

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2009-131 RS	COOK	51	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 60142	

* FAU 3562 & FAU 1504

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED IN VILLAGE OF LYONS, HODGKINS, McCOOK AND CITY OF COUNTRY SIDE

PROPOSED HIGHWAY PLANS

F.A.U. 3562: (JOLIET RD.) & F.A.U 1504 (55TH STREET)

SECTION: 2009-131 RS

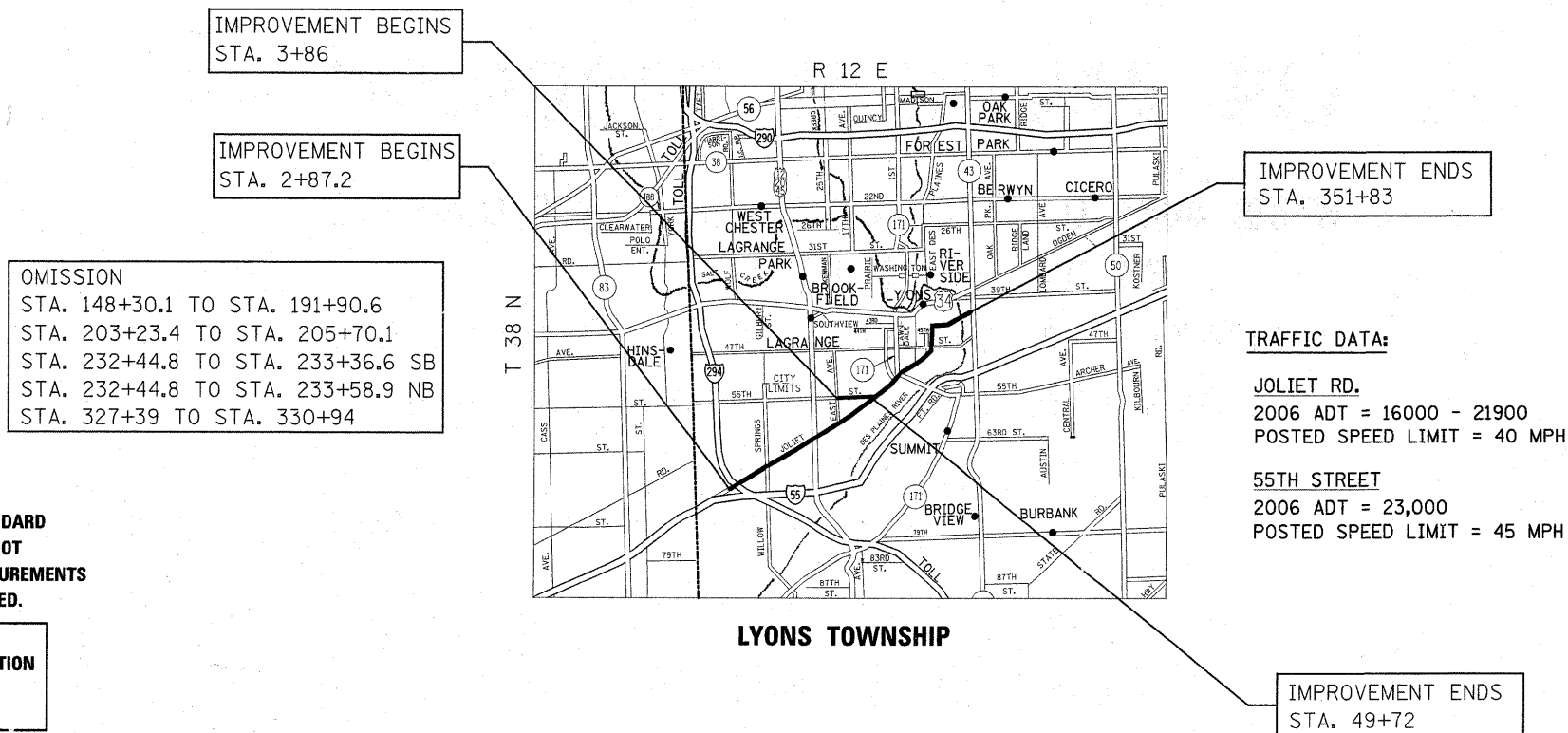
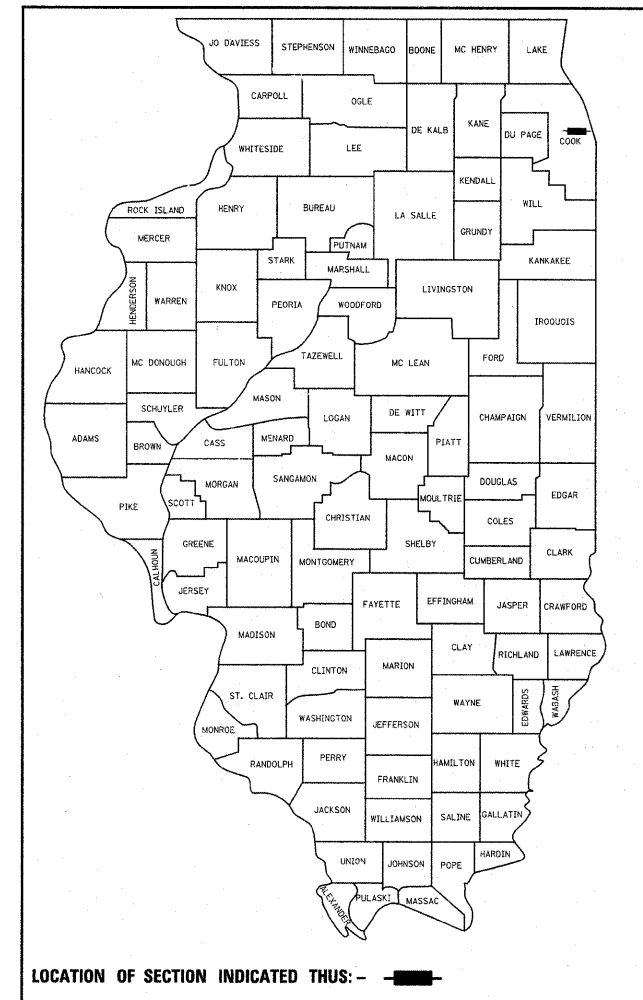
JOLIET RD FROM I-294 TO IL 43 (HARLEM AVE.)

55TH ST. FROM EAST AVE/EBERLY AVE. TO JOLIET RD.

RESURFACING (3P)

COOK COUNTY

C-91-037-10



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

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

PROJECT ENGINEER KARI SMITH (847) 705-4437
PROJECT MANAGER KEN ENG

JOLIET RD.: GROSS LENGTH OF IMPROVEMENT = 34895.8 LINEAL FEET = 6.60 MILES
NET LENGTH OF IMPROVEMENT = 29819.5 LINEAL FEET = 5.65 MILES

55TH ST.: GROSS & NET LENGTH OF IMPROVEMENT = 4586 LINEAL FEET = 0.87 MILES

CONTRACT NO. 60142

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED December 4, 2009
Diana M. O'Keefe
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

January 29, 2010
Scott E. Stitt P.E.
 ASST. ENGINEER OF DESIGN AND ENVIRONMENT

January 29, 2010
Christine M. Reed
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

STATE STANDARDS

INDEX OF SHEETS

- 1 TITLE SHEET
- 2 INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4-7 TYPICAL SECTIONS
- 8-21 ROADWAY AND PAVEMENT MARKING PLAN
- 22-39 DETECTOR LOOPS REPLACEMENT PLANS
- 40 DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)
- 41 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
- 42 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (DB-24)
- 43 BUTT JOINT AND HMA TAPER DETAILS (DB-32)
- 44 HMA TAPER AT EDGE OF PCC PAVEMENT (DB-33)
- 45 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
- 46 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-11)
- 47 DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
- 48 TRAFFIC CONTROL & PROTECTION OF TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
- 49 PAVEMENT MARKING LETTERS & SYMBOLS FOR TRAFFIC STAGING (TC-16)
- 50 ARTERIAL ROAD INFORMATION SIGN (TC-22)
- 51 DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

- 442201-03 CLASS C AND D PATCHES
- 604001-03 FRAME AND LIDS, TYPE 1
- 604091-02 FRAME AND GRATE, TYPE 24
- 701422-02 LANE CLOSURE, MULTILANE, FOR SPEEDS > 45 MPH TO 55 MPH
- 701426-03 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS
- 701301-03 LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
- 701606-06 URBAN LANE CLOSURE MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701701-06 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701901-01 TRAFFIC CONTROL DEVICES

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, VILLAGES OF LYONS, HODGKINS, McCOOK AND CITY OF COUNTRY SIDE.

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 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.

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 MS. PATRICE HARRIS AREA TRAFFIC FIELD ENGINEER AT (708) 597-9800 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

BEFORE BEGINING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, 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.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

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.

* FAU 3562 & FAU 1504

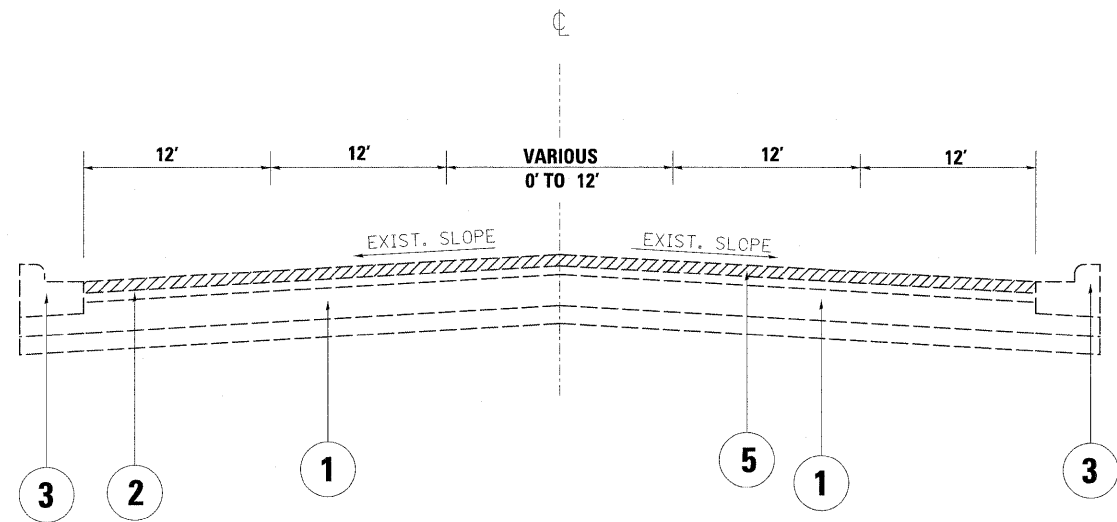
FILE NAME =	USER NAME = ebebawa	DESIGNED - Designed By	REVISED - Revised By1	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOLIET RD & 55th ST. INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES				F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pwwork\pwwidot\ABEBAWA\0157545\0103710-sht-plan.dgn		DRAWN - Drawn By	REVISED - Revised By2		SCALE: Scale	SHEET NO.	OF	SHEETS	STA.	TO STA.	2009-131 RS	COOK	51	2
		CHECKED - Checked By	REVISED - Revised By3						CONTRACT NO. 60142					
		DATE - Checked Date	REVISED - Revised By4						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

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		JOLIET RD. FAU 3562 ROADWAY 1000	55TH ST. FAU 1504 ROADWAY 1000				CODE NO.	ITEM		UNIT	JOLIET RD. FAU 3562 ROADWAY 1000	55TH ST. FAU 1504 ROADWAY 1000	
20201006	GRADING AND SHAPING SHOULDERS	UNIT	55	55				70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1			
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	166	146	20			70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1			
40600300	AGGREGATE (PRIME COAT)	TON	827	727	100			70106800	CHANGEABLE MESSAGE SIGN	CAL MO	8		8		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	318	280	38			70300100	SHORT-TERM PAVEMENT MARKING	FOOT	37054	32649	4405		
40600895	CONSTRUCTING TEST STRIP	EACH	3	2	1			70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	2083.5	1828.5	255		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1845	1780	65			70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	99255	85315	13940		
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	537	537				70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	8275	7090	1185		
40603595	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90	TON	19761	17340	2421			70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	1586	1586			
42001300	PROTECTIVE COAT	SQ YD	1196	1166	30			70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1004	834	170		
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	201649	176944	24705			70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	1881	1661	220		
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	3585	3500	85			70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	5097	3627	1470		
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	199	199				* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	2083.5	1828.5	255		
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	119	119				* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	99255	85315	13940		
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	80	80				* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	8275	7090	1185		
44201777	CLASS D PATCHES, TYPE II, 11 INCH	SQ YD	745		745			* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1560	1560			
44201781	CLASS D PATCHES, TYPE III, 11 INCH	SQ YD	310		310			* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1004	834	170		
44201783	CLASS D PATCHES, TYPE IV, 11 INCH	SQ YD	185		185			* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1881	1661	220		
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	2363	2363				* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2854	2409	445		
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SQ YD	2067	2067				78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2343	1928	415		
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SQ YD	1477	1477				* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	7403	5701	1702		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	105		105			X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	257	205.6	51.4		
55039700	STORM SEWERS TO BE CLEANED	FOOT	400		400			40600826	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	8728	7708	1020		
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	18	16	2			X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	2721	2721			
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	169	168	1			Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	25	15	10		
60404950	FRAMES AND GRATES, TYPE 24	EACH	2		2			Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1			
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	5	5				21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	597	583	14		
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	4	4				25200110	SODDING, SALT TOLERANT	SQ YD	597	583	14		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	4	2										
67100100	MOBILIZATION	L SUM	1	0.5	0.5										
70100320	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	L SUM	1		1										

*Specialty Items

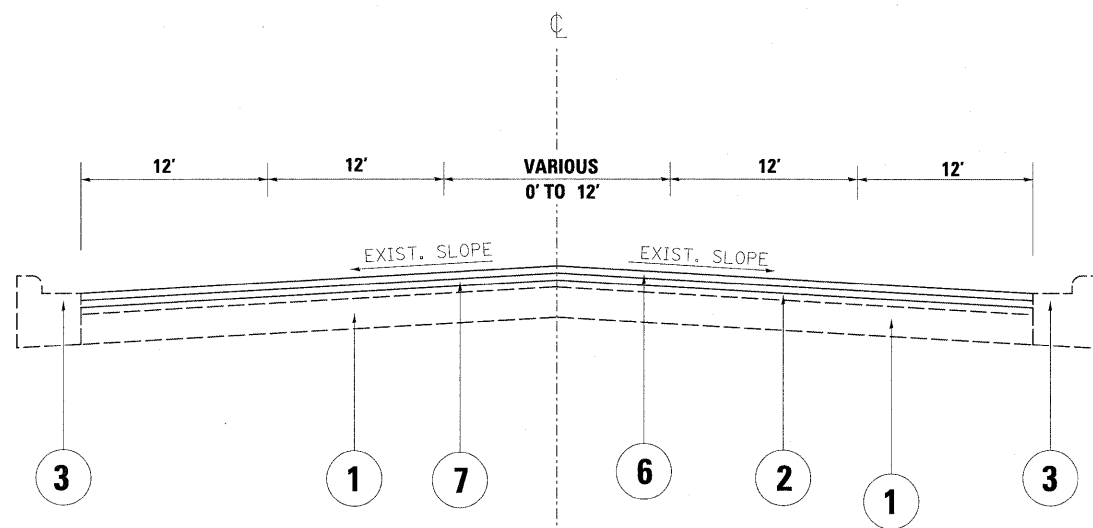
FILE NAME =	USER NAME = abebaw	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				SUMMARY OF QUANTITIES				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\pwl\abebaw\d0157545\DI03710-stf-plan.dgn		DRAWN -	REVISED -									2009-131 RS	COOK	51	3	
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -									CONTRACT NO. 60142				
PLOT DATE = 12/11/2009		DATE -	REVISED -									FED. ROAD ST. NO. 1 ILLINOIS FED. AID PROJECT				

JOLIET RD.



EXIST. TYPICAL SECTION
STA. 2+87.2 TO STA. 351+83

JOLIET RD.



PROP. TYPICAL SECTION
STA. 2+87.2 TO STA. 351+83

LEGEND

- ① EXISTING P.C.C PAVEMENT, ±9"
- ② EXISTING HOT-MIX ASPHALT AFTER MILLING, ±5"
- ②A EXISTING HOT-MIX ASPHALT AFTER MILLING, ±2"
- ③ EXISTING COMB. CURB AND GUTTER
- ③A EXISTING AGGREGATE SHOULDER
- ④ PROP. PORTLAND CEMENT CONCRETE SURFACE REMOVAL, (VARIABLE DEPTH) (0" TO 1 1/4")
- ⑤ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- ⑥ PROP. POLY. HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑦ PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑧ PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- ⑨ PROP. GRADING AND SHAPING SHOULDERS

MIXTURE REQUIREMENTS

MIXTURE USES	VOIDS
POLY. HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm)	4% AT 90 GYR.
POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	4% AT 50 GYR.
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% AT 70 GYR.

NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE IS 112 LBS/SQYD/IN

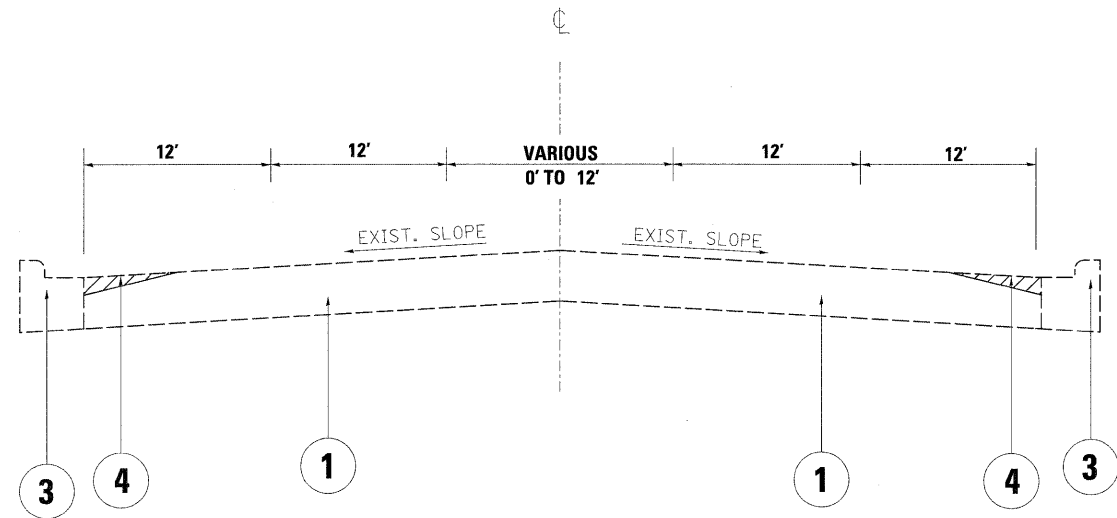
NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

THE CONTRACTOR SHALL MILL FIRST THEN PATCH (FOR HMA SURFACE)

*FAU 3562 & FAU 1504

FILE NAME =	USER NAME = abebawa	DESIGNED - Designed By	REVISED - Revised By1	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOLIET RD (I-294 TO IL 43 (HARLEM AVE.)) EXISTING AND PROPOSED TYPICAL SECTIONS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pw_work\pkidot\abebawa\d0157545\0103710-shi-plan.dgn	PLOT SCALE = 49,9999 / IN.	DRAWN - Drawn By	REVISED - Revised By2			*	2009-131 RS	COOK	51	4	
	PLOT DATE = 11/20/2009	CHECKED - Checked By	REVISED - Revised By3			SCALE: Scale	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 60142		
		DATE - Checked Date	REVISED - Revised By4					FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

JOLIET RD.

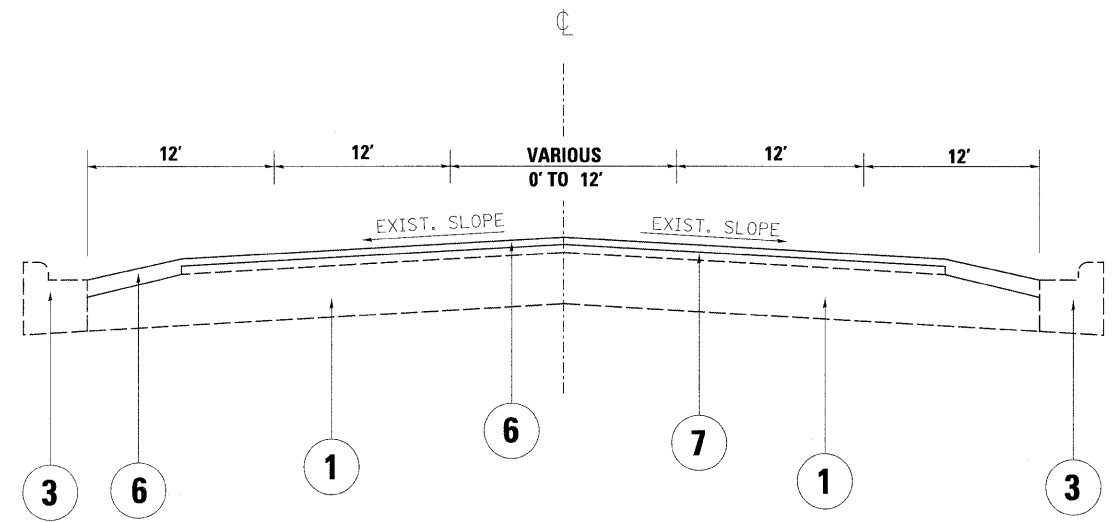


EXIST. TYPICAL SECTION
STA. 224+93.9 TO STA. 239+52.5

LEGEND

- ① EXISTING P.C.C PAVEMENT, ±9"
- ② EXISTING HOT-MIX ASPHALT AFTER MILLING, ±5"
- ②A EXISTING HOT-MIX ASPHALT AFTER MILLING, ±2"
- ③ EXISTING COMB. CURB AND GUTTER
- ③A EXISTING AGGREGATE SHOULDER
- ④ PROP. PORTLAND CEMENT CONCRETE SURFACE REMOVAL, (VARIABLE DEPTH) (0" TO 1 1/4")
- ⑤ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- ⑥ PROP. POLY. HOT-MIX ASPHALT SURFACE COURSE, MIX "F" N90, 1 3/4"
- ⑦ PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75 N50, 3/4"
- ⑧ PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- ⑨ PROP. GRADING AND SHAPING SHOULDERS

JOLIET RD.

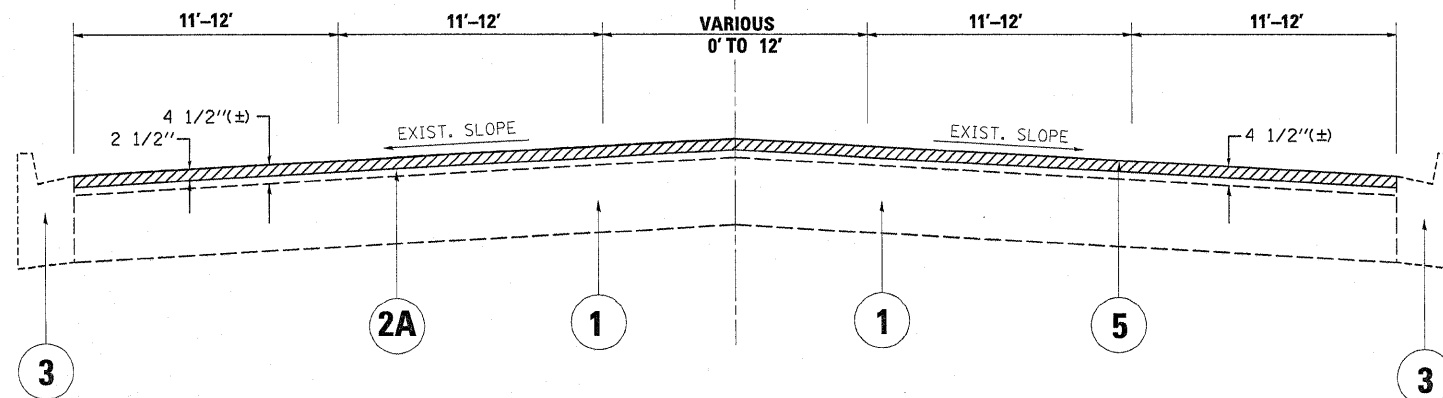


PROP. TYPICAL SECTION
STA. 224+93.9 TO STA. 239+52.5

*FAU 3562 & FAU 1504

FILE NAME =	USER NAME = ababawa	DESIGNED - Designed By	REVISED - Revised By1	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOLIET RD (I-294 TO IL 43 (HARLEM AVE.)) EXISTING AND PROPOSED TYPICAL SECTIONS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pw_work\pwidot\ababawa\d0157545\DI03710-sht-plen.dgn	10-sht-plen.dgn	DRAWN - Drawn By	REVISED - Revised By2			•	2009-131 RS	COOK	57	5
PLOT SCALE = 49.9999 1 / IN.	CHECKED - Checked By	REVISED - Revised By3	REVISED - Revised By4			CONTRACT NO. 60142				
PLOT DATE = 11/20/2009	DATE - Checked Date					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
				SCALE: Scale	SHEET NO. OF SHEETS STA. TO STA.					

55TH ST.



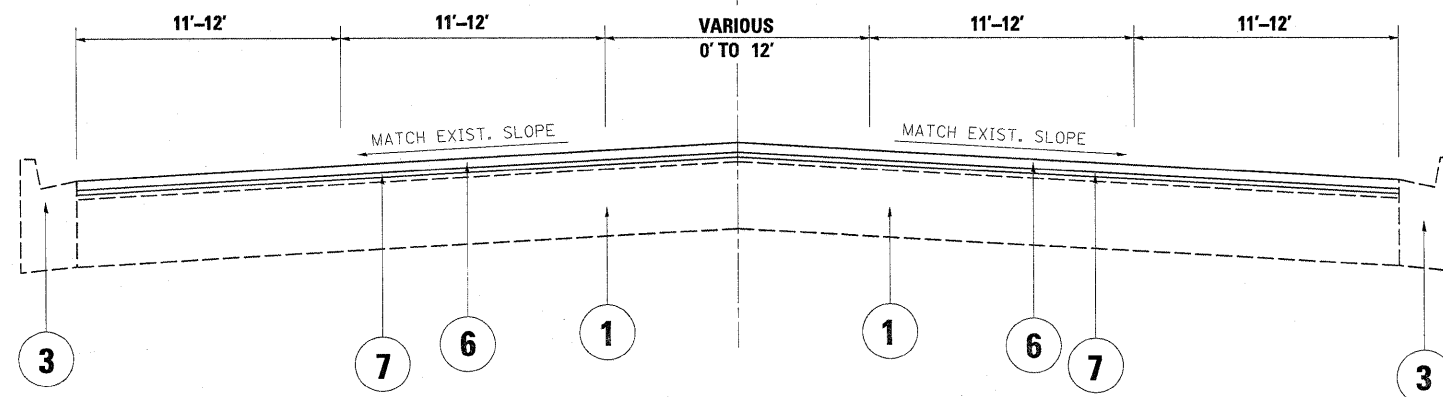
EXIST. TYPICAL SECTION

STA. 3+86 TO STA. 15+56
STA. 45+43 TO STA. 49+72

LEGEND

- ① EXISTING P.C.C PAVEMENT, ± 9"
- ② EXISTING HOT-MIX ASPHALT AFTER MILLING, ± 5"
- ②A EXISTING HOT-MIX ASPHALT AFTER MILLING, ± 2"
- ③ EXISTING COMB. CURB AND GUTTER
- ③A EXISTING AGGREGATE SHOULDER
- ④ PROP. PORTLAND CEMENT CONCRETE SURFACE REMOVAL, (VARIABLE DEPTH) (0" TO 1 1/4")
- ⑤ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- ⑥ PROP. POLY. HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑦ PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑧ PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- ⑨ PROP. GRADING AND SHAPING SHOULDERS

55TH ST.



PROP. TYPICAL SECTION

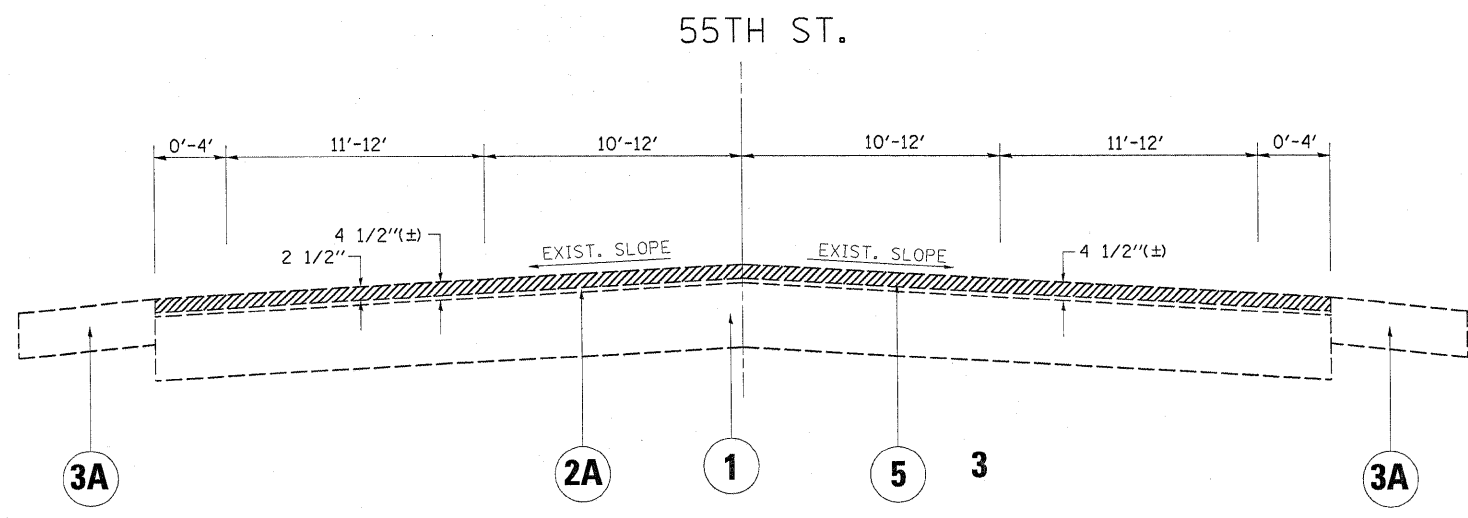
STA. 3+86 TO STA. 15+56
STA. 45+43 TO STA. 49+72

FAU 3562 & FAU 1504

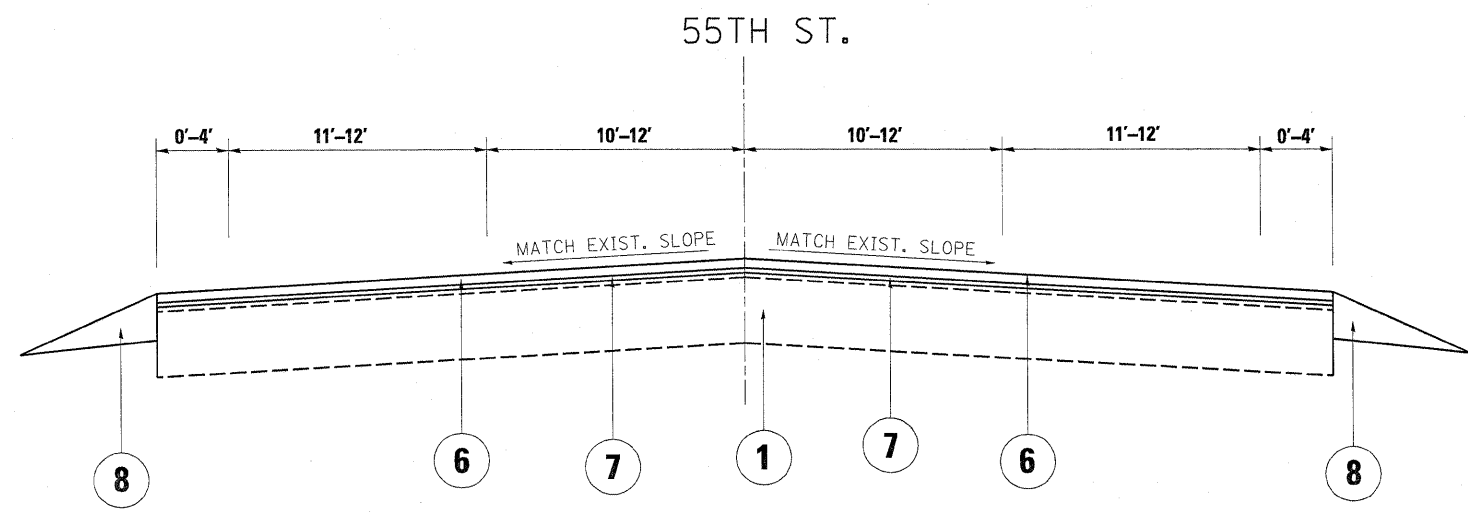
FILE NAME = c:\pwwork\PIWIDOT\ABEBAWA\d0157545\0103710-shr-plan.dgn	USER NAME = abebawa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	55TH STREET EXISTING AND PROPOSED TYPICAL SECTIONS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -			•	2009-131 RS	COOK	51	6
PLOT DATE = 11/21/2009	DATE -	REVISED -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	CONTRACT NO. 60142	
						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LEGEND

- ① EXISTING P.C.C PAVEMENT, ±9"
- ② EXISTING HOT-MIX ASPHALT AFTER MILLING, ±5"
- ②A EXISTING HOT-MIX ASPHALT AFTER MILLING, ±2"
- ③ EXISTING COMB. CURB AND GUTTER
- ③A EXISTING AGGREGATE SHOULDER
- ④ PROP. PORTLAND CEMENT CONCRETE SURFACE REMOVAL, (VARIABLE DEPTH) (0" TO 1 1/4")
- ⑤ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- ⑥ PROP. POLY. HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90, 1 3/4"
- ⑦ PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑧ PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- ⑨ PROP. GRADING AND SHAPING SHOULDERS



EXIST. TYPICAL SECTION (LOC. 2)
STA. 15+56 TO STA. 45+43



PROP. TYPICAL SECTION (LOC. 2)
STA. 15+56 TO STA. 45+43

•FAU 3562 & FAU 1504

FILE NAME =	USER NAME = abebawa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	55TH STREET EXISTING AND PROPOSED TYPICAL SECTIONS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pwwork\VPW\DOT\ABEBAWA\0157545\0103718-sht-plan.dgn	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	•	2009-131 RS	COOK	51	7
	PLOT DATE = 11/21/2009	CHECKED -	REVISED -									
		DATE -	REVISED -									
								CONTRACT NO. 60142				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT												

EXIST. CURVE E_JOLT-1
 PI STA. = 7+77.17
 $\Delta = 4^{\circ} 06' 49''$ (LT)
 $D = 0^{\circ} 45' 50''$
 $R = 7,500.00'$
 $T = 269.36'$
 $L = 538.48'$
 $E = 4.84'$
 $e =$ -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 5+07.81
 P.T. STA. = 10+46.30

EXIST. CURVE E_JOLT-2
 PI STA. = 26+04.38
 $\Delta = 15^{\circ} 26' 20''$ (RT)
 $D = 6^{\circ} 21' 58''$
 $R = 900.00'$
 $T = 121.99'$
 $L = 242.51'$
 $E = 8.23'$
 $e =$ -----
 T.R. = -----
 S.E. RUN = -----
 P.C. STA. = 24+82.39
 P.T. STA. = 27+24.90

IMPROVEMENT BEGINS
 STA. 2+87.2

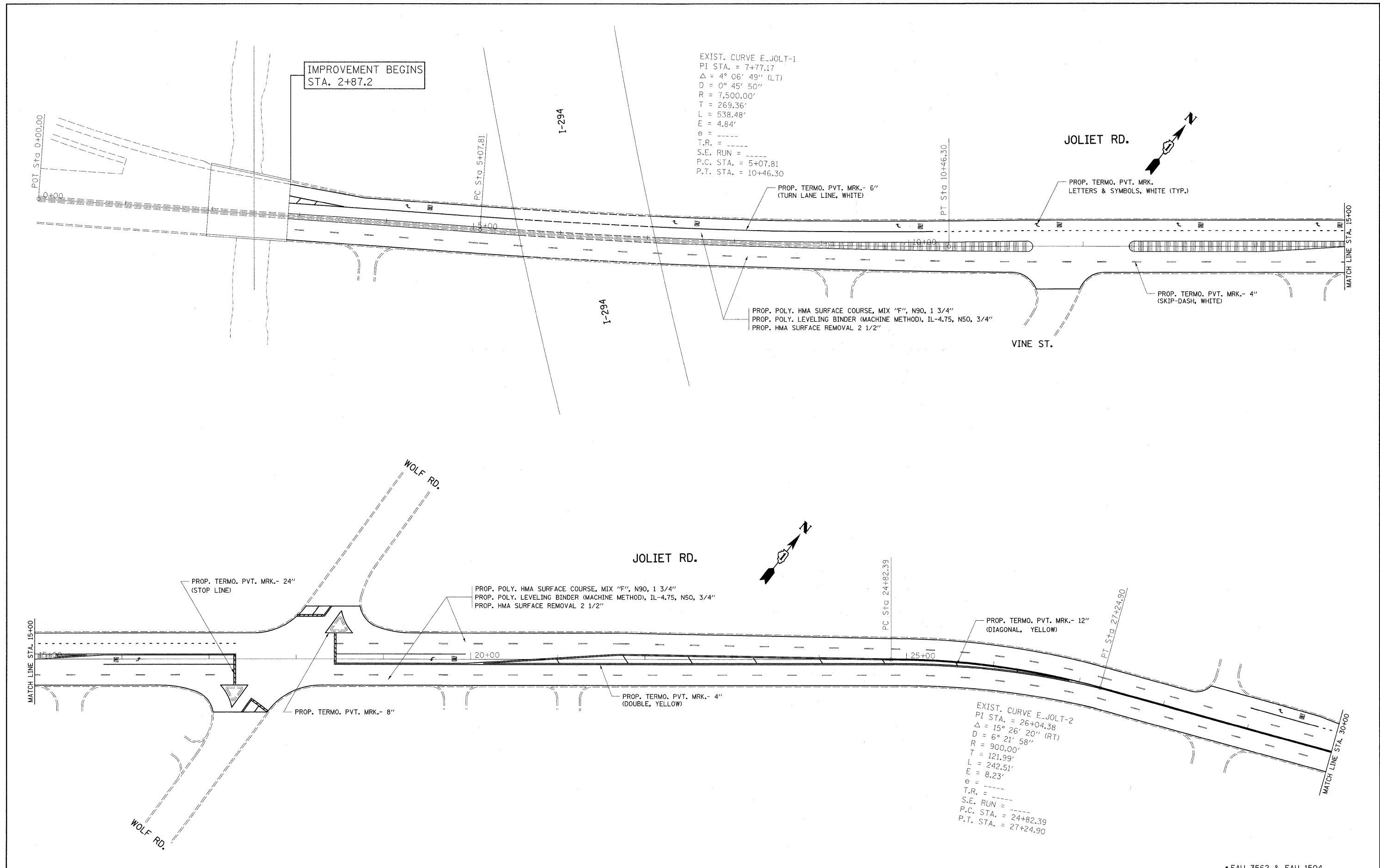
JOLIET RD.

JOLIET RD.

VINE ST.

WOLF RD.

WOLF RD.



•FAU 3562 & FAU 1504

FILE NAME =
 c:\pwwork\pwwid\ABEBAWA\d0157545\103710-sht-plan.dgn

USER NAME = abebawa
 110-sht-plan.dgn
 PLOT SCALE = 50.0000' / IN.
 PLOT DATE = 11/25/2009

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

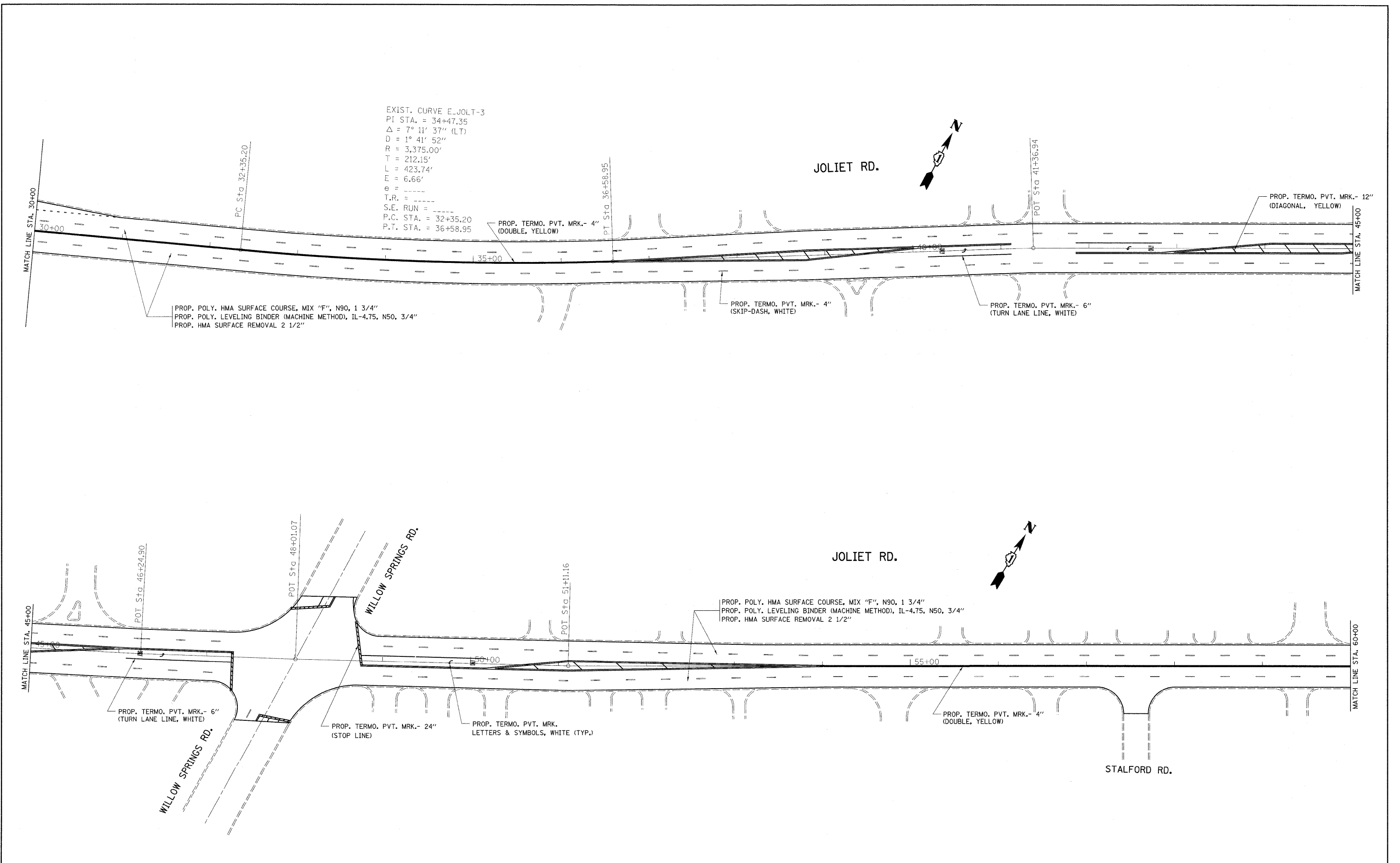
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**JOLIET RD (I-294 TO IL 43 (HARLEM AVE.))
 ROADWAY PLAN**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2009-131 RS	COOK	51	8
CONTRACT NO. 60142				

ILLINOIS FED. AID PROJECT



EXIST. CURVE E.JOLT-3
 PI STA. = 34+47.35
 $\Delta = 7^\circ 11' 37''$ (LT)
 $D = 1^\circ 41' 52''$
 $R = 3,375.00'$
 $T = 212.15'$
 $L = 423.74'$
 $E = 6.66'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 32+35.20$
 $P.T. STA. = 36+58.95$

PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
 PROP. HMA SURFACE REMOVAL 2 1/2"

PROP. TERMO. PVT. MRK.- 4" (SKIP-DASH, WHITE)
 PROP. TERMO. PVT. MRK.- 6" (TURN LANE LINE, WHITE)

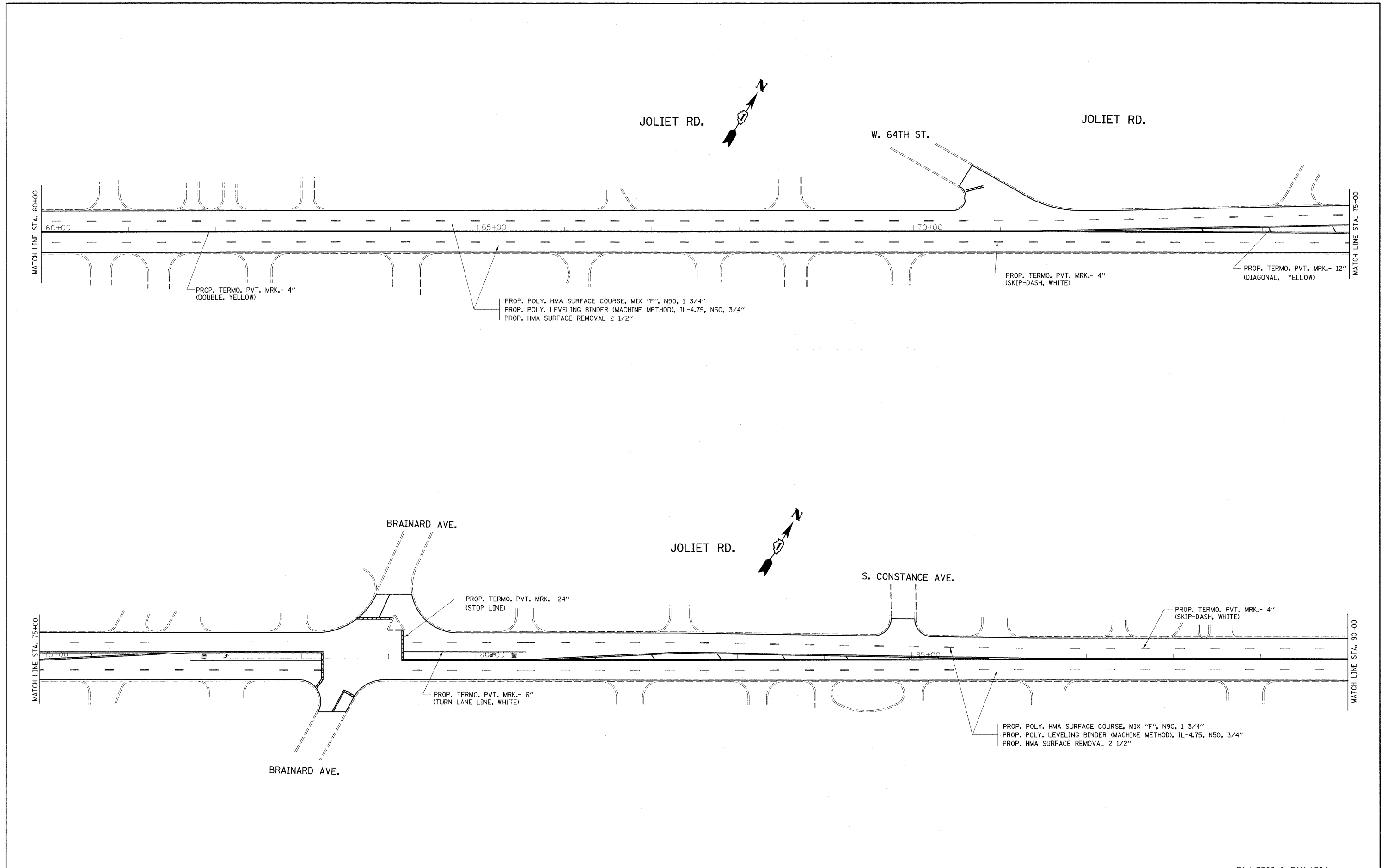
PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
 PROP. HMA SURFACE REMOVAL 2 1/2"

PROP. TERMO. PVT. MRK.- 6" (TURN LANE LINE, WHITE)
 PROP. TERMO. PVT. MRK.- 24" (STOP LINE)
 PROP. TERMO. PVT. MRK. LETTERS & SYMBOLS, WHITE (TYP.)

PROP. TERMO. PVT. MRK.- 4" (DOUBLE, YELLOW)

• FAU 3562 & FAU 1504

FILE NAME =	USER NAME = abebawa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOLIET RD (I-294 TO IL 43 (HARLEM AVE.)) ROADWAY PLAN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw_work\p\dot\abebawa\d0157545\103	10-shr-plan.dgn	DRAWN -	REVISED -					*	2009-131 RS	COOK	51	9
	PLOT SCALE = 50,0000' / IN.	CHECKED -	REVISED -					CONTRACT NO. 60142			ILLINOIS FED. AID PROJECT	
	PLOT DATE = 11/20/2009	DATE -	REVISED -					SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.



*FAU 3562 & FAU 1504

FILE NAME =
c:\pwwork\p1dot\abebawa\d0157545\103710-sht-plan.dgn

USER NAME = abebawa
PLOT SCALE = 50.0000' / IN.
PLOT DATE = 11/20/2009

DESIGNED -
DRAWN -
CHECKED -
DATE -

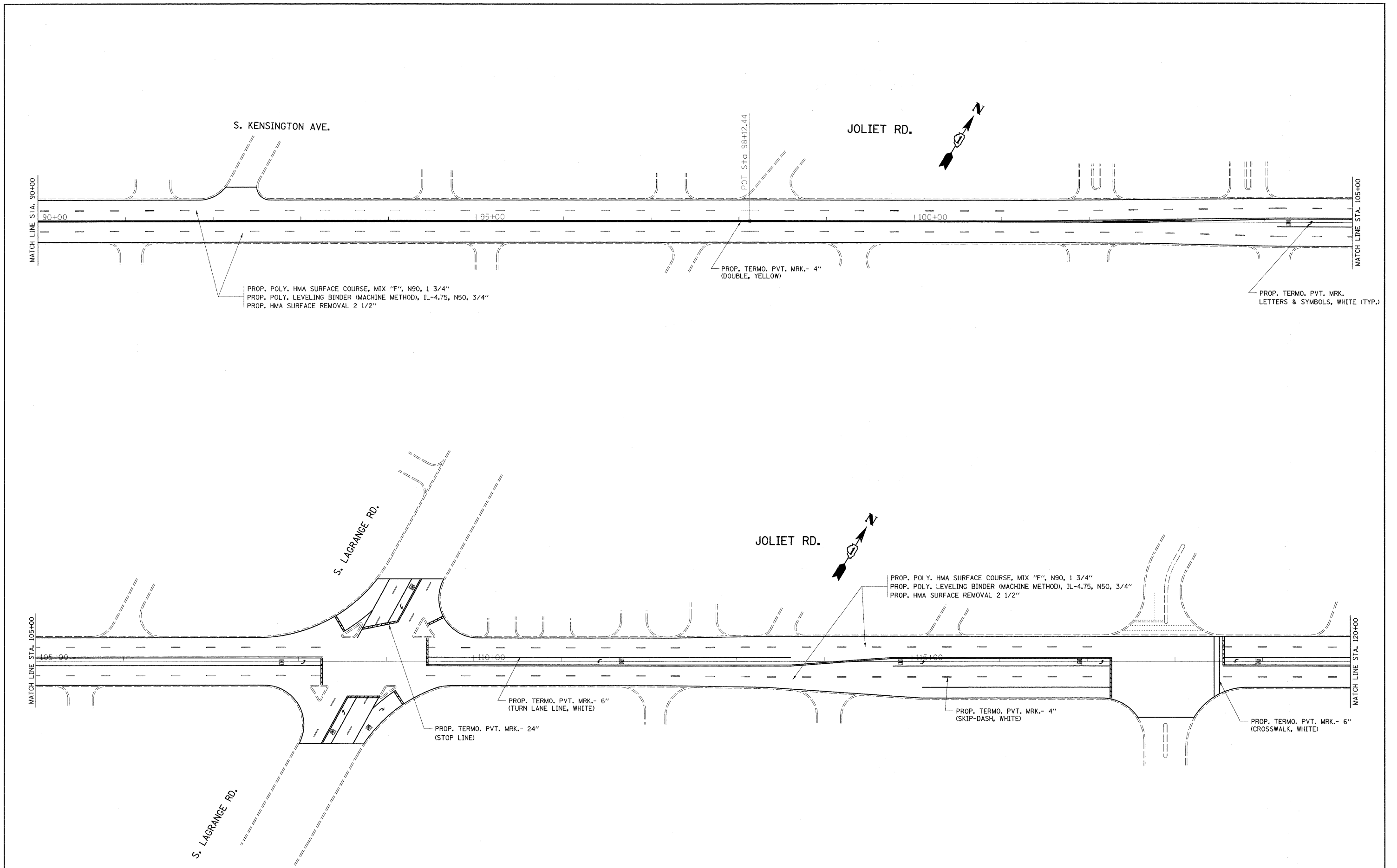
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**JOLIET RD (I-294 TO IL 43 (HARLEM AVE.))
ROADWAY PLAN**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2009-131 RS	COOK	51	10
CONTRACT NO. 60142			ILLINOIS FED. AID PROJECT	



PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
 PROP. HMA SURFACE REMOVAL 2 1/2"

PROP. TERMO. PVT. MRK.
 LETTERS & SYMBOLS, WHITE (TYP.)

PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
 PROP. HMA SURFACE REMOVAL 2 1/2"

PROP. TERMO. PVT. MRK.- 6"
 (TURN LANE LINE, WHITE)

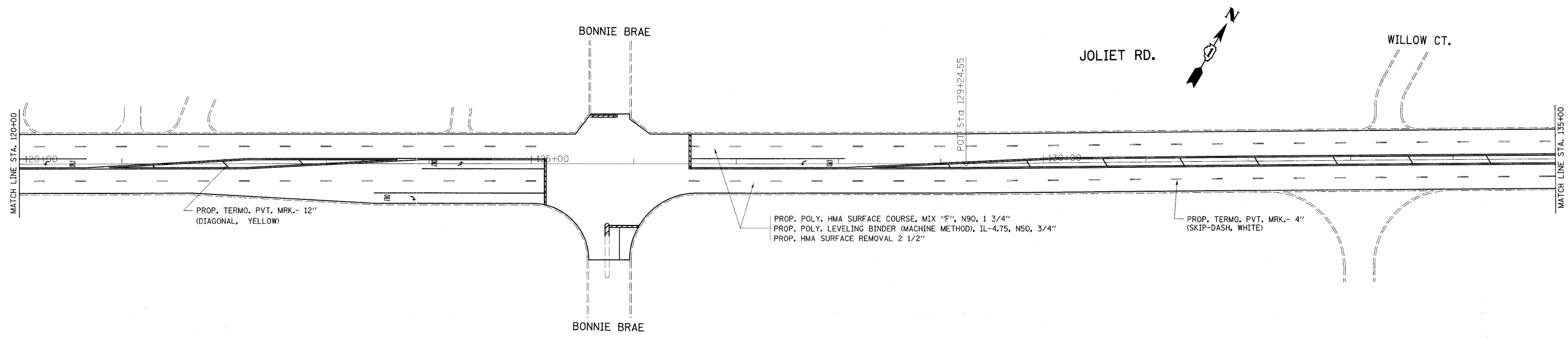
PROP. TERMO. PVT. MRK.- 24"
 (STOP LINE)

PROP. TERMO. PVT. MRK.- 4"
 (SKIP-DASH, WHITE)

PROP. TERMO. PVT. MRK.- 6"
 (CROSSWALK, WHITE)

• FAU 3562 & FAU 1504

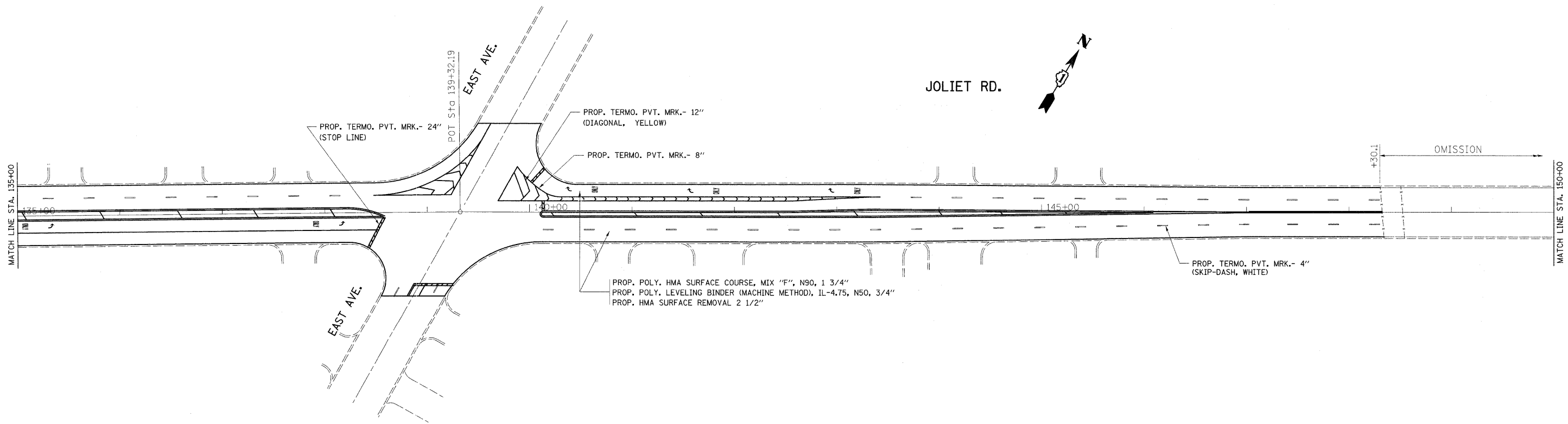
FILE NAME =	USER NAME = abebawa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOLIET RD (I-294 TO IL 43 (HARLEM AVE.)) ROADWAY PLAN				FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ci:\pw_work\pws\dos\abebawa\d0157545\0103	10-shr-plan.dgn	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	COOK	51	11	
	PLOT SCALE = 50,0000 ' / IN.	CHECKED -	REVISED -											
	PLOT DATE = 11/20/2009	DATE -	REVISED -											
											CONTRACT NO. 60142		ILLINOIS FED. AID PROJECT	



PROP. TERMO. PVT. MRK.- 12"
(DIAGONAL, YELLOW)

PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
PROP. HMA SURFACE REMOVAL 2 1/2"

PROP. TERMO. PVT. MRK.- 4"
(SKIP-DASH, WHITE)



PROP. TERMO. PVT. MRK.- 24"
(STOP LINE)

PROP. TERMO. PVT. MRK.- 12"
(DIAGONAL, YELLOW)

PROP. TERMO. PVT. MRK.- 8"

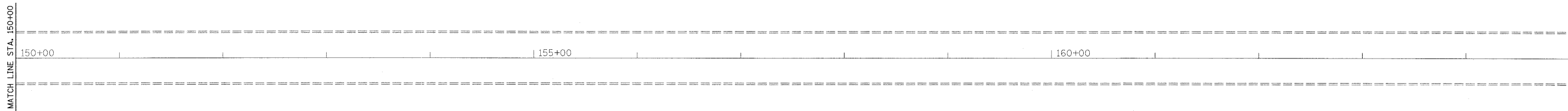
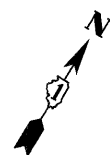
PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
PROP. HMA SURFACE REMOVAL 2 1/2"

PROP. TERMO. PVT. MRK.- 4"
(SKIP-DASH, WHITE)

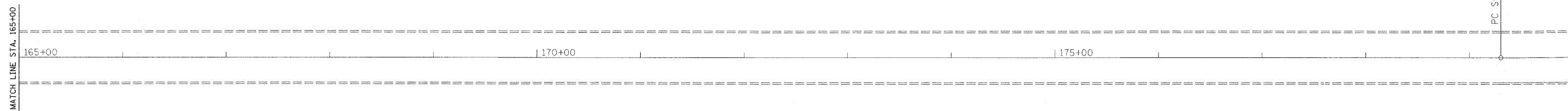
FILE NAME =	USER NAME = abebawa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOLIET RD (I-294 TO IL 43 (HARLEM AVE.)) ROADWAY PLAN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\p\dot\abebawa\d0157545\0103	10-shr-plan.dgn	DRAWN -	REVISED -					*	2009-131 RS	COOK	51	12
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -					SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 60142	
	PLOT DATE = 11/20/2009	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

•FAU 3562 & FAU 1504

JOLIET RD.
QUARRY RD.

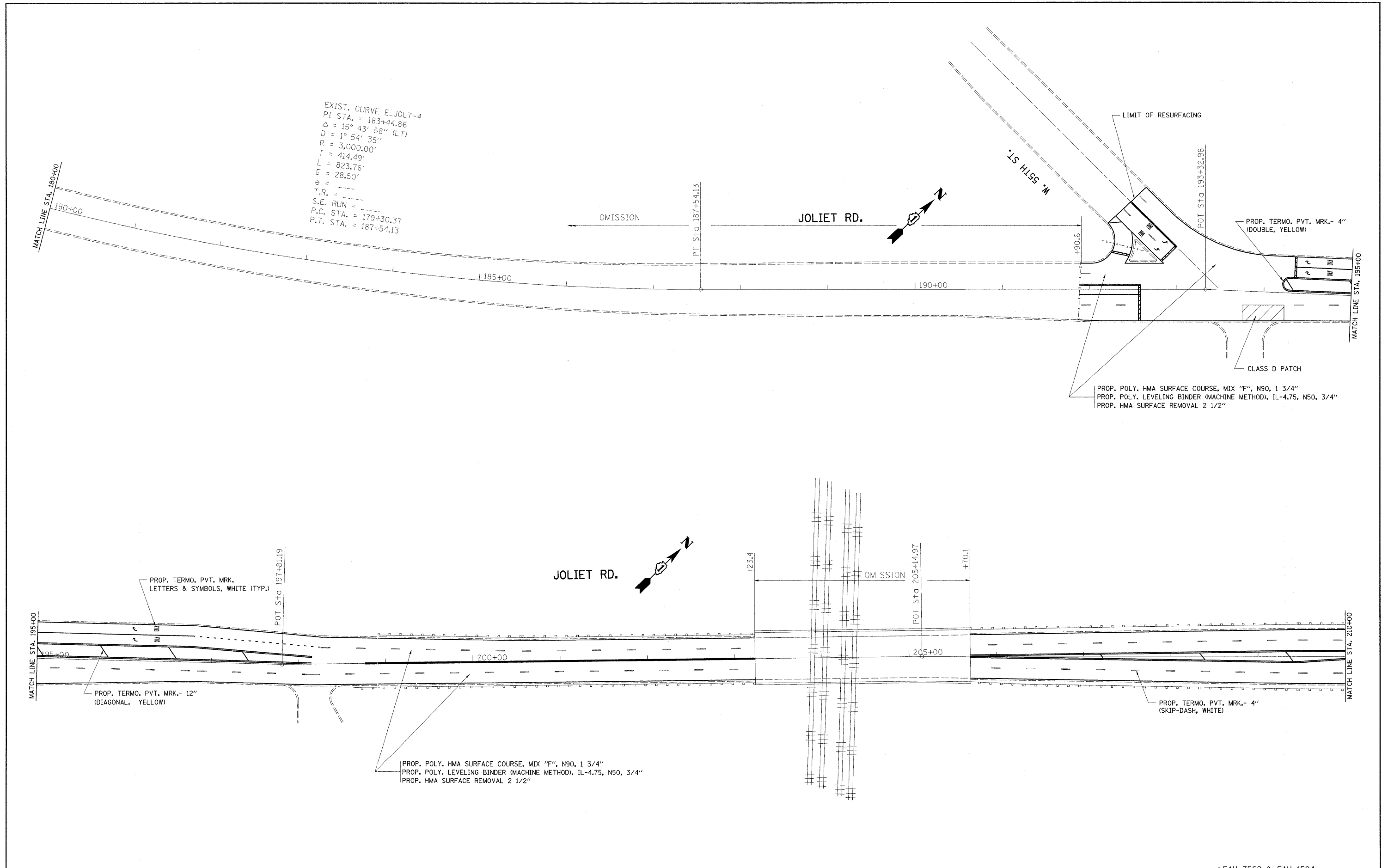


JOLIET RD.
QUARRY RD.



* FAU 3562 & FAU 1504

FILE NAME = c:\pw_work\pwidat\abebaw\0157545\0103	USER NAME = abebaw 10-shr-plen.dgn	DESIGNED - DRAWN -	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOLIET RD (I-294 TO IL 43 (HARLEM AVE.)) ROADWAY PLAN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -					*	2009-131 RS	COOK	51	13
	PLOT DATE = 11/20/2009	DATE -	REVISED -					SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 60142	



EXIST. CURVE E. JOLIET-4
 PI STA. = 183+44.86
 $\Delta = 15^\circ 43' 58''$ (LT)
 $D = 1^\circ 54' 35''$
 $R = 3,000.00'$
 $T = 414.49'$
 $L = 823.76'$
 $E = 28.50'$
 $\theta =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 179+30.37$
 $P.T. STA. = 187+54.13$

PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
 PROP. HMA SURFACE REMOVAL 2 1/2"

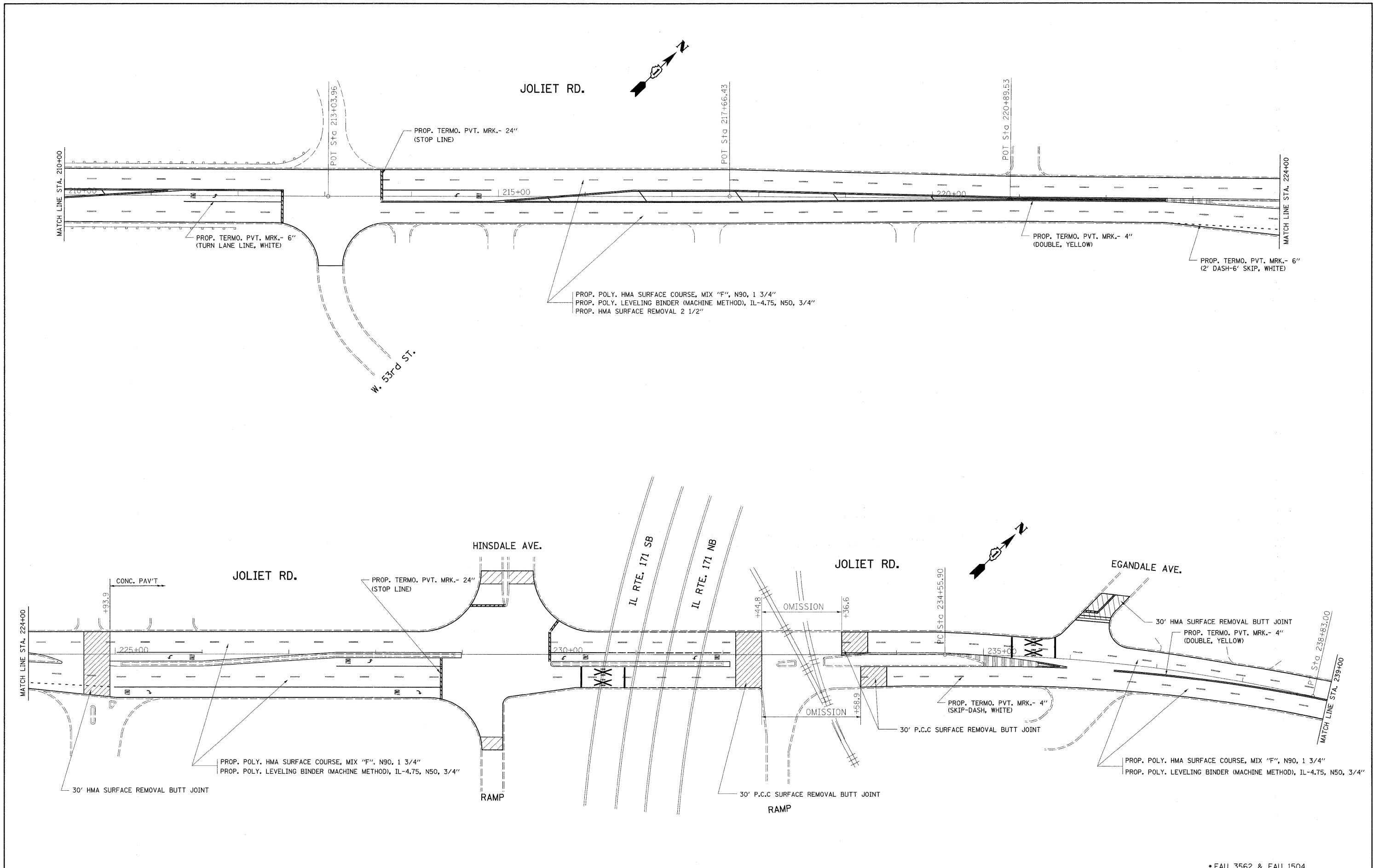
PROP. TERMO. PVT. MRK.- 12"
 (DIAGONAL, YELLOW)

PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
 PROP. HMA SURFACE REMOVAL 2 1/2"

PROP. TERMO. PVT. MRK.- 4"
 (SKIP-DASH, WHITE)

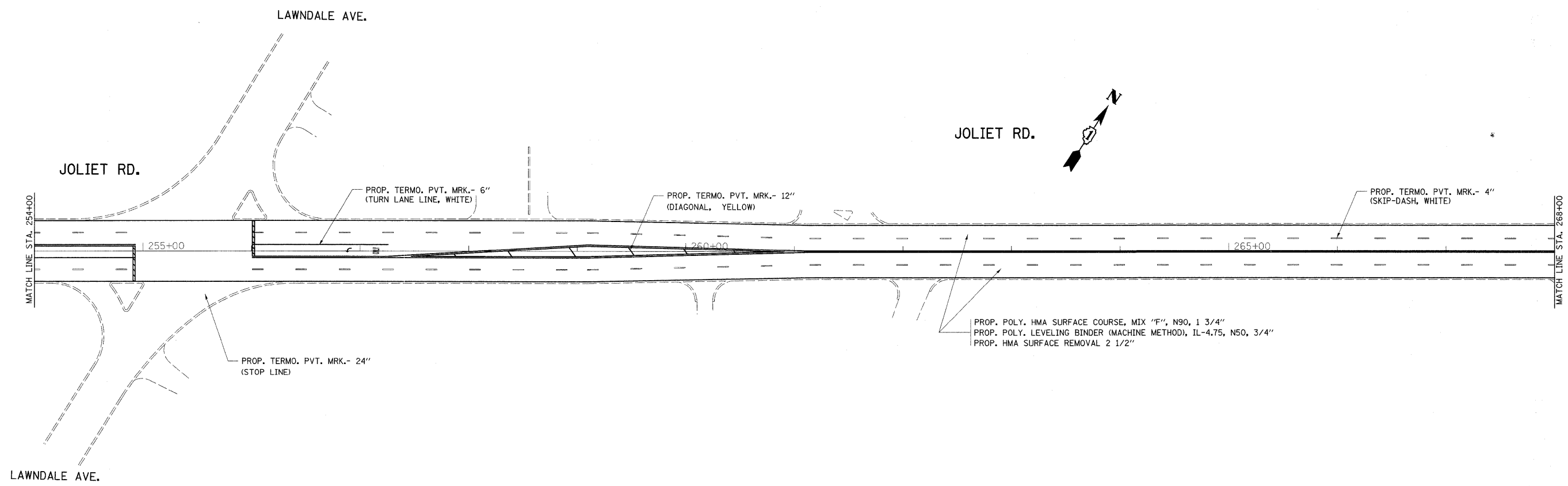
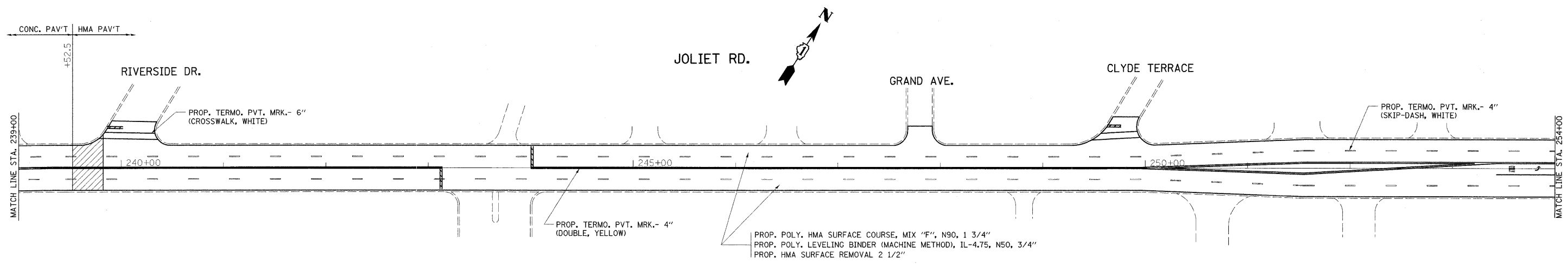
FILE NAME =		USER NAME = abebawa		DESIGNED -		REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		JOLIET RD (I-294 TO IL 43 (HARLEM AVE.)) ROADWAY PLAN			F.A.U. RTE.		SECTION		COUNTY		TOTAL SHEETS		SHEET NO.	
et:\pw\work\p\d01\abebawa\d0157545\103		20-sht-plan.dgn		DRAWN -		REVISED -							•		2009-131 RS		COOK		51		14	
PLOT SCALE = 50.0000' / IN.		CHECKED -		REVISED -		SCALE:							SHEET NO.		OF SHEETS		STA.		TO STA.		CONTRACT NO. 60142	
PLOT DATE = 11/20/2009		DATE -		REVISED -		ILLINOIS FED. AID PROJECT																

*FAU 3562 & FAU 1504

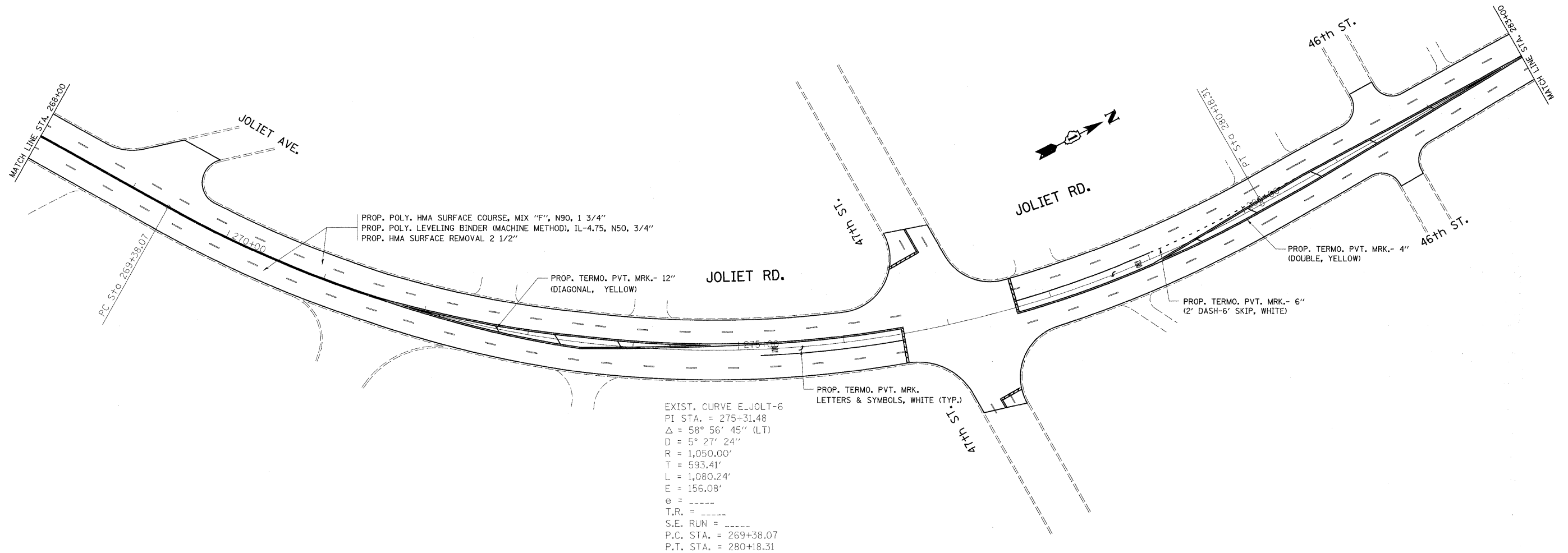


FILE NAME = ci:\pw_work\p\dot\abebaw\0157545\0103		USER NAME = abebaw 10-sh1-plan.dgn		DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		JOLIET RD (I-294 TO IL 43 (HARLEM AVE.)) ROADWAY PLAN		F.A.U. RTE. *	SECTION 2009-131 RS	COUNTY COOK	TOTAL SHEETS 51	SHEET NO. 15
PLOT SCALE = 50.0000' / IN. PLOT DATE = 11/20/2009		DATE -				SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 60142 ILLINOIS FED. AID PROJECT		

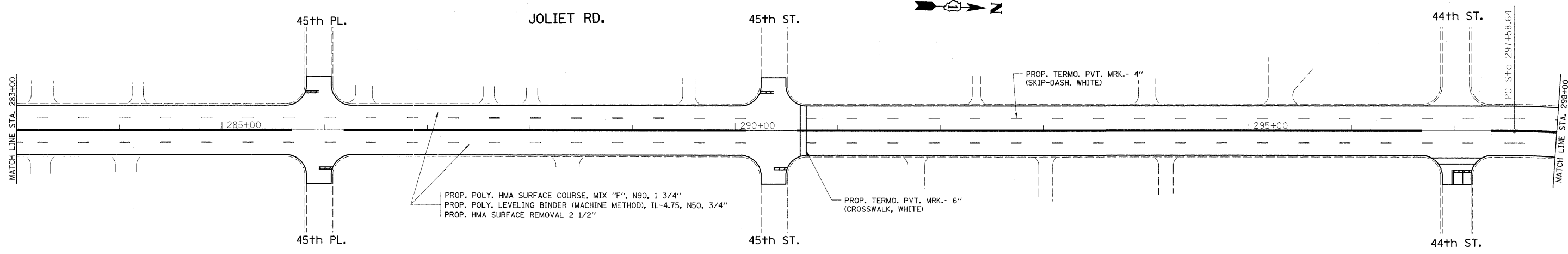
• FAU 3562 & FAU 1504



FILE NAME =	USER NAME = abebawo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOLIET RD (I-294 TO IL 43 (HARLEM AVE.)) ROADWAY PLAN				F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pw_work\pwwidot\abebawo\d0157545\103	10-sh-t-plan.dgn	DRAWN -	REVISED -						•	2009-131 RS	COOK	51	16
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -						CONTRACT NO. 60142				
	PLOT DATE = 11/20/2009	DATE -	REVISED -						ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.			

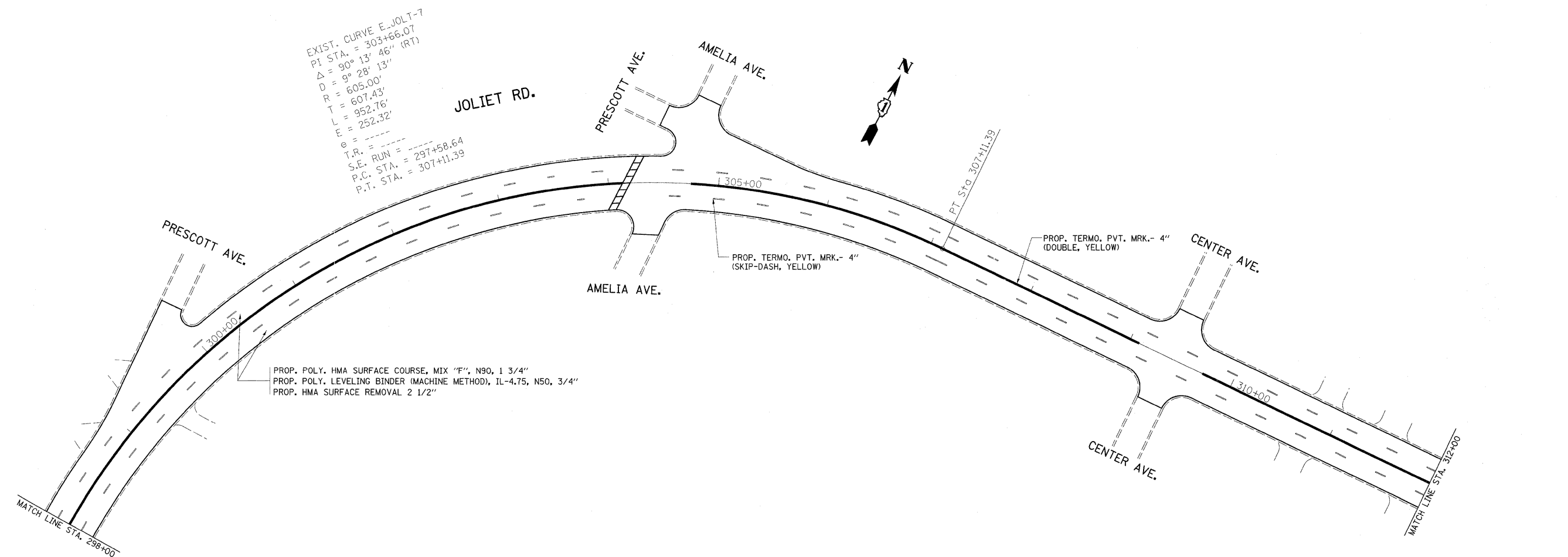


EXIST. CURVE E. JOLT-6
 PI STA. = 275+31.48
 $\Delta = 58^\circ 56' 45''$ (LT)
 $D = 5^\circ 27' 24''$
 $R = 1,050.00'$
 $T = 593.41'$
 $L = 1,080.24'$
 $E = 156.08'$
 $e = \text{----}$
 $T.R. = \text{----}$
 $S.E. \text{ RUN} = \text{----}$
 $P.C. \text{ STA.} = 269+38.07$
 $P.T. \text{ STA.} = 280+18.31$



FILE NAME = c:\pw_work\p\dot\abebawa\d0157545\10183710-sh1-plan.dgn	USER NAME = abebawa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOLIET RD (I-294 TO IL 43 (HARLEM AVE.)) ROADWAY PLAN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 58,0000' / IN.	CHECKED -	REVISED -	*					2009-131 RS	COOK	51	17	
PLOT DATE = 11/20/2009	DATE -	REVISED -	CONTRACT NO. 60142									
SCALE: SHEET NO. OF SHEETS STA. TO STA.								ILLINOIS FED. AID PROJECT				

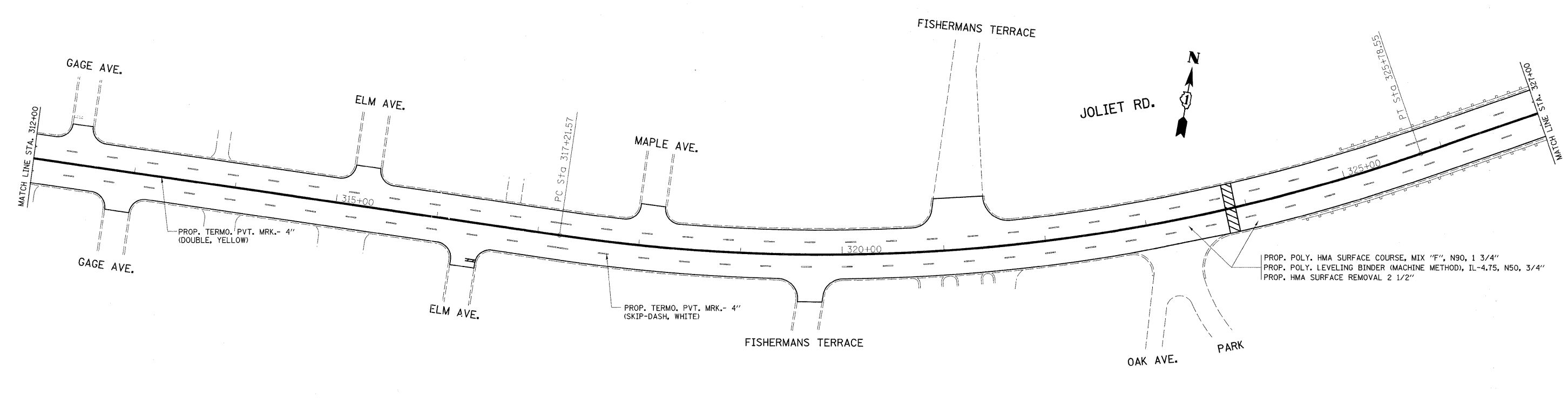
EXIST. CURVE E..JOLIET-7
 PI STA. = 303+66.07
 $\Delta = 90^\circ 13' 46''$ (RT)
 $D = 9^\circ 28' 13''$
 $R = 605.00'$
 $T = 607.43'$
 $L = 952.76'$
 $E = 252.32'$
 $e = \dots$
 T.R. = \dots
 S.E. RUN = 297+58.64
 P.C. STA. = 307+11.39
 P.T. STA. = 307+11.39



PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
 PROP. HMA SURFACE REMOVAL 2 1/2"

PROP. TERMO. PVT. MRK.- 4"
 (SKIP-DASH, YELLOW)

PROP. TERMO. PVT. MRK.- 4"
 (DOUBLE, YELLOW)



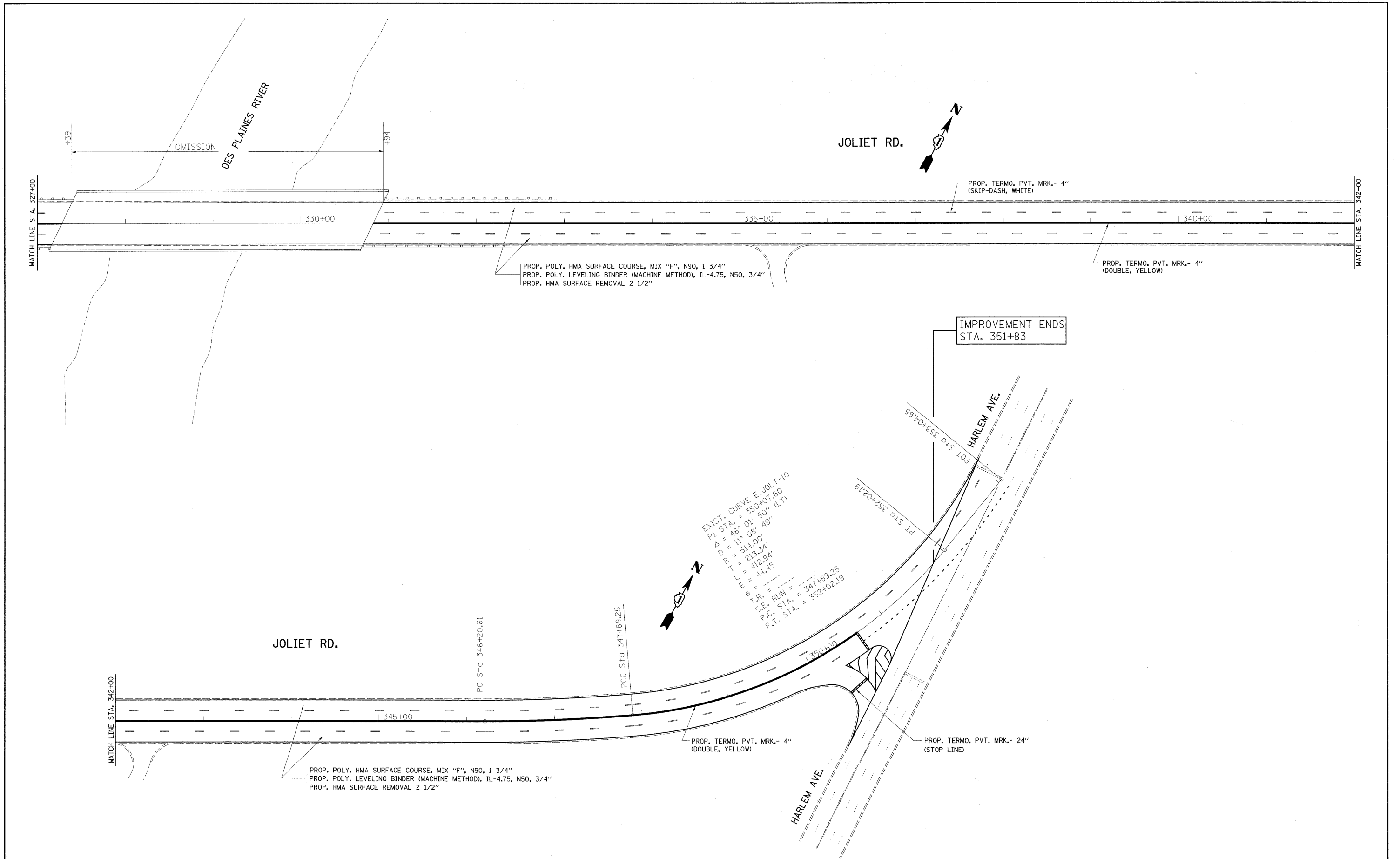
PROP. TERMO. PVT. MRK.- 4"
 (DOUBLE, YELLOW)

PROP. TERMO. PVT. MRK.- 4"
 (SKIP-DASH, WHITE)

PROP. POLY. HMA SURFACE COURSE, MIX "F", N90, 1 3/4"
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
 PROP. HMA SURFACE REMOVAL 2 1/2"

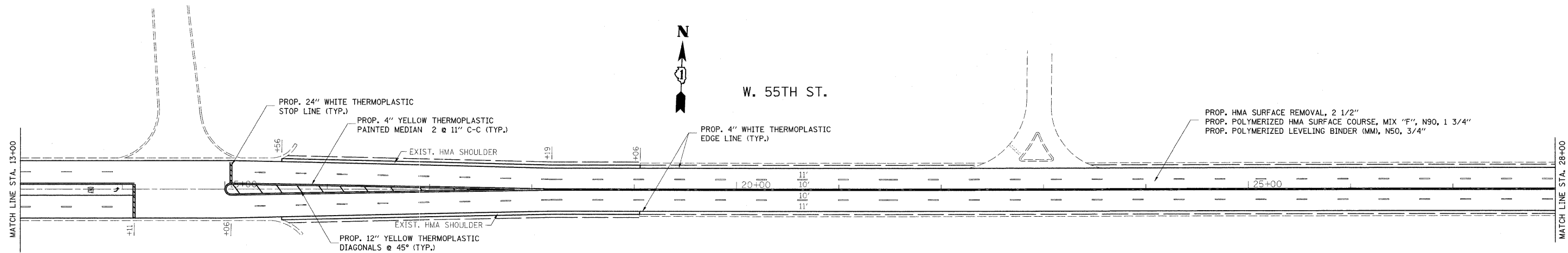
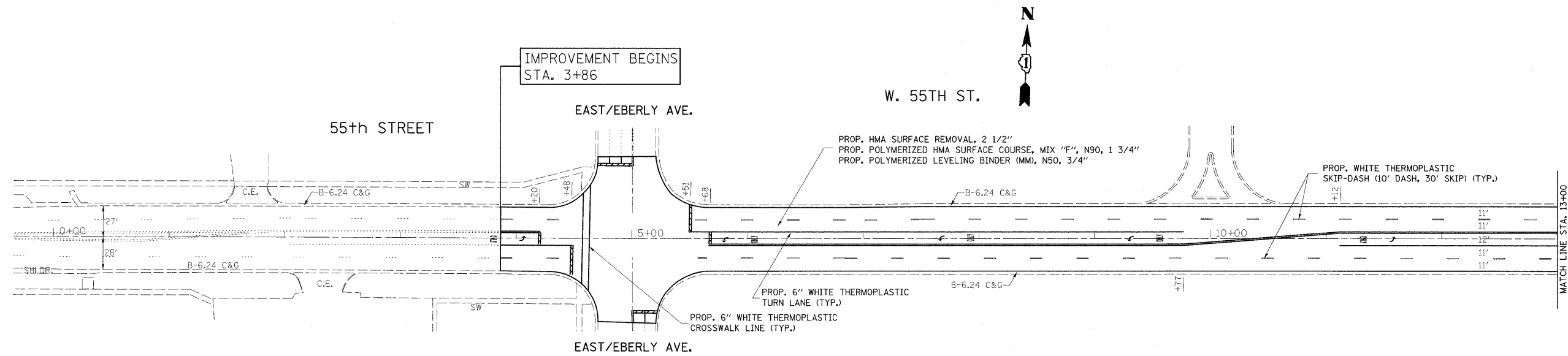
FILE NAME =	USER NAME = abebawa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOLIET RD (I-294 TO IL 43 (HARLEM AVE.)) ROADWAY PLAN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw_work\pwidat\abebawa\d0157545\103	10-shr-pln.dgn	DRAWN -	REVISED -					*	2009-131 RS	COOK	51	18
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -					CONTRACT NO. 60142				
	PLOT DATE = 11/20/2009	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.			

* FAU 3562 & FAU 1504



•FAU 3562 & FAU 1504

FILE NAME =	USER NAME = abebawa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	JOLIET RD (I-294 TO IL 43 (HARLEM AVE.) ROADWAY PLAN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
si:\pwwork\p\WIDOT\ABEBAWA\d0157545\10103710-shit-plan.dgn		DRAWN -	REVISED -					*	2009-131 RS	COOK	51	19
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -					CONTRACT NO. 60142				
PLOT DATE = 11/25/2009		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.			



FILE NAME =
 c:\pwwork\p\WIDOT\ABEBAWA\0157545\0103710-sht-plan.dgn

USER NAME = abebawa
 PLOT SCALE = 50,0000 ' / IN.
 PLOT DATE = 11/25/2009

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

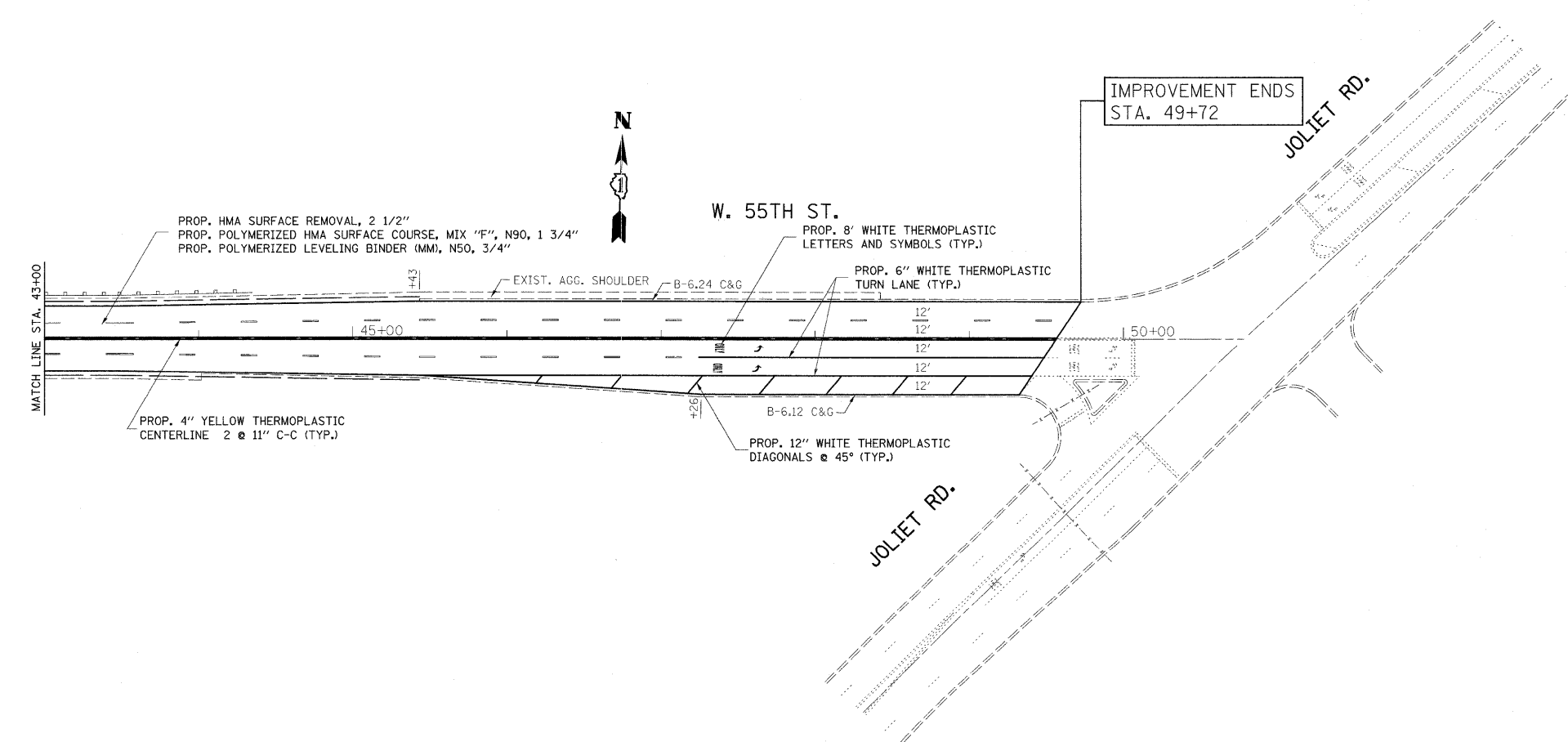
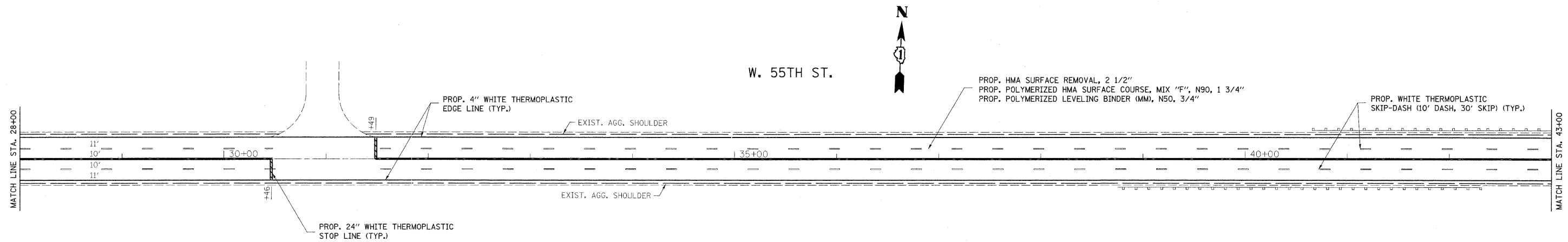
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**55TH STREET
 ROADWAY AND PAVEMENT MARKING PLAN**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2009-131 RS	COOK	51	20
			CONTRACT NO. 60142	
ILLINOIS FED. AID PROJECT				

• FAU 3562 & FAU 1504



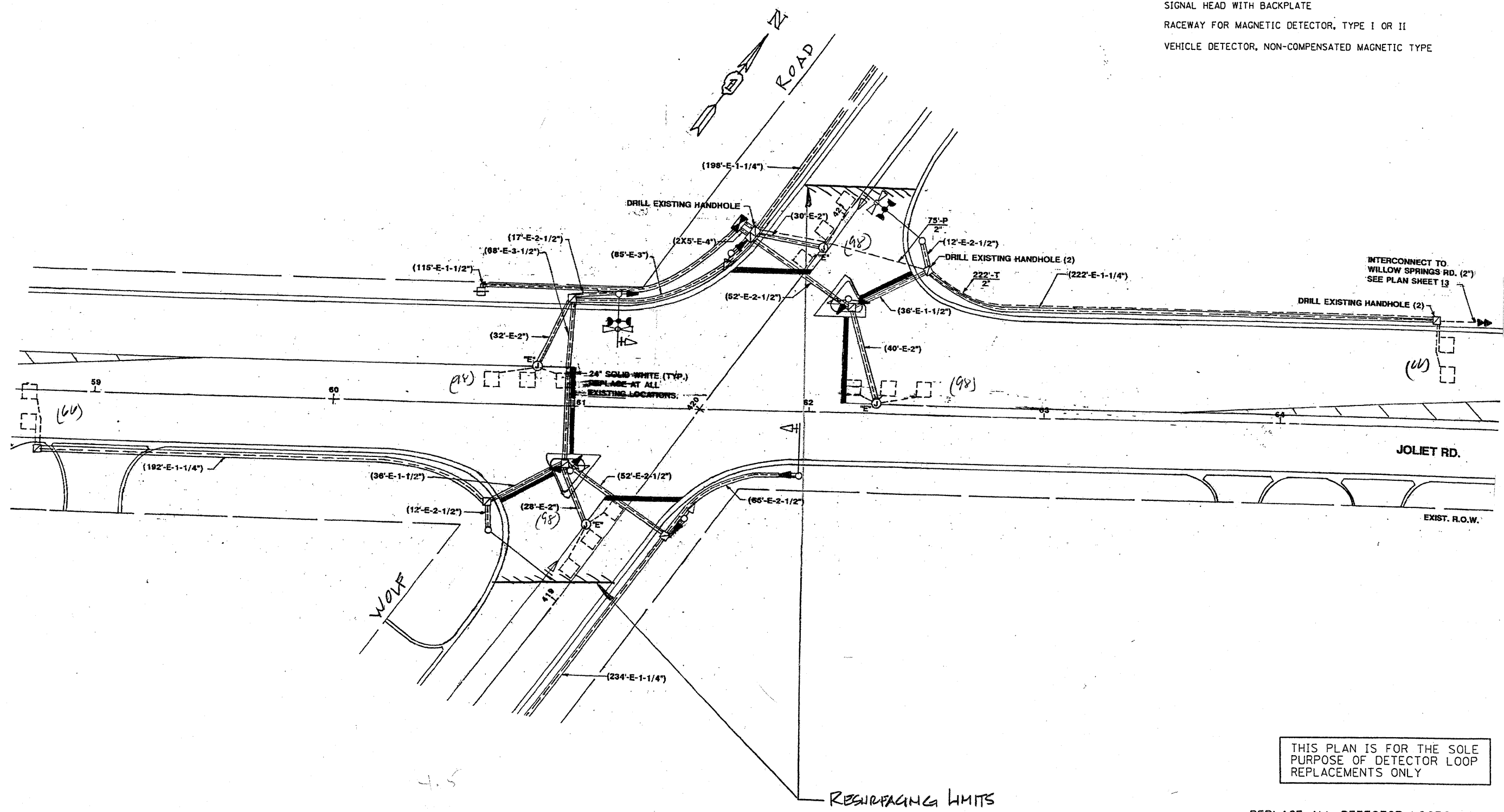
IMPROVEMENT ENDS
STA. 49+72

FILE NAME =	USER NAME = abebawa	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	55TH STREET ROADWAY AND PAVEMENT MARKING PLAN				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pw_work\PMIDOT\AREBAWA\d0157545\0103710-shit-plan.dgn		DRAWN -	REVISED -		•	2009-131 RS	COOK	51	21				
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 60142				
PLOT DATE = 11/25/2009		DATE -	REVISED -		ILLINOIS FED. AID PROJECT								

• FAU 3562 & FAU 1504

TRAFFIC SIGNAL LEGEND

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



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
86600600	524	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = kenthphixaybc	DESIGNED - BCK	REVISED -
c:\pwwork\pwwid001\KANTHAPHIXAYBC\081126	4\traffic.legend.v7.dgn	DRAWN - BCK	REVISED -
	PLOT SCALE = 39.9360' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 4/3/2009	DATE -	REVISED -

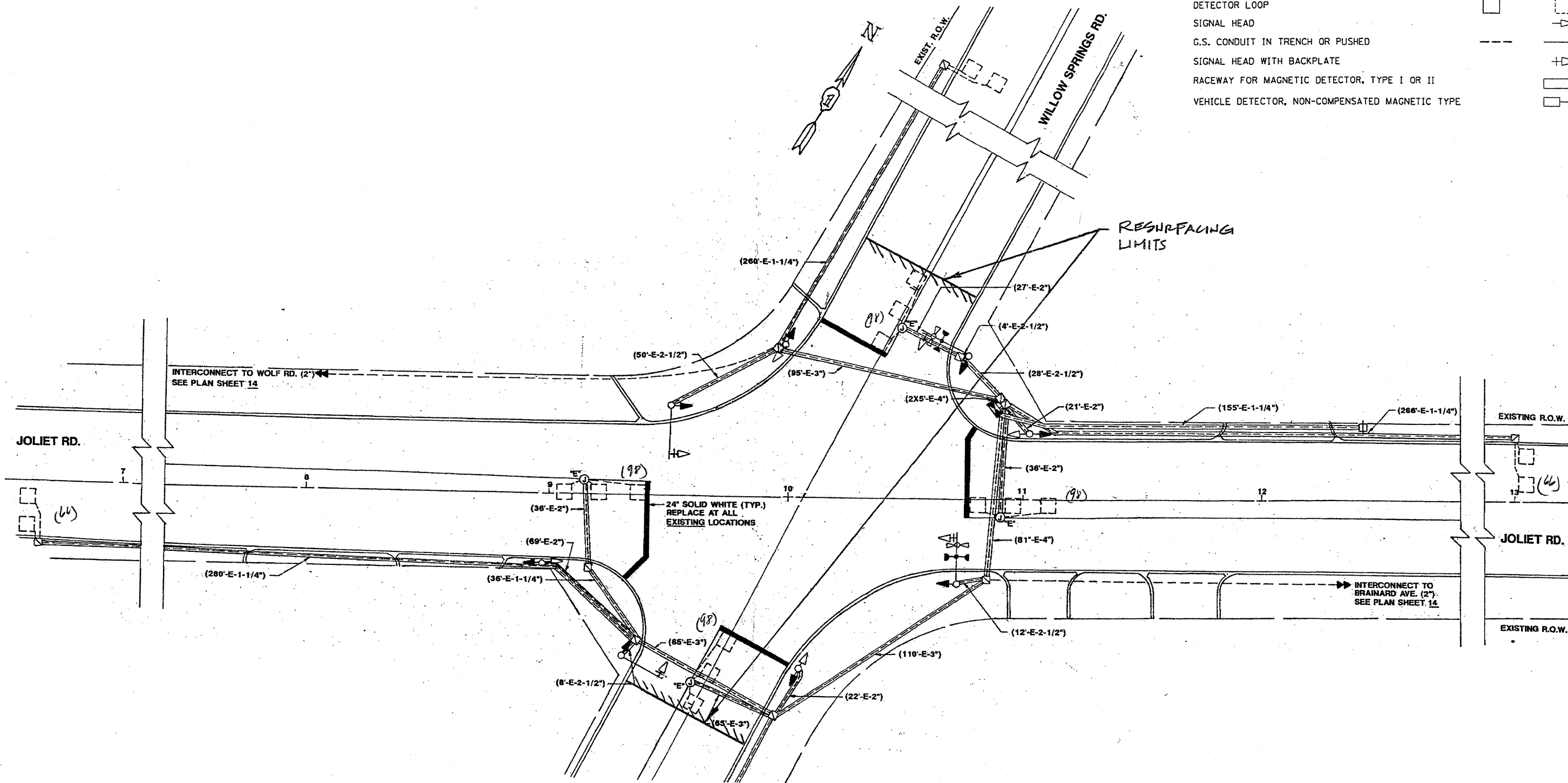
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE - DETECTOR LOOP REPLACEMENT
JOLIET ROAD @ WOLF RD.

SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.	FALL RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			* FAU 3562 + FAU 1504	2009-131RS	COOK	51	22
			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	CONTRACT NO. 60142	

TRAFFIC SIGNAL LEGEND

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



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
86600600	524	FOOT	DETECTOR LOOP, REPLACEMENT * FAU 3562 + FAU 1504

FILE NAME =	USER NAME = kenthaphixaybc	DESIGNED - BCK	REVISED -
c:\pwwork\p\WIDOT\KANTHAPHIXAYBC\d01126	4\traffic_legend_v7.dgn	DRAWN - BCK	REVISED -
	PLOT SCALE = 39.9368' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 4/3/2009	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE - DETECTOR LOOP REPLACEMENT
JOLIET ROAD @ WILLOW SPRINGS**

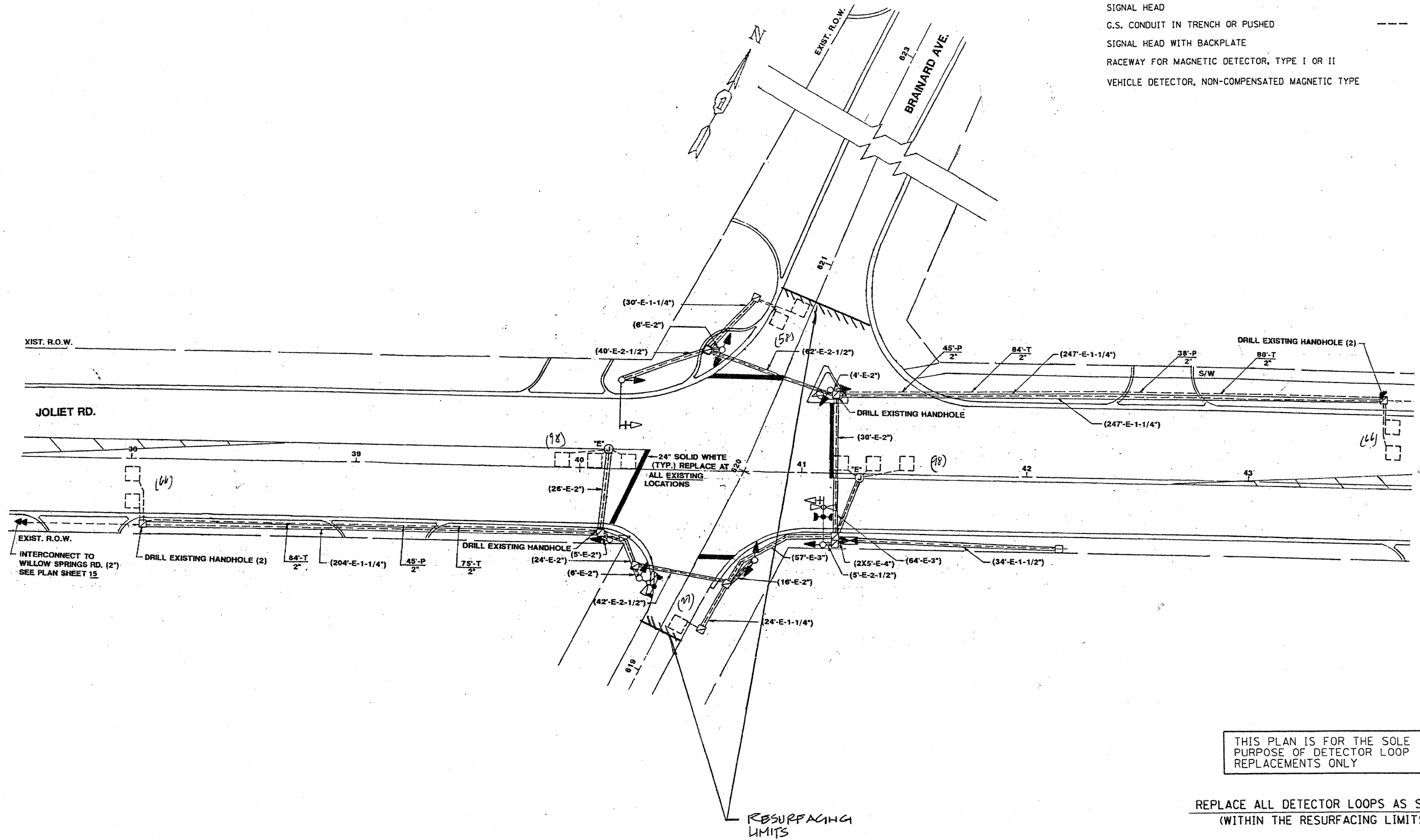
FALL RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2009-13125	LOOK	51	23
CONTRACT NO.			60142	

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

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

TRAFFIC SIGNAL LEGEND

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



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

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

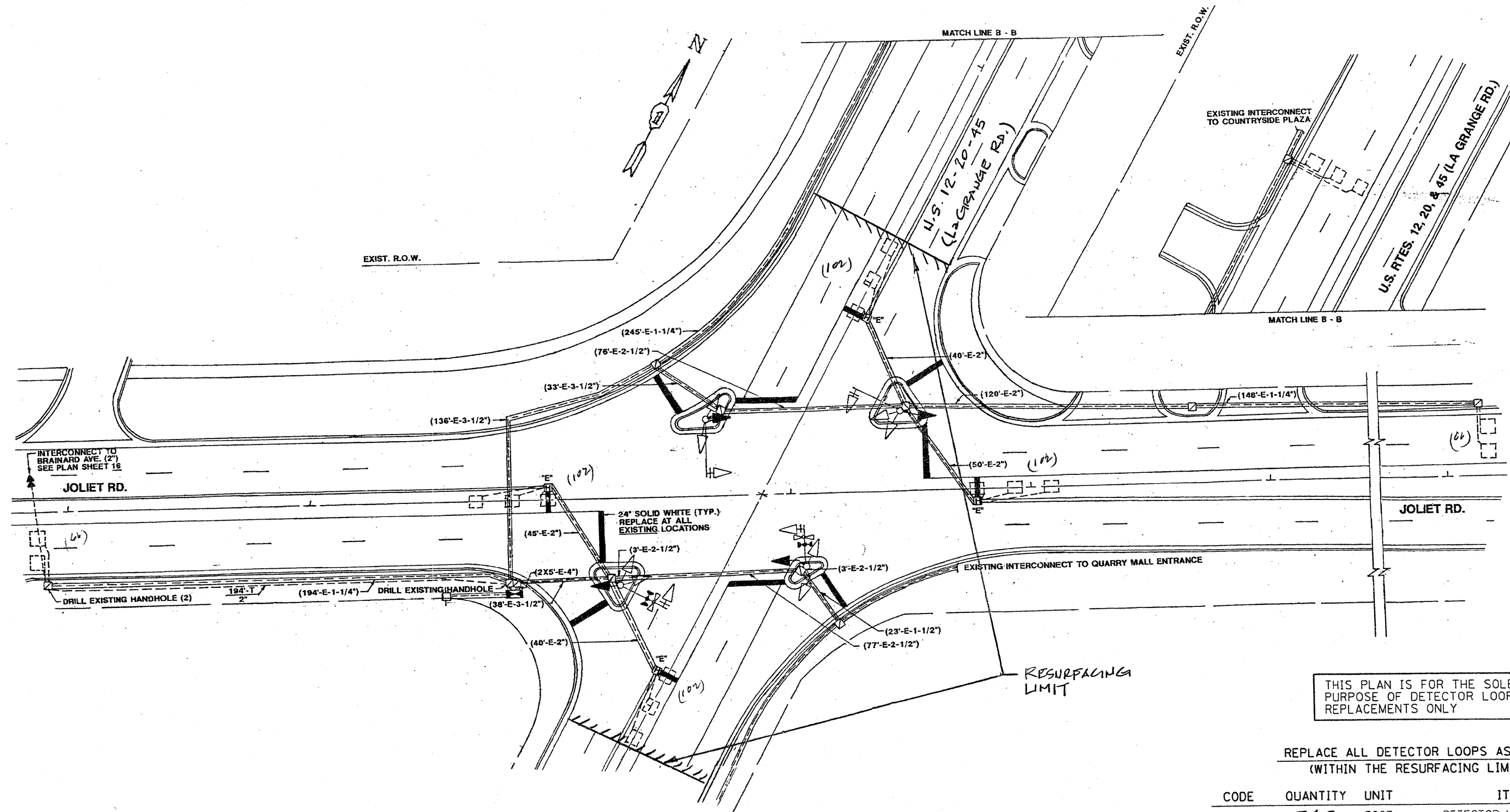
CODE	QUANTITY	UNIT	ITEM
86600600	413	FOOT	DETECTOR LOOP, REPLACEMENT * FALL 3562 + FALL 1504

FILE NAME =	USER NAME = karthaphixaybc	DESIGNED - BCK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE - DETECTOR LOOP REPLACEMENT JOLIET ROAD @ BRAINARD AV.	F.A.I.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\PMIDOT\KANTHAPHIXAYBC\01126	tr\office\legend.v7.dgn	DRAWN - BCK	REVISED -			* 2009-131 RS	COOK	51	24	
	PLOT SCALE = 3/8" = 1' IN.	CHECKED - DAD	REVISED -			CONTRACT NO.				
	PLOT DATE = 4/3/2009	DATE	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

THE LOCAL AGENCY SHALL BE NOTIFIED 72-HOURS IN ADVANCE OF THEIR IN-PAVEMENT "RLR" DETECTION UNITS DUE TO ROADWAY RESURFACING. THE COST TO REPLACE THIS EQUIPMENT IS SOLELY THE RESPONSIBILITY OF THE AGENCY ON RECORD, AS AGREED.

TRAFFIC SIGNAL LEGEND

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



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
86600600	540	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = kanthaphixaybc	DESIGNED - BCK	REVISED -
c:\pwwork\p\WIDOT\KANTHAPHIXAYBC\08126	4\traffic.legend_v7.dgn	DRAWN - BCK	REVISED -
	PLOT SCALE = 39.9360' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 4/3/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE - DETECTOR LOOP REPLACEMENT
JOLIET RD. @ U.S. RTE. 12-20-45

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

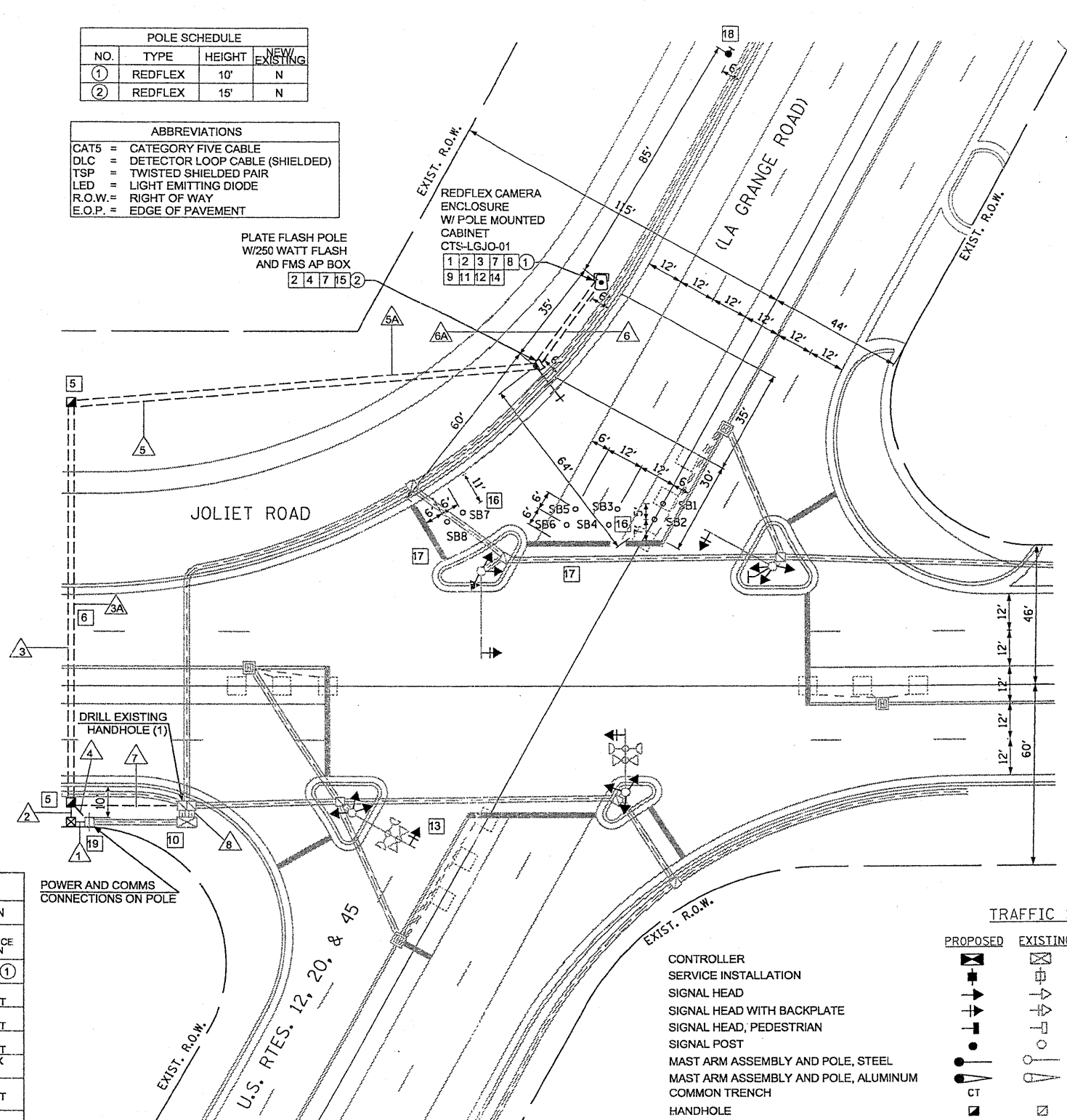
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* 2009-131 RS		COOK	51	25
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 60142	

CONSTRUCTION NOTES

- POLE MOUNTED CABINET SETUP. ALL WIRES CONNECTED IN THE POLE MOUNTED CABINET FOR EACH APPROACH.
- INSTALL FOUNDATION AND POLE FOR REDFLEX EQUIPMENT. CONNECT POLE TO SOLID STRANDED BOND GROUND. SEE DRAWING FOR LOCATION. SEE POLE DETAIL. PAINT POLE TO CITY AND IDOT SPECIFICATION.
- INSTALL CAMERA ENCLOSURE ON REDFLEX POLE AND AIM AT MONITORED APPROACH.
- INSTALL A 250 WATT FLASH UNIT ON REDFLEX POLE, AIM AT MONITORED APPROACHES.
- INSTALL HANDHOLES OF THE SIZE AND TYPE PER IDOT STANDARDS-VERIFY BEFORE INSTALLATION.
- CONTRACTORS SHALL COMPLETE AS MANY POTHOLES AS NECESSARY. CONDUIT TO BE BORED UNDER ROADWAY. ALL BORE SHOTS SHALL BE DONE AT THE REQUIRED DEPTH TO MEET THE IDOT STANDARDS.
- ALL SPARE CONDUCTORS/WIRES SHALL TERMINATE AT THE HANDHOLES, IN THE CAMERA AND FLASH ENCLOSURES, AND IN THE POLE MOUNTED CABINET. SPARE WIRES SHALL BE TAPED AT THE END, CONTINUES IN LENGTH AND IDENTIFIABLE WITH PERMANENT IDENTIFICATION BAND AND TAG AS "RTS PROPERTIES".
- CONTRACTOR SHALL TERMINATE ALL POWER CIRCUITS INTO REDFLEX ENCLOSURES. INSTALL 40 AMP BREAKER INTO NEW POWER PEDESTAL (REDFLEX SERVICE INSTALLATION) FOR 120V SUPPLY TO CAMERA ENCLOSURE.
- INSTALL 5 AMP FUSE INSIDE POLE MOUNTED CABINET, TO PROTECT IDOT TRAFFIC CABINET.
- INSTALL MINIATURE CURRENT TRANSFORMERS TO DETECT RED PHASE AND NEUTRAL, INSIDE TRAFFIC CABINET. SEE CONDUCTOR SCHEDULE FOR APPROACHES.
- TERMINATE POLE TO REDFLEX ENCLOSURE POWER CIRCUIT (HOT & NEUTRAL). CONNECT TO SOLID STRANDED BOND GROUND.
- INSTALL COMCAST INTERNET SERVICE INTO POLE MOUNTED CABINET.
- INSTALL LED SIGNAL HEADS. AIM CAMERA SO SIGNAL HEAD, AND ENFORCED LANES ARE VISIBLE TO REDFLEX CAMERA.
- TERMINATE #14 WIRE TO RED PHASE AND NEUTRAL INSIDE IDOT TRAFFIC CABINET. SEE CONDUCTOR SCHEDULE FOR APPROACHES. (NOTE: NOTIFY THE TRAFFIC OPERATIONS DEPARTMENT OF THE CITY 7 DAYS BEFORE CONNECTION)
- FMS ANTENNA IS LOCATED ON TOP OF FLASH POLE. POLE NEEDS TO BE 12' TO 15' TALL WITH AP LOCATED AT LEAST 12' HIGH (FOR DETAILS SEE CAMERA ENCLOSURE AND FLASH POLE W/FMS AP BOX (TYPE 1) DRAWING # 3072-101).
- INSTALL FMS FOR REDFLEX DETECTION, TWO FMS DEVICES PER LANE. THE FMS ACCESS POINT BOX IS ATTACHED TO THE FLASH POLE FOR EACH APPROACH.
- REFRESH STRIPING (STOP BAR AND LANES ETC) AS NEEDED AT THE MONITORED APPROACHES.
- INSTALL "RED LIGHT PHOTO ENFORCED" SIGN R10-1104 (36"X36"). SIGNS WILL BE LOCATED PER SPECIFICATION OF IDOT ENGINEER OR CITY ENGINEER AND PLACED BY CONTRACTOR.
- CONTRACTOR SHALL CONNECT SERVICE CABLES TO COMED SECONDARY SERVICE ON WOOD POLE AND ROUTE DOWN THE POLE TO AN UNDERGROUND CONDUIT TO REDFLEX SERVICE INSTALLATION.

POLE SCHEDULE			
NO.	TYPE	HEIGHT	NEW/EXISTING
1	REDFLEX	10'	N
2	REDFLEX	15'	N

ABBREVIATIONS	
CAT5	= CATEGORY FIVE CABLE
DLC	= DETECTOR LOOP CABLE (SHIELDED)
TSP	= TWISTED SHIELDED PAIR
LED	= LIGHT EMITTING DIODE
R.O.W.	= RIGHT OF WAY
E.O.P.	= EDGE OF PAVEMENT



GENERAL NOTES

- ALL EXISTING UTILITIES SHOWN WITHIN THE PLANS ARE THE BEST AVAILABLE INFORMATION PROVIDED BY COOPERATING UTILITY COMPANIES. NEITHER REDFLEX AND ITS CONSULTANT, IDOT, NOR THE MUNICIPALITY ASSUME RESPONSIBILITY AS TO THE PRECISE LOCATION OR ACCURACY OF SHOWN UTILITIES. THE CONTRACTOR SHALL PROPERLY FIELD VERIFY UTILITY LOCATIONS AND SHALL PROPERLY PROTECT, MAINTAIN AND/OR REPAIR ANY DAMAGE OF ALL KNOWN AND ANY EXPOSED UNKNOWN UTILITIES SHOWN WITHIN THE PLANS. REDFLEX AND ITS CONSULTANT, IDOT, AND THE MUNICIPALITY ASSUME NO LIABILITY RESULTING IN POSSIBLE DEFICIENCIES IN UTILITY LOCATIONS AND NO REMEDIAL OR ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ALL WORK SHALL CONFORM TO ALL NATIONAL BUILDING AND ELECTRICAL CODES EXCEPT WHEN THE STATE D.O.T. AND/OR THE MUNICIPALITY STANDARDS SUPERSEDE.
- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC) ADOPTED JANUARY 1, 2007 AND THE IDOT SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2007.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE TRAFFIC SIGNAL INSTALLATION IN PROPER OPERATING CONDITION. THE CONTRACTOR MUST FOLLOW THE PROCEDURES AS SPECIFIED IN THE ARTICLE 801.11 OF THE IDOT STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL PERFORM THE MAINTENANCE PROCEDURES AS OUTLINED IN IDOT DISTRICT 1 "TRAFFIC SIGNAL SPECIAL PROVISIONS".
- ALL SUBSTRUCTURES AND UNDERGROUND UTILITIES MUST BE LOCATED PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL AND MUST NOTIFY ALL UTILITY COMPANIES WITHIN A MINIMUM OF TWO WORKING DAYS PRIOR TO START OF WORK.
- REDFLEX WILL MEET WITH THE CONTRACTOR, MUNICIPALITY AND IDOT (ILLINOIS DEPARTMENT OF TRANSPORTATION) OFFICIALS, AND POLICE TO MARK THE EXACT LOCATION OF THE POLES AND CABINET PRIOR TO CONSTRUCTION.
- TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIMES. TEMPORARY SHUTDOWNS OR DISRUPTION MUST BE COORDINATED WITH THE MUNICIPALITY AND IDOT.
- PRIOR TO CONSTRUCTING THE FOUNDATIONS AND/OR INSTALLING THE EQUIPMENTS FOR REDFLEX, THE CONTRACTOR SHALL ASCERTAIN THAT THE ADA CLEARANCE REQUIREMENTS FOR USABLE SIDEWALK WIDTH ARE MET AT ALL THE EQUIPMENT LOCATIONS.

	CONDUCTORS		CONDUITS								TERMINATION			
	SOURCE	AWG#	1	2	3	3A	4	5	5A	6		6A	7	8
NORTH APPROACH	POLE ①	#8		2	2			2		2				REDFLEX SERVICE INSTALLATION
	RTS CABINET	#8												
	POLE ②	#10								2				CAMERA ENCLOSURE ①
REDFLEX	(FMS ANTENNA)	CAT5									1			POLE ①
	COMMUNICATION	COAXIAL				1	1							RTS CABINET
IDOT	REDFLEX SERVICE INSTALLATION	#8 GND.		1	1			1		1				POLE ①
	TRAFFIC RED PHASE	#14										7	7	RTS CABINET
COMED	COMMONWEALTH EDISON	#6	2											ALL REDFLEX EQUIPMENT
														POLE ①
TOTAL	TOTAL NEW CONDUCTORS			2	1	10	1	1	10	1	13	2	7	RTS CABINET
	CONDUIT SIZE (INCHES)			2	2	3	3	2	2	2	3	2	2	RTS CABINET
	CONDUIT LENGTH (~ FEET)			6	6	133	133	9	152	152	32	32	37	ALL REDFLEX EQUIPMENT
	NEW/EXISTING CONDUIT			N	N	N	N	N	N	N	N	N	N	E

POWER AND COMMS CONNECTIONS ON POLE

FOR UNDERGROUND UTILITY LOCATIONS, CALL J.U.L.I.E. TOLL FREE TEL. 800-892-0123

TRAFFIC SIGNAL LEGEND		PROPOSED	EXISTING
CONTROLLER			
SERVICE INSTALLATION			
SIGNAL HEAD			
SIGNAL HEAD WITH BACKPLATE			
SIGNAL HEAD, PEDESTRIAN			
SIGNAL POST			
MAST ARM ASSEMBLY AND POLE, STEEL			
MAST ARM ASSEMBLY AND POLE, ALUMINUM			
COMMON TRENCH			
HANDHOLE			
HEAVY DUTY HANDHOLE			
DOUBLE HANDHOLE			
GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED			
PEDESTRIAN PUSHBUTTON DETECTOR			
DETECTOR LOOP			
EMERGENCY VEHICLE SYSTEM DETECTOR			

SEAL	DATE	INITIAL	DESCRIPTION
	11/18/2008	[Signature]	DESIGN
	11/30/2009	[Signature]	REVISED

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HWY-WAY
SUITE 308
CHICAGO, ILLINOIS 60631
TEL. (773)774-5910

REDFLEX TRAFFIC SYSTEMS
15020 N. 74TH STREET
SCOTTSDALE, AZ 85260
PH: 480 607 0705

DESIGNED BY:	REVIEWED BY CITY STAFF:	APPROVED BY:
XXX	DEPARTMENT: PUBLIC WORKS (OPER.)	DATE: []/[]/[]
XXX	DEPARTMENT: PUBLIC WORKS (CONV.)	DATE: []/[]/[]
XXX	DEPARTMENT: PUBLIC WORKS (WATER)	DATE: []/[]/[]
XXX	DEPARTMENT: PUBLIC WORKS (TRAF.)	DATE: []/[]/[]
	FIRE DEPT.	DATE: []/[]/[]

CITY OF: **COUNTRYSIDE**
REDLIGHT PHOTO ENFORCEMENT

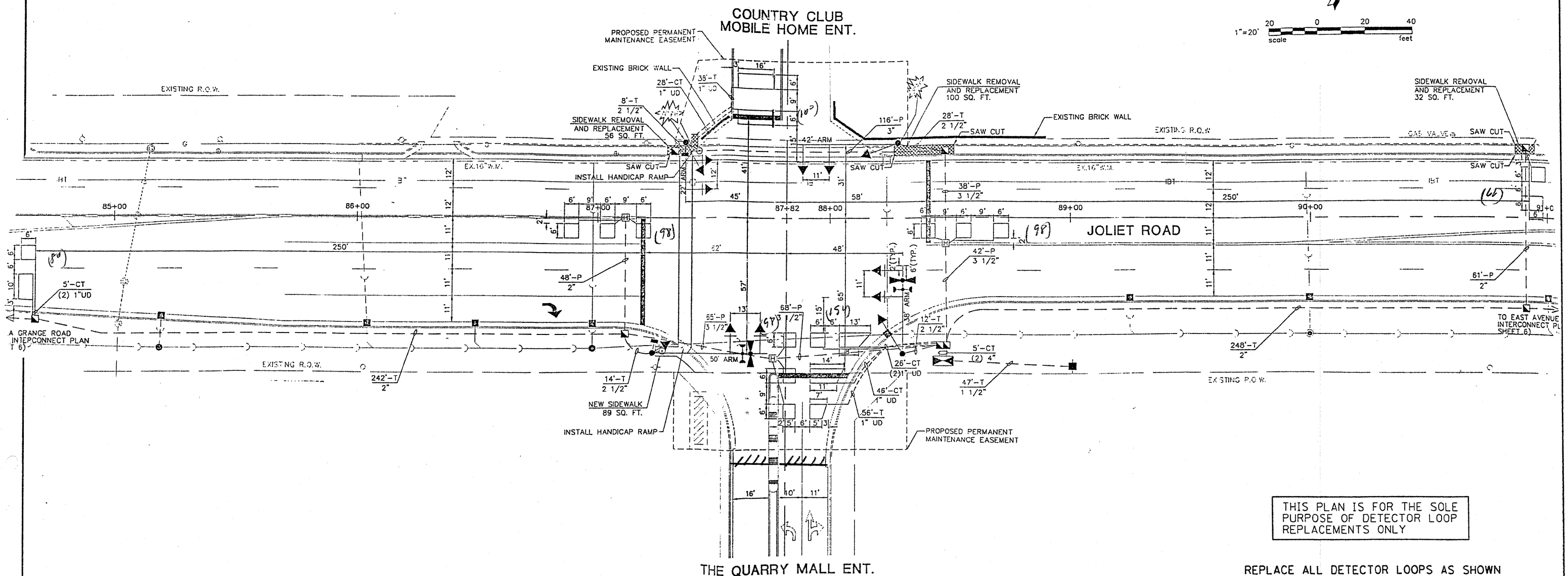
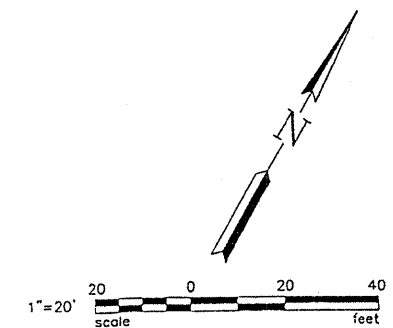
TITLE: **U.S. ROUTES. 12, 20, & 45 (LA GRANGE RD.) AT JOLIET RD. RLR CAMERA INSTALLATION**

DRAWING NO. **3099-102**

* FAW 3562 + FAW 1504

TRAFFIC SIGNAL LEGEND

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



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
86600600	698	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = kanthaphixaybc	DESIGNED - BCK	REVISED -
ct:\pwwork\PIWIDOT\KANTHAPHIXAYBC\d01126	4\trf\traf\legnd_v7.dgn	DRAWN - BCK	REVISED -
	PLOT SCALE = 3/4" = 1' IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 4/3/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

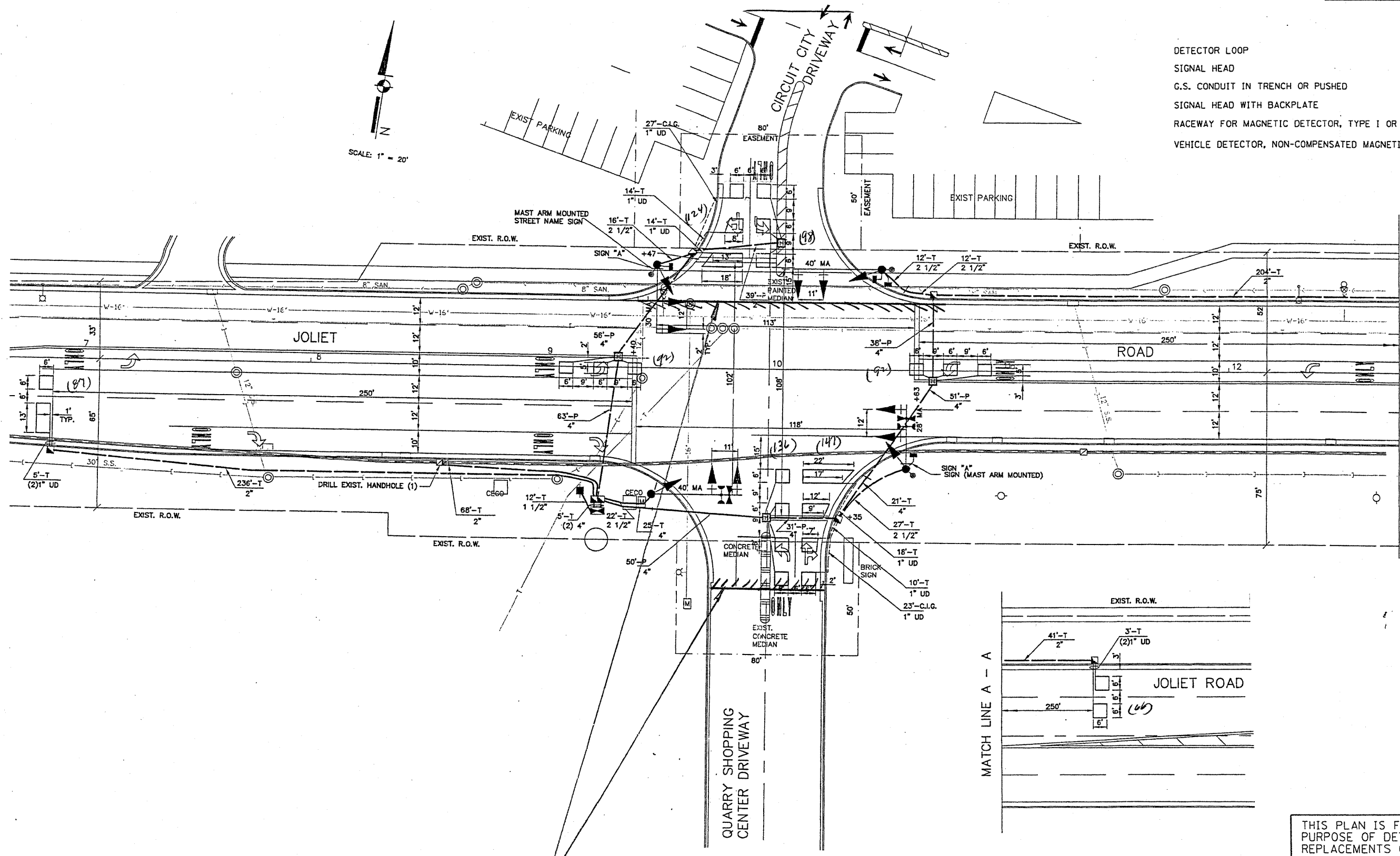
DISTRICT ONE - DETECTOR LOOP REPLACEMENT
JOLIET ROAD @ QUARRY G.C.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2009-131 RS	COOK	51	27
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			60142	

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

TRAFFIC SIGNAL LEGEND

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



MATCH LINE A - A

MATCH LINE A - A

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
86600600	620	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = kenthphixeybc	DESIGNED - BCK	REVISED -
cr:\pwork\p\1007\KANTHAPHIXAYBC\01126	4\traffic\legend.v7.dgn	DRAWN - BCK	REVISED -
	PLOT SCALE = 3/4" = 1" IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 4/3/2009	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

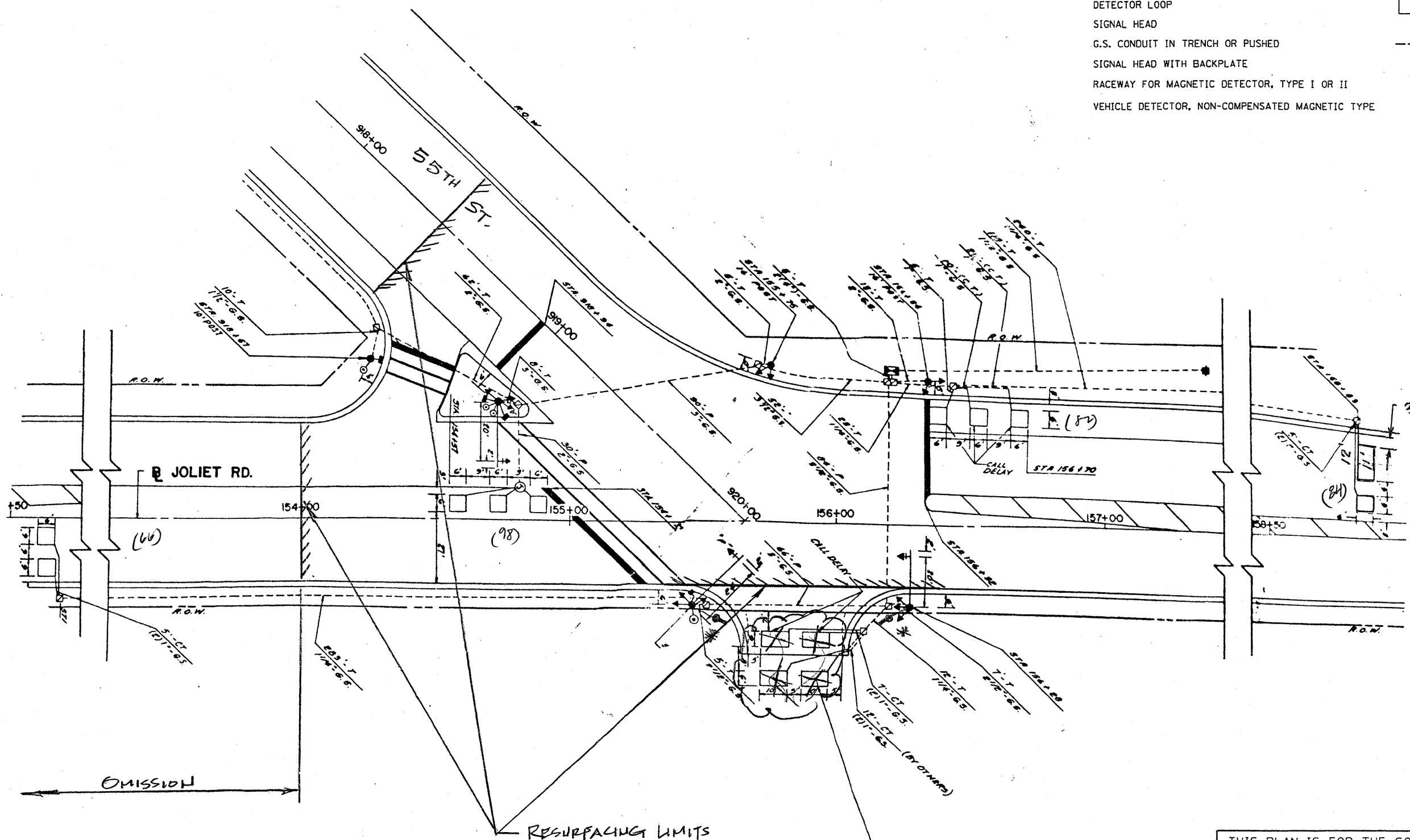
**DISTRICT ONE - DETECTOR LOOP REPLACEMENT
JOLIET ROAD @ QUARRY S.C.**

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* 2009-13) RS		COOK	51	28
CONTRACT NO.			60142	

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
DETECTOR LOOP	□	□
SIGNAL HEAD		△
G.S. CONDUIT IN TRENCH OR PUSHED	---	---
SIGNAL HEAD WITH BACKPLATE		△
RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR II		"E"
VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE		□



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

CODE	QUANTITY	UNIT	ITEM
86600600	333	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = konthaphixaybc	DESIGNED - BCK	REVISED -
ca:\p\work\FWIDOT\KANTHAPHIXAYBC\01126	4\office\legend.v7.dgn	DRAWN - BCK	REVISED -
	PLOT SCALE = 39.9360" / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 4/3/2009	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

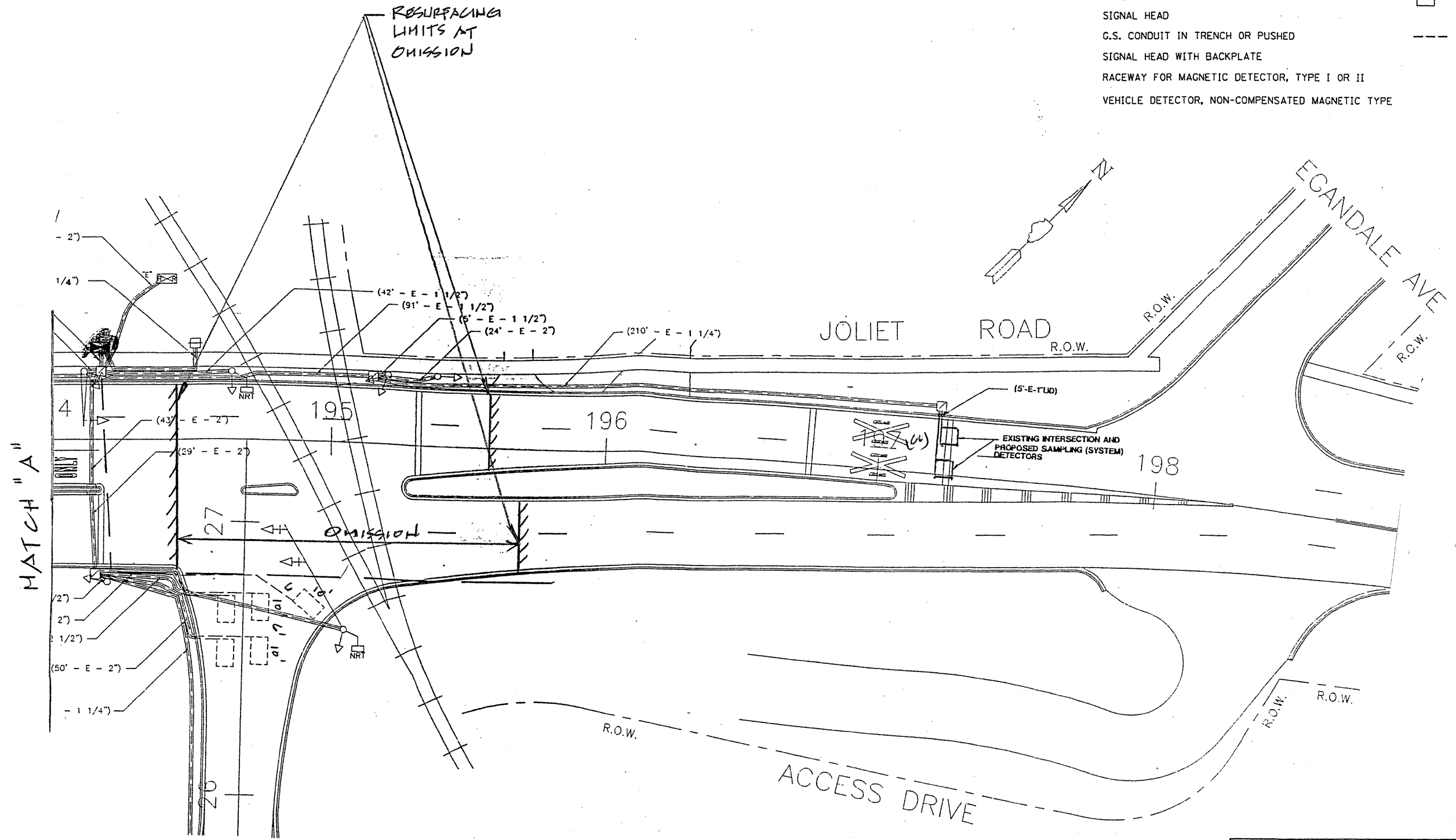
**DISTRICT ONE - DETECTOR LOOP REPLACEMENT
JOLIET ROAD @ 55TH STREET**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* 2009-131 RS		COOK	51	30
CONTRACT NO.			60142	

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

TRAFFIC SIGNAL LEGEND

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



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
86600600	66	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = kenthaphixayba	DESIGNED - BCK	REVISED -
ca:\pwork\p\WIDOT\KANTHAPHIXAYBC\01126	4\tr\traffic.legend.v7.dgn	DRAWN - BCK	REVISED -
	PLOT SCALE = 39.9368' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 4/3/2009	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

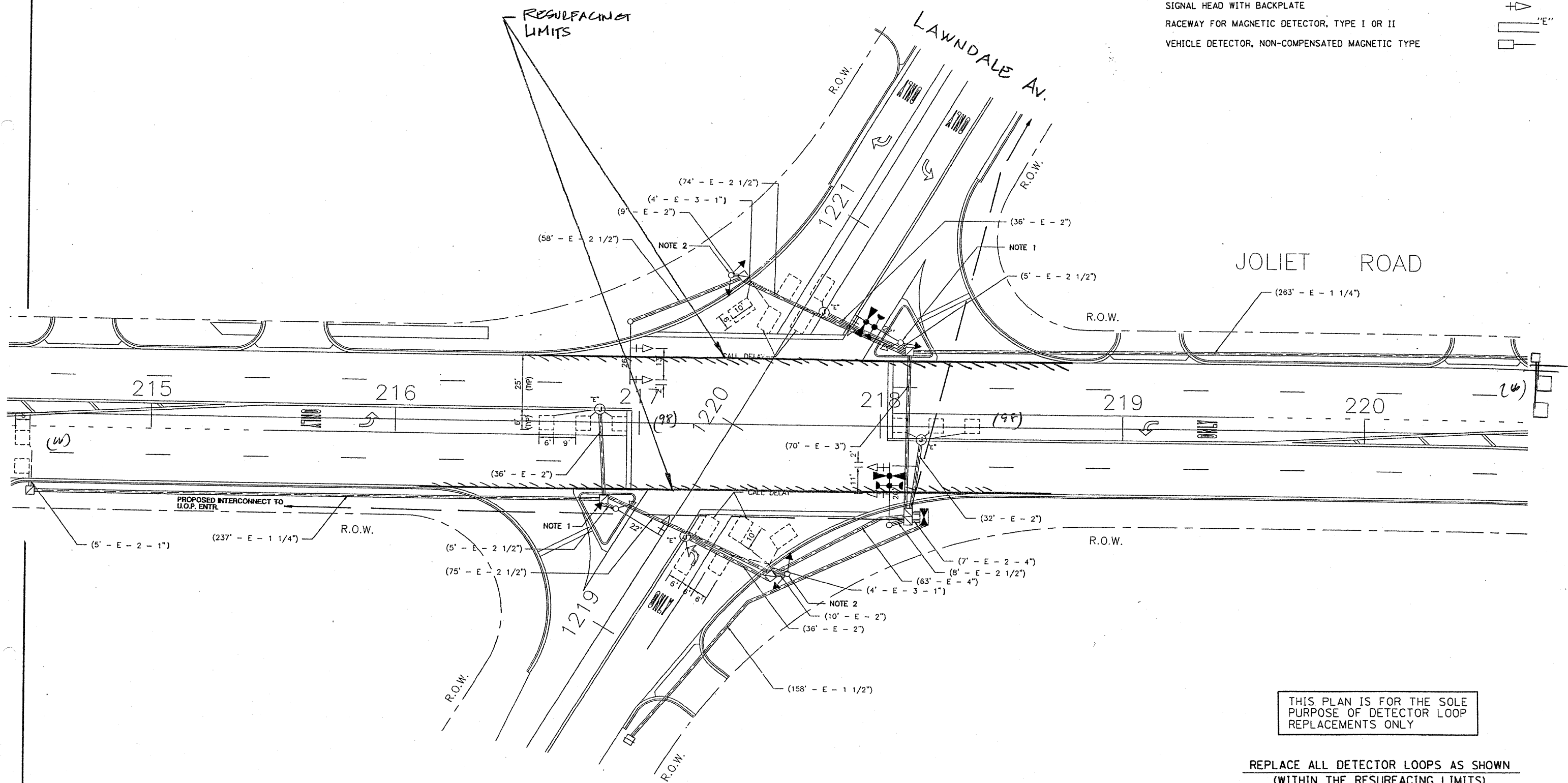
**DISTRICT ONE - DETECTOR LOOP REPLACEMENT
JOLIET ROAD @ ILL. 171 RAMP**

FALL RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2009-131 RS	LOOK	51	31
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			60142	

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

TRAFFIC SIGNAL LEGEND

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



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
86600600	328	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = kanthapixaybc	DESIGNED - BCK	REVISED -
ct:\pwwork\KANTHAPIXAYBC\d01126	ct:\pwwork\KANTHAPIXAYBC\d01126	DRAWN - BCK	REVISED -
	ct:\pwwork\KANTHAPIXAYBC\d01126	CHECKED - DAD	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

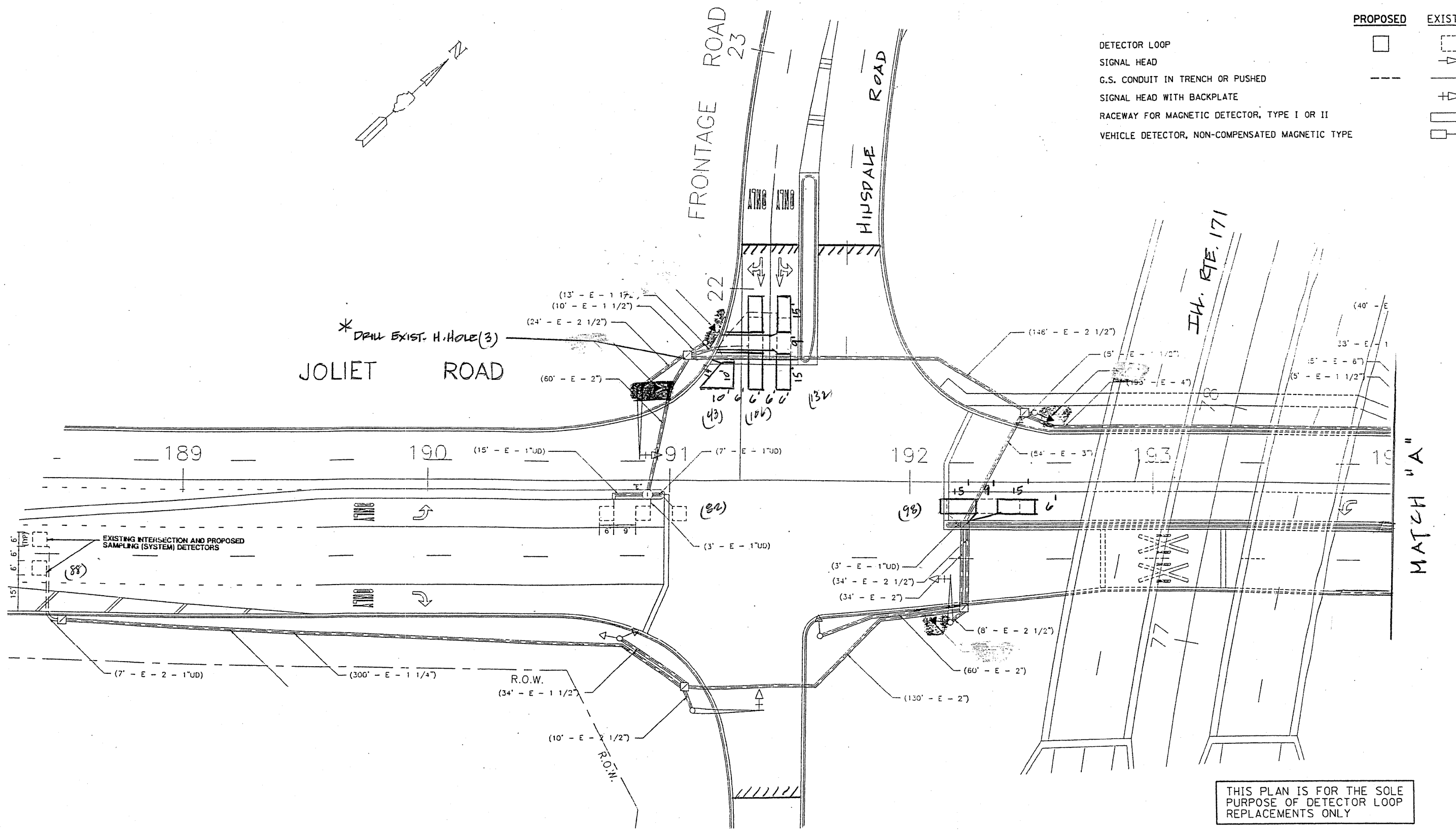
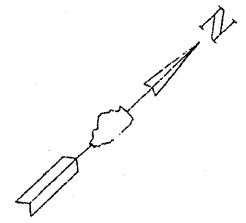
**DISTRICT ONE - DETECTOR LOOP REPLACEMENT
JOLIET ROAD @ LAWDALE AVE.**

FALL RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2009-131 RB	Cook	51	32
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			60742	

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

TRAFFIC SIGNAL LEGEND

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



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

* INCIDENTAL, REFER TO SPEC.

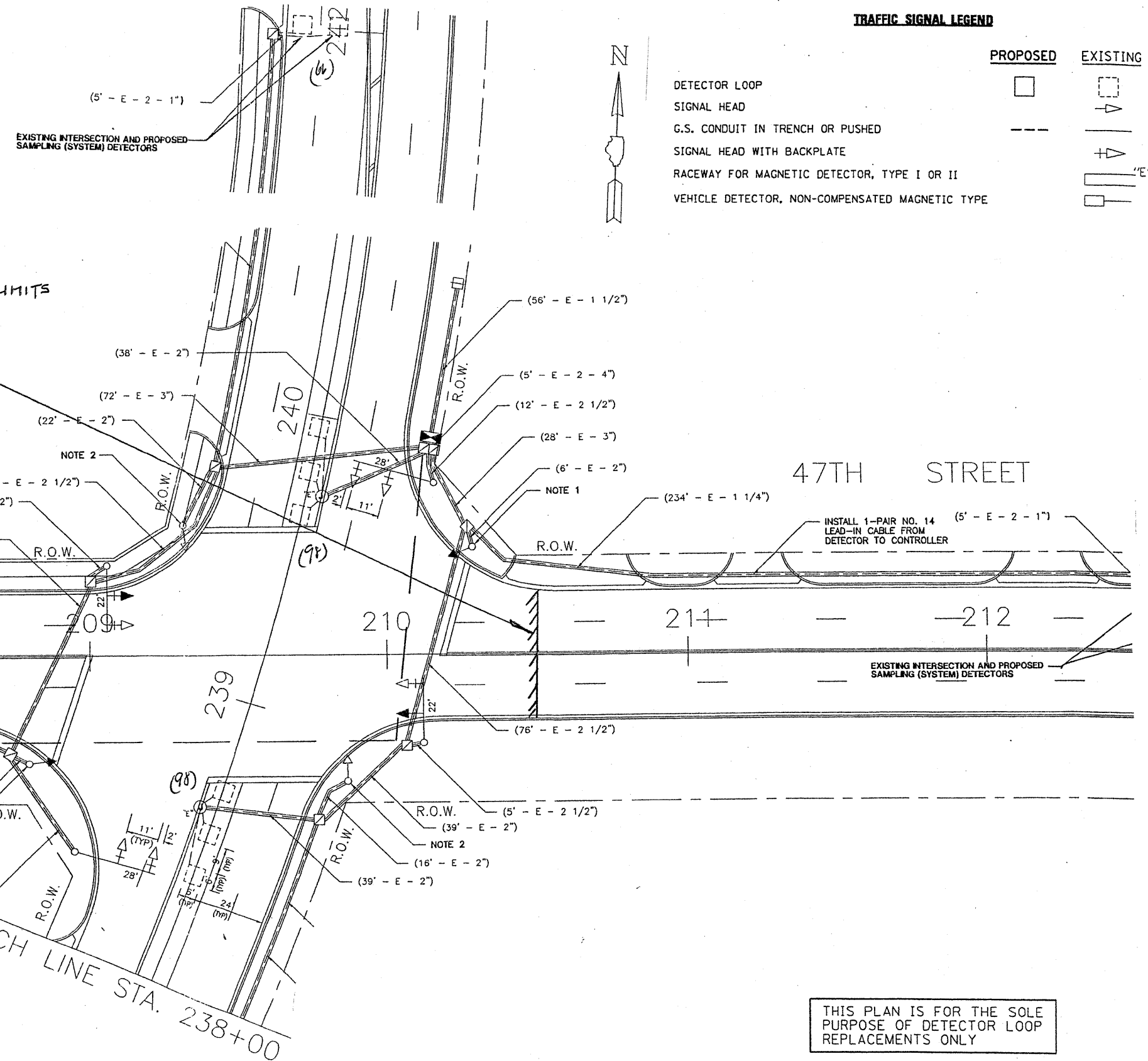
REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM
86600600	549	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = kenthaphixayba	DESIGNED - BCK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE - DETECTOR LOOP REPLACEMENT JOLIET RD. @ HINSDALE ROAD	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwwork\PIW1007\KANTHAPHIXAYBC\d01126	4\traffic\legend_v7.dgn	DRAWN - BCK	REVISED -			* 2009-121 R5	LOOK	51	33	
	PLOT SCALE = 3/4" = 1' IN.	CHECKED - DAD	REVISED -			CONTRACT NO.				
	PLOT DATE = 4/3/2009	DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	60142		

TRAFFIC SIGNAL LEGEND

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



MATCH LINE STA. 238+00

RESURFACING LIMITS

47TH STREET

MATCH LINE STA. 238+00

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
86600600	328	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = konthaphixaybc	DESIGNED - BCK	REVISED -
c:\pwork\pwork\KANTHAPHIXAYBC\d01126	A:\traffic\legend.v7.dgn	DRAWN - BCK	REVISED -
	PLOT SCALE = 3/4" = 1' IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 4/3/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE - DETECTOR LOOP REPLACEMENT
JOLIET ROAD @ 47TH STREET

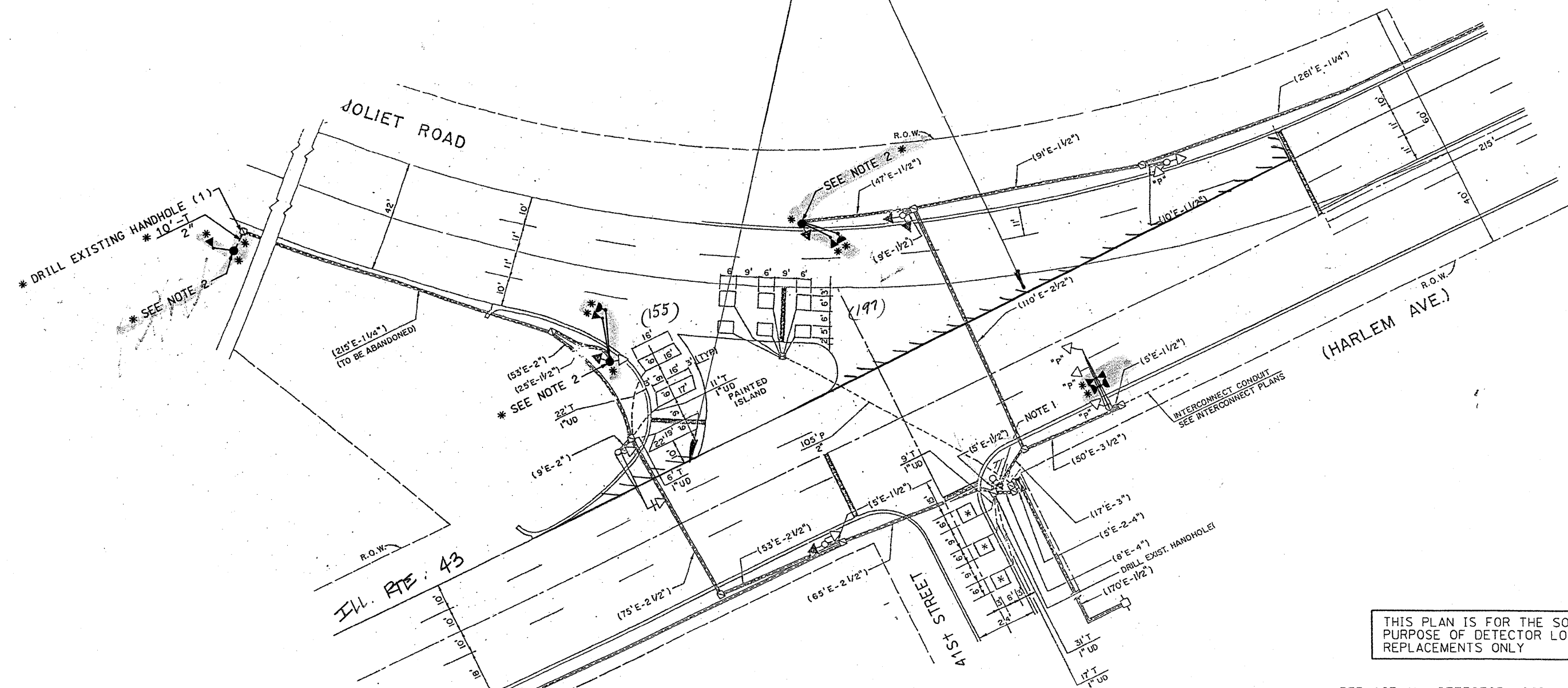
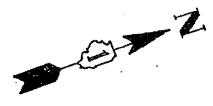
F.A.4 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
* 2009-131 25		COOK	51	34
CONTRACT NO. 60142				

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT

TRAFFIC SIGNAL LEGEND

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

RESURFACING LIMITS



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

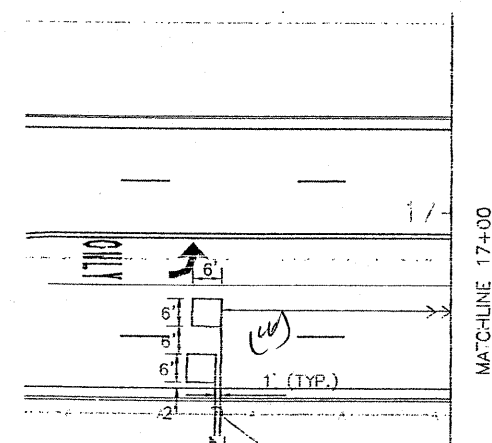
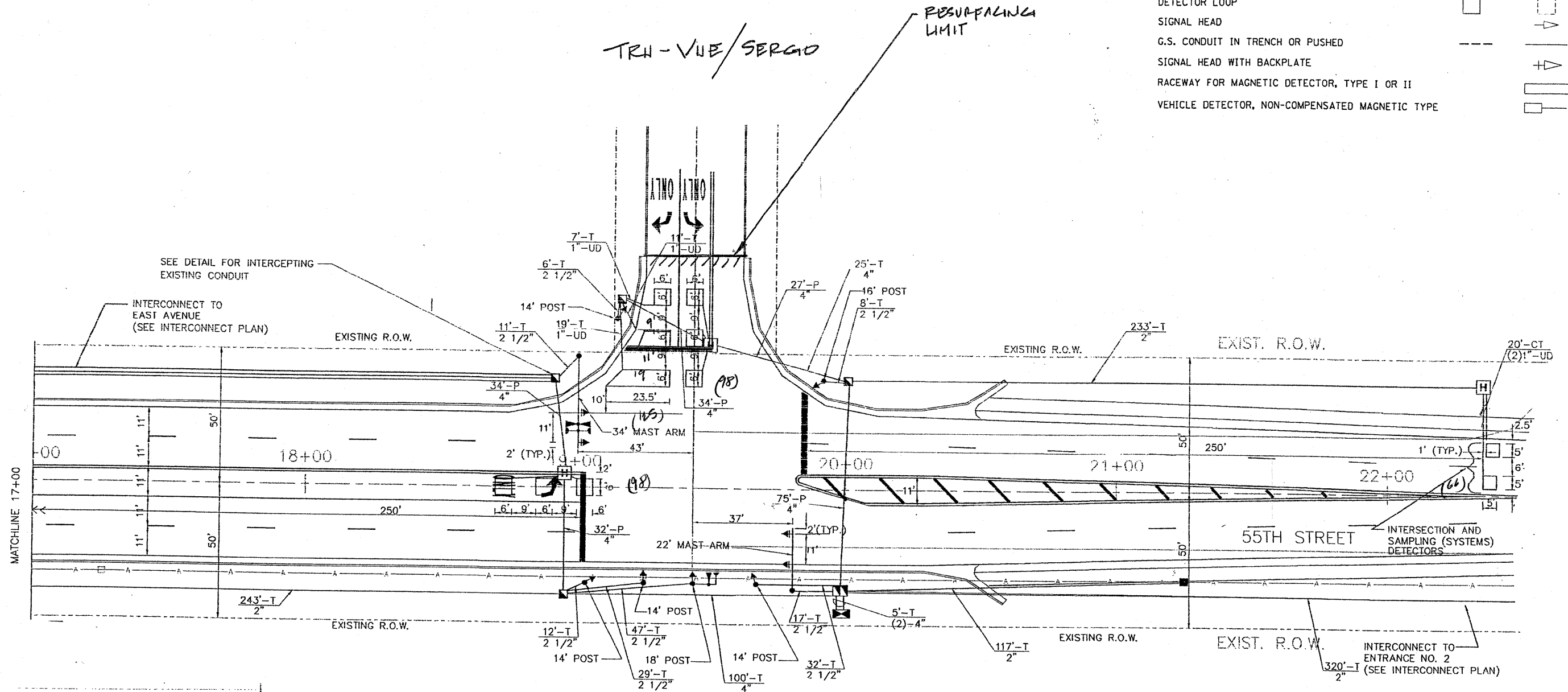
REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM
86600600	352	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = kxanthaphixaybc	DESIGNED - BCK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE - DETECTOR LOOP REPLACEMENT JOLIET ROAD @ ILL. RTE. 43	F. ALL	SECTION	COUNTY	TOTAL	SHEET
ct:\pwork\p\WIDOT\KANTHAPHIXAYBC\081126	4\traffic.legend.v7.dgn	DRAWN - BCK	REVISED -			* 2009-131 RS	LOOK	51	35	
	PLOT SCALE = 39.9360' / IN.	CHECKED - OAD	REVISED -			CONTRACT NO.				
	PLOT DATE = 4/3/2009	DATE -	REVISED -			60142				

TRAFFIC SIGNAL LEGEND

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



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
86600600	453	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = kanthophxoybo	DESIGNED - BCK	REVISED -
c:\p\work\p\WIDOT\KANTHAPHIXAYBCV01126	4\traffic\legend_v7.dgn	DRAWN - BCK	REVISED -
	PLOT SCALE = 3/4" = 1' IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 4/3/2009	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

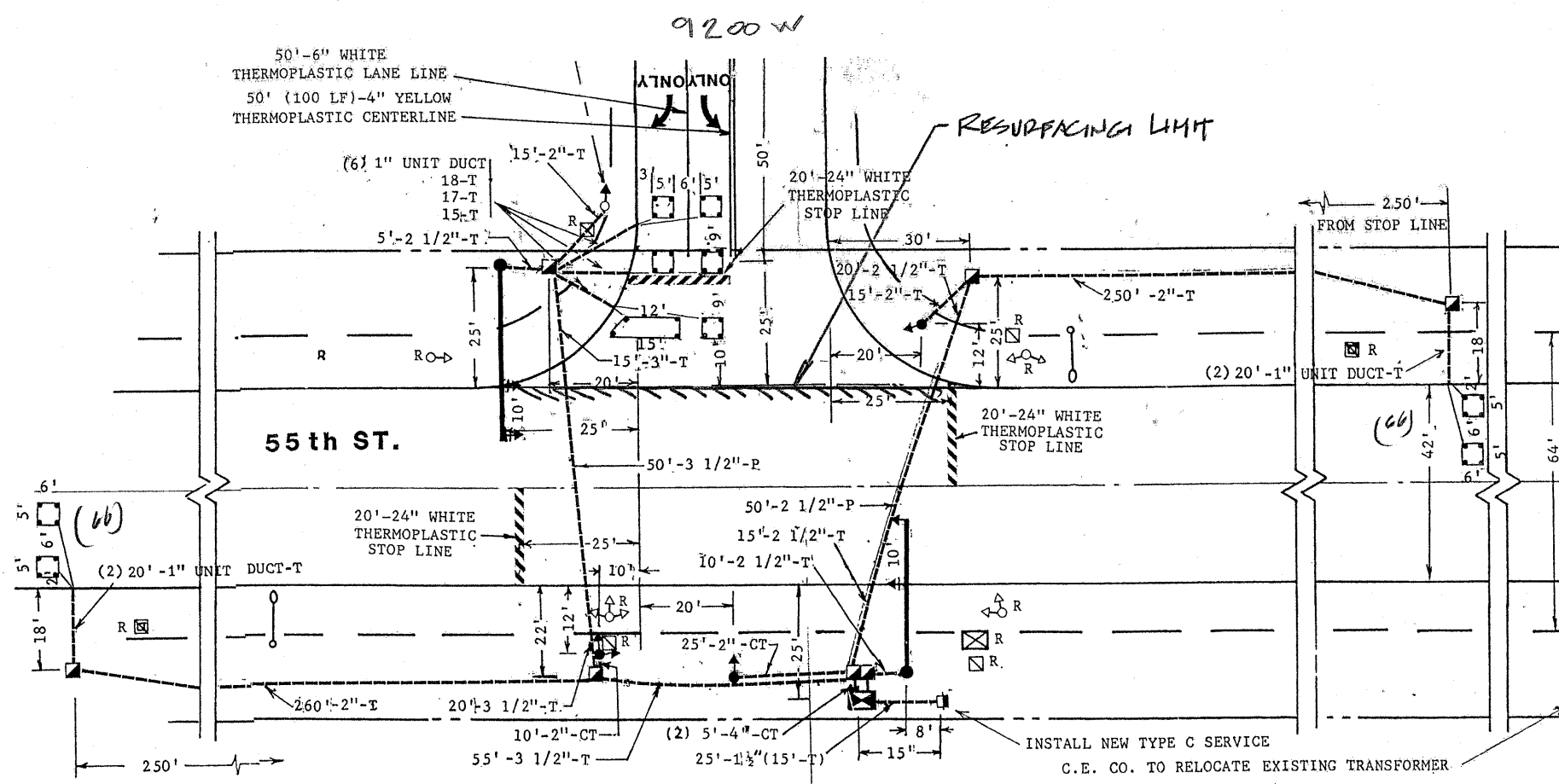
**DISTRICT ONE - DETECTOR LOOP REPLACEMENT
55TH STREET @ SERGO DR.**

F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2009-131RS	Cook	51	37
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT 60142				

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

TRAFFIC SIGNAL LEGEND

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



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

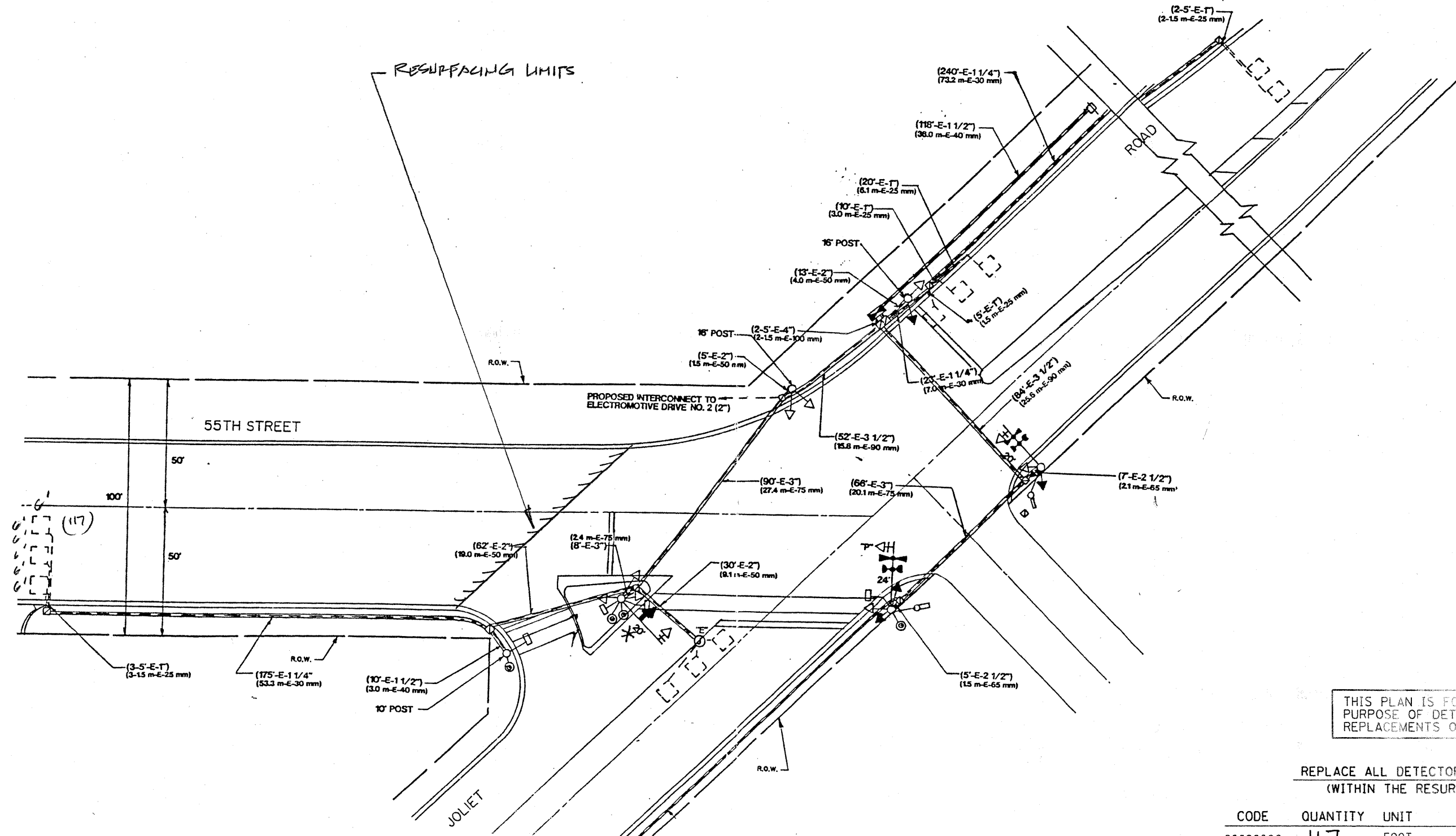
REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

CODE	QUANTITY	UNIT	ITEM
86600600	132	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = kanthaphixaybo	DESIGNED - BCK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE - DETECTOR LOOP REPLACEMENT 55TH STREET @ 9200 W	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\VPWIDOT\KANTHAPHIXAYBC\d01126	4\tr\offic.legend_v7.dgn	DRAWN - BCK	REVISED -			* 2009-131RS	COOK	51	38	
PLOT SCALE = 39.9368' / IN.	CHECKED - DAD	REVISED -	REVISED -			CONTRACT NO.				
PLOT DATE = 4/3/2009	DATE	REVISED -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT 60142				

TRAFFIC SIGNAL LEGEND

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

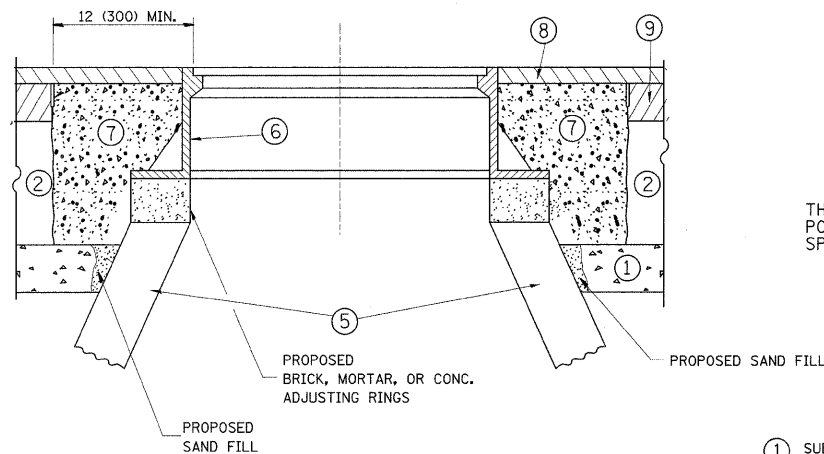
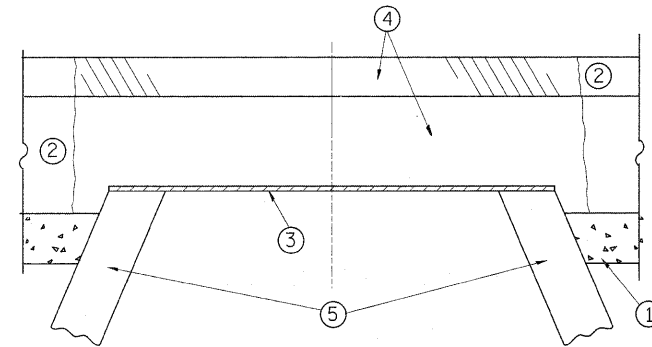


THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

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

CODE	QUANTITY	UNIT	ITEM
86600600	117	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME =	USER NAME = kanthaphixaybc	DESIGNED - BCK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE - DETECTOR LOOP REPLACEMENT 55TH STREET @ JOLIET ROAD	SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.	F.A.U. RTE. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
es:\pw\work\PIWIDOT\KANTHAPHIXAYBC\d01126	4\tr of fic. legend_v7.dgn	DRAWN - BCK	REVISED -			2009-13125	COOK	51	39			
	PLOT SCALE = 39.9368 / IN.	CHECKED - DAD	REVISED -			CONTRACT NO.						
	PLOT DATE = 4/3/2009	DATE	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT 60142						



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 SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

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 SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- 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: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

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.

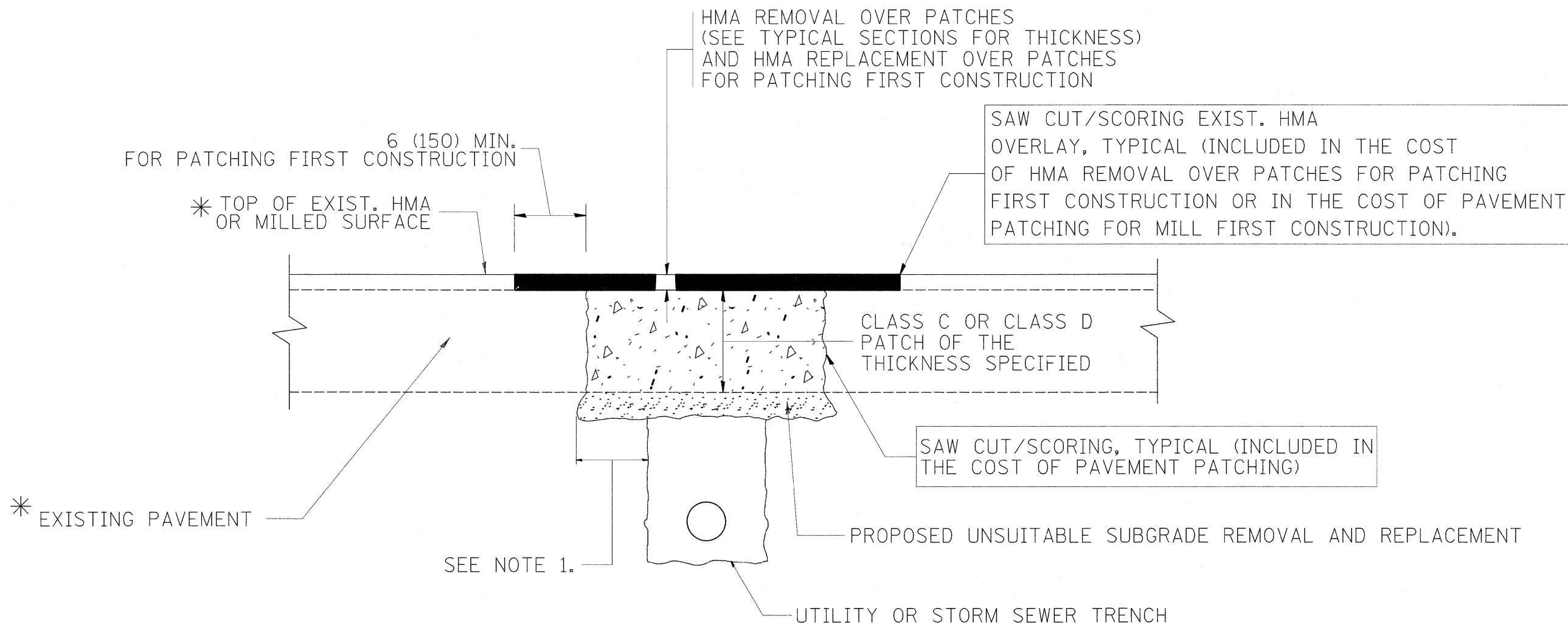
WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

• FAU 3562 & FAU 1504

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = abebawa	DESIGNED - R. SHAH	REVISED - R. SHAH 03-10-95	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw_work\pwi_dot\abebawa\0157545\Dist	td.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	2009-131 RS	COOK	51	40
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - R. WIEDEMAN 05-14-04					BD600-03 (BD-8)		CONTRACT NO. 60142	
	PLOT DATE = 11/20/2009	DATE - 10-25-94	REVISED - R. BORO 01-01-07					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

• FAU 3562 & FAU 1504
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = abebawa	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw\work\p1dot\abebawa\d0157545\01st	td.dgn	DRAWN -	REVISED - R. BORO 01-01-07			*	2009-131 RS	COOK	51	41
PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED - R. BORO 09-04-07			BD400-04 (BD-22)		CONTRACT NO. 60142		
PLOT DATE = 11/20/2009		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)

1/4" (5) * * *

18" (450) MAX.

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.

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.

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.

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

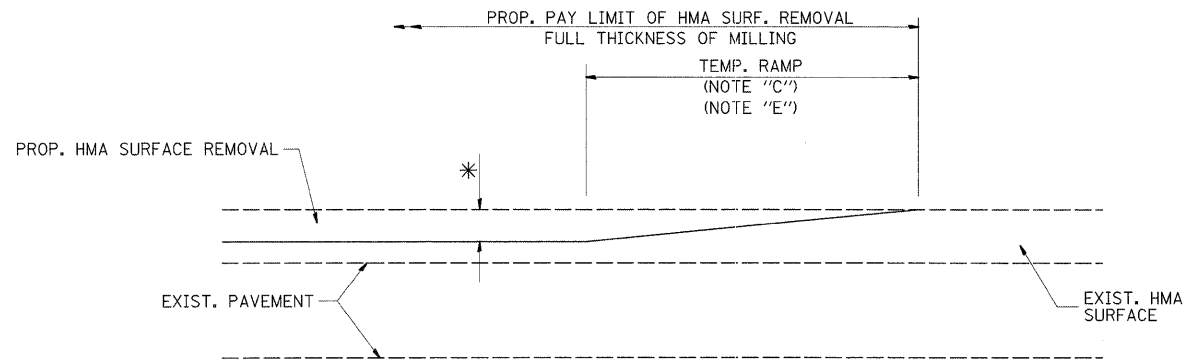
BASIS OF PAYMENT:

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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

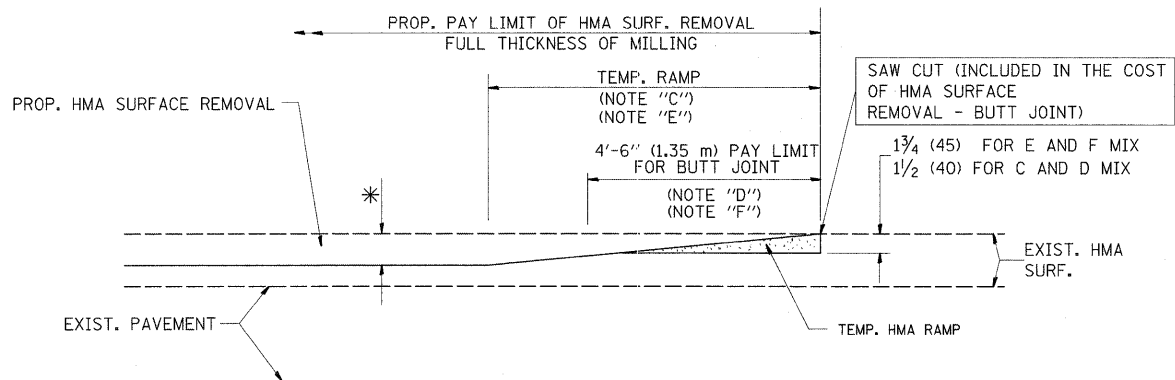
• FAU 3562 & FAU 1504
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = abebawa	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.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
of:\pwwork\VP\WIDOT\ABEBAWA\0157545\0157545.dwg	Plot Scale = 50.0000' / 1" IN.	DRAWN -	REVISED - A. ABBAS 03-21-97		•	2009-131 RS	COOK	51	42			
	PLOT DATE = 12/17/2009	CHECKED -	REVISED - M. GOMEZ 01-22-01		BD600-06 (BD-24)			CONTRACT NO. 60142				
		DATE - 03-11-94	REVISED - R. BORO 12-15-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

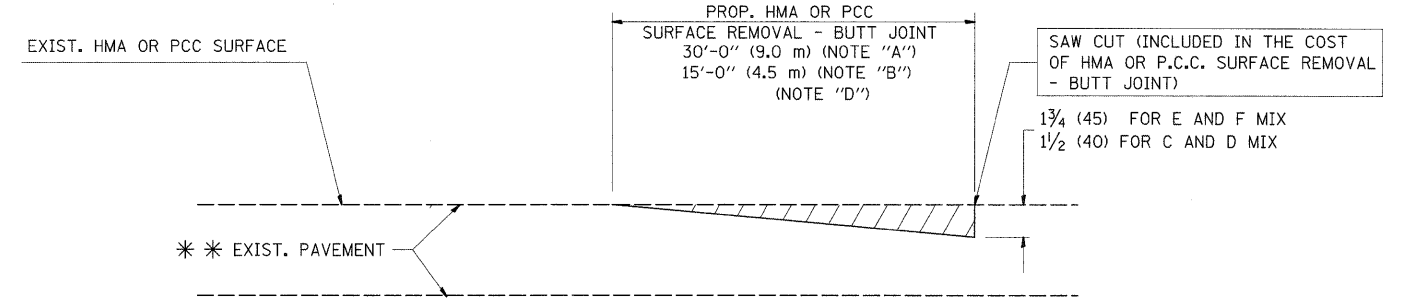
OPTION 1



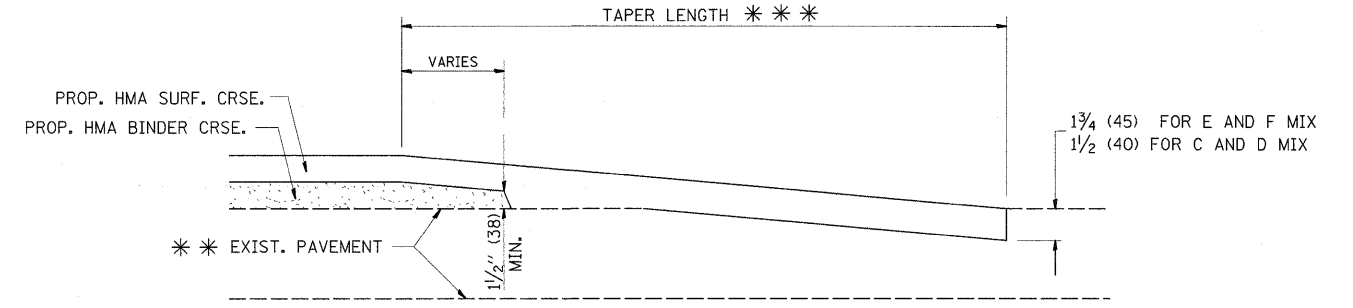
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

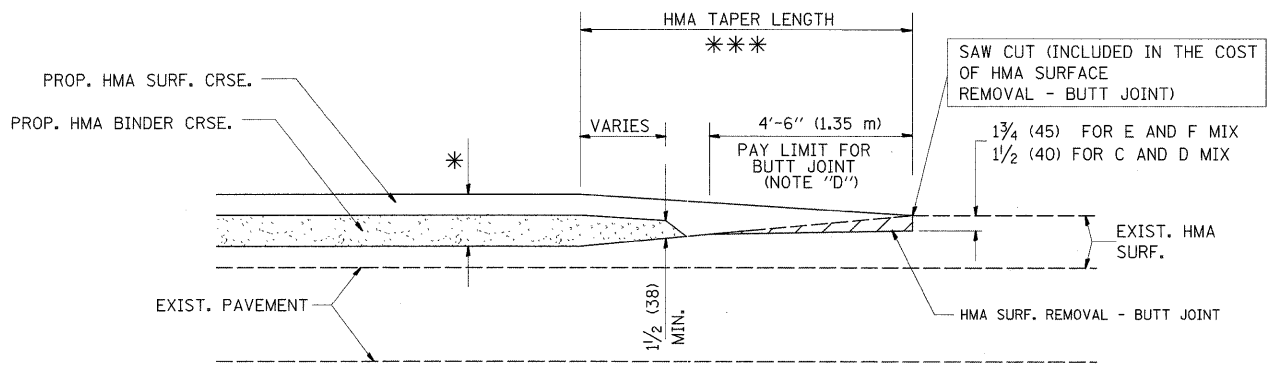
NOTES

- 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".

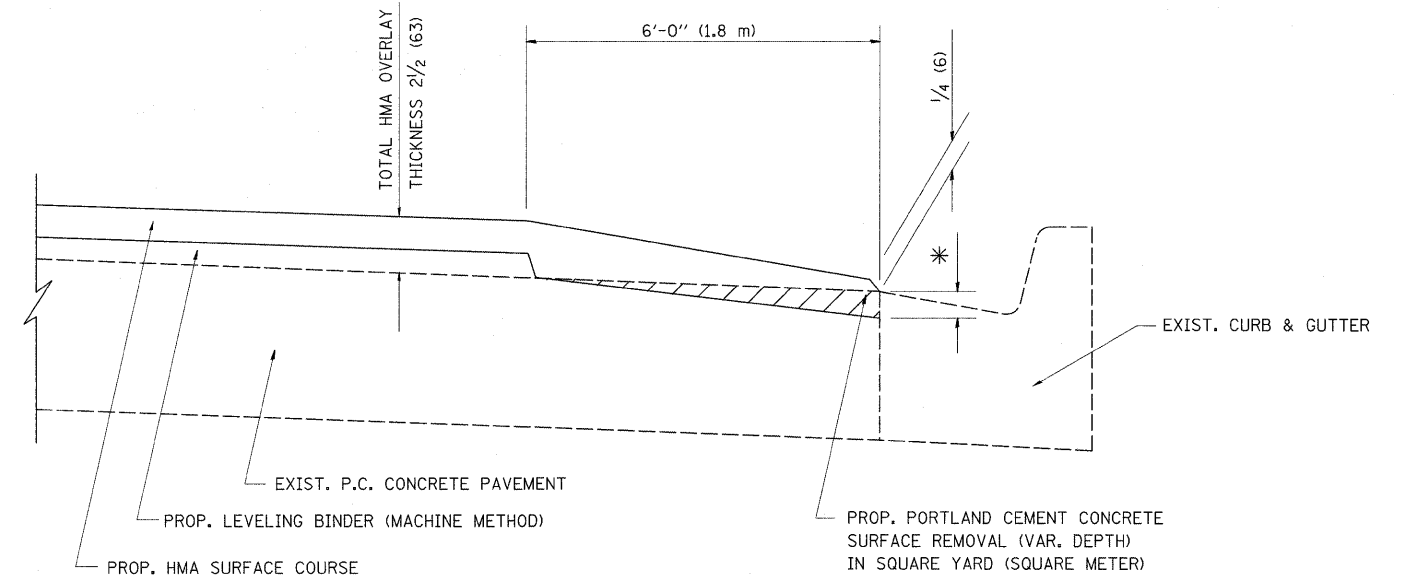
• FAU 3562 & FAU 1504
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

FILE NAME =	USER NAME = abebawa	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT AND HMA TAPER DETAILS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
et:\pw_work\p1dot\abebawa\d0157545\01st	td.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97		•	2009-131 RS	COOK	51	43			
PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISOR - M. GOMEZ 04-06-01	SCALE: NONE		SHEET NO. 1 OF 1 SHEETS			STA.	TO STA.	BD400-05 BD32	CONTRACT NO. 60142	
PLOT DATE = 11/20/2009	DATE - 06-13-90	REVISED - R. BORO 01-01-07	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT									



HMA TAPER AT
EDGE OF P.C.C PAVEMENT

HMA SURFACE	THICKNESS	LEVELING BINDER THICKNESS	* MILLING AT GUTTER FLAG
C OR D	1 1/2 (38)	1 (25)	1/4 (33)
F	1 3/4 (44)	3/4 (19)	1/2 (38)

• FAU 3562 & FAU 1504
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

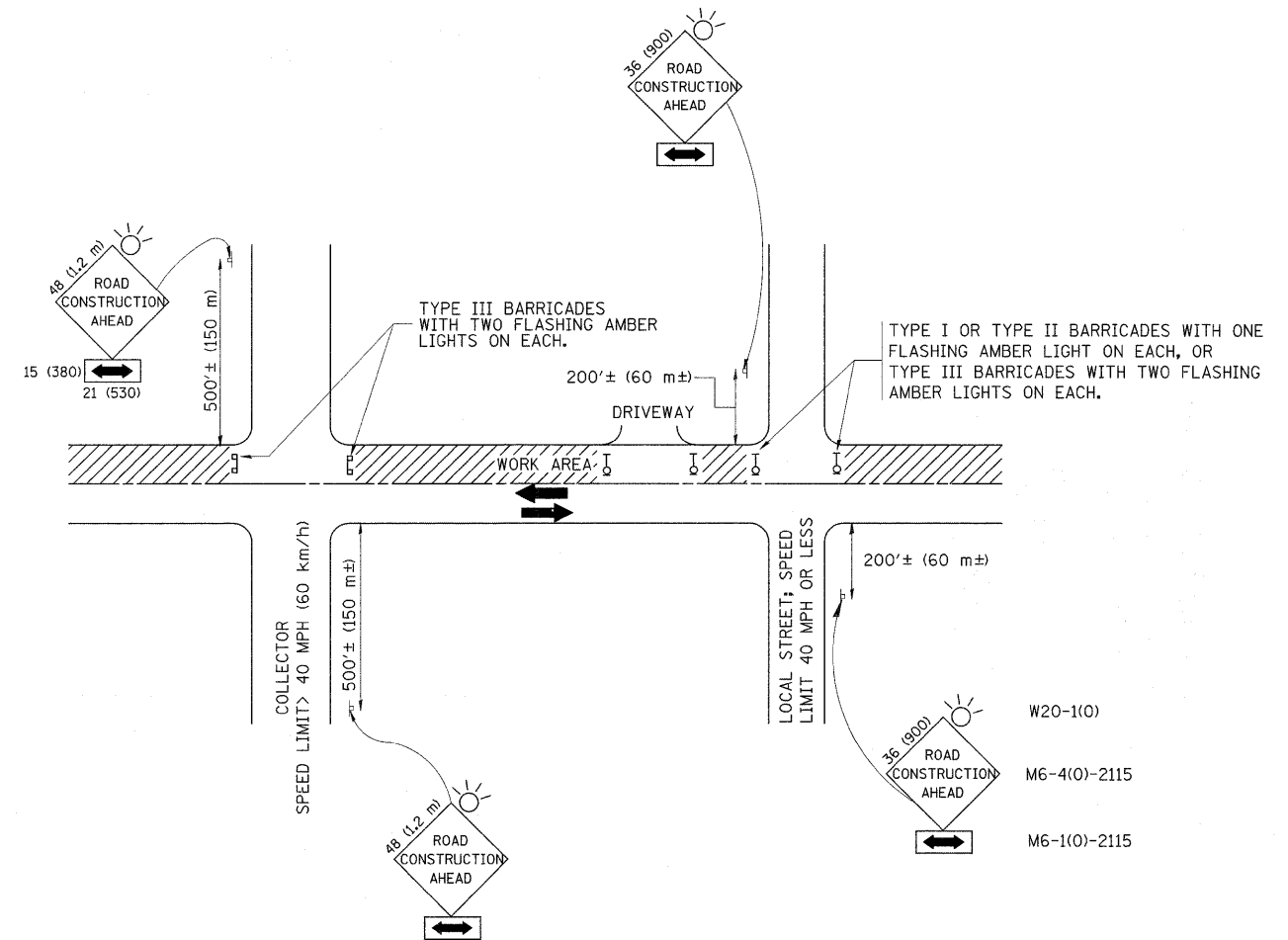
FILE NAME =	USER NAME = ababawa	DESIGNED - R. SHAH	REVISED - R. SHAH 10-25-94
ct:\pwwork\pwwork\ababawa\d0157545\0157545.dgn		DRAWN - JIS	REVISED - A. ABBAS 05-05-99
	PLOT SCALE = 50.0000' / IN.	CHECKED - A. ABBAS	REVISED - E. GOMEZ 12-21-00
	PLOT DATE = 11/20/2009	DATE - 09-10-94	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HMA TAPER AT
EDGE OF P.C.C. PAVEMENT

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2009-131 RS	COOK	51	44
BD400-06 (BD33)		CONTRACT NO. 60142		
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.

* FAU 3562 & FAU 1504

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

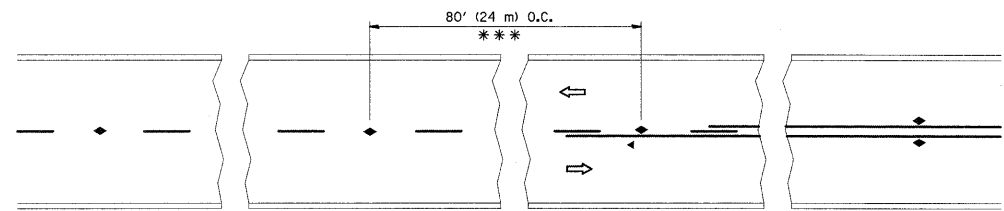
FILE NAME =	USER NAME = abebawa	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
et:\pw_work\p1dot\abebawa\d0157545\01st	td.dgn	DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 11/20/2009	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

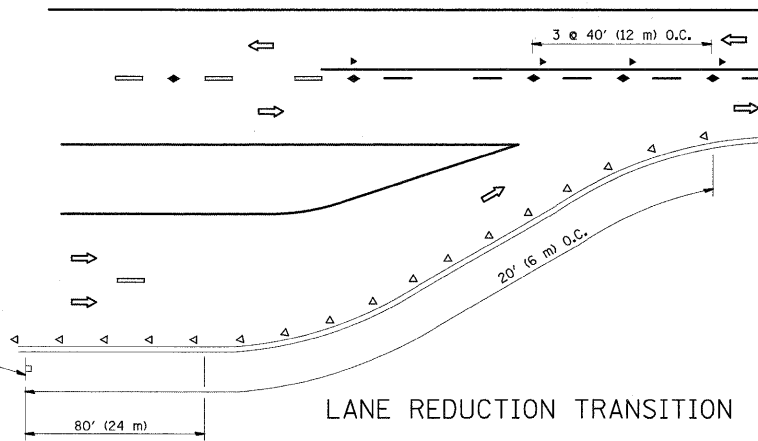
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2009-131 RS	COOK	51	45
TC-10			CONTRACT NO. 60142	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

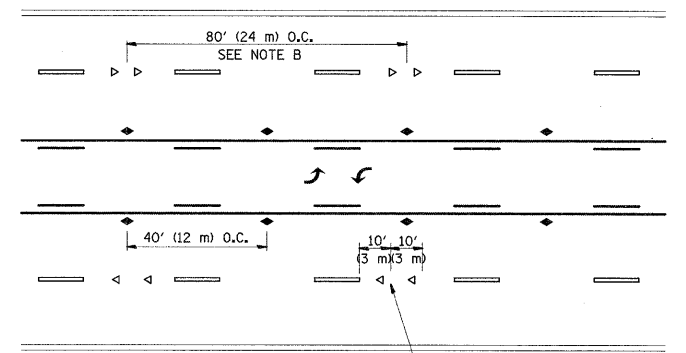


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

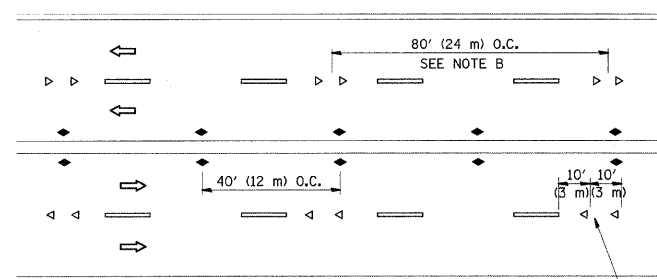
TWO-LANE/TWO-WAY



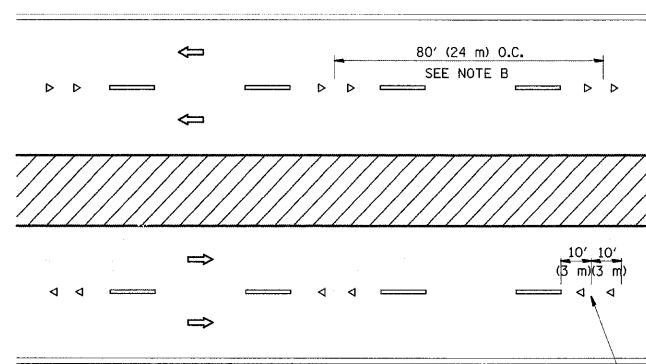
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

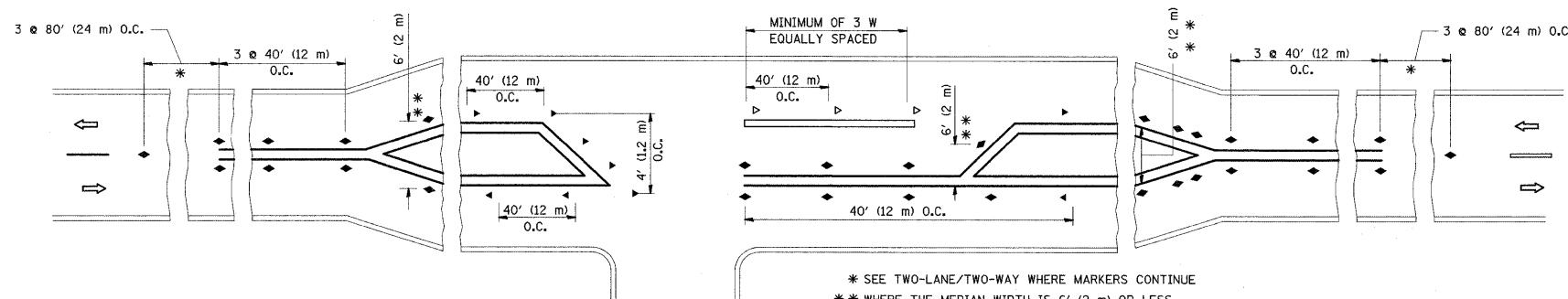
1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE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

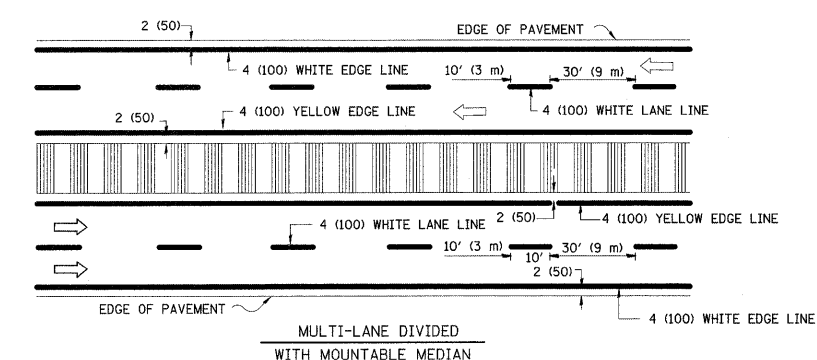
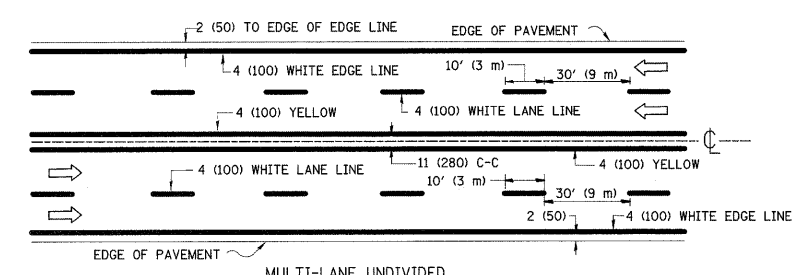
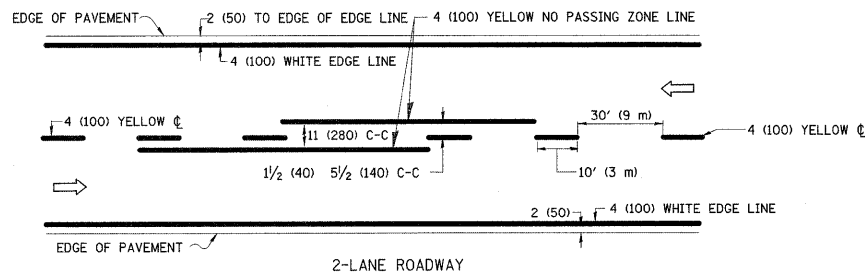


LEFT TURN

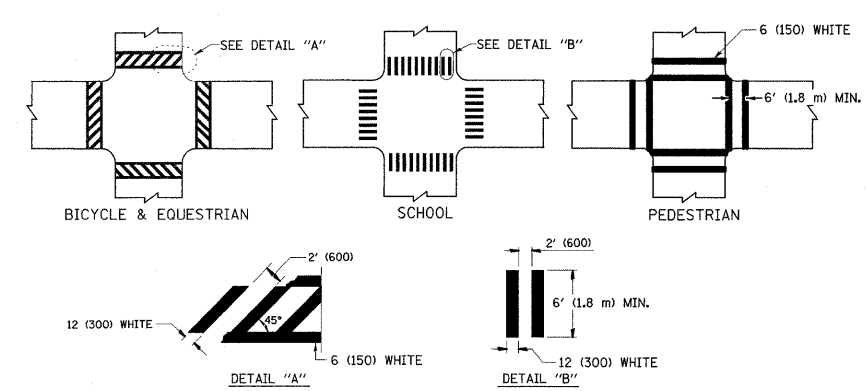


• FAU 3562 & FAU 1504
All dimensions are in inches (millimeters) unless otherwise shown.

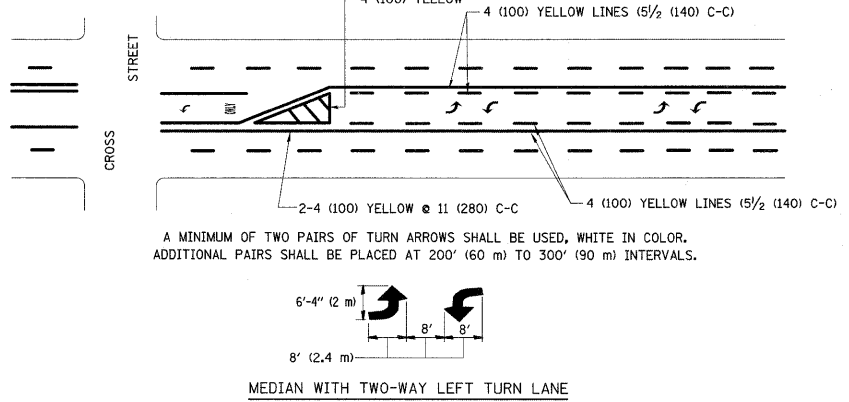
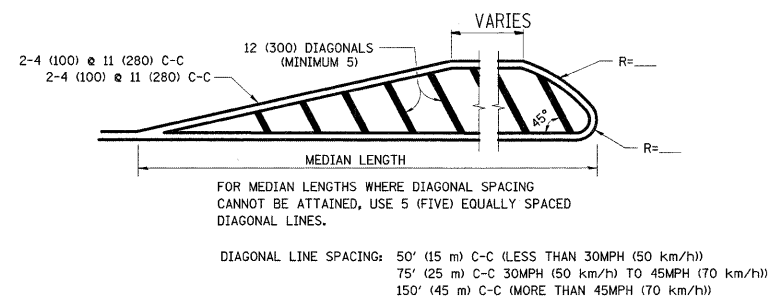
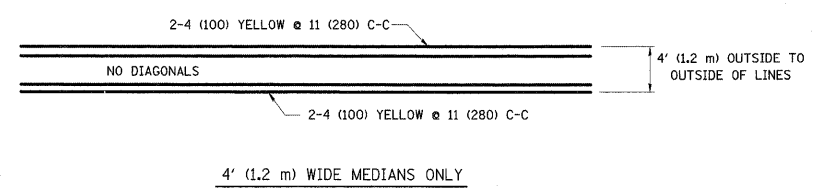
FILE NAME = c:\pw_work\p\d01\ebobawa\d2157545\d1st	USER NAME = abebawa	DESIGNED - DRAWN -	REVISED - T. RAMMACHER 09-19-94 REVISED - T. RAMMACHER 03-12-99 REVISED - T. RAMMACHER 01-06-00 REVISED - C. JUCIUS 09-09-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 50,0000 / IN.	CHECKED -	DATE -	SCALE: NONE		SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2009-131 RS	COOK	51	46	
PLOT DATE = 11/20/2009							TC-11		CONTRACT NO. 60142			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT												



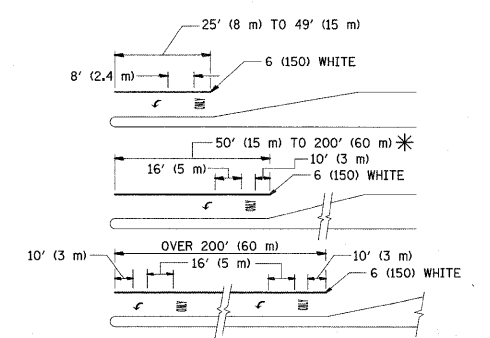
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

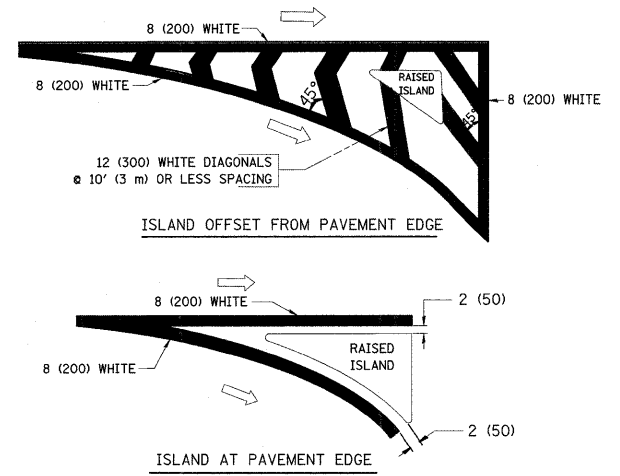


TYPICAL PAINTED MEDIAN MARKING



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



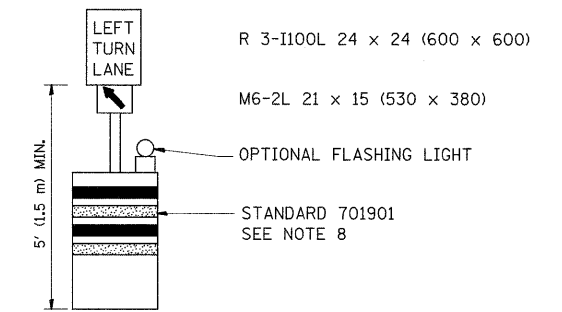
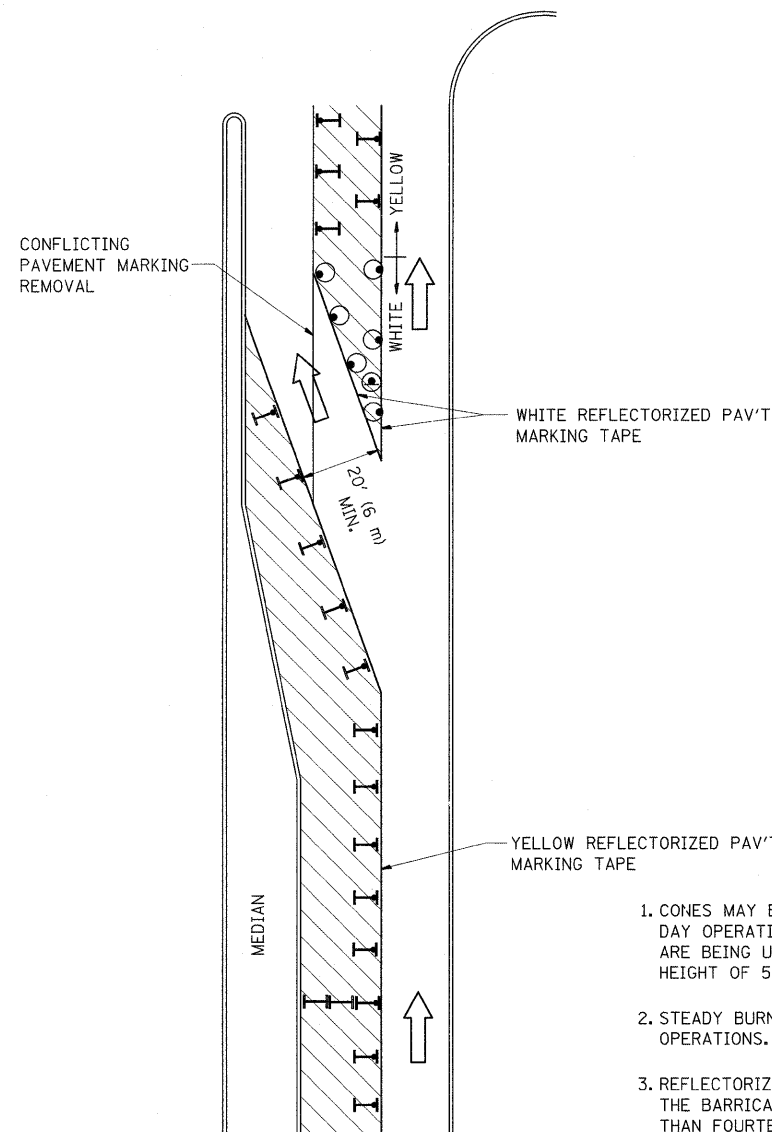
TYPICAL ISLAND MARKING

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

• FAU 3562 & FAU 1504



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.

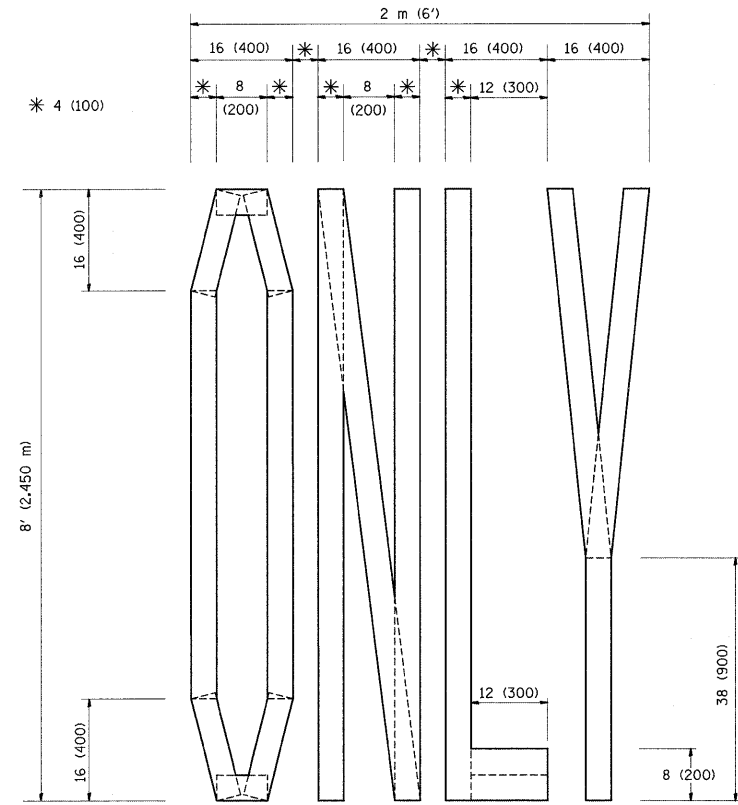
All dimensions are in inches (millimeters) unless otherwise shown.

LEGEND

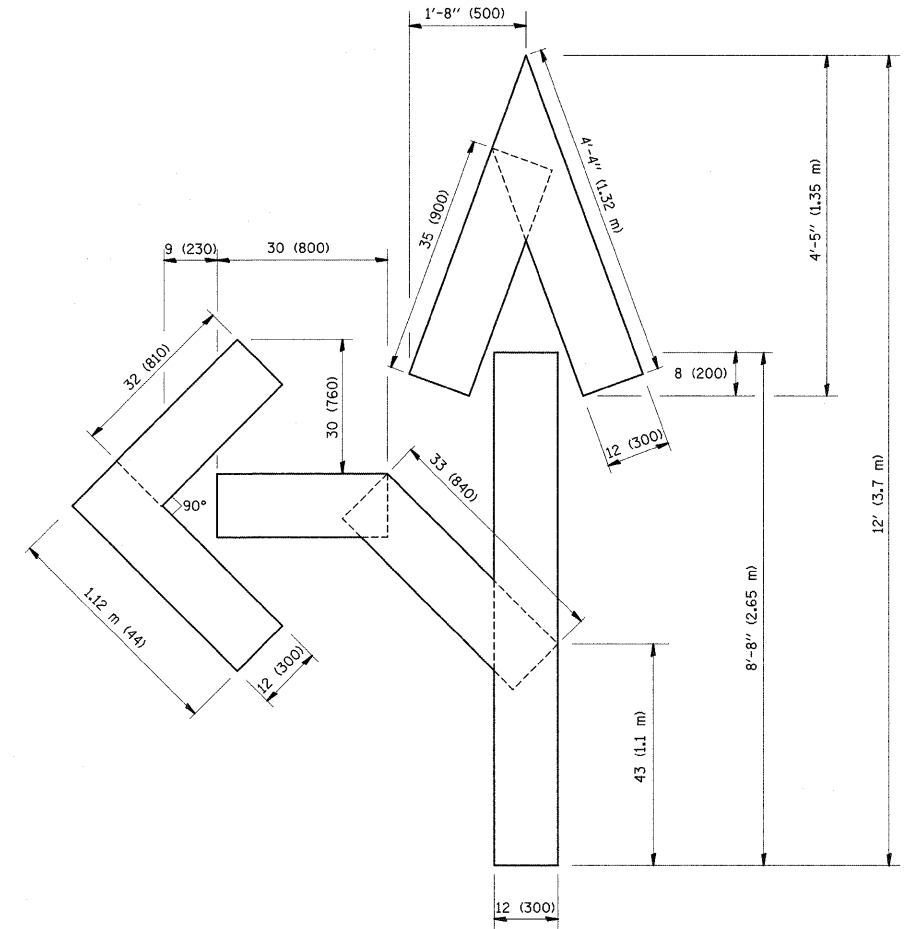
- WORK AREA
- LANE OPEN TO TRAFFIC
- TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

• FAU 3562 & FAU 1504

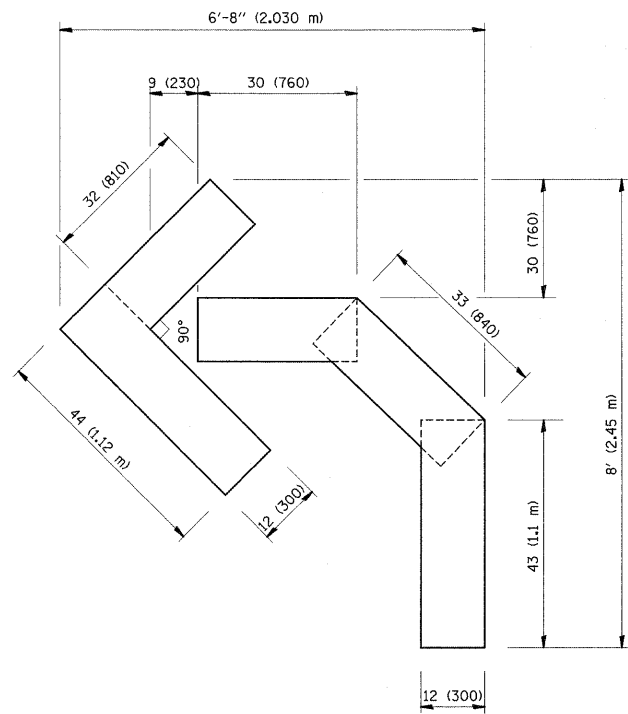
FILE NAME =	USER NAME = abebawa	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
et:\pw_work\p\idat\abebawa\d0157545\01st	td.dgn	REVISED - A. HOUSEH 11-07-95	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2009-131 RS	COOK	51	48	
		REVISED - A. HOUSEH 10-12-96	REVISED -						TC-14				
		REVISED - T. RAMMACHER 01-06-00	REVISED -						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)

• FAU 3562 & FAU 1504
 All dimensions are in inches (millimeters)
 unless otherwise shown.

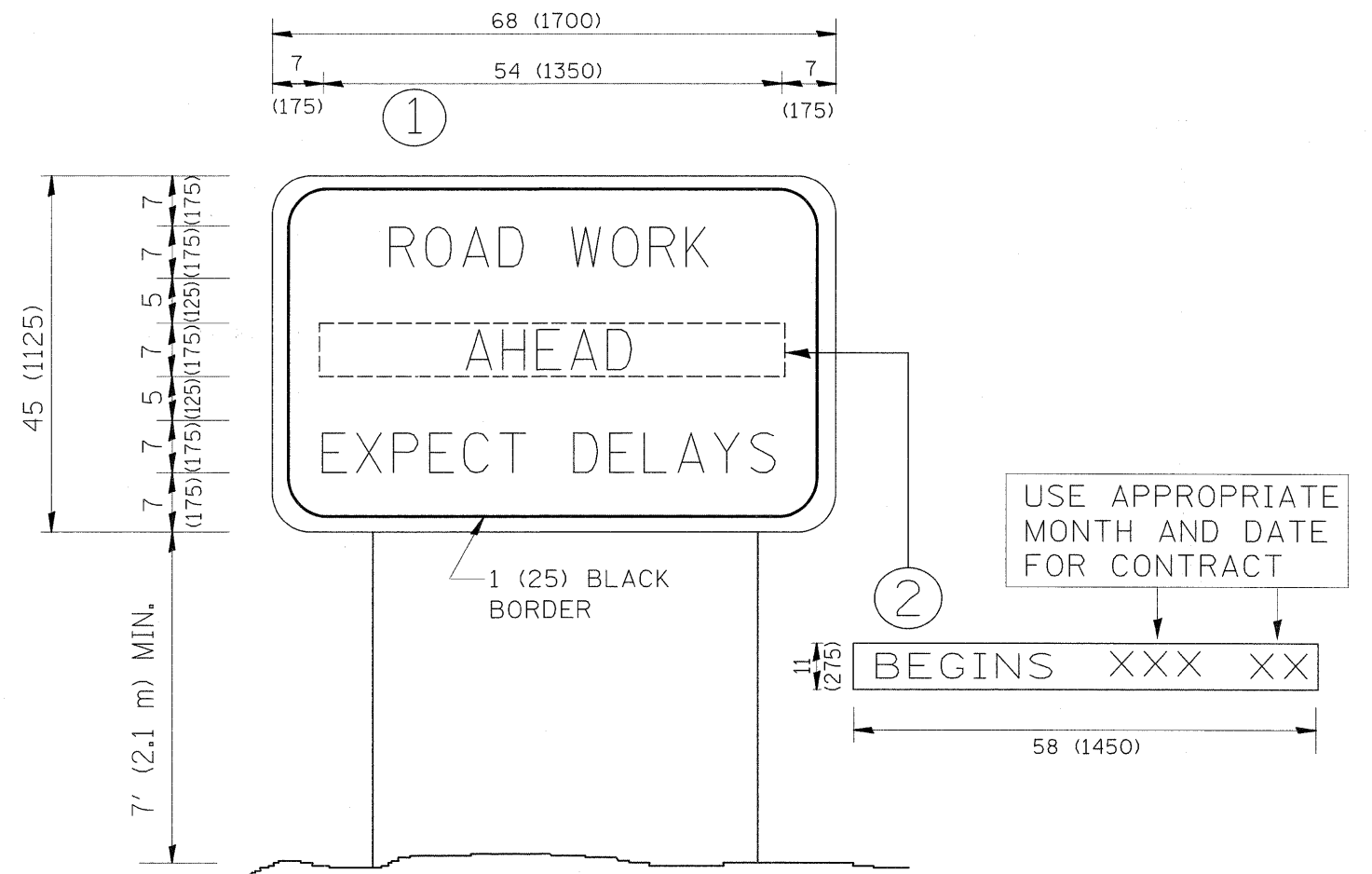
FILE NAME =	USER NAME = abebawa	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
es\pwwork\pwwidat\abebawa\c0157545\dtst	td.dgn	DRAWN -	REVISED -T. RAMMACHER 11-04-97
FLOT SCALE = 50.0000' / IN.	CHECKED -	REVISIED -T. RAMMACHER 03-02-98	
FLOT DATE = 11/20/2009	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00	

**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.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2009-131 RS	COOK	51	49
TC-16			CONTRACT NO. 60142	
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.

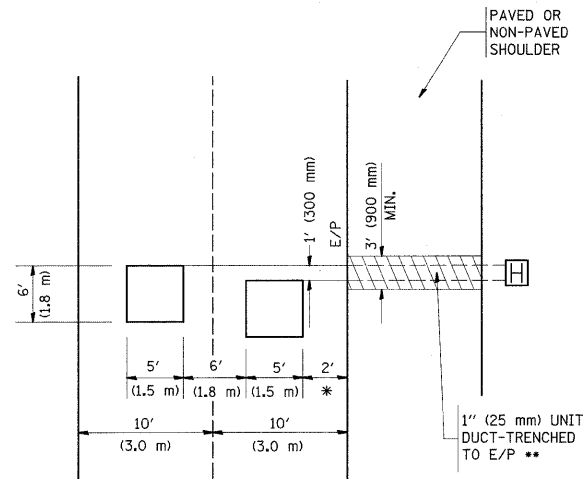
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

• FAU 3562 & FAU 1504

FILE NAME =	USER NAME = abebawa	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pw_work\p\dot\abebawa\d0157545\Dist	td.dgn	DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	•	2009-131 RS	COOK	51	50
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99					TC-22		CONTRACT NO. 60142			
	PLOT DATE = 11/20/2009	DATE -	REVISED - C. JUCIUS 01-31-07		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.

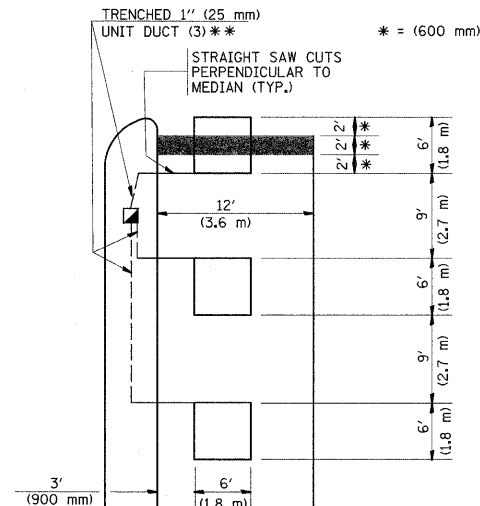


* = (600 mm)

** 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.

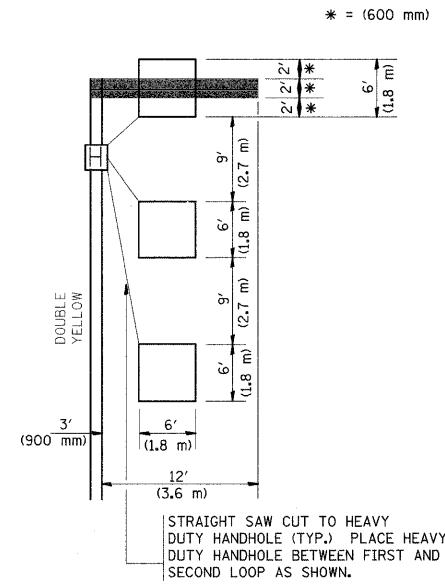


* = (600 mm)

** 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)

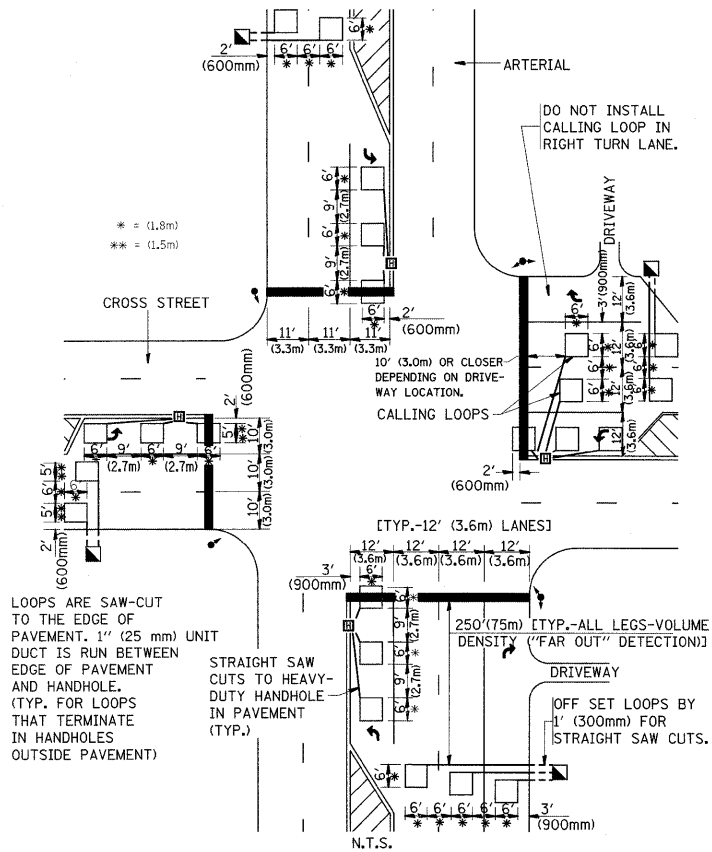
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

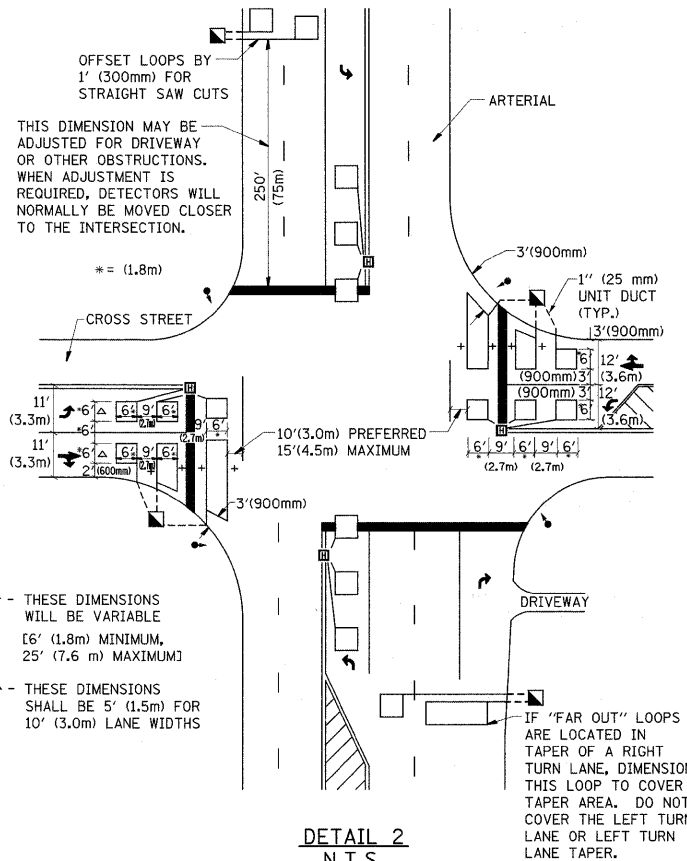
- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST 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.

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



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

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



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

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 DIMENSIONS 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.

• FAU 3562 & FAU 1504

FILE NAME =	USER NAME = ebebawo	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cd:\pwwork\pwwork\ebawo\157545\Dist1	td.dgn	DRAWN -	REVISED -					•	2009-131 RS	COOK	51	51
PLOT SCALE = 5/8" = 1"		CHECKED - R.K.F.	REVISED -					TS-07				CONTRACT NO. 60142
PLOT DATE = 11/20/2009		DATE -	REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
				SCALE: NONE			SHEET NO. 1 OF 1 SHEETS		STA. TO STA.			