

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	5TS-2	WINNEBAGO	10	1

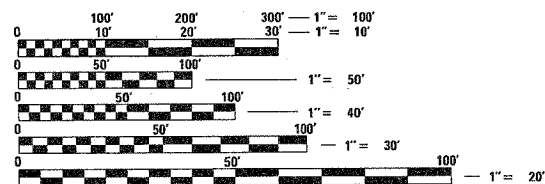
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 525 (US 20)
SECTION 5TS-2
PROJECT ACHS-0525 (111)
WINNEBAGO COUNTY

C-92-113-05

- FOR INDEX OF SHEETS**
- 1 COVER SHEET
 - INDEX OF SHEETS
 - STANDARDS
 - 2 SUMMARY OF QUANTITIES
 - 3 UTILITIES
 - 4 GENERAL NOTES
 - SIGNAL PLANS SHEETS LEGEND
 - 5 PLANS SHEETS
 - 6 CABLE DETAILS
 - 7 PAVEMENT MARKING
 - 8 DISTRICT STANDARD 94.2
 - DISTRICT STANDARD 93.2
 - 9 -10 STANDARD STANDARD 41.1

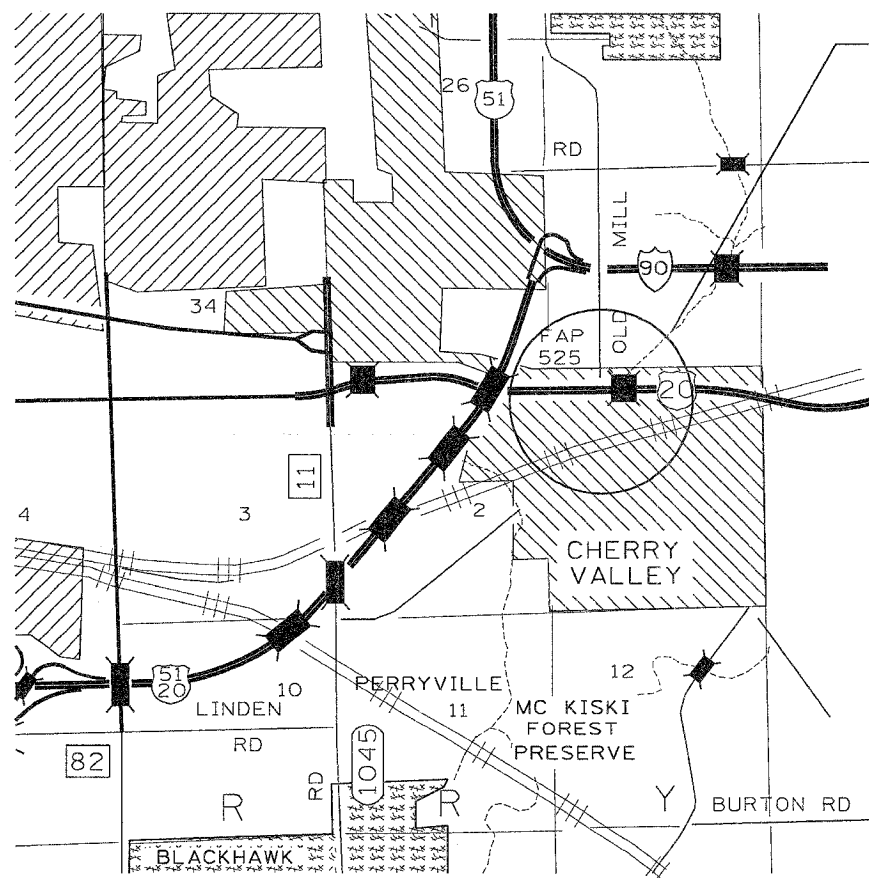
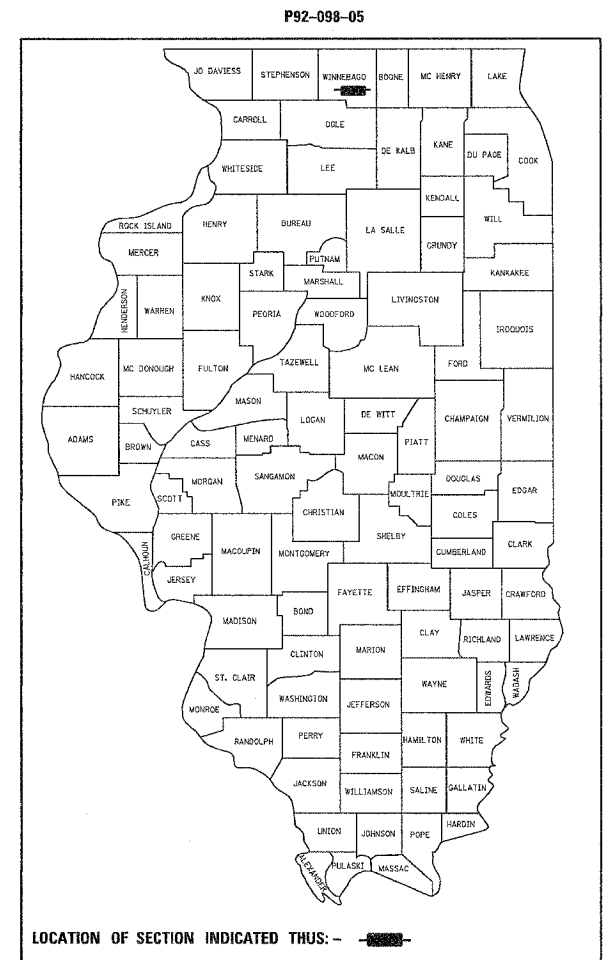
- STANDARD
- 805001 ELECTRICAL SERVICE INSTALLATION DETAILS
 - 813001-01 JUNCTION BOX
 - 814001 CONCRETE HANDHOLE
 - 814006 DOUBLE HANDHOLE
 - 878001-03 CONCRETE FOUNDATION DETAIL
 - 880006 TRAFFIC SIGNAL MOUNTING DETAILS
 - 886001 DETECTOR LOOP INSTALLATIONS
 - 886006 TYPICAL LAYOUT FOR DETECTION LOOPS
 - 701006-02 OFF-ROAD OPERATIONS 2L, 2W 4.5m(15') TO PAVEMENT
EDGE FOR SPEEDS > 45 MPH
 - 701101-01 OFF-ROAD OPERATIONS, MULTILANE LESS THAN 4.5m
(15') AWAY FOR SPEEDS > 45 MPH
 - 701301-02 LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
 - 701426-02 LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING
OPERATIONS, FOR SPEEDS > 45 MPH
 - 701501-03 URBAN LANE CLOSURE 2L, 2W UNDIVIDED
 - 701701-04 URBAN LANE CLOSURE MULTILANE INTERSECTION
 - 702001-05 TRAFFIC CONTROL DEVICES
 - 780001-01 TYPICAL PAVEMENT MARKING



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

CONTRACT NO. 64B35



PROJECT LOCATION
US 20 WITH MILL RD
CHERRY VALLEY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED SEPT 15 20 05

Angela Marts
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 14, 20 05
Mike Hine
ENGINEER OF DESIGN AND ENVIRONMENT

October 14, 20 05
Eric E. Horn
DEPUTY DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	STS-2	WINNEBAGO	10	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

Y031-1F
90% FED.
10% STATE

PAY CODE	ITEM	UNIT	TOTAL
67100100	MOBILIZATION	L SUM	1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	124
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1179
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	458
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	192
80400105	ELECTRIC SERVICE INSTALLATION, SPECIAL	EACH	1
81300220	JUNCTION BOX STAINLESS STEEL ATTACHED TO STRUCTURE, 6'X6'X4"	EACH	2
81400400	CONCRETE HANDHOLE	EACH	2
81400600	CONCRETE DOUBLE HANDHOLE	EACH	1
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C No. 10	FOOT	1612
85000300	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLTION	L SUM	1
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL No. 14 2 C	FOOT	495
87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL No. 14 3 C	FOOT	1027
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL No. 14 5 C	FOOT	3090
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL No. 14 7 C	FOOT	916
87301515	ELECTRIC CABLE IN CONDUIT, LEAD-IN No. 18 3 PR	FOOT	722
87301815	ELECTRIC CABLE IN CONDUIT, SERVICE No. 6 3 C	FOOT	60
87502460	TRAFFIC SIGNAL POST, GALVANIZED STEEL 12 FT	EACH	2
87800100	CONCRETE FOUNDATION, TYPE A	FOOT	6

Y031-1F
90% FED.
10% STATE

PAY CODE	ITEM	UNIT	TOTAL
87800200	CONCRETE FOUNDATION, TYPE D	FOOT	3
87900200	DRILL EXISTING HANDHOLE	EACH	12
88200400	TRAFFIC SIGNAL BACKPLATE, FORMED PLASTIC	EACH	4
88500500	INDUCTION LOOP DETECTOR AMPLIFIER	EACH	6
88600100	DETECTOR LOOP TYPE 1	FOOT	592
89502380	REMOVE EXISTING HANDHOLE	EACH	2
89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2
X0322674	STROBE LIGHT	EACH	2
X0323153	ELECTRIC CABLE IN CONDUIT, GROUND, No. 6/1C (GREEN)	FOOT	664
X0324264	SIGNAL HEAD, LED, RETOFIT	EACH	12
X0324885	CONDUIT INSTALLED, 1" NON-METALLIC	FOOT	36
X0324886	CONDUIT INSTALLED, 1 1/4" NON-METALLIC	FOOT	42
X0324887	CONDUIT INSTALLED, 2 1/2" NON-METALLIC	FOOT	29
X0324888	CONDUIT INSTALLED, 4" NON-METALLIC	FOOT	388
X0656300	PAVEMENT REMOVAL AND REPLACEMENT	SQYD	5
X0962500	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	L SUM	1
X8801300	SIGNAL HEAD, POLYCARBONATE, ^{LED} 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1
X8801310	SIGNAL HEAD, POLYCARBONATE, ^{LED} 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	4
X0324942	GROUT REMOVAL AND REPLACEMENT	EACH	4

* SPECIALTY ITEMS

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SCALE: VERT. HORIZ. DATE
DRAWN BY		CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	STS-2	WINNEBAGO	10	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

NOTE:

ADVANCE FLASHER CONTOLLERS ARE TO BE REMOVED, THE POWER FOR ADVANCE FLASHERS WILL RUN FROM TRAFFIC SIGNAL CONTROLLER CABINET FOR EACH OF MAINLINE LEGS.

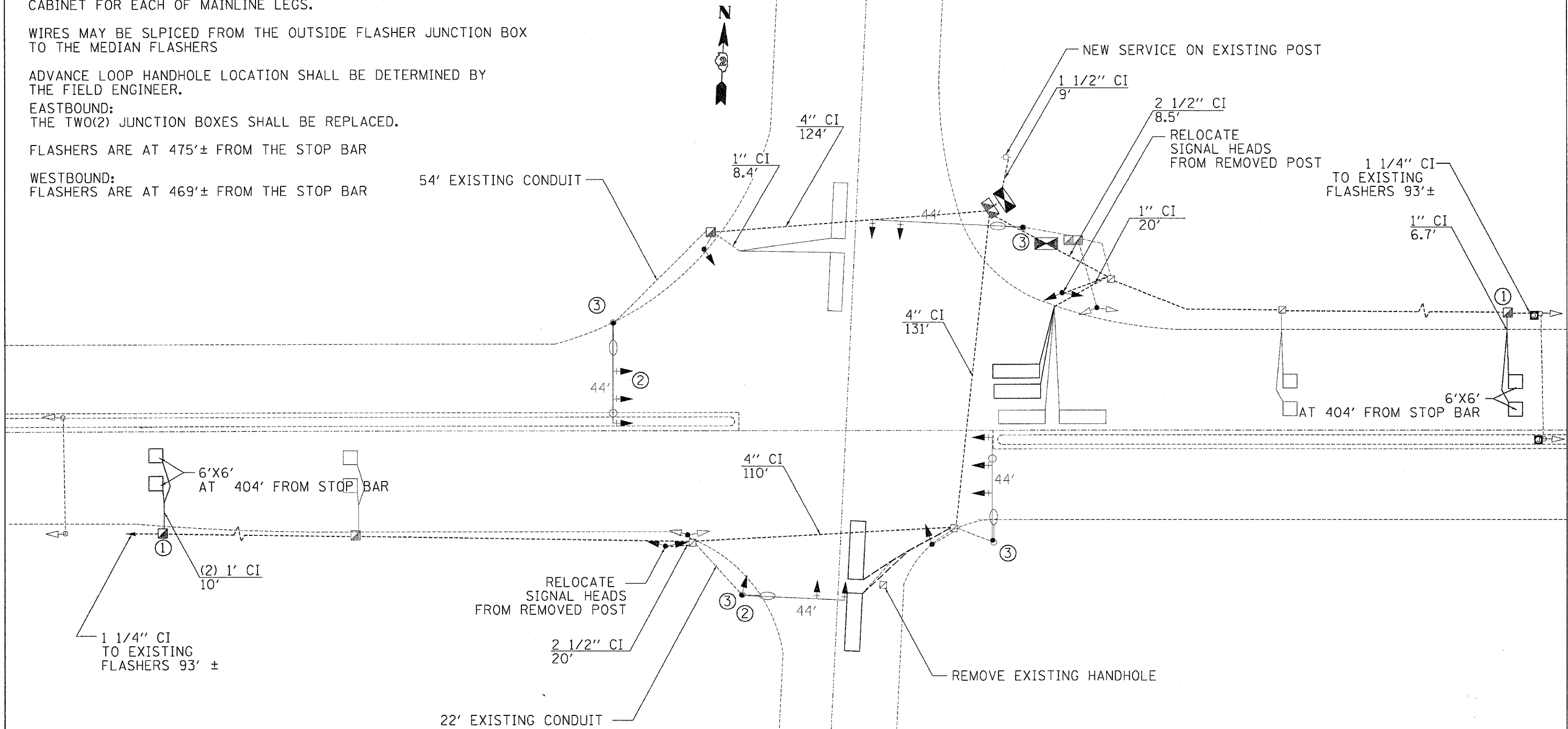
WIRES MAY BE SLPICED FROM THE OUTSIDE FLASHER JUNCTION BOX TO THE MEDIAN FLASHERS

ADVANCE LOOP HANDHOLE LOCATION SHALL BE DETERMINED BY THE FIELD ENGINEER.

EASTBOUND:
THE TWO(2) JUNCTION BOXES SHALL BE REPLACED.

FLASHERS ARE AT 475'± FROM THE STOP BAR

WESTBOUND:
FLASHERS ARE AT 469'± FROM THE STOP BAR



- ① REPLACE SPLICE FAR ADVANCE
PLACE NEW HANDHOLE IN LINE WITH EXISTING PVC
- ② NEW 3-SETION HEAD
- ③ GROUT REMOVAL AND REPLACEMENT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

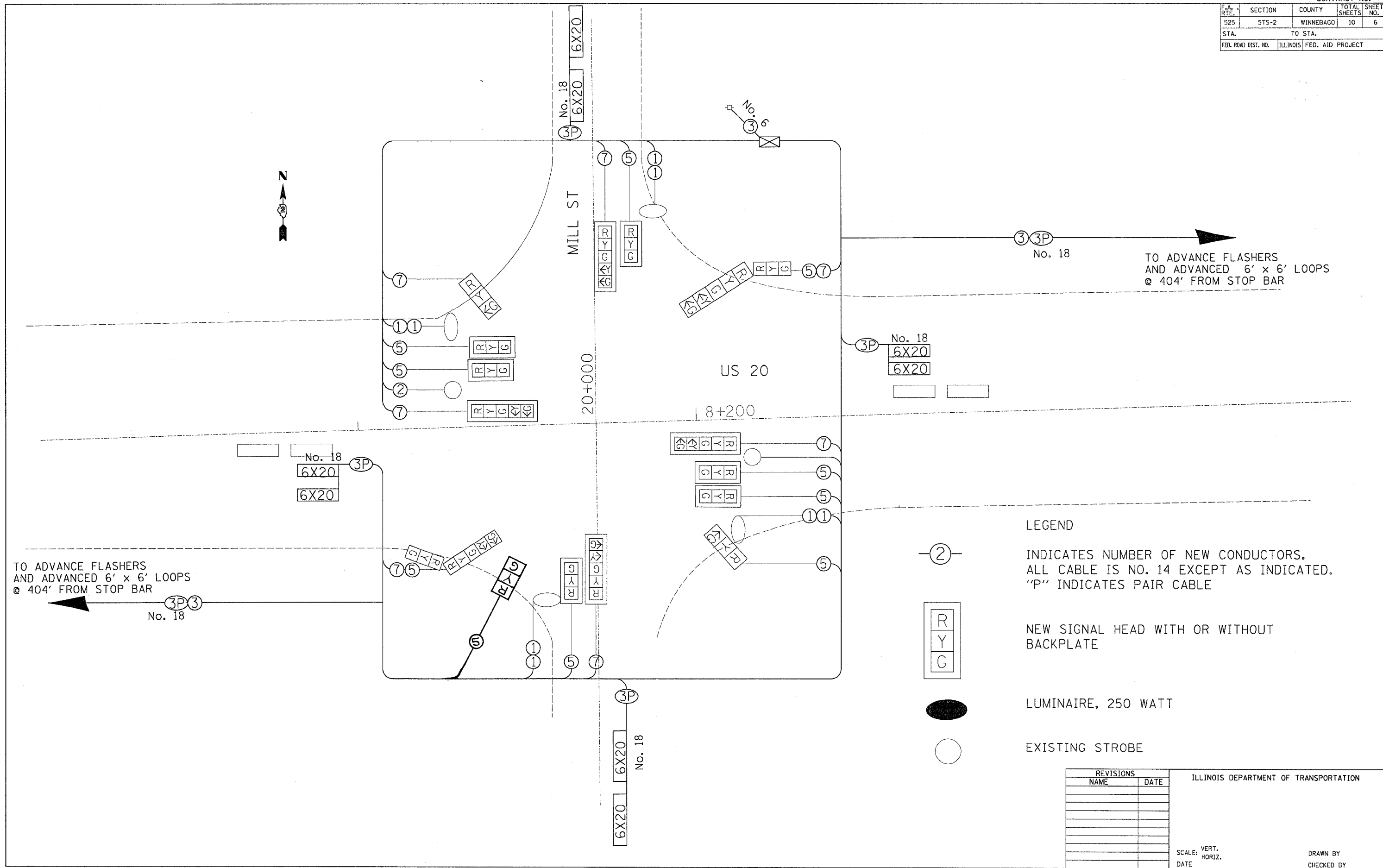
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DATE

DRAWN BY / CHECKED BY

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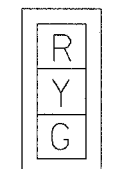
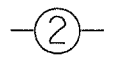
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525	5T5-2	WINNEBAGO	10	6
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TO ADVANCE FLASHERS AND ADVANCED 6' x 6' LOOPS @ 404' FROM STOP BAR

TO ADVANCE FLASHERS AND ADVANCED 6' x 6' LOOPS @ 404' FROM STOP BAR

LEGEND
 INDICATES NUMBER OF NEW CONDUCTORS. ALL CABLE IS NO. 14 EXCEPT AS INDICATED. "P" INDICATES PAIR CABLE



NEW SIGNAL HEAD WITH OR WITHOUT BACKPLATE

LUMINAIRE, 250 WATT

EXISTING STROBE

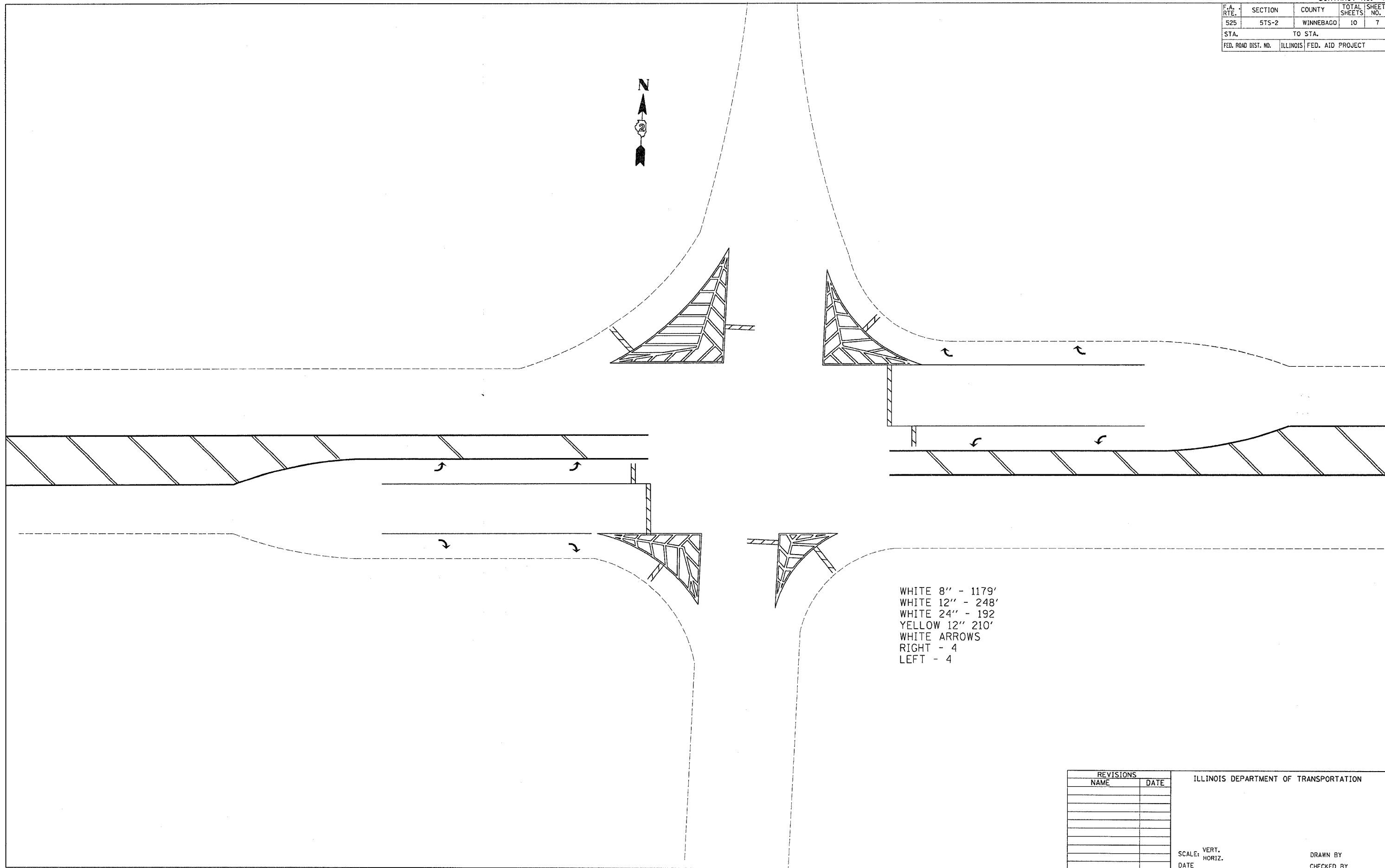
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NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

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525	5TS-2	WINNEBAGO	10	7
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



WHITE 8" - 1179'
 WHITE 12" - 248'
 WHITE 24" - 192'
 YELLOW 12" 210'
 WHITE ARROWS
 RIGHT - 4
 LEFT - 4

PLOT DATE = Thu Sep 15 14:08:12 2005
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

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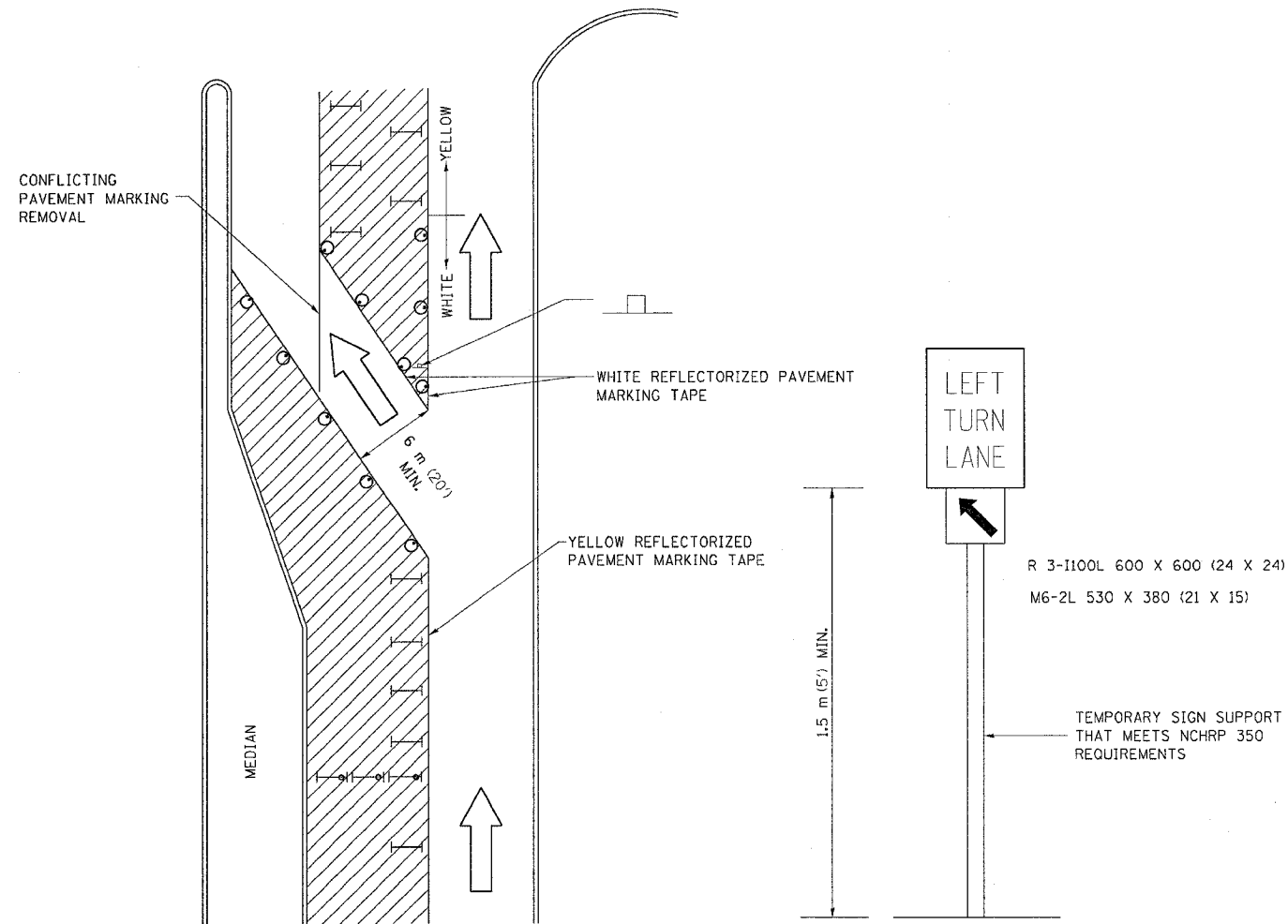
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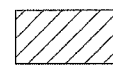
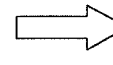
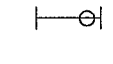


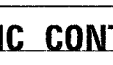
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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



LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE OR DRUM WITH FLASHING BURNING LIGHT
-  DRUM OR BARRICADE WITH STEADY BURN LIGHT
-  SIGN (SEE DETAIL)
-  TYPE I OR II CHECK BARRICADE WITH STEADY LIGHT BURN

GENERAL NOTES

CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 710 (28) IN HEIGHT.

STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS WILL BE MONODIRECTIONAL.

REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.

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" R3-100 600 x 600 (24 X 24) AND M6-2R 530 X 380 (21 X 15) SHALL BE USED.

THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.

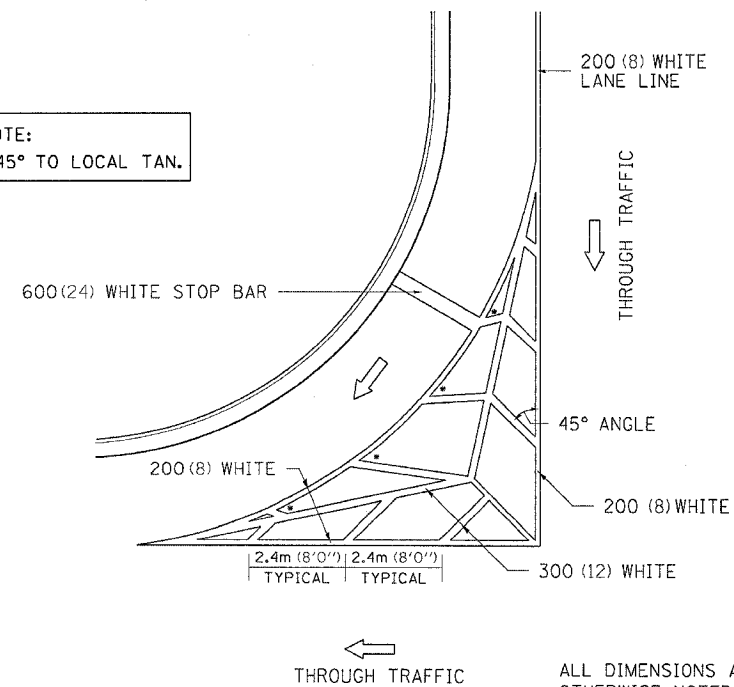
LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



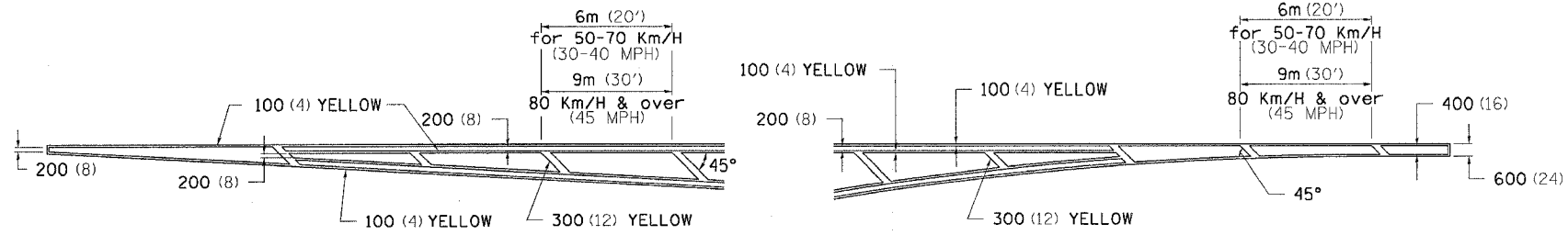
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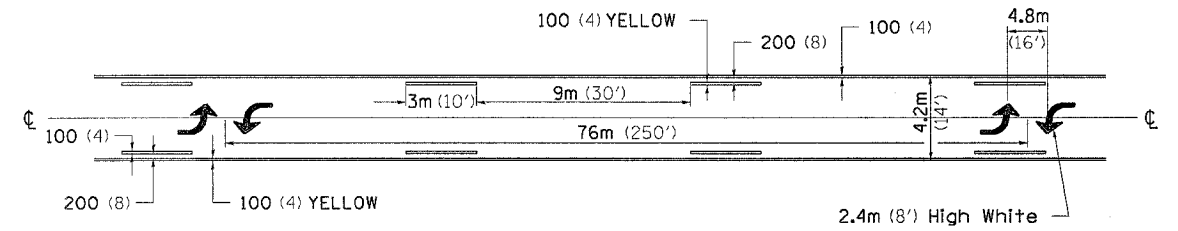
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525	STS-2	WINNEBAGO	10	9
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TYPICAL PAVEMENT MARKINGS

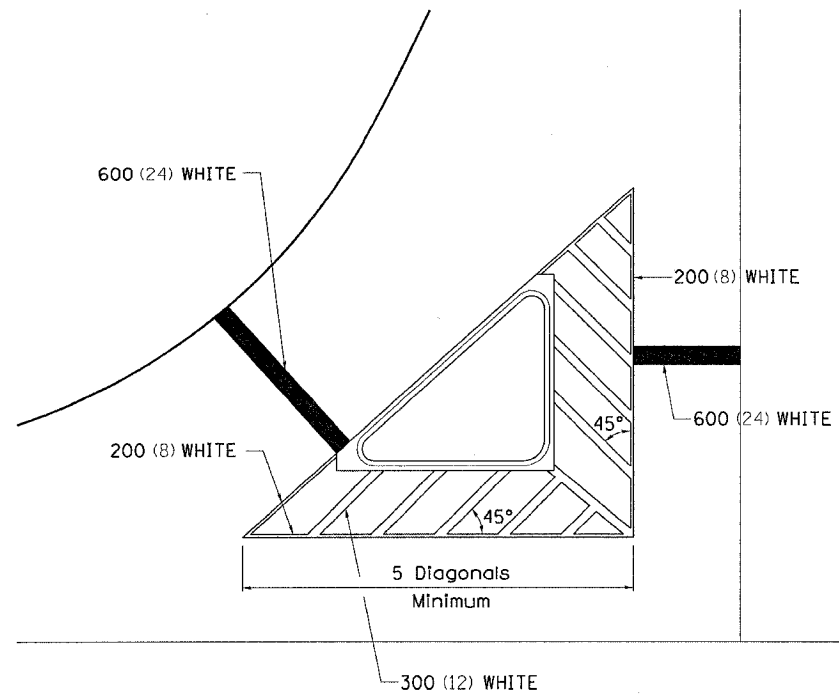
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



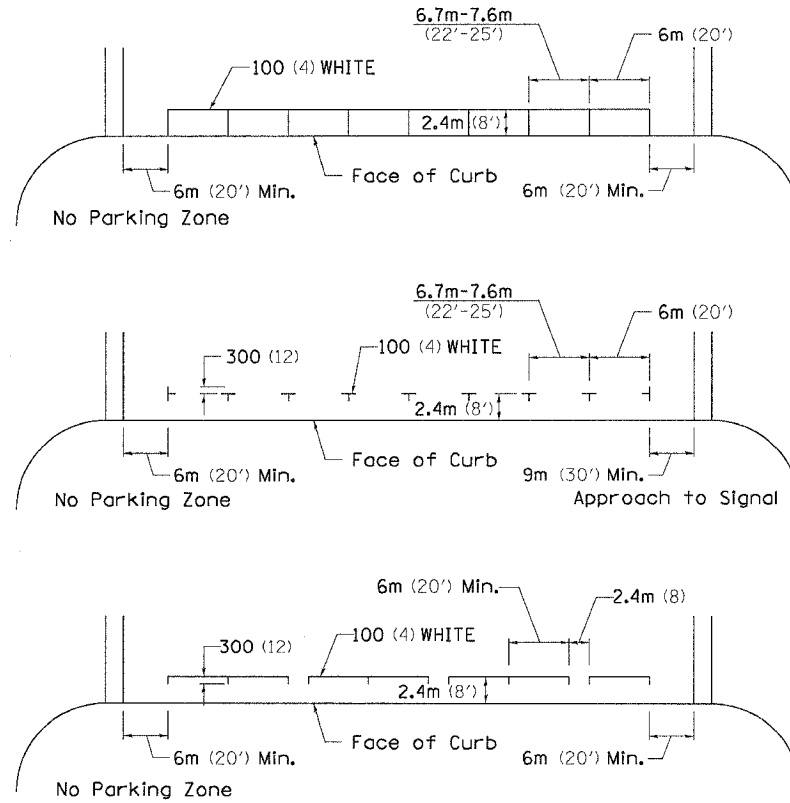
MEDIAN PAVEMENT MARKING



TYPICAL ISLAND OFFSET SHOULDER WIDTH



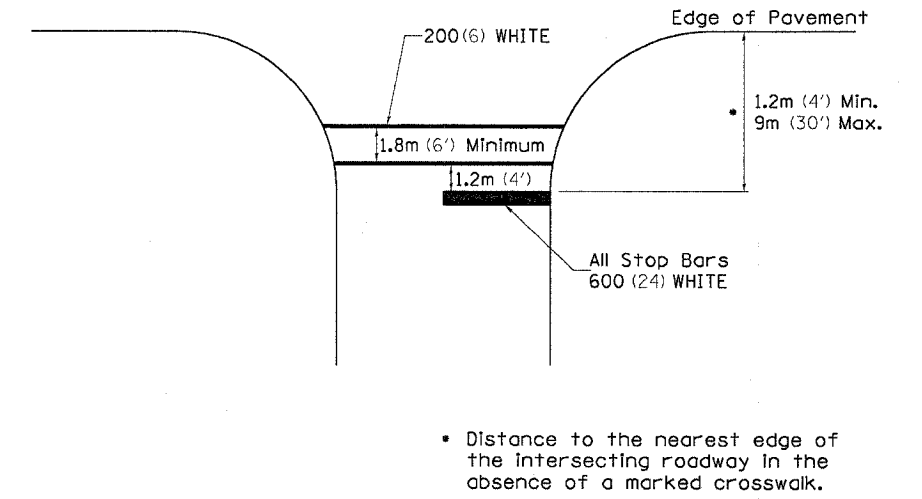
TYPICAL PARKING SPACING



•• ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

STANDARD CROSSWALK MARKING

See Schedules for Locations

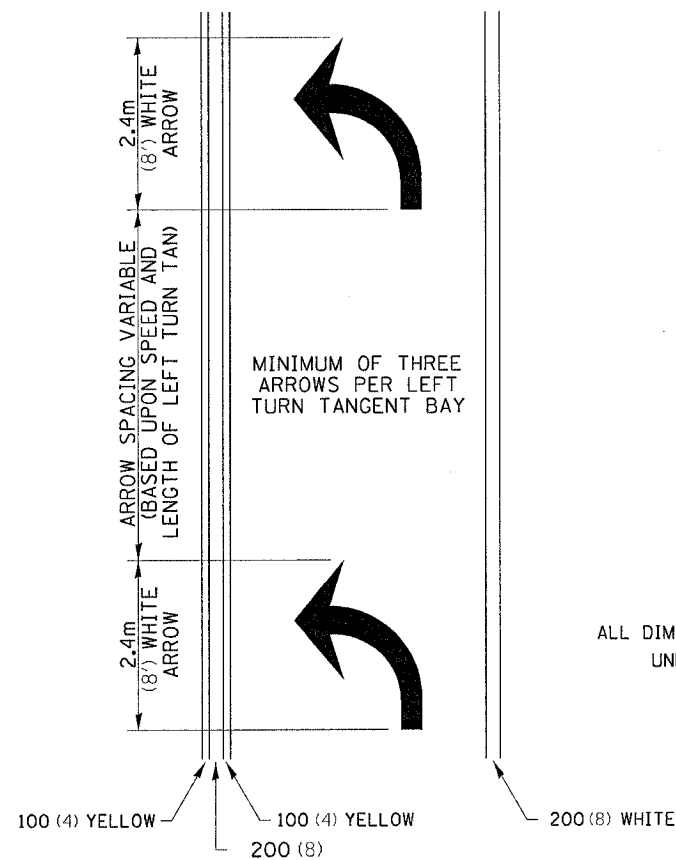


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SCALE: 1/16" = 1' / 1/8" = 1'
REFERENCE: SEE PLAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	STS-2	WINNEBAGO	10	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT



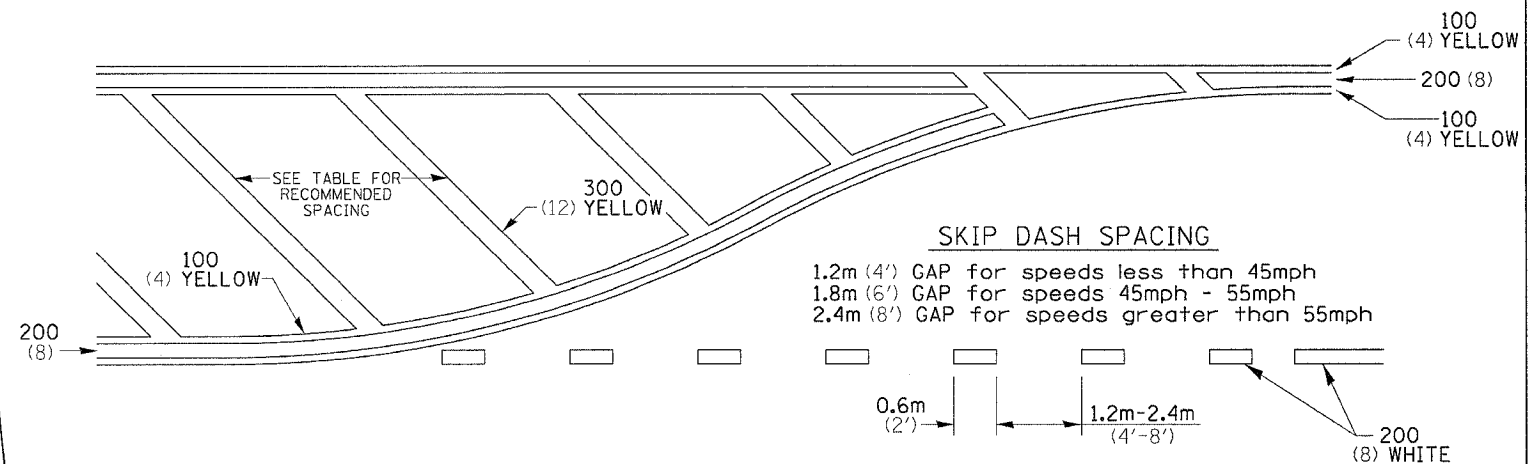
- ▲ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

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

12.2m
6 at (40') O.C.
APPROACH SIDE ONLY

See Typical Drawing at right

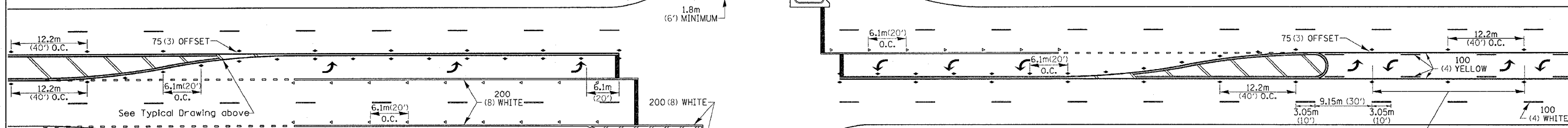
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

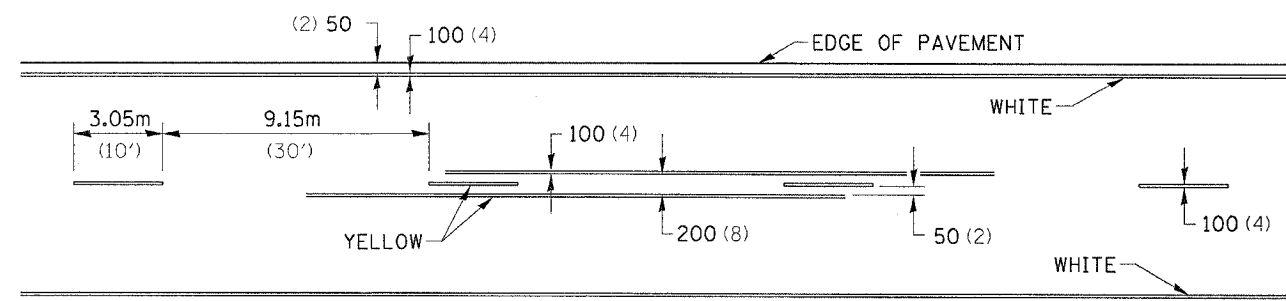
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



MINIMUM OF TWO PAIRS OF ARROWS. ADDITIONAL PAIRS EVERY 200'-300'.

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



SYMBOLS

See Typical Drawing above

12.2m
6 at (40') O.C.
APPROACH SIDE ONLY

- REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.
- USE DOUBLE MARKERS WHEN ADT ≥ 25,000

MULTI-LANE / UNDIVIDED

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