

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1300	09-00172-00-RS	COOK	II	1
		ILLINOIS	CONTRACT NO. 63190	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**PLANS FOR PROPOSED**  
**FEDERAL AID HIGHWAY**

FAU ROUTE 1300 (CENTRAL ROAD)  
HUBER LANE TO HARLEM AVENUE  
RESURFACING  
SECTION NO: 09-00172-00-RS  
PROJECT: ARA-903(326)  
VILLAGE OF GLENVIEW  
COOK COUNTY  
C-91-635-09



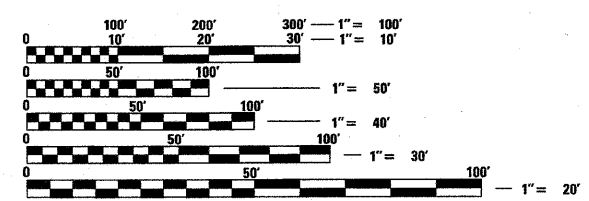
**SHEET INDEX**

1. TITLE SHEET
2. GENERAL NOTES, HIGHWAY STANDARDS AND SUMMARY OF QUANTITIES
3. EXISTING AND PROPOSED TYPICAL SECTIONS
4. IMPROVEMENT PLAN STA. 1+00 - 16+00
5. IMPROVEMENT PLAN STA. 16+00 - 31+00
6. IMPROVEMENT PLAN STA. 31+00 - 46+00
7. IMPROVEMENT PLAN STA. 46+00 - 61+00
8. IMPROVEMENT PLAN STA. 61+00 - 76+00
9. DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING
10. CONSTRUCTION DETAILS
11. CONSTRUCTION DETAILS

TRAFFIC DATA  
ADT:  
CENTRAL ROAD - 12,200

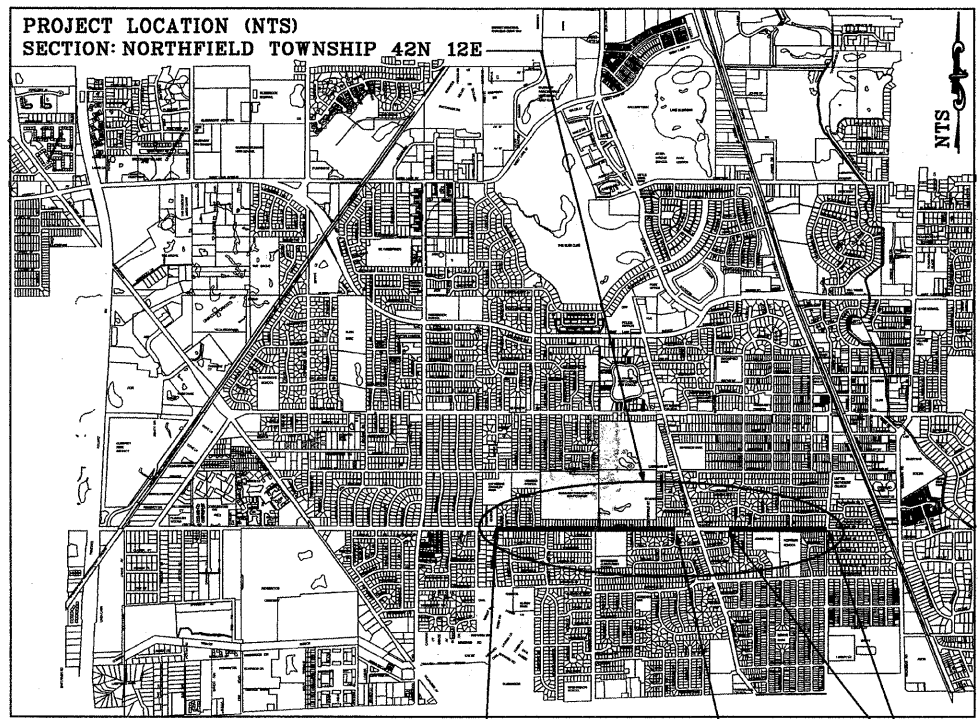
POSTED SPEED  
35 MPH

FUNCTIONAL CLASSIFICATION - COLLECTOR



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 NO: ARA-903(326)  
FAU ROUTE 1300 CENTRAL RD.  
BEGIN RESURFACING STA. 2+98.13

PAVEMENT OMISSION  
STA. 40+08.24 TO STA. 54+40.87

END RESURFACING  
IMPROVEMENTS  
STA. 76+57.64

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

APPROVED *May 22 2009*  
*[Signature]*  
VILLAGE OF GLENVIEW - VILLAGE ENGINEER

APPROVED *May 29 2009*  
*[Signature]*  
DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREETS

RELEASED FOR BID *MAY 29, 2009*  
BASED ON LIMITED REVIEW

*[Signature]*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

**CONTRACT NO. 63190**

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GROSS LENGTH = 7360 FT. = 1.39 MILES  
OMISSION LENGTH = 1433 FT. = 0.27 MILE  
NET LENGTH = 5927 FT. = 1.2 MILE

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

ASSOCIATE FIELD ENGINEER: KEVIN STALLWORTH (847) 705-4169

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISION INCLUDED IN THE CONTRACT DOCUMENTS AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT TO THE ENGINEER BEFORE DOING ANY WORK; OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, SPECIALS PROVISIONS, STANDARD SPECIFICATIONS AND/OR DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF WORK AFFECTED BY OMISSION OR DISCREPANCIES, FAILING TO SECURE SUCH INSTRUCTIONS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE MEANING OF THE CONSTRUCTION PLANS AND/OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THE PROJECT.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL 'JULIE' (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION AT 8-1-1 OR (800) 892-0123 (48 HOUR NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER OR VILLAGE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH STANDARD SPECIFICATIONS, IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY, THE VILLAGE OF GLENVIEW CANNOT BE HELD RESPONSIBLE AND CHARGED BY THE CONTRACTOR FOR ANY TIME DELAYS.
- THE LOCATION OF EXISTING DRAINAGE STRUCTURES AND ANY OTHER PUBLIC UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. STORM SEWER FIELD REPORTS WILL BE PROVIDED TO THE AWARDED CONTRACTOR.
- THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTION MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION.
- THE CONTRACTOR SHALL ENSURE THAT ALL WATER SYSTEM VALVE, VALVE VAULTS, AND SANITARY SEWER MANHOLES REMAIN READILY ACCESSIBLE TO THE VILLAGE FOR EMERGENCY OPERATIONS. THE LOCATION OF ALL WATER AND SANITARY FACILITIES SHALL BE MARKED AND READILY VISIBLE AT ALL TIMES.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY, PRIOR TO ACCEPTANCE OF THE IMPROVEMENT. ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE OR VILLAGE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT OR VILLAGE.
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) AS SHOWN ON THE PLANS IN ACCORDANCE WITH THE 'BUTT JOINT AND HMA TAPER DETAILS' SHEET INCLUDED IN THE PLANS UNLESS OTHERWISE SPECIFIED BY THE ENGINEER.
- EXISTING PAVEMENT AND DRIVEWAY PAVEMENT REMAIN IN PLACE SHALL BE SAW CUT FULL DEPTH TO PROVIDE A NEAT VERTICAL FACE BETWEEN THE PROPOSED AND EXISTING AND WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY RESIDENTS AND THE VILLAGE WHEN ACCESS TO THEIR DRIVEWAYS WILL BE TEMPORARILY CLOSED DUE TO DRIVEWAY REPLACEMENT. THE CONTRACTOR SHALL DISTRIBUTE NOTICES TO THE RESIDENTS. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES.
- THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL SUCH SIGNS THAT INTERFERE WITH CONSTRUCTION OPERATIONS. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING AND MUST BE ERRECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO THE TRAFFIC FOR WHICH IS INTENDED. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- QUANTITIES FOR TYPE D PATCHING AND CURB AND GUTTER REMOVAL AND REPLACEMENT AS WELL AS SIDEWALK REMOVAL AND REPLACEMENT SHALL NOT EXCEED THOSE PROVIDED IN THE SUMMARY OF QUANTITIES UNLESS APPROVED BY THE ENGINEER. LOCATIONS OF CLASS D PATCHING, COMBINATION OF CURB AND GUTTER REMOVAL AND REPLACEMENT, AND SIDEWALK REMOVAL AND REPLACEMENT TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE LOCATION OF EXISTING DETECTOR LOOPS AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION TO BE DETERMINED IN THE FIELD. LOCATIONS OF THE PROPOSED DETECTOR LOOPS SHALL BE DETERMINED IN ACCORDANCE TO DISTRICT I- 'DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING' AND APPROVED IN THE FIELD BY THE ENGINEER PRIOR TO FINAL INSTALLATION.
- SEE TRAFFIC CONTROL HIGHWAY STANDARDS CONCERNING TRAFFIC CONTROL AND PROTECTION.

VILLAGE OF GLENVIEW PUBLIC WORKS DEPARTMENT - (847) 657-3030  
 VILLAGE OF GLENVIEW CAPITAL PROJECTS DEPARTMENT - (847) 998-9500

HIGHWAY STANDARDS

- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 424001-05 CURB RAMPS FOR SIDEWALKS
- 442201-03 CLASS C AND D PATCHES
- 701301-03 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS- DAY ONLY
- 701501-05 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701801-04 LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
- 701901-01 TRAFFIC CONTROL DEVICES
- 780001-02 TYPICAL PAVEMENT MARKINGS
- 886001-01 DETECTOR LOOP INSTALLATION
- 886006-01 TYPICAL LAYOUTS FOR DETECTION LOOPS

SUMMARY OF QUANTITIES

ITEM #	IDOT PAY ITEM CODE	PAY ITEM	UNIT	TOTAL QUANTITY
1	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	525
2	44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2.5"	SQ YD	20,155
3	40300100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	7,370
4	40600300	AGREEGATE (PRIME COAT)	TON	32
5	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	2,825
6	40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	157
7	44002210	HOT-MIX REMOVAL OVER PATCHES, 2.5"	SQ YD	905
8	44201749	CLASS D PATCHES, TYPE I, 9"	SQ YD	50
9	44201753	CLASS D PATCHES, TYPE II, 9"	SQ YD	805
10	44201757	CLASS D PATCHES, TYPE III, 9"	SQ YD	50
11	60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	56
12	XX009087	FRAMES AND LIDS TO BE REPLACED (SPECIAL)	EACH	17
13	60262800	INLETS TO BE RECONSTRUCTED (SPECIAL)	EACH	4
14	67100100	MOBILIZATION	L SUM	1
15	XX006806	HMA DRIVEWAY PAVEMENT	SQ YD	220
16	42400800	DETECTABLE WARNINGS	SQ FT	126
17	44004610	SIDEWALK REMOVAL & REPLACEMENT (SPECIAL)	SQ FT	525
18	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	650
19	25200110	SODDING - SALT TOLERANT	SQ YD	650
20	44001700	Combination Concrete CURB & GUTTER REMOVAL AND REPLACEMENT	FOOT	2,985
21	88600600 *	DETECTOR LOOP REPLACEMENT	FOOT	576
22	78000100*	THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS	SQ FT	110
23	78000200*	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4,404
24	78000400*	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	877
25	78000600*	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	645
26	78000650*	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	226
27	70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1
28	70300210	TEMPORARY PAVEMENT MARKINGS - LETTERS & SYMBOLS	SQ FT	110
29	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	4,404
30	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	877
31	70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	645
32	70300280	TEMPORARY MARKING - LINE 24"	FOOT	226
33	X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	130

\* SPECIALTY ITEMS

EXISTING	PROPOSED	EXISTING	PROPOSED

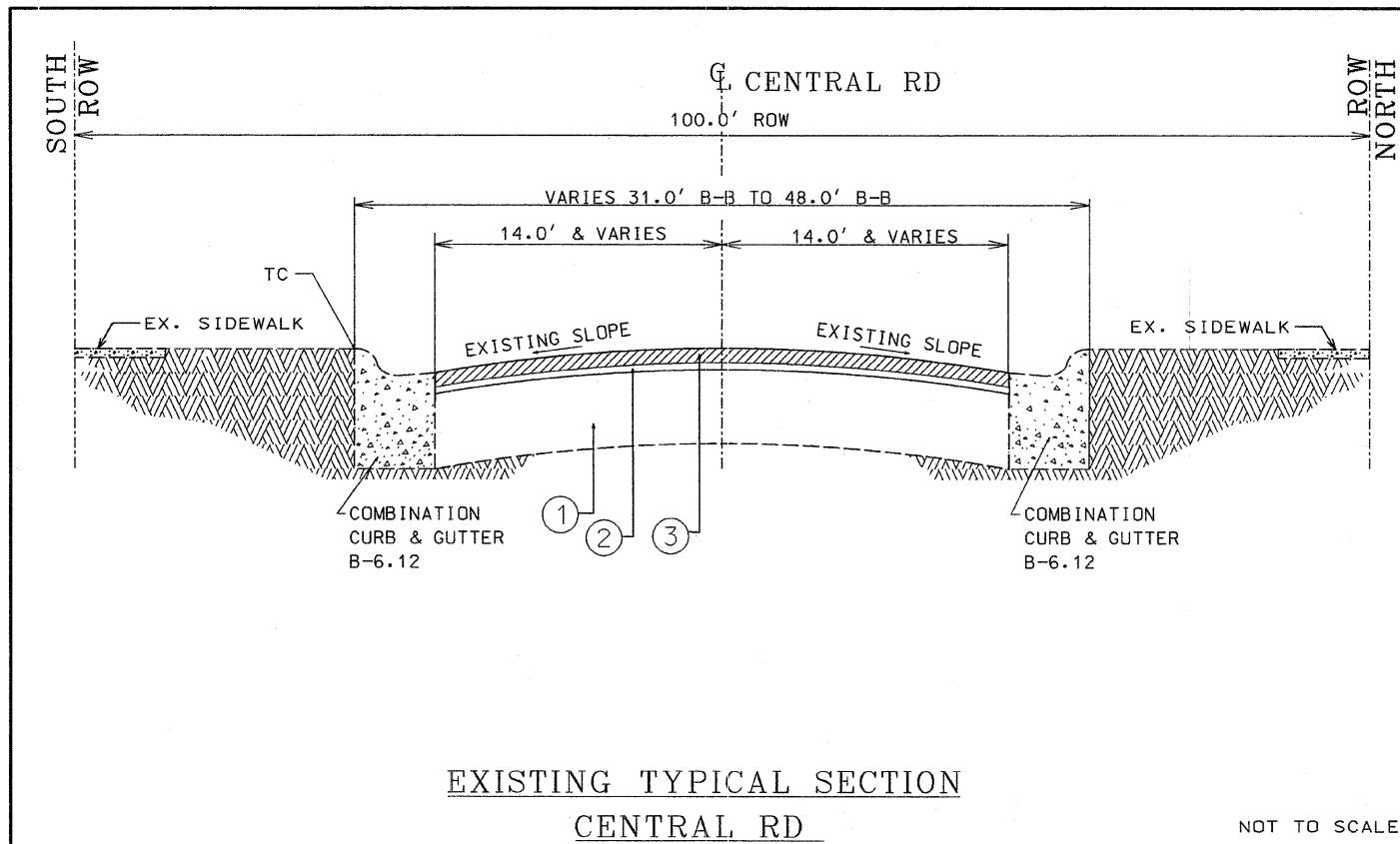
NOTE:  
 IDOT STANDARD 000001 (LATEST EDITION) SHALL BE USED FOR STANDARD SYMBOLS & ABBREVIATIONS NOT INDICATED ON THIS SHEET  
 \* APPROXIMATE LOCATION ONLY. THE EXACT LOCATIONS TO BE FIELD DETERMINED.

REVISED:01-01-08

LEGEND & ABBREVIATIONS

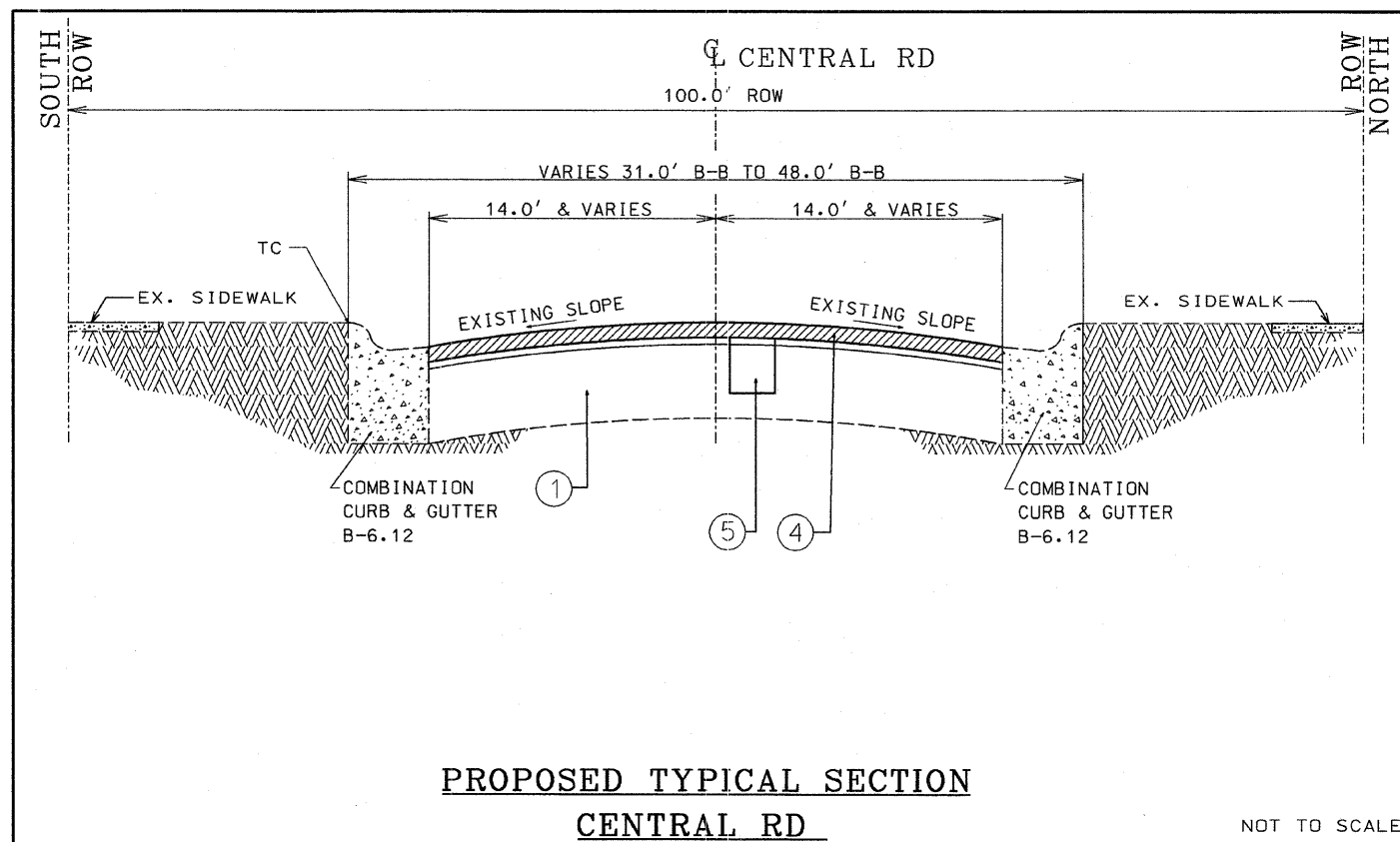
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FILE NAME =	USER NAME =	DESIGNED - DJG	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES, HIGHWAY STANDARDS AND SUMMARY OF QUANTITIES</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILE:	PLOT SCALE =	CHECKED - LVA	REVISED -			1300	09-00172-00-RS	COOK	11	2
	PLOT DATE =	DATE - 2-23-09	REVISED -			CONTRACT NO. 63190				
					SCALE: NONE	SHEET NO. 2 OF 11 SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT



**Legend**

- ① EXISTING HOT-MIX ASPHALT BASE COURSE - 8"
- ② EXISTING HOT-MIX ASPHALT SURFACE - 3"
- ③ HOT-MIX ASPHALT SURFACE REMOVAL - 2.5"
- ④ PROPOSED HOT-MIX ASPHALT SURFACE COURSE MIX "D" N70 - 2.5"
- ⑤ CLASS "D" PATCHES - 9"



**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

	MIXTURE USE	AC TYPE	AIR VOIDS (%)
ROADWAY & DRIVEWAY	HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N70 2.5"	PG 64-22	4% @ 70 GYR
PATCHES	CLASS D PATCHES, (BINDER 1L-19 MM), 9"	PG 64-22*	4% @ 70 GYR
	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES, (BINDER 1L-19 MM)	PG 64-22*	4% @ 70 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT MIX ASPHALT SURFACE QUANTITIES IS 112 lbs / SY / IN.

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

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

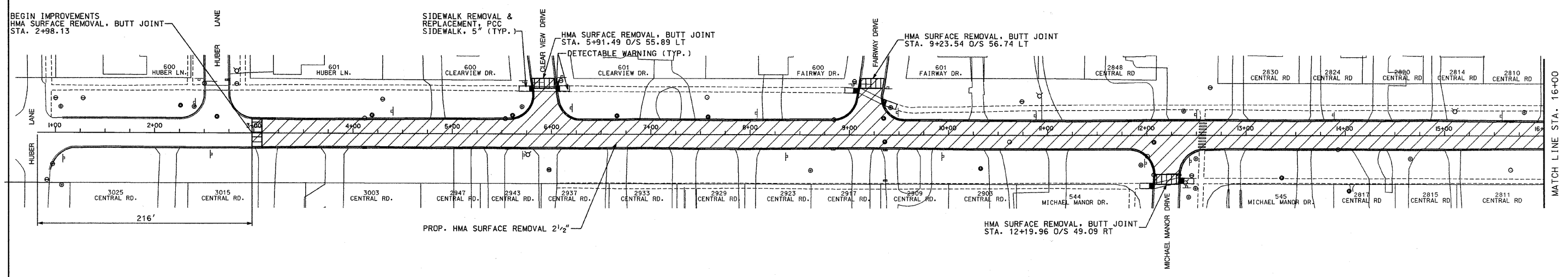
**EXISTING AND PROPOSED  
TYPICAL SECTIONS**

F.A. -	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
RTE. 1300	09-0072-00-RS	COOK	11	3
CONTRACT NO. 63190				

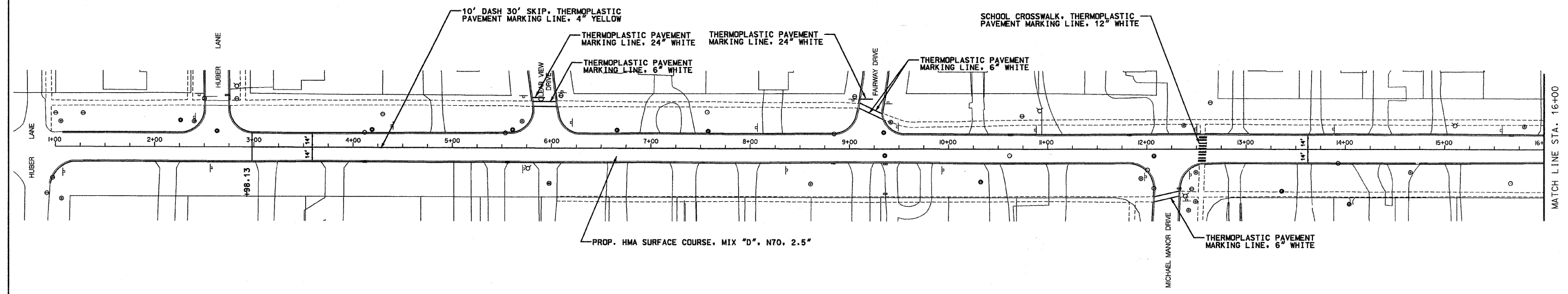
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ILLINOIS FED. AID PROJECT

EXISTING / REMOVAL PLAN



PAVEMENT MARKING PLAN



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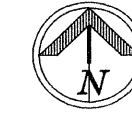
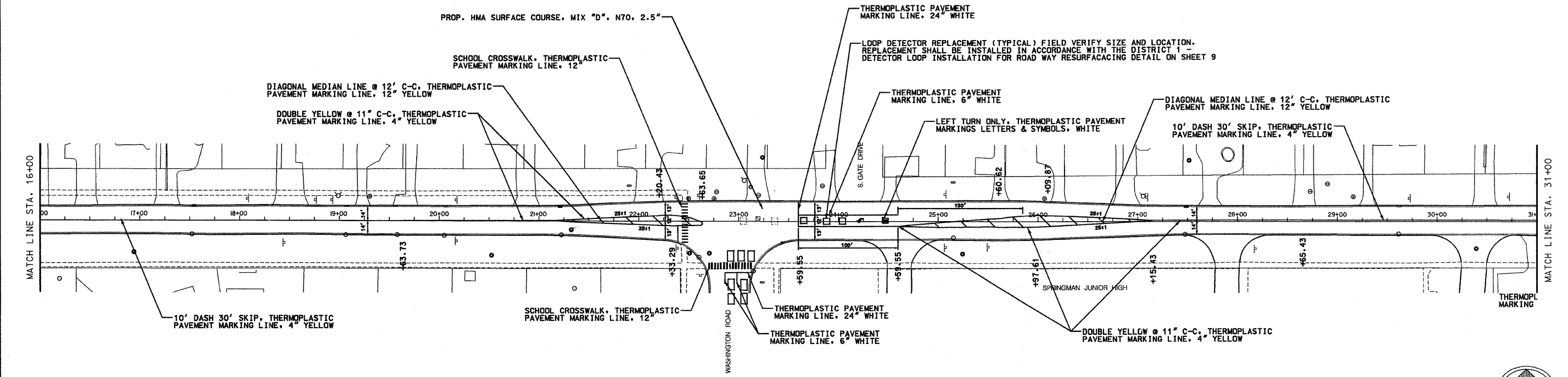
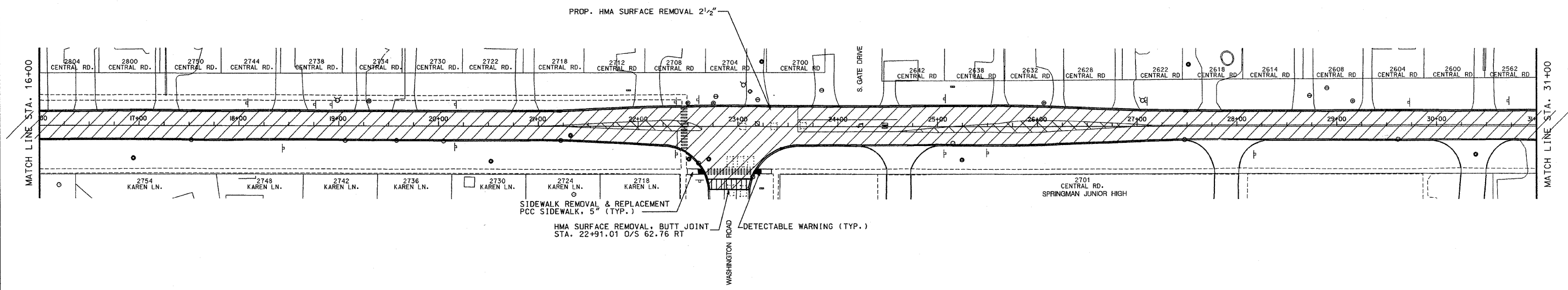
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IMPROVEMENT PLAN**

SCALE: 1" = 50'    SHEET NO. 4 OF 11 SHEETS    STA. 1+00 TO STA. 16+00

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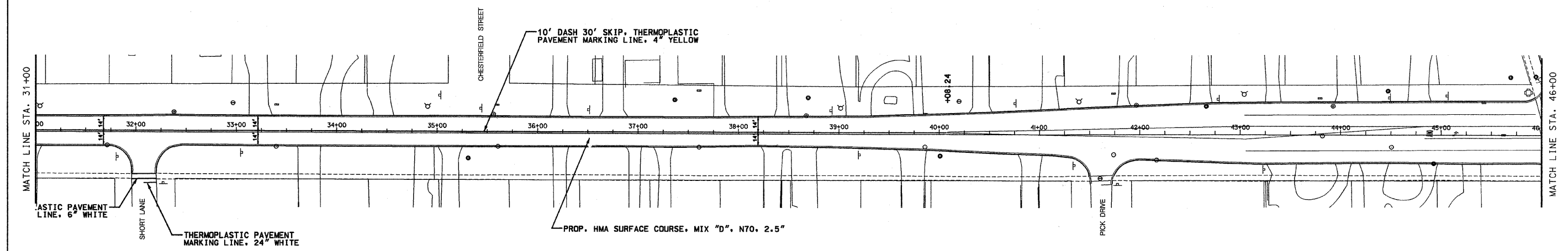
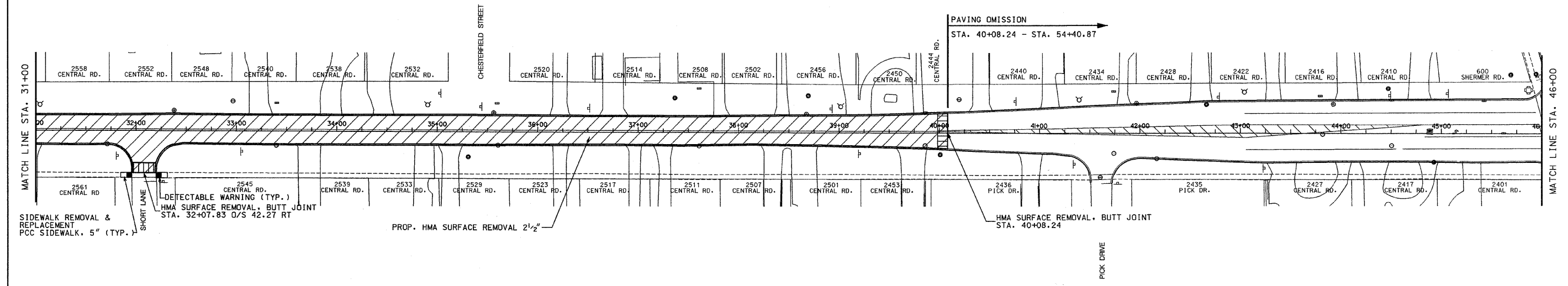
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IMPROVEMENT PLAN**

SCALE: 1" = 50'    SHEET NO. 5 OF 11 SHEETS    STA. 16+00 TO STA. 31+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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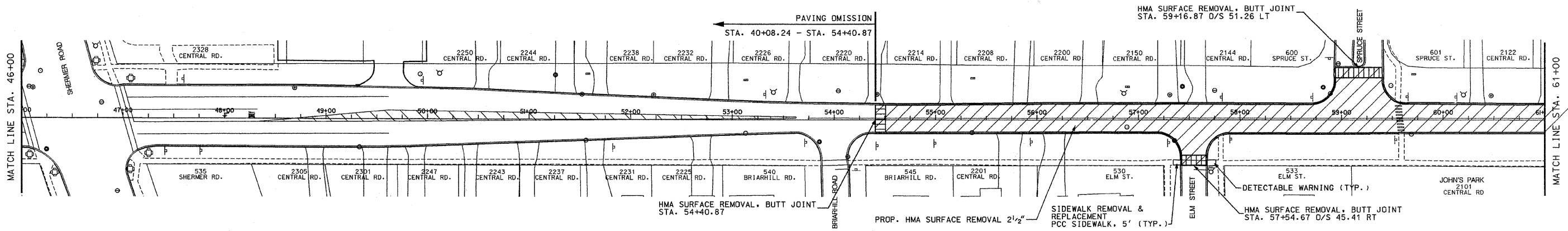
**STATE OF ILLINOIS  
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**IMPROVEMENT PLAN**

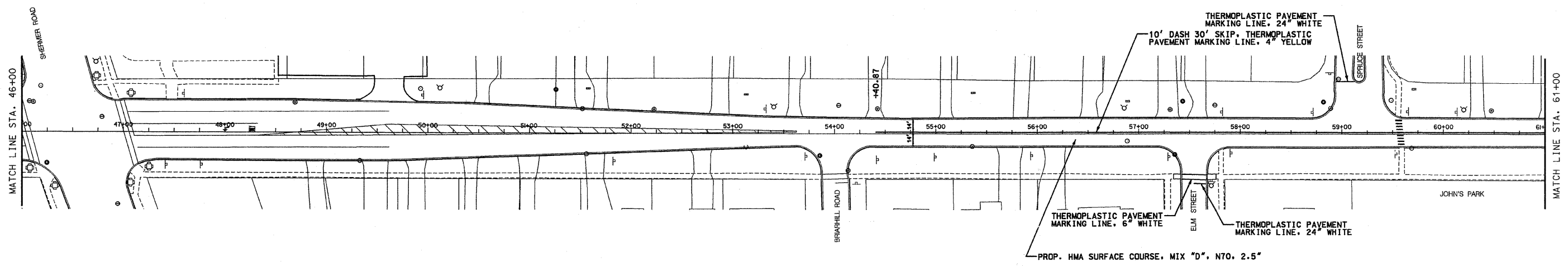
SCALE: 1" = 50'    SHEET NO. 6 OF 11 SHEETS    STA. 31+00 TO STA. 46+00

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ILLINOIS FEDERAL AID PROJECT				

EXISTING / REMOVAL PLAN



PAVEMENT MARKING PLAN



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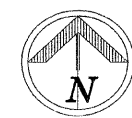
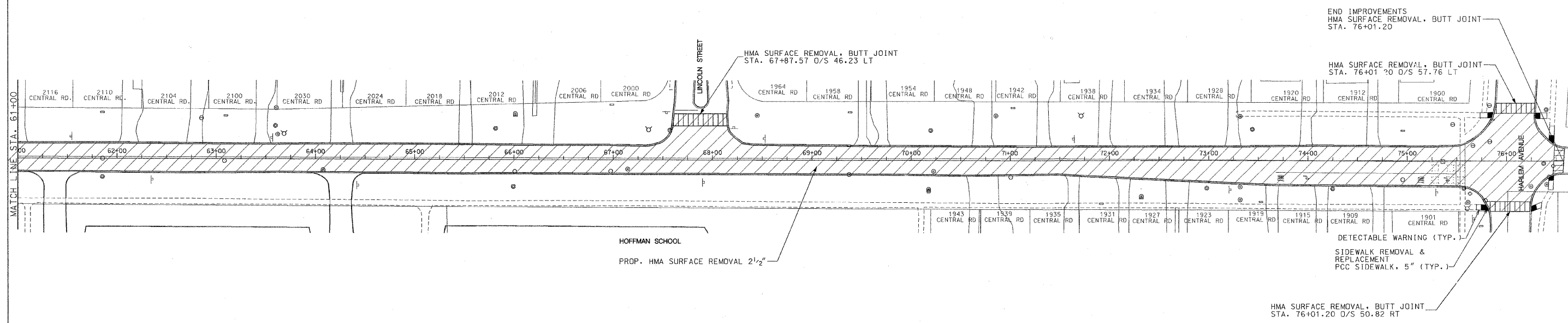
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**IMPROVEMENT PLAN**

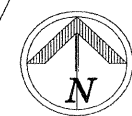
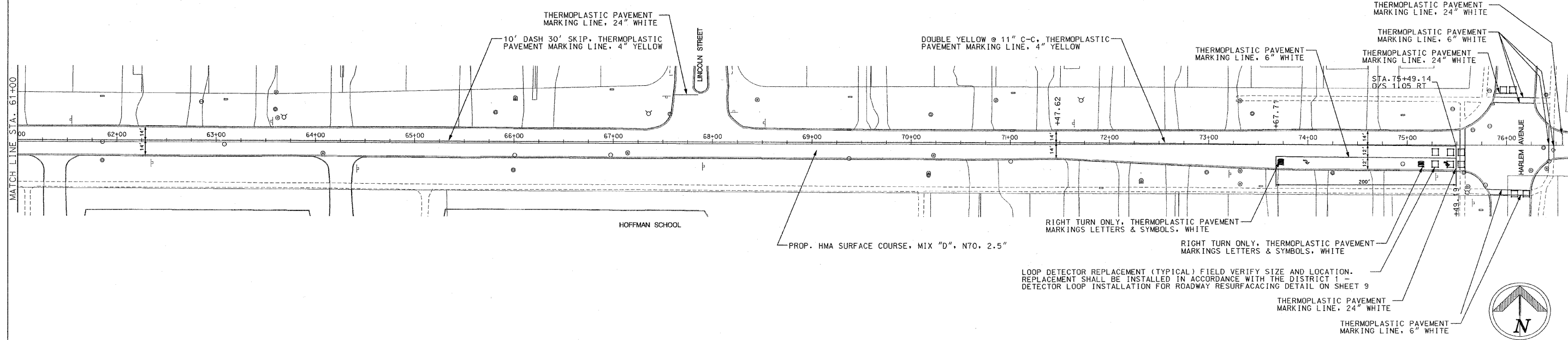
SCALE: 1" = 50'    SHEET NO. 7 OF 11 SHEETS    STA. 46+00 TO STA. 61+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1300	09-00172-00-RS	COOK	11	7
CONTRACT NO. 63190				
ILLINOIS FED. AID PROJECT				

EXISTING / REMOVAL PLAN



PAVEMENT MARKING PLAN



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FILE NAME =	USER NAME =	DESIGNED - DJG	REVISED -
FILE		DRAWN - DJG	REVISED -
	PLOT SCALE =	CHECKED - LVA	REVISED -
	PLOT DATE =	DATE - 2-23-09	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**IMPROVEMENT PLAN**

SCALE: 1" = 50' SHEET NO. 8 OF 11 SHEETS STA. 61+00 TO STA. 76+57.64

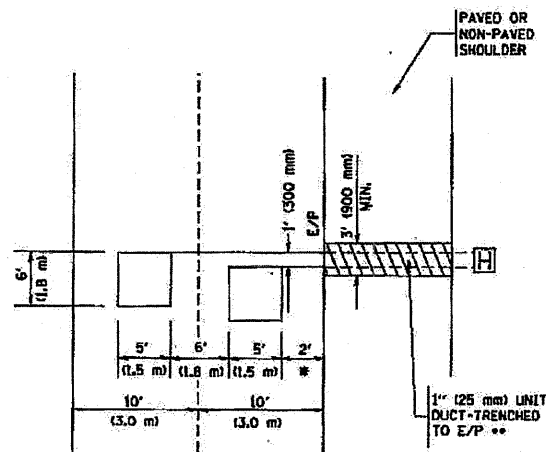
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1300	09-00172-00-RS	COOK	11	8
CONTRACT NO. 63190				

ILLINOIS FED. AID PROJECT



**LOOPS NEXT TO SHOULDERS**

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

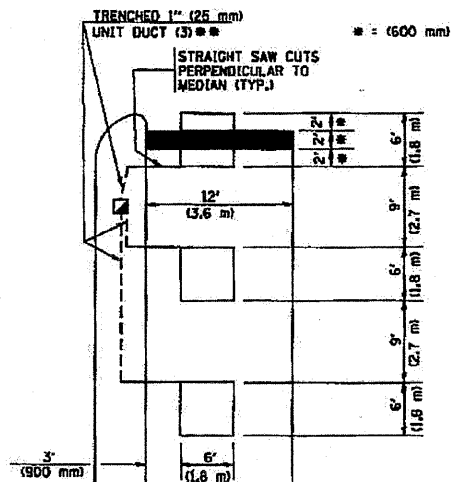


• = (600 mm)

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

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

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

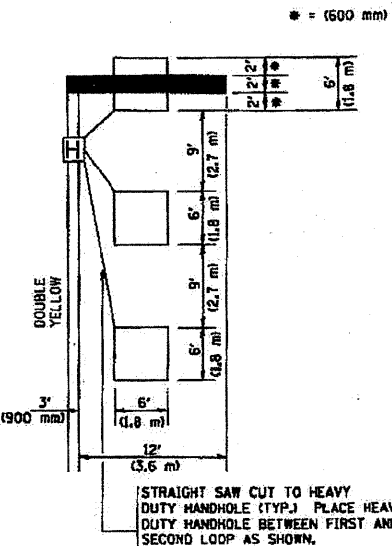


• = (600 mm)

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

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

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



• = (600 mm)

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

**NOTES:**

**VEHICLES LOOP DETECTORS**

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

**PLACEMENT OF DETECTORS**

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

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

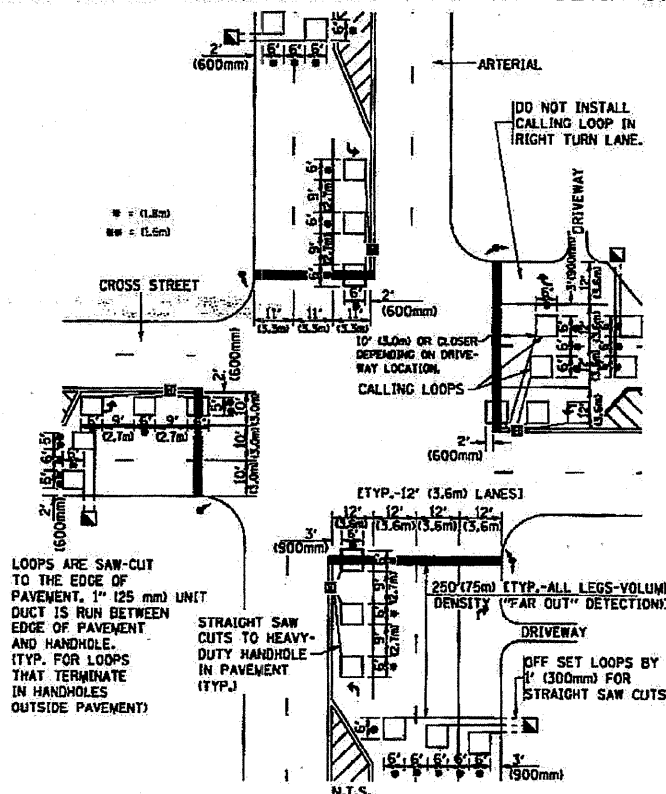
"FAR OUT" DETECTION REFERS TO LOCKING PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

**NOTE:**

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

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

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



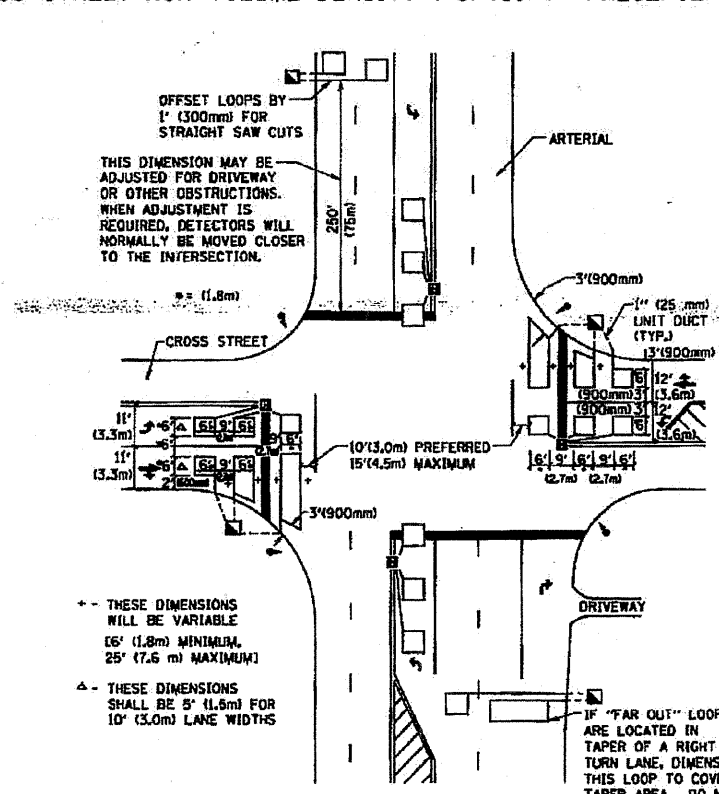
LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

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

OFF SET LOOPS BY 1' (300mm) FOR STRAIGHT SAW CUTS.

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

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



•• THESE DIMENSIONS WILL BE VARIABLE (6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM)

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

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

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

FILE NAME =	USER NAME = #USER#	DESIGNED - DJG	REVISED -
#FILE#		DRAWN - DJG	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - LVA	REVISED -
	PLOT DATE = #DATE#	DATE - 2-23-09	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

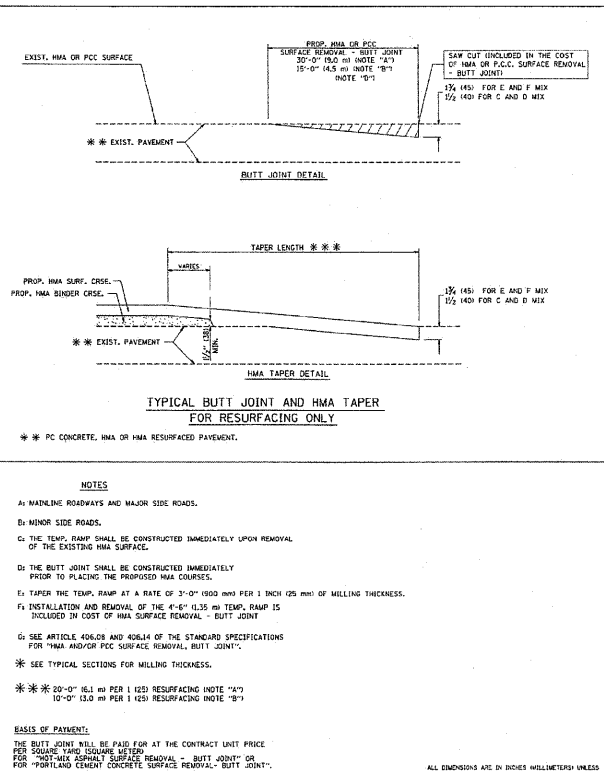
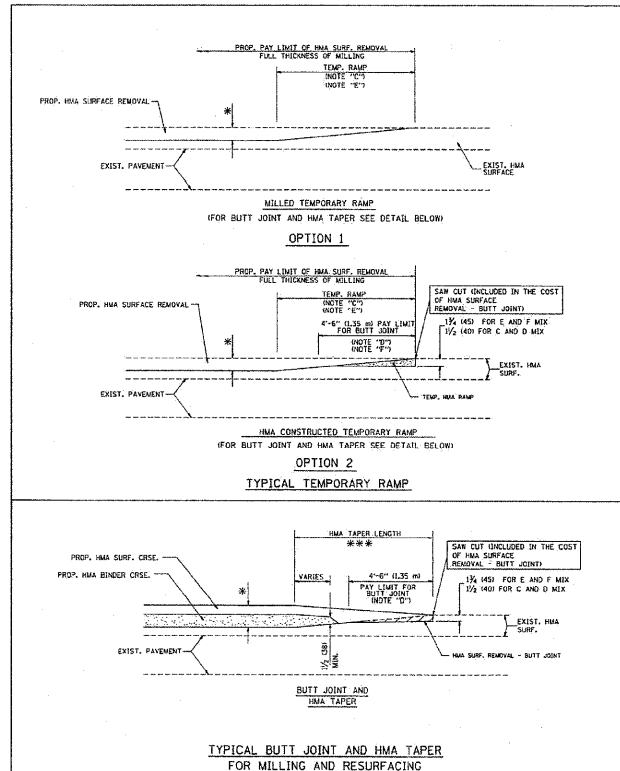
**DISTRICT 1 - DETECTOR LOOP INSTALLATION  
DETAILS FOR ROADWAY RESURFACING**

SCALE: NONE SHEET NO. 9 OF 11 SHEETS STA. TO STA.

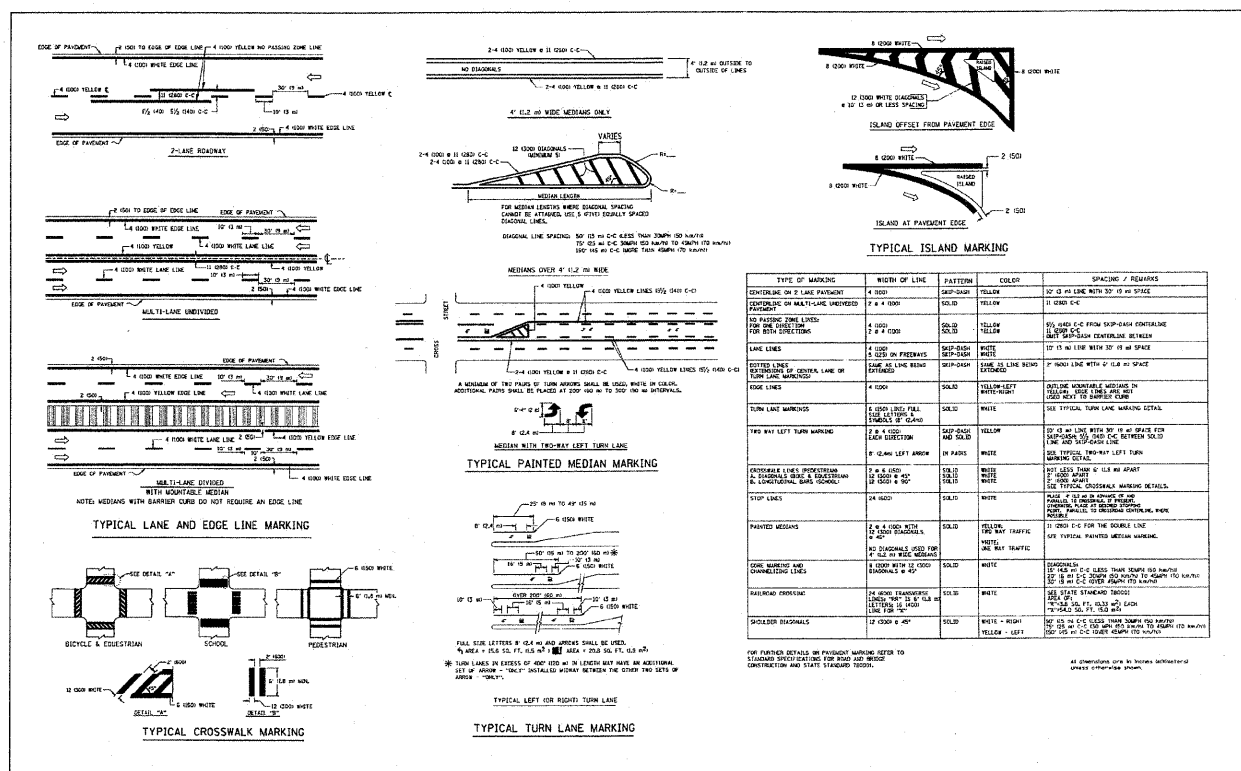
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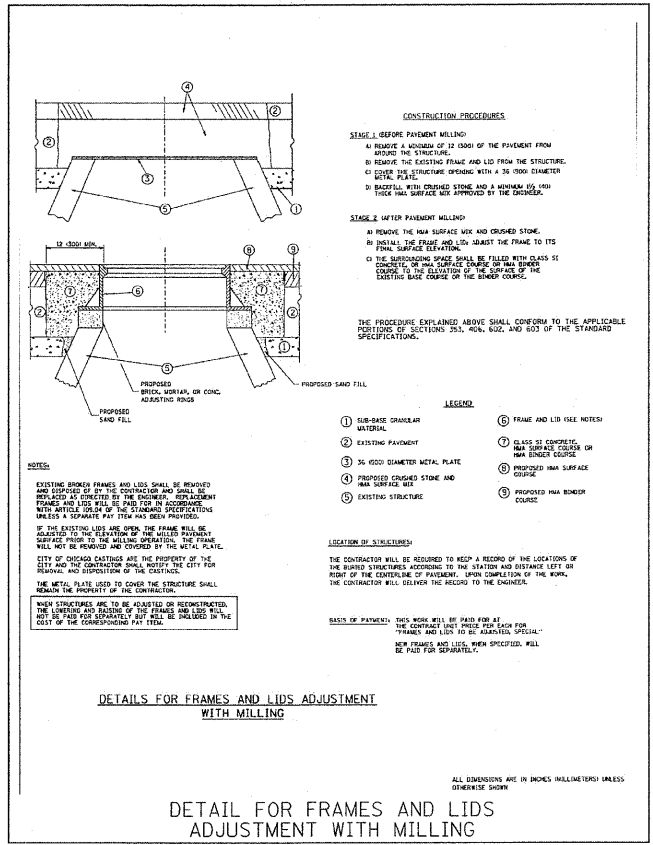
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1300	09-00172-00-RS	COOK	11	9
			CONTRACT NO. 63190	
ILLINOIS FED. AID PROJECT				



DESIGNED - DJG	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT AND HMA TAPER DETAILS	SCALE: NONE	SHEET NO. 10 OF 11 SHEETS	TO STA.	BRIDGE NO.	CONTRACT NO.
USER NAME = #USER#	DESIGNED - DJG	REVISIONS -	DESIGNED - DJG	REVISIONS -	REVISIONS -	REVISIONS -	REVISIONS -	REVISIONS -
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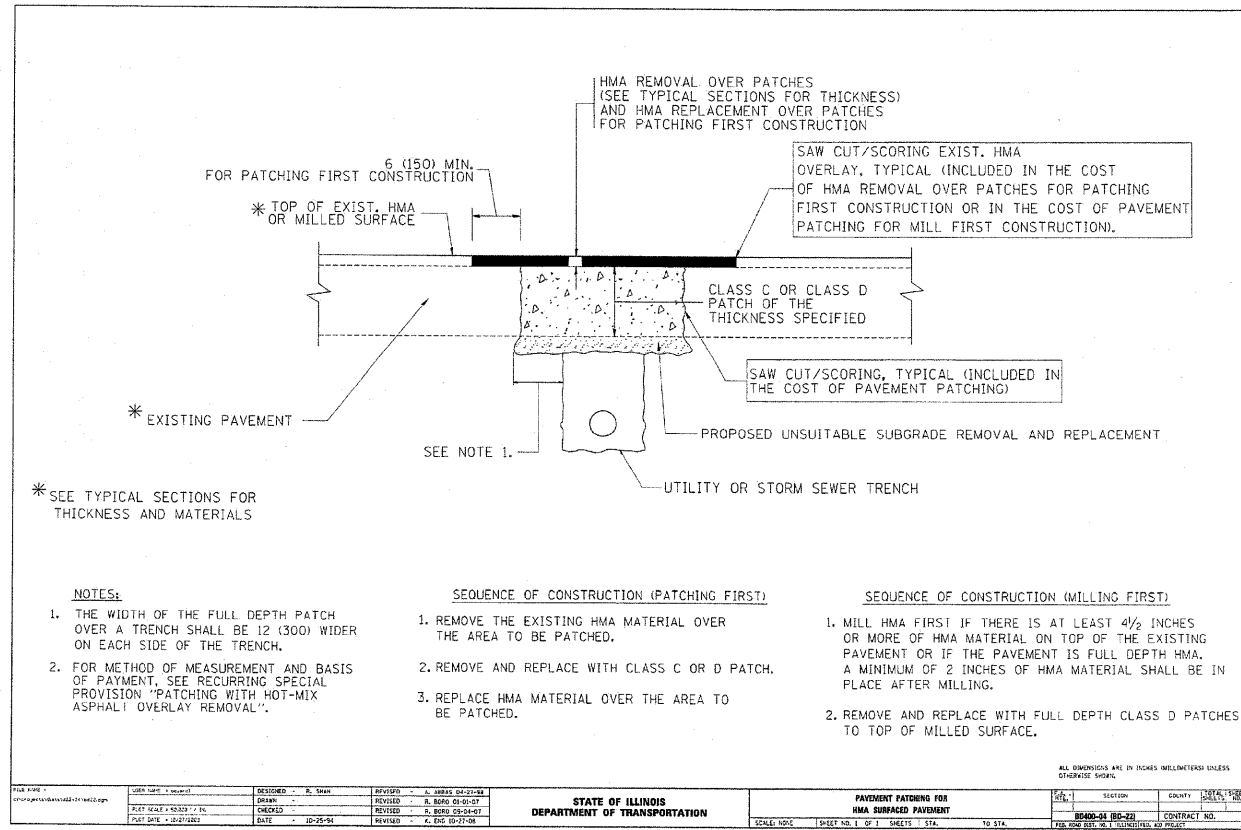
DESIGNED - EVERS	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS	SCALE: NONE	SHEET NO. 11 OF 11 SHEETS	TO STA.	BRIDGE NO.	CONTRACT NO.
USER NAME = #USER#	DESIGNED - EVERS	REVISIONS -	DESIGNED - EVERS	REVISIONS -	REVISIONS -	REVISIONS -	REVISIONS -	REVISIONS -
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FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED - DJG	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CONSTRUCTION DETAILS	SCALE: NONE	SHEET NO. 10 OF 11 SHEETS	TO STA.	F.A. RT. SECTION COUNTY TOTAL SHEETS SHEET NO.
		DESIGNED - DJG	REVISIONS -						1300 09-00172-00-RS COOK 11 10
		CHECKED - LVA	REVISIONS -						CONTRACT NO. 63190
		DATE - 2-23-09	REVISIONS -						ILLINOIS FED. AID PROJECT

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\*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".

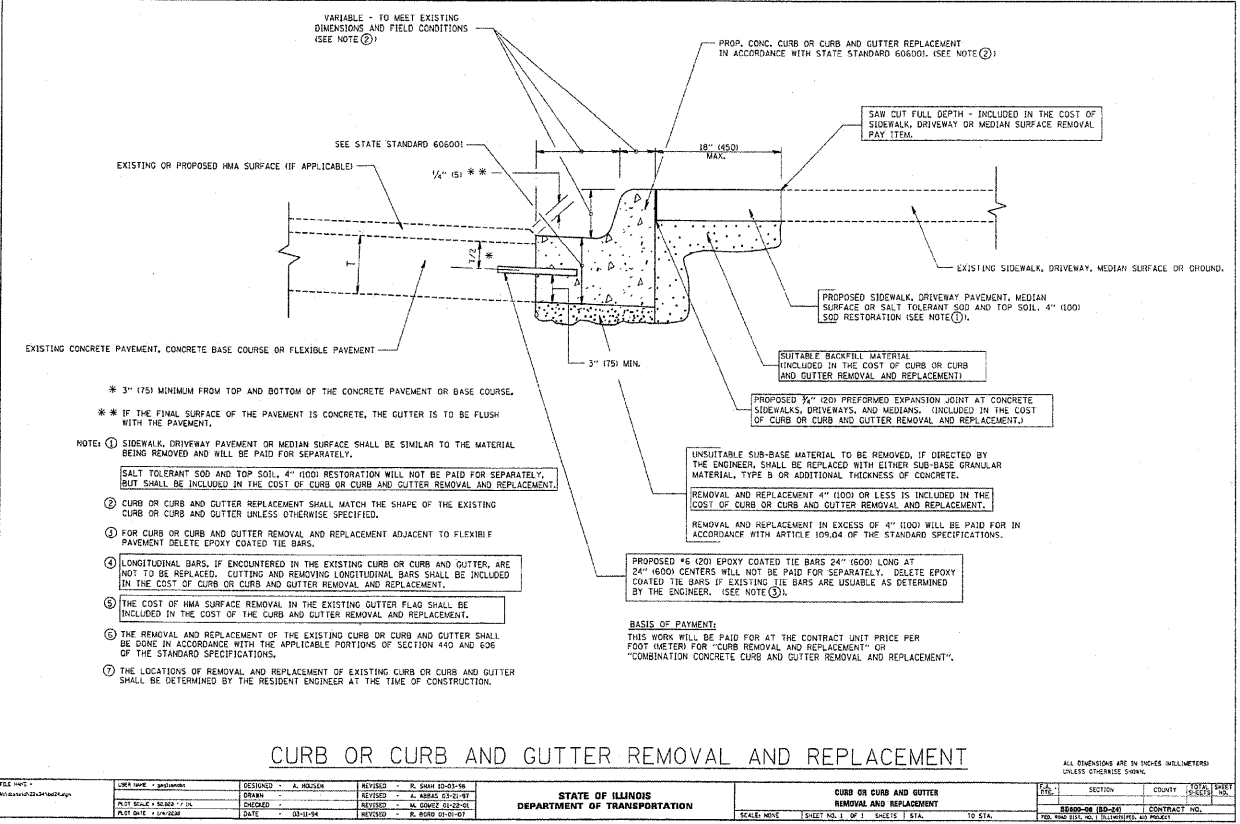
**SEQUENCE OF CONSTRUCTION (PATCHING FIRST)**

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.

DESIGNED - DJG	REVISIONS	DATE	BY
DRAWN - DJG	1	02-23-09	DJG
CHECKED - LVA	2		
DATE			



- NOTES:**
1. SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
  2. CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
  3. FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
  4. LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING GUTTER FLAG SHALL BE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
  5. 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.
  6. THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 410 AND 608 OF THE STANDARD SPECIFICATIONS.
  7. 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.

**CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT**

DESIGNED - DJG	REVISIONS	DATE	BY
DRAWN - DJG	1	02-23-09	DJG
CHECKED - LVA	2		
DATE			

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FILE NAME =	USER NAME = #USER#	DESIGNED - DJG	REVISIONS	DATE	BY	F.A. -	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#		DRAWN - DJG	1	02-23-09	DJG	1300	09-00172-00-RS	COOK	11	11
		CHECKED - LVA	2							
		DATE								

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CONSTRUCTION DETAILS**

SCALE: NONE SHEET NO. 11 OF 11 SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT