

FOR INDEX OF SHEETS

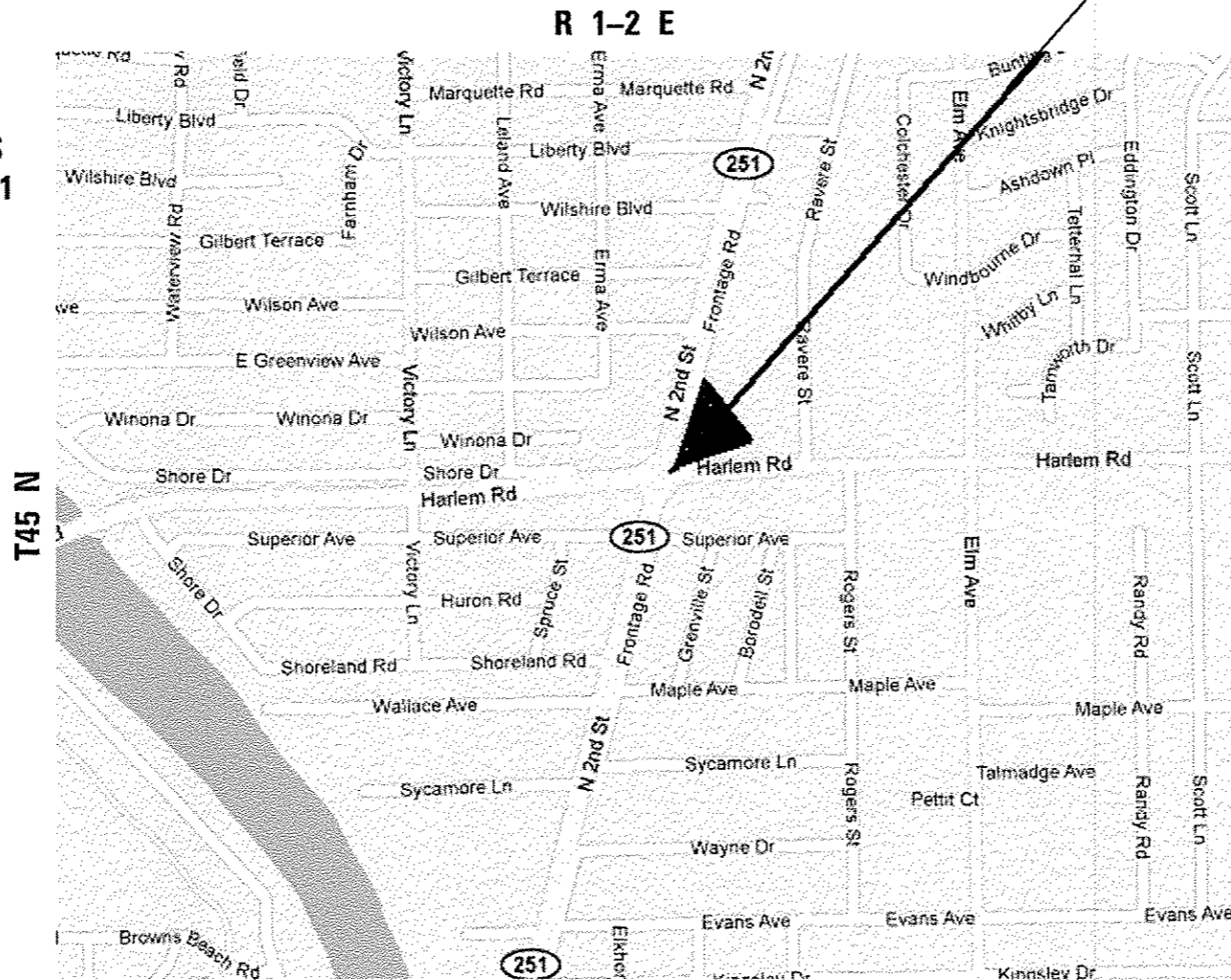
- 1. COVER SHEET
- INDEX OF SHEETS
- 2. SUMMARY OF QUANTITIES
- 3. UTILITIES
- 4. PLANS
- 5. CABLE DETAILS
- SIGNAL REPLACEMENT
- 6. SIGN DETAIL
- 7. PAVEMENT MARKING DETAILS
- 8. - 10. DISTRICT STANDARD 41.1

PLANS FOR PROPOSED SIGNAL UPGRADE

FAP 303 ROUTE IL 251
PROJECT HSP - 0303 (061)
SECTION 3TS-4
WINNEBAGO COUNTY

CONTRACT 64L78
C 92-111-16
D 92-099-16

LOCATION OF PROJECT
IL 251 AT HARLEM RD
MACHESNEY PARK



STANDARDS

- 701101-05
- 701106-02
- 701426-09
- 701601-09
- 701701-10
- 701901-06
- 720001-01
- 857001-01
- 880006-01

HARLEM TWP. - SEC. 30-31

CONTRACT 64L78

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

PROJECT ENGINEER SCOTT KULLERSTRAND 815-284-5468

DESIGN KRISTINE HILL 815-284-5476

DISTRICT 2 - REGION 2
DIXON, ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 1-24-2017
Kevin Marchek
REGIONAL ENGINEER

Mar 24 2017
Dawn M. Adams, PE
ENGINEER OF DESIGN AND ENVIRONMENT

Mar 24 2017
Director of Program Development

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

RECEIVED

MAR 31 2017

BUREAU OF
DESIGN & ENVIRONMENT

015 12 111

SUMMARY OF QUANTITIES

URBAN 0021

90110
FEP/ STATE

| PAY CODE | ITEM | UNIT | TOTAL QUANTITY |
|------------|--|---------|----------------|
| 67100100 | MOBILIZATION | L SUM | 1 |
| 70102630 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701601 | L SUM | 1 |
| 70102635 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 | L SUM | 1 |
| * 72000100 | SIGN PANEL - TYPE 1 | SQ FT | 10 |
| * 78008300 | POLYUREA PAVEMENT MARKING TYPE II - LETTERS AND SYMBOLS | SQ FT | 211 |
| * 78008310 | POLYUREA PAVEMENT MARKING TYPE II - LINE 4" | FOOT | 5462 |
| * 78008330 | POLYUREA PAVEMENT MARKING TYPE II - LINE 6" | FOOT | 1218 |
| * 78008340 | POLYUREA PAVEMENT MARKING TYPE II - LINE 8" | FOOT | 293 |
| * 78008350 | POLYUREA PAVEMENT MARKING TYPE II - LINE 12" | FOOT | 217 |
| * 78008370 | POLYUREA PAVEMENT MARKING TYPE II - LINE 24" | FOOT | 255 |
| X 0327980 | PAVEMENT MARKING REMOVAL - WATER BLASTING | SQ FOOT | 1924 |
| 85000200 | MAINTENANCE OF EXISTING TRAFFIC SIGNALS INSTALLATION | EACH | 1 |
| 89502210 | MODIFY EXISTING CONTROLLER CABINET | EACH | 1 |
| 88040070 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 2 |
| 88040090 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 2 |
| 88200100 | TRAFFIC SIGNAL BACKPLATE | EACH | 2 |
| X8570010 | CONTROLLER, TRAFFIC SIGNAL | EACH | 1 |
| X8950305 | REMOVE EXISTING SIGNAL HEAD | EACH | 4 |

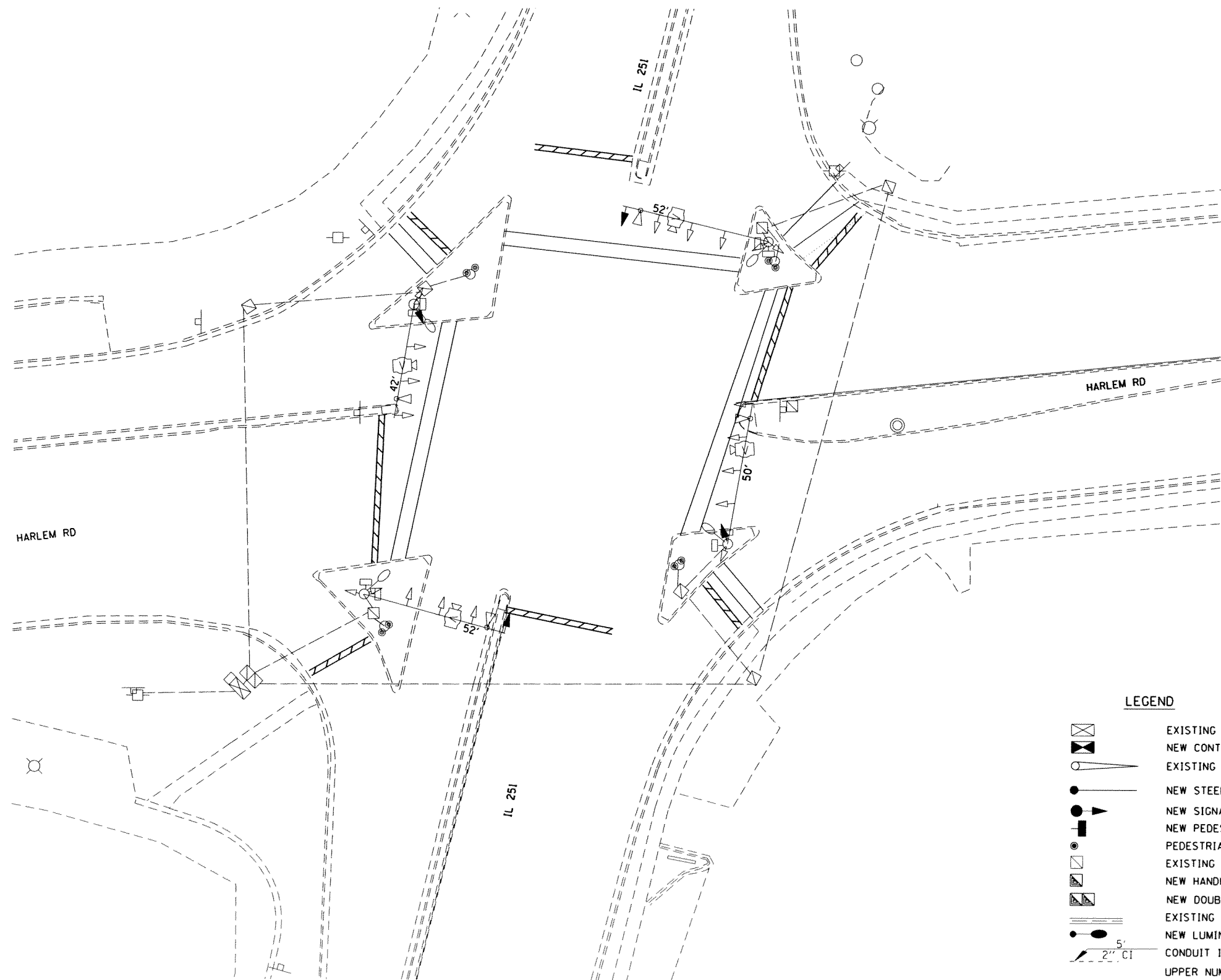
* SPECIALTY ITEMS

| | | | | | | | | | | | |
|---|--|--|--|---|--|---------------------------------|--------------------------|------------------------------------|---------------------|--------------------|----------------|
| FILE NAME : P:\Projects\Contract 64L78 IL 251 at Har | USER NAME : Contract 64L78 plan.dgn | DESIGNED : DRAWN : CHECKED : DATE : | REVISED : REVISED : REVISED : REVISED : | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | IL 251 AT HARLEM RD SUMMARY OF QUANTITIES | | F.A.R. RTE: 303 | SECTION 31S-4 | COUNTY WINNEBAGO | TOTAL SHEETS 10 | SHEET NO. 2 |
| PLOT SCALE : 1/8" = 1'-0" | | | | | SCALE: _____ | SHEET NO. _____ OF _____ SHEETS | STA. _____ TO STA. _____ | ILLINOIS FED. AID PROJECT 64L78 | | | |

REV

UTILITIES

| NAME | TYPE | TELEPHONE | JULIE MEMBER |
|---|------------------|--------------|---------------------|
| MR. ADAM SADKOWSKI COMMONWEALTH EDISON COMPANY 123 ENERGY AVE ROCKFORD, IL 61109 | ELECTRIC | 815-985-4043 | YES 800-892-0123 |
| MR. HECTOR GARCIA AT&T 1000 COMMERCE DRIVE OAK BROOK, IL 60523 | TELEPHONE | 630-573-5465 | YES 800-892-0123 |
| MR BRUCE KOPPANG NICOR GAS CO 1844 FERRY ROAD NAPERVILLE IL 60563-9600 | GAS | 630-388-3046 | YES 800-892-0123 |
| MR. EDWARD RICE NORTH PARK PUBLIC WATER DIST. 1350 TURRET DR. MACHESNEY PARK, IL 61115 | WATER | 815-633-5461 | NO 815-633-5461 |
| MR. DANA CARROLL ROCK RIVER WATER RECLAMATION DISTRICT 3501 KISHWAUKEE ST. ROCKFORD, IL 61126-7480 | SEWER | 815-387-7400 | YES 800-892-0123 |
| MR. MIKE OWENS COMCAST 4450 KISHWAUKEE ST ROCKFORD, IL 61109 | CATV | 224-229-3037 | YES 800-892-0123 |
| MR. PAUL SHEPPARD VILLAGE OF MACHESNEY PARK 300 ROOSEVELT RD. MACHESNEY PARK, IL 61111 | WATER & SEWER | 815-877-5432 | YES 800-892-0123 |
| MR. DEVEN BARNHILL WINDSTREAM 1901 N. ROSELLE RD. SCHAUMBURG, IL 60115 | TELEPHONE | 815-592-3395 | YES 800-892-0123 |
| MR. LANCE SANDY IFIBER 3100 SYCAMORE ROAD DEKALB, IL 60115 | COMMUNICATIONS | 815-753-6075 | |
| MR. JUSTIN FRENCH LIGHTCORE 1151 CENTURYTEL DRIVE, BLDG A WENTZVILLE, MO 63385 | COMMUNICATIONS | 636-887-4755 | YES 800-892-0123 |
| WISCONSIN INDEPENDENT NETWORK 800WISCONSIN ST., BLDG D02, SUITE 219 EAU CLAIRE, WI 54703 | COMMUNICATIONS | 715-832-3750 | YES 800-892-0123 |



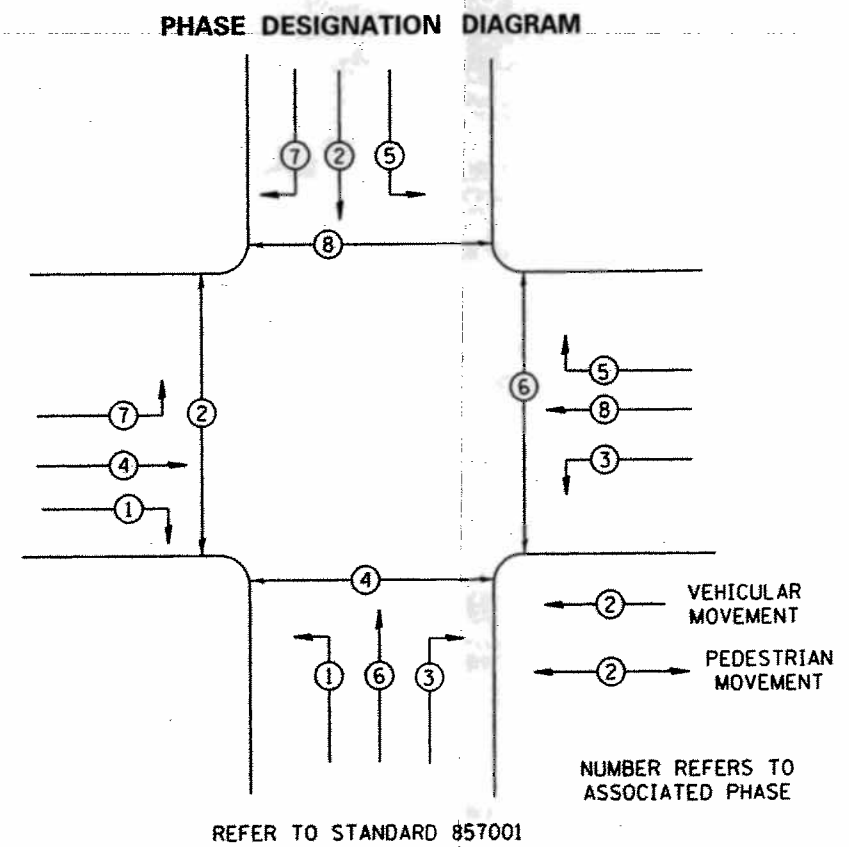
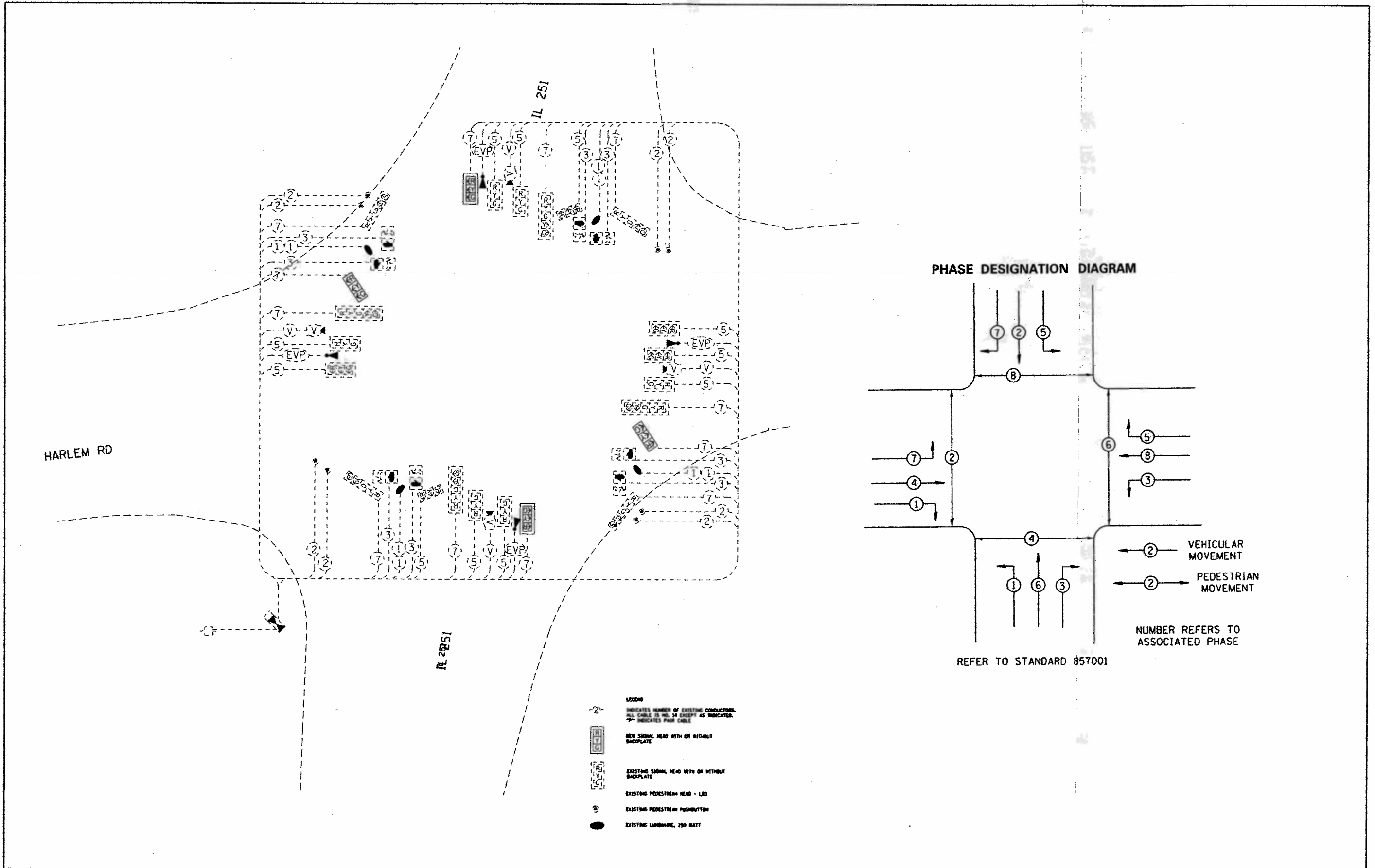
NOTE:

1. THE NORTH AND SOUTH LEGS ARE BEING CHANGED TO PROTECTED LEFT TURNING MOVEMENT BY CHANGING OUT THE 5 SECTION SIGNAL HEADS TO 3 SECTION LEFT TURN SIGNAL HEADS. THE HOUSE WILL BE BLACK TO MATCH THE EXISTING EQUIPMENT.
2. THE CONTROLLER CABINET NEEDS TO BE MODIFIED TO REFLECT THIS PROTECTED LEFT TURN MOVEMENT.
3. THE CONTROLLER IN THE EXISTING SHALL BE REMOVE AND REPLACED WITH A NEW CONTROLLER. THIS WORK WILL BE DONE UNDER PAYCODE "CONTROLLER TRAFFIC SIGNAL".

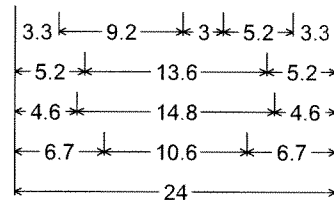
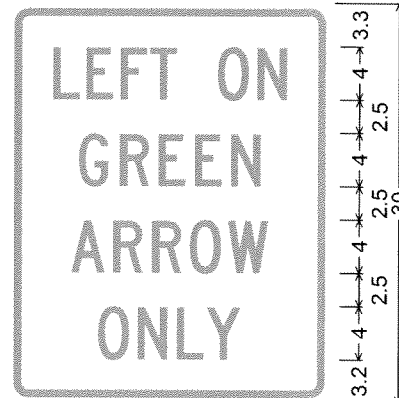
LEGEND

- EXISTING CONTROLLER
- NEW CONTROLLER
- EXISTING ALUMINUM MAST ARM ASSEMBLY AND POLE
- NEW STEEL MAST ARM ASSEMBLY AND POLE
- NEW SIGNAL HEAD AND POST WITH OR WITHOUT BACKPLATE
- NEW PEDESTRIAN HEAD
- PEDESTRIAN PUSHBUTTON
- EXISTING HANDHOLE
- NEW HANDHOLE
- NEW DOUBLE HANDHOLE
- EXISTING CONDUIT (LENGTH AND SIZE)
- NEW LUMINAIRE
- CONDUIT INSTALLED
- UPPER NUMERAL INDICATES LENGTH
- VIDEO CAMERA DETECTION SYSTEM
- EMERGENCY VEHICLE PRIORITY SYSTEM

| | | | | | | | | | | | |
|---|----------------------------|------------|---------------------------|---|--|--------------------------|---------------------------|---------|--------|-----------------|--------------|
| FILE NAME : P:\Projects\Contract 64L78 IL 251 at Har | USER NAME = ml1kl | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | IL 251 AT HARLEM PLAN SHEET | | F.A.P. RTE: | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | am\Contract 64L78 plan.dgn | DRAWN - | REVISED - | | 303 | 31S-4 | WINNEBAGO | 10 | 4 | | |
| PLOT SCALE = 42.2832' / 1" in. | CHECKED - | REVISED - | CONTRACT NO. 64L78 | | | | ILLINOIS FED. AID PROJECT | | | | |
| PLOT DATE = Jan-17-2017 08:44:13 AM | DATE - | REVISED - | SCALE: | | SHEET NO. ___ OF ___ SHEETS | STA. _____ TO STA. _____ | | | | | |



| | | | | | | | | | | | |
|--|------------------------------------|------------|-----------|---|--|---------------------|---------------|---------|--------------------|--------------|-----------|
| FILE NAME + | USER NAME + mlkl | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | IL 251 AT HARLEM RD | | F.A.P. RTE. - | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| P:\Projects\Contract 64L78 IL 251 at Har | Contract 64L78 plan.dgn | DRAWN - | REVISED - | | CABLE PLAN - SIGNAL REPLACEMENT | | 303 | IS3-d | WINNEBAGO | 10 | 5 |
| | PLOT SCALE = 43.1957' / in. | CHECKED - | REVISED - | | SCALE: | SHEET NO. OF SHEETS | STA. | TO STA. | CONTRACT NO. 64L78 | | |
| | PLOT DATE = Jan-12-2017 8:45:04 AM | DATE - | REVISED - | | ILLINOIS FED. AID PROJECT | | | | | | |



R10-5_24x30;

1.5" Radius, 0.6" Border, 0.4" Indent, Black on White;

[LEFT ON] C 2K specified length;

[GREEN] C 2K specified length;

[ARROW] C 2K specified length;

[ONLY] C 2K specified length;

Table of letter and object lefts.

| | | | | | |
|-----|-----|-----|------|------|------|
| L | E | F | T | O | N |
| 3.3 | 5.7 | 8.3 | 10.5 | 15.5 | 18.5 |

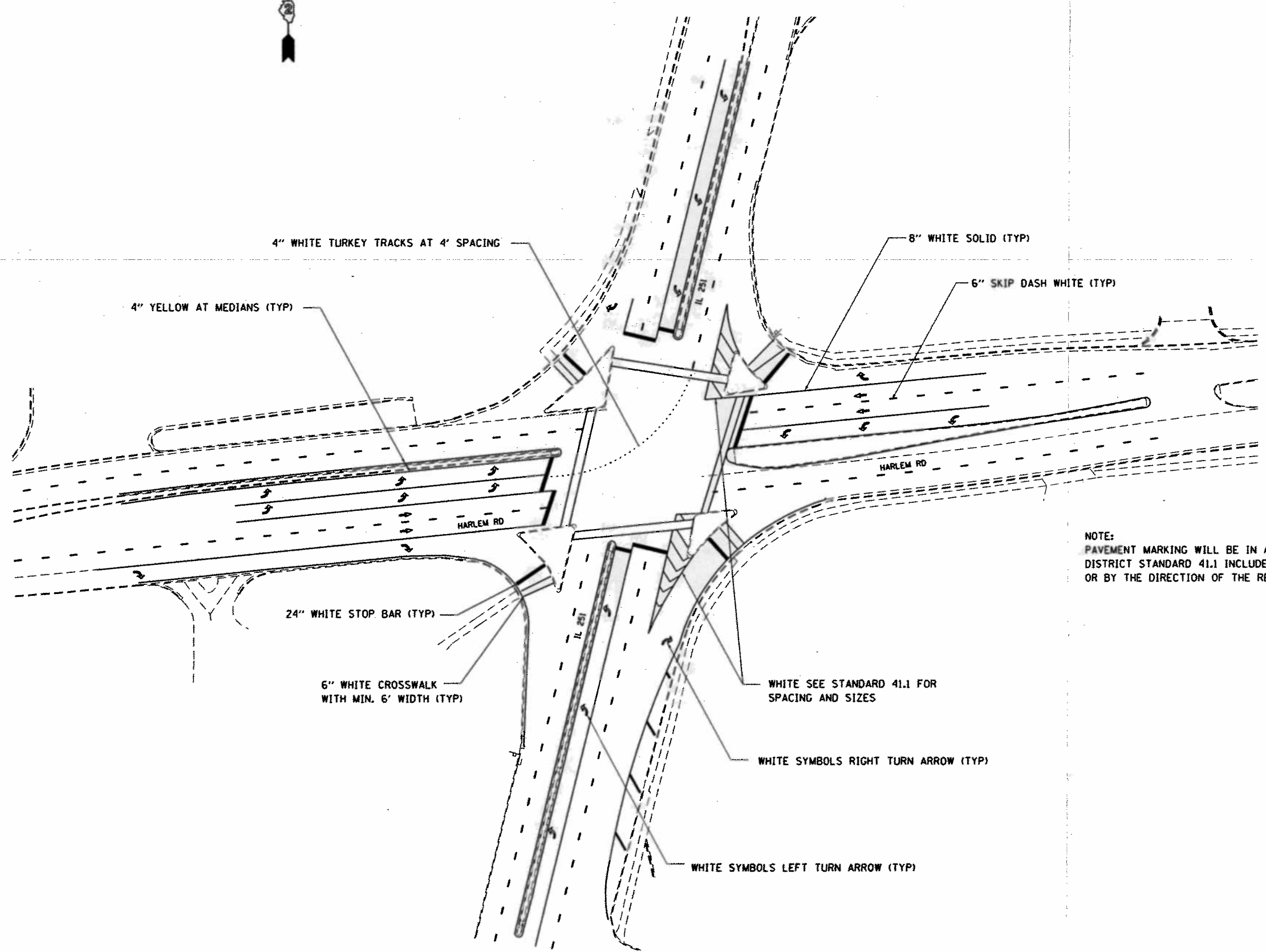
| | | | | |
|-----|-----|------|------|------|
| G | R | E | E | N |
| 5.2 | 8.2 | 11.1 | 13.8 | 16.5 |

| | | | | |
|-----|-----|------|------|------|
| A | R | R | O | W |
| 4.6 | 7.7 | 10.7 | 13.5 | 16.3 |

| | | | |
|-----|-----|------|------|
| O | N | L | Y |
| 6.7 | 9.6 | 12.5 | 14.8 |

2 SIGNS REQUIRED

| | | | | | | | | | | |
|---|---|-----------------------------------|---|---|--|--------------------|---------------|---------------------------|-----------------|-------------|
| FILE NAME : F:\Projects\Contract 64L78 IL 251 at Har | USER NAME : hllk1 em\Contract 64L78 plan.dgn | DESIGNED : _____ DRAWN : _____ | REVISED : _____ REVISED : _____ | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | IL 251 AT HARLEM RD SIGN DETAIL | F.A.P. RTE: 303 | SECTION 31S-4 | COUNTY WINNEBAGO | TOTAL SHEETS 10 | SHEET NO. 6 |
| PLOT SCALE : 43.1557' / in. | CHECKED : _____ | REVISOR : _____ | SCALE: _____ SHEET NO. _____ OF _____ SHEETS STA. _____ TO STA. _____ | | | CONTRACT NO. 64L78 | | ILLINOIS FED. AID PROJECT | | |
| PLOT DATE : Jan-12-2017 8:51:55 AM | DATE : _____ | REVISOR : _____ | | | | | | | | |



NOTE:
PAVEMENT MARKING WILL BE IN ACCORDANCE WITH
DISTRICT STANDARD 41.1 INCLUDED IN THESE PLANS
OR BY THE DIRECTION OF THE RESIDENT ENGINEER

| | | | |
|--|-------------------------------------|------------|-----------|
| FILE NAME = | USER NAME = h11k1 | DESIGNED - | REVISED - |
| P:\Projects\Contract 64L78 IL 251 at Har | am\Contract 64L78 plan.dgn | DRAWN - | REVISED - |
| Default | PLOT SCALE = 78.8422' / in. | CHECKED - | REVISED - |
| | PLOT DATE = Jan-12-2017 09:52:05 AM | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

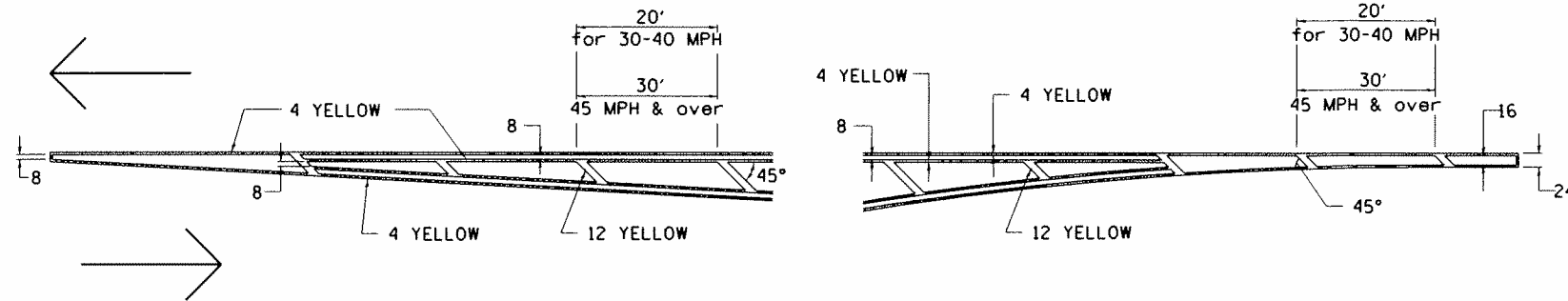
**IL 251 AT HARLEM RD
PAVEMENT MARKING DETAILS**

SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____

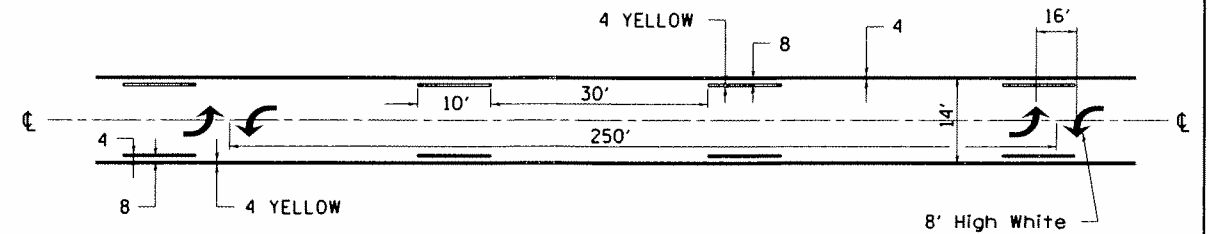
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|-----------|--------------|--------------------|
| 303 | 315-4 | WINNEBAGO | 10 | 7 |
| | | | | CONTRACT NO. 64L78 |
| ILLINOIS FED. AID PROJECT | | | | |

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

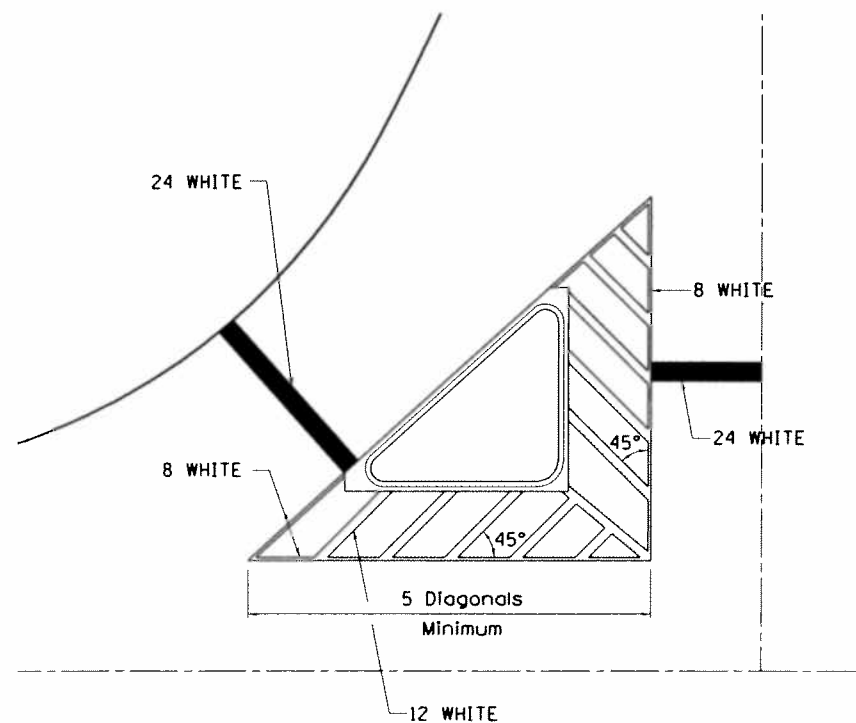


MEDIAN PAVEMENT MARKING



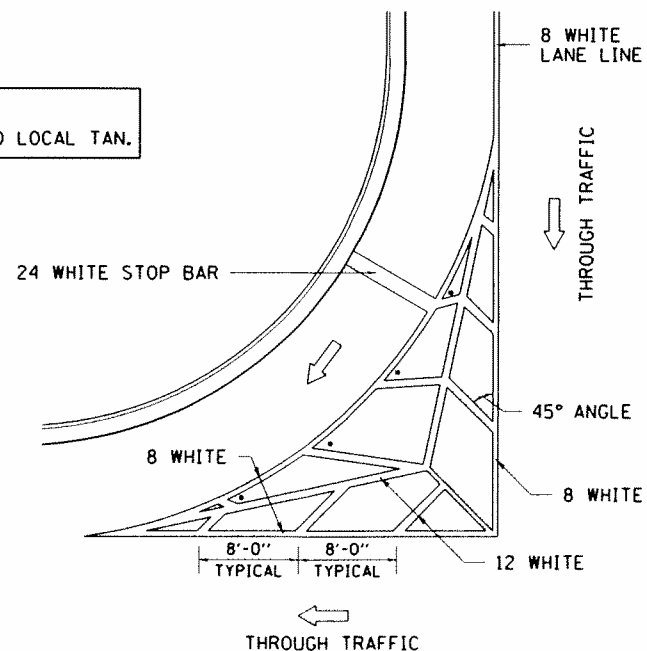
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



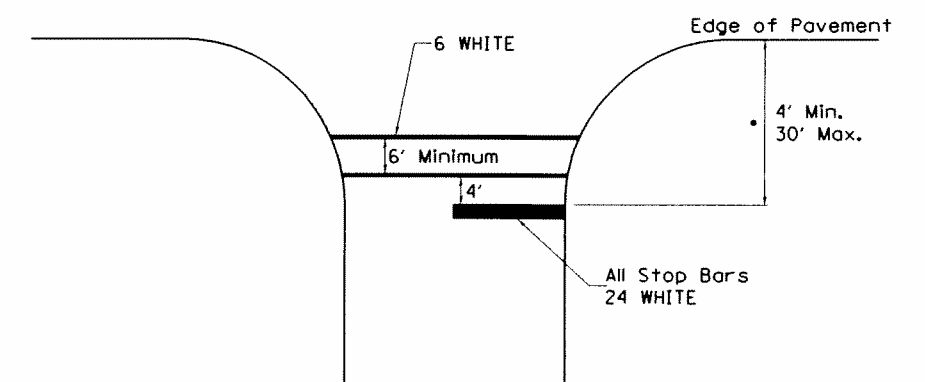
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations

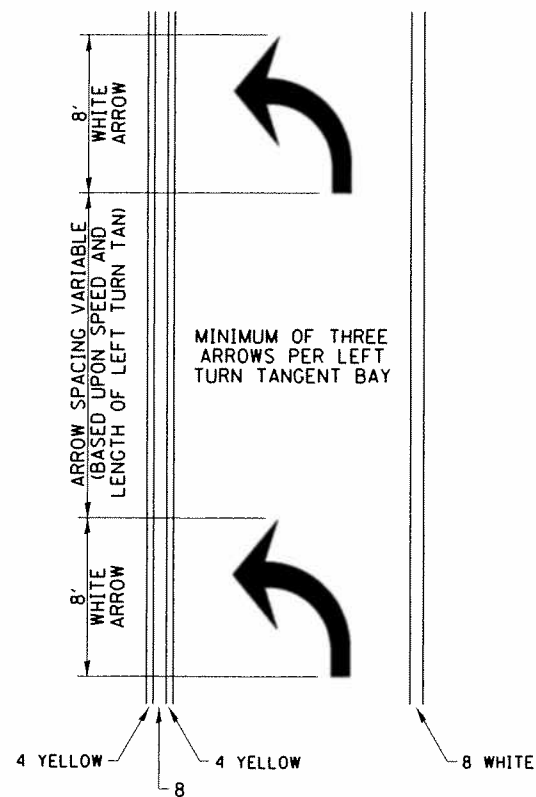


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

| | | | | | | | | | | | |
|--|----------------------------|------------|-------------------|---|---------------------------------------|---|-----------|-----------|----------------|-------------|--|
| FILE NAME = | USER NAME = rhlk1 | DESIGNED - | REVISED - 6-27-14 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | REGION 2 / DISTRICT 2 STANDARD | F.A.P. RTE. = | SECTION = | COUNTY = | TOTAL SHEETS = | SHEET NO. = | |
| P:\Projects\Contract 64L78 IL 251 at Har | am\Contract 64L78 plan\dgn | DRAWN - | REVISED - 3-05-12 | | | 303 | 3TS-4 | WINNEBAGO | 10 | 8 | |
| PLOT SCALE = 41,9100' / in. | | CHECKED - | REVISED - | | | FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT | | | | | |
| PLOT DATE = Jan-12-2017 09:52:19 AM | | DATE - | REVISED - | | | CONTRACT NO. 64L78 | | | | | |

TYPICAL PAVEMENT MARKINGS

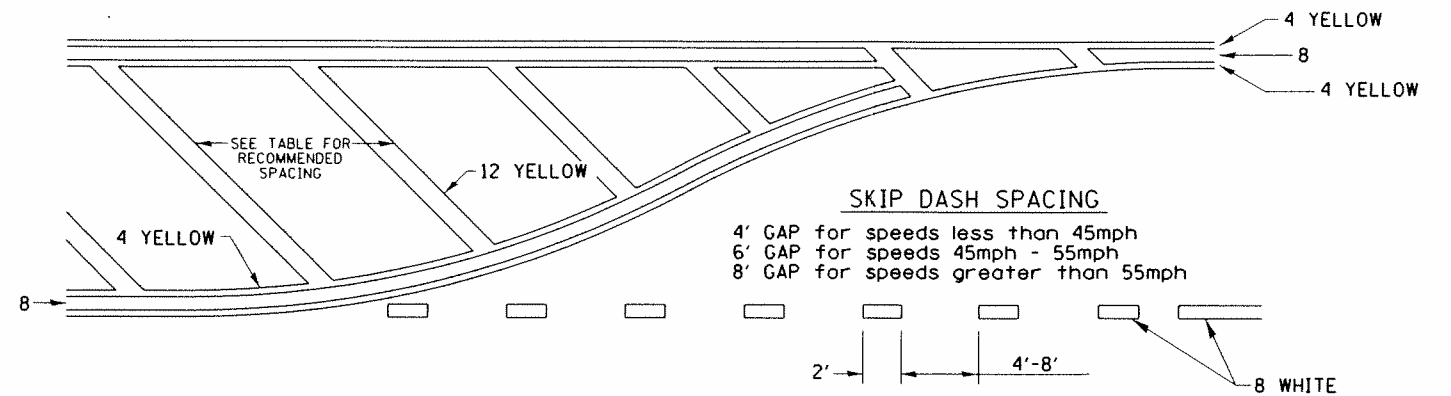
ARROW LAYOUT



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

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

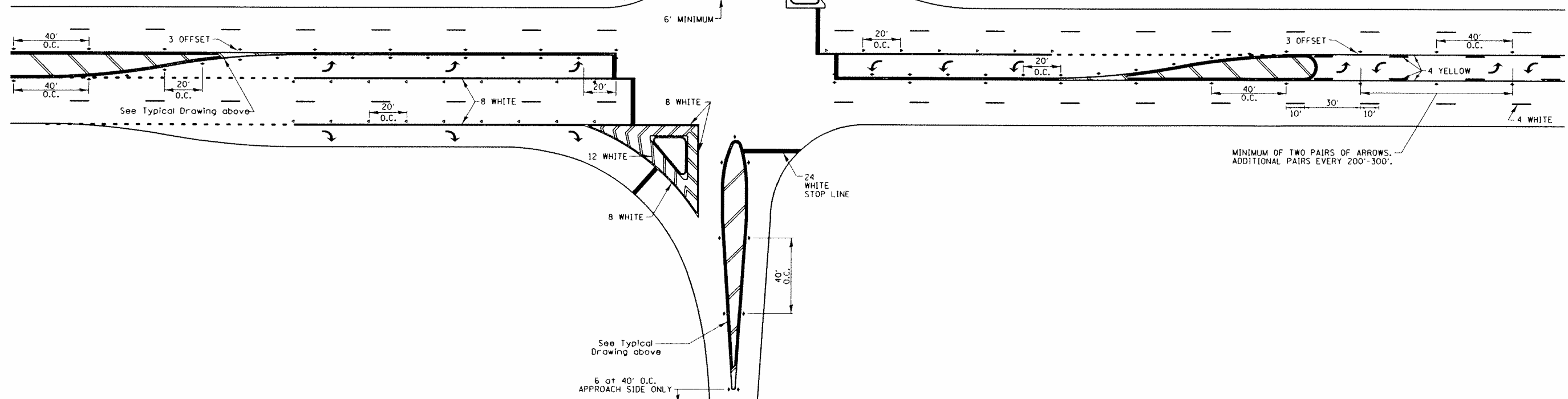
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

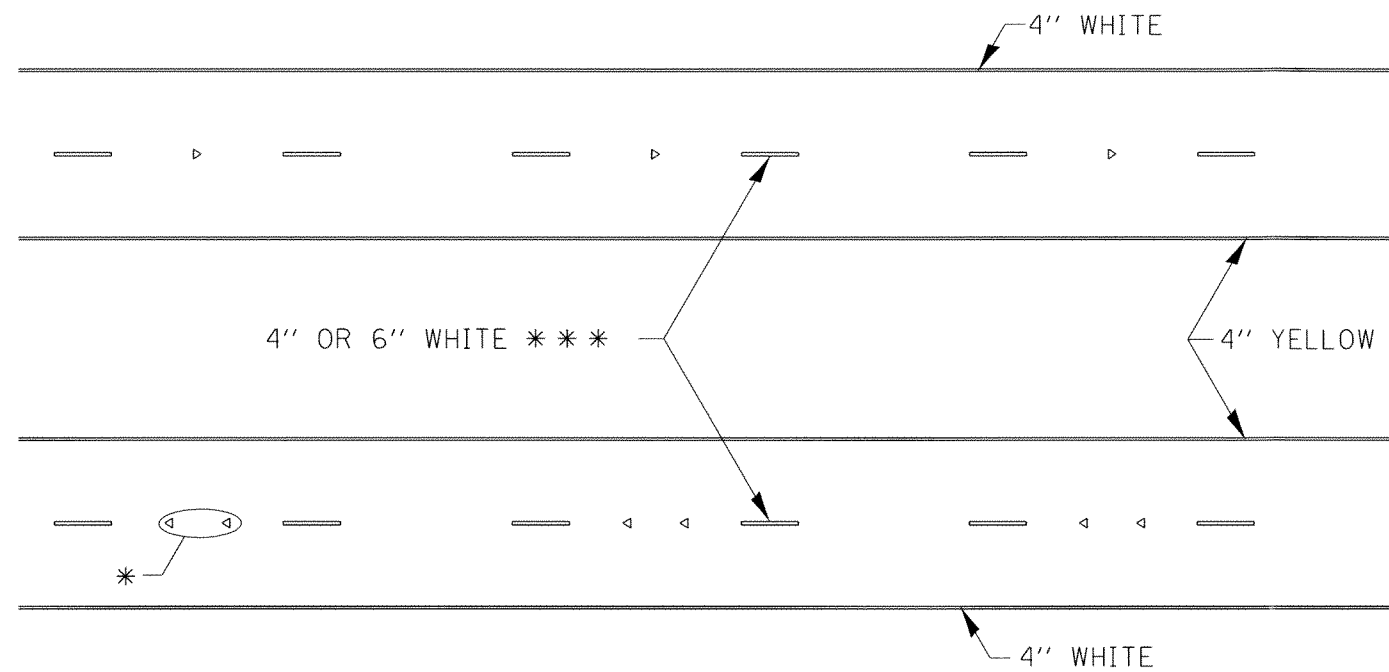
| Speed Limit Range | Continuous Median Area | Intersection Channelization | Objects (Islands) |
|-------------------|------------------------|-----------------------------|-------------------|
| less than 30MPH | 50' | 15' | 10' |
| 30-40MPH | 75' | 20' | 15' |
| 45MPH & over | 75' | 30' | 20' |

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.



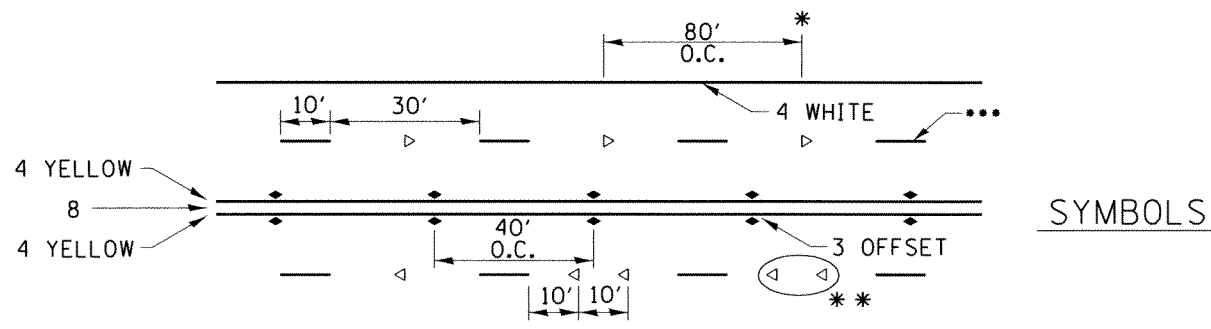
| | | | | | | | | | | | |
|--|-------------------------------------|------------|-------------------|---|---------------------------------------|---|---------|-----------|--------------|-----------|--|
| FILE NAME = | USER NAME = hiki | DESIGNED - | REVISED - 6-27-14 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | REGION 2 / DISTRICT 2 STANDARD | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| P:\Projects\Contract 64L78 IL 251 at Har | em\Contract 64L78 plan\dgn | DRAWN - | REVISED - 3-05-12 | | | 303 | 318-4 | WINNEBAGO | 10 | 9 | |
| | PLOT SCALE = 4L9100 1/4 in. | CHECKED - | REVISED - | | | CONTRACT NO. 64L78 | | | | | |
| | PLOT DATE = Jan-12-2017 09:52:29 AM | DATE - | REVISED - | | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | |

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT > 20,000.

MULTI-LANE / DIVIDED

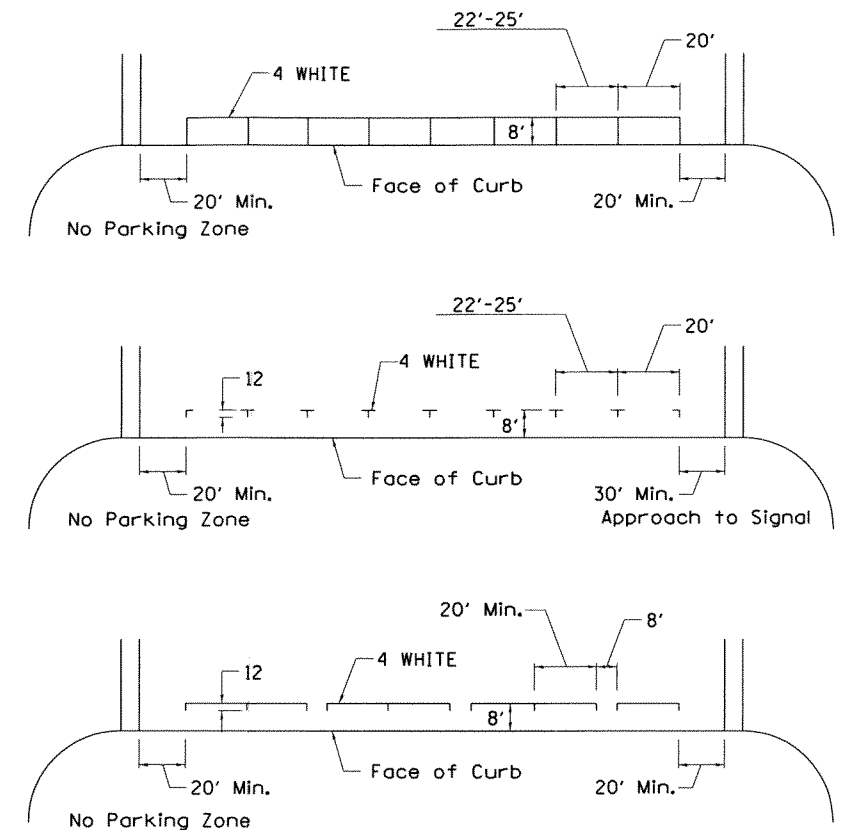


- REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.
- USE DOUBLE MARKERS WHEN ADT ≥ 20,000
- CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

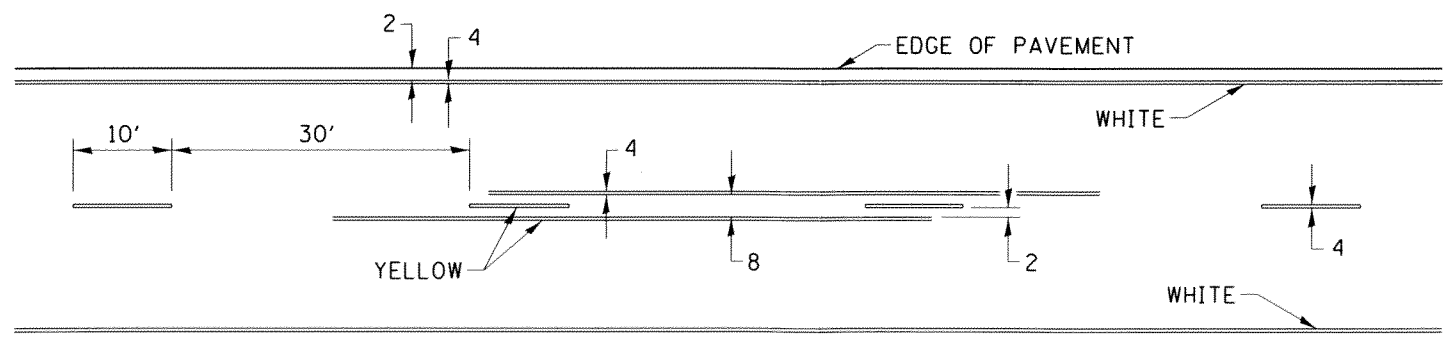
MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS
DETAIL NOT HIGHWAY STANDARD 781001)

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



| | | | | | | | | | | | |
|--|-------------------------------------|------------|--------------------|---|---------------------------------------|---|---------|-----------|--------------|-----------|--|
| FILE NAME = | USER NAME = hllkl | DESIGNED - | REVISED - 6-27-14 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | REGION 2 / DISTRICT 2 STANDARD | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| P:\Projects\Contract 64L78 IL 251 at Har | em\Contract 64L78 plan\dgn | DRAWN - | REVISED - 8-27-13 | | | 303 | 3TS-4 | WINNEBAGO | 10 | 10 | |
| | PLOT SCALE = 41.9188 1/ in. | CHECKED - | REVISED - 11-28-12 | | | CONTRACT NO. 64L78 | | | | | |
| | PLOT DATE = Jan-12-2017 09:52:40 AM | DATE - | REVISED - | | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | |