

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	56 RS-8	LAKE	39	1
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 60E23		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.P. 352 / IL 137
SECTION: 56 RS-8
MARTIN LUTHER KING DRIVE TO WEST OF U.S. 41
RESURFACING (3P)
PROJECT: ESP-0352 (012)
LAKE COUNTY
C-91-344-08

SHIELDS TOWNSHIP
R. 12 E.

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION:
POSTED SPEED : 30 TO 50 M.P.H.
2008 ADT = 23,000

PROJECT LOCATED IN THE CITY OF NORTH CHICAGO



DISTRICT ONE - DESIGN PROJECT MANAGER: ISAAC KWARTENG (847) 705-4230

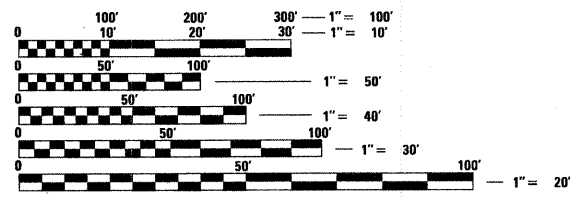
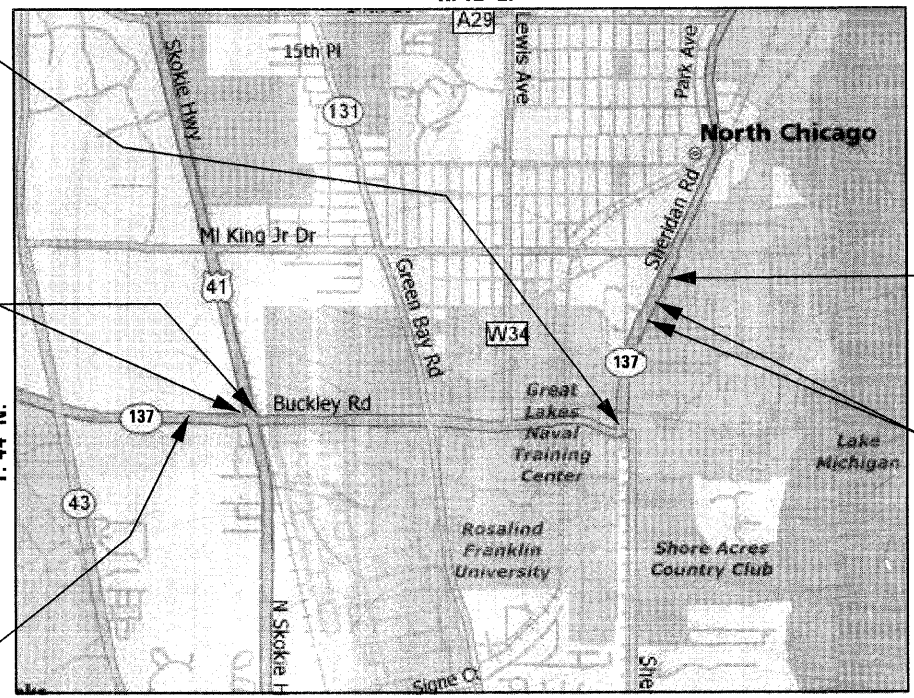
STATION EQUATION
STA. 123 + 44 = STA. 0 + 50

OMISSION IL 137
STA. 41 + 39.7 TO
STA. 42 + 20.2

PROJECT ENDS
STA. 39 + 26

OMISSION IL 137
STA. 27 + 00 TO
STA. 30 + 00

PROJECT BEGINS
STA. 26 + 24.7



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 LOCATING INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

GROSS LENGTH OF PROJECT = 13,595.30 FEET = 2.575 MILES
NET LENGTH OF PROJECT = 13,214.80 FEET = 2.503 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JANUARY 9, 2009
Diane M. O'Keefe DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER
March 27, 2009
Charles J. Ingersoll ENGINEER OF DESIGN AND ENVIRONMENT
March 27, 2009
Christine M. Reed DIRECTOR OF HIGHWAYS, CHIEF ENGINEER



Birinder S. Sachdeva January 8, 2009
BIRINDER S. SACHDEVA, P.E. DATE
EXPIRES: 11-30-2009

DESIGN SECTION ENGINEER :
CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS - PLANNERS - SURVEYORS
211 W. WACKER DRIVE CHICAGO, IL. 60606
TELEPHONE: 312-372-2023

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

CONTRACT NO. 60E23

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, LIST OF STATE STANDARDS AND GENERAL NOTES
3	SUMMARY OF QUANTITIES IL 137 (BUCKLEY RD.)
4	TYPICAL SECTIONS IL 137 (BUCKLEY RD.)
5 - 12	ROADWAY AND PAVEMENT MARKING PLAN IL 137 (BUCKLEY RD.)
13 - 21	DETECTOR LOOP REPLACEMENT PLANS IL 137 (BUCKLEY RD.)
22	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
23	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
25	BUTT JOINT AND HMA TAPER DETAILS
26	HMA TAPER AT EDGE OF PCC PAVEMENT
27	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE AND MULTI-LANE WEAVE
28	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
29	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)
30	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS (SHEET 1 OF 2)
31	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS (SHEET 2 OF 2)
32	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
33	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
34	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
35	TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
36	ARTERIAL ROAD INFORMATION SIGN
37	TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS
38	TRAFFIC CONTROL DETAILS FOR FREEWAY CENTER LANE CLOSURE SHOULDER LANE
39	DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

LIST OF STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
442201-03	CLASS C AND D PATCHES
604001-03	FRAME AND LIDS, TYPE 1
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701406-05	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701602-06	URBAN LANE CLOSURE, MULTILANE, 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

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
2. 10 FEET TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER ITEMS OF WORK TO EXISTING CURBS AND GUTTERS AND CONDITIONS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, GREAT LAKES NAVAL TRAINING CENTER AND THE CITY OF NORTH CHICAGO.
4. 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.
5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
6. SAW CUTTING PRIOR TO ANY REMOVAL ITEMS NOTED ON THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS BEING REMOVED.
7. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
8. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
9. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 40 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
10. UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.
11. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
12. THE CONTRACTOR SHALL CONTACT DEBBIE HANLON, THE AREA TRAFFIC FIELD ENGINEER, AT (847) 438-2300 AT LEAST TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
13. 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" INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
14. REFER TO THE DISTRICT ONE TYPICAL PAVEMENT MARKINGS FOR DETAILS NOT SHOWN.
15. MATCH EXISTING PAVEMENT MARKINGS AT THE PROJECT AND OMISSION LIMITS. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
16. TEMPORARY RAMPS AT BUTT JOINTS SHALL BE INCLUDED IN THE COST OF THE BUTT JOINT AS SHOWN ON THE BUTT JOINT DETAIL SHEET.
17. PARTIAL DEPTH LONGITUDINAL PATCHES SHALL BE 3' WIDE BY 3" DEEP AND SHALL BE USED ON LONGITUDINAL JOINTS WITH A LARGE SEPARATION OR JOINTS PREVIOUSLY FILLED WITH COLD PATCH.
18. THE CONTRACTOR SHALL COORDINATE THE SUSPENSION OF ALL WORK ON THE PROJECT, BETWEEN THE WESTERLY LIMIT AND GREEN BAY ROAD, FOR A TWO WEEK PERIOD DURING THE DETOUR OF IL. RTE. 176 TRAFFIC ON TO IL. RTE. 137. SEE THE SPECIAL PROVISION "IL. RTE 176 DETOUR COORDINATION" FOR ADDITIONAL DETAILS.
19. THE CONTRACTOR SHALL COORDINATE THE WORK ACTIVITIES WITH THE GREAT LAKES NAVAL STATION. IN ADDITION, WORK ACTIVITIES SHALL BE RESTRICTED, AS DIRECTED BY THE ENGINEER, ON FRIDAYS DURING GRADUATION CEREMONIES. SEE THE SPECIAL PROVISION "GREAT LAKES NAVAL STATION COORDINATION" FOR ADDITIONAL DETAILS.

URBAN 100% FED

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	1000-2A
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	93	93
40600300	AGGREGATE (PRIME COAT)	TON	528	528
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	106	106
40600895	CONSTRUCTING TEST STRIP	EACH	2	2
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	658	658
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	2,204	2,204
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	2,118	2,118
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	156	156
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	12,944	12,944
42001300	PROTECTIVE COAT	SQ YD	569	569
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	106,611	106,611
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1,982	1,982
44002220	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 5"	SQ YD	7,565	7,565
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	2,916	2,916
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	439	439
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	1,019	1,019
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SQ YD	25	25
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SQ YD	250	250
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SQ YD	3,621	3,621
△ 55039700	STORM SEWERS TO BE CLEANED	FOOT	7,000	7,000
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	2	2
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	2	2
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	47	47
60404950	FRAMES AND GRATES, TYPE 24	EACH	10	10
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	10	10
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9
67100100	MOBILIZATION	L SUM	1	1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602 701406	L SUM	1	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1

URBAN 100% FED

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	1000-2A
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	48,000	48,000
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	4,358	4,358
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	82,638	82,638
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	3,358	3,358
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	14,666	14,666
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	12,772	12,772
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	2,216	2,216
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	2,796	2,796
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	16,000	16,000
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	2,179	2,179
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	41,319	41,319
* 78000300	THERMOPLASTIC PAVEMENT MARKING - LINE 5"	FOOT	1,679	1,679
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	7,333	7,333
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	6,386	6,386
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1,108	1,108
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1,398	1,398
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	894	894
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	894	894
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	6,515	6,515
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	52	52
X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	5,547	5,547
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	4,579	4,579
X4422030	PARTIAL DEPTH REMOVAL 3"	SQ YD	930	930
△ Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	175	175
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
⊙ Z0076600	TRAINEES	Hour	1500	1500

△ = NON-PARTICIPATING 100% STATE

⊙ Y080

* SPECIALTY ITEM

FILE NAME = D16BE23-shr-500.dgn
DATE = 1/13/2009



CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED	-	K.R.K.	REVISED	-
DRAWN	-	A.C.S.	REVISED	-
CHECKED	-	S.J.P.	REVISED	-
DATE	-	JANUARY 13, 2009	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

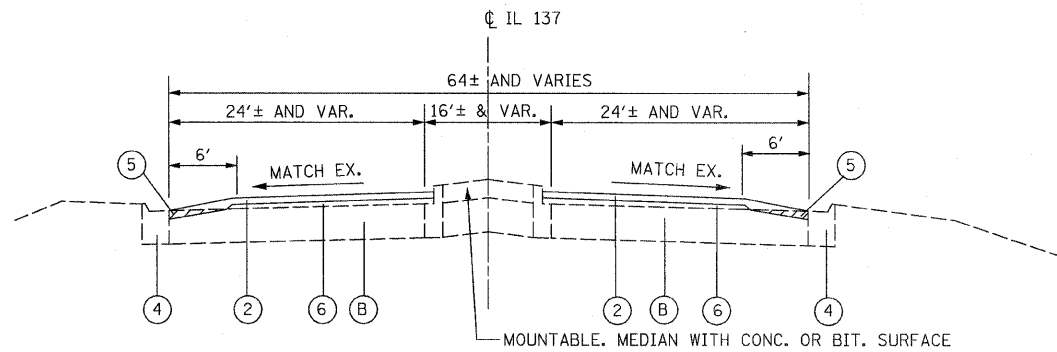
SUMMARY OF QUANTITIES
IL 137 (BUCKLEY ROAD)

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

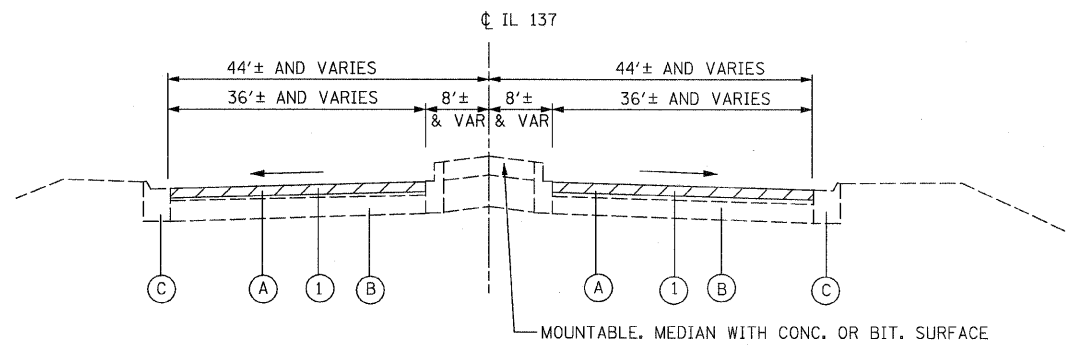
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	3R-15-B	LAKE	39	3
FED. ROAD DIST. NO.			CONTRACT NO. 6CE23	
ILLINOIS FED. AID PROJECT				

HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
ROADWAY NAME	MIXTURE TYPE	AC TYPE	AIR VOIDS
IL 137	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm)	PG 64-22	4% @ 70 GYR
	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	SBS/SBR PG 76-28/22	4% @ 50 GYR
	CLASS D PATCHES (HMA BINDER, IL-19)	* PG 64-22	4% @ 70 GYR.
	HMA REPLACEMENT OVER PATCHES (HMA BINDER, IL-19)	* PG 64-22	4% @ 70 GYR.

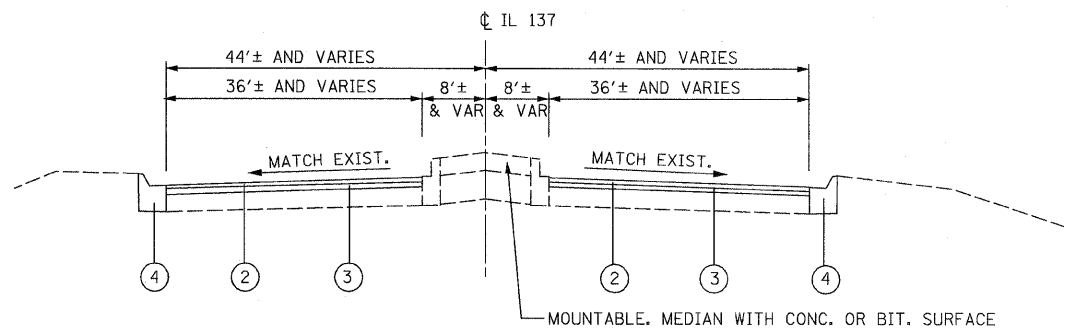
* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.
THE UNIT WEIGHT USED TO CALCULATE ALL HMA MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.



STA. 35+06 TO STA. 41+39.7
STA. 42+20.2 TO STA. 66+00



STA. 26+24.7 TO STA. 35+06
STA. 66+00 TO STA. 124+19



STA. 26+24.7 TO STA. 35+06
STA. 66+00 TO STA. 124+19

* THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.

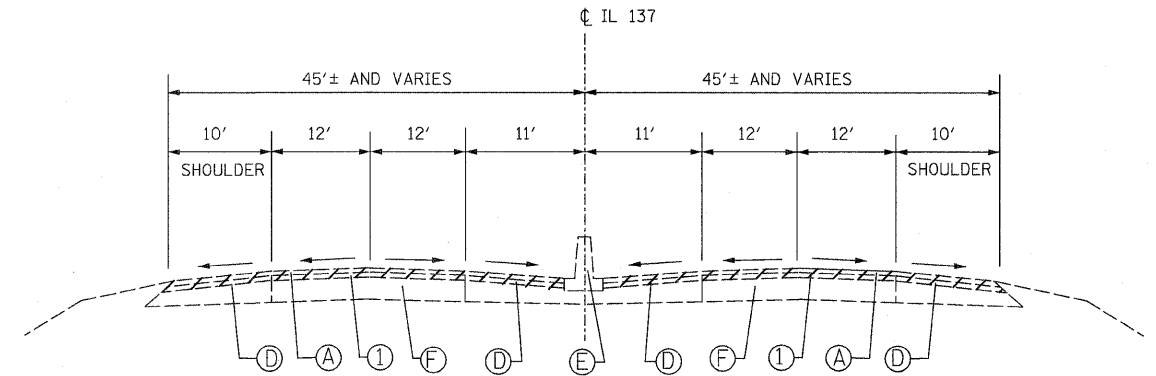
EXISTING CONDITIONS:

- (A) HOT-MIX ASPHALT SURFACE AND BINDER COURSE
- (B) P.C.C. PAVEMENT, 10"
- (C) COMBINATION CONCRETE CURB AND GUTTER
- (D) BITUMINOUS SHOULDER, 10"
- (E) CONC. BARRIER MEDIAN
- (F) HOT-MIX ASPHALT BINDER COURSE, 12 1/2"

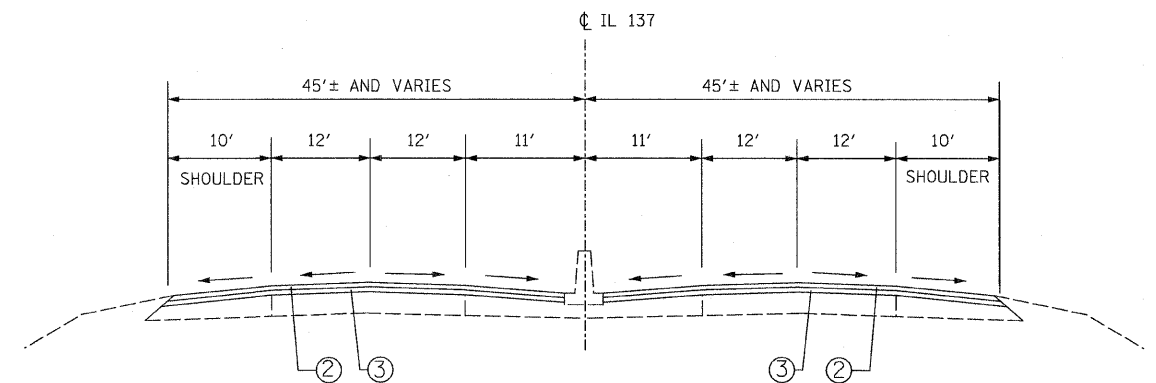
BUCKLEY ROAD, 3"
AMSTUTZ EXPRESSWAY, 1 1/2"

PROPOSED IMPROVEMENTS:

- (1) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (2) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 3/4"
- (3) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- (4) COMB. CONC. CURB AND GUTTER REMOVAL AND REPLACEMENT
- (5) P.C.C. SURFACE REMOVAL VARIABLE DEPTH (SEE HMA TAPER AT EDGE OF P.C.C. PAVEMENT DETAIL)
- (6) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"



STA. 0+50 TO STA. 39+26
(OMISSION STA. 27+00 TO 30+00, APPROACH SLAB AND BRIDGE)



STA. 0+50 TO STA. 39+26
(OMISSION STA. 27+00 TO 30+00, APPROACH SLAB AND BRIDGE)

FILE NAME = D160E23-shr-typical.dgn
PLOT DATE = 2/18/2009

CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - K.R.K.
DRAWN - A.C.S.
CHECKED - S.J.P.
DATE - FEBRUARY 10, 2009

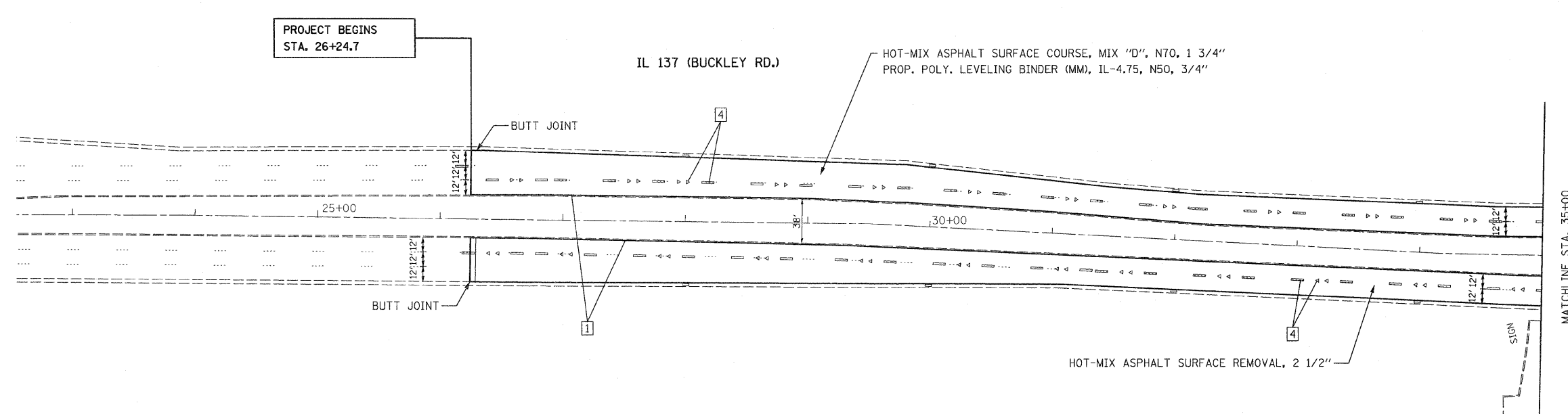
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
IL 137 (BUCKLEY ROAD /AMSTUTZ EXPRESSWAY)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	56 RS-8	LAKE	39	4
CONTRACT NO. 60E23				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- LEGEND**
- ◀ ONE WAY AMBER MARKER
 - ◁ ONE WAY CRYSTAL MARKER
 - ◆ TWO WAY AMBER MARKER

- LEGEND**
- | | | |
|---|--|---|
| <ul style="list-style-type: none"> 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE) 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW - 10' DASH, 30' SKIP) 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE) 4 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP W/ 2 CRYSTAL / OPAQUE RPM'S) 5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP) | <ul style="list-style-type: none"> 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE) 7 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE) 8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE) 9 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR) 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.) 11 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 5' C-C @ 45° | <ul style="list-style-type: none"> 12 THERMOPLASTIC PAVEMENT MARKING - LINE 5" WHITE LANE LINES, 10' DASH, 30' 13 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE EDGE LINE 14 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 30' C-C @ 45° 15 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE) 16 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 15' C-C @ 45° |
|---|--|---|

FILE NAME = 0160E23-shr-pmkA1.dgn
 PLOT DATE = 1/13/2009

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

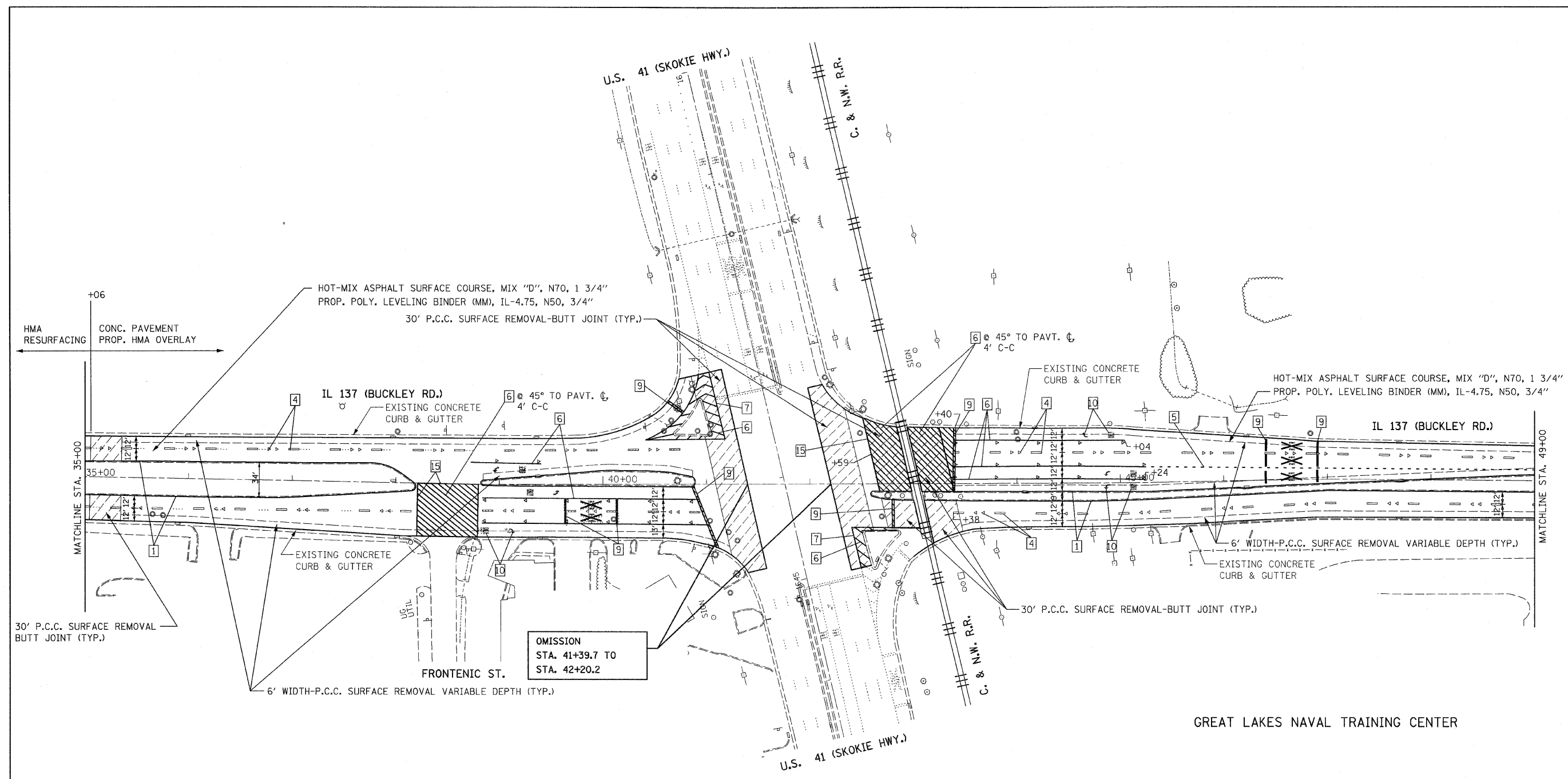
DESIGNED - K.R.K.	REVISED -
DRAWN - A.C.S.	REVISED -
CHECKED - S.J.P.	REVISED -
DATE - JANUARY 13, 2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY AND PAVEMENT MARKING PLAN
IL 137 (BUCKLEY ROAD)

SCALE: 1" = 50' SHEET NO. 1 OF 8 SHEETS STA. 26+24.7 TO STA. 35+00

F.A.P. RTE. 352	SECTION 56 RS-8	COUNTY LAKE	TOTAL SHEETS 39	SHEET NO. 5
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 60E23				



- LEGEND**
- ▲ ONE WAY AMBER MARKER
 - ◁ ONE WAY CRYSTAL MARKER
 - ◆ TWO WAY AMBER MARKER

- LEGEND**
- | | | |
|---|--|---|
| <ul style="list-style-type: none"> 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE) 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW - 10' DASH, 30' SKIP) 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE) 4 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP W/ 2 CRYSTAL / OPAQUE RPM'S) 5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP) | <ul style="list-style-type: none"> 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE) 7 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE) 8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE) 9 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR) 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.) 11 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 5' C-C @ 45° | <ul style="list-style-type: none"> 12 THERMOPLASTIC PAVEMENT MARKING - LINE 5" WHITE LANE LINES, 10' DASH, 30' 13 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE EDGE LINE 14 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 30' C-C @ 45° 15 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE) 16 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 15' C-C @ 45° |
|---|--|---|

FILE NAME = D160E23-shr-pmk1.dgn
 PLOT DATE = 1/13/2009

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

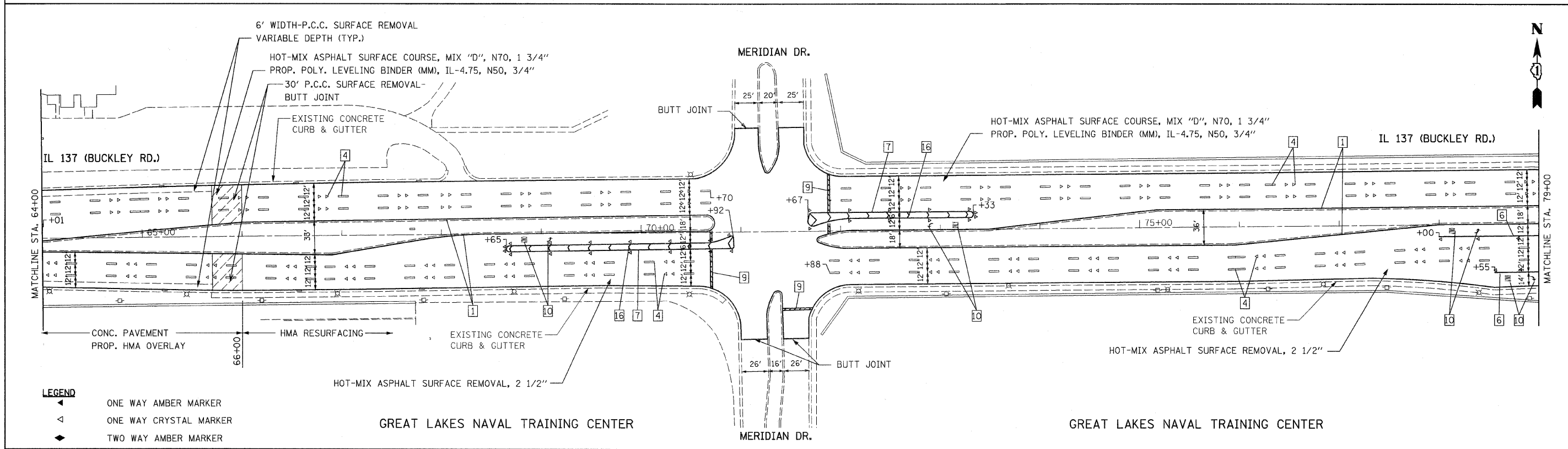
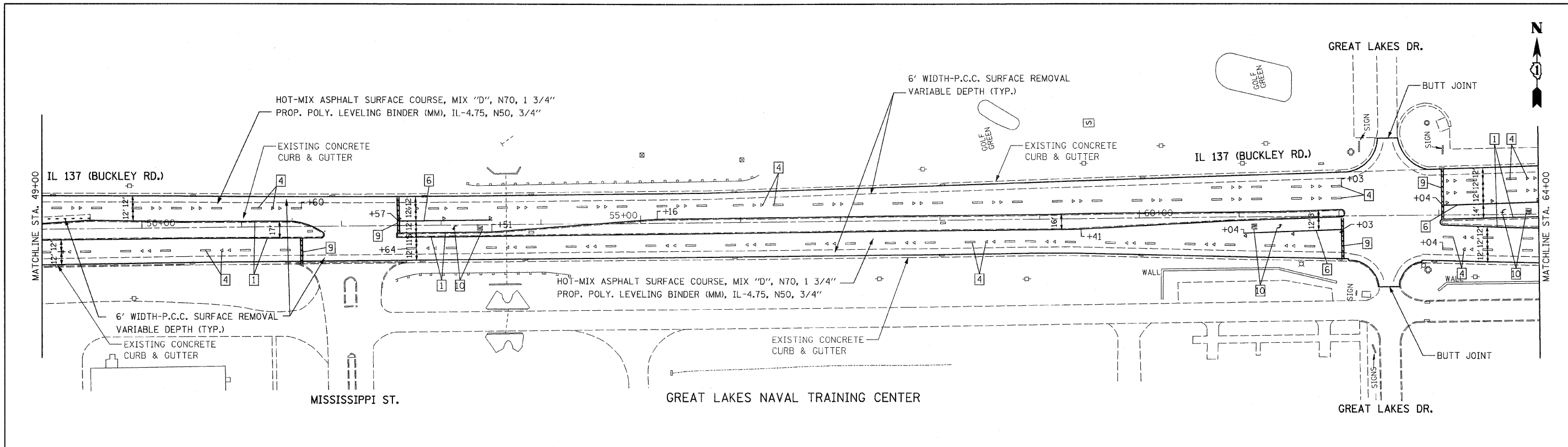
DESIGNED -	K.R.K.	REVISED -	
DRAWN -	A.C.S.	REVISED -	
CHECKED -	S.J.P.	REVISED -	
DATE -	JANUARY 13, 2009	REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY AND PAVEMENT MARKING PLAN
 IL 137 (BUCKLEY ROAD)**

SCALE: 1" = 50' SHEET NO. 2 OF 8 SHEETS STA. 35+00 TO STA. 49+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	56 RS-8	LAKE	39	6
CONTRACT NO. 60E23				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

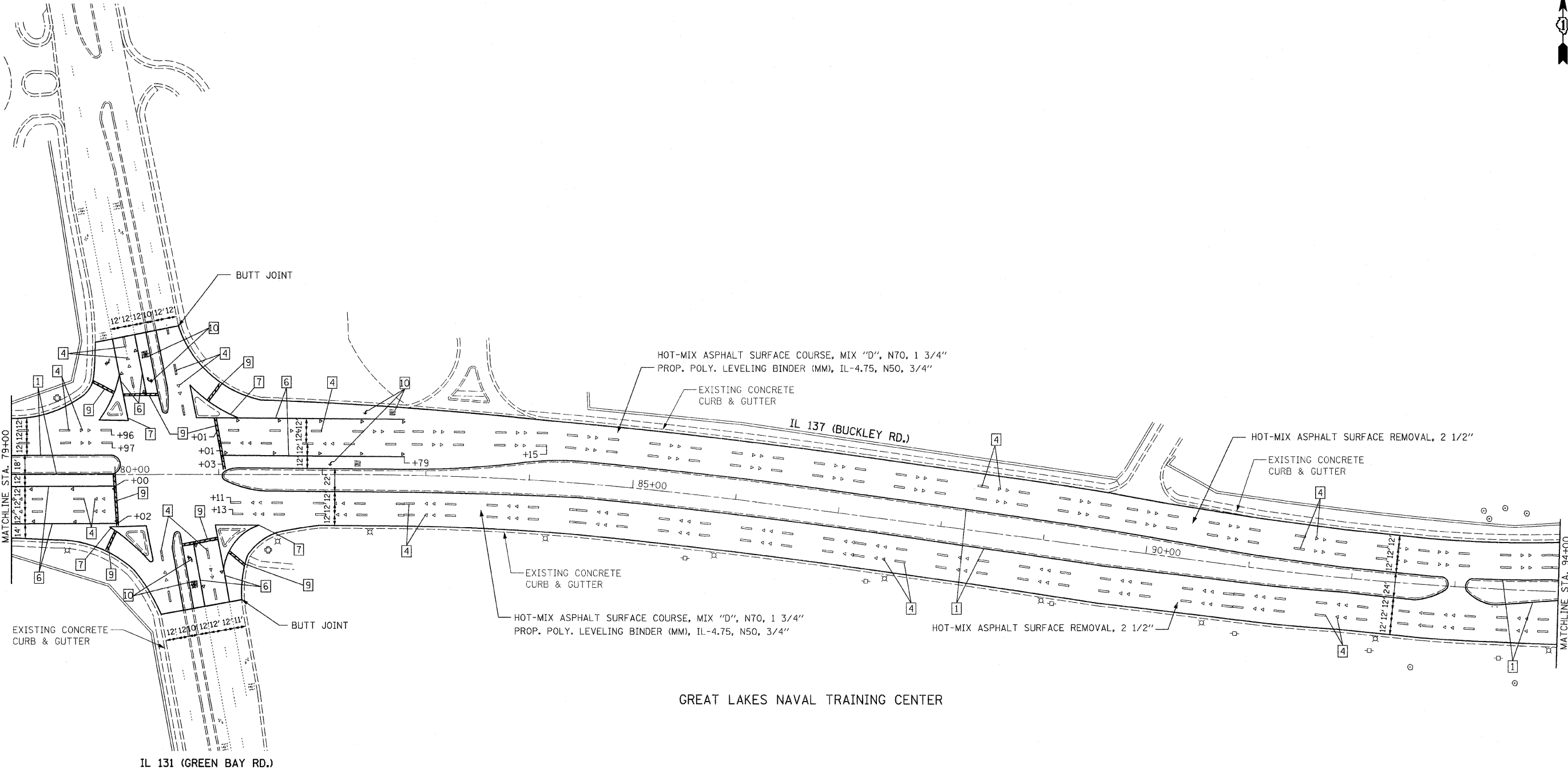


- LEGEND**
- ▲ ONE WAY AMBER MARKER
 - ◁ ONE WAY CRYSTAL MARKER
 - ◆ TWO WAY AMBER MARKER

- LEGEND**
- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)
 - 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW - 10' DASH, 30' SKIP)
 - 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE)
 - 4 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP W/ 2 CRYSTAL / OPAQUE RPM'S)
 - 5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)
 - 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)
 - 7 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)
 - 8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE)
 - 9 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR)
 - 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)
 - 11 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 5' C-C @ 45°
 - 12 THERMOPLASTIC PAVEMENT MARKING - LINE 5" WHITE LANE LINES, 10' DASH, 30'
 - 13 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE EDGE LINE
 - 14 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 30' C-C @ 45°
 - 15 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)
 - 16 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 15' C-C @ 45°

FILE NAME = D168E23-shr-pmk2.dgn PLOT DATE = 1/13/2009		DESIGNED - K.R.K.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN IL 137 (BUCKLEY ROAD)	F.A.P. RTE. 352	SECTION 56 RS-8	COUNTY LAKE	TOTAL SHEETS 39	SHEET NO. 7
		DRAWN - A.C.S.	REVISED -			SCALE: 1" = 50'	SHEET NO. 3 OF 8 SHEETS	STA. 49+00 TO STA. 79+00	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	CONTRACT NO. 60E23

IL 131 (GREEN BAY RD.)



- LEGEND**
- ▲ ONE WAY AMBER MARKER
 - ◁ ONE WAY CRYSTAL MARKER
 - ◆ TWO WAY AMBER MARKER

- LEGEND**
- | | | |
|---|--|---|
| <ul style="list-style-type: none"> 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE) 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW - 10' DASH, 30' SKIP) 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE) 4 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP W/ 2 CRYSTAL / OPAQUE RPM'S) 5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP) | <ul style="list-style-type: none"> 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE) 7 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE) 8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE) 9 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR) 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.) 11 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 5' C-C @ 45° | <ul style="list-style-type: none"> 12 THERMOPLASTIC PAVEMENT MARKING - LINE 5" WHITE LANE LINES, 10' DASH, 30' 13 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE EDGE LINE 14 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 30' C-C @ 45° 15 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE) 16 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 15' C-C @ 45° |
|---|--|---|

FILE NAME = D160E23-eh-t-pmk3.dgn
PLOT DATE = 1/13/2009

CHRISTIAN-ROGE & ASSOCIATES, INC.
ENGINEERS-PLANNERS-SURVEYORS
211 WEST WACKER DRIVE
CHICAGO, ILLINOIS 60606
PHONE: (312)372-2023 FAX: (312)372-5274

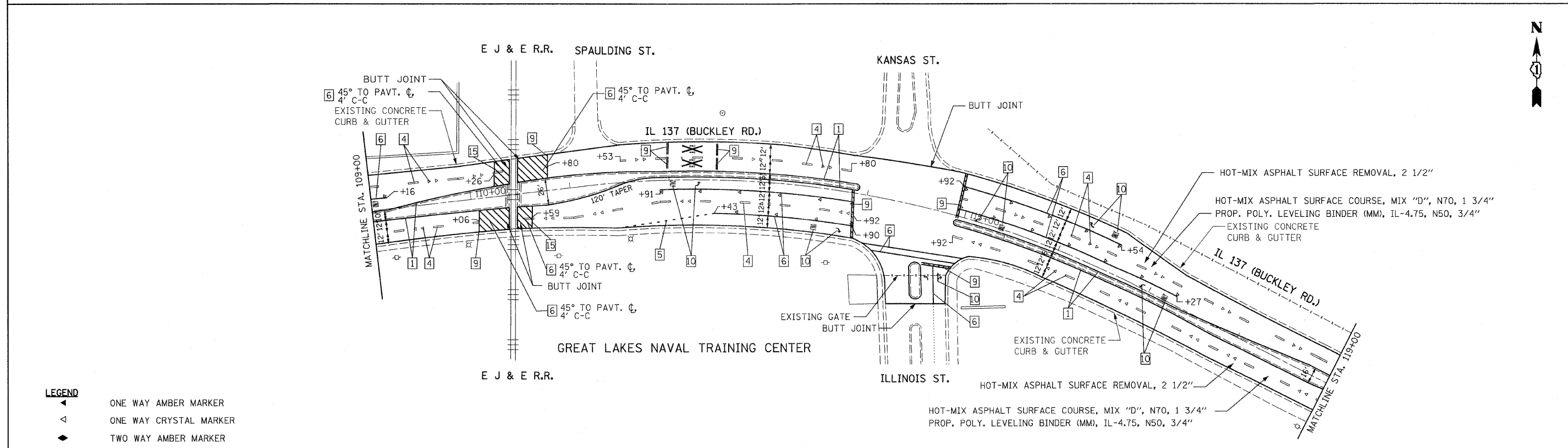
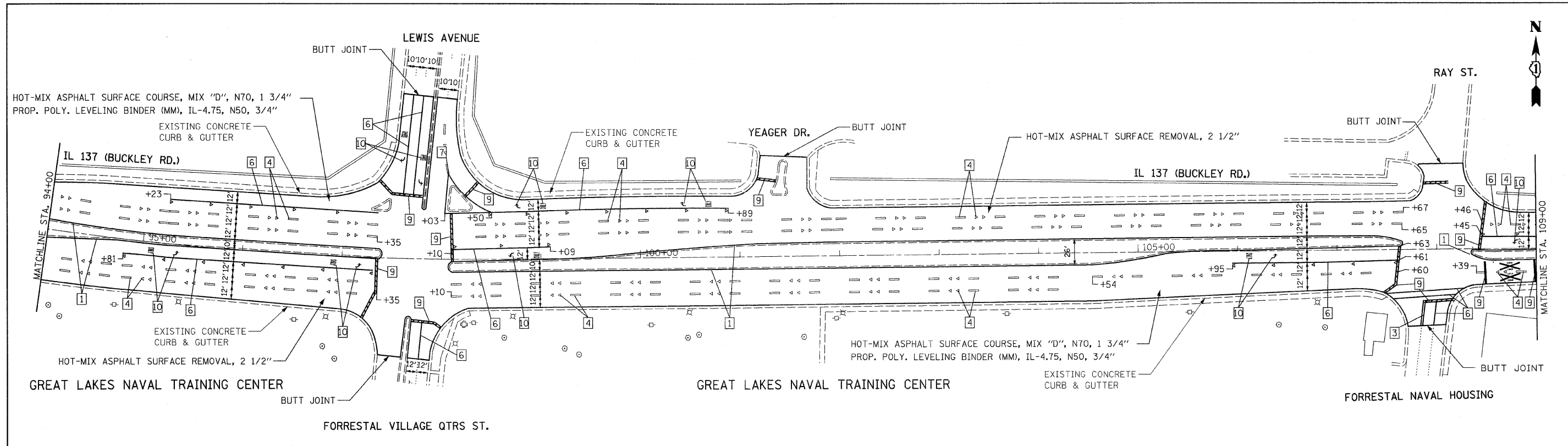
DESIGNED - K.R.K.	REVISED -
DRAWN - A.C.S.	REVISED -
CHECKED - S.J.P.	REVISED -
DATE - JANUARY 13, 2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY AND PAVEMENT MARKING PLAN
IL 137 (BUCKLEY ROAD)

SCALE: 1" = 50' SHEET NO. 4 OF 8 SHEETS STA. 79+00 TO STA. 94+00

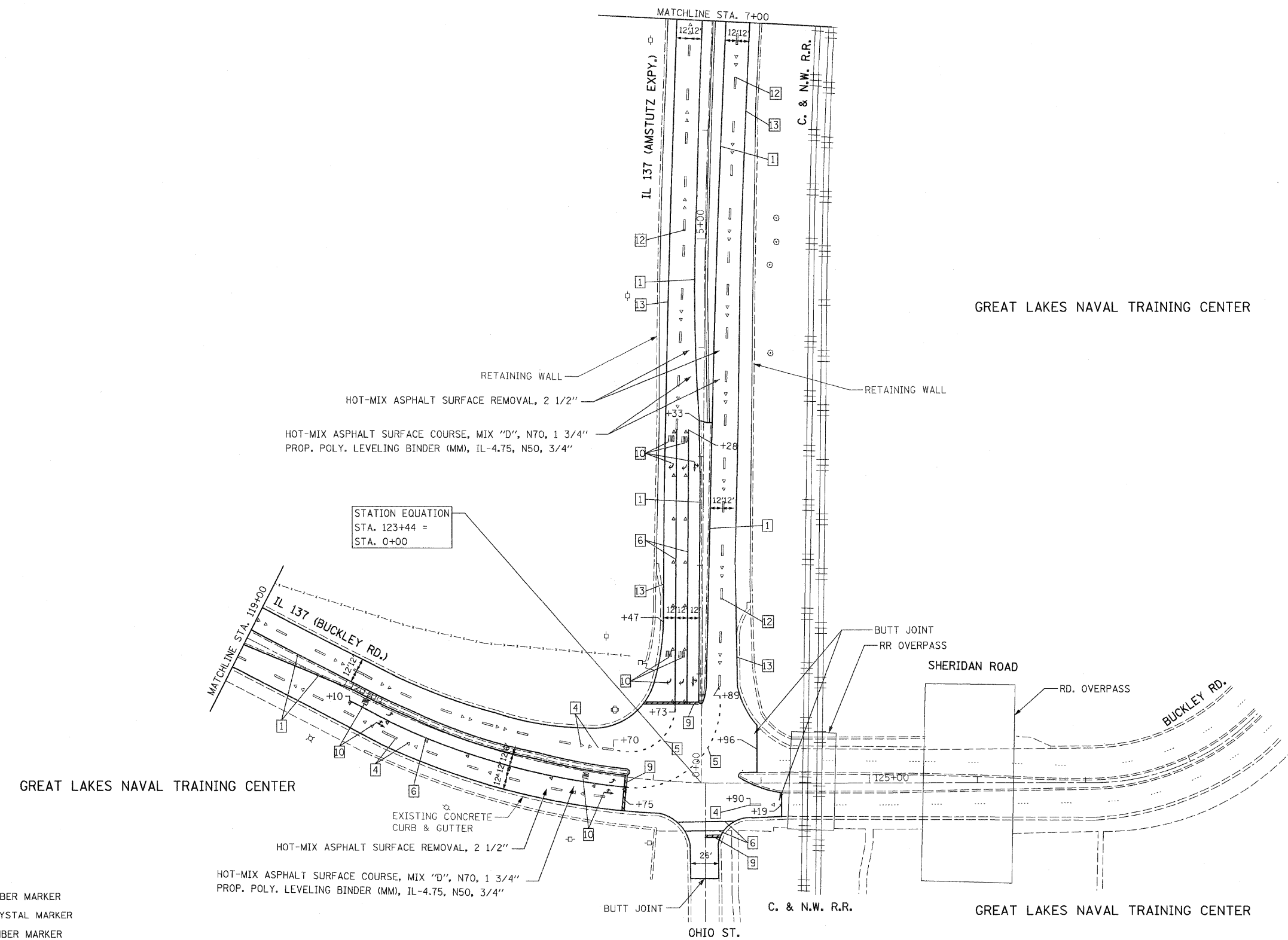
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	56 R5-8	LAKE	39	8
CONTRACT NO. 60E23				
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				



- LEGEND**
- ◀ ONE WAY AMBER MARKER
 - ◁ ONE WAY CRYSTAL MARKER
 - ◆ TWO WAY AMBER MARKER


- LEGEND**
- | | | |
|---|--|---|
| <ul style="list-style-type: none"> 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE) 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW - 10' DASH, 30' SKIP) 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE) 4 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP W/ 2 CRYSTAL / OPAQUE RPM'S) 5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP) | <ul style="list-style-type: none"> 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE) 7 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE) 8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE) 9 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR) 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.) 11 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 5' C-C @ 45° | <ul style="list-style-type: none"> 12 THERMOPLASTIC PAVEMENT MARKING - LINE 5" WHITE LANE LINES, 10' DASH, 30' 13 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE EDGE LINE 14 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 30' C-C @ 45° 15 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE) 16 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 15' C-C @ 45° |
|---|--|---|

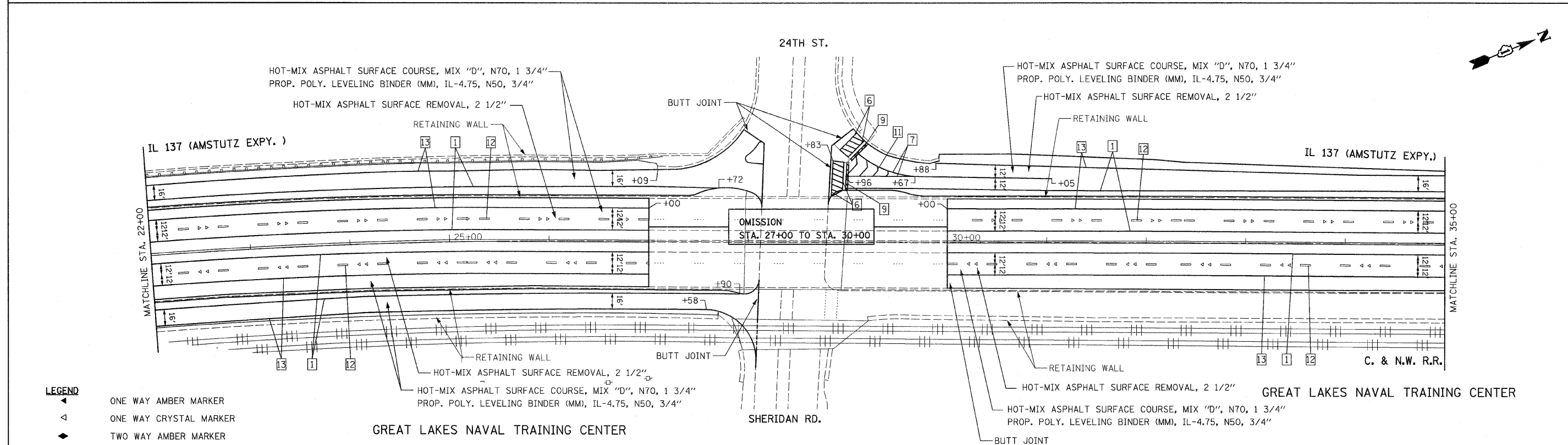
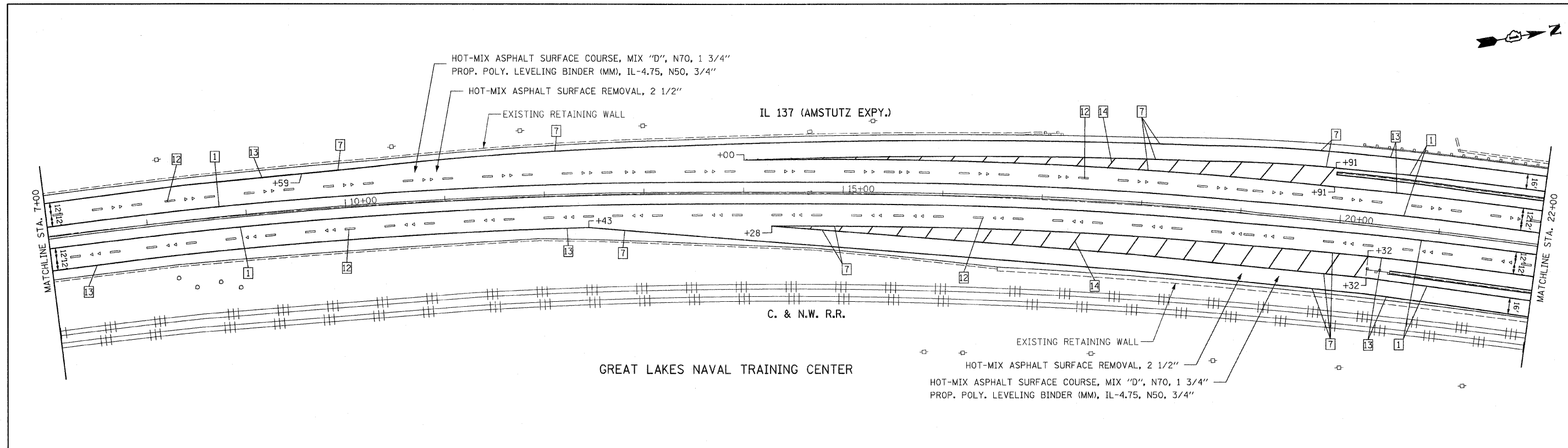
FILE NAME = D168E23-shct-pmk4.dgn PLOT DATE = 1/13/2009	CHRISTIAN-ROGE & ASSOCIATES, INC. ENGINEERS-PLANNERS-SURVEYORS 211 WEST WACKER DRIVE CHICAGO, ILLINOIS 60606 PHONE: (312)372-2023 FAX: (312)372-9274	DESIGNED - K.R.K. DRAWN - A.C.S. CHECKED - S.J.P. DATE - JANUARY 13, 2009	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN IL 137 (BUCKLEY ROAD)	F.A.P. RTE. 352 SECTION 56 RS-8 COUNTY LAKE TOTAL SHEETS 39 SHEETS 9	CONTRACT NO. 60E23 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
SCALE: 1" = 50' SHEET NO. 5 OF 8 SHEETS STA. 94+00 TO STA. 119+00							



- LEGEND**
- ◀ ONE WAY AMBER MARKER
 - ◁ ONE WAY CRYSTAL MARKER
 - ◆ TWO WAY AMBER MARKER

- LEGEND**
- | | | |
|---|--|---|
| <ul style="list-style-type: none"> 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE) 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW - 10' DASH, 30' SKIP) 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE) 4 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP W/ 2 CRYSTAL / OPAQUE RPM'S) 5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP) | <ul style="list-style-type: none"> 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE) 7 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE) 8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE) 9 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR) 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.) 11 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 5' C-C @ 45° | <ul style="list-style-type: none"> 12 THERMOPLASTIC PAVEMENT MARKING - LINE 5" WHITE LANE LINES, 10' DASH, 30' 13 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE EDGE LINE 14 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 30' C-C @ 45° 15 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE) 16 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 15' C-C @ 45° |
|---|--|---|

FILE NAME = D160E23-shr-pmk5.dgn PLOT DATE = 1/13/2009	 CHRISTIAN-ROGE & ASSOCIATES, INC. ENGINEERS-PLANNERS-SURVEYORS 211 WEST WACKER DRIVE CHICAGO, ILLINOIS 60606 PHONE: (312)372-2023 FAX: (312)372-5274	DESIGNED - K.R.K. DRAWN - A.C.S. CHECKED - S.J.P. DATE - JANUARY 13, 2009	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN IL 137 (BUCKLEY ROAD) & IL 137 (AMSTUTZ EXPRESSWAY)	F.A.P. RTE. 352 SECTION 56 RS-8 COUNTY LAKE TOTAL SHEETS 39 SHEET NO. 10	CONTRACT NO. 60E23 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
				SCALE: 1" = 50'	SHEET NO. 6 OF 8 SHEETS	STA. 119+00 TO STA. 7+00	



- LEGEND**
- ▲ ONE WAY AMBER MARKER
 - ◁ ONE WAY CRYSTAL MARKER
 - ◆ TWO WAY AMBER MARKER

- LEGEND**
- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)
 - 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW - 10' DASH, 30' SKIP)
 - 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE)
 - 4 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP W/ 2 CRYSTAL / OPAQUE RPM'S)
 - 5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)
 - 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)
 - 7 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)
 - 8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE)
 - 9 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR)
 - 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)
 - 11 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 5' C-C @ 45°
 - 12 THERMOPLASTIC PAVEMENT MARKING - LINE 5" WHITE LANE LINES, 10' DASH, 30'
 - 13 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE EDGE LINE
 - 14 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 30' C-C @ 45°
 - 15 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)
 - 16 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 15' C-C @ 45°

FILE NAME = D160E23-shtr-pmk6.dgn
 PLOT DATE = 1/13/2009

CHRISTIAN-ROGE & ASSOCIATES, INC.
 ENGINEERS-PLANNERS-SURVEYORS
 211 WEST WACKER DRIVE
 CHICAGO, ILLINOIS 60606
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - K.R.K.
 DRAWN - A.C.S.
 CHECKED - S.J.P.
 DATE - JANUARY 13, 2009

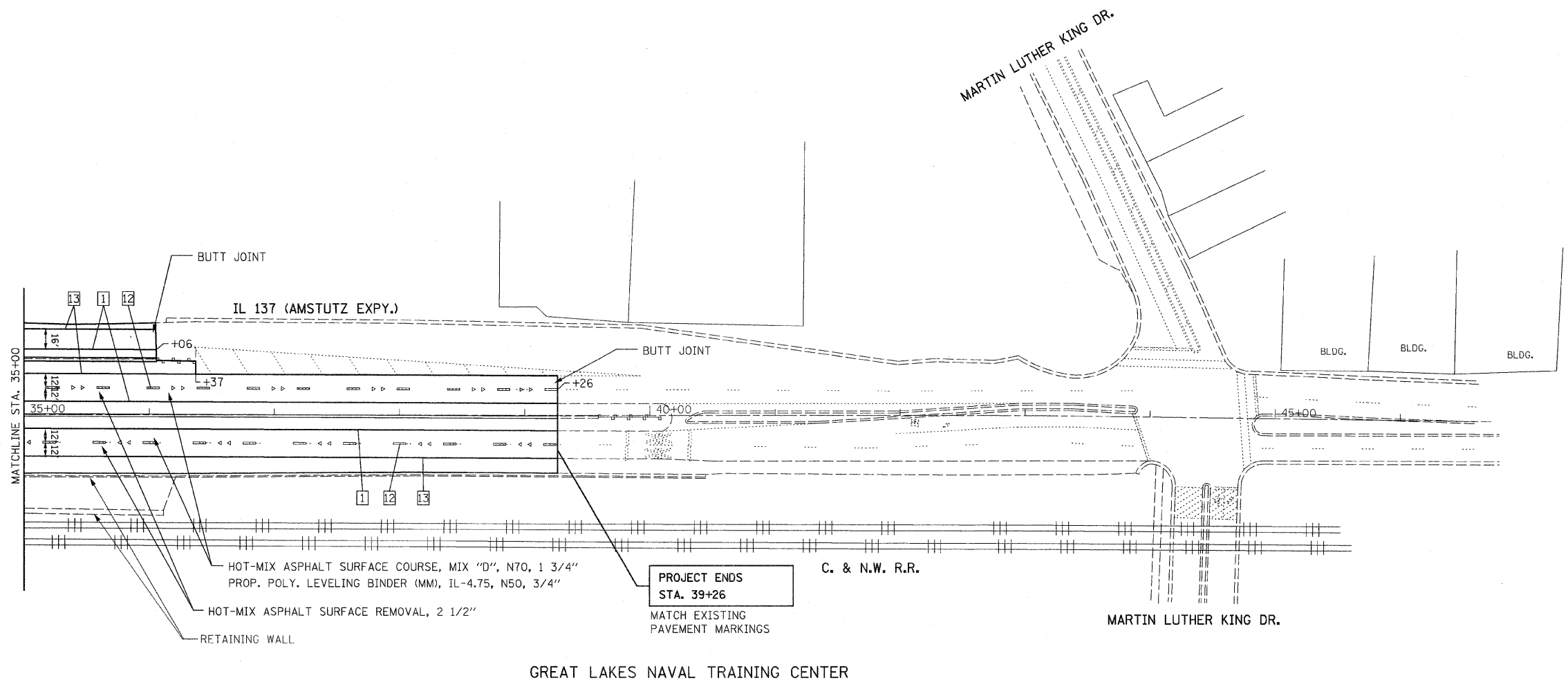
REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY AND PAVEMENT MARKING PLAN
 IL 137 (AMSTUTZ EXPRESSWAY)**

SCALE: 1" = 50' SHEET NO. 7 OF 8 SHEETS STA. 7+00 TO STA. 35+00

F.A.P. RTE. 352	SECTION 56 RS-8	COUNTY LAKE	TOTAL SHEETS 39	SHEET NO. 11
CONTRACT NO. 60E23				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- LEGEND**
- ◀ ONE WAY AMBER MARKER
 - ◁ ONE WAY CRYSTAL MARKER
 - ◆ TWO WAY AMBER MARKER

- LEGEND**
- 1 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID LINE)
 - 2 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW - 10' DASH, 30' SKIP)
 - 3 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW SOLID LINE)
 - 4 THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP W/ 2 CRYSTAL / OPAQUE RPM'S)
 - 5 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE LANE LINE - 2' DASH, 6' SKIP)
 - 6 THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID LINE)
 - 7 THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID LINE)
 - 8 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONAL LINE)
 - 9 THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP BAR)
 - 10 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (TYP.)
 - 11 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 5' C-C @ 45°
 - 12 THERMOPLASTIC PAVEMENT MARKING - LINE 5" WHITE LANE LINES, 10' DASH, 30'
 - 13 THERMOPLASTIC PAVEMENT MARKING - LINE 4" WHITE EDGE LINE
 - 14 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 30' C-C @ 45°
 - 15 THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID LINE)
 - 16 THERMOPLASTIC PAVEMENT MARKING - LINE 12" WHITE DIAGONAL LINE, 15' C-C @ 45°

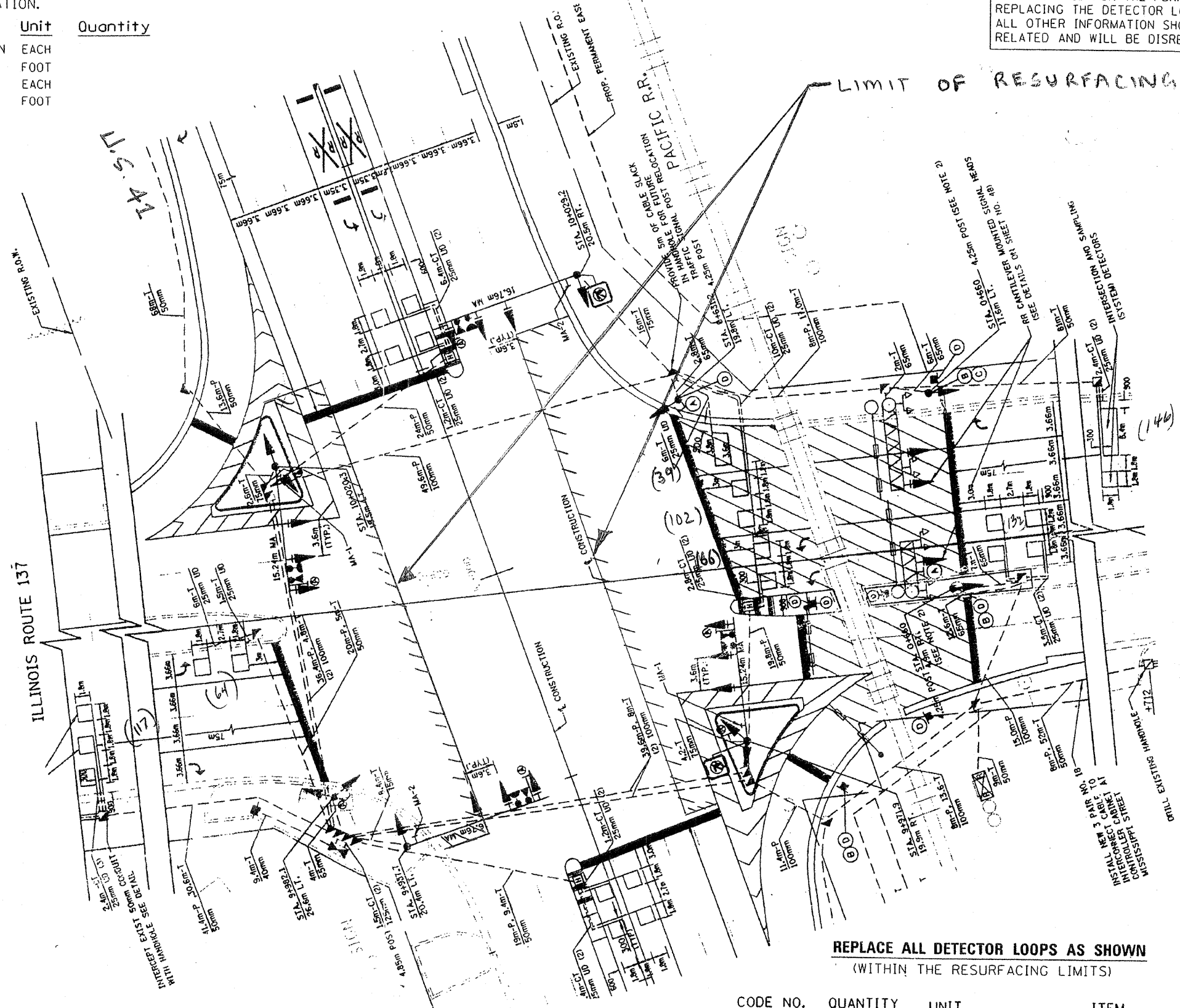
FILE NAME = D160E23-sh1t-pmk7.dgn PLOT DATE = 1/13/2009	CHRISTIAN-ROGE & ASSOCIATES, INC. ENGINEERS-PLANNERS-SURVEYORS 211 WEST WACKER DRIVE CHICAGO, ILLINOIS 60606 PHONE: (312)372-2023 FAX: (312)372-5274	DESIGNED - K.R.K.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLAN IL 137 (AMSTUTZ EXPRESSWAY)	F.A.P. RTE. 352	SECTION 56 RS-8	COUNTY LAKE	TOTAL SHEETS 39	SHEET NO. 12
		DRAWN - A.C.S.	REVISED -			SCALE: 1" = 50' SHEET NO. 8 OF 8 SHEETS STA. 35+00 TO STA. 39+26			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	
		CHECKED - S.J.P.	REVISED -				CONTRACT NO. 60E23			
		DATE - JANUARY 13, 2009	REVISED -							

RESURFACING - TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

The "Pay Items" below are paid separately as per the attached "Specification" for MAGNETIC DETECTOR REMOVAL AND DETECTOR LOOP INSTALLATION.

Code No.	Pay Item	Unit	Quantity
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	
88500100	INDUCTIVE LOOP DETECTOR	EACH	
88600100	DETECTOR LOOP, TYPE 1	FOOT	

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



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

CODE NO.	QUANTITY	UNIT	ITEM
86600600	666	FOOT	DETECTOR LOOP REPLACEMENT

FILE NAME: c:\projects\trf\1070027\us12.20.45.dwg	USER NAME: kanthaphikaybo	DESIGNED: -	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT U.S. RTE. 41 @ ILL. RTE. 137 (BUCKLEY)	F.A. RITE: 352	SECTION: 56 RS-8	COUNTY: LAKE	TOTAL SHEETS: 39	SHEET NO.: 13	
	PLOT SCALE: 40.0000 / IN.	CHECKED: -	REVISED: -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 60E23
	PLOT DATE: 2/29/2008	DATE: -	REVISED: -								
...wafic07042-us12.20.45.dwg 2/28/2008 1:37:00 PM User=kanthaphikaybo											












RESURFACING - TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

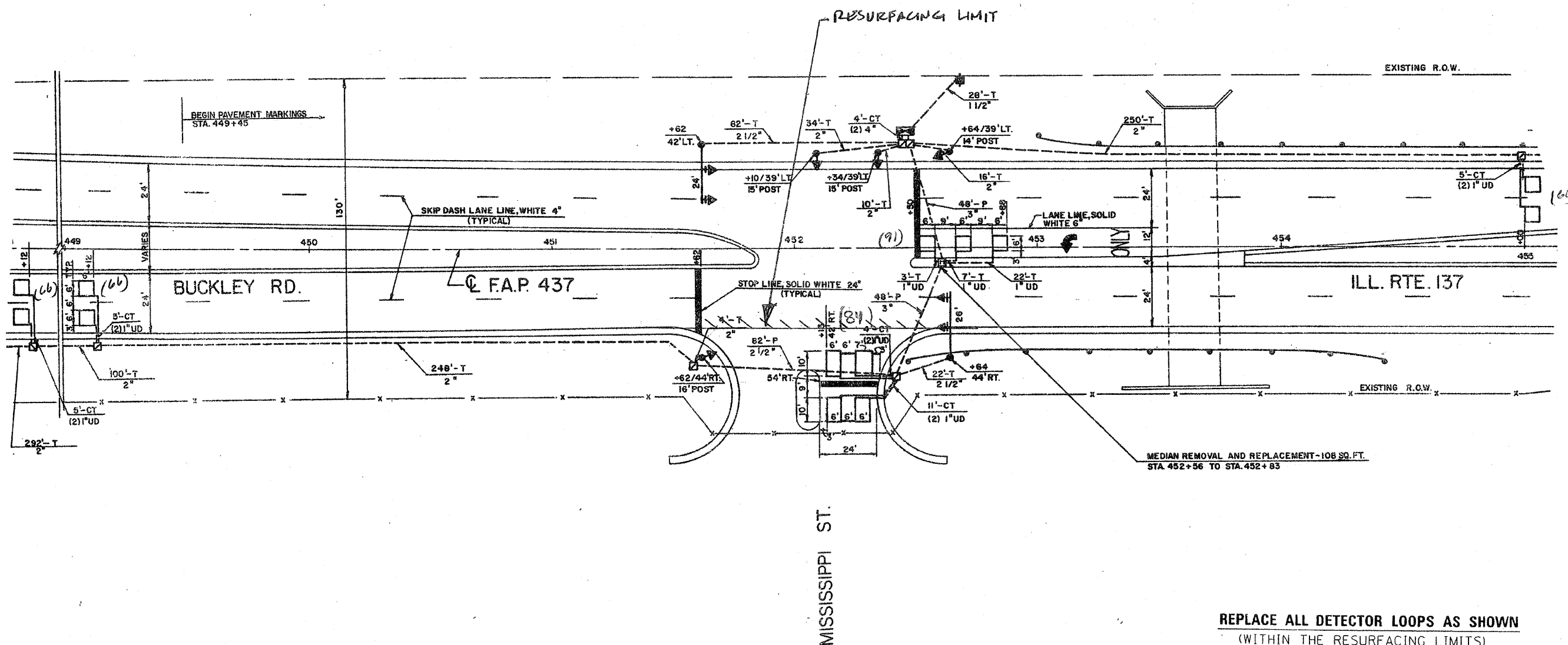
The "Pay Items" below are paid separately as per the attached "Specification" for MAGNETIC DETECTOR REMOVAL AND DETECTOR LOOP INSTALLATION.

Code No.	Pay Item	Unit	Quantity
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	
88500100	INDUCTIVE LOOP DETECTOR	EACH	
88600100	DETECTOR LOOP, TYPE 1	FOOT	

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

TRAFFIC SIGNAL LEGEND

CONTROLLER	
SERVICE INSTALLATION	
SIGNAL HEAD	
SIGNAL HEAD WITH BACKPLATE	
SIGNAL POST	
MAST ARM ASSEMBLY AND POLE, STEEL	
HANDHOLE	
HEAVY DUTY HANDHOLE	
DOUBLE HANDHOLE	
G.S. CONDUIT IN TRENCH OR PUSHED	
DETECTOR LOOP	
COMMON TRENCH	CT
UNIT DUCT	UD



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

CODE NO.	QUANTITY	UNIT	ITEM
86600600	373	FOOT	DETECTOR LOOP REPLACEMENT

FILE NAME	USER NAME	DESIGNED	REVISED
PROJECTS\TRAFFIC\070027\us12.20.45.dwg	kanthapayas		
PLOT SCALE	CHECKED	DATE	REVISED
1/8" = 1'-0"		2/29/2008	
PLOT DATE	DATE		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT
ILL. RTE. 137 @ MISSISSIPPI ST.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	56	LAKE	39	14
CONTRACT NO.				60E23
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

RESURFACING - TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

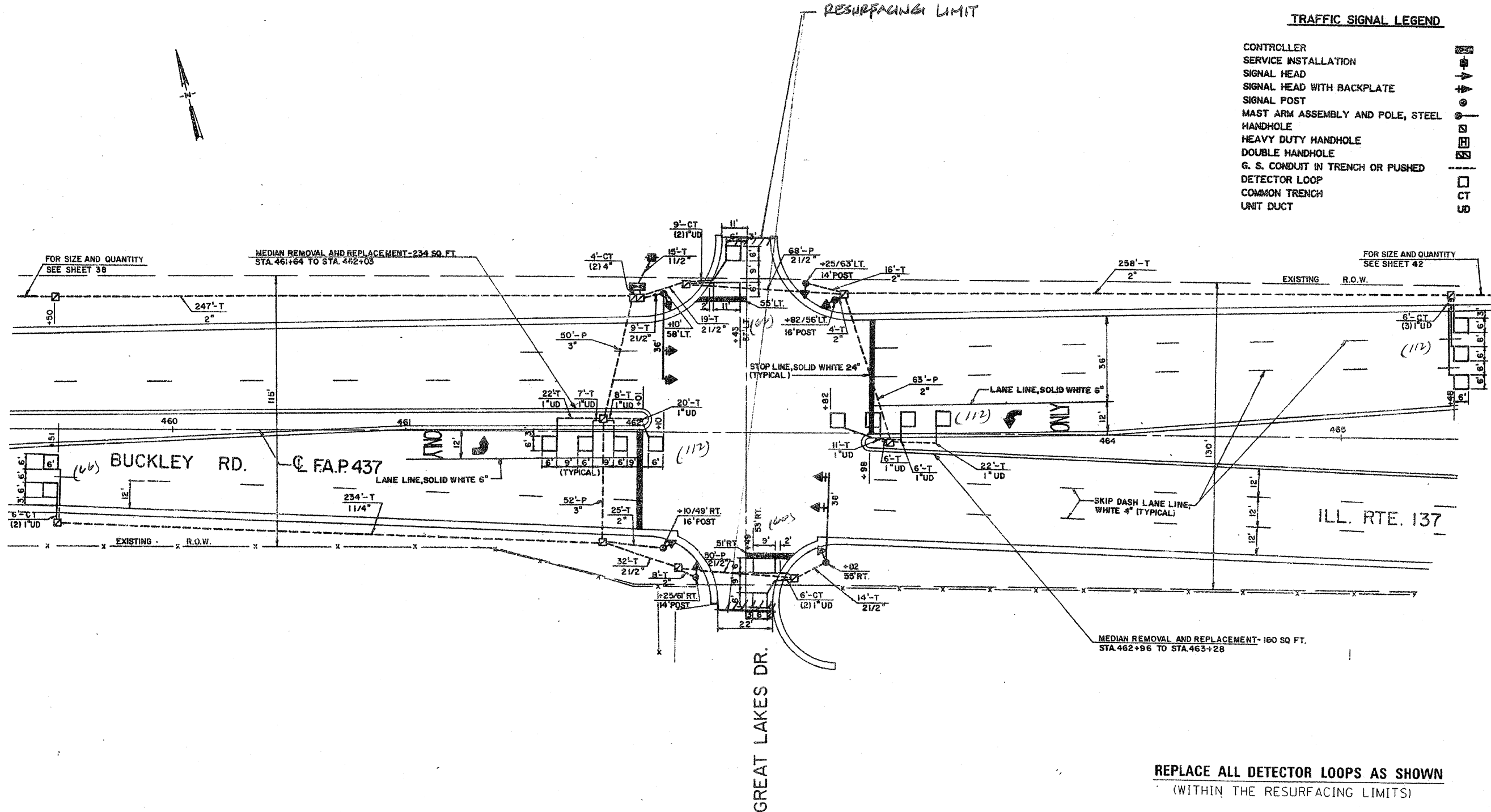
The "Pay Items" below are paid separately as per the attached "Specification" for MAGNETIC DETECTOR REMOVAL AND DETECTOR LOOP INSTALLATION.

Code No.	Pay Item	Unit	Quantity
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	
88500100	INDUCTIVE LOOP DETECTOR	EACH	
88600100	DETECTOR LOOP, TYPE 1	FOOT	

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

TRAFFIC SIGNAL LEGEND

- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL POST
- MAST ARM ASSEMBLY AND POLE, STEEL
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- G. S. CONDUIT IN TRENCH OR PUSHED
- DETECTOR LOOP
- COMMON TRENCH
- UNIT DUCT



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

CODE NO.	QUANTITY	UNIT	ITEM
86600600	524	FOOT	DETECTOR LOOP REPLACEMENT

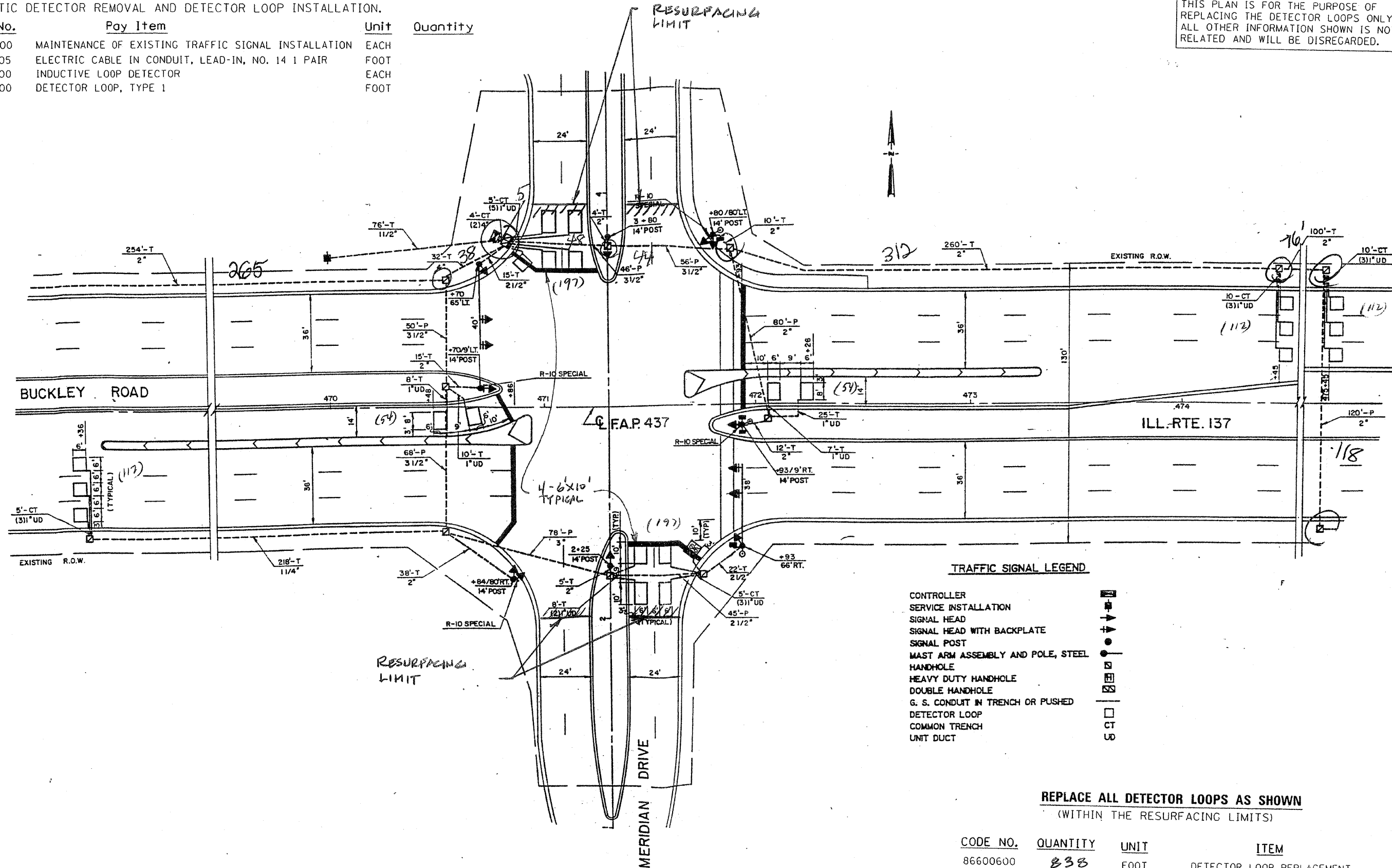
FILE NAME: c:\projects\traffic\870827\us12.20.45.dgn	USER NAME: kenthaprayba	DESIGNED: -	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT ILL. RTE. 137 @ GREAT LAKES DR.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN: -	REVISED: -			352	56	RS-E	LAKE	39	15
		CHECKED: -	REVISED: -			CONTRACT NO. 60E23					
		DATE: 2/29/2008	REVISED: -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

RESURFACING - TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

The "Pay Items" below are paid separately as per the attached "Specification" for MAGNETIC DETECTOR REMOVAL AND DETECTOR LOOP INSTALLATION.

Code No.	Pay Item	Unit	Quantity
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	
88500100	INDUCTIVE LOOP DETECTOR	EACH	
88600100	DETECTOR LOOP, TYPE 1	FOOT	

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



TRAFFIC SIGNAL LEGEND

- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL POST
- MAST ARM ASSEMBLY AND POLE, STEEL
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- G. S. CONDUIT IN TRENCH OR PUSHED
- DETECTOR LOOP
- COMMON TRENCH
- UNIT DUCT

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

CODE NO.	QUANTITY	UNIT	ITEM
86600600	838	FOOT	DETECTOR LOOP REPLACEMENT

FILE NAME: c:\projects\traffic\1070027\us12.20.45.dgn	USER NAME: konthphaybc	DESIGNED: -	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT ILL. RTE. 137 @ MERIDIAN DRIVE	F.A. RTE.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
PLOT SCALE: 40.0000 IN.	CHECKED: -	REVISED: -	352			56 RS-8	LAKE	39	16	
PLOT DATE: 2/29/2008	DATE: -	REVISED: -	CONTRACT NO. 60E25							
SCALE: SHEET NO. OF SHEETS STA. TO STA.						FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

RESURFACING - TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

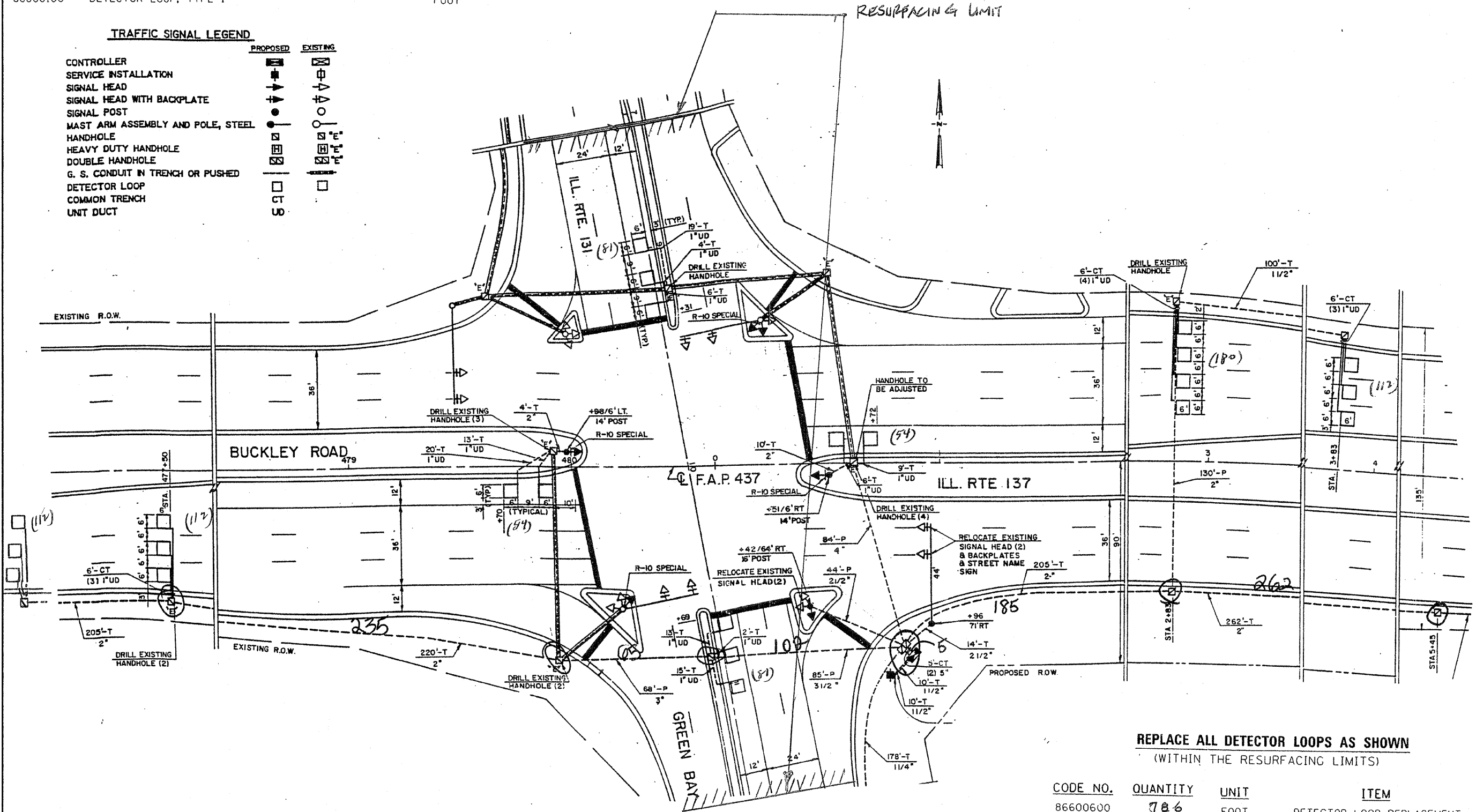
The "Pay Items" below are paid separately as per the attached "Specification" for MAGNETIC DETECTOR REMOVAL AND DETECTOR LOOP INSTALLATION.

Code No.	Pay Item	Unit	Quantity
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	
88500100	INDUCTIVE LOOP DETECTOR	EACH	
88600100	DETECTOR LOOP, TYPE 1	FOOT	

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

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G. S. CONDUIT IN TRENCH OR PUSHED	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
UNT DUCT	[Symbol]	[Symbol]



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

CODE NO.	QUANTITY	UNIT	ITEM
88600600	786	FOOT	DETECTOR LOOP REPLACEMENT

FILE NAME :	USER NAME : kanthaphixybc	DESIGNED :	REVISED :
c:\projects\tr\off\1070027\us12.20.15.dgn		DRAWN :	REVISED :
		CHECKED :	REVISED :
		DATE :	REVISED :

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT
ILL. RTE. 131 @ ILL. RTE. 137 (G. BAY)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	56 RS-8	LAKE	39	17
CONTRACT NO. 60623			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	

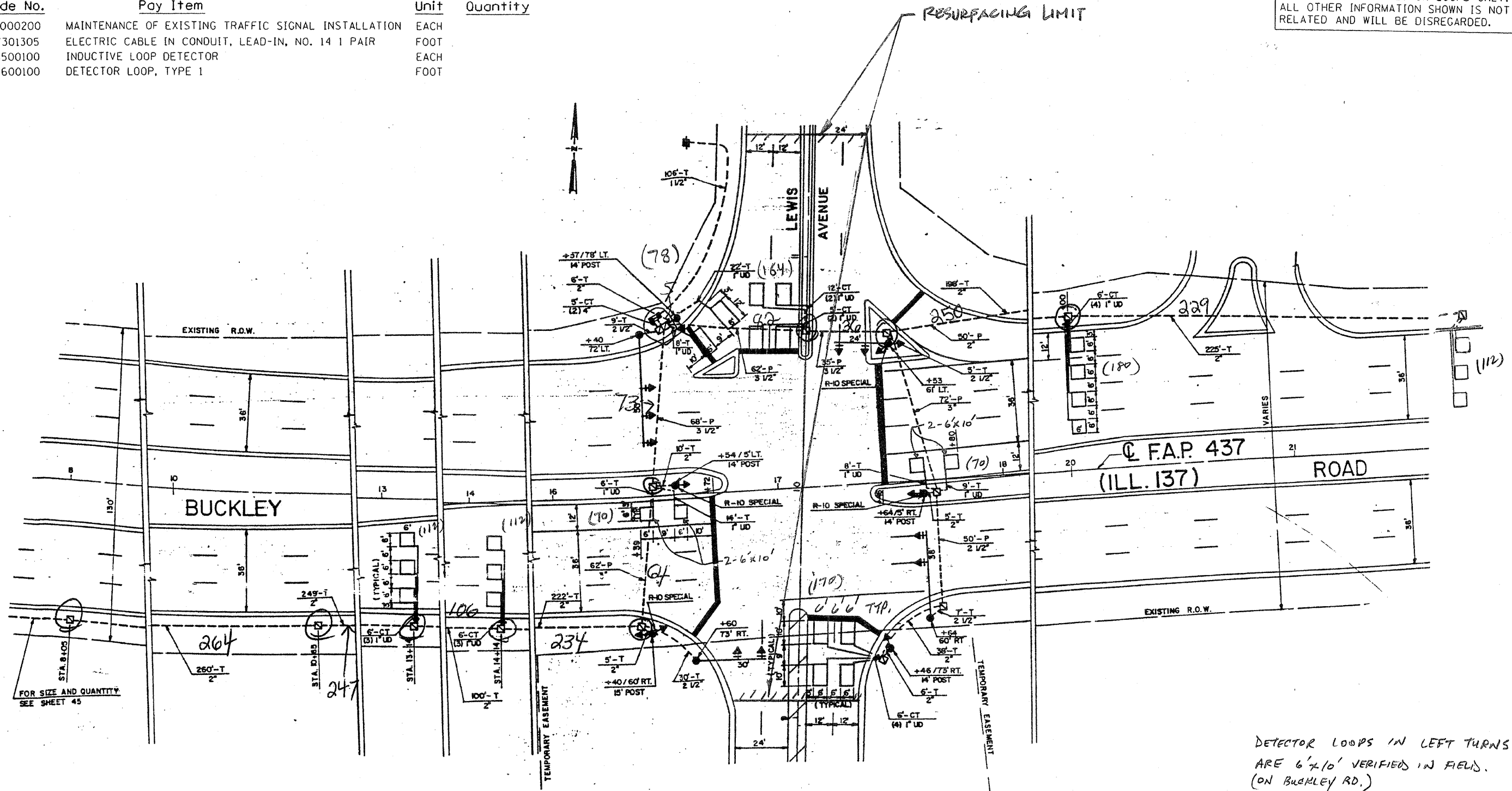
SCALE: SHEET NO. OF SHEETS STA. TO STA.

RESURFACING - TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

The "Pay Items" below are paid separately as per the attached "Specification" for MAGNETIC DETECTOR REMOVAL AND DETECTOR LOOP INSTALLATION.

Code No.	Pay Item	Unit	Quantity
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	
88500100	INDUCTIVE LOOP DETECTOR	EACH	
88600100	DETECTOR LOOP, TYPE 1	FOOT	

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



DETECTOR LOOPS IN LEFT TURNS ARE 6'x10' VERIFIED IN FIELD. (ON BUCKLEY RD.)

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

CODE NO.	QUANTITY	UNIT	ITEM
86600600	1068	FOOT	DETECTOR LOOP REPLACEMENT

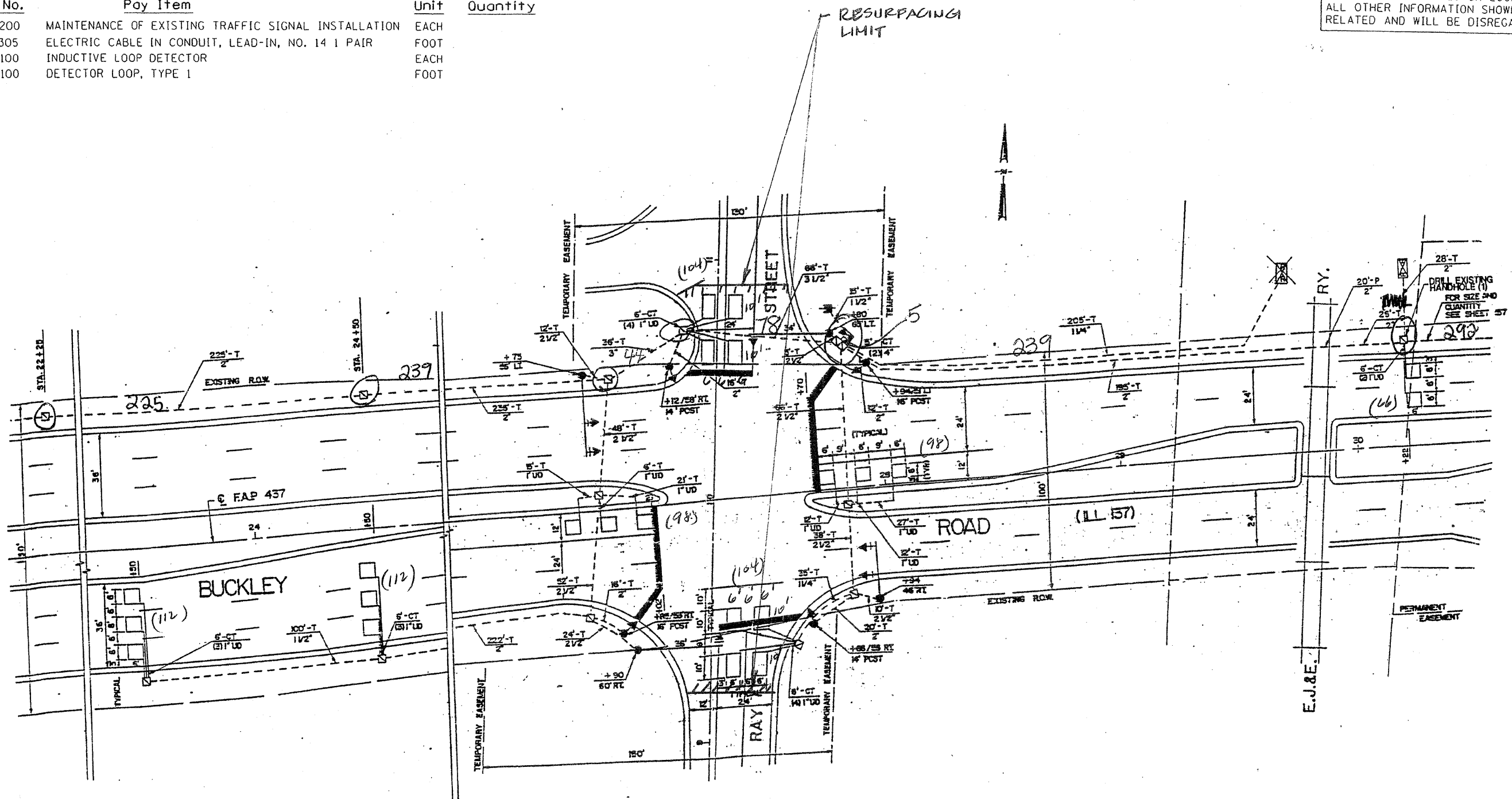
FILE NAME: s:\projects\traffic\1070027\1012.20.45.dgn	USER NAME: kenthphaybo	DESIGNED: -	REVISIONS:	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT ILL. RT. 137 @ LEWIS AVENUE	F.A. RATE: 352	SECTION: 56 RS-8	COUNTY: LAKE	TOTAL SHEETS: 39	SHEET NO.: 18	
		DRAWN: -	REVISIONS: -			SCALE: -	SHEET NO. OF SHEETS: -	STA. TO STA.:	CONTRACT NO. 60E23		
		CHECKED: -	REVISIONS: -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
		DATE: -	REVISIONS: -								

RESURFACING - TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

The "Pay Items" below are paid separately as per the attached "Specification" for MAGNETIC DETECTOR REMOVAL AND DETECTOR LOOP INSTALLATION.

Code No.	Pay Item	Unit	Quantity
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	
88500100	INDUCTIVE LOOP DETECTOR	EACH	
88600100	DETECTOR LOOP, TYPE 1	FOOT	

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



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

CODE NO.	QUANTITY	UNIT	ITEM
86600600	694	FOOT	DETECTOR LOOP REPLACEMENT

FILE NAME :	USER NAME : kanthapriya	DESIGNED -	REVISED -
PROJECT : traffic\070027\us12_20_45.d		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT
ILL. RTE. 137 @ RAY STREET

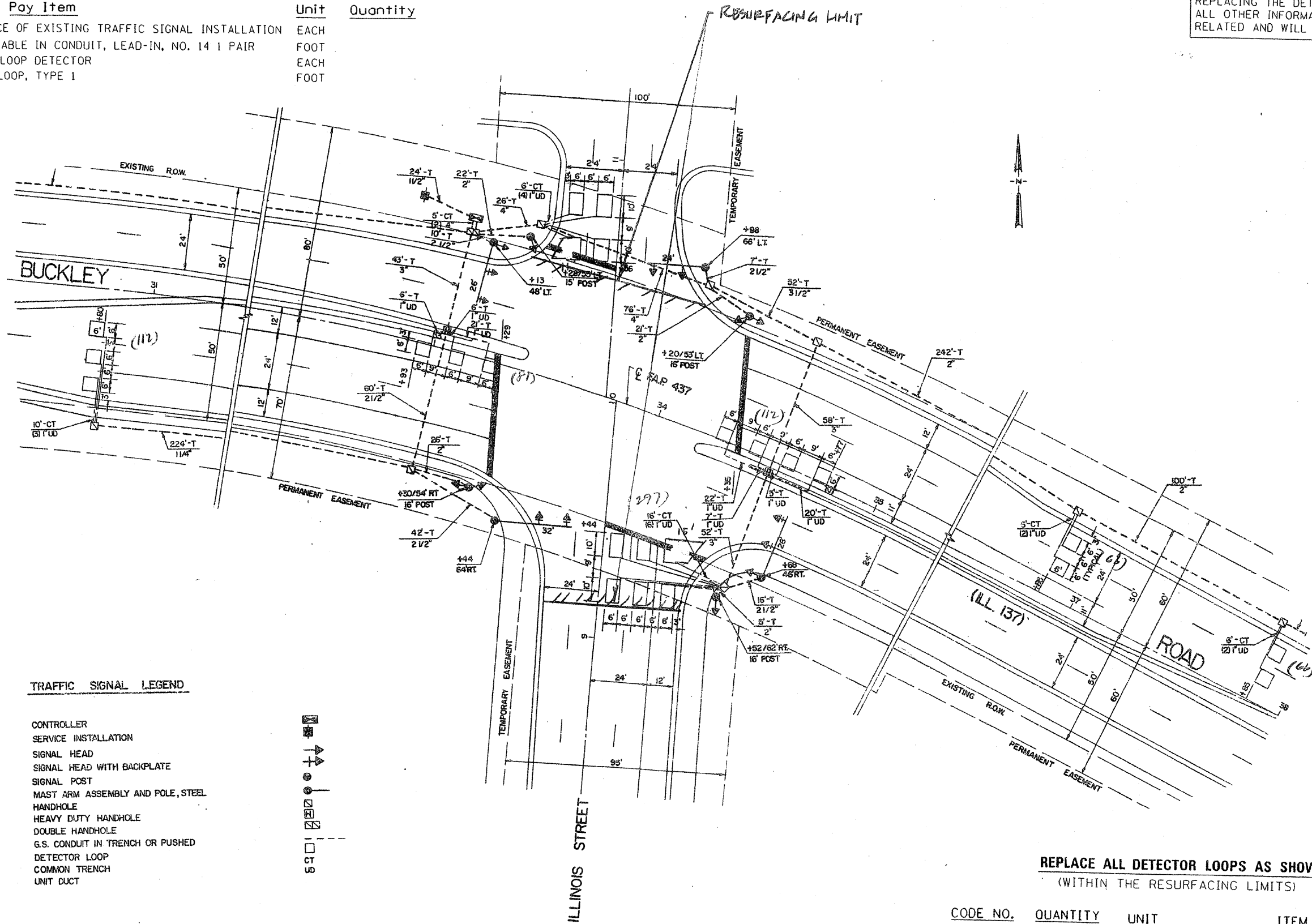
SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	F.A. R.T.E. 352	SECTION 56 R5-8	COUNTY LAKE	TOTAL SHEETS 39	SHEET NO. 19
			CONTRACT NO. 60E-23				

RESURFACING - TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

The "Pay Items" below are paid separately as per the attached "Specification" for MAGNETIC DETECTOR REMOVAL AND DETECTOR LOOP INSTALLATION.

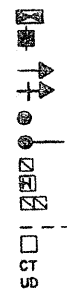
Code No.	Pay Item	Unit	Quantity
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	
88500100	INDUCTIVE LOOP DETECTOR	EACH	
88600100	DETECTOR LOOP, TYPE 1	FOOT	

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



TRAFFIC SIGNAL LEGEND

- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL POST
- MAST ARM ASSEMBLY AND POLE, STEEL
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- G.S. CONDUIT IN TRENCH OR PUSHED
- DETECTOR LOOP
- COMMON TRENCH
- UNIT DUCT



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

CODE NO.	QUANTITY	UNIT	ITEM
86600600	734	FOOT	DETECTOR LOOP REPLACEMENT

FILE NAME: \\projects\traffic\1870027\us12.20.45.dgn	USER NAME: kenthphvaybc	DESIGNED: -	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT ILL. RTE. 137 @ ILLINOIS STREET	F.A. RTE.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
		DRAWN: -	REVISED: -			352	56 RS-8	LAKE	39	20
		CHECKED: -	REVISED: -			CONTRACT NO. 60E23				
		DATE: 2/29/2008	REVISED: -	SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO.:	ILLINOIS FED. AID PROJECT:			

RESURFACING - TRAFFIC SIGNAL SCHEDULE OF QUANTITIES

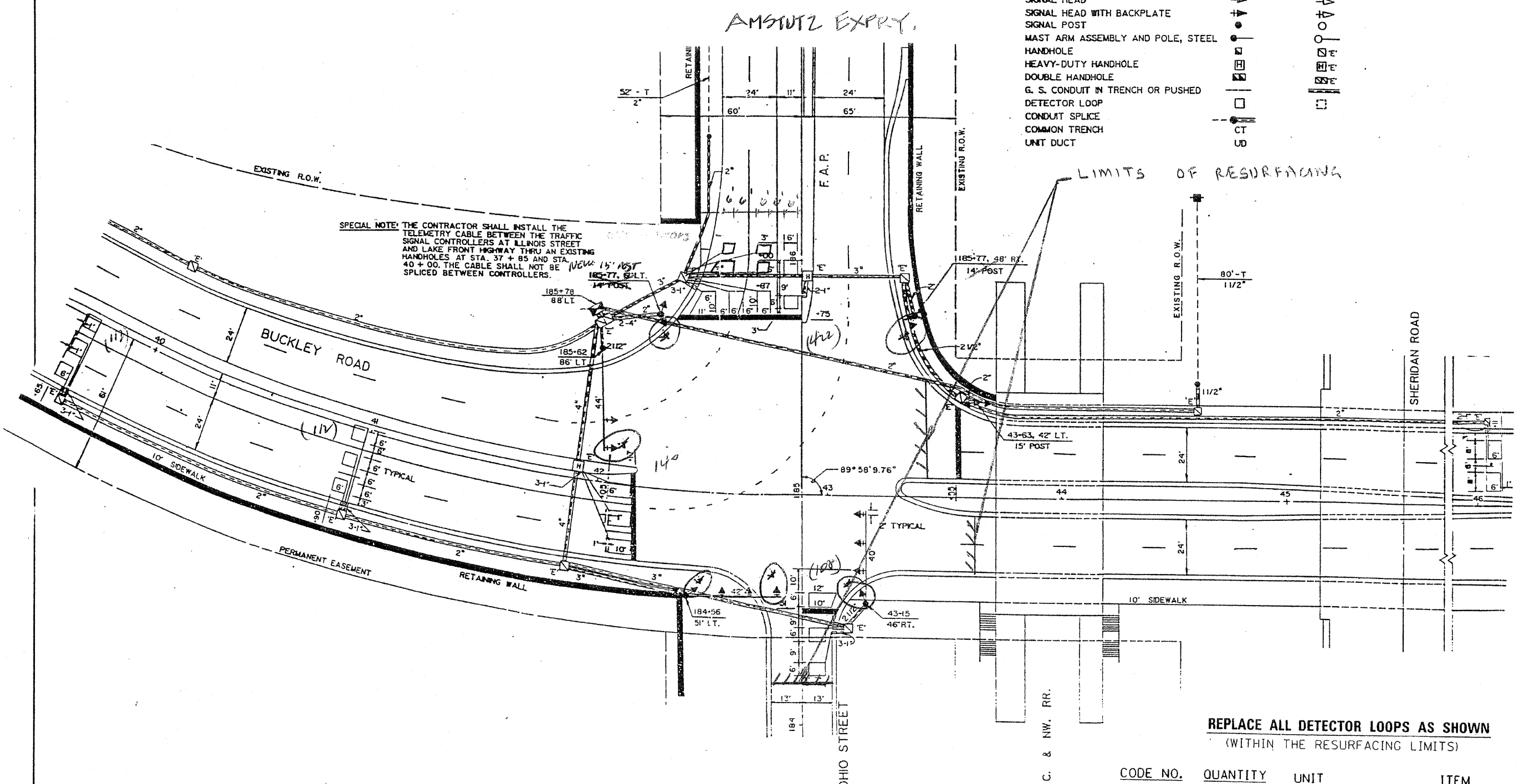
The "Pay Items" below are paid separately as per the attached "Specification" for MAGNETIC DETECTOR REMOVAL AND DETECTOR LOOP INSTALLATION.

Code No.	Pay Item	Unit	Quantity
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	
88500100	INDUCTIVE LOOP DETECTOR	EACH	
88600100	DETECTOR LOOP, TYPE 1	FOOT	

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

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
SERVICE INSTALLATION	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
SIGNAL HEAD WITH BACKPLATE	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
MAST ARM ASSEMBLY AND POLE, STEEL	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
HEAVY-DUTY HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
G. S. CONDUIT IN TRENCH OR PUSHED	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
CONDUIT SPLICE	[Symbol]	[Symbol]
COMMON TRENCH	[Symbol]	[Symbol]
UNT DUCT	[Symbol]	[Symbol]



SPECIAL NOTE: THE CONTRACTOR SHALL INSTALL THE TELEMETRY CABLE BETWEEN THE TRAFFIC SIGNAL CONTROLLERS AT ILLINOIS STREET AND LAKE FRONT HIGHWAY THRU AN EXISTING HANDHOLES AT STA. 37 + 85 AND STA. 40 + 00. THE CABLE SHALL NOT BE SPLICED BETWEEN CONTROLLERS.

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

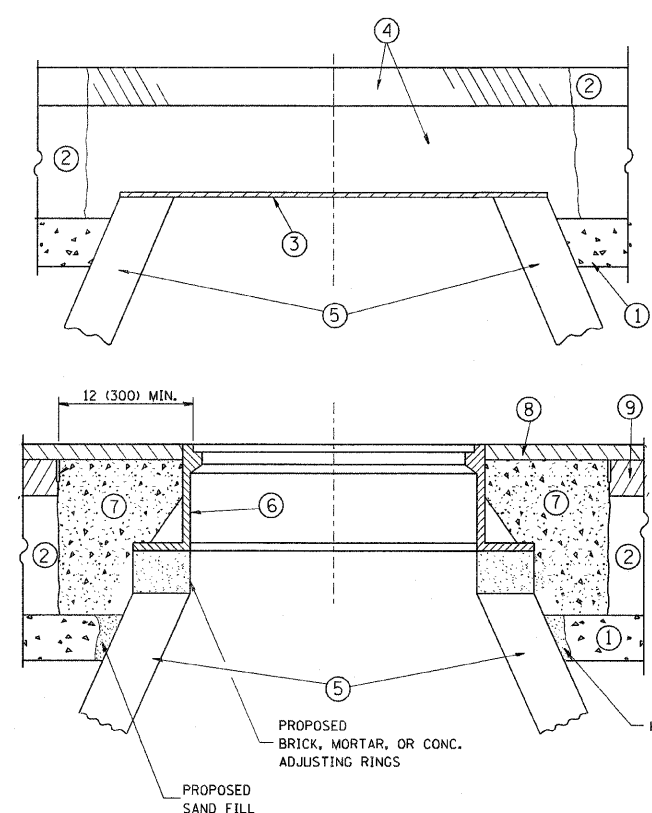
CODE NO.	QUANTITY	UNIT	ITEM
86600600	894	FOOT	DETECTOR LOOP REPLACEMENT

FILE NAME: \\projects\traffic\1878027\us12.20.45.dgn	USER NAME: kenthophaybc	DESIGNED: -	REVISED: -
PLOT SCALE: 1/8" = 1' IN.	CHECKED: -	DRAWN: -	REVISED: -
PLOT DATE: 2/29/2008	DATE: -		REVISED: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT
ILL. ROUTE 137 @ AMSTUTZ EXPWY.

F.A. RTE. 352	SECTION 56 RS-8	COUNTY LAKE	TOTAL SHEETS 39	SHEET NO. 21
SCALE: SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO.		



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

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"
NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

NOTES:

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

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

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

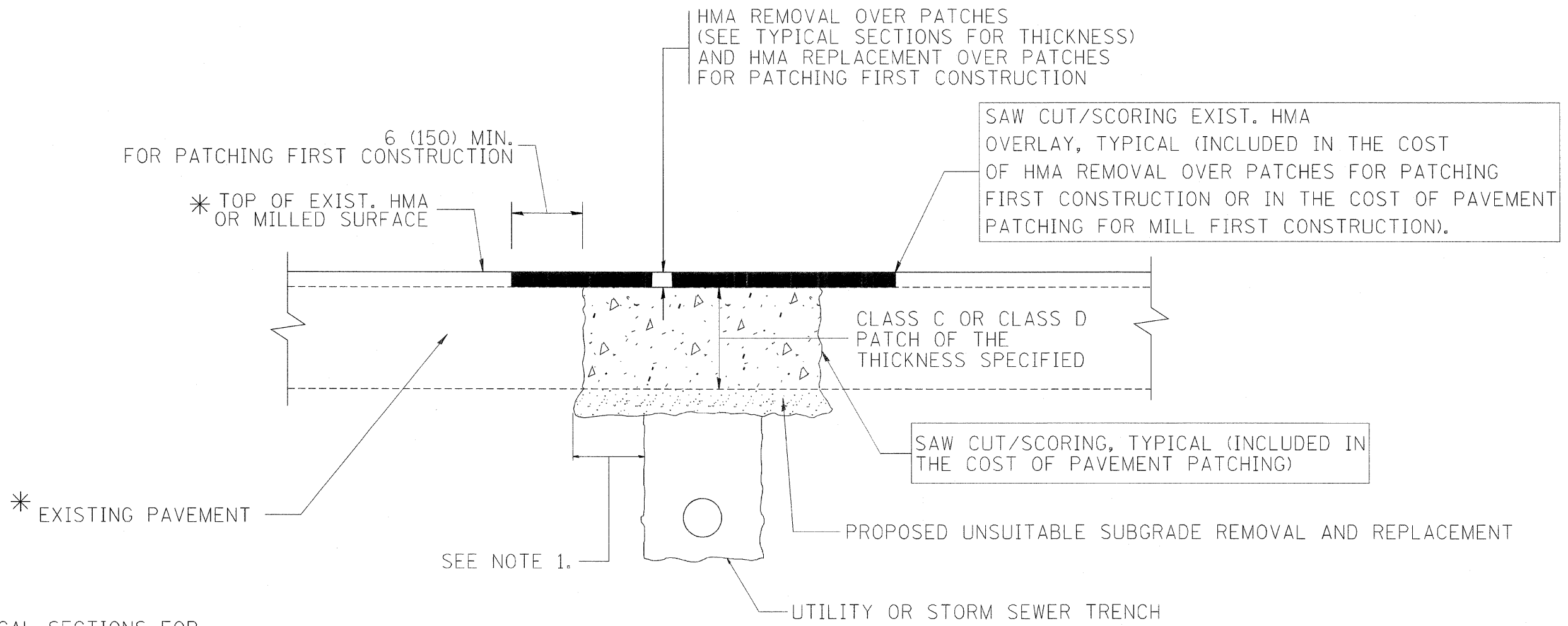
THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = M:\distatd\22x34\bd08.dgn	USER NAME = gaglienobt	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.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000 ' / IN.	DRAWN -	REVISED - A. ABBAS 03-21-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	352	56 RS-8	LAKE	39	22
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - R. WIEDEMAN 05-14-04					BD600-03 (BD-8)				
		DATE - 10-25-94	REVISED - R. BORO 01-01-07					CONTRACT NO. 60E23				
							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)

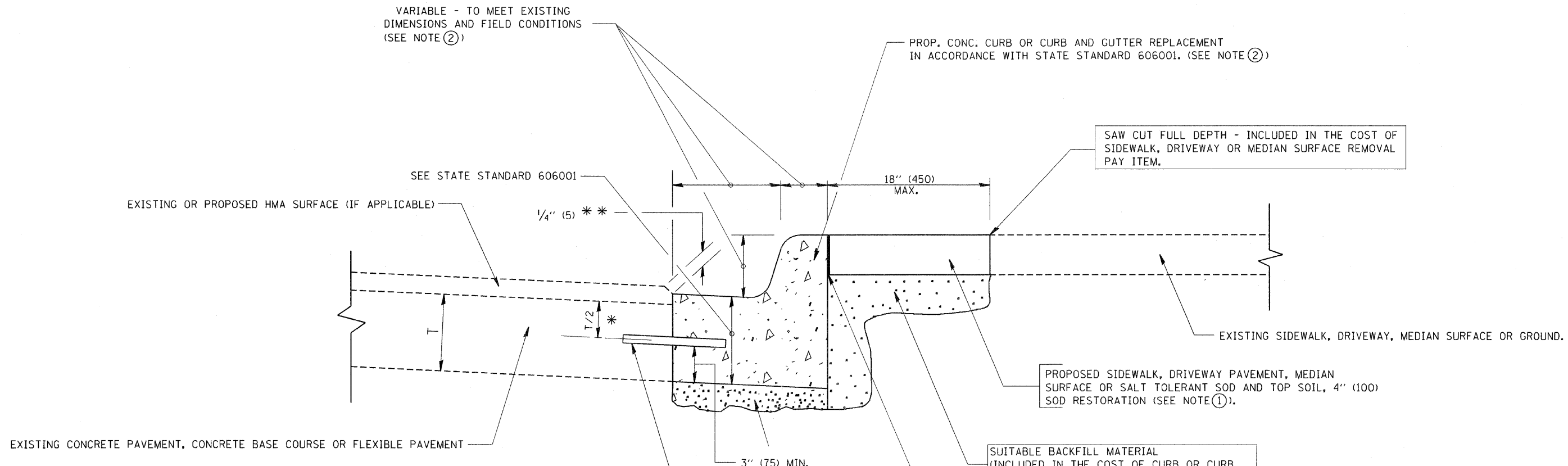
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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.

FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	F.A. RTE. 352	SECTION 56 RS-6	COUNTY	TOTAL SHEETS 39	SHEET NO. 23	
PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - R. BORO 01-01-07	REVISED - R. BORO 09-04-07			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08							CONTRACT NO. 60E23		



- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
 - * * IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.
- NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
- SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- 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 CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
 - 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 440 AND 606 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.

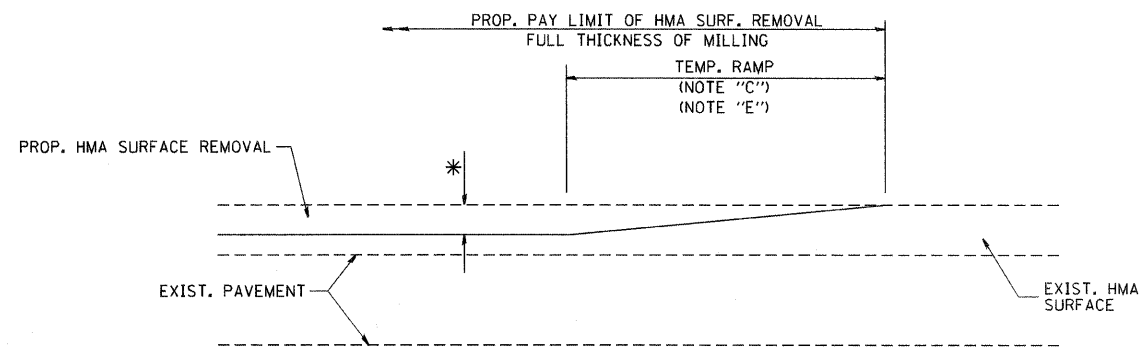
- SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)
- PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)
- UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.
- REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

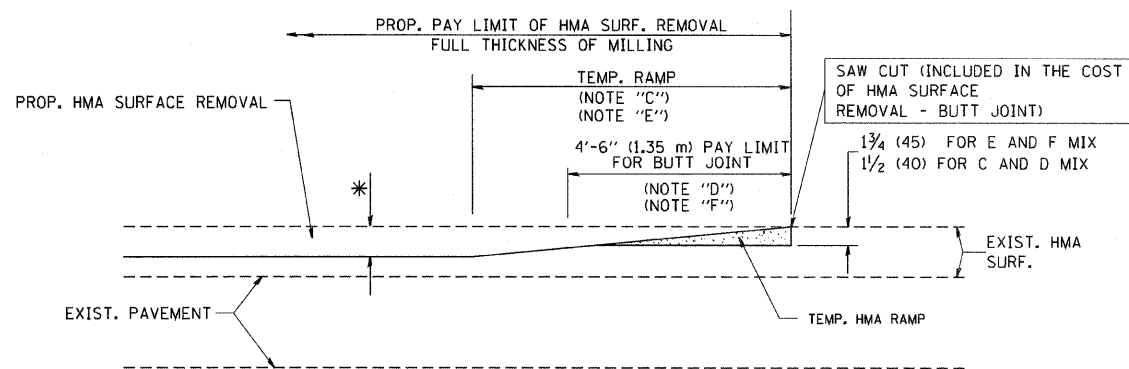
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\dststd\22x34\bd24.dgn	USER NAME = gaglianobt	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN -	REVISED - A. ABBAS 03-21-97			352	56 RS-8	LAKE	39	24	
		CHECKED -	REVISED - M. GOMEZ 01-22-01			BD600-06 (BD-24)		CONTRACT NO. 60E23			
		DATE - 03-11-94	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					



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

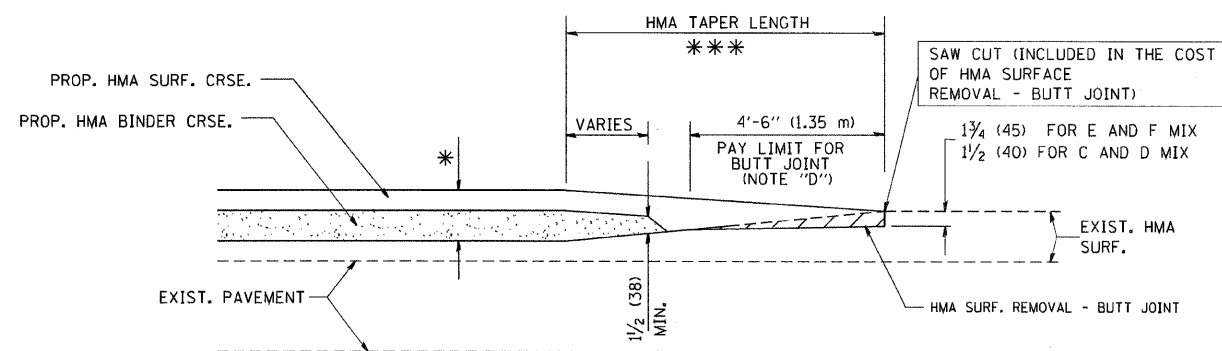
OPTION 1



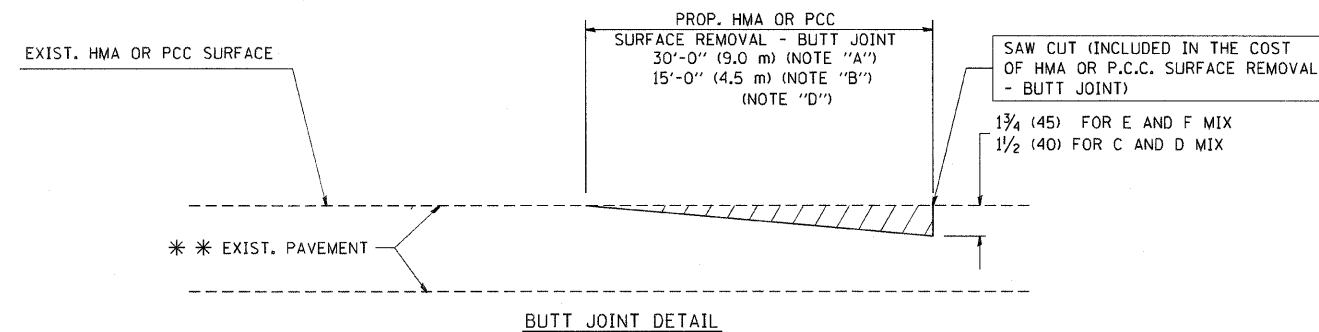
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

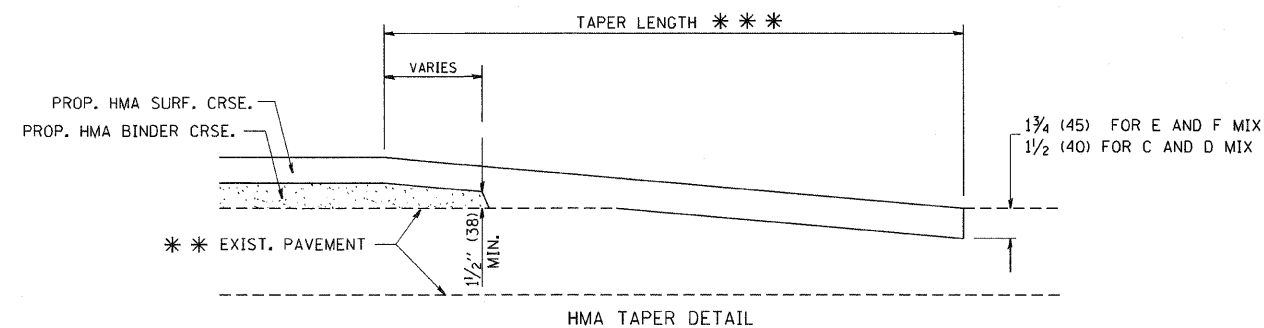
TYPICAL TEMPORARY RAMP



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.

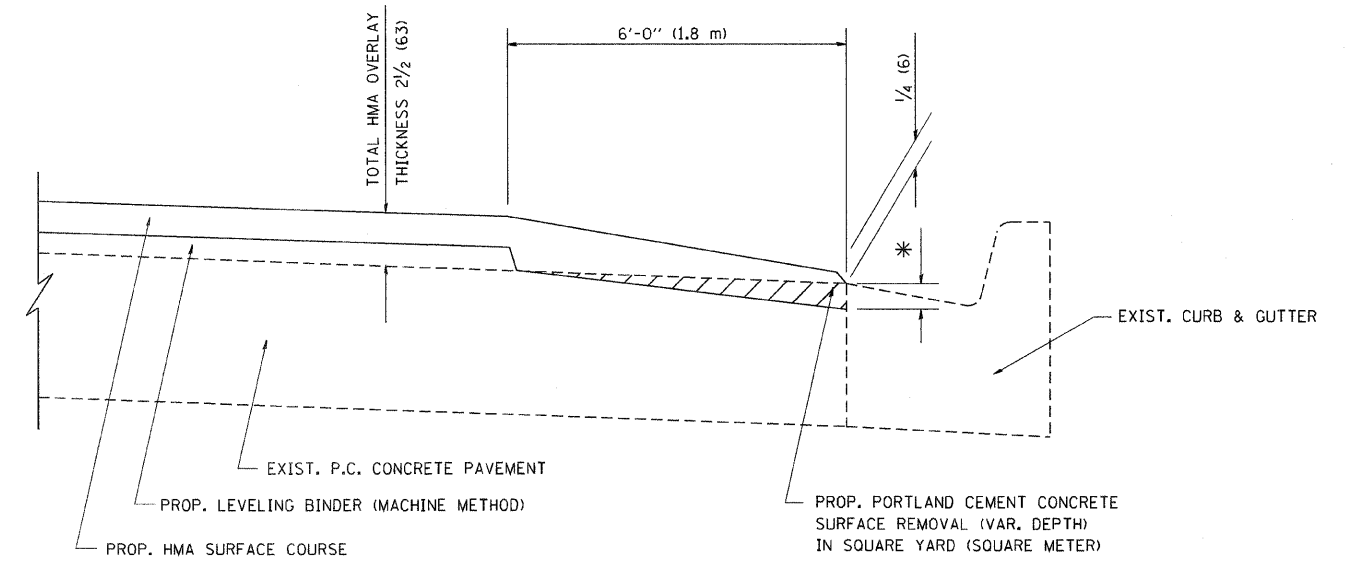
FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = gagl@enob	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000 "/>		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

F.A.P. - RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	56 RS-8	LAKE	39	25
BD400-05 BD32			CONTRACT NO. 60E23	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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



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

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

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

FILE NAME = W:\diststd\22x34\bd33.dgn	USER NAME = gajienobt	DESIGNED - R. SHAH	REVISED - R. SHAH 10-25-94
		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

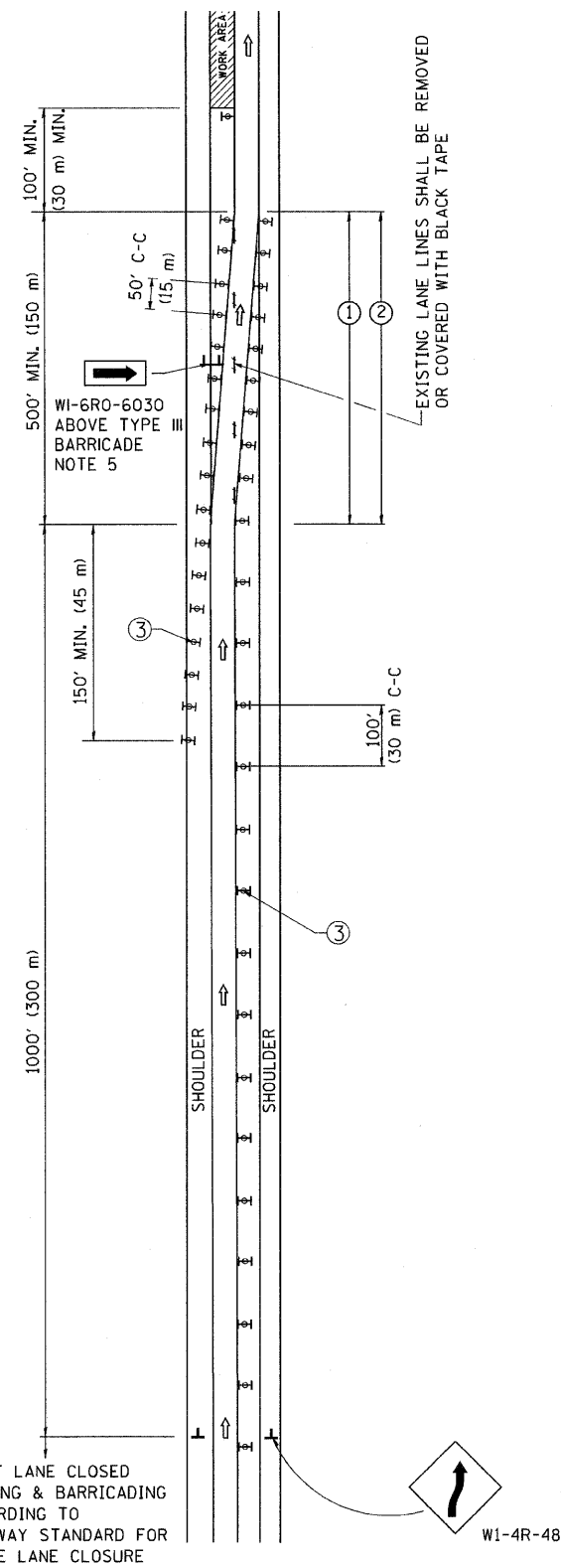
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

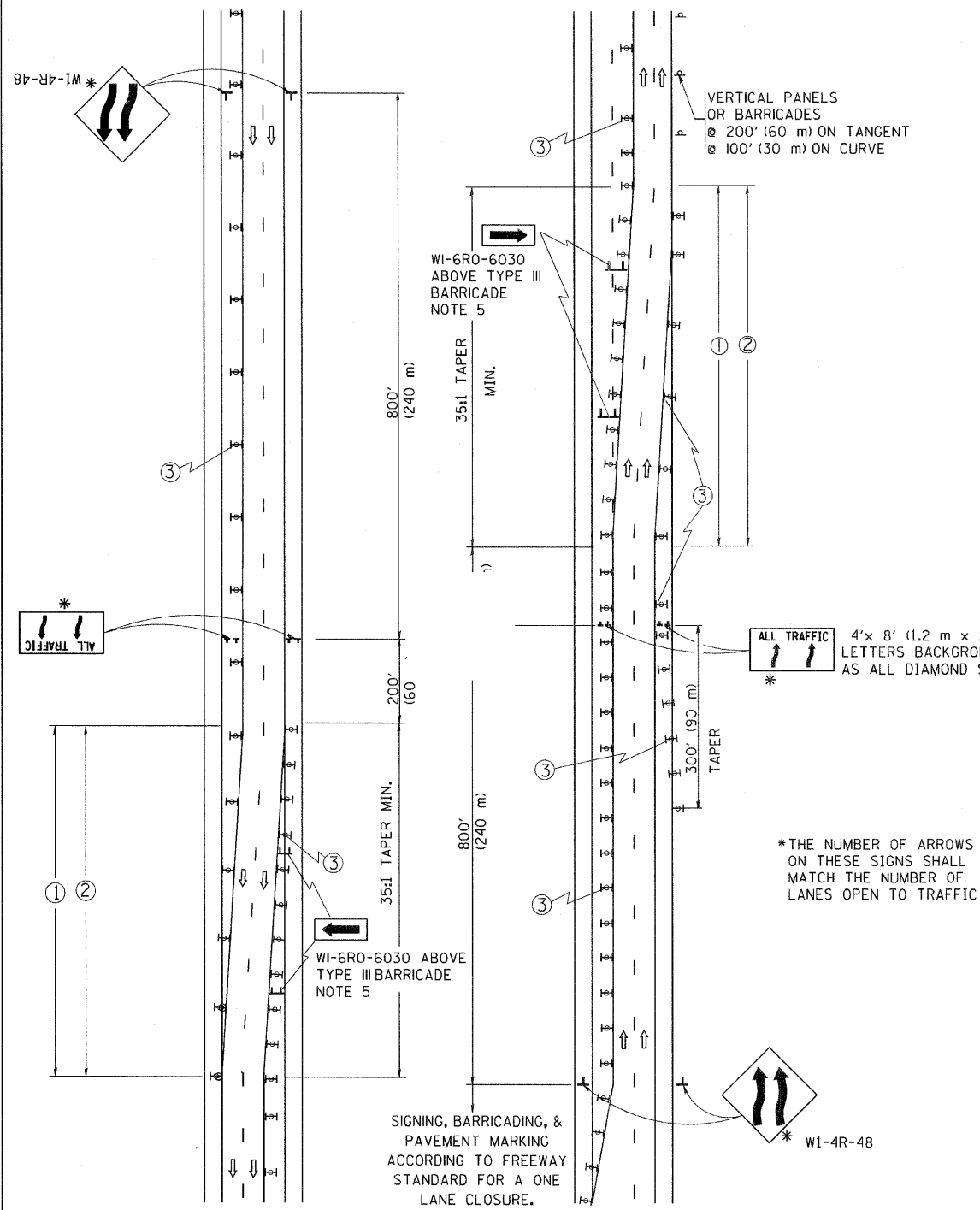
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

P.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	56 RS-8	LAKE	39	26
BD400-06 (BD33)		CONTRACT NO. 60E23		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES

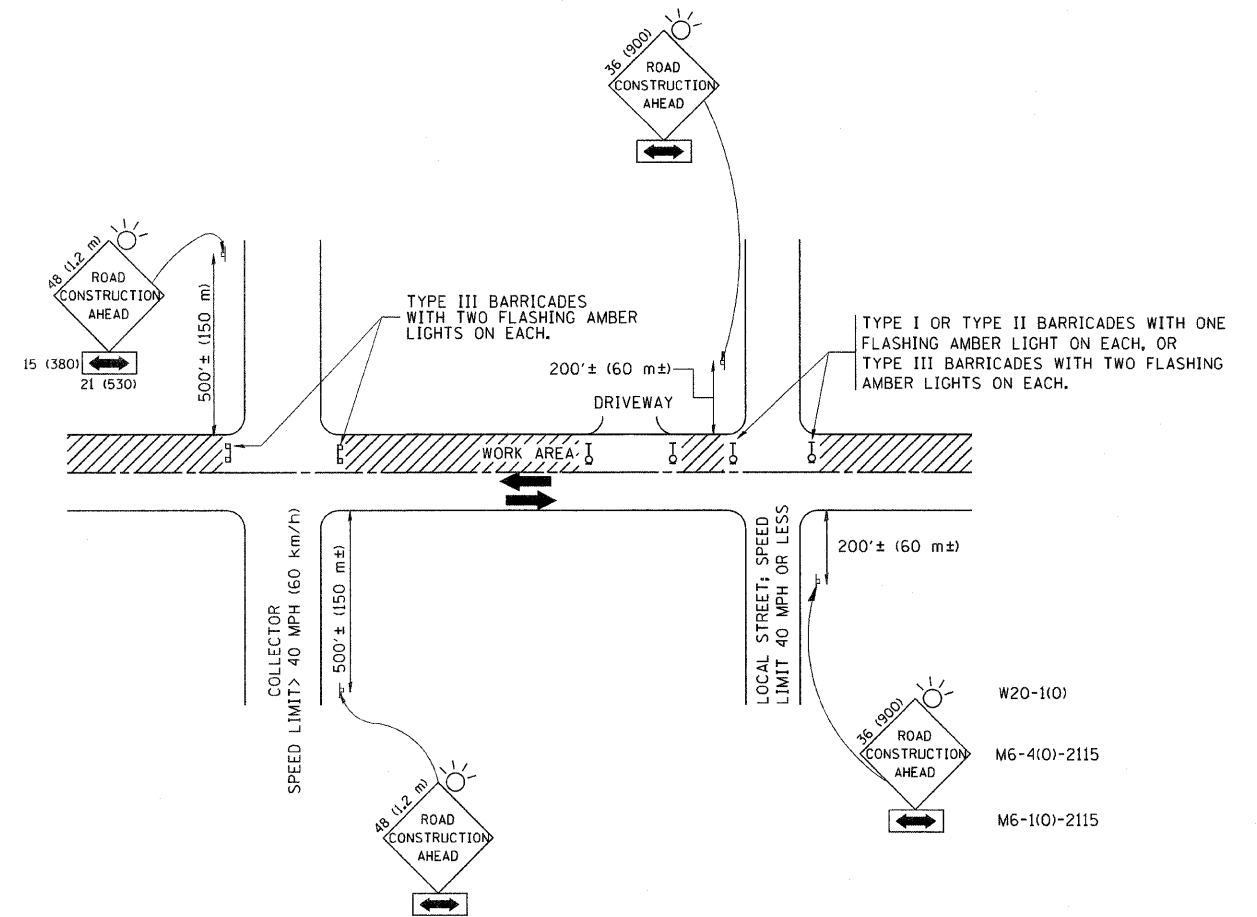
- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED OR COVERED WITH BLACK TAPE. PAVEMENT MARKING REMOVAL OR BLACK TAPE SHALL NOT BE REQUIRED FOR LANE CLOSURES UNDER 24 HOURS IN DURATION.
- CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVE LANE LINES SHALL BE 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE.
- IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONO-DIRECTIONAL STEADY BURNING LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = W:\dststd\22x34\to09.dgn	USER NAME = gegl1n0bt	DESIGNED - DWS	REVISED - DWS 11-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE			P.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - JAF 01-03		352	56 RS-8	LAKE	39	27			
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - JAF 02-06		TC-09			CONTRACT NO. 60F23				
		DATE - 02-87	REVISED - SPB 01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



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

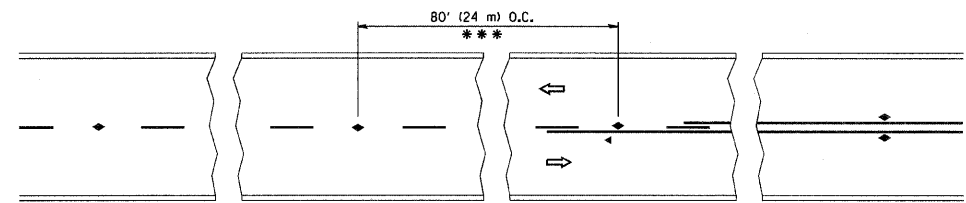
NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

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

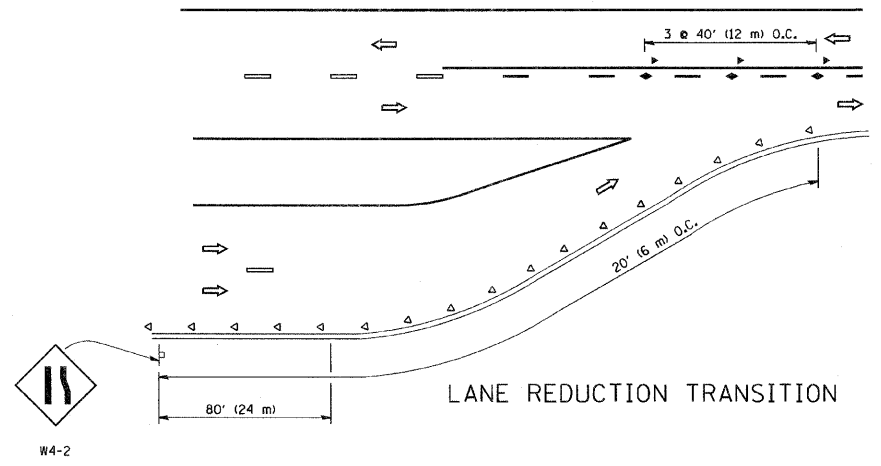
All dimensions are in millimeters (inches) unless otherwise shown.

FILE NAME = W:\diststd\22x34\trc10.dgn	USER NAME = gaglianobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,000' / IN.	DRAWN -	REVISED - A. HOUSEH 03-06-96		352	56 RS-8	LAKE	39	28			
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - A. HOUSEH 10-15-96		TC-10			CONTRACT NO. 60E23				
	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

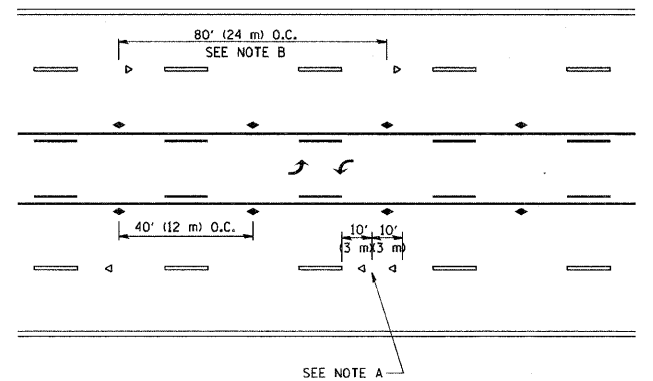


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

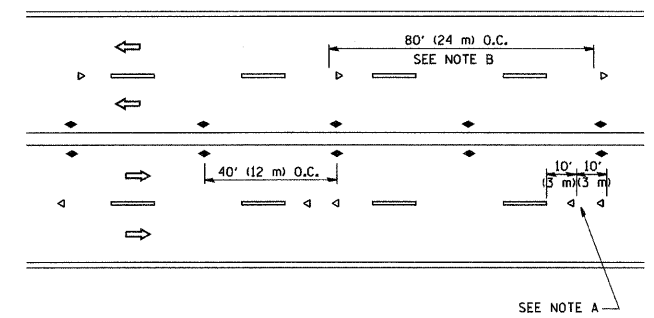
TWO-LANE/TWO-WAY



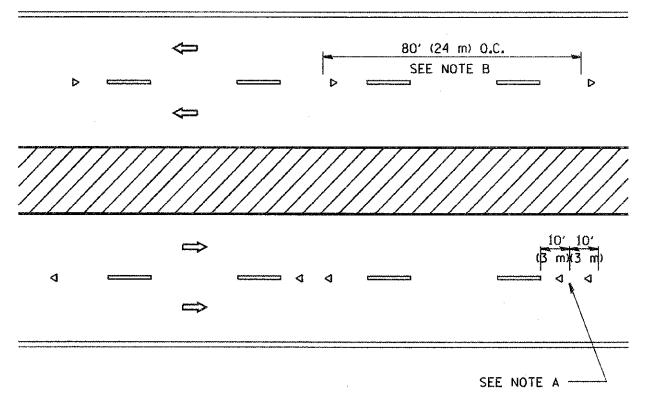
LANE REDUCTION TRANSITION



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

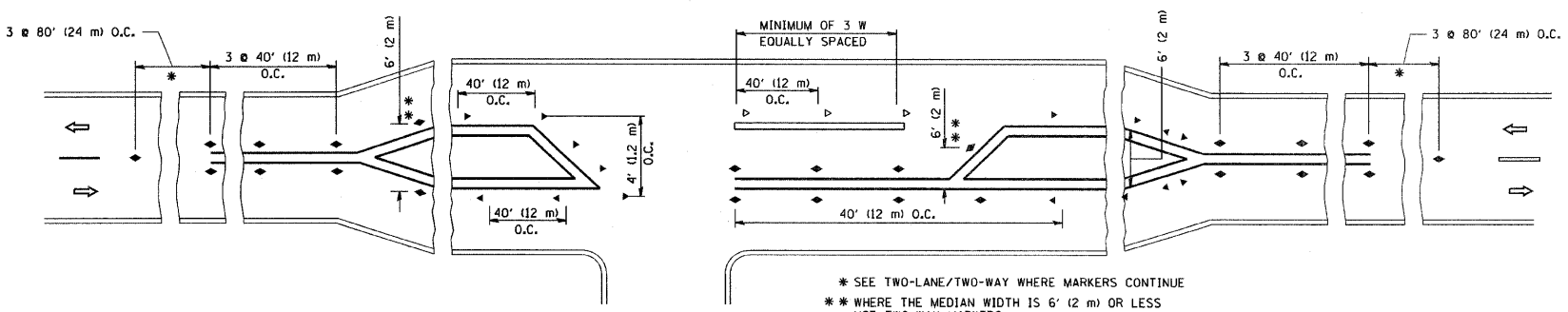
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.



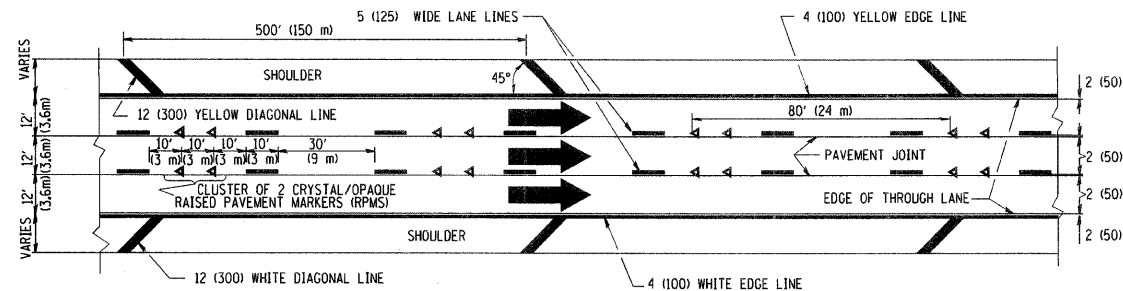
LEFT TURN

* 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:\diststd\22x34\toll.dgn	USER NAME = gaglienobt	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,000' / IN.	DRAWN -	REVISED - T. RAMMACHER 03-12-99		352	56 RS-8	LAKE	39	29			
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 01-06-00		RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			TC-11		CONTRACT NO. 60E23		
		DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			

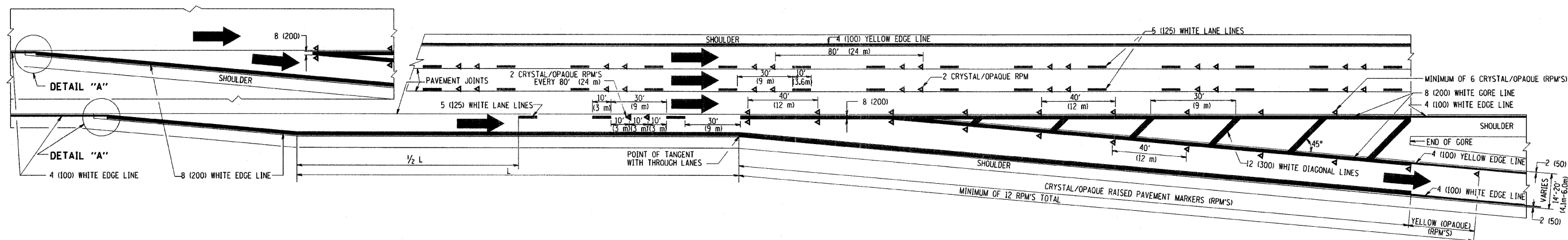
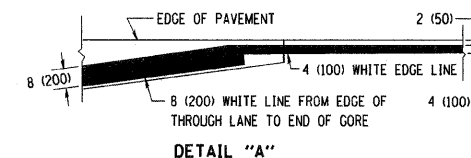
THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH
THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH



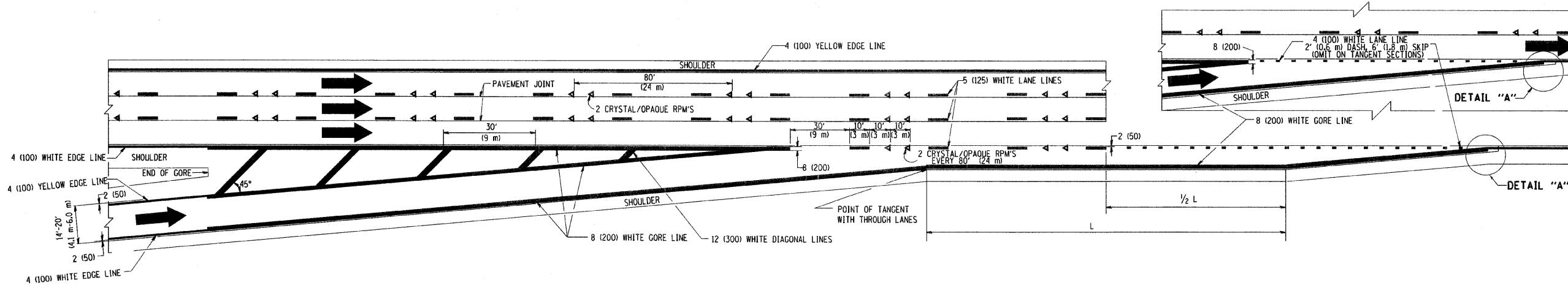
TYPICAL EDGE LINES & LANE LINES

NOTES:

1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE SHALL BE USED FOR ALL LANE LINES ON BITUMINOUS PAVEMENT
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC

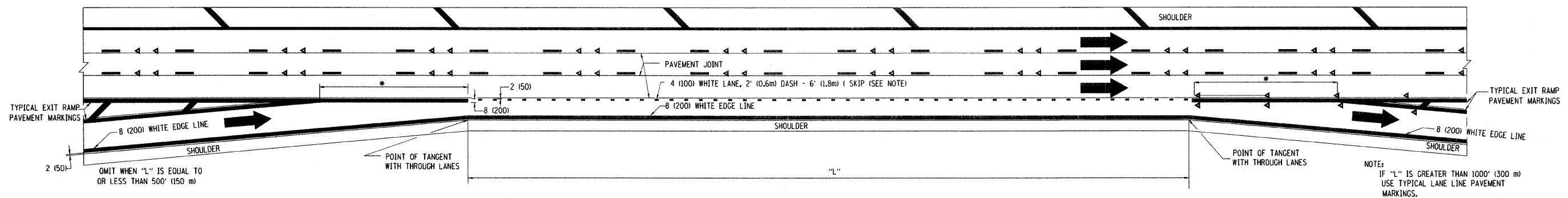


TYPICAL EXIT RAMP PAVEMENT MARKINGS

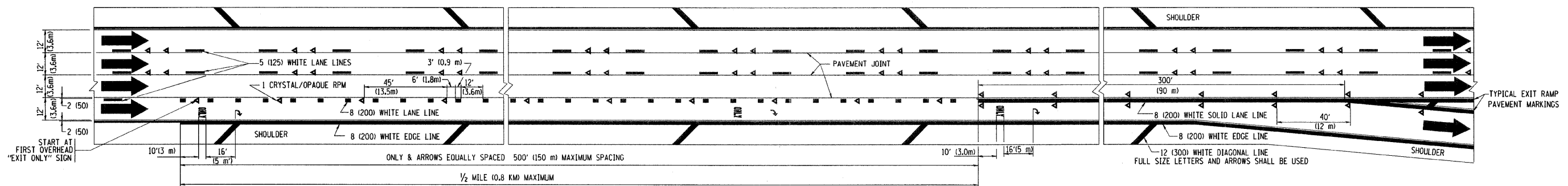


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS

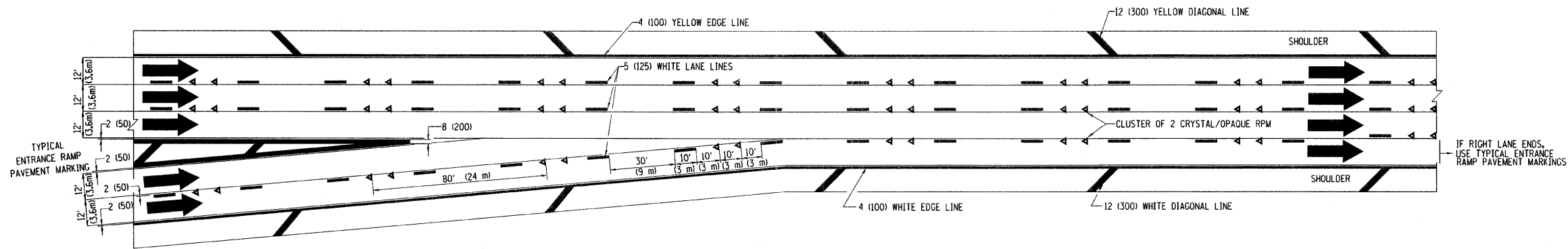
FILE NAME = W:\distatd\22x34\to12.dgn	USER NAME = gaglianobt	DESIGNED - D.W.S.	REVISED - A.H. 03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS			F.A.P. RTE. 352	SECTION 56 RS-8	COUNTY LAKE	TOTAL SHEETS 39	SHEET NO. 30
PLOT SCALE = 50,000' / IN.	PLOT DATE = 1/4/2008	DRAWN -	REVISED - D.W.S. 07-96		SCALE: NONE	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	TC-12		CONTRACT NO. 60E23	
		CHECKED -	REVISED - J.A.F. 02-06		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							
		DATE - 01-90	REVISED - S.P.B. 01-07									



TYPICAL ENTRANCE/EXIT RAMP COMBINATION PAVEMENT MARKINGS

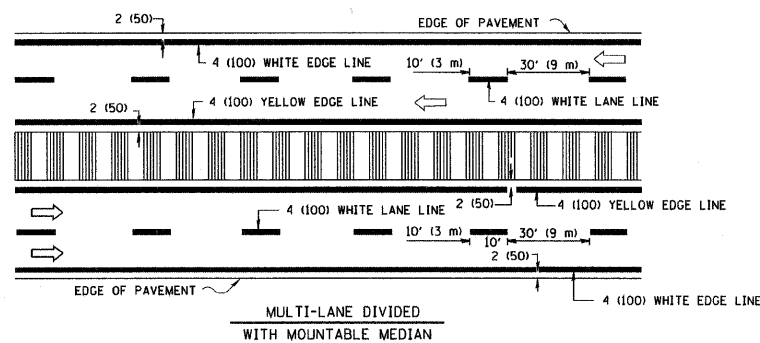
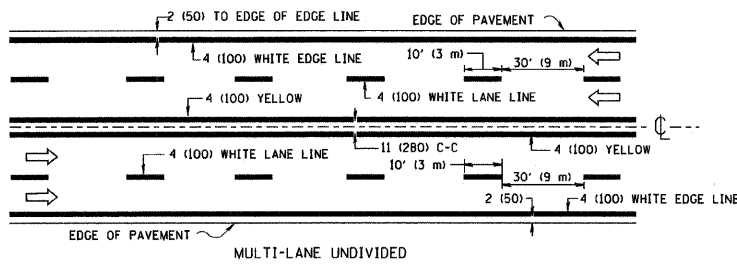
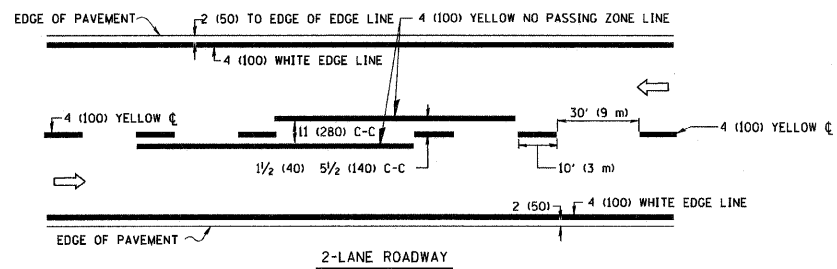


TYPICAL EXIT ONLY LANE PAVEMENT MARKINGS



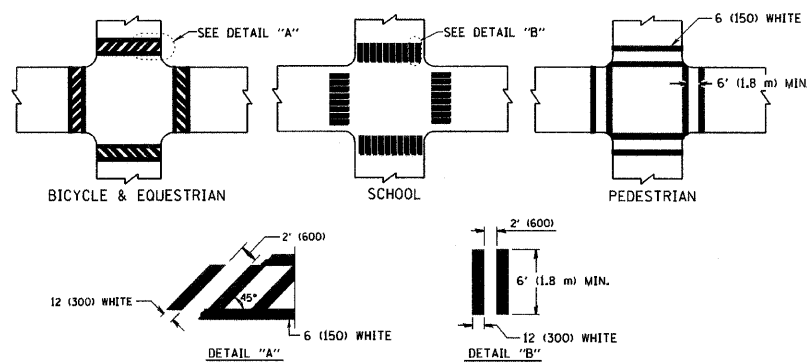
TYPICAL TWO LANE ENTRANCE RAMP PAVEMENT MARKINGS

FILE NAME = W:\distatd\22x34\1\to12.dgn	USER NAME = geglrenobt	DESIGNED - D.W.S.	REVISED - A.H. 03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS			F A P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED - D.W.S. 07-96		SCALE: NONE	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	352	56 RS-8	LAKE	39	31
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - J.A.F. 02-06						TC-12				
		DATE - 01-90	REVISED - S.P.B. 01-07						CONTRACT NO. 60E23				
								FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

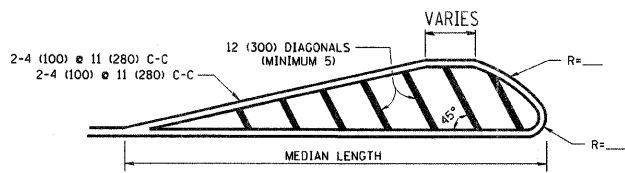
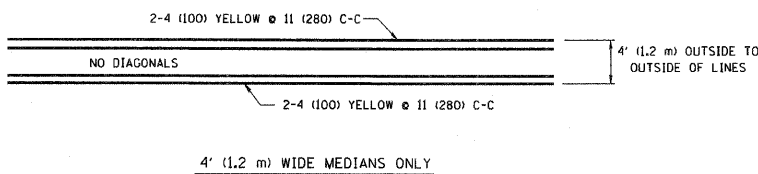


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

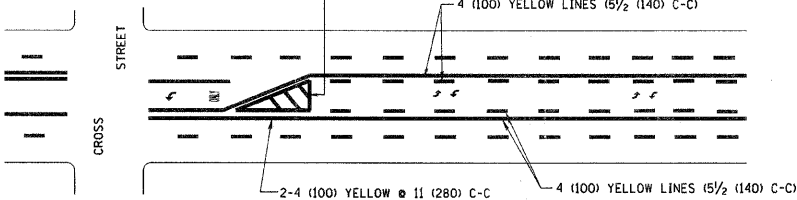


TYPICAL CROSSWALK MARKING

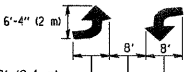


FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
 150' (45 m) C-C (OVER 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

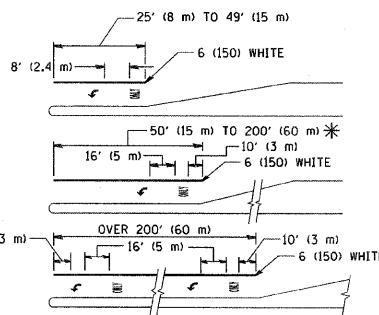


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

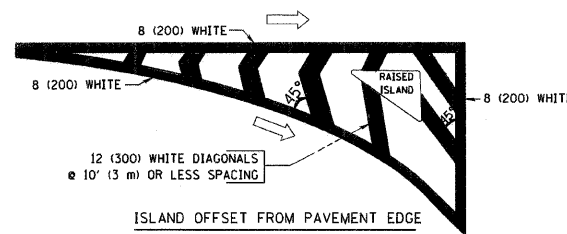
TYPICAL PAINTED MEDIAN MARKING



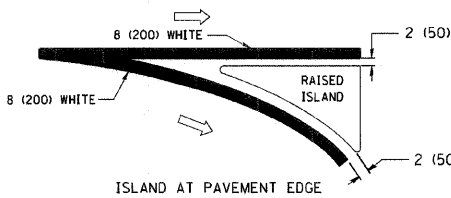
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW. EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES "RR" 15' (4.5 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

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

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

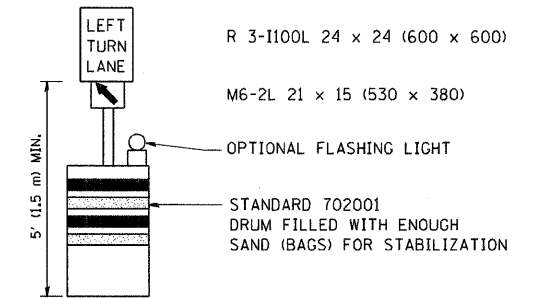
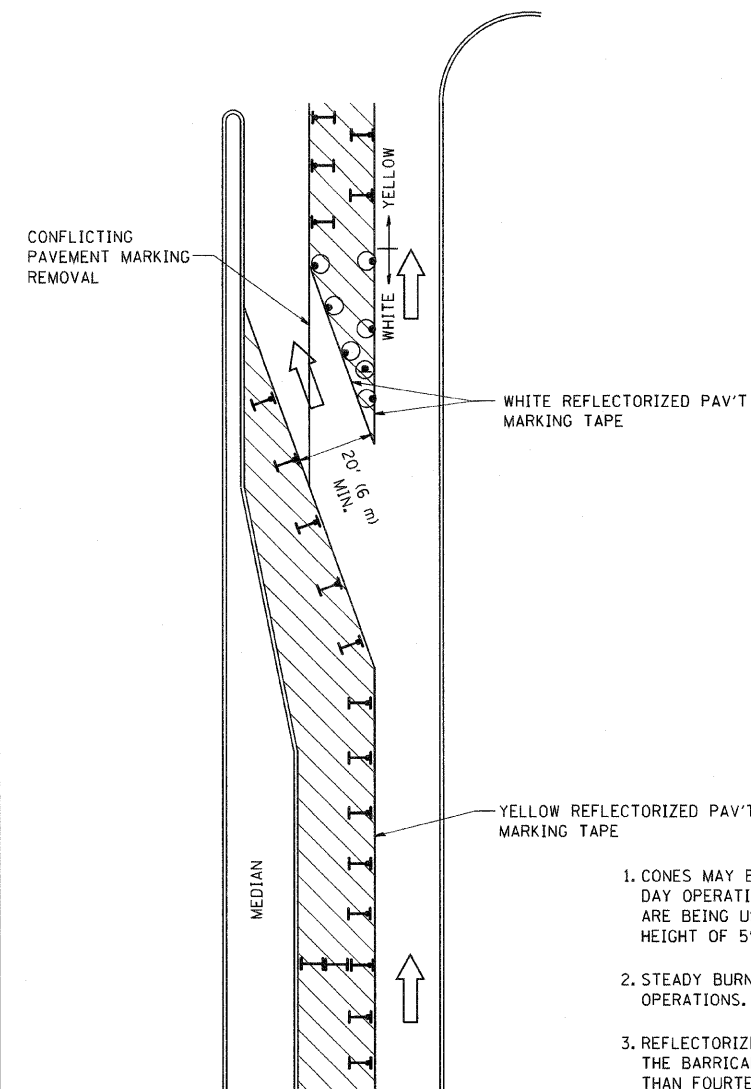
FILE NAME = W:\diststd\22x34\vc13.dgn	USER NAME = gaglienobt	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
		DRAWN -	REVISED - A. HOUSEH 10-09-96
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-17-96
	PLOT DATE = 1/4/2008	DATE - 03-19-90	REVISED - T. RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

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

F.A.P. RITE 352	SECTION 56 RS-8	COUNTY LAKE	TOTAL SHEETS 39	SHEET NO. 32
TC-13			CONTRACT NO. 60E23	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

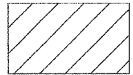
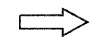






GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM 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

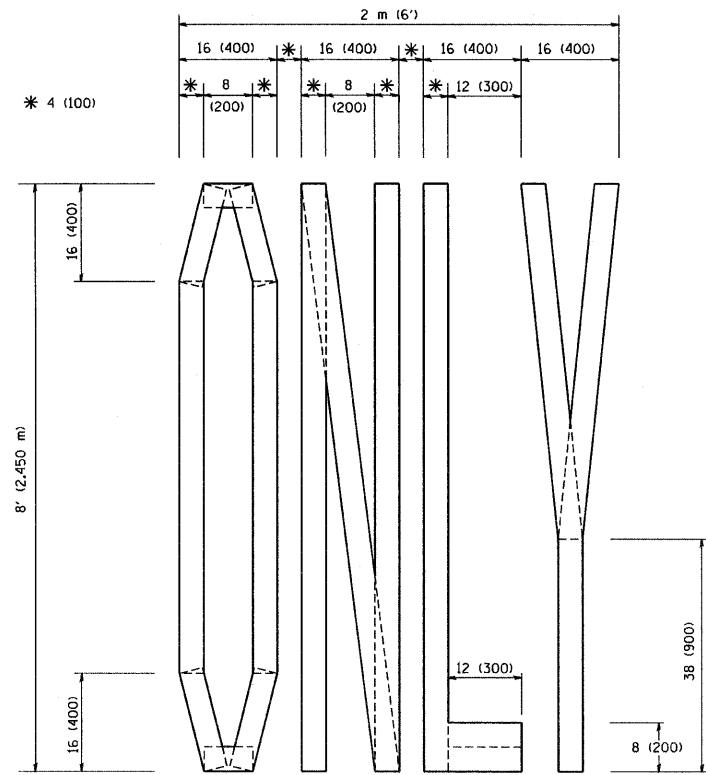
FILE NAME = W:\diststd\22x34\tc14.dgn	USER NAME = gaglienobt	DESIGNED -	REVISED -T. RAMMACHER 09-08-94
		DRAWN -	REVISED - A. HOUSEH 11-07-95
	PLOT SCALE = 50.0000 "/ IN.	CHECKED -	REVISED - A. HOUSEH 10-12-96
	PLOT DATE = 1/4/2008	DATE -	REVISED -T. RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

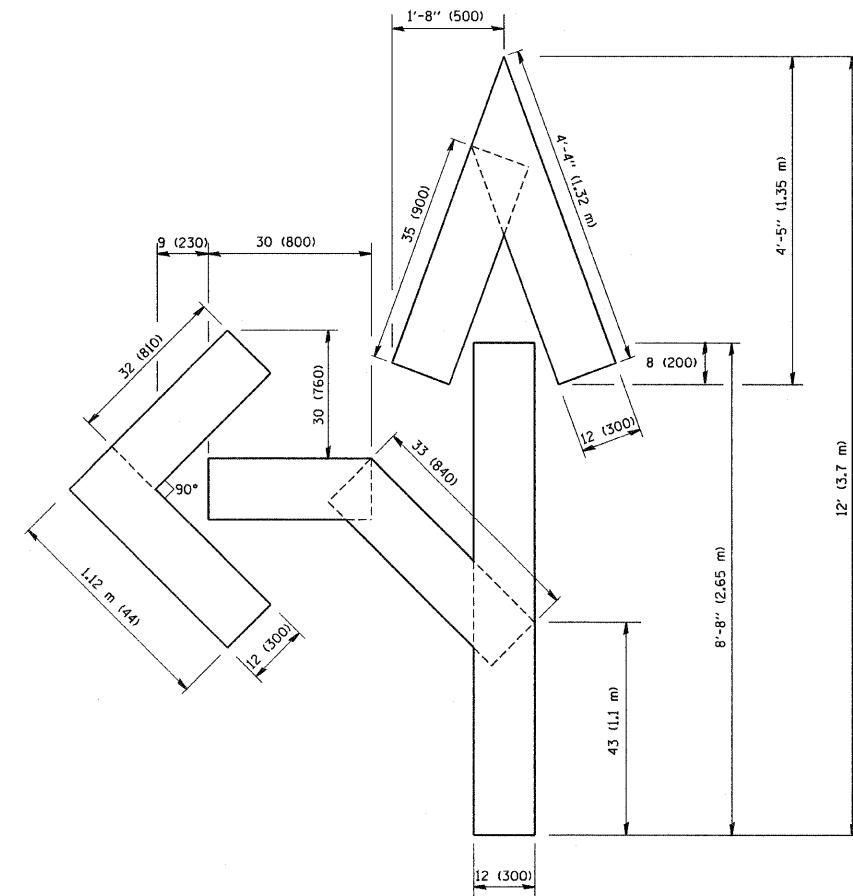
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

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

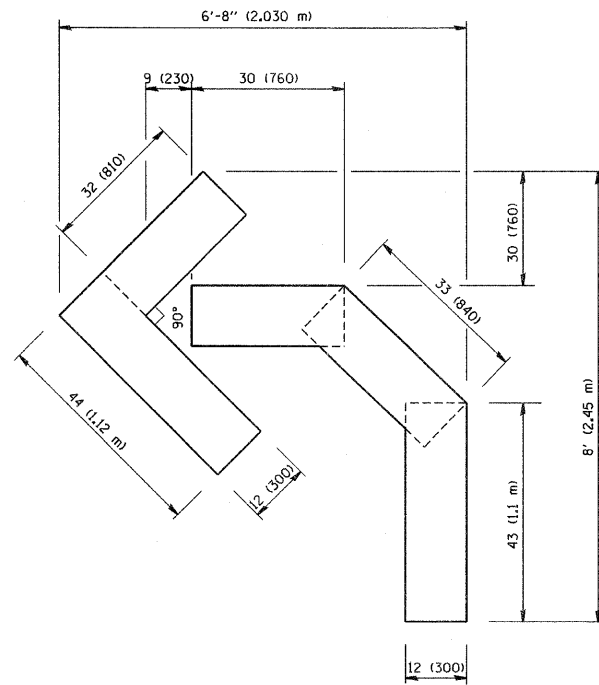
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	56 RS-8	LAKE	39	33
TC-14			CONTRACT NO. 60E23	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



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



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



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

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

FILE NAME = W:\distatd\22x34\te16.dgn	USER NAME = geglianobt	DESIGNED - DRAWN -	REVISED -T, RAMMACHER 06-05-96 REVISED -T, RAMMACHER 11-04-97
PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -T, RAMMACHER 03-02-98	REVISED -T, RAMMACHER 03-02-98
PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E, GOMEZ 08-28-00	

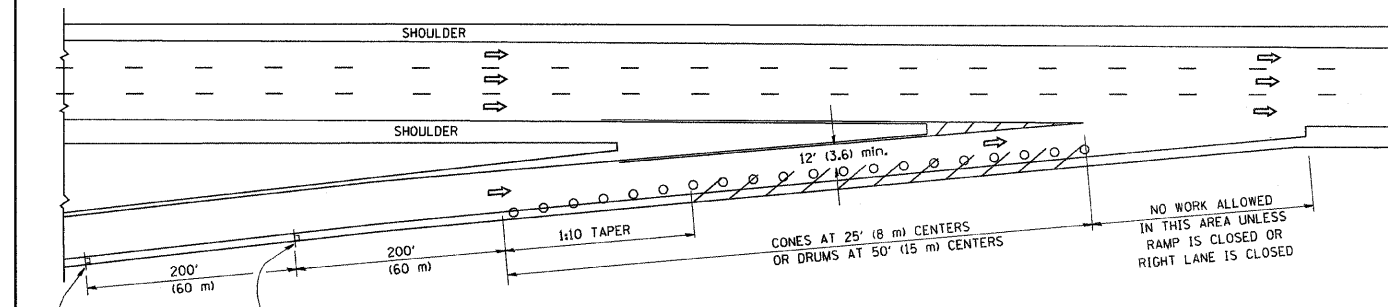
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

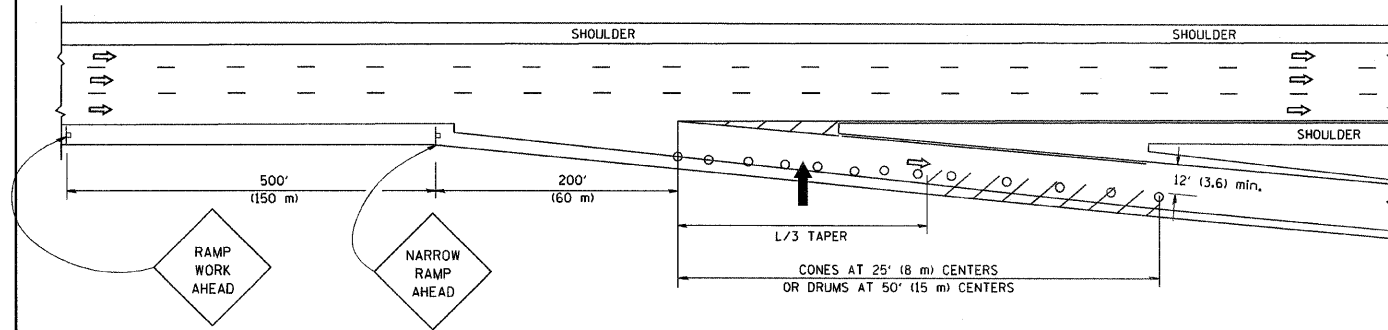
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	56 RS-8	LAKE	39	34
TC-16			CONTRACT NO. 60E23	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

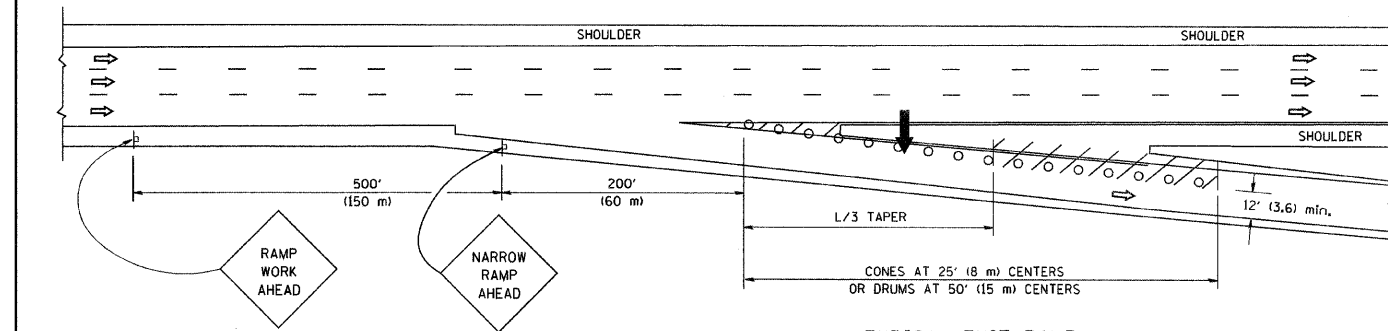
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

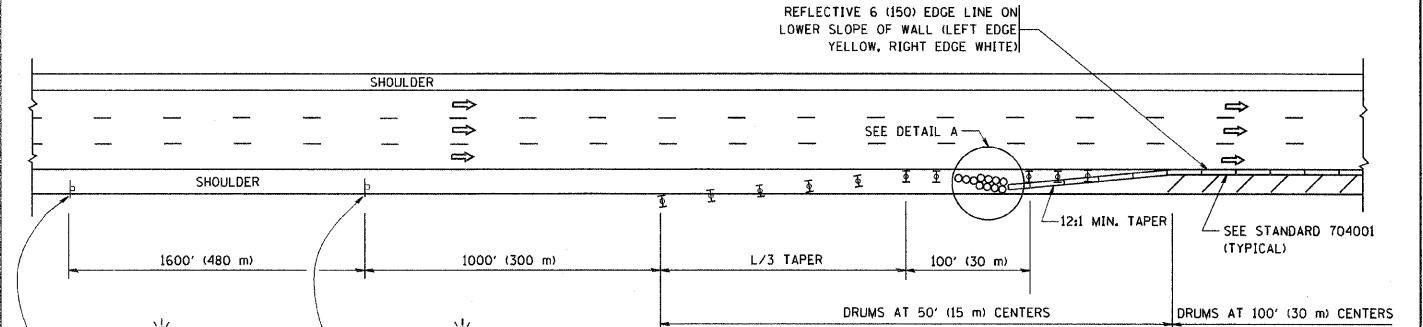
- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

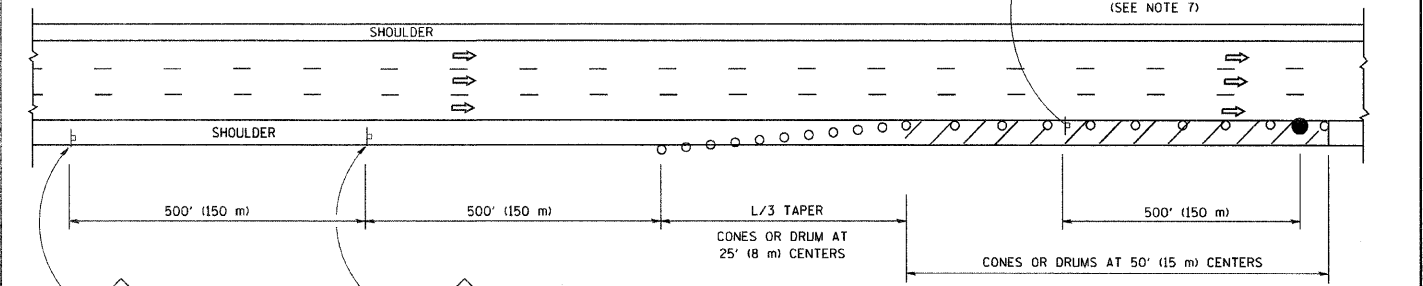
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC ENGLISH $L=0.65(W)(S)$ $L=(W)(S)$
	W = WIDTH OF OFFSET IN FEET (METERS) S = NORMAL POSTED SPEED MPH (KM/H)
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS



PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

- THIS DETAIL IS USED WHERE:
1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT FOR POSTED SPEED.

DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)

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

FILE NAME =
W:\distatd\22x34\col7.dgn

USER NAME = gaglienobt
PLOT SCALE = 50:0000 "/ IN.
PLOT DATE = 1/4/2008

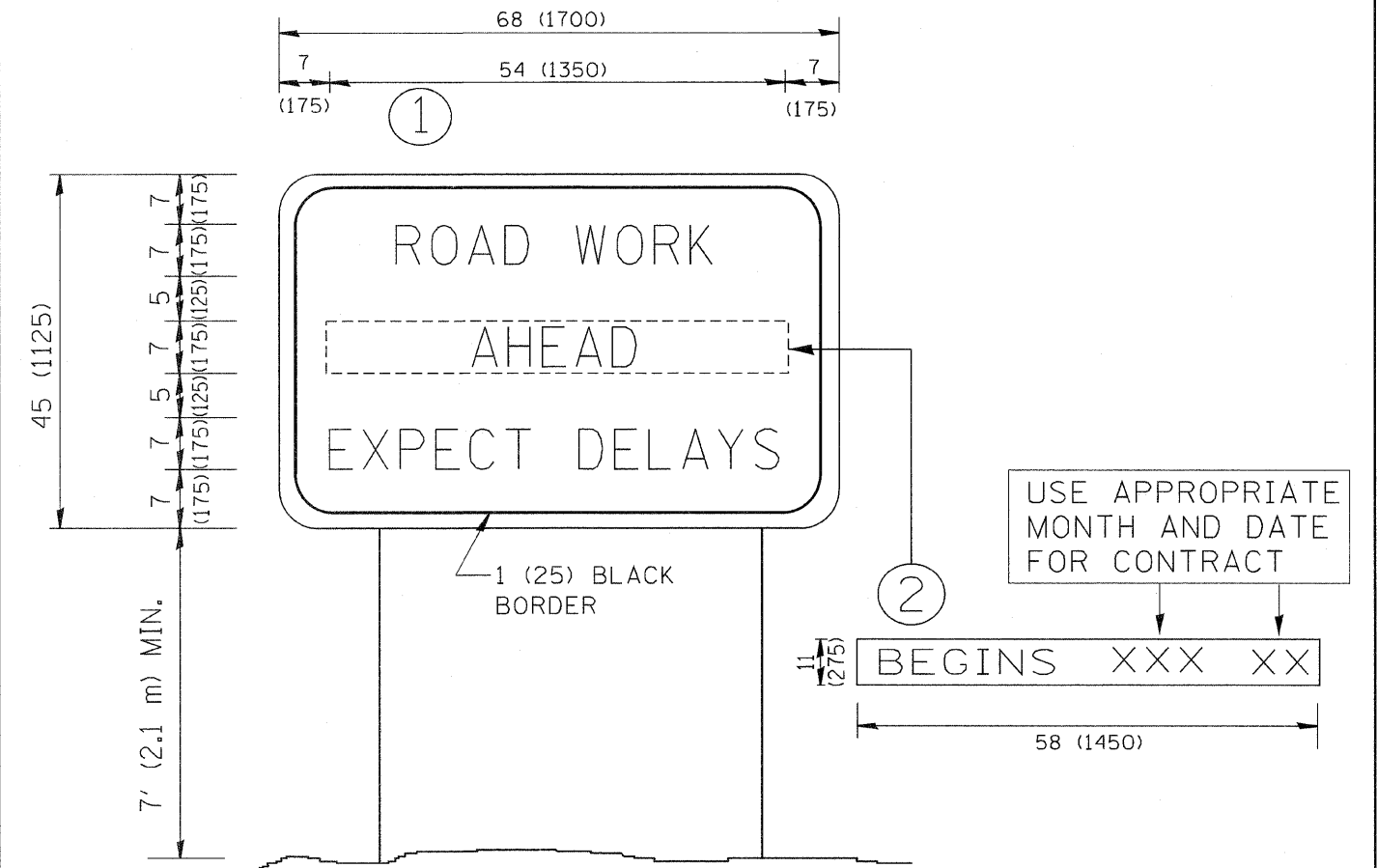
DESIGNED -
DRAWN - D.W.S.
CHECKED -
DATE - 11-96

REVISED - J.A.F. 12-02
REVISED - 04-03
REVISED - J.A.F. 12-06
REVISED - S.P.B. 01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	56 RS-8	LAKE	39	35
TC-17			CONTRACT NO. 60E23	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



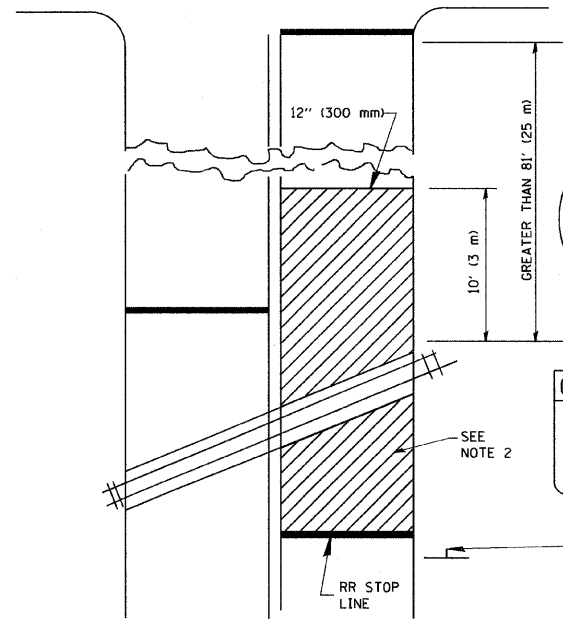
NOTES:

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.

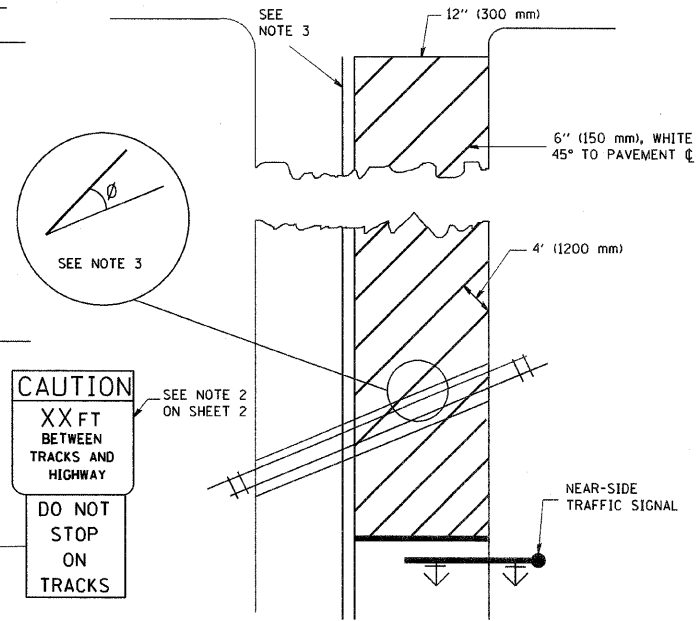
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\to22.dgn	USER NAME = geglencbt	DESIGNED -	REVISED - R. WIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50.000 ' / IN.	DRAWN -	REVISED - R. WIRS 12-11-97			352	56 RS-8	LAKE	39	36	
	PLOT DATE = 1/4/2000	CHECKED -	REVISED - T. RAMMACHER 02-02-99			TC-22		CONTRACT NO. 60E23			
		DATE -	REVISED - C. JUCIUS 01-31-07			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		
						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

WITH INTERSECTION TRAFFIC SIGNALS

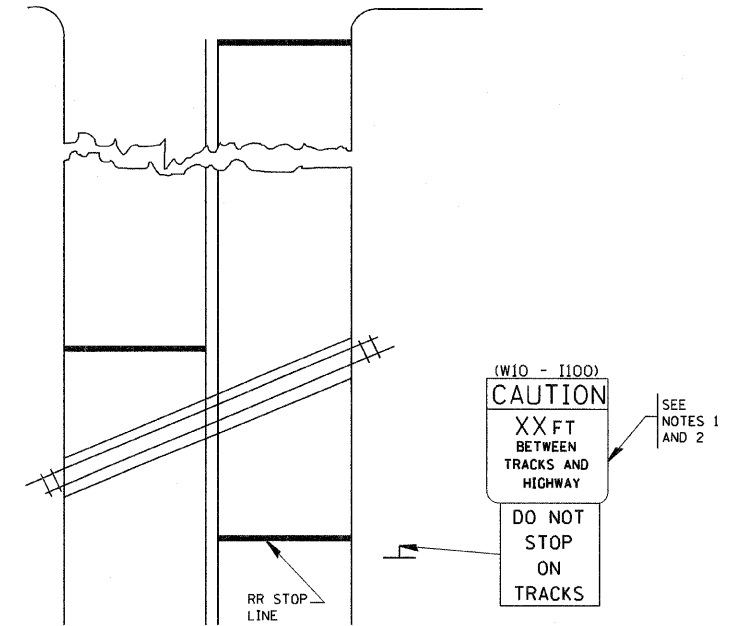


WITH NEAR-SIDE TRAFFIC SIGNALS



WITH NONSIGNALIZED INTERSECTION

81' (25 m) OR LESS TO CLOSEST RAIL



NOTES:

- PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED, THE PAVEMENT MARKINGS EXTENDS TO THE INTERSECTION.
- WHERE THE ANGLE BETWEEN THE DIAGONAL STRIPES AND THE TRACK (θ) WOULD BE LESS THAN APPROXIMATELY 20°, THE STRIPES SHOULD BE SLOPED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.

NOTE:

- DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET (1.8 m) FROM THE RAIL CLOSEST TO THE INTERSECTION TO THE STOP LINE OR CROSSWALK, WHICHEVER IS CLOSEST, ROUNDED DOWN TO THE NEAREST 5 FEET (1.5 m). WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE THE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
- THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6- FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTEND TO THE INTERSECTION.

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

FILE NAME = W:\disttd\22x34\tc23.dgn	USER NAME = gaglianobt	DESIGNED -	REVISED - 01-01-07
		DRAWN -	REVISED -
	PLOT SCALE = 50.000 "/ IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

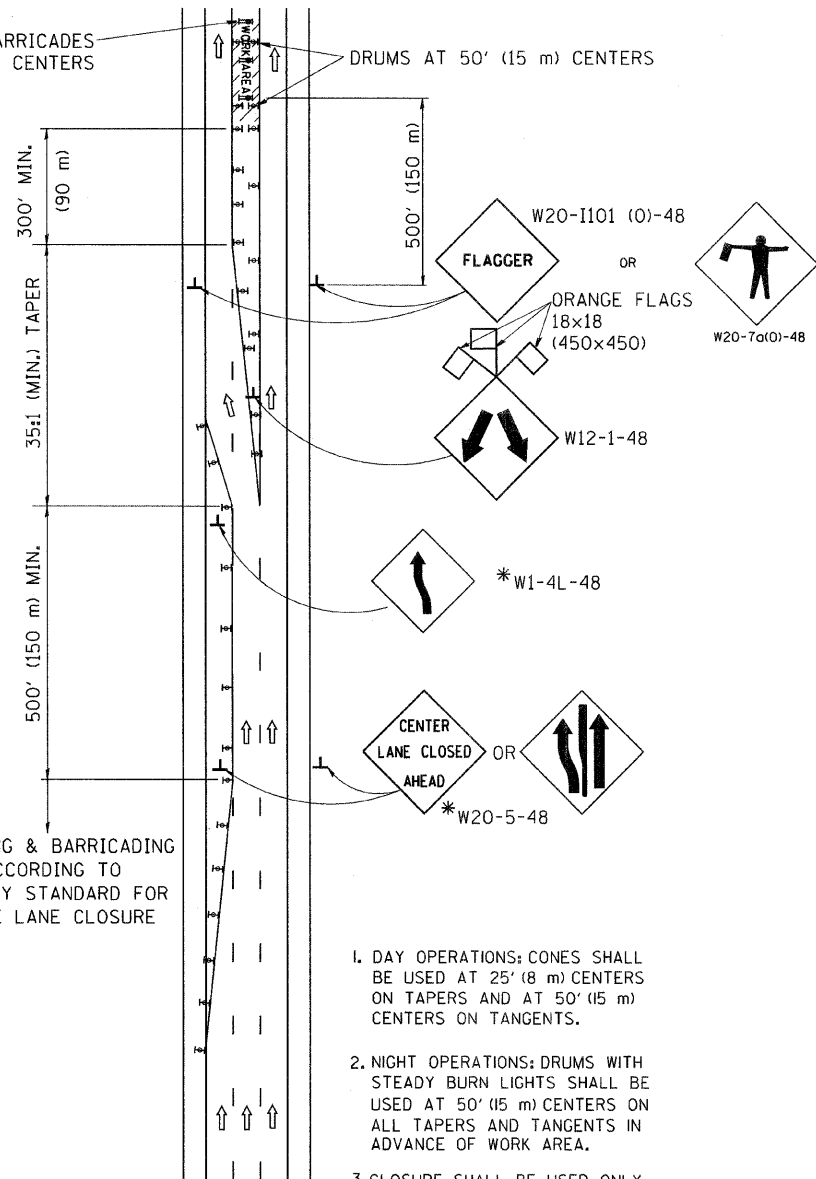
TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING
TREATMENT FOR RAILROAD CROSSINGS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	56 RS-8	LAKE	39	37
TC-23			CONTRACT NO. 60E23	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

CENTER LANE CLOSURE

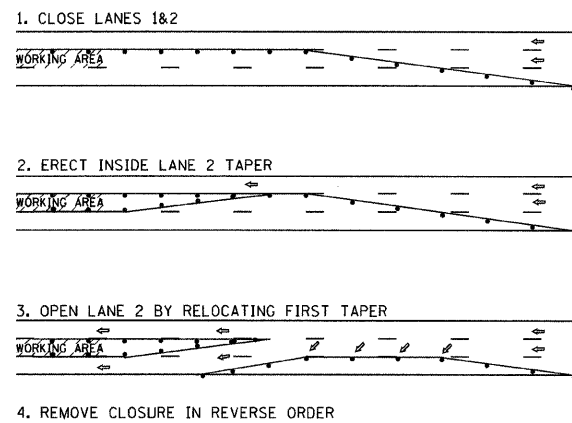
TYPE I CHECK BARRICADES AT 100' (30 m) CENTERS



SIGNING & BARRICADING ACCORDING TO FREEWAY STANDARD FOR A ONE LANE CLOSURE

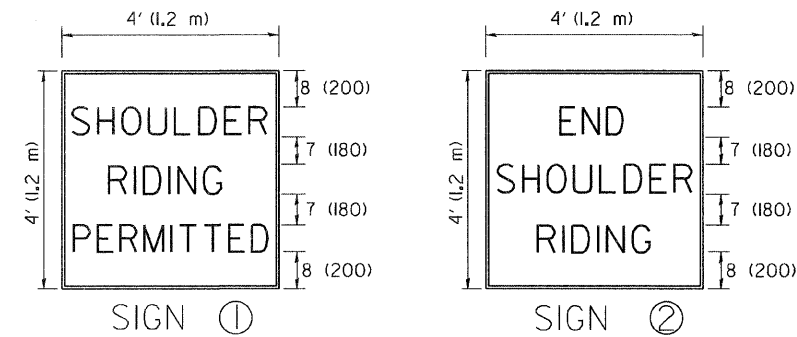
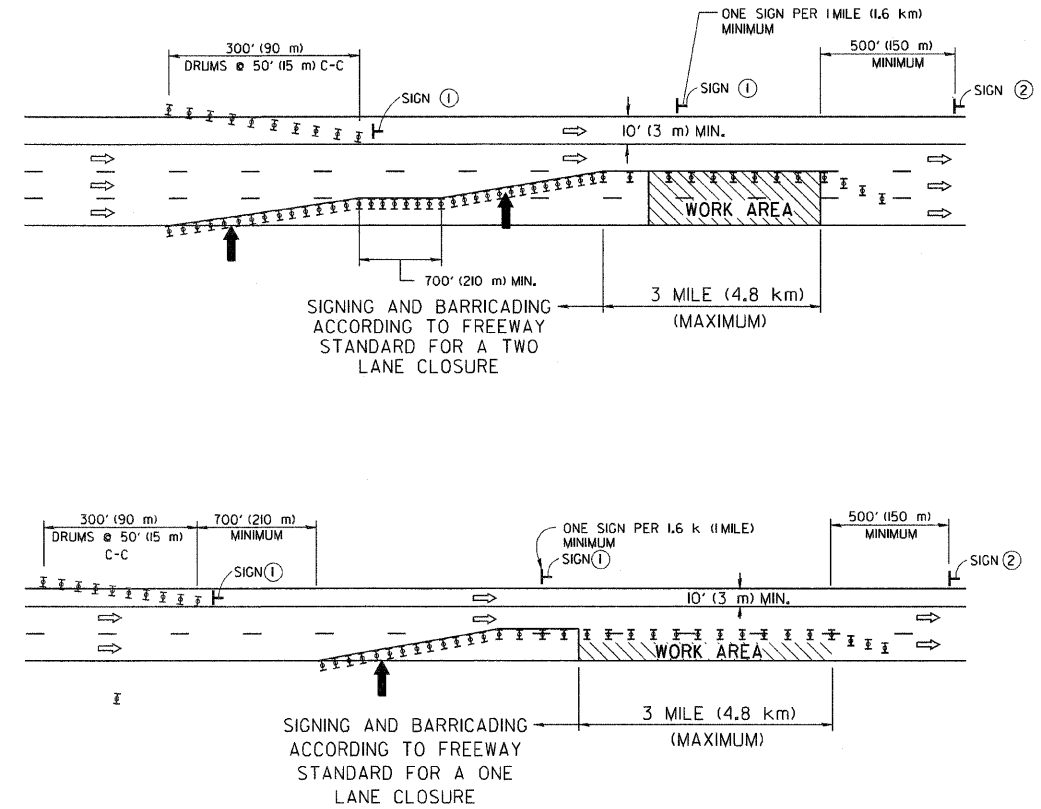
1. DAY OPERATIONS: CONES SHALL BE USED AT 25' (8 m) CENTERS ON TAPERS AND AT 50' (15 m) CENTERS ON TANGENTS.
2. NIGHT OPERATIONS: DRUMS WITH STEADY BURN LIGHTS SHALL BE USED AT 50' (15 m) CENTERS ON ALL TAPERS AND TANGENTS IN ADVANCE OF WORK AREA.
3. CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.

INSTALLATION SEQUENCE



SHOULDER LANE

NOTE: CLOSURE SHALL BE USED ONLY FOR OPERATIONS LASTING 72 HOURS OR LESS.



6 (150) SERIES "C" LEGEND
BLACK LEGEND
WHITE REFLECT. BACKGROUND
(125) BORDER

SYMBOLS

- ↑ DIRECTION OF TRAFFIC
- ➔ ARROWBOARD
- ▨ WORK AREA
- ◇ SIGN WITH 18x18 (450x450) ORANGE FLAGS ATTACHED *
- ⊥ SIGN ON PORTABLE OR PERMANENT SUPPORT *
- ⊥ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

* ALL SIGNS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).

FILE NAME = W:\distatd\22x34\to25.dgn	USER NAME = gajlenobt	DESIGNED -	REVISED - J.A.F. 04-03
		DRAWN -	REVISED - S.P.B. 01-07
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

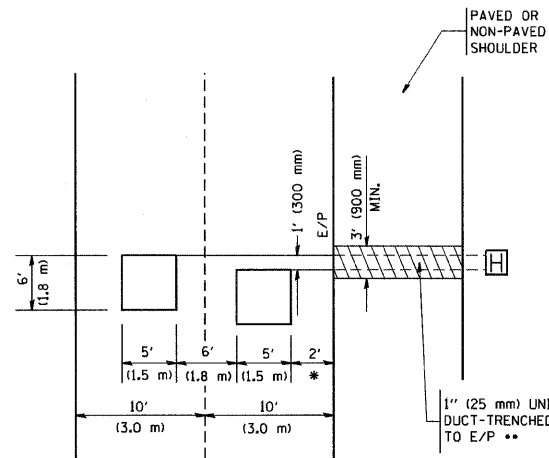
TRAFFIC CONTROL DETAILS FOR FREEWAY
CENTER LANE CLOSURE SHOULDER LANE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
352	56 RS-8	LAKE	39	38
TC-25		CONTRACT NO. 60E23		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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



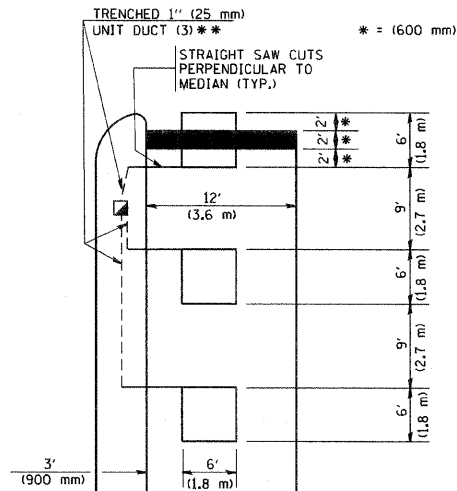
* = (600 mm)

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

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

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



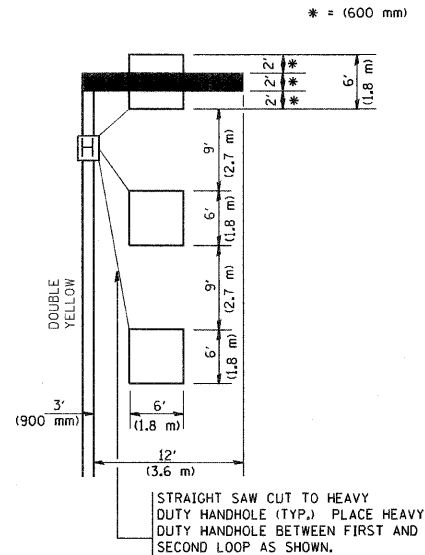
* = (600 mm)

** 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**

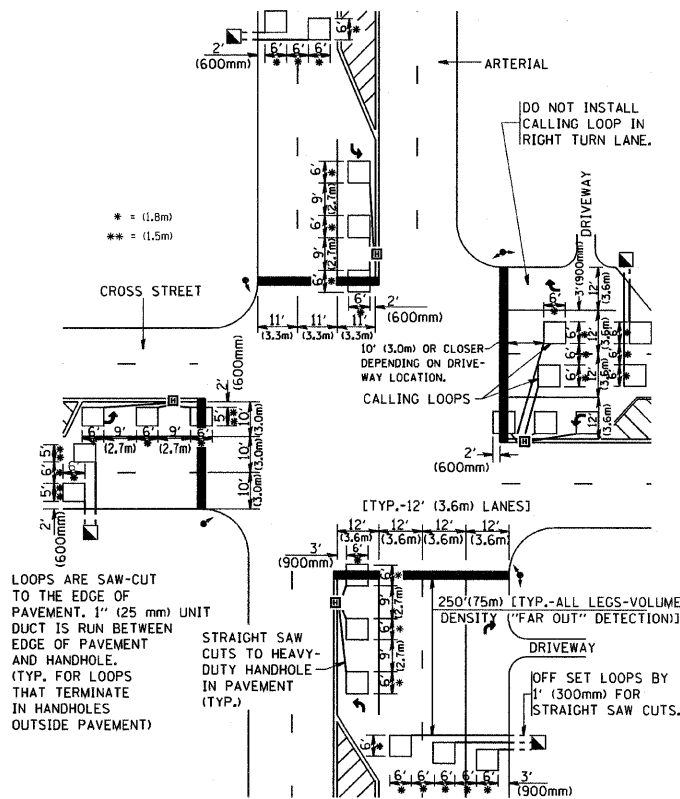
(PROTECTED / PERMITTED LEFT TURN PHASING)



* = (600 mm)

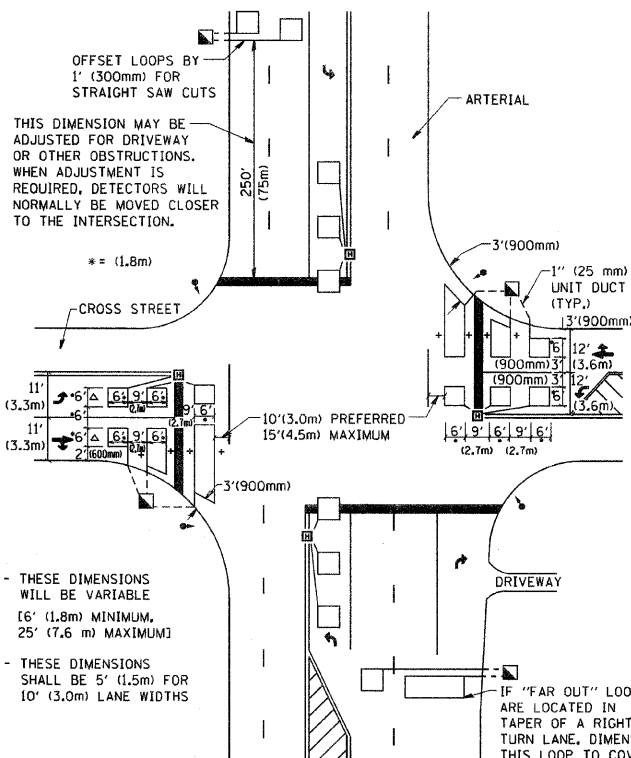
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO
PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**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:\distatd\22x34\ts07.dgn	USER NAME = gaglianob	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	DRAWN -	REVISED -		352	56 RS-8	LAKE	39	39			
	PLOT DATE = 1/4/2008	CHECKED - R.K.F.	REVISED -		TS-07			CONTRACT NO. 60E23				
		DATE -	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				