

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

**FAU ROUTE 2743 (GREENWOOD AVENUE)
SECTION 1316 RS-2
GOLF ROAD (IL 58) TO WEST LAKE AVENUE
RESURFACING**

**COOK COUNTY
C-91-375-02**

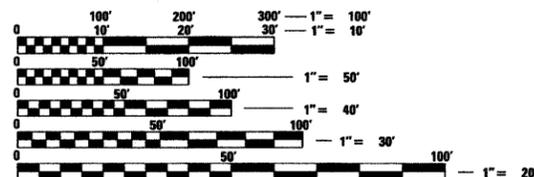
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2743	1316 RS-2	COOK	25	1
ILLINOIS			CONTRACT NO. 62548	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

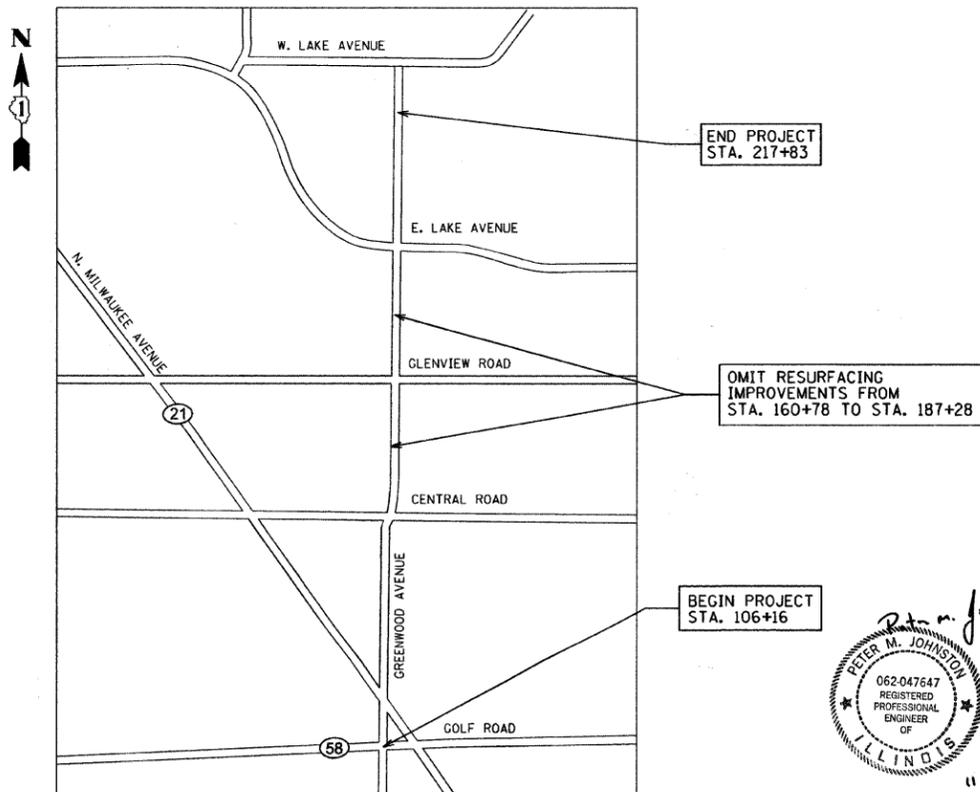
EXISTING ADT = 13,000 TO 15,000 (2007)
SPEED LIMIT = 35 MPH

THE IMPROVEMENT IS LOCATED WITHIN
THE CITY OF GLENVIEW



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



GROSS LENGTH = 11,167 FT. = 2.11 MILES
NET LENGTH = 8,517 FT. = 1.61 MILES

GRAEF 8501 W. Higgins Road; Suite 280
Chicago, Illinois 60631
(773) 399-0112

Peter M. Johnston 12-2-09
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
062-047647
11-30-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED DECEMBER 3, 2009
Diana M. O'Keefe DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
January 29, 2010
Scott E. Stoltz P.E. ENGINEER OF DESIGN AND ENVIRONMENT
January 29, 2010
Christine M. Reed DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

PROJECT ENGINEER: PETER JOHNSTON (GRAEF) 773-399-0012
PROJECT MANAGER: KEN ENG (IDOT) 847-705-4247

CONTRACT NO. 62548

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX, GENERAL NOTES AND HIGHWAY STANDARDS
3	SUMMARY OF QUANTITIES
4-5	TYPICAL SECTIONS
6-9	ROADWAY AND PAVEMENT MARKING PLANS
10-13	DETECTOR LOOP REPLACEMENT
14	FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD08)
15	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD22)
16	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD24)
17	BUTT JOINTS AND BITUMINOUS TAPER (BD32)
18	HMA TAPER AT EDGE OF P.C.C. PAVEMENT (BD33)
19	TRAFFIC CONTROL AND PROTECTION FOR SIDEROADS, INTERSECTIONS AND DRIVEWAYS (TC10)
20	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT (TC11)
21	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC13)
22	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC14)
23	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC16)
24	ARTERIAL ROAD INFORMATION SIGNING (TC22)
25	DETECTOR LOOP INSTALLATION DETAIL FOR ROADWAY RESURFACING (TS07)

HIGHWAY STANDARDS

STD. NO.	TITLE
442201-03	CLASS C AND D PATCHES
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
606306-03	CORRUGATED PC CONCRETE MEDIANS
701601-06	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-04	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-06	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-06	URBAN LANE CLOSURE, MULTILANE, INTERSECTION
701901-01	TRAFFIC CONTROL DEVICES
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 40 MM (1 1/2 INCHES) WHERE THE SPEED LIMIT IS 80 KM/H (45 MPH) OR LESS AND 25 MM (1 INCH) WHERE THE SPEED LIMIT IS GREATER THAN 80 KM/H (45 MPH). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 75 MM (3 INCHES) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- FOR PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS, REFER TO DISTRICT ONE TYPICAL MARKINGS FOR DETAILS NOT SHOWN.
- THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
- MATCH EXISTING PAVEMENT MARKINGS AT PROJECT LIMITS.
- THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, AT 847-715-8419 AT LEAST (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm)	4% @ 70 GYR
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL 4.75, N50	4% @ 50 GYR
CLASS D PATCHES (HMA BINDER IL 19mm)	4% @ 70 GYR
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL 19 mm) 4" (IN 2 LIFTS)	4% @ 70 GYR
PARTIAL DEPTH PATCHING 3"	4% @ 70 GYR

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

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.

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FILE NAME =	USER NAME = .USER.	DESIGNED - EF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GREENWOOD AVE. - GOLF ROAD (IL 58) TO WEST LAKE AVE. INDEX OF SHEETS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - EF	REVISED -		2743	1316 RS-2	COOK	25	2			
	PLOT SCALE = 50.0045' / IN.	CHECKED - RS	REVISED -		CONTRACT NO. 62548							
	PLOT DATE = 12/2/2009	DATE - 12/02/09	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	DESCRIPTION	UNIT	URBAN TOTAL QUANTITY 100% STATE	1000-2A STATE
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	26	26
40600300	AGGREGATE (PRIME COAT)	TON	131	131
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	49	49
40600895	CONSTRUCTING TEST STRIP	EACH	2	2
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1,103	1,103
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL-BUTT JOINT	SQ YD	355	355
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	324	324
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	2,749	2,749
42101300	PROTECTIVE COAT	SQ YD	850	850
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	30,009	30,009
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1,037	1,037
44002216	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4"	SQ YD	1,448	1,448
44003100	MEDIAN REMOVAL	SQ FT	4,540	4,540
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	750	750
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	305	305
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	215	215
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	1,336	1,336
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	687	687
60251740	CATCH BASINS TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	7	7
60260100	INLETS TO BE ADJUSTED	EACH	1	1
60624600	CORRUGATED MEDIAN	SQ FT	4,540	4,540
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	L SUM	1	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1

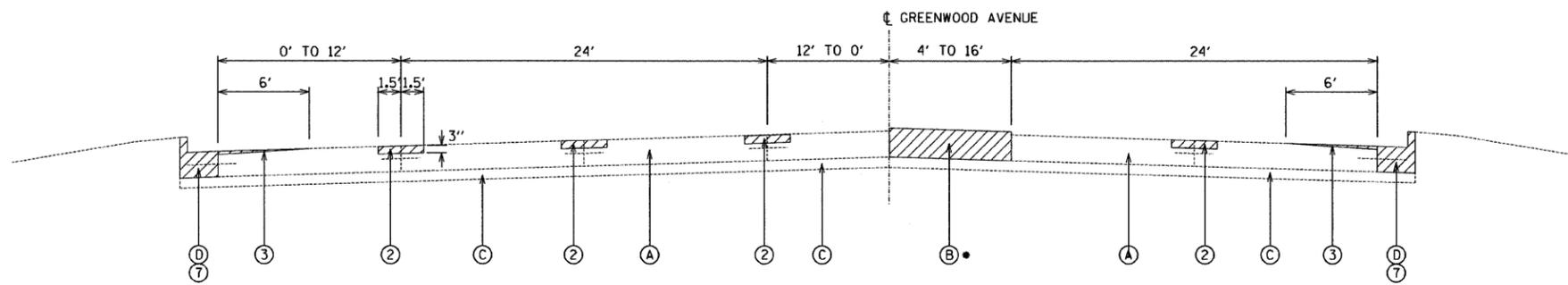
* DENOTES SPECIALTY ITEM

PAY ITEM NUMBER	DESCRIPTION	UNIT	URBAN TOTAL QUANTITY 100% STATE	1000-2A STATE
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	3,294	3,294
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1,019	1,019
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	32,943	32,943
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	4,617	4,617
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	3,428	3,428
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	533	533
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	510	510
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	16,472	16,472
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2,309	2,309
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	200	200
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1,714	1,714
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	482	482
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	291	291
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	291	291
81400215	HEAVY DUTY HANDHOLE TO BE ADJUSTED	EACH	2	2
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1,765	1,765
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	257	257
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	953	953
X4421000	PARTIAL DEPTH PATCHING	TON	75	75
X4422030	PARTIAL DEPTH REMOVAL 3"	SQ YD	445	445
40600826	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	1,833	1,833
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	3	3

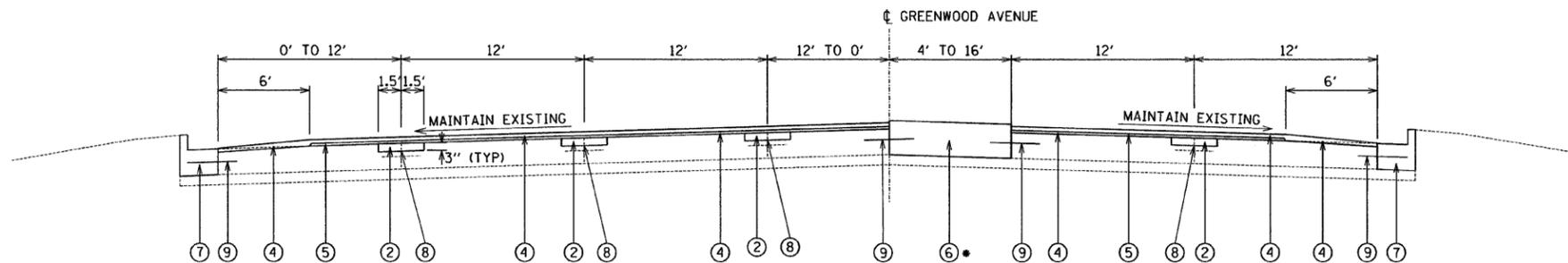
* DENOTES SPECIALTY ITEM

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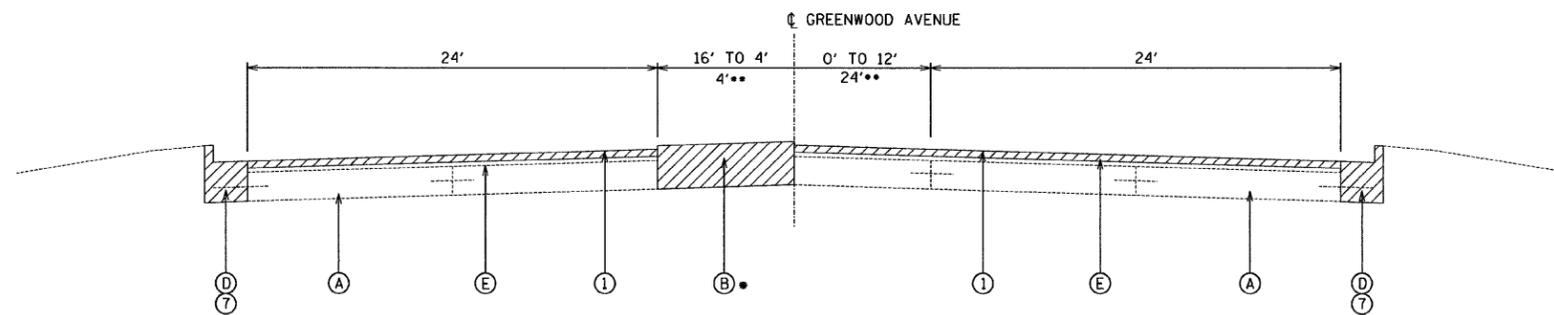
FILE NAME =	USER NAME = .USER.	DESIGNED - EF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GREENWOOD AVE. - GOLF ROAD (IL 58) TO WEST LAKE AVE. SUMMARY OF QUANTITIES	F.A.U. RTE. 2743	SECTION 1316 RS-2	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 3		
	PLOT SCALE = 50.0045' / IN.	CHECKED - RS	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
	PLOT DATE = 12/2/2009	DATE - 12/02/09	REVISED -									



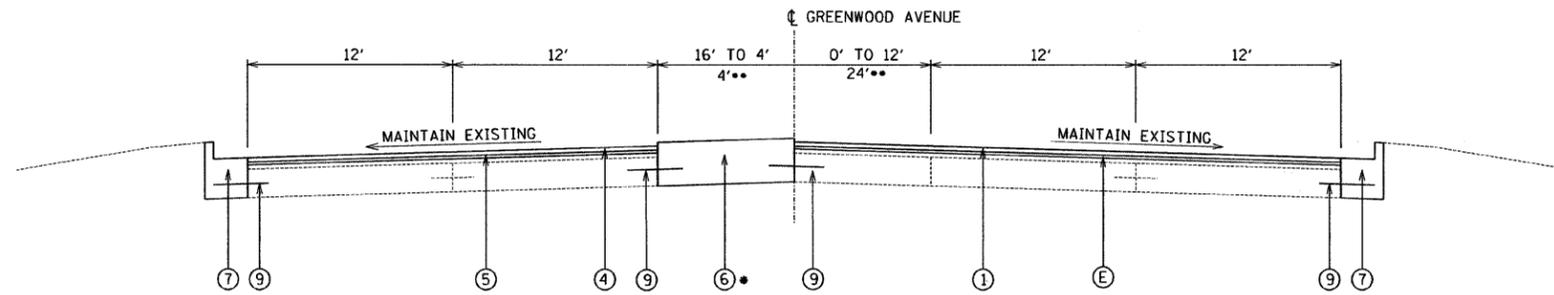
EXISTING TYPICAL SECTION
STA. 106+16 TO STA. 109+73



PROPOSED TYPICAL SECTION
STA. 106+16 TO STA. 109+73



EXISTING TYPICAL SECTION
STA. 109+73 TO STA. 113+39
STA. 114+88 TO STA. 117+03
STA. 189+08 TO STA. 192+88 **
STA. 194+51 TO STA. 197+90



PROPOSED TYPICAL SECTION
STA. 109+73 TO STA. 113+39
STA. 114+88 TO STA. 117+03
STA. 189+08 TO STA. 192+88 **
STA. 194+51 TO STA. 197+90

EXISTING CONDITIONS:

- (A) PCC PAVEMENT, 10"
- (B) PCC CORRUGATED OR BARRIER MEDIAN
- (C) GRANULAR SUB-BASE, 4"
- (D) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (E) HOT-MIX ASPHALT RESURFACING

ITEMS TO BE REMOVED

- CONCRETE BARRIER CURB IN 4-FOOT WIDTH SECTIONS

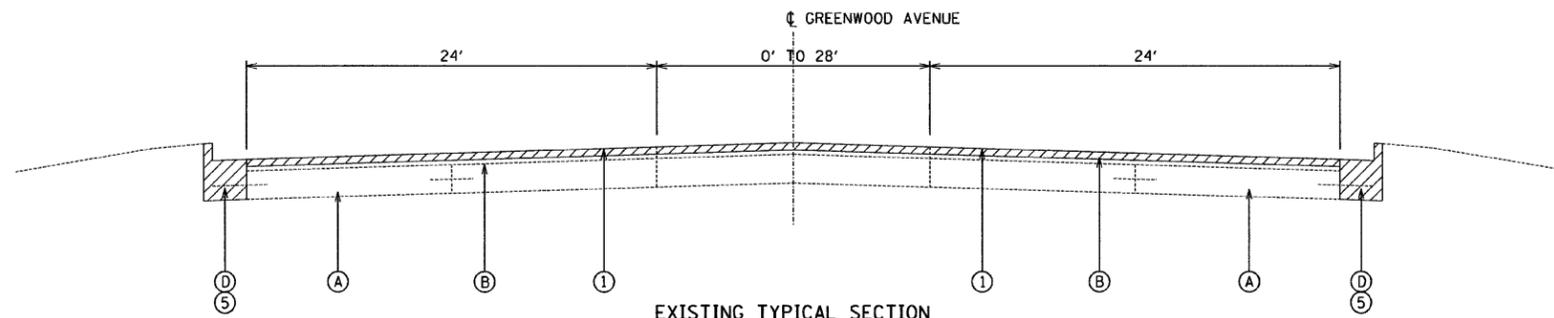
PROPOSED IMPROVEMENTS:

- (1) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (2) PARTIAL DEPTH REMOVAL, 3" AND PARTIAL DEPTH PATCHING
- (3) PCC SURFACE REMOVAL (PARTIAL DEPTH), 1 1/4" TO 0"
- (4) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- (5) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"
- (6) PCC MEDIAN REMOVAL AND REPLACEMENT (AS DETERMINED BY THE ENGINEER)
- (7) COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DETERMINED BY THE ENGINEER)
- (8) STRIP REFLECTIVE CRACK CONTROL SYSTEM
- (9) NO. 6 x 24" EPOXY COATED, DEFORMED TIE BARS AT 24" C-C (INCLUDED IN COST OF CURB AND GUTTER OR CONCRETE MEDIAN)

SEE PLANS AND DISTRICT ONE DETAIL SHEETS FOR PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKER PLACEMENT.

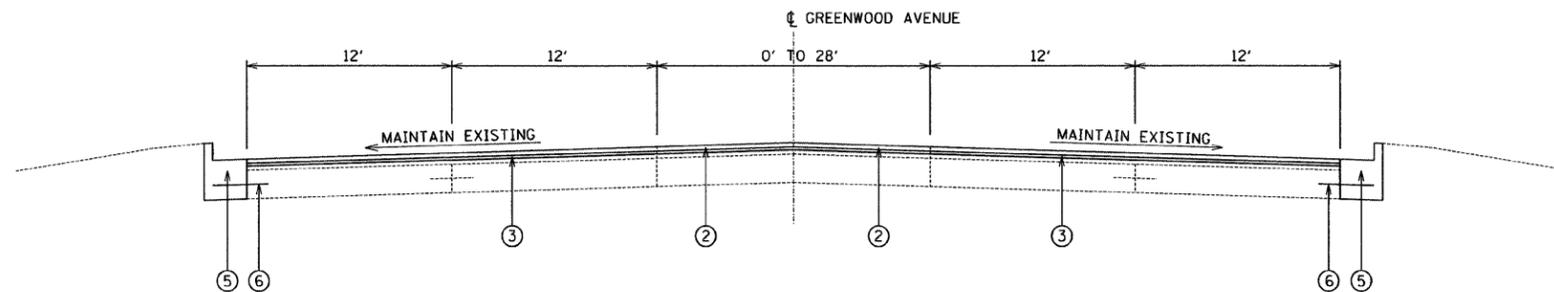
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FILE NAME =	USER NAME = .USER.	DESIGNED - MW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GREENWOOD AVE. - GOLF ROAD (IL 58) TO WEST LAKE AVE. TYPICAL SECTIONS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0045' / IN.	DRAWN - MW	REVISED -				2743	1316 RS-2	COOK	25	4
	PLOT DATE = 12/2/2009	CHECKED - RS	REVISED -		SCALE: NA SHEET NO. 1 OF 2 SHEETS STA. TO STA.			CONTRACT NO. 62548		ILLINOIS FED. AID PROJECT	
		DATE - 12/02/09	REVISED -								



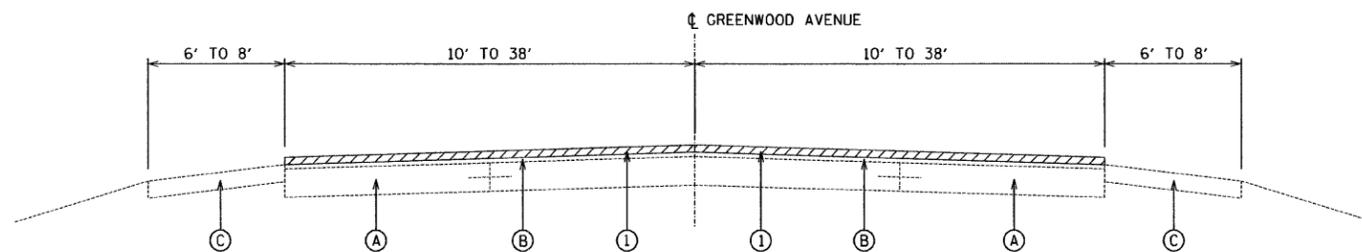
EXISTING TYPICAL SECTION

STA. 117+03 TO STA. 123+07
 STA. 187+28 TO STA. 189+08
 STA. 192+88 TO STA. 194+51
 STA. 197+90 TO STA. 204+22



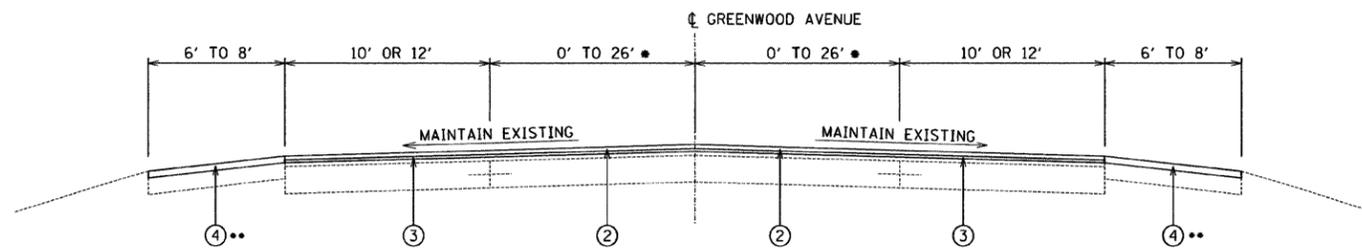
PROPOSED TYPICAL SECTION

STA. 117+03 TO STA. 123+07
 STA. 187+28 TO STA. 189+08
 STA. 192+88 TO STA. 194+51
 STA. 197+90 TO STA. 204+22



EXISTING TYPICAL SECTION

STA. 123+07 TO STA. 146+18
 STA. 147+25 TO STA. 160+78
 STA. 204+22 TO STA. 217+83



PROPOSED TYPICAL SECTION

STA. 123+07 TO STA. 127+00
 STA. 139+00 TO STA. 146+18
 STA. 147+25 TO STA. 151+00
 STA. 204+22 TO STA. 208+50

**AGGREGATE WEDGE SHOULDER, TYPE B ONLY
 STA. 127+00 TO STA. 139+00
 STA. 151+00 TO STA. 160+78
 STA. 208+50 TO STA. 217+83

EXISTING CONDITIONS:

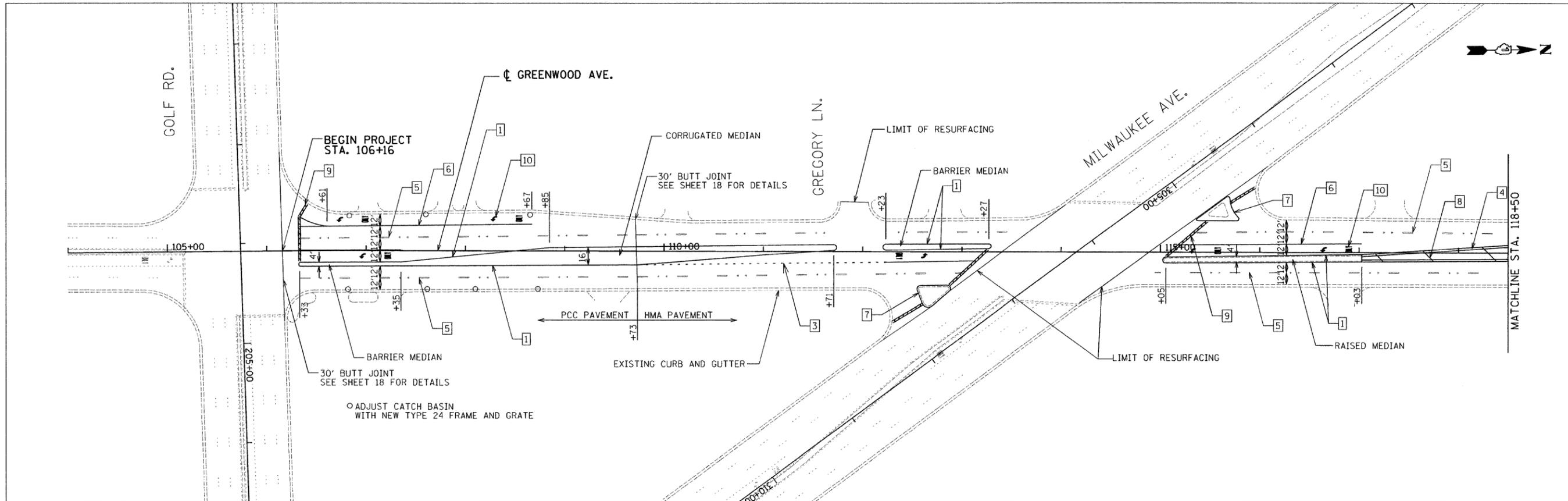
- (A) PCC PAVEMENT
- (B) HOT-MIX ASPHALT RESURFACING
- (C) AGGREGATE SHOULDER
- (D) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ▨ ITEMS TO BE REMOVED
- 10-FOOT LANES AT CENTRAL ROAD

PROPOSED IMPROVEMENTS:

- (1) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
 - (2) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
 - (3) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"
 - (4) AGGREGATE WEDGE SHOULDER, TYPE B, 3"
 - (5) COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DETERMINED BY THE ENGINEER)
 - (6) NO. 6 x 24" EPOXY COATED, DEFORMED TIE BARS AT 24" C-C (INCLUDED IN COST OF CURB AND GUTTER)
- SEE PLANS AND DISTRICT ONE DETAILS FOR PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKER PLACEMENT.

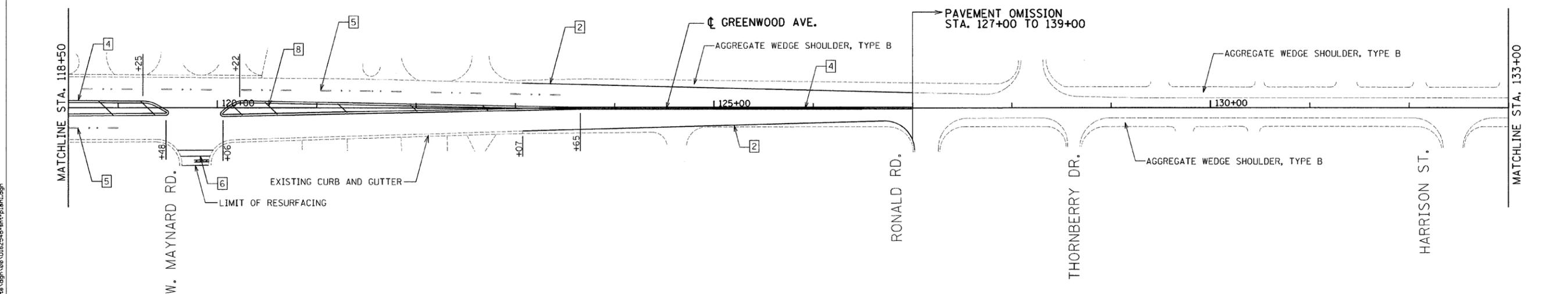
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		DRAWN - MW	REVISED -		SCALE: NA	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	2743	1316 RS-2	COOK	25	5
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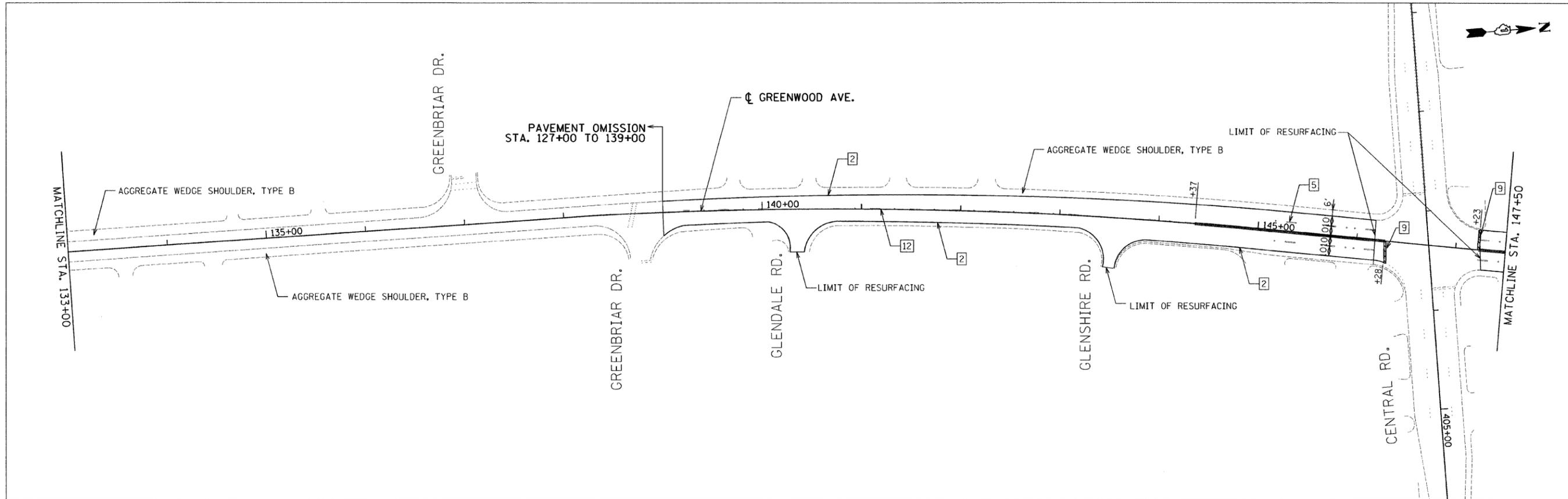
LEGEND

- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID
- 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID
- 3 THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE 2' DASH, 6' SKIP
- 4 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW, 2 @ 11" C-C W/2 AMBER 1 WAY RPM'S
- 5 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SKIP DASH - 10' DASH, 30' SKIP W/2 CRYSTAL/OPAQUE RPM'S
- 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE
- 7 THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE
- 8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW @ 45 DEGREE
- 9 THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE
- 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS
- 11 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE
- 12 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SKIP DASH - 10' DASH, 30' SKIP WITH/1 AMBER 2 WAY RPM'S



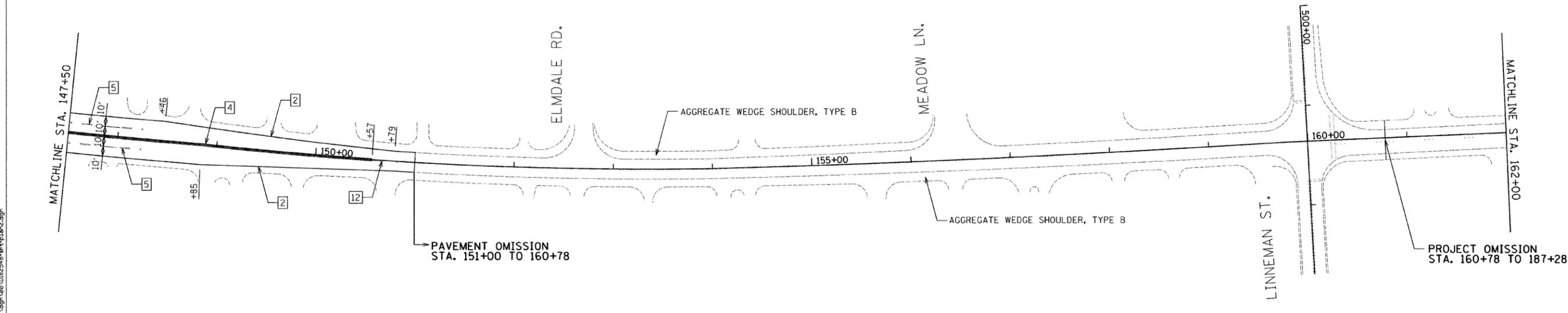
NOTE
USE 7.5' BUTT JOINT AT ALL LIMITS OF RESURFACING, SEE SHEET 18 FOR DETAILS

FILE NAME =	USER NAME = .USER.	DESIGNED - EF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GREENWOOD AVE. - GOLF ROAD (IL 58) TO WEST LAKE AVE. ROADWAY AND PAVEMENT MARKING PLANS	F.A.U. RTE. 2743	SECTION 1316 R5-2	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 6		
	PLOT SCALE = 50.00/45' / IN.	CHECKED - PJ	REVISED -			SCALE: 50	SHEET NO. 1 OF 4 SHEETS	STA. 104+00 TO STA. 133+00	CONTRACT NO. 62548			
	PLOT DATE = 12/2/2009	DATE - 12/02/09	REVISED -			ILLINOIS FED. AID PROJECT						
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LEGEND

- | | | |
|--|--|--|
| [1] THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID | [5] THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SKIP DASH - 10' DASH, 30' SKIP W/2 CRYSTAL/OPAQUE RPM'S | [9] THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE |
| [2] THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID | [6] THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE | [10] THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS |
| [3] THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE 2' DASH, 6' SKIP | [7] THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE | [11] THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE |
| [4] THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW, 2 @ 11" C-C W/2 AMBER 1 WAY RPM'S | [8] THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW @ 45 DEGREE | [12] THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SKIP DASH - 10' DASH, 30' SKIP WITH/1 AMBER 2 WAY RPM'S |



NOTE
USE 7.5' BUTT JOINT AT ALL LIMITS OF RESURFACING, SEE SHEET 18 FOR DETAILS

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		DRAWN - EF	REVISED -
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	PLOT DATE = 12/2/2009	DATE - 12/02/09	REVISED -

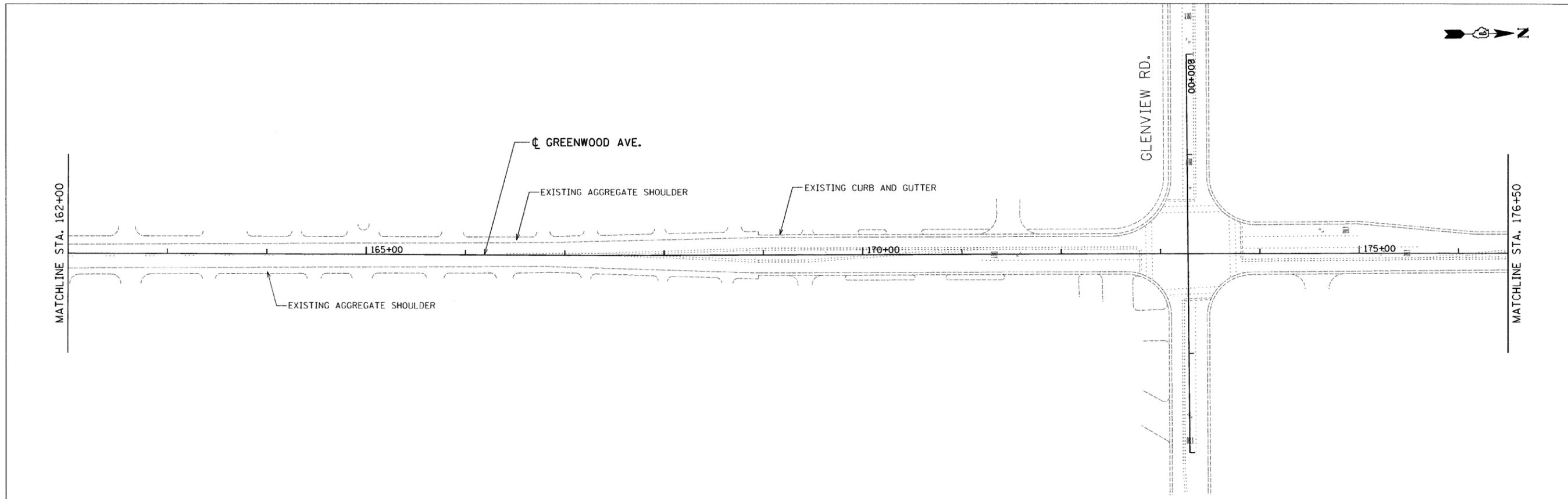
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GREENWOOD AVE. - GOLF ROAD (IL 58) TO WEST LAKE AVE.
ROADWAY AND PAVEMENT MARKING PLANS**

SCALE: 50 SHEET NO. 2 OF 4 SHEETS STA. 133+00 TO STA. 162+00

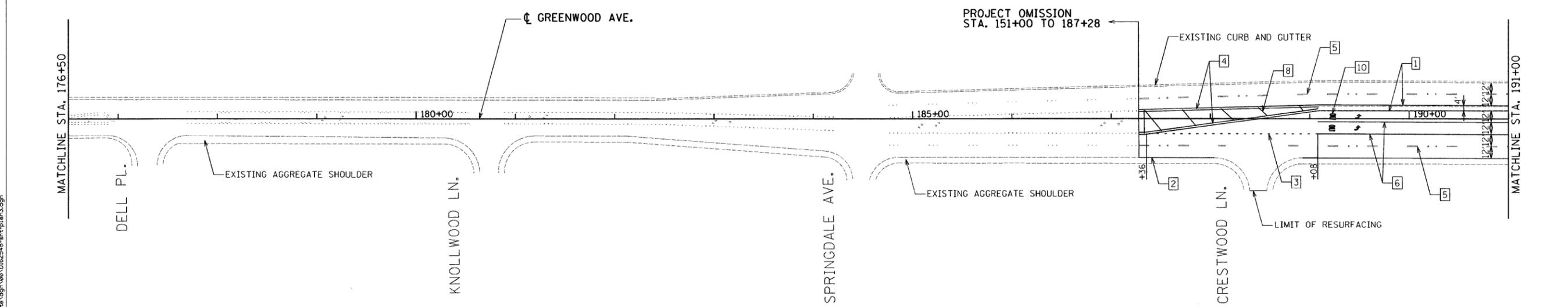
F.A.U. RTE. 2743	SECTION 1316 RS-2	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 7
CONTRACT NO. 62548			ILLINOIS FED. AID PROJECT	

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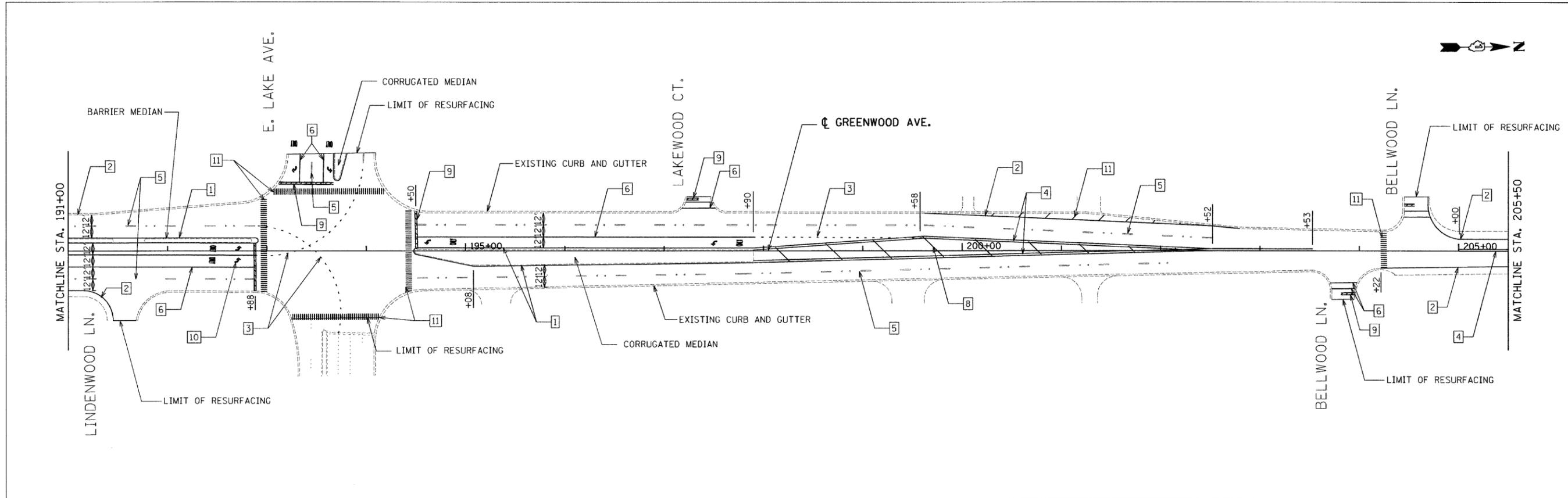
LEGEND

- | | | |
|--|--|--|
| 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID | 5 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SKIP DASH - 10' DASH, 30' SKIP W/2 CRYSTAL/OPAQUE RPM'S | 9 THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE |
| 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID | 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE | 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS |
| 3 THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE 2' DASH, 6' SKIP | 7 THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE | 11 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE |
| 4 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW, 2 @ 11" C-C W/2 AMBER 1 WAY RPM'S | 8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW @ 45 DEGREE | 12 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SKIP DASH - 10' DASH, 30' SKIP WITH/1 AMBER 2 WAY RPM'S |



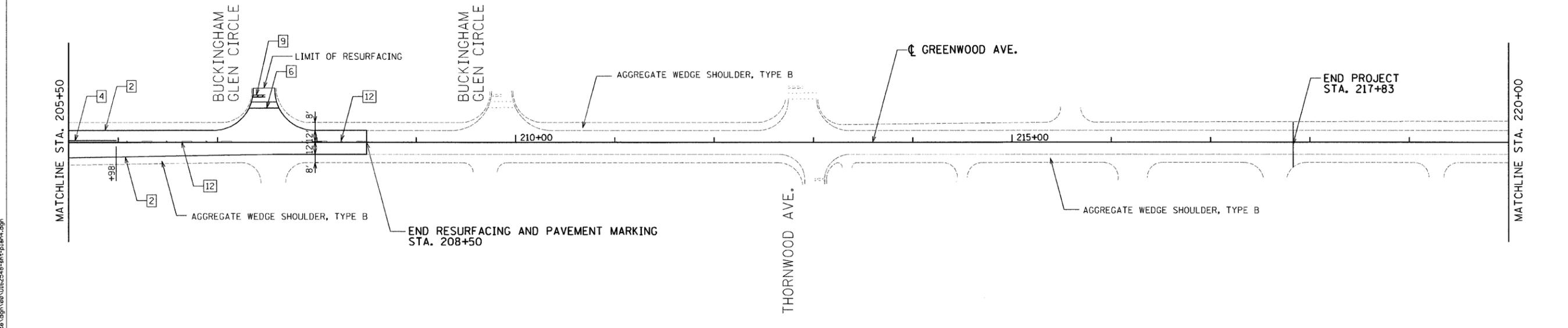
NOTE
USE 7.5' BUTT JOINT AT ALL LIMITS OF RESURFACING,
SEE SHEET 18 FOR DETAILS

FILE NAME = p:_pdr2009\200903023-06\cnd\state.dgn\001D122548-ah+plan3.dgn	USER NAME = _USER_	DESIGNED - EF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GREENWOOD AVE. - GOLF ROAD (IL 58) TO WEST LAKE AVE. ROADWAY AND PAVEMENT MARKING PLANS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0045' / IN.	CHECKED - PJ	REVISED -					2743	1316 RS-2	COOK	25	8
	PLOT DATE = 12/2/2009	DATE - 12/02/09	REVISED -		SCALE: 50	SHEET NO. 3 OF 4 SHEETS	STA. 162+00 TO STA. 191+00	CONTRACT NO. 62548				
							ILLINOIS FED. AID PROJECT					



LEGEND

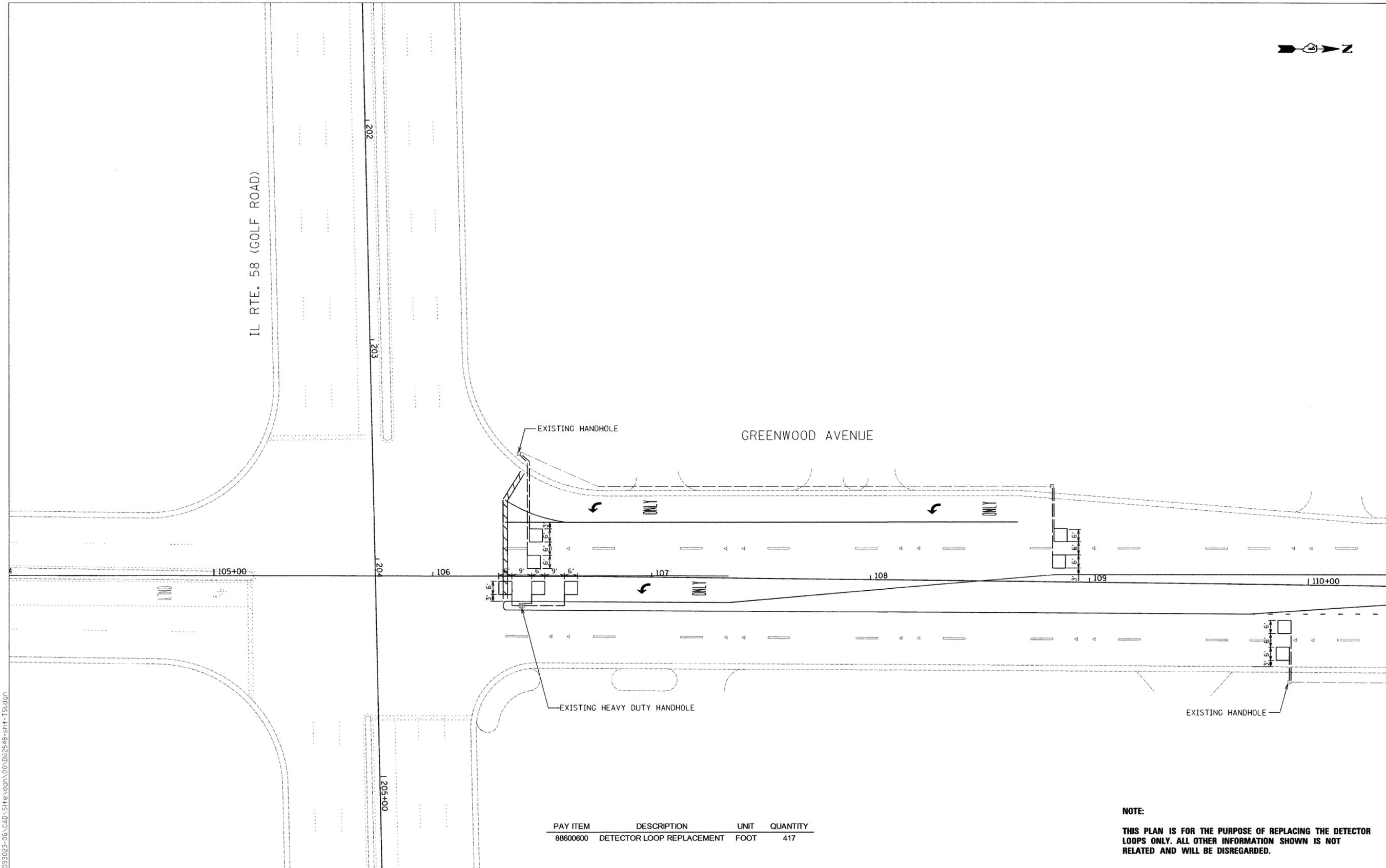
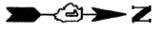
- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SOLID
- 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SOLID
- 3 THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE 2' DASH, 6' SKIP
- 4 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW, 2 @ 11" C-C W/2 AMBER 1 WAY RPM'S
- 5 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE SKIP DASH - 10' DASH, 30' SKIP W/2 CRYSTAL/OPAQUE RPM'S
- 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" WHITE
- 7 THERMOPLASTIC PAVEMENT MARKING - LINE 8" WHITE
- 8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" YELLOW @ 45 DEGREE
- 9 THERMOPLASTIC PAVEMENT MARKING - LINE 24" WHITE
- 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS
- 11 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE
- 12 THERMOPLASTIC PAVEMENT MARKING - LINE 4" YELLOW SKIP DASH - 10' DASH, 30' SKIP WITH/1 AMBER 2 WAY RPM'S



NOTE
 USE 7.5' BUTT JOINT AT ALL LIMITS OF RESURFACING,
 SEE SHEET 18 FOR DETAILS

FILE NAME =	USER NAME = .USER.	DESIGNED - EF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GREENWOOD AVE. - GOLF ROAD (IL 58) TO WEST LAKE AVE. ROADWAY AND PAVEMENT MARKING PLANS	F.A.U. RTE. 2743	SECTION 1316 RS-2	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 9	
PLOT SCALE = 50.0045' / IN.	CHECKED - PJ	REVISIED -	REVISIED -			SCALE: 50 SHEET NO. 4 OF 4 SHEETS STA. 191+00 TO STA. 220+00					
PLOT DATE = 12/2/2009	DATE - 12/02/09	REVISIED -	REVISIED -			ILLINOIS FED. AID PROJECT CONTRACT NO. 62548					

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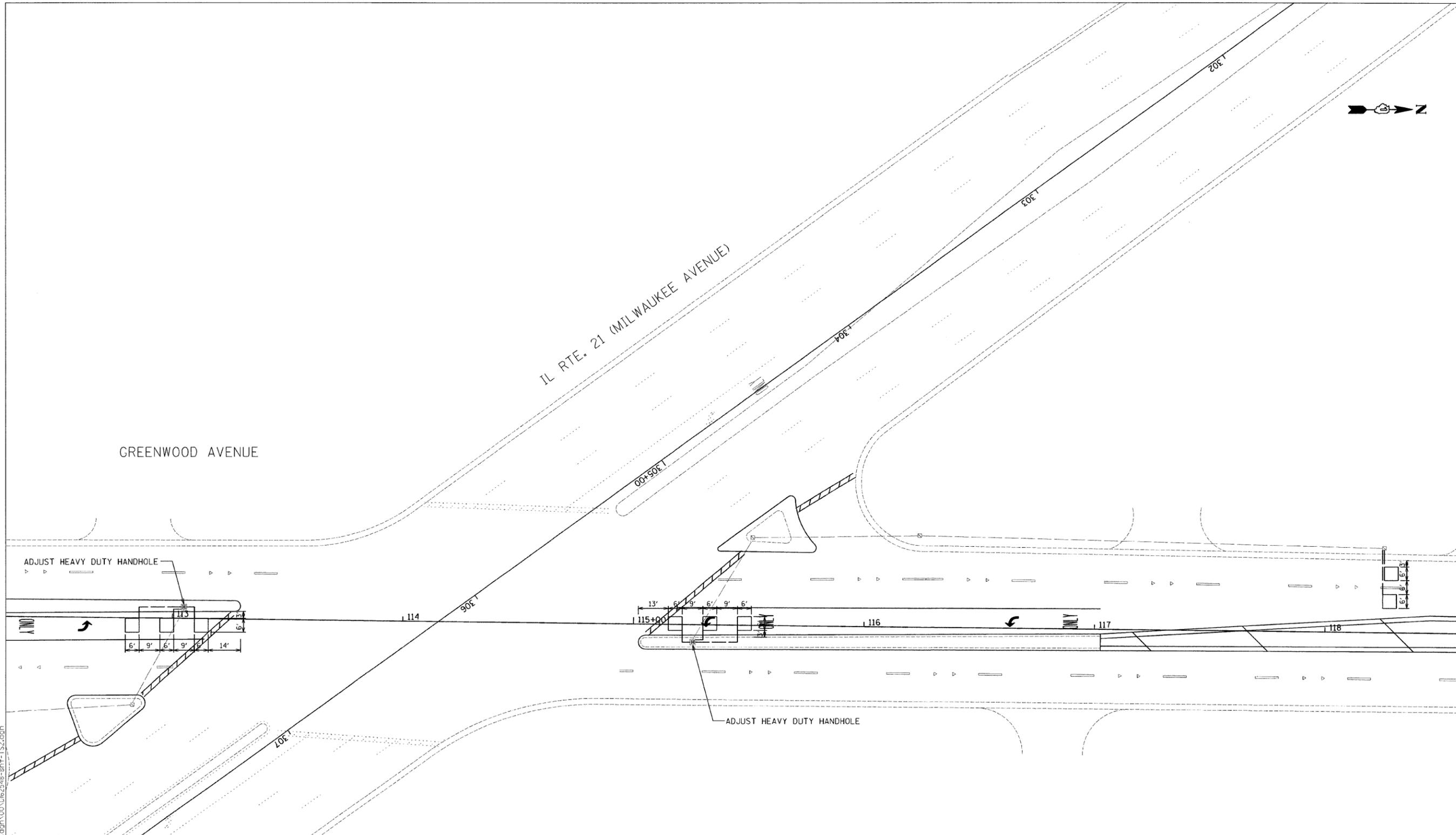


PAY ITEM	DESCRIPTION	UNIT	QUANTITY
88600600	DETECTOR LOOP REPLACEMENT	FOOT	417

NOTE:
 THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

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FILE NAME =	USER NAME = .USER.	DESIGNED - EF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GREENWOOD AVE. - GOLF ROAD (IL 58) TO WEST LAKE AVE. DETECTOR LOOP REPLACEMENT AT GREENWOOD AVE. AND IL 58		F.A.U. RTE. 2743	SECTION 1316 RS-2	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 10	
	PLOT SCALE = 20.0018' / IN.	DRAWN - EF	REVISED -		SCALE: 20	SHEET NO. 1 OF 4 SHEETS	STA. TO STA.	CONTRACT NO. 62548		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 12/2/2009	CHECKED - RS	REVISED -									
		DATE - 12/02/09	REVISED -									



PAY ITEM	DESCRIPTION	UNIT	QUANTITY
88600600	DETECTOR LOOP REPLACEMENT	FOOT	296

NOTE:
 THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

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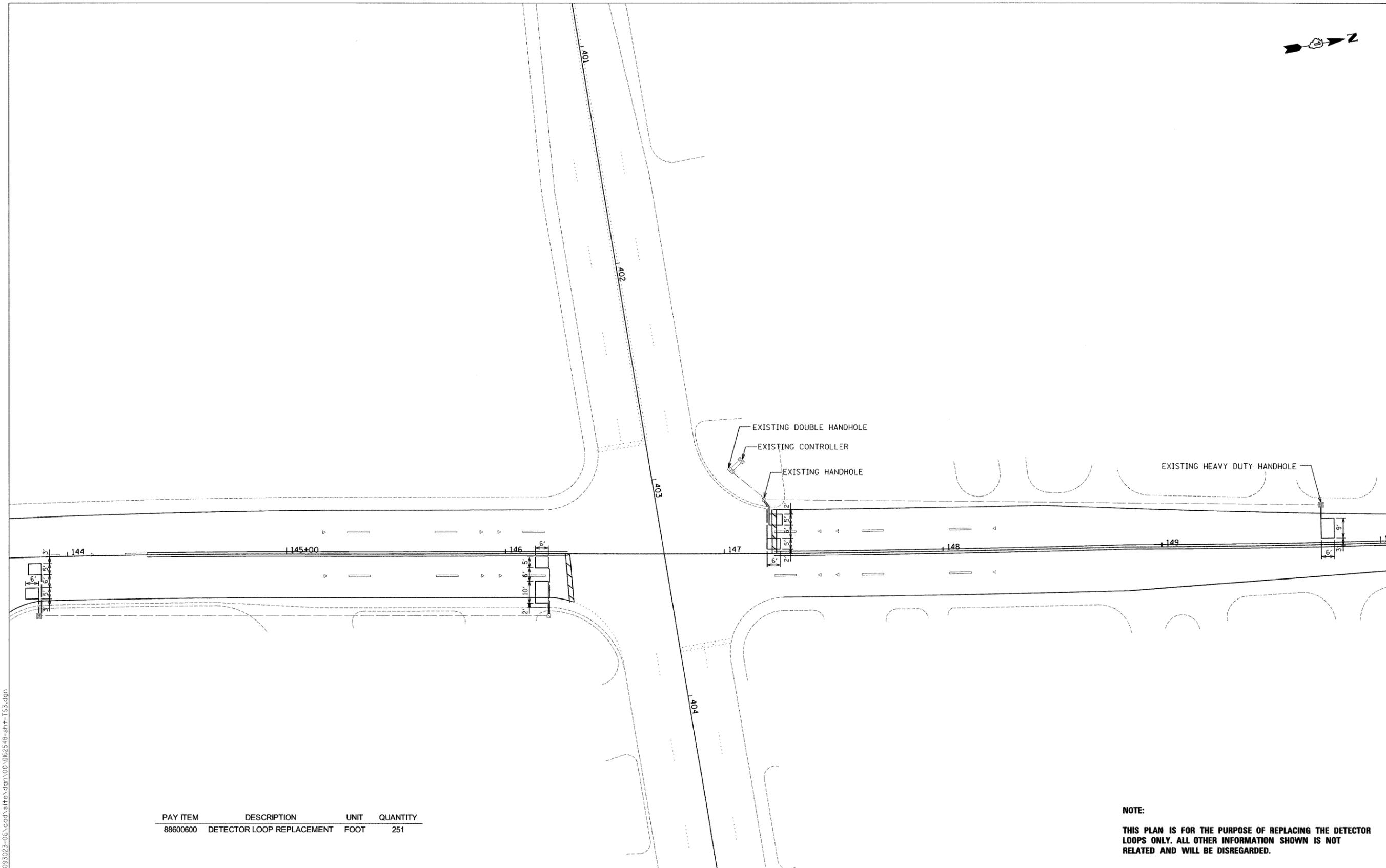
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	PLOT DATE = 12/2/2009	DATE - 02/02/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GREENWOOD AVE. - GOLF ROAD (IL 58) TO WEST LAKE AVE.
DETECTOR LOOP REPLACEMENT AT GREENWOOD AVE. AND IL 21

SCALE: 20 SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2743	1316 RS-2	COOK	25	11
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62548	

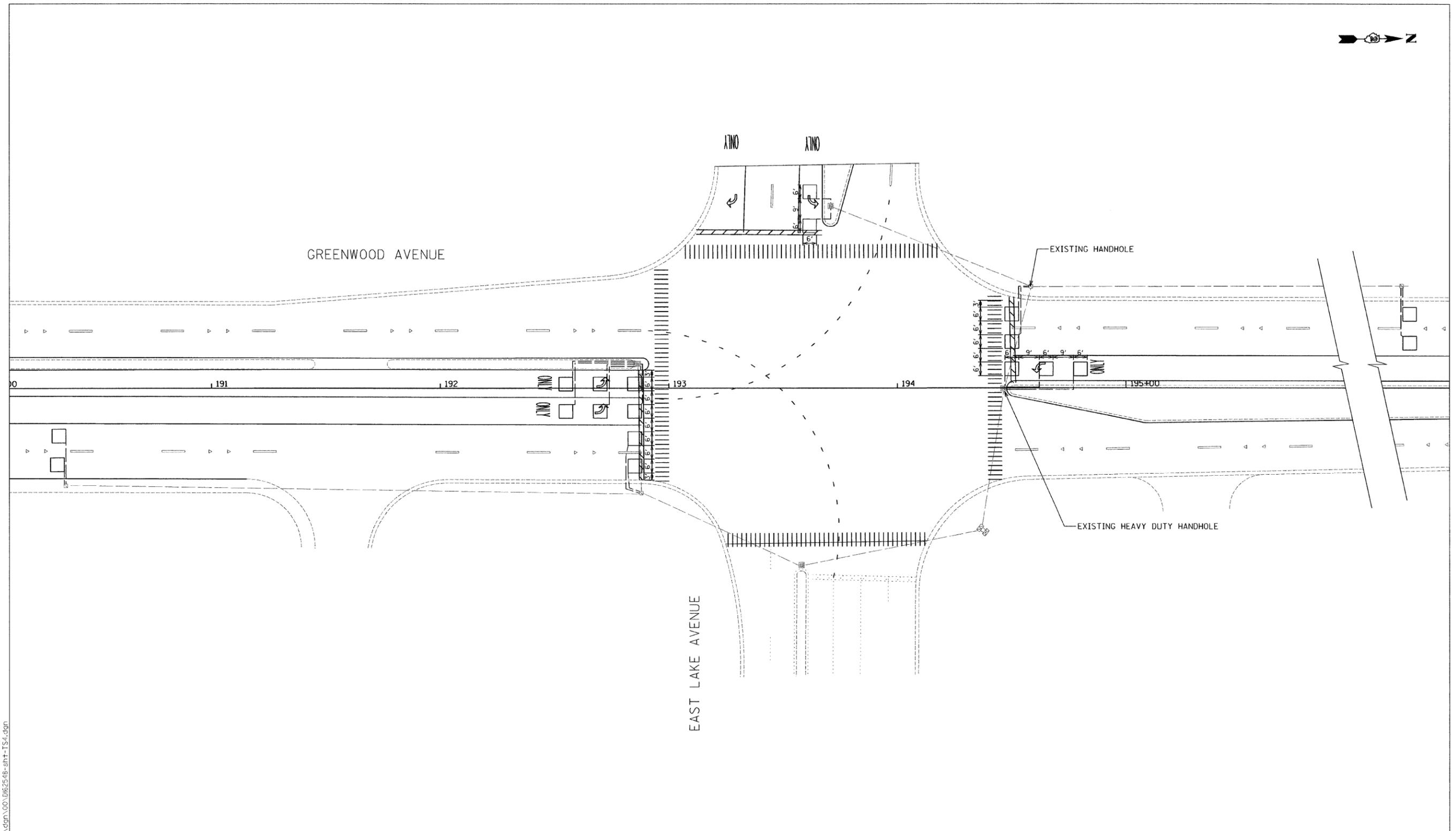


PAY ITEM	DESCRIPTION	UNIT	QUANTITY
88600600	DETECTOR LOOP REPLACEMENT	FOOT	251

NOTE:
 THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

P:_0822009\20093023-06\cdd\site\dm\00\062548-sh1-T53.dgn

FILE NAME =	USER NAME = _USER_	DESIGNED - EF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GREENWOOD AVE. - GOLF ROAD (IL 58) TO WEST LAKE AVE. DETECTOR LOOP REPLACEMENT AT GREENWOOD AVE. AND CENTRAL RD.		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - EF	REVISED -		SCALE: 20	SHEET NO. 3 OF 4 SHEETS	STA.	TO STA.	2743	1316 RS-2	COOK	25 12
		CHECKED - RS	REVISED -		CONTRACT NO. 62548							
		DATE - 12/02/09	REVISED -		ILLINOIS FED. AID PROJECT							

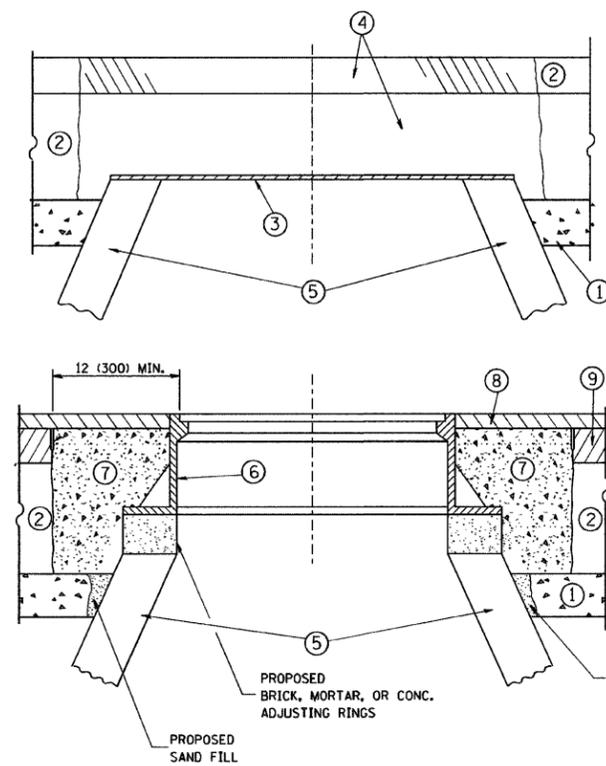


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PAY ITEM	DESCRIPTION	UNIT	QUANTITY
88600600	DETECTOR LOOP REPLACEMENT	FOOT	801

NOTE:
 THIS PLAN IS FOR THE PURPOSE OF REPLACING THE DETECTOR LOOPS ONLY. ALL OTHER INFORMATION SHOWN IS NOT RELATED AND WILL BE DISREGARDED.

FILE NAME =	USER NAME = _USER_	DESIGNED - EEF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GREENWOOD AVE. - GOLF ROAD (IL 58) TO WEST LAKE AVE. DETECTOR LOOP REPLACEMENT AT GREENWOOD AVE. AND E. LAKE AVE.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 20.0018' / IN.	DRAWN - EEF	REVISED -			2743	1316 RS-2	COOK	25	13	
	PLOT DATE = 12/2/2009	CHECKED - PMS	REVISED -			CONTRACT NO. 62548					
		DATE - 012/02/2009	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE: 20	SHEET NO. 4 OF 4 SHEETS	STA.	TO STA.			



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 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

NOTES:

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

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

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

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

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

LOCATION OF STRUCTURES:

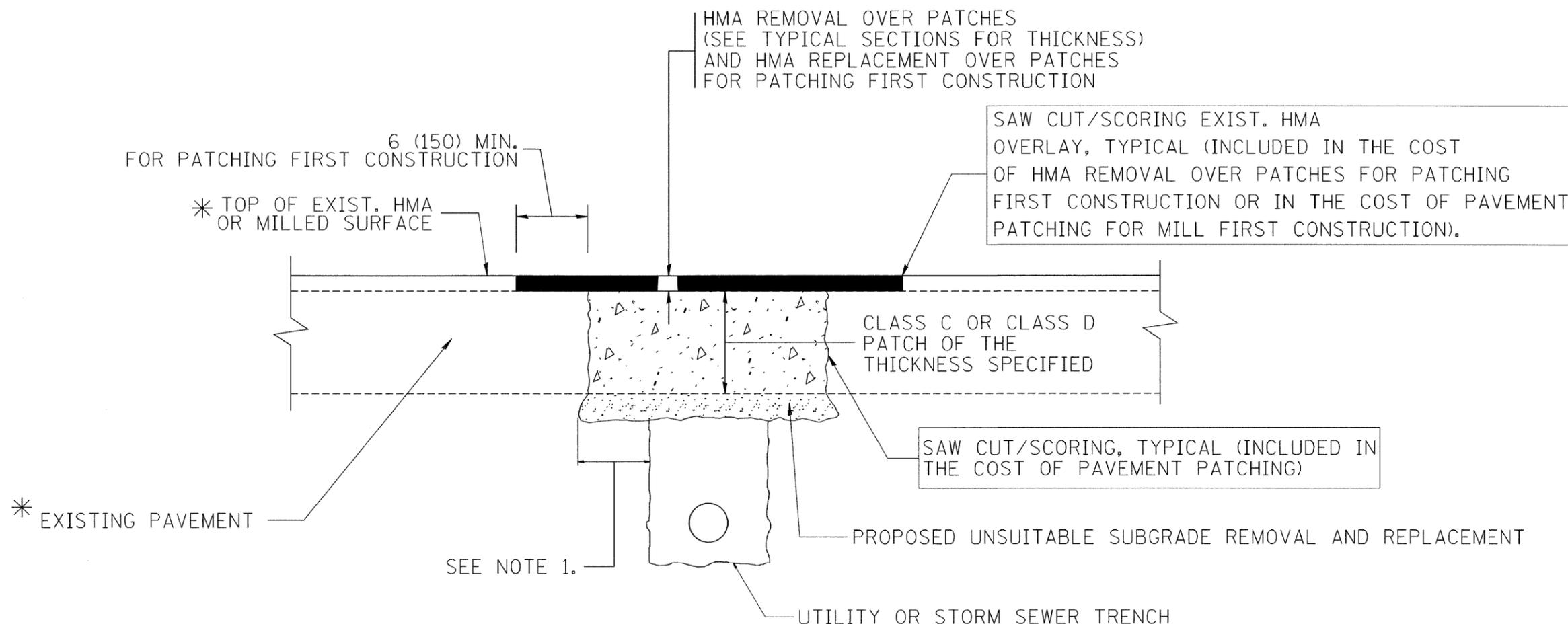
THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT: 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

FILE NAME = W:\dststd\22x34\bd08.dgn	USER NAME = goglionobt	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.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED - A. ABBAS 03-21-97			2743	1316 RS-2	COOK	25	14	
		PLOT SCALE = 50.0000' / IN.	REVISED - R. WIEDEMAN 05-14-04			BD600-03 (BD-8)		CONTRACT NO.			
		PLOT DATE = 1/4/2008	REVISED - R. BORO 01-01-07			SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.	
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)

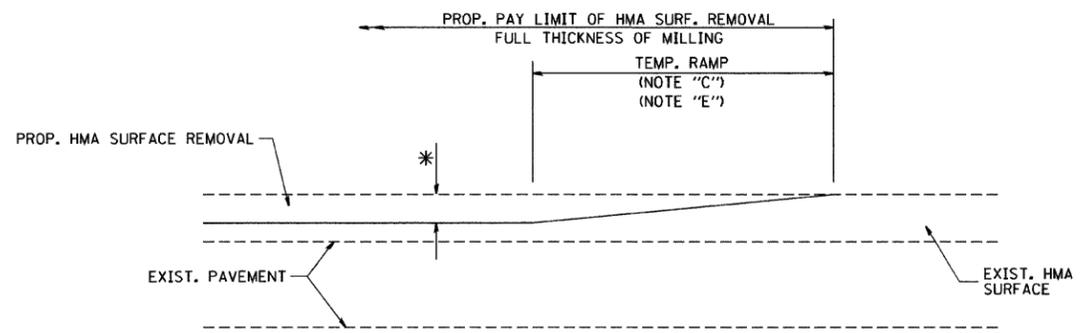
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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.

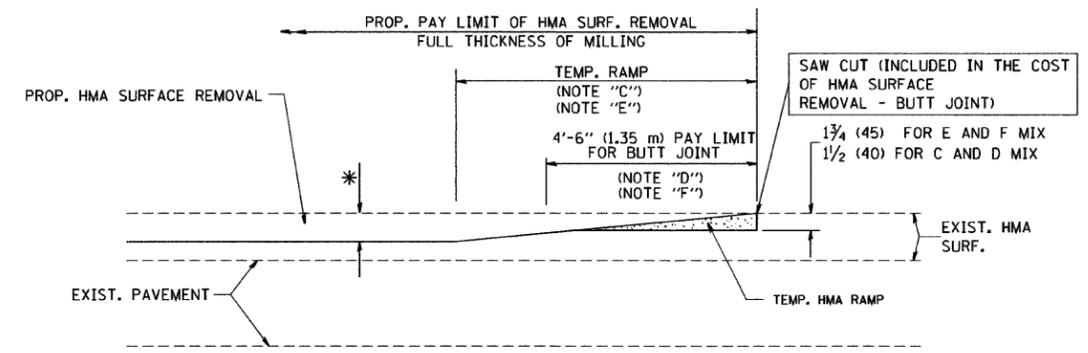
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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		DRAWN -	REVISED - R. BORO 01-01-07		2743	1316 RS-2	COOK	25	15			
		PLOT SCALE = 50.000' / IN.	REVISED - R. BORO 09-04-07		BD400-04 (BD-22)			CONTRACT NO.				
		PLOT DATE = 10/27/2005	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			



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

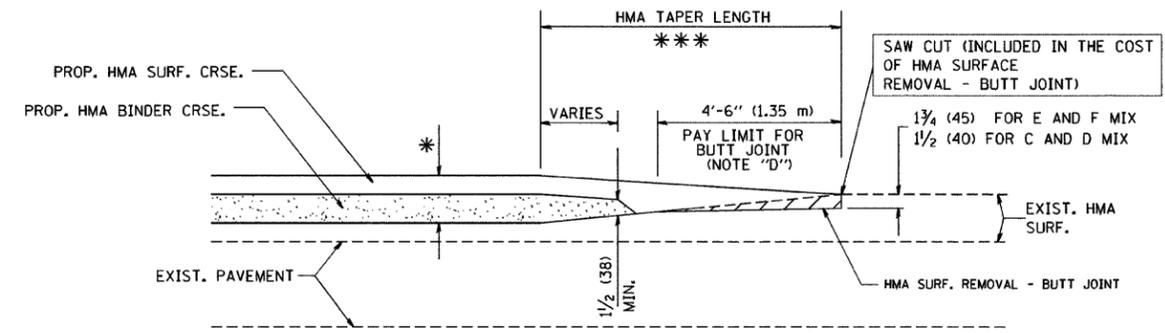
OPTION 1



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

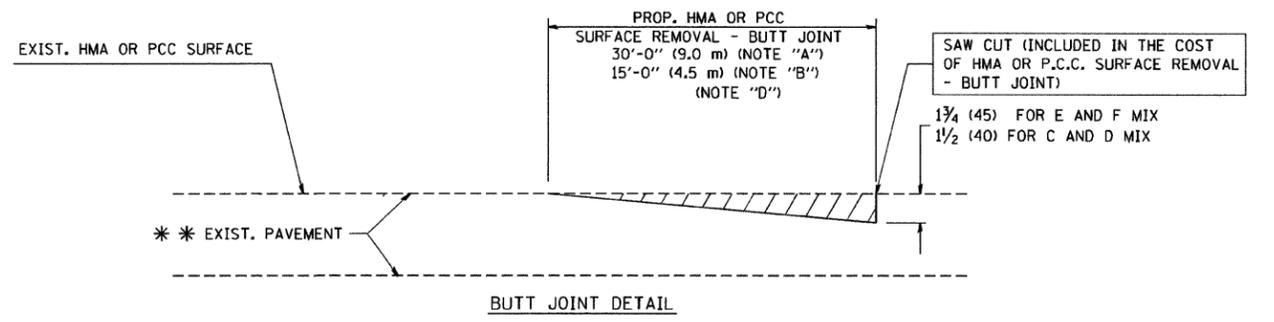
OPTION 2

TYPICAL TEMPORARY RAMP

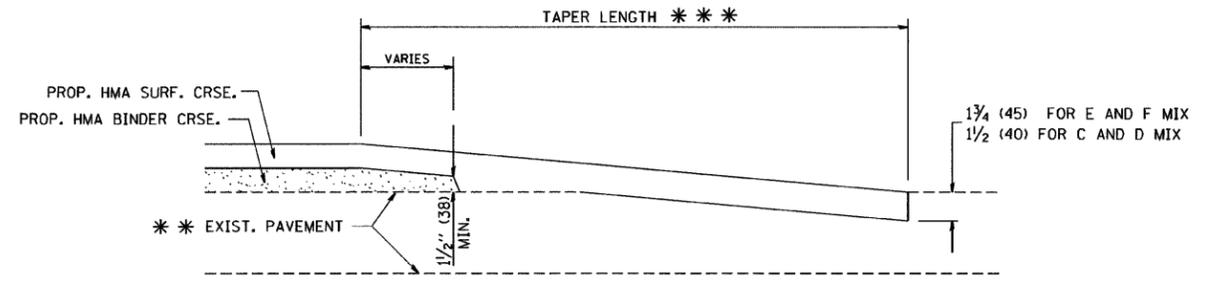


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

NOTES

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

BASIS OF PAYMENT:

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

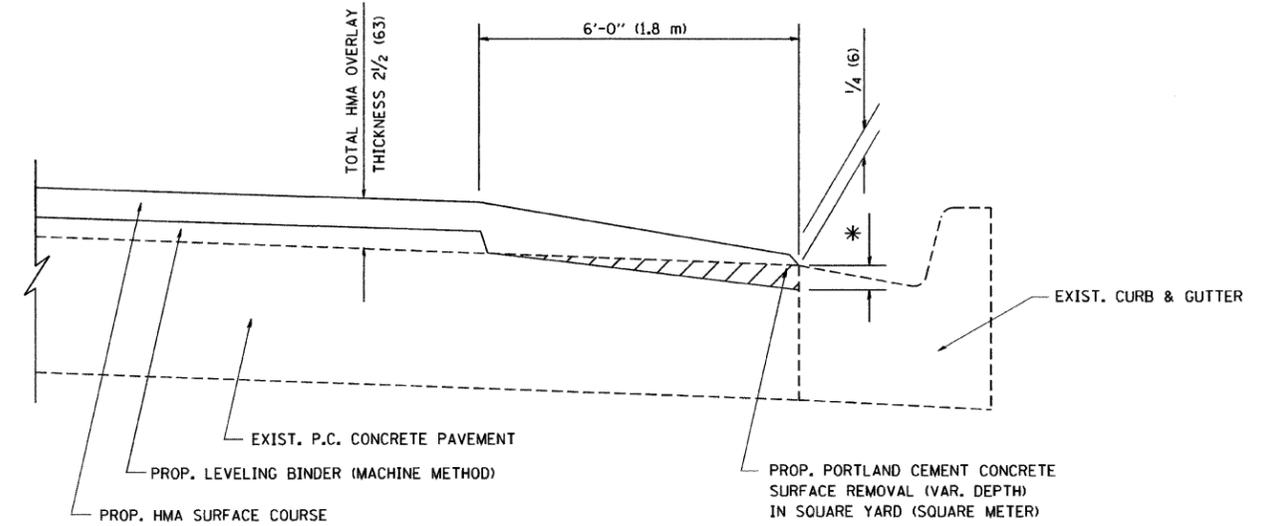
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = gaglianob	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
		CHECKED -	REVISED - M. GOMEZ 04-06-01
		DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2743	1316 BS-2	COOK	25	17
BD400-05 BD32			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

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

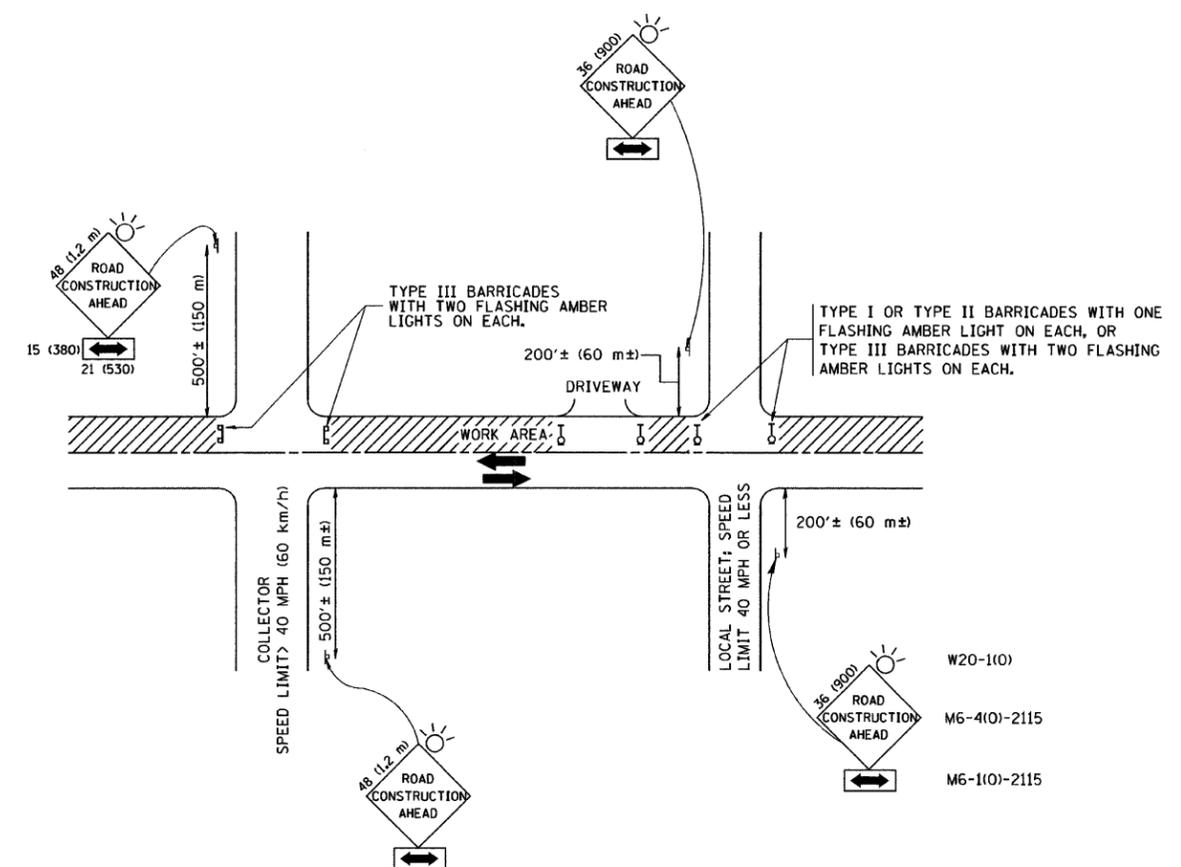
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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		DRAWN - JIS	REVISED - A. ABBAS 05-05-99
	PLOT SCALE = 50.0000' / IN.	CHECKED - A. ABBAS	REVISED - E. GOMEZ 12-21-00
	PLOT DATE = 1/4/2008	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.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2743	1316 B8-2	COOK	25	18
BD400-06 (BD33)		CONTRACT NO.		
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
- 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:
 - 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.
 - 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.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

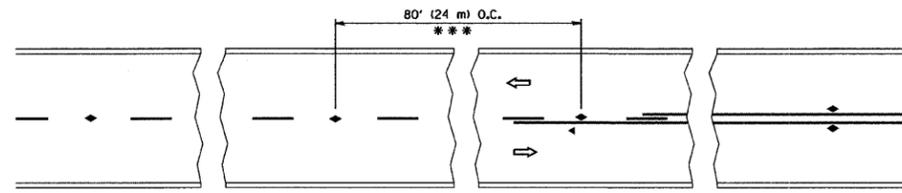
All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME = W:\diststd\22x34\to18.dgn	USER NAME = gaglianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
		CHECKED -	REVISED - A. HOUSEH 10-15-96
		DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

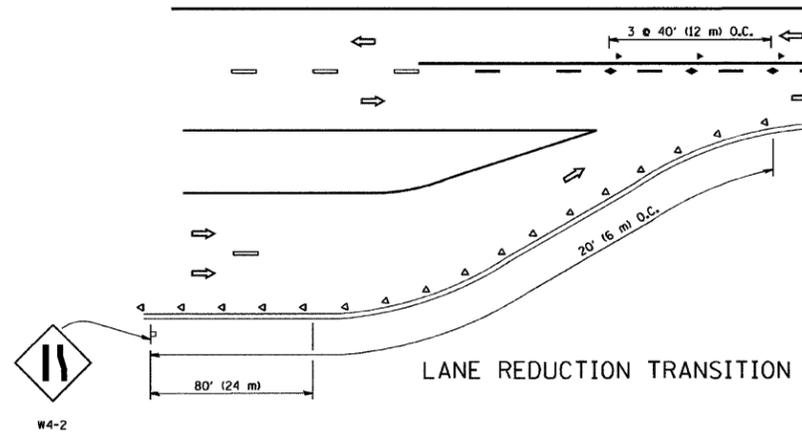
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE. 2743	SECTION 1316 RS-2	COUNTY COOK	TOTAL SHEETS 25	SHEET NO. 19
TC-10			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

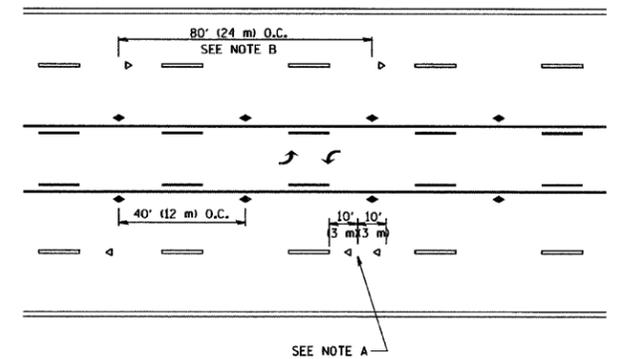


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

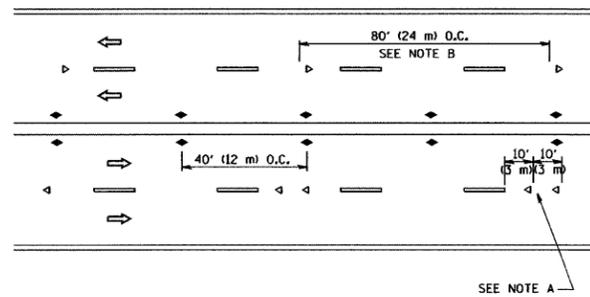
TWO-LANE/TWO-WAY



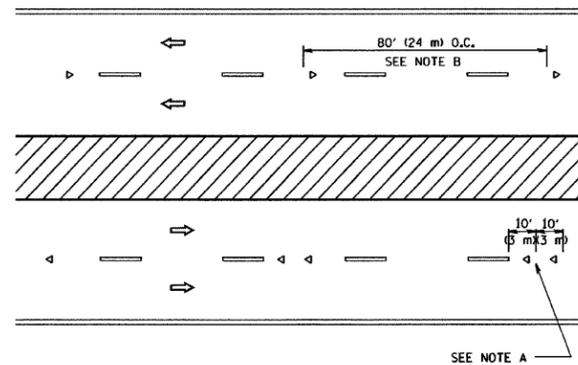
LANE REDUCTION TRANSITION



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

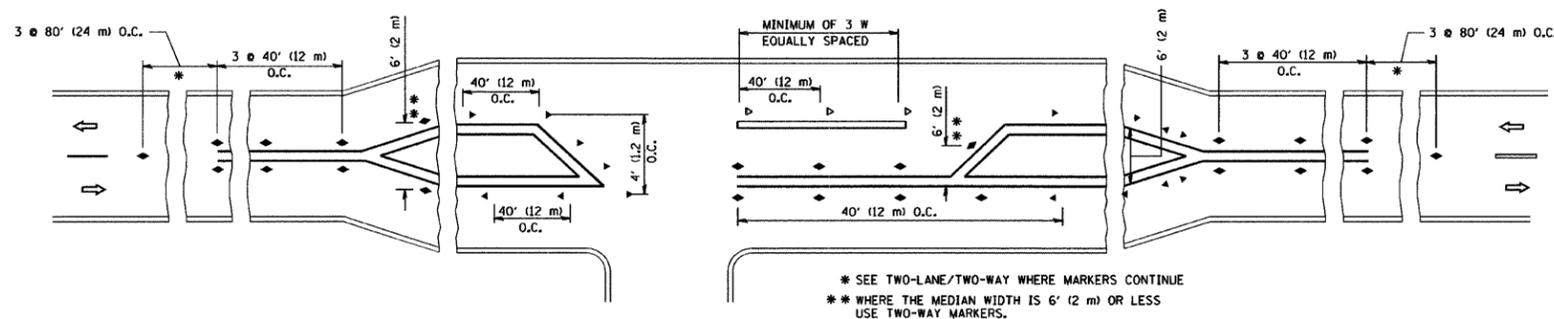
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- 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.
- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

DESIGN NOTES

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

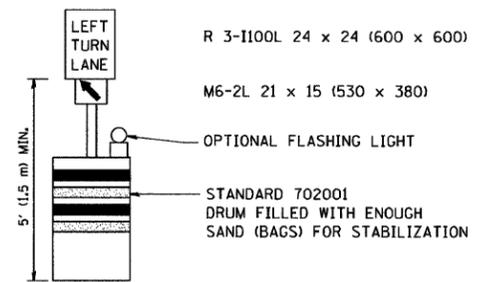
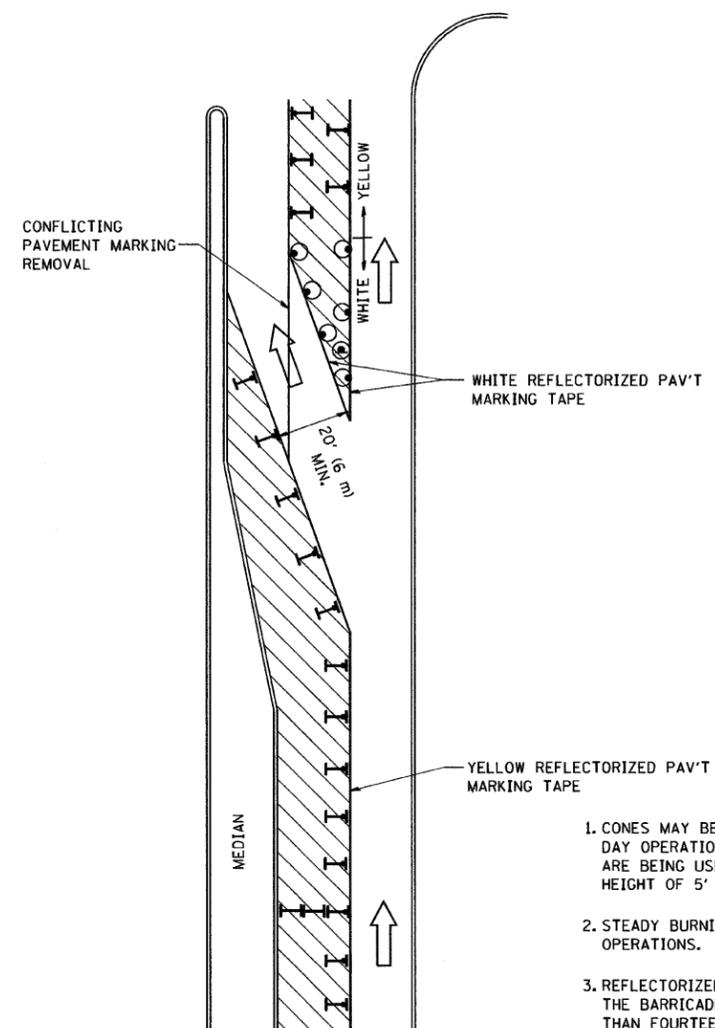


LEFT TURN

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

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

FILE NAME = W:\dststd\22x34\td11.dgn	USER NAME = goglienobt	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	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.	
		DRAWN -	REVISED - T. RAMMACHER 03-12-99		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2743	1316 RS-2	COOK	25 20
		PLOT SCALE = 50,000 / IN.	REVISOR - T. RAMMACHER 01-06-00				TC-11		CONTRACT NO.			
		PLOT DATE = 1/4/2008	DATE -				<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>					

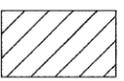


GENERAL NOTES

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 BT 725 IS REQUIRED.
8. 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

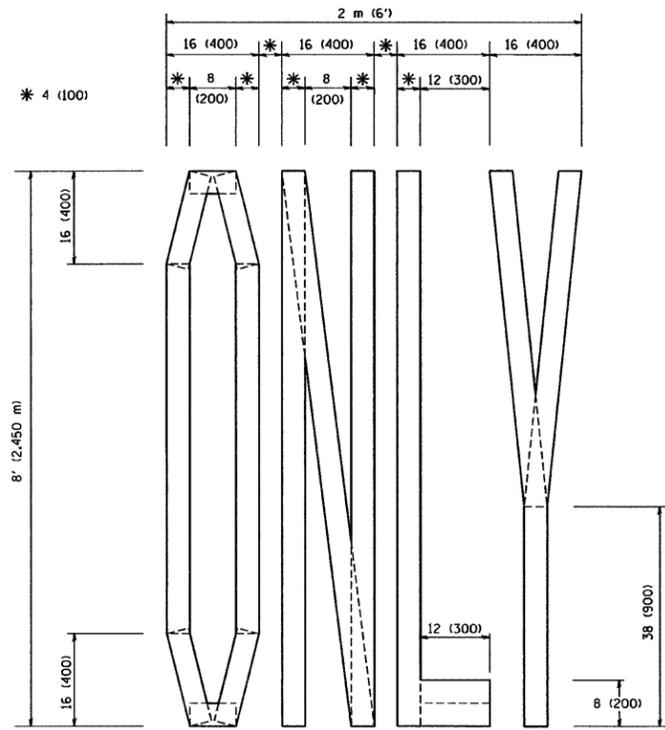
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		DRAWN -	REVISED - A. HOUSEH 11-07-95
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-12-96
	PLOT DATE = 1/4/2008	DATE -	REVISED -T. RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

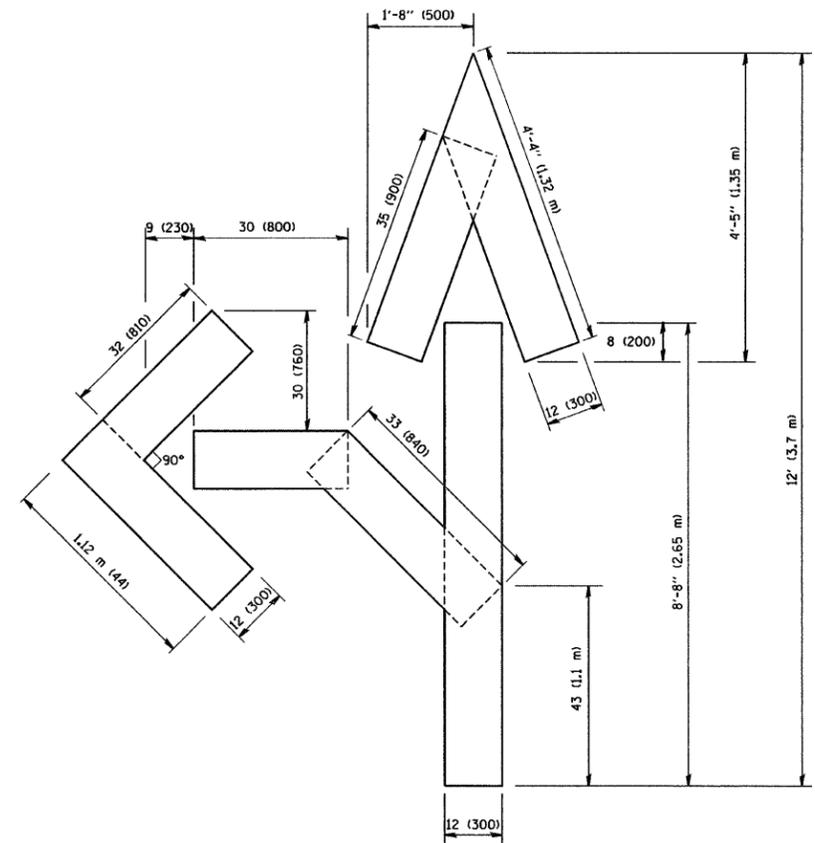
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.
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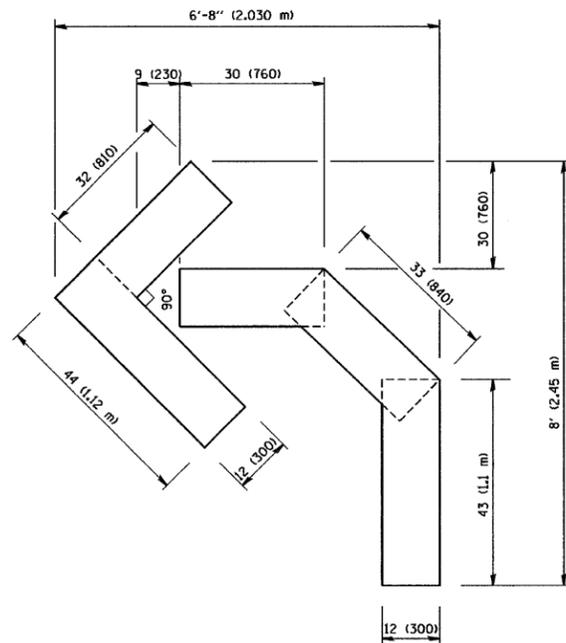
F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2743	1316 RS-2	COOK	25	22
TC-14			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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



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



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

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

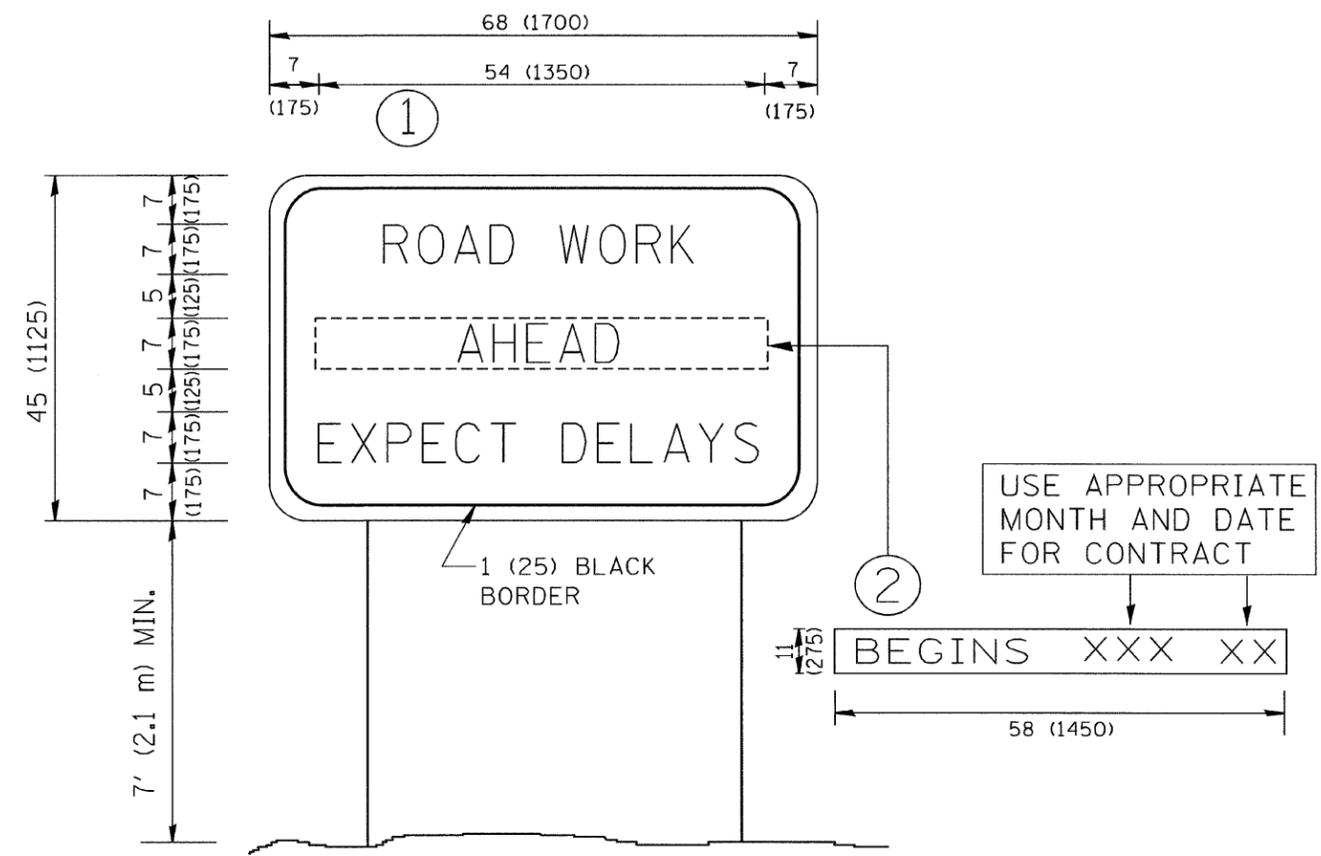
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		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000" / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

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. DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2743	1316 RS-2	COOK	25	23
TC-16			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

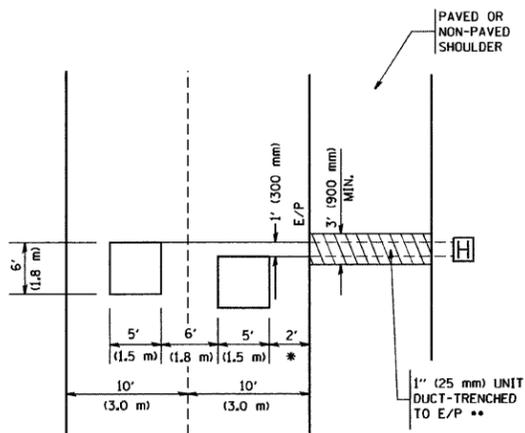
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.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

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

FILE NAME = W:\distatd\22x34\tc22.dgn	USER NAME = goglienobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN	F.A.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED - R. MIRS 12-11-97			2743	1316 RS-2	COOK	25	24	
		CHECKED -	REVISED - T. RAMMACHER 02-02-99			TC-22		CONTRACT NO.			
		DATE -	REVISED - C. JUCIUS 01-31-07			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>	

LOOPS NEXT TO SHOULDERS

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

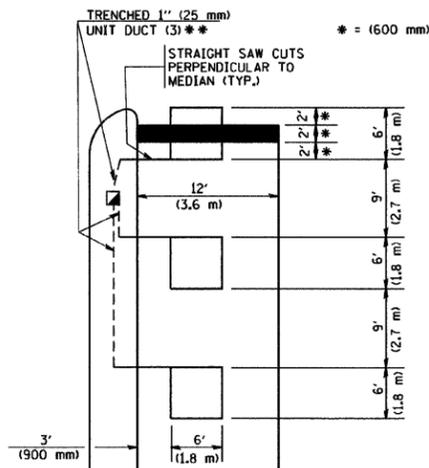


* = (600 mm)

** 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)**

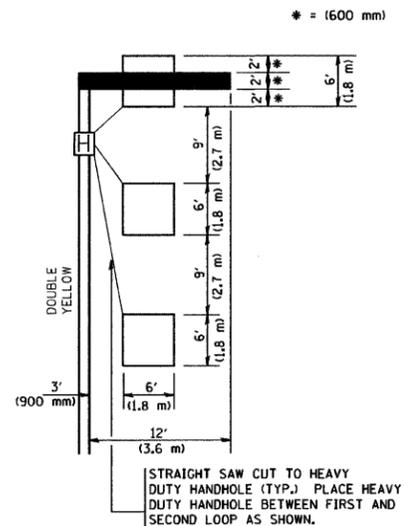
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD B14001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



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

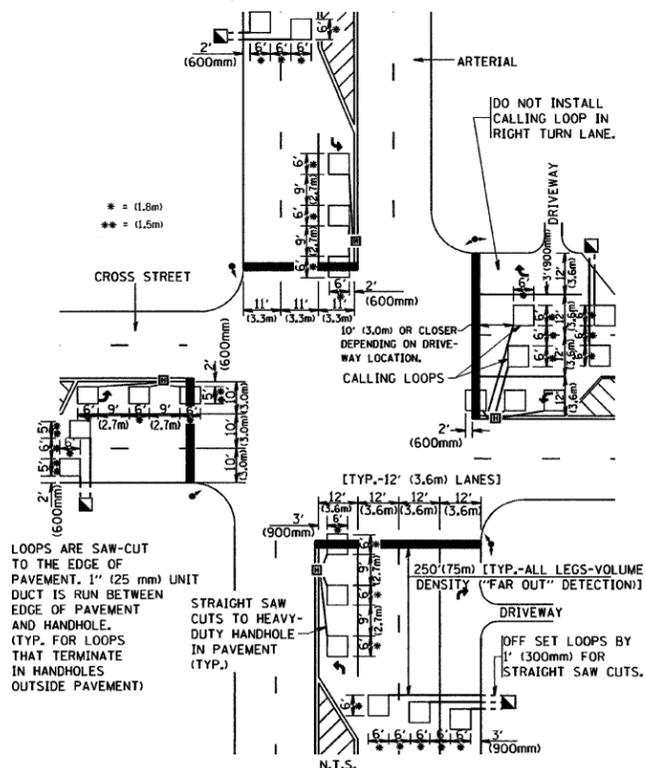
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



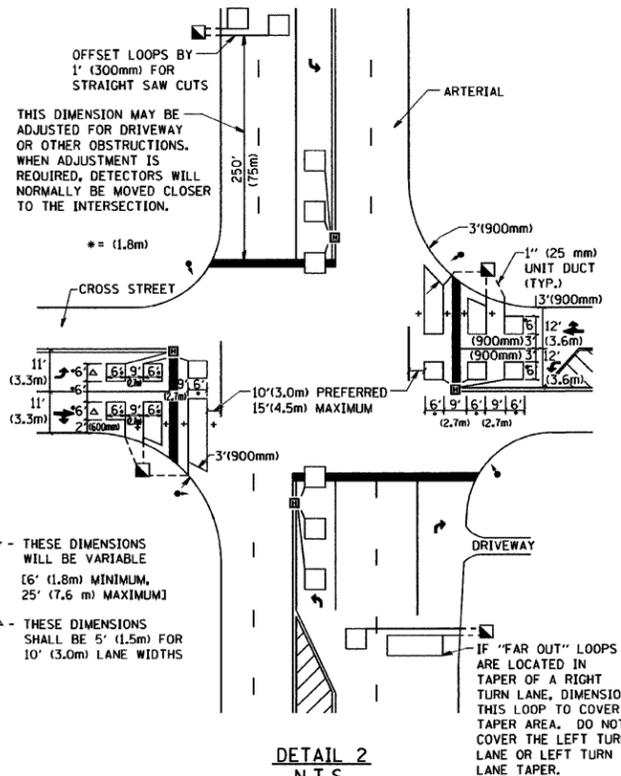
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**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.**

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.

FILE NAME = W:\diststd\22x34\ts07.dgn

USER NAME = goglianobt

DESIGNED -

REVISED -

PLOT SCALE = 50,0000 / IN.

DRAWN -

REVISED -

PLOT DATE = 1/4/2008

CHECKED - R.K.F.

REVISED -

DATE -

REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2743	1316 RS-2	COOK	25	25
TS-07			CONTRACT NO.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				