F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	1
	ILLINOIS	CONTRACT NO. 60X61		

*317 + 44 = 361 A
*361 + 2 = 363
D-91-227-13

PROJECT LOCATED IN CITY OF CHICAGO

FOR INDEX OF SHEETS AND STANDARDS SEE SHEET NO. 2 AND 3

DESIGN DESIGNATIONS:

WB I–290	31,000(2040) INTERSTATE	45 /50 MPH
MORGAN STREET EXIT RAMP	5,000(2040) INTERSTATE RAMP	30 /30 MPH
RAMP NW	36,000(2040) INTERSTATE RAMP	35 /35 MPH
RAMP SW	23,000(2040) INTERSTATE RAMP	35 /35 MPH

POSTED /DESIGN SPEEDS:

DANNY B. MANOJLOVSKI 062-051232 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

DANNY B. MANOJLOVSKI 10/17/14 DATE
LICENSE EXPIRES 11 /30 /2015
SHEET RANGE 1–90, 95–108, 256–265, 269–317

STATE OF ILLINOIS MOUSSA A. ISSA 081–005738 LICENSED STRUCTURAL ENGINEER

MOUSSA A. ISSA 10/17/14 DATE
LICENSE EXPIRES 11 /30 /2016
SHEET RANGE 134–169, 198–199

WILLIAM D. STERMER 062-060936 LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS

WILLIAM D. STERMER 10/17/14 DATE
LICENSE EXPIRES 11 /30 /2015
SHEET RANGE 111–133

BRAD M. RADOVICH 081.006954 REGISTERED STRUCTURAL ENGINEER OF ILLINOIS

BRAD M. RADOVICH 10/17/2014 DATE
LICENSE EXPIRES 11 /30 /2016
SHEET RANGE 170–197

ORANIT P. SANCHEZ 062-062643 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

ORANIT P. SANCHEZ 10/17/14 DATE
LICENSE EXPIRES 11 /30 /2015
SHEET RANGE 1–90, 95–108, 256–265, 269–317

CHRISTOPHER L. KRUEGER 062-048305 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

CHRISTOPHER L. KRUEGER 10/17/14 DATE
LICENSE EXPIRES 11 /30 /2015
SHEET RANGE 109–110

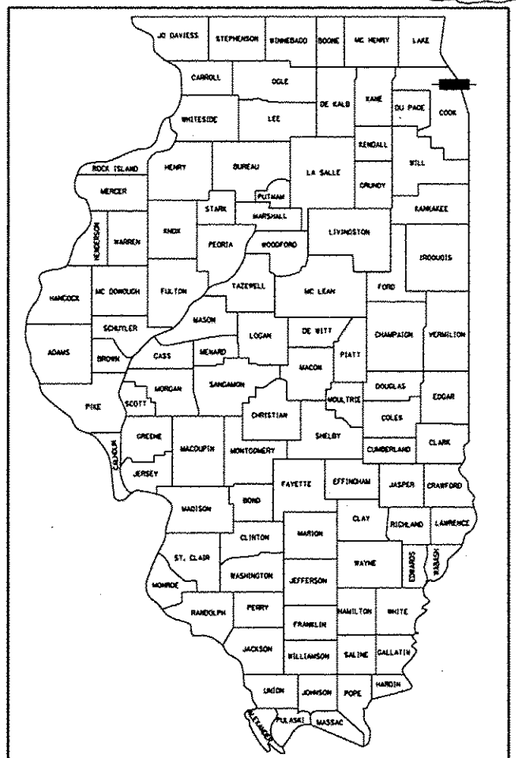
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

CIRCLE INTERCHANGE – I–290 MAINLINE
OUTBOUND LANES (WB)
(PEORIA ST TO RACINE AVE)
SECTION 2013–077R
RETAINING WALL CONSTRUCTION,
ROADWAY RECONSTRUCTION,
AND LIGHTING
PROJECT: ACNHPP-0290 (201)
COOK COUNTY
C–91–149–14

NPDES PERMIT INFORMATION

NPDES Disturbed Area = 3.59 Acres

Approximate Location of Roadway is :
Longitude 87° 39' 15.85" W
Latitude 41° 52' 32.99" N



LOCATION OF SECTION INDICATED THUS: –

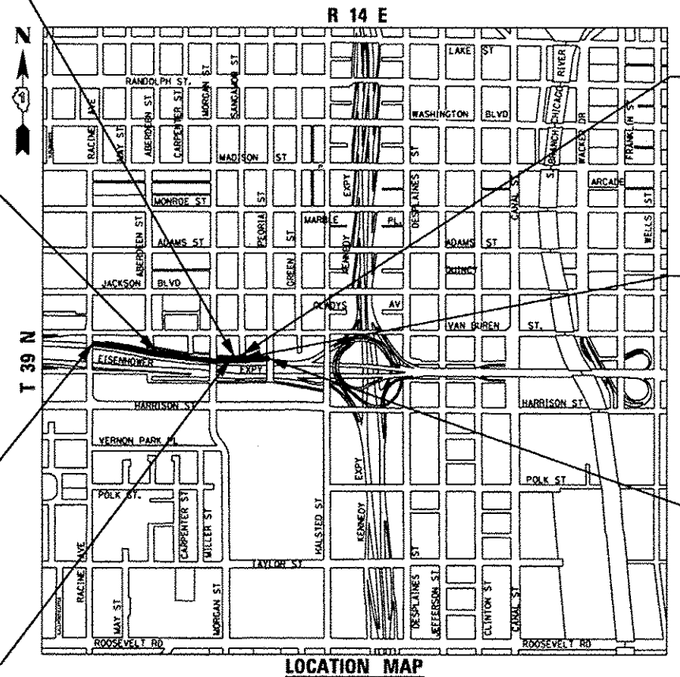
RETAINING WALL 6
SN 016–1725
STA 5228 + 28.92 TO
STA 5233 + 21.45

PROPOSED BARRIER WALL
SN 016–Z030
STA 5239 + 00.00 TO
STA 5240 + 10.00

RETAINING WALL 7
SN 016–1726
STA 5239 + 76.00 TO
STA 5246 + 20.00

END PROJECT LIMIT
STA 5247 + 80.00

RETAINING WALL 5
SN 016–1724
STA 5231 + 26.49 TO
STA 5233 + 84.58



LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 2,573.78 FT (0.489 MILES)
NET LENGTH = 2,573.78 FT (0.489 MILES)

PROPOSED NOISE ABATEMENT WALL
STA 3644 + 18.98 TO
STA 3644 + 84.97

MORGAN STREET EXIT RAMP
STA 3641 + 51.91 TO
STA 3647 + 39.87

BEGIN PROJECT LIMIT
STA 5227 + 94.18

100' 200' 300' — 1"= 100'
10' 20' 30' — 1"= 10'
50' 100' — 1"= 50'
50' 100' — 1"= 40'
50' 100' — 1"= 30'
50' 100' — 1"= 20'

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

C.U.A.N.
CHICAGO ULITITY ALERT NETWORK
1–312–744–7000

PROJECT ENGINEER: LISA CHRZASC
PROJECT MANAGER: BRIAN KUTTAB

CONTRACT NO. 60X61

AECOM
HBM ENGINEERING GROUP, LLC.
EM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED October 17, 2014
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Jan 30 2015
John D. Baranzelli, P.E. by auth
ENGINEER OF DESIGN AND ENVIRONMENT
Jan 30 2015
Omer Osman, P.E. by
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

Rev. 2-20-15 A
Rev.
PLOT DATE: 10/16/2014

DISTRICT 1 DESIGN /CONSULTANT SERVICES: BRIAN KUTTAB, P.E. (847)705–4431 SCHAUMBURG, ILLINOIS

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*149L - DELETED A

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420111-03	PCC PAVEMENT ROUNDOUTS
420201-09	ENTRANCE RAMP TERMINAL (JOINTED PCC RAMP PAVEMENT ADJACENT TO JOINTED PCC MAINLINE PAVEMENT)
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483001-04	PCC SHOULDER
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602001-02	CATCH BASIN TYPE A
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602406-06	MANHOLE TYPE A 6' (1.8m) DIAMETER
602421-04	MANHOLE TYPE A 9' (2.7m) DIAMETER
602601-03	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
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701401-09	LANE CLOSURE, FREEWAY / EXPRESSWAY
701406-09	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH
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701422-07	LANE CLOSURE, MULTILANE, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH TO 55 MPH
701423-08	LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH TO 55 MPH
701426-07	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH
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701428	TRAFFIC CONTROL SETUP AND REMOVAL, FREEWAY / EXPRESSWAY
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704001-07	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
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729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
814001-03	HANDHOLES

AECOM 303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-5276 PHONE: (312) 373-7700 FAX: (312) 373-6800	0160X61-sht-Gennote-01.dgn	DESIGNED - OPS	REVISED - A 2/13/15
	USER NAME = pimsarno	DRAWN - OPS	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - DBM	REVISED -
	PLOT DATE = 2/13/2015	DATE - 12/05/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF DRAWINGS AND HIGHWAY STANDARDS

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	2

CONTRACT NO. 60X61

ILLINOIS FED. AID PROJECT

GENERAL NOTES

1. SEVENTY-TWO (72) HOURS BEFORE STARTING EXCAVATION, THE CONTRACTOR SHALL CALL CUAN (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES MARKED IN THE FIELD.

2. A MINIMUM OF SEVENTY-TWO (72) HOURS PRIOR TO ANY PLACEMENT OR RELOCATION OF MAINTENANCE OF TRAFFIC DEVICES, CONTACT ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) DISTRICT 1 BUREAU OF TRAFFIC.

3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO PERFORM WORK.

4. TEN FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.

5. ALL ELEVATIONS IN THE PLANS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). THE CONVERSION OF NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) TO CITY OF CHICAGO DATUM IS APPROXIMATELY 579.19 FEET.

6. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE OR CITY PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT OR THE CITY OF CHICAGO.

~~7. THE CONTRACTOR SHALL PROVIDE AN ENGINEER'S FIELD OFFICE FOR THIS CONTRACT. SEE ENGINEERS FIELD OFFICE TYPE A (SPECIAL) SPECIAL PROVISION FOR ADDITIONAL INFORMATION.~~ A

8. THE IDOT HIGHWAY STANDARDS LATEST REVISION NUMBERS SHALL APPLY TO THIS PROJECT.

9. CONFLICTS MAY OCCUR BETWEEN THE ROADWAY PLANS AND RIGHT-OF-WAY PLANS. THE RIGHT-OF-WAY PLANS SHALL TAKE PRECEDENCE IN CONFLICTS IN RIGHT-OF-WAY OR EASEMENTS. THE ROADWAY PLANS SHALL TAKE PRECEDENCE IN ITEMS FOR CONSTRUCTION.

10. EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS AND THE SUE SURVEYS. ALL UNDERGROUND UTILITIES MUST BE CONSIDERED APPROXIMATE.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY UTITLITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK WILL BE AT THE CONTRACTORS EXPENSE.

12. THE CONTRACTOR SHALL COORDINATE WORK WITH RAILROADS AND UTILITIES IN ADVANCE OF WORKING IN THE VICINITY OF THEIR FACILITIES, AND ALLOW SUFFICIENT TIME FOR THEM TO PERFORM ADJUSTMENTS TO THEIR FACILITIES IN ACCORDANCE WITH THE CONTRACTOR'S SCHEDULE. COORDINATION EFFORTS SHALL BE INCLUDED IN THE COST OF THE CONTRACT BID PRICE.

13. THE CONTRACTOR MUST CALL THE IDOT ELECTRICAL MAINTENANCE CONTRACTOR TO LOCATE IDOT FACILITY CABLES.

14. CHICAGO TRANSIT AUTHORITY (CTA) REPRESENTATIVE WILL BE MR. ABDIN CARRILLO, PROJECT MANAGER, CONSTRUCTION OVERSIGHT. THE CONTRACTOR SHALL NOTIFY CTA REPRESENTATIVE AT 312-681-3913, 72 HOURS IN ADVANCE OF THE TIME HE INTENDS TO ENTER UPON THE CTA RIGHT-OF-WAY FOR THE PERFORMANCE OF ANY WORK. SEE CTA FLAGGING AND COORDINATION SPECIAL PROVISION FOR ADDITIONAL INFORMATION.

15. THE PROPOSED EMBANKMENT SHALL BE BENCHED INTO THE EXISTING SLOPES TO THE SATISFACTION OF THE ENGINEER. SEE DISTRICT 1 DETAILS FOR BENCHING DETAIL.

16. ALL ROADWAY WIDTHS AND RADII SHOWN ON THE PLANS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

17. STORM SEWER (WATER MAIN REQUIREMENTS) IS TO BE USED AT LOCATIONS WHERE LATERAL SEPARATION BETWEEN THE SEWER AND WATER MAIN IS LESS THAN 10 FT AND THE VERTICAL SEPARATION IS LESS THAN 1.5 FT. DUCTILE IRON PIPE WITH RUBBER GASKET JOINTS SHALL BE USED FOR ALL STORM SEWER (WATER MAIN REQUIREMENTS).

18. THE OFFSETS AND TOP OF FRAME OR LID ELEVATIONS FOR DRAINAGE STRUCTURES WERE DETERMINED USING THE CRITERIA LISTED BELOW UNLESS OTHERWISE NOTED:

    A. THE OFFSETS TO ALL INLETS AND CATCH BASINS IN ROADWAYS WITH BARRIER WALL ARE TO THE EDGE OF SHOULDER.

    B. THE OFFSETS TO ALL INLETS AND CATCH BASINS IN CURBED ROADWAYS ARE TO THE EDGE OF PAVEMENT OR EDGE OF SHOULDER. STRUCTURES LOCATED IN THE GUTTER SHALL BE TURNED SO THAT THE FRAME IS FURTHEST FROM THE CENTER LINE OF THE ROAD UNLESS OTHERWISE NOTED ON THE PLANS.

    C. THE OFFSETS TO MANHOLES, STRUCTURES IN GORE AREAS, AND STRUCTURES IN INFIELD AREAS ARE TO THE CENTER OF THE STRUCTURE.

    D. THE OFFSETS TO INLETS AND CATCH BASINS IN CONCRETE GUTTER ARE TO BE THE FLOWLINE.

19. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

20. THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT-MIX ASPHALT MIXTURE IS PLACED.

21. WHEN THE PAVEMENT CONSTRUCTED IS PORTLAND CEMENT CONCRETE BASE COURSE OR PORTLAND CEMENT CONCRETE PAVEMENT, IT SHALL NOT BE OPENED TO TRAFFIC, INCLUDING CONSTRUCTION TRAFFIC, UNTIL AFTER THE SPECIFIED CURING PERIOD AS DEFINED IN ARTICLE 701.17(c) OF THE STANDARD SPECIFICATIONS AND UNTIL THE JOINTS HAVE BEEN SEALED.

22. ALL REINFORCEMENT BARS, DOWEL BARS, AND TIE BARS SHOULD BE EPOXY COATED UNLESS OTHERWISE NOTED IN THE PLANS.

23. IF ANY UNUSUAL MATERIALS ARE UNCOVERED OR THERE ARE SUSPICIONS OF EXISTING UNDERGROUND STORAGE TANKS, THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANK (LUST) CLEANUPS OR THAT IS PREQUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

24. DRAINAGE GRADES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF DRAINAGE ITEMS.

25. CONNECTING EXISTING DRAINAGE SYSTEMS TO PROPOSED DRAINAGE SYSTEMS SHALL BE INCLUDED IN THE COST OF THE PROPOSED DRAINAGE ITEMS. CARE SHALL BE TAKEN BY THE CONTRACTOR TO NOT DAMAGE THE EXISTING DRAINAGE SYSTEMS. ANY DAMAGE CAUSED BY THE CONTRACTOR TO THE EXISTING DRAINAGE SYSTEMS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTORS OWN EXPENSE AND TO THE SATISFACTION OF THE ENGINEER. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED.

26. ALL PROPOSED PIPE CONNECTIONS INTO AN EXISTING DRAINAGE STRUCTURE SHALL BE CORE DRILLED AND INCLUDED IN THE COST OF STORM SEWERS. NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

27. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE ON JOB SITE DURING CONSTRUCTION.

28. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING PLANT MATERIAL.

29. AN ESTIMATED QUANTITY OF 250 TONS OF AGGREGATE FOR TEMPORARY ACCESS HAS BEEN INCLUDED IN THIS CONTRACT FOR THE PURPOSE OF MAINTAINING CONSTRUCTION POINTS OF ACCESS IN THE CIRCLE INTERCHANGE AREA AND FOR MAINTAINING ANY NECESSARY ACCESS TO PRIVATE PROPERTIES AND SIDE STREETS DURING THIS CONTRACT.

30. WHERE SECTION, SUBSECTION, SUBDIVISION OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

31. REMOVAL OF EXISTING REGULATORY, WARNING, AND/OR TRAFFIC SIGNS WHICH INTERFERE WITH CONSTRUCTION AND/OR CONFLICT WITH CONSTRUCTION TRAFFIC PATTERNS DESCRIBED IN THE MAINTENANCE OF TRAFFIC PLANS OR DIRECTED BY THE ENGINEER SHALL BE INCLUDED IN THE LUMP SUM CONTRACT UNIT PRICE FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

32. FOR STORM SEWER CONSTRUCTED UNDER THE ROADWAY, BACKFILLING METHODS TWO AND THREE AUTHORIZED UNDER THE PROVISIONS OF ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS WILL NOT BE ALLOWED.

33. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY ACCORDING TO ART. 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

34. SAW CUT (FULL DEPTH) SHALL BE REQUIRED AT THE JOINT BETWEEN PAVEMENT, SIDEWALK, CURB AND GUTTER, MEDIAN, DRIVEWAY PAVEMENT, HOT-MIX ASPHALT SURFACES TO BE REMOVED AND THAT LEFT IN PLACE OR AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEMS.

35. UNLESS OTHERWISE NOTED, ALL COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 ALONG THE MAINLINE AND MAINLINE RAMPS SHALL BE DEPRESSED.

36. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW, WASTE, USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR WILL NEED TO SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.G.1 AND 2 OF THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

37. CONTRACT 60X61 WILL USE THE DES PLAINES FIELD OFFICE. CONTRACTOR WILL NOT NEED TO PROVIDE THE ENGINEER'S FIELD OFFICE FOR THIS CONTRACT. A

NOTE:
BOXED ITEMS ARE INCLUDED IN THE COST OF THE CONTRACT OR ITEM SPECIFIED.

AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-1375
PHONE: (312) 373-7700 FAX: (312) 373-6600

0160X61-ent-Gennote-03.dgn	DESIGNED - OPS	REVISED - ⚠ 2/13/15	
USER NAME = pmsorno	DRAWN - OPS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - DBM	REVISED -	
PLOT DATE = 2/12/2015	DATE - 12/05/14	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	4
		CONTRACT NO. 60X61		
	ILLINOIS FED. AID PROJECT			

FILE PATH = path\617479-PWNT.aecomonline.local\AECOM_0582_NA\Documents\01 Americas\Transportation\60269938_CyclePhase_II\0000_CAD\000_Roadway\Sheets\60X61_Contracts\0160X61-ent-Gennote-03.dgn

			URBAN 90% FED. 10% STATE	CONSTRUCTION CODE								
				ROADWAY	RETAINING WALL	RETAINING WALL	RETAINING WALL	MINOR STRUCTURES	NOISE ABATEMENT WALL	MINOR STRUCTURES	HIGHWAY LIGHTING	TRAFFIC SIGNALS
				0004	0040	0040	0040	0040	0040	0040	0021	0021
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN	016-1724	016-1725	016-1726	016-Z030	NONE	016-2113	URBAN	URBAN
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	1019	1019								
64300370	IMPACT ATTENUATORS (FULLY REDIRECTIVE, WIDE), TEST LEVEL 3	EACH	1	1								
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	29,350	29,350								
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1								
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	8	8								
* Z0007510	ENGINEERED BARRIER	SQ YD	11,000	11,000								
67100100	MOBILIZATION	L SUM	1	1								
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	427	427								
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	14	14								
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	5275	5275								
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	9769	9769								
70400100	TEMPORARY CONCRETE BARRIER	FOOT	3575	3575								
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	2862.5	2862.5								
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	8	8								
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	10	10								

Rev. 2-2015 (A)

* DENOTES SPECIALTY ITEM * * DENOTES NON-PARTICIPATING ITEM

Rev.

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

DIG0X61-sht-S00.dgn	DESIGNED - AFC	REVISED -
USER NAME = ChuA	DRAWN - AFC	REVISED -
PLOT SCALE = 1.0000 ' / in.	CHECKED - DBM	REVISED -
PLOT DATE = 10/20/2014	DATE - 10/17/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

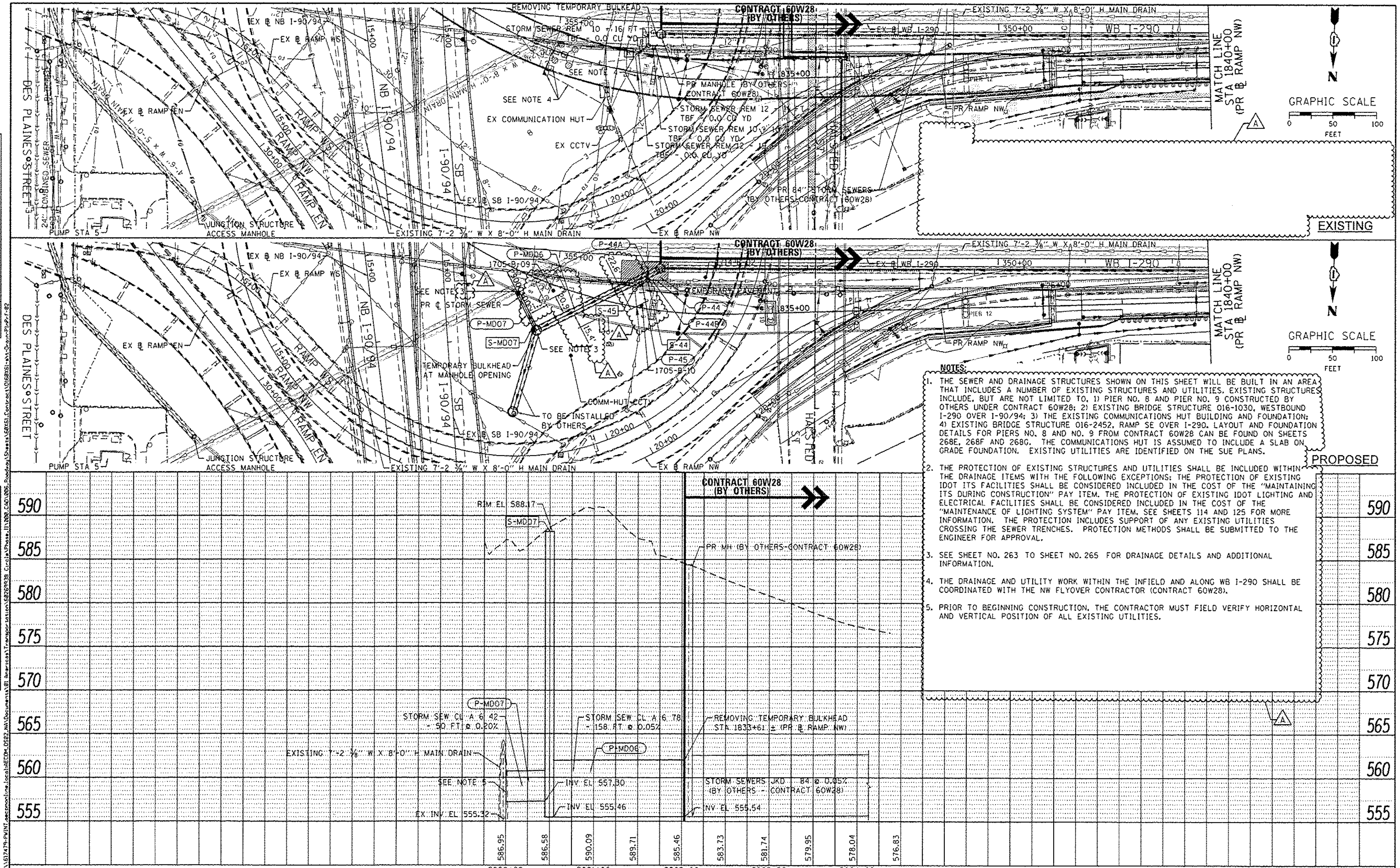
SUMMARY OF QUANTITIES

SCALE: SHEET 7 OF 17 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-OTTR	COOK	317	11

CONTRACT NO. 60X61
ILLINOIS FED. AID PROJECT

FILE PATH = F:_WORK_Circle Interchange\60X61_Aux Lane\Printing\20141028-60X61-Final-S00\D160X61-sht-S00.dgn



NOTES:

1. THE SEWER AND DRAINAGE STRUCTURES SHOWN ON THIS SHEET WILL BE BUILT IN AN AREA THAT INCLUDES A NUMBER OF EXISTING STRUCTURES AND UTILITIES. EXISTING STRUCTURES INCLUDE, BUT ARE NOT LIMITED TO, 1) PIER NO. 8 AND PIER NO. 9 CONSTRUCTED BY OTHERS UNDER CONTRACT 60W28; 2) EXISTING BRIDGE STRUCTURE 016-1030, WESTBOUND I-290 OVER I-90/94; 3) THE EXISTING COMMUNICATIONS HUT BUILDING AND FOUNDATION; 4) EXISTING BRIDGE STRUCTURE 016-2452, RAMP SE OVER I-290. LAYOUT AND FOUNDATION DETAILS FOR PIERS NO. 8 AND NO. 9 FROM CONTRACT 60W28 CAN BE FOUND ON SHEETS 268E, 268F AND 268G. THE COMMUNICATIONS HUT IS ASSUMED TO INCLUDE A SLAB ON GRADE FOUNDATION. EXISTING UTILITIES ARE IDENTIFIED ON THE SUE PLANS.
2. THE PROTECTION OF EXISTING STRUCTURES AND UTILITIES SHALL BE INCLUDED WITHIN THE DRAINAGE ITEMS WITH THE FOLLOWING EXCEPTIONS: THE PROTECTION OF EXISTING IDOT ITS FACILITIES SHALL BE CONSIDERED INCLUDED IN THE COST OF THE "MAINTAINING ITS DURING CONSTRUCTION" PAY ITEM. THE PROTECTION OF EXISTING IDOT LIGHTING AND ELECTRICAL FACILITIES SHALL BE CONSIDERED INCLUDED IN THE COST OF THE "MAINTENANCE OF LIGHTING SYSTEM" PAY ITEM. SEE SHEETS 114 AND 125 FOR MORE INFORMATION. THE PROTECTION INCLUDES SUPPORT OF ANY EXISTING UTILITIES CROSSING THE SEWER TRENCHES. PROTECTION METHODS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
3. SEE SHEET NO. 263 TO SHEET NO. 265 FOR DRAINAGE DETAILS AND ADDITIONAL INFORMATION.
4. THE DRAINAGE AND UTILITY WORK WITHIN THE INFIELD AND ALONG WB I-290 SHALL BE COORDINATED WITH THE NW FLYOVER CONTRACTOR (CONTRACT 60W28).
5. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR MUST FIELD VERIFY HORIZONTAL AND VERTICAL POSITION OF ALL EXISTING UTILITIES.

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

DI60XG1-sht-Drain-PlnPrf-02	DESIGNED - AFC	REVISED - △A 2/13/15	
USER NAME = ChuA	DRAWN - AFC	REVISED -	
PLOT SCALE = 100.0000 '/ in.	CHECKED - DBM	REVISED -	
PLOT DATE = 2/13/2015	DATE - 12/05/14	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN AND PROFILE
78" MAIN DRAIN AT INFIELD

SCALE: 1" = 50' | SHEET 1 OF 1 SHEETS | STA. 1830+00.00 TO STA. 1840+00.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	89
		CONTRACT NO. 60X61		
		ILLINOIS FED. AID PROJECT		

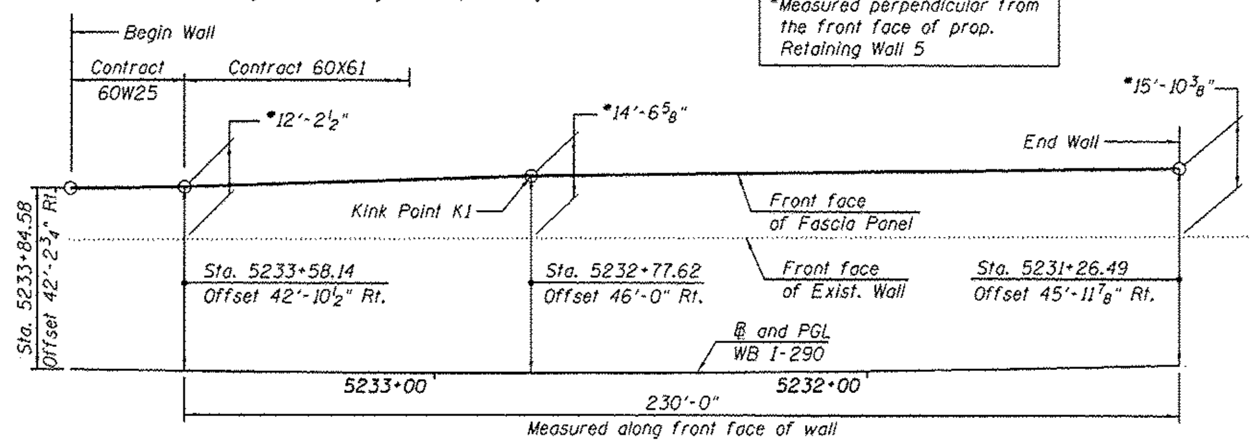
GENERAL NOTES:

1. 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.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Protective Coat shall be applied to exposed surfaces of the parapet and Concrete Sealer shall be applied to exposed surfaces of the facing.
4. Existing utilities in conflict with retaining wall construction shall be abandoned or relocated according to directions given on the roadway plans.
5. Any portions of existing substructure units and retaining wall foundations interfering with the new construction shall be removed.
6. Wall to be built along straight chords between joints.
7. Concrete for Drilled Shaft in Soil at Panels 2, 3 and 4 shall be in accordance with Section 516 of Standard Specifications except that the mix design of concrete shall attain a compressive strength of 7000 psi at 14 days.
8. The Contractor shall exercise extreme caution during existing wall removal and proposed wall construction to make certain that removal/construction activities and loads will not have detrimental effects on the existing 24"φ water main near Sta. 5233+71.66 and other utilities. See Special Provision for Construction Vibration Monitoring.
9. 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.
10. In addition to vibration and displacement monitoring, the contractor shall monitor ground movement by means of slope indicators. At least one inclinometer shall be utilized near each of the buildings adjacent to Retaining Wall 6 (S.N. 016-1725). See Special Provision for Construction Ground Movement Monitoring for details.
11. Some existing CTA foundations were most likely removed or partially removed when the existing exit ramp south retaining wall was originally constructed. Any existing foundation that is within the proposed excavation/limits of construction for the new retaining wall shall be paid for as Foundation Removal and included in the Retaining Wall 6 (SN 016-1725) plans.
12. Slipforming of the parapets is not allowed.
13. 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 will not be compensated for issues related to the groundwater elevation. (A)
14. Piezometer installed at Sta. 5228+89.34, Offset 223' LT; the groundwater is measured at elevation 551.51.
15. The Contractor shall provide a method to assure the soldier piles achieve at least the plan tip elevations. The soldier pile locations and elevations shall meet the tolerances provided in the Special Provisions. Any additional measures required to satisfy the construction tolerances will not be paid for separately but shall be included in Drilling and Setting Soldier Piles (in Soil).

ELEVATIONS TABLE

Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E	Elevation F	Wall Type
5233+58.14	42'-10½"	597.49	593.99	576.31	574.31	589.99	594.55	Drilled Shafts Wall
5233+32.98	43'-11⅝"	597.03	593.53	576.55	574.56	589.53	594.19	
5233+07.82	44'-11⅜"	596.27	592.77	576.81	574.81	588.77	593.43	
5232+77.62**	46'-0"	594.40	590.90	577.15	575.16	586.90	592.18	
5232+77.62***	46'-0"	594.40	590.90	577.15	575.16	-	592.18	Drilled Soldier Piles Wall
5232+47.40	46'-3½"	592.04	588.54	577.51	575.51	-	590.72	
5232+17.17	46'-5⅛"	589.59	586.09	577.81	575.81	-	588.90	
5231+86.94	46'-5⅛"	587.37	583.87	578.12	576.12	-	587.10	
5231+56.72	46'-3⅜"	585.35	581.85	578.42	576.36	-	585.23	
5231+26.49	45'-11⅞"	583.73	580.23	578.60	576.60	-	583.62	

Elevation A- Top of parapet Elevation
Elevation B- Top of Fascia Panel Elevation/ Proposed Grade at Back Face of Fascia Panel
Elevation C- Finish Grade at Front Face of Fascia Panel
Elevation D- Bottom of Fascia Panel/ Top of Encasement Concrete
Elevation E- Bottom of Cap/ Top of Drilled Shaft
Elevation F- Existing grade at Front Face of Fascia Panel
** Elevations just to the left of expansion joint.
*** Elevations just to the right of expansion joint.

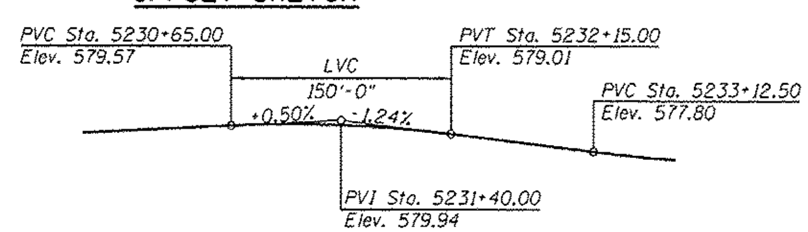


CURVE DATA

(WB I-290)
(Prop. Curve P-IKE-WB-1)

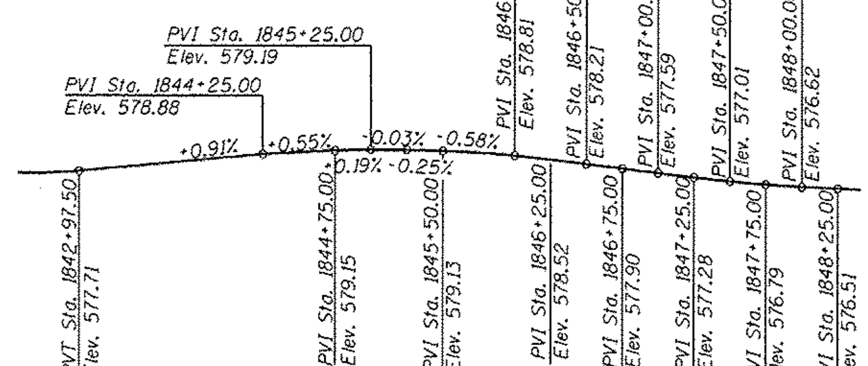
P.I. Sta. = 5236+19.61
Δ = 10° 05' 11.39" (RT)
D = 0° 55' 27"
R = 6,200.00'
T = 547.15'
L = 1,091.46'
E = 24.10'
e = 2.00%
T.R. = 96' and 72'
S.E. Run Attainment = 96', 24' and 50'
S.E. Run Removal = 96' and 24'
P.C. Sta. = 5230+72.47
P.T. Sta. = 5241+63.93

OFFSET SKETCH



PROFILE GRADE

(along ℄ WB I-290)



PROFILE GRADE

(along ℄ Ramp NW)

CURVE DATA

(Ramp NW)
(Prop. Curve P-CIR-NW-7)

P.I. Sta. = 1845+33.13
Δ = 0° 57' 54.93" (RT)
D = 0° 55' 39"
R = 6,177.00'
T = 52.03'
L = 104.06'
E = 0.22'
e = N.C.
T.R. = N/A
S.E. Run = N/A
P.C. Sta. = 1844+81.10
P.T. Sta. = 1845+85.16

TOTAL BILL OF MATERIAL

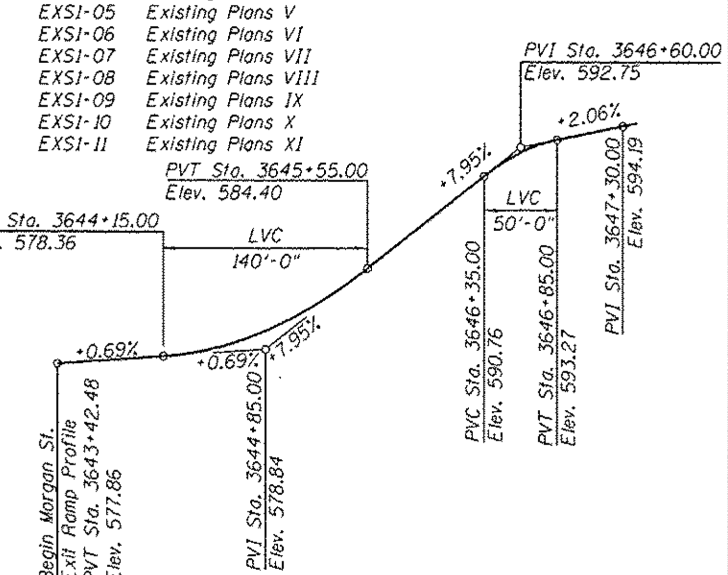
ITEM	UNIT	TOTAL QUANTITY
Removal of Existing Structures No. 1	EACH	1
Structure Excavation	CU YD	534
Concrete Structures	CU YD	185
Concrete Superstructure	CU YD	35
Protective Coat	SQ YD	220
Stud Shear Connectors	EACH	318
Reinforcement Bars	POUND	296,520
Reinforcement Bars, Epoxy Coated	POUND	32,740
Mechanical Splicers	EACH	448
Name Plates	EACH	1
Drilled Shaft in Soil	CU YD	526
Concrete Sealer	SQ FT	2,837
Geocomposite Wall Drain	SQ YD	159
Drilling and Setting Soldier Piles (in Soil)	CU FT	7,168
Crosshole Sonic Logging	EACH	3
Granular Backfill for Structures	CU YD	67
Untreated Timber Lagging	SQ FT	1,851
Furnishing Soldier Piles (W Section)	FOOT	1,180
Pipe Underdrains for Structures, 4"	FOOT	234
Temporary Soil Retention System	SQ FT	2,628

INDEX OF SHEETS

STATION 5233+84.58 TO 5231+26.49
BUILT BY
STATE OF ILLINOIS
F.A.I. RTE. 90/94-SEC. 2013-077R
LOADING HL-93
STRUCTURE NO. 016-1724

NAME PLATE

See Std. 515001



PROFILE GRADE

(along ℄ Morgan St. Exit Ramp)

GENERAL NOTES:

1. 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.

2. Reinforcement bars designated "(E)" shall be epoxy coated.

3. Protective Coat shall be applied to exposed surfaces of the parapet and concrete sealer shall be applied to exposed surfaces of the facing.

4. Existing utilities in conflict with retaining wall construction shall be abandoned or relocated according to directions given on the roadway plans.

5. Any portions of existing substructure units and retaining wall foundations interfering with the new construction shall be removed.

6. Wall to be built along straight chords between joints.

7. Concrete for Drilled Shaft in Soil at Panels 16 and 17 shall be in accordance with Section 516 of Standard Specifications except that the mix design of concrete shall attain a compressive strength of 7000 psi at 14 days.

8. The Contractor shall exercise extreme caution during wall construction to make certain that construction activities, live load surcharge and other loads applied to the wall will not have detrimental effects on the adjacent buildings and utilities. See Special Provision for Construction Vibration Monitoring.

9. 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.

10. In addition to vibration and displacement monitoring, the contractor shall monitor ground movement by means of slope indicators. At least one inclinometer shall be utilized near each of the buildings adjacent to Retaining Wall 6 (S.N. 016-1725). See Special Provision for Construction Ground Movement Monitoring for details.

11. Some existing CTA foundations were most likely removed or partially removed when the existing exit ramp south retaining wall was originally constructed. Any existing foundation that is within the proposed excavation/limits of construction for the new retaining wall shall be removed. This removal shall be paid for as Foundation Removal.

12. Abandoned 5' Brick CTA Water Tunnel was filled with Controlled Low Strength Material (CLSM) during Contract 60W26. A number of the retaining wall drilled soldier piles will be placed through this tunnel. Drilling operations must account for the presence of debris, brick material, CLSM and bedding material in addition to soil and other expected materials to be encountered. Cost shall be included with Foundation Construction at Existing Obstructions.

13. Slipforming of parapet is not allowed.

14. 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 will not be compensated for issues related to the groundwater elevation. (A)

15. Piezometer installed at Sta. 5228+89.34, Offset 223' LT; the groundwater is measured at elevation 551.51.

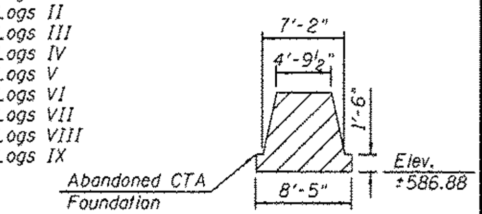
16. The Contractor shall provide a method to assure the soldier piles achieve at least the plan tip elevations. The soldier pile locations and elevations shall meet the tolerances provided in the Special Provisions. Any additional measures required to satisfy the construction tolerances will not be paid for separately but shall be included in Drilling and Setting Soldier Piles (in Soil).

ELEVATIONS TABLE

Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E	Elevation F	Elevation G	Wall Type
5233+21.45	72'-10 7/8"	597.98	593.98	592.80	590.48	-	594.20	594.44	Soldier Piles Wall
5233+01.22	73'-3"	597.86	593.86	591.94	589.45	-	594.01	594.33	
5232+80.98	73'-6 1/2"	597.74	593.74	590.42	588.42	-	593.58	593.81	
5232+50.62	73'-10 1/8"	597.55	593.55	588.14	586.02	-	592.91	593.04	
5232+20.26	74'-0 1/8"	597.37	593.37	585.79	583.62	-	591.66	592.87	
5231+89.90	74'-0 1/4"	597.19	593.19	583.56	581.51	-	590.61	592.69	
5231+59.53	73'-10 5/8"	597.01	593.01	581.57	579.40	-	589.89	592.51	
5231+29.17	73'-7 1/4"	596.83	592.83	580.13	577.96	-	588.99	592.33	
5230+98.98	70'-6 1/2"	596.64	592.64	578.95	576.87	-	586.75	592.15	
5230+68.82	67'-3 7/8"	596.46	592.46	578.51	576.38	-	585.29	591.97	
5230+38.89	65'-11 3/4"	596.28	592.28	578.15	576.12	-	584.35	591.79	
5230+08.89	65'-4 1/4"	596.10	592.10	577.94	575.86	-	584.27	591.61	
5229+78.90	64'-8 5/8"	595.92	591.92	577.73	575.67	-	584.69	591.43	
5229+48.91	64'-0 7/8"	595.74	591.74	577.52	575.47	-	585.32	591.25	
5229+18.91	63'-5 1/4"	595.56	591.56	577.28	575.26	-	586.25	591.07	
5228+88.92*	62'-11 5/8"	595.56	591.56	577.10	575.09	588.56	587.15	591.33	
5228+88.92**	62'-11 5/8"	598.56	594.56	577.10	575.09	588.56	587.15	591.33	Drilled Shafts Wall
5228+58.92	62'-6"	598.56	594.56	577.01	574.92	588.56	587.99	592.36	
5228+28.92	62'-0 3/8"	598.56	594.56	577.25	575.24	588.56	588.83	593.39	

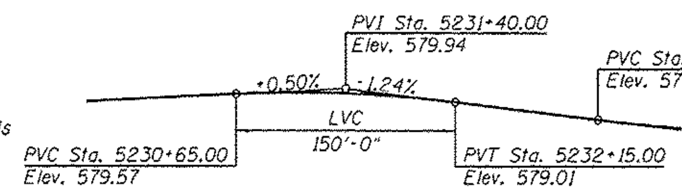
Elevation A- Top of Parapet
Elevation B- Top of Fascia Panel
Elevation C- Finish Grade at Front Face of Fascia Panel
Elevation D- Bottom of Fascia Panel / Top of Encasement Concrete
Elevation E- Bottom of Cap / Top of Drilled Shaft
Elevation F- Existing Grade at Front Face of Fascia Panel
Elevation G- Grade at Back Face of Fascia Panel / Top of Type "B" Gutter
* Elevations just to the left of expansion joint.
** Elevations just to the right of expansion joint.

INDEX OF SHEETS



ABANDONED CTA FOUNDATION REMOVAL

(See General Note 11)



PROFILE GRADE

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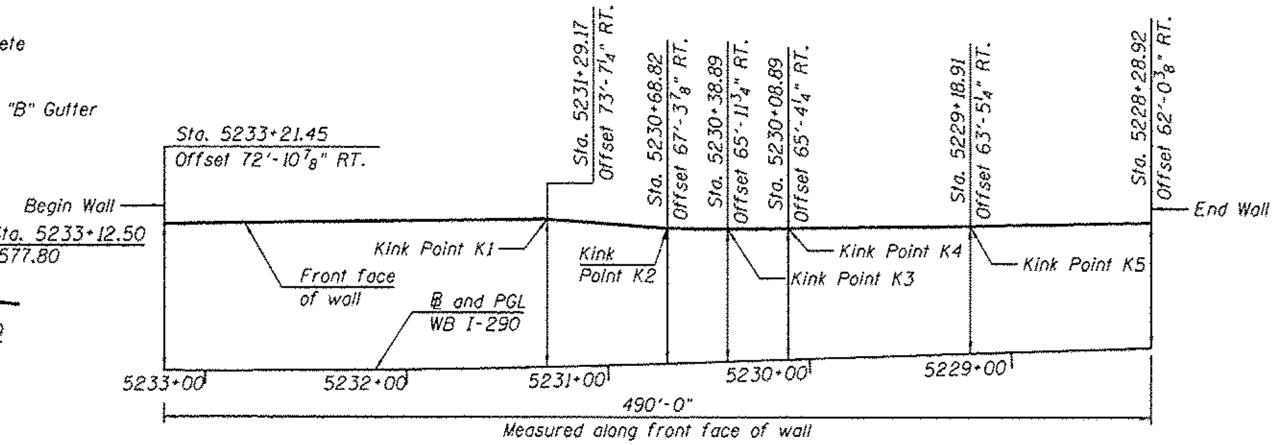

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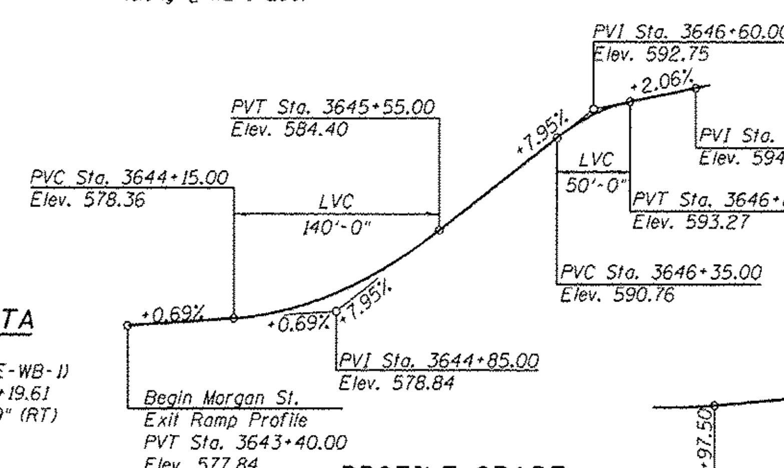


PROFILE GRADE

(along ℄ Morgan St. Exit Ramp)

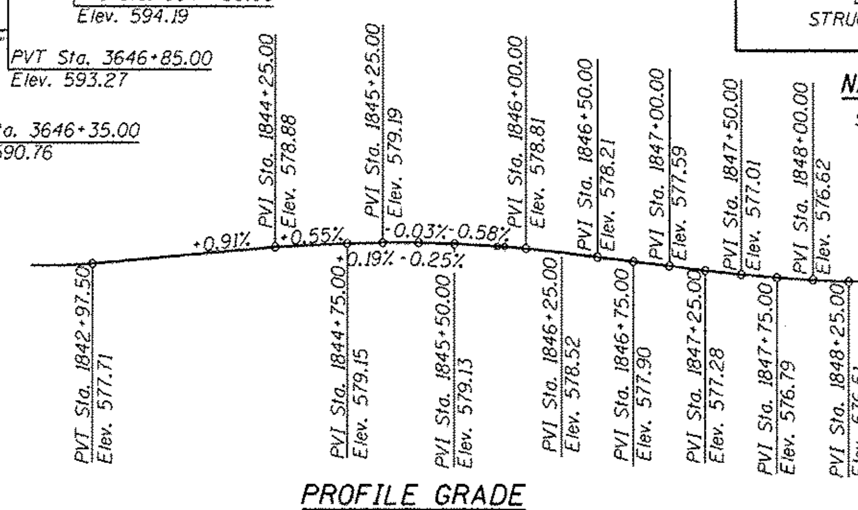
STATION 5233+21.45 TO 5228+28.92
BUILT BY
STATE OF ILLINOIS
F.A.I RTE. 290 SEC 2013-077R
LOADING HL-93
STRUCTURE NO. 016-1725

NAME PLATE

See Std. 515001

CURVE DATA

(WB I-290)
(Prop. Curve P-IKE-WB-1)
P.I. Sta. = 5236+19.61
Δ = 10° 05' 11.39" (RT)
D = 0° 55' 27"
R = 6,200.00'
T = 547.15'
L = 1,091.46'
E = 24.10'
e = 2.00%
T.R. = 96' and 72'
S.E. Run Attainment = 96', 24' and 50'
S.E. Run Removal = 96' and 24'
P.C. Sta. = 5230+72.47
P.T. Sta. = 5241+63.93



PROFILE GRADE

(along ℄ Ramp NW)

CURVE DATA

(Ramp NW)
(Prop. Curve P-CIR-NW-7)
P.I. Sta. = 1845+33.13
Δ = 0° 57' 54.93" (RT)
D = 0° 55' 39"
R = 6,177.00'
T = 52.03'
L = 104.06'
E = 0.22'
e = N.C.
T.R. = N/A
S.E. Run = N/A
P.C. Sta. = 1844+81.10
P.T. Sta. = 1845+85.16

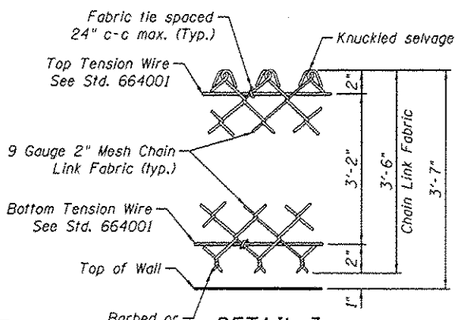
GENERAL NOTES:

1. All exposed concrete edges shall have a $\frac{3}{4}$" x 45° chamfer, except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of one foot below finished ground level.
2. Reinforcement bars designated "(E)" shall be epoxy coated.
3. Dimensions and details relative to adjacent existing features have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of work. However, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
4. 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 will not be compensated for issues related to the groundwater elevation.
5. Piezometer installed at Sta. 5228+89.34, Offset 223'-0" Lt.; the groundwater is measured at Elevation 551.51.
6. The Contractor shall provide a method to assure the soldier piles achieve at least the plan tip elevations. Piles ending in soft clay layer or extending below it may need special measures. The soldier pile locations and elevations shall meet the tolerances provided in the Special Provisions. Any additional measures required to satisfy the construction tolerances will not be paid for separately but shall be included in Drilling and Setting Soldier Piles (in Soil).

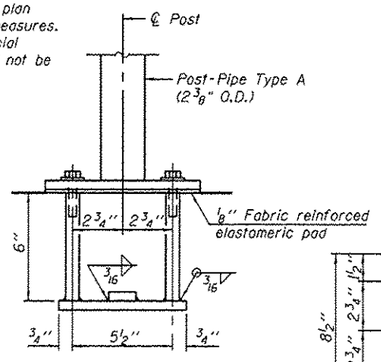
TOTAL BILL OF MATERIAL:

DESCRIPTION	UNIT	SN 016-1726	SN 016-Z030	TOTAL
STRUCTURE EXCAVATION	CU YD	956	131	1,087
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD		146	146
GRANULAR EMBANKMENT, SPECIAL	CU YD		146	146
CONCRETE STRUCTURES	CU YD	326	62	388
CONCRETE SUPERSTRUCTURE	CU YD		20	20
PROTECTIVE COAT	SQ YD		47	47
STUD SHEAR CONNECTORS	EACH	1,271		1,271
REINFORCEMENT BARS, EPOXY COATED	POUND	61,060	10,500	71,560
NAME PLATES	EACH	1	1	2
CONCRETE SEALER	SQ FT	8,729		8,729
GEOCOMPOSITE WALL DRAIN	SQ YD	220		220
DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU FT	45,245		45,245
UNTREATED TIMBER LAGGING	SQ FT	6,794		6,794
FURNISHING SOLDIER PILES (W SECTION)	FOOT	4,646		4,646
TEMPORARY SOIL RETENTION SYSTEM	SQ FT		2,710	2,710
PIPE UNDERDRAIN FOR STRUCTURES 4"	FOOT	659		659
CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL)	FOOT	644		644

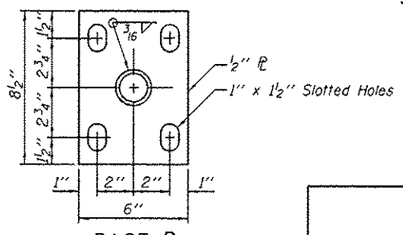
INDEX OF SHEETS:



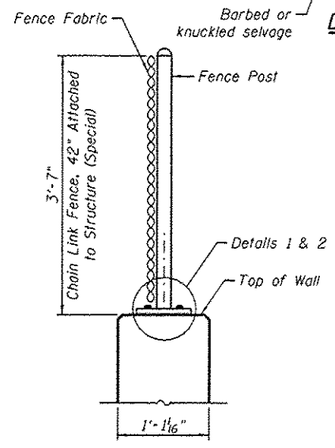
DETAIL 3



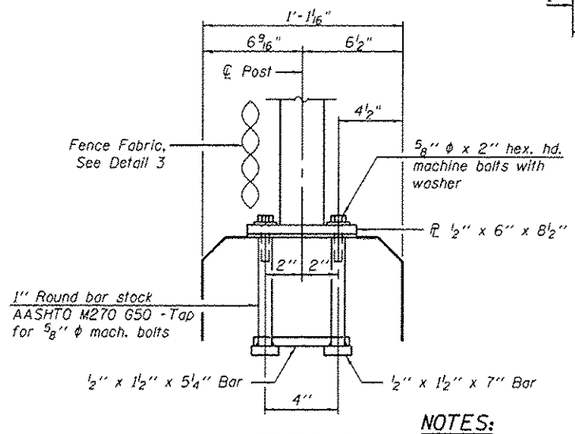
DETAIL 2



BASE ℄



TYPICAL CHAIN LINK FENCE SECTION



DETAIL 1

ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting $\frac{5}{8}$" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

NOTES:

1. For additional chain link fence details, see Standard 664001.
2. Base plate and anchor bolts shall be included with Chain Link Fence, 42" Attached to Structure (Special) pay item.

STATION 5239+76.00 TO 5246+20.00
BUILT BY
STATE OF ILLINOIS
F.A.I. RTE. 290-SEC. 2013-077R
LOADING HL-93
STRUCTURE NO. 016-1726

NAME PLATE - SN 016-1726
See Std. 515001

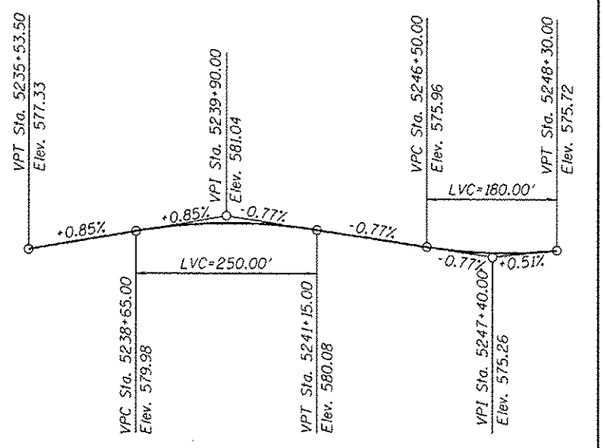
STATION 5239+00.00 TO 5240+10.00
BUILT BY
STATE OF ILLINOIS
F.A.I. RTE. 290-SEC. 2013-077R
LOADING HL-93
STRUCTURE NO. 016-Z030

NAME PLATE - SN 016-Z030
See Std. 515001

CURVE DATA
(I-290 WB)

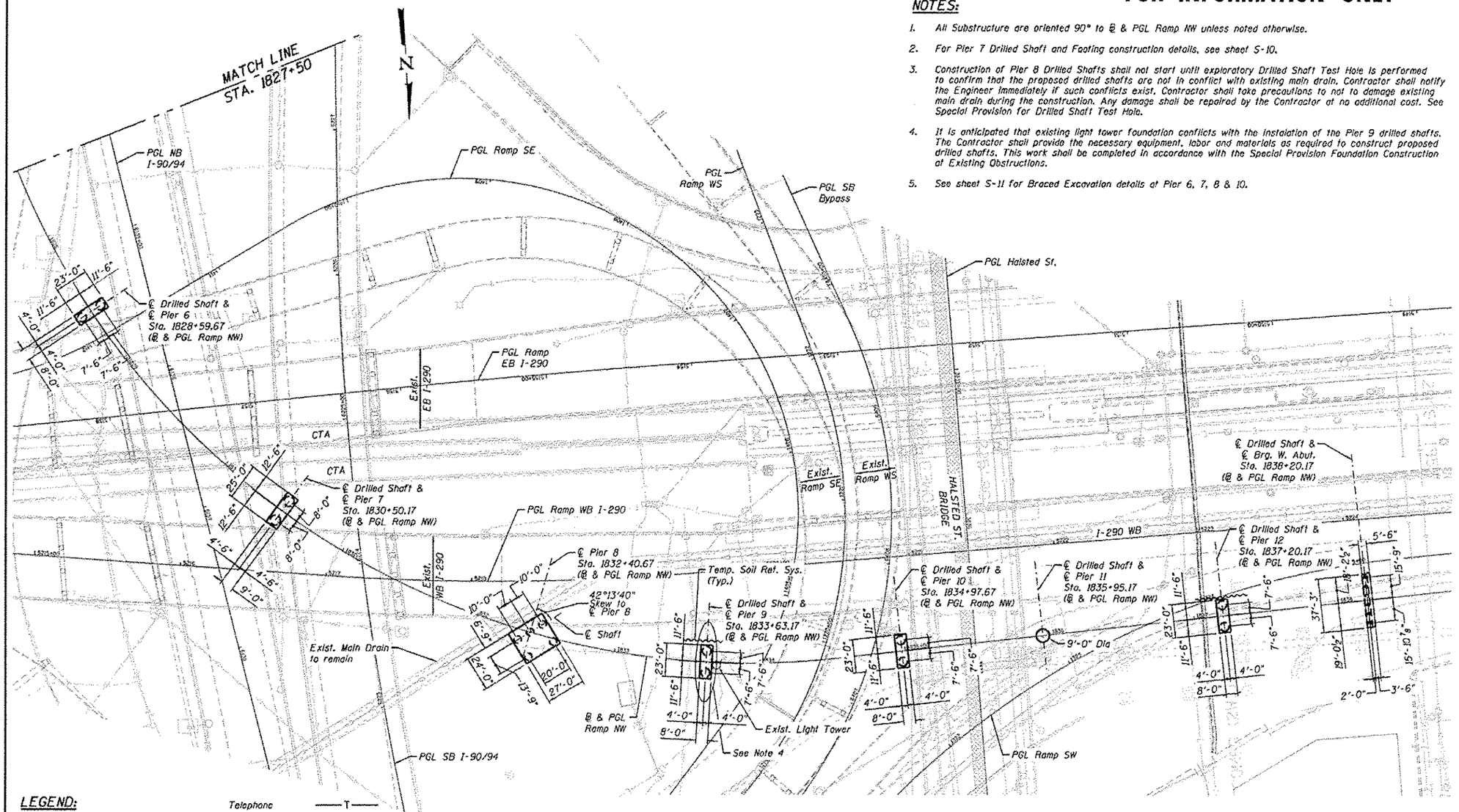
Prop. Curve P-IKE-WB-1
P.I. Sta. 5236+19.61
Δ = 10°05'11.39" (Rt.)
D = 0°55'26.85"
R = 6,200.00'
T = 547.15'
L = 1,091.46'
E = 24.10'
P.C. Sta. = 5230+72.47
P.T. Sta. = 5241+63.93

For Information Only. Part of Future Contract



PROFILE GRADE
(along ℄ I-290 WB)

FOR INFORMATION ONLY



NOTES:

1. All Substructure are oriented 90° to ℄ & PGL Ramp NW unless noted otherwise.
2. For Pier 7 Drilled Shaft and Footing construction details, see sheet S-10.
3. Construction of Pier 8 Drilled Shafts shall not start until exploratory Drilled Shaft Test Hole is performed to confirm that the proposed drilled shafts are not in conflict with existing main drain. Contractor shall notify the Engineer immediately if such conflicts exist. Contractor shall take precautions to not to damage existing main drain during the construction. Any damage shall be repaired by the Contractor at no additional cost. See Special Provision for Drilled Shaft Test Hole.
4. It is anticipated that existing light tower foundation conflicts with the installation of the Pier 9 drilled shafts. The Contractor shall provide the necessary equipment, labor and materials as required to construct proposed drilled shafts. This work shall be completed in accordance with the Special Provision Foundation Construction at Existing Obstructions.
5. See sheet S-11 for Braced Excavation details at Pier 6, 7, 8 & 10.

LEGEND:

Combined Sewer	——C——C——C——	Telephone	——T——
Electric	——E——	Water Line	——W——
Fiber Optic	——FO——	Gas Line	——G——
Storm Sewer	——▭——▭——	Fire Hydrant	♂
		Light Pole	☼

SUBSTRUCTURE LAYOUT PLAN

D:\51705-60W28-3009-SubStructr.dgn

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		CHECKED - DD	REVISED
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	PLOT DATE = 5/7/2014	CHECKED - ATB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE LAYOUT II
STRUCTURE NO. 016-1705
SHEET NO. S-9 OF S-165 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	325
		CONTRACT NO. 60W28		
		ILLINOIS FED. AID PROJECT		

A

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

D160X61-sht-AsBuilt-87.dgn	DESIGNED - OPS	REVISED - ⚠ 2/13/15	
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PLOT SCALE = 2.0000 ' / in.	CHECKED - DBM	REVISED -	
PLOT DATE = 2/12/2015	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING SUBSTRUCTURE LAYOUT II
STRUCTURE NO. 016-1705 (FOR INFORMATION ONLY)
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

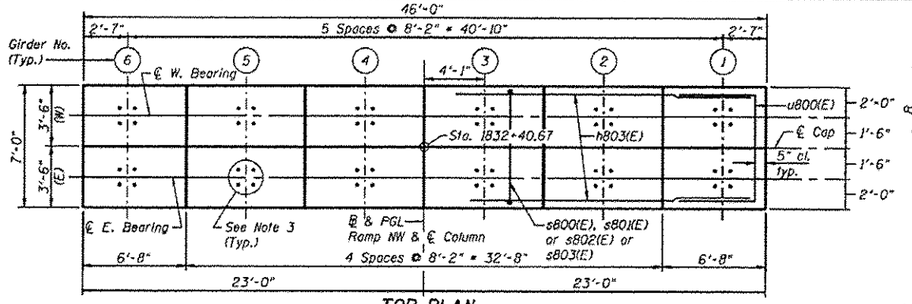
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	268E
		CONTRACT NO. 60X61		
		ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY

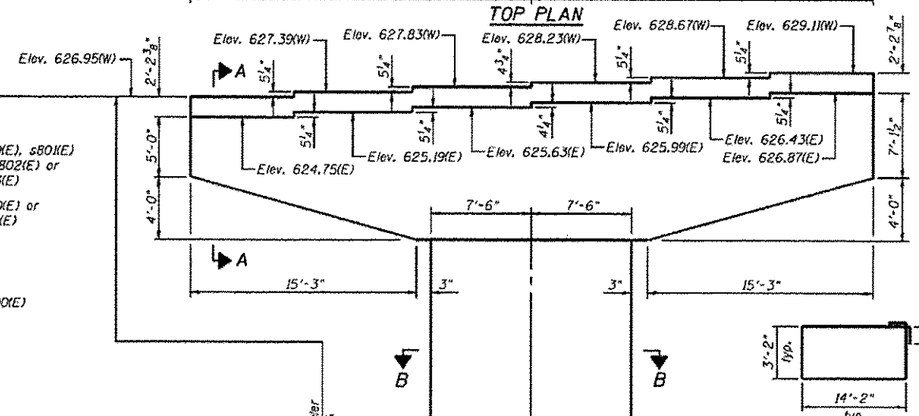
NOTES:

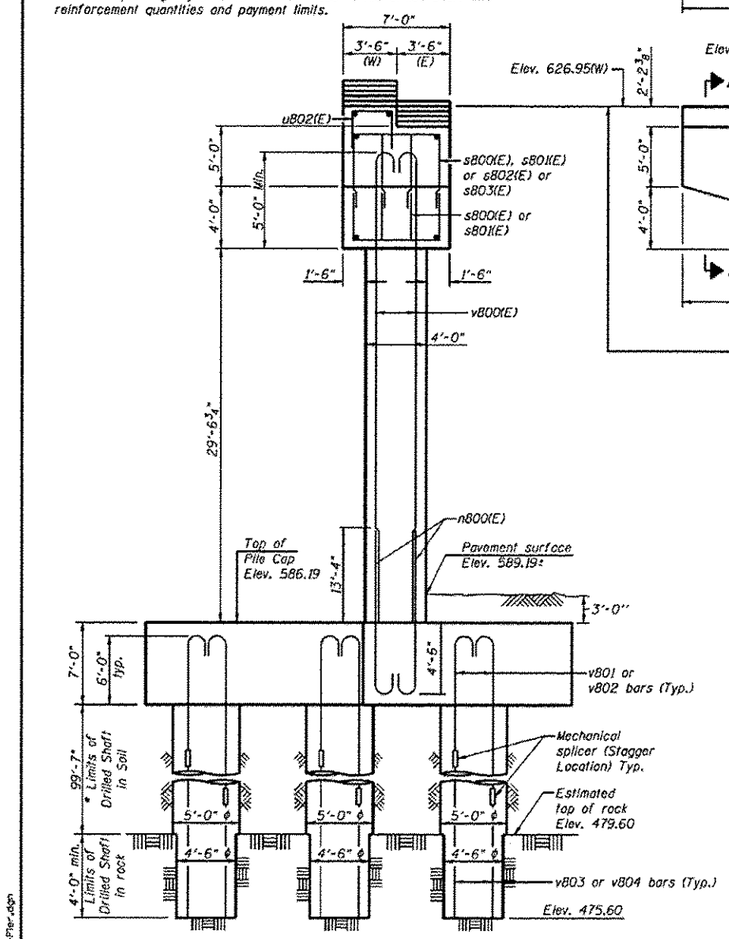
1. Pour steps monolithically with cap.
2. ℄ of Pier is radial to ℄ Ramp NW at Sta. 1832+40.67.
3. For Anchor Bolts Details see sheets S-108 & S-109.
4. For Architectural Details see sheets S-143 thru S-145.
5. See sheet S-133 & S-134 for Sections and Details.
6. (W)-West Girder, (E)-East Girder.
7. Concrete for Pier 8 shall be in accordance with Section 503 of Standard Specifications except that the max. design of concrete shall attain a compressive strength of 5,000 psi at 14 days.

* 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.

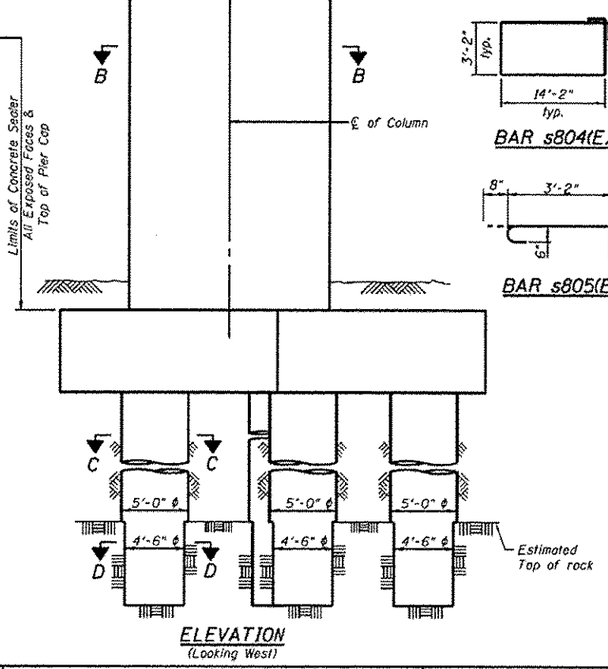


TOP PLAN





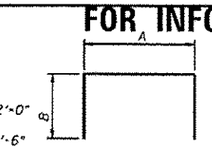
END VIEW



ELEVATION
(Looking West)

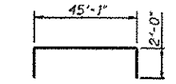
BAR s804(E)

BAR s805(E)

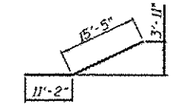


BARS A & B DIMENSIONS

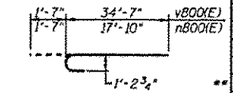
Bar	A	B
s800(E)	3'-8"	4'-7"
s801(E)	3'-8"	5'-6"
s802(E)	3'-8"	6'-8"
s803(E)	6'-2"	6'-8"
t800(E)	23'-4"	3'-3"
w800(E)	26'-4"	3'-3"
u800(E)	6'-0"	4'-0"
u801(E)	2'-11"	1'-0"
u802(E)	2'-11"	3'-6"
u804(E)	23'-6"	4'-0"



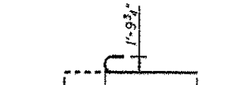
BAR p800(E)



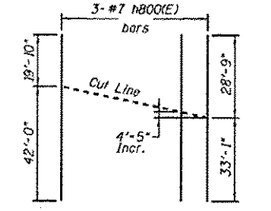
BAR p801(E)



BAR v800(E) & BAR n800(E)



BARS v801 & v802



FIELD CUTTING DIAGRAM

Order h800(E) bars full length.
Cut as shown and use remainder of bars

MIN. LAP LENGTH

#6 bars: 3'-10"
#8 bars: 6'-9"
#11 bars: 13'-4"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h800(E)	6	#7	61'-10"	
h801(E)	22	#7	45'-2"	
h802(E)	20	#5	7'-2"	
h803(E)	15	#5	6'-1"	
h804(E)	20	#5	22'-0"	
h805(E)	5	#5	14'-3"	
h806(E)	22	#7	26'-6"	
n800(E)	60	#11	19'-5"	
p800(E)	18	#11	49'-1"	
p801(E)	20	#8	27'-7"	
s800(E)	16	#6	12'-10"	
s801(E)	28	#6	14'-6"	
s802(E)	84	#6	17'-6"	
s803(E)	28	#6	19'-6"	
s804(E)	29	#6	20'-4"	
s805(E)	174	#6	4'-10"	
sp800	5	#6	103'-10"	
t800(E)	154	#11	29'-10"	
u800(E)	22	#7	14'-0"	
u801(E)	46	#6	4'-11"	
u802(E)	46	#6	9'-11"	
u804(E)	22	#7	31'-6"	
v800(E)	60	#11	36'-2"	
v801	70	#14	57'-10"	
v802	70	#14	51'-10"	
v803	70	#14	54'-0"	
v804	70	#14	60'-0"	
w800(E)	96	#11	32'-10"	

Concrete Structures	Cu. Yd.	351.1
Reinforcement Bars, Epoxy Coated	Pound	78,970
Reinforcement Bars	Pound	140,480
Drilled Shaft In Soil	Cu. Yd.	362.1
Drilled Shaft In Rock	Cu. Yd.	11.8
Concrete Sealer	Sq. Ft.	2,736
Braced Excavation	Cu. Yd.	363.3
Crosshole Sonic Logging	Each	1

** Length is height of spiral.

AECOM

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	CHECKED - ATB	REVISED	
PLOT SCALE = N.T.S.	DRAWN - BM	REVISED	
PLOT DATE = 5/7/2014	CHECKED - RD	REVISED	

D161T05-60W28-S132-Pier.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 8 – PLAN AND ELEVATION
STRUCTURE NO. 016-1705
SHEET NO. S-132 OF S-165 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	448
		CONTRACT NO. 60W28		
		ILLINOIS FED. AID PROJECT		

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AECOM
303 EAST WACKER DRIVE, SUITE 1400
CHICAGO, IL 60601-5276
PHONE: (312) 373-1700 FAX: (312) 373-6800

D160X61-sht-AsBuilt-88.dgn	DESIGNED - OPS	REVISED - ⚠ 2/13/15	
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PLOT SCALE = 2.0000 ' / in.	CHECKED - DBM	REVISED -	
PLOT DATE = 2/13/2015	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING SUBSTRUCTURE LAYOUT II
STRUCTURE NO. 016-1705 (FOR INFORMATION ONLY)
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

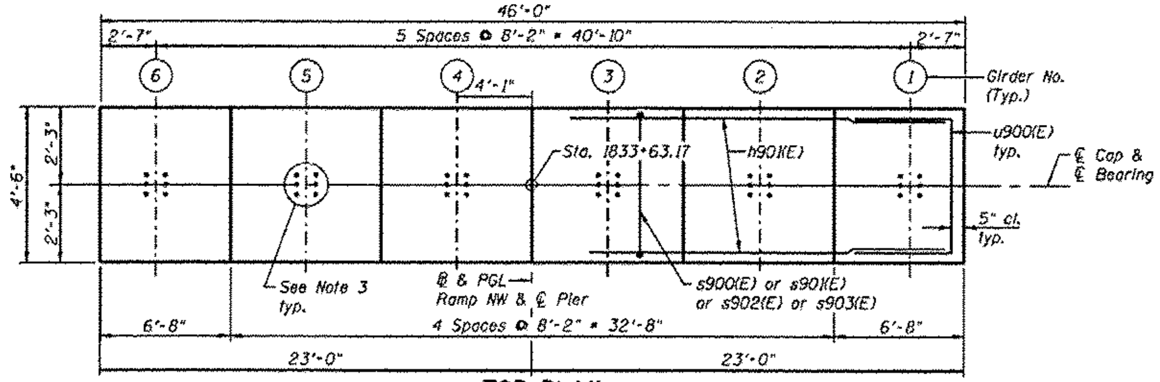
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	268F
		CONTRACT NO. 60X61		
		ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY

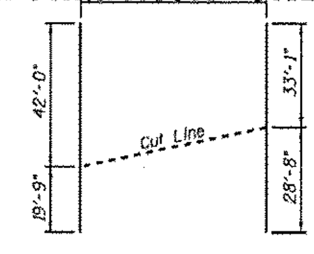
NOTES:

1. Pour steps monolithically with cap.
2. ℄ of Pier is radial to ℄ Ramp NW at Sta. 1833+63.17.
3. For Anchor Bolts Details see sheets S-110 & S-111.
4. For Architectural Details see sheets S-143 thru S-145.
5. See sheet S-136 for Sections and Details.

* 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.

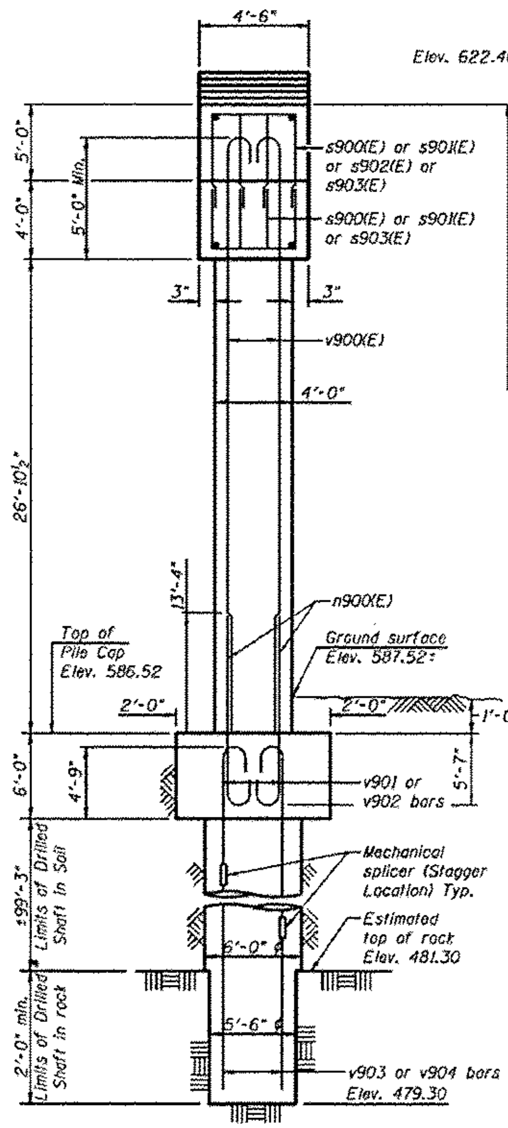


TOP PLAN

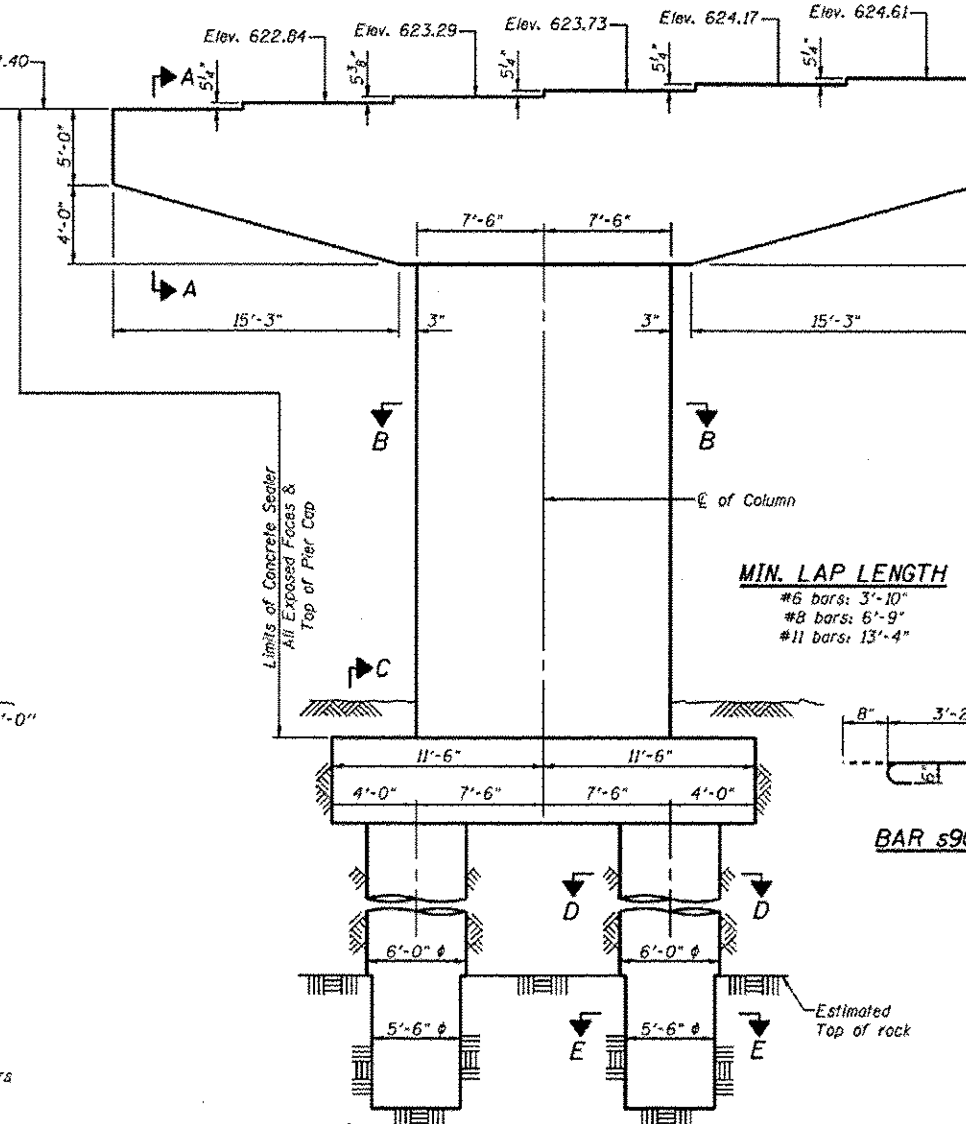


FIELD CUTTING DIAGRAM

Order h900(E) bars full length. Cut as shown and use remainder of bars.

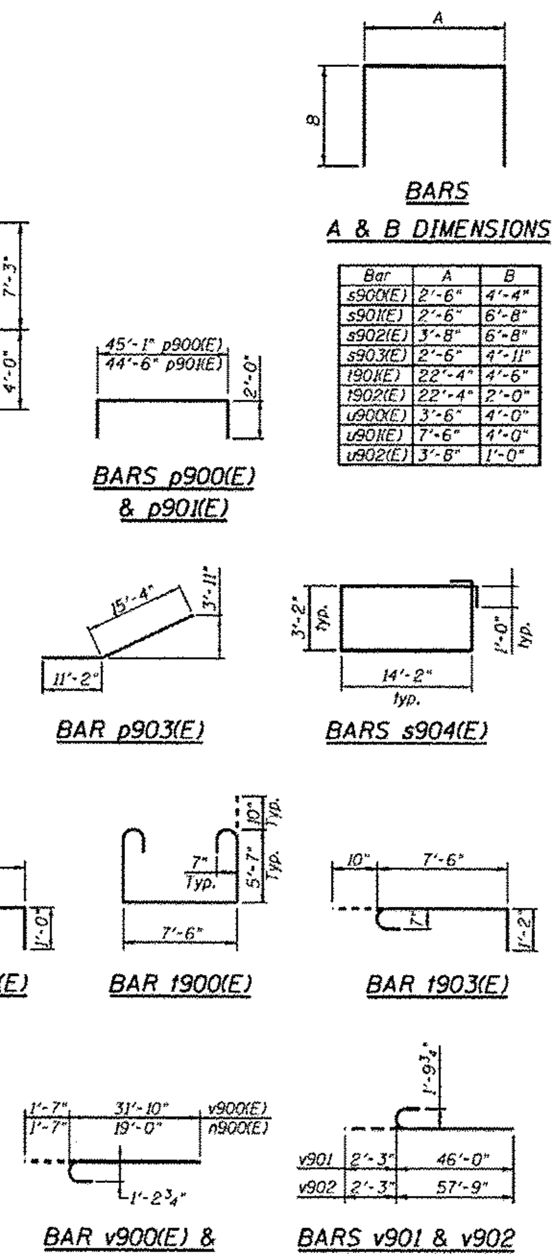


END VIEW



ELEVATION

(Looking West)



MIN. LAP LENGTH

- #6 bars: 3'-10"
- #8 bars: 6'-9"
- #11 bars: 13'-4"

BARS

A & B DIMENSIONS

Bar	A	B
s900(E)	2'-6"	4'-4"
s901(E)	2'-6"	6'-8"
s902(E)	3'-8"	6'-8"
s903(E)	2'-6"	4'-11"
1901(E)	22'-4"	4'-6"
1902(E)	22'-4"	2'-0"
u900(E)	3'-6"	4'-0"
u901(E)	7'-6"	4'-0"
u902(E)	3'-8"	1'-0"

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h900(E)	6	#7	61'-9"	
h901(E)	18	#7	45'-2"	
h902(E)	14	#7	22'-6"	
h903(E)	24	#5	7'-10"	
h904(E)	12	#5	6'-1"	
n900(E)	56	#11	20'-7"	
p900(E)	8	#11	49'-1"	
p901(E)	8	#11	48'-6"	
p902(E)	8	#11	43'-8"	
p903(E)	12	#8	26'-6"	
s900(E)	20	#6	11'-2"	
s901(E)	192	#6	15'-10"	
s902(E)	28	#6	17'-0"	
s903(E)	36	#6	12'-4"	
s904(E)	27	#6	36'-8"	
s905(E)	162	#6	4'-10"	
** sp900	2	#6	101'-6"	
1900(E)	31	#7	20'-4"	
1901(E)	20	#11	31'-4"	
1902(E)	13	#11	26'-4"	
1903(E)	31	#7	9'-6"	
u900(E)	18	#6	11'-6"	
u901(E)	14	#7	15'-6"	
u902(E)	47	#6	5'-8"	
v900(E)	56	#11	33'-5"	
v901	20	#14	48'-3"	
v902	20	#14	60'-0"	
v903	20	#14	48'-3"	
v904	20	#14	60'-0"	
Concrete Structures			Cu. Yd.	167.9
Reinforcement Bars, Epoxy Coated			Pound	43,400
Reinforcement Bars			Pound	43,170
Drilled Shaft in Soil			Cu. Yd.	207.9
Drilled Shaft in Rock			Cu. Yd.	3.5
Concrete Sealer			Sq. Ft.	2,243
Structure Excavation			Cu. Yd.	114.2
Crosshole Sonic Logging			Each	1

** Length is height of spiral.

AECOM

USER NAME = floreso	DESIGNED - RD	REVISED
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - BM	REVISED
PLOT DATE = 5/7/2014	CHECKED - RD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 9 – PLAN AND ELEVATION
STRUCTURE NO. 016-1705

SHEET NO. S-135 OF S-165 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	450
		CONTRACT NO. 60W28		
	ILLINOIS FED. AID PROJECT			

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 = 2/12/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PIER 9 – PLAN AND ELEVATION
STRUCTURE NO. 016-1705 (FOR INFORMATION ONLY)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-077R	COOK	317	268G
		CONTRACT NO. 60X61		
	ILLINOIS FED. AID PROJECT			