# FINAL IDOT PUMP STATION #25 HYDRAULIC REPORT (HR) APPENDICES (VOLUME TWO OF TWO)

**Route/Roadway:** 

Limits: Municipality/County: PTB Number: Job No: IDOT Pump Station #25 IL-43 Harlem Avenue and 95<sup>th</sup> Street From 79<sup>th</sup> Street to Stony Creek Bridgeview/Cook County 154/020 Work Order No.12 MCI #2099

E

### **Prepared For:**

**DIST. ONE - DESIGN** 

DEC 212012

CE



DISTRICT ONE HYDRAULICS SECTION BUREAU OF PROGRAMMING IDOT- DIVISION OF HIGHWAYS

### **Prepared By:**



Mackie Consultants, LLC 9575 W. Higgins Road, Suite 500 Rosemont, IL 60018 (847)696-1400 www.mackieconsult.com

Dated: August 15, 2012 Revised: November 21, 2012

#### APPENDIX

#### **VOLUME ONE**

#### Appendix A — Field Survey Notes

Topographic survey of Detention and Miscellaneous Areas, prepared by Robert E. Hamilton Consulting Engineers, Inc., dated April 14, 2012. *Electronic Copy Via CD-ROM* 

### Appendix B — Copy of Selected Reference Materials

A - Village of Bridgeview, Southfield Neighborhood Storm Sewer Atlases. Received May 31, 2012;

B - Village of Oak Lawn, Storm Sewer Atlases. Received May 31, 2012;

**C** - Copy of report titled "Stormwater Management Plan, Village of Bridgeview, for the Area Between 87<sup>th</sup> Street and 95<sup>th</sup> Street and Harlem Ave. and Tri State Tollway." Latest revision date April 1988, prepared by Robinson Engineering;

**D** - Copy of report titled "Village of Bridgeview, IL Tri-State Industrial Park Storm Sewer, Southfield Subdivision Outlet and Central Detention Pond Drainage Study." Latest revision date May 2003, prepared by Robinson Engineering;

### **VOLUME TWO**

#### Appendix B Continued — Copy of Selected Reference Materials

E - Illinois State Toll Highway Authority, Contract GRE-84-317R, plan sheets 2, 11, 47, 48, 49, 50 and 55a of 155, prepared by Jack E. Leisch & Associates, latest revision date 7/30/89;

**F** - Village of Bridgeview, General Drainage Plan — South of 95<sup>th</sup> Street & West of Harlem Avenue, record drawing, dated 1-20-97, prepared by Hoefferle-Butler Engineering, Inc. 1 plan sheet;

**G** - Village of Bridgeview, Construction Plan & Profile — Octavia Avenue, as-built plans prepared by Hoefferle-Butler Engineering, Inc., dated 2-17-92, sheet 3 of 7;

Village of Bridgeview, Construction Plan & Profile — Odell Avenue, as-built plans prepared by Hoefferle-Butler Engineering, Inc., dated 2-17-92, sheet 4 of 7;

Village of Bridgeview, Construction Plan & Profile — 93<sup>rd</sup> Street, as-built plans prepared by Hoefferle-Butler Engineering, Inc., dated 2-17-92, sheets 3 and 4 of 6;

H - Illinois Department of Transportation PTB 146 / 10-Work Order No. 20. IL 43 (Harlem Avenue) from 95<sup>th</sup> Street to 105<sup>th</sup> Street (near Stony Creek). Storm Sewer Televising Memorandum, prepared by Hey and Associates, latest revision date August 9, 2011. *Electronic Copy Via CD-ROM* 

# **APPENDIX B CONTINUED**

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# COPY OF SELECTED REFERENCE MATERIALS

C. C. MANNO

## Hev and Associates, Inc.

Water Resources, Wetlands and Ecology

26575 W. COMMERCE DRIVE, SUITE 601 VOLO, ILLINOIS 60073 PHONE (847) 740-0888 FAX (847) 740-2888

MEMORANDUM RECEIVED

ALS 11761

DISTRICT #1

Mr. Santos Batista

FROM: Michael Farrell Tom Polzin P.E. CFM

DATE: August 9, 2011

OIG ANIC DE ANIC RE: IDOT PTB 146/10-Work Order No.20 IL 43 (Harlem Avenue) from 95<sup>th</sup> Street to 105<sup>th</sup> Street (Near Stoney Creek)

**PROJECT NO.** 08009S

To:

Wednesday June 29, 2011 and Friday July 1, 2011

American Underground (AU) and Michael Farrell of Hey and Associates, Inc. met at the northeast corner of Harlem Ave. and East Frontage Drive (approximately 98th Street) to televise and lightly clean IDOT's storm sewer in Harlem Ave., from pumping station 25, located on the southwesterly ramp connecting Harlem Ave. with 95th St., to the outfall on the easterly side of Harlem Ave. at Stoney Creek (approximately 105th Street). Mr. Farrell of Hey and Associates was onsite to provide documentation, digital photographs and to verify the depths of the recovered manholes.

The attached Exhibit A is a time line of all activities, and Exhibit B shows the sewer location and manhole numbering system and Exhibit C lists the depth of the recovered manholes.

Our first operation was to identify the IDOT sewer manholes. A search did not locate manholes #4 and #10.

All manholes and pipes were found to be clean and unobstructed except between manholes #1 and #2. The televising of this length of the sewer pipe was first attempted moving north from manhole #2 and was halted at a distance of 375 feet by what AU described as roots, a subsequent attempt moving south from manhole #1 was also stopped in the same manner, at a distance of 113 feet from manhole #1. These roots do not fill the entire pipe but only prevented the camera from passing through. At this time, in this reach, there is some portion of the pipe which is not televised. The distance, protracted from plans, between manholes #1 and #2 is approximately 830 feet and the total length televised in this pipe was 488 feet.

The televising of the balance of the sewer system proceeded without problems or interruption and no cleaning was required.

ADDITIONAL OFFICES IN CHICAGO AND AURORA, ILLINOIS AND BROOKFIELD, WISCONSIN

Client's Name: IDOT PTB 146/10-Work Order No.20 Date: August 9, 2011 Page 2

Tuesday, August 2, 2011

American Underground (AU) and Michael Farrell of Hey and Associates, Inc. met at the intersection of 96<sup>th</sup> Street and W. Avon Ave. in the Village of Oak Lawn. The purpose was to complete the storm sewer televising between manholes #1 and #2.

During the first attempt to televise between MH#1 and MH#2 the camera was halted by roots blocking the bottom of the pipe. In this operation, on August 2, 2011, the camera was inserted into the sewer pipe at MH#1 accompanied by a worker from AU. This worker, using hand tools, cut away the roots as the camera proceeded along the storm sewer pipe. The four or five root masses encountered were large enough to impede the camera, but did not block the pipe in any significant way. Once the path had been cleared, the camera was returned to MH#1 and the televising of the pipe to MH#2 was recorded.

AU produced a report and provided a digital copy of the televised recordings, both of which are attached to this memorandum. In addition, a CD with all digital photos taken is also attached.

ADDITIONAL OFFICES IN CHICAGO AND AURORA, ILLINOIS AND BROOKFIELD, WISCONSIN

## Exhibit A

Televising of Storm Sewer in Harlem Ave. South of 95th St.

June 29-2011

- 8:00 Meet with American Underground at the northeast corner of Harlem Ave and East Frontage Dr.
- 8:05 Walk north with the American Underground to locate manholes, at this time we can not find MH #2, #1 or #10 and find #11 within the enclosure around Pumping Station #25
- 8:40 Back at the Corner of Harlem Ave and East Frontage Dr.
- 8:45 American Underground set up to televise from MH#3, which is found clean and free of debris
- 9:15 The camera begins to travel north through the 72" pipe.
- 9:50 The camera reaches MH#2 at 610ft north of MH#3
- 10:10 The camera continues north from MH#2 and reaches a root ball and is stopped
- 10:25 Wheel of 610ft from MH#3 and locate MH#2 on the surface
- 10:45 American Underground recovers the camera and turns it south to televise the section between MH#3 and MH#4
- 11:08 At 745ft south the camera reaches MH#4
- 11:10 Wheel off 745ft south from MH#3 and do not find MH#4 on the surface
- 11:40 American Underground recovers the camera
- 12:10 Locate MH#5 on the surface and set up to televise.
- 12:18 Begin televising north to MH#4, reach MH#4 at 550ft, make one last check and do not find MH#4 on the surface
- 12:45 recover camera and begin televising to south to MH#6
  - 1:11 Reach MH#6 at 814ft, walk to MH#6 and find that the camera as rigged will not fit through the offset rim. American Underground unplugs the camera from the cable and recovers the cable leaving the camera at MH#6
  - 1:50 American Underground moves the equipment van to MH#6 reconnects the cable and begins television south to MH#7
- 2:29 Reach the maximum cable length at 1295ft, stationing indicates the distance to MH#7 is 1385ft, start retrieval of the camera.
- 2:57 finish recovery of the camera, and pack up for the day
- 3:05 Leave site

### July 1-2011

- 8:00 Meet American Underground at pumping station 25 on the southwest ramp connecting Harlem Ave. with 95th St.
- 8:15 Call IDOT and find that due to a miscommunication IDOT is not here to open the gate, we move to MH#1
- 8:30 Locate MH#1 and set up to begin televising
- 8:45 Camera is rigged and lowered into MH#1
- 8:55 Begin televising south to MH#2
- 9:03 Camera reaches a root ball and retrieval begins
- 9:09 Begin televising west to MH#10
- 9:29 Reach MH#10 and continue west
- 9:50 Reach MH#11 at pumping station 25 and begin retrieval of the camera

## Exhibit A

- 10:25 Meet with IDOT personal at pumping station 25 and measure depth of MH#11
- 11:00 Locate MH#8 and set up to begin televising south to the outfall at Stoney Creek
- 11:30 The camera is recovered and turned north to televise to MH#7
- 12:15 Reach MH#7 and continue 100 ft north to close out the run between MH#6 and MH#7
- 12:35 The camera is recovered and American Underground packs it up
- 12:50 leave site

8/2/2011

- 7:05 Speak with IDOT representative, who verified the shutdown of pumping station No. 25.
- 7:55 Meet American Underground on site, at the intersection of 96th St. and W. Avon Ave. in Oak Lawn.
- 8:00 American Underground prepares the camera for televising.
- 8:25 The camera is inserted into the sewer at MH#1 and it travels north through a 72" pipe.
- 8:40 The camera encounters a root mass and a member of the American Underground crew enters the pipe to clear the way.
- 9:00 The crewman exits the sewer to get more cleaning tools.
- 9:20 Crewman re-enters pipe and continues cleaning.
- 9:40 Some debris is removed from pipe.
- 10:50 Finish clearing roots.
- 10:58 Pull camera back to MH#1.
- 11:00 Begin televising run from MH#1 to MH#2.
- 11:30 Reach MH#2.
- 11:45 Remove camera from pipe at MH#1.
- 12:00 American Underground packs up and leaves site.
- 12:05 Contact IDOT representative to reactivate pumping station No. 25.
- 12:10 Leave site.

# Exhibit C

Manhole Number	Depth (Ft and Decimals)
1	11.70
2	15.40
3	16.33
4	Not Found on the surface
5	12.25
. 6	12.00
. 7	10.82
8	9.95
9	Outfall at creek
10	Not Found on the surface
11	12.25

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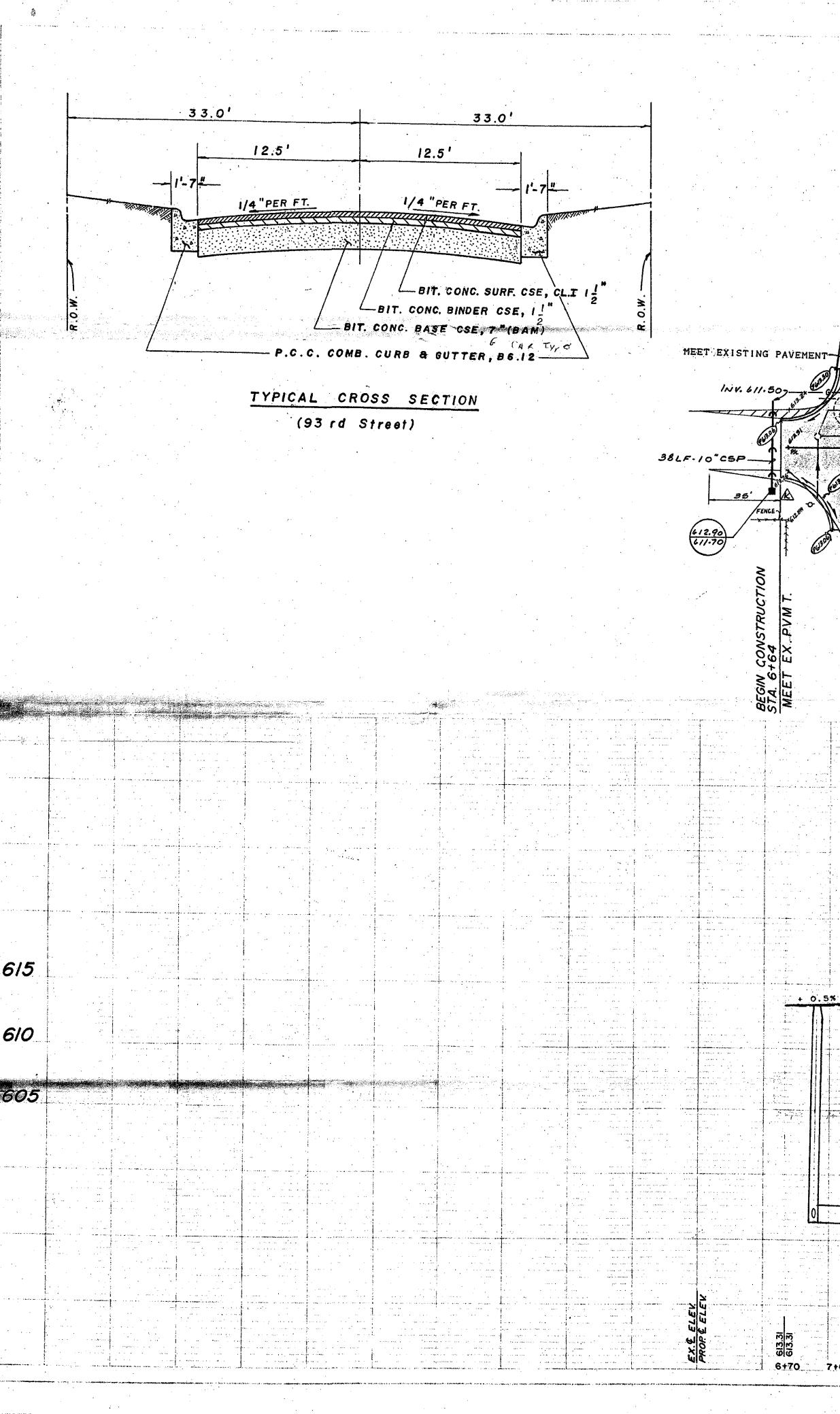
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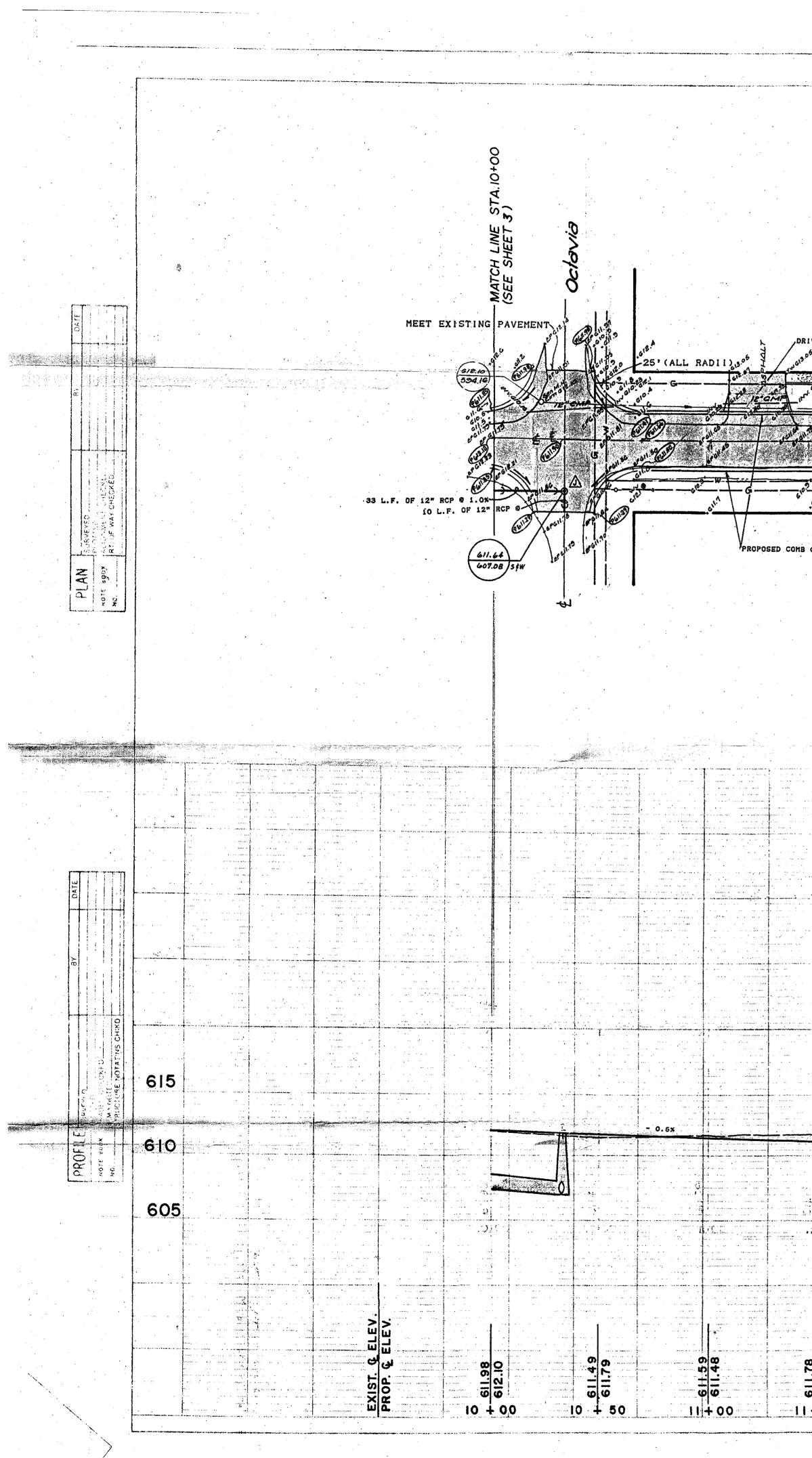
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SCHEDULE OF STRUCTURES

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SYMBOL	LOCATION	TYPE
	12+16, 11.5' LEFT	INLET, TYPE A, TYPE 1, FRAME & OPEN LID
Æ	12+16, CENTER LINE	MANHOLE, TYPE C, TYPE 1, Frame & Closed Lid
A	12+16, 11.5' RIGHT	INLET, TYPE A, TYPE 1, FRAME & OPEN LID
	15+06, 11.5' LEFT	INLET, TYPE A, TYPE 1, FRAME & OPEN LID '
A	15+06, CENTER LINE	MANHOLE, TYPE A, TYPE 1, FRAME & CLOSED LID
	15+06, 11.5' RIGHT	INLET, TYPE A, TYPE 1, Frame & Open Lid
	10+32, 24' RIGHT	MANHOLE, TYPE A, TYPE 1, FRAME & CLOSED LID

615

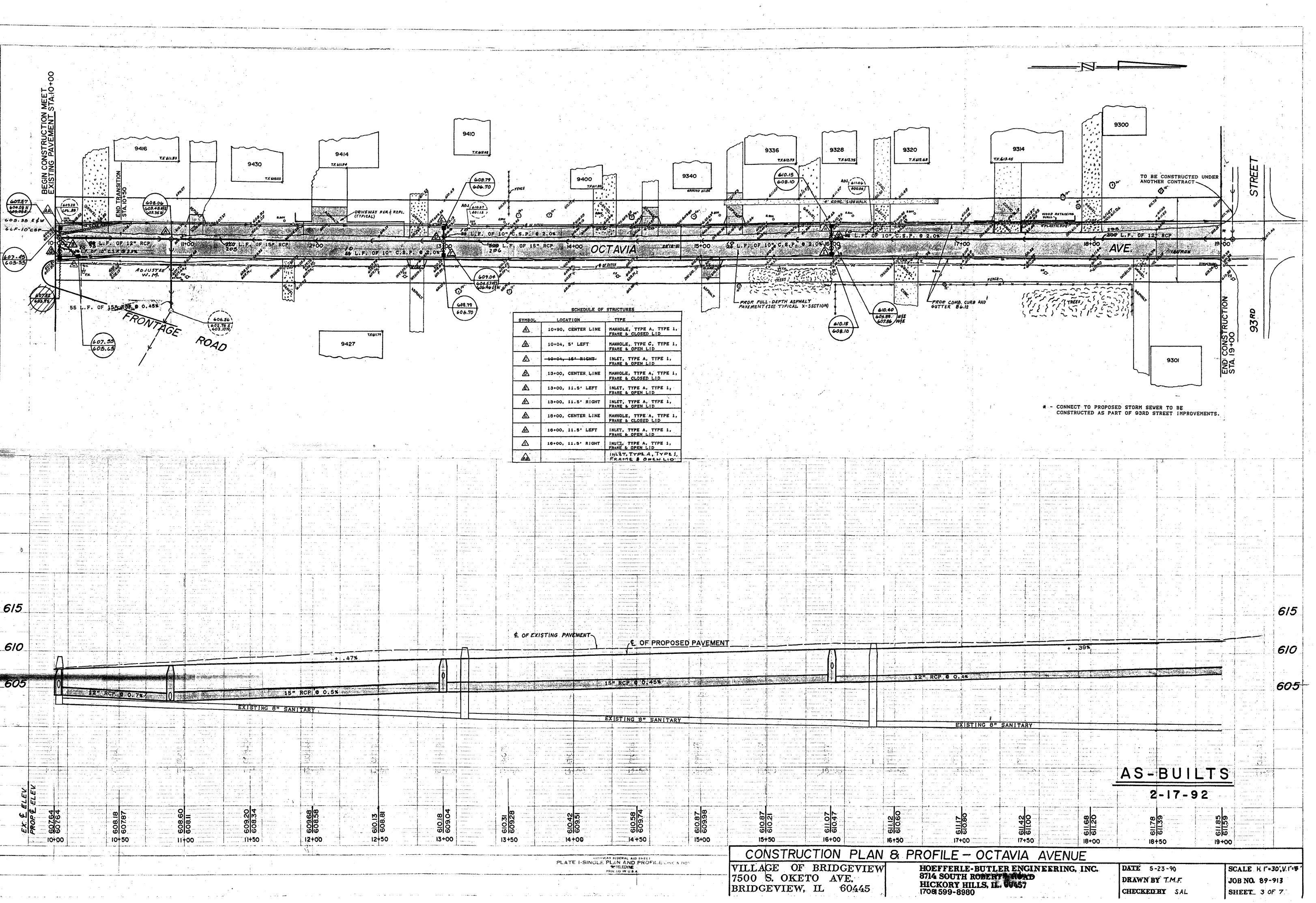
610

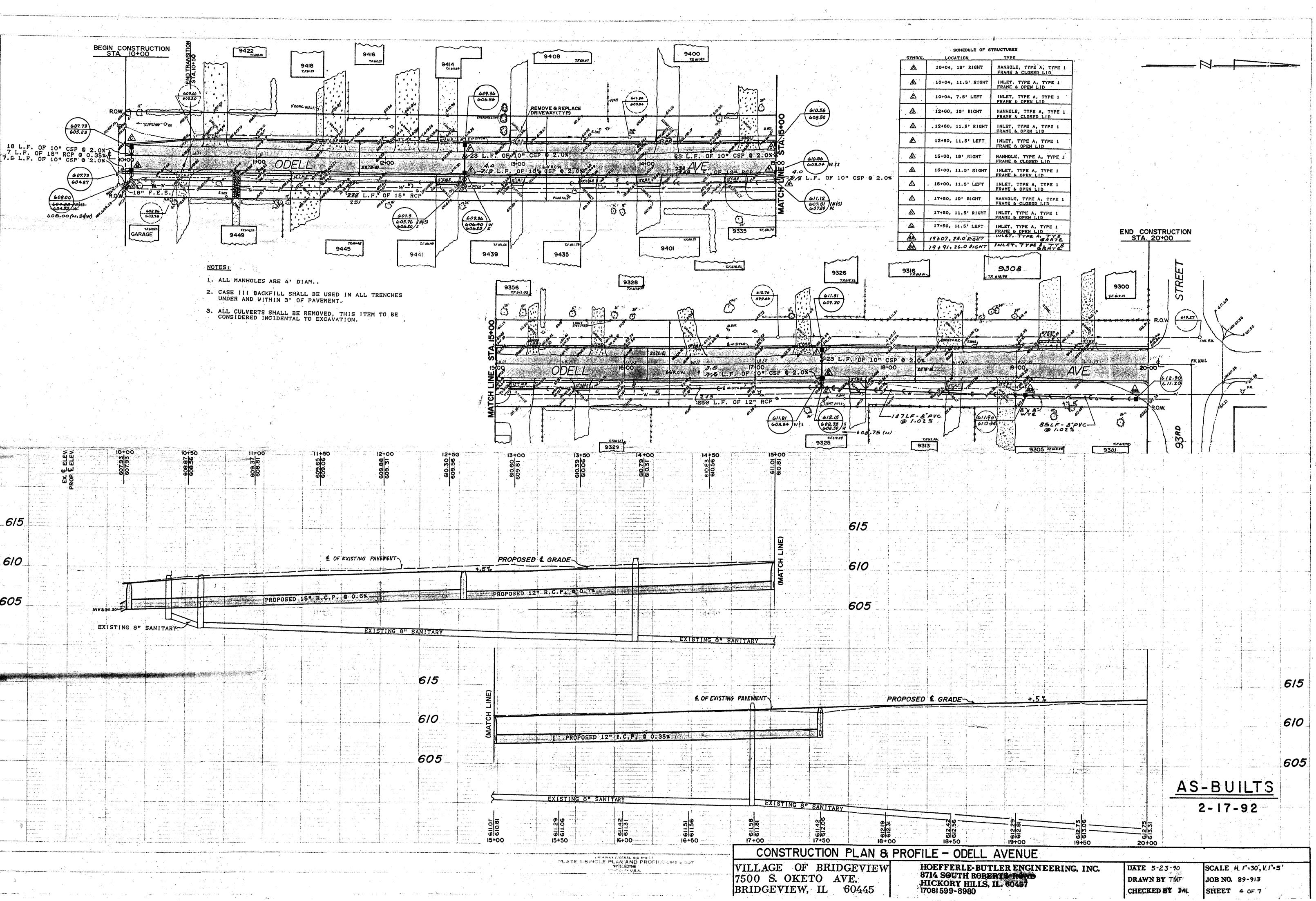
605

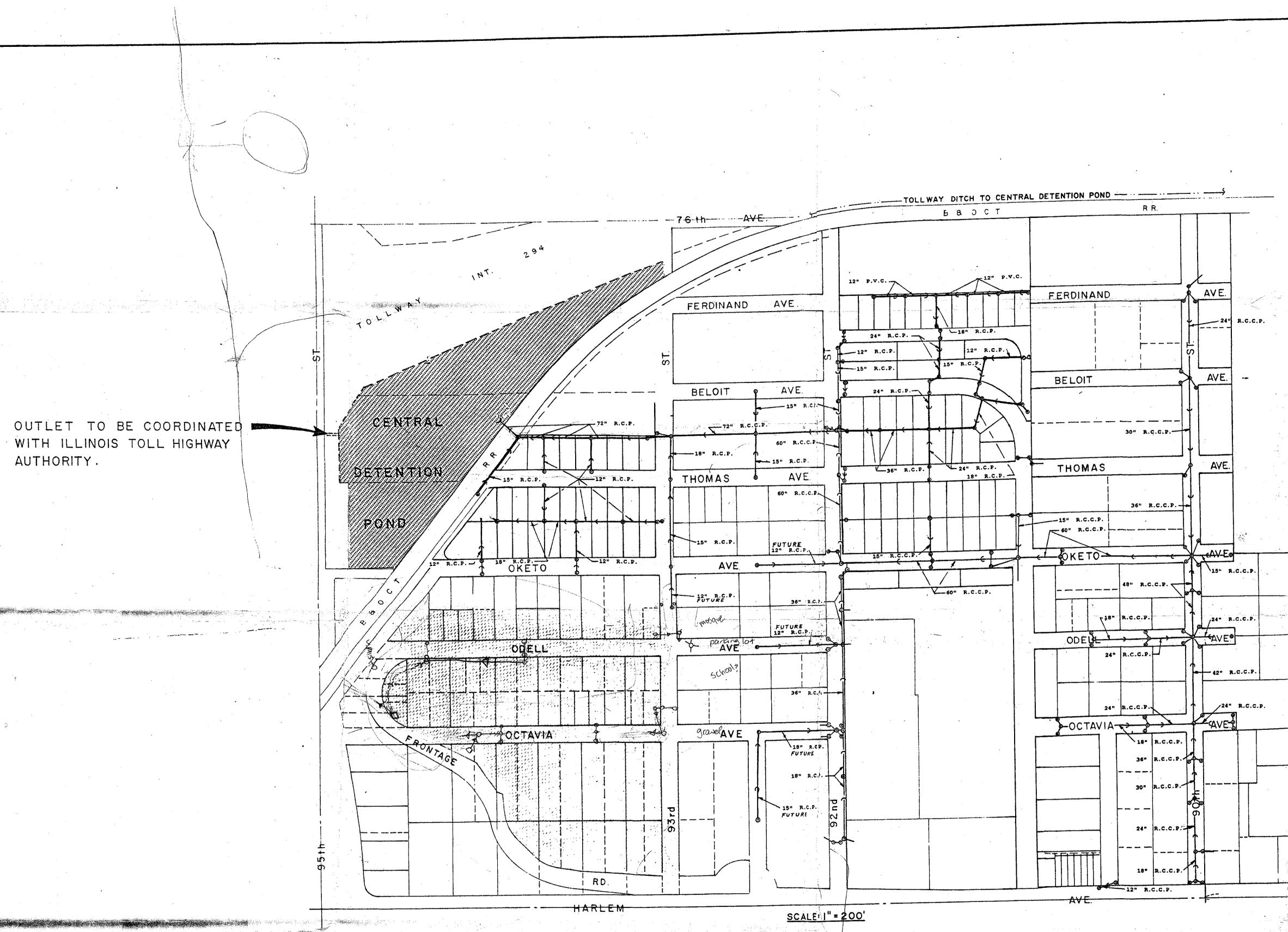
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AS-BUILTS

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AREA NOT INCLUDED TRIBUTARY TO EXISTING STORM SEWER SYSTEM

DETENTION POND AREA

DITCH TO TOLLWAY SCALE: |"=400' RECEIVED JUL 0 5 2001 DISTRICT #-True copy of plans on file with Metropolitan Water Reclamation District of Greater Chicago Sewerage Permit 94-016--- 1975' +/- ---AS-BUILI DATE RECEIVED 1/22/97 LOG NO. ES97-006 3. BIJ 33363 REGISTERED FR. 755SIONAL ENCIMEER -20-97 Engror (1-30-57 Date: /-20-97 Drn. TMF Ckd. JJB GENERAL DRAINAGE PLAN-SOUTH OF 95th ST. & WEST OF HARLEM AVE. HOEFFERLE - BUTLER ENGINEERING, INC . 8714 SOUTH ROBERTS ROAD HICKORY HILLS, ILLINOIS 60457 [708] 599-8980 Scale: VILLAGE OF BRIDGEVIEW 7500 S. OKETO AVE. BRIDGEVIEW, ILLINOIS 60445 JOB NO 97-900 Sheet 1 Of 1

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<ul> <li>- RANT C, PLANE BLEATIONS STA B4+16 TO STA 35+20</li> <li>- RANT C, PLANE BLEMATION STA B4+16 TO STA 35+20</li> <li>- RANT C, PLANE BLEMATION STA 35+0.5 TO STA 35+0.2</li> <li>- RANT C, PLANE BLEMATION STA 35+0.5 TO STA 35+0.2</li> <li>- RANT C, PLANE BLEMATION STA 35+0.5 TO STA 35+0.2</li> <li>- RANT C, PLANE BLEMATION STA 35+0.5 TO STA 35+0.2</li> <li>- RANT C, PLANE BLEMATION STA 35+0.5 TO STA 35+0.2</li> <li>- RANT O FLANE BLEMATION STA 35+0.5 TO STA 35+0.0</li> <li>- RANT O FLANE BLEMATION STA 35+0.5 TO STA 35+0.0</li> <li>- RANT O STA 3+0.0</li> <li>- RANT O STA 3+0.0<td></td><td>92 .</td><td>- RAMP CI GENERAL PLAN &amp; ELEVI</td><td></td><td>SUPPLEMENTAL</td><td>SEQUENTIAL FLASHING ARROWS</td><td></td></li></ul>		92 .	- RAMP CI GENERAL PLAN & ELEVI		SUPPLEMENTAL	SEQUENTIAL FLASHING ARROWS	
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191       -RANF D STA 3 + 00 TO STA 4 + 65       FENCE MOUNTING DETAILS         SLOPED HEADWALL       STOPED HEADWALL       DOUBLE DUCKING THE LIGHT CONSULT THE DATE OF SLOPED HEADWALL         DOUBLE BUX CHAPTER STREAMS TOR SLOPED HEADWALL       DOUBLE BUX CHAPTER STREAMS TOR SLOPED HEADWALL         DOUBLE BUX CHAPTER STREAMS TOR SLOPED HEADWALL       DOUBLE BUX CHAPTER STREAMS TOR STA 3 - 00 MILE LINE CHEPAN FLAM         103       DOUBLE BUX CHAPTER STREAMS TOR STA 3 - 00 MILE LINE CHEPAN FLAM         104-105       DOUBLE BUX CHAPTER STREAMS TOR SAVE TO THE MADE SECTIONS         106       DOUBLE BUX CHAPTER STREAMS TOR SAVE TO THE CHAPTER SAVE TO THE SAVE TO THE CHAPTER SAVE TO THE SAVE TO TH		÷ -	MISCELLANEQUS DETAILS	ETAILS STA. 4+20.09 TO STA 3+10			
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ANNORA, BLANNES AND ANNORA, BLANNES AND ATTR: NR. DON CLEON STRUME REAL ESTATE AGENT SÐ 2 SD 4 CURB, CURB & GUTTER AND CONCRETE FLUNE NUMBLE TYPE 1 AND INLETS TYPE 01 THRU 03 STANDARD INLETS TYPES D-4 THROUGH D-6 STANDARD DITCHES, PAVED DITCH, DITCH CHECK, AND DITCH DIKE SD 87-4A TELEPHONE: (312) 355-8000 SO 86-54 SO 86-58 TELNS CASTEIN PRODUCTS POPELINE COMPANY P.O. ON 425 SETURE, INDEAN 47274 ATTN: UR. NOBERT STRUCTURE TELEPRINE: (#22) 522-2569, 2710, CR 3715 SD 86-6 SD 87-7A STANDARD SLOPENALLS AND HEADMALLS SD 86-88 SD 86-86 SD 86-9 SD 86-9 SD 86-9 SD 86-116 SD 80-116 SD 80-116 RIGHT OF WAY FENCE TYPE 1 AND 2 RIGHT OF WAY FENCE INSTALLATION DETAILS SD 80-88 RIGHT OF MAY FENCE INSTALLATION DETAILS SD 80-90 MAPPING STUDDED MARKERS SD 80-90 MAPPING STUDDES, NONUMERTS & MARKERS SD 80-11A STANDARD PROTECTIVE DEVICES SD 80-11A STANDARD CONSTRUCTION SIGN I SD 80-11B STANDARD CONSTRUCTION SIGN II SD 80-11C STANDARD CONSTRUCTION SIGN II SD 80-128 GUANDRAIL DETAILS SD 80-128 GUANDRAIL TERMINAL TYPE 1 SD 80-148 WEADMALL TYPE WE SD 80-147 GOATES FOR SLOPED WEADMALLS PEDPLES GAS LIGHT & CREE COMPANY 122 South Michigan Ave., Adam 1732 Attn: W. Jenky Velsin Supervisory Engineer Telepune: (312) 431-4718 VILLIAGE OF ORIDOEVVEN 7500 SINTE OCEID ANEMIE BRIDGEVIEN, ILLINDES COMES AVTR: R. H. REDINIST & ASSOCIATES CD. VILLAGE ENGINEERS TELEFUGIE: (312) 331-6/00 GRATES FOR SLOPED HEADNALLS SD 87-17 DELINEATORS CONCRETE MEDIAN DAMRIER AND PRECAST BARRIER TEMPONARY CONCRETE BARRIER TRANSITION END SECTION 50 84-18 SD 86-198 SD 82-19C VILLAGE OF HICKNEY HELLS STANDARD LANE CLOSURE DETAILS CATCH BASIN TYPE & AND SLOPE DRAIN INLET AND IC NORS DEPARTMENT BASS WEST 95TH STREET MICHINE WALLS, NA MARS TELEPARTE: (312) 430-4211 S0 83-20 S0 86-21C S0 86-228 S0 86-228 S0 86-228 S0 87-23 CONCRETE PAYENEINT REPAIR FULL DEPTH PAYENEINT REPAIR PARTIAL DEPTH BUTT JOINTS AND PRESSURE RELIEF JOINTS OVERNEAD TRUSS SIGN LIGHTING TYPICAL MIRING DETAILS GROUND HOLMITED SIGN BEACON MIRING DETAILS & DIAGRAM SIGN LUMINAIRE MOMNTING DETAIL - MIRING DETAIL & ELEC. #FORHEWENT STMERME 10. DURING PANENERIT NEPADE OPENNITHINS, THE CONTINCTOR SHULL TAKE RECESSARY PRECANTIONS. TO POWREET ADJACENT THATTIC LARES FROM DEDRIS BEING BLOWN OR OTHERWESE REMOVED FROM REPAIR ANEAS. THE CONTINCTOR SHALL ALSO BE RESPONSIBLE FOR REEPADE REDRIS OFF THE ADJACENT LARE THATELED SAWACES. 52 84-02 52 84-04 52 84-05 SIGN LUMENATRE NUMERING DETAIL - WIRING DETAIL & ELEC. REQUIDENENT SCHEDULE OVERHEAD SIGN STRUCTURE SPAN TYPE OVERHEAD SIGN STRUCTURE, SPAN TYPE - FOUNDATION OVERHEAD SIGN STRUCTURE, SIGN, CATURLK, AND LUMINATRE SUPPORTS LIGHT STANDARD CONCRETE BASE BOADMAY GRADE MOUNTED LIGHT STANDARD NELTRIX BASE GROUND MOUNTED LIGHT STANDARD INLIGE PARAPET HOUNTED BURIED WIRING BETAILS \* THIS WINK SHILL HE INCLOENTAL TO THE SPECIFIC REPAIR ON CONSTRUCTION ITEM. SS 83-1A SS 83-18 11. THE CONTINUENDE IS NEGRIAED TO GUIDADE ALL RECESSARY PERMITS AND WRITTEN ANTHORIZATIONS FROM THE VILLAGES OF BRADEVIEN AND MICHNEY MILLS, AND 1.0.0.T. FOR CONSTRUCTION ADDRE, ADDRENT TO AND ON ADDREATS WHER THEIR 55 80-3 RL 86-02 RL 86-03 RL 86-03 RL 86-05 RL 86-05 RL 86-05 JARISDICTION SEE S.P. 107. LIGHT STUNIERE MILINE PROPERTION TED BURIED WIRING DETAILS & Existing underground wiring nodification detail Parapet and wingnall conduit details Outdoor control console details 12. WAINTENNICE OF THATFIC: THE COMMACHER SHALL COMMENTATE WAINTENANCE OF TRAFFIC ON THIS PROJECT WITH UNKER PROJECTS IN ADJACENT SECTIONS. RL 86-07 RL 96-09 RL 86-09 TPE 86-02 TPE 86-03 TPE 86-04 OUTDOOR CONTROL CONSOLE WIRING DIAGRAM OUTDOOR CONSOLE FOUNDATION DETAILS

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13. QUMITITIES FOR THE FOLLOWING THEMS WERE ESTIMATED FROM ACTIVAL FIELD SURVEYS CONDUCTED WIRANG THE FALL AND WHITE OF 1984 AND STRING OF 1985. THE QUANTITIES SUBME ON THE FLAMS DECIME SINE ALLOWING FOR ANDITIONAL DETERSIONATION REFORE CONSTRUCTION/TAKES PLACE. ACTIVAL AMEAS OF REPAIR SMALL BE DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION.

SLOPE REPAIR TOPSON, SHILADONE FUEL REPAIR PARTIES PARTIAL, REPAIR PARTIES VEPARTS OFTEN CLEANING DETEN NESTANATION

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ACTUAL QUARTETEES WILL BE REASONED IN THE FIELP AS SPECIFIED.

14. ALL EXISTING SIGNING SMALL BE MADITAIMED IN PLACE UNTIL NEW SIGNING IS ENECTED. RENDML OF EXISTING SIGNING SMALL NOT PROCEED UNTIL DIRECTED BY THE ENGINEER. THE CONTRACTOR SMALL COVER EXISTING SIGNING TO PREVENT CONFUSION AS DIRECTED BY THE ENGINEER. THE COST OF THIS REQUIREMENT SHALL BE CONSIDERED INCIDENTAL TO MAINTENNICE OF TRAFFIC.

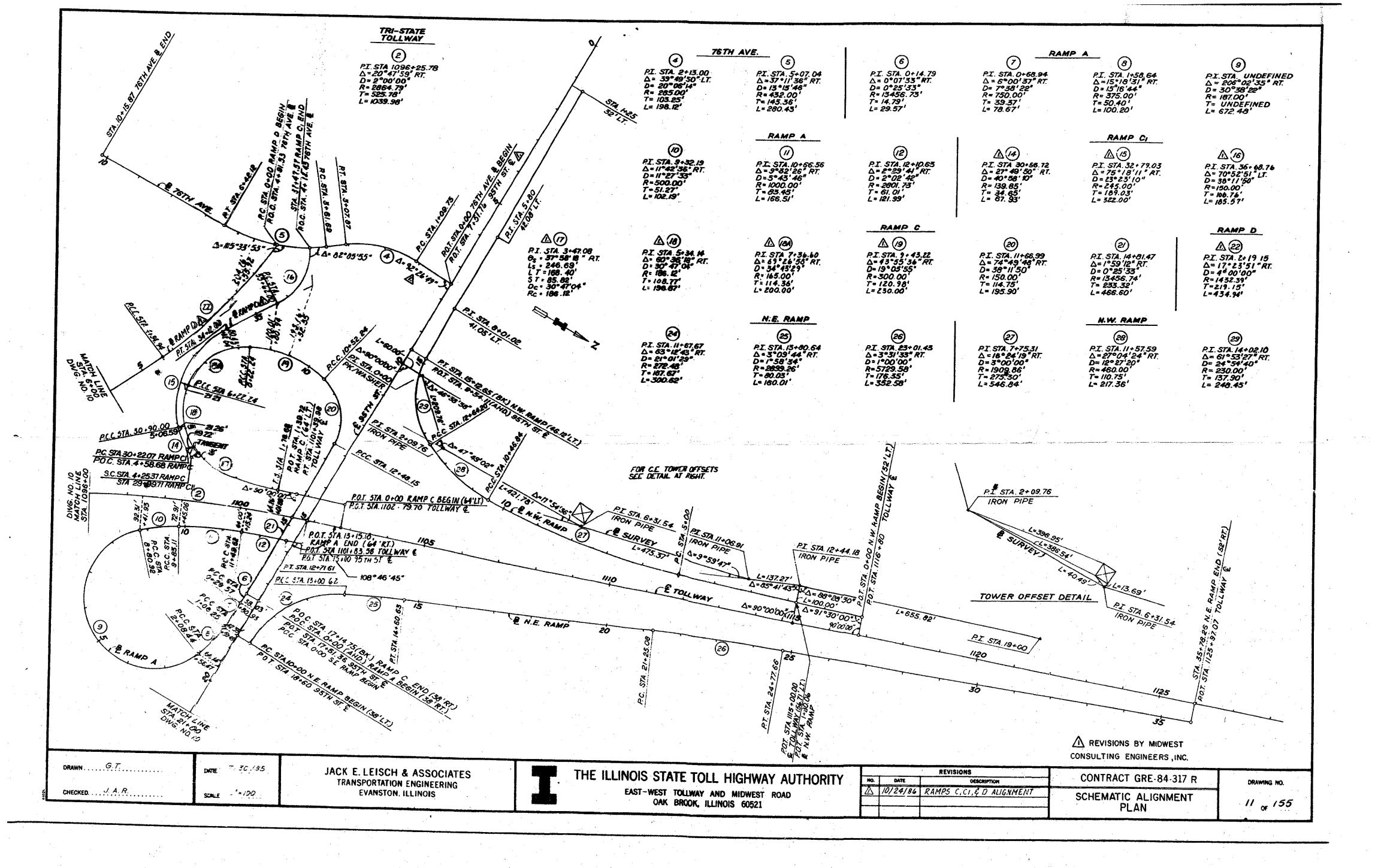
ABBREVIATIONS APPEARING IN DRAWINGS AND SPECIAL PROVISIONS

LOOP BETECTOR & FARE INDICATOR DETAILS ISLAND ELECTRICAL EQUIPMENT DETAILS INDOOR CONTROL CONSOLE DETAILS

ABOREVIA: ION AASHTU AMERICAN ASSOCIATION OF STATE HIGHNAY AND TRANSPORTATION OFFICIALS AGGREGATE ASTR AVERICAN SOCIETY FOR TESTING AND NATERIALS 811. CONC. 8.C.C.S.P. BITUMENOUS CONCRETE # BITUMENOUS COATED CORRUGATED STEEL PIPE CATCH BASIN C.8. C.E. CO. C.M.P. CONTINUEAL TH EDISON COMPANY CORRUGATED HETAL PIPE COTTOMICOD TREE C.W. CUBIC YARD CY DIAN. DIAMETER DRAWING 0**46.** EA E.N. EACH EDGES NEET E.O.P. EDGE OF PAVENENT EDISON AERIAL ELECTRICAL EDISON UNDERGROUND ELECTRICAL EAE EUE EXIST. EXISTING GALVANIZED STEEL PLATE BEAM GUARDRATL GALV. 5.P.8. SUARDRA1L FLOW LINE f.L. 1007 (1.0.0.T.) INV. EL. ILLINDIS DEPARTMENT OF TRANSPORTATION INVERT ELEVATION POUND 118. FF. (L.F.) LINEAR FEET LUMP SUM LS M.H. MANHOLE MAXIMUM MAX. H.E. HERGING END MIN. HINIMAN N.1.6. NORTHERN HELINOIS GAS **но.** Рум•т NUMBER PAVENENT PERFORATED BITUMINOUS COATED CORRUGATED P.8.C.C.S.P. STEEL PIPE. PORTLAND CEMENT CONCRETE P.C.C. PEOPLES GAS LIGHT AND COKE COMPANY P.G. PROP. PROPOSED RADIUS R. R.C.P. REINFORCED CONCRETE PIPE REINFORCED CONCRETE ELLIPTICAL PIPE SHLDR. SHLDR. S.P. S.S. S.E. S.F. SECTION SHOULDER SPECIAL PROVISION STORM SEWER SUPERELEVATION SQUARE YARD TYPICAL TEXAS EASTERN PRODUCTS PIPELINE COMPANY VARIES TYP. T.E.P. YAR.

A REVISIONS BY MIDWEST CONSULTING ENGINEERS, INC.

REVISIONS CONTRACT GRE-84-317 R TOLL HIGHWAY AUTHORITY DRAWING NO. MA DATE DESCRIPTION A 10/24/86 REVISED INDEX OF DRAWINGS 3/31/88 REVISED INDEX OF DRAWINGS INDEX OF DRAWINGS WAY AND MIDWEST ROAD 2 \$ 155 DK, ILLINOIS 60521 AND GENERAL NOTES



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	3. CONSTRUCT NO FOOT SHOULDES SEE DETAILS - DIVIS. NO. 16. 4. STA. 10+00 TO STA 12+00 200		Z'OVERI DELETER	AY CONTRACT
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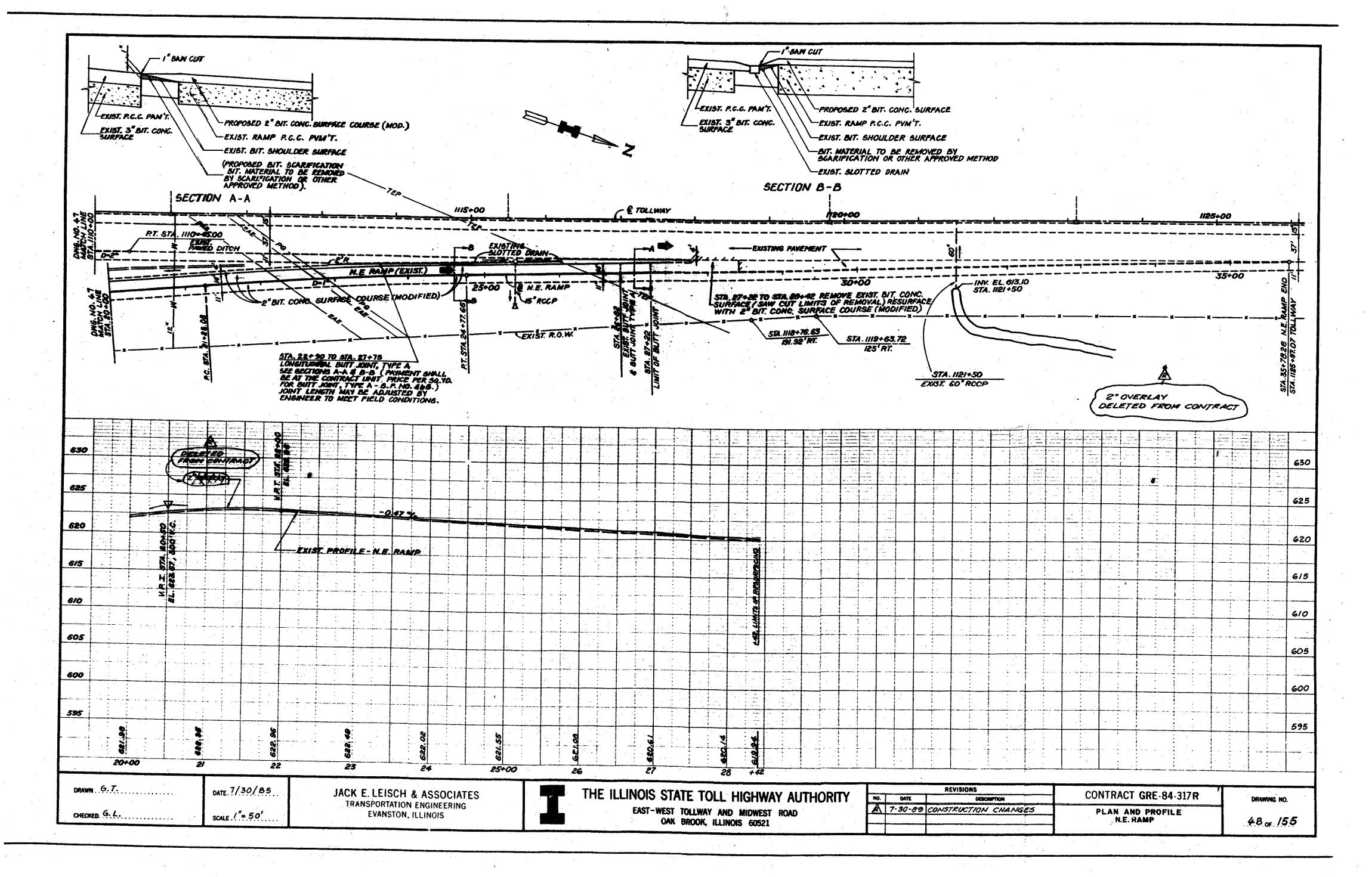
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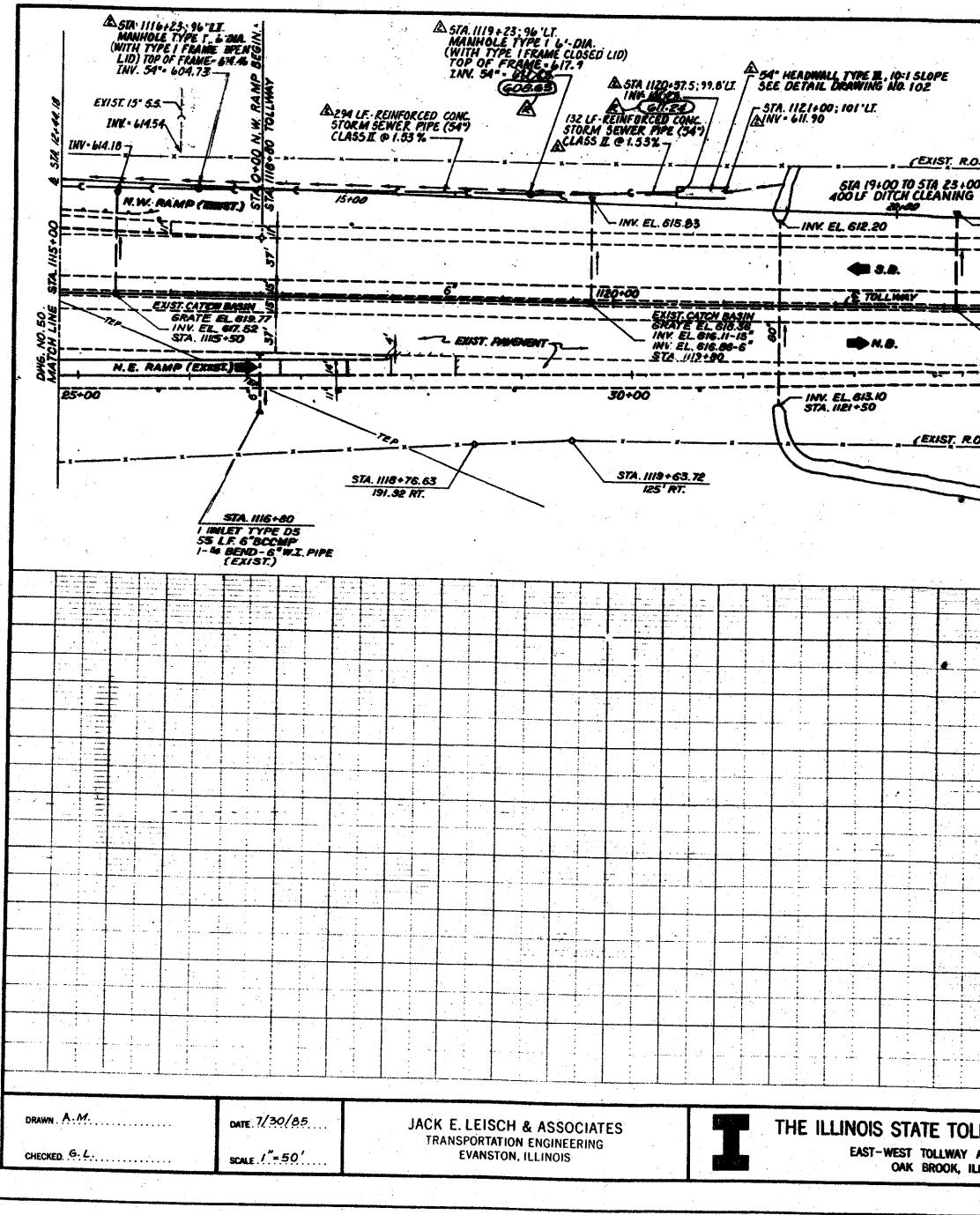
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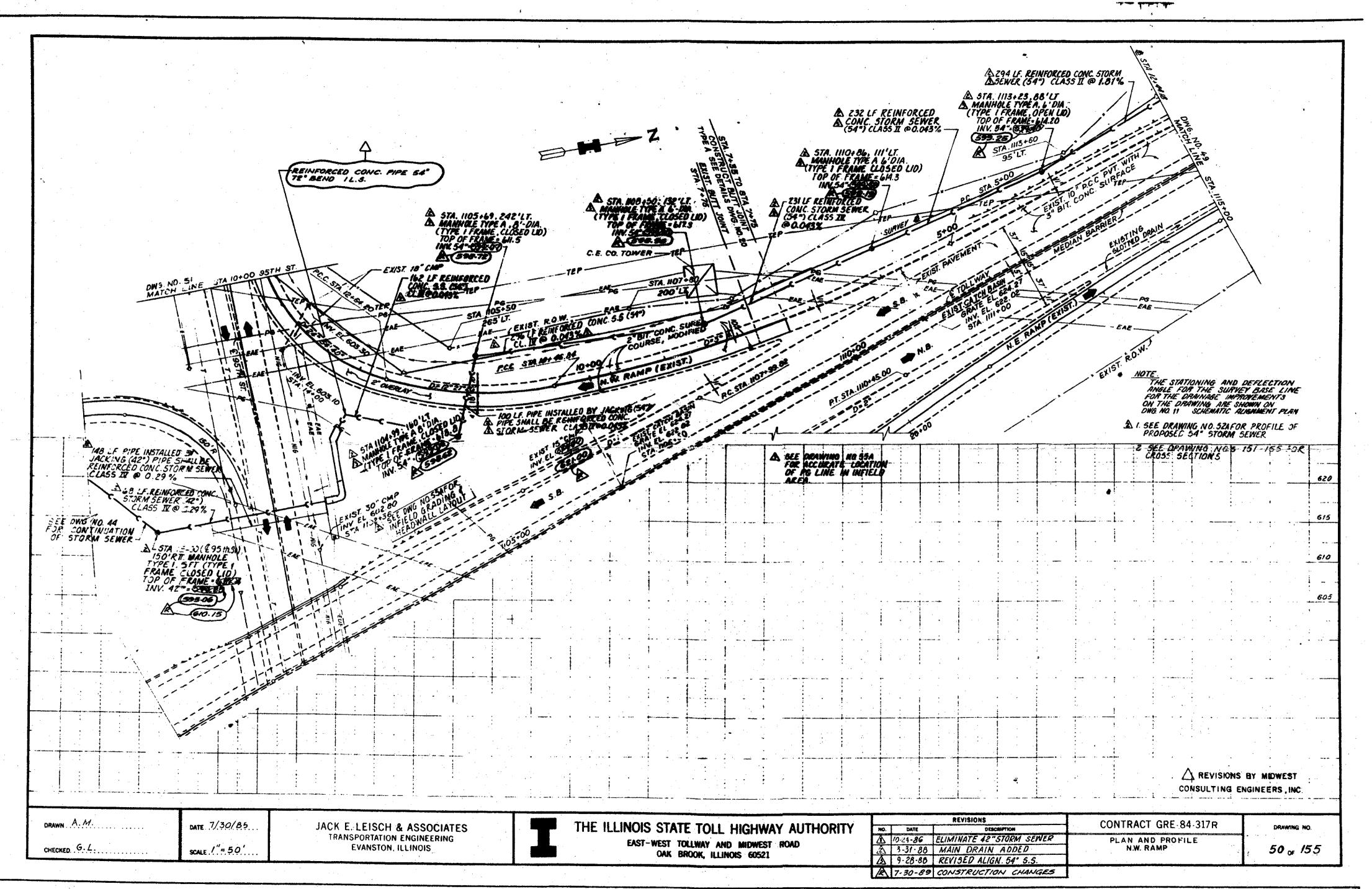


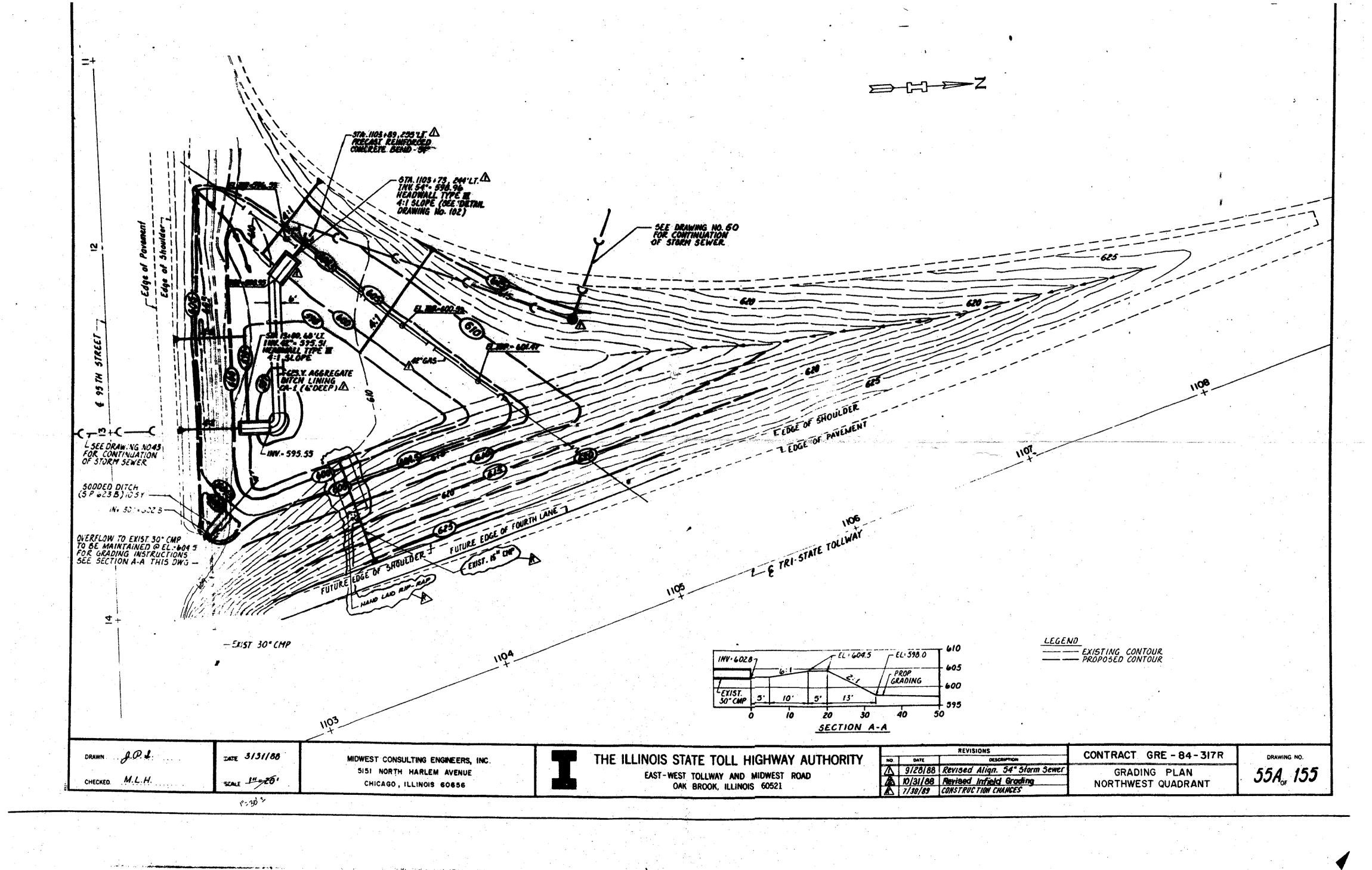
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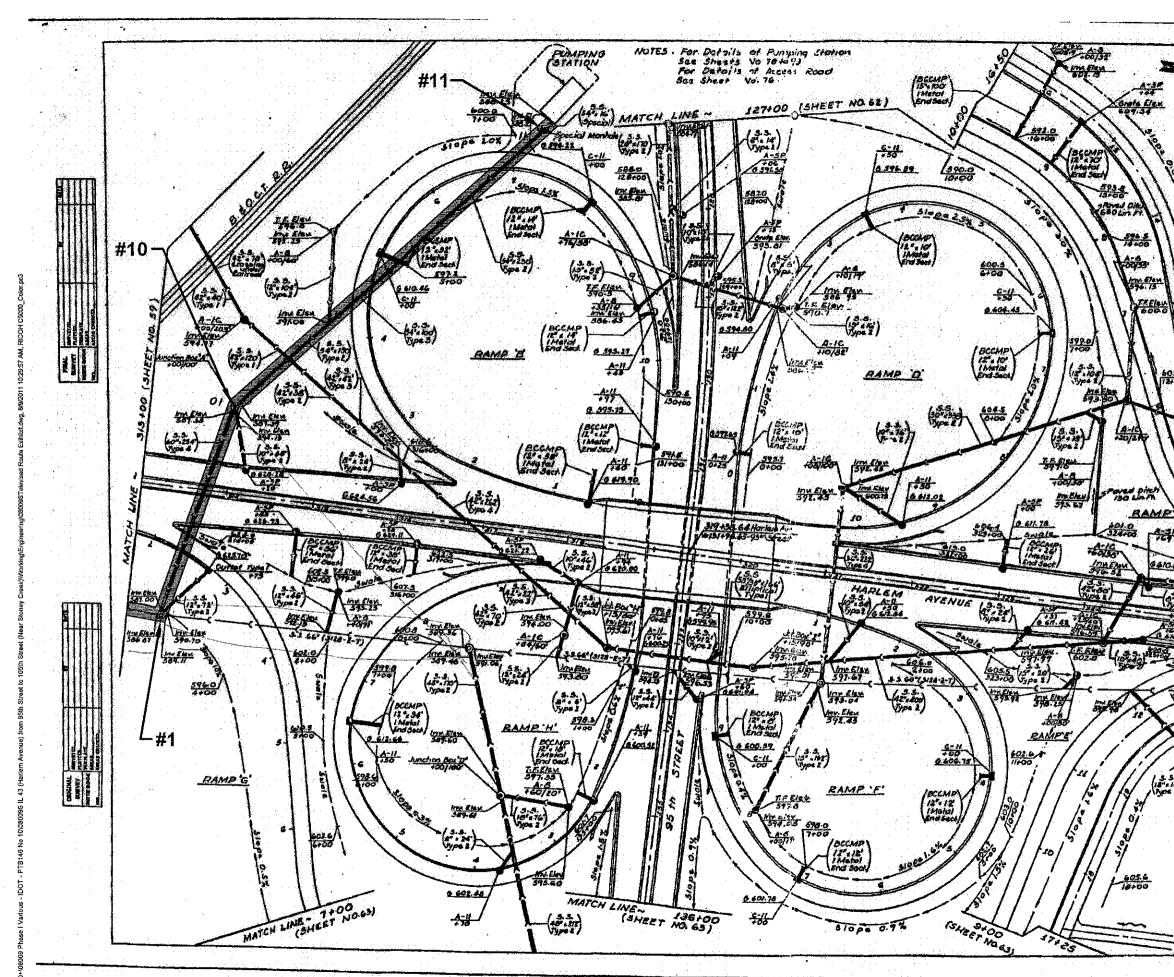
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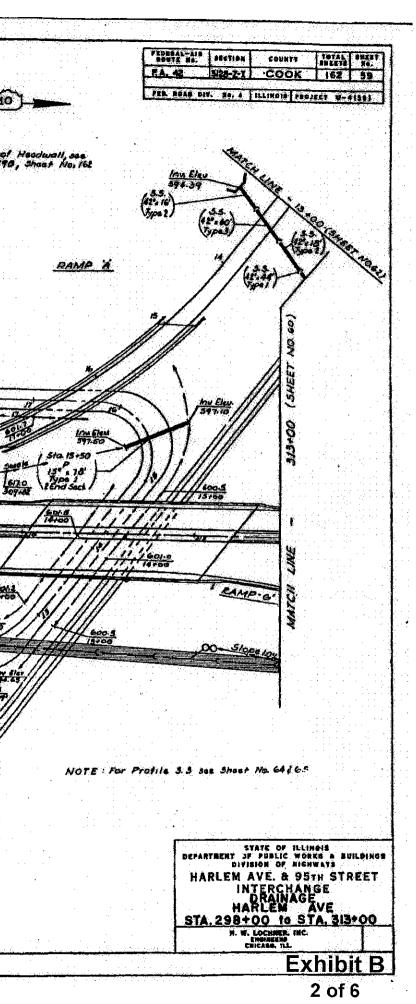
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. . PEDERAL-AID SECTION COUNTY TOTAL SHEET ັທີ KA. 42 3128-2-1 COOK 162 60 PER BOAD PIT. No. 4 [ILLINGIS | PARIECE . 8-4(38) NOTE: For Poved Ditch Detail see Detail Shaet No. 97 For Profile 3.3 See Sheete No. 64, 65,665 For Detail of Metail End Sections see Sheet No. 70 For Detail of Carch Basin Type D-T Speciel "I" see Sheet No. 63 For Detail of Junction Box "I" see Sheet No.74 For Detail of Junction Box "I" see Sheet No.74 For Detail of Junction Box "A" see Sheet No.70 For Detail of Junction Box "A" see Sheet No.70 For Detail of Special Manhole see Sheet No.89 For Detail of Special S.S. see Sheet No.89 For Detail of Special S.S. see Sheet No.89 14100 FRONTAGE AD. C (24 1313) 100 Elere. 9-1.30-11 -<u>A-3P</u> 4/0.03 (Zinse Vypaz) 10 Kg (10 - 4) (1) 100 El **G**019 177 Eleve 15.Elevesiope 9.4% 0 610 13 <u>+ 6/0,35</u> A-3P 001-20 <u>A-5P</u> +70 (13 S )-(13"+ 110")-(7505 (3.3 (01.35 (5)01.35 FRONTAGE RO. E STATE OF ILLINGIS DEPARTMENT OF PUBLIC WORKS & BUILDINGS Division of Highways HARLEN AVE. & 95TH STREET INTERCHANGE DRAINAGE~HARLEM AVE. 8 95th ST. STA. 313 + 00 to STA. 328 + 00 STA. 127+00 to STA. 136+00 N. W. LOCHNER, INC. ERGINEENS CNICAGO, ILL NEYA AVE. Exhibit B 1 of 6

5 . . . NOTE: For Details of Headwall, see Standard 1998, Sheet No. 162 Footer STA. (1) - 10) 577.3 10 PA 4.0% Ine Elaya 594-61 5976 199.3 610ps 0.4% 3 13.3 510pe 0.5% ş 310 pa 2.07 510pa 0.5% A:/6 A 16013 <u>K. I/ev</u> 3. J a 594:4 579.0 (\*\*\*\*\*) (\*\*\*\*\*\*) (\*\*\*\*\*\*\* 557 1012-70 612.90 hr Ek. 1004 Elen 0 693 03 \<u>A-58</u> 0.509.09 A:50 0 6/7.65 4-30 ( 3.5 ( 7,00 ( 7,00) (3) 4 613 39 1-12 (\*\*\* ..... 4,5 (10 - 30 Vype 2) 4-2E 4-50 6 610.21 HARLEN AVE A-5P 710 Mar Sta A+57 +70 2.603.94 Cocores (\*\*\*), a sizn ( 23 ( 200) 61.6.92 1-3F 6 Lot A 4:55 ( 3 4 4 4 ) ( 3 4 4 4 ) Int Fier Int Fier 11. Eleve 11.00 AL.30 12 200 MELLE STAN 40/51 -36/6 12 - 12 Vyp 56.6 61000 100 Elga 18 .14 (15.5. (10" + 74 (7) Paj 310pa 0.5% 51000 0.3% 1 NJ 3435100 / <u>600.0</u> SIOP 6 3% dorer. SERVICE ROAD (13.3.) (12.4.76) (19.4.2) NA-16 -15/162" 600.0 11+00 T.E. Elev 599.1 111 En 1 10 E 11 112 #2 PUANS - . 20 3 (2) 40) INV 516.00 (PLANS - 0,38)



. . • Annual Annua IMPROVEMENT BEGINS PROVECT U-4(58) STATION 290+44 A-16 374/53 45.) 4116 Spall A-16 +00/35 A-5P +20 (10" A.16 24<sup>1</sup>:370 Type 8 how Elev 6 596.63 My Eleve 593.21 1778 Elev 592.15 1.0, W. Existing to Gas Moin ? 0 600.31 0.379.54 <u>A-50</u> 848 400 -----ويتع الداد STR.15 A-5P HARLEN AVENUE 234 295 10.0 (x0'. II) 103. A. PON Eleve 735 155.72'(3216-2-7) socal great to vallay 510pt 0.4% (3.1 (3' / 5' Type 2) 2 6 IN 99 51 118+00 ( 3.9. ( 7 . 6' ( 7 . 6' 514.5 273450 A-5/ (5.5 (2) (3) (3) (3) (3) 600.31 A-2.P ALTERNAL MARTINE ALTERNAL ALTE #4 Second 10"Gos Main NOTE : For Profile 5.5 see Sheet No. 64 . . . .

