EX ℄ RAMP ES

EX 54" WATER MAIN

113

114

115+00

RAMP ES/WS

PROPOSED CONTOURS

PR WATER MAIN THRUST RESTRAINTS

EX HIGH MAST TOWER AND FOUNDATION TO BE REMOVED (SEE LIGHTING PLANS)

EARTH EXCAVATION INCLUDES REMOVAL OF EX ABANDONED CONDUIT AND CABLES WHERE IT CONFLICTS WITH PROPOSED WORK

PR BARRIER WALL

MATCH LINE STA 7311+25
SEE SHEET NO. 100

MATCH LINE STA 7314+00
SEE SHEET NO. 102

S-02 S-03 S-04 S-05 S-06 S-07 S-08 S-09 S-C03

575.8 576.0 576.2 576.6 576.8 577.0 577.2 577.4 577.6 578.0 579.0 580.0 577.8 578.0 578.2 578.4 578.6 578.8 576.0 576.4 576.6 576.8 577.0 577.2 577.4 577.6 578.0

574.8

VARIES. SEE CROSS SECTIONS

RETAINING WALL 10
SN 016-1729
(SEE STRUCTURAL PLANS)

PR ℄ EB TAYLOR EXIT RAMP

PR 48" WATER MAIN REPLACEMENT (SEE SOUTHWEST 48" WATER MAIN REPLACEMENT)

7312

7313

594.0 593.8 593.6 593.2 593.4 592.8

CONCRETE GUTTER, TYPE B
SEE ROADWAY DETAIL SHEET 49

CONCRETE GUTTER, TYPE B
SEE ROADWAY DETAIL SHEET 49

PR 60" DIA COMBINED SEWER
(SEE DRAINAGE AND UTILITIES PLANS)

UIC TENNIS COURTS

UIC BASKETBALL COURTS

UIC ACCESS ROAD

N

0 10 20

SCALE: 1"=10'

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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

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PLOT SCALE = 20.0000 ' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 5/15/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN

SCALE: 1" = 10' | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	101
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		

EX ℄ RAMP ES

PROPOSED CONTOURS

PR BARRIER WALL

EX 7' DIAMETER
ABANDONED WATER TUNNEL

RETAINING WALL 10
SN 016-1729
(SEE STRUCTURAL PLANS)

PR ℄ EB TAYLOR EXIT RAMP

RAMP ES/RAMP WS

INTERIM GRADING

UIC ACCESS ROAD

MATCH LINE STA 7314+00
SEE SHEET NO. 101

S-10 S-11 S-12 S-26 S-C06

SOIL RETENTION SYSTEMS
(SEE STRUCTURAL PLANS)

PR 60" DIA COMBINED SEWER
(SEE DRAINAGE AND UTILITIES PLANS)

SCALE: 1"=10'

FILE PATH = pw:\\61749-PWINT.aecomonline.local\AECOM.DSO2.NA\Documents\01 Americas\Transportation\60269938 Circle\Phase II\000 CAD\006 Roadway\Sheets\62A74 Contract\D162A74-sht-Grading-03.dgn

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

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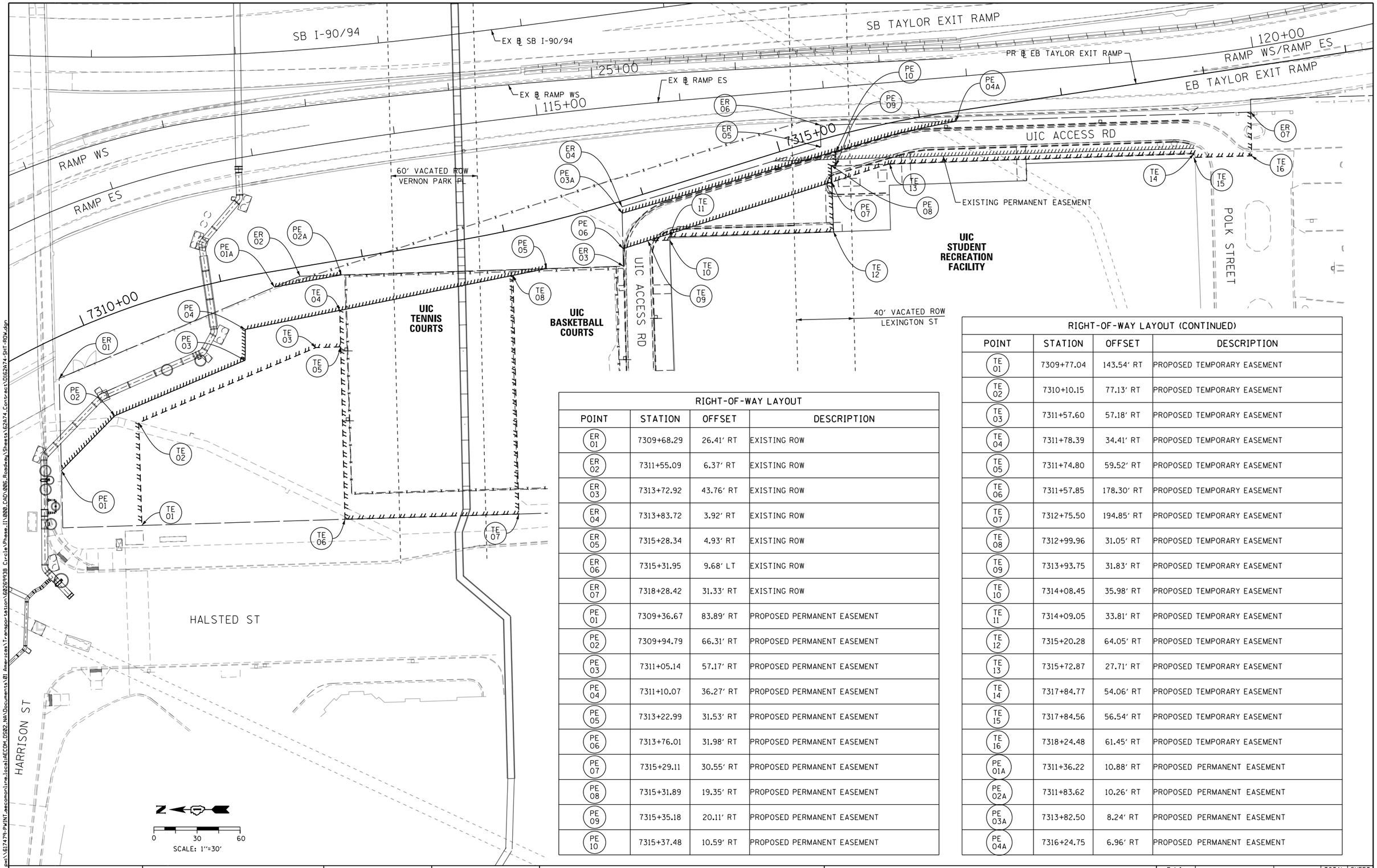
PLOT DATE = 5/15/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN

SCALE: 1" = 10' | SHEET 3 OF 3 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	102
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		



RIGHT-OF-WAY LAYOUT			
POINT	STATION	OFFSET	DESCRIPTION
ER 01	7309+68.29	26.41′ RT	EXISTING ROW
ER 02	7311+55.09	6.37′ RT	EXISTING ROW
ER 03	7313+72.92	43.76′ RT	EXISTING ROW
ER 04	7313+83.72	3.92′ RT	EXISTING ROW
ER 05	7315+28.34	4.93′ RT	EXISTING ROW
ER 06	7315+31.95	9.68′ LT	EXISTING ROW
ER 07	7318+28.42	31.33′ RT	EXISTING ROW
PE 01	7309+36.67	83.89′ RT	PROPOSED PERMANENT EASEMENT
PE 02	7309+94.79	66.31′ RT	PROPOSED PERMANENT EASEMENT
PE 03	7311+05.14	57.17′ RT	PROPOSED PERMANENT EASEMENT
PE 04	7311+10.07	36.27′ RT	PROPOSED PERMANENT EASEMENT
PE 05	7313+22.99	31.53′ RT	PROPOSED PERMANENT EASEMENT
PE 06	7313+76.01	31.98′ RT	PROPOSED PERMANENT EASEMENT
PE 07	7315+29.11	30.55′ RT	PROPOSED PERMANENT EASEMENT
PE 08	7315+31.89	19.35′ RT	PROPOSED PERMANENT EASEMENT
PE 09	7315+35.18	20.11′ RT	PROPOSED PERMANENT EASEMENT
PE 10	7315+37.48	10.59′ RT	PROPOSED PERMANENT EASEMENT

RIGHT-OF-WAY LAYOUT (CONTINUED)			
POINT	STATION	OFFSET	DESCRIPTION
TE 01	7309+77.04	143.54′ RT	PROPOSED TEMPORARY EASEMENT
TE 02	7310+10.15	77.13′ RT	PROPOSED TEMPORARY EASEMENT
TE 03	7311+57.60	57.18′ RT	PROPOSED TEMPORARY EASEMENT
TE 04	7311+78.39	34.41′ RT	PROPOSED TEMPORARY EASEMENT
TE 05	7311+74.80	59.52′ RT	PROPOSED TEMPORARY EASEMENT
TE 06	7311+57.85	178.30′ RT	PROPOSED TEMPORARY EASEMENT
TE 07	7312+75.50	194.85′ RT	PROPOSED TEMPORARY EASEMENT
TE 08	7312+99.96	31.05′ RT	PROPOSED TEMPORARY EASEMENT
TE 09	7313+93.75	31.83′ RT	PROPOSED TEMPORARY EASEMENT
TE 10	7314+08.45	35.98′ RT	PROPOSED TEMPORARY EASEMENT
TE 11	7314+09.05	33.81′ RT	PROPOSED TEMPORARY EASEMENT
TE 12	7315+20.28	64.05′ RT	PROPOSED TEMPORARY EASEMENT
TE 13	7315+72.87	27.71′ RT	PROPOSED TEMPORARY EASEMENT
TE 14	7317+84.77	54.06′ RT	PROPOSED TEMPORARY EASEMENT
TE 15	7317+84.56	56.54′ RT	PROPOSED TEMPORARY EASEMENT
TE 16	7318+24.48	61.45′ RT	PROPOSED TEMPORARY EASEMENT
PE 01A	7311+36.22	10.88′ RT	PROPOSED PERMANENT EASEMENT
PE 02A	7311+83.62	10.26′ RT	PROPOSED PERMANENT EASEMENT
PE 03A	7313+82.50	8.24′ RT	PROPOSED PERMANENT EASEMENT
PE 04A	7316+24.75	6.96′ RT	PROPOSED PERMANENT EASEMENT

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D162A74-SHT-ROW.dgn	DESIGNED - OPS	REVISED -	
USER NAME = ChiuA	DRAWN - OPS	REVISED -	
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PLOT DATE = 5/15/2017	DATE - 05/15/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

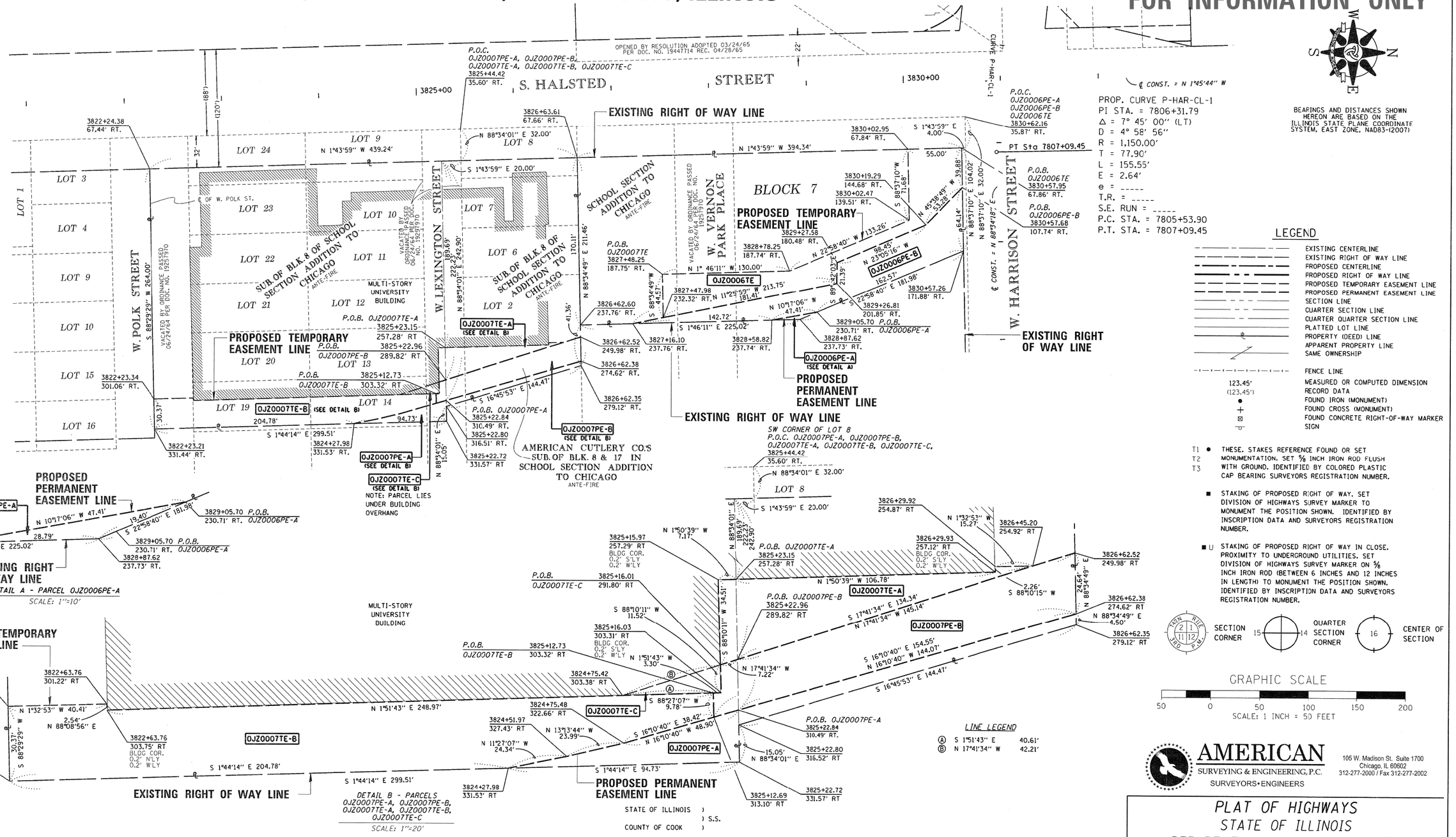
RIGHT-OF-WAY

SCALE: 1"=30' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	103
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

PART OF SECTION 16, T39N, R14E, OF THE 3RD PM, COOK COUNTY, ILLINOIS

FOR INFORMATION ONLY



LEGEND

- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED CENTERLINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED TEMPORARY EASEMENT LINE
- PROPOSED PERMANENT EASEMENT LINE
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- SAME OWNERSHIP
- FENCE LINE
- 123.45' (123.45') MEASURED OR COMPUTED DIMENSION, RECORD DATA
- ● FOUND IRON (MONUMENT)
- + FOUND CROSS (MONUMENT)
- ⊠ FOUND CONCRETE RIGHT-OF-WAY MARKER
- SIGN

T1 ● T2 T3 THESE. STAKES REFERENCE FOUND OR SET MONUMENTATION. SET ⅝ INCH IRON ROD FLUSH WITH GROUND. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ U STAKING OF PROPOSED RIGHT OF WAY IN CLOSE. PROXIMITY TO UNDERGROUND UTILITIES. SET DIVISION OF HIGHWAYS SURVEY MARKER ON ⅝ INCH IRON ROD (BETWEEN 6 INCHES AND 12 INCHES IN LENGTH) TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

SECTION CORNER 15 — 14 QUARTER SECTION CORNER — 16 CENTER OF SECTION

GRAPHIC SCALE
50 0 50 100 150 200
SCALE: 1 INCH = 50 FEET

PARCEL NO.	OWNER	PERMANENT INDEX NUMBER	TOTAL HOLDING	AREA TAKEN	PREVIOUSLY DEDICATED	REMAINDER	EASEMENTS TEMP	EASEMENTS PERM	ACQUIRED BY	EXPIRATION DATE
OJZ0006PE-A	THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS	17-16-300-021 (PT.) 17-16-301-016	1.411 AC	———	0.000 AC	1.411 AC		0.002 AC 101 SQ.FT.	1335846026	
OJZ0006PE-B								0.213 AC		
OJZ0006TE							0.234 AC		1335846027	12/24/2016
OJZ0007PE-A	THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS	17-16-301-021 17-16-301-028 17-16-302-038	2.553 AC	———	0.000 AC	2.553 AC		0.038 AC		
OJZ0007PE-B								0.076 AC		
OJZ0007TE-A							0.049 AC			
OJZ0007TE-B							0.172 AC			
OJZ0007TE-C							0.005 AC 234 SQ.FT.			

CALCULATIONS BY: M. BARAN / J. DYBAS DRAFTING BY: J. NOCON / M. BARAN CHECKED BY: C. FIDIS / J. DYBAS

STATE OF ILLINOIS)
) S.S.
COUNTY OF COOK)

THIS IS TO CERTIFY THAT I, JOHN A. DYBAS III, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 17, TOWNSHIP 39 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, COOK COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CHICAGO, ILLINOIS THIS 30TH DAY OF JANUARY, 2017.

JOHN A. DYBAS III
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3097
LICENSE. EXPIRATION DATE 11/30/2018

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

STATE OF ILLINOIS JOHN A. DYBAS 35-3097 CHICAGO, ILL. PROFESSIONAL LAND SURVEYOR

REVISION DATE: 1/30/2017 ASE. JOB NO. 210125.7

AMERICAN SURVEYING & ENGINEERING, P.C.
SURVEYORS•ENGINEERS
105 W. Madison St. Suite 1700
Chicago, IL 60602
312-277-2000 / Fax 312-277-2002

RECEIVED
JAN 30 2017
PLATS & LEGALS

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DWIGHT D. EISENHOWER EXPRESSWAY (I-290)
HALSTED STREET TO MORGAN STREET

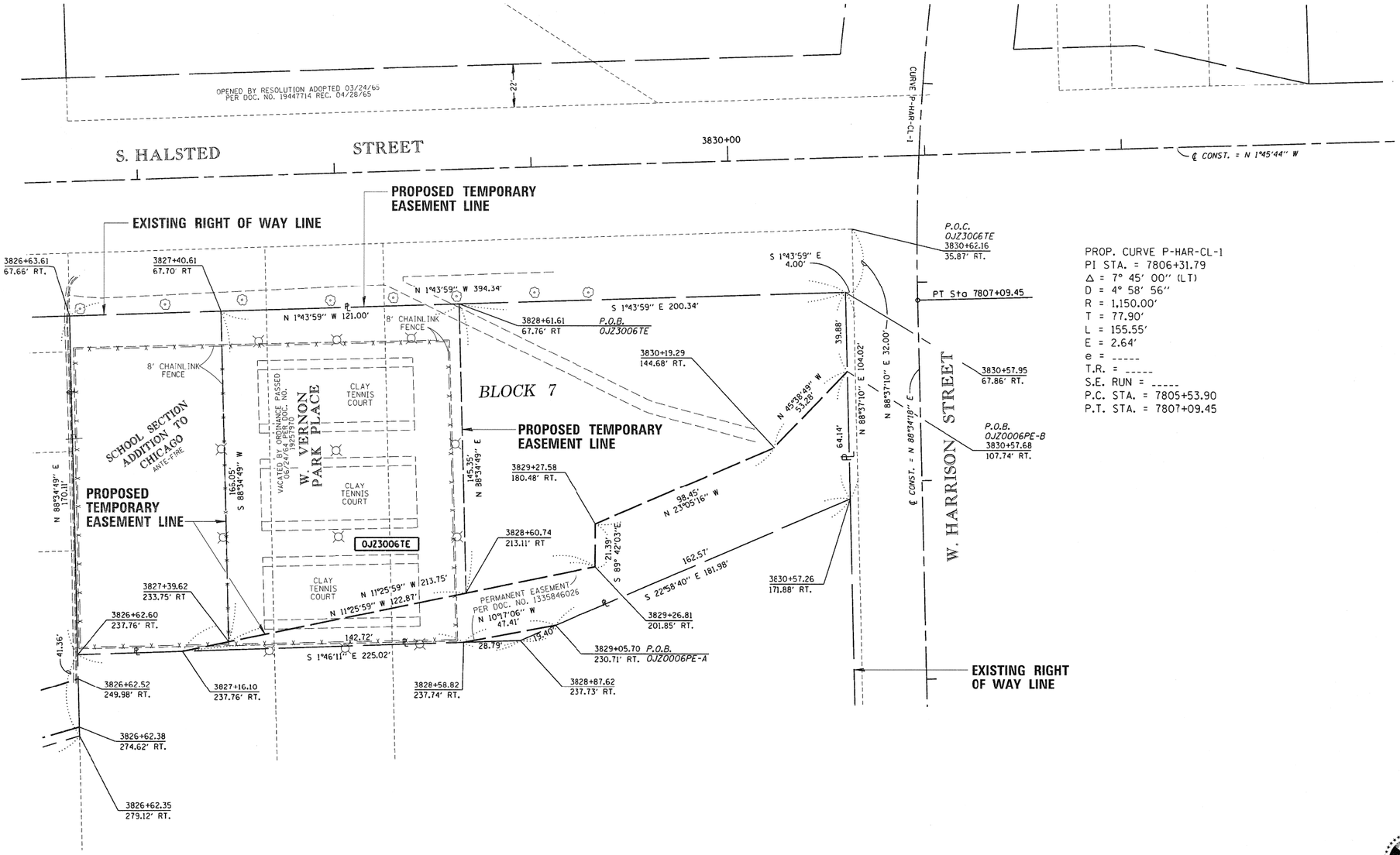
SECTION: CIRCLE INTERCHANGE COOK COUNTY
PROJECT: JOB NO. R-90-031-13
STATION: 3822+23.21 (HALSTED) TO STATION: 3830+57.95

SCALE: 1" = 50' SHEET 5 OF 7

BUREAU OF LAND ACQUISITION 275 104
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196 CONTRACT 62A74

PART OF SECTION 16, T39N, R14E, OF THE 3RD PM, COOK COUNTY, ILLINOIS

FOR INFORMATION ONLY



PROP. CURVE P-HAR-CL-1
PI STA. = 7806+31.79
Δ = 7° 45' 00" (LT)
D = 4° 58' 56"
R = 1,150.00'
T = 77.90'
L = 155.55'
E = 2.64'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 7805+53.90
P.T. STA. = 7807+09.45

BEARINGS AND DISTANCES SHOWN HEREON ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83-(2007)

LEGEND

- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED CENTERLINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED TEMPORARY EASEMENT LINE
- PROPOSED PERMANENT EASEMENT LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- SAME OWNERSHIP
- FENCE LINE
- 123.45' MEASURED DIMENSION
- (123.45') RECORD DIMENSION
- ● FOUND IRON ROD / PIPE
- + FOUND CROSS
- ⊠ FOUND ROW MARKER
- SIGN

T1 ● THESE. STAKES REFERENCE FOUND OR SET
T2 MONUMENTATION. SET ⅝ INCH IRON ROD FLUSH
T3 WITH GROUND. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

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SECTION CORNER — QUARTER SECTION CORNER

GRAPHIC SCALE
30 0 30 60 90 120
SCALE: 1 INCH = 30 FEET

PARCEL NO.	OWNER	PERMANENT INDEX NUMBER	TOTAL HOLDING	AREA TAKEN	PREVIOUSLY DEDICATED	REMAINDER	EASEMENTS TEMP	EASEMENTS PERM	ACQUIRED BY	EXPIRATION DATE
OJZ3006TE	THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS	17-16-300-021 (PT.) 17-16-301-016	1.411 AC	———	0.000 AC	1.411 AC	0.432 AC			

STATE OF ILLINOIS)
) S.S.
COUNTY OF COOK)

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DATED AT CHICAGO, ILLINOIS THIS 30TH DAY OF JANUARY, 2017.

JOHN A. DYBAS III
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STATE OF ILLINOIS · JOHN A. DYBAS III · 35-3097 · CHICAGO, ILL. · PROFESSIONAL LAND SURVEYOR

AMERICAN SURVEYING & ENGINEERING, P.C.
SURVEYORS•ENGINEERS
105 W. Madison St. Suite 1700
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312-277-2000 / Fax 312-277-2002

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DWIGHT D. EISENHOWER EXPRESSWAY (I-290)
HALSTED STREET TO MORGAN STREET

SECTION: CIRCLE INTERCHANGE — COOK COUNTY
PROJECT: — JOB NO. R-90-031-13
STATION: 3822+23.21 (HALSTED) TO — STATION: 3830+57.95

SCALE: 1" = 30' — SHEET 6 OF 7

BUREAU OF LAND ACQUISITION 275 105
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196 CONTRACT 62A74

RECEIVED
JAN 31 2017
PLATS & LEGALS

CALCULATIONS BY: M. BARAN / J. DYBAS — DRAFTING BY: J. NOCON / M. BARAN — CHECKED BY: C. FIDIS / J. DYBAS — REVISION DATE: 1/30/2017 — ASE. JOB NO. 210125.7

WATER MAIN GENERAL NOTES:

1. LOCATION OF UTILITIES AND PROPERTY LINES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED.

2. THE CONTRACTOR SHALL VERIFY THE LOCATION OF UNDERGROUND UTILITIES WITH THE UTILITY OWNERS PRIOR TO DOING ANY WORK IN THE VICINITY. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF UTILITY OWNERS REGARDING NOTICE OF WORK AND PROTECTION OF UTILITIES. THE CONTRACTOR SHALL COMPLY WITH THE CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION DAMAGE PREVENTION PROTOCOL CITY INFRASTRUCTURE DEPARTMENTS. ALL UTILITIES SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE CONSTRUCTION. (CALL DIGGER 312-744-7000)

3. IF ANY PUBLIC OR PRIVATE UTILITIES CROSS THE WATER MAIN TRENCH AND SHALL REMAIN IN PLACE, THE CONTRACTOR SHALL PROTECT SAID UTILITY IN CONFORMANCE WITH THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.

4. TEST PITS SHALL BE EXCAVATED IN ADVANCE OF PIPELINE CONSTRUCTION IN ORDER TO CONFIRM DEPTH AND LOCATION OF EXISTING UTILITIES AND WHEN DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR TEST PIT EXCAVATION.

5. WORK INDICATED ON THE PLANS AND NOT REFERENCED TO A BID ITEM SHALL BE CONSIDERED INCLUDED WITHIN THE BID ITEM TO THE WORK TO WHICH IT APPLIES AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

6. WATER MAIN AND FITTINGS LOCATIONS SHOWN ON THE DRAWINGS FOR THE NEW WATER MAINS AND APPURTENANCES MAY BE CHANGED BY THE ENGINEER DUE TO FIELD CONDITIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR SUCH CHANGES, UNLESS PREVIOUSLY APPROVED BY THE ENGINEER.

7. THE OPERATION OF ALL VALVES REQUIRED FOR SHUTDOWN SHALL BE PERFORMED BY CHICAGO DEPARTMENT OF WATER MANAGEMENT (CDWM) FORCES PURSUANT TO A 72 HOUR ADVANCE NOTIFICATION TO THE DEPARTMENT. ANY VALVE FOUND NOT OPERABLE WILL BE REPAIRED OR REPLACED BY CDWM.

8. REMOVE AND PROPERLY DISPOSE OF ALL WATER ENTERING ANY EXCAVATION INCLUDING LEAKAGE FROM EXISTING WATER MAINS. ALL EXCAVATIONS ASSOCIATED WITH THE WATER MAIN WORK SHALL BE KEPT DRY.

9. ALL OPENINGS IN EXISTING WATER MAINS SHALL BE PLUGGED OR CAPPED WITH DUCTILE IRON FITTINGS UNTIL THE MAIN IS ABANDONED OR RECONNECTED.

10. ALL VALVE BASINS SHALL BE CONSTRUCTED OF PRE-CAST REINFORCED CONCRETE UNLESS DIRECTED OTHERWISE BY THE ENGINEER.

11. NOTES INDICATING S.N.L., E.W.L., ETC. MEAN SOUTH OF THE NORTH PROPERTY LINE, EAST OF THE WEST PROPERTY LINE, ETC. AND ARE MEASURED FROM THE NEAREST STREET.

12. IF A STANDARD MECHANICAL JOINT SLEEVE DOES NOT FIT TO MAKE CONNECTION OF THE NEW PIPE TO THE EXISTING PIPE. A TRANSITION SLEEVE MUST BE USED. NO GRINDING OF THE EXISTING PIPE IS PERMITTED.

13. THE CONTRACTOR SHALL CONSULT AND FOLLOW RESTRAINED JOINT PIPE MANUFACTURER'S GUIDELINES AS TO EXTENSION OF THE JOINT AFTER ASSEMBLY IN ORDER TO LIMIT THE JOINT TAKE-UP UNDER PRESSURE TEST OR SERVICE CONDITIONS.

14. USE FILLER PIECES OF PIPE TO FILL THE AREA BETWEEN PIPE ENDS WHEN INSTALLING SLEEVE FITTINGS.

15. ON CONNECTIONS TO EXISTING CAST IRON PIPES, USE CAUTION WHEN INSTALLING MJ SLEEVES. SET SCREW TYPE RESTRAINT GLANDS (E.G. RETAINER GLANDS) ARE NOT ACCEPTABLE. CONSULT THE SPECIAL PROVISIONS FOR JOINT RESTRAINT REQUIREMENTS.

16. SWAB ALL PIPE AND FITTINGS WITH CHLORINE SOLUTION DURING INSTALLATION AND USE EXTRA PRECAUTION TO PREVENT SOIL AND DEBRIS FROM ENTERING THE PIPE. COMPLY WITH ALL STANDARDS AND REQUIREMENTS OF THE CDWM BUREAU OF WATER QUALITY. (312) 744-8190

17. DE-CHLORINATION OF HEAVILY CHLORINATED WATER IS REQUIRED. THE CONTRACTOR OR SUBCONTRACTED CHLORINATOR SHALL DE-CHLORINATE AS LISTED FOR ''INFORMATIONAL PURPOSES ONLY'' IN APPENDIX C OF THE ANSI/AWWA STANDARD C-651-05, JUNE 1, 2005. THE CHLORINE LEVEL SHALL BE BROUGHT TO POTABLE WATER LEVELS.

18. ELEVATIONS ARE SHOWN IN THE CITY OF CHICAGO DATUM AND NAVD 88. THE CONVERSION FACTOR FROM CCD TO NAVD88 IS: NAVD 88 ELEVATION = CCD + 579.19.

19. CONTRACTOR SHALL CONSTRUCT THE IMPROVEMENTS ONLY WITHIN THE RIGHT-OF-WAY OR PERMANENT EASEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE TO PRIVATE PROPERTY AND SHALL REPAIR SAID DAMAGE AT OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.

20. ALL PIPE AND FITTINGS INSTALLED SHALL BE RESTRAINED JOINT APPROVED BY CDWM.

TOTAL BILL OF MATERIALS		
WATER MAIN REMOVAL, 54"	FOOT	212
WATER MAIN REMOVAL, 48"	FOOT	22
WATER MAIN REMOVAL, 36"	FOOT	8
REMOVE EXISTING VALVE AND VAULT	EACH	3
CONCRETE REMOVAL (SPECIAL)	CY	120
FIRE HYDRANTS TO BE REMOVED	EACH	1
FEEDER WATER MAIN DISCONNECT	L SUM	1
WATER MAIN ABANDON, FILL WITH CLSM	L SUM	1
DUCTILE IRON WATER MAIN, MECHANICAL JOINT 48"	FOOT	135
DUCTILE IRON WATER MAIN, MECHANICAL JOINT 48" IN CASING	FOOT	70
STEEL CASING PIPE, AUGERED & JACKED, 72"	FOOT	70
WATER MAIN REHABILITATION	FOOT	564
BUTTERFLY VALVES 48" -INSTALLATION ONLY	EACH	1
MANHOLE, SPECIAL	EACH	3
INSPECTION TEE, 48" X 24"	EACH	2
CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT ENGINEERING SERVICES	L SUM	1
TRENCH BACKFILL	CY	376.4

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-Sht-WM-GN-01.dgn	DESIGNED - OPS	REVISED -	
USER NAME = dshevaz	DRAWN - OPS	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - RBB	REVISED -	
PLOT DATE = 5/15/2017	DATE - 05/15/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN
GENERAL NOTES

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	106
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

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EX 24" COMBINED SEWER TO REMAIN

EX INSPECTION MANHOLE

EX 48" WATERMAIN TO REMAIN

EX 8" VALVE AND FIRE CISTERN

EX 54" WATER MAIN TO BE ABANDONED (SEE SHEETS 115 AND 116)

CERMAK PUMPING STATION

LINE EX 54" WATER MAIN SEE WATER MAIN LINING PLANS

EX 12" STORM SEWER TO REMAIN

EX 60" COMBINED SEWER TO BE REMOVED (SEE DRAINAGE PLANS)

HALSTED STREET

UIC TENNIS COURTS

RAMP ES/ RAMP WS

SB I-90/94

EX 12" STORM SEWER TO REMAIN

TEST HOLE #40
TOP OF PIPE EL 578.58

900+00

EX 8" VALVE AND FIRE CISTERN

EX 8" VALVE AND FIRE CISTERN

60' VACATED ROW VERNON PARK PLACE

EX ℄ 54" WATER MAIN

TEST HOLE #37
TOP OF PIPE EL 576.33

BEGIN WATER MAIN REMOVAL
STA 901+84.09

LINE EX 48" WATER MAIN SEE WATER MAIN LINING PLANS

END WATER MAIN REMOVAL
STA 903+55.21

EX 8" VALVE AND FIRE CISTERN

REMOVE EXISTING VALVE AND VAULT, 1 EACH

EX 12" STORM SEWER TO REMAIN

EX FIRE HYDRANTS TO REMAIN

WATER MAIN REMOVAL, 54" - 180 FEET

EX RETAINING WALL TO REMAIN

EX RETAINING WALL 12 TO BE PARTIALLY REMOVED (SEE STRUCTURAL PLANS)

UIC BASKETBALL COURTS

EX ℄ SB I-90/94

EX 12" STORM SEWER TO REMAIN

EX 24" COMBINED SEWER TO REAIN

EX 12" STORM SEWER TO REMAIN

N

0 20 40
SCALE: 1"=20'

LEGEND:

X WATER MAIN TO BE ABANDONED

WATER MAIN TO BE REMOVED

NOTES:

1. ALL INVERT AND TOP OF PIPE ELEVATIONS TO BE FIELD VERIFIED.

EXISTING SOUTHWEST WATER MAIN REMOVAL

CONSTRUCTION SEQUENCING NOTES:

2. REMOVE EXISTING 54" WATER MAIN AS SHOWN ON PLANS. REMOVAL OF THRUST BLOCKS IN CONFLICT WITH PROPOSED IMPROVEMENTS SHALL BE PAID FOR AS CONCRETE REMOVAL (SPECIAL). SEE RECORD DRAWINGS FOR ESTIMATED LOCATIONS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

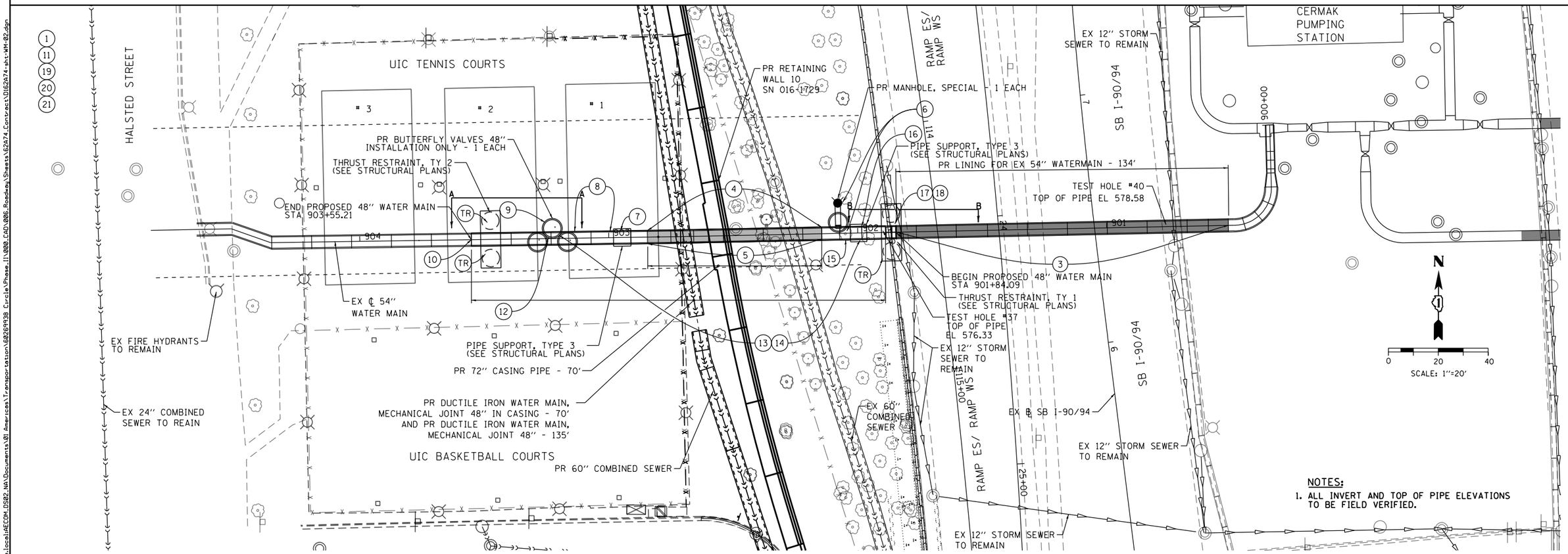
EXISTING SOUTHWEST WATER MAIN REMOVAL

SCALE: 1"=20' | SHEET 1 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	107
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		

CONSTRUCTION/SEQUENCING NOTES:

1. DRAWINGS ARE BASED ON RECORD DRAWINGS RECEIVED FROM CHICAGO DEPARTMENT OF WATER MANAGEMENT (CDWM). IN ADVANCE OF PERFORMING THE WORK, THE CONTRACTOR SHALL EXCAVATE AND VERIFY IN THE FIELD, THE LOCATION, SIZE, JOINT TYPE OF THE EXISTING 54'' PIPE AND FITTINGS TO BE REMOVED WHERE THE PROPOSED CONNECTIONS ARE TO BE MADE. CONTACT CHICAGO DEPARTMENT OF WATER MANAGEMENT (CDWM) FOR SHUTDOWN OF WATER MAINS (312-744-5070). DEWATER EXISTING 54'' WATER MAIN.
2. REMOVE EXISTING 54'' WATER MAIN, SEE SHEET 107.
3. INSTALL CARBON FIBER LINING IN EXISTING 54'' WATER MAIN BETWEEN STATION 900+51.09 AND STATION 901+84.09.
4. INSTALL 70' - 72'' STEEL CASING PIPE BETWEEN STATIONS 902+14.43 AND 902+84.73 UNDER LOCATIONS OF EXISTING 60'' COMBINED SEWER, PROPOSED RETAINING WALL AND PROPOSED 60'' COMBINED SEWER.
5. INSTALL 48'' WATER MAIN IN CASING PIPE USING CASING SPACERS.
6. INSTALL 1-48'' X 24'' TEE FOR INSPECTION MANHOLE AT APPROXIMATE STATION 902+07.73. TEMPORARILY PLUG AND BRACE EAST RUN OF TEE FOR PRESSURE TESTING. INSTALL TEMPORARY FLUSHING HYDRANT ON BRANCH OUTLET OF TEE.
7. INSTALL 2- 48'' X1/4 VERTICAL BENDS AT APPROXIMATE STATION 902+95.09 TO ADJUST THE VERTICAL ALIGNMENT OF PIPELINE. BUILD PIPE SUPPORT, TYPE 3.
8. INSTALL 48'' PIPE TO THE WEST AS SHOWN.
9. INSTALL 1-48'' BUTTERFLY VALVE AT STATION 903+22.41 AND 48'' PIPE TO WEST. INSTALL 2-2'' TAPS AND BUILD BASINS PER THE DETAILS.
10. INSTALL 1-54''X 48'' STEEL TRANSITION REDUCER. WELD THE 54'' JOINT. INSTALL 48'' PIPE WITH THRUST COLLAR AND BUILD THRUST RESTRAINTS (SEE SECTION A-A). INSTALL 48'' PIPE TO EAST AND CONNECT WITH 1-48'' MJ SLEEVE.
11. CONTACT CDWM TO OPEN THE VALVES TO THE WEST THAT WERE SHUTDOWN (312-744-5070).
12. SLOWLY OPEN THE NEW 48'' BUTTERFLY VALVE (NOTE 9) AND FILL THE NEW WATER MAIN. FLUSH ALL AIR FROM THE SYSTEM.
13. CLOSE THE 48'' BUTTERFLY VALVE AND PRESSURE TEST THE NEW 48'' WATER MAIN SEGMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
14. AFTER APPROVAL OF THE PRESSURE TEST, DEWATER THE NEW 48'' WATER MAIN IN PREPARATION FOR MAKING THE FINAL CONNECTION.
15. REMOVE THE TEMPORARY PLUG AND FLUSHING HYDRANT FROM THE 48'' TEE (NOTE 6). INSTALL 24'' PLUG IN BRANCH OUTLET. BUILD BASIN PER THE DETAILS.
16. INSTALL 48'' PIPE AND 2 - 48'' X 1/4 BENDS TO THE EAST AS SHOWN TO ADJUST THE VERTICAL ALIGNMENT OF THE PIPELINE. BUILD PIPE SUPPORT, TYPE 3.
17. INSTALL 1-54''X 48'' STEEL TRANSITION REDUCER. WELD THE 54'' JOINT.
18. CONNECT TO THE NEW 48'' WATER MAIN WITH 48'' PIPE AND 1-48'' MJ SLEEVE.
19. CONTACT CDWM TO OPERATE VALVES FOR FILLING AND FLUSHING THE WATER MAIN.
20. DISINFECT PER THE CONTRACT DOCUMENTS. AFTER APPROVAL OF DISINFECTION, WATER MAIN MAY BE PUT INTO SERVICE.
21. RESTORE ALL WATER MAIN TRENCHES PER THE DETAILED DRAWING.



NOTES:
1. ALL INVERT AND TOP OF PIPE ELEVATIONS TO BE FIELD VERIFIED.

PROPOSED SOUTHWEST WATER MAIN REPLACEMENT

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED SOUTHWEST WATER MAIN REPLACEMENT

SCALE: 1''=20' | SHEET 2 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	108
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

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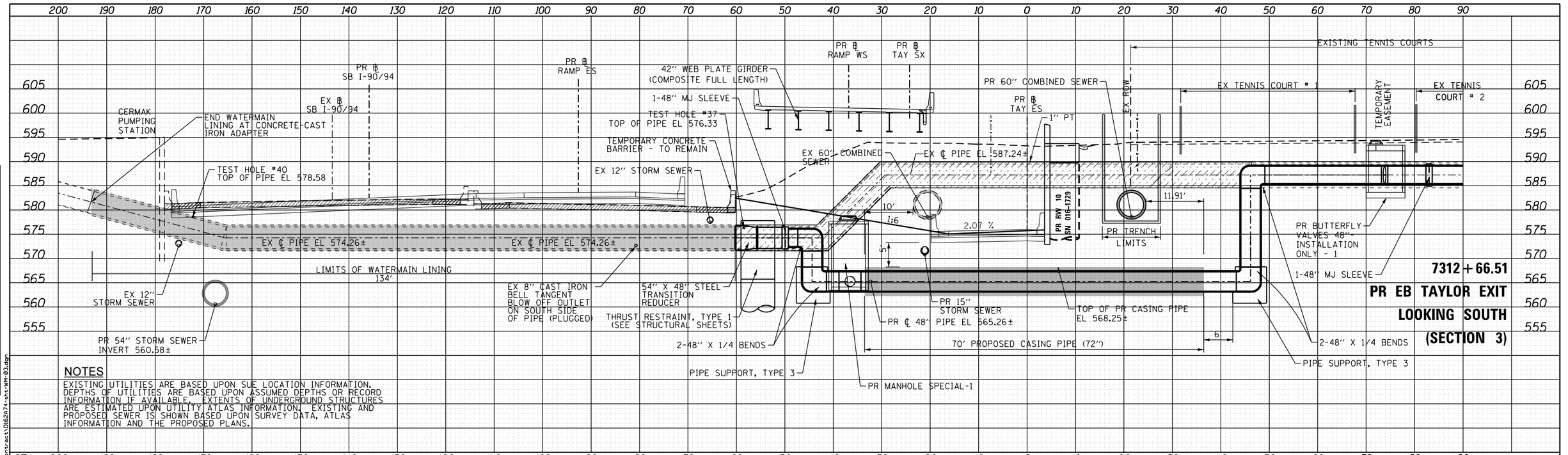
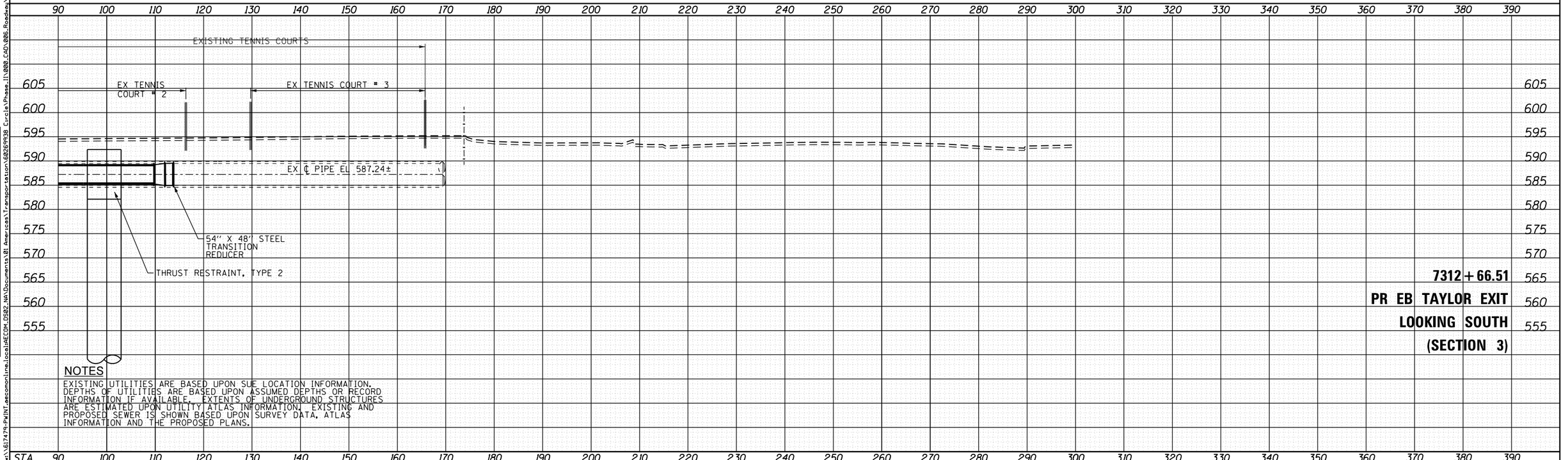


NOTES

EXISTING UTILITIES ARE BASED UPON SUE LOCATION INFORMATION. DEPTHS OF UTILITIES ARE BASED UPON ASSUMED DEPTHS OR RECORD INFORMATION IF AVAILABLE. EXTENTS OF UNDERGROUND STRUCTURES ARE ESTIMATED UPON UTILITY ATLAS INFORMATION. EXISTING AND PROPOSED SEWER IS SHOWN BASED UPON SURVEY DATA, ATLAS INFORMATION AND THE PROPOSED PLANS.



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ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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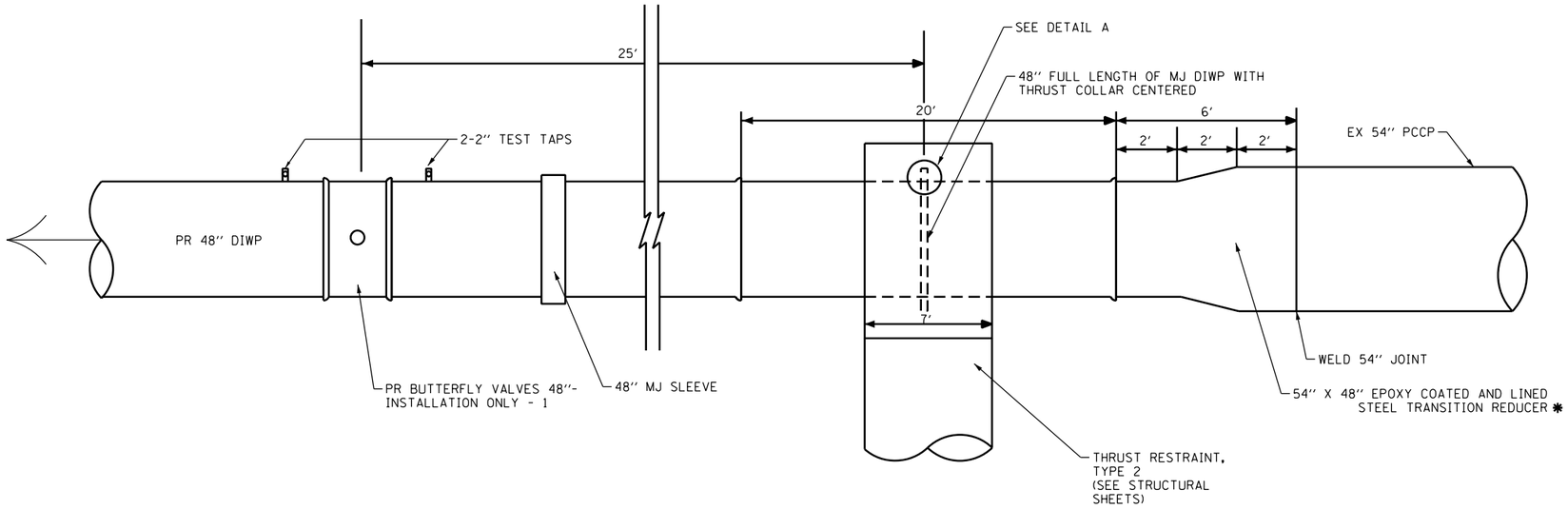
DEPARTMENT OF TRANSPORTATION

CERMAK PUMPING STATION 54" SOUTH WEST WATER MAIN PROFILE
PROPOSED WATER MAIN REPLACEMENT AND LINING

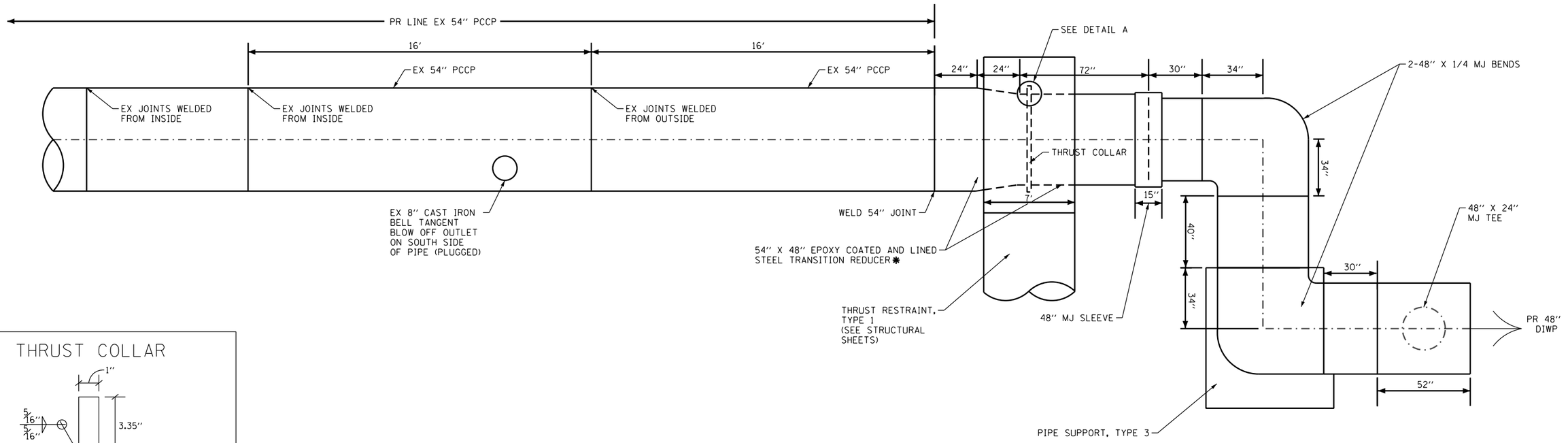
SCALE: 1" = 10' | SHEET 3 OF 12 SHEETS | STA. 7312+66.51 | TO STA. 7312+66.51

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	109
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		



SECTION A-A
(LOOKING SOUTH)

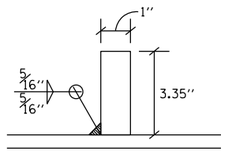
✱ SMALL END = 48'' DI PIPE O.D. PLAIN END
LARGE END TO BE VERIFIED IN FIELD.



SECTION B-B
(LOOKING SOUTH)

✱ SMALL END = 48'' DI PIPE O.D. PLAIN END
LARGE END TO BE VERIFIED IN FIELD.

THRUST COLLAR



DETAIL A

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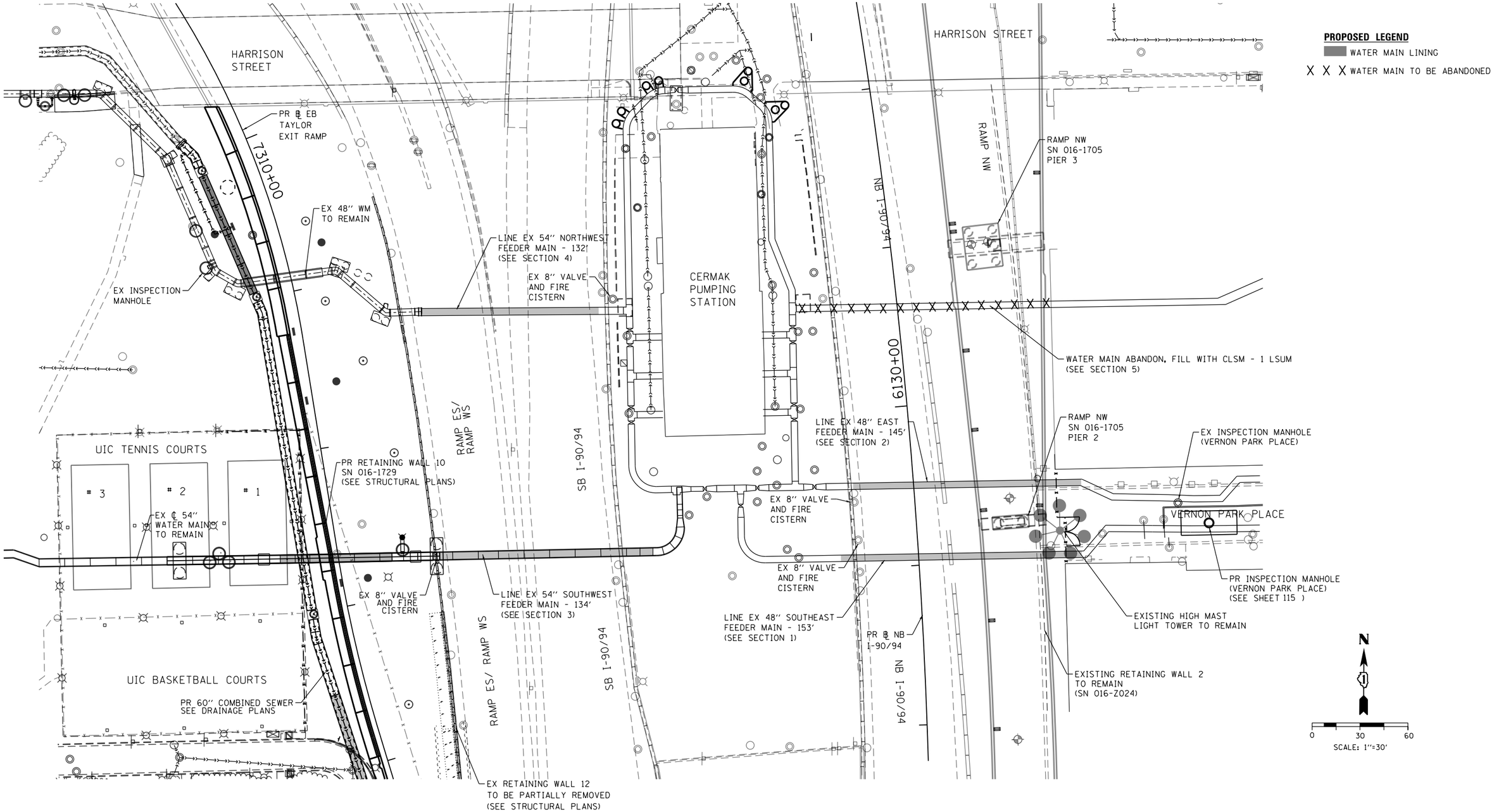
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

54" SOUTHWEST WATER MAIN
SECTION DETAILS

SCALE: | SHEET 4 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	110
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			



PROPOSED LEGEND

WATER MAIN LINING

X X X WATER MAIN TO BE ABANDONED

PROPOSED WATER MAIN LINING

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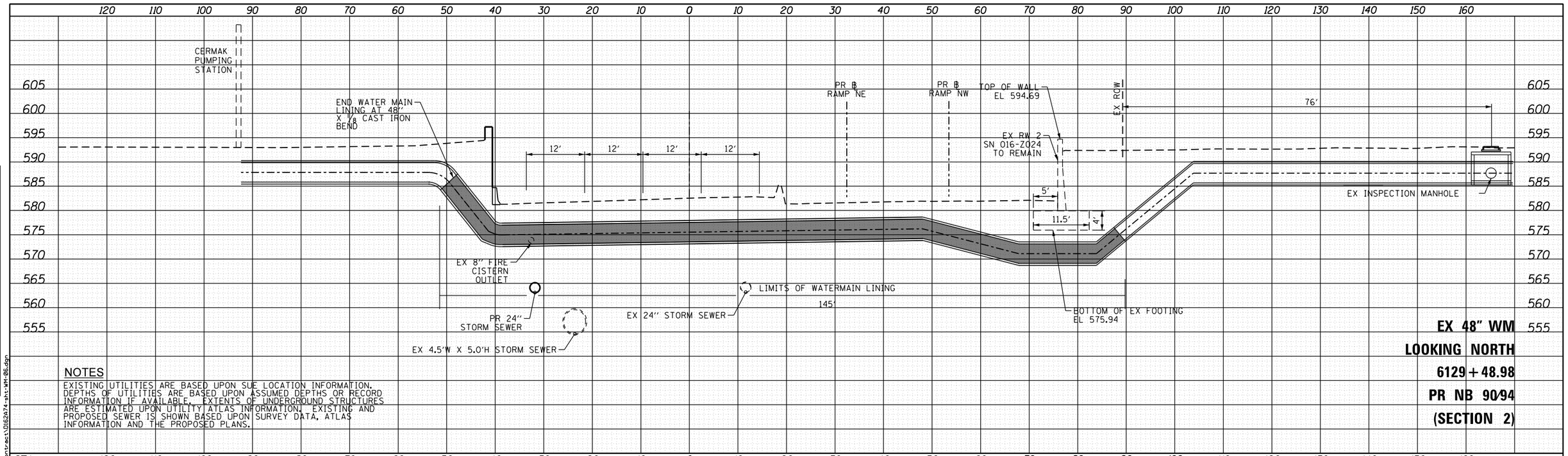
DEPARTMENT OF TRANSPORTATION

PROPOSED WATER MAIN LINING

SCALE: 1"=30' | SHEET 5 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	111
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		



NOTES

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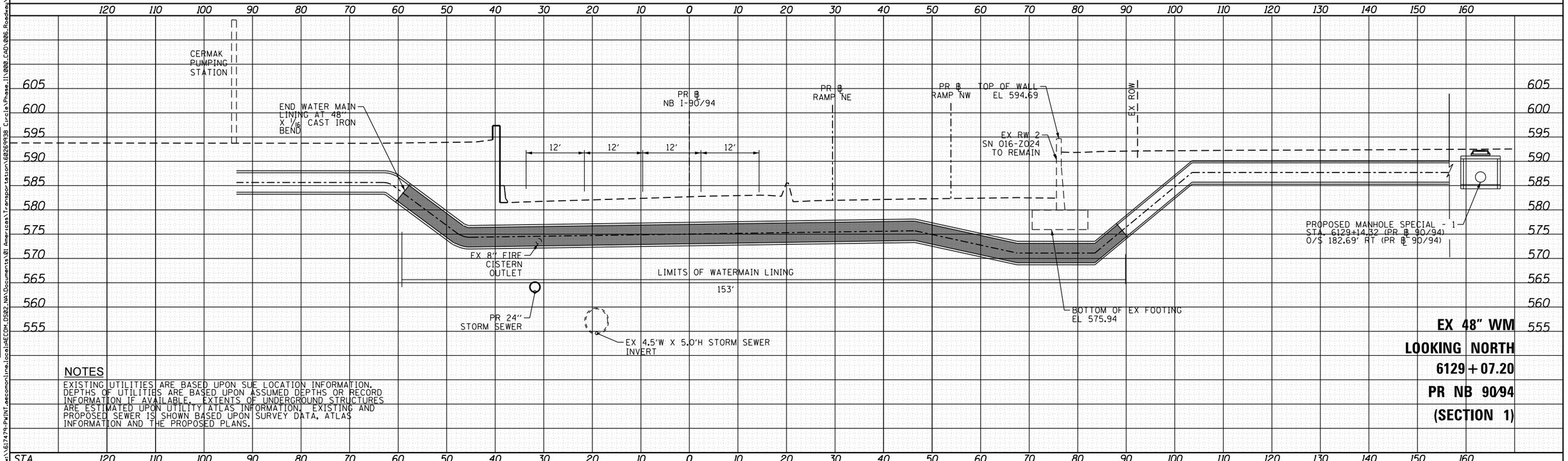
EX 48" WM
LOOKING NORTH
6129+48.98
PR NB 90/94
(SECTION 2)



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EX 48" WM
LOOKING NORTH
6129+07.20
PR NB 90/94
(SECTION 1)

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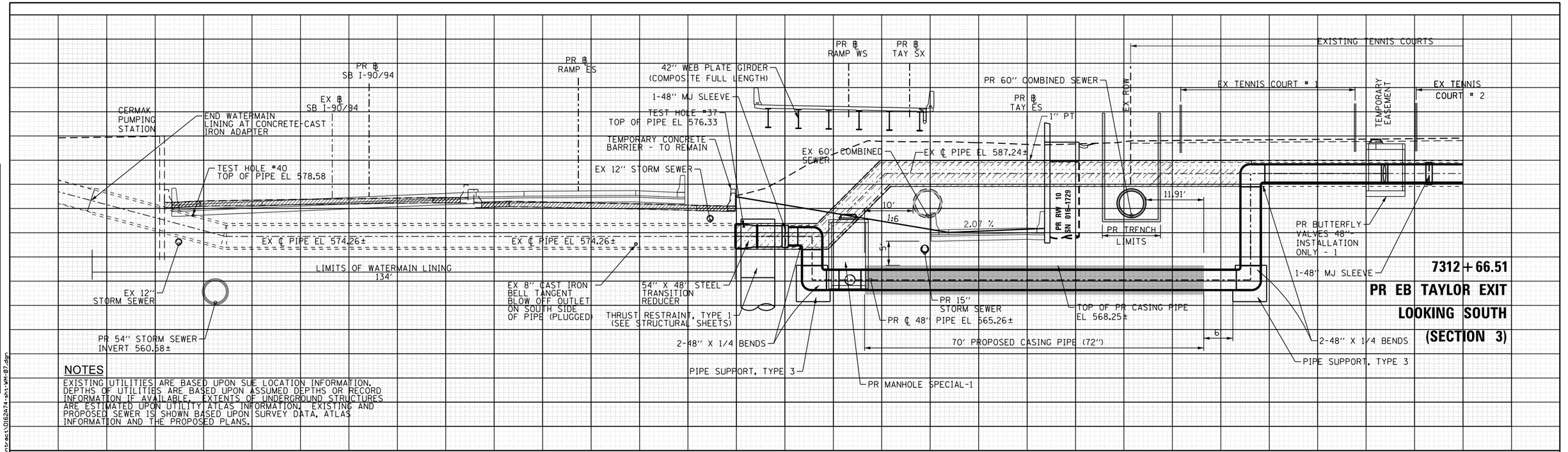
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CERMAK PUMPING STATION 54" SOUTHEAST WATER MAIN PROFILE
PROPOSED WATER MAIN LINING

SCALE: 1" = 10' | SHEET 6 OF 12 SHEETS | STA. 6129+07.20 | TO STA. 6129+48.98

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	112
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			



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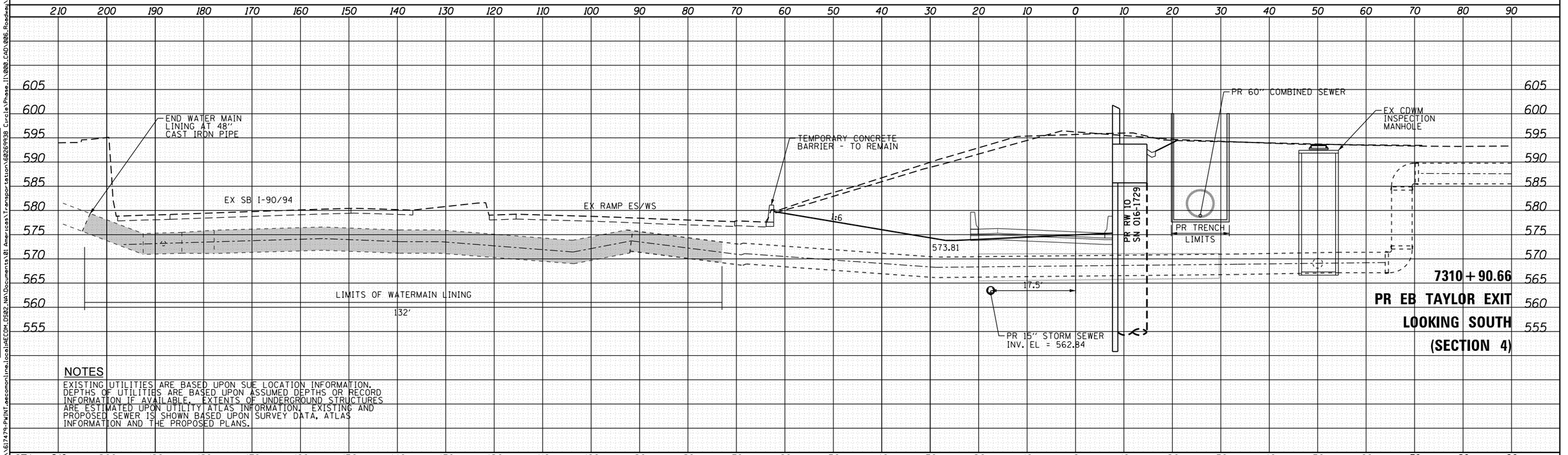

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FINAL SURVEY / ORIGINAL SURVEY — NOTE BOOK — NO. — BY — DATE
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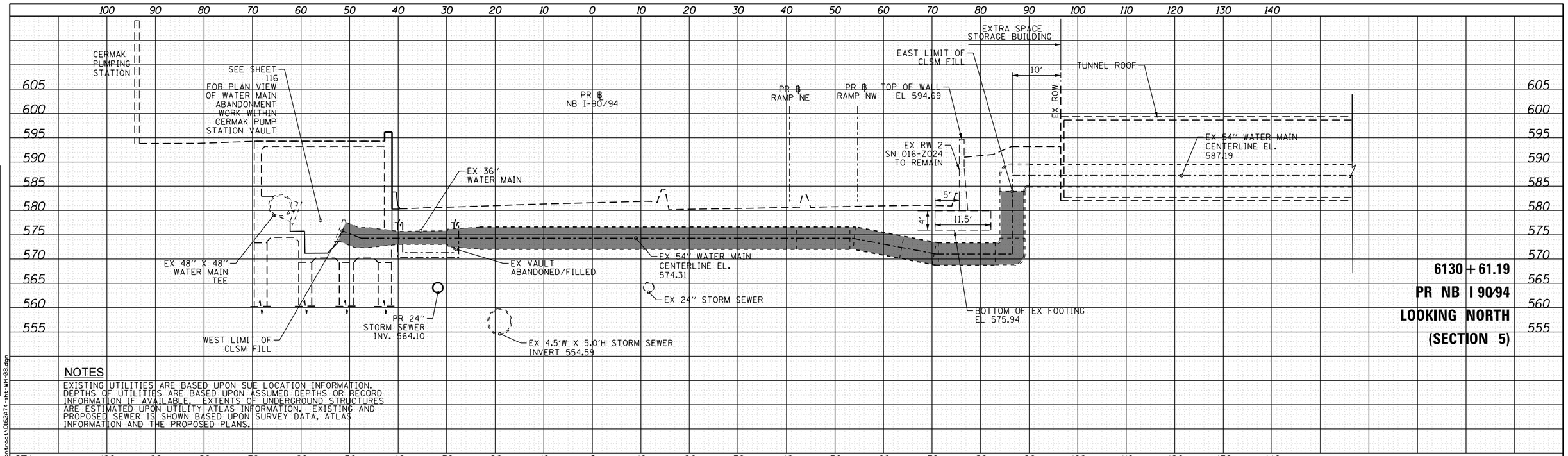
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CERMAK PUMPING STATION 54" WEST WATER MAIN PROFILE
PROPOSED WATER MAIN REPLACEMENT AND LINING

SCALE: 1" = 10' | SHEET 7 OF 12 SHEETS | STA. 7310+90.66 TO STA. 7310+90.66

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	113
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			



6130+61.19
PR NB I 90/94
LOOKING NORTH
(SECTION 5)

NOTES

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FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

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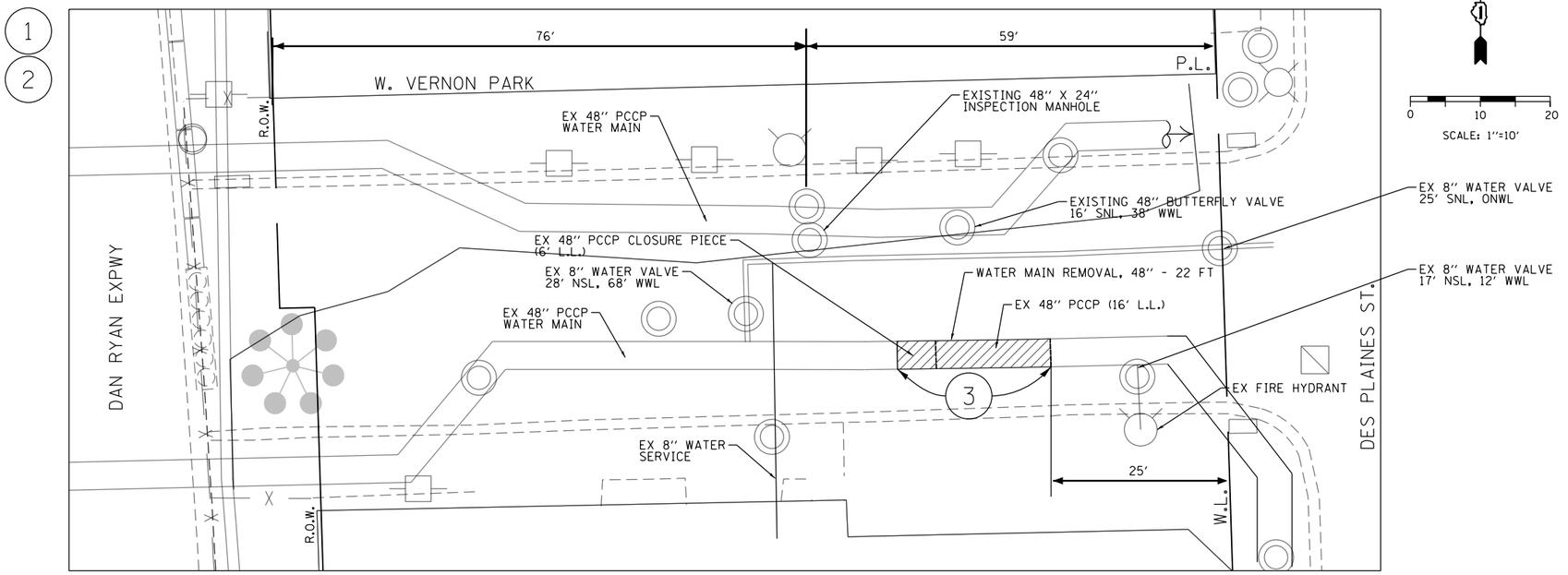
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CERMAK PUMPING STATION 54" NORTH EAST WATER MAIN SECTION
EXISTING WATERMAIN ABANDONED AND FILLED

SCALE: 1" = 10' | SHEET 8 OF 12 SHEETS | STA. 6130+61.19 | TO STA. 6130+61.19

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	114
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		

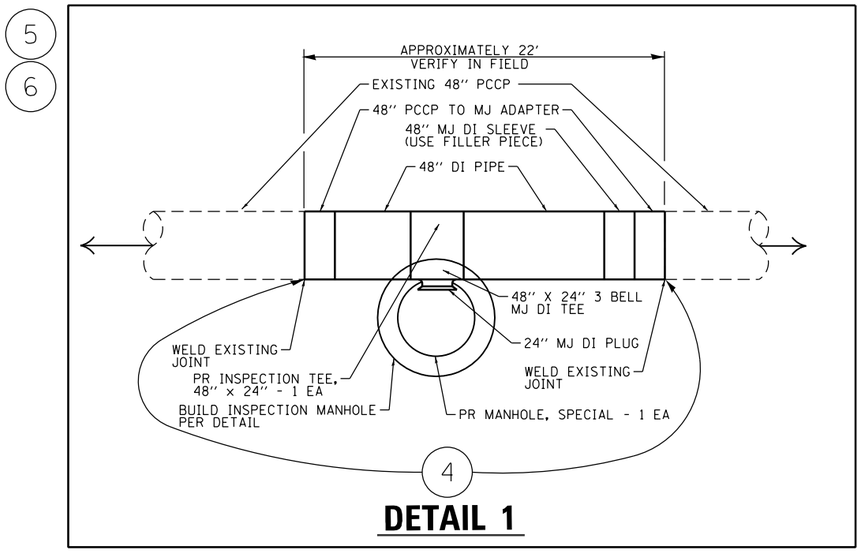
EXISTING



PLAN

1. DRAWINGS ARE BASED ON RECORD DRAWINGS RECEIVED FROM CHICAGO DEPARTMENT OF WATER MANAGEMENT (CDWM). IN ADVANCE OF PERFORMING THE WORK, THE CONTRACTOR SHALL EXCAVATE AND VERIFY IN THE FIELD THE LOCATION, SIZE, JOINT TYPE OF THE EXISTING 48" PIPE AND FITTINGS TO BE REMOVED WHERE THE PROPOSED CONNECTIONS ARE TO BE MADE.
2. CONTACT CHICAGO DEPARTMENT OF WATER MANAGEMENT (CDWM) TO ARRANGE FOR THE SHUTDOWN OF THE EXISTING 48" WATER MAIN (312-744-5070). NOTE: SHUTDOWN OF THIS WATER MAIN SHALL COMPLY WITH THE DATES SPECIFIED BY CDWM IN THE SPECIAL PROVISIONS.
3. EXCAVATE AND REMOVE 48" CLOSURE PIECE AND 1 LENGTH OF 48" CONCRETE PIPE TO THE EAST. CONTRACTOR SHALL OBSERVE CAUTION DURING THE REMOVAL SO AS TO NOT DAMAGE THE EXISTING 48" JOINTS ADJACENT TO THE REMOVAL WHERE THE NEW CONNECTIONS ARE TO BE MADE.
4. INSTALL 1-48" PCCP (VERIFY IN FIELD - SPIGOT OR BELL) X MECHANICAL JOINT BELL ADAPTER, 48" DI PIPE, 1-48" X 24" 3BMJ TEE, 48" DI PIPE, 1- 48" MJ SLEEVE AND 1-48" PCCP (VERIFY IN FIELD - SPIGOT OR BELL) X MECHANICAL JOINT SPIGOT ADAPTER. WELD THE PCCP JOINTS AT BOTH CONNECTIONS TO THE EXISTING PIPE. USE APPROVED RESTRAINED JOINT GLANDS AT ALL MJ JOINTS. INSTALL 1-24" MJ PLUG IN THE BRANCH OF TEE. BUILD INSPECTION MANHOLE (SEE DETAIL).
5. CONTACT CHICAGO DEPARTMENT OF WATER MANAGEMENT (CDWM) TO ARRANGE FOR OPENING CLOSED VALVES TO FILL, FLUSH, DISINFECT AND RESTORE SERVICE TO THE WATER MAINS THAT WERE SHUTDOWN. (312-744-5070). VISUALLY INSPECT ALL PIPE JOINTS FOR LEAKAGE BEFORE BACKFILLING.
6. RESTORE ALL WATER MAIN TRENCHES PER THE DETAILED DRAWINGS

PROPOSED



DETAIL 1

AECOM
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CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-sht-WM-09.dgn	DESIGNED - RBB	REVISED -
USER NAME = PIMSARND	DRAWN - CRH	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 5/15/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED PLAN: VERNON PARK PLACE

SCALE: 1"=10' | SHEET 9 OF 12 SHEETS | STA. XX+00 | TO STA. XX+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	115
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

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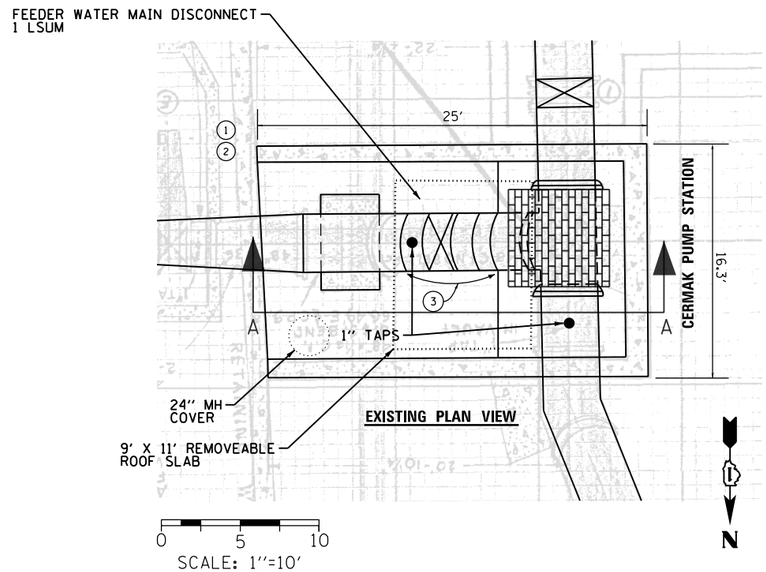
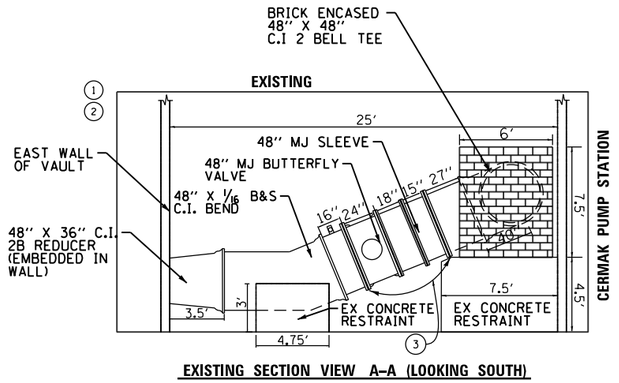
CAUTION:

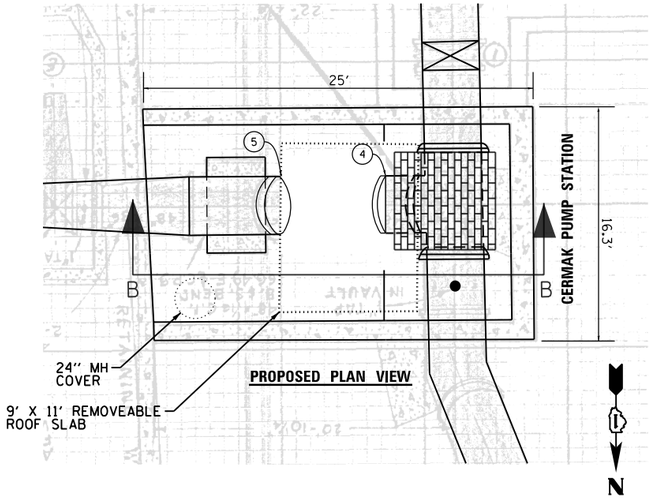
EXTREME CARE SHALL BE EXERCISED DURING ALL WORK IN ORDER TO AVOID DAMAGING EXISTING CAST IRON WATER MAIN PIPE AND FITTINGS, ALONG WITH EXISTING THRUST RESTRAINTS, AND THE VAULT STRUCTURE.

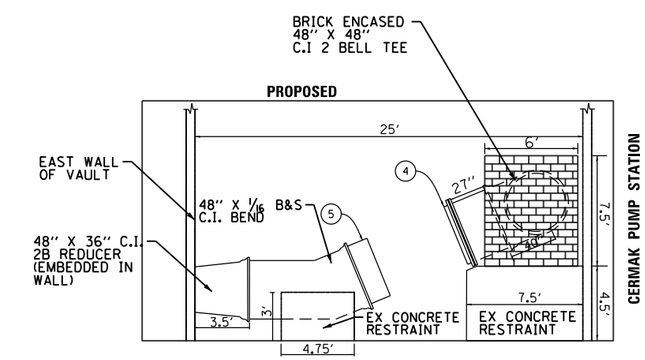
NOTES:

1. CONTACT CHICAGO DEPARTMENT OF WATER MANAGEMENT (CDWM) TO ARRANGE FOR THE SHUTDOWN OF THE EXISTING 54" WATER MAIN BETWEEN CERMAK PUMPING STATION AND DES PLAINES STREET (312-744-5070). NOTE: SHUTDOWN OF THIS WATER MAIN SHALL COMPLY WITH THE SCHEDULE APPROVED BY CDWM. COORDINATE WITH CDWM TO SHUT OFF ELECTRIC POWER TO THE VAULT. THE CONTRACTOR SHALL PERMANENTLY DISCONNECT THE ELECTRICAL CIRCUITS IN THE VAULT AND REMOVE ANY ELECTRICAL EQUIPMENT, CONDUIT, JUNCTION BOXES, AND OTHER APPURTENANCES BELOW THE PROPOSED CONCRETE THRUST RESTRAINT AND AS REQUIRED TO PERFORM THE FEEDER MAIN DISCONNECTION AND THRUST RESTRAINT WORK.
2. (AT CERMAK PS) TEMPORARILY SUPPORT 48" VALVE AND ADJACENT PIPING IN ADVANCE OF DISASSEMBLY WORK
3. REMOVE 48" MJ BUTTERFLY VALVE AND ELECTRIC OPERATOR, 48" NIPPLE PIECE AND 48" MJ SLEEVE. OFFER SALVAGED VALVE AND OPERATOR TO CDWM. IF CDWM DOES NOT WANT, PROPERLY DISPOSE OF THESE ITEMS ALONG WITH OTHER REMOVED MATERIALS.
4. INSTALL 1-48" MJ CAP WITH FOLLOWER RING ON 48" NIPPLE IN BRANCH OF 48" x 48" TEE. TEMPORARILY BRACE.
5. USE EXISTING 48" x 1/16 BEND AS FILL OR VENT POINT TO FILL ABANDONED 54" WATER MAIN WITH CLSM. REFER TO NOTES 6-10 ON SHEET 118 FOR THRUST RESTRAINT.









AECOM
303 EAST WACKER DRIVE, SUITE 1400
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PLOT SCALE = 48.8000 ' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 5/15/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

54" NORTHEAST WATER MAIN
EXISTING WATERMAIN ABANDONMENT
PLAN AND SECTION VIEWS AT CERMAK PUMP STATION TEE

SCALE: 1" = 10' | SHEET 10 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	116
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

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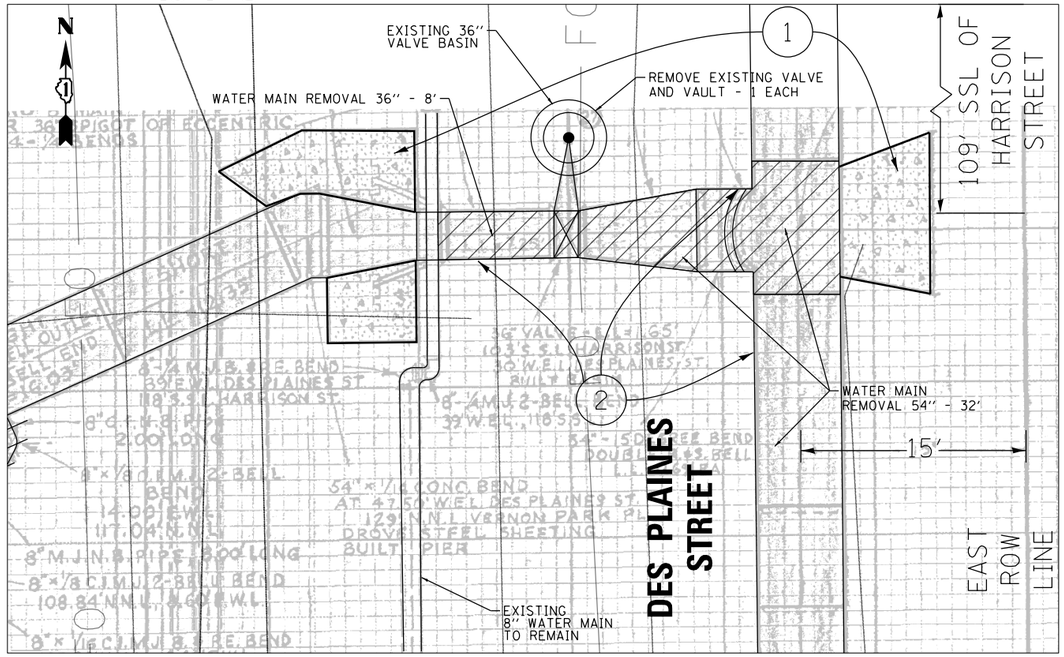
EXISTING



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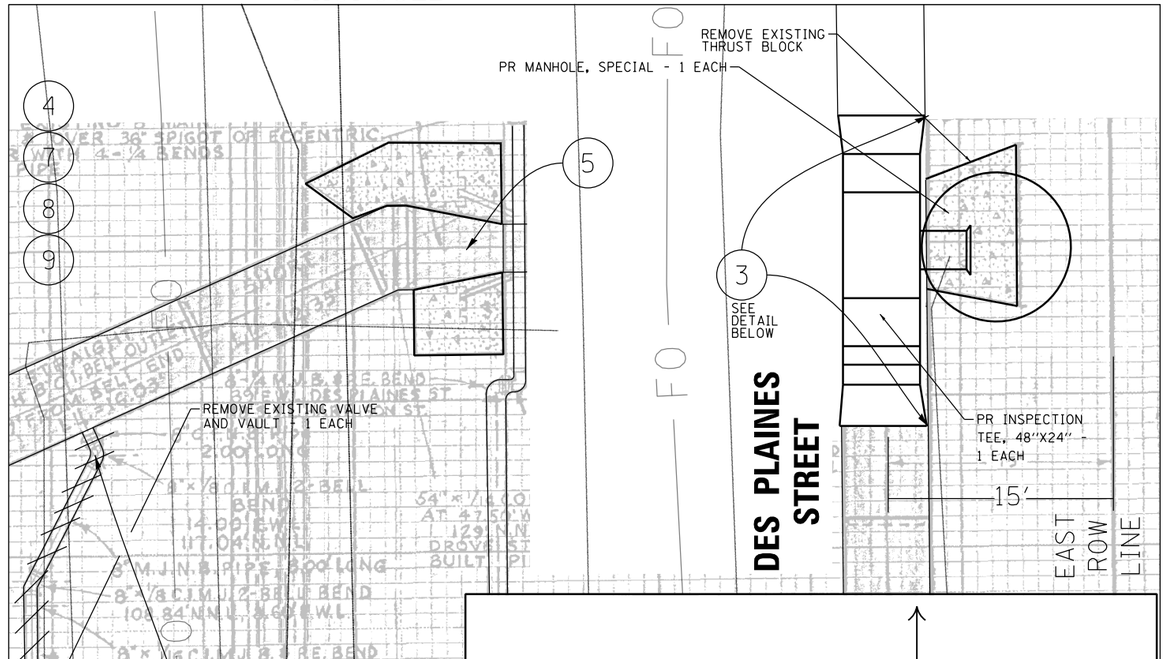

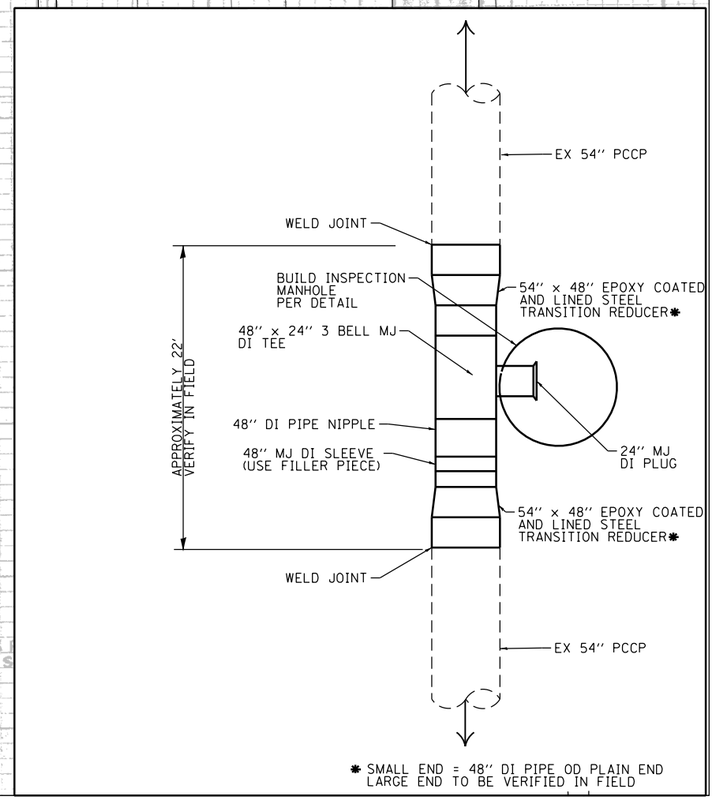

DETAIL 3

0 5 10
SCALE: 1"=5'

DETAIL 4

0 5 10
SCALE: 1"=5'

1. DRAWINGS ARE BASED ON RECORD DRAWINGS FROM CHICAGO DEPARTMENT OF WATER MANAGEMENT (CDWM). IN ADVANCE OF PERFORMING THE WORK, THE CONTRACTOR SHALL EXCAVATE AND VERIFY IN THE FIELD THE LOCATION, SIZE, JOINT TYPE OF THE EXISTING 54" PIPE AND FITTINGS TO BE REMOVED WHERE PROPOSED CONNECTIONS ARE TO BE MADE. (AT DESPLAINES STREET) BREAK OUT AND REMOVE CONCRETE AND STEEL SHEETING THRUST BLOCKS AS NECESSARY TO ACCESS THE PIPE AND FITTINGS TO BE REMOVED. REMOVAL OF THRUST BLOCKS PAID FOR AS CONCRETE REMOVAL (SPECIAL).
2. CUT OUT AND REMOVE 36" CAST IRON PIPE, 36" GATE VALVE AND VAULT, 54" X 36" CONCRETE REDUCER, 54" X 15 DEGREE CONCRETE BEND, 54" SPIGOT ADAPTOR, 54" X 54" CONCRETE TEE AND 1 LENGTH OF 54" CONCRETE PIPE. CONTRACTOR SHALL OBSERVE CAUTION DURING THE REMOVAL SO AS TO NOT DAMAGE THE EXISTING 54" JOINTS ADJACENT TO THE REMOVAL WHERE THE NEW CONNECTIONS ARE TO BE MADE.
3. INSTALL 1-54" X 48" EPOXY COATED AND LINED FABRICATED STEEL, TRANSITION REDUCER, 1-48" X 24" 3B MJ TEE, 48" MJ PIPE, 1- 48" MJ SLEEVE AND 1-54" X 48" EPOXY COATED AND LINED FABRICATED STEEL, TRANSITION REDUCER. INSTALL 24" MJ PLUG IN THE BRANCH OF TEE. BUILD INSPECTION MANHOLE (SEE DETAIL).
4. CONTACT CHICAGO DEPARTMENT OF WATER MANAGEMENT (CDWM) TO ARRANGE FOR OPENING CLOSED VALVES TO FILL, FLUSH, DISINFECT AND RESTORE SERVICE TO THE WATER MAINS THAT WERE SHUTDOWN. (312-744-5070).
5. INSTALL CONCRETE BULKHEAD IN 54" X 36" REDUCER TO ALLOW FOR FILLING OF THE ABANDONED 54" PIPE WITH CLSM.
6. EXCAVATE AND REMOVE EXISTING 8" X 1/8 BEND. INSTALL CONCRETE BULKHEAD IN 8" BRANCH OUTLET OF 54" PIPE TO ALLOW FOR FILLING OF THE ABANDONED 54" PIPE WITH CLSM. FILL AND ABANDON 8" VALVE BASIN AT 101' NNL OF VERNON PARK PLACE AND 8' EWL OF DES PLAINES STREET. REMOVE EXISTING FIRE HYDRANT AT 69' NNL OF VERNON PARK PLACE.
7. SUBMIT A PLAN TO THE ENGINEER FOR FILLING THE 54" WATER MAIN TO BE ABANDONED WITH CLSM. SEE SHEET 114 FOR LIMITS OF CLSM FILL. INCLUDE LOCATIONS WHERE THE PIPE WILL BE PENETRATED FOR FILLING AND VENTING, VOLUMES OF CLSM REQUIRED TO FILL, NUMBER OF LIFTS, AND QUALITY ASSURANCE PLAN FOR INSURING THERE ARE NO VOIDS.
8. AFTER APPROVAL OF THE PLAN, EXCAVATE AS REQUIRED TO INSTALL THE FILLING AND VENTING ACCESS. FILL THE 54" PIPE WITH CLSM BETWEEN THE ABANDONMENT LIMITS.
9. RESTORE ALL WATER MAIN TRENCHES PER THE DETAILED DRAWINGS
10. EXACT ORIENTATION & LOCATION OF INSPECTION MANHOLE SHALL BE CONFIRMED IN THE FIELD AFTER ALL UTILITIES WITHIN PROXIMITY HAVE BEEN EXPOSED. INSPECTION MANHOLE LOCATION SHOWN IN PLANS WAS POSITIONED TO AVOID CONFLICTS WITH UTILITIES AS SHOWN IN SUE SURVEY. REMOVE EXISTING THRUST RESTRAINT AS NEEDED TO INSTALL INSPECTION MANHOLE.

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PLOT SCALE = 10.0000 ' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 5/15/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

54" NORTHEAST WATER MAIN
EXISTING WATERMAIN ABANDONMENT
PLAN AND PROFILE VIEWS (AT DES PLAINES TEE)

SCALE: 1" = 10' | SHEET 11 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	117
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

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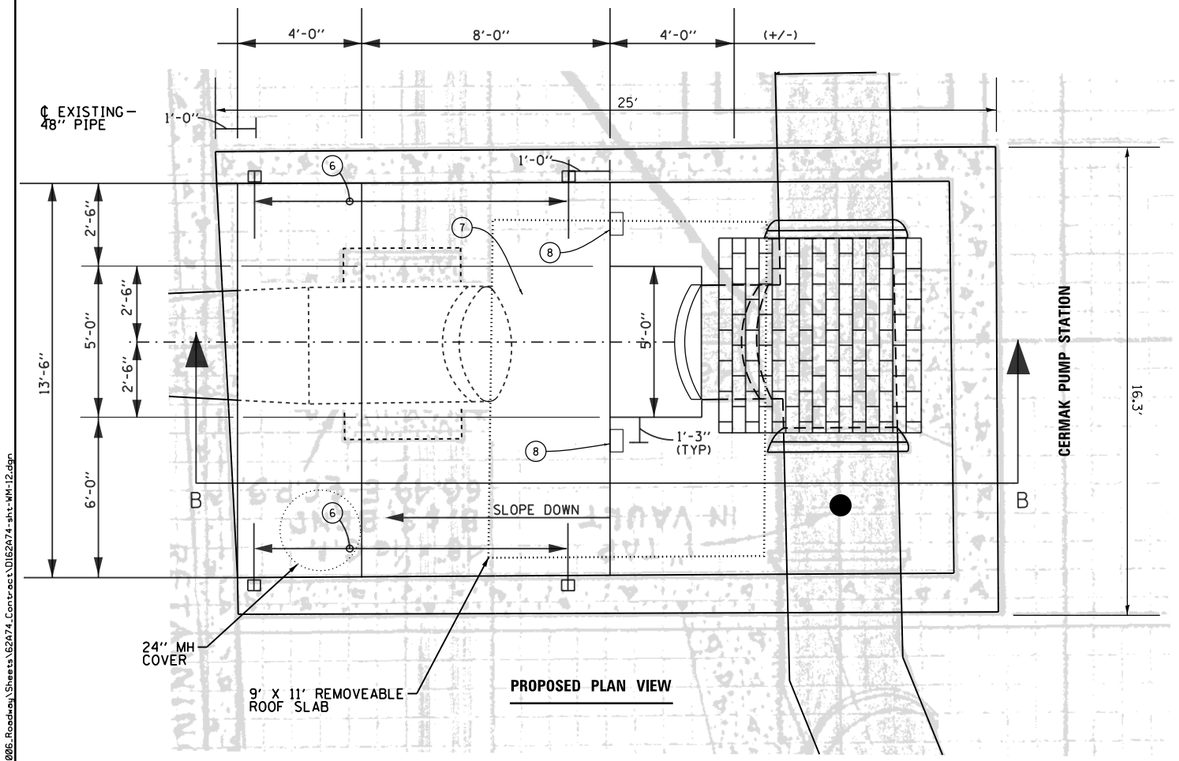

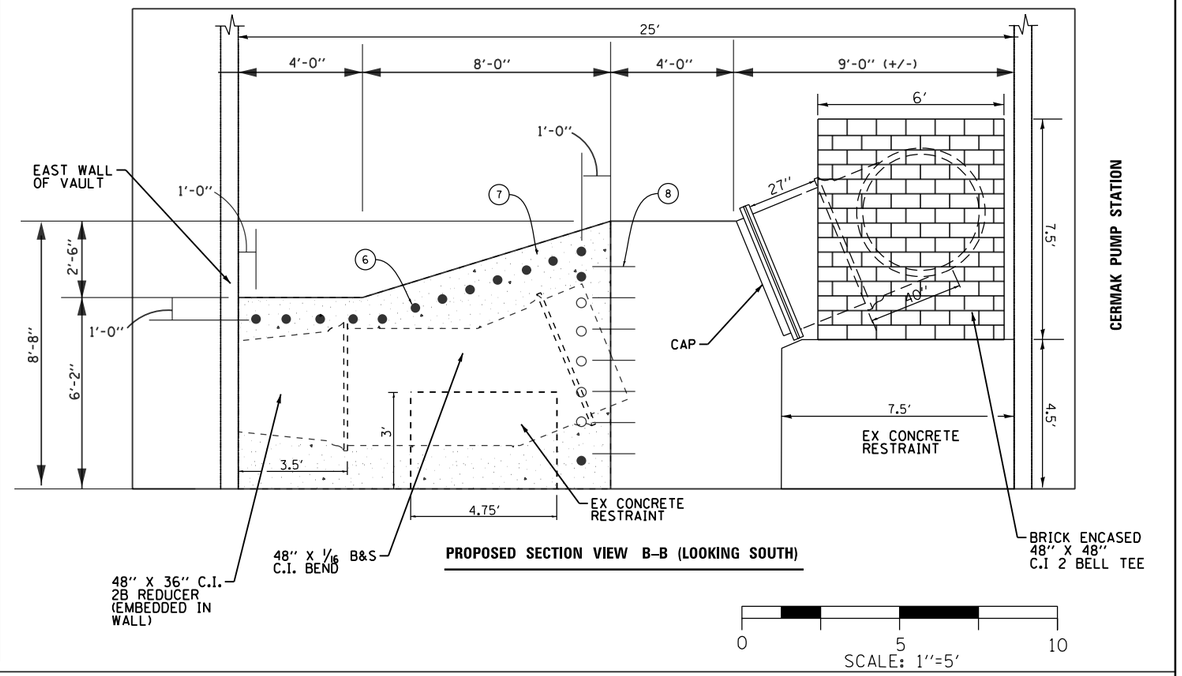

NOTES (CONTINUED):

6. DRILL AND GROUT 19-#7 @ 12" O.C. X 3'-0" LONG EPOXY COATED DOWELS 6" INTO EXISTING CONCRETE WALLS ON EACH SIDE OF CONCRETE THRUST RESTRAINT (38 DOWELS TOTAL) WITH AN EPOXY ADHESIVE GROUT. SEE SECTION AND PLAN VIEWS FOR LOCATION

7. PLACE PERMANENT CONCRETE THRUST RESTRAINT TO BRACE FACE OF CAP. DO NOT PLACE CONCRETE BEYOND FACE OF CAP AND DO NOT PLACE ANY CONCRETE AROUND PIPE JOINT ADJACENT TO CAP. CLEAN AND ROUGHEN EXISTING CONCRETE WALLS AND BASE SLAB AT THRUST RESTRAINT PRIOR TO PLACING CONCRETE THRUST RESTRAINT AGAINST WALLS AND BASE SLAB.

8. INSTALL STEPS AT 16" O.C.

9. ALL DIMENSIONS SHOWN TO EXISTING CONSTRUCTION AND ALL EXISTING CONDITIONS SHALL BE ASSUMED TO BE (+/-). CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY VARYING CONDITIONS FROM THAT SHOWN ON THIS DRAWING SO AS NOT TO DELAY CONSTRUCTION.

10. CONCRETE THRUST RESTRAINT, EPOXY REINFORCING BAR DOWELS, EPOXY ADHESIVE GROUT, STEPS, SURFACE PREPARATION OF EXISTING CONCRETE WALLS, AND ALL WORK COMPLETE AND IN PLACE TO INSTALL CONCRETE THRUST RESTRAINT SHALL BE PAID FOR AS PART OF "FEEDER WATER MAIN DISCONNECT".

AECOM
303 EAST WACKER DRIVE, SUITE 1400
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PLOT DATE = 5/15/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

54" NORTHEAST WATER MAIN
THRUST RESTRAINT
PLAN AND SECTION VIEWS AT CERMAK PUMP STATION TEE

SCALE: 1" = 10' | SHEET 12 OF 12 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	118
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		

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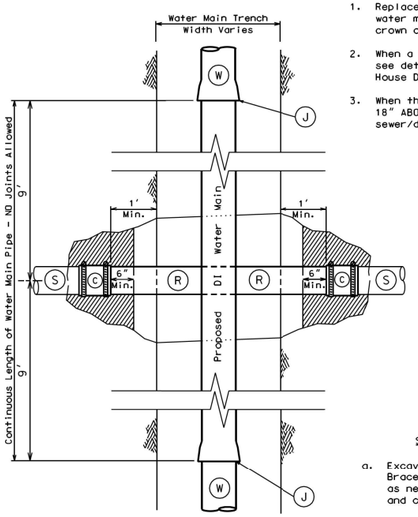
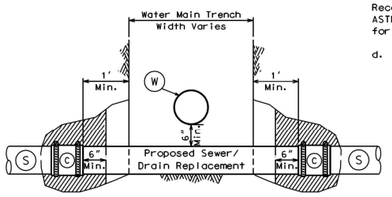


PLAN
No Scale



PROFILE THROUGH SEWER/DRAIN
No Scale

GENERAL NOTES

1. Replace the sewer/drain when the invert of the water main is LESS than 18" ABOVE the crown of the sewer/drain.
2. When a water main crosses UNDER a sewer/drain, see detail "Water Mains Crossing Under Sewers & House Drains."
3. When the invert of the water main is MORE than 18" ABOVE the crown of the sewer/drain, no sewer/drain replacement is required.

KEY TO SYMBOLS

- (W) Proposed DI Water Main
- (J) Proposed DI Water Main Joint (Continuous Pipe Between Joints)
- (S) Existing Sewer or House Drain
- (R) Proposed Sewer/Drain Replacement
- (C) Proposed ASTM C1173 Flexible Transition Coupling for Sewer Piping
- Proposed Bentonite Seal
- Undisturbed Soil

SEWER/DRAIN REPLACEMENT NOTES

a. Excavate as needed to replace sewer/drain. Brace and shore trenches and excavations as needed to provide safe working conditions and comply with applicable requirements.

b. Cut existing sewer/drain to remove section to be replaced; breaking or cracking is not allowed.

c. Replace the sewer/drain with a continuous length of ductile iron pipe, the same size as the sewer/drain, cut to fit. Reconnect the sewer/drain with ASTM C1173 Flexible Transition Couplings for Sewer Pipe.

d. Encase the couplings in medium bentonite chips (¼" – ⅜") mixed with enough clean water to form a stiff clay. Pack the excavations surrounding the couplings to seal off leaks.

e. Center a length of water main pipe (18' typically) over the sewer/drain crossing.

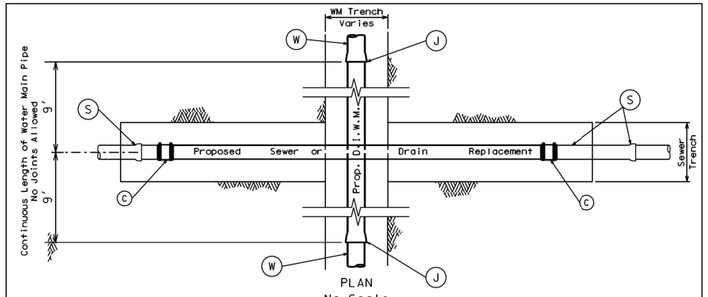
f. Except where bentonite seals are shown, backfill using typical standards.

g. Comply with IL EPA requirements (modified and approved by IL EPA November 13, 2007).

Rev:11.07

WATER MAINS CROSSING OVER
SEWERS & HOUSE DRAINS

D-19
SHT. 1 OF 2



PLAN
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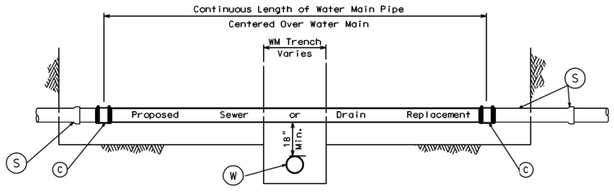


PROFILE THROUGH SEWER/DRAIN
No Scale

GENERAL NOTES

1. Replace the sewer/drain in all cases when a water main crosses UNDER the sewer/drain.
2. When a water main crosses OVER a sewer/drain, see detail "Water Mains Crossing Over Sewers & House Drains."

KEY TO SYMBOLS

- (W) Proposed DI Water Main
- (J) Proposed DI Water Main Joint (Continuous Pipe Between Joints)
- (S) Existing Sewer or House Drain
- (R) Proposed Sewer/Drain Replacement
- (C) Proposed ASTM C1173 Flexible Transition Coupling for Sewer Piping
- Undisturbed Soil

SEWER/DRAIN REPLACEMENT NOTES

a. Minimum clearance between the crown of the water main and the invert of the sewer/drain is 18".

b. Excavate as needed to replace sewer/drain. Brace and shore trenches and excavations as needed to provide safe working conditions and comply with applicable requirements.

c. Cut existing sewer/drain to remove section to be replaced; breaking or cracking is not allowed.

d. Replace the sewer/drain with a continuous length of ductile iron pipe, the same size as the sewer/drain, cut to fit. Reconnect the sewer/drain with ASTM C1173 Flexible Transition Couplings for Sewer Pipe.

e. Center a length of water main pipe (18' typically) under the sewer/drain crossing.

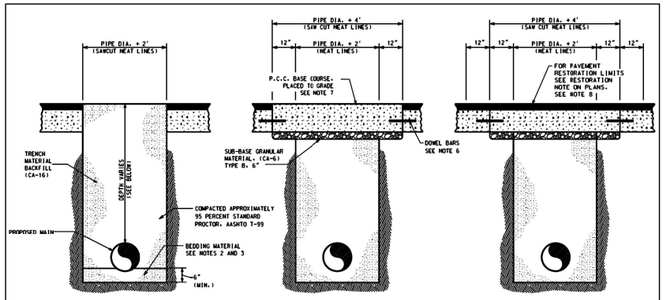
f. Backfill using typical standards.

g. Comply with IL EPA requirements.

REV:11.07

WATER MAINS CROSSING UNDER
SEWERS & HOUSE DRAINS

D-19
SHT. 2 OF 2



ROADWAY TRENCH – PHASE 1 | ROADWAY TRENCH – PHASE 2 | ROADWAY TRENCH – PHASE 3

PIPE DEPTH REQUIREMENTS	
MINIMUM DEPTH OF COVER FOR WATER MAINS	
SIZE OF PIPE	DEPTH OF COVER
¾" TO 3"	5'-6" ± 3"
4"	5'-6" ± 3"
6"	5'-6" ± 3"
8"	5'-3" ± 3"
12"	5'-0" ± 2"
16"	4'-6" ± 2"
24"	4'-0" ± 1"
30" TO 42"	3'-6" MIN. (SEE PLAN)
48" & LARGER	3' MIN. (SEE PLAN)

PHASE 1: BACKFILL CA-16 TO GRADE FOLLOWING THE INSTALLATION OF PROPSED WATER MAIN.

PHASE 2: P.C.C. BASE COURSE TO GRADE FOLLOWING THE APPROVAL OF PROPOSED MAIN AND SUCCESSFUL COMPLETION OF SERVICE TRANSFERS AND CONNECTIONS.

PHASE 3: FINAL PAVEMENT RESTORATION. LIMITS AS INDICATED ON PLANS.

PARKWAY TRENCH

GENERAL NOTES:

1. PROVIDE PIPE BEDDING TO A DEPTH OF ⅛ OF PIPE DIAMETER OR 6" MINIMUM OF COMPACTED GRANULAR MATERIAL, GRAVEL, OR CRUSHED STONE.
2. USE CA-16 BEDDING MATERIAL FOR PIPE SIZES UP TO 16-INCH DIAMETER.
3. USE CA-11 BEDDING MATERIAL FOR PIPE SIZES LARGER THAN 16-INCH DIAMETER.
4. ALL EXCAVATIONS MUST BE PROPERLY SHORED, SHEETED AND BRACED TO PROVIDE SAFE WORKING CONDITIONS. ALL IN COMPLIANCE WITH THE U.S. DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION STIPULATED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT. 10.S.M.A.1.
5. PLATE ALL UNATTENDED EXCAVATIONS IN PAVEMENT AREAS AND SECURE PLATES TO PAVEMENT AND PROVIDE BARRIERS IN PARKWAY AREAS.
6. DOWEL BARS SHALL BE #5 EPOXY COATED BARS, 18" LONG DRILLED, WITH 9" EMBEDMENT AND GROUTED AT 30" CENTERS. DOWEL BARS MAY BE OMITTED ON CDOT STREETS WHERE CLSM USED AS TRENCH BACKFILL.
7. FOLLOWING THE APPROVAL OF PROPOSED MAIN AND SUCCESSFUL COMPLETION OF SERVICE TRANSFERS AND CONNECTIONS, PLACE CONCRETE BASE COURSE FLUSH TO GRADE. THE ADDITIONAL THICKNESS IS TO BE REMOVED DURING PAVEMENT RESTORATION WORK. FINAL CONCRETE BASE THICKNESS MUST BE PER C.D.O.T. AND I.D.O.T. REQUIREMENTS. WHEN THE THICKNESS OF THE EXISTING ROADWAY BASE MATERIAL IS LESS THAN THE MINIMUM THICKNESS INDICATED IN THE PLANS, THE BOTTOM OF BASE MATERIAL WILL EXTEND BELOW THE BOTTOM OF THE BASE MATERIAL OF THE EXISTING PAVEMENT.
8. FINAL PAVEMENT RESTORATION SHALL BE COMPLETED AS INDICATED IN THE RESTORATION NOTE ON THE PLANS AND IN COMPLIANCE WITH C.D.O.T. AND STANDARDS. THE C.D.O.T. STREET PAVEMENT RESTORATION DETAIL HAS BEEN INCLUDED IN THESE DETAILS FOR REFERENCE.
9. ~~EXCAVATED MATERIAL MAY BE USED IN PLACE OF (CA-16) IN PARKWAY TRENCHES, THE MATERIAL MUST BE PULVERIZED AND APPROVED BY THE COMMISSIONER.~~

REV:05.09

WATER MAIN TRENCH PHASE DETAILS

D-8

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-Sht-WM-Det-01.dgn	DESIGNED - -	REVISED -	
USER NAME = dshevaz	DRAWN - CRH	REVISED -	
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PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN DETAILS

SCALE: | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	119
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		

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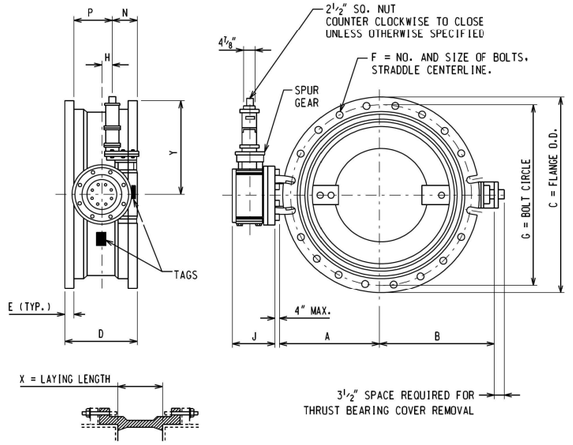
VALVE SIZE	A	B	C	D	E	F	G	X
24-INCH	18 5/8"	18 5/8"	31 5/16"	13 1/4"	1 5/8"	16 3/4"	30"	6 3/8"
30-INCH	21 1/2"	24 3/8"	39"	18"	1 13/16"	20 1"	36 7/8"	10"
36-INCH	25 7/16"	28 1/4"	45 7/8"	22"	2"	24 1"	43 3/4"	14"
42-INCH	29 7/8"	32 7/8"	53"	22"	2"	28 1 1/4"	50 5/8"	14"
48-INCH	34 1/16"	37 1/8"	59 7/8"	24"	2"	32 1 1/4"	57 1/2"	16"

OPERATOR SIZE	J	L	M	N	P	O	Y	VALVE	NO. OF TURNS
T-425	7 3/8"	6"	7 1/8"	6 7/8"	9 1/2"	6 5/8"	24"	36"	75
T-425	8"	6 5/8"	7 1/8"	6 7/8"	9 1/2"	6 5/8"	24"	48"	127



INSTALLATION DIAGRAM

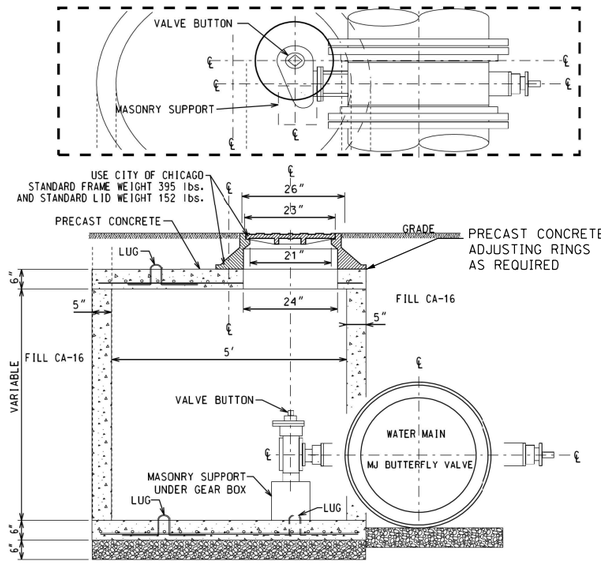
NOTE:

1. BUTTERFLY VALVES SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA SPECIFICATION C-504-87, CLASS 150B, SHORT BODY VALVE WITH MECHANICAL JOINT ACCESSORIES.
2. OPERATORS ARE EQUIPPED WITH OPEN/CLOSE INDICATING ARROW. ASSEMBLY OPEN CLOCKWISE.

REV:07.07

BUTTERFLY VALVE

FM-13



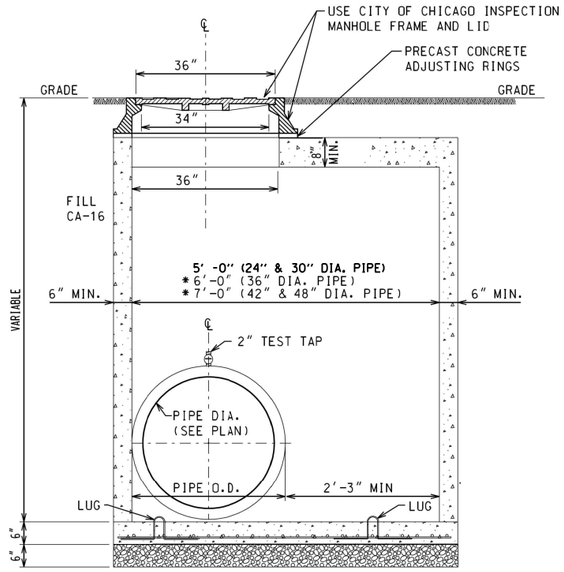
NOTES:

1. PRECAST CONCRETE TOP SLAB TO BE USED WHERE HEAD ROOM IS REQUIRED.
2. PRECAST 6" THICK CONCRETE SLAB WITH #4 EPOXY COATED REBARS 4" C/C BOTHWAYS.
3. PROVIDE FOUR #4 REBAR LUGS FOR HANDLING. CUT THE LUGS AFTER PLACING THE SLAB IN POSITION.
4. PROVIDE 24-INCH DIAMETER OPENING IN THE CENTER OR AS REQUIRED.
5. THE LOCATION OF MANHOLE TO BE DETERMINED ON INDIVIDUAL BASIS.
6. PROVIDE 6" THICK COMPACTED CA-16 BEDDING.

REV:07.07

BUTTERFLY VALVE BASIN
PRECAST CONCRETE

FM-15



SECTIONAL VIEW
SCALE: N.T.S.

NOTE:

1. PROVIDE 6" THICK COMPACTED CA-16 BEDDING
2. USE PRECAST CONCRETE BASE OR PROVIDE 6" THICK IDOT CLASS 'SI' CONCRETE BASE POURED IN PLACE WITH #4 EPOXY COATED REBARS 4" C/C BOTH WAYS.
3. PROVIDE FOUR #4 REBAR LUGS FOR HANDLING. CUT THE LUGS AFTER PLACING THE SLAB IN POSITION.
4. PRECAST CONCRETE TOP SLAB TO BE USED WHERE HEAD ROOM IS REQUIRED.
5. THE LOCATION OF MANHOLE TO BE DETERMINED ON INDIVIDUAL BASIS.
* 6. OPENING ON TOP SLAB TO BE CENTERED OVER TEST TAP.

REV:07.07

PITOMETER TAP BASIN
PRECAST CONCRETE

FM-4

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN DETAILS

SCALE: | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	120

CONTRACT NO. 62A74

ILLINOIS | FED. AID PROJECT

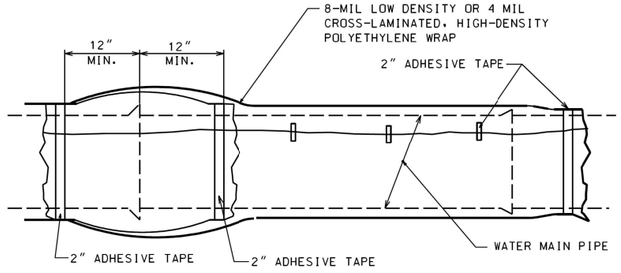


CHART "A" POLYWRAP FLAT TUBE WIDTHS		
PIPE DIAMETER (IN.)	D.I.P. WITH PUSH-ON JOINTS (IN.)	D.I.P. WITH MECHANICAL JOINTS (IN.)
4	14	16
6	17	20
8	21	24
12	29	30
16	37	37
24	53	53
36"	81	81

NOTES:

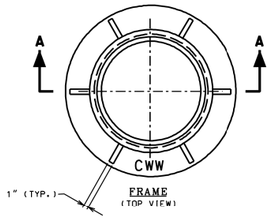
1. USE ONE LENGTH OF POLYETHYLENE TUBE WRAP FOR EACH LENGTH OF PIPE. OVERLAPPED AT PIPE JOINTS AND FOLD EXCESS OVER TOP OF TUBE FOR SLACK REDUCTION.

2. USE CHART "A" TO SELECT SIZE OF WRAP.

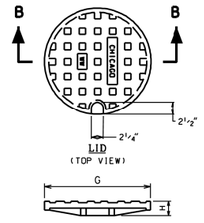
REV:04.09

WATER MAIN POLYETHYLENE WRAP DETAIL

D-10



SECTION A-A



SECTION B-B

NOTES:
LETTERING FOR CHICAGO W.W. ON THE LID SHALL BE 1" SHARP FACE GOTHIC LETTERS, 3/16" WIDE AND RAISED 1/8" FROM 1/8" RECESS AS MEASURED FROM THE TOP SURFACE OF THE LID.

LETTERING FOR C.W.W. ON THE FRAME SHALL BE LOCATED ON THE TOP SURFACE OF THE HORIZONTAL FLANGE AND SHALL BE 1" SHARP FACE GOTHIC, 3/16" WIDE AND RAISED 1/8" AS MEASURED FROM THE FLANGE SURFACE. LOCATION OF LETTERING SHALL BE AS INDICATED ON DRAWING.

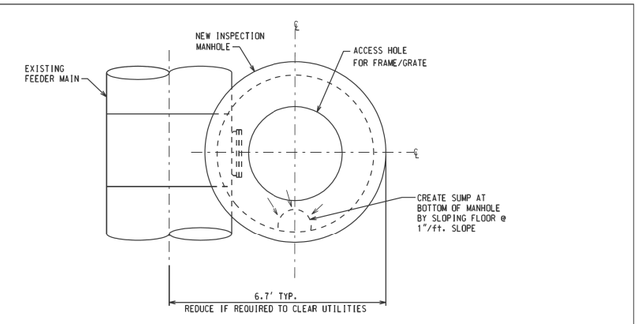
FRAME AND LID DIMENSIONS		
	FRAME AND LID TYPES	
	STANDARD	36" SPECIAL F&L
DIMENSION	INCHES	INCHES
A	26	-
B	23	36
C	21	34
D	9	8 1/2
E	24	36
F	36	45
G	22 3/4	36
H	3	1 1/2
I	6	4 1/2

FRAME AND LID WEIGHTS		
	FRAME AND LID TYPES	
	STANDARD	36" SPECIAL F&L
	LBS	LBS
LID	152	-
FRAME	395	-
TOTAL	547	720

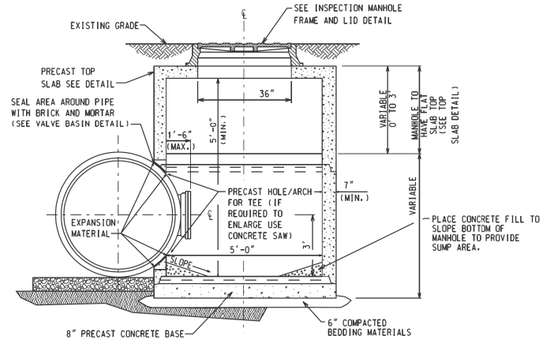
REV:04.07

FRAME & LID

D-15



PLAN



SECTIONAL VIEW

NOTE:
ALL OPENINGS IN BASIN SHALL BE SEALED WITH "NO SHRINK" GROUT.

REV:04.07

INSPECTION MANHOLE

FM-1

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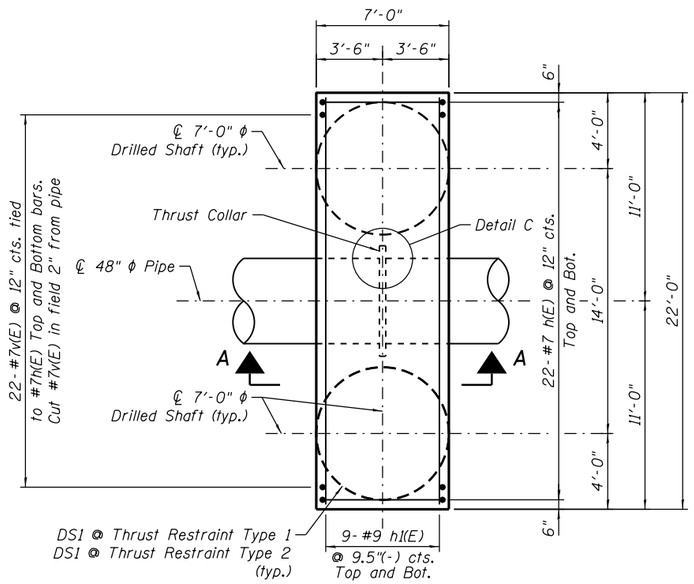
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

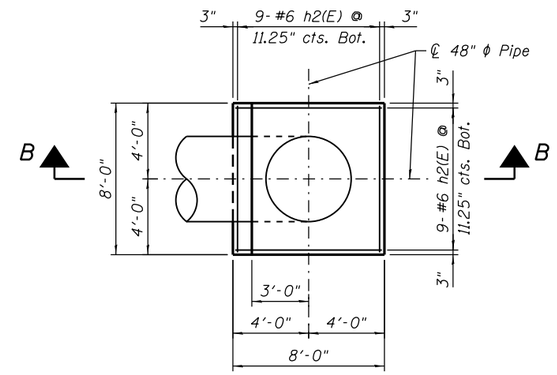
WATER MAIN DETAILS

SCALE: | SHEET 3 OF 3 SHEETS | STA. | TO STA.

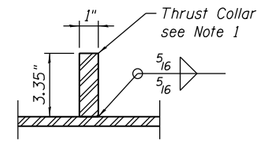
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	121
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		



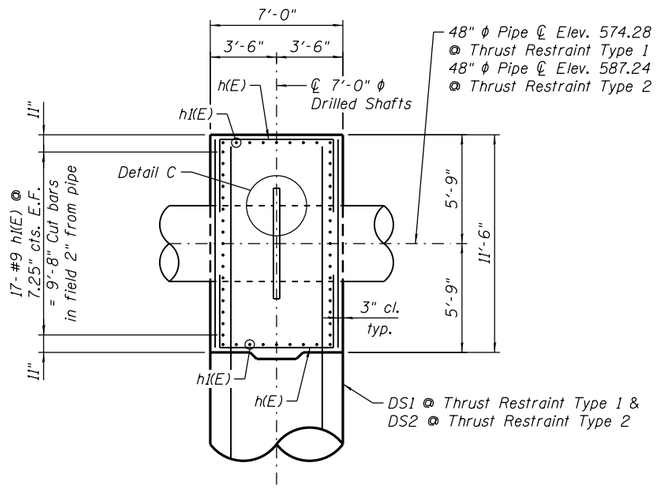
PLAN DETAIL
THRUST RESTRAINT - TYPES 1 AND 2



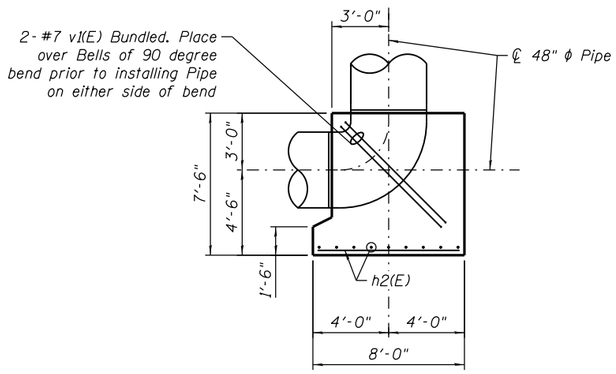
PLAN DETAIL
PIPE SUPPORT - TYPE 3
(2 Required)



DETAIL C



SECTION A-A



SECTION B-B

NOTES:

1. Thrust Collar and Water Main Pipe will be paid for as "Ductile Iron Water Main, Mechanical Joint 48".
2. Thrust Collar material to match pipe material. work this sheet with Sheet No. 123 .

AECOM
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CHICAGO, IL 60601-5276
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

THRUST RESTRAINT DETAILS AND SECTIONS
SOUTHWEST WATER MAIN

SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	122
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		

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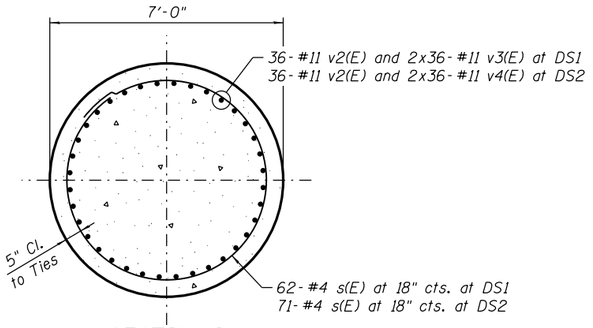
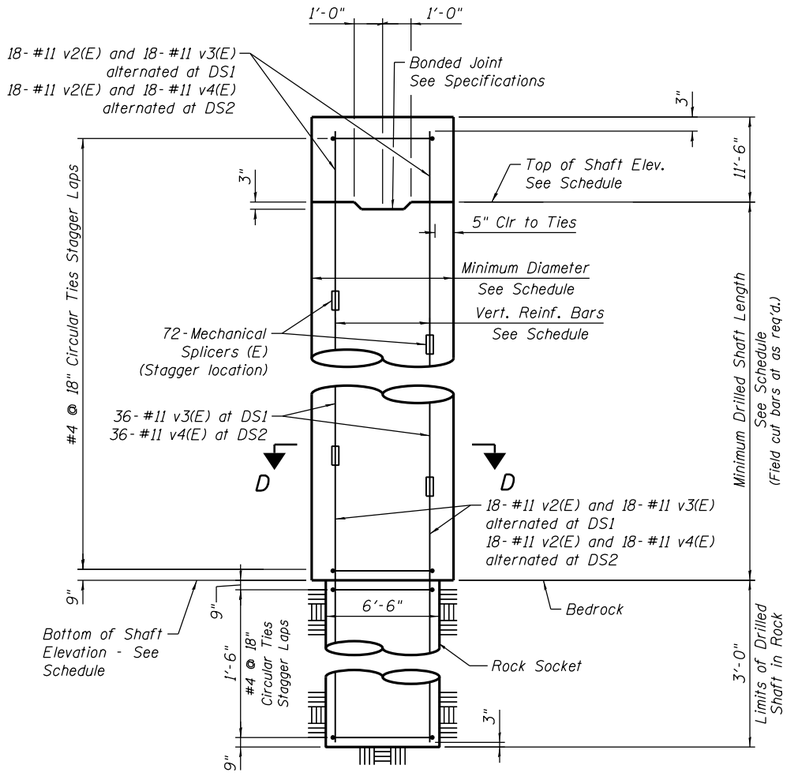


SECTION D



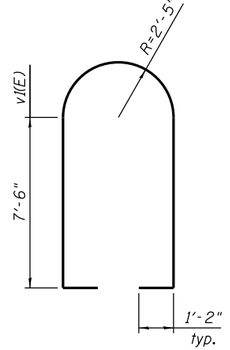
Note:
For Shaft Construction, See Note 8.

TYPICAL DRILLED SHAFT DETAIL

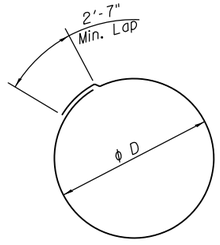
No Scale

NOTES:

1. For water main general notes, location plans, profiles, details and thrust restraint locations and types see Sheet Nos. 106 through 121. For existing water main reference drawings, see Sheet Nos. 124 through 142.
2. Exact locations of existing water mains, existing concrete thrust blocks and existing below grade structures and utilities shall be determined in the field prior to excavation for water mains and drilling shafts for new reinforced concrete thrust restraints and pipe supports. Any conflicts with existing structures and utilities due to field conditions encountered that will impact construction shall be brought to the attention of the Engineer, so as not to delay construction, along with detailed locations of conflicting structures and utilities and suggested solutions to resolve the conflict for Engineer review and approval.
3. Contractor shall protect existing buried and above ground structures and utilities that are to remain during construction of the water main and thrust restraints. The cost of such protection shall be considered included within the cost of the 48-inch water main relocation pay item.
4. New permanent concrete thrust restraints shall have been in place for a minimum of 28 days and shall have achieved a minimum 28 day compressive strength of 4000 psi prior to pressure testing pipe with water.
5. Maximum test pressure for water mains = 100 psi.
6. Fitting bends shall not be encased in concrete unless otherwise noted on the drawings. Minor adjustments to concrete dimensions and reinforcing bars shown may be required in the field and shall be considered included within the cost of the respective pay item.
7. Trench excavation and backfill for thrust restraint shall be considered included within the cost of the 48-inch water main relocation pay item.
8. Contractor shall review Geotechnical Report and boring logs in his selection of methods to support the excavation in the various stages of shaft drilling, cleaning and concrete placement dependent on the boring logs and site conditions encountered. Surface water shall not be permitted to enter the hole. The Contractor shall comply with the requirements of the Illinois Department of Transportation (IDOT) and the various infrastructure departments of the City of Chicago, including, but not limited to, the Chicago Department of Transportation (CDOT), the Office of Underground Coordination (OUC) and the Department of Water Management (DWM).
9. Concrete Cover:
   a. Concrete placed against earth - 3"
   b. Concrete in contact with earth - 2" (U.O.N.)
10. All work to conform to IDOT Standard Specifications for Road and Bridge Construction, latest edition.
11. Work this sheet with Sheet No. 122.

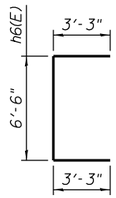


BAR v1(E)



BAR	ϕ D
s(E)	6'-2"

TIES



BAR h(E)

LEGEND

DS - Drilled Shaft

THRUST RESTRAINTS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	88.00	#7	13'-0"	———
h1(E)	36.00	#9	21'-6"	———
h2(E)	36.00	#6	7'-6"	———
v(E)	88.00	#7	11'-0"	———
v1(E)	4.00	#7	21'-2"	———
v2(E)	144.00	#11	40'-0"	———
v3(E)	144.00	#11	26'-3"	———
v4(E)	144.00	#11	32'-9"	———
s(E)	272.00	#4	22'-0"	○
Item			Unit	Quantity
Reinforcement Bars, Epoxy Coated			Pound	87,270
Concrete Structures			Cu. Yd.	155
Drilled Shaft In Soil			Cu. Yd.	485
Drilled Shaft In Rock			Cu. Yd.	15
Mechanical Splicers			Ea.	288

SCHEDULE FOR DRILLED SHAFTS IN SOIL

MARK	TOTAL QUANTITY	ELEV. ℄ WATERMAIN (FEET)	ELEV. TOP OF DRILLED SHAFT (FEET)	ELEV. BOTTOM OF DRILLED SHAFT (FEET)	MINIMUM DRILLED SHAFT LENGTH (FEET)	MINIMUM DRILLED SHAFT DIAMETER (FEET)	VERTICAL REINFORCEMENT BARS AT EACH SHAFT	MECHANICAL SPLICERS AT EACH SHAFT	CIRCULAR TIES AT EACH SHAFT	SECTION	THRUST RESTRAINT TYPE
DS1	2	574.26	568.51	490.00	78.51	7'-0"	36-#11 v2(E) and 2x36-#11 v3(E)	72	62-#4 s(E) @ 18"	D	1
DS2	2	587.24	581.49	490.00	91.49	7'-0"	36-#11 v4(E) and 2x36-#11 v5(E)	72	71-#4 s(E) @ 18"	D	2

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

THRUST RESTRAINT DETAILS AND SECTIONS
SOUTHWEST WATER MAIN

SCALE: | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	123
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

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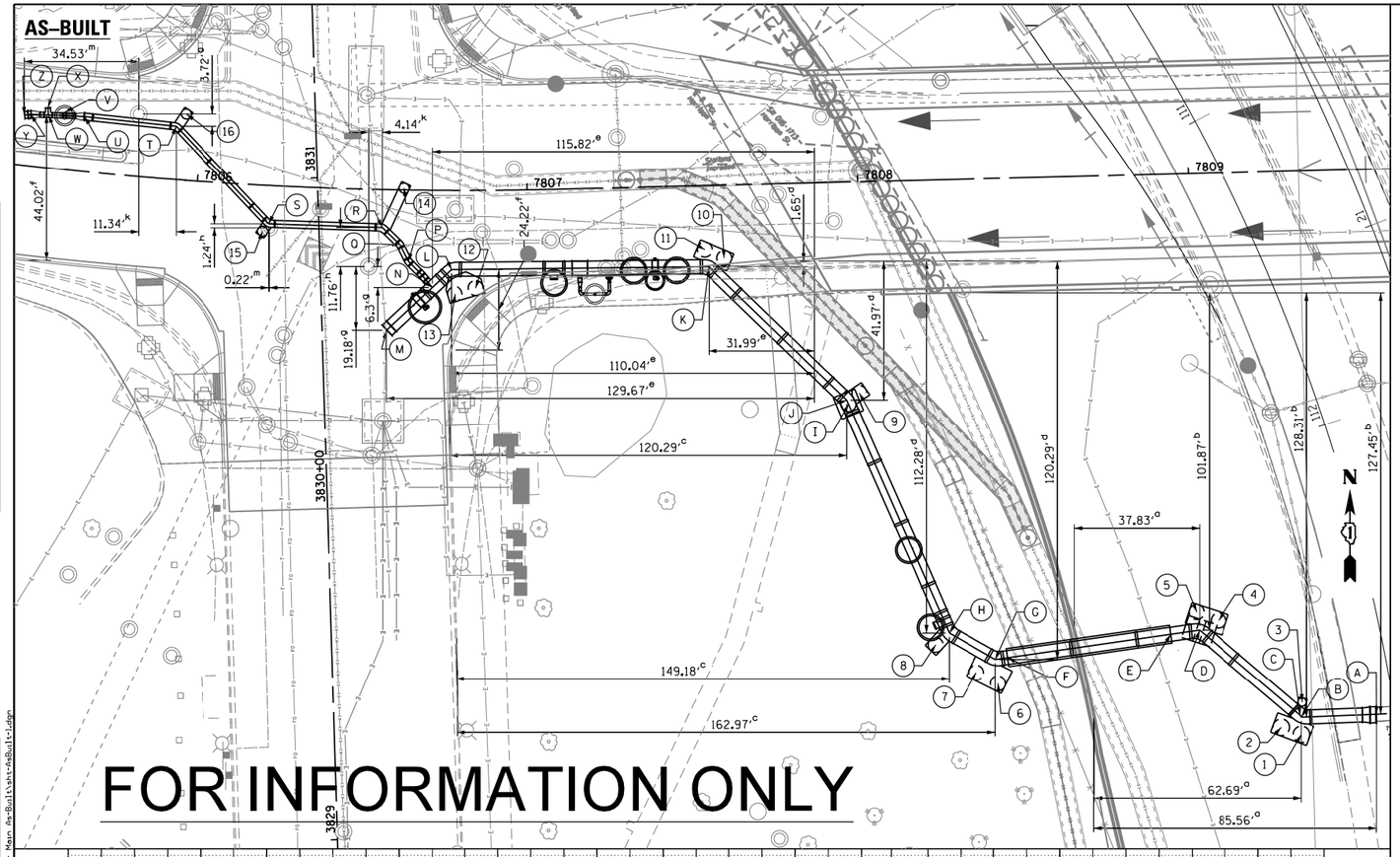
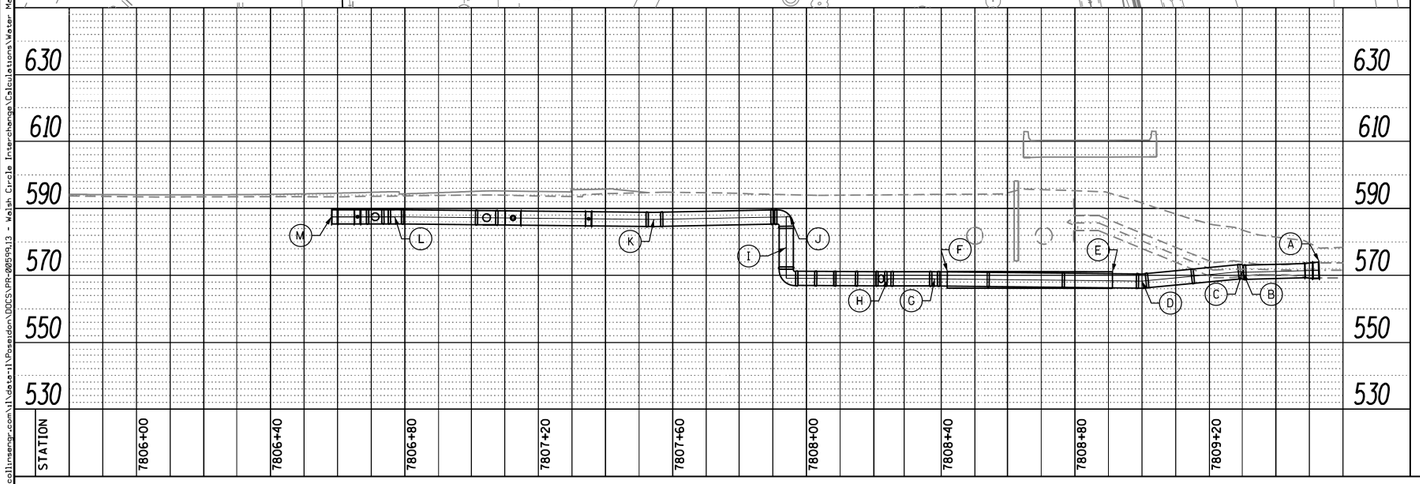
AS-BUILT



FOR INFORMATION ONLY



℄ 48"Ø WATER MAIN AS-BUILT:

A. TIE-IN TO EXISTING WATER MAIN
7809+52.91 @ 164.78' RT
TOP/PIPE EL. 573.71'

B. ℄ BEND
7809+30.2 @ 165.07' RT
℄ EL. 570.82'

C. ℄ BEND
7809+29.85 @ 164.49' RT
℄ EL. 571.09'

D. ℄ BEND
7808+99.97 @ 137.87' RT
℄ EL. 568.24'

E. END OF CASING
7808+91.20 @ 139' RT
TOP EL. 571.03'

F. END OF CASING
7808+41.83 @ 145.44' RT
TOP EL. 571.12'

G. ℄ BEND
7808+38.09 @ 145.22' RT
℄ EL. 568.89'

H. ℄ BEND
7808+24.26 @ 136.86' RT
℄ EL. 568.91'

I. ℄ RISER
7807+94 @ 66.25' RT
TOP EL. 587.55'
BOTTOM EL. 569.05'
TOP THRUSH EL. 572.55'

J. ℄ BEND
7807+95.06 @ 65.80' RT
℄ EL. 587.47'

K. ℄ BEND
7807+54.38 @ 24.46' RT
℄ EL. 586.65'

L. ℄ BEND
7806+77.01 @ 23.86' RT
℄ EL. 587.47'

M. TIE-IN TO EXISTING WATER MAIN
7806+58.13 @ 42.36' RT
℄ EL. 587.47'

℄ 24"Ø WATER MAIN AS-BUILT:

N. 24" TEE
7806+71.34 @ 29.22' RT
EL. 587.29' @ ℄ 48"Ø W.M.

O. ℄ 24" ø BEND
7806+67.88 @ 25.13' RT
℄ EL. 587.37

P. ℄ 24" ø BEND
7806+64.20 @ 21.48' RT
℄ EL. 583.75'

Q. ℄ 24" ø BEND
7806+61.71 @ 16.58' RT
℄ EL. 583.45'

R. ℄ 24" ø BEND
7806+56.33 @ 11.94' RT
℄ EL. 588.61'

S. ℄ 24" ø BEND
7806+22.30 @ 11.56' RT
℄ EL. 587.7'

T. ℄ 24" ø BEND
7805+92.43 @ 16.18' LT
℄ EL. 587.90'

U. 24" x 16"
7805+64.17 @ 16.65' LT
TOP/PILE EL. 588.50'

V. TOP/VALVE
7805+58.08 @ 16.63' LT
EL. 590.15'

W. 16" x 12" TEE @ TOP/PIPE
7805+53.14 @ 16.01' LT
EL. 587.74'

X. ℄ 12" ø BEND & TOP
7805+52.75 @ 18.23' LT
EL. 588.51

Y. 24" x 16"
7805+47.8 @ 15.57' LT
TOP/PIPE EL. 588.25'

Z. 24" TIE-IN
7805+45.90 @ 15.17' LT
TOP/PIPE 588.13'

THRUST BLOCK AS-BUILT AT 48"Ø WATER MAIN:

1. THRUST BLOCK
7809+30.1 @ 170.27' RT
EL. 566.89'

2. THRUST BLOCK
7808+24.04 @ 167.98' RT
EL. 566.55'

3. THRUST BLOCK
7809+30.56 @ 160.54' RT
EL. 568.98'

4. THRUST BLOCK
7809+05.77 @ 135.11' RT
EL. 566.51'

5. THRUST BLOCK
7808+99.16 @ 132.40' RT
EL. 566.54'

6. THRUST BLOCK
7808+38 @ 152.56' RT
EL. 567.15'

7. THRUST BLOCK
7808+32.23 @ 149.11' RT
EL. 567.05'

8. THRUST BLOCK
7808+19.98 @ 140.35' RT
EL. 567.11'

9. THRUST BLOCK
7807+98.82 @ 63.73' RT
EL. 585.34'

10. THRUST BLOCK
7807+59.21 @ 21.98' RT
EL. 584.20'

11. THRUST BLOCK
7807+53.21 @ 19.31' RT
EL. 584.61'

12. THRUST BLOCK
7806+84.33 @ 29.42' RT
EL. 582.33'

13. THRUST BLOCK
7806+78.08 @ 31.21' RT
EL. 583.40'

THRUST BLOCK AS-BUILT AT 24"Ø WATER MAIN:

14. THRUST BLOCK
7806+62.65 @ 0.55' LT
EL. 584.90'

15. THRUST BLOCK
7806+20.62 @ 13.91' RT
EL. 586.25'

16. THRUST BLOCK
7805+95.13 @ 20.12' LT
EL. 586.14'

SHOWN DIMENSIONS MEASURED:

a. WEST FROM RETENTION WALL

b. SOUTH FROM SOUTHEAST END OF WEST ABUTMENT

c. EAST FROM BACK OF CURB

d. SOUTH OF JOINT BETWEEN ROADWAY PAVEMENT AND BRIDGE APPROACH

e. WEST OF SOUTHEAST CORNER OF BACK OF CURB

f. NORTH OF BACK OF CURB

g. SOUTH OF CENTER OF MANHOLE

h. NORTH OF CENTER OF MANHOLE

k. EAST OF CENTER OF MANHOLE

m. WEST OF CENTER OF MANHOLE

PLAN
SURVEYED
ALIGNMENT CHECKED
ALL FILE NAMES RECORD
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
ALIGNMENT CHECKED
GRADES CHECKED
ALL FILE NAMES RECORD
STRUCTURE NO'S/NG CKD
NOTE BOOK
NO.
BY
DATE

FILE PATH = \\civilmanagr.com\ildata-il\Roseden\DOCS\PR-0059913 - Wolsh Circle Interchange\Calculations\Water Main As-Built\sht-AsBuilt-1.dgn

sht-AsBuilt-1.dgn	DESIGNED -		REVISED -
USER NAME = dmckane	DRAWN -	DMM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	JMS	REVISED -
PLOT DATE = 8/11/2015	DATE -	5/1/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN
AS-BUILT PLAN AND 48" W.M. PROFILE

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-007R	COOK	1	2
		CONTRACT NO. 60W26		
	ILLINOIS FED. AID PROJECT			

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-sht-WM-NWAsBuilt-01.dgn	DESIGNED -	REVISED -
USER NAME = dshevaz	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

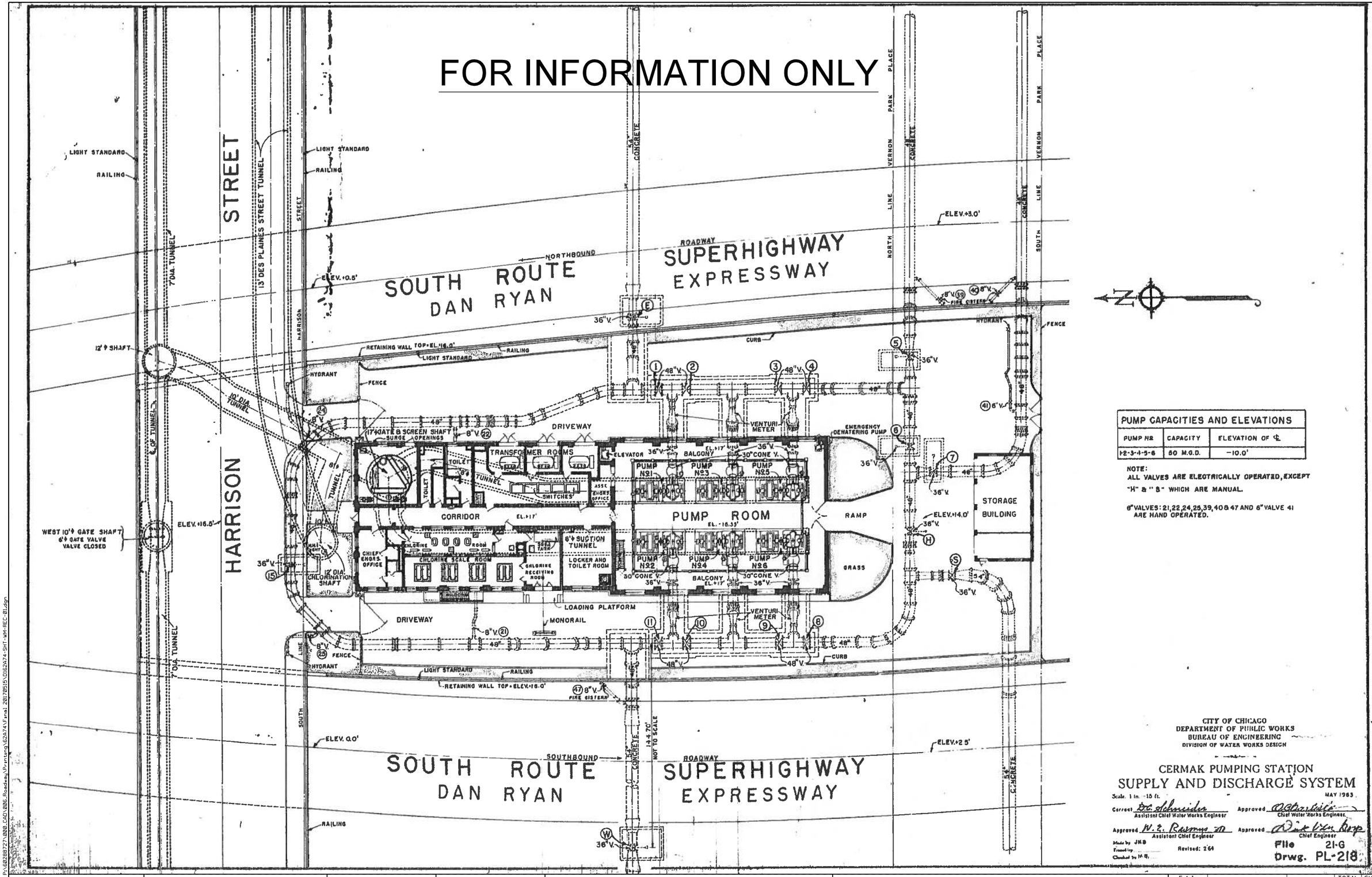
WATER MAIN AS-BUILT

SCALE: | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	124
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

FILE PATH = P:\60288727\000_CAD\006_Roadway\Printing\62A74\Final 20170515\D162A74-sht-WM-NWAsBuilt-01.dgn

FOR INFORMATION ONLY



PUMP CAPACITIES AND ELEVATIONS		
PUMP NO	CAPACITY	ELEVATION OF ℄
1-2-3-4-5-6	80 M.G.D.	-10.0'

NOTE:
ALL VALVES ARE ELECTRICALLY OPERATED, EXCEPT "H" & "S" WHICH ARE MANUAL.

6" VALVES: 21, 22, 24, 25, 39, 40 & 47 AND 8" VALVE 41 ARE HAND OPERATED.

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
DIVISION OF WATER WORKS DESIGN

CERMAK PUMPING STATION
SUPPLY AND DISCHARGE SYSTEM

Scale: 1 in. = 15 ft. MAY 1963

Correct: Ed. Schneider, Assistant Chief Water Works Engineer
Approved: A. Charlwitz, Chief Water Works Engineer
Approved: W. T. Ramsey Jr., Assistant Chief Engineer
Approved: Dirk Van Kooy, Chief Engineer

Made by: J.K.B.
Traced by:
Checked by: M.B.
Revised: 2'64

File 21-G
Drwg. PL-218

FILE PATH = P:\60288727\000_CAD\006-Roadway\Printing\62A74\Final 20170515\D162A74-SHT-WM-REC-01.dgn

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

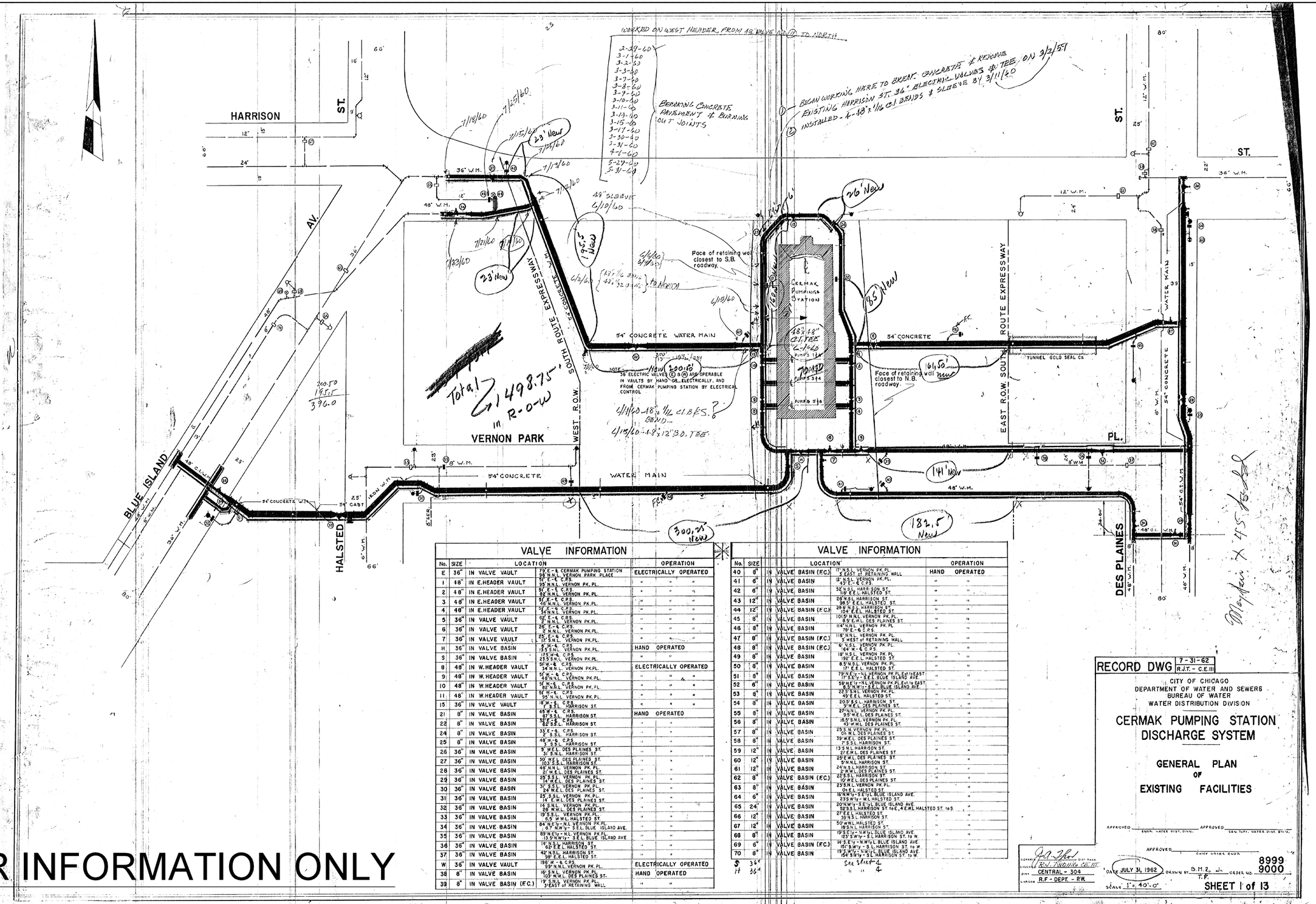
D162A74-SHT-WM-REC-01.dgn	DESIGNED -	REVISED -
USER NAME = dshevez	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RECORD INFORMATION

SCALE: | SHEET 1 OF 18 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	125
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			



VALVE INFORMATION

No.	SIZE	LOCATION	OPERATION
E	36"	IN VALVE VAULT 79' E-S CERMAK PUMPING STATION 3' S.N.L. VERNON PARK PLACE	ELECTRICALLY OPERATED
1	48"	IN E.HEADER VAULT 21' E-S C.P.S. 35' N.N.L. VERNON PK. PL.	" " "
2	48"	IN E.HEADER VAULT 51' E-S C.P.S. 82' N.N.L. VERNON PK. PL.	" " "
3	48"	IN E.HEADER VAULT 51' E-S C.P.S. 46' N.N.L. VERNON PK. PL.	" " "
4	48"	IN E.HEADER VAULT 51' E-S C.P.S. 14' N.N.L. VERNON PK. PL.	" " "
5	36"	IN VALVE VAULT 69' E-S C.P.S. 2' N.N.L. VERNON PK. PL.	" " "
6	36"	IN VALVE VAULT 26' E-S C.P.S. 3' N.N.L. VERNON PK. PL.	" " "
7	36"	IN VALVE VAULT 25' E-S C.P.S. 17' S.N.L. VERNON PK. PL.	" " "
H	36"	IN VALVE BASIN 6' W-S C.P.S. 13.5 S.N.L. VERNON PK. PL.	HAND OPERATED
S	36"	IN VALVE BASIN 175' W-S C.P.S. 23.5 S.N.L. VERNON PK. PL.	" "
8	48"	IN W.HEADER VAULT 56' W-S C.P.S. 14' N.N.L. VERNON PK. PL.	ELECTRICALLY OPERATED
9	48"	IN W.HEADER VAULT 51' W-S C.P.S. 46' N.N.L. VERNON PK. PL.	" " "
10	48"	IN W.HEADER VAULT 51' W-S C.P.S. 82' N.N.L. VERNON PK. PL.	" " "
11	48"	IN W.HEADER VAULT 56' W-S C.P.S. 95' N.N.L. VERNON PK. PL.	" " "
15	36"	IN VALVE VAULT 18' W-S C.P.S. 3' S.S.L. HARRISON ST.	" " "
21	8"	IN VALVE BASIN 45' W-S C.P.S. 97' S.S.L. HARRISON ST.	HAND OPERATED
22	8"	IN VALVE BASIN 36' E-S C.P.S. 82' S.S.L. HARRISON ST.	" "
24	8"	IN VALVE BASIN 33' E-S C.P.S. 2' S.S.L. HARRISON ST.	" "
25	8"	IN VALVE BASIN 48' W-S C.P.S. 3' S.S.L. HARRISON ST.	" "
26	36"	IN VALVE BASIN 9' W.E.L. DES PLAINES ST. 31' S.N.L. HARRISON ST.	" "
27	36"	IN VALVE BASIN 30' W.E.L. DES PLAINES ST. 102' S.S.L. HARRISON ST.	" "
28	36"	IN VALVE BASIN 48' N.N.L. VERNON PK. PL. 2' W.E.L. DES PLAINES ST.	" "
29	36"	IN VALVE BASIN 69' S.S.L. VERNON PK. PL. 14' W.E.L. DES PLAINES ST.	" "
30	36"	IN VALVE BASIN 31' S.S.L. VERNON PK. PL. 24' W.E.L. DES PLAINES ST.	" "
31	36"	IN VALVE BASIN 28' S.S.L. VERNON PK. PL. 14' E.W.L. DES PLAINES ST.	" "
32	36"	IN VALVE BASIN 14' S.N.L. VERNON PK. PL. 28' W.W.L. DES PLAINES ST.	" "
33	36"	IN VALVE BASIN 19' S.S.L. VERNON PK. PL. 6.5' W.W.L. HALSTED ST.	" "
34	36"	IN VALVE BASIN 84' N.E.Ly-N.L VERNON PK.PL. 67' N.W.Ly- S.E.L. BLUE ISLAND AVE.	" "
35	36"	IN VALVE BASIN 89' N.E.Ly - N.L. VERNON PK.PL. 13.5'N.W.Ly - S.E.L. BLUE ISLAND AVE.	" "
36	36"	IN VALVE BASIN 14' N.S.L. HARRISON ST. 63' E.E.L. HALSTED ST.	" "
37	36"	IN VALVE BASIN 42' N.S.L. HARRISON ST. 38' E.E.L. HALSTED ST.	" "
W	36"	IN VALVE VAULT 196' W - S C.P.S. 59' N.N.L. VERNON PK. PL.	ELECTRICALLY OPERATED
38	8"	IN VALVE BASIN 18' S.N.L. VERNON PK. PL. 103' W.W.L. DES PLAINES ST.	HAND OPERATED
39	8"	IN VALVE BASIN (F.C.) 19' S.N.L. VERNON PK. PL. 3' EAST of RETAINING WALL	" "

VALVE INFORMATION

No.	SIZE	LOCATION	OPERATION
40	8"	IN VALVE BASIN (F.C.) 17' N.S.L. VERNON PK.PL. 3' EAST of RETAINING WALL	HAND OPERATED
41	8"	IN VALVE BASIN 12' N.S.L. VERNON PK.PL. 43' E-C C.P.S.	" "
42	8"	IN VALVE BASIN 52' N.S.L. HARRISON ST. 118' E.E.L. HALSTED ST.	" "
43	12"	IN VALVE BASIN 28' W.S.L. HARRISON ST. 98.5' E.E.L. HALSTED ST.	" "
44	12"	IN VALVE BASIN (F.C.) 29.5' N.S.L. HARRISON ST. 104' E.E.L. HALSTED ST.	" "
45	8"	IN VALVE BASIN 101.5' N.N.L. VERNON PK.PL. 8.5' E.W.L. DES PLAINES ST.	" "
46	8"	IN VALVE BASIN 114' N.N.L. VERNON PK. PL. 78' E-C C.P.S.	" "
47	8"	IN VALVE BASIN (F.C.) 116' N.N.L. VERNON PK. PL. 3' WEST of RETAINING WALL	" "
48	8"	IN VALVE BASIN (F.C.) 6' N.S.L. VERNON PK. PL. 164' W-E C.P.S.	" "
49	8"	IN VALVE BASIN 18' N.S.L. VERNON PK. PL. 192' E.E.L. HALSTED ST.	" "
50	8"	IN VALVE BASIN 8.5' N.S.L. VERNON PK. PL. 17' E.E.L. HALSTED ST.	" "
51	8"	IN VALVE BASIN 79' N.E.Ly - N.L VERNON PK.PL. 84' EAST of E.E.L. BLUE ISLAND AVE.	" "
52	6"	IN VALVE BASIN 58' N.E.Ly - N.L. VERNON PK. PL. 84' E. 33.5' N.W.Ly - S.E.L. BLUE ISLAND AVE.	" "
53	8"	IN VALVE BASIN 22.5' S.W.L. VERNON PK.PL. 49' E.E.L. HALSTED ST.	" "
54	8"	IN VALVE BASIN 20.5' S.S.L. HARRISON ST. 9' W.E.L. DES PLAINES ST.	" "
55	8"	IN VALVE BASIN 27' N.W.L. VERNON PK. PL. 9.5' W.E.L. DES PLAINES ST.	" "
56	8"	IN VALVE BASIN 18.5' S.W.L. VERNON PK. PL. 43' W.W.L. DES PLAINES ST.	" "
57	8"	IN VALVE BASIN 25.5' N. VERNON PK. PL. ON W.L. DES PLAINES ST.	" "
58	8"	IN VALVE BASIN 39' W.E.L. DES PLAINES ST. 7' S.S.L. HARRISON ST.	" "
59	12"	IN VALVE BASIN 13.5' N.L. HARRISON ST. 21' E.W.L. DES PLAINES ST.	" "
60	12"	IN VALVE BASIN 25' E.W.L. DES PLAINES ST. 9' N.W.L. HARRISON ST.	" "
61	12"	IN VALVE BASIN 24' N.S.L. HARRISON ST. 2' W.W.L. DES PLAINES ST.	" "
62	8"	IN VALVE BASIN (F.C.) 28.5' S.L. HARRISON ST. 10' W.E.L. DES PLAINES ST.	" "
63	8"	IN VALVE BASIN 23' S.W.L. VERNON PK. PL. ON E.L. HALSTED ST.	" "
64	6"	IN VALVE BASIN 160' N.W.Ly - S.E.L. BLUE ISLAND AVE. 235' W.Ly - W.L. HALSTED ST.	" "
65	24"	IN VALVE BASIN 209' N.W.Ly - S.E.L. BLUE ISLAND AVE. 82' S.S.L. HARRISON ST. to E., 4' E.W.L. HALSTED ST. to S.	" "
66	12"	IN VALVE BASIN 27' E.L. HALSTED ST. 39' N.S.L. HARRISON ST.	" "
67	12"	IN VALVE BASIN 50' W.W.L. HALSTED ST. 18.5' S.L. HARRISON ST.	" "
68	8"	IN VALVE BASIN 19.5' E.Ly - N.W.Ly BLUE ISLAND AVE. 23.5' S.W.Ly - S.L. HARRISON ST. to W.	" "
69	6"	IN VALVE BASIN (F.C.) 141.5' E.Ly - N.W.Ly. BLUE ISLAND AVE. 151' S.W.Ly - S.L. HARRISON ST. to W.	" "
70	8"	IN VALVE BASIN 19.2' W.E.L. - N.W.Ly. BLUE ISLAND AVE. 154.5' W.Ly - S.L. HARRISON ST. to W.	" "
$	36"		
℄	36"		

See Sheet 4

FOR INFORMATION ONLY

RECORD DWG 7-31-62 R.J.T. - C.E.III

CITY OF CHICAGO
DEPARTMENT OF WATER AND SEWERS
BUREAU OF WATER
WATER DISTRIBUTION DIVISION

CERMAK PUMPING STATION DISCHARGE SYSTEM

GENERAL PLAN OF EXISTING FACILITIES

APPROVED _____ ENGR. WATER DIST. DIV.(L)
APPROVED _____ GEN. SUPT. WATER DIST. DIV.(L)
APPROVED _____ CHIEF WATER ENGR.

CHECKED J.J. Shea
DIST CENTRAL - 304
LAYOUT R.F - DEPT. - R.W.

DATE JULY 31, 1962 DRAWN BY S.M.Z. Jr. T.F. ORDER NO. 8999 9000

SCALE 1" = 40'-0"

SHEET 1 of 13

FILE PATH = P:\60288727\000_CAD\0006-RoadwayPrinting\62A74\Final 20170515\D162A74-SHT-WM-REC-02.dgn

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-SHT-WM-REC-02.dgn	DESIGNED -		REVISED -
USER NAME = dshevaz	DRAWN -		REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -		REVISED -
PLOT DATE = 5/12/2017	DATE -	05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RECORD INFORMATION

SCALE: | SHEET 2 OF 18 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	126
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		

N.W'ly Line BLUE ISLAND AVE.

S.E'ly Line BLUE ISLAND AVE.

N.L. VERNON PARK PL.

S.L. VERNON PARK PL.

13' S.S.L. VERNON PK. PL. (to the East)

N.L. VERNON PARK PL. (EXTENDED EAST)

W.L. HALSTED ST.

E.L. HALSTED ST.

54" CONC. STRAIGHT L.L.=16.03'

54" CONC. FULL BEVEL LONG SIDE ON SOUTH L.L.=15.84'

54" CONC. STRAIGHT L.L.=16.03'

54" CONC. STRAIGHT with 1 outlet 4' from Bell L.L.=16.03'

54" CONC. SHORT L.L.=14.82'

54" CONC. SHORT L.L.=6.00'

54" C.I.N.B.R. L.L.=9.08'

36" C.I. SLIPP. L.L.=5.55'

54" C.I.N.B. L.L.=10.96'

54" C.I.N.B. Pipe L.L.=4.00'

54" C.I. Cap

54" C.I. 2-Bell Bend 13.5 S.L. (Est. West) 23.17 E.W.L. HALSTED ST.

54" C.I. 2-Bell Bend 13.5 S.L. (Est. West) 8.50' N.S.L.

54" C.I. 2-Bell Bend 11.00' S.L. Vernon Pk. Pl. 22.5 E.L. Halsted St.

54" C.I. 2-Bell Bend 3' N.S.L. Vernon Pk. Pl. 22.5 E.L. Halsted St.

54" C.I. 2-Bell Bend 8.50' N.S.L. 20' E.L.

54" C.I. 2-Bell Bend 33 E.L. 6.25' N.S.L. (Valve Axis 22°-30')

54" C.I. 2-Bell Bend 33 E.L. 8.25' N.S.L. (Relaid to Avoid Sta. 10+20)

54" C.I. 2-Bell Bend 33 E.L. 4.50' N.S.L.

54" C.I. 2-Bell Bend 11.00' S.L. Vernon Pk. Pl.

54" C.I. 2-Bell Bend 3' N.S.L. Vernon Pk. Pl.

54" C.I. 2-Bell Bend 22.50' N.L. 22.5' E.L. Halsted St.

54" C.I. 2-Bell Bend 11.00' N.L. Vernon Pk. Pl.

54" C.I. 2-Bell Bend 13' N.L. 22.5' E.L. Halsted St.

54" C.I. 2-Bell Bend 13' N.L. 23.17' E.L. Halsted St.

54" C.I. 2-Bell Bend 10.50' N.L. 23.17' E.L. Halsted St.

54" C.I. 2-Bell Bend 10.50' N.L. 8.50' E.L.

54" C.I. 2-Bell Bend 10.50' N.L. 20' E.L.

54" C.I. 2-Bell Bend 10.50' N.L. 33' E.L.

54" C.I. 2-Bell Bend 10.50' N.L. 33' E.L. (Relaid to Avoid Sta. 10+20)

54" C.I. 2-Bell Bend 10.50' N.L. 33' E.L.

FOR INFORMATION ONLY

North Line of VERNON PARK PLACE

South Line of VERNON PARK PLACE

W. HALSTED ST.

E. HALSTED ST.

WEST R.O.W.

ALLEY

PLAN

PROFILE

RECORD DWG. 7-31-62 R.J.T. - G.E.III

CITY OF CHICAGO
DEPARTMENT OF WATER AND SEWERS
BUREAU OF WATER
WATER DISTRIBUTION DIVISION

CERMAK PUMPING STATION DISCHARGE SYSTEM

54" CONCRETE DISCHARGE MAIN

AT 12' NORTH-SOUTH LINE VERNON PARK PL. FROM WEST LINE HALSTED ST. TO WEST R/W SOUTH ROUTE EXPRESSWAY

APPROVED _____ Engr. Water Dist. Div.

APPROVED _____ Chief Water Engr.

APPROVED _____ Dist. Water Dist. Div.

Correct: _____ Dist. Engr.
Checked: _____
Dist. CENTRAL - 304
Charge R.F. - DEPT. - P.W.

DATE JULY 31, 1962 DRAWN BY T.F. ORDER No. 8999 9000

SCALE 1" = 10'

SHEET 3 of 13

AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	D162A74-SHT-WM-REC-04.dgn	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WATER MAIN RECORD INFORMATION	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	USER NAME = dshevaz	DRAWN -	REVISED -			90/94/290	2015-022-I	COOK	275	128
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		SCALE: SHEET 4 OF 18 SHEETS STA. TO STA.			CONTRACT NO. 62A74		
	PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -					ILLINOIS FED. AID PROJECT		

FILE PATH = P:\60288727\000_CAD\006_Roadway\Printing\62A74\Final 20170515\D162A74-SHT-WM-REC-04.dgn

FOR INFORMATION ONLY

WEST R.O.W.

North Line of VERNON PARK PLACE

South Line of VERNON PARK PLACE (EXTENDED ACROSS EXPRESSWAY)

WEST R.O.W. SOUTH ROUTE EXPRESSWAY 253'± WEST of CERMAK P.S.

300.00' New

WEST R.O.W.

CERMAK P.S.

CHICAGO CITY DATUM

RECORD DWG 7-31-62 R.J.T.-C.E.III

CITY OF CHICAGO
DEPARTMENT OF WATER AND SEWERS
BUREAU OF WATER
WATER DISTRIBUTION DIVISION

CERMAK PUMPING STATION DISCHARGE SYSTEM

54" CONCRETE DISCHARGE MAIN

IN VERNON PARK PLACE AT 14' N.S.L. FROM 23.20' WEST- ℄ CERMAK PUMPING STATION TO WEST R.O.W. SOUTH ROUTE EXPRESSWAY

APPROVED Engr. Water Dist. Divn.

APPROVED Gen. Supt. Water Dist. Divn.

APPROVED Chief Water Engr.

Correct J.R. Schal Dist. Engr.
Checked J.J. Trowbridge C.E.III
Dist CENTRAL - 304
Charge R.F. - DEPT. - P.W.

DATE JULY 31, 1962 DRAWN BY T. F. ORDER No. 8999 9000

SCALE 1" = 10'

SHEET 4 of 13

FILE PATH = P:\6228727\000.CAD\006.Roadway\Printing\162A74\Final 20170515\D162A74-SHT-WM-REC-05.dgn

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-SHT-WM-REC-05.dgn	DESIGNED -	REVISED -
USER NAME = dshevaz	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RECORD INFORMATION

SCALE: | SHEET 5 OF 18 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	129
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		

VALVE INFORMATION			
	LOCATION		OPERATION
1	48" In E Header Vault	48" N.L. Vernon Pk. Pl. & Station	Electrically operated
2	48" In E Header Vault	48" N.L. Vernon Pk. Pl. & Station	"
3	48" In E Header Vault	48" N.L. Vernon Pk. Pl. & Station	"
4	48" In E Header Vault	48" N.L. Vernon Pk. Pl. & Station	"
5	36" In Valve Vault	48" N.L. Vernon Pk. Pl. & Station	"
6	36" In Valve Vault	48" N.L. Vernon Pk. Pl. & Station	"
7	36" In Valve Vault	48" N.L. Vernon Pk. Pl. & Station	"
H	36" In Valve Basin	48" N.L. Vernon Pk. Pl. & Station	Hand operated
3	36" In Valve Basin	48" N.L. Vernon Pk. Pl. & Station	Electrically operated
8	48" In E Header Vault	48" N.L. Vernon Pk. Pl. & Station	"
9	48" In E Header Vault	48" N.L. Vernon Pk. Pl. & Station	"
10	48" In W Header Vault	48" N.L. Vernon Pk. Pl. & Station	"
11	48" In W Header Vault	48" N.L. Vernon Pk. Pl. & Station	"
15	36" In Valve Vault	48" N.L. Harrison St. & Station	"
21	8" In Valve Basin	48" N.L. Harrison St. & Station	Hand operated
22	8" In Valve Basin	48" N.L. Harrison St. & Station	"
24	8" In Valve Basin	48" N.L. Harrison St. & Station	"
25	8" In Valve Basin	48" N.L. Harrison St. & Station	"
E	36" In Valve Vault	48" N.L. Vernon Pk. Pl. & Station	Electrically operated
N	36" In Valve Vault	48" N.L. Vernon Pk. Pl. & Station	"
39	8" In Valve Basin	48" N.L. Vernon Pk. Pl. & 3' West of Retaining Wall	Hand operated
40	8" In Valve Basin	48" N.L. Vernon Pk. Pl. & 3' West of Retaining Wall	"
41	6" In Valve Basin	48" N.L. Vernon Pk. Pl. & 3' West of Retaining Wall	"
42	6" In Valve Basin	48" N.L. Vernon Pk. Pl. & 3' West of Retaining Wall	"

NOTE - 36" VALVES Ⓔ & Ⓦ ARE OPERABLE BY HAND OR ELECTRICALLY FROM CERMAK PUMPING STATION

SECTION E-E

SECTION F-F

SECTION D-D

SECTION G-G

SECTION A-A

PUMP ROOM

& CERMAK PUMPING STATION

LIMITS OF NEW CONSTRUCTION

FOR INFORMATION ONLY

RECORD DWG. 7-31-62 R.J.T.-C.E.III

CITY OF CHICAGO
DEPARTMENT OF WATER AND SEWERS
BUREAU OF WATER
WATER DISTRIBUTION DIVISION

CERMAK PUMPING STATION DISCHARGE SYSTEM

48" C.I. HEADER AND TAKEOFF MAINS

APPROVED _____ ENGR. WATER DIST. DIVN.

APPROVED _____ GEN. SUPT. WATER DIST. DIST.

APPROVED _____ CHIEF WATER ENGR.

ORIGINAL ORDER No. 68029
REVISION ORDER Nos. 6999 & 9000

CORRECT _____ ASST. ENGR.
DIRECTED R.J. TWOHIG JR. III
DIST. CENTRAL - 304
CHARGE Rev. Fund.
Bureau of Engineering

DATE MARCH 15, 1961 DRAWN BY T.F. ORDER NO.

SCALE 1" = 10' SHEET 5 of 13

AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	D162A74-SHT-WM-REC-06.dgn	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WATER MAIN RECORD INFORMATION	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	USER NAME = dshevaz	DRAWN -	REVISED -			90/94/290	2015-022-I	COOK	275	130
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -						CONTRACT NO. 62A74	
	PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -		SCALE: SHEET 6 OF 18 SHEETS STA. TO STA.				ILLINOIS FED. AID PROJECT	

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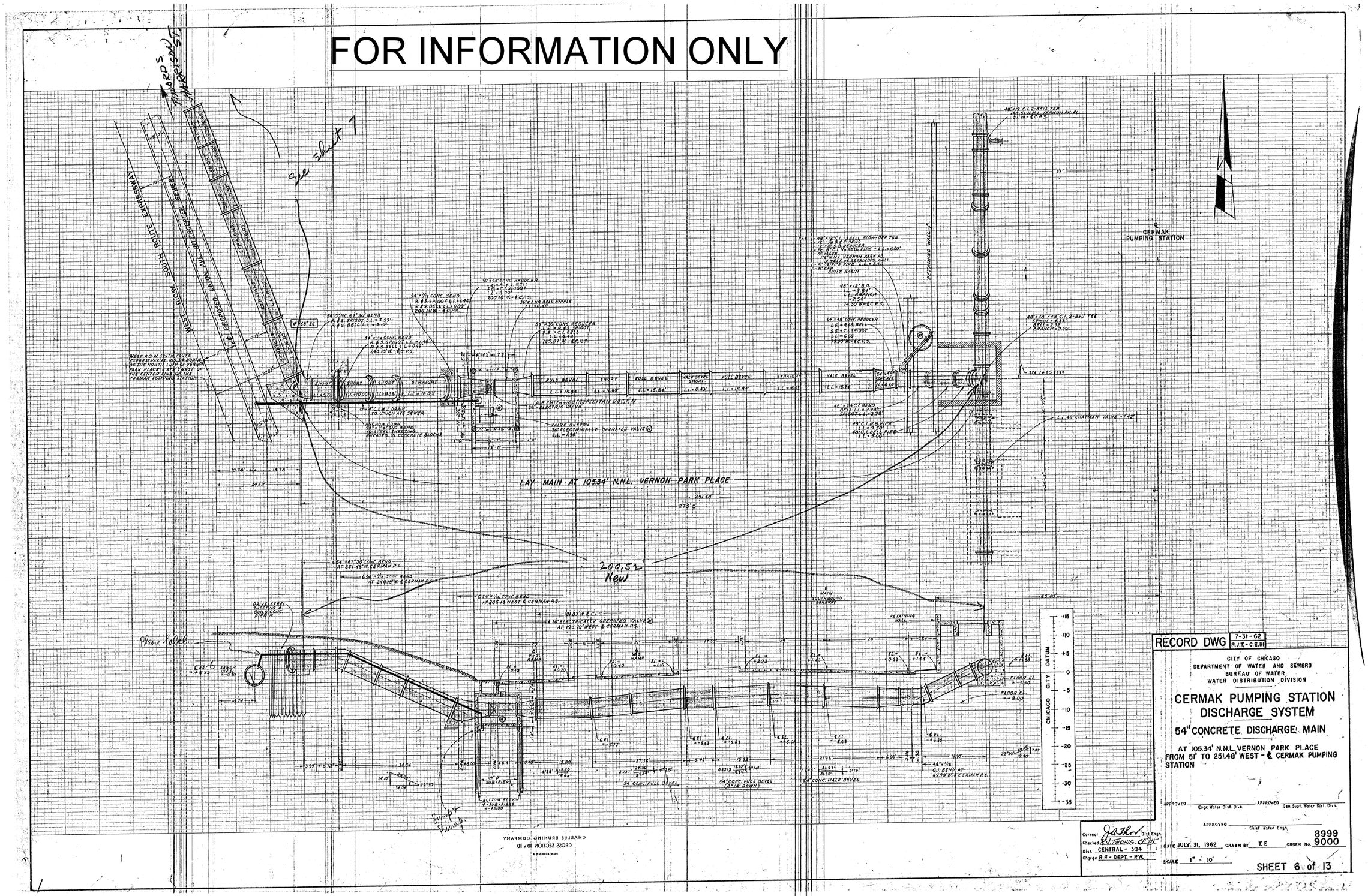
FOR INFORMATION ONLY



AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-SHT-WM-REC-07.dgn	DESIGNED -	REVISED -
USER NAME = dshevaz	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RECORD INFORMATION

SCALE: | SHEET 7 OF 18 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	131
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		

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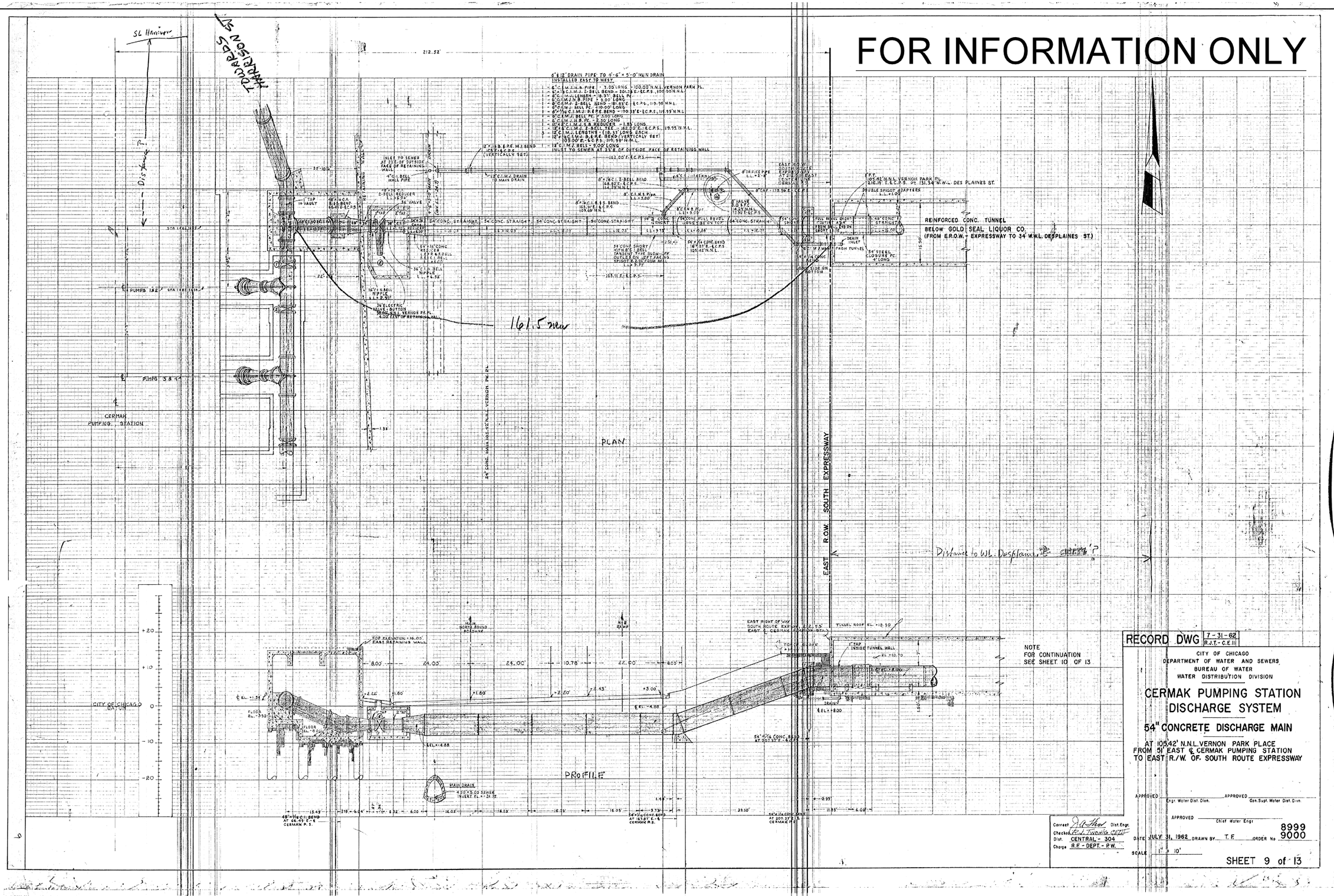
FOR INFORMATION ONLY



RECORD DWG 7-31-62 R.J.T. - C.E.III

CITY OF CHICAGO
DEPARTMENT OF WATER AND SEWERS
BUREAU OF WATER
WATER DISTRIBUTION DIVISION

CERMAK PUMPING STATION DISCHARGE SYSTEM

54" CONCRETE DISCHARGE MAIN

AT 105.42' N.N.L. VERNON PARK PLACE
FROM 51' EAST ℄ CERMAK PUMPING STATION
TO EAST R/W OF SOUTH ROUTE EXPRESSWAY

APPROVED _____ Engr. Water Dist. Divn.
APPROVED _____ Gen. Supt. Water Dist. Divn.
APPROVED _____ Chief Water Engr.

Correct _____ Dist. Engr.
Checked R.J. Twomey CE
Dist. CENTRAL - 304
Charge R.F. - DEPT. - P.W.

DATE JULY 31, 1962 DRAWN BY T.F. ORDER No 8999 9000
SCALE 1" = 10'

SHEET 9 of 13

FILE PATH = P:\6282872\000.CAD\006.Roadway\Planning\62A74\Final 20170515\D162A74-SHT-WM-REC-08.dgn

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-SHT-WM-REC-08.dgn	DESIGNED -	REVISED -
USER NAME = dshevaz	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -

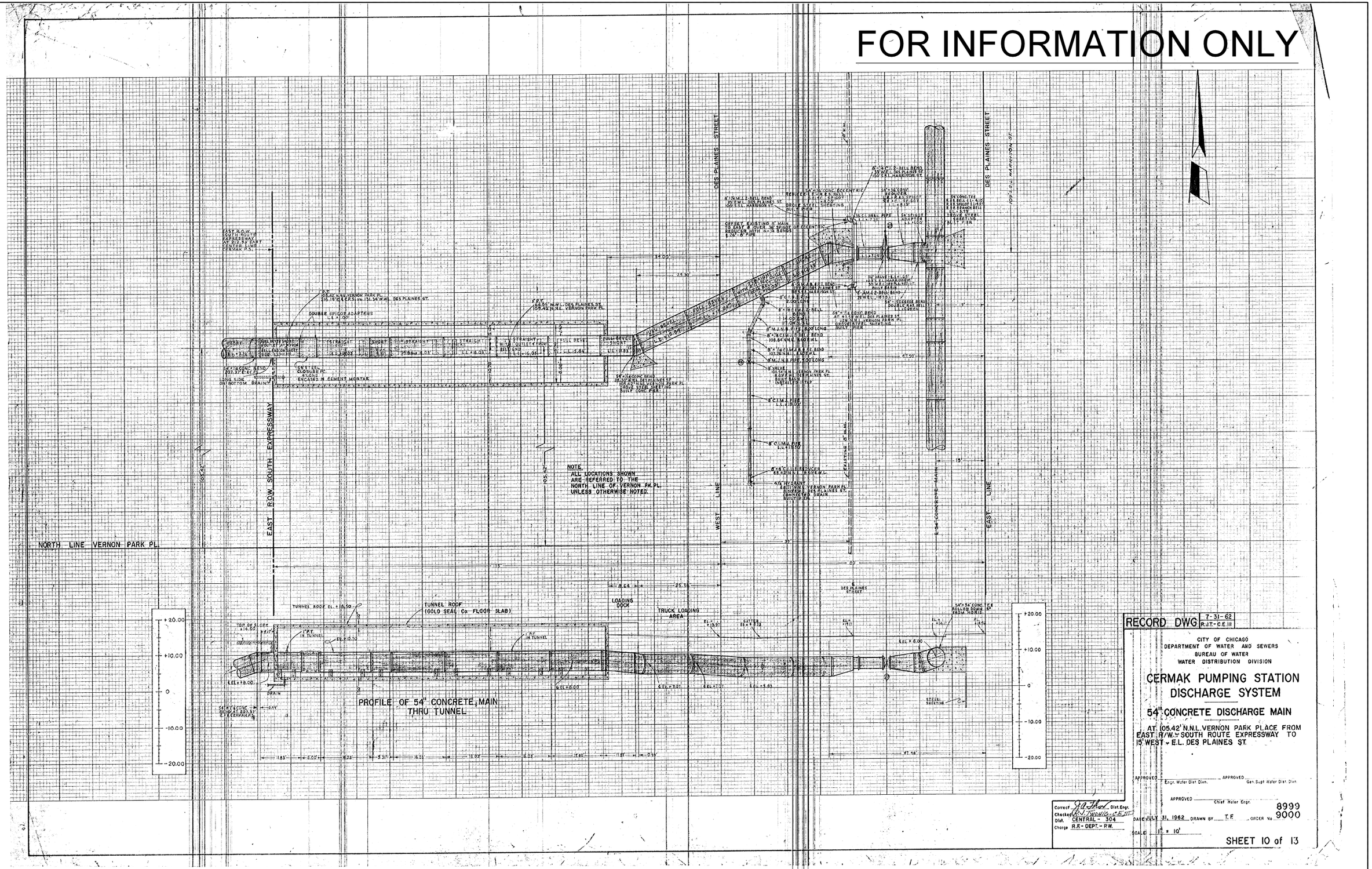
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RECORD INFORMATION

SCALE: | SHEET 8 OF 18 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	132
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY



RECORD DWG 7-31-62 R.J.T.-C.E.III

CITY OF CHICAGO
DEPARTMENT OF WATER AND SEWERS
BUREAU OF WATER
WATER DISTRIBUTION DIVISION

CERMAK PUMPING STATION DISCHARGE SYSTEM

54" CONCRETE DISCHARGE MAIN

AT 105.42' N.N.L. VERNON PARK PLACE FROM EAST R/W. SOUTH ROUTE EXPRESSWAY TO 15 WEST - E.L. DES PLAINES ST.

APPROVED _____ Engr. Water Dist Divn.
APPROVED _____ Gen. Supt Water Dist Divn
APPROVED _____ Chief Water Engr.

Correct R.A. Thiel Dist. Engr.
Checked R.J. Twohig-C.E.III
Dist. CENTRAL - 304
Charge R.R. - DEPT. - R.W.

DATE JULY 31, 1962 DRAWN BY T.F. ORDER No. 8999 9000
SCALE 1" = 10'

SHEET 10 of 13

AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	D162A74-SHT-WM-REC-09.dgn	DESIGNED -	REVISED -
	USER NAME = dshevaz	DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RECORD INFORMATION

SCALE: | SHEET 9 OF 18 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	133
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		

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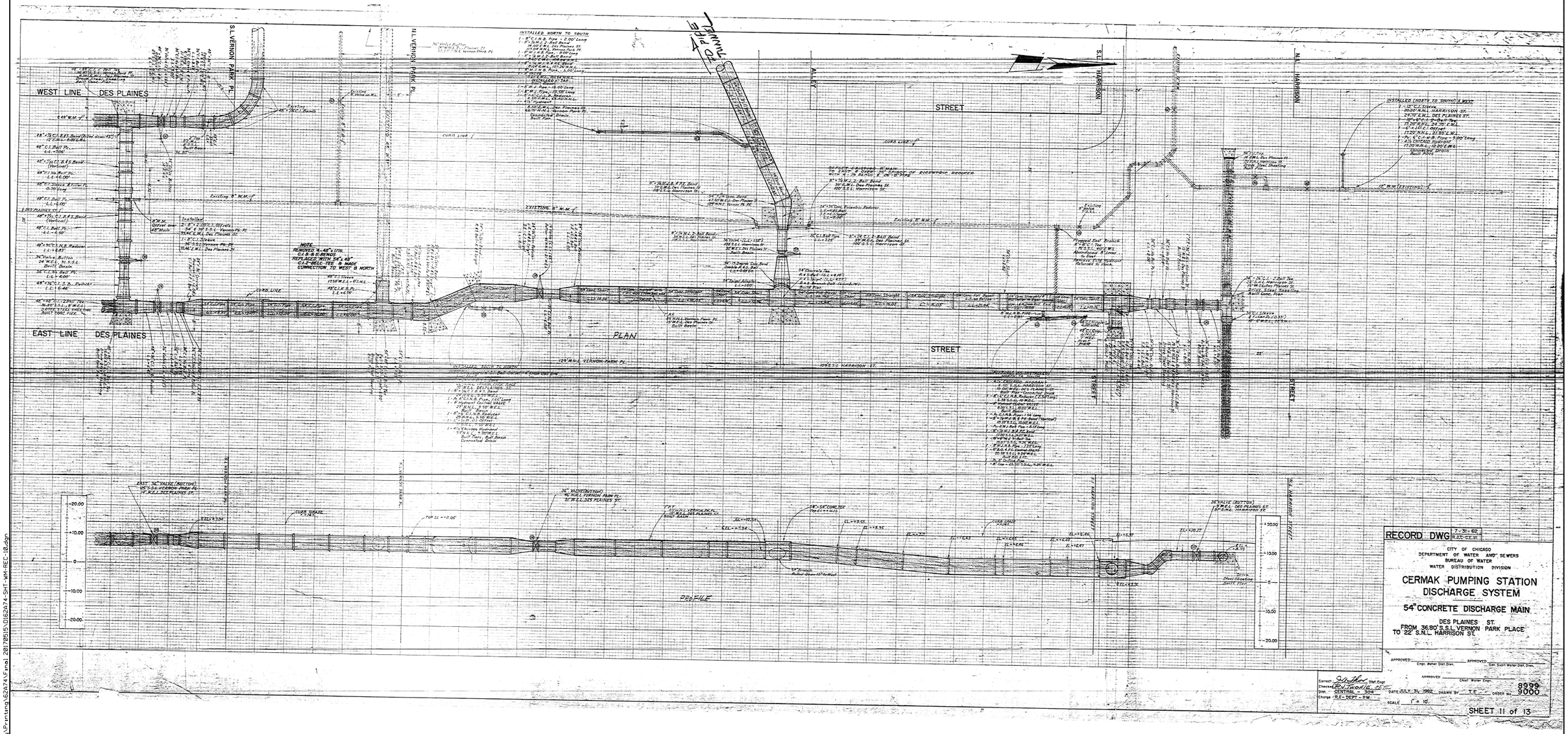
FOR INFORMATION ONLY



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AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	D162A74-SHT-WM-REC-10.dgn	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WATER MAIN RECORD INFORMATION
	USER NAME = dshevaz	DRAWN -	REVISED -		SCALE: SHEET 10 OF 18 SHEETS STA. TO STA.
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	134
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY

PLAN

NORTH 48" CONCRETE MAIN

PROFILE

NORTH 48" CONCRETE MAIN

GOLD SEAL LIQUOR CO.
NEW WAREHOUSE BLDG.

North Line of VERNON PARK PL.

South Line of VERNON PARK PL.

W.L. DESPLAINES ST.

EAST R.O.W. SOUTH RTE. EXPRESSWAY 212.53' EAST - ℄ CERMAK R.S.

℄ SOUTH 48" MAIN

℄ SOUTH 48" CONC. MAIN (ACROSS NO. BOUND ROADWAY SOUTH ROUTE EXPRESSWAY)

℄ NORTH BOUND ROADWAY

CERMAK PUMPING STATION

CHICAGO CITY DATUM

NEW CONSTRUCTION

EXISTING 48" C.I. MAIN

EXISTING 48" C.I. MAIN

EXISTING 8" C.I. MAIN

CROSS CONNECTION TO 8" MAIN IN VERNON PARK PL.

NOTE - 8" MAIN TO WEST ABANDONED UNDER ORDER No. 15084

FOR SOUTH 48" MAIN SEE SHEET OF

RECORD DWG. 7-10-62 R.J.T.-CE III

BILL OF MATERIAL

correct - J.T. Thor dist. engr.
checked W.J. Lyons, Jr. III
dist. CENTRAL - 304
charge R.F.-DEPT.-R.W.

CITY OF CHICAGO
DEPARTMENT OF WATER AND SEWERS
BUREAU OF WATER
WATER DISTRIBUTION DIVISION

CERMAK PUMPING STATION DISCHARGE SYSTEM

NORTH 48" CONCRETE DISCHARGE MAIN

AT 7 S.N.L. VERNON PARK PLACE
FROM ℄ CERMAK PUMPING STATION - TO WEST L. DES PLAINES ST.

APPROVED _____ Engr. water dist. div.
APPROVED _____ Gen. supt. water dist. div.
APPROVED _____ Chief water engr.

DATE JULY 10, 1962 DRAWN BY T.F. ORDER NO. 8999 9000

SCALE 1" = 10'

SHEET 12 of 13

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-SHT-WM-REC-11.dgn	DESIGNED -	REVISED -
USER NAME = dshevaz	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RECORD INFORMATION

SCALE: | SHEET 11 OF 18 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	135
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		

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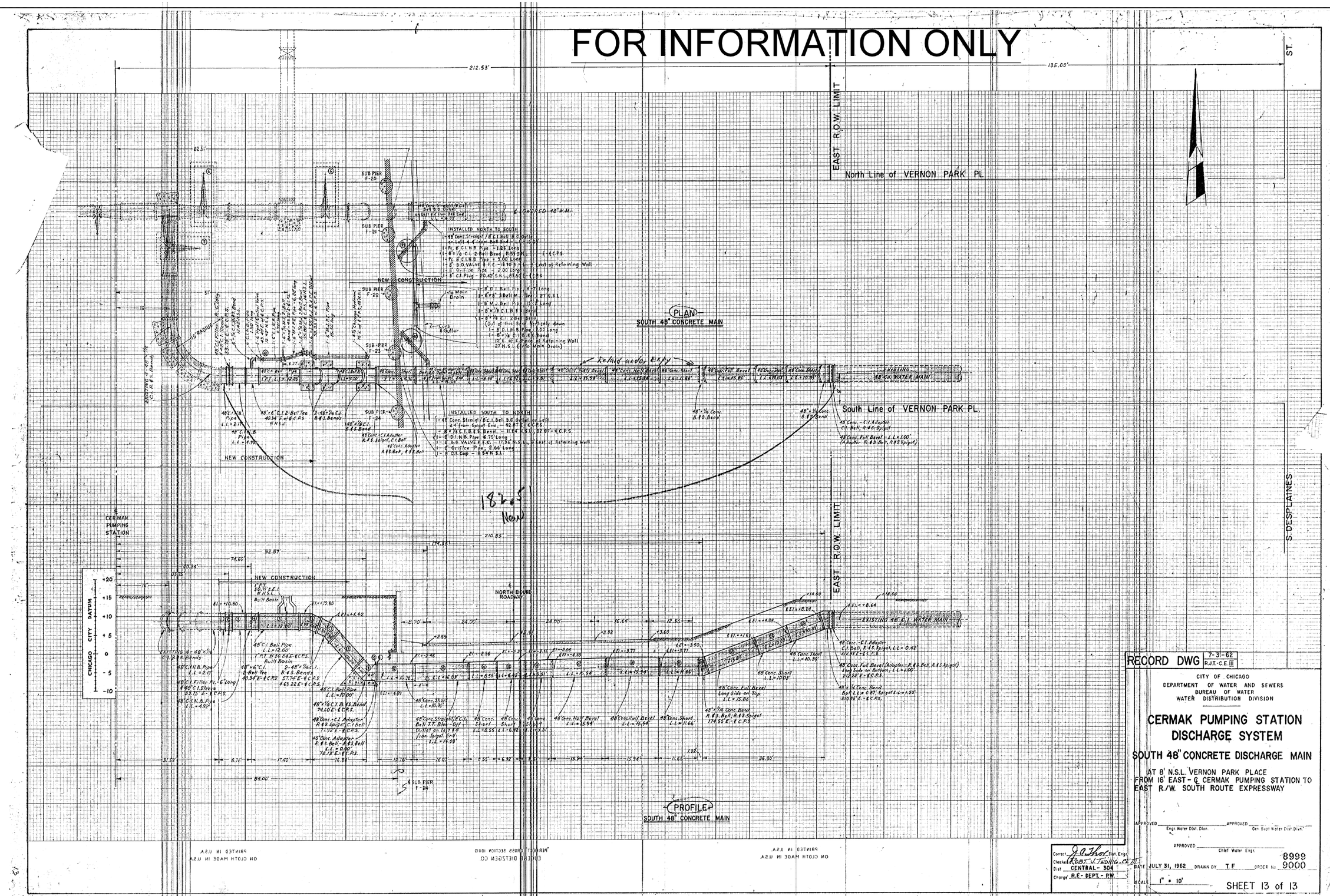
FOR INFORMATION ONLY



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RECORD DWG 7-31-62 R.J.T.-C.E. III

CITY OF CHICAGO
DEPARTMENT OF WATER AND SEWERS
BUREAU OF WATER
WATER DISTRIBUTION DIVISION

CERMAK PUMPING STATION DISCHARGE SYSTEM

SOUTH 48" CONCRETE DISCHARGE MAIN

AT 8' N.S.L. VERNON PARK PLACE FROM 16' EAST - ℄ CERMAK PUMPING STATION TO EAST R/W. SOUTH ROUTE EXPRESSWAY

APPROVED _____ Engr. Water Distr. Div.
APPROVED _____ Gen. Supt. Water Distr. Div.
APPROVED _____ Chief Water Engr.

Correct: J.A. Thor Cont. Engr.
Check: Robt. J. Twohig, C.E. III
Dist: CENTRAL - 304
Charge: R.E. - DEPT. - P.W.

DATE JULY 31, 1962 DRAWN BY T.F. ORDER No. 8999 9000

SCALE 1" = 10' SHEET 13 of 13

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-SHT-WM-REC-12.dgn	DESIGNED -		REVISED -
USER NAME = dshevaz	DRAWN -		REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -		REVISED -
PLOT DATE = 5/12/2017	DATE -	05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RECORD INFORMATION

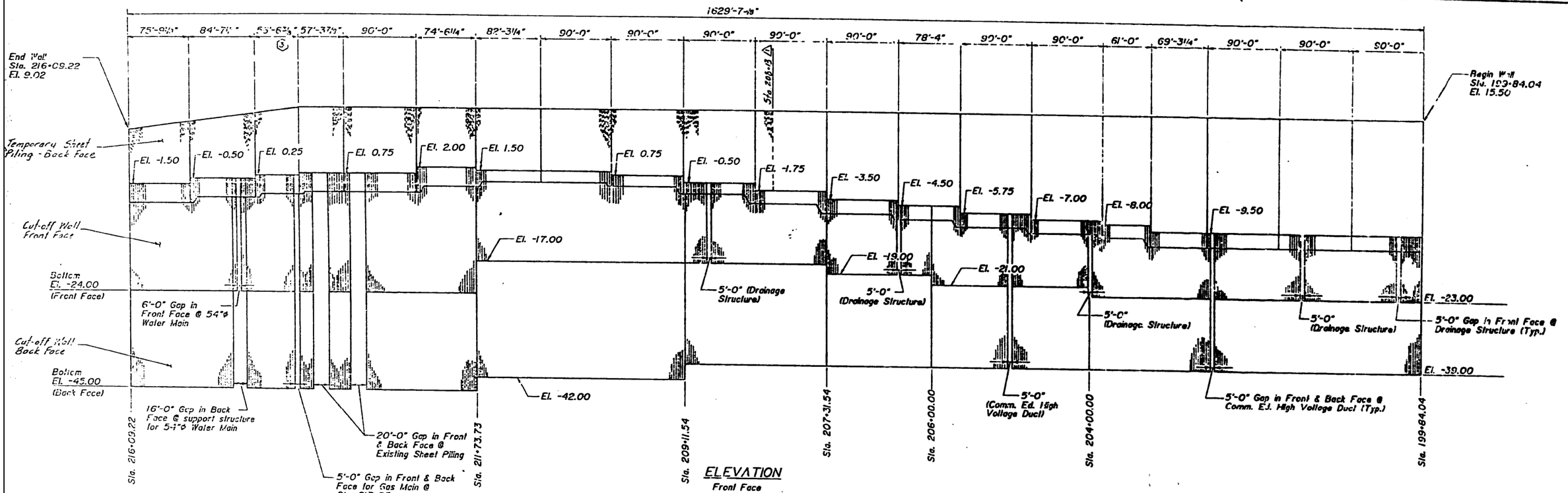
SCALE: | SHEET 12 OF 18 SHEETS | STA. | TO STA.

I.F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	136
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		

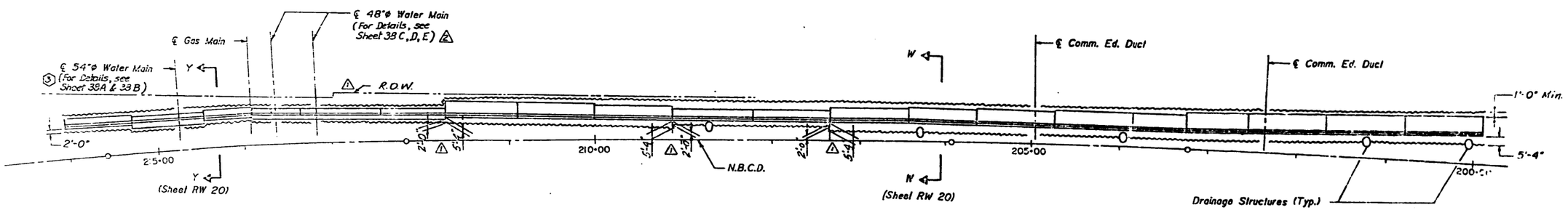
FILE PATH = P:\60288727\000.CAD\006.Roadway\Printing\62A74\Final 20170515\D162A74-SHT-WM-REC-12.dgn

FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	1985-080H	COOK	311	274
STA.		TO STA.		
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		



ELEVATION
Front Face



PLAN

SHEET RW 19 OF 30

REVISIONS	
Name	Date
(3) Revision	3-17-88

△ Rev. 11-23-87
△ Rev. 12-9-87

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-080H COOK COUNTY
ROADWAY GRADING AND PAVING

RETAINING WALL NO. 6
CUT-OFF WALL PLAN AND ELEVATION

Scale: NONE
Date: 8-14-87
Drawn By: SAW
Checked By: GSP

ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

FILE PATH = P:\60288727\000.CAD\006-Roadway\Printing\62A74\Final 20170515\D162A74-SHT-WM-REC-13.dgn

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-SHT-WM-REC-13.dgn	DESIGNED -	REVISED -
USER NAME = dshevaz	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

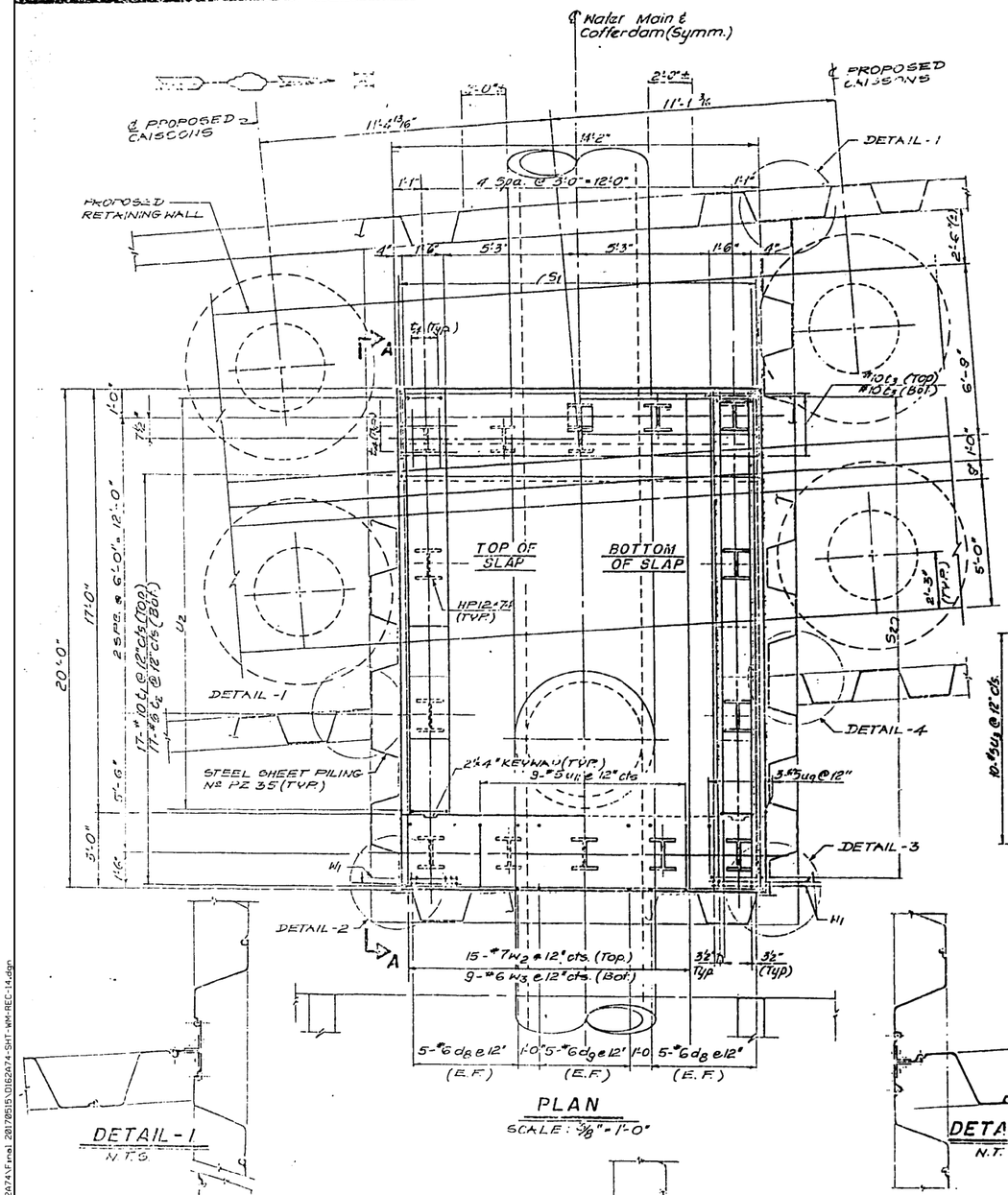
WATER MAIN RECORD INFORMATION

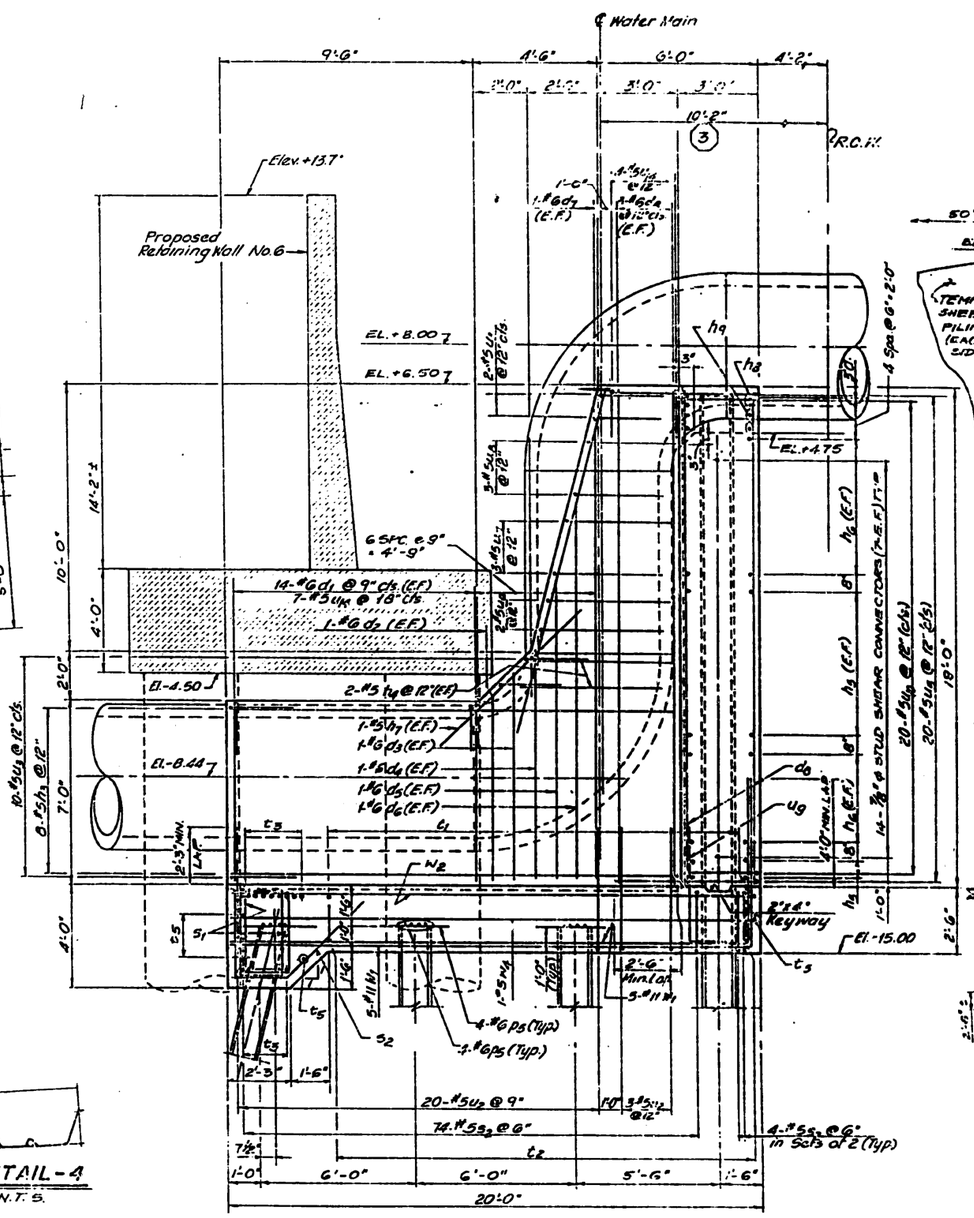
SCALE: | SHEET 13 OF 18 SHEETS | STA. | TO STA.

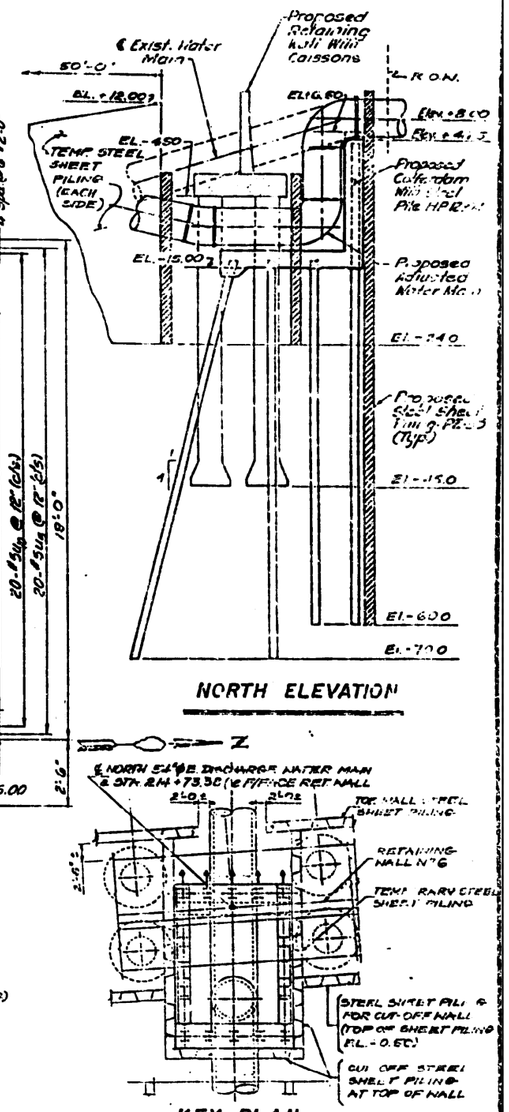
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	137
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

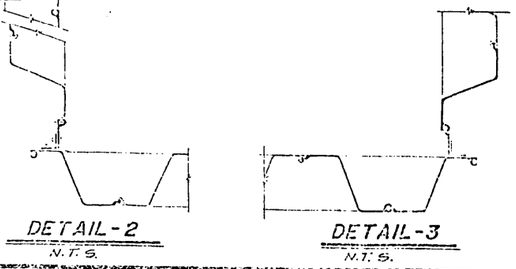
TOTAL SHEETS	SECTION	COUNTY	TOTAL BRIDGES	BRIDGE NO.
90/94	*	COOK	38	38A
STA.		TO STA.		
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		

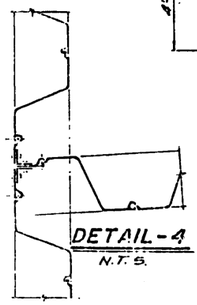
* 1985-090 R











BILL OF MATERIALS		
ITEM	UNIT	QUANTITY
Steel Sheet Piling-Temporary	S.F.	2960.0
Steel Sheet Piling	S.F.	5217.0
Furnishing Steel Piles (HP12x74)	Lin. Ft.	772.0
Driving Steel Piles	Lin. Ft.	771.0
Structure Excavation	C.Y.	394.0
Reinforcement Bars	Lbs.	12320.0
Class 'X' Concrete	C.Y.	77.0
Stud Shear Connectors	Each	70.0

NOTE:
WORK THIS SHEET WITH SHEET Nº 552

⚠ NEW SHEET 11/23/87

FOR INFORMATION ONLY

SHEET SS1 OF 2

REVISIONS	
Name	Date
⑤ Revision	11.23.87

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY
SECTION 1985-090 R -COOK COUNTY
ROADWAY GRADING AND PAVING
54"Ø WATER MAIN SUPPORT STRUCTURES
Scale: AS NOTED Drawn By: S.R.
Date: 11/11/1987 Checked By: R.K.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

FILE PATH = P:\60288727\000.CAD\006.Roadway\Printing\62A74\Final 20170515\D162A74-SHT-WM-REC-14.dgn

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-SHT-WM-REC-14.dgn	DESIGNED -	REVISED -
USER NAME = dshevaz	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RECORD INFORMATION

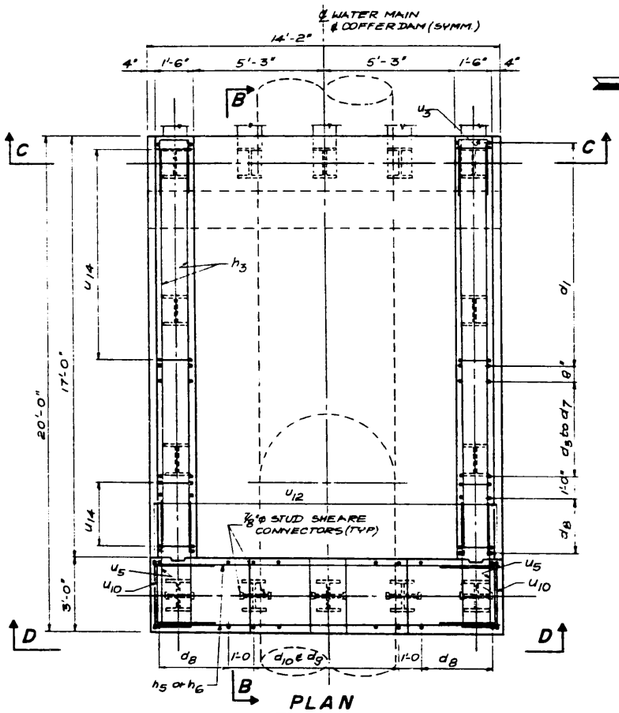
SCALE: | SHEET 14 OF 18 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	138
		CONTRACT NO. 62A74		
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY

FEDERAL AID ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	38	388
STA.		TO STA.		
FED. RD. DIST. NO	ILLINOIS	FED. AID PROJECT		

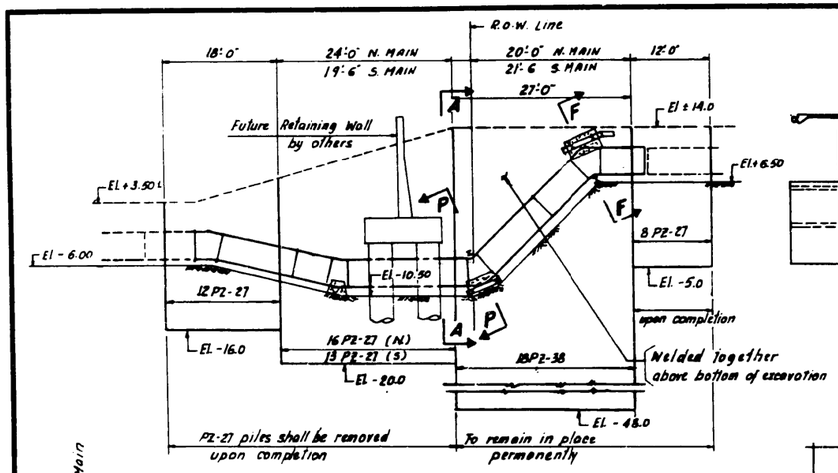
* 1985-080 R


℄ WATER MAIN & COFFERDAM (SYMM.)
14'-2"
4" 1'-6" 5'-3" 5'-3" 1'-6" 4"
B
C
D
Z
20'-0"
17'-0"
3'-0"
1'-0"
1'-0"
1

FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	#	COOK	38	38 C
STA.		TO STA.		
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		

S 1985-080 R



PROPOSED PROFILE
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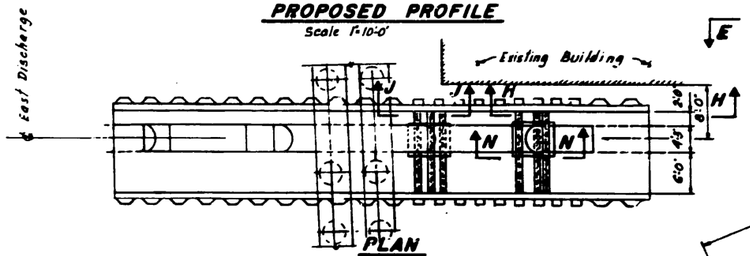
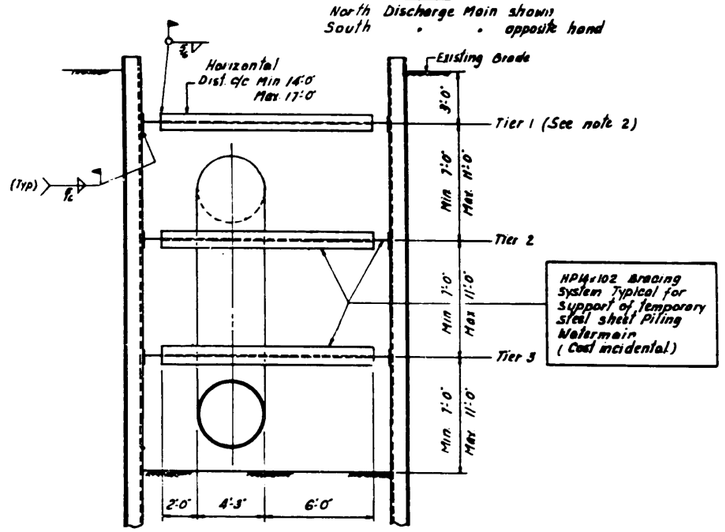


North Discharge Main shown
South " " opposite hand



SECTION A-A
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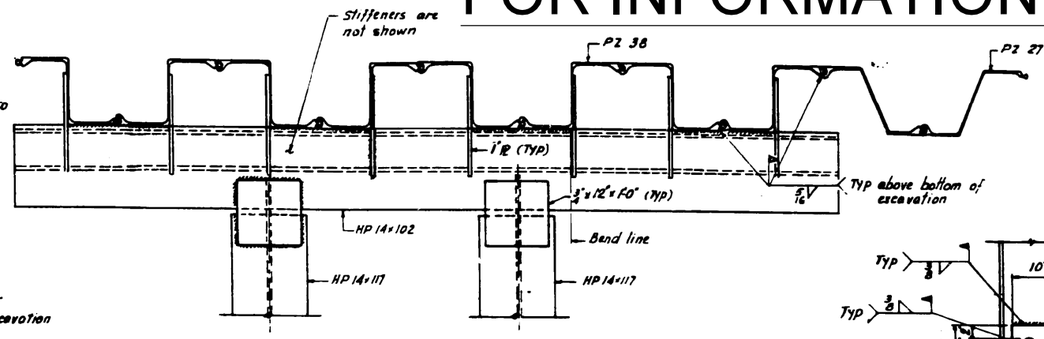
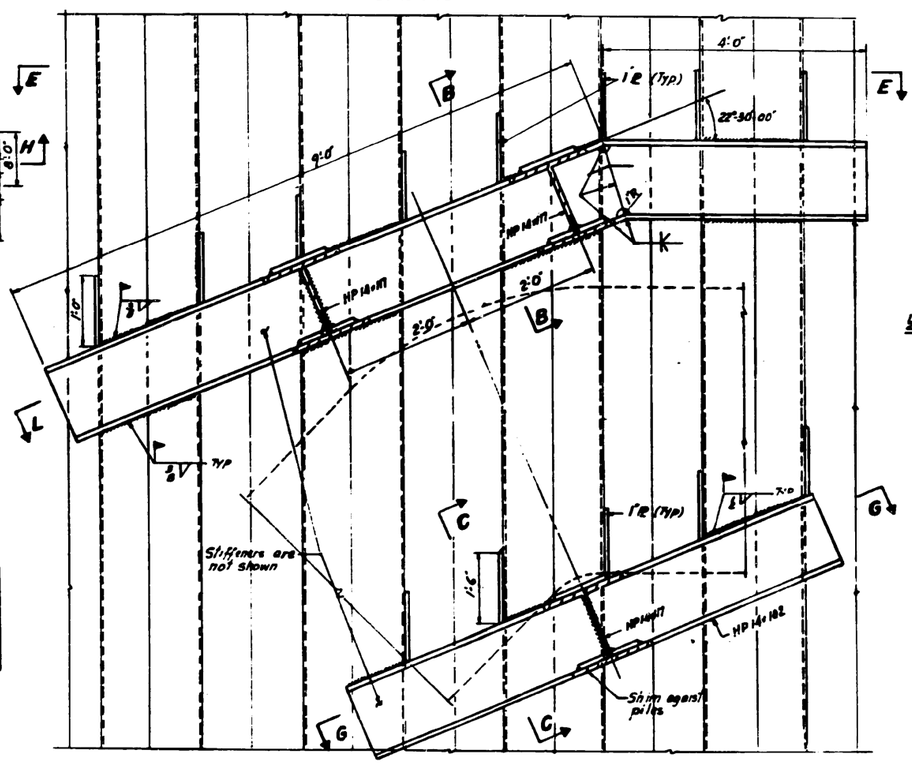
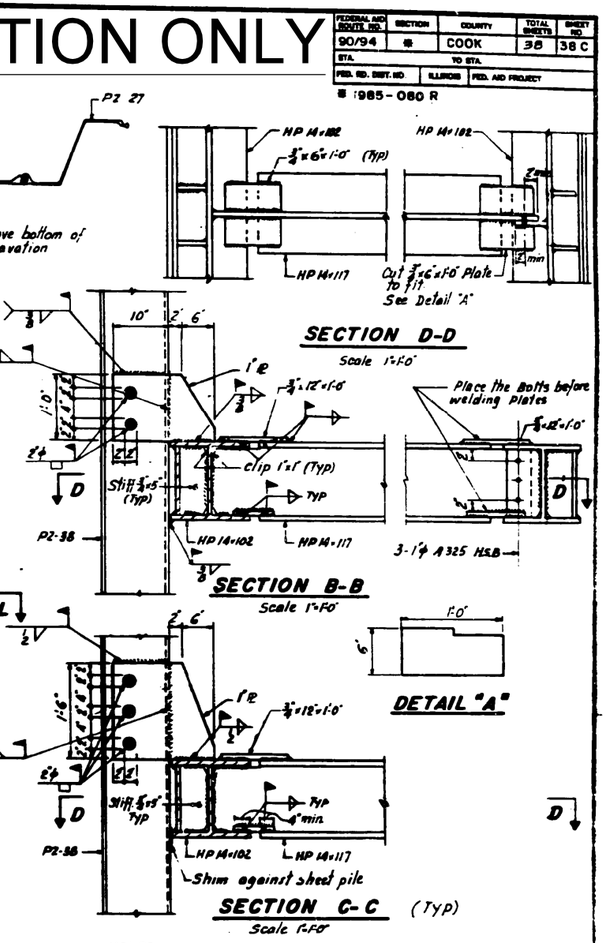


PLAN E-E
Scale 1"=1'-0"



SECTION H-H
Scale 1"=1'-0"



NOTES:

1. Work this sheet and sheet WR-2 together with sheet 2 of 2 which was prepared by the City of Chicago, Dept. of Water, Bureau of Water Distribution, indicating the general alignment and construction sequence of the water main relocation.
2. The Contractor shall locate the temporary struts and waters in such a way that the struts do not interfere with the installation of the new pipe.
3. It is the responsibility of the Contractor to prevent any soil movement outside the work area and to prevent settlement of adjacent Buildings
4. All welds shall utilize E 70 Electrodes.
5. Fillet welds to be ¼" unless noted
6. All elevations are approximate.
7. Water shall not be let into pipe before concrete reaches a compressive strength of 3500 psi
8. For Water Main location, see Sheet 2.4.

SHEET WR-1 OF 3

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-080R COOK COUNTY
ROADWAY GRADING AND PAVING
RELOCATION OF SOUTH & NORTH
48" EAST DISCHARGE WATERMAINS
Scale : NONE Drawn By: JS
Date : AUGUST 14, 1987 Checked By: RA
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

Rev. Dec. 7, 1987 (New Sheet)

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-SHT-WM-REC-16.dgn	DESIGNED -	REVISED -
USER NAME = dshevaz	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RECORD INFORMATION

SCALE: | SHEET 16 OF 18 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	140
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		

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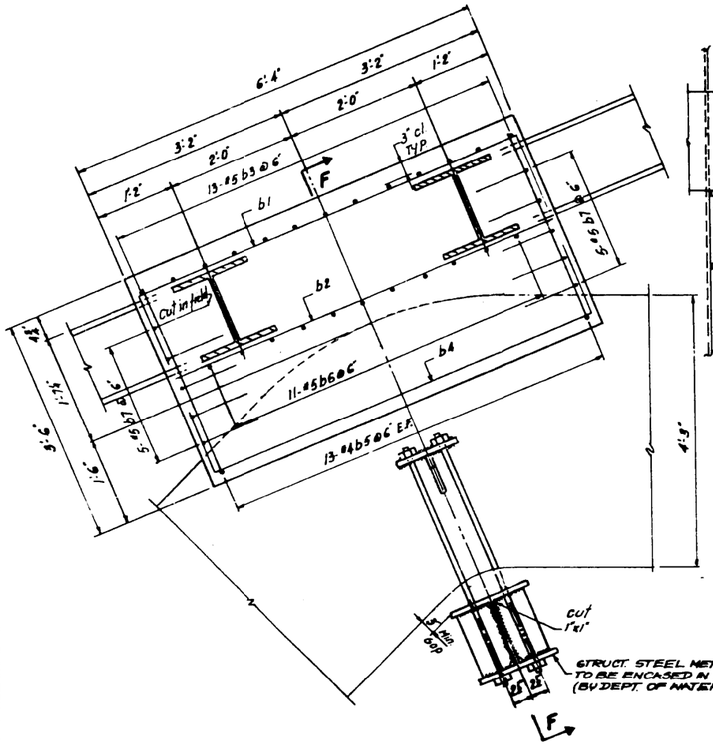
FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0	COOK	58	36D
STA.		TO STA.		
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		

IL 1985-080 R



SECTION N-N
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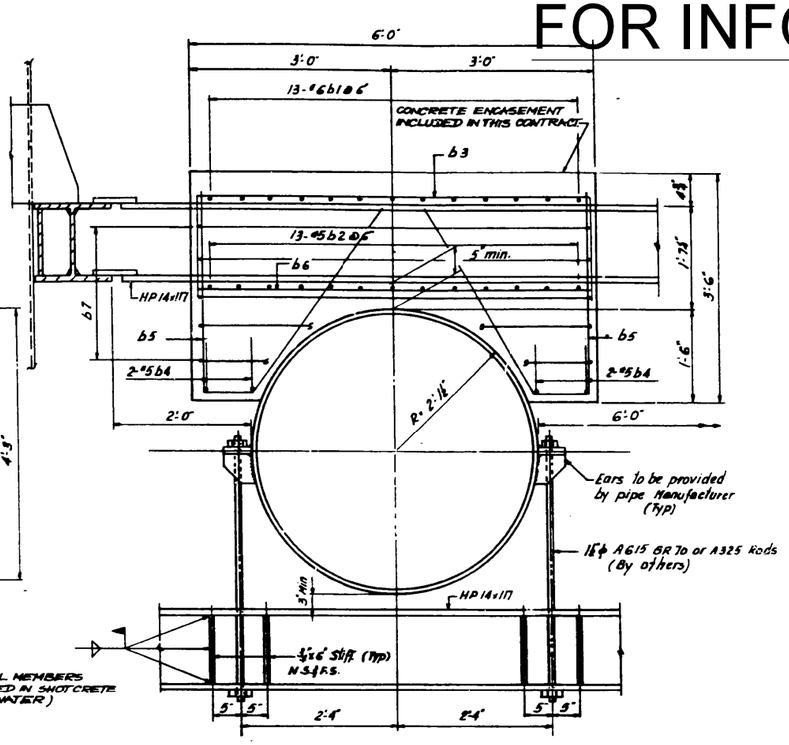

SECTION F-F
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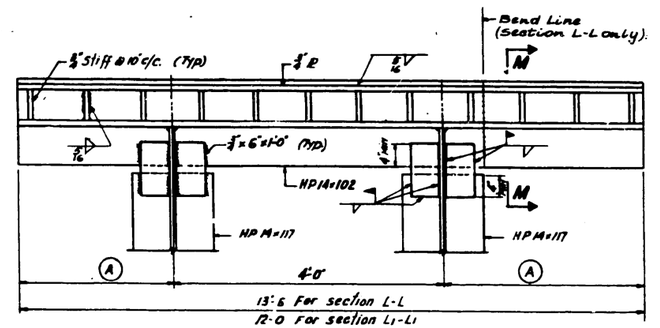
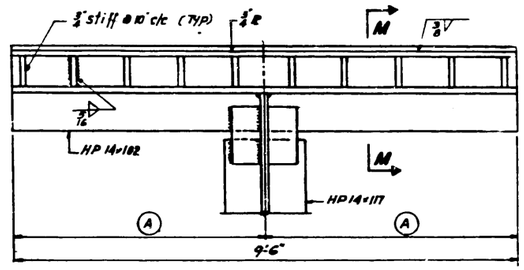
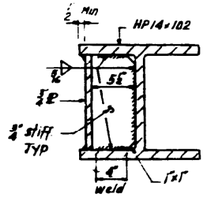


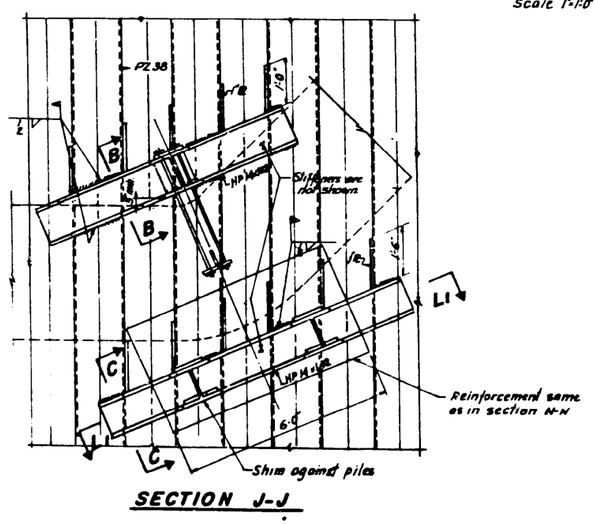
SECTION L-L & L1-L1
Scale 1"=1'-0"



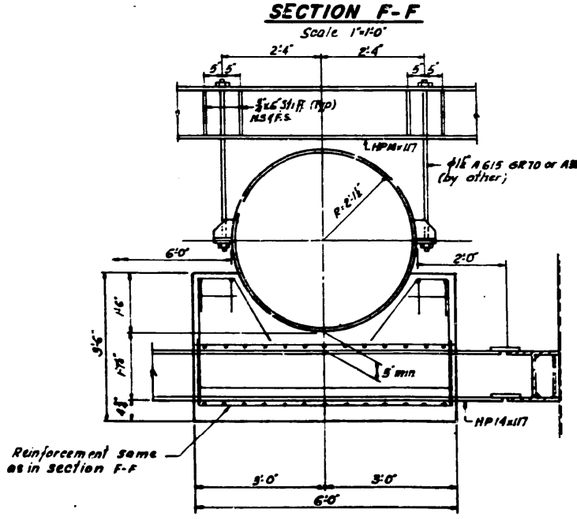


SECTION M-M
Scale 1½"=1'-0"

SECTION 6-6
Scale 1"=1'-0"



SECTION J-J



SECTION P-P
N.T.S

BENDING DIAGRAM

REINFORCEMENT BAR LIST

MARK	NO.	SIZE	LENGTH	SHAPE
b1	26	#6	8'-10"	
b2	26	#5	5'-10"	
b3	26	#5	8'-6"	
b4	8	#5	8'-10"	
b5	52	#4	1'-3"	
b6	22	#5	5'-6"	
b7	20	#5	8'-0"	

(For each Watermain)

BENT BAR DETAILS

MARK	A	B	C	D
b1	5'-10"	1'-6"	1'-6"	—
b3	5'-6"	1'-6"	1'-6"	—
b4	5'-10"	1'-6"	1'-6"	—
b5	*	3'-0"	*	*
b7	5'-6"	1'-3"	1'-3" *	—

* Bend To Fit

Δ Rev. Dec. 7, 1987 (New Sheet)

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structure Excavation	Cu. Yd.	1480
Permanent Stl. sheet Piling-Watermain	S.F.	10,660
Temporary stl. sheet Piling-Watermain	S.F.	7,740
Furnishing and Erecting Struct Stl. support system	L.S.	1
Class 'X' Concrete	Cu. Yd.	16.2
Reinforcement Bars	Lb.	2690

(A) To be determined in the Field. Work this sheet with sheet WR-1

ESTIMATED WEIGHT OF STRUCT. STEEL = 25,670 Lbs.

SHEET WR-2 OF 3

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-080R COOK COUNTY
ROADWAY GRADING AND PAVING
RELOCATION OF SOUTH & NORTH 48" EAST DISCHARGE WATERMAINS
Scale: NONE Drawn By: JG
Date: AUGUST 14, 1987 Checked By: RA
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

FILE PATH = P:\60288727\000.CAD\006.Roadway\Printing\62A74\Final 20170515\D162A74-SHT-WM-REC-17.dgn

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-SHT-WM-REC-17.dgn	DESIGNED -	REVISED -
USER NAME = dshevaz	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RECORD INFORMATION

SCALE: | SHEET 17 OF 18 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	141
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	S	COOK	38	38 E
STA.		TO STA.		
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		

1985-080 R

General Notes

1) All shooting to be PS-27

2) Sheeting is to be driven to the depths shown on the plan and left in place. After installation of the pipe, all shooting is to be cut off 1 foot above the pipe.

3) All design calculations for the necessary steel support system are to be submitted to the Engineer of Bureau of Water Distribution prior to the start of construction.

4) All struts are to be spaced a minimum of 7' c.c. vertically and 10' c.c. horizontally.

5) All thrust restraint members shall be one piece W21 x 122

6) Welds which the limits of the area where shooting is to be welded shall be GP 1in101.

7) A 1" x 12" x 2' steel plate is to be welded across the top of thrust restraint braces centered on the line of proposed pipe. (See Section AA & BB, Sheet 3).

8) The 1" tie rods (2 req'd for each bend) are to penetrate the steel stiffner and both flanges of the thrust restraints as shown in Detail A, Sheet 3)

9) All thrust restraint members shall be encased in concrete or shotcrete.

10) The Contractor shall dispose of all excavated materials.

11) The Contractor shall coordinate all work with City of Chicago, Department of Water Distribution, Bureau of Water Distribution.

Construction Sequence

1) Bureau of Water Distribution will shut down and de-water 48" water mains.

2) Contractor will drive all steel sheeting as shown on the plan.

3) Bureau of Water Distribution will cut and bulkhead 48" water mains at points 1 and 2 as shown on the plans.

4) Contractor will then excavate to the limits shown on the plan, install bracing, perform necessary welding and remove abandoned pipe.

5) Bureau of Water Distribution will now install pipe and fittings and make connections to existing pipe.

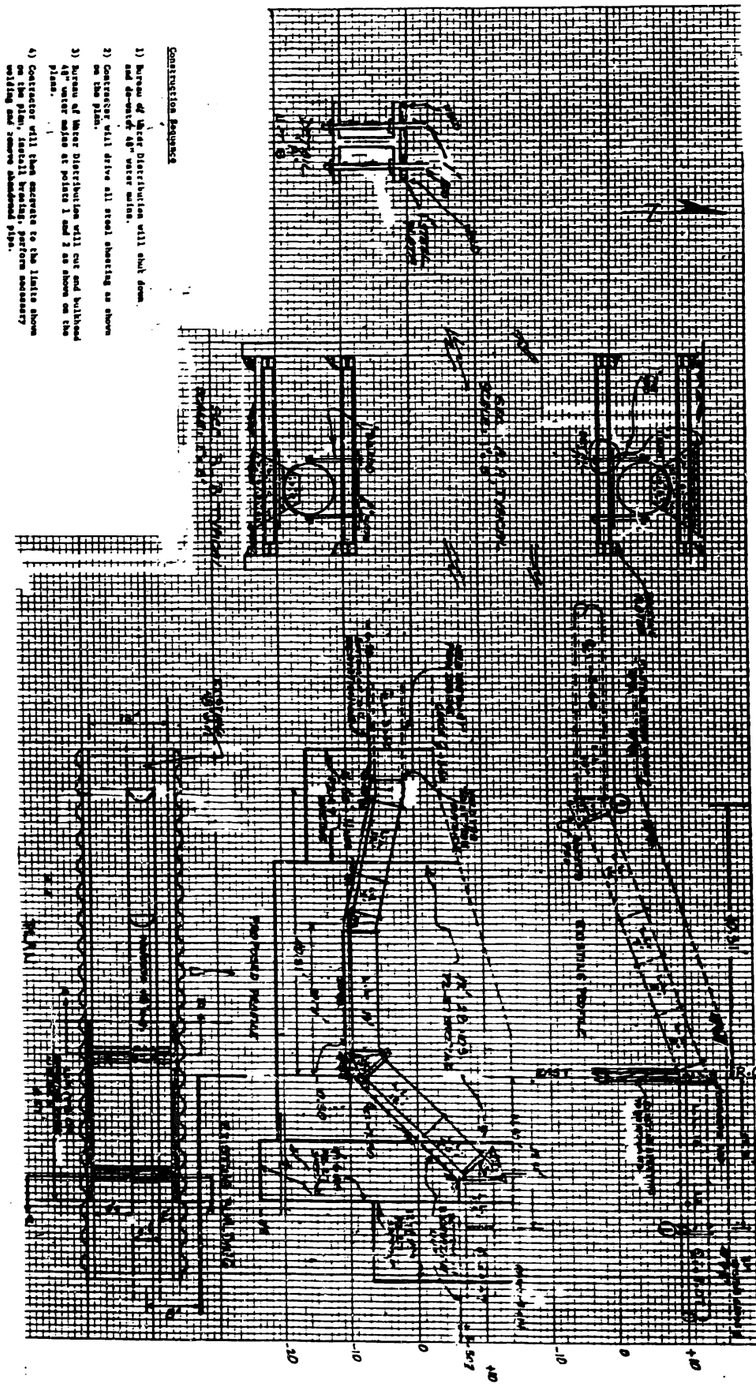
6) Contractor will install thrust restraint members.

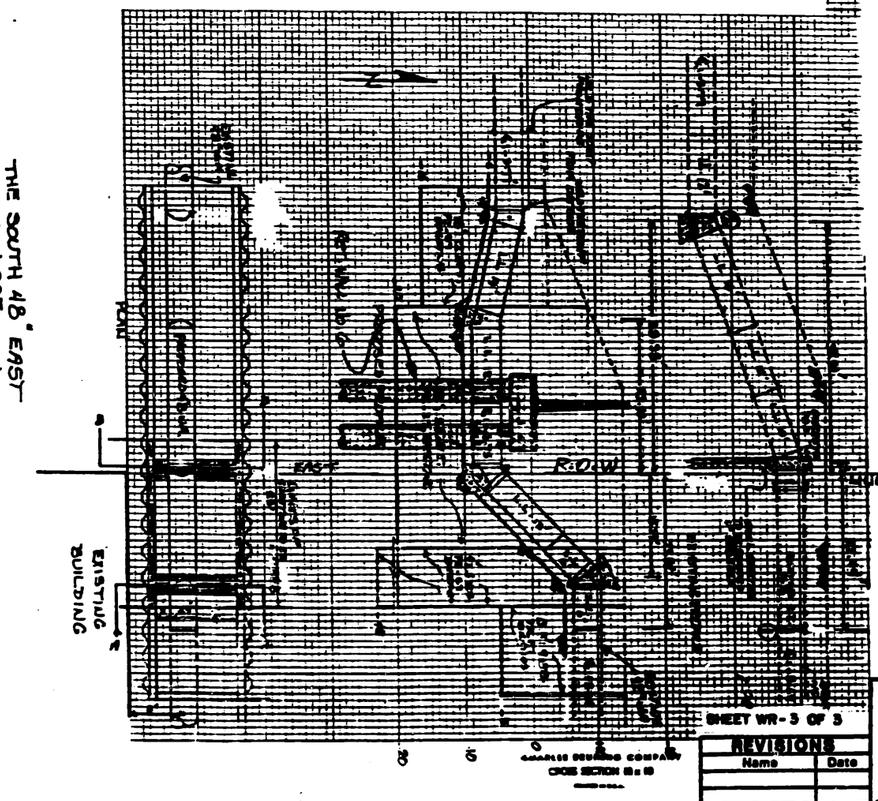
7) Bureau of Water Distribution will furnish and install 1" dia rods and install concrete pads. (Restraint members not encased in concrete are to be shotcreted)

8) Bureau of Water Distribution will backfill and compact trench to top of pipe.

9) Contractor will cut off all shooting 1' above top of pipe and dispose of the cut-offs.

10) Bureau of Water Distribution will complete backfilling and compaction of trench area.





PREPARED BY CITY OF CHICAGO
DEPARTMENT OF WATER
BUREAU OF WATER DISTRIBUTION

SHEET 2 OF 2

FOR INFORMATION ONLY

SHEET WR-3 OF 3

REVISIONS	
Name	Date

Rev. Dec 7, 1987 (New Sheet)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 1985-080R COOK COUNTY
ROADWAY GRADING AND PAVING
RELOCATION OF SOUTH & NORTH
48" EAST DISCHARGE WATERMAINS
Scale: NONE — Drawn By: JS
Date: AUGUST 14, 1987 — Checked By: RA
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-SHT-WM-REC-18.dgn	DESIGNED -	REVISED -
USER NAME = dshevaz	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN RECORD INFORMATION

SCALE: | SHEET 18 OF 18 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	142
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		

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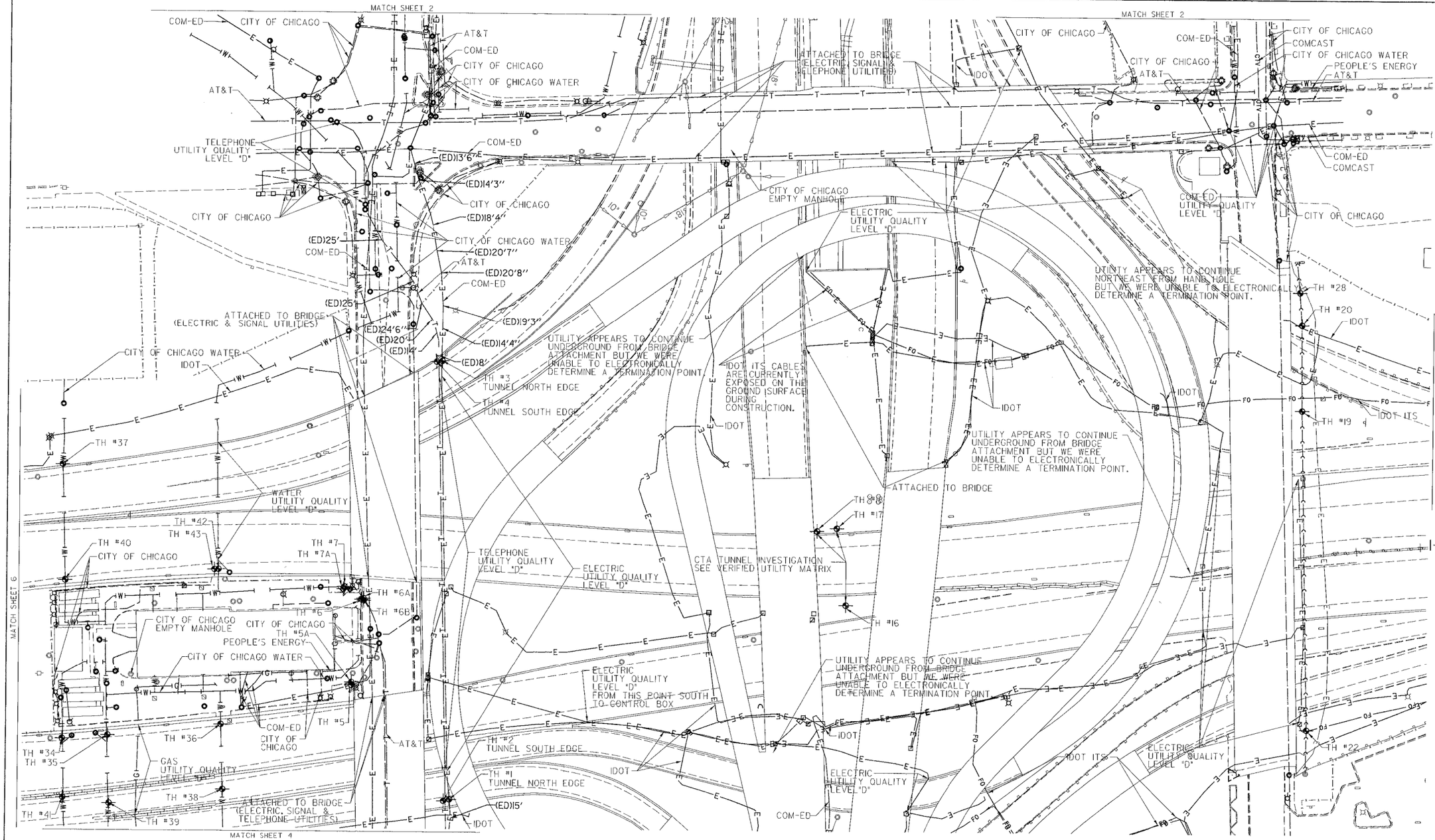


AERIAL	A
UNKNOWN	
CABLE TV	CTV
TELEPHONE	T
GAS	G
ELECTRIC	E
TRAFFIC SIGNAL/LIGHTING	
WATER	W
SANITARY SEWER	
FIBER OPTIC	FO
TBE TEST HOLE	
END OF INFORMATION	EOI

UTILITY OWNERS
AT&T = TELEPHONE
COM-ED = ELECTRIC
CITY OF CHICAGO = ELECTRIC
CITY OF CHICAGO WATER = WATER
IDOT = ELECTRIC
IDOT ITS = FIBER OPTIC
PEOPLE'S ENERGY = GAS

NOTE: ALL ELECTRONIC DEPTHS MARKED AS (ED) WERE OBTAINED UTILIZING A SONDE DEVICE. DEPTHS ON THE AT&T DUCT WERE RECORDED FROM AN AT&T CONTRACTOR. DEPTHS ON THE COMED DUCT WERE RECORDED BY A CARDNO CREW. CARDNO CAN NOT VERIFY THE ACCURACY OF THESE DEPTHS AND SHOULD BE USED AS APPROXIMATE AND AS INFORMATION ONLY.

UTILITIES SHOWN ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY CARDNO IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO CARDNO BY OTHERS. CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 3/14/13 THROUGH 10/21/15. CHANGES TO UTILITIES MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

20 0 METERS 20 40
50 0 FEET 50 100

LICENSED PROFESSIONAL ENGINEER
MICHAEL G. RANDOLPH
062-065419
STATE OF ILLINOIS
Signature
12/18/15
date
license expires 11-30-2017

Cardno TBE

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510531, 563, 647
SUE Plan Page: 3 of 12

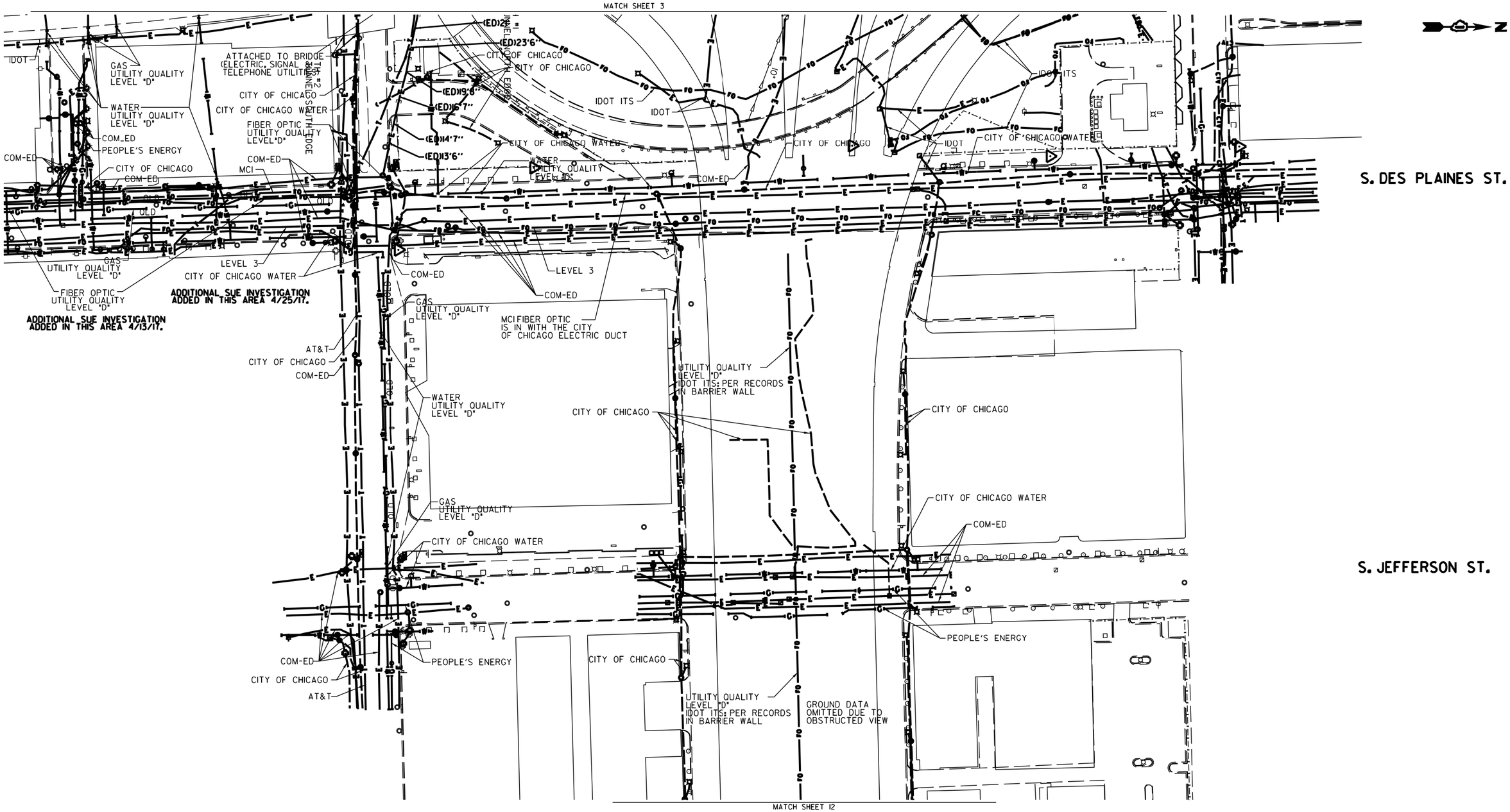
Utility Quality Level 'A': Visually Verified Test Hole
Utility Quality Level 'B': Designating/non Visually Verified Test Hole
Utility Quality Level 'C': Research with Survey
Utility Quality Level 'D': Records Research

DESIGNED	IP	REVISED
DRAWN	SRK	REVISED
CHECKED	MGR	REVISED
DATE	12/18/15	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-941-901-290 (Circle Interchange)
Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	275	143
		Contract No. N/A		
FED. ROAD DIST. NO.	ILLINOIS	IDOT Project No. P-91-259-12		



AERIAL
UNKNOWN
CABLE TV
TELEPHONE
GAS
ELECTRIC
TRAFFIC SIGNAL/LIGHTING
WATER
SANITARY SEWER
FIBER OPTIC
TBE TEST HOLE
END OF INFORMATION

UTILITY OWNERS

AT&T = TELEPHONE
COM-ED = ELECTRIC
CITY OF CHICAGO = ELECTRIC
CITY OF CHICAGO = SANITARY SEWER
CITY OF CHICAGO WATER = WATER
IDOT = ELECTRIC
IDOT SURVEILLANCE = FIBER OPTIC
LEVEL 3 = FIBER OPTIC
MCI = FIBER OPTIC
PEOPLE'S ENERGY = GAS

NOTE: ALL ELECTRONIC DEPTHS MARKED AS (ED) WERE OBTAINED UTILIZING A SONDE DEVICE. DEPTHS ON THE AT&T DUCT WERE RECORDED FROM AN AT&T CONTRACTOR. DEPTHS ON THE COMED DUCT WERE RECORDED BY A CARDNO CREW. CARDNO CAN NOT VERIFY THE ACCURACY OF THESE DEPTHS AND SHOULD BE USED AS APPROXIMATE AND AS INFORMATION ONLY.

UTILITIES SHOWN ON THESE PLANS AS DEPICTED IN THE LEGEND HAVE BEEN INVESTIGATED BY CARDNO IN ACCORDANCE WITH SUE INDUSTRY STANDARDS. ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED TO CARDNO BY OTHERS. CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 3/14/13 THROUGH 8/07/14. CHANGES TO UTILITIES MAY HAVE BEEN MADE AND THEREFORE MAY RESULT IN VARIANCES FROM THIS PLAN. CONSIDERATION SHOULD BE GIVEN TO UPDATING THIS PLAN IF DEEMED ADVISABLE PRIOR TO FINAL DESIGN AND CONSTRUCTION.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 3/27/17 THROUGH 4/07/17 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

ADDITIONAL CARDNO SUE FIELD INVESTIGATION WAS PERFORMED 4/25/17 AND SURVEYED BY CLAASSEN, WHITE & ASSOCIATES.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

20 0 METERS 20 40
50 0 FEET 50 100

LICENSED PROFESSIONAL ENGINEER
KENNETH F. SLANINKA, Jr.
062-055488
STATE OF ILLINOIS
signature
5-04-17
date
license expires 11-30-17

Cardno TBE

CWA SURVEY
CLAASSEN, WHITE & ASSOCIATES, P.C.
LAND SURVEYORS
121 AIRPORT DRIVE, UNIT 1, JOLIET, ILLINOIS 60431
(815) 744-3723 claassenwhite@cwasurvey.com

Dynasty Group
Engineers & Surveyors

TBE Job No. IL09510531, 563, 647, 737
SUE Plan Page: 4 of 12

Utility Quality Level "A": Visually Verified Test Hole
Utility Quality Level "B": Designating/non Visually Verified Test Hole
Utility Quality Level "C": Research with Survey
Utility Quality Level "D": Records Research

DESIGNED	JP	REVISED	4/13/17
DRAWN	SRK	REVISED	5/1/17
CHECKED	MGR	REVISED	
DATE	12/18/15	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-941-901-290 (Circle Interchange)
Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	275	144
		Contract No. N/A		

FED. ROAD DIST. NO. _ | ILLINOIS | IDOT Project No. P-91-259-12

VERIFIED UTILITY INFORMATION

TEST HOLE #	SIZE & TYPE	NORTHING	EASTING	EXISTING TOP ELEVATION	EXISTING CUT	REFERENCE ELEVATION	SUE QUALITY LEVEL	COMMENTS
26	N/A WATER	1898814.654	1171391.251	572.75′	7.50′	580.25′	B	
27	N/A WATER	1898814.915	1171395.719	571.67′	7.16′	578.83′	B	
28	N/A SIPHON	1898446.146	1171286.067	572.68′	13.38′	586.06′	B	
29	N/A SIPHON	1899863.107	1171643.779	572.74′	7.90′	580.64′	B	
30	N/A SIPHON	1899845.426	1171642.747	572.90′	7.06′	579.96′	A	
31	N/A SIPHON	1899845.311	1171651.515	575.42′	6.42′	581.84′	A	
32	N/A SIPHON	1899833.821	1171355.929	576.15′	3.62′	579.77′	A	
32A	N/A SIPHON	1899861.396	1171360.162	574.89′	4.07′	579.07′	A	
32B	N/A SIPHON	1899847.605	1171358.462	575.20′	4.18′	579.38′	A	
33	N/A FIBER OPTIC	1899742.060	1171648.471	N/A	SEE NOTE	585.56′	C	
34	48" WATER	1897228.575	1171732.883	576.44′	5.14′	581.58′	A	
35	48" WATER	1897273.960	1171729.504	576.92′	4.46′	581.38′	A	
36	N/A WATER	1897385.054	1171718.156	578.38′	2.22′	580.60′	A	
37	54" WATER	1897227.364	1171462.933	576.33′	6.03′	582.36′	A	
38	N/A WATER	1897387.290	1171782.047	576.60′	5.46′	582.06′	A	
39	N/A WATER	1897275.870	1171796.286	577.47′	5.97′	583.44′	A	
40	54" WATER	1897230.523	1171576.646	578.58′	2.80′	581.38′	A	
41	N/A WATER	1897229.624	1171790.841	577.55′	6.17′	583.72′	A	
42	48" WATER	1897381.570	1171565.533	575.29′	4.43′	579.72′	A	
43	14"x14" UNKNOWN	1897377.583	1171565.776	577.49′	2.14′	579.63′	A	

NOTES

TH #26 - Unable to visually verify utility due to back fill infiltrating the test hole. However, by utilizing the air lance we were able to feel what is believed to be the edges and top of the pipe. Records indicate utility to be a 16″ pipe.
TH #27 - Unable to visually verify utility due to back fill infiltrating the test hole. However, by utilizing the air lance we were able to feel what is believed to be the edges and top of the pipe. Records indicate utility to be a 16″ pipe.
TH #28 - Unable to visually verify utility due to back fill and ground water infiltrating the test hole. However, by utilizing the air lance we were able to feel what is believed to be the crown of pipe. Records indicate utility to be a 60″ pipe.
TH #29 - Unable to visually verify utility due to sand and ground water infiltrating the test hole. However, by utilizing the air lance we were able to feel what is believed to be the crown of pipe. Records indicate utility to be a 60″ pipe.
TH #30 - Exposed what we believe to be the crown of the concrete pipe. Records indicate the utility to be a 108″ pipe.
TH #31 - Exposed what we believe to be the crown of the concrete pipe. Records indicate the utility to be a 108″ pipe. Found what we believe to be the Siphon Outlet Chamber.
TH #32 - Found a flat formed concrete structure. Reference point placed in line with southern edge of concrete structure.
TH #32A - Found a flat formed concrete structure. Reference point placed in line with Northern edge of concrete structure.
TH #32B - Found a flat formed concrete structure. Reference point placed in line with center of concrete structure.
TH #33 - Were only able to excavated to a depth of 10′ and did not find utility. Electronic depths indicate utility to 27′ +/- deep.
TH #35 - Depth taken from top of pipe joint.
TH #38 - Were only able to see the top crown of pipe. Records indicate pipe size to be 36″.
TH #39 - Were only able to see the top crown of pipe. Records indicate pipe size to be 48″.
TH #40 - Pipe appears to be on a slight upward angle towards the retaining wall.
TH #41 - Were only able to see the top crown of pipe. Records indicate pipe size to be 48″.
TH #42 - Depth taken from top of pipe joint.
TH #43 - Found unknown concrete 14′x14′ structure that appears to be a duct.

ALL INFORMATION SHOWN WAS OBTAINED FROM A LOCATION SURVEY.

Cardno TBE
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL
* PLANNING * UTILITY ENGINEERING/LOCATING

Checked By: _____
Date: _____

TBE Job No. IL09510531, 563, 647
SHEET 2 OF 2

DESIGNED	EG	REVISED	
DRAWN	SRK	REVISED	
CHECKED	MGR	REVISED	
DATE	12/18/15	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-941-901-290 (Circle Interchange)
Chicago, Illinois

SHEET NO. | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	275	145

Contract No. N/A

FED. ROAD DIST. NO. | ILLINOIS | Job No.: P-91-259-12

VERIFIED UTILITY INFORMATION

TEST HOLE #	SIZE & TYPE	NORTHING	EASTING	EXISTING TOP ELEVATION	EXISTING CUT	REFERENCE ELEVATION	SUE QUALITY LEVEL	COMMENTS
44	SEE NOTE GAS	1897941.863	1167859.669	572.26′	8.14′	580.40′	B	
45	18"x4" ELECTRIC	1897934.185	1168300.312	574.30′	5.26′	579.56′	A	
46	6" UNKOWN	1897935.218	1168302.972	577.15′	2.31′	579.46′	A	
47	60" SANITARY	1897000.917	1171469.596	582.85′	9.84′	592.69′	A	
48	SEE NOTE WATER	1900713.310	1171605.295	571.30′	8.18′	579.48′	B	
49	2" WATER	1897809.914	1169798.544	588.83′	4.92′	593.75′	A	
49A	8" WATER	1897809.914	1169798.544	587.83′	5.92′	593.75′	A	
50	42" TELEPHONE	1897887.300	1170967.618	568.18′	7.04′	575.22′	A	
50A	2" TELEPHONE	1897887.267	1170965.824	570.40′	4.81′	575.21′	A	
50B	42" TELEPHONE	1897887.404	1170969.381	568.18′	7.04′	575.22′	A	
51	(2) 4" ELECTRIC	1897848.317	1170019.373	573.62′	3.71′	577.33′	A	
51A	(2) 4" ELECTRIC	1897848.348	1170018.630	573.73′	3.63′	577.36′	A	
52	16" WATER	1898832.110	1171343.510	587.38′	5.02′	592.40′	A	
52A	(2) 4" FIBER OPTIC	1898829.974	1171344.221	589.65′	2.92′	592.57′	A	
53	16" WATER	1898840.107	1171675.502	587.67′	5.08′	592.75′	A	
54	12" WATER	1900715.908	1171642.460	586.55′	7.00′	593.55′	A	
54A	12" WATER	1900715.908	1900715.908	570.95′	22.60′	593.55′	A	
55A	40"X18" ELEC/FIBER OPTIC	1897053.710	1171439.938	590.22′	2.69′	592.91′	A	
55B	40"X18" ELEC/FIBER OPTIC	1897053.710	1171439.938	588.72′	4.19′	592.91′	A	
55C	40"X18" ELEC/FIBER OPTIC	1897053.661	1171436.669	590.23′	2.38′	592.61′	A	
55D	(2) 1.5" UNKNOWN	1897054.054	1171438.116	590.37′	2.12′	592.49′	A	
56A	40" ELEC/FIBER OPTIC	1897086.682	1171423.877	588.81′	3.92′	592.73′	A	
56B	(2) 1.5" UNKNOWN	1897087.277	1171425.482	589.26′	3.45′	592.71′	A	
56C	40" ELEC/FIBER OPTIC	1897087.963	1171426.847	588.63′	4.03′	592.66′	A	

NOTES

TH #44 - Unable to visually verify utility due to back fill infiltrating the test hole. However, by utilizing the air lance we were able to feel what is believed to be the edges and top of the pipe. Records indicate utility to be a 18" pipe.
TH #48 - Unable to visually verify utility due to back fill infiltrating the test hole. However, by utilizing the air lance we were able to feel what is believed to be the edges and top of the pipe. Records indicate utility to be a 12" pipe.
TH #51 - Found (2) 4" conduits side by side. Reference placed in the center of Eastern pipe.
TH #51A - Found (2) 4" conduits side by side. Reference placed in the center of Western pipe.
TH #52A - Found (2) 4" conduits side by side. Reference placed in the center of the two pipes.
TH #54 - Claassen, White & Associates obtained an elevation of 586.55 on the 90 degree bend on the water main inside the manhole. The approximate manual depth of 7′ was also obtained by Claassen, White & Associates.
TH #54A - Claassen, White & Associates obtained an elevation of 570.95 on the water main near the bottom of the manhole as it heads West.
The approximate manual depth of 22.6′ was also obtained by Claassen, White & Associates.
TH #55A - Exposed the top Eastern edge of the concrete duct.
TH #55B - Exposed the bottom Eastern edge of the concrete duct.
TH #55C - Exposed the top Western edge of the concrete duct.
TH #55D - Exposed (2) 1.5" unknown direct buried cables laying on top of the concrete duct in approximately the center of the duct.
TH #56A - Exposed the top Western edge of the concrete duct.
TH #56B - Exposed (2) 1.5" unknown direct buried cables laying on top of the concrete duct in approximately the center of the duct.
TH #56C - Exposed the bottom eastern edge of the concrete duct. Also attempted to expose the bottom eastern edge of the duct but we were unable, due to the gravel fill infiltrating the test hole.

ALL INFORMATION SHOWN WAS OBTAINED FROM A LOCATION SURVEY.

CWA SURVEY
CLAASSEN, WHITE & ASSOCIATES, P.C.
LAND SURVEYORS
121 AIRPORT DRIVE, UNIT 1, JOLIET, ILLINOIS 60431
(815) 744-3720 claassenwhite@cwasurvey.com

Cardno TBE
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL
* PLANNING * UTILITY ENGINEERING/LOCATING

Checked By: _____
Date: _____

TBE Job No. IL09510531, 563, 647, 737
SHEET 3 OF 3

DESIGNED EJ	REVISED 3/07/17 ADDED TH#52-54		
DRAWN KLC	REVISED 3/13/17 ADDED TH#54A		
CHECKED KS	REVISED 5/01/17 ADDED TH#55A - 56C		
DATE 12/20/16	REVISED		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-941-901-290 (Circle Interchange)
Chicago, Illinois

SHEET NO. | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	275	146
Contract No. N/A				
FED. ROAD DIST. NO.	ILLINOIS	Job No.: P-91-259-12		

PAVEMENT MARKING SCHEDULE

SHEET	ROADWAY/STATION	THERMOPLASTIC PAVEMENT MARKING - LINE 4" FOOT	THERMOPLASTIC PAVEMENT MARKING - LINE 12" FOOT	MODIFIED URETHANE PAVEMENT MARKING - LINE 4" FOOT	MODIFIED URETHANE PAVEMENT MARKING - LINE 5" FOOT	MODIFIED URETHANE PAVEMENT MARKING - LINE 8" FOOT	MODIFIED URETHANE PAVEMENT MARKING - LINE 12" FOOT	PAVEMENT MARKING REMOVAL - WATER BLASTING SQ FT	RAISED REFLECTIVE PAVEMENT MARKER EACH
1	26+48.06 (EX BL RAMP WS) TO 206+50 (EX BL SB I-90/94)	-	-	1,190	269	2,245	64	2,421	27
2	206+50 (EX BL SB I-90/94) TO STA 7322+50.76 (PR BL EB TAYLOR EXIT RAMP)	-	-	-	72	1,029	57	744	8
PLAN-05	DES PLAINES STREET	139	36	-	-	-	-	51	-
	SUBTOTALS	139	36	1,190	341	3,274	121	3,216	35
	ALLOWANCE	21	6	179	52	492	19	483	6
	TOTALS WITH ALLOWANCE	**160**	**42**	**1,369**	**393**	**3,766**	**140**	**3,699**	**41**

SIGNING SCHEDULE

DESCRIPTION							SIGN PANEL DIMENSIONS		SIGN PANEL - TYPE 1	TELESCOPING STEEL SIGN SUPPORT	REMOVE SIGN PANEL ASSEMBLY - TYPE A
LOCATION	SIGN NO.	LEGEND / DESCRIPTION	SIGN TYPE	BASELINE	LOCATION (STATION / OFFSET)		WIDTH (FT)	HEIGHT (FT)	(SQ FT)	(FOOT)	(EACH)
UIC ACCESS ROAD	EX-01	NO PARKING, NO STOPPING, NO STANDING AT ANY TIME, TOW ZONE	REGULARTORY	PR BL EB TAYLOR EXIT RAMP	7313+78.37	25.24' RT	1.5	2	-	-	1
	EX-02	NO PARKING, NO STOPPING, NO STANDING AT ANY TIME, TOW ZONE	REGULARTORY	PR BL EB TAYLOR EXIT RAMP	7314+95.22	10.39' RT	1.5	2	-	-	1
	EX-03	NO PARKING, NO STOPPING, NO STANDING AT ANY TIME, TOW ZONE	REGULARTORY	PR BL EB TAYLOR EXIT RAMP	7316+17.67	9.75' RT	1.5	2	-	-	1
	PR-01	NO PARKING, NO STOPPING, NO STANDING AT ANY TIME, TOW ZONE	REGULARTORY	PR BL EB TAYLOR EXIT RAMP	7313+78.37	25.24' RT	1.5	2	3.0	13.5	-
	PR-02	NO PARKING, NO STOPPING, NO STANDING AT ANY TIME, TOW ZONE	REGULARTORY	PR BL EB TAYLOR EXIT RAMP	7314+95.22	10.39' RT	1.5	2	3.0	13.5	-
	PR-03	NO PARKING, NO STOPPING, NO STANDING AT ANY TIME, TOW ZONE	REGULARTORY	PR BL EB TAYLOR EXIT RAMP	7316+17.67	9.75' RT	1.5	2	3.0	13.5	-
	PR-04	DO NOT ENTER	REGULARTORY	PR DES PLAINES STREET	4123+55.52	168.40' LT	3	3	9.0	-	-
								ROUNDED TOTAL	**18**	**41**	**3**

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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

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PLOT SCALE = 100.0000 ' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

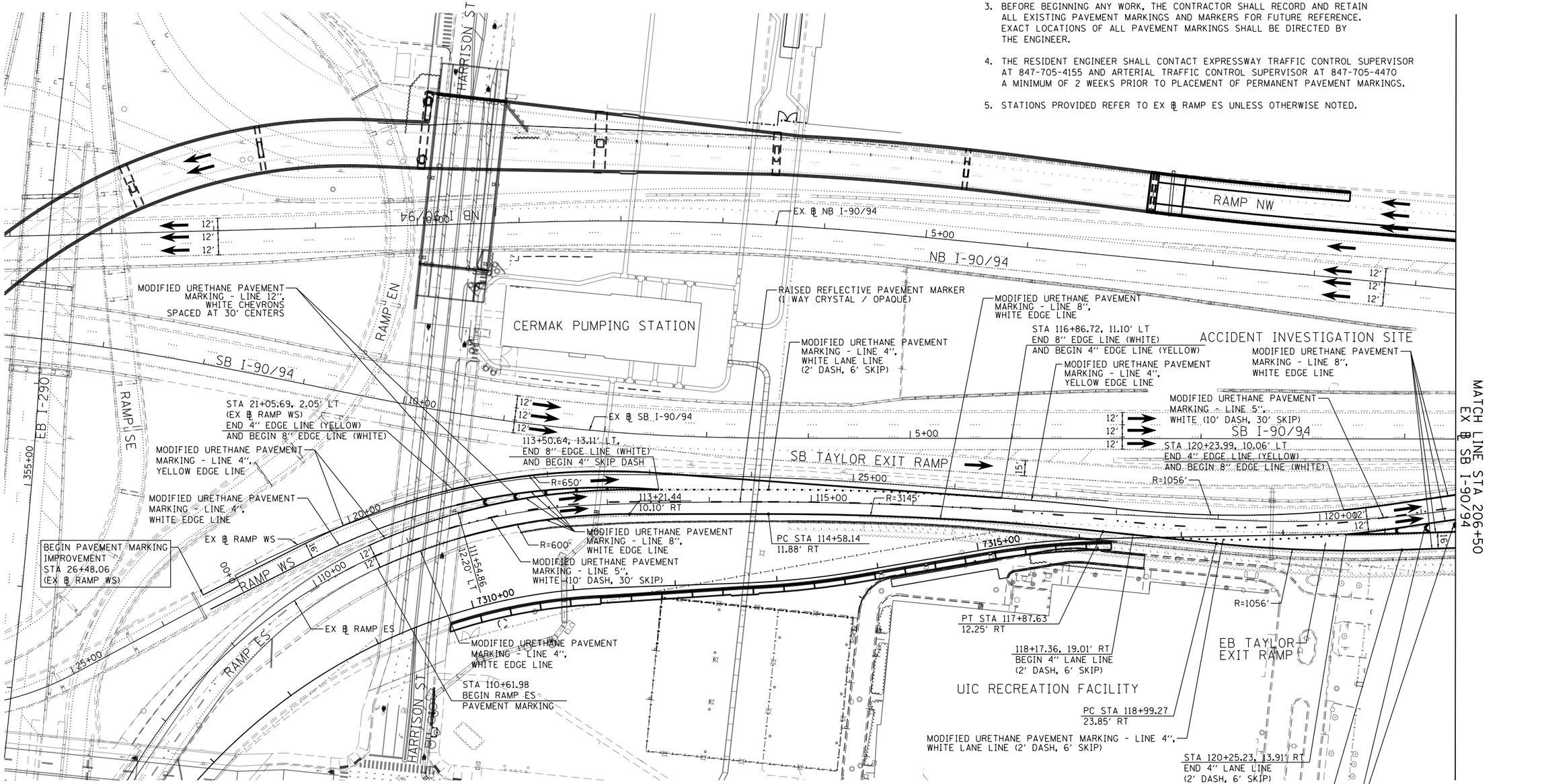
PAVEMENT MARKING AND SIGNING SCHEDULE

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	147
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

PAVEMENT MARKING NOTES

1. ALL FINAL PAVEMENT MARKING MATERIALS SHALL BE MODIFIED URETHANE PAVEMENT MARKING.
2. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE OF THE IMPROVEMENT LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
3. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RECORD AND RETAIN ALL EXISTING PAVEMENT MARKINGS AND MARKERS FOR FUTURE REFERENCE. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE DIRECTED BY THE ENGINEER.
4. THE RESIDENT ENGINEER SHALL CONTACT EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT 847-705-4155 AND ARTERIAL TRAFFIC CONTROL SUPERVISOR AT 847-705-4470 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
5. STATIONS PROVIDED REFER TO EX ℄ RAMP ES UNLESS OTHERWISE NOTED.



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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

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USER NAME = dshevaz	DRAWN - OPS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - MJE	REVISED -
PLOT DATE = 5/15/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINLINE PAVEMENT MARKING PLAN

SCALE: 1"=50' | SHEET 1 OF 2 SHEETS | STA. 26+48.06 TO STA. 206+50

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	148
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		

TAYLOR STREET

RUBLE STREET

TAYLOR ST NB ENTRANCE RAMP

12′ 12′ 12′ NB I-90/94

205+00

℄ NB I-90/94

END PAVEMENT MARKING IMPROVEMENT STA 124+17.87 (℄ RAMP ES)

200+00

NB I-90/94 EXIT TO WB I-290

12′ 12′ 12′ NB I-90/94

195+00

MATCH LINE STA 206+50 ℄ SB I-90/94

12′ 12′ 12′ SB I-90/94

205+00

℄ SB I-90/94

℄ RAMP ES

125+00

200+00

12′ 12′ 12′ 12′ 12′ SB I-90/94

195+00

RAMP WS/RAMP ES

12′ 12′

SB TAYLOR EXIT RAMP

7320+00

EB TAYLOR EXIT RAMP

7325+00

STA 124+19.00, 10.81′ RT (℄ RAMP ES)

PR ℄ EB TAYLOR EXIT RAMP

STA 7321+99.36, 11.89′ RT (PR ℄ EB TAYLOR EXIT RAMP)

RAISED REFLECTIVE PAVEMENT MARKER (1 WAY CRYSTAL / OPAQUE)

MODIFIED URETHANE PAVEMENT MARKING - LINE 5″, WHITE (10′ DASH, 30′ SKIP)

MODIFIED URETHANE PAVEMENT MARKING - LINE 8″, WHITE EDGE LINE

MODIFIED URETHANE PAVEMENT MARKING - LINE 12″, WHITE CHEVRONS SPACED AT 30′ CENTERS

TAYLOR STREET

UNION AVE

N

0 50 100

SCALE: 1″=50′

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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

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PLOT SCALE = 100.0000 ′ / in.	CHECKED - MJE	REVISED -
PLOT DATE = 5/15/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINLINE PAVEMENT MARKING PLAN

SCALE: 1″=50′ | SHEET 2 OF 2 SHEETS | STA. 209+00 TO STA. 15+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	149
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

ELECTRICAL SYMBOLS FOR PROPOSED WORK

LIGHT TOWER:
400W HPS LUMINAIRES
NUMBER INDICATES TOWER TYPE

TYPE	TOWER HEIGHT
13 -	130 FEET
15 -	150 FEET

LIGHTING UNIT: TYPE AS INDICATED

47'-6" M.H., 6 FT. DAVIT ARM
400W HPS M-C-III LUMINAIRE.
MOUNTED ON PARAPET WALL

47'-6" M.H., 12 FT. DAVIT ARM
400W HPS M-C-III LUMINAIRE.
MOUNTED ON PARAPET WALL

47'-6" M.H., 2-6 FT. DAVIT ARM
2-400W HPS M-C-III LUMINAIRES.
MOUNTED ON PARAPET WALL

EXISTING LIGHTING UNIT TO BE REMOVED AND REINSTALLED ON A NEW FOUNDATION

TEMPORARY LIGHTING UNIT: WOOD POLE WITH LUMINAIRES; 80 FOOT WOOD POLE WITH FOUR 400W HPS HIGH MAST LUMINAIRES

UNDERPASS LUMINAIRE:
HPS, WATTAGE AS SHOWN ON PLANS (PRIMARY DISTRIBUTION PATTERN DIRECTION AS INDICATED BY ARROW)

MANHOLE

ELECTRIC HANDHOLE: TYPE AS INDICATED

TYPE E1: PRECAST CONCRETE, 21.5"x21.5"x30", IDOT STANDARD 814001

TYPE E2: PRECAST CONCRETE-HEAVY DUTY, 22"x22"x30", IDOT STANDARD 814001

TYPE C1: COMMUNICATIONS VAULT, 49⅝"x32⅛"x57"

TYPE S1: PRECAST CONCRETE-HEAVY DUTY, 22"x22"x36"

TYPE S2: PRECAST CONCRETE-HEAVY DUTY SPECIAL, 30"x30"x36"

JUNCTION BOX: TYPE AND SIZE AS INDICATED ON PLANS

PULL BOX: TYPE AND SIZE AS INDICATED ON PLANS

TELEPHONE CONNECTION

FIBER OPTIC COMMUNICATIONS HUT

LIGHTED SIGN STRUCTURE-CANTILEVER TYPE (NUMBER OF FLUORESCENT FIXTURES AS INDICATED - TYP.)

LIGHTED SIGN STRUCTURE-TRUSS TYPE

LIGHTED SIGN STRUCTURE-BRIDGE MOUNT TYPE

DYNAMIC MESSAGE SIGN

FLASHING BEACON SIGN

CLOSED CIRCUIT TELEVISION CAMERA

MICROWAVE DETECTOR

DETECTOR LOOP

CONTROLLER CABINET: LIGHTING, RADIO CONTROL DUPLEX TYPE WITH SCADA (DOOR SIDE AS INDICATED)

CONTROLLER CABINET: SURVEILLANCE

CONTROLLER CABINET: SURVEILLANCE, TYPE 334

RAMP METER SIGNAL POLE/HEAD

RAMP METER FLASHER POST

TEMPORARY WOOD POLE, LENGTH AS INDICATED ON THE PLANS

HIGHWAY ADVISORY RADIO ANTENNA

ELECTRIC UTILITY POLE

CCTV CAMERA POLE

POLE MOUNTED ELECTRIC UTILITY TRANSFORMER(S)

PAD MOUNTED ELECTRIC UTILITY TRANSFORMER

GROUND ROD

MAIN SERVICE FUSED DISCONNECT SWITCH (RATING AS INDICATED)

PHOTOCELL

AERIAL CABLE

FLEXIBLE CONDUIT

RACEWAY EMBEDDED IN STRUCTURE

EXPOSED CONDUIT

RACEWAY OR DIRECT BURIAL CABLE UNDERGROUND WITHOUT ENCASEMENT

RIGID GALVANIZED STEEL CONDUIT SLEEVE, INSTALLED BELOW PAVEMENT

UNDERGROUND REINFORCED CONCRETE ENCASED CONDUIT DUCTBANK, UNLESS NOTED OTHERWISE. (NUMBER, TYPE, AND SIZE OF DUCTS AS SHOWN)

CONDUIT TURNED DOWN

CONDUIT TURNED UP

ELECTRICAL SYMBOLS FOR EXISTING CONDITIONS

EXISTING LIGHT TOWER

EXISTING LIGHTING UNIT, TWIN LUMINAIRE

EXISTING LIGHTING UNIT

EXISTING TEMPORARY LIGHTING UNIT

EXISTING CDOT LIGHTING UNIT

EXISTING UNDERPASS LUMINAIRE

EXISTING ELECTRIC MANHOLE

EXISTING ELECTRIC HANDHOLE

EXISTING JUNCTION BOX

EXISTING PULL BOX

EXISTING TELEPHONE CONNECTION

EXISTING FIBER OPTIC COMMUNICATIONS HUT

EXISTING ELECTRIC HANDHOLE/MANHOLE

EXISTING CDOT SURVEILLANCE CABINET

EXISTING CDOT ELECTRIC HANDHOLE/MANHOLE

EXISTING LIGHTED SIGN STRUCTURE-CANTILEVER TYPE

EXISTING LIGHTED SIGN STRUCTURE-TRUSS TYPE

EXISTING LIGHTED SIGN STRUCTURE-BRIDGE MOUNT TYPE

EXISTING DYNAMIC MESSAGE SIGN

EXISTING FLASHING BEACON SIGN

EXISTING CLOSED CIRCUIT TELEVISION CAMERA

EXISTING MICROWAVE DETECTOR

EXISTING DETECTOR LOOP

EXISTING LIGHTING CONTROLLER, DUPLEX

EXISTING CONTROLLER CABINET

EXISTING RAMP METER FLASHER

EXISTING HIGHWAY ADVISORY RADIO ANTENNA

EXISTING CCTV CAMERA POLE

EXISTING UTILITY SERVICE CONNECTION, POLE MOUNTED

EXISTING UTILITY SERVICE CONNECTION, PAD MOUNTED

EXISTING CONCEALED CONDUIT IN STRUCTURE

EXISTING EXPOSED CONDUIT

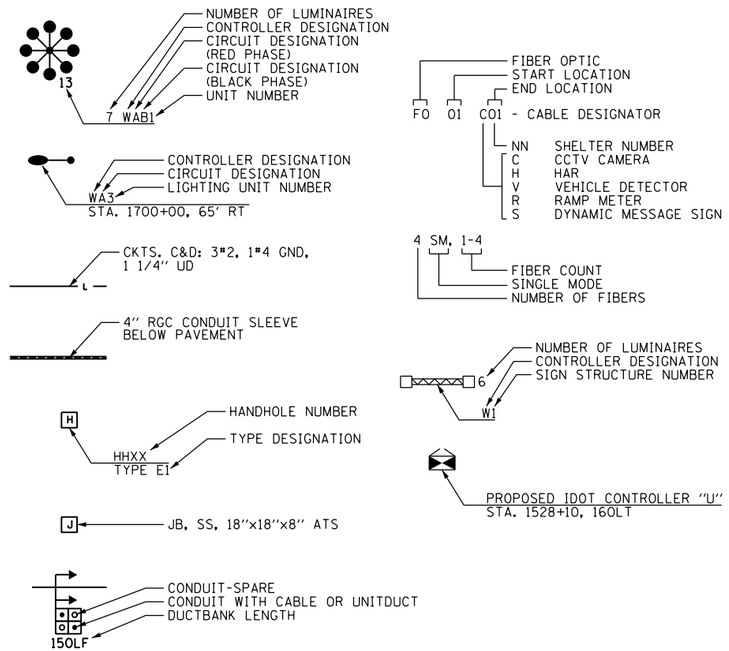
EXISTING RACEWAY OR DIRECT BURIED CABLE WITHOUT ENCASEMENT

EXISTING CONCEALED CONDUIT UNDERGROUND, TRENCHED OR PUSHED

EXISTING ELECTRIC CABLE IN CONDUIT SLEEVE

EXISTING AERIAL CABLE TO REMAIN

GENERAL ELECTRICAL CALLOUTS



TYPICAL EXISTING TO BE REMOVED SYMBOLS

EXISTING LIGHTING UNIT TO BE REMOVED

EXISTING UNDERPASS LUMINAIRE TO BE REMOVED

EXISTING JUNCTION BOX TO BE REMOVED

EXISTING LIGHTED SIGN STRUCTURE-CANTILEVER TYPE TO BE REMOVED

DYNAMIC MESSAGE SIGN TO BE REMOVED

FLASHING BEACON SIGN TO BE REMOVED

EXISTING LIGHTING CONTROLLER, DUPLEX TO BE REMOVED

EXISTING CONTROLLER CABINET TO BE REMOVED

EXISTING DETECTOR LOOP TO BE REMOVED

EXISTING RAMP METER SIGNAL POLE/HEAD TO BE REMOVED

EXISTING RAMP METER FLASHER TO BE REMOVED

EXISTING POLE MOUNTED UTILITY SERVICE CONNECTION TO BE REMOVED

EXISTING LIGHT TOWER, PAD, AND FOUNDATION TO BE REMOVED

E-01

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-sht-Light-01	DESIGNED - PFD	REVISED -
USER NAME = mgersc	DRAWN - CAM	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT ELECTRICAL SYMBOLS

SCALE: N.T.S. | SHEET 1 OF 14 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	150
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		

FILE PATH = pw:\617479-PWINT.aecomonline.local:AECOM_DS02_NA\Documents\01 Americas\Transportation\60269938 Circle\Phase II\000.CAD\016.Electrical\Sheets\62074_Contract\D162674-sht-Light-01

NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. EXISTING LIGHT TOWER 6 DGH2 SHALL NOT BE REMOVED UNTIL THE TEMPORARY LIGHTING UNIT SHOWN ON DRAWING E-03 HAS BEEN INSTALLED, ENERGIZED, TESTED AND APPROVED BY IDOT. THIS WORK SHALL BE STAGED AND COORDINATED SUCH THAT ONE OF THESE TWO LIGHTING UNITS SHALL BE OPERATIONAL DURING NIGHTTIME HOURS. THE CONTRACTOR SHALL PROVIDE A TEMPORARY LIGHTING SYSTEM, IF NEEDED, TO STAGE THIS WORK AT NO ADDITIONAL COST TO THE CONTRACT. IF A TEMPORARY LIGHTING SYSTEM IS NEEDED IT SHALL BE DESIGNED BY THE CONTRACTOR AND SUBMITTED TO IDOT FOR APPROVAL PRIOR TO BEGINNING ANY LIGHT TOWER REMOVAL WORK. THE TEMPORARY LIGHTING SYSTEM SHALL BE DESIGNED TO MATCH OR EXCEED THE EXISTING ILLUMINATION LEVELS PROVIDED BY THE EXISTING IDOT LIGHTING SYSTEM. THE CONTRACTOR SHALL PROVIDE PHOTOMETRIC CALCULATIONS FOR THE TEMPORARY LIGHTING SYSTEM FOR IDOT'S REVIEW AND APPROVAL.
3. EXISTING LIGHT TOWER 6 DGH2 AND FOUNDATION TO BE REMOVED AND NOT SALVAGED.
4. DISCONNECT THE EXISTING LIGHTING CIRCUITS DG AND DH AT THE JUNCTION BOX PRIOR TO REMOVAL.

CERMAK PUMPING STATION
RAMP EN
SB I-90/94
11
10+00
9
8
EX ℄ SB I-90/94
SB I-90/94
7
RAMP EN
24
23
RAMP WS/ES
22
EX ℄ RAMP WS
EXISTING CONDUIT AND CABLE TO BE ABANDONED
114
EXISTING CONDUIT AND CABLE TO BE ABANDONED
115
6 DGH2
STA. 7312+87
21
113
112
120+00
111
NOTES 2 AND 3
7313
PR ℄ EB TAYLOR EXIT
119
RAMP WS
REMOVE EXISTING JUNCTION BOX, ATS NOTE 4
7312
7311
RAMP ES
110+00
7310+00
HARRISON STREET
REMOVE EXISTING JUNCTION BOX, ATS
7309
UIC TENNIS COURTS
UIC BASKETBALL COURTS
REMOVE EXISTING CONDUIT, ATS
N
0
20
40
SCALE: 1"=20'

E-02

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT EXISTING/DEMOLITION LIGHTING PLAN

SCALE: 1" = 20' | SHEET 2 OF 14 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	151
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. SEE DRAWING E-05 FOR A CONTINUATION OF THE POWER FEED FOR THE TEMPORARY LIGHTING UNIT.
3. SEE IDOT STANDARD DRAWING BE-801 FOR ATTACHING AERIAL CABLES TO STRUCTURE.

CERMAK PUMPING STATION

RAMP EN

SB I-90/94

DAB3
STA. 7310+33.8
135.3' LT

EX ℄ SB I-90/94

SB I-90/94

RAMP EN

NOTE 2

T80

EX ℄ RAMP WS

CONCRETE BARRIER, SINGLE FACE,
42 INCH HEIGHT

RAMP WS/ES

NOTE 3

3-1/C#2
AERIAL CABLES WITH
MESSENGER WIRE

PROPOSED RETAINING WALL 10
(SN 016-1729)
SEE STRUCTURAL PLANS

PROPOSED NOISE ABATEMENT WALL
SEE STRUCTURAL PLANS

PR ℄ EB TAYLOR EXIT

RAMP WS

RAMP ES

HARRISON STREET

CHAIN LINK FENCE, 12'

PROPOSED 60" COMBINED SEWER
SEE DRAINAGE PLANS

UIC
TENNIS
COURTS

UIC
BASKETBALL
COURTS

SCALE: 1"=20'

E-03

FILE PATH = pw:\61747A-PWINT.aecomonline.local:AECOM.DS02.NA\Documents\01 Americas\Transportation\60269938 Circle\Phase II\000.CAD\016.Electrical\Sheets\62A74_Contract\D162A74-sht-Light-03

AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	D162A74-sht-Light-03	DESIGNED - PFD	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
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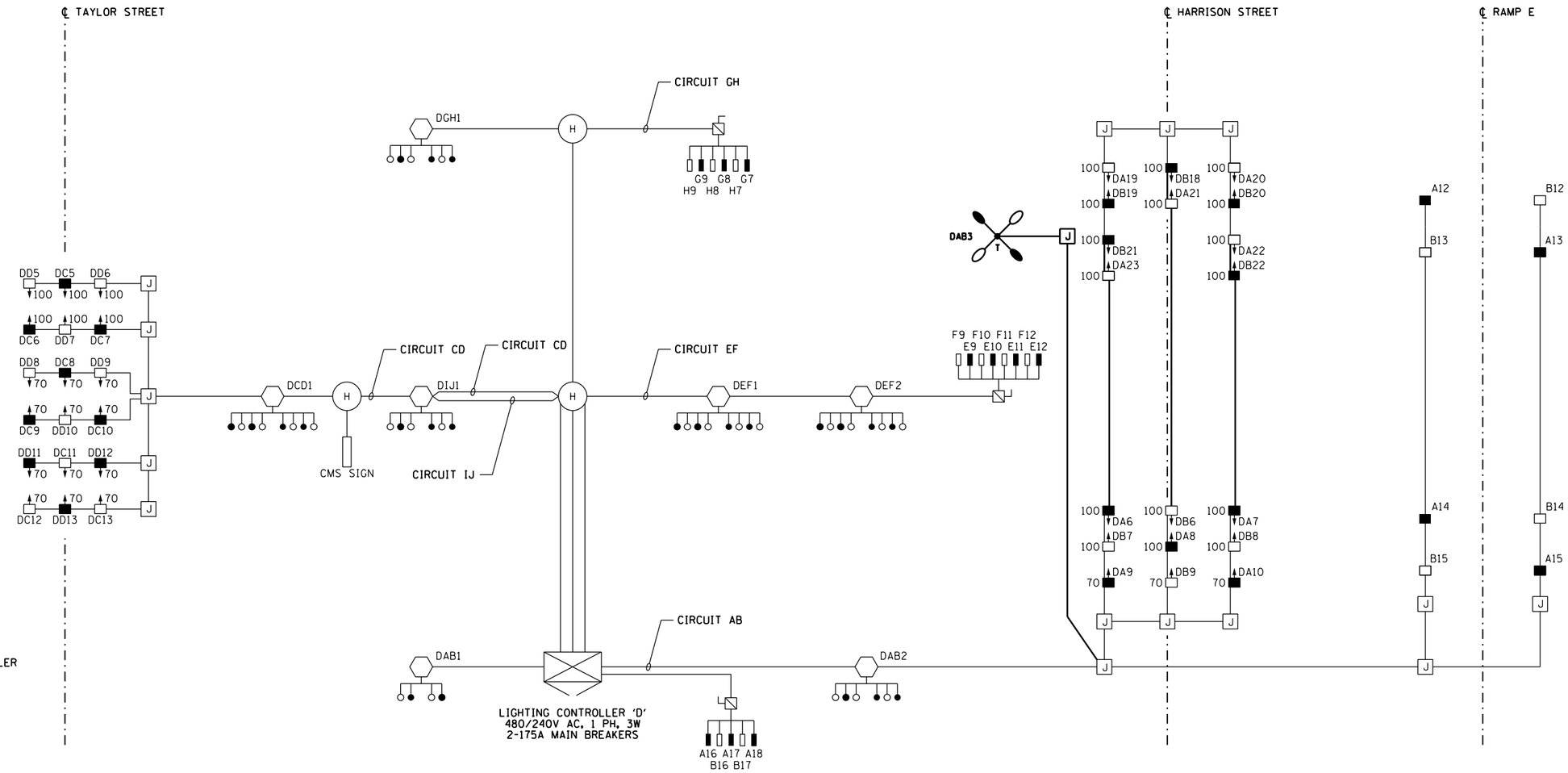
	PLOT SCALE = 40.0000 ' / in.	CHECKED - WDS	REVISED -	
	PLOT DATE = 5/11/2017	DATE - 05/15/2017	REVISED -	

IDOT PROPOSED LIGHTING PLAN

SCALE: 1" = 20' | SHEET 3 OF 14 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	152
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		



SYMBOLS LEGEND

- IDOT LIGHTING CONTROLLER
- H — HANDHOLE
- J — JUNCTION BOX
- HH — HANDHOLE
- CMS SIGN
- UNDERPASS LIGHTING UNIT
  55 WATT HPS LUMINAIRE
  (BLACK PHASE - SOLID SYMBOL
  RED PHASE - OPEN SYMBOL)
- HIGH MAST LIGHT TOWER
  400 WATT HPS LUMINAIRE
  (BLACK PHASE - SOLID SYMBOL
  RED PHASE - OPEN SYMBOL)
- LIGHTED OVERHEAD SIGN STRUCTURE
  WITH 170 WATT FLUORESCENT
  LUMINAIRES, QUANTITY OF
  LUMINAIRES AS REQUIRED
  (BLACK PHASE - SOLID SYMBOL
  RED PHASE - OPEN SYMBOL)
- 100 — UNDERPASS LIGHTING UNIT
  70 OR 100 WATT HPS LUMINAIRE
  (BLACK PHASE - SOLID SYMBOL
  RED PHASE - OPEN SYMBOL)
- T — TEMPORARY LIGHTING UNIT
  WITH 400 WATT HPS LUMINAIRES
  (BLACK PHASE - SOLID SYMBOL
  RED PHASE - OPEN SYMBOL)

LOAD TABLE
LIGHTING CONTROLLER ''D''

CIRCUIT	BLACK PHASE		CIRCUIT	RED PHASE	
	AMPS	WATTS		AMPS	WATTS
A	25.5	6,110	B	24.5	5,887
C	12.0	2,882	D	12.0	2,882
E	17.2	4,128	F	17.2	4,128
G	7.20	1,728	H	7.20	1,728
I	5.7	1,368	J	5.7	1,368
K	-	-	L	-	-
M	-	-	N	-	-
O	-	-	P	-	-
TOTAL	67.6	16,217	TOTAL	66.6	15,994

E-04

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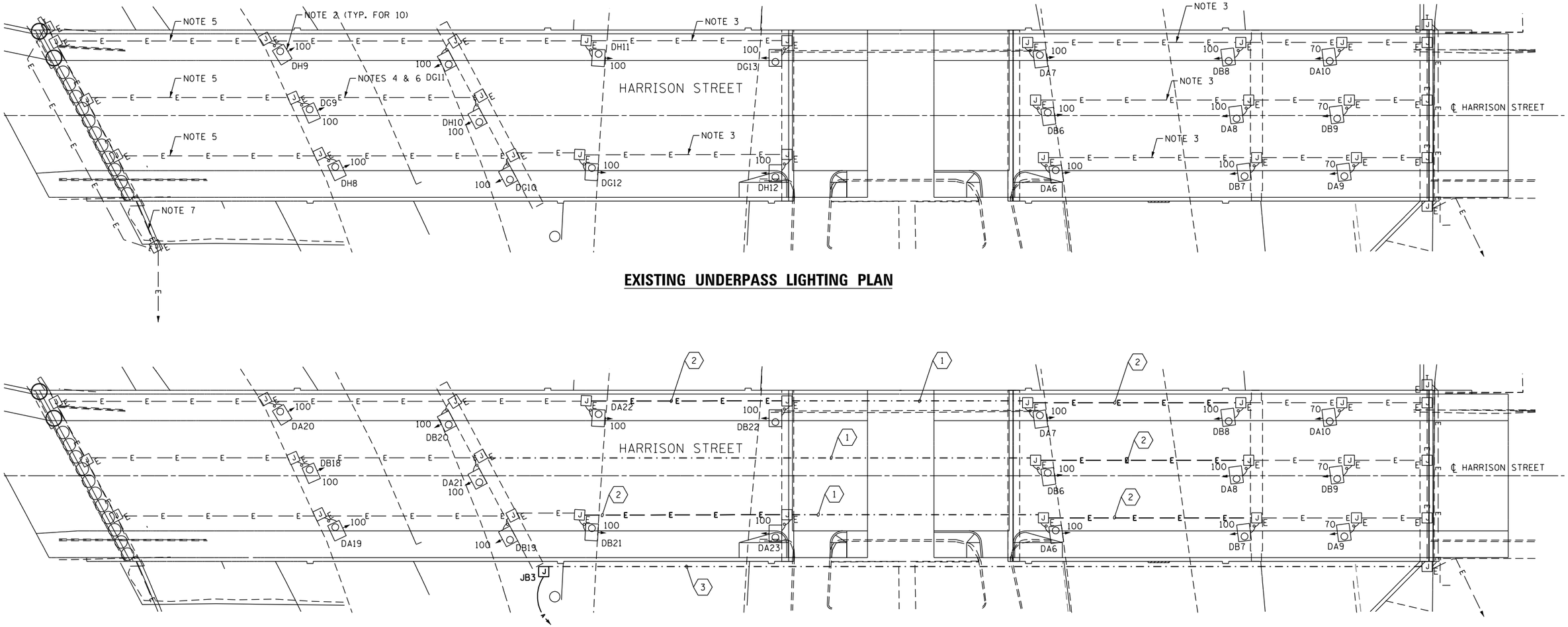
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT LIGHTING CONTROLLER 'D'
WIRING DIAGRAM

SCALE: N.T.S. | SHEET 4 OF 14 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	153
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		



EXISTING UNDERPASS LIGHTING PLAN

PROPOSED UNDERPASS LIGHTING PLAN

SEE DRAWING E-03 FOR A CONTINUATION OF TEMPORARY AERIAL FEED.

NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. REMOVE THE EXISTING LIGHTING DECALS ON THE HARRISON ST. UNDERPASS LIGHTING UNITS FOR CIRCUITS G AND H, AND PROVIDE NEW DECALS TO RENAME THE UNDERPASS LIGHTING UNITS AS SHOWN ON THE PROPOSED DRAWING E-06.
3. REMOVE EXISTING LIGHTING CIRCUIT CABLES FROM THE EXISTING CONDUITS ATTACHED TO STRUCTURE. ROD AND CLEAN EXISTING CONDUITS AS NEEDED TO INSTALL THE PROPOSED LIGHTING CIRCUIT CABLES SHOWN ON THE PROPOSED LIGHTING PLAN ON THIS SHEET.
4. WEST HARRISON ST. UNDERPASS LIGHTING UNITS, ON CIRCUITS G AND H, SHALL BE RECIRCUITED ONTO CIRCUITS A AND B, RESPECTIVELY, FROM LIGHTING CONTROLLER 'D'.
5. REMOVE EXISTING LIGHTING CIRCUIT CABLE FROM THE CONDUIT ATTACHED TO STRUCTURE. EXISTING CONDUITS TO REMAIN AND BE ABANDONED.
6. EXISTING LIGHTING CIRCUIT CABLES TO REMAIN.
7. REMOVE ALL CONDUITS ATTACHED TO STRUCTURE MADE OBSOLETE BY THE RE-FEEDING OF THE UNDERPASS LIGHTING SYSTEM AND THE REMOVAL OF THE JUNCTION BOXES SHOWN ON DRAWING E-02.

JUNCTION BOX SCHEDULE		
NO.	SIZE	DESCRIPTION
JB1	6"X6"X4"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JB2	12"X10"X6"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING
JB3	18"X18"X8"	STAINLESS STEEL, ATTACHED TO STRUCTURE, UNDERPASS LIGHTING

CABLE / CONDUIT SCHEDULE	
1	3-1/C#10, 1-1/C#10 GND IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
2	3-1/C#10, 1-1/C#10 GND IN EXISTING 1" DIA PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)
3	3-1/C#2, 1-1/C#4 GND XLP TYPE USE CABLES IN A 3" DIA. PVCC RGC ATTACHED TO STRUCTURE (CKTS AS INDICATED ON THIS DRAWING)

N

GRAPHIC SCALE
0 20 40
FEET

E-05

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HARRISON STREET UNDERPASS LIGHTING PLAN

SCALE: 1"=20' | SHEET 5 OF 14 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	154
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. THE EXISTING UIC LIGHTING UNIT SHALL BE REMOVED, STORED, AND RE-ERECTED ON NEW FOUNDATIONS. THE EXISTING FOUNDATIONS SHALL BE BROKEN DOWN AND DISPOSED OF PROPERLY. THIS WORK SHALL BE PAID FOR UNDER THE "REMOVAL OF POLE FOUNDATION" PAY ITEM.
3. REMOVE THE EXISTING CABLES FROM THE CONDUIT AND THEN ROD AND CLEAN THE CONDUIT BEFORE PULLING NEW LIGHTING CABLES. THIS WORK SHALL BE PAID FOR UNDER THE "REMOVE EXISTING CABLE" AND "ROD AND CLEAN EXISTING CONDUIT" PAY ITEMS.

SB I-90/94
RAMP EN
RAMP WS
RAMP ES
HARRISON STREET
EX ℄ SB I-90/94
EX ℄ RAMP WS
RAMP WS/ES
MATCH LINE STA 7313+50.00
SEE SHEET NO.156
NOTE 3
NOTE 2
(TYP. FOR 3)
UIC TENNIS COURTS
UIC BASKETBALL COURTS
RR
SCALE: 1"=20'
E-06

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	PLOT DATE = 5/11/2017	DATE - 05/15/2017	REVISED -	

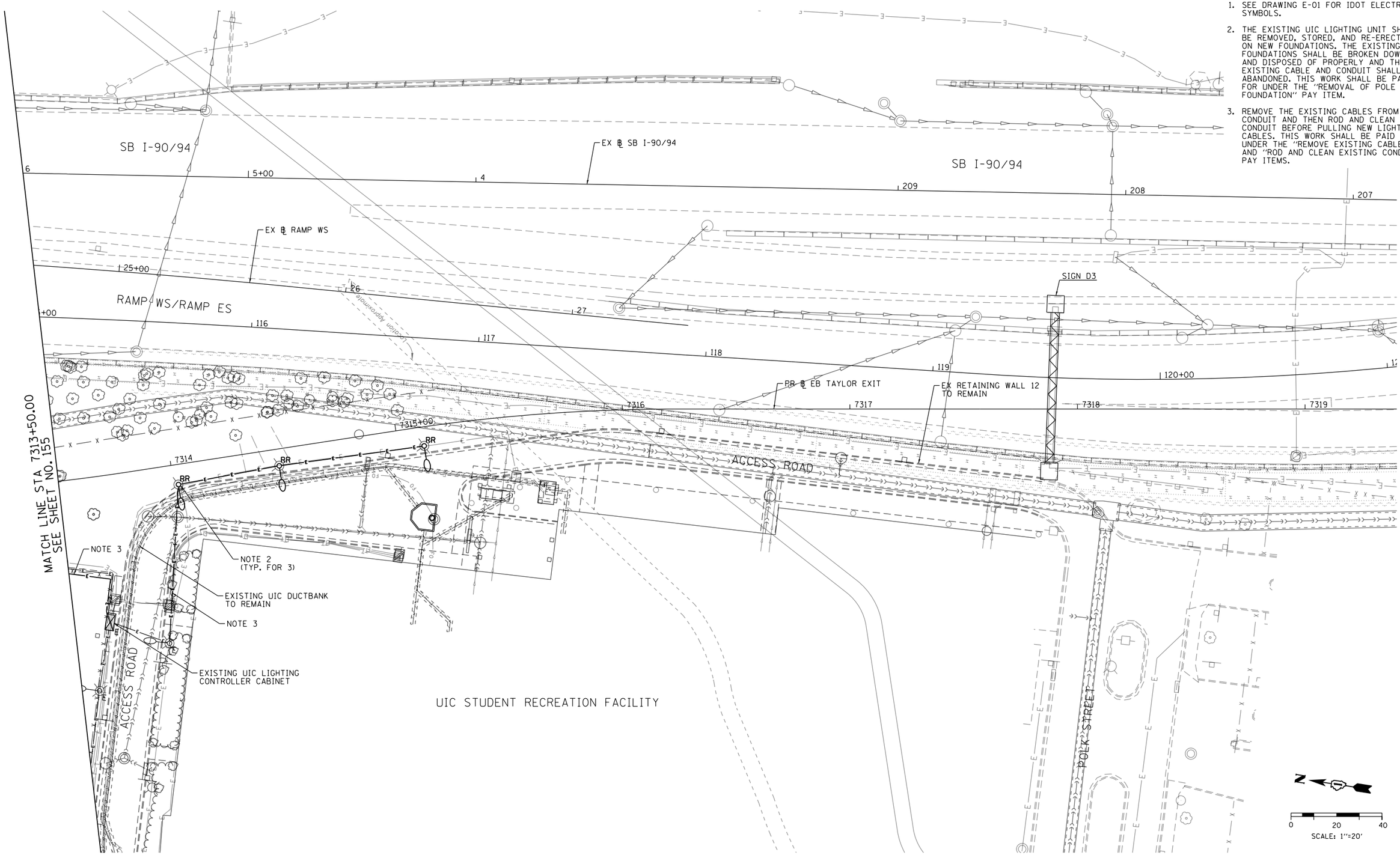
UIC EXISTING/DEMOLITION LIGHTING PLAN

SCALE: 1" = 20' | SHEET 6 OF 14 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	155
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. THE EXISTING UIC LIGHTING UNIT SHALL BE REMOVED, STORED, AND RE-ERECTED ON NEW FOUNDATIONS. THE EXISTING FOUNDATIONS SHALL BE BROKEN DOWN AND DISPOSED OF PROPERLY AND THE EXISTING CABLE AND CONDUIT SHALL BE ABANDONED. THIS WORK SHALL BE PAID FOR UNDER THE "REMOVAL OF POLE FOUNDATION" PAY ITEM.
3. REMOVE THE EXISTING CABLES FROM THE CONDUIT AND THEN ROD AND CLEAN THE CONDUIT BEFORE PULLING NEW LIGHTING CABLES. THIS WORK SHALL BE PAID FOR UNDER THE "REMOVE EXISTING CABLE" AND "ROD AND CLEAN EXISTING CONDUIT" PAY ITEMS.



E-07

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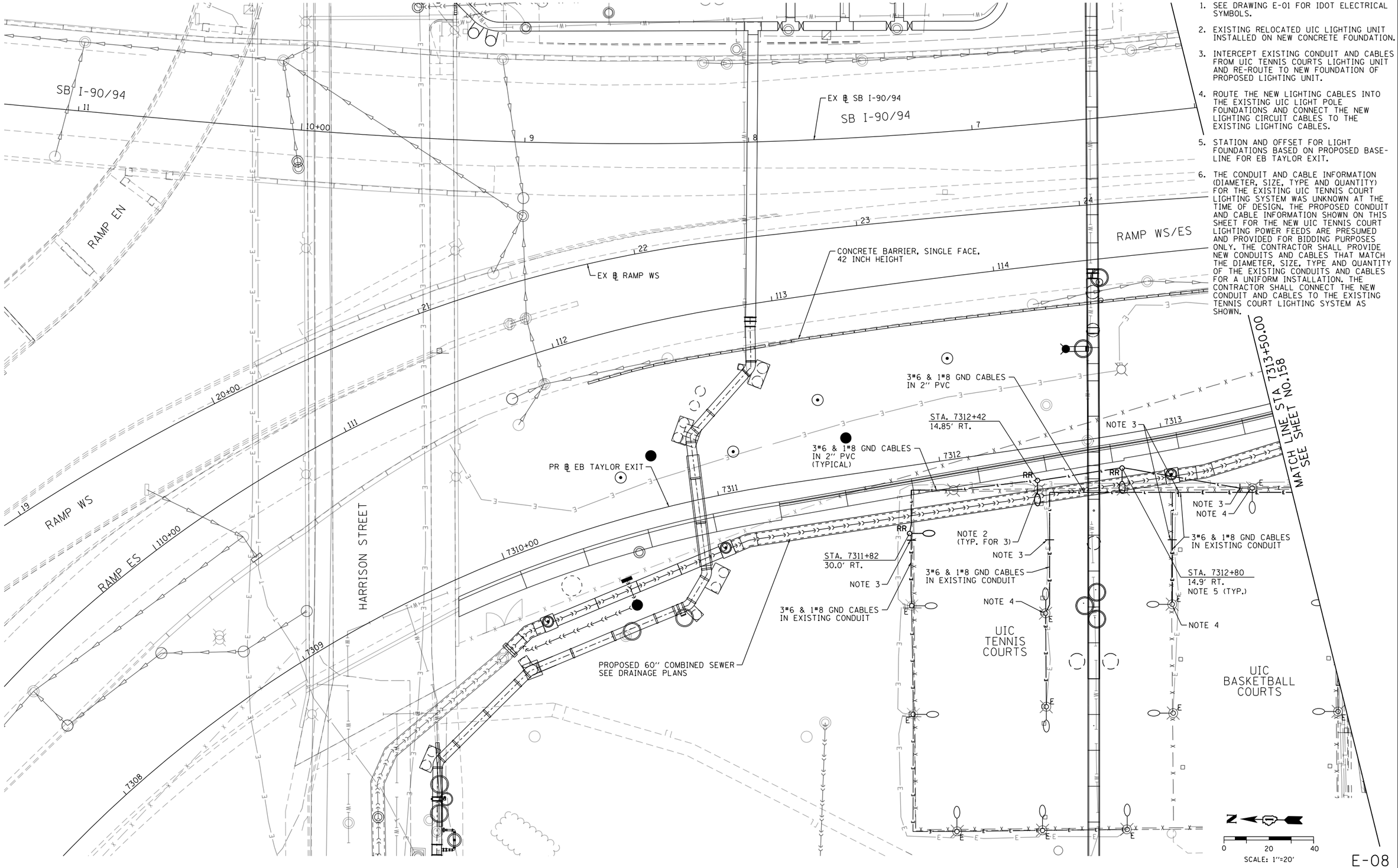
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

UIC EXISTING/DEMOLITION LIGHTING PLAN

SCALE: 1" = 20' | SHEET 7 OF 14 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	156
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. EXISTING RELOCATED UIC LIGHTING UNIT INSTALLED ON NEW CONCRETE FOUNDATION.
3. INTERCEPT EXISTING CONDUIT AND CABLES FROM UIC TENNIS COURTS LIGHTING UNIT AND RE-ROUTE TO NEW FOUNDATION OF PROPOSED LIGHTING UNIT.
4. ROUTE THE NEW LIGHTING CABLES INTO THE EXISTING UIC LIGHT POLE FOUNDATIONS AND CONNECT THE NEW LIGHTING CIRCUIT CABLES TO THE EXISTING LIGHTING CABLES.
5. STATION AND OFFSET FOR LIGHT FOUNDATIONS BASED ON PROPOSED BASE-LINE FOR EB TAYLOR EXIT.
6. THE CONDUIT AND CABLE INFORMATION (DIAMETER, SIZE, TYPE AND QUANTITY) FOR THE EXISTING UIC TENNIS COURT LIGHTING SYSTEM WAS UNKNOWN AT THE TIME OF DESIGN. THE PROPOSED CONDUIT AND CABLE INFORMATION SHOWN ON THIS SHEET FOR THE NEW UIC TENNIS COURT LIGHTING POWER FEEDS ARE PRESUMED AND PROVIDED FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL PROVIDE NEW CONDUITS AND CABLES THAT MATCH THE DIAMETER, SIZE, TYPE AND QUANTITY OF THE EXISTING CONDUITS AND CABLES FOR A UNIFORM INSTALLATION. THE CONTRACTOR SHALL CONNECT THE NEW CONDUIT AND CABLES TO THE EXISTING TENNIS COURT LIGHTING SYSTEM AS SHOWN.

E-08

AECOM
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CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-sht-Light-08	DESIGNED - PFD	REVISED -	
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PLOT SCALE = 40.0000 ' / in.	CHECKED - WDS	REVISED -	
PLOT DATE = 5/11/2017	DATE - 05/15/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

UIC PROPOSED LIGHTING PLAN

SCALE: 1" = 20' | SHEET 8 OF 14 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	157
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		

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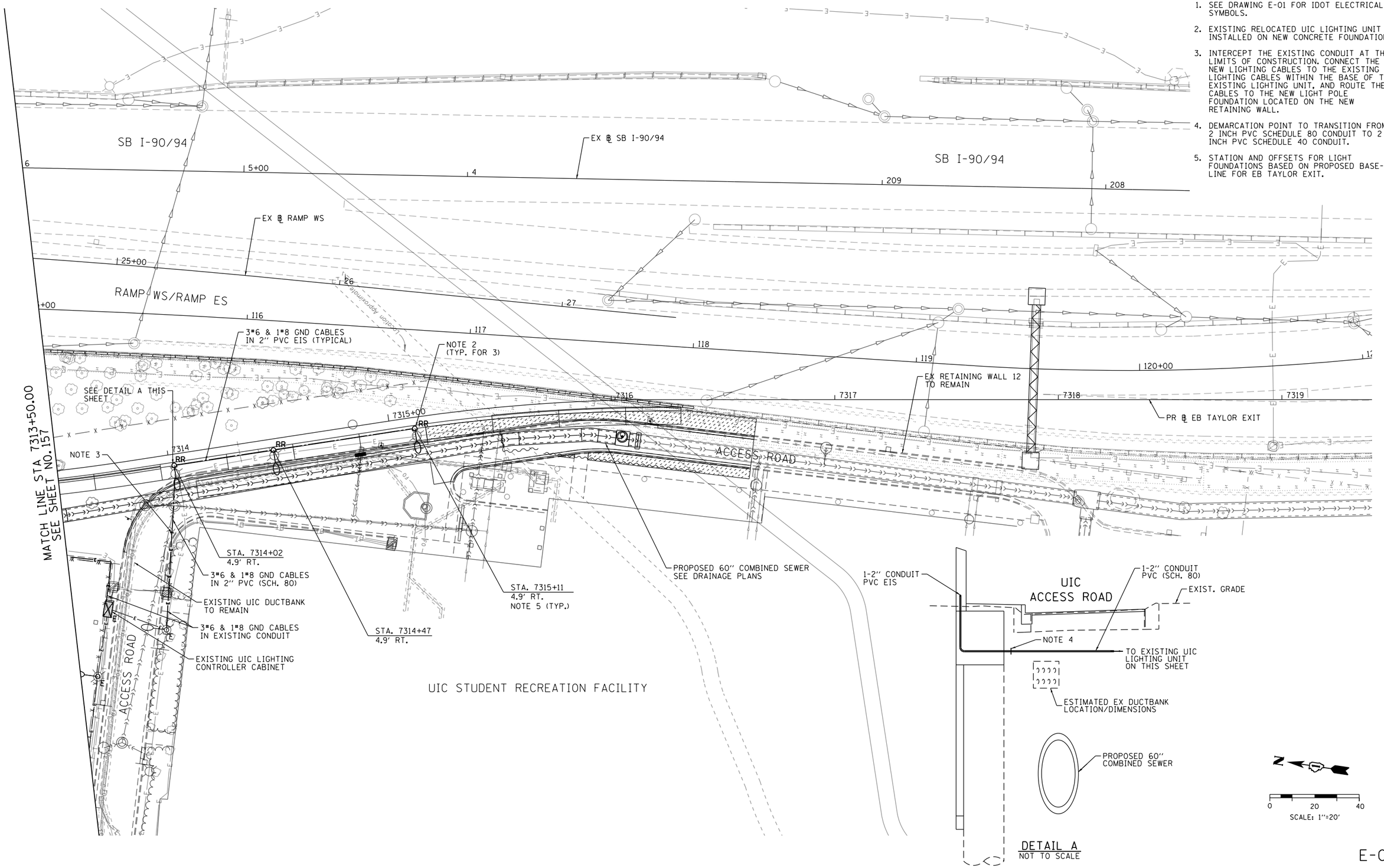
NOTES:

1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
2. EXISTING RELOCATED UIC LIGHTING UNIT INSTALLED ON NEW CONCRETE FOUNDATION.
3. INTERCEPT THE EXISTING CONDUIT AT THE LIMITS OF CONSTRUCTION. CONNECT THE NEW LIGHTING CABLES TO THE EXISTING LIGHTING CABLES WITHIN THE BASE OF THE EXISTING LIGHTING UNIT, AND ROUTE THE CABLES TO THE NEW LIGHT POLE FOUNDATION LOCATED ON THE NEW RETAINING WALL.
4. DEMARCATION POINT TO TRANSITION FROM 2 INCH PVC SCHEDULE 80 CONDUIT TO 2 INCH PVC SCHEDULE 40 CONDUIT.
5. STATION AND OFFSETS FOR LIGHT FOUNDATIONS BASED ON PROPOSED BASE-LINE FOR EB TAYLOR EXIT.



E-09

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-sht-Light-09	DESIGNED - PFD	REVISED -	
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PLOT DATE = 5/11/2017	DATE - 05/15/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

UIC PROPOSED LIGHTING PLAN

SCALE: 1" = 20' | SHEET 9 OF 14 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	158
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

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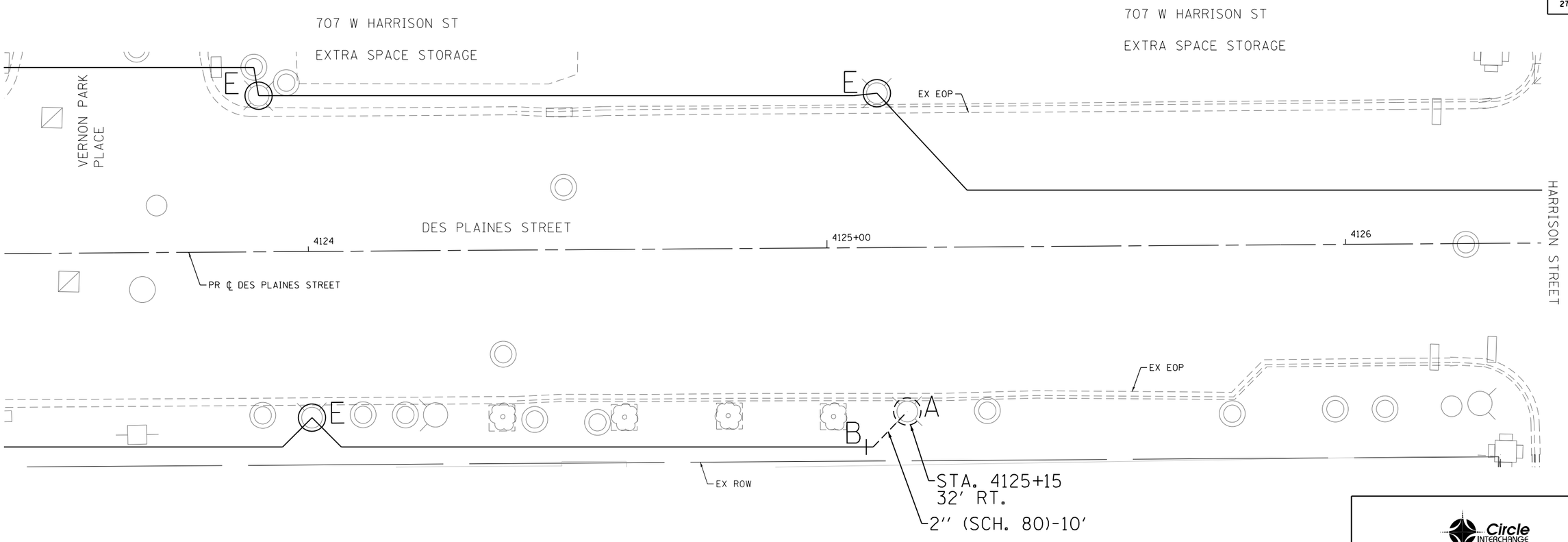
TOTAL SHEETS	SHEET NO.
275	159



''A''	PROVIDE 24''x7', 1-1/4'' A.R., 15'' B.C. FOUNDATION FOR LIGHT POLE PER DWG. NO. 818.
''B''	INTERCEPT EXISTING CONDUIT.
''E''	EXISTING TO REMAIN

NOTES:

1. SEE DRAWING E-13 FOR CDOT ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. ALL STATIONS AND OFFSETS ARE BASED ON THE PROPOSED DES PLAINES STREET BASELINE.

N

0 10 20

SCALE: 1''=10'

Circle INTERCHANGE

DATE	REVISION

CITY OF CHICAGO

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING

CONSULTANT:
AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

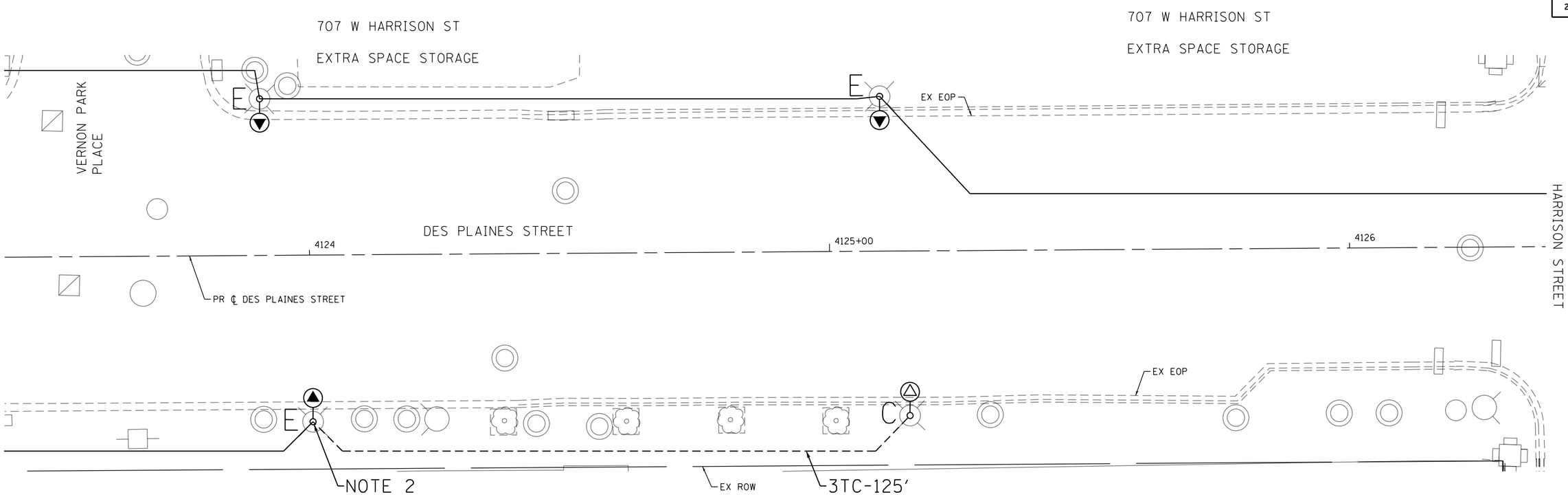
WORK ORDER NO. _____ DATE _____
COST ALLOCATION ACCOUNT _____
APPROPRIATION ACCOUNT { MATERIAL _____ LABOR _____

DES PLAINES STREET CONDUIT AND FOUNDATION PLAN

CITY OF CHICAGO
DEPT. OF TRANSPORTATION
DIVISION OF ELECTRICAL OPERATIONS

DRAFTSMAN: CAM	CHIEF DRAFTSMAN:	ENGINEER: PFD
SUPERVISING ENGINEER: WDS	ELEC. DESIGN ENGR.	E-10
ENGINEER OF ELECTRICITY:		
GEN'L SUPT. OF ELECTRICITY:		
DEPUTY COMMISSIONER:		
SIZE: 22'' | 34''	SCALE: 1'' = 20'	DATE: 05/15/2017
DATE: 05/15/2017		DWG. NO.: 10 OF 14
C.D.O.T. PROJECT NO.:		

TOTAL SHEETS	SHEET NO.
275	160

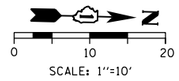


''C'' RE-ERECT EXISTING LIGHTING UNIT ON A NEW FOUNDATION

''E'' EXISTING TO REMAIN

NOTES:

1. SEE DRAWING E-13 FOR CDOT ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. CONNECT THE PROPOSED TRIPLEX CABLES TO THE EXISTING CABLES WITHIN THE BASE OF THE EXISTING LIGHT POLE.



SCALE: 1''=10'

Circle INTERCHANGE

DATE	REVISION

CITY OF CHICAGO

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING

CONSULTANT:
AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

WORK ORDER NO. _____ DATE _____

COST ALLOCATION ACCOUNT _____

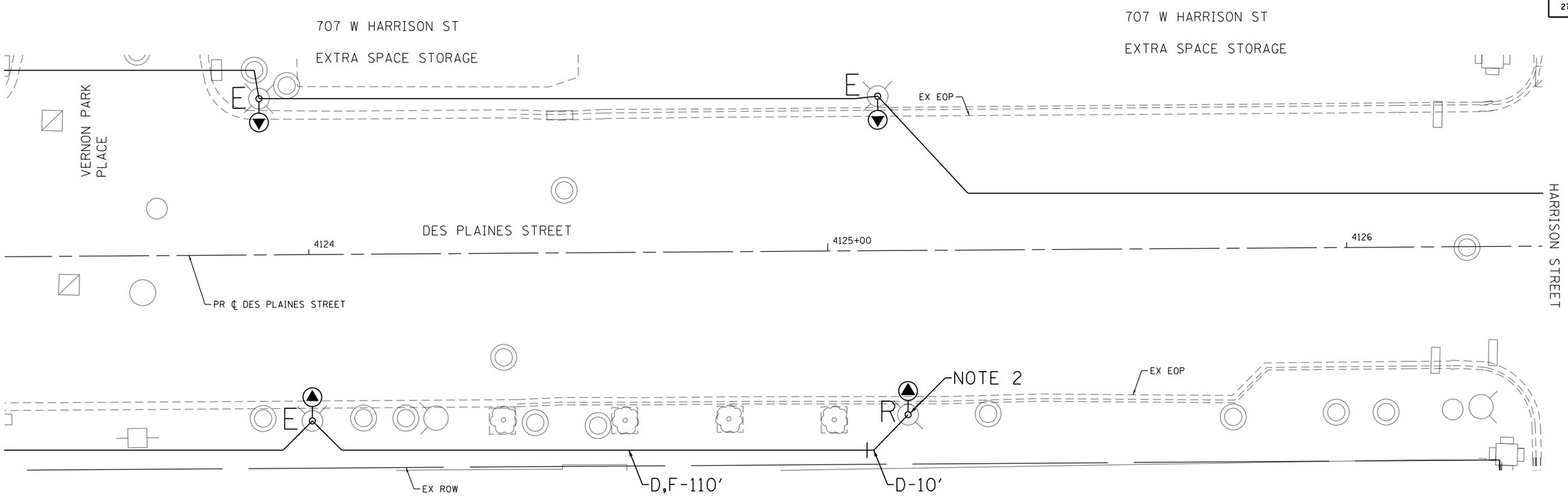
APPROPRIATION ACCOUNT { MATERIAL _____ LABOR _____

DES PLAINES STREET CABLE AND EQUIPMENT INSTALLATION PLAN

CITY OF CHICAGO
DEPT. OF TRANSPORTATION
DIVISION OF ELECTRICAL OPERATIONS

DRAFTSMAN: CAM	CHIEF DRAFTSMAN:	ENGINEER: PFD	
SUPERVISING ENGINEER: WDS	ELEC. DESIGN ENGR.		
ENGINEER OF ELECTRICITY:			E-11
GEN'L SUPT. OF ELECTRICITY:			
DEPUTY COMMISSIONER:			
SIZE: 22'' | 34''	SCALE: 1'' = 20'	DATE: 05/15/2017	
DATE: 05/15/2017		DWG. NO.: 11 OF 14	
C.D.O.T. PROJECT NO.:			

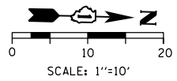
TOTAL SHEETS	SHEET NO.
275	161



"D"	REMOVE EXISTING LIGHTING CABLES IN CONDUIT
"F"	ROD AND CLEAN CONDUIT
"E"	EXISTING TO REMAIN
"R"	REMOVE EXISTING ALUMINUM POLE, LUMINIARE AND MAST ARM. BREAK DOWN FOUNDATION COMPLETELY.

NOTES:

1. SEE DRAWING E-13 FOR CDOT ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. THE EXISTING LIGHTING UNIT SHALL BE REMOVED, STORED, AND RE-ERECTED ON A NEW FOUNDATION. THE EXISTING FOUNDATION SHALL BE BROKEN DOWN AND DISPOSED OF PROPERLY.



SCALE: 1"=10'

Circle INTERCHANGE

DATE	REVISION

CITY OF CHICAGO

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING

CONSULTANT:
AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

WORK ORDER NO. _____ DATE _____
COST ALLOCATION ACCOUNT _____
APPROPRIATION ACCOUNT { MATERIAL _____ LABOR _____

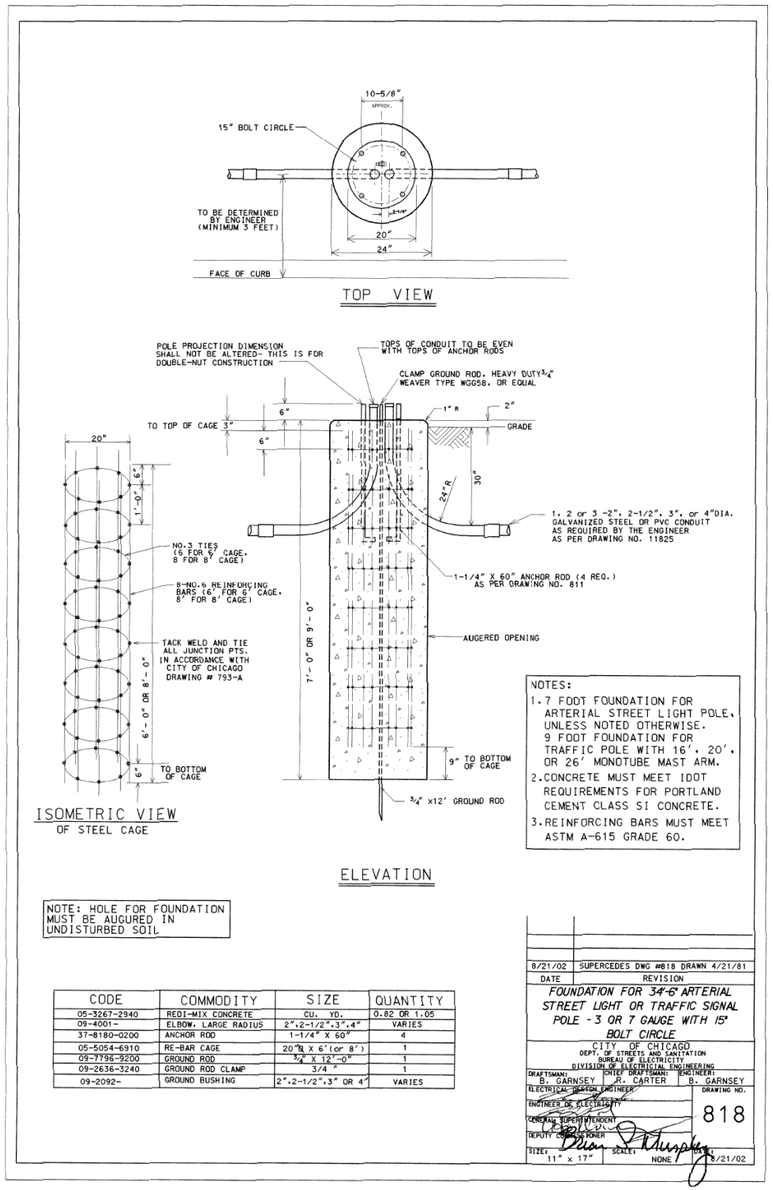
DES PLAINES STREET LIGHTING REMOVAL PLAN

CITY OF CHICAGO
DEPT. OF TRANSPORTATION
DIVISION OF ELECTRICAL OPERATIONS

DRAFTSMAN:	CHIEF DRAFTSMAN:	ENGINEER:
CAM		PFD
SUPERVISING ENGINEER: WDS	ELEC. DESIGN ENGR.	
ENGINEER OF ELECTRICITY:		
GEN'L SUPT. OF ELECTRICITY:		
DEPUTY COMMISSIONER:		

E-12

SIZE: 22" | 34"	SCALE: 1" = 20'	DATE: 05/15/2017
DATE: 05/15/2017		DWG. NO.: 12 OF 14
C.D.O.T. PROJECT NO.:		



NOTES:
1. 7 FOOT FOUNDATION FOR ARTERIAL STREET LIGHT POLE, UNLESS NOTED OTHERWISE. 9 FOOT FOUNDATION FOR TRAFFIC POLE WITH 16', 20', OR 26' MONOTUBE MAST ARM.
2. CONCRETE MUST MEET IDOT REQUIREMENTS FOR PORTLAND CEMENT CLASS SI CONCRETE.
3. REINFORCING BARS MUST MEET ASTM A-615 GRADE 60.

NOTE: HOLE FOR FOUNDATION MUST BE AUGURED IN UNDISTURBED SOIL

CODE	COMMODITY	SIZE	QUANTITY
05-3267-2940	REDI-MIX CONCRETE	CU. YD.	0.82 OR 1.05
09-4001-	ELBOW, LARGE RADIUS	2",2-1/2",3",4"	VARIES
37-8180-0200	ANCHOR ROD	1-1/4" X 60"	4
05-5054-6910	RE-BAR CAGE	20"Ø X 6'(or 8')	1
09-7796-9200	GROUND ROD	3/4" X 12'-0"	1
09-2636-3240	GROUND ROD CLAMP	3/4 "	1
09-2092-	GROUND BUSHING	2",2-1/2",3" OR 4"	VARIES

8/21/02	SUPERCEDES DWG #818 DRAWN 4/21/81
DATE	REVISION

FOUNDATION FOR 34'-6" ARTERIAL STREET LIGHT OR TRAFFIC SIGNAL POLE - 3 OR 7 GAUGE WITH 15" BOLT CIRCLE

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF TRAFFIC ENGINEERING

DRAFTSMAN:	DITEF DRAFTSMAN:	ENGINEER:
S. GARNSEY JR.	R. CARTER	B. GARNSEY

ELECTRICAL OPERATION ENGINEER
ENGINEER OF ELECTRICITY
GENERAL SUPERINTENDENT
DEPUTY COMMISSIONER

DRAWING NO. 818

SIZE: 11" x 17" SCALE: NONE DATE: 8/21/02

PROPOSED PRESENT

- SIGNAL, TRAFFIC 3 SECTION 1-WAY ADJUSTABLE, 12" OR AS NOTED
- SIGNAL, TRAFFIC 3 SECTION 2-WAY ADJUSTABLE, 12" OR AS NOTED
- SIGNAL OPTICALLY PROGRAMMED
- SIGNAL, PEDESTRIAN, DON'T WALK/WALK
- SIGNAL FACE ARROW, 12" COLOR AS NOTED
- SIGNAL FACE, 1 SECTION YELLOW/GREEN ARROW DUAL INDICATION
- PUSH BUTTON, PEDESTRIAN
- SIGN, ILLUMINATED, MESSAGE OR SYMBOL AS INDICATED
- MAST ARM, TRUSS, ALUMINUM, SIZE AS INDICATED (SEE DWG. #870)
- MAST ARM, TUBULAR, STEEL, SIZE AS INDICATED (SEE DWG. #870)
- DETECTOR LOOP IN PAVEMENT
- CONDUIT OR P.V.C., NUMBER&SIZE & TYPE, (AS NOTED)
- CONDUIT OR P.V.C. ENCASED IN CONCRETE. (SECTION or NUMBER OF CONDUIT INDICATED
- LUMINAIRE, H.P.S.V. 400W LAMP, 240V, CUTOFF
- LUMINAIRE, H.P.S.V. 310W LAMP, 240V
- LUMINAIRE, H.P.S.V. 310W LAMP 240V, CUTOFF
- LUMINAIRE, H.P.S.V. 150W LAMP, 240V
- LUMINAIRE, H.P.S.V. 150W LAMP, 120V
- LUMINAIRE, H.P.S.V. 250W LAMP, 120V, (ALLEY LIGHT)
- LUMINAIRE, H.P.S.V. 250W LAMP, 120V
- TERMINAL CABINET F.A. & P.C.
- FIRE ALARM BOX, WALL MOUNTED
- FIRE ALARM BOX, POLE MOUNTED
- CABLE, TRAFFIC SIGNAL, COMMUNICATION, 1-PAIR #14 SHIELDED, IN CONDUIT
- CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C- #4, 600 V. EPR. IN CONDUIT
- CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2 1/C-#2 or #1/0 600V. EPR IN CONDUIT
- CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C-#10 or #6, 600V NSR1, IN CONDUIT
- CABLE, TRAFFIC SIGNAL, 7/C-#12 or #14, 600V. EPR IN CONDUIT
- CABLE, TRAFFIC SIGNAL, 14/C-#12 600V. EPR IN CONDUIT
- CABLE, TRAFFIC SIGNAL, 19/C-#12 or #14, 600V. EPR IN CONDUIT
- CABLE, STREET LIGHT, 2 1/C-#6, 600V, RHS IN PARKWAY
- CABLE, STREET LIGHT, 2 1/C-#6, 600V, RHS IN CONDUIT
- CABLE, STREET LIGHT, 3 1/C-#1/0, or #2/0, or #4, 600V. EPR TRIPLEXED, IN CONDUIT
- WIRE, STREET LIGHT, 2 1/C-#6, HDNS. AERIAL
- WIRE, STREET LIGHT, 2 1/C-#6 & 1 1/C #6 HDNS. AERIAL
- CABLE, STREET LIGHT AERIAL, 3 1/C-#4 or #2 SELF SUPPORTING. 600V EPR
- WIRE, F.A. & P.C. AERIAL, 1/C-#10, NUMERAL DENOTES QUANTITY
- CABLE, F.A. & P.C. AERIAL, w/ MESSENGER #19-1/NUMBER OF PAIRS AS INDICATED
- CABLE, F.A. & P.C. AERIAL, w/ MESSENGER #19-1/NUMBER OF PAIRS AS INDICATED
- CABLE, F.A. & P.C., IN CONDUIT, #19-1/NUMBER OF PAIRS AS INDICATED
- DOWNLIGHT ASSEMBLY, (ONG. #850)
- LIGHT, TRAFFIC SAFETY ISLAND
- FLASHING BEACON & DOWNLIGHT

ORNAMENTAL LUMINAIRES

PROPOSED	EXISTING		
		310M PENDANT	(240V)
		400M PENDANT	(240V)
		250M PENDANT	(240V)
		150M ACORN	(120V)
		150M ACORN	(240V)
		50M ACORN	(240V)
		100M ACORN	(240V)
		150M GLOBE	(240V)
		100M GLOBE	(240V)
		50M GLOBE	(240V)

C	04-01-02	REVISED/REDRAW R.POOL/B.J.
B	12-4-01	ADDED ORNAMENTAL SYMBOLS
A	8-6-96	REDRAWN
	DATE	REVISION

STANDARD CODE FOR TRAFFIC SIGNALS/ STREET LIGHTING

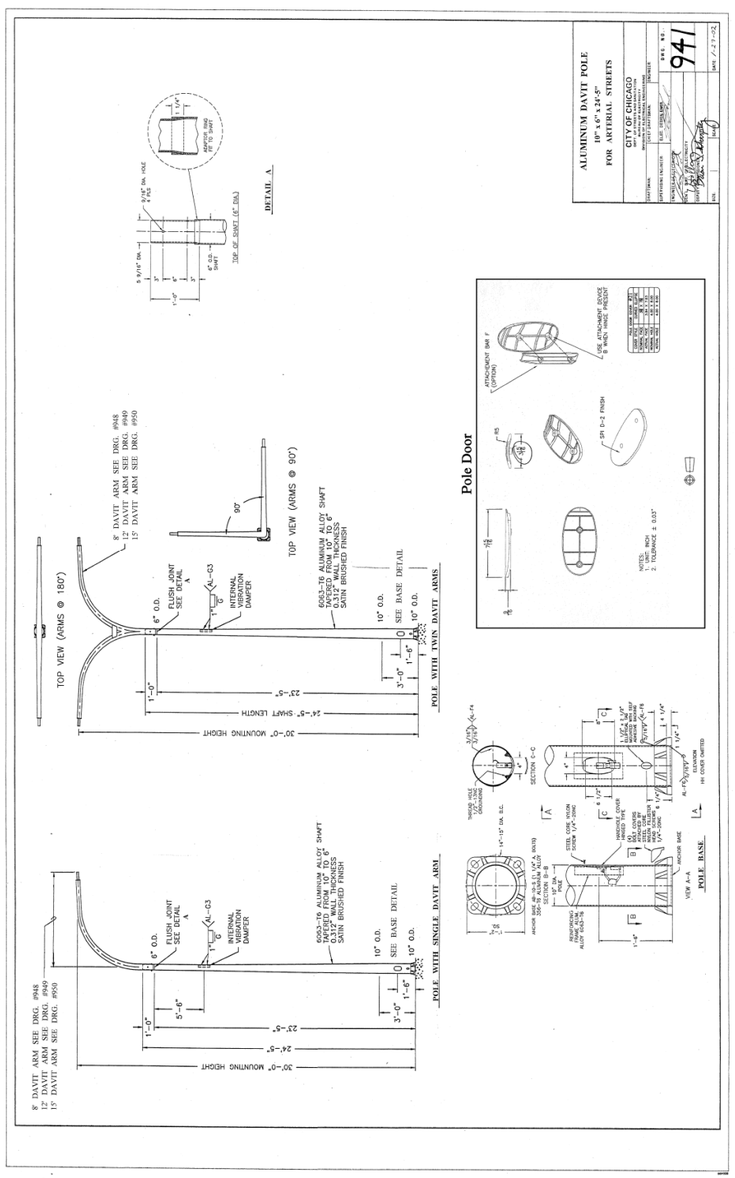
CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY

DRAFTSMAN:	DITEF DRAFTSMAN:	ENGINEER:
R. LYY	R. CARTER	R. POOL/B/C/M.T.

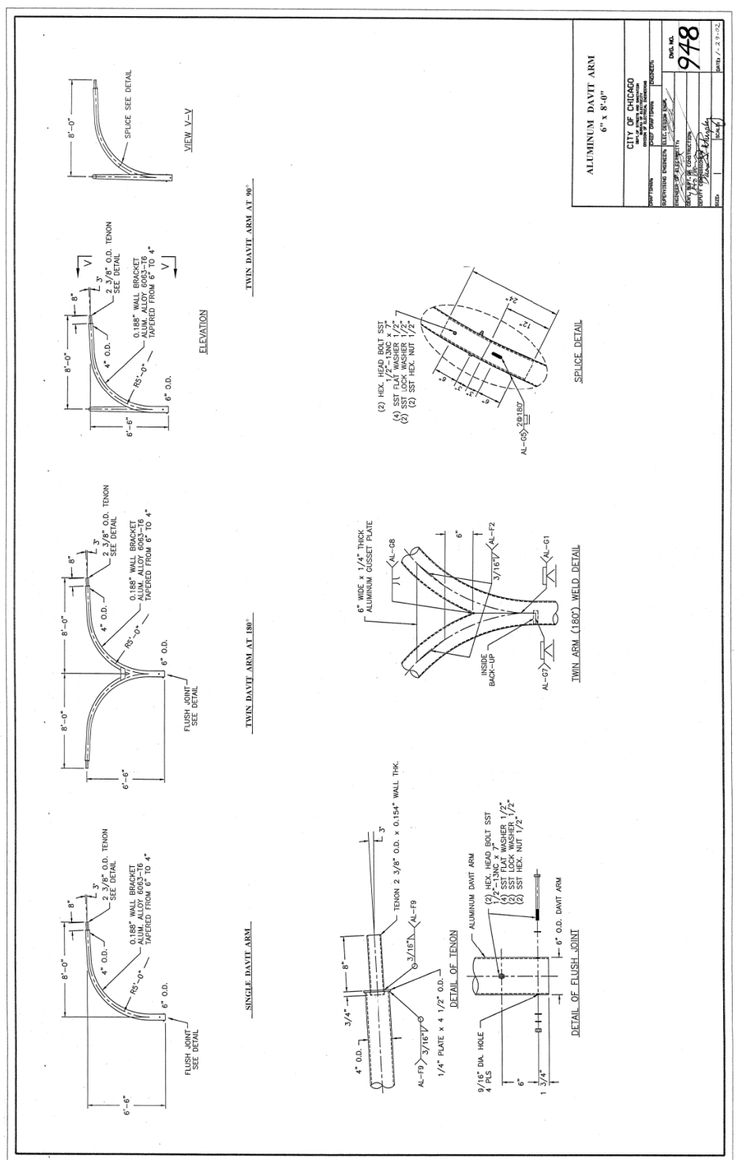
ENGINEER OF ELECTRICITY
GENERAL SUPERINTENDENT
DEPUTY COMMISSIONER

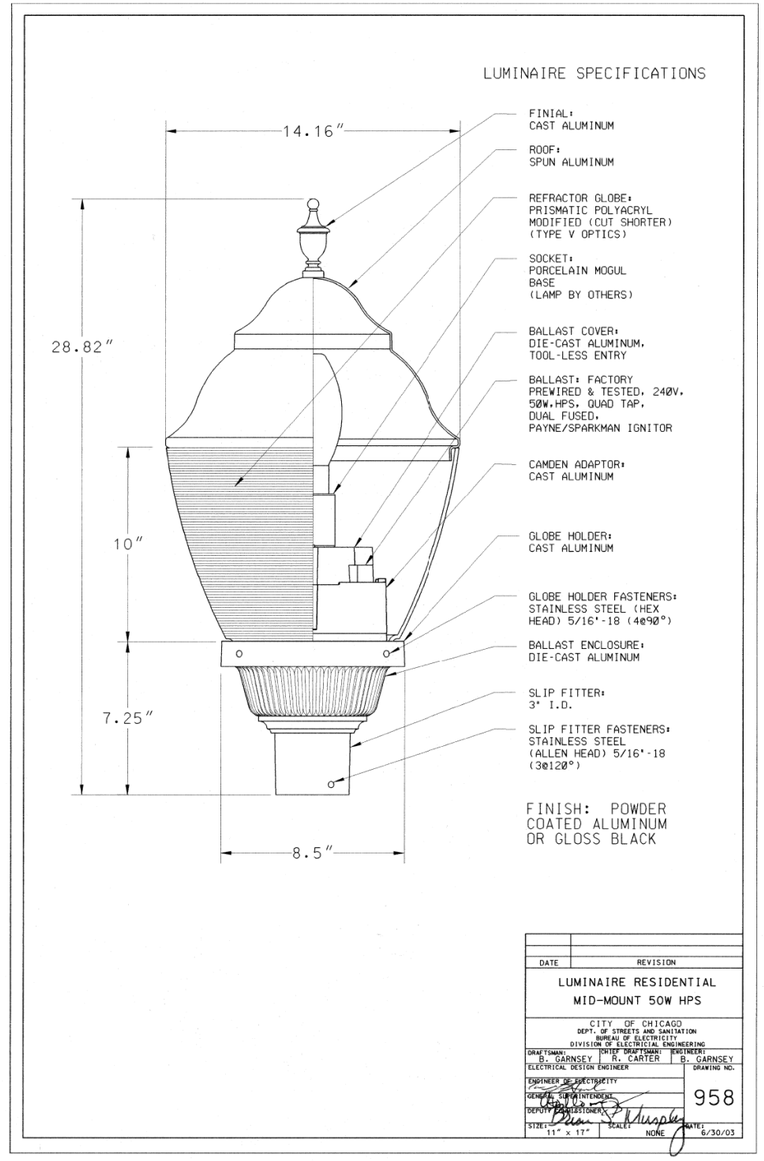
DWG. NO. 826

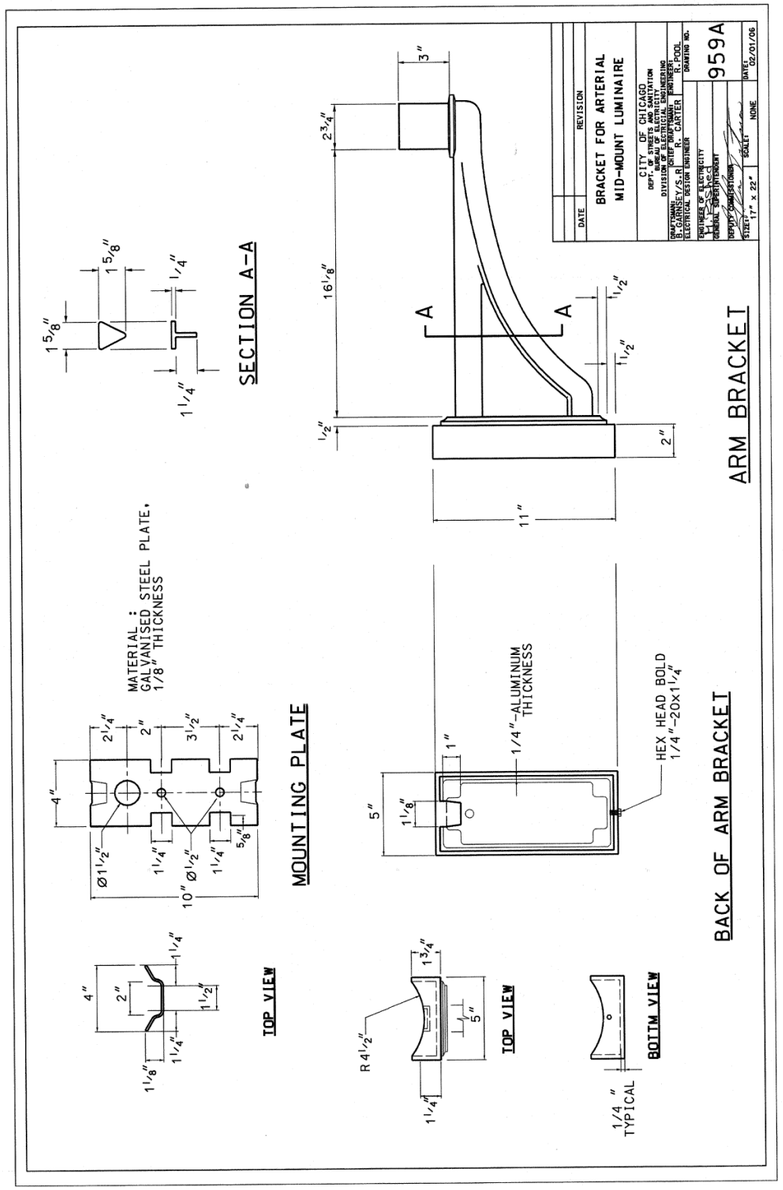
SIZE: 22"x 36" SCALE: NONE DATE: 8/21/02



E-13







E-14

FILE PATH = p:\61749-PWINT.aecomonline.local\AECOM.DS02.NA\Documents\01 Americas\Transportation\60269938 Circle\Phase II\000 CAD\016.Electrical\Sheets\62A74_Contract\D162A74-sht-Light-14

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-sht-Light-14	DESIGNED - PFD	REVISED -	
USER NAME = myersc	DRAWN - CAM	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED - WDS	REVISED -	
PLOT DATE = 5/11/2017	DATE - 05/15/2017	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CDOT DETAILS

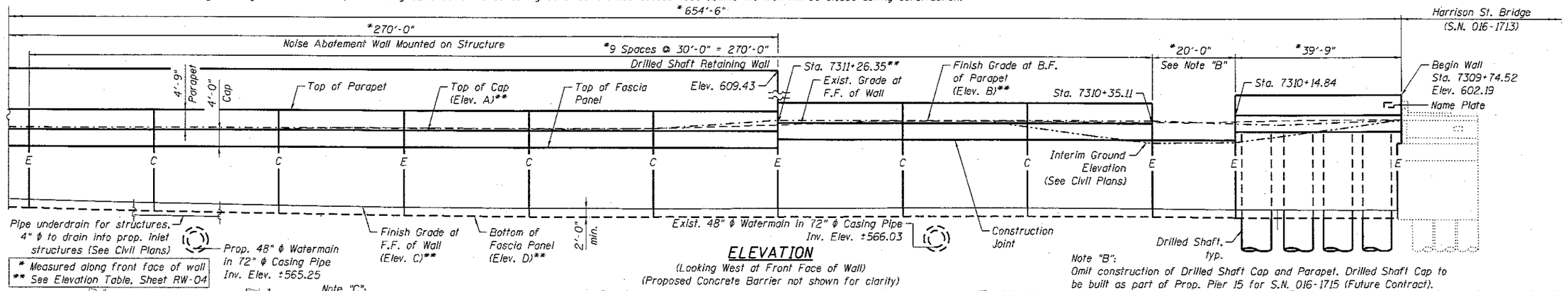
SCALE: N.T.S. | SHEET 14 OF 14 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	163
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

Bench Mark: Set "X" on westerly jaywall of accident investigation site ±35' north of east 90/94 sign, Elevation 579.45.

Traffic Control: Traffic will be maintained along existing East-South Ramp and along SB I-90/04 lanes during Construction. UIC access road behind the wall will be closed during construction.

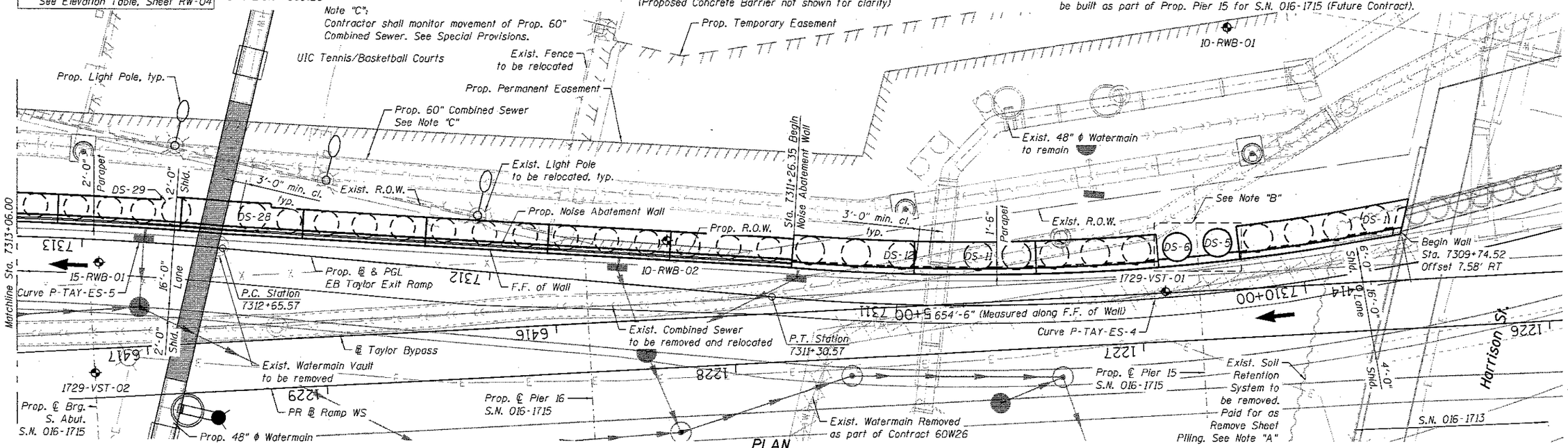
Existing Structure: Exist. Cast-In-Place Ret. Wall was built in 1987 under F.A.I. Route 90/94, Section 2526.6-IP-R-3, 2626.2-28-DM & 0101.6-IP-R(85). Total length of wall is approx. 914'-5" and supported on steel H-piles. Wall height varies with max. height of approx. 21'-0". Steel sheet piling used during wall construction was cut-off at top of wall footing elev. and left in the ground.



ELEVATION

(Looking West at Front Face of Wall)
(Proposed Concrete Barrier not shown for clarity)

Note "B":
Omit construction of Drilled Shaft Cap and Parapet. Drilled Shaft Cap to be built as part of Prop. Pier 15 for S.N. 016-1715 (Future Contract).



PLAN

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 & 2016 Interims

NOISE WALL WIND LOADING

35 psf (Structure Mounted)

DESIGN STRESSES

FIELD UNITS

f'_c = 7,000 psi (Drilled Shafts)
f'_c = 3,500 psi (All other concrete)
f_y = 60,000 psi (Reinforcement)
f_y = 35,000 psi (Permanent Casing)

NOTES:

1. See Civil Plans for further information on Exist. Fence, Exist. Combined Sewer, Exist. Watermain Vault and Exist. Light Poles.

LEGEND:

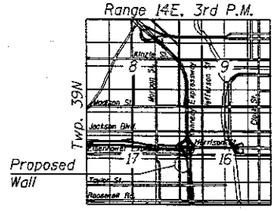
Front Face	F.F.	Boring Log/Soil Test	◆
Back Face	B.F.	Light Pole	☼
Combined Sewer	—C—	Exist. Electric Cable	—E—
Exist. Storm Sewer	—▷—	Prop. Lighting Cable	—L—
Prop. Storm Sewer	—▶—	Fiber Optic	—FO—
Water Line	—W—	Exist. Fence	— x — x —
Fire Hydrant	♉	Soil Retention System	∿∿∿
Prop. catchbasin	●	Construction Joint	C
Drilled Shaft No.	DS-XX	Expansion Joint	E

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

STATE OF ILLINOIS — AMISH T. BHATT — 081-006249 — LICENSED STRUCTURAL ENGINEER

AMISH T. BHATT — DATE
LICENSE EXPIRES 11/30/2018

Note "A":
At Contractor's option, Contractor may stockpile excavated material in front of the existing Soil Retention System to facilitate removal of existing Soil Retention System. Stockpiling excavated material and its subsequent removal will not be paid separately but shall be considered included with pay item Remove Sheet Piling. See Special Provisions for Remove Sheet Piling.



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
RETAINING WALL 10
F.A.I. RTE. SB 90/94
(DAN RYAN EXPRESSWAY)
F.A.I. RTE. 90/94 - SECTION 2015-022-I
COOK COUNTY
STATION 7309+74.52 TO STATION 7316+31.15
STRUCTURE NO. 016-1729

AECOM	USER NAME = bhatta	DESIGNED - DD	REVISED
		CHECKED - ATB	REVISED
	PLOT SCALE = N.T.S.	DRAWN - GF	REVISED
	PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION – I
STRUCTURE NO. 016-1729
SHEET NO. RW-01 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	164
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

0161729-62AT4-RW01-GPE

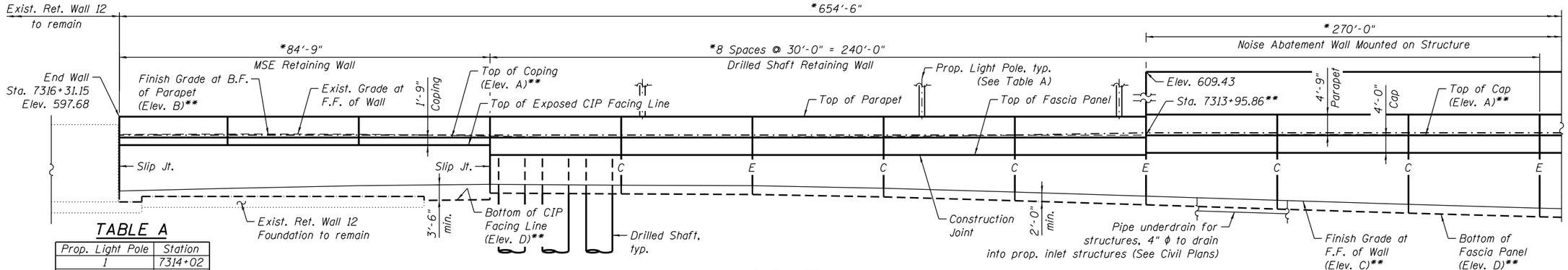


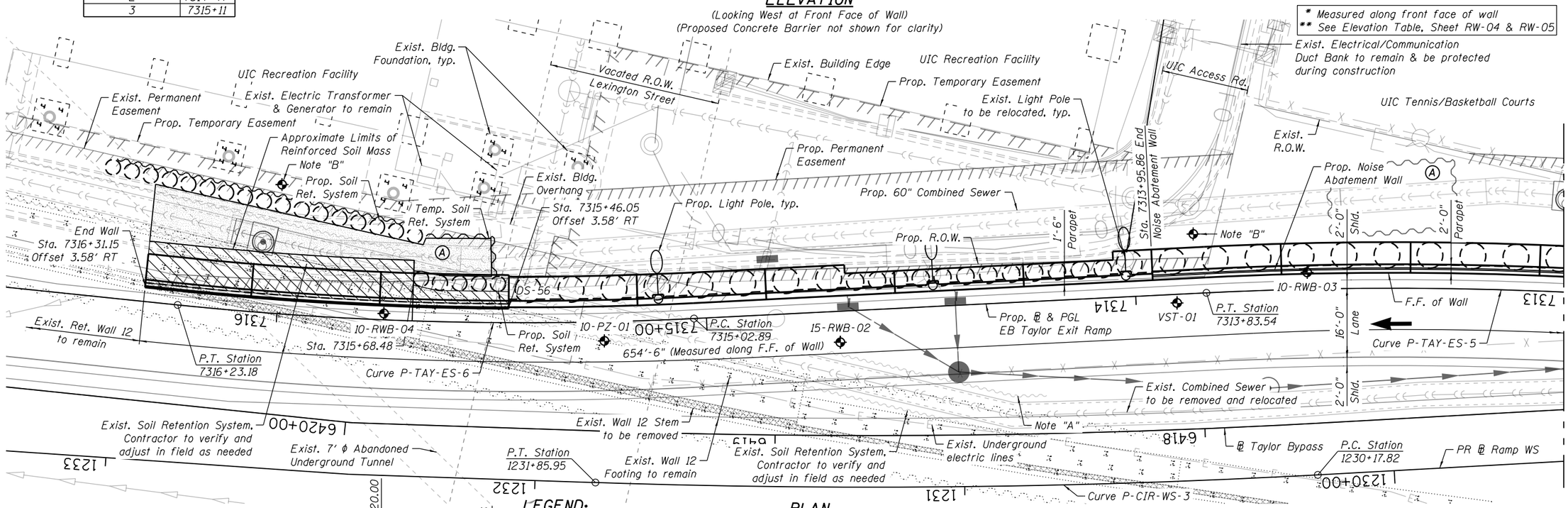
TABLE A

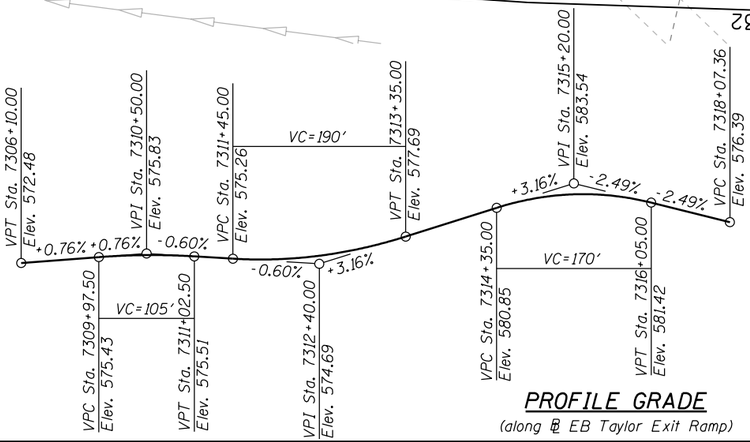
Prop. Light Pole	Station
1	7314+02
2	7314+47
3	7315+11

ELEVATION

(Looking West at Front Face of Wall)
(Proposed Concrete Barrier not shown for clarity)

* Measured along front face of wall
** See Elevation Table, Sheet RW-04 & RW-05





PROFILE GRADE

(along ℄ EB Taylor Exit Ramp)

LEGEND:

Front Face	F.F.	Boring Log/ Soil Test	
Back Face	B.F.	Light Pole	
Combined Sewer	C	Exist. Electric Cable	E
Exist. Storm Sewer		Prop. Lighting Cable	L
Prop. Storm Sewer		Fiber Optic	FO
Water Line	W	Exist. Fence	x
Fire Hydrant		Exist. Ret. Wall 12 Stem Removal	
Prop. catchbasin		Soil Retention System	
Construction Joint	C		
Expansion Joint	E		

PLAN

Lightweight Fill outside of Reinf. Soil Mass		Drilled Shaft No.	DS-XX

Ⓐ Approximate Location and Layout of Proposed Jacking/Receiving Pit (See Civil Plans)

Note "A":
Existing steel sheet piling is shown as per as-designed plan information. Preliminary non-destructive evaluation suggests that existing steel sheeting is not present. Prior to construction contractor shall field verify presence of existing steel sheeting. Any change order due to presence of steel sheeting shall be paid for as per contract unit price of individual pay items associated with the work.

Note "B":
In addition to vibration and displacement monitoring, the Contractor shall monitor ground movements with Slope Inclinometer. Install Slope Inclinometer at Sta. 7313+85.91, Offset 13'-10" RT & Sta. 7316+01.03 Offset 30'-0" RT. All Slope Inclinometers shall be installed prior to drilling for drilled shafts. See special provisions for Slope Inclinometer.

NOTES:

1. See Civil Plans for further information on Exist. Combined Sewer, Exist. Duct Bank and Exist. Light Poles.

GENERAL PLAN AND ELEVATION
RETAINING WALL 10
F.A.I. RTE. SB 90/94
(DAN RYAN EXPRESSWAY)
F.A.I. RTE. 90/94 - SECTION 2015-022-I
COOK COUNTY
STATION 7309+74.52 TO STATION 7316+31.15
STRUCTURE NO. 016-1729

AECOM

USER NAME = keserovicm	DESIGNED - DD	REVISED	
	CHECKED - ATB	REVISED	
PLOT SCALE = N.T.S.	DRAWN - GF	REVISED	
PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION – II
STRUCTURE NO. 016–1729
SHEET NO. RW-02 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	165
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		

0161729-62A74-RW02-GPE

GENERAL NOTES

1. Stations and offsets for the wall are given from the Prop. ℄ EB Taylor Exit Ramp to the front face of Wall.
2. Wall to be built along straight chords between expansion and construction joints.
3. Wall lengths measured along front face of wall unless noted otherwise.
4. Reinforcement bars designated (E) shall be epoxy coated.
5. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths per line.
6. Protective Coat shall be applied to exposed surfaces of the parapet and MSE Coping. Concrete sealer shall be applied to exposed surfaces of the facing and CIP MSE fascia.
7. Slipforming of the parapets is not allowed.
8. The Contractor shall field verify location of exist. utilities and shall take all precautions to protect exist. utilities during the construction of the wall. Any damage to the exist. utilities shall be responsibility of the Contractor.
9. The Contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge and other loads applied to the structures will not have detrimental effects on the adjacent buildings, utilities and retaining wall foundations. See Special Provision for Construction Vibration Monitoring.
10. Concrete for the Drilled Shafts shall be in accordance with Section 516 of Standard Specifications, except that the mix design of concrete shall attain a compressive strength of 7,000 psi at 14 days.
11. Concrete Fascia Panel shall be paid for as Concrete Structures. Anchor Slab and Parapet concrete shall be paid for as Concrete Superstructure.
12. See Special Provision for Mechanically Stabilized Earth Retaining Wall, Special for design and construction requirements.
13. Construction of Noise Abatement Wall shall be coordinated with construction of Retaining Wall 10 (S.N.. 016-1729).
14. Contractor shall follow requirements of Special Provision "Performance Based Noise Abatement Wall (Precast Concrete)" for material, design, fabrication, construction and erection requirements of the proposed Noise Abatement Wall, Structure Mounted.
15. The Contractor shall take all necessary precautions not to contaminate groundwater during the drilled shaft construction operation. Contractor is responsible for the proper containment and disposal of the contaminated groundwater and spoils resulting from Contractor's means and methods. No additional cost will be paid for this effort.
16. Quantity for Lightweight Cellular Concrete Fill includes reinforced soil mass area and fill area outside of reinforced soil mass behind the proposed MSE Retaining Wall as indicated on plans. Type is specified as Class IV (District 1) Lightweight Cellular Concrete Fill.
17. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
18. The contractor shall provide vibration and displacement monitoring at the locations specified in the Special Provision for Construction Vibration Monitoring, to ensure that removal/construction activities in the vicinity of the structures do not have detrimental effects on building foundations. No additional compensation shall be provided to the Contractor for alternative means and methods, or additional precautionary measures, required during removal/construction activities to satisfy these requirements. See Contract Special Provisions for details.
19. Limited groundwater elevation data is available in the boring logs. In addition, groundwater may also be present in deeper granular layers. The groundwater may rise in the shafts to an elevation above the top of granular layers. The Contractor shall consider this information when choosing construction methods. The contractor will not be compensated for issues related to the groundwater elevation.
20. Any storage of construction equipment and material behind the wall is not allowed.
21. Temporary and permanent steel casing(s) shall be placed through the upper granular soils (sand and gravel) by twisting, screwing and pushing the casing into the underlying soft clay formation a sufficient distance to provide a watertight seal. Once this seal has been achieved, the soil and water inside the casing can be removed. The casing can then be extended to the required depth by twisting, screwing and pushing in conjunction with excavation inside of the casing. Extend the casing as necessary to control the inflow of groundwater. The drilled excavation shall not advance below the bottom of the casing during this installation.
22. Permanent Sheet Piling shall be as per Std. Spec. Section 522.06 and as modified herein. Perm. Sheet Piling shall be installed without the use of impact-type pile drivers. The proposed equipment and procedures used for the installation shall be submitted to the Engineer for approval prior to their use. If vibratory equipment utilized, the Contractor shall also submit documentation regarding the operating noise levels and operating vibration characteristics of the equipment proposed. The approval of the equipment and procedure by the Engineer does not guarantee the performance in the field of the equipment will be acceptable. If in the judgment of the Engineer, the noise and/or vibration effects exceed those required by the local residents, then the Contractor must halt production and find a remedy suitable to the Engineer. Threshold values for vibration monitoring are included in the special provision "CONSTRUCTION VIBRATION MONITORING". The costs incurred finding suitable equipment and procedures shall be included in the cost of Permanent Sheet Piling. No additional costs shall be paid for this effort.

CURVE DATA

(EB Taylor Exit Ramp)
Prop. Curve P-TAY-ES-4
P.I. Sta. = 7309+26.26
Δ = 44° 07′ 39" (RT)
D = 10° 13′ 53"
R = 560.00′
T = 226.98′
L = 431.30′
E = 44.25′
e = 5.8%
T.R. = NA
S.E. Run = 150′
P.C. Sta. = 7306+99.28
P.T. Sta. = 7311+30.57

CURVE DATA

(EB Taylor Exit Ramp)
Prop. Curve P-TAY-ES-5
P.I. Sta. = 7313+24.65
Δ = 7° 47′ 11" (LT)
D = 6° 36′ 03"
R = 868.00′
T = 59.07′
L = 117.96′
E = 2.01′
e = 4.4%
T.R. = NA
S.E. Run = 114′
P.C. Sta. = 7312+65.57
P.T. Sta. = 7313+83.54

CURVE DATA

(EB Taylor Exit Ramp)
Prop. Curve P-TAY-ES-6
P.I. Sta. = 7315+63.15
Δ = 8° 44′ 46" (RT)
D = 7° 16′ 16"
R = 788.00′
T = 60.26′
L = 120.29′
E = 2.30′
e = 4.6%
T.R. = NA
S.E. Run = 119′
P.C. Sta. = 7315+02.89
P.T. Sta. = 7316+23.18

TOTAL BILL OF MATERIAL

Description	Unit	Total
Removal of Existing Structures No. 1	Each	1
Structure Excavation	Cu. Yd.	1,987
Concrete Structures	Cu. Yd.	1,155.9
Concrete Superstructure	Cu. Yd.	226.7
Protective Coat	Sq. Yd.	814
Stud Shear Connectors	Each	1,796
Reinforcement Bars	Pound	1,697,280
Reinforcement Bars, Epoxy Coated	Pound	167,750
Mechanical Splicers	Each	1,512
Name Plates	Each	1
Permanent Casing	Foot	5,580
Drilled Shaft in Soil	Cu. Yd.	5,759.6
Untreated Timber Lagging	Sq. Ft.	4,581
Concrete Sealer	Sq. Ft.	10,078
Geocomposite Wall Drain	Sq. Yd.	514
Remove Sheet Piling	L. Sum	1
Lightweight Cellular Concrete Fill	Cu. Yd.	739
Crosshole Sonic Logging Testing	Each	6
Crosshole Sonic Logging Access Ducts	Foot	540
Slope Inclinometer	Each	2
Permanent Sheet Piling	Sq. Ft.	1,584
Granular Backfill for Structures	Cu. Yd.	208
Mechanically Stabilized Earth Retaining Wall, Special	Sq. Ft.	1,023
Pipe Underdrain for Structures, 4"	Foot	570
Temporary Soil Retention System	Sq. Ft.	490
Noise Abatement Wall, Structure Mounted	Sq. Ft.	3,042

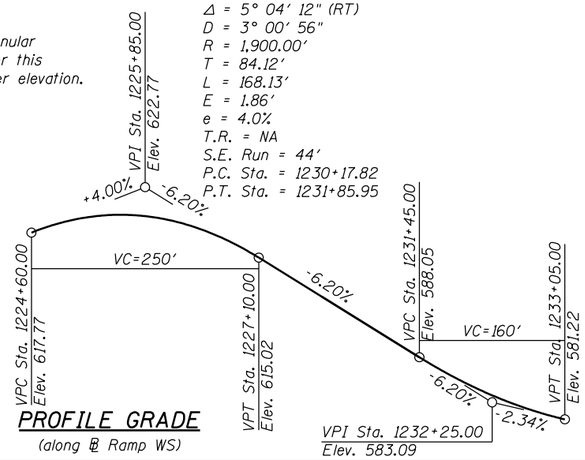
STATION 7309+74.52 TO 7316+31.15
BUILT BY
STATE OF ILLINOIS
F.A.I. RTE. 90/94 - SECTION 2015-022-I
LOADING HL-93
STRUCTURE NO. 016-1729

NAME PLATE

See Std. 515001

CURVE DATA

(Ramp WS)
Prop. Curve P-CIR-WS-3
P.I. Sta. = 1231+01.94
Δ = 5° 04′ 12" (RT)
D = 3° 00′ 56"
R = 1,900.00′
T = 84.12′
L = 168.13′
E = 1.86′
e = 4.0%
T.R. = NA
S.E. Run = 44′
P.C. Sta. = 1230+17.82
P.T. Sta. = 1231+85.95



PROFILE GRADE

(along ℄ Ramp WS)

SUGGESTED SEQUENCE OF CONSTRUCTION

1. Locate existing utilities that are to remain. Contractor to coordinate any required improvements to, or removal of, existing utilities with utility owner.
2. Complete 48" water main relocation and associated work as outlined in the Civil plans.
3. Drill for drilled shafts, install permanent casing and shaft concrete to complete drill shaft construction in the areas between jacking and receiving pit for the prop. 60" Combined Sewer.
4. At South end of the wall install proposed soil retention system & temporary soil retention system as shown in the plans.
5. Excavate for jacking and receiving pit. See Roadway Plans.
6. Install proposed 60" Combined Sewer. See Roadway Plans.
7. Excavate for proposed MSE wall and remove portion of existing wall stem that is in conflict with MSE wall construction.
8. Construct MSE wall with sacrificial fascia & CIP facing. Backfill jacking and receiving pit areas.
9. Cut off steel sheeting for proposed soil retention system and remove temporary soil retention system. Remove soil retention system at Southwest corner of Harrison St bridge West Abutment.
10. Drill for remaining drilled shafts. Install permanent casing and shaft concrete to complete drill shaft construction.
11. Complete earth excavation for drilled shaft wall to bottom of facing. Install timber lagging and geocomposite wall drain between drilled shafts. Install pipe underdrain for the wall.
12. Construct concrete fascia panel for drilled shaft wall, drilled shaft cap & parapet and anchor slab for MSE wall.
13. Complete removal of existing retaining wall and finish grading in front of the wall.

INDEX OF SHEETS

RW-01 General Plan and Elevation - I
RW-02 General Plan and Elevation - II
RW-03 General Notes, Total Bill of Materials and Index of Sheets
RW-04 Drilled Shaft Wall Typical Sections
RW-05 MSE Wall Typical Sections
RW-06 Existing Structure Removal
RW-07 Plan and Elevation - I
RW-08 Plan and Elevation - II
RW-09 Plan and Elevation - III
RW-10 Plan and Elevation - IV
RW-11 Plan and Elevation - V
RW-12 Plan and Elevation - VI
RW-13 Plan and Elevation - VII
RW-14 Drilled Shaft Wall Sections and Details
RW-15 Plan and Elevation - MSE Wall
RW-16 Plan and Details - Soil Retention System
RW-17 Retaining Wall Details - I
RW-17A Retaining Wall Details - II
RW-18 Retaining Wall Details - III
RW-19 Architectural Details
RW-20 Architectural Details Noise Abatment Wall
RW-21 Boring Logs - I
RW-22 Boring Logs - II
RW-23 Boring Logs - III
RW-24 Boring Logs - IV
RW-25 Boring Logs - V
RW-26 Boring Logs - VI
RW-27 Boring Logs - VII
RW-28 Boring Logs - VIII
RW-29 Boring Logs - IX
RW-30 Boring Logs - X
RW-31 Boring Logs - XI
RW-32 Boring Logs - XII
RW-33 Boring Logs - XIII

0161729-62A74-RW03-Gen Note

AECOM

USER NAME = keserovicm	DESIGNED - DD	REVISED
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PLOT SCALE = N.T.S.	DRAWN - DD	REVISED
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, TOTAL BILL OF MATERIALS AND INDEX OF SHEETS
STRUCTURE NO. 016-1729
SHEET NO. RW-03 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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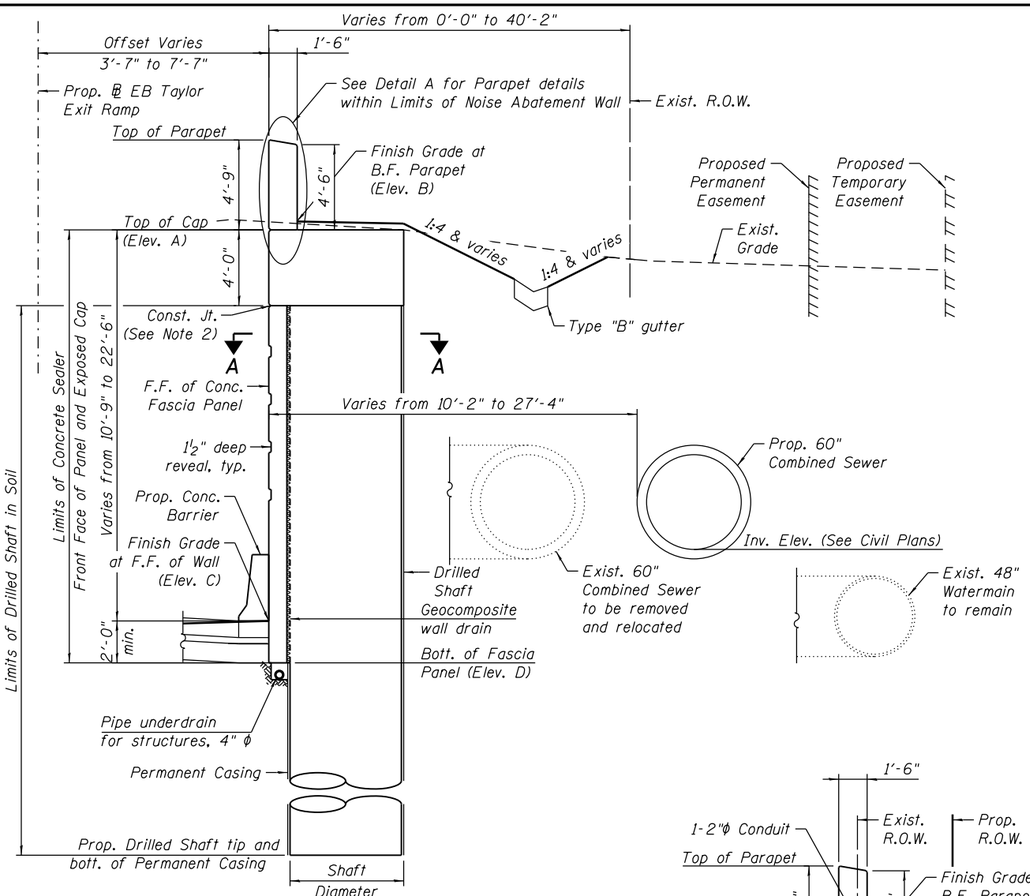
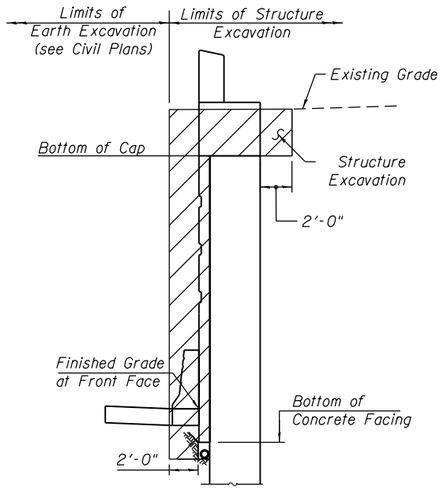
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

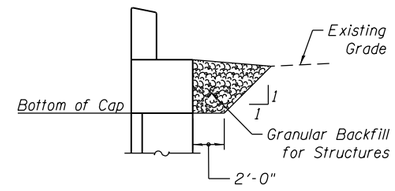


TYPICAL CROSS SECTION

(Sta. 7309+74.52 to Sta. 7315+46.05)
(Looking Upstation)

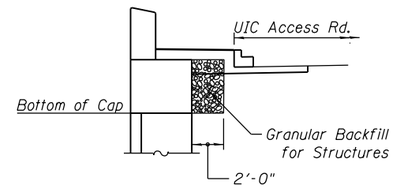


STRUCTURE EXCAVATION



GRANULAR BACKFIL FOR STRUCTURES

(Sta. 7309+74.52 to Sta. 7313+95.86)



GRANULAR BACKFILL FOR STRUCTURES

(Sta. 7313+95.86 to Sta. 7315+46.05)

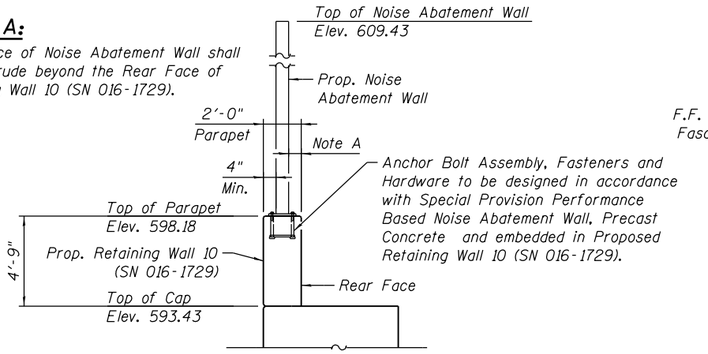
TABLE 1 - WALL ELEVATIONS

Wall Type	Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D
Drilled Shaft	7309+74.52	7.58' Rt.	597.44	597.44	574.91	572.91
Drilled Shaft	7310+14.84	7.58' Rt.	597.44	597.44	575.10	573.10
Drilled Shaft	7310+35.11	7.58' Rt.	595.44	596.00	575.26	573.26
Drilled Shaft	7310+65.52	7.58' Rt.	595.44	596.00	575.31	573.31
Drilled Shaft	7310+95.93	7.58' Rt.	595.44	596.00	575.29	573.29
Drilled Shaft	7311+26.35	7.58' Rt.	595.44 (N)	596.00	575.13	573.13
			593.43 (S)			
Drilled Shaft	7311+56.38	6.82' Rt.	593.43	593.99	575.01	573.01
Drilled Shaft	7311+86.37	5.93' Rt.	593.43	593.99	575.02	573.02
Drilled Shaft	7312+16.36	5.04' Rt.	593.43	593.99	575.21	573.21
Drilled Shaft	7312+46.35	4.15' Rt.	593.43	593.99	575.57	573.57
Drilled Shaft	7312+76.29	3.58' Rt.	593.43	593.99	576.10	574.10
Drilled Shaft	7313+06.17	3.58' Rt.	593.43	593.99	576.80	574.80
Drilled Shaft	7313+36.05	3.58' Rt.	593.43	593.99	577.65	575.65
Drilled Shaft	7313+65.92	3.58' Rt.	593.43	593.99	578.59	576.59
Drilled Shaft	7313+95.86	3.58' Rt.	593.43 (N)	593.99	579.54	577.54
			592.93 (S)			
Drilled Shaft	7314+25.86	3.58' Rt.	592.93	593.49	580.48	578.48
Drilled Shaft	7314+55.86	3.58' Rt.	592.93	593.49	581.34	579.34
Drilled Shaft	7314+85.86	3.58' Rt.	592.93	593.49	581.92	579.92
Drilled Shaft	7315+15.91	3.58' Rt.	592.93	593.49	582.04	580.04
Drilled Shaft	7315+46.05	3.58' Rt.	592.93	593.49	582.22	580.22

Elevation A - Top of Cap
Elevation B - Finish Grade at B.F. of Parapet
Elevation C - Finish Grade at F.F. of Wall
Elevation D - Bottom of Fascia Panel

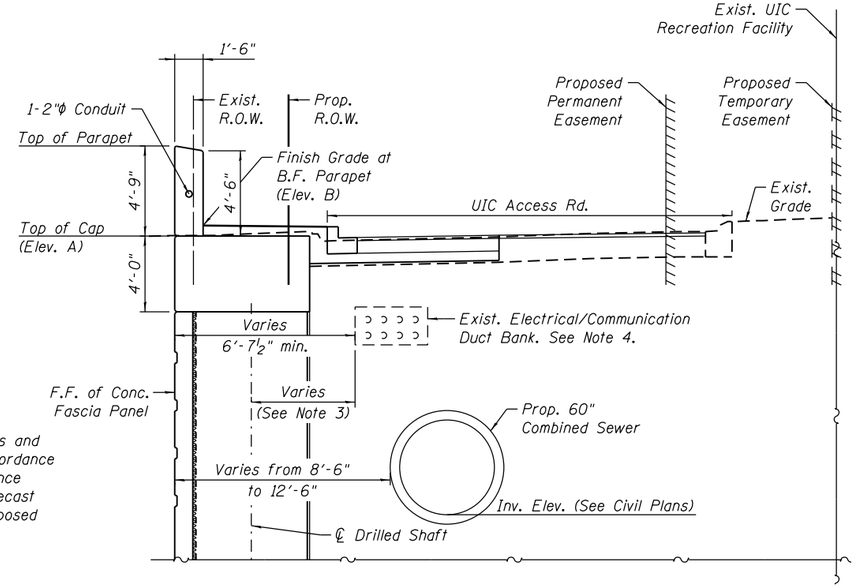
NOTE A:

Back Face of Noise Abatement Wall shall not protrude beyond the Rear Face of Retaining Wall 10 (SN 016-1729).



DETAIL A

(Parapet details within Limits of Noise Abatement Wall)
(Sta. 7311+26.35 to Sta. 7313+95.86)
(Looking Upstation)
(Wall geometry and Roadway information at front of wall not shown for clarity, see Typical Cross Section)



CROSS SECTION AT UIC RECREATION FACILITY

(Sta. 7313+95.86 to Sta. 7315+46.05)
(Looking Upstation)
(Wall geometry and Roadway information at front of wall not shown for clarity, see Typical Cross Section)

NOTES:

1. See Sheet RW-17A for Section A-A.
2. Reveal at Construction Joint changes along the length of the Wall. See architectural drawings, Sheet RW-19, for details.
3. See Table 1 on Sheet RW-12 for min. distance between the Edge of Duct Bank to ℄ Drilled Shaft.
4. Existing duct bank shall remain in service during construction. The Contractor shall take precaustions not to damage and/or undermine existing duct bank during construction. See special provisions.

0161729-62A74-RW04-TypSect

AECOM

USER NAME = bhatta	DESIGNED - DD	REVISED
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PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRILLED SHAFT WALL TYPICAL SECTIONS
STRUCTURE NO. 016-1729
SHEET NO. RW-04 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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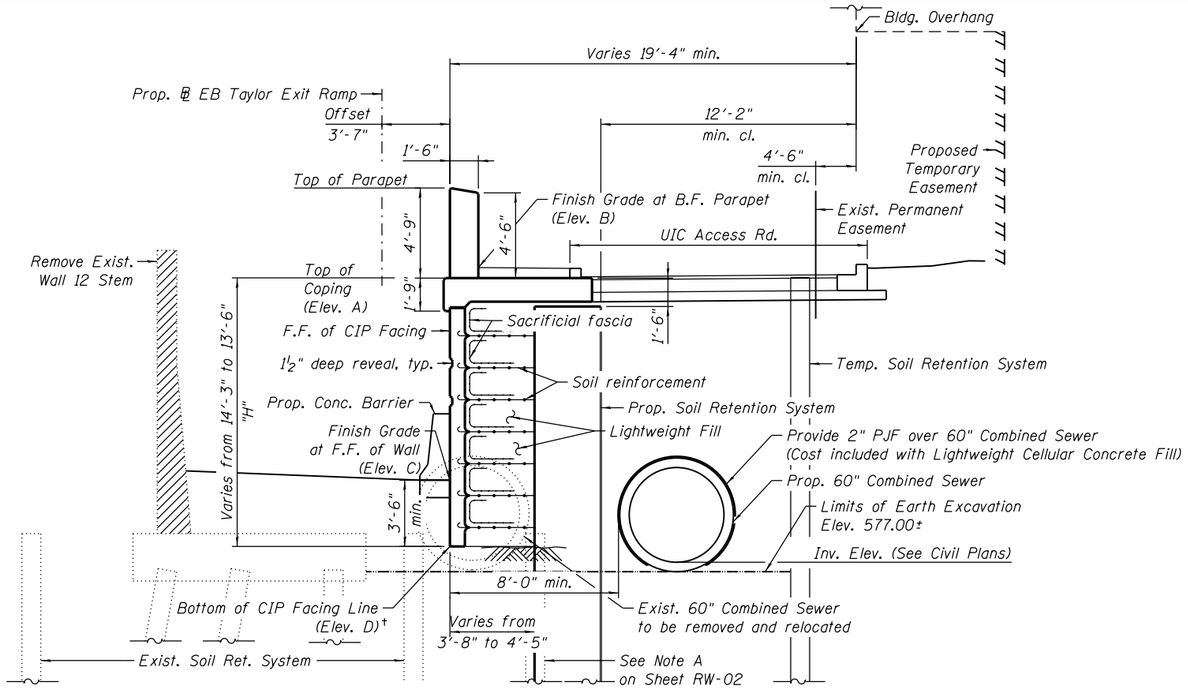
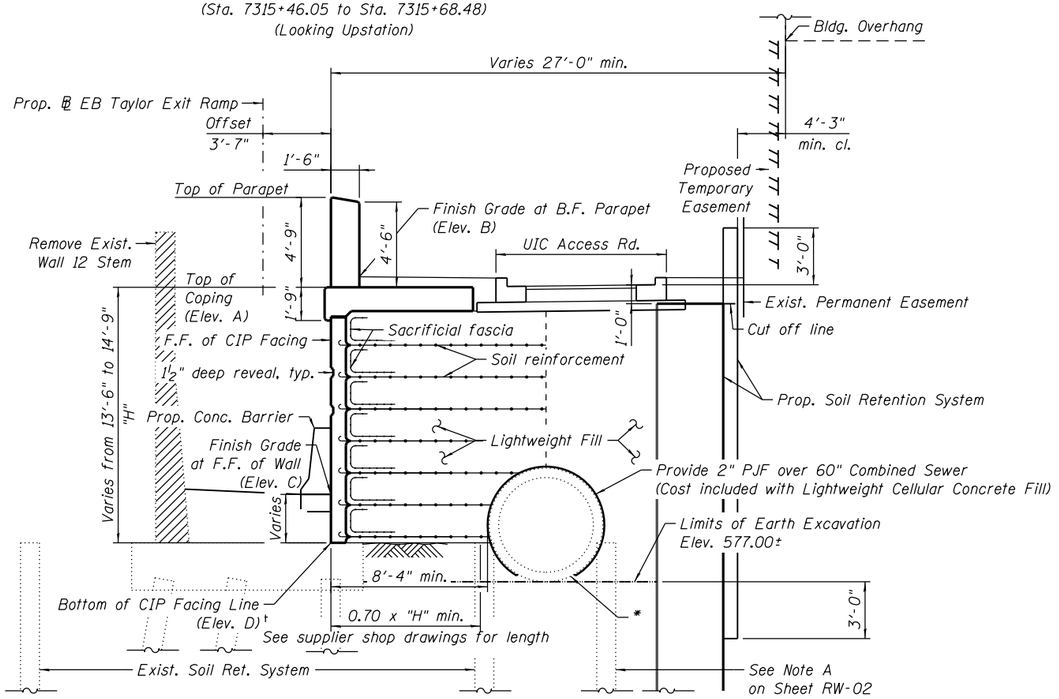
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			



TYPICAL SECTION

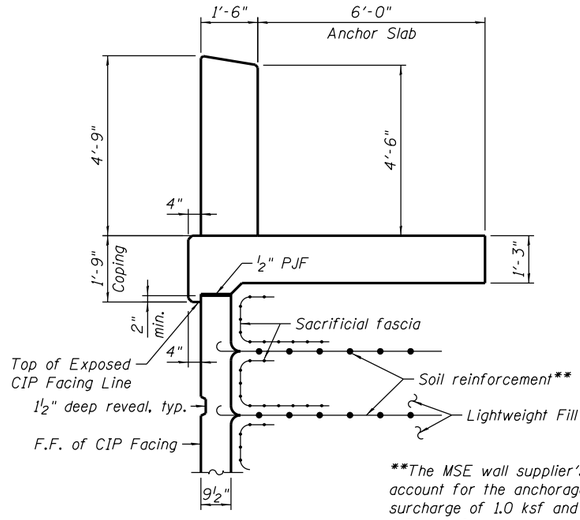
(Sta. 7315+46.05 to Sta. 7315+68.48)
(Looking Upstation)



TYPICAL SECTION

(Sta. 7315+68.48 to Sta. 7316+31.15)
(Looking Upstation)

*Prop. 60" Combined Sewer (Sta. 7315+66.46 to Sta. 7316+11.70)
Exist. 60" Combined Sewer (Sta. 7316+11.70 to Sta. 7316+31.15)



**The MSE wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.5 kips/ft. of wall.

MSE SECTION

(Looking Upstation)

ELEVATION TABLE

Wall Type	Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D
MSE	7315+46.05	3.58' Rt.	592.93	593.49	582.22	578.72
MSE	7315+76.18	3.58' Rt.	592.93	593.49	581.91	579.44
MSE	7316+06.32	3.58' Rt.	592.93	593.49	581.31	579.44
MSE	7316+31.15	3.58' Rt.	592.93	593.49	580.69	578.19

Elevation A - Top of Coping
Elevation B - Finish Grade at B.F. of Parapet
Elevation C - Finish Grade at F.F. of Wall
Elevation D - Bottom of CIP Facing Line

NOTES:

† From Sta. 7315+61.16 to Sta. 7316+31.15 MSE Panels are supported on the existing Ret. Wall footing.

1. For Proposed & Temporary Soil Retention System see Sheet RW-16.
2. MSE Wall supplier shall design MSE Wall using properties of granular reinforced mass with minimum effective interval friction angle of 34 degrees & unit weight of 120 lbs/cu. ft. for embankment behind reinforced mass; an embankment with a unit weight of 120 lbs/cu. ft. & an effective friction angle of 30 degrees shall be used in the wall system design.

LEGEND:

Removal of Existing Retaining Wall 12 (Stem only)

BILL OF MATERIAL

Item	Unit	Quantity
Mechanically Stabilized Earth Retaining Wall, Special	Sq. Ft.	1,023

0161729-62A74-RW05-TypSect

AECOM

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PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MSE WALL TYPICAL SECTIONS
STRUCTURE NO. 016-1729
SHEET NO. RW-05 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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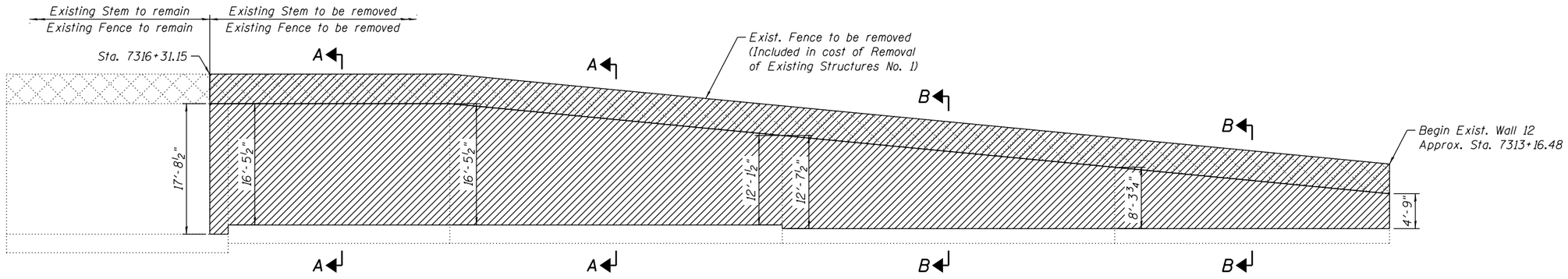
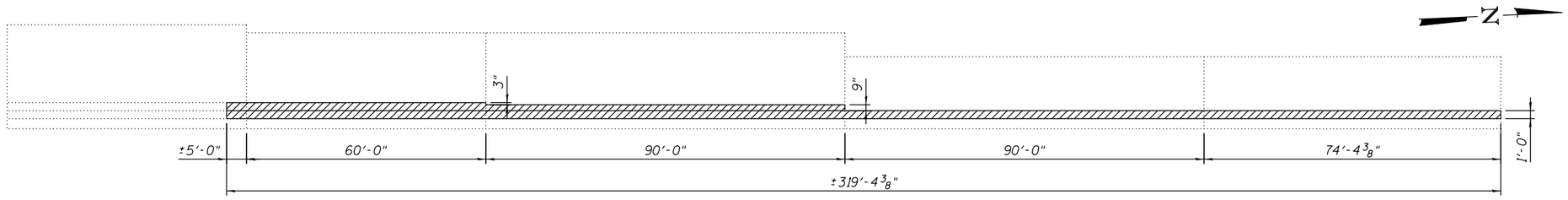
	ILLINOIS FED. AID PROJECT			



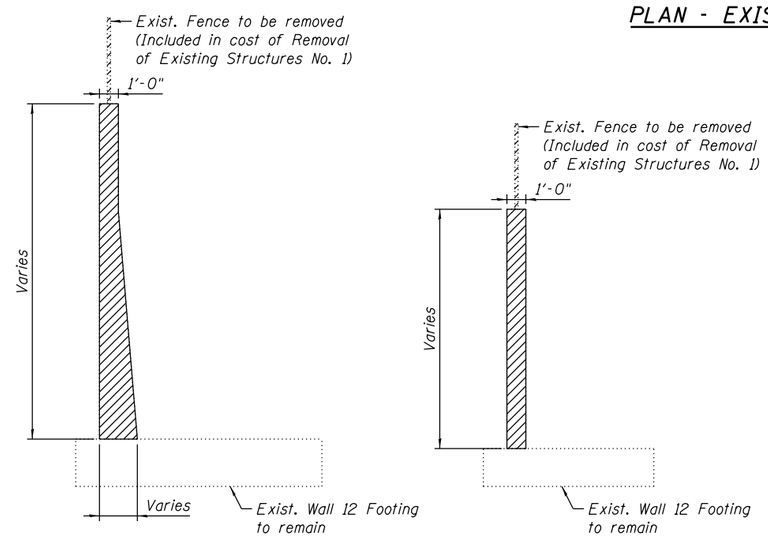
ELEVATION - EXISTING RETAINING WALL 12 STEM REMOVAL

(Existing steel piles not shown for clarity)



PLAN - EXISTING RETAINING WALL 12 STEM REMOVAL

(Existing steel piles not shown for clarity)



SECTION A-A

(Existing steel piles not shown for clarity)

SECTION B-B

(Existing steel piles not shown for clarity)

BILL OF MATERIAL

Item	Unit	Quantity
Removal of Existing Structures No. 1	Each	1

NOTES:

1. Removal of Existing Retaining Wall 12 shall be as per special provisions for Removal of Existing Structures No. 1.
2. Removal of Concrete Barrier in front of Existing Retaining Wall 12 is paid for separately. See Civil Plans.

LEGEND:

Removal of Existing Retaining Wall 12 (Stem & Fence only)

0161729-62A74-RW06-ExStrRem

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PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE REMOVAL
STRUCTURE NO. 016-1729
SHEET NO. RW-06 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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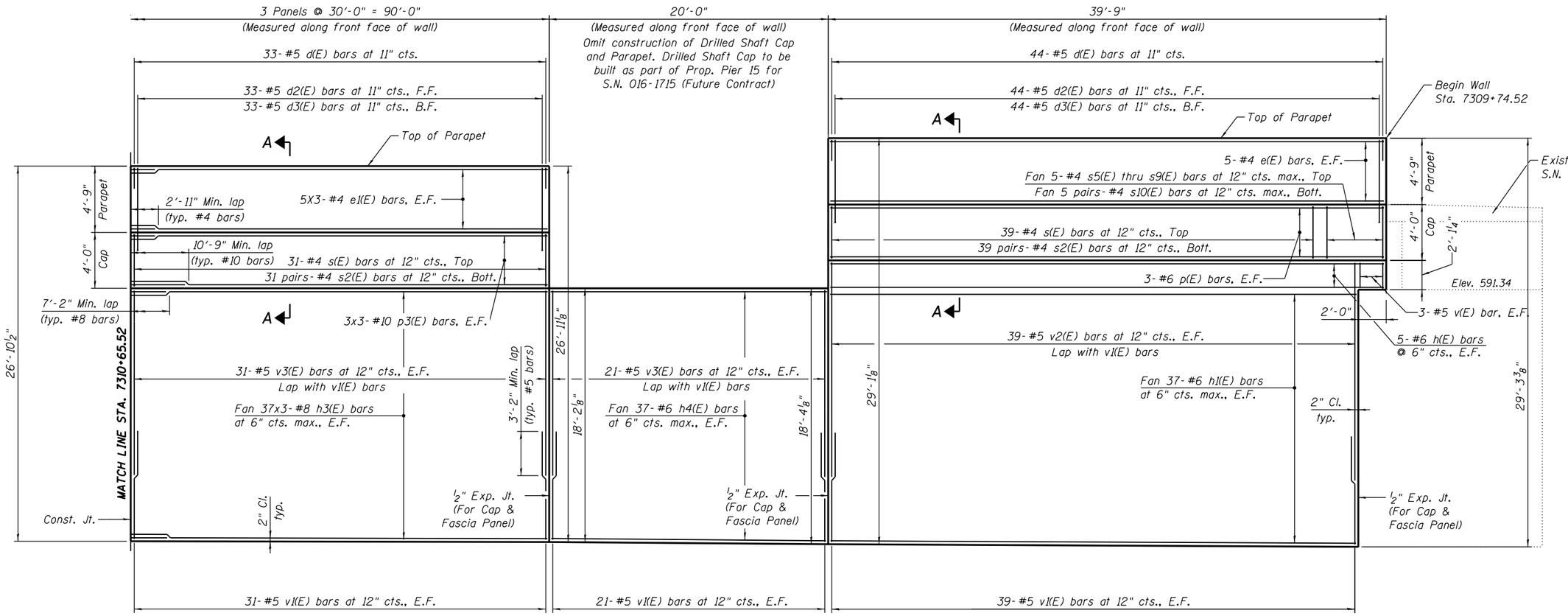
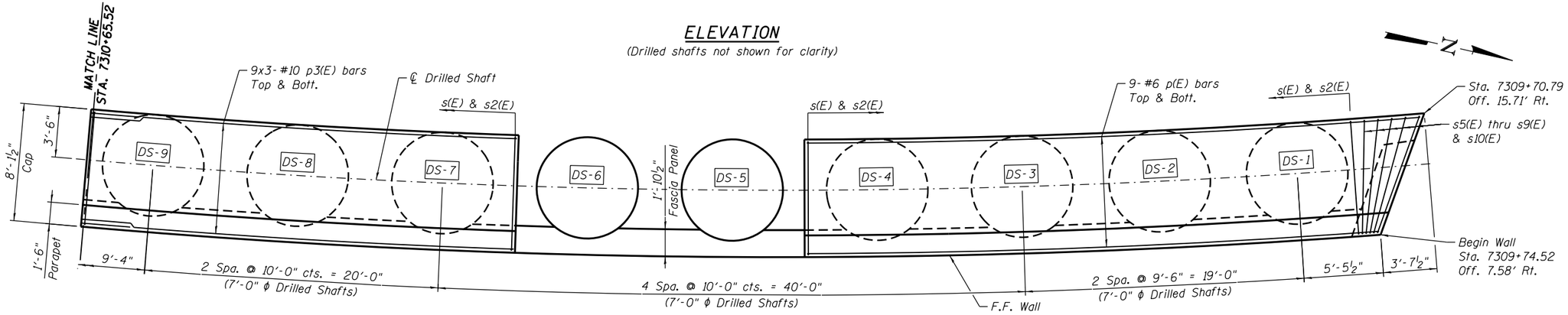
ILLINOIS	FED. AID PROJECT			



ELEVATION

(Drilled shafts not shown for clarity)



PLAN

LEGEND

DS-XX - Drilled Shaft No.

E.F. - Each Face
F.F. - Front Face
B.F. - Back Face

NOTES:

1. For Wall Elevations & Typical Section, see Sheet RW-04.
2. For Section A-A, see Sheet RW-14.
3. For Drilled Shaft Details, see Sheet RW-17.
4. For Joint Details, see Sheet RW-17A.
5. For Wall Drainage Details & Bill of Material, see Sheet RW-18.

0161729-62A74-RW07-PE

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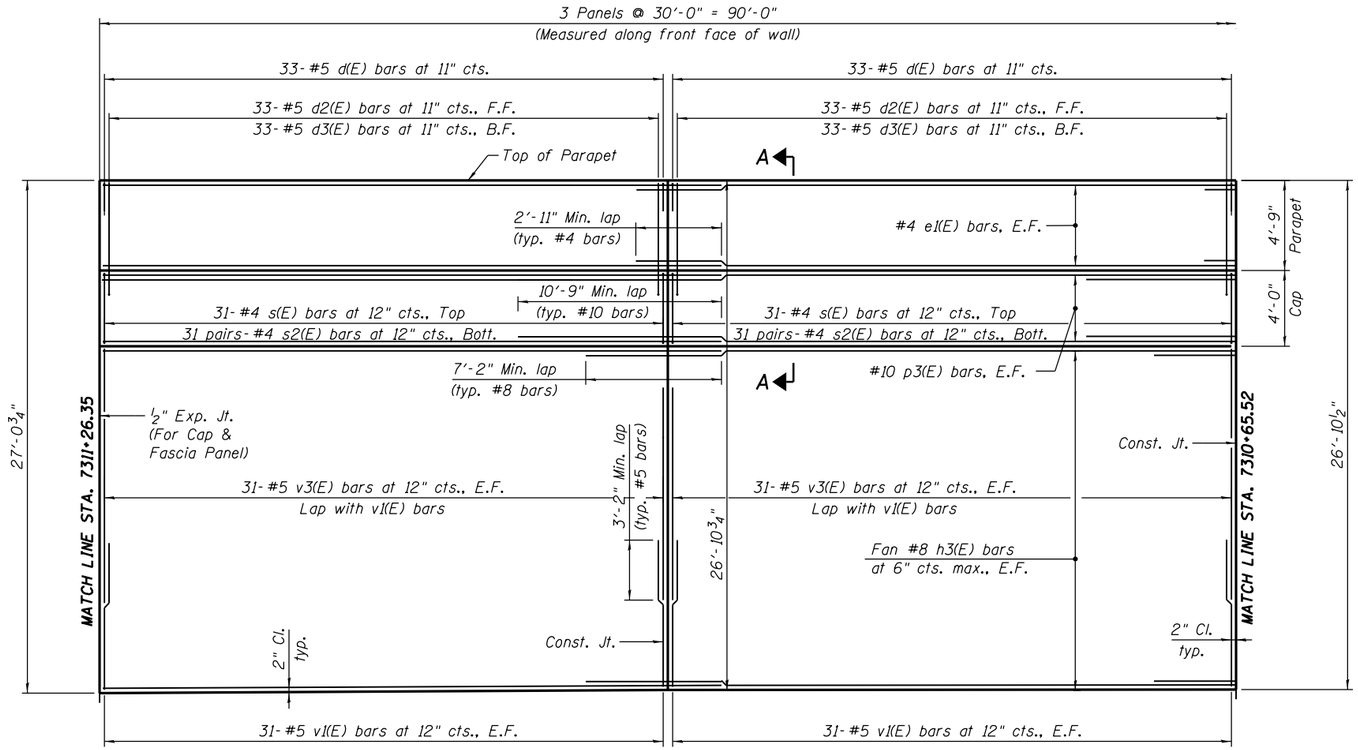
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - AV	REVISED
PLOT DATE = 6/29/2017	CHECKED - DD	REVISED

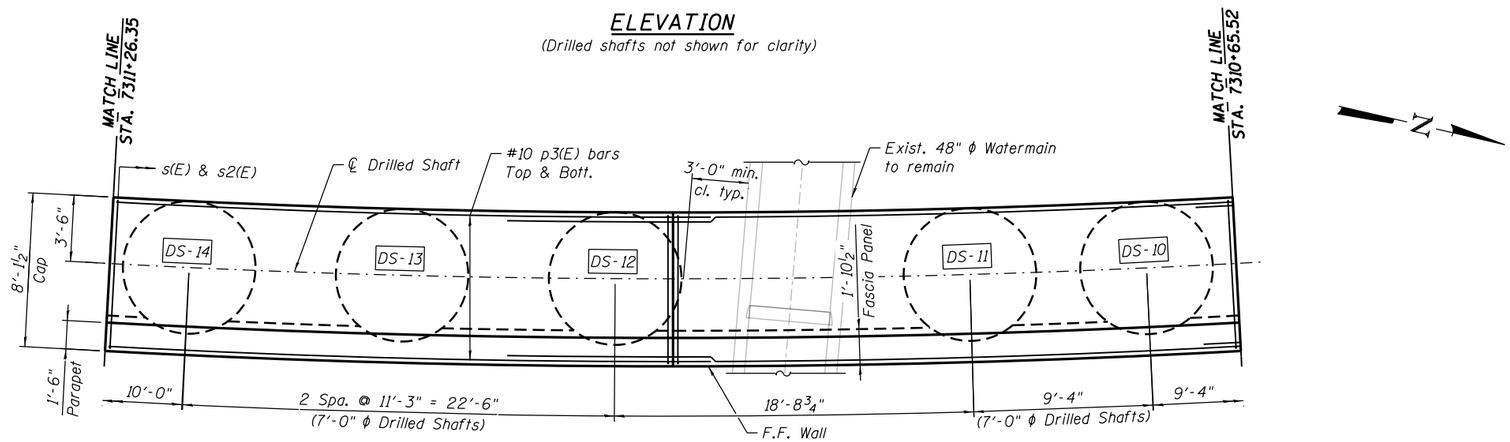
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION - I
STRUCTURE NO. 016-1729
SHEET NO. RW-07 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	170
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		



ELEVATION
(Drilled shafts not shown for clarity)



PLAN

LEGEND

DS-XX - Drilled Shaft No.

E.F. - Each Face
F.F. - Front Face
B.F. - Back Face

NOTES:

1. For Wall Elevations & Typical Section, see Sheet RW-04.
2. For Section A-A, see Sheet RW-14.
3. For Drilled Shaft Details, see Sheet RW-17.
4. For Joint Details, see Sheet RW-17A.
5. For Wall Drainage Details & Bill of Material, see Sheet RW-18.

0161729-62A74-RW08-PE

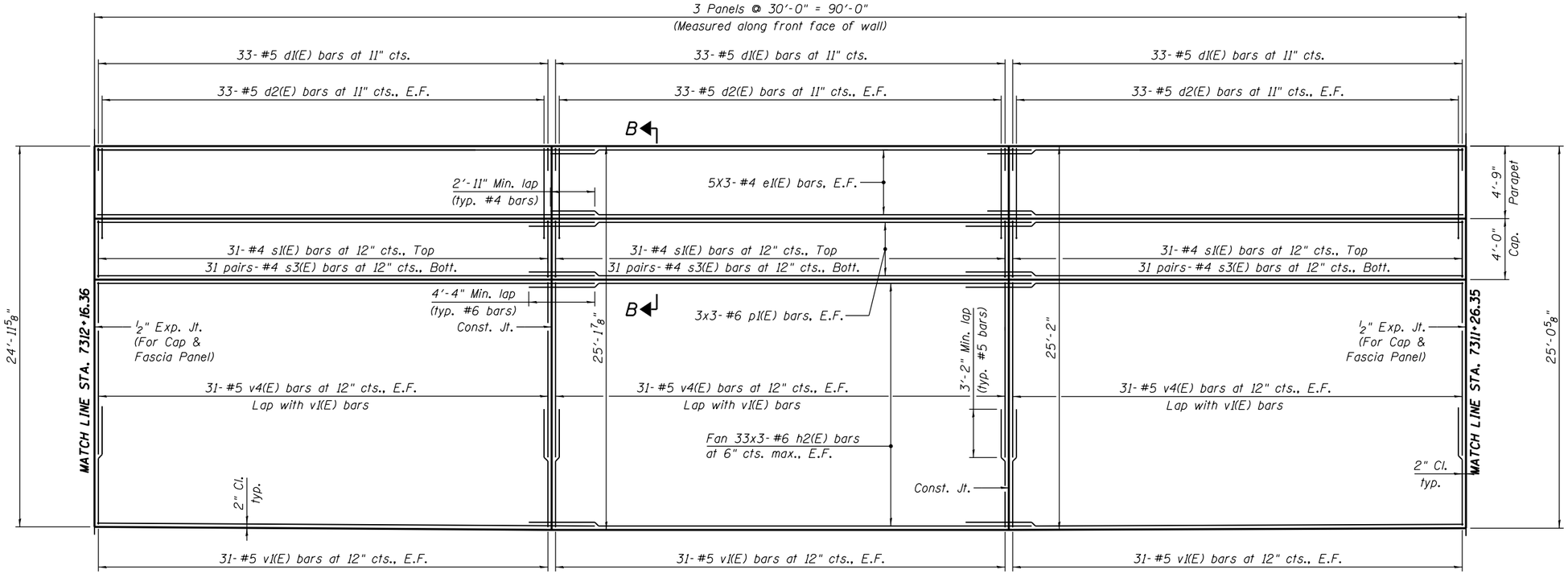
AECOM

USER NAME = keserovicm	DESIGNED - DD	REVISED	
	CHECKED - ATB	REVISED	
PLOT SCALE = N.T.S.	DRAWN - AV	REVISED	
PLOT DATE = 6/29/2017	CHECKED - DD	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

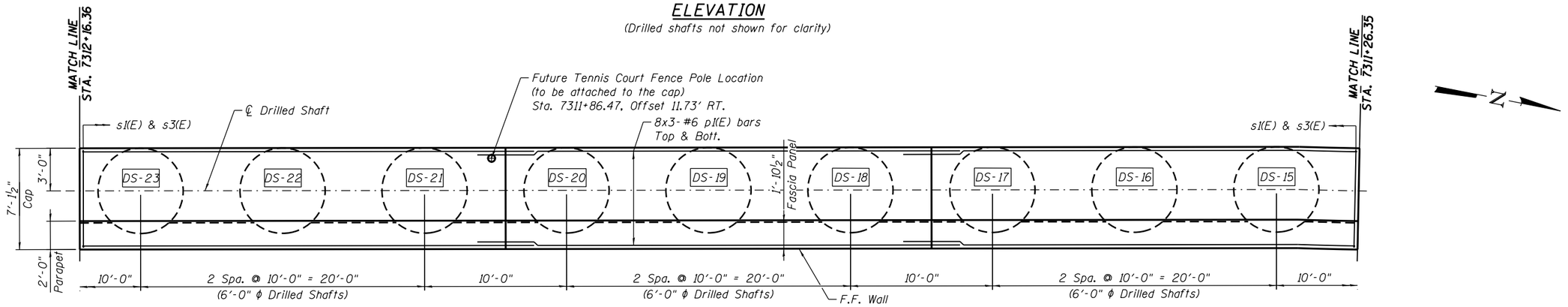
PLAN AND ELEVATION – II
STRUCTURE NO. 016–1729
SHEET NO. RW-08 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-1	COOK	275	171
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		



ELEVATION

(Drilled shafts not shown for clarity)



PLAN

LEGEND

DS-XX - Drilled Shaft No.

E.F. - Each Face
F.F. - Front Face
B.F. - Back Face

NOTES:

1. For Wall Elevations & Typical Section, see Sheet RW-04.
2. For Section B-B, see Sheet RW-14.
3. For Drilled Shaft Details, see Sheet RW-17.
4. For Joint Details, see Sheet RW-17A.
5. For Wall Drainage Details & Bill of Material, see Sheet RW-18.

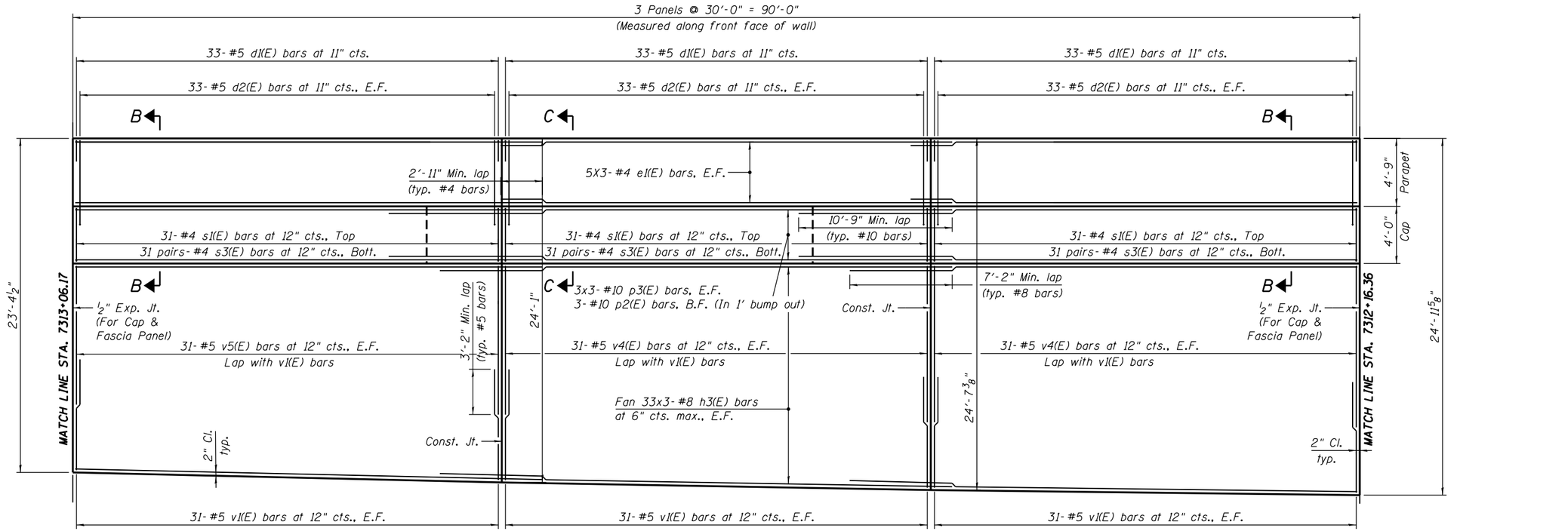
AECOM	USER NAME = keserovicm	DESIGNED - DD	REVISED
		CHECKED - ATB	REVISED
	PLOT SCALE = N.T.S.	DRAWN - AV	REVISED
	PLOT DATE = 6/29/2017	CHECKED - DD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION – III
STRUCTURE NO. 016–1729
SHEET NO. RW-09 OF RW-33 SHEETS

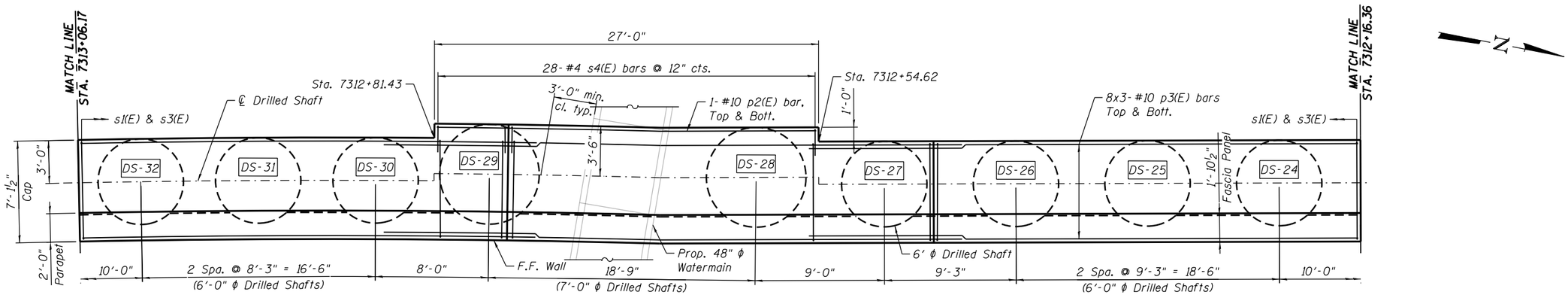
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-1	COOK	275	172
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

0161729-62A74-RW09-PE



ELEVATION

(Drilled shafts not shown for clarity)



PLAN

LEGEND

DS-XX - Drilled Shaft No.

E.F. - Each Face
F.F. - Front Face
B.F. - Back Face

NOTES:

1. For Wall Elevations & Typical Section, see Sheet RW-04.
2. For Sections B-B & C-C, see Sheet RW-14.
3. For Drilled Shaft Details, see Sheet RW-17.
4. For Joint Details, see Sheet RW-17A.
5. For Wall Drainage Details & Bill of Material, see Sheet RW-18.

0161729-62A74-RW10-PE

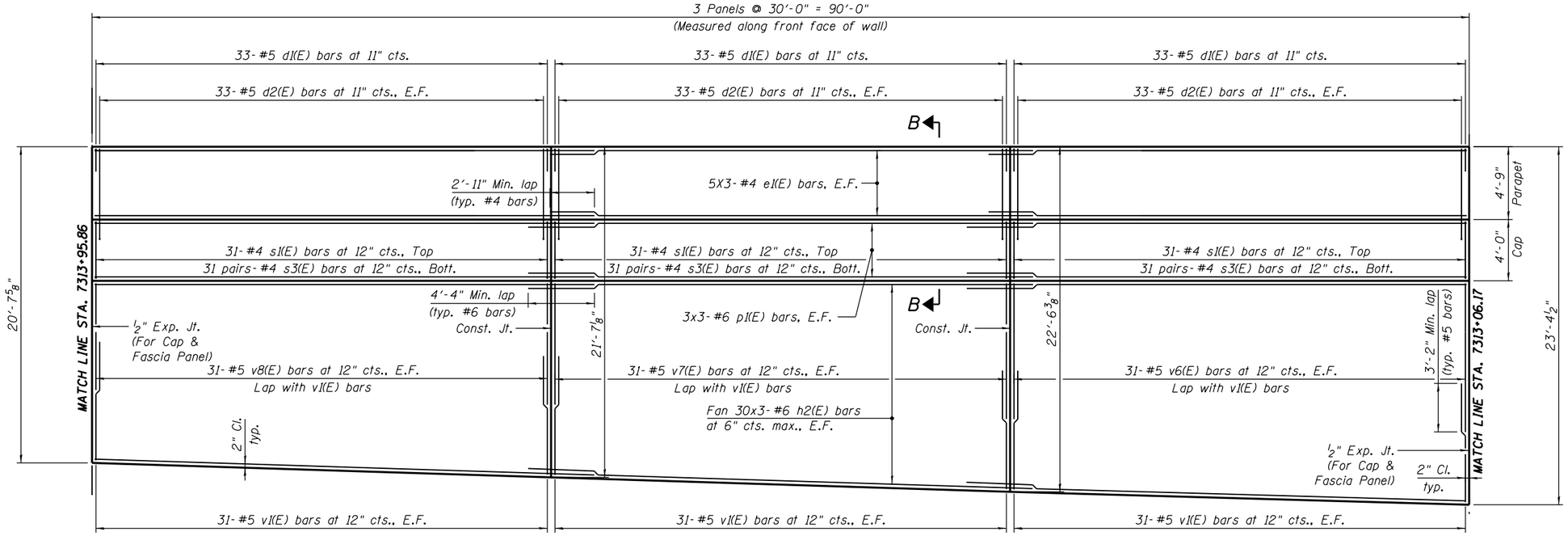
AECOM

USER NAME = keserovicm	DESIGNED - DD	REVISED	
	CHECKED - ATB	REVISED	
PLOT SCALE = N.T.S.	DRAWN - AV	REVISED	
PLOT DATE = 6/29/2017	CHECKED - DD	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

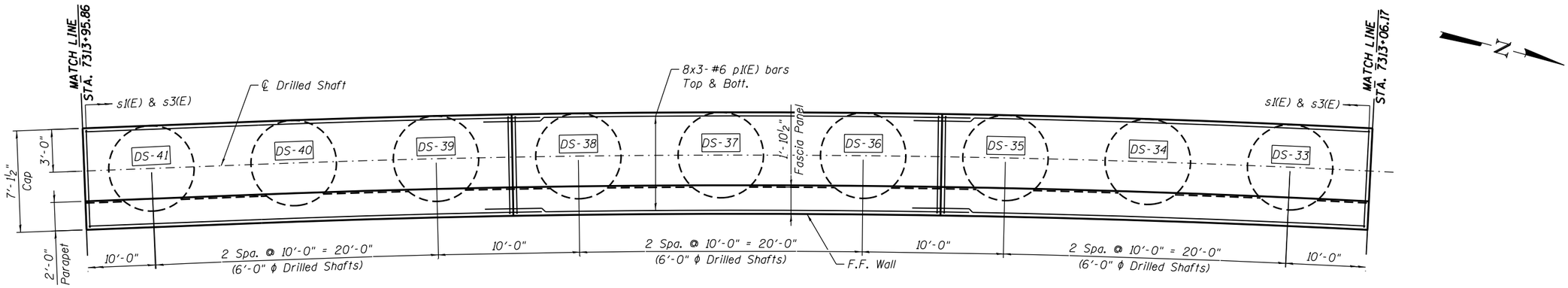
PLAN AND ELEVATION – IV
STRUCTURE NO. 016-1729
SHEET NO. RW-10 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-1	COOK	275	173
		CONTRACT NO. 62A74		
ILLINOIS	FED. AID PROJECT			



ELEVATION

(Drilled shafts not shown for clarity)



PLAN

LEGEND

DS-XX - Drilled Shaft No.

E.F. - Each Face
F.F. - Front Face
B.F. - Back Face

NOTES:

1. For Wall Elevations & Typical Section, see Sheet RW-04.
2. For Section B-B, see Sheet RW-14.
3. For Drilled Shaft Details, see Sheet RW-17.
4. For Joint Details, see Sheet RW-17A.
5. For Wall Drainage Details & Bill of Material, see Sheet RW-18.

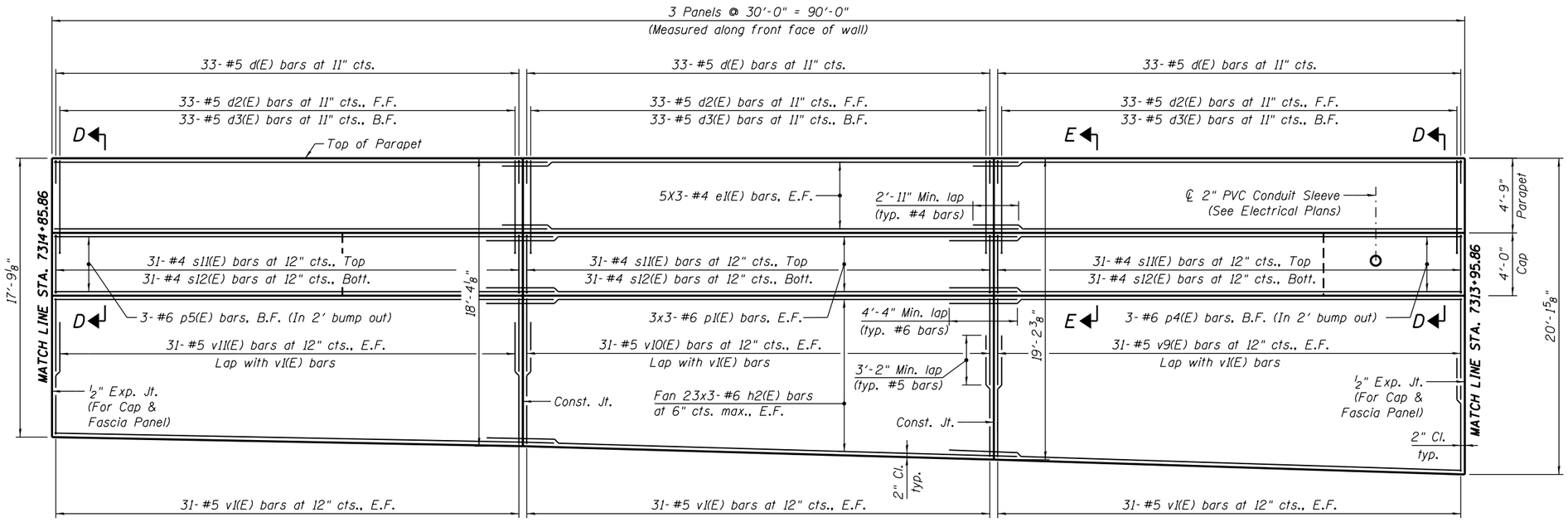
AECOM	USER NAME = keserovicm	DESIGNED - DD	REVISED
		CHECKED - ATB	REVISED
	PLOT SCALE = N.T.S.	DRAWN - AV	REVISED
	PLOT DATE = 6/29/2017	CHECKED - DD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION - V
STRUCTURE NO. 016-1729
SHEET NO. RW-11 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	174
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

0161729-62A74-RW11-PE



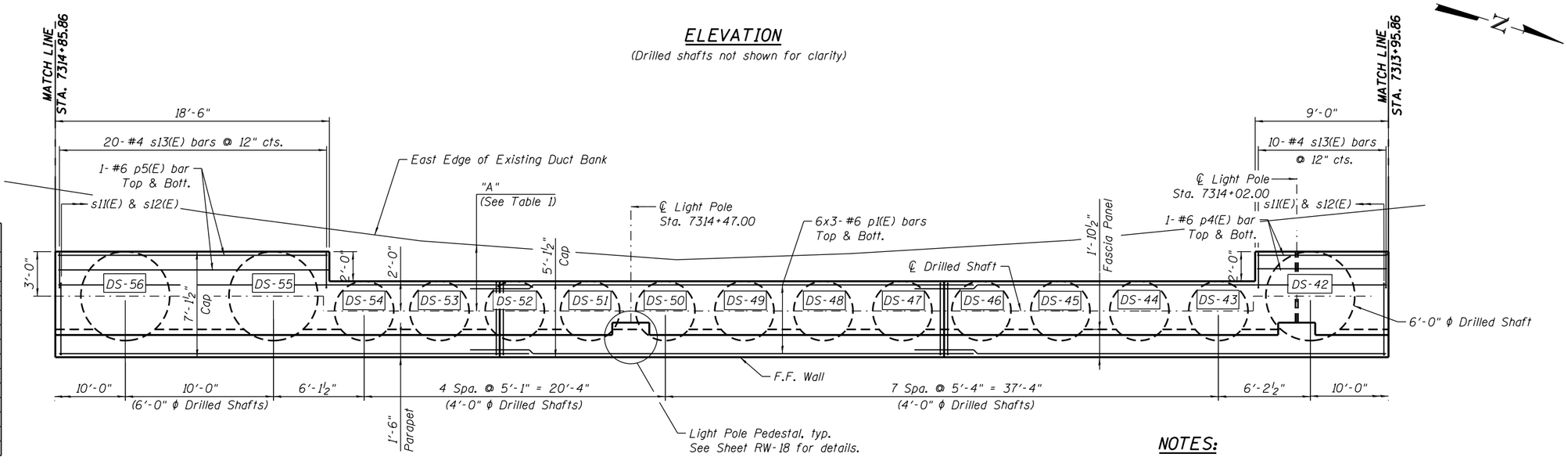


TABLE 1:

(Min. distance btwn. ℄ Drilled Shaft to Duct Bank)

Drilled Shaft No.	"A"
DS-42	5'-4"
DS-43	5'-9"
DS-44	5'-2"
DS-45	4'-9"
DS-46	4'-5"
DS-47	4'-1"
DS-48	3'-10"
DS-49	3'-7"
DS-50	3'-6"
DS-51	3'-10"
DS-52	4'-3"
DS-53	4'-7"
DS-54	5'-3"
DS-55	5'-1"

PLAN

LEGEND

DS-XX - Drilled Shaft No.

E.F. - Each Face
F.F. - Front Face
B.F. - Back Face

NOTES:

1. For Wall Elevations & Typical Section, see Sheet RW-04.
2. For Sections D-D & E-E, see Sheet RW-14.
3. For Drilled Shaft Details, see Sheet RW-17.
4. For Joint Details, see Sheet RW-17A.
5. For Wall Drainage Details & Bill of Material, see Sheet RW-18.

AECOM

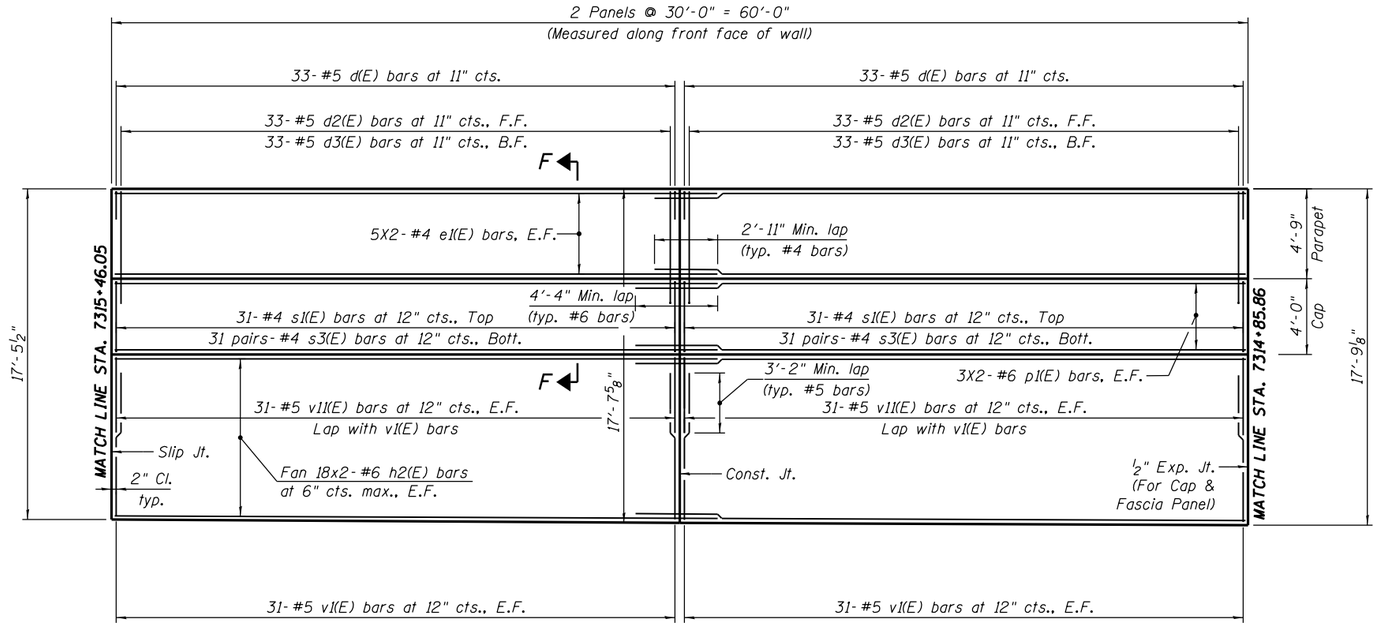
USER NAME = keserovicm	DESIGNED - DD	REVISED
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - AV	REVISED
PLOT DATE = 6/29/2017	CHECKED - DD	REVISED

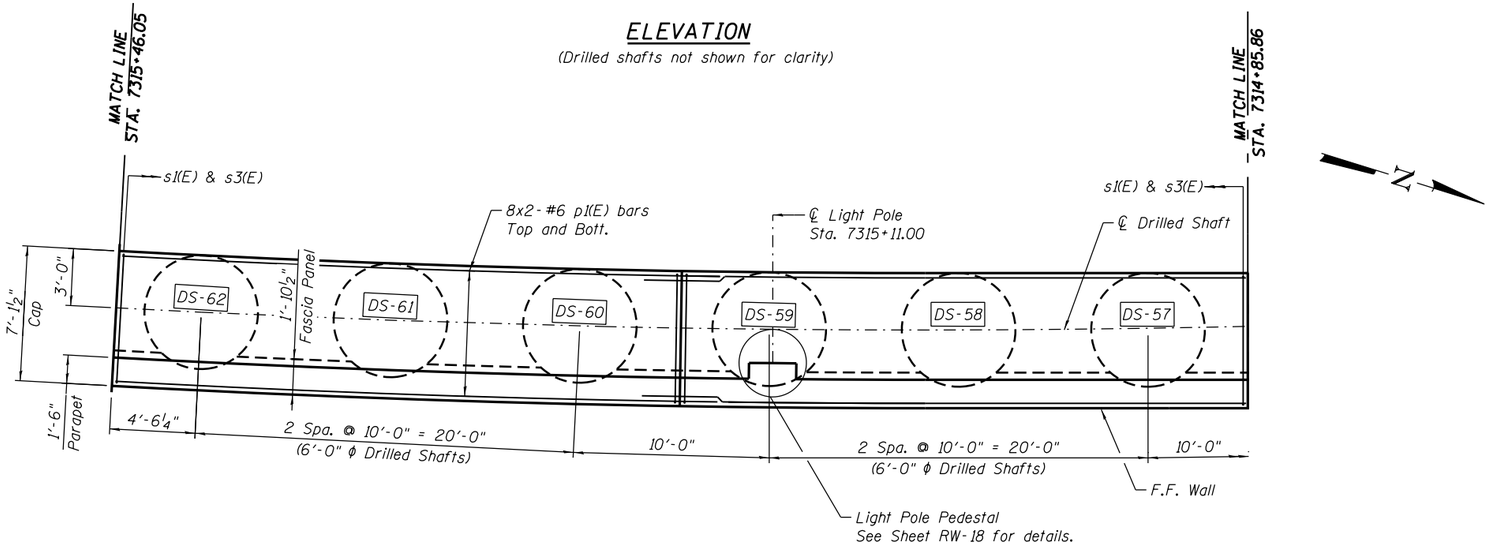
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION – VI
STRUCTURE NO. 016-1729
SHEET NO. RW-12 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	175
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		

0161729-62A74-RW12-PE





PLAN

LEGEND

DS-XX - Drilled Shaft No.

E.F. - Each Face
F.F. - Front Face
B.F. - Back Face

NOTES:

1. For Wall Elevations & Typical Section, see Sheet RW-04.
2. For Section F-F, see Sheet RW-14.
3. For Drilled Shaft Details, see Sheet RW-17.
4. For Joint Details, see Sheet RW-17A.
5. For Wall Drainage Details & Bill of Material, see Sheet RW-18.

0161729-62A74-RW13-PE

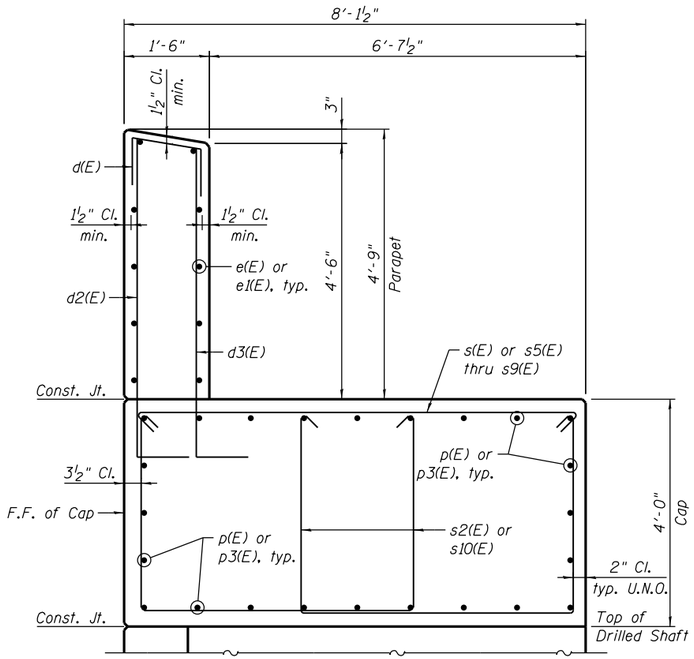
AECOM

USER NAME = keserovicm	DESIGNED - DD	REVISED
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - AV	REVISED
PLOT DATE = 6/29/2017	CHECKED - DD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

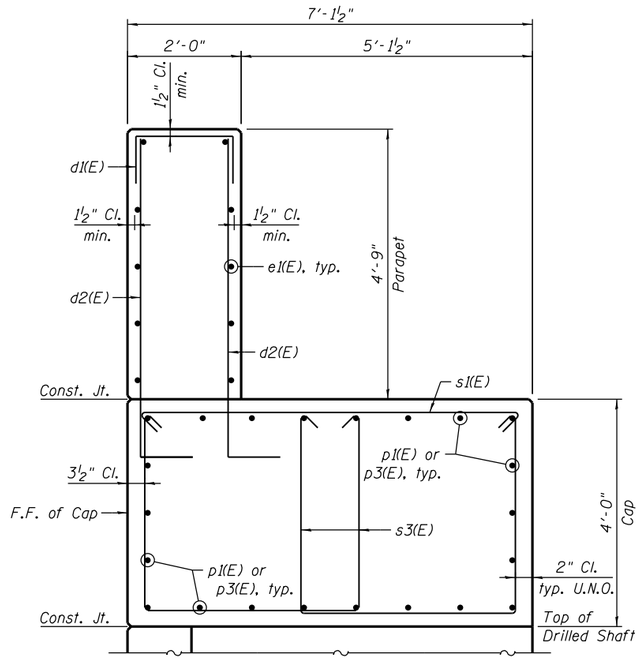
PLAN AND ELEVATION – VII
STRUCTURE NO. 016–1729
SHEET NO. RW-13 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-1	COOK	275	176
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			



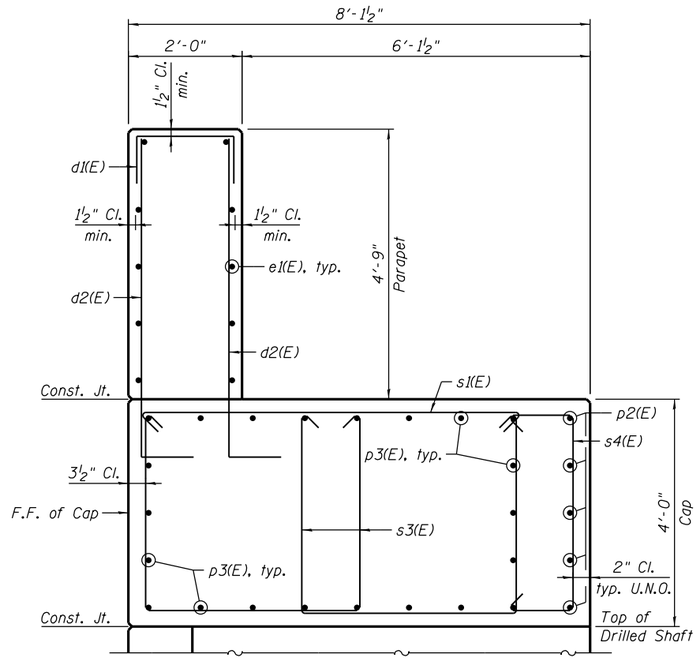
SECTION A-A

(Sta. 7309+74.27 to Sta. 7310+14.84)
(Sta. 7310+35.11 to Sta. 7311+26.35)



SECTION B-B

(Sta. 7311+26.35 to Sta. 7312+54.62)
(Sta. 7312+81.43 to Sta. 7313+95.86)

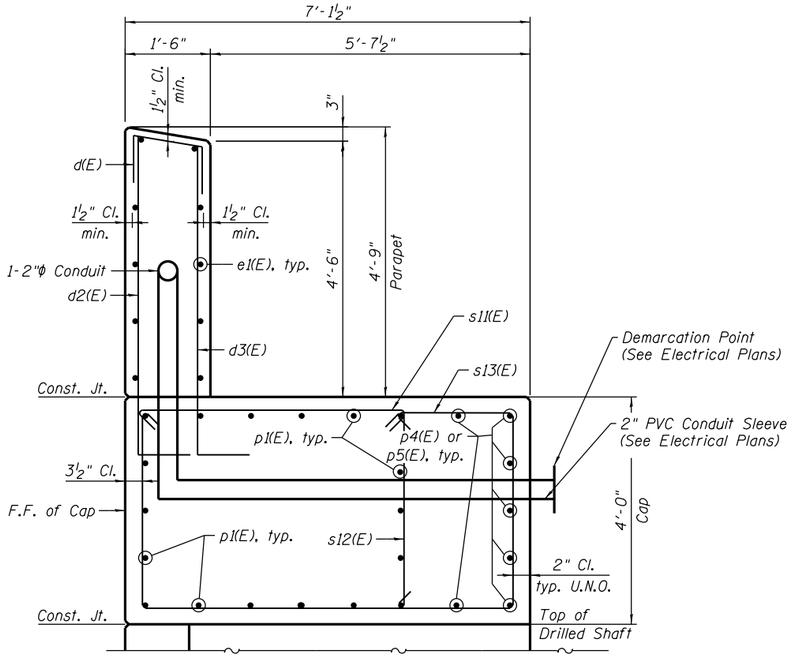


SECTION C-C

(Sta. 7312+54.62 to Sta. 7312+81.43)

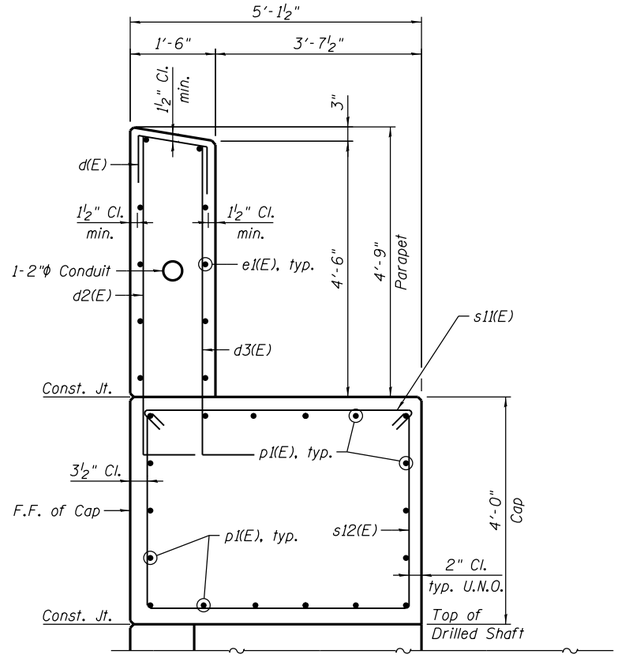
NOTE:

1. For Bill of Material, see Sheet RW-18.



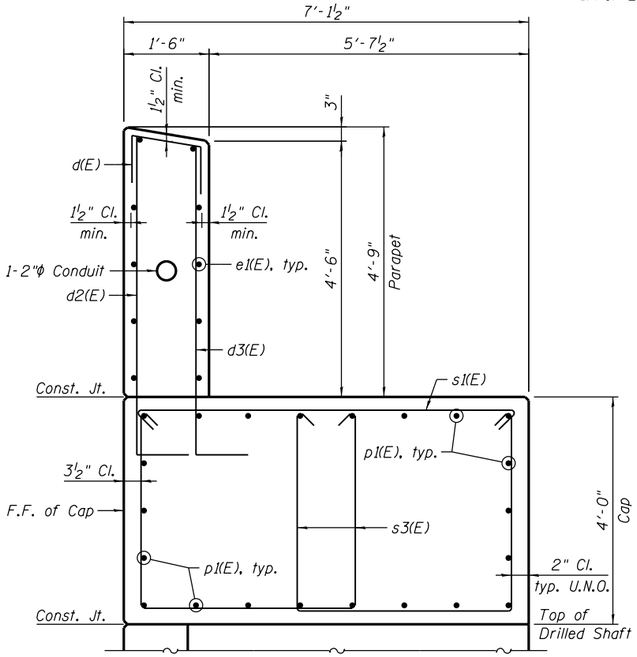
SECTION D-D

(Sta. 7313+95.86 to Sta. 7314+04.86)
(Sta. 7314+67.35 to Sta. 7314+85.86)



SECTION E-E

(Sta. 7314+04.86 to Sta. 7314+67.35)



SECTION F-F

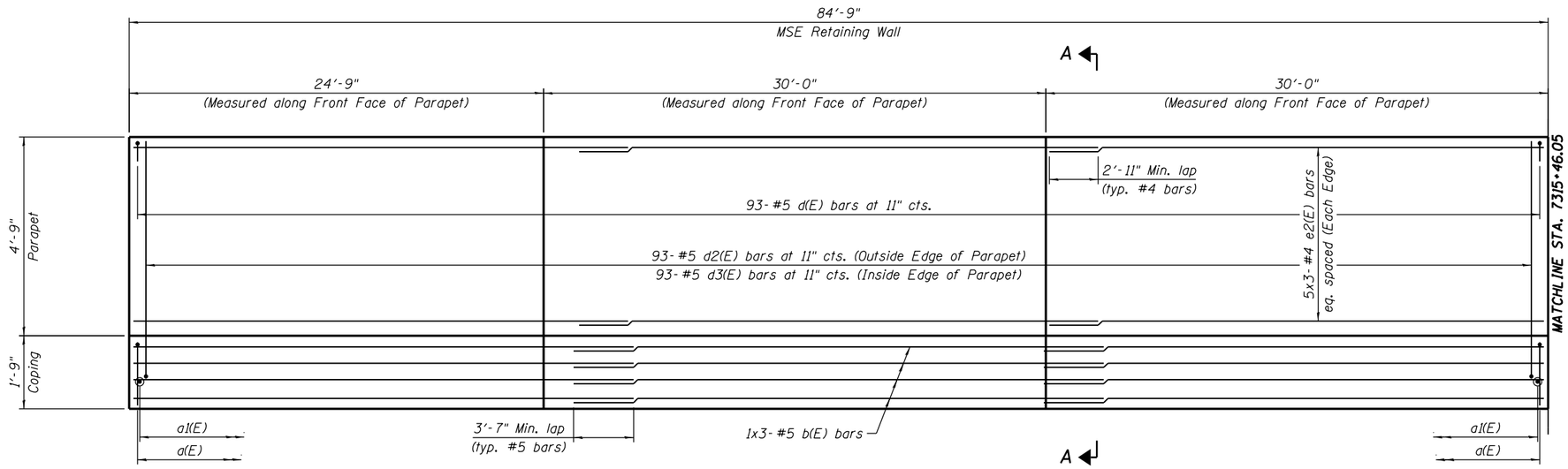
(Sta. 7314+85.86 to Sta. 7315+46.05)

AECOM	USER NAME = dabezicd	DESIGNED - DD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - ATB	REVISED	
	PLOT SCALE = N.T.S.	DRAWN - AV	REVISED	
	PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED	

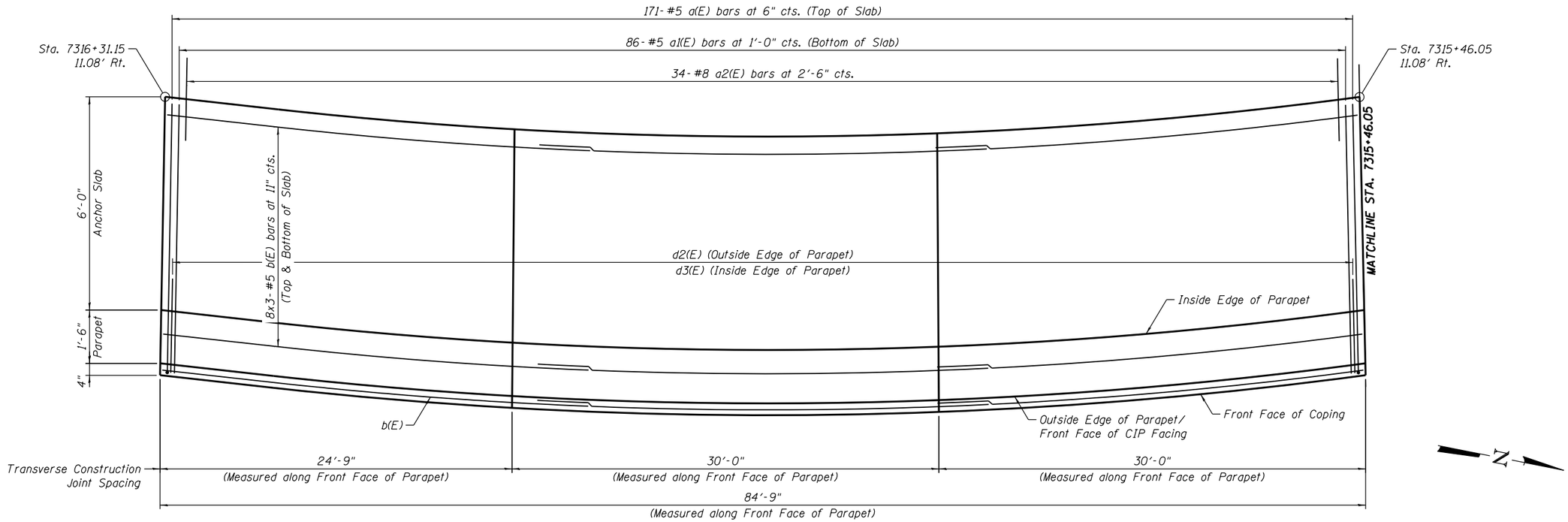
DRILLED SHAFT WALL SECTIONS AND DETAILS
STRUCTURE NO. 016-1729
SHEET NO. RW-14 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	177
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		

0161729-62A74-RW14-PE



OUTSIDE ELEVATION OF PARAPET



PLAN - PARAPET & ANCHOR SLAB

NOTES:

1. For Wall Elevations & Typical Section, see Sheet RW-05.
2. For Section A-A & Bill of Material, see Sheet RW-18.

01617729-62A74-RW15-PE

AECOM	USER NAME = keserovicm	DESIGNED - DD	REVISED
		CHECKED - ATB	REVISED
	PLOT SCALE = N.T.S.	DRAWN - DD	REVISED
	PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED

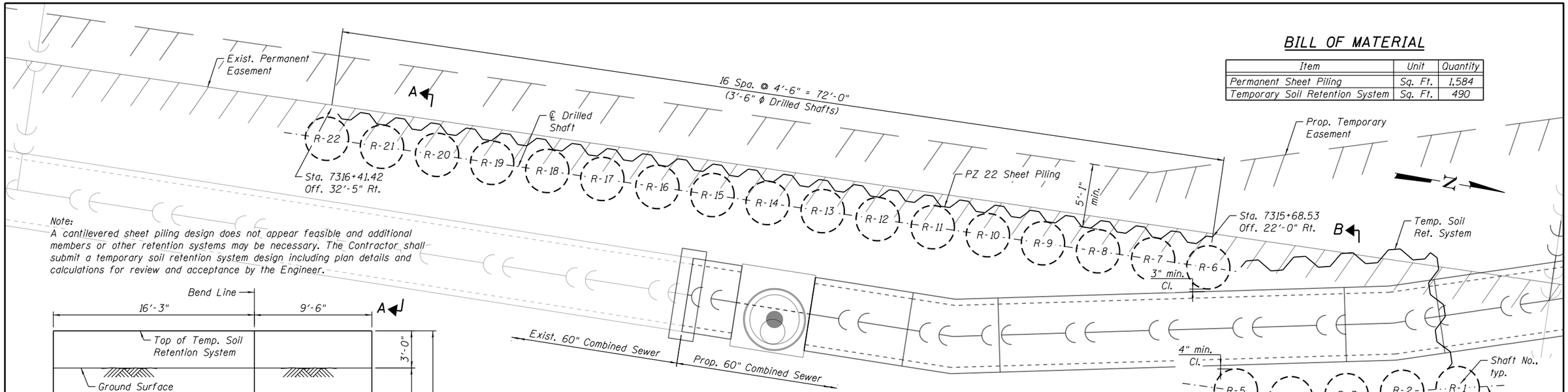
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION – MSE WALL
STRUCTURE NO. 016-1729
SHEET NO. RW-15 OF RW-33 SHEETS

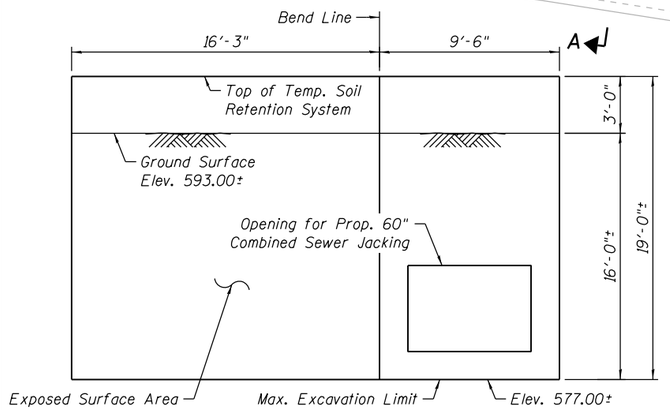
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	178
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		

BILL OF MATERIAL

Item	Unit	Quantity
Permanent Sheet Piling	Sq. Ft.	1,584
Temporary Soil Retention System	Sq. Ft.	490



Note:
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.



UNFOLDED ELEVATION - TEMPORARY SOIL RETENTION SYSTEM

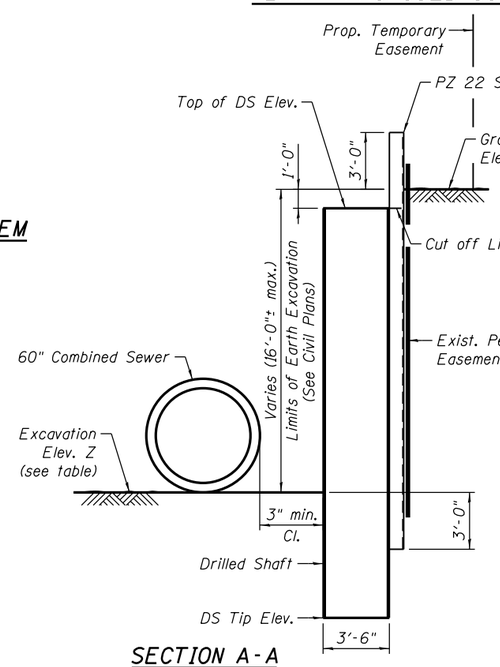
SEQUENCE OF CONSTRUCTION

1. Drill for drilled shafts, install permanent casing and shaft concrete to complete shaft construction.
2. Install steel sheet piling as shown in the plans as lagging system.
3. Install temp. soil retention system. Excavate for 60" combined sewer and MSE wall construction.

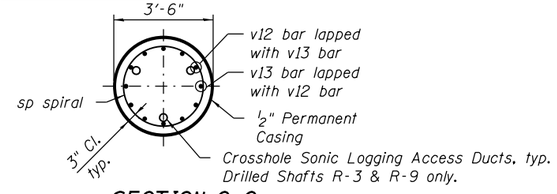
Drilled Shaft Schedule

Shaft No.	Station	Offset (ft)	Excavation Elev. Z (ft)	Top of DS Elev. (ft)	DS Tip Elev. (ft)	DS Length
R-1	7315+48.58	9.00 Rt.	577.00	591.50	511.50	80'-0"
R-2	7315+53.13	9.00 Rt.	577.00	591.50	511.50	80'-0"
R-3	7315+57.68	9.00 Rt.	577.00	591.50	511.50	80'-0"
R-4	7315+62.63	9.00 Rt.	577.00	591.50	511.50	80'-0"
R-5	7315+66.71	9.83 Rt.	577.00	591.50	511.50	80'-0"
R-6	7315+68.53	19.88 Rt.	577.00	592.00	512.00	80'-0"
R-7	7315+73.07	20.71 Rt.	577.00	592.00	512.00	80'-0"
R-8	7315+77.62	21.52 Rt.	577.00	592.00	512.00	80'-0"
R-9	7315+82.18	22.30 Rt.	577.00	592.00	512.00	80'-0"
R-10	7315+86.75	23.05 Rt.	577.00	592.00	512.00	80'-0"
R-11	7315+91.32	23.78 Rt.	577.00	592.00	512.00	80'-0"
R-12	7315+95.91	24.49 Rt.	577.00	592.00	512.00	80'-0"
R-13	7316+00.50	25.16 Rt.	577.00	592.00	512.00	80'-0"
R-14	7316+05.10	25.82 Rt.	577.00	592.00	512.00	80'-0"
R-15	7316+09.71	26.44 Rt.	577.07	592.00	512.00	80'-0"
R-16	7316+14.33	27.04 Rt.	578.00	592.00	512.00	80'-0"
R-17	7316+18.95	27.61 Rt.	580.02	592.00	512.00	80'-0"
R-18	7316+23.57	28.16 Rt.	582.03	592.00	512.00	80'-0"
R-19	7316+28.04	28.70 Rt.	584.03	592.00	512.00	80'-0"
R-20	7316+32.51	29.23 Rt.	585.92	592.00	512.00	80'-0"
R-21	7316+36.97	29.77 Rt.	588.07	592.00	512.00	80'-0"
R-22	7316+41.44	30.30 Rt.	590.32	592.00	512.00	80'-0"

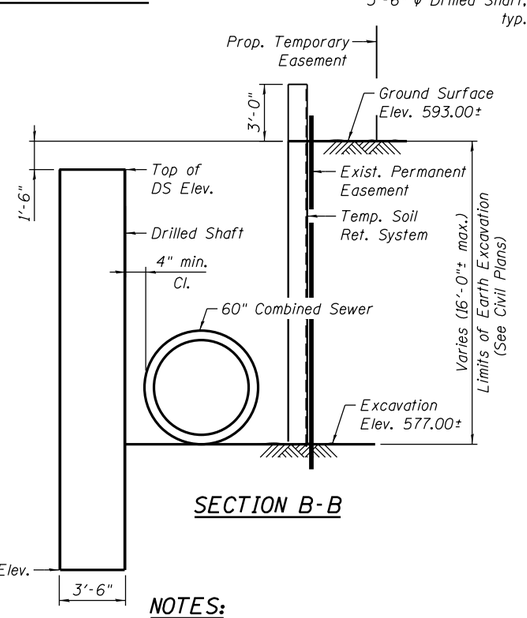
PLAN - PROPOSED SOIL RETENTION SYSTEM



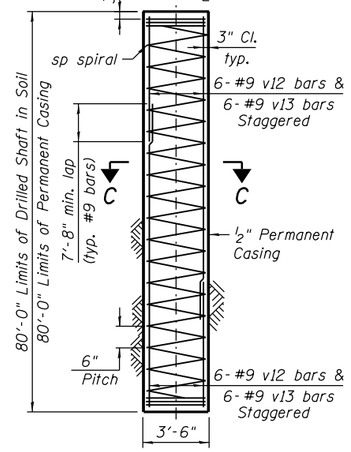
SECTION A-A



SECTION C-C



SECTION B-B



TYPICAL 3'-6" ϕ SHAFT ELEVATION

NOTES:

1. When splicing spiral reinforcement is necessary, the spiral shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4 or shall both terminate with a 135° standard hook.
2. Stations and offsets are measured along proposed ℄ EB Taylor Exit Ramp.
3. For additional Bill of Material, see Sheet RW-18.
4. Perform Crosshole Sonic Logging Testing on Drilled Shafts R-3 and R-9.
5. For Design Stresses, see Sheet RW-01.
6. See Civil Plans for Earth Excavation Quantity.

0161729-62A74-RW16-PE

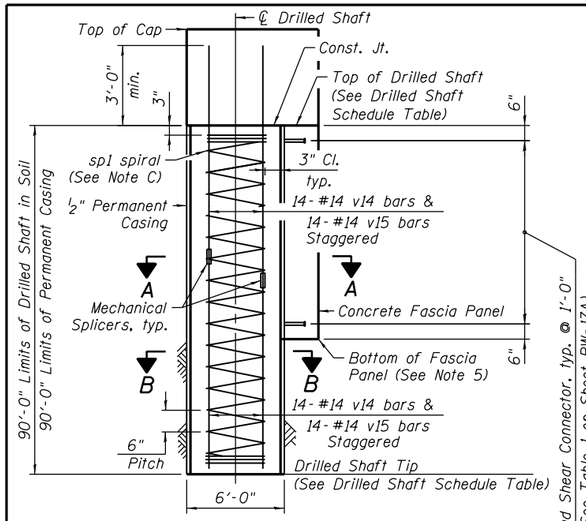
AECOM

USER NAME = bhatta	DESIGNED - DD	REVISED
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - DD	REVISED
PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED

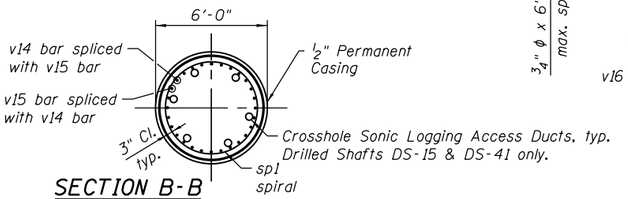
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND DETAILS – SOIL RETENTION SYSTEM
STRUCTURE NO. 016-1729
SHEET NO. RW-16 OF RW-33 SHEETS

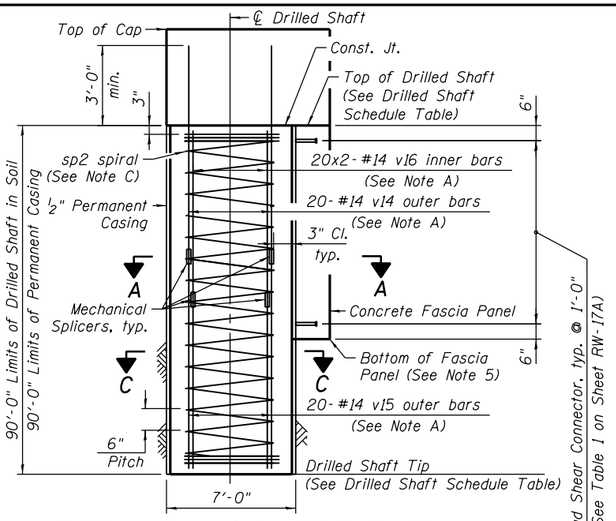
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	179
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		



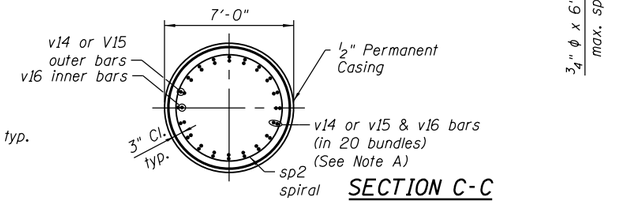
TYPICAL 6'-0" ϕ SHAFT ELEVATION



SECTION B-B

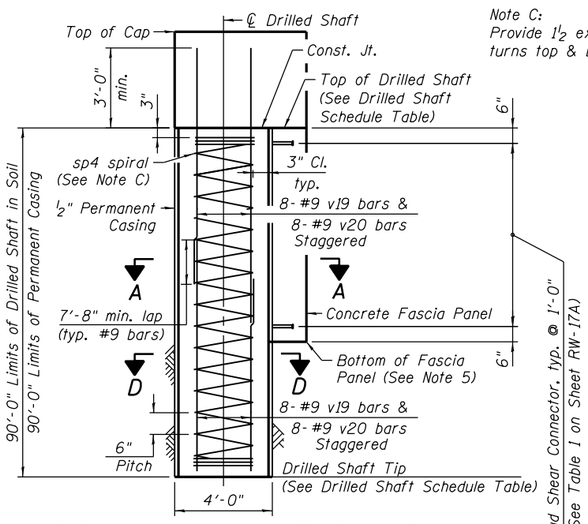


TYPICAL 7'-0" ϕ SHAFT ELEVATION

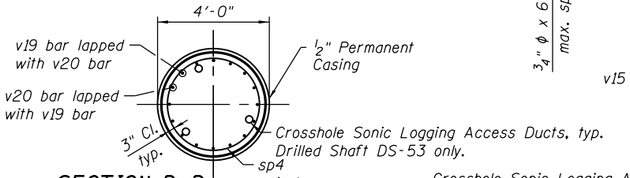


SECTION C-C

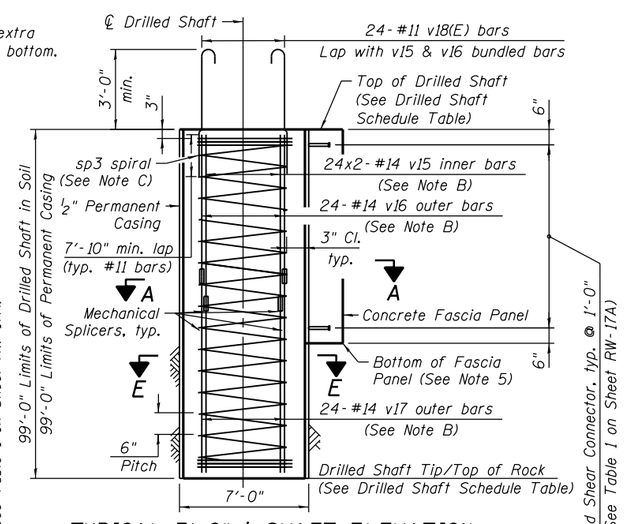
Note C:
Provide 1 1/2 extra turns top & bottom.



TYPICAL 4'-0" ϕ SHAFT ELEVATION

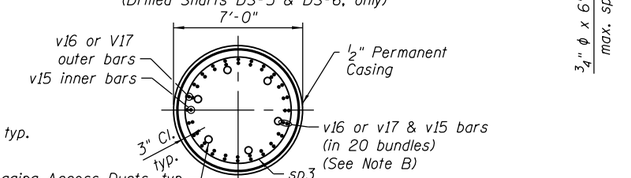


SECTION D-D



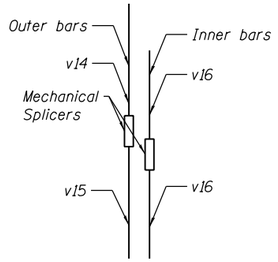
TYPICAL 7'-0" ϕ SHAFT ELEVATION

(Drilled Shafts DS-5 & DS-6, only)



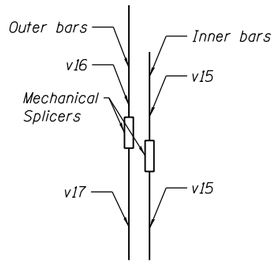
SECTION E-E

Drilled Shaft Schedule Table						
Shaft No.	Station	Offset (ft)	DS Dia.	Top of DS Elev. (ft)	DS Tip Elev. (ft)	DS Length
DS-1	7309+80.06	12.21 Rt.	7'-0"	593.44	503.44	90'-0"
DS-2	7309+89.80	12.21 Rt.	7'-0"	593.44	503.44	90'-0"
DS-3	7309+99.49	12.21 Rt.	7'-0"	593.44	503.44	90'-0"
DS-4	7310+09.71	12.21 Rt.	7'-0"	593.44	503.44	90'-0"
DS-5	7310+19.93	12.21 Rt.	7'-0"	591.44	492.44	99'-0"
DS-6	7310+30.15	12.21 Rt.	7'-0"	591.44	492.44	99'-0"
DS-7	7310+40.38	12.21 Rt.	7'-0"	591.44	501.44	90'-0"
DS-8	7310+50.60	12.21 Rt.	7'-0"	591.44	501.44	90'-0"
DS-9	7310+60.82	12.21 Rt.	7'-0"	591.44	501.44	90'-0"
DS-10	7310+70.36	12.21 Rt.	7'-0"	591.44	501.44	90'-0"
DS-11	7310+79.91	12.21 Rt.	7'-0"	591.44	501.44	90'-0"
DS-12	7310+99.06	12.21 Rt.	7'-0"	591.44	501.44	90'-0"
DS-13	7311+10.56	12.21 Rt.	7'-0"	591.44	501.44	90'-0"
DS-14	7311+22.06	12.21 Rt.	7'-0"	591.44	501.44	90'-0"
DS-15	7311+32.20	11.66 Rt.	6'-0"	589.43	499.43	90'-0"
DS-16	7311+42.20	11.37 Rt.	6'-0"	589.43	499.43	90'-0"
DS-17	7311+51.90	11.07 Rt.	6'-0"	589.43	499.43	90'-0"
DS-18	7311+62.19	10.77 Rt.	6'-0"	589.43	499.43	90'-0"
DS-19	7311+71.91	10.48 Rt.	6'-0"	589.43	499.43	90'-0"
DS-20	7311+81.91	10.18 Rt.	6'-0"	589.43	499.43	90'-0"
DS-21	7311+91.92	9.88 Rt.	6'-0"	589.43	499.43	90'-0"
DS-22	7312+01.92	9.59 Rt.	6'-0"	589.43	499.43	90'-0"
DS-23	7312+11.92	9.29 Rt.	6'-0"	589.43	499.43	90'-0"
DS-24	7312+21.93	9.00 Rt.	6'-0"	589.43	499.43	90'-0"
DS-25	7312+31.18	8.72 Rt.	6'-0"	589.43	499.43	90'-0"
DS-26	7312+40.44	8.45 Rt.	6'-0"	589.43	499.43	90'-0"
DS-27	7312+49.69	8.17 Rt.	6'-0"	589.43	499.43	90'-0"
DS-28	7312+58.70	8.41 Rt.	7'-0"	589.43	499.43	90'-0"
DS-29	7312+77.57	8.21 Rt.	7'-0"	589.43	499.43	90'-0"
DS-30	7312+85.50	7.71 Rt.	6'-0"	589.43	499.43	90'-0"
DS-31	7312+93.68	7.71 Rt.	6'-0"	589.43	499.43	90'-0"
DS-32	7313+01.85	7.71 Rt.	6'-0"	589.43	499.43	90'-0"
DS-33	7313+11.77	7.71 Rt.	6'-0"	589.43	499.43	90'-0"
DS-34	7313+21.68	7.71 Rt.	6'-0"	589.43	499.43	90'-0"
DS-35	7313+31.59	7.71 Rt.	6'-0"	589.43	499.43	90'-0"
DS-36	7313+41.50	7.71 Rt.	6'-0"	589.43	499.43	90'-0"
DS-37	7313+51.41	7.71 Rt.	6'-0"	589.43	499.43	90'-0"
DS-38	7313+61.33	7.71 Rt.	6'-0"	589.43	499.43	90'-0"
DS-39	7313+71.24	7.71 Rt.	6'-0"	589.43	499.43	90'-0"
DS-40	7313+81.15	7.71 Rt.	6'-0"	589.43	499.43	90'-0"
DS-41	7313+91.13	7.71 Rt.	6'-0"	589.43	499.43	90'-0"
DS-42	7314+01.13	7.71 Rt.	6'-0"	588.93	498.93	90'-0"
DS-43	7314+07.34	6.71 Rt.	4'-0"	588.93	498.93	90'-0"
DS-44	7314+12.67	6.71 Rt.	4'-0"	588.93	498.93	90'-0"
DS-45	7314+18.00	6.71 Rt.	4'-0"	588.93	498.93	90'-0"
DS-46	7314+23.34	6.71 Rt.	4'-0"	588.93	498.93	90'-0"
DS-47	7314+28.67	6.71 Rt.	4'-0"	588.93	498.93	90'-0"
DS-48	7314+34.00	6.71 Rt.	4'-0"	588.93	498.93	90'-0"
DS-49	7314+39.34	6.71 Rt.	4'-0"	588.93	498.93	90'-0"
DS-50	7314+44.67	6.71 Rt.	4'-0"	588.93	498.93	90'-0"
DS-51	7314+49.75	6.71 Rt.	4'-0"	588.93	498.93	90'-0"
DS-52	7314+54.84	6.71 Rt.	4'-0"	588.93	498.93	90'-0"
DS-53	7314+59.92	6.71 Rt.	4'-0"	588.93	498.93	90'-0"
DS-54	7314+65.00	6.71 Rt.	4'-0"	588.93	498.93	90'-0"
DS-55	7314+71.13	7.71 Rt.	6'-0"	588.93	498.93	90'-0"
DS-56	7314+81.13	7.71 Rt.	6'-0"	588.93	498.93	90'-0"
DS-57	7314+91.13	7.71 Rt.	6'-0"	588.93	498.93	90'-0"
DS-58	7315+01.13	7.71 Rt.	6'-0"	588.93	498.93	90'-0"
DS-59	7315+11.21	7.71 Rt.	6'-0"	588.93	498.93	90'-0"
DS-60	7315+21.31	7.71 Rt.	6'-0"	588.93	498.93	90'-0"
DS-61	7315+31.41	7.71 Rt.	6'-0"	588.93	498.93	90'-0"
DS-62	7315+41.51	7.71 Rt.	6'-0"	588.93	498.93	90'-0"



Bundled Bars v14, v15 & v16

Note A: Bundle v14 & v15 outer bars with v16 inner bars.



Bundled Bars v15, v16 & v17

Note B: Bundle v16 & v17 outer bars with v15 inner bars.

NOTES

1. When splicing spiral reinforcement is necessary, the spiral shall be provided with 1 1/2 extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4 or shall both terminate with a 135° standard hook.
2. Concrete Fascia Panel reinforcement not shown for clarity. See Sheet RW-17A for Section A-A.
3. The quantities and detailing are based on the estimated elevations shown on the plans. The actual elevations may differ at each shaft and corresponding adjustments shall be made to the drilled shaft and reinforcement quantities and payment limits.
4. Stations and offsets are measured along proposed ℄ EB Taylor Exit Ramp.
5. For Wall Elevations & Typical Section, see Sheet RW-04.
6. For Bill of Material, see Sheet RW-18.
7. Contractor to use Mechanical Splicers in Drilled Shafts that will fit between spirals.
8. See approved list of Mechanical Splicers for alternatives.
9. Perform Crosshole Sonic Logging Testing on Drilled Shafts DS-5, DS-15, DS-41 and DS-53.

AECOM

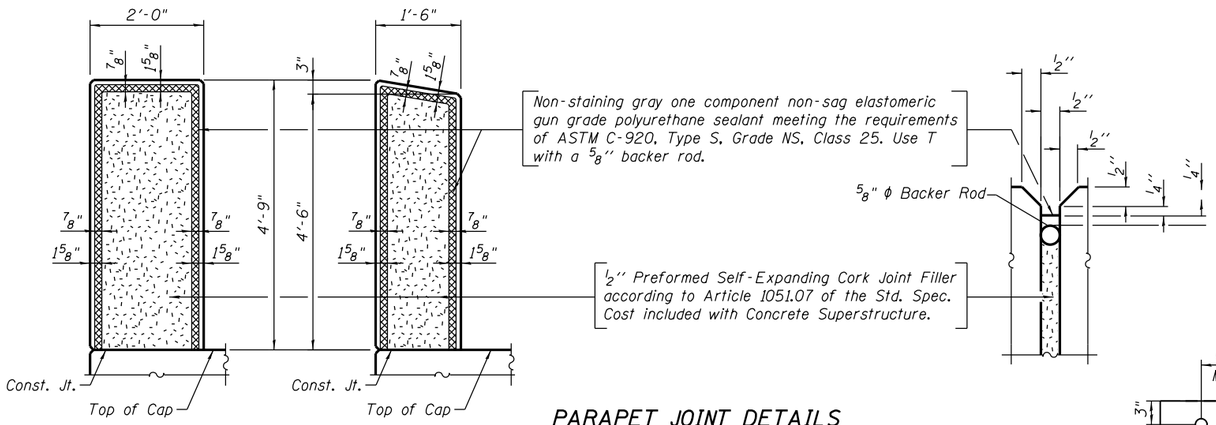
USER NAME = dabezicd	DESIGNED - DD	REVISED	
	CHECKED - ATB	REVISED	
PLOT SCALE = N.T.S.	DRAWN - AV	REVISED	
PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

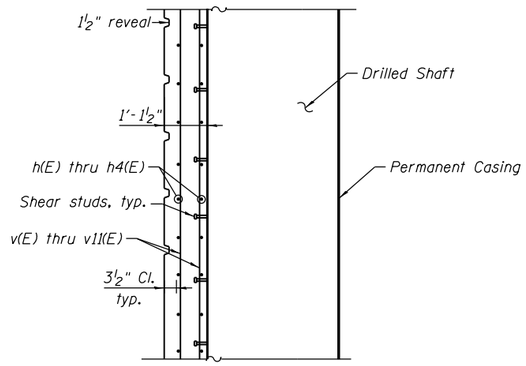
RETAINING WALL DETAILS - I
STRUCTURE NO. 016-1729
SHEET NO. RW-17 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-1	COOK	275	180
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		

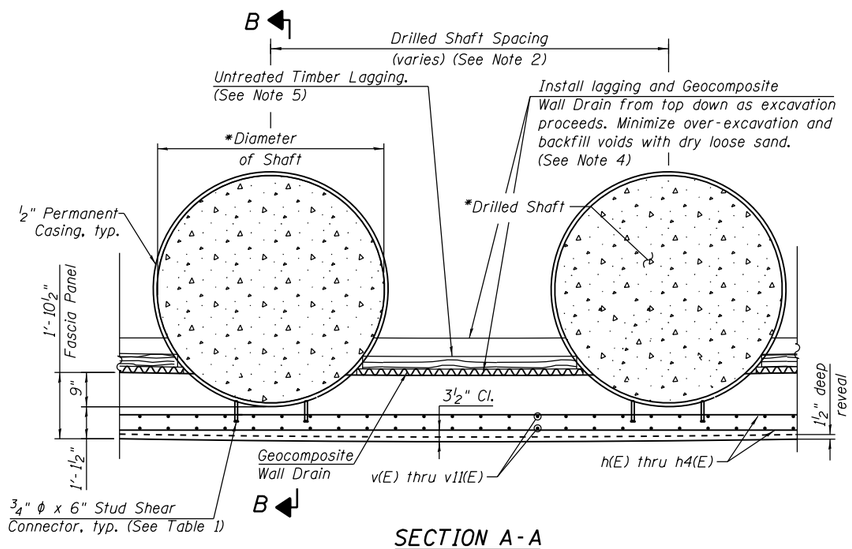
0161729-62A74-RW17-PE



PARAPET JOINT DETAILS



SECTION B-B

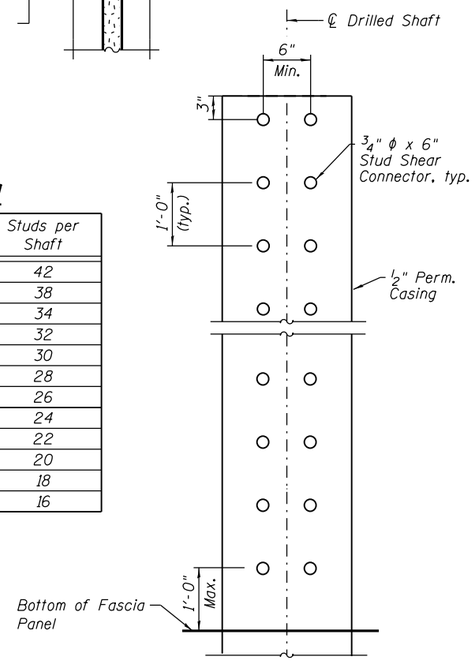


SECTION A-A

(Shaft Reinforcement not shown for clarity)

TABLE 1

Shaft No.	Studs per Shaft
DS-1 thru DS-4	42
DS-5 thru DS-14	38
DS-15 and DS-16	34
DS-17 thru DS-26	32
DS-27 thru DS-32	30
DS-33 thru DS-37	28
DS-38 thru DS-41	26
DS-42 thru DS-45	24
DS-46 thru DS-52	22
DS-53 thru DS-57	20
DS-58 thru DS-60	18
DS-61 and DS-62	16

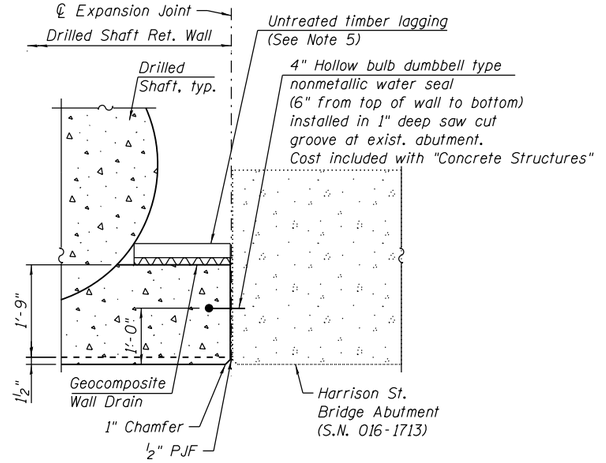


STUD SHEAR CONNECTOR DETAIL

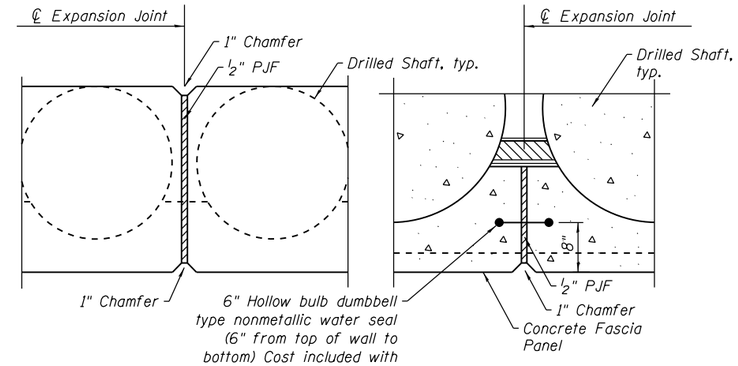
NOTES:

1. For Wall Elevations & Typical Section, see Sheet RW-04.
2. See Sheet RW-07 thru Sheet RW-13 for Drilled Shaft spacing.
3. The Geocomposite Wall Drain shall be as per Section 591 of the Standard Specifications.
4. Cost of over-excavation and backfill sand included with Concrete Structures. Cost of lagging and Geocomposite Wall Drain included in pay item Untreated Timber Lagging and Geocomposite Wall Drain respectively.
5. The Contractor is responsible for the design and performance of the lagging system. Max. lateral deflection of the lagging system shall be limited to 1 inch using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi, until the concrete facing is installed. The Contractor shall submit design calculations and details prepared by an Illinois Licensed Structural Engineer for the attachment of the lagging to the shaft for approval by the Engineer. Alternative equivalent systems may be submitted for approval by the Engineer.

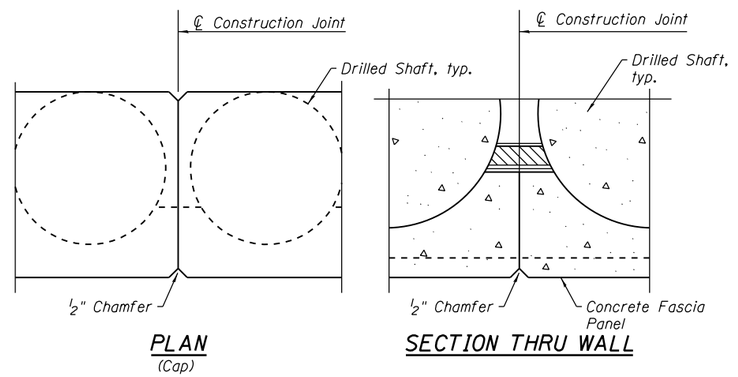
*See Drilled Shaft Schedule Table on Sheet RW-17.



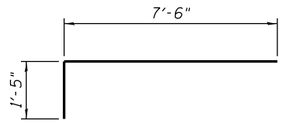
EXPANSION JOINT DETAILS AT HARRISON ST. BRIDGE ABUTMENT



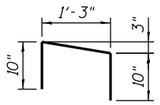
EXPANSION JOINT DETAILS



CONSTRUCTION JOINT DETAILS



BAR d(E)



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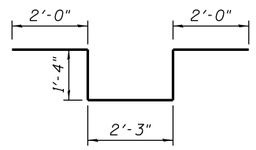

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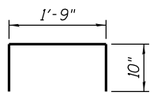

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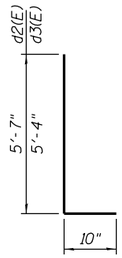
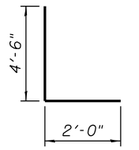


BAR d2(E) & d3(E)



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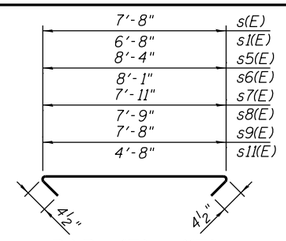

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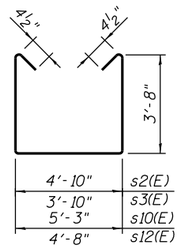

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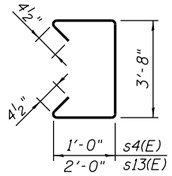

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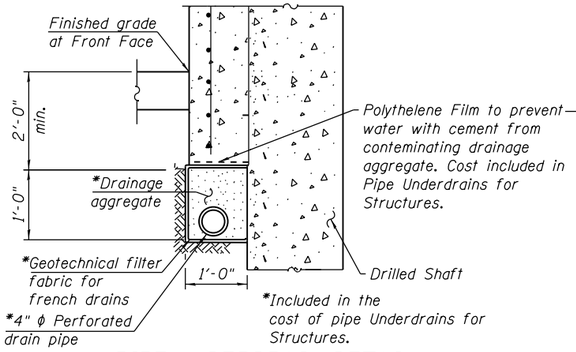
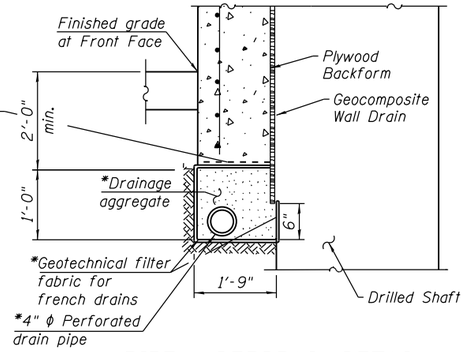
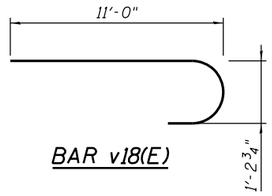


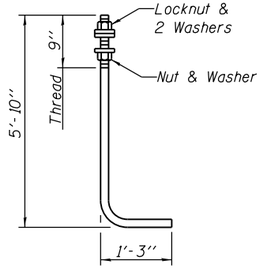
PIPE UNDERDRAIN DETAIL
(At Drilled Shaft)
(Roadway Barrier is not shown for clarity)



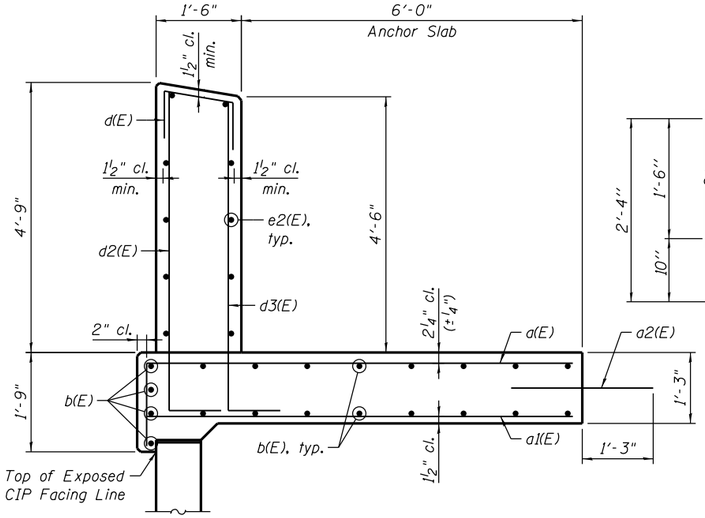
PIPE UNDERDRAIN DETAIL
(Between Drilled Shaft)
(Roadway barrier is not shown for clarity)



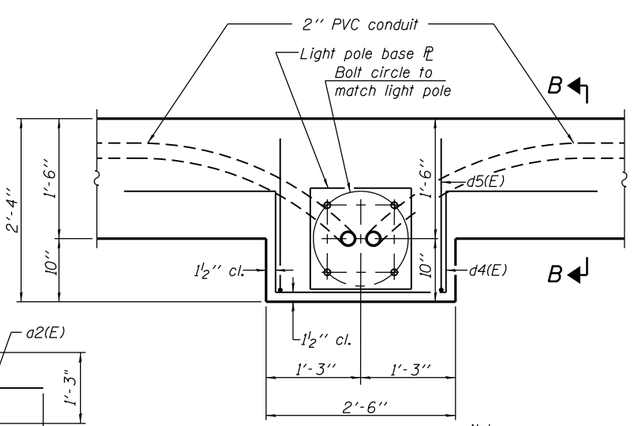
BAR v18(E)



ANCHOR ROD
Diameter as specified for light poles.
(ASTM F 1554 Grade 105)
Full length hot dipped galvanized

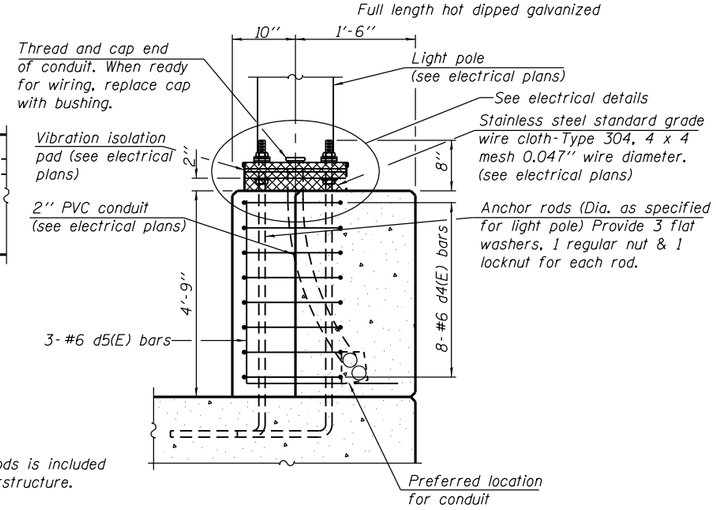


SECTION A-A



PLAN

Note:
Cost of anchor rods is included with Concrete Superstructure.



SECTION B-B

NOTES:

1. Protective Coat is applied to vertical and top faces of Parapet and to exposed faces of MSE Coping.

** Length is height of spiral.

*** Cut p(E) bars in field to fit.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	171	#5	8'-11"	
a1(E)	86	#5	7'-6"	
a2(E)	34	#8	2'-6"	
b(E)	60	#5	30'-7"	
d(E)	401	#5	3'-0"	
d1(E)	297	#5	3'-5"	
d2(E)	995	#5	6'-5"	
d3(E)	401	#5	6'-2"	
d4(E)	24	#6	8'-11"	
d5(E)	9	#6	6'-6"	
e(E)	10	#4	39'-5"	
e1(E)	170	#4	31'-10"	
e2(E)	30	#4	30'-1"	

BILL OF MATERIAL CONTINUED

	h(E)	10	#6	39'-5"	
	h1(E)	74	#6	37'-5"	
	h2(E)	588	#6	32'-9"	
	h3(E)	420	#8	34'-8"	
	h4(E)	74	#6	19'-8"	
***	p(E)	24	#6	42'-0"	
	p1(E)	230	#6	33'-0"	
	p2(E)	5	#10	26'-8"	
	p3(E)	138	#10	37'-1"	
	s(E)	132	#4	8'-5"	
	s1(E)	341	#4	7'-5"	
	s2(E)	264	#4	12'-11"	
	s3(E)	682	#4	11'-11"	
	s4(E)	28	#4	6'-5"	
	s5(E)	1	#4	9'-1"	
	s6(E)	1	#4	8'-10"	
	s7(E)	1	#4	8'-8"	
	s8(E)	1	#4	8'-6"	
	s9(E)	1	#4	8'-5"	
	s10(E)	10	#4	13'-4"	
	s11(E)	93	#4	5'-5"	
	s12(E)	93	#4	12'-9"	
	s13(E)	30	#4	8'-5"	
**	sp	22	#6	79'-6"	
**	sp1	34	#6	89'-6"	
**	sp2	14	#6	89'-6"	
**	sp3	2	#6	99'-6"	
**	sp4	12	#6	89'-6"	
	v(E)	6	#5	1'-9"	
	v1(E)	1,174	#5	7'-6"	
	v2(E)	78	#5	15'-11"	
	v3(E)	228	#5	13'-8"	
	v4(E)	310	#5	11'-9"	
	v5(E)	62	#5	10'-8"	
	v6(E)	62	#5	10'-0"	
	v7(E)	62	#5	9'-2"	
	v8(E)	62	#5	8'-3"	
	v9(E)	62	#5	6'-9"	
	v10(E)	62	#5	5'-10"	
	v11(E)	186	#5	5'-0"	
	v12	264	#9	40'-4"	
	v13	264	#9	47'-0"	
	v14	1,232	#14	43'-6"	
	v15	1,328	#14	49'-4"	
	v16	608	#14	44'-10"	
	v17	48	#14	53'-10"	
	v18(E)	48	#11	12'-7"	
	v19	192	#14	47'-4"	
	v20	192	#14	53'-2"	

Structure Excavation	Cu. Yd.	1,987.0
Concrete Structures	Cu. Yd.	1,155.9
Concrete Superstructure	Cu. Yd.	226.7
Protective Coat	Sq. Yd.	814
Stud Shear Connector	Each	1,796
Reinforcement Bars	Pound	1,697,280
Reinforcement Bars, Epoxy Coated	Pound	167,750
Mechanical Splicers	Each	1,512
Permanent Casing	Foot	5,580
Drilled Shaft In Soil	Cu. Yd.	5,759.6
Untreated Timber Lagging	Sq. Ft.	4,581
Concrete Sealer	Sq. Ft.	10,078
Geocomposite Wall Drain	Sq. Yd.	514
Lightweight Cellular Concrete Fill	Cu. Yd.	739.0
Crosshole Sonic Logging Testing	Each	6
Crosshole Sonic Logging Access Ducts	Foot	540
Granural Backfill for Structures	Cu. Yd.	208.0
Pipe Underdrain for Structures 4"	Foot	570

AECOM

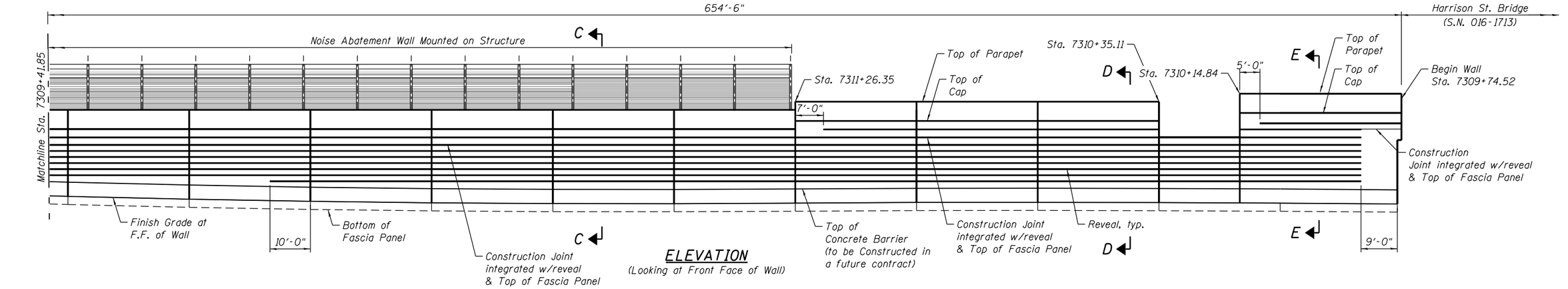
USER NAME = dabezicd	DESIGNED - DD	REVISED	
	CHECKED - ATB	REVISED	
PLOT SCALE = N.T.S.	DRAWN - GF	REVISED	
PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

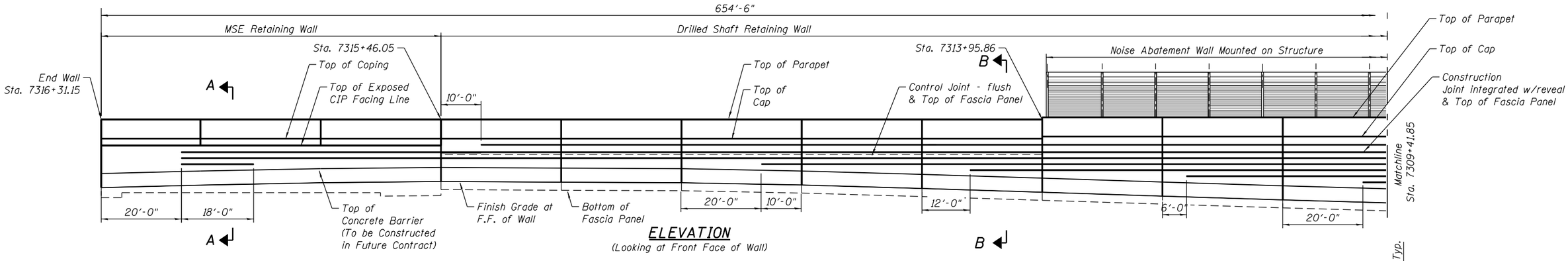
RETAINING WALL DETAILS – III
STRUCTURE NO. 016–1729
SHEET NO. RW-18 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-1	COOK	275	181
		CONTRACT NO. 62A74		
		ILLINOIS FED. AID PROJECT		

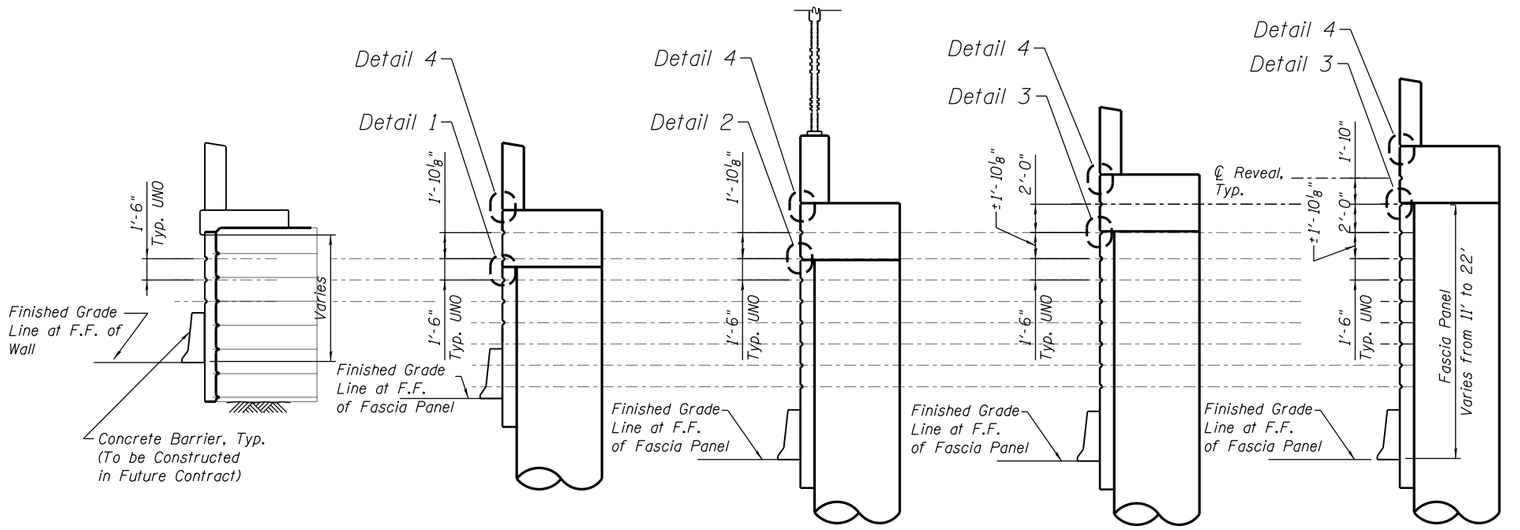
0161729-62A74-RW18-PE



ELEVATION
(Looking at Front Face of Wall)



ELEVATION
(Looking at Front Face of Wall)



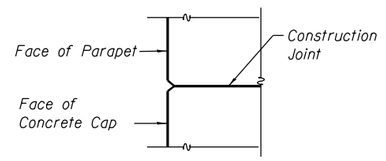
SECTION A-A

SECTION B-B

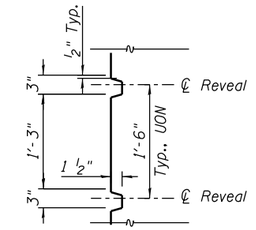
SECTION C-C

SECTION D-D

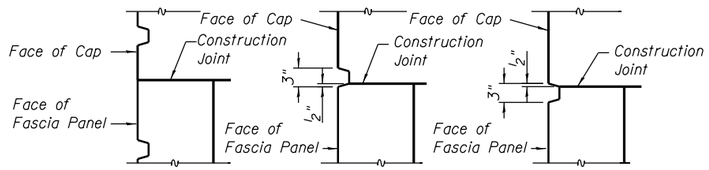
SECTION E-E



DETAIL 4
(Construction Joint at top of cap - 45°V groove, typ.)



TYPICAL REVEAL DETAIL



DETAIL 1
(Construction Joint at bottom of cap - Flush)

DETAIL 2
(Construction Joint at bottom of cap - Integrated in reveal)

DETAIL 3
(Construction Joint at bottom of cap - Integrated in reveal)

NOTES:

Reveals in Fascia Panel of Drilled Shaft Wall will not be paid separately and will be included in the cost of the pay item "Concrete Structures".

AECOM

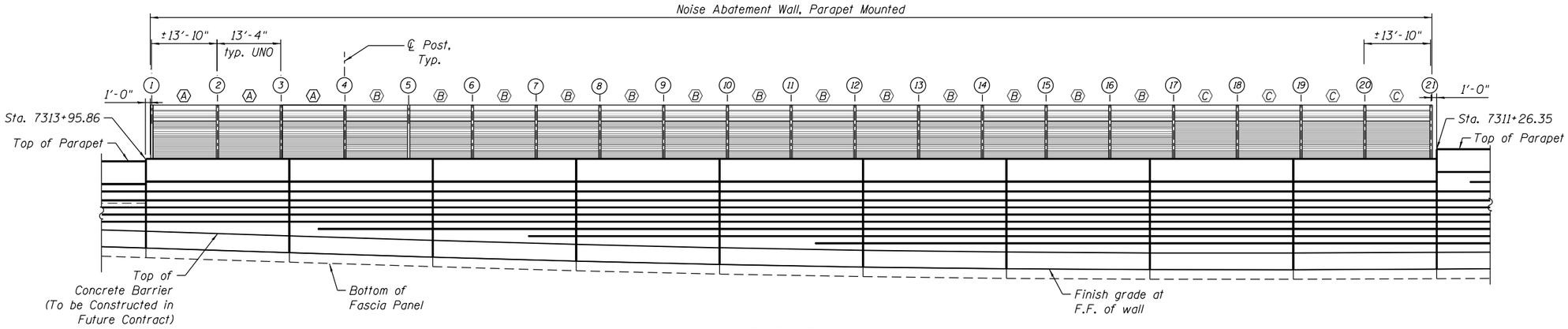
USER NAME = dabezicd	DESIGNED - MR	REVISED
	CHECKED - DD	REVISED
PLOT SCALE = N.T.S.	DRAWN - MR	REVISED
PLOT DATE = 6/29/2017	CHECKED - DD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

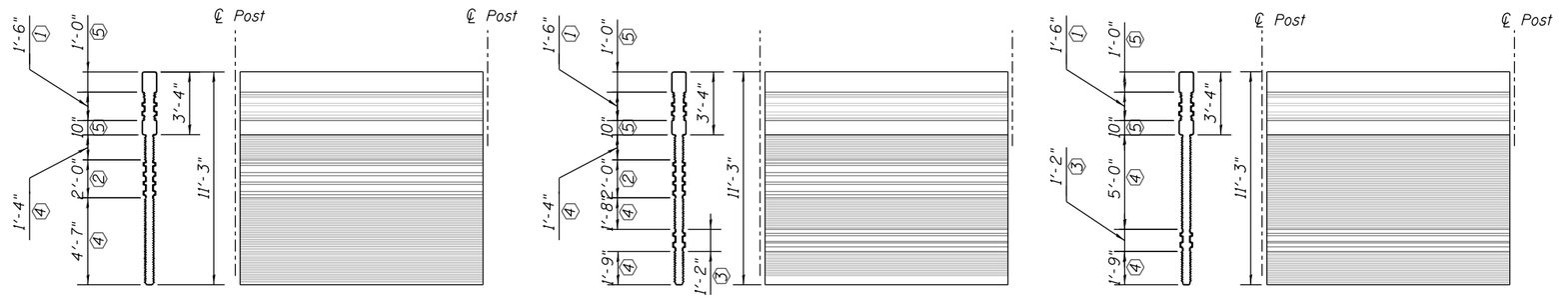
ARCHITECTURAL DETAILS
STRUCTURE NO. 016-1729
SHEET NO. RW-19 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-1	COOK	275	182
		CONTRACT NO. 62A74		
ILLINOIS	FED. AID PROJECT			

016I729-62A74-RW19-ARCH.dgn



ELEVATION
(Looking at Front Face of Wall)

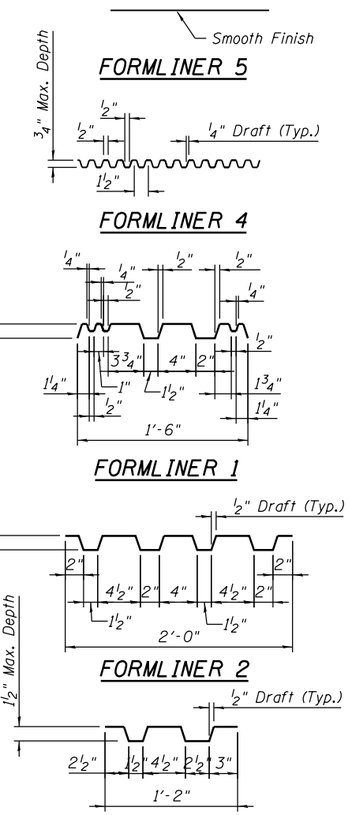


PANEL A

PANEL B

PANEL C

PRECAST PANEL TYPE DETAILS



LEGEND:

Ⓐ Ⓑ Ⓒ	Precast Panel Type Based on Formliner Layout
① ② ③ ④ ⑤	Formliner Detail

NOTES:

1. Textured formliner for precast panels will not be paid separately and will be included in the cost of the pay item "Noise Abatement Wall, Structure Mounted".

0161729-62A74-RW20-Noise Wall-ARCH.dgn

AECOM

USER NAME = dabezicd	DESIGNED - MR	REVISED
	CHECKED - DD	REVISED
PLOT SCALE = N.T.S.	DRAWN - MR	REVISED
PLOT DATE = 6/29/2017	CHECKED - DD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARCHITECTURAL DETAILS NOISE ABATMENT WALL
STRUCTURE NO. 016-1729
SHEET NO. RW-20 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	183
		CONTRACT NO. 62A74		
ILLINOIS	FED. AID PROJECT			

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 10-PZ-01

WEI Job No.: 1100-04-01

Client: AECOM
Project: Circle Interchange Reconstruction
Location: Section 17, T39N, R14E of 3rd PM

Datum: NAVD 88
Elevation: 592.93 ft
North: 1897019.14 ft
East: 1171462.69 ft
Station: 7315+23.85
Offset: 4.45 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--Drilled without sampling--						
		Piezometer Data: --Installed in Dec. 11, 2014 --Bentonite Seal 66 to 71 feet --Top of Sand Pack at 71 feet --Top of Screen at 73 feet --Screen Length 20 feet --Bottom of Screen at 93 feet						

GENERAL NOTES

Begin Drilling: 12-10-2014 Complete Drilling: 12-11-2014
Drilling Contractor: Wang Testing Services Drill Rig: B-57 TMR [100%]
Driller: P&P Logger: A. Happel Checked by: C. Marin
Drilling Method: 4.25" HSA, monitoring water well; pizometer installed on 12/11/2014

WATER LEVEL DATA

While Drilling: 68.00 ft
At Completion of Drilling: 74.00 ft
Time After Drilling: 24 hours
Depth to Water: 45.04 ft

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 1100401.GPJ WANGENG.GDT 6/13/17

Wang Engineering
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1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 10-PZ-01

WEI Job No.: 1100-04-01

Client: AECOM
Project: Circle Interchange Reconstruction
Location: Section 17, T39N, R14E of 3rd PM

Datum: NAVD 88
Elevation: 592.93 ft
North: 1897019.14 ft
East: 1171462.69 ft
Station: 7315+23.85
Offset: 4.45 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--piezometer stabilized water level reading -- --reading during well development (12/15/2014) = 43.85 feet bgs-- --reading date: 12/26/2014 = 43.72 feet bgs--						
	521.2	Very dense, gray SILTY LOAM --Wet--						
				1	18 27 24	1.00 P	18	
	516.2	Very dense, gray SANDY LOAM, trace to little gravel --Saturated--						
				2	7 14 16	NP	20	
		Piezometer Data: --Installed in Dec. 11, 2014 --Bentonite Seal 66 to 71 feet --Top of Sand Pack at 71 feet --Top of Screen at 73 feet --Screen Length 20 feet --Bottom of Screen at 93 feet						

GENERAL NOTES

Begin Drilling: 12-10-2014 Complete Drilling: 12-11-2014
Drilling Contractor: Wang Testing Services Drill Rig: B-57 TMR [100%]
Driller: P&P Logger: A. Happel Checked by: C. Marin
Drilling Method: 4.25" HSA, monitoring water well; pizometer installed on 12/11/2014

WATER LEVEL DATA

While Drilling: 68.00 ft
At Completion of Drilling: 74.00 ft
Time After Drilling: 24 hours
Depth to Water: 45.04 ft

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 1100401.GPJ WANGENG.GDT 6/13/17

0161729-62A74-RW21-Boring

AECOM	USER NAME = keserovicm	DESIGNED - DD	REVISED	
		CHECKED - ATB	REVISED	
	PLOT SCALE = N.T.S.	DRAWN - GF	REVISED	
	PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – I
STRUCTURE NO. 016–1729
SHEET NO. RW-21 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	184
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 10-PZ-01

WEI Job No.: 1100-04-01

Client: AECOM
Project: Circle Interchange Reconstruction
Location: Section 17, T39N, R14E of 3rd PM

Datum: NAVD 88
Elevation: 592.93 ft
North: 1897019.14 ft
East: 1171462.69 ft
Station: 7315+23.85
Offset: 4.45 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		3	50/6	NP	16
	506.2	Very dense, gray SILTY LOAM, trace gravel						
					4	50/3	4.50 P	9
		--Moist--	90					
					5	50/5	NP	11
		--Wet--	95					
	497.9	--HARD DRILLING--						
		Boring terminated at 95.00 ft	100					

GENERAL NOTES

Begin Drilling: 12-10-2014 Complete Drilling: 12-11-2014
Drilling Contractor: Wang Testing Services Drill Rig: B-57 TMR [100%]
Driller: P&P Logger: A. Happel Checked by: C. Marin
Drilling Method: 4.25" HSA, monitoring water well; pizometer installed on 12/11/2014

WATER LEVEL DATA

While Drilling: 68.00 ft
At Completion of Drilling: 74.00 ft
Time After Drilling: 24 hours
Depth to Water: 45.04 ft

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

Wang Engineering
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1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9928

BORING LOG 10-RWB-01

WEI Job No.: 1100-04-01

Client: AECOM
Project: Circle Interchange Reconstruction
Location: Section 17, T39N, R14E of 3rd PM

Datum: NAVD 88
Elevation: 593.61 ft
North: 1897453.61 ft
East: 1171289.67 ft
Station: 7310+10.47
Offset: 64.4358 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.3	4-inch thick, dark brown SILTY LOAM						
	592.4	--TOPSOIL--						
		Hard, brown SILTY CLAY LOAM, trace gravel and brick fragments			1	9 4 7	NP	13
		--FILL--	5					
	590.6	Medium dense, brown SILTY LOAM, trace gravel and brick fragments			2	5 5 5	NP	12
		--FILL--						
		Loose to medium dense, brown, fine SAND			3	3 3 2	NP	14
		--FILL--	10					
					4	3 2 2	NP	19
	583.9	Stiff to hard, gray brown and gray SILTY CLAY, trace gravel						
					5	3 4 5	2.54 B	18
			15		6	3 3 3	1.07 B	20
	578.1	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			7	0 0 1	0.41 B	27
			20		8	1 2 1	0.33 B	18
			25		9	2 3 3	0.66 B	15
					10	0 1 2	0.50 N/6	
					11	1 1 1	0.16 B	26
		--L_L(%)=33, P_L(%)=17-- --%Gravel=3.4-- --%Sand=14.9-- --%Silt=48.7-- --%Clay=32.9-- --A-6 (12)--	30		12	0 1 1	0.16 B	25
			35		13	0 0 0	0.16 B	25
			40		14	0 0 0	0.25 B	25

GENERAL NOTES

Begin Drilling: 02-26-2014 Complete Drilling: 03-03-2014
Drilling Contractor: Wang Testing Services Drill Rig: CME-55 TMR
Driller: R&K Logger: D. Kolpacki Checked by: C. Marin
Drilling Method: 2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 8.00 ft
At Completion of Drilling: 90.00 ft
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/12/16

0161729-62A74-RW22-Boring

AECOM	USER NAME = keserovicm	DESIGNED - DD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - ATB	REVISED	
	PLOT SCALE = N.T.S.	DRAWN - GF	REVISED	
	PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED	

BORING LOGS – II
STRUCTURE NO. 016-1729
SHEET NO. RW-22 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	185
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9928

BORING LOG 10-RWB-01

WEI Job No.: 1100-04-01

Client: AECOM
Project: Circle Interchange Reconstruction
Location: Section 17, T39N, R14E of 3rd PM

Datum: NAVD 88
Elevation: 593.61 ft
North: 1897453.61 ft
East: 1171289.67 ft
Station: 7310+10.47
Offset: 64.4358 RT

Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Elevation (ft)	SOIL AND ROCK DESCRIPTION
						541.9	Hard, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel
45		15	0 2 2	0.25 B	26		
50		16	0 0 2	0.33 B	26		
55		17	6 8 12	5.08 B	21		
60		18	14 15 24	6.50 N/6			
						521.9	Loose, gray SILTY LOAM, trace gravel
65		19	10 14 24	5.74 B	19		
70		20	11 11 15	> 4.50	21		
75		21	4 4 5	NP	21		--Saturated--
						516.9	Hard, gray SILTY CLAY LOAM, trace gravel
80		22	17 19 29	9.84 S	13		

GENERAL NOTES

Begin Drilling: 02-26-2014 Complete Drilling: 03-03-2014
Drilling Contractor: Wang Testing Services Drill Rig: CME-55 TMR
Driller: R&K Logger: D. Kolpacki Checked by: C. Marin
Drilling Method: 2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 8.00 ft
At Completion of Drilling: 90.00 ft
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/12/16

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9928

BORING LOG 10-RWB-01

WEI Job No.: 1100-04-01

Client: AECOM
Project: Circle Interchange Reconstruction
Location: Section 17, T39N, R14E of 3rd PM

Datum: NAVD 88
Elevation: 593.61 ft
North: 1897453.61 ft
East: 1171289.67 ft
Station: 7310+10.47
Offset: 64.4358 RT

Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Elevation (ft)	SOIL AND ROCK DESCRIPTION
						506.9	Very dense, gray GRAVELLY SILTY LOAM --Saturated--
85		23	17 22 40	9.76 S	14		
90		24	15 21 50/3	NP	23		
							--HARD DRILLING-- --Possible Cobbles--
						501.9	Very dense, gray GRAVELLY SAND --Saturated--
95		25	50/4	NP	15		
						496.9	--HARD DRILLING-- --Possible Cobbles-- Very dense, gray SILTY LOAM, trace gravel
100		26	50/5	NP	13		
105		1	C O R E			492.1	Strong, light gray, fair rock mass quality, bedded fresh DOLOSTONE, up to 10-inch beds, 1- to 8-inch spaced joints, horizontal and vertical joints with none to more than 0.2-inch infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity. --Run 1 - RECOVERY=100%-- --RQD=53%--
110							
115							
120						482.1	Boring terminated at 111.50 ft

GENERAL NOTES

Begin Drilling: 02-26-2014 Complete Drilling: 03-03-2014
Drilling Contractor: Wang Testing Services Drill Rig: CME-55 TMR
Driller: R&K Logger: D. Kolpacki Checked by: C. Marin
Drilling Method: 2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 8.00 ft
At Completion of Drilling: 90.00 ft
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 8/12/16

0161729-62A74-RW23-Boring

AECOM	USER NAME = keserovicm	DESIGNED - DD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS – III STRUCTURE NO. 016–1729
		CHECKED - ATB	REVISED		SHEET NO. RW-23 OF RW-33 SHEETS
	PLOT SCALE = N.T.S.	DRAWN - GF	REVISED		
	PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	186
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

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BORING LOG 10-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.54 ft
North: 1897333.82 ft
East: 1171374.94 ft
Station: 7311+57.37
Offset: 11.56 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	593.0	6-inch thick, black and brown SILTY LOAM --TOPSOIL--						
		Loose to medium dense, brown, fine SAND --FILL--			1	3 5 6	NP	8
			5		2	3 4 7	NP	11
					3	8 7 6	NP	14
			10		4	4 4 4	NP	21
	583.0	Stiff to very stiff, gray SILTY CLAY LOAM, trace gravel			5	3 5 8	3.69 B	25
			15		6	4 6 5	2.30 B	16
					7	3 3 5	1.48 B	21
	575.5	Soft to stiff, gray CLAY to SILTY CLAY, trace gravel	20		8	2 2 3	0.66 B	28
			25		9	1 3 3	1.07 B	23
					10	2 2 2	0.49 B	28
					11	1 2 2	0.41 B	24
			30		12	1 2 2	0.67 N/6	
					13	0 1 2	0.33 B	26
			35		14	1 2 2	0.49 B	23
			40					

GENERAL NOTES

Begin Drilling: **02-26-2014** Complete Drilling: **03-03-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **8.00 ft**
At Completion of Drilling: **mud at 7 ft**
Time After Drilling: **144 hours**
Depth to Water: **16.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

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BORING LOG 10-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.54 ft
North: 1897333.82 ft
East: 1171374.94 ft
Station: 7311+57.37
Offset: 11.56 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--disturbed sample--	45		15	1 1 2	0.25 P	21
		--disturbed sample--	50		16	2 2 3	0.25 P	26
	541.8	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel			17	11 11 17	5.66 B	15
		--L_L(%)=23, P_L(%)=15-- --%Gravel=6.7-- --%Sand=26.9--	55		18	14 24 29	4.50 P	12
		--%Silt=49.7-- --%Clay=16.7-- --A-4 (3)--	60		19	11 19 23	8.12 B	15
	526.8	Dense to very dense, gray SILTY LOAM, trace gravel --Moist--	65		20	14 16 20	NP	18
			70		21	23 25 39	NP	12
	516.8	Hard, gray SILTY CLAY LOAM, trace gravel	75		22	16 26 31	9.68 B	15
			80					

GENERAL NOTES

Begin Drilling: **02-26-2014** Complete Drilling: **03-03-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **B-57 TMR [100%]**
Driller: **P&P** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **8.00 ft**
At Completion of Drilling: **mud at 7 ft**
Time After Drilling: **144 hours**
Depth to Water: **16.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

0161729-62A74-RW24-Boring

AECOM

USER NAME = keserovicm	DESIGNED - DD	REVISED	
	CHECKED - ATB	REVISED	
PLOT SCALE = N.T.S.	DRAWN - GF	REVISED	
PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – IV
STRUCTURE NO. 016–1729
SHEET NO. RW-24 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	187
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

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Telephone: 630 953-9928
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BORING LOG 10-RWB-02

WEI Job No.: 1100-04-01

Client: AECOM
Project: Circle Interchange Reconstruction
Location: Section 17, T39N, R14E of 3rd PM

Datum: NAVD 88
Elevation: 593.54 ft
North: 1897333.82 ft
East: 1171374.94 ft
Station: 7311+57.37
Offset: 11.56 RT

Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Elevation (ft)	SOIL AND ROCK DESCRIPTION
						493.0	--DIFFICULT DRILLING-- --WEATHERED BEDROCK--
						491.5	Strong, light gray, very poor rock mass quality, bedded fresh DOLOSTONE, up to 8-inch beds, up to 4-inch spaced joints, horizontal and vertical joints with none to more than 0.2-inch greenish gray infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity.
85		23	12 19 26	NP	18	506.8	Very dense, gray SILT --Moist--
90		24	40 36 40	NP	19		
						501.8	Hard, gray SILTY CLAY LOAM, trace gravel
95		25	20 28 50/5	9.18 B	14		
						496.5	Very dense, gray GRAVELLY SILTY LOAM --Dry--
100		26	60/4	NP	10		

Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Elevation (ft)	SOIL AND ROCK DESCRIPTION
105		1	CORE				--Run 1 - RECOVERY=97%-- --RQD=8%--
110		2	CORE				--Run 2 - RECOVERY=87%-- --RQD=20%--
115						481.5	Boring terminated at 68.50 ft
120							

GENERAL NOTES

Begin Drilling: 02-26-2014 Complete Drilling: 03-03-2014
Drilling Contractor: Wang Testing Services Drill Rig: B-57 TMR [100%]
Driller: P&P Logger: F. Bozga Checked by: C. Marin
Drilling Method: 2.25" HSA to 15', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: 8.00 ft
At Completion of Drilling: mud at 7 ft
Time After Drilling: 144 hours
Depth to Water: 16.00 ft

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

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BORING LOG 10-RWB-03

WEI Job No.: 1100-04-01

Client: AECOM
Project: Circle Interchange Reconstruction
Location: Section 17, T39N, R14E of 3rd PM

Datum: NAVD 88
Elevation: 593.09 ft
North: 1897135.88 ft
East: 1171421.19 ft
Station: 7313+60.00
Offset: 3.91 RT

Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Elevation (ft)	SOIL AND ROCK DESCRIPTION
						592.2	11-inch thick, dark brown SILTY LOAM --TOPSOIL--
		1	16 9 10	NP	25		Medium dense, black and reddish brown SILTY LOAM, trace gravel --FILL--
5		2	5 7 10	NP	6	589.1	Loose to medium dense. brown SAND, trace gravel --FILL--
		3	2 2 2	NP	22		
		4	2 4 8	2.46 B	24	584.3	Stiff to very stiff, gray CLAY, trace gravel
10		5	4 4 5	2.46 B	28		
15		6	2 3 4	2.21 B	22		--L_L(%)=37, P_L(%)=19-- --%Gravel=2.0-- --%Sand=15.8-- --%Silt= 39.6-- --%Clay=42.5-- --A-6 (14)--
		7	3 4 5	1.72 B	29	575.1	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel
20		8	2 1 2	0.33 B	28		

Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
25		9	1 1 1	0.16 B	31
		10	1 2 2	0.16 B	29
		11	2 2 2	0.16 B	27
30		12	2 2 2	0.16 B	22
35		13	2 1 3	0.16 B	26
40		14	2 2 2	0.25 B	25

GENERAL NOTES

Begin Drilling: 02-21-2014 Complete Drilling: 02-25-2014
Drilling Contractor: Wang Testing Services Drill Rig: D-25 ATV [93%]
Driller: N&J Logger: A. Happel Checked by: C. Marin
Drilling Method: 2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: Rotary wash
At Completion of Drilling: mud in the borehole
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

0161729-62A74-RW25-Boring

AECOM	USER NAME = keserovicm	DESIGNED - DD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - ATB	REVISED	
	PLOT SCALE = N.T.S.	DRAWN - GF	REVISED	
	PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED	

BORING LOGS – V
STRUCTURE NO. 016–1729
SHEET NO. RW-25 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	188
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		

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BORING LOG 10-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.09 ft
North: 1897135.88 ft
East: 1171421.19 ft
Station: 7313+60.00
Offset: 3.91 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			45		15	2 3 4	0.16 B	24
	543.8							
		Hard, gray SILTY CLAY, trace gravel	50		16	3 5 6	0.90 B	26
			55		17	10 17 25	6.15 B	17
	534.1							
		Dense to very dense, gray, fine SAND and SILT laminations	60		18	16 28 34	NP	17
		--Moist to wet--	65		19	12 21 27	NP	22
		--L_L(%)=NP, P_L(%)=NP-- --%Gravel=0.1-- --%Sand=44.4-- --%Silt=51.6-- --%Clay=4.0-- --A-4 (0)--	70		20	16 21 31	NP	21
			75		21	21 20 25	NP	22
	514.4							
		Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	80		22	18 27 31	4.50 P	14

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

GENERAL NOTES

Begin Drilling: **02-21-2014** Complete Drilling: **02-25-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **N&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 10-RWB-03

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.09 ft
North: 1897135.88 ft
East: 1171421.19 ft
Station: 7313+60.00
Offset: 3.91 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
			85		23	20 27 46	4.92 S	14
	506.3							
		Very dense, gray SILTY LOAM, trace to little gravel --Damp to dry--	90		24	50/5"	NP	12
			95		25	50/5"	NP	14
		--HARD DRILLING--						
	495.6							
		Very dense, gray DOLOSTONE fragments -- WEATHERED BEDROCK--	100		26	50/1"	NP	11
		--DIFFICULT DRILLING--	105					
		--AUGER REFUSAL--						
	490.1							
		Boring terminated at 103.00 ft	110					
			115					
			120					

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

GENERAL NOTES

Begin Drilling: **02-21-2014** Complete Drilling: **02-25-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **N&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

0161729-62A74-RW26-Boring

AECOM	USER NAME = keserovicm	DESIGNED - DD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		CHECKED - ATB	REVISED	
	PLOT SCALE = N.T.S.	DRAWN - GF	REVISED	
	PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED	

BORING LOGS – VI
STRUCTURE NO. 016–1729
SHEET NO. RW-26 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	189
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

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BORING LOG 10-RWB-04

WEI Job No.: 1100-04-01

Client: AECOM
Project: Circle Interchange Reconstruction
Location: Section 17, T39N, R14E of 3rd PM

Datum: NAVD 88
Elevation: 593.40 ft
North: 1896930.29 ft
East: 1171484.09 ft
Station: 7315+75.12
Offset: 1.47 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	592.9	6-inch thick ASPHALT --PAVEMENT--						
		Dense, brown GRAVELLY LOAM --BASE COURSE--			1	29 29 20	NP	16
	590.4	Very loose to medium dense, brown, coarse SAND --Dry to saturated-- --FILL--	5		2	6 9 7	NP	4
					3	3 3 4	NP	16
			10		4	4 8 6	NP	6
					5	3 2 3	NP	7
			15		6	2 2 1	NP	15
	577.9	Medium dense, gray GRAVELLY SAND --Wet--			7	3 7 9	NP	8
	574.4	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace	20		8	10 3 2	0.33 B	22
		gravel	25		9	0 0 1	0.08 B	36
					10	1 1 2	0.25 P	17
					11	0 0 2	0.33 N/6	
			30		12	1 1 1	0.16 B	27
			35		13	0 0 2	< 0.25 P	26
			40		14	1 2 3	< 0.25 P	27

GENERAL NOTES

Begin Drilling: 03-10-2014 Complete Drilling: 03-13-2014
Drilling Contractor: Wang Testing Services Drill Rig: CME-55 TMR [85%]
Driller: P&N Logger: F. Bozga Checked by: C. Marin
Drilling Method: 2.25" SSA to 15', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 13.00 ft
At Completion of Drilling: ▼ mud in the borehole
Time After Drilling: 72 hours
Depth to Water: ▼ 35.00 ft

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

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Telephone: 630 953-9928
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BORING LOG 10-RWB-04

WEI Job No.: 1100-04-01

Client: AECOM
Project: Circle Interchange Reconstruction
Location: Section 17, T39N, R14E of 3rd PM

Datum: NAVD 88
Elevation: 593.40 ft
North: 1896930.29 ft
East: 1171484.09 ft
Station: 7315+75.12
Offset: 1.47 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--%Silt=51.5-- --%Clay=17.2-- --A-4 (4)--						
	531.7	Very stiff, gray SILTY CLAY LOAM, trace gravel						
	528.9	Dense to very dense, gray, medium to coarse SAND, trace gravel --Wet--	45		15	4 4 4	0.75 P	27
			50		16	1 3 6	0.57 B	26
	541.7	Hard, gray SILTY LOAM, trace gravel	55		17	15 50/3	6.15 S	14
		--L_L(%)=24, P_L(%)=14-- --%Gravel=4.5-- --%Sand=26.8--	60		18	18 19 27	7.71 B	13
			65		19	7 11 19	3.61 B	15
			70		20	14 22 20	NP	16
			75		21	16 17 36	NP	11
			80		22	16 18 20	NP	11

GENERAL NOTES

Begin Drilling: 03-10-2014 Complete Drilling: 03-13-2014
Drilling Contractor: Wang Testing Services Drill Rig: CME-55 TMR [85%]
Driller: P&N Logger: F. Bozga Checked by: C. Marin
Drilling Method: 2.25" SSA to 15', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: ▽ 13.00 ft
At Completion of Drilling: ▼ mud in the borehole
Time After Drilling: 72 hours
Depth to Water: ▼ 35.00 ft

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

0161729-62A74-RW27-Boring

AECOM

USER NAME = keserovicm	DESIGNED - DD	REVISED	
	CHECKED - ATB	REVISED	
PLOT SCALE = N.T.S.	DRAWN - GF	REVISED	
PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – VII
STRUCTURE NO. 016–1729
SHEET NO. RW-27 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-1	COOK	275	190
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

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Fax: 630 953-9938

BORING LOG 10-RWB-04

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.40 ft
North: 1896930.29 ft
East: 1171484.09 ft
Station: 7315+75.12
Offset: 1.47 RT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	--HARD DRILLING--						
	--Possible Cobbles--						
511.7	Very dense, gray GRAVELLY SAND						
	--Wet--			23	45 50/5	NP	10
		85					
	-HARD DRILLING up to 89.5 ft-			24	50/2	NP	
	--Possible Cobbles--						
503.9	Hard, gray SILTY LOAM, trace little gravel	90					
	--Dry--						
				25	70/5 > 4.50 P		9
		95					
	--HARD DRILLING at 97 ft--						
	--Possible Cobbles--						
496.4	--WEATHERED BEDROCK--						
	--HARD DRILLING--			26	75/3	NP	
		100					

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
492.4	Strong, light gray, fair rock mass quality, bedded fresh DOLOSTONE, up to 19-inch beds, 11-inch joint spacing, horizontal and vertical joints with none to more than 0.2-inch greenish gray infilling, hard joint wall, with stylolitic surfaces, and moderately vuggy porosity.	105	C O R E	1			
	--Run 1 - RECOVERY=96%--						
	--RQD=71%--						
482.4	Boring terminated at 111.00 ft	110					
		115					
		120					

GENERAL NOTES

Begin Drilling: **03-10-2014** Complete Drilling: **03-13-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **P&N** Logger: **F. Bozga** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 15', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **13.00 ft**
At Completion of Drilling: ▼ **mud in the borehole**
Time After Drilling: **72 hours**
Depth to Water: ▽ **35.00 ft**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

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BORING LOG 15-RWB-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.54 ft
North: 1897200.61 ft
East: 1171415.26 ft
Station: 7312+95.62
Offset: 5.61 LT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	14-inch thick, black SILTY LOAM --TOPSOIL--						
592.4	Medium dense, black and brown LOAM, some gravel and brick fragments			1	6 10 10	NP	15
590.5	--FILL--						
	Medium dense to dense, black and brown SILTY LOAM, trace gravel and brick fragments			2	3 17 14	NP	57
	--FILL--	5					
				3	9 6 5	NP	22
585.5	Gray, medium SAND, trace gravel						
584.8	Very stiff, gray SILTY CLAY, trace gravel	10		4	2 3 6	3.36 B	23
				5	5 6 7	3.03 B	26
580.5	Very soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel						
		15		6	2 1 2	0.33 B	27
				7	1 1 1	0.16 B	24
		20		8	1 1 1	0.16 B	29

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		25		9	2 1 3	0.16 B	24
				10	2 2 2	0.25 B	20
				11	2 1 2	0.33 B	24
		30		12	1 2 3	0.16 B	26
				13	1 2 2	0.16 B	25
		35					
				14	2 3 3	0.25 B	24
		40					

GENERAL NOTES

Begin Drilling: **02-25-2014** Complete Drilling: **02-28-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **N&J** Logger: **A. Happel** Checked by: **C. Marin**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: ▽ **Rotary wash**
At Completion of Drilling: ▼ **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: ▽ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

0161729-62A74-RW28-Boring

AECOM	USER NAME = keserovicm	DESIGNED - DD	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS – VIII STRUCTURE NO. 016-1729
		CHECKED - ATB	REVISED		SHEET NO. RW-28 OF RW-33 SHEETS
	PLOT SCALE = N.T.S.	DRAWN - GF	REVISED		
	PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	191
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

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Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 15-RWB-01

WEI Job No.: 1100-04-01

Client: AECOM
Project: Circle Interchange Reconstruction
Location: Section 17, T39N, R14E of 3rd PM

Datum: NAVD 88
Elevation: 593.54 ft
North: 1897200.61 ft
East: 1171415.26 ft
Station: 7312+95.62
Offset: 5.61 LT

Depth (ft)	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	541.8	Hard, gray SILTY CLAY LOAM, trace gravel					
45		--L_L(%)=34, P_L(%)= 18-- --%Gravel=4.4-- --%Sand=14.5-- --%Silt=47.7-- --%Clay=33.3-- --A-6 (12)--		15	3 4 5	0.50 P	25
50				16	2 2 2	0.82 B	27
55				17	14 18 30	5.33 S	13
60				18	14 22 26	6.72 S	13
	531.8	Dense, gray, medium SAND, trace gravel --Moist to wet--					
65				19	13 20 25	NP	24
70		--HARD DRILLING-- *--Possible Cobbles--* --%Gravel=0.2-- --%Sand=79.5-- --%Silt=18.3-- --%Clay=2.0-- --A-2-4 (0)--		20	22 16 24	NP	24
75				21	14 18 21	NP	19
	516.8	Hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel					
80				22	18 39 50	4.50 P	13

GENERAL NOTES

Begin Drilling: 02-25-2014 Complete Drilling: 02-28-2014
Drilling Contractor: Wang Testing Services Drill Rig: D-25 ATV [93%]
Driller: N&J Logger: A. Happel Checked by: C. Marin
Drilling Method: 2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: Rotary wash
At Completion of Drilling: mud in the borehole
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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BORING LOG 15-RWB-01

WEI Job No.: 1100-04-01

Client: AECOM
Project: Circle Interchange Reconstruction
Location: Section 17, T39N, R14E of 3rd PM

Datum: NAVD 88
Elevation: 593.54 ft
North: 1897200.61 ft
East: 1171415.26 ft
Station: 7312+95.62
Offset: 5.61 LT

Depth (ft)	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
85				23	22 32 50	9.02 S	13
90		--L_L(%)=26, P_L(%)=16-- --%Gravel=0.1-- --%Sand=11.7-- --%Silt=62.6-- --%Clay=25.6-- --A-4 (7)--		24	25 33 48	10.25 S	13
	503.5	Boring terminated at 90.00 ft					
95							
100							

GENERAL NOTES

Begin Drilling: 02-25-2014 Complete Drilling: 02-28-2014
Drilling Contractor: Wang Testing Services Drill Rig: D-25 ATV [93%]
Driller: N&J Logger: A. Happel Checked by: C. Marin
Drilling Method: 2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: Rotary wash
At Completion of Drilling: mud in the borehole
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

0161729-62A74-RW29-Boring

AECOM

USER NAME = keserovicm	DESIGNED - DD	REVISED	
	CHECKED - ATB	REVISED	
PLOT SCALE = N.T.S.	DRAWN - GF	REVISED	
PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – IX
STRUCTURE NO. 016–1729
SHEET NO. RW-29 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	192
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		

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BORING LOG 15-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 592.37 ft
North: 1897034.79 ft
East: 1171464.06 ft
Station: 7314+69.17
Offset: 7.23 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	591.4	12-inch thick, brown SANDY LOAM --FILL--						
		Very stiff, gray SILTY CLAY LOAM, trace gravel and roots --FILL--			1	3 6 7	2.05 S	17
	589.4	Medium dense, SILTY LOAM to SILTY CLAY LOAM, trace gravel, sand and brick --FILL--	5		2	6 5 5	NP	17
	586.9	Very loose to loose, brown, fine SAND --Wet--			3	3 4 4	NP	18
	582.9	Stiff, brown and gray SILTY CLAY, trace gravel	10		4	2 3 2	NP	17
					5	2 2 3	1.00 P	29
			15		6	0 2 2	1.23 B	24
	576.9	Soft to medium stiff, gray CLAY to SILTY CLAY, trace gravel			7	0 2 2	0.82 B	24
			20		8	0 1 2	0.57 B	24
			25		9	0 0 2	0.41 B	24
					10	0 0 0	0.74 B	30
					11	1 1 1	0.74 B	22
			30		12	0 2 2	0.57 B	23
					13	0 0 1	0.41 B	25
			35					
			40		14	0 1 2	0.41 B	25

GENERAL NOTES

Begin Drilling: **04-03-2014** Complete Drilling: **04-03-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **M. de los Reyes** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 11', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.50 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

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BORING LOG 15-RWB-02

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 592.37 ft
North: 1897034.79 ft
East: 1171464.06 ft
Station: 7314+69.17
Offset: 7.23 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	530.6	Very dense, gray SILT --Wet--			19	65/5	NP	
	527.4	Boring terminated at 65.00 ft	45		15	0 2 3	0.82 B	25
	540.6	Very stiff to hard, gray SILTY CLAY LOAM to SILTY LOAM, trace gravel	50		16	0 1 2	0.41 B	28
		--HARD DRILLING-- *--Possible Cobbles--*	55		17	7 7 14	4.10 B	20
			60		18	10 25 50/5	3.28 S	14
			70					
			75					
			80					

GENERAL NOTES

Begin Drilling: **04-03-2014** Complete Drilling: **04-03-2014**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-50 TMR [78%]**
Driller: **R&J** Logger: **M. de los Reyes** Checked by: **C. Marin**
Drilling Method: **2.25" SSA to 11', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.50 ft**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

0161729-62A74-RW30-Boring

AECOM

USER NAME = keserovicm	DESIGNED - DD	REVISED
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - GF	REVISED
PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – X
STRUCTURE NO. 016–1729
SHEET NO. RW-30 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	193
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

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BORING LOG 1729-VST-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 598.29 ft
North: 1897455.09 ft
East: 1171356.40 ft
Station: 7310+33.97
Offset: 1.45 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		Drilled without sampling	5					
			10					
	584.8	Medium dense, brown and black SANDY LOAM; trace gravel; trace brick and wood fragments; mosit	15	1	4 6 5	NP		20
	583.0	--FILL-- Stiff, gray SILTY CLAY LOAM, trace gravel						
		--FILL--		2	3 3 4	1.07 B		21
	581.0	Medium stiff, gray SILTY CLAY, trace gravel	20	3	2 3 3	0.57 B		21
		--In-Situ Vane Shear, 25.0 feet-- $S_{u\ undis}$ = 926.51 psf-- $S_{u\ remold}$ = 452.48 psf-- Sensitivity = 2.05--	25	1	VS			
		--In-Situ Vane Shear, 30.0 feet-- $S_{u\ undis}$ = 603.30 psf-- $S_{u\ remold}$ = 344.75 psf-- Sensitivity = 1.75--	30	2	VS			
		--In-Situ Vane Shear, 35.0 feet-- $S_{u\ undis}$ = 592.53 psf-- $S_{u\ remold}$ = 301.65 psf-- Sensitivity = 1.96--	35	3	VS			
		--In-Situ Vane Shear, 40.0 feet--	40	4				

GENERAL NOTES

Begin Drilling: **07-25-2016** Complete Drilling: **07-26-2016**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **N&N** Logger: **F. Bozga** Checked by: **M. Seyhun**
Drilling Method: **2.25" IDA HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **Mud at 20 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

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BORING LOG 1729-VST-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 598.29 ft
North: 1897455.09 ft
East: 1171356.40 ft
Station: 7310+33.97
Offset: 1.45 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
		--$S_{u\ undis}$ = 635.62 psf-- --$S_{u\ remold}$ = 355.52 psf-- --Sensitivity = 1.78--				VS		
		--In-Situ Vane Shear, 45.0 feet-- $S_{u\ undis}$ = 840.32 psf-- $S_{u\ remold}$ = 430.93 psf-- Sensitivity = 1.95--	45	5		VS		
			50	4		4 4 5 5	0.57 B	27
				5		2 3 3	0.41 B	29
		--In-Situ Vane Shear, 54.5 feet-- $S_{u\ undis}$ = 1508.26 psf-- $S_{u\ remold}$ = 1249.71 psf-- Sensitivity = 1.21--	55	6		VS		
	542.8	Very stiff, gray SILTY CLAY, trace gravel		6		5 10 16	2.46 B	22
	540.8	Boring terminated at 57.50 ft	60					

GENERAL NOTES

Begin Drilling: **07-25-2016** Complete Drilling: **07-26-2016**
Drilling Contractor: **Wang Testing Services** Drill Rig: **D-25 ATV [93%]**
Driller: **N&N** Logger: **F. Bozga** Checked by: **M. Seyhun**
Drilling Method: **2.25" IDA HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **Mud at 20 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

0161729-62A74-RW31-Boring

AECOM

USER NAME = keserovicm	DESIGNED - DD	REVISED	
	CHECKED - ATB	REVISED	
PLOT SCALE = N.T.S.	DRAWN - GF	REVISED	
PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – XI
STRUCTURE NO. 016–1729
SHEET NO. RW-31 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	194
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		

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BORING LOG 1729-VST-02

WEI Job No.: 1100-04-01

Client: AECOM
Project: Circle Interchange Reconstruction
Location: Section 17, T39N, R14E of 3rd PM

Datum: NAVD 88
Elevation: 592.70 ft
North: 1897206.55 ft
East: 1171441.79 ft
Station: 7312+95.08
Offset: 32.79 LT

Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	SOIL AND ROCK DESCRIPTION
						Drilled without sampling
20		1	2 2 3	NR		574.2 Very soft to medium stiff, gray SILTY CLAY, trace gravel
25		2	2 3 5	< 0.25 P	23	--In-Situ Vane Shear, 27.0 feet-- --Failed test--
30		1	VS			--In-Situ Vane Shear, 30.0 feet-- --$S_{u\ undis}$ = 624.85 psf-- --$S_{u\ remold}$ = 409.38 psf-- --Sensitivity = 1.53--
35		2	VS			--In-Situ Vane Shear, 35.0 feet-- --$S_{u\ undis}$ = 603.31 psf-- --$S_{u\ remold}$ = 387.84 psf-- --Sensitivity = 1.56--
40		3	VS			--In-Situ Vane Shear, 40.0 feet--
		4				--$S_{u\ undis}$ = 743.36 psf-- --$S_{u\ remold}$ = 452.48 psf-- --Sensitivity = 1.64--
45		5	VS			--In-Situ Vane Shear, 45.0 feet-- --Failed test--
47.5		6	VS			--In-Situ Vane Shear, 47.5 feet-- --$S_{u\ undis}$ = 1422.08 psf-- --$S_{u\ remold}$ = 775.68 psf-- --Sensitivity = 1.83--
50		7	VS			--In-Situ Vane Shear, 49.5 feet-- --$S_{u\ undis}$ = 1422.07 psf-- --$S_{u\ remold}$ = 775.68 psf-- --Sensitivity = 1.83--
52.5		3		0.50 P	23	540.4 540.2 Hard, gray SILTY CLAY, trace gravel Boring terminated at 52.50 ft

GENERAL NOTES

Begin Drilling: 07-27-2016 Complete Drilling: 07-27-2016
Drilling Contractor: Wang Testing Services Drill Rig: D-25 ATV [93%]
Driller: N&N Logger: F. Bozga Checked by: M. Seyhun
Drilling Method: 2.25" IDA HSA to 10', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: Rotary wash
At Completion of Drilling: Mud at 22.5 ft
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

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BORING LOG 1729-VST-02

WEI Job No.: 1100-04-01
Client: AECOM
Project: Circle Interchange Reconstruction
Location: Section 17, T39N, R14E of 3rd PM
Datum: NAVD 88
Elevation: 592.70 ft
North: 1897206.55 ft
East: 1171441.79 ft
Station: 7312+95.08
Offset: 32.79 LT

GENERAL NOTES
Begin Drilling: 07-27-2016 Complete Drilling: 07-27-2016
Drilling Contractor: Wang Testing Services Drill Rig: D-25 ATV [93%]
Driller: N&N Logger: F. Bozga Checked by: M. Seyhun
Drilling Method: 2.25" IDA HSA to 10', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA
While Drilling: Rotary wash
At Completion of Drilling: Mud at 22.5 ft
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

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BORING LOG VST-01

WEI Job No.: 1100-04-01

Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.55 ft
North: 1897108.36 ft
East: 1171435.63 ft
Station: 7313+90.47
Offset: 2.00 LT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	Very stiff, brown SILTY CLAY LOAM, trace gravel						
	--FILL--			1	3 5 7	2.75 P	14
590.5	Medium dense, fine SAND						
		5		2	5 5 6	NP	7
586.8	Medium stiff to stiff, gray SILTY CLAY						
		10		3	2 2 3	1.31 B	26
		15		4	2 2 3	0.98 B	28
578.0	Soft, gray SILTY CLAY						
				5	1 2 2	0.25 P	29
575.3	--In-Situ Vane Shear, 19.5 feet--	20		1	VS		
	--$S_{u\,undis}$ = 786.3 psf-- --$S_{u\,remold}$ = 371.3 psf-- --Sensitivity = 2.1--				VS		
	--In-Situ Vane Shear, 22.0 feet-- --$S_{u\,undis}$ = 742.6 psf-- --$S_{u\,remold}$ = 305.8 psf-- --Sensitivity = 2.4--			2	VS		
	--In-Situ Vane Shear, 24.5 feet-- --$S_{u\,undis}$ = 578.8 psf-- --$S_{u\,remold}$ = 382.2 psf-- --Sensitivity = 1.5--	25		3	VS		
	--In-Situ Vane Shear, 27.0 feet-- --$S_{u\,undis}$ = 742.6 psf-- --$S_{u\,remold}$ = 415.0 psf-- --Sensitivity = 1.8--			4	VS		
	--In-Situ Vane Shear, 29.5 feet-- --$S_{u\,undis}$ = 589.7 psf-- --$S_{u\,remold}$ = 283.9 psf-- --Sensitivity = 2.1--	30		5	VS		
	--In-Situ Vane Shear, 32.0 feet-- --$S_{u\,undis}$ = 1026.6 psf-- --$S_{u\,remold}$ = 447.8 psf-- --Sensitivity = 2.3--			6	VS		
	--In-Situ Vane Shear, 34.5 feet-- --$S_{u\,undis}$ = 764.5 psf-- --$S_{u\,remold}$ = 480.5 psf-- --Sensitivity = 1.6--	35		7	VS		
	--In-Situ Vane Shear, 37.0 feet-- --$S_{u\,undis}$ = 1026.6 psf-- --$S_{u\,remold}$ = 589.7 psf-- --Sensitivity = 1.7--			8	VS		
		40					

GENERAL NOTES

Begin Drilling: **12-01-2015** Complete Drilling: **12-01-2015**
Drilling Contractor: **Wang Testing Services** Drill Rig: **CME-55 TMR [85%]**
Driller: **R&N** Logger: **F. Bozga** Checked by: **A. Kurnia**
Drilling Method: **2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **Rotary wash**
At Completion of Drilling: **mud in the borehole**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG VST-01

WEI Job No.: 1100-04-01

Client: AECOM
Project: Circle Interchange Reconstruction
Location: Section 17, T39N, R14E of 3rd PM

Datum: NAVD 88
Elevation: 593.55 ft
North: 1897108.36 ft
East: 1171435.63 ft
Station: 7313+90.47
Offset: 2.00 LT

Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	--Equipment Slipped--	45		9	VS		
	--In-Situ Vane Shear, 46.5 feet-- --$S_{u\,undis}$ = 1070.2 psf-- --$S_{u\,remold}$ = 633.4 psf-- --Sensitivity = 1.7--			10	VS		
544.0	--In-Situ Vane Shear, 49.0 feet-- --$S_{u\,undis}$ = 1157.6 psf-- --$S_{u\,remold}$ = 611.6 psf-- --Sensitivity = 2.3--	50		11	VS		
	Boring terminated at 49.50 ft						
		55					
		60					

GENERAL NOTES

Begin Drilling: 12-01-2015 Complete Drilling: 12-01-2015
Drilling Contractor: Wang Testing Services Drill Rig: CME-55 TMR [85%]
Driller: R&N Logger: F. Bozga Checked by: A. Kurnia
Drilling Method: 2.25" HSA to 10', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA

While Drilling: Rotary wash
At Completion of Drilling: mud in the borehole
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 11000401.GPJ WANGENG.GDT 6/13/17

0161729-62A74-RW33-Boring

AECOM

USER NAME = keserovicm	DESIGNED - DD	REVISED
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - GF	REVISED
PLOT DATE = 6/29/2017	CHECKED - ATB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS – XIII
STRUCTURE NO. 016–1729
SHEET NO. RW-33 OF RW-33 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	196
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			

FOR INFORMATION ONLY

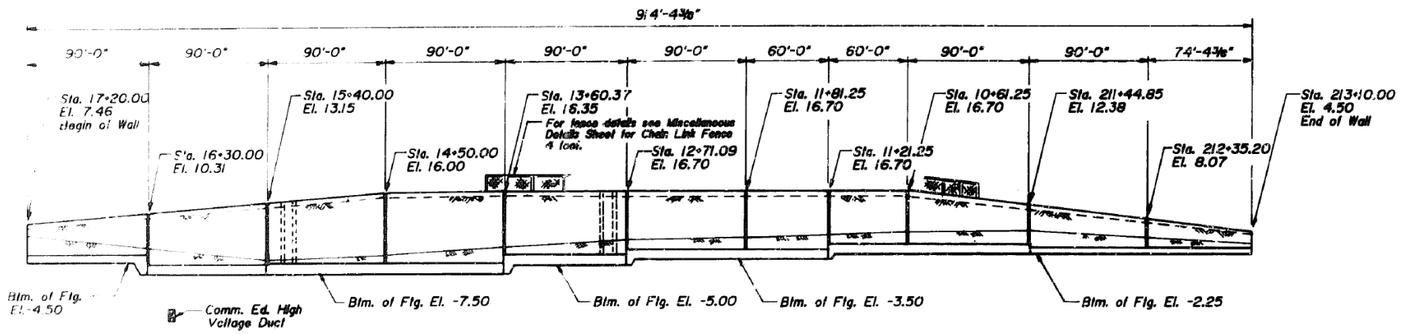
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94 *	COOK	81	38
STA.	TO STA.		
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT	

* 2526.6-IP-R-3
2626.2-28-1M
0101.6-IP-R(85)

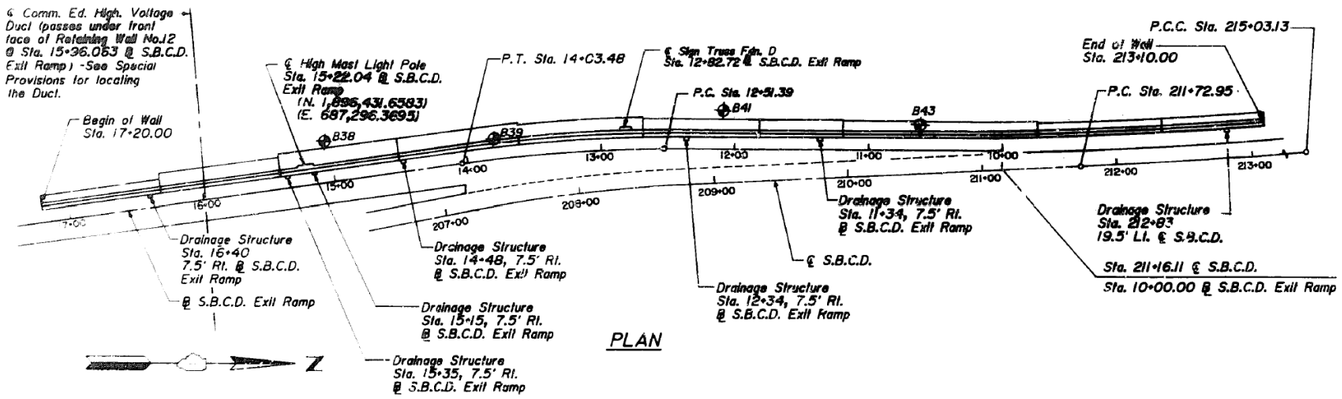
BENCHMARK

"BM #25" S.E. Flange bolt of Hydrant @ S.W. Corner Harrison over N.B. Dan Ryan El. 18.565

TBM #62" "□" on N.W. Abutment wall Polk St. over Dan Ryan El. 16.404



ELEVATION



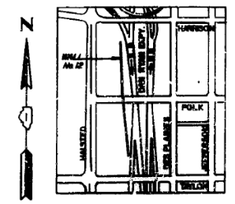
PLAN

LEGEND

℄ Denotes Soil Boring

LOCATION OF CONSTRUCTION AND EXPANSION JOINTS

Station		Offset to Front Face of Wall	Type of Joint
17+20.00	@ S.B.C.D.	9.25' Rt.	Begin of Wall
16+90.00	Exit Ramp	9.25' Rt.	Construction
16+60.00	"	9.25' Rt.	Construction
16+30.00	"	9.25' Rt.	Expansion
16+00.00	"	9.25' Rt.	Construction
15+70.00	"	9.25' Rt.	Construction
15+40.00	"	9.25' Rt.	Expansion
15+10.00	"	9.25' Rt.	Construction
14+80.00	"	9.25' Rt.	Construction
14+50.00	"	9.25' Rt.	Expansion
14+20.00	"	9.25' Rt.	Construction
13+90.13	"	9.25' Rt.	Construction
13+60.37	"	9.25' Rt.	Expansion
13+30.61	"	9.25' Rt.	Construction
13+00.85	"	9.25' Rt.	Construction
12+71.08	"	9.25' Rt.	Expansion
12+41.25	"	9.25' Rt.	Construction
12+11.25	"	9.25' Rt.	Construction
11+81.25	"	9.25' Rt.	Expansion
11+51.25	"	9.25' Rt.	Construction
11+21.25	"	9.25' Rt.	Construction
10+91.25	"	9.25' Rt.	Construction
10+61.25	"	9.25' Rt.	Construction
10+31.25	"	9.25' Rt.	Construction
10+01.25	"	9.25' Rt.	Construction
211+44.85	℄ S.B.C.D.	21.75' Lt.	Expansion
211+74.68	"	21.25' Lt.	Construction
212+03.03	"	21.25' Lt.	Construction
212+33.23	"	21.25' Lt.	Construction
212+63.23	"	21.25' Lt.	Construction
212+93.23	"	21.25' Lt.	Construction
213+23.23	"	21.25' Lt.	Construction



LOCATION PLAN

See Sheet S-1 for General Notes and Total Bill of Material.

SHEET S-2 OF S-27

REVISIONS	
Items	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTIONS 2526.6-IP-R-3, 2626.2-28-DM AND 0101.6-IP-R(85)-COOK COUNTY
POLK STREET BRIDGE DEMOLITION AND RETAINING WALL NOS. A, II, AND 12
RETAINING WALL NO. 12
GENERAL PLAN AND ELEVATION

Scale : As Noted
Date : 5-17
Drawn By : P.V.V.
Checked By : G.S.P.

SARGENT & LUNDY ENGINEERS INC.
Chicago, Illinois

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-SHT-EX-RW12-01.dgn	DESIGNED - HA	REVISED -
USER NAME = FloresG	DRAWN - ATB	REVISED -
PLOT SCALE = 0:2.0000 '' / in.	CHECKED -	REVISED -
PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RETAINING WALL 12 PLANS

SCALE: | SHEET 1 OF 15 SHEETS | STA. | TO STA.

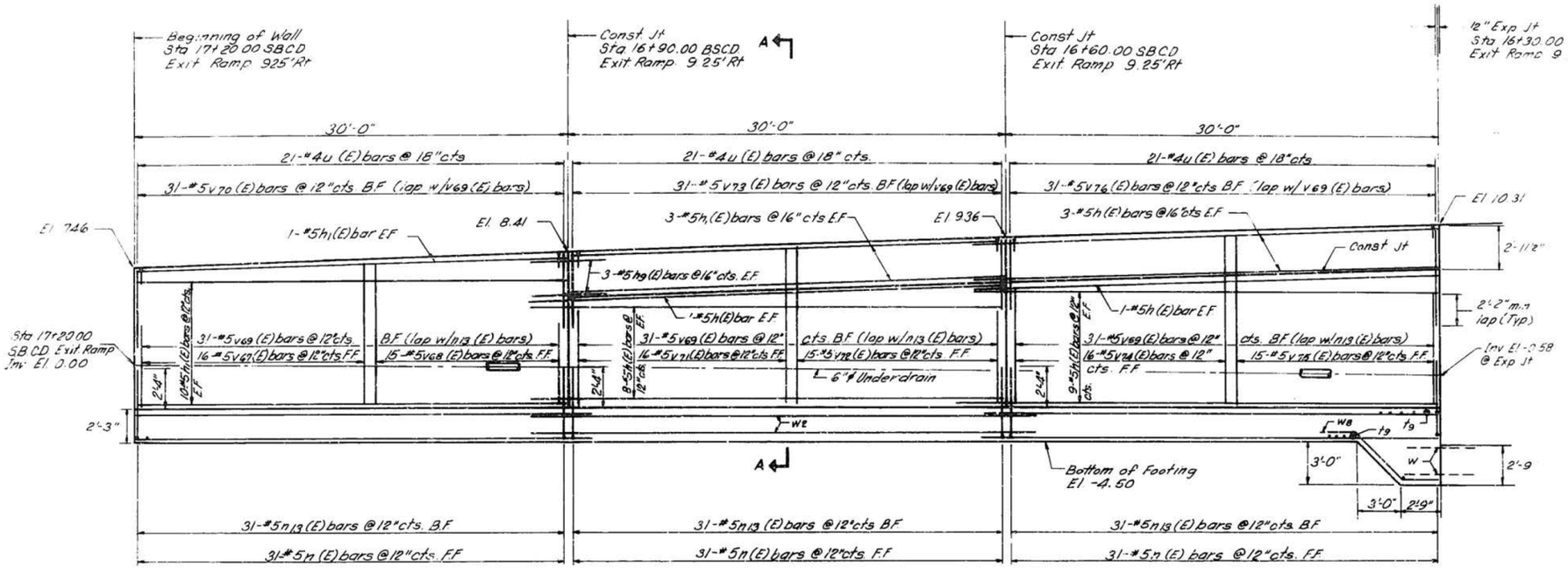
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	197
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		

FILE PATH = P:\60288727\000_CAD\000_Structural\Structure_816-1729\Print Organizer\D162A74-SHT-EX-RW12-01.dgn

FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	81	49
STA.		TO STA.		
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 2323.6-P-R-3
2823.2-28-DM
0101.6-P-R(85)



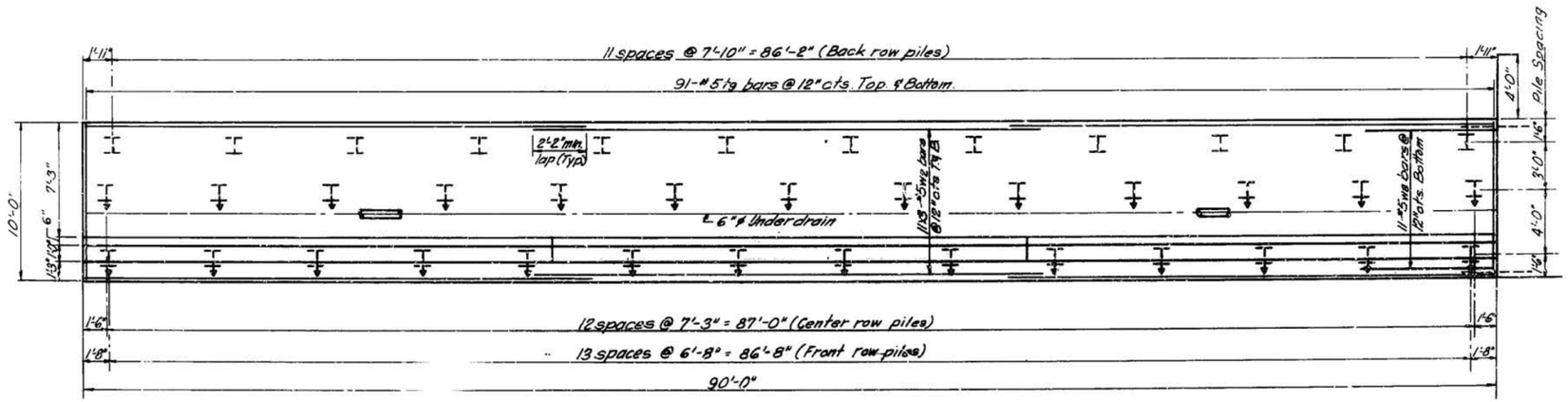
ELEVATION

NOTES

1. For underdrains and backfill details see Sheet No. S-27.
2. For joint details and architectural finish and elevations, see Sheet No. S-27.
3. Refer to Alignment and Ties Sheet for horizontal alignment.
4. All longitudinal dimensions shown are measured along the East face of the wall.
5. Bars indicated thus 1 20#3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
6. Make connections from 6"ϕ underdrain to inlets at Sta. 14+48.00 S.B.C.D. Exit Ramp and Sta. 11+34.10 S.B.C.D. Exit Ramp.
7. Reinforcement is detailed according to an assumed starting point of construction at Sta. 12+71.09 S.B.C.D. Exit Ramp.
8. Bars designated (E) shall be epoxy coated.

Indicates pile battered 4" per foot.

B.F. = Back Face
F.F. = Front Face
E.F. = Each Face



PLAN

SHEET S-13 OF S-27

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTIONS 2323.6-P-R-3, 2823.2-28-DM
AND 0101.6-P-R(85)-COOK COUNTY
POLK STREET BRIDGE DEMOLITION AND
RETAINING WALL NOS. 8, 11, AND 12
RETAINING WALL NO. 12 PLAN AND ELEVATION
(STA. 17+20.00 TO 16+30.00 S.B.C.D. EXIT RAMP)

Scale : None
Date : 5-17
Drawn By : P.V.V.
Checked By : G.S.P.

EARTHCORE EXPLORERS INC.
Chicago, Illinois

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

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PLOT SCALE = 82.0000 '' / in.	CHECKED -	REVISED -
PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RETAINING WALL 12 PLANS

SCALE: | SHEET 2 OF 15 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	198
		CONTRACT NO. 62A74		
	ILLINOIS	FED. AID PROJECT		

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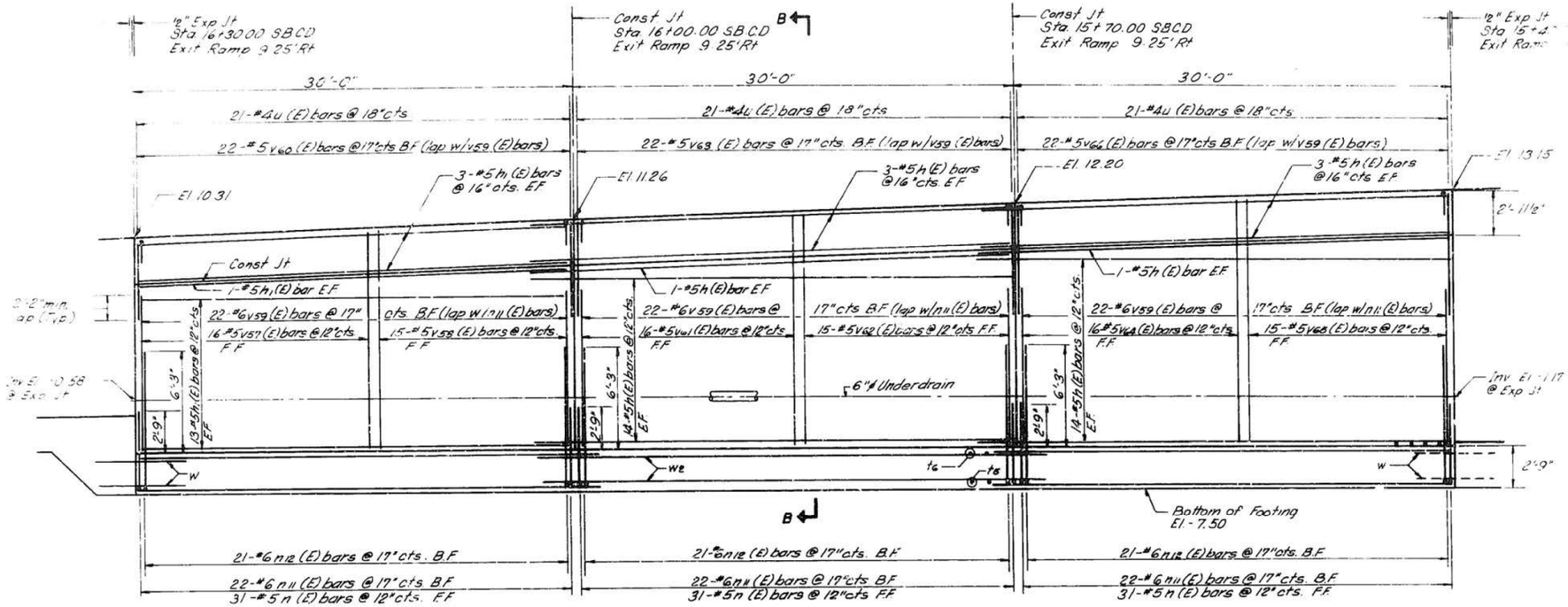
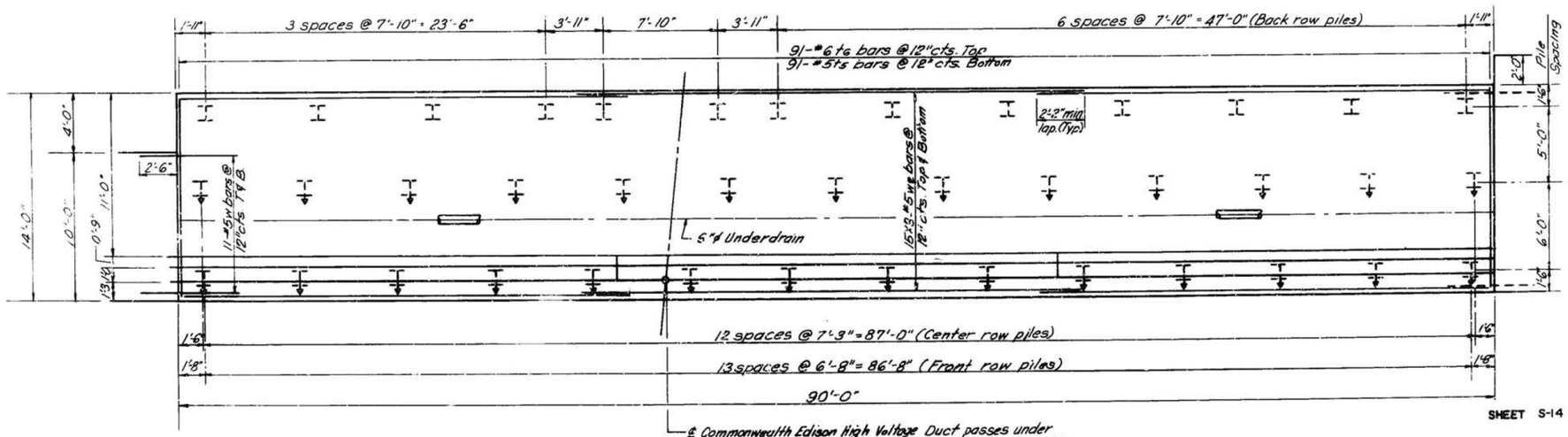
FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	81	50
STA.		TO STA.		
FED. RD. DIST. NO.	ILLINOIS	FED. AID PROJECT		

* 2526.6-IP-R-3
2626.2-2B-DM
0101.6-IP-R(85)



ELEVATION



PLAN

For notes see Sheet S-13.

SHEET S-14 OF S-27

REVISIONS	
Name	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTIONS 2126.6-IP-R-3, 2626.2-2B-DM
AND 0101.6-IP-R(85)-COOK COUNTY
POLK STREET BRIDGE DEMOLITION AND
RETAINING WALL NOS. 8, 11, AND 12
RETAINING WALL NO. 12 PLAN AND ELEVATION
(STA. 16+30.00 TO 15+40.00 S.B.C.D. EXIT RAMP)
Scale : None
Date : 5-97
Drawn By : P.V.V.
Checked By : G.S.P.
ENVIRODYNE ENGINEERS INC.
Chicago, Illinois

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

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USER NAME = FloresG	DRAWN - ATB	REVISED -
PLOT SCALE = 0:2.0000 '' / in.	CHECKED -	REVISED -
PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RETAINING WALL 12 PLANS

SCALE: | SHEET 3 OF 15 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	199
		CONTRACT NO. 62A74		
ILLINOIS	FED. AID PROJECT			

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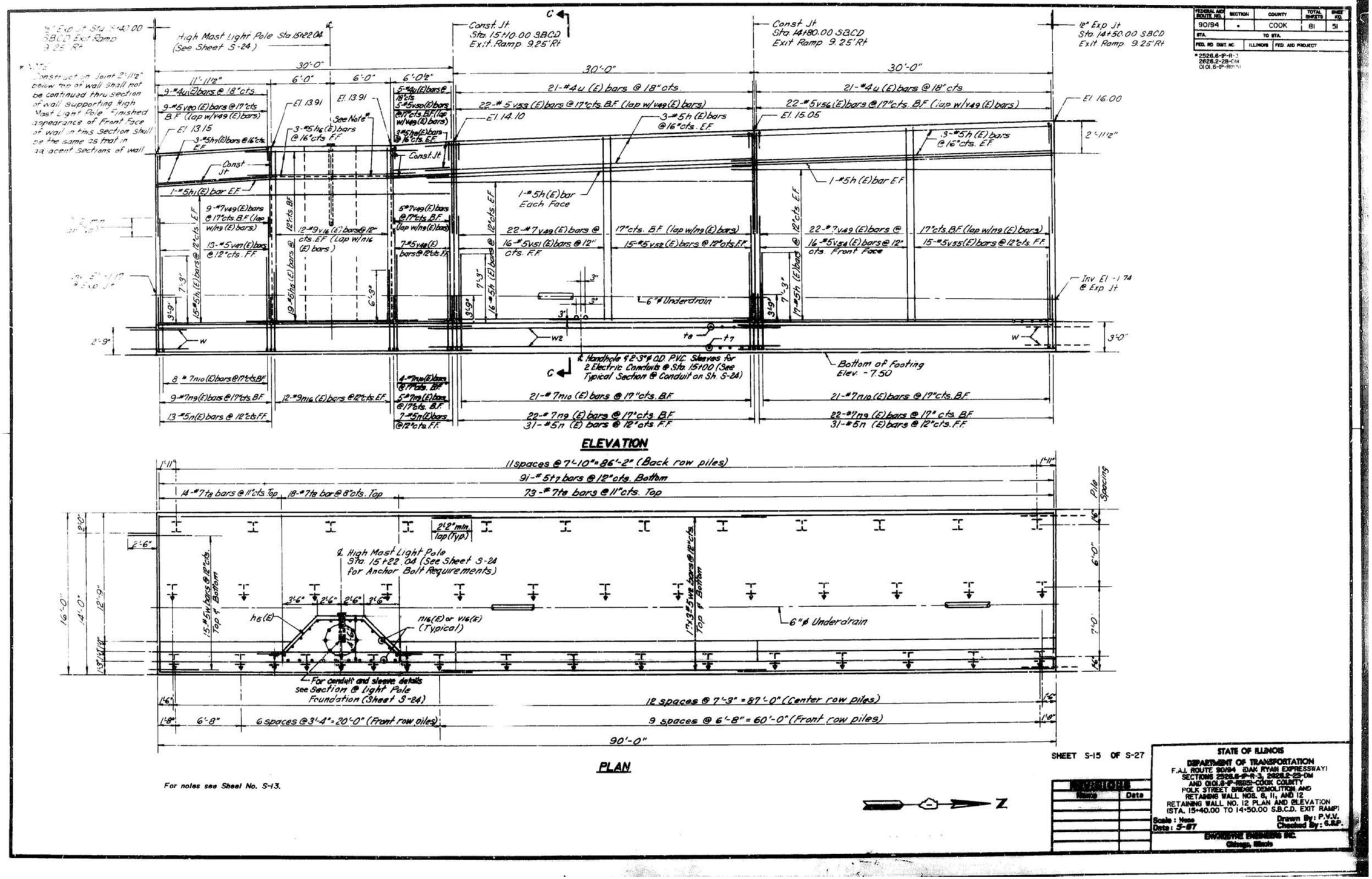
FOR INFORMATION ONLY

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	•	COOK	81	51
STA.		TO STA.		
FED. RD DIST. NO.	ILLINOIS	FED. AID PROJECT		

*2526.6-P-R-3
2626.2-28-DM
0101.6-P-R(6)



ELEVATION

PLAN

For notes see Sheet No. S-13.

SHEET S-15 OF S-27

REVISIONS	
Remarks	Date

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTIONS 2526.6-P-R-3, 2626.2-23-DM AND 0101.6-P-R(6)-COOK COUNTY
POLK STREET BRIDGE DEMOLITION AND RETAINING WALL NOS. 8, 11, AND 12
RETAINING WALL NO. 12 PLAN AND ELEVATION
(STA. 15+40.00 TO 14+50.00 S.B.C.D. EXIT RAMP)
Scale : None
Date : 5-17
Drawn By: P.V.V.
Checked By: G.R.F.
ENVIRONTIE ENGINEERS INC.
Chicago, Illinois

FILE PATH = P:\60288727\000.CAD\008.Structural\Structure.816-1729\Print Organizer-\D162A74-SHT-EX-RW12-04.dgn

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-7700 FAX: (312) 373-6800

D162A74-SHT-EX-RW12-04.dgn	DESIGNED - HA	REVISED -
USER NAME = FloresG	DRAWN - ATB	REVISED -
PLOT SCALE = 0:2.0000 '' / in.	CHECKED -	REVISED -
PLOT DATE = 5/12/2017	DATE - 05/15/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING RETAINING WALL 12 PLANS

SCALE: | SHEET 4 OF 15 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2015-022-I	COOK	275	200
		CONTRACT NO. 62A74		
	ILLINOIS FED. AID PROJECT			