06-12-2015 LETTING ITEM 245

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK *	63	1
	ILLINOIS	CONTRACT NO. 60T87		

*63 + 3 = 66

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

F.A.P ROUTE 343: IL. RTE. 68 (DUNDEE ROAD)
AT BARRINGTON ROAD
SECTION: 3045N–1
TURNING LANES
PROJECT: ACCMM-0343(026)
COOK COUNTY
C–91–489–12

PROJECT LOCATED IN THE VILLAGE OF BARRINGTON AND IN THE VILLAGE OF INVERNESS

D-91-489-12

LOCATION OF SECTION INDICATED THUS: –

TRAFFIC DATA

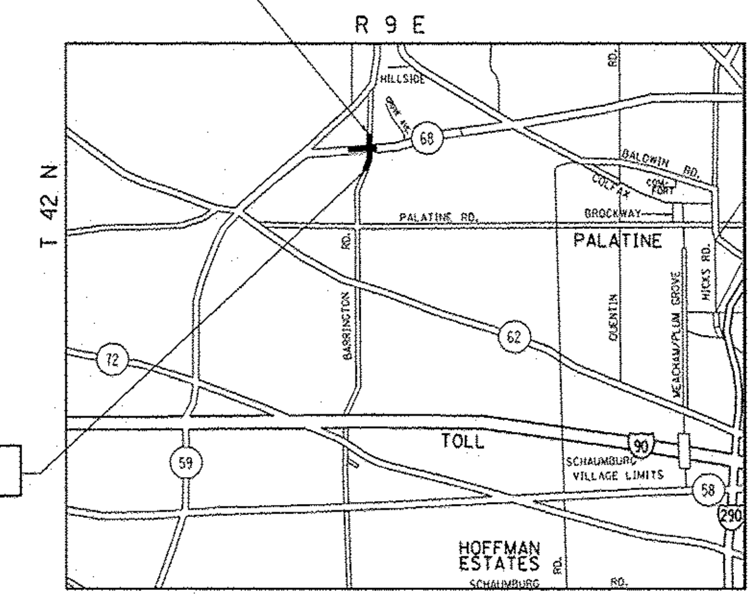
2013 ADT

IL. RTE. 68 = 15,100 ADT
BARRINGTON RD. = 15,800 ADT

POSTED SPEED LIMIT

IL. RTE. 68 = 45 MPH
BARRINGTON RD. = 40 MPH

PROJECT ENDS
STA. 203 + 00



PROJECT BEGINS
STA. 189 + 42

BARRINGTON TOWNSHIP

0 10' 20' 30' — 1" = 10'
0 100' 200' 300' — 1" = 100'
0 50' 100' — 1" = 50'
0 50' 100' — 1" = 40'
0 50' 100' — 1" = 30'
0 50' 100' — 1" = 20'

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

IL. RTE. 68 – GROSS AND NET LENGTH OF PROJECT = 1000 FT = 0.19 MILE
BARRINGTON RD. – GROSS AND NET LENGTH OF PROJECT = 1358 FT = 0.26 MILE

TOTAL GROSS AND NET LENGTH OF PROJECT = 2358 FT = .45 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED December 9 20 14

[illegible]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Mar 20 20 15

[illegible]
acting ENGINEER OF DESIGN AND ENVIRONMENT

Mar 20 20 15

[illegible]
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PROJECT ENGINEER ALAIN MIDY (847) 221–3056
PROJECT MANAGER ISSAM RAYYAN (847) 705–4178

CONTRACT NO. 60T87

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

*Added 59A., 59B., 59C.

STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEM
442201-03	CLASS C AND D PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
602001-02	CATCH BASIN, TYPE A
602011-02	CATCH BASIN, TYPE C
602401-03	MANHOLE, TYPE A
604001-04	FRAME AND LIDS TYPE 1
604036-03	GRATE, TYPE 8
604091-03	FRAME AND GRATE, TYPE 24
606001-06	CONC. CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606006-02	OUTLET FOR CONCRETE CURB ABD GUTTER, TYPE B-6.24 (B-15.60)
666001-01	RIGHT-OF-WAY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATION, MULTILANE, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS- DAY ONLY
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS> 45 MPH
701336-06	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS > 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-04	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
805001-01	ELECTRIC SERVICE INSTALLATIONS 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 AND BONDING
877001-05	STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-10	CONCRETE FOUNDATION DETAIL
880001-01	SPIN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTOR LOOPS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 68 (DUNDEE RD.) AT BARRINGTON RD.
INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	2
		CONTRACT NO. 60T87		
	ILLINOIS FED. AID PROJECT			

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 VILLAGES OF INVERNESS & BARRINGTON

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 40 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OFTHE 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.

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

THE RESIDENT ENGINEER SHALL CONTACT MR. SYED BILGRAMI AREA TRAFFIC FIELD ENGINEER AT (773) 685-8386 . A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

BEFORE BEGINING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERANCE. ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKINGS) 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 DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKINGS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

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

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

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

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS- RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.

TOP OF FRAME ("RIM") ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN RETERMINING THE APPROXIMATE OVERALL HEIGHT OF EACH STRUCTURE. FRAMES ON ALL NEW STRUCTURES SHALL BE ADJUSTED TO THE FINAL ELEVATIONS OF THE AREAS IN WHICH THEY ARE LOCATED, AS PART OF THE STRUCTURE COST.

THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.

TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND CUTTER 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.

ON STATE STANDARDS 482001, AGGREGATE SUBGRADE IMPROVEMENT 12" (300 MM) SHALL BE USED AS THE IMPROVED SUBGRADE. THE ADDITIONAL THICKNESS OF AGGREGATE SUBGRADE IMPROVEMENT UNDER THE SHOULDER SHALL BE INCLUDED IN THE COST PER SQ YARD (SQ METER) OF AGGREGATE SUBGRADE IMPROVEMENT 12" (300 MM).

ALL PIPE UNDERDRAINS SHALL BE PLACED AT A DEPTH OF 30" BELOW THE TOP OF PROPOSED PAVEMENT OR AS DEEP AS POSSIBLE AND IN ACCORDANCE WITH CHECK SHEET # 19 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS. THE COST OF MAKING PIPE UNDERDRAIN CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF PIPE UNDERDRAINS ITEM.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 68 (DUNDEE RD.) AT BARRINGTON RD.
INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	3
		CONTRACT NO. 60T87		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: ROADWAY 0004 FED. 80% STATE 20%	TRAFFIC 0021 FED. 80% STATE 20%	TRAFFIC 0021 VILLAGE 100% E.V.P
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	45	45		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	27	27		
20200100	EARTH EXCAVATION	CU YD	1061	1061		
20800150	TRENCH BACKFILL	CU YD	17	17		
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	662	662		
25000210	SEEDING, CLASS 2A	ACRE	0.76	0.76		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	68	68		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	68	68		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	68	68		
25100630	EROSION CONTROL BLANKET	SQ YD	3699	3699		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	76	76		
28000305	TEMPORARY DITCH CHECKS	FOOT	32	32		
28000400	PERIMETER EROSION BARRIER	FOOT	1572	1572		
28000510	INLET FILTERS	EACH	7	7		
28100105	STONE RIPRAP, CLASS A3	SQ YD	4	4		

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SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: ROADWAY 0004 FED. 80% STATE 20%	TRAFFIC 0021 FED. 80% STATE 20%	TRAFFIC 0021 VILLAGE 100% E.V.P
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	760	760		
35600705	HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/4"	SQ YD	487	487		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	7192	7192		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	16	16		
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	453	453		
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	1076	1076		
42001300	PROTECTIVE COAT	SQ YD	354	354		
44000100	PAVEMENT REMOVAL	SQ YD	144	144		
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	10,494	10,494		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	137	137		
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	155	155		
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SQ YD	117	117		
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SQ YD	117	117		

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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	3045N-1	COOK	63	4
		CONTRACT NO. 60787		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 0004 FED. 80% STATE 20%	TRAFFIC 0021 FED. 80% STATE 20%	TRAFFIC 0021 VILLAGE 100% E.V.P			
~~48101500~~	~~AGGREGATE SHOULDERS, TYPE B 6"~~	~~SQ YD~~	~~154~~	~~154~~					
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	96	96					
48203022	HOT-MIX ASPHALT SHOULDERS, 6 1/4"	SQ YD	407	407					
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	959	959					
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	45	45					
55100500	STORM SEWER REMOVAL 12"	FOOT	10	10					
55100900	STORM SEWER REMOVAL 18"	FOOT	290	290					
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	2	2					
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	3	3					
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	2	2					
60500050	REMOVING CATCH BASINS	EACH	2	2					
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YDS	20	20					
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	1.29	1.29					
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1					
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1062	1062					
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9					

SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 0004 FED. 80% STATE 20%	TRAFFIC 0021 FED. 80% STATE 20%	TRAFFIC 0021 VILLAGE 100% E.V.P			
67100100	MOBILIZATION	L SUM	1	1					
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	80	80					
70300100	SHORT TERM PAVEMENT MARKING	FOOT	9656	9656					
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	399.3	399.3					
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	7208	7208					
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1472	1472					
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	740	740					
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	127	127					
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2243	2243					
* 72000200	SIGN PANEL - TYPE 2	SQ FT	44.5		44.5				
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	399.3	399.3					
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	7208	7208					
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1472	1472					

* Specialty Items

Rev.

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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	3046N-1	COOK	63	5
		CONTRACT NO. 60T87		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

	SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 0004 FED. 80% STATE 20%	TRAFFIC 0021 FED. 80% STATE 20%	TRAFFIC 0021 VILLAGE 100% E.V.P			
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	740	740					
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	127	127					
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	117	117					
	78300200	RAISED REFLECTIVE PAVEMENT MARKER	EACH	94	94					
		REMOVAL								
*	80500020	SERVICE INSTALLATION - POLE MOUNTED	EACH	1		1				
*	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	774		774				
		2" DIA.								
*	81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	57		57				
		2 1/2" DIA.								
*	81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	52		52				
		3" DIA.								
*	81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	441		441				
		4" DIA.								
*	81400100	HANDHOLE	EACH	4		4				
*	81400200	HEAVY-DUTY HANDHOLE	EACH	4		4				
*	81400300	DOUBLE HANDHOLE	EACH	2		2				

	SUMMARY OF QUANTITIES			URBAN	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROADWAY 0004 FED. 80% STATE 20%	TRAFFIC 0021 FED. 80% STATE 20%	TRAFFIC 0021 VILLAGE 100% E.V.P			
*	85700300	FULL-ACTUATED CONTROLLER AND TYPE V	EACH	1		1				
		CABINET								
*	86400100	TRANSCEIVER - FIBER OPTIC	EACH	1		1				
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	290			290			
		14 3C								
*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	847		847				
		14 5C								
*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	2170		2170				
		14 7C								
*	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO.	FOOT	1666		1666				
		14 1 PAIR								
*	87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO.	FOOT	55.5		55.5				
		6 2 C								
*	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT	FOOT	1067		1067				
		GROUNDING CONDUCTOR, NO. 6 1C								
*	87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL	EACH	3		3				
		16 FT.								
*	87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1		1				
*	87700210	STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	2		2				

*Specialty Items

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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	3045N-1	COOK	63	8
		CONTRACT NO. 60T87		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

SUMMARY OF QUANTITIES

	CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: ROADWAY 0004 FED. 80% STATE 20%	TRAFFIC 0021 FED. 80% STATE 20%	TRAFFIC 0021 VILLAGE 100% E.V.P
*	87700250	STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1		1	
*	87800100	CONCRETE FOUNDATION, TYPE A	FOOT	12		12	
*	87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4	
*	87800415	CONCRETE FOUNDATION, TYPE E 36-INCH	FOOT	46		46	
		DIAMETER					
*	88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION,	EACH	3		3	
		MAST-ARM MOUNTED					
*	88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION,	EACH	5		5	
		MAST-ARM MOUNTED					
*	88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION,	EACH	1		1	
		BRACKET MOUNTED					
*	88030240	SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION,	EACH	3		3	
		1-5 SECTION, BRACKET MOUNTED					
*	88200110	TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	8		8	
*	88500100	INDUCTIVE LOOP DETECTOR	EACH	9		9	
*	88600100	DETECTOR LOOP, TYPE I	FOOT	870		870	
*	88700200	LIGHT DETECTOR	EACH	2			2
*	88700300	LIGHT DETECTOR AMPLIFIER	EACH	1			1

SUMMARY OF QUANTITIES

	CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: ROADWAY 0004 FED. 80% STATE 20%	TRAFFIC 0021 FED. 80% STATE 20%	TRAFFIC 0021 VILLAGE 100% E.V.P
*	89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1	
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL	EACH	1		1	
		EQUIPMENT					
*	89502380	REMOVE EXISTING HANDHOLE	EACH	11		11	
*	89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		1	
*	89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	9		9	
*	X0324085	EMERGENCY VEHICLE PRIORITY SYSTEM LINE	FOOT	290			290
		SENSOR CABLE, NO. 20 3/C					
	X2010400	STUMP REMOVAL ONLY	UNIT	15	15		
	X2020110	GRADING AND SHAPING SHOULDERS	UNIT	32	32		
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
	X7030025	WET REFLECTIVE TEMPORARY TAPE, TYPE III	SQ FT	72.6	72.6		
		- LETTERS AND SYMBOLS					
	X7030030	WET REFLECTIVE TEMPORARY TAPE TYPE III,	FOOT	3130	3130		
		4 INCH					
	X7030040	WET REFLECTIVE TEMPORARY TAPE TYPE III,	FOOT	205	205		
		6 INCH					

12

* Specialty Items

13

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PLOT DATE = 12/15/2014

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
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REVISED -
REVISED -

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	3045N-1	COOK	63	7
		CONTRACT NO. 60T87		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: ROADWAY 0004 FED. 80% STATE 20%	TRAFFIC 0021 FED. 80% STATE 20%	TRAFFIC 0021 VILLAGE 100% E.V.P			
X7030055	WET REFLECTIVE TEMPORARY TAPE TYPE III, 24 INCH	FOOT	24	24					
* X8620200	UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1		1				
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1					
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	102.8	102.8					
* Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1		1				

*Specialty Items

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					

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DESIGNED - | DRAWN - | CHECKED - | DATE -

REVISED - | REVISED - | REVISED - | REVISED -

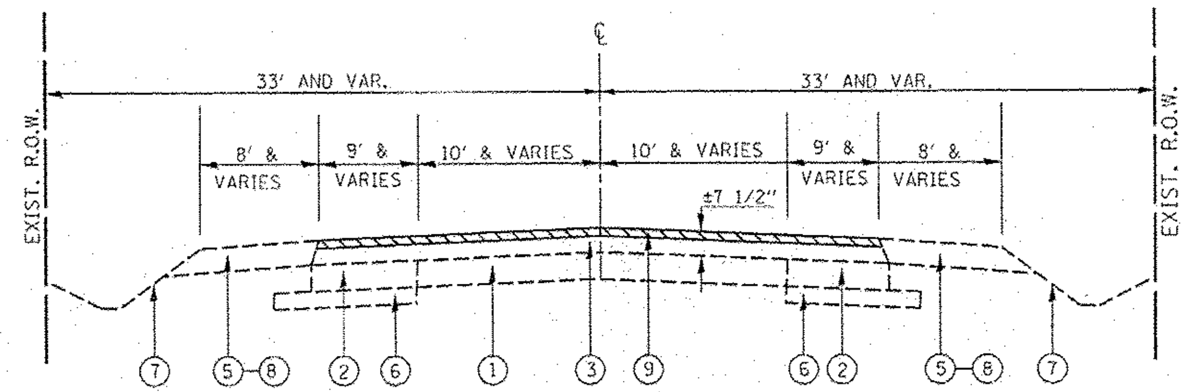
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	8
		CONTRACT NO. 60T87		

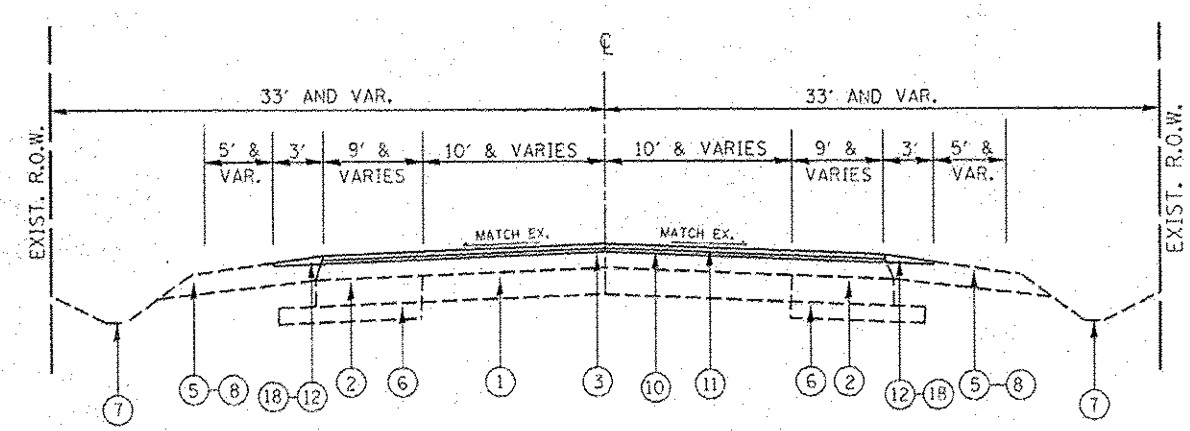
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



IL. RTE. 68 (DUNDEE ROAD)

EXISTING TYPICAL SECTION

Sta. 6+00 to Sta. 16+00 (DUNDEE RD.)



IL. RTE. 68 (DUNDEE ROAD)

PROPOSED TYPICAL SECTION

Sta. 6+00 to Sta. 16+00 (DUNDEE RD.)

LEGEND

1. EXIST. P.C.C. PAVEMENT ± 10″
2. EXIST. HOT-MIX ASPHALT BASE COURSE 9″
3. EXIST. HOT-MIX ASPHALT PAVEMENT AFTER MILLING ± 5″
4. EXIST. COMBINATION CONC. CURB AND GUTTER
5. EXIST. AGGREGATE SHOULDER, TYPE A
6. EXIST. SUB-BASE GRAN. MAT., TYPE A
7. EXIST. DITCH
8. EXIST. HOT-MIX ASPHALT SHOULDER
9. PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2″
10. PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4″
11. PROP. POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4″
12. PROP. GRADING AND SHAPING SHOULDERS
13. PROP. HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/4″
14. PROP. AGGREGATE SUBGRADE IMPROVEMENT, 12″
15. PROP. COMB. CONC. C&G TYPE B-6.24
16. PROP. TOP SOIL, EXCAVATION AND PLACEMENT, SEED, AND NUTIRENTS
17. PROP. HOT-MIX ASPHALT SHOULDERS, 6 1/4″
18. PROP. AGGREGATE WEDGE SHOULDERS, TYPE B
19. PROP. AGGREGATE SHOULDERS, TYPE B, 6″

MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE USES	**VOIDS @ Ndes**	
PAVEMENT WIDENING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm)	4% AT 90 GYR.	**QCP**
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	3.5% AT 50 GYR.	**QC/QA**
HOT-MIX ASPHALT BASE COURSE WIDENING, (HMA BINDER IL-19.0 mm), 7 1/4″	4% AT 70 GYR.	**QC/QA**
HMA SHOULDER CONSTRUCTION		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm)	4% AT 90 GYR.	**QCP**
HOT-MIX ASPHALT SHOULDER (HMA BINDER IL-19.0 mm), 6 1/4″		**QC/QA**
PAVEMENT RESURFACING & SHOULDER RESURFACING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm)	4% AT 90 GYR.	**QCP**
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	3.5% AT 50 GYR.	**QC/QA**
PATCHING		
CLASS D PATCHES (HMA BINDER, IL-19.0)	4% AT 70 GYR.	**QC/QA**
QMP Designation: Quality Control/Quality Assurance (QC/QA); Quality Control for Performance (QCP)		

NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN

NOTE 2: THE "AC TYPE" FOR POLYMERIZED LEVELING BINDER IL-4.75 MIXTURE SHALL BE "SBS/SBR PG 76-22", FOR POLYMERIZED HMA SURFACE COURSE, MIX F, N90 MIXTURE SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE

▨ REMOVAL ITEMS

THE CONTRACTOR SHALL MILL FIRST THEN PATCH

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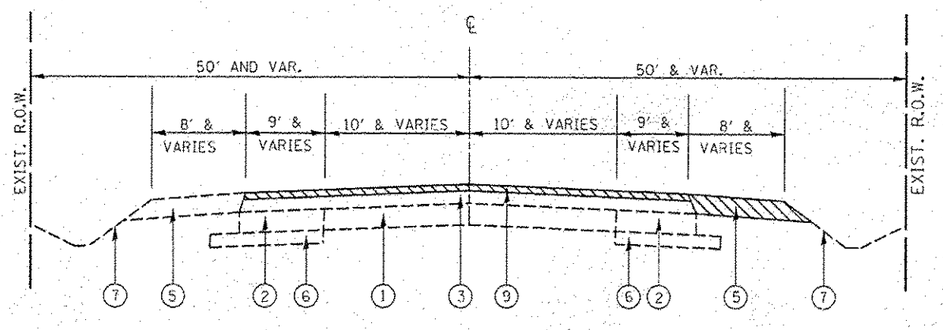
Default	PLOT DATE = 8/7/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

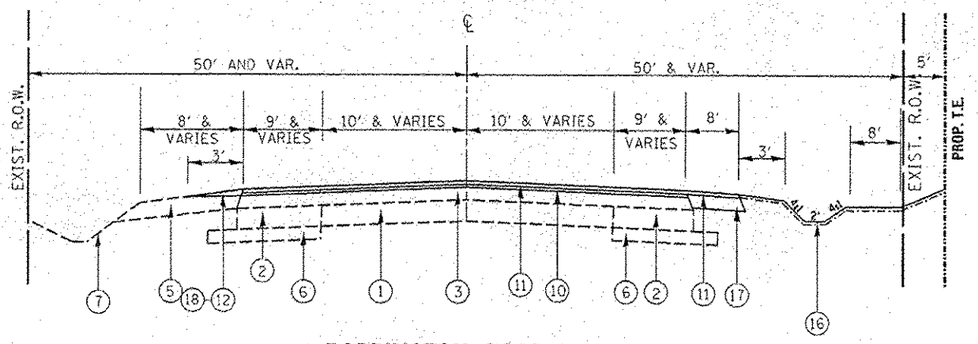
IL 68 (DUNDEE RD.) AT BARRINGTON RD.
TYPICAL CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. TO STA.

F.AER. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	9
		CONTRACT NO. 60T87		
	ILLINOIS FED. AID PROJECT			



BARRINGTON ROAD
EXISTING TYPICAL SECTION
Sta. 189+87 to Sta. 194+58 (BARRINGTON ROAD)



BARRINGTON ROAD
PROPOSED TYPICAL SECTION
Sta. 189+87 to Sta. 194+58 (BARRINGTON ROAD)

LEGEND

1. EXIST. P.C.C. PAVEMENT ± 10"
2. EXIST. HOT-MIX ASPHALT BASE COURSE 9"
3. EXIST. HOT-MIX ASPHALT PAVEMENT AFTER MILLING ± 5"
4. EXIST. COMBINATION CONC. CURB AND GUTTER
5. EXIST. AGGREGATE SHOULDER, TYPE A
6. EXIST. SUB-BASE GRAN. MAT., TYPE A
7. EXIST. DITCH
8. EXIST. HOT-MIX ASPHALT SHOULDER
9. PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
10. PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
11. PROP. POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
12. PROP. GRADING AND SHAPING SHOULDERS
13. PROP. HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/4"
14. PROP. AGGREGATE SUBGRADE IMPROVEMENT, 12"
15. PROP. COMB. CONC. C&G TYPE B-6.24
16. PROP. TOP SOIL, EXCAVATION AND PLACEMENT, SEED, AND NUTIRENTS
17. PROP. HOT-MIX ASPHALT SHOULDERS, 6 1/4"
18. PROP. AGGREGATE WEDGE SHOULDERS, TYPE B

REMOVAL ITEMS

THE CONTRACTOR SHALL MILL FIRST THEN PATCH

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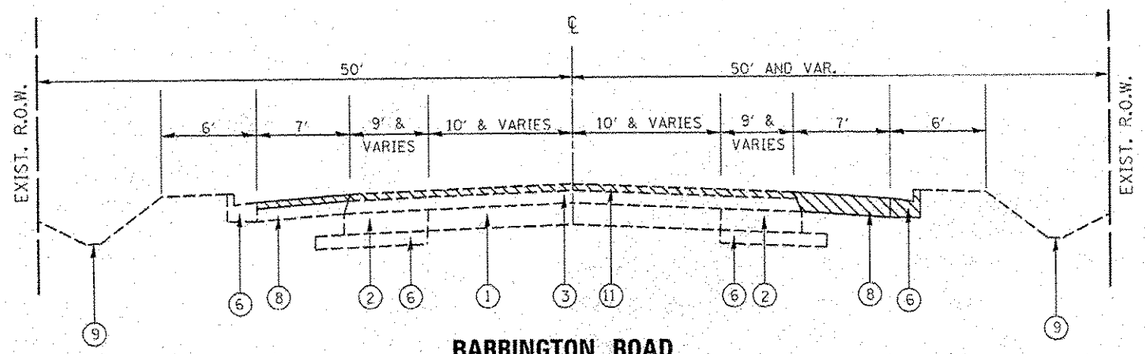
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 68 (DUNDEE RD.) AT BARRINGTON RD.
TYPICAL CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

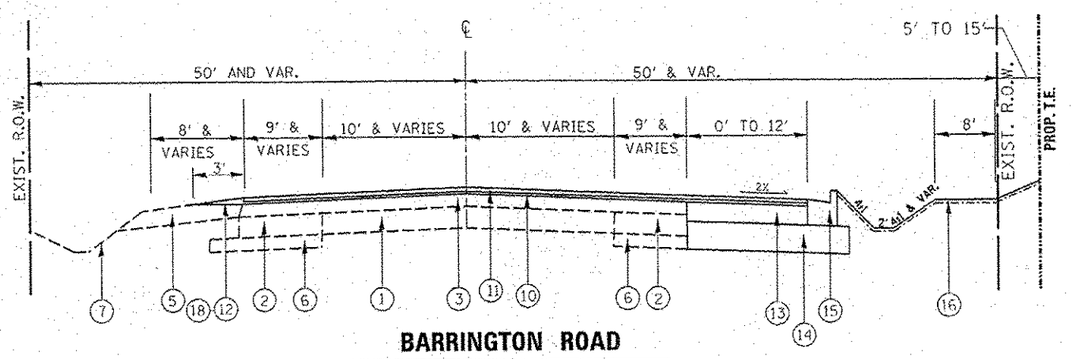
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045R-1	COOK	63	10
		CONTRACT NO. 60787		
		ILLINOIS FED. AID PROJECT		



BARRINGTON ROAD

EXISTING TYPICAL SECTION

Sta. 194+58 to Sta. 203+00



BARRINGTON ROAD

PROPOSED TYPICAL SECTION

Sta. 194+58 to Sta. 203+00

REMOVAL ITEMS

THE CONTRACTOR SHALL MILL FIRST THEN PATCH

LEGEND

1. EXIST. P.C.C. PAVEMENT ± 10"
2. EXIST. HOT-MIX ASPHALT BASE COURSE 9"
3. EXIST. HOT-MIX ASPHALT PAVEMENT AFTER MILLING ± 5"
4. EXIST. COMBINATION CONC. CURB AND GUTTER
5. EXIST. AGGREGATE SHOULDER, TYPE A
6. EXIST. SUB-BASE GRAN. MAT., TYPE A
7. EXIST. DITCH
8. EXIST. HOT-MIX ASPHALT SHOULDER
9. PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
10. PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
11. PROP. POLYMERIZED HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
12. PROP. GRADING AND SHAPING SHOULDERS
13. PROP. HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/4"
14. PROP. AGGREGATE SUBGRADE IMPROVEMENT, 12"
15. PROP. COMB. CONC. C&G TYPE B-6.24
16. PROP. TOP SOIL, EXCAVATION AND PLACEMENT, SEED, AND NUTIRENTS
17. PROP. HOT-MIX ASPHALT SHOULDERS, 6 1/4"
18. PROP. AGGREGATE WEDGE SHOULDERS, TYPE B

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 68 (DUNDEE RD.) AT BARRINGTON RD.
TYPICAL CROSS SECTIONS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	11
		CONTRACT NO. 60T87		
		ILLINOIS FED. AID PROJECT		

EARTHWORK SCHEDULE

BARRINGTON RD.	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.)
STAGE I	1061	662	901	562	199	440	702	122
TOTAL	1061	662	901	562	199	440	702	122

TREE REMOVAL SCHEDULE

STATION	OFFSET/SIDE (FEET)	6 TO 15 UNIT (DIA.)	OVER 15 UNIT (DIA.)
9+11	43' R		27
9+76	36' R	14	
11+07	41' R	16	
11+44	41' R	15	
TOTAL	**6 TO 15 UNIT DIA.= 45**		
	OVER 15 UNIT DIA.= 27		

FILE NAME = P170109-Design.dgn	USER NAME = oberbeva	DESIGNED	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 68 (DUNDEE RD.) AT BARRINGTON RD. SCHEDULES OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN	REVISED -			343	3045N-1	COOK	63	12
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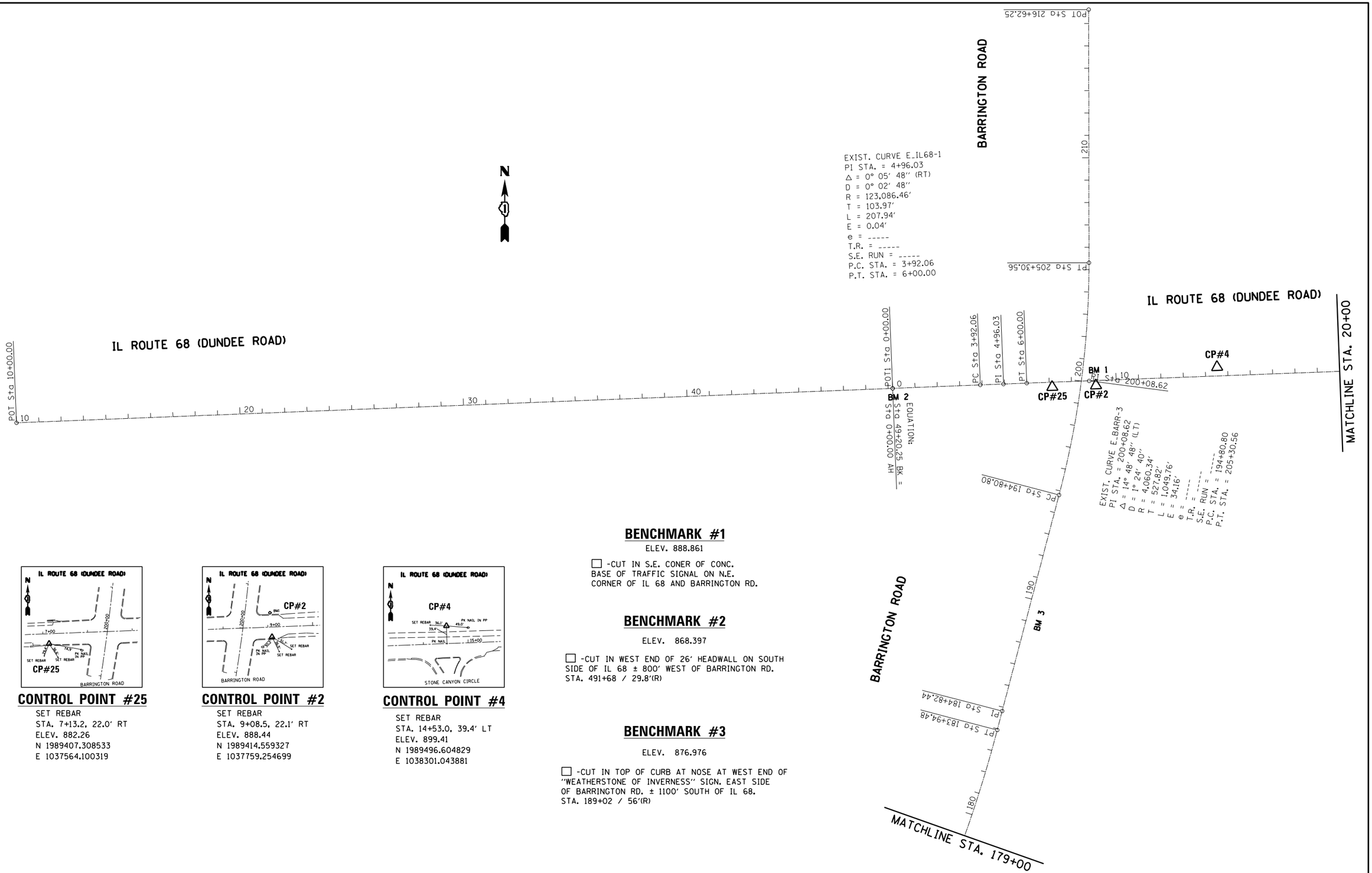
	PLOT DATE = 5/7/2015	DATE	-		SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		



CONTROL POINT #25

SET REBAR
STA. 7+13.2, 22.0′ RT
ELEV. 882.26
N 1989407.308533
E 1037564.100319

CONTROL POINT #2

SET REBAR
STA. 9+08.5, 22.1′ RT
ELEV. 888.44
N 1989414.559327
E 1037759.254699

CONTROL POINT #4

SET REBAR
STA. 14+53.0, 39.4′ LT
ELEV. 899.41
N 1989496.604829
E 1038301.043881

BENCHMARK #1

ELEV. 888.861

☐ -CUT IN S.E. CONER OF CONC. BASE OF TRAFFIC SIGNAL ON N.E. CORNER OF IL 68 AND BARRINGTON RD.

BENCHMARK #2

ELEV. 868.397

☐ -CUT IN WEST END OF 26′ HEADWALL ON SOUTH SIDE OF IL 68 ± 800′ WEST OF BARRINGTON RD. STA. 491+68 / 29.8′(R)

BENCHMARK #3

ELEV. 876.976

☐ -CUT IN TOP OF CURB AT NOSE AT WEST END OF "WEATHERSTONE OF INVERNESS" SIGN. EAST SIDE OF BARRINGTON RD. ± 1100′ SOUTH OF IL 68. STA. 189+02 / 56′(R)

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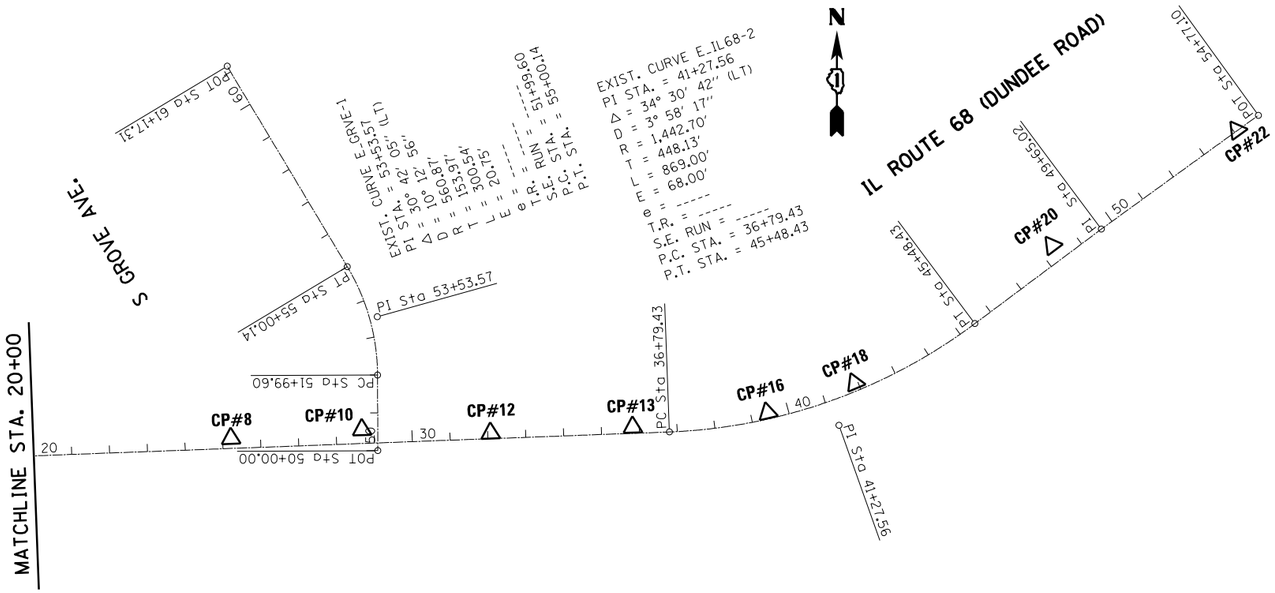
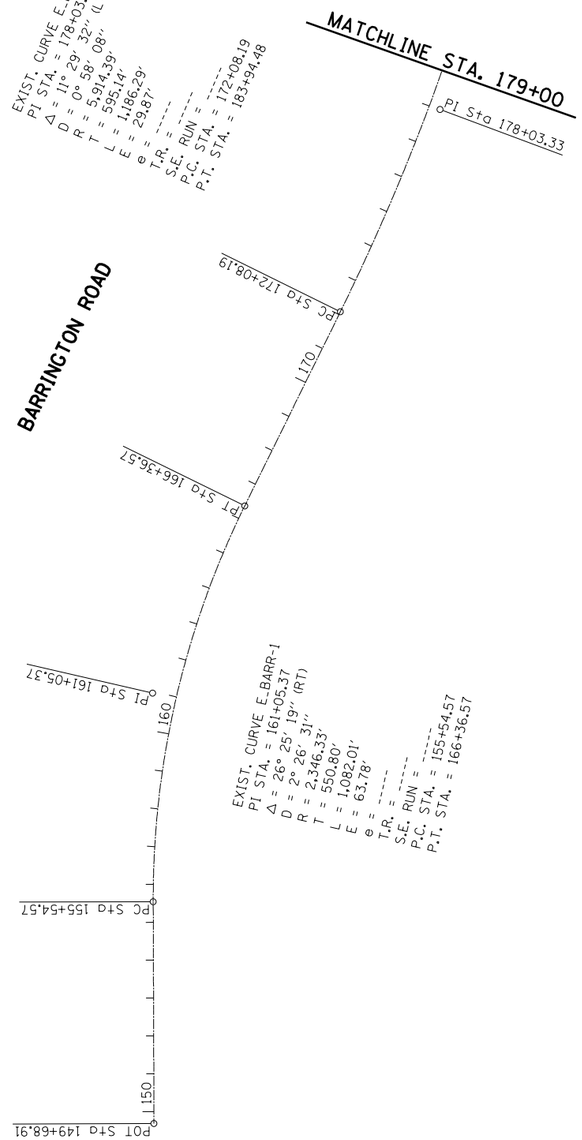
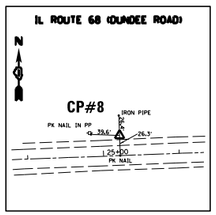
	PLOT SCALE = 400.0000 ′ / in.	DRAWN -	REVISED -			343	3045N-1	COOK	63	13
Default	PLOT DATE = 12/12/2014	CHECKED -	REVISED -					CONTRACT NO. 60T87		
		DATE -	REVISED -		SCALE: 1"= 200' SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

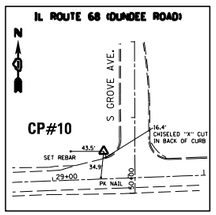






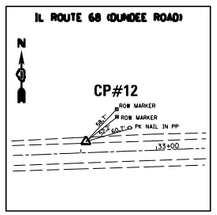
CONTROL POINT #8

SET REBAR
STA. 25+22.1, 26.5' LT
ELEV. 887.88
N 1989523.850311
E 1039369.910265



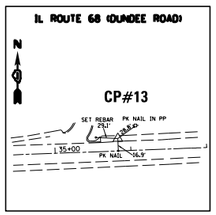
CONTROL POINT #10

SET REBAR
STA. 28+68.7, 36.5' LT
ELEV. 883.36
N 1989546.812325
E 1039715.943342



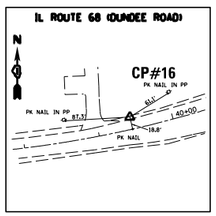
CONTROL POINT #12

SET REBAR
STA. 32+07.2, 14.7' LT
ELEV. 878.17
N 1989537.754221
E 1040055.009328



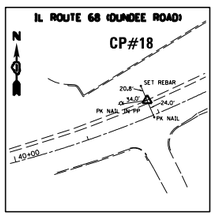
CONTROL POINT #13

SET REBAR
STA. 35+83.3, 16.4' LT
ELEV. 877.39
N 1989553.606415
E 1040430.759539



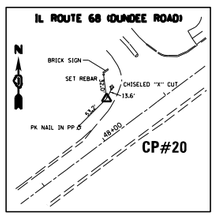
CONTROL POINT #16

SET REBAR
STA. 39+44.8, 16.3 LT
ELEV. 877.50
N 1989591.434981
E 1040786.555191



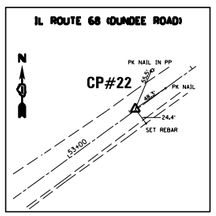
CONTROL POINT #18

SET REBAR
STA. 41+92.0, 21.0' LT
ELEV. 874.15
N 1989670.087541
E 1041017.115276



CONTROL POINT #20

SET REBAR
STA. 48+35.2, 43.4' LT
ELEV. 866.20
N 1990033.314758
E 1041537.891120



CONTROL POINT #22

SET PK NAIL
STA. 54+08.1, 1.4' LT
ELEV. 858.17
N 1990337.437857
E 1042025.807275

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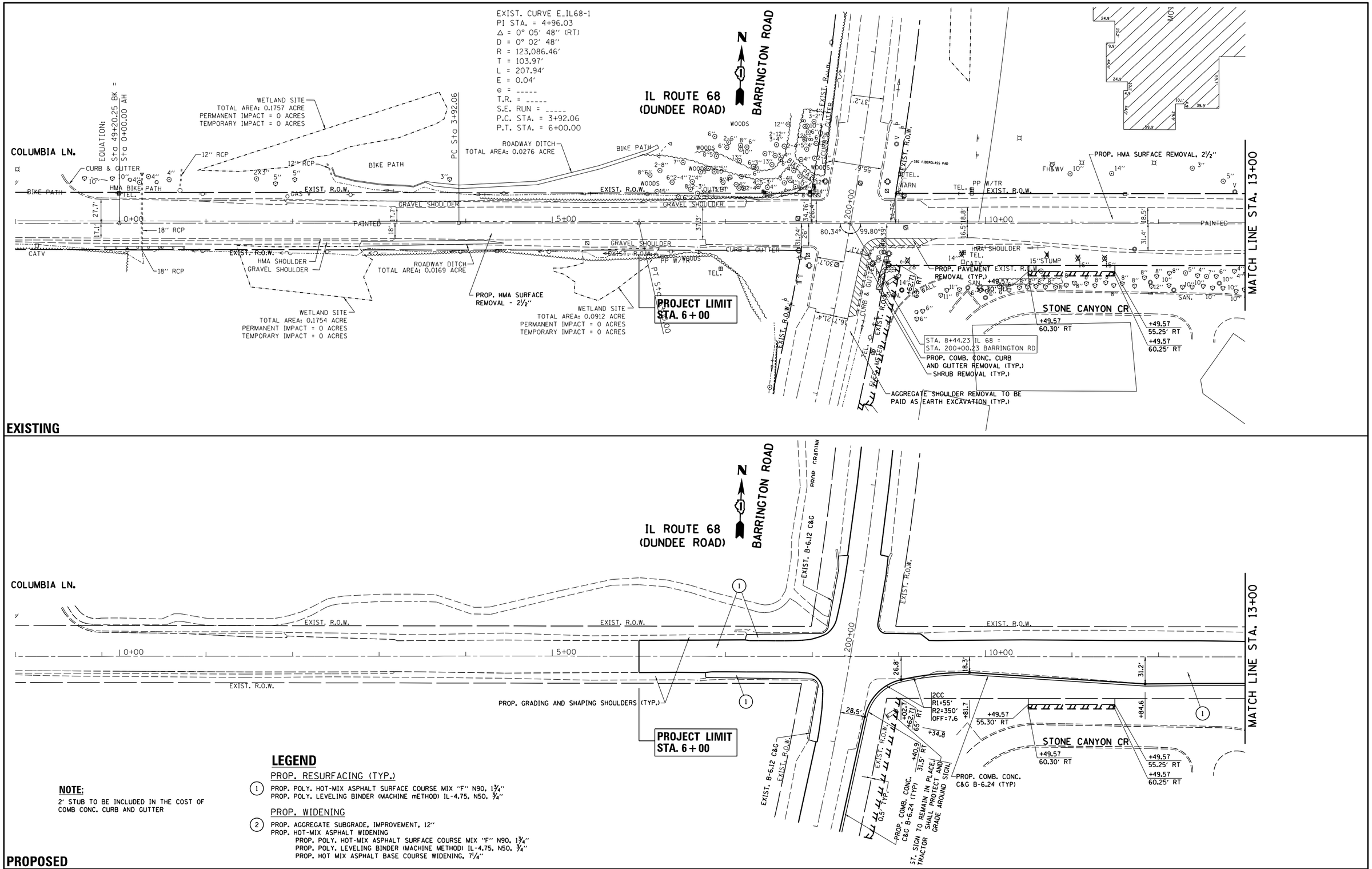
	PLOT SCALE = 400.0000 ' / in.	CHECKED -	REVISED -		SCALE: 1"= 200' SHEET OF SHEETS STA. TO STA.
Default	PLOT DATE = 12/12/2014	DATE -	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	14
		CONTRACT NO. 60T87		
	ILLINOIS FED. AID PROJECT			



LEGEND

PROP. RESURFACING (TYP.)

(1) PROP. POLY. HOT-MIX ASPHALT SURFACE COURSE MIX "F" N90, 1¾"
PROP. POLY. LEVELING BINDER (MACHINE METHOD) IL-4.75, N50, ¾"

PROP. WIDENING

(2) PROP. AGGREGATE SUBGRADE, IMPROVEMENT, 12"
PROP. HOT-MIX ASPHALT WIDENING
PROP. POLY. HOT-MIX ASPHALT SURFACE COURSE MIX "F" N90, 1¾"
PROP. POLY. LEVELING BINDER (MACHINE METHOD) IL-4.75, N50, ¾"
PROP. HOT MIX ASPHALT BASE COURSE WIDENING, 7¼"

NOTE:

2' STUB TO BE INCLUDED IN THE COST OF COMB CONC. CURB AND GUTTER

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		DRAWN -	REVISED -
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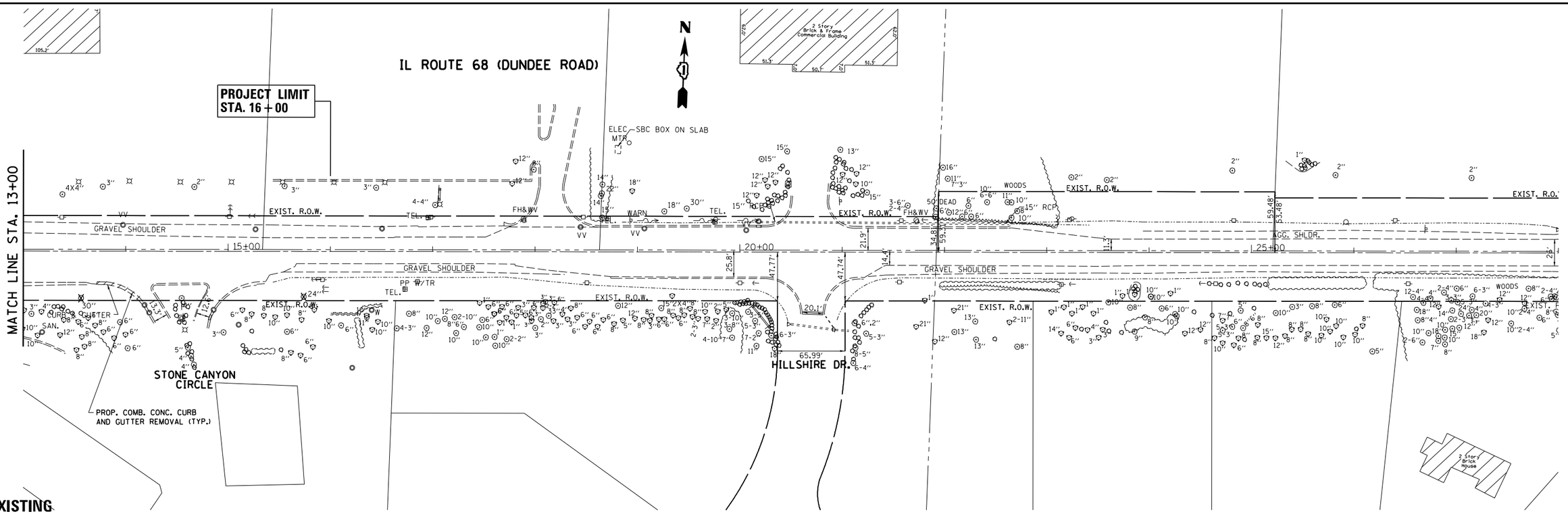
Default	PLOT DATE = 12/12/2014	DATE -	REVISED -

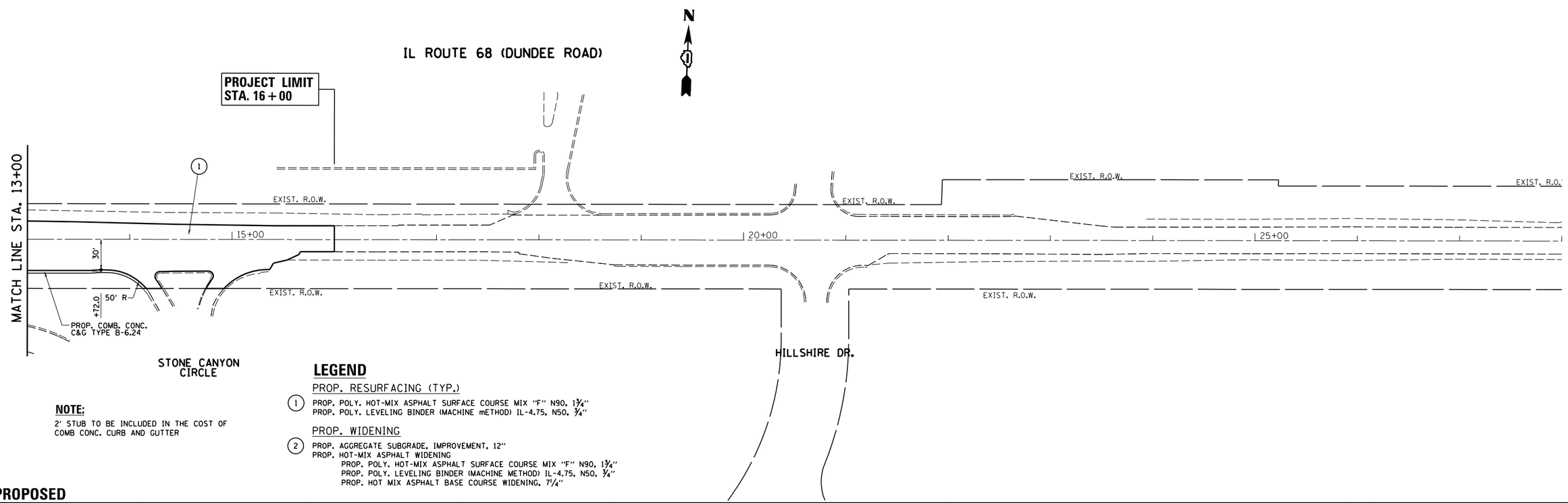
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED ROADWAY PLAN
IL. ROUTE 68 AT BARRINGTON ROAD

SCALE: 1"= 50' | SHEET OF SHEETS | STA. 48+00.00 TO STA.13+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	15
		CONTRACT NO. 60T87		
	ILLINOIS FED. AID PROJECT			





LEGEND

PROP. RESURFACING (TYP.)

(1) PROP. POLY. HOT-MIX ASPHALT SURFACE COURSE MIX "F" N90, 1¾"
PROP. POLY. LEVELING BINDER (MACHINE mETHOD) IL-4.75, N50, ¾"

PROP. WIDENING

(2) PROP. AGGREGATE SUBGRADE, IMPROVEMENT, 12"
PROP. HOT-MIX ASPHALT WIDENING
PROP. POLY. HOT-MIX ASPHALT SURFACE COURSE MIX "F" N90, 1¾"
PROP. POLY. LEVELING BINDER (MACHINE METHOD) IL-4.75, N50, ¾"
PROP. HOT MIX ASPHALT BASE COURSE WIDENING, 7¼"

NOTE:
2' STUB TO BE INCLUDED IN THE COST OF COMB CONC. CURB AND GUTTER

PROPOSED

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Default	PLOT DATE = 12/12/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED ROADWAY PLAN
IL. ROUTE 68 AT BARRINGTON ROAD

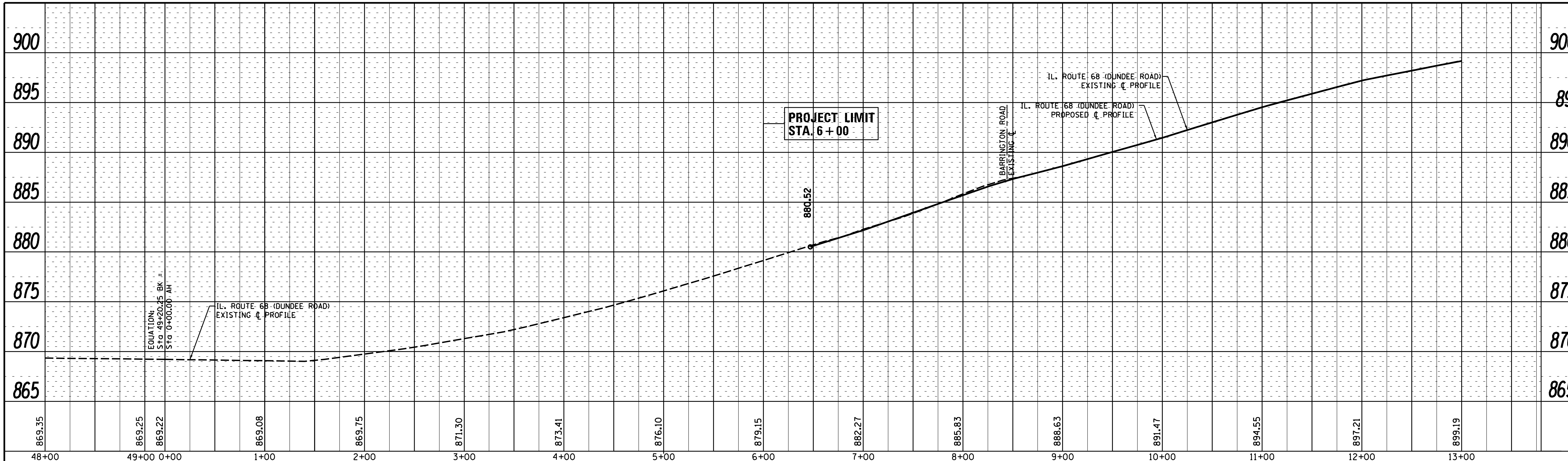
SCALE: 1"= 50' | SHEET OF SHEETS | STA. 13+00.00 TO STA. 28+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	16

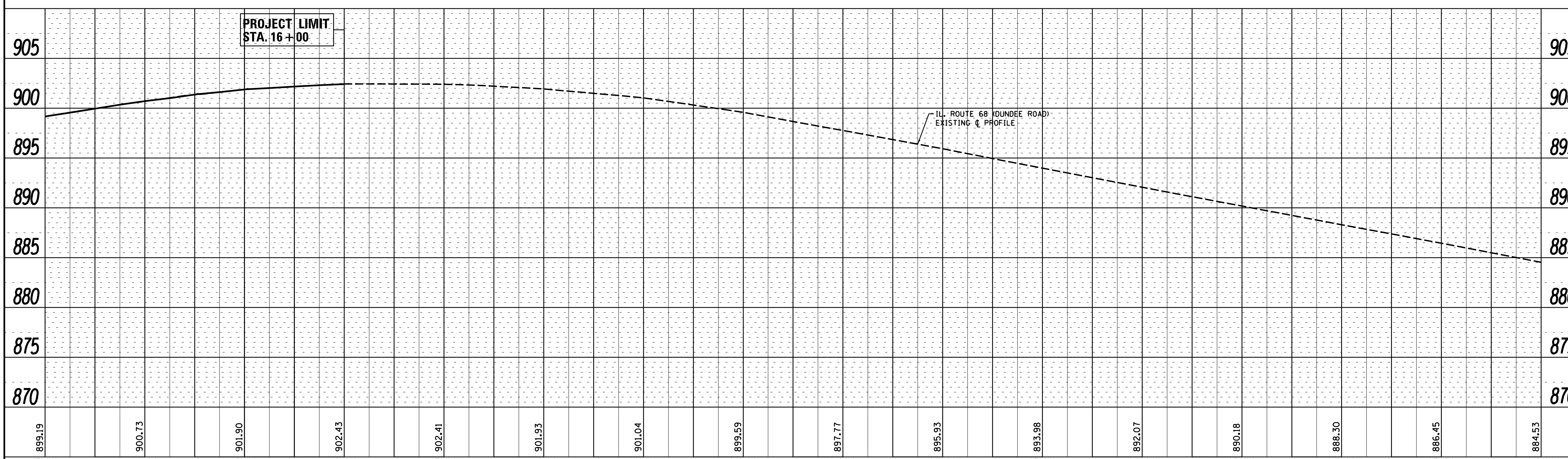
CONTRACT NO. 60T87

ILLINOIS FED. AID PROJECT

PLAN
NOTE BOOK
NO. ____
SURVEYED ____
PLOTTED ____
ALIGNMENT CHECKED ____
RT. OF WAY CHECKED ____
CADD FILE NAME ____
BY
DATE



PROFILE
NOTE BOOK
NO. ____
SURVEYED ____
PLOTTED ____
GRADES CHECKED ____
B.M. NOTED
STRUCTURE NOTAT'NS CH'KD
BY
DATE



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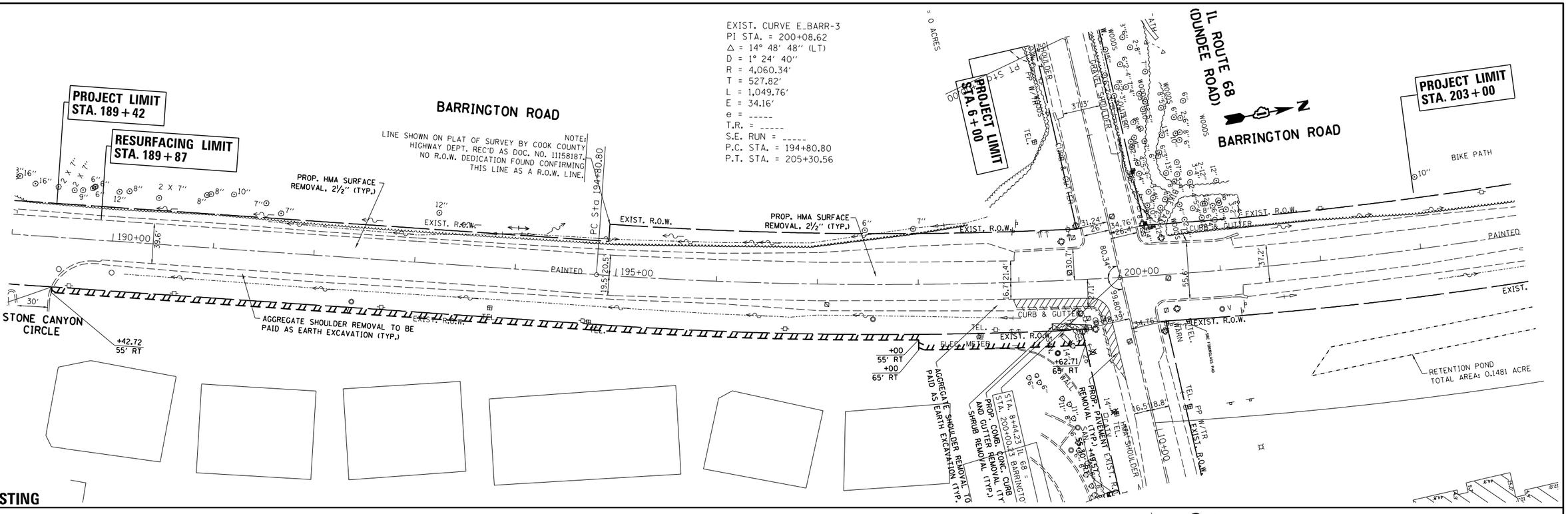
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

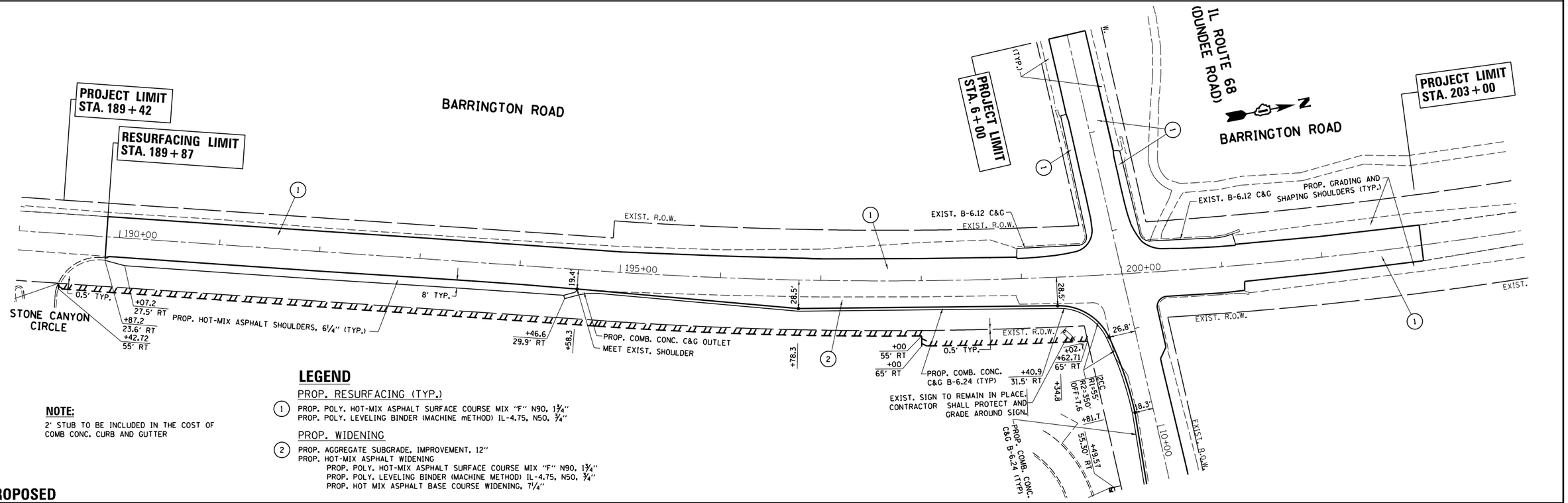
EXISTING AND PROPOSED ROADWAY PLAN
IL. ROUTE 68 AT BARRINGTON ROAD

SCALE: 1"= 50' | SHEET OF SHEETS | STA. 48+00.00 TO STA. 28+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	17
		CONTRACT NO. 60T87		
	ILLINOIS FED. AID PROJECT			



EXISTING



PROPOSED

NOTE:
2′ STUB TO BE INCLUDED IN THE COST OF COMB CONC. CURB AND GUTTER

LEGEND

PROP. RESURFACING (TYP.)

(1) PROP. POLY. HOT-MIX ASPHALT SURFACE COURSE MIX "F" N90, 1¾″
PROP. POLY. LEVELING BINDER (MACHINE METHOD) IL-4.75, N50, ¾″

PROP. WIDENING

(2) PROP. AGGREGATE SUBGRADE, IMPROVEMENT, 12″
PROP. HOT-MIX ASPHALT WIDENING
PROP. POLY. HOT-MIX ASPHALT SURFACE COURSE MIX "F" N90, 1¾″
PROP. POLY. LEVELING BINDER (MACHINE METHOD) IL-4.75, N50, ¾″
PROP. HOT MIX ASPHALT BASE COURSE WIDENING, 7¼″

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Default	PLOT DATE = 12/15/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED ROADWAY PLAN
IL. ROUTE 68 AT BARRINGTON ROAD

SCALE: 1″= 50′ | SHEET OF SHEETS | STA. 189+00.00 TO STA. 204+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	18
		CONTRACT NO. 60T87		
	ILLINOIS FED. AID PROJECT			

PLAN

SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	
NOTE BOOK	
NO.	

BY	DATE

PROFILE

SURVEYED	
PLOTTED	
PROFILE CHECKED	
R.M. NOTED	
STRUCTURE NOTATNS CHKD	
NOTE BOOK	
NO.	

BY	DATE

945 940 935 930 925 920 915 910 905 900 895 890 885 880 875 870 865 860

PROJECT LIMIT STA. 189 + 42

RESURFACING LIMIT STA. 189 + 87

IL. ROUTE 68 (QUINDEE ROAD) EXISTING ℄

PROJECT LIMIT STA. 203 + 00

BARRINGTON ROAD EXISTING ℄ PROFILE

876.27 879.02 881.43 883.48 885.32 886.81 888.08 888.92 889.50 889.63 888.51 887.32 885.08 882.63 880.08 878.03

189+00 190+00 191+00 192+00 193+00 194+00 195+00 196+00 197+00 198+00 199+00 200+00 201+00 202+00 203+00 204+00

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Default	PLOT DATE = 12/12/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED ROADWAY PLAN
IL. ROUTE 68 AT BARRINGTON ROAD

SCALE: 1"= 50' | SHEET OF SHEETS | STA. 189+00.00 TO STA. 204+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	19
		CONTRACT NO. 60T87		
		ILLINOIS FED. AID PROJECT		

PRE-STAGE

INSTALL SIGNS SHOWN ON DETAILS ''TEMPORARY INFORMATION SIGNING'' PLACE PRIOR TO THE START OF CONSTRUCTION ACTIVITY ON ILLINOIS ROUTE 68 AT BARRINGTON RD. AND AT GROVE AVE.

STAGE I

ESTABLISH TRAFFIC CONTROL AS SHOWN ON THE SUGGESTED STAGING & TRAFFIC CONTROL STAGE I. THIS WORK SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION (SPECIAL)

INSTALL TEMPORARY EROSION CONTROL MEASURE AS SHOWN ON THE EROSION CONTROL PLAN, (SEE NOTE)

PLACE THE CROSS ROAD CULVERT, PAVEMENT SHALL BE REMOVED AND REPLACED WITH CLASS ''D'' PATCH. THIS WORK SHALL BE DONE USING THE APPROPRIATE TRAFFIC CONTROL & PROTECTION STANDARD

REMOVE EXIST. HMA SHOULDER, CURB & GUTTER & AGG. SHOULDER ON NORTH SIDE OF IL 68 AND INSTALL PROP. HMA SHOULDER, BIKE PATH, HMA BASE COURSE COURSE, STORM SEWER, DITCHES SWALES, SODDING AND ALL OTHER COLLATERAL WORK AS SHOWN ON STAGE I PLANS.

STAGE II

ESTABLISH TRAFFIC CONTROL AS SHOWN ON THE SUGGESTED STAGING & TRAFFIC CONTROL STAGE II. THIS WORK SHALL BE PAID FOR AS TRAFFIC CONTROL & PROTECTION (SPECIAL)

INSTALL TEMPORARY EROSION CONTROL MEASURE AS SHOWN ON THE EROSION CONTROL PLAN, (SEE NOTE)

REMOVE EXIST. HMA SHOULDER, CURB & GUTTER & AGG. SHOULDER ON SOUTH SIDE OF IL 68 AND INSTALL PROP. HMA SHOULDER, HMA BASE COURSE COURSE WIDENING, STORM SEWER, DITCHES, SWALES, SODDING AND ALL OTHER COLLATERAL WORK AS SHOWN ON STAGE II PLANS.

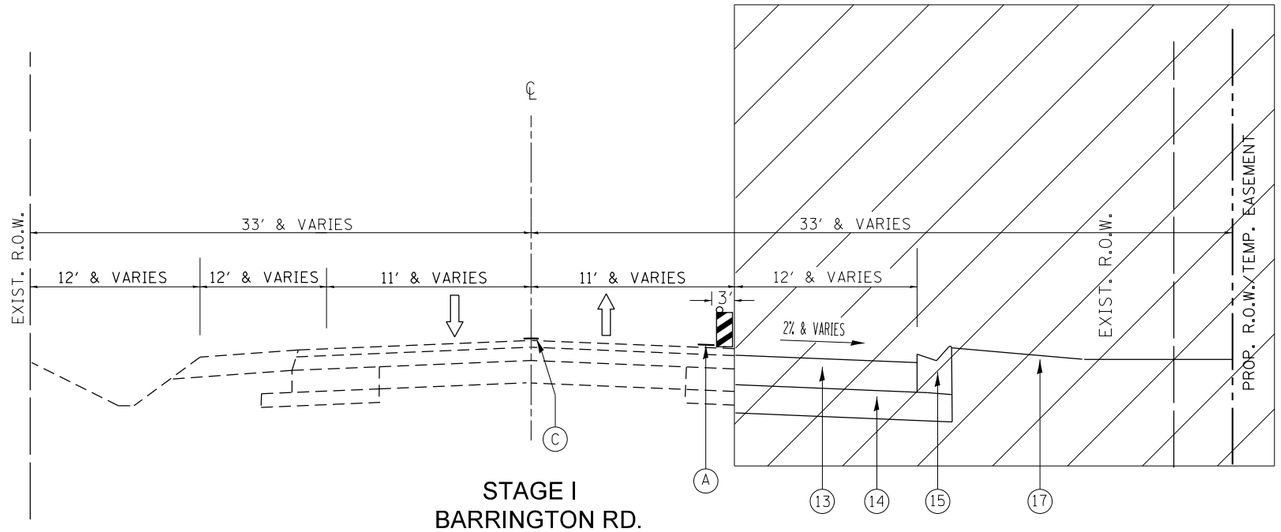
STAGE III

MILL EXSIT. PAVEMENT AND INSTALL FINAL SURFACE & BINDER (SEE LOC.) ON THE MILLED AND WIDENING AREA, INSTALL FINAL PAVEMENT MARKING, RAISED REFLECTIVE PAVEMENT MARKERS AND ALL OTHER COLLATERAL WORK AS SHOWN ON STAGE III TYPICAL SECTION.

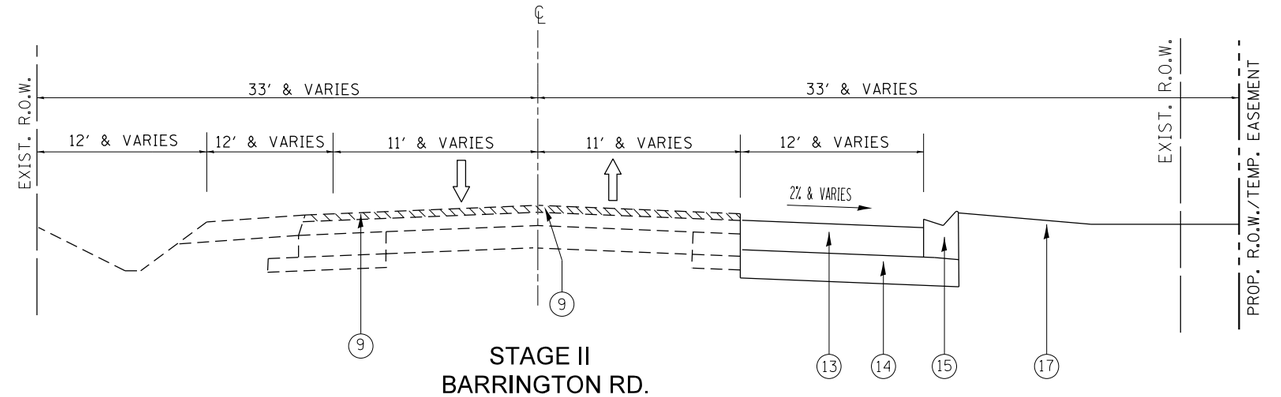
NOTE:

ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE ERODABLE CONDITION.

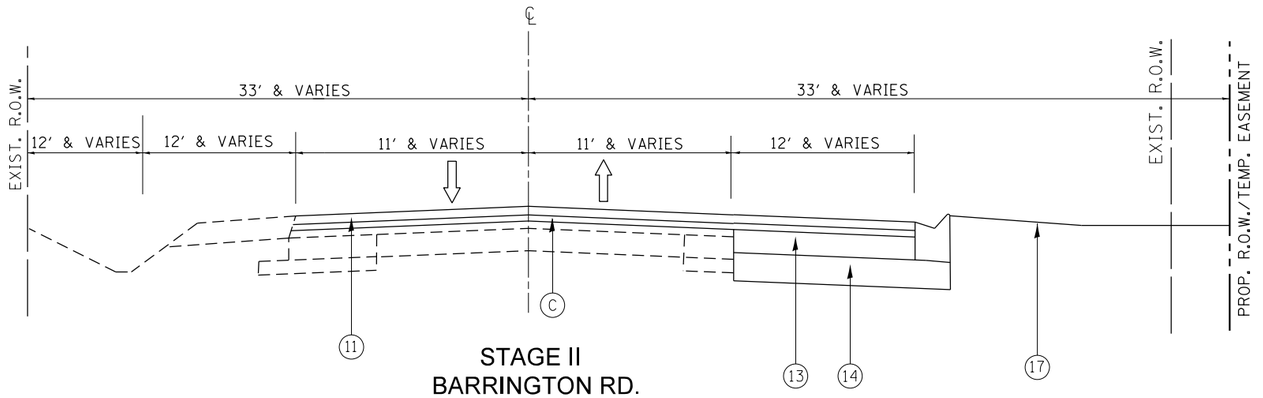
FILE NAME = P170109-Design.dgn	USER NAME = abebawa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 68 (DUNDEE RD.) AT BARRINGTON RD. CONSTRUCTION NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			343	3045N-1	COOK	63	20
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 60T87		



STAGE I
BARRINGTON RD.
Sta. 189 + 42 to Sta. 203 + 00



STAGE II
BARRINGTON RD.
Sta. 189 + 42 to Sta. 203 + 00



STAGE II
BARRINGTON RD.
Sta. 189 + 42 to Sta. 203 + 00

LEGEND

1. EXIST. P.C.C. PAVEMENT ± 10″
2. EXIST. HOT-MIX ASPHALT BASE COURSE 9″
3. EXIST. HOT-MIX ASPHALT PAVEMENT AFTER MILLING ± 5″
4. EXIST. COMBINATION CONC. CURB AND GUTTER
5. EXIST. AGGREGATE SHOULDER, TYPE A
6. EXIST. SUB-BASE GRAN. MAT., TYPE A
7. EXIST. DITCH
8. EXIST. HOT-MIX ASPHALT SHOULDER
9. PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2″
10. PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4″
11. PROP. POLYMERIZED HMA SURFACE COURSE, MIX ″F″, N90, 1 3/4″
12. PROP. GRADING AND SHAPING SHOULDERS
13. PROP. HOT-MIX ASPHALT BASE COURSE WIDENING, 7 1/4″
14. PROP. AGGREGATE SUBGRADE IMPROVEMENT, 12″
15. PROP. COMB. CONC. C&G TYPE B-6.24
16. PROP. TOP SOIL, EXCAVATION AND PLACEMENT, SEED, AND NUTIRENTS
17. PROP. HOT-MIX ASPHALT SHOULDERS, 6 1/4″
18. PROP. AGGREGATE WEDGE SHOULDERS, TYPE B
19. PROP. AGGREGATE SHOULDERS, TYPE B, 6″

PAVEMENT MARKING LEGEND

- (A) WET REFLECTIVE TEMP. TAPE , TYPE III, 4″ (WHITE)
- (B) WET REFLECTIVE TEMP. TAPE , TYPE III, 4″ (YELLOW)
- (C) WET REFLECTIVE TEMP. TAPE , TYPE III, 4″ (DOUBLE YELLOW)
- (D) WET REFLECTIVE TEMP. TAPE , TYPE III, 4″ (SKIP, YELLOW)
- (E) WET REFLECTIVE TEMP. TAPE , TYPE III, 6″ (WHITE)
- (F) WET REFLECTIVE TEMP. TAPE , TYPE III, 12″ (YELLOW)
- (G) WET REFLECTIVE TEMP. TAPE , TYPE III, 24″ (WHITE)
- (H) WET REFLECTIVE TEMP. TAPE , TYPE III, LETTERS & SYMBOLS

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		DRAWN -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 68 (DUNDEE RD.) AT BARRINGTON RD.
CONSTRUCTION TYPICAL SECTION

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	21
		CONTRACT NO. 60T87		

LEGEND

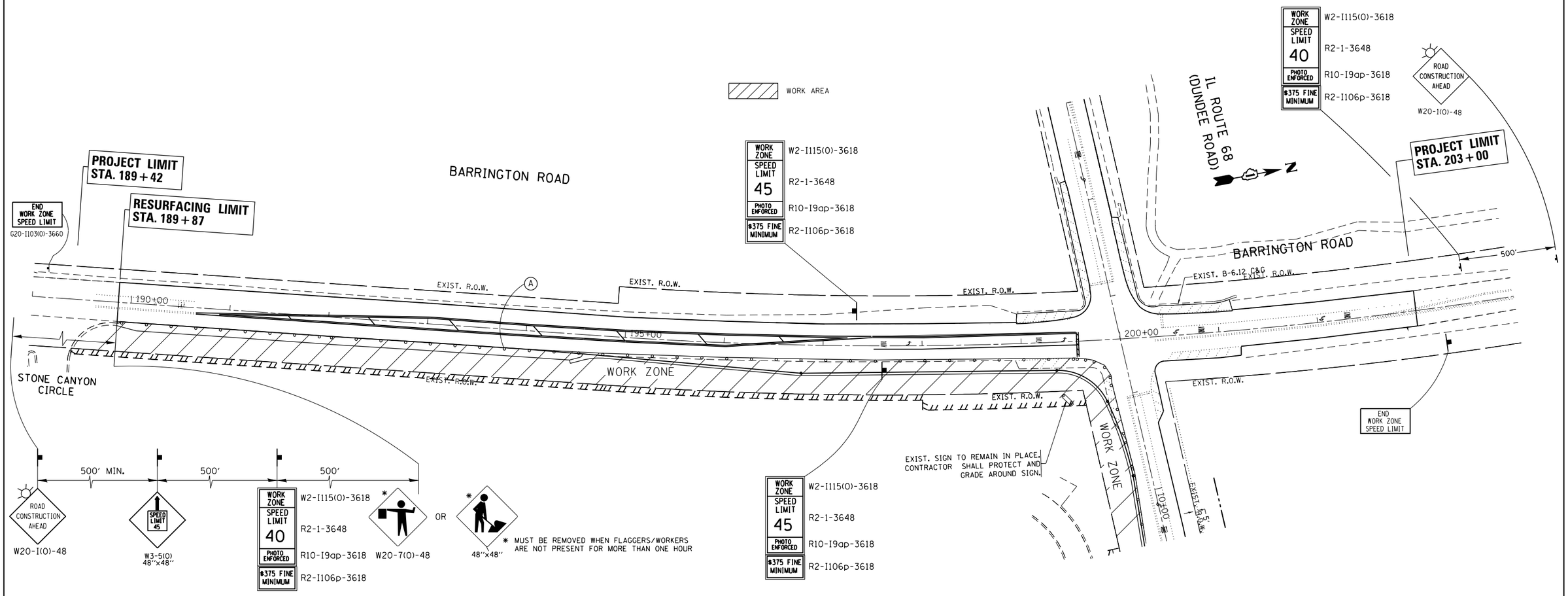
TYPE III BARRICADES WITH FLASHING LIGHTS

TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURNING LIGHTS
@ 50' C-C ON TANGENT
@ 25' C-C ON TAPERS (TYP.)
@ 15' C-C ON RADII (TYP.)

SIGN

WORK AREA

NOTE:
ALL BARRIER WALL MUST BE SEATED ON BARE CLEAN PAVEMENT



PAVEMENT MARKING LEGEND

(A) WET REFLECTIVE TEMP. TAPE , TYPE III, 4" (WHITE)
(B) WET REFLECTIVE TEMP. TAPE , TYPE III, 4" (YELLOW)
(C) WET REFLECTIVE TEMP. TAPE , TYPE III, 4" (DOUBLE YELLOW)
(D) WET REFLECTIVE TEMP. TAPE , TYPE III, 4" (SKIP, YELLOW)
(E) WET REFLECTIVE TEMP. TAPE , TYPE III, 6" (WHITE)
(F) WET REFLECTIVE TEMP. TAPE , TYPE III, 12" (YELLOW)
(G) WET REFLECTIVE TEMP. TAPE , TYPE III, 24" (WHITE)
(H) WET REFLECTIVE TEMP. TAPE , TYPE III, LETTERS & SYMBOLS

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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/12/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 68 AT BARRINGTON RD. AND AT GROVE AVE.
CONSTRUCTION STAGE I

SCALE: 1"= 50' | SHEET NO. OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	22
		CONTRACT NO. 60T87		
	ILLINOIS	FED. AID PROJECT		

LEGEND

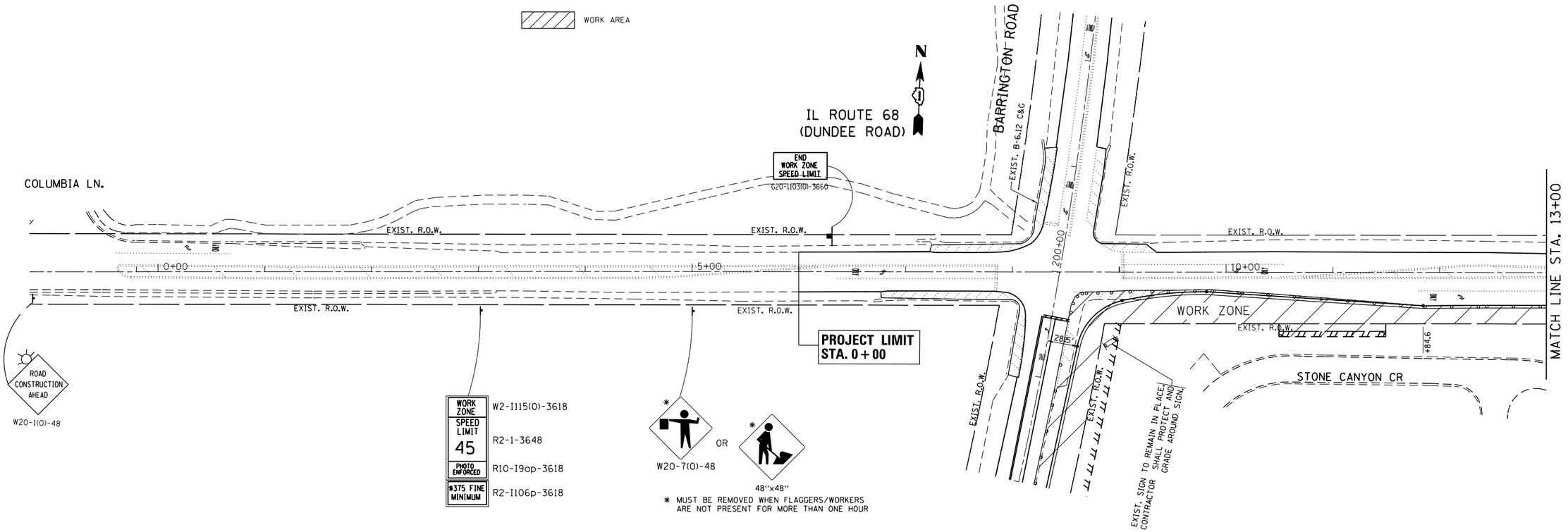
TYPE III BARRICADES WITH FLASHING LIGHTS

TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURNING LIGHTS
- @ 50' C-C ON TANGENT
- @ 25' C-C ON TAPERS (TYP.)
- @ 15' C-C ON RADII (TYP.)

SIGN

WORK AREA

NOTE:
ALL BARRIER WALL MUST BE SEATED ON BARE CLEAN PAVEMENT



* MUST BE REMOVED WHEN FLAGGERS/WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR

PAVEMENT MARKING LEGEND

- (A) WET REFLECTIVE TEMP. TAPE , TYPE III, 4" (WHITE)
- (B) WET REFLECTIVE TEMP. TAPE , TYPE III, 4" (YELLOW)
- (C) WET REFLECTIVE TEMP. TAPE , TYPE III, 4" (DOUBLE YELLOW)
- (D) WET REFLECTIVE TEMP. TAPE , TYPE III, 4" (SKIP, YELLOW)
- (E) WET REFLECTIVE TEMP. TAPE , TYPE III, 6" (WHITE)
- (F) WET REFLECTIVE TEMP. TAPE , TYPE III, 12" (YELLOW)
- (G) WET REFLECTIVE TEMP. TAPE , TYPE III, 24" (WHITE)
- (H) WET REFLECTIVE TEMP. TAPE , TYPE III, LETTERS & SYMBOLS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 68 AT BARRINGTON RD. AND AT GROVE AVE.
CONSTRUCTION STAGE I

SCALE: 1"= 50' | SHEET NO. OF SHEETS

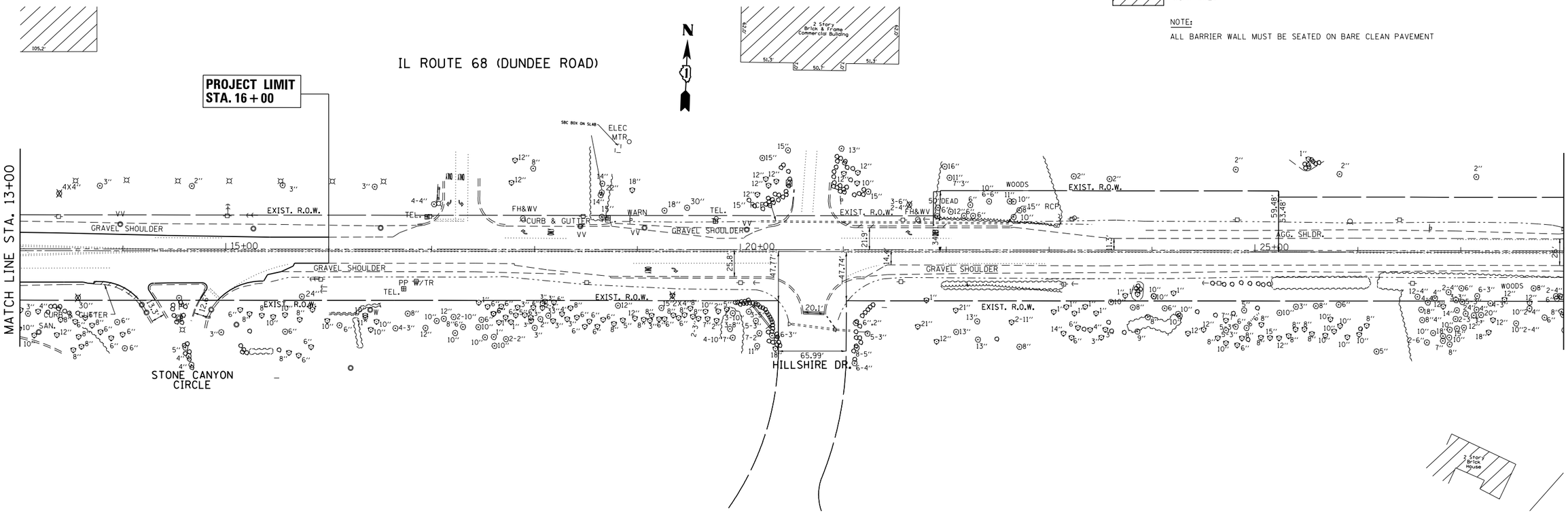
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	23
		CONTRACT NO. 60T87		
	ILLINOIS FED. AID PROJECT			

LEGEND

- TYPE III BARRICADES WITH FLASHING LIGHTS
- TYPE II BARRICADES OR DRUMS WITH BI-DIRECTIONAL STEADY BURNING LIGHTS
  - @ 50' C-C ON TANGENT
  - @ 25' C-C ON TAPERS (TYP.)
  - @ 15' C-C ON RADII (TYP.)
- SIGN

WORK AREA

NOTE:
ALL BARRIER WALL MUST BE SEATED ON BARE CLEAN PAVEMENT



PAVEMENT MARKING LEGEND

- (A) WET REFLECTIVE TEMP. TAPE , TYPE III, 4'' (WHITE)
- (B) WET REFLECTIVE TEMP. TAPE , TYPE III, 4'' (YELLOW)
- (C) WET REFLECTIVE TEMP. TAPE , TYPE III, 4'' (DOUBLE YELLOW)
- (D) WET REFLECTIVE TEMP. TAPE , TYPE III, 4'' (SKIP, YELLOW)
- (E) WET REFLECTIVE TEMP. TAPE , TYPE III, 6'' (WHITE)
- (F) WET REFLECTIVE TEMP. TAPE , TYPE III, 12'' (YELLOW)
- (G) WET REFLECTIVE TEMP. TAPE , TYPE III, 24'' (WHITE)
- (H) WET REFLECTIVE TEMP. TAPE , TYPE III, LETTERS & SYMBOLS

FILE NAME = P170109-Design.dgn	USER NAME = abebawa	DESIGNED -	REVISED -
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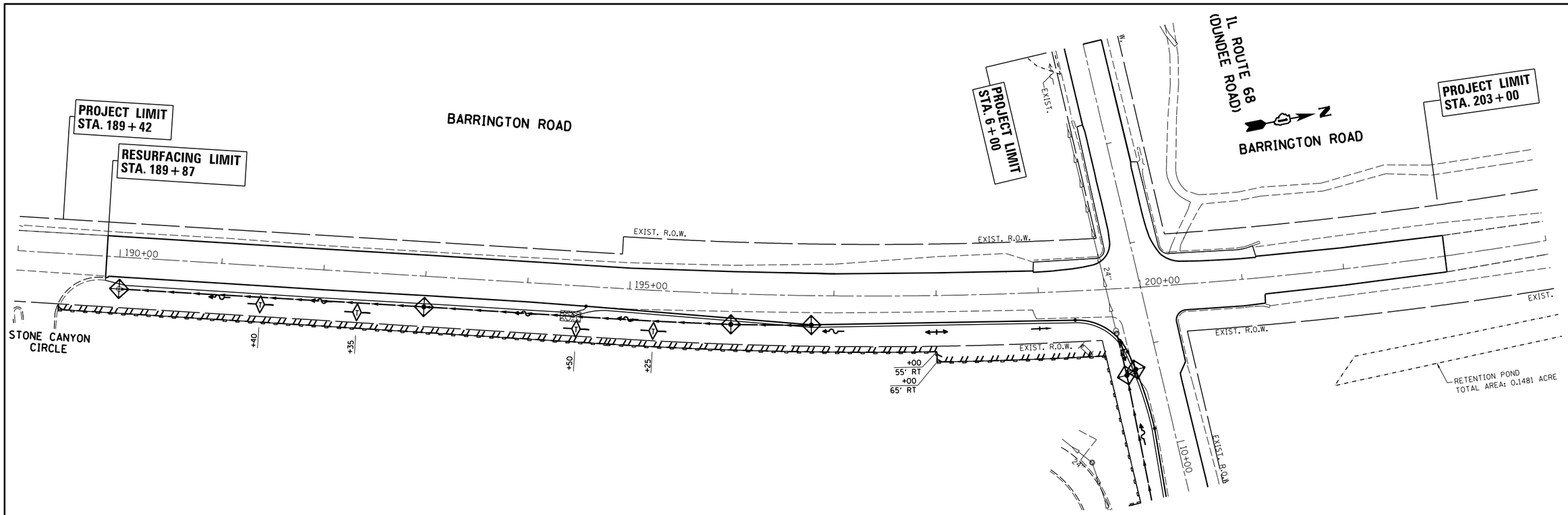
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/12/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 68 AT BARRINGTON RD. AND AT GROVE AVE.
CONSTRUCTION STAGE I

SCALE: 1''= 50' | SHEET NO. OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	24
		CONTRACT NO. 60T87		
		ILLINOIS	FED. AID PROJECT	



1. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL CHECK ALL ESC MEASURES WEEKLY AND AFTER EACH RAINFALL. 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
3. ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION ISPECTION (http://www.idot.illinois.gov/transportation-system/environment/erosion-and-sediment-control) AND IDOT'S BEST MANAGEMENT PRACTICES - MAINTENANCE GUIDE: (http://www.idot.illinois.gov/transportation-system/environment/erosion-and-sediment-control)
4. THE CONTRACTOR SHOULD PROVIDE TO THE RE A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THIS IS IMPORTANT WHERE NEW STORM SEWER CONNECTS TO EXISTING CULVERTS. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.
5. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCIDENTAL.
6. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OF DISTURBANCE OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR 14 DAYS OR MORE.

LEGEND

- PERIMETER EROSION BARRIER
- INLET FILERS
- TEMPORARY DITCH CHECK

NOTES

1. TEMPORARY EROSION CONTROL SEEDING TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS, REFER TO SPECIAL PROVISIONS.
2. THE CONTRACTORS SHALL PROVIDE & MAINTAIN INLET PROTECTION AT ALL PROPOSED DRAINAGE STRUCTURES AND AT OTHER LOCATIONS DIRECTED BY THE ENGINEER AND/OR SHOWN ON THE PLANS. INLET PROTECTION SHALL BE PLACED BEFORE 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 STANDARDS SPECIFICATION AND OF THE APPLICABLE STATE STANDARDS FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH A TIME AS DIRECTED BY THE ENGINEER.
4. AT ANY AREA WHERE THERE IS NO PROPOSED GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
5. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE ENGINEER WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATIONS NECESSARY TO ASSUME THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES WHICH WILL POTENTIALLY CREATE ERODABLE CONDITIONS.
6. THE EROSION CONTROL MEASURES SHOWN ARE BUT A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES, DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING JOBSITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
7. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN SEDIMENT CONTROL MEASURES PRIOR TO STRIPPING EXISTING VEGITATION.

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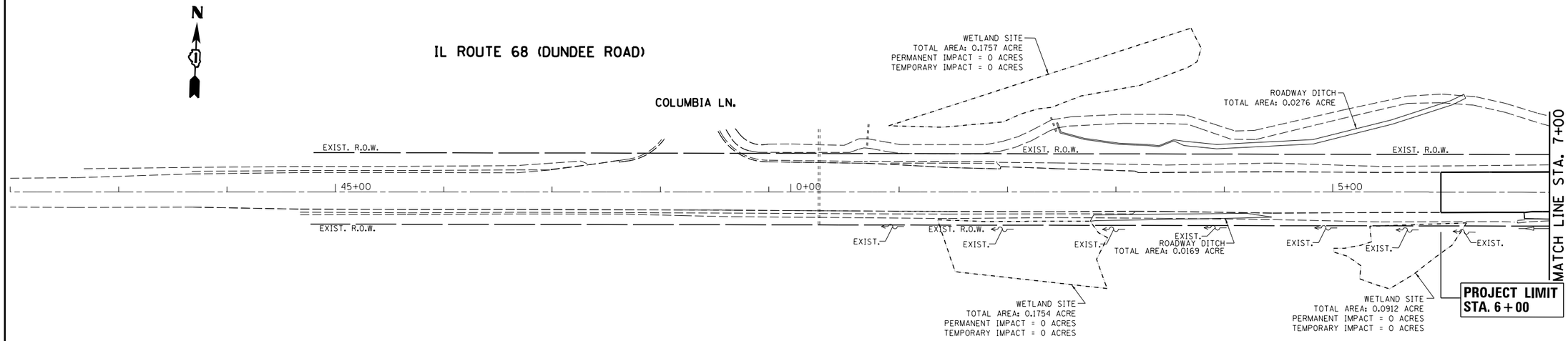
Default	PLOT DATE = 12/12/2014	DATE -	REVISED -

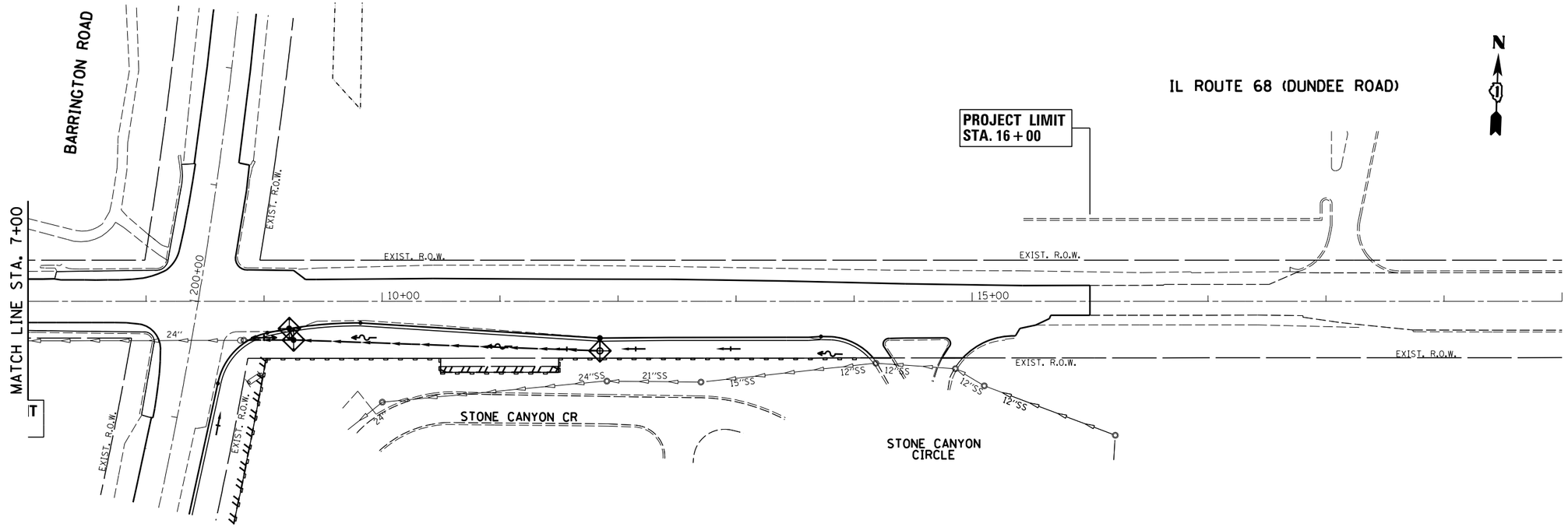
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN
IL. ROUTE 68 AT BARRINGTON ROAD

SCALE: 1"= 50' | SHEET OF SHEETS | STA. 189+00.00 TO STA. 216+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	25
		CONTRACT NO. 60T87		
	ILLINOIS	FED. AID PROJECT		





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Default	PLOT DATE = 12/12/2014	DATE -	REVISED -

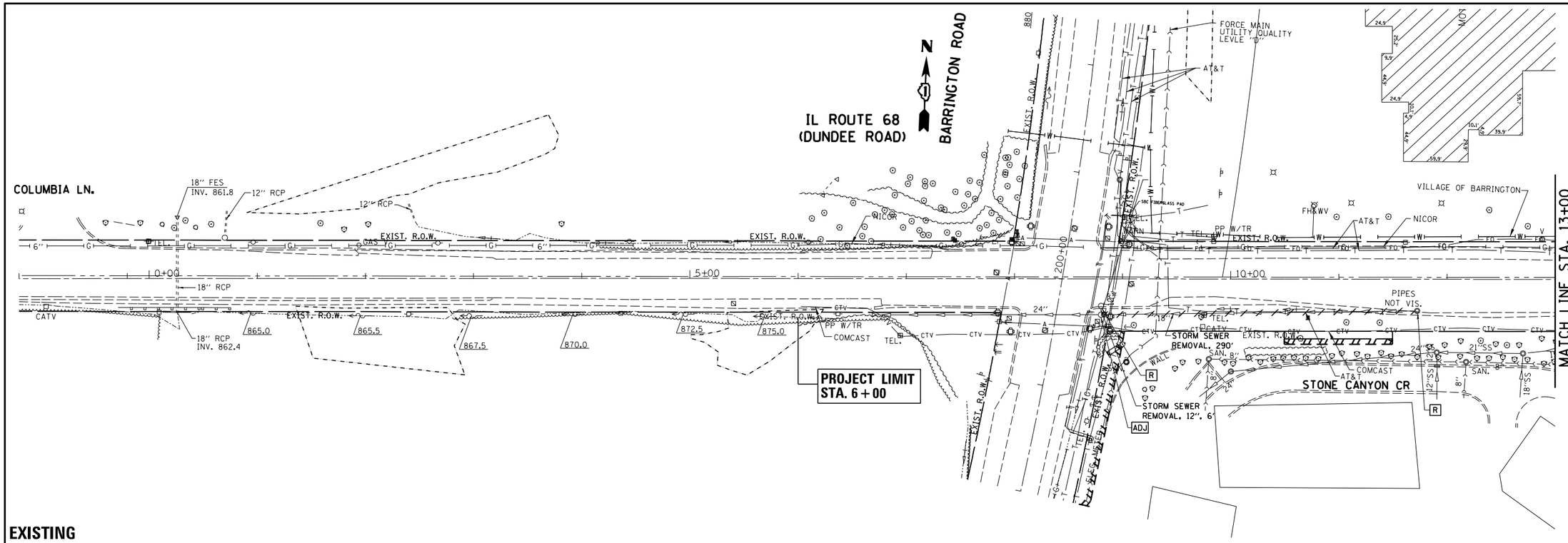
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN
IL. ROUTE 68 AT BARRINGTON ROAD

SCALE: 1"= 50' | SHEET OF SHEETS | STA. 42+00.00 | TO STA. 20+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	26
		CONTRACT NO. 60T87		
	ILLINOIS	FED. AID PROJECT		

EXISTING



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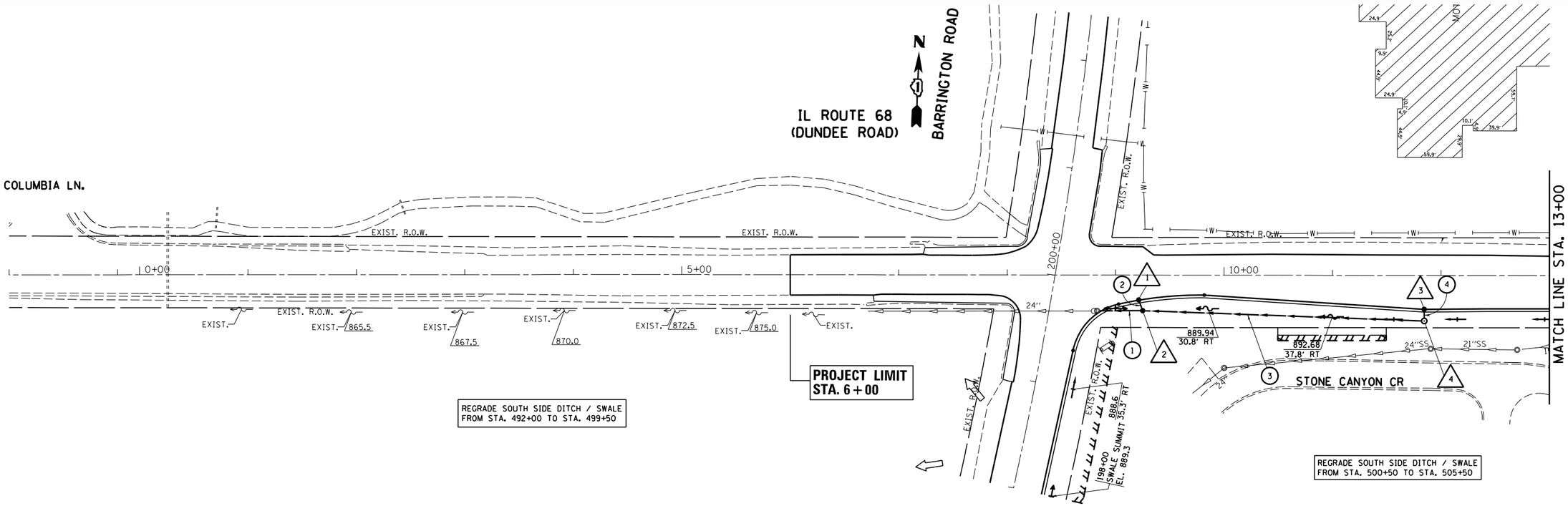

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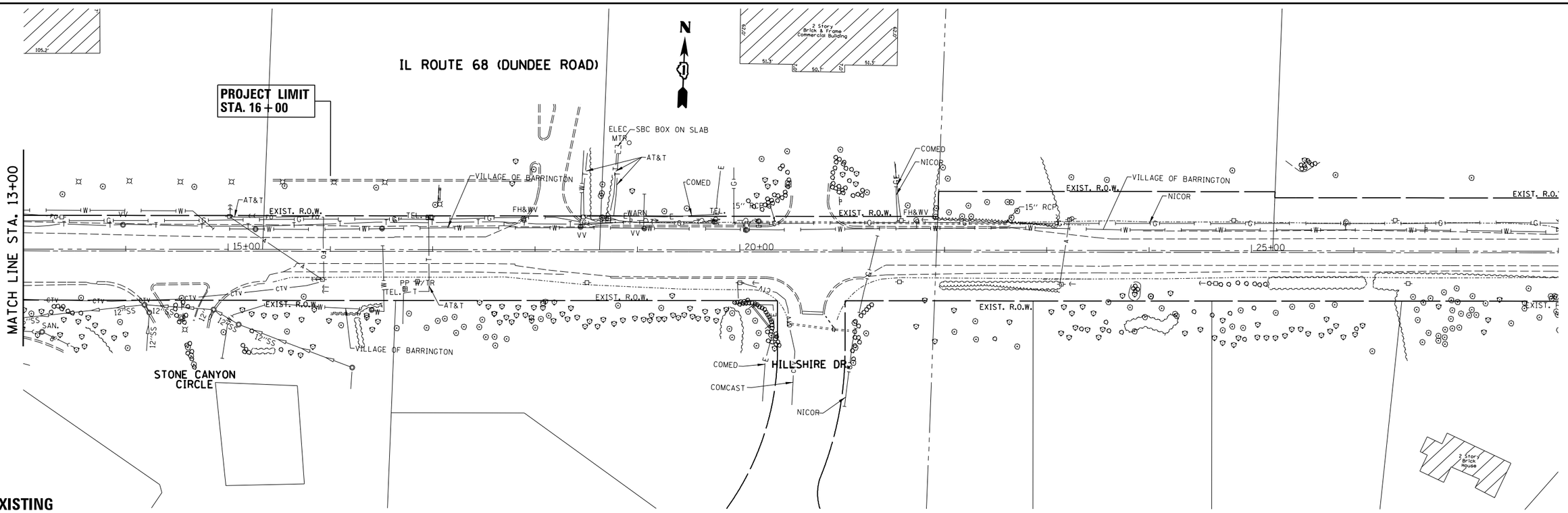
Default	PLOT DATE = 12/12/2014	DATE -	REVISED -

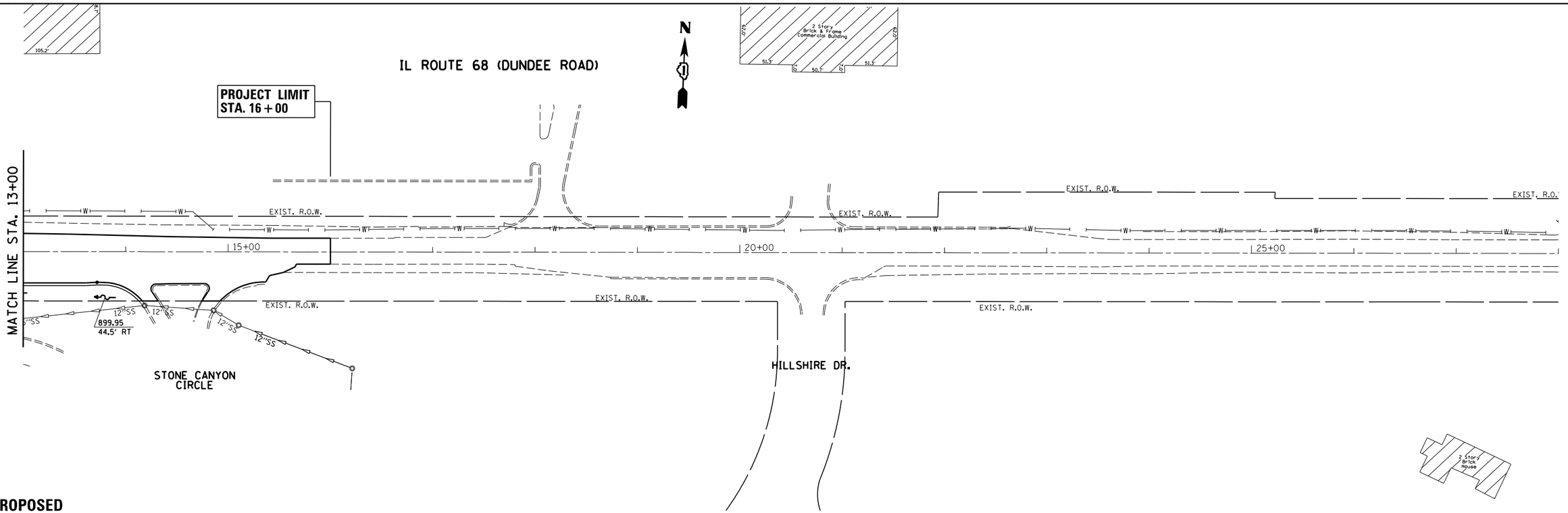
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED DRAINAGE PLAN
IL. ROUTE 68 AT BARRINGTON ROAD

SCALE: 1"= 50' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	27
		CONTRACT NO. 60T87		
	ILLINOIS FED. AID PROJECT			





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Default	PLOT DATE = 12/12/2014	DATE -	REVISED -

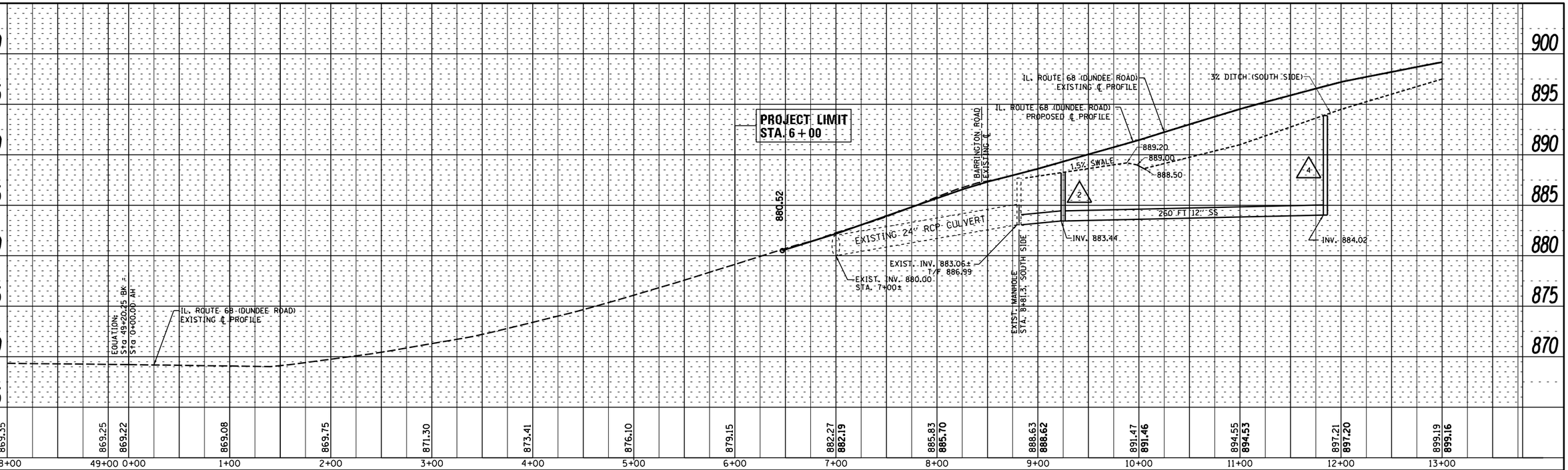
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED DRAINAGE PLAN
IL. ROUTE 68 AT BARRINGTON ROAD

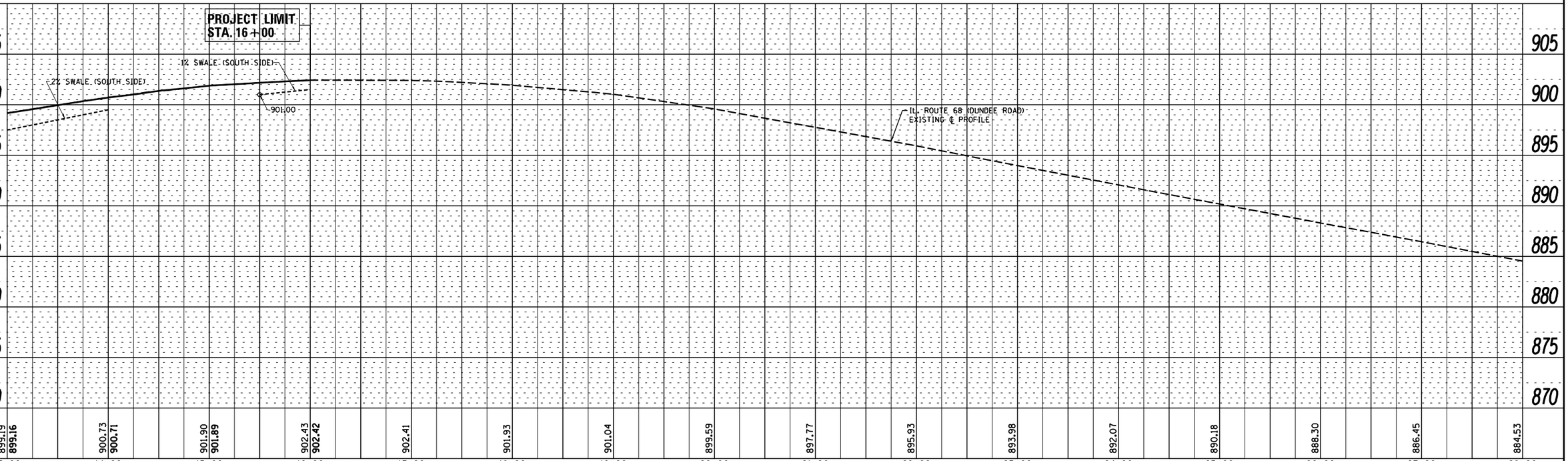
SCALE: 1"= 50' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	28
		CONTRACT NO. 60T87		
		ILLINOIS FED. AID PROJECT		

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE



PROFILE
SURVEYED
PLOTTED
PROFILE CHECKED
NOTE BOOK
NO.
BY
DATE
R.M. NOTED
STRUCTURE NOTATNS CHKD



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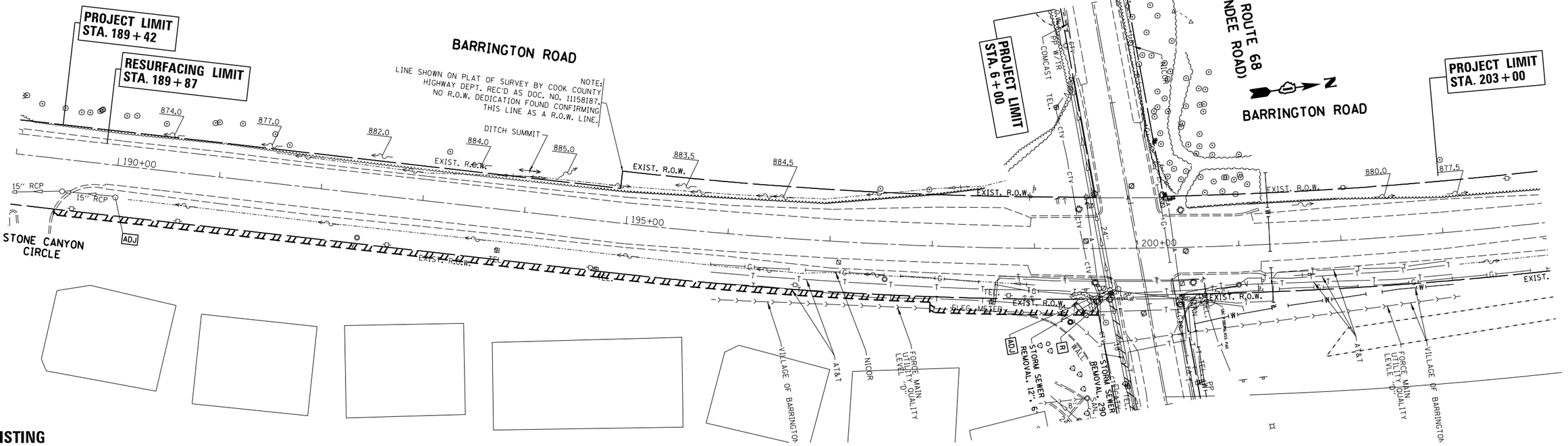
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED DRAINAGE PROFILE
IL. ROUTE 68 AT BARRINGTON ROAD

SCALE: 1"= 50' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	29
		CONTRACT NO. 60T87		
		ILLINOIS FED. AID PROJECT		



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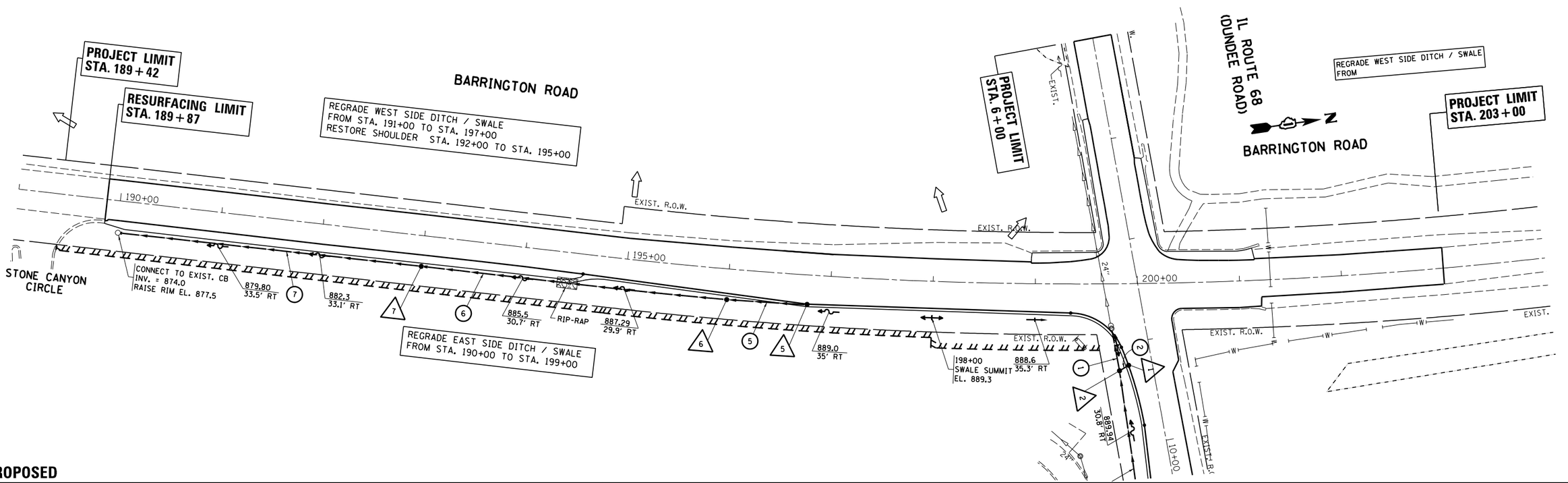

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED DRAINAGE PLAN
IL. ROUTE 68 AT BARRINGTON ROAD

SCALE: 1"= 50' | SHEET OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	30
		CONTRACT NO. 60T87		
		ILLINOIS FED. AID PROJECT		

PLAN

SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	
NOTE BOOK	
NO.	

BY	DATE

PROFILE

SURVEYED	
PLOTTED	
PROFILE CHECKED	
R.M. NOTED	
STRUCTURE NOTATNS CHKD	
NOTE BOOK	
NO.	

BY	DATE

945 940 935 930 925 920 915 910 905 900 895 890 885 880 875 870 865 860

PROJECT LIMIT STA. 189 + 42

RESURFACING LIMIT STA. 189 + 87

IL. ROUTE 68 (QUNDEE ROAD) EXISTING ℄

PROJECT LIMIT STA. 203 + 00

BARRINGTON ROAD EXISTING ℄ PROFILE

876.27 879.02 881.43 883.48 885.32 886.81 888.08 888.92 889.50 889.63 888.51 887.32 885.08 882.63 880.08 878.03

189+00 190+00 191+00 192+00 193+00 194+00 195+00 196+00 197+00 198+00 199+00 200+00 201+00 202+00 203+00 204+00

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Default	PLOT DATE = 12/12/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED DRAINAGE PLAN
IL. ROUTE 68 AT BARRINGTON ROAD

SCALE: 1"= 50' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	31
		CONTRACT NO. 60T87		
		ILLINOIS FED. AID PROJECT		

PIPE TABLE

No.	PIPE TYPE	Dia. (inch)	TBF (cu yds)	Length (ft)
1	PROPOSED STORM SEWER, CLASS A, TYPE II	15	0	45
2	PROPOSED STORM SEWER, CLASS A, TYPE II	12	0	10
3	PROPOSED STORM SEWER, CLASS A, TYPE II	12	0	260
4	PROPOSED STORM SEWER, CLASS A, TYPE II	12	0	10
5	PROPOSED STORM SEWER, CLASS A, TYPE II	12	17	79
6	PROPOSED STORM SEWER, CLASS A, TYPE II	12	0	300
7	PROPOSED STORM SEWER, CLASS A, TYPE II	12	0	300

△1
STA. 9+22, RT. EOP
CATCH BASIN, TYPE C
W/ TYPE 24 FRAME & GRATE
T.O.G: 889.0
INV: 885.0 (S)

△2
STA. 9+25, 32.8 FT RT.
CATCH BASIN, TYPE A, 4 FT DIA.
W/ TYPE 8 GRATE
T.O.G: 887.95
INV: 883.44 (W)
INV: 883.44 (E)
INV: 884.80 (N)

△3
STA. 11+84.5, LT. EOP
CATCH BASIN, TYPE C
W/ TYPE 24 FRAME & GRATE
T.O.G: TO BE DETERMINED IN THE FIELD
INV: 884.52 (S)

△4
STA. 11+84.5, 42 FT RT.
MANHOLE, TYPE A, 4 FT DIA.
W/ TYPE 8 GRATE
T.O.G: 894.8
INV: 884.02 (W)
INV: 884.02 (N)

△5
STA. 196+78, RT. EOP
CATCH BASIN, TYPE C
W/ TYPE 24 FRAME & GRATE
T.O.G: 889.30
INV: 885.0 (S)

△6
STA. 196+00, 30 RT. EOP
CATCH BASIN, TYPE A, 4 FT DIA.
W/ TYPE 8 GRATE
T.O.G: 888.5
INV: 884.0 (S)
INV: 884.0 (N)

△7
STA. 193+00, 30 RT. EOP
CATCH BASIN, TYPE A, 4 FT DIA.
W/ TYPE 8 GRATE
T.O.G: 884.0
INV: 879.9 (S)
INV: 879.9 (N)

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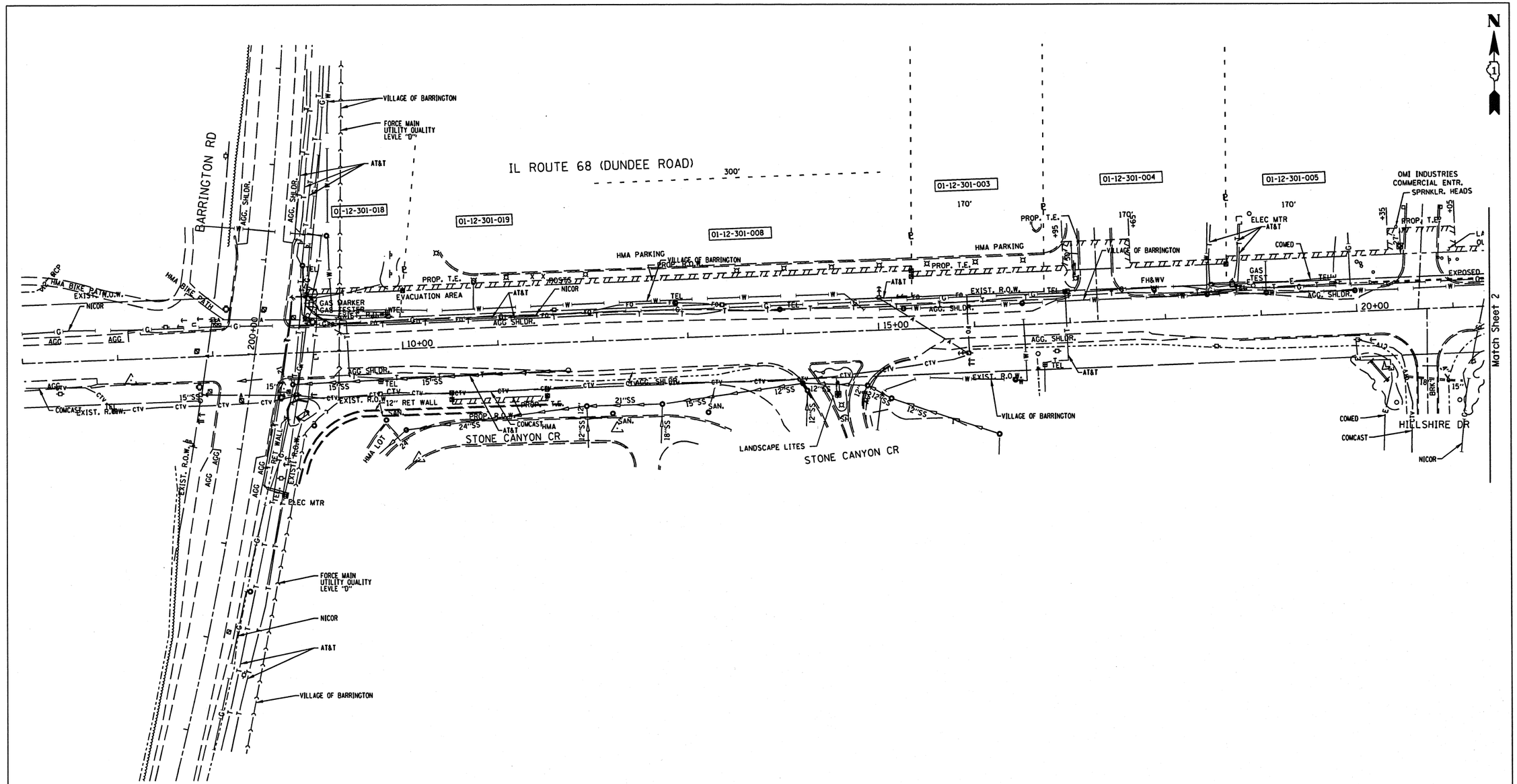
		DRAWN	REVISED -
	PLOT SCALE = 100.0001 ' / in.	CHECKED	REVISED -
	PLOT DATE = 12/12/2014	DATE	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED PIPE AND STRUCTURE TABLES
IL. ROUTE 68 AT BARRINGTON RD.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	32
		CONTRACT NO. 60T87		
	ILLINOIS FED. AID PROJECT			



A — A —	AERIAL UTILITY
	UNKNOWN
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 = TELEPHONE
COMCAST = CATV
At&T = FIBER OPTIC
COMED = ELECTRIC
NICOR = GAS
VILLAGE OF BARRINGTON = WATER
VILLAGE OF BARRINGTON = FORCE MAIN

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 from 11/21/11 through 12/20/11. Changes to utilities after 12/20/11 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.

20 0 METERS 20 40
50 0 FEET 50 100

Cardno TBE
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING

TBE Job No. IL09510455
SUE Plan Page: 1 of 2

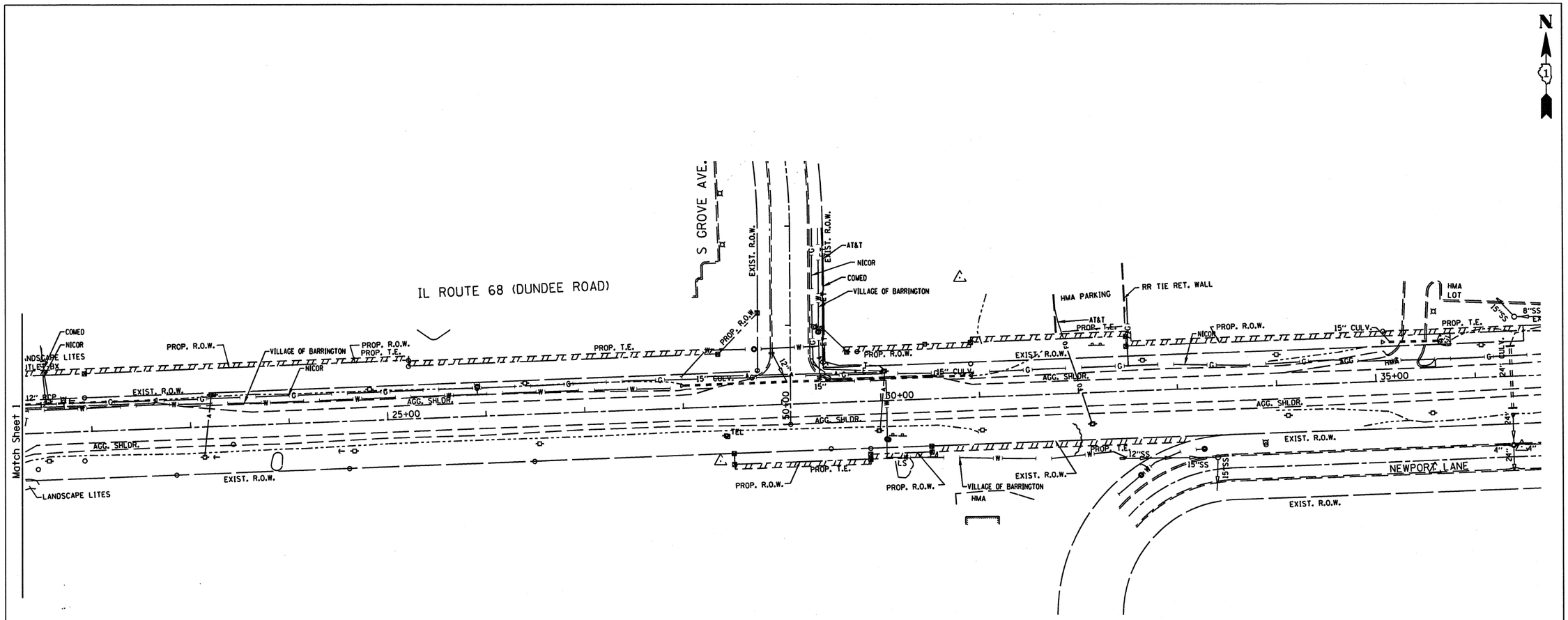
Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/Test Holes not Visually Verified
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	EJ	REVISED
DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	1/03/12	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RT. 68 at Grove Avenue in Inverness/Barrington

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	3045N	Cook	63	33
		Contract No. 60T87		
FED. ROAD DIST. NO.	ILLINOIS	IDOT Project No.		



A — A	AERIAL UTILITY
	UNKNOWN
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 = TELEPHONE
COMCAST = CATV
At&T = FIBER OPTIC
COMED = ELECTRIC
NICOR = GAS
VILLAGE OF BARRINGTON = WATER
VILLAGE OF BARRINGTON = FORCE MAIN

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 from 11/21/11 through 12/20/11. Changes to utilities after 12/20/11 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.

20 0 METERS 20 40
50 0 FEET 50 100

Cardno TBE
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING

TBE Job No. IL09510455
SUE Plan Page: 2 of 2

Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/Test Holes not Visually Verified
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

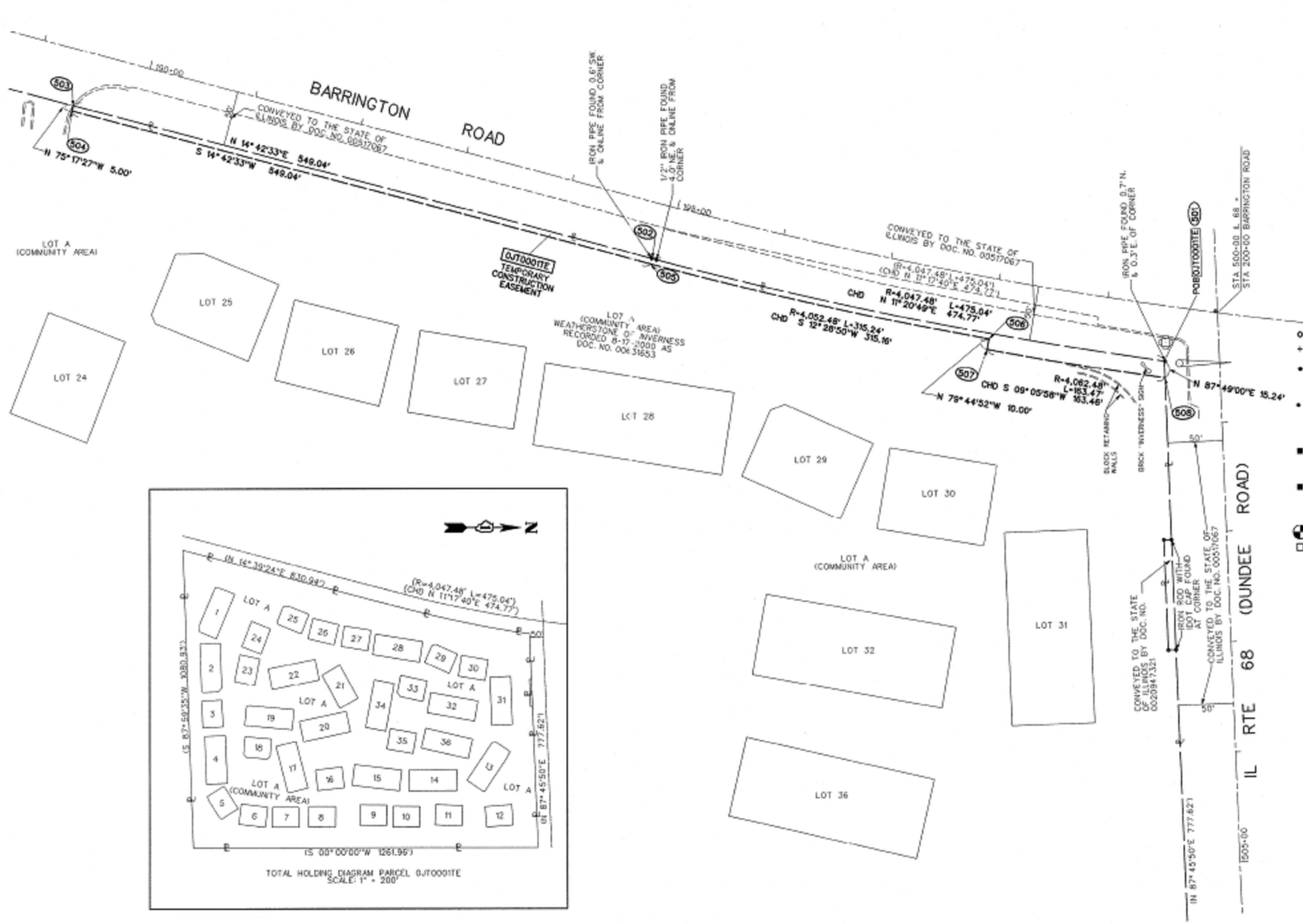
DESIGNED	EJ	REVISED
DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	1/03/12	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RT. 68 at Grove Avenue in Inverness/Barrington

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	3045N	Cook	68	34
		Contract No. 60T87		
FED. ROAD DIST. NO.	ILLINOIS	IDOT Project No.		

PART OF THE SW 1/4 OF SECTION 12, TWP. 42 N., R. 9 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	
0JT0001TE	18.422 ACS.	N.A.	N.A.	18.422 ACS.	0.155 ACS.	6748	01-12-303-043

POINT NUMBER	NORTHING	EASTING	STATION	OFFSET
501	1989514.941132	1037804.394109	199+58.21	50.00' RT.
502	1989049.455385	1037710.984607	194+89.04	50.00' RT.
503	1988518.410602	1037571.576518	189+40.00	50.00' RT.
504	1988517.141037	1037576.412654	189+40.00	55.00' RT.
505	1989048.185819	1037715.820742	194+89.04	55.00' RT.
506	1989355.898757	1037783.930281	198+00.00	55.00' RT.
507	1989354.118945	1037793.770620	198+00.00	65.00' RT.
508	1989515.521702	1037819.621486	199+60.86	65.00' RT.

LEGEND

SECTION CORNER
QUARTER SECTION CORNER

SECTION / QUARTER SECTION LINE
PLATTED LOT LINE
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING EASEMENT
PROPOSED EASEMENT
EXISTING ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL LINE
129.32' MEASURED DIMENSION
129.32' (COMP) COMPUTED DIMENSION
(129.32') RECORDED DIMENSION
▨ EXISTING BUILDING

GRAPHIC SCALE FEET 0 50
SCALE: 1" = 50 FEET

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE.

○ IRON PIPE OR ROD FOUND ⊕ "MAG" NAIL SET
\+ CUT CROSS FOUND OR SET ● 5/8" REBAR SET

● T1 T2 T3 **THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.** SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

● BT1 BT2 BT3 **THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.** BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

■ **STAKING OF PROPOSED RIGHT OF WAY.** SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M **STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.** BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
)SS
COUNTY OF DUPAGE)

THIS IS TO CERTIFY THAT I, TIMOTHY G. WOLFE, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, (WE, JACOB & HEFNER ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-003073,) HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN PART OF THE SW 1/4 OF SECTION 12, TOWNSHIP 42 NORTH, RANGE 9 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS; 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 LOMBARD, ILLINOIS THIS 25TH DAY OF APRIL, 2013 A.D.

Timothy G Wolfe

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-003535
LICENSE EXPIRATION DATE: NOVEMBER 30, 2014

TIMOTHY G WOLFE 35-003535 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS Renewable 11-30-14 LOMBARD

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

JACOB & HEFNER ASSOCIATES, INC.
ENGINEERS · SURVEYORS
1910 S. Highland Avenue, Suite 100
Lombard, IL. 60148
(630) 652-4600

IDOT USE ONLY

GS
RECEIVED
NOV 18 2013
PLATS & LEGALS

PLAT OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
BARRINGTON ROAD

LIMITS: COUNTY: COOK
SECTION: AT DUNDEE ROAD JOB NO.: R-90-023-11
STA. 189+40.00 TO STA. 199+60.86
SCALE: 1" = 50' SHEET 2 OF 2 SHEETS

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

REVISION DATE: 09/11/13
REVISION DATE: 08/05/13
REVISION DATE: 07/25/13
REVISION MADE BY:

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	DRAWN	REVISED -
PLOT SCALE = 100.0001 ' / in.	CHECKED	REVISED -
PLOT DATE = 12/12/2014	DATE	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

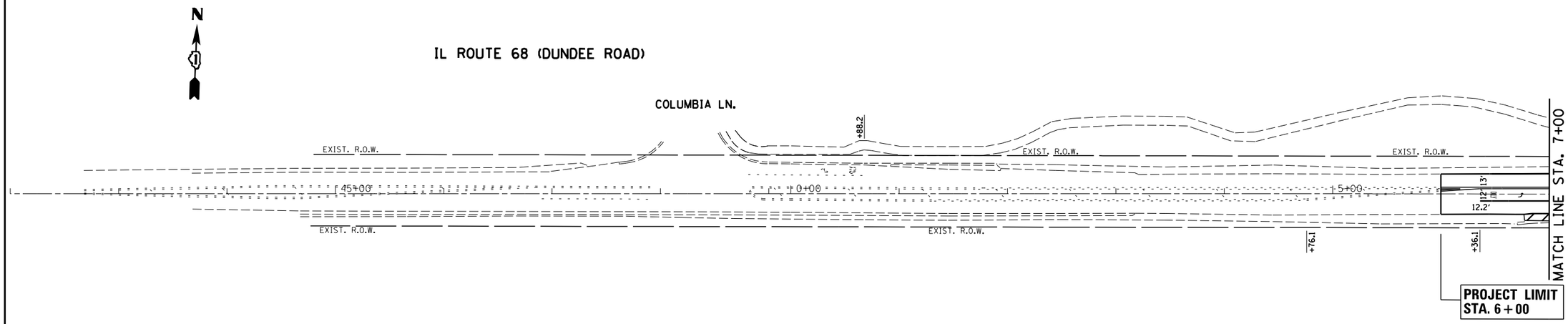
RIGHT-OF-WAY SHEETS
IL. ROUTE 68 AT GROVE AVENUE

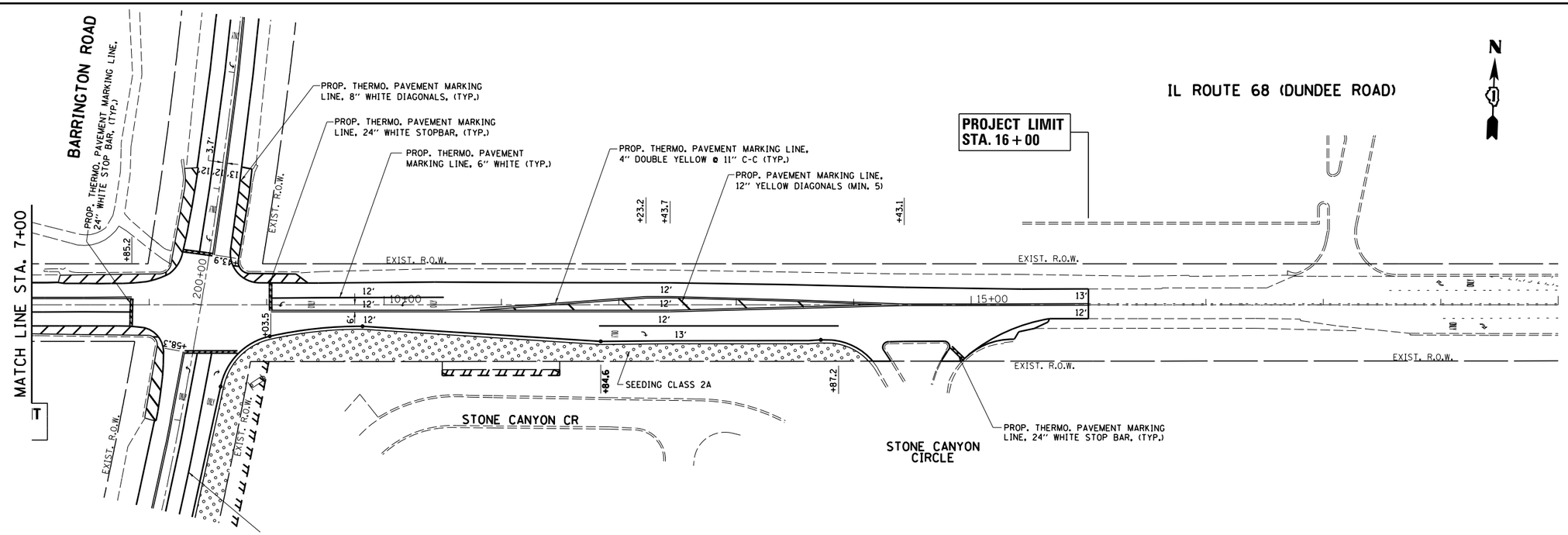
SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	35

CONTRACT NO. 60T87

ILLINOIS FED. AID PROJECT





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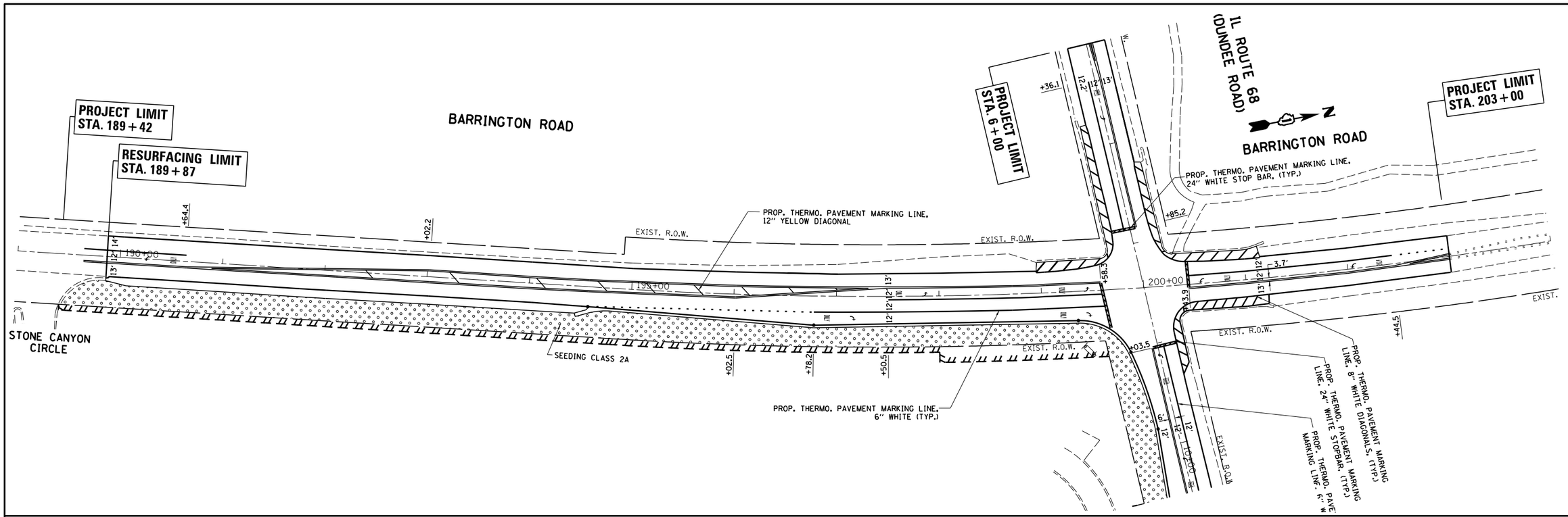
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING & LANDSCAPING PLAN
IL. ROUTE 68 AT BARRINGTON ROAD

SCALE: 1"= 50' | SHEET OF SHEETS | STA. 42+00.00 TO STA. 20+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	36
		CONTRACT NO. 60T87		
	ILLINOIS FED. AID PROJECT			



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Default	PLOT DATE = 12/12/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING & LANDSCAPING PLAN
IL. ROUTE 68 AT BARRINGTON ROAD

SCALE: 1"= 50' | SHEET OF SHEETS | STA. 189+00.00 TO STA. 216+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	37
		CONTRACT NO. 60T87		
	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R		
RAILROAD CONTROL CABINET		R	R
COMMUNICATIONS CABINET	R CC	ECC	CC
MASTER CONTROLLER		EMC	MC
MASTER MASTER CONTROLLER		EMMC	MMC
UNINTERRUPTABLE POWER SUPPLY	R UPS	EUPS	UPS
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	R	P	P
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R T	P T	P T
STEEL MAST ARM ASSEMBLY AND POLE	R		
ALUMINUM MAST ARM ASSEMBLY AND POLE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTZ	PTZ	PTZ
SIGNAL POST	R		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	R		
GUY WIRE	R		
SIGNAL HEAD	R		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			2
SIGNAL HEAD WITH BACKPLATE	R		
SIGNAL HEAD OPTICALLY PROGRAMMED	R "P"	"P"	"P"
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R "F"	"F"	"F"
PEDESTRIAN SIGNAL HEAD	R		
PEDESTRIAN PUSHBUTTON DETECTOR	R		
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	APS	APS
ILLUMINATED SIGN "NO LEFT TURN"	R		
ILLUMINATED SIGN "NO RIGHT TURN"	R		
DETECTOR LOOP, TYPE I			
PREFORMED DETECTOR LOOP		P	P
MICROWAVE VEHICLE SENSOR	R M	M	M
VIDEO DETECTION CAMERA	R V	V	V
VIDEO DETECTION ZONE			
PAN, TILT, ZOOM CAMERA	R PTZ	PTZ	PTZ
WIRELESS DETECTOR SENSOR	R W	W	W
WIRELESS ACCESS POINT	R		

ITEM	REMOVAL	EXISTING	PROPOSED
EMERGENCY VEHICLE LIGHT DETECTOR	R		
CONFIRMATION BEACON	R		
HANDHOLE	R		
HEAVY DUTY HANDHOLE	R H	H	H
DOUBLE HANDHOLE	R		
JUNCTION BOX	R		
UNDERGROUND CONDUIT, GALVANIZED STEEL (UC)			
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R		
COMMON TRENCH			CT
COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC
SYSTEM ITEM		S	S
INTERSECTION ITEM		I	IP
REMOVE ITEM	R		
RELOCATE ITEM	RL		
ABANDON ITEM	A		
12" (300mm) TRAFFIC SIGNAL SECTION		R	R
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R Y G	
SIGNAL FACE		R Y G ◄Y ◄G	R Y G ◄Y ◄G
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD. "RB" INDICATES REFLECTIVE BACKPLATE		R Y G ◄Y ◄G "P"	R Y G ◄Y ◄G "P"
12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		DW W	
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED			
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			
PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C D	C D
RADIO INTERCONNECT	R		
RADIO REPEATER	R ERR	ERR	RR
DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		5	5
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	1

ITEM	REMOVAL	EXISTING	PROPOSED
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		J	J
COAXIAL CABLE		C	C
VENDOR CABLE FOR CAMERA		V	V
COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		6	6
FIBER OPTIC CABLE NO. 62.5/125, MM12F		12F	
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		24F	24F
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM24F		36F	36F
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		C	C
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL POST AND FOUNDATION TO BE REMOVED	RPF		
INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SAMPLING (SYSTEM) DETECTOR		S	S
QUEUE DETECTOR		Q	Q
PREFORMED QUEUE DETECTOR		PQ	PQ
PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS

RAILROAD SYMBOLS

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

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PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 9/9/2014 9:15:54 AM
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USER NAME = tyelton	DESIGNED - DAG/BCK	REVISED - DAG 1-1-14
	DRAWN - BCK	REVISED -
PLOT SCALE = NA	CHECKED - DAD	REVISED -
PLOT DATE = 9/9/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NA | SHEET NO. 1 OF 8 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	38
		CONTRACT NO.	60T87	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

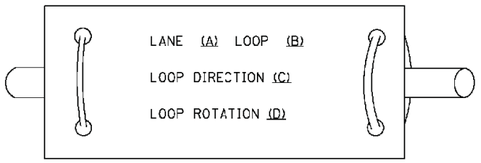
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

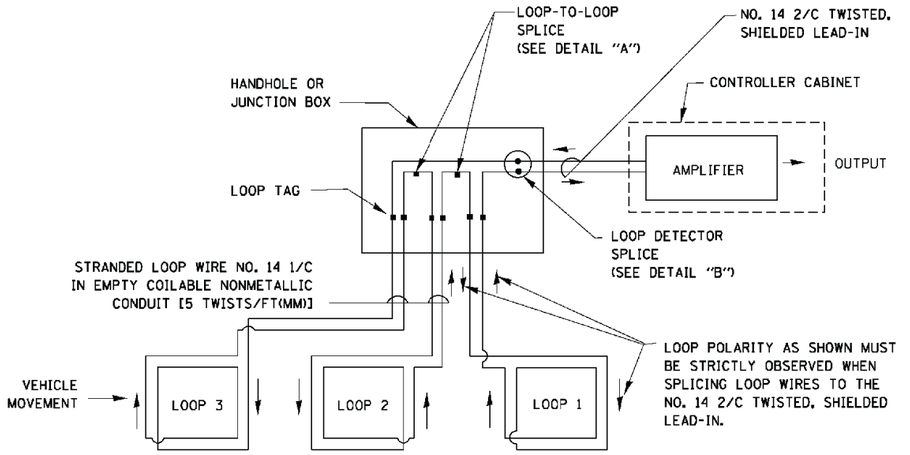


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

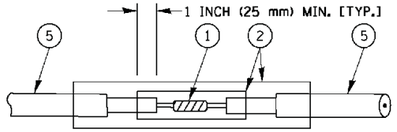
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

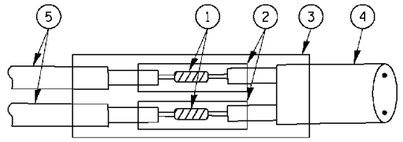


DETECTOR LOOP WIRING SCHEMATIC

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

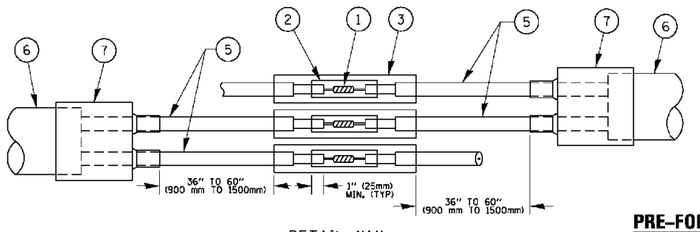


DETAIL "A"
LOOP-TO-LOOP SPLICE



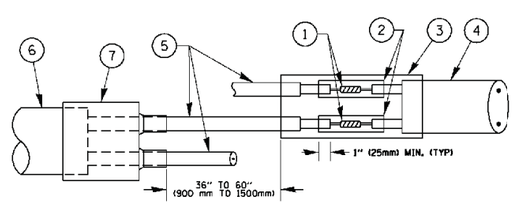
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

(1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.

(2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.

(3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

(7) XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 9/9/2014 9:16:01 AM
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USER NAME = tyelton	DESIGNED - DAD	REVISED - DAG 1-1-14
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PLOT SCALE = NA	CHECKED - DAD	REVISED -
PLOT DATE = 9/9/2014	DATE - 10/28/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

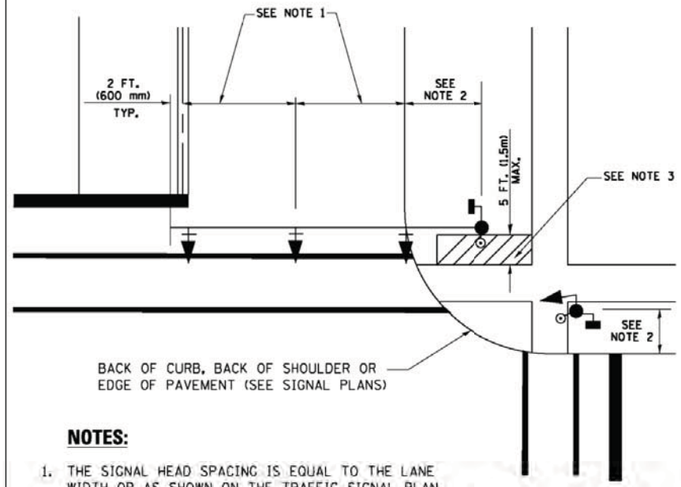
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NA | SHEET NO. 2 OF 8 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	39
		CONTRACT NO.	60T87	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

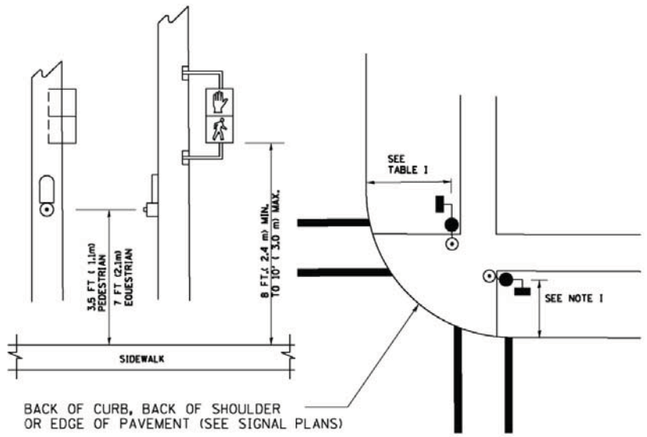
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

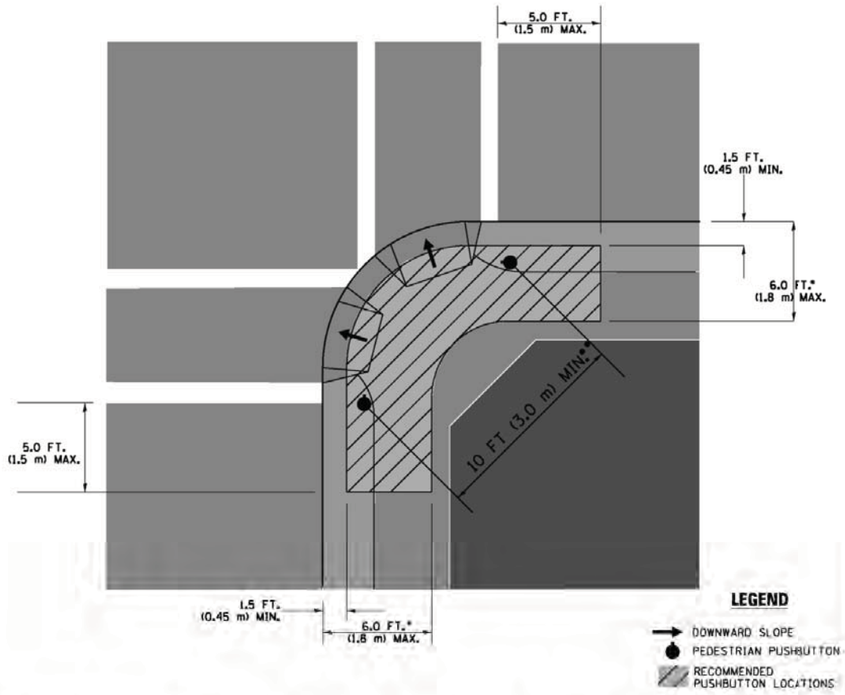
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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



* WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

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

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TOTHE 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.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NA | SHEET NO. 3 OF 8 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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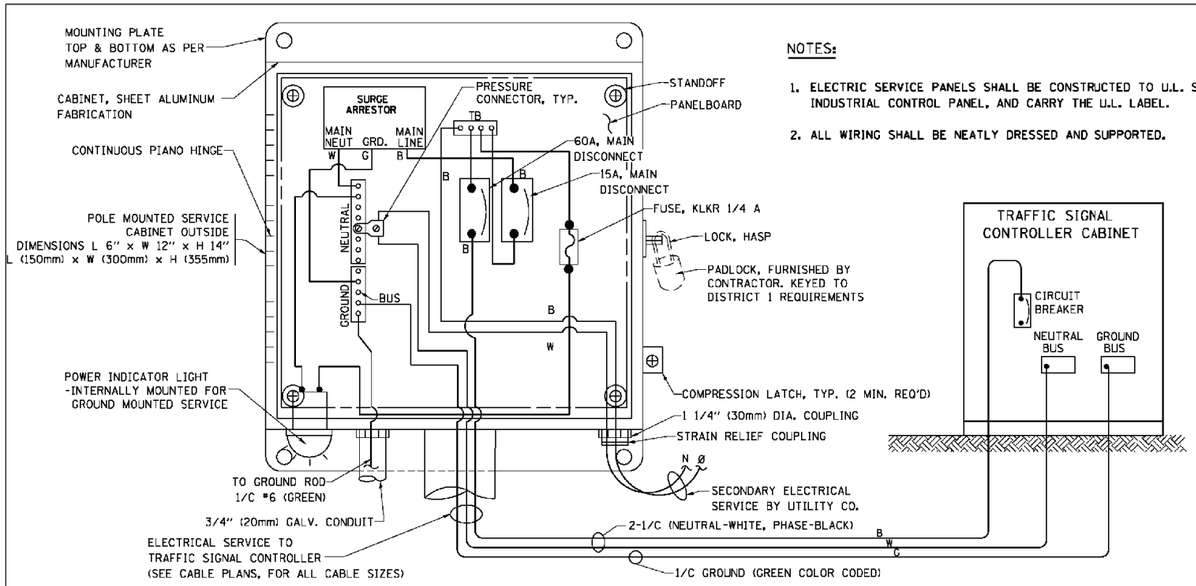
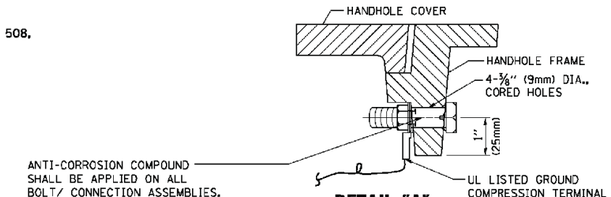
		CONTRACT NO. 60T87		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



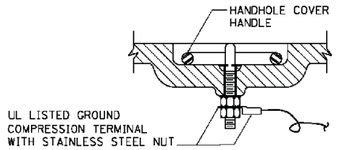
NOTES:

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

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



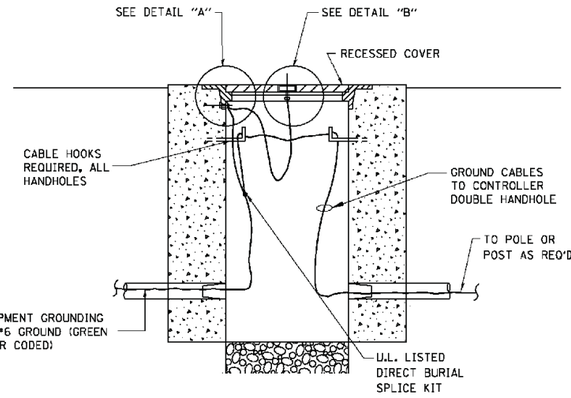
DETAIL "A"



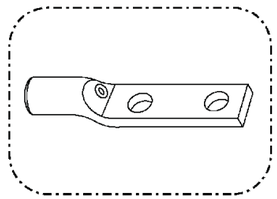
DETAIL "B"

NOTES:
GROUNDING SYSTEM

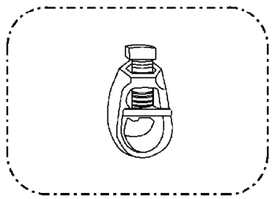
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE,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



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



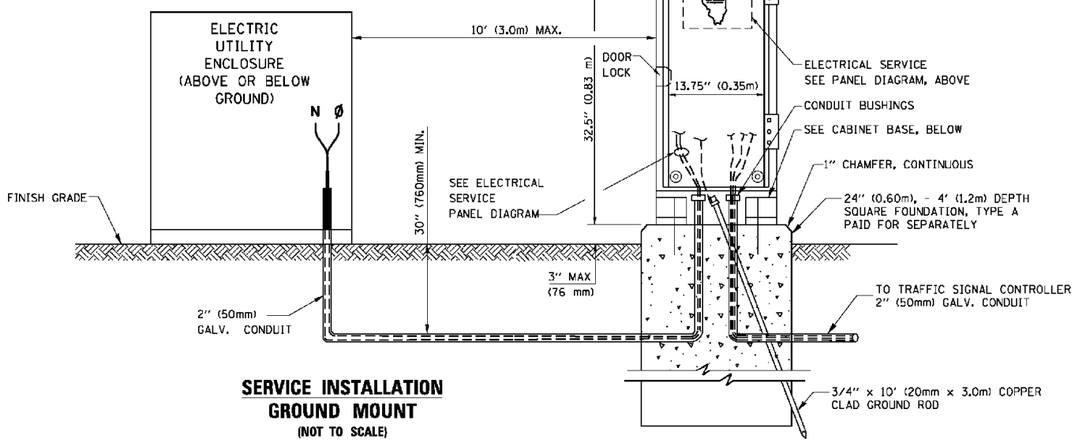
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



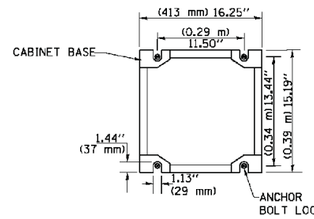
¾" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

NOTES:

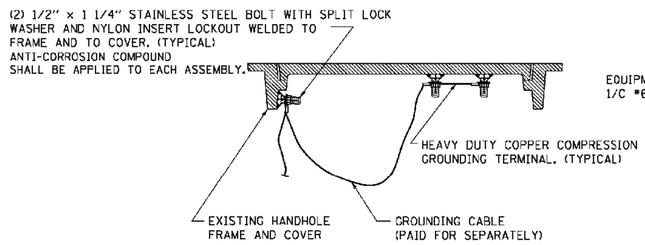
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
  6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
  13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
  5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



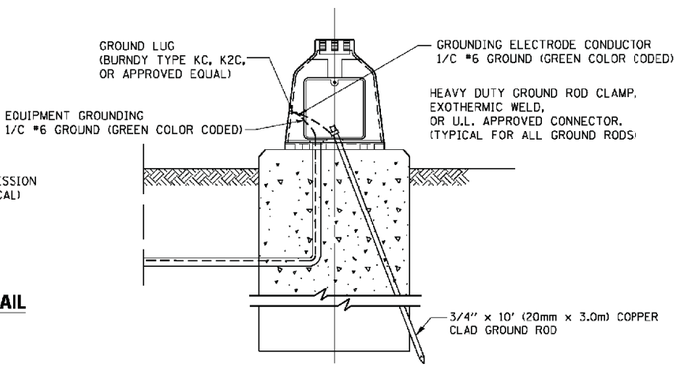
SERVICE INSTALLATION GROUND MOUNT
(NOT TO SCALE)



CABINET – BASE BOLT PATTERN
(NOT TO SCALE)



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



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

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PROJECT CONTACT:
CLIENT:
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NA | SHEET NO. 4 OF 8 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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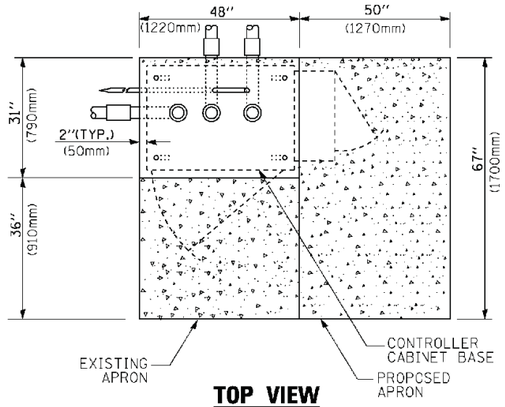
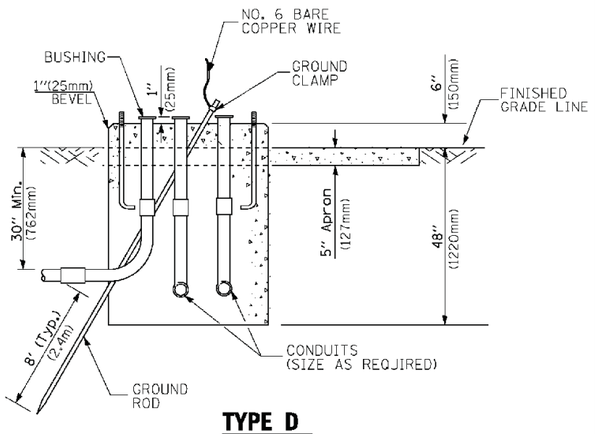
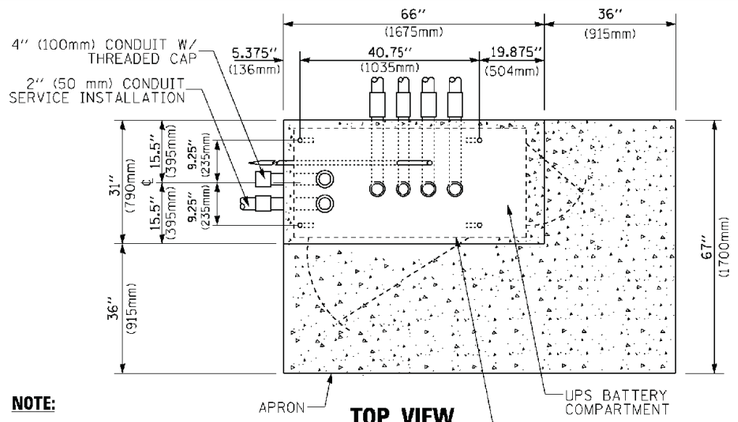


TOP VIEW



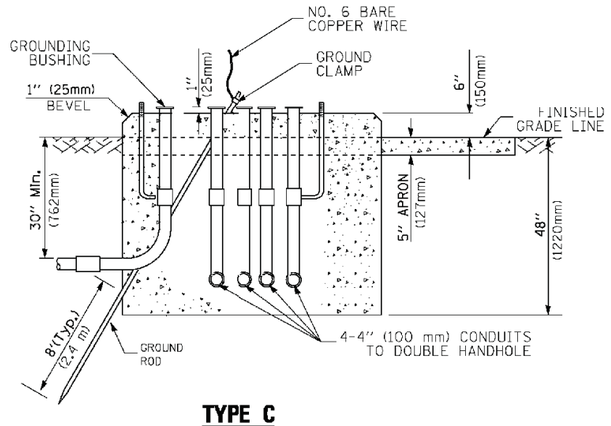
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



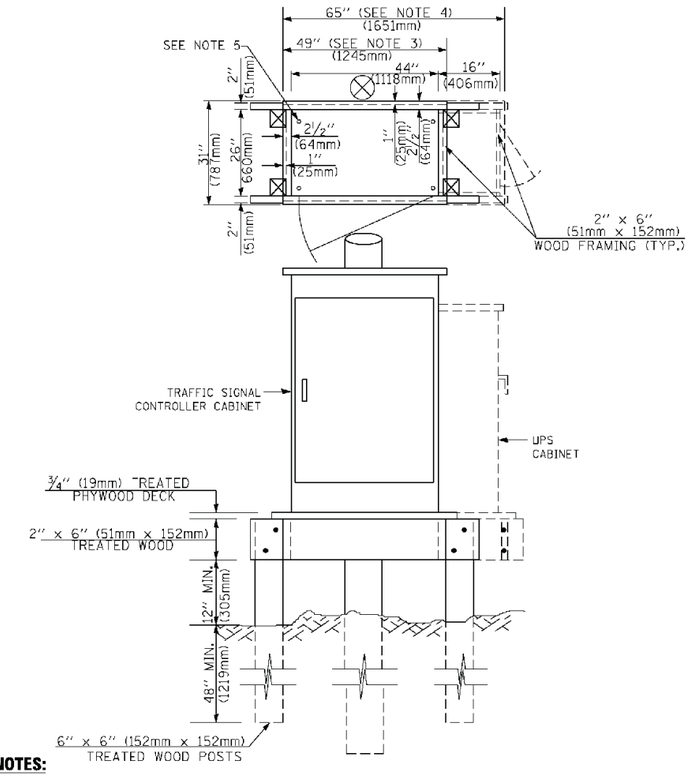
TOP VIEW

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)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NA | SHEET NO. 5 OF 8 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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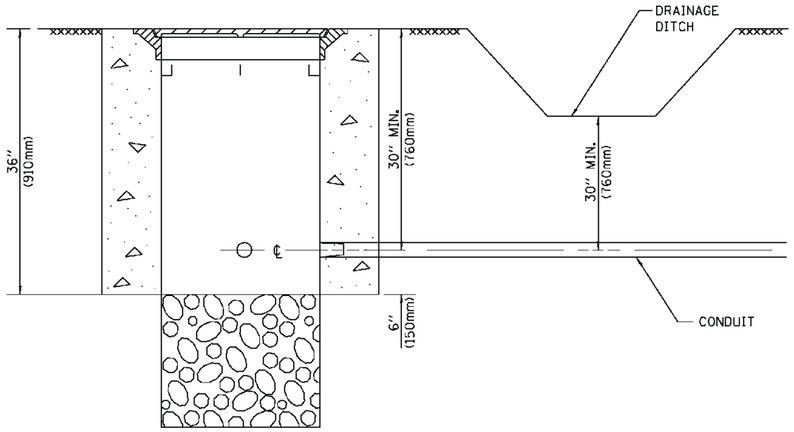
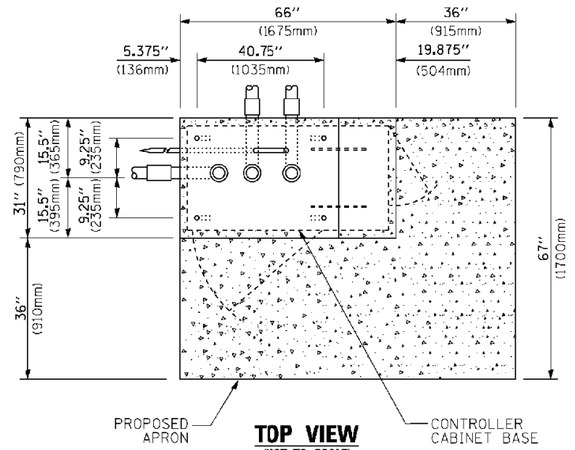


NOTES:

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.

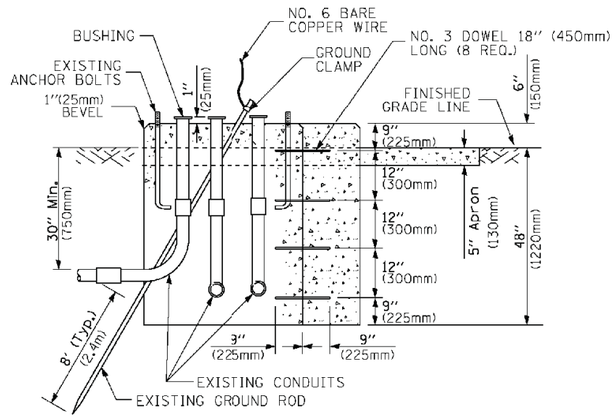
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



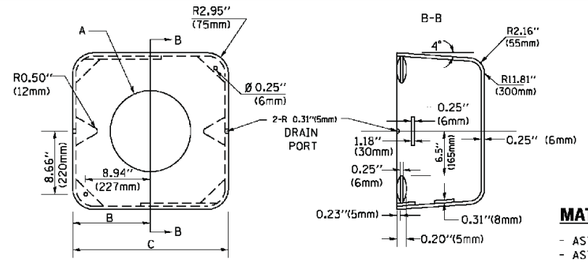
TOP VIEW

(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION

(NOT TO SCALE)



MATERIAL:

- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

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

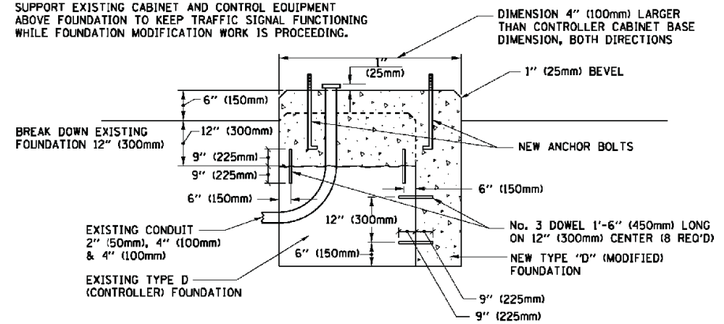
SHROUD

NOTES:

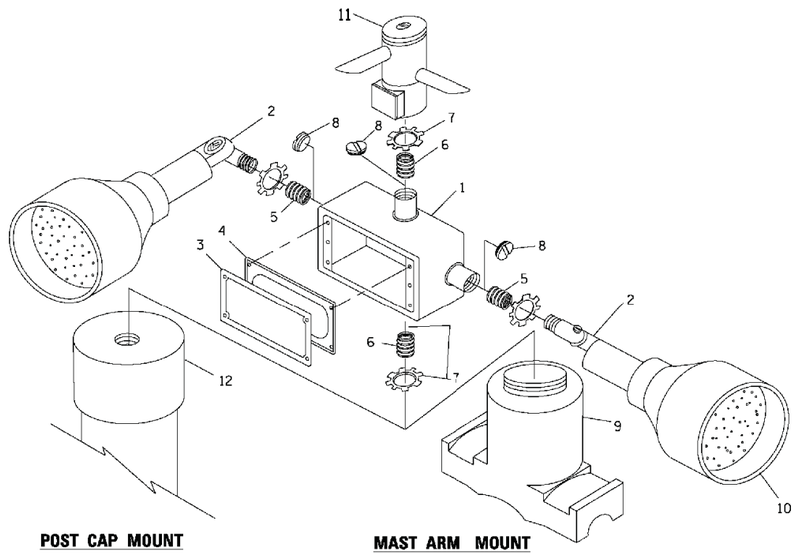
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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



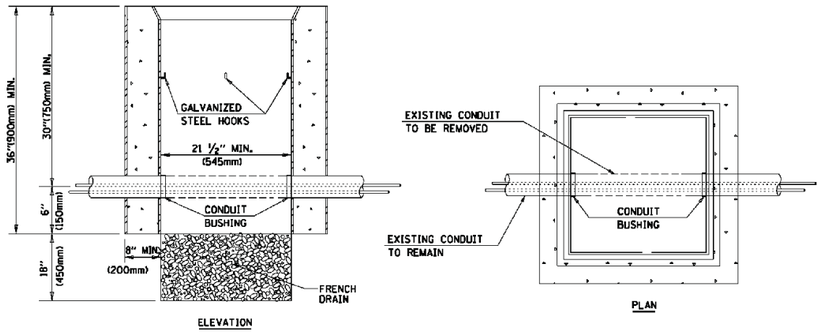
POST CAP MOUNT **MAST ARM MOUNT**

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	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(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.

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

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CLIENT:
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STATE OF ILLINOIS
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SCALE: NA | SHEET NO. 6 OF 8 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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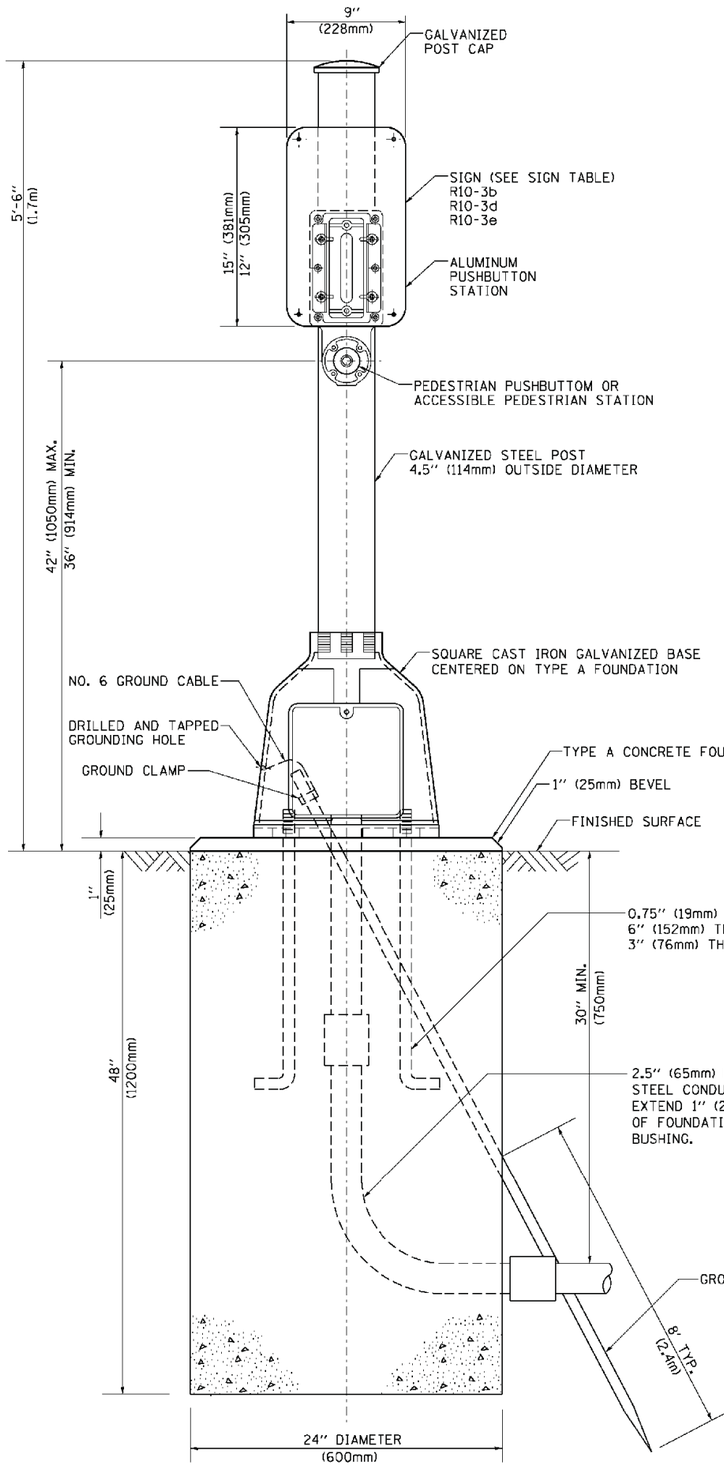
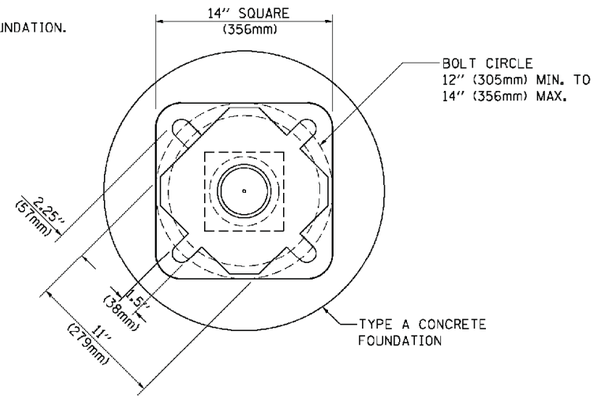
		CONTRACT NO. 60T87		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 9/9/2014 9:16:47 AM
FILE NAME: 86100196.45-sigDET07.dgn
PLOT DRIVER: pdf.plt
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184-001322

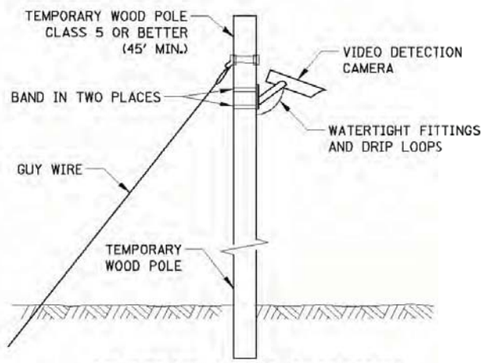
USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
dgn	DRAWN - GND	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED - DAD	REVISED -
PLOT DATE = 1/13/2014	DATE - 10/1/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NA | SHEET NO. 7 OF 8 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	44
		CONTRACT NO. 60T87		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TEMPORARY VIDEO DETECTION MOUNTING DETAIL
(NOT TO SCALE)

RESTORATION OF WORK AREA

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

CONSTRUCTION NOTES

FINAL DETECTION CAMERA POSITIONS TO BE DETERMINED BY THE CONTRACTOR/VENDOR TO ENSURE CORRECT ZONE COVERAGE, INCLUDING FAR-OUT DETECTION IS WORKING PROPERLY.

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

4	EACH	SIGNAL POST
4	EACH	ALUMINUM MAST ARM ASSEMBLY & POLE
1	EACH	CONTROLLER AND CABINET (COMPLETE)
4	EACH	SIGNAL HEAD, 1-FACE, 3 SECTION
8	EACH	SIGNAL HEAD, 1-FACE, 5 SECTION
4	EACH	TRAFFIC SIGNAL BACKPLATE
1	EACH	SERVICE INSTALLATION
4	EACH	MAST ARM SIGN PANELS

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND SHALL REMAIN THE PROPERTY OF THE AGENCY LISTED BELOW. THE CONTRACTOR SHALL SAFELY STORE AND ARRANGE FOR PICK UP OF ALL EQUIPMENT TO BE RETURNED TO THE LISTED AGENCY AS PER THE TRAFFIC SIGNAL SPECIFICATIONS.

AGENCY: BARRINGTON FIRE DISTRICT

4	EACH	EMERGENCY LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER

NOTES FOR TEMPORARY TRAFFIC SIGNALS

1. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
2. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 1, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
3. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
4. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
5. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
6. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
7. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
8. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
9. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 1 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
10. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 12/9/2014 3:42:12 PM
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Illinois Professional Design Firm
184-001322

USER NAME = jstrzal	DESIGNED - JJS	REVISED -
	DRAWN - TAY	REVISED -
PLOT SCALE = 1'=20'	CHECKED - TEH	REVISED -
PLOT DATE = 12/9/2014	DATE - 12/9/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

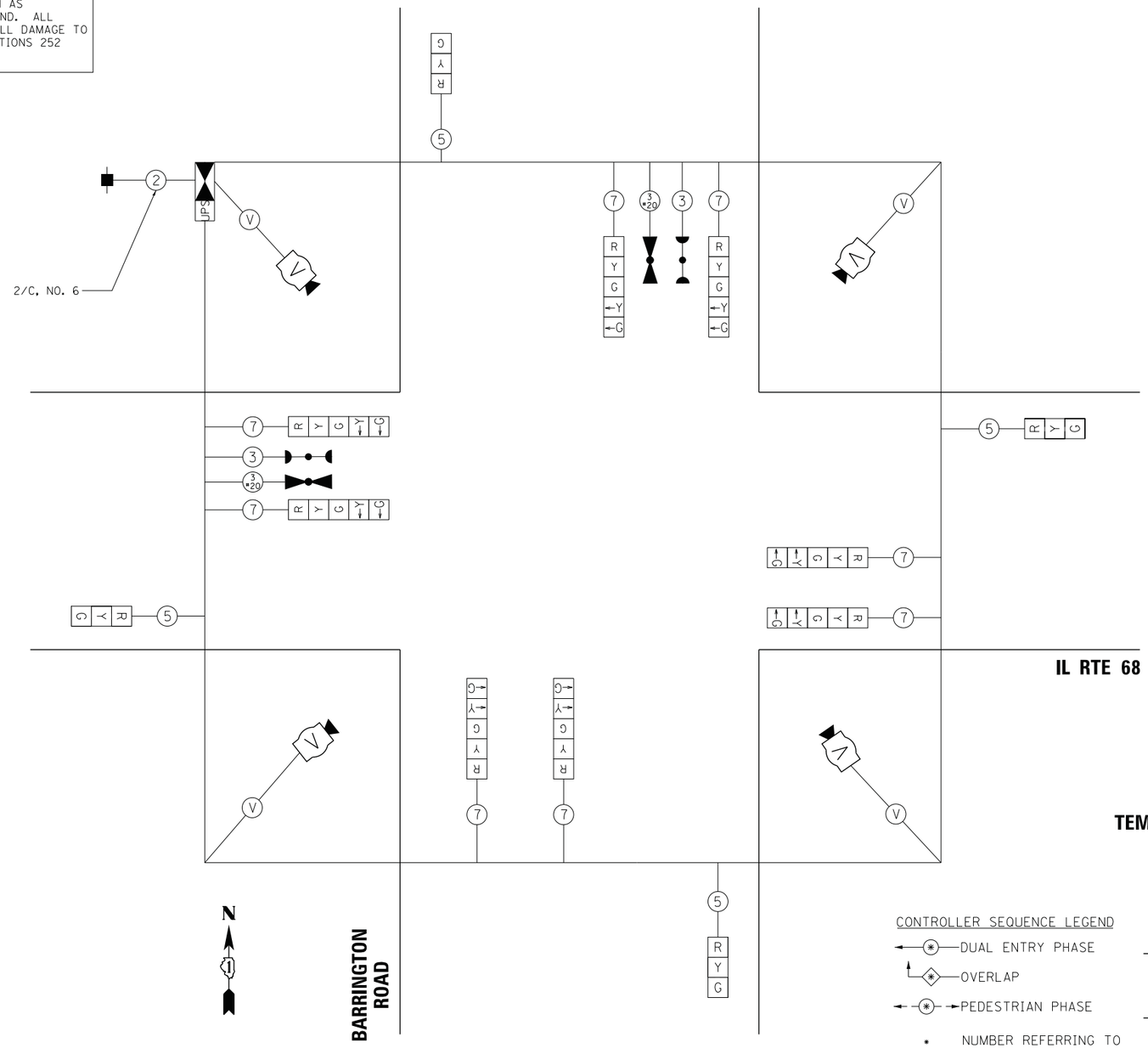
TEMPORARY TRAFFIC SIGNAL INSTALLATION AND REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
ILLINOIS ROUTE 68 (DUNDEE ROAD) AT BARRINGTON ROAD

SCALE: 1"=20' | SHEET NO. 1 OF 5 SHEETS | STA. | TO STA.

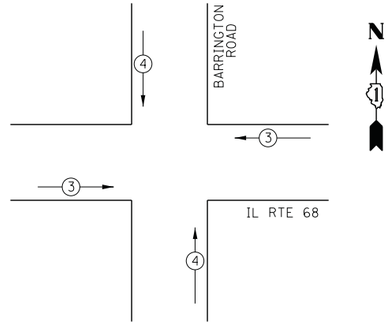
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	45
		CONTRACT NO. 60T87		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

RESTORATION OF WORK AREA

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



TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE



TEMPORARY EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	←	↓ ↑

IL RTE 68

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 (YELLOW)	8		12	0.10	9.60
ARROW (GREEN)	8		12	0.10	9.60
PEDESTRIAN SIGNAL	0		25	1.00	0.00
CONTROLLER	1		100	1.00	100.00
UPS	0		25	1.00	0.00
VIDEO SYSTEM	1		15	1.00	15.00
				TOTAL =	356.20

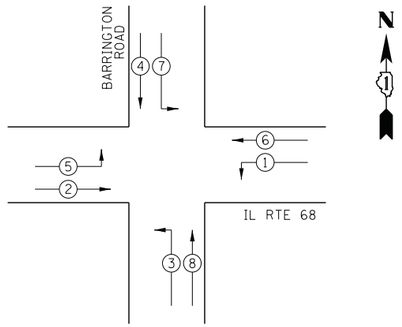
ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W. CENTER COURT
SCHAUMBURG, IL 60196

ENERGY SUPPLY CONTACT: KATHY NYSTROM
PHONE: (847) 608-2331
COMPANY: COMMONWEALTH EDISON

TEMPORARY CABLE PLAN

CONTROLLER SEQUENCE LEGEND
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERRING TO ASSOCIATED PHASE

TEMPORARY CONTROLLER SEQUENCE



TEMPORARY PHASE DESIGNATION DIAGRAM

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PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 11/18/2014 11:05:11 AM
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PLOT DRIVER: pdf.plt
PEN TABLE: standard-trans-screen-topo.tbl

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Illinois Professional Design Firm # 184-001322
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USER NAME = tyelton	DESIGNED - JJS	REVISED -
	DRAWN - TAY	REVISED -
PLOT SCALE = NTS	CHECKED - TEH	REVISED -
PLOT DATE = 11/18/2014	DATE - 11/18/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

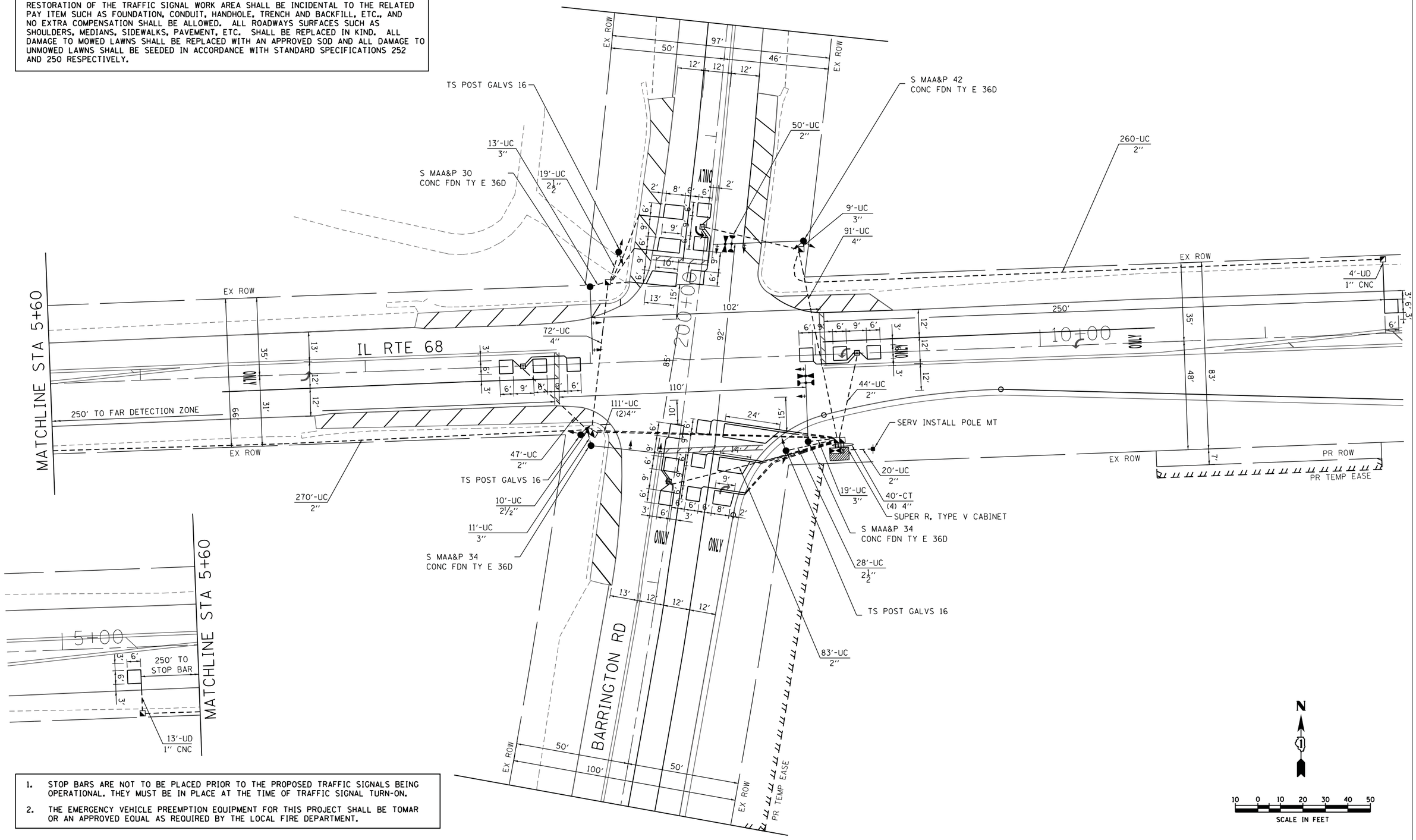
TEMPORARY CABLE PLAN AND TEMPORARY PHASE DESIGNATION DIAGRAM ILLINOIS ROUTE 68 (DUNDEE ROAD) AT BARRINGTON ROAD

SCALE: NTS | SHEET NO. 2 OF 5 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	46
		CONTRACT NO. 60T87		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

RESTORATION OF WORK AREA

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



1. STOP BARS ARE NOT TO BE PLACED PRIOR TO THE PROPOSED TRAFFIC SIGNALS BEING OPERATIONAL. THEY MUST BE IN PLACE AT THE TIME OF TRAFFIC SIGNAL TURN-ON.
2. THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE TOMAR OR AN APPROVED EQUAL AS REQUIRED BY THE LOCAL FIRE DEPARTMENT.

SCALE IN FEET

COMPANY NAME: HRGreen
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 12/9/2014 2:45:02 PM
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HRGreen.com
Illinois Professional Design Firm
184-001322

USER NAME = jstrzal	DESIGNED - JJS	REVISED -	
	DRAWN - TAY	REVISED -	
PLOT SCALE = 1′=20′	CHECKED - TEH	REVISED -	
PLOT DATE = 12/9/2014	DATE - 12/9/14	REVISED -	

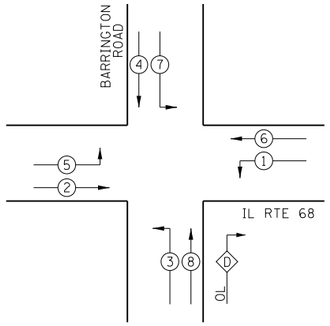
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
ILLINOIS ROUTE 68 (DUNDEE ROAD) AT BARRINGTON ROAD

SCALE: 1″=20′ | SHEET NO. 3 OF 5 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	47
		CONTRACT NO.	60T87	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTROLLER SEQUENCE



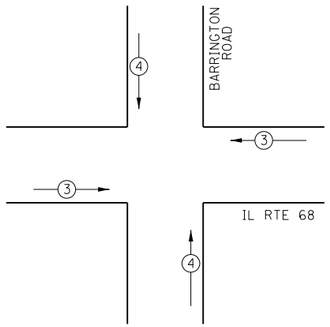
CONTROLLER SEQUENCE LEGEND

- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- * NUMBER REFERRING TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

OVERLAP PHASE		PERMISSIVE PHASE		PROTECTED PHASE
D	=	8	+	1

EMERGENCY VEHICLE PREEMPTION SEQUENCE

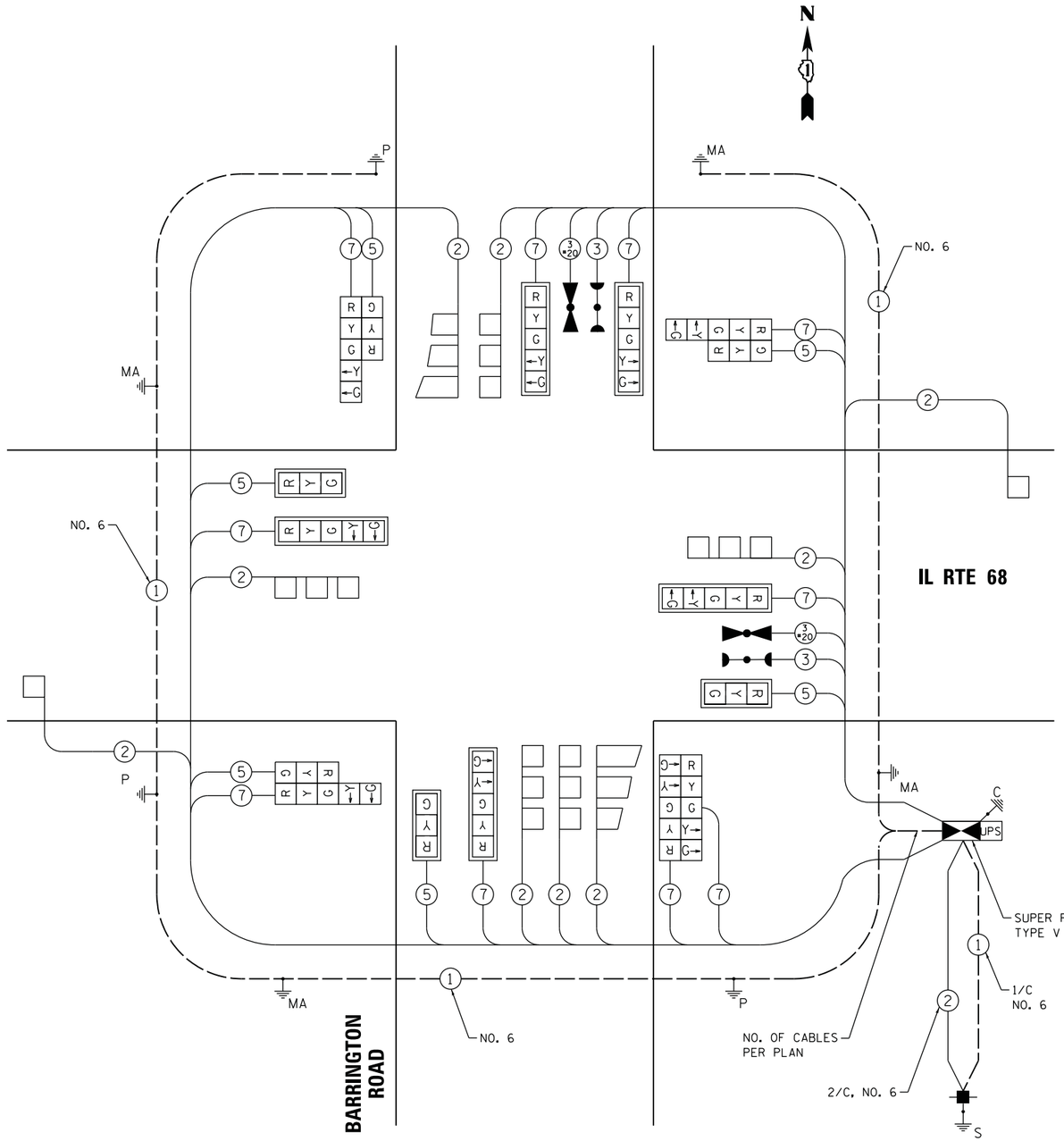


PROPOSED EMERGENCY VEHICLE PREEMPTORS		
PROPOSED EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	← →	↓ ↑

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE		% OPERATION	
		INCAND.	LED		
SIGNAL (RED)	15		17	0.50	127.50
(YELLOW)	15		25	0.25	93.75
(GREEN)	15		15	0.25	56.25
ARROW (YELLOW)	11		12	0.10	13.20
ARROW (GREEN)	11		12	0.10	13.20
PEDESTRIAN SIGNAL	2		25	1.00	50.00
CONTROLLER	1		100	1.00	100.00
UPS	1		25	1.00	25.00
				TOTAL =	478.90

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W. CENTER COURT
SCHAUMBURG, IL 60196

ENERGY SUPPLY CONTACT: KATHY NYSTROM
PHONE: (847) 608-2331
COMPANY: COMMONWEALTH EDISON



CABLE PLAN

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 12/9/2014 3:50:40 PM
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PLOT DRIVER: PDF.pltPEN TABLE: standard-trans.tbl

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HRGreen

USER NAME = jstrzal	DESIGNED - JJS	REVISED -	
	DRAWN - TAY	REVISED -	
PLOT SCALE = NTS	CHECKED - TEH	REVISED -	
PLOT DATE = 12/9/2014	DATE - 12/9/14	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

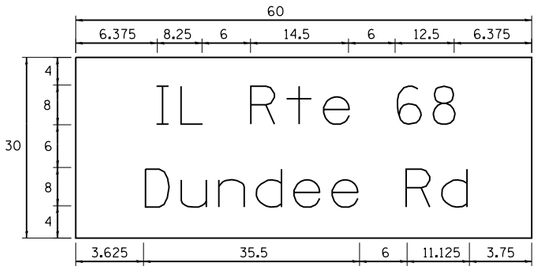
CABLE PLAN AND PHASE DESIGNATION DIAGRAM
ILLINOIS ROUTE 68 (DUNDEE ROAD) AT BARRINGTON ROAD

SCALE: NTS | SHEET NO. 4 OF 5 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	48
		CONTRACT NO. 60T87		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGN PANEL – TYPE 1 OR TYPE 2

DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	9.75	2	ZZ	2



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

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

SIGN PANEL - TYPE 2	SQ FT	44.50
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	774
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	57
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	52
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	441
HANDHOLE	EACH	4
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	2
FULL-ACTUATED CONTROLLER AND TYPE V CABINET	EACH	1
•ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	290.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	847.0
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2,170.0
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,666.0
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	55.5
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,067.0
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	3
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	2
STEEL MAST ARM ASSEMBLY AND POLE, 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12.0
CONCRETE FOUNDATION, TYPE C	FOOT	4.0
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	46.0
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	3
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	5
SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	3
TRAFFIC SIGNAL BACKPLATE, LOUVERED	EACH	8
INDUCTIVE LOOP DETECTOR	EACH	9
DETECTOR LOOP, TYPE I	FOOT	870
•LIGHT DETECTOR	EACH	2
•LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	11
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	9
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
•EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	290.0
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1

•NOTE: 100% OF THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT COST WILL BE PAID BY THE VILLAGE OF BARRINGTON.

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 12/10/2014 12:44:43 PM
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PLOT DRIVER: PDF.plt
PEN TABLE: standard-trans.tbl

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184-001322

USER NAME = tyelton	DESIGNED - JJS	REVISED -	
	DRAWN - TAY	REVISED -	
PLOT SCALE = NTS	CHECKED - TEH	REVISED -	
PLOT DATE = 12/10/2014	DATE - 12/10/14	REVISED -	

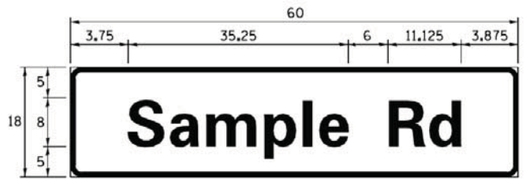
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

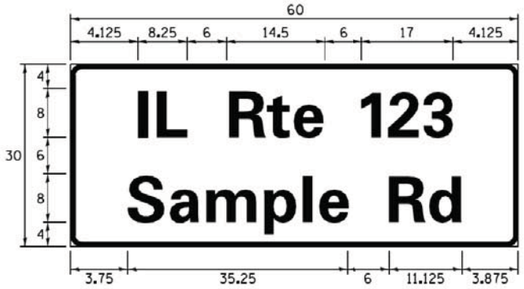
MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES
ILLINOIS ROUTE 68 (DUNDEE ROAD) AT BARRINGTON ROAD

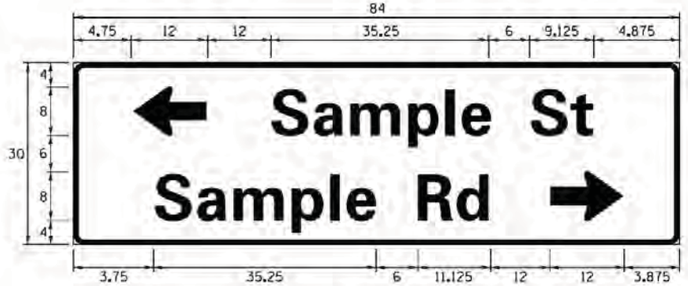
SCALE: NTS | SHEET NO. 5 OF 5 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	49
		CONTRACT NO. 60787		
FED. ROAD DIST. NO.	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	ABBREVATION	WIDTH (INCH)	
		SERIES "C"	SERIES "D"
AVENUE	Ave	15.000	18.250
BOULEVARD	Blvd	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

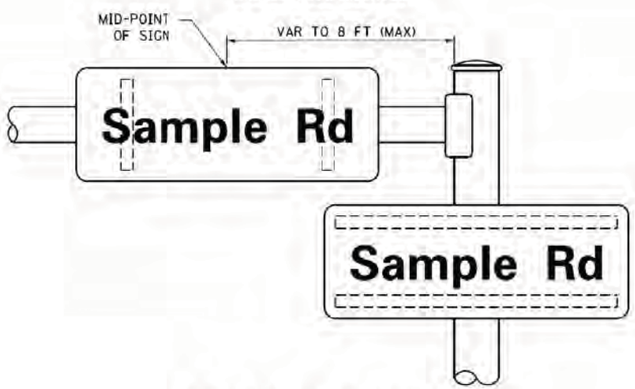
1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE 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.
2. ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
3. 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.
4. A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUX 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.
5. 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.
6. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:	PARTS LISTING:	
- J.O. HERBERT COMPANY, INC MIDLOTHIAN, VA	SIGN CHANNEL	PART #HPN053 (MED. CHANNEL)
	SIGN SCREWS	1/4" x 14 x 1" H.W.H. #3 SELF TAPPING WITH NEOPRENE WASHER
- WESTERN REMAC, INC. WOODRIDGE, IL	BRACKETS	PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

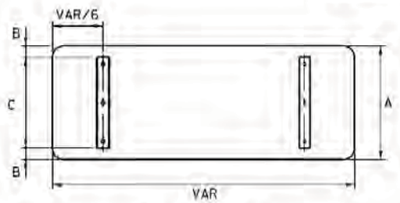
OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION

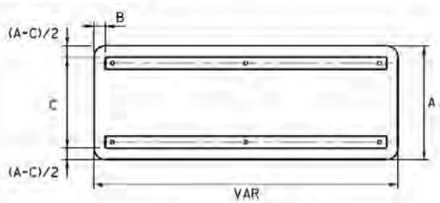
ARM OR POLE MOUNTED



SUPPORTING CHANNELS



A	B	C
18"	2"	14"
30"	2"	24"



A	B	C
18"	2"	12"
30"	2"	22"

STANDARD ALPHABETS SPACING CHART

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

FHWA SERIES "C"				FHWA SERIES "D"			
CHARACTER	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

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PROJECT CONTACT:
CLIENT:
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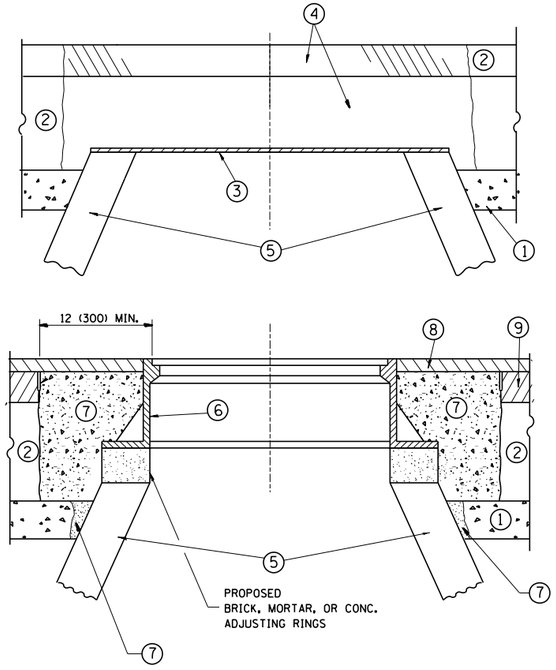
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS

SCALE: NA | SHEET NO. 8 OF 8 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	50
		CONTRACT NO. 60T87		
FED. ROAD DIST. NO.	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 1½ (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

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.

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.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

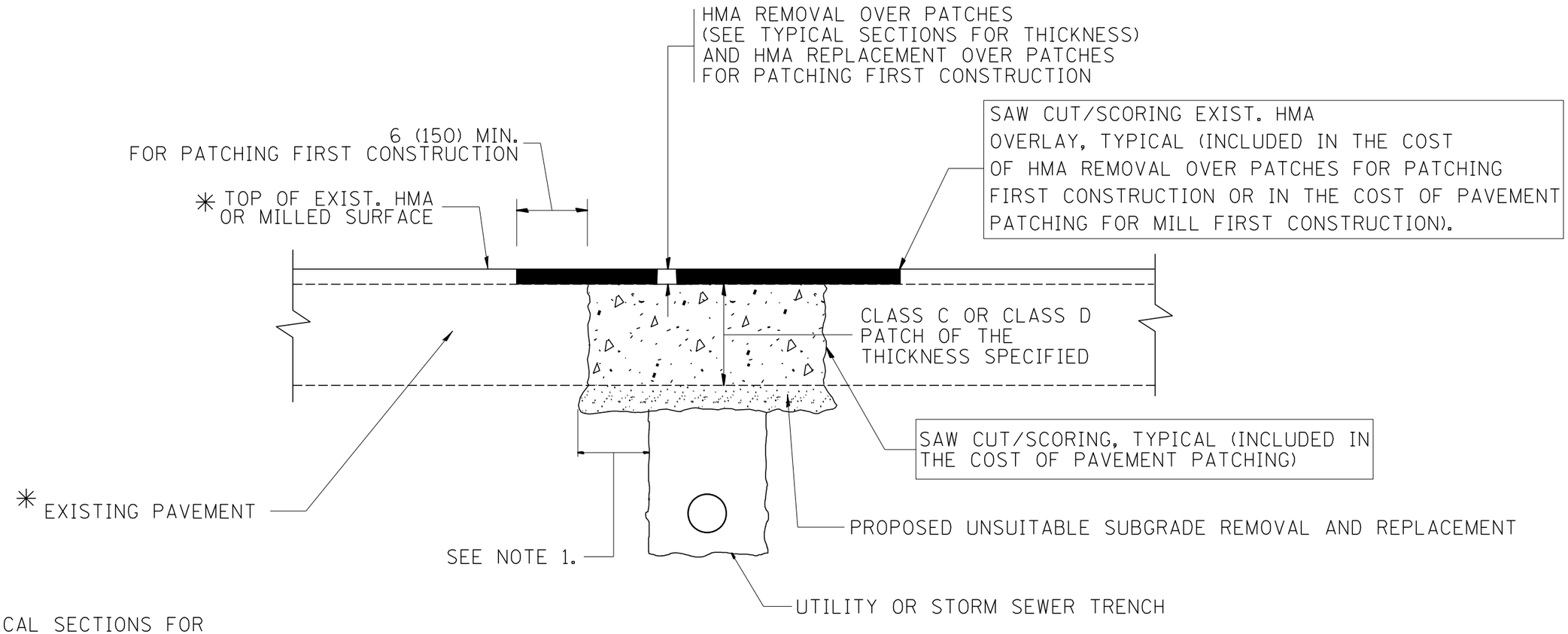
FILE NAME = c:\pw_work\pwidot\abebawa\d0245528\Dist\td.dgn	USER NAME = abebawa	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 12/12/2014	DATE - 10-25-94	REVISED - R. BORO 12-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	51
	BD600-03 (BD-8)	CONTRACT NO. 60T87		
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 $4\frac{1}{2}$ 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.

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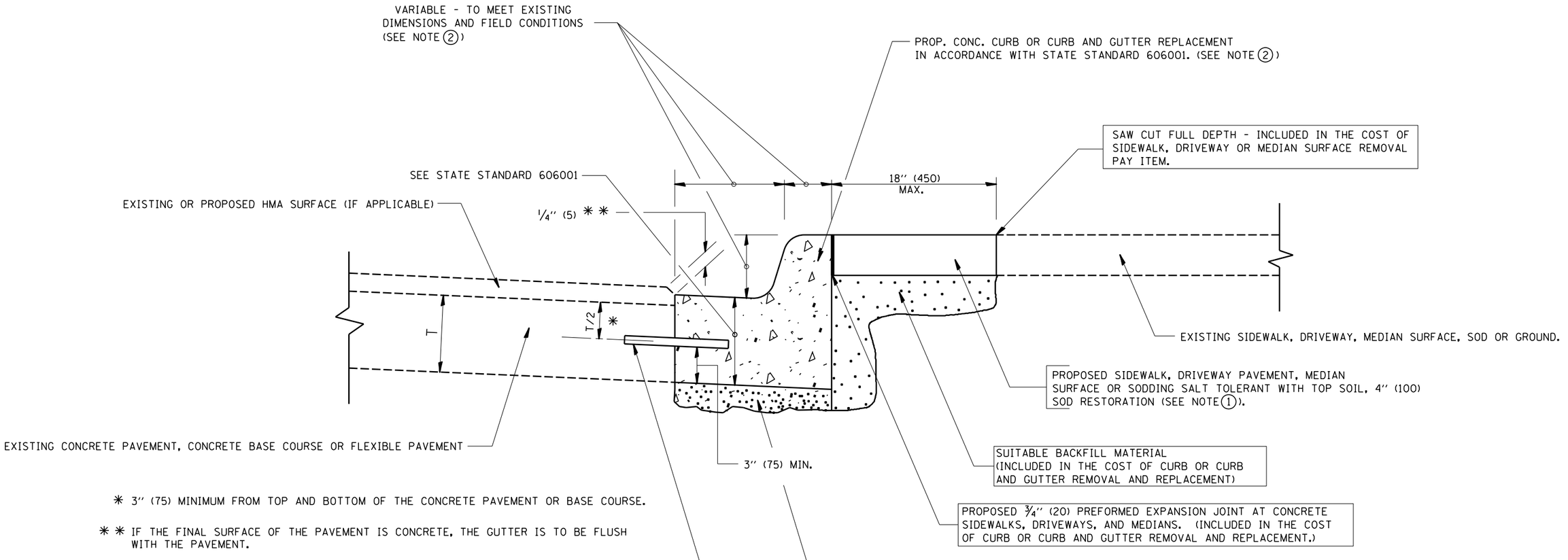
		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 09-04-07
	PLOT DATE = 12/12/2014	DATE - 10-25-94	REVISED - K. ENG 10-27-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	52
	BD400-04 (BD-22)	CONTRACT NO. 60T87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



* 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.

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.

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.

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		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - M. GOMEZ 01-22-01
	PLOT DATE = 12/12/2014	DATE - 03-11-94	REVISED - R. BORO 12-15-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

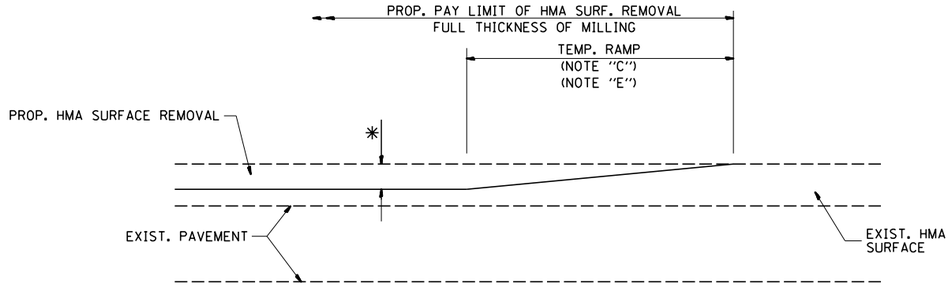
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	53

BD600-06 (BD-24) **CONTRACT NO. 60T87**

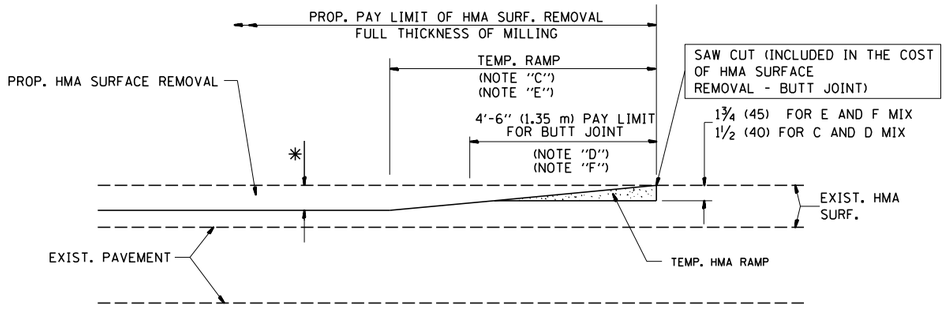
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

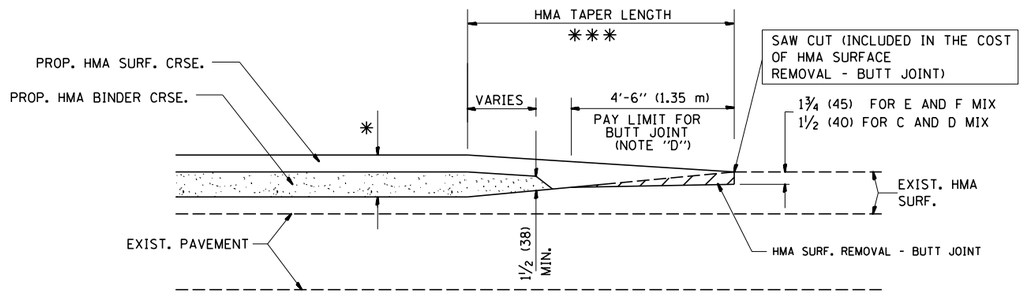


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

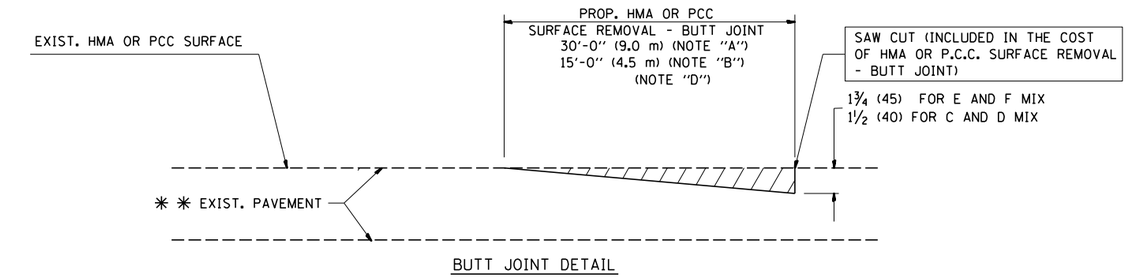
OPTION 2

TYPICAL TEMPORARY RAMP

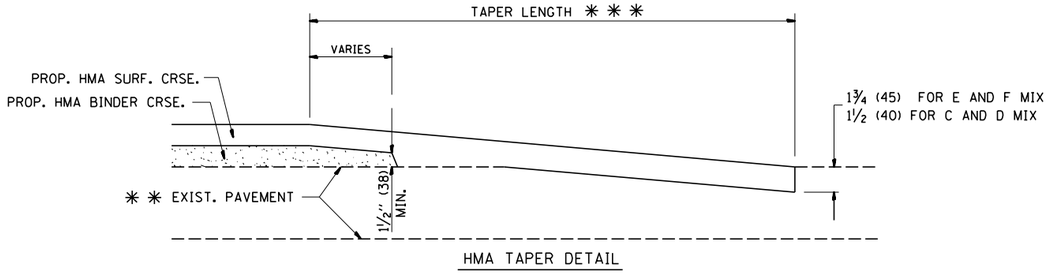


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

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

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.

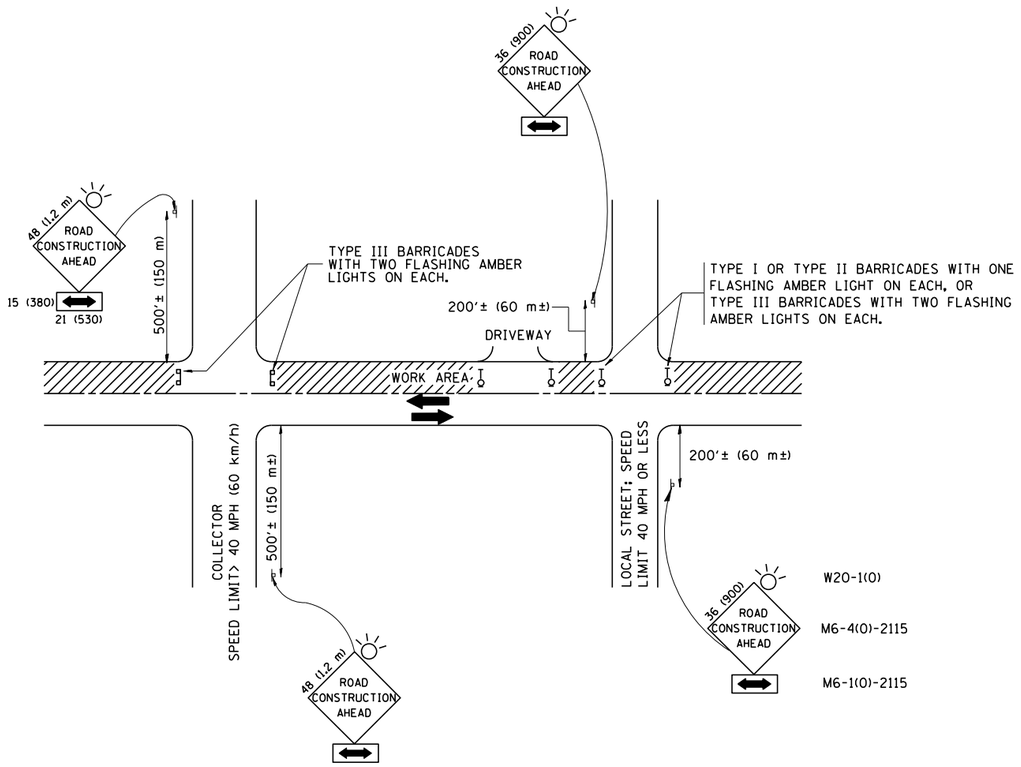
FILE NAME = c:\pw_work\pwidot\abebawa\d0245528\Dist_std.dgn	USER NAME = abebawa	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 12/12/2014	DATE - 06-13-90	REVISED - R. BORO 01-01-07

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	3045N-1	COOK	63	54
	BD400-05 BD32	CONTRACT NO. 60T87		
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.

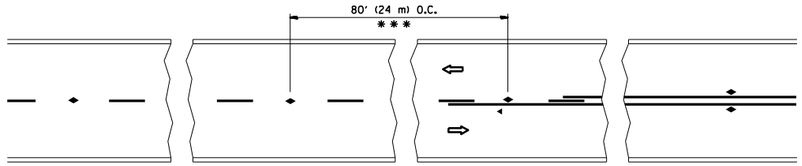
FILE NAME = c:\pw_work\pwidot\abebawa\d0245528\Dist_std.dgn	USER NAME = abebawa	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 12/12/2014	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

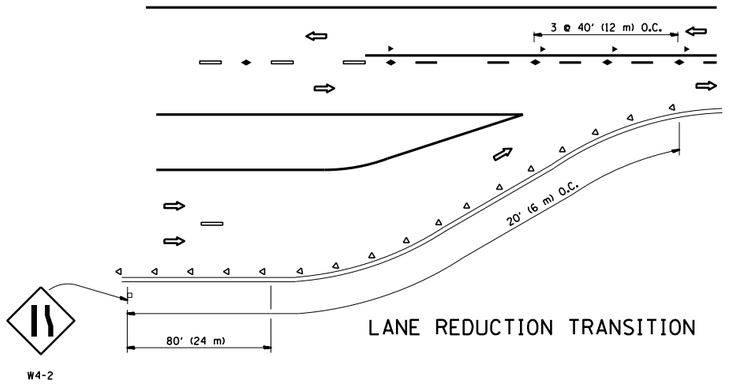
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	55
	TC-10	CONTRACT NO. 60T87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

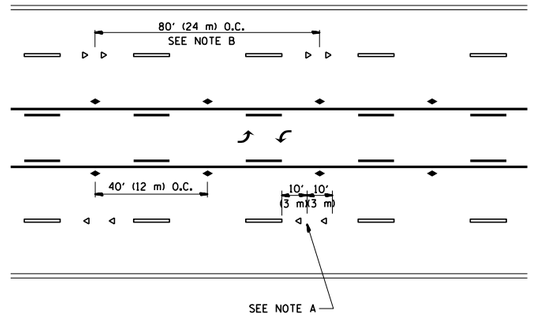


* * * REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

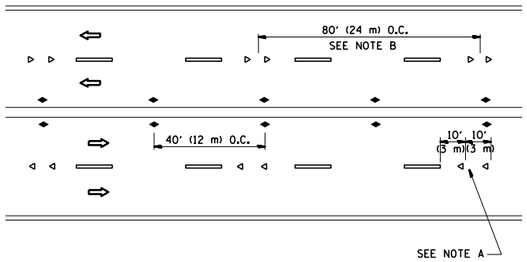
TWO-LANE/TWO-WAY



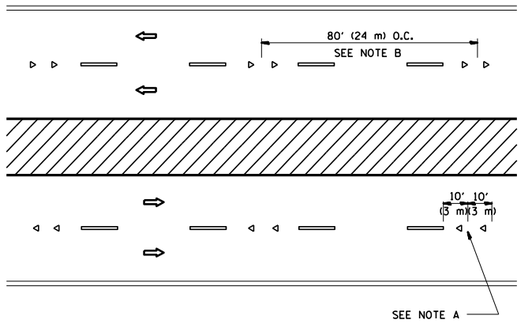
LANE REDUCTION TRANSITION



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

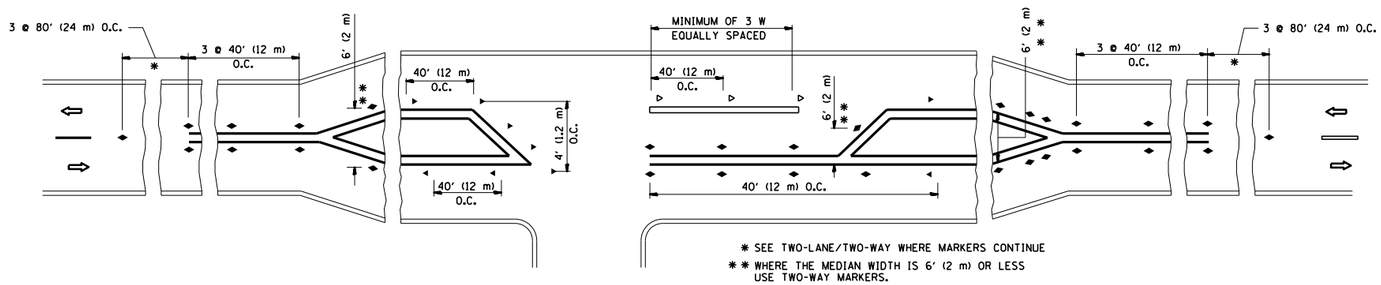
LANE MARKER NOTES

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.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

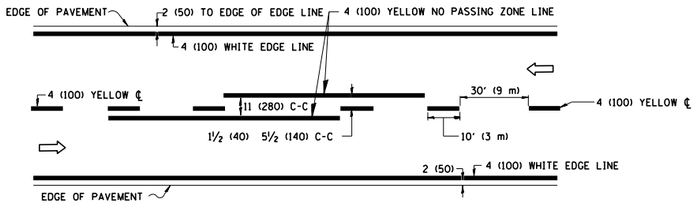
** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

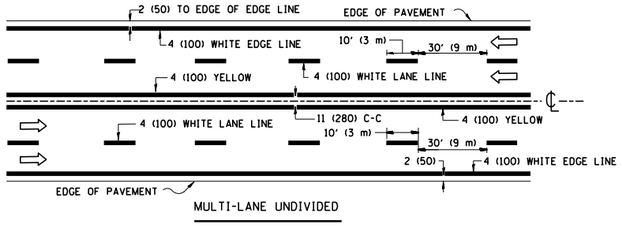
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = c:\pw_work\pwidot\abebawa\d0245528\Dist\std.dgn	USER NAME = abebawa	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED - T. RAMMACHER 03-12-99		
	PLOT DATE = 12/12/2014	CHECKED -	REVISED - T. RAMMACHER 01-06-00		
		DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

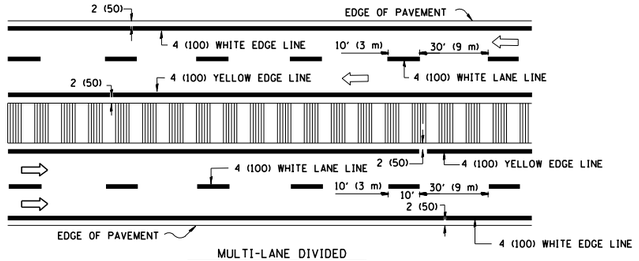
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	56
	TC-11	CONTRACT NO. 60T87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



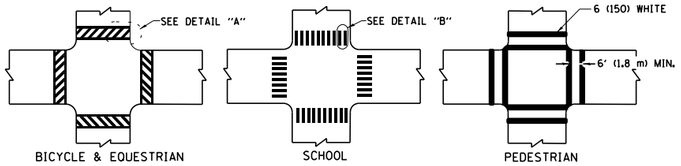
MULTI-LANE UNDIVIDED

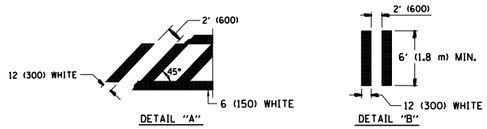


MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

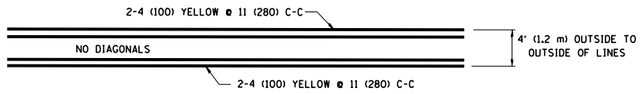
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

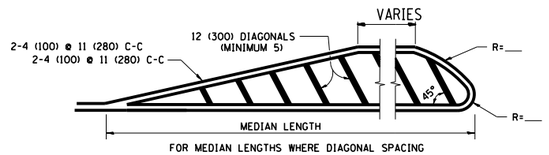




TYPICAL CROSSWALK MARKING



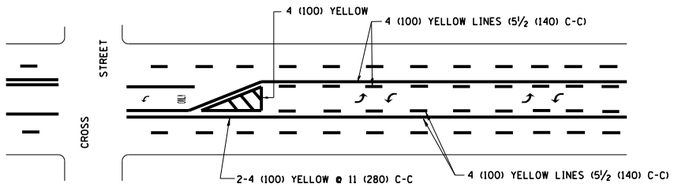
4' (1.2 m) WIDE MEDIANS ONLY



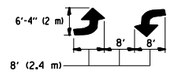
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

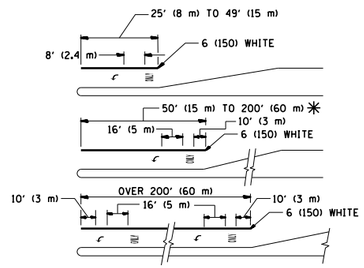


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

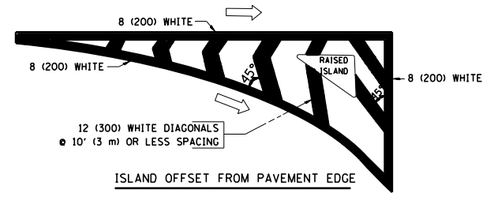


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m^2) ONLY AREA = 20.8 SQ. FT. (1.9 m^2)

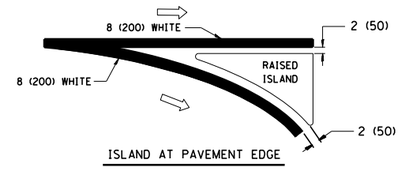
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



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 FOR BOTH DIRECTIONS	4 (100) 2 ⌀ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 ⌀ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (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" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)
SHOULDER DIAGONALS	12 (300) ⌀ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

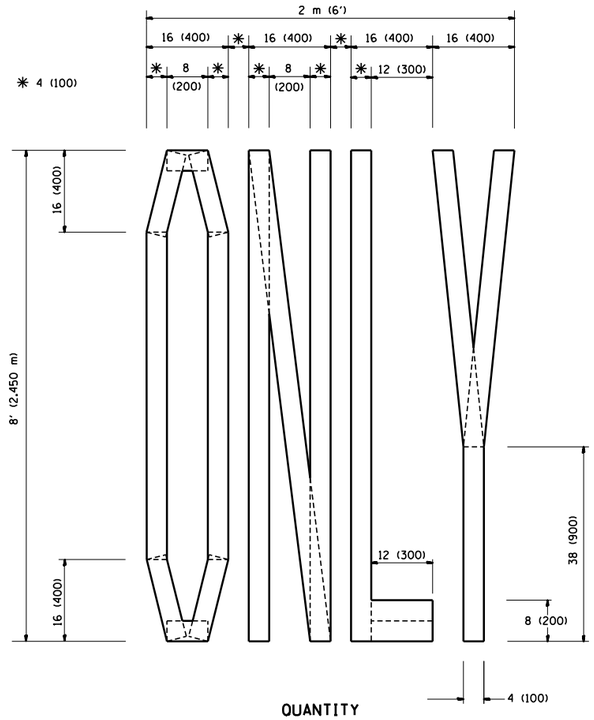
FILE NAME = c:\pw_work\pwidot\abebawa\d0245528\Disttd.dgn	USER NAME = abebawa	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
		DRAWN -	REVISED -C. JUCIUS 09-09-09
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/12/2014	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

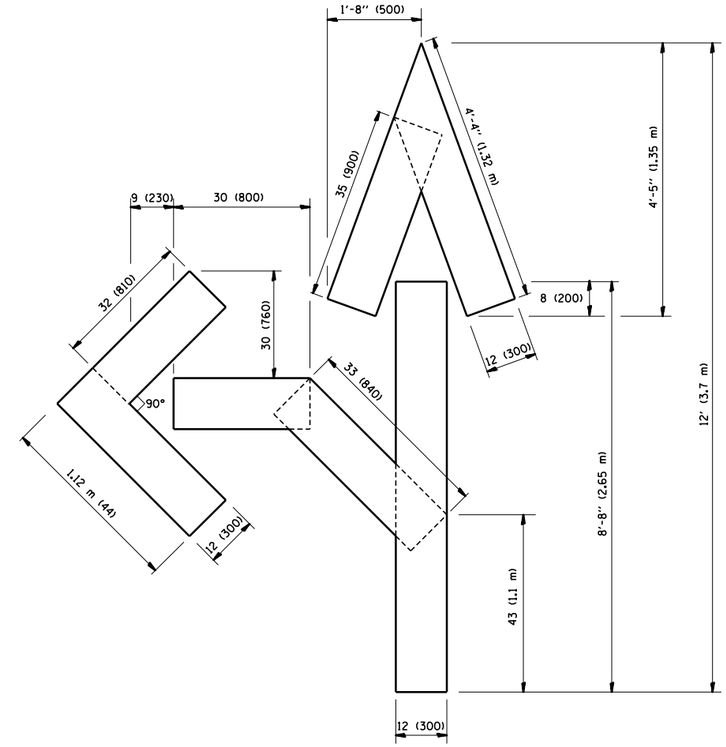
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

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

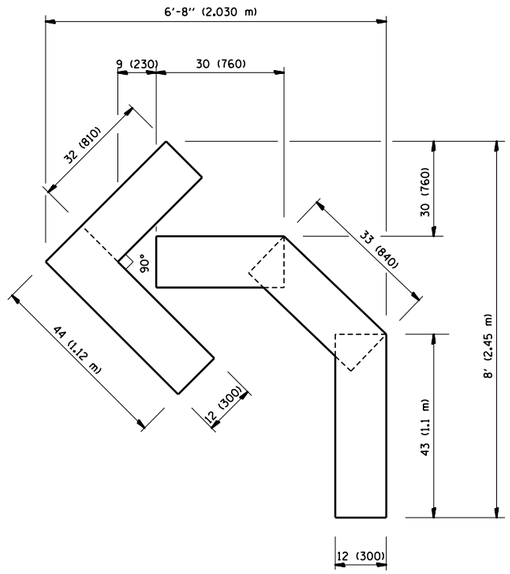
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	57
	TC-13	CONTRACT NO. 60T87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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.

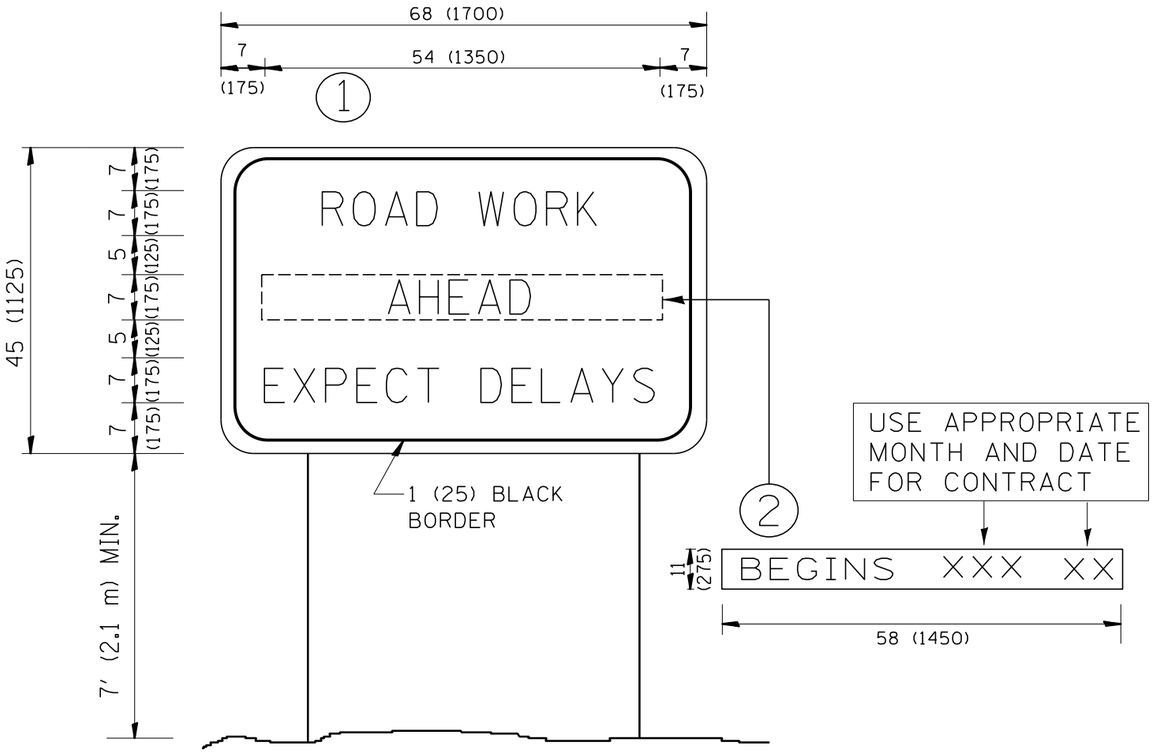
FILE NAME = c:\pw_work\pwidot\sbebawa\d0245528\Dist-std.dgn	USER NAME = sbebawa	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 12/12/2014	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

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	3045N-1	COOK	63	58
	TC-16	CONTRACT NO. 60787		
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.

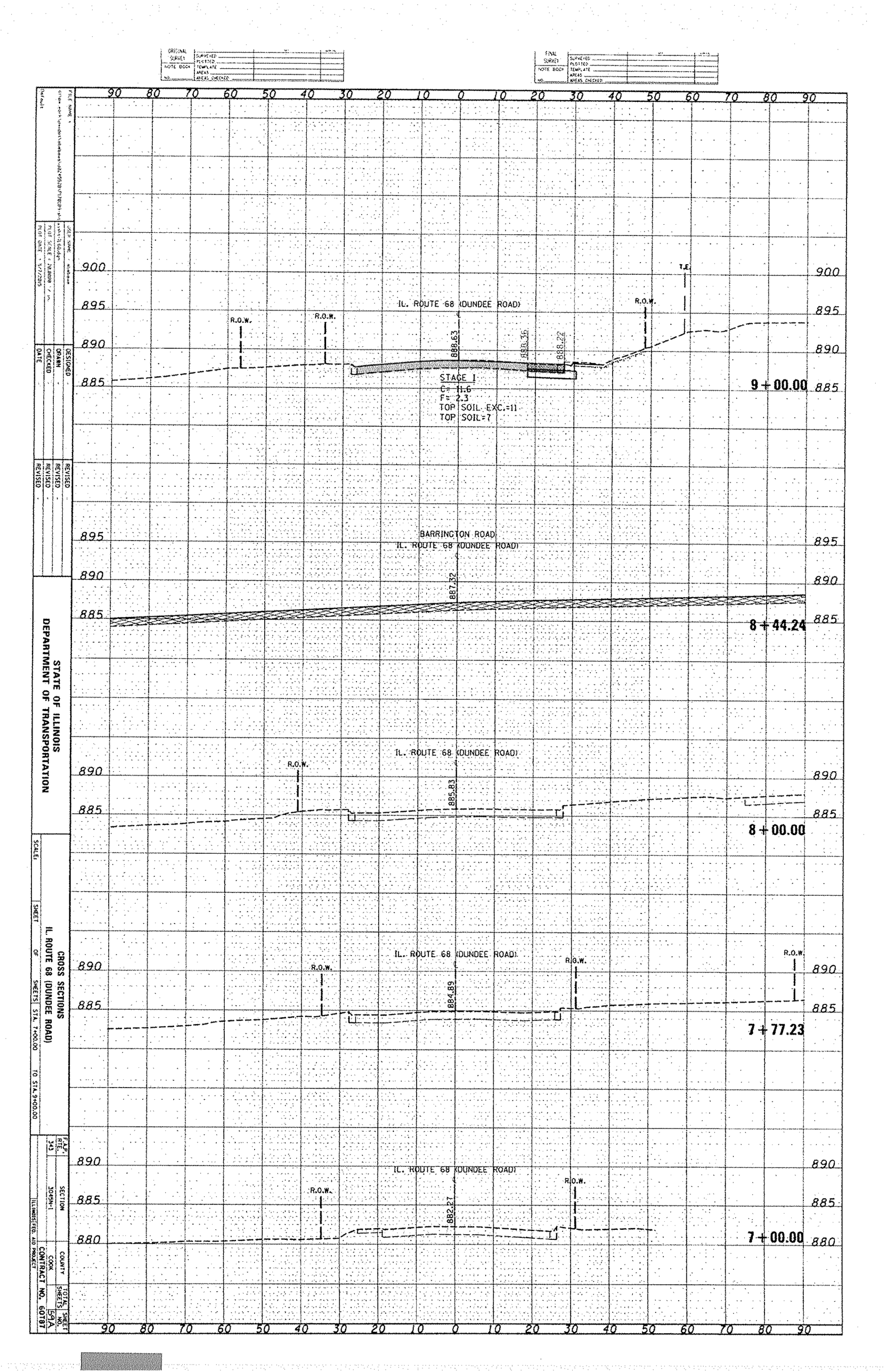
FILE NAME = c:\pw_work\pwidot\abebawa\d0245528\Dist1td.dgn	USER NAME = abebawa	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 12/12/2014	DATE -	REVISED - C. JUCIUS 01-31-07

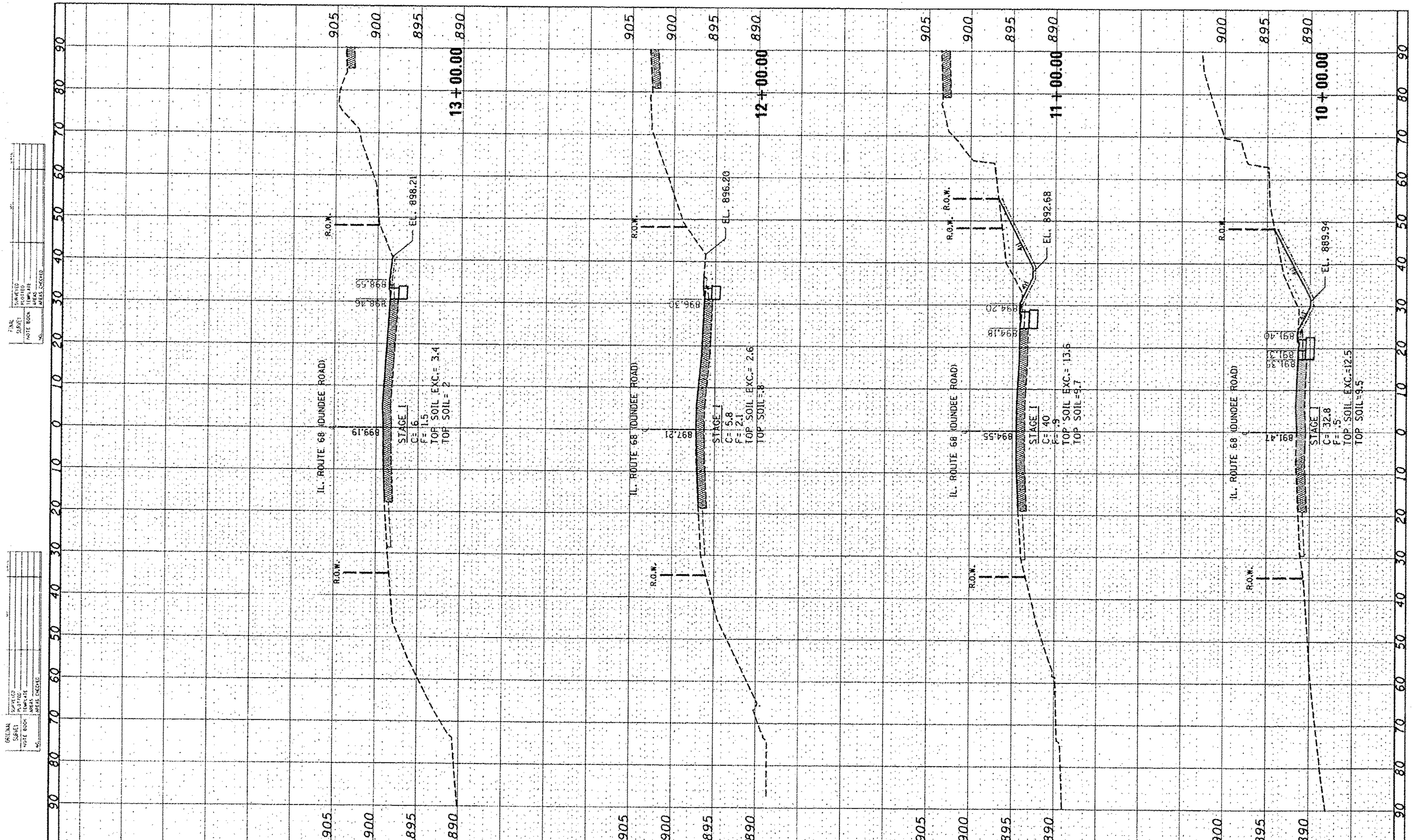
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	59
	TC-22	CONTRACT NO. 60T87		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		


ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
FILE NAME =
USER NAME =
PLOT SCALE = 20.0000 ' / in.
PLOT DATE = 5/7/2015
DESIGNED
DRAWN
CHECKED
DATE
REVISED
REVISED
REVISED
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS
IL. ROUTE 68 (DUNDEE ROAD)
SCALE:
SHEET
OF
SHEETS
STA. 7+00.00
TO STA. 9+00.00
F.A.P. RTE. 343
SECTION
TOWN-1
COUNTY
COOK
TOTAL SHEETS
SHEET NO.
59A
ILLINOIS FED. AID PROJECT
CONTRACT NO. 60187
90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90
900
895
890
885
880
IL. ROUTE 68 (DUNDEE ROAD)
R.O.W.
T.E.
888.63
888.36
888.22
STAGE I
C= 11.6
F= 2.3
TOP SOIL EXC.=11
TOP SOIL=7
9+00.00
BARRINGTON ROAD
IL. ROUTE 68 (DUNDEE ROAD)
887.32
8+44.24
885.83
8+00.00
884.89
7+77.23
882.27
7+00.00



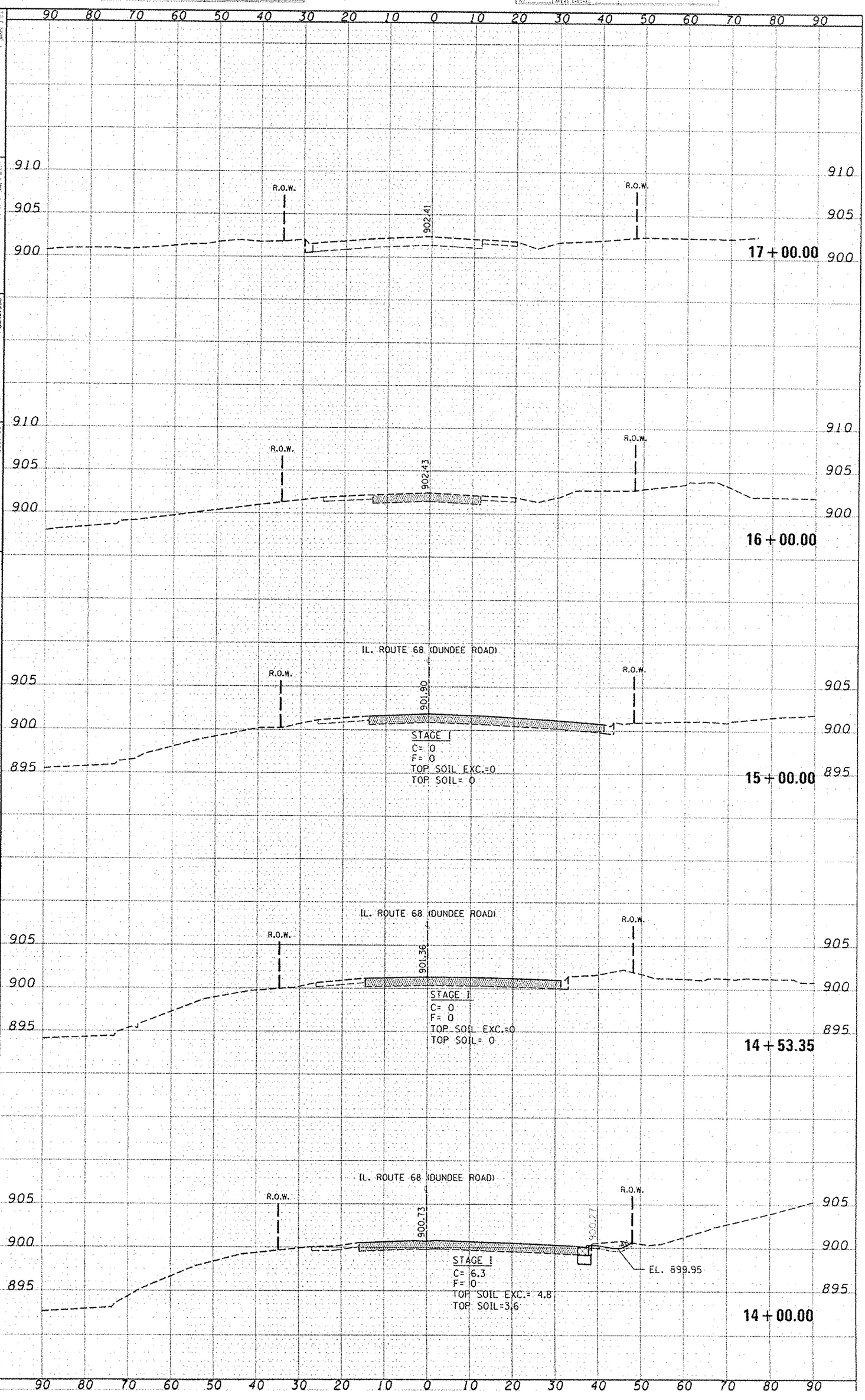
FILE NAME -	USER NAME - obebawo	DESIGNED -	REVISED -
c:\pw.work\pwidot\obebawo\d0245528\P170109-sht-xssht-IL68.dgn		DRAWN -	REVISED -
	PLOT SCALE - 20.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE - 5/7/2015	DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL. ROUTE 68 (DUNDEE ROAD)

SCALE: | SHEET OF SHEETS | STA. 10+00.00 TO STA. 13+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK		59B
		CONTRACT NO. 60T87		
	ILLINOIS FED. AID PROJECT			



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL ROUTE 68 (DUNDEE ROAD)

SCALE:1

SHEET OF SHEETS STA. 14+00.00 TO STA.17+00.00

F.A.P. RTE. 343

SECTION 3045N-1

COUNTY COOK

TOTAL SHEETS 54

SHEET NO. 54C

ILLINOIS FED. AID PROJECT

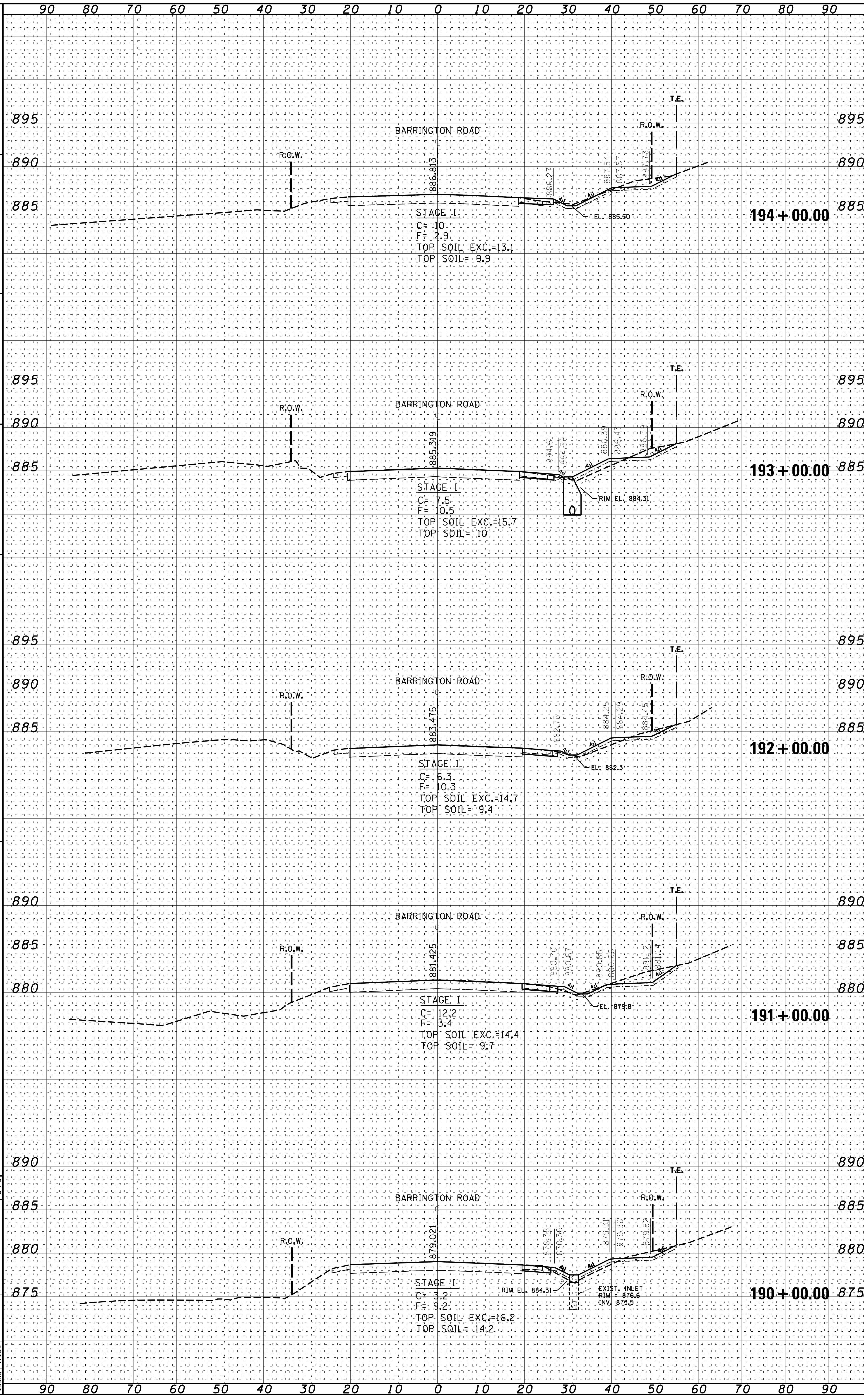
CONTRACT NO. 60187

DESIGNED
DRAWN
CHECKED
DATE

REVISED
REVISED
REVISED

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

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



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Default

USER NAME = abebawa

PLOT SCALE = 20.0000 ' / in.

PLOT DATE = 12/12/2014

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BARRINGTON ROAD

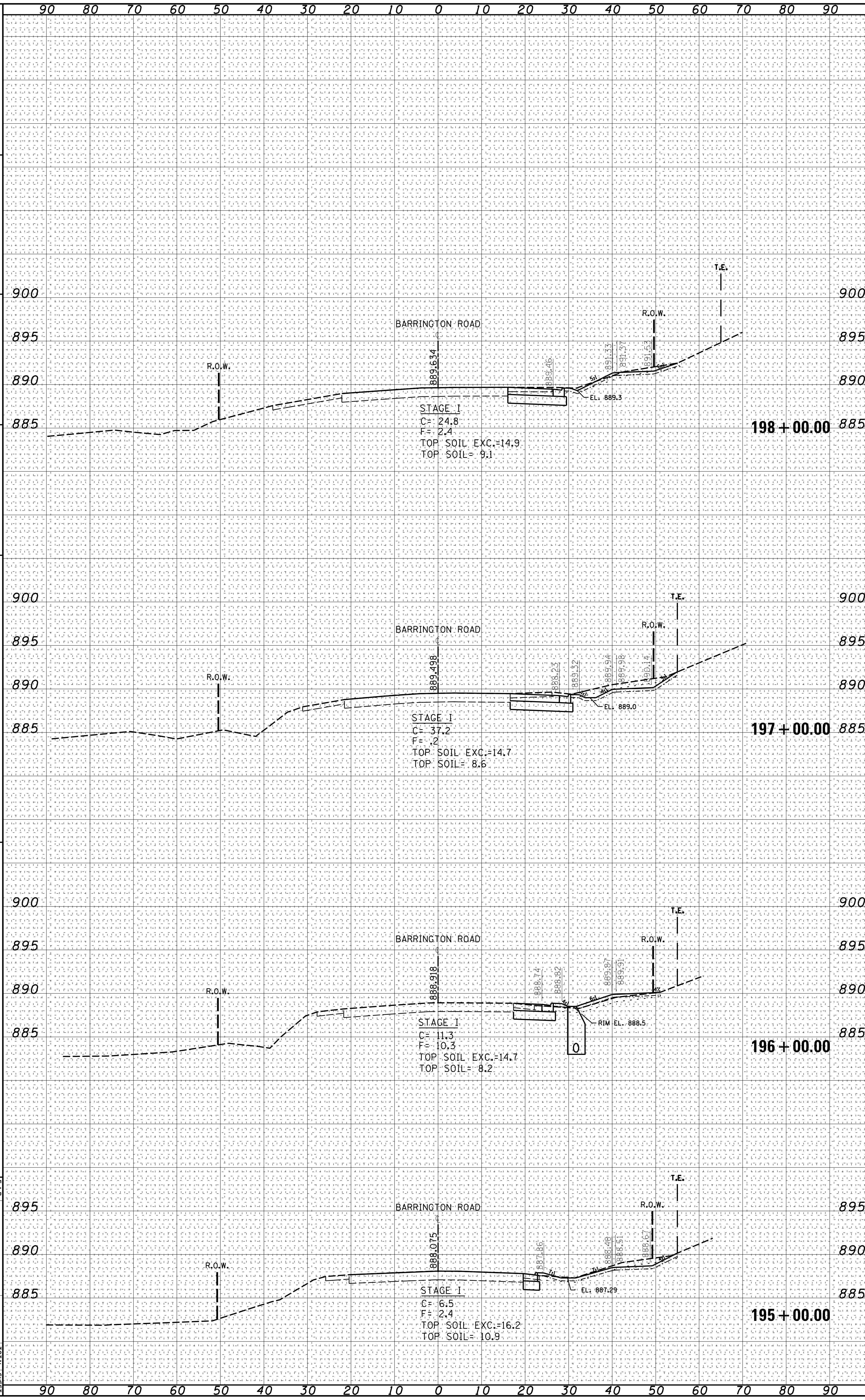
SCALE:

SHEET OF SHEETS STA. 190+00.00 TO STA.194+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	60
		CONTRACT NO. 60T87		
	ILLINOIS	FED. AID PROJECT		

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

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



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Default

USER NAME = abebawa

PLOT SCALE = 20.0000 ' / in.

PLOT DATE = 12/12/2014

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BARRINGTON ROAD

SCALE: | SHEET OF SHEETS | STA. 195+00.00 TO STA.198+00.00

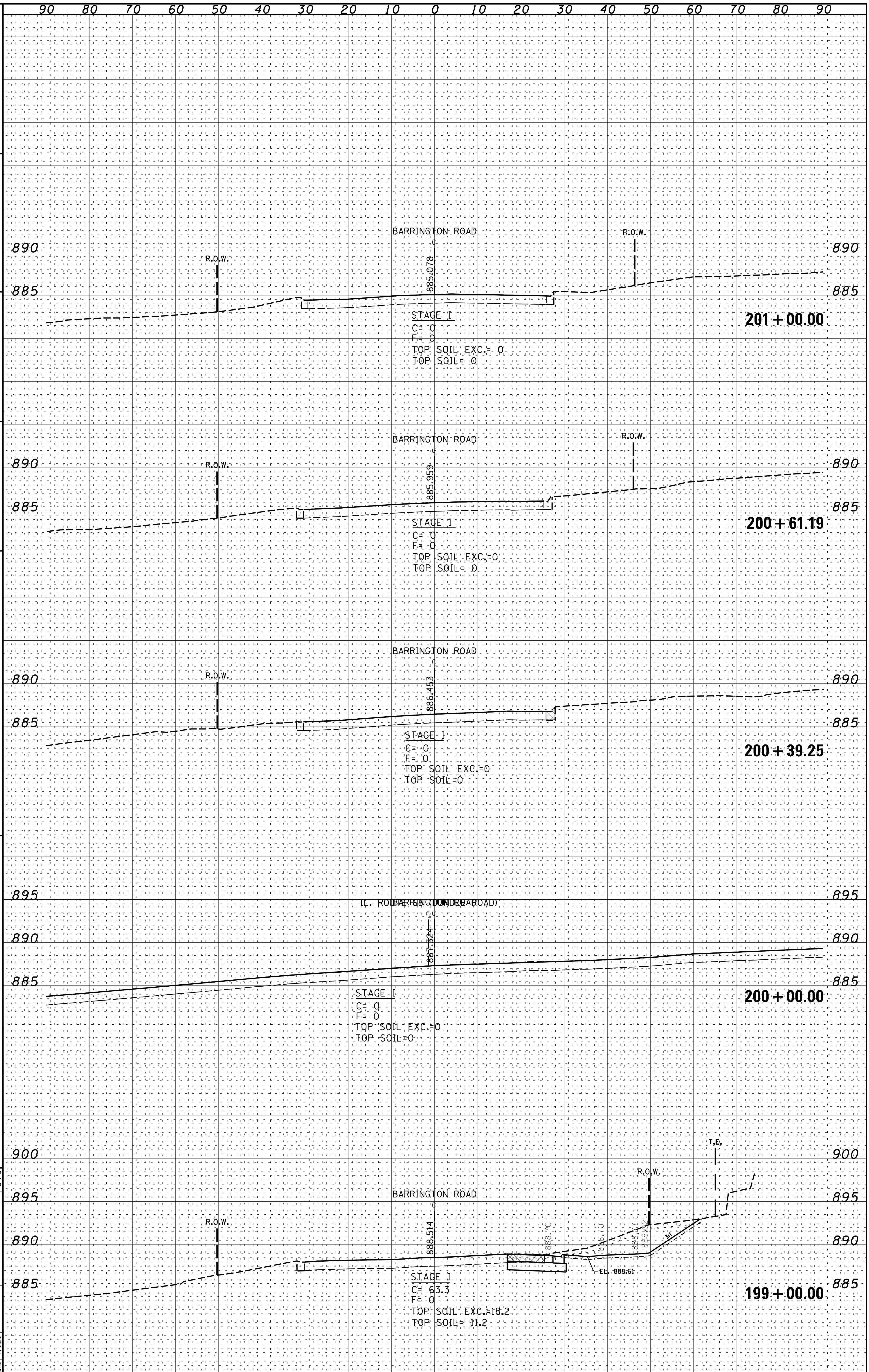
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	61

ILLINOIS | FED. AID PROJECT

CONTRACT NO. 60T87

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

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



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USER NAME = abebawa
PLOT SCALE = 20.0000 ' / in.
PLOT DATE = 12/12/2014

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

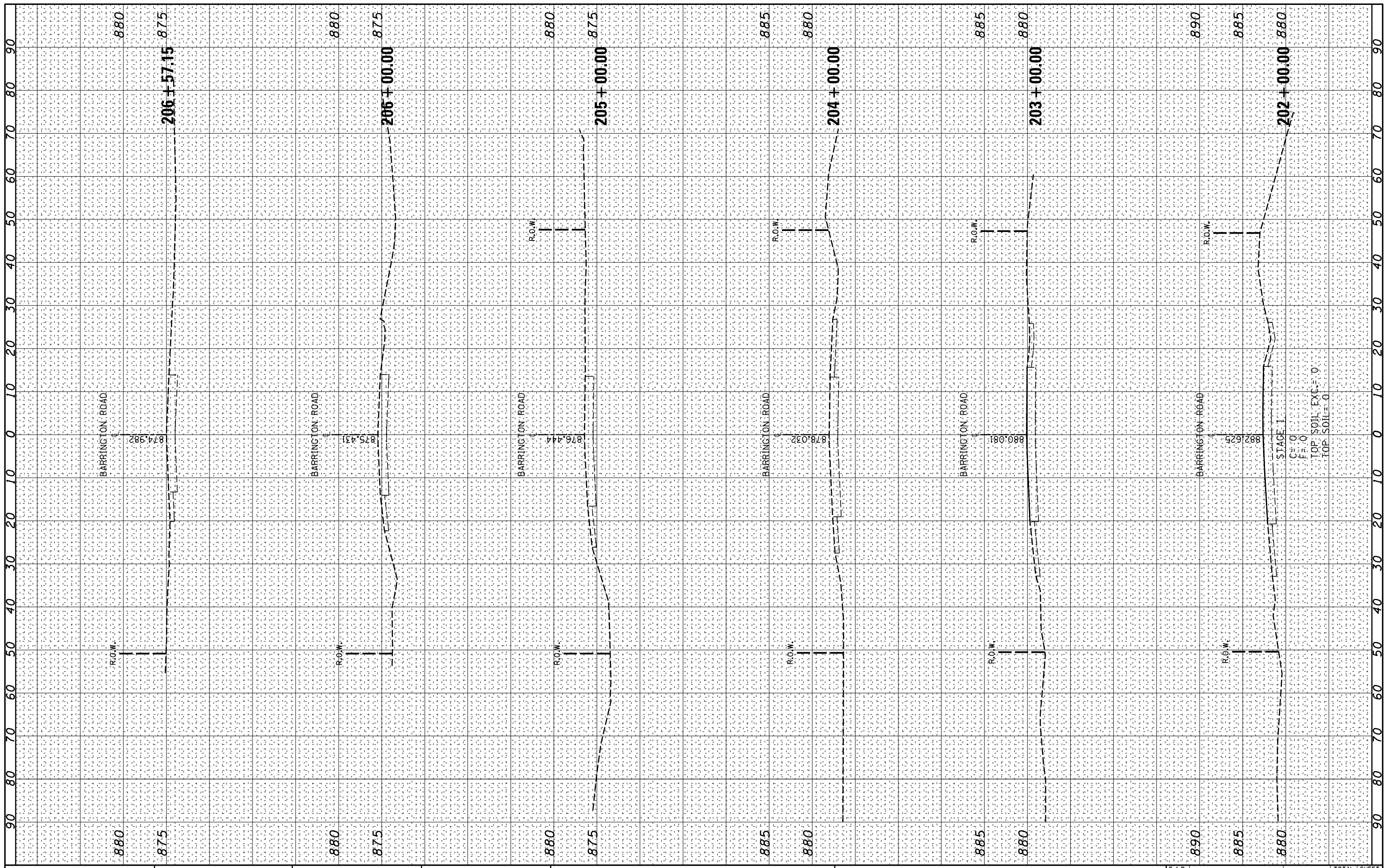
CROSS SECTIONS
BARRINGTON ROAD

SCALE: SHEET OF SHEETS STA. 199+00.00 TO STA. 201+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	62

CONTRACT NO. 60T87

ILLINOIS FED. AID PROJECT



FINAL SURVEY

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

ORIGINAL SURVEY

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

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	xssht-Barrington.dgn	DRAWN -	REVISED -
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	PLOT DATE = 12/12/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
BARRINGTON ROAD

SCALE: | SHEET OF SHEETS | STA. 202+00.00 | TO STA. 206+57.15

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	3045N-1	COOK	63	63
		CONTRACT NO. 60T87		
	ILLINOIS FED. AID PROJECT			