6-12-09 Letting, Item 277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	1
FED. ROAD DIST. NO. 1	ILLINOIS	CONTRACT NO. 60H02		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.U. ROUTE 1270: LAKE COOK ROAD / MAIN STREET
HART ROAD TO QUENTIN ROAD
SECTION: 0506 RS-12
RESURFACING (3P)
LAKE COUNTY
C-91-558-09

FOR INDEX OF SHEETS, SEE SHEET NO. 2

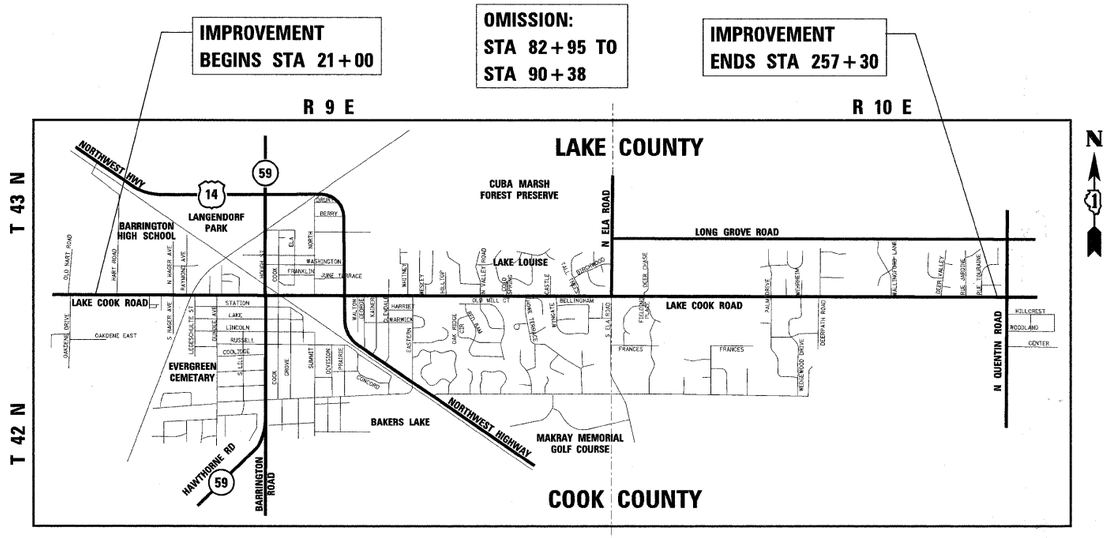
IMPROVEMENT LOCATED IN THE VILLAGES OF BARRINGTON AND DEER PARK

2006 ADT = 19,300 VEHICLES PER DAY
SPEED LIMIT = 25 - 45 MPH

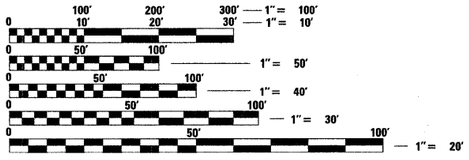
IMPROVEMENT BEGINS STA 21+00

OMISSION: STA 82+95 TO STA 90+38

IMPROVEMENT ENDS STA 257+30



CUBA & ELA TOWNSHIPS



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

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

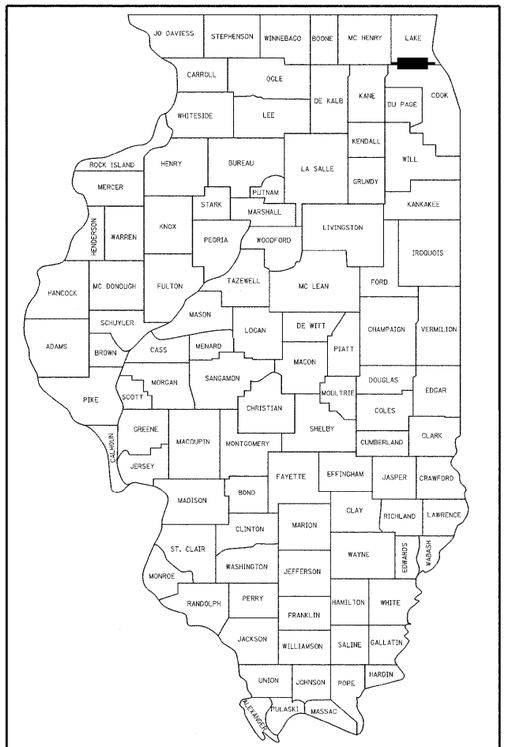
GROSS LENGTH OF PROJECT = 23,630 FT = 4.48 MILES
NET LENGTH OF PROJECT = 22,887 FT = 4.33 MILES

LOCATION MAP
NOT TO SCALE

PROJECT ENGINEER: MICHELLE AQUINO (847) 705-4606
PROJECT MANAGER: LONG TRAN (847) 705-4232

CONTRACT NO. 60H02

D-91-558-09



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED May 7, 2009
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
May 8, 2009
Charles J. Ingersoll PE
ENGINEER OF DESIGN AND ENVIRONMENT
May 8, 2009
Christine M. Reed PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

MARK A. KAZIK
39279
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
Expires 11/30/09

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200 West Front Street
Wheaton, Il 60187

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INDEX OF SHEETS

STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
442201-03	CLASS C AND D PATCHES
701201-03	LANE CLOSURE, 2L, 2W DAY ONLY ON-ROAD TO 600MM (24") OFF ROAD FOR SPEEDS LESS THAN 45 MPH
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-02	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS, DAY ONLY, FOR SPEEDS $\geq$ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS, DAY ONLY
701421-02	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS $\geq$ 45 MPH TO 55 MPH
701426-03	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS $\geq$ 45 MPH
701501-05	URBAN LANE CLOSURE, 2L, 2W UNDIVIDED
701701-06	URBAN LANE CLOSURE MULTILANE INTERSECTION
701901-01	TRAFFIC CONTROL DEVICES

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800)892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED.)
2. ALL PAVEMENT MARKING SHALL BE PLACED THROUGHOUT THE PROJECT ACCORDING TO DISTRICT 1 TYPICAL PAVEMENT MARKING.
3. ALL HMA PAVEMENT PATCHING SHALL BE CLASS D.
4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
5. ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
6. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD (FOR FUTURE REFERENCES), ALL EXISTING PAVEMENT MARKING LINES IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
7. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
8. DRAINAGE ADJUSTMENT, CLEANING OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
9. FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
10. THE RESIDENT ENGINEER SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
11. THE ENGINEER SHALL CONTACT MS. DEBBIE HANLON, THE TRAFFIC FIELD ENGINEER, @ 847-438-2300 TWO (2) WEEKS PRIOR TO THE START OF THIS PROJECT SO THAT EXACT STATIONING OF NO PASSING ZONES AND OTHER PERMANENT PAVEMENT MARKINGS MAY BE ~~ESTABLISHED~~.
12. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
13. 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.
14. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
15. DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL FOR TYPICAL APPLICATION OF RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) SHOWN IN THE PLANS.
16. 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.
17. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1½INCHES (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H)
18. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
19. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
20. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
21. CURB AND GUTTER REMOVAL AND REPLACEMENT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

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MODEL =

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DRAWN - JMT		REVISED -
CHECKED - BLB		REVISED -
DATE - 5/5/2009 4:14:43 PM		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COOK ROAD

SCALE: | SHEET NO. 2 OF 30 SHEETS | STA. _____ TO STA. _____

INDEX OF SHEETS, GENERAL NOTES AND STATE STANDARDS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	2
		CONTRACT NO.60H02		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

	CODE NO.	ITEM DESCRIPTION	UNIT	100% STATE TOTAL QUANTITY (URBAN)	CONSTRUCTION TYPE CODE 1000-~~2A~~
	20201006	GRADING AND SHAPING SHOULDERS	UNIT	310	310
	40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	38	38
	40600300	AGGREGATE (PRIME COAT)	TON	188	188
	40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	27	27
	40600895	CONSTRUCTING TEST STRIP	EACH	2	2
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1314	1314
	40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	1277	1277
	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	7889	7889
	42001300	PROTECTIVE COAT	SQ YD	100	100
	44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	93917	93917
	44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	500	500
	44002216	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4"	SQ YD	5700	5700
	44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	500	500
	44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	2800	2800
	44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	1200	1200
	44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	1200	1200
	48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1240	1240
	55039700	STORM SEWERS TO BE CLEANED	FOOT	1000	1000
	60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	30	30
	60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	164	164
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
	67100100	MOBILIZATION	L SUM	1	1
•	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
•	70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
•	70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1	1
•	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1
•	70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	3,271	3,271
•	70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	932	932
•	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	58,333	58,333
•	70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	4,148	4,148
•	70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	2,194	2,194
•	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	908	908

• SPECIALTY ITEM

SUMMARY OF QUANTITIES

	CODE NO.	ITEM DESCRIPTION	UNIT	100% STATE TOTAL QUANTITY	CONSTRUCTION TYPE CODE 1000
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,091	1,091
•	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	932	932
•	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	58,333	58,333
•	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	4,148	4,148
•	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2,194	2,194
•	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	908	908
•	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	291	291
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	260	260
•	88600600	DETECTOR LOOP REPLACEMENT	FOOT	3,462	3,462
	X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	52	52
	X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	3945	3945
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	75	75
	Z0018600	DRAINAGE STRUCTURES TO BE RECONSTRUCTED	EACH	5	5

• SPECIALTY ITEM

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CHECKED - BLB	REVISED -	
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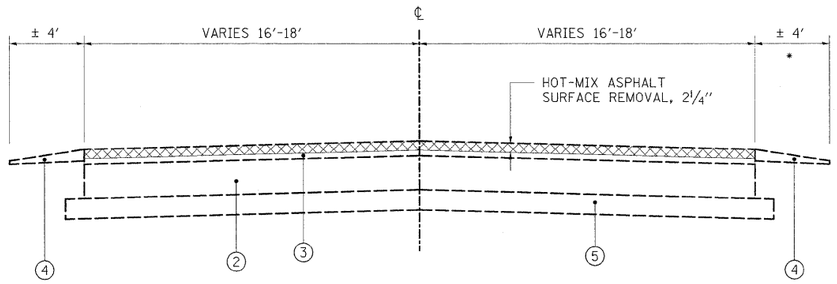
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COOK ROAD

SCALE: | SHEET NO. __ OF 30 SHEETS | STA. _____ TO STA. _____

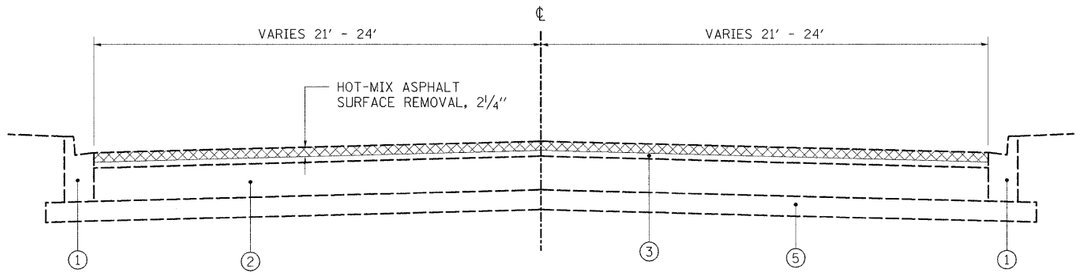
SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	3
		CONTRACT NO. 60H02		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



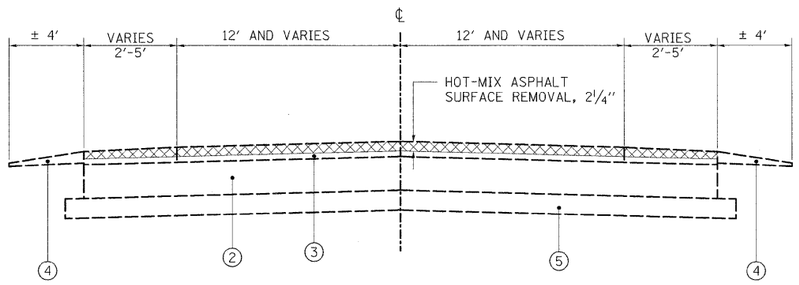
EXISTING TYPICAL SECTION LAKE COOK ROAD

STA. 21+00 TO STA. 36+50
• B-6.12 CURB AND GUTTER STA. 30+00 TO STA. 36+50



EXISTING TYPICAL SECTION LAKE COOK ROAD

STA. 36+50 TO STA. 82+95



EXISTING TYPICAL SECTION LAKE COOK ROAD

STA. 90+38 TO STA. 257+30

LEGEND

1. EXISTING COMBINATION CURB AND GUTTER, TYPE B-6.12
2. EXISTING PCC PAVEMENT, ±10″
3. EXISTING HOT-MIX ASPHALT PAVEMENT, ±4″ (BEFORE SURFACE REMOVAL)
4. EXISTING AGGREGATE SHOULDER
5. EXISTING AGGREGATE BASE COURSE
6. PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, ¾″
7. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½″
8. PROPOSED GRADING & SHAPING SHOULDERS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

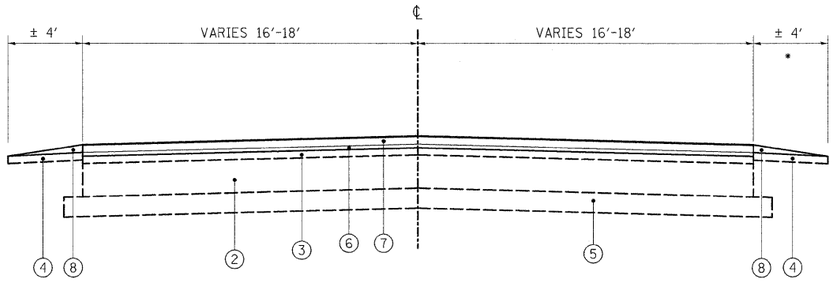
LAKE COOK ROAD — **EXISTING TYPICAL SECTIONS**

SCALE: | SHEET NO. 4 OF 30 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	4

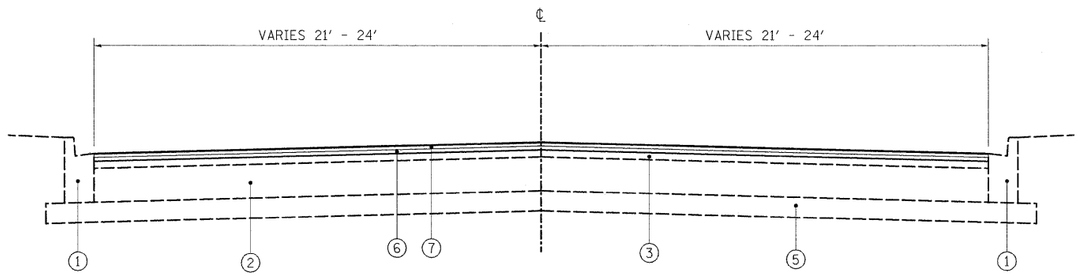
CONTRACT NO. 60H02

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



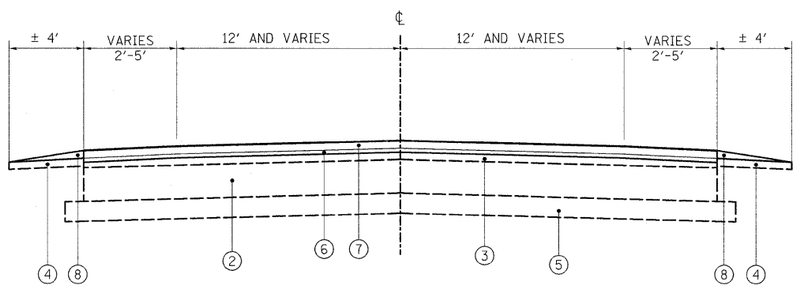
PROPOSED TYPICAL SECTION LAKE COOK ROAD

STA. 21+00 TO STA. 36+50
* B-6.12 CURB AND GUTTER STA. 30+00 TO STA. 36+50



PROPOSED TYPICAL SECTION LAKE COOK ROAD

STA. 36+50 TO STA. 82+95



PROPOSED TYPICAL SECTION LAKE COOK ROAD

STA. 90+38 TO STA. 257+30

HOT-MIX ASPHALT MIXTURE

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

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

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

LEGEND

1. EXISTING COMBINATION CURB AND GUTTER, TYPE B-6.12
2. EXISTING PCC PAVEMENT, ±10"
3. EXISTING HOT-MIX ASPHALT PAVEMENT, ±4" (BEFORE SURFACE REMOVAL)
4. EXISTING AGGREGATE SHOULDER
5. EXISTING AGGREGATE BASE COURSE
6. PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
7. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
8. PROPOSED GRADING & SHAPING SHOULDERS

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DRAWN	JMT	REVISED -
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DATE	5/5/2009 4:17:05 PM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

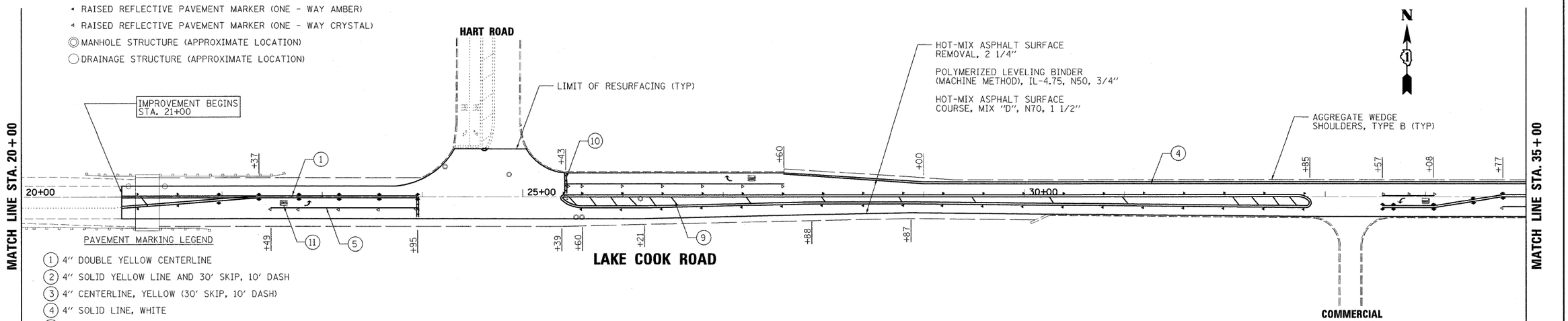
LAKE COOK ROAD | **PROPOSED TYPICAL SECTIONS**

SCALE: | SHEET NO. 5 OF 30 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	5
		CONTRACT NO. 60H02		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SYMBOLS LEGEND

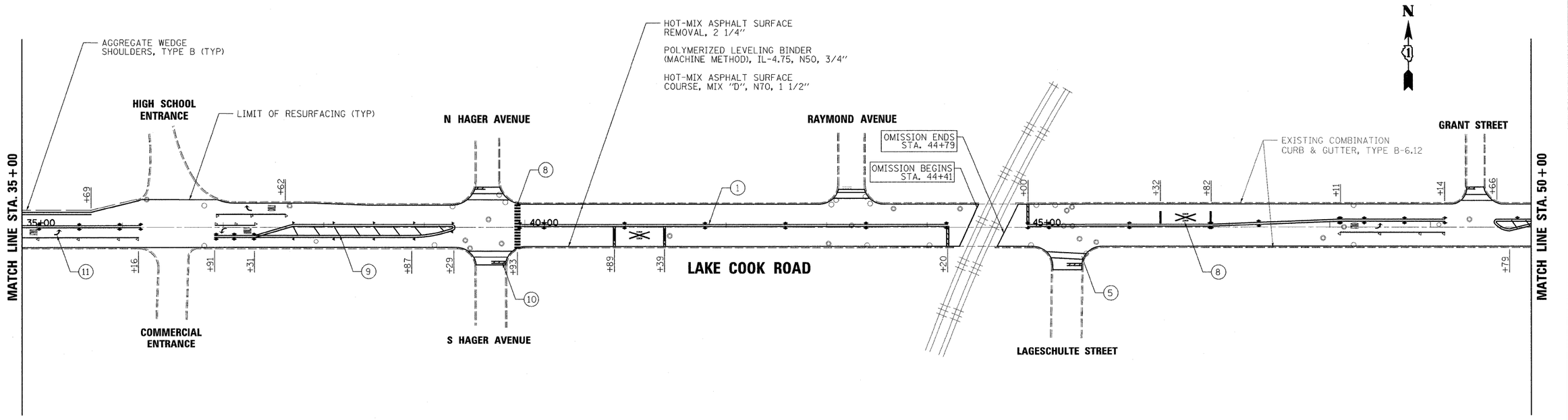
- RAISED REFLECTIVE PAVEMENT MARKER (TWO - WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE - WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE - WAY CRYSTAL)
- MANHOLE STRUCTURE (APPROXIMATE LOCATION)
- DRAINAGE STRUCTURE (APPROXIMATE LOCATION)



PAVEMENT MARKING LEGEND

1. 4" DOUBLE YELLOW CENTERLINE
2. 4" SOLID YELLOW LINE AND 30' SKIP, 10' DASH
3. 4" CENTERLINE, YELLOW (30' SKIP, 10' DASH)
4. 4" SOLID LINE, WHITE
5. 6" SOLID LINE, WHITE
6. 6" LINE, WHITE (30' SKIP, 10' DASH)
7. 6" LINE, WHITE (6' SKIP, 2' DASH)
8. 12" SOLID LINE, WHITE
9. 12" SOLID LINE, YELLOW
10. 24" SOLID LINE, WHITE
11. LETTERS AND SYMBOLS, WHITE

*ALL PAVEMENT MARKING SHALL BE THERMOPLASTIC



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Wheaton, Il 60187

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CHECKED - BLB		REVISED -
DATE - 5/5/2009 11:05:06 AM		REVISED -

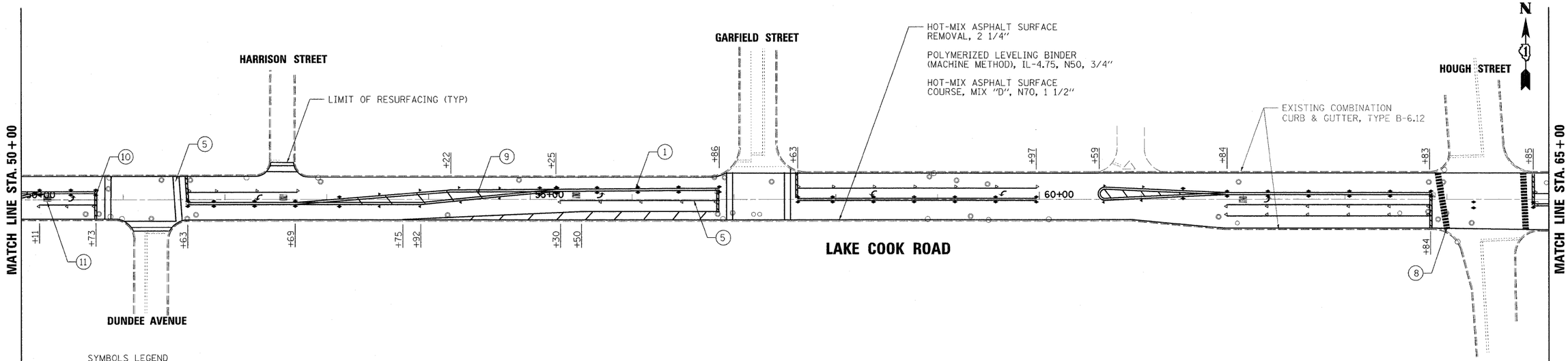
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COOK ROAD

SCALE: 1"=50' | SHEET NO. 6 OF 30 SHEETS | STA.20+00 TO STA.50+00

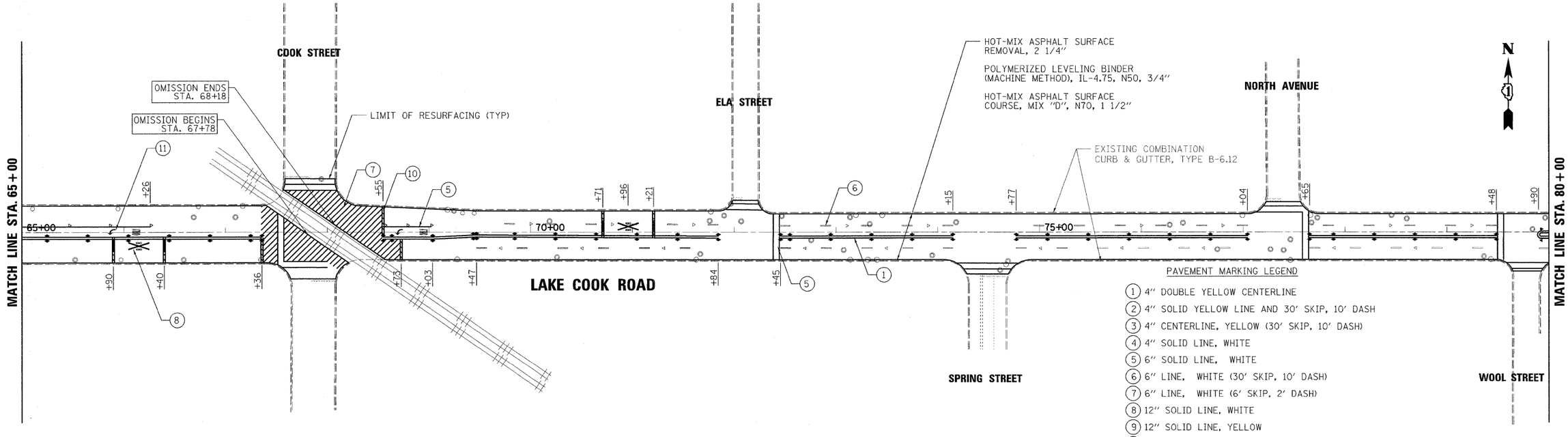
PLAN AND PAVEMENT MARKING DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	6
		CONTRACT NO.60H02		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



SYMBOLS LEGEND

- RAISED REFLECTIVE PAVEMENT MARKER (TWO - WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE - WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE - WAY CRYSTAL)
- MANHOLE STRUCTURE (APPROXIMATE LOCATION)
- DRAINAGE STRUCTURE (APPROXIMATE LOCATION)



PAVEMENT MARKING LEGEND

1. 4" DOUBLE YELLOW CENTERLINE
2. 4" SOLID YELLOW LINE AND 30' SKIP, 10' DASH
3. 4" CENTERLINE, YELLOW (30' SKIP, 10' DASH)
4. 4" SOLID LINE, WHITE
5. 6" SOLID LINE, WHITE
6. 6" LINE, WHITE (30' SKIP, 10' DASH)
7. 6" LINE, WHITE (6' SKIP, 2' DASH)
8. 12" SOLID LINE, WHITE
9. 12" SOLID LINE, YELLOW
10. 24" SOLID LINE, WHITE
11. LETTERS AND SYMBOLS, WHITE

*ALL PAVEMENT MARKING SHALL BE THERMOPLASTIC

PLOT DATE = 5/5/2009
FILE NAME = k:\1225514\lake-cook road\sheets\lakecook-02.dgn
PLOT SCALE = 1.0
USER NAME = Jmassey
MODEL = Default

rjngroup
Excellence through Ownership
200 West Front Street
Wheaton, Il 60187

DESIGNED	MAK	REVISED	-
DRAWN	JMT	REVISED	-
CHECKED	BLB	REVISED	-
DATE	5/5/2009 11:05:06 AM	REVISED	-

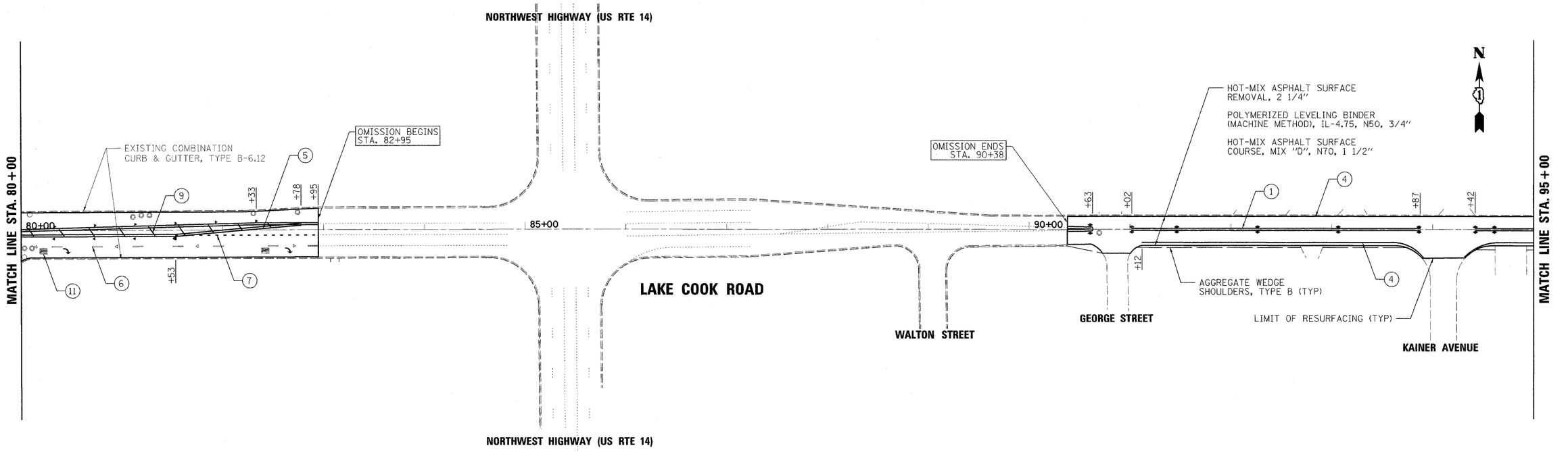
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COOK ROAD

SCALE: 1"=50' | SHEET NO. 7 OF 30 SHEETS | STA.50+00 TO STA.80+00

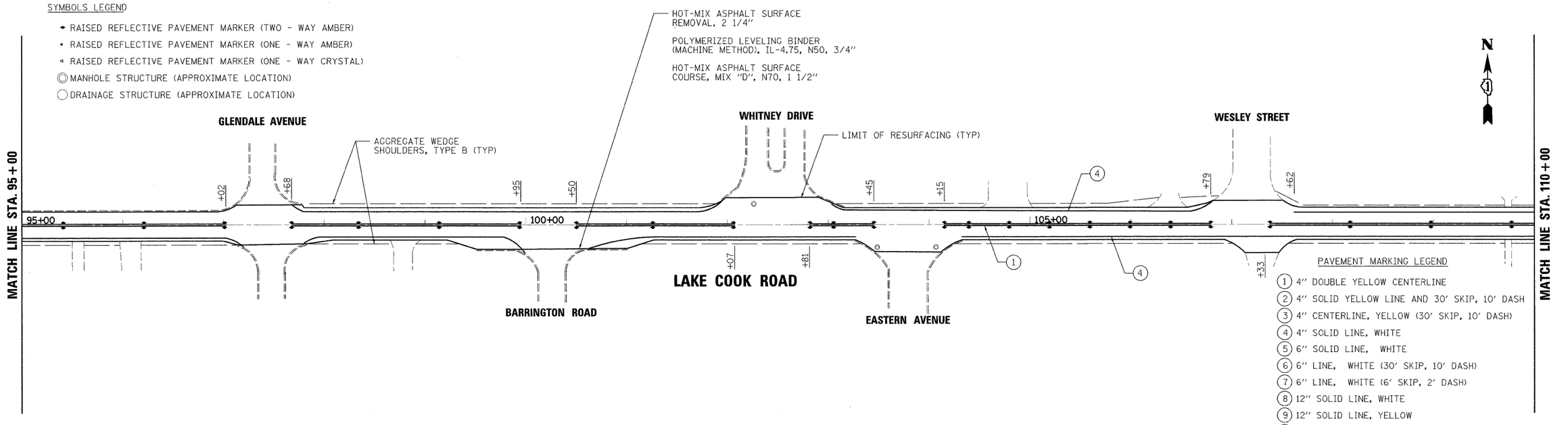
PLAN AND PAVEMENT MARKING DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	7
		CONTRACT NO.60H02		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



SYMBOLS LEGEND

- RAISED REFLECTIVE PAVEMENT MARKER (TWO - WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE - WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE - WAY CRYSTAL)
- MANHOLE STRUCTURE (APPROXIMATE LOCATION)
- DRAINAGE STRUCTURE (APPROXIMATE LOCATION)



PAVEMENT MARKING LEGEND

1. 4" DOUBLE YELLOW CENTERLINE
2. 4" SOLID YELLOW LINE AND 30' SKIP, 10' DASH
3. 4" CENTERLINE, YELLOW (30' SKIP, 10' DASH)
4. 4" SOLID LINE, WHITE
5. 6" SOLID LINE, WHITE
6. 6" LINE, WHITE (30' SKIP, 10' DASH)
7. 6" LINE, WHITE (6' SKIP, 2' DASH)
8. 12" SOLID LINE, WHITE
9. 12" SOLID LINE, YELLOW
10. 24" SOLID LINE, WHITE
11. LETTERS AND SYMBOLS, WHITE

*ALL PAVEMENT MARKING SHALL BE THERMOPLASTIC

PLOT DATE = 5/5/2009
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PLOT SCALE = 1'=0
USER NAME = jfreeny
MODEL = Default

rjngroup
Excellence through Ownership
200 West Front Street
Wheaton, Il 60187

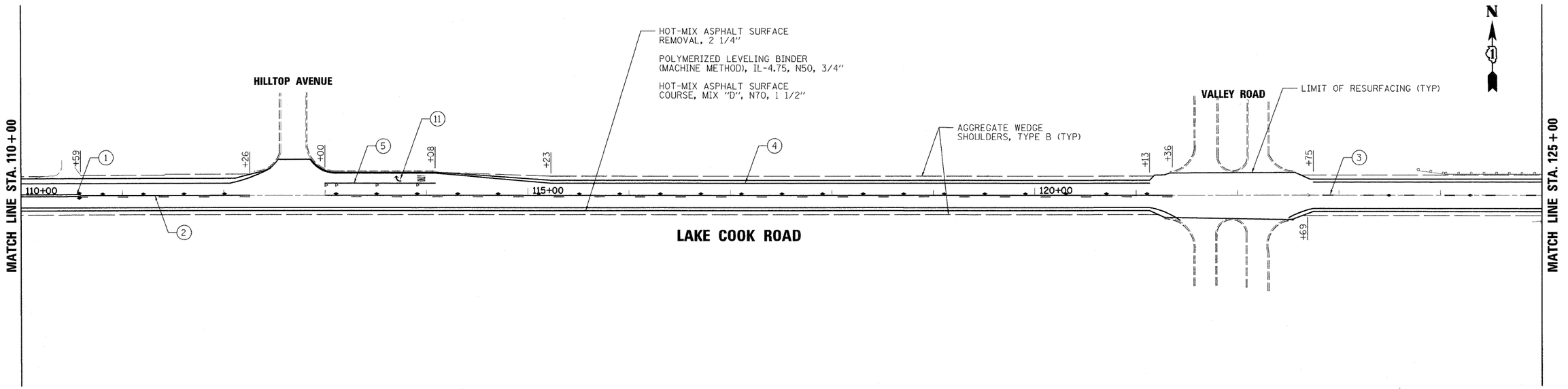
DESIGNED - MAK	REVISED -	
DRAWN - JMT	REVISED -	
CHECKED - BLB	REVISED -	
DATE - 5/5/2009 11:05:06 AM	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COOK ROAD
SCALE: 1"=50' | SHEET NO. 8 OF 30 SHEETS | STA.80+00 TO STA.110+00

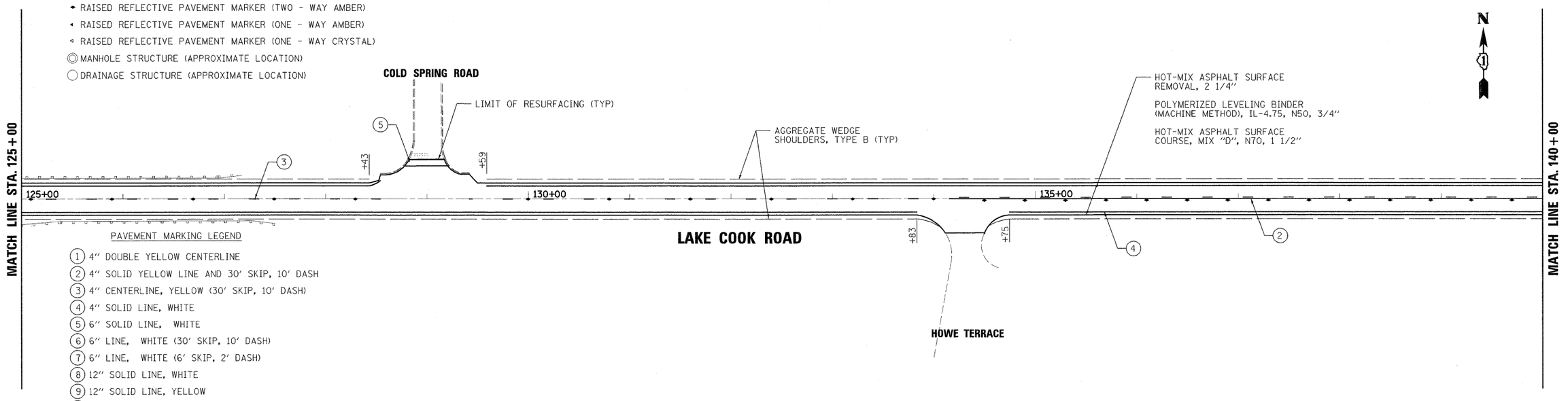
PLAN AND PAVEMENT MARKING DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	8
		CONTRACT NO.60H02		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



SYMBOLS LEGEND

- RAISED REFLECTIVE PAVEMENT MARKER (TWO - WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE - WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE - WAY CRYSTAL)
- MANHOLE STRUCTURE (APPROXIMATE LOCATION)
- DRAINAGE STRUCTURE (APPROXIMATE LOCATION)



PAVEMENT MARKING LEGEND

1. 4" DOUBLE YELLOW CENTERLINE
2. 4" SOLID YELLOW LINE AND 30' SKIP, 10' DASH
3. 4" CENTERLINE, YELLOW (30' SKIP, 10' DASH)
4. 4" SOLID LINE, WHITE
5. 6" SOLID LINE, WHITE
6. 6" LINE, WHITE (30' SKIP, 10' DASH)
7. 6" LINE, WHITE (6' SKIP, 2' DASH)
8. 12" SOLID LINE, WHITE
9. 12" SOLID LINE, YELLOW
10. 24" SOLID LINE, WHITE
11. LETTERS AND SYMBOLS, WHITE

*ALL PAVEMENT MARKING SHALL BE THERMOPLASTIC

PLOT DATE = 5/5/2009
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PLOT SCALE = 1.0000
USER NAME = jimoney
MODEL = Default

rjngroup
Excellence through Ownership
200 West Front Street
Wheaton, Il 60187

DESIGNED	MAK	REVISED	-
DRAWN	JMT	REVISED	-
CHECKED	BLB	REVISED	-
DATE	5/5/2009 11:05:06 AM	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COOK ROAD

SCALE: 1"=50' | SHEET NO. 9 OF 30 SHEETS | STA.110+00 TO STA.140+00

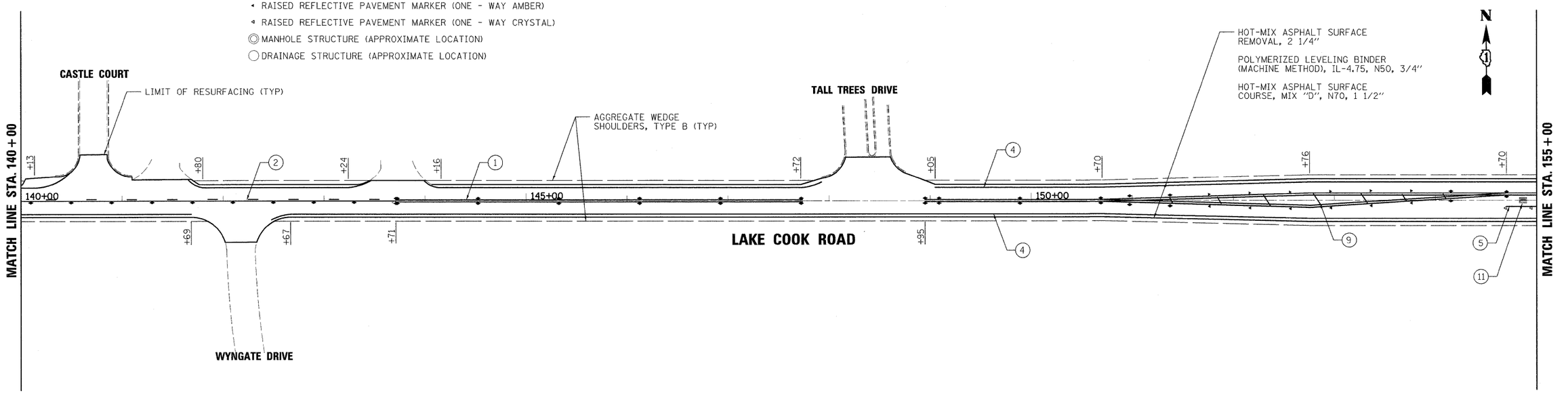
PLAN AND PAVEMENT MARKING DETAILS

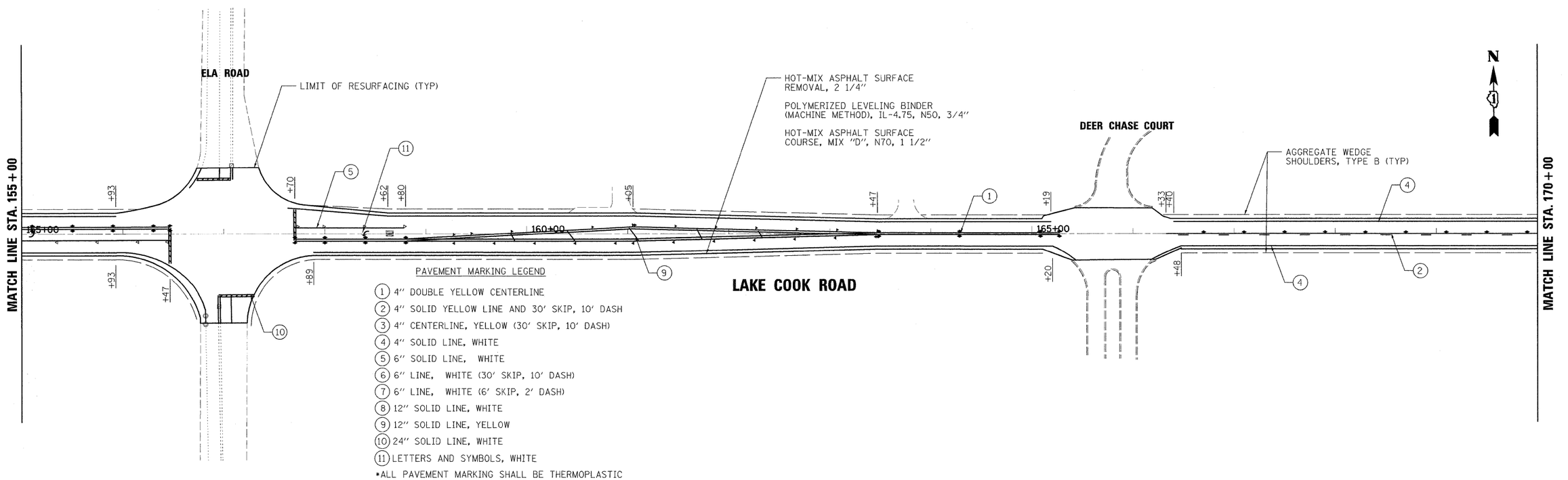
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	9
		CONTRACT NO.60H02		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

SYMBOLS LEGEND

- RAISED REFLECTIVE PAVEMENT MARKER (TWO - WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE - WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE - WAY CRYSTAL)
- MANHOLE STRUCTURE (APPROXIMATE LOCATION)
- DRAINAGE STRUCTURE (APPROXIMATE LOCATION)





PAVEMENT MARKING LEGEND

1. 4" DOUBLE YELLOW CENTERLINE
2. 4" SOLID YELLOW LINE AND 30' SKIP, 10' DASH
3. 4" CENTERLINE, YELLOW (30' SKIP, 10' DASH)
4. 4" SOLID LINE, WHITE
5. 6" SOLID LINE, WHITE
6. 6" LINE, WHITE (30' SKIP, 10' DASH)
7. 6" LINE, WHITE (6' SKIP, 2' DASH)
8. 12" SOLID LINE, WHITE
9. 12" SOLID LINE, YELLOW
10. 24" SOLID LINE, WHITE
11. LETTERS AND SYMBOLS, WHITE

*ALL PAVEMENT MARKING SHALL BE THERMOPLASTIC

PLOT DATE = 5/5/2009
FILE NAME = k:\1225514\lake-cook road\cad\sheets\lakecook-05.dgn
PLOT SCALE = 1.0
USER NAME = Tracey
MODEL = Default

rjngroup
Excellence through Ownership

200 West Front Street
Wheaton, Il 60187

DESIGNED - MAK	REVISED -	
DRAWN - JMT	REVISED -	
CHECKED - BLB	REVISED -	
DATE - 5/5/2009 11:05:06 AM	REVISED -	

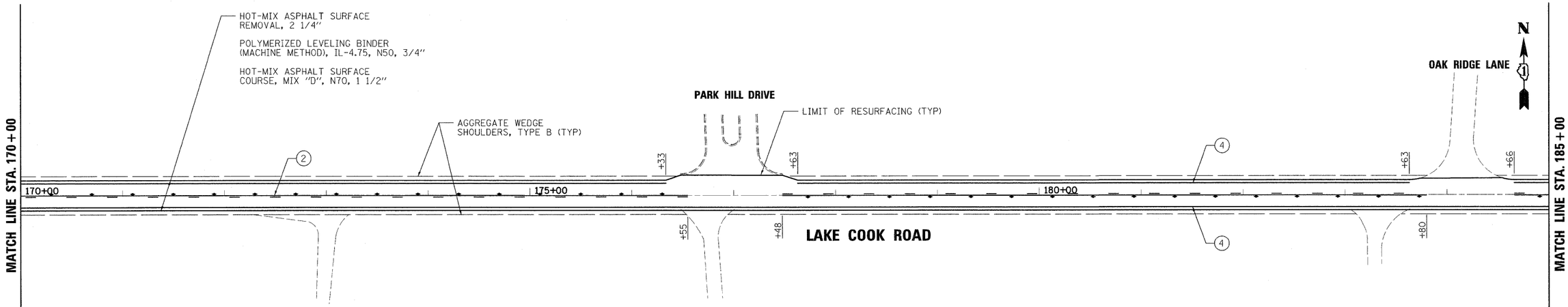
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COOK ROAD

SCALE: 1"=50' | SHEET NO. 10 OF 30 SHEETS | STA.140+00 | TO STA.170+00

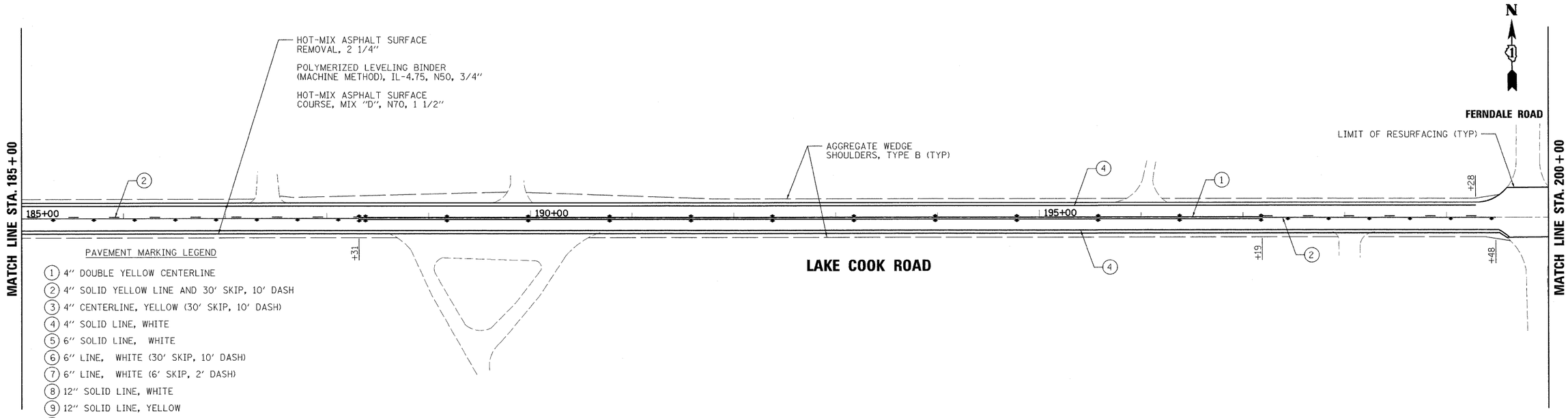
PLAN AND PAVEMENT MARKING DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	10
		CONTRACT NO.60H02		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



SYMBOLS LEGEND

- RAISED REFLECTIVE PAVEMENT MARKER (TWO - WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE - WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE - WAY CRYSTAL)
- MANHOLE STRUCTURE (APPROXIMATE LOCATION)
- DRAINAGE STRUCTURE (APPROXIMATE LOCATION)



PAVEMENT MARKING LEGEND

1. 4" DOUBLE YELLOW CENTERLINE
2. 4" SOLID YELLOW LINE AND 30' SKIP, 10' DASH
3. 4" CENTERLINE, YELLOW (30' SKIP, 10' DASH)
4. 4" SOLID LINE, WHITE
5. 6" SOLID LINE, WHITE
6. 6" LINE, WHITE (30' SKIP, 10' DASH)
7. 6" LINE, WHITE (6' SKIP, 2' DASH)
8. 12" SOLID LINE, WHITE
9. 12" SOLID LINE, YELLOW
10. 24" SOLID LINE, WHITE
11. LETTERS AND SYMBOLS, WHITE

*ALL PAVEMENT MARKING SHALL BE THERMOPLASTIC

PLOT DATE = 5/5/2009
FILE NAME = k:\12255\d\lake-cook road\sheets\lakecook-06.dgn
PW ZONE = ITEP
USER NAME = JTracey
MODEL = Default

rjngroup
Excellence through Ownership
200 West Front Street
Wheaton, Il 60187

DESIGNED - MAK	REVISED -	
DRAWN - JMT	REVISED -	
CHECKED - BLB	REVISED -	
DATE - 5/5/2009 11:05:06 AM	REVISED -	

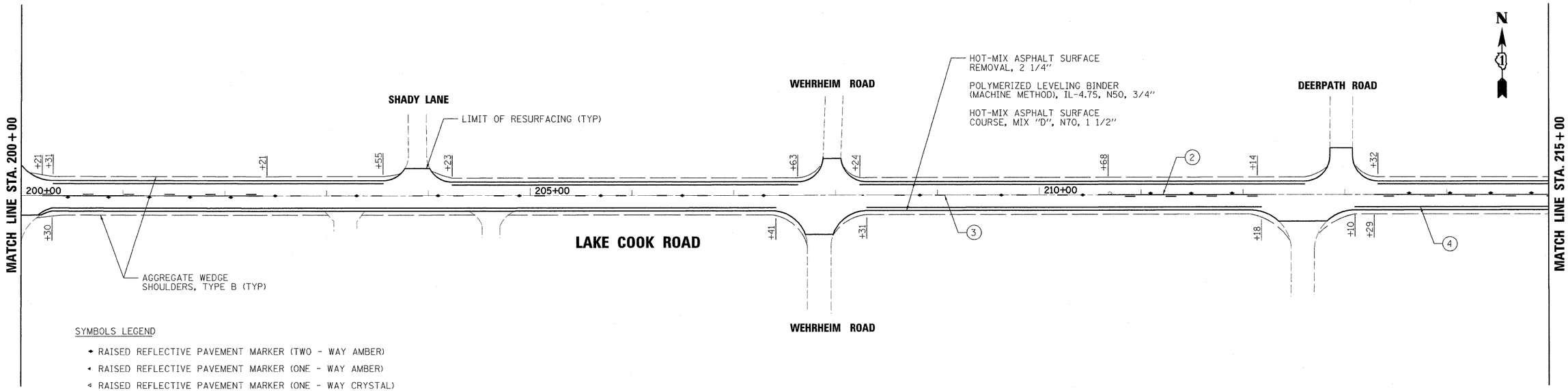
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COOK ROAD

SCALE: 1"=50' | SHEET NO. 11 OF 30 SHEETS | STA.170+00 | TO STA.200+00

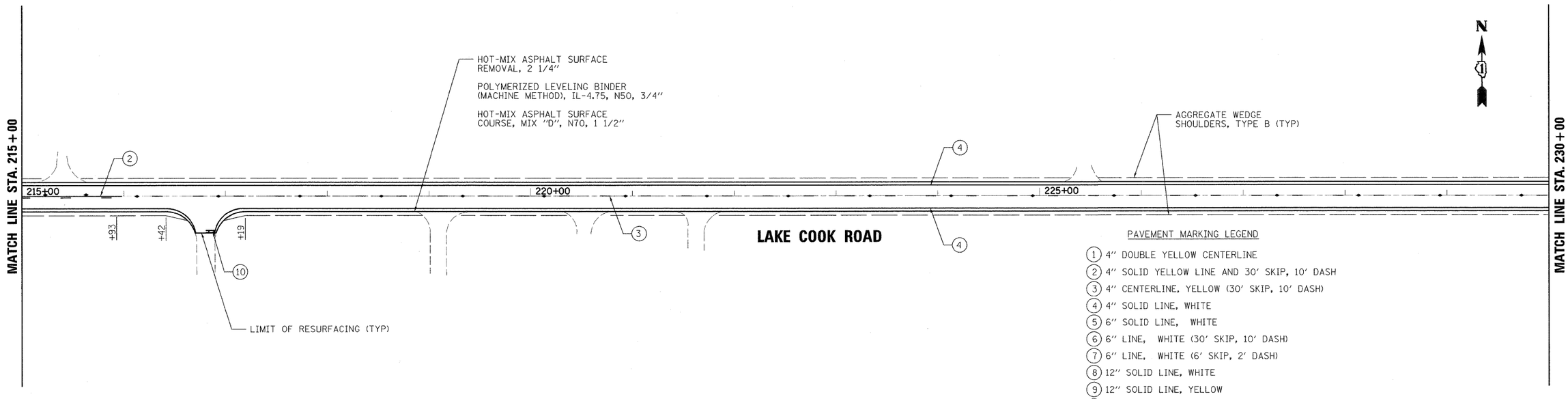
PLAN AND PAVEMENT MARKING DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	11
		CONTRACT NO.60H02		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



SYMBOLS LEGEND

- RAISED REFLECTIVE PAVEMENT MARKER (TWO - WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE - WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE - WAY CRYSTAL)
- MANHOLE STRUCTURE (APPROXIMATE LOCATION)
- DRAINAGE STRUCTURE (APPROXIMATE LOCATION)



PAVEMENT MARKING LEGEND

1. 4" DOUBLE YELLOW CENTERLINE
2. 4" SOLID YELLOW LINE AND 30' SKIP, 10' DASH
3. 4" CENTERLINE, YELLOW (30' SKIP, 10' DASH)
4. 4" SOLID LINE, WHITE
5. 6" SOLID LINE, WHITE
6. 6" LINE, WHITE (30' SKIP, 10' DASH)
7. 6" LINE, WHITE (6' SKIP, 2' DASH)
8. 12" SOLID LINE, WHITE
9. 12" SOLID LINE, YELLOW
10. 24" SOLID LINE, WHITE
11. LETTERS AND SYMBOLS, WHITE

*ALL PAVEMENT MARKING SHALL BE THERMOPLASTIC

PLOT DATE = 5/5/2009
FILE NAME = k:\1122514\lake-cook road\road\sheets\lakecook-07.dgn
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MODEL = Default

rjngroup
Excellence through Ownership

200 West Front Street
Wheaton, Il 60187

DESIGNED	- MAK	REVISED	-
DRAWN	- JMT	REVISED	-
CHECKED	- BLB	REVISED	-
DATE	- 5/5/2009 11:05:06 AM	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COOK ROAD

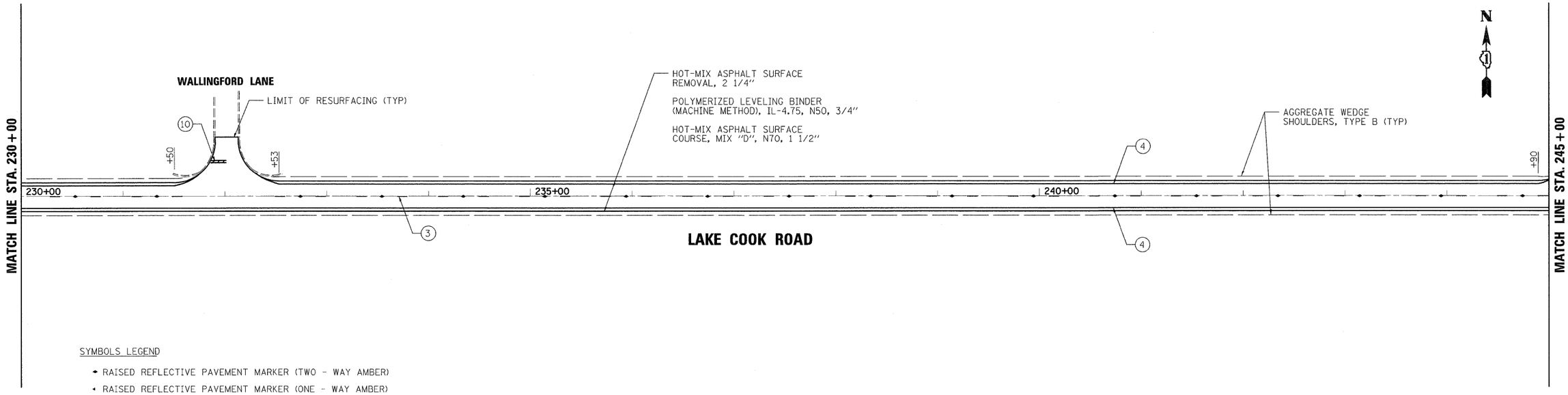
SCALE: 1"=50' | SHEET NO. 12 OF 30 SHEETS | STA.200+00 TO STA.230+00

PLAN AND PAVEMENT MARKING DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	12

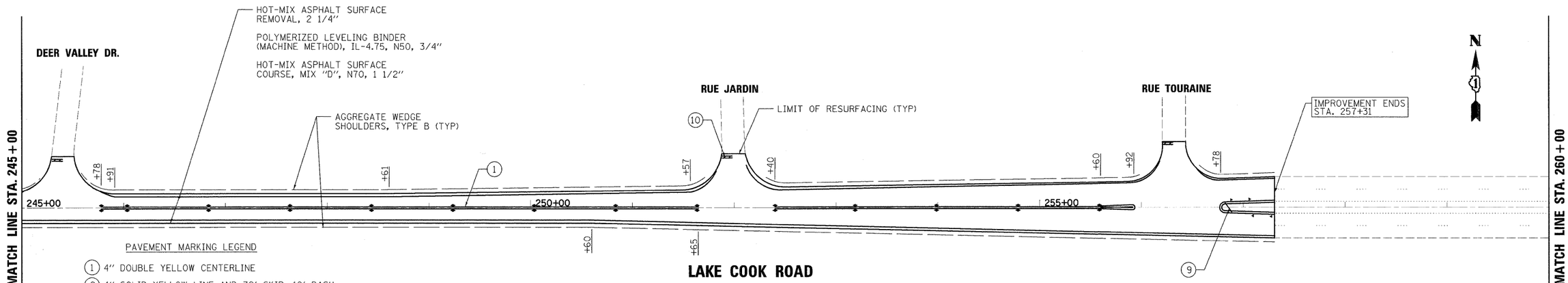
CONTRACT NO.60H02

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



SYMBOLS LEGEND

- RAISED REFLECTIVE PAVEMENT MARKER (TWO - WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE - WAY AMBER)
- RAISED REFLECTIVE PAVEMENT MARKER (ONE - WAY CRYSTAL)
- MANHOLE STRUCTURE (APPROXIMATE LOCATION)
- DRAINAGE STRUCTURE (APPROXIMATE LOCATION)



PAVEMENT MARKING LEGEND

1. 4" DOUBLE YELLOW CENTERLINE
2. 4" SOLID YELLOW LINE AND 30' SKIP, 10' DASH
3. 4" CENTERLINE, YELLOW (30' SKIP, 10' DASH)
4. 4" SOLID LINE, WHITE
5. 6" SOLID LINE, WHITE
6. 6" LINE, WHITE (30' SKIP, 10' DASH)
7. 6" LINE, WHITE (6' SKIP, 2' DASH)
8. 12" SOLID LINE, WHITE
9. 12" SOLID LINE, YELLOW
10. 24" SOLID LINE, WHITE
11. LETTERS AND SYMBOLS, WHITE

*ALL PAVEMENT MARKING SHALL BE THERMOPLASTIC

PLOT DATE = 5/5/2009
FILE NAME = k:\1229514\lake-cook road\cad\sheets\lakecook-08.dgn
USER NAME = jtp
USER KEY = jmacey
MODEL = Default

rjngroup
Excellence through Ownership
200 West Front Street
Wheaton, Il 60187

DESIGNED - MAK		REVISED -
DRAWN - JMT		REVISED -
CHECKED - BLB		REVISED -
DATE - 5/5/2009 11:05:06 AM		REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COOK ROAD

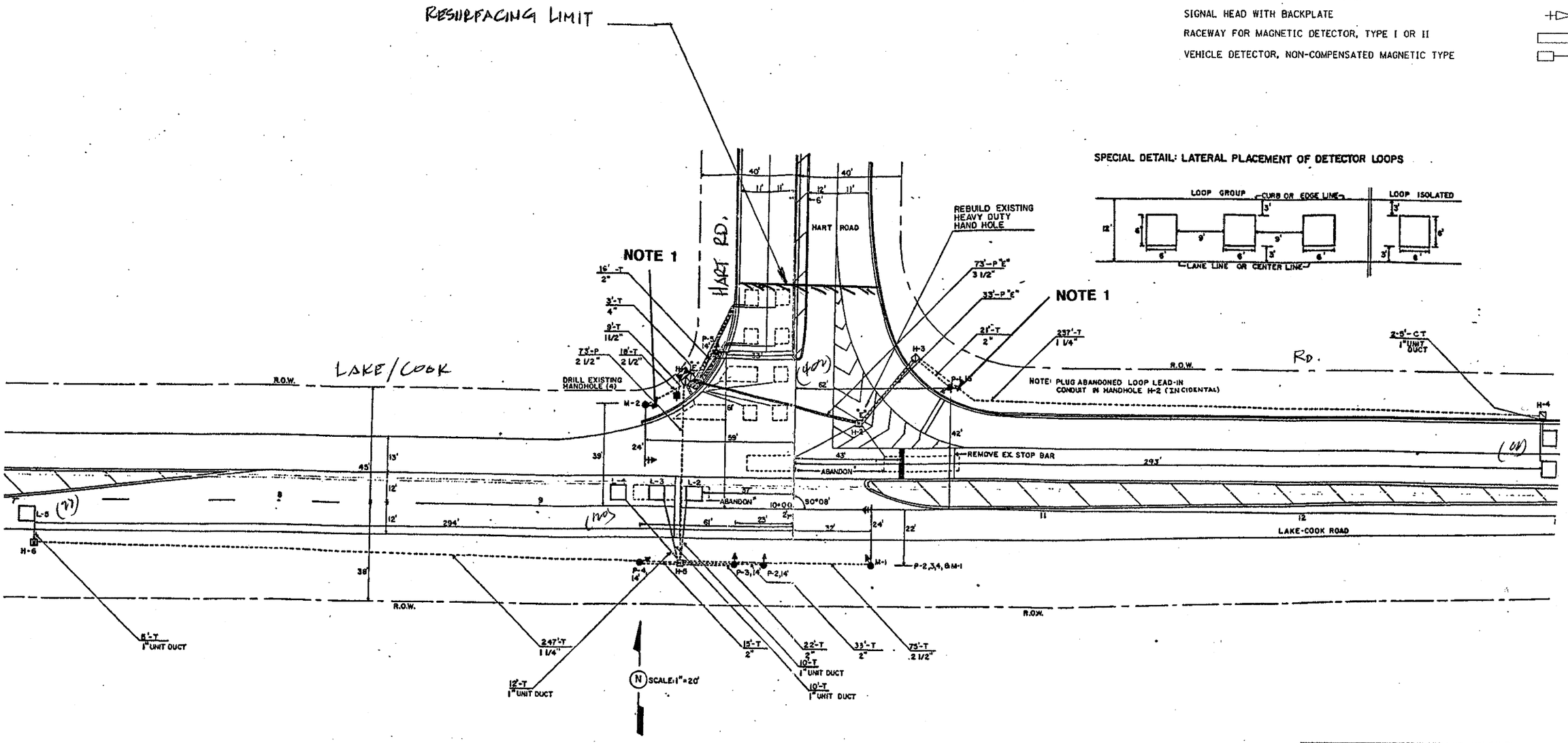
SCALE: 1"=50' | SHEET NO. 13 OF 30 SHEETS | STA.230+00 TO STA.260+00

PLAN AND PAVEMENT MARKING DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	13
		CONTRACT NO.60H02		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

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



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

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

CODE	QUANTITY	UNIT	ITEM
86600600	615	FOOT	DETECTOR LOOP, REPLACEMENT

FILE NAME = c:\pw_work\PWIDOT\KANTHAPHIXAYBC\d0112641\traffic_legend_v7.dgn	USER NAME = kanthaphixaybc	DESIGNED - BCK	REVISED -
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	PLOT DATE = 4/3/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

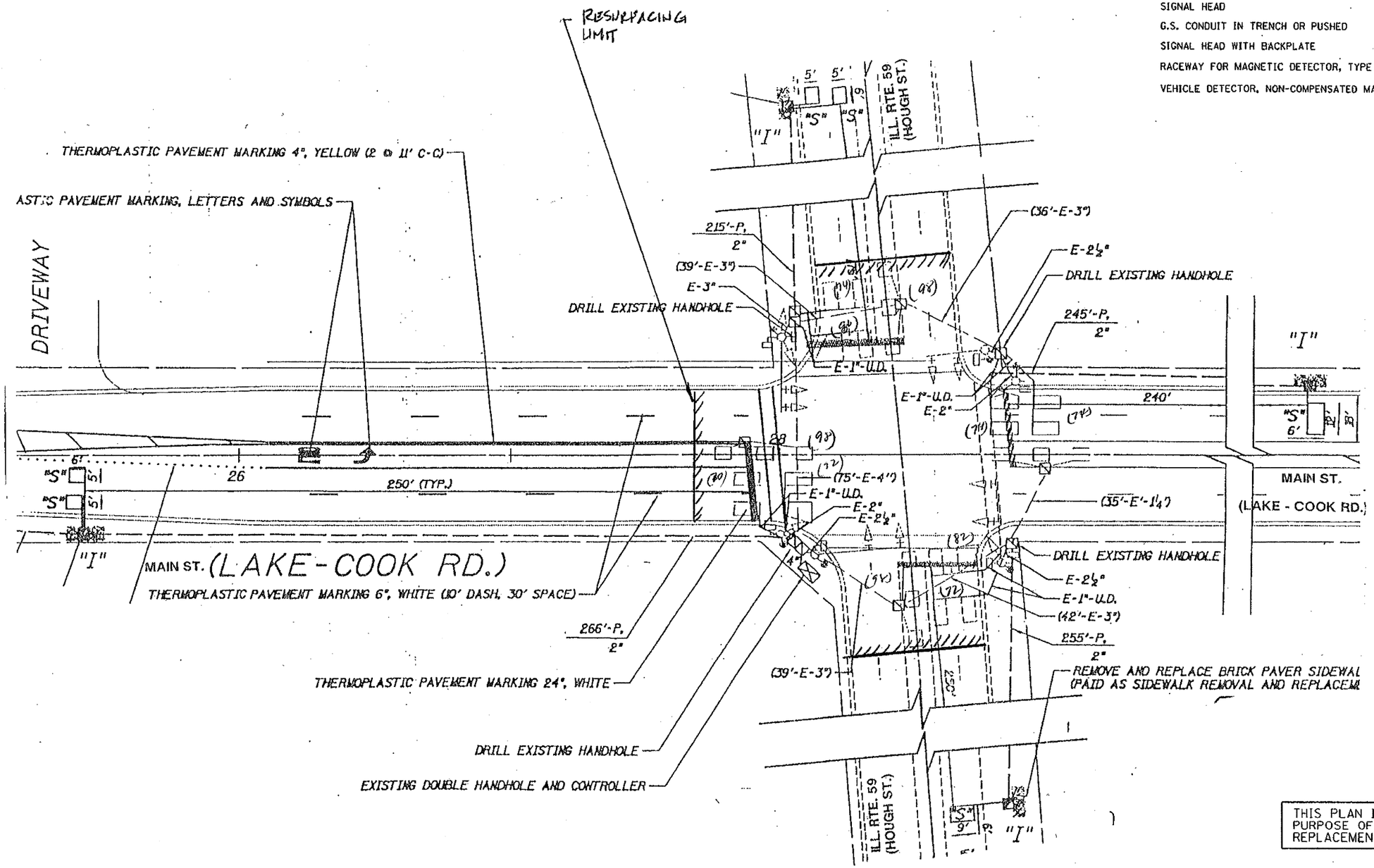
DISTRICT ONE - DETECTOR LOOP REPLACEMENT
LAKE / COOK ROAD @ HART ROAD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506RS-12	COOK	30	14
	60402	CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

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



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

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

CODE	QUANTITY	UNIT	ITEM
86600600	642	FOOT	DETECTOR LOOP, REPLACEMENT

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	PLOT DATE = 4/3/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

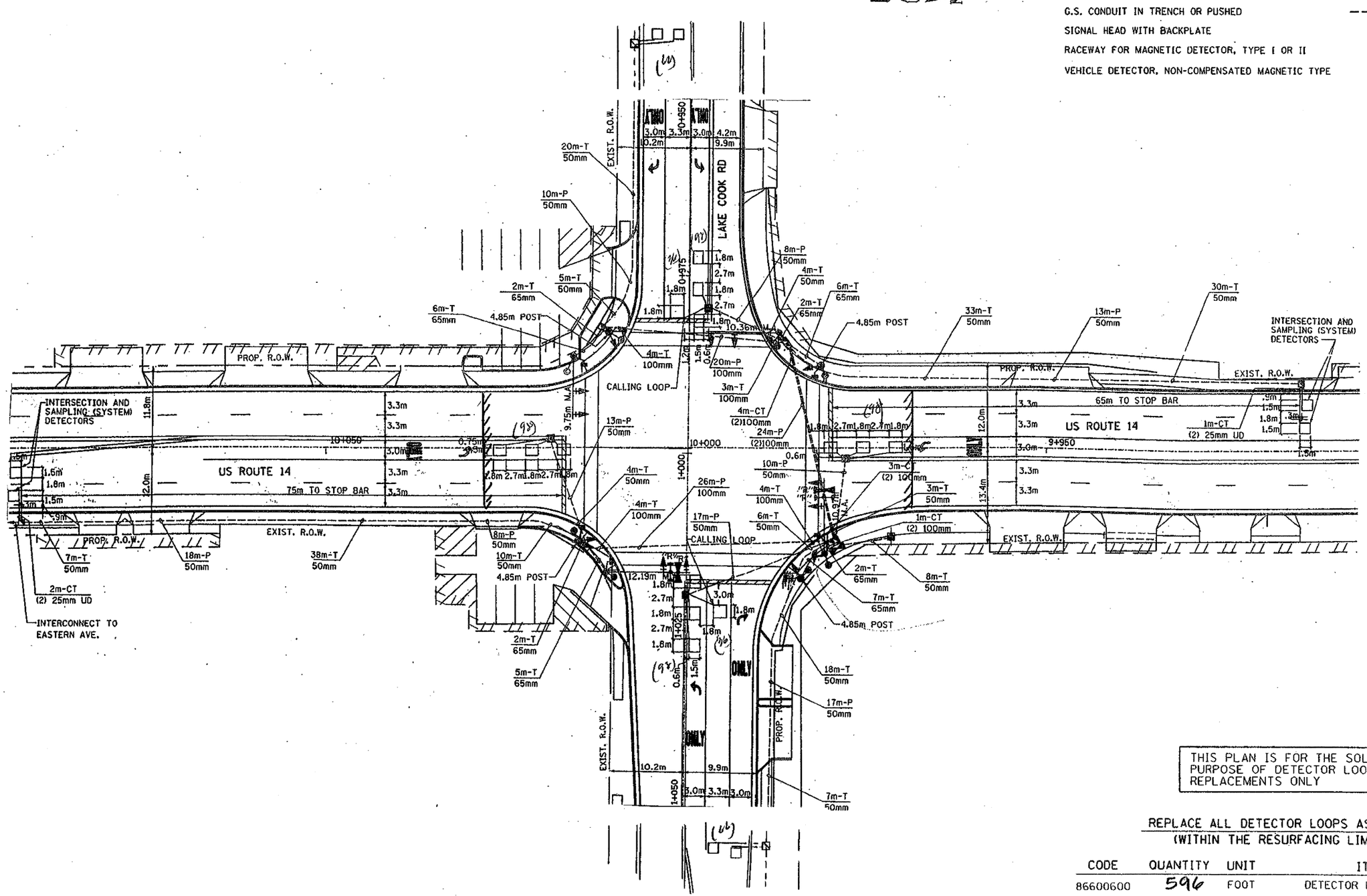
DISTRICT ONE - DETECTOR LOOP REPLACEMENT
LAKE / COOK @ ILL. RTE. 59 (HOUGH ST.)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	05062RS-12	COOK	30	15
	60H02	CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

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



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

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

CODE	QUANTITY	UNIT	ITEM
86600600	596	FOOT	DETECTOR LOOP, REPLACEMENT

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		DRAWN - BCK	REVISED -
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	PLOT DATE = 4/3/2009	DATE	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

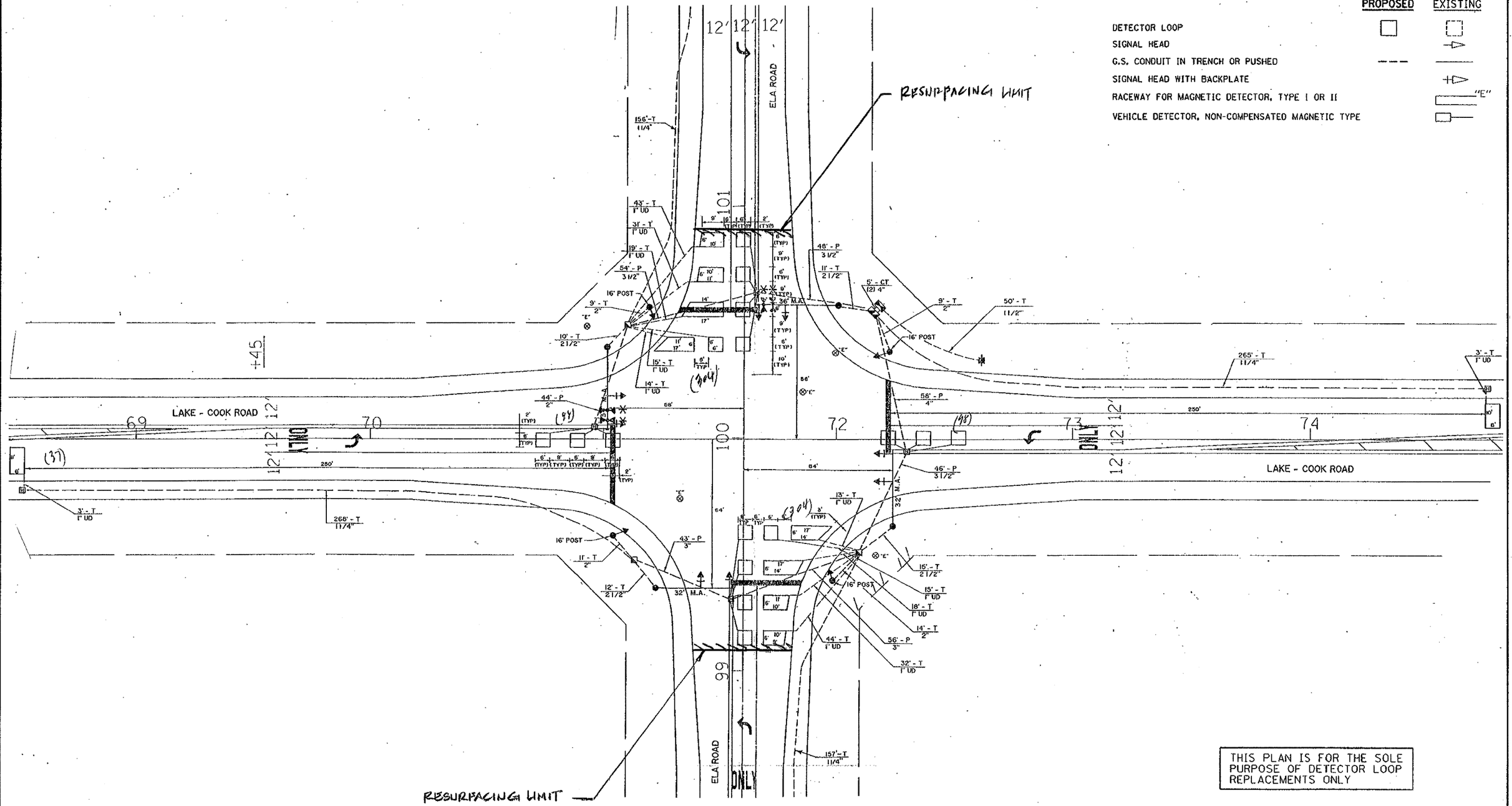
DISTRICT ONE - DETECTOR LOOP REPLACEMENT
LAKE/COOK RD. @ U.S. ROUTE 14

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506RS-12	COOK	30	16
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 60H02	

TRAFFIC SIGNAL LEGEND

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



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

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

CODE	QUANTITY	UNIT	ITEM
86600600	878	FOOT	DETECTOR LOOP, REPLACEMENT

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		DRAWN - BCK	REVISED -
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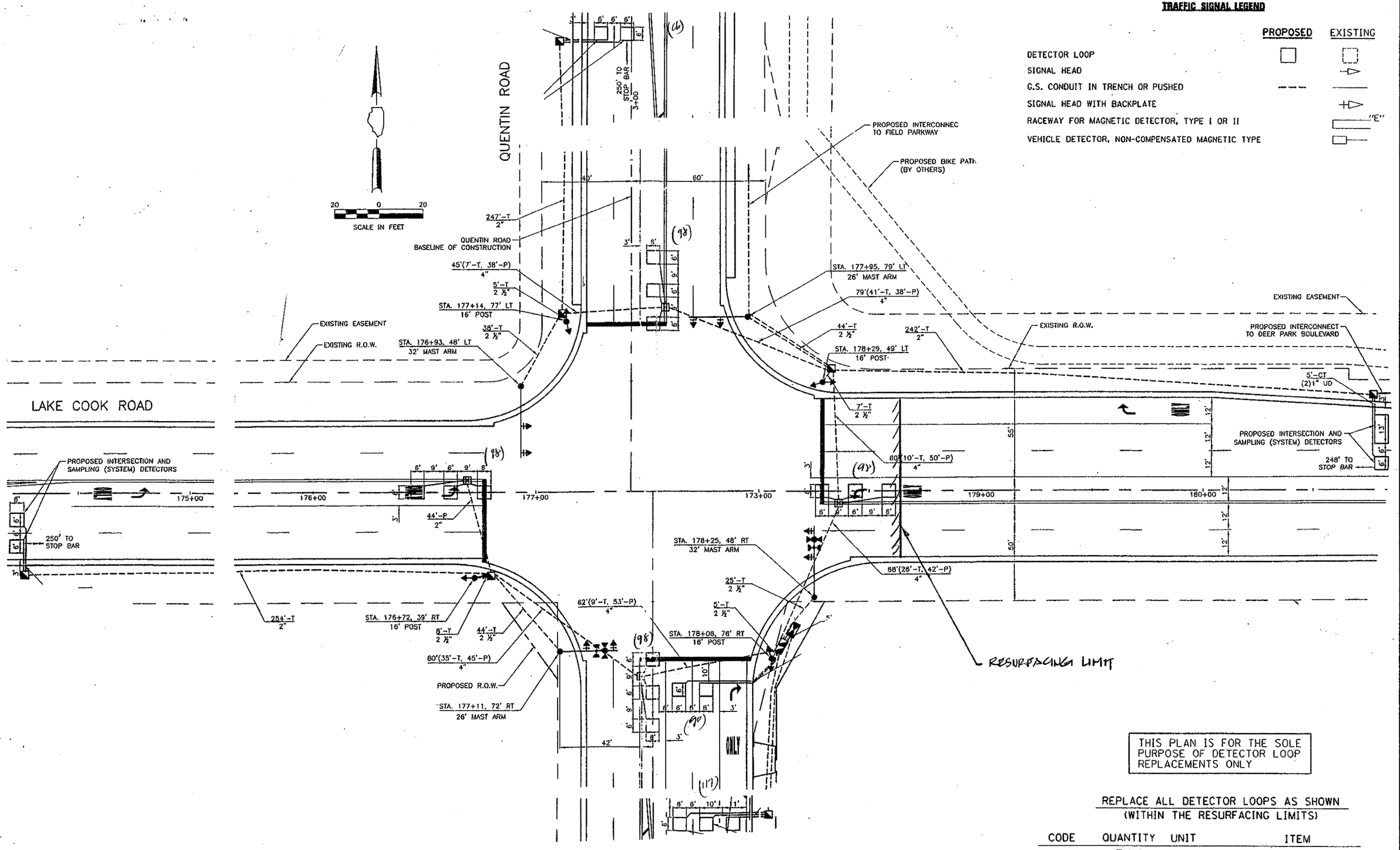
	PLOT DATE = 4/3/2009	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE - DETECTOR LOOP REPLACEMENT
LAKE / COOK ROAD @ ELA ROAD
SCALE: NONE | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506RS-12	COOK	30	17
	60H02	CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

CODE	QUANTITY	UNIT	ITEM
86600600	731	FOOT	DETECTOR LOOP, REPLACEMENT

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		DRAWN - BCK	REVISED -
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	PLOT DATE = 4/3/2009	DATE - -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE - DETECTOR LOOP REPLACEMENT
LAKE / COOK ROAD @ QUENTIN ROAD

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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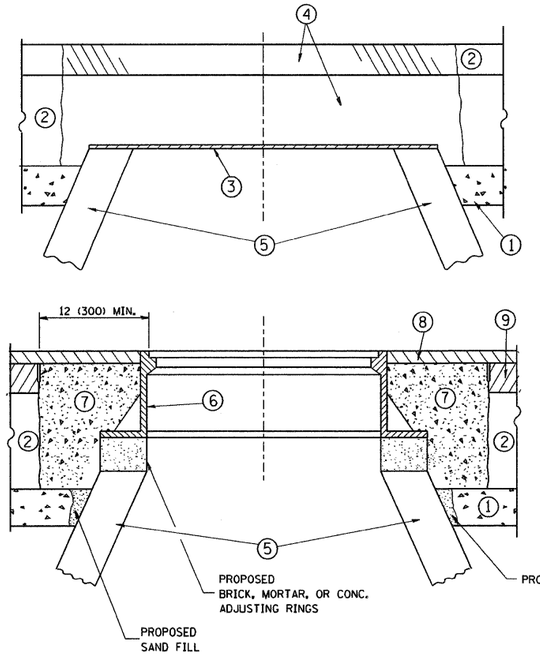
	60H02	CONTRACT NO.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.

B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.

C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

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

LEGEND

(1) SUB-BASE GRANULAR MATERIAL

(2) EXISTING PAVEMENT

(3) 36 (900) DIAMETER METAL PLATE

(4) PROPOSED CRUSHED STONE AND HMA SURFACE MIX

(5) EXISTING STRUCTURE

(6) FRAME AND LID (SEE NOTES)

(7) CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE

(8) PROPOSED HMA SURFACE COURSE

(9) PROPOSED HMA BINDER COURSE

NOTES:

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

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

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

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

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

LOCATION OF STRUCTURES:

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

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

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

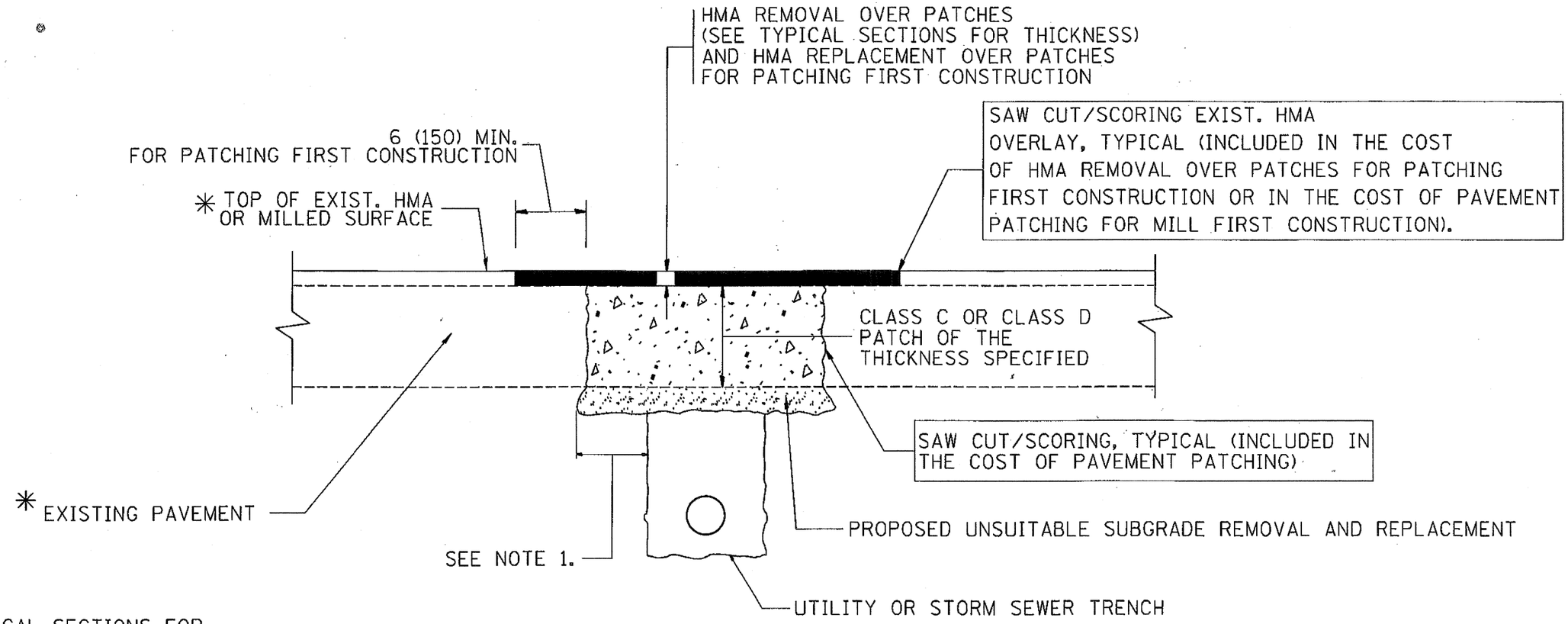
FILE NAME = K:\11225514\Lake-Cook Road\Cad\District 1 Details\Details.pdf	USER NAME = gaglionobt	DESIGNED - R. SHAH	REVISED - R. SHAH 03-10-95
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - R. WIEDEMAN 05-14-04
	PLOT DATE = 1/4/2008	DATE - 10-25-94	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	19
	BD600-03 (BD-8)	CONTRACT NO. 60H02		
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 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

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		DRAWN -	REVISED - R. BORO 01-01-07					1270	0506 RS-12	LAKE	30	20
	PLOT SCALE = 100.000 ' / IN.	CHECKED -	REVISED - R. BORO 09/04-07						BD400-04 (BD-22)	CONTRACT NO. 60H02		
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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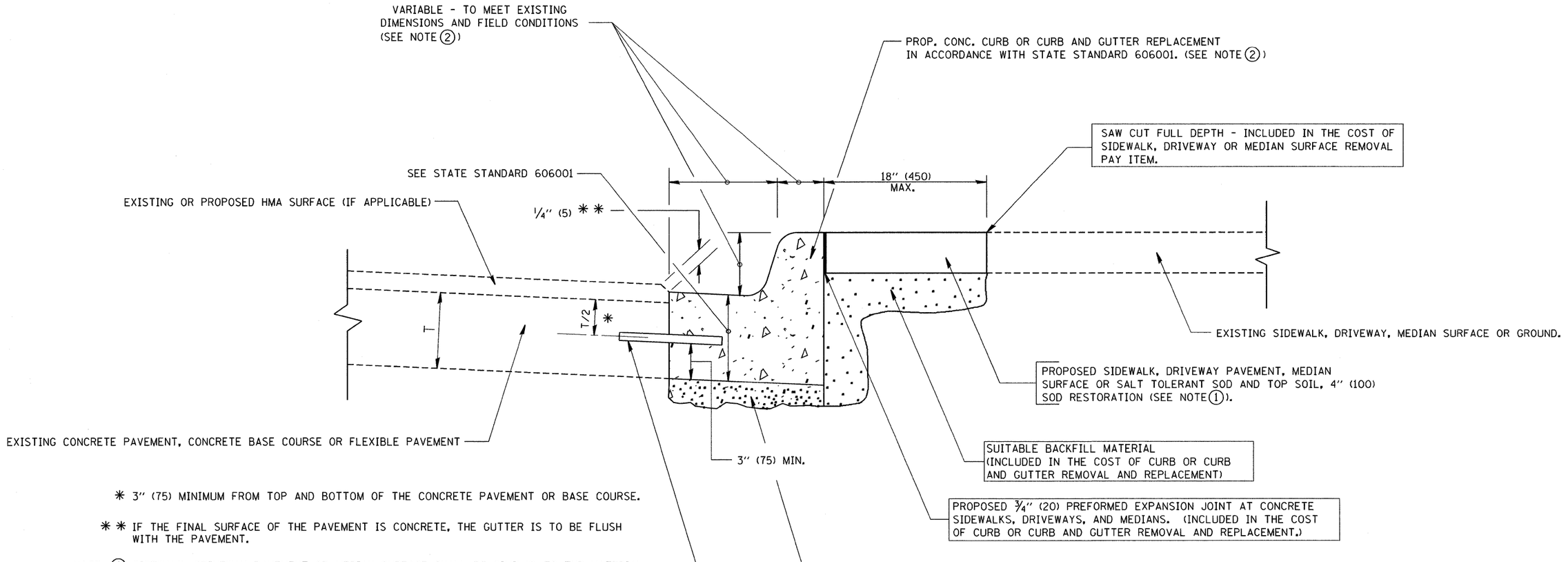

* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

* * 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.

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.

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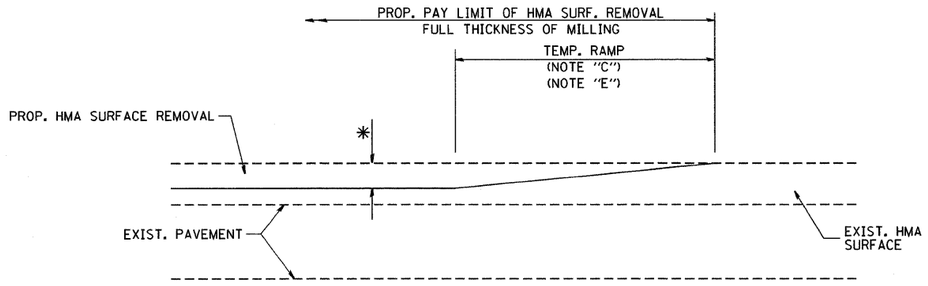
		DRAWN -	REVISED - A. ABBAS 03-21-97		
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01		
	PLOT DATE = 1/4/2008	DATE - 03-11-94	REVISED - R. BORO 01-01-07		SCALE: NONE / SHEET NO. 1 OF 1 SHEETS / STA. / TO STA.

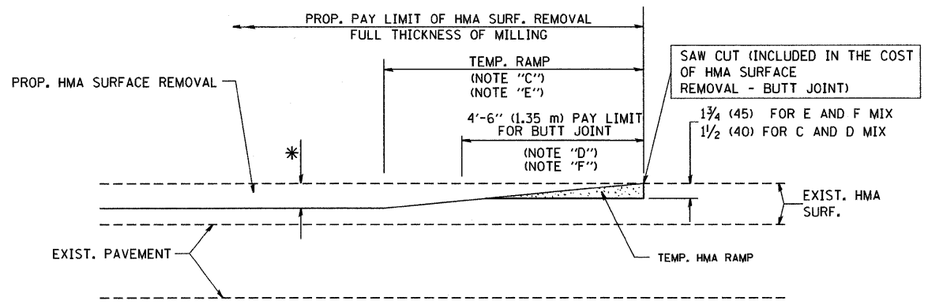
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	21
	BD600-06 (BD-24)	CONTRACT NO. 60H02		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

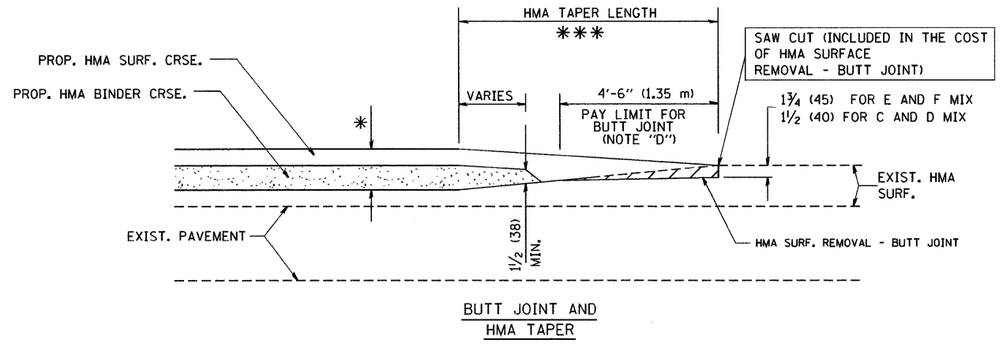


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

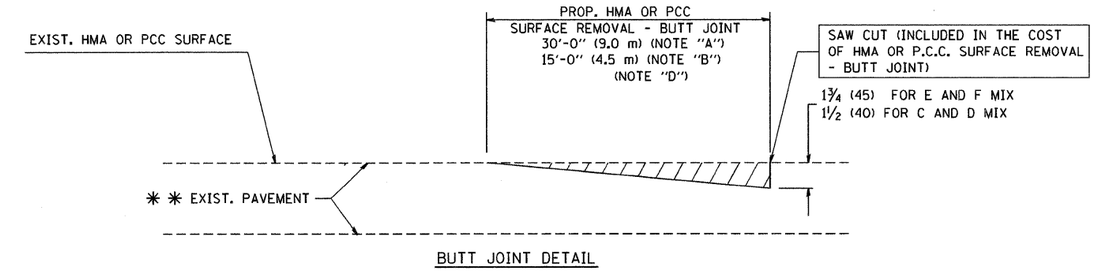
OPTION 2

TYPICAL TEMPORARY RAMP

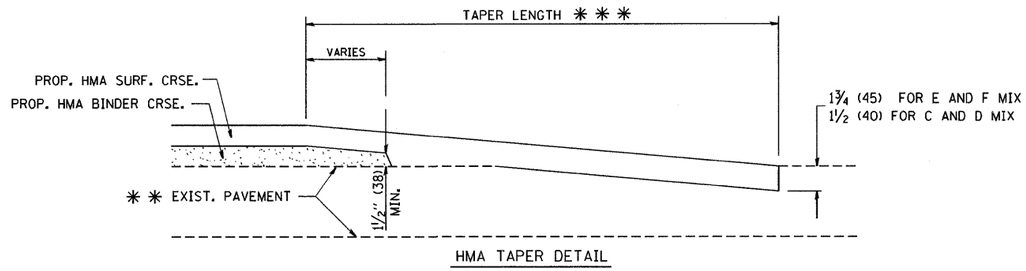


BUTT JOINT AND HMA TAPER

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.

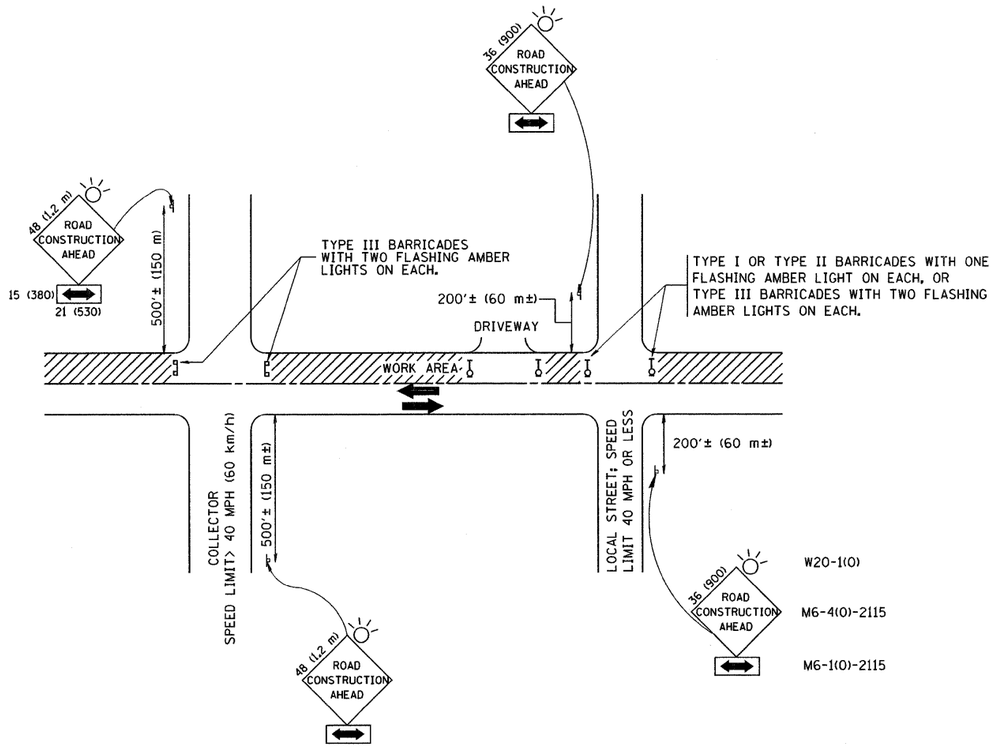
FILE NAME = K:\11225514\Lake-Cook Road\Cad\District 1 Details\Details.pdf	USER NAME = gagliarobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	22
	BD400-05 BD32	CONTRACT NO. 60H02		
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.

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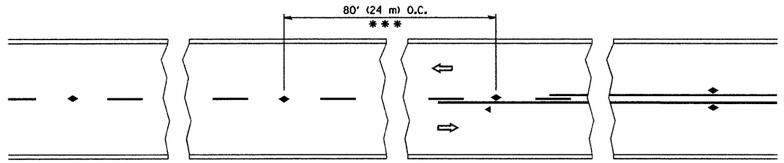
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

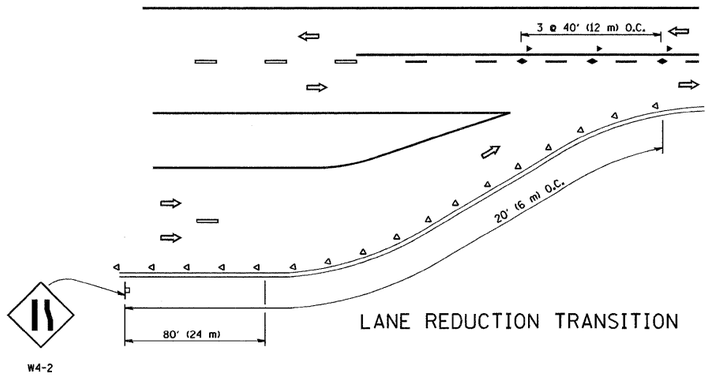
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	23
	TC-10	CONTRACT NO. **60H02**		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

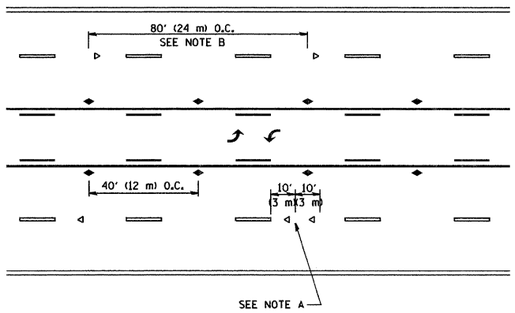


* * * REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

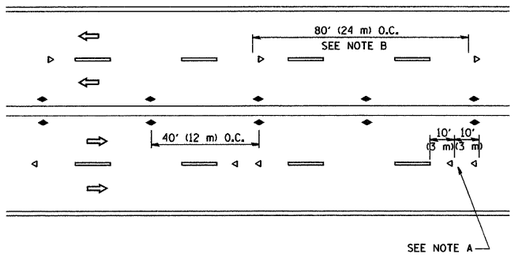
TWO-LANE/TWO-WAY



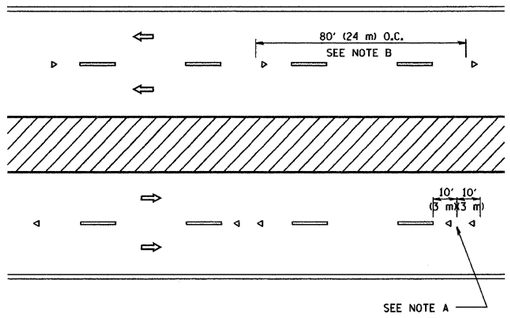
LANE REDUCTION TRANSITION



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

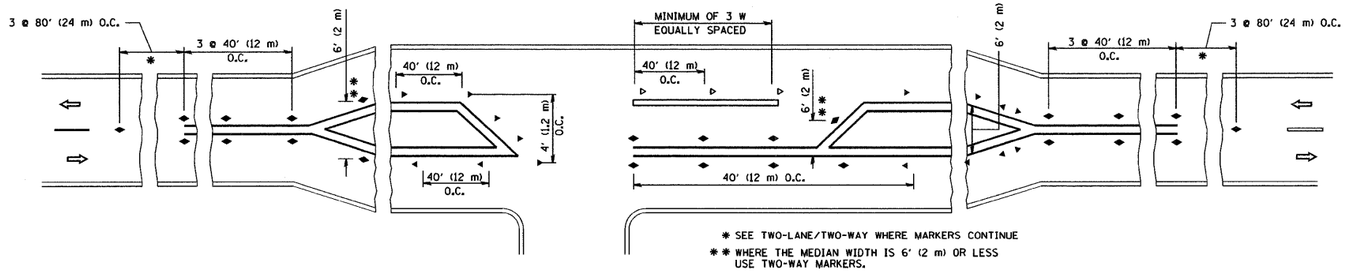
LANE MARKER NOTES

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.



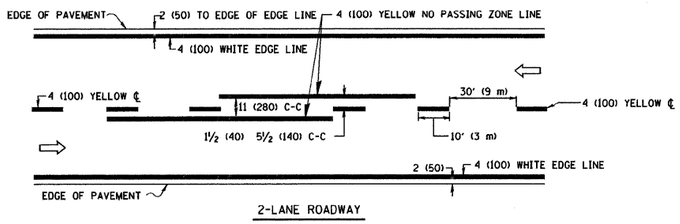
* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

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

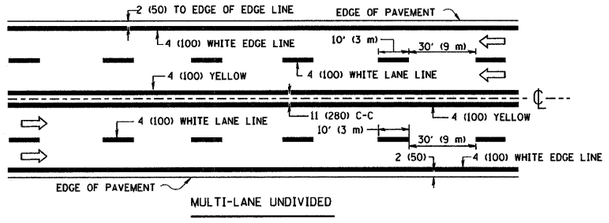
LEFT TURN

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

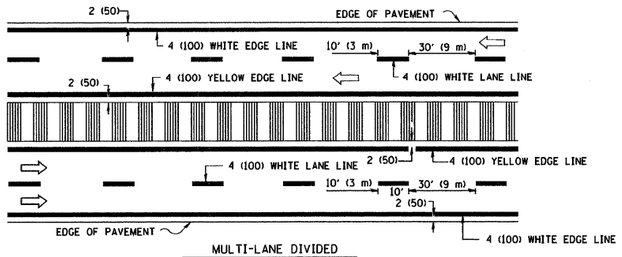
FILE NAME = K:\11225514\Lake-Cook Road\Cad\District 1 Details\Details.pdf	USER NAME = gaglianobt	DESIGNED -	REVISED - T. RAMMACHER 09-19-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - T. RAMMACHER 03-12-99					1270	0506 RS-12	LAKE	30	24
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 01-06-00						TC-11		CONTRACT NO. 60H02	
	PLOT DATE = 1/4/2008	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.		FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	



2-LANE ROADWAY



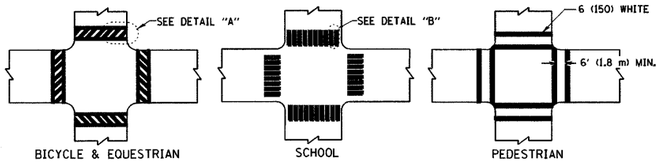
MULTI-LANE UNDIVIDED

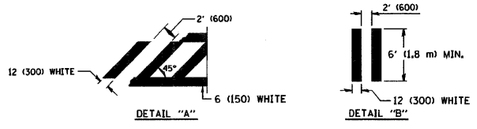


MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

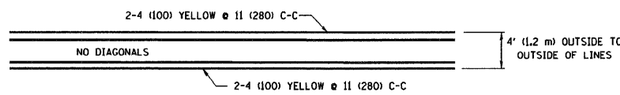
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

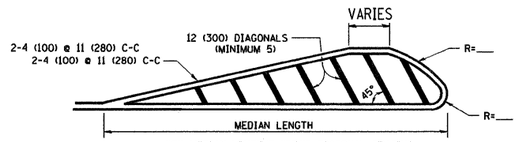




TYPICAL CROSSWALK MARKING



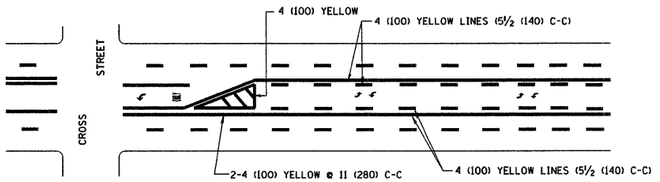
4' (1.2 m) WIDE MEDIANS ONLY



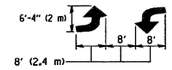
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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 (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

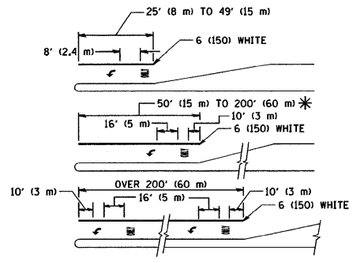


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

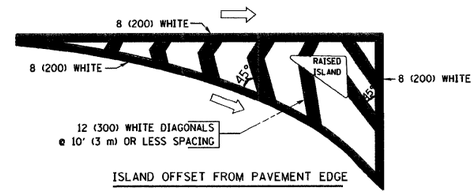


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) ONLY AREA = 20.8 SQ. FT. (1.9 m^2)

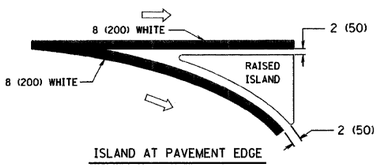
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

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 UNDIVEDED 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	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 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; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) 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.

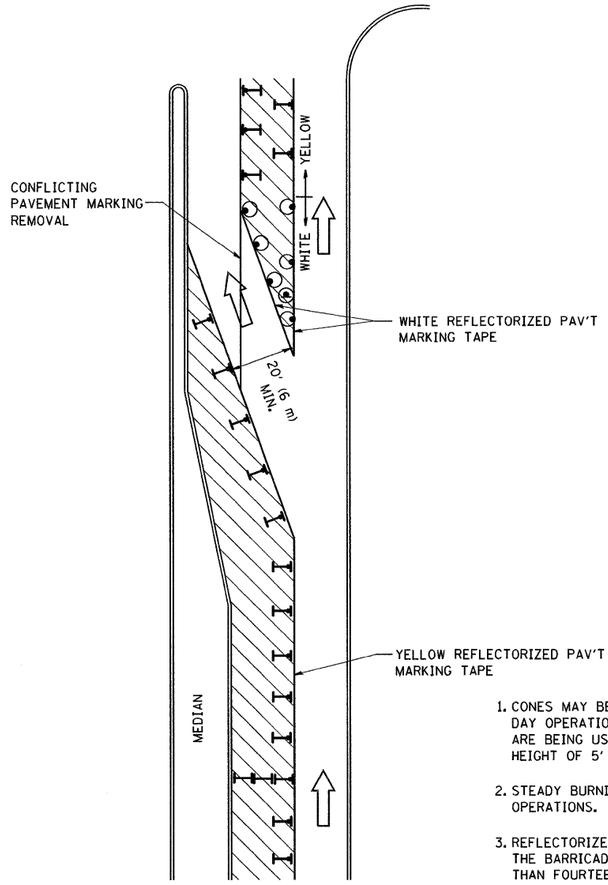
FILE NAME = K:\11225514\Lake-Cook Road\Cad\District 1 Details\Details.pdf	USER NAME = gaglianobt	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
		DRAWN -	REVISED -A. HOUSEH 10-09-96
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -A. HOUSEH 10-17-96
	PLOT DATE = 1/4/2008	DATE - 03-19-90	REVISED -T. RAMMACHER 01-06-00

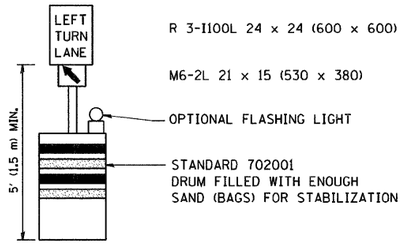
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	25
	TC-13	CONTRACT NO. 60H02		
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.

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

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

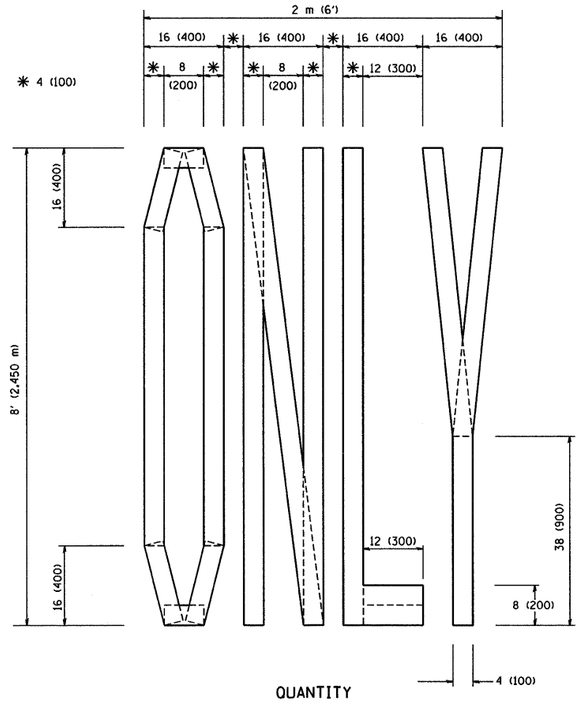
FILE NAME = K:\11225514\Lake-Cook Road\Cad\District 1 Details\Details.pdf	USER NAME = geglenobt	DESIGNED -	REVISED -T. RAMMACHER 09-08-94
		DRAWN -	REVISED - A. HOUSEH 11-07-95
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-12-96
	PLOT DATE = 1/4/2008	DATE -	REVISED -T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

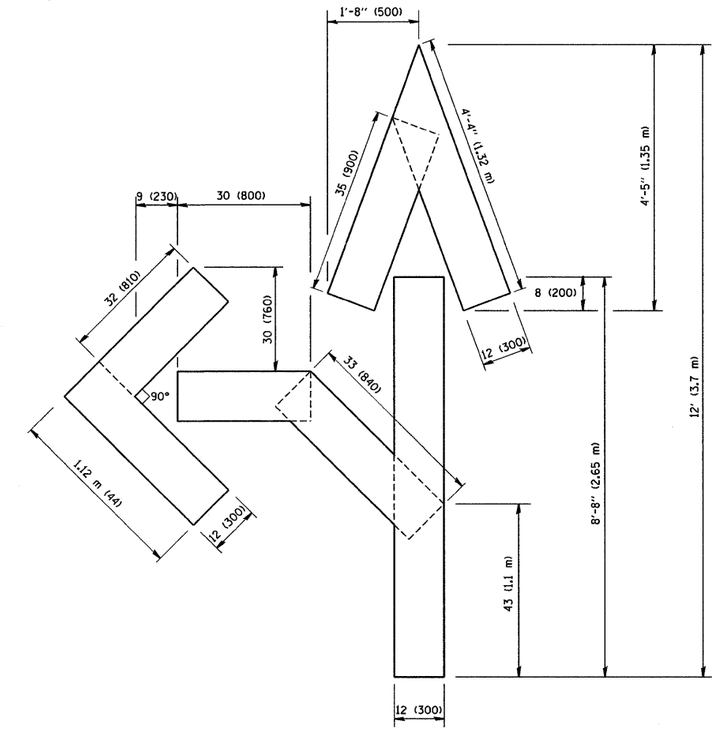
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

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

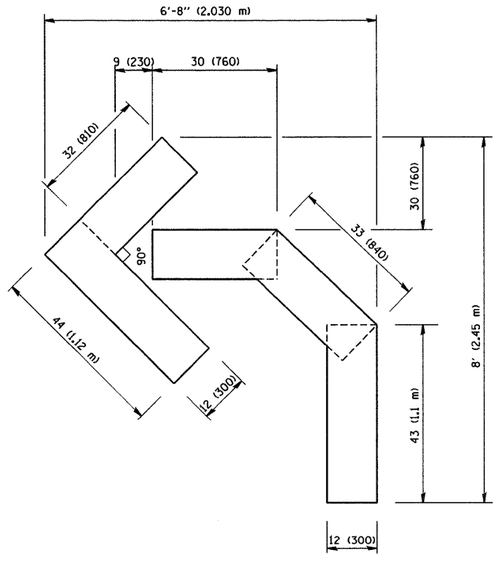
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	26
	TC-14	CONTRACT NO. 60H02		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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.

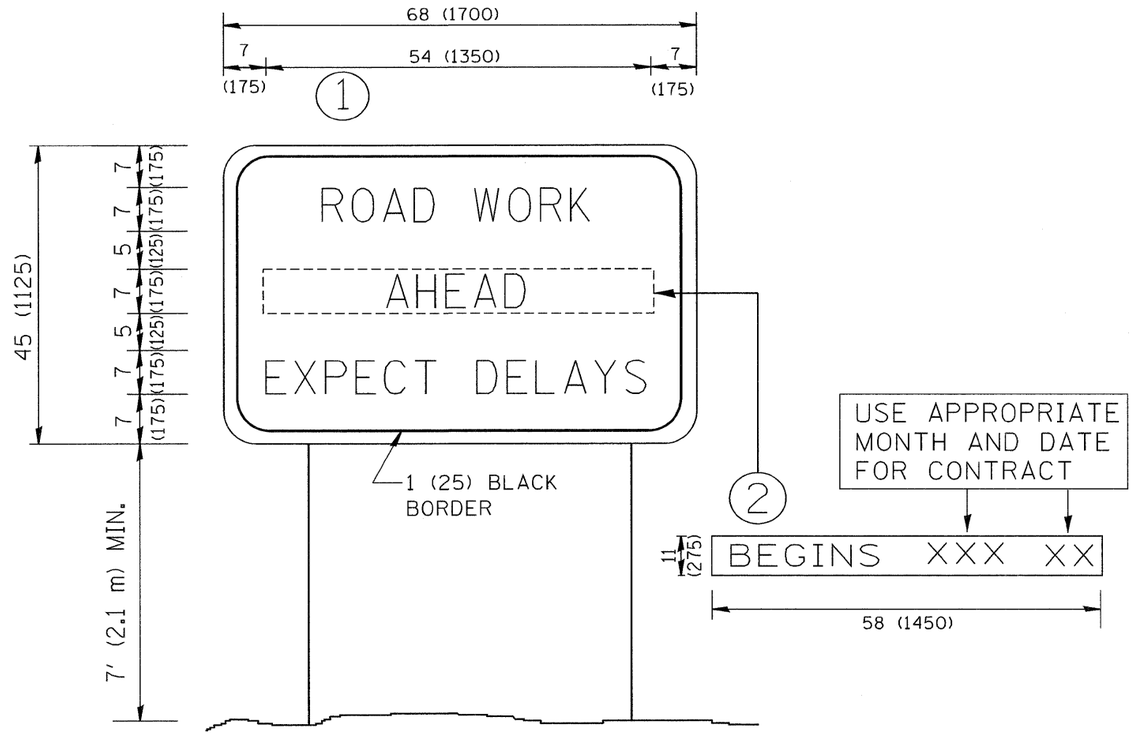
FILE NAME = K:\11225514\Lake-Cook Road\Cad\District 1 Details\Details.pdf	USER NAME = geglienobt	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	27
	TC-16	CONTRACT NO. 60H02		
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.

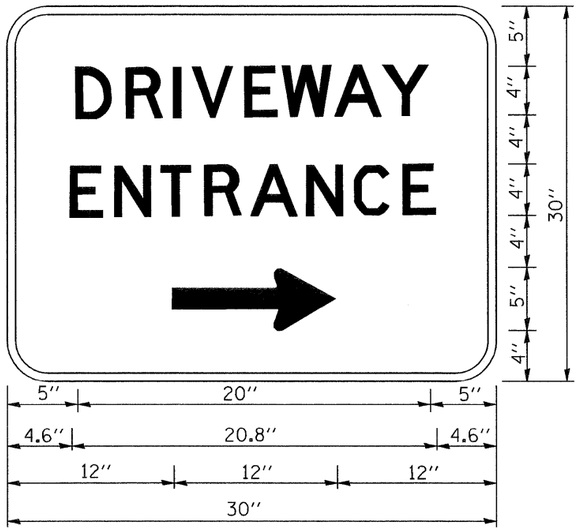
FILE NAME = K:\11225514\Lake-Cook Road\Cad\District 1 Details\Details.pdf	USER NAME = geglienobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	28
	TC-22	CONTRACT NO. 60H02		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



3.0'' RADIUS, 0.5'' BORDER, WHITE ON GREEN; REFLECTORIZED
''DRIVEWAY'' D; ''ENTRANCE'' D; STANDARD ARROW CUSTOM 12.0'' x 5.0''

NOTES:

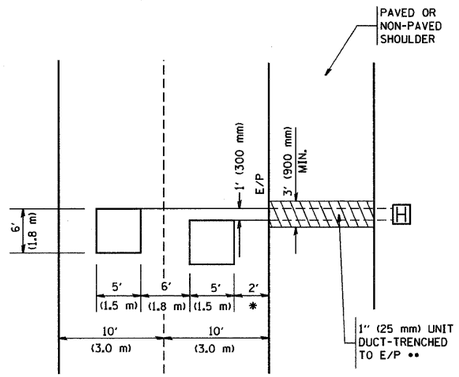
1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM ''TEMPORARY INFORMATION SIGNING''.

FILE NAME = K:\11225514\Lake-Cook Road\Cad\District 1 Details\Details.pdf	USER NAME = gaglienobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY ENTRANCE SIGNING
		DRAWN -	REVISED -		
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.
	PLOT DATE = 1/4/2008	DATE -	REVISED -		

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	29
	TC-26	CONTRACT NO. 60H02		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

LOOPS NEXT TO SHOULDERS

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

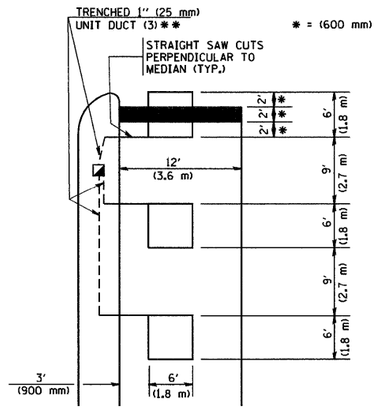


* = (600 mm)

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

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

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

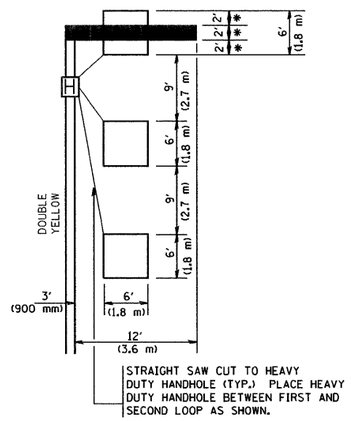


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

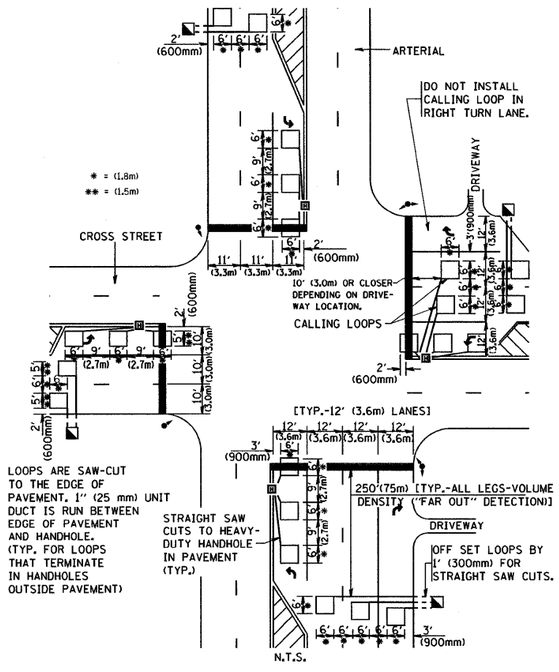
LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)

* = (600 mm)



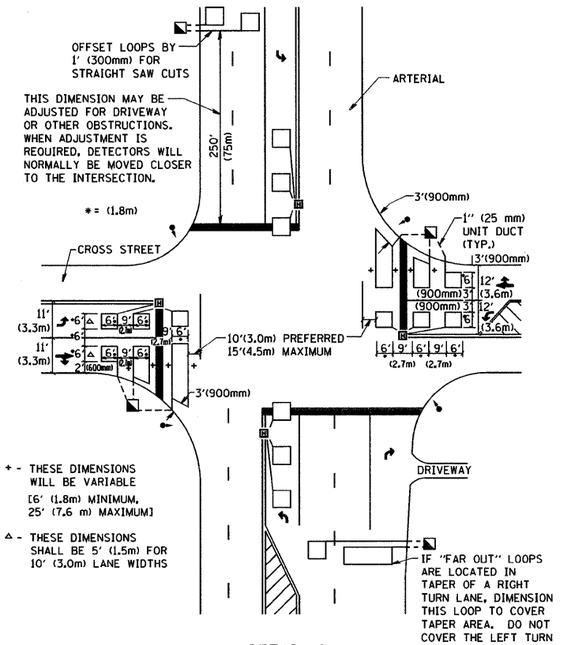
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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 SEPARATLY. 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.

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	PLOT DATE = 1/4/2008	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 – DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1270	0506 RS-12	LAKE	30	30
	TS-07	CONTRACT NO. 60H02		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		