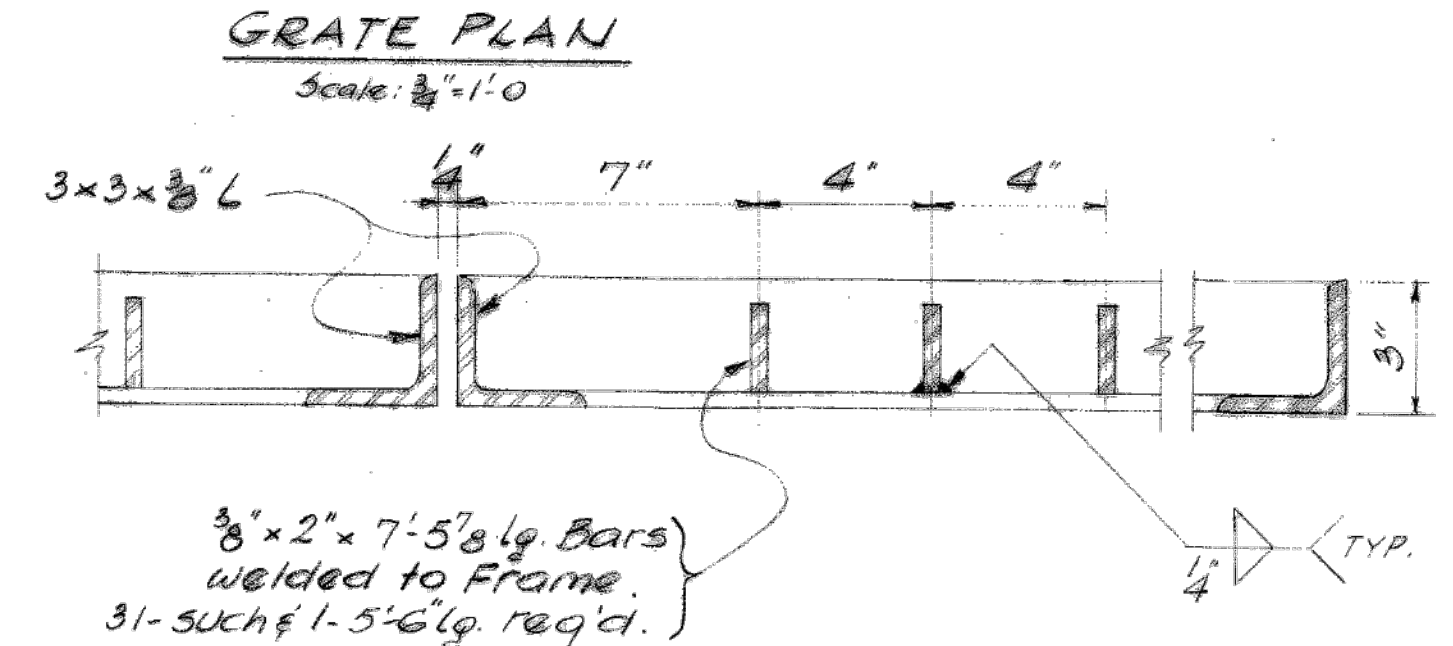
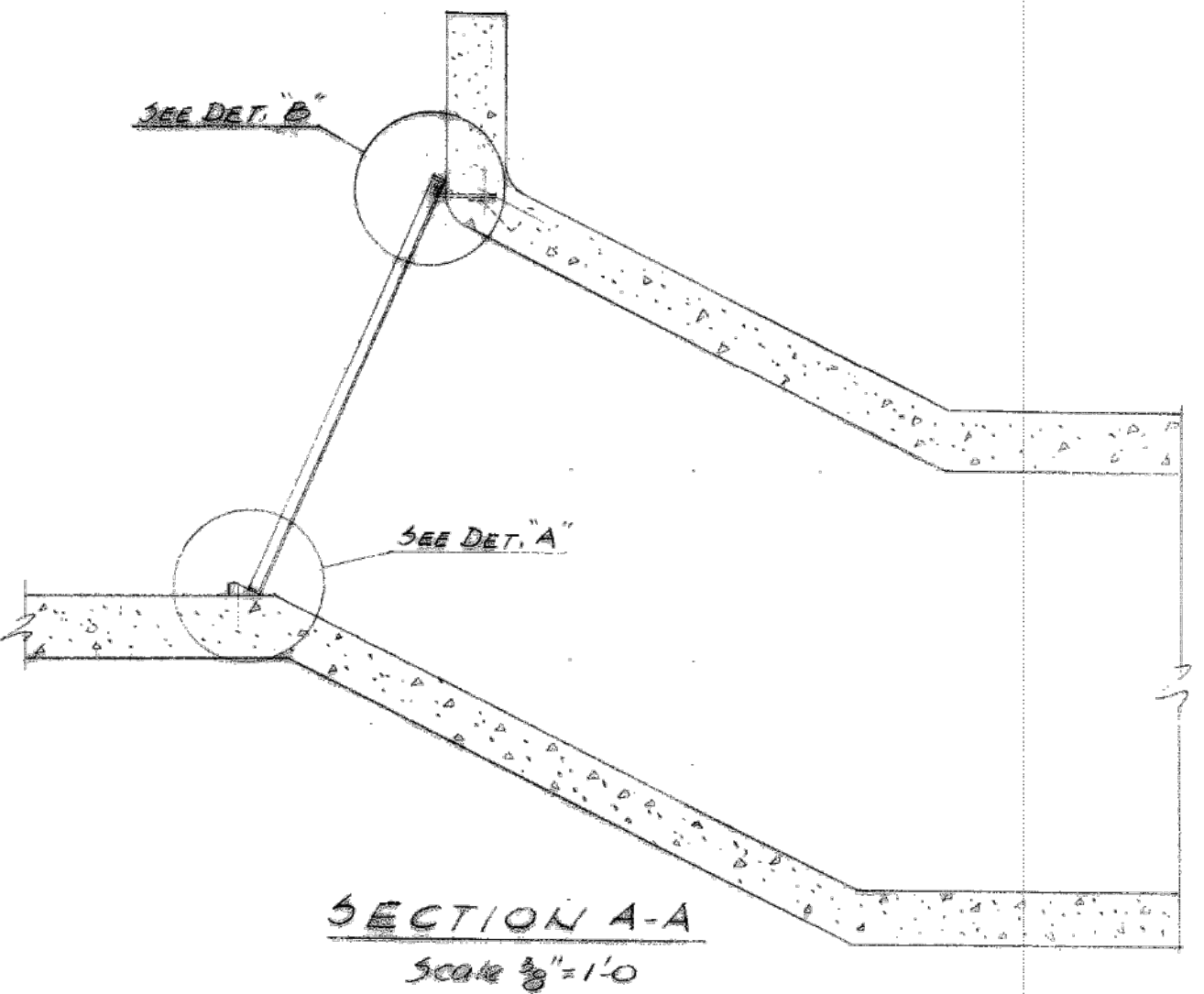
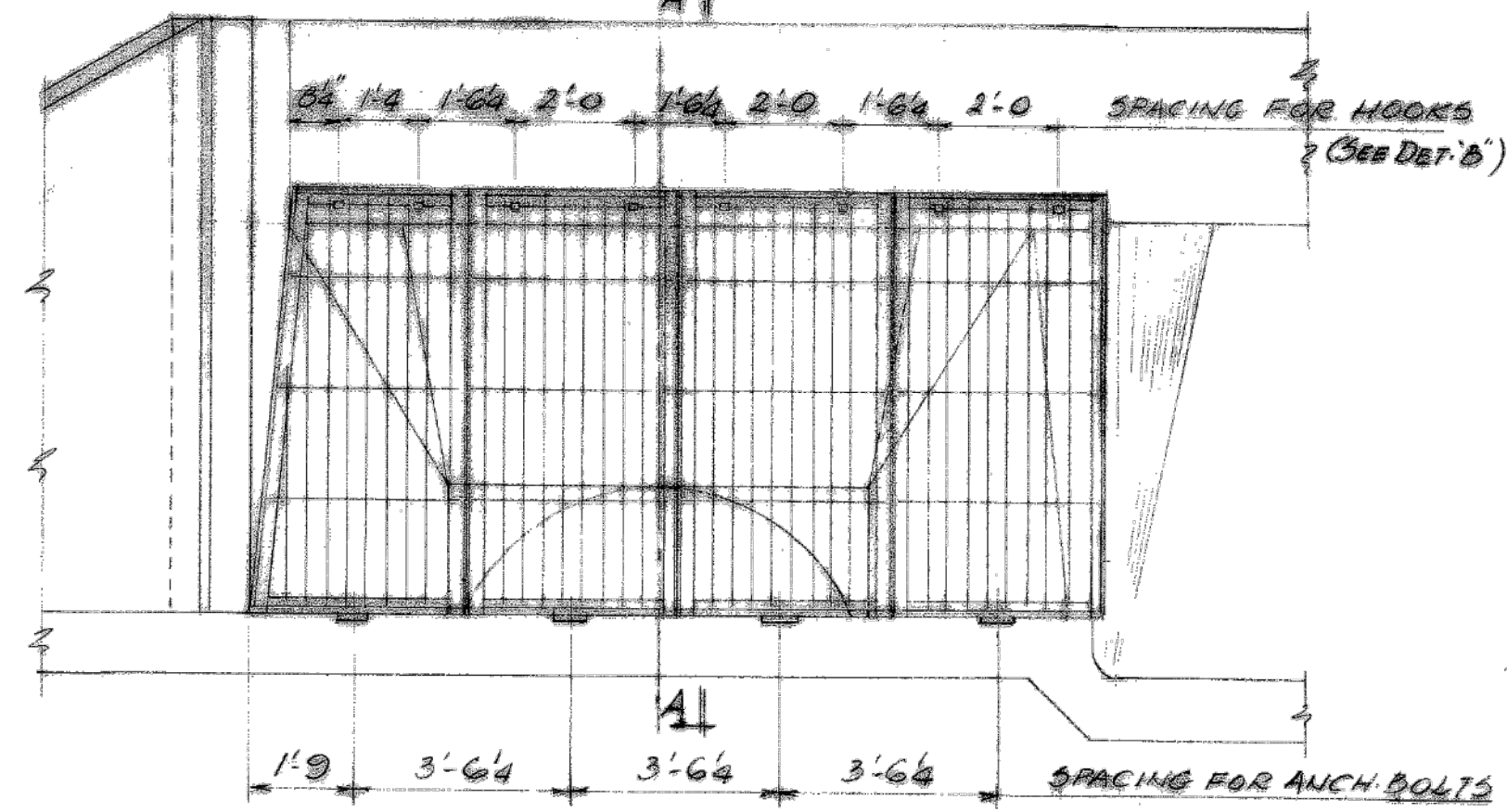
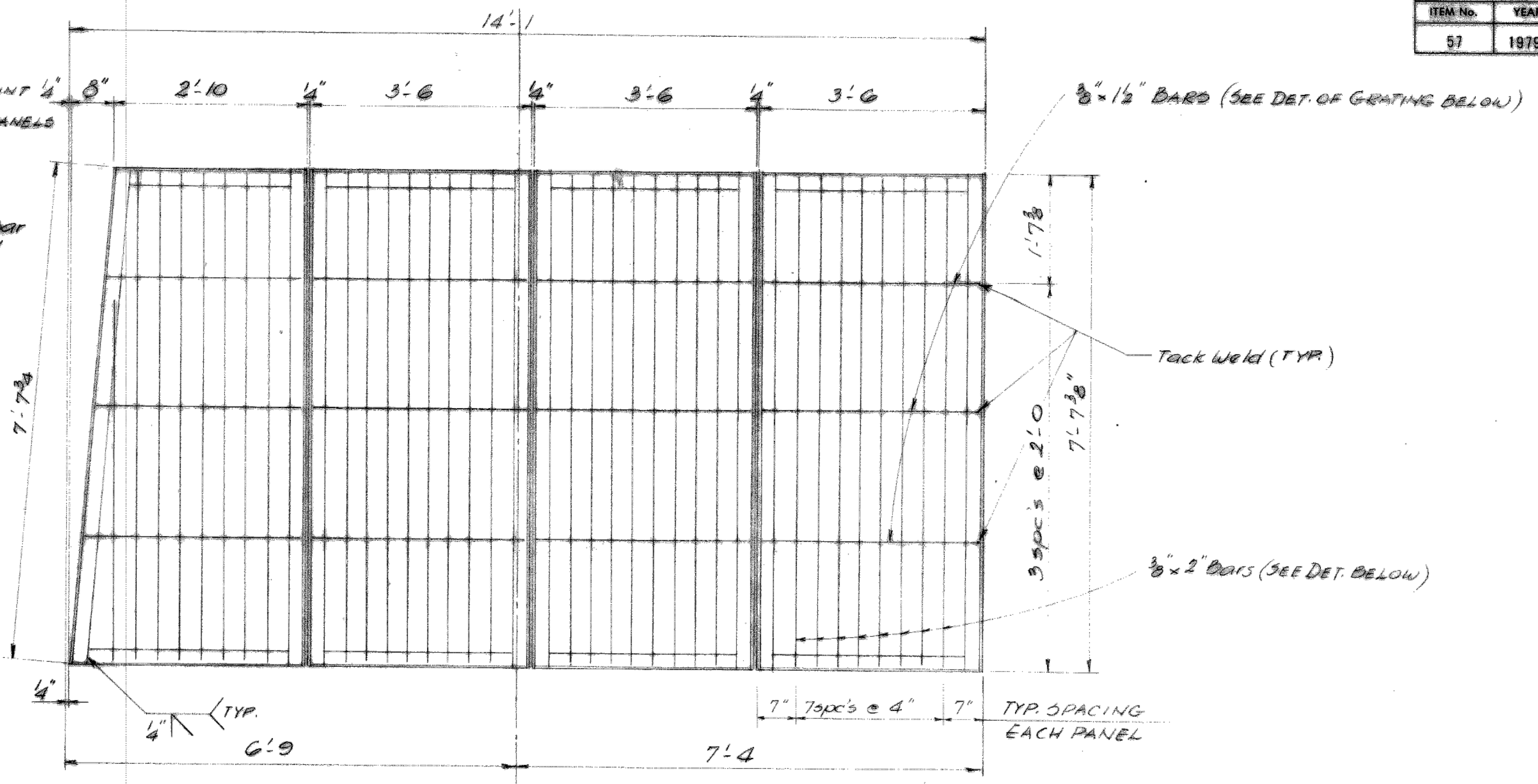
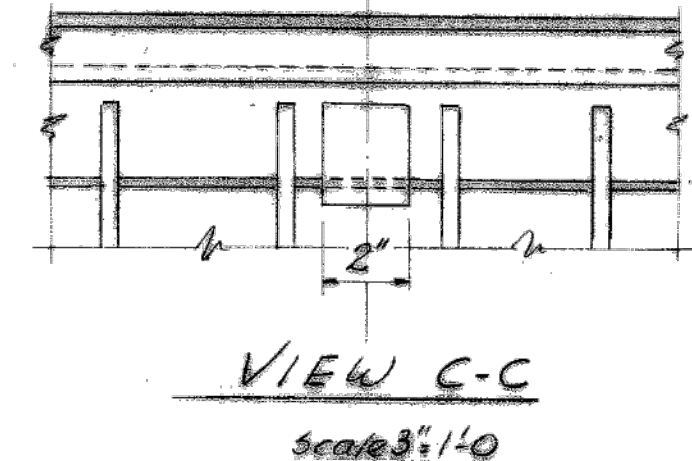
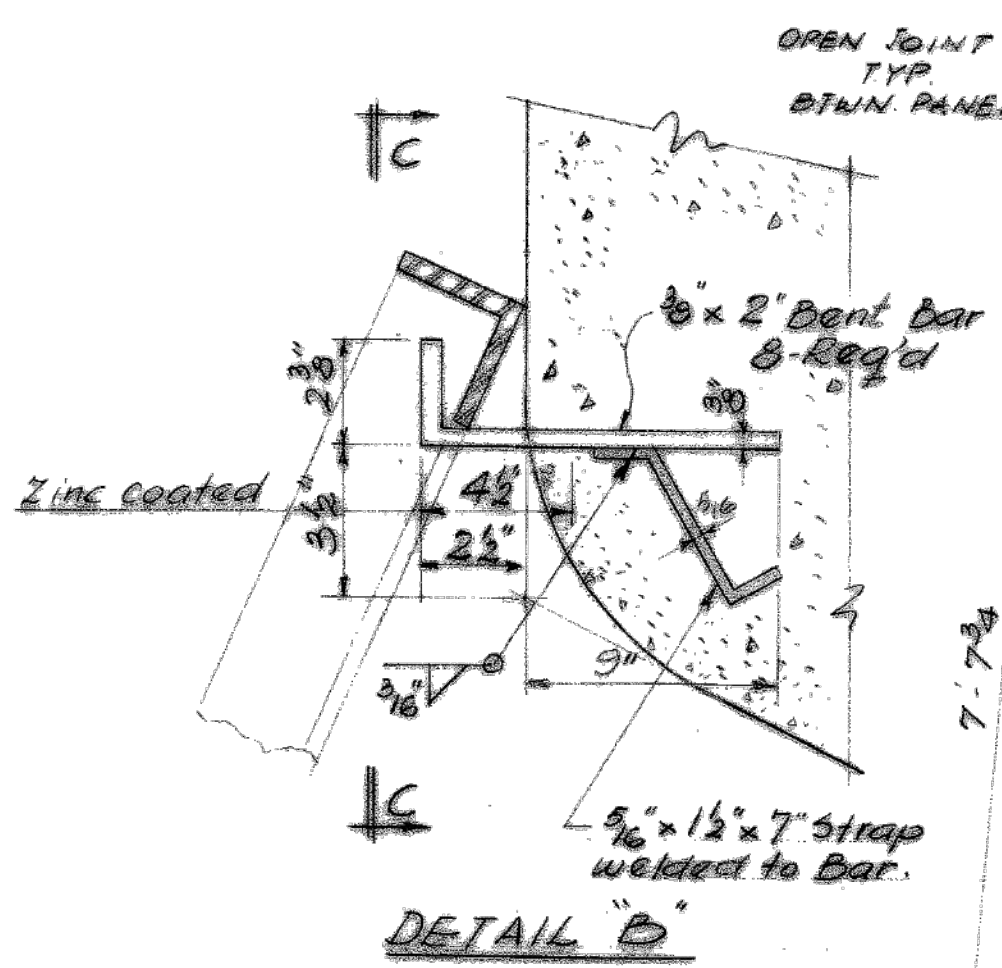
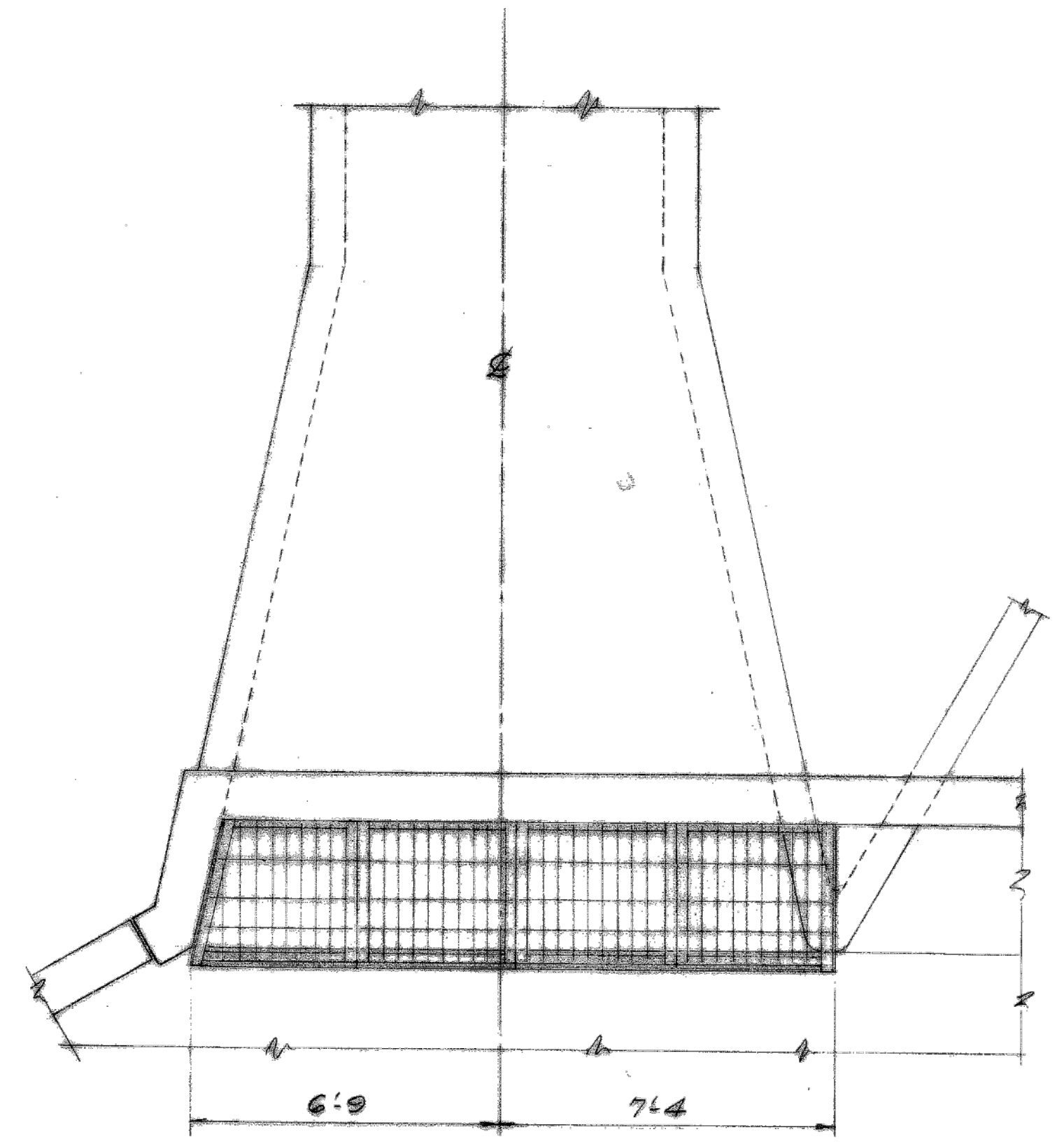


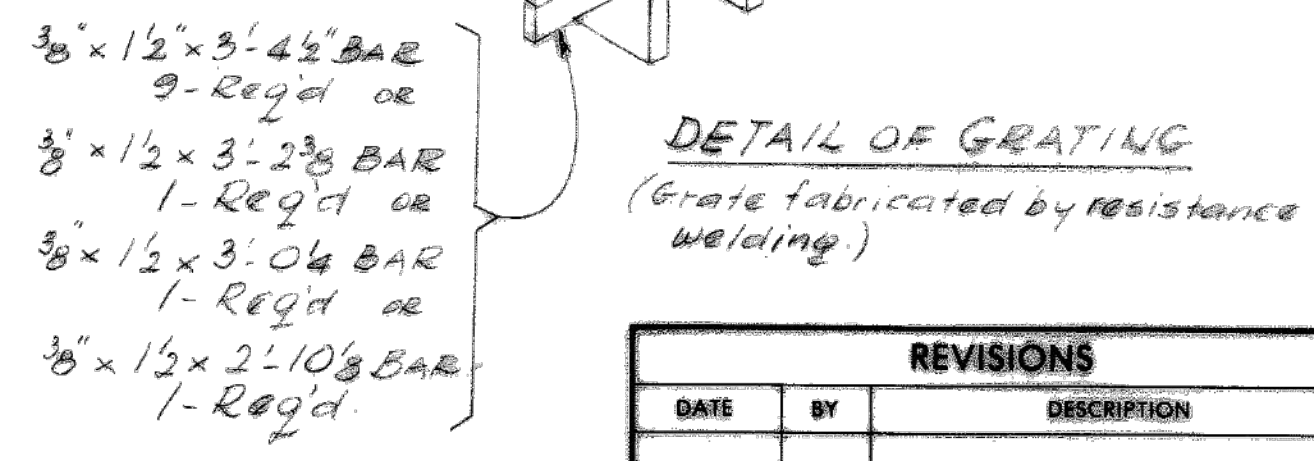
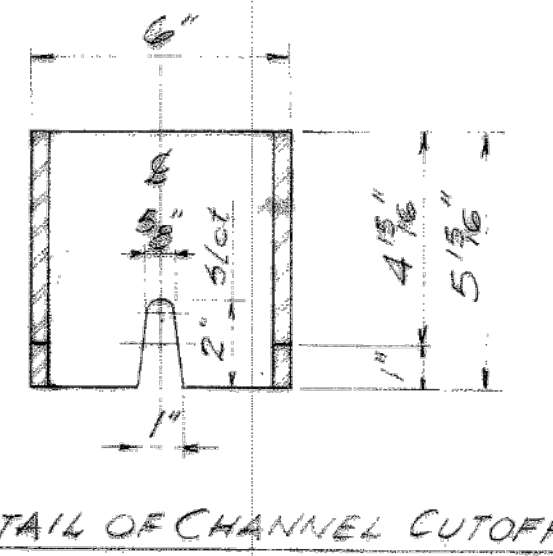
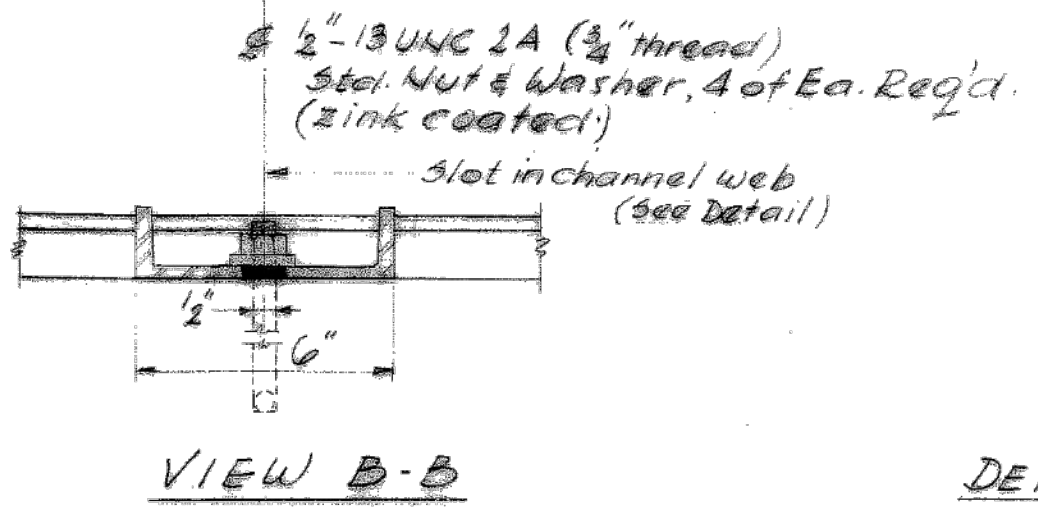
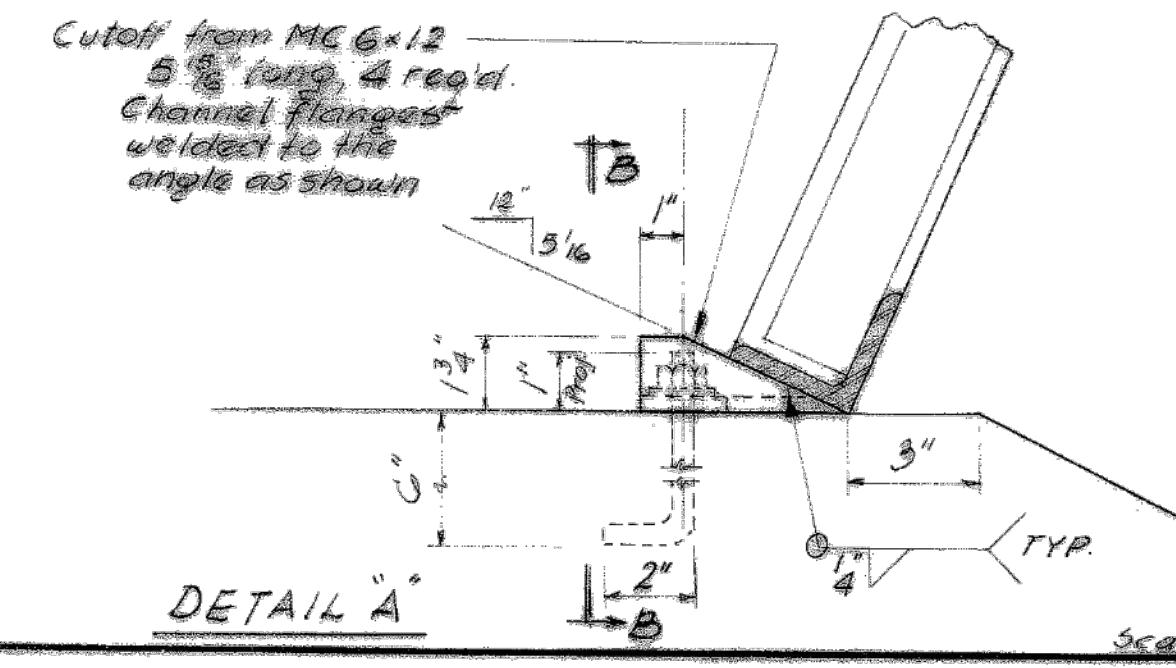
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| COUNTY PROGRAM |      | SHEET |
|----------------|------|-------|
| ITEM No.       | YEAR | No.   |
| 57             | 1979 | 15    |



**NOTE:**  
 The material for steel grate shall conform to Article 710.04 of the Standard Specifications and shall be galvanized to A.A.S.H.T.O. designation M-111. Fabrication and welding of grate shall be done before galvanizing. The slots in the channels shall be made before galvanizing.  
 All welding to be continuous unless otherwise noted. All welding to be done in accordance with Art. 507.04 (s) of current Standard Specifications for Road and Bridge Construction, State of Illinois. Cost to be incidental to the cost of Grating.  
 Hardware for attaching the grating to the wingwall shall be zinc coated in accordance with A.A.S.H.T.O. M-232 or A.S.T.M. A-164, Type GG. Place hardware in forms before casting wall concrete. Cost to be incidental to the cost of Class X Concrete.  
 The unit price bid per square foot for GRATING shall include the cost of furnishing and erecting including all labor, material, hardware fabrication and galvanizing of the grate as shown herein.

|                         |             |
|-------------------------|-------------|
| <b>BILL OF MATERIAL</b> |             |
| Grating                 | 105 Sq. Ft. |



| REVISIONS |    |             |
|-----------|----|-------------|
| DATE      | BY | DESCRIPTION |
|           |    |             |
|           |    |             |
|           |    |             |
|           |    |             |

|   |               |       |  |           |             |
|---|---------------|-------|--|-----------|-------------|
| <b>DEPARTMENT OF HIGHWAYS</b>                   |               |       |  |           |             |
| COOK COUNTY, ILLINOIS                           |               |       | RICHARD H. GOLTERMAN<br>SUPERINTENDENT OF HIGHWAYS |           |             |
| SLOPE TAPERED INLET GRATING DETAILS             |               |       |  |           |             |
| 137TH STREET AT MIDLOTHIAN CREEK                |               |       |  |           |             |
| KEDZIE AVENUE - 137TH STREET TO CAL-SAG CHANNEL |               |       |  |           |             |
| COMPUTED  | D. W. P. S.   |       | SUBMITTED  |           |             |
| CHECKED   |               |       |  |           |             |
| DRAWN   |               |       |  |           |             |
| CHECKED   |               |       |  |           |             |
| EXAMINED  | July 25, 1979 | Route | SECTION NUMBER                                     | Sheet No. | Drawing No. |
|   |               | 055   | 055-1215.01  | 15        | 27          |

**REFERENCE ONLY - NOT TO SCALE**

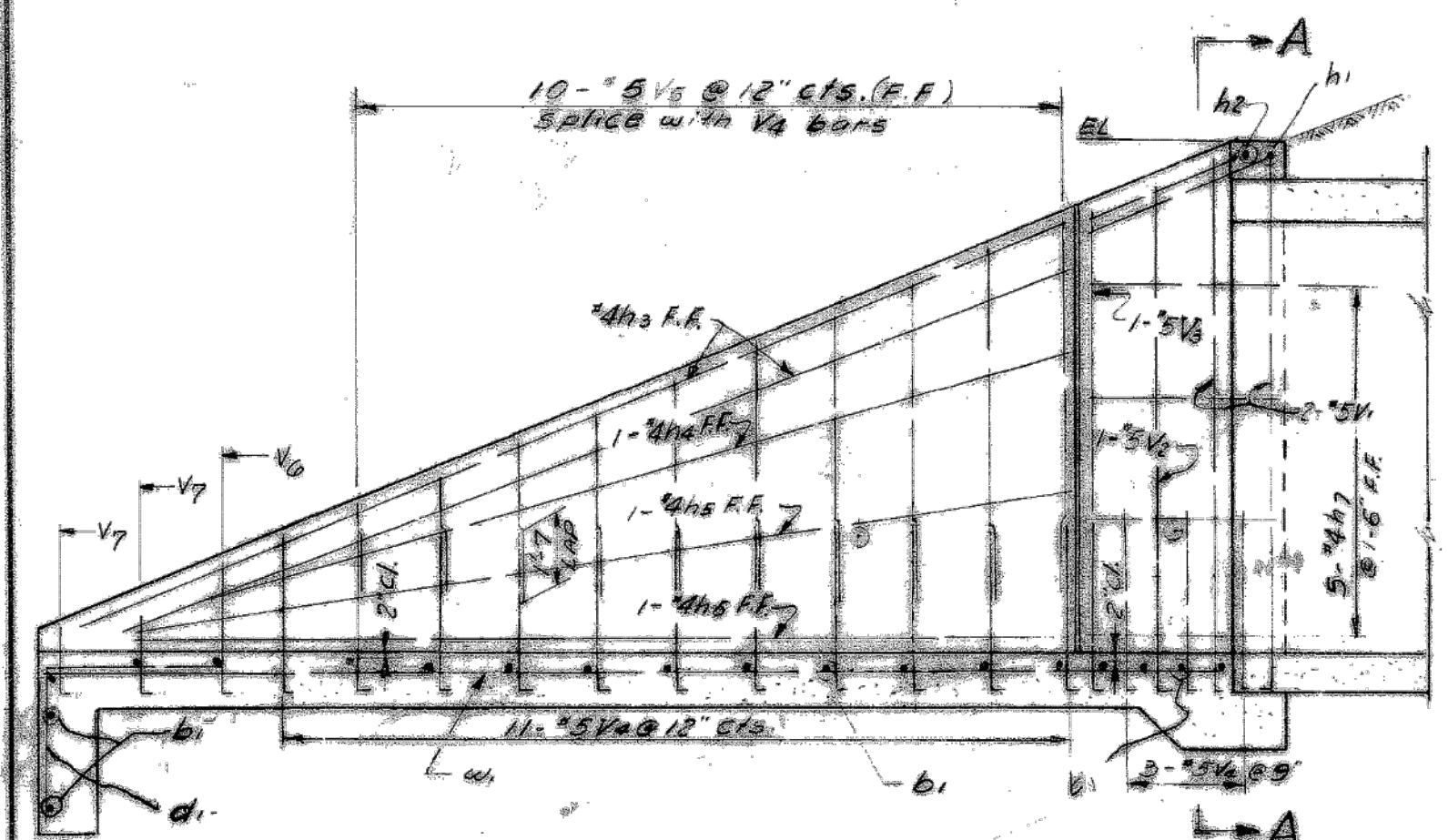
This Reference Drawing is based upon archival data in possession of MWRDCC. It is presented solely for information purposes. Reference drawing is not to be modified or change. MWRDCC makes no guarantee as to the accuracy of the information, nor is it to be used to execute contract work.

**CONTRACT 14-253-5FR**  
 FLOOD CONTROL PROJECT ON  
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)  
 LITTLE CALUMET RIVER WATERSHED  
 KEDZIE AVE MAIN DRAIN  
 SHEET 15

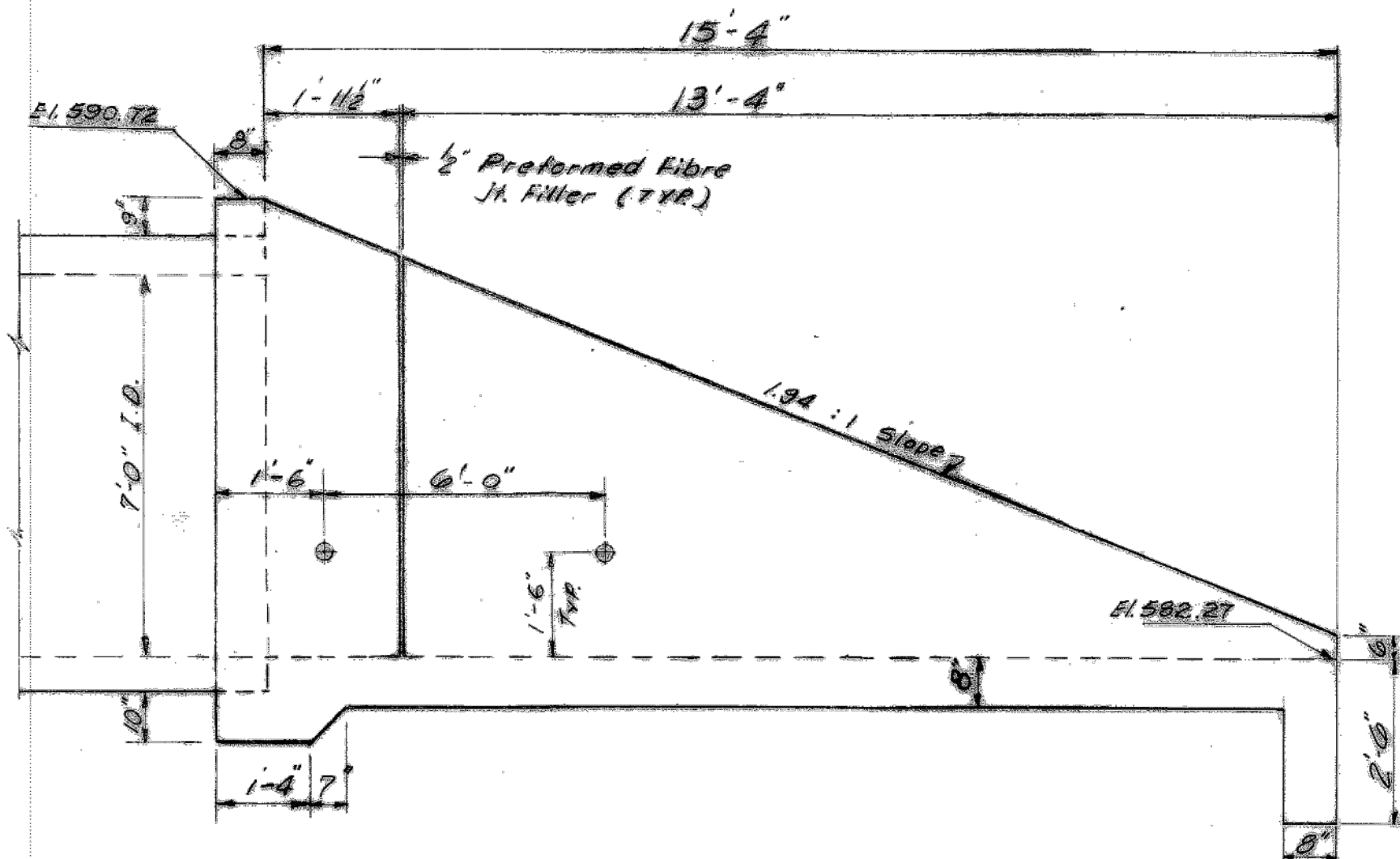
Sheet Number:  
**R-008**



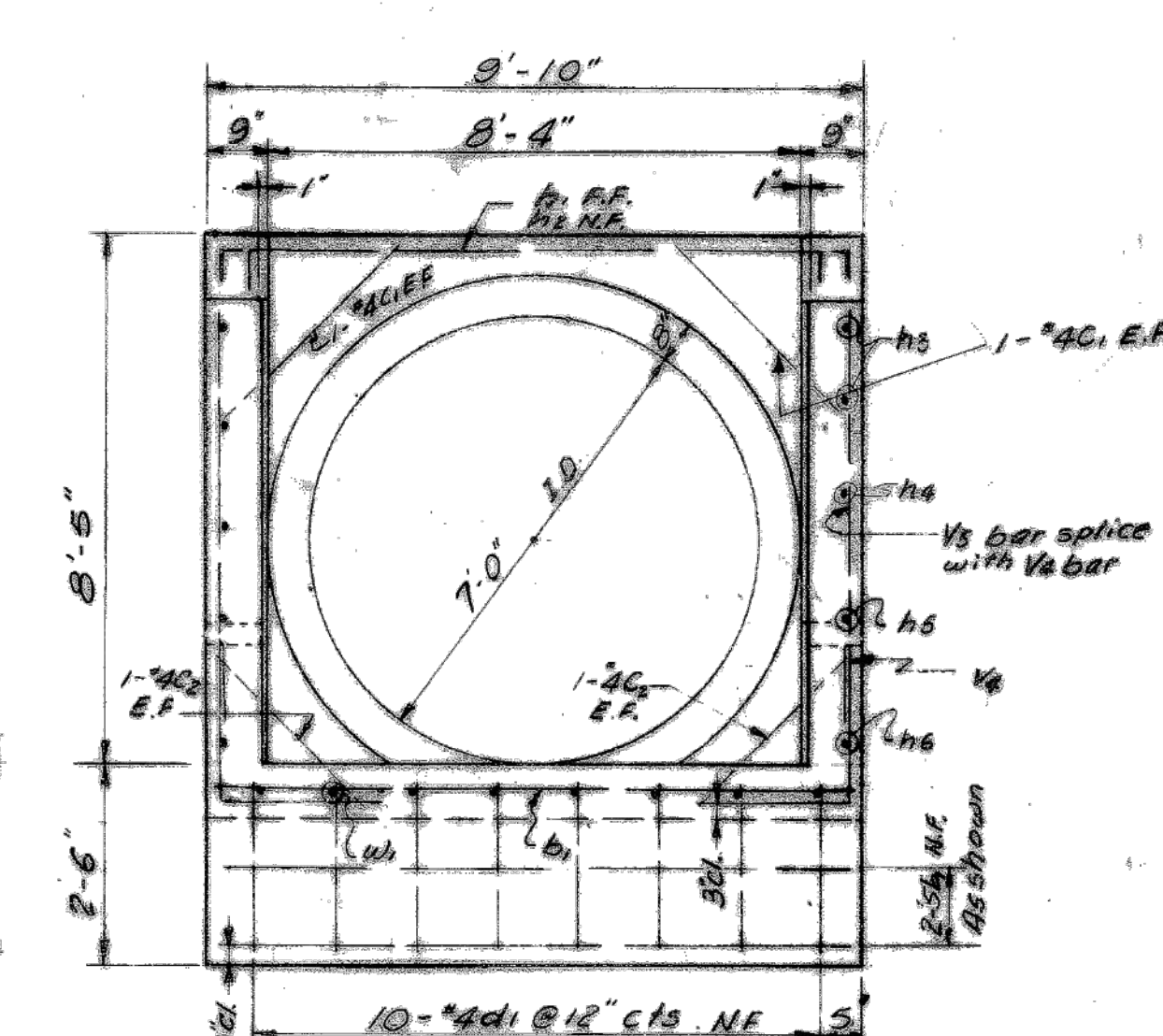
| COUNTY PROGRAM |      | SHEET |
|----------------|------|-------|
| ITEM No.       | YEAR | No.   |
| 57             | 1978 | 17    |



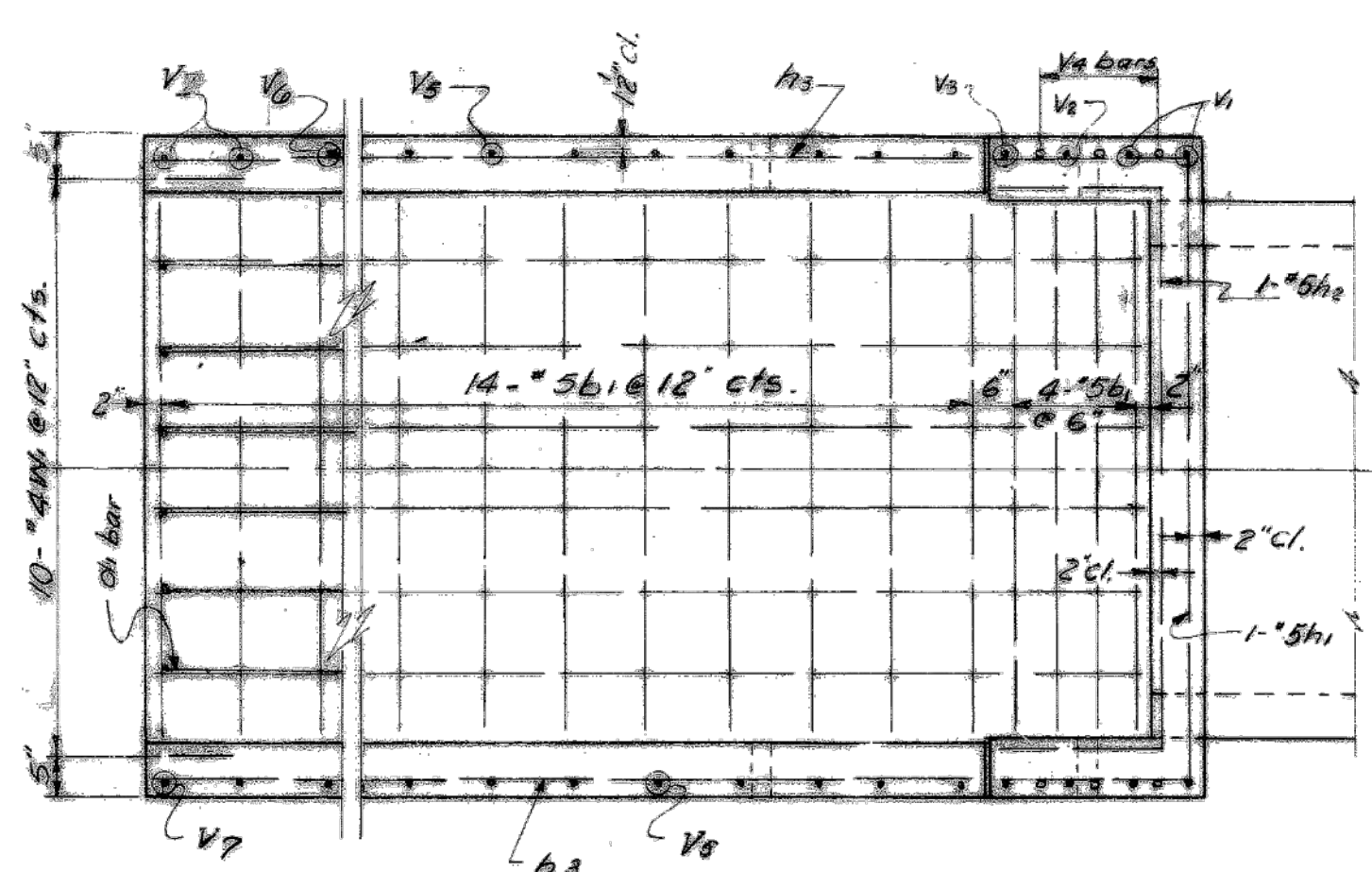
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Scale: N.T.S.



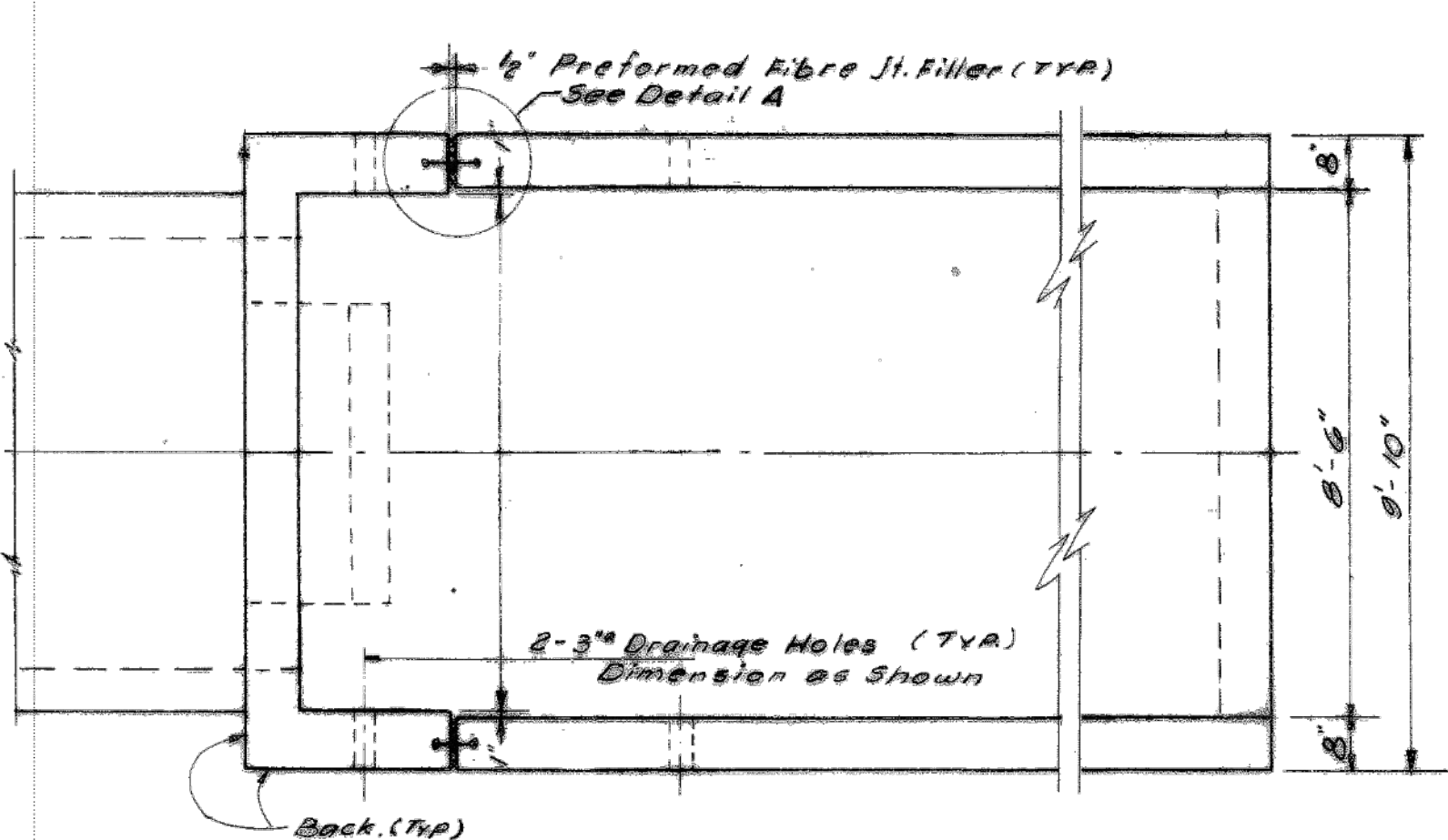
**ELEVATION**  
Scale: N.T.S.



**END ELEVATION**  
Scale: N.T.S.



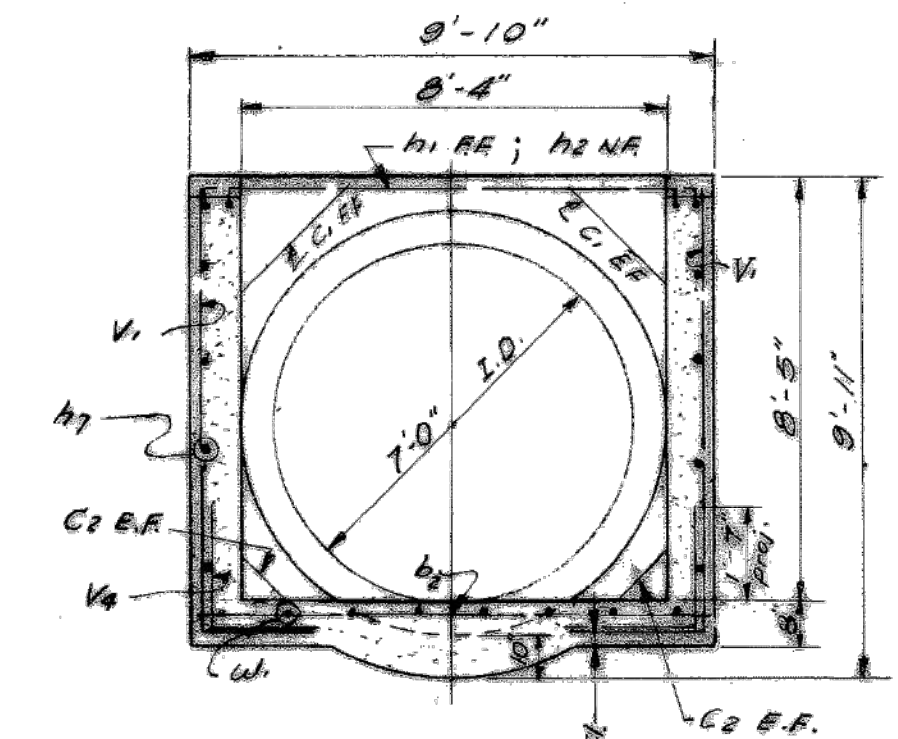
**Showing Reinforcement**



**Showing Outlines**

| BAR SCHEDULE |    |      |        |             |    |       |       |                     |
|--------------|----|------|--------|-------------|----|-------|-------|---------------------|
| MARK         | NO | SIZE | LENGTH | DESCRIPTION | B  | C     | D     | REMARKS             |
| b.           | 20 | 5    | 9'-6"  |             |    |       |       |                     |
| c.           | 4  | 4    | 4'-3"  |             |    |       |       |                     |
| c.           | 4  | 4    | 3'-0"  |             |    |       |       |                     |
| d.           | 10 | 4    | 4'-3"  |             | 17 | 2'-2" | 2'-4" | SEE DETAIL          |
| h.           | 1  | 5    | 14'-9" |             | 10 | 8'-5" | 2'-8" | 2'-8"               |
| h.           | 1  | 5    | 13'-2" |             | 10 | 8'-8" | 2'-3" | 2'-8"               |
| h.           | 4  | 4    | 12'-0" |             |    |       |       |                     |
| h.           | 2  | 4    | 12'-2" |             |    |       |       |                     |
| h.           | 2  | 4    | 12'-2" |             |    |       |       |                     |
| h.           | 2  | 4    | 12'-0" |             |    |       |       |                     |
| h.           | 10 | 4    | 2'-4"  |             |    |       |       |                     |
| v.           | 4  | 5    | 10'-9" |             | 17 | 8'-9" | 2'-0" | SEE DETAIL          |
| v.           | 2  | 5    | 10'-2" |             | 17 | 8'-2" | 2'-0" | SEE DETAIL          |
| v.           | 2  | 5    | 9'-7"  |             | 17 | 7'-7" | 2'-0" | SEE DETAIL          |
| v.           | 2  | 5    | 9'-0"  |             | 17 | 2'-0" | 2'-0" | SEE DETAIL          |
| v.           | 10 | 5    | 9'-5"  |             |    |       |       | SEE CUTTING DIAGRAM |
| v.           | 2  | 5    | 3'-3"  |             | 17 | 1'-9" | 2'-0" | SEE DETAIL          |
| v.           | 2  | 5    | 3'-2"  |             | 17 | 1'-8" | 2'-0" | SEE DETAIL          |
| w.           | 10 | 4    | 12'-0" |             |    |       |       |                     |

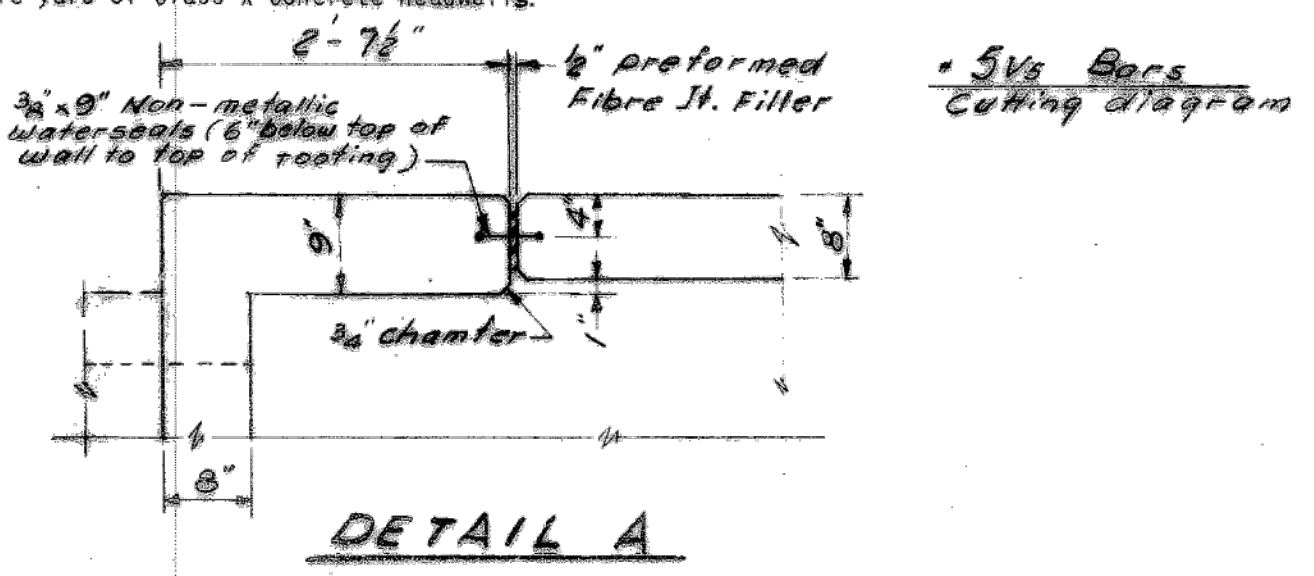
| BILL OF MATERIAL           |            |
|----------------------------|------------|
| Class X Concrete Headwalls | 8.8 Cu.Yd. |
| Reinforcement Bars         | 770 Lb.    |



**SECTION A-A**  
Scale: N.T.S.

- NOTES:**
- Class X Concrete shall be used throughout.
  - The cost of Non-Metallic Waterseals, and Preformed Fibre Joint Filler shall not be paid for separately, but shall be included in the contract price per cubic yard of Class X Concrete. These items shall not become bent, torn, or distorted during construction. The Contractor's method of supporting, bracing, protecting the waterseals and preformed fibre joint filler shall be approved by the Engineer. The waterseals shall be spliced as recommended by the manufacturer.
  - All Reinforcement Bars shall be lapped 24 diameters unless otherwise shown. Reinforcement shall comply with A.A.S.H.T.O. M31 or M59, Grade 40.
  - All Reinforcing Steel shall be wired securely in place before concrete is poured.
  - See Plan and Profile sheets for Location and Elevations of ditch and structure.
  - This work shall comply with Sections 502, 503, 507, 509 and 512 of the Standard Specifications for Road and Bridge Construction adopted July 1, 1976.
  - Reinforcing Bars shall have a clearance of 1/2 in. except as noted.

- The cost of construction of the Headwalls shall include all materials and labor including excavation, backfill and shall be paid for at the contract unit price per cubic yard for Class X Concrete Headwalls.
- All backfilling operations shall conform to Article 603.08 of the Standard Specifications.
- The surfaces to be waterproofed are the backs of the headwalls.
- Drainage holes in walls shall be built according to Article 603.09 of the Standard Specifications. Cost of Drainholes shall be included in the price per cubic yard of Class X Concrete Headwalls.



**DETAIL A**

| REVISIONS |    |             |
|-----------|----|-------------|
| DATE      | BY | DESCRIPTION |
|           |    |             |
|           |    |             |
|           |    |             |

**DEPARTMENT OF HIGHWAYS**  
 COOK COUNTY, ILLINOIS

GEORGE W. DUNNE  
PRESIDENT

RICHARD H. SOEFERMAN  
SUPERINTENDENT

**HEADWALL DETAILS**  
 KEDZIE AVENUE AT CAL-SAG CHANNEL  
 KEDZIE AVENUE - 137TH STREET TO CAL-SAG CHANNEL

COMPUTED: D.W.M.T.E.  
 CHECKED: J.S.  
 DRAWN: M.S.  
 CHECKED: S.C.

EXAMINED: July 14, 1978  
 M. J. ...  
 CHIEF ENGINEER OF DESIGN

DATE: 053 053-12/3/01  
 SHEET: 17 OF 27  
 DRAWING NO: PRI167

BUILT AS SHOWN  
 EXCEPT AS NOTED

Date \_\_\_\_\_ Contractor \_\_\_\_\_  
 Date \_\_\_\_\_ MWRD Resident Engineer \_\_\_\_\_

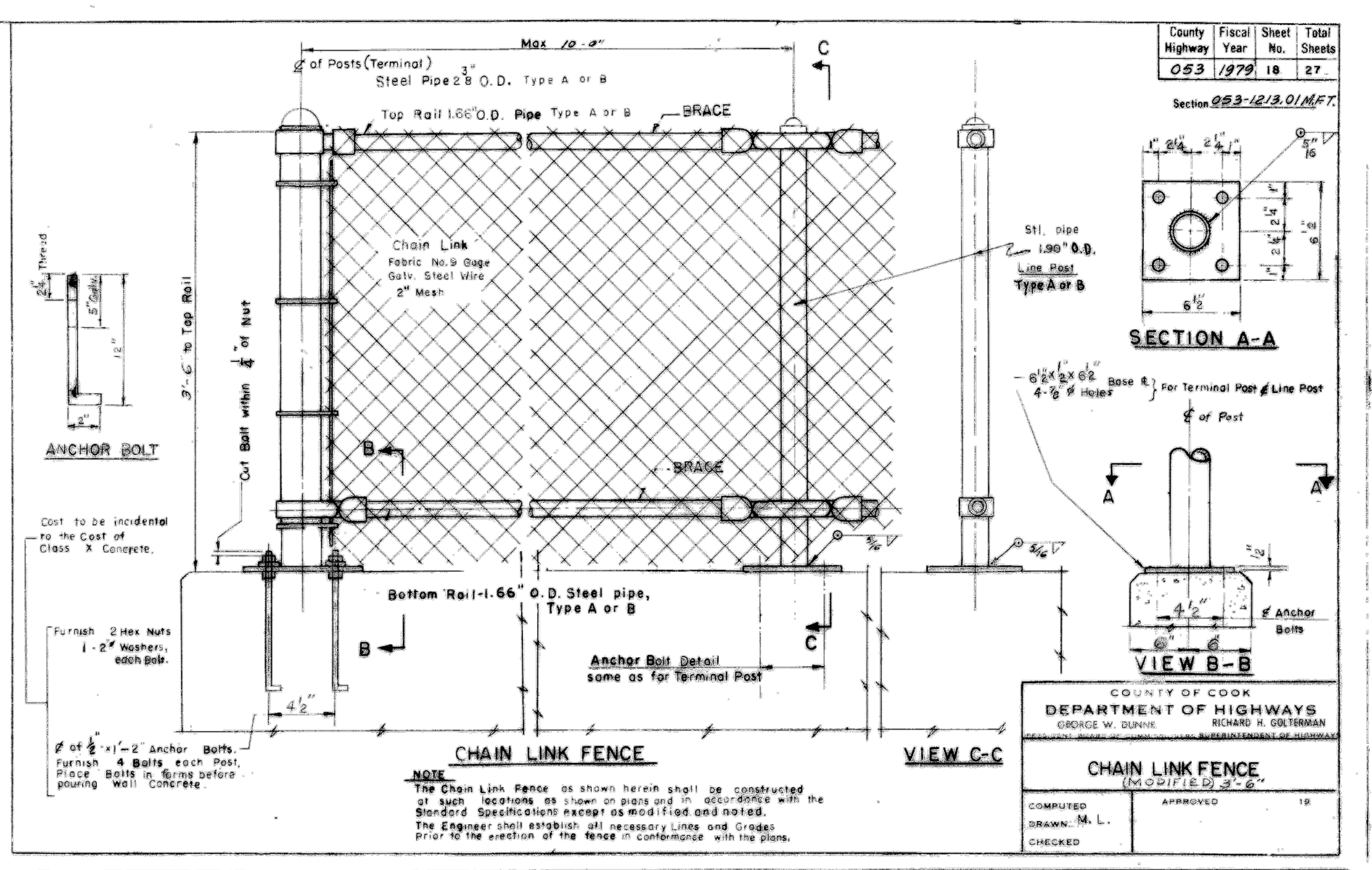
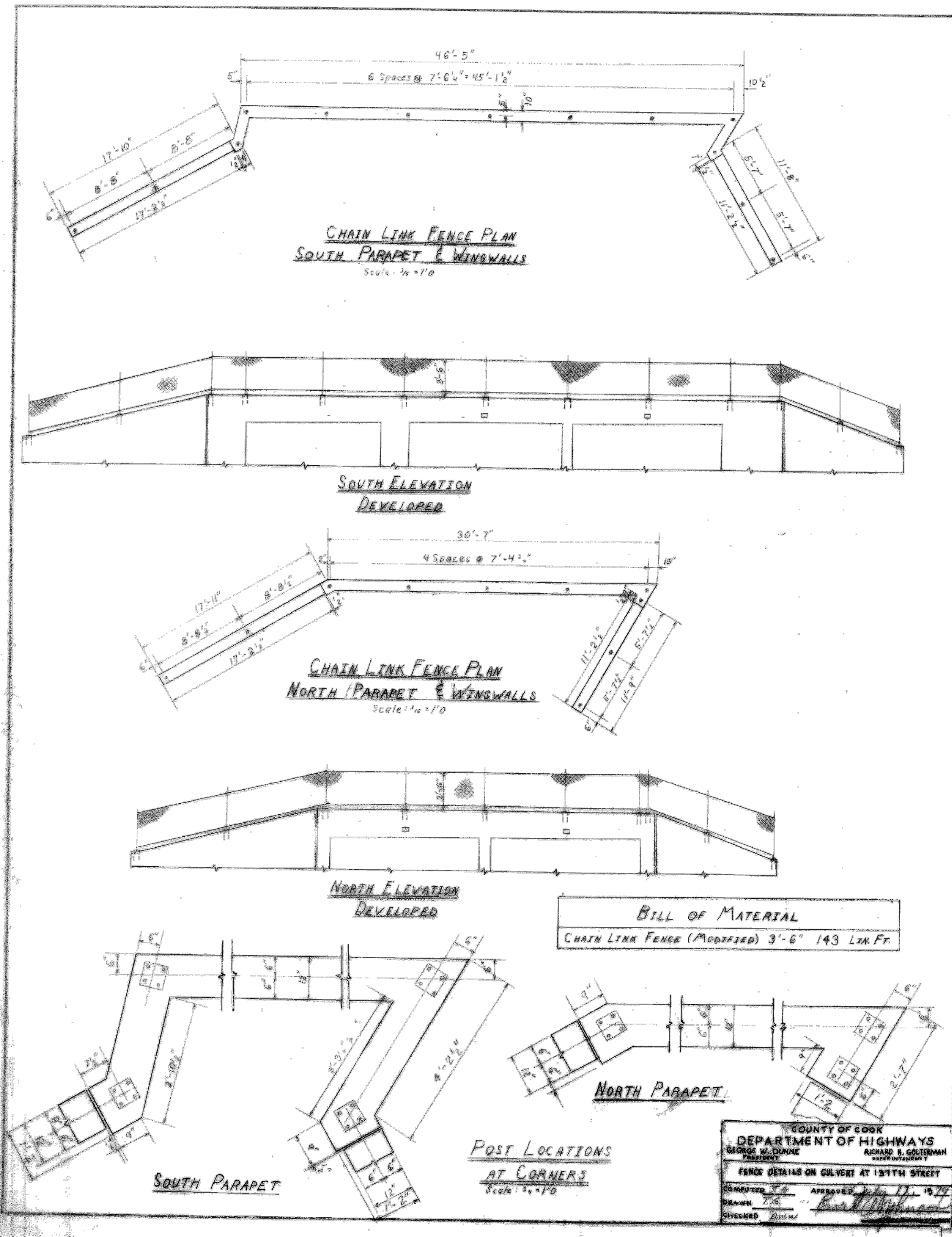
CONTRACT 14-253-5FR  
 FLOOD CONTROL PROJECT ON  
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)  
 LITTLE CALUMET RIVER WATERSHED  
 KEDZIE AVE MAIN DRAIN  
 SHEET 16

Sheet Number:  
**R-009**

**REFERENCE ONLY - NOT TO SCALE**

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**MIDLOTHIAN CREEK  
BUILT 19XX BY  
COOK COUNTY  
SECTION 053-1213.01MFT.  
DESIGN LOADING HS20-44**

**BILL OF MATERIAL**  
Name Plates 1 Each

**NOTES:**  
- PLATES SHALL BE FURNISHED AND INSTALLED AS SPECIFIED IN SECTION 514 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JULY 1, 1976, AND AS SHOWN ON THE PLANS.  
- MATERIAL - BEST QUALITY BRASS OR BRONZE. BORDER & LETTERS - RAISED 1/8 INCH. SQUARE CUT AND NOT TAPERED. TOP SURFACE POLISHED.

**DEPARTMENT OF COOK COUNTY HIGHWAYS**  
GEORGE W. DUNNE, PRESIDENT  
RICHARD H. GOLTSMAN, SUPERINTENDENT  
**NAME PLATES**  
COMPUTED: [Signature] APPROVED: [Signature] 10/15/74  
DRAWN: M.L.  
CHECKED: [Signature]

1-16-75

**BUILT AS SHOWN  
EXCEPT AS NOTED**

Date \_\_\_\_\_ Contractor \_\_\_\_\_  
Date \_\_\_\_\_ MWRD Resident Engineer \_\_\_\_\_

**CONTRACT 14-253-5FR**  
 FLOOD CONTROL PROJECT ON  
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)  
 LITTLE CALUMET RIVER WATERSHED  
 KEDZIE AVE MAIN DRAIN  
 SHEET 19

Sheet Number:  
**R-010**

**REFERENCE ONLY - NOT TO SCALE**

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P:\13278ch\Drawings\Contracts\14-253-3F\Reference\Sheets\14-253-BF\R-011.dwg 1/10/2024 11:32 AM

| County | Fiscal Year | Sheet No. | Total Sheets |
|--------|-------------|-----------|--------------|
| W46    | 1987        | 1         | 104          |

Section: 82-W4612-02-R.P.



STATE OF ILLINOIS  
 COUNTY OF COOK  
 DEPARTMENT OF HIGHWAYS

**PLANS FOR PROPOSED  
 COUNTY HIGHWAY**

**KEDZIE AVENUE**  
 139<sup>TH</sup> STREET TO 135<sup>TH</sup> STREET

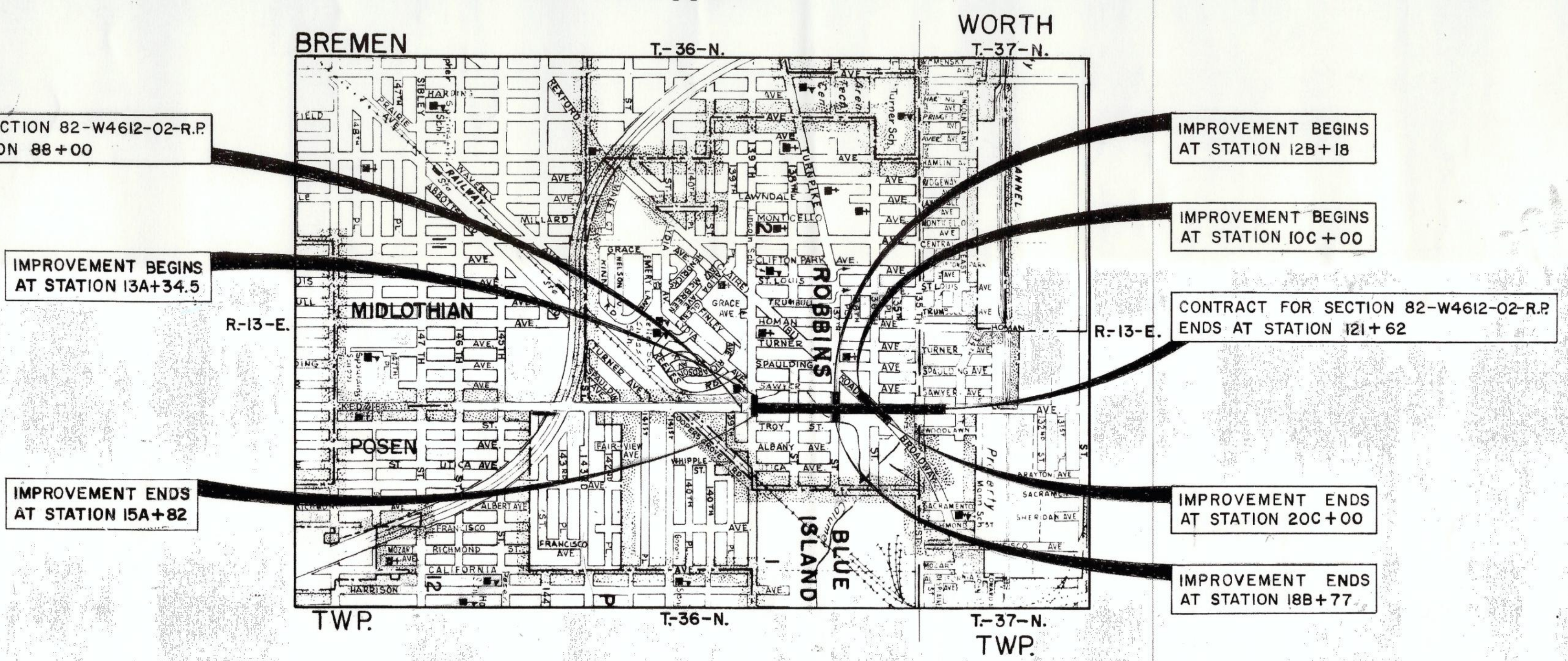
COUNTY HIGHWAY W46 SECTION 82-W4612-02-R.P.

FOR INDEX OF SHEETS, SEE SHEET No 2

REFERENCE ONLY - NOT TO SCALE

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- STANDARD SYMBOLS**
- PROPOSED GRADE LINE (PROFILE)
  - GUARD RAIL (PROPOSED)
  - CENTER LINE OF CONSTRUCTION
  - CONSTRUCTION JOINT
  - CONSTRUCTION JOINT
  - DIRECTION OF DRAINAGE
  - SUMMIT
  - BALANCE POINT
  - ELEVATION OF POINT INDICATED
  - EXISTING INLET, ABOVE GROUND (CONSTRUCTED)
  - INLET TO BE FILLED
  - EXISTING CATCH BASIN (RECONSTRUCT)
  - CATCH BASIN TO BE FILLED
  - EXISTING MANHOLE (RECONSTRUCT)
  - MANHOLE TO BE FILLED
  - MANHOLE TO BE FILLED
  - MANHOLE TO BE FILLED
  - EXISTING SEWER (DIAMETER & TYPE)
  - MONOLITHIC CONCRETE CULVERT (LENGTH, DIAMETER & TYPE)
  - EXISTING PIPE CULVERT (LENGTH, DIAMETER & TYPE)
  - LOCATION OF RAMPED SIDEWALK
  - CONVENTIONAL SIGNS FOR SHEET NO 1
- SECTION TOWNSHIP OR GRANT LINE
  - CITY OR VILLAGE LIMITS
  - RAILROAD OR UTILITY TRACKS
  - ROW OR PROPERTY LINE
  - SECTION CORNER
  - FENCE (BARBED WIRE)
  - FENCE (NO DISTINCTION)
  - GUARD POST (EXISTING)
  - GUARD RAIL (EXISTING)
  - MARSH
  - STREAM
  - TREES (WITH DIAMETER)
  - HEDGE
  - TRAVELED WAY
  - VALVE VAULT - WATER (W) GAS (G)
  - METER VAULT (DOMESTIC)
  - UTILITY CO. MANHOLE - TEL. (T) POWER (E)
  - HANDHOLE
  - BUFFALO BOX (DOMESTIC)
  - FIRE HYDRANT
  - LIGHT POLE
  - TRAFFIC SIGNAL (AUTOMATIC)
  - TRAFFIC SIGN
  - UTILITY CO. POLE & STREET LIGHT
  - TELEPHONE POLE
  - "POWER LINE POLE"
  - R.R. CROSS BUCK
  - R.R. FLASHING LIGHT SIGNALS
  - R.R. FLASHING LIGHT SIGNALS & GATES
  - JOINTLY OWNED POLE
  - TELEPHONE CO. ABOVE GROUND CLOSURE
  - EXISTING HEADWALL AND CULVERT (LENGTH, SIZE & TYPE)



CONTRACT FOR SECTION 82-W4612-02-R.P. BEGINS AT STATION 88+00

IMPROVEMENT BEGINS AT STATION 12B+18

IMPROVEMENT BEGINS AT STATION 13A+34.5

IMPROVEMENT BEGINS AT STATION 10C+00

IMPROVEMENT ENDS AT STATION 15A+82

CONTRACT FOR SECTION 82-W4612-02-R.P. ENDS AT STATION 12I+62

IMPROVEMENT ENDS AT STATION 20C+00

IMPROVEMENT ENDS AT STATION 18B+77

GROSS LENGTH = 3,362 FEET = 0.6367 MILES (KEDZIE AVENUE)  
 NET LENGTH = 3,362 FEET = 0.6367 MILES (KEDZIE AVENUE)

THE CONTRACTOR'S ATTENTION IS DIRECTED TO TELEPHONE J.U.L.I.E. 1-800-892-0123 FOR UTILITY LOCATIONS.

DESIGN DESIGNATION  
 2070(2004)-AREA SERVICE-I.439 (P.C.C.-20)  
 DESIGN SPEED - 45 M.P.H.

COUNTY OF COOK  
 DEPARTMENT OF HIGHWAYS

APPROVED: *November 13 19 87*  
*Alexander M. Soren*

APPROVED: *November 13 19 87*  
*Henry D. Balliet*  
 CHIEF ENGINEER OF DESIGN

APPROVED: *November 13 19 87*  
*Alexander M. Soren*  
 SUPERINTENDENT

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PASSED: \_\_\_\_\_ 19\_\_\_\_

DISTRICT ENGINEER OF LOCAL ROADS AND STREETS

APPROVED: \_\_\_\_\_ 19\_\_\_\_

DISTRICT ENGINEER

CONTRACT 14-253-5FR  
 FLOOD CONTROL PROJECT ON  
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)  
 LITTLE CALUMET RIVER WATERSHED  
 KEDZIE AVE 139TH ST TO 135TH ST  
 SHEET 1

Sheet Number:  
 R-011

PLOT DATE: 8/15/2024 12:40 PM PLOTTED BY: MADRID, MICHELLE



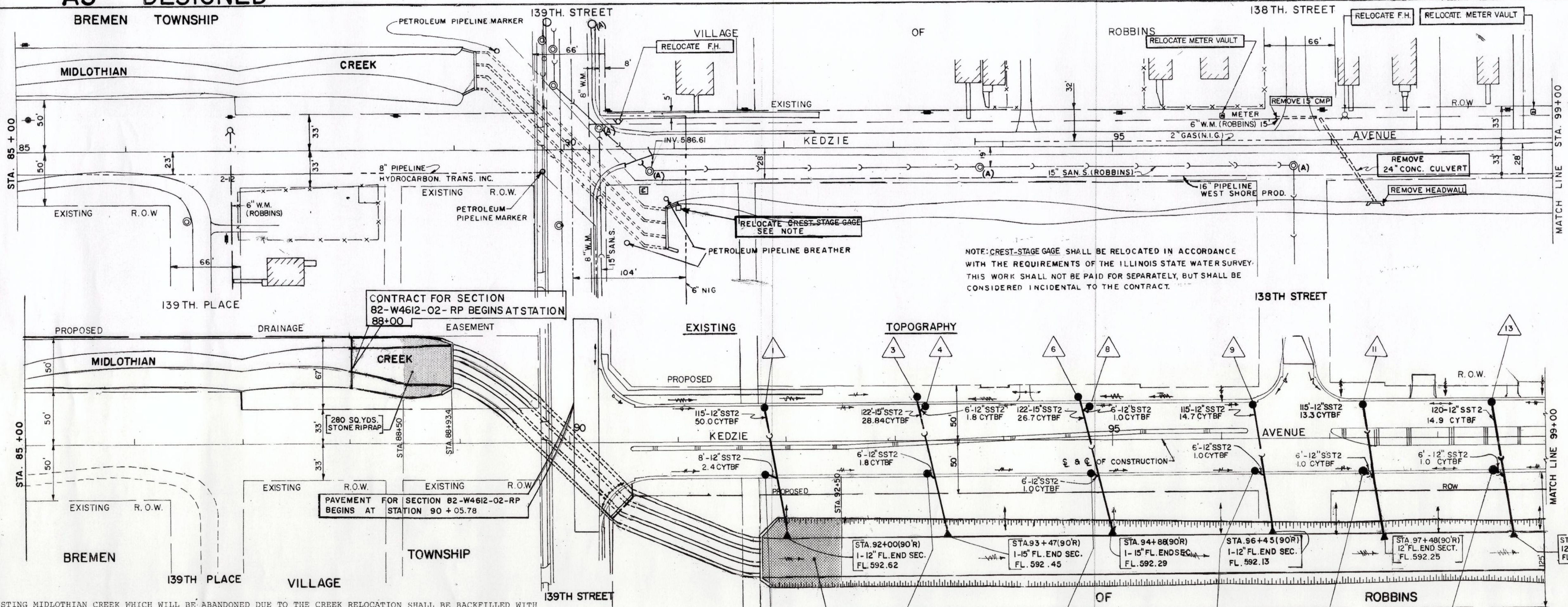
P:\13278ch\Drawings\Contracts\14-253-3F\Reference\Sheets\14-253-BF-R-012.dwg 1/10/2024 11:32 AM

**AS DESIGNED**

AS DESIGN

| County Highway | Fiscal Year | Sheet No. | Total Sheets |
|----------------|-------------|-----------|--------------|
| W 46           | 1987        | ZC        | 104          |

Section 85 - W4612-02 RP

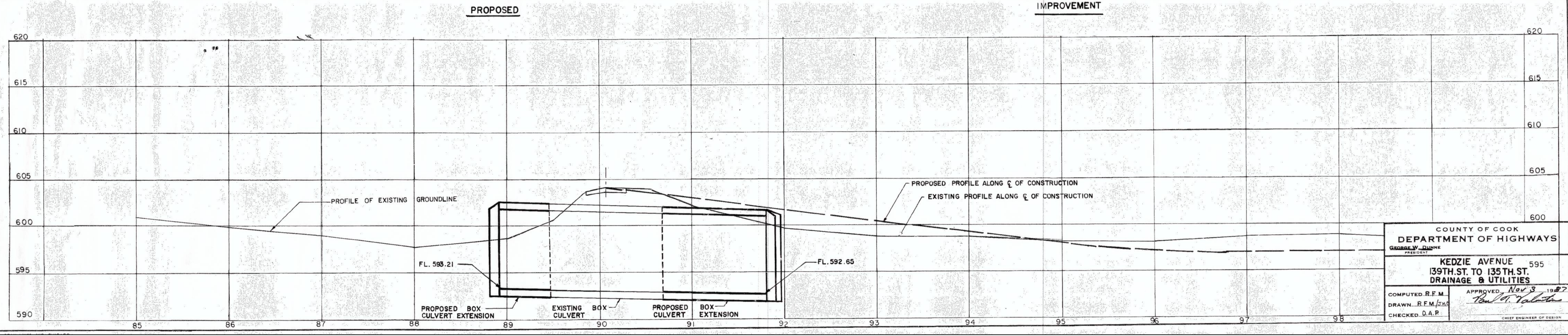


NOTE: CREST-STAGE GAGE SHALL BE RELOCATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ILLINOIS STATE WATER SURVEY. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

NOTE: THE PORTION OF THE EXISTING MIDLOTHIAN CREEK WHICH WILL BE ABANDONED DUE TO THE CREEK RELOCATION SHALL BE BACKFILLED WITH MATERIAL EXCAVATED DURING THE CREEK RELOCATION AND WIDENING. ONLY MATERIAL THAT HAS BEEN DETERMINED SUITABLE BY THE ENGINEER SHALL BE USED. FILLING AND COMPACTING OPERATIONS SHALL BE DONE AT THE DIRECTION OF THE ENGINEER AND SHALL CONFORM TO THE SHAPE AND GRADE AS SHOWN ON THE CROSS SECTIONS. THE MATERIAL AND WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE COST OF CHANNEL EXCAVATION.

THIS SYMBOL DENOTES AREAS TO BE STONE RIPRAPPED

| Station         | Structure | Material   | Quantity |
|-----------------|-----------|------------|----------|
| STA. 91+80      | A2-48-24  | FL. 593.2  |          |
| STA. 91+80      | A2-48-24  | FL. 596.1  |          |
| STA. 93+20(42L) | A2-48-6   | FL. 593.5  |          |
| STA. 93+30      | A2-48-24  | FL. 594.22 |          |
| STA. 93+30      | A2-48-24  | FL. 599.72 |          |
| STA. 93+30      | A2-48-24  | FL. 594.22 |          |
| STA. 94+70(41L) | A2-48-6   | FL. 593.30 |          |
| STA. 94+80      | A2-48-24  | FL. 593.30 |          |
| STA. 94+80      | A2-48-24  | FL. 597.86 |          |
| STA. 94+80      | A2-48-24  | FL. 593.10 |          |
| STA. 96+30      | A2-48-24  | FL. 593.10 |          |
| STA. 96+30      | A2-48-24  | FL. 593.10 |          |
| STA. 96+30      | A2-48-24  | FL. 593.10 |          |
| STA. 97+30      | A2-48-24  | FL. 593.25 |          |
| STA. 97+30      | A2-48-24  | FL. 593.25 |          |
| STA. 97+30      | A2-48-24  | FL. 593.25 |          |
| STA. 98+50      | A2-48-24  | FL. 593.00 |          |
| STA. 98+50      | A2-48-24  | FL. 596.45 |          |
| STA. 98+50      | A2-48-24  | FL. 593.00 |          |



COUNTY OF COOK  
 DEPARTMENT OF HIGHWAYS  
 GEORGE W. DUNNE  
 PRESIDENT  
 KEDZIE AVENUE  
 139TH ST. TO 135TH ST.  
 DRAINAGE & UTILITIES

COMPUTED R.F.M.  
 DRAWN R.F.M./D.A.P.  
 CHECKED D.A.P.

APPROVED Nov 3 1987  
 [Signature]  
 CHIEF ENGINEER OF DESIGN

CONTRACT 14-253-5FR  
 FLOOD CONTROL PROJECT ON  
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)  
 LITTLE CALUMET RIVER WATERSHED  
 KEDZIE AVE 139TH ST TO 135TH ST  
 SHEET 26

Sheet Number:  
**R-012**

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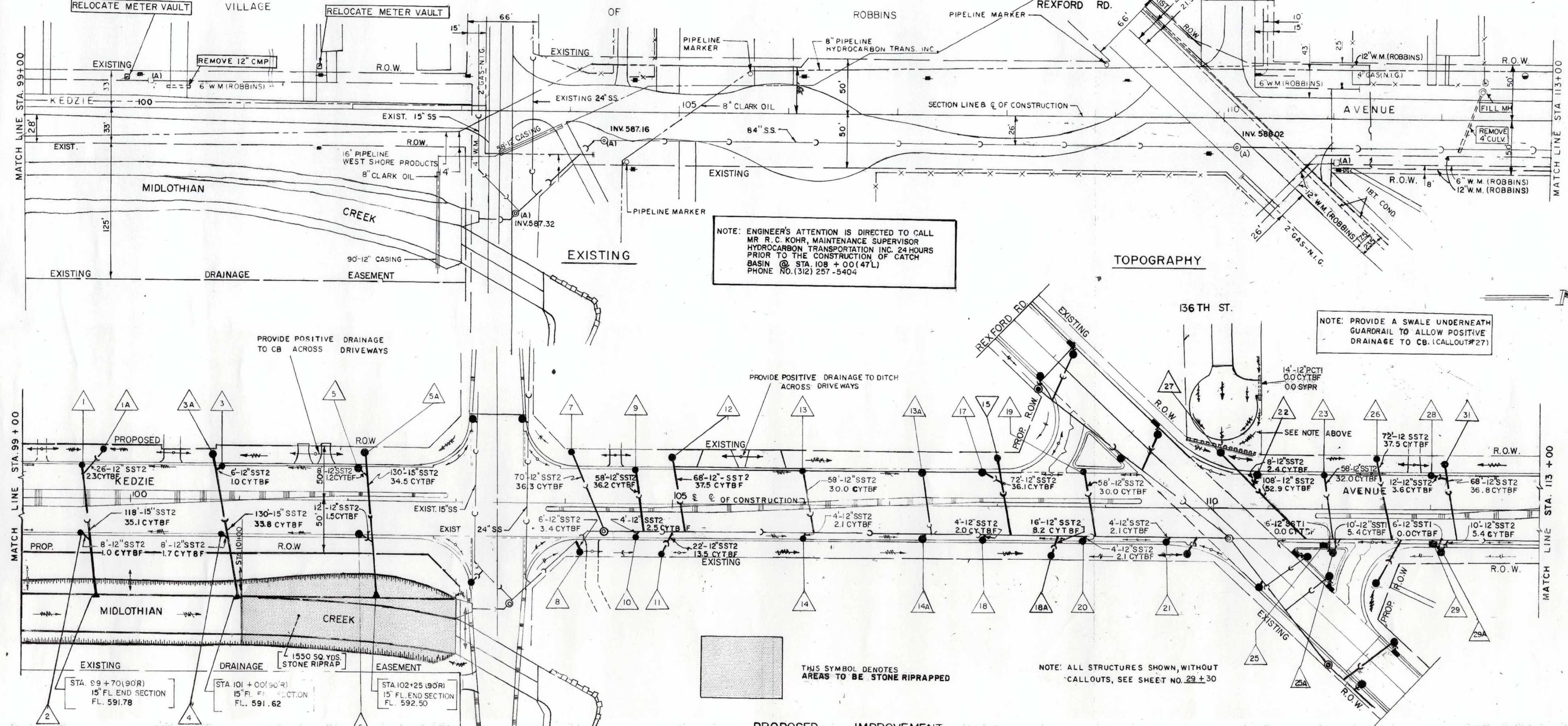


# AS DESIGNED

BREMEN TOWNSHIP 137TH STREET

|        |        |       |       |
|--------|--------|-------|-------|
| County | Fiscal | Sheet | Total |
| W 46   | 198 T  | 27    | 104   |

Section: 82-W4612-02-RP



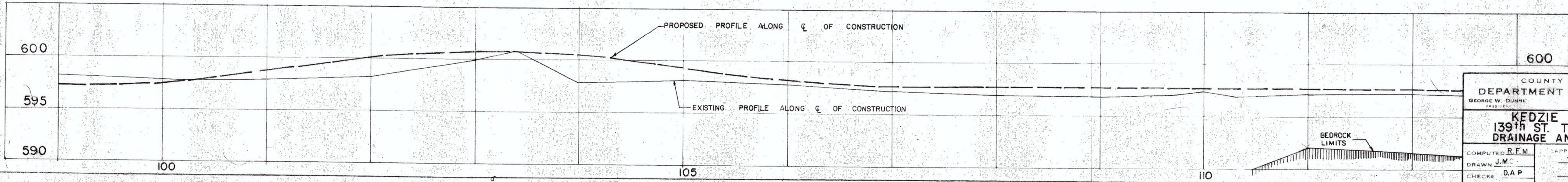
NOTE: ENGINEER'S ATTENTION IS DIRECTED TO CALL MR R. C. KOHR, MAINTENANCE SUPERVISOR HYDROCARBON TRANSPORTATION INC. 24 HOURS PRIOR TO THE CONSTRUCTION OF CATCH BASIN @ STA. 108 + 00 (47L) PHONE NO. (312) 257-5404

NOTE: PROVIDE A SWALE UNDERNEATH GUARDRAIL TO ALLOW POSITIVE DRAINAGE TO CB. (CALLOUT#27)

THIS SYMBOL DENOTES AREAS TO BE STONE RIPRAPPED

NOTE: ALL STRUCTURES SHOWN, WITHOUT CALLOUTS, SEE SHEET NO. 29 ± 30

| PROPOSED | IMPROVEMENT |
|----------|-------------|
| 1        | 10          |
| 2        | 11          |
| 3        | 12          |
| 4        | 13          |
| 5        | 14          |
| 6        | 15          |
| 7        | 16          |
| 8        | 17          |
| 9        | 18          |
| 10       | 19          |
| 11       | 20          |
| 12       | 21          |
| 13       | 22          |
| 14       | 23          |
| 15       | 24          |
| 16       | 25          |
| 17       | 26          |
| 18       | 27          |
| 19       | 28          |
| 20       | 29          |
| 21       | 30          |
| 22       | 31          |
| 23       | 32          |
| 24       | 33          |
| 25       | 34          |
| 26       | 35          |
| 27       | 36          |
| 28       | 37          |
| 29       | 38          |
| 30       | 39          |
| 31       | 40          |
| 32       | 41          |
| 33       | 42          |
| 34       | 43          |
| 35       | 44          |
| 36       | 45          |
| 37       | 46          |
| 38       | 47          |
| 39       | 48          |
| 40       | 49          |
| 41       | 50          |
| 42       | 51          |
| 43       | 52          |
| 44       | 53          |
| 45       | 54          |
| 46       | 55          |
| 47       | 56          |
| 48       | 57          |
| 49       | 58          |
| 50       | 59          |
| 51       | 60          |



COUNTY OF COOK  
DEPARTMENT OF HIGHWAYS  
GEORGE W. DUNNE

**KEDZIE AVENUE**  
139th ST. TO 135th ST.  
DRAINAGE AND UTILITIES

COMPUTED: R.F.M.  
DRAWN: J.M.C.  
CHECKED: D.A.P.

APPROVED: Nov 3 1997  
*Taylor*

**CONTRACT 14-253-5FR**  
FLOOD CONTROL PROJECT ON  
MIDLOTHIAN CREEK IN ROBBISS, ILLINOIS (RE-BID)  
LITTLE CALUMET RIVER WATERSHED  
**KEDZIE AVE 139TH ST TO 135TH ST**  
SHEET 27

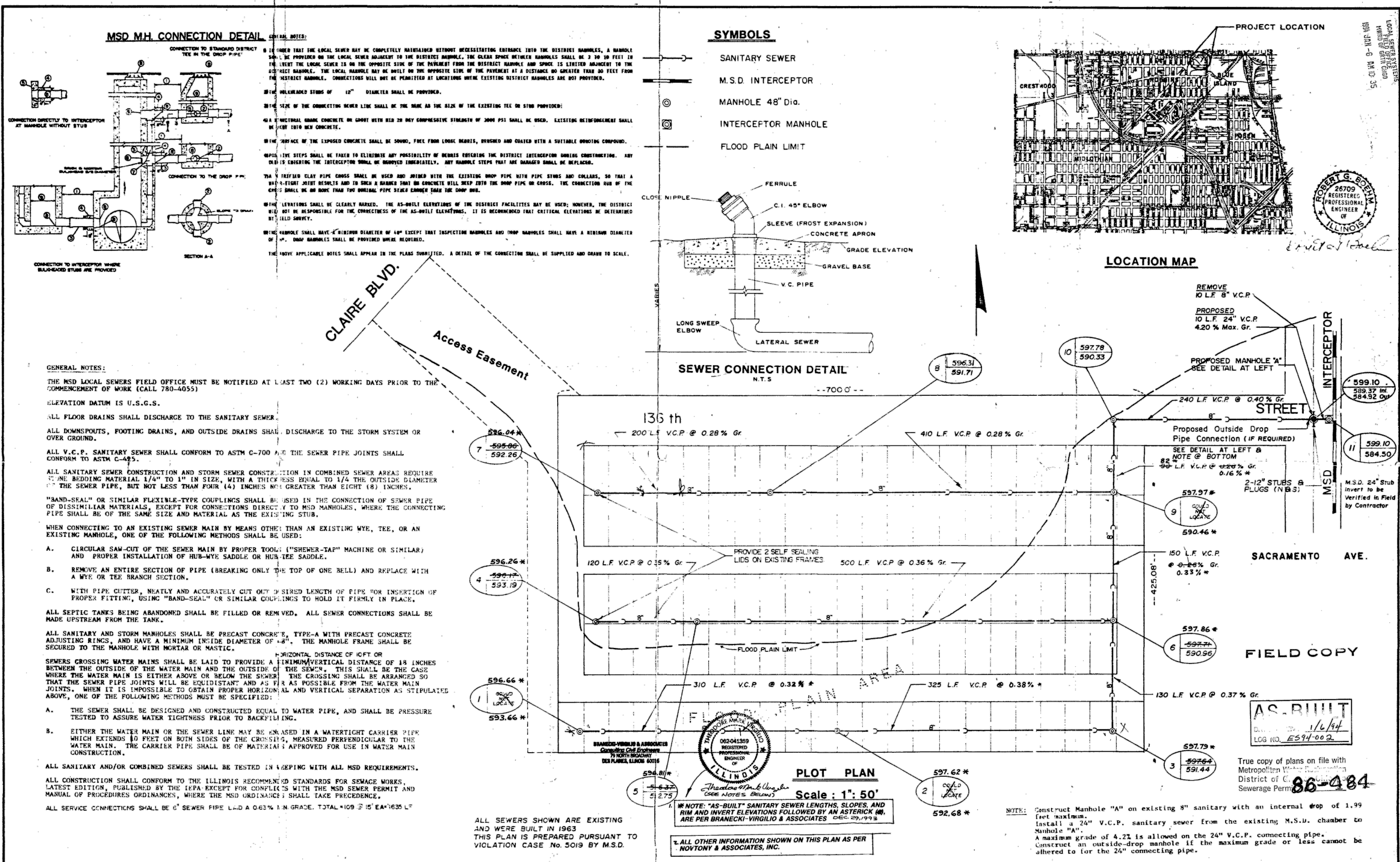
Sheet Number:  
**R-013**

**REFERENCE ONLY - NOT TO SCALE**

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PLOT DATE: 8/15/2024 12:41 PM PLOTTED BY: MADRID, MICHELLE  
 P:\13278ch\Drawings\Drawings\14-253-5FR\Reference\Drawings\14-253-5FR-014.dwg 1/10/2024 11:32 AM



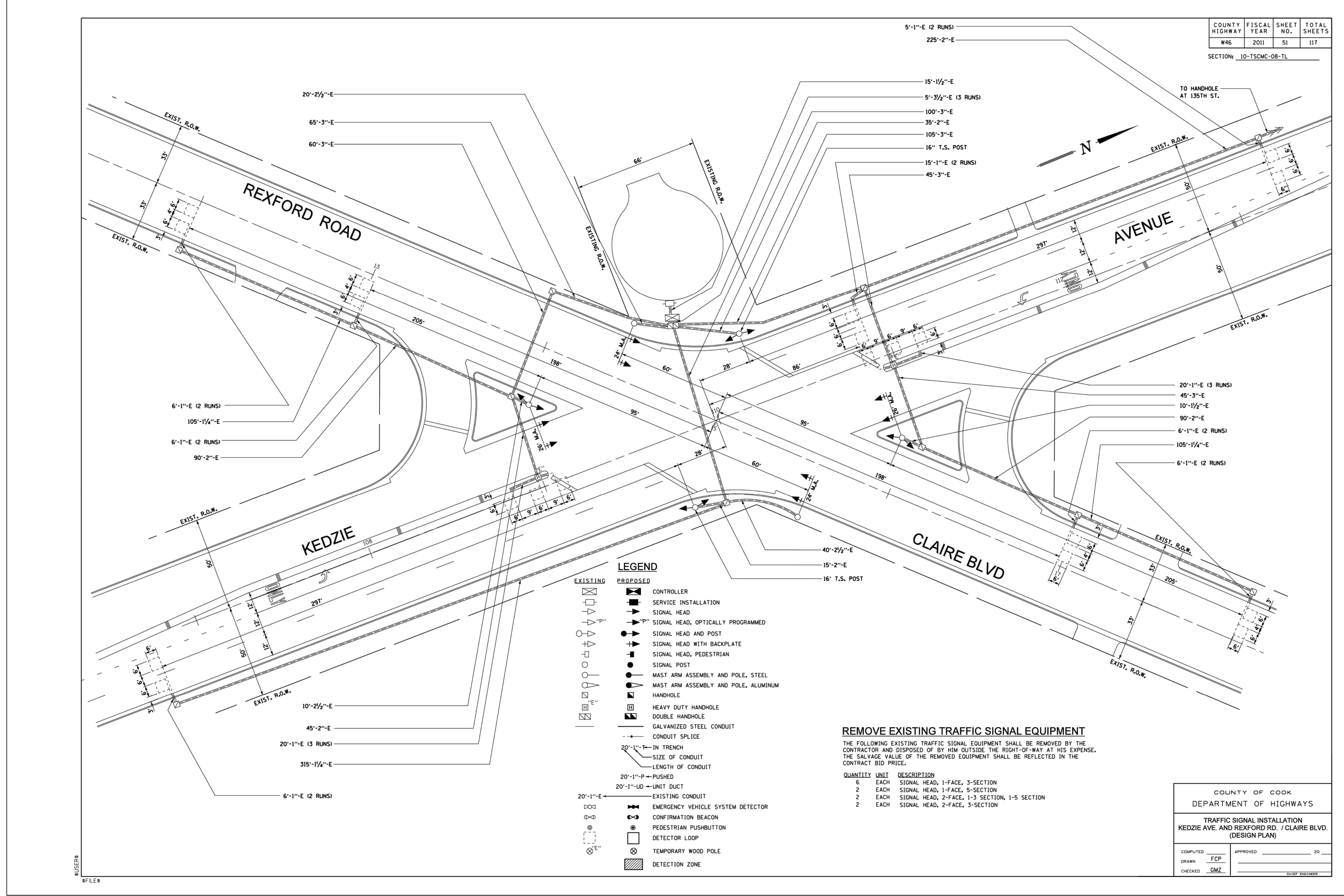
**REFERENCE ONLY - NOT TO SCALE**

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**CONTRACT 14-253-5FR**  
FLOOD CONTROL PROJECT ON  
MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)  
LITTLE CALUMET RIVER WATERSHED  
WYNNHAVEN MOBILE HOME PARK  
SEWER PLAN

Sheet Number:  
**R-014**





| COUNTY HIGHWAY | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|----------------|-------------|-----------|--------------|
| W46            | 2011        | 51        | 117          |

SECTION: 10-TSCMC-08-TL

**LEGEND**

|  |                                      |  |                                   |
|--|--------------------------------------|--|-----------------------------------|
|  | EXISTING CONDUIT                     |  | CONTROLLER                        |
|  | SERVICE INSTALLATION                 |  | SIGNAL HEAD                       |
|  | SIGNAL HEAD, OPTICALLY PROGRAMMED    |  | SIGNAL HEAD AND POST              |
|  | SIGNAL HEAD WITH BACKPLATE           |  | SIGNAL HEAD, PEDESTRIAN           |
|  | SIGNAL POST                          |  | MAST ARM ASSEMBLY AND POLE, STEEL |
|  | MAST ARM ASSEMBLY AND POLE, ALUMINUM |  | HANDHOLE                          |
|  | HEAVY DUTY HANDHOLE                  |  | DOUBLE HANDHOLE                   |
|  | GALVANIZED STEEL CONDUIT             |  | CONDUIT SPLICE                    |
|  | CONDUIT IN TRENCH                    |  | SIZE OF CONDUIT                   |
|  | LENGTH OF CONDUIT                    |  | 20'-1"-P - PUSHED                 |
|  | 20'-1"-LD - UNIT DUCT                |  | EMERGENCY VEHICLE SYSTEM DETECTOR |
|  | CONFIRMATION BEACON                  |  | PEDESTRIAN PUSHBUTTON             |
|  | DETECTOR LOOP                        |  | TEMPORARY WOOD POLE               |
|  | DETECTION ZONE                       |  |                                   |

**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT**

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF BY HIM OUTSIDE THE RIGHT-OF-WAY AT HIS EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

| QUANTITY | UNIT | DESCRIPTION                                   |
|----------|------|---|
| 6        | EACH | SIGNAL HEAD, 1-FACE, 3-SECTION                |
| 2        | EACH | SIGNAL HEAD, 1-FACE, 5-SECTION                |
| 2        | EACH | SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION |
| 2        | EACH | SIGNAL HEAD, 2-FACE, 3-SECTION                |

|  |                |
|--|----------------|
| COUNTY OF COOK<br>DEPARTMENT OF HIGHWAYS   |                |
| TRAFFIC SIGNAL INSTALLATION<br>KEDZIE AVE. AND REXFORD RD. / CLAIRE BLVD.<br>(DESIGN PLAN) |                |
| COMPUTED   | APPROVED       |
| DRAWN: FCP   | 20             |
| CHECKED: CMZ   | CHIEF ENGINEER |

**CONTRACT 14-253-5FR**  
 FLOOD CONTROL PROJECT ON  
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)  
 LITTLE CALUMET RIVER WATERSHED  
**CCDOH KEDZIE AVE AND CLAIRE  
 BLVD TRAFFIC SIGNAL PLAN**

Sheet Number:  
**R-015**

**REFERENCE ONLY - NOT TO SCALE**

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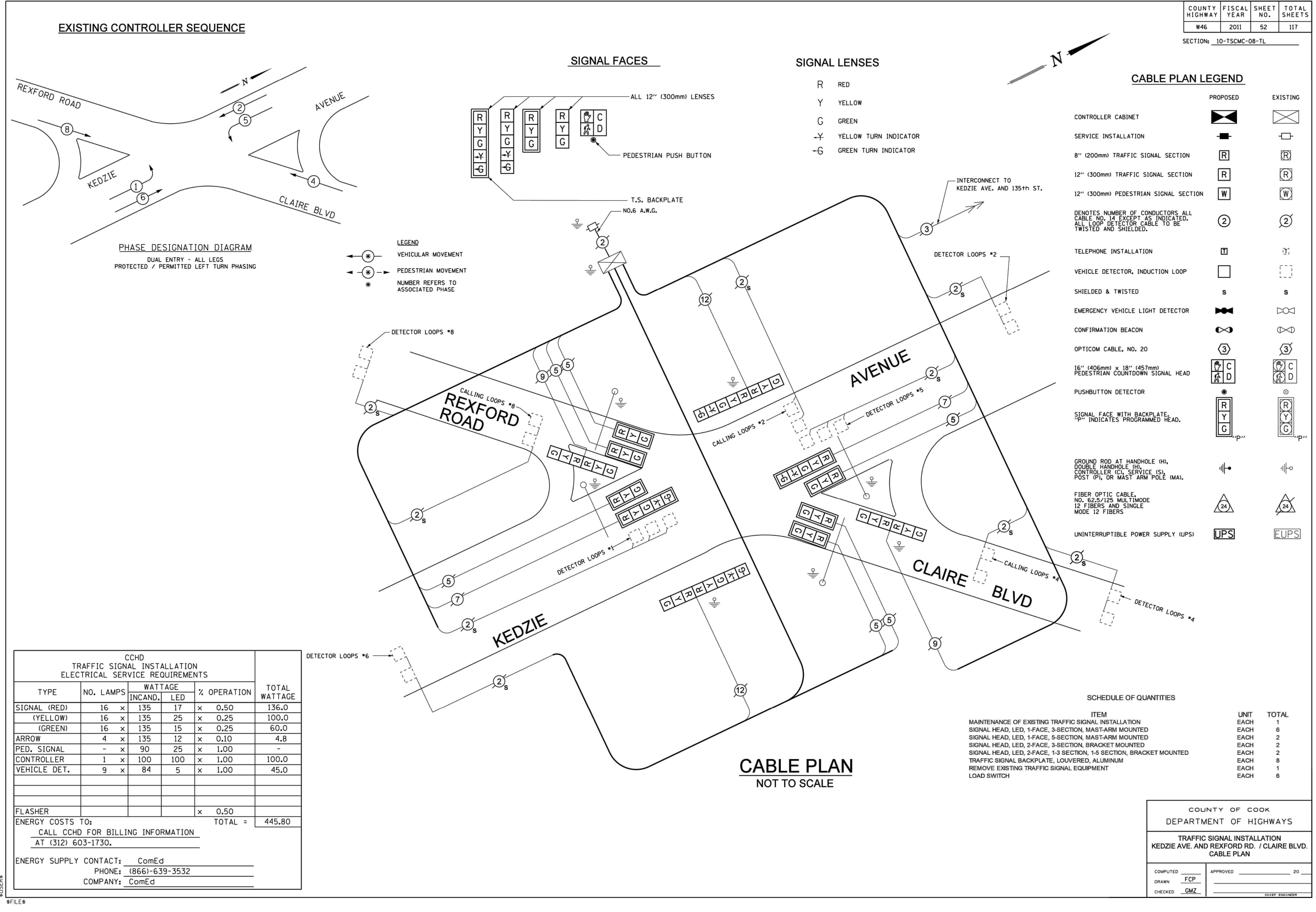


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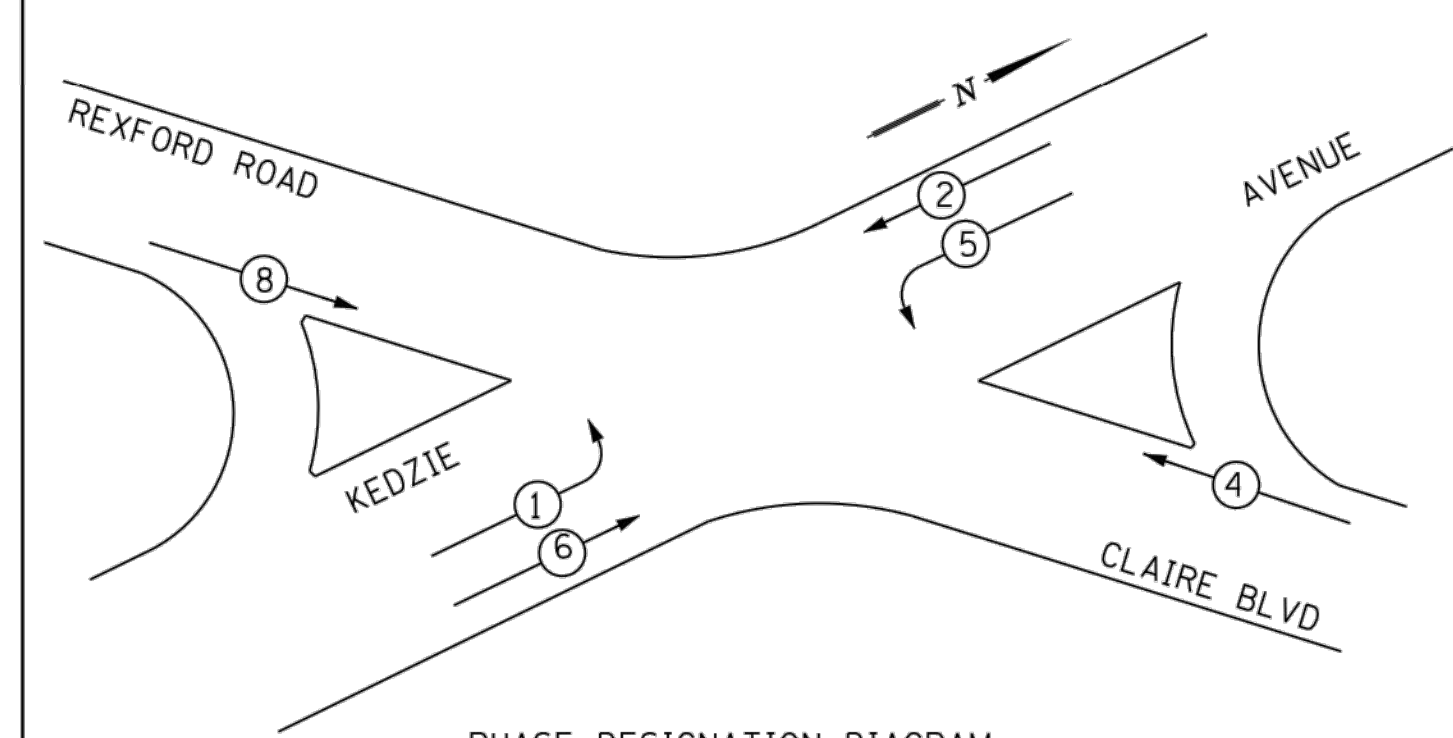
PLOT DATE: 8/15/2024 12:41 PM PLOTTED BY: MADRID, MICHELLE

|                |             |           |              |
|----------------|-------------|-----------|--------------|
| COUNTY HIGHWAY | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| W46            | 2011        | 52        | 117          |

SECTION: 10-TSCMC-08-TL



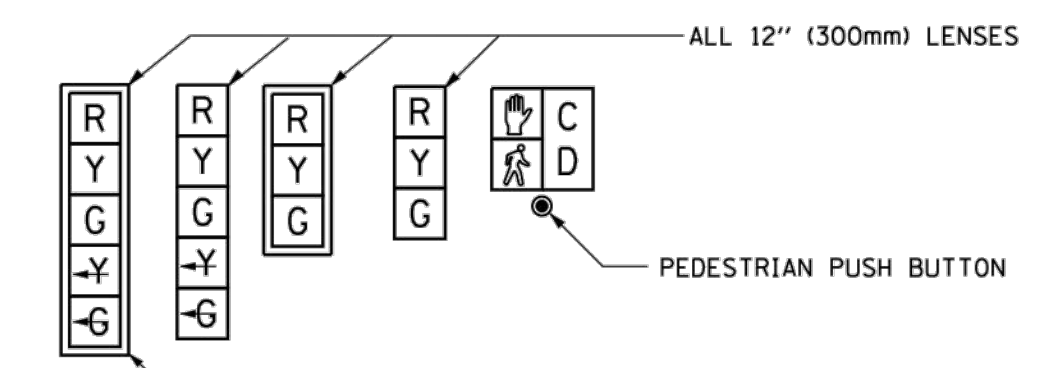
**EXISTING CONTROLLER SEQUENCE**



**PHASE DESIGNATION DIAGRAM**  
 DUAL ENTRY - ALL LEGS  
 PROTECTED / PERMITTED LEFT TURN PHASING

**LEGEND**  
 \* VEHICULAR MOVEMENT  
 \* PEDESTRIAN MOVEMENT  
 \* NUMBER REFERS TO ASSOCIATED PHASE

**SIGNAL FACES**



**SIGNAL LENSES**

- R RED
- Y YELLOW
- G GREEN
- Y- YELLOW TURN INDICATOR
- G GREEN TURN INDICATOR

**CABLE PLAN LEGEND**

- |  |          |          |
|--|----------|----------|
|  | PROPOSED | EXISTING |
| CONTROLLER CABINET   |          |          |
| SERVICE INSTALLATION   |          |          |
| 8" (200mm) TRAFFIC SIGNAL SECTION  |          |          |
| 12" (300mm) TRAFFIC SIGNAL SECTION   |          |          |
| 12" (300mm) PEDESTRIAN SIGNAL SECTION  |          |          |
| DENOTES NUMBER OF CONDUCTORS ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE TWISTED AND SHIELDED. |          |          |
| TELEPHONE INSTALLATION   |          |          |
| VEHICLE DETECTOR, INDUCTION LOOP   |          |          |
| SHIELDED & TWISTED   | s        | s        |
| EMERGENCY VEHICLE LIGHT DETECTOR   |          |          |
| CONFIRMATION BEACON  |          |          |
| OPTICOM CABLE, NO. 20  |          |          |
| 16" (406mm) x 18" (457mm) PEDESTRIAN COUNTDOWN SIGNAL HEAD   |          |          |
| PUSHBUTTON DETECTOR  |          |          |
| SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD.   |          |          |
| GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), CONTROLLER (C), SERVICE (S), POST (P), OR MAST ARM POLE (MA).         |          |          |
| FIBER OPTIC CABLE, NO. 62.5/125 MULTIMODE 12 FIBERS AND SINGLE MODE 12 FIBERS  |          |          |
| UNINTERRUPTIBLE POWER SUPPLY (UPS)   | UPS      | EUPS     |

| CCHD TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS |           |         |     |             |                |
|--|-----------|---------|-----|-------------|----------------|
| TYPE   | NO. LAMPS | WATTAGE |     | % OPERATION | TOTAL WATTAGE  |
|  |           | INCAND. | LED |             |                |
| SIGNAL (RED)   | 16 x      | 135     | 17  | x 0.50      | 136.0          |
| (YELLOW)   | 16 x      | 135     | 25  | x 0.25      | 100.0          |
| (GREEN)  | 16 x      | 135     | 15  | x 0.25      | 60.0           |
| ARROW  | 4 x       | 135     | 12  | x 0.10      | 4.8            |
| PED. SIGNAL  | - x       | 90      | 25  | x 1.00      | -              |
| CONTROLLER   | 1 x       | 100     | 100 | x 1.00      | 100.0          |
| VEHICLE DET.   | 9 x       | 84      | 5   | x 1.00      | 45.0           |
| FLASHER  |           |         |     | x 0.50      |                |
| ENERGY COSTS TO:   |           |         |     |             | TOTAL = 445.80 |
| CALL CCHD FOR BILLING INFORMATION AT (312) 603-1730.             |           |         |     |             |                |
| ENERGY SUPPLY CONTACT: ComEd                                     |           |         |     |             |                |
| PHONE: (866)-639-3532  |           |         |     |             |                |
| COMPANY: ComEd   |           |         |     |             |                |

**CABLE PLAN**  
NOT TO SCALE

**SCHEDULE OF QUANTITIES**

|   |      |       |
|---|------|-------|
| ITEM  | UNIT | TOTAL |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                 | EACH | 1     |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED               | EACH | 6     |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED               | EACH | 2     |
| SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED                | EACH | 2     |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED | EACH | 2     |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                        | EACH | 8     |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                            | EACH | 1     |
| LOAD SWITCH   | EACH | 6     |

|   |                         |
|---|-------------------------|
| COUNTY OF COOK<br>DEPARTMENT OF HIGHWAYS  |                         |
| TRAFFIC SIGNAL INSTALLATION<br>KEDZIE AVE. AND REXFORD RD. / CLAIRE BLVD.<br>CABLE PLAN |                         |
| COMPUTED  | APPROVED _____ 20__     |
| DRAWN FCP   |                         |
| CHECKED CMZ   | _____<br>CHIEF ENGINEER |

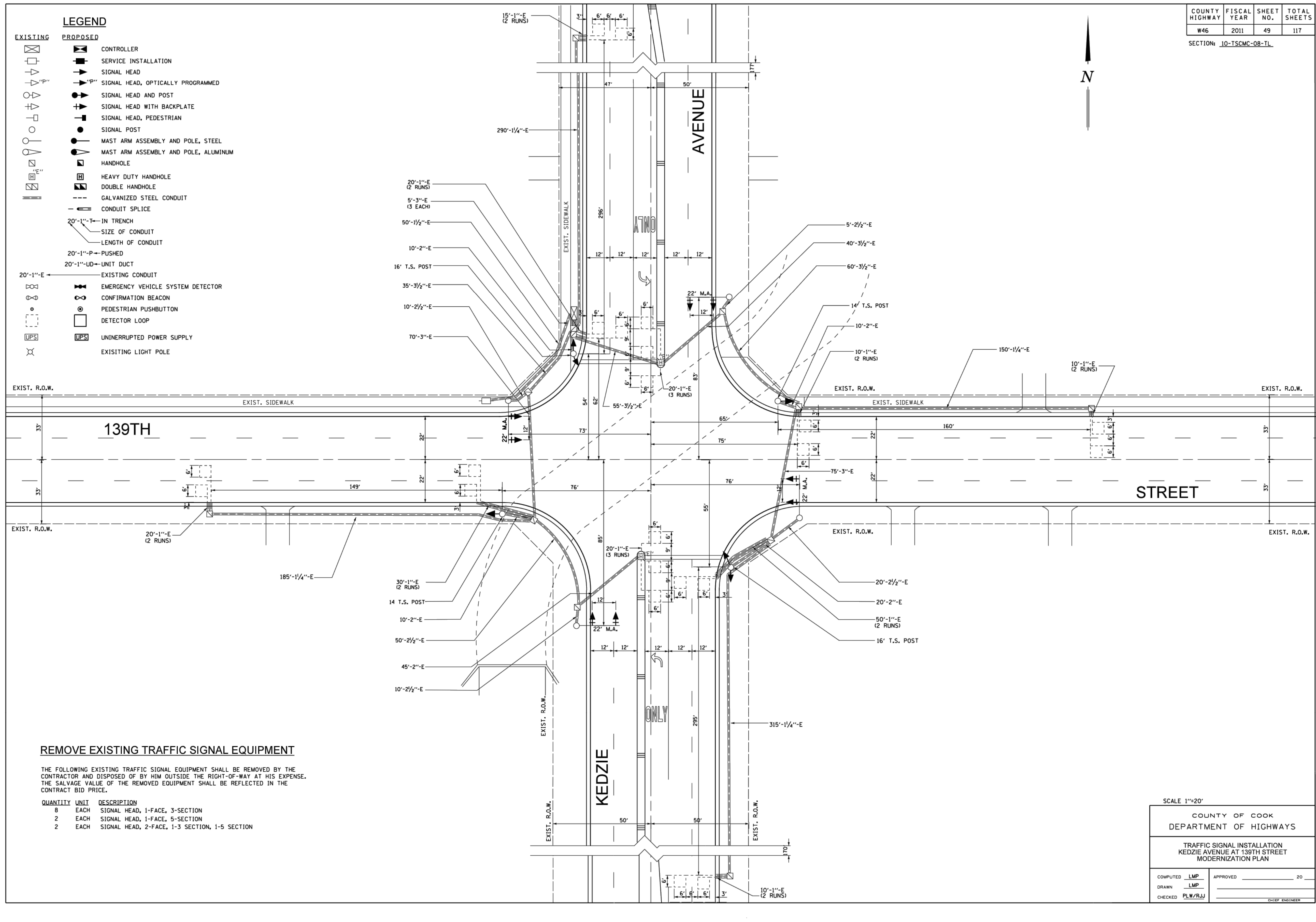
**CONTRACT 14-253-5FR**  
 FLOOD CONTROL PROJECT ON  
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)  
 LITTLE CALUMET RIVER WATERSHED  
**CCDOTH KEDZIE AVE AND CLAIRE AVE TRAFFIC SIGNAL CABLE PLAN**

Sheet Number:  
**R-016**

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**CONTRACT 14-253-5FR**  
FLOOD CONTROL PROJECT ON  
MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)  
LITTLE CALUMET RIVER WATERSHED  
**CCDOH KEDZIE AVE AND 139TH STREET TRAFFIC SIGNAL INSTALLATION**

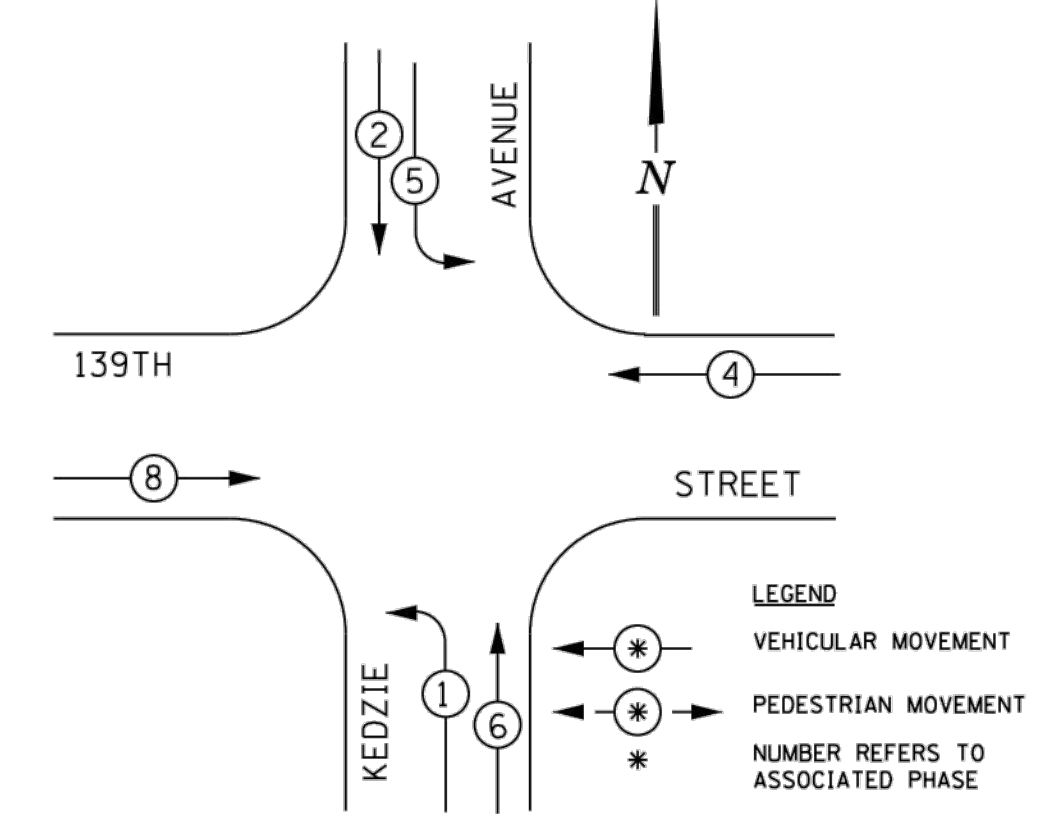
Sheet Number:  
**R-017**



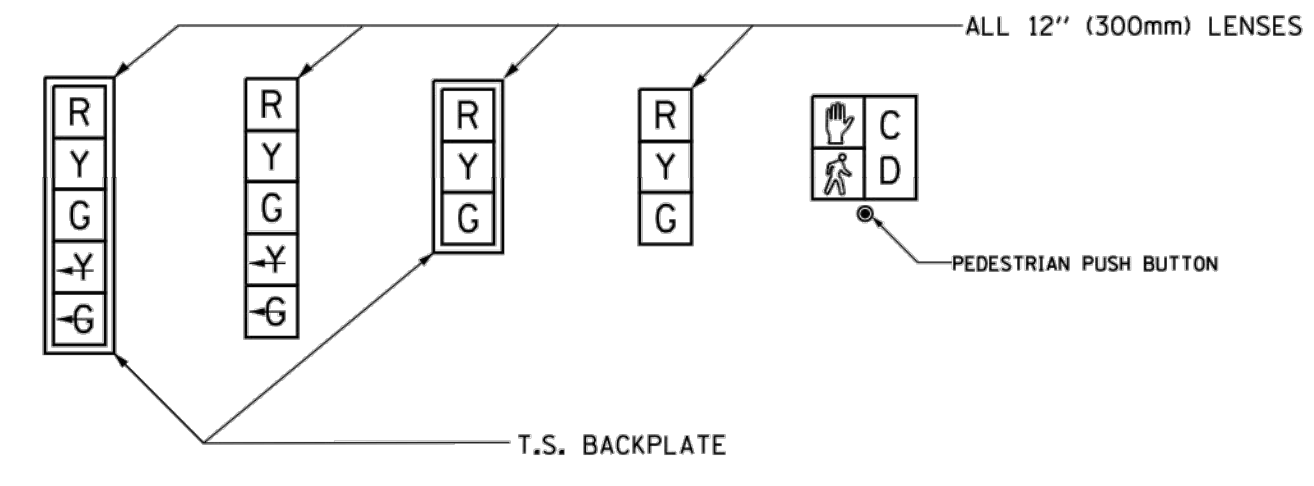
| COUNTY HIGHWAY | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|----------------|-------------|-----------|--------------|
| W46            | 2011        | 50        | 117          |

SECTION: 10-TSCMC-08-TL

**CONTROLLER SEQUENCE**

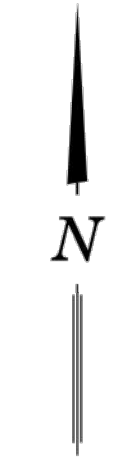


**SIGNAL FACES**



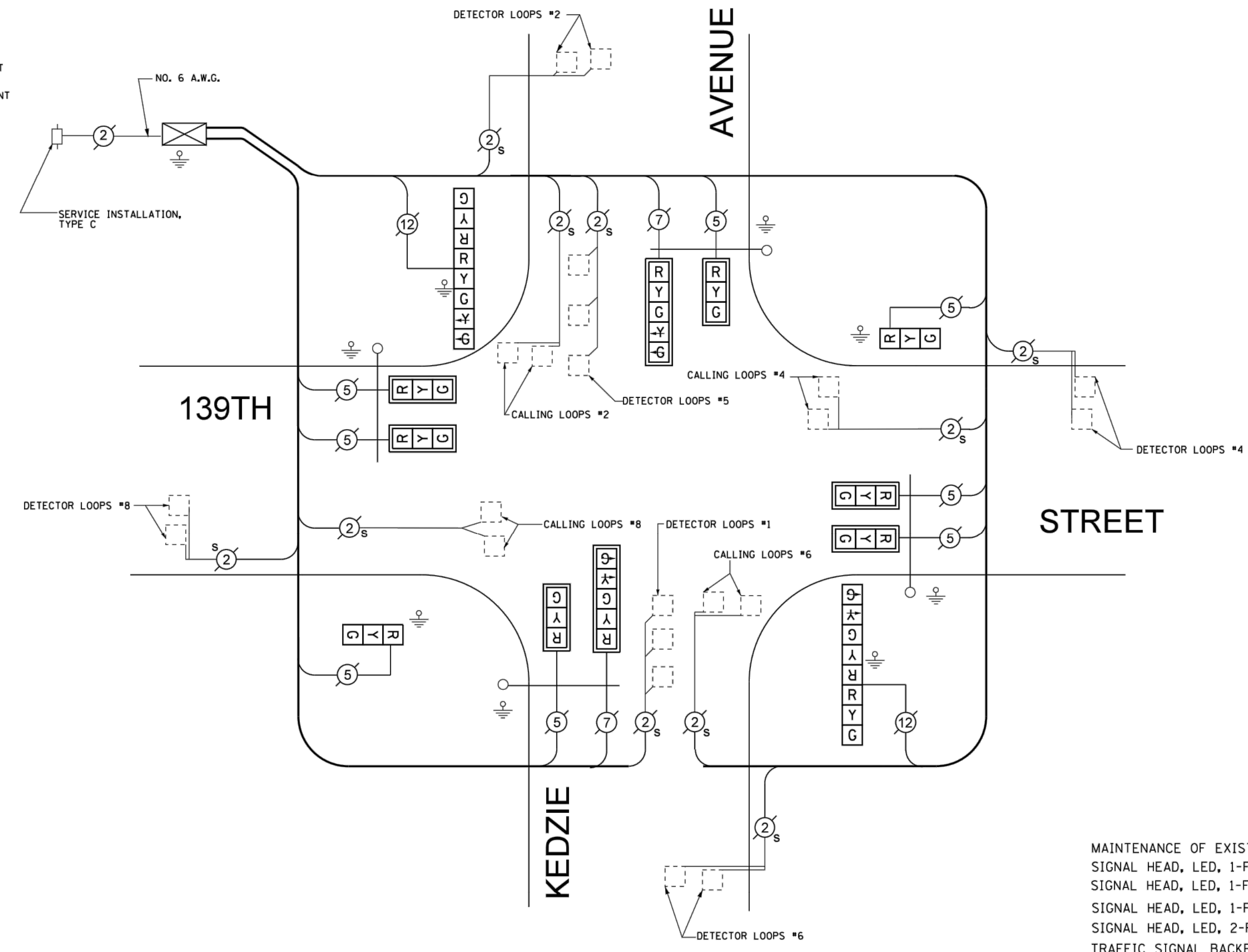
**SIGNAL LENSES**

- R RED
- Y YELLOW
- G GREEN
- Y-G YELLOW TURN INDICATOR
- G-G GREEN TURN INDICATOR



**CABLE PLAN LEGEND**

|  | PROPOSED | EXISTING |
|--|----------|----------|
| CONTROLLER CABINET   |          |          |
| SERVICE INSTALLATION   |          |          |
| 8" (200mm) TRAFFIC SIGNAL SECTION  |          |          |
| 12" (300mm) TRAFFIC SIGNAL SECTION   |          |          |
| 12" (300mm) PEDESTRIAN SIGNAL SECTION  |          |          |
| DENOTES NUMBER OF CONDUCTORS ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE TWISTED AND SHIELDED. |          |          |
| TELEPHONE INSTALLATION   |          |          |
| VEHICLE DETECTOR, INDUCTION LOOP   |          |          |
| SHIELDED & TWISTED   |          |          |
| EMERGENCY VEHICLE LIGHT DETECTOR   |          |          |
| CONFIRMATION BEACON  |          |          |
| OPTICOM CABLE, NO. 20  |          |          |
| 16" (406mm) x 18" (457mm) PEDESTRIAN COUNTDOWN SIGNAL HEAD   |          |          |
| PUSHBUTTON DETECTOR  |          |          |
| SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.   |          |          |
| GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (HH), CONTROLLER (C), SERVICE (S), POST (P), OR MAST ARM POLE (MA).        |          |          |
| FIBER OPTIC CABLE, NO. 62.5/125 MULTIMODE 12 FIBERS AND SINGLE MODE 12 FIBERS  |          |          |
| UNINTERRUPTIBLE POWER SUPPLY   |          |          |



**CABLE PLAN**  
NOT TO SCALE

| CCHD TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS |           |         |     |             |               |
|--|-----------|---------|-----|-------------|---------------|
| TYPE   | NO. LAMPS | WATTAGE |     | % OPERATION | TOTAL WATTAGE |
|  |           | INCAND. | LED |             |               |
| SIGNAL (RED)   | 14        | x 135   | 17  | x 0.50      | 119           |
| (YELLOW)   | 14        | x 135   | 25  | x 0.25      | 87.5          |
| (GREEN)  | 14        | x 135   | 15  | x 0.25      | 52.5          |
| ARROW  | 4         | x 135   | 12  | x 0.10      | 4.8           |
| PED. SIGNAL  | 0         | x 90    | 25  | x 1.00      | 0             |
| CONTROLLER   | 1         | x 100   | 100 | x 1.00      | 100           |
| VEHICLE DET.   | 10        | x 84    | 5   | x 0.05      | 50            |
| FLASHER  |           |         |     | x 0.50      |               |
| ENERGY COSTS TO:   |           |         |     |             | TOTAL = 413.8 |
| CALL CCHD FOR BILLING INFORMATION AT (312) 603-1730.             |           |         |     |             |               |
| ENERGY SUPPLY CONTACT: ComEd                                     |           |         |     |             |               |
| PHONE: (866)-639-3532  |           |         |     |             |               |
| COMPANY: ComEd   |           |         |     |             |               |

| ITEM  | UNIT | TOTAL |
|---|------|-------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION                 | EACH | 1     |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED               | EACH | 6     |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED               | EACH | 2     |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED                | EACH | 2     |
| SIGNAL HEAD, LED, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED | EACH | 2     |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM                        | EACH | 8     |
| REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT                            | EACH | 1     |
| LOAD SWITCH   | EACH | 6     |

COUNTY OF COOK  
DEPARTMENT OF HIGHWAYS

TRAFFIC SIGNAL INSTALLATION  
KEDZIE AVENUE AT 139TH STREET  
CABLE PLAN

COMPUTED: LMP APPROVED: \_\_\_\_\_ 20\_\_\_\_  
 DRAWN: LMP  
 CHECKED: FLW/RAJ

**CONTRACT 14-253-5FR**  
 FLOOD CONTROL PROJECT ON  
 MIDLOTHIAN CREEK IN ROBBINS, ILLINOIS (RE-BID)  
 LITTLE CALUMET RIVER WATERSHED  
**CCDOH KEDZIE AVE AND 139TH ST TRAFFIC SIGNAL CABLE PLAN**

Sheet Number:  
**R-018**

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