

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|----------|--------------|-----------|
| * | ** | KANKAKEE | 48 | 1 |

* FAP ROUTE 840 (IL 50) FAP ROUTE 330 (IL 17)
 ** SEC. NO. (139Z, 11) TS-1 & (1) TS-2

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAP 840 (IL 50) & FAP 330 (IL 17)
 SECTION (139Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

C-93-178-04

PROJECT F-000S (548)

TRAFFIC SIGNAL MODERNIZATION ALONG
 IL 17 & IL 50 IN THE CITY OF KANKAKEE

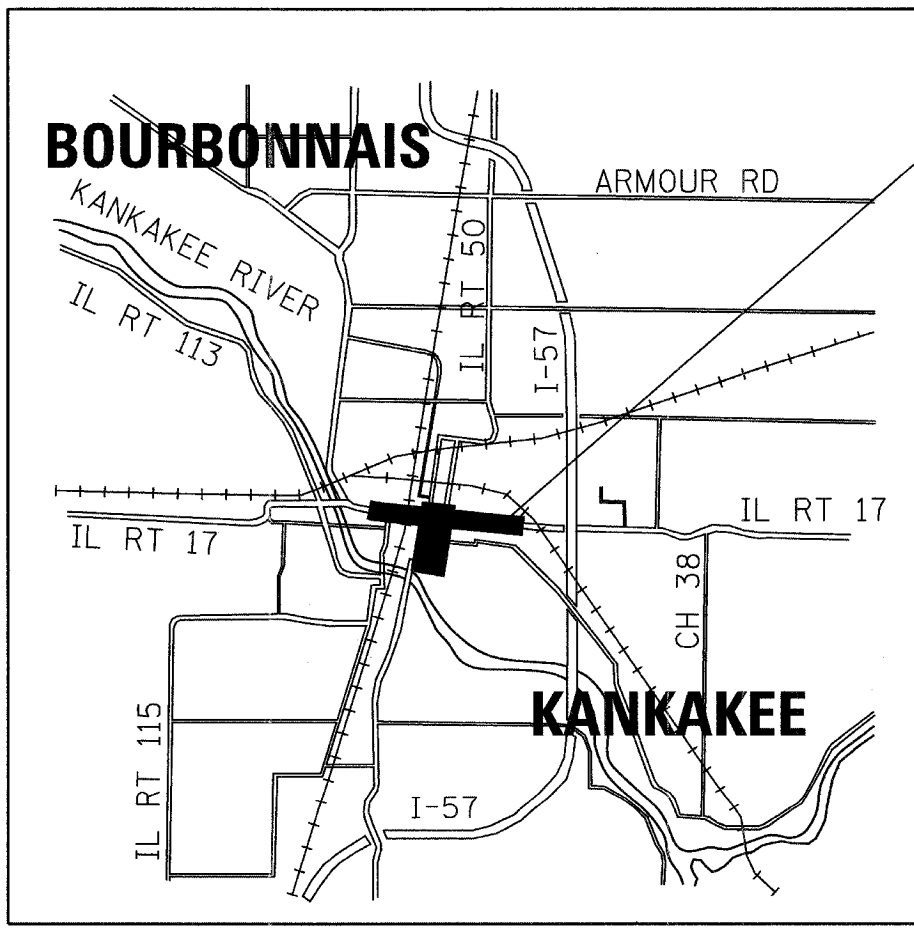
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HIGHWAY STANDARDS

- 000001-04 Standard Symbols, Abbreviations, and Patterns
- 424001-04 Curb Ramps for Sidewalks
- 701101-01 Off-Road Operations, Multilane 15' to 24" From Pavement Edge
- 701501-03 Urban Lane Closure, 2L, 2W, Undivided
- 701601-04 Urban Lane Closure, Multilane, 1W or 2W with Nontraversable Median
- 701606-04 Urban Lane Closure, Multilane 2W with Mountable Median
- 701701-04 Urban Lane Closure, Multilane Intersection
- 701801-03 Lane Closure, Multilane 1W or 2W Crosswalk or Sidewalk Closure
- 702001-06 Traffic Control Devices
- 720001 Sign Panel Mounting Details
- 720016-01 Mast Arm Mounted Street Name Signs
- 805001 Electrical Service Installation Details
- 814001-01 Concrete Handholes
- 814006-01 Double Handholes
- 857001 Standard Phase Designation Diagrams and Phase Sequences
- 862001 Uninterruptible Power Supply (UPS)
- 873001-01 Traffic Signal Grounding
- 877011-02 Steel Combination Mast Arm Assembly and Pole
- 878001-05 Concrete Foundation Details
- 880006 Traffic Signal Mounting Details
- 886001 Detector Loop Installations
- 886006 Typical Layout for Detection Loops

D93-013-07



PROJECT LOCATION

OTHER PRINCIPAL ARTERIAL
 FAP 840 (IL 50)
 ADT = 12,800 (2005)
 FAP 330 (IL 17)
 ADT = 20,100 (2005)

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED May 10 2007

Morgan Ryzman
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 29, 2007
Eric E. Harn
 INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

June 29, 2007
Milton R. See, P.E.
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

5-9-2007
 date

JORGE L. SANCHEZ
 LICENSED PROFESSIONAL ENGINEER
 NO. 062-055412
 STATE OF ILLINOIS

expires 11-30-2007

Jorge Sanchez
 signature
 PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-001717

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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

CHAMLIN & ASSOCIATES
 PERU ILLINOIS MORRIS

CONTRACT NO. 66526

JORGE SANCHEZ
 CHAMLIN & ASSOCIATES
 (815) 223-3344

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|----------|--------------|-----------|
| * | ** | KANKAKEE | 48 | 2 |

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

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION (J.U.L.I.E. 800/892-0123). CONTACT IDOT FOR HIGHWAY LIGHTING LOCATE.
- ALL TRAFFIC SIGNAL HEADS SHALL BE 12", UNLESS OTHERWISE NOTED.
- ALL SIGNAL BASES SHALL BE LOCATED AT 6 FOOT MINIMUM CLEARANCE FROM CURB UNLESS OTHERWISE DIRECTED BY ENGINEER.
- ALL CONDUIT IN TRENCH SHALL BE P.V.C. ALL CONDUIT PUSHED MAY BE GALVANIZED STEEL OR P.V.C. CONDUIT ATTACHED TO STRUCTURES SHALL BE GALVANIZED STEEL.
- A 1/4" DIAMETER CONTINUOUS NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER AS INCIDENTAL TO THE RESPECTIVE CONDUIT PAY ITEM.
- THE PROPOSED TRAFFIC SIGNAL CONTROL CABINET SHALL BE FURNISHED WITH A MANUAL CONTROL SWITCH AND MANUAL CONTROL CORD WITHIN THE POLICE DOOR COMPARTMENT AS INCIDENTAL TO THE CONTROL CABINET PAY ITEM.
- THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON, INCIDENTAL TO THE CONTROLLER PAY ITEM.
- THE DEPARTMENT OF TRANSPORTATION (815-434-8505) SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO THE TURNING ON OF THE CONTROLLER UNIT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING THE NEW ELECTRICAL LOADS FOR THE UNMETERED SERVICES ON THIS IMPROVEMENT TO THE UTILITY COMPANY AND AGENCY RESPONSIBLE FOR ENERGY CHARGES: CITY OF KANKAKEE, 850 N. HOBBIE AVENUE, KANKAKEE, IL. 60901.
- NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FEET MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
- ALL MAST ARM SIGNAL HEADS ON AN INDIVIDUAL MAST ARM SHALL BE MOUNTED SO THAT THE "RED" INDICATIONS ARE LEVEL WITH EACH OTHER.
- THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES, AS NECESSARY, INCIDENTAL TO THE CONDUIT PAY ITEM.
- ALL THREADS OF BOLTS USED IN TRAFFIC COMPONENT ASSEMBLIES SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.
- THE CONTROLLER CABINET SHALL BE PLACED SO THAT A TECHNICIAN MAY SEE THE INTERSECTION OVER THE TOP OF THE CABINET WHILE WATCHING THE COMPONENTS IN THE CABINET.
- BACK PLATES MUST BE POLYCARBONATE WITH A DEEP BACK FLANGE.
- THE CONTRACTOR SHALL PROVIDE 3 FEET SLACK CABLE IN EACH TRAFFIC SIGNAL STRUCTURE: MAST ARM, POST, CONTROLLER. THE SLACK, WHICH IS IN ADDITION TO THE VERTICAL LENGTH OF CABLE DEFINED IN THE SPECIFICATIONS, SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH CABLE.
- AT ALL LOCATIONS WHERE DETECTOR LOOPS ARE TO BE INSTALLED OVER EXISTING DETECTOR LOOPS. THE CONTRACTOR SHALL BE REQUIRED TO MAKE TWO SEPARATE SAW CUTS THROUGH EACH EXISTING DETECTOR LOOP TO PREVENT THE POSSIBILITY OF THE EXISTING LOOP SHORTING TO CREATE A CLOSED CIRCUIT. THIS WORK SHALL BE INCIDENTAL TO THE DETECTOR LOOP PAY ITEM.
- ALL GROUNDING MATERIALS FOR TRAFFIC SIGNAL CONCRETE FOUNDATIONS SHALL REFER TO SECTION 807 IN THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2007.
- THE CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE CONTROLLER CABINET DOOR.
- SIGNAL AND PEDESTRIAN HEADS SHALL HAVE BLACK HOUSING AND BLACK POLYCARBONATE BRACKETS.

- ADDITIONAL CONSTRUCTION NOT SHOWN ON THE PLANS:
 INSTALL UNINTERRUPTABLE POWER SUPPLY AT EXISTING CONTROLLER CABINET AT
 A) SCHUYLER AVENUE AND IL 17/COURT STREET(CORNER)
 B) US 45/52 / WASHINGTON AVENUE AND IL 17/COURT STREET (NW CORNER)
 C) FOURTH AVENUE AND IL 17/COURT STREET (NW CORNER)
 D) IL 50/INDIANA AVENUE AND HICKORY STREET
 RETROFIT ALL SIGNAL AND PEDESTRIAN HEADS WITH LED HEADS AT FOURTH AVENUE AND IL 17/COURT STREET, ALSO AT IL 50/INDIANA AVENUE AND HICKORY STREET.

SCHEDULE OF QUANTITIES SCHUYLER AVENUE AND IL 17/COURT STREET

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ④ |
|----------|--|------|----------------|---|
| 86200300 | UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 | 1 |

SCHEDULE OF QUANTITIES US 45/52 / WASHINGTON AVENUE AND IL 17/COURT STREET

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ④ |
|----------|--|------|----------------|---|
| 86200300 | UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 | 1 |

SCHEDULE OF QUANTITIES FOURTH AVENUE AND IL 17/COURT STREET

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ④ |
|----------|--|------|----------------|----|
| 86200300 | UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 | 1 |
| X0323336 | LED SIGNAL FACE RETROFIT, RED BALL | EACH | 14 | 14 |
| X0323337 | LED SIGNAL FACE RETROFIT, GREEN BALL | EACH | 14 | 14 |
| X0323418 | LED SIGNAL FACE RETROFIT, YELLOW BALL | EACH | 14 | 14 |
| X0323419 | LED SIGNAL FACE RETROFIT, YELLOW ARROW | EACH | 4 | 4 |
| X0323420 | LED SIGNAL FACE RETROFIT, GREEN ARROW | EACH | 4 | 4 |
| XX004444 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED, RETROFIT | EACH | 8 | 8 |

SCHEDULE OF QUANTITIES ILL 50/INDIANA AVENUE AND HICKORY STREET

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ④ |
|----------|--|------|----------------|---|
| 86200300 | UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 | 1 |
| X0323336 | LED SIGNAL FACE RETROFIT, RED BALL | EACH | 6 | 6 |
| X0323337 | LED SIGNAL FACE RETROFIT, GREEN BALL | EACH | 6 | 6 |
| X0323418 | LED SIGNAL FACE RETROFIT, YELLOW BALL | EACH | 6 | 6 |
| XX004444 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED, RETROFIT | EACH | 8 | 8 |

ALL UNINTERRUPTABLE POWER SUPPLIES SHALL BE EQUIPPED WITH ALPHAGUARD MONITORS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 DISTRICT THREE

PREPARED BY: Bruce A. Huelber
 DISTRICT OPERATIONS ENGINEER

DATE: 05/10/07

EXAMINED BY: [Signature]
 DISTRICT CONSTRUCTION ENGINEER

James Thraedyth
 DISTRICT MATERIALS ENGINEER

Rick Powell
 DISTRICT STUDIES & PLANS ENGINEER

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL NOTES
 FAP 840 (IL 50) AND FAP 330 (IL 17)
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

VERT. 1" = 20'
 SCALE: HORIZ. 1" = 20'
 DATE 6/05
 DRAWN BY ARR
 CHECKED BY JLS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------|----------|--------------|-----------|
| * | ** | KANKAKEE | 48 | 4 |
| STA. TO STA. | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

CONSTRUCTION NOTES:

REMOVE AND REPLACE TRAFFIC SIGNAL POST ON EXISTING FOUNDATION IN SOUTHWEST CORNER. INSTALL NEW 5-SECTION LED HEAD. REMOVE AND REINSTALL EXISTING PEDESTRIAN SIGNAL HEAD.

REMOVE TWO (2) TRAFFIC SIGNAL POSTS AND FOUNDATIONS ON NORTH SIDE. INSTALL MAST ARM ASSEMBLY AND POLE WITH TWO (2) NEW 3-SECTION LED HEADS AND NEW PEDESTRIAN HEAD.

REPLACE 4-SECTION HEAD ON MAST ARM IN NORTHWEST CORNER WITH 5-SECTION LED HEAD.

RETROFIT THE REMAINING THREE (3) 3-SECTION HEADS WITH LED HEADS.

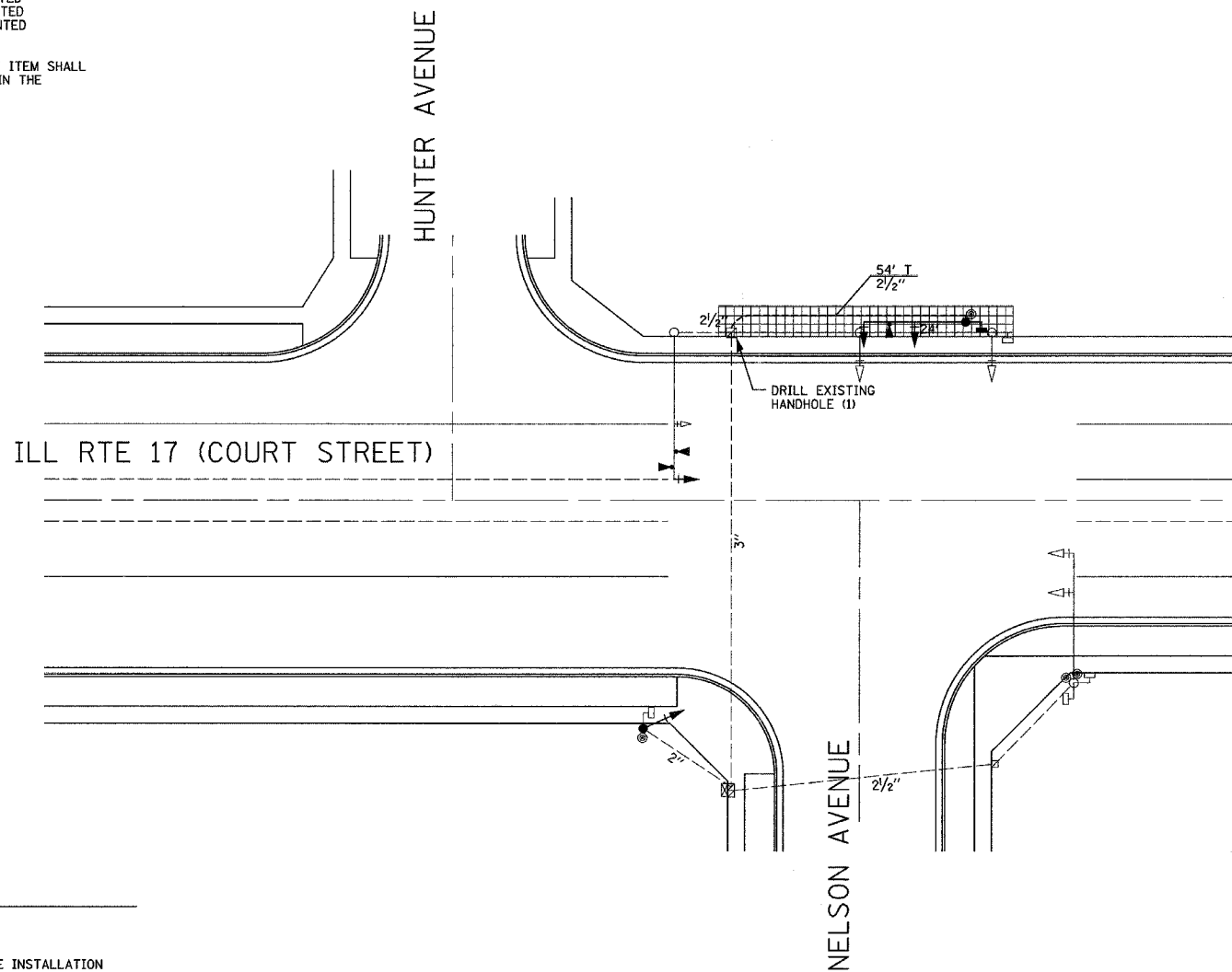
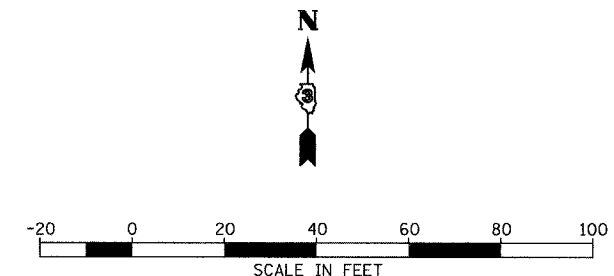
RETROFIT THE REMAINING THREE (3) PEDESTRIAN HEADS WITH LED SYMBOL HEADS.

REMOVE AND REPLACE THE FOUR (4) PEDESTRIAN PUSH - BUTTONS.

REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:

- 3 EACH - TRAFFIC SIGNAL POST
- 1 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED
- 1 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED
- 2 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
- 1 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
- 4 EACH - PEDESTRIAN PUSH - BUTTONS

THE REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT PAY ITEM SHALL BE USED TO FACILITATE THE PLACEMENT OF ADDITIONAL CABLE IN THE EXISTING CONDUIT.



SCHEDULE OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ③ | ⑤ |
|----------|--|-------|----------------|------|----|
| 44100100 | PAVEMENT REPLACEMENT | SQ YD | 56 | 56 | -- |
| 66900200 | NON-SPECIAL WASTE DISPOSAL | CU YD | 3 | 3 | -- |
| 66900450 | SPECIAL WASTE PLANS AND REPORTS | L SUM | 0.25 | 0.25 | -- |
| 66900530 | SOIL DISPOSAL ANALYSIS | EACH | 1 | 1 | -- |
| 72000100 | SIGN PANEL-TYPE 1 | SQ FT | 10 | 10 | -- |
| 81012700 | CONDUIT IN TRENCH, 2 1/2" DIA., PVC | FOOT | 54 | 54 | -- |
| 81900200 | TRENCH AND BACKFILL FOR ELECTRICAL WORK | FOOT | 54 | 54 | -- |
| 86200300 | UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 | 1 | -- |
| 87301225 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 204 | 204 | -- |
| 87301245 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 463 | 463 | -- |
| 87700160 | STEEL MAST ARM ASSEMBLY AND POLE, 24 FT. | EACH | 1 | 1 | -- |
| 87800415 | CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER | FOOT | 11 | 11 | -- |
| 87900200 | DRILL EXISTING HANDHOLE | EACH | 1 | 1 | -- |
| 88040090 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 2 | 2 | -- |
| 88040150 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 1 | 1 | -- |
| 88040160 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 1 | 1 | -- |
| 88102710 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED | EACH | 1 | 1 | -- |
| 88200410 | TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 4 | 4 | -- |
| 88800100 | PEDESTRIAN PUSH-BUTTON | EACH | 4 | 4 | -- |
| 89500200 | RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD | EACH | 1 | 1 | -- |
| 89502210 | MODIFY EXISTING CONTROLLER CABINET | EACH | 1 | 1 | -- |
| 89502300 | REMOVE ELECTRIC CABLE FROM CONDUIT | FOOT | 601 | 601 | -- |
| 89502350 | REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT | FOOT | 402 | 402 | -- |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 | 1 | -- |
| 89502385 | REMOVE EXISTING CONCRETE FOUNDATION | EACH | 2 | 2 | -- |
| X0323336 | LED SIGNAL FACE RETROFIT, RED BALL | EACH | 3 | 3 | -- |
| X0323337 | LED SIGNAL FACE RETROFIT, GREEN BALL | EACH | 3 | 3 | -- |
| X0323418 | LED SIGNAL FACE RETROFIT, YELLOW BALL | EACH | 3 | 3 | -- |
| X8730027 | ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C | FOOT | 352 | 352 | -- |
| X8860100 | LOOP DETECTOR TESTING | EACH | 1 | 1 | -- |
| XX002179 | ELECTRIC CABLE IN CONDUIT, COMMUNICATION NO. 20 3/C | FOOT | 634 | 634 | -- |
| XX004444 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED, RETROFIT | EACH | 3 | -- | 3 |
| *3001707 | LIGHT DETECTOR, INSTALLATION ONLY | EACH | 3 | -- | 3 |
| *3001826 | CONFIRMATION BEACON, INSTALLATION ONLY | EACH | 3 | -- | 3 |
| *3001708 | LIGHT DETECTOR AMPLIFIER, INSTALLATION ONLY | EACH | 3 | -- | 3 |

TRAFFIC SIGNALS LEGEND

| EXISTING | PROPOSED | |
|----------|----------|----------------------------------|
| □ | ■ | SERVICE INSTALLATION |
| ⊗ | ⊗ | CONTROLLER CABINET |
| --- | --- | CONDUIT |
| ↑ | → | SIGNAL HEAD WITH BACKPLATE |
| ○ | ● | STEEL MAST ARM |
| ○ | ● | TRAFFIC SIGNAL POST |
| □ | ■ | HANDHOLE |
| ⊗ | ⊗ | DOUBLE HANDHOLE |
| □ | ■ | PEDESTRIAN SIGNAL HEAD |
| ⊙ | ⊙ | PEDESTRIAN PUSH BUTTON |
| ▲ | ▲ | EMERGENCY VEHICLE LIGHT DETECTOR |

LEGEND



LEGEND

- ① 80% FEDERAL, 20% STATE
- ② 80% FEDERAL, 15% STATE, 5% CITY
- ③ 80% FEDERAL, 13.3% STATE, 6.7% CITY
- ④ 80% FEDERAL, 10% STATE, 10% CITY
- ⑤ 100% CITY

| REVISIONS | |
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| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL PLAN
 FAP 330 (IL 17)-COURT STREET
 AND NELSON AVENUE
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'

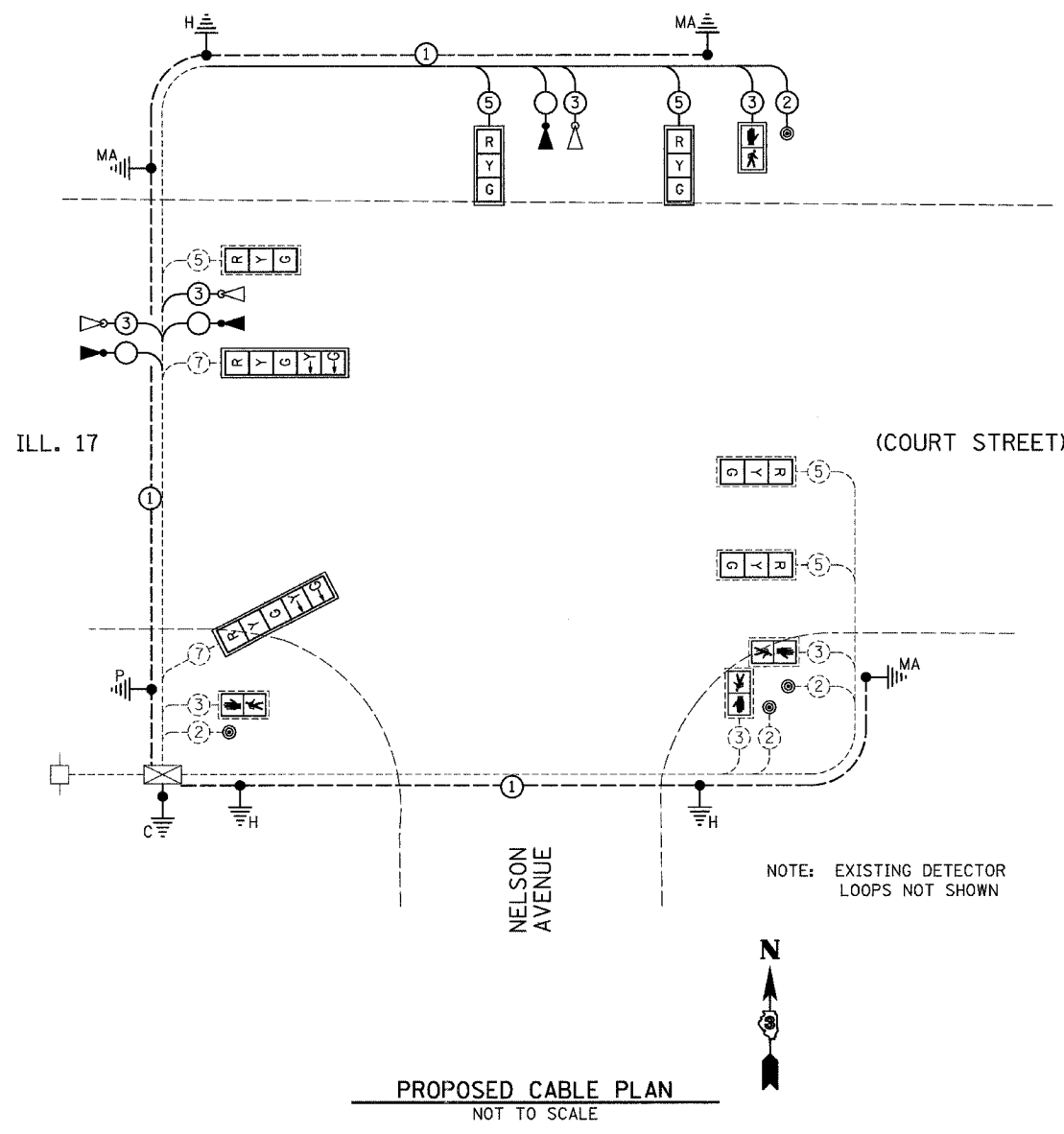
DATE 6/05

DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 4/07
 FILE NAME = NELSON-AVE.DGN
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|----------|------------------|-----------|
| . | . | KANKAKEE | 48 | 5 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2



PROPOSED TRAFFIC SIGNALS LEGEND

- ⊙ PROPOSED CABLE NUMBER
* = CABLE NUMBER
- ▲ EMERGENCY VEHICLE CONFIRMATION BEACON
- ▽ EMERGENCY VEHICLE LIGHT DETECTOR
- ⊙ PEDESTRIAN PUSH BUTTON
- ⏏ LEFT TURN YELLOW
- ⏏ LEFT TURN GREEN
- ▭ SIGNAL SECTION 12"
- ⏏ WALK/DON'T WALK SECTION
- ▭ TRAFFIC SIGNAL BACKPLATE
- ▭ RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS
- ⏏ RETROFIT EXISTING PEDESTRIAN SIGNAL WITH LED SYMBOL HEADS
- Ⓛ GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
- Ⓛ^C GROUND ROD AT CONTROLLER (C), POST (P), MAST ARM (MA), SERVICE (S), OR HANDHOLE (H)

| REVISIONS | |
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| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
FAP 330 (IL 17)-COURT STREET
AND NELSON AVENUE
SECTION (139 Z, 11) TS-1 & (1) TS-2
KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
HORIZ. 1" = 20'

DATE 6/05

DRAWN BY ARR
CHECKED BY JLS

PLOT DATE = 4/07
FILE NAME = NELSON-CABLE.DGN
PLOT SCALE = 1" = 20'
USER NAME = ARR

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------|----------|--------------|-----------|
| * | ** | KANKAKEE | 48 | 6 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT | | | | |

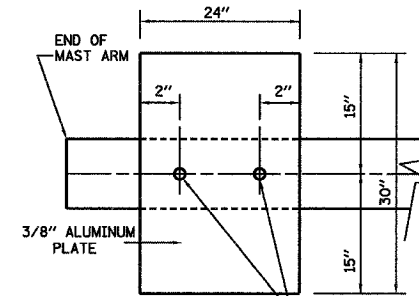
- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

| ELECTRICAL LOAD FOR INTERSECTION | | | | |
|----------------------------------|---------------------------|--------|--------------|------------|
| STREET NAME | COMPONENT | NUMBER | WATTAGE EACH | BURNTIME % |
| ILLINOIS ROUTE 17 (COURT STREET) | RED | 5 | 10 | 68 |
| | YELLOW | 5 | 19 | 5 |
| | GREEN | 5 | 14 | 27 |
| | YELLOW ARROW-LT. | 2 | 9 | 5 |
| | GREEN ARROW-LT. | 2 | 3.4 | 11 |
| | | 2 | 8 | 95 |
| NELSON AVENUE | RED | 2 | 10 | 74 |
| | YELLOW | 2 | 19 | 5 |
| | GREEN | 2 | 14 | 21 |
| | | 2 | 8 | 95 |
| | | 2 | 6 | 5 |
| TRAFFIC SIGNAL CABINET | CONTROLLER | 1 | 6 | 100 |
| | VEHICLE DETECTORS | 13 | 4 | 100 |
| | EMERGENCY VEHICLE PREEMPT | 3 | -- | -- |

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF KANKAKEE

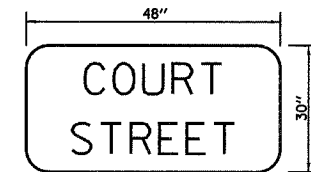
NOTE:

DAMPENING DEVICE SHALL CONSIST OF A 24" X 30" TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



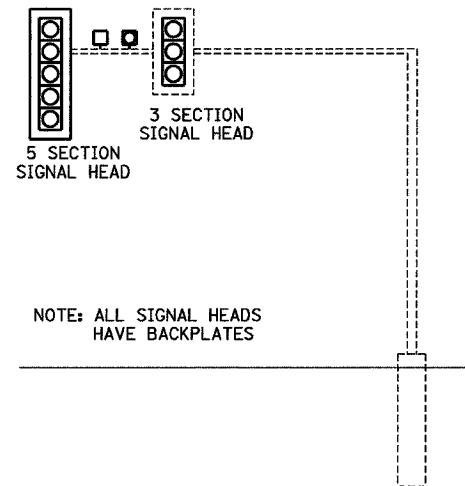
2-5/8" STAINLESS STEEL BOLTS THROUGH STAINLESS STEEL BANDING
NOTE:
MOUNT DAMPENING PLATE TO END OF EACH TRAFFIC SIGNAL MAST ARM.

DAMPENING PLATE DETAIL - TOP VIEW

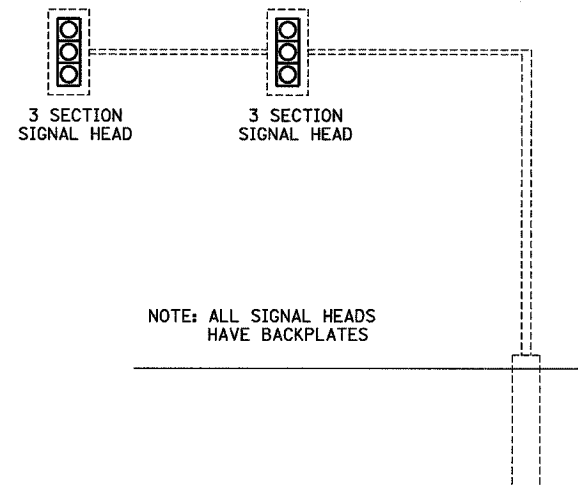


TYPE A SHEETING REQUIRED
8" D SERIES LETTERS
1 SIGNS REQUIRED = 10.0 SQ. FT. EACH
= 10.0 SQ. FT. TOTAL

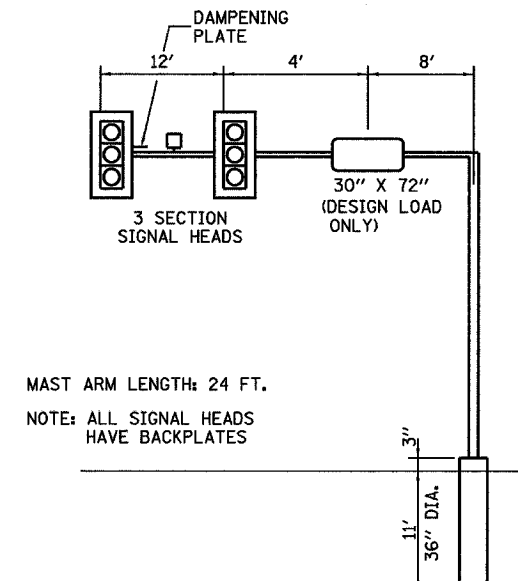
THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH ILL RTE 17 (COURT STREET)



WESTBOUND



EASTBOUND



NORTHBOUND

NORTHWEST CORNER
NOT TO SCALE

SOUTHEAST CORNER
NOT TO SCALE

NORTHEAST CORNER
NOT TO SCALE

ILLINOIS ROUTE 17 (COURT STREET) / NELSON AVENUE

PLOT DATE = 4/07
FILE NAME = teds.dgn
PLOT SCALE = 1" = 20'
USER NAME = ARR

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
FAP 330 (IL 17)-COURT STREET
AND NELSON AVENUE
SECTION (139 Z, 11) TS-1 & (1) TS-2
KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
HORIZ. 1" = 20'
DATE 6/05

DRAWN BY ARR
CHECKED BY JLS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|---------------|------------------|-----------|
| * | ** | KANKAKEE | 48 | 7 |
| STA. _____ | | TO STA. _____ | | |
| FED. ROAD DIST. NO. _____ | | ILLINOIS | FED. AID PROJECT | |



Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 4/27/07

ROUTE FAP 330 (IL 17) DESCRIPTION IL 17 & Nelson Ave: 11'N & 7'W of Exist. Foundation, NE Quad LOGGED BY Larry Myers

SECTION (139 Z, 11) TS-1 & (1) TS-2 LOCATION SW, SEC. 33, TWP. 31N, RNG. 12E

COUNTY Kankakee DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. _____
Station _____

BORING NO. 1 NE Quad
Station _____
Offset _____
Ground Surface Elev. _____ ft

D E P T H (ft) B L O W S (6") U C S (tsf) M O I S T U R E (%)

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion Dry ft
After _____ Hrs. _____ ft

| | | | | |
|---|-----|-----|------|--|
| Augered, Bituminous Pavement, white, CA6 and black, Silty Clay fill | | | | |
| Stiff, gray brown, Silty Clay to Silty Clay Loam fill | 3 | | | |
| | 3 | 2.0 | 18.3 | |
| | 3 | P | | |
| Hard, brown gray, Silty Clay | | | | |
| | -5 | 4 | | |
| | 6 | 4.7 | 27.7 | |
| | 8 | S | | |
| | 5 | | | |
| | 8 | 5.3 | 20.4 | |
| | 10 | S | | |
| | -10 | 8 | | |
| | 10 | 5.7 | 19.7 | |
| | 12 | S | | |
| | 6 | | | |
| | 8 | 5.7 | 21.6 | |
| | 14 | S | | |
| | -15 | 5 | | |
| | 8 | 5.5 | 24.5 | |
| | 12 | S | | |
| End of Boring | | | | |
| | -20 | | | |

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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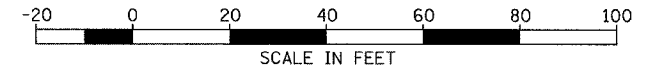
ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORINGS
FAP 330 (IL 17)-COURT STREET
AND NELSON AVENUE
SECTION (139 Z, 11) TS-1 & (1) TS-2
KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
HORIZ. 1" = 20'
DATE 6/05

DRAWN BY ARR
CHECKED BY JLS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------|----------|--------------|-----------|
| . | . | KANKAKEE | 48 | 8 |
| STA. TO STA. | | | | |
| FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT | | | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

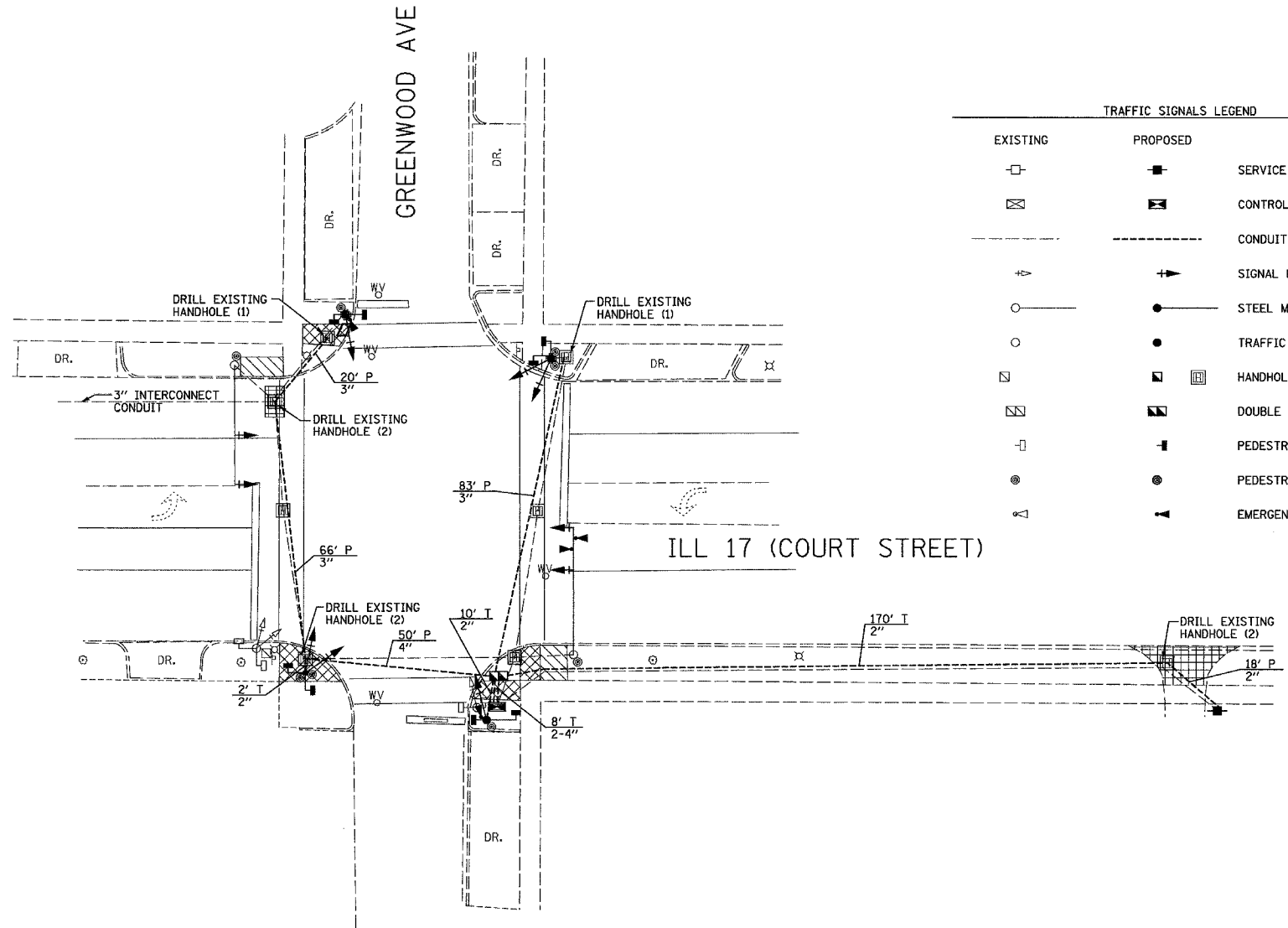


CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER. MODIFY EXISTING CABINET. INSTALL UNINTERRUPTIBLE POWER SUPPLY.
- EXISTING DETECTOR LOOP LEAD-IN CABLE TO REMAIN IN PLACE.
- REMOVE AND REPLACE TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS IN NORTHWEST AND NORTHEAST CORNERS.
- REMOVE TRAFFIC SIGNAL POSTS AND FOUNDATIONS IN SOUTHWEST AND SOUTHEAST CORNERS. INSTALL NEW POSTS AND FOUNDATIONS WHERE INDICATED.
- REMOVE AND REPLACE ALL SIGNAL HEADS WITH LED HEADS. REPLACE FOUR (4) 4-SECTION HEADS WITH 5-SECTION HEADS.
- REMOVE AND REPLACE EIGHT (8) PEDESTRIAN HEADS WITH LED SYMBOL HEADS.
- REMOVE AND REPLACE PEDESTRIAN PUSH-BUTTONS.
- REMOVE AND REPLACE SERVICE ON EXISTING POLE.
- BACKFILL EXCAVATION IN ROADWAY WITH CONTROLLED LOW-STRENGTH MATERIAL.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER
 - 6 EACH - INDUCTIVE LOOP DETECTOR
 - 4 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
 - 2 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 2 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED
 - 2 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED
 - 4 EACH - TRAFFIC SIGNAL POST
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
 - 8 EACH - PEDESTRIAN PUSH-BUTTON
 - 1 EACH - ELECTRICAL SERVICE

SCHEDULE OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ④ | ⑤ |
|----------|--|-------|----------------|-------|----|
| 42400100 | PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH | SQ FT | 393 | 393 | -- |
| 42400800 | DETECTABLE WARNINGS | SQ FT | 33 | 33 | -- |
| 44000600 | SIDEWALK REMOVAL | SQ FT | 274 | 274 | -- |
| 44100100 | PAVEMENT REPLACEMENT | SQ YD | 23 | 23 | -- |
| 59300100 | CONTROLLED LOW-STRENGTH MATERIAL | CU YD | 2 | 2 | -- |
| 80500200 | SERVICE INSTALLATION, TYPE B | EACH | 1 | 1 | -- |
| 81012600 | CONDUIT IN TRENCH, 2" DIA., PVC | FOOT | 182 | 182 | -- |
| 81013000 | CONDUIT IN TRENCH, 4" DIA., PVC | FOOT | 16 | 16 | -- |
| 81021330 | CONDUIT PUSHED, 2" DIA., PVC | FOOT | 18 | 18 | -- |
| 81021350 | CONDUIT PUSHED, 3" DIA., PVC | FOOT | 169 | 169 | -- |
| 81021370 | CONDUIT PUSHED, 4" DIA., PVC | FOOT | 50 | 50 | -- |
| 81400720 | DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE | EACH | 1 | 1 | -- |
| 81900200 | TRENCH AND BACKFILL FOR ELECTRICAL WORK | FOOT | 190 | 190 | -- |
| 85700505 | FULL-ACTUATED CONTROLLER IN EXISTING CABINET, SPECIAL | EACH | 1 | 1 | -- |
| 86200300 | UNINTERRUPTIBLE POWER SUPPLY, EXTENDED | EACH | 1 | 1 | -- |
| 86400100 | TRANSCIEVER-FIBER OPTIC | EACH | 1 | 1 | -- |
| 87301215 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 923 | 923 | -- |
| 87301225 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 995 | 995 | -- |
| 87301245 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 801 | 801 | -- |
| 87301255 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 564 | 564 | -- |
| 87301805 | ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C | FOOT | 222 | 222 | -- |
| 87502500 | TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 4 | 4 | -- |
| 87800100 | CONCRETE FOUNDATION, TYPE A | FOOT | 6 | 6 | -- |
| 87900200 | DRILL EXISTING HANDHOLE | EACH | 8 | 8 | -- |
| 88040070 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 4 | 4 | -- |
| 88040090 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 2 | 2 | -- |
| 88040150 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 2 | 2 | -- |
| 88040160 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 2 | 2 | -- |
| 88102710 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED | EACH | 8 | 8 | -- |
| 88200410 | TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 10 | 10 | -- |
| 88500100 | INDUCTIVE LOOP DETECTOR | EACH | 6 | 6 | -- |
| 88800100 | PEDESTRIAN PUSH-BUTTON | EACH | 8 | 8 | -- |
| 89502210 | MODIFY EXISTING CONTROLLER CABINET | EACH | 1 | 1 | -- |
| 89502300 | REMOVE ELECTRIC CABLE FROM CONDUIT | FOOT | 1760 | 1760 | -- |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 | 1 | -- |
| 89502385 | REMOVE EXISTING CONCRETE FOUNDATION | EACH | 2 | 2 | -- |
| X8730027 | ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C | FOOT | 554.5 | 554.5 | -- |
| X8860100 | LOOP DETECTOR TESTING | EACH | 1 | 1 | -- |
| XX002179 | ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C | FOOT | 417 | 417 | -- |
| *3001707 | LIGHT DETECTOR, INSTALLATION ONLY | EACH | 4 | -- | 4 |
| *3001826 | CONFIRMATION BEACON, INSTALLATION ONLY | EACH | 4 | -- | 4 |
| *3001708 | LIGHT DETECTOR AMPLIFIER, INSTALLATION ONLY | EACH | 4 | -- | 4 |



LEGEND

- ① 80% FEDERAL, 20% STATE
- ② 80% FEDERAL, 15% STATE, 5% CITY
- ③ 80% FEDERAL, 13.3% STATE, 6.7% CITY
- ④ 80% FEDERAL, 10% STATE, 10% CITY
- ⑤ 100% CITY

LEGEND

| | |
|--|----------------------------------|
| | SIDEWALK REMOVAL AND REPLACEMENT |
| | SIDEWALK |
| | PAVEMENT REPLACEMENT |

TRAFFIC SIGNALS LEGEND

| EXISTING | PROPOSED | |
|----------|----------|----------------------------------|
| | | SERVICE INSTALLATION |
| | | CONTROLLER CABINET |
| | | CONDUIT |
| | | SIGNAL HEAD WITH BACKPLATE |
| | | STEEL MAST ARM |
| | | TRAFFIC SIGNAL POST |
| | | HANDHOLE |
| | | DOUBLE HANDHOLE |
| | | PEDESTRIAN SIGNAL HEAD |
| | | PEDESTRIAN PUSH BUTTON |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |

REVISIONS

| NAME | DATE |
|------|------|
| ARR | 4/07 |
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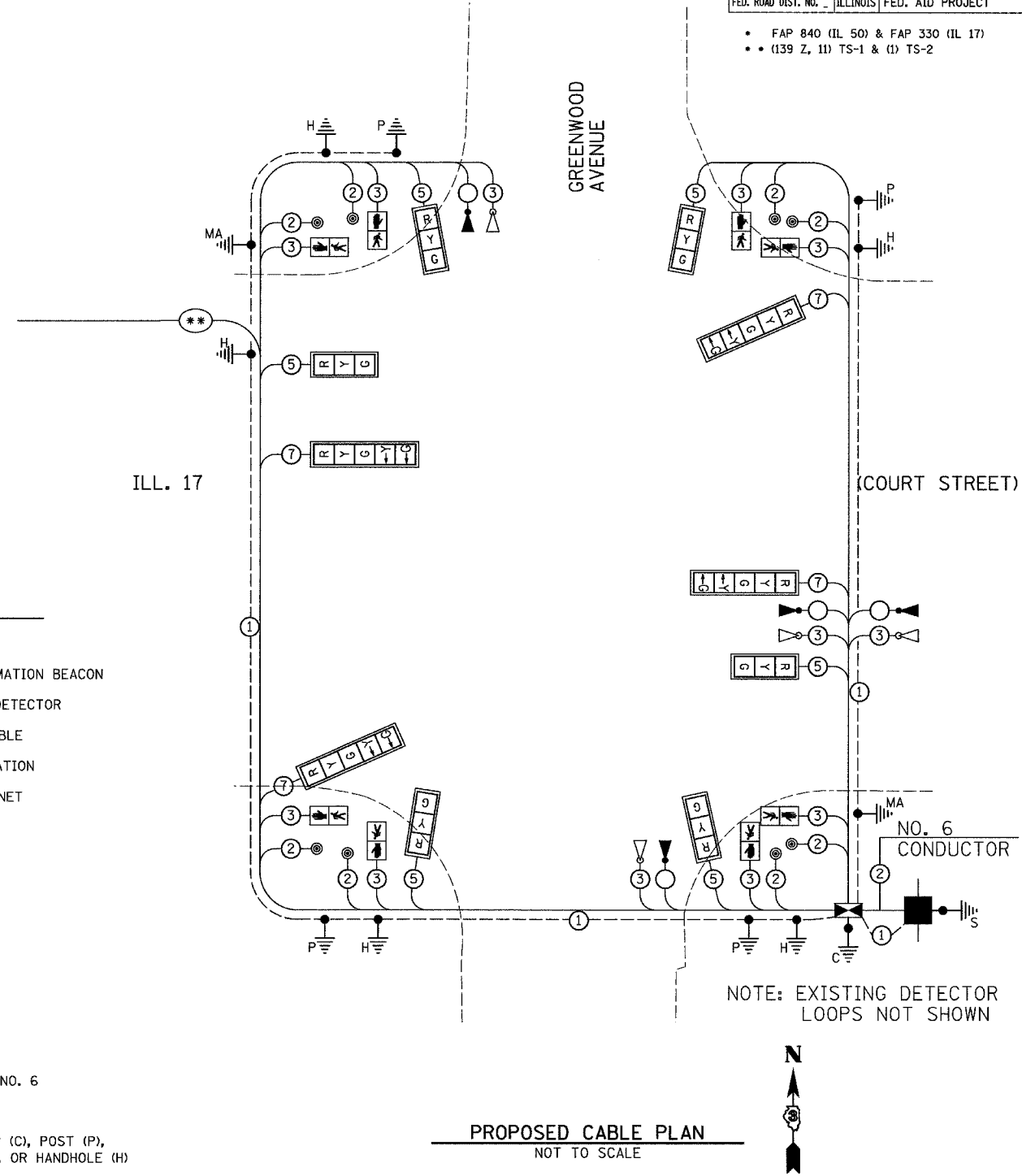
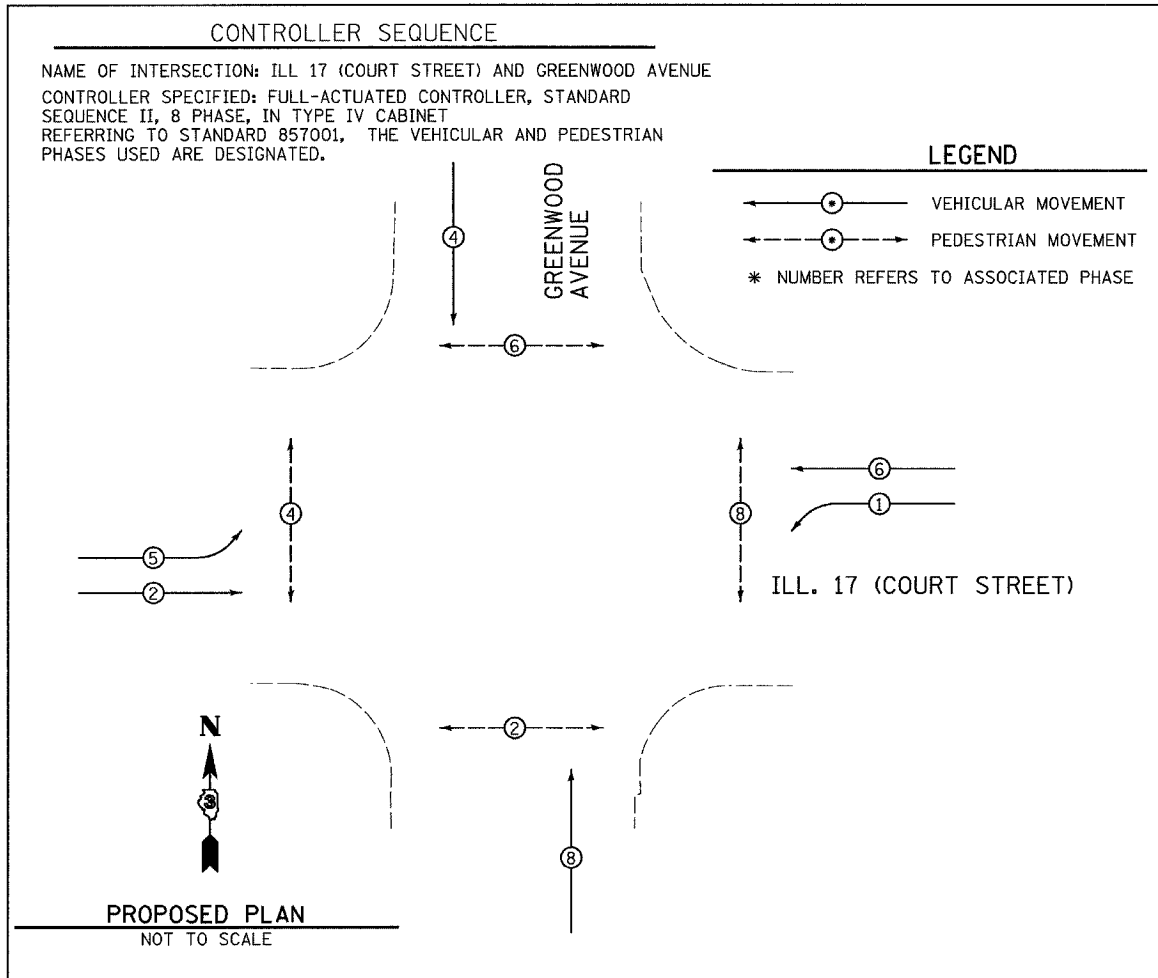
ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL PLAN
 FAP 330 (IL 17)-COURT STREET
 AND GREENWOOD AVENUE
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 6/05

DRAWN BY ARR
 CHECKED BY JLS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|---------------------------------|--------------|-----------|
| • | •• | KANKAKEE | 48 | 9 |
| STA. _____ | | TO STA. _____ | | |
| FED. ROAD DIST. NO. _____ | | ILLINOIS FED. AID PROJECT _____ | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2



- #### PROPOSED TRAFFIC SIGNALS LEGEND
- ⊙ PROPOSED CABLE NUMBER
 - *-CABLE NUMBER
 - ▲ EMERGENCY VEHICLE CONFIRMATION BEACON
 - ▽ EMERGENCY VEHICLE LIGHT DETECTOR
 - ** PROPOSED INTERCONNECT CABLE
 - PROPOSED SERVICE INSTALLATION
 - ▣ PROPOSED CONTROLLER CABINET
 - ⊙ PEDESTRIAN PUSH BUTTON
 - ⊠-Y LEFT TURN YELLOW
 - ⊠-G LEFT TURN GREEN
 - ▭ SIGNAL SECTION 12"
 - ⊠-W/WALK DON'T WALK SECTION
 - ▭ TRAFFIC SIGNAL BACKPLATE
 - ①- GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
 - ⊖- GROUND ROD AT CONTROLLER (C), POST (P), MAST ARM (MA), SERVICE (S), OR HANDHOLE (H)

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
 FAP 330 (IL 17)-COURT STREET
 AND GREENWOOD AVENUE
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'

DATE 6/05

DRAWN BY ARR
 CHECKED BY JLS

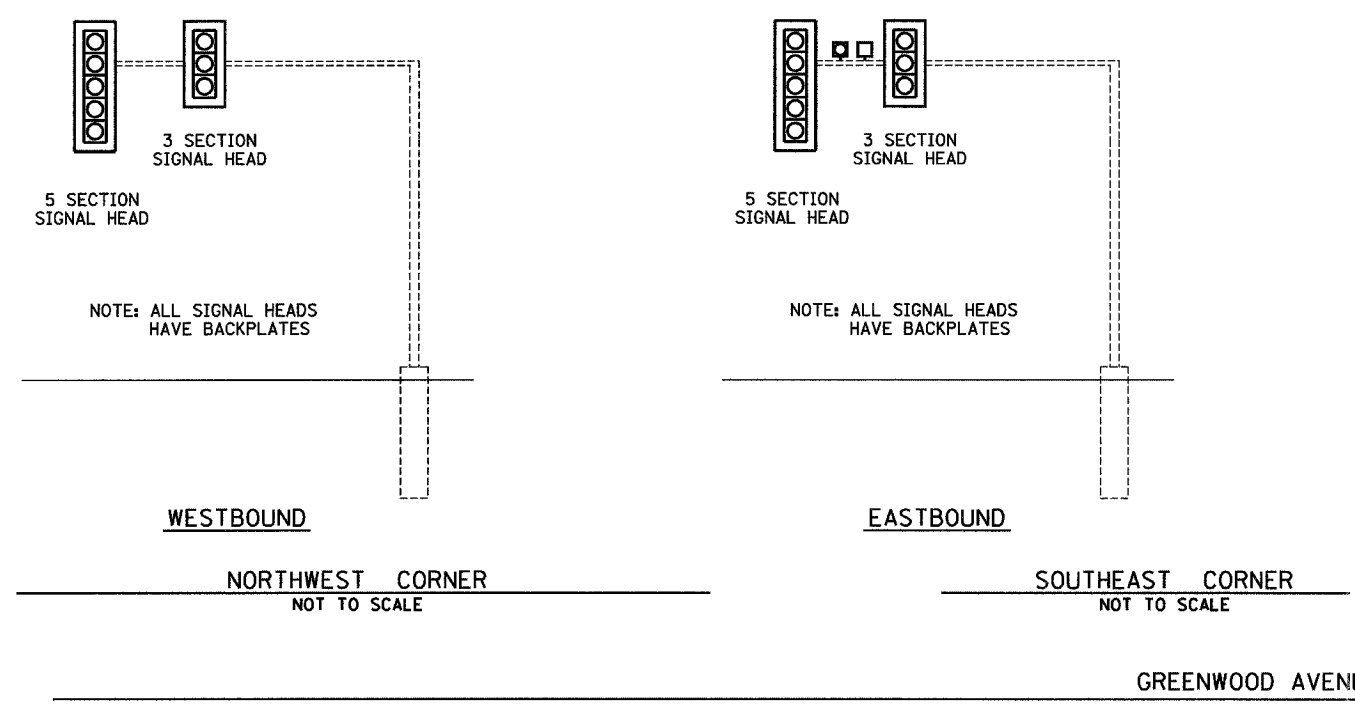
PLOT DATE = 4/07
 FILE NAME = ILL17-GREENWOOD-CABLE.DGN
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|---------------------------|--------------|-----------|
| • | • | KANKAKEE | 48 | 10 |
| STA. _____ | | TO STA. _____ | | |
| FED. ROAD DIST. NO. _____ | | ILLINOIS FED. AID PROJECT | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

| ELECTRICAL LOAD FOR INTERSECTION | | | | |
|-------------------------------------|---------------------------|--------|--------------|------------|
| STREET NAME | COMPONENT | NUMBER | WATTAGE EACH | BURNTIME % |
| ILLINOIS ROUTE 17 (COURT STREET) | RED | 6 | 10 | 68 |
| | YELLOW | 6 | 19 | 5 |
| | GREEN | 6 | 14 | 27 |
| | YELLOW ARROW-LT. | 4 | 9 | 5 |
| | GREEN ARROW-LT. | 4 | 3.4 | 11 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| GREENWOOD AVENUE | RED | 4 | 10 | 74 |
| | YELLOW | 4 | 19 | 5 |
| | GREEN | 4 | 14 | 21 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| TRAFFIC SIGNAL CABINET | CONTROLLER | 1 | 6 | 100 |
| | VEHICLE DETECTORS | 6 | 4 | 100 |
| | UPS | 1 | 50 | 100 |
| | EMERGENCY VEHICLE PREEMPT | 4 | -- | -- |

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF KANKAKEE



| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL DETAILS
 FAP 330 (IL 17)-COURT STREET
 AND GREENWOOD AVENUE
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

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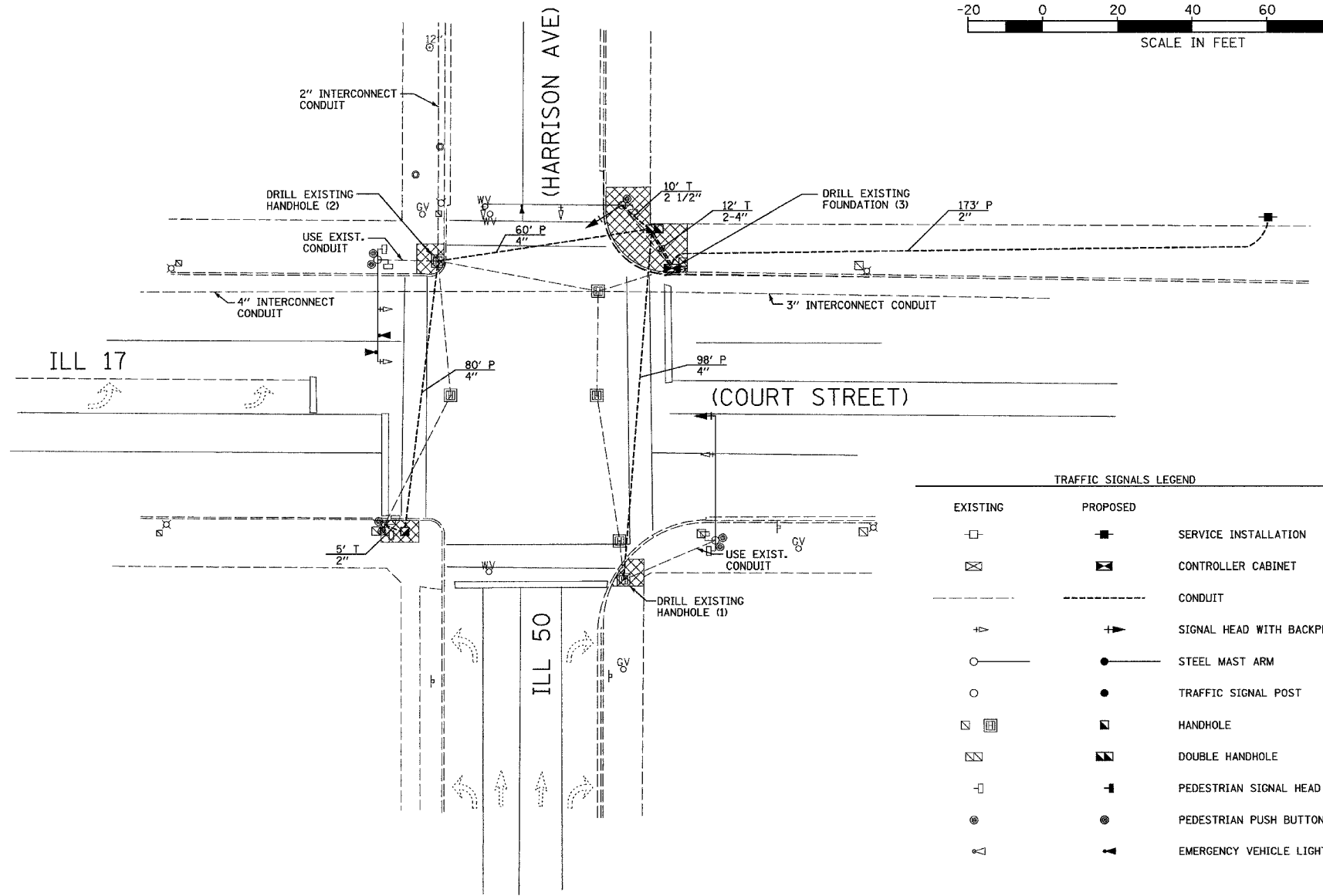
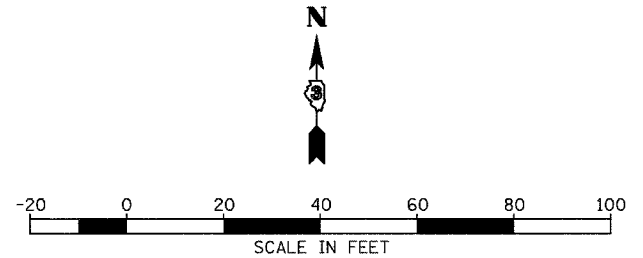
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|----------|--------------|-----------|
| . | .. | KANKAKEE | 48 | 11 |

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

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

CONSTRUCTION NOTES:

- REMOVE AND REPLACE SERVICE ON EXISTING POLE. INSTALL NEW CONDUIT BY DIRECTIONAL BORING.
- REPLACE 4-SECTION HEAD ON MAST ARM IN SOUTHEAST CORNER WITH 5-SECTION LED HEAD.
- REMOVE THE 4-SECTION HEAD ON THE LIGHT POLE IN THE NORTHEAST CORNER. REPLACE WITH A 5-SECTION BRACKET MOUNTED LED HEAD ON THE MAST ARM IN THE NORTHEAST CORNER.
- RETROFIT THE FIVE (5) 3-SECTION HEADS WITH LED HEADS.
- RETROFIT THE EIGHT (8) PEDESTRIAN HEADS WITH LED SYMBOL HEADS.
- RELOCATE PUSH-BUTTON FROM CONTROLLER CABINET TO THE MAST ARM IN THE NORTHEAST CORNER.
- REMOVE EXISTING CABLE AND INSTALL NEW CABLE IN NEW CONDUIT EXCEPT WHERE NOTED. LEAVE INTERCONNECT CABLE IN PLACE.
- REMOVE AND REPLACE CONTROLLER MODIFY EXISTING CABINET.
- INSTALL UNINTERRUPTIBLE POWER SUPPLY.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER
 - 1 EACH - ELECTRICAL SERVICE
 - 1 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED
 - 1 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED



SCHEDULE OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ① | ② | ③ | ④ | ⑤ |
|----------|--|-------|----------------|------|----|----|----|----|
| 42400100 | PORTLAND CEMENT SIDEWALK, 4 INCH | SQ FT | 554 | 554 | -- | -- | -- | -- |
| 42400800 | DETECTABLE WARNINGS | SQ FT | 62 | 62 | -- | -- | -- | -- |
| 44000600 | SIDEWALK REMOVAL | SQ FT | 554 | 554 | -- | -- | -- | -- |
| 80500200 | SERVICE INSTALLATION, TYPE B | EACH | 1 | 1 | -- | -- | -- | -- |
| 81012600 | CONDUIT IN TRENCH, 2" DIA., PVC | FOOT | 5 | 5 | -- | -- | -- | -- |
| 81012700 | CONDUIT IN TRENCH, 2 1/2" DIA., PVC | FOOT | 10 | 10 | -- | -- | -- | -- |
| 81013000 | CONDUIT IN TRENCH, 4" DIA., PVC | FOOT | 24 | 24 | -- | -- | -- | -- |
| 81021330 | CONDUIT PUSHED, 2" DIA., PVC | FOOT | 173 | 173 | -- | -- | -- | -- |
| 81021370 | CONDUIT PUSHED, 4" DIA., PVC | FOOT | 238 | 238 | -- | -- | -- | -- |
| 81400700 | HANDHOLE, PORTLAND CEMENT CONCRETE | EACH | 1 | 1 | -- | -- | -- | -- |
| 81400720 | DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE | EACH | 1 | 1 | -- | -- | -- | -- |
| 81900200 | TRENCH AND BACKFILL FOR ELECTRICAL WORK | FOOT | 27 | 27 | -- | -- | -- | -- |
| 85700505 | FULL ACTUATED CONTROLLER IN EXISTING CABINET, SPECIAL | EACH | 1 | 1 | -- | -- | -- | -- |
| 86200300 | UNINTERRUPTIBLE POWER SUPPLY, EXTENDED | EACH | 1 | 1 | -- | -- | -- | -- |
| 86400100 | TRANSCIEVER-FIBER OPTIC | EACH | 1 | 1 | -- | -- | -- | -- |
| 87301215 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 1038 | 1038 | -- | -- | -- | -- |
| 87301225 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 1087 | 1087 | -- | -- | -- | -- |
| 87301245 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 731 | 731 | -- | -- | -- | -- |
| 87301255 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 281 | 281 | -- | -- | -- | -- |
| 87301805 | ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C | FOOT | 179 | 179 | -- | -- | -- | -- |
| 87900100 | DRILL EXISTING FOUNDATION | EACH | 3 | 3 | -- | -- | -- | -- |
| 87900200 | DRILL EXISTING HANDHOLE | EACH | 3 | 3 | -- | -- | -- | -- |
| 88040150 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 1 | 1 | -- | -- | -- | -- |
| 88040160 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 1 | 1 | -- | -- | -- | -- |
| 88200410 | TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 2 | 2 | -- | -- | -- | -- |
| 89500400 | RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON | EACH | 1 | 1 | -- | -- | -- | -- |
| 89502210 | MODIFY EXISTING CONTROLLER CABINET | EACH | 1 | 1 | -- | -- | -- | -- |
| 89502300 | REMOVE ELECTRIC CABLE FROM CONDUIT | FOOT | 2899 | 2899 | -- | -- | -- | -- |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 | 1 | -- | -- | -- | -- |
| X0323336 | LED SIGNAL FACE RETROFIT, RED BALL | EACH | 5 | 5 | -- | -- | -- | -- |
| X0323337 | LED SIGNAL FACE RETROFIT, GREEN BALL | EACH | 5 | 5 | -- | -- | -- | -- |
| X0323418 | LED SIGNAL FACE RETROFIT, YELLOW BALL | EACH | 5 | 5 | -- | -- | -- | -- |
| X8730027 | ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C | FOOT | 561 | 561 | -- | -- | -- | -- |
| X8860100 | LOOP DETECTOR TESTING | EACH | 1 | 1 | -- | -- | -- | -- |
| XX002179 | ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C | FOOT | 416 | 416 | -- | -- | -- | -- |
| XX004444 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED, RETROFIT | EACH | 8 | 8 | -- | -- | -- | -- |
| *3001707 | LIGHT DETECTOR, INSTALLATION ONLY | EACH | 3 | -- | 3 | -- | -- | -- |
| *3001826 | CONFIRMATION BEACON, INSTALLATION ONLY | EACH | 3 | -- | 3 | -- | -- | -- |
| *3001708 | LIGHT DETECTOR AMPLIFIER, INSTALLATION ONLY | EACH | 3 | -- | 3 | -- | -- | -- |

LEGEND

- ① 80% FEDERAL, 20% STATE
- ② 80% FEDERAL, 15% STATE, 5% CITY
- ③ 80% FEDERAL, 13.3% STATE, 6.7% CITY
- ④ 80% FEDERAL, 10% STATE, 10% CITY
- ⑤ 100% CITY

LEGEND

- [Cross-hatched box] SIDEWALK REMOVAL AND REPLACEMENT

| TRAFFIC SIGNALS LEGEND | | |
|------------------------------|------------------------------|----------------------------------|
| EXISTING | PROPOSED | |
| [Square with cross-hatch] | [Square with solid fill] | SERVICE INSTALLATION |
| [Square with diagonal lines] | [Square with diagonal lines] | CONTROLLER CABINET |
| [Dashed line] | [Dashed line] | CONDUIT |
| [Triangle with arrow] | [Triangle with arrow] | SIGNAL HEAD WITH BACKPLATE |
| [Circle] | [Circle] | STEEL MAST ARM |
| [Circle] | [Circle] | TRAFFIC SIGNAL POST |
| [Square] | [Square] | HANDHOLE |
| [Square with diagonal lines] | [Square with diagonal lines] | DOUBLE HANDHOLE |
| [Square with cross-hatch] | [Square with cross-hatch] | PEDESTRIAN SIGNAL HEAD |
| [Circle] | [Circle] | PEDESTRIAN PUSH BUTTON |
| [Triangle] | [Triangle] | EMERGENCY VEHICLE LIGHT DETECTOR |

| REVISIONS | |
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| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL PLAN
 FAP 330 (IL 17)-COURT STREET AND
 FAP 840 (IL 50)-HARRISON AVENUE
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

VERT. 1" = 20'
 SCALE: HORIZ. 1" = 20'
 DATE 6/05

DRAWN BY ARR
 CHECKED BY JLS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|---------|---------------------------|--------------|-----------|
| . | .. | KANKAKEE | 48 | 12 |
| STA. TO STA. | | ILLINOIS FED. AID PROJECT | | |

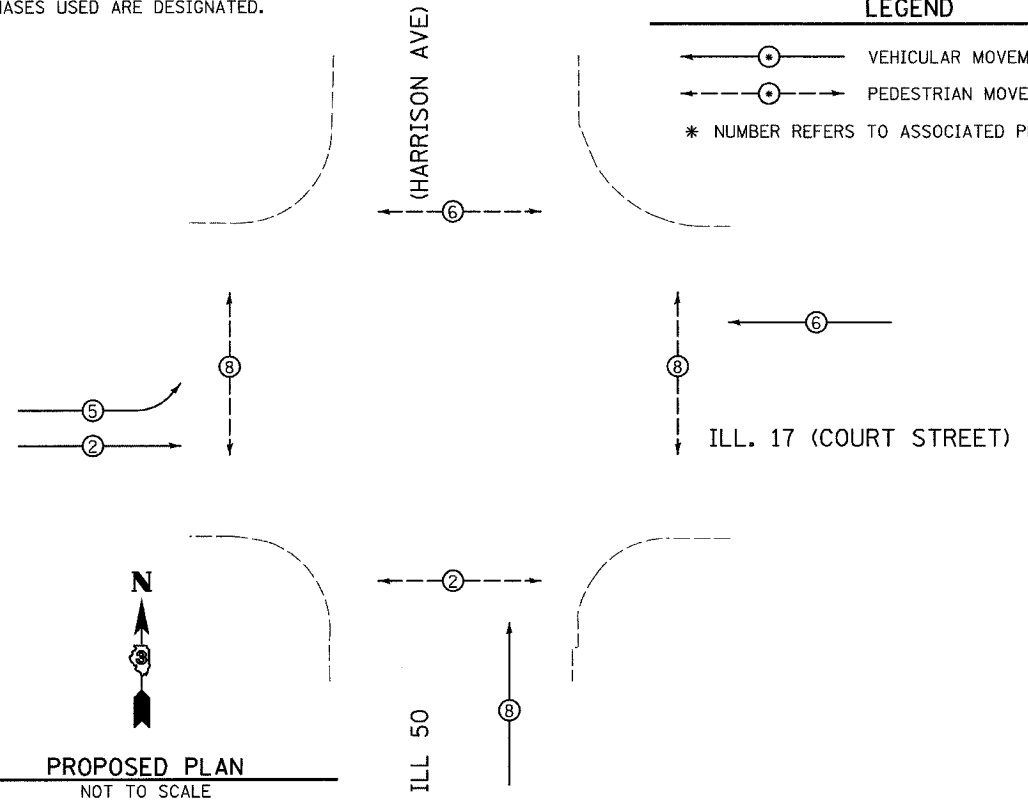
- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

CONTROLLER SEQUENCE

NAME OF INTERSECTION: ILL 17 (COURT STREET) AND ILL 50 (HARRISON AVE)
 CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED.

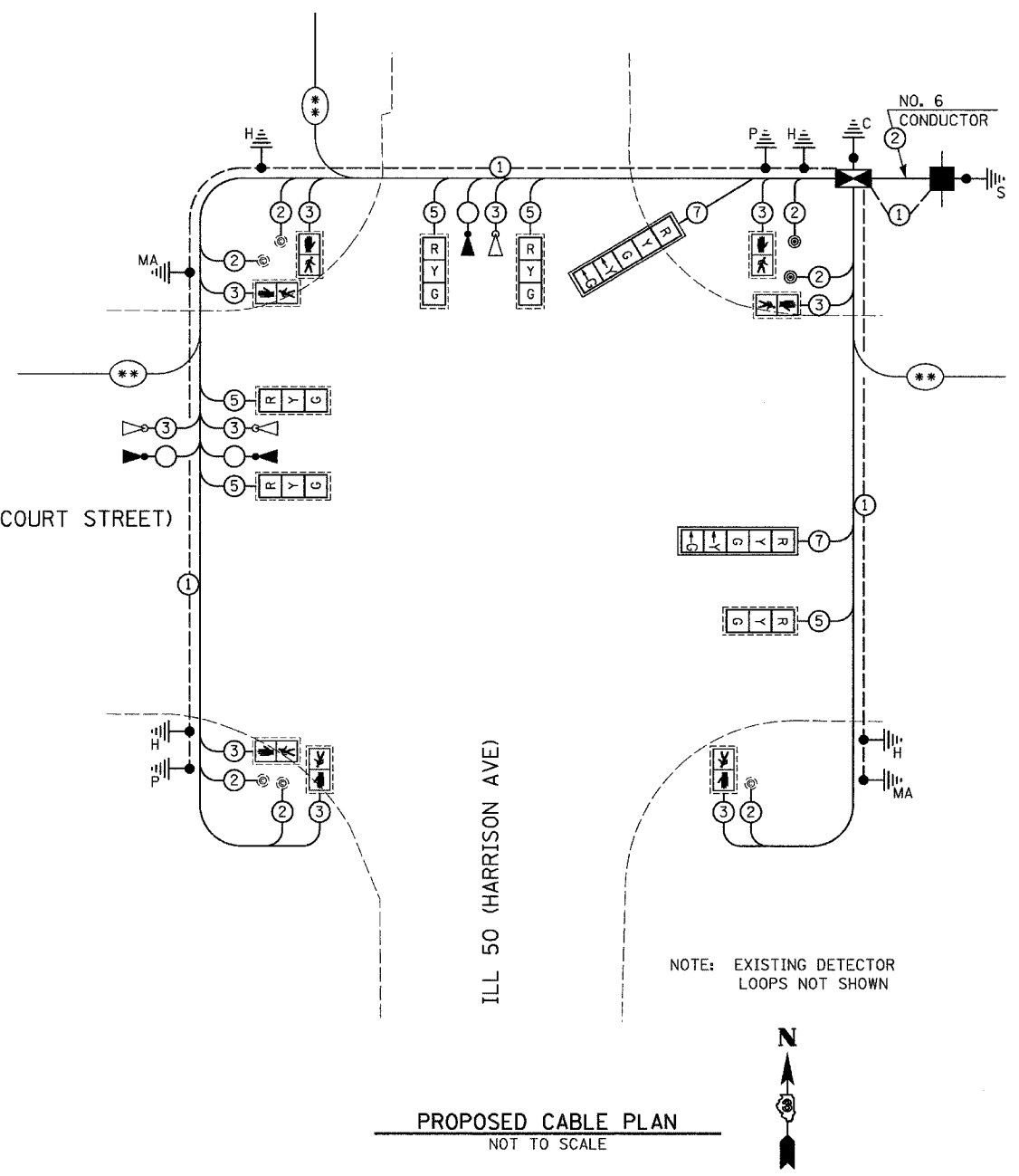
LEGEND

- VEHICULAR MOVEMENT
- PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE



PROPOSED TRAFFIC SIGNALS LEGEND

- PROPOSED CABLE NUMBER
- EMERGENCY VEHICLE CONFIRMATION BEACON
- EMERGENCY VEHICLE LIGHT DETECTOR
- PROPOSED INTERCONNECT CABLE
- PROPOSED SERVICE INSTALLATION
- PEDESTRIAN PUSH BUTTON
- LEFT TURN YELLOW
- LEFT TURN GREEN
- SIGNAL SECTION 12"
- RETROFIT EXISTING PEDESTRIAN HEADS WITH LED HEADS
- TRAFFIC SIGNAL BACKPLATE
- RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS
- GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
- GROUND ROD AT CONTROLLER (C), POST (P), MAST ARM (MA), SERVICE (S), OR HANDHOLE (H)



PLOT DATE = 4/07
 FILE NAME = ILL17-HARRISON-CABLE.DGN
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

| REVISIONS | |
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| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
 FAP 330 (IL 17)-COURT STREET AND
 FAP 840 (IL 50)-HARRISON AVENUE
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 6/05

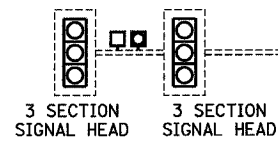
DRAWN BY ARR
 CHECKED BY JLS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------------------|---------|------------------|--------------|-----------|
| * | ** | KANKAKEE | 48 | 13 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. - ILLINOIS | | FED. AID PROJECT | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

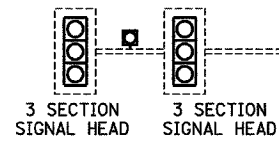
| ELECTRICAL LOAD FOR INTERSECTION | | | | |
|-------------------------------------|---------------------------|-----------|--------------|------------|
| STREET NAME | COMPONENT | NUMBER | WATTAGE EACH | BURNTIME % |
| ILLINOIS ROUTE 17 (COURT STREET) | RED | 5 | 10 | 74 |
| | YELLOW | 5 | 19 | 5 |
| | GREEN | 5 | 14 | 21 |
| | YELLOW ARROW-LT. | 2 | 9 | 5 |
| | GREEN ARROW-LT. | 2 | 3,4 | 21 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| ILLINOIS ROUTE 50 (HARRISON AVENUE) | RED | 2 | 10 | 68 |
| | YELLOW | 2 | 19 | 5 |
| | GREEN | 2 | 14 | 27 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| TRAFFIC SIGNAL CABINET | CONTROLLER | 1 | 6 | 100 |
| | VEHICLE DETECTORS | NOT KNOWN | 4 | 100 |
| | UPS | 1 | 50 | 100 |
| | EMERGENCY VEHICLE PREEMPT | 3 | -- | -- |

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF KANKAKEE



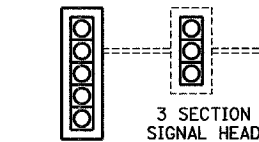
WESTBOUND

NORTHWEST CORNER
NOT TO SCALE



NORTHBOUND

NORTHEAST CORNER
NOT TO SCALE



EASTBOUND

SOUTHEAST CORNER
NOT TO SCALE

NOTE: ALL SIGNAL HEADS HAVE BACKPLATES

ILLINOIS ROUTE 50 (HARRISON AVENUE) / ILLINOIS ROUTE 17 (COURT STREET)

PLOT DATE = 4/07
FILE NAME = tsdts.dgn
PLOT SCALE = 1" = 20'
USER NAME = ARR

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
FAP 330 (IL 17)-COURT STREET AND
FAP 840 (IL 50)-HARRISON AVENUE
SECTION (139 Z, 11) TS-1 & (1) TS-2
KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
HORIZ. 1" = 20'
DATE 6/05

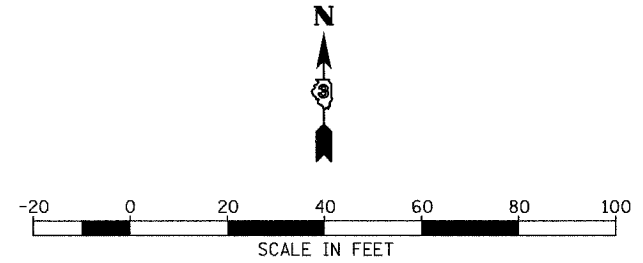
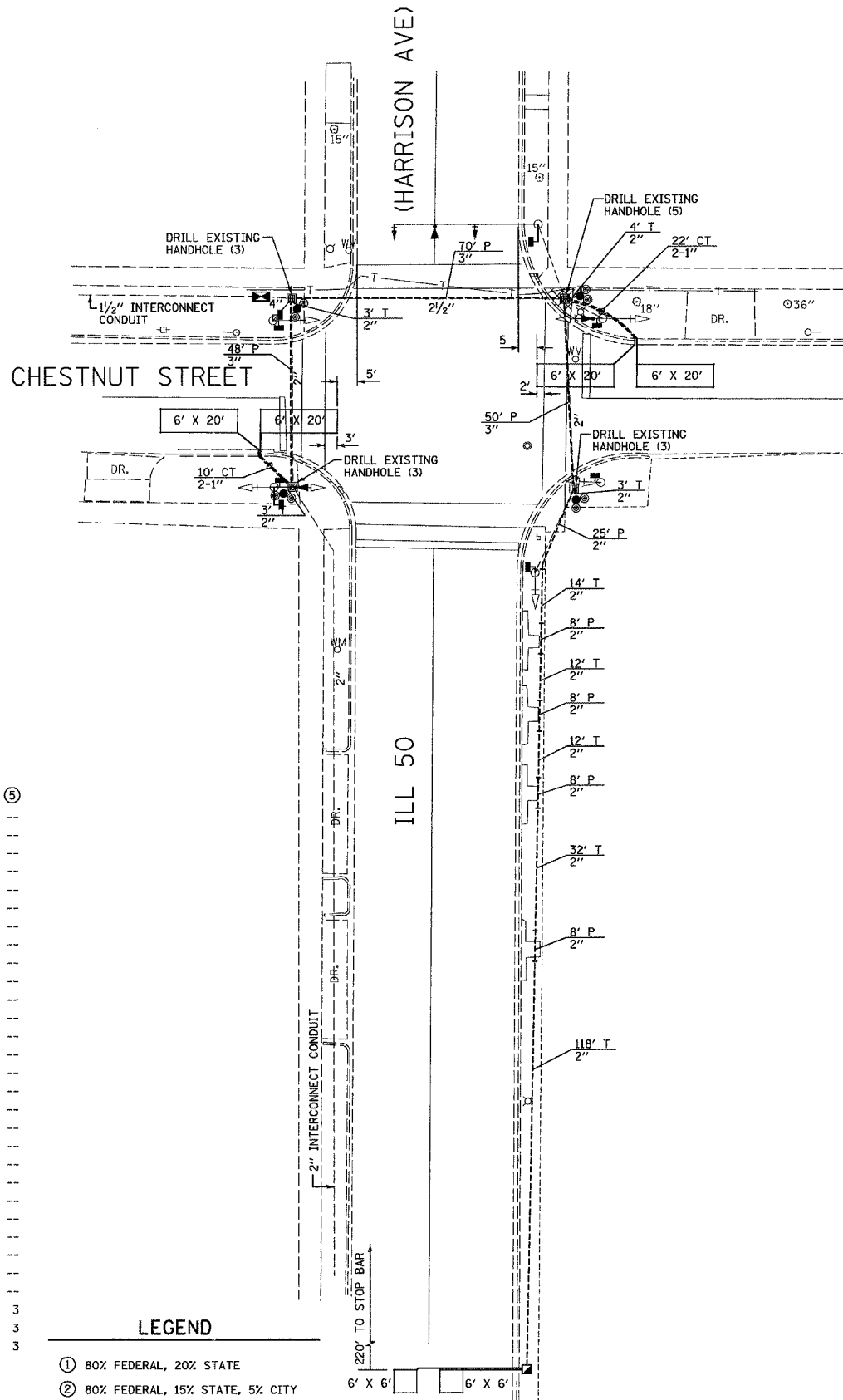
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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| . | . | KANKAKEE | 48 | 14 |
| STA. _____ | | TO STA. _____ | | |
| FED. ROAD DIST. NO. _____ | | ILLINOIS FED. AID PROJECT _____ | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

CONSTRUCTION NOTES:

- INSTALL NEW CONTROLLER AND CABINET ON EXISTING FOUNDATION.
- INSTALL UNINTERRUPTIBLE POWER SUPPLY.
- REMOVE AND REPLACE TWO (2) 3-SECTION, MAST ARM MOUNTED HEADS WITH 3-SECTION LED HEADS.
- REMOVE AND REPLACE EIGHT (8) PEDESTRIAN HEADS WITH LED SYMBOL HEADS.
- RETROFIT THE SEVEN (7) 3-SECTION, BRACKET MOUNTED HEADS WITH LED HEADS.
- INSTALL NEW CABLE IN THE NEW CROSSROAD CONDUITS. THE EXISTING CABLE SHALL REMAIN IN THE EXISTING CROSSROAD CONDUITS.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 2 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
- THE REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT PAY ITEM SHALL BE USED TO FACILITATE THE PLACEMENT OF ADDITIONAL CABLE IN THE EXISTING CONDUIT.
- MOUNT THE EASTBOUND EMERGENCY VEHICLE LIGHT DETECTOR AND CONFIRMATION BEACON ON THE TRAFFIC SIGNAL POST IN THE NORTHEAST CORNER.
- MOUNT THE WESTBOUND EMERGENCY VEHICLE LIGHT DETECTOR AND CONFIRMATION BEACON ON THE TRAFFIC SIGNAL POST IN THE SOUTHWEST CORNER.



SCHEDULE OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ④ | ⑤ |
|----------|--|------|----------------|-----|----|
| 81012300 | CONDUIT IN TRENCH, 1" DIA., PVC | FOOT | 64 | 64 | -- |
| 81012600 | CONDUIT IN TRENCH, 2" DIA., PVC | FOOT | 201 | 201 | -- |
| 81021330 | CONDUIT PUSHED, 2" DIA., PVC | FOOT | 57 | 57 | -- |
| 81021350 | CONDUIT PUSHED, 3" DIA., PVC | FOOT | 168 | 168 | -- |
| 81400700 | HANDHOLE, PORTLAND CEMENT CONCRETE | EACH | 1 | 1 | -- |
| 81900200 | TRENCH AND BACKFILL FOR ELECTRICAL WORK | FOOT | 233 | 233 | -- |
| 85700205 | FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL | EACH | 1 | 1 | -- |
| 86200300 | UNINTERRUPTIBLE POWER SUPPLY, EXTENDED | EACH | 1 | 1 | -- |
| 86400100 | TRANSCIEVER-FIBER OPTIC | EACH | 1 | 1 | -- |
| 87301215 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 790 | 790 | -- |
| 87301305 | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 568 | 568 | -- |
| 87602000 | PEDESTRIAN PUSH-BUTTON POST | EACH | 4 | 4 | -- |
| 87900200 | DRILL EXISTING HANDHOLE | EACH | 14 | 14 | -- |
| 88040090 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 2 | 2 | -- |
| 88102710 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED | EACH | 8 | 8 | -- |
| 88200410 | TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 2 | 2 | -- |
| 88500100 | INDUCTIVE LOOP DETECTOR | EACH | 3 | 3 | -- |
| 88600100 | DETECTOR LOOP, TYPE 1 | FOOT | 329 | 329 | -- |
| 88800100 | PEDESTRIAN PUSH-BUTTON | EACH | 8 | 8 | -- |
| 89502350 | REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT | FOOT | 710 | 710 | -- |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 | 1 | -- |
| X0323336 | LED SIGNAL FACE RETROFIT, RED BALL | EACH | 7 | 7 | -- |
| X0323337 | LED SIGNAL FACE RETROFIT, GREEN BALL | EACH | 7 | 7 | -- |
| X0323418 | LED SIGNAL FACE RETROFIT, YELLOW BALL | EACH | 7 | 7 | -- |
| X8730027 | ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C | FOOT | 344 | 344 | -- |
| X8860100 | LOOP DETECTOR TESTING | EACH | 1 | 1 | -- |
| XX002179 | ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C | FOOT | 391 | 391 | -- |
| *3001707 | LIGHT DETECTOR, INSTALLATION ONLY | EACH | 3 | -- | 3 |
| *3001826 | CONFIRMATION BEACON, INSTALLATION ONLY | EACH | 3 | -- | 3 |
| *3001708 | LIGHT DETECTOR AMPLIFIER, INSTALLATION ONLY | EACH | 3 | -- | 3 |

LEGEND

- ① 80% FEDERAL, 20% STATE
- ② 80% FEDERAL, 15% STATE, 5% CITY
- ③ 80% FEDERAL, 13.3% STATE, 6.7% CITY
- ④ 80% FEDERAL, 10% STATE, 10% CITY
- ⑤ 100% CITY

TRAFFIC SIGNALS LEGEND

| EXISTING | PROPOSED | |
|----------|----------|----------------------------------|
| | | SERVICE INSTALLATION |
| | | CONTROLLER CABINET |
| | | CONDUIT |
| | | SIGNAL HEAD WITH BACKPLATE |
| | | STEEL MAST ARM |
| | | TRAFFIC SIGNAL POST |
| | | HANDHOLE |
| | | DOUBLE HANDHOLE |
| | | PEDESTRIAN SIGNAL HEAD |
| | | PEDESTRIAN PUSH BUTTON |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |

| REVISIONS | |
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| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL PLAN
 FAP 840 (IL 50)-HARRISON AVENUE
 AND CHESTNUT STREET
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

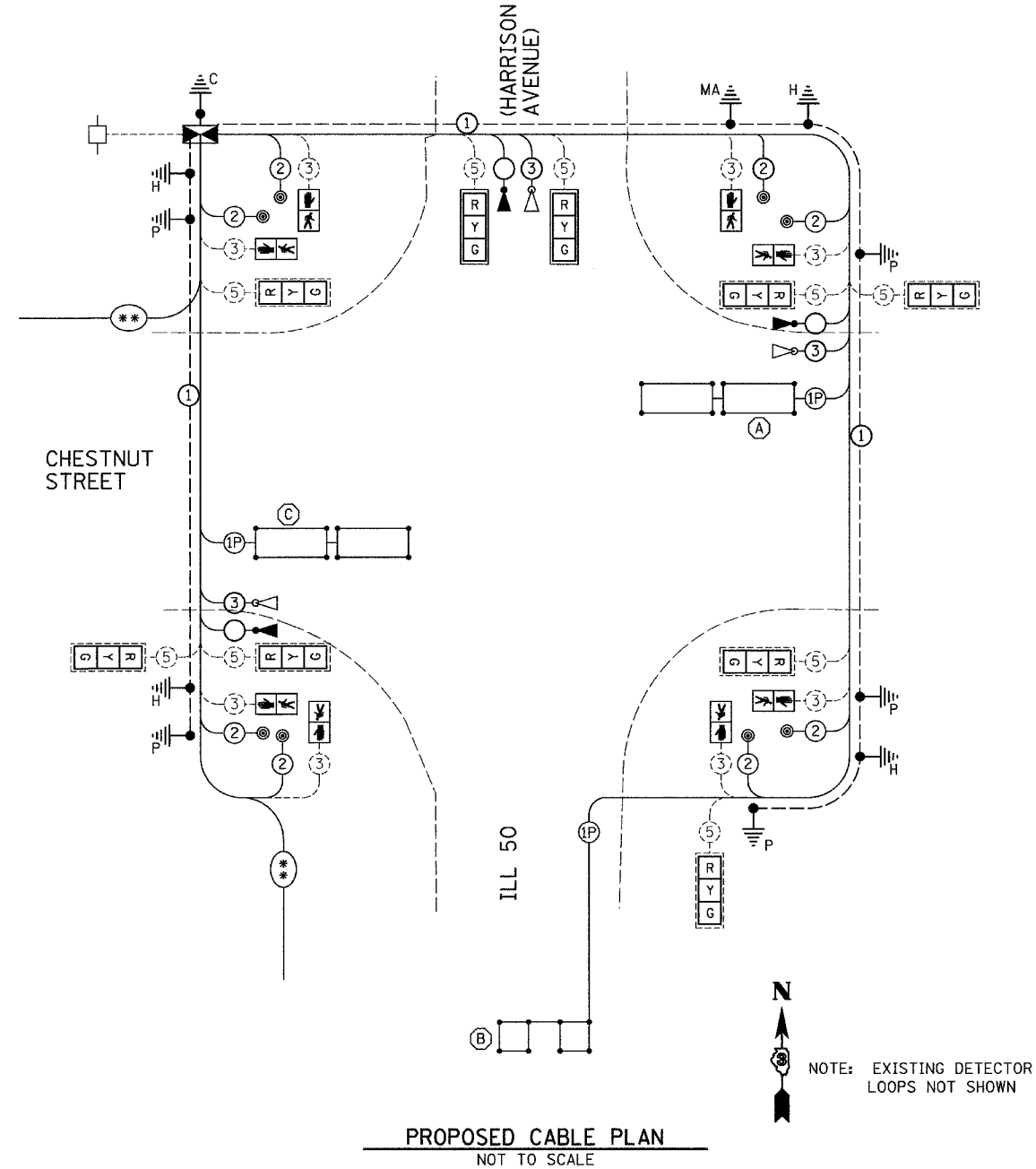
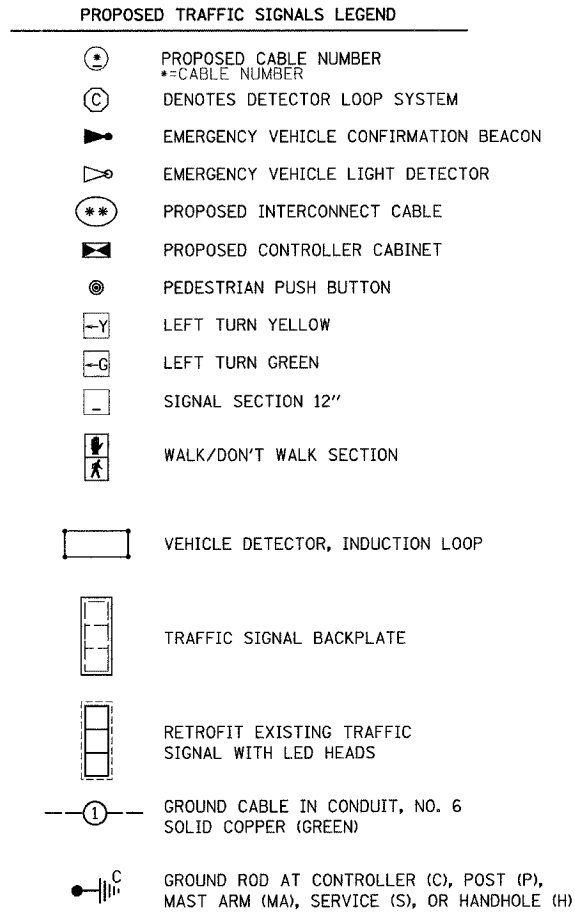
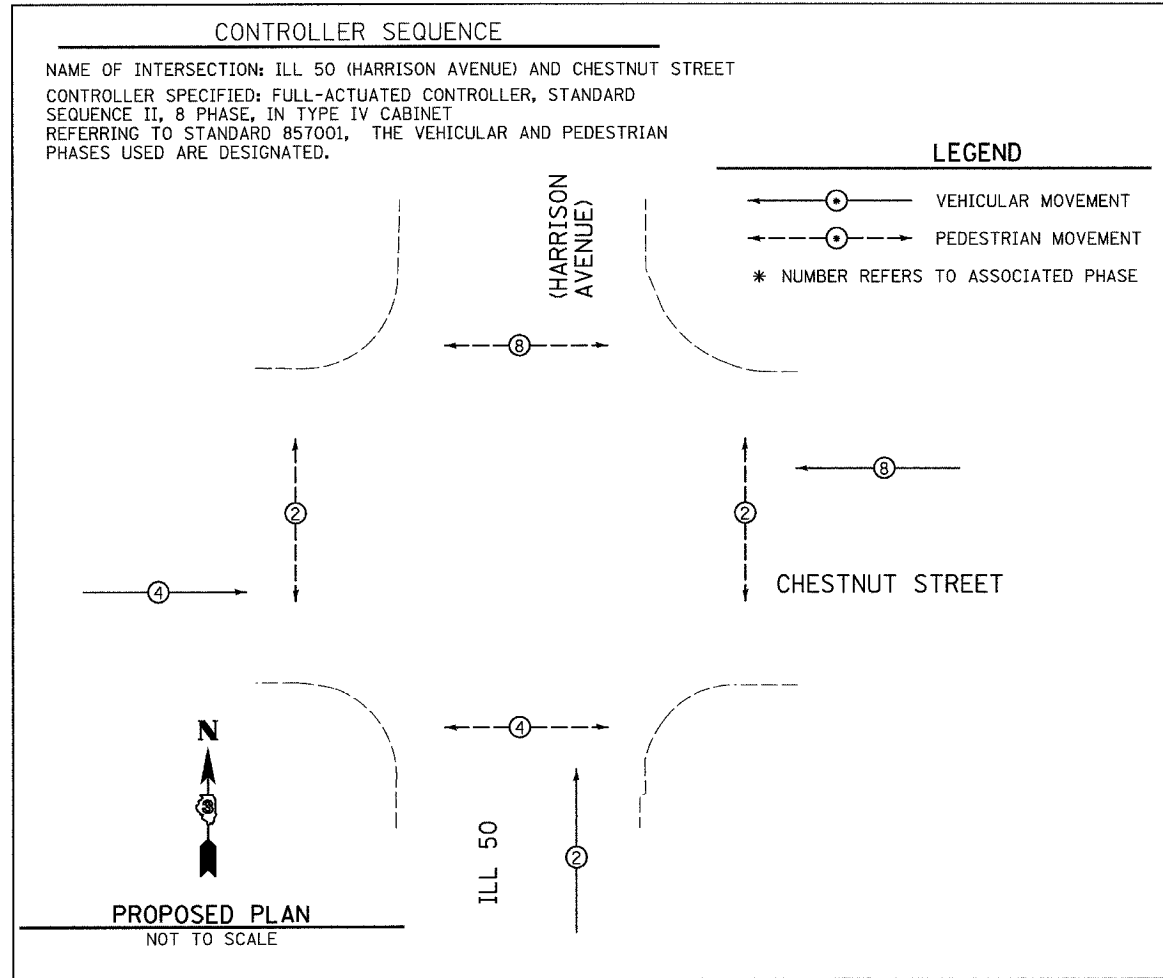
SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'

DATE 6/05

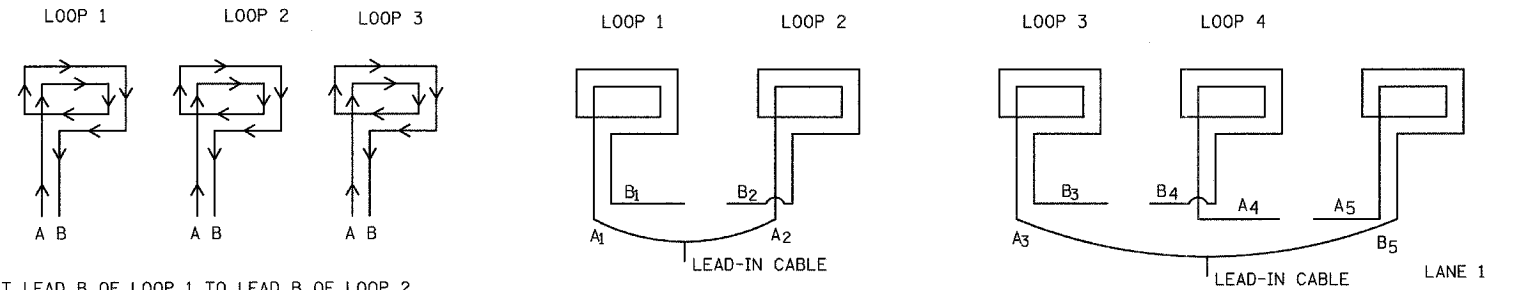
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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|---------------------------|--------------|-----------|
| . | . | KANKAKEE | 48 | 15 |
| STA. TO STA. | | ILLINOIS FED. AID PROJECT | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2



STEP 1
 WIND ALL LOOPS CLOCKWISE. LABEL BEGINNING END OF CABLE A.
 LABEL ENDING END OF CABLE B. FOLLOW DETECTOR LOOP CABLE
 MANUFACTURER'S INSTRUCTIONS ON NUMBER OF TURNS FOR LOOP.



STEP 2
 CONNECT LEAD B OF LOOP 1 TO LEAD B OF LOOP 2.
 CONNECT LEAD A OF LOOP 2 TO LEAD A OF LOOP 3.

DETECTOR LOOP WINDING AND SERIES SPLICING DETAIL
 (SEE DETECTOR LOOP INDUCTANCE CHART FOR NUMBER OF TURNS)

| REVISIONS | | |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
 FAP 840 (IL 50)-HARRISON AVENUE
 AND CHESTNUT STREET
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
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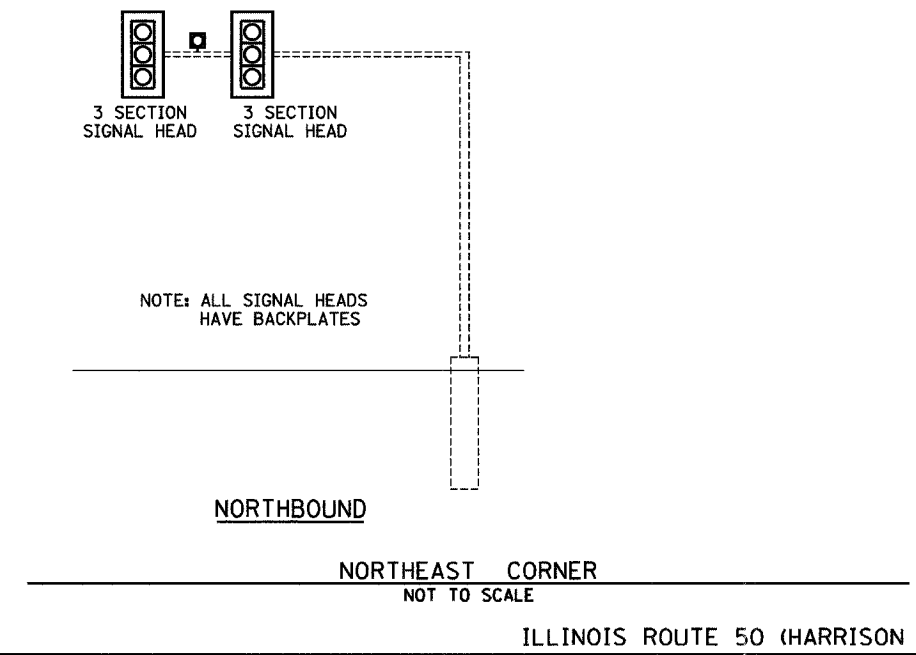
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| * | * | KANKAKEE | 48 | 16 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

| DETECTOR LOOP SYSTEM | 0 | LOCATION | TURNS PER LOOP | INDUCTANCE READING (MICROHENRIES) | FREQUENCY (HERTZ) | J PIN STATUS |
|----------------------|---|----------|----------------|-----------------------------------|-------------------|--------------|
| A | 8 | WB | 4 | 548 | 26,072 | ON |
| B | 2 | NB FAR | 6 | 597 | 24,979 | ON |
| C | 4 | EB | 4 | 540 | 26,264 | ON |

| STREET NAME | COMPONENT | NUMBER | WATTAGE EACH | BURNTIME % |
|-------------------------------------|---------------------------|--------|--------------|------------|
| ILLINOIS ROUTE 50 (HARRISON AVENUE) | RED | 3 | 10 | 68 |
| | YELLOW | 3 | 19 | 5 |
| | GREEN | 3 | 14 | 27 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| CHESTNUT STREET | RED | 6 | 10 | 74 |
| | YELLOW | 6 | 19 | 5 |
| | GREEN | 6 | 14 | 21 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| TRAFFIC SIGNAL CABINET | CONTROLLER | 1 | 6 | 100 |
| | VEHICLE DETECTORS | 7 | 4 | 100 |
| | UPS | 1 | 50 | 100 |
| | EMERGENCY VEHICLE PREEMPT | 3 | -- | -- |
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AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF KANKAKEE



| NAME | DATE |
|------|------|
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
FAP 840 (IL 50)-HARRISON AVENUE
AND CHESTNUT STREET
SECTION (139 Z, 11) TS-1 & (1) TS-2
KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
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DATE 6/05

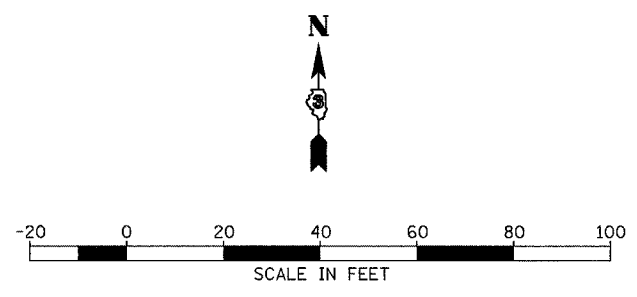
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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------|---------------|--------------|-----------|
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| STA. _____ | | TO STA. _____ | | |
| FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT | | | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

CONSTRUCTION NOTES:

- REMOVE EXISTING CONTROLLER, CABINET AND FOUNDATION.
- INSTALL NEW CONTROLLER AND CABINET. INSTALL UNINTERRUPTIBLE POWER SUPPLY.
- RETROFIT ONE (1) 3-SECTION BRACKET MOUNTED HEAD WITH LED HEAD IN THE SOUTHEAST CORNER.
- REPLACE THREE (3) 3-SECTION BRACKET-MOUNTED HEADS AND TWO (2) 3-SECTION MAST ARM MOUNTED HEADS WITH LED HEADS.
- REPLACE EIGHT (8) PEDESTRIAN HEADS WITH LED SYMBOL HEADS.
- INSTALL NEW CABLE IN THE NEW CROSSROAD CONDUITS. EXISTING CABLE SHALL REMAIN IN THE EXISTING CROSSROAD CONDUITS.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 2 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 3 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, BRACKET MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
- THE REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT PAY ITEM SHALL BE USED TO FACILITATE THE PLACEMENT OF ADDITIONAL CABLE IN THE EXISTING CONDUIT.
- MOUNT THE EASTBOUND AND THE WESTBOUND EMERGENCY VEHICLE LIGHT DETECTOR AND CONFIRMATION BEACON ON THE TRAFFIC SIGNAL POST IN THE NORTHEAST CORNER.

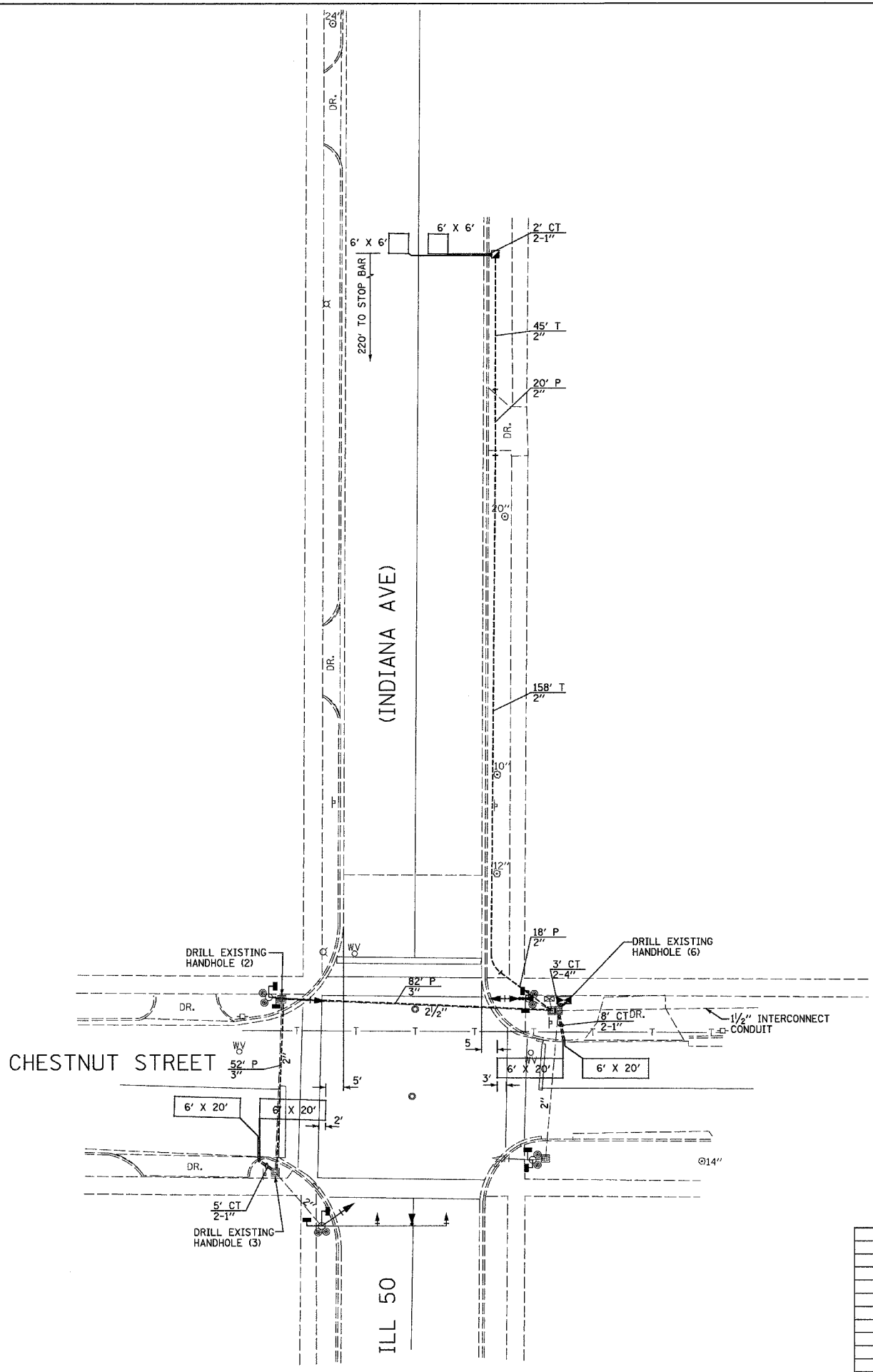


SCHEDULE OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ④ | ⑤ |
|----------|--|------|----------------|-------|----|
| 81012300 | CONDUIT IN TRENCH, 1" DIA., PVC | FOOT | 30 | 30 | -- |
| 81012600 | CONDUIT IN TRENCH, 2" DIA., PVC | FOOT | 203 | 203 | -- |
| 81013000 | CONDUIT IN TRENCH, 4" DIA., PVC | FOOT | 6 | 6 | -- |
| 81021330 | CONDUIT PUSHED, 2" DIA., PVC | FOOT | 38 | 38 | -- |
| 81021350 | CONDUIT PUSHED, 3" DIA., PVC | FOOT | 134 | 134 | -- |
| 81400700 | HANDHOLE, PORTLAND CEMENT CONCRETE | EACH | 1 | 1 | -- |
| 81900200 | TRENCH AND BACKFILL FOR ELECTRICAL WORK | FOOT | 226 | 226 | -- |
| 85700205 | FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL | EACH | 1 | 1 | -- |
| 86200300 | UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 | 1 | -- |
| 86400100 | TRANSCEIVER-FIBER OPTIC | EACH | 1 | 1 | -- |
| 87301215 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 898 | 898 | -- |
| 87301305 | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1PAIR | FOOT | 452 | 452 | -- |
| 87800150 | CONCRETE FOUNDATION, TYPE C | FOOT | 3.5 | 3.5 | -- |
| 87900200 | DRILL EXISTING HANDHOLE | EACH | 11 | 11 | -- |
| 88040070 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 3 | 3 | -- |
| 88040090 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 2 | 2 | -- |
| 88102710 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED | EACH | 8 | 8 | -- |
| 88200410 | TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 5 | 5 | -- |
| 88500100 | INDUCTIVE LOOP DETECTOR | EACH | 3 | 3 | -- |
| 88600100 | DETECTOR LOOP, TYPE 1 | FOOT | 338 | 338 | -- |
| 88800100 | PEDESTRIAN PUSH-BUTTON | EACH | 8 | 8 | -- |
| 89502350 | REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT | FOOT | 737 | 737 | -- |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 | 1 | -- |
| 89502385 | REMOVE EXISTING CONCRETE FOUNDATION | EACH | 1 | 1 | -- |
| X0323336 | LED SIGNAL FACE RETROFIT, RED BALL | EACH | 1 | 1 | -- |
| X0323337 | LED SIGNAL FACE RETROFIT, GREEN BALL | EACH | 1 | 1 | -- |
| X0323418 | LED SIGNAL FACE RETROFIT, YELLOW BALL | EACH | 1 | 1 | -- |
| X8730027 | ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C | FOOT | 292.5 | 292.5 | -- |
| XX002179 | ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C | FOOT | 337 | 337 | -- |
| *3001707 | LIGHT DETECTOR, INSTALLATION ONLY | EACH | 3 | -- | 3 |
| *3001826 | CONFIRMATION BEACON, INSTALLATION ONLY | EACH | 3 | -- | 3 |
| *3001708 | LIGHT DETECTOR AMPLIFIER, INSTALLATION ONLY | EACH | 3 | -- | 3 |

LEGEND

- ① 80% FEDERAL, 20% STATE
- ② 80% FEDERAL, 15% STATE, 5% CITY
- ③ 80% FEDERAL, 13.3% STATE, 6.7% CITY
- ④ 80% FEDERAL, 10% STATE, 10% CITY
- ⑤ 100% CITY



TRAFFIC SIGNALS LEGEND

| EXISTING | PROPOSED | DESCRIPTION |
|----------|----------|----------------------------------|
| □ | ■ | SERVICE INSTALLATION |
| ⊠ | ⊠ | CONTROLLER CABINET |
| --- | --- | CONDUIT |
| + | + | SIGNAL HEAD WITH BACKPLATE |
| ○ | ● | STEEL MAST ARM |
| ○ | ● | TRAFFIC SIGNAL POST |
| ⊠ | ⊠ | HANDHOLE |
| ⊠ | ⊠ | DOUBLE HANDHOLE |
| ⊠ | ⊠ | PEDESTRIAN SIGNAL HEAD |
| ● | ● | PEDESTRIAN PUSH BUTTON |
| ▲ | ▲ | EMERGENCY VEHICLE LIGHT DETECTOR |

REVISIONS

| NAME | DATE |
|------|------|
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL PLAN
 FAP 840 (IL 50)-INDIANA AVENUE
 AND CHESTNUT STREET
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 6/05

DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 4/07
 FILE NAME = CHESTNUT-INDIANA.DGN
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------------------|---------|------------------|--------------|-----------|
| * | ** | KANKAKEE | 48 | 18 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. - ILLINOIS | | FED. AID PROJECT | | |

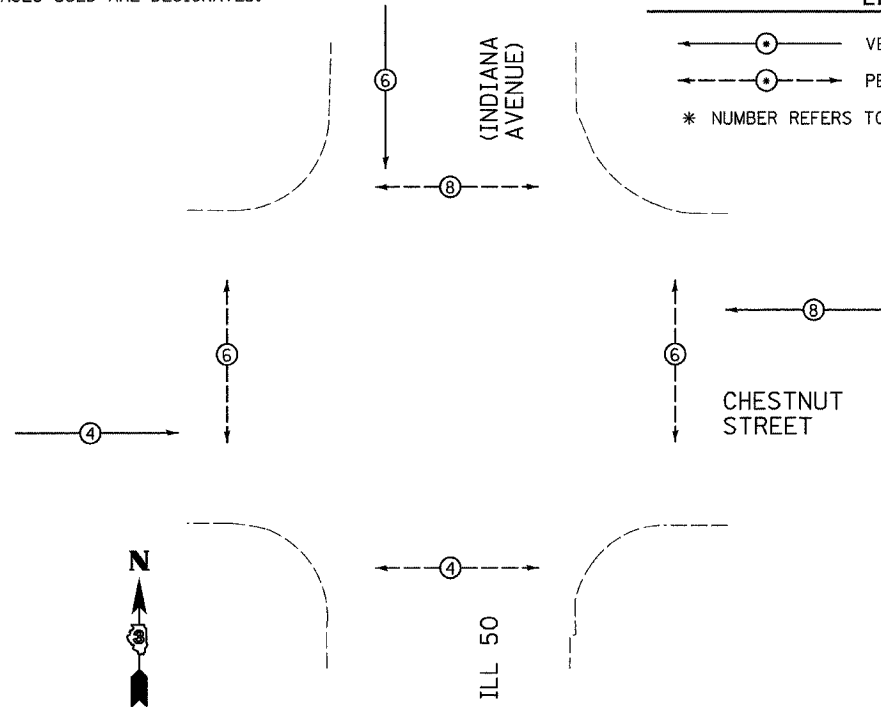
- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

CONTROLLER SEQUENCE

NAME OF INTERSECTION: ILL 50 (INDIANA AVENUE) AND CHESTNUT STREET
 CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED.

LEGEND

- VEHICULAR MOVEMENT
- PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE

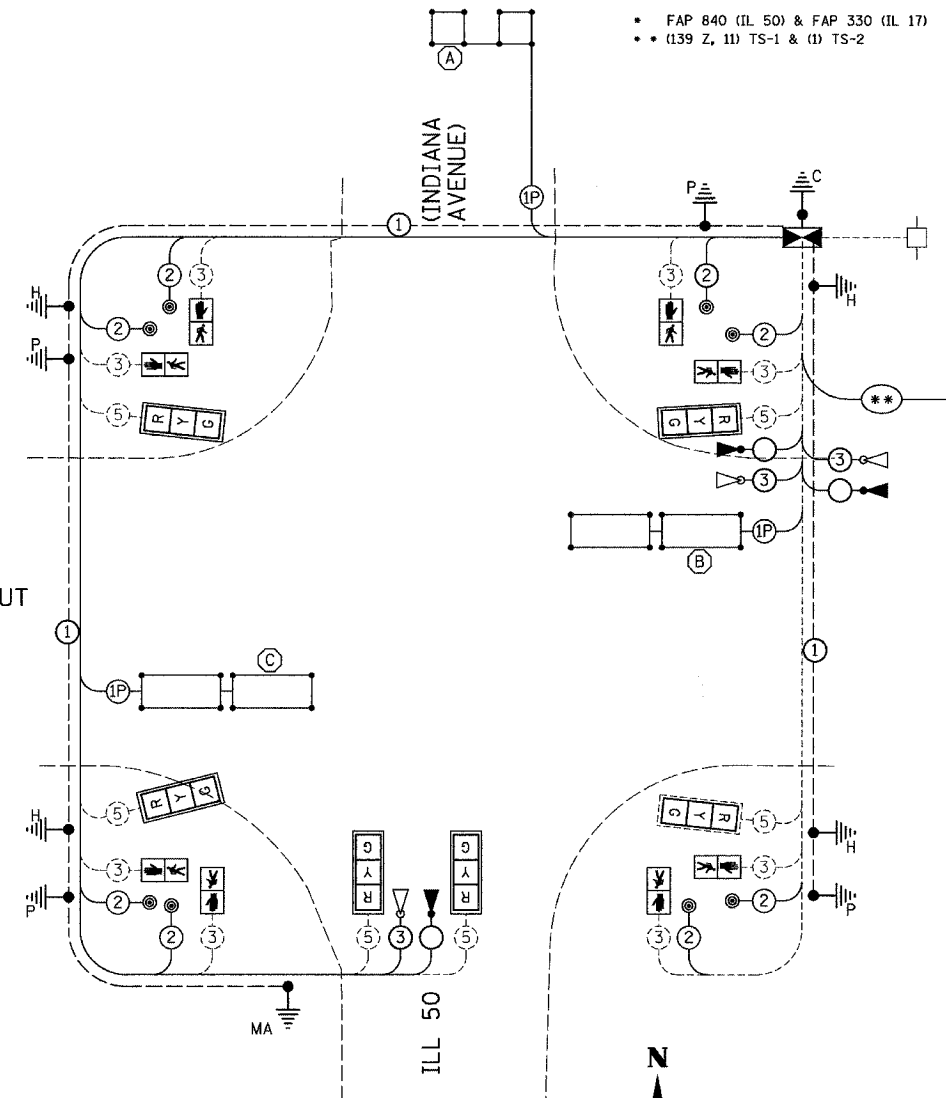


PROPOSED PLAN
NOT TO SCALE

PROPOSED TRAFFIC SIGNALS LEGEND

- PROPOSED CABLE NUMBER
- DENOTES DETECTOR LOOP SYSTEM
- EMERGENCY VEHICLE CONFIRMATION BEACON
- EMERGENCY VEHICLE LIGHT DETECTOR
- PROPOSED INTERCONNECT CABLE
- PROPOSED CONTROLLER CABINET
- PEDESTRIAN PUSH BUTTON
- LEFT TURN YELLOW
- LEFT TURN GREEN
- SIGNAL SECTION 12"
- WALK/DON'T WALK SECTION
- VEHICLE DETECTOR, INDUCTION LOOP
- TRAFFIC SIGNAL BACKPLATE
- RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS
- GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
- GROUND ROD AT CONTROLLER (C), POST (P), MAST ARM (MA), SERVICE (S), OR HANDHOLE (H)

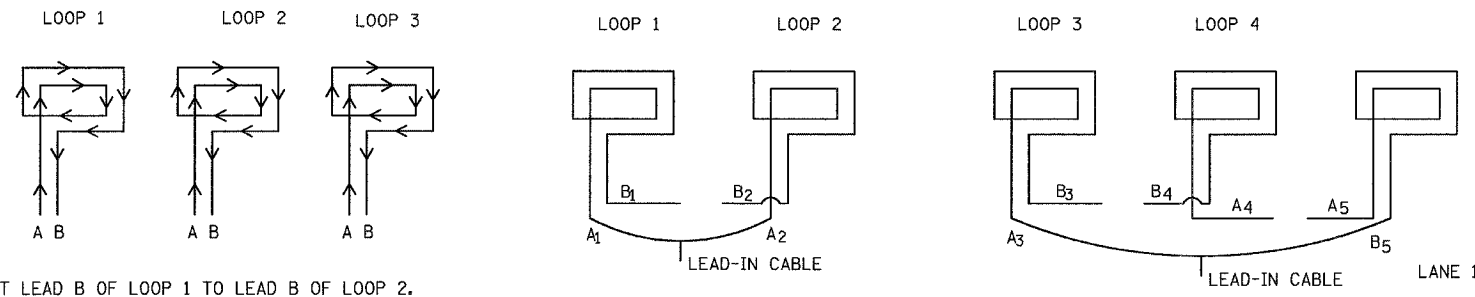
CHESTNUT STREET



PROPOSED CABLE PLAN
NOT TO SCALE

NOTE: EXISTING DETECTOR LOOPS NOT SHOWN

STEP 1
 WIND ALL LOOPS CLOCKWISE. LABEL BEGINNING END OF CABLE A. LABEL ENDING END OF CABLE B. FOLLOW DETECTOR LOOP CABLE MANUFACTURER'S INSTRUCTIONS ON NUMBER OF TURNS FOR LOOP.



STEP 2
 CONNECT LEAD B OF LOOP 1 TO LEAD B OF LOOP 2.
 CONNECT LEAD A OF LOOP 2 TO LEAD A OF LOOP 3.

DETECTOR LOOP WINDING AND SERIES SPLICING DETAIL
 (SEE DETECTOR LOOP INDUCTANCE CHART FOR NUMBER OF TURNS)

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
 CABLE PLAN
 FAP 840 (IL 50)-INDIANA AVENUE
 AND CHESTNUT STREET
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'

DATE 6/05

DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 4/07
 FILE NAME = CHESTNUT-INDIANA-CABLE.DGN
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

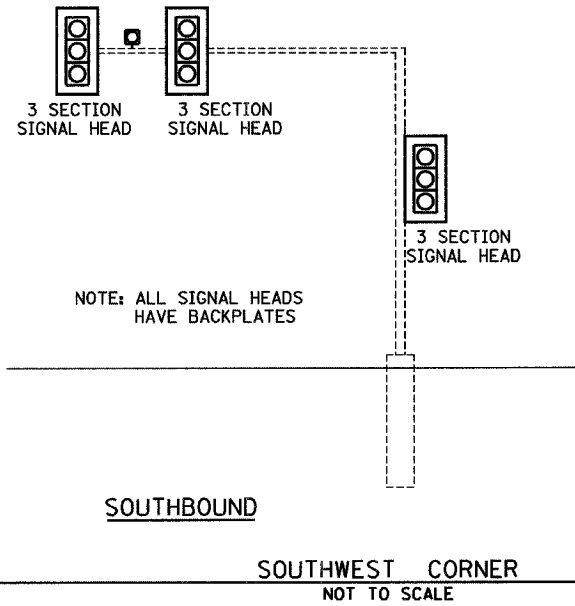
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|---------------------|---------|----------|------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| • | • | KANKAKEE | 48 | 19 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

| DETECTOR LOOP SYSTEM | 0 | LOCATION | TURNS PER LOOP | INDUCTANCE READING (MICROHENRIES) | FREQUENCY (HERTZ) | J PIN STATUS |
|----------------------|---|----------|----------------|-----------------------------------|-------------------|--------------|
| A | 6 | SB FAR | 5 | 421 | 29,746 | ON |
| B | 8 | WB | 4 | 527 | 26,586 | ON |
| C | 4 | EB | 4 | 560 | 25,791 | ON |

| STREET NAME | COMPONENT | NUMBER | WATTAGE EACH | BURNTIME % |
|------------------------------------|---------------------------|--------|--------------|------------|
| ILLINOIS ROUTE 50 (INDIANA AVENUE) | RED | 2 | 10 | 68 |
| | YELLOW | 2 | 19 | 5 |
| | GREEN | 2 | 14 | 27 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| CHESTNUT STREET | RED | 4 | 10 | 74 |
| | YELLOW | 4 | 19 | 5 |
| | GREEN | 4 | 14 | 21 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| TRAFFIC SIGNAL CABINET | CONTROLLER | 1 | 6 | 100 |
| | VEHICLE DETECTORS | 3 | 4 | 100 |
| | UPS | 1 | 50 | 100 |
| | EMERGENCY VEHICLE PREEMPT | 3 | -- | -- |
| | | | | |

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF KANKAKEE



ILLINOIS ROUTE 50 (INDIANA AVENUE) / CHESTNUT STREET

| NAME | DATE |
|------|------|
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
FAP 840 (IL 50)-INDIANA AVENUE
AND CHESTNUT STREET
SECTION (139 Z, 11) TS-1 & (1) TS-2
KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
HORIZ. 1" = 20'
DATE 6/05

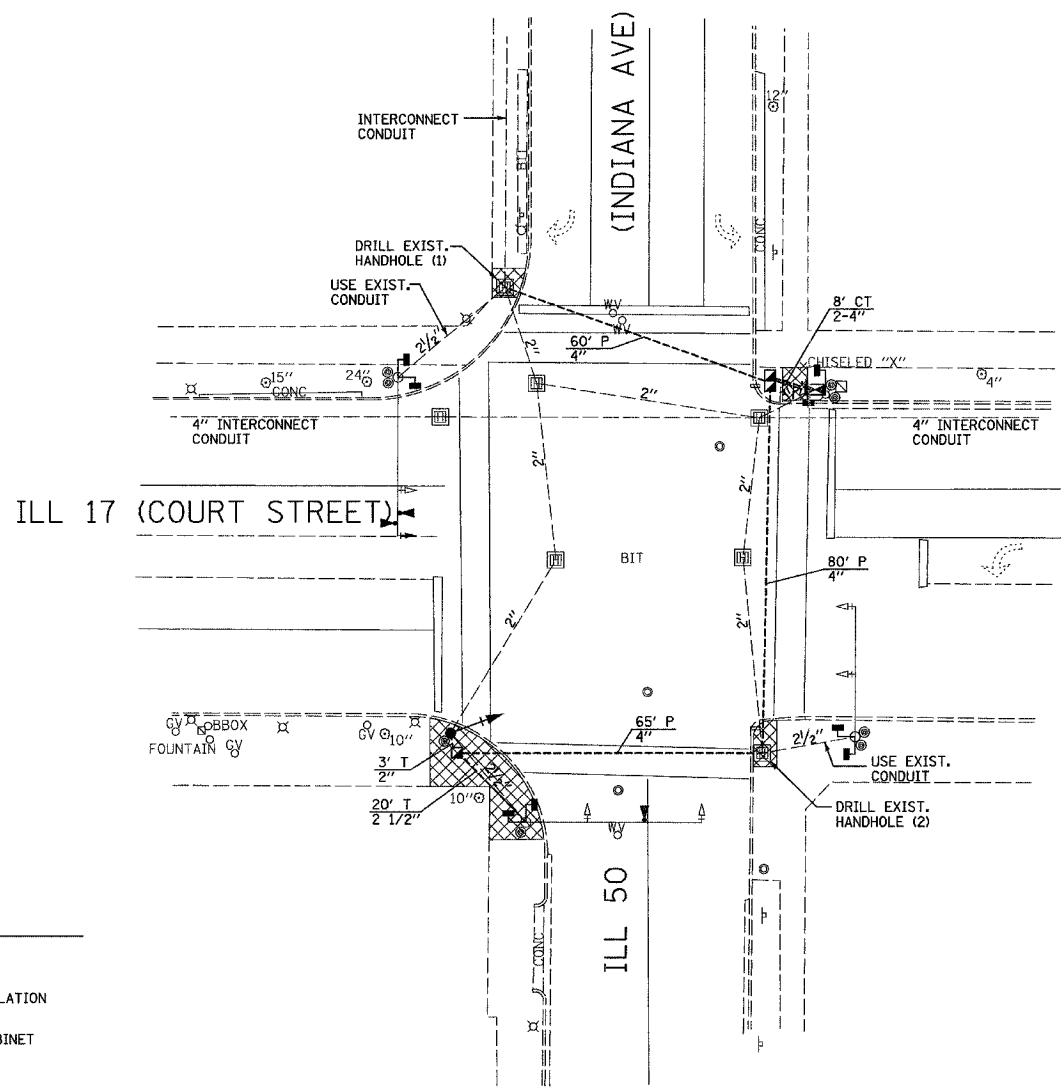
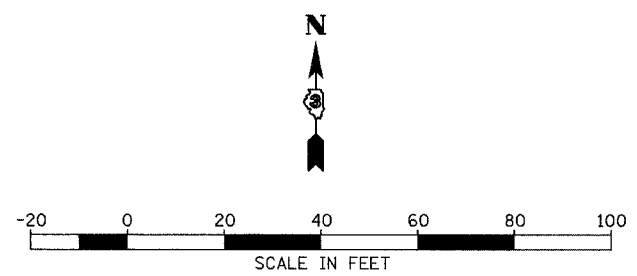
DRAWN BY ARR
CHECKED BY JLS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|---------|---|--------------|-----------|
| • | •• | KANKAKEE | 48 | 20 |
| STA. TO STA. | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER AND CABINET ON EXISTING FOUNDATION. INSTALL UNINTERRUPTIBLE POWER SUPPLY.
- REMOVE AND REPLACE TRAFFIC SIGNAL POST ON EXISTING FOUNDATION IN SOUTHWEST CORNER. REMOVE 4-SECTION HEAD AND REPLACE WITH 5-SECTION LED HEAD. REMOVE AND REPLACE PEDESTRIAN PUSH - BUTTON.
- REPLACE 4-SECTION ON MAST ARM IN NORTHWEST CORNER WITH 5-SECTION LED HEAD.
- RETROFIT FIVE (5) 3-SECTION MAST ARM MOUNTED HEADS WITH LED HEADS.
- REMOVE AND REPLACE EIGHT (8) PEDESTRIAN HEADS WITH LED SYMBOL HEADS.
- REMOVE AND REPLACE SERVICE ON EXISTING POLE.
- REMOVE EXISTING CABLE AND INSTALL NEW CABLE IN NEW CONDUIT. EXCEPT WHERE NOTED
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 1 EACH - TRAFFIC SIGNAL POST
 - 1 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED
 - 1 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
 - 1 EACH - ELECTRICAL SERVICE

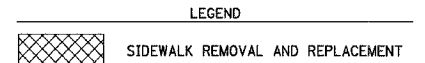


SCHEDULE OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ① | ⑤ |
|----------|--|-------|----------------|------|----|
| 42400100 | PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH | SQ FT | 450 | 450 | -- |
| 42400800 | DETECTABLE WARNINGS | SQ FT | 55 | 55 | -- |
| 44000600 | SIDEWALK REMOVAL | SQ FT | 450 | 450 | -- |
| 80500200 | SERVICE INSTALLATION, TYPE B | EACH | 1 | 1 | -- |
| 81012600 | CONDUIT IN TRENCH, 2" DIA., PVC | FOOT | 3 | 3 | -- |
| 81012700 | CONDUIT IN TRENCH, 2 1/2" DIA., PVC | FOOT | 20 | 20 | -- |
| 81013000 | CONDUIT IN TRENCH, 4" DIA., PVC | FOOT | 16 | 16 | -- |
| 81021370 | CONDUIT PUSHED, 4" DIA., PVC | FOOT | 205 | 205 | -- |
| 81400700 | HANDHOLE, PORTLAND CEMENT CONCRETE | EACH | 1 | 1 | -- |
| 81400720 | DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE | EACH | 1 | 1 | -- |
| 81900200 | TRENCH AND BACKFILL FOR ELECTRICAL WORK | FOOT | 31 | 31 | -- |
| 85700205 | FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL | EACH | 1 | 1 | -- |
| 86000100 | MASTER CONTROLLER | EACH | 1 | 1 | -- |
| 86200300 | UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 | 1 | -- |
| 86400100 | TRANSCEIVER-FIBER OPTIC | EACH | 1 | 1 | -- |
| 87301215 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 997 | 997 | -- |
| 87301225 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 1070 | 1070 | -- |
| 87301245 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 1049 | 1049 | -- |
| 87301255 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 388 | 388 | -- |
| 87502500 | TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 1 | 1 | -- |
| 87900200 | DRILL EXISTING HANDHOLE | EACH | 3 | 3 | -- |
| 88040150 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 1 | 1 | -- |
| 88040160 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 1 | 1 | -- |
| 88102710 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED | EACH | 8 | 8 | -- |
| 88200410 | TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 2 | 2 | -- |
| 88500100 | INDUCTIVE LOOP DETECTOR | EACH | 2 | 2 | -- |
| 88800100 | PEDESTRIAN PUSH-BUTTON | EACH | 1 | 1 | -- |
| 89502300 | REMOVE ELECTRIC CABLE FROM CONDUIT | FOOT | 3562 | 3562 | -- |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 | 1 | -- |
| X0323336 | LED SIGNAL FACE RETROFIT, RED BALL | EACH | 5 | 5 | -- |
| X0323337 | LED SIGNAL FACE RETROFIT, GREEN BALL | EACH | 5 | 5 | -- |
| X0323418 | LED SIGNAL FACE RETROFIT, YELLOW BALL | EACH | 5 | 5 | -- |
| X8730027 | ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C | FOOT | 365 | 365 | -- |
| X8860100 | LOOP DETECTOR TESTING | EACH | 1 | 1 | -- |
| XX002179 | ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C | FOOT | 614 | 614 | -- |
| *3001707 | LIGHT DETECTOR, INSTALLATION ONLY | EACH | 3 | -- | 3 |
| *3001826 | CONFIRMATION BEACON, INSTALLATION ONLY | EACH | 3 | -- | 3 |
| *3001708 | LIGHT DETECTOR AMPLIFIER, INSTALLATION ONLY | EACH | 3 | -- | 3 |

TRAFFIC SIGNALS LEGEND

| EXISTING | PROPOSED | DESCRIPTION |
|----------|----------|----------------------------------|
| □ | ■ | SERVICE INSTALLATION |
| ⊠ | ⊡ | CONTROLLER CABINET |
| --- | --- | CONDUIT |
| ↑ | ➔ | SIGNAL HEAD WITH BACKPLATE |
| ○ | ● | STEEL MAST ARM |
| ○ | ● | TRAFFIC SIGNAL POST |
| ⊠ | ⊡ | HANDHOLE |
| ⊠ | ⊡ | DOUBLE HANDHOLE |
| ⊠ | ⊡ | PEDESTRIAN SIGNAL HEAD |
| ● | ● | PEDESTRIAN PUSH BUTTON |
| ▲ | ▲ | EMERGENCY VEHICLE LIGHT DETECTOR |



- LEGEND**
- ① 80% FEDERAL, 20% STATE
 - ② 80% FEDERAL, 15% STATE, 5% CITY
 - ③ 80% FEDERAL, 13.3% STATE, 6.7% CITY
 - ④ 80% FEDERAL, 10% STATE, 10% CITY
 - ⑤ 100% CITY

REVISIONS

| NAME | DATE |
|------|------|
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL PLAN
 FAP 330 (IL 17)-COURT STREET AND
 FAP 840 (IL 50)-INDIANA AVENUE
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 6/05

DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 4/07
 FILE NAME = ILL17-INDIANA.DGN
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

| | | | | |
|---------------------|---------|---------------------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| • | •• | KANKAKEE | 48 | 21 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

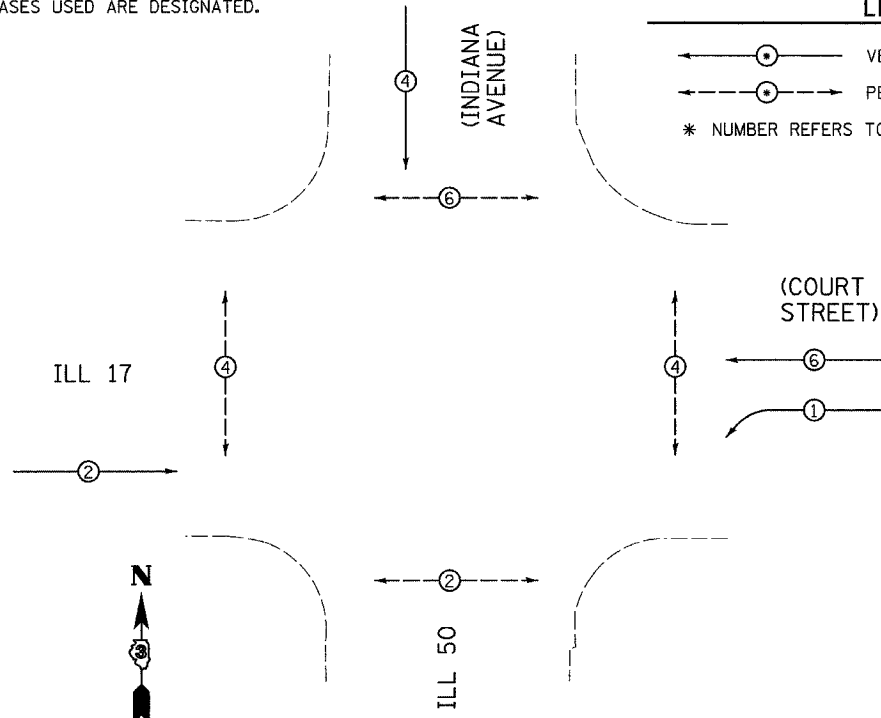
- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

CONTROLLER SEQUENCE

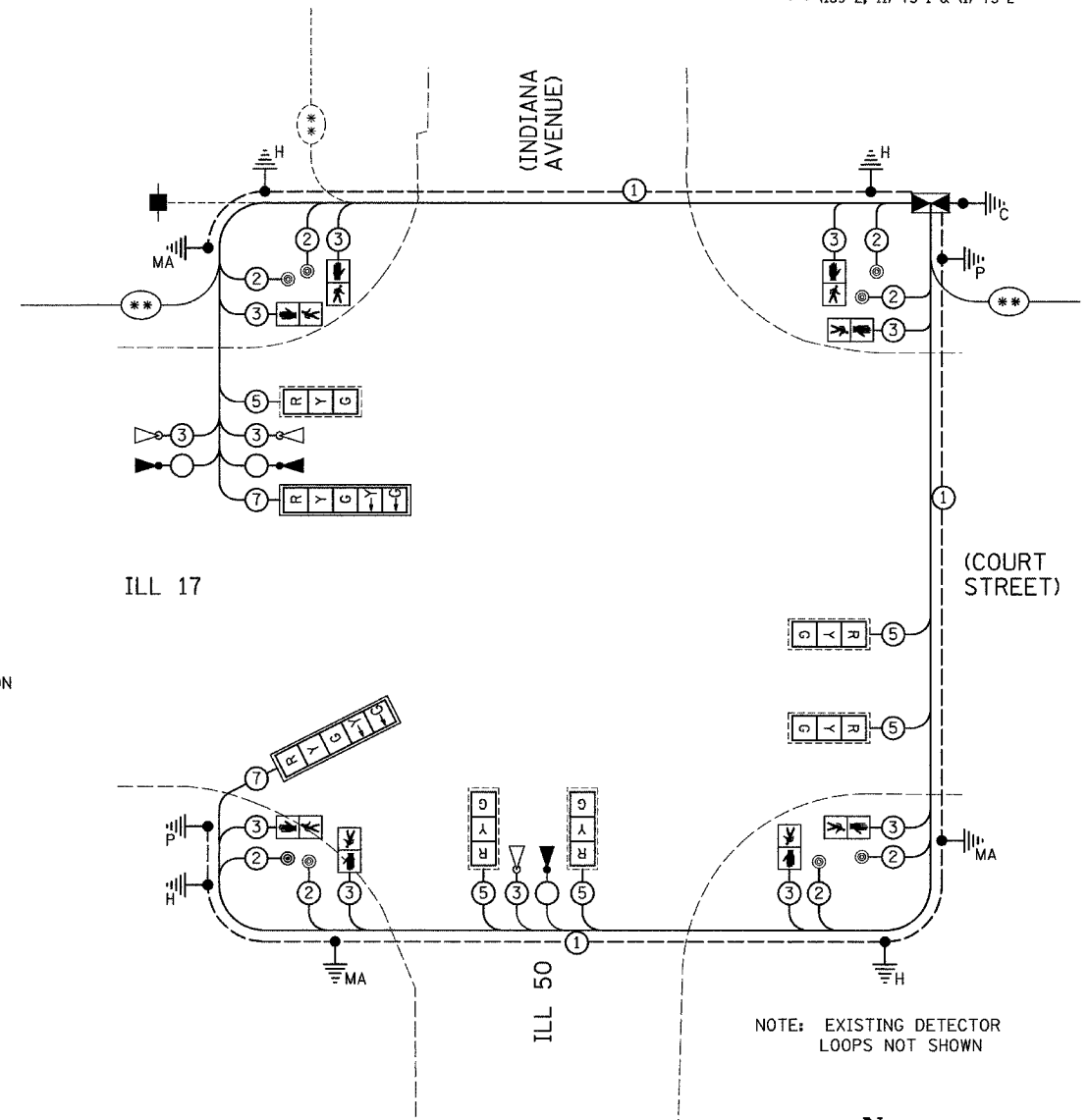
NAME OF INTERSECTION: ILL 17 (COURT STREET) AND ILL 50 (INDIANA AVENUE)
 CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED.

LEGEND

- VEHICULAR MOVEMENT
- - -○- - - PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE



PROPOSED PLAN
NOT TO SCALE



NOTE: EXISTING DETECTOR LOOPS NOT SHOWN

PROPOSED CABLE PLAN
NOT TO SCALE

PROPOSED TRAFFIC SIGNALS LEGEND

- PROPOSED CABLE NUMBER
- *-CABLE NUMBER
- ▼ EMERGENCY VEHICLE CONFIRMATION BEACON
- ▽ EMERGENCY VEHICLE LIGHT DETECTOR
- ** EXISTING INTERCONNECT CABLE
- ** PROPOSED INTERCONNECT CABLE
- PROPOSED SERVICE INSTALLATION
- PROPOSED CONTROLLER CABINET
- PEDESTRIAN PUSH BUTTON
- Y- LEFT TURN YELLOW
- G- LEFT TURN GREEN
- SIGNAL SECTION 12"
- ⬇⬆ WALK/DON'T WALK SECTION
- ▭ TRAFFIC SIGNAL BACKPLATE
- ▭ RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS
- ① GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
- ⊖ GROUND ROD AT CONTROLLER (C), POST (P), MAST ARM (MA), SERVICE (S), OR HANDHOLE (H)

PLOT DATE = 4/07
 FILE NAME = ILL17-INDIANA-CABLE.DGN
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

| REVISIONS | | |
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| NAME | DATE | |
| ARR | 4/07 | |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
 FAP 330 (IL 17)-COURT STREET AND
 FAP 840 (IL 50)-INDIANA AVENUE
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'

DATE 6/05

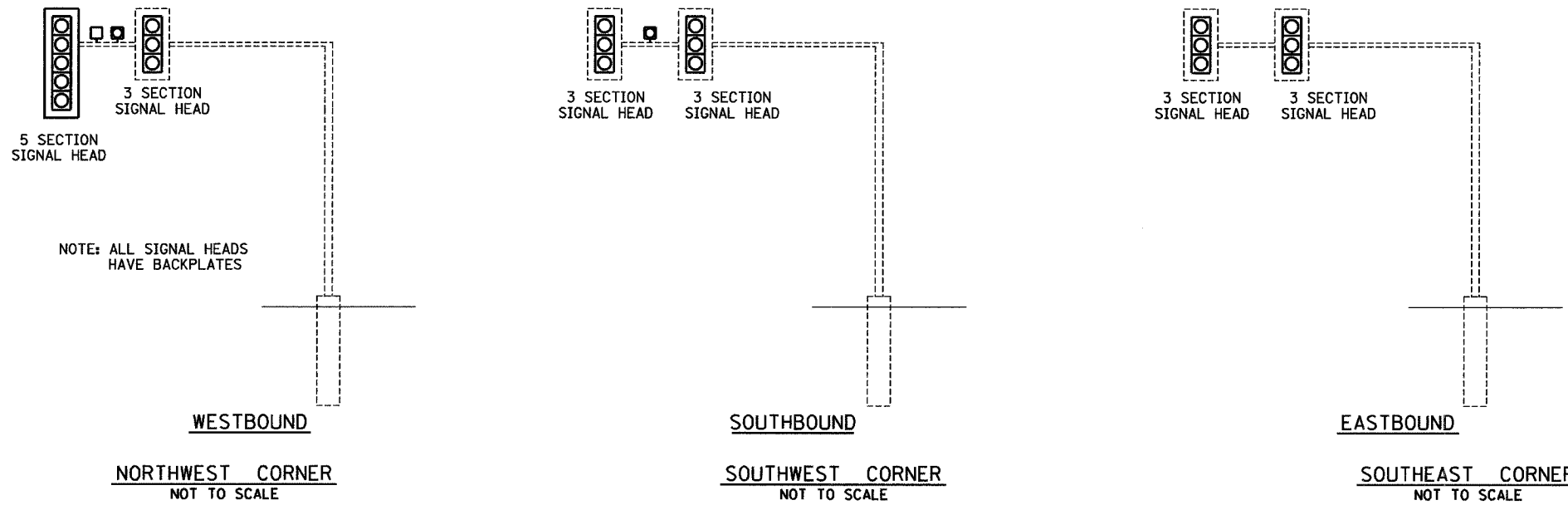
DRAWN BY ARR
 CHECKED BY JLS

| F.A. RTE. NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|------------------|--------------|-----------|
| * | * | KANKAKEE | 48 | 22 |
| STA. TO STA. | | ILLINOIS | | |
| FED. ROAD DIST. NO. | | FED. AID PROJECT | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

| ELECTRICAL LOAD FOR INTERSECTION | | | | |
|---------------------------------------|---------------------------|--------|--------------|------------|
| STREET NAME | COMPONENT | NUMBER | WATTAGE EACH | BURNTIME % |
| ILLINOIS ROUTE 17 (COURT STREET) | RED | 5 | 10 | 74 |
| | YELLOW | 5 | 19 | 5 |
| | GREEN | 5 | 14 | 21 |
| | YELLOW ARROW-LT. | 2 | 9 | 5 |
| | GREEN ARROW-LT. | 2 | 3.4 | 21 |
| | | 4 | 8 | 95 |
| ILLINOIS ROUTE 50 (INDIANA AVENUE) | RED | 2 | 10 | 68 |
| | YELLOW | 2 | 19 | 5 |
| | GREEN | 2 | 14 | 27 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| TRAFFIC SIGNAL CABINET | CONTROLLER | 1 | 6 | 100 |
| | VEHICLE DETECTORS | 2 | 4 | 100 |
| | UPS | 1 | 50 | 100 |
| | EMERGENCY VEHICLE PREEMPT | 3 | -- | -- |

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF KANKAKEE



ILL ROUTE 50 (INDIANA AVENUE) / ILLINOIS ROUTE 17 (COURT STREET)

PLOT DATE = 4/07
FILE NAME = tsdet.dgn
PLOT SCALE = 1" = 20'
USER NAME = ARR

| REVISIONS | |
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| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
FAP 330 (IL 17)-COURT STREET AND
FAP 840 (IL 50)-INDIANA AVENUE
SECTION (139 Z, 11) TS-1 & (1) TS-2
KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
HORIZ. 1" = 20'
DATE 6/05

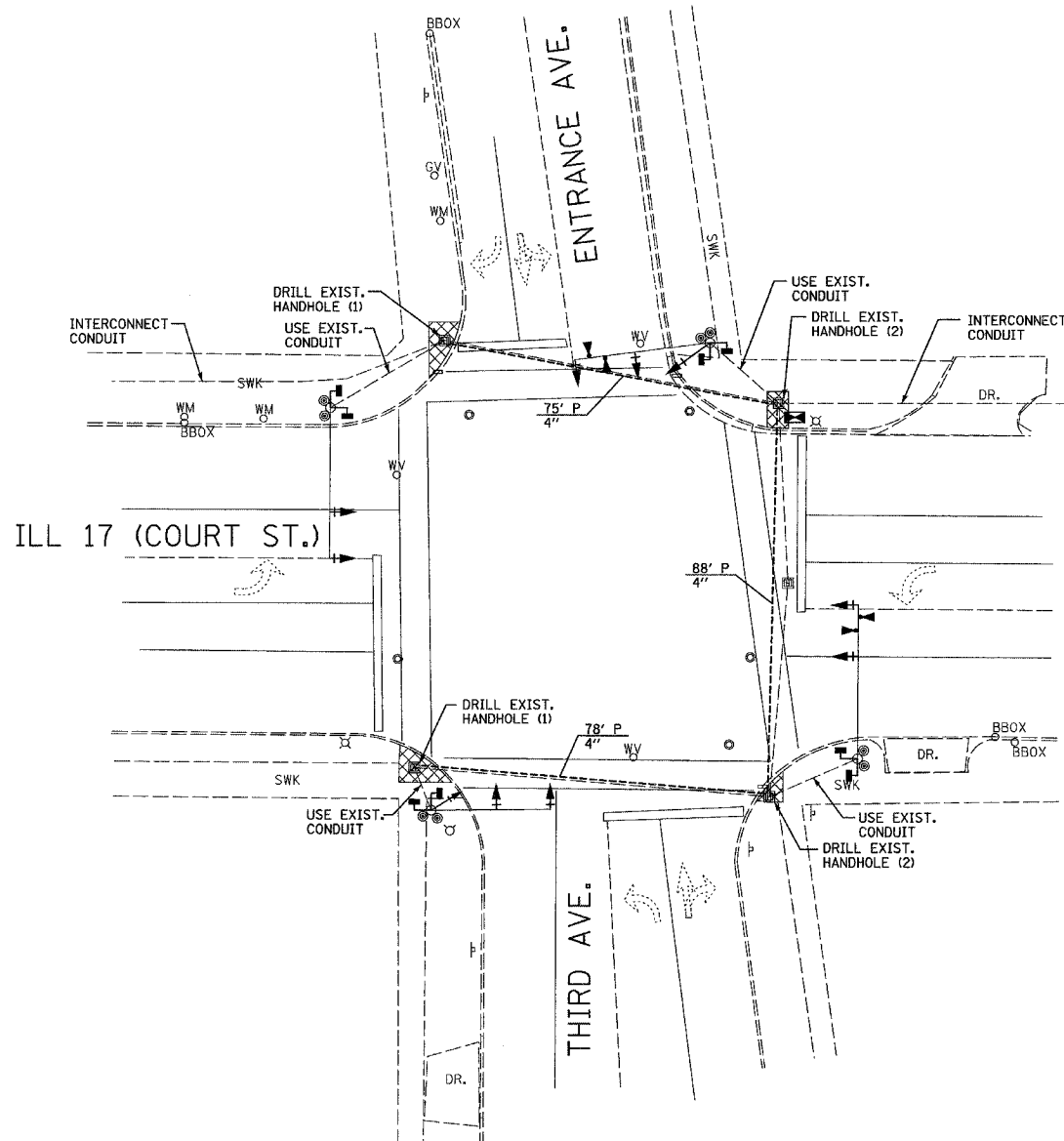
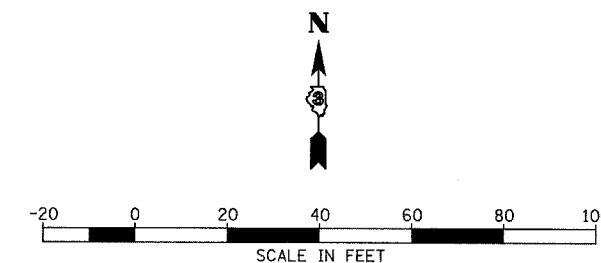
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CHECKED BY JLS

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|---------|---------------------------|--------------|-----------|
| * | ** | KANKAKEE | 48 | 23 |
| STA. TO STA. | | ILLINOIS FED. AID PROJECT | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER AND CABINET ON EXISTING FOUNDATION. INSTALL UNINTERRUPTIBLE POWER SUPPLY.
- REMOVE TWO (2) MAST ARM MOUNTED AND TWO (2) BRACKET MOUNTED 4-SECTION HEADS AND REPLACE WITH 5-SECTION LED HEADS.
- REMOVE SIX (6) MAST ARM MOUNTED 3-SECTION HEADS AND REPLACE WITH LED HEADS.
- REMOVE EIGHT (8) PEDESTRIAN HEADS AND REPLACE WITH LED SYMBOL HEADS.
- REMOVE AND REPLACE PEDESTRIAN PUSH-BUTTONS.
- REMOVE EXISTING CABLE AND INSTALL NEW CABLE IN NEW CONDUIT, EXCEPT WHERE NOTED
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 2 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED
 - 2 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED
 - 6 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
 - 8 EACH - PEDESTRIAN PUSH BUTTON



SCHEDULE OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ④ | ⑤ |
|----------|--|-------|----------------|------|----|
| 42400100 | PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH | SQ FT | 172 | 172 | -- |
| 42400800 | DETECTABLE WARNINGS | SQ FT | 41 | 41 | -- |
| 44000600 | SIDEWALK REMOVAL | SQ FT | 172 | 172 | -- |
| 66900200 | NON-SPECIAL WASTE DISPOSAL | CU YD | 7 | 7 | -- |
| 66900450 | SPECIAL WASTE PLANS AND REPORTS | L SUM | 0.5 | 0.5 | -- |
| 66900530 | SOIL DISPOSAL ANALYSIS | EACH | 2 | 2 | -- |
| 81021370 | CONDUIT PUSHED, 4" DIA., PVC | FOOT | 241 | 241 | -- |
| 85700205 | FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL | EACH | 1 | 1 | -- |
| 86200300 | UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 | 1 | -- |
| 86400100 | TRANSCEIVER-FIBER OPTIC | EACH | 1 | 1 | -- |
| 87301215 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 1084 | 1084 | -- |
| 87301225 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 1140 | 1140 | -- |
| 87301245 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 1036 | 1036 | -- |
| 87301255 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 658 | 658 | -- |
| 87900200 | DRILL EXISTING HANDHOLE | EACH | 6 | 6 | -- |
| 88040090 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 6 | 6 | -- |
| 88040150 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 2 | 2 | -- |
| 88040160 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 2 | 2 | -- |
| 88102710 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED | EACH | 8 | 8 | -- |
| 88200410 | TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 10 | 10 | -- |
| 88500100 | INDUCTIVE LOOP DETECTOR | EACH | 4 | 4 | -- |
| 88800100 | PEDESTRIAN PUSH-BUTTON | EACH | 8 | 8 | -- |
| 89502300 | REMOVE ELECTRIC CABLE FROM CONDUIT | FOOT | 4012 | 4012 | -- |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 | 1 | -- |
| X8730027 | ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C | FOOT | 388 | 388 | -- |
| X8860100 | LOOP DETECTOR TESTING | EACH | 1 | 1 | -- |
| XX002179 | ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C | FOOT | 553 | 553 | -- |
| *3001707 | LIGHT DETECTOR, INSTALLATION ONLY | EACH | 4 | -- | 4 |
| *3001826 | CONFIRMATION BEACON, INSTALLATION ONLY | EACH | 4 | -- | 4 |
| *3001708 | LIGHT DETECTOR AMPLIFIER, INSTALLATION ONLY | EACH | 4 | -- | 4 |

| TRAFFIC SIGNALS LEGEND | | |
|------------------------|----------|----------------------------------|
| EXISTING | PROPOSED | |
| □ | ■ | SERVICE INSTALLATION |
| ⊠ | ⊠ | CONTROLLER CABINET |
| --- | --- | CONDUIT |
| ↑ | ▶ | SIGNAL HEAD WITH BACKPLATE |
| ○ | ● | STEEL MAST ARM |
| ○ | ● | TRAFFIC SIGNAL POST |
| ⊠ | ⊠ | HANDHOLE |
| ⊠ | ⊠ | DOUBLE HANDHOLE |
| ⊠ | ⊠ | PEDESTRIAN SIGNAL HEAD |
| ● | ● | PEDESTRIAN PUSH BUTTON |
| ▲ | ▲ | EMERGENCY VEHICLE LIGHT DETECTOR |

| LEGEND | |
|--------|----------------------------------|
| ⊠ | SIDEWALK REMOVAL AND REPLACEMENT |

LEGEND

- ① 80% FEDERAL, 20% STATE
- ② 80% FEDERAL, 15% STATE, 5% CITY
- ③ 80% FEDERAL, 13.3% STATE, 6.7% CITY
- ④ 80% FEDERAL, 10% STATE, 10% CITY
- ⑤ 100% CITY

| REVISIONS | |
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| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC SIGNAL PLAN
 FAP 330 (IL 17)-COURT STREET AND
 THIRD AVENUE-ENTRANCE AVENUE
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 6/05

DRAWN BY ARR
 CHECKED BY JLS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|---------|---------------------------|--------------|-----------|
| * | ** | KANKAKEE | 48 | 24 |
| STA. TO STA. | | ILLINOIS FED. AID PROJECT | | |

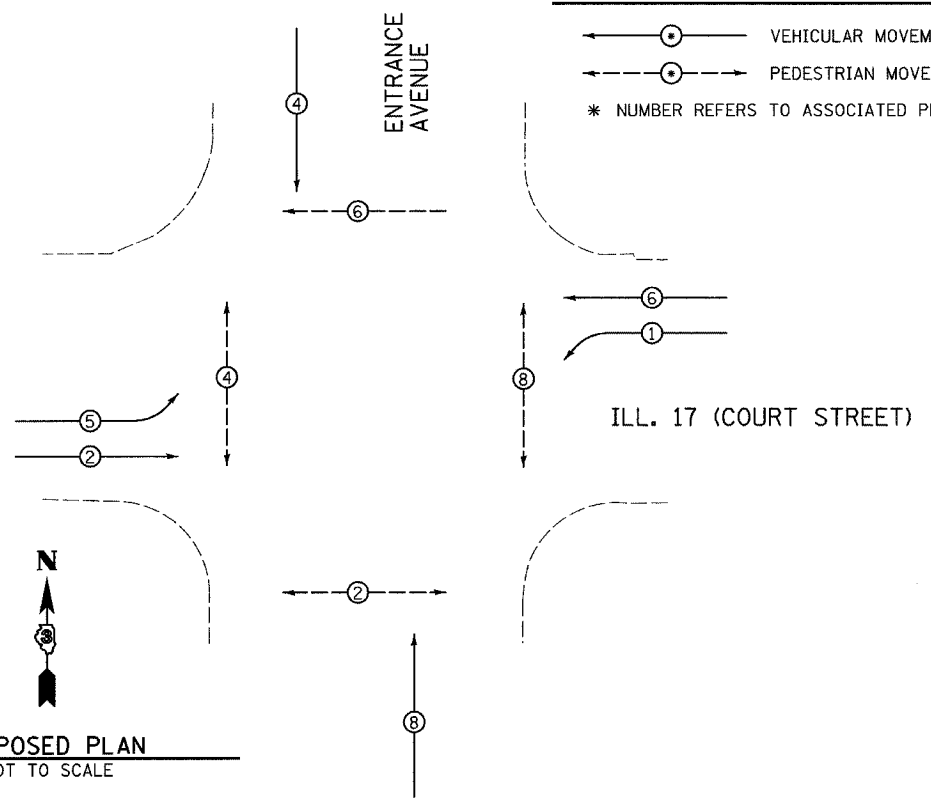
FAP 840 (IL 50) & FAP 330 (IL 17)
 (139 Z, 11) TS-1 & (1) TS-2

CONTROLLER SEQUENCE

NAME OF INTERSECTION: ILL 17 (COURT STREET) AND ENTRANCE AVENUE
 CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED.

LEGEND

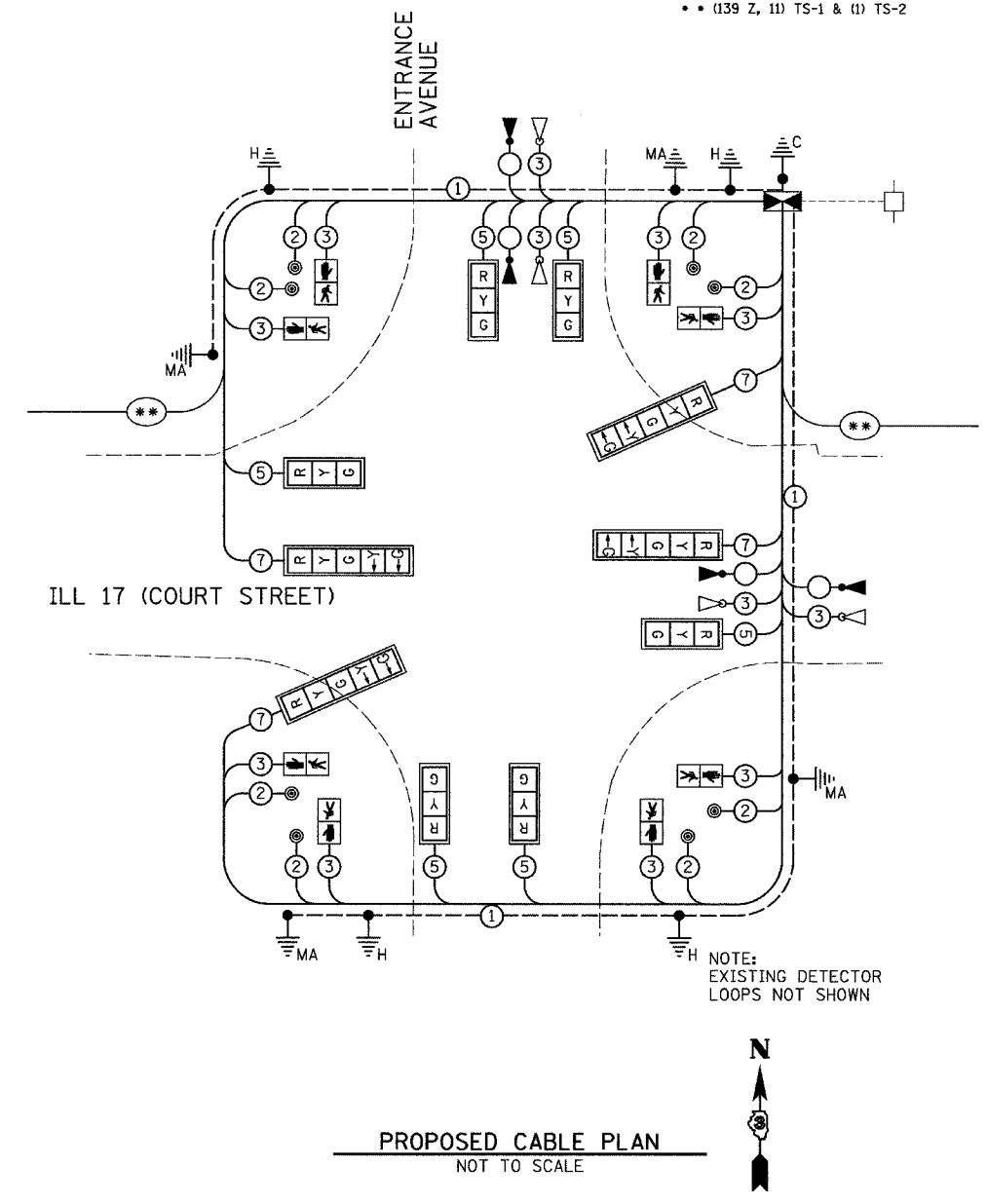
- VEHICULAR MOVEMENT
- PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE



PROPOSED PLAN
NOT TO SCALE

PROPOSED TRAFFIC SIGNALS LEGEND

- PROPOSED CABLE NUMBER
*CABLE NUMBER
- ▲ EMERGENCY VEHICLE CONFIRMATION BEACON
- ▽ EMERGENCY VEHICLE LIGHT DETECTOR
- ** PROPOSED INTERCONNECT CABLE
- PROPOSED CONTROLLER CABINET
- PEDESTRIAN PUSH BUTTON
- Y LEFT TURN YELLOW
- G LEFT TURN GREEN
- SIGNAL SECTION 12"
- WALK/DON'T WALK SECTION
- TRAFFIC SIGNAL BACKPLATE
- RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS
- ① GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
- C GROUND ROD AT CONTROLLER (C), POST (P), MAST ARM (MA), SERVICE (S), OR HANDHOLE (H)



PROPOSED CABLE PLAN
NOT TO SCALE

NOTE: EXISTING DETECTOR LOOPS NOT SHOWN

| REVISIONS | |
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| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
 FAP 330 (IL 17)-COURT STREET AND
 THIRD AVENUE-ENTRANCE AVENUE
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
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 DATE 6/05

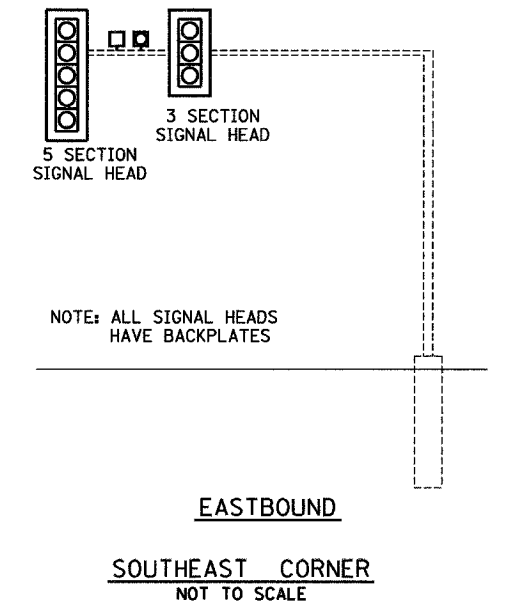
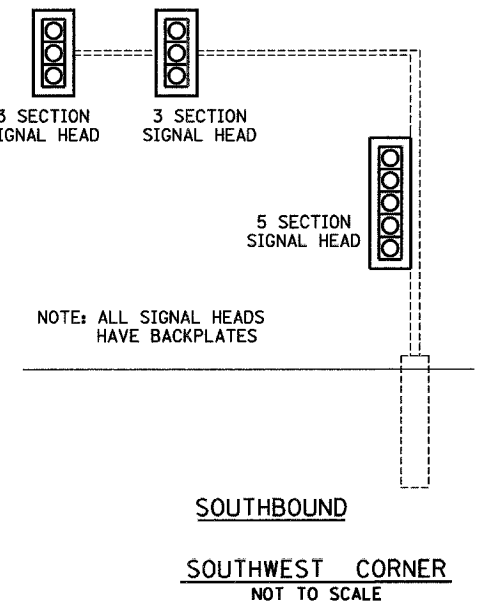
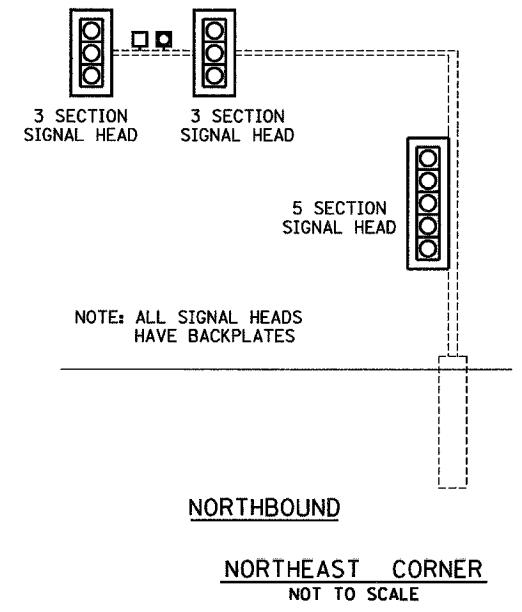
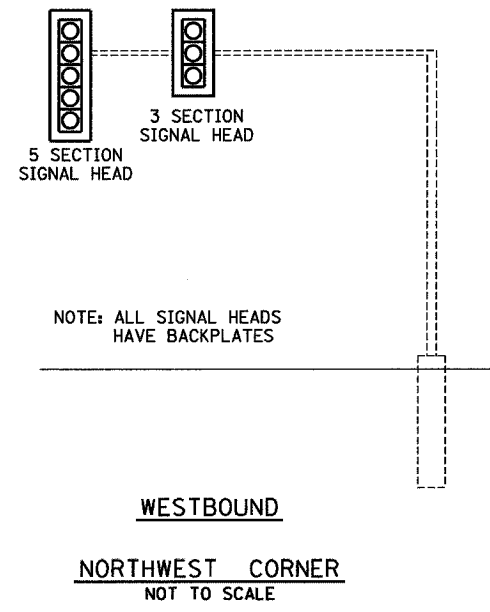
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 CHECKED BY JLS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|---------------------------|--------------|-----------|
| * | ** | KANKAKEE | 48 | 25 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

| ELECTRICAL LOAD FOR INTERSECTION | | | | |
|-------------------------------------|------------------------------|--------|--------------|------------|
| STREET NAME | COMPONENT | NUMBER | WATTAGE EACH | BURNTIME % |
| ILLINOIS ROUTE 17 (COURT STREET) | RED | 6 | 10 | 68 |
| | YELLOW | 6 | 19 | 5 |
| | GREEN | 6 | 14 | 27 |
| | YELLOW ARROW-LT. | 4 | 9 | 5 |
| | GREEN ARROW-LT. | 4 | 3.4 | 11 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| THIRD AVENUE ENTRANCE AVENUE | RED | 4 | 10 | 74 |
| | YELLOW | 4 | 19 | 5 |
| | GREEN | 4 | 14 | 21 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| TRAFFIC SIGNAL CABINET | CONTROLLER | 1 | 6 | 100 |
| | VEHICLE DETECTORS | 4 | 4 | 100 |
| | UPS | 1 | 50 | 100 |
| | EMERGENCY VEHICLE PREEMPT | 4 | -- | -- |
| | | | | |

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF KANKAKEE



ILLINOIS ROUTE 17 (COURT STREET) / THIRD AVENUE - ENTRANCE AVENUE

PLOT DATE = 4/07
FILE NAME = ts330.dgn
PLOT SCALE = 1" = 20'
USER NAME = ARR

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
FAP 330 (IL 17)-COURT STREET AND
THIRD AVENUE-ENTRANCE AVENUE
SECTION (139 Z, 11) TS-1 & (1) TS-2
KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
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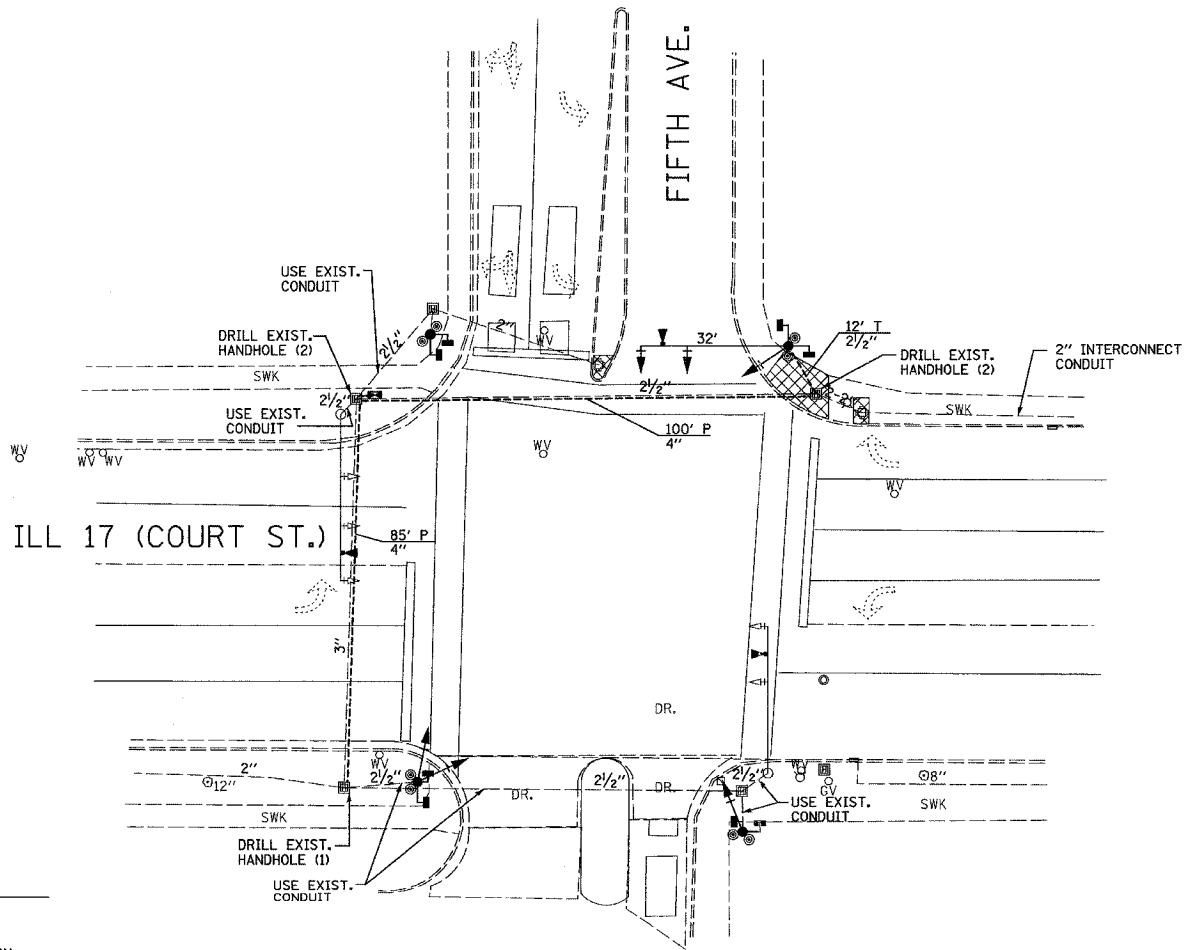
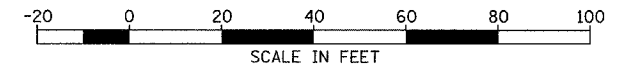
DRAWN BY ARR
CHECKED BY JLS

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|---------------------------|--------------|-----------|
| * | ** | KANKAKEE | 48 | 26 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER, CABINET AND SERVICE DISCONNECT ON EXISTING FOUNDATION. INSTALL UNINTERRUPTIBLE POWER SUPPLY.
- RETROFIT TWO (2) 5-SECTION AND THREE (3) 3-SECTION MAST ARM MOUNTED HEADS WITH LED HEADS.
- REMOVE TRAFFIC SIGNAL POST AND FOUNDATION IN NORTHEAST CORNER AND NORTH MEDIAN. REMOVE ONE (1) 5-SECTION HEAD AND TWO (2) 3-SECTION HEADS. INSTALL MAST ARM AND POLE IN NORTHEAST CORNER WITH ONE (1) 5-SECTION LED HEAD AND TWO (2) 3-SECTION LED HEADS.
- REMOVE AND REPLACE THREE (3) TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS. REPLACE ONE (1) 5-SECTION HEADS AND TWO (2) 3-SECTION BRACKET MOUNTED HEADS WITH LED HEADS.
- REPLACE EIGHT (8) PEDESTRIAN HEADS WITH LED SYMBOL HEADS. REPLACE PUSH-BUTTONS.
- REMOVE EXISTING CABLE AND INSTALL NEW CABLE IN NEW CONDUIT. EXCEPT WHERE NOTED
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 5 EACH - TRAFFIC SIGNAL POSTS
 - 2 EACH - SIGNAL HEAD, 1-FACE, 5-SECTION, BRACKET MOUNTED
 - 4 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
 - 8 EACH - PEDESTRIAN PUSH-BUTTON



SCHEDULE OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ④ | ⑤ |
|----------|--|-------|----------------|-------|----|
| 42400100 | PORTLAND CEMENT CONCRETE SIDEWALK, 4 INCH | SQ FT | 152 | 152 | -- |
| 42400800 | DETECTABLE WARNINGS | SQ FT | 32 | 32 | -- |
| 44000600 | SIDEWALK REMOVAL | SQ FT | 152 | 152 | -- |
| 66900200 | NON-SPECIAL WASTE DISPOSAL | CU YD | 3 | 3 | -- |
| 66900450 | SPECIAL WASTE PLANS AND REPORTS | L SUM | 0.25 | 0.25 | -- |
| 66900530 | SOIL DISPOSAL ANALYSIS | EACH | 1 | 1 | -- |
| 72000100 | SIGN PANEL - TYPE 1 | SQ FT | 10 | 10 | -- |
| 81012600 | CONDUIT IN TRENCH, 2 1/2" DIA., PVC | FOOT | 12 | 12 | -- |
| 81021370 | CONDUIT PUSHED, 4" DIA., PVC | FOOT | 185 | 185 | -- |
| 81900200 | TRENCH AND BACKFILL FOR ELECTRICAL WORK | FOOT | 12 | 12 | -- |
| 85700205 | FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL | EACH | 1 | 1 | -- |
| 86200300 | UNINTERRUPTIBLE POWER SUPPLY, EXTENDED | EACH | 1 | 1 | -- |
| 86400100 | TRANSCEIVER-FIBER OPTIC | EACH | 1 | 1 | -- |
| 87301215 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C | FOOT | 1119 | 1119 | -- |
| 87301225 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 1175 | 1175 | -- |
| 87301245 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 1126 | 1126 | -- |
| 87301255 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 640 | 640 | -- |
| 87502500 | TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 3 | 3 | -- |
| 87700200 | STEEL MAST ARM ASSEMBLY AND POLE, 32 FT. | EACH | 1 | 1 | -- |
| 87800415 | CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER | FOOT | 11 | 11 | -- |
| 87900200 | DRILL EXISTING HANDHOLE | EACH | 5 | 5 | -- |
| 88040070 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 2 | 2 | -- |
| 88040090 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 2 | 2 | -- |
| 88040150 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 2 | 2 | -- |
| 88102710 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED | EACH | 8 | 8 | -- |
| 88200410 | TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 6 | 6 | -- |
| 88500100 | INDUCTIVE LOOP DETECTOR | EACH | 5 | 5 | -- |
| 88800100 | PEDESTRIAN PUSH-BUTTON | EACH | 8 | 8 | -- |
| 89502300 | REMOVE ELECTRIC CABLE FROM CONDUIT | FOOT | 3054 | 3054 | -- |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 | 1 | -- |
| 89502385 | REMOVE EXISTING CONCRETE FOUNDATION | EACH | 2 | 2 | -- |
| X0323336 | LED SIGNAL FACE RETROFIT, RED BALL | EACH | 5 | 5 | -- |
| X0323337 | LED SIGNAL FACE RETROFIT, GREEN BALL | EACH | 5 | 5 | -- |
| X0323418 | LED SIGNAL FACE RETROFIT, YELLOW BALL | EACH | 5 | 5 | -- |
| X0323419 | LED SIGNAL FACE RETROFIT, YELLOW ARROW | EACH | 2 | 2 | -- |
| X0323420 | LED SIGNAL FACE RETROFIT, GREEN ARROW | EACH | 2 | 2 | -- |
| X8730027 | ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C | FOOT | 434.5 | 434.5 | -- |
| X8860100 | LOOP DETECTOR TESTING | EACH | 1 | 1 | -- |
| XX002179 | ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C | FOOT | 526 | 526 | -- |
| *3001707 | LIGHT DETECTOR, INSTALLATION ONLY | EACH | 3 | -- | 3 |
| *3001826 | CONFIRMATION BEACON, INSTALLATION ONLY | EACH | 3 | -- | 3 |
| *3001708 | LIGHT DETECTOR AMPLIFIER, INSTALLATION ONLY | EACH | 3 | -- | 3 |

TRAFFIC SIGNALS LEGEND

| EXISTING | PROPOSED | |
|----------|----------|----------------------------------|
| □ | ■ | SERVICE INSTALLATION |
| ⊠ | ⊞ | CONTROLLER CABINET |
| --- | --- | CONDUIT |
| + | + | SIGNAL HEAD WITH BACKPLATE |
| ○ | ● | STEEL MAST ARM |
| ○ | ● | TRAFFIC SIGNAL POST |
| ⊠ | ⊞ | HANDHOLE |
| ⊞ | ⊞ | DOUBLE HANDHOLE |
| ⊠ | ⊠ | PEDESTRIAN SIGNAL HEAD |
| ● | ● | PEDESTRIAN PUSH BUTTON |
| ⊠ | ⊠ | EMERGENCY VEHICLE LIGHT DETECTOR |

LEGEND

| | |
|---------------------|----------------------------------|
| [Cross-hatched box] | SIDEWALK REMOVAL AND REPLACEMENT |
|---------------------|----------------------------------|

LEGEND

- ① 80% FEDERAL, 20% STATE
- ② 80% FEDERAL, 15% STATE, 5% CITY
- ③ 80% FEDERAL, 13.3% STATE, 6.7% CITY
- ④ 80% FEDERAL, 10% STATE, 10% CITY
- ⑤ 100% CITY

REVISIONS

| NAME | DATE |
|------|------|
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL PLAN
 FAP 330 (IL 17)-COURT STREET
 AND FIFTH AVENUE
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'

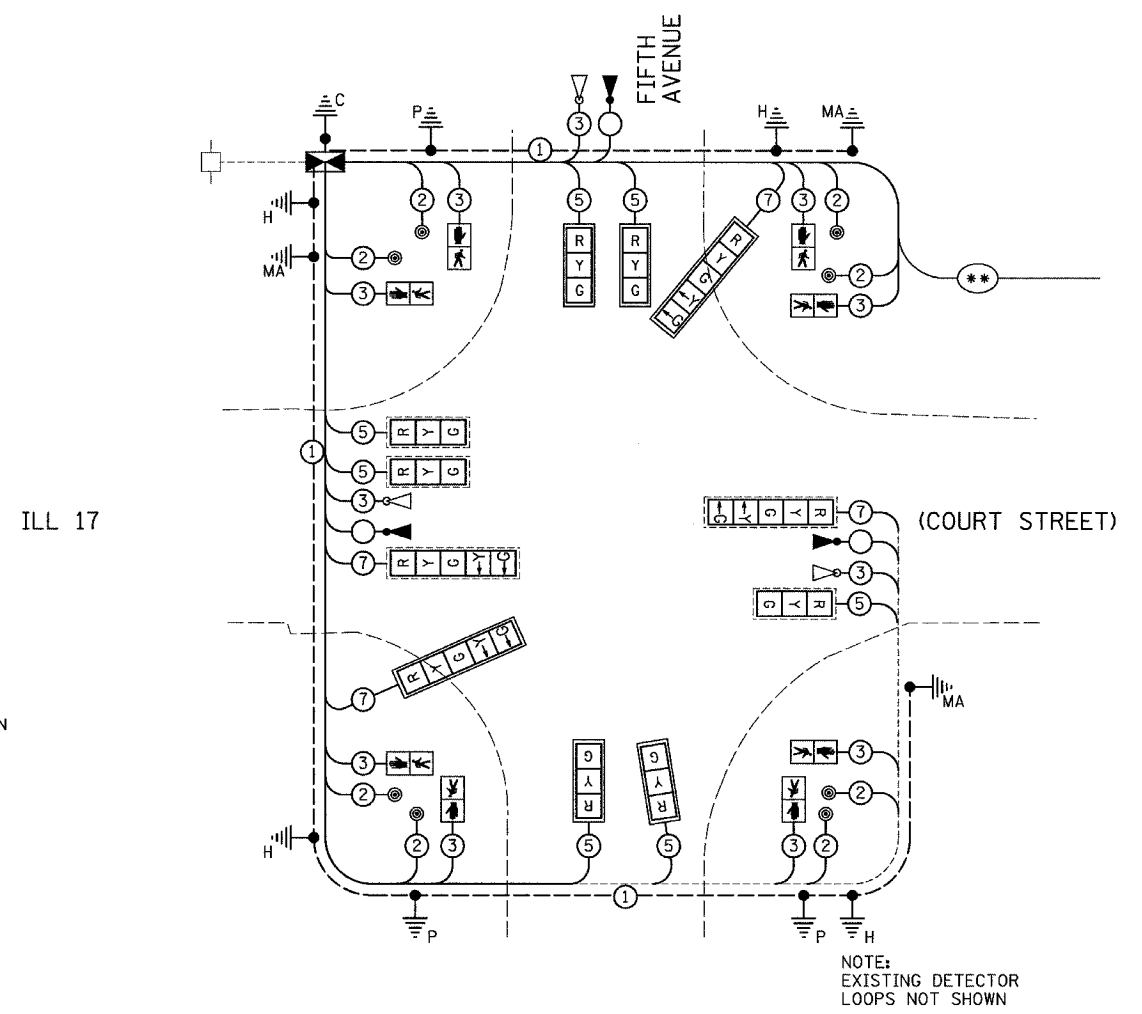
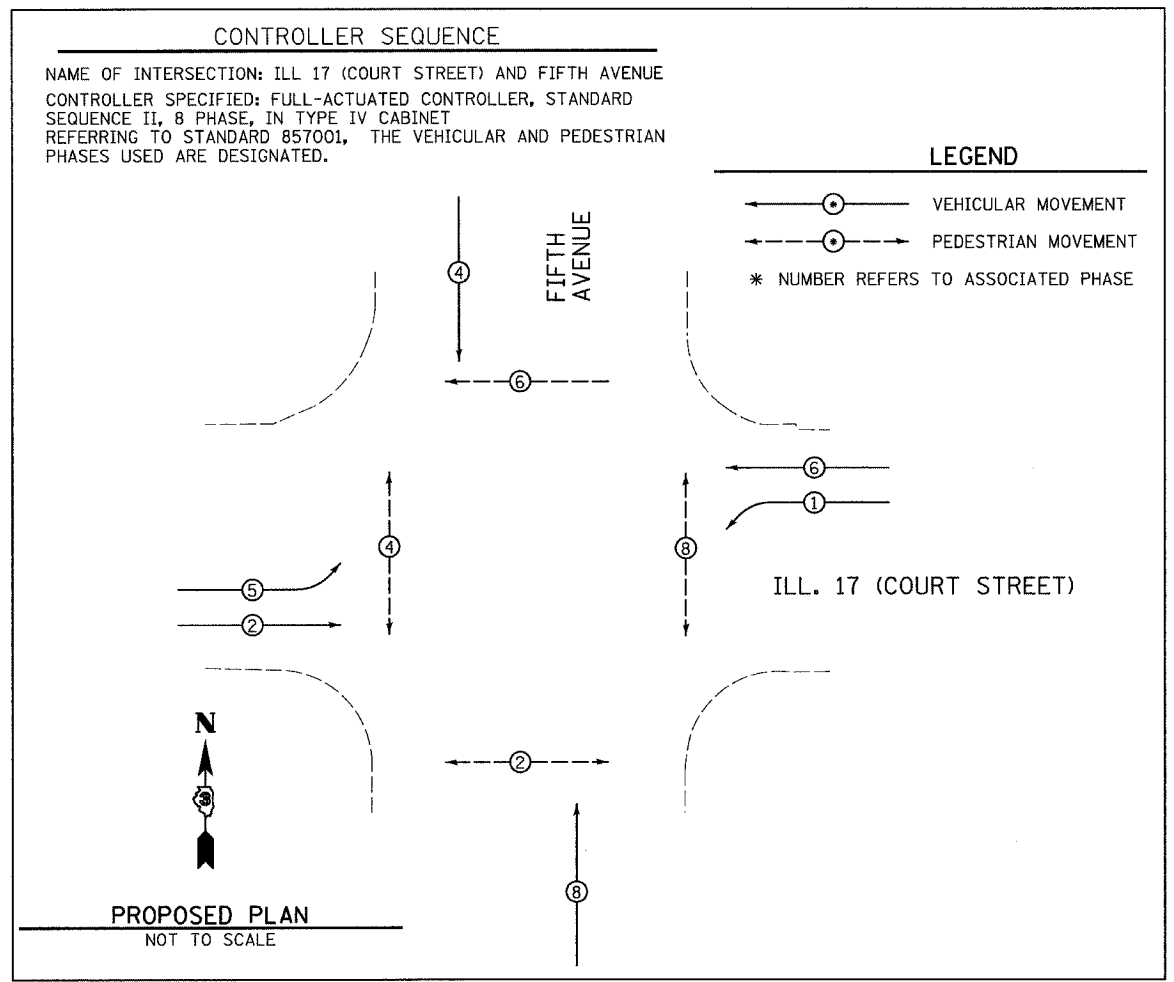
DATE 6/05

DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 4/07
 FILE NAME = ETOPO-AJDN
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|---------|---|--------------|-----------|
| * | ** | KANKAKEE | 48 | 27 |
| STA. TO STA. | | FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2



- #### PROPOSED TRAFFIC SIGNALS LEGEND
- PROPOSED CABLE NUMBER
 - CABLE NUMBER
 - EMERGENCY VEHICLE CONFIRMATION BEACON
 - EMERGENCY VEHICLE LIGHT DETECTOR
 - PROPOSED INTERCONNECT CABLE
 - PEDESTRIAN PUSH BUTTON
 - LEFT TURN YELLOW
 - LEFT TURN GREEN
 - SIGNAL SECTION 12"
 - WALK/DON'T WALK SECTION
 - TRAFFIC SIGNAL BACKPLATE
 - RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS
 - GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
 - GROUND ROD AT CONTROLLER (C), POST (P), MAST ARM (MA), SERVICE (S), OR HANDHOLE (H)

PLOT DATE = 4/07
 FILE NAME = ILL-17-FIFTH-AVE-CABLE.DGN
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

| REVISIONS | |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
 CABLE PLAN
 FAP 330 (IL 17)-COURT STREET
 AND FIFTH AVENUE
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

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DRAWN BY ARR
 CHECKED BY JLS

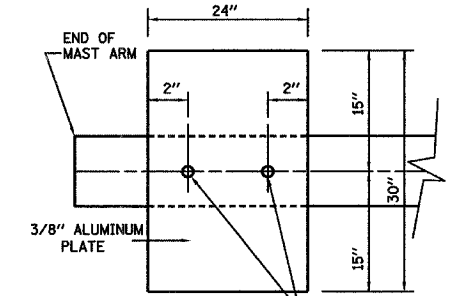
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|---------------------------|--------------|-----------|
| • | •• | KANKAKEE | 48 | 28 |
| STA. _____ | | TO STA. _____ | | |
| FED. ROAD DIST. NO. _____ | | ILLINOIS FED. AID PROJECT | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

| ELECTRICAL LOAD FOR INTERSECTION | | | | |
|-------------------------------------|---------------------------|--------|--------------|------------|
| STREET NAME | COMPONENT | NUMBER | WATTAGE EACH | BURNTIME % |
| ILLINOIS ROUTE 17 (COURT STREET) | RED | 7 | 10 | 68 |
| | YELLOW | 7 | 19 | 5 |
| | GREEN | 7 | 14 | 27 |
| | YELLOW ARROW-LT. | 4 | 9 | 5 |
| | GREEN ARROW-LT. | 4 | 3.4 | 11 |
| | | | 4 | 8 |
| FIFTH AVENUE | RED | 4 | 10 | 74 |
| | YELLOW | 4 | 19 | 5 |
| | GREEN | 4 | 14 | 21 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| TRAFFIC SIGNAL CABINET | CONTROLLER | 1 | 6 | 100 |
| | VEHICLE DETECTORS | 5 | 4 | 100 |
| | UPS | 1 | 50 | 100 |
| | EMERGENCY VEHICLE PREEMPT | 3 | -- | -- |

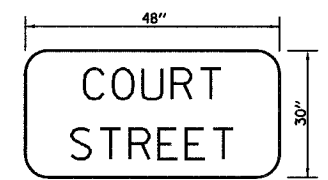
AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF KANKAKEE

NOTE:
DAMPENING DEVICE SHALL CONSIST OF A 24" X 30" TYPE 1, UNPAINTED ALUMINUM SIGN STOCK MOUNTED HORIZONTALLY ON TOP OF MAST ARM WITH THE 30" LENGTH PERPENDICULAR TO THE ARM. COST OF THE DAMPENING DEVICE IS INCLUDED IN THE MAST ARM PAY ITEM.



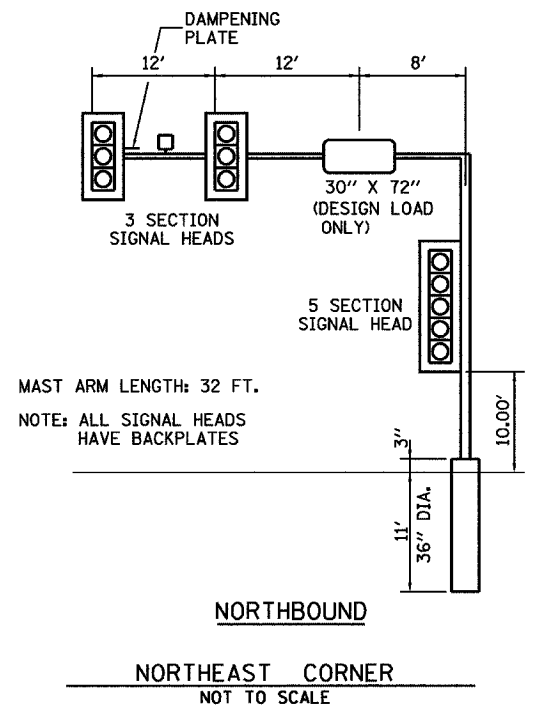
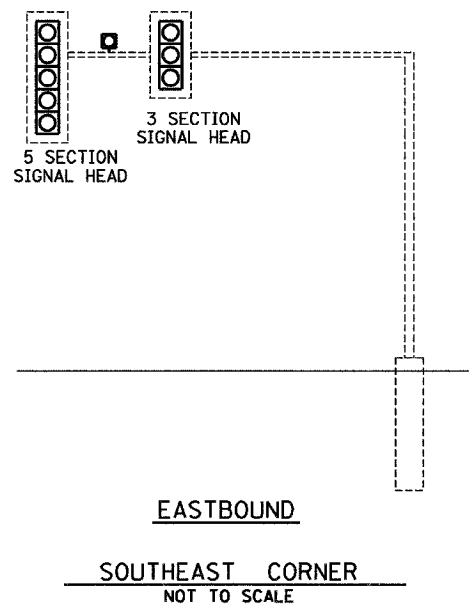
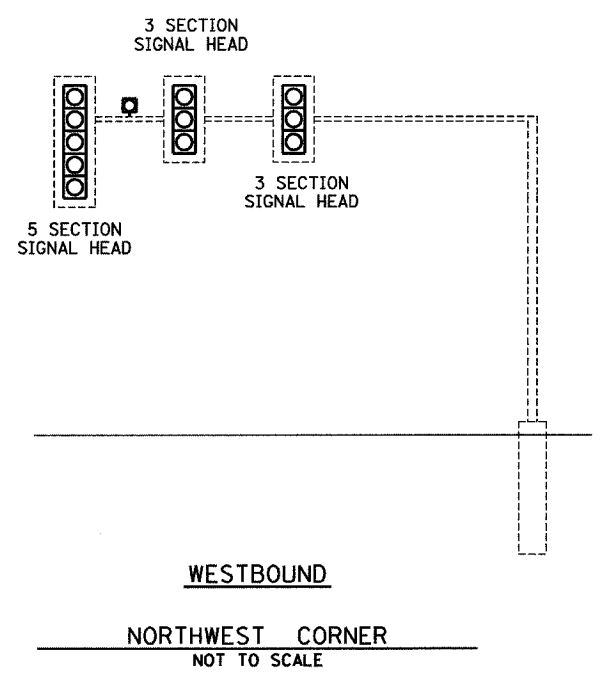
2-5/8" STAINLESS STEEL BOLTS THROUGH STAINLESS STEEL BANDING
NOTE:
MOUNT DAMPENING PLATE TO END OF EACH TRAFFIC SIGNAL MAST ARM.

DAMPENING PLATE DETAIL - TOP VIEW



TYPE A SHEETING REQUIRED
8" D SERIES LETTERS
1 SIGNS REQUIRED = 10.0 SQ. FT. EACH
= 10.0 SQ. FT. TOTAL

THIS STREET NAME SIGN SHALL BE PLACED ON THE MAST ARMS PARALLEL WITH ILL RTE 17 (COURT STREET)



ILLINOIS ROUTE 17 (COURT STREET) / FIFTH AVENUE

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
FAP 330 (IL 17)-COURT STREET
AND FIFTH AVENUE
SECTION (139 Z, 11) TS-1 & (1) TS-2
KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
HORIZ. 1" = 20'

DATE 6/05

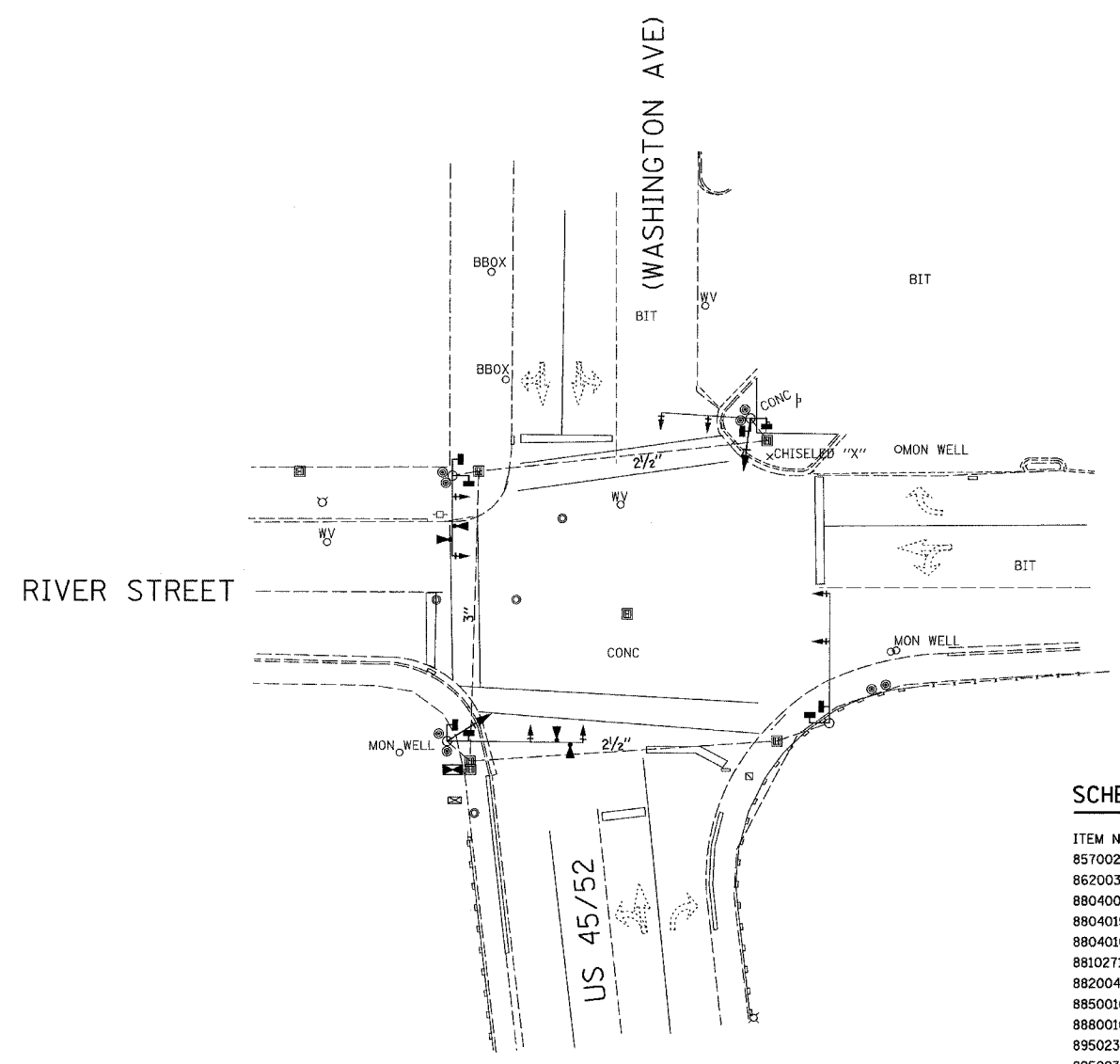
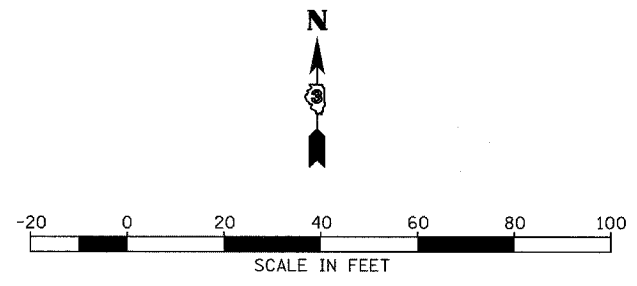
DRAWN BY ARR
CHECKED BY JLS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|---------------------------|--------------|-----------|
| * | ** | KANKAKEE | 48 | 30 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER AND CABINET ON EXISTING FOUNDATION. INSTALL UNINTERRUPTIBLE POWER SUPPLY.
- REMOVE TWO (2) 4-SECTION MAST ARM MOUNTED AND TWO (2) 4-SECTION BRACKET MOUNTED HEADS AND REPLACE WITH 5-SECTION LED HEADS.
- REMOVE SIX (6) 3-SECTION MAST ARM MOUNTED HEADS AND REPLACE WITH LED HEADS.
- REPLACE EIGHT (8) PEDESTRIAN HEADS WITH LED SYMBOL HEADS.
- REMOVE PUSH - BUTTON AT SOUTHEAST CORNER AND REPLACE IT ON THE GUARDRAIL (SEE DETAILS). REPLACE REMAINING SEVEN (7) PUSH - BUTTONS.
- THE REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT PAY ITEM SHALL BE USED TO FACILITATE THE PLACEMENT OF ADDITIONAL CABLE IN THE EXISTING CONDUIT.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 2 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, MAST ARM MOUNTED
 - 2 EACH - SIGNAL HEAD, 1-FACE, 4-SECTION, BRACKET MOUNTED
 - 6 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
 - 8 EACH - PEDESTRIAN PUSH - BUTTON



SCHEDULE OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ② | ⑤ |
|----------|--|------|----------------|-------|----|
| 85700205 | FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL | EACH | 1 | 1 | -- |
| 86200300 | UNINTERRUPTIBLE POWER SUPPLY, EXTENDED | EACH | 1 | 1 | -- |
| 88040090 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 6 | 6 | -- |
| 88040150 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 2 | 2 | -- |
| 88040160 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 2 | 2 | -- |
| 88102710 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED | EACH | 8 | 8 | -- |
| 88200410 | TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 10 | 10 | -- |
| 88500100 | INDUCTIVE LOOP DETECTOR | EACH | 10 | 10 | -- |
| 88800100 | PEDESTRIAN PUSH-BUTTON | EACH | 6 | 6 | -- |
| 89502350 | REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT | FOOT | 3283 | 3283 | -- |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 | 1 | -- |
| X8730027 | ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 IC | FOOT | 313.5 | 313.5 | -- |
| X8860100 | LOOP DETECTOR TESTING | EACH | 1 | 1 | -- |
| XX004921 | PEDESTRIAN PUSH-BUTTON SPECIAL | EACH | 2 | 2 | -- |
| XX002179 | ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C | FOOT | 445 | 445 | -- |
| *3001707 | LIGHT DETECTOR, INSTALLATION ONLY | EACH | 4 | -- | 4 |
| *3001826 | CONFIRMATION BEACON, INSTALLATION ONLY | EACH | 4 | -- | 4 |
| *3001708 | LIGHT DETECTOR AMPLIFIER, INSTALLATION ONLY | EACH | 4 | -- | 4 |

TRAFFIC SIGNALS LEGEND

| EXISTING | PROPOSED | DESCRIPTION |
|----------|----------|----------------------------------|
| | | SERVICE INSTALLATION |
| | | CONTROLLER CABINET |
| | | CONDUIT |
| | | SIGNAL HEAD WITH BACKPLATE |
| | | STEEL MAST ARM |
| | | TRAFFIC SIGNAL POST |
| | | HANDHOLE |
| | | DOUBLE HANDHOLE |
| | | PEDESTRIAN SIGNAL HEAD |
| | | PEDESTRIAN PUSH BUTTON |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |

LEGEND

- ① 80% FEDERAL, 20% STATE
- ② 80% FEDERAL, 15% STATE, 5% CITY
- ③ 80% FEDERAL, 13.3% STATE, 6.7% CITY
- ④ 80% FEDERAL, 10% STATE, 10% CITY
- ⑤ 100% CITY

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL PLAN
 RIVER STREET AND
 US 45/52 - WASHINGTON AVENUE
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 6/05

DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 4/07
 FILE NAME = RIVER-WASHINGTON.DGN
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|----------|--------------|-----------|
| • | •• | KANKAKEE | 48 | 31 |

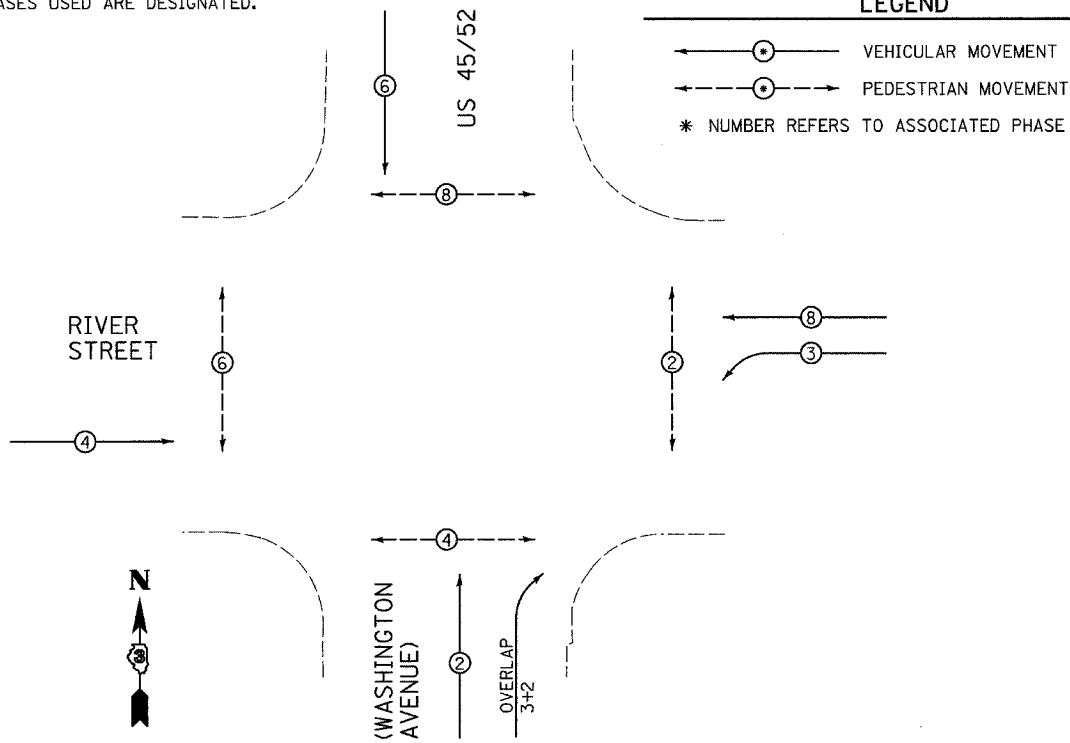
| STA. | TO STA. |
|-----------------------|---------------------------|
| FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

CONTROLLER SEQUENCE

NAME OF INTERSECTION: US 45/52 (WASHINGTON AVENUE) AND ILL 50 (RIVER STREET)
 CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED.

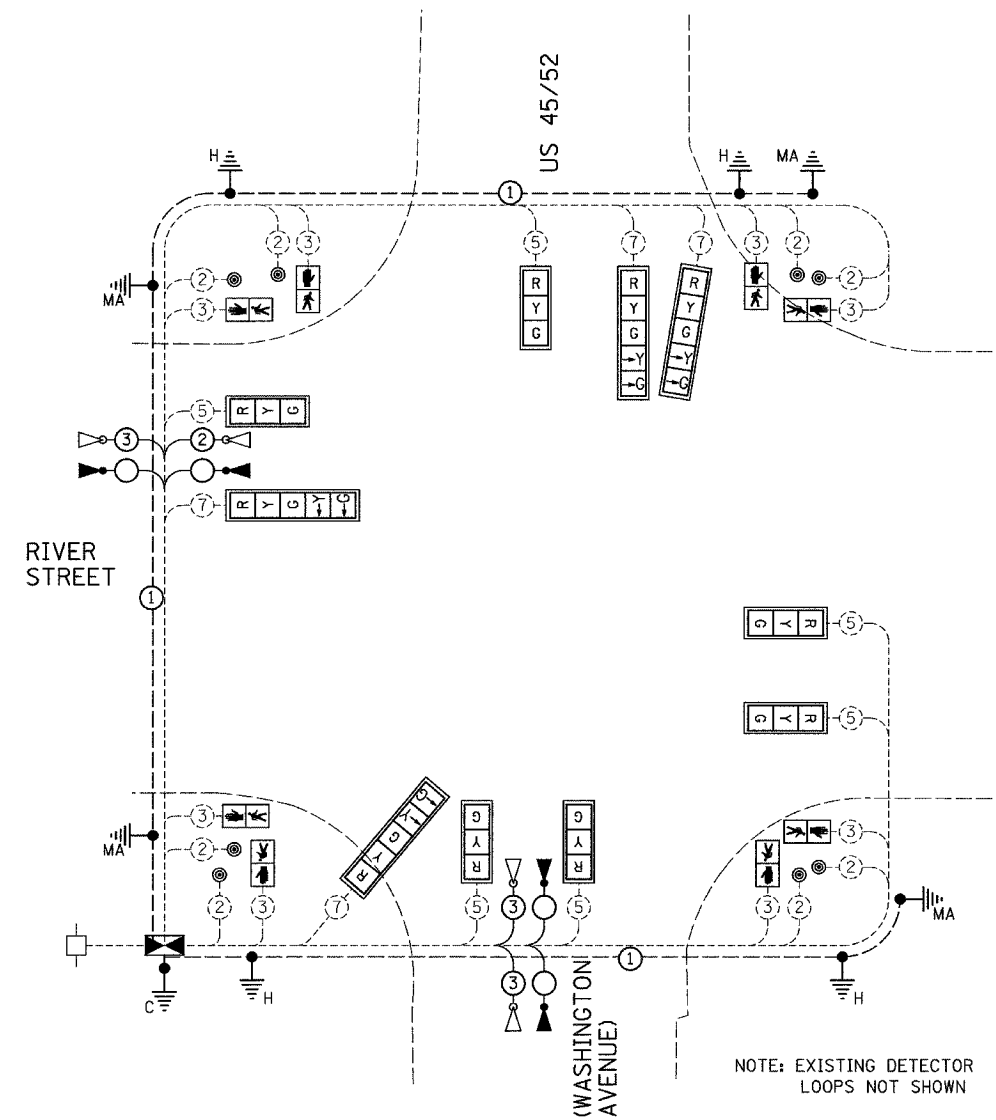
LEGEND



PROPOSED PLAN
NOT TO SCALE

PROPOSED TRAFFIC SIGNALS LEGEND

- ⊙ PROPOSED CABLE NUMBER
- *=CABLE NUMBER
- ⚡ EMERGENCY VEHICLE CONFIRMATION BEACON
- ⚡ EMERGENCY VEHICLE LIGHT DETECTOR
- ⊞ PROPOSED CONTROLLER CABINET
- ⊙ PEDESTRIAN PUSH BUTTON
- ⊞ LEFT TURN YELLOW
- ⊞ LEFT TURN GREEN
- ⊞ SIGNAL SECTION 12"
- ⊞ WALK/DON'T WALK SECTION
- ⊞ TRAFFIC SIGNAL BACKPLATE
- ⊞ GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
- ⊞ GROUND ROD AT CONTROLLER (C), POST (P), MAST ARM (MA), SERVICE (S), OR HANDHOLE (H)



PROPOSED CABLE PLAN
NOT TO SCALE

NOTE: EXISTING DETECTOR LOOPS NOT SHOWN

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
 RIVER STREET AND
 US 45/52 - WASHINGTON AVENUE
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'

DATE 6/05

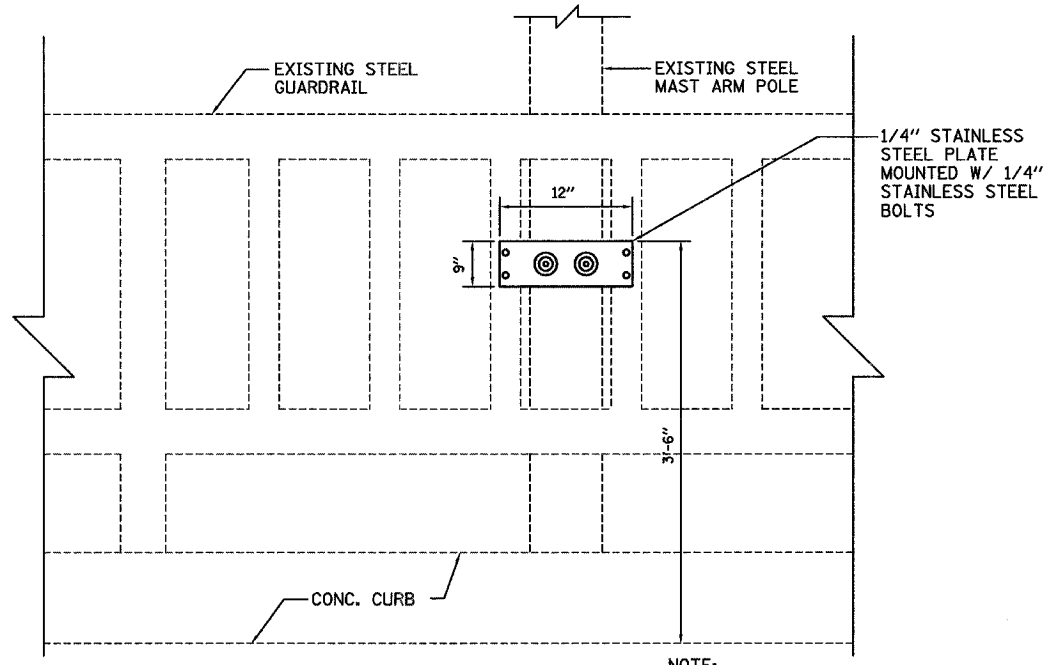
DRAWN BY ARR
 CHECKED BY JLS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|----------|------------------|-----------|
| . | .. | KANKAKEE | 48 | 32 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

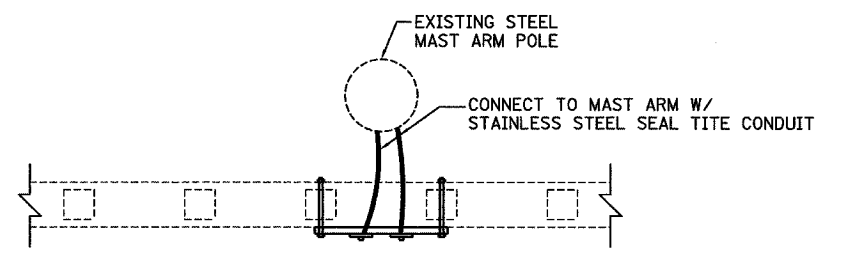
| ELECTRICAL LOAD FOR INTERSECTION | | | | |
|-----------------------------------|---------------------------|--------|--------------|------------|
| STREET NAME | COMPONENT | NUMBER | WATTAGE EACH | BURNTIME % |
| U.S. ROUTE 45/52 (WASHINGTON AVE) | RED | 5 | 10 | 68 |
| | YELLOW | 5 | 19 | 5 |
| | GREEN | 5 | 14 | 27 |
| | YELLOW ARROW-RT. | 2 | 9 | 5 |
| | GREEN ARROW-RT. | 2 | 3.4 | 11 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| ILLINOIS ROUTE 50 RIVER STREET | RED | 5 | 10 | 74 |
| | YELLOW | 5 | 19 | 5 |
| | GREEN | 5 | 14 | 21 |
| | YELLOW ARROW-RT. | 2 | 9 | 5 |
| | GREEN ARROW-LT. | 2 | 3.4 | 21 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| TRAFFIC SIGNAL CABINET | CONTROLLER | 1 | 6 | 100 |
| | VEHICLE DETECTORS | 10 | 4 | 100 |
| | UPS | 1 | 50 | 100 |
| | EMERGENCY VEHICLE PREEMPT | 4 | -- | -- |
| | | | | |

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF KANKAKEE



FRONT VIEW

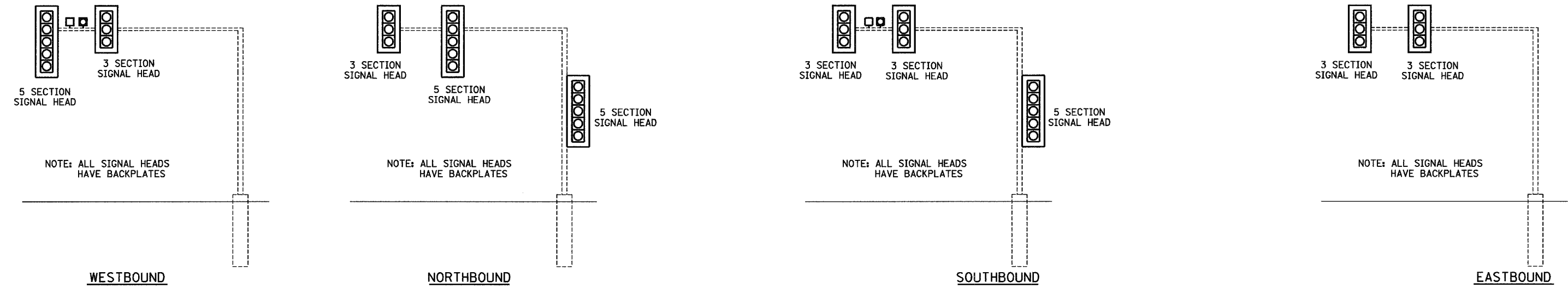
NOTE:
CONTRACTOR TO VERIFY ALL DIMENSIONS
MOUNT INSTRUCTION SIGNS ADJACENT TO PUSH-BUTTONS



TOP VIEW

PEDESTRIAN PUSH BUTTON DETAIL @ SOUTHEAST CORNER OF RIVER STREET AND WASHINGTON AVENUE

NOT TO SCALE



WESTBOUND
NORTHWEST CORNER
NOT TO SCALE

NORTHBOUND
NORTHEAST CORNER
NOT TO SCALE

SOUTHBOUND
SOUTHWEST CORNER
NOT TO SCALE

EASTBOUND
SOUTHEAST CORNER
NOT TO SCALE

U.S. ROUTE 45/52 (WASHINGTON AVENUE) / RIVER STREET

PLOT DATE = 4/07
FILE NAME = tsdet.dgn
PLOT SCALE = 1" = 20"
USER NAME = ARR

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
RIVER STREET AND
US 45/52 - WASHINGTON AVENUE
SECTION (139 Z, 11) TS-1 & (1) TS-2
KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
HORIZ. 1" = 20'

DATE 6/05

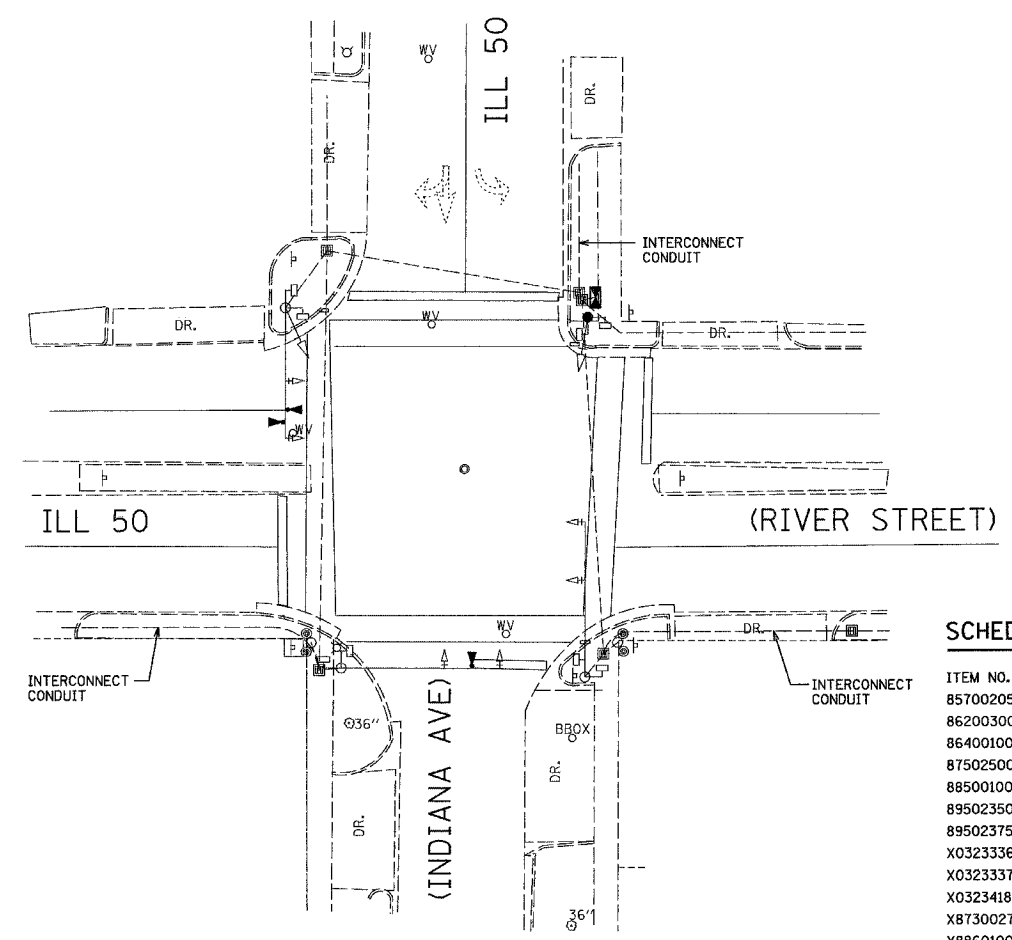
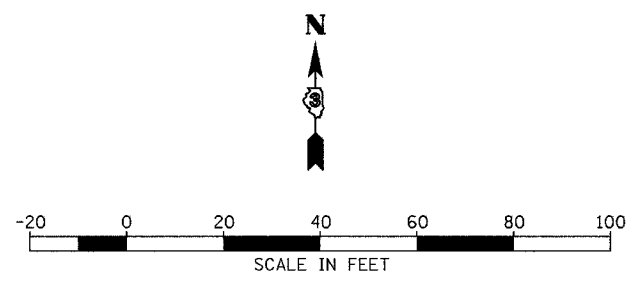
DRAWN BY ARR
CHECKED BY JLS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|---------------------------|--------------|-----------|
| • | • • | KANKAKEE | 48 | 33 |
| STA. _____ | | TO STA. _____ | | |
| FED. ROAD DIST. NO. _____ | | ILLINOIS FED. AID PROJECT | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- • (139 Z, 11) TS-1 & (1) TS-2

CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER AND CABINET ON EXISTING FOUNDATION. INSTALL UNINTERRUPTIBLE POWER SUPPLY.
- REMOVE AND REPLACE TRAFFIC SIGNAL POST IN NORTHEAST CORNER ON EXISTING FOUNDATION.
- RETROFIT SIX (6) 3-SECTION MAST ARM MOUNTED AND TWO (2) 3-SECTION BRACKET MOUNTED SIGNAL HEADS WITH LED HEADS.
- RETROFIT EIGHT (8) PEDESTRIAN HEADS WITH LED SYMBOL HEADS.
- WIRE - BRUSH THE TWO (2) PEDESTRIAN PUSH - BUTTON POSTS. (INCIDENTAL)
- REMOVE GROUT AND ADD SCREEN AT THE BASES OF THE THREE (3) MAST ARM POLES. (INCIDENTAL)
- THE REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT PAY ITEM SHALL BE USED TO FACILITATE THE PLACEMENT OF ADDITIONAL CABLE IN THE EXISTING CONDUIT.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 1 EACH - TRAFFIC SIGNAL POST



SCHEDULE OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ② | ⑤ |
|----------|--|------|----------------|-------|----|
| 85700205 | FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL | EACH | 1 | 1 | -- |
| 86200300 | UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 | 1 | -- |
| 86400100 | TRANSCEIVER-FIBER OPTIC | EACH | 1 | 1 | -- |
| 87502500 | TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 1 | 1 | -- |
| 88500100 | INDUCTIVE LOOP DETECTOR | EACH | 4 | 4 | -- |
| 89502350 | REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT | FOOT | 3145 | 3145 | -- |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 | 1 | -- |
| X0323336 | LED SIGNAL FACE RETROFIT, RED BALL | EACH | 8 | 8 | -- |
| X0323337 | LED SIGNAL FACE RETROFIT, GREEN BALL | EACH | 8 | 8 | -- |
| X0323418 | LED SIGNAL FACE RETROFIT, YELLOW BALL | EACH | 8 | 8 | -- |
| X8730027 | ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C | FOOT | 340.5 | 340.5 | -- |
| X8860100 | LOOP DETECTOR TESTING | EACH | 1 | 1 | -- |
| XX004444 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED, RETROFIT | EACH | 8 | 8 | -- |
| XX002179 | ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C | FOOT | 533 | 533 | -- |
| *3001707 | LIGHT DETECTOR, INSTALLATION ONLY | EACH | 3 | -- | 3 |
| *3001826 | CONFIRMATION BEACON, INSTALLATION ONLY | EACH | 3 | -- | 3 |
| *3001708 | LIGHT DETECTOR AMPLIFIER, INSTALLATION ONLY | EACH | 3 | -- | 3 |

TRAFFIC SIGNALS LEGEND

| EXISTING | PROPOSED | |
|----------|----------|----------------------------------|
| | | SERVICE INSTALLATION |
| | | CONTROLLER CABINET |
| | | CONDUIT |
| | | SIGNAL HEAD WITH BACKPLATE |
| | | STEEL MAST ARM |
| | | TRAFFIC SIGNAL POST |
| | | HANDHOLE |
| | | DOUBLE HANDHOLE |
| | | PEDESTRIAN SIGNAL HEAD |
| | | PEDESTRIAN PUSH BUTTON |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |

LEGEND

- ① 80% FEDERAL, 20% STATE
- ② 80% FEDERAL, 15% STATE, 5% CITY
- ③ 80% FEDERAL, 13.3% STATE, 6.7% CITY
- ④ 80% FEDERAL, 10% STATE, 10% CITY
- ⑤ 100% CITY

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL PLAN
 FAP 840 (IL 50)-RIVER STREET AND
 FAP 840 (IL 50)-INDIANA AVENUE
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 6/05

DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 4/07
 FILE NAME = RIVER-INDIANAVENUE
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------------------|---------|------------------|--------------|-----------|
| * | ** | KANKAKEE | 48 | 34 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. - ILLINOIS | | FED. AID PROJECT | | |

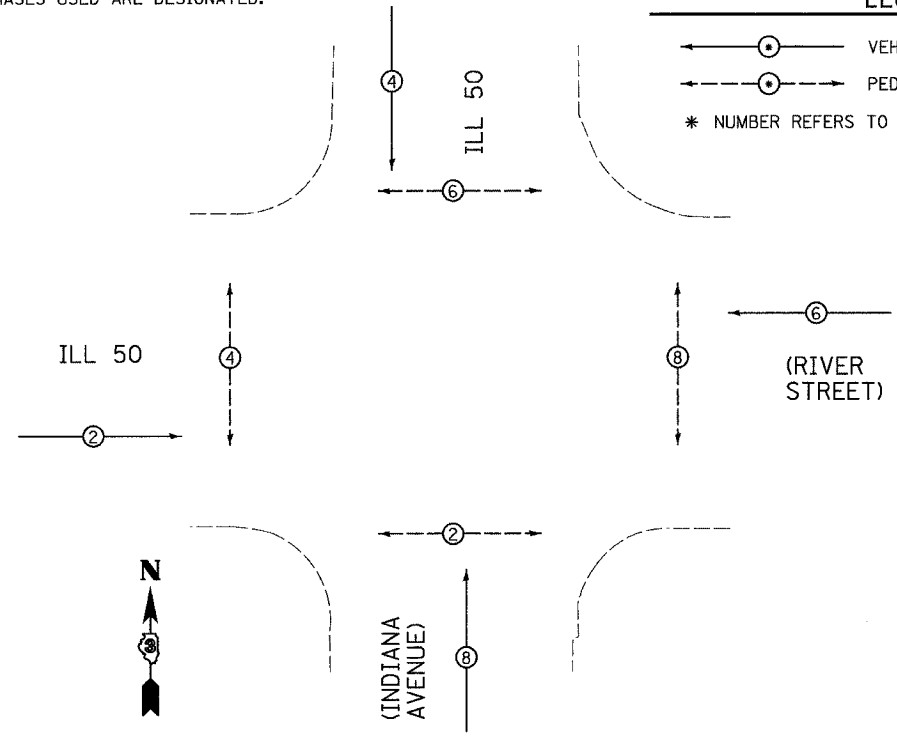
- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

CONTROLLER SEQUENCE

NAME OF INTERSECTION: ILL 50 (RIVER STREET) AND ILL 50 (INDIANA AVENUE)
 CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED.

LEGEND

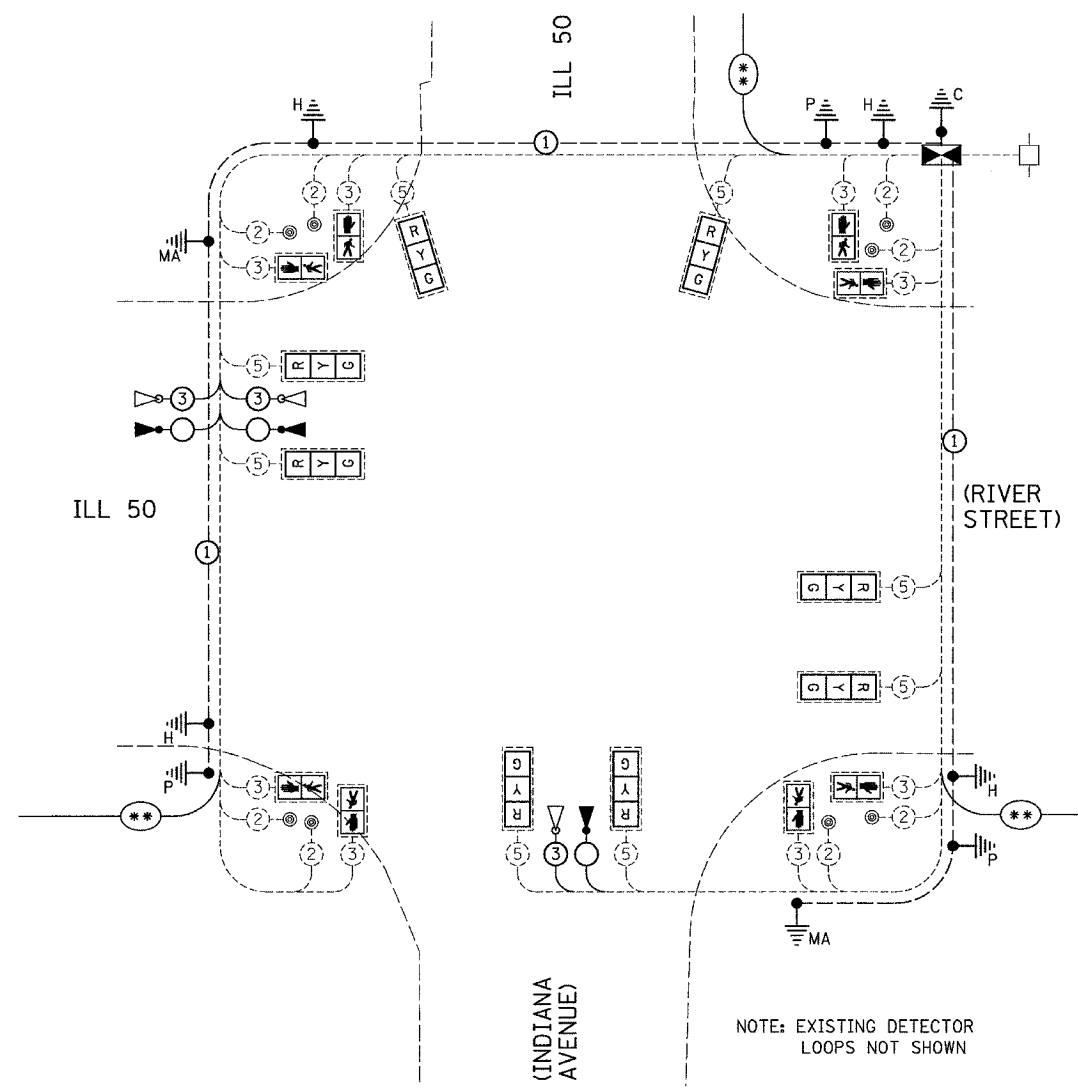
- VEHICULAR MOVEMENT
- PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE



PROPOSED PLAN
NOT TO SCALE

PROPOSED TRAFFIC SIGNALS LEGEND

- PROPOSED CABLE NUMBER
- EMERGENCY VEHICLE CONFIRMATION BEACON
- EMERGENCY VEHICLE LIGHT DETECTOR
- PROPOSED INTERCONNECT CABLE
- PROPOSED CONTROLLER CABINET
- LEFT TURN YELLOW
- LEFT TURN GREEN
- SIGNAL SECTION 12"
- RETROFIT EXISTING PEDESTRIAN HEADS WITH LED HEADS
- TRAFFIC SIGNAL BACKPLATE
- RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS
- GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
- GROUND ROD AT CONTROLLER (C), POST (P), MAST ARM (MA), SERVICE (S), OR HANDHOLE (H)



PROPOSED CABLE PLAN
NOT TO SCALE

PLOT DATE = 4/07
 FILE NAME = RIVER-INDIANA-CABLE.DGN
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
 FAP 840 (IL 50)-RIVER STREET AND
 FAP 840 (IL 50)-INDIANA AVENUE
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 6/05

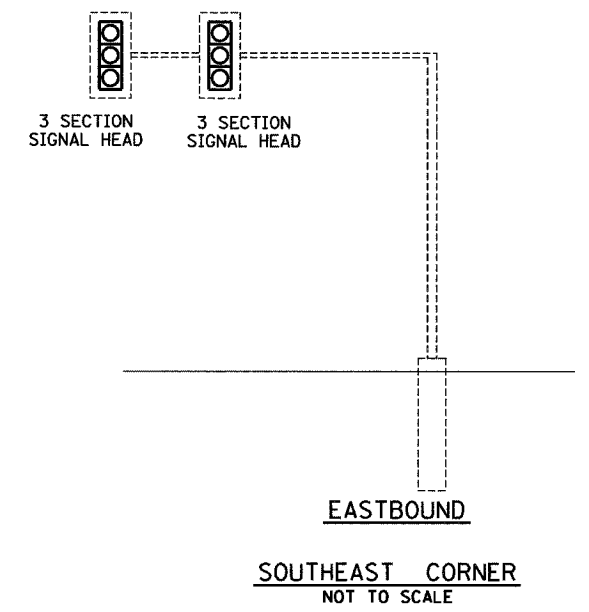
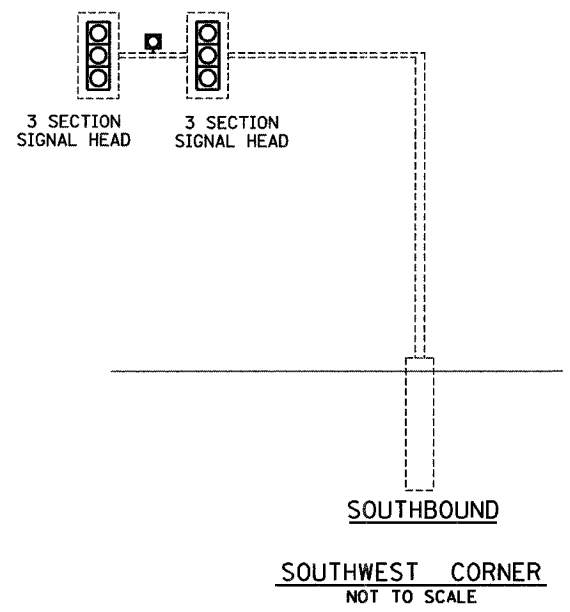
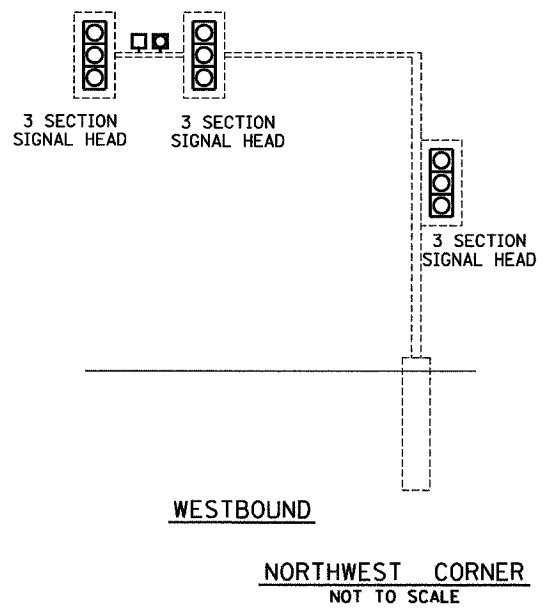
DRAWN BY ARR
 CHECKED BY JLS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|----------|------------------|-----------|
| * | ** | KANKAKEE | 48 | 35 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. - | | ILLINOIS | FED. AID PROJECT | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

| ELECTRICAL LOAD FOR INTERSECTION | | | | |
|----------------------------------|---------------------------|--------|--------------|------------|
| STREET NAME | COMPONENT | NUMBER | WATTAGE EACH | BURNTIME % |
| INDIANA AVENUE | RED | 4 | 10 | 68 |
| | YELLOW | 4 | 19 | 5 |
| | GREEN | 4 | 14 | 27 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| RIVER STREET | RED | 4 | 10 | 74 |
| | YELLOW | 4 | 19 | 5 |
| | GREEN | 4 | 14 | 21 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| TRAFFIC SIGNAL CABINET | CONTROLLER | 1 | 6 | 100 |
| | VEHICLE DETECTORS | 4 | 4 | 100 |
| | UPS | 1 | 50 | 100 |
| | EMERGENCY VEHICLE PREEMPT | 3 | -- | -- |

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF KANKAKEE



ILLINOIS ROUTE 50 (INDIANA AVENUE) / ILLINOIS ROUTE 50 (RIVER STREET)

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
FAP 840 (IL 50)-RIVER STREET AND
FAP 840 (IL 50)-INDIANA AVENUE
SECTION (139 Z, 11) TS-1 & (1) TS-2
KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
HORIZ. 1" = 20'

DATE 6/05

DRAWN BY ARR
CHECKED BY JLS

PLOT DATE = 4/07
FILE NAME = tsdet.dgn
PLOT SCALE = 1" = 20"
USER NAME = ARR

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|---------------------------|--------------|-----------|
| * | ** | KANKAKEE | 48 | 36 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

CONSTRUCTION NOTES:

REMOVE AND REPLACE CONTROLLER AND CABINET ON EXISTING FOUNDATION. INSTALL UNINTERRUPTIBLE POWER SUPPLY.

REMOVE ABANDONED TRAFFIC SIGNAL POST AND FOUNDATION IN SOUTHWEST CORNER.

RETROFIT ONE (1) 5-SECTION AND FIVE (5) 3-SECTION MAST ARM MOUNTED HEADS WITH LED HEADS.

REMOVE AND REPLACE TRAFFIC SIGNAL POST ON ALL FOUR (4) CORNERS ON EXISTING FOUNDATIONS.

REMOVE AND REPLACE 5-SECTION BRACKET MOUNTED HEAD WITH LED HEAD IN NORTHEAST CORNER.

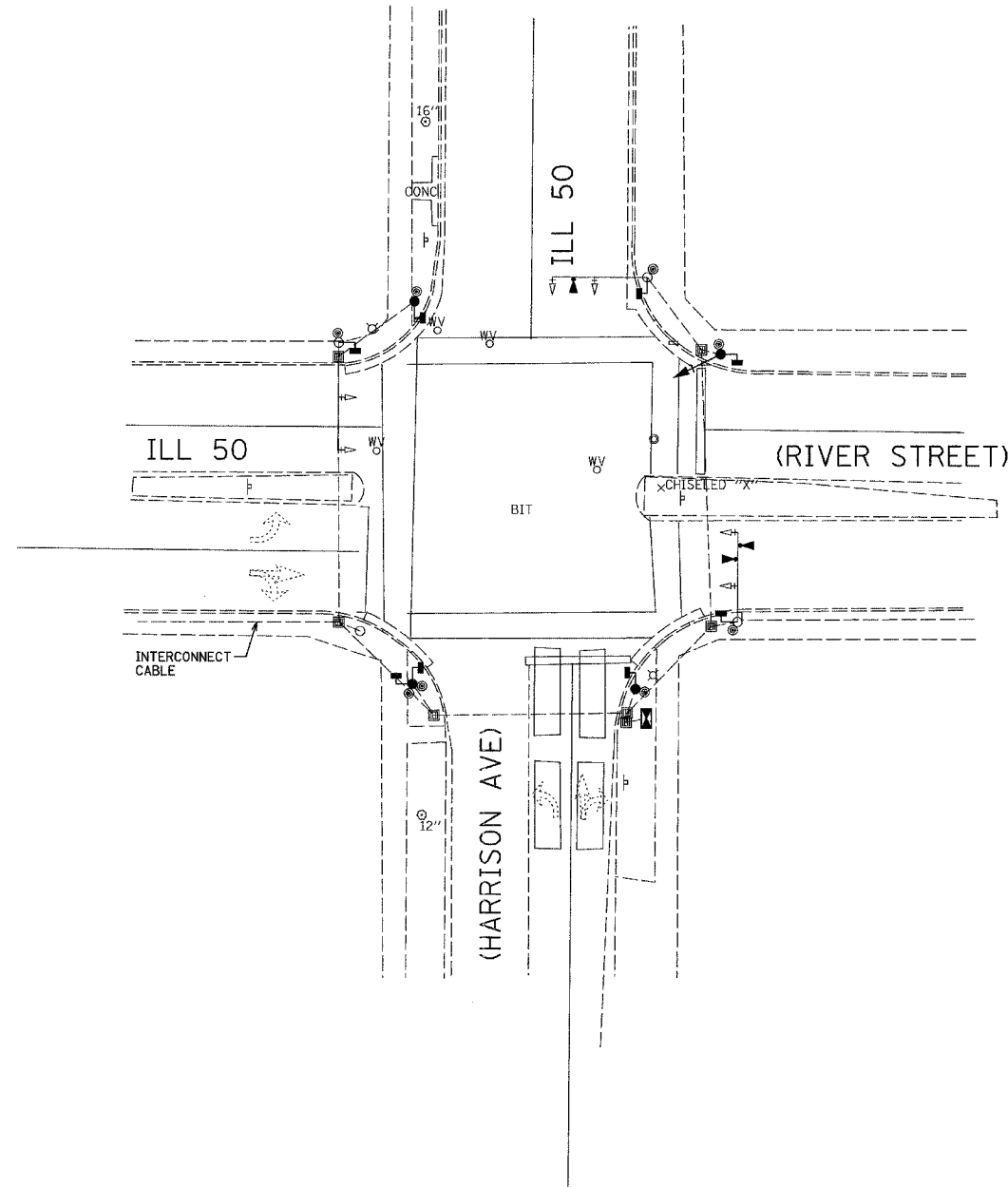
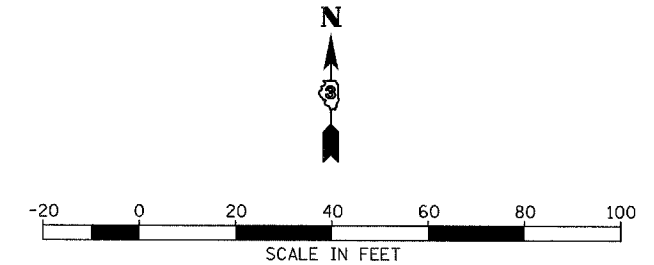
REMOVE AND REPLACE EIGHT (8) PEDESTRIAN HEADS WITH LED SYMBOL HEADS.

REMOVE AND REPLACE EIGHT (8) PEDESTRIAN PUSH - BUTTONS.

THE REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT PAY ITEM SHALL BE USED TO FACILITATE THE PLACEMENT OF ADDITIONAL CABLE IN THE EXISTING CONDUIT

REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:

- 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
- 5 EACH - TRAFFIC SIGNAL POST
- 1 EACH - SIGNAL HEAD, 1-FACE, 5-SECTION, BRACKET MOUNTED
- 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
- 8 EACH - PEDESTRIAN PUSH - BUTTON



SCHEDULE OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ④ | ⑤ |
|----------|---|------|----------------|-------|----|
| 85700205 | FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL | EACH | 1 | 1 | -- |
| 86200300 | UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 | 1 | -- |
| 86400100 | TRANSCEIVER-FIBER OPTIC | EACH | 1 | 1 | -- |
| 87502500 | TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 4 | 4 | -- |
| 88040150 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 1 | 1 | -- |
| 88102710 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED | EACH | 8 | 8 | -- |
| 88200410 | TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 1 | 1 | -- |
| 88500100 | INDUCTIVE LOOP DETECTOR | EACH | 4 | 4 | -- |
| 88800100 | PEDESTRIAN PUSH-BUTTON | EACH | 8 | 8 | -- |
| 89502350 | REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT | FOOT | 3240 | 3240 | -- |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 | 1 | -- |
| 89502385 | REMOVE EXISTING CONCRETE FOUNDATION | EACH | 1 | 1 | -- |
| X0323336 | LED SIGNAL FACE RETROFIT, RED BALL | EACH | 6 | 6 | -- |
| X0323337 | LED SIGNAL FACE RETROFIT, GREEN BALL | EACH | 6 | 6 | -- |
| X0323418 | LED SIGNAL FACE RETROFIT, YELLOW BALL | EACH | 6 | 6 | -- |
| X0323419 | LED SIGNAL FACE RETROFIT, YELLOW ARROW | EACH | 1 | 1 | -- |
| X0323420 | LED SIGNAL FACE RETROFIT, GREEN ARROW | EACH | 1 | 1 | -- |
| X8730027 | ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C | FOOT | 408.5 | 408.5 | -- |
| X8860100 | LOOP DETECTOR TESTING | EACH | 1 | 1 | -- |
| XX002179 | ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C | FOOT | 401 | 401 | -- |
| *3001707 | LIGHT DETECTOR, INSTALLATION ONLY | EACH | 3 | -- | 3 |
| *3001826 | CONFIRMATION BEACON, INSTALLATION ONLY | EACH | 3 | -- | 3 |
| *3001708 | LIGHT DETECTOR AMPLIFIER, INSTALLATION ONLY | EACH | 3 | -- | 3 |

TRAFFIC SIGNALS LEGEND

| EXISTING | PROPOSED | |
|----------|----------|----------------------------------|
| □ | ■ | SERVICE INSTALLATION |
| ⊠ | ⊠ | CONTROLLER CABINET |
| --- | --- | CONDUIT |
| ▲ | ▶ | SIGNAL HEAD WITH BACKPLATE |
| ○ | ● | STEEL MAST ARM |
| ○ | ● | TRAFFIC SIGNAL POST |
| ⊠ | ⊠ | HANDHOLE |
| ⊠ | ⊠ | DOUBLE HANDHOLE |
| □ | ■ | PEDESTRIAN SIGNAL HEAD |
| ⊙ | ⊙ | PEDESTRIAN PUSH BUTTON |
| ▲ | ▶ | EMERGENCY VEHICLE LIGHT DETECTOR |

LEGEND

- ① 80% FEDERAL, 20% STATE
- ② 80% FEDERAL, 15% STATE, 5% CITY
- ③ 80% FEDERAL, 13.3% STATE, 6.7% CITY
- ④ 80% FEDERAL, 10% STATE, 10% CITY
- ⑤ 100% CITY

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL PLAN
 FAP 840 (IL 50)-RIVER STREET AND
 FAP 840 (IL 50)-HARRISON AVENUE
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 6/05

DRAWN BY ARR
 CHECKED BY MVF

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|---------|---------------------------|--------------|-----------|
| • | •• | KANKAKEE | 48 | 37 |
| STA. TO STA. | | ILLINOIS FED. AID PROJECT | | |

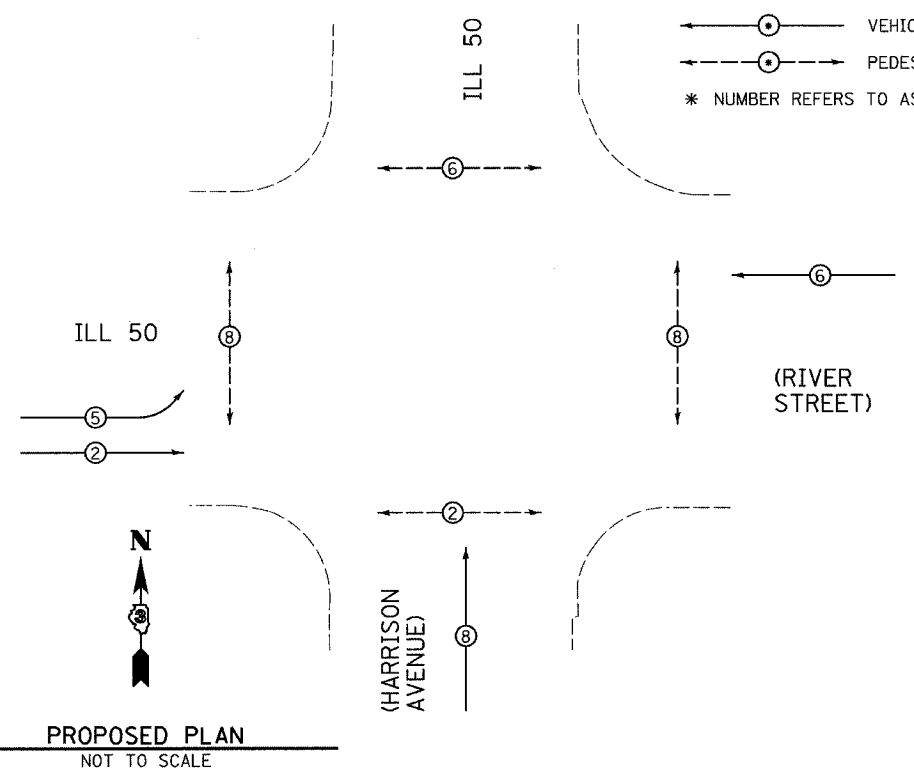
- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

CONTROLLER SEQUENCE

NAME OF INTERSECTION: ILL 50 (RIVER STREET) AND ILL 50 (HARRISON AVENUE)
 CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED.

LEGEND

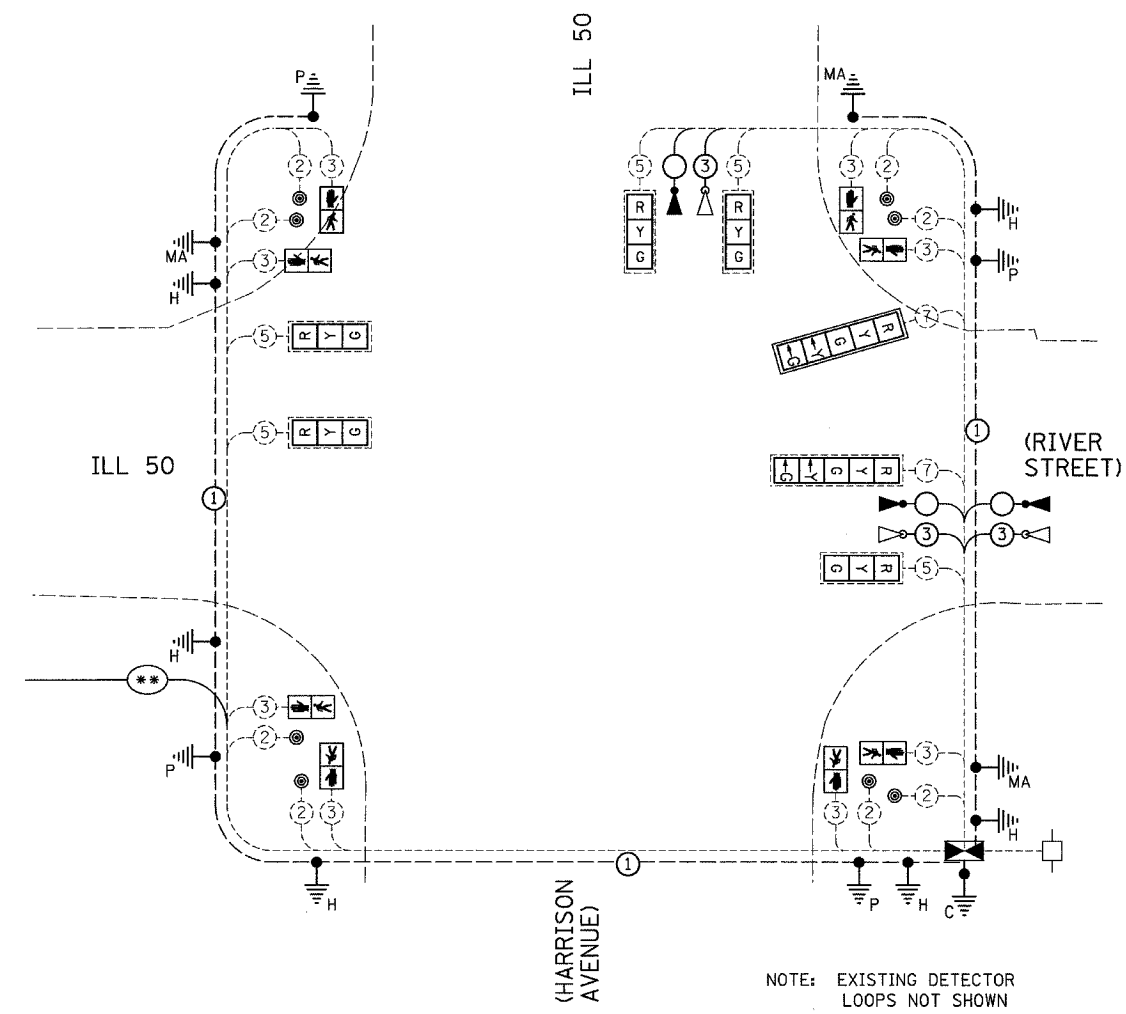
- VEHICULAR MOVEMENT
- - -○- - - PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE



PROPOSED PLAN
NOT TO SCALE

PROPOSED TRAFFIC SIGNALS LEGEND

- ⊙ PROPOSED CABLE NUMBER
* = CABLE NUMBER
- ▶ EMERGENCY VEHICLE CONFIRMATION BEACON
- ◁ EMERGENCY VEHICLE LIGHT DETECTOR
- ⊛ PROPOSED INTERCONNECT CABLE
- ⊠ PROPOSED CONTROLLER CABINET
- ⊙ PEDESTRIAN PUSH BUTTON
- ⊠-Y LEFT TURN YELLOW
- ⊠-G LEFT TURN GREEN
- ⊠- SIGNAL SECTION 12"
- ⊠- WALK/DON'T WALK SECTION
- ⊠- TRAFFIC SIGNAL BACKPLATE
- ⊠- RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS
- ⊠- GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
- ⊠- C GROUND ROD AT CONTROLLER (C), POST (P), MAST ARM (MA), SERVICE (S), OR HANDHOLE (H)



PROPOSED CABLE PLAN
NOT TO SCALE

NOTE: EXISTING DETECTOR LOOPS NOT SHOWN

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
 FAP 840 (IL 50)-RIVER STREET AND
 FAP 840 (IL 50)-HARRISON AVENUE
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 6/05

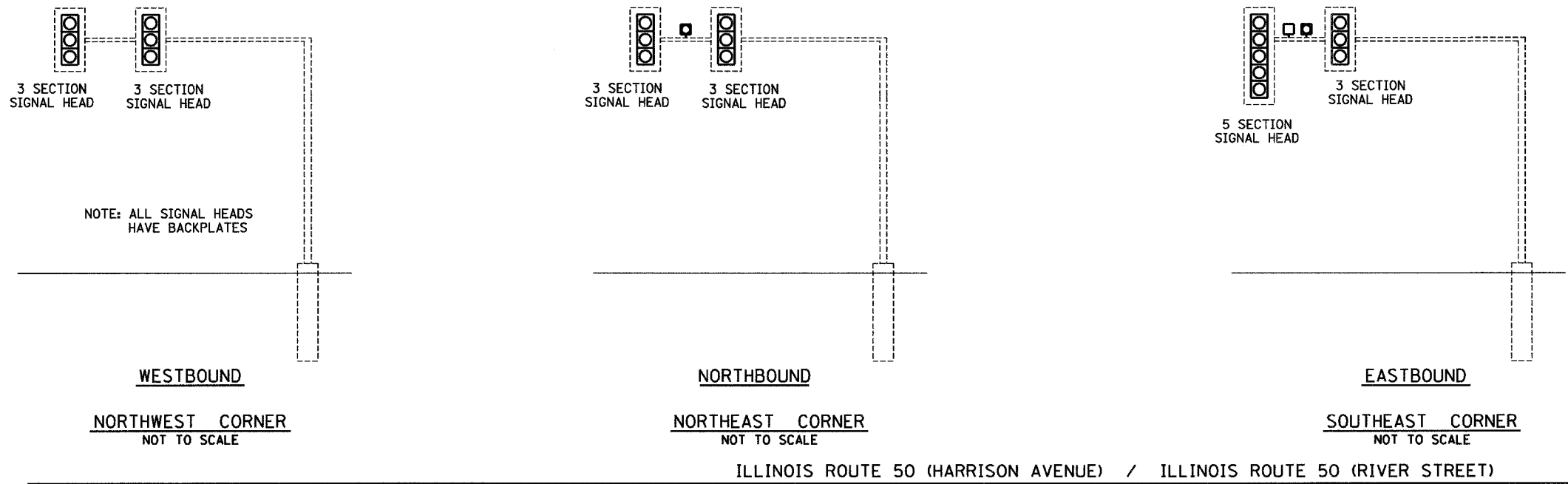
DRAWN BY ARR
 CHECKED BY JLS

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|---------------------------|--------------|-----------|
| * | ** | KANKAKEE | 48 | 38 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

| ELECTRICAL LOAD FOR INTERSECTION | | | | |
|----------------------------------|---------------------------|--------|--------------|------------|
| STREET NAME | COMPONENT | NUMBER | WATTAGE EACH | BURNTIME % |
| ILLINOIS ROUTE 50 (HARRISON AVE) | RED | 2 | 10 | 68 |
| | YELLOW | 2 | 19 | 5 |
| | GREEN | 2 | 14 | 27 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| ILLINOIS ROUTE 50 (RIVER STREET) | RED | 5 | 10 | 74 |
| | YELLOW | 5 | 19 | 5 |
| | GREEN | 5 | 14 | 21 |
| | YELLOW ARROW-RT. | 2 | 9 | 5 |
| | GREEN ARROW-LT. | 2 | 3,4 | 21 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| TRAFFIC SIGNAL CABINET | CONTROLLER | 1 | 6 | 100 |
| | VEHICLE DETECTORS | 4 | 4 | 100 |
| | UPS | 1 | 50 | 100 |
| | EMERGENCY VEHICLE PREEMPT | 3 | -- | -- |

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF KANKAKEE



PLOT DATE = 4/07
FILE NAME = ts06a.dgn
PLOT SCALE = 1" = 20'
USER NAME = ARR

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
FAP 840 (IL 50)-RIVER STREET AND
FAP 840 (IL 50)-HARRISON AVENUE
SECTION (139 Z, 11) TS-1 & (1) TS-2
KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
HORIZ. 1" = 20'
DATE 6/05

DRAWN BY ARR
CHECKED BY JLS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|----------|------------------|-----------|
| * | ** | KANKAKEE | 48 | 39 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. _ | | ILLINOIS | FED. AID PROJECT | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

CONSTRUCTION NOTES:

REMOVE AND REPLACE CONTROLLER AND CABINET ON EXISTING FOUNDATION. INSTALL UNINTERRUPTIBLE POWER SUPPLY.

RETROFIT ONE (1) 5-SECTION AND FIVE (5) 3-SECTION MAST ARM MOUNTED HEADS WITH LED HEADS.

REMOVE AND REPLACE FIVE (5) TRAFFIC SIGNAL POSTS ON EXISTING FOUNDATIONS.

REMOVE AND REPLACE 5-SECTION BRACKET MOUNTED HEAD WITH LED HEAD IN NORTHEAST CORNER.

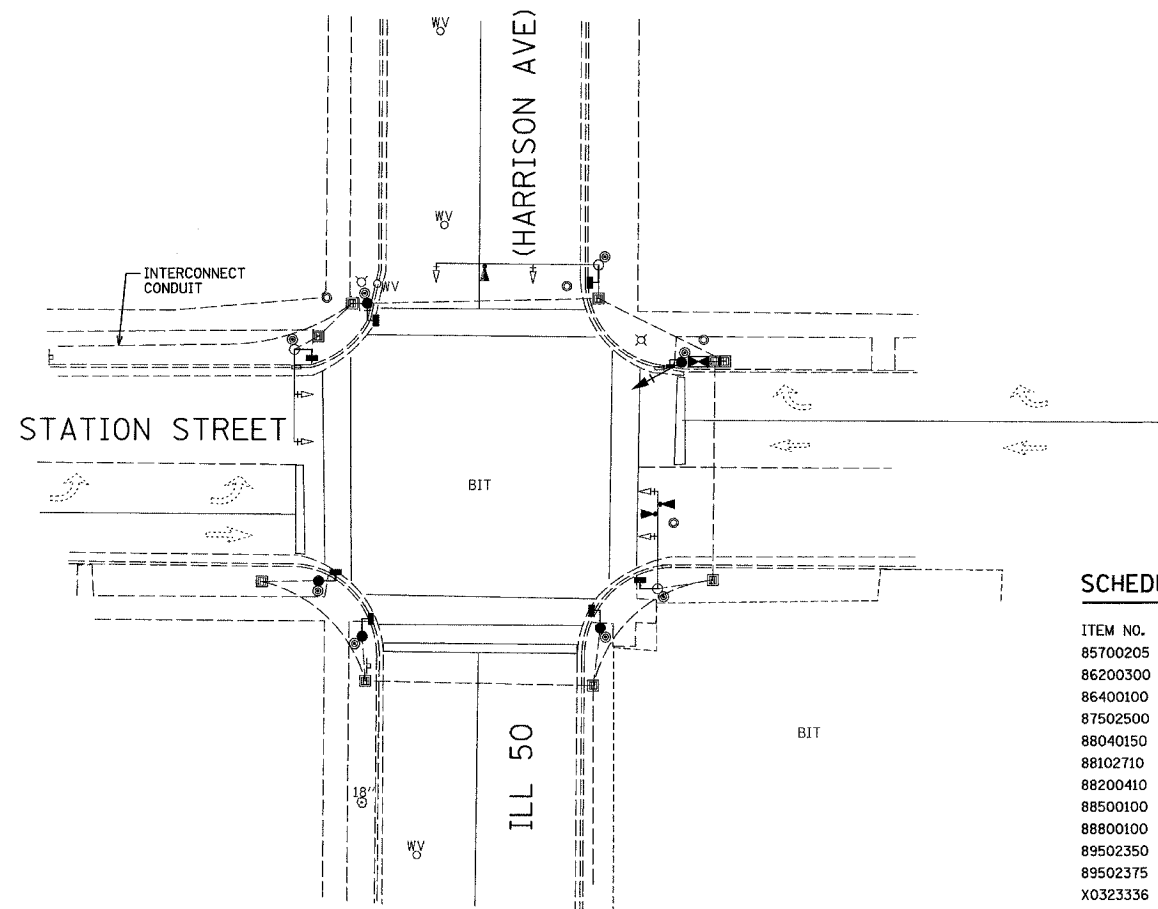
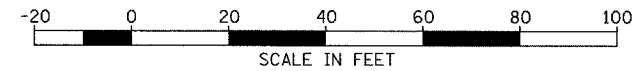
REMOVE AND REPLACE EIGHT (8) PEDESTRIAN HEADS WITH LED SYMBOL HEADS.

REMOVE AND REPLACE EIGHT (8) PEDESTRIAN PUSH - BUTTONS.

THE REMOVAL AND REINSTALL ELECTRIC CABLE FROM CONDUIT PAY ITEM SHALL BE USED TO FACILITATE THE PLACEMENT OF ADDITIONAL CABLE IN THE EXISTING CONDUIT.

REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:

- 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
- 5 EACH - TRAFFIC SIGNAL POST
- 1 EACH - SIGNAL HEAD, 1-FACE, 5-SECTION, BRACKET MOUNTED
- 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
- 8 EACH - PEDESTRIAN PUSH - BUTTON



SCHEDULE OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ④ | ⑤ |
|----------|---|------|----------------|-------|----|
| 85700205 | FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL | EACH | 1 | 1 | -- |
| 86200300 | UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 | 1 | -- |
| 86400100 | TRANSCEIVER-FIBER OPTIC | EACH | 1 | 1 | -- |
| 87502500 | TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 5 | 5 | -- |
| 88040150 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 1 | 1 | -- |
| 88102710 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED | EACH | 8 | 8 | -- |
| 88200410 | TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 1 | 1 | -- |
| 88500100 | INDUCTIVE LOOP DETECTOR | EACH | 4 | 4 | -- |
| 88800100 | PEDESTRIAN PUSH-BUTTON | EACH | 8 | 8 | -- |
| 89502350 | REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT | FOOT | 3029 | 3029 | -- |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 | 1 | -- |
| X0323356 | LED SIGNAL FACE RETROFIT, RED BALL | EACH | 6 | 6 | -- |
| X0323357 | LED SIGNAL FACE RETROFIT, GREEN BALL | EACH | 6 | 6 | -- |
| X0323418 | LED SIGNAL FACE RETROFIT, YELLOW BALL | EACH | 6 | 6 | -- |
| X0323419 | LED SIGNAL FACE RETROFIT, YELLOW ARROW | EACH | 1 | 1 | -- |
| X0323420 | LED SIGNAL FACE RETROFIT, GREEN ARROW | EACH | 1 | 1 | -- |
| X8730027 | ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C | FOOT | 442.5 | 442.5 | -- |
| X8860100 | LOOP DETECTOR TESTING | EACH | 1 | 1 | -- |
| XX002179 | ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C | FOOT | 378 | 378 | -- |
| *3001707 | LIGHT DETECTOR, INSTALLATION ONLY | EACH | 3 | -- | 3 |
| *3001826 | CONFIRMATION BEACON, INTSTALLATION ONLY | EACH | 3 | -- | 3 |
| *3001708 | LIGHT DETECTOR AMPLIFIER, INSTALLATION ONLY | EACH | 3 | -- | 3 |

TRAFFIC SIGNALS LEGEND

| EXISTING | PROPOSED | |
|----------|----------|----------------------------------|
| | | SERVICE INSTALLATION |
| | | CONTROLLER CABINET |
| | | CONDUIT |
| | | SIGNAL HEAD WITH BACKPLATE |
| | | STEEL MAST ARM |
| | | TRAFFIC SIGNAL POST |
| | | HANDHOLE |
| | | DOUBLE HANDHOLE |
| | | PEDESTRIAN SIGNAL HEAD |
| | | PEDESTRIAN PUSH BUTTON |
| | | EMERGENCY VEHICLE LIGHT DETECTOR |

LEGEND

- ① 80% FEDERAL, 20% STATE
- ② 80% FEDERAL, 15% STATE, 5% CITY
- ③ 80% FEDERAL, 13.3% STATE, 6.7% CITY
- ④ 80% FEDERAL, 10% STATE, 10% CITY
- ⑤ 100% CITY

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL PLAN
 FAP 840 (IL 50)-HARRISON AVENUE
 AND STATION STREET
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 6/05

DRAWN BY ARR
 CHECKED BY JLS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|---------------------------|--------------|-----------|
| * | ** | KANKAKEE | 48 | 40 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

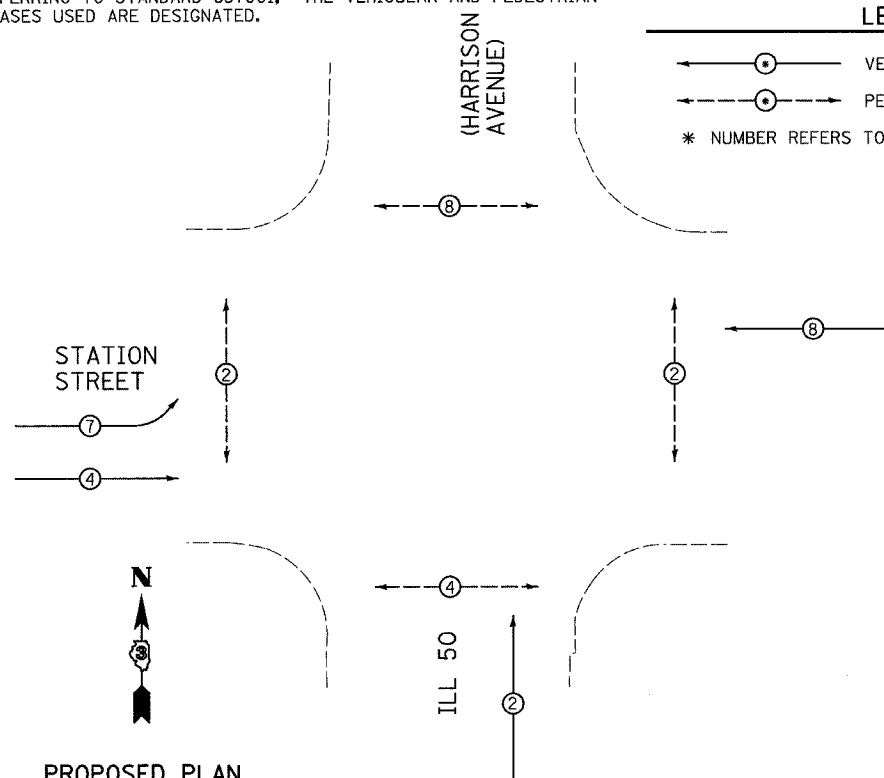
- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

CONTROLLER SEQUENCE

NAME OF INTERSECTION: ILL 50 (HARRISON AVENUE) AND STATION STREET
 CONTROLLER SPECIFIED: FULL-ACTUATED CONTROLLER, STANDARD SEQUENCE II, 8 PHASE, IN TYPE IV CABINET
 REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED.

LEGEND

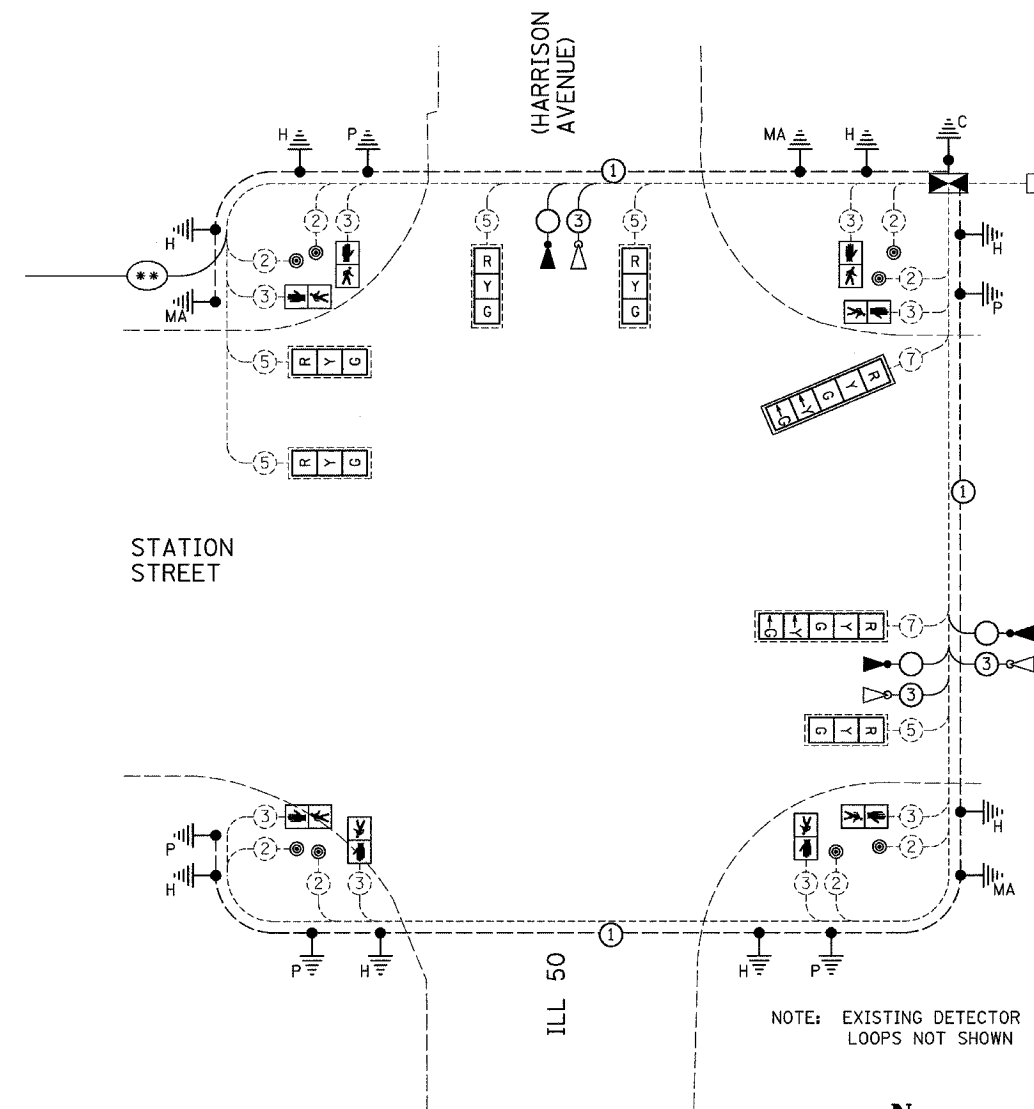
- VEHICULAR MOVEMENT
- PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE



PROPOSED PLAN
NOT TO SCALE

PROPOSED TRAFFIC SIGNALS LEGEND

- PROPOSED CABLE NUMBER
- *CABLE NUMBER
- EMERGENCY VEHICLE CONFIRMATION BEACON
- EMERGENCY VEHICLE LIGHT DETECTOR
- PROPOSED INTERCONNECT CABLE
- PROPOSED CONTROLLER CABINET
- PEDESTRIAN PUSH BUTTON
- LEFT TURN YELLOW
- LEFT TURN GREEN
- SIGNAL SECTION 12"
- WALK/DON'T WALK SECTION
- TRAFFIC SIGNAL BACKPLATE
- RETROFIT EXISTING TRAFFIC SIGNAL WITH LED HEADS
- GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)
- GROUND ROD AT CONTROLLER (C), POST (P), MAST ARM (MA), SERVICE (S), OR HANDHOLE (H)



NOTE: EXISTING DETECTOR LOOPS NOT SHOWN

PROPOSED CABLE PLAN
NOT TO SCALE

PLOT DATE = 4/07
 FILE NAME = STATION-HARRISON-CABLE.DGN
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
 CABLE PLAN
 FAP 840 (IL 50)-HARRISON AVENUE
 AND STATION STREET
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

VERT. 1" = 20'
 SCALE: HORIZ. 1" = 20'
 DATE 6/05

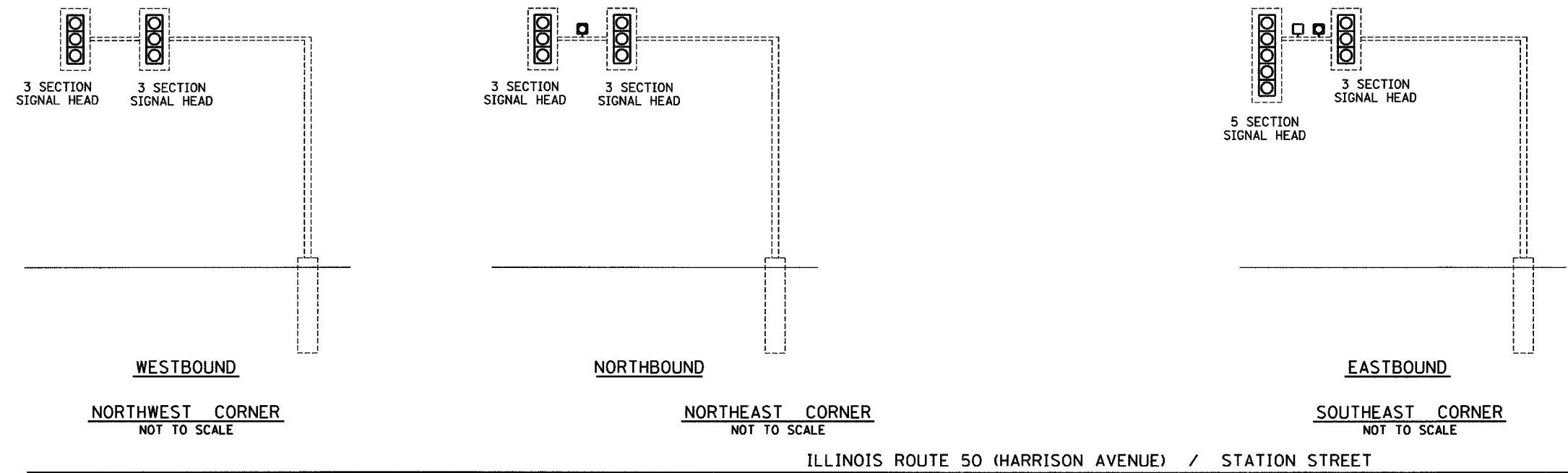
DRAWN BY ARR
 CHECKED BY JLS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|---------------------------|--------------|-----------|
| * | ** | KANKAKEE | 48 | 41 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

| ELECTRICAL LOAD FOR INTERSECTION | | | | |
|----------------------------------|---------------------------|--------|--------------|------------|
| STREET NAME | COMPONENT | NUMBER | WATTAGE EACH | BURNTIME % |
| ILLINOIS ROUTE 50 (HARRISON AVE) | RED | 2 | 10 | 68 |
| | YELLOW | 2 | 19 | 5 |
| | GREEN | 2 | 14 | 27 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| STATION STREET | RED | 5 | 10 | 74 |
| | YELLOW | 5 | 19 | 5 |
| | GREEN | 5 | 14 | 21 |
| | YELLOW ARROW-RT. | 2 | 9 | 5 |
| | GREEN ARROW-LT. | 2 | 3.4 | 21 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| TRAFFIC SIGNAL CABINET | CONTROLLER | 1 | 6 | 100 |
| | VEHICLE DETECTORS | 4 | 4 | 100 |
| | UPS | 1 | 50 | 100 |
| | EMERGENCY VEHICLE PREEMPT | 3 | -- | -- |

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF KANKAKEE



PLOT DATE = 4/07
FILE NAME = tsdet.dgn
PLOT SCALE = 1" = 20'
USER NAME = ARR

| REVISIONS | |
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| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
FAP 840 (IL 50)-HARRISON AVENUE
AND STATION STREET
SECTION (139 Z, 11) TS-1 & (1) TS-2
KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
HORIZ. 1" = 20'

DATE 6/05

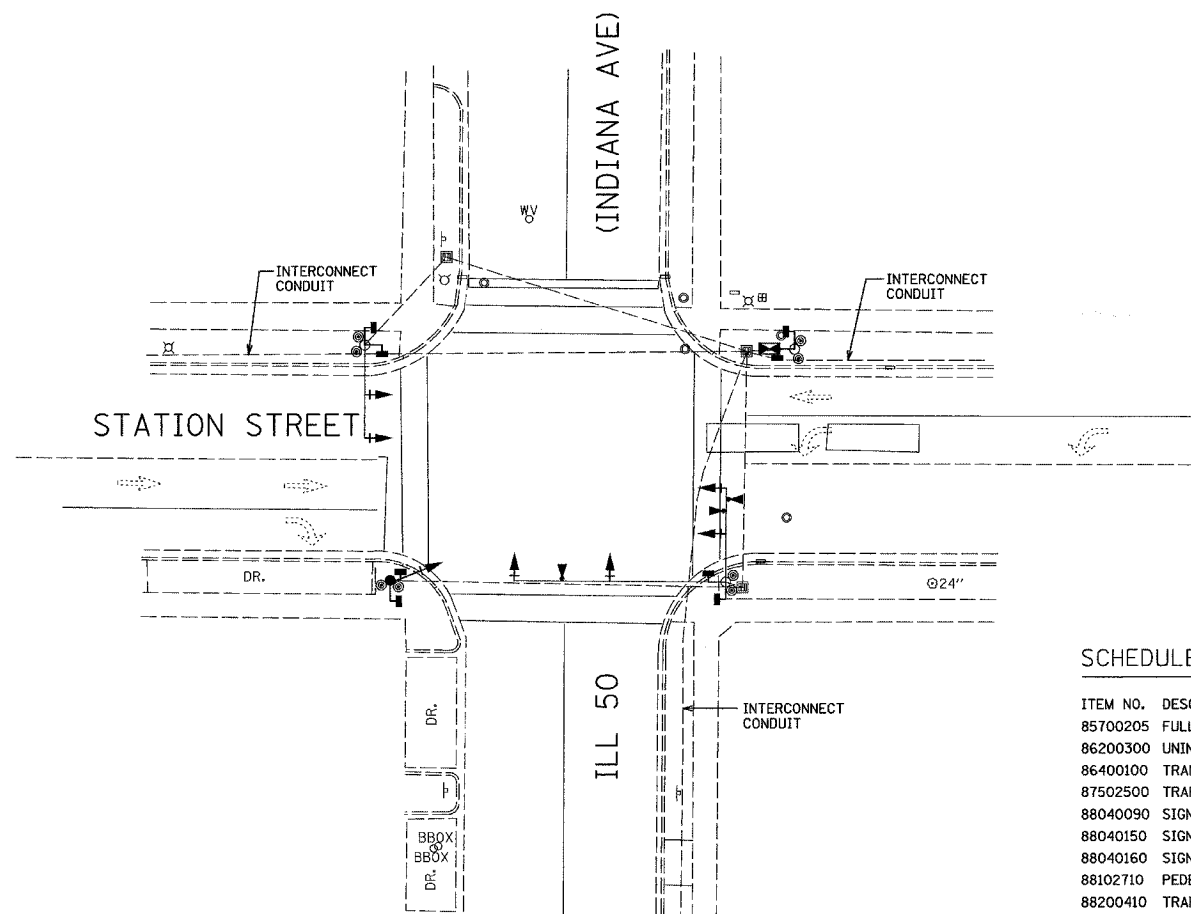
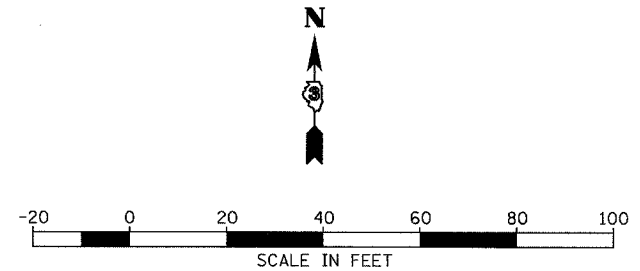
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CHECKED BY JLS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|----------|------------------|-----------|
| * | ** | KANKAKEE | 48 | 42 |
| STA. TO STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

CONSTRUCTION NOTES:

- REMOVE AND REPLACE CONTROLLER AND CABINET ON EXISTING FOUNDATION. INSTALL UNINTERRUPTIBLE POWER SUPPLY.
- REMOVE AND REPLACE TRAFFIC SIGNAL POST ON EXISTING FOUNDATION IN SOUTHWEST CORNER.
- REMOVE AND REPLACE ONE (1) 5-SECTION AND FIVE (5) 3-SECTION MAST ARM MOUNTED HEADS AND ONE (1) 5-SECTION BRACKET MOUNTED HEAD WITH LED HEADS.
- REMOVE AND REPLACE EIGHT (8) PEDESTRIAN HEADS WITH LED SYMBOL HEADS.
- REMOVE AND REPLACE EIGHT (8) PEDESTRIAN PUSH-BUTTONS.
- THE REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT PAY ITEM SHALL BE USED TO FACILITATE THE PLACEMENT OF ADDITIONAL CABLE IN THE EXISTING CONDUIT.
- REMOVAL OF THE FOLLOWING ITEMS SHALL BE PAID FOR AS REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT:
 - 1 EACH - CONTROLLER AND CABINET W/ ALL CONTENTS
 - 1 EACH - TRAFFIC SIGNAL POST
 - 1 EACH - SIGNAL HEAD, 1-FACE, 5-SECTION, MAST ARM MOUNTED
 - 1 EACH - SIGNAL HEAD, 1-FACE, 5-SECTION, BRACKET MOUNTED
 - 5 EACH - SIGNAL HEAD, 1-FACE, 3-SECTION, MAST ARM MOUNTED
 - 8 EACH - PEDESTRIAN SIGNAL HEAD, 1-FACE, BRACKET MOUNTED
 - 8 EACH - PEDESTRIAN PUSH - BUTTON



| EXISTING | PROPOSED | DESCRIPTION |
|----------|----------|----------------------------------|
| [Symbol] | [Symbol] | SERVICE INSTALLATION |
| [Symbol] | [Symbol] | CONTROLLER CABINET |
| --- | --- | CONDUIT |
| [Symbol] | [Symbol] | SIGNAL HEAD WITH BACKPLATE |
| [Symbol] | [Symbol] | STEEL MAST ARM |
| [Symbol] | [Symbol] | TRAFFIC SIGNAL POST |
| [Symbol] | [Symbol] | HANDHOLE |
| [Symbol] | [Symbol] | DOUBLE HANDHOLE |
| [Symbol] | [Symbol] | PEDESTRIAN SIGNAL HEAD |
| [Symbol] | [Symbol] | PEDESTRIAN PUSH BUTTON |
| [Symbol] | [Symbol] | EMERGENCY VEHICLE LIGHT DETECTOR |

SCHEDULE OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ④ | ⑤ |
|----------|--|------|----------------|-------|----|
| 85700205 | FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL | EACH | 1 | 1 | -- |
| 86200300 | UNINTERRUPTABLE POWER SUPPLY, EXTENDED | EACH | 1 | 1 | -- |
| 86400100 | TRANSCEIVER-FIBER OPTIC | EACH | 1 | 1 | -- |
| 87502500 | TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 1 | 1 | -- |
| 88040090 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED | EACH | 5 | 5 | -- |
| 88040150 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 1 | 1 | -- |
| 88040160 | SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED | EACH | 1 | 1 | -- |
| 88102710 | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED | EACH | 8 | 8 | -- |
| 88200410 | TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 7 | 7 | -- |
| 88500100 | INDUCTIVE LOOP DETECTOR | EACH | 4 | 4 | -- |
| 88800100 | PEDESTRIAN PUSH-BUTTON | EACH | 8 | 8 | -- |
| 89502350 | REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT | FOOT | 2724 | 2724 | -- |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 | 1 | -- |
| X8730027 | ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C | FOOT | 290.5 | 290.5 | -- |
| X8860100 | LOOP DETECTOR TESTING | EACH | 1 | 1 | -- |
| XX002179 | ELECTRIC CABLE IN CONDUIT, COMMUNICATION, NO. 20 3/C | FOOT | 381 | 381 | -- |
| *3001707 | LIGHT DETECTOR, INSTALLATION ONLY | EACH | 3 | -- | 3 |
| *3001826 | CONFIRMATION BEACON, INSTALLATION ONLY | EACH | 3 | -- | 3 |
| *3001708 | LIGHT DETECTOR AMPLIFIER, INSTALLATION ONLY | EACH | 3 | -- | 3 |

LEGEND

- ① 80% FEDERAL, 20% STATE
- ② 80% FEDERAL, 15% STATE, 5% CITY
- ③ 80% FEDERAL, 13.3% STATE, 6.7% CITY
- ④ 80% FEDERAL, 10% STATE, 10% CITY
- ⑤ 100% CITY

| NAME | DATE |
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| ARR | 4/07 |
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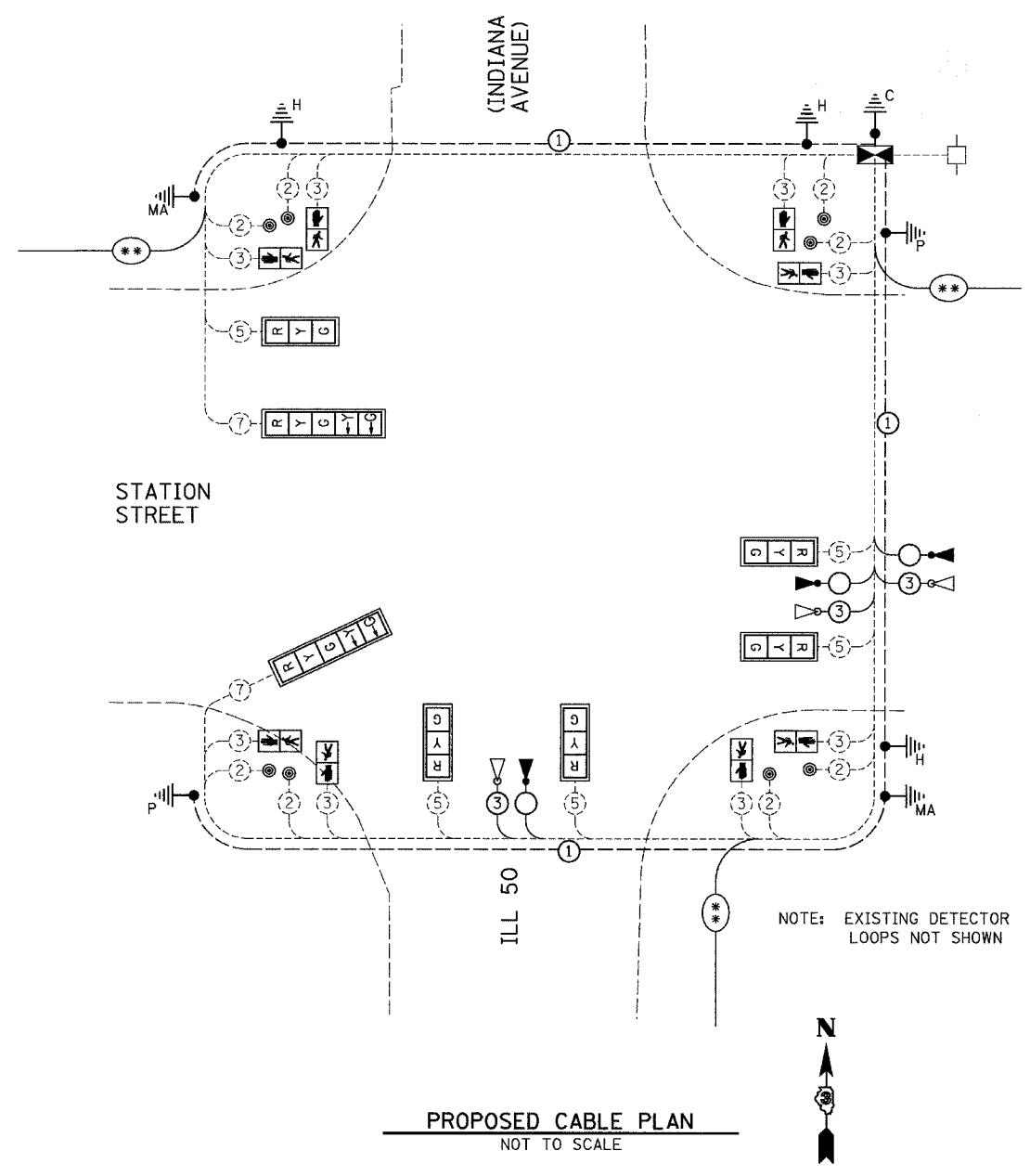
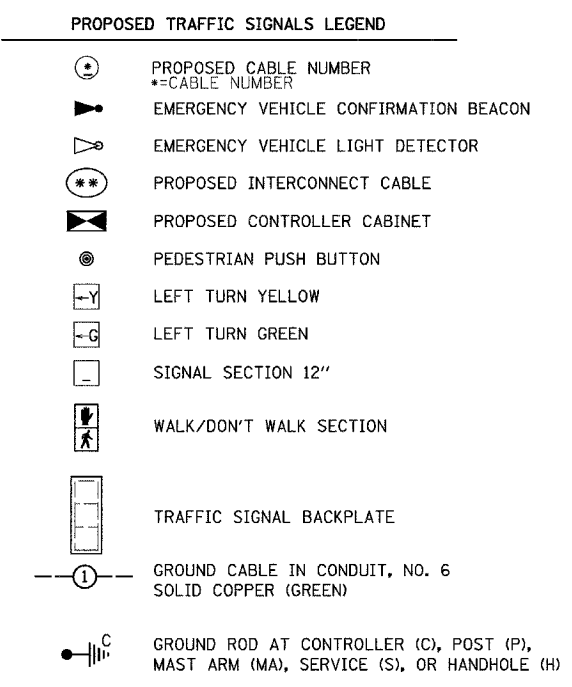
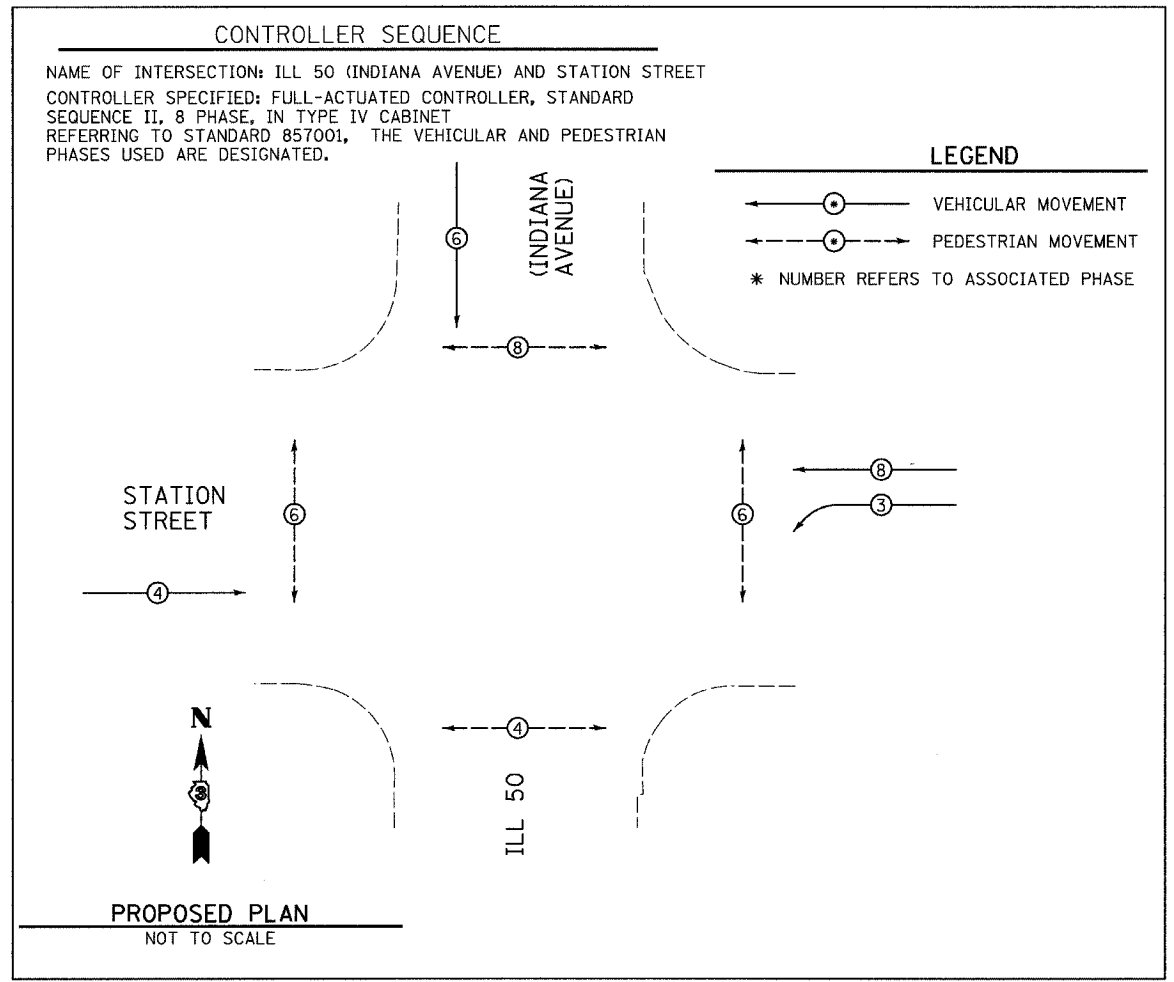
ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL PLAN
 FAP 840 (IL 50)-INDIANA AVENUE
 AND STATION STREET
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 6/05

DRAWN BY ARR
 CHECKED BY JLS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---------|----------|--------------|-----------|
| * | ** | KANKAKEE | 48 | 43 |
| STA. TO STA. | | | | |
| FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT | | | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2



PLOT DATE = 4/07
 FILE NAME = STATION-INDIANA-CABLE.DGN
 PLOT SCALE = 1" = 20'
 USER NAME = ARR

| REVISIONS | |
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| NAME | DATE |
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
CABLE PLAN
 FAP 840 (IL 50)-INDIANA AVENUE
 AND STATION STREET
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
 HORIZ. 1" = 20'
 DATE 6/05

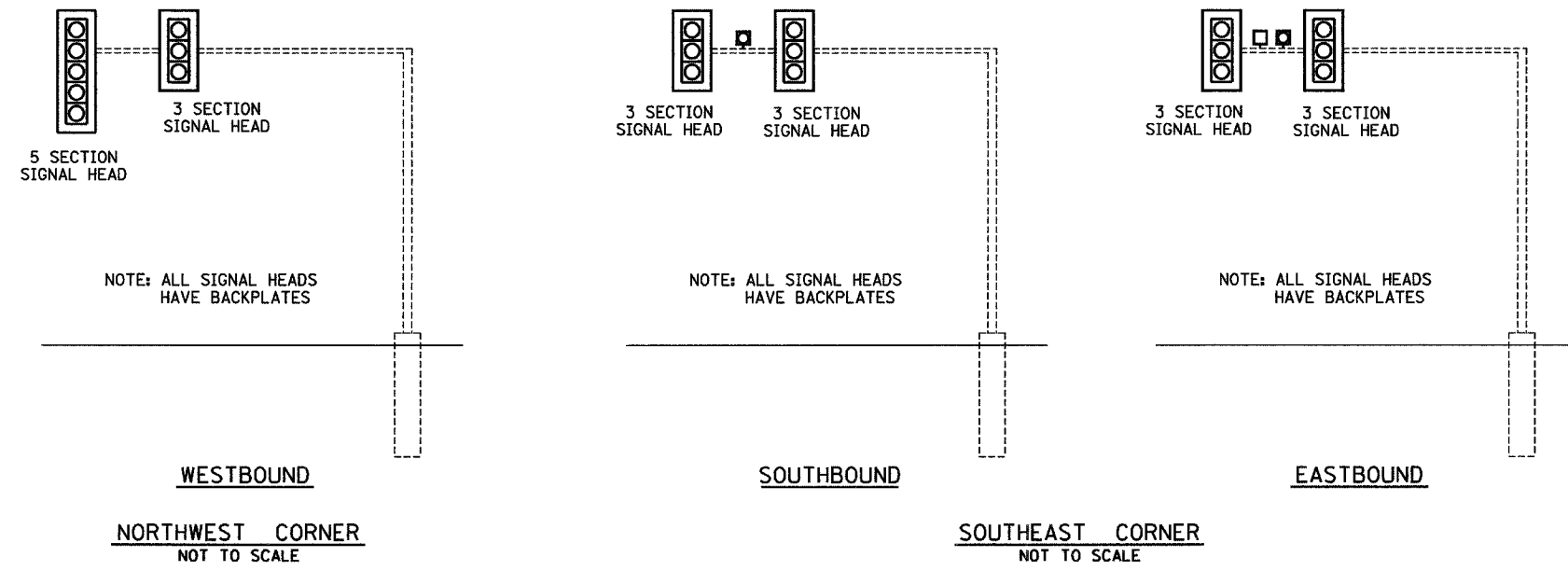
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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|----------|------------------|-----------|
| * | ** | KANKAKEE | 48 | 44 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. - | | ILLINOIS | FED. AID PROJECT | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

| ELECTRICAL LOAD FOR INTERSECTION | | | | |
|------------------------------------|---------------------------|--------|--------------|------------|
| STREET NAME | COMPONENT | NUMBER | WATTAGE EACH | BURNTIME % |
| ILLINOIS ROUTE 50 (INDIANA AVE) | RED | 2 | 10 | 68 |
| | YELLOW | 2 | 19 | 5 |
| | GREEN | 2 | 14 | 27 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| STATION STREET | RED | 5 | 10 | 74 |
| | YELLOW | 5 | 19 | 5 |
| | GREEN | 5 | 14 | 21 |
| | YELLOW ARROW-RT. | 2 | 9 | 5 |
| | GREEN ARROW-LT. | 2 | 3.4 | 21 |
| | | 4 | 8 | 95 |
| | | 4 | 6 | 5 |
| TRAFFIC SIGNAL CABINET | CONTROLLER | 1 | 6 | 100 |
| | VEHICLE DETECTORS | 4 | 4 | 100 |
| | UPS | 1 | 50 | 100 |
| | EMERGENCY VEHICLE PREEMPT | 3 | -- | -- |

AGENCY RESPONSIBLE FOR TRAFFIC SIGNAL ENERGY CHARGES:
CITY OF KANKAKEE



ILLINOIS ROUTE 50 (INDIANA AVENUE) / STATION STREET

PLOT DATE = 4/07
FILE NAME = tsdet.dgn
PLOT SCALE = 1" = 20'
USER NAME = ARR

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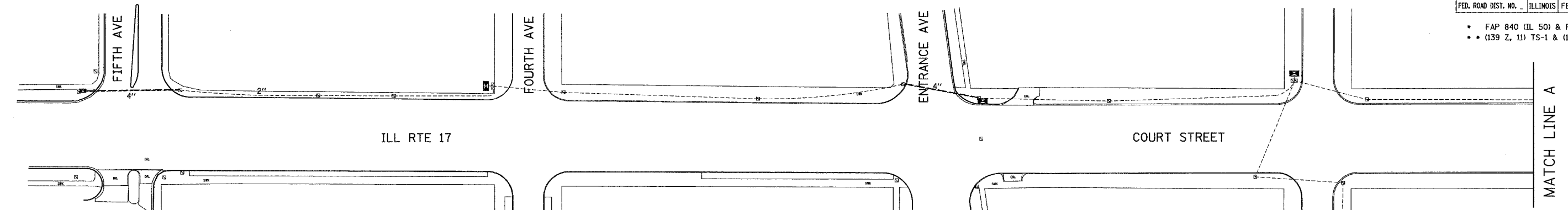
ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL DETAILS
FAP 840 (IL 50)-INDIANA AVENUE
AND STATION STREET
SECTION (139 Z, 11) TS-1 & (1) TS-2
KANKAKEE COUNTY

SCALE: VERT. 1" = 20'
HORIZ. 1" = 20'
DATE 6/05

DRAWN BY ARR
CHECKED BY JLS

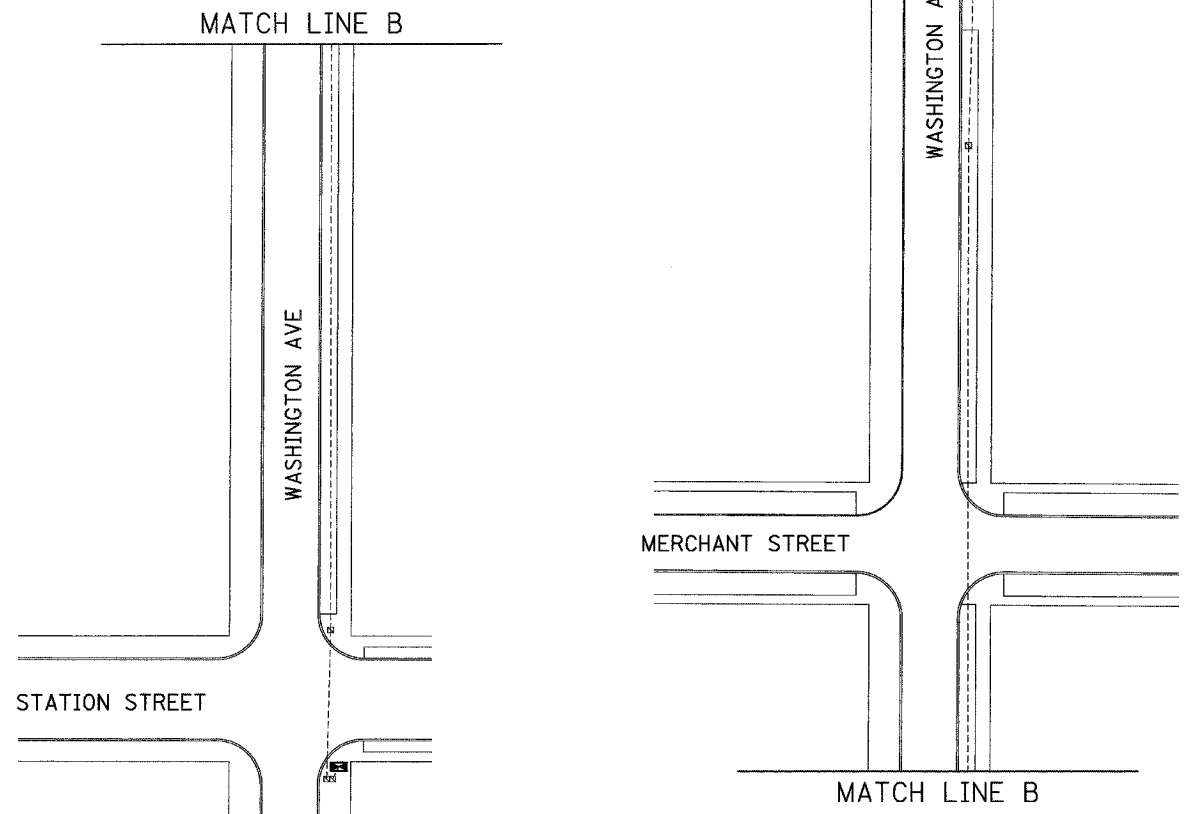
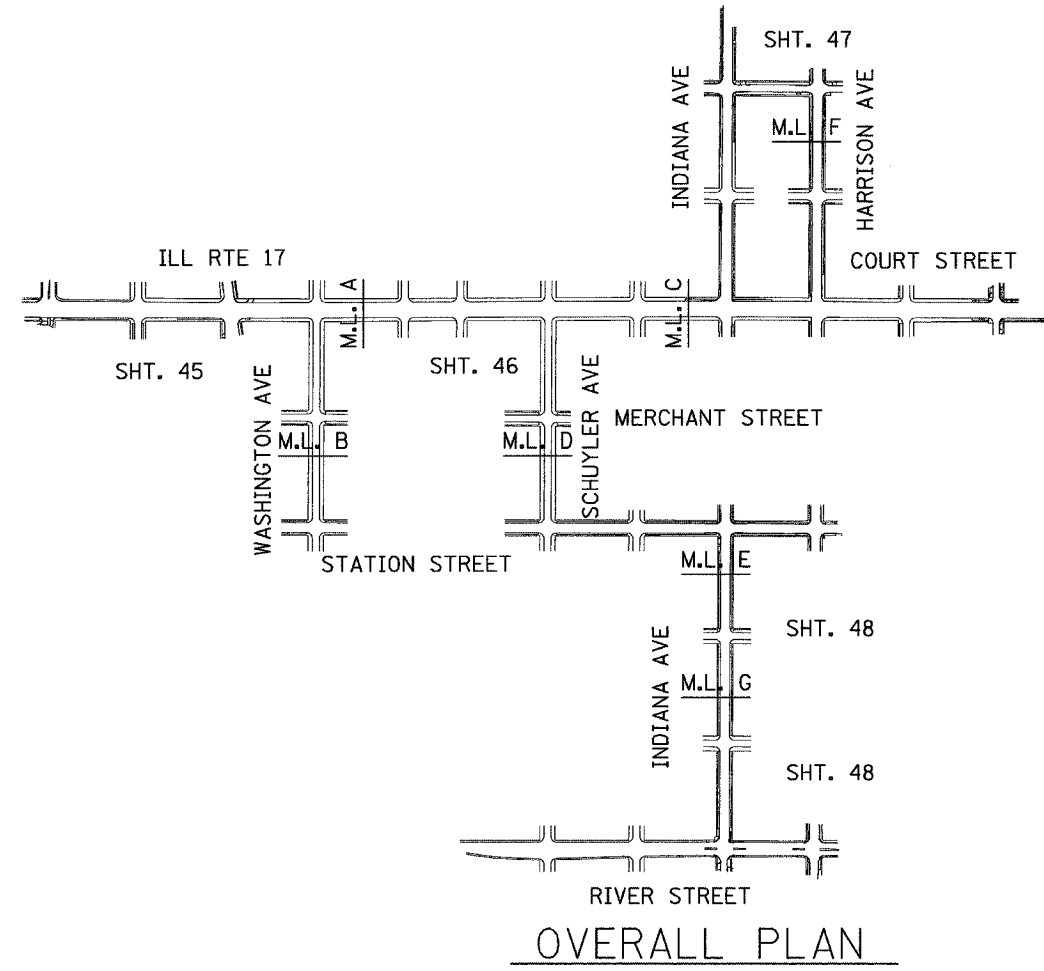
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|----------|------------------|-----------|
| * | ** | KANKAKEE | 48 | 45 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2



CONSTRUCTION NOTES:

- THE EXISTING AND PROPOSED INTERCONNECT CONDUIT SIZES AND LOCATIONS WERE DETERMINED FROM A REVIEW OF EXISTING PLANS AND A CURSORY FIELD CHECK. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACCURACY OF THE INFORMATION TO HIS(HER) SATISFACTION.
- THE CONTRACTOR SHALL REMOVE THE EXISTING INTERCONNECT CABLE AND REPLACE WITH FIBER OPTIC CABLE AS SPECIFIED. THE EXISTING CABLE FROM THE EXISTING MASTER CONTROLLER AT CITY HALL, 385 E. OAK ST., TO INDIANA AVE. AND RTE 17 (COURT ST.) SHALL BE REMOVED BUT NOT REPLACED.
- THE CONTRACTOR, AT HIS(HER) OPTION, MAY CHOOSE TO REMOVE AND REINSTALL EXISTING SIGNAL CABLE FROM CONDUITS TO FACILITATE THE INSTALLATION OF THE FIBER OPTIC CABLE. THIS WORK SHALL BE INCIDENTAL TO THE COST OF THE FIBER OPTIC CABLE.
- CONTROLLERS SHALL BE REPLACED IN THE EXISTING CABINETS AT THE FOLLOWING INTERSECTIONS:
ILL. RTE. 17 (COURT STREET) & FOURTH AVENUE
ILL. RTE. 17 (COURT STREET) & WASHINGTON AVENUE
STATION STREET & WASHINGTON AVENUE
- REMOVAL OF THE EXISTING CONTROLLERS NOTED ABOVE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR REMOVE EXISTING TRAFFIC CONTROL EQUIPMENT.

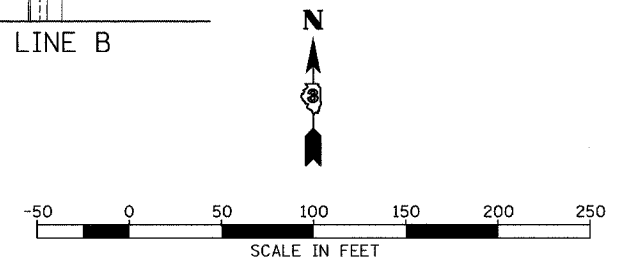


LEGEND

| EXISTING | PROPOSED | DESCRIPTION |
|----------|----------|--------------------------|
| | | CONTROLLER |
| | | CONCRETE HANDHOLE |
| | | DOUBLE CONCRETE HANDHOLE |
| | | CONDUIT |

SCHEDULE OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ④ |
|----------|---|------|----------------|------|
| 85700505 | FULL-ACTUATED CONTROLLER IN EXISTING CABINET, SPECIAL | EACH | 3 | 3 |
| 86400100 | TRANSCEIVER-FIBER OPTIC | EACH | 3 | 3 |
| 87100160 | FIBER OPTIC CABLE IN CONDUIT 62.5/125, 24F | FOOT | 2818 | 2818 |
| 89502210 | MODIFY EXISTING CONTROLLER CABINET | EACH | 3 | 3 |
| 89502350 | REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT | FOOT | 2829 | 2829 |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 3 | 3 |
| X0322925 | ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C | FOOT | 2818 | 2818 |
| XX002852 | RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM | EACH | 1 | 1 |



REVISIONS

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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL INTERCONNECT CABLE PLAN
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

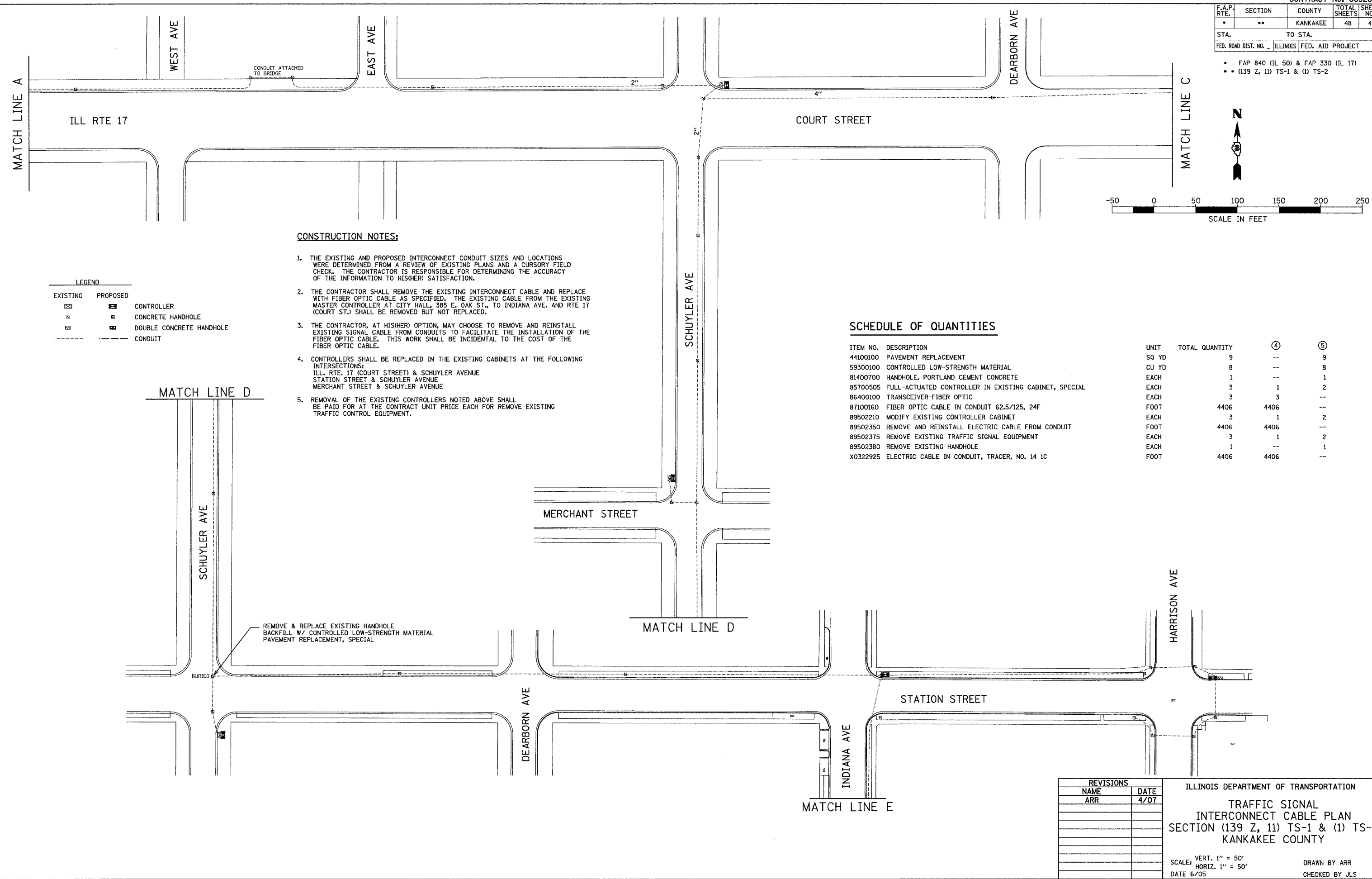
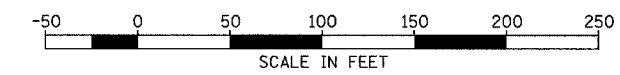
SCALE: VERT. 1" = 50'
 HORIZ. 1" = 50'
 DATE 6/05

DRAWN BY ARR
 CHECKED BY JLS

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|----------|--------------|-----------|
| • | ** | KANKAKEE | 48 | 46 |

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

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2



CONSTRUCTION NOTES:

1. THE EXISTING AND PROPOSED INTERCONNECT CONDUIT SIZES AND LOCATIONS WERE DETERMINED FROM A REVIEW OF EXISTING PLANS AND A CURSORY FIELD CHECK. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACCURACY OF THE INFORMATION TO HIS(HER) SATISFACTION.
2. THE CONTRACTOR SHALL REMOVE THE EXISTING INTERCONNECT CABLE AND REPLACE WITH FIBER OPTIC CABLE AS SPECIFIED. THE EXISTING CABLE FROM THE EXISTING MASTER CONTROLLER AT CITY HALL, 385 E. OAK ST., TO INDIANA AVE. AND RTE 17 (COURT ST.) SHALL BE REMOVED BUT NOT REPLACED.
3. THE CONTRACTOR, AT HIS(HER) OPTION, MAY CHOOSE TO REMOVE AND REINSTALL EXISTING SIGNAL CABLE FROM CONDUITS TO FACILITATE THE INSTALLATION OF THE FIBER OPTIC CABLE. THIS WORK SHALL BE INCIDENTAL TO THE COST OF THE FIBER OPTIC CABLE.
4. CONTROLLERS SHALL BE REPLACED IN THE EXISTING CABINETS AT THE FOLLOWING INTERSECTIONS:
ILL. RTE. 17 (COURT STREET) & SCHUYLER AVENUE
STATION STREET & SCHUYLER AVENUE
MERCHANT STREET & SCHUYLER AVENUE
5. REMOVAL OF THE EXISTING CONTROLLERS NOTED ABOVE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR REMOVE EXISTING TRAFFIC CONTROL EQUIPMENT.

LEGEND

| EXISTING | PROPOSED | |
|----------|----------|--------------------------|
| | | CONTROLLER |
| | | CONCRETE HANDHOLE |
| | | DOUBLE CONCRETE HANDHOLE |
| | | CONDUIT |

SCHEDULE OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | (4) | (5) |
|----------|---|-------|----------------|------|-----|
| 44100100 | PAVEMENT REPLACEMENT | SQ YD | 9 | -- | 9 |
| 59300100 | CONTROLLED LOW-STRENGTH MATERIAL | CU YD | 8 | -- | 8 |
| 81400700 | HANDHOLE, PORTLAND CEMENT CONCRETE | EACH | 1 | -- | 1 |
| 85700505 | FULL-ACTUATED CONTROLLER IN EXISTING CABINET, SPECIAL | EACH | 3 | 1 | 2 |
| 86400100 | TRANSCIEVER-FIBER OPTIC | EACH | 3 | 3 | -- |
| 87100160 | FIBER OPTIC CABLE IN CONDUIT 62.5/125, 24F | FOOT | 4406 | 4406 | -- |
| 89502210 | MODIFY EXISTING CONTROLLER CABINET | EACH | 3 | 1 | 2 |
| 89502350 | REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT | FOOT | 4406 | 4406 | -- |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 3 | 1 | 2 |
| 89502380 | REMOVE EXISTING HANDHOLE | EACH | 1 | -- | 1 |
| X0322925 | ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C | FOOT | 4406 | 4406 | -- |

PLOT DATE = 4/07
 FILE NAME = INTERCONNECT.DGN
 PLOT SCALE = 1" = 50'
 USER NAME = ARR

REVISIONS

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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL INTERCONNECT CABLE PLAN
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 50'
 HORIZ. 1" = 50'

DATE 6/05

DRAWN BY ARR
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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|----------|--------------|-----------|
| * | ** | KANKAKEE | 48 | 47 |

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

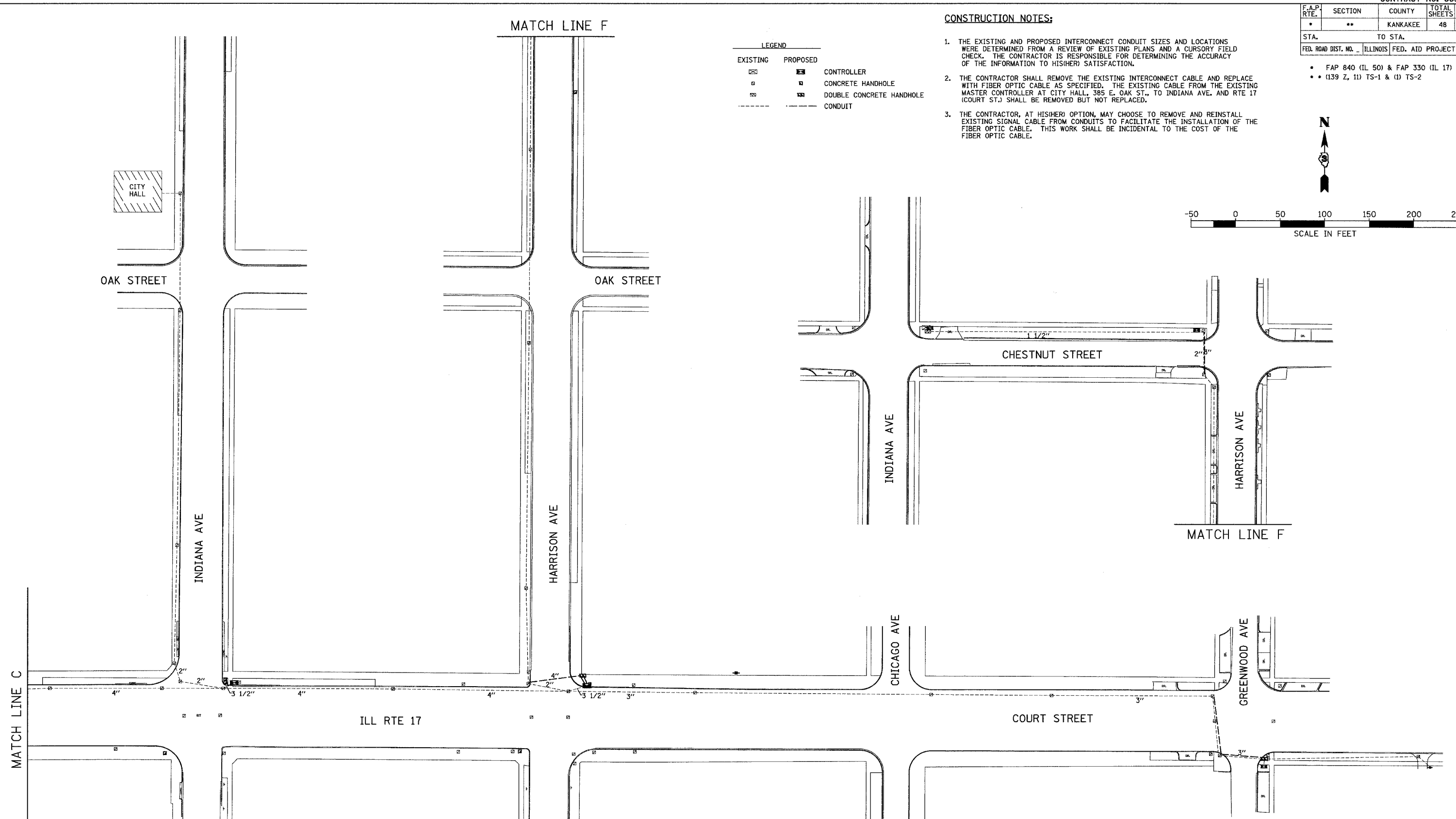
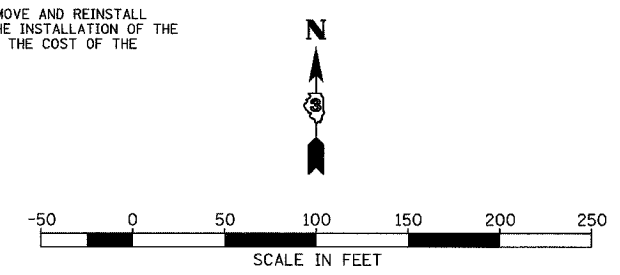
- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

CONSTRUCTION NOTES:

- THE EXISTING AND PROPOSED INTERCONNECT CONDUIT SIZES AND LOCATIONS WERE DETERMINED FROM A REVIEW OF EXISTING PLANS AND A CURSORY FIELD CHECK. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACCURACY OF THE INFORMATION TO HIS(HER) SATISFACTION.
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- THE CONTRACTOR, AT HIS(HER) OPTION, MAY CHOOSE TO REMOVE AND REINSTALL EXISTING SIGNAL CABLE FROM CONDUITS TO FACILITATE THE INSTALLATION OF THE FIBER OPTIC CABLE. THIS WORK SHALL BE INCIDENTAL TO THE COST OF THE FIBER OPTIC CABLE.

LEGEND

| EXISTING | PROPOSED | |
|----------|----------|--------------------------|
| ☒ | ☒ | CONTROLLER |
| □ | □ | CONCRETE HANDHOLE |
| ▣ | ▣ | DOUBLE CONCRETE HANDHOLE |
| --- | --- | CONDUIT |



SCHEDULE OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ④ |
|----------|--|------|----------------|------|
| 87100160 | FIBER OPTIC CABLE IN CONDUIT 62.5/125, 24F | FOOT | 3867 | 3867 |
| 89502350 | REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT | FOOT | 3709 | 3709 |
| X0322925 | ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C | FOOT | 3867 | 3867 |

REVISIONS

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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL INTERCONNECT CABLE PLAN
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

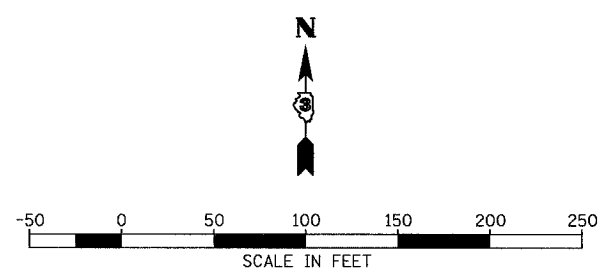
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 DATE 6/05

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 USER NAME = ARR

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| * | ** | KANKAKEE | 48 | 48 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

- FAP 840 (IL 50) & FAP 330 (IL 17)
- (139 Z, 11) TS-1 & (1) TS-2

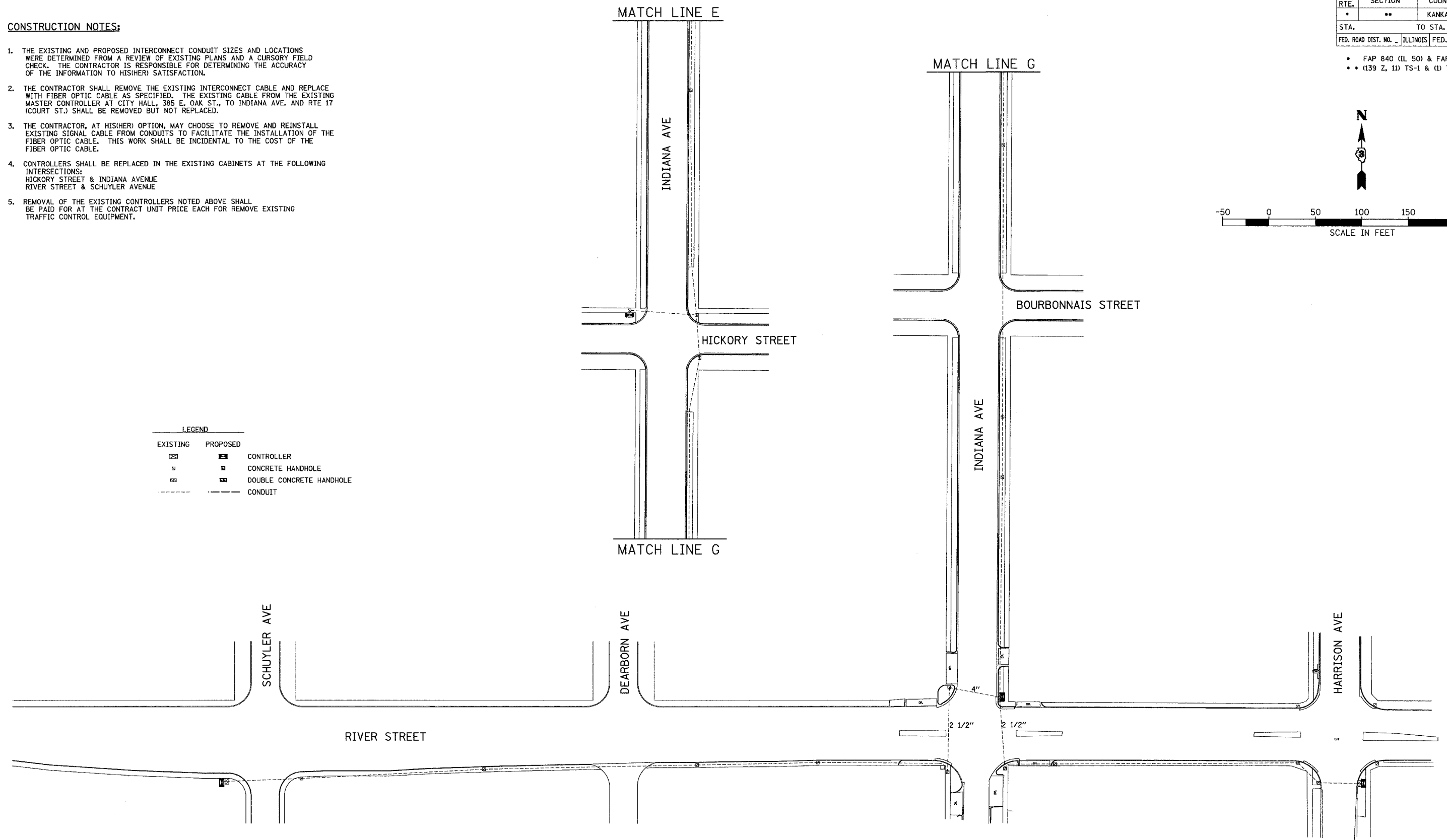


CONSTRUCTION NOTES:

- THE EXISTING AND PROPOSED INTERCONNECT CONDUIT SIZES AND LOCATIONS WERE DETERMINED FROM A REVIEW OF EXISTING PLANS AND A CURSORY FIELD CHECK. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACCURACY OF THE INFORMATION TO HIS(HER) SATISFACTION.
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- THE CONTRACTOR, AT HIS(HER) OPTION, MAY CHOOSE TO REMOVE AND REINSTALL EXISTING SIGNAL CABLE FROM CONDUITS TO FACILITATE THE INSTALLATION OF THE FIBER OPTIC CABLE. THIS WORK SHALL BE INCIDENTAL TO THE COST OF THE FIBER OPTIC CABLE.
- CONTROLLERS SHALL BE REPLACED IN THE EXISTING CABINETS AT THE FOLLOWING INTERSECTIONS:
HICKORY STREET & INDIANA AVENUE
RIVER STREET & SCHUYLER AVENUE
- REMOVAL OF THE EXISTING CONTROLLERS NOTED ABOVE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR REMOVE EXISTING TRAFFIC CONTROL EQUIPMENT.

LEGEND

| EXISTING | PROPOSED | |
|----------|----------|--------------------------|
| | | CONTROLLER |
| | | CONCRETE HANDHOLE |
| | | DOUBLE CONCRETE HANDHOLE |
| | | CONDUIT |



SCHEDULE OF QUANTITIES

| ITEM NO. | DESCRIPTION | UNIT | TOTAL QUANTITY | ④ |
|----------|---|------|----------------|------|
| 85700505 | FULL-ACTUATED CONTROLLER IN EXISTING CABINET, SPECIAL | EACH | 2 | 2 |
| 86400100 | TRANSCIEVER-FIBER OPTIC | EACH | 2 | 2 |
| 87100160 | FIBER OPTIC CABLE IN CONDUIT 62.5/125, 24F | FOOT | 2942 | 2942 |
| 89502210 | MODIFY EXISTING CONTROLLER CABINET | EACH | 2 | 2 |
| 89502350 | REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT | FOOT | 2942 | 2942 |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 2 | 2 |
| X0322925 | ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C | FOOT | 2942 | 2942 |

REVISIONS

| NAME | DATE |
|------|------|
| ARR | 4/07 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC SIGNAL INTERCONNECT CABLE PLAN
 SECTION (139 Z, 11) TS-1 & (1) TS-2
 KANKAKEE COUNTY

SCALE: VERT. 1" = 50'
 HORIZ. 1" = 50'

DATE 6/05

DRAWN BY ARR
 CHECKED BY JLS

PLOT DATE = 4/07
 FILE NAME = INTERCONNECT.DGN
 PLOT SCALE = 1" = 50'
 USER NAME = ARR