STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

TRAFFIC DATA

LOCATION 1: ADT = 24,000 (2003)SPEED LIMIT = 30 MPH

LOCATION 2: ADT = 19,900 (2003) SPEED LIMIT = 35 MPH

IMPROVEMENT LOCATED IN THE CITY OF MCHENRY

LOCATION 1: F.A.P ROUTE 336: IL 31 (RICHMOND ROAD) NORTH OF IL 120 LOCATION 2: F.A.P ROUTE 333: IL 120 (ELM STREET)
EAST OF FOX RIVER **SECTION: 2004–110RS RESURFACING MCHENRY COUNTY** C-91-030-05

R 8 E. LOCATION 1 RINGWOOD **IMPROVEMENT** ENDS STA. 16+62 LOCATION 2 STA. 22+95 TO 26+47 45 MC HENRY LOCATION 1 **IMPROVEMENT** BEGINS STA. 2+75 MCHENRY TOWNSHIP

GROSS LENGTH OF IMPROVEMENT

LOCATION 1: 1387 FT = 0.263 MI.

LOCATION 2: 472 FT = 0.089 MI.

TOTAL = 1859 FT = 0.352 MI.NET LENGTH OF IMPROVEMENT

LOCATION 1: 1387 FT = 0.283 MI

LOCATION 2: 472 FT = 0.089 MI. TOTAL = 1859 FT = 0.352 MI.

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

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

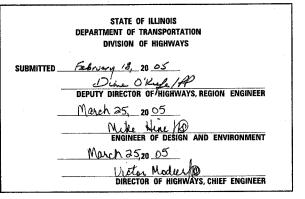
CONTRACT NO. 62855

LOCATION OF SECTION INDICATED THUS: -

D-91-030-05

CONTRACT NO. 6285

RTE. SECTION COUNTY TOTAL SHEETS NO. 333/336 2004-110RS MCHENRY 18 1



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

ENG/R. BORO (847) 705-4178 ż DISTRICT ONE DESIGN PLAN PREPARATION ENGINEER

CONTRACT NO. 62855

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
333/336	2004-110RS	MCHENRY	18	2			
STA. 2+75 TO STA.16+62							
CED DO	O DICT NO 1 TILTA	MIC EED ATD	PPOJECT				

INDEX OF SHEETS

1.	TITLE SHEET
2.	INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES
3.	SUMMARY OF QUANTITIES
4-7.	TYPICAL CROSS SECTIONS
8-10.	ROADWAY PLANS
11.	DETECTOR LOOP DETAIL, IL 120 & RIVER ROAD
12.	DISTRICT 1 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING
13.	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
14.	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
15.	BUTT JOINT DETAIL AND BITUMINOUS TAPER DETAIL
16	TYPICAL APPLICATION FOR RAISED REFLECTIVE PAVEMENT MARKERS
17.	PAVEMENT MARKING LETTERS AND SYMBOLS
18.	PAVEMENT PATCHING FOR BITUMINOUS SURFACED PAVEMENTS

STATE STANDARDS

442201-01	CLASS D PATCHING
701101 - 01	OFF-ROAD OPERATIONS, MULTILANE, 4.5M (15') TO 600MM (24") FROM PAVEMENT EDGE
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-03	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-04	URBAN LANE CLOSURE, MULTILANE INTERSECTION
702001-05	TRAFFIC CONTROL DEVICES
7770001 0:	TYPICAL PAYCHENT MARKINGS

MIXTURE REQUIREMENTS

MIXTURE USE	AC/PG	VOIDS	RAP % (MAX)	THICKNESS	
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70	PG 64-22	4.0% @ 70 GYR	10	1.5"	
POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50	SBS/SBR PG 76-28	2.5% @ 50 GYR	0	0.75"	
BIŤUMINOUS REPLACEMENT OVER PATCHES, IL 19.0MM	PG 64-22	4.0% @ 70 GYR	15	1.5"	
CLASS D PATCH, IL 19.0MM	PG 64-22	4.0% & 70 GYR	15	10′′	

NOTE: THE UNIT WEIGHT USED FOR ALL BITUMINOUS SURFACE MIXTURES IS 112 LBS./SQ.YD./IN.

GENERAL NOTES

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

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

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE REESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 AT LEAST TWO (2) WEEKS PRIOR TO PLACEMENT OF FINAL PERMANENT PAVEMENT MARKINGS.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM FIELD MAINTENANCE ENGINEERS.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKINGS OUTSIDE THE REMOVAL LINES SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

THE ENGINEER SHALL CONTACT MS. DEBBIE HANLON, TRAFFIC FIELD ENGINEER (OR TECHNICIAN), AT (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.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

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.

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III AND IT'S REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.

REVISION	IS	THE TRIOTS DEDA	RTMENT OF TRANSPORTATION
NAME	DATE	ILLINOIS DEFA	NIMENT OF TRANSPORTATION
			NDEX OF SHEETS GEMERAL NOTES TATE STANDARDS
		SCALE: VERT. HORIZ. DATE	DRAWN BY CHECKED BY

 COUNTY
 TOTAL SHEET NO.

 MCHENRY
 18
 3
 F.A.P. SECTION 336,333 2004-110RS FED. ROAD DIST. NO. 1 ILLINOIS. HIGHWAY PROJECT

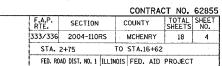
	SUMMARY OF QUANTITIES		URBAN IOOO			CONSTRUCTION T	YPE CODE 1000		SUMMARY OF QUANTITIES		IOOO		Γ	CONSTRUCTI	ON TYPE CODE 1000	J T
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	LOC. 1 IL 31	LOC. 2			CODE NO	ITEM	UNIT	TOTAL QUANTITIES	LOC. 1 IL 31	LOC. 2 IL 120			
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	17	12	5			* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	170	160	10			
40600300	AGGREGATE (PRIME COAT)	TON	17	1/2	5			¥ 78000650	THERMOPLASTIC PAVEMENT MARKING	FOOT	120	48	72			
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	17	12	5	,			- LINE 24"							
40600895	CONSTRUCTING TEST STRIP	EACH	1	1				X 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	151	101	50			
40600980	BITUMINOUS SURFACE REMOVAL - BUTT JOINT	SQ YD	103.5	43.5	60			78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	151	101	50			
40601000	BITUMINOUS REPLACEMENT OVER PATCHES	TON	6	6				* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	426		426			
44000006 44000112	BITUMINOUS SURFACE REMOVAL 1 1/2" BITUMINOUS REMOVAL DUER PATCHES 3"	SQ YD SQ YD SQ YD	5970 34 30	5970 3 4 30				X0322467	TEMPORARY INFORMATION SIGNING FOR LANE CLOSURE	SQ FT	96	48	48			
44201769 60252800	CLASS D PATCHES, TYPE III, 10 INCH CATCH BASINS TO BE RECONSTRUCTED	EACH	1	1				X4066426	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70	TON	1201	699	502			
60252800	VALVE VAULTS TO BE ADJUSTED	EACH	2	1	1			X4067100	POLYMERIZED LEVELING BINDER (MACHINE	TON	140		140			
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	6	6					METHOD), SUPERPAVE, IL-4.75, N50	CO YD	0750		2350			
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	5	4	1			X4409410	BITUMINOUS SURFACE REMOVAL 2 1/4"	SQ YD	2350		2350			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	1	1					4						
67100100	MOBILIZATION	L SUM	1	0.5	0.5											
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	2802	2276	526						,					
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	328	255	73						ı					
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	4510	3814	696											
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	860	670	190											
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	170	160	10											
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	120	48	72											
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	328	255	73					-						
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4510	3814	696	·										
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	860	670	190											

*SPECIALTY ITEMS

REVISIONS

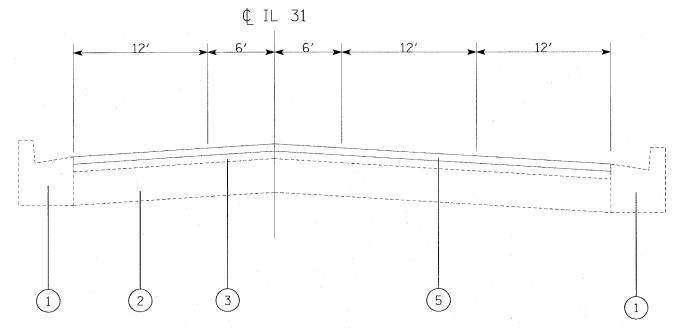
ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES

PLOT DATE:_2/16/2005



¢ IL 31

EXISTING TYPICAL CROSS SECTION IL 31 (RICHMOND ROAD) STA. 2+75 TO 5+56



PROPOSED TYPICAL CROSS SECTION
IL 31 (RICHMOND ROAD)
STA. 2+75 TO 5+56

- (1) EXISTING CURB AND GUTTER, TYPE B-6.12
- 2) EXISTING CONCRETE PAVEMENT, 10"
- (3) EXISTING BITUMINOUS SURFACE, 3"
- 4) PROPOSED BITUMINOUS CONCRETE SURFACE REMOVAL, 1/2"
- PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70, 1/2"

REVISIONS
NAME DATE

LOCATION 1, IL 31
TYPICAL SECTIONS

SCALE: VERT.
HORIZ.
DATE

CHECKED BY

DATE = 2/16/2005 NAME = #FILEL* SCALE = 50.0000 // IN. RENCE = #REF*

1) EXISTING CURB AND GUTTER, TYPE B-6.12

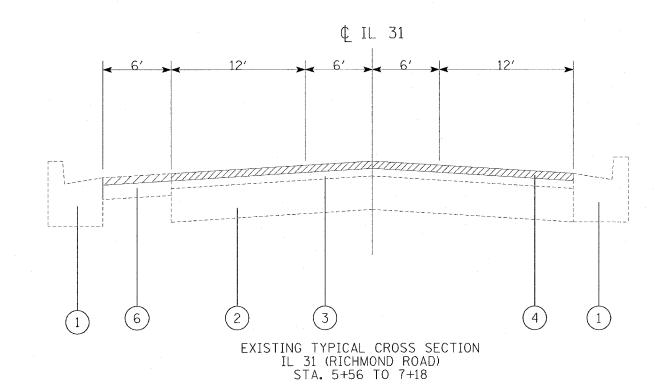
(2) EXISTING CONCRETE PAVEMENT, 10"

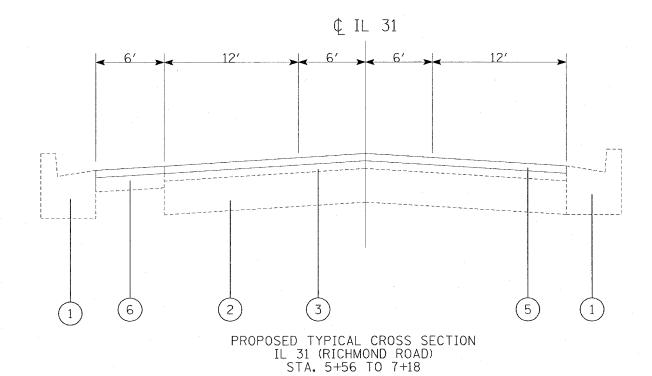
3) EXISTING BITUMINOUS SURFACE, 3"

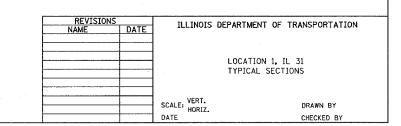
 $\overbrace{4}$) PROPOSED BITUMINOUS CONCRETE SURFACE REMOVAL, $1\frac{1}{2}$ "

PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70, $1\frac{1}{2}$ "

(6) EXISTING BITUMINOUS SHOULDER







DATE = 2/16/2005

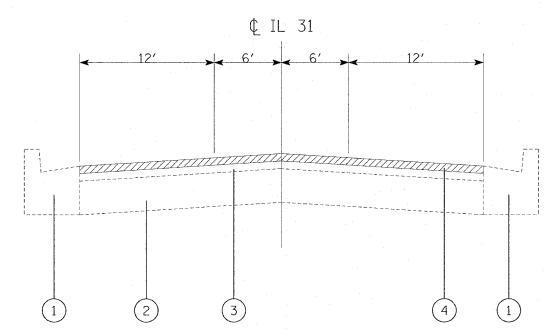
1) EXISTING CURB AND GUTTER, TYPE B-6.12 & B-6.24

(3) EXISTING BITUMINOUS SURFACE, 3"

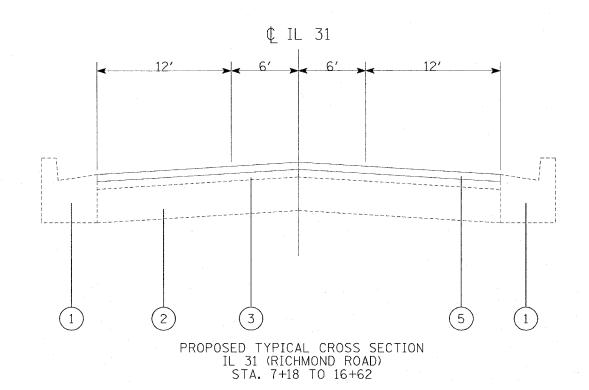
EXISTING CONCRETE PAVEMENT, 10"

 $\widehat{4}$) PROPOSED BITUMINOUS CONCRETE SURFACE REMOVAL, $1\frac{1}{2}$ "

PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70, 11/2"



EXISTING TYPICAL CROSS SECTION IL 31 (RICHMOND ROAD) STA. 7+18 TO 16+62





1) EXISTING CURB AND GUTTER, TYPE B-6.24

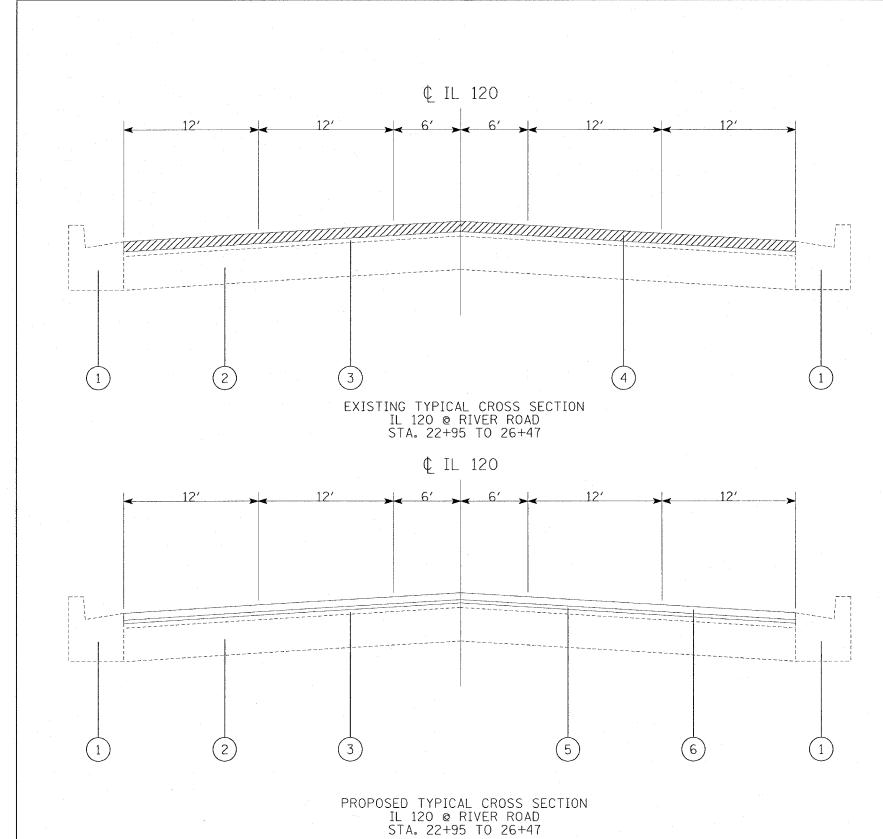
(2) EXISTING CONCRETE PAVEMENT, 10"

3) EXISTING BITUMINOUS SURFACE, 3"

4) PROPOSED BITUMINOUS CONCRETE SURFACE REMOVAL, 21/4"

PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50, 3/4"

6 PROPOSED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N70 1/2"



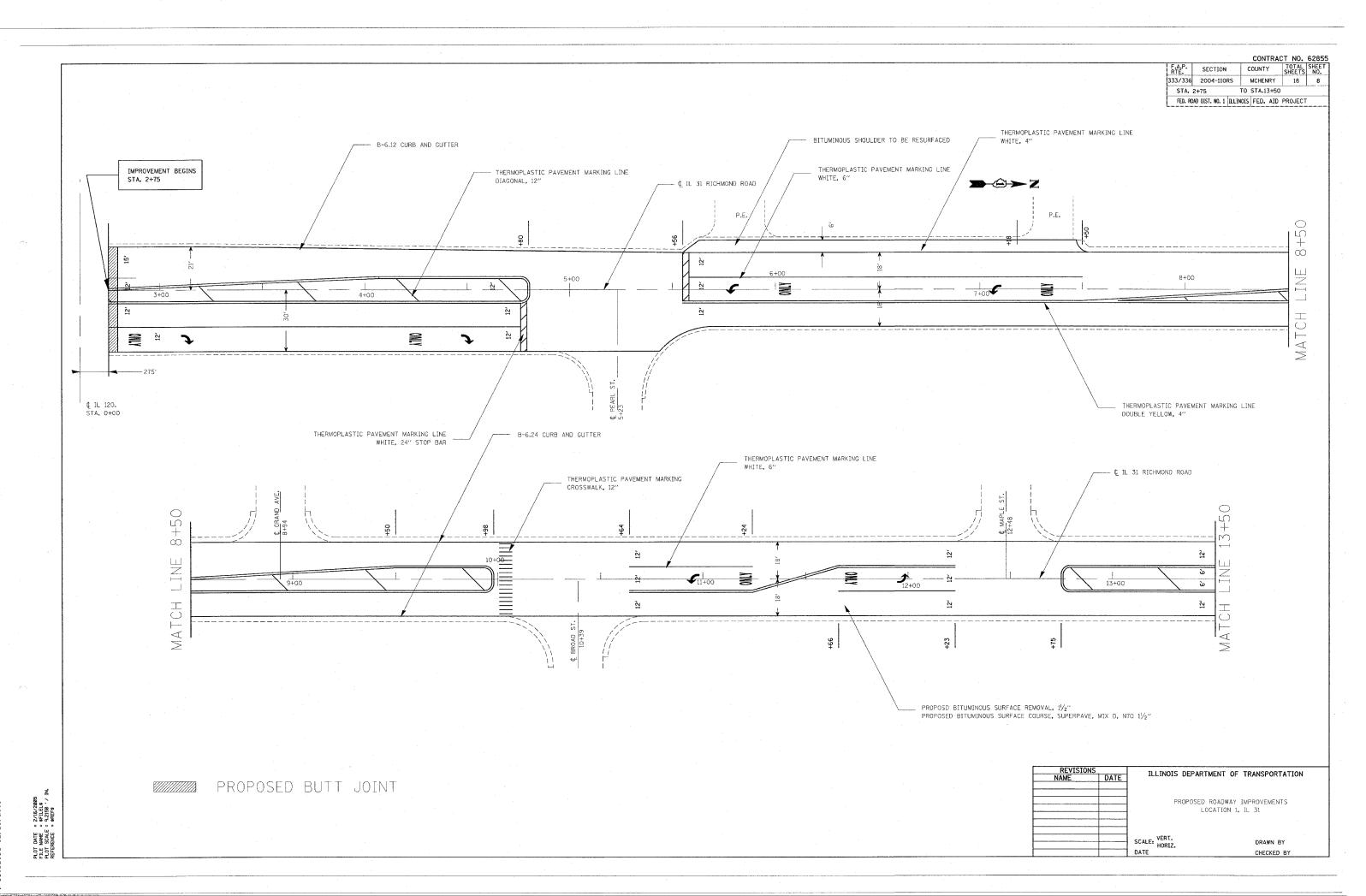
REVISIONS
NAME
DATE

LOCATION 2, IL 120
TYPICAL SECTIONS

SCALE: VERT.
HORIZ.

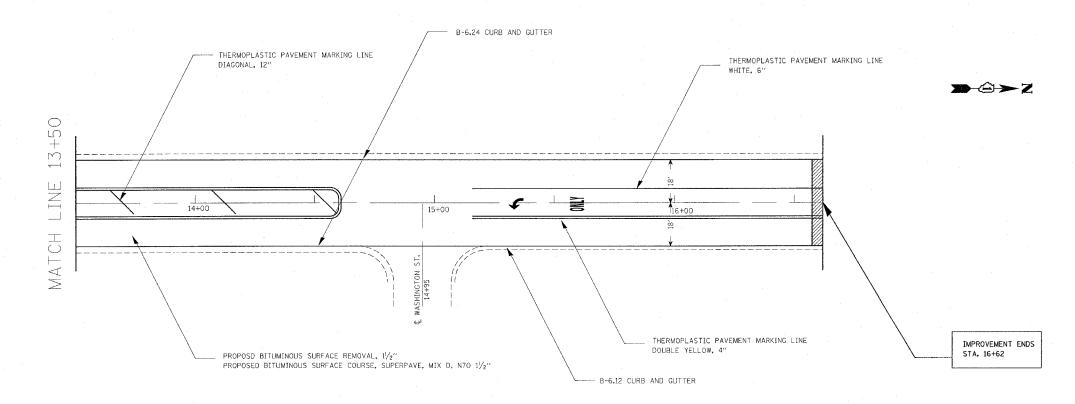
DRAWN BY

01 DATE = 2/16/2005 LE NAME = 8FILEL\$ 01 SCALE = 50.0000 // IN.



08:32:54 02/16/2005

CONTRACT NO. 62855
COUNTY TOTAL SHEET NO. F.A.P. SECTION 333/336 2004-110RS MCHENRY 18 9 STA. 13+50 TO STA.16+62 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



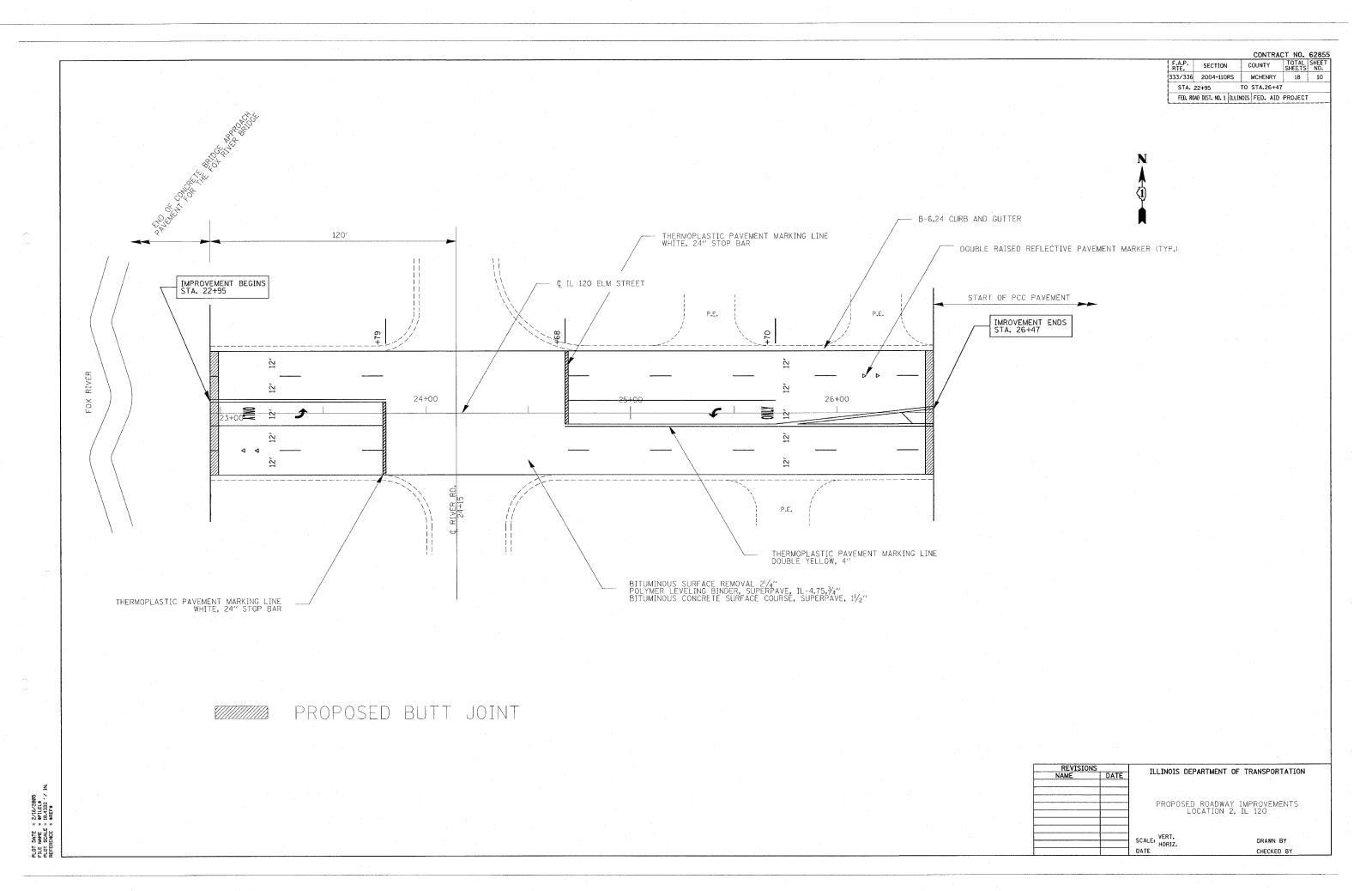
PROPOSED BUTT JOINT

ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED ROADWAY IMPROVEMENTS LOCATION 1, IL 31 DRAWN BY

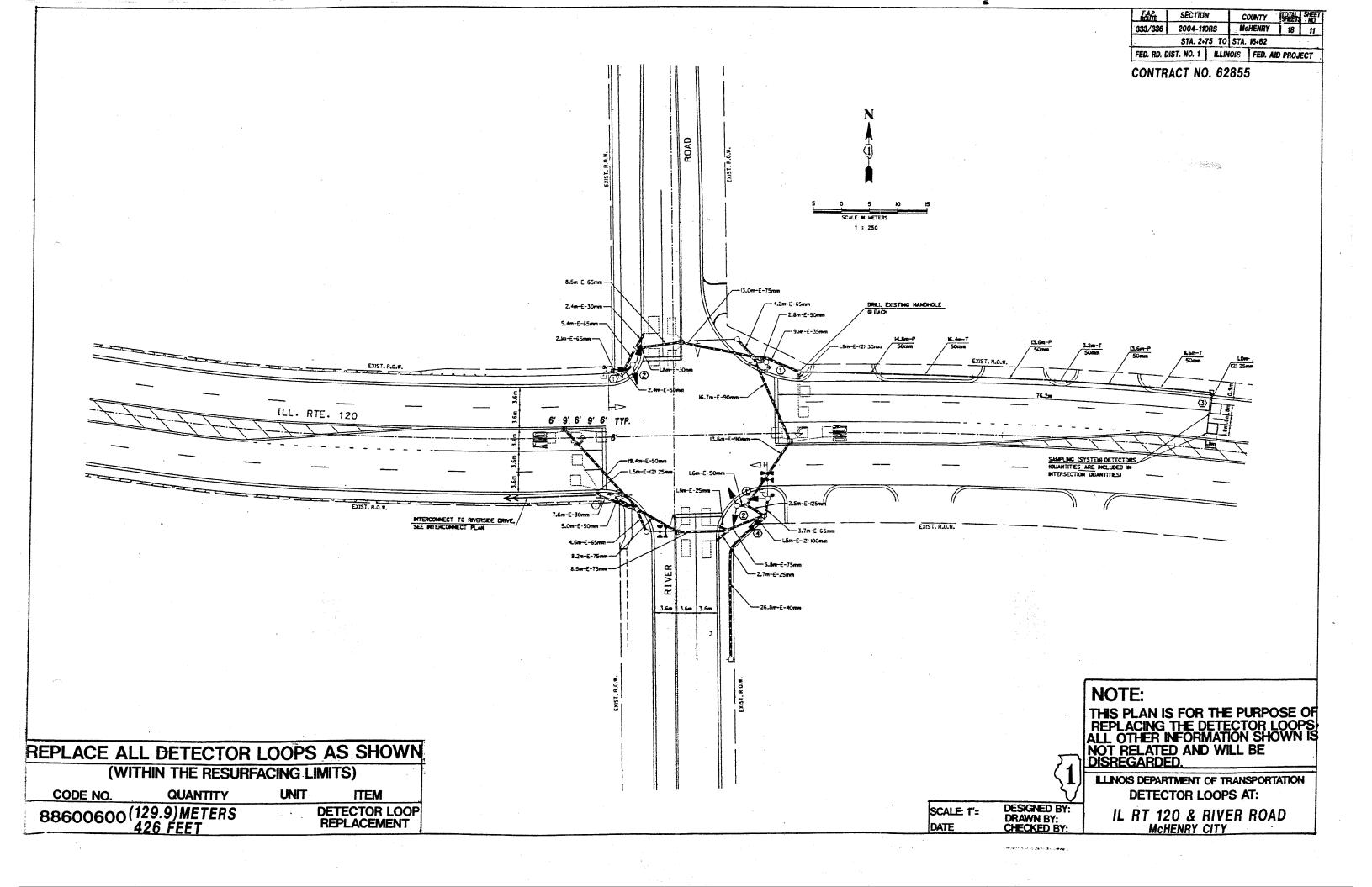
SCALE: VERT. DATE

CHECKED BY

PLOT DATE = 2/16/2005 FILE NAME = *FILEL* PLOT SCALE = 9,2150 '/ IN. REFERENCE = *REF*



08:33:29 02/16/2005

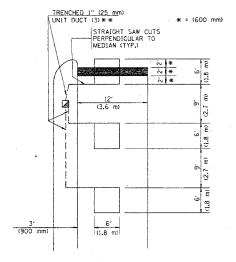


LOOPS NEXT TO SHOULDERS PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED OR NON-PAVED SHOULDER 900 NIN (1.5 m) (1.8 m) (1.5 m) * 1" (25 mm) UNI TO E/P ** (3.0 m) * = (600 mm) * * UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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.

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

(PROTECTED / PERMITTED LEFT TURN PHASING)

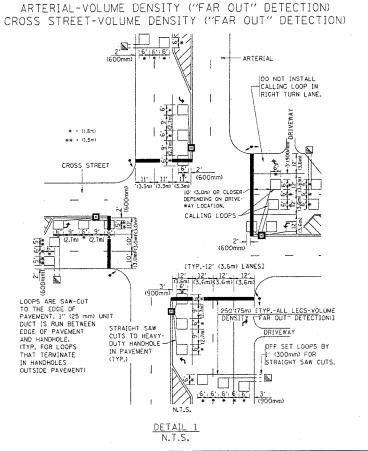
(900 mm) (1.8 m) (3.6 m) STRAIGHT SAW CUT TO HEAVY DUTY HANDHOLE (TYP.) PLACE HEAVY DUTY HANDHOLE BETWEEN FIRST AND

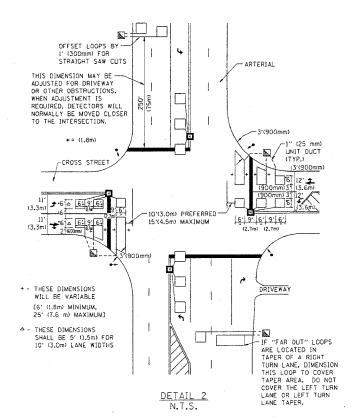
SECOND LOOP AS SHOWN.

* = (600 mm)

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

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





62855 COUNTY TOTAL SHEETS SECTION 18 12 TO STA.

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE
- * 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.

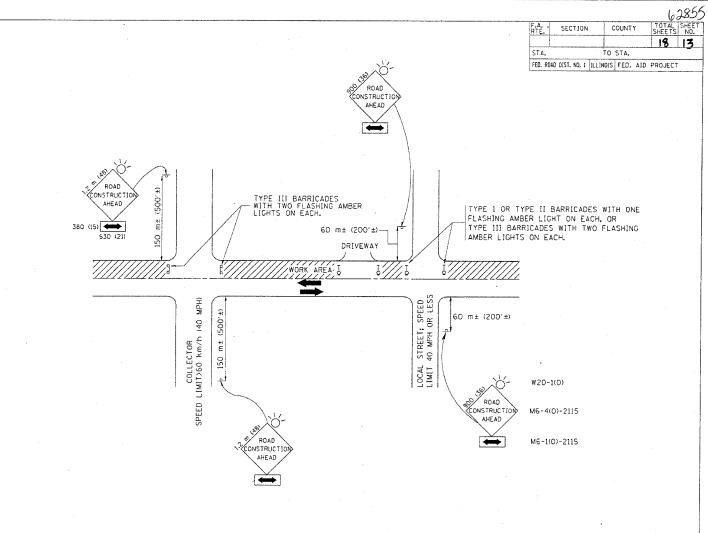
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS, "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

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.

	ILLINOIS DEPARTMENT	OF TRANSPORTATION
REVISIONS NAME DATE	DETECTO Installati	RICT 1 OR LOOP ON DETAILS RESURFACING
	SCALE: NONE DATE 10/18/2002	DRAWN BY CADD DESIGNED BY CHECKED BY R.K.F.

10/16/2002 c:\pro jects\diststd\\s07.dgn VI-T507



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

NOTES:

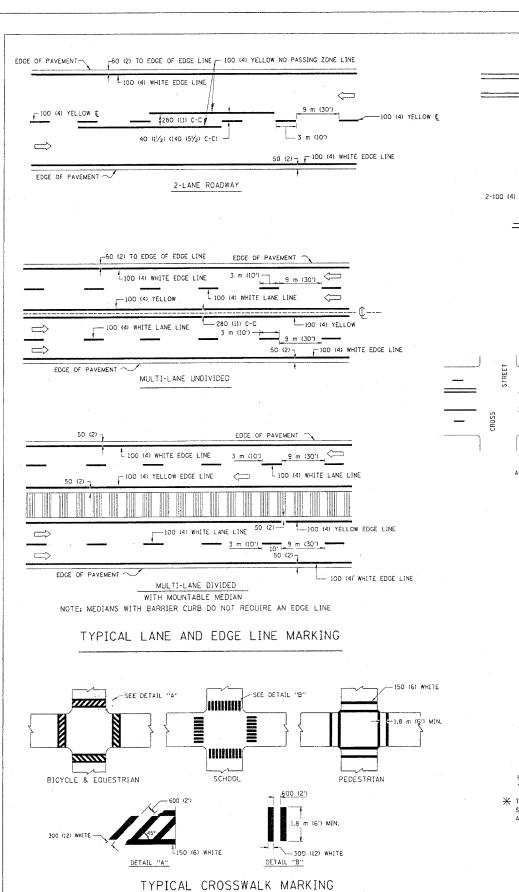
- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 60 km/h (40 MPH) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O¹ ONE **ROAD CONSTRUCTION AHEAD** SIGN 900×900 (36×36) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 60 m (200°) IN ADVANCE OF THE MAIN ROUTE.
- 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 x 1.2 m (48x48) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 150 m (500°) 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 SINCLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

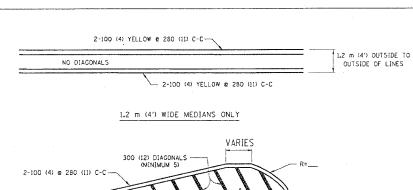
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 70150), STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL 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.

REVISIO:	NS	THE THOIS DEDAGE	MENT OF TRANSPORTATION				
NAME	DATE	ILLINOIS DEFAR	IMENI OF TRANSPORTATION				
LHA	6/89	TRAFFIC CONT	ROL AND PROTECTION				
T. RAMMACHER	09/08/94	INALITE CONT	NOL AND PROTECTION				
J. OBERLE	10/18/95		FOR				
A. HOUSEH	03/06/96	CIDE D0.00	THE BOS OF TOUR				
A, HOUSEH	10/15/96	SIDE RUADS,	INTERSECTIONS, AND				
T. RAMMACHER	01/06/00	COLVENAVO					
		DRIVEWAYS					
		SCALE: VERT. HORIZ.	DRAWN BY				
		DATE 10/18/2002	CHECKED BY				

Friday October 18,2002 @ 10:20:23 AM c:\prajects\diststd\tc10.dgn LV=35.63

REVISION DATE: 01/06/00

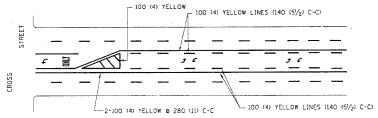




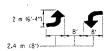
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED. USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

> 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) T0 70 km/h (45 MPH)) 45 m (150') C-C (MORE THAN 70 km/h (45 MPH))

MEDIANS OVER 1.2 m (4') WIDE

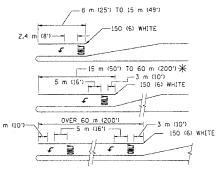


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED. WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 60 m (200") TO 90 m (300") INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

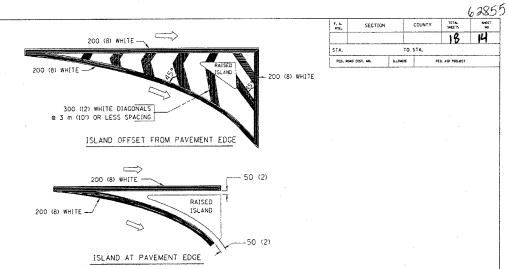


FULL SIZE LETTERS 2.4 m (8') AND ARROWS SHALL BE USED. \P AREA = 1.5 m² (15.6 SO. FT.) THEY AREA = 1.9 m² (20.8 SO. FT.)

* 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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



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	AEFFOM AEFFOM	140 (5/2) 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 (5½) 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 @ 150 (6) 300 (12) @ 45° 300 (12) @ 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 EROSSROAD 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 DIACONALS USED FOR 1.2 m (4') WIDE MEDIANS		WHITE: ONE WAY TRAFFIC	SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	200 (8) WITH 300 (12) DIACONALS @ 45°	SOLID	WHITE	DIACONALS: 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 (OVER 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":0.33m2 (3.6 SO. FT.) EACH "X":5.0 m ² (54.0 SO. FT.)
SHOULDER DIAGONALS	300 (12) e 45°	SOLID	WHITE - RIGHT ·	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) 45 m (150') C-C (0VER 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) unless otherwise shown.

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

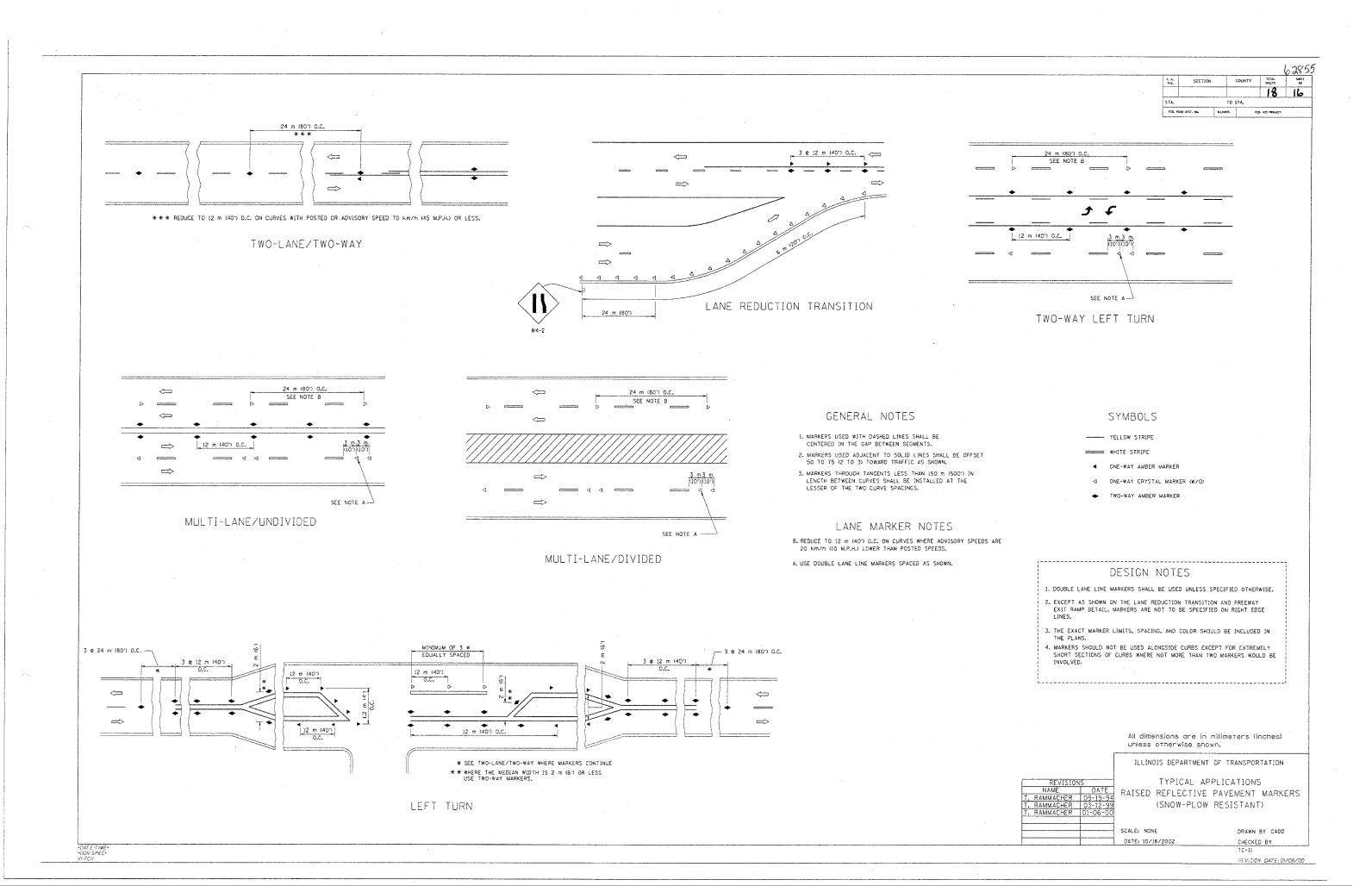
SCALE: NONE DRAWN BY CADD CHECKED BY

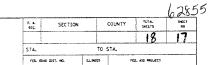
REVISION DATE: 01/06/00

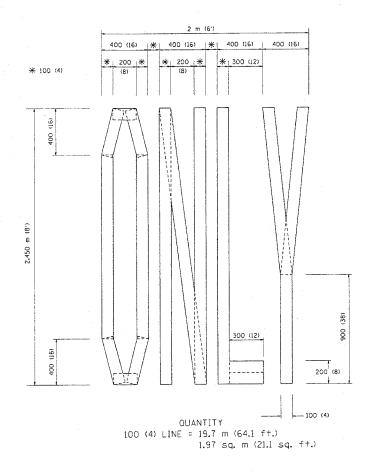
PROP. PAY LIMIT OF BIT. SURF. REMOVAL . FULL THICKNESS OF MILLING (NOTE "C") (NOTE "E") PROP. BIT. SURFACE REMOVAL -* * EXIST. PAVEMENT EXIST, PAVEMENT MILLED TEMPORARY RAMP (FOR BUTT JOINT AND BIT. TAPER SEE DETAIL BELOW) OPTION 1 VARIES PROP. BIT. SURF. CRSE. -PROF. PAY LIMIT OF BIT. SURF. REMOVAL-FULL THICKNESS OF MILLING PROP. BIT. BINDER CRSE. -SAW CUT (INCLUDED IN THE COST OF BITUMINOUS SURFACE TEMP. RAME PROP. BIT. SURFACE REMOVAL -(NOTE "E") REMOVAL - BUTT JOINT) 45 (1 3/4) FOR E AND F MIX 40 (1 1/2) FOR C AND D MIX * * EXIST. PAVEMENT 1.35 m (4.5') PAY LIMIT FOR BUTT JOINT (NOTE "D") (NOTE "F") EXIST, BIT. EXIST. PAVEMENT BITUMINOUS CONSTRUCTED TEMPORARY RAMP (FOR BUTT JOINT AND BIT, TAPER SEE DETAIL BELOW) NOTES OPTION 2 A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS. TYPICAL TEMPORARY RAMP B: MINOR SIDE ROADS. BIT. TAPER LENGTH * * * SAW CUT (INCLUDED IN THE COST OF BITUMINOUS SURFACE PROP. BIT. SURF. CRSE. REMOVAL - BUTT JOINT) PROP. BIT. BINDER CRSE. 1.35 m (4.5°) VARIES_ 45 (1 3/4) FOR E AND F MIX 40 (1 1/2) FOR C AND D MIX PAY LIMIT FOR BUTT JOINT (NOTE "D") EXIST, BIT. EXIST. PAVEMENT BUTT JOINT AND BITUMINOUS TAPER BASIS OF PAYMENT: THE BUTT JOINT WILL BE PAID FOR PER SOUARE METER (SOUARE YARD.) AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT" OR AS "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT TYPICAL BUTT JOINT AND BITUMINOUS TAPER FOR MILLING AND RESURFACING

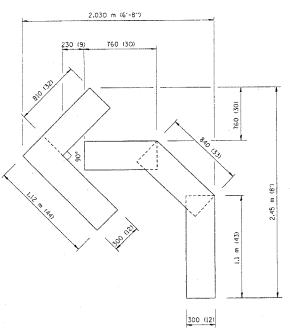
DATE-TIME *DGN-SPEC* VI-BD32

62855 COUNTY TOTAL SHEET NO SECTION TO STA. ILLINOIS FED. AID PROJECT PROP. BIT. OR P.C.C. SURFACE REMOVAL - BUTT JOINT 9.0 m (30ft.) (NOTE "'A") SAW CUT (INCLUDED IN THE COST OF BITUMINOUS SURFACE 4.5 m (15ft.) (NOTE "B") REMOVAL - BUTT JOINT) (NOTE "D") -45 (1 3/4) FOR E AND F MIX 40 (1 1/2) FOR C AND D MIX BUTT JOINT DETAIL TAPER LENGTH * * * 45 (1 3/4) FOR E AND F MIX BITUMINOUS TAPER DETAIL TYPICAL BUTT JOINT AND BITUMINOUS TAPER FOR RESURFACING ONLY * * PC CONCRETE, BITUMINOUS OR BITUMINOUS RESURFACED PAVEMENT. C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING BITUMINOUS SURFACE. D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED BITUMINOUS COURSES. E: TAPER THE TEMP. RAMP AT A RATE OF 900 (3 ff.) PER INCH OF MILLING THICKNESS. F: INSTALLATION AND REMOVAL OF THE 1.35 m (4.5') TEMP. BIT. RAMP WILL BE PAID AS "BITUMINOUS SURFACE REMOVAL - BUTT JOINT". G: SEE ARTICLE 406.18 AND 406.24 OF THE STANDARD SPECIFICATIONS FOR "BITUMINOUS AND PCC SURFACE REMOVAL, BUTT JOINT". * SEE TYPICAL SECTIONS FOR MILLING THICKNESS. * * * * 6.1 m (20") PER 25 (1) RESURFACING (NOTE "A") ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN. 3.0 m (10") PER 25 (1) RESURFACING (NOTE "B") ILLINOIS DEPARTMENT OF TRANSPORTATION BUTT JOINT AND BITUMINOUS TAPER DETAILS SCALE: NONE CHECKED BY BD400-05 (VI=BD32)

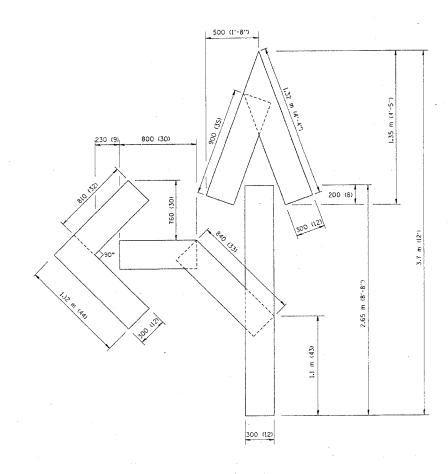








QUANTITY 100 (4) LINE = 13.9 m (45.5 ft.) 1.39 sq. m (15.2 sq. ft.)



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.

ILLINOIS DEPARTMENT OF TRANSPORTATION

REVISIONS
NAME
T. RAMMACHER 09/18/94
J. OBERLE 06/01/96
T. RAMMACHER 11/04/97
T. RAMMACHER 11/04/97
T. RAMMACHER 03/02/98

DATE PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

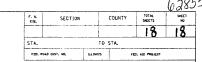
SCALE: NONE

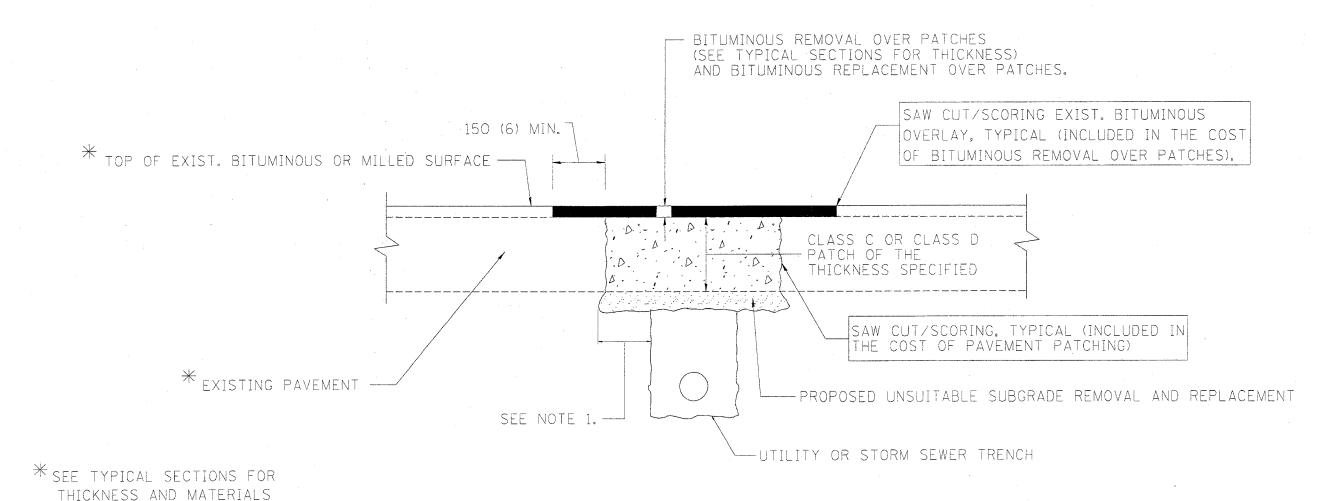
DRAWN BY CADD

CHECKED BY

Friday October 18.2002 @ 10:23:21 AM c:\projects\diststd\tc16.dgn _LV=35.63 VI-TO16

REVISION DATE: 08/28/00





NOTES:

- 1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 300 (12) WIDER ON EACH SIDE OF THE TRENCH.
- 2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE SPECIAL PROVISION "PATCHING WITH BITUMINOUS OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION

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

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR BITUMINOUS SURFACED PAVEMENT

SCALE: NONE

CHECKED BY

BD400-04 (BD-22) REVISION DATE: 04/27/98

c:\pre,jects\distsid\bdZZ.dqn LV=35,63 Friday October 18,2002 @ 09-04:45 AM VI-BD22