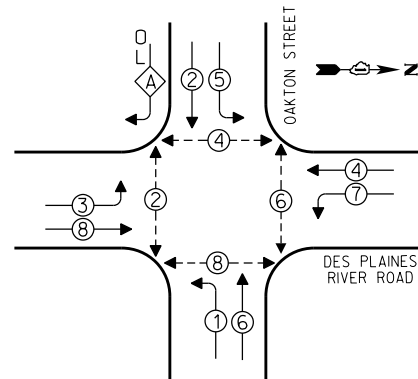


CONTROLLER SEQUENCE



- ① REPLACE 10 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION.
- ④ REPLACE 16 FT. PAINTED POST, RE-USE EXISTING TYPE A CONCRETE FOUNDATION.

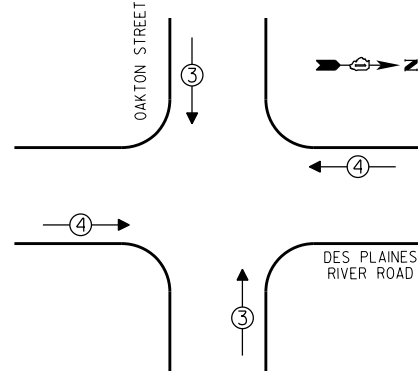
LEGEND

- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- \* NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

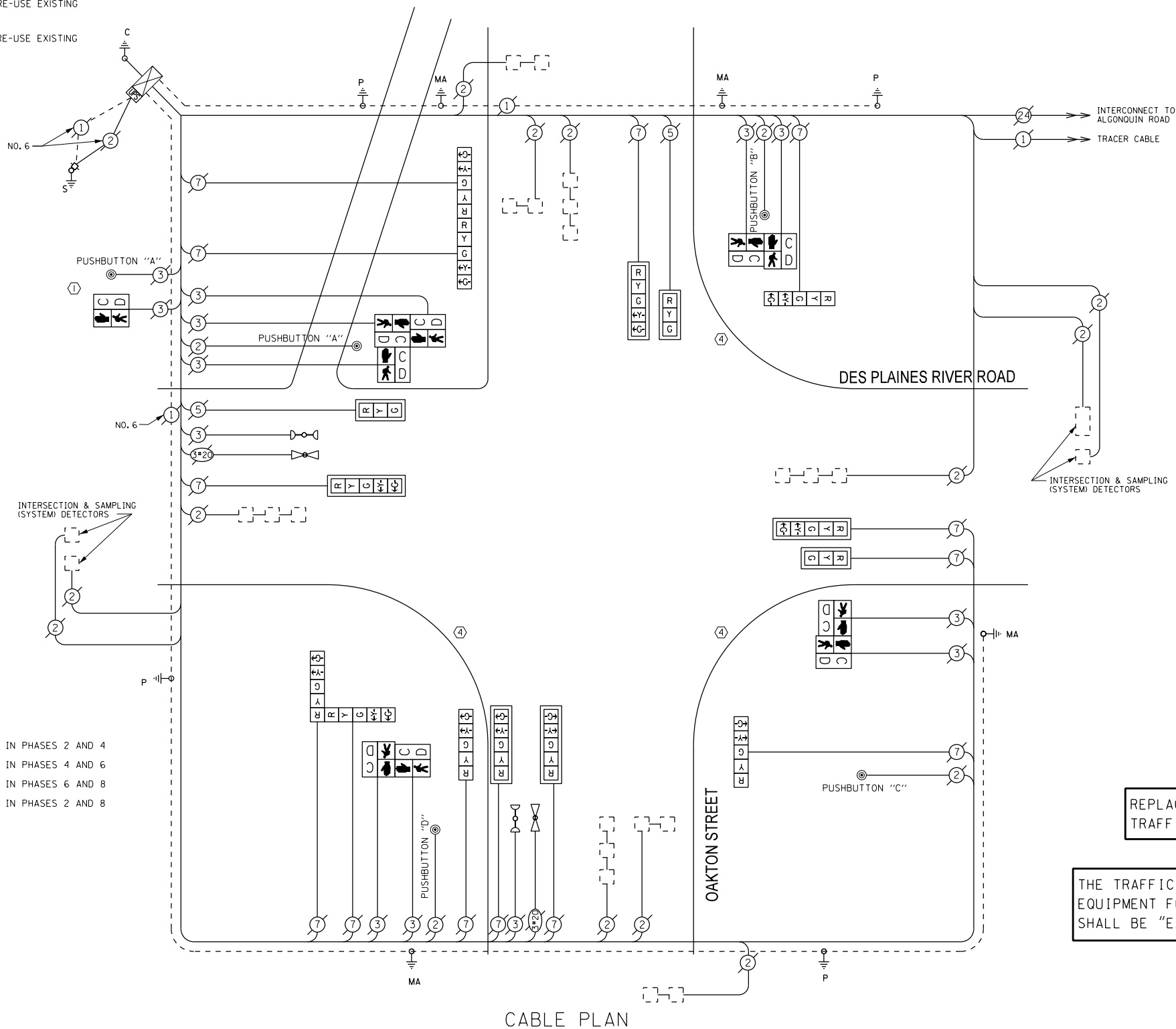
| OVERLAP LETTER | PERMISSIVE PHASE | PROTECTED PHASE |
|----------------|------------------|-----------------|
| A              | = 2              | + 3             |

EMERGENCY VEHICLE PREEMPTION SEQUENCE



| EMERGENCY VEHICLE PREEMPTORS |   |   |
|------------------------------|---|---|
| EMERGENCY VEHICLE PREEMPTOR  | 3 | 4 |
| MOVEMENT                     | ↕ | ↔ |

NOTE:  
 PUSHBUTTON "A" SHALL PLACE A CALL IN PHASES 2 AND 4  
 PUSHBUTTON "B" SHALL PLACE A CALL IN PHASES 4 AND 6  
 PUSHBUTTON "C" SHALL PLACE A CALL IN PHASES 6 AND 8  
 PUSHBUTTON "D" SHALL PLACE A CALL IN PHASES 2 AND 8



CABLE PLAN

SCHEDULE OF QUANTITIES

| QUAN. | UNIT | ITEM  |
|-------|------|---|
| 1     | EACH | MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                       |
| 1     | EACH | TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.                              |
| 3     | EACH | TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.                              |
| 3     | EACH | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED                     |
| 3     | EACH | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED                      |
| 5     | EACH | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED                     |
| 2     | EACH | SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED                      |
| 1     | EACH | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER |
| 3     | EACH | PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER |
| 1     | EACH | PEDESTRIAN SIGNAL HEAD, LED, 3-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER |
| 8     | EACH | TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                              |
| 1     | EACH | MODIFY EXISTING CONTROLLER CABINET  |
| 1     | EACH | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                                  |
| 1     | EACH | UNINTERRUPTIBLE POWER SUPPLY, SPECIAL                                     |
| 5     | EACH | PEDESTRIAN PUSH-BUTTON, NON-LATCHING                                      |

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

| QUANTITY | UNIT | DESCRIPTION                    |
|----------|------|--------------------------------|
| 4        | EACH | TRAFFIC SIGNAL POST            |
| 3        | EACH | SIGNAL HEAD, 1-FACE, 3-SECTION |
| 8        | EACH | SIGNAL HEAD, 1-FACE, 5-SECTION |
| 2        | EACH | SIGNAL HEAD, 2-FACE, 5-SECTION |
| 3        | EACH | PEDESTRIAN SIGNAL HEAD, 1-FACE |
| 2        | EACH | PEDESTRIAN SIGNAL HEAD, 2-FACE |
| 1        | EACH | PEDESTRIAN SIGNAL HEAD, 3-FACE |
| 5        | EACH | PEDESTRIAN PUSHBUTTON          |
| 8        | EACH | TRAFFIC SIGNAL BACKPLATE       |

REPLACE ALL EXISTING TRAFFIC SIGNAL HEADS

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE".

| I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS |              |         |            | TOTAL WATTAGE  |
|--|--------------|---------|------------|----------------|
| TYPE   | NO. OF LAMPS | WATTAGE | OPERATIONS |                |
| SIGNAL (RED)   | 14           | 17      | 0.50       | 119.00         |
| (YELLOW)   | 14           | 25      | 0.25       | 87.50          |
| (GREEN)  | 14           | 15      | 0.25       | 52.50          |
| ARROW  | 24           | 12      | 0.10       | 28.80          |
| PED. SIGNAL  | 10           | 25      | 1.00       | 250.00         |
| CONTROLLER   | 1            | 100     | 1.00       | 100.00         |
| ILLUM. SIGN  |              | 25      | 0.05       |                |
| LUMINAIRE  |              | 250     | 0.50       |                |
| VIDEO SYSTEM   |              | 150     | 1.00       |                |
| FLASHER  |              |         | 0.50       |                |
| ENERGY COSTS TO:   |              |         |            | TOTAL = 637.80 |

VILLAGE OF DES PLAINES  
 1420 MINER STREET  
 DES PLAINES, ILLINOIS 60016

ENERGY SUPPLY - CONTACT: DAVE SCHACHT  
 PHONE: (630) 437-2129  
 COMPANY:



|                 |           |
|-----------------|-----------|
| DESIGNED - JAM  | REVISED - |
| DRAWN - JAM     | REVISED - |
| CHECKED - LMM   | REVISED - |
| DATE - 10-14-13 | REVISED - |

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE, DES PLAINES RIVER ROAD AT OAKTON STREET

SCALE: NONE SHEET OF SHEETS STA. TO STA.

| F.A. RTE.                 | SECTION    | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------|--------------|-----------|
| VAR                       | 2013-054TS | COOK   | 99           | 52        |
| CONTRACT NO. 60X15        |            |        |              |           |
| ILLINOIS FED. AID PROJECT |            |        |              |           |