COUNTY TOTAL SHEE

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

4 4

PREPARATION

PROPOSED HIGHWAY PLANS

F.A.U. RTE. 3561: WILLOW ROAD I-94 (EDENS EXPRESSWAY) TO HIBBARD RD.

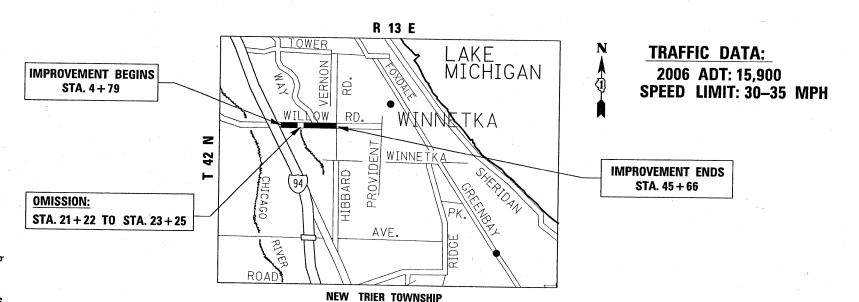
SECTION: 2223 RS-2

RESURFACING (MAINTENANCE)

COOK COUNTY

C - 91 - 071 - 01

IMPROVEMENT LOCATED IN THE VILLAGES OF NORTHFIELD AND WINNETKA



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

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

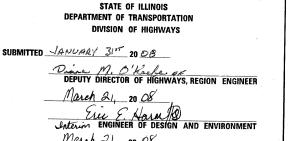
CONTRACT NO. 62129

GROSS LENGTH OF IMPROVEMENT = 4,087 FEET = 0.77 MILES

NET LENGTH OF IMPROVEMENT = 3,884 FEET = 0.74 MILES

D-91-071-01





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F.A.U. RTE.	SECTION	1 C	OUNTY	TOTAL SHEETS	SHEET NO.
3561	2223 RS-	2	соок	21	2
STA.		TO S	TA.		
FED. ROAD	DIST. NO. 1	ILLINOIS	HIGHWAY	PROJECT	

INDEX OF SHEETS

SHEET NO.	DESCRIPTION	
1	COVER SHEET	
2	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES	
3	SUMMARY OF QUANTITIES	
4.	TYPICAL SECTIONS	
5-7	ROADWAY AND PAVEMENT MARKING PLANS	
8-9	DETECTOR LOOP REPLACEMENT PLANS	
10	DETAILS FOR FRAMES AND LIDS ADJUSTMENTS WITH MILLING	
11	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	
12	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	
13	BUTT JOINT AND HMA TAPER DETAILS	
14	TRAFFIC CONTROL AND PROTECTION FOR SIDEROADS, INTERSECTIONS, AND DRIVEWAYS	
15	TYPICAL APPLICATION FOR RAISED REFLECTIVE PAVEMENT MARKERS	
16	DISTRICT ONE TYPICAL PAVEMENT MARKINGS	
17	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS	
18	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING	
19	ARTERIAL ROAD INFORMATION SIGN	
20	DISTRICT ONE DETECTOR LOOP INSTALLATION DETAIL FOR ROADWAY RESURFACING	;
21 21	BENCHING DETAIL FOR EMBANKMENT WIDENING	

STATE STANDARDS

000001- <i>05</i>	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-04	TEMPORARY EROSION CONTROL SYSTEM
442201 -<i>0</i>3	CLASS C AND D PATCHES
604001 -02	FRAME AND LIDS, TYPE 1
604086 <i>-01</i>	FRAME AND GRATES, TYPE 23
606001-03	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701101- <i>01</i>	OFF-RD OPERATION, MULTILANE, LESS THAN 4.5 M (15') FROM PAVEMENT EDGE
701301 -02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306 -0 1	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATION DAY ONLY FOR SPEEDS ≥ 45 MPH
701326 -02	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701606 -05	URBAN LANE CLOSURE, MULTILANE 2W WITH MOUNTABLE MEDIAN
701701-05	URBAN LANE CLOSURE, MULTILANE INTERSECTION

TRAFFIC CONTROL DEVICES

701901

GENERAL NOTES

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

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF NORTHFIELD.

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

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 40 MM (1½INCHES) WHERE THE SPEED LIMIT IS 80 KM/H (45 MPH) OR LESS AND 25 MM (1 INCH) WHERE THE SPEED LIMIT IS GREATER THAN 80 KM/H (45 MPH). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 75 MM (3 INCHES) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

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

THE RESIDENT ENGINEER SHALL CONTACT MR. WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER AT (773) 685-8386 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE ARTERIAL TRAFFIC CONTROL AREA SUPERVISOR A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK.

INDEX OF SHEETS, STANDARDS,
AND GENERAL NOTES

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: VERT.
HORIZ.
DATE 1/25/2008

DRAWN BY CHECKED BY

CONTRACT NO. 62129

F.A.U. RTE.	SECTION	COUNT	Y	TOTAL SHEETS	SHEET NO.
3561	2223 RS-2	COOK		21	3
FED. RO	DAD DIST, NO. 1	ILLINOIS	HIG	HWAY PRO	JECT

	SUMMARY OF QUANTITIES					CONSTRUCT	TION TYPE	CODE	· · · · · · · · · · · · · · · · · · ·	_	SUMMARY OF QUANTITIES					CONSTRUC	TION TYPE	CODE	
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	URBAN IOOO 100% STATE					-	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	URBAN IOOO 100% STATE				i i	
0200100	EARTH EXCAVATION	CU YD	34	34					·	60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	3	3					
1101685	TOPSOIL FURNISH AND PLACE, 24"	SQ YD	275	275						60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	18	18					
5000400	NITROGEN FERTILIZER NUTRIENT	POUND	4	4						60404940	FRAMES AND GRATES, TYPE 23	EACH	18	18					
5000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	4	4						60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	2	2					
5000600	POTASSIUM FERTILIZER NUTRIENT	POUND	4	4						60603800	COMBINATION CONCRETE CURB AND GUTTER,	FOOT	150	150					
5200110	SODDING, SALT TOLERANT	SQ YD	275	275						67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	2					
5200200	SUPPLEMENTAL WATERING	UNIT	3	3						67100100	MOBILIZATION	L SUM	1	1					
8000400	PERIMETER EROSION BARRIER	FOOT	125	125						70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1					
8000510	INLET FILTERS	EACH	1	1						70100500	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	1			-		
1101400	SUB-BASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	62	62							STANDARD 701326								
5400400	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 9"	SQ YD	62	62						70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1	. (
0600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	9	9				,		70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1					
0600300	AGGREGATE (PRIME COAT)	TON	44	44						70300100	SHORT-TERM PAVEMENT MARKING	FOOT	2445	2445					
0600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	7	7					.	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	8960	8960					
0600895	CONSTRUCTING TEST STRIP	EACH	1	1						70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	520	520					
0600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	145	145						70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	220	220					
0601005	HOT-MIX ASPHALT REPLACEMENT OVER	TON	175	175						70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	815	815					
0603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", NTO	TON	1880	1880						* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	8960	8960					
2001300	PROTECTIVE COAT	SQ YD	130	130						* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	520	520					
2400200	PORTLAND CEMENT CONCRETE SIDEWALK 5	SQ FT	100	100						* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	220	220					
4000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2	SQ YD	21683	21683						* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	180	180					
1000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	85	85	-					* 78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	180	180				:	
1000600	SIDEWALK REMOVAL	SQ FT	100	100						★ 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1119	1119					
4001700	COMBINATION CONCRETE CURB AND GUTTER	FOOT	600	600							TEMPORARY INFORMATION SIGNING			128.5					
A contract	REMOVAL AND REPLACEMENT									X0322256	· · · · · · · · · · · · · · · · · · ·	SQ FT	128.5						
4002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3"	SQ YD	1400	1400						X0325560	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER	EACH	1	1					
4201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	1380	1380	·					X4067107	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	942	942					
0300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	1	1 1					1	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	18	18		:			

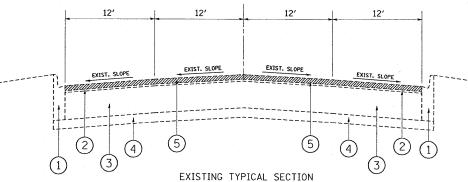
* SPECIALTY ITEM

REVISIONS
NAME DATE
W

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
WILLOW ROAD FROM 1-94 TO HIBBARD ROAD

PLOT DATE: 1/25/2008

F.A.U. RTE.	SECTION	CC	UNTY	TOTAL SHEETS	SHEET NO.
3561	2223 RS-	2 (ООК	21	4
STA.		TO ST	Α.		
FED. ROAD DIST. NO. 1		ILLINOIS	HIGHW	AY PROJE	CT

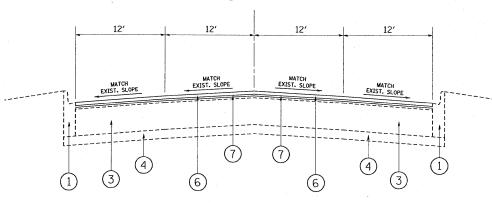


& WILLOW ROAD

STA. 4+79 TO 21+22 STA. 23+25 TO 45+66

OMISSION: STA 21+22 TO 23+25

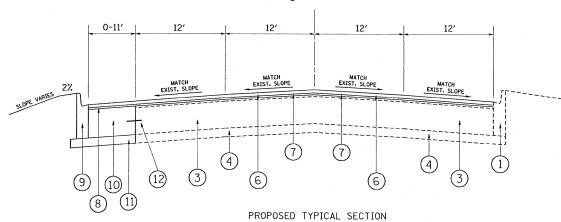
¢ WILLOW ROAD



PROPOSED TYPICAL SECTION STA. 4+79 TO 21+22 STA. 23+25 TO 27+94 STA. 29+30 TO 45+66

& WILLOW ROAD

STA. 27+94 TO 29+30



LEGEND:

- (1) EXIST. COMBINATION CONCRETE CURB AND GUTTER
- 2) EXIST. HMA SURFACE, 5 (±)
- 3 EXIST. P.C.C. PAVEMENT, 9" (±)
- 4 EXIST. STABILIZED SUB-BASE
- (5) PROP. HMA SURFACE REMOVAL, 21/4"
- 6) PROP. HMA SURFACE COURSE, MIX "D", N70, 11/2"
- (7) PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- 8 PROP. POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"
- (9) PROP. COMBINATION CONC. C & G, TYPE B-6.12
- (10) PROP. PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 9"
- (11) PROP. SUBBASE GRANULAR MATERIAL, TYPE B 6"
- (12) PROP. NO. 19 (#6) EPOXY COATED DEFORMED BARS @ 24" CENTERS, 24"

TIE BAR SHOULD BE INCIDENTAL TO THE PCC BASE COURSE WIDENING

HOT-MIX ASPHALT MIXT	JRE REQUIREMEN	NTS
MIXTURE USES	AC / PG	DESIGN AIR VOIDS
HMA SURFACE COURSE, MIX "D", N70 (IL-9.5 mm)	PG 64-22	4% AT 70 GYR.
POLYMERIZED LEVELING BINDER (MM), IL-4.75, N50	SBS/SBR PG 76-28	4% AT 50 GYR.
HMA REPLACEMENT OVER PATCHES (BINDER, IL-19.0 mm) (SEE NOTE BELOW)	* PG 64-22/58-22	4% AT 70 GYR.
CLASS D PATCHES, (BINDER IL-19.0 mm) (SEE NOTE BELOW)	* PG 64-22/58-22	4% AT 70 GYR.

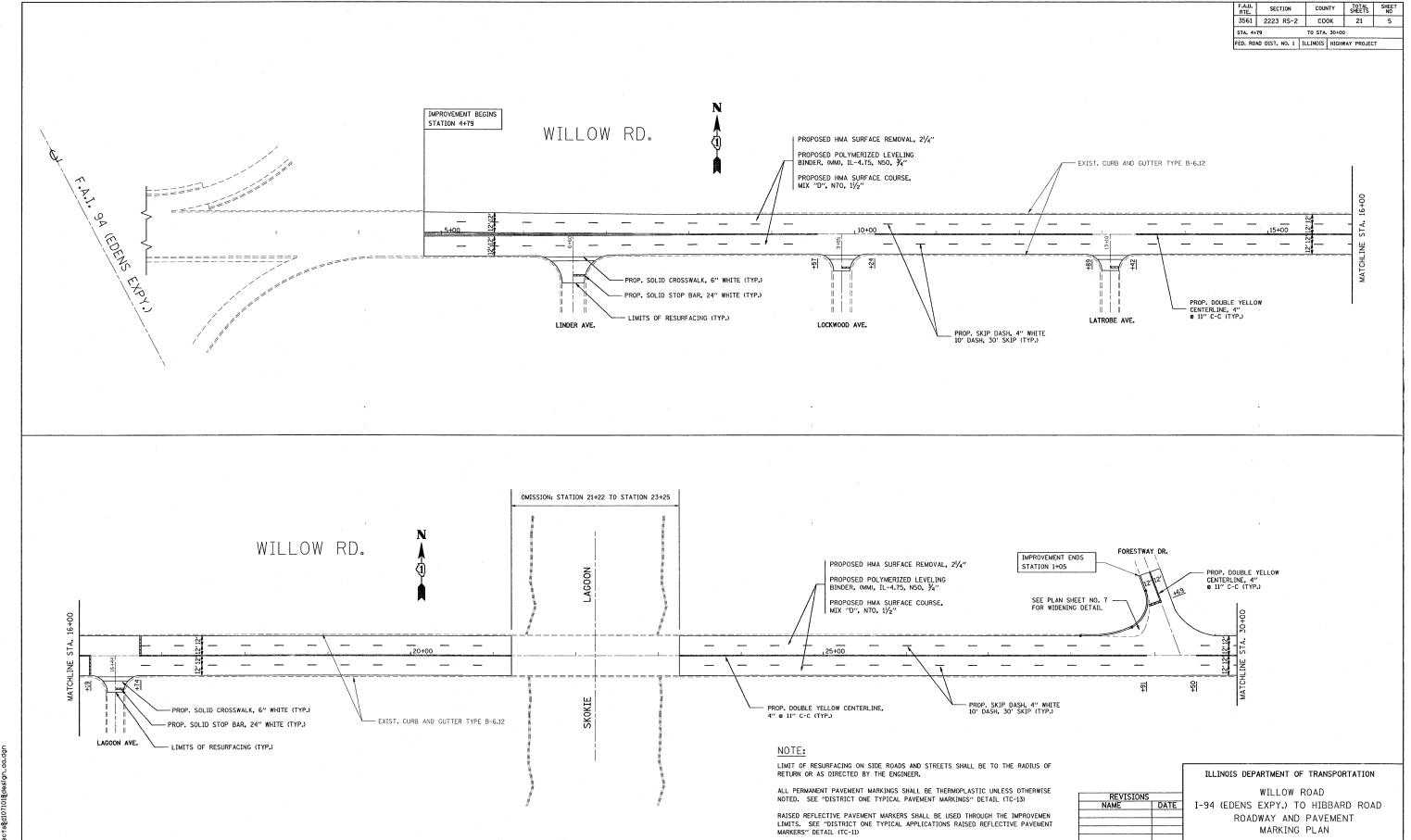
NOTES:

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE MIXTURES IS 112 LBS/SY/IN * WHEN RAP EXCEEDS 20%, THE NEW MIX IN ASPHALT BINDER SHALL BE PG 58-22

REVISIONS	TILINOIS DEPARTM	ILLINOIS DEPARTMENT OF TRANSPORTATION				
NAME DATE	TELINOIS DEL ANTIM	ILLINOIS DEFAITMENT OF TRANSFORTATION				
	→ WILL	OW ROAD				
	I-94 (EDENS EXP	Y.) TO HIBBARD ROAD				
	PROPOSED	AND EXISTING				
	TYPICA	L SECTIONS				
	SCALE: VERT.	DRAWN BY:				
	DATE 1/25/2008	CHECKED BY				

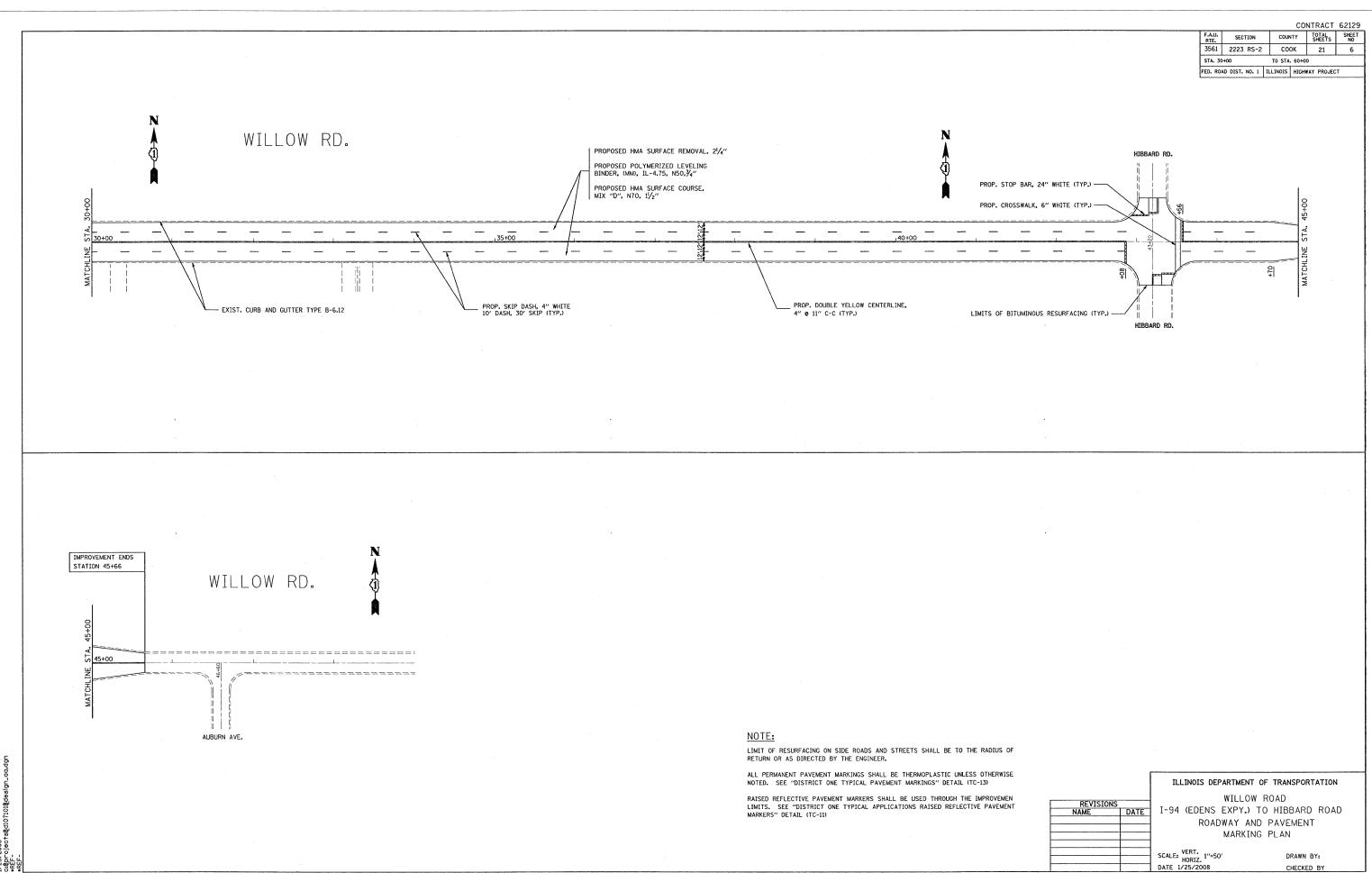
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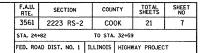
CONTRACT NO.: 62129 COUNTY TOTAL SHEET NO соок 21

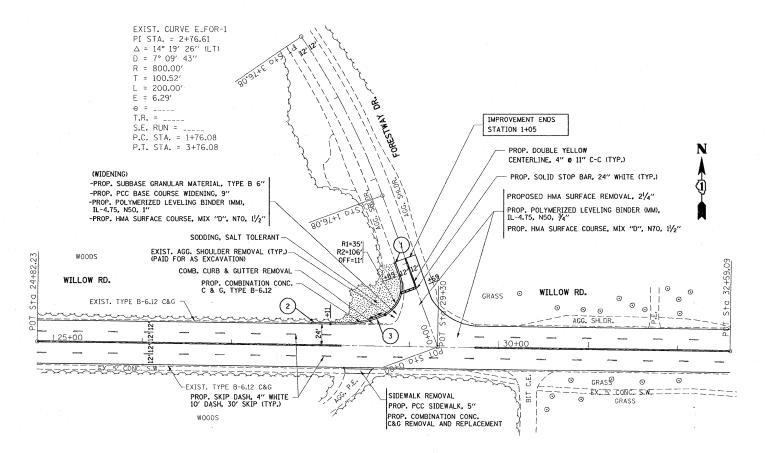


SCALE: VERT. 1"=50' HORIZ. 1"25/2008

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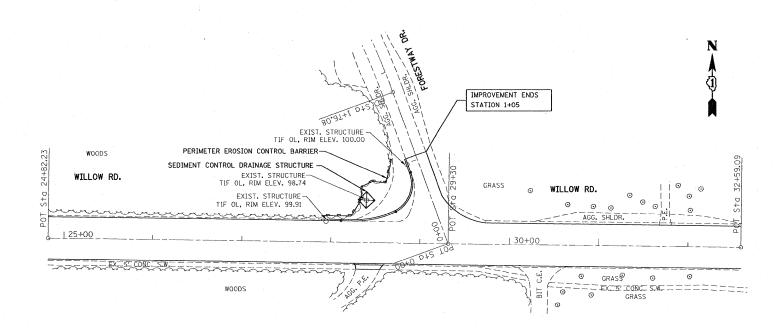




-	EXIST.	AND PROF	P. GRADES
	STATION	OFFSET	ELEVATION
1*	0+98.5	12′	MATCH EXIST RIM ELEV.
2	27+94	24'	MATCH EXIST RIM ELEV.
3	28+63	31′	100.20 PROP. HIGH POINT @ E.O.P.

* TEMPORARY BENCH MARK

ROADWAY AND PAVEMENT MARKING PLAN



DRAINAGE AND EROSION CONTROL PLAN

WILLOW ROAD

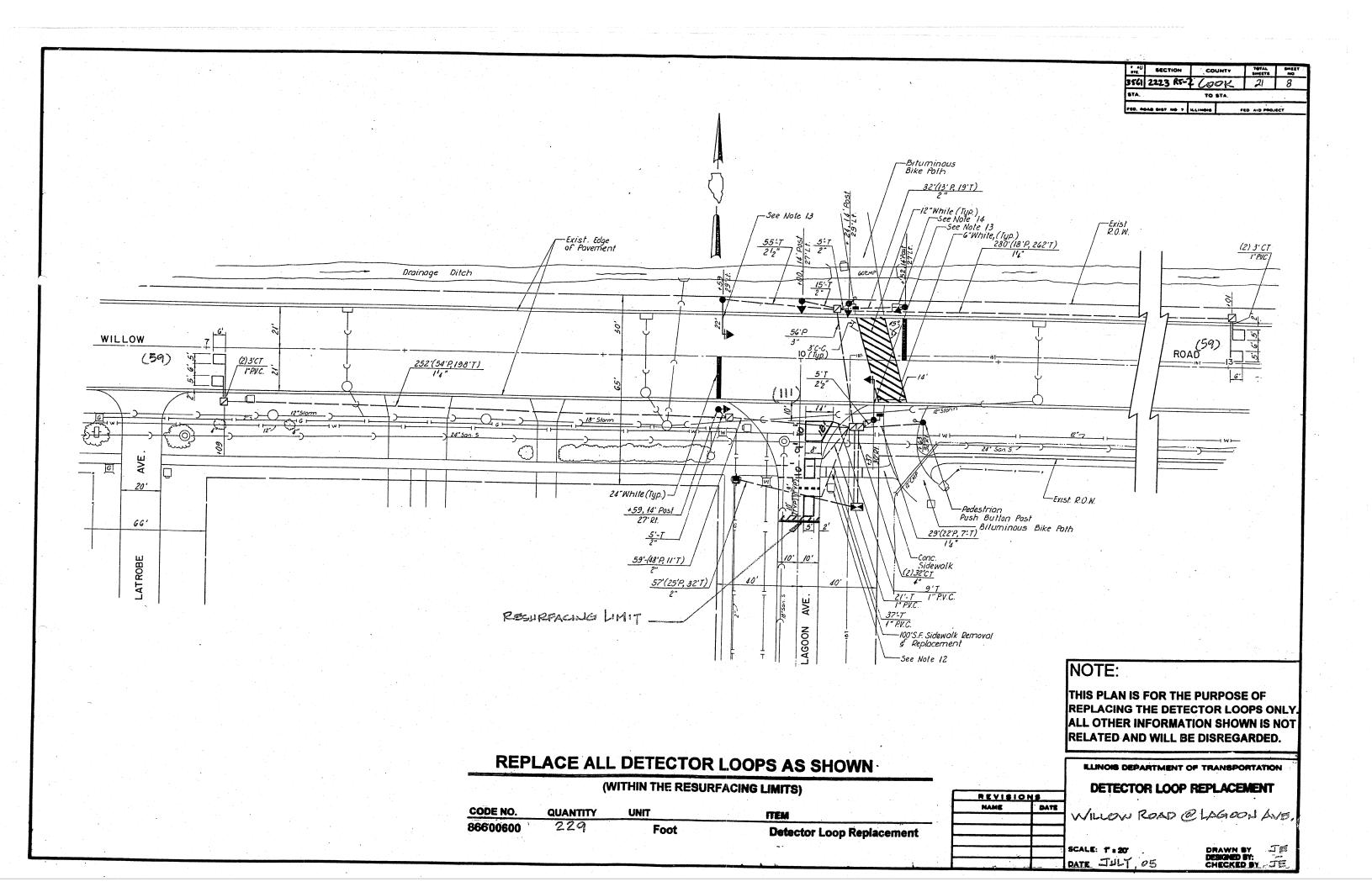
DATE I-94 (EDENS EXPY.) TO HIBBARD ROAD

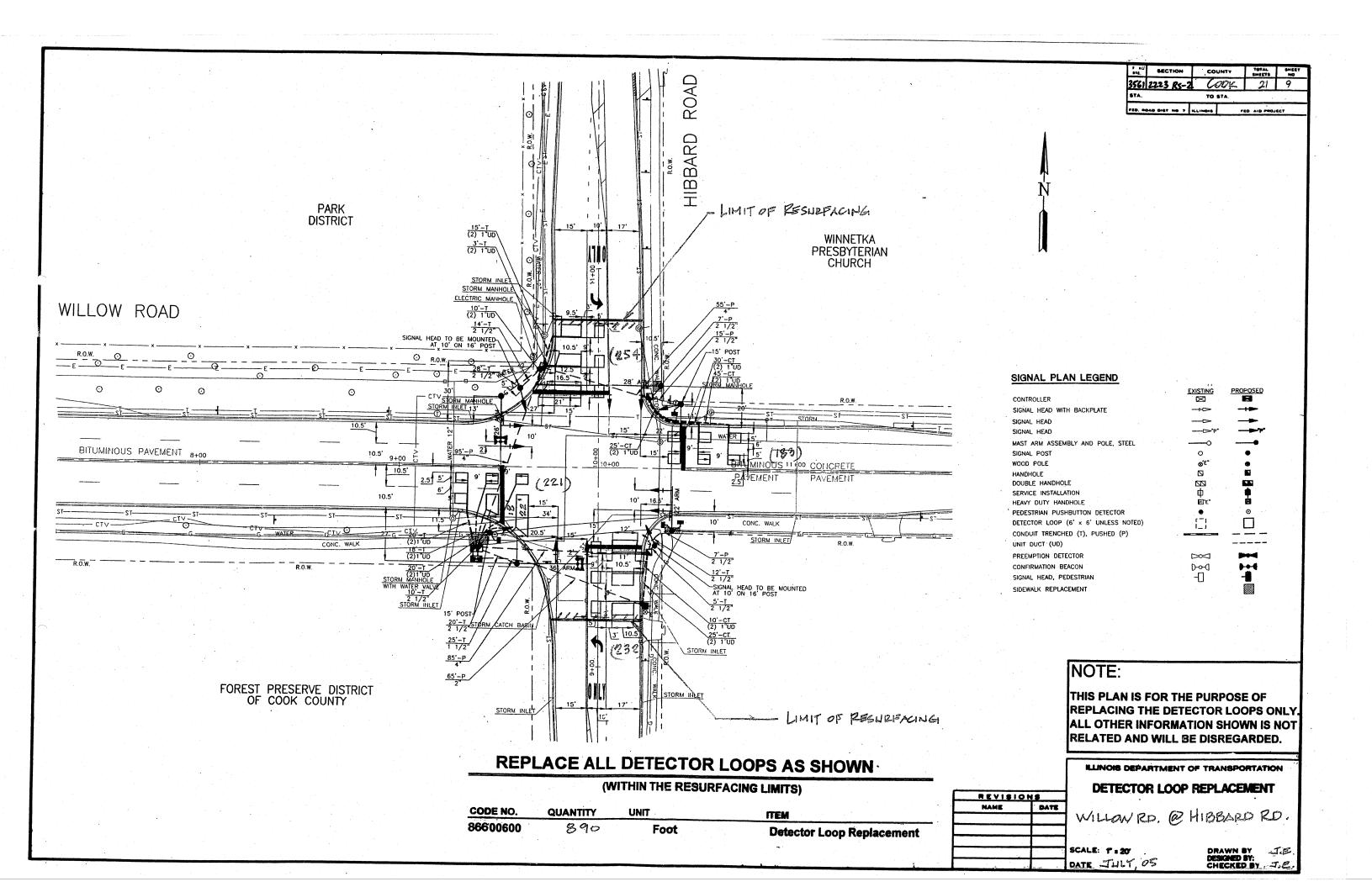
ROADWAY AND PAVEMENT MARKING PLAN

SCALE: VERT. 1"=50' HORIZ. 1"50' DATE 1/25/2008

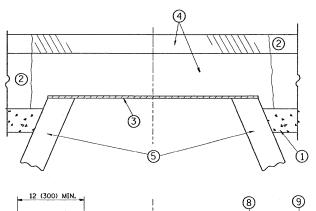
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		CONTINACT	140. 62	.12.3
F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
3561	2223 RS-2	соок	21	10
STA.		TO STA.		
FED. ROAD	DIST. NO. 1 ILLIN	OIS FED. AID	PROJECT	



-6 1:1 PROPOSED PROPOSEĎ SAND FILL BRICK, MORTAR, OR CONC. ADJUSTING RINGS PROPOSED

SAND FILL

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

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAYMENT 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.

UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

NOTES:

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 11/2 (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.

- 1 SUB-BASE GRANULAR MATERIAL
- 6 FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT
- CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- 3 36 (900) DIAMETER METAL PLATE
- 8 PROPOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- 5 EXISTING STRUCTURE
- 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.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT

WITH MILLING

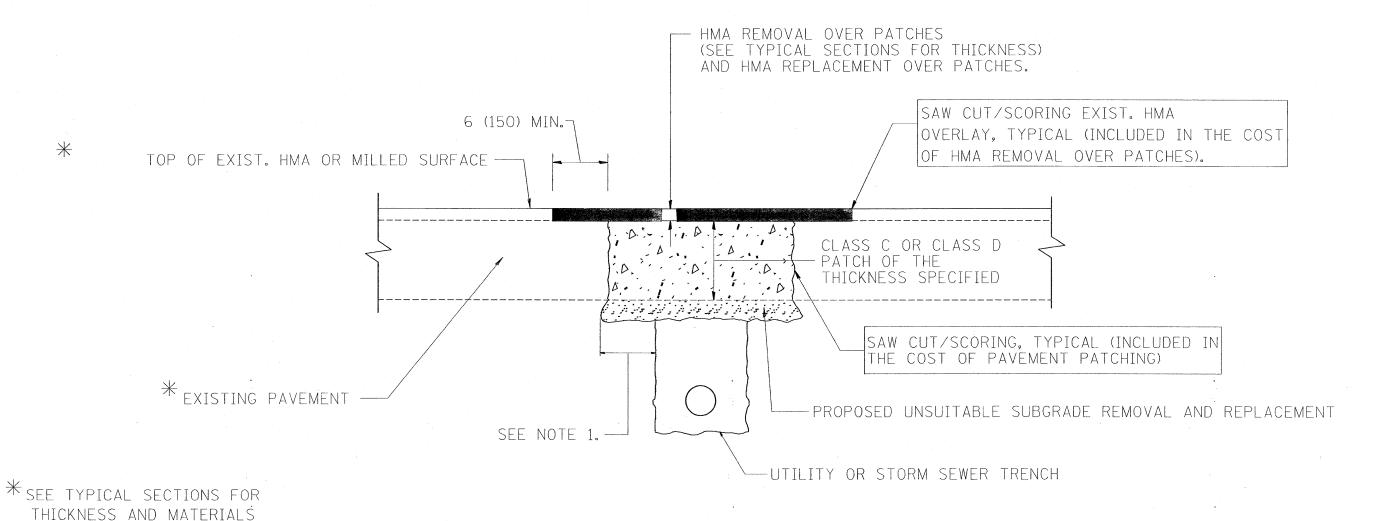
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS

REVISIONS NAME ILLINOIS DEPARTMENT OF TRANSPORTATION DETAILS FOR R. SHAH FRAMES AND LIDS ADJUSTMENT A. ABBAS 03/21/9 R. WIEDEMAN WITH MILLING R. BORO 01/01/0

SCALE: VERT. NONE

CHECKED BY BD600-03 (BD-8)

DATE NAME SCALE NAME



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

- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE FULL DEPTH PATCHES
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLES

REVISIO	ONS	TILINOTE DEDARTMEN	T OF TRANSPORTATION
NAME	DATE	ILLINOIS DEPARTMEN	I OF TRANSPORTATION
R. SHAH	10/25/94		
R. SHAH	01/14/95		
R. SHAH	03/23/95	PAVEMENT P	ATCHING FOR
R. SHAH	04/24/95	LIMA CI	JRFACED
A. HOUSEH	03/15/96		
A. ABBAS	03/21/97	PAVE	EMENT
A. ABBAS	01/20/98		
ART ABBAS	04/27/98	SCALE, VERT. NONE	DDAWN BY

RT. NONE DRAWN BY
RIZ. 1/24/2008 CHECKED BY

BD400-04 (BD-22)

REVISION DATE: 01/01/07

PLOT DATE = 1/24/2008 FILE NAME = P:\DistDetail-Willow\bd22.dg FOUT SCAFE = 52.941 / IN.

SECTION COUNTY 3561 2223 RS-2 COOK 21 | 12 TO STA. VARIABLE - TO MEET EXISTING FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT DIMENSIONS AND FIELD CONDITIONS (SEE NOTE 2) PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE 2) SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL SEE STATE STANDARD 606001 18" (450) EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE) 1/4" (5) D *i*: · · · EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE OR GROUND. PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SALT TOLERANT SOD AND TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE 1). EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT SUITABLE BACKFILL MATERIAL - 3" (75) MIN. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT) * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE. PROPOSED 34" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST * * IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.) WITH THE PAVEMENT. NOTE: (1) SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY BEING REMOVED AND WILL BE PAID FOR SEPARATELY. THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE. 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. REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE (2) CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT. CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED. REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN (3) FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS. PAVEMENT DELETE EPOXY COATED TIE BARS. PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT (4) LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT. BY THE ENGINEER. (SEE NOTE 3). (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. BASIS OF PAYMENT: (6) THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS. "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT". (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. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

- 1	REVISIONS	
	NAME	DATE
Α.	HOUSEH	03/11/94
R.	SHAH	02/24/95
R.	SHAH	03/02/95
R.	SHAH	08/19/96
R.	SHAH	09/12/96
R.	SHAH	09/19/96
R.	SHAH	10/03/96
A.	ABBAS	03/21/97
М.	GOMEZ	01/22/01
R.	BOR0	01/01/07
-		

ILLINOIS DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

SCALE: VERT. NONE

CHECKED BY BD600-06 (BD-24)

DRAWN BY

CONTRACT NO. 62129

PROP. PAY LIMIT OF HMA SURF. REMOVAL FULL THICKNESS OF MILLING TEMP. RAMP (NOTE "C") (NOTE "E") PROP. HMA SURFACE REMOVAL-EXIST. HMA EXIST. PAVEMENT SURFACE MILLED TEMPORARY RAMP (FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW) OPTION 1 PROP. PAY LIMIT OF HMA SURF. REMOVAL FULL THICKNESS OF MILLING SAW CUT (INCLUDED IN THE COST OF HMA SURFACE TEMP. RAMP PROP. HMA SURFACE REMOVAL REMOVAL - BUTT JOINT) (NOTE "E") 13/4 (45) FOR E AND F MIX 4'-6" (1.35 m) PAY LIMIT FOR BUTT JOINT $1\frac{1}{2}$ (40) FOR C AND D MIX (NOTE "D") (NOTE "F") EXIST, HMA SURF. EXIST. PAVEMENT HMA CONSTRUCTED TEMPORARY RAMP (FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW) OPTION 2 TYPICAL TEMPORARY RAMP HMA TAPER LENGTH *** SAW CUT (INCLUDED IN THE COST OF HMA SURFACE PROP. HMA SURF. CRSE. REMOVAL - BUTT JOINT) 4'-6" (1.35 m) PROP. HMA BINDER CRSE. VARIES 13/4 (45) FOR E AND F MIX 1/2 (40) FOR C AND D MIX EXIST. HMA SURF. EXIST. PAVEMENT HMA SURF. REMOVAL - BUTT JOINT BUTT JOINT AND HMA TAPER TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

TOTAL SHEE SHEETS NO. SECTION COUNTY 3561 2223 RS-2 соок 21 13 STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT PROP. HMA OR PCC
SURFACE REMOVAL - BUTT JOINT
30'-0" (9.0 m) (NOTE "A") SAW CUT (INCLUDED IN THE COST OF HMA OR P.C.C. SURFACE REMOVAL EXIST, HMA OR PCC SURFACE 15'-0" (4.5 m) (NOTE "B") - BUTT JOINT) (NOTE "D") 13/4 (45) FOR E AND F MIX 1/2 (40) FOR C AND D MIX * * EXIST. PAVEMENT BUTT JOINT DETAIL TAPER LENGTH * * *

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

HMA TAPER DETAIL

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

* * EXIST. PAVEMENT

PROP. HMA SURF. CRSE.-

PROP. HMA BINDER CRSE.

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.

VARIES

- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-O" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

* * * 20'-0" (6,1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B") ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

ILLINOIS DEPARTMENT OF TRANSPORTATION

BASIS OF PAYMENT:

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

NAME	DATE	
M. DE YONG	6-13-90	
M. DE YONG	7-3-90	
M. DE YONG	3-27-92	
R. SHAH	09/09/94	
R. SHAH	10/25/94	
A. ABBAS	03/21/97	
M. GOMEZ	04/06/01	
R. BORO	01/01/07	SCA
		SU

BUTT JOINT AND

13/4 (45) FOR E AND F MIX

1/2 (40) FOR C AND D MIX

HMA TAPER DETAILS

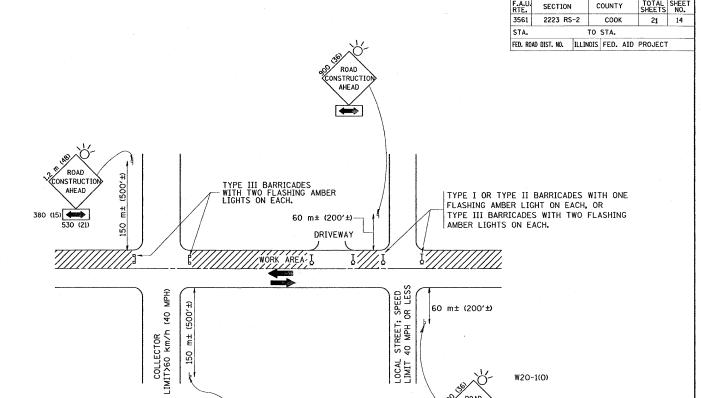
CALE: VERT. NONE

DRAWN BY CHECKED BY

CONTRACT NO. 62129

BD400-05 (VI=BD32)

CONTRACT NO. 62129



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 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- d) ONE ROAD CONSTRUCTION AHEAD SIGN 900×900 (36×36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200") IN ADVANCE OF THE MAIN ROUTE.

SPEED

- 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 60 km/h (40 MPH) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- a) ONE ROAD CONSTRUCTION AHEAD SIGN 1.2 m \times 1.2 m (48 \times 48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500°) IN ADVANCE
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-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.

W20-1(0)

M6-4(0)-2115

M6-1(0)-2115

ROAD

AHEAD

- 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.

REVISIO	vs		Г
NAME		DATE	
LHA		6/89	ŀ
T. RAMMACHER	09	/08/94	
J. OBERLE	10	/18/95	
A. HOUSEH	03	/06/96	
A. HOUSEH	10	/15/96	
T. RAMMACHER	01	/06/00	ĺ

ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: DATE: 1/24/2008

DRAWN BY CHECKED BY

TC-10

REVISION DATE: 01/06/00

DATE NAME SCALE NAME

CONTRACT NO. 62129 SECTION COUNTY TOTAL SHEET SHEETS NO. 2223 RS-2 COOK 21 15 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT 24 m (80') O.C. 3 @ 12 m (40') 0.C. 24 m (80') 0.C. SEE NOTE B **⟨**□ \Rightarrow D & *** REDUCE TO 12 m (40') O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 70 km/h (45 M.P.H.) OR LESS. 1 12 m (40') 0.C. TWO-LANE/TWO-WAY \Longrightarrow SEE NOTE A-LANE REDUCTION TRANSITION TWO-WAY LEFT TURN 24 m (80') O.C \leftarrow SEE NOTE B SEE NOTE B GENERAL NOTES SYMBOLS 1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS. ----- YELLOW STRIPE \Box WHITE STRIPE 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 50 TO 75 (2 TO 3) TOWARD TRAFFIC AS SHOWN. ONE-WAY AMBER MARKER \Rightarrow 3. MARKERS THROUGH TANGENTS LESS THAN 150 m (500') IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE ONE-WAY CRYSTAL MARKER (W/O) LESSER OF THE TWO CURVE SPACINGS. ⇒ TWO-WAY AMBER MARKER SEE NOTE A- \Rightarrow MULTI-LANE/UNDIVIDED LANE MARKER NOTES SEE NOTE A B. REDUCE TO 12 m (40°) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 20 km/h (10 M.P.H.) LOWER THAN POSTED SPEEDS. MULTI-LANE/DIVIDED 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 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 MINIMUM OF 3 W 3 @ 24 m (80') O.C. --- 3 @ 24 m (80′) O.C. EQUALLY SPACED SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE 3 @ 12 m (40') 3 @ 12 m (40') 12 m (40') <--- \Rightarrow \Rightarrow 12 m (40') 12 m (40') 0.C. All dimensions are in millimeters (inches) unless otherwise shown. * SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE ILLINOIS DEPARTMENT OF TRANSPORTATION * * WHERE THE MEDIAN WIDTH IS 2 m (6') OR LESS USE TWO-WAY MARKERS. RAMMACHER TYPICAL APPLICATIONS RAMMACHER RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) LEFT TURN

)T DATE = 1/24/2008 E NAME = P:\DistDetail-Wil)T SCALE = 52.941 '/ IN.

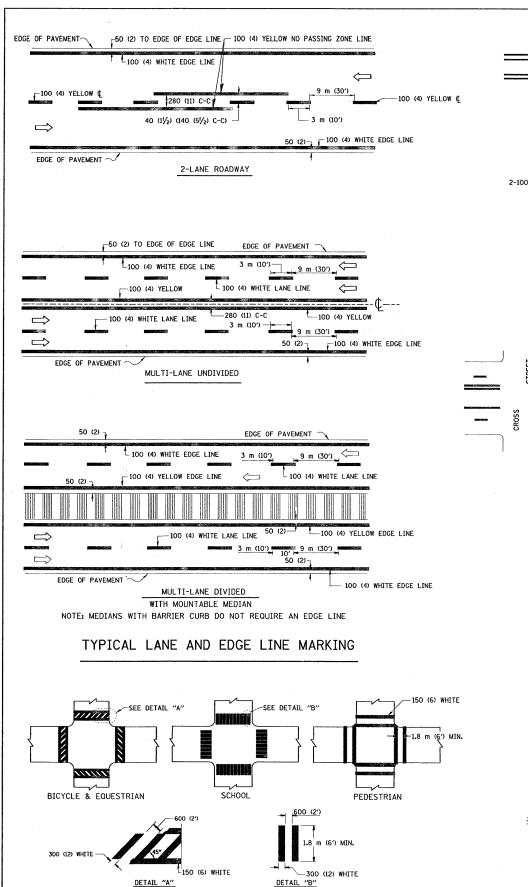
TC-11
REVISION DATE: 01/06/00

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CHECKED BY

SCALE: NONE

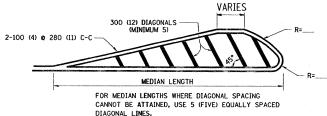
DATE: 1/24/2008



TYPICAL CROSSWALK MARKING

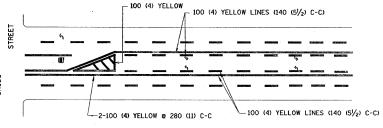
2-100 (4) YELLOW @ 280 (11) C-C-1.2 m (4') OUTSIDE TO NO DIAGONALS OUTSIDE OF LINES - 2-100 (4) YELLOW @ 280 (11) C-C

1.2 m (4') WIDE MEDIANS ONLY

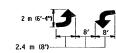


DIAGONAL LINE SPACING: 15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH))

MEDIANS OVER 1.2 m (4') WIDE

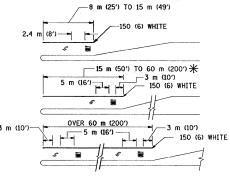


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 60 m (200') TO 90 m (300') INTERVALS,



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

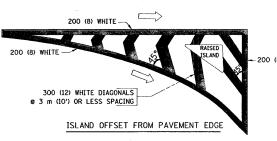


FULL SIZE LETTERS 2.4 m (87) AND ARROWS SHALL BE USED. \P AREA = 1.5 m² (15.6 SQ. FT.) \P AREA = 1.9 m² (20.8 SQ. FT.)

* TURN LANES IN EXCESS OF 120 m (400') 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



- 50 (2) 200 (8) WHITE -**ISLAND** ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	100 (4)	SKIP-DASH	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 @ 100 (4)	SOLID	YELLOW	280 (11) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	100 (4) 2 @ 100 (4)	SOLID SOLID	YELLOW YELLOW	140 (5½) C-C FROM SKIP-DASH CENTERLINE 280 (11) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	100 (4) 125 (5) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	3 m (10') LINE WITH 9 m (30') SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	600 (2') LINE WITH 1.8 m (6') SPACE
EDGE LINES	100 (4)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	150 (6) LINE; FULL SIZE LETTERS & SYMBOLS (2.4 m (8'))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 100 (4) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	3 m (10') LINE WITH 9 m (30') SPACE FOR SKIP-DASH; 140 (51/2) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	2.4 m (8') LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 e 150 (6) 300 (12) e 45° 300 (12) e 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 1.8 m (6') APART 600 (2') APART 600 (2') APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	600 (24)	SOLID	WHITE	PLACE 1.2 m (4') IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 100 (4) WITH 300 (12) DIAGONALS	SOLID .	YELLOW: TWO WAY TRAFFIC	280 (11) C-C FOR THE DOUBLE LINE
	e 45° NO DIAGONALS USED FOR 1.2 m (4') WIDE MEDIANS	-	WHITE: ONE WAY TRAFFIC	SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 4.5 m (15°) C-C (LESS THAN 50 km/h (30 MPH)) 6 m (20°) C-C (50 km/h (30 MPH) TO 70 km/h (45 MPH)) 9 m (30°) C-C (0VER 70 km/h (45 MPH))
RAILROAD CROSSING	600 (24) TRANSVERSE LINES; "RR" IS 1.8 m (6') LETTERS; 400 (16) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=0.33m ² (3.6 SQ. FT.) EACH "X"=5.0 m ² (54.0 SQ. FT.)
SHOULDER DIAGONALS	300 (12) & 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	15 m (50') C-C (LESS THAN 50 km/h (30 MPH)) 25 m (75') C-C (50 km/h (30 MPH) T0 70 km/h (45 MPH) 45 m (150') C-C (OVER 70 km/h (45 MPH))

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

All dimensions are in millimeters (inches)

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE

TYPICAL PAVEMENT MARKINGS

SCALE: NONE DATE: 1/24/2008 DRAWN BY CADD CHECKED BY TC-13

CONTRACT NO. 62129 COUNTY TOTAL SHEET NO.

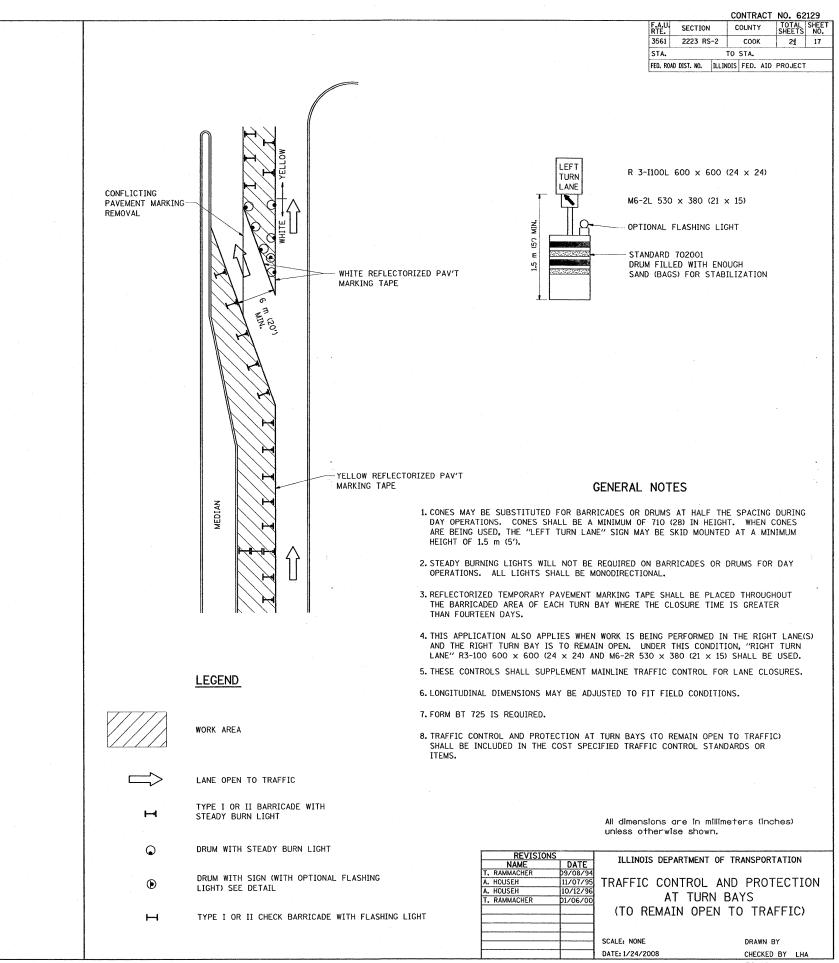
21 16

COOK

TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

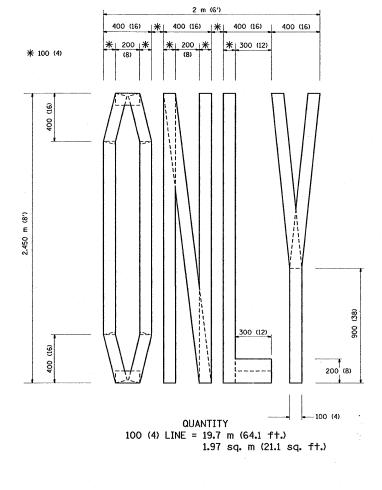
SECTION 3561 2223 RS-2

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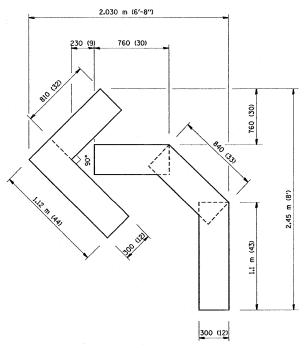


TC-14 REVISION DATE: 01/06/00

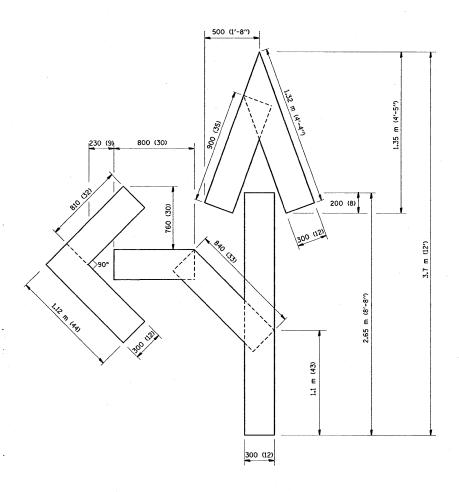




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QUANTITY 100 (4) LINE = 13.9 m (45.5 ft.) 1.39 sq. m (15.2 sq. ft.)



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

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

REVISIONS		ILLINOIS DEPARTMENT OF	TDANCDODTATION
NAME	DATE	ILLINOIS DEPARTMENT OF	I MANSFORTATION
T. RAMMACHER	09/18/94		
J. OBERLE	06/01/96	DAVENERITA	AADIZTNIC
T. RAMMACHER	06/05/96	PAVEMENT N	MARKING
T. RAMMACHER	11/04/97	LETTERS AND	SYMBOLS
T. RAMMACHER	03/02/98		
E. GOMEZ	08/28/00	FOR TRAFFIC STAG	STAGING
		SCALE: NONE	DRAWN BY CADD

DATE: 1/24/2008

DRAWN BY CADD CHECKED BY TC-16

F.A.U. SECTION COUNTY 3961 8288LRS-RS-2 COOK STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT 68 (1700) 54 (1350) (175) (175) ROAD WORK EXPECT DELAYS USE APPROPRIATE MONTH AND DATE FOR CONTRACT -1 (25) BLACK BORDER MIN BEGINS $\times \times \times$ (2.1 58 (1450) 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.

T. RAMMACHER

C. JUCIUS

45

UNIE 1/24/2000 LE NAME = Pt\DistDetail-Willow\to22.dgn OT SCALE = 52.941 '/ IN.

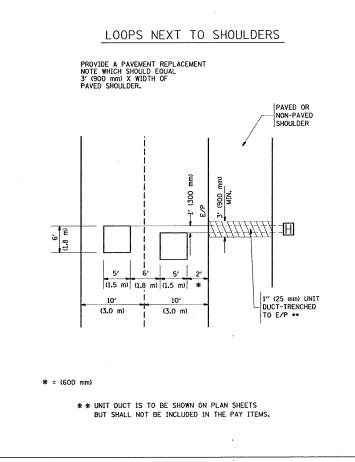
SCALE: NONE

DRAWN BY DESIGN CHECKED BY

TC22

ILLINOIS DEPARTMENT OF TRANSPORTATION ARTERIAL ROAD

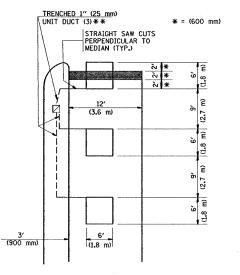
INFORMATION SIGN



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

(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY 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.

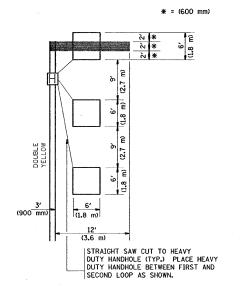


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

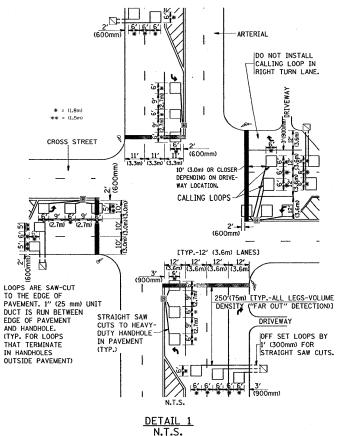
LEFT TURN LANES WITHOUT MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

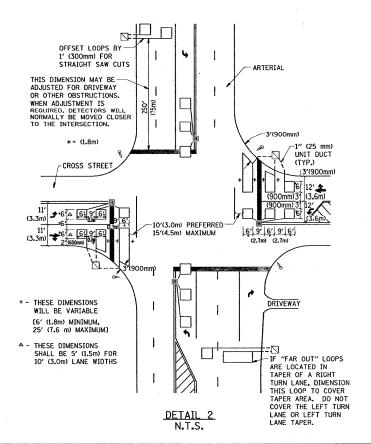


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



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



VEHICLES LOOP DETECTORS

NOTES:

* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED. SHIELDED.

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- * 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

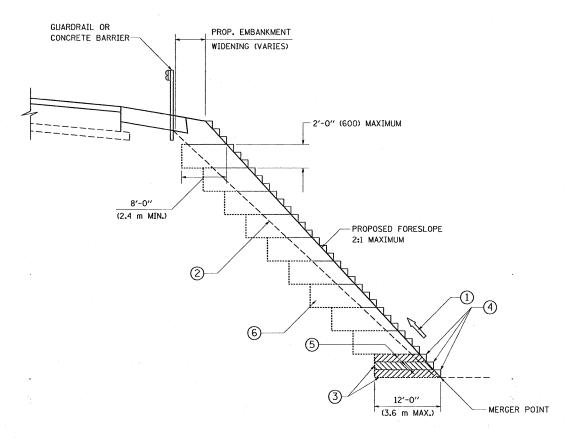
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

REVISIONS		ILLINOIS DEPARTMENT	OF TRANSPORTATION
NAME	DATE	ILLINOIS DEPARTMENT	OF TRANSFORTATION
		DISTR	ICT 1
		DETECTO	OR LOOP
		INSTALLATI	ON DETAILS
		FOR ROADWAY	RESURFACING
			DESIGNED BY
· · · · · · · · · · · · · · · · · · ·		SCALE: NONE	DRAWN BY CADD
		DATE: 1/24/2008	CHECKED BY R.K.F.

TS07 REVISION DATE:

CONTRACT NO. 62129

F.A.U. RTE.	SECTION	COUNT	Y TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FFD. RO.	AD DIST. NO.	TILINOIS EED.	AID PROJECT	Г



TYPICAL BENCHING DETAIL FOR EMBANKMENT

NOTES:

- CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT ONSTRUCT SUCCEEDING BENCH COLD AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- (3) BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- (4) TRIM TO FINAL SLOPE.
- EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

ILLINOIS DEPARTMENT OF TRANSPORTATION BENCHING DETAIL FOR EMBANKMENT WIDENING SCALE: VERT. NONE DRAWN BY: CADD

CHECKED BY: S.E.B.