

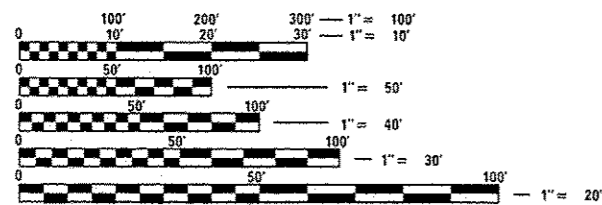
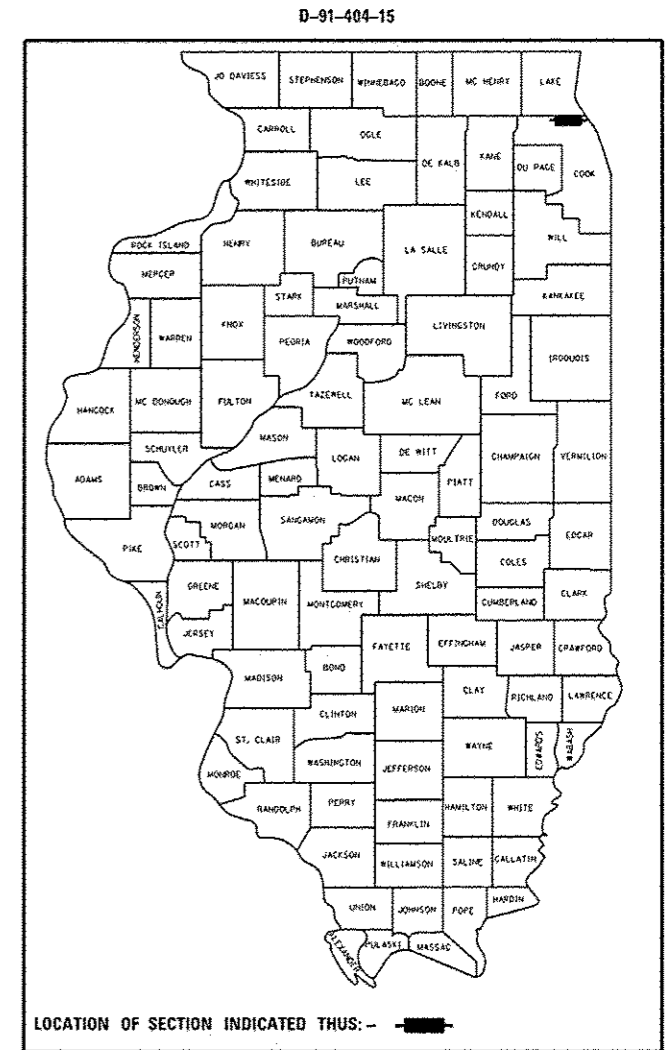
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	2015-060RS	COOK	36	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 62B24	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

F.A.P. 343 IL 68 (DUNDEE RD.)
SECTION 2015-060RS
POTOWATAMI WOODS FOREST PRESERVE ENTRANCE TO I-94/US 41
RESURFACING; ADA RAMPS
COOK COUNTY
C-91-404-15

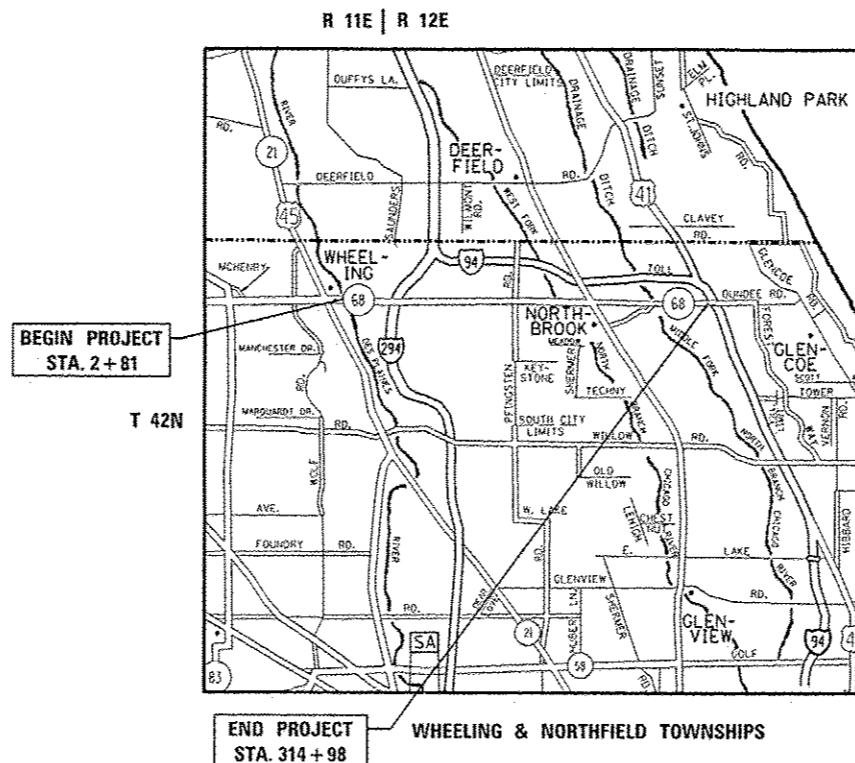
FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED
WITHIN THE VILLAGES OF NORTHBROOK AND WHEELING



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



TRAFFIC DATA

2013 ADT - 43,000
POSTED SPEED LIMIT - 50 MPH

OMISSIONS

- STA. 46+66 TO STA. 49+55
- STA. 121+72 TO STA. 129+83
- STA. 148+67 TO STA. 153+49
- STA. 189+18 TO STA. 189+99
- STA. 195+24 TO STA. 195+60
- STA. 286+77 TO STA. 287+16

PROJECT ENGINEER: JENPAI CHANG (847) 705-4432
PROJECT MANAGER: KEN ENG (847) 702-4247

CONTRACT NO. 62B24

GROSS LENGTH OF PROJECT = 31,217 FT = 5.91 MI.
NET LENGTH OF PROJECT = 29,479 FT = 5.58 MI.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *December 15, 2015*

John Fortman
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Jan 29, 2016
Maurice M. Addis
ENGINEER OF DESIGN AND ENVIRONMENT

Jan 29, 2016
Omer Amamleh
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

LIST OF STATE STANDARDS

GENERAL NOTES

SHEET NO. DESCRIPTION

1	COVER SHEET
2	INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5	EXISTING & PROPOSED TYPICAL SECTIONS
6-16	ROADWAY & PAVEMENT MARKINGS PLANS
17-25	DETECTOR LOOP REPLACEMENT PLANS
26	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-8)
27	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
28	CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)
29	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
30	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
31	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-FLOW RESISTANT) (TC-11)
32	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
33	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TC REMAIN OPEN TO TRAFFIC) (TC-14)
34	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)
35	ARTERIAL ROAD INFORMATION SIGN (TC-22)
36	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

STANDARD NO. DESCRIPTION

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-08	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-02	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-02	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-02	MID-BLOCK CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
604001-04	FRAME AND LIDS, TYPE 1
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701422-07	LANE CLOSURE, MULTILANE, FOR SPEEDS > 45 TO 55 MPH
701426-07	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS > 45 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-07	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-04	TRAFFIC CONTROL DEVICES
886001-01	DETECTOR LOOP INSTALLTION
886006-01	TYPICAL LAYOUT FOR DETECTOR LOOPS

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGES OF WHEELING AND NORTHBROOK.

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

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

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

THE RESIDENT ENGINEER SHALL CONTACT THE NORTH COOK ARTERIAL FIELD ENGINEER AT (847) 714-9857 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

THE RESIDENT ENGINEER SHALL VERIFY ALL EXISTING PAVEMENT MARKINGS BEFORE MILLING.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER

DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-FLOW RESISTANT)" SHOWN IN THE PLANS.

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

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

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

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

SUMMARY OF QUANTITIES			100% STATE URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			100% STATE URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		0005 ROADWAY						CODE NO	ITEM		UNIT	0005 ROADWAY				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	8247	8247					78300100	PAVEMENT MARKING REMOVAL	SO FT	800	800					
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	505	505					78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	3347	3347					
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	3976	3976					88600600	DETECTOR LOOP REPLACEMENT	FOOT	4446	4446					
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	1495	1495					X4060004	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE. STONE MATRIX ASPHALT, 9.5, N80	TON	19566	19566					
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	23416	23416					X5538000	STORM SEWERS TO BE CLEANED 18"	FOOT	2000	2000					
*78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	3015	3015					X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	180	180					
*78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	114635	114635					Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	7026	7026					
*78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	8247	8247					Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	264	264					
*78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	505	505					Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4					
*78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	3976	3976					Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	1					
*78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1495	1495					* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	27	27					
*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	5579	5579					* 66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1					
									* 66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3					
									* 20076604	TRAINEES TRAINING PROGRAM GRADUATE	HOOR	500	500					

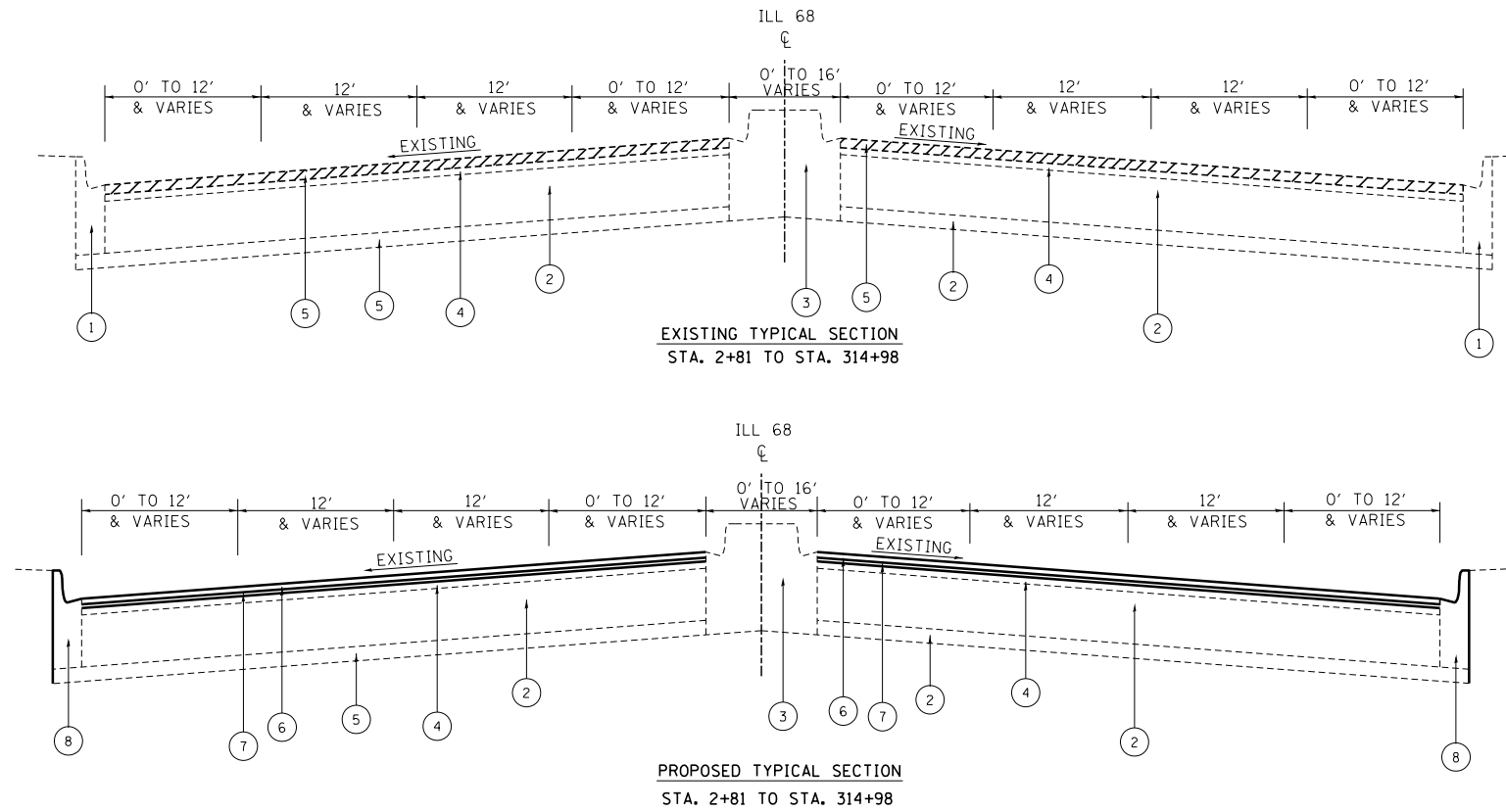
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 68
SUMMARY OF QUANTITIES

F.A.P. R.T.E. 343 SECTION 2015-060RS COUNTY COOK TOTAL SHEETS 36 SHEET NO. 4 CONTRACT NO. 62B24

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

12



OMISSIONS
 STA. 46+66 TO STA. 49+55
 STA. 121+72 TO STA. 129+83
 STA. 148+67 TO STA. 153+49
 STA. 189+18 TO STA. 189+99
 STA. 195+24 TO STA. 195+60
 STA. 286+77 TO STA. 287+16

LEGEND

- ① EXISTING COMBINATION CONCRETE CURB AND GUTTER
- ② EXISTING P.C.C. BASE COURSE, 7"-10"
- ③ EXISTING PCC MEDIAN (STA. 307+11 TO STA 314+98)
- ④ EXISTING HOT-MIX ASPHALT SURFACE COURSE
- ⑤ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- ⑥ PROPOSED POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, N80, 1 3/4"
- ⑦ PROPOSED POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"
- ⑧ PROPOSED COMBINATION CONCRETE CURB AND GUTTER (WHERE NECESSARY)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (OMP)
MIXTURE TYPE	AIR VOIDS(%) AT Ndes	
PAVEMENT RESURFACING		
POLY. HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5 MM, N80, 1 3/4"	3.5% AT 80 GYR.	PPF
POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"	3.5% AT 50 GYR.	QCP
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19 MM)	4% AT 70 GYR.	QCQA
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-19 MM)	4% AT 70 GYR.	QCQA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QCQA); QUALITY FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PPF)		

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

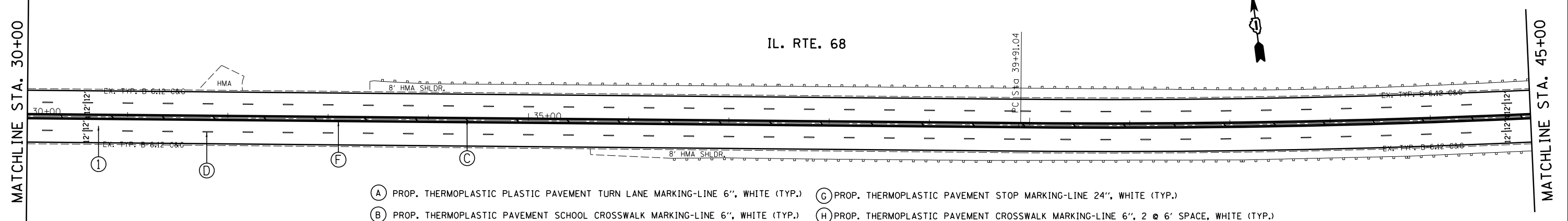
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE MIXTURE.

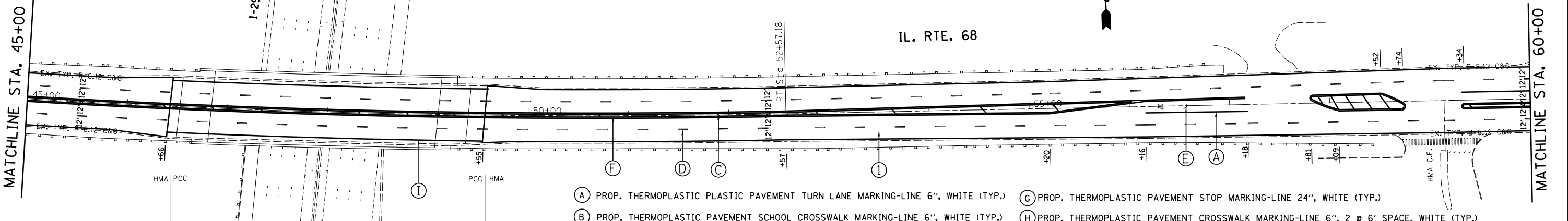
NOTE: THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING

DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS IL 68 (DUNDEE RD.)		F.A.P. RTE. 343	SECTION 2015-060RS	COUNTY COOK	TOTAL SHEETS 36	SHEET NO. 5
DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 62B24		
CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT						
DATE -	REVISED -								



- (A) PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)
- (B) PROP. THERMOPLASTIC PAVEMENT SCHOOL CROSSWALK MARKING-LINE 6", WHITE (TYP.)
- (C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", YELLOW (TYP.)
- (D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, YELLOW (TYP.)
- (E) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)
- (F) PROP. THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4" @ 11" C-C, YELLOW (TYP.)
- (G) PROP. THERMOPLASTIC PAVEMENT STOP MARKING-LINE 24", WHITE (TYP.)
- (H) PROP. THERMOPLASTIC PAVEMENT CROSSWALK MARKING-LINE 6", 2 @ 6' SPACE, WHITE (TYP.)
- (I) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", WHITE (TYP.)
- (J) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", WHITE (TYP.)
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- (M) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", YELLOW (TYP.)

(1) PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
 PROP. POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, N80, 1 3/4"
 PROP. POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"



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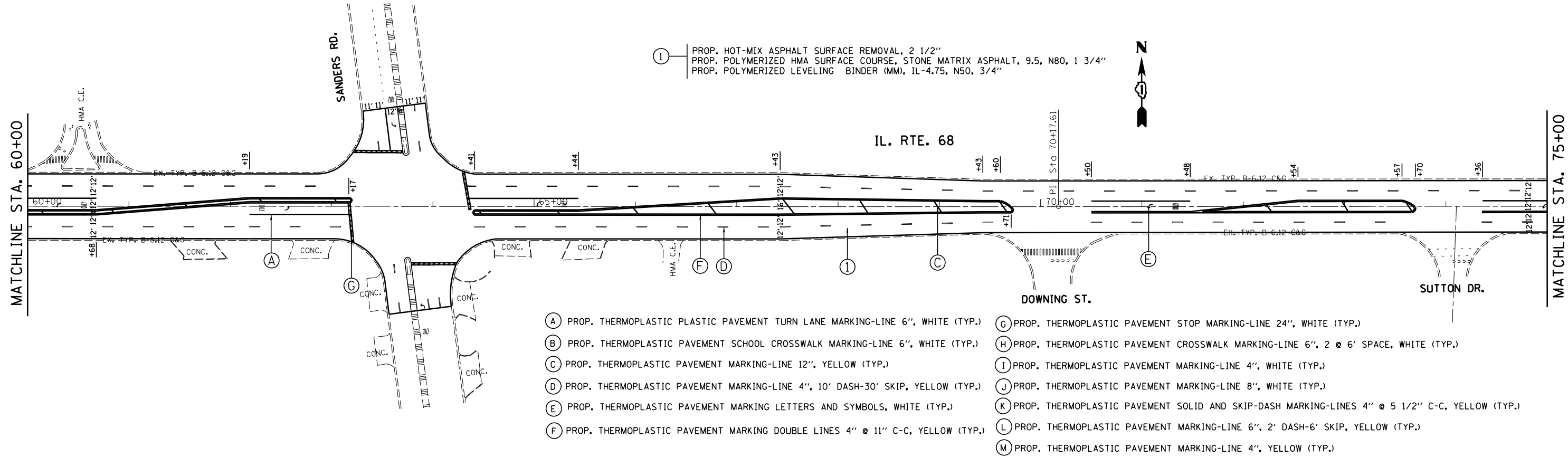
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL. ROUTE 68
 POTOWANAMI WOODS ENTRANCE TO I-94**

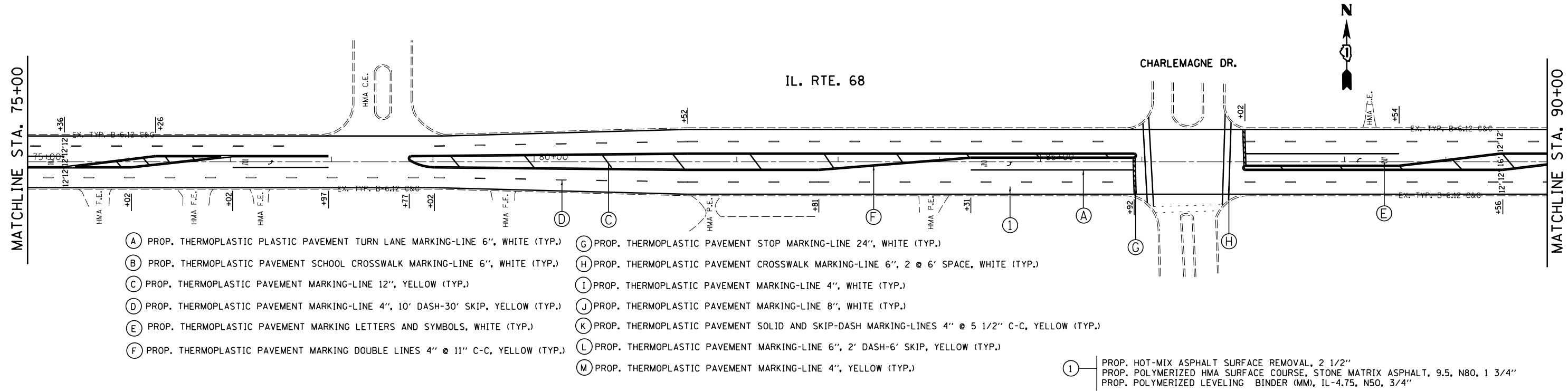
SCALE: SHEET OF SHEETS STA. 30+00 TO STA. 60+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	2015-060RS	COOK	36	7
CONTRACT NO. 62B24				
ILLINOIS FED. AID PROJECT				



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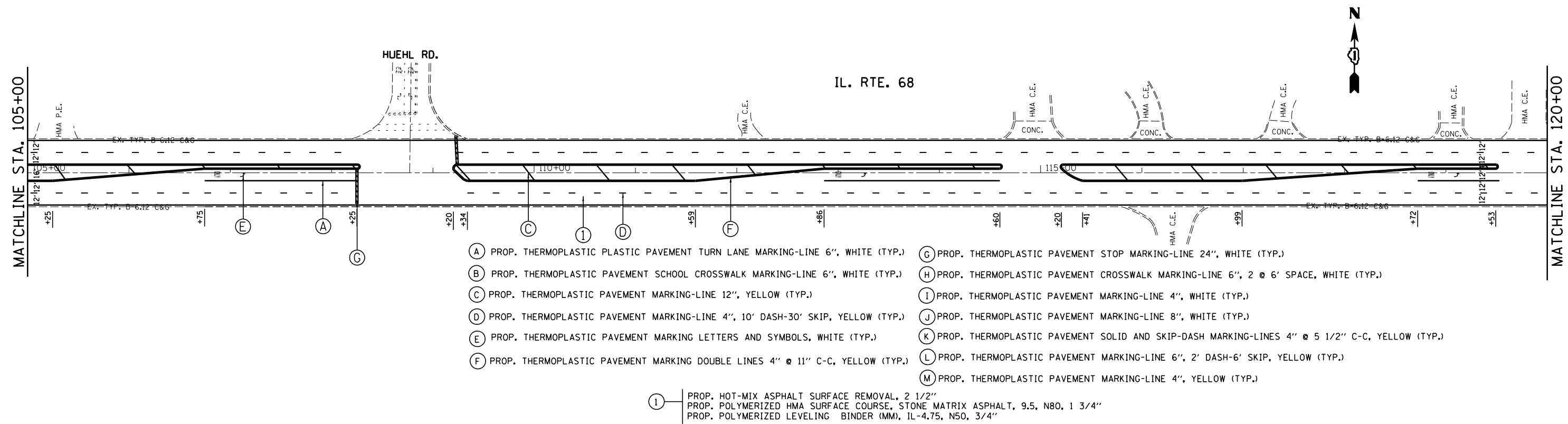
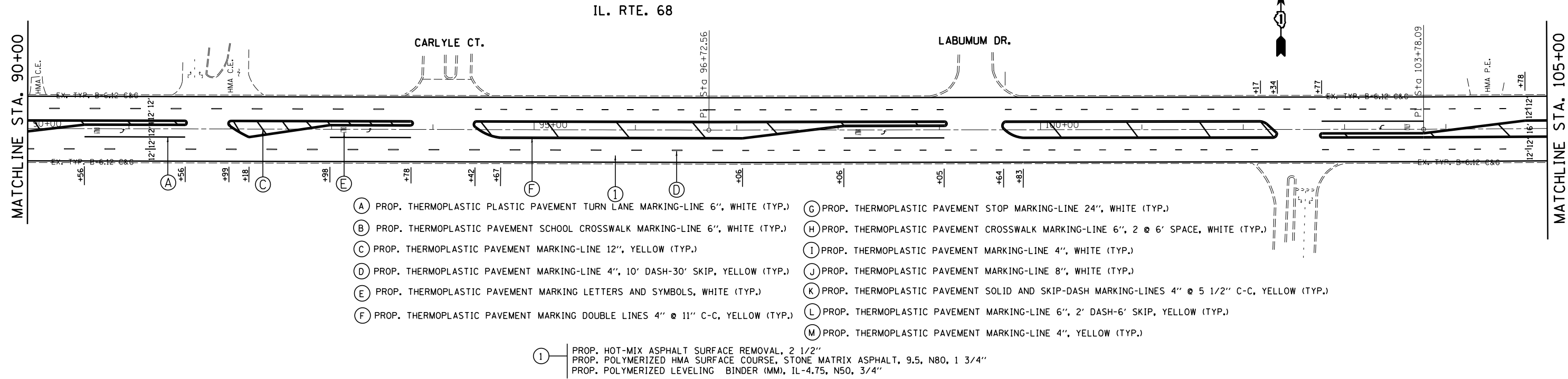
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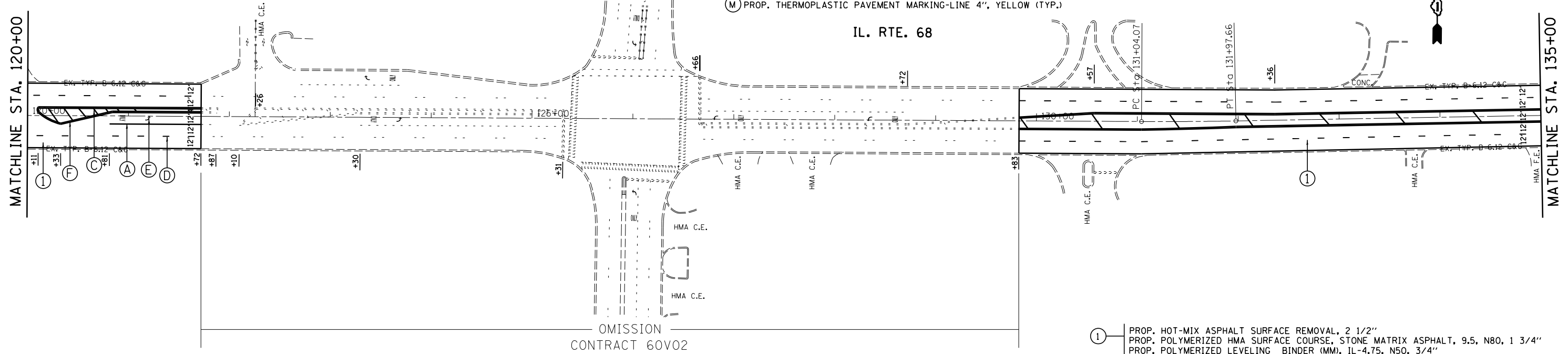
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 62B24						
	PLOT DATE = 12/16/2015	DATE -	REVISED -									



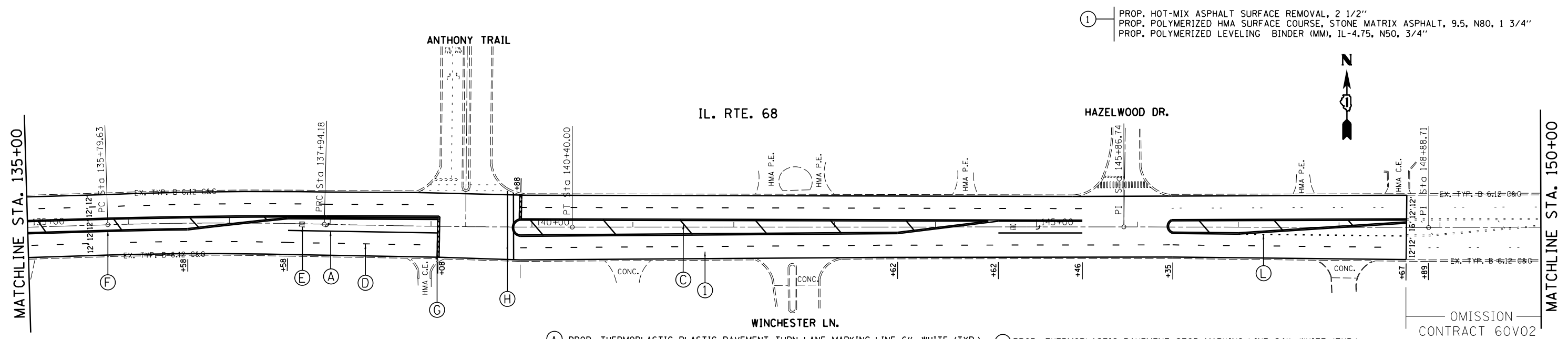
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Default	PLT SCALE = 100.0000' / in.	CHECKED -	REVISED -			SCALE: 1"=50'	SHEET OF SHEETS	STA. 90+00	TO STA. 120+00	CONTRACT NO. 62B24		
	PLT DATE = 12/16/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT						

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- (B) PROP. THERMOPLASTIC PAVEMENT SCHOOL CROSSWALK MARKING-LINE 6", WHITE (TYP.)
- (C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", YELLOW (TYP.)
- (D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, YELLOW (TYP.)
- (E) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)
- (F) PROP. THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4" @ 11" C-C, YELLOW (TYP.)

- (G) PROP. THERMOPLASTIC PAVEMENT STOP MARKING-LINE 24", WHITE (TYP.)
- (H) PROP. THERMOPLASTIC PAVEMENT CROSSWALK MARKING-LINE 6", 2 @ 6' SPACE, WHITE (TYP.)
- (I) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", WHITE (TYP.)
- (J) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 8", WHITE (TYP.)
- (K) PROP. THERMOPLASTIC PAVEMENT SOLID AND SKIP-DASH MARKING-LINES 4" @ 5 1/2" C-C, YELLOW (TYP.)
- (L) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", 2' DASH-6' SKIP, YELLOW (TYP.)
- (M) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", YELLOW (TYP.)

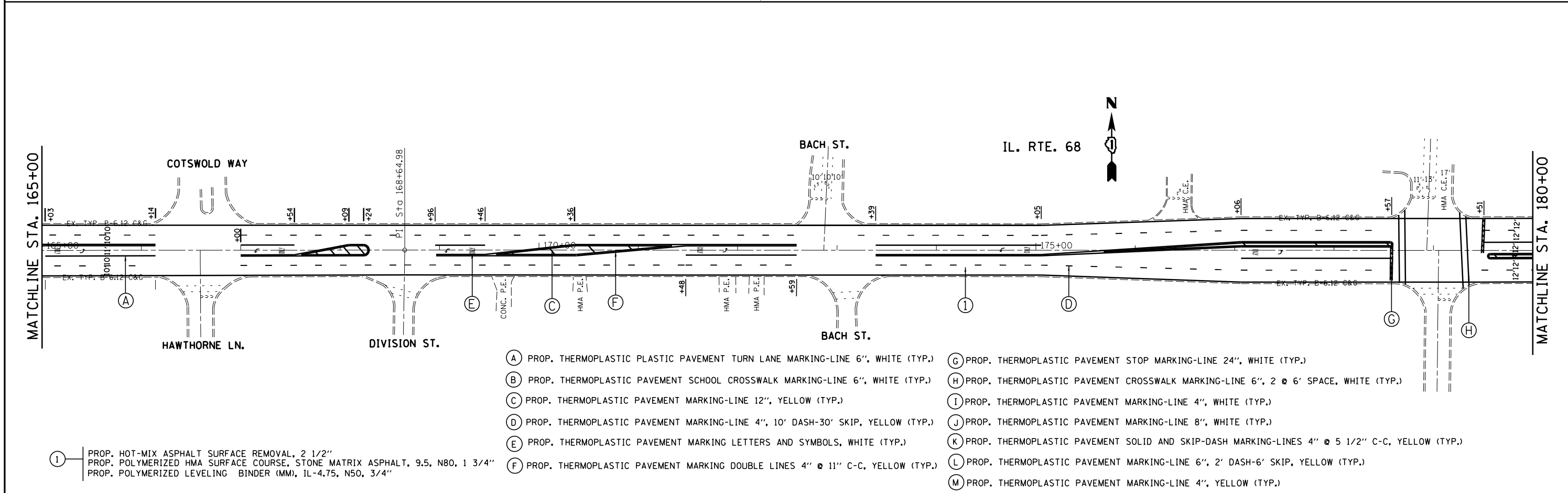
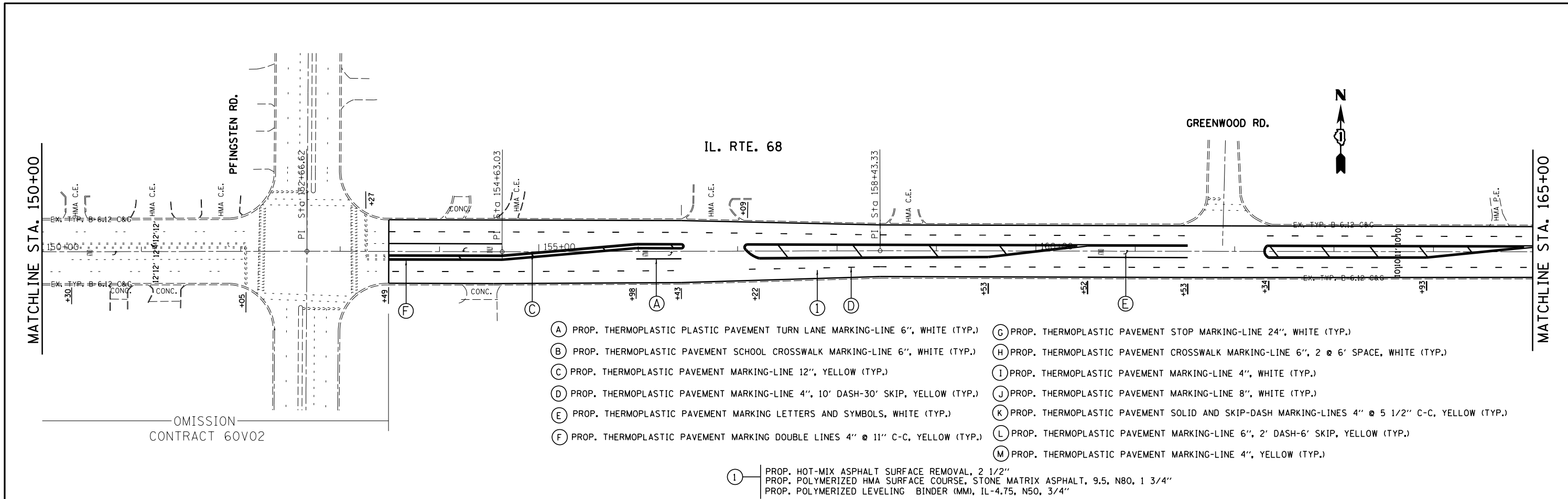


- (1) PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
PROP. POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, N80, 1 3/4"
PROP. POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"

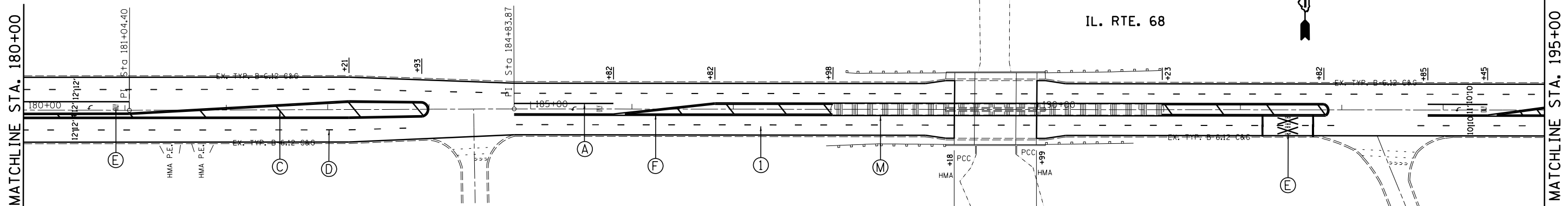


- (A) PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)
- (B) PROP. THERMOPLASTIC PAVEMENT SCHOOL CROSSWALK MARKING-LINE 6", WHITE (TYP.)
- (C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", YELLOW (TYP.)
- (D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, YELLOW (TYP.)
- (E) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)
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- (M) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", YELLOW (TYP.)

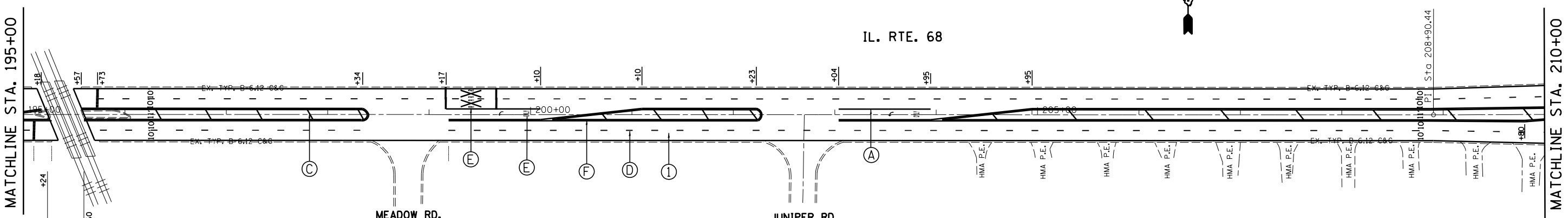
FILE NAME =	USER NAME = qureshiye	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 68 POTOWATAMI WOODS ENTRANCE TO I-94		F.A.P. RTE. 343	SECTION 2015-060RS	COUNTY COOK	TOTAL SHEETS 36	SHEET NO. 10	
Default	p:\IL\084EBID\INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\014044\Drawings\Design\0140415-sht-plen.dgn	DRAWN -	REVISED -		SCALE: 1"=50'	SHEET	OF SHEETS	STA. 120+00	TO STA. 150+00	CONTRACT NO. 62B24		
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -							ILLINOIS FED. AID PROJECT		
	PLOT DATE = 12/16/2015	DATE -	REVISED -									



FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 68 POTOWATAMI WOODS ENTRANCE TO I-94		F.A.P. RTE. 343	SECTION 2015-060RS	COUNTY COOK	TOTAL SHEETS 36	SHEET NO. 11	
pw:\il084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI404\Drawings\Design\DI40415-sht-plan.dgn	DRAWN	CHECKED -	REVISED -		SCALE: 1"=50'	SHEET	OF	SHEETS	STA.150+00	TO STA.180+00	CONTRACT NO. 62B24	
PLOT SCALE = 101.2384' / in.		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
PLOT DATE = 12/16/2015												



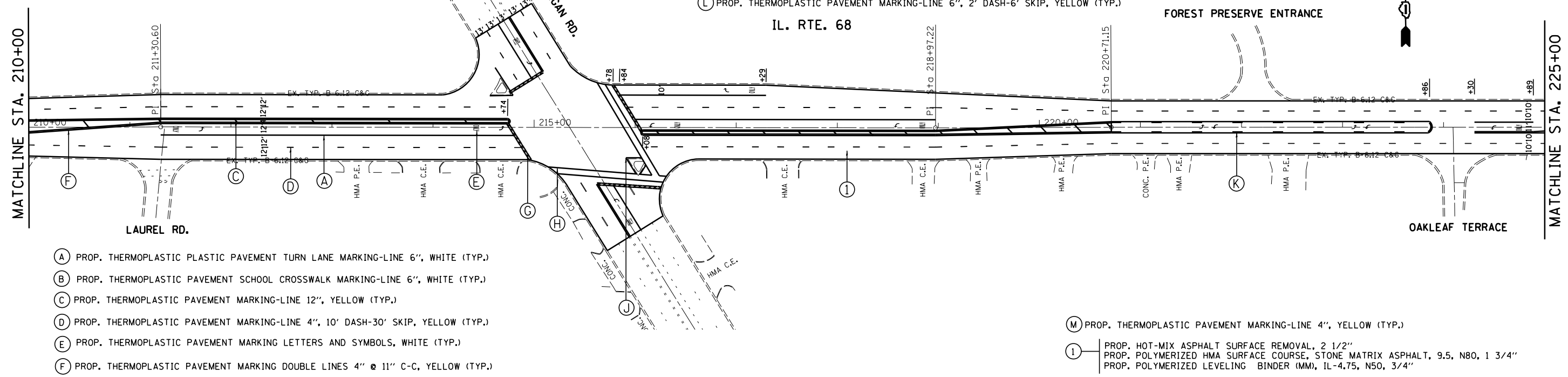
- (A) PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)
- (B) PROP. THERMOPLASTIC PAVEMENT SCHOOL CROSSWALK MARKING-LINE 6", WHITE (TYP.)
- (C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12", YELLOW (TYP.)
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- (M) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", YELLOW (TYP.)
- (N) PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
PROP. POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, N80, 1 3/4"
PROP. POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"



- (A) PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)
- (B) PROP. THERMOPLASTIC PAVEMENT SCHOOL CROSSWALK MARKING-LINE 6", WHITE (TYP.)
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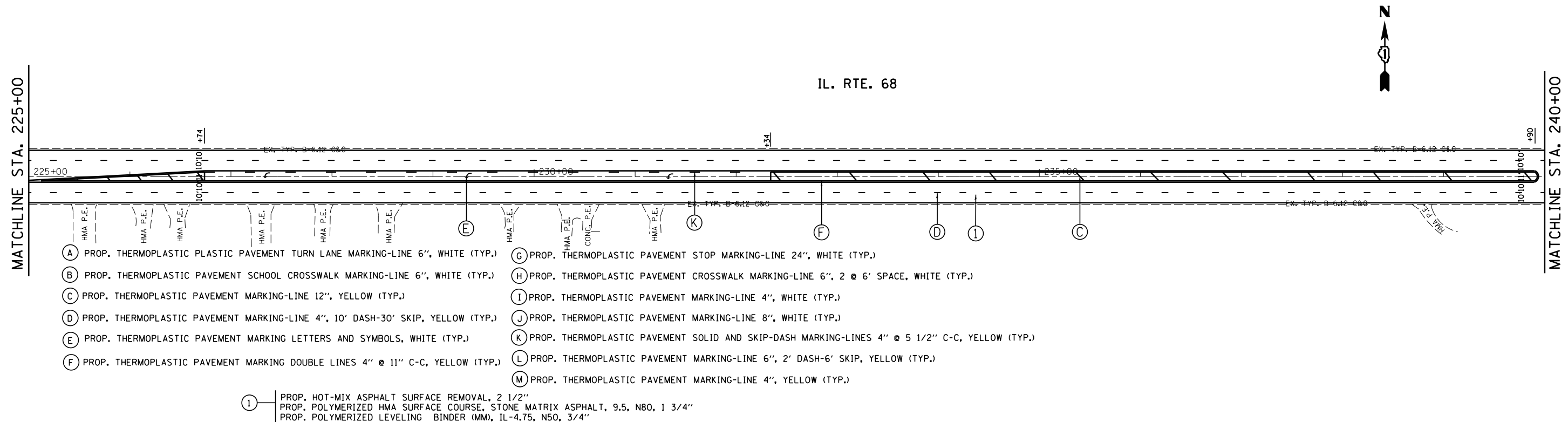
FILE NAME =	USER NAME = qureshya	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 68 POTOWATAMI WOODS ENTRANCE TO I-94	F.A.P. RTE. 343	SECTION 2015-060RS	COUNTY COOK	TOTAL SHEETS 36	SHEET NO. 12		
pw:\N\084EBID\INTEG\Illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI404\Design\DI40415-sht-plan.dgn	DRW	CHECKED -	REVISED -			SCALE: 1"=50'	SHEET OF SHEETS	STA. 180+00	TO STA. 210+00	CONTRACT NO. 62B24		
PLOT SCALE = 1/82.4767' / in.		DATE -	REVISED -			ILLINOIS FED. AID PROJECT						
PLOT DATE = 12/16/2015												

- (G) PROP. THERMOPLASTIC PAVEMENT STOP MARKING-LINE 24", WHITE (TYP.)
- (H) PROP. THERMOPLASTIC PAVEMENT CROSSWALK MARKING-LINE 6", 2 @ 6' SPACE, WHITE (TYP.)
- (I) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", WHITE (TYP.)
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- (K) PROP. THERMOPLASTIC PAVEMENT SOLID AND SKIP-DASH MARKING-LINES 4" @ 5 1/2" C-C, YELLOW (TYP.)
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- (A) PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)
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- (M) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", YELLOW (TYP.)
- (I) PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
PROP. POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, N80, 1 3/4"
PROP. POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"



- (A) PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)
- (B) PROP. THERMOPLASTIC PAVEMENT SCHOOL CROSSWALK MARKING-LINE 6", WHITE (TYP.)
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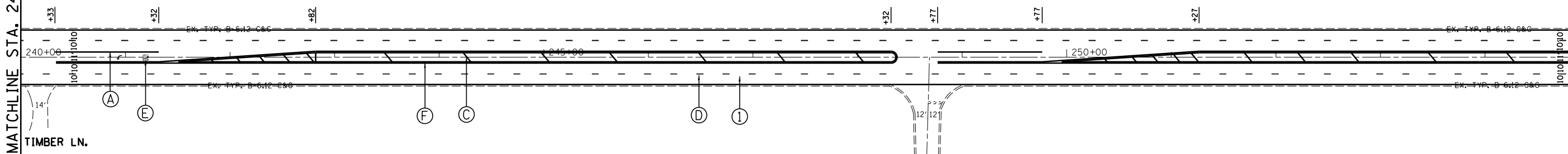
- (I) PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
PROP. POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, N80, 1 3/4"
PROP. POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"

FILE NAME =	USER NAME = qureshya	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 68 POTOWATAMI WOODS ENTRANCE TO I-94	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\1\084EBID\INTEG\Illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI404\Design\DI40415-sht-plan.dgn	DRWN	CHECKED -	REVISED -			343	2015-060RS	COOK	36	13
PLOT SCALE = 1/8" = 1' / in.		DATE -	REVISED -			CONTRACT NO. 62B24			ILLINOIS FED. AID PROJECT	
PLOT DATE = 12/16/2015						SCALE: 1"=50'			SHEET OF SHEETS STA. 210+00 TO STA. 240+00	

MATCHLINE STA. 240+00

IL. RTE. 68

MATCHLINE STA. 255+00

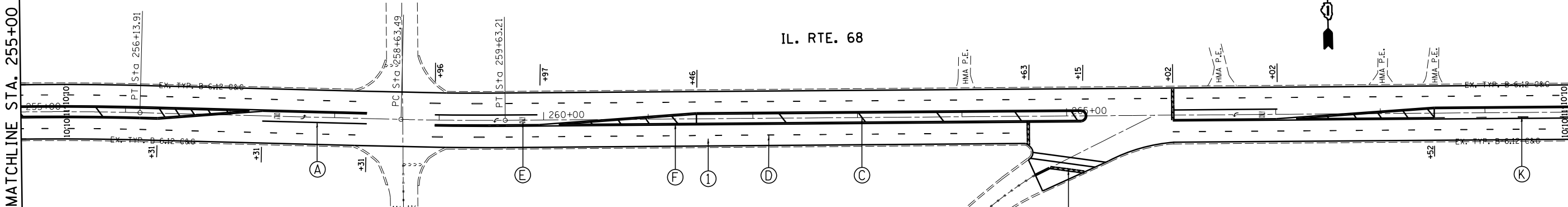


- (A) PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)
- (B) PROP. THERMOPLASTIC PAVEMENT SCHOOL CROSSWALK MARKING-LINE 6", WHITE (TYP.)
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- (1) PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
PROP. POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, N80, 1 3/4"
PROP. POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"

MATCHLINE STA. 255+00

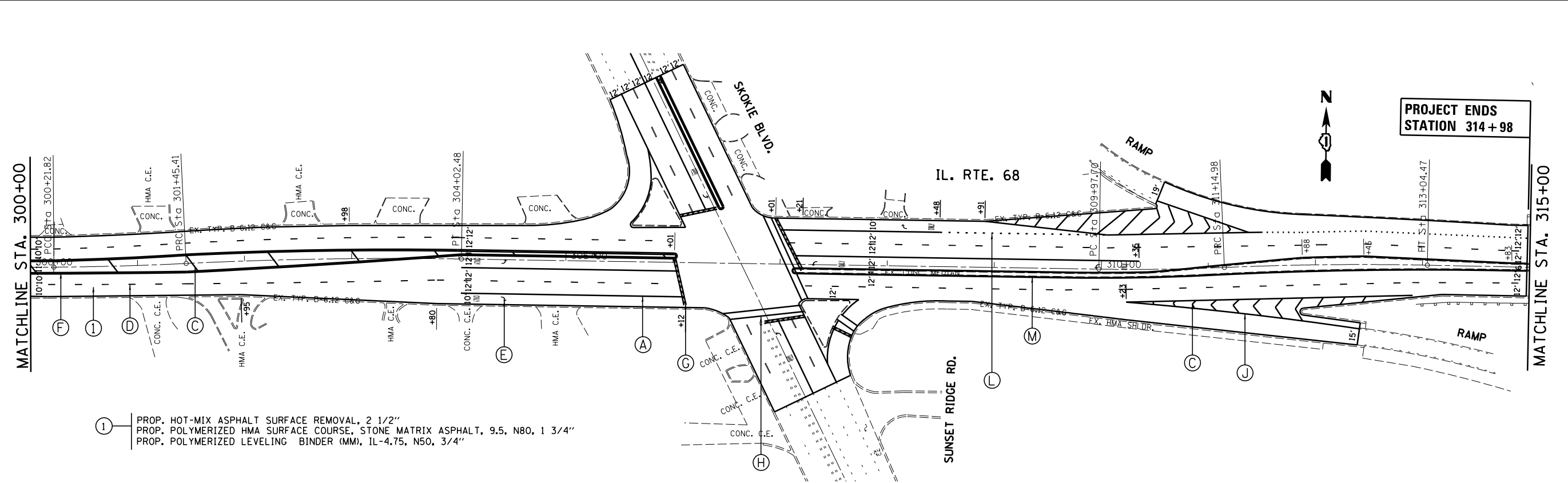
IL. RTE. 68

MATCHLINE STA. 270+00



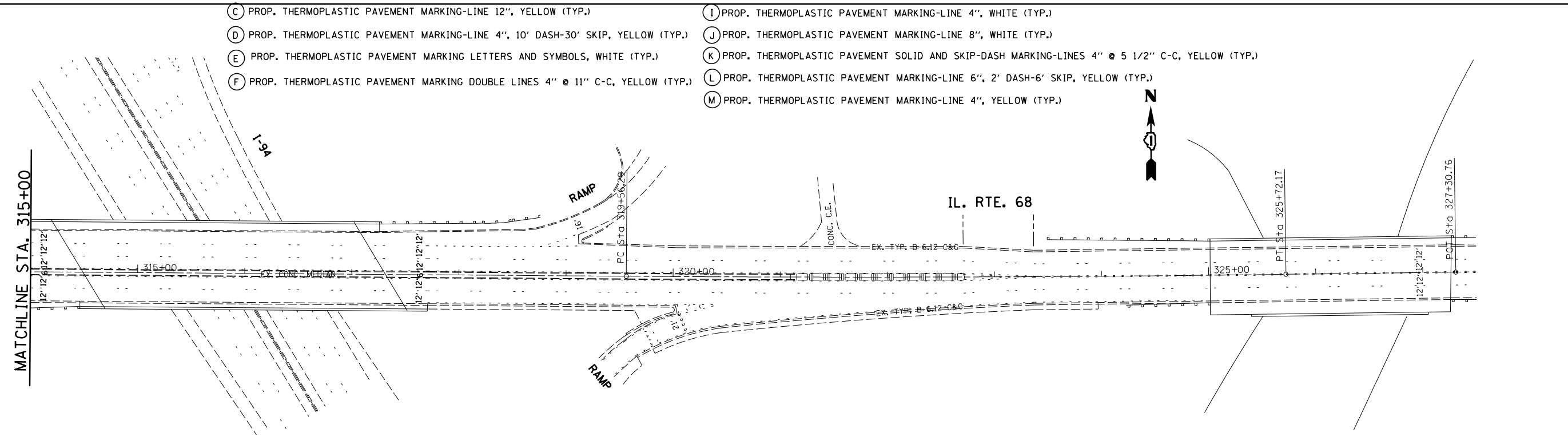
- (A) PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)
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- (1) PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
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FILE NAME =	USER NAME = qureshya	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 68 POTOWATAMI WOODS ENTRANCE TO I-94		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\il\084EBID\INTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI404\Drawings\Design\DI40415-sht-plan.dgn		CHECKED -	REVISED -		343	2015-060RS	COOK	36	14		
PLOT SCALE = 102.4767' / in.		DATE -	REVISED -		SCALE: 1"=50'		SHEET OF SHEETS STA. 240+00 TO STA. 270+00		CONTRACT NO. 62B24		
PLOT DATE = 12/16/2015					ILLINOIS FED. AID PROJECT						



(I) PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
 PROP. POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, N80, 1 3/4"
 PROP. POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50, 3/4"

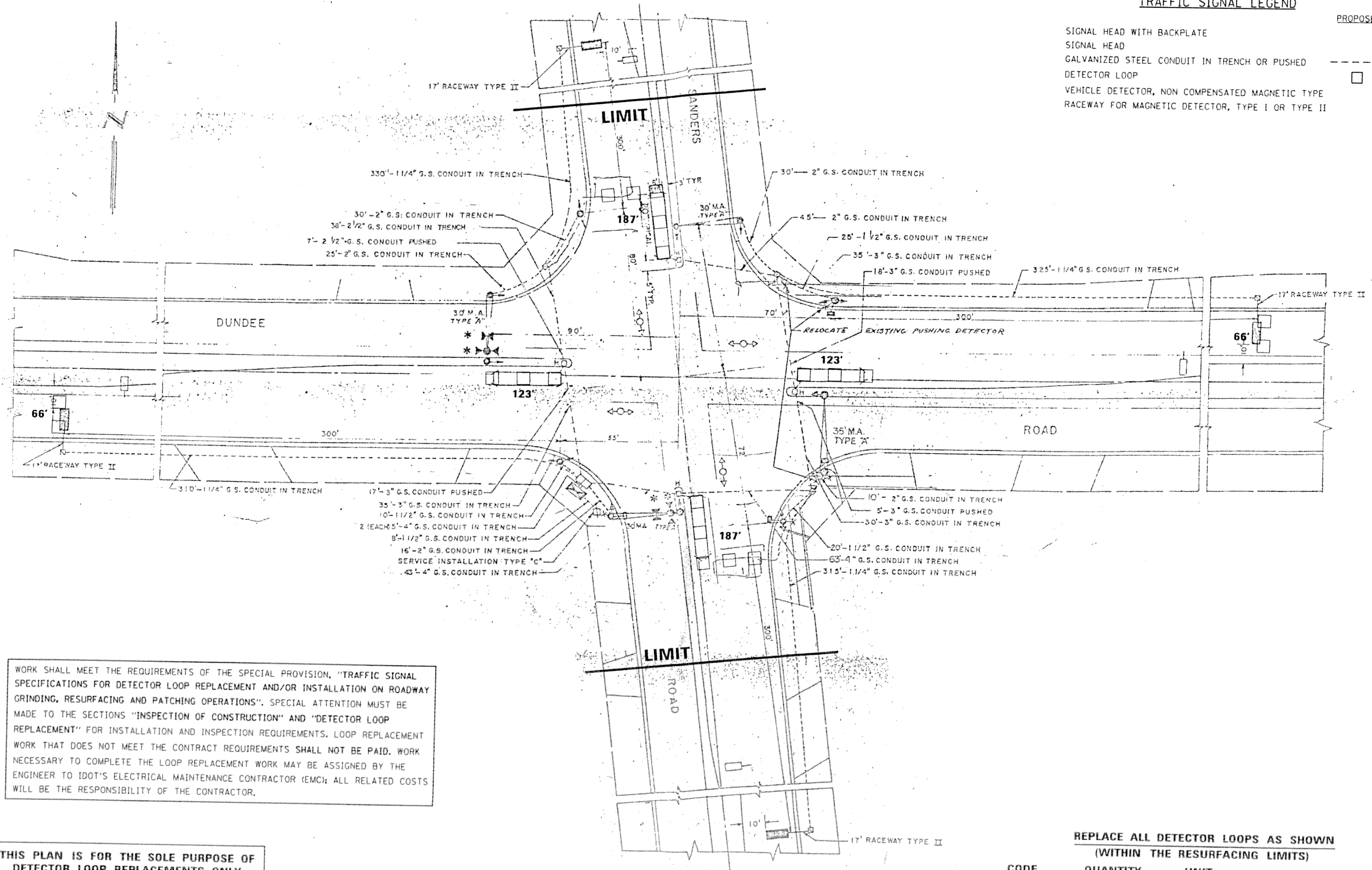
- (A) PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)
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FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 68 POTOWATAMI WOODS ENTRANCE TO I-94	F.A.P. RTE. 343	SECTION 2015-060RS	COUNTY COOK	TOTAL SHEETS 36	SHEET NO. 16	
pw:\N\084EBID\INTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI404\Drawings\Design\DI40415-sht-plan.dgn	DRWN	REVISED -	REVISED -			CONTRACT NO. 62B24					
PLOT SCALE = 1/82.4767' / in.	CHECKED -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT					
PLOT DATE = 12/16/2015	DATE -	REVISED -	REVISED -			SCALE: 1"=50' SHEET OF SHEETS STA. 300+00 TO STA. 327+30.76					

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD		
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED		
DETECTOR LOOP		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		



WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

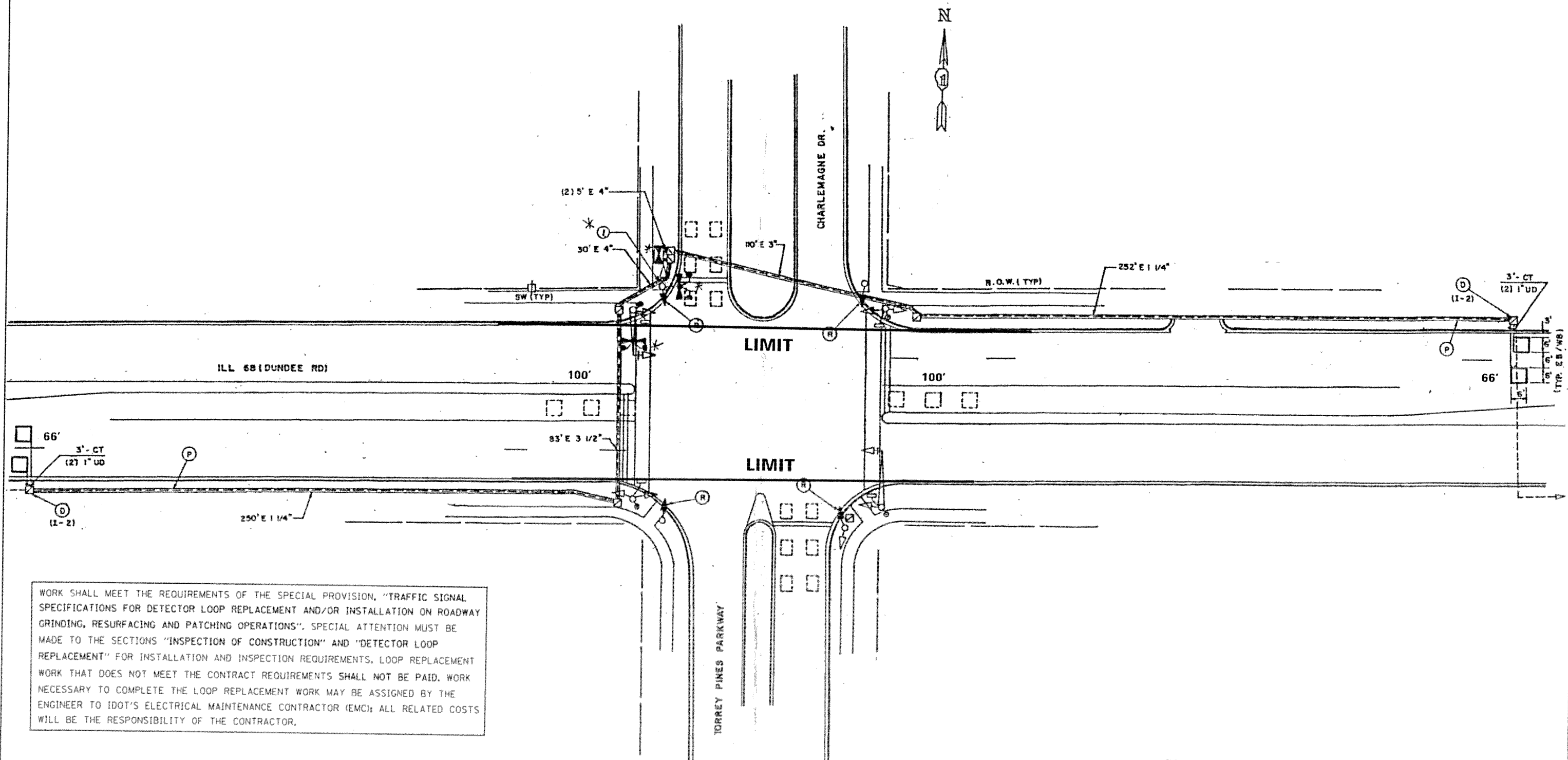
THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM	TS-3170
88600600	752	FOOT	DETECTOR LOOP REPLACEMENT	

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD		
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED		
DETECTOR LOOP		
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WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

**THIS PLAN IS FOR THE SOLE PURPOSE OF
DETECTOR LOOP REPLACEMENTS ONLY**

**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS) TS 3115**

CODE	QUANTITY	UNIT	ITEM
88600600	332'	FOOT	DETECTOR LOOP REPLACEMENT

FILE NAME =	USER NAME = nguyenan	DESIGNED - SN	REVISED -
S:\WP\Design\SN\B. of Design - Resurfacing project - Detector Loops Replacement\6284\DRAWING IL 68\15 3115 - IL 68 Dundee Rd\REVISED Charlemagne-Torrey Pines.dgn		CHECKED -	REVISED -
		DATE - 10/01/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

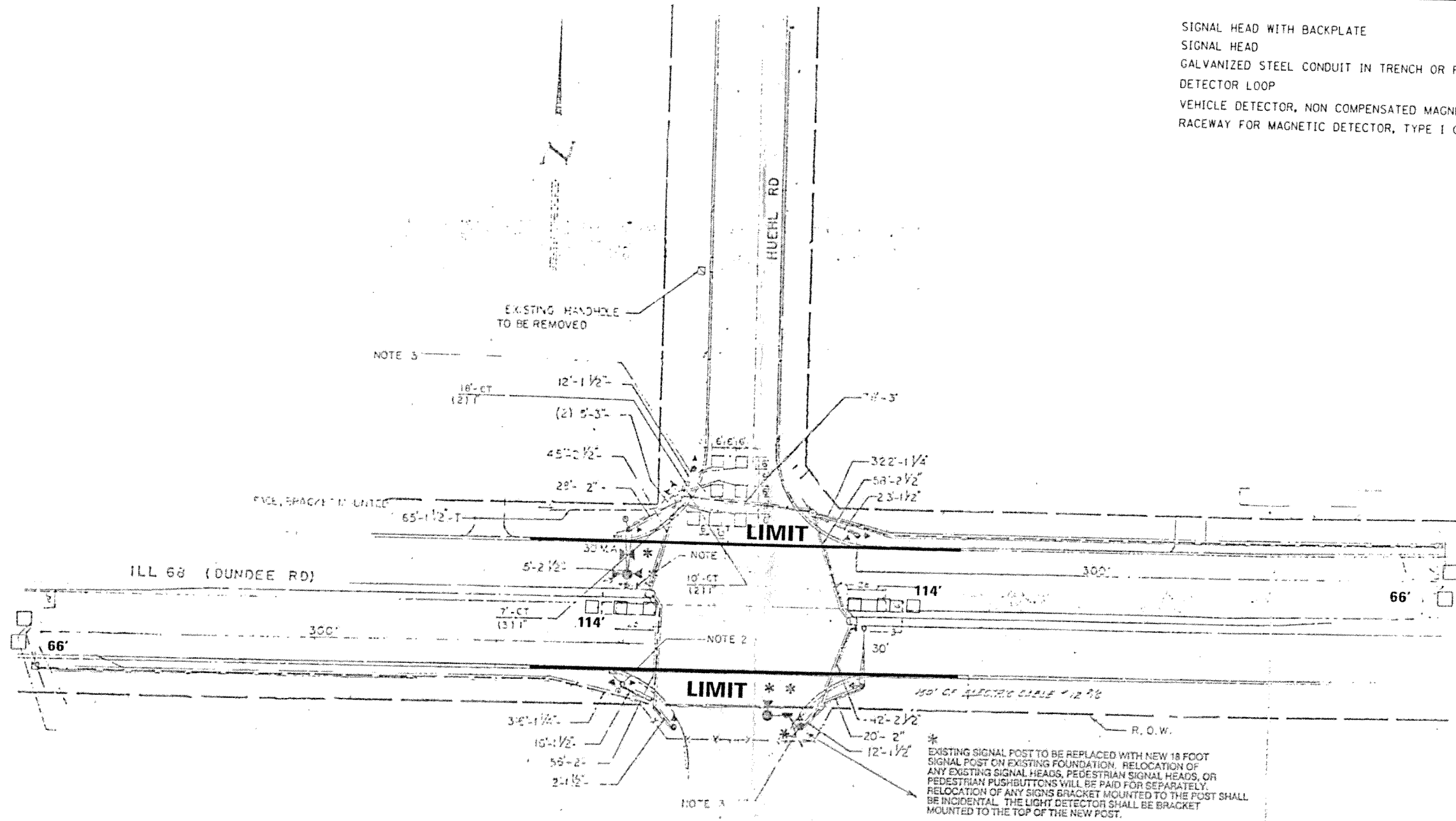
**DISTRICT ONE - DETECTOR LOOP REPLACEMENT
IL 68 (Dundee Rd) and Charlemagne/Torrey Pines**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	2015-060RS	COOK	36	18
CONTRACT NO.			62824	

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

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD		
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED		
DETECTOR LOOP		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		



WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM	TS-3125
88600600	360	FOOT	DETECTOR LOOP REPLACEMENT	

FILE NAME =	USER NAME = nguyenan	DESIGNED - SN	REVISED -
S:\WP\Design\SN\8. of Design - Resurfacing project - Detector Loops Replacement\628		DRW\KWK IL 68\15 3125 - IL 68 Dundee Rd	REVISED
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/7/2015	DATE = 10/01/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE - DETECTOR LOOP REPLACEMENT
ILL 68 (Dundee Rd) and Huehl Rd**

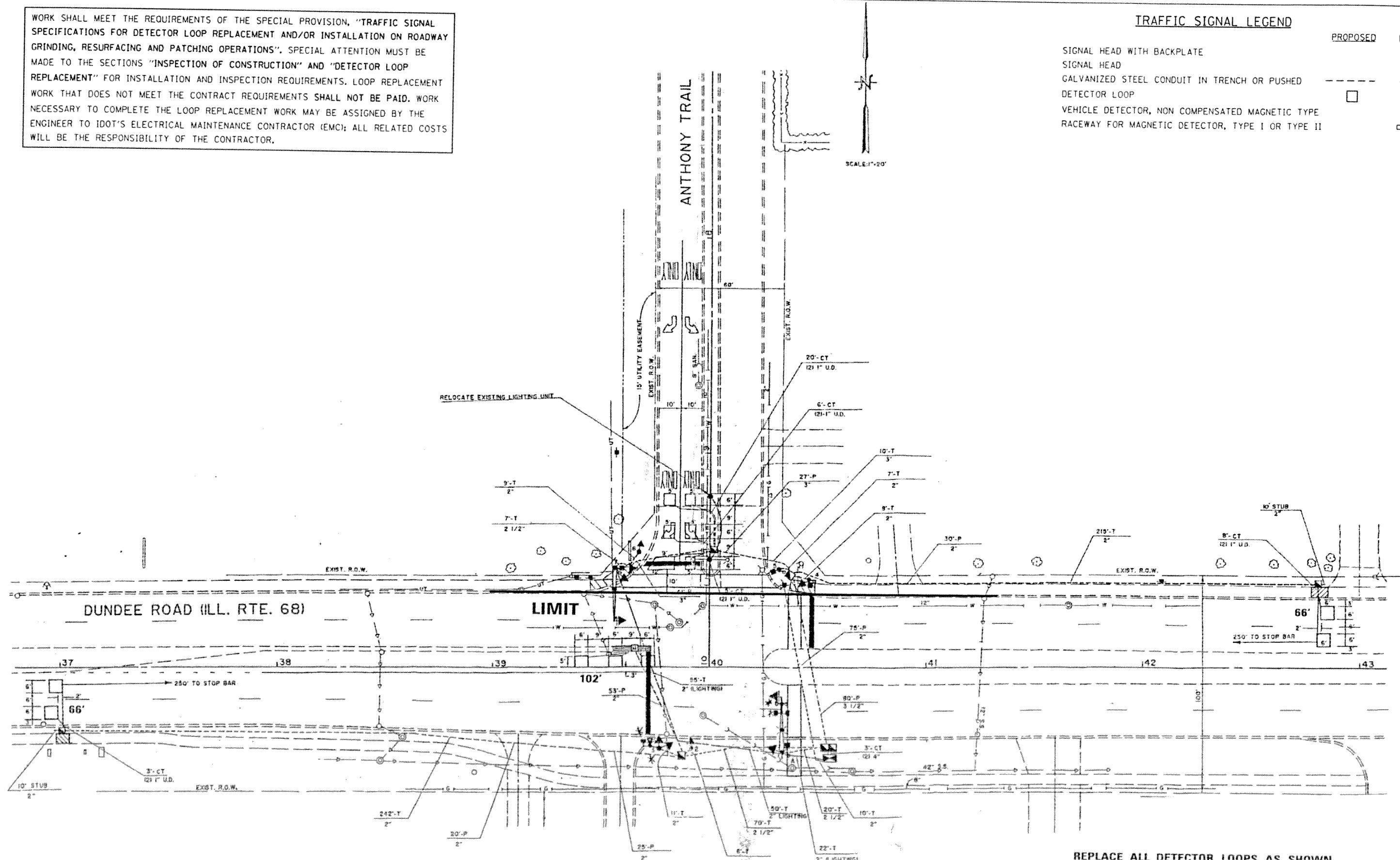
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	2015-060RS	COOK	36	19

SCALE: NTS SHEET NO. OF SHEETS

WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD		
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED		
DETECTOR LOOP		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		



SCALE: 1"=20'

THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM
88600600	234	FOOT	DETECTOR LOOP REPLACEMENT

TS-3137

FILE NAME :	USER NAME : nguyensh	DESIGNED - SM	REVISED -
S:\WP\Design\SN\B. of Design - Resurfacing	project - Detector Loops Replacement\628	DRAWN IL 68\TS 3137 - IL 68 Dundee Rd	REVISED: Trasil.dgn
	PLOT SCALE : 1/8"=1'-0"	CHECKED -	REVISED -
	PLOT DATE : 10/7/2015	DATE - 10/01/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

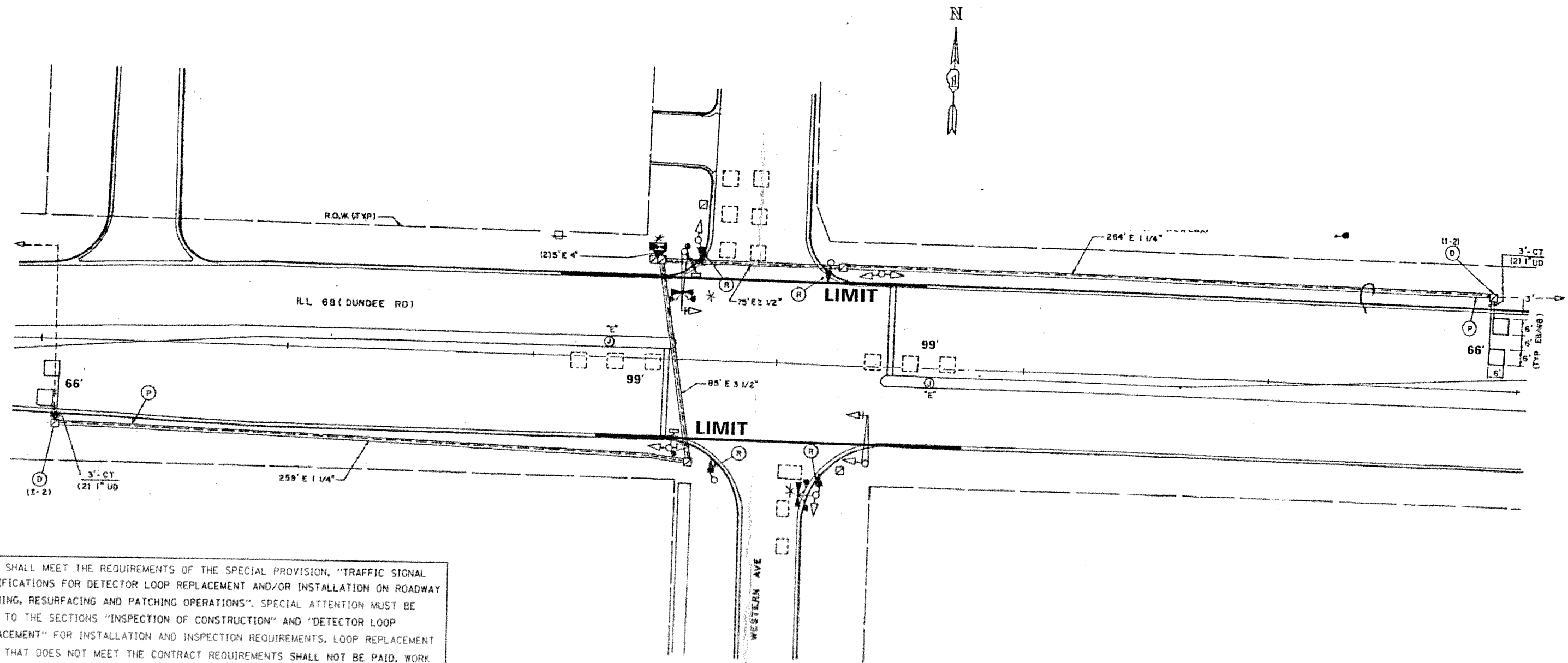
**DISTRICT ONE - DETECTOR LOOP REPLACEMENT
IL.68 (Dundee Rd) and Anthony Trail**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	2015-060RS	COOK	36	20
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	CONTRACT NO. 62B24

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

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
SIGNAL HEAD WITH BACKPLATE	⊕	⊕
SIGNAL HEAD	⊕	⊕
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED	---	---
DETECTOR LOOP	□	□
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE	⊕	⊕
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II	⊕	⊕



WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS) TS-3195

CODE	QUANTITY	UNIT	ITEM
88600600	330	FOOT	DETECTOR LOOP REPLACEMENT

FILE NAME :	USER NAME : nguyens	DESIGNED : SN	REVISED : -
S:\WP\Design\SN\B. of Design - Resurfacing project - Detector Loops Replacement\628		DRAWN : IL 68\TS 3195 - IL 68 Dundee Rd	REVISED : Ave.dgn
	PLOT SCALE : 100.0000 / in.	CHECKED : -	REVISED : -
	PLOT DATE : 10/7/2015	DATE : 10/01/2016	REVISED : -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE - DETECTOR LOOP REPLACEMENT
IL.68 (Dundee Rd) and Western Ave**

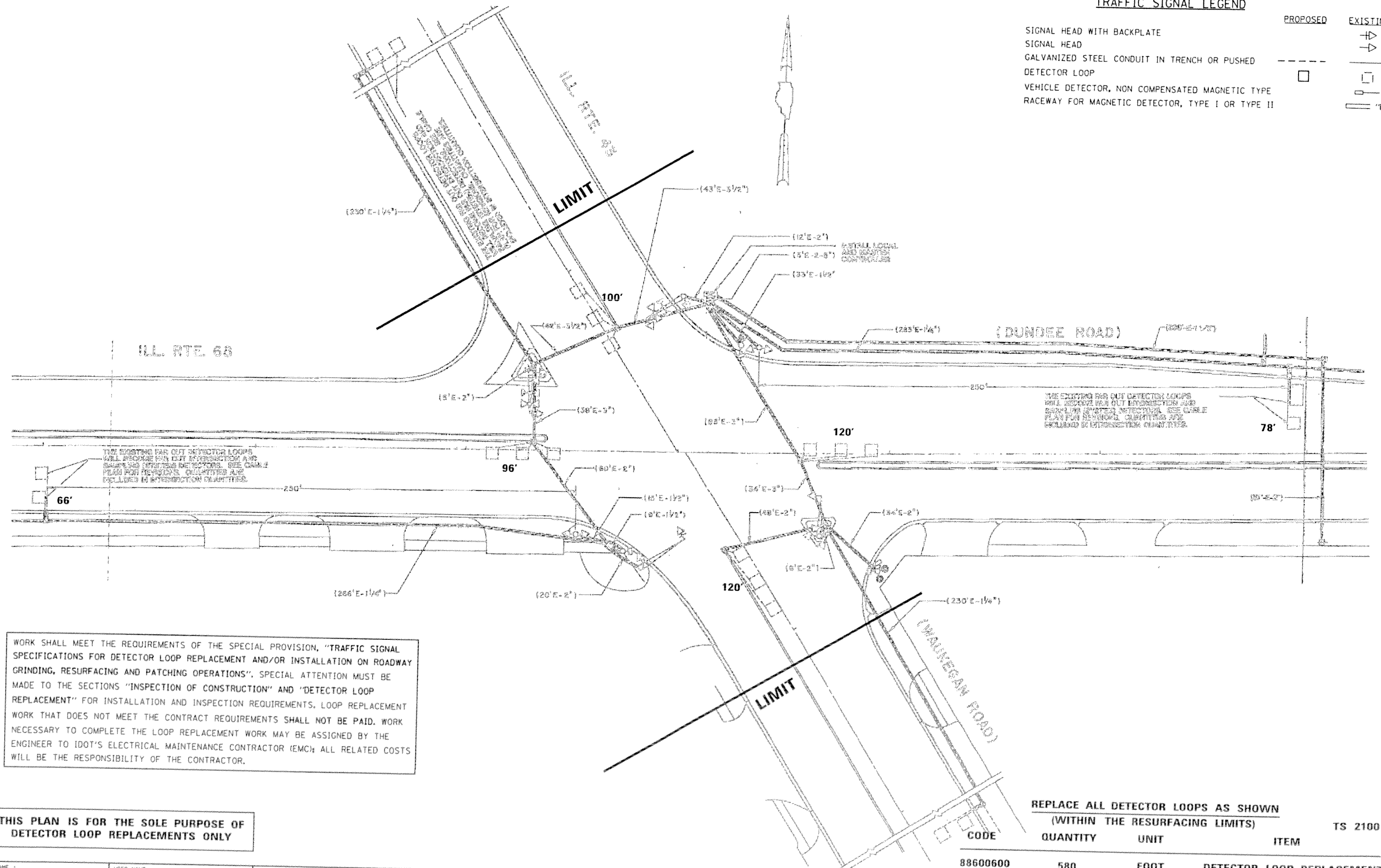
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	2015-060RS	COOK	36	21
CONTRACT NO.			62824	

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

FED. ROAD DIST. NO. ILLINDOT PROJECT

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD		
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED		
DETECTOR LOOP		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		



WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

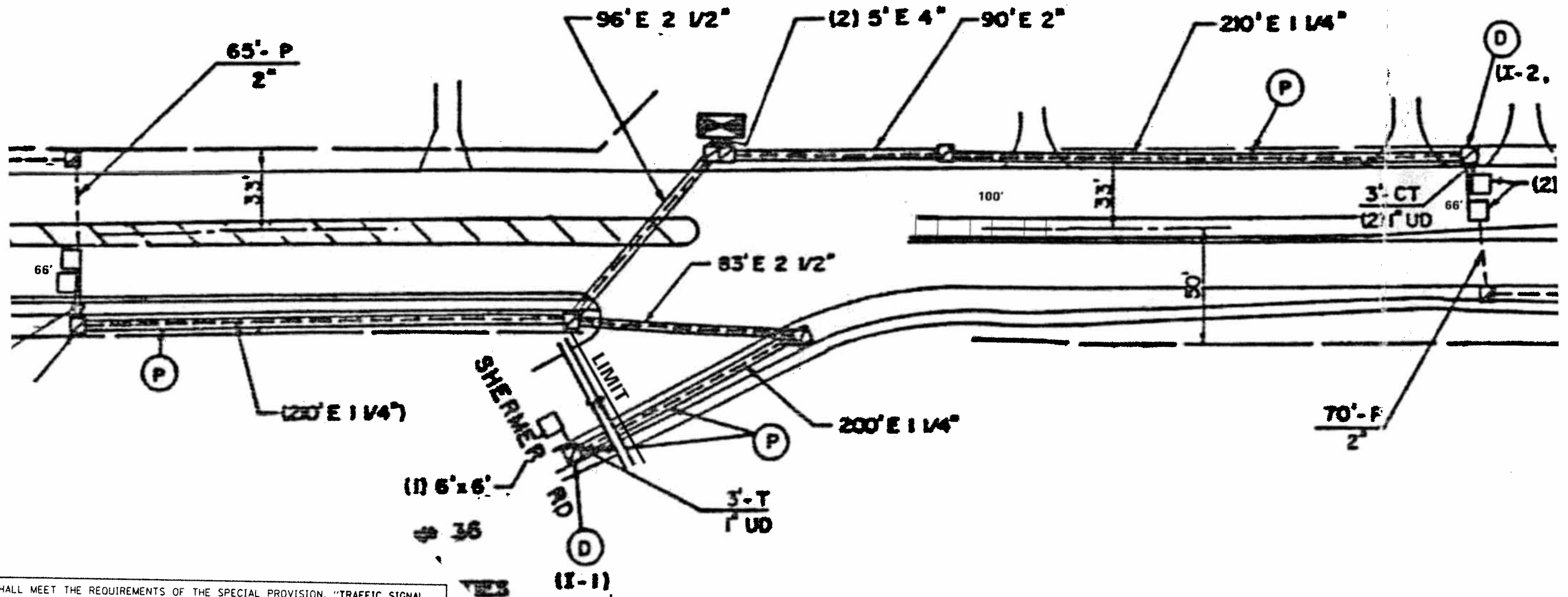
THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)				TS 2100
CODE	QUANTITY	UNIT	ITEM	
88600600	580	FOOT	DETECTOR LOOP REPLACEMENT	

FILE NAME : S:\WP\Design\SN\B. of Design - Resurfacing project - Detector Loops Replacement\628	USER NAME : nguyenam	DESIGNED - SN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE - DETECTOR LOOP REPLACEMENT IL 43 (Waukegan Rd) and IL 68 (Dundee Rd)	F.A. RTE. 343	SECTION 2015-060RS	COUNTY COOK	TOTAL SHEETS 36	SHEET NO. 12
PLT SCALE : 1/8" = 1'-0"	CHECKED -	REVISIONS: Dundee Rd.dgn	REVISOR -			SCALE: NTS	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 62824	
PLT DATE : 10/17/2015	DATE : 10/01/2016									

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD		
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED		
DETECTOR LOOP		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		



WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

TS-3180

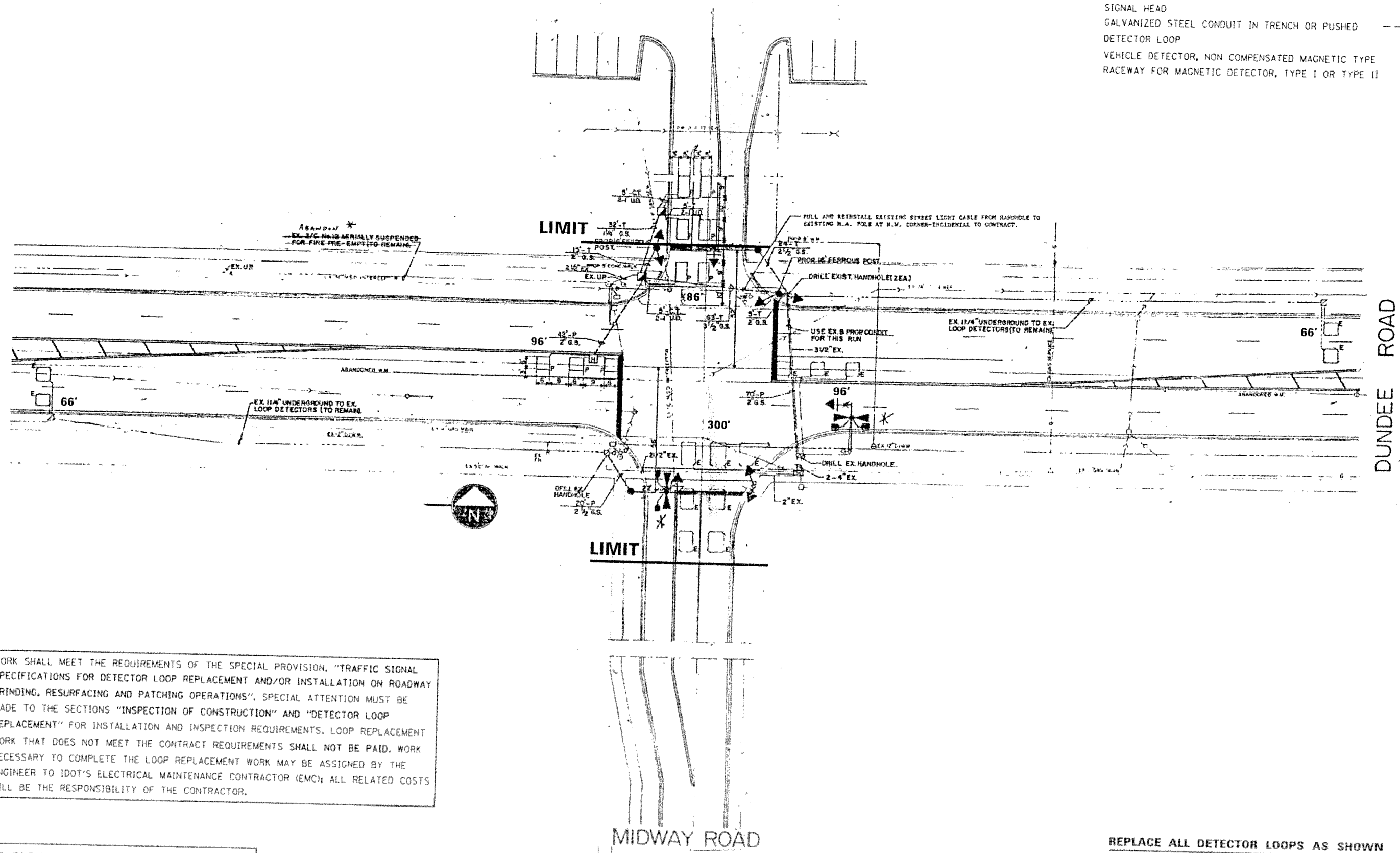
CODE	QUANTITY	UNIT	ITEM
88600600	232	FOOT	DETECTOR LOOP REPLACEMENT

FILE NAME :	USER NAME : ngyuan	DESIGNED : SN	REVISED :	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE - DETECTOR LOOP REPLACEMENT IL.68 (Dundee Rd) and Shermer Rd	SCALE: NTS	SHEET NO. OF SHEETS STA. TO STA.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SLWP\Design\SN\B. of Design - Resurfacing	PROJECT : Detector Loops Replacement\62824	DRAWN : IL 68\TS 3180 - IL 68 Dundee Rd	REMOVED: Rd sign					343	2015-060RS	COOK	36	23
	PLOT SCALE = 1/8"=1'-0"	CHECKED :	REVISED :									
	PLOT DATE = 10/7/2015	DATE : 10/01/2016	REVISED :									CONTRACT NO. 62824

PROP EDENS CORPORATE CENTER

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD		
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED		
DETECTOR LOOP		
VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE		
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II		



WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM	TS-3140
88600600	710	FOOT	DETECTOR LOOP REPLACEMENT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE - DETECTOR LOOP REPLACEMENT
IL.68 (Dundee Rd) and Midway Rd

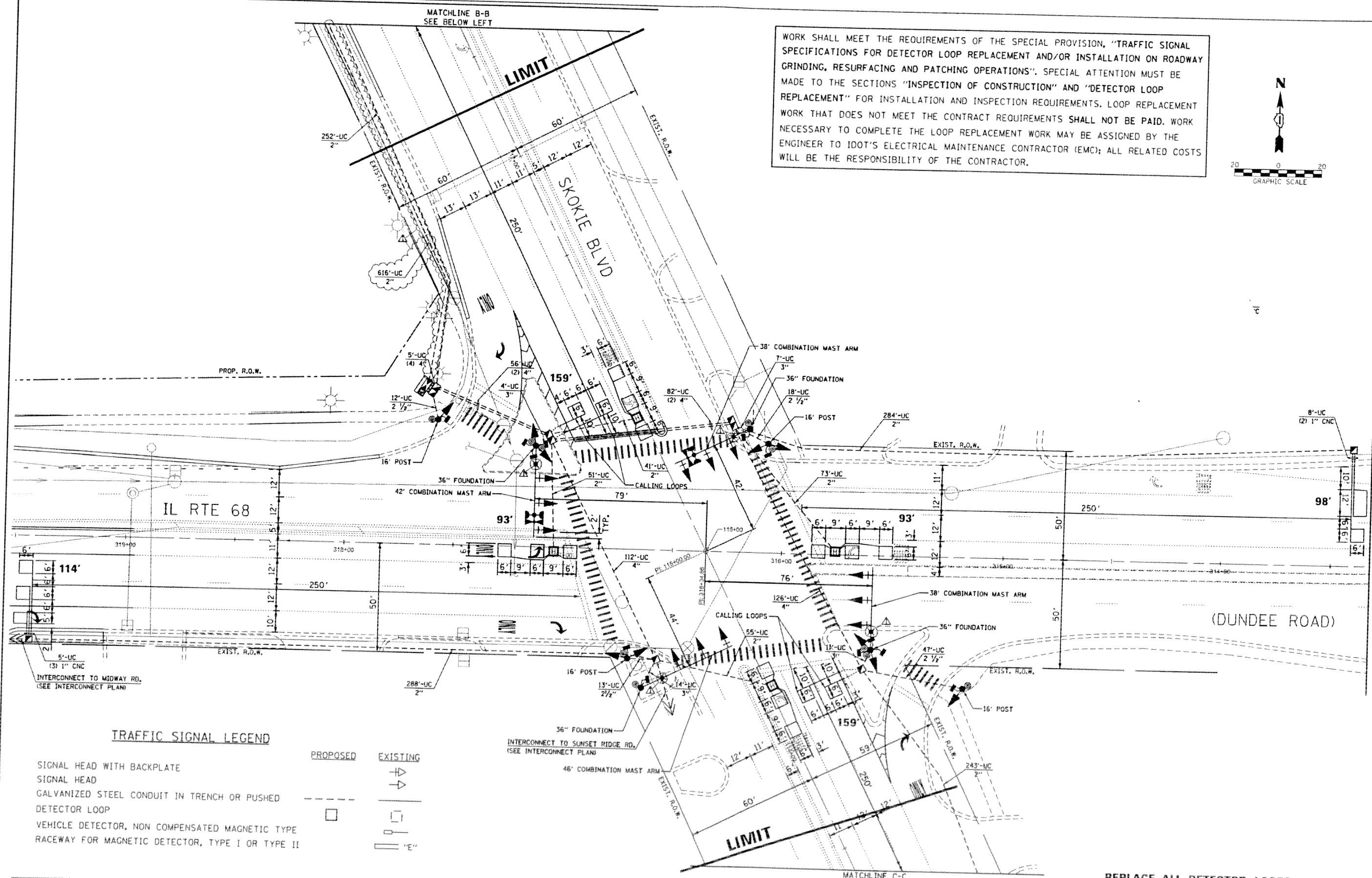
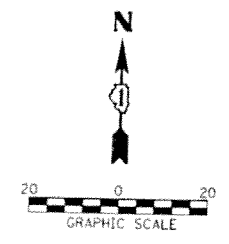
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	2015-060RS	COOK	36	24

FILE NAME :	USER NAME :	DESIGNED :	REVISED :
S:\WP\Design\SNVB of Design - Resurfacing project - Detector Loops Replacement\62B\4DRAWN	nguyenam	SH	
		IL 68\15 3148 - IL 68 Dundee Rd	REVISED
		DATE	REVIS
		10/01/2016	

SCALE: NTS SHEET NO. OF SHEETS

CONTRACT NO. 62R24

WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.



TRAFFIC SIGNAL LEGEND

- | | | |
|--|----------|----------|
| SIGNAL HEAD WITH BACKPLATE | PROPOSED | EXISTING |
| SIGNAL HEAD | | |
| GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED | | |
| DETECTOR LOOP | | |
| VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE | | |
| RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II | | |

THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM	TS-3185
88600600	716	FOOT	DETECTOR LOOP REPLACEMENT	

FILE NAME : S:\WP\Design\SNB of Design - Resurfacing project - Detector Loops Replacement\628	USER NAME : nguyensh	DESIGNED : SH	REVISED :
PLOT SCALE : 1/8" = 1'-0"	CHECKED :	DATE : 10/01/2016	REVISED :
PLOT DATE : 10/17/2015	DATE :		

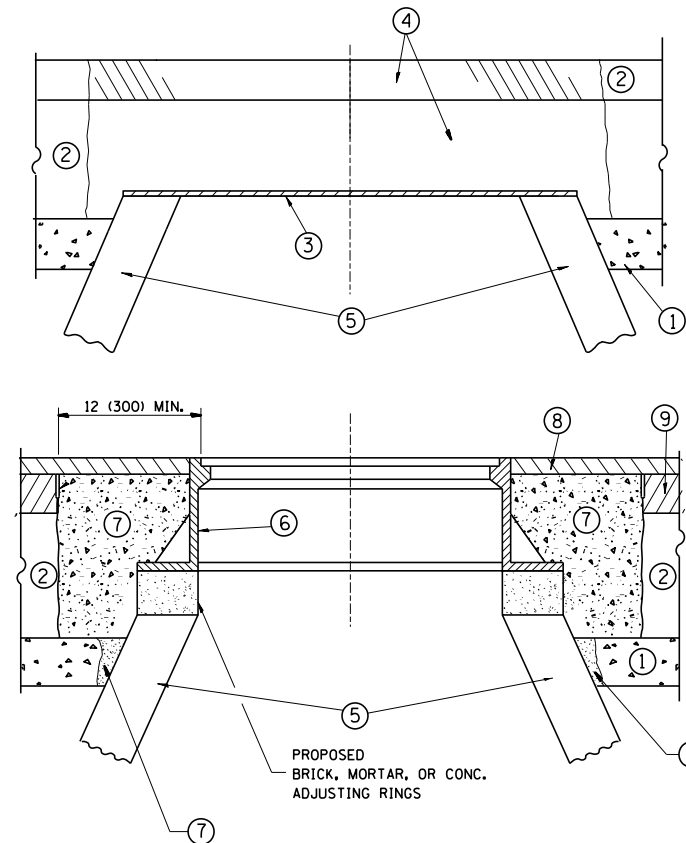
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE - DETECTOR LOOP REPLACEMENT
IL.68 (Dundee Rd) and Skokie Blvd**

F.A. RTE. 343	SECTION 2015-060RS	COUNTY COOK	TOTAL SHEETS 36	SHEET NO. 25
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SCALE: NTS SHEET NO. OF SHEETS

CONTRACT NO. 62824



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

STAGE 2 (AFTER PAVEMENT MILLING)

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

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT:

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

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

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

NOTES:

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

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

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

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

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

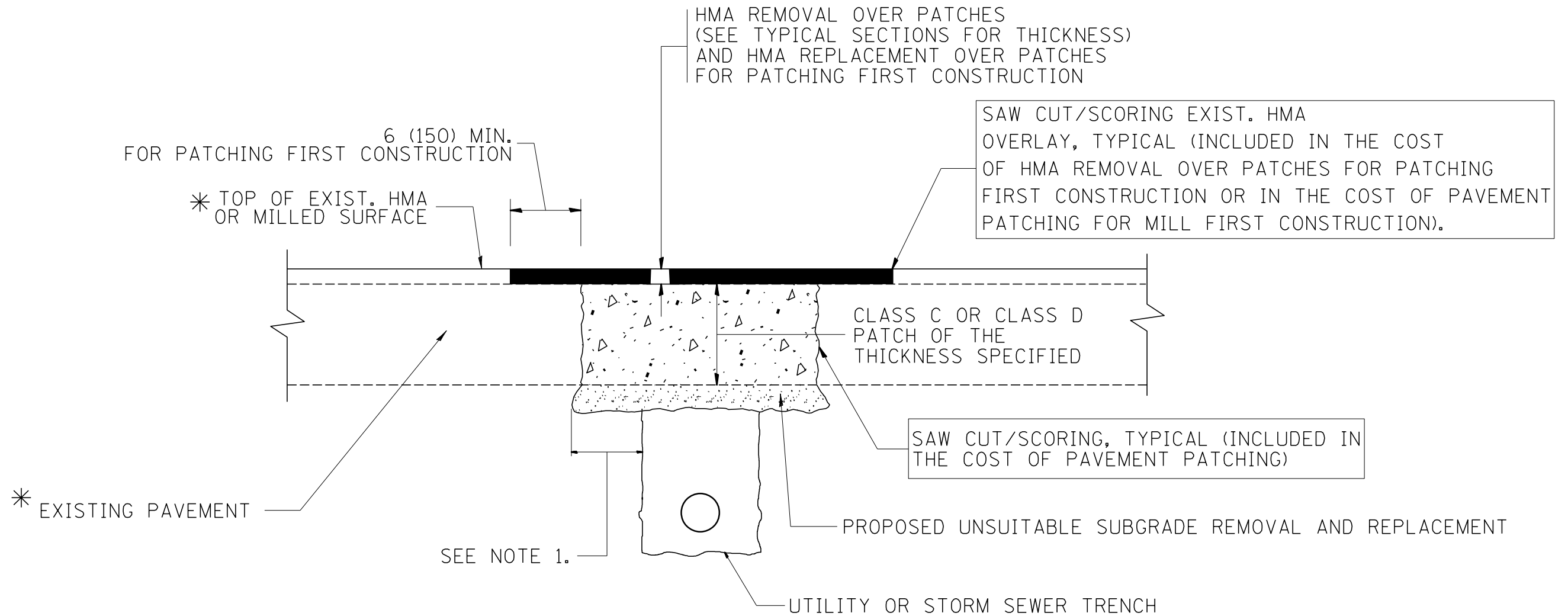
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = qureshiya	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
es:\pw\work\p1dot\qureshiya\0446660\019Std.dgn		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 12/9/2015	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	2015-060RS	COOK	36	26
BD600-03 (BD-8)		CONTRACT NO. 62B24		
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

FILE NAME =	USER NAME = qureshiye	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pw\work\p1dot\qureshiye\0446660\111Std.dgn		DRAWN -	REVISED - R. BORO 01-01-07		343	2015-060RS	COOK	36	27			
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - R. BORO 09-04-07		BD400-04 (BD-22)		CONTRACT NO. 62B24					
	PLOT DATE = 12/9/2015	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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

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

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

18" (450) MAX.

1/4" (5) **

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

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

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

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

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

* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

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

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

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

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

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

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

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

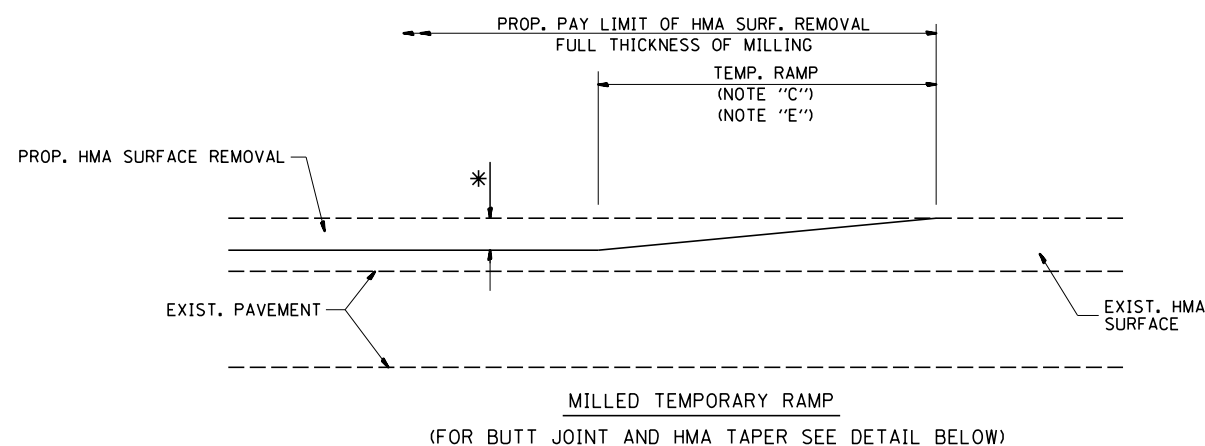
BASIS OF PAYMENT:

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

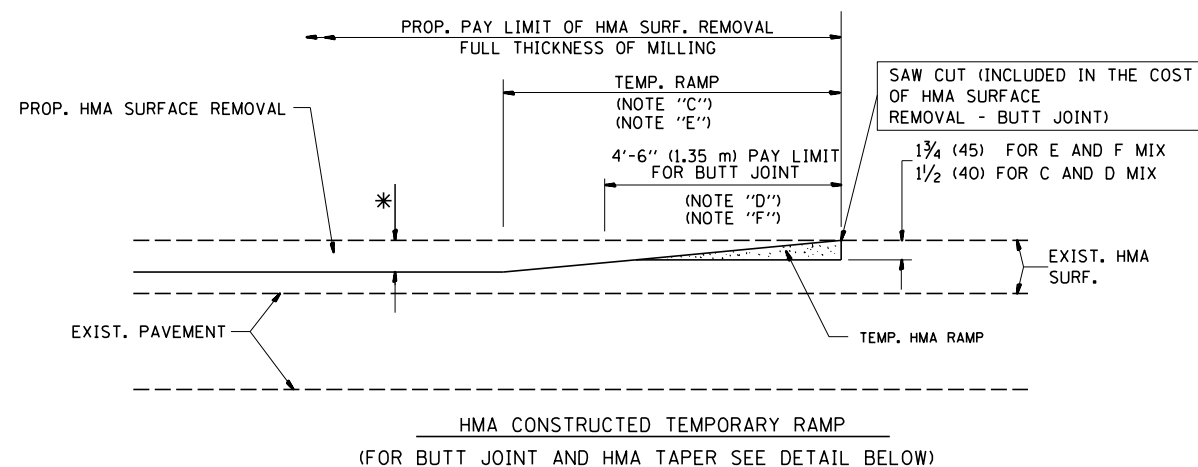
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = qureshiya	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pw\work\p\id\dot\qureshiya\d0446660\119Std.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	REVISED - M. GOMEZ 01-22-01			343	2015-060RS	COOK	36	28
PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - R. BORO 12-15-09				BD600-06 (BD-24)		CONTRACT NO. 62B24		
PLOT DATE = 12/9/2015	DATE - 03-11-94					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT

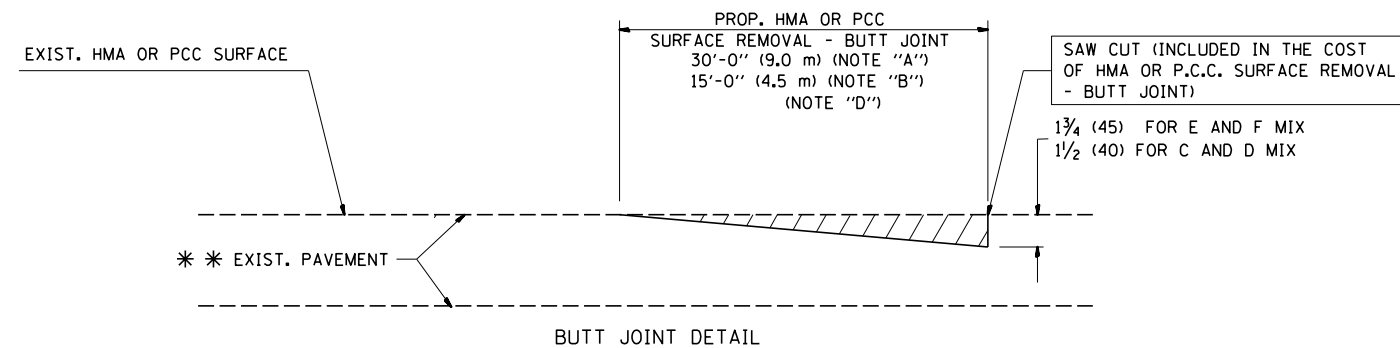


OPTION 1

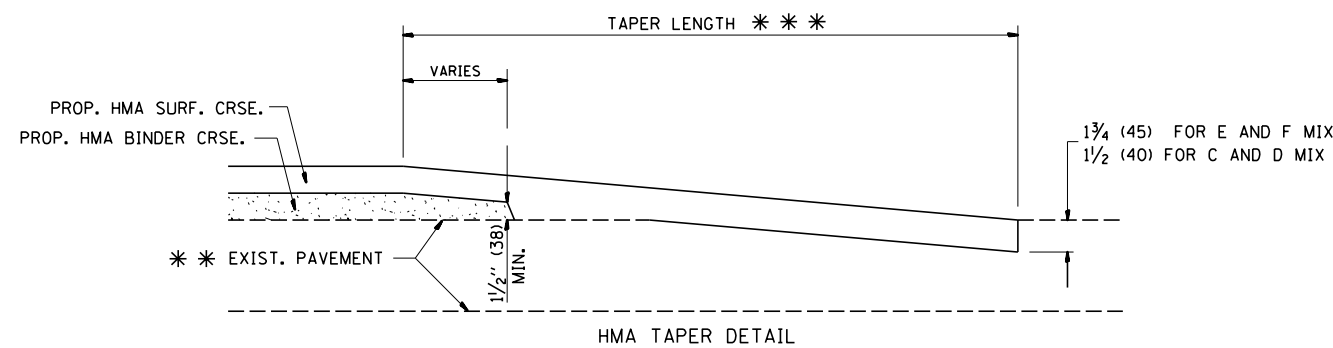


OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

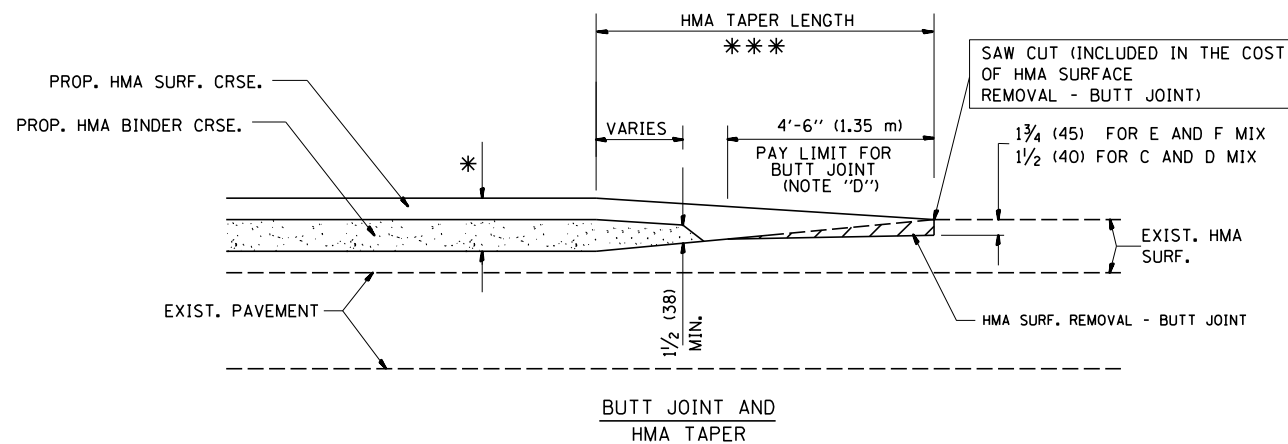
NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

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

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



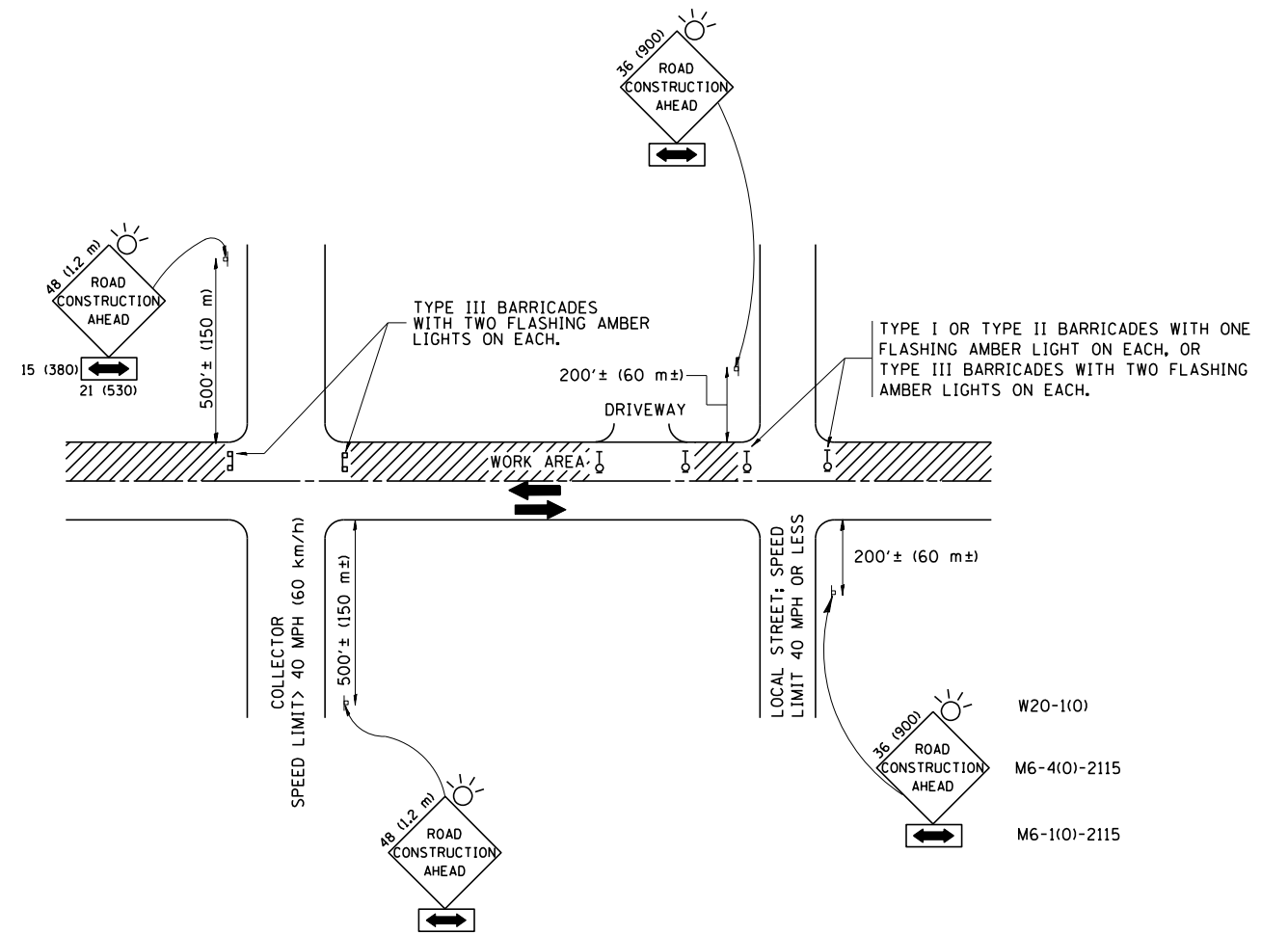
TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

FILE NAME =	USER NAME = qureshiya	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
ca:\pw\work\p1dot\qureshiya\d0446660\119Std.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 12/9/2015	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	2015-06ORS	COOK	36	29
BD400-05 BD32		CONTRACT NO. 62B24		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

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

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

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

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

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

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

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

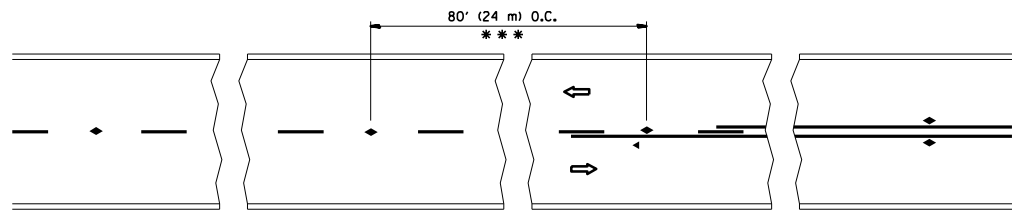
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	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 12/9/2015	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

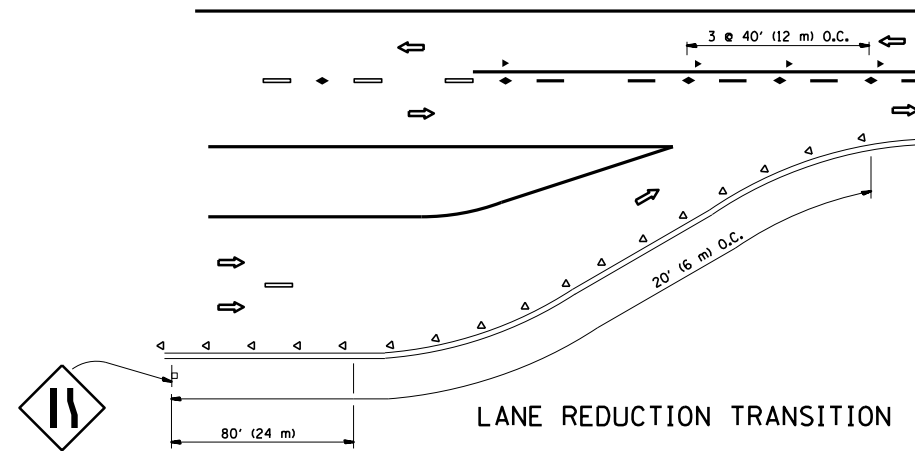
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	2015-06ORS	COOK	36	30
TC-10		CONTRACT NO. 62B24		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

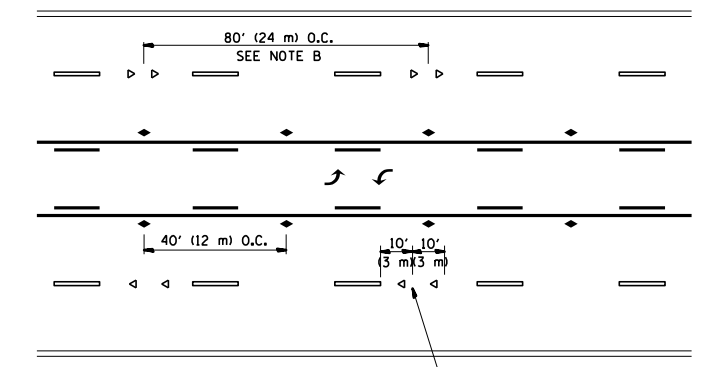


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

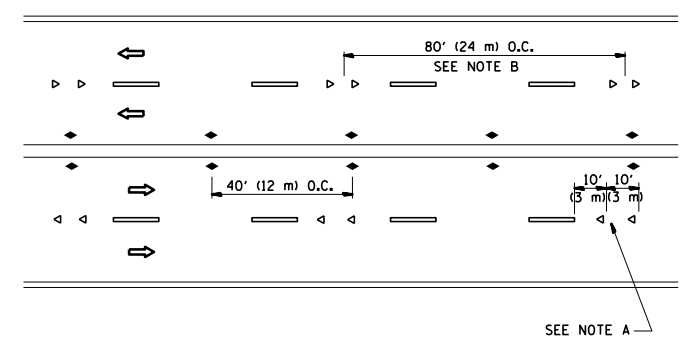
TWO-LANE/TWO-WAY



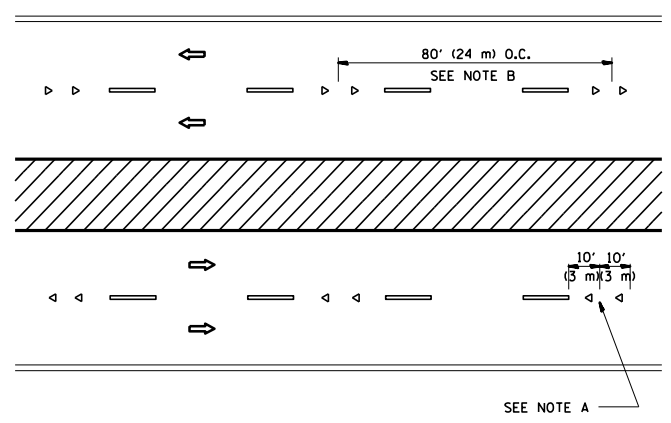
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

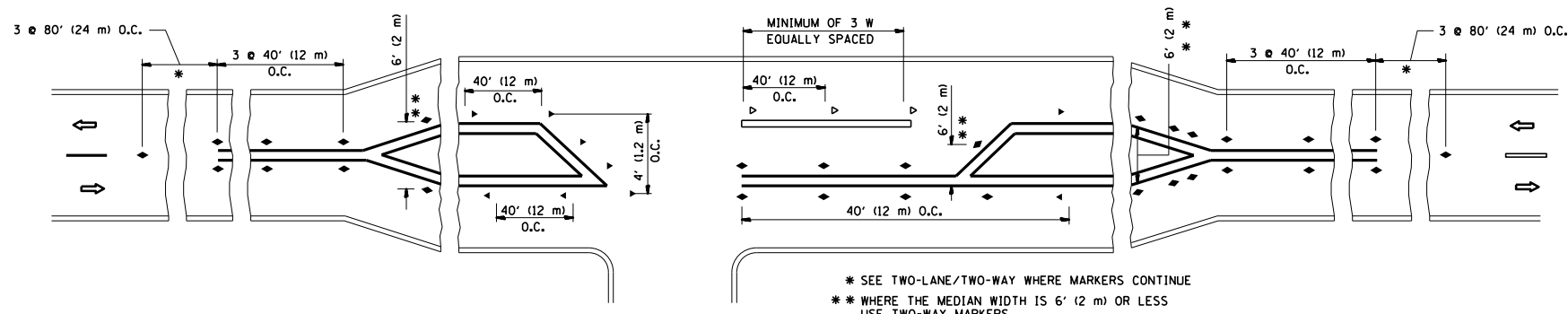
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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

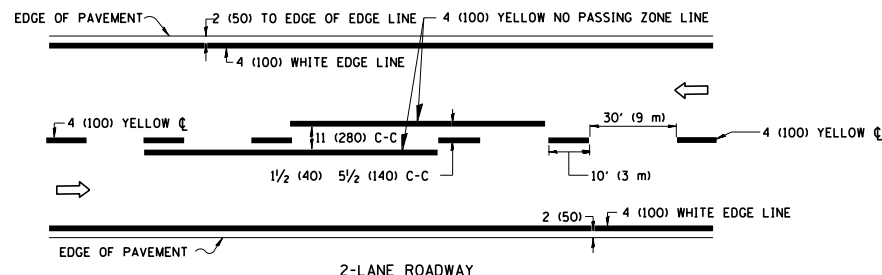


LEFT TURN

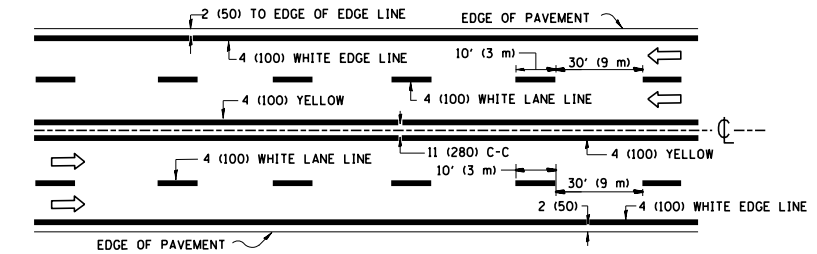
* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

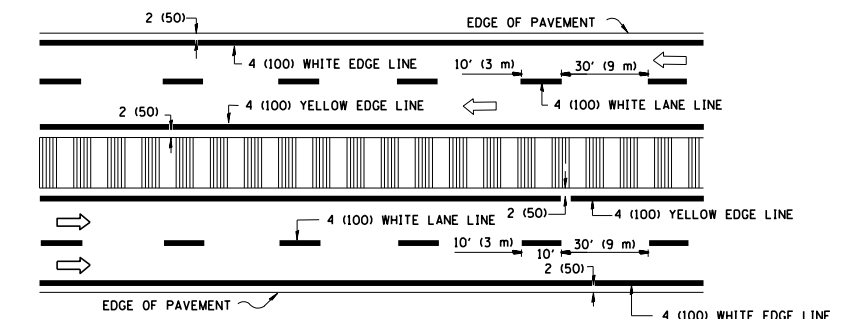
FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\pwork\qureshiya\0446660\119Std.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99					343	2015-060RS	COOK	36	31
PLOT SCALE = 100.0000' / 1"		CHECKED -	REVISED - T. RAMMACHER 01-06-00		TC-11			CONTRACT NO. 62B24				
PLOT DATE = 12/9/2015		DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY



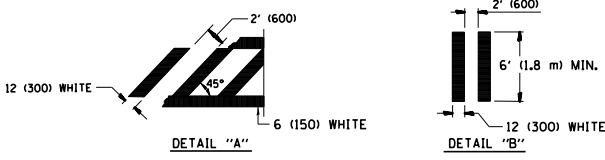
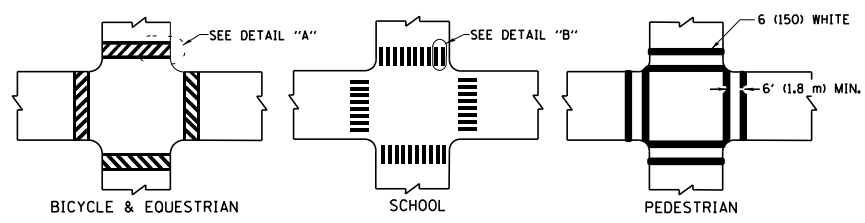
MULTI-LANE UNDIVIDED



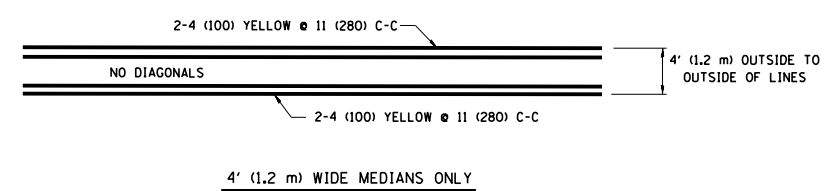
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

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

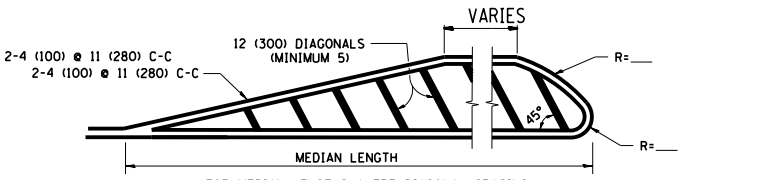
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



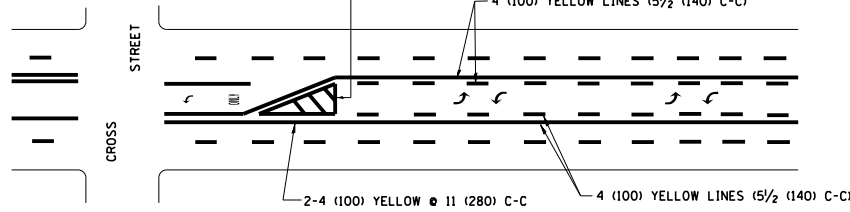
4' (1.2 m) WIDE MEDIANS ONLY



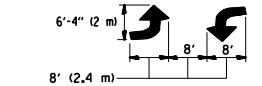
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

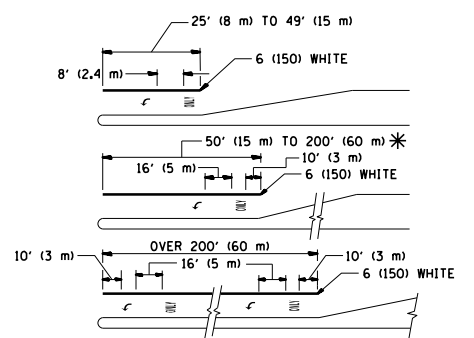


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

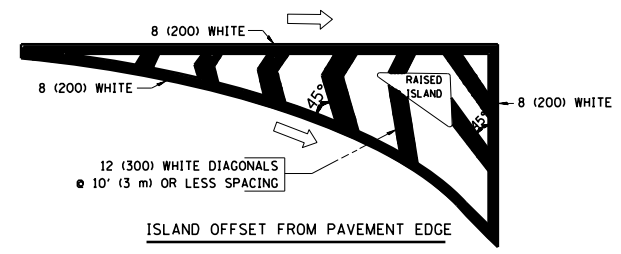


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

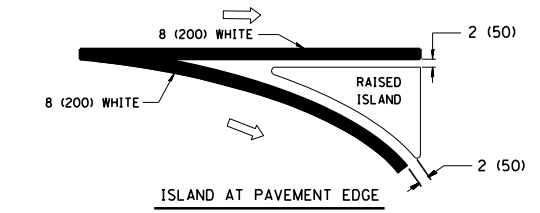
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

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

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

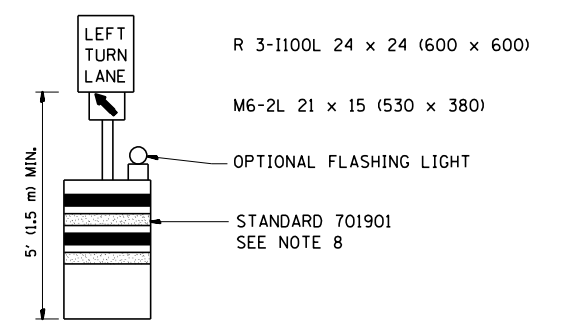
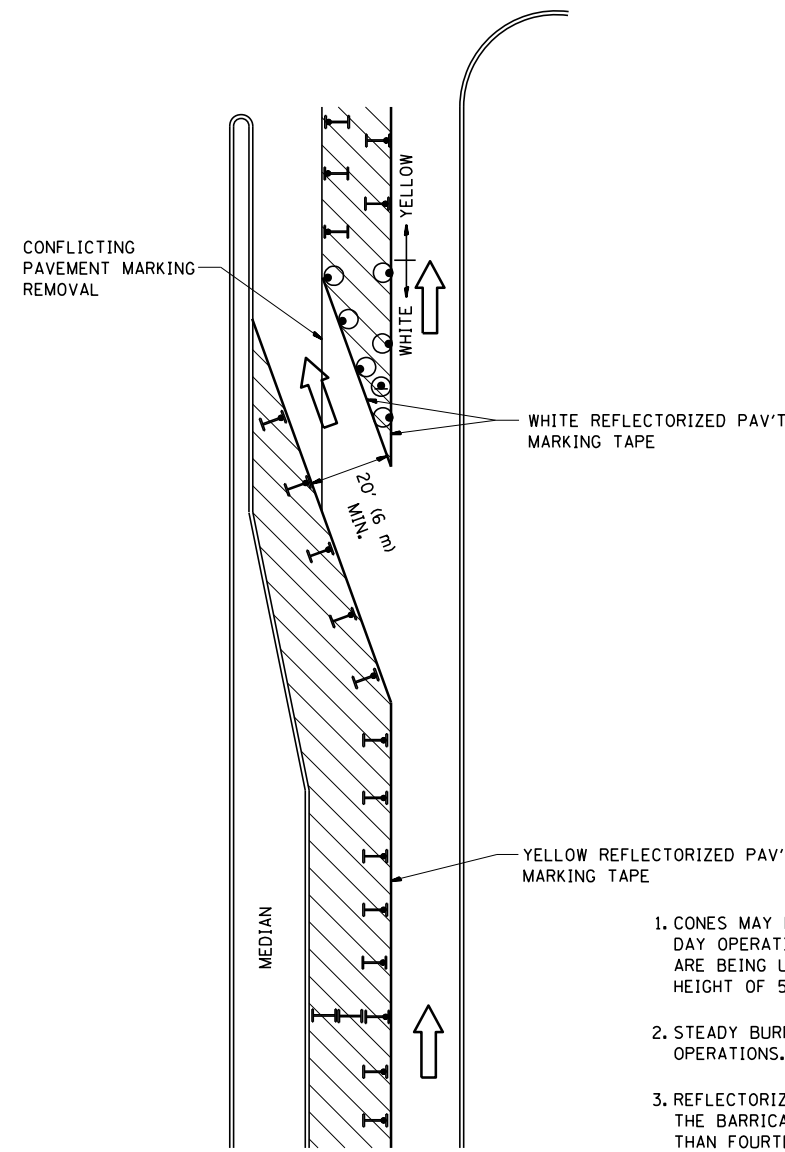
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = qureshiya	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
es:\pw_work\p1dot\qureshiya\0446660\019Std.dgn		DRAWN -	REVISED - C. JUCIUS 09-09-09
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 12/9/2015	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	2015-060RS	COOK	36	32
TC-13		CONTRACT NO. 62B24		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				









GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM OR TYPE II BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 PREQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

LEGEND

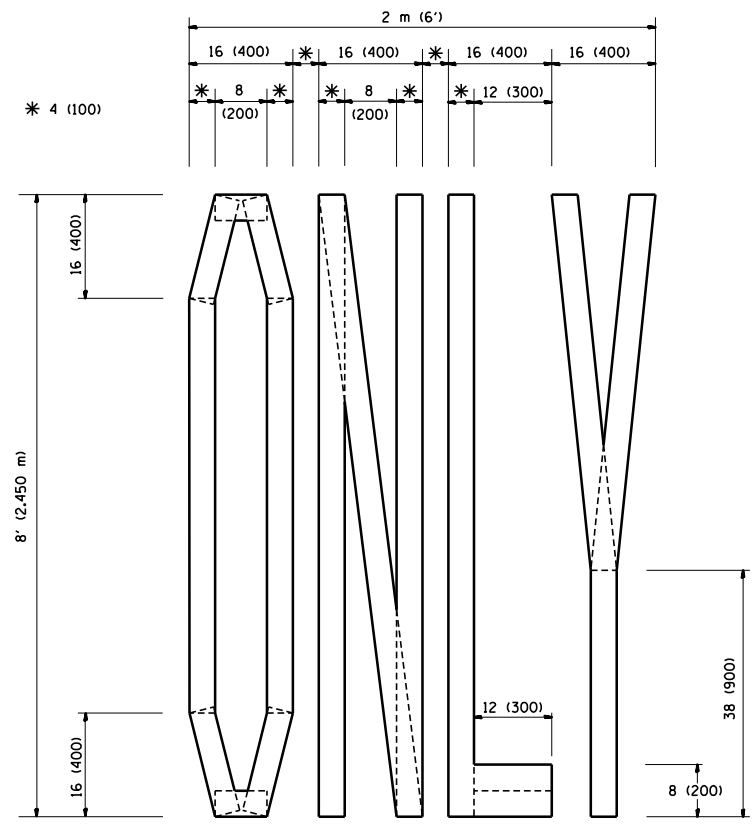
-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

FILE NAME =	USER NAME = qureshiya	REVISED -T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
es:\pw\work\p1dot\qureshiya\0446660\019Std.dgn		REVISED - A. HOUSEH 11-07-95	REVISED -
	PLOT SCALE = 100.0000' / 1in.	REVISED - A. HOUSEH 10-12-96	REVISED -
	PLOT DATE = 12/9/2015	REVISED -T. RAMMACHER 01-06-00	REVISED -

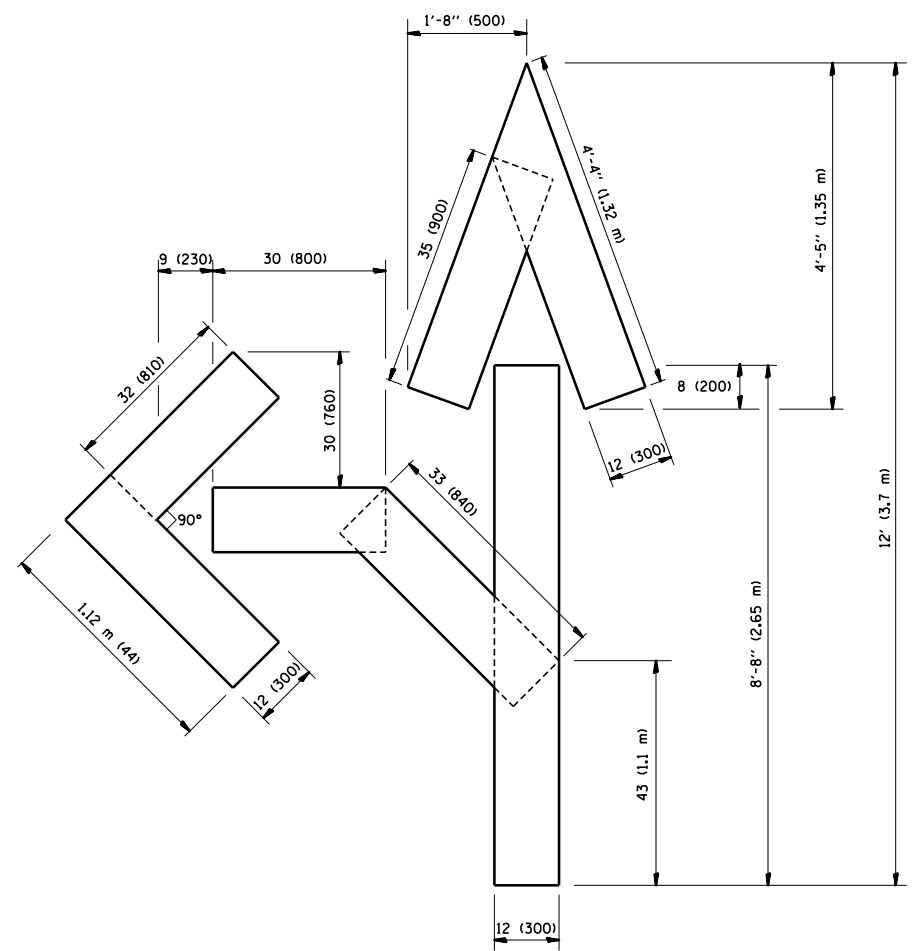
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

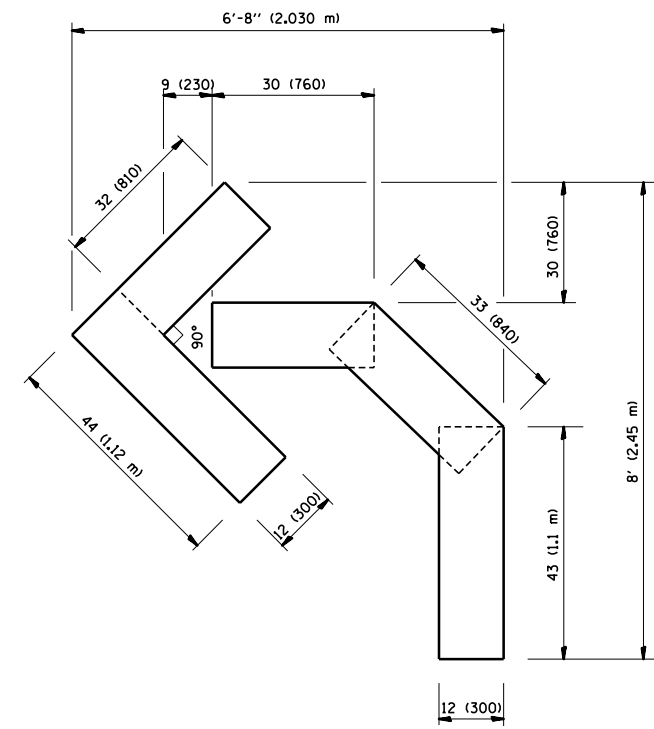
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	2015-060RS	COOK	36	33
TC-14			CONTRACT NO. 62B24	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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



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



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

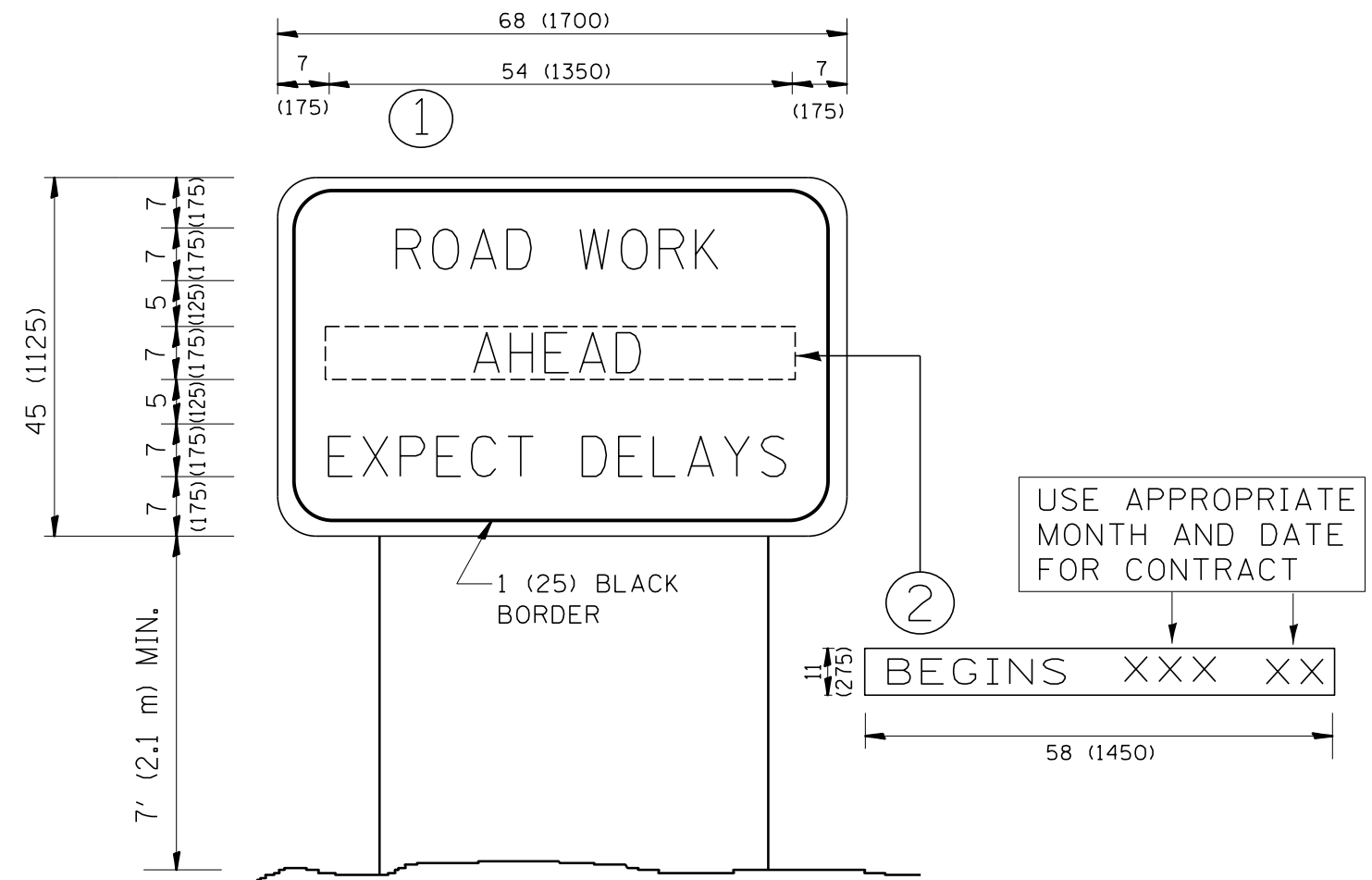
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
es:\pw\work\p1dot\qureshiya\d0446660\Dis\Std.dgn		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 12/9/2015	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	2015-06ORS	COOK	36	34
TC-16			CONTRACT NO. 62B24	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

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

FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED - R. MIRS 09-15-97
ca:\pw_work\p1dot\qureshiya\d0446660\DisStd.dgn		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 12/9/2015	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

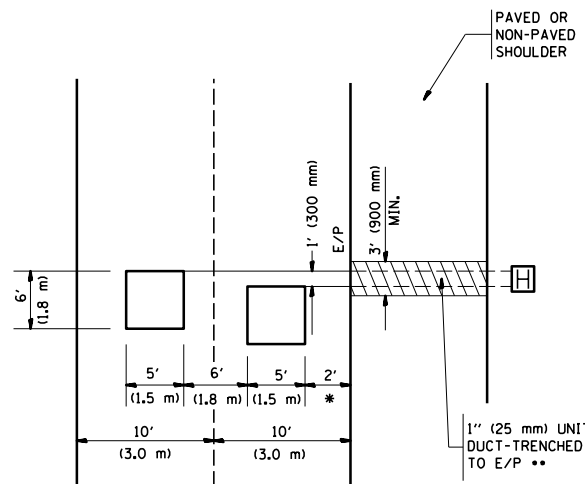
**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	2015-06ORS	COOK	36	35
TC-22		CONTRACT NO. 62B24		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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



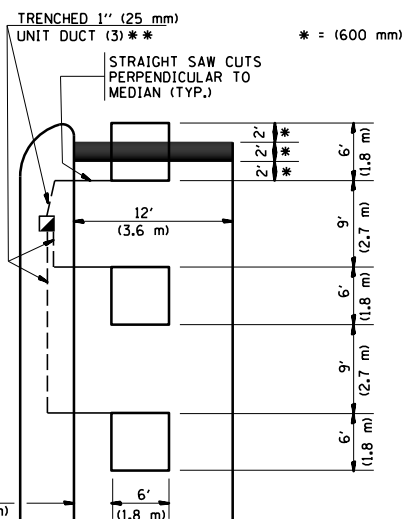
* = (600 mm)

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

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

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



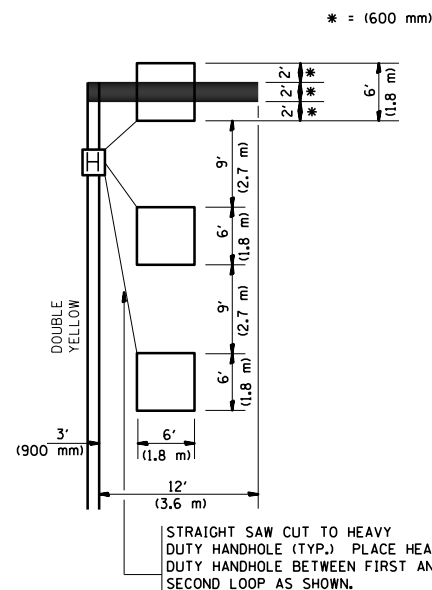
* = (600 mm)

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

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

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

(PROTECTED / PERMITTED LEFT TURN PHASING)



* = (600 mm)

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

NOTES:

VEHICLES LOOP DETECTORS

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

PLACEMENT OF DETECTORS

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

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

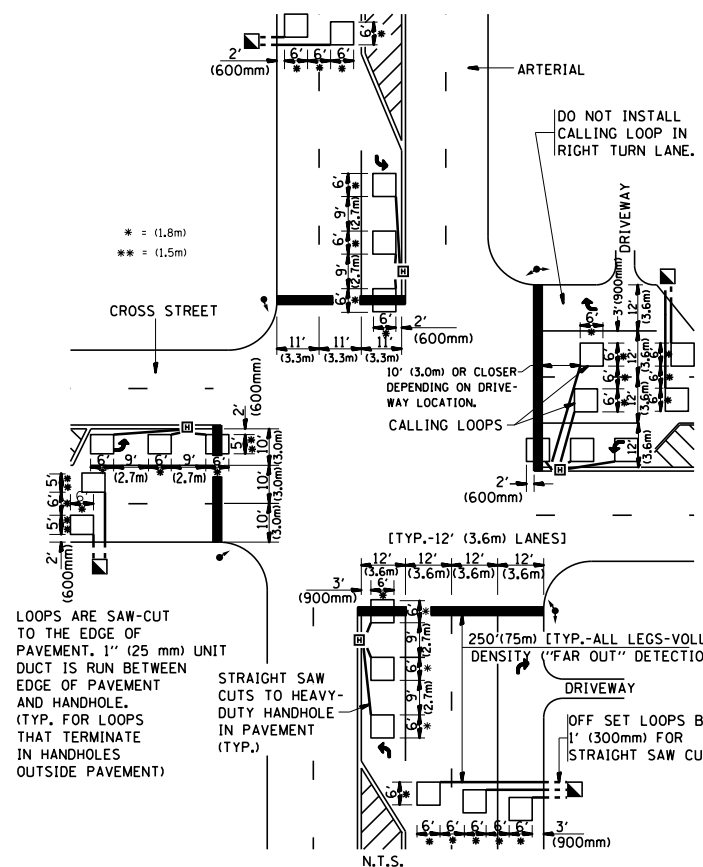
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

NOTE:

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

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

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



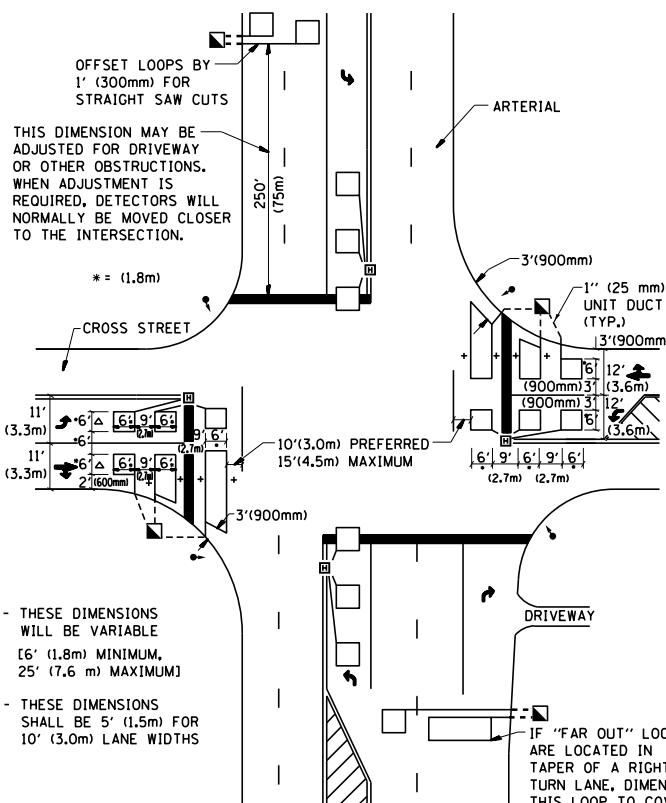
* = (1.8m)
** = (1.5m)

LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

STRAIGHT SAW CUTS TO HEAVY-DUTY HANDHOLE IN PAVEMENT (TYP.)

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

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



+ - THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]

Δ - THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

IF "FAR OUT" LOOPS ARE LOCATED IN TAPER OF A RIGHT TURN LANE, DIMENSION THIS LOOP TO COVER TAPER AREA. DO NOT COVER THE LEFT TURN LANE OR LEFT TURN LANE TAPER.

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

FILE NAME =	USER NAME = qureshiya	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwwork\pwwork\qureshiya\d0446660\d195std.dgn		DRAWN -	REVISED -			343	2015-060RS	COOK	36	36
		CHECKED - R.K.F.	REVISED -			TS-07		CONTRACT NO. 62B24		
		DATE -	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	