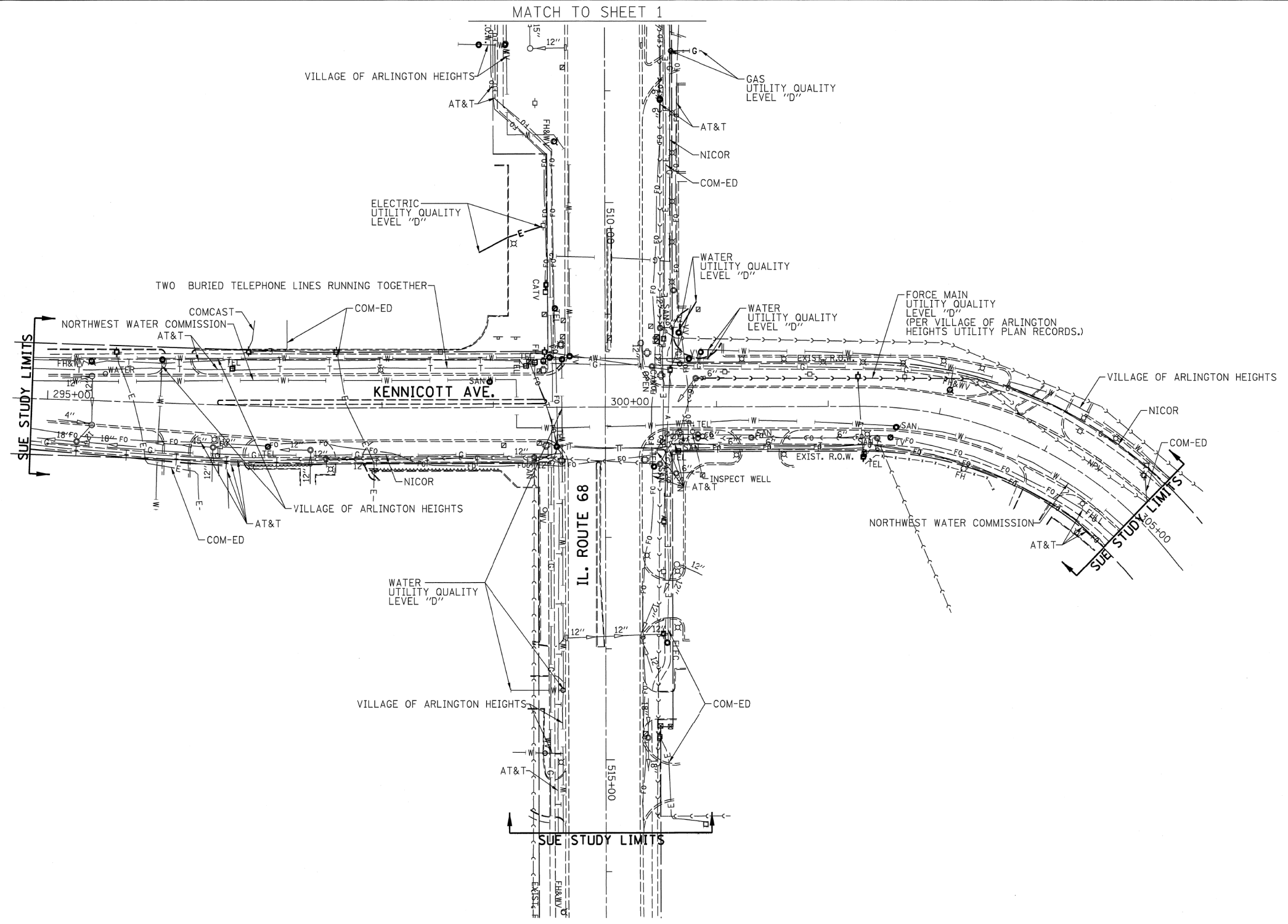
DESIGNED MS	REVISED
DRAWN SRK	REVISED
CHECKED MGR	REVISED
DATE 10/16/14	REVISED

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

**IL 68 (Dundee Road) at North Wilke Road & at Kennicott Ave.**  
**Arlington Heights, Illinois**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.
343	531-4HBK & 3041-15D-2-R	Cook	69 27

FED. ROAD DIST. NO.	ILLINOIS IDOT Project No.
	Contract No. 60V01

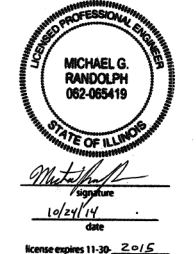


— A — A —	AERIAL
- - - - -	UNKNOWN
— O — O —	OIL
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
— FO — FO —	FIBER OPTIC
—>>>>>	FORCE MAIN
⊕	TBE TEST HOLE

UTILITY OWNERS	
AT&T	- FIBER OPTIC
AT&T	- TELEPHONE
COMCAST	- CABLE TV
COM-ED	- ELECTRIC
KDL WINDSTREAM	- FIBER OPTIC
KMC TELECOM	- FIBER OPTIC
MCI	- FIBER OPTIC
NICOR	- GAS
NORTHWEST WATER COMMISSION	- WATER
VILLAGE OF ARLINGTON HEIGHTS	- FORCE MAIN
VILLAGE OF ARLINGTON HEIGHTS	- WATER
VINAKOM	- FIBER OPTIC

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's SUE field investigation was performed 9/22/14 through 10/10/14. Changes to utilities after 10/10/14 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.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.



Utility Quality Level "A" : Visually Verified Test Hole  
 Utility Quality Level "B" : Designating/non Visually Verified Test Hole  
 Utility Quality Level "C" : Research with Survey  
 Utility Quality Level "D" : Records Research

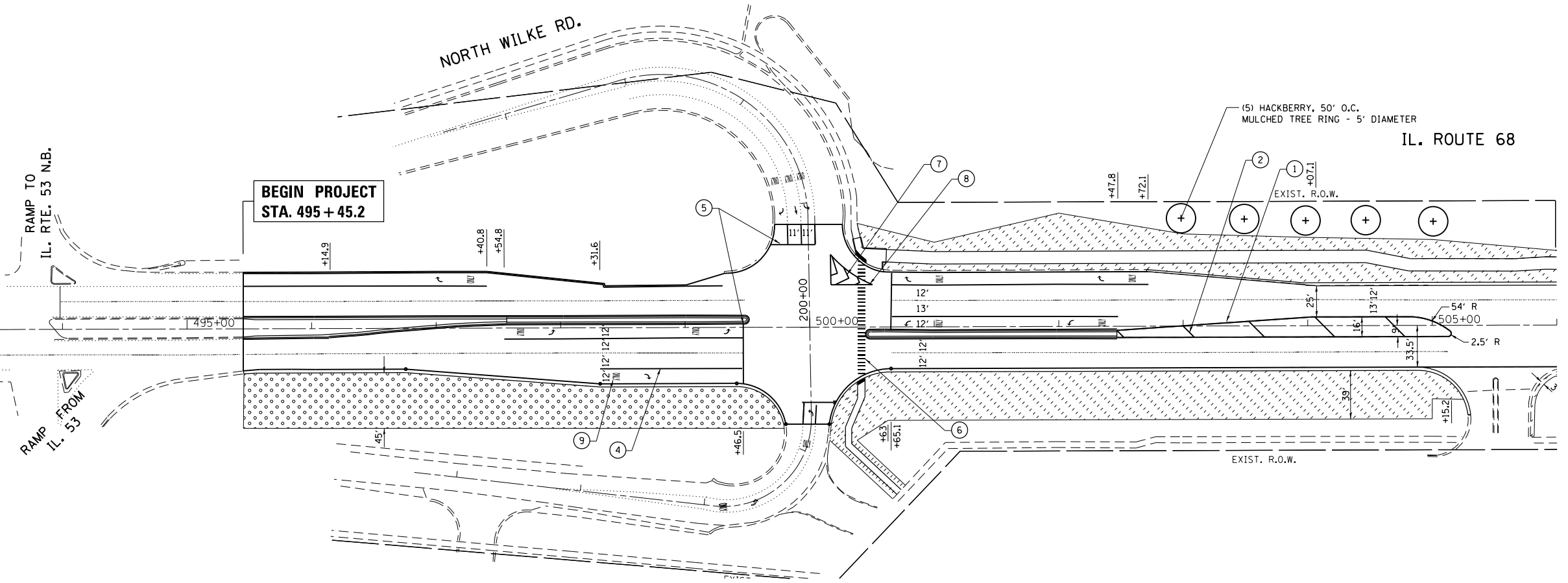
DESIGNED	MS	REVISED
DRAWN	SRK	REVISED
CHECKED	MGR	REVISED
DATE	10/16/14	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL 68 (Dundee Road) at North Wilke Road & at Kennicott Ave.  
Arlington Heights, Illinois

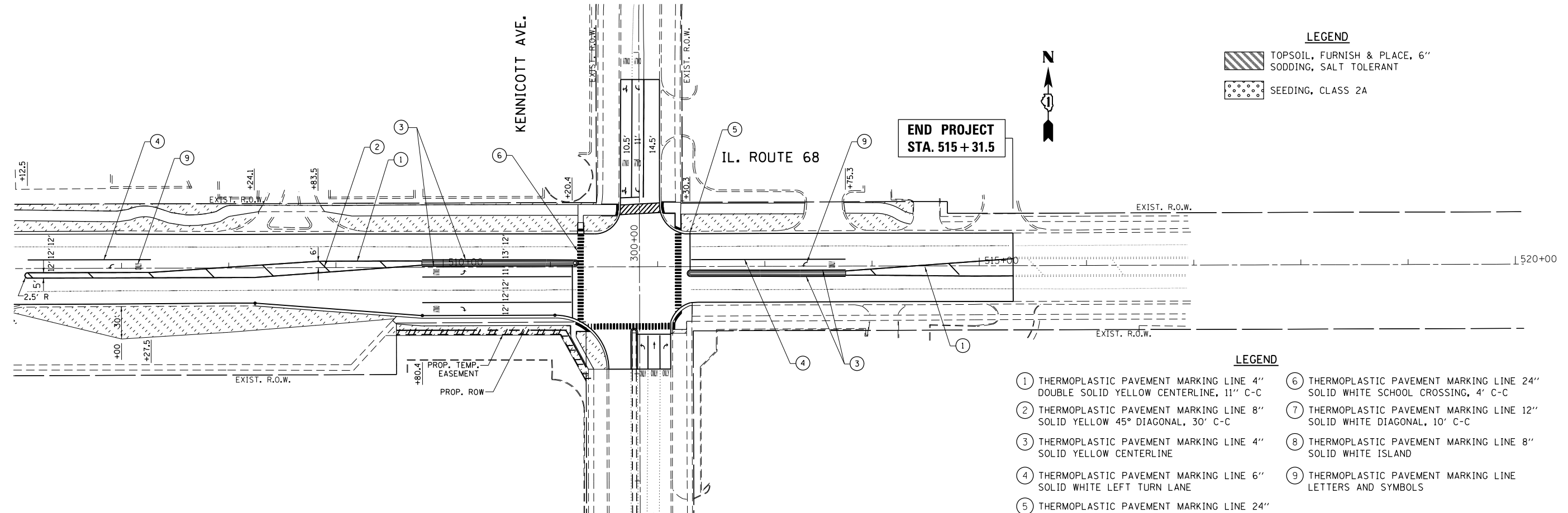
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	531-4HB & 3041-15D-2-R	Cook	69	28
Contract No. 60V01				
FED. ROAD DIST. NO. ILLINOIS IDOT Project No.				

TBE Job No. IL09510617, 632  
SUE Plan Page: 2 of 3



**LEGEND**

- TOPSOIL, FURNISH & PLACE, 6" SODDING, SALT TOLERANT
- SEEDING, CLASS 2A



**LEGEND**

- ① THERMOPLASTIC PAVEMENT MARKING LINE 4" DOUBLE SOLID YELLOW CENTERLINE, 11" C-C
- ② THERMOPLASTIC PAVEMENT MARKING LINE 8" SOLID YELLOW 45° DIAGONAL, 30' C-C
- ③ THERMOPLASTIC PAVEMENT MARKING LINE 4" SOLID YELLOW CENTERLINE
- ④ THERMOPLASTIC PAVEMENT MARKING LINE 6" SOLID WHITE LEFT TURN LANE
- ⑤ THERMOPLASTIC PAVEMENT MARKING LINE 24" SOLID WHITE STOPBAR
- ⑥ THERMOPLASTIC PAVEMENT MARKING LINE 24" SOLID WHITE SCHOOL CROSSING, 4' C-C
- ⑦ THERMOPLASTIC PAVEMENT MARKING LINE 12" SOLID WHITE DIAGONAL, 10' C-C
- ⑧ THERMOPLASTIC PAVEMENT MARKING LINE 8" SOLID WHITE ISLAND
- ⑨ THERMOPLASTIC PAVEMENT MARKING LINE LETTERS AND SYMBOLS

FILE NAME =	USER NAME = guillaumejp	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL. ROUTE 68 at WILKE AND KENNICOTT PROPOSED PAVEMENT MARKING &amp; LANDSCAPING PLAN</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
						343	(531-4HBK & 3041-15-D-2-RN)	COOK	69	29	
						CONTRACT NO. 60V01					
						ILLINOIS FED. AID PROJECT					
Default	PLOT DATE = 9/22/2015	DATE -	REVISED -	SCALE: 1"=50'	SHEET OF SHEETS	STA. 495+45.2 TO STA. 515+31.5					

# TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED												
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE															
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE															
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA															
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED															
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F															
UNINTERRUPTABLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F															
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F															
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F															
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE															
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED															
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED															
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED															
SIGNAL POST				REMOVE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED															
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED															
GUY WIRE				ABANDON ITEM				INTERSECTION & SAMPLING (SYSTEM) DETECTOR															
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR															
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				QUEUE DETECTOR															
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				PERFORMED QUEUE DETECTOR															
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PERFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR															
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				"RB" INDICATES REFLECTIVE BACKPLATE				PERFORMED SAMPLING (SYSTEM) DETECTOR															
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				<h2 style="margin: 0;">RAILROAD SYMBOLS</h2> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">EXISTING</th> <th style="width: 50%;">PROPOSED</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> </tbody> </table>				EXISTING	PROPOSED										
EXISTING	PROPOSED																						
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED																			
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID																			
ILLUMINATED SIGN "NO LEFT TURN"				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER																			
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO INTERCONNECT																			
DETECTOR LOOP, TYPE I				RADIO REPEATER																			
PERFORMED DETECTOR LOOP				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED																			
MICROWAVE VEHICLE SENSOR				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)																			
VIDEO DETECTION CAMERA																							
VIDEO DETECTION ZONE																							
PAN, TILT, ZOOM CAMERA																							
WIRELESS DETECTOR SENSOR																							
WIRELESS ACCESS POINT																							

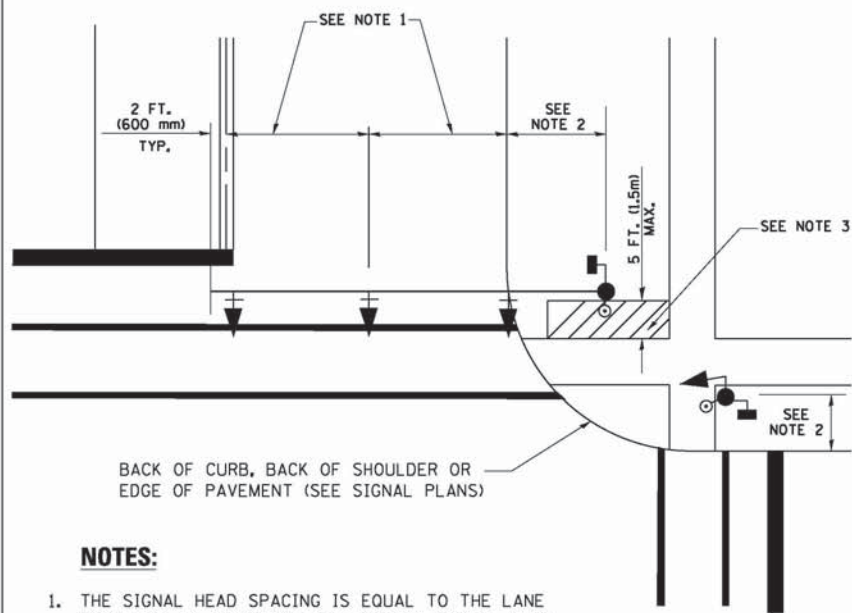
TS SHT NO. 1

FILE NAME =	USER NAME = footemj	DESIGNED - DAG/BCK	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw_work\pwwork\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -			343	(531-4HBK&3041-15D-2-R)N	COOK	69	30	
PLOT SCALE = 50.0000' / in.		CHECKED - DAD	REVISED -			TS-05		CONTRACT NO. 60V01			
PLOT DATE = 1/13/2014		DATE - 10-28-09	REVISED -			SCALE: NONE		SHEET NO. 1 OF 7 SHEETS STA. TO STA.			
						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					





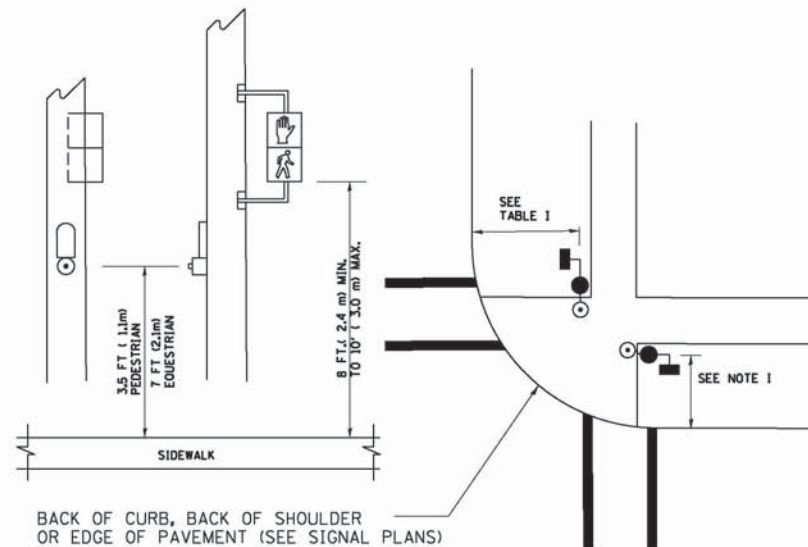
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST  
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR  
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN  
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



**NOTES:**

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

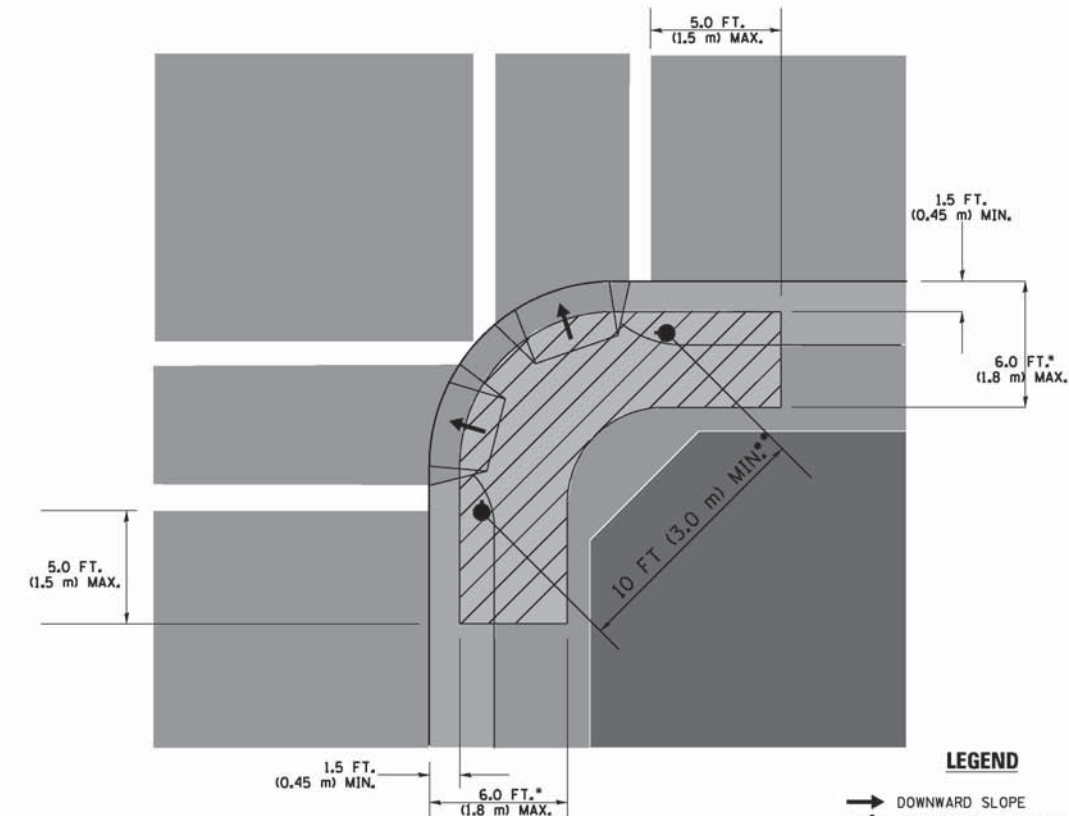
**PEDESTRIAN SIGNAL POST  
AND  
PEDESTRIAN PUSH BUTTON POST**



**NOTES:**

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

**RECOMMENDED PUSHBUTTON LOCATIONS**



**LEGEND**

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

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

**NOTES:**

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

**TRAFFIC SIGNAL EQUIPMENT OFFSET**

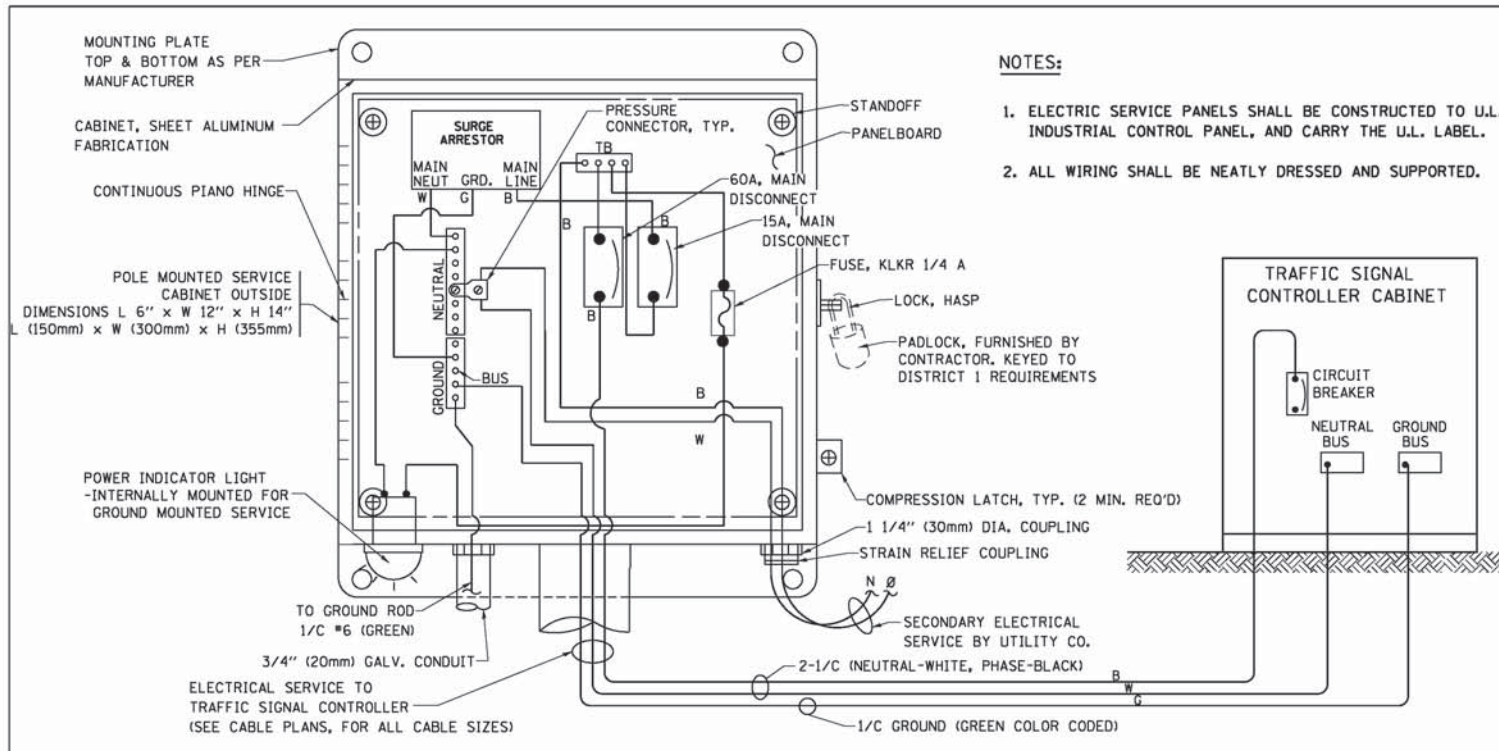
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

**NOTES:**

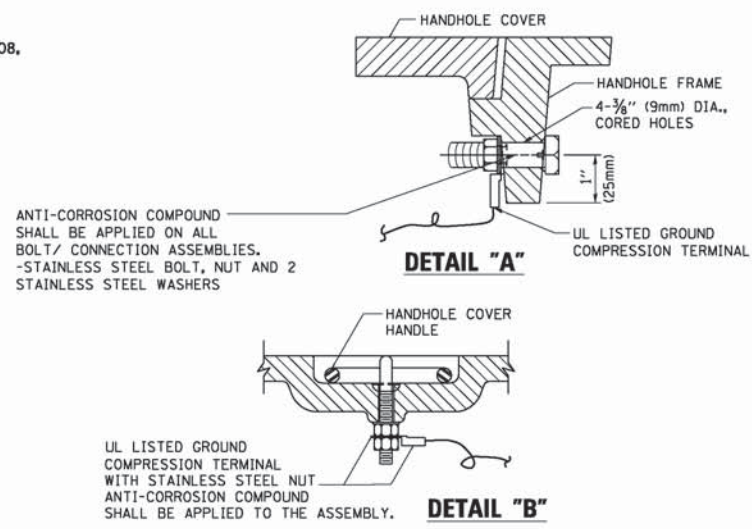
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM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

TS SHT NO. 3

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\pwwork\footemj\d0108315\ts05.dgn	DRAWN - BCK	REVISOR -	343			(531-4HBK&3041-15D-2-R)N	COOK	69	32	
PLOT SCALE = 50.0000' / in.	CHECKED - DAD	REVISOR -	<b>TS-05</b>			<b>CONTRACT NO. 60V01</b>				
PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISOR -	FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT							
				SCALE: NONE		SHEET NO. 3 OF 7 SHEETS		STA. TO STA.		

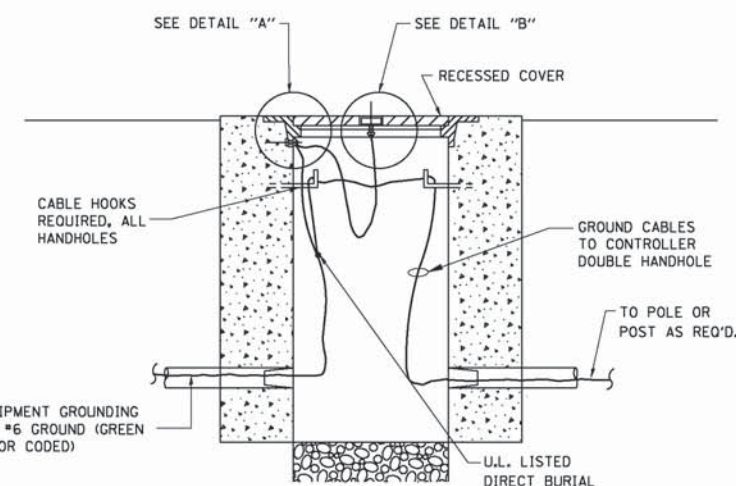


**ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)  
SERVICE INSTALLATION POLE MOUNT (SHOWN)  
(NOT TO SCALE)**

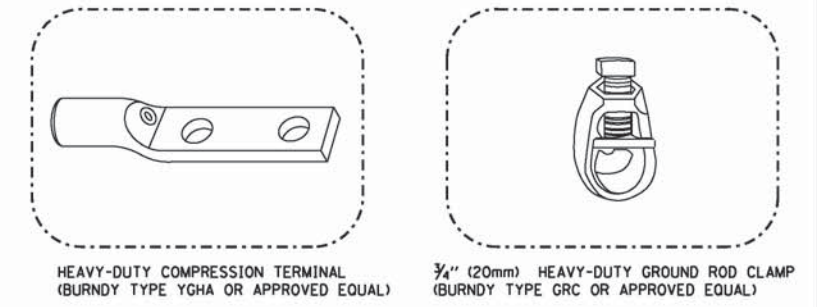


**NOTES:  
GROUNDING SYSTEM**

- 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.
- 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.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

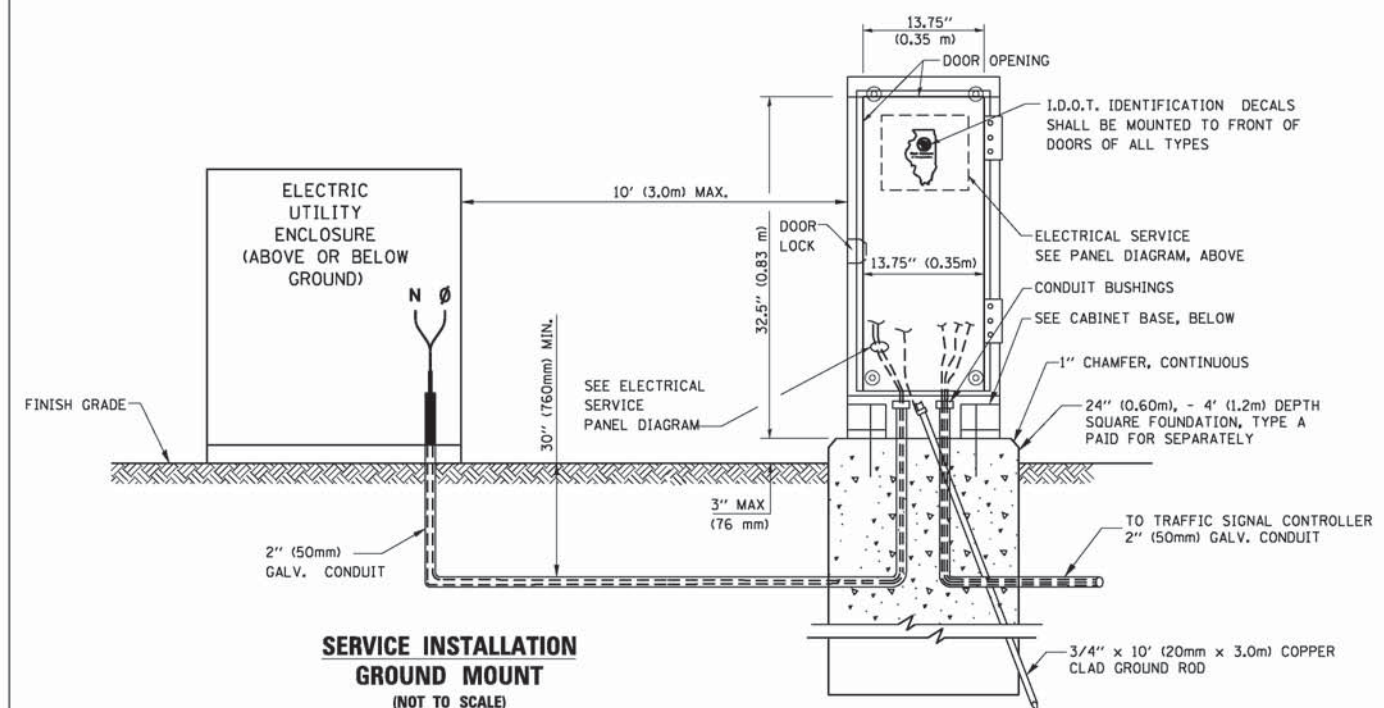


**HANDHOLE COVER & FRAME - GROUNDING DETAIL  
(NOT TO SCALE)**

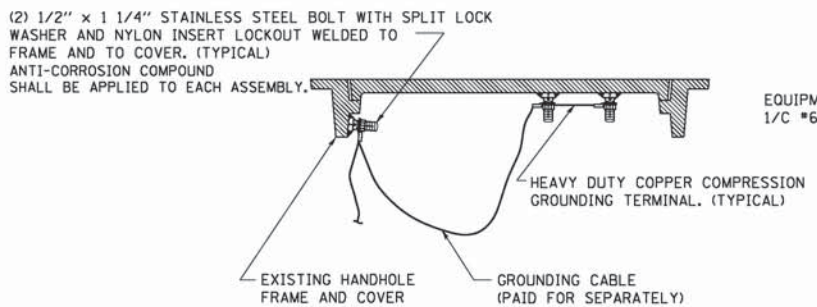


**NOTES:**

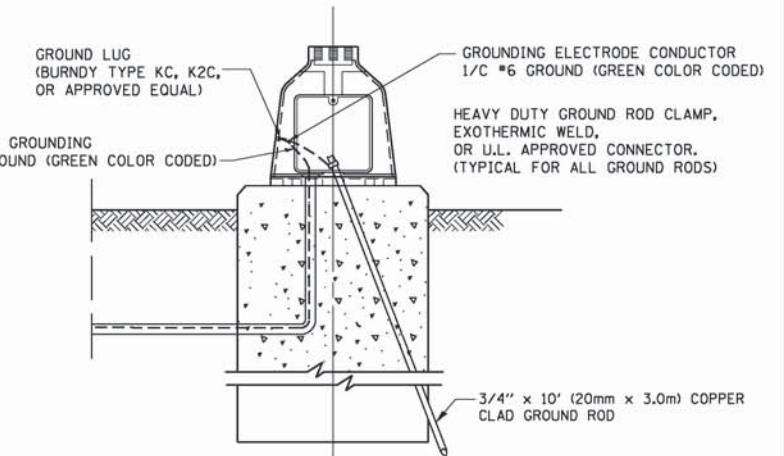
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



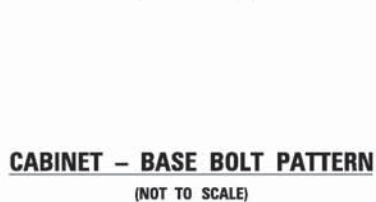
**SERVICE INSTALLATION GROUND MOUNT  
(NOT TO SCALE)**



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



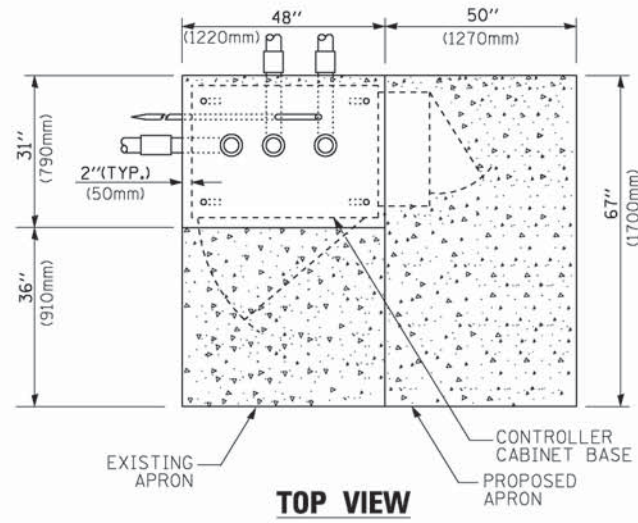
**MAST ARM POLE / POST-GROUNDING DETAIL  
(NOT TO SCALE)**



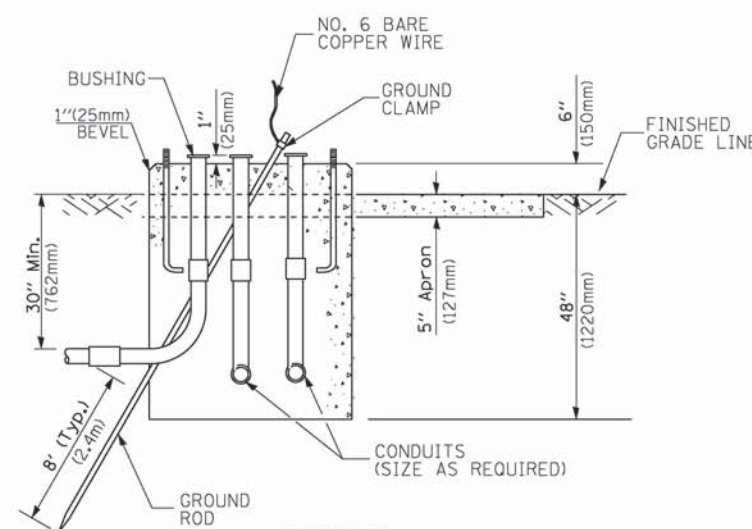
**CABINET - BASE BOLT PATTERN  
(NOT TO SCALE)**

TS SHT NO. 4

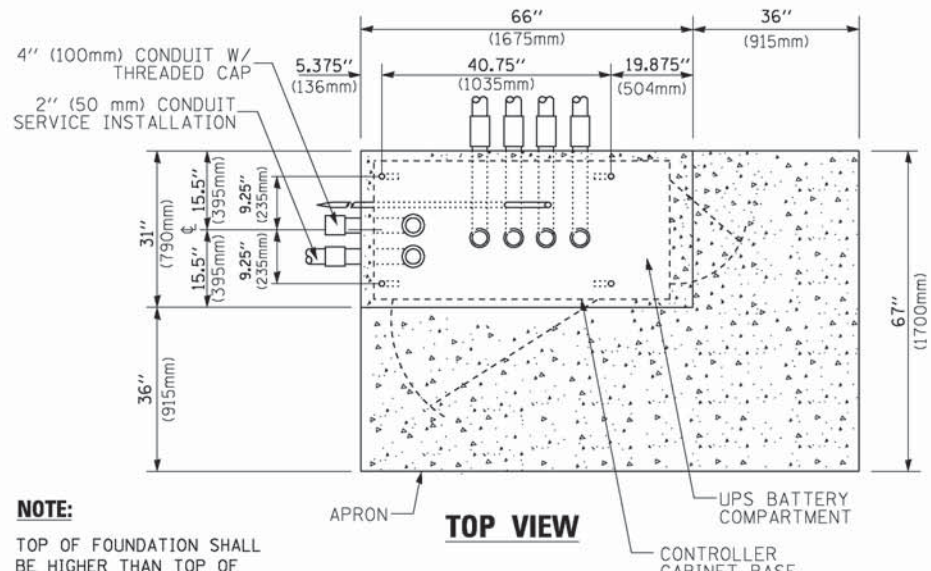
FILE NAME = ct:\pw_work\p\dot\Footemj\d0108315\ts05.pgn	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			F.A.P. RTE. 343	SECTION (531-4HBK&3041-15D-2-R)N	COUNTY COOK	TOTAL SHEETS 69	SHEET NO. 33
PLOT SCALE = 58.8888' / in.	CHECKED - DAD	REVISOR -	REVISOR -		SCALE: NONE	SHEET NO. 4 OF 7 SHEETS	STA.	TO STA.	<b>TS-05</b>		<b>CONTRACT NO. 60V01</b>	
PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISOR -	REVISOR -		FED. ROAD DIST. NO. 1 ILLINOIS   FED. AID PROJECT							



**TOP VIEW**

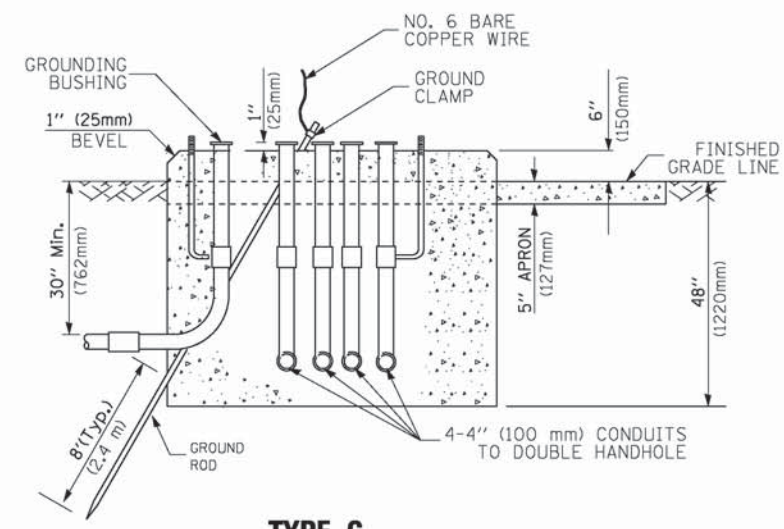


**TYPE D  
FOR GROUND MOUNTED  
CONTROLLER CABINET  
AND UPS BATTERY CABINET**

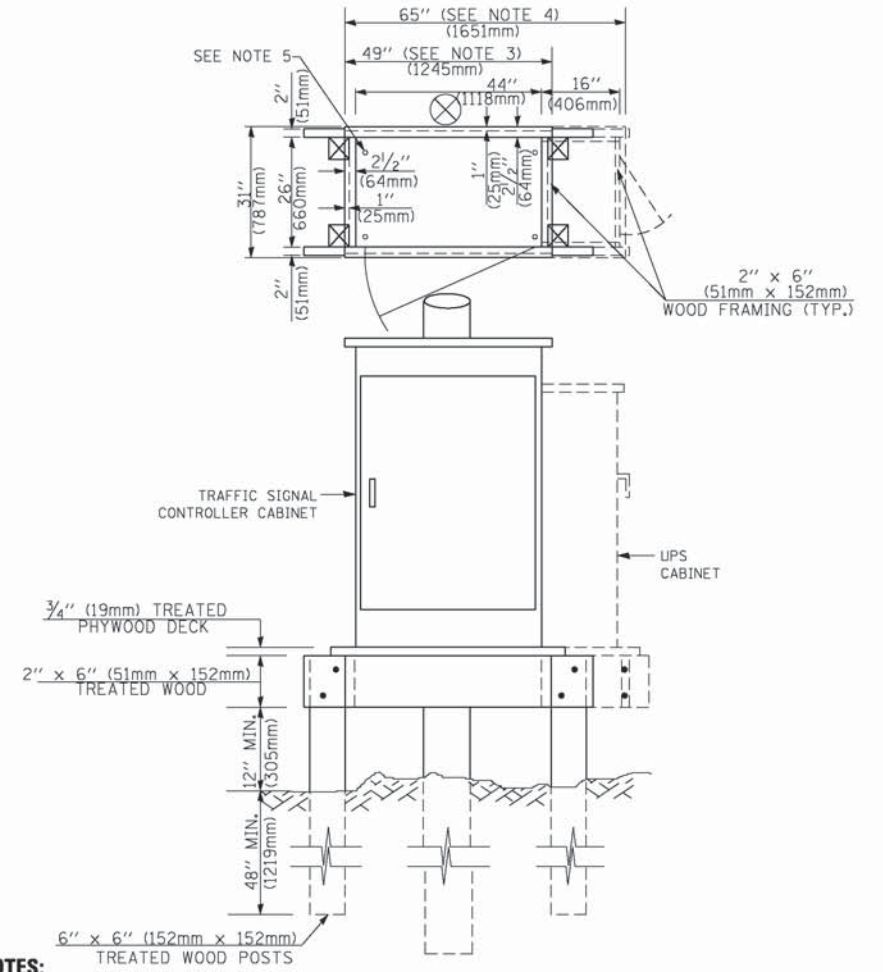


**TOP VIEW**

**NOTE:**  
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



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



**NOTES:**

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

**TEMPORARY SIGNAL CONTROLLER  
WOOD SUPPORT PLATFORM**

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

**CABLE SLACK**

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

**VERTICAL CABLE LENGTH**

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

**DEPTH OF FOUNDATION**

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

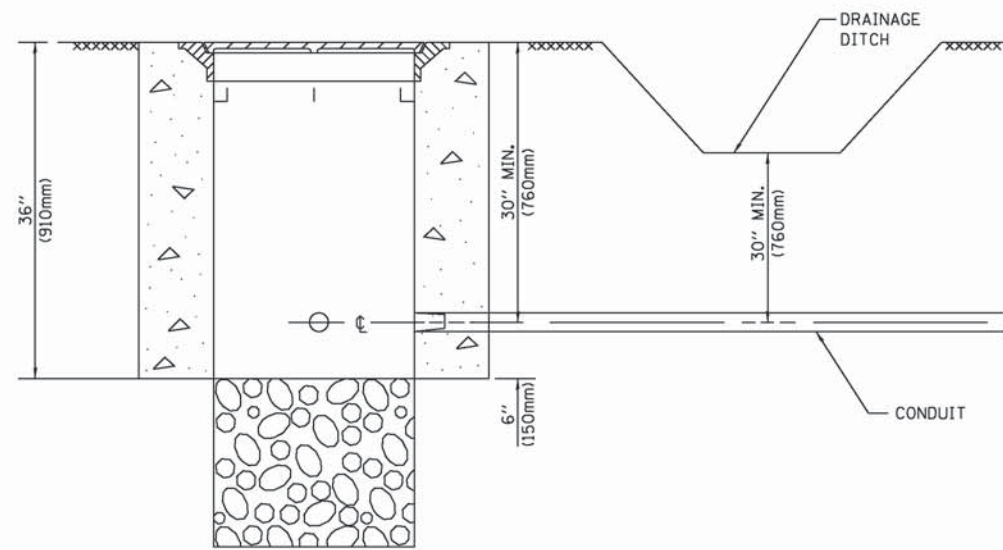
**NOTES:**

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

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

TS SHT NO. 5

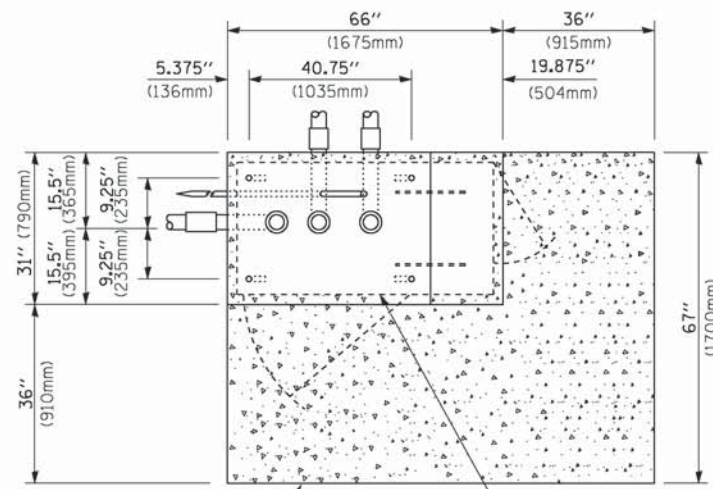
FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT ONE</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\p\wdot\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -		<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>		343	(531-4HBK&3041-15D-2-R)N	COOK	69	34
		CHECKED - DAD	REVISED -		SCALE: NONE	SHEET NO. 5 OF 7 SHEETS	STA.	TO STA.	<b>TS-05</b>		CONTRACT NO. 60V01
		DATE - 10-28-09	REVISED -						<b>TS-05</b>		CONTRACT NO. 60V01



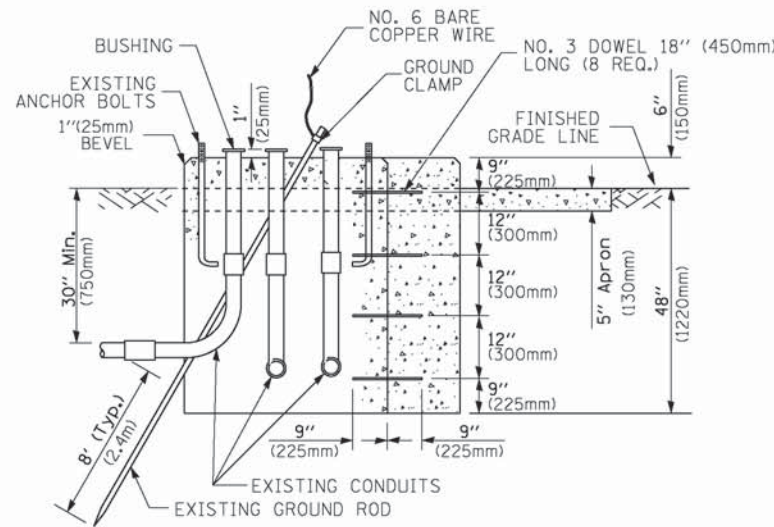
**NOTES:**

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

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



**TOP VIEW**  
(NOT TO SCALE)

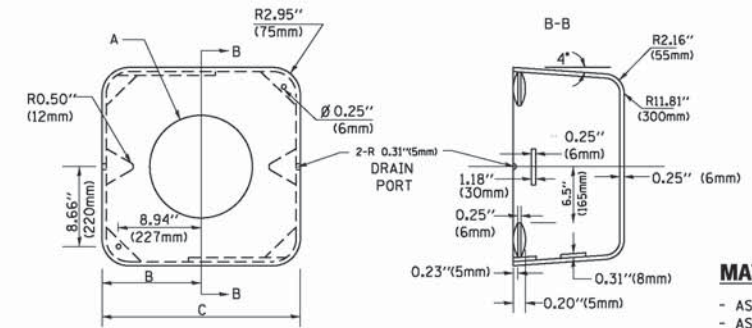


**MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION**  
(NOT TO SCALE)

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

**NOTES:**

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



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

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

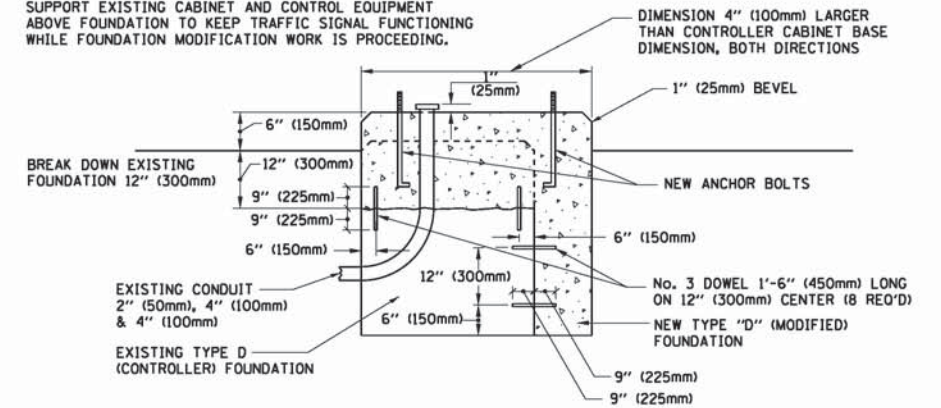
**SHROUD**

**NOTES:**

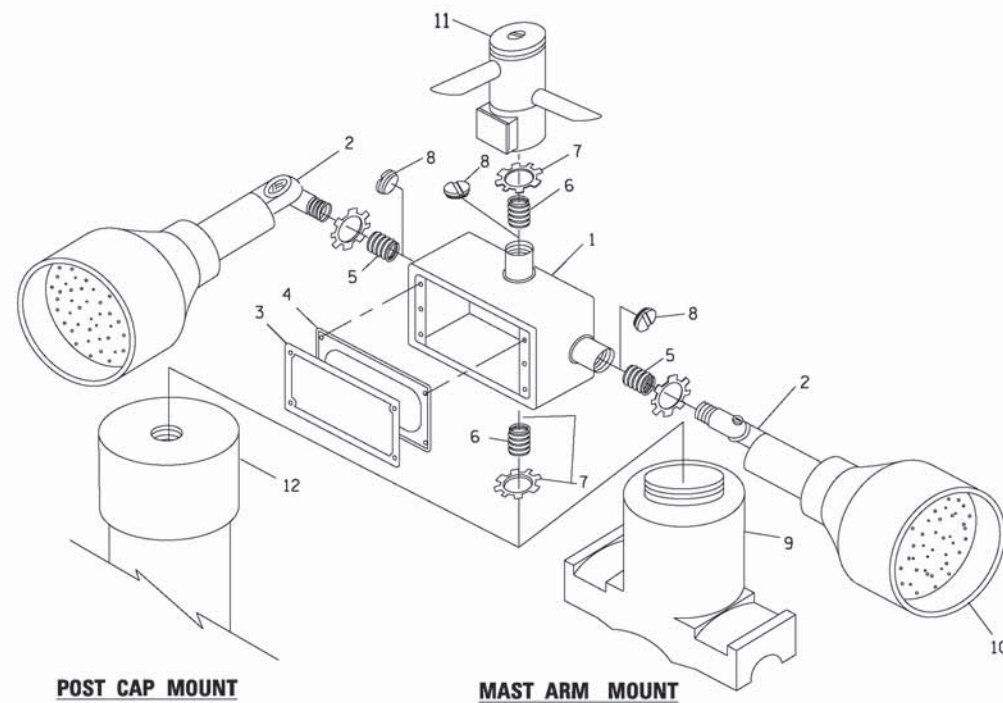
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

**NOTE:**

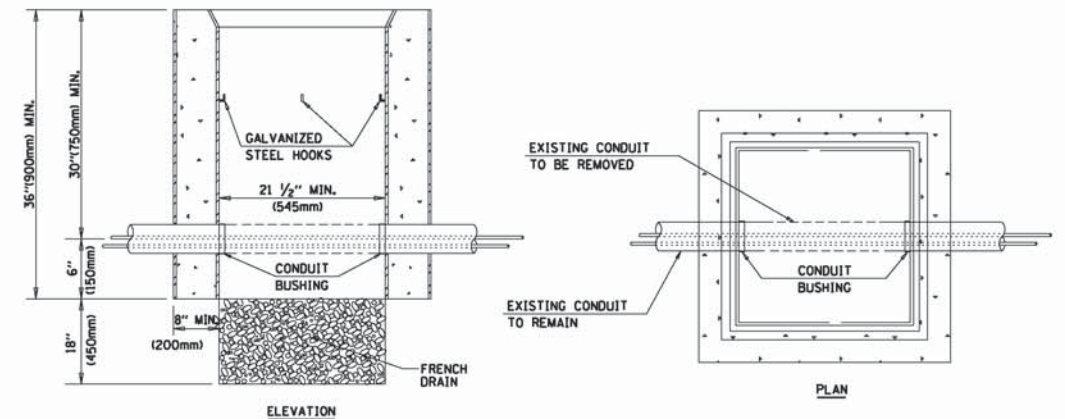
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



**MODIFY EXISTING TYPE "D" FOUNDATION**



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



**NOTES:**

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

**HANDHOLE TO INTERCEPT EXISTING CONDUIT**

TS SHT NO. 6

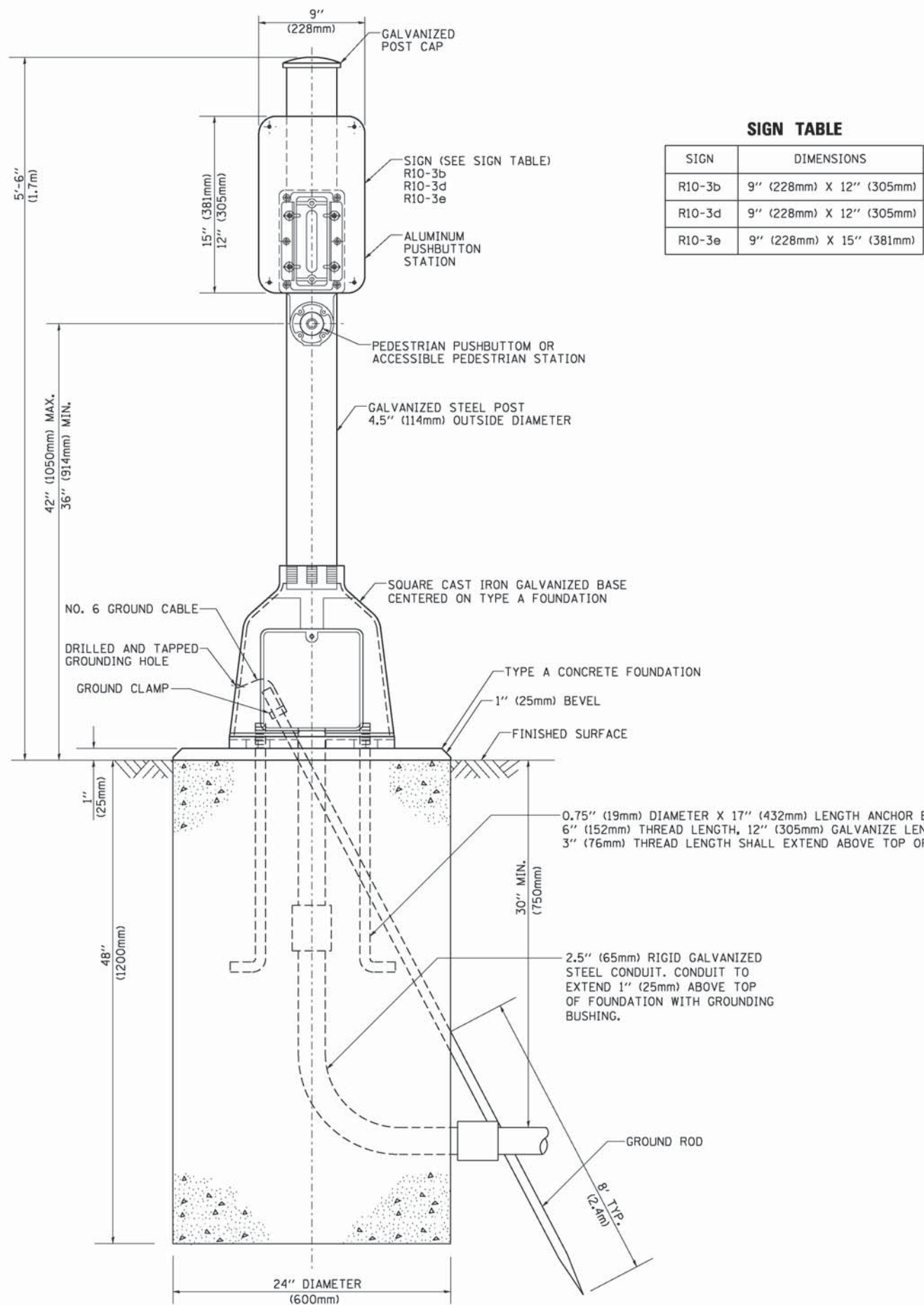
FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
ct:\pw_work\pwwork\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000 / in.	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

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

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

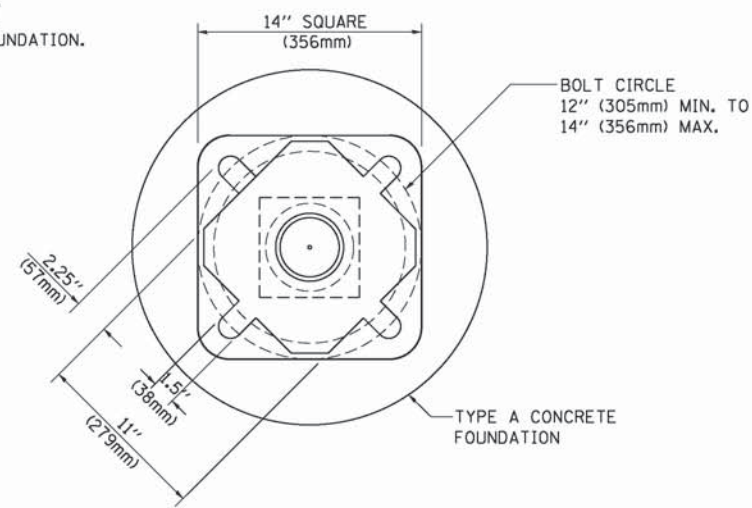
SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK&3041-15D-2-R)N	COOK	69	35
<b>TS-05</b>		<b>CONTRACT NO. 60V01</b>		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**SIGN TABLE**

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



**BOLT PATTERN**

**PEDESTRIAN PUSH BUTTON POST, TYPE A**

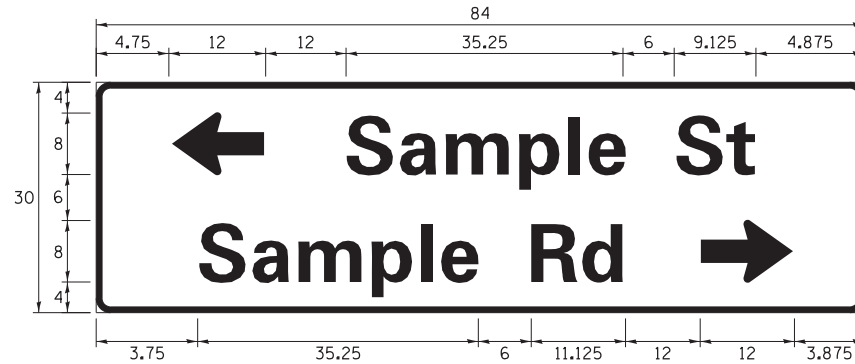
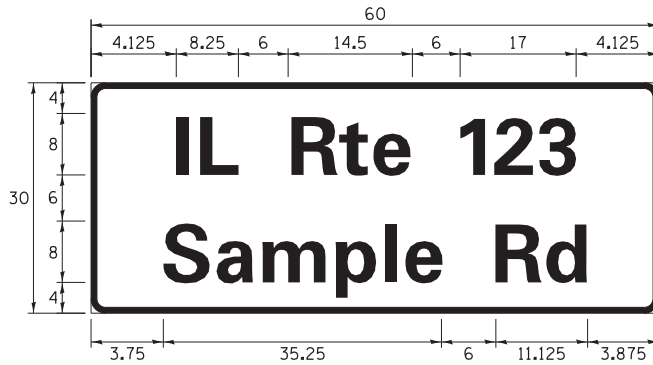
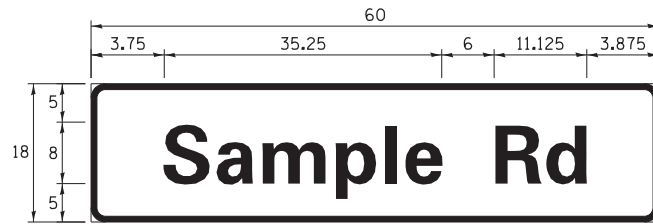
FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
ct:\pw_work\pwwork\footemj\d0108315\ts05.dgn		DRAWN - GND	REVISED -
PLOT SCALE = 50.0000 / in.		CHECKED - DAD	REVISED -
PLOT DATE = 1/13/2014		DATE - 10/1/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DISTRICT ONE</b>			
<b>STANDARD TRAFFIC SIGNAL DESIGN DETAILS</b>			
SCALE: NONE	SHEET NO. 7 OF 7 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK&3041-15D-2-R)N	COOK	69	36
<b>TS-05</b>		<b>CONTRACT NO. 60V01</b>		
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				

**SIGN PANEL – TYPE 1 OR TYPE 2**



DESIGN SERIES	AREA ( SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D OR C	-	1 OR 2	ZZ	-

**COMMON STREET NAME ABBREVIATIONS AND WIDTHS**

NAME	ABBREVIATION	WIDTH ( INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blyd	17.125	20.000
CIRCLE	Cir	11.125	13.000
COURT	Ct	8.250	9.625
DRIVE	Dr	8.625	10.125
HIGHWAY	Hwy	18.375	22.000
ILLINOIS	IL	7.000	8.250
LANE	Ln	9.125	10.750
PARKWAY	Pkwy	23.375	27.375
PLACE	Pl	7.125	7.750
ROAD	Rd	9.625	11.125
ROUTE	Rte	12.625	14.500
STREET	St	8.000	9.125
TERRACE	Ter	12.625	14.625
TRAIL	Tr	7.750	9.125
UNITED STATES	US	10.375	12.250

**GENERAL NOTES**

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS SHALL BE 3/4" WIDE. CORNER RADIUS SHALL BE 1-7/8". THE SPACING BETWEEN THE WORDS SHOULD BE 6", IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THERE IS SPACE AVAILABLE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

**LOCAL SUPPLIERS:**

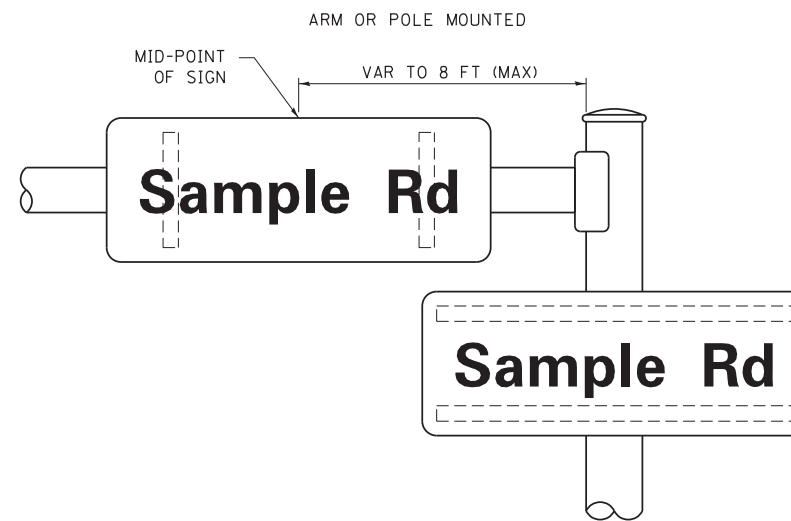
- J.O. HERBERT COMPANY, INC  
MIDLOTHIAN, VA
- WESTERN REMAC, INC.  
WOODRIDGE, IL

**PARTS LISTING:**

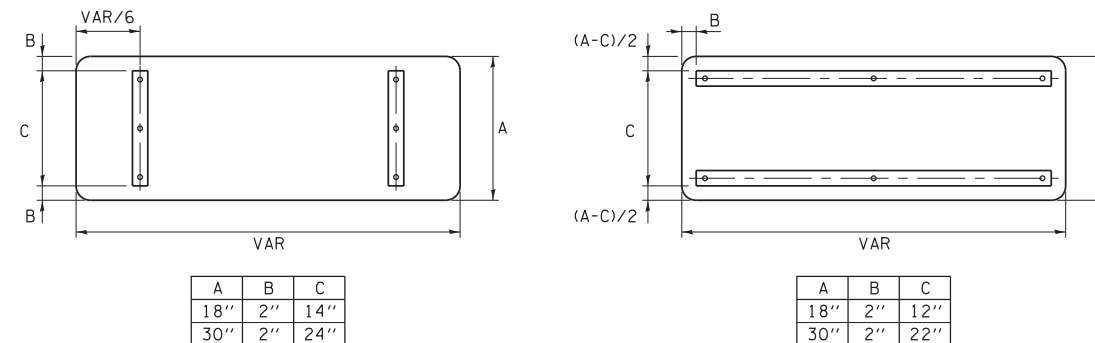
- SIGN CHANNEL PART \*HPN053 (MED. CHANNEL)  
SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3  
SELF TAPPING WITH NEOPRENE WASHER  
PART \*HPN034 (UNIVERSAL)  
BRACKETS CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

**MOUNTING LOCATION**



**SUPPORTING CHANNELS**



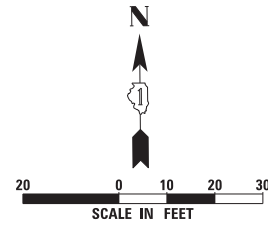
**STANDARD ALPHABETS SPACING CHART**

( 8" ) UPPER CASE AND ( 6" ) LOWER CASE

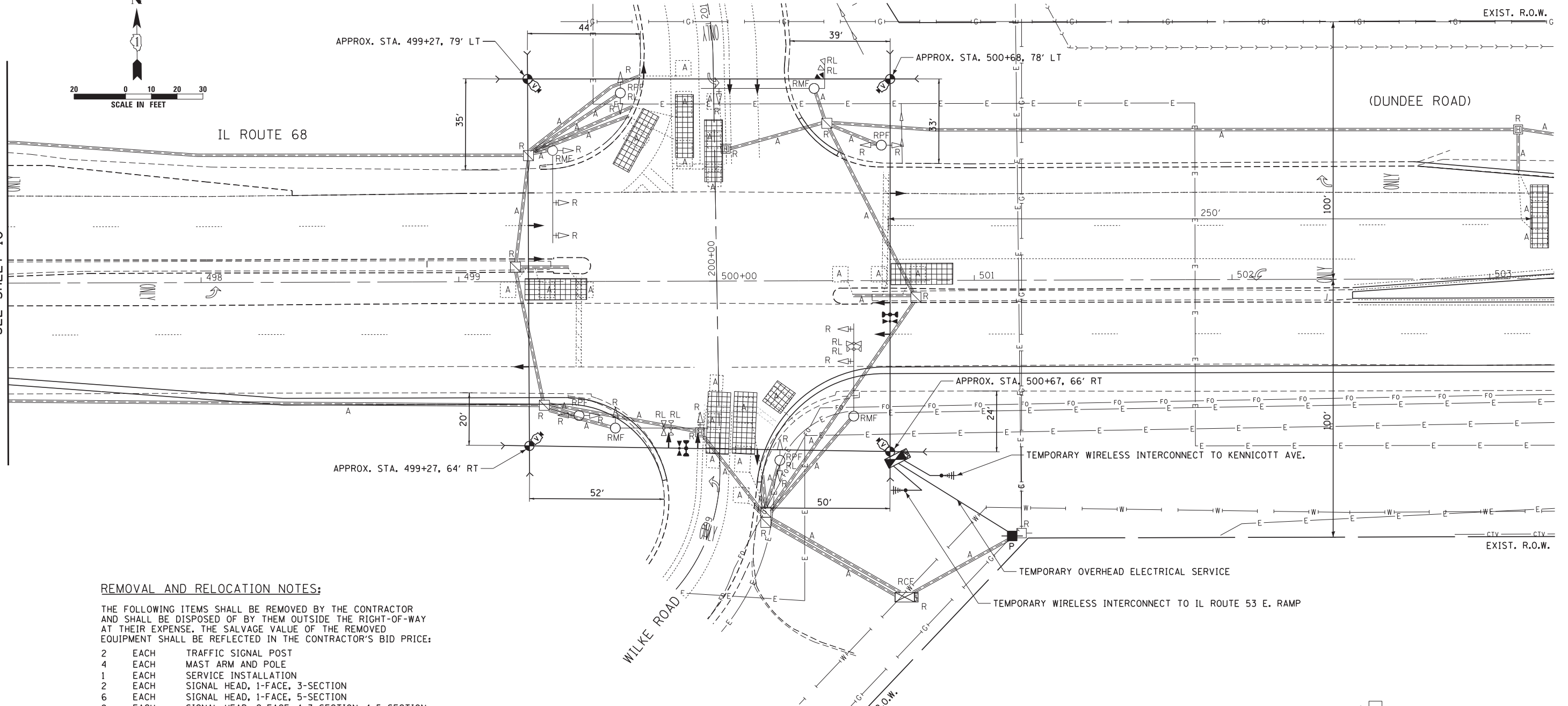
CHARACTER	FHWA SERIES "C"			FHWA SERIES "D"			
	LEFT SPACING ( INCH)	WIDTH ( INCH)	RIGHT SPACING ( INCH)	CHARACTER	LEFT SPACING ( INCH)	WIDTH ( INCH)	RIGHT SPACING ( INCH)
A	0.240	5.122	0.240	A	0.240	6.804	0.240
B	0.880	4.482	0.480	B	0.960	5.446	0.400
C	0.720	4.482	0.720	C	0.800	5.446	0.800
D	0.880	4.482	0.720	D	0.960	5.446	0.800
E	0.880	4.082	0.480	E	0.960	4.962	0.400
F	0.880	4.082	0.240	F	0.960	4.962	0.240
G	0.720	4.482	0.720	G	0.800	5.446	0.800
H	0.880	4.482	0.880	H	0.960	5.446	0.960
I	0.880	1.120	0.880	I	0.960	1.280	0.960
J	0.240	4.082	0.880	J	0.240	5.122	0.960
K	0.880	4.482	0.480	K	0.960	5.604	0.400
L	0.880	4.082	0.240	L	0.960	4.962	0.240
M	0.880	5.284	0.880	M	0.960	6.244	0.960
N	0.880	4.482	0.880	N	0.960	5.446	0.960
O	0.720	4.722	0.720	O	0.800	5.684	0.800
P	0.880	4.482	0.720	P	0.960	5.446	0.240
Q	0.720	4.722	0.720	Q	0.800	5.684	0.800
R	0.880	4.482	0.480	R	0.960	5.446	0.400
S	0.480	4.482	0.480	S	0.400	5.446	0.400
T	0.240	4.082	0.240	T	0.240	4.962	0.240
U	0.880	4.482	0.880	U	0.960	5.446	0.960
V	0.240	4.962	0.240	V	0.240	6.084	0.240
W	0.240	6.084	0.240	W	0.240	7.124	0.240
X	0.240	4.722	0.240	X	0.400	5.446	0.400
Y	0.240	5.122	0.240	Y	0.240	6.884	0.240
Z	0.480	4.482	0.480	Z	0.400	5.446	0.400
a	0.320	3.842	0.640	a	0.400	4.562	0.720
b	0.720	4.082	0.480	b	0.800	4.802	0.480
c	0.480	4.002	0.240	c	0.480	4.722	0.240
d	0.480	4.082	0.720	d	0.480	4.802	0.800
e	0.480	4.082	0.320	e	0.480	4.722	0.320
f	0.320	2.480	0.160	f	0.320	2.882	0.160
g	0.480	4.082	0.720	g	0.480	4.802	0.800
h	0.720	4.082	0.640	h	0.800	4.722	0.720
i	0.720	1.120	0.720	i	0.800	1.280	0.800
j	0.000	2.320	0.720	j	0.000	2.642	0.800
k	0.720	4.322	0.160	k	0.800	5.122	0.160
l	0.720	1.120	0.720	l	0.800	1.280	0.800
m	0.720	6.724	0.640	m	0.800	7.926	0.720
n	0.720	4.082	0.640	n	0.800	4.722	0.720
o	0.480	4.082	0.480	o	0.480	4.882	0.480
p	0.720	4.082	0.480	p	0.800	4.802	0.480
q	0.480	4.082	0.720	q	0.480	4.802	0.800
r	0.720	2.642	0.160	r	0.800	3.042	0.160
s	0.320	3.362	0.240	s	0.320	3.762	0.240
t	0.080	2.882	0.080	t	0.080	3.202	0.080
u	0.640	4.082	0.720	u	0.720	4.722	0.800
v	0.160	4.722	0.160	v	0.160	5.684	0.160
w	0.160	7.524	0.160	w	0.160	9.046	0.160
x	0.000	5.202	0.000	x	0.000	6.244	0.000
y	0.160	4.962	0.160	y	0.160	6.004	0.160
z	0.240	3.362	0.240	z	0.240	4.002	0.240
1	0.720	1.680	0.880	1	0.800	2.000	0.960
2	0.480	4.482	0.480	2	0.800	5.446	0.800
3	0.480	4.482	0.480	3	1.440	5.446	0.800
4	0.240	4.962	0.720	4	0.160	6.004	0.960
5	0.480	4.482	0.480	5	0.800	5.446	0.800
6	0.720	4.482	0.720	6	0.800	5.446	0.800
7	0.240	4.482	0.720	7	0.560	5.446	0.560
8	0.480	4.482	0.480	8	0.800	5.446	0.800
9	0.480	4.482	0.480	9	0.800	5.446	0.800
0	0.720	4.722	0.720	0	0.800	5.684	0.800
-	0.240	2.802	0.240	-	0.240	2.802	0.240

TS SHT NO. 8

FILE NAME =	USER NAME = pocitech1	DESIGNED - LP/IP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
S:\WP\Design\Manuals and Reference Materials\CADD\Details\ts02.dgn	DRAWN - LP	REVISIED -	343			(531-4HBK&3041-15D-2-R)N		69	37		
Default	PLOT SCALE = 50.0000 ' / in.	CHECKED - IP	REVISIED -			TS-02	CONTRACT NO. 60V01				
	PLOT DATE = 9/22/2014	DATE - 10/01/2014	REVISIED -			ILLINOIS FED. AID PROJECT					
SCALE:						SHEET 1 OF 1 SHEETS	STA. TO STA.				



MATCH LINE 497+25  
SEE SHEET 10



**REMOVAL AND RELOCATION NOTES:**

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 CONTRACTOR'S BID PRICE:

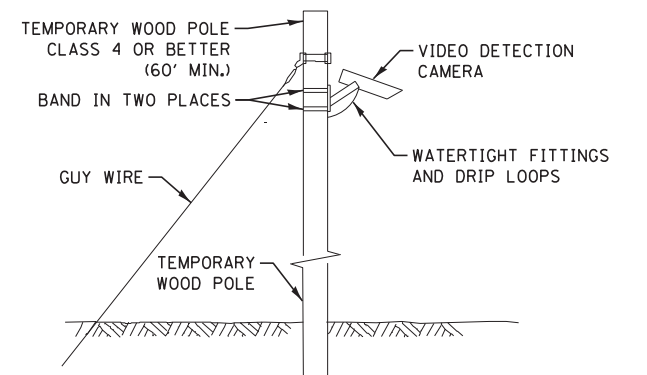
- 2 EACH TRAFFIC SIGNAL POST
- 4 EACH MAST ARM AND POLE
- 1 EACH SERVICE INSTALLATION
- 2 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 6 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION
- 2 EACH SIGNAL HEAD, 2-FACE, 2-5 SECTION

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE RETURNED TO IDOT:

- 1 EACH CONTROLLER AND CABINET COMPLETE AND UPS

THE FOLLOWING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL INSTALLATION. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONNECTIONS TO ENSURE PROPER OPERATION OF THE RELOCATED EQUIPMENT:

- 2 EACH CONFIRMATION BEACON
- 3 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 2 EACH 16' TRAFFIC SIGNAL POST



**TEMPORARY VIDEO DETECTION MOUNTING DETAIL**

(NOT TO SCALE)

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TS SHT NO. 9

FILE NAME =	USER NAME = .USER.	DESIGNED - V.O.	REVISED - -
J:\13155\60V01\DCN\CADD Sheets\0160V01-sht-01 Temp Sig & Removal Plan - Wilke 1.dgn		DRAWN - E.C.	REVISED - -
		CHECKED - I.Y.	REVISED - -
		DATE - 6/23/2015	REVISED - -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

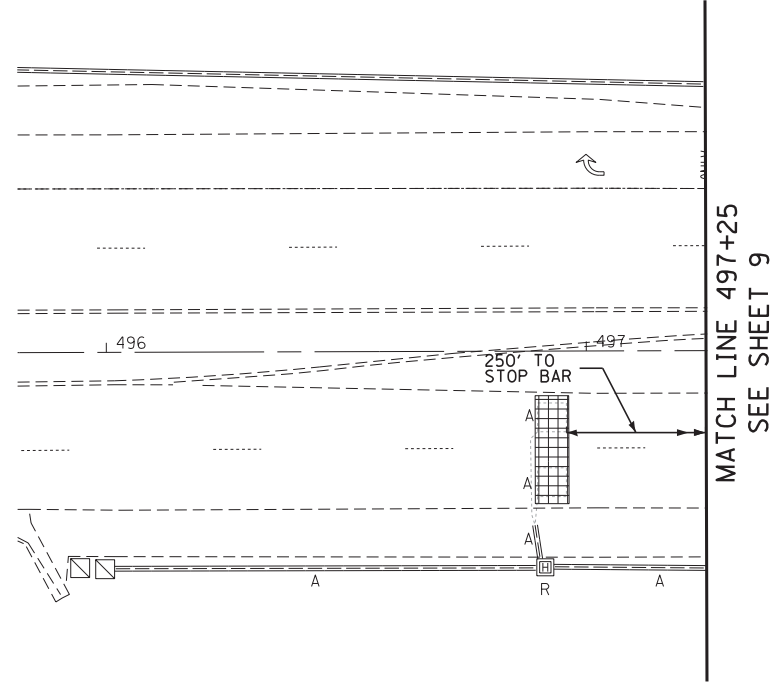
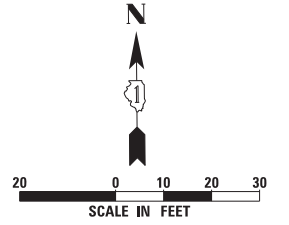
**TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN  
IL ROUTE 68 (DUNDEE ROAD) AT WILKE ROAD**

SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK&3041-15D-2-RN)	COOK	69	38
CONTRACT NO. 60V01				
ILLINOIS FED. AID PROJECT				

TS 3205





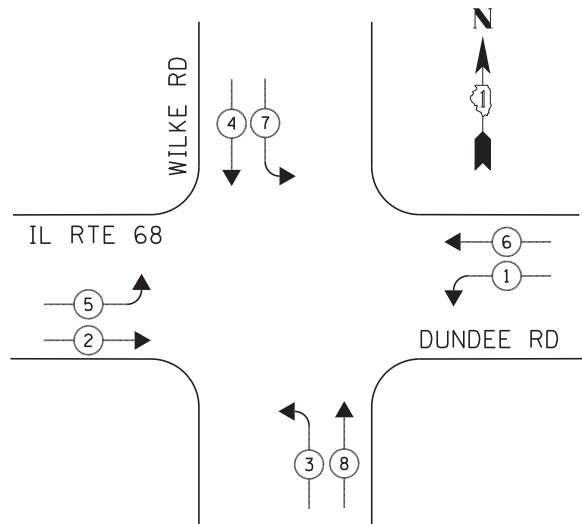
TS SHT NO. 10

THE TRAFFIC SIGNAL CONTROLLER  
EQUIPMENT FOR THIS PROJECT  
SHALL BE "ECONOLITE" TO MATCH  
THE EXISTING ADJACENT SYSTEM.

TS 3205

FILE NAME =	USER NAME = .USER.	DESIGNED - V.O.	REVISED - -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN IL ROUTE 68 (DUNDEE ROAD) AT WILKE ROAD</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
J:\13155\60V01\DCN\CADD Sheets\0160V01-sht-02 Temp Sig & Removal Plan - Wilke 2.dgn	DRAWN - E.C.	REVISED - -	343			(531-4HBK&3041-15D-2-R/W)	COOK	69	39	
PLOT SCALE = 20.0000' / in.	CHECKED - I.Y.	REVISED - -	<b>CONTRACT NO. 60V01</b>							
PLOT DATE = 7/10/2015	DATE - 6/23/2015	REVISED - -	ILLINOIS FED. AID PROJECT							
				SCALE: 1"=20'	SHEET NO. 2 OF 2 SHEETS	STA. N/A	TO STA. N/A			

**TEMPORARY CONTROLLER SEQUENCE**

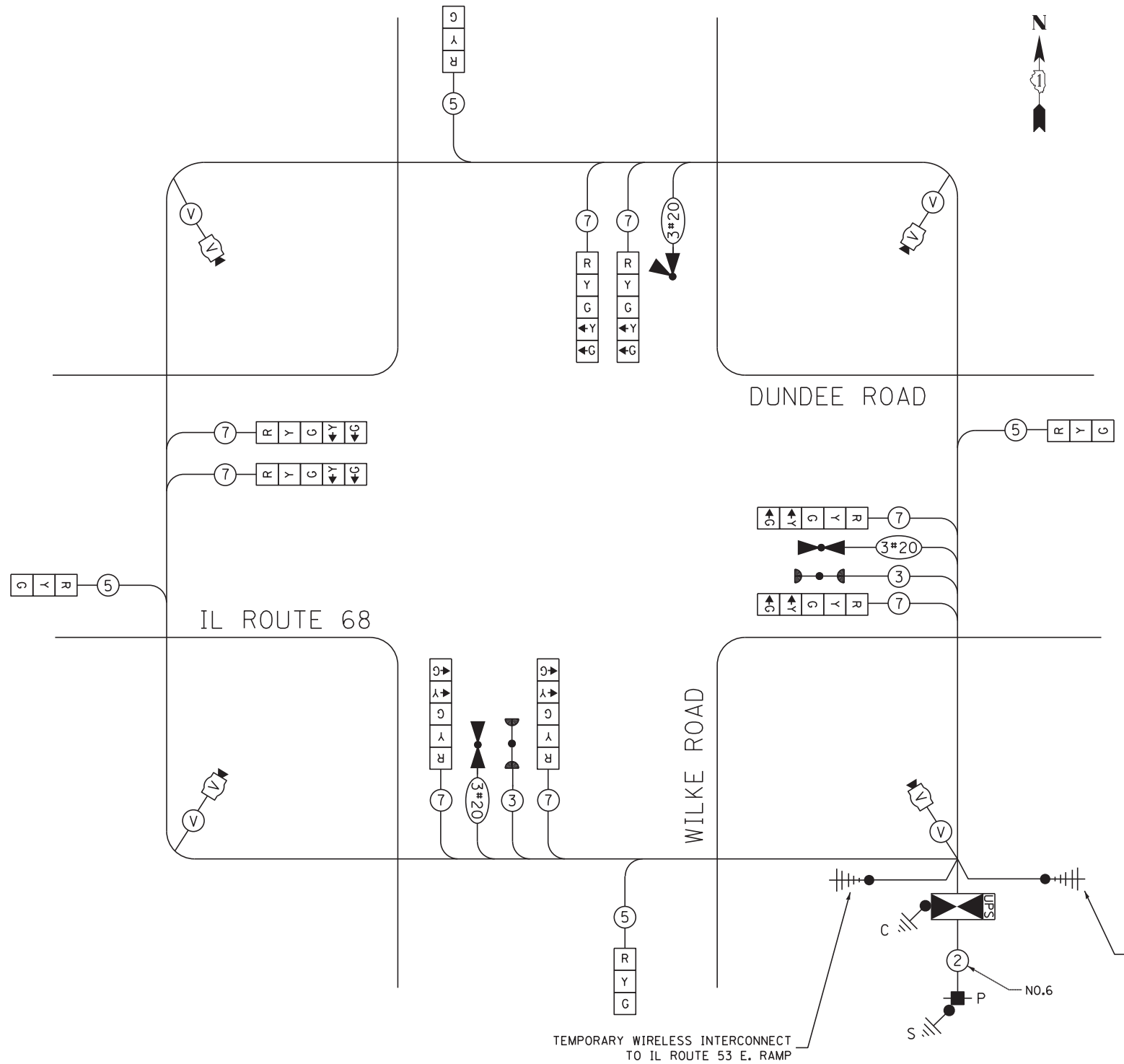
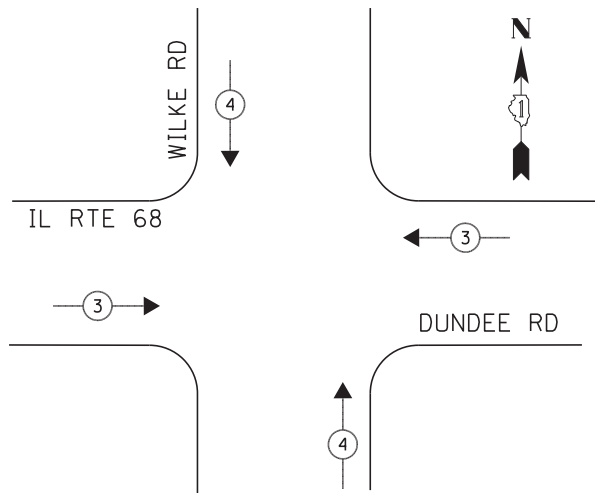


**LEGEND**

- ⊙ \* DUAL ENTRY PHASE
- ⊙ \* SINGLE ENTRY PHASE
- ◊ O.L. OVERLAP
- ⊙ \* PEDESTRIAN PHASE
- \* NUMBER REFERS TO ASSOCIATED PHASE

**TEMPORARY PHASE DESIGNATION DIAGRAM**

**TEMPORARY EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



**TEMPORARY CABLE PLAN**

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE		%OPERATION	
		INCAND.	LED		
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	16		12	0.10	19.20
PED. SIGNAL	-		25	1.00	-
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	-		25	0.05	-
VIDEO SYSTEM	1	150	-	1.00	150.00
FLASHER				-	
ENERGY COSTS TO:				TOTAL =	491.20
VILLAGE OF ARLINGTON HEIGHTS 33 S. ARLINGTON HEIGHTS ROAD ARLINGTON HEIGHTS, ILLINOIS 60005					
ENERGY SUPPLY CONTACT: <u>DONNA GILE</u>					
PHONE: <u>(630) 691-4529</u>					
COMPANY: <u>COMMONWEALTH EDISON</u>					

TS SHT NO. 11

FILE NAME =	USER NAME = .USER.	DESIGNED - V.O.	REVISED -
J:\13155\60V01\DCN\CADD Sheets\0160V01-sht-03-Temp Cable Plan - Wilke.dgn		DRAWN - E.C.	REVISED -
PLOT SCALE = 20.0000' / in.		CHECKED - I.Y.	REVISED -
PLOT DATE = 7/10/2015		DATE - 6/23/2015	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

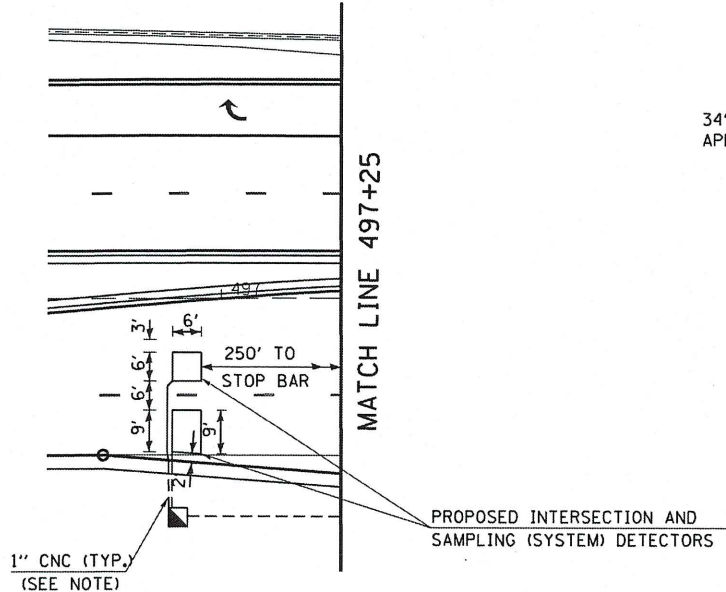
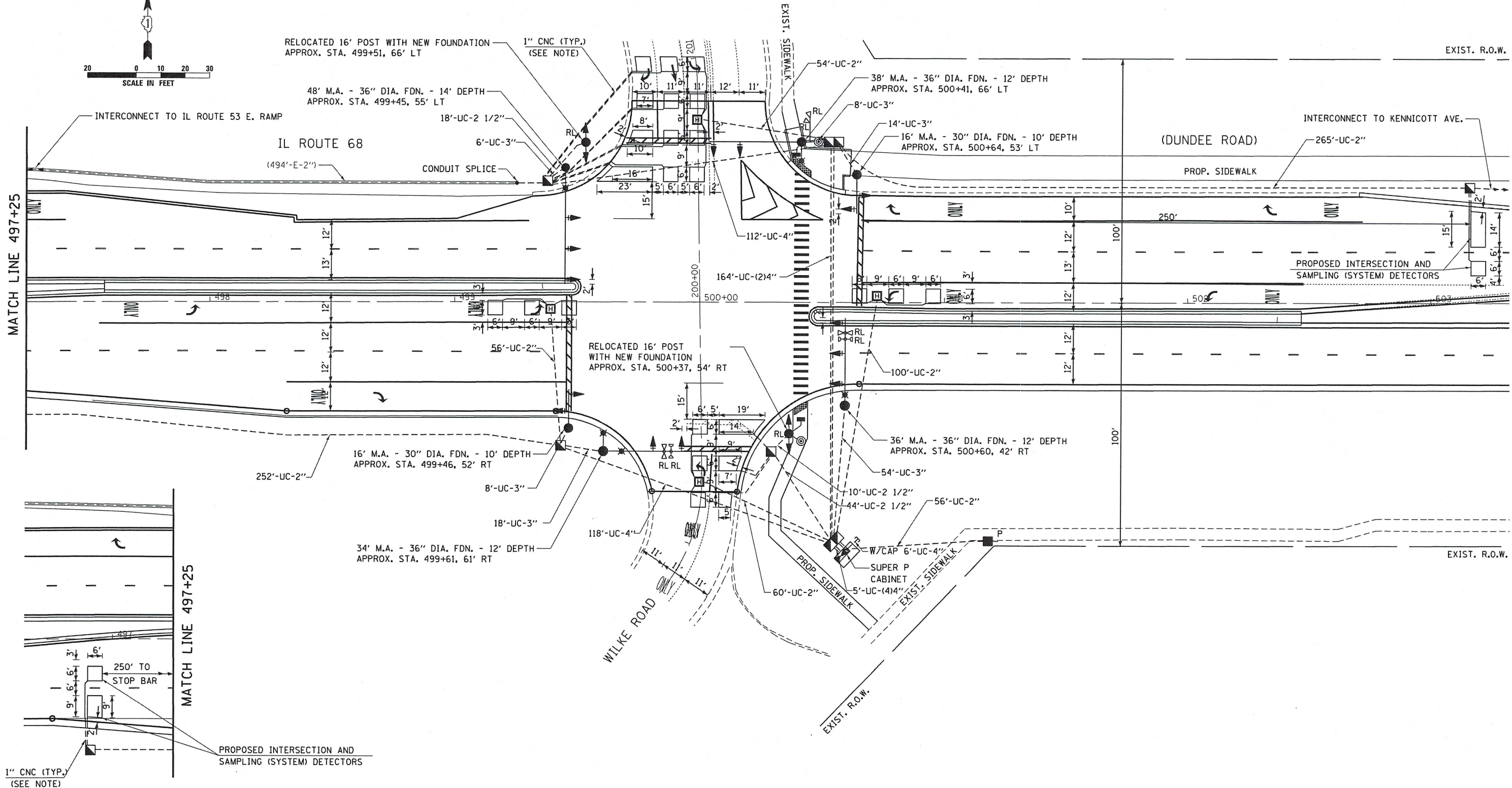
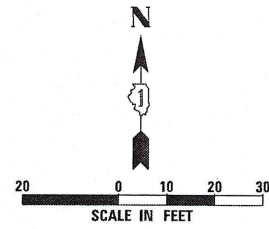
**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND  
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL ROUTE 68 (DUNDEE ROAD) AND WILKE ROAD PRE-STAGE**

SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK&3041-15D-2-R/W)	COOK	69	40
CONTRACT NO. 60V01				
ILLINOIS FED. AID PROJECT				

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TS 3205



NOTE:  
EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

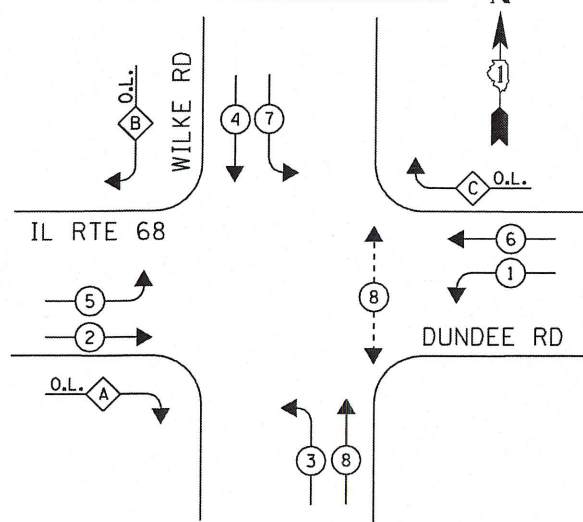
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TS SHT NO. 12

TS 3205

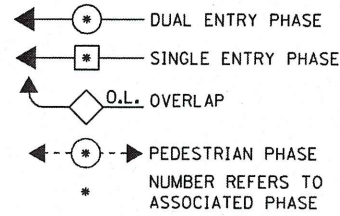
FILE NAME = J:\13155\60V01\01\01\CADD Sheets\0160V01-01-04-Modernization Plan - Wilke.dgn	USER NAME = .USER.	DESIGNED - V.O.	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC SIGNAL MODERNIZATION PLAN IL ROUTE 68 (DUNDEE ROAD) AT WILKE ROAD</b>	F.A.P. RTE. 343	SECTION 1531-4HBK&3041-15D-2-RIN	COUNTY COOK	TOTAL SHEETS 69	SHEET NO. 41		
PLOT SCALE = 20,0000' / 1in.	CHECKED - I.Y.	REVISIED -	REVISIED -			SCALE: 1"=20'	SHEET NO. 1 OF 1 SHEETS	STA. N/A	TO STA. N/A	<b>CONTRACT NO. 60V01</b>		
PLOT DATE = 9/23/2015	DATE = 6/23/2015	REVISIED -	REVISIED -			ILLINOIS FED. AID PROJECT						

**CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM**

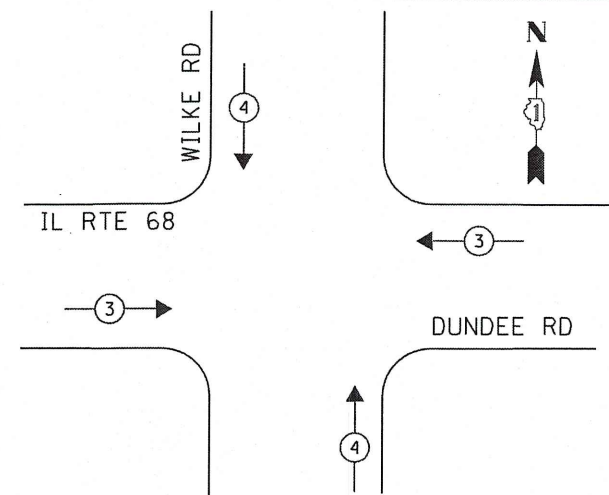
**LEGEND**



**PHASE DESIGNATION DIAGRAM**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A =	2	+ 3
B =	4	+ 5
C =	6	+ 7

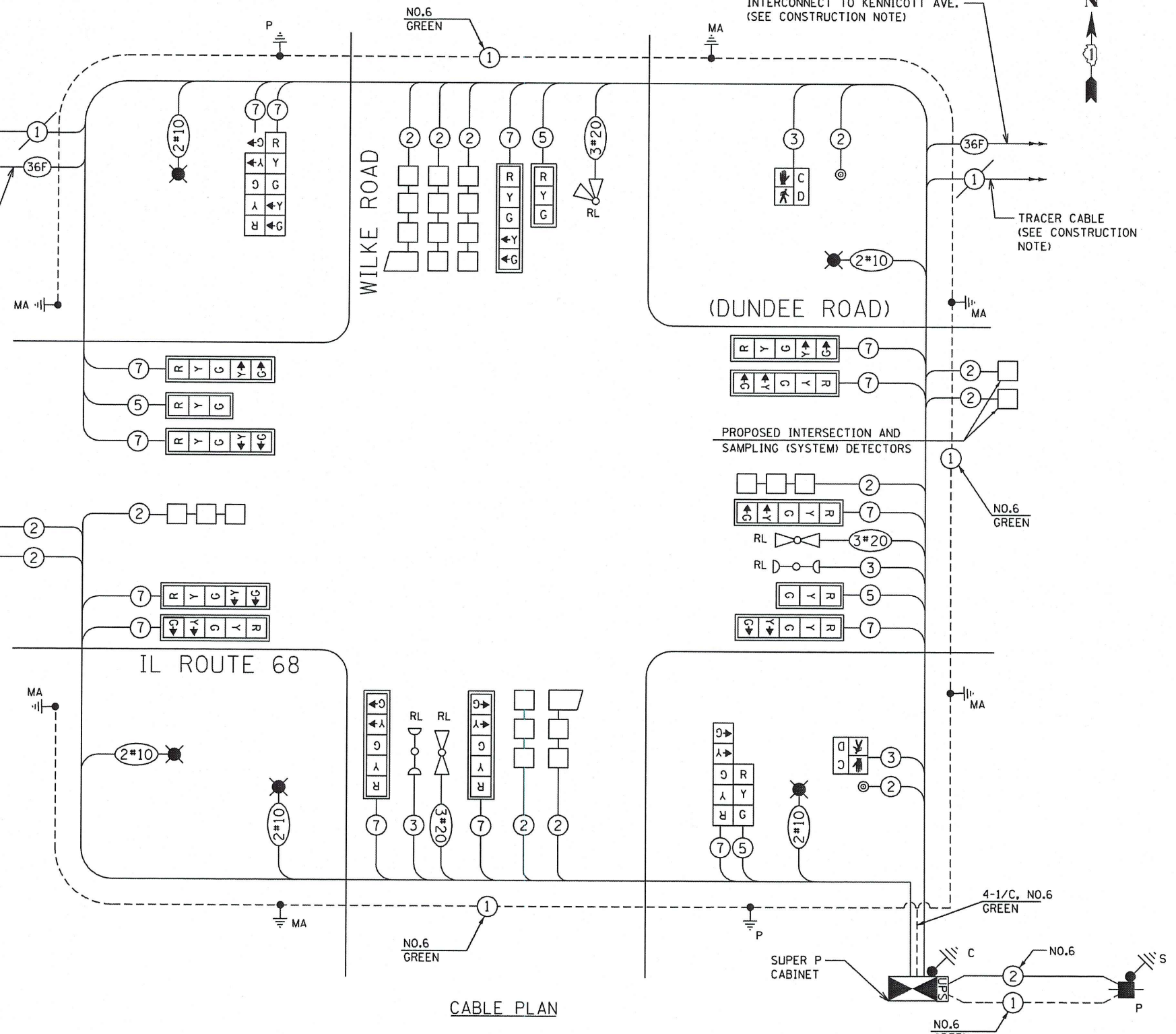
**EMERGENCY VEHICLE PREEMPTION SEQUENCE**



TRACER CABLE (SEE CONSTRUCTION NOTE)

INTERCONNECT TO IL ROUTE 53 E. RAMP (SEE CONSTRUCTION NOTE)

PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORS



**CABLE PLAN**

**CONSTRUCTION NOTE:**  
DISCONNECT AND REMOVE THE EXISTING INTERCONNECT CABLE FROM THE EXISTING WILKE RD. CONTROLLER CABINET TO THE EXISTING CONTROLLER CABINET ON THE NE CORNER OF IL 53 NB RAMP AND FROM THE WILKE RD. CONTROLLER CABINET TO THE EXISTING CONTROLLER AT KENNICOTT AVE.  
DISCONNECT AND PULL THE EXISTING TRACER CABLE FROM THE EXISTING WILKE RD. CONTROLLER CABINET TO THE HANDHOLE LOCATED ON THE NE CORNER OF THE IL 53 NB RAMP AND TO THE EXISTING HANDHOLE LOCATED AT STA. 507+73, 39' LT. COIL AND STORE THE TRACER CABLES IN THE HANDHOLES. RECONNECT THE NEW INTERCONNECT CABLE AND REINSTALL THE COILED TRACER CABLE TO THE NEW CONTROLLER CABINET WHEN THE PROPOSED CONTROLLER CABINET AND CONDUIT HAVE BEEN INSTALLED.

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

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE		%OPERATION	
SIGNAL (RED) (YELLOW) (GREEN)	18	17	17	0.50	153.0
	18	25	25	0.25	112.5
	18	15	15	0.25	67.5
ARROW	28	12	12	0.10	33.6
PED. SIGNAL	2	25	25	1.00	50.0
CONTROLLER	1	100	100	1.00	100.0
UPS	1	25	25	1.00	25.0
ILLUM. SIGN	-	25	25	0.05	-
VIDEO SYSTEM	-	150	150	1.00	-
LUMINAIRE LIGHT	5	400	400	0.50	1000.0
FLASHER	-	-	-	-	-
ENERGY COSTS TO:				TOTAL =	1541.6

VILLAGE OF ARLINGTON HEIGHTS  
33 S. ARLINGTON HEIGHTS ROAD  
ARLINGTON HEIGHTS, IL 60005  
ENERGY SUPPLY CONTACT: DONNA GILE  
PHONE: (630) 691-4529  
COMPANY: COMMONWEALTH EDISON

TS SHT NO. 13

FILE NAME = J:\13155\60V01\NONG\CADD Sheets\0160V01-13-15-Modified Cable Plan - Wilke.dgn	USER NAME = USER	DESIGNED - V.O.	REVISED -
PLOT SCALE = 20.0000' / 1in.	PLOT DATE = 9/23/2015	DRAWN - E.C.	REVISED -
		CHECKED - I.Y.	REVISED -
		DATE - 6/23/2015	REVISED -

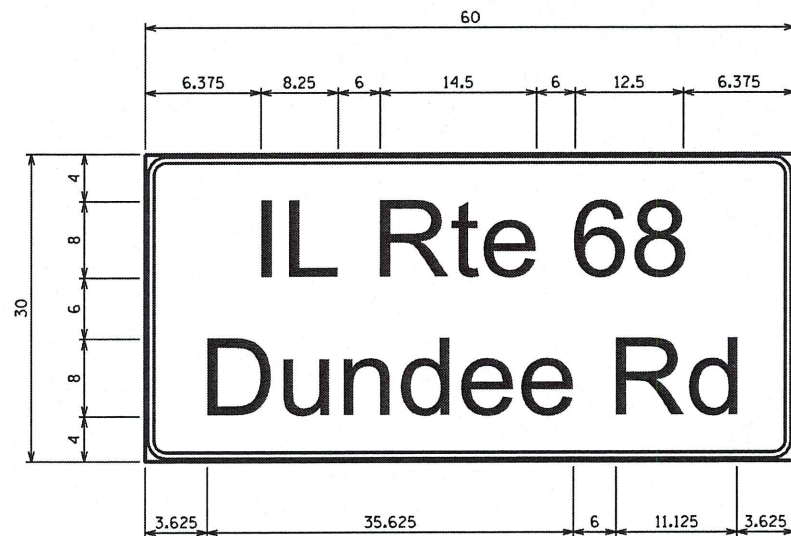
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND  
EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL ROUTE 68 (DUNDEE ROAD) AT WILKE ROAD**

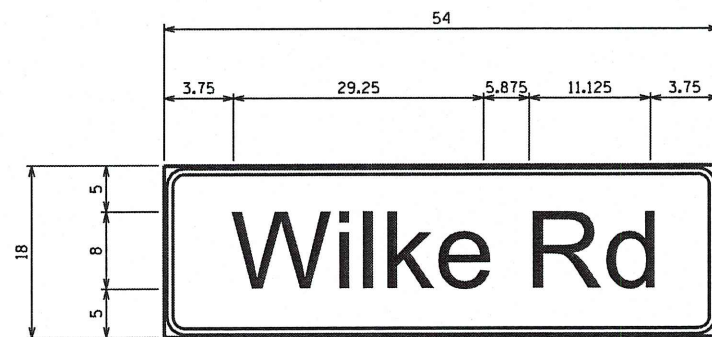
SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE. 343	SECTION (531-4HBK&3041-15D-2-RIN)	COUNTY COOK	TOTAL SHEETS 69	SHEET NO. 42
CONTRACT NO. 60V01				ILLINOIS FED. AID PROJECT

TS 3205



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



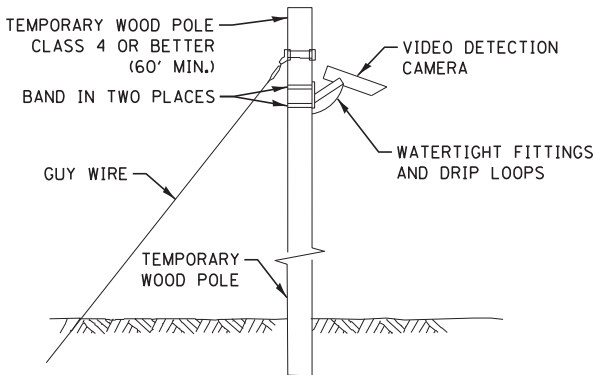
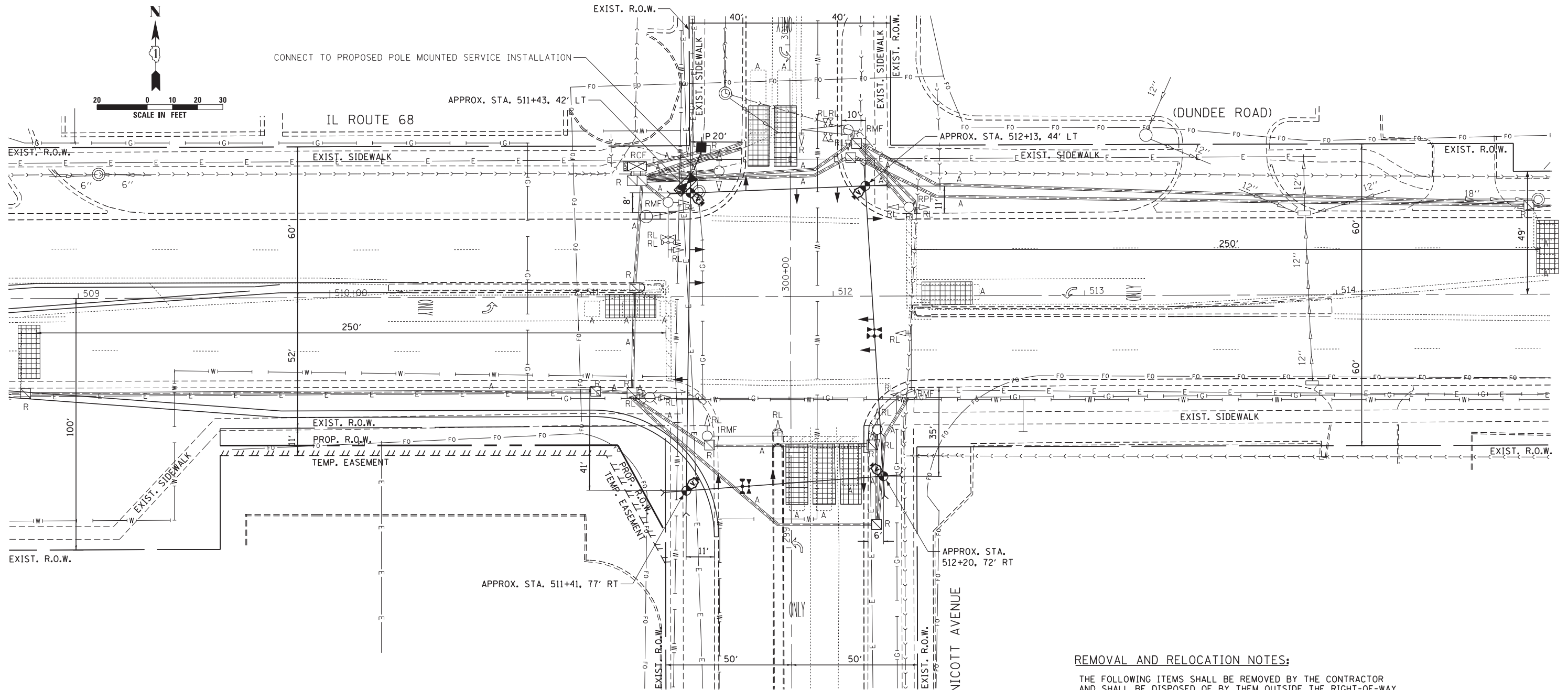
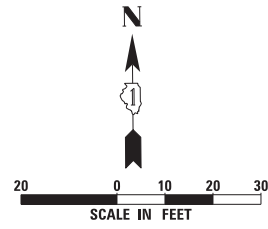
DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	6.75	1	ZZ	2

**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
13.5	SO FT	SIGN PANEL - TYPE 1
25	SO FT	SIGN PANEL - TYPE 2
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
843	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
72	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.
108	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
584	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
5	EACH	HANDHOLE
4	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
871	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
1240	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
857	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
3398	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
2315	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
89	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
1652	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
2	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 16 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 34 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 36 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 38 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 48 FT.
8	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
20	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
50	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
3	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
1	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
11	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
14	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC
11	EACH	INDUCTIVE LOOP DETECTOR
862	FOOT	DETECTOR LOOP, TYPE I
4	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
2	EACH	RELOCATE EXISTING TRAFFIC SIGNAL POST
3	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
11	EACH	REMOVE EXISTING HANDHOLE
1	EACH	REMOVE EXISTING DOUBLE HANDHOLE
9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
575	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	ELECTRIC SERVICE DISCONNECT, LIGHTING AND TRAFFIC SIGNAL
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING

• 100% OF THE COST TO THE VILLAGE OF ARLINGTON HEIGHTS

FILE NAME = J:\13155\60V01\DWG\CADD Sheets\DI60V01-1	USER NAME = .USER.	DESIGNED - V.O.	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES IL ROUTE 68 (DUNDEE RD) AND WILKE ROAD</b>	F.A.P. RTE. 343	SECTION (531-4HBK&3041-15D-2-RIN)	COUNTY COOK	TOTAL SHEETS 69	SHEET NO. 43		
PLOT SCALE = 20,0000' / 1" =	CHECKED - J.Y.	REVISED -	SCALE: NTS			SHEET NO. 1 OF 1 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 60V01			
PLOT DATE = 9/23/2015	DATE - 6/23/2015	REVISED -	ILLINOIS FED. AID PROJECT									



**TEMPORARY VIDEO DETECTION MOUNTING DETAIL**  
(NOT TO SCALE)

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

**REMOVAL AND RELOCATION NOTES:**

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 CONTRACTOR'S BID PRICE.

- 1 EACH CONTROLLER AND CABINET COMPLETE
- 4 EACH MAST ARM AND POLE
- 1 EACH SERVICE INSTALLATION
- 2 EACH SIGNAL HEAD, 1-FACE, 3-SECTION

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE RETURNED TO IDOT:

- 1 EACH UPS

THE FOLLOWING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SAFELY STORED AND RELOCATED TO THE PROPOSED TRAFFIC SIGNAL INSTALLATION. THE CONTRACTOR SHALL MAKE ALL NECESSARY CONNECTIONS TO ENSURE PROPER OPERATION OF THE RELOCATED EQUIPMENT.

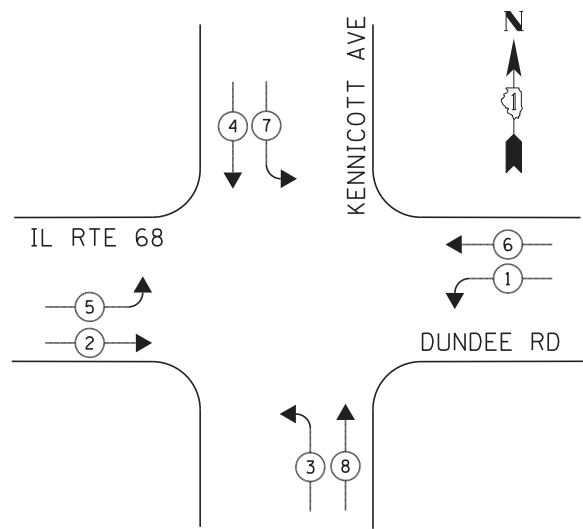
- 2 EACH CONFIRMATION BEACON
- 2 EACH LIGHT DETECTOR
- 1 EACH LIGHT DETECTOR AMPLIFIER
- 2 EACH 16' TRAFFIC SIGNAL POST
- 2 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
- 4 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
- 3 EACH SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION

TS SHT NO. 15

FILE NAME =	USER NAME = .USER.	DESIGNED - V.O.	REVISED - -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVAL PLAN IL ROUTE 68 (DUNDEE ROAD) AT KENNICOTT AVENUE PRE-STAGE</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
J:\13155\60V01\01\01\CADD Sheets\0160V01-sht-07 Temp Sig & Removal Plan - Kennicott.dgn	DRAWN - E.C.	REVISIED - -	343			(531-4HBK&3041-15D-2-RW)	COOK	69	44	
PLOT SCALE = 20.0000' / in.	CHECKED - I.Y.	REVISIED - -	<b>CONTRACT NO. 60V01</b>							
PLOT DATE = 7/10/2015	DATE - 6/23/2015	REVISIED - -	ILLINOIS FED. AID PROJECT							

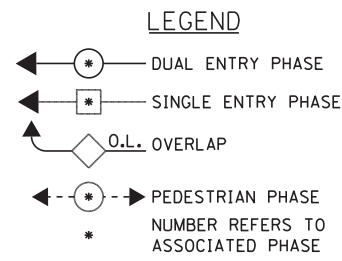
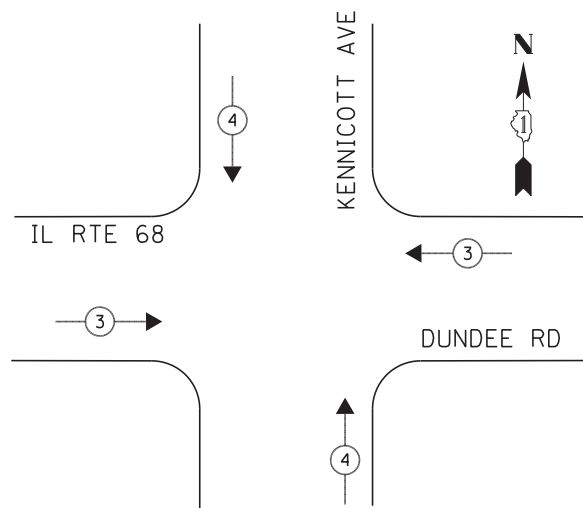
SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A

**TEMPORARY CONTROLLER SEQUENCE**



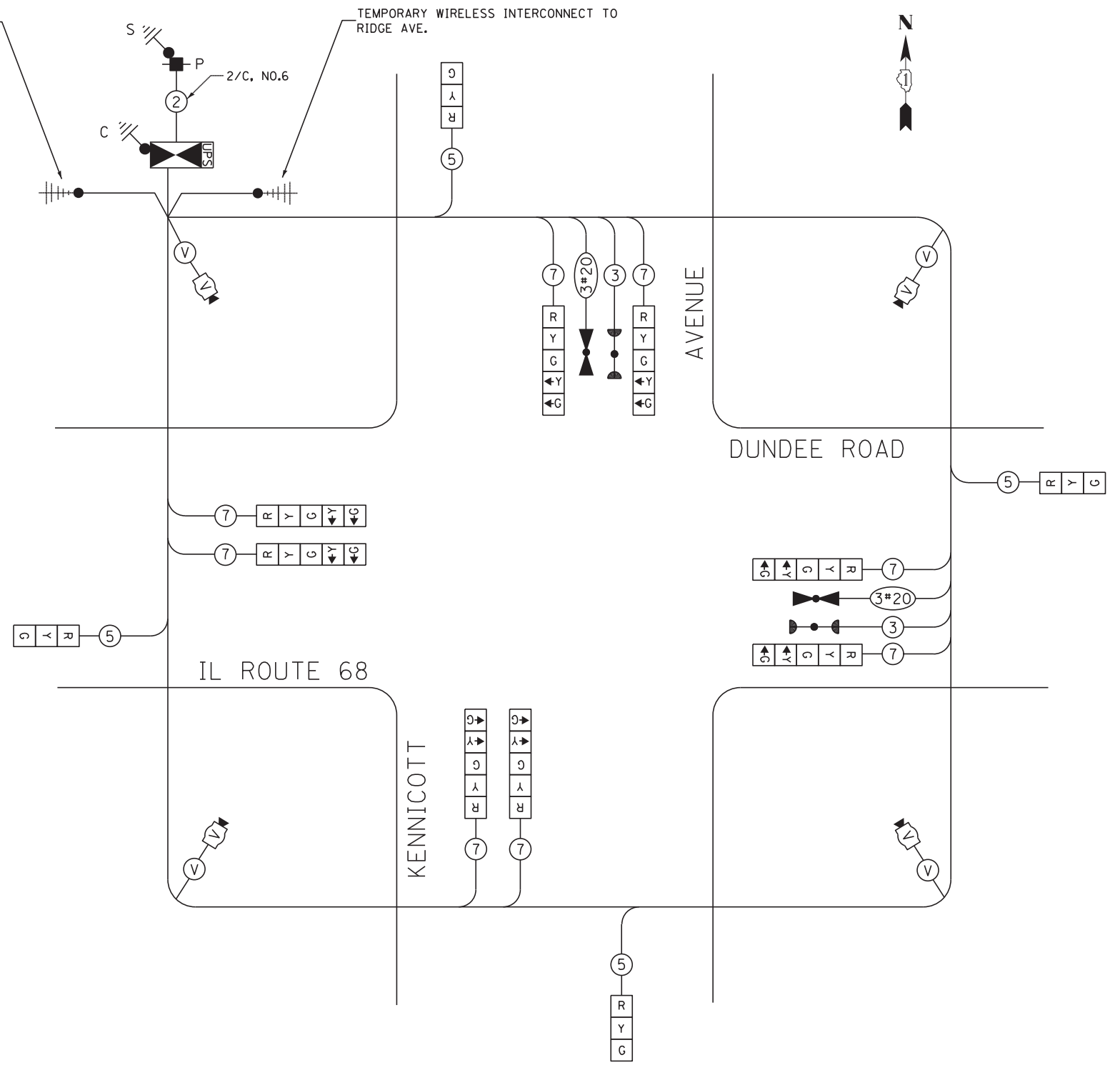
**TEMPORARY PHASE DESIGNATION DIAGRAM**

**TEMPORARY EMERGENCY VEHICLE  
PREEMPTION SEQUENCE**



TEMPORARY WIRELESS INTERCONNECT  
TO WILKE ROAD

TEMPORARY WIRELESS INTERCONNECT  
TO RIDGE AVE.



TEMPORARY CABLE PLAN

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO LAMPS	WATTAGE		%OPERATION	
		INCAND.	LED		
SIGNAL (RED)	12		17	0.50	102.00
(YELLOW)	12		25	0.25	75.00
(GREEN)	12		15	0.25	45.00
ARROW	16		12	0.10	19.20
PED. SIGNAL	-		25	1.00	-
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	-		25	0.05	-
VIDEO SYSTEM	1	150	-	1.00	150.00
FLASHER				-	
ENERGY COSTS TO:					TOTAL = 491.20
VILLAGE OF ARLINGTON HEIGHTS 33 S. ARLINGTON HEIGHTS ROAD ARLINGTON HEIGHTS, ILLINOIS 60005					
ENERGY SUPPLY CONTACT: <u>DONNA GILE</u>					
PHONE: <u>(630) 691-4529</u>					
COMPANY: <u>COMMONWEALTH EDISON</u>					

TS SHT NO. 16

FILE NAME =	USER NAME = .USER.	DESIGNED - V.O.	REVISED -
J:\13155\60V01\DCN\CADD Sheets\0160V01-sht-08-Temp Cable Plan - Kennicott.dgn		DRAWN - E.C.	REVISED -
		CHECKED - I.Y.	REVISED -
		DATE - 6/23/2015	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

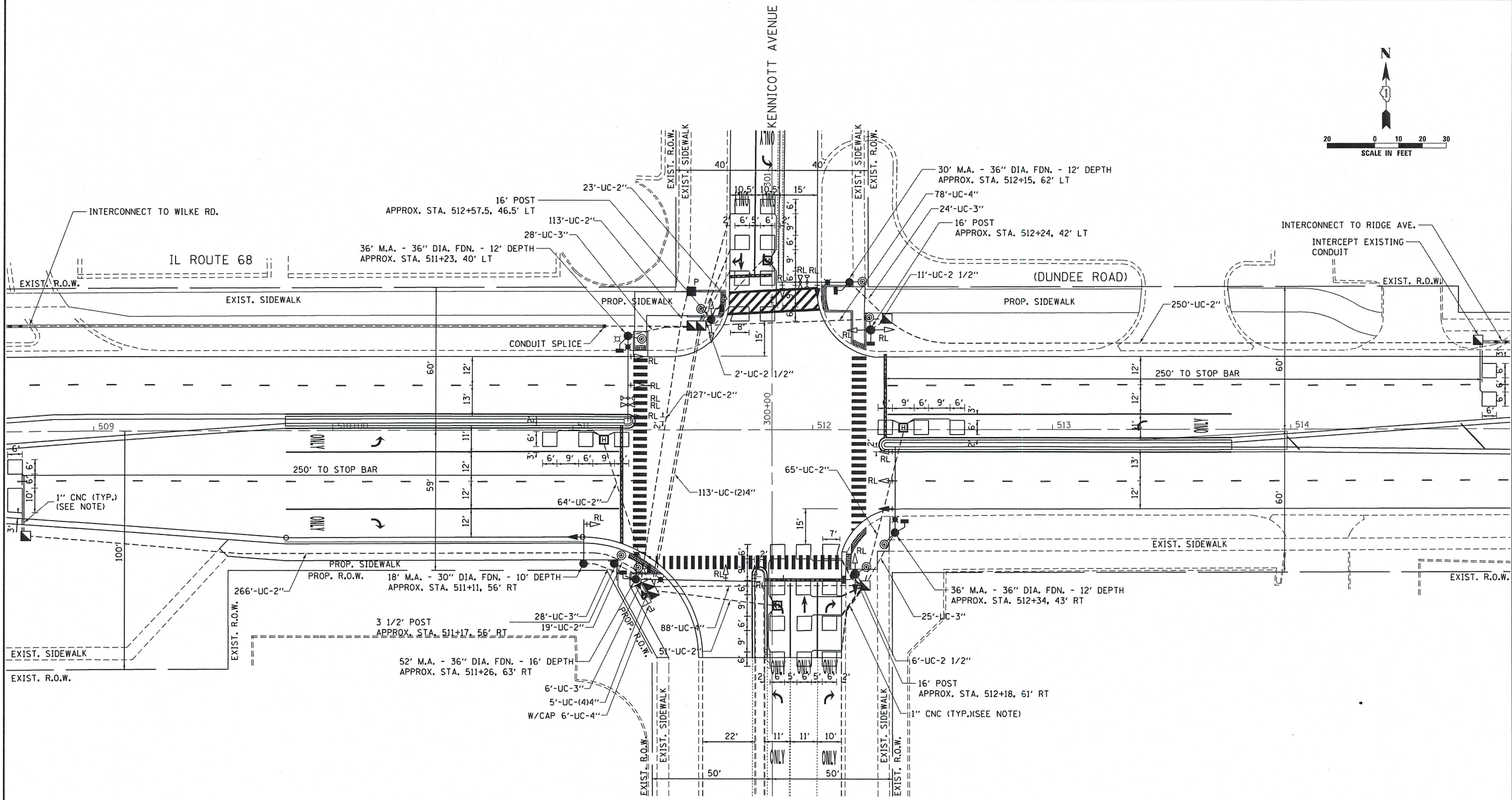
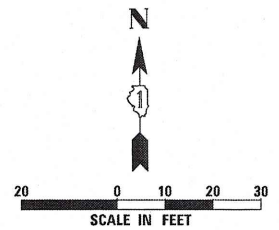
**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND  
TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE  
IL ROUTE 68 (DUNDEE ROAD) AND KENNICOTT AVENUE**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK&3041-15D-2-R/N)	COOK	69	45
CONTRACT NO. 60V01				
ILLINOIS FED. AID PROJECT				

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

TS 3130

SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A



- NOTES:
1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
  2. THE COST FOR RELOCATED TRAFFIC SIGNAL EQUIPMENT INCLUDING ALL NECESSARY CONNECTION AND NEW BRACKETS WILL BE INCLUDED IN THE RELOCATION EQUIPMENT PAY ITEM.

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

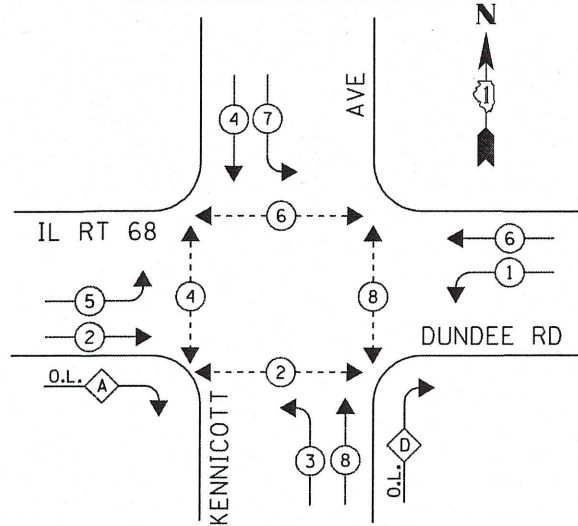
TS SHT NO. 17

TS 3130

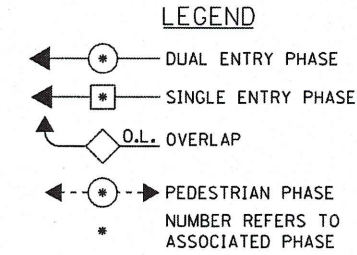
FILE NAME = J:\13155\60V01\00\GNCADD Sheets\016\016-11-09-Modernization Plan - Kennicott.dgn	USER NAME = .USER.	DESIGNED - V.O.	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC SIGNAL MODERNIZATION PLAN IL ROUTE 68 (DUNDEE ROAD) AT KENNICOTT AVENUE</b>			F.A.P. RTE. 343	SECTION (531-4HBK&3041-15D-2-RIN)	COUNTY COOK	TOTAL SHEETS 69	SHEET NO. 46
PLOT SCALE = 20.0000' / 1" =	CHECKED - I.Y.	REVISOR -	REVISOR -		SCALE: 1"=20'	SHEET NO. 1	OF 1 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 60V01		
PLOT DATE = 9/23/2015	DATE - 6/23/2015	REVISOR -	REVISOR -		ILLINOIS FED. AID PROJECT							



**CONTROLLER SEQUENCE**



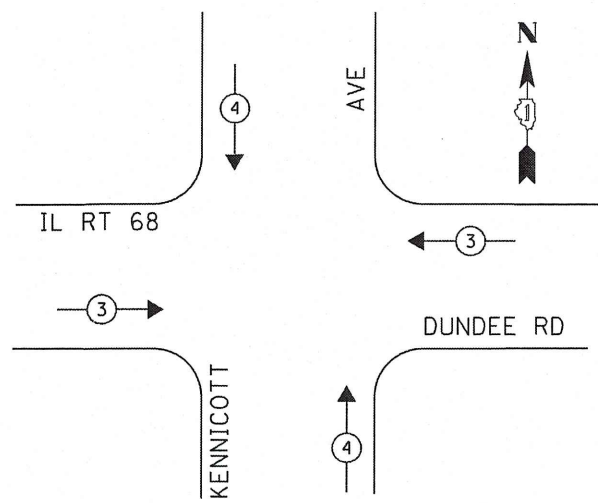
**PHASE DESIGNATION DIAGRAM**



**PHASE DESIGNATION DIAGRAM**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
D	= 8	+ 1

**EMERGENCY VEHICLE PREEMPTION SEQUENCE**

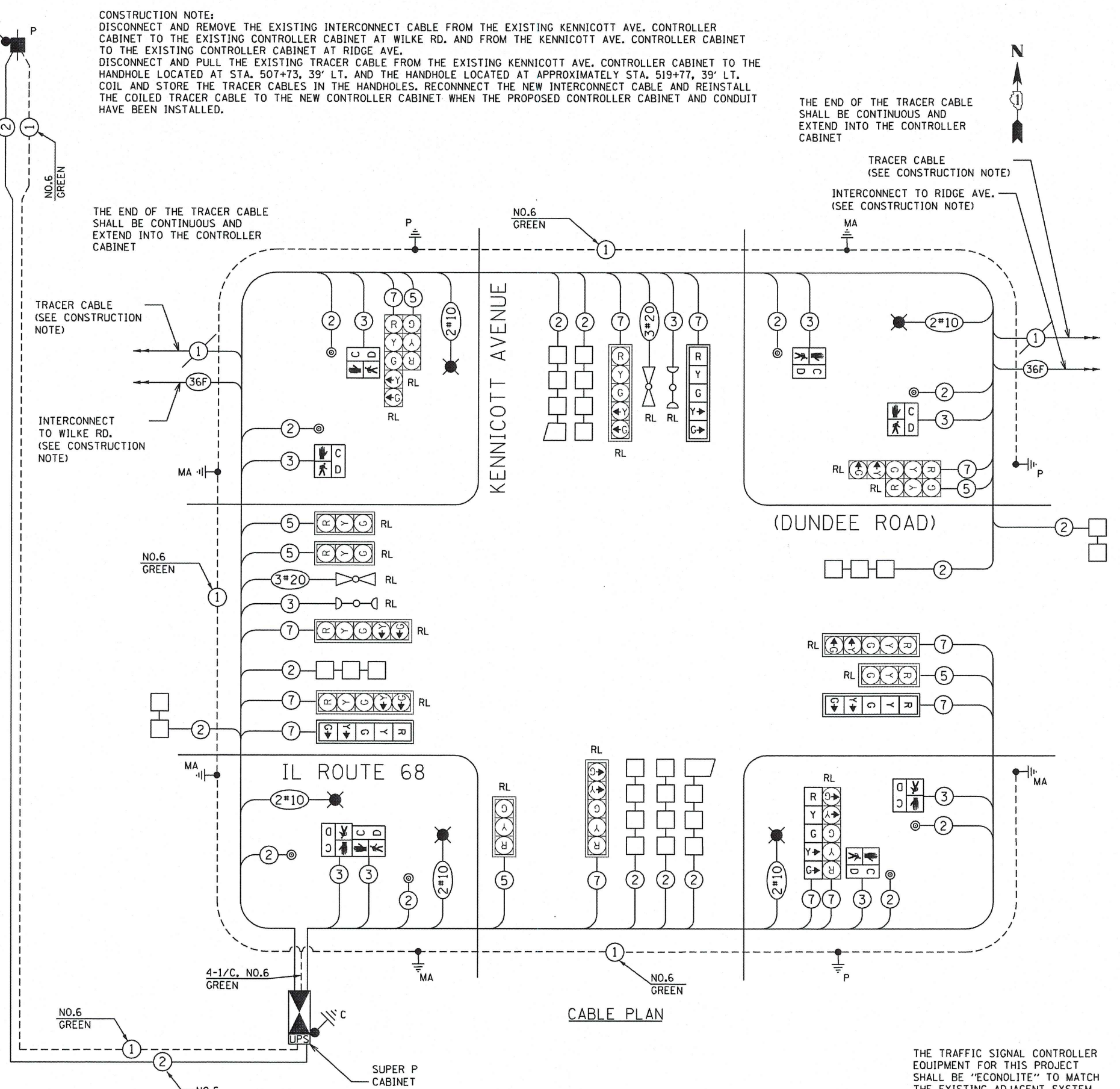


**CONSTRUCTION NOTE:**  
DISCONNECT AND REMOVE THE EXISTING INTERCONNECT CABLE FROM THE EXISTING KENNICOTT AVE. CONTROLLER CABINET TO THE EXISTING CONTROLLER CABINET AT WILKE RD. AND FROM THE KENNICOTT AVE. CONTROLLER CABINET TO THE EXISTING CONTROLLER CABINET AT RIDGE AVE.  
DISCONNECT AND PULL THE EXISTING TRACER CABLE FROM THE EXISTING KENNICOTT AVE. CONTROLLER CABINET TO THE HANDHOLE LOCATED AT STA. 507+73, 39' LT. AND THE HANDHOLE LOCATED AT APPROXIMATELY STA. 519+77, 39' LT. COIL AND STORE THE TRACER CABLES IN THE HANDHOLES. RECONNECT THE NEW INTERCONNECT CABLE AND REINSTALL THE COILED TRACER CABLE TO THE NEW CONTROLLER CABINET WHEN THE PROPOSED CONTROLLER CABINET AND CONDUIT HAVE BEEN INSTALLED.

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

TRACER CABLE (SEE CONSTRUCTION NOTE)

INTERCONNECT TO WILKE RD. (SEE CONSTRUCTION NOTE)



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

TRACER CABLE (SEE CONSTRUCTION NOTE)  
INTERCONNECT TO RIDGE AVE. (SEE CONSTRUCTION NOTE)

**CABLE PLAN**

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

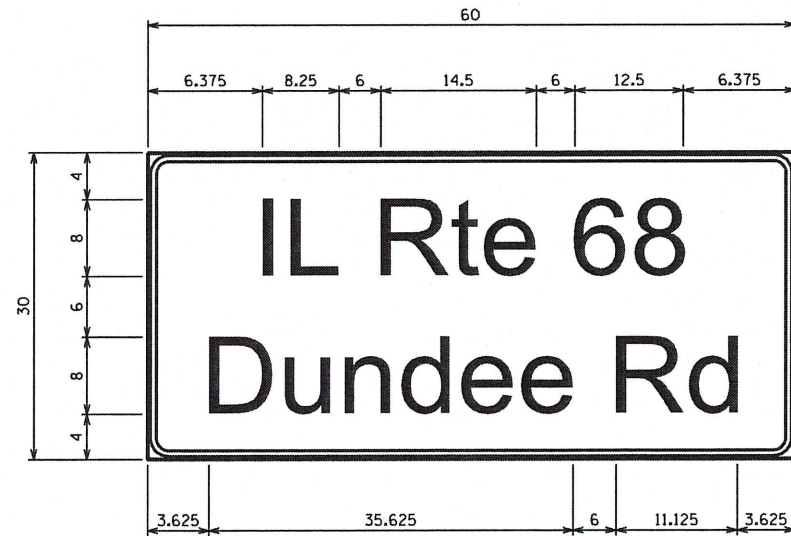
I.D.O.T.  
TRAFFIC SIGNAL INSTALLATION  
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO LAMPS	WATTAGE		%OPERATION	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	18	17	0.50	153.00	
(YELLOW)	18	25	0.25	112.50	
(GREEN)	18	15	0.25	67.50	
ARROW	24	12	0.10	28.80	
PED. SIGNAL	8	25	1.00	200.00	
CONTROLLER	1	100	1.00	100.00	
UPS	1	25	1.00	25.00	
ILLUM. SIGN	-	25	0.05	-	
VIDEO SYSTEM	-	150	1.00	-	
LUMINAIRE LIGHT	5	400	0.50	1000.0	
FLASHER	-	-	-	-	
ENERGY COSTS TO:				TOTAL =	1686.80

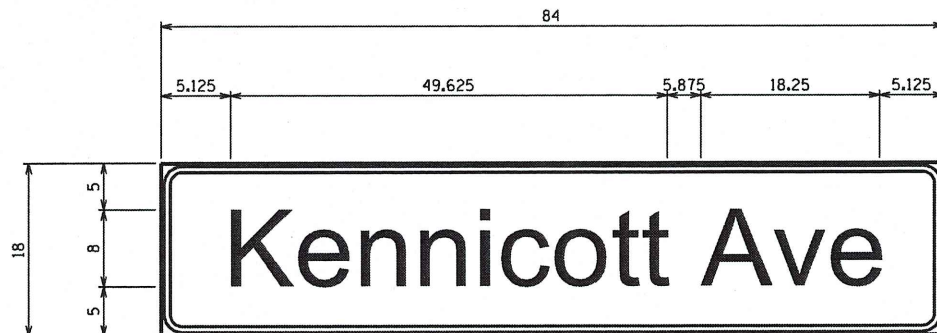
VILLAGE OF ARLINGTON HEIGHTS  
33 S. ARLINGTON HEIGHTS ROAD  
ARLINGTON HEIGHTS, IL 60005

ENERGY SUPPLY CONTACT: DONNA GILE  
PHONE: (630) 691-4529  
COMPANY: COMMONWEALTH EDISON

TS SHT NO. 18



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.5	2	ZZ	2



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	10.5	2	ZZ	2

**SCHEDULE OF QUANTITIES**

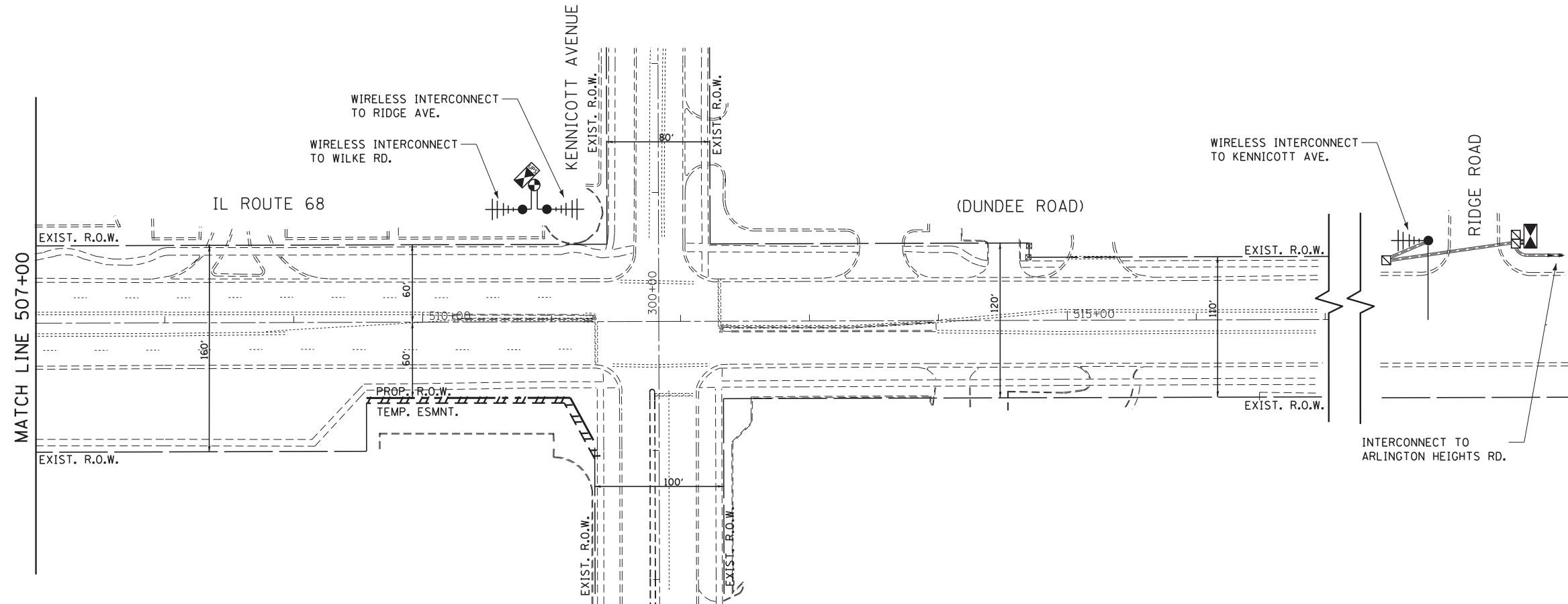
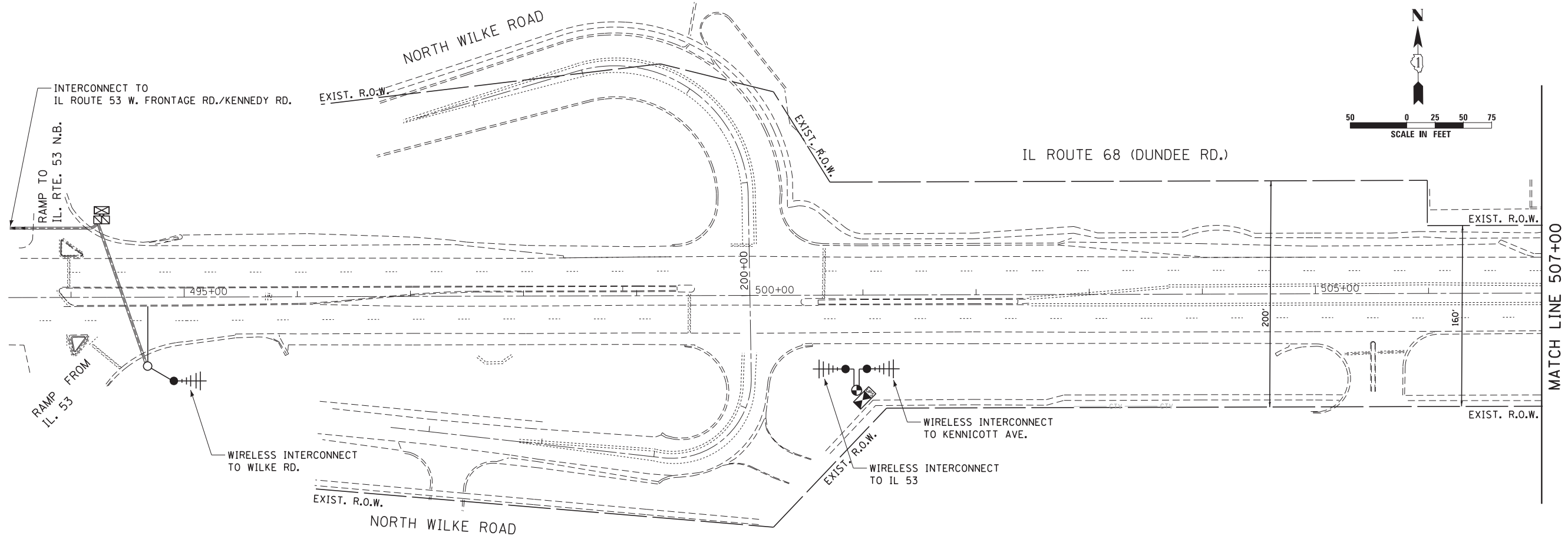
QUANTITY	UNIT	ITEM
46	SO FT	SIGN PANEL - TYPE 2
1	EACH	SERVICE INSTALLATION - POLE MOUNTED
911	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
25	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.
102	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
418	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
4	EACH	HANDHOLE
4	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
1248	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
1838	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
968	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
2240	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
1695	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
160	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
1218	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 3 1/2 FT.
3	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
1	EACH	STEEL MAST ARM ASSEMBLY AND POLE, 18 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 30 FT.
2	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 36 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 52 FT.
16	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
10	FOOT	CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER
52	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
1	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED
3	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
8	EACH	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
8	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC
9	EACH	INDUCTIVE LOOP DETECTOR
927	FOOT	DETECTOR LOOP, TYPE I
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
14	EACH	RELOCATE EXISTING SIGNAL HEAD
2	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, DETECTOR UNIT
1	EACH	RELOCATE EXISTING EMERGENCY VEHICLE PRIORITY SYSTEM, PHASING UNIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
9	EACH	REMOVE EXISTING HANDHOLE
1	EACH	REMOVE EXISTING DOUBLE HANDHOLE
7	EACH	REMOVE EXISTING CONCRETE FOUNDATION
534	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C
1	EACH	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)
1	EACH	UNINTERRUPTABLE POWER SUPPLY, SPECIAL
1	EACH	ELECTRIC SERVICE DISCONNECT, LIGHTING AND TRAFFIC SIGNAL
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING

• 100% OF THE COST TO THE VILLAGE OF ARLINGTON HEIGHTS

TS SHT NO. 19

TS 3130

FILE NAME = J:\13155\60V01\01\01\CADD Sheets\0160V01-11-Mast Arm Mounted - Kennicott.dgn	USER NAME = .USER.	DESIGNED - V.O.	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES IL ROUTE 68 (DUNDEE RD) AND KENNICOTT AVE</b>	F.A.P. RTE. 343	SECTION (531-4HBK&3041-15D-2-RIN)	COUNTY COOK	TOTAL SHEETS 69	SHEET NO. 48		
PLOT SCALE = 20.0000' / in.	CHECKED - I.Y.	REVISED -	SCALE: NTS			SHEET NO. 1 OF 1 SHEETS	STA. N/A	TO STA. N/A	ILLINOIS FED. AID PROJECT			
PLOT DATE = 9/24/2015	DATE - 6/23/2015	REVISED -	CONTRACT NO. 60V01									



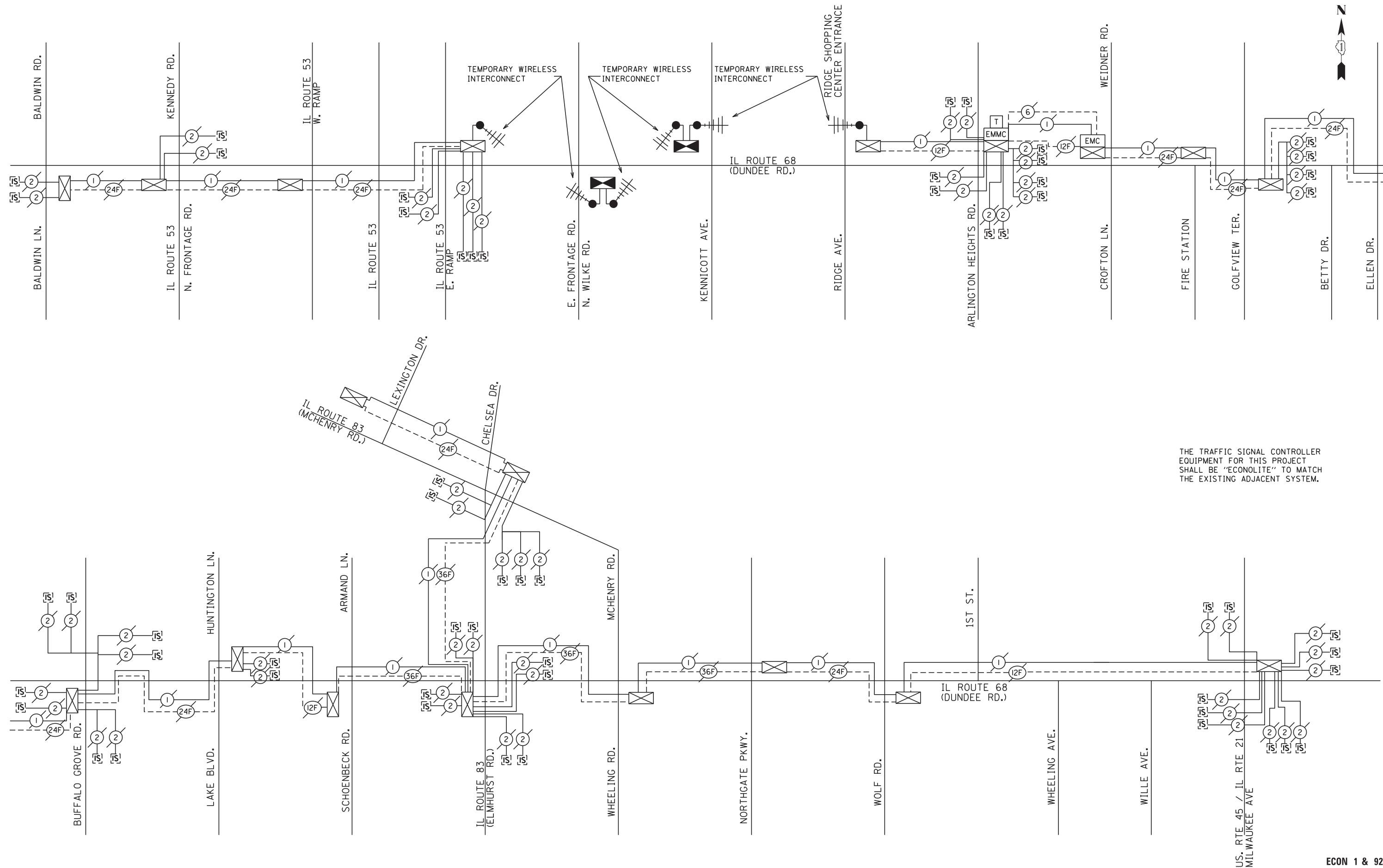
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME =	J:\13155\60V01\DCN\CADD Sheets\0160V01-sht-12-Temp Interconnect Plan.dgn	DESIGNED -	V.O.	REVISED -	-
USER NAME =	_USER_	DRAWN -	E.C.	REVISED -	-
PLOT SCALE =	50.0000' / in.	CHECKED -	I.Y.	REVISED -	-
PLOT DATE =	7/10/2015	DATE -	6/23/2015	REVISED -	-

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT PLAN  
IL ROUTE 68 (DUNDEE ROAD) FROM IL ROUTE 53 TO RIDGE ROAD**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK&3041-15D-2-R/W)	COOK	69	49
CONTRACT NO. 60V01				
ILLINOIS FED. AID PROJECT				



THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

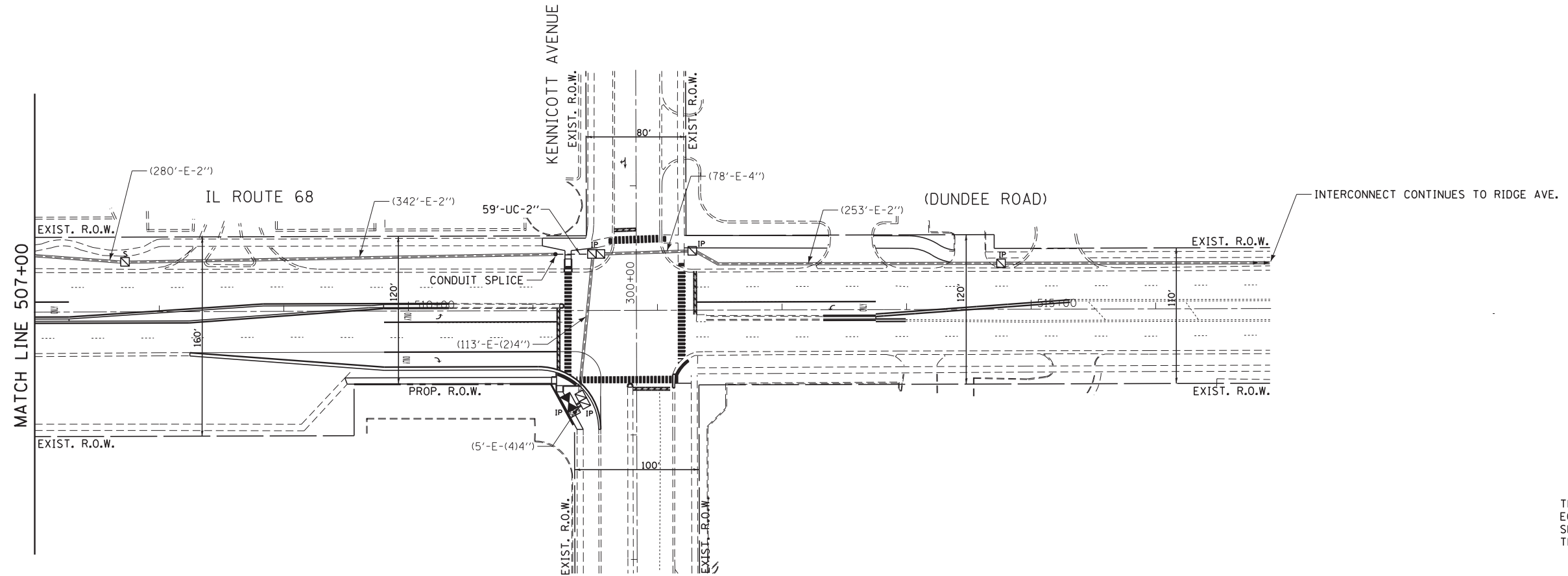
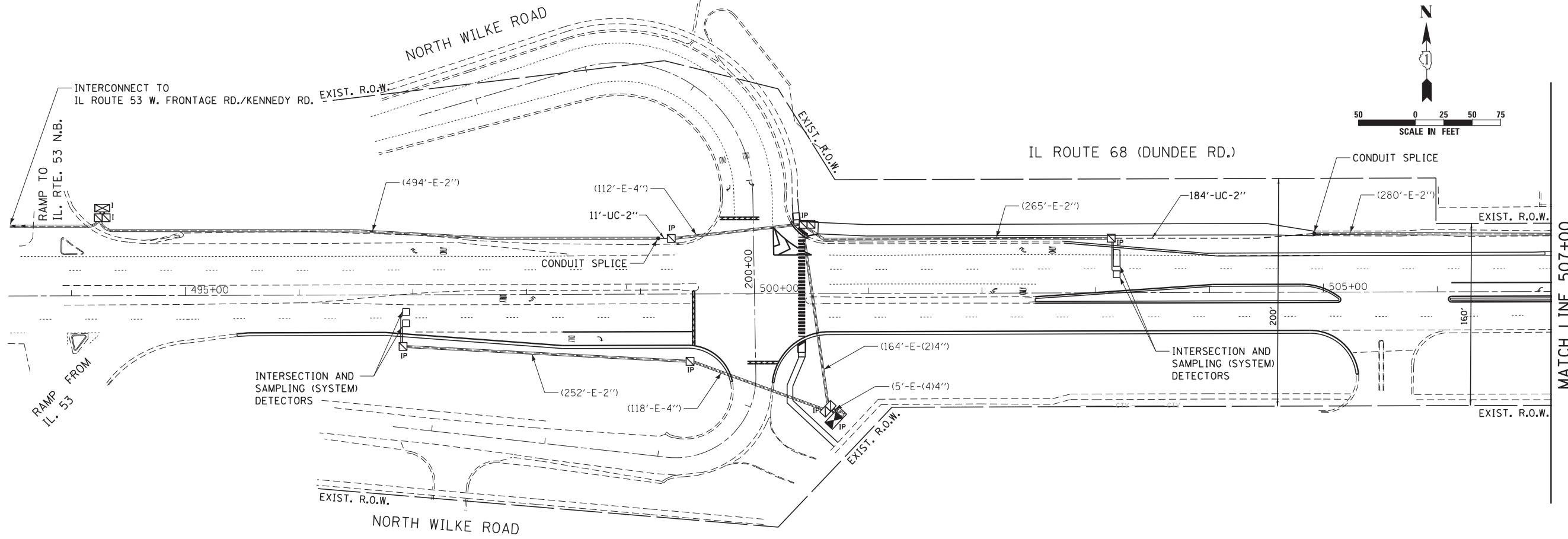
FILE NAME = J:\13155\60V01\DGN\CADD Sheets\0160V01-sht-13-Temp Interconnect Schematic.dgn	USER NAME = _USER_	DESIGNED - V.O.	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - I.Y.	DRAWN - E.C.	REVISED -
PLOT DATE = 7/10/2015	DATE - 6/23/2015		REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY INTERCONNECT SCHEMATIC  
IL ROUTE 68 (DUNDEE RD.) FROM BALDWIN RD. TO US45/IL21 MILWAUKEE AVE.**

SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE. 343	SECTION (531-4HBK&3041-15D-2-RN)	COUNTY COOK	TOTAL SHEETS 69	SHEET NO. 50
CONTRACT NO. 60V01				
ILLINOIS FED. AID PROJECT				

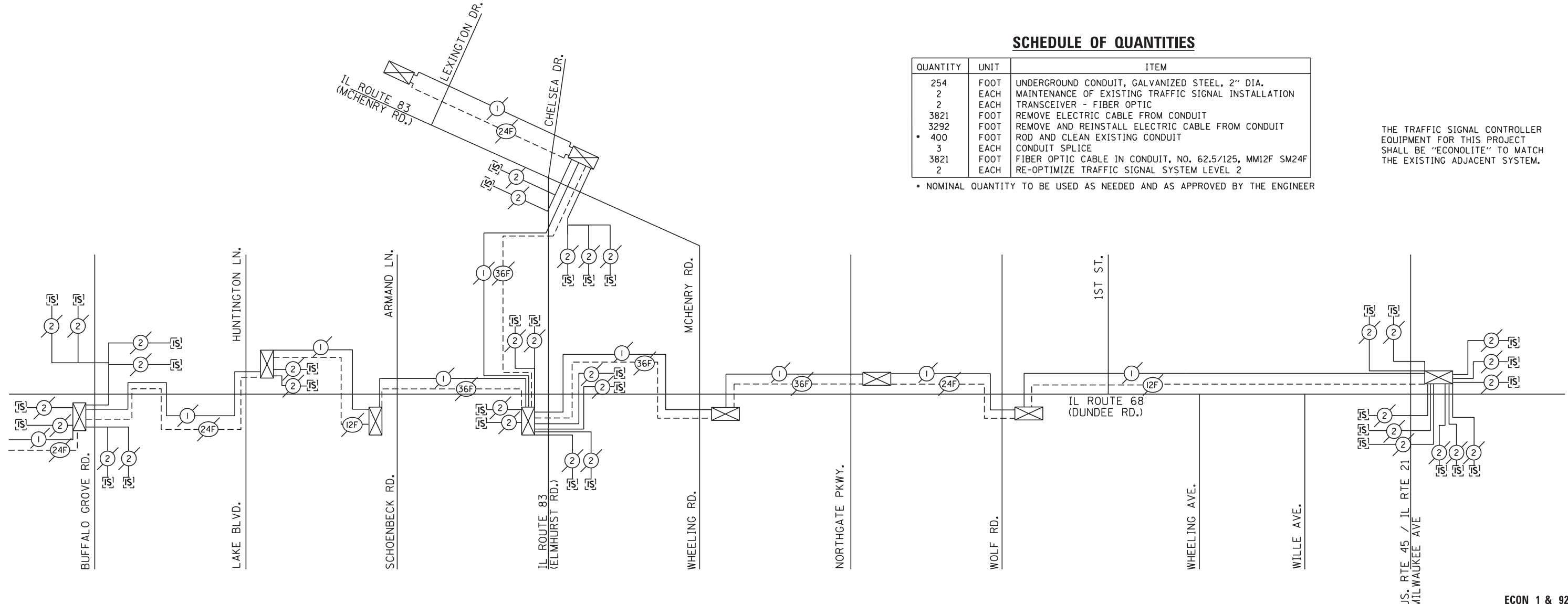
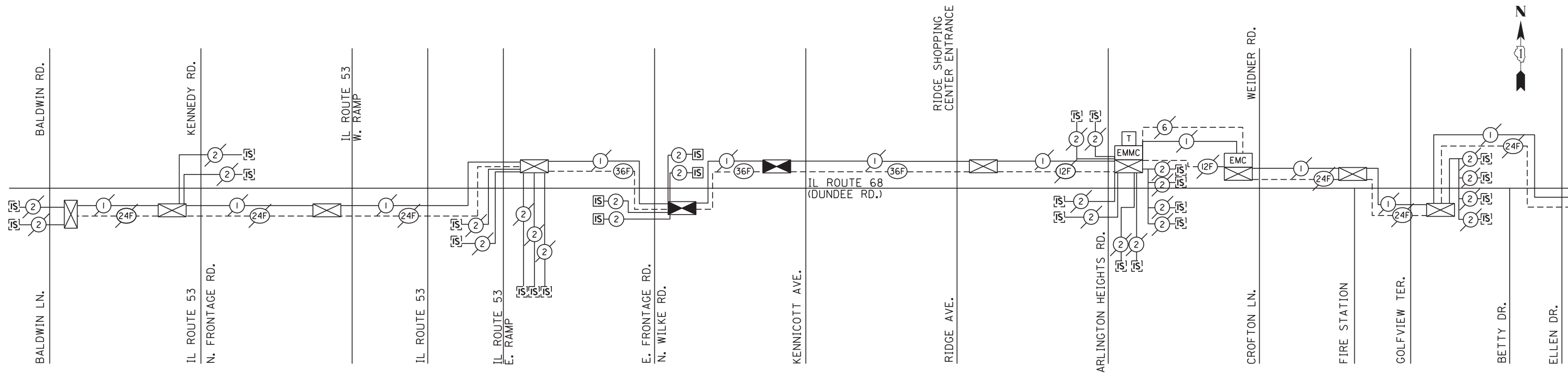


TS SHT NO. 22

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

ECON 1

FILE NAME = J:\13155\60V01\DCN\CADD Sheets\0160V01-sht-14- Modernized Interconnect Plan.dgn	USER NAME = _USER_	DESIGNED - V.O.	REVISED - -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INTERCONNECT PLAN</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - E.C.	REVISED - -		<b>IL ROUTE 68 (DUNDEE ROAD) FROM IL ROUTE 53 TO KENNICOTT AVE.</b>				343	(531-4HBK&3041-15D-2-R/W)	COOK	69	51	
		CHECKED - I.Y.	REVISED - -		SCALE: 1"=50'				SHEET NO. 1 OF 1 SHEETS		STA. N/A TO STA. N/A		CONTRACT NO. 60V01	
		DATE - 6/23/2015	REVISED - -		ILLINOIS FED. AID PROJECT									



**SCHEDULE OF QUANTITIES**

QUANTITY	UNIT	ITEM
254	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
2	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
2	EACH	TRANSCEIVER - FIBER OPTIC
3821	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
3292	FOOT	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT
400	FOOT	ROD AND CLEAN EXISTING CONDUIT
3	EACH	CONDUIT SPLICE
3821	FOOT	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F
2	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2

• NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY THE ENGINEER

THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

FILE NAME =	J:\13155\60V01\DCN\CADD Sheets\0160V01-sht-15- Interconnect Schematic.dgn
USER NAME =	_USER_
DESIGNED -	V.O.
DRAWN -	E.C.
CHECKED -	I.Y.
DATE -	6/23/2015
PLOT SCALE =	20.0000' / in.
PLOT DATE =	7/10/2015

REVISED -	
REVISED -	
REVISED -	
REVISED -	

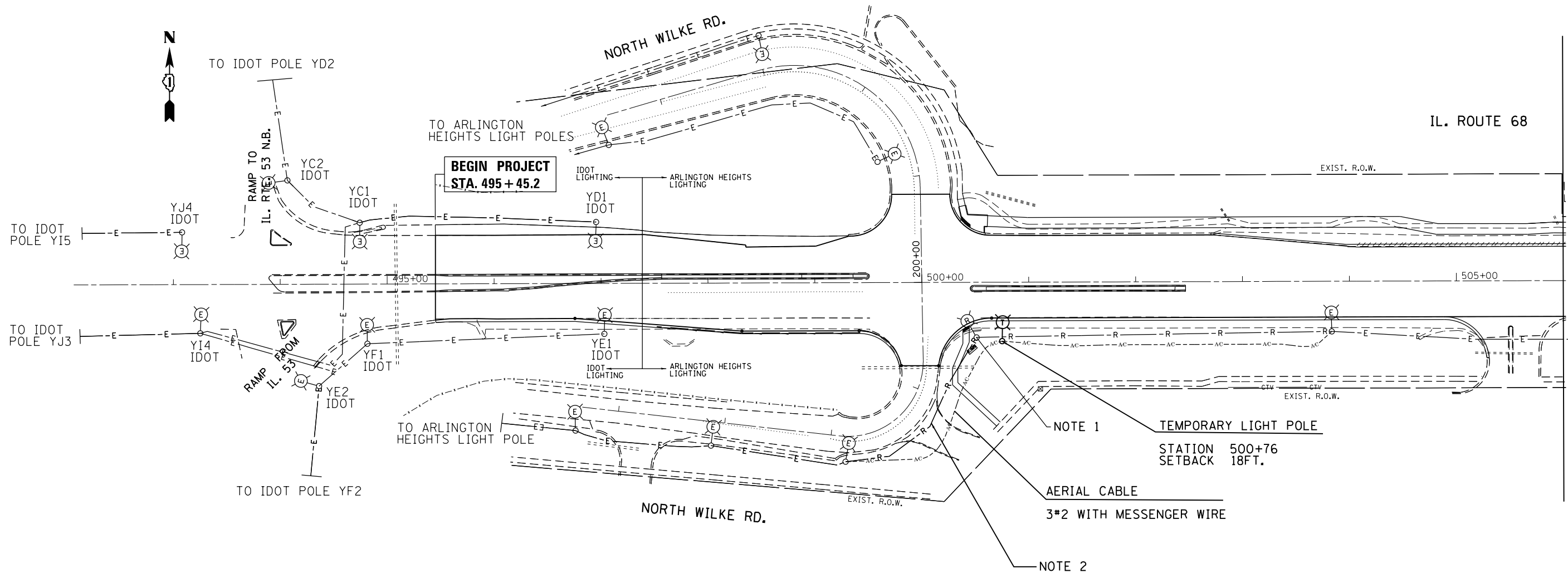
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**INTERCONNECT SCHEMATIC  
IL ROUTE 68 (DUNDEE RD.) FROM BALDWIN RD. TO US45/121 MILWAUKEE AVE.**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK&3041-15D-2-RN)	COOK	69	52
CONTRACT NO. 60V01				
ILLINOIS FED. AID PROJECT				

SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A





NOTE 1  
 TEMPORARY LIGHT POLE  
 STATION 500+76  
 SETBACK 18FT.

AERIAL CABLE  
 3#2 WITH MESSENGER WIRE

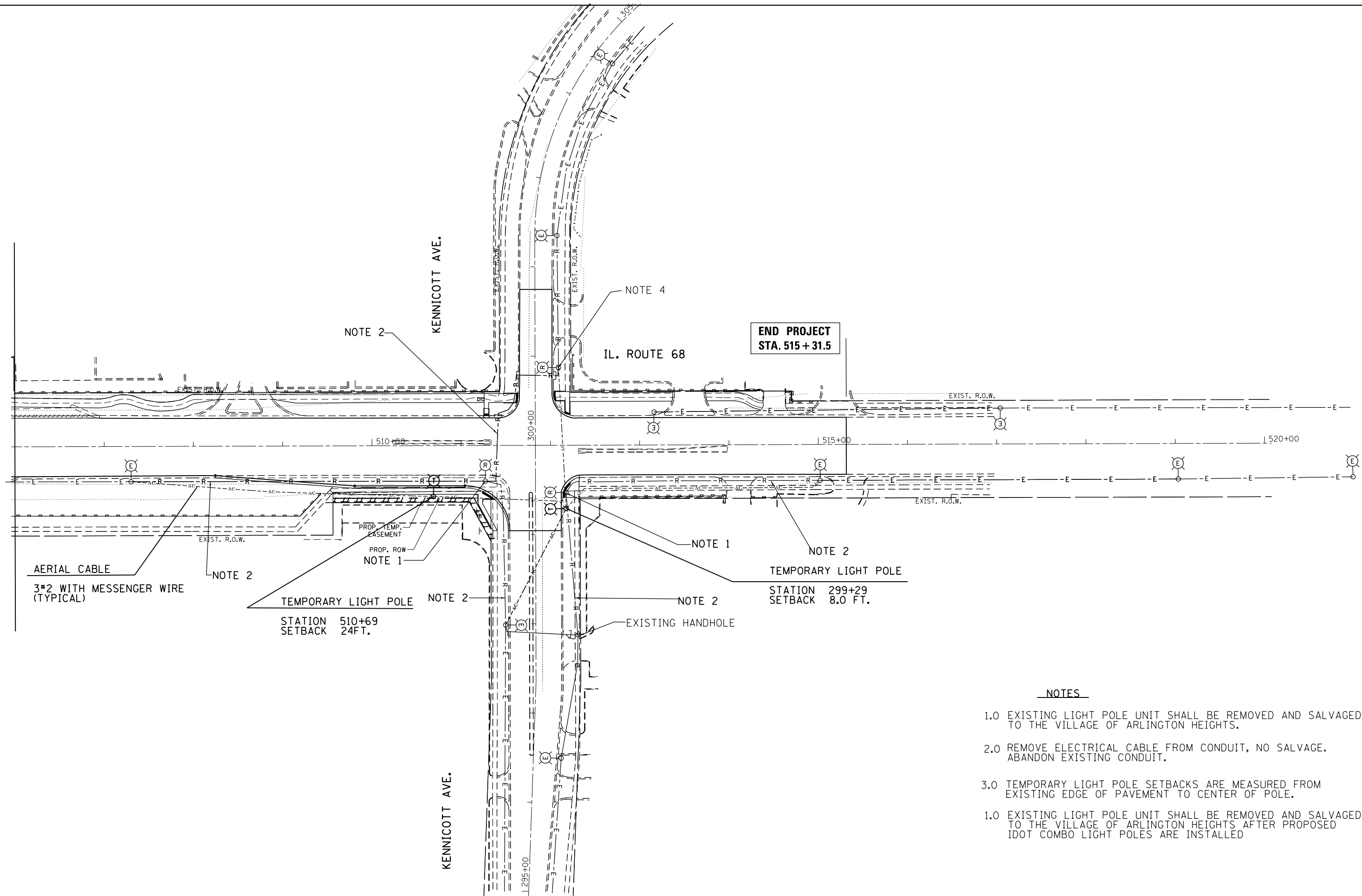
NOTE 2

NOTES

- 1.0 EXISTING LIGHT POLE UNIT SHALL BE REMOVED AND SALVAGED TO THE VILLAGE OF ARLINGTON HEIGHTS.
- 2.0 REMOVE ELECTRICAL CABLE FROM CONDUIT, NO SALVAGE. ABANDON EXISTING CONDUIT.
- 3.0 TEMPORARY LIGHT POLE SETBACK IS MEASURED FROM EXISTING EDGE OF PAVEMENT TO CENTER OF POLE.

FILE NAME =	USER NAME = godinhot	DESIGNED - TG	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING AND TEMPORARY LIGHTING PLAN IL ROUTE 68 (DUNDEE ROAD) AT WILKE RD.</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG\illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\PI24912\Drawings\Electrical\4912-light.dgn		DRWN - TG	REVISED -			343	(531-4HBK&3041-15D-2-RW)	COOK	69	52B	
Default		CHECKED -	REVISED -			CONTRACT NO. 60V01		ILLINOIS FED. AID PROJECT			
		DATE - 9/9/2015	REVISED -			SCALE:	SHEET OF SHEETS	STA.	TO STA.		

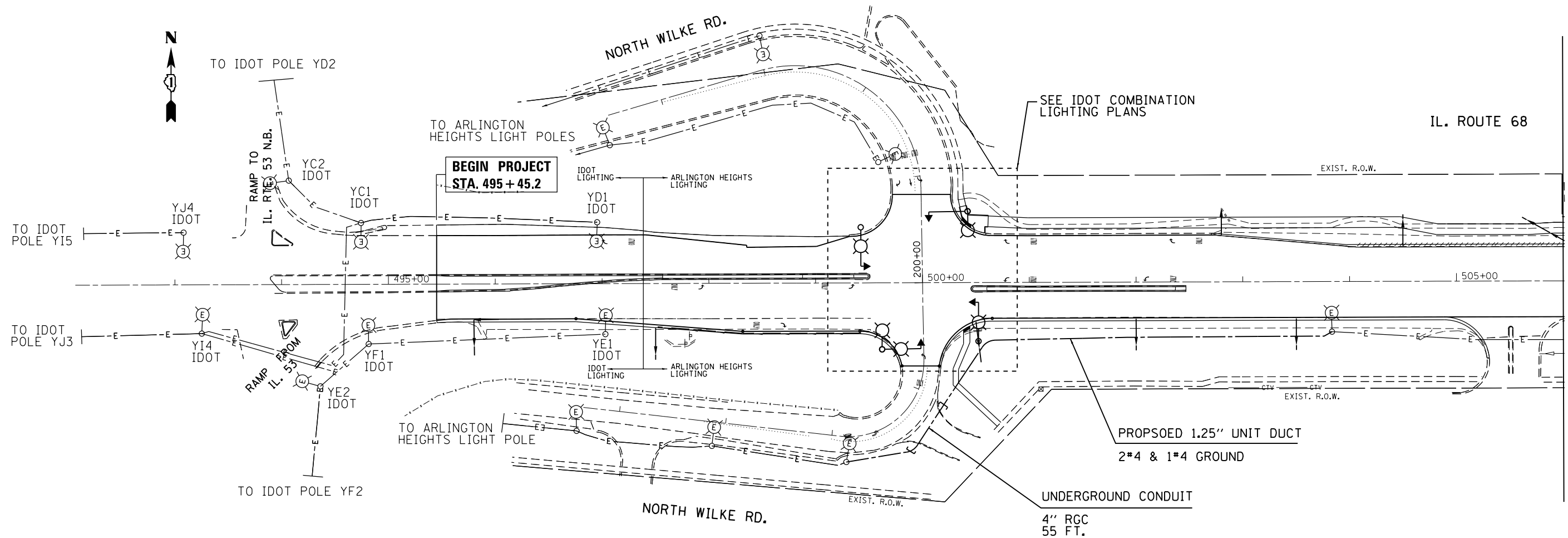




**NOTES**

- 1.0 EXISTING LIGHT POLE UNIT SHALL BE REMOVED AND SALVAGED TO THE VILLAGE OF ARLINGTON HEIGHTS.
- 2.0 REMOVE ELECTRICAL CABLE FROM CONDUIT, NO SALVAGE. ABANDON EXISTING CONDUIT.
- 3.0 TEMPORARY LIGHT POLE SETBACKS ARE MEASURED FROM EXISTING EDGE OF PAVEMENT TO CENTER OF POLE.
- 1.0 EXISTING LIGHT POLE UNIT SHALL BE REMOVED AND SALVAGED TO THE VILLAGE OF ARLINGTON HEIGHTS AFTER PROPOSED IDOT COMBO LIGHT POLES ARE INSTALLED

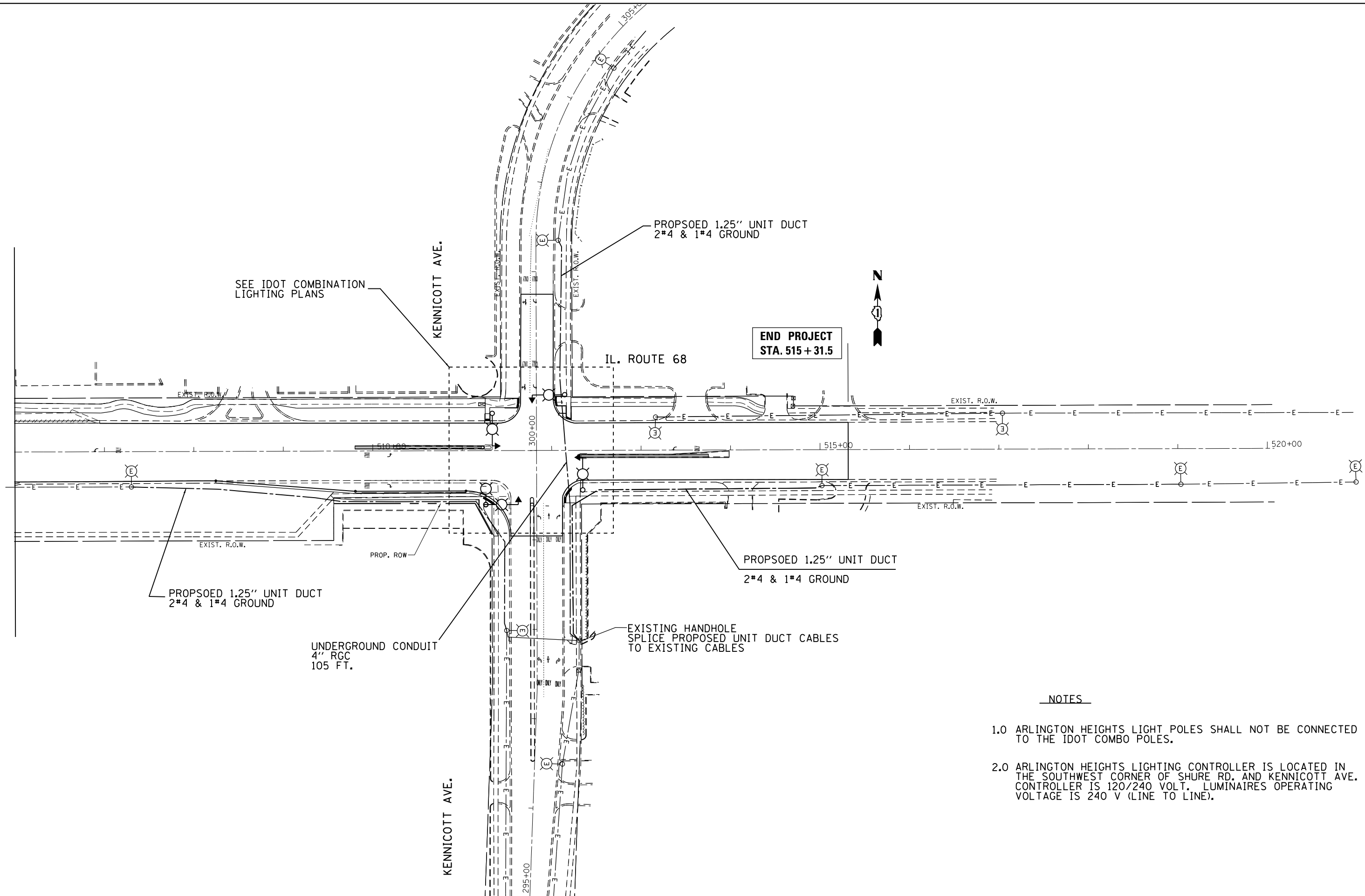
FILE NAME =	USER NAME = godinhot	DESIGNED - TG	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EXISTING AND TEMPORARY LIGHTING PLAN IL ROUTE 68 (DUNDEE ROAD) AT KENNICOTT AVENUE</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\1\084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\PI2491\Drawings\Electrical\150-2-11-15-light.dgn	DRAWN - TG	REVISED -	343			1531-4HBK&3041-150-2-RW	COOK	69	52C	
Default	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -			CONTRACT NO. 60V01				
	PLOT DATE = 9/21/2015	DATE - 9/9/2015	REVISED -			ILLINOIS FED. AID PROJECT				



NOTES

1.0 ARLINGTON HEIGHTS LIGHT POLES SHALL NOT BE CONNECTED TO THE IDOT COMBO POLES.

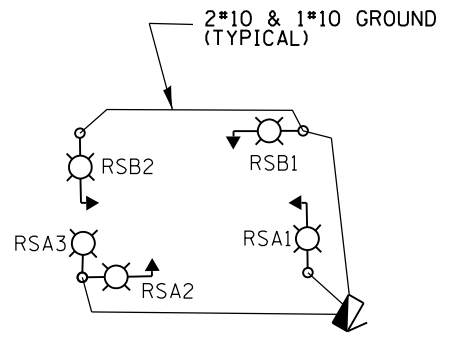
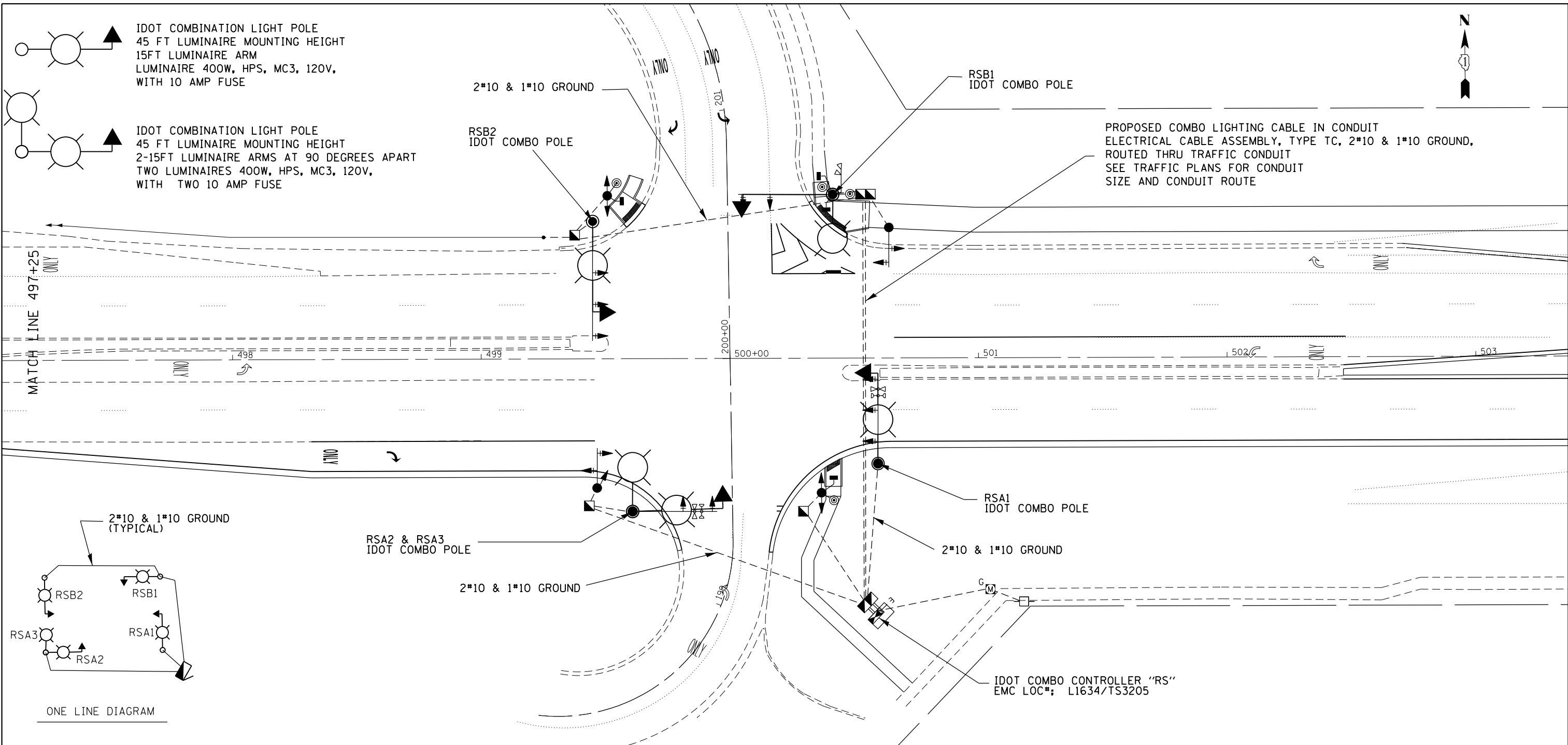
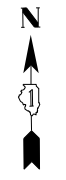
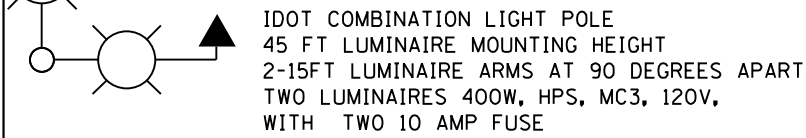
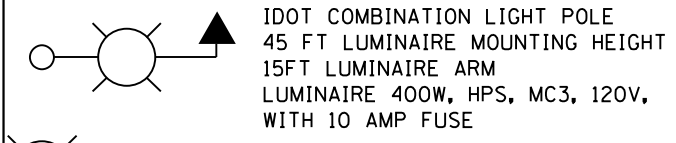
FILE NAME =	USER NAME = godinhot	DESIGNED - TG	REVISED -	<p align="center"><b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b></p> <p align="center">PROPOSED LIGHTING PLAN IL ROUTE 68 (DUNDEE ROAD) AT WILKE RD.</p>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\PI24912\Drawings\Electrical\4912-light.dgn		DRAWN - TG	REVISED -		343	(531-4HBK&3041-15D-2-RW)	COOK	69	52D
Default		CHECKED -	REVISED -		CONTRACT NO. 60V01				
		DATE - 9/29/2015	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.



NOTES

- 1.0 ARLINGTON HEIGHTS LIGHT POLES SHALL NOT BE CONNECTED TO THE IDOT COMBO POLES.
- 2.0 ARLINGTON HEIGHTS LIGHTING CONTROLLER IS LOCATED IN THE SOUTHWEST CORNER OF SHURE RD. AND KENNICOTT AVE. CONTROLLER IS 120/240 VOLT. LUMINAIRES OPERATING VOLTAGE IS 240 V (LINE TO LINE).

FILE NAME =	USER NAME = godinhot	DESIGNED -	IG	REVISED -		<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED LIGHTING PLAN IL ROUTE 68 (DUNDEE ROAD) AT KENNICOTT AVENUE</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\PI249\PI249\Meta\Electrical\PI249-12-light.dgn	DRAWN -	IG	REVISED -		343				531-4HBK&3041-150-2-RW	COOK	69	52E	
Default	PLOT SCALE = 100.0000' / in.	CHECKED -		REVISED -			CONTRACT NO. 60V01			ILLINOIS FED. AID PROJECT			
	PLOT DATE = 9/29/2015	DATE -	9/29/2015	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.



ONE LINE DIAGRAM

**NOTES**

- 1.0 THE IDOT COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE VILALGE LIGHTING CIRCUITS.
- 2.0 LUMINAIRES POWERED FROM IDOT TRAFFIC CONTROLLER. SEE DETAIL BE-240
- 3.0 THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
- 4.0 SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HANDHOLES AND CONDUIT.

IDOT COMBO LIGHTING SCHEDULE OF QUANTITIES		
DESCRIPTION	UNIT	QUANTITY
LUMINAIRE SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	5
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	5
ELECTRICAL CABLE ASSEMBLY IN CONDUIT, 600 V , (XLP TYPE TC) 2/C NO.2 AND 1/C NO TO GROUND	FOOT	550

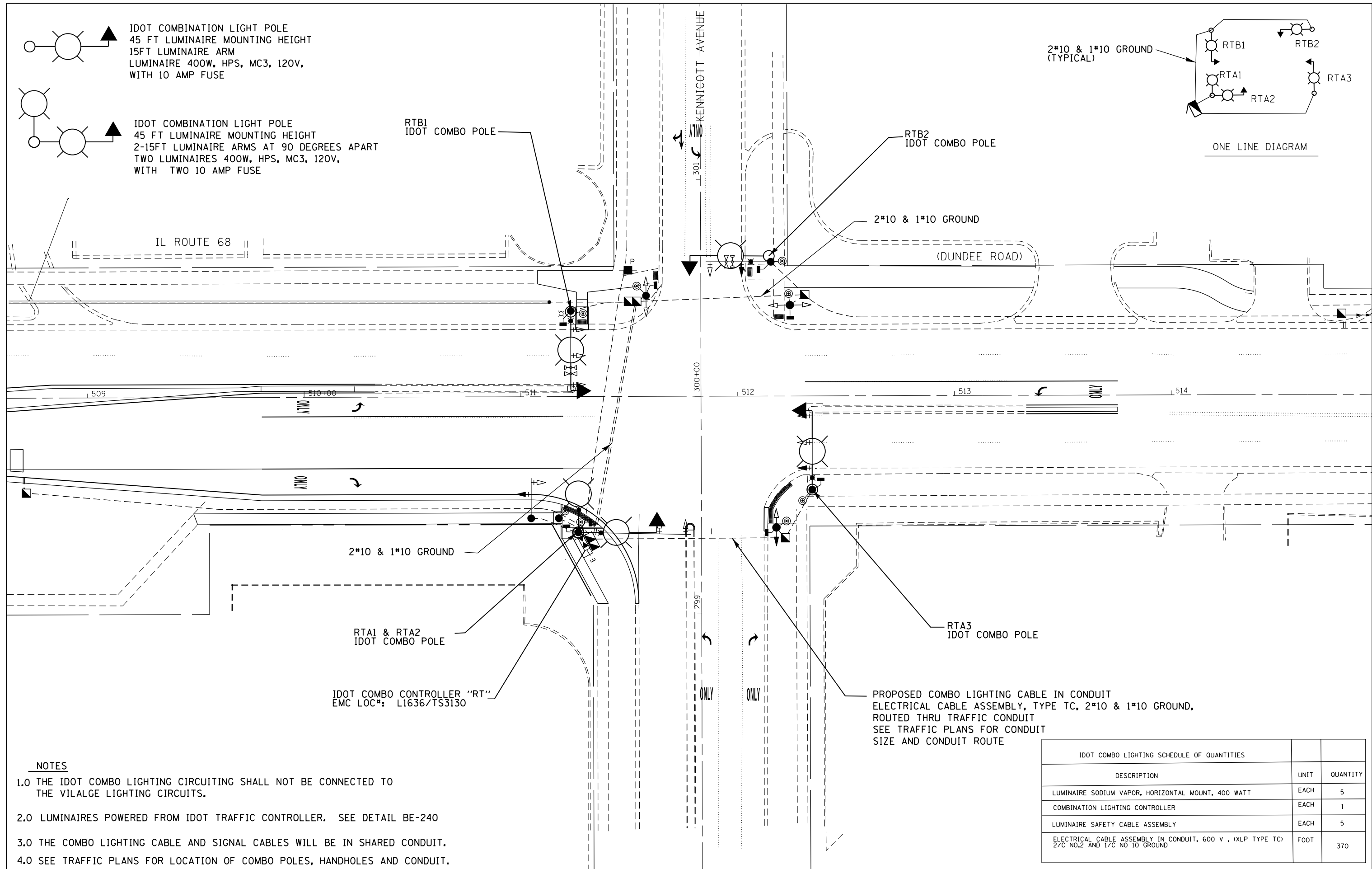
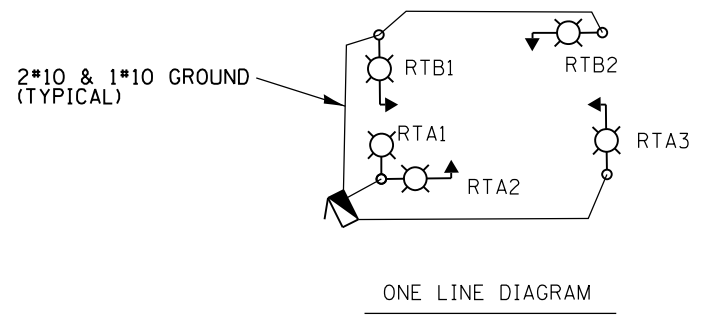
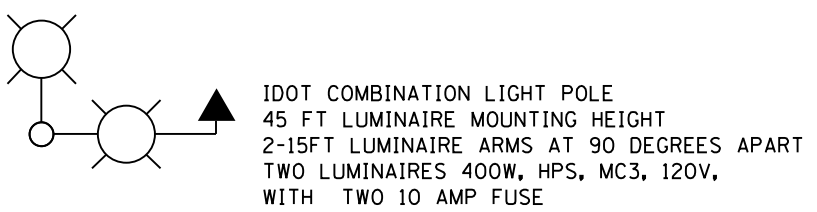
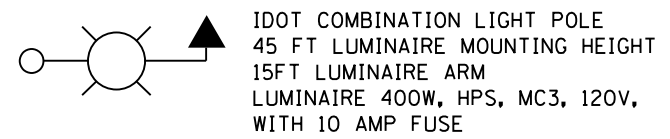
FILE NAME =	USER NAME = godinhot	DESIGNED - TG	REVISED -
pw:\IL\084EBIDINTEG\illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\P124912\Drawings\Electrical\0124912-light.dgn		DRAWN - TG	REVISED -
	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 9/22/2015	DATE - 9/9/2015	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IDOT PROPOSED LIGHTING COMBINATION POLE PLAN  
IL ROUTE 68 (DUNDEE ROAD) AT WILKE RD.**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343A	(531-4HBK&3041-15D-2-R/R)	COOK	69	52F
CONTRACT NO.			60V01	
ILLINOIS FED. AID PROJECT				



**NOTES**

- 1.0 THE IDOT COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE VILALGE LIGHTING CIRCUITS.
- 2.0 LUMINAIRE POWERED FROM IDOT TRAFFIC CONTROLLER. SEE DETAIL BE-240
- 3.0 THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
- 4.0 SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HANDHOLES AND CONDUIT.

PROPOSED COMBO LIGHTING CABLE IN CONDUIT  
ELECTRICAL CABLE ASSEMBLY, TYPE TC, 2\*10 & 1\*10 GROUND,  
ROUTED THRU TRAFFIC CONDUIT  
SEE TRAFFIC PLANS FOR CONDUIT  
SIZE AND CONDUIT ROUTE

IDOT COMBO LIGHTING SCHEDULE OF QUANTITIES		
DESCRIPTION	UNIT	QUANTITY
LUMINAIRE SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	5
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	5
ELECTRICAL CABLE ASSEMBLY IN CONDUIT, 600 V . (XLP TYPE TC) 2/C NO.2 AND 1/C NO 10 GROUND	FOOT	370

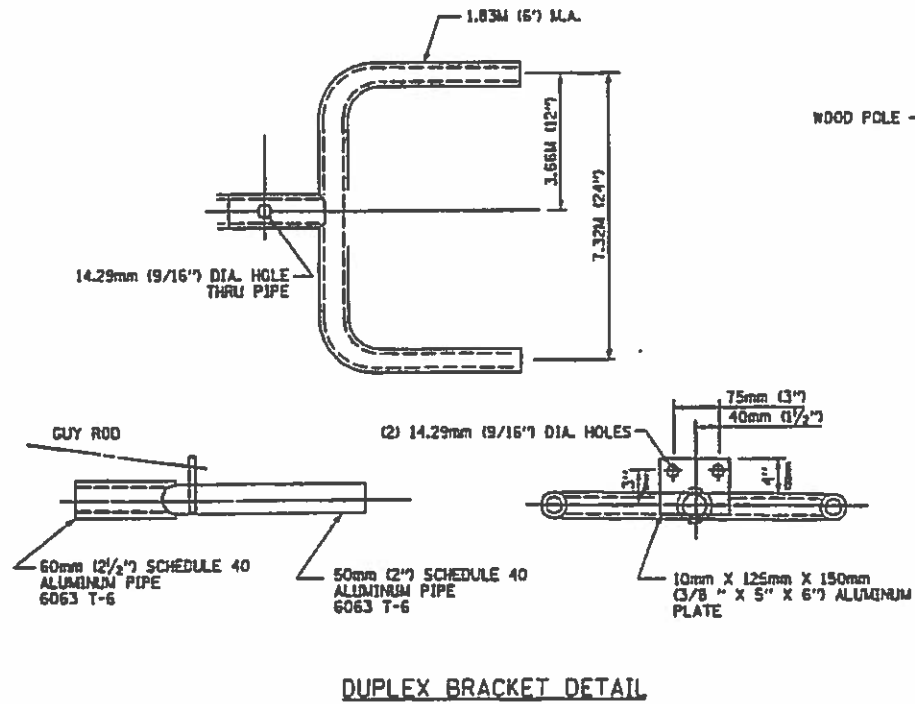
FILE NAME =	USER NAME = godinhoh	DESIGNED - TC	REVISED -
pw\ill084EBIDINTEG\illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\PI24912\Meta\Elect\TC\PI24912-light.dgn		DRAWN - TC	REVISED -
PLOT SCALE = 40.0000' / in.		CHECKED -	REVISED -
Default		DATE - 9/29/2015	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

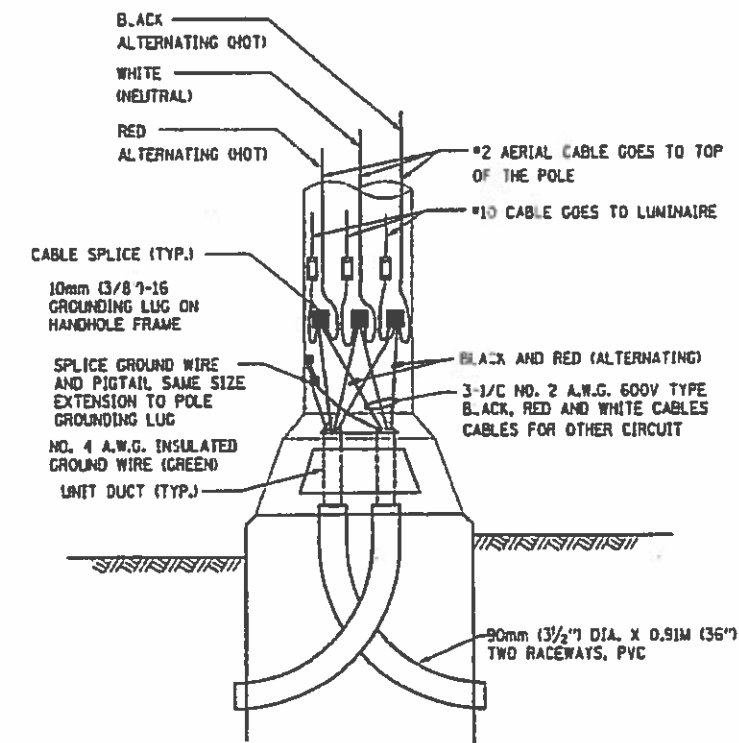
**IDOT PROPOSED LIGHTING COMBINATION POLE PLAN  
IL ROUTE 68 (DUNDEE ROAD) AT KENNICOTT AVENUE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE. 343	SECTION (531-4HBK&3041-150-2-RIN)	COUNTY COOK	TOTAL SHEETS 69	SHEET NO. 52C
CONTRACT NO. 60V01			ILLINOIS FED. AID PROJECT	

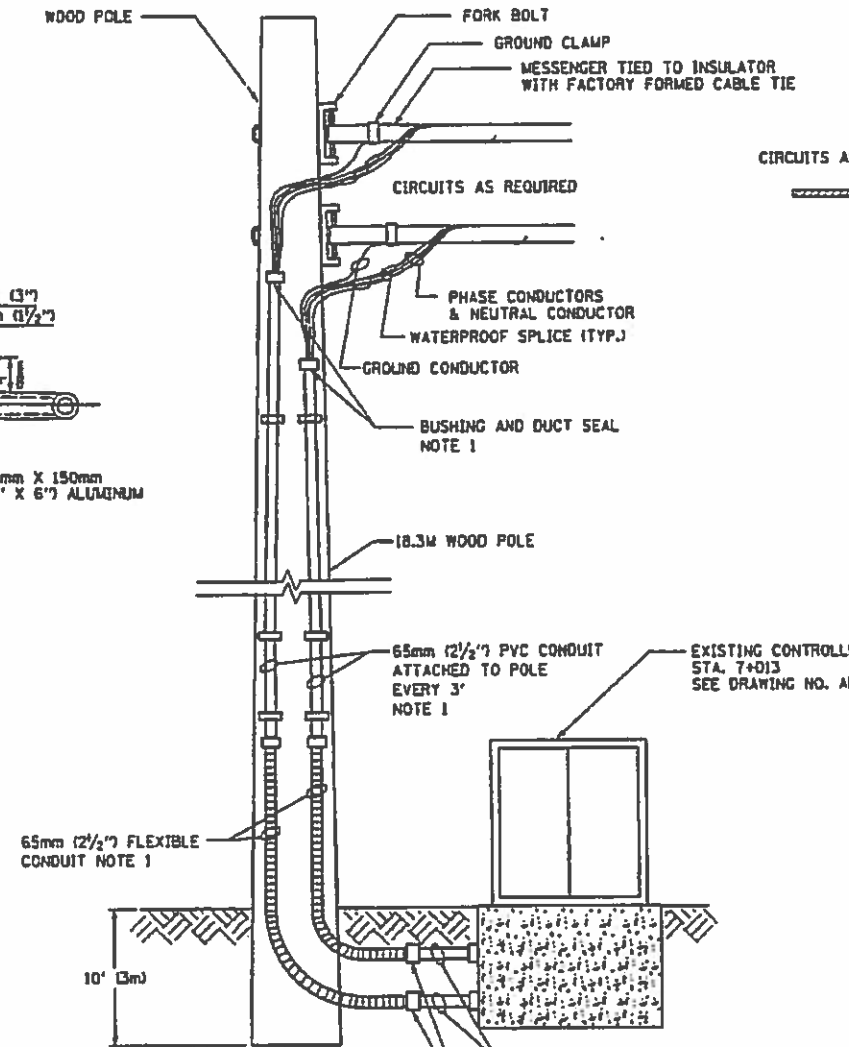


DUPLEX BRACKET DETAIL



ASSUME THAT REINFORCING STEEL IS ALL INTERCONNECTED VIA TIE WRAPPING OR OTHER SUITABLE MEANS AND CONNECTED TO THE ANCHOR BOLTS

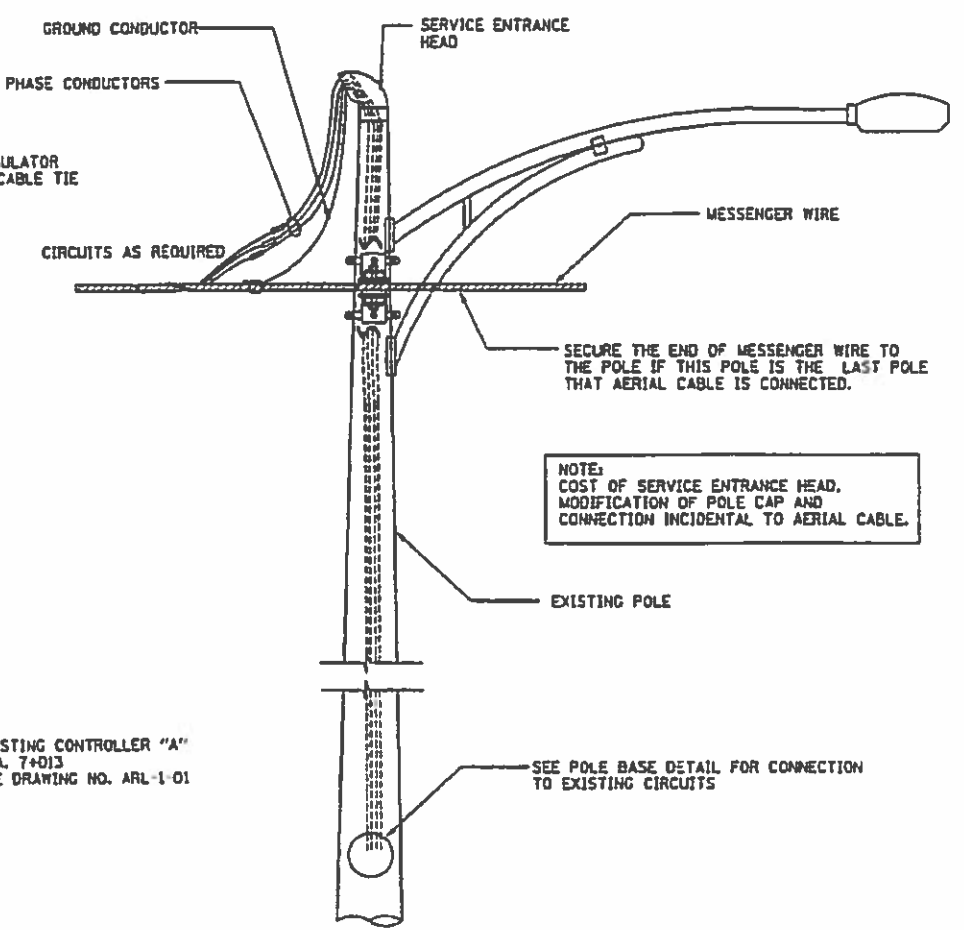
POLE BASE DETAIL



NOTE:  
1. ALL MATERIAL AND LABOR SHOWN IN THIS DETAIL SHALL BE INCLUDED IN THE COST OF TEMPORARY WOOD POLE PAY ITEM. NO SEPARATE PAYMENT WILL BE MADE.

CONTROL CABINET MODIFICATION DETAIL

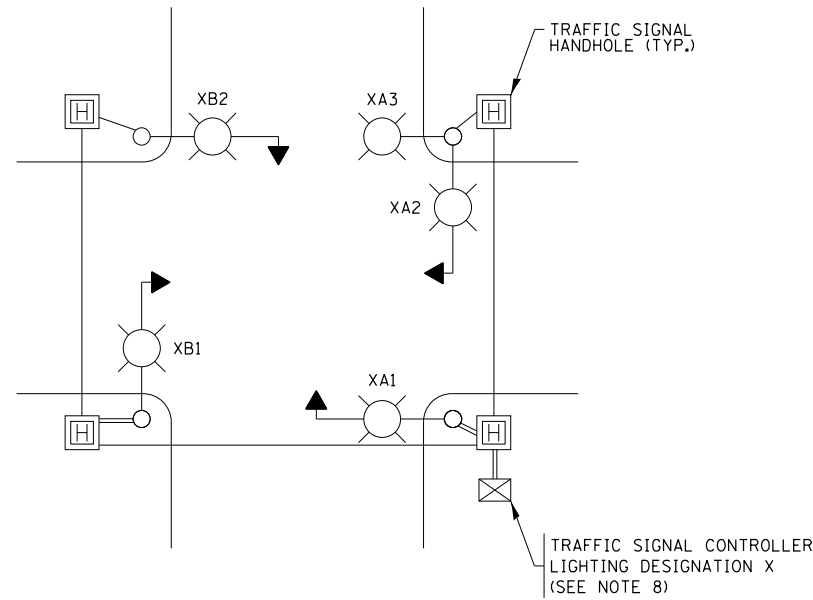
N.T.S.



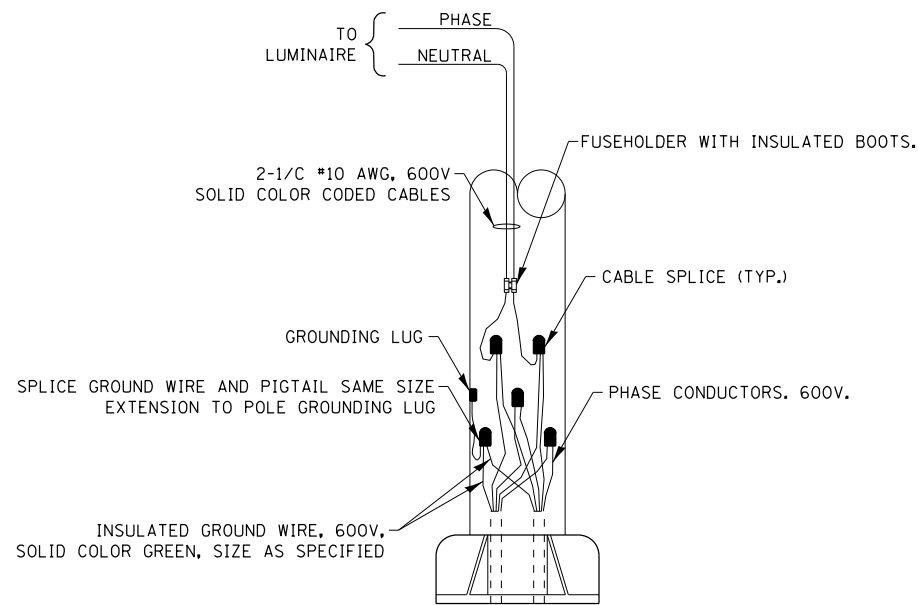
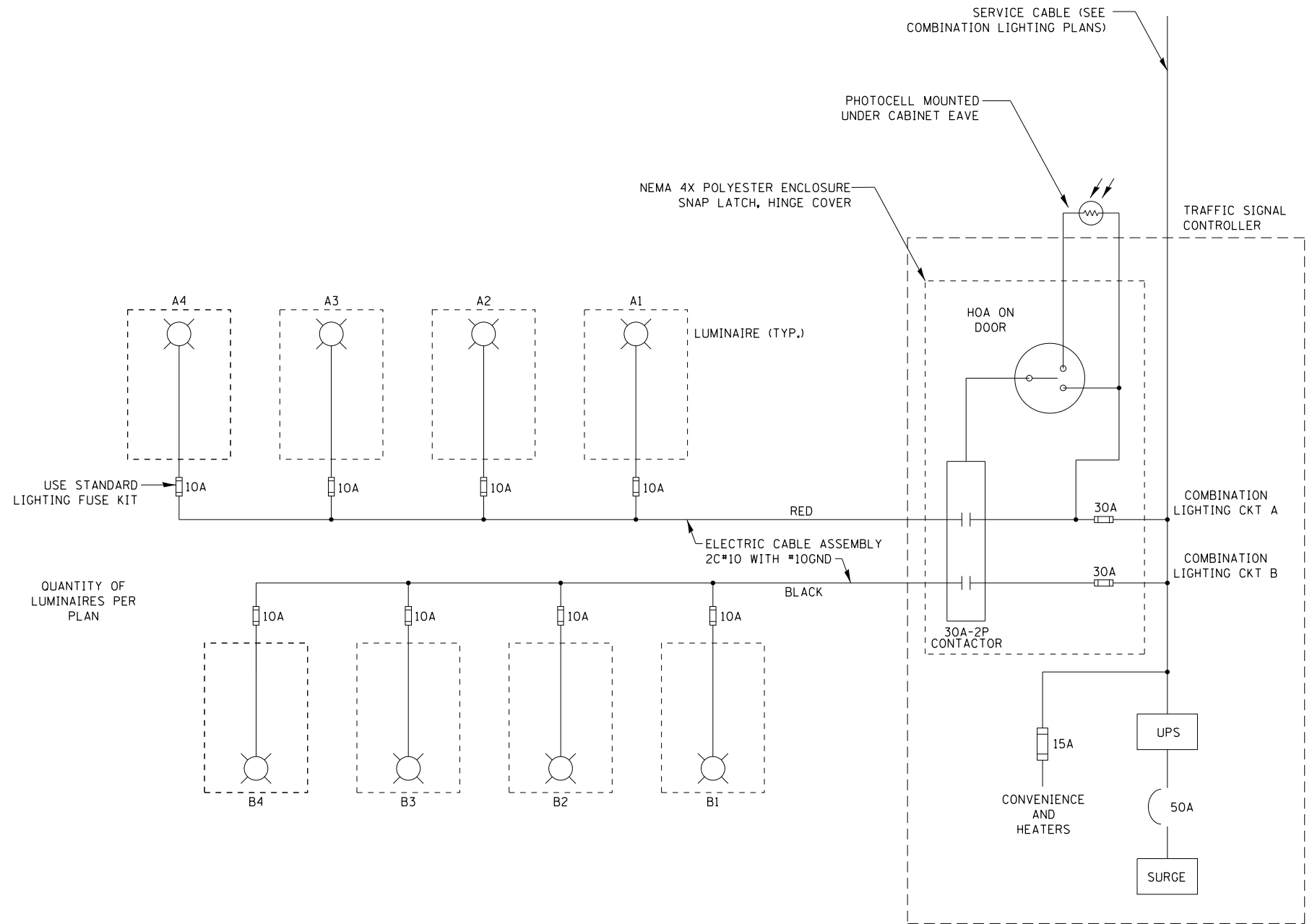
NOTE:  
COST OF SERVICE ENTRANCE HEAD, MODIFICATION OF POLE CAP AND CONNECTION INCIDENTAL TO AERIAL CABLE.

TEMPORARY AERIAL CABLE CONNECTION TO EXISTING POLE

FILE NAME =	USER NAME = gadinhart	DESIGNED = TG	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISCELLANEOUS TEMPORARY CABLE INSTALLATION DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct pw work p=dot gadinhart d0458272 P12	912 light.dgn	DRAWN = TG	REVISED =			343	(531-488&3041-150-2-RM)	COOK	69	52H	
Default	PLOT SCALE = 100.0000	CHECKED =	REVISED =			CONTRACT NO. 60V01					
	PLOT DATE = 9-22-2015	DATE = 9/9/2015	REVISED =			ILLINOIS FED. AID PROJECT					



**TYPICAL LIGHTING CIRCUIT DESIGNATIONS**  
(NOT TO SCALE)

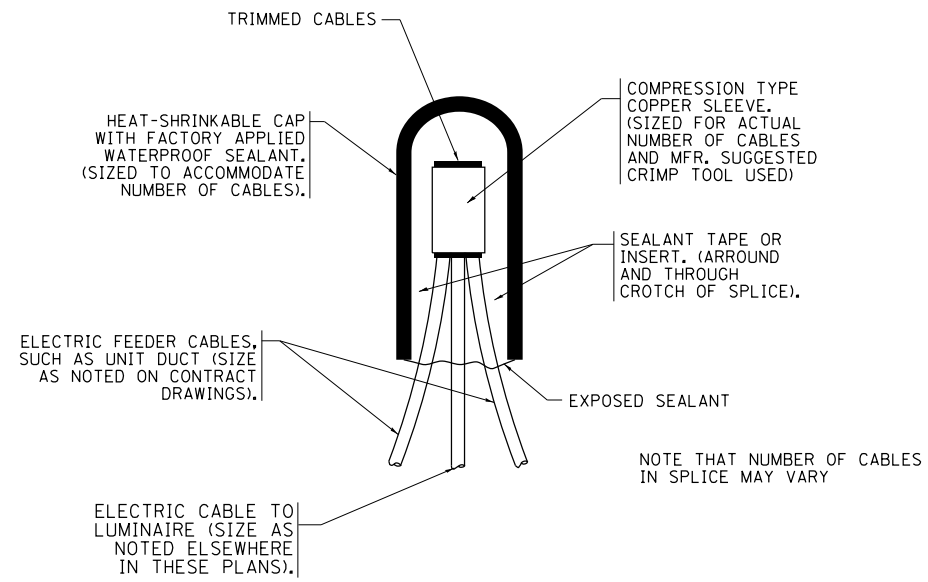


**COMBINATION POLE WIRING DETAIL**  
(NOT TO SCALE)

**NOTES:**

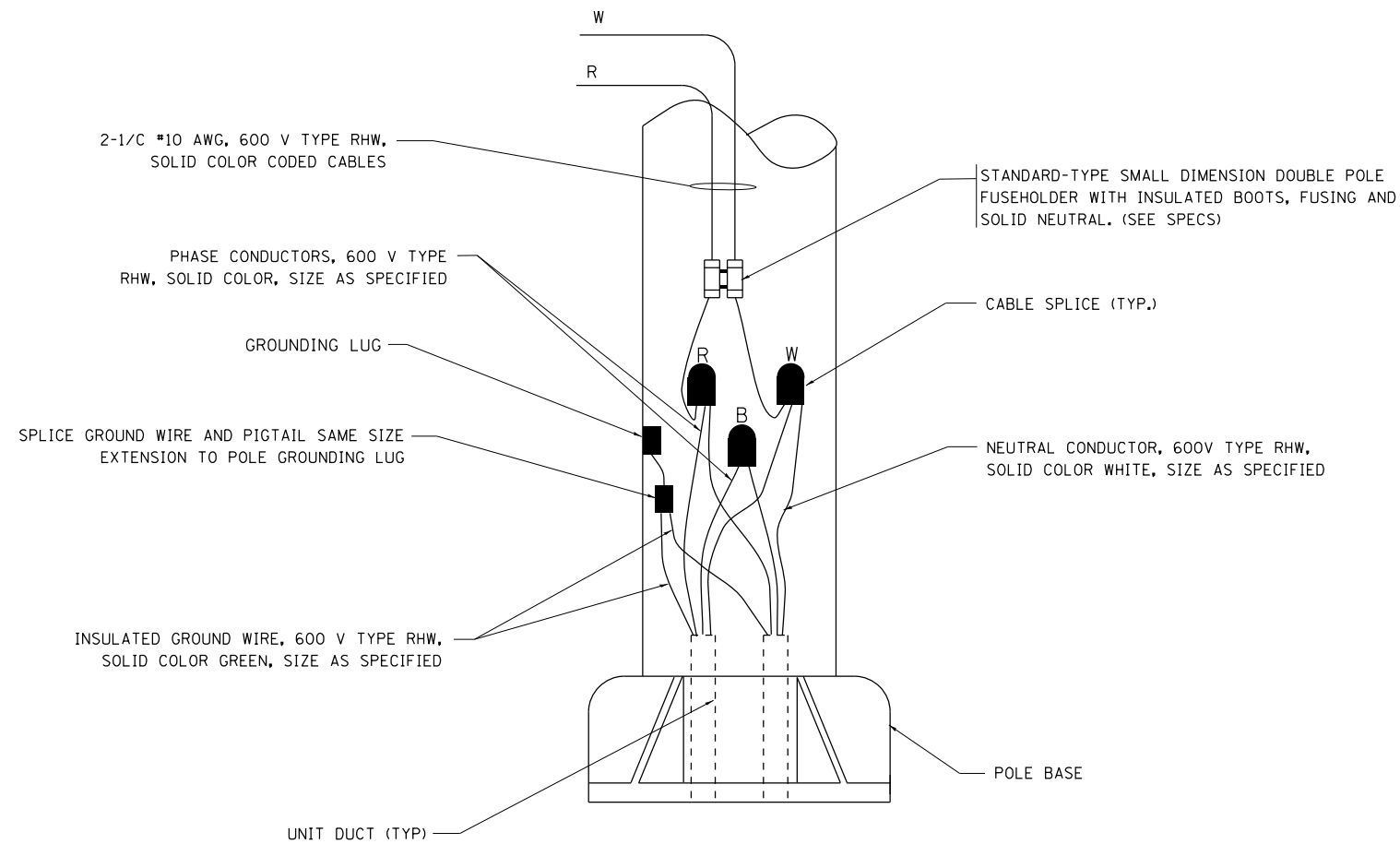
1. 4 LUMINAIRES PER CIRCUIT, MAXIMUM.
2. MULTI-CONDUCTOR CABLE ASSEMBLY FOR LIGHTING CIRCUITS.
3. ROUTE LIGHTING CIRCUITS IN TRAFFIC SIGNAL CONDUIT SYSTEM.
4. ALL SPLICES AND CONNECTIONS FOR ROADWAY LIGHTING SHALL BE AT POLE BASE ONLY.
5. ALL CONTROLLERS TO HAVE TWO FUSED LIGHTING BRANCH CIRCUITS.
6. ALL WIRING SHALL BE NEATLY DRESSED, IDENTIFIED BY TAGS, AND SUPPORTED. (UNDERGROUND SPLICING OF LIGHTING CONDUCTORS IS NOT PERMITTED).
7. LIGHTING CONTROLLER DESIGNATION SHALL BE CONFIRMED WITH THE ENGINEER.
8. RECORD DRAWING SHALL INCLUDE:
  - TRAFFIC SIGNAL PLAN SHEET(S)
  - TRAFFIC SIGNAL CABLE PLAN SHEET(S)
  - LIGHTING PLANS
  - THIS DETAIL
9. THE H.O.A. SWITCH SHALL BE LABELED AS "LIGHTING CONTROL" WITH THE POSITIONS "AUTO", "OFF" AND "TEST" WITH ENGRAVED NAME PLATES.

FILE NAME = DistStd.dgn	USER NAME = guillaumejp	DESIGNED - RT	REVISED - 02/10/2015	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>COMBINATION LIGHTING, TRAFFIC SIGNAL SCHEMATIC</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
Default	PLOT SCALE = 100.0000' / in.	CHECKED - RT	REVISED -		SCALE: NTS	SHEET 1	OF 1	SHEETS	STA.	TO STA.	343	531-4HBK&3041-15D-2-RIN	COOK	69	521
	PLOT DATE = 9/28/2015	DATE - 08/18/2014	REVISED -					<b>BE-240</b>		<b>CONTRACT NO. 60V01</b>					



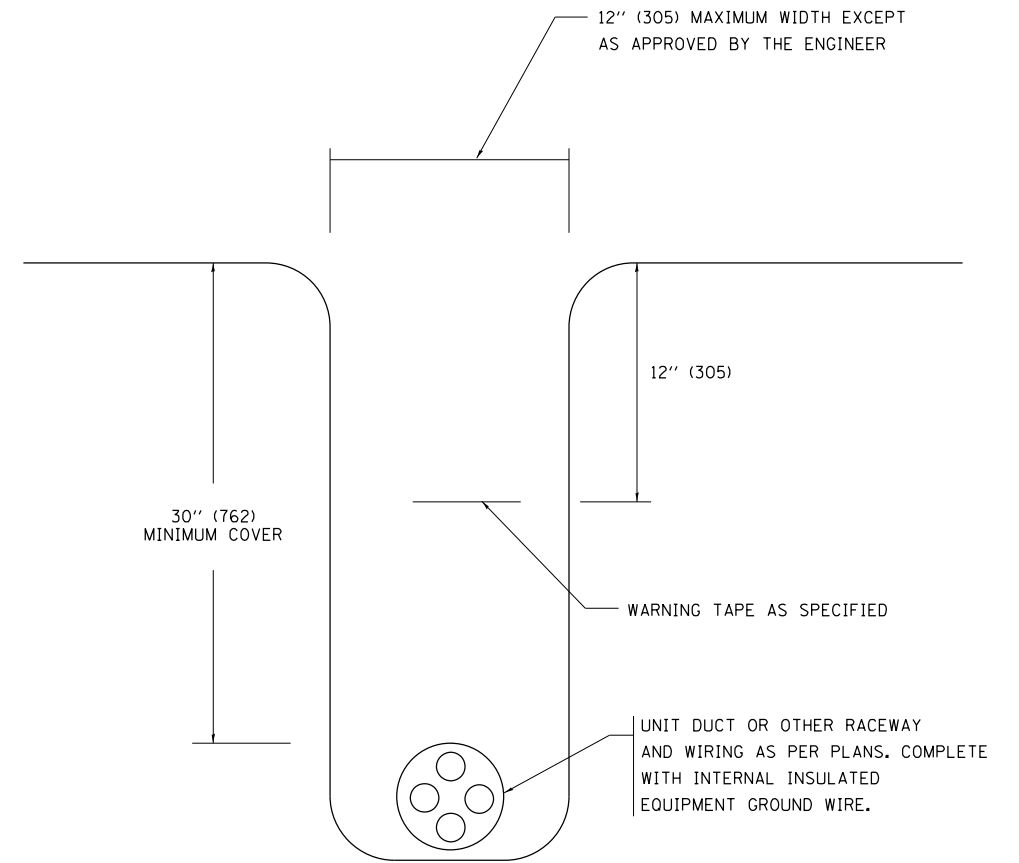
**TYPICAL SPLICE DETAIL**

N.T.S.



**POLE WIRING DETAIL**

N.T.S.

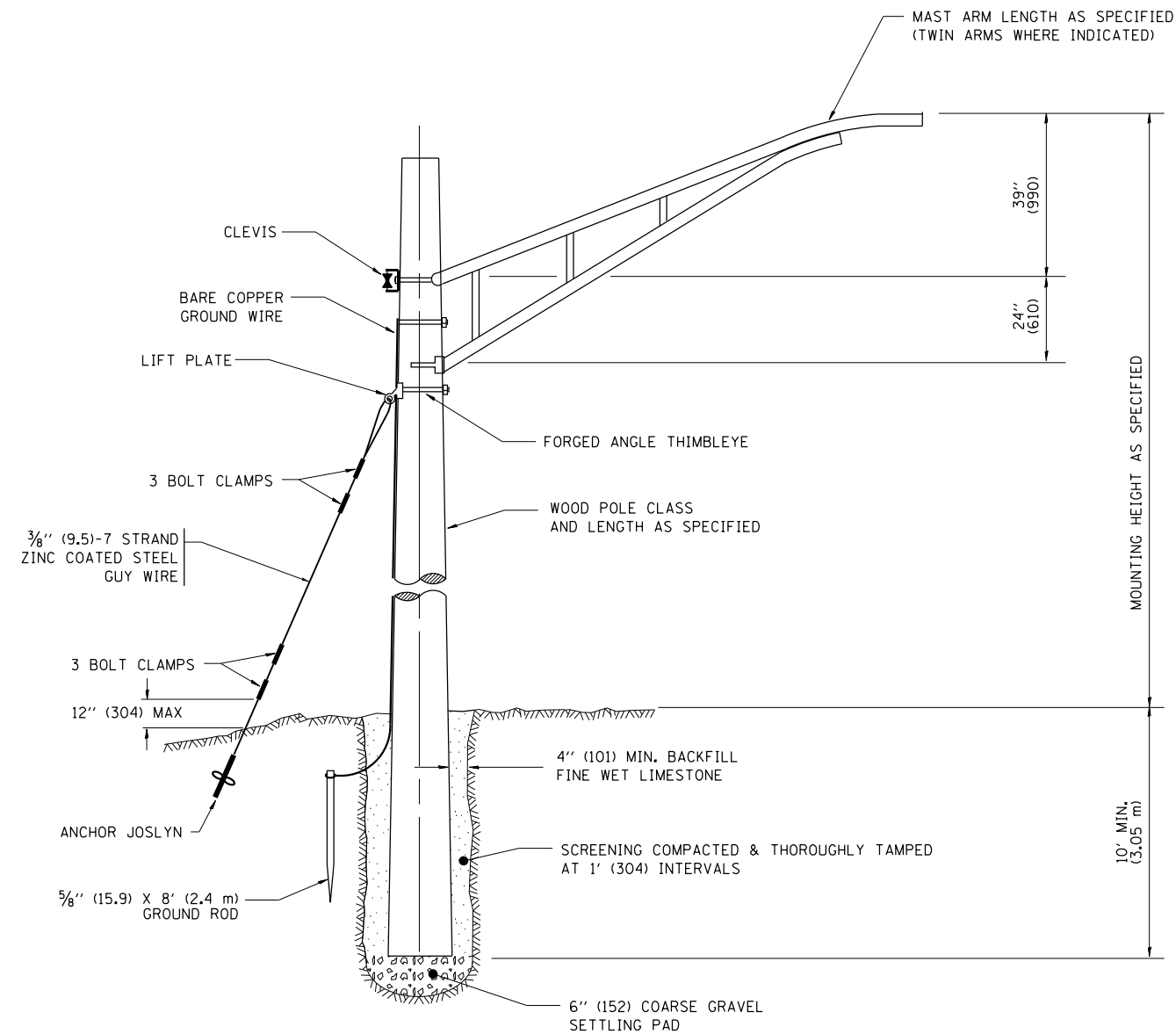


**TYPICAL WIRING IN TRENCH DETAIL**

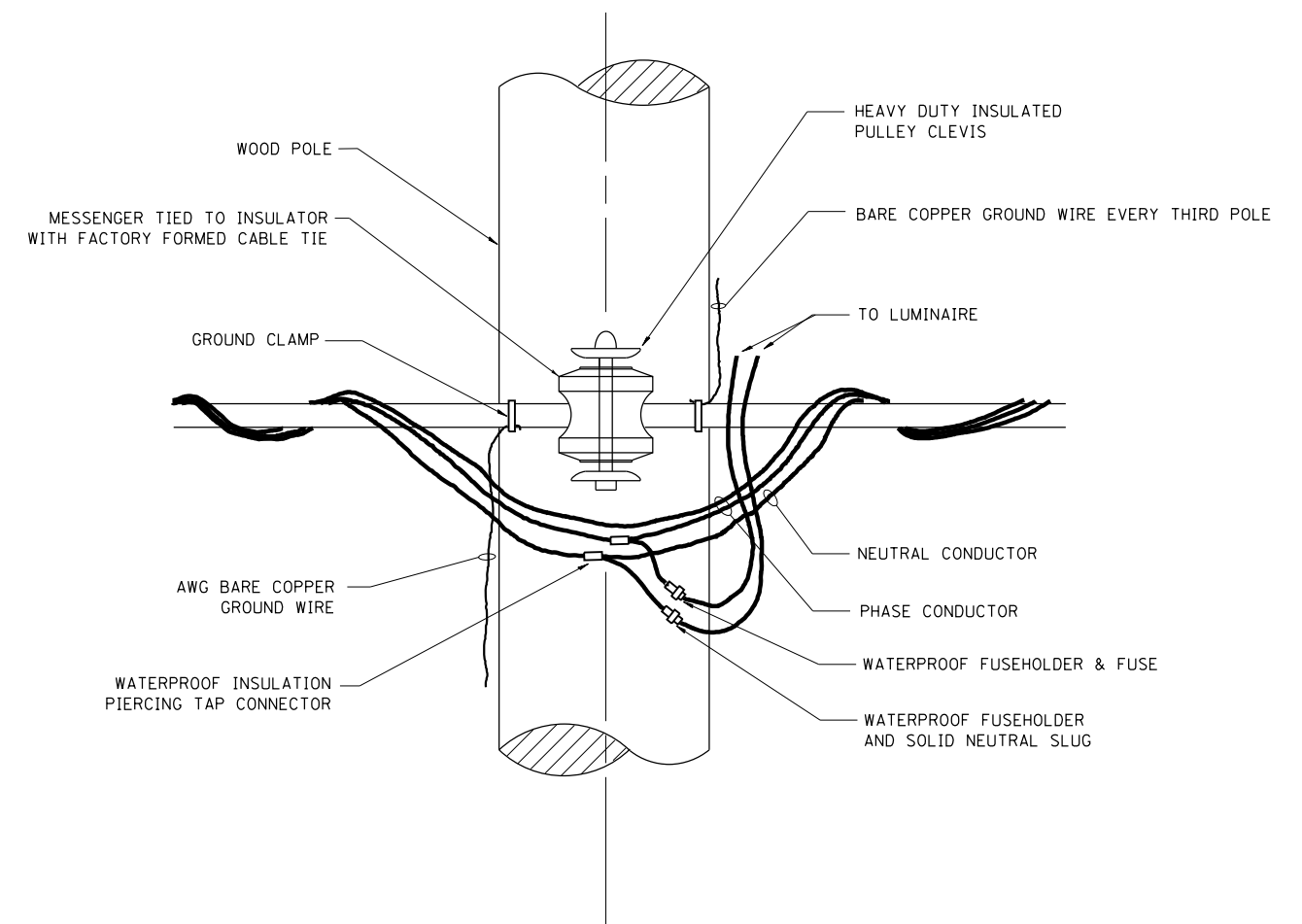
N.T.S.

FILE NAME =	USER NAME = guillaumejp	DESIGNED -	REVISED - 08-08-03	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>MISC. ELECTRICAL DETAILS SHEET A</b>			F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\PI249\PI249\Design\DistStd.dgn		CHECKED -	REVISED -		343	(531-4HBK&3041-15D-2-RIN	COOK	69	52J			
PLOT SCALE = 100.0000' / in.		DATE -	REVISED -		<b>BE-702</b>			<b>CONTRACT NO. 60V01</b>				
PLOT DATE = 9/28/2015					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT			





TEMPORARY LIGHT POLE DETAIL

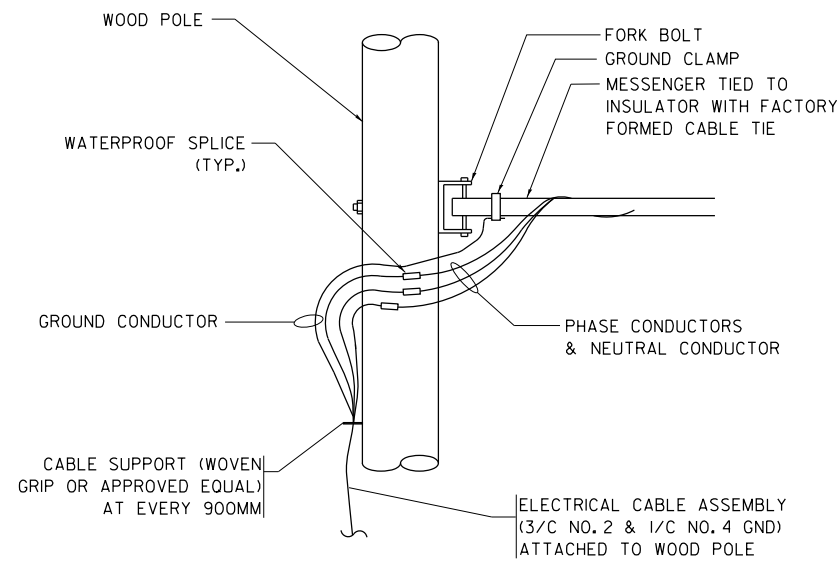


TEMPORARY LIGHT POLE ATTACHMENT DETAIL

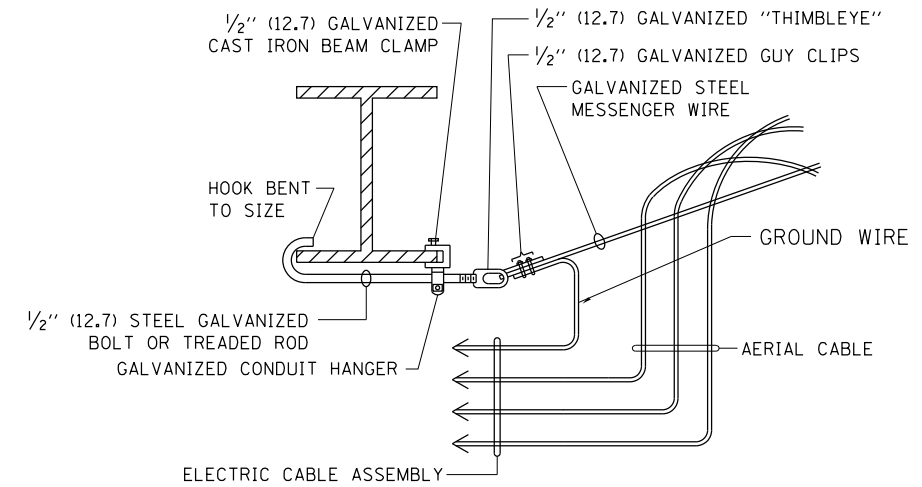
**NOTES:**

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED

FILE NAME =	USER NAME = guillaumejp	DESIGNED -	REVISED - 08-08-03	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY LIGHT POLE DETAILS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI249\Drawings\Design\DistStd.dgn		CHECKED -	REVISED -					343	531-4HBK&3041-15D-2-RIN	COOK	69	52K
PLOT SCALE = 100.0000' / 1in.		DATE -	REVISED -		<b>BE-800</b>			<b>CONTRACT NO. 60V01</b>				
PLOT DATE = 9/28/2015					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT		



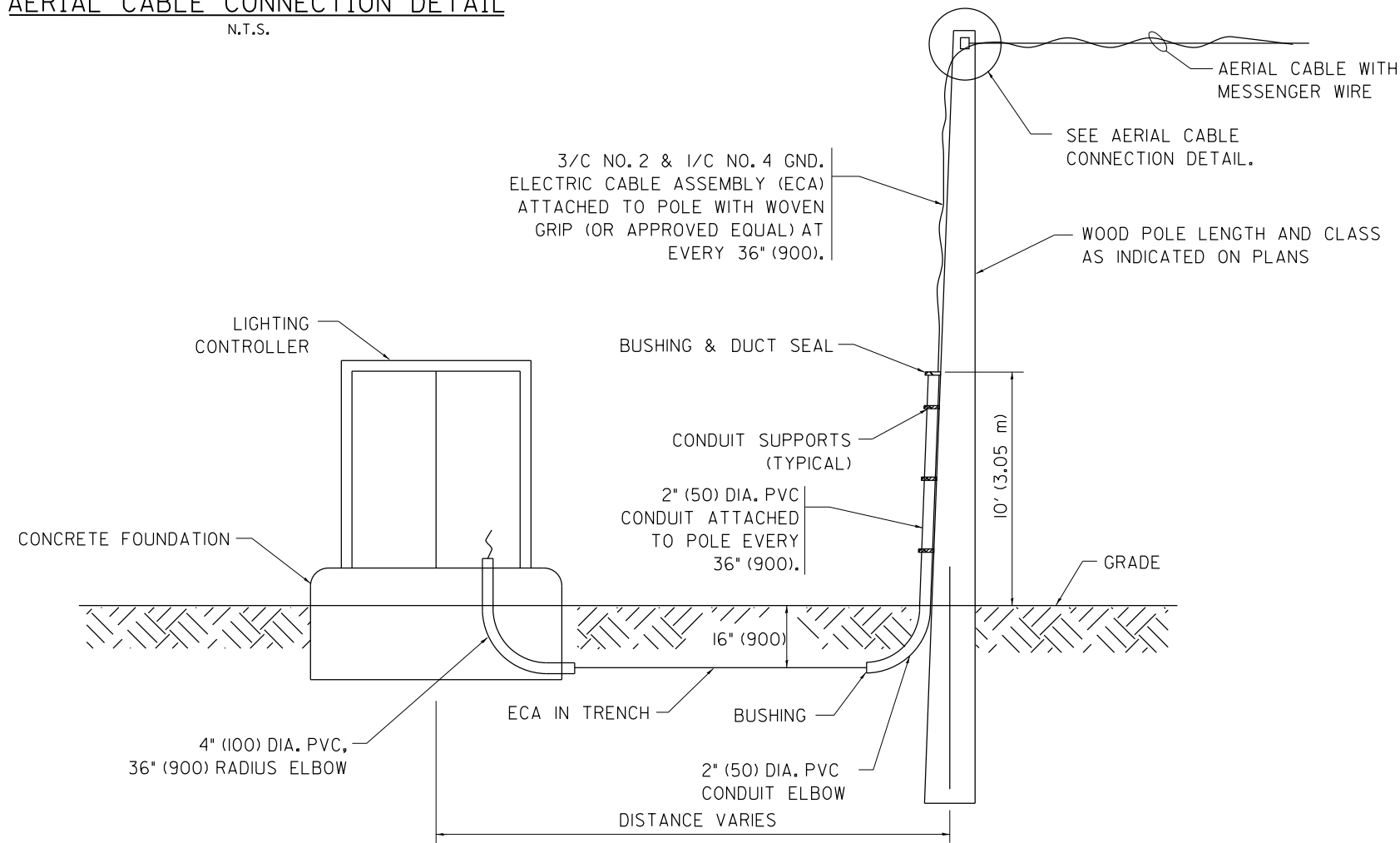
**AERIAL CABLE CONNECTION DETAIL**  
N.T.S.



**AERIAL CABLE ATTACHED TO STRUCTURE**  
NOT TO SCALE

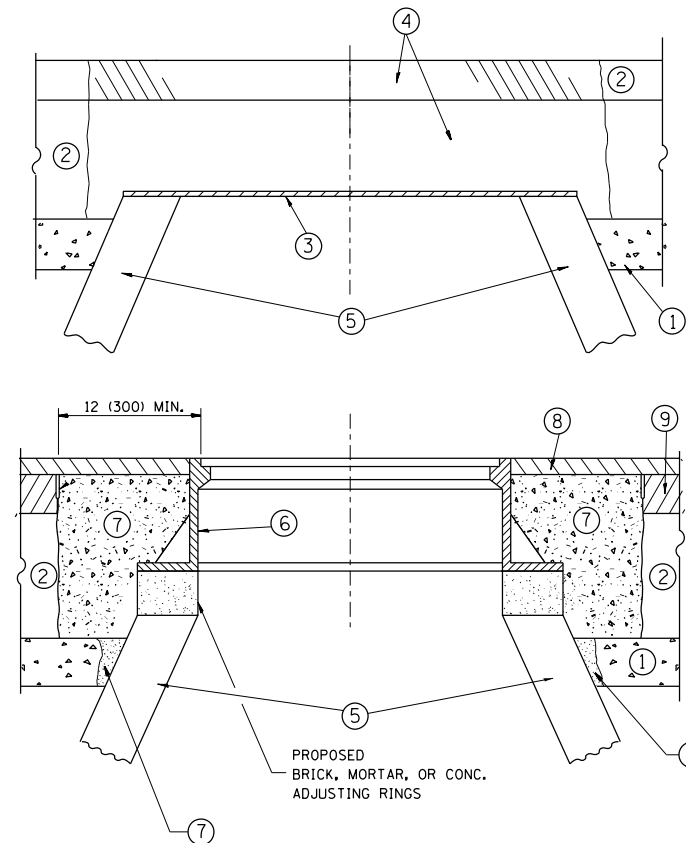
**NOTES:**

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



**WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL**  
N.T.S.

FILE NAME =	USER NAME = guillaumefp	DESIGNED -	REVISED - 08-08-03	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY AERIAL CABLE INSTALLATION</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI249\Drawings\Design\DistStd.dgn		CHECKED -	REVISED -		343	531-4HBK&3041-15D-2-RIN	COOK	69	52L			
PLOT SCALE = 100.0000' / in.		DATE -	REVISED -		<b>BE-801</b>			<b>CONTRACT NO. 60V01</b>				
PLOT DATE = 9/28/2015					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT		



**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

**STAGE 2 (AFTER PAVEMENT MILLING)**

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1\* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

\* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

**LEGEND**

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1\* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

**LOCATION OF STRUCTURES:**

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

**BASIS OF PAYMENT:**

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

**NOTES:**

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

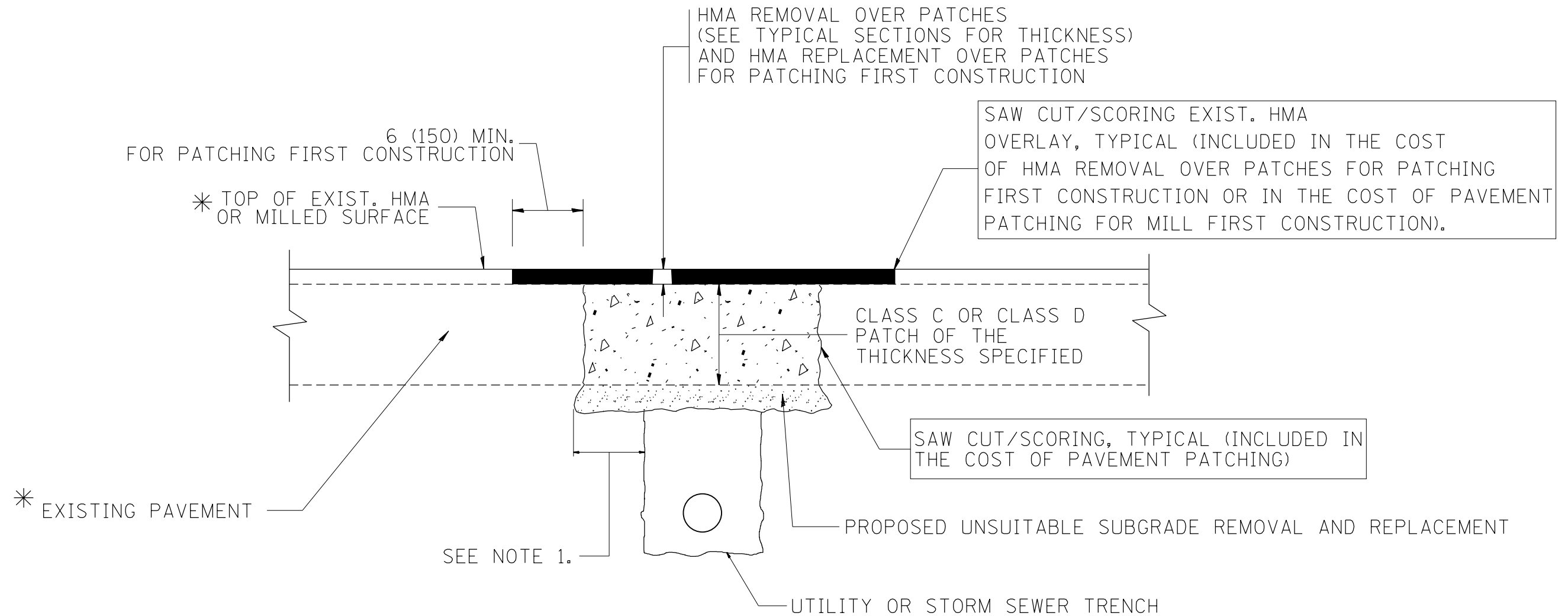
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = guillaumefp	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
pw\1\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\PI24912\Drawings\Design\PI24912-design.dgn			REVISED - R. BORO 01-01-07
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 7/14/2015	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING</b>			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK&3041-15D-2-RIN	COOK	69	53
<b>BD600-03 (BD-8)</b>			<b>CONTRACT NO. 60V01</b>	
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT				



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

**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 (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME =	USER NAME = guilleumfp	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\PI24912\Drawings\Design\PI24912-design.dgn		REVISED - R. BORO 01-01-07	REVISED - R. BORO 09-04-07					343	(531-4HBK&3041-15D-2-RIN	COOK	69	54
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - R. BORO 09-04-07	REVISED - K. ENG 10-27-08		BD400-04 (BD-22)			CONTRACT NO. 60V01				
PLOT DATE = 7/14/2015	DATE - 10-25-94	REVISED - K. ENG 10-27-08	SCALE: NONE		SHEET NO. 1	OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT		

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001  
EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

18" (450) MAX.

1/4" (5) \*\*

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

- \* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- \*\* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

- ② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED
- ③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- ⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- ⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

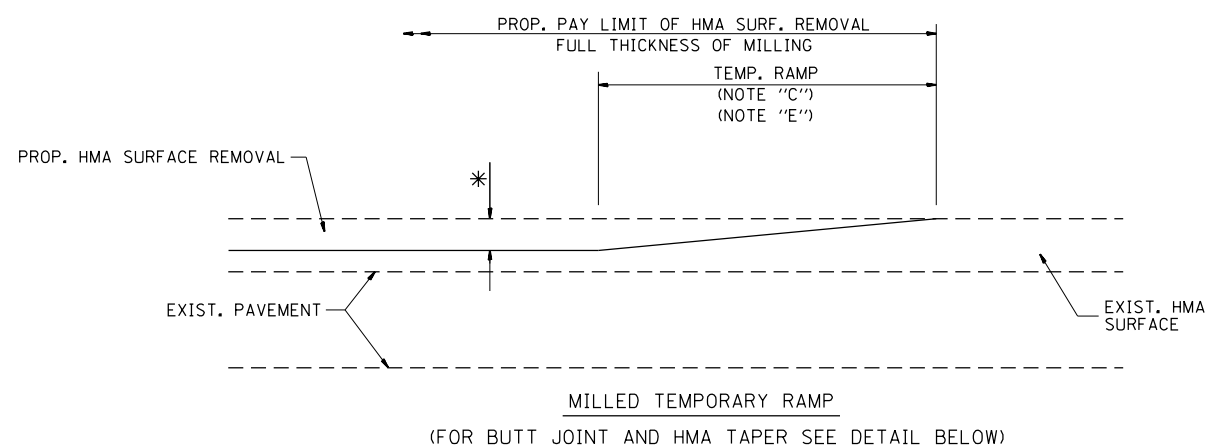
PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:  
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

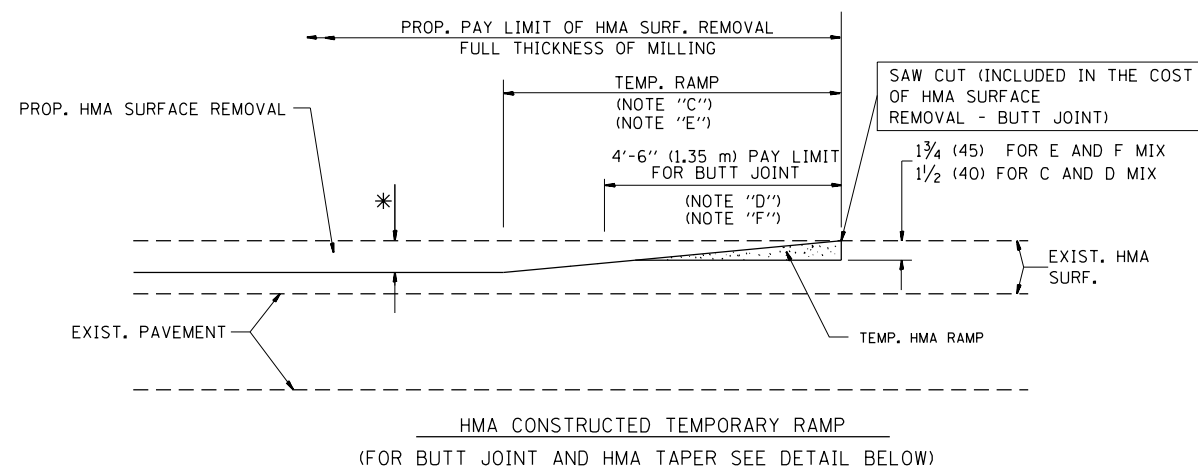
# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = guillaumejp	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBID\INTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\PI24912\Design\PI24912-design.dgn		REVISION	REVISED - A. ABBAS 03-21-97			343	(531-4HBK&3041-15D-2-R/N)	COOK	69	55
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - M. GOMEZ 01-22-01				<b>BD600-06 (BD-24)</b>		<b>CONTRACT NO. 60V01</b>		
PLOT DATE = 7/14/2015	DATE - 03-11-94	REVISED - R. BORO 12-15-09	SCALE: NONE			SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT

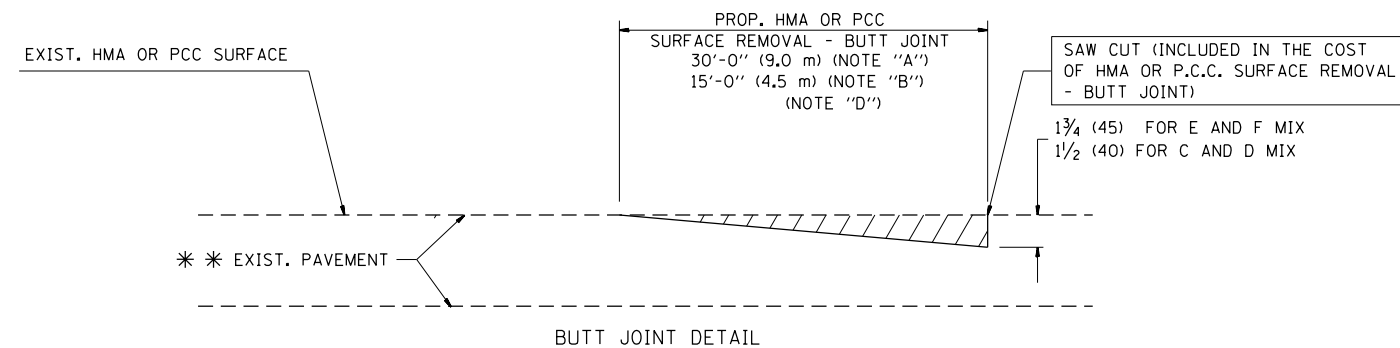


**OPTION 1**

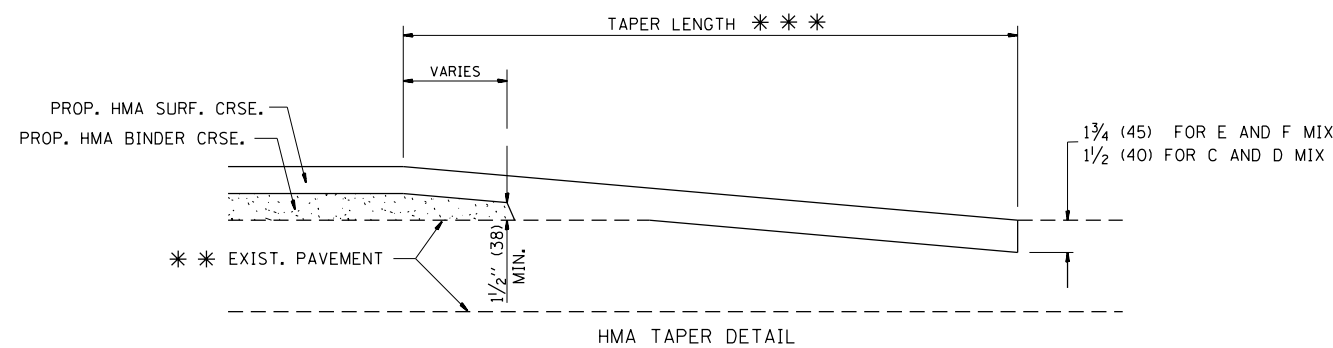


**OPTION 2**

**TYPICAL TEMPORARY RAMP**



**BUTT JOINT DETAIL**



**HMA TAPER DETAIL**

**TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY**

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

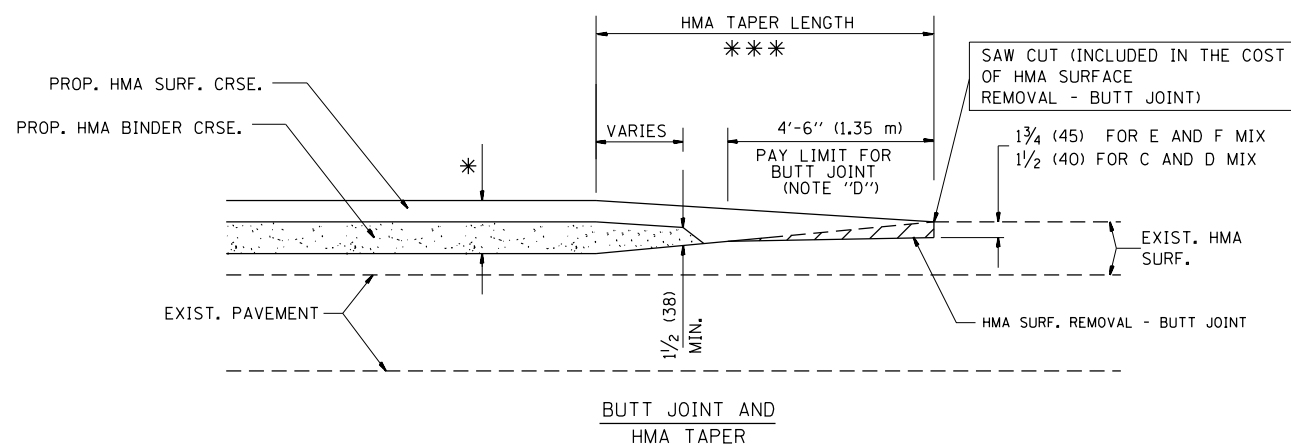
**NOTES**

- 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")

**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".

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



**TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING**

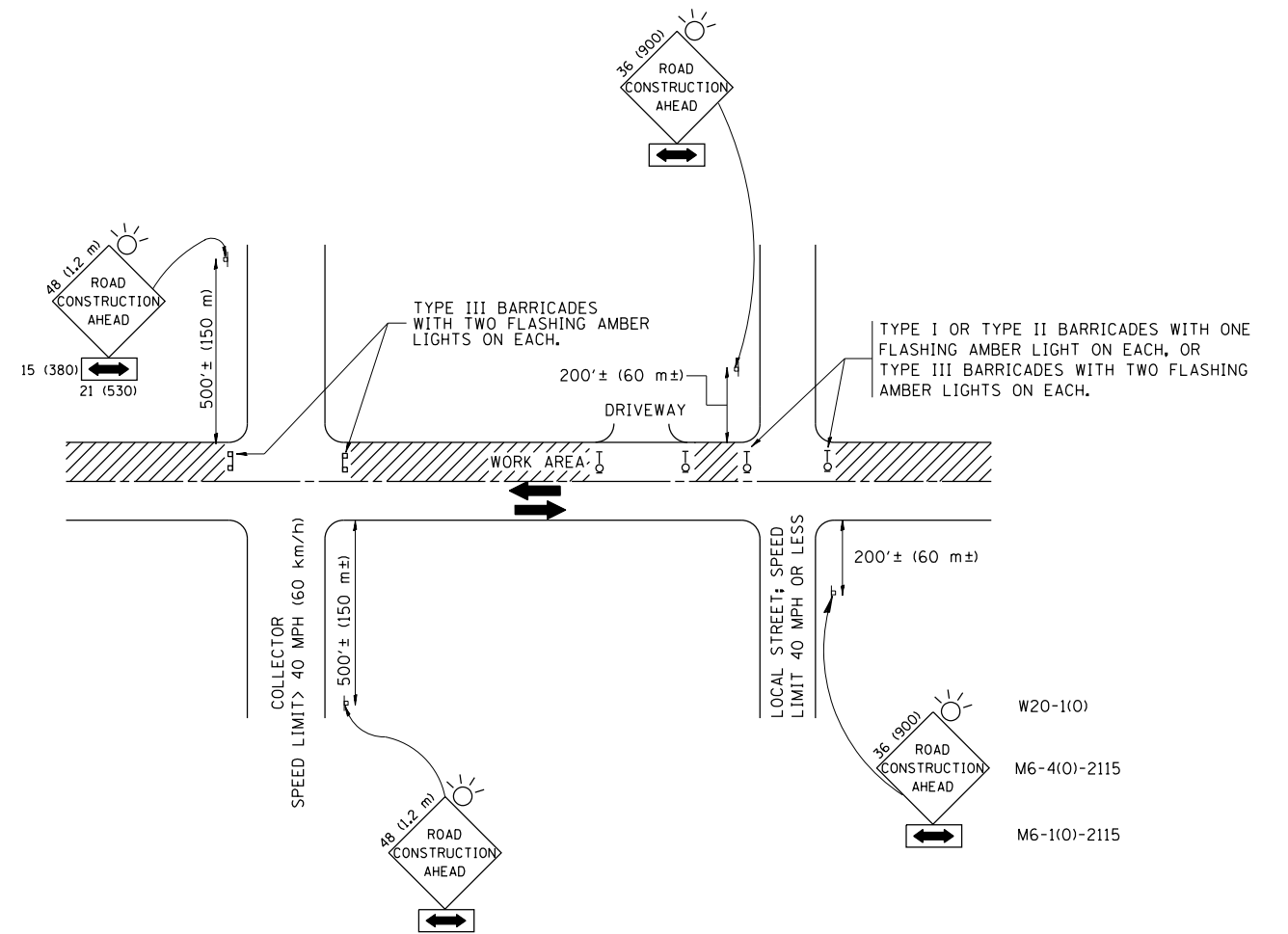
FILE NAME =	USER NAME = guillaumejp	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
p:\1\084EBID\INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\P1249\Drawings\Design\P124912-design.dgn			REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 7/14/2015	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND  
HMA TAPER DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK&3041-15D-2-RIN)	COOK	69	56
BD400-05 BD32			CONTRACT NO. 60V01	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

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

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

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

- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

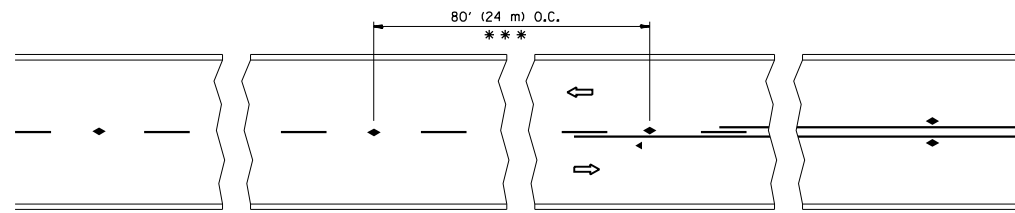
FILE NAME =	USER NAME = guillaumejp	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
p:\work\084EBID\INTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\P124912\Design\PI24912-design.dgn			REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 7/14/2015	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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

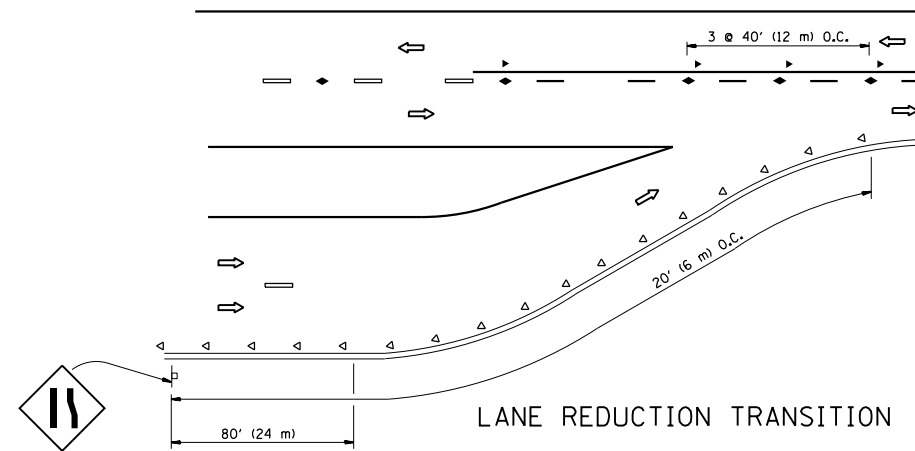
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK&3041-15D-2-RIN	COOK	69	57
TC-10			CONTRACT NO. 60V01	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

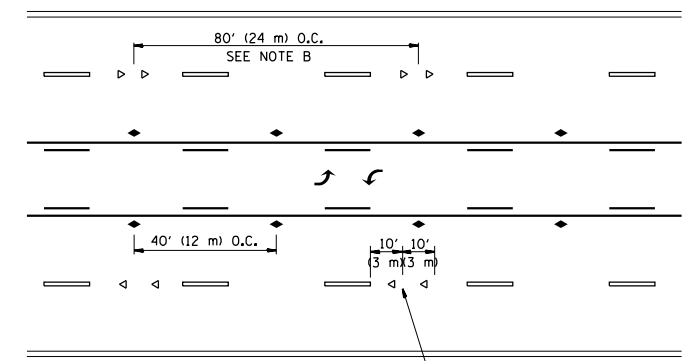


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

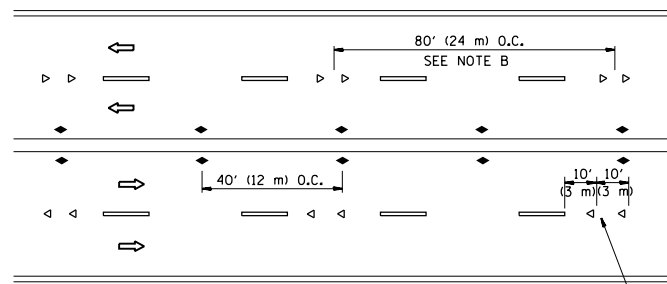
TWO-LANE/TWO-WAY



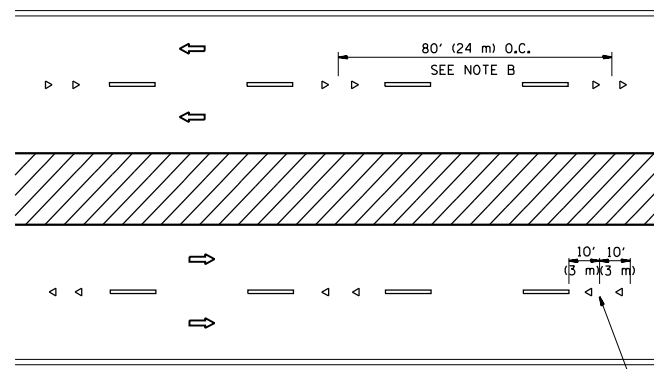
LANE REDUCTION TRANSITION



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

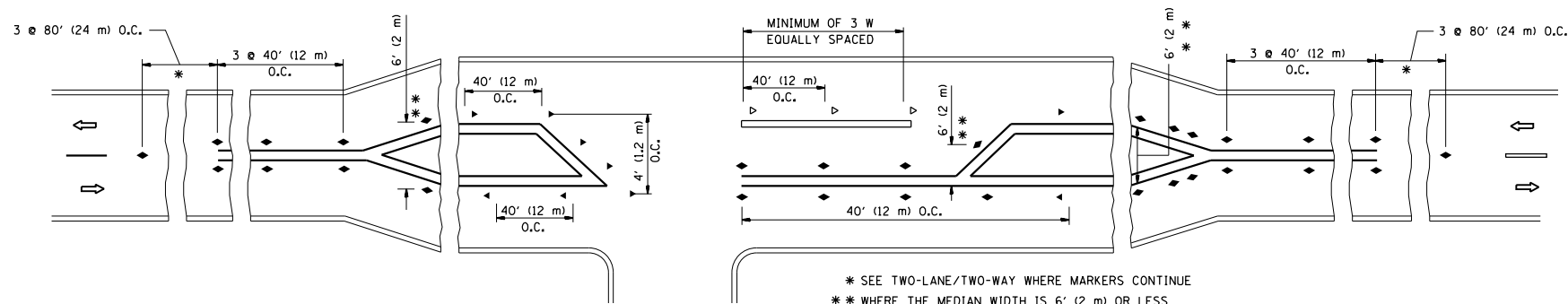
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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 SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

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

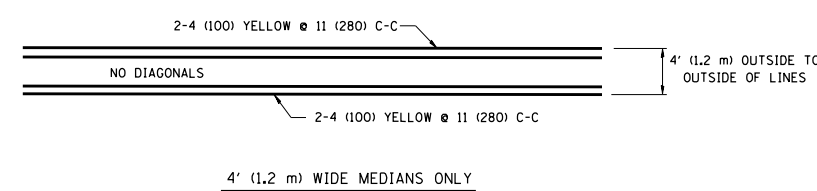
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = guillaumejp	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\P1249\Drawings\Design\P124912-design.dgn	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 03-12-99					343	(531-4HBK&3041-15D-2-RJN)	COOK	69	58
PLOT DATE = 7/14/2015	DATE -	REVISED - T. RAMMACHER 01-06-00	REVISED - C. JUCIUS 09-09-09		<b>TC-11</b>			<b>CONTRACT NO. 60V01</b>				
					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

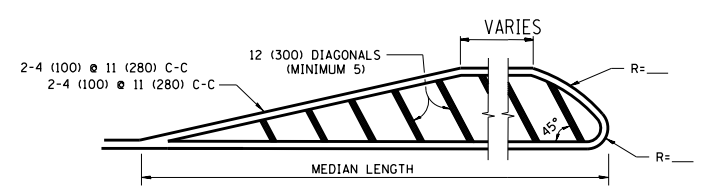




2-LANE ROADWAY



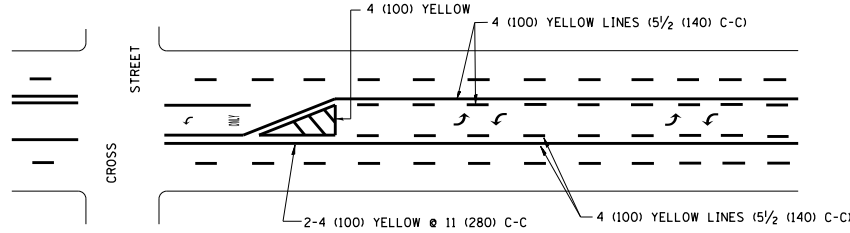
4' (1.2 m) WIDE MEDIANS ONLY



FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

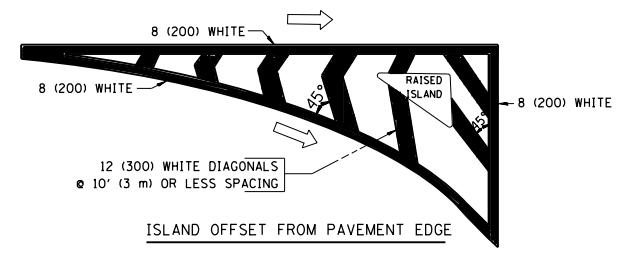
MEDIANS OVER 4' (1.2 m) WIDE



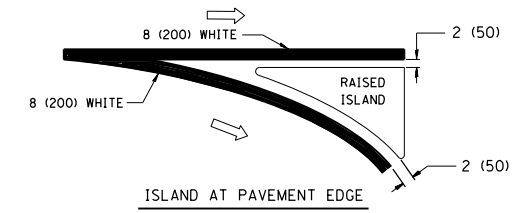
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



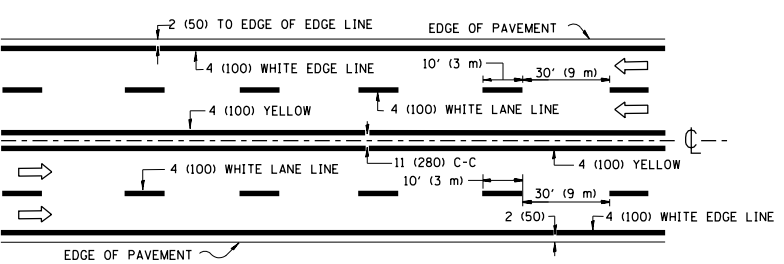
ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

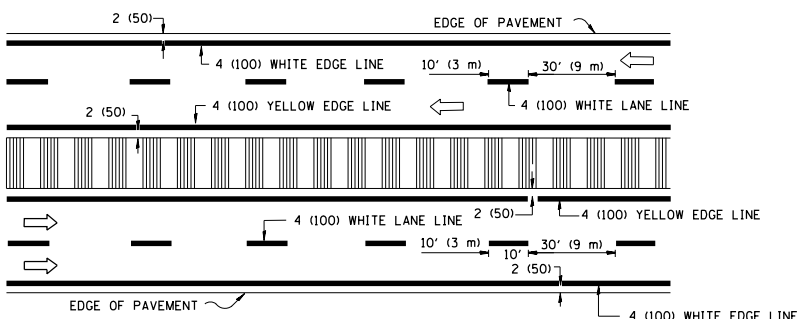
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION	4 (100)	SOLID	YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE. SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 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 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> ) EACH
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.



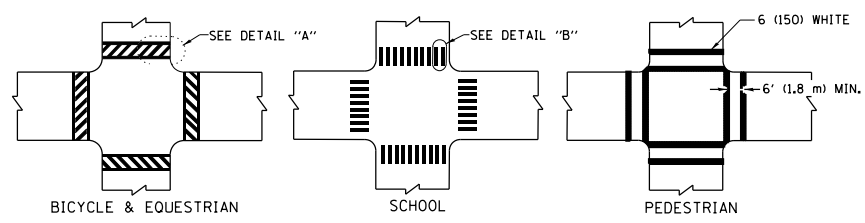
MULTI-LANE UNDIVIDED



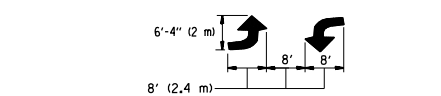
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

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

TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

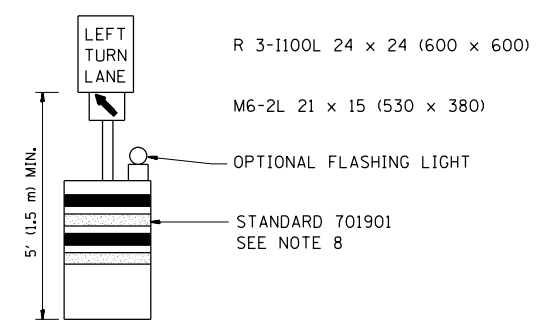
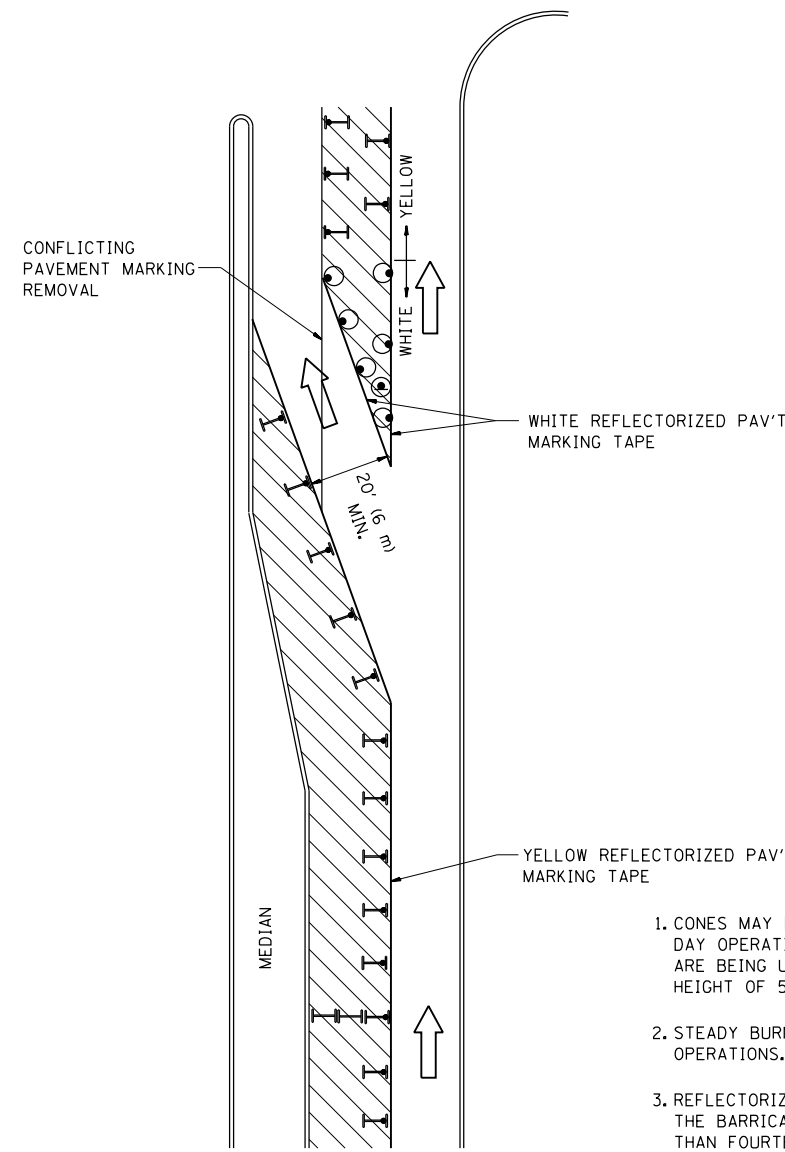


TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

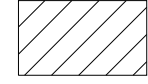







**GENERAL NOTES**

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 OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

**LEGEND**

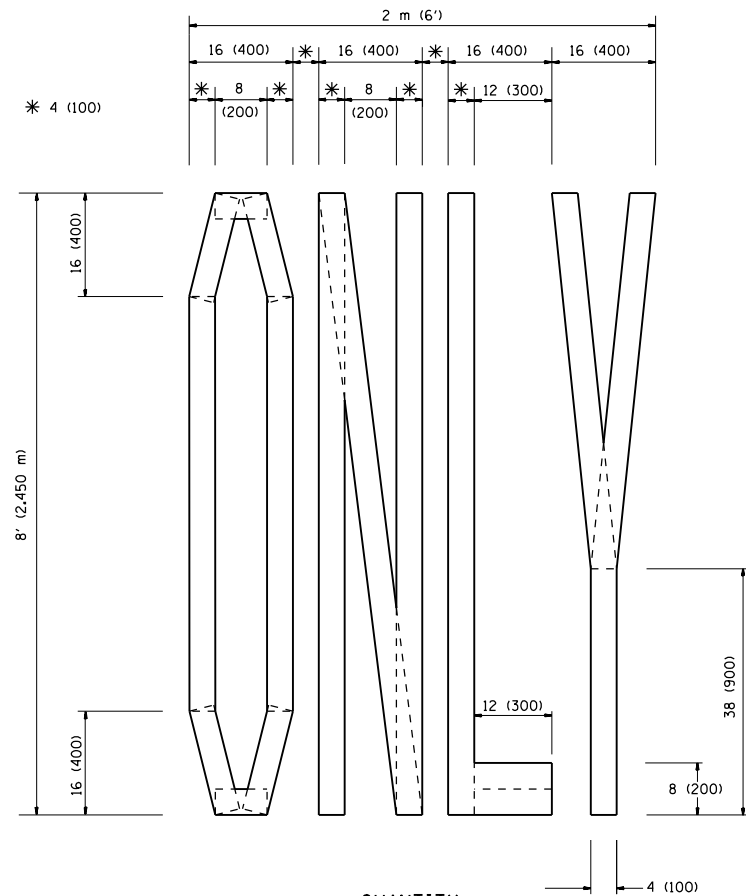
-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

FILE NAME =	USER NAME = guillaumejp	REVISED -T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\PI249\REVISED\Design\HOUSEH\10-07-96		REVISED - A. HOUSEH 10-12-96	REVISED -
	PLOT SCALE = 100.0000' / in.	REVISED -T. RAMMACHER 01-06-00	REVISED -
	PLOT DATE = 7/14/2015		

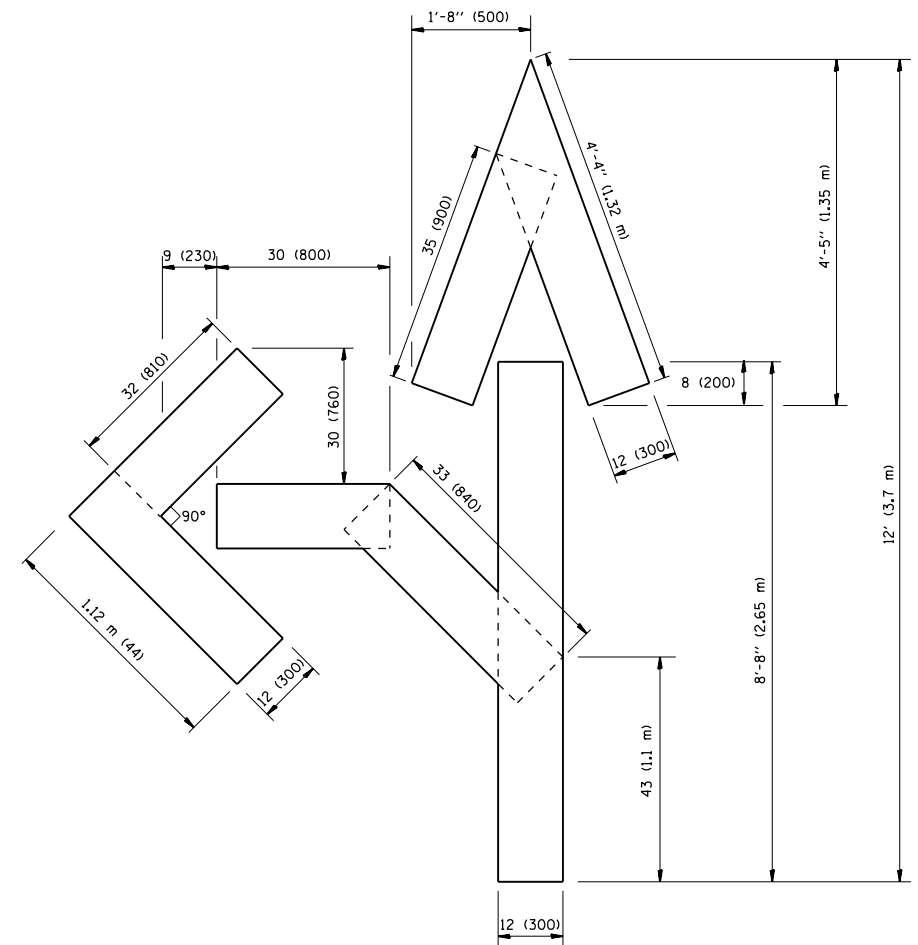
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

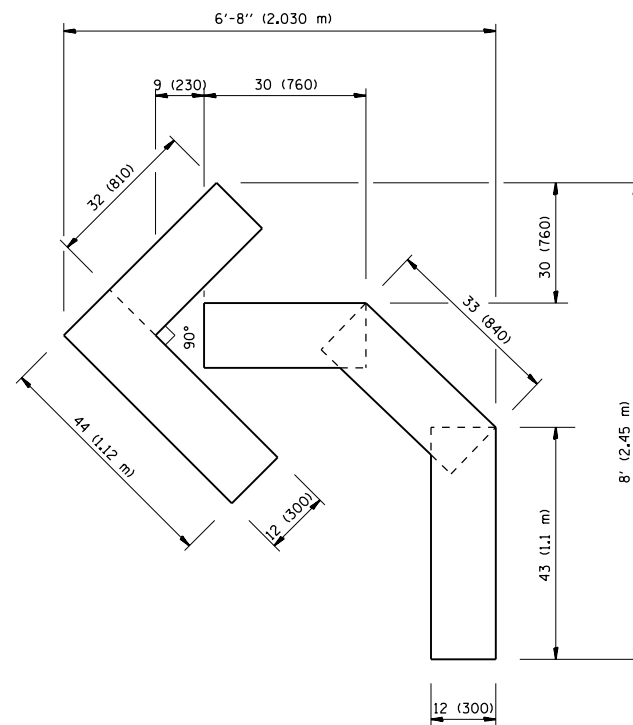
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK&3041-15D-2-R/N)	COOK	69	60
<b>TC-14</b>			<b>CONTRACT NO. 60V01</b>	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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.

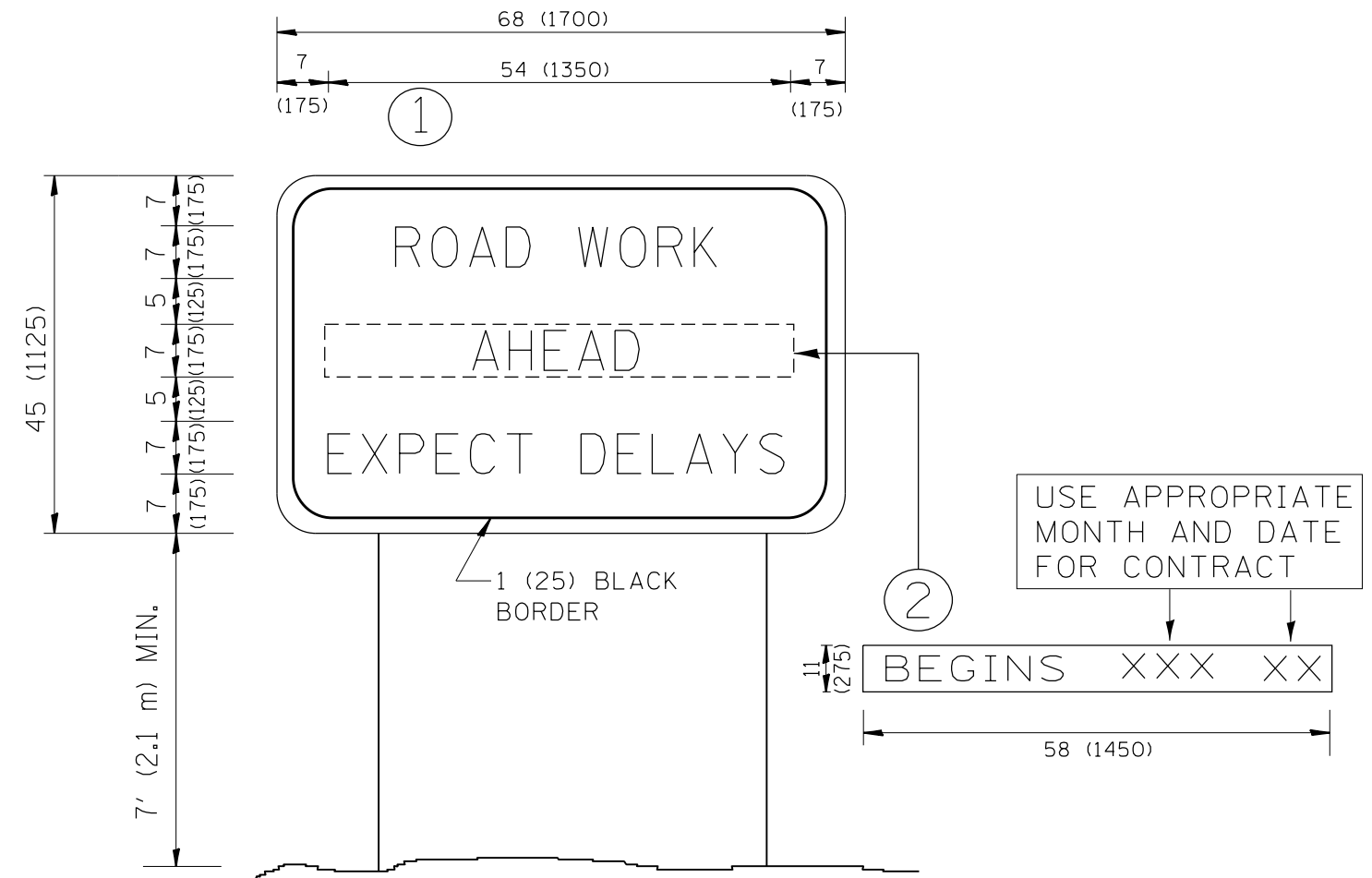
FILE NAME =	USER NAME = guillaumejp	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
pw:\IL\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\P124912\Drawings\Design\P124912-design.dgn		DRAWN -	REVISED -T. RAMMACHER 11-04-97
		CHECKED -	REVISED -T. RAMMACHER 03-02-98
		DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS  
 FOR TRAFFIC STAGING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK&3041-15D-2-RIN	COOK	69	61
TC-16			CONTRACT NO. 60V01	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTES:**

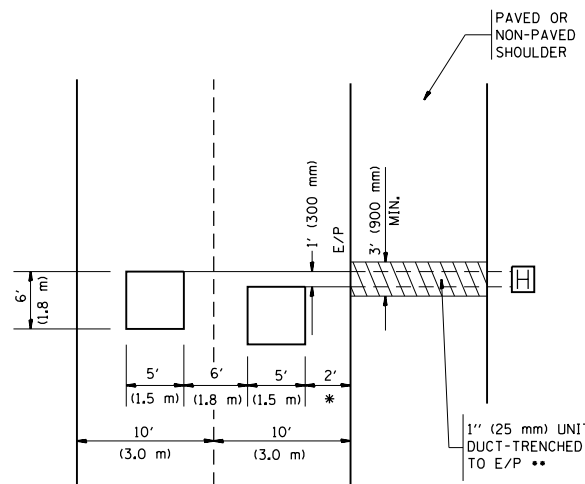
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
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.

FILE NAME =	USER NAME = guillaumejp	DESIGNED -	REVISED - R. MIRS 09-15-97	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ARTERIAL ROAD INFORMATION SIGN</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\PI24912\PI24912-design.dgn	DRAWN	REVISED - R. MIRS 12-11-97	343			(531-4HBK&3041-15D-2-RIN	COOK	69	62	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99	<b>TC-22</b>			<b>CONTRACT NO. 60V01</b>				
PLOT DATE = 7/14/2015	DATE -	REVISED - C. JUCIUS 01-31-07	SCALE: NONE			SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT

**LOOPS NEXT TO SHOULDERS**

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

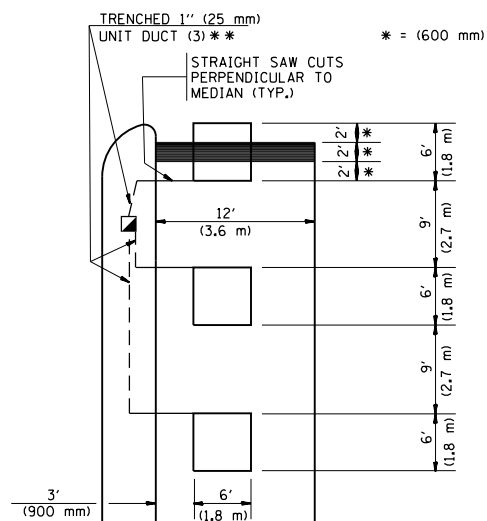


\* = (600 mm)

\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH  
(PROTECTED / PERMITTED LEFT TURN PHASING)**

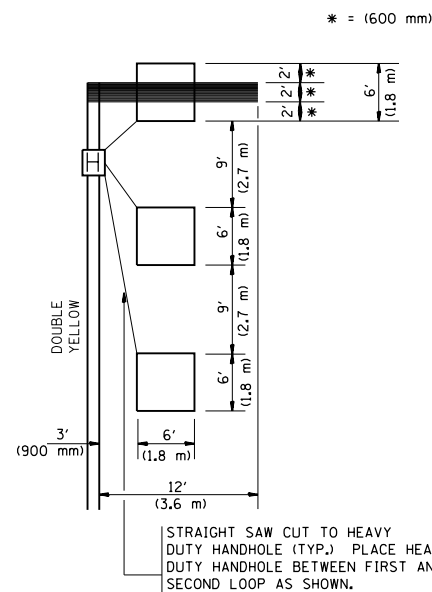
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



\*\* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

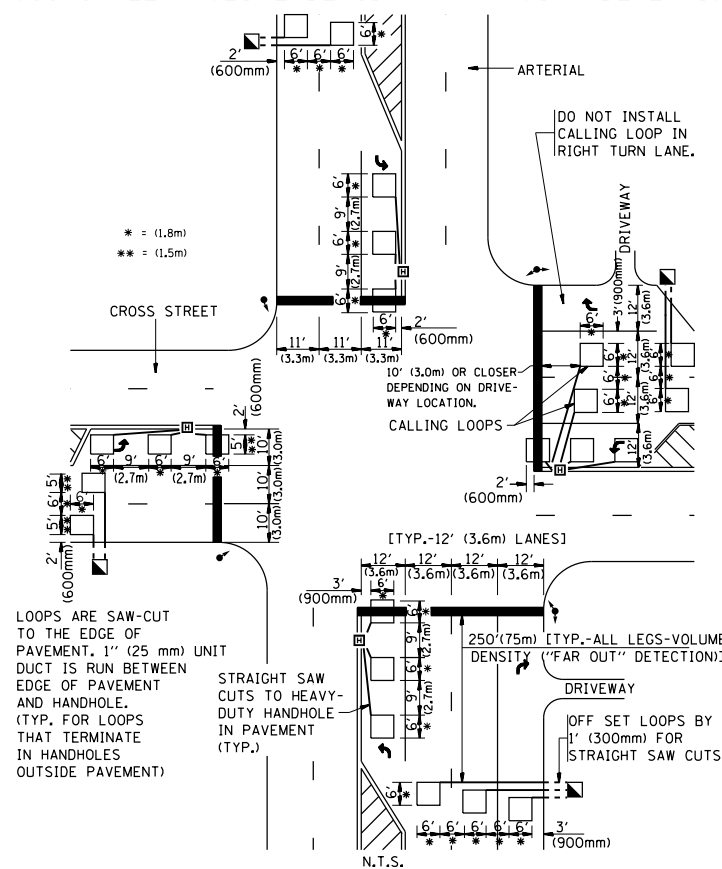
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**LEFT TURN LANES WITHOUT MEDIANS  
VOLUME DENSITY ("FAR OUT" DETECTION)  
ON SAME APPROACH  
(PROTECTED / PERMITTED LEFT TURN PHASING)**



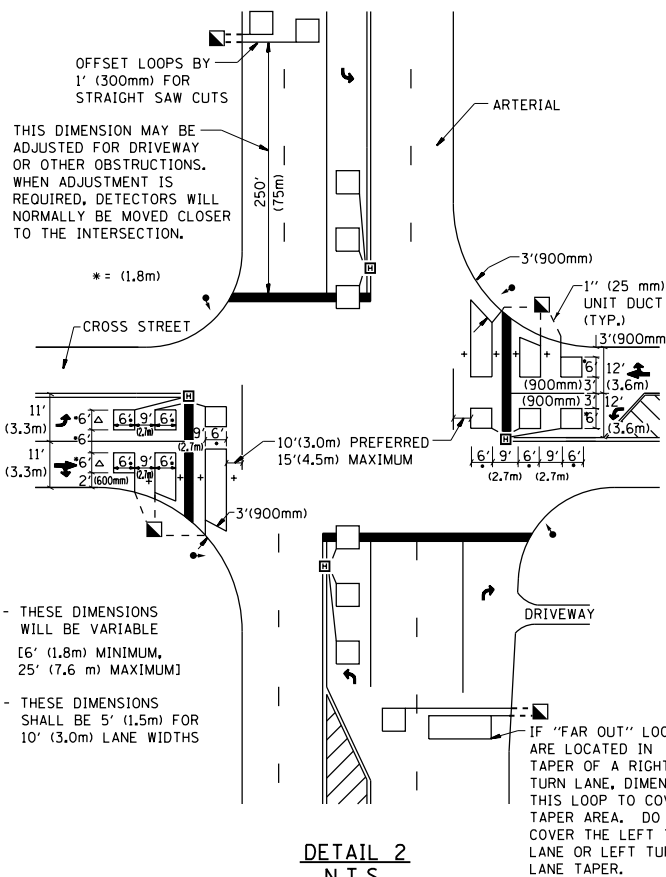
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)  
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**



**DETAIL 1  
N.T.S.**

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)  
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



**DETAIL 2  
N.T.S.**

**NOTES:**

**VEHICLES LOOP DETECTORS**

- \* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- \* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- \* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- \* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- \* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

**PLACEMENT OF DETECTORS**

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

**NOTE:**

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

FILE NAME =	USER NAME = guillaumejp	DESIGNED -	REVISED -
pw:\1\084EBIDINTEG\illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\P1249\Drawings\Design\P124912-design.dgn		DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.		CHECKED - R.K.F.	REVISED -
PLOT DATE = 7/14/2015		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

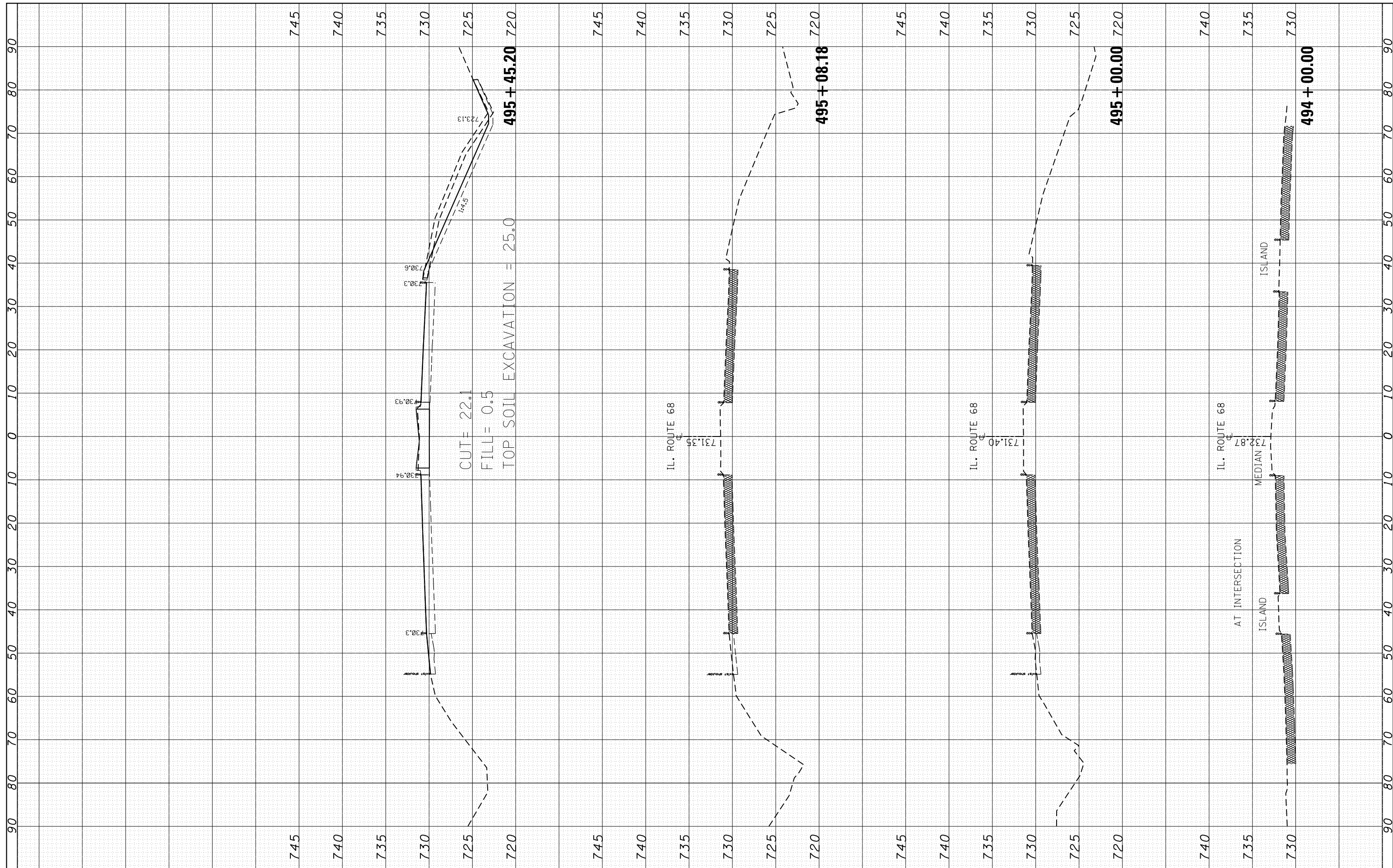
**DISTRICT 1 - DETECTOR LOOP INSTALLATION  
DETAILS FOR ROADWAY RESURFACING**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK&3041-15D-2-R/N)	COOK	69	63
TS-07			CONTRACT NO. 60V01	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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



FILE NAME =  
 USER NAME = guillaumejp  
 DESIGNED -  
 REVISED -  
 CHECKED -  
 DATE -

DESIGNED -  
 REVISED -  
 CHECKED -  
 DATE -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

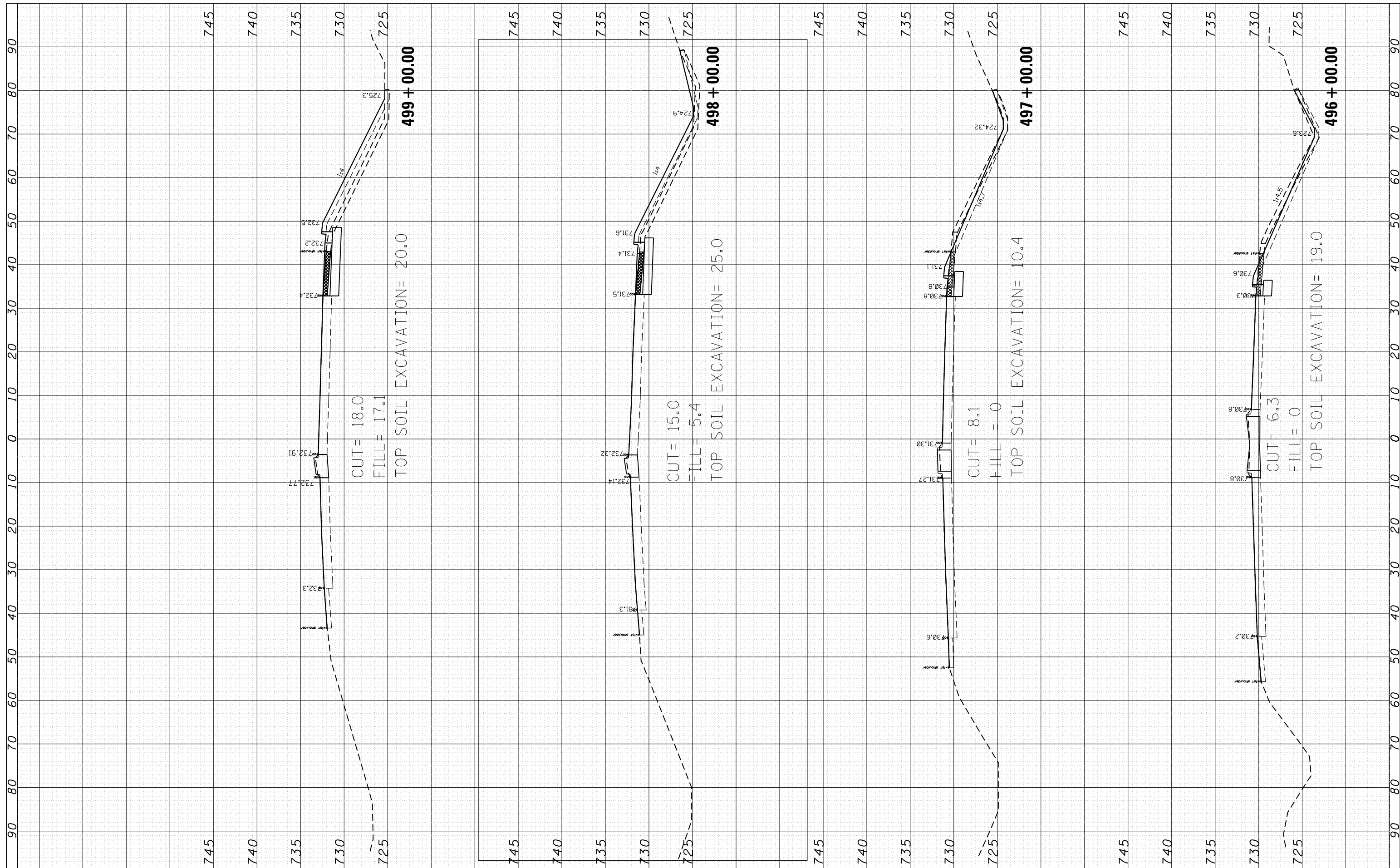
**CROSS SECTIONS  
 IL.ROUTE 68 AT N. WILKE AND KENNICOTT**

SCALE: SHEET OF SHEETS STA. 494+00.00 TO STA. 495+45.20

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK & 3041-15D-2-RIN	COOK	69	64
CONTRACT NO. 60V01				
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME =  
 P:\IL084EBIDINTEG\Illinois.gov\PIDOT\Documents\DOT Offices\District 1\Projects\P124912\CAD\DRAWING\124912-sht-xssht-IL68.dgn

USER NAME = guillaumejp  
 DESIGNED -  
 CHECKED -  
 DATE -

REVISÉ -  
 REVISÉ -  
 REVISÉ -  
 REVISÉ -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

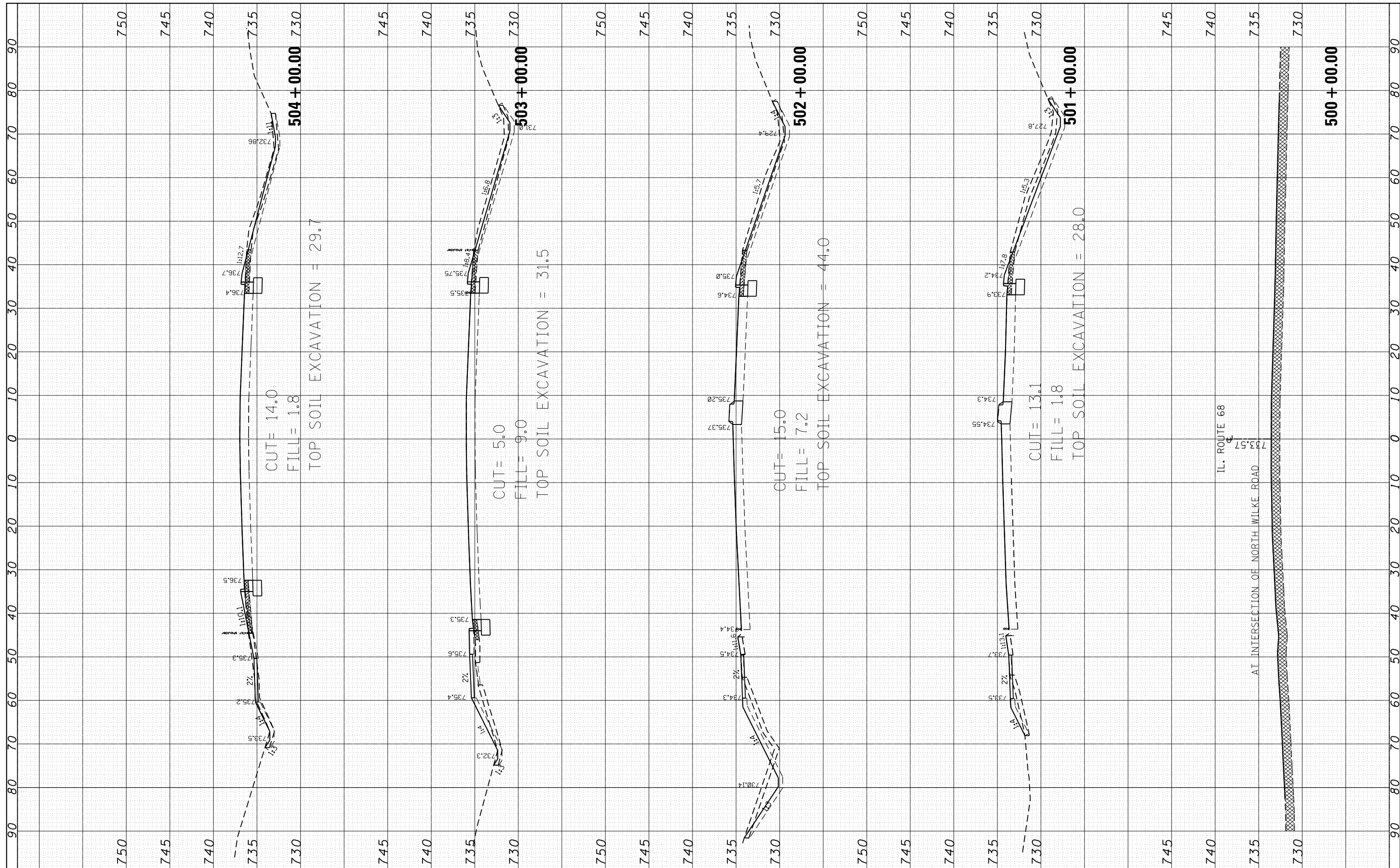
**CROSS SECTIONS  
 IL ROUTE 68 AT N. WILKE AND KENNICOTT**

SCALE: SHEET OF SHEETS STA. 496+00.00 TO STA. 499+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK & 3041-15D-2-RIN	COOK	69	65
CONTRACT NO. 60V01				
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME =  
 USER NAME = guillaumejp  
 DESIGNED -  
 REVISIONS:  
 REVISIONS:  
 REVISIONS:  
 REVISIONS:  
 REVISIONS:  
 PLOT SCALE = 20.0000' / in.  
 CHECKED -  
 DATE -  
 PLOT DATE = 7/14/2015

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

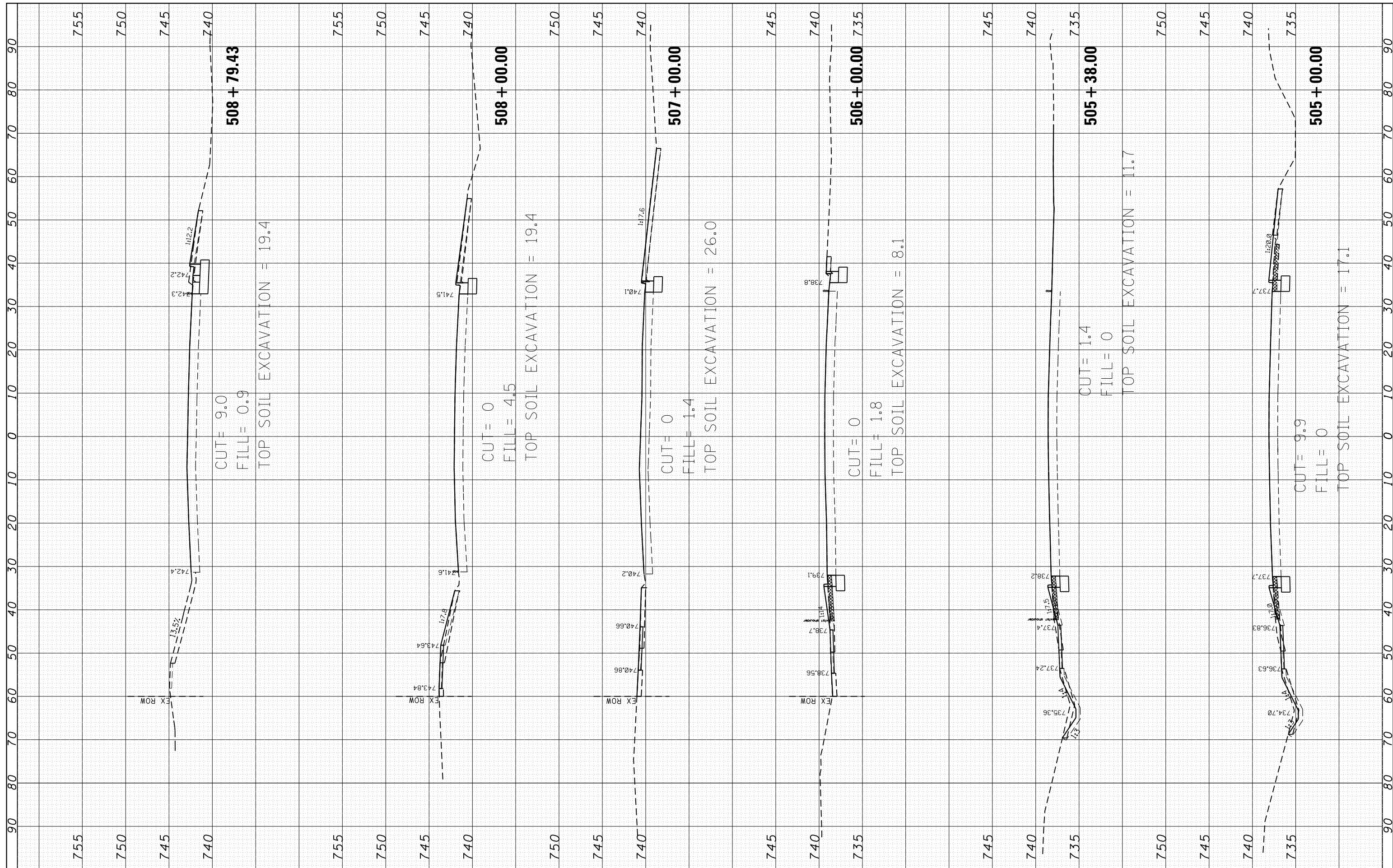
**CROSS SECTIONS**  
**IL ROUTE 68 AT N. WILKE AND KENNICOTT**  
 SCALE: SHEET OF SHEETS STA. 500+00.00 TO STA. 504+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK & 3041-15D-2-RIN	COOK	69	66
CONTRACT NO. 60V01				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
AREAS CHECKED	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
AREAS CHECKED	AREAS CHECKED		



FILE NAME =  
 USER NAME = guillaumejp  
 DESIGNED -  
 REVISIONS:  
 REVISIONS:  
 REVISIONS:  
 REVISIONS:  
 REVISIONS:  
 PLOT SCALE = 20.0000' / in.  
 CHECKED -  
 DATE -

DESIGNED -  
 REVISIONS:  
 REVISIONS:  
 REVISIONS:  
 REVISIONS:  
 REVISIONS:  
 PLOT DATE = 7/14/2015  
 CHECKED -  
 DATE -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

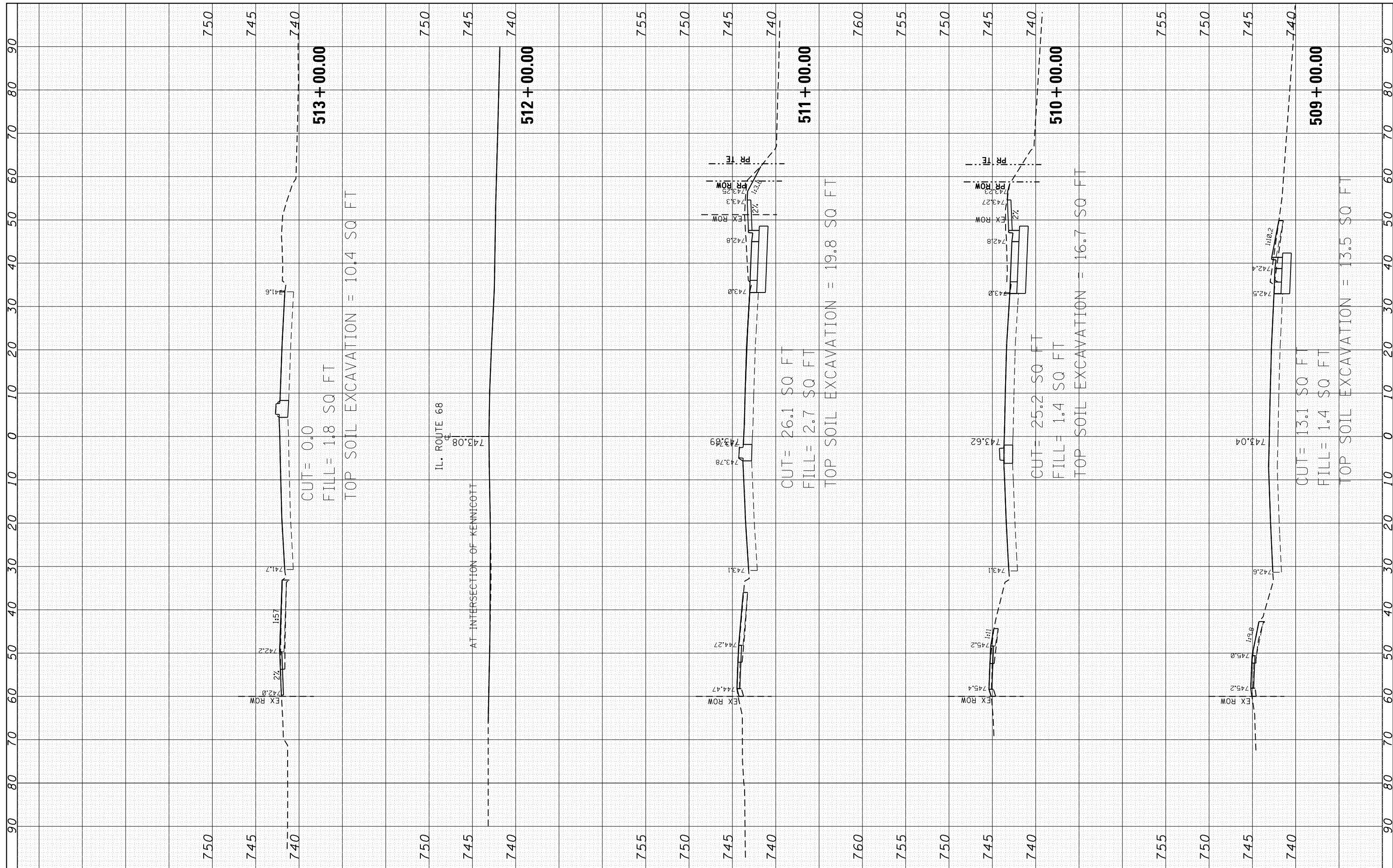
**CROSS SECTIONS  
 IL ROUTE 68 AT N. WILKE AND KENNICOTT**

SCALE: SHEET OF SHEETS STA. 505+00.00 TO STA. 508+79.43

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK & 3041-15D-2-RIN	COOK	69	67
CONTRACT NO. 60V01				
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME =	USER NAME = guillaumejp	DESIGNED -	REVISED -
\\IL084EBIDINTEG\illinois.gov\PIDOT\Documents\DOT Offices\District 1\Projects\P124912\CADD\Drawn\p124912-sht-xxsht-IL68.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

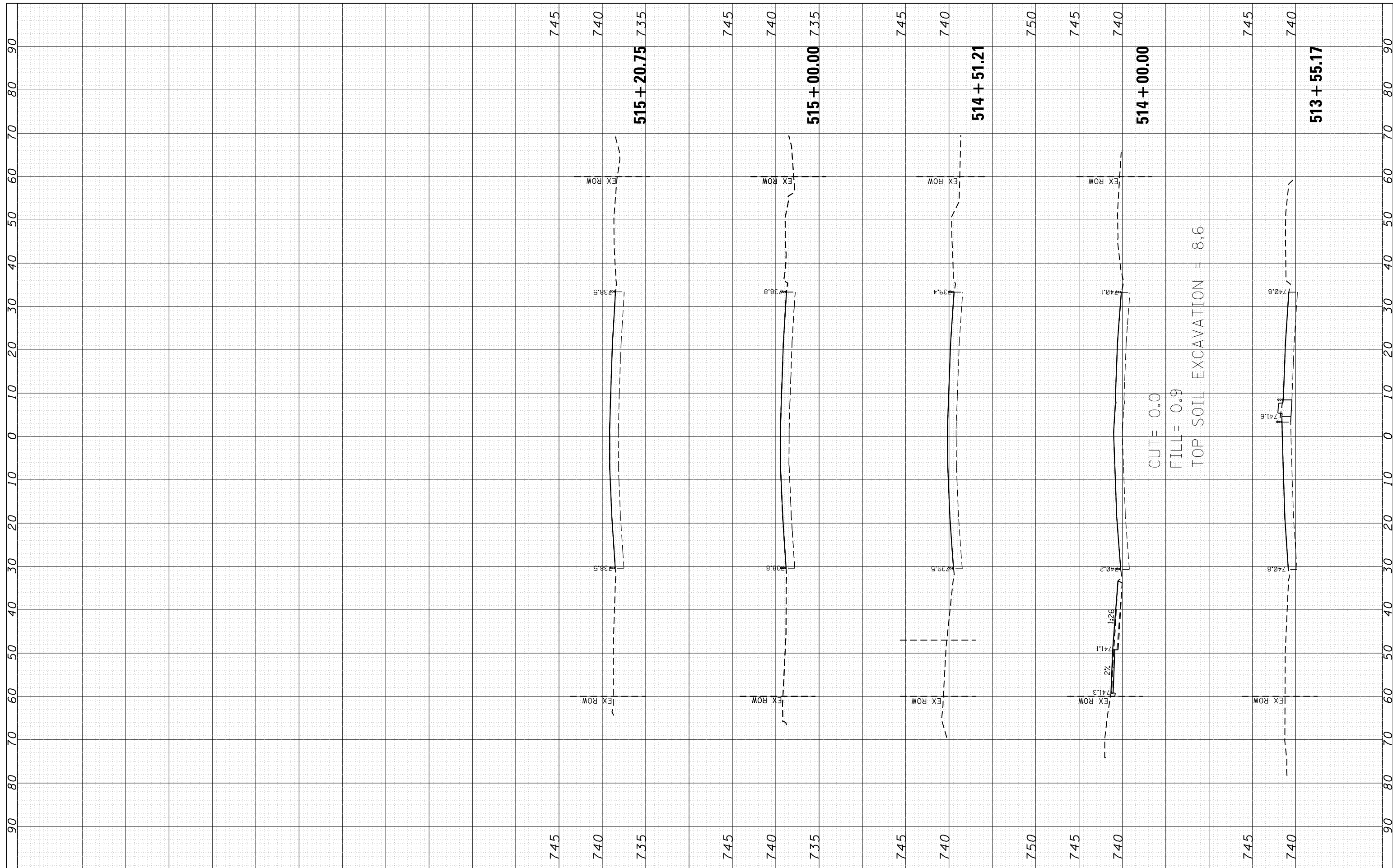
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>			
<b>IL.ROUTE 68 AT N. WILKE AND KENNICOTT</b>			
SCALE:	SHEET	OF	SHEETS
			STA. 509+00.00 TO STA. 513+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK & 3041-15D-2-RIN	COOK	69	68
CONTRACT NO. 60V01				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



FILE NAME =  
 USER NAME = guillaumejp  
 DESIGNED -  
 REVISIONS:  
 1. DATE: 7/14/2015

DESIGNED -  
 CHECKED -  
 DATE -

REVISIONS:  
 1. DATE: 7/14/2015

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 IL ROUTE 68 AT N. WILKE AND KENNICOTT**

SCALE: SHEET OF SHEETS STA. 513+55.17 TO STA. 515+20.75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	(531-4HBK & 3041-15D-2-RIN	COOK	69	69
CONTRACT NO. 60V01				
ILLINOIS FED. AID PROJECT				