STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAU ROUTE 2660: BUSSE RD IL 58 (GOLF RD) TO IL 72 (HIGGINS RD) SECTION 540R-1-RS PROJECT NO. ACM-2660(001) **RESURFACING (MAINTENANCE) COOK COUNTY** C-91-335-98

R 11 E CENTRAL PROJECT ENDS MOUNT STATION 258+09 PROSPECT GOLF RD OMISSION STATION 206+45 TO STATION 216+56 ALGONQUIN RD. HIGGINS RD. ELK GROVE VILLAGE BUSSE PROJECT BEGINS STATION 162+02

COUNTY TOTAL SHEETS NO. 540R-1-RS ILLINOIS CONTRACT NO. 60649

D-91-335-98



STATE OF ILLINOIS **DIVISION OF HIGHWAYS** APRIL 16, 20 08 Diane M. O'Kenfa gra DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER May 9, 20 08 Eric & Narado Ontario Engineer OF DESIGN AND ENVIRONMENT

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN THE VILLAGES OF MOUNT PROSPECT AND ELK GROVE VILLAGE

TRAFFIC DATA:

0

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2007 ADT: 34,700 SPEED LIMIT: 35 MPH TO 40 MPH

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS. THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

PROJECT ENGINEER ROBERT BORO (847) 705-4178 PROJECT MANAGER KEN ENG

CONTRACT NO. 60649



T41N

ELK GROVE TOWNSHIP

GROSS LENGTH OF PROJECT = 9,607 FT = 1.82 MILES NET LENGTH OF PROJECT = 8,596 FT = 1.63 MILES

INDEX OF SHEETS:

SHEET NO.	DESCRIPTION:		420001-07	PAVEMENT JOINTS
. 1	COVER SHEET		442101-07	CLASS B PATCHES
2	INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES		442201 <i>-03</i>	CLASS C & D PATCHES
3-4	SUMMARY OF QUANTITIES		604001 <i>-02</i>	FRAMES AND LIDS, TYPE 1
5-7	TYPICAL SECTIONS		604091 <i>-01</i>	FRAMES AND GRATES, TYPE 24
8-11	ROADWAY AND PAVEMENT MARKING PLANS		606001- <i>03</i>	CONCRETE CURB TYPE B AND COMBINATION CONCRETE
12-16	DETECTOR LOOP REPLACEMENT PLANS			CURB AND GUTTER
17	DETAILS FOR FRAMES AND LIDS ADJUSTMENT		606301 <i>-03</i>	PC CONCRETE ISLANDS AND MEDIANS
••	WITH MILLING		701301 <i>-02</i>	LANE CLOSURE, 2L,2W SHORT TIME OPERATIONS
18	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT		701601- <i>05</i>	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NON-TRAVERSABLE MEDIAN
19	BUTT JOINT AND HMA TAPER DETAILS		701606 <i>-05</i>	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE
20	HMA TAPER AT EDGE OF P.C.C. PAVEMENT			MEDIAN
21	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS		701701- <i>05</i>	URBAN LANE CLOSURE, MULTILANE, INTERSECTION
22	TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)		701901	TRAFFIC CONTROL DEVICES
23	DISTRICT ONE TYPICAL PAVEMENT MARKINGS		886001	DETECTOR LOOP INSTALLATIONS
24	TRAFFIC CONTROL AND PROTECTION AT TURN BAY (TO REMAIN OPEN TO TRAFFIC)		886006	TYPICAL LAYOUTS FOR DETECTION LOOPS
25	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING	4.8	es e	
26	ARTERIAL ROAD INFORMATION SIGN			

STATE STANDARDS:

GENERAL NOTES:

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF MOUNT PROSPECT AND CITY OF DESPALINES.

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

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

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

THE ENGINEER SHALL CONTACT WALLY CZARNY, TRAFFIC FIELD ENGINEER, AT (773) 685-8386 A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

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

THE CONTRACTOR SHALL SAVE AND REPLACE THE STONES/COBBLESTONES AFTER THE CURB AND GUTTER HAVE BEEN REMOVED AND REPLACED. (THE COST WILL BE INCLUDED IN THE COST FOR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT").

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

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

LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS). 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 & ORDERING OF MATERIALS.

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

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

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.

THE PROPOSED HOT-MIX ASPHALT RESURFACING SHALL BE TAPERED OUT AT A RATE OF TWENTY (20) FEET PER INCH OF THICKNESS AT MAINLINE AND MAJOR SIDE STREET LOCATIONS, EXCEPT WHERE BUTT JOINTS ARE INDICATED. AT MINOR STREETS AND ENTRANCES, TAPER OUT IN TEN (10) FEET EXCEPT WHERE BUTT JOINTS ARE INDICATED AT SEAL COATED STREETS AND ENTRANCES, TAPER OUT IN THREE (3) FEET UNLESS OTHERWISE SHOWN ON THE PLANS.

USE #8 EPOXY-COATED TIE BARS, CONFORMING TO ART. 1006.10 OF THE STANDARD SPECIFICATIONS, FOR ALL TIE BARS. USE THE "LONGITUDINAL CONSTRUCTION JOINT (TIE BAR GROUTED IN PLACE)" DETAIL SHOWN ON HIGHWAY STANDARD 420001 FOR ALL LONGITUDINAL JOINTS.

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DISTRICT ONE STANDARD FOR TRAFFIC SIGNAL

DETAILS FOR ROADWAY RESURFACING

DISTRICT ONE - DETECTOR LOOPS INSTALLATION

DESIGN DETAILS

27-30

31

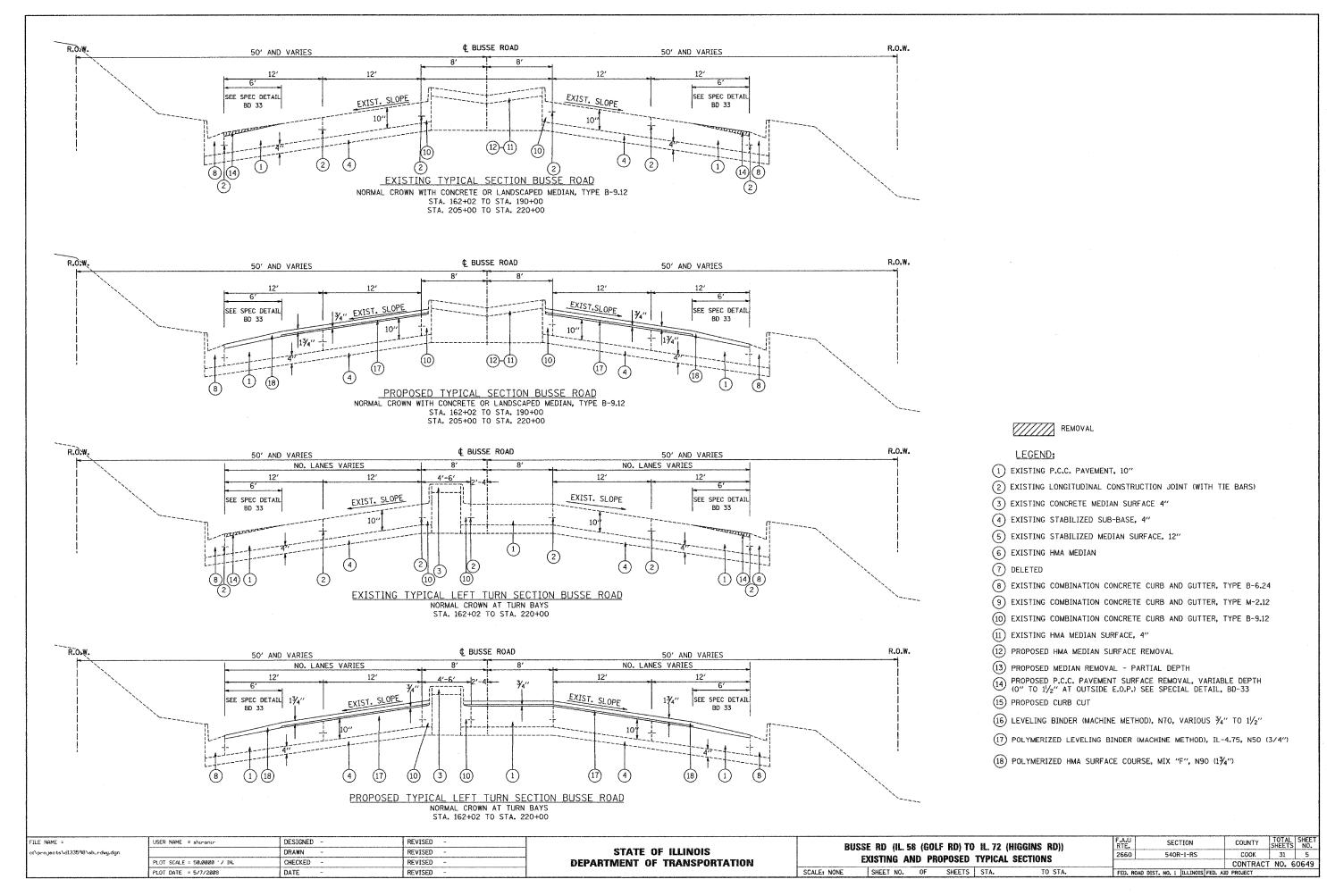
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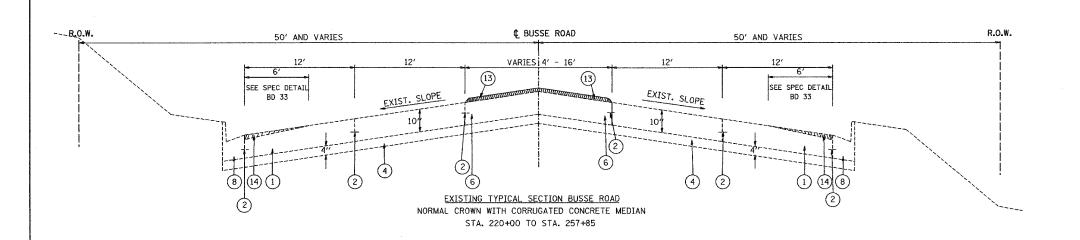
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INDEX O	F SHEETS,	STATE	STANDAR	DS, AND	GENERAL NOTES
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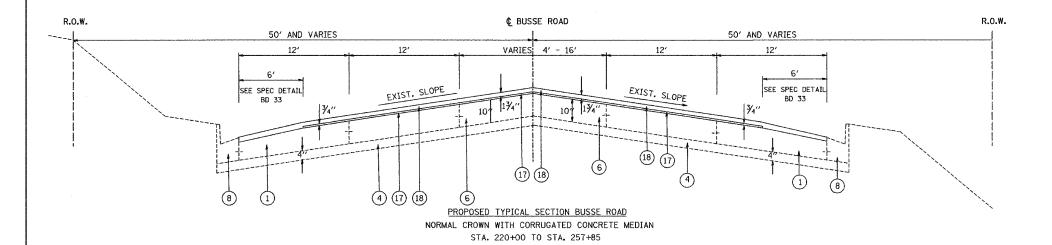
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F.A.U RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
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FED. R	OAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT		

	CHAMADY OF CHANTITIES		URBAN		CO	NSTRUCTION	N TYPE CO	DE			SLIMMAI	RY OF QUANTITIES		BOY.PED.	· · ·	CONSTR	JCTION TYPE	CODE	<u> </u>
· · · · · · · · · · · · · · · · · · ·	SUMMARY OF QUANTITIES	<u> </u>	801. FED. 201. STATE	BUSSE										TOTAL	BUSSE				
ODE NO	ITEM	UNIT	TOTAL QUANTITIES	ROAD						CODE NO		ITEM	UNIT	QUANTITIES	ROAD				
				1000-2A											I000-2A				
	DETERMINATE ANTEDIALS (DOLLAS COAT)	TON	31	31				, .											
0600200	BITUMINOUS MATERIALS (PRIME COAT)	·	149	149						70103815	TRAFFIC CONTRO	DL SURVEILLANCE	CAL DA	23	23		,		
0600300	AGGREGATE (PRIME COAT)	TON								70300100	SHORT-TERM PAY	MENT MARKING	FOOT	7680	7680	*			
0600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	12	12						70300210	TEMPORARY PAVE		SQ FT	950	950				
0 <i>600635</i> 0600895	LEVELING BINDER (MACHINE METHOD), NTO CONSTRUCTING TEST STRIP	TON EACH	3	3						70300220	TEMPORARY PAVI		FOOT	32725	32725				
0600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SQ YD	1460	1460						10300220	- LINE 4"								
	JOINT									70300240	TEMPORARY PAVI	EMENT MARKING	FOOT	3065	3065				
0600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SO YD	1457	1457						70300250	TEMPORARY PAV	EMENT MARKING	FOOT	1050	1050				
0603595	POLYMERIZED HOT-MIX ASPHALT SURFACE	TON	6424	6424						10300250	- LINE 8"	EMELY MANUSTRA							
	COURSE, MIX "F", N90									70300260	TEMPORARY PAV	EMENT MARKING	FOOT	2220	2220				
2001300	PROTECTIVE COAT	SQ YD	5450	5450				14		70700000	TEMPORARY PAV	EMENT MARKING	FOOT	670	670				
4001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	16740	16740						70300280	- LINE 24"	FINE (4) MONIN THO	. 33.			Name of the last			
4003510	MEDIAN REMOVAL PARTIAL DEPTH	SQ FT	20364	20364						70300520	PAVEMENT MARK	ING TAPE, TYPE III 4"	FOOT	9300	9300				
4003900	MEDIAN SURFACE REMOVAL AND REPLACEMENT	SQ FT	700	700						X 78000100	THERMOPLASTIC	PAVEMENT MARKING	SQ FT	950	950				
4200970	CLASS B PATCHES, TYPE II, 10 INCH	SQ YD	173	173	÷					7000000		PAVEMENT MARKING	FOOT	32725	32725				
4200974	CLASS B PATCHES, TYPE III, 10 INCH	SO YD	77	77	•				.9	X 78000200	- LINE 4"	LWAEMENI MWOOTIAO							
4200976	CLASS B PATCHES, TYPE IV, 10 INCH	SO YD	147	147		<u> </u>	. • •			¥ 78000400	THERMOPLASTIC	PAVEMENT MARKING	FOOT	3065	3065		. ii ~		
4201761	CLASS D PATCHES, TYPE I, 10 INCH	SO YD	420	420		. 1				7 79000500		PAVEMENT MARKING	FOOT	1050	1050				
14201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	7055	·7055		Lifeting of the Control of the Contr				78000500	- LINE 8"	I PAPERTI MWINITIA							
14201769	CLASS D PATCHES, TYPE III, 10 INCH	SO YD	690	690						X 78000600	THERMOPLASTIC	PAVEMENT MARKING	FOOT	2220	2220				
14201771	CLASS D PATCHES, TYPE IV, 10 INCH	SO YD	946	946						70000550		PAVEMENT MARKING	FOOT	670	670		`		
12001200	PAVEMENT FABRIC	SO YD	224	224						¥ 78000650	- LINE 24"	. I SAFMEN MANUTHO							
14213200		FOOT	1902	1902						¥ 78100100	RAISED REFLEC	TIVE PAVEMENT MARKER	EACH	968	968				
55039700		FOOT	3350	3350					• •	78300200	•	TIVE PAVEMENT MARKER	EACH	657	657				
50252800		EACH	6	6						4 2522222	REMOVAL.	OF EXISTING TRAFFIC SIGNAL	EACH	1	1				
50300310		EACH	36	36						¥ 85000200	INSTALLATION	W EVISITED EMMELIC STOWNE	LACII	•					
	(SPECIAL)					-				¥ 87301305	ELECTRIC CABI	E IN CONDUIT, LEAD-IN,	FOOT	648	648	-			-
50406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	67	67						V 0700000			EACH	4	4				
50619600	CONCRETE MEDIAN, TYPE SB-6.12	SO FT	3124	3124						¥ 87900200	DRILL EXISTIN		EACH	2	2				
57000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4						* 88500100	INDUCTIVE LO		FOOT	2117	2117				
7100100	MOBILIZATION	L SUM	1	1						¥ 88600600	DETECTOR LOOP			590	590				•
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	!						¥ 89502300		RIC CABLE FROM CONDUIT	FOOT SO FT		257				
					•					X0322256		FORMATION SIGNING	ļ		2090				
0102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1						X0322494	CURB CUT		FOOT	2090	2090				
0102635	TRAFFIC CONTROL AND PROTECTION.	L SUM	1	1		-						:							
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		SUMMARY OF QUANTITIES	· · · · · · · · · · · · · · · · · · ·	URBAH 80'l FEO.			CONSTRUCTI	ON TYPE C	ODE		1		<u>ب</u>	IMMADV.	05 011				<u> </u>			CONSTRUCTIO	N TYPE CO	nDF	· · · · · · · · · · · · · · · · · · ·
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	X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	2733	2733																			,	
	X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SO YD	13415	13415																			-	·
	X4421000	PARTIAL DEPTH PATCHING	TON	345	345									· ·											
	X4422030	PARTIAL DEPTH REMOVAL 3"	SO YD	2000	2000																	-			
	X8950200	REBUILD EXISTING HANDHOLE	EACH	2	2																				
	XX002267	MEDIAN REMOVAL AND REPLACEMENT	SO FT	342	342																				
	Z0017100	DOWEL BARS	EACH	560	560								•												
	Z0018400	DRAINAGE STRUCTURES TO BE ADJUSTED	EACH	90	90				-	ŀ											1				
NP	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	12	12											i									
	Z0075325	TIE BARS 1"	EACH	156	156		-																		
	X0325984 Z0076600		SO YD HOUR	2825 1500	2825 /500													. '		1.					
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HMA MIXTURE REQUIREMENT

MIXTURE TYPE	AC TYPE	AIR VOIDS
PAVEMENT RESURFACING		
POLYMERIZED HMA SURFACE COURSE,	SBS/SBR	
MIX "F", N90, IL 9.5 mm	PG 70-22	4%@90 Gyr
POLYMERIZED LEVELING BINDER	SBS/SBR	,
(MACHINE METHOD), IL-4.75, N50	PG 76-28/ -22	4%@50 Gyr
MEDIAN		
POLYMERIZED HMA SURFACE COURSE,	SBS/SBR	
MIX "F", N90, IL 9.5 mm	PG 70-22	4%@90 Gyr
POLYMERIZED LEVELING BINDER	SBS/SBR	
(MACHINE METHOD), IL-4.75, N50	PG 76-28/ -22	4% 0 50 Gyr
PARTIAL DEPTH PATCHES (HMA BINDER IL-19 mm)	PG 64-22*	4%@70 Gyr
LEVELING BINDER (MACHINE METHOD),	*	
N70, IL 9.5 mm	PG 64-22*	4%@70 Gyr
PATCHING		
CLASS D PATCHES (HMA BINDER IL 19-mm)	PG 64-22*	4% 0 70 Gyr

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/INCH.

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

REMOVAL

LEGEND:

- 1) EXISTING P.C.C. PAVEMENT, 10"
- (2) EXISTING LONGITUDINAL CONSTRUCTION JOINT (WITH TIE BARS)
- (3) EXISTING CONCRETE MEDIAN SURFACE 4"
- (4) EXISTING STABILIZED SUB-BASE, 4"
- (5) EXISTING STABILIZED MEDIAN SURFACE, 12"
- 6 EXISTING HMA MEDIAN
- 7 DELETED
- (8) EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (9) EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12
- (10) EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-9.12
- 11) EXISTING HMA MEDIAN SURFACE, 4"
- (12) PROPOSED HMA MEDIAN SURFACE REMOVAL
- (13) PROPOSED MEDIAN REMOVAL PARTIAL DEPTH
- PROPOSED P.C.C. PAVEMENT SURFACE REMOVAL, VARIABLE DEPTH (0" TO 11/2" AT OUTSIDE E.O.P.) SEE SPECIAL DETAIL, BD-33
- (15) PROPOSED CURB CUT
- (16) LEVELING BINDER (MACHINE METHOD), N70, VARIOUS 3/4" TO 11/2"
- (17) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 (3/4")
- (18) POLYMERIZED HMA SURFACE COURSE, MIX "F", N90 (13/4")

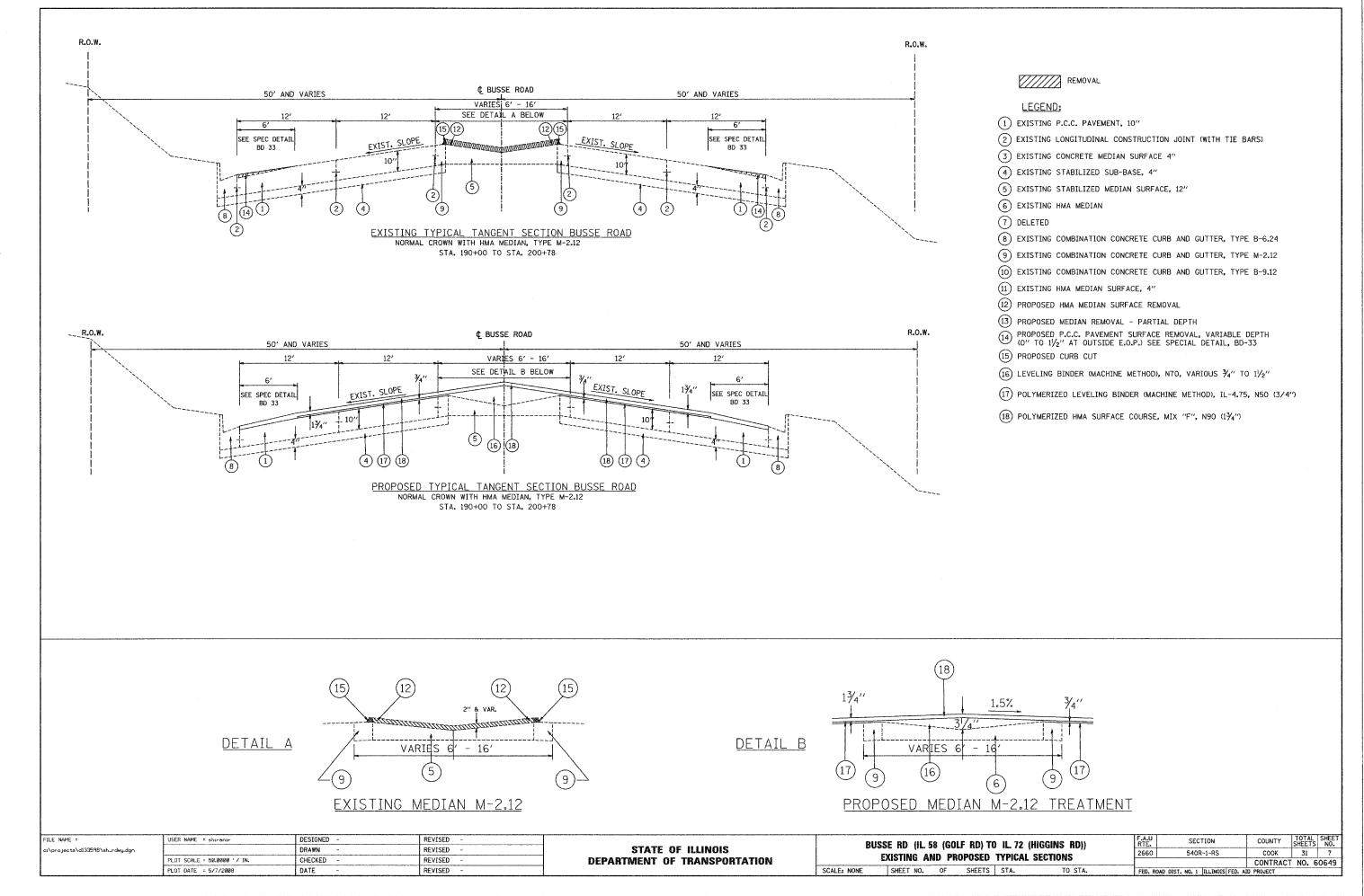
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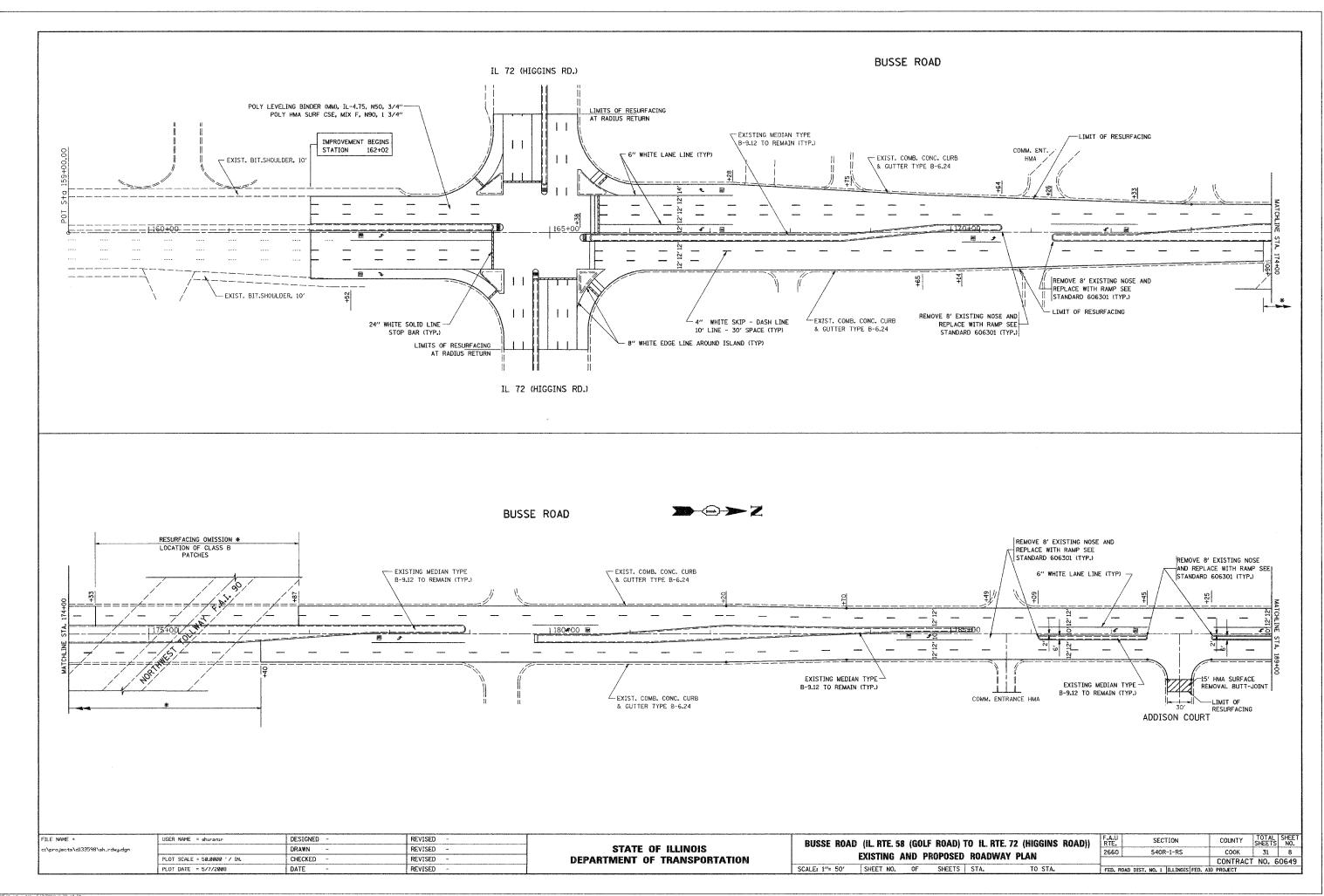
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

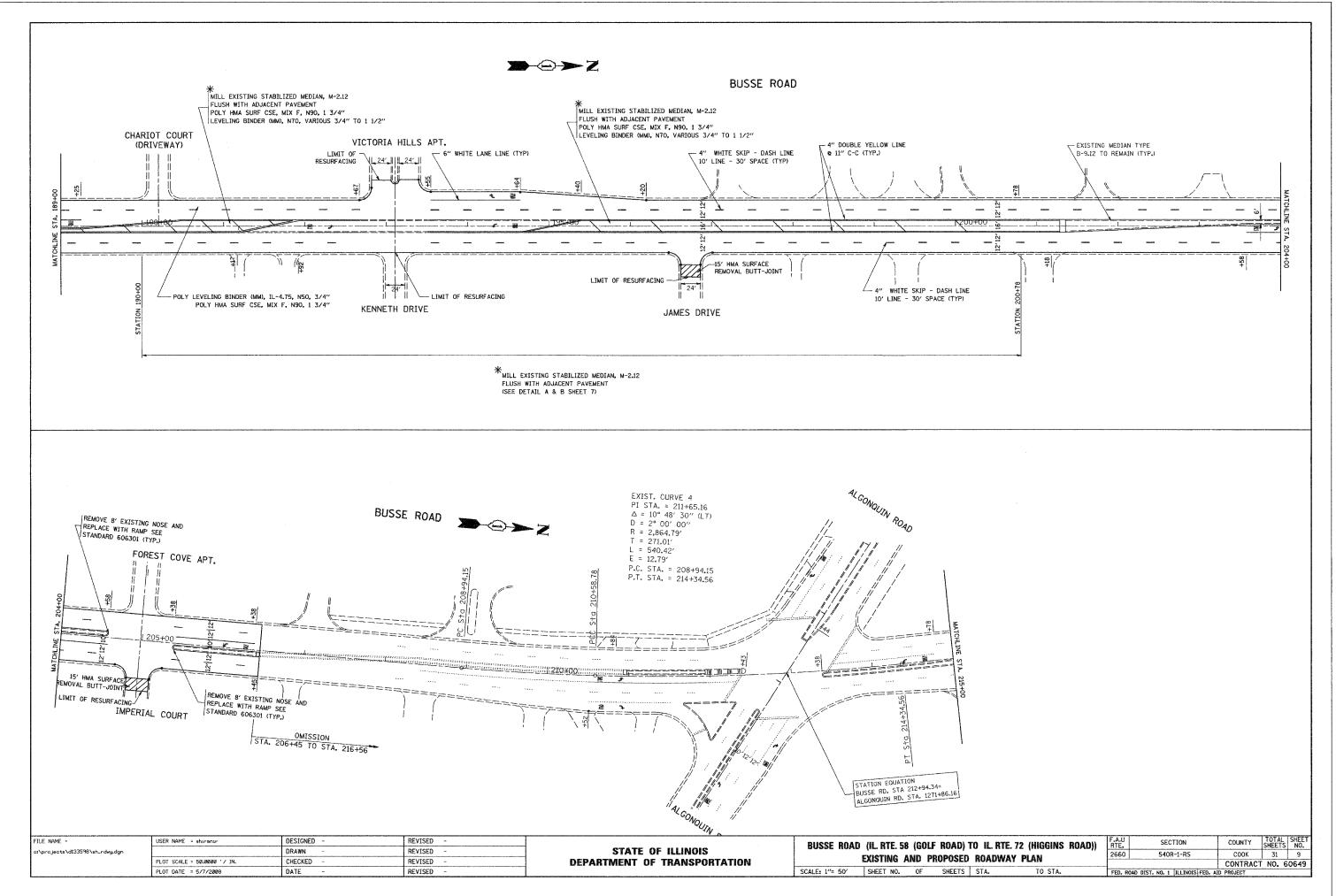
BUSSE RD (IL. 58 (GOLF RD) TO IL. 72 (HIGGINS RD))
EXISTING AND PROPOSED TYPICAL SECTIONS

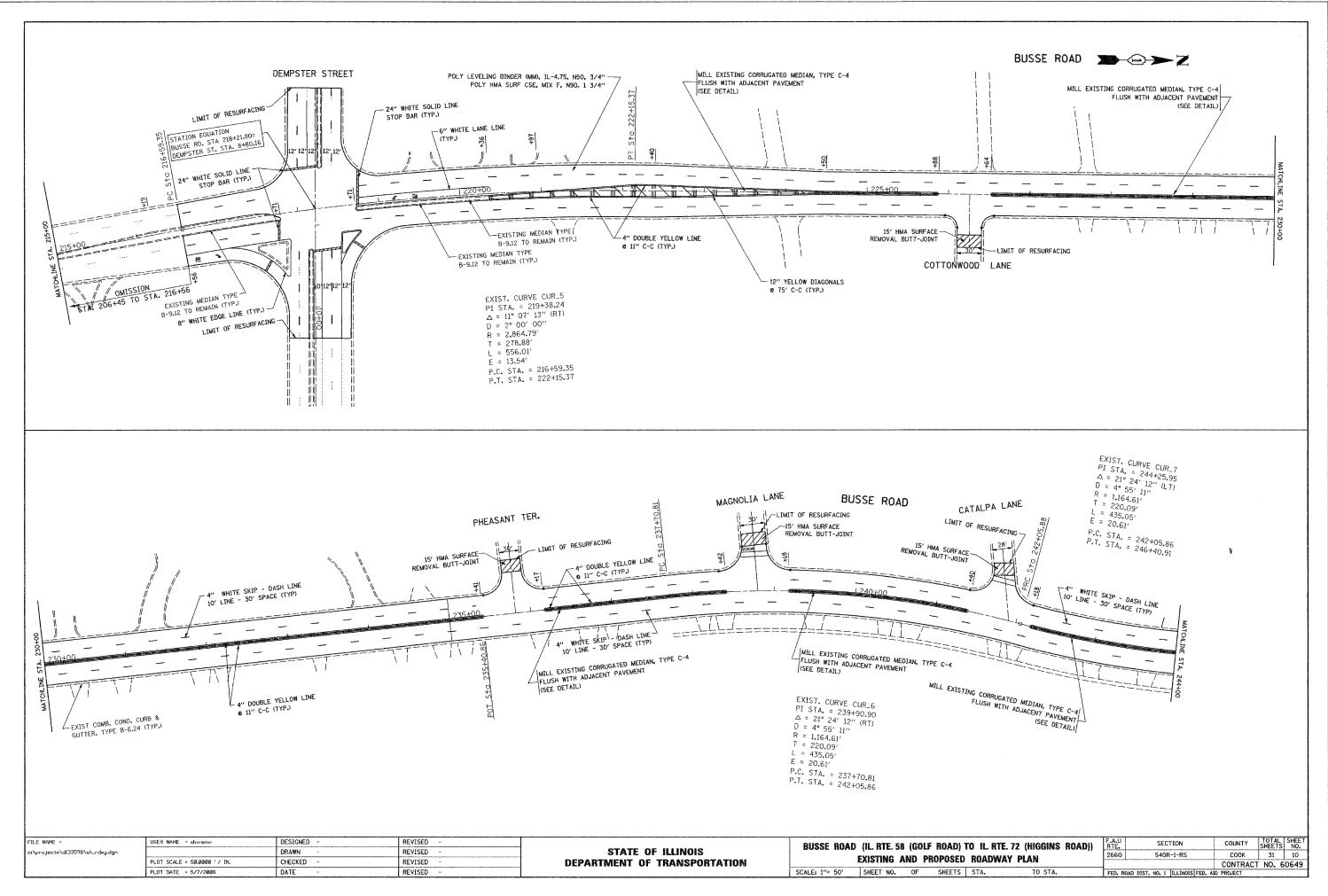
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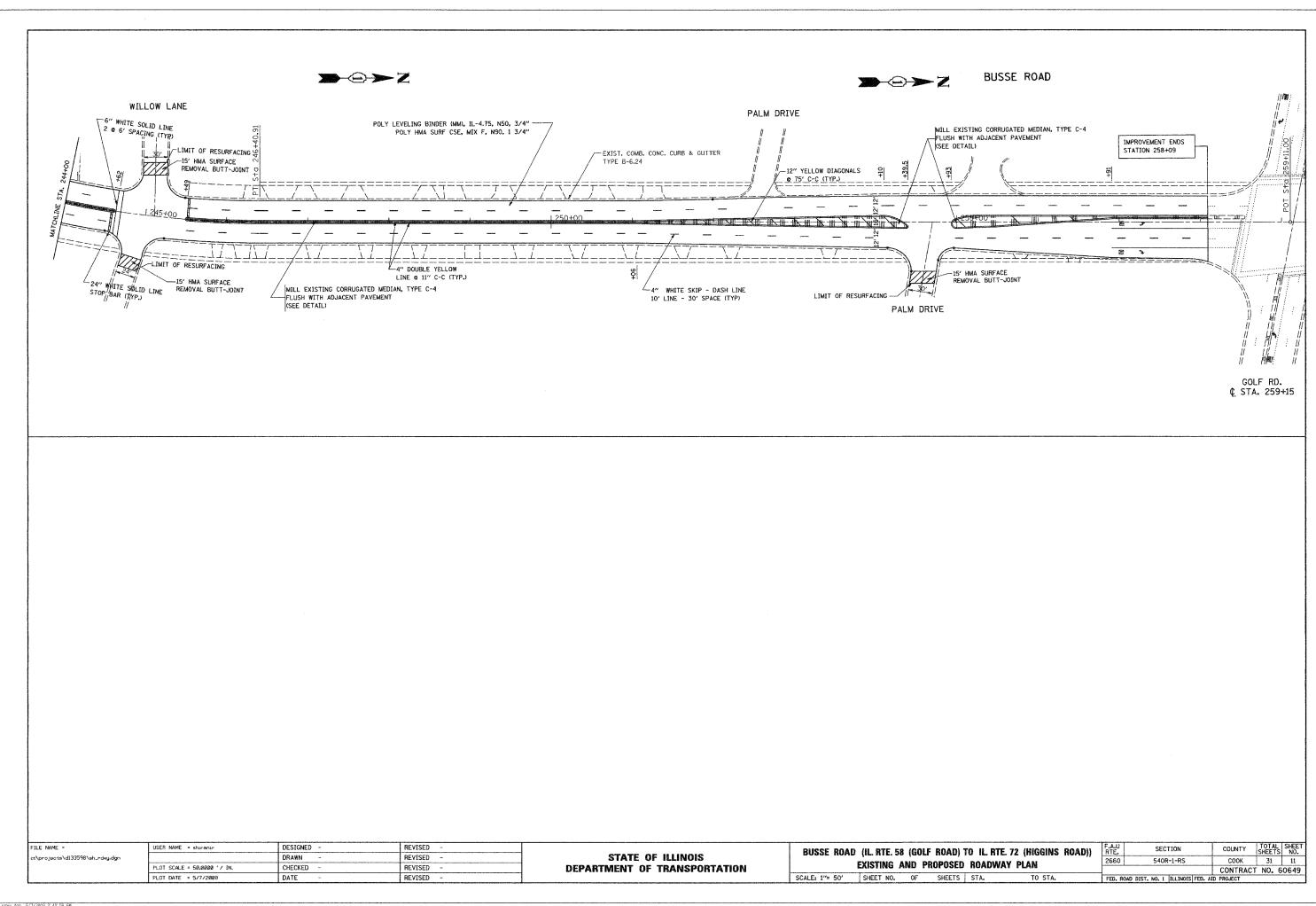
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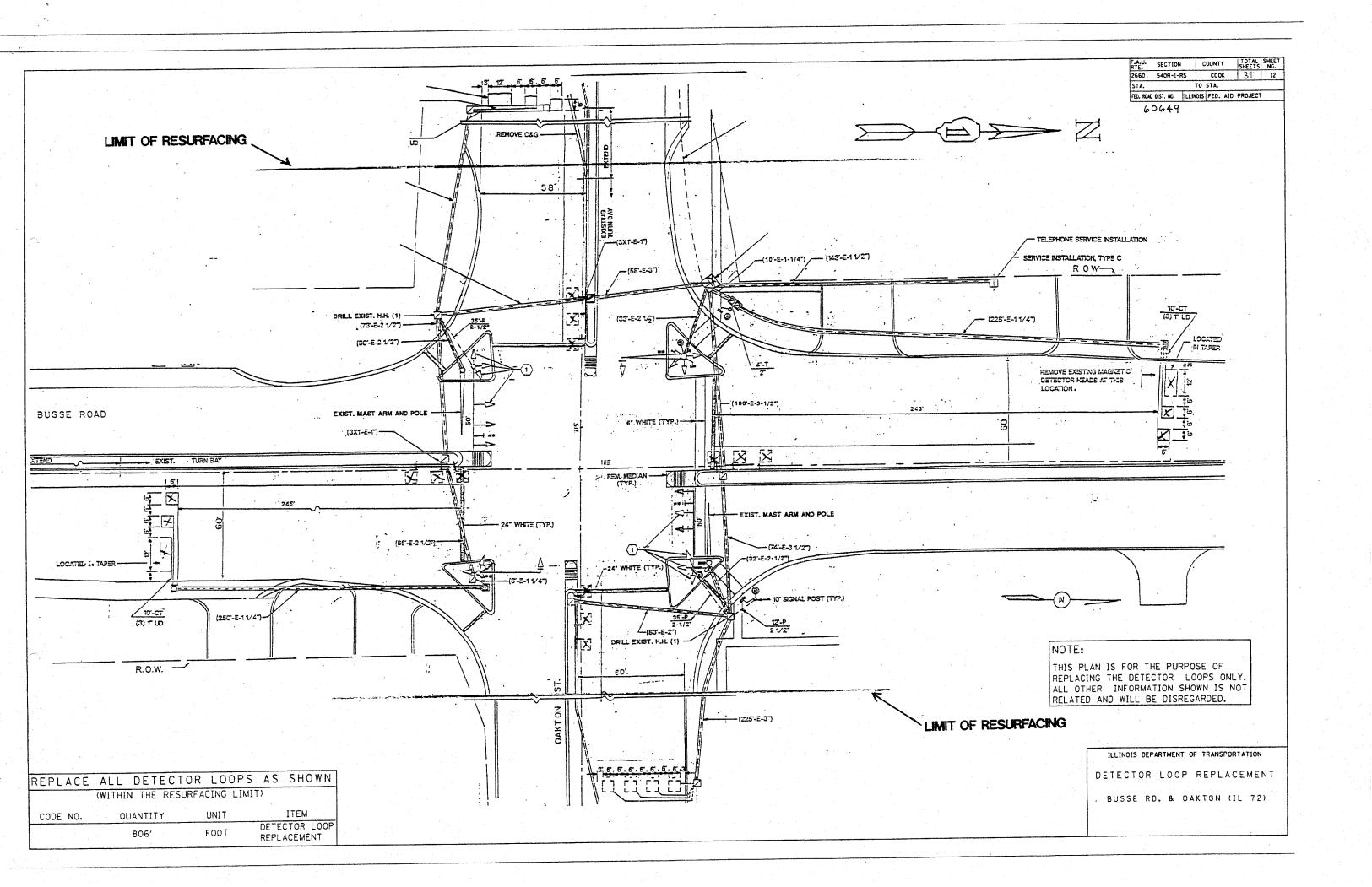


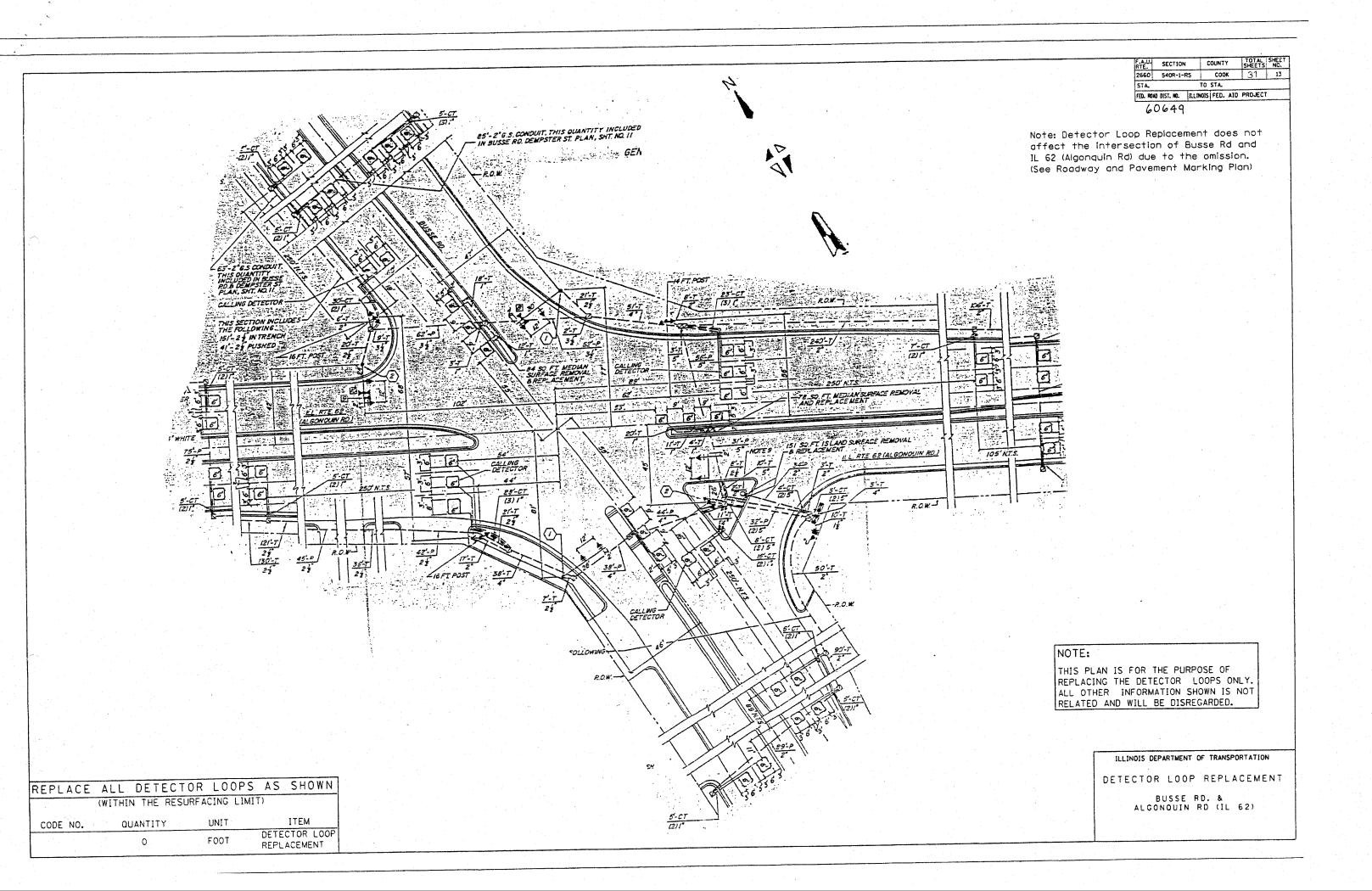


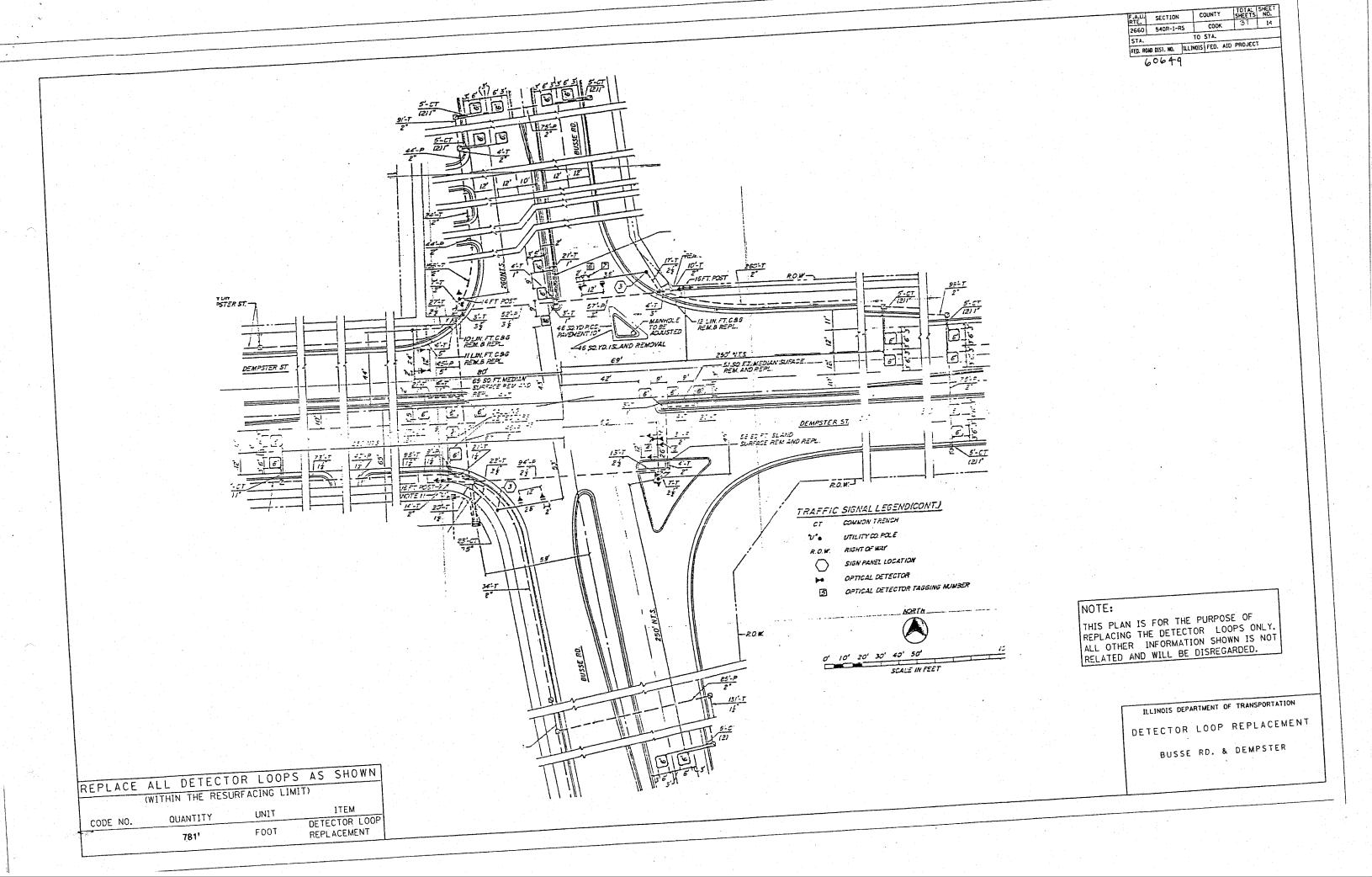


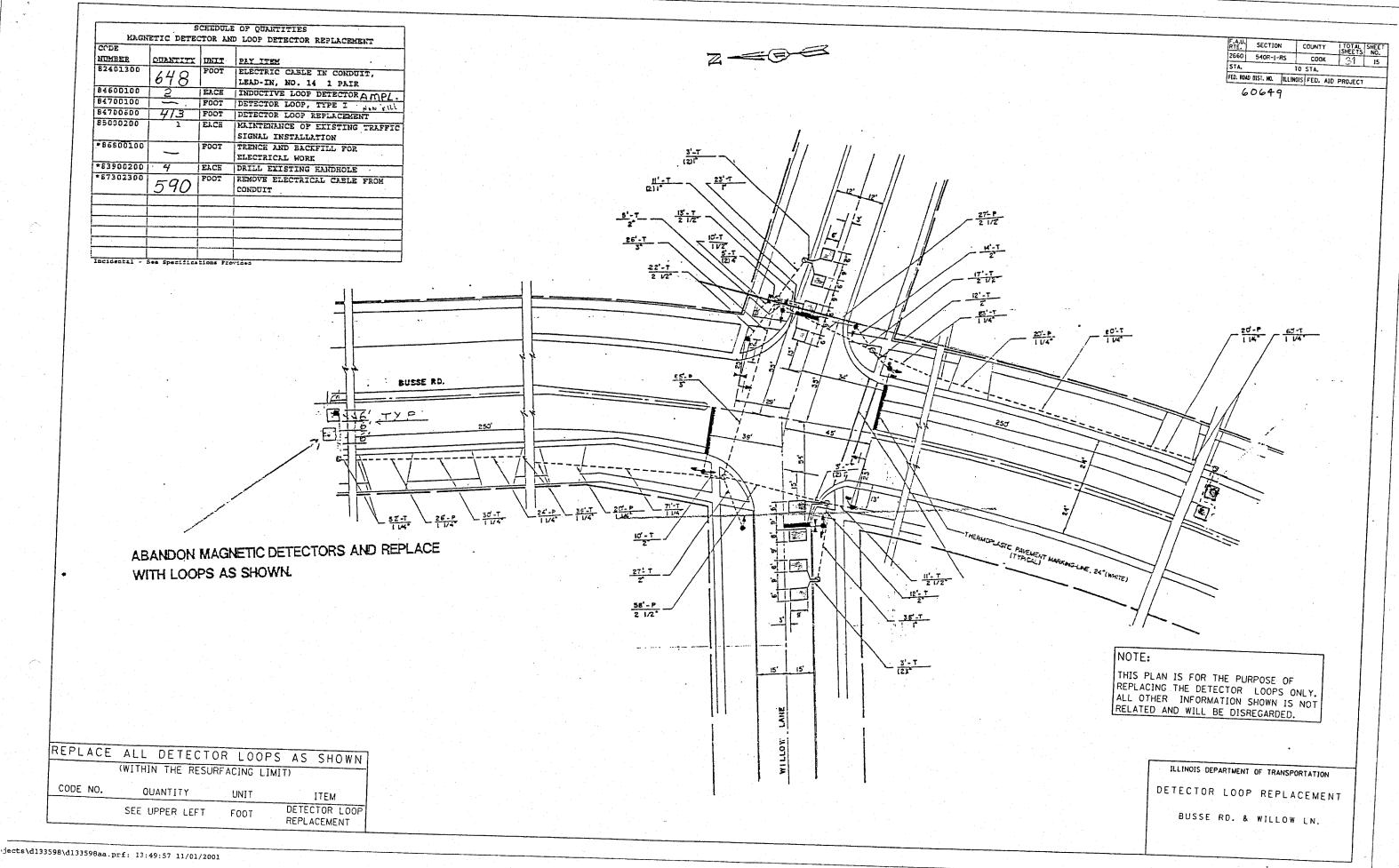


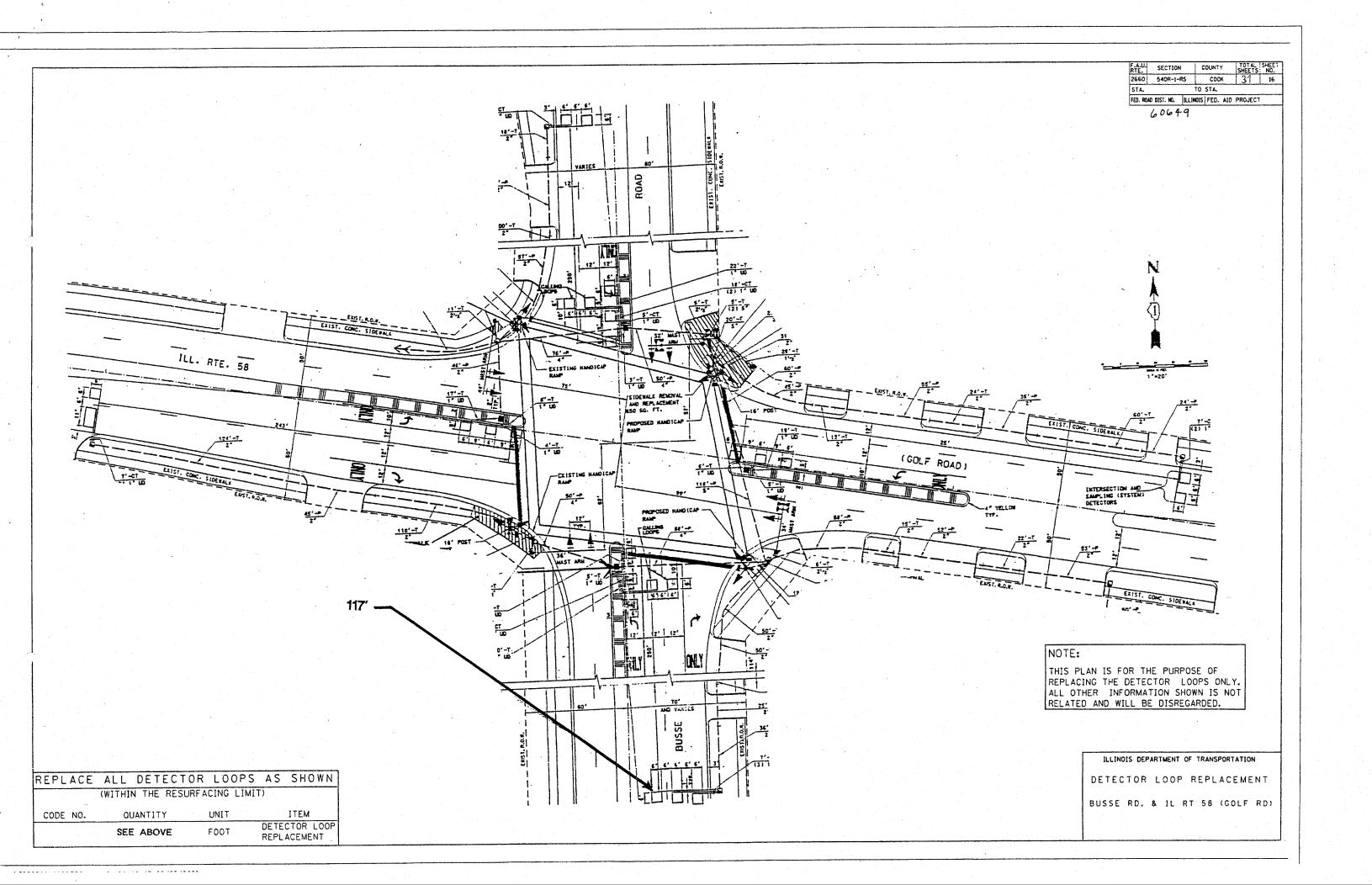


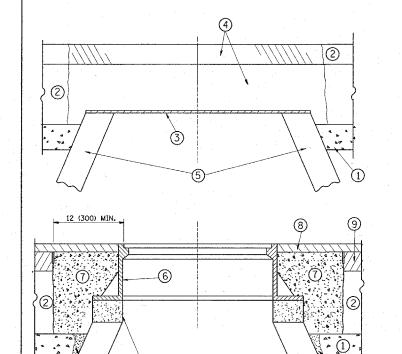












PROPOSED

PROPOSED

SAND FILL

BRICK, MORTAR, OR CONC. ADJUSTING RINGS

- PROPOSED CRUSHED STONE AND HMA SURFACE MIX

6 FRAME AND LID (SEE NOTES)

- CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- 8 PROPOSED HMA SURFACE COURSE
- 9 PROPOSED HMA BINDER COURSE

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.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

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

ILE NAME = USER NAME = shiramir DESIGNED - R. SHAH REVISED - R. SHAH 03-10-95 \diststd\22x34\bd08.dgn REVISED - A. ABBAS 03-21-97 CHECKED PLOT SCALE = 50.0000 '/ IN. REVISED - R. WIEDEMAN 05-14-04 PLOT DATE = 4/17/2008 DATE 10-25-94 REVISED - R. BORO 01-01-07

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

TOTAL SHEET SHEETS NO. COUNTY DETAILS FOR 540R-1-RS COOK 2660 FRAMES AND LIDS ADJUSTMENT WITH MILLING CONTRACT NO. 60649 BD600-03 (BD-8) SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

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

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.

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.

C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE. D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 11/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.

CONSTRUCTION PROCEDURES

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE. B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.

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.

LEGEND

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

PROPOSED SAND FILL

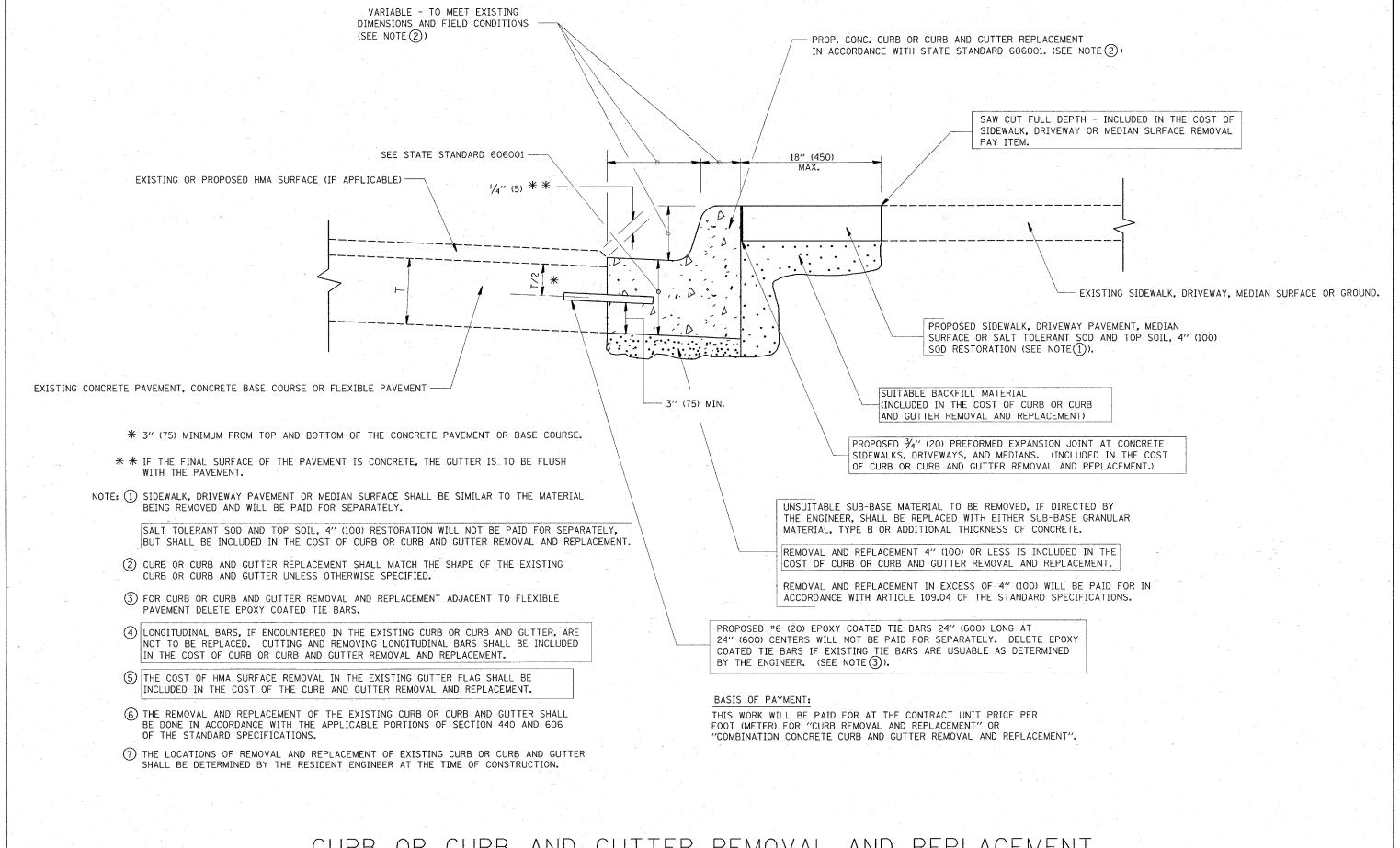
1 SUB-BASE GRANULAR MATERIAL

2 EXISTING PAVEMENT

3 36 (900) DIAMETER METAL PLATE

5 EXISTING STRUCTURE

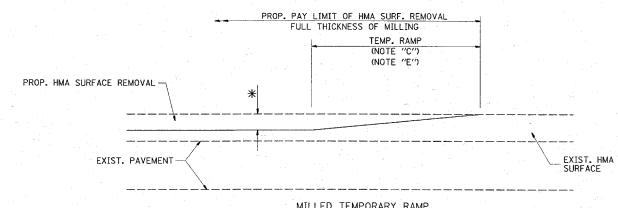
LOCATION OF STRUCTURES:



CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

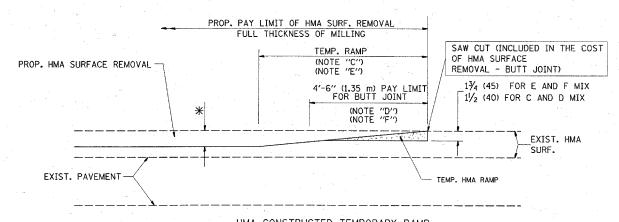
TOTAL SHEET SHEETS NO. FILE NAME = DESIGNED REVISED -. R. SHAH 10-03-96 SECTION COUNTY CURB OR CURB AND GUTTER DRAWN - A. ABBAS 03-21-97 STATE OF ILLINOIS /1\d1ststd\22x34\bd24.dgr 540R-1-RS Cook. REMOVAL AND REPLACEMENT **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 60649 PLOT SCALE = 50.000 '/ IN CHECKED REVISED - M. GOMEZ 01-22-01 BD600-06 (BD-24) OT DATE = 4/17/2008 DATE 03-11-94 REVISED - R. BORO 01-01-07 SHEET NO. 1 OF 1 SHEETS STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

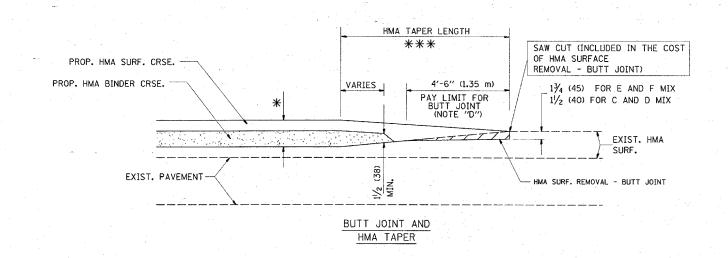
OPTION 1



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

OPTION 2

TYPICAL TEMPORARY RAMP

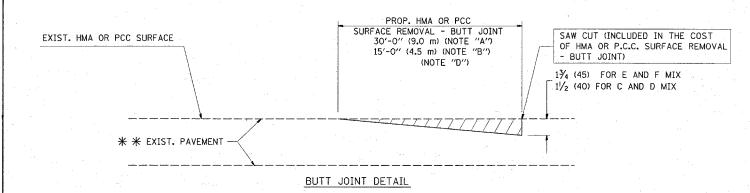


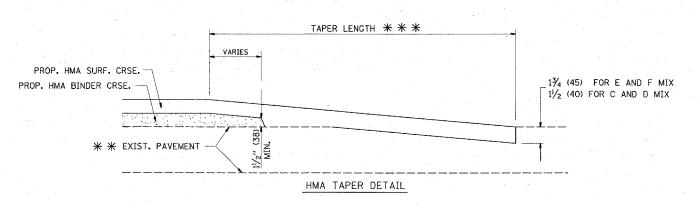
TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

FILE NAME = DESIGNED M. DE YONG R. SHAH 10-25-94 :\distatd\22x34\bd32.dgn DRAWN REVISED - A. ABBAS 03-21-97 CHECKED PLOT SCALE = 50.0000 '/ IN. REVISED - M. GOMEZ 04-06-01 PLOT DATE = 4/17/2008 DATE 06-13-90 REVISED R. BORO 01-01-07

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

COUNTY TOTAL SHEE NO. SECTION **BUTT JOINT AND** 540R-1-RS **HMA TAPER DETAILS** BD400-05 BD32 CONTRACT NO. 60649 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

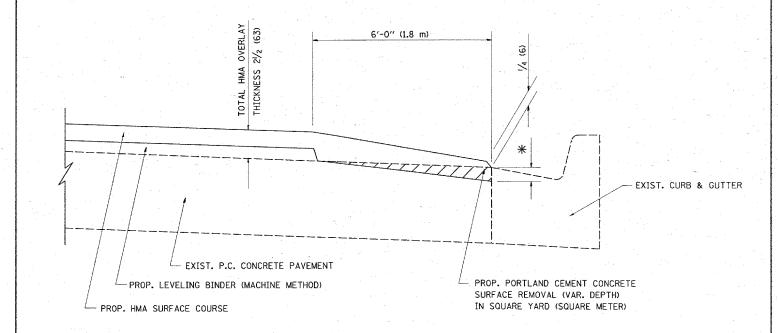
NOTES

- 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'-O" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- ** * * 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

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

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



HMA TAPER AT EDGE OF P.C.C PAVEMENT

		n.	
HMA SURFACE		LEVELING BINDER	
MIX	THICKNESS	THICKNESS	₩ MILLING AT GUTTER FLAG
CORD	11/2 (38)	1 (25)	11/4 (33)
F	1¾ (44)	3/4 (19)	11/2 (38)

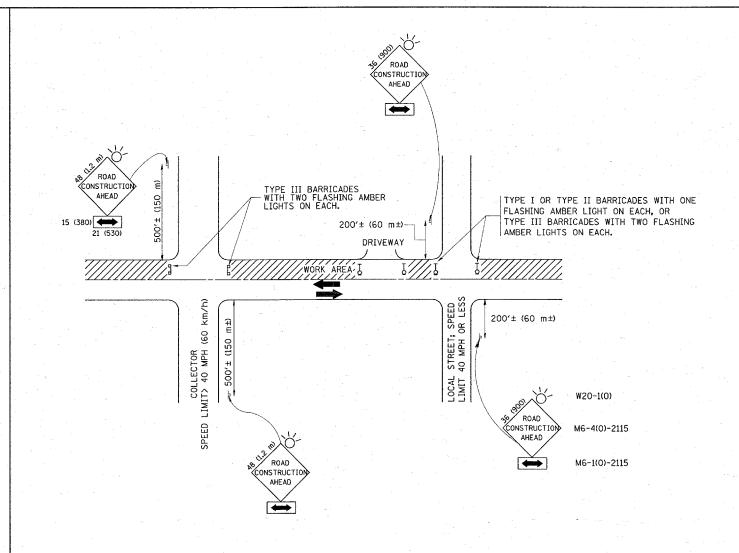
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TAPER AT

EDGE OF P.C.C. PAVEMENT

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



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:
- Q) 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:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1,2 m x 1,2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY
 BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION
 OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

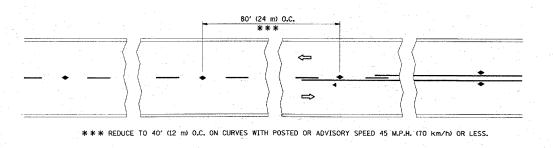
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL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

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

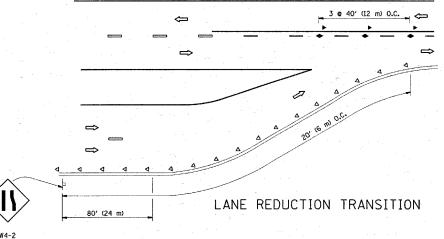
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	PLOT DATE = 4/17/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

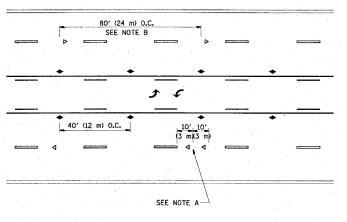
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	TR	AFFI	C	CON	ITRO	L AND	PROTEC	TION FOR		
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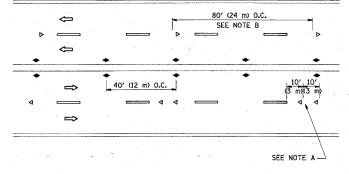


TWO-LANE/TWO-WAY

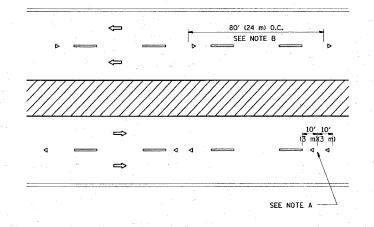




TWO-WAY LEFT TURN



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.

LANE MARKER NOTES

- 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.
- ALUSE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

SYMBOLS

YELLOW STRIPE

- WHITE STRIPE

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

DESIGN NOTES

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

MINIMUM OF 3 W EQUALLY SPACED 3 @ 80' (24 m) O.C. - 3 & 80' (24 m) 0.C. _ 3 @ 40' (12 m) 40' (12 m) 0.C. 40' (12 m) 0.C. \Rightarrow * SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

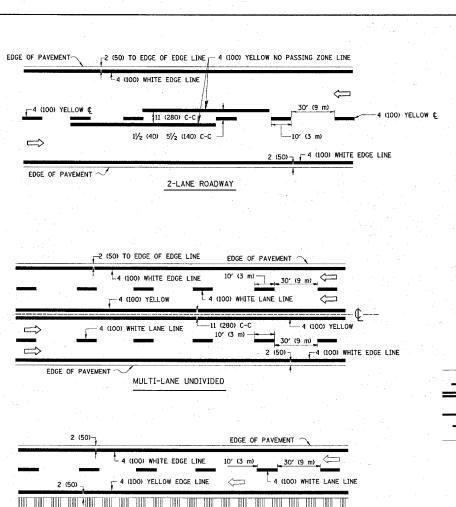
LEFT TURN

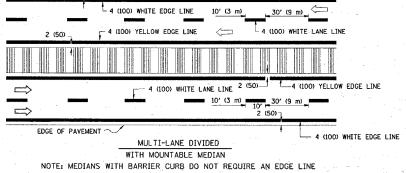
All dimensions are in inches (millimeters) unless otherwise shown.

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	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT
	PLOT DATE = 4/17/2008	DATE -	REVISED -	

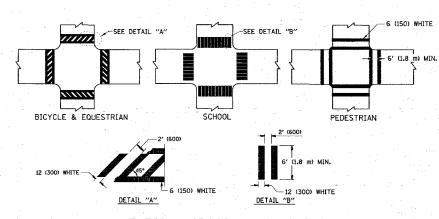
ATE OF ILLINOIS IT OF TRANSPORTATION

TYPICAL APPLICATIONS	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	2660	540R-1-RS	Cook	31	22
		TC-11	CONTRACT	NO. 6	564-9
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	D DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		

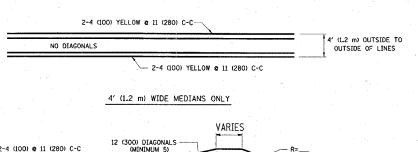


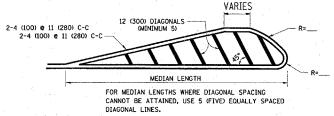


TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



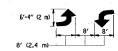


MEDIANS OVER 4' (1.2 m) WIDE

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

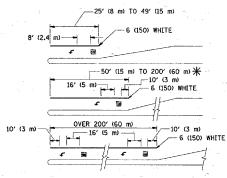
4 (100) YELLOW LINES (51/2 (140) C-C) 4 (100) YELLOW LINES (51/2 (140) C-C) 2-4 (100) YELLOW & 11 (280) C-C 4 (100) YELLOW LINES (51/2 (140) C-C)

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



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

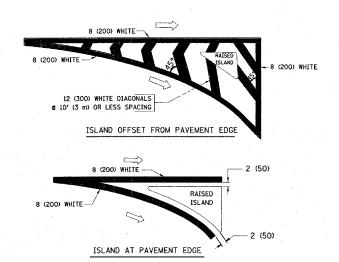


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. \P AREA = 15.6 SQ. FT. (1.5 m²))

* 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 UNDIVEDED PAVEMENT	2 2 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 & 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES .	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 & 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	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 L4 '(1.2 m) N ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (IOO) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (I,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 (0VER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (L.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) T0 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))

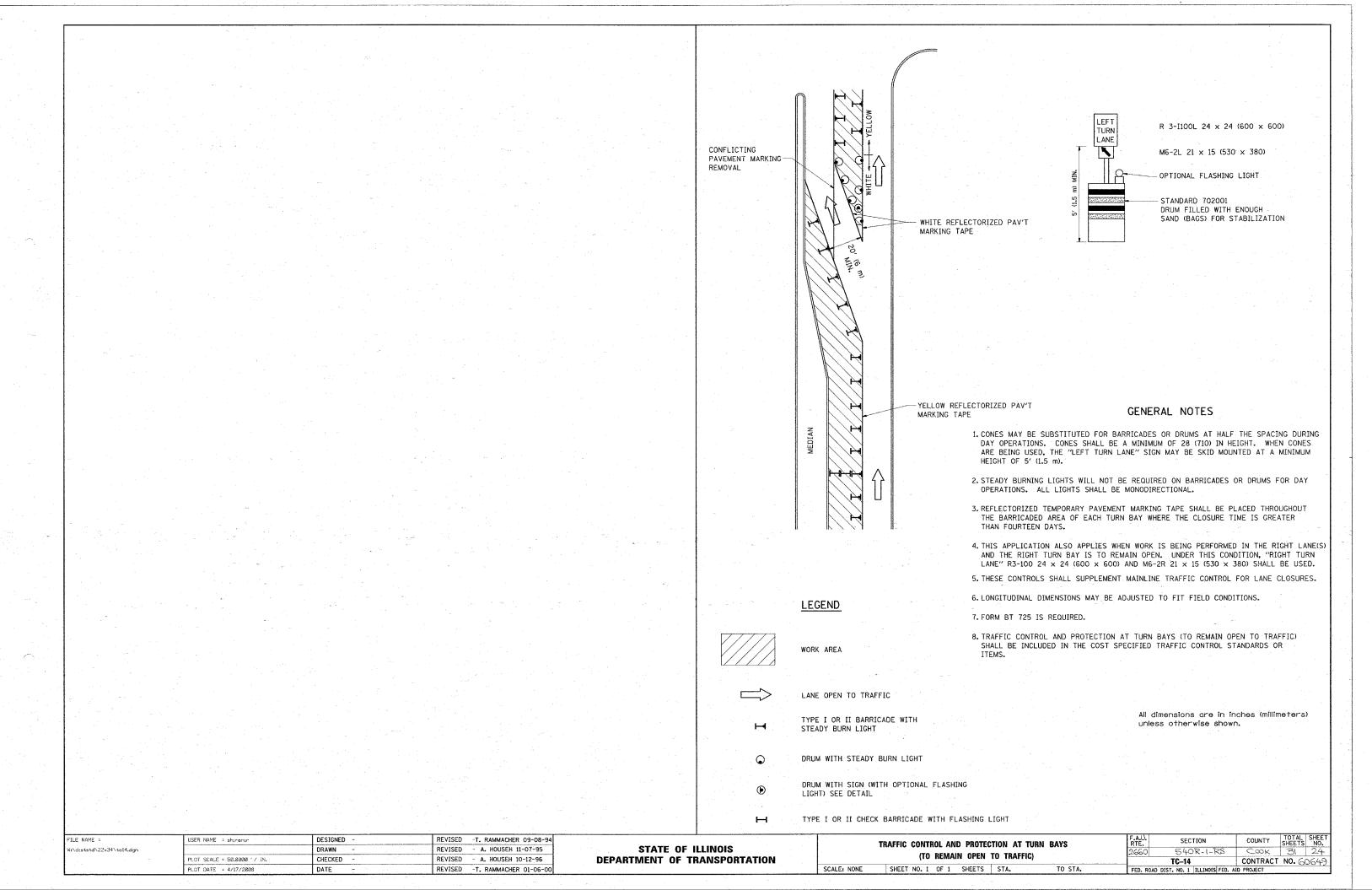
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

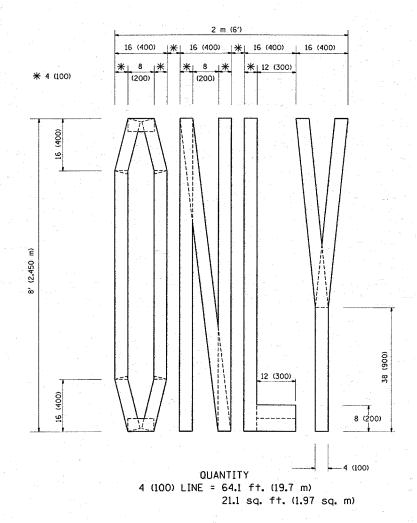
All dimensions are in inches (millimeters) unless otherwise shown.

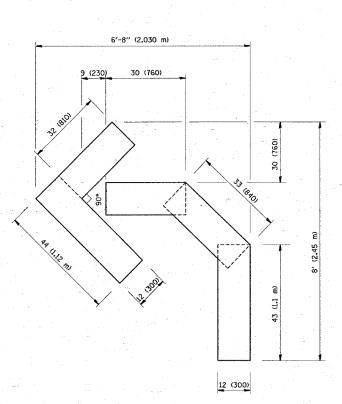
ILE NAME =	USER NAME = shiraoir	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
fs\distatd\22x34\te13.dgn		DRAWN -	REVISED -A. HOUSEH 10-09-96
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -A. HOUSEH 10-17-96
	PLOT DATE = 4/17/2008	DATE - 03-19-90	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

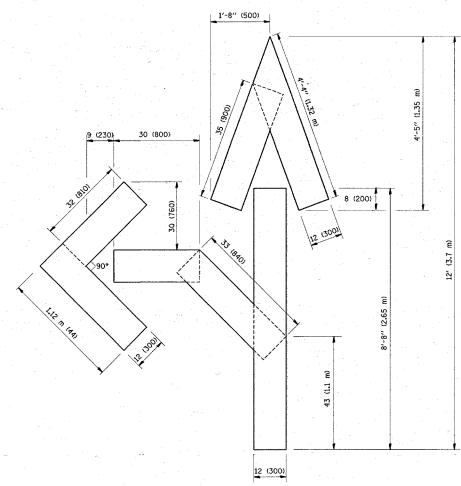
		DISTRICT OF	NE		F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	TVDICAL	PAVEMENT	MADVINGS		2660	540R-1-RS	C∞K	31	23
	ITTUAL		MAUMINGO			TC-13	CONTRACT	NO. 6	0645
SCALE: NONE	SHEET NO. 1 OF	1 SHEETS	STA.	TO STA.	FED. ROA	D DIST. NO. 1 ILLINOIS FED.	AID PROJECT		







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



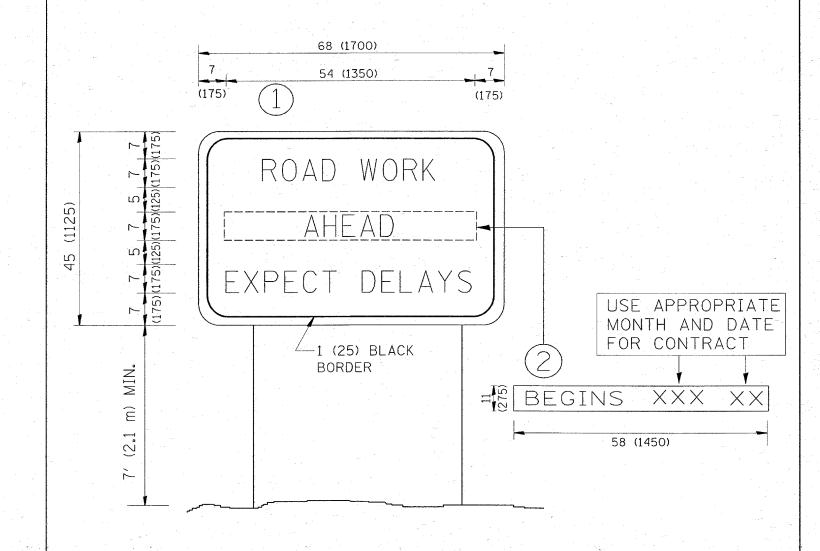
QUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

FILE NAME =	USER NAME = shiranir	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
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	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 4/17/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE	: OF	ILLINOIS		
DEPARTMENT	OF	TRANSPOR	TATION	

	PAVEMENT	MARKING LETTE	RS AND	SYMBOLS		RTE.	SECTION	COUNTY	SHEETS	NO.
		FOR TRAFFIC ST	ACING			2660	540R-1-RS	COOK	31	25
		FUR INAFFIC 31	AGING				TC-16	CONTRACT	NO.60	649
SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA.	- TO	STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED. A	ID 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 () 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.

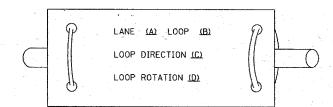
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD
INFORMATION SIGN
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO 5

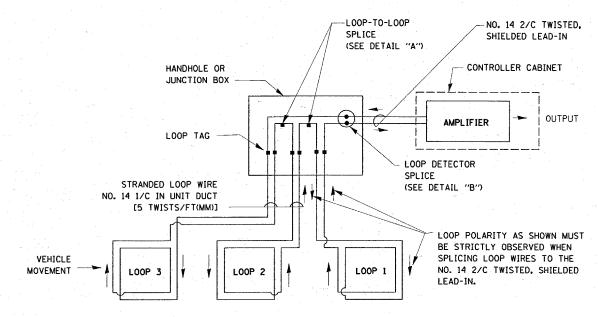
LOOP DETECTOR NOTES

- 1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- 2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- 3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- 4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- 5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- 6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- 7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT I SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

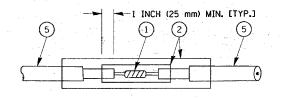


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

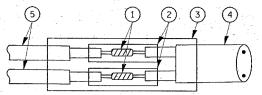


DETECTOR LOOP WIRING SCHEMATIC

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



DETAIL "A" LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- 1) WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- (2) WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

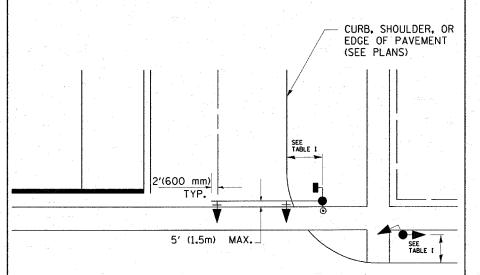
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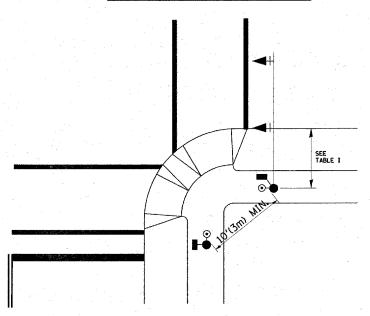
		DISTRICT ONE		RTE.	SECTION	COUNTY	TOTAL SHE SHEETS NO
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ŀ					TS05	CONTRACT	NO. 6064
l	SCALE: NONE SHEET	NO. 1 OF 4 SHEETS STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. A	ID PROJECT	

TRAFFIC SIGNAL MAST ARM AND POST

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



PEDESTRIAN SIGNAL PUSHBUTTON



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

NOTES:

 AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION. EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

- A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
- B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
- C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
- E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- 2. PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- 3. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- 4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

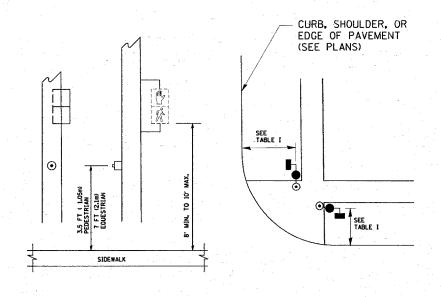


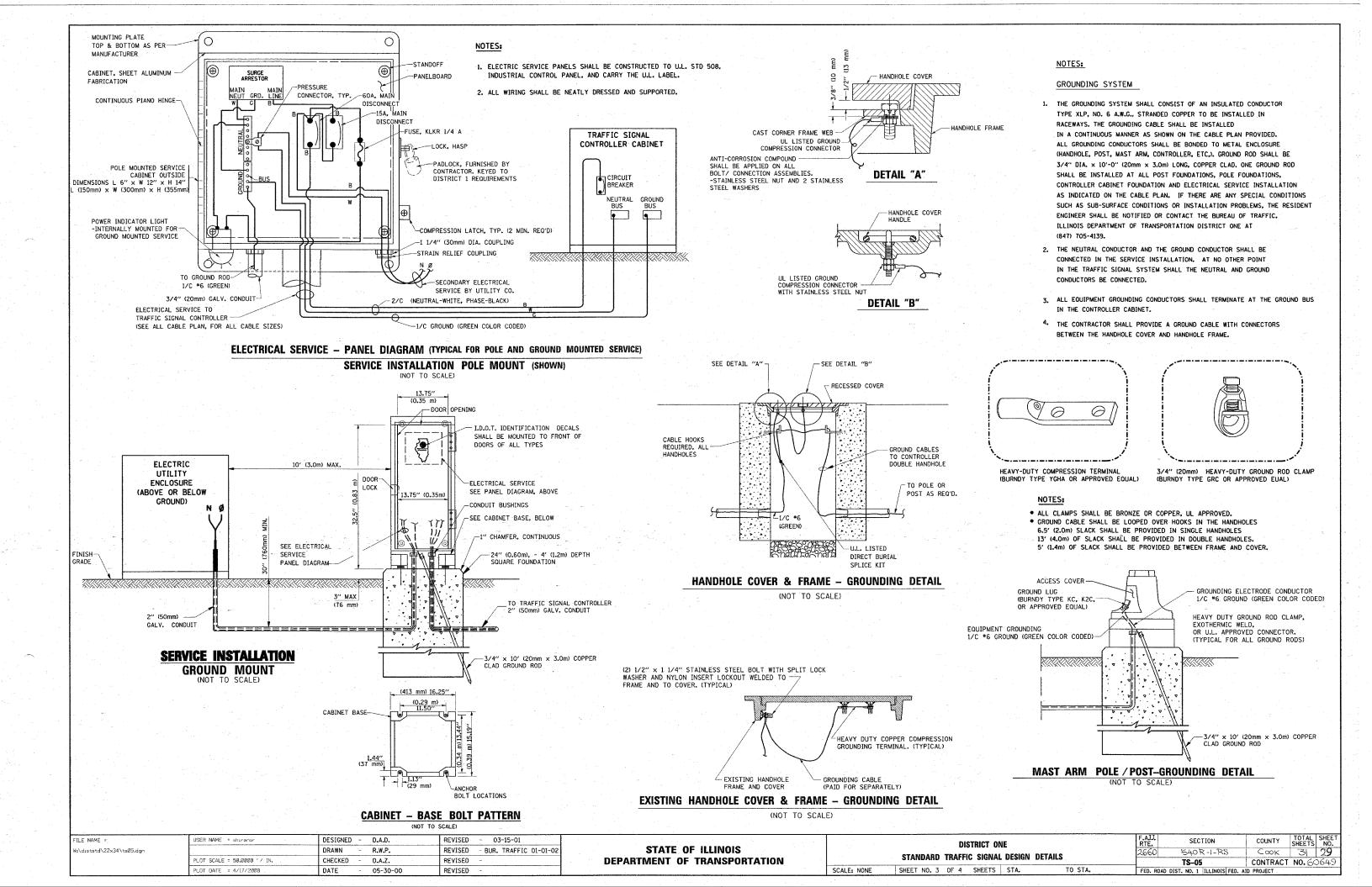
TABLE I

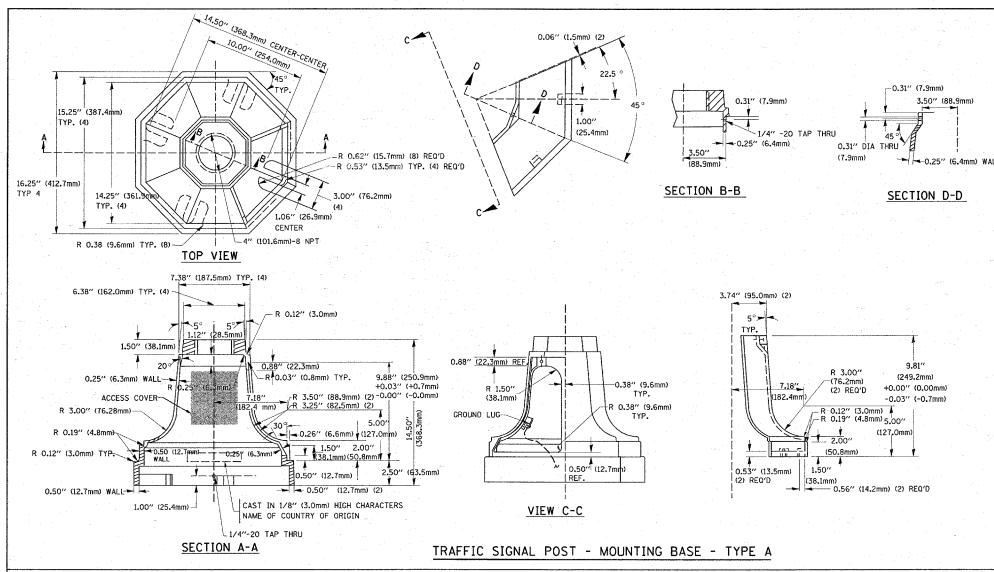
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM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

FILE NAME =	USER NAME = shiranir	DESIGNED - D.A.D.	REVISED - BUR. TRAFFIC 01-01-02
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	S
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	2660	540R-1-RS	C ∞ K	31	1
		TS-05		NO.60	10.606
SCALE: NONE SHEET NO. 2 OF 4 SHEETS STA. TO STA.	FED. ROA	AD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		





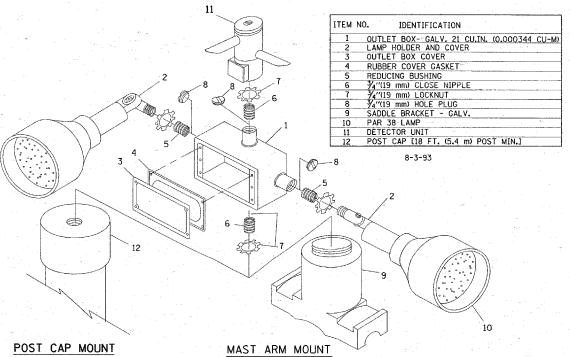
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D.A.D.

R.W.P.

D.A.Z.

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DATE

CHECKED

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

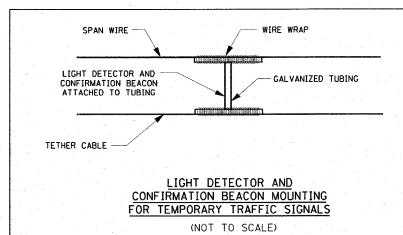
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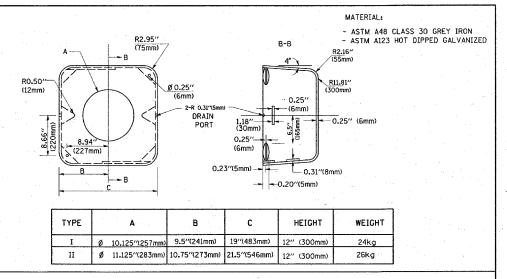
NO IES:

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

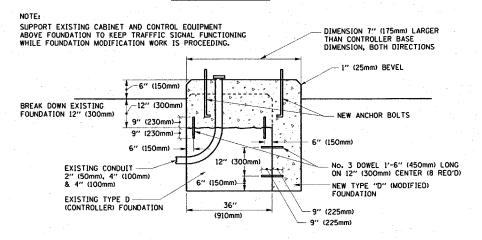


SCALE: NONE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

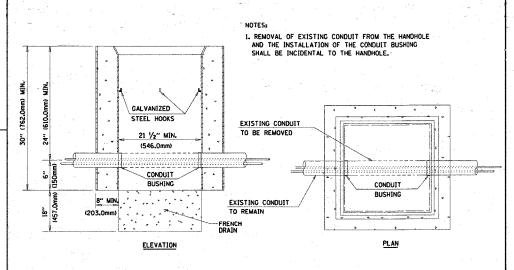


SHROUD DETAIL



MODIFY EXISTING TYPE "D" FOUNDATION

(NOT TO SCALE)

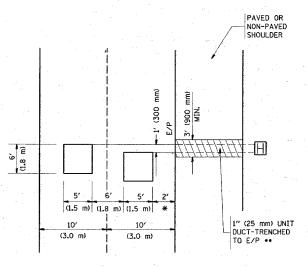


DETAIL

HANDHOLE TO INTERCEPT EXISTING CONDUIT

LOOPS NEXT TO SHOULDERS

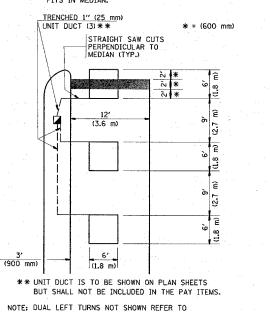
PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.



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

(PROTECTED / PERMITTED LEFT TURN PHASING)

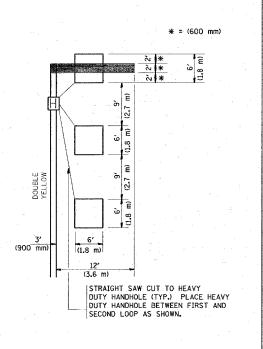
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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

(PROTECTED / PERMITTED LEFT TURN PHASING)



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

SCALE: NONE

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

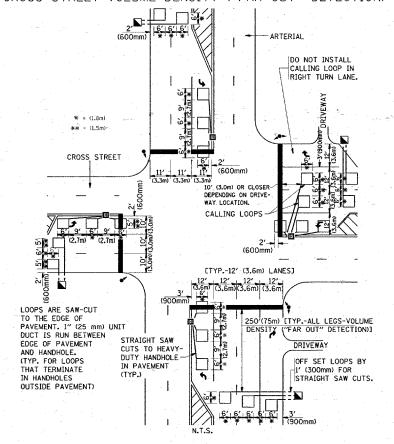
* = (600 mm)

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

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

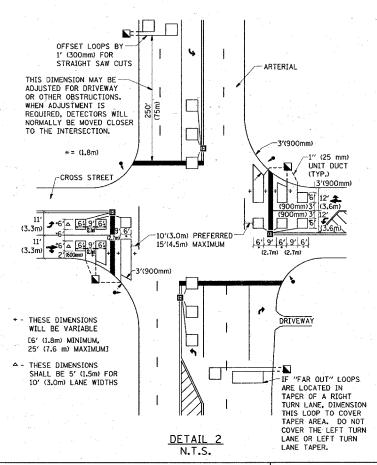


DETAIL 1

JSER NAME = shiranir

PLOT DATE = 4/17/2008

PLOT SCALE = 50.0000 1/ IN.



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 SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF <u>ALL</u> DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (I.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

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

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

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

NOTE:

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

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

DESIGNED REVISED DRAWN REVISED CHECKED R.K.F. REVISED REVISED DATE REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	DIS	TRIC	T	1 -	DETECTOR LOO			OP INSTALLATION			
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