

90% FED,
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE							HIGHWAY LIGHTING 0021 URBAN	NOISE WALL 0040 NONE
				ROADWAY 0004 URBAN	BRIDGE 0008 016-1705	RETAINING WALL 0040 016-1720	RETAINING WALL 0040 016-2024	RETAINING WALL 0040 016-1722	RETAINING WALL 0040 016-1723	RETAINING WALL 0040 016-1809		
50157300	PROTECTIVE SHIELD	SO YD	2654		2654							
50200100	STRUCTURE EXCAVATION	CU YD	3870	△	263	1108		870	101	1528	△	
50300225	CONCRETE STRUCTURES	CU YD	2857		2646				211			
50300254	RUBBED FINISH	SO FT	14,936		14,936							
50300255	CONCRETE SUPERSTRUCTURE	CU YD	4025.1		3172	402		245	55	151.1		
X5030260	BRIDGE DECK GROOVING (SPECIAL)	SO YD	9304		9202	44		29	29			
50300285	FORM LINER TEXTURED SURFACE	SO FT	8844		8844							
50300300	PROTECTIVE COAT	SO YD	13701		11869	960		590	130	152		
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1							
50500505	STUD SHEAR CONNECTORS	EACH	38821		38436				385			
50800105	REINFORCEMENT BARS	POUND	707,240		707,240							
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,809,745	8225	1,619,620	60520		35800	68860	16720		
50800515	BAR SPLICERS	EACH	78		78							
50800530	MECHANICAL SPLICERS	EACH	724		724							

* DENOTES SPECIALTY ITEM * * DENOTES NON-PARTICIPATING ITEM

△ Rev. 6-30-14

Rev.

FILE PATH: C:\Users\jellison\Documents\Projects\60W28\Sheet5\0160W28-sh5-500.dgn



0160W28-sh5-500.dgn
 USER NAME: jellison
 PLOT SCALE: 2.0000 / in.
 PLOT DATE: 04/28/2014

DESIGNED - NSA
 DRAWN - NSA
 CHECKED - AFC
 DATE - 04/28/14

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 5 OF 24 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 9
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

90% FED.
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	ROADWAY	BRIDGE	RETAINING WALL	RETAINING WALL	RETAINING WALL	RETAINING WALL	RETAINING WALL	HIGHWAY LIGHTING	NOISE WALL
				0004 URBAN	0008 016-1705	0040 016-1720	0040 016-Z024	0040 016-1722	0040 016-1723	0040 016-1809	0021 URBAN	0040 NONE
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	8535	8535								
66900205	SPECIAL WASTE DISPOSAL	CU YD										
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1								
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	5	5								
67100100	MOBILIZATION	L SUM	1	1								
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	675	675								
70106800	CHANGEABLE MESSAGE SIGN	CAL MD	100	100								
70300100	SHORT TERM PAVEMENT MARKING	FOOT	118,448	118,448								
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	963	963								
70300560	PAVEMENT MARKING TAPE, TYPE III 12"	FOOT	469	469								
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	89230	89230								
70400100	TEMPORARY CONCRETE BARRIER	FOOT	8626	8626								
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	9323	9323								
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	18	18								
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	28	28								
70600290	IMPACT ATTENUATORS, TEMPORARY (SEVERE USE WIDE), TEST LEVEL 3	EACH	2	2								
* 72000200	SIGN PANEL - TYPE 2	SQ FT	56	56								
* 70600360	IMPACT ATTENUATORS, RELOCATE (SEVERE USE), TEST LEVEL 3	EACH	4	4								

* DENOTES SPECIALTY ITEM ** DENOTES NON-PARTICIPATING ITEM

Rev 6-30-14

Rev 6-10-14

Rev 6-2-14



016W28-shi-500.dgn
USER NAME = alizadehn
PLOT SCALE = 2.0000 1/1 in.
PLOT DATE = 4/28/2014

DESIGNED - NSA
DRAWN - NSA
CHECKED - AFC
DATE - 04/28/14

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 11 OF 24 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	15
CONTRACT NO. 60W28				

ILLINOIS FED. AID PROJECT

FILE PATH = C:\Users\alizadehn\Documents\Projects\Final Sheets\016W28-shi-500.dgn

90% FED.
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE							HIGHWAY LIGHTING	NOISE WALL
				ROADWAY	BRIDGE	RETAINING WALL	RETAINING WALL	RETAINING WALL	RETAINING WALL	RETAINING WALL		
				0004	0008	0040	0040	0040	0040	0040		
				URBAN	016-1705	016-1720	016-2024	016-1722	016-1723	016-1809	0021	0040
											URBAN	NONE
* 81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	736									
				A								A
* 81100605	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	1020									
* 81100805	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	20									
* 81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	10,644									
* 81300320	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 8" X 8" X 6"	EACH	4									
* 81300410	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 10" X 8" X 4"	EACH	4									
* 81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	1									
* 81300830	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	3									
* 81300910	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 20" X 20" X 6"	EACH	6									
* 81301500	JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 28" X 12" X 6"	EACH	15									
* 81400100	HANDHOLE	EACH	6									
* 81400200	HEAVY-DUTY HANDHOLE	EACH	6									
* 81603050	UNIT DUCT, 600V, 3-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	265									
* 81603070	UNIT DUCT, 600V, 2-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	550									
* 81603081	UNIT DUCT, 600V, 3-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	1890									

* DENOTES SPECIALTY ITEM

** DENOTES NON-PARTICIPATING ITEM

Rev. 6-30-14

Rev. 6-2-14



0160W28-011-900.dgn
 USER NAME = alizadeh
 PLOT SCALE = 2,0000 / in.
 PLOT DATE = 4/28/2014

DESIGNED - NSA
 DRAWN - NSA
 CHECKED - AFC
 DATE - 04/28/14

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE:	SHEET 14	OF 24 SHEETS	STA.	TO STA.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					90/94/290	2013-010R	COOK	747	18
								CONTRACT NO. 60W28	
ILLINOIS FED. AID PROJECT									

FILE PATH = C:\Users\alid\OneDrive\Documents\Projects\14160W28-011-900.dgn

90% FED.
10% STATE

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITY	CONSTRUCTION CODE							HIGHWAY LIGHTING	NOISE WALL
				ROADWAY 0004 URBAN	BRIDGE 0008 016-1705	RETAINING WALL 0040 016-1720	RETAINING WALL 0040 016-Z024	RETAINING WALL 0040 016-1722	RETAINING WALL 0040 016-1723	RETAINING WALL 0040 016-1809		
* X0322443	TONE EQUIPMENT - 3 FREQUENCY TRANSMITTER PROGRAMMABLE	EACH	7								7	
* X0322444	TONE EQUIPMENT - POWER SUPPLY	EACH	1								1	
* X0322445	TONE EQUIPMENT - MOUNTING FRAME	EACH	1								1	
X0324013	NOISE ABATEMENT WALL, STRUCTURE MOUNTED	SO FT	1456									1456
* X0324181	DISCONNECT SIGN LIGHTING AND REMOVE WIRING TO NEAREST SPLICE	EACH	2								2	
X0324345	COMBINED SEWER REMOVAL 24"	FOOT	140	140								
X0324455	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU FT	25,533						25,533			
X0325003	REMOVE EXISTING VALVE AND VAULT	EACH	3	3								
X0325087	VIDEO TAPING OF MAIN DRAIN	FOOT	7320	7320								
* X0325095	MAIN DRAIN CLEANING	FOOT	2740	2740								
* X0325207	TELEVISION INSPECTION OF SEWER	FOOT	1180	1180								
X0325318	LIGHTWEIGHT CELLULAR CONCRETE FILL	CU YD	18,552		9460		5902	136	3054			
X0325349	TEMPORARY CONCRETE BARRIER (TO REMAIN PERMANENTLY)	FOOT	962.5	962.5								
* X0325815	REMOVE EXISTING CABLE	FOOT	160								160	

* DENOTES SPECIALTY ITEM

** DENOTES NON-PARTICIPATING ITEM

Rev. 6-30-14

Rev. 6-2-14

Rev.



0150W28-ah-300.dgn
 USER NAME * alicedehn
 PLOT SCALE * 2.0000' / in.
 PLOT DATE * 4/28/2014

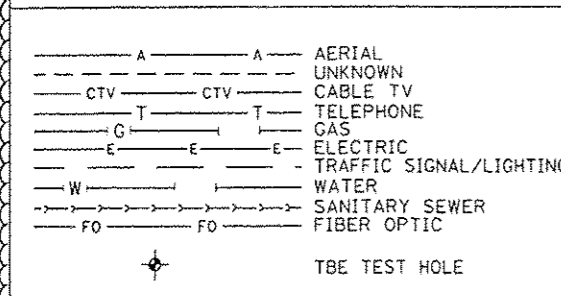
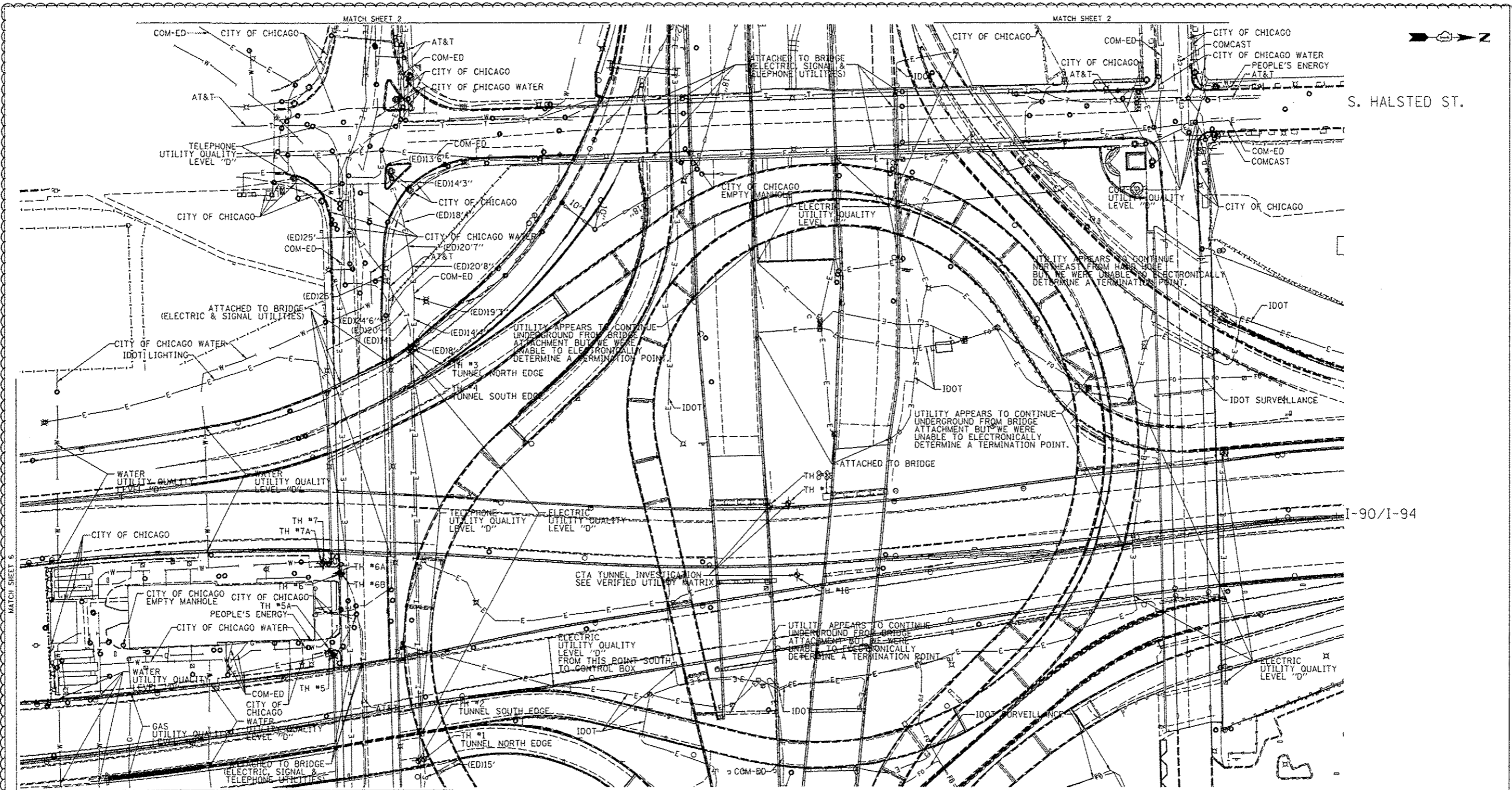
DESIGNED - NSA
 DRAWN - NSA
 CHECKED - AFC
 DATE - 04/28/14

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 SCALE: SHEET 18 OF 24 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290
 SECTION 2013-010R
 COUNTY COOK
 TOTAL SHEETS 747
 SHEET NO. 21A
 CONTRACT NO. 60W28
 ILLINOIS FED. AID PROJECT

FILE PATH: C:\Users\alicedehn\OneDrive\Projects\60W28-ah-300.dgn



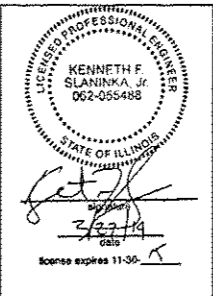
UTILITY OWNERS

AT&T = TELEPHONE
 COM-ED = ELECTRIC
 CITY OF CHICAGO = ELECTRIC
 CITY OF CHICAGO WATER = WATER
 IDOT = ELECTRIC
 IDOT SURVEILLANCE = 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 3/25/14. 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.

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



Cardno TBE

Dynasty Group
Engineers & Surveyors

TBE Job No. 1109510531, 563
SUE Plan Page: 3 of 6

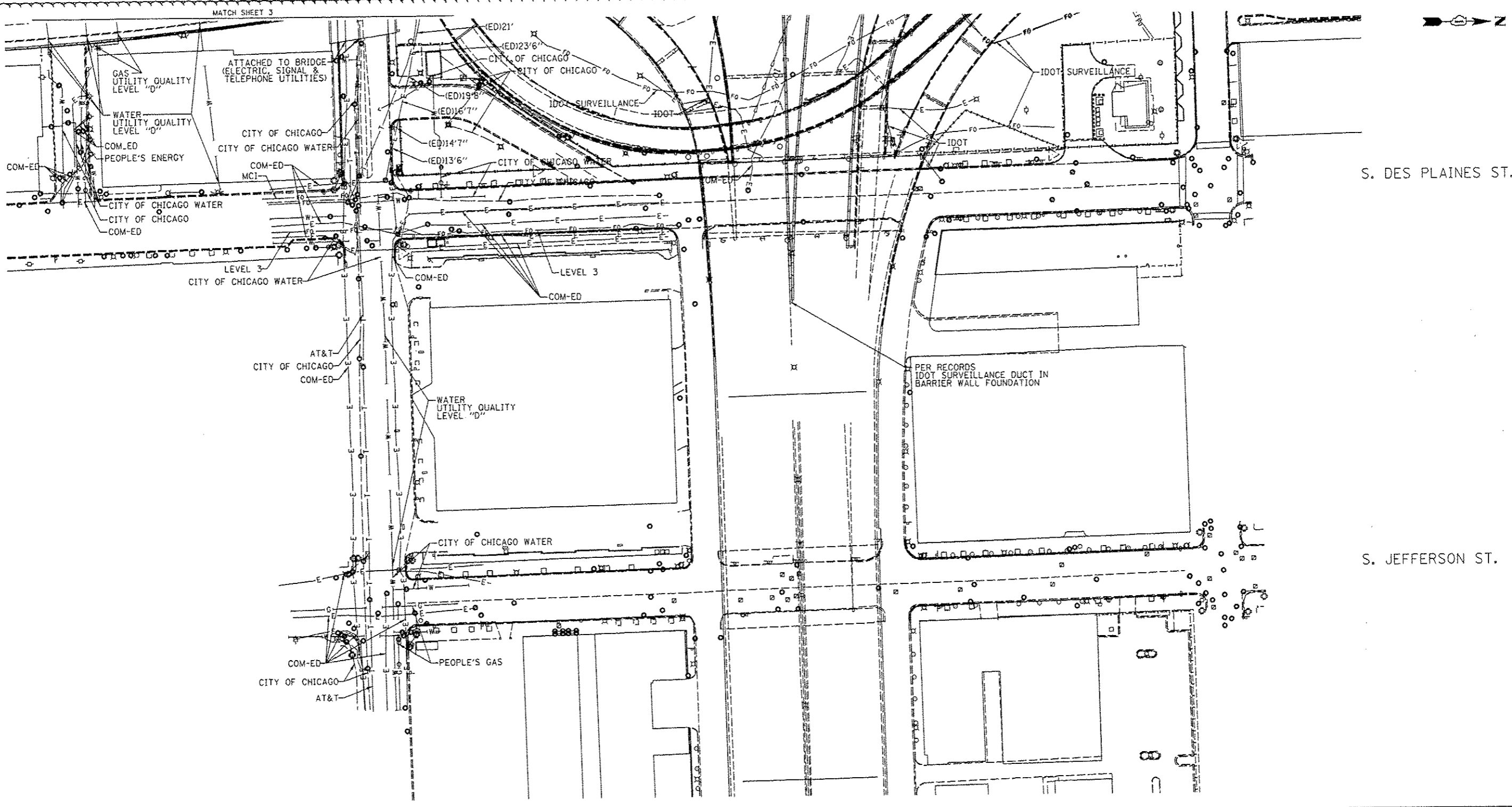
Utility Quality Level "A": Visually Verified Test Hole
 Utility Quality Level "B": Designating/non Visually Verified Test Hole
 Utility Quality Level "C": Research with Survey
 Utility Quality Level "D": Records Research

DESIGNED	EG	REVISED - 3/05/14	COORDINATES
DRAWN	SRK	REVISED - 3/26/14	ITS LINE WORK
CHECKED	KFS	REVISED	6/24/2015
DATE	2/28/14	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

I-94-901-290 (Circle Interchange)
Chicago, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	747	252
Contract No. N/A				
FED. ROAD DIST. NO. - [ILLINOIS] IDOT Project No. P-91-299-12				



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

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

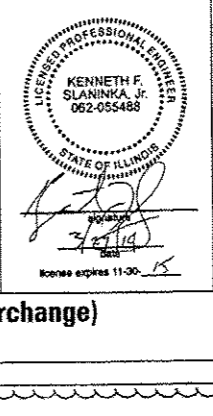
NOTE: ALL ELECTRONIC DEPTHS MARKED AS (ED) WERE OBTAINED UTILIZING A SONDE DEVICE. DEPTHS ON THE AT&T DUCT WERE RECORDED FROM AN AT&T CONTRACTOR. DEPTHS ON THE COMED DUCT WERE RECORDED BY A CARDNO CREW. CARDNO CAN NOT VERIFY THE ACCURACY OF THESE DEPTHS AND SHOULD BE USED AS APPROXIMATE AND AS INFORMATION 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 3/25/14. 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.

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

20 0 METERS 20 40
 50 0 FEET 50 100

1-941-901-290 (Circle Interchange)
 Chicago, Illinois



Cardno TBE

Dynasty Group
 Engineers & Surveyors

TBE Job No. IL09510531, 563
 SUE Plan Page: 4 of 6

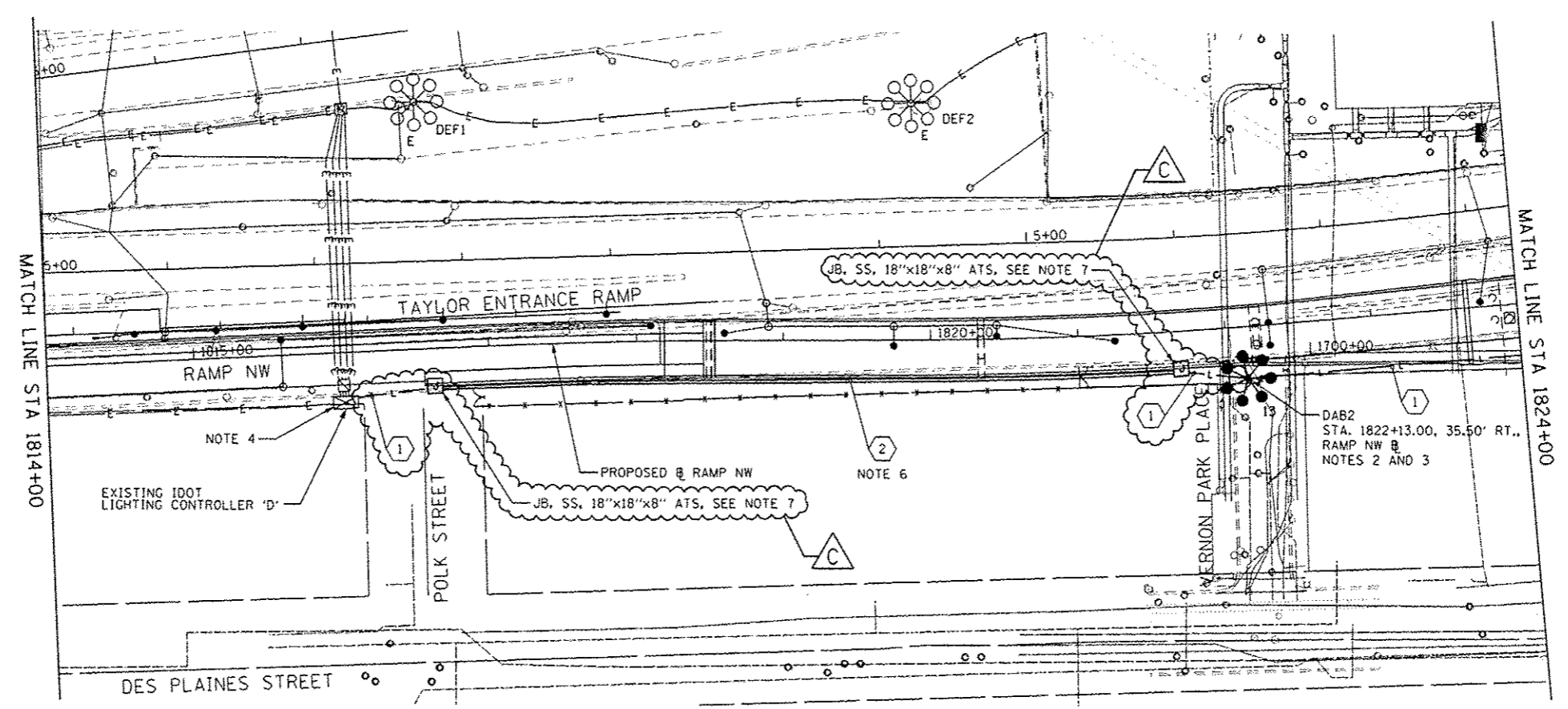
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	N/A	Cook	747	253

Contract No. N/A
 FED. ROAD DIST. NO. [ILLINOIS] IDOT Project No. P-91-259-12

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

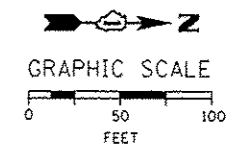
DESIGNED EG	REVISED - 3/26/14 ITS LINE WORK
DRAWN SRK	REVISED 6/28/2014
CHECKED KFS	REVISED
DATE 2/28/14	REVISED

FILE PATH: \\198838\parm\1\comp\line\local\PM\E\CD\28\Documents\A\B\American\Transportation\62629338_Circuit\Phone\IL\600\CAD\BTE\Electrical\Sheet\60W28\Light\Light-08



- ① CKTS. DA & DB: 3-1/2 NO. 2 & 1-1/2 NO. 4 GROUND XLP TYPE USE CABLES IN 1 1/2" POLYETHYLENE UNIT DUCT
- ② CKTS. DA & DB: 3-1/2 NO. 2 & 1-1/2 NO. 4 GROUND XLP TYPE USE CABLES IN 2" RGC PVCC COATED ATS

- NOTES:**
1. SEE DRAWING E-01 FOR IDOT ELECTRICAL SYMBOLS.
 2. SEE DRAWING E-16 FOR LIGHT TOWER FOUNDATION SCHEDULE. COORDINATE TOWER INSTALLATION WITH CIVIL WORK AT VERNON PARK PLACE. SEE THE CIVIL PLANS FOR ADDITIONAL DETAILS.
 3. SEE DRAWING E-17 FOR LIGHT TOWER CONDUIT AND GROUNDING INSTALLATION DETAILS. SEE THE CIVIL PLANS FOR SIDEWALK AND CURB WORK AROUND THE FOUNDATION. NO SERVICE PAD WILL BE INSTALLED FOR THIS LIGHT TOWER.
 4. PROVIDE A NEW LIGHTING FEED TO LIGHT TOWER DAB2 FROM EXISTING IDOT LIGHTING CONTROLLER 'D' AS SHOWN.
 5. SEE DRAWING E-13 FOR IDOT LIGHTING CONTROLLER 'D' WIRING DIAGRAM.
 6. ATTACH THE CONDUIT TO THE RETAINING WALL APPROXIMATELY 30 INCHES ABOVE GRADE.
 7. SEE DRAWING E-16 FOR CONDUIT ATTACHED TO STRUCTURE DETAILS.



E-08



DISB#28-Whi-Light-08	DESIGNED - WDS	REVISED - A 5/27/2014
USER NAME - mgarac	DRAWN - CAM	REVISED - C 6/24/2014
PLT SCALE - 1/80,0000' / 1"	CHECKED - WDS	REVISED -
PLT DATE - 6/23/2014	DATE - 04/28/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

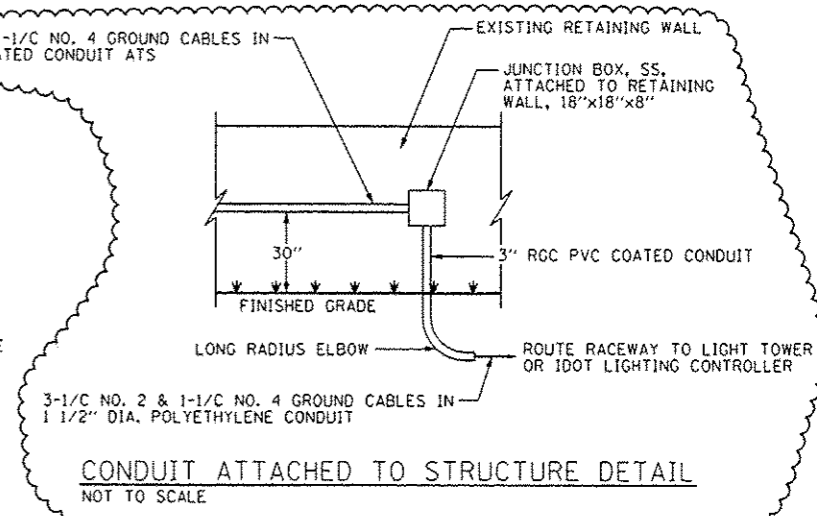
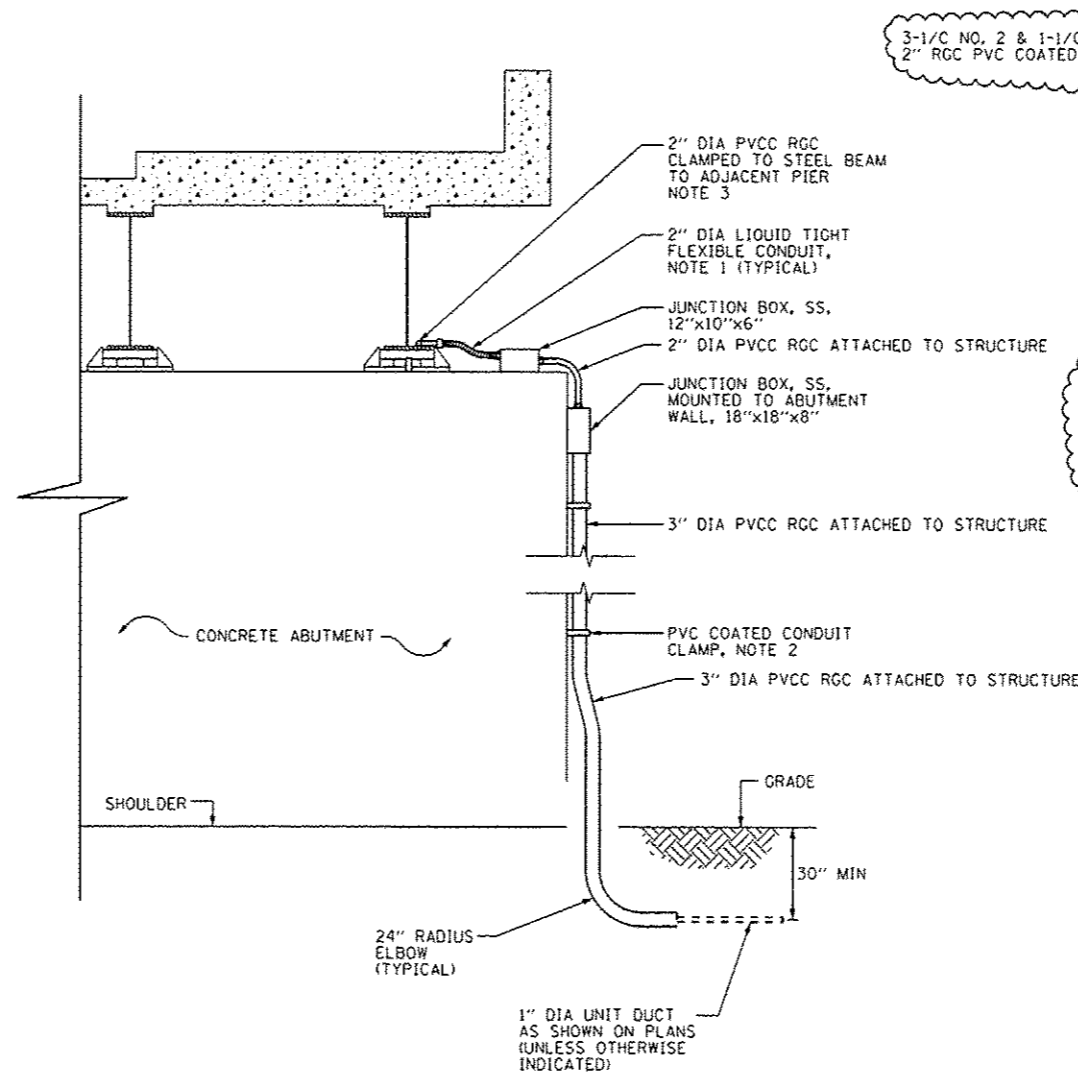
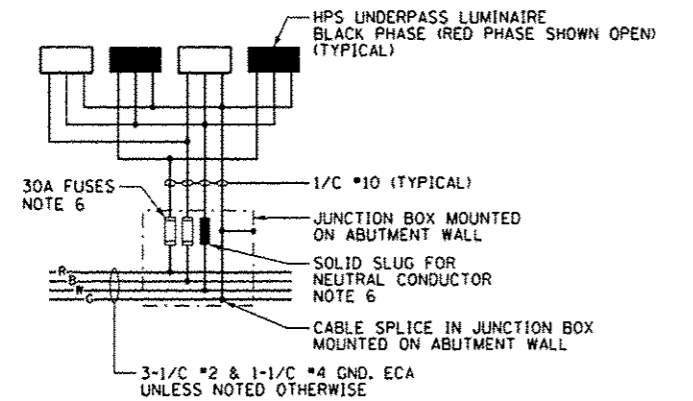
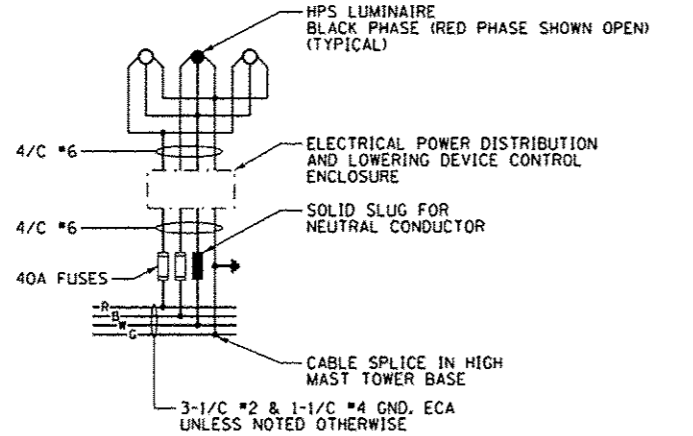
**RAMP NORTHWEST
PROPOSED LIGHTING PLAN**

SCALE: 1"=50' SHEET 8 OF 17 SHEETS STA. 1814+00 TO STA. 1824+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	298
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

HIGH MAST LIGHT TOWER FOUNDATION SCHEDULE

HIGH MAST LIGHT TOWER IDENTIFICATION	HIGH MAST LIGHT TOWER FOUNDATION LOCATION			HIGH MAST LIGHT TOWER FOUNDATION ELEVATIONS			HIGH MAST TOWER HEIGHT	REMARKS AND NOTES
	STATION	OFFSET (NOTE 4)	BASELINE	TOP ELEVATION	BOTTOM ELEVATION	DESIGN DEPTH (FT)		
DAB2	1822+13.00	35.50' RT	NW RAMP	594.02	524.02	70.0	130'	SEE NOTES 4 AND 5.
ZCD1	1832+94.91	127.53' RT	NW RAMP	587.72	532.72	55.0	150'	SEE NOTES 4 AND 5.
GAB11	1836+75.00	55.00' RT	NW RAMP	595.04	544.04	51.0	150'	SEE NOTES 4 AND 5.



- NOTES:**
- 2" DIAMETER LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 3'-0". PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE MEASURED AND PAID FOR UNDER THE "CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
 - SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTIONS. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS WILL BE MEASURED AND PAID FOR UNDER THE "CONDUIT ATTACHED TO STRUCTURE, 3" DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
 - SEE DRAWING E-12 FOR THE ROUTING OF THE CONDUIT ATTACHED TO STRUCTURE.
 - SEE IDOT STANDARDS BE-506 AND BE-511 FOR LIGHT TOWER FOUNDATION DETAILS.
 - THE SCHEDULE ON THIS DRAWING REPLACES THE "SHAFT LENGTH (D) TABLE" SHOWN ON IDOT STANDARDS BE-506 AND BE-511.
 - THE FUSES, FUSE HOLDERS, AND SOLID SLUGS SHALL BE PROVIDED ACCORDING TO ARTICLE 1065.01 OF THE IDOT STANDARDS. THE COST OF PROVIDING THE FUSES, FUSE HOLDERS, AND SOLID SLUGS IN THE JUNCTION BOX WILL NOT BE PAID FOR SEPARATELY AND WILL BE INCLUDED IN THE COST OF THE JUNCTION BOX IN WHICH THEY ARE INSTALLED.



D160W2B-ahc-Light-16	DESIGNED - WDS	REVISED - A 5/27/2014	
USER NAME - mjgrac	DRAWN - CAM	REVISED - A 6/24/2014	
PLOT SCALE - 2,0000' / 1"	CHECKED - WDS	REVISED -	
PLOT DATE - 6/23/2014	DATE - 04/28/14	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MISCELLANEOUS ELECTRICAL DETAILS

SCALE: N.T.S. SHEET 16 OF 17 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	306
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES:

- Reinforcement bars designated (E) shall be epoxy coated.
- Slip forming of the barrier rails is not allowed.
- 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 building and retaining wall foundations. See Special Provision for Construction Vibration Monitoring.
- Protective Coat shall be applied to the designated areas of Anchor Slabs, Barrier Rails, and MSE Coping.
- Stations and Offsets are measured from the Baseline of Ramp NW to the Front Face of MSE wall panels.
- MSE Supplier to design load transfer systems within reinforced soil mass to accommodate drainage structures and abutment foundations.
- MSE Wall lengths measured along front face of precast panels unless noted otherwise.
- Contractor shall field verify location of existing footings and underground utilities and shall take all precautions to protect them during ground improvement, construction of the wall, and final condition of the ramp. Any damages to the existing structures shall be the responsibility of the Contractor.
- Quantity for Lightweight Cellular Concrete Fill includes reinforced soil mass and fill area beneath roadway. Type is specified as Class II Lightweight Fill.
- See Special Provision for Mechanically Stabilized Earth Retaining Wall, Special for design and construction requirements.
- Anchor Slabs and Barrier Rails shall be paid for as Concrete Superstructure.
- For drainage structure location, type, and size, see Drainage Sheets.
- Repairs to existing Retaining Wall 2 (SN 016-Z024) shall be completed prior to installation of MSE fill ramp.

TOTAL BILL OF MATERIAL:

DESCRIPTION	UNIT	TOTAL
CONCRETE REMOVAL	CU. YD.	53
STRUCTURE EXCAVATION	CU. YD.	1,108
CONCRETE SUPERSTRUCTURE	CU. YD.	402
BRIDGE DECK GROOVING (SPECIAL)	SQ. YD.	44
PROTECTIVE COAT	SQ. YD.	960
REINFORCEMENT BARS, EPOXY COATED	POUND	60,520
SLOPE WALL 4"	SQ. YD.	39
NAME PLATES	EACH	1
LIGHTWEIGHT CELLULAR CONCRETE FILL	CU. YD.	9,460
AGGREGATE COLUMN GROUND IMPROVEMENT	L. SUM	0.58
MECHANICALLY STABILIZED EARTH RETAINING WALL, SPECIAL	SQ. FT.	8,279

INDEX OF SHEETS:

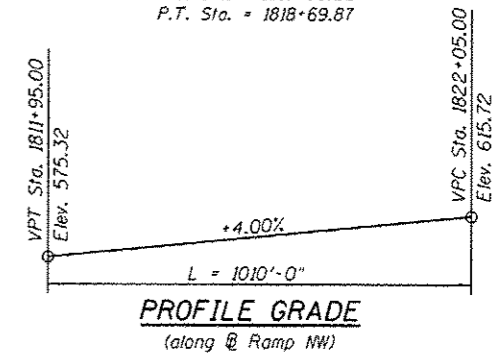
- RW1-01 General Plan and Elevation
- RW1-02 North and East Elevations
- RW1-03 Total Bill of Material, Index of Sheets and General Notes
- RW1-04 Existing Structural Removal
- RW1-05 Typical Sections
- RW1-06 West Barrier Rail and Anchor Slab
- RW1-07 East Barrier Rail and Anchor Slab
- RW1-08 MSE Wrap Around Details
- RW1-09 Details
- RW1-10 Architectural Details - I
- RW1-11 Architectural Details - II
- RW1-12 Aggregate Column Ground Improvement Details
- RW1-13 Boring Logs - I
- RW1-14 Boring Logs - II
- RW1-15 Boring Logs - III
- RW1-16 Boring Logs - IV
- RW1-17 Boring Logs - V

SUGGESTED SEQUENCE OF CONSTRUCTION:

- Modify existing Retaining Wall 2 (SN 016-Z024) foundation as directed.
- Install piles for South Abutment of NW Flyover (SN 016-1705).
- Repair front face of existing Retaining Wall 2 (SN 016-Z024) as required on plans.
- Excavate for construction of proposed Retaining Wall 1 (SN 016-1720).
- Remove portions of existing Taylor St. Exit Ramp wall as directed.
- Install Aggregate Column Ground Improvement.
- Begin installing and filling West and North Elevations of Retaining Wall 1 (SN 016-1720) up to elevation of leveling pad of East Elevation. Backfill and replace roadway of Taylor St. Exit Ramp.
- Complete South Abutment of NW Flyover (SN 016-1705).
- Complete West Elevation and install East Elevation of Retaining Wall 1 (SN 016-1720) simultaneously. Fill between wall faces.
- Install Anchor Slabs and Barrier Rails on West and East faces.
- Complete roadway on NW Flyover Ramp (SN 016-1705).

CURVE DATA

(Ramp NW)
 Prop. Curve P-CIR-NW-4
 P.I. Sta. 1817+80.05
 $\Delta = 2^{\circ}30'39''$ (Rt.)
 $D = 1^{\circ}23'51''$
 $R = 4,100.00'$
 $T = 89.85'$
 $L = 179.68'$
 $E = 0.98'$
 $e = -2.00\%$
 P.C. Sta. = 1816+90.20
 P.T. Sta. = 1818+69.87



STATION 1813+60.00
 BUILT BY
 STATE OF ILLINOIS
 F.A.I. RTE. 90/94/290-SEC. 2013-010R
 LOADING HL-93
 STRUCTURE NO. 016-1720

NAME PLATE
 See Std. 515001

0161720-60W28-503-GenNote



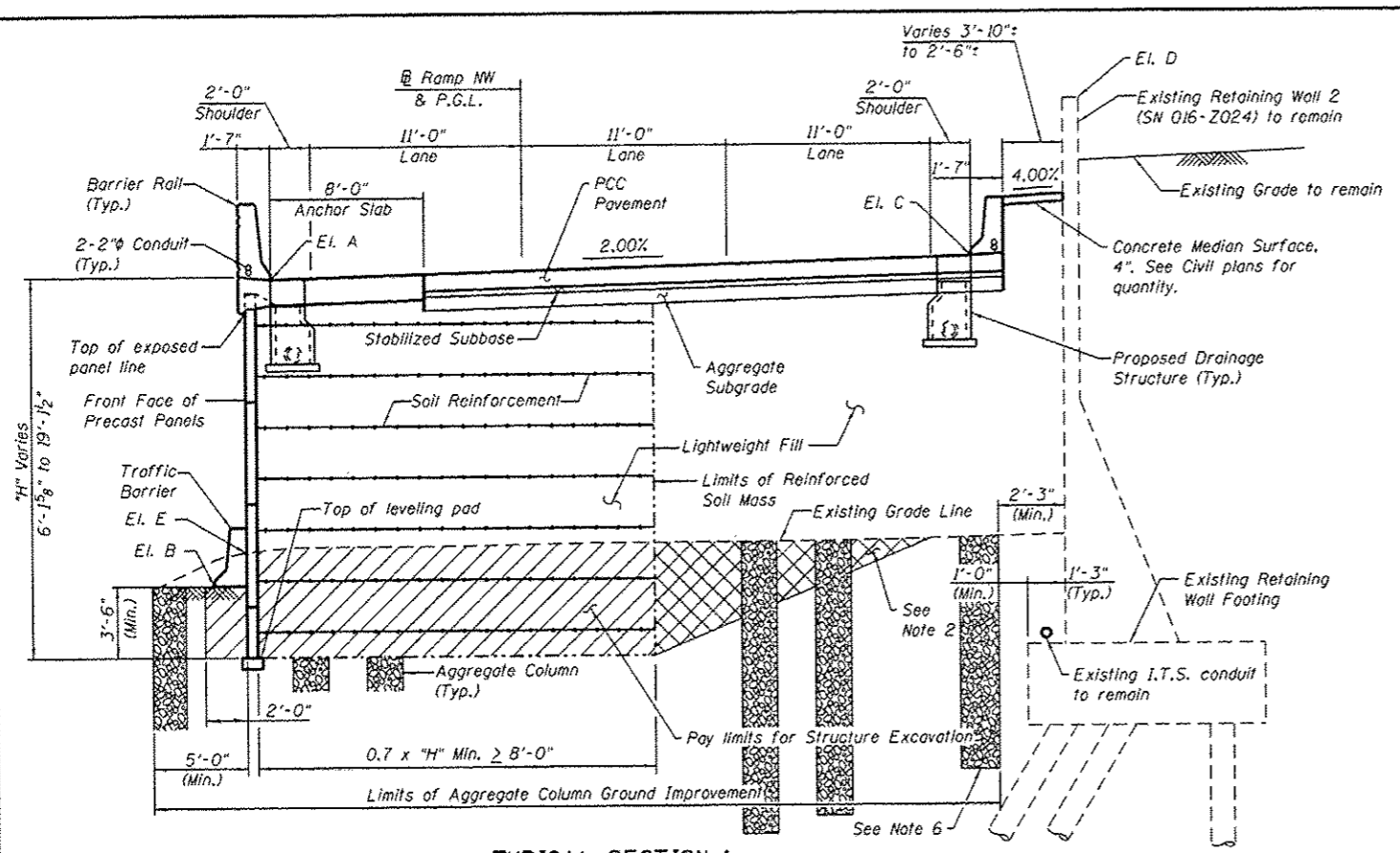
USER NAME = d0bozicd	DESIGNED - DEV	REVISED Δ 6/24/2014 DB
	CHECKED - ATB	REVISED
PLOT SCALE = N.T.S.	DRAWN - BRD	REVISED
PLOT DATE = 4/28/2014	CHECKED - EJO	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

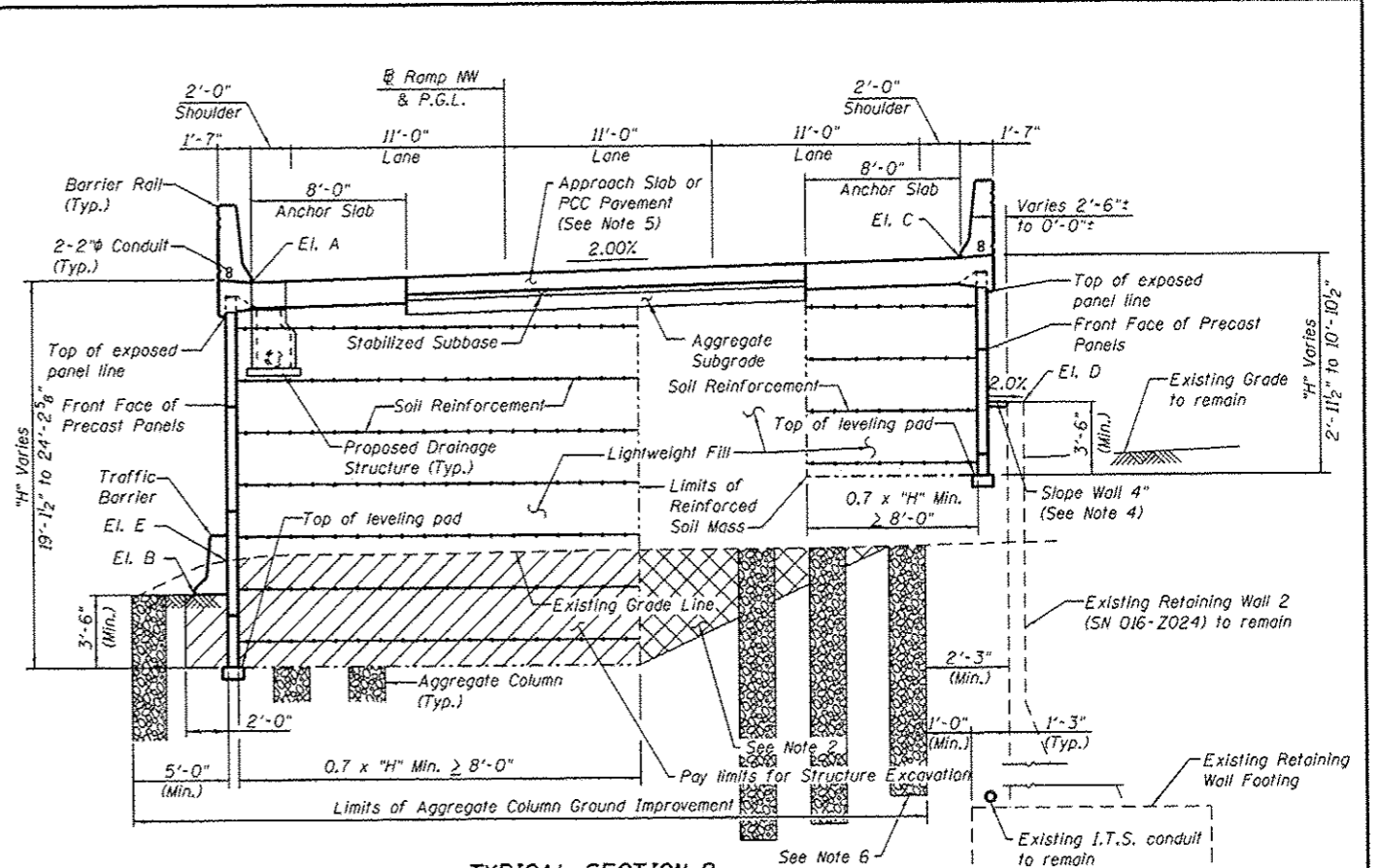
TOTAL BILL OF MATERIAL, INDEX OF SHEETS & GENERAL NOTES
 STRUCTURE NO. 016-1720

SHEET NO. RW1-03 OF RW1-17 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	521
CONTRACT NO.			60W28	
ILLINOIS FED. AID PROJECT NUMBER				



TYPICAL SECTION 1
Sta. 1813+60.00 to Sta. 1816+56.17
(Facing North)



TYPICAL SECTION 2
Sta. 1816+56.17 to Sta. 1818+46.17
(Facing North)

TABLE 1

Station	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E
1813+60.00	581.66	579.15	582.40	594.77	580.00
1813+75.00	582.26	578.40	583.00	594.77	579.49
1814+00.00	583.26	577.42	584.00	594.78	578.78
1814+25.00	584.26	576.78	585.00	594.78	578.19
1814+50.00	585.26	576.47	586.00	594.76	577.66
1814+75.00	586.26	576.49	587.00	594.72	577.36
1815+00.00	587.26	576.67	588.00	594.72	577.25
1815+25.00	588.26	576.80	589.00	594.75	577.18
1815+50.00	589.26	576.94	590.00	594.74	577.37
1815+75.00	590.26	577.09	591.00	594.72	577.59
1816+00.00	591.26	577.28	592.00	594.70	577.83
1816+25.00	592.26	577.49	593.00	594.68	578.10
1816+50.00	593.26	577.76	594.00	594.67	578.37
1816+56.17	593.51	577.82	594.25	594.66	578.44
1816+75.00	594.26	578.02	595.00	594.63	578.64
1817+00.00	595.26	578.42	596.00	594.64	578.90
1817+25.00	596.26	578.82	597.00	594.68	579.15
1817+50.00	597.26	579.33	598.00	594.69	579.45
1817+75.00	598.26	579.75	599.00	594.68	579.75
1818+00.00	599.26	580.03	600.00	594.63	580.03
1818+25.00	600.26	580.29	601.00	594.58	580.29
1818+46.17	601.11	580.52	601.85	594.60	580.52
1818+53.67	601.41	580.62	602.15	594.61	580.62

NOTES:

- Front of West Face of Wall is offset 14'-3" left (West) of baseline. Front of East Face of Wall is offset 25'-3" right (East) of baseline.
- If contractor elects to overexcavate beyond limits of Structure Excavation, this area shall be backfilled with Lightweight Fill. Overexcavation, additional Lightweight Fill or Aggregate Column Ground Improvement placed in the overexcavation area will not be measured for payment.
- Contractor shall verify in field location of Existing Retaining Wall Footing and existing utilities prior to placement of Aggregate Column Ground Improvement.
- Fill void between proposed wall and existing wall with Lightweight Fill, Cap with Slope Wall and Seal with 1/2" Preformed Joint Filler per Section 1051.09, cost included in Slope Wall 4" pay item. This applies to Typical Section 2 only.
- Approach Slab for NW Flyover (SN 016-1705) is between Anchor Slabs from Sta. 1818+16.17 to Sta. 1818+46.17. See bridge plans.
- Contractor's design of aggregate columns shall shorten columns and vary spacing and/or diameter to avoid conflict with existing wall's battered pile foundation. Piles shall not be damaged.

Elevation A - Edge of Shoulder at Face of West Barrier Rail
 Elevation B - Proposed Grade Line at West Face of Proposed Retaining Wall
 Elevation C - Edge of Shoulder at Face of East Barrier Rail
 Elevation D - Top of Existing Retaining Wall
 Elevation E - Existing Grade Line at West Face of Proposed Retaining Wall

TABLE 2

Station	Offset	Downstream Elevation
1813+93.00	13'-0" Lt.	577.02
1813+93.00	21'-6" Rt.	576.38
1815+60.00	13'-0" Lt.	583.70
1815+60.00	21'-6" Rt.	583.06
1818+10.00	13'-0" Lt.	593.70

BILL OF MATERIAL

Item	Unit	Quantity
Structure Excavation	Cu. Yd.	1,042
Bridge Deck Grooving (Special)	Sq. Yd.	44
Slope Wall 4"	Sq. Yd.	30
Lightweight Cellular Concrete Fill	Cu. Yd.	9,460
Mechanically Stabilized Earth Retaining Wall, Special	Sq. Ft.	8,279

0161720-60W28-S05-CanNote

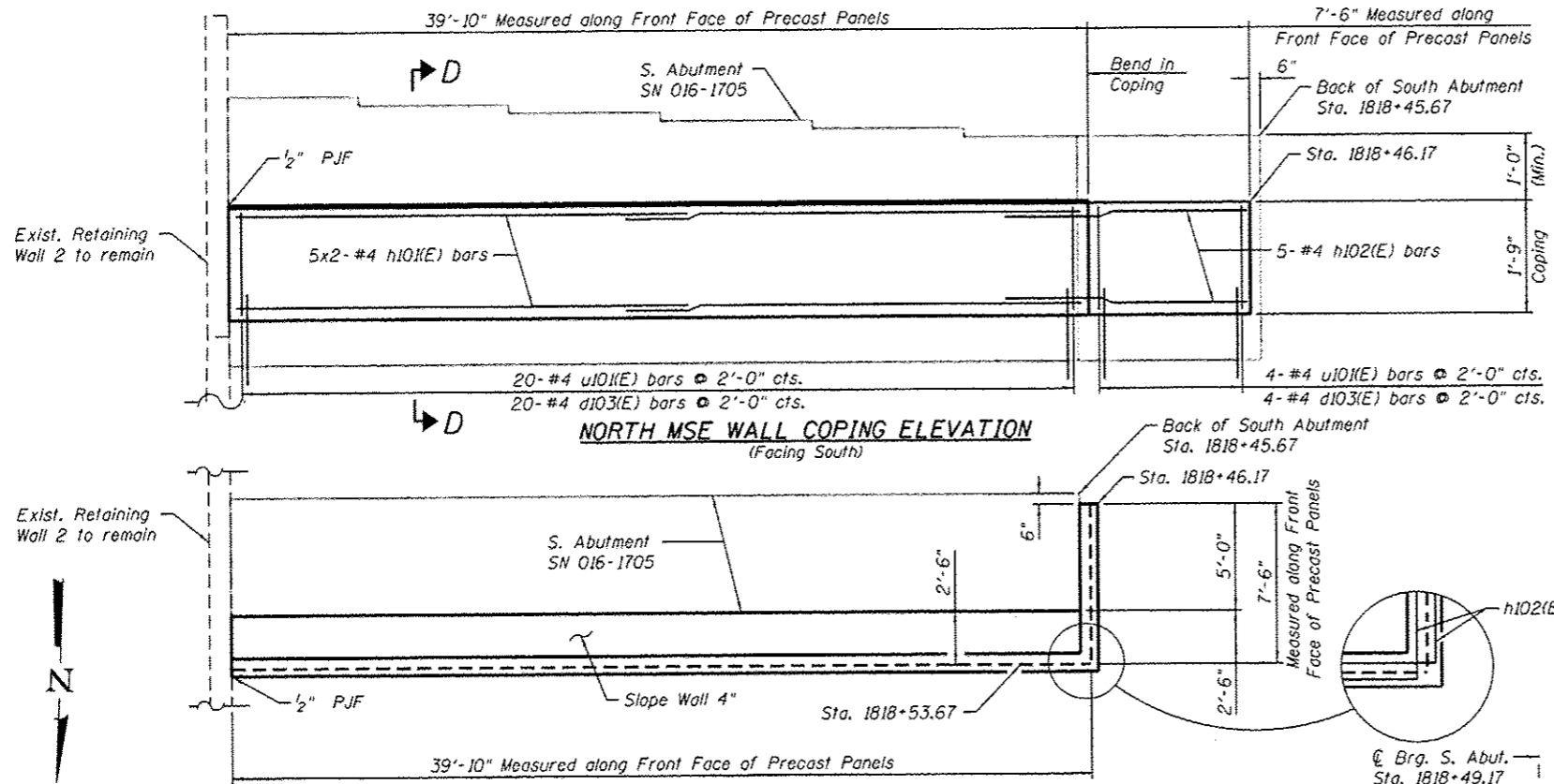


USER NAME = dabezicd	DESIGNED - DEV	REVISED - 6/24/2014 DD
PLOT SCALE = N.T.S.	CHECKED - ATB	REVISED
PLOT DATE = 4/28/2014	DRAWN - BRD	REVISED
	CHECKED - EJO	REVISED

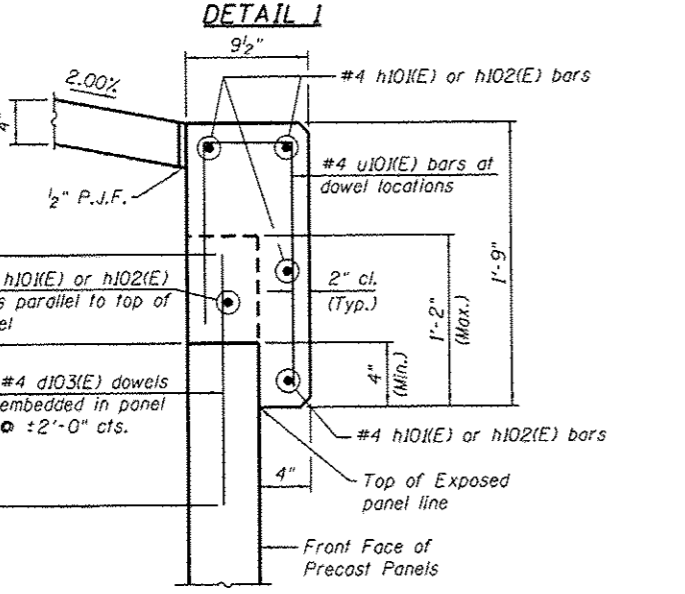
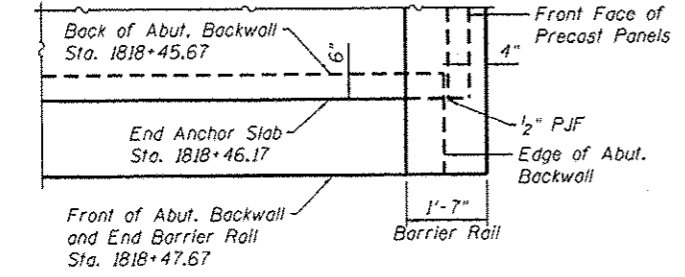
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
STRUCTURE NO. 016-1720
SHEET NO. RWI-05 OF RWI-17 SHEETS

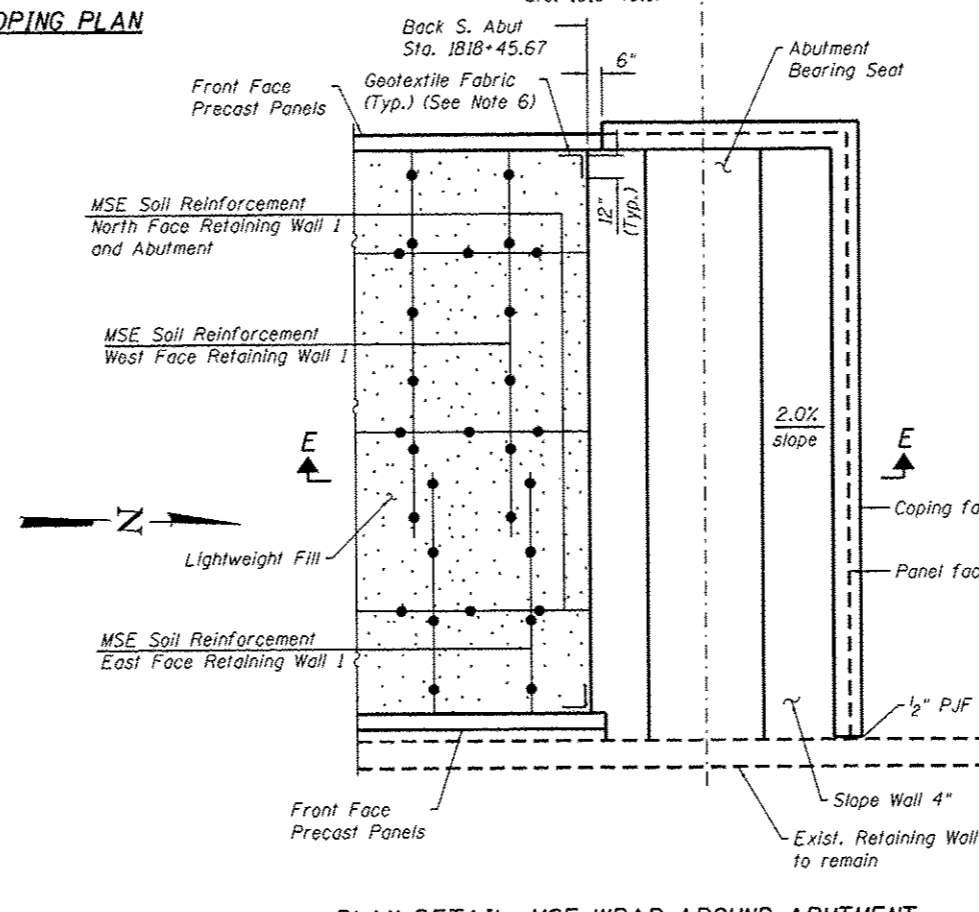
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	523
CONTRACT NO.			60W28	
ILLINOIS FED. AID PROJECT NUMBER-				



NORTH MSE WALL COPING PLAN

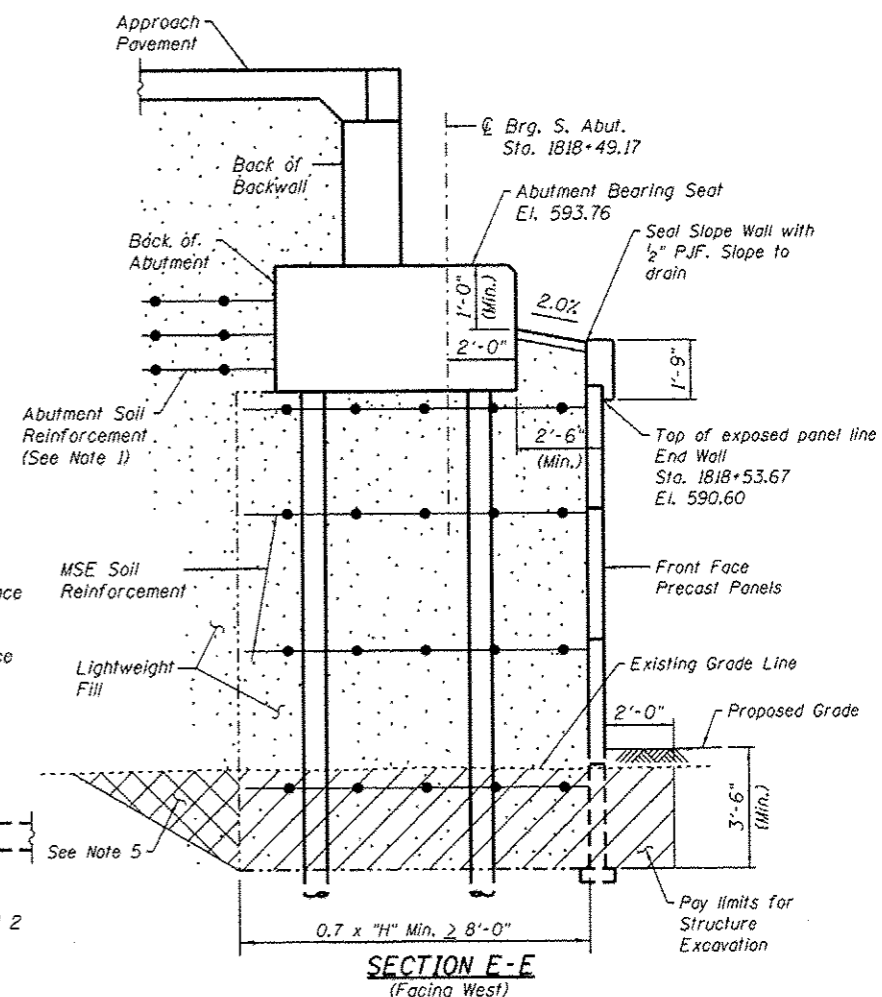


MSE COPING SECTION D-D



PLAN DETAIL: MSE WRAP AROUND ABUTMENT

- NOTES:**
1. The MSE wall supplier shall design the abutment soil reinforcement to resist a horizontal force of 4.6 k/ft of abutment. Cost included in cost of Mechanically Stabilized Earth Retaining Wall, Special.
 2. Anchor Slabs end at Sta. 1818+46.17 where they overlap the abutment backwall by 6". Barrier Rails end at Sta. 1818+47.67 at front of abutment backwall. See Detail 1.
 3. Bars noted thus, 7x3-#4 indicates 7 lines of #4 bars with 3 lengths per line.
 4. See South Abutment sheets for abutment details.
 5. If contractor elects to overexcavate beyond limits of Structure Excavation, this area shall be backfilled with Lightweight Fill. Overexcavation, additional Lightweight Fill or Aggregate Column Ground Improvement placed in the overexcavation area will not be measured for payment.
 6. Cost of Geotextile Fabric is included in cost of Mechanically Stabilized Earth Retaining Wall, Special.
 7. 1/2" P.J.F. is installed by Standard 1051.09. Cost is included in Slope Wall 4".



SECTION E-E (Facing West)

0161720-60W28-508-PerSheet

AECOM	USER NAME = daboziad	DESIGNED - DEV	REVISED - 6/24/2014 DD	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MSE WRAP AROUND DETAILS STRUCTURE NO. 016-1720	F.A.I. RTE. = 90/94/290	SECTION = 2013-010R	COUNTY = COOK	TOTAL SHEETS = 747	SHEET NO. = 526		
	PLOT SCALE = N.T.S.	DRAWN - BRD	REVISED			CONTRACT NO. = 60W28						
	PLOT DATE = 4/28/2014	CHECKED - EJO	REVISED			ILLINOIS FED. AID PROJECT NUMBER =						
						SHEET NO. RW1-08 OF RW1-17 SHEETS						

GENERAL NOTES:

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Slip forming of the barrier rails is not allowed.
3. Protective Coat shall be applied to the designated areas of Anchor Slabs, Barrier Rails, and MSE Coping.
4. Stations and Offsets are measured from the Baseline of Ramp NW to the Front Face of MSE wall panels.
5. MSE Supplier to design load transfer systems within reinforced soil mass to accommodate drainage structures and abutment foundations.
6. MSE Wall lengths measured along front face of precast panels unless noted otherwise.
7. See special provision for Mechanically Stabilized Earth Retaining Wall, Special for design and construction requirements.
8. Proposed Siphon reconstruction to occur prior to Ramp NW construction by others in Contract 60W29.
9. Anchor Slab and Barrier Rail concrete shall be paid for as Concrete Superstructure.
10. For Drainage Structure location, type, and size, see Drainage sheets.
11. Quantity for Lightweight Cellular Concrete Fill includes reinforced soil mass for Retaining Wall 3 and fill area beneath roadway and beneath reinforced soil mass for Retaining Wall 4 (SN 016-1723). See Retaining Wall 4 plans for Lightweight Fill quantity for Retaining Wall 4 reinforced soil mass. Type is specified as Class II Lightweight Fill.
12. 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 and utilities. See Special Provision for Construction Vibration Monitoring.

TOTAL BILL OF MATERIAL:

DESCRIPTION	UNIT	TOTAL
STRUCTURE EXCAVATION	CU. YD.	870
CONCRETE SUPERSTRUCTURE	CU. YD.	245
BRIDGE DECK GROOVING (SPECIAL)	SQ. YD.	29
PROTECTIVE COAT	SQ. YD.	590
REINFORCEMENT BARS, EPOXY COATED	POUND	35,800
SLOPE WALL 4"	SQ. YD.	9
NAME PLATES	EACH	1
LIGHTWEIGHT CELLULAR CONCRETE FILL	CU. YD.	5,902
AGGREGATE COLUMN GROUND IMPROVEMENT	L. SUM	0.32
MECHANICALLY STABILIZED EARTH RETAINING WALL, SPECIAL	SQ. FT.	6,512

INDEX OF SHEETS:

- RW3-01 General Plan and Elevation
- RW3-02 Total Bill of Material, Index of Sheets & General Notes
- RW3-03 Typical Sections
- RW3-04 Barrier Rail and Anchor Slab
- RW3-05 MSE Wrap Around Details
- RW3-06 Details
- RW3-07 Architectural Details
- RW3-08 Aggregate Column Ground Improvement Details
- RW3-09 Boring Logs - I
- RW3-10 Boring Logs - II
- RW3-11 Boring Logs - III
- RW3-12 Boring Logs - IV

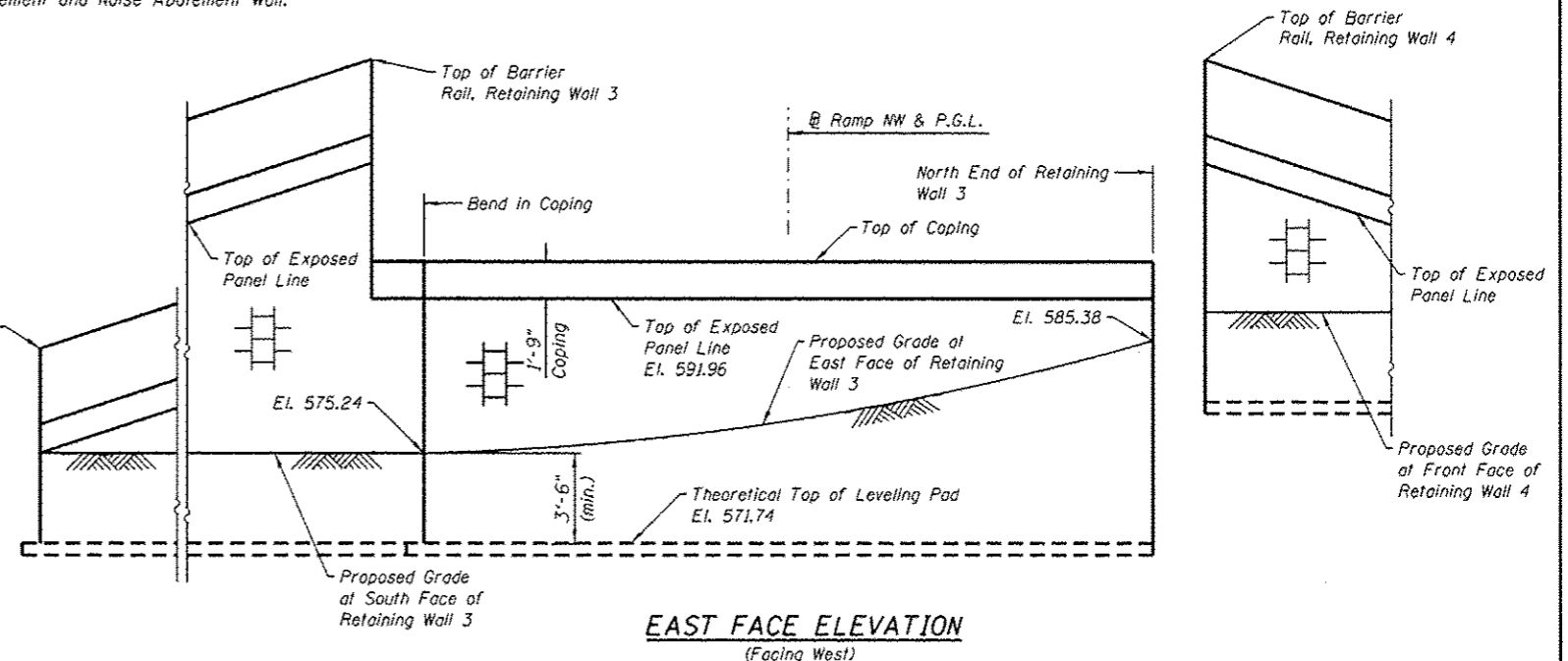
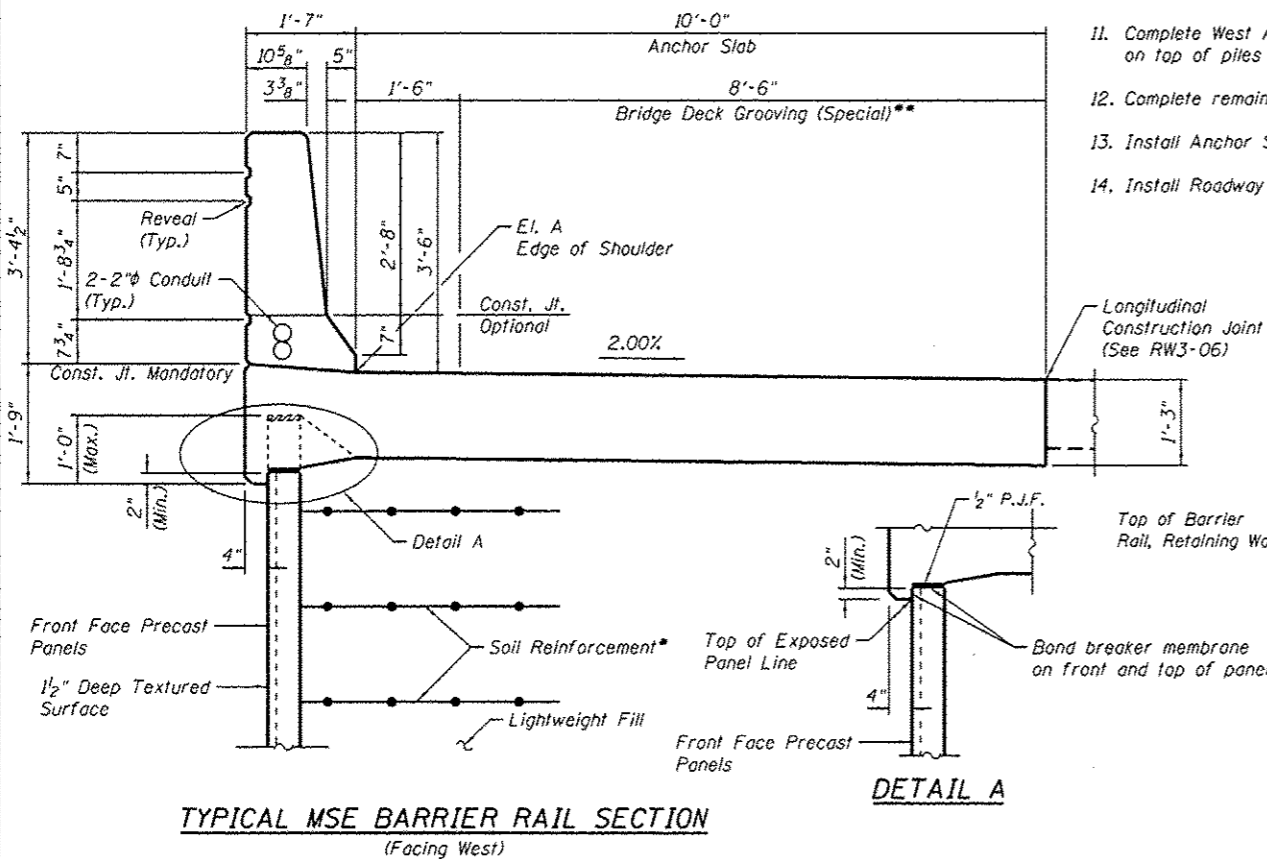
SUGGESTED SEQUENCE OF CONSTRUCTION:

1. Locate existing utilities that are to remain. Contractor to coordinate any required improvements to or removals of existing utilities with utility owner(s). See Utility Location Plans and ITS Plans.
2. Locate and remove any abandoned CTA foundations that are in conflict with Retaining Walls 3, 4, 40, or Noise Abatement Wall.
3. Install drilled soldier piles for Retaining Wall 4 soldier pile wall.
4. Install drilled shafts for SN 016-1705 West Abutment.
5. Install foundations for Noise Abatement Wall.
6. Excavate for Retaining Walls 3, 4, and 40. Install temporary lagging between soldier piles of Retaining Wall 4 from top down as excavation proceeds if needed to retain existing soil.
7. Install Aggregate Column Ground Improvement for Retaining Walls 3, 4, and 40.
8. Construct Retaining Wall 40, placing MSE straps to avoid Noise Abatement Wall foundations.
9. Begin placing lightweight fill and installing Retaining Wall 3 up to height of Retaining Wall 4 MSE leveling pad. Install Drainage System.
10. Install Concrete Facing on soldier piles of Retaining Wall 4. Backfill north side of wall.
11. Complete West Abutment of SN 016-1705. Install Retaining Wall 4 soldier pile cap and barrier on top of piles and concrete facing.
12. Complete remainder of Retaining Wall 3 while installing MSE portion of Retaining Wall 4.
13. Install Anchor Slabs and Barrier Rails for Retaining Walls 3 and 4.
14. Install Roadway pavement and Noise Abatement Wall.

STATION 1838+23.17
 BUILT BY
 STATE OF ILLINOIS
 F.A.I. RTE. 90/94/290-SEC. 2013-010R
 LOADING HL-93
 STRUCTURE NO. 016-1722

NAME PLATE
 See Std. 515001

- * The M.S.E. wall supplier's internal stability design shall account for the anchor slab's bearing pressure surcharge of 1.0 ksf and horizontal sliding force of 0.83 kips/ft of wall.
- ** Bridge Deck Grooving (Special) extends from start of Anchor Slab at Sta. 1838+23.17 to end of approach slab at Sta. 1838+53.17. For quantity of Bridge Deck Grooving (Special) on approach slab and North Anchor Slab, see structural plans for NW Flyover (SN 016-1705) and Retaining Wall 4 (SN 016-1723), respectively.



0161722-60W28-S02-GenNote



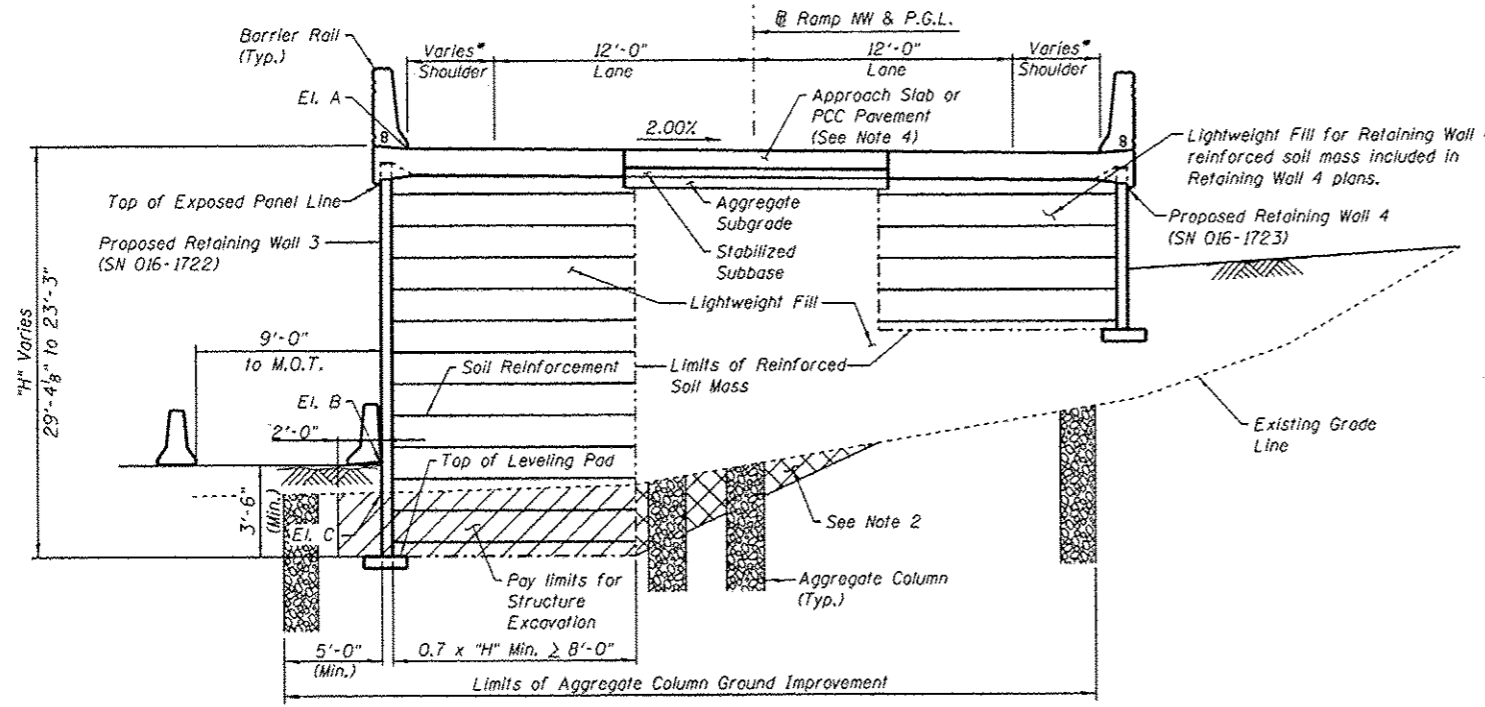
USER NAME = dabezicd	DESIGNED - DEV	REVISION 6/24/2014 DD
PLLOT SCALE = N.T.S.	CHECKED - ATB	REVISION
PLLOT DATE = 4/28/2014	DRAWN - BRD	REVISION
	CHECKED - EJO	REVISION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOTAL BILL OF MATERIAL, INDEX OF SHEETS & GENERAL NOTES
 STRUCTURE NO. 016-1722

SHEET NO. RW3-02 OF RW3-12 SHEETS

F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 546
CONTRACT NO. 60W28				
[ILLINOIS] FED. AID PROJECT NUMBER-				



TYPICAL SECTION 1
(Sta. 1838+23.17 to Sta. 1838+98.00)
(Facing West)

* Shoulder widths vary from 5'-2 1/8" at Sta. 1838+23.17 to 4'-0" at Sta. 1838+44.32

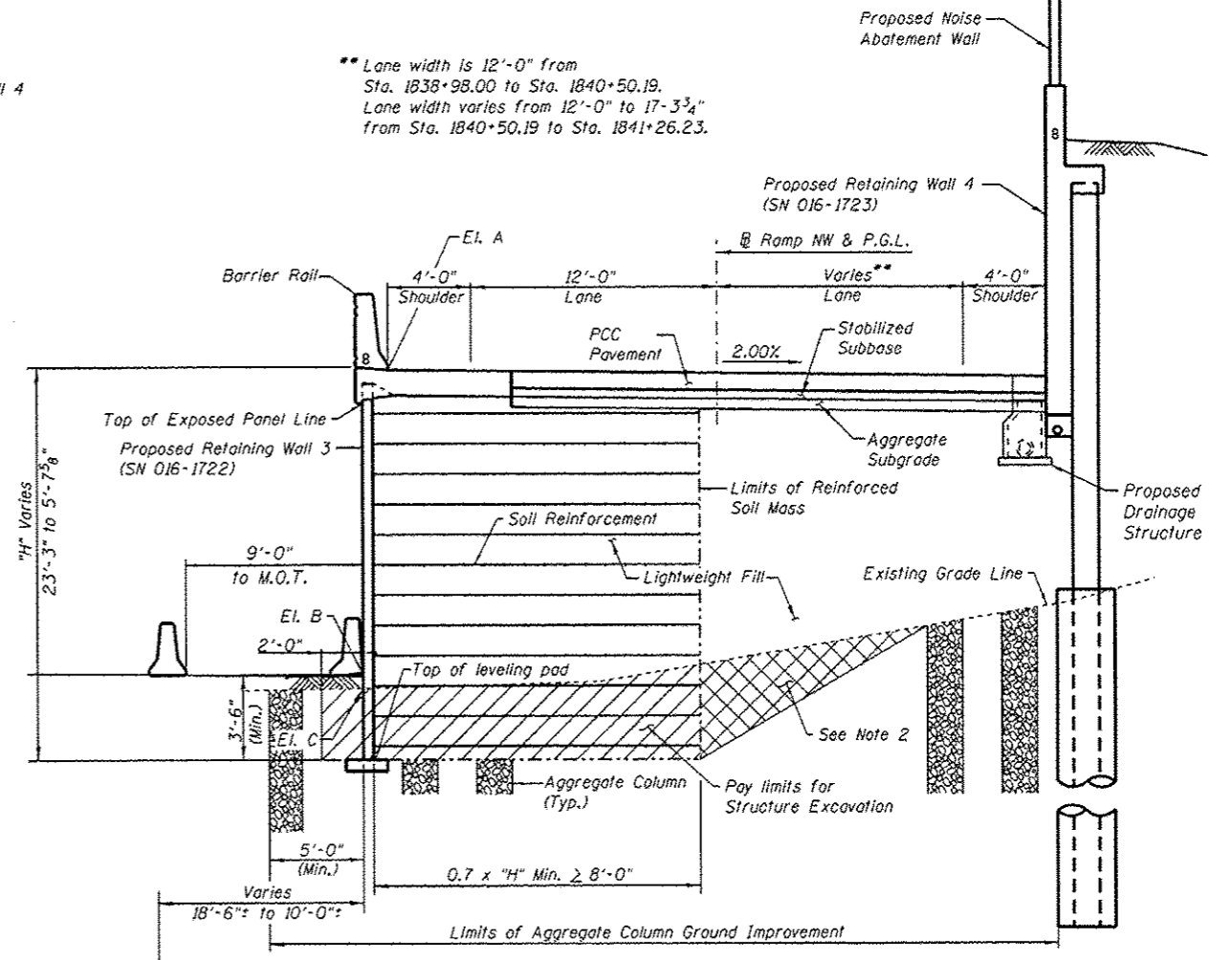
TABLE 2

Station	Offset	Downstream Elevation
1838+55.00	16'-0" Rt.	589.56
1839+85.00	13'-0" Rt.	573.29
1840+42.69	16'-0" Rt.	574.58
1841+26.37	21'-4" Rt.	575.00

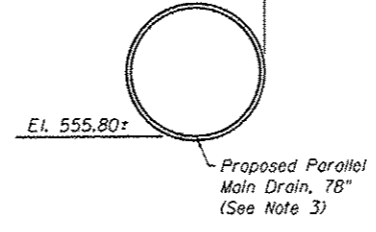
TABLE 1

Station	Offset	Elevation A	Elevation B	Elevation C
1838+23.17	18'-5 1/8" Lt.	600.96	575.24	575.67
1838+25.00	18'-4" Lt.	600.83	575.26	575.67
1838+44.32	17'-3" Lt.	599.47	575.44	576.04
1838+50.00	17'-3" Lt.	599.08	575.51	576.05
1838+75.00	17'-3" Lt.	597.34	575.81	576.13
1839+00.00	17'-3" Lt.	595.61	575.98	576.00
1839+25.00	17'-3" Lt.	593.87	576.14	576.15
1839+50.00	17'-3" Lt.	592.14	576.33	576.33
1839+75.00	17'-3" Lt.	590.40	576.39	576.40
1840+00.00	17'-3" Lt.	588.67	576.46	576.46
1840+25.00	17'-3" Lt.	586.93	576.57	576.58
1840+50.00	17'-3" Lt.	585.21	576.69	576.69
1840+75.00	17'-3" Lt.	583.63	576.77	576.78
1841+00.00	17'-3" Lt.	582.24	576.86	576.87
1841+25.00	17'-3" Lt.	581.04	576.93	576.93
1841+50.00	17'-3" Lt.	580.04	576.99	577.00
1841+75.00	17'-3" Lt.	579.23	577.11	577.13
1841+78.17	17'-3" Lt.	579.14	577.13	577.14

Elevation A - Edge of Shoulder at Face of Barrier Rail
Elevation B - Proposed Grade Line at Front Face of Wall
Elevation C - Existing Grade Line at Front Face of Wall



TYPICAL SECTION 2
(Sta. 1838+98.00 to Sta. 1841+78.17)
(Facing West)



NOTES:

- Contractor shall coordinate construction of Retaining Wall 3 (SN 016-1722) with Retaining Wall 4 (SN 016-1723), Retaining Wall 40 (SN 016-1809), and abutment of Ramp NW (SN 016-1705).
- If contractor elects to overexcavate beyond limits of Structure Excavation, this area shall be backfilled with Lightweight Fill. Overexcavation, additional Lightweight Fill or Aggregate Column Ground Improvement placed in the overexcavation area will not be measured for payment.
- Proposed 78" Main Drain to be jacked in place prior to Retaining Wall 3 construction. See Drainage Plans.
- Approach Slab for NW Flyover (SN 016-1705) is between Anchor Slabs from Sta. 1838+23.17 to Sta. 1838+53.17. See bridge plans.

BILL OF MATERIAL

Item	Unit	Quantity
Structure Excavation	Cu. Yd.	870
Lightweight Cellular Concrete Fill	Cu. Yd.	5,902
Mechanically Stabilized Earth Retaining Wall, Special	Sq. Ft.	6,512

0161722-60W28-503-GenNote

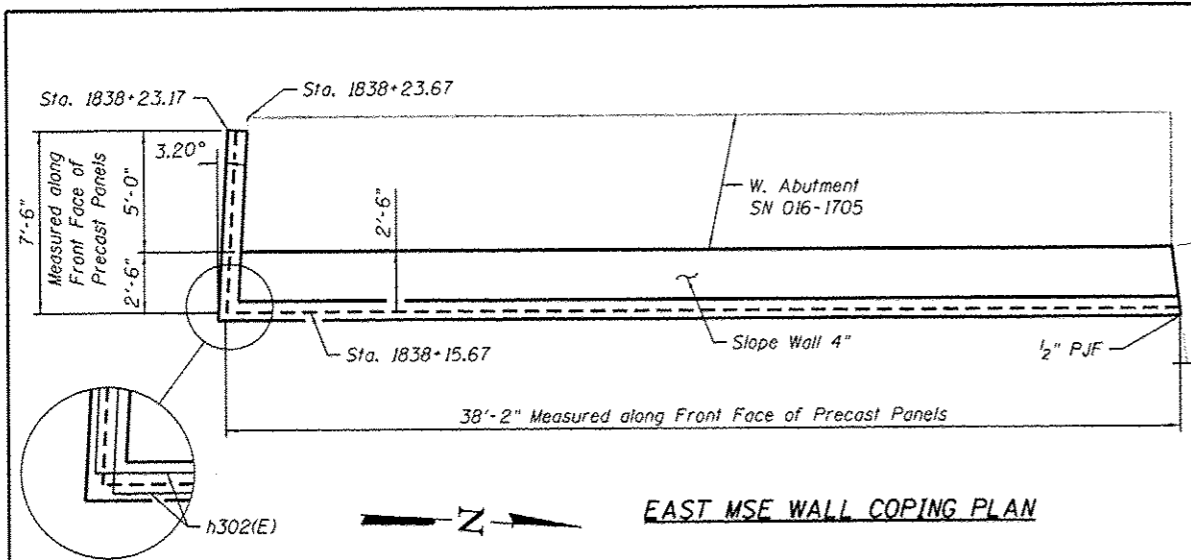


USER NAME = dabezicd	DESIGNED - DEV	REVISION 6/24/2014 DD
CHECKED - ATB	DRAWN - BRD	
PLOT SCALE = N.T.S.	CHECKED - EJO	
PLOT DATE = 4/28/2014		

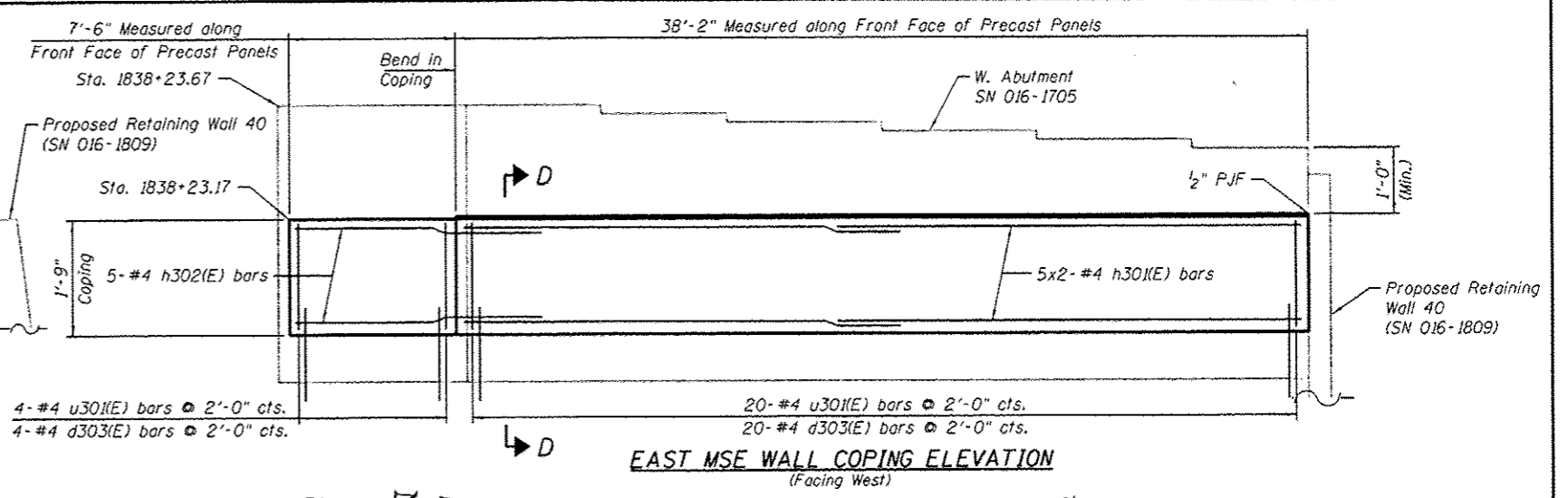
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
STRUCTURE NO. 016-1722
SHEET NO. RW3-030/RW3-12 SHEETS

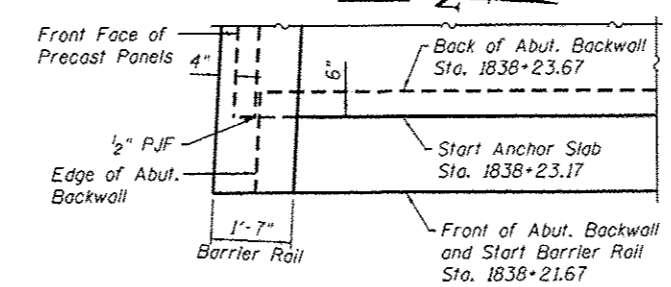
F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 547
ILLINOIS FED. AID PROJECT NUMBER			CONTRACT NO. 60W28	



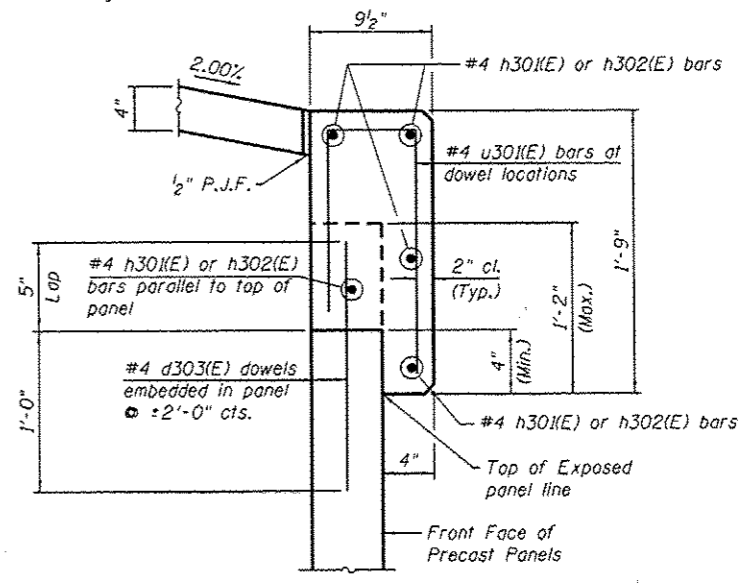
EAST MSE WALL COPING PLAN



EAST MSE WALL COPING ELEVATION (Facing West)



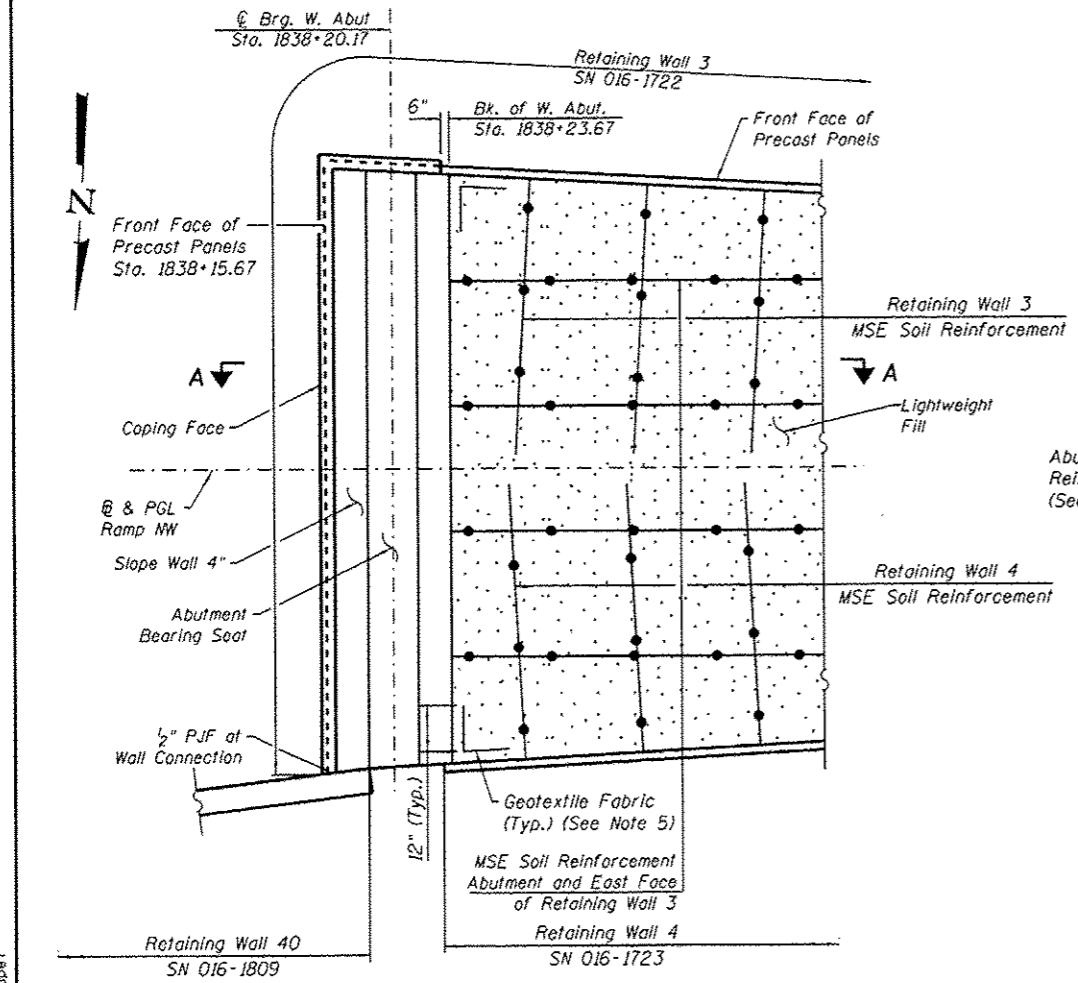
DETAIL I



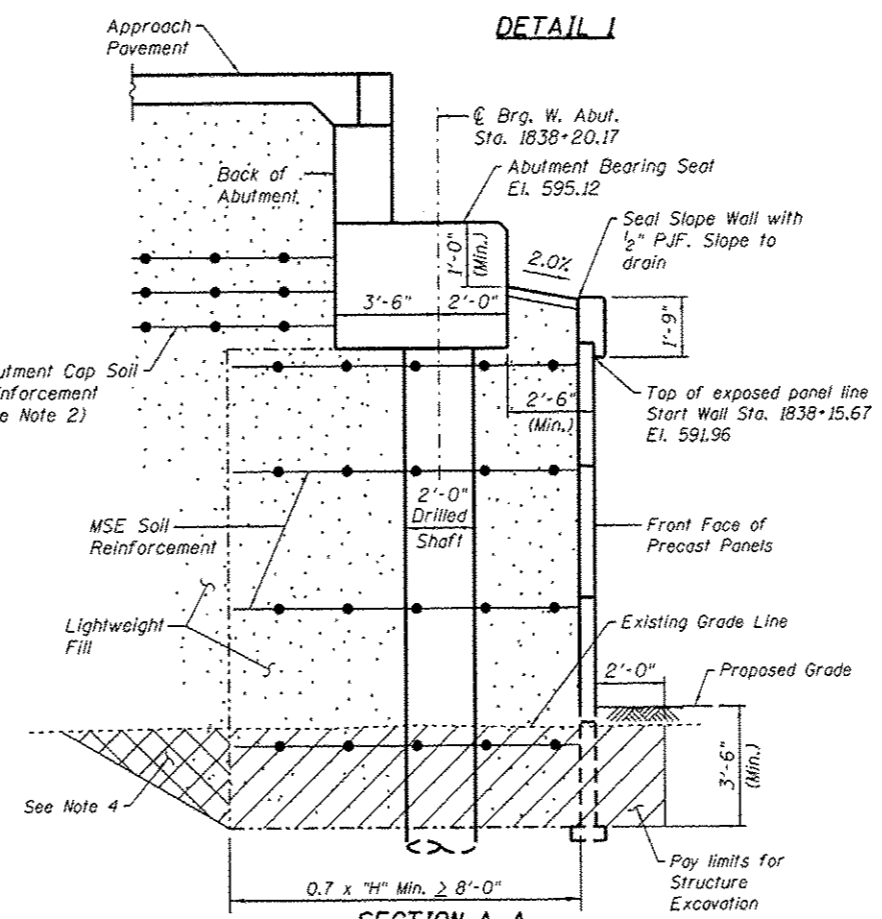
MSE COPING SECTION D-D

NOTES:

- Anchor Slab ends at Sta. 1838+23.17 where it overlaps the abutment backwall by 6". Barrier Rail ends at Sta. 1838+21.67 at front of abutment backwall. See Detail I.
- The MSE wall supplier shall design the abutment cap soil reinforcement to resist a horizontal force of 2.7 k/ft of abutment. Cost included in cost of Mechanically Stabilized Earth Retaining Wall, Special.
- See West Abutment sheets for abutment details.
- If contractor elects to overexcavate beyond limits of Structure Excavation, this area shall be backfilled with Lightweight Fill. Overexcavation, additional Lightweight Fill or Aggregate Column Ground Improvement placed in the overexcavation area will not be measured for payment.
- Cost of Geotextile Fabric is included in cost of Mechanically Stabilized Earth Retaining Wall, Special.
- 1/2" P.J.F. is installed by Standard 1051.09. Cost is included in Slope Wall 4".
- Bars noted thus, 7x3-#4 indicates 7 lines of #4 bars with 3 lengths per line.



ABUTMENT-RETAINING WALLS CONNECTION



SECTION A-A (Facing North)

0161722-60W28-505-Parapet



USER NAME - dabazlcd	DESIGNED - DEV	REVISION 6/24/2014 DD
CHECKED - ATB		
PLLOT SCALE - N.T.S.	DRAWN - BRD	
PLLOT DATE - 4/28/2014	CHECKED - EJO	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MSE WRAP AROUND DETAILS
STRUCTURE NO. 016-1722
SHEET NO. RW3-05 OF RW3-12 SHEETS

F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 549
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT NUMBER	

GENERAL NOTES:

- Reinforcement bars designated (E) shall be epoxy coated.
- Slip forming of the barrier rail is not allowed.
- Protective Coat shall be applied to the designated areas of Anchor Slabs and Barrier Rails.
- Stations and Offsets are measured from the Baseline of Ramp NW to the Front Face of Precast Panels for MSE Wall and to Front Face of Concrete Facing for Soldier Pile Wall.
- Existing abandoned 5' dia. brick CTA water tunnel to be located and filled by others in Contract 60W26 prior to construction. Soldier pile construction shall not start until tunnel filling is complete. Drilling operations must account for presence of debris, soil, tunnel, and other expected materials.
- Proposed Siphon reconstruction to occur prior to Ramp NW construction by others in Contract 60W29.
- Aggregate Column Ground Improvement is shown here for information only. Aggregate Column Ground Improvement pay item is included in Retaining Wall 3 (SN 016-1722) Bill of Material.
- See Special Provision for Mechanically Stabilized Earth Retaining Wall, Special for design and construction requirements.
- Anchor Slab and Barrier Rail concrete shall be paid for as Concrete Superstructure.
- For Drainage Structure location, type, and size, see Drainage Sheets.
- MSE supplier to design load transfer systems within reinforced soil mass to accommodate drainage structures and abutment foundations.
- Noise abatement wall, foundations, and connections are paid for under Noise Abatement Wall, Ground Mounted and Noise Abatement Wall, Structure Mounted pay items. See Noise Abatement Wall plans.
- 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 and utilities. See Special Provision for Construction Vibration Monitoring.

TOTAL BILL OF MATERIAL:

DESCRIPTION	UNIT	TOTAL
STRUCTURE EXCAVATION	CU. YD.	101
CONCRETE STRUCTURES	CU. YD.	211
CONCRETE SUPERSTRUCTURE	CU. YD.	55
BRIDGE DECK GROOVING (SPECIAL)	SQ. YD.	29
PROTECTIVE COAT	SQ. YD.	130
STUD SHEAR CONNECTORS	EACH	385
REINFORCEMENT BARS, EPOXY COATED	POUND	68,860
NAME PLATES	EACH	1
CONCRETE SEALER	SQ. FT.	6,422
GEOCOMPOSITE WALL DRAIN	SQ. YD.	73
DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU. FT.	25,533
LIGHTWEIGHT CELLULAR CONCRETE FILL	CU. YD.	136
UNTREATED TIMBER LAGGING	SQ. FT.	1,000
FURNISHING SOLDIER PILES (W SECTION)	FOOT	2,016
MECHANICALLY STABILIZED EARTH RETAINING WALL, SPECIAL	SQ. FT.	430
PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	157
FOUNDATION REMOVAL	CU. YD.	63

INDEX OF SHEETS:

- RW4-01 General Plan and Elevation
- RW4-02 Total Bill of Materials, Index of Sheets & General Notes
- RW4-03 Typical Sections
- RW4-04 Barrier Rail and Anchor Slab - I
- RW4-05 Barrier Rail and Anchor Slab - II
- RW4-06 Barrier Rail and Anchor Slab Sections
- RW4-07 Concrete Facing Elevation & Details
- RW4-08 Soldier Pile Wall Sections & Details
- RW4-09 Soldier Pile Cap & Barrier
- RW4-10 Details
- RW4-11 Architectural Details
- RW4-12 Boring Logs - I
- RW4-13 Boring Logs - II
- RW4-14 Boring Logs - III
- RW4-15 Boring Logs - IV

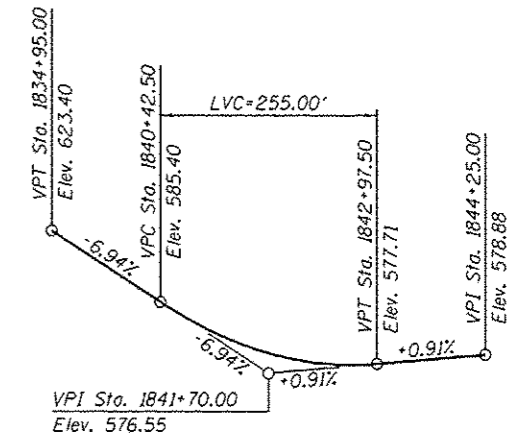
TABLE 1

Wall Type	Station	Offset	Elevation D	Elevation E	Elevation F
MSE	1838+23.17	18'-5 1/8" Rt.	600.25	594.54	584.17
MSE	1838+25.00	18'-4" Rt.	600.16	594.50	584.22
MSE	1838+44.32	17'-3" Rt.	598.83	594.13	584.94
MSE	1838+50.00	17'-3" Rt.	598.44	594.02	585.25
MSE	1838+62.00	17'-3" Rt.	597.61	593.79	585.83
MSE	1838+75.00	17'-3" Rt.	596.71	593.54	586.17
Soldier Pile	1838+98.00	16'-0" Rt.	595.11	593.10	588.44
Soldier Pile	1839+00.00	16'-0" Rt.	594.97	593.10	588.49
Soldier Pile	1839+25.00	16'-0" Rt.	593.24	593.20	588.66
Soldier Pile	1839+50.00	16'-0" Rt.	591.50	593.29	588.63
Soldier Pile	1839+75.00	16'-0" Rt.	589.76	593.38	588.64
Soldier Pile	1840+00.00	16'-0" Rt.	588.03	593.48	588.61
Soldier Pile	1840+17.00	16'-0" Rt.	586.85	593.54	588.61
Soldier Pile	1840+25.00	16'-0" Rt.	586.29	593.57	588.61
Soldier Pile	1840+50.19	16'-0" Rt.	584.56	593.66	588.60
Soldier Pile	1840+75.00	17'-8 3/4" Rt.	582.96	593.75	589.51
Soldier Pile	1841+00.00	19'-5 3/4" Rt.	581.53	593.84	590.47
Soldier Pile	1841+25.00	21'-2 3/4" Rt.	580.30	593.93	591.52
Soldier Pile	1841+26.23	21'-3 3/4" Rt.	580.24	593.94	591.56

Elevation D - Edge of Shoulder at Face of Barrier Rail / Concrete Facing
 Elevation E - Proposed Grade Line at Front Face of MSE Wall / Back Face of Soldier Pile Wall
 Elevation F - Existing Grade Line at Front Face of MSE Wall / Back Face of Soldier Pile Wall

SUGGESTED SEQUENCE OF CONSTRUCTION:

- Locate existing utilities that are to remain. Contractor to coordinate any required improvements to or removals of existing utilities with utility owner(s). See Utility Location Plans and ITS Plans.
- Locate and remove any abandoned CTA foundations that are in conflict with Retaining Walls 3, 4, 40, or Noise Abatement Wall.
- Install drilled soldier piles for Retaining Wall 4 soldier pile wall.
- Install drilled shafts for SN 016-1705 West Abutment.
- Install foundations for Noise Abatement Wall.
- Excavate for Retaining Walls 3, 4, and 40. Install temporary lagging between soldier piles of Retaining Wall 4 from top down as excavation proceeds if needed to retain existing soil.
- Install Aggregate Column Ground Improvement for Retaining Walls 3, 4, and 40.
- Construct Retaining Wall 40, placing MSE straps to avoid Noise Abatement Wall foundations.
- Begin placing lightweight fill and installing Retaining Wall 3 up to height of Retaining Wall 4 MSE leveling pad. Install Drainage System.
- Install Concrete Facing on soldier piles of Retaining Wall 4. Backfill north side of wall.
- Complete West Abutment of SN 016-1705. Install Retaining Wall 4 soldier pile cap and barrier on top of piles and concrete facing.
- Complete remainder of Retaining Wall 3 while installing MSE portion of Retaining Wall 4.
- Install Anchor Slabs and Barrier Rails for Retaining Walls 3 and 4.
- Install Roadway pavement and Noise Abatement Wall.



PROFILE GRADE
(along Ramp NW)

STATION 1838+23.17
 BUILT BY
 STATE OF ILLINOIS
 F.A.I. RTE. 90/94/290-SEC. 2013-010R
 LOADING HL-93
 STRUCTURE NO. 016-1723

NAME PLATE
See Std. 515001

0161723-60W28-502-GenNote



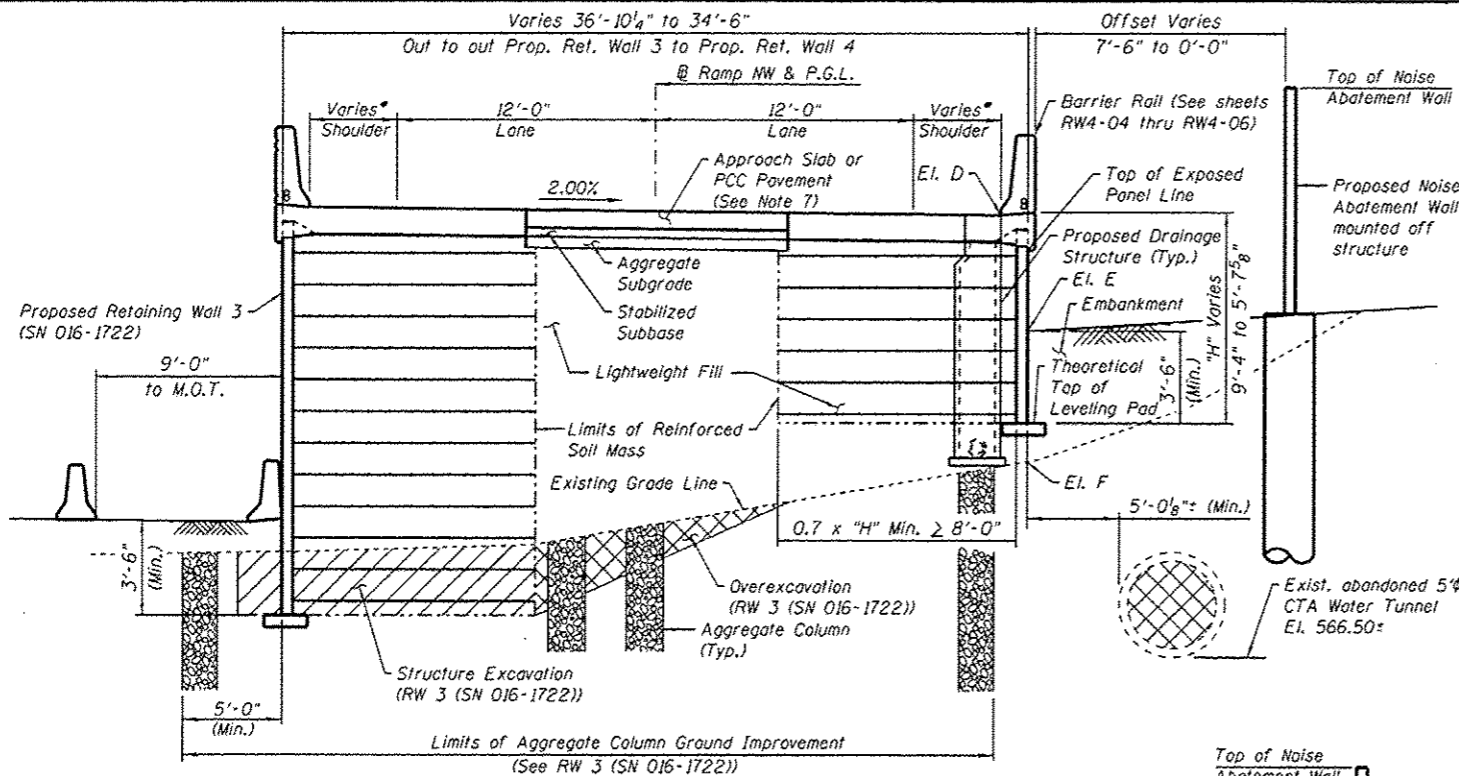
USER NAME	dabo21cd	DESIGNED	DEV	REVISED	6/24/2014 DD
CHECKED	ATB	REVISIONS			
PLOT SCALE	N.T.S.	DRAWN	BRD	REVISED	
PLOT DATE	4/28/2014	CHECKED	EJO	REVISED	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TOTAL BILL OF MATERIALS, INDEX OF SHEETS & GENERAL NOTES
 STRUCTURE NO. 016-1723

SHEET NO. RW4-02 OF RW4-15 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	556
CONTRACT NO.			60W28	
ILLINOIS FED. AID PROJECT NUMBER				

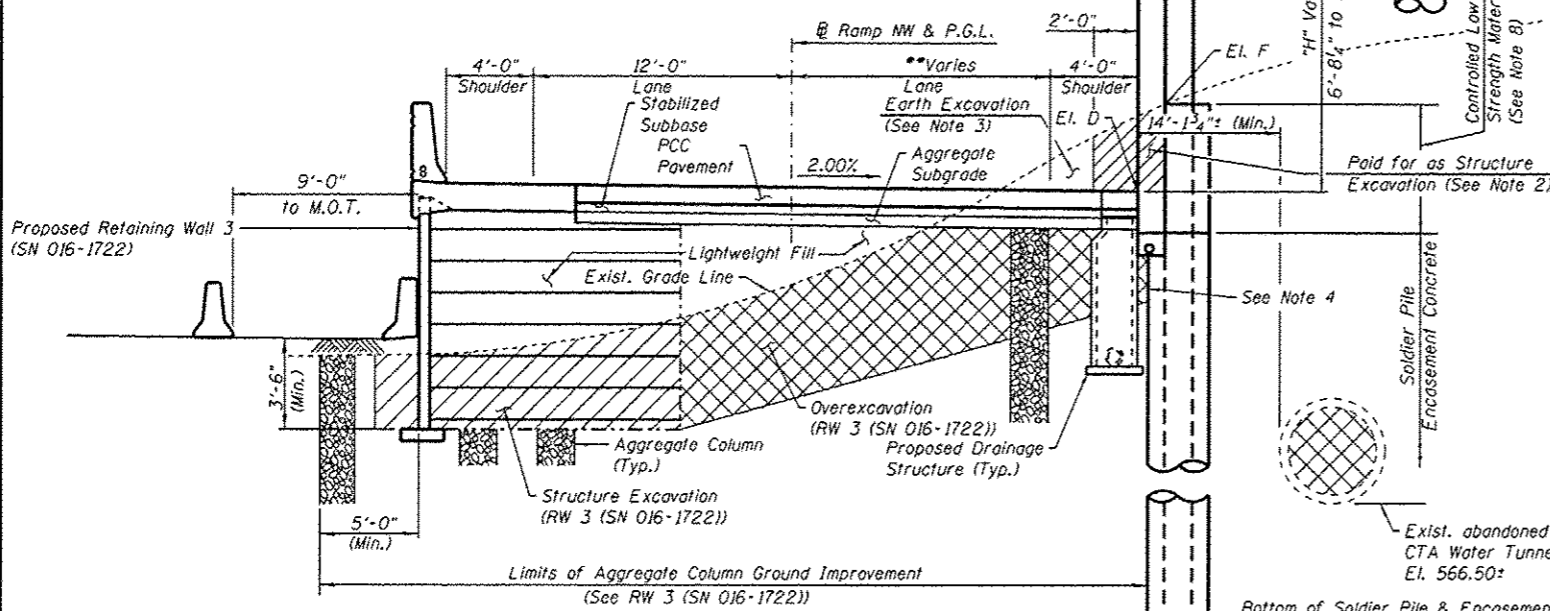


* Shoulder widths vary from 5'-2 1/2" at Sta. 1838+23.17 to 4'-0" at Sta. 1838+44.32

TYPICAL SECTION 1
(Sta. 1838+23.17 to Sta. 1838+98.00)
(Facing West)

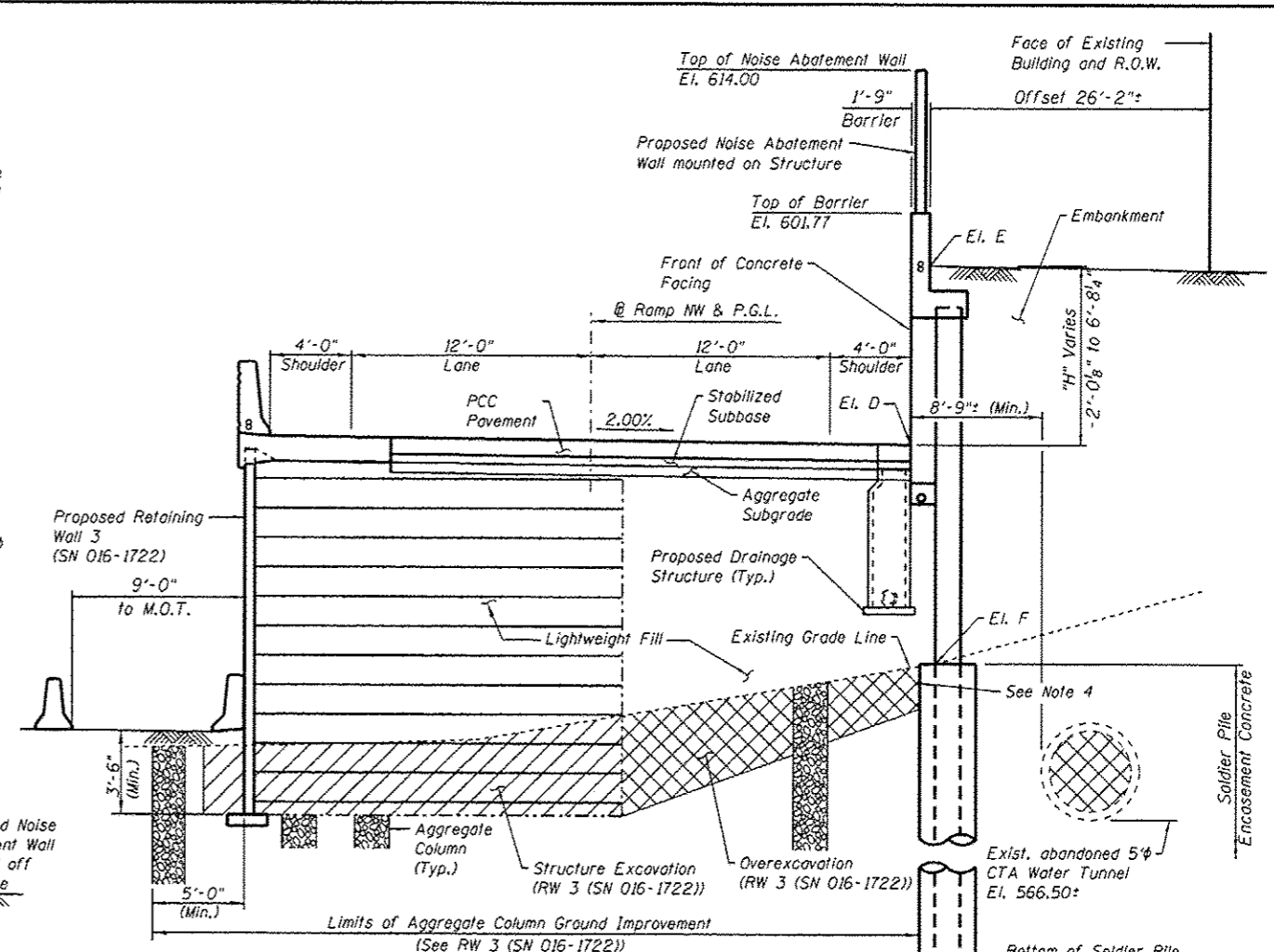
BILL OF MATERIAL

Item	Unit	Quantity
Structure Excavation	Cu. Yd.	101
Lightweight Cellular Concrete Fill	Cu. Yd.	136
Mechanically Stabilized Earth Retaining Wall, Special	Sq. Ft.	430

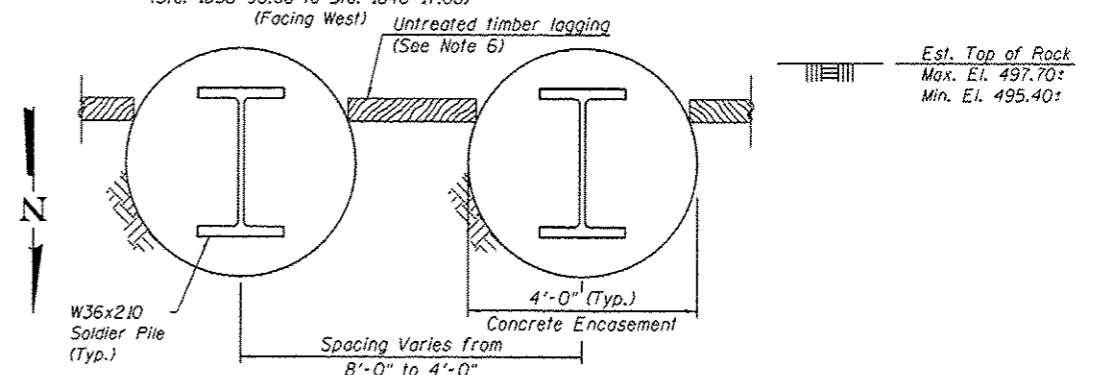


** Lane width is 12'-0" from Sta. 1840+17.00 to Sta. 1840+50.19. Width varies 12'-0" to 17'-3 3/4" from Sta. 1840+50.19 to Sta. 1841+26.23.

TYPICAL SECTION 3
(Sta. 1840+17.00 to Sta. 1841+26.23)
(Facing West)



TYPICAL SECTION 2
(Sta. 1838+98.00 to Sta. 1840+17.00)
(Facing West)



TEMPORARY LAGGING DETAIL

NOTES:

- For Embankment quantity and pay item, see Civil plans.
- Structure Excavation is measured 2'-0" from Front Face of wall to back of soldier pile timber lagging.
- For additional Earth Excavation quantity and pay item, see Civil plans.
- Contractor shall not excavate north of soldier piles. If overexcavation for Retaining Wall 3 projects north of soldier piles, Contractor may install temporary lagging between soldier piles to retain existing soil until fill is placed. Temporary lagging for overexcavation is not measured for payment.
- For Elevations D, E, and F see Table 1 on sheet RW4-02.
- The Contractor is responsible for the design and performance of the lagging system, using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi. The Contractor shall submit design calculations and details prepared by an Illinois Licensed Structural Engineer for the attachment of the lagging to the concrete encasement for approval by the Engineer. Alternative equivalent systems may be submitted for approval by the Engineer.
- Approach Slab for NW Flyover (SN 016-1705) is between Anchor Slabs from Sta. 1838+23.17 to Sta. 1838+53.17. See bridge plans.
- Cost of controlled low-strength material is included in cost of Drilling and Setting Soldier Piles (in Soil) pay item.

Est. Top of Rock
Max. El. 497.70±
Min. El. 492.00±

0161723-60W28-503-GenNote



USER NAME = dobezicd	DESIGNED - DEV	REVISED - 6/24/2014 DD
PLOT SCALE = N.T.S.	CHECKED - ATB	REVISED
PLOT DATE = 4/28/2014	DRAWN - BRD	REVISED
	CHECKED - EJO	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
STRUCTURE NO. 016-1723

SHEET NO. RW4-03 OF RW4-15 SHEETS

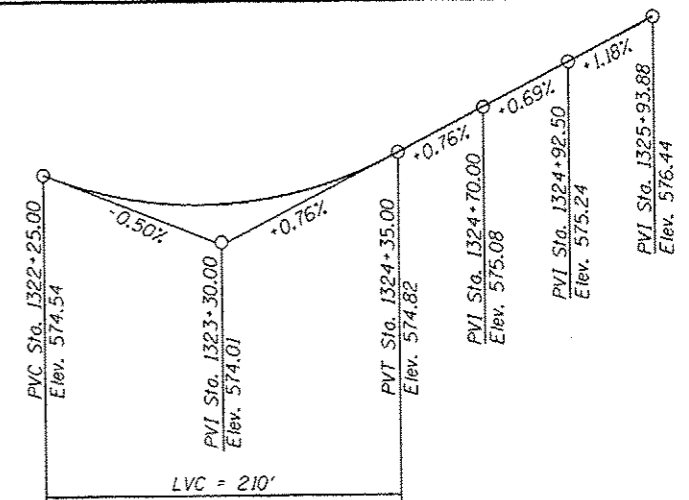
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	557
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT NUMBER	

GENERAL NOTES:

- Reinforcement bars designated (E) shall be epoxy coated.
- Plan dimensions and details relative to Halsted Street Bridge Plans (Contract No. 60W26) 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.
- 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 building foundations. Driving piles and temporary sheet piling is not allowed. See Special Provision for Construction Vibration Monitoring.
- Slipforming of parapets is not allowed.
- 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.
- Abandoned 5' diameter CTA Water Tunnel will be filled in a previous contract. The Contractor shall verify with the Engineer that the tunnel has been filled prior to the start of MSE construction.
- The wall supplier shall provide additional details for the soil reinforcement to avoid conflict with the proposed noise abatement wall. See Noise Abatement Wall plans for locations.
- Protective Coat shall be applied to the designated areas of the Anchor Slab and Parapet.
- Wall offsets are measured from the centerline of F.A.I. Rte. 90/94 (Ramp SW) to the front face of precast panels.
- Quantity for Lightweight Cellular Concrete Fill includes reinforced soil mass and fill. Type is specified as Class II Lightweight Fill.

INDEX OF SHEETS

- RW40-01 General Plan and Elevation
- RW40-02 General Data
- RW40-03 Parapet and Anchorage Slab Plan and Elevation
- RW40-04 MSE Cross Section and Details
- RW40-05 Architectural Details
- RW40-06 Aggregate Column Ground Improvement Details
- RW40-07 Boring Logs 1
- RW40-08 Boring Logs 2
- RW40-09 Boring Logs 3
- RW40-10 Boring Logs 4
- RW40-11 Boring Logs 5
- RW40-12 Boring Logs 6



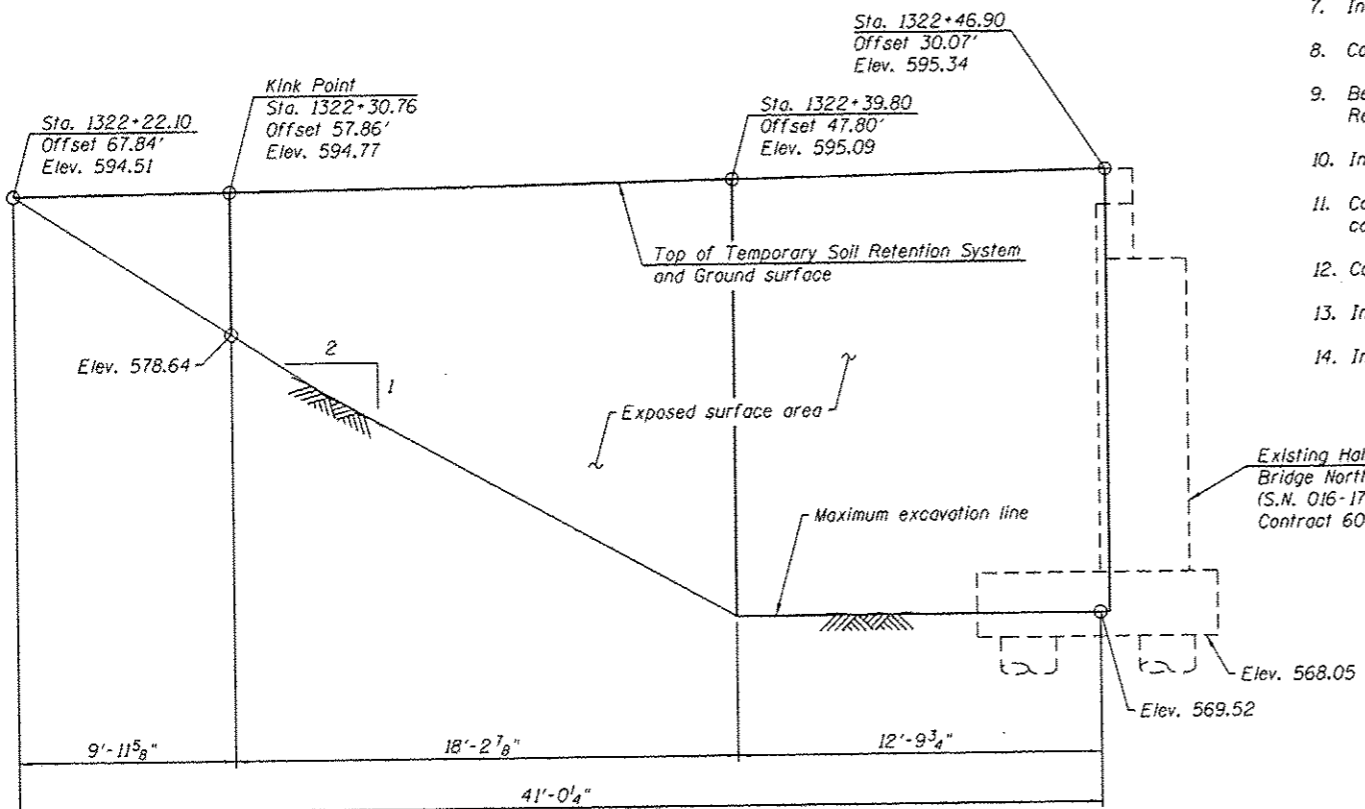
PROFILE GRADE
(Along @ Ramp SW)

SUGGESTED SEQUENCE OF CONSTRUCTION

- Locate existing utilities that are to remain. Contractor to coordinate any required improvements to or removals of existing utilities with utility owner(s). See Utility Location Plans and ITS Plans.
- Locate and remove any abandoned CTA foundations that are in conflict with Retaining Walls 3, 4, 40, or Noise Abatement Wall.
- Install drilled soldier piles for Retaining Wall 4 soldier pile wall.
- Install drilled shafts for SN 016-1705 West Abutment.
- Install foundations for Noise Abatement Wall.
- Excavate for Retaining Walls 3, 4, and 40. Install temporary lagging between soldier piles of Retaining Wall 4 from top down as excavation proceeds if needed to retain existing soil.
- Install Aggregate Column Ground Improvement for Retaining Walls 3, 4, and 40.
- Construct RW 40, placing MSE straps to avoid Noise Abatement Wall foundations.
- Begin placing lightweight fill and installing Retaining Wall 3 up to height of Retaining Wall 4 MSE leveling pad. Install Drainage System.
- Install Concrete Facing on soldier piles of Retaining Wall 4. Backfill north side of wall.
- Complete West Abutment of SN 016-1705. Install Retaining Wall 4 soldier pile cap and barrier on top of piles and concrete facing.
- Complete remainder of Retaining Wall 3 while installing MSE portion of Retaining Wall 4.
- Install Anchor Slabs and Barrier Rails for Retaining Walls 3 and 4.
- Install Roadway pavement and Noise Abatement Wall.

TABLE 1

Station	Offset	Elevation A	Elevation B	Elevation C
1322+49.13	30.07 Lt.	595.38	574.02	574.05
1322+75.00	30.07 Lt.	595.30	574.47	574.05
1323+00.00	30.07 Lt.	594.66	575.03	578.80
1323+25.00	30.07 Lt.	594.63	576.97	577.91
1323+50.00	30.07 Lt.	594.43	577.32	578.29
1323+75.00	33.5 Lt.	594.52	578.29	578.56
1324+00.00	38.29 Lt.	594.63	579.55	580.24
1324+25.00	41.99 Lt.	594.63	580.81	581.07
1324+50.00	44.63 Lt.	594.63	582.13	582.28
1324+75.00	46.24 Lt.	594.56	583.69	583.76
1325+00.00	45.77 Lt.	594.48	585.42	583.96
1325+11.44	45.11 Lt.	594.54	585.41	584.18



TEMPORARY SOIL RETENTION SYSTEM
(Along Halsted Street Bridge S.N. 016-1716 Approach Slab)

BILL OF MATERIAL

Item	Unit	Total
Temporary Soil Retention System	Sq. Ft.	790

STATION 1322+49.13
BUILT 20-- BY
STATE OF ILLINOIS
F.A.I. RT. 90/94 SEC. 2013-010R
STR. NO. 016-1809

NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

Item	Unit	Total
Structure Excavation	Cu. Yd.	1528
Concrete Superstructure	Cu. Yd.	151.1
Protective Coat	Sq. Yd.	152
Reinforcement Bars, Epoxy Coated	Pound	16,720
Name Plates	Each	1
Aggregate Column Ground Improvement	L. Sum	0.1
Lightweight Cellular Concrete Fill	Cu. Yd.	3054
Mechanically Stabilized Earth Retaining Wall, Special	Sq. Ft.	3748
Temporary Soil Retention System	Sq. Ft.	790
Removal of Temporary Soil Retention System	Sq. Ft.	555
Foundation Removal	Cu. Yd.	45
Stainless Steel Cable Plant Support System - RW 40	L. Sum	1

3:07:47 PM - c:\pwworking\concom\00\ktrase\img\20264557\068009-60W28-S02-GenNote.dgn



USER NAME - ktrase	DESIGNED - KAH	REVISED - 06/24/2014 WJC
PLT SCALE - 20.0000 1" = 1'	CHECKED - DL/KAL	REVISED -
PLDT DATE - 4/28/2014	DRAWN - RLS	REVISED -
	CHECKED - DL/KAL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 016-1809

F.A.I. RTE. 90/94	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 569
SHEET NO. RW40-02 OF RW40-12 SHEETS			ILLINOIS FED. AID PROJECT CONTRACT NO. 60W28	

GROUND IMPROVEMENT PERFORMANCE REQUIREMENTS

Equivalent Uniform Service Bearing Pressure shall be interpolated between the values shown.

The Shop Drawings and construction procedures submittal shall indicate the sequence of construction within the limits of Aggregate Column Ground Improvement. The aggregate column installation shall be coordinated with existing utilities, existing structural removals, and proposed utility installation.

Settlement during construction shall not exceed 3 inches, and settlement after completion of the wall and anchorage slab shall not exceed 1 inch.

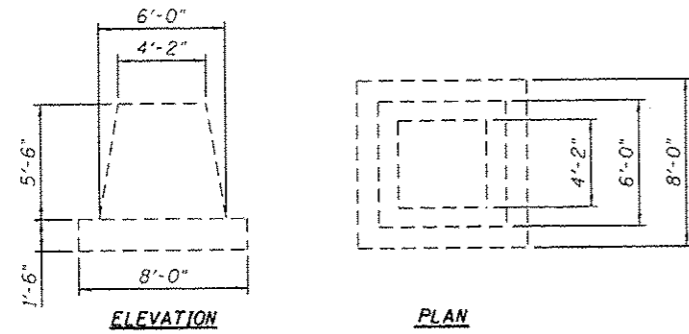
Minimum factor of safety for Equivalent Uniform Service Bearing Pressure shall be 2.5.

Notes:

Aggregate column ground improvement shall be designed and installed by the Contractor in accordance with special provision for Aggregate Column Ground Improvement.

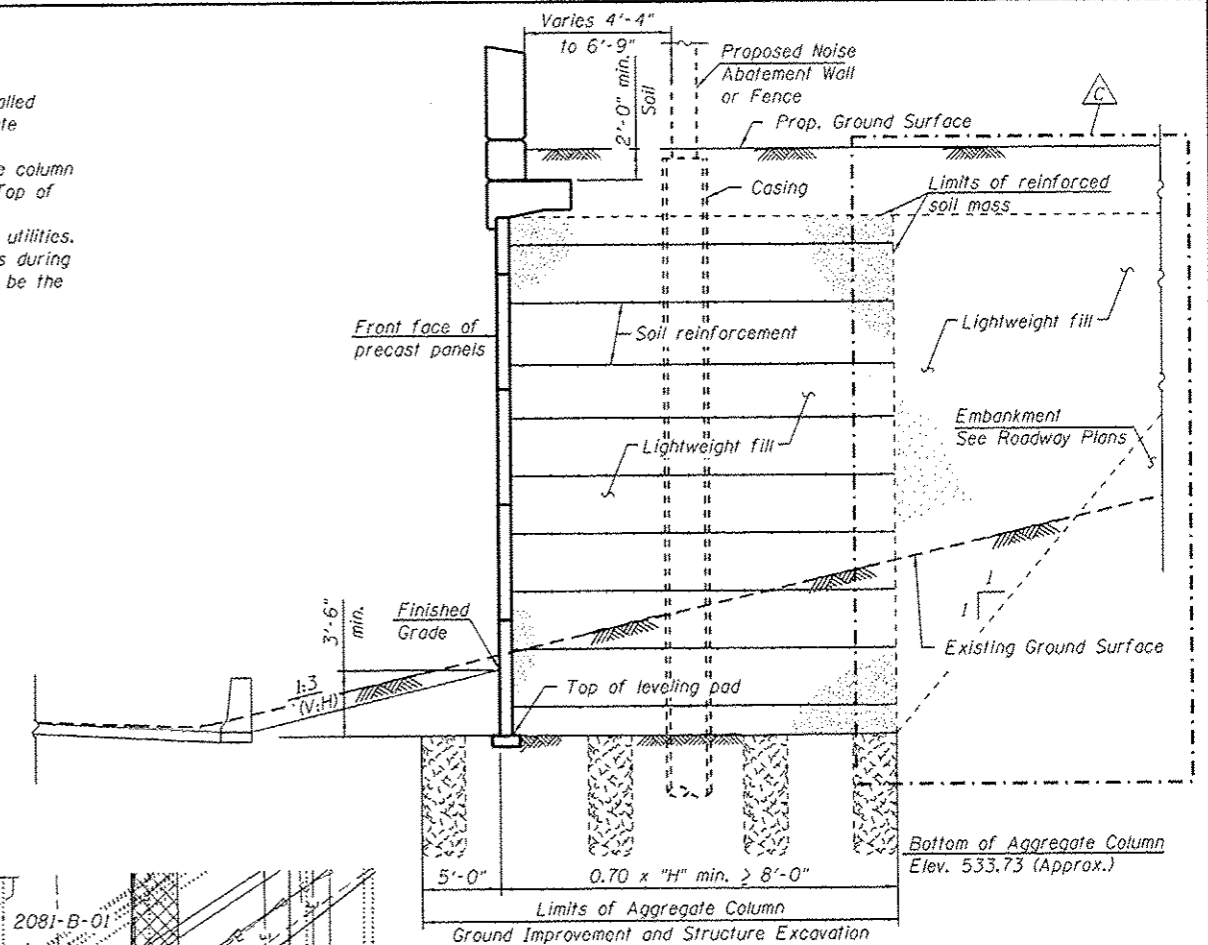
Within the Limits of Structure Excavation, depth of the aggregate column for Aggregate Column Ground Improvement will be measured from Top of Leveling Pad to Bottom of the Aggregate Column.

The Contractor shall field verify location of existing underground utilities. The Contractor shall take all precautions to protect existing utilities during construction of the wall. Any damages to the existing utilities shall be the responsibility of the Contractor.

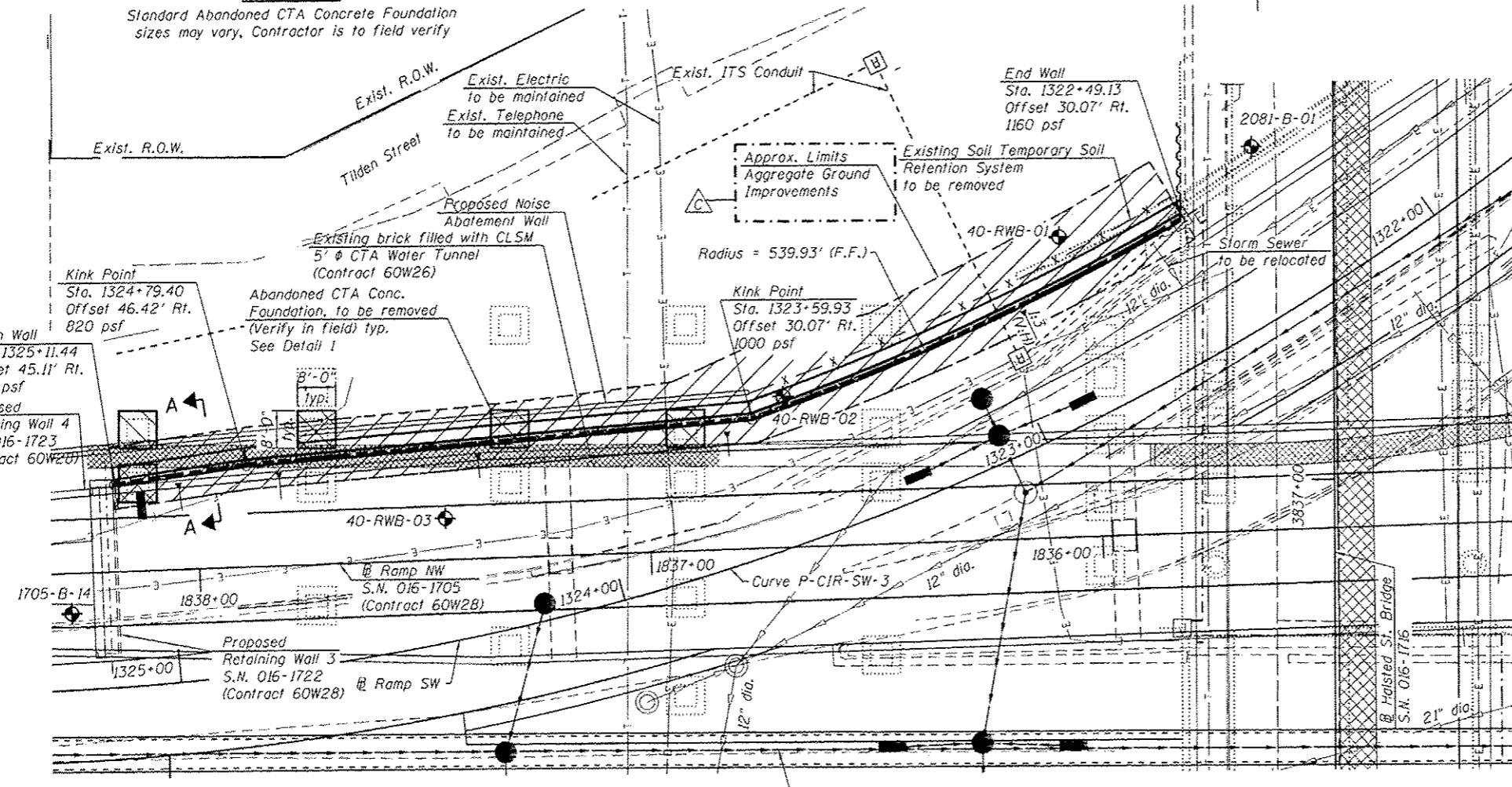


DETAIL 1
ELEVATION PLAN

Standard Abandoned CTA Concrete Foundation sizes may vary. Contractor is to field verify



SECTION A-A



PLAN

LEGEND

- ◆ Boring
- ▨ Aggregate Column Ground Improvement
- ▩ Foundation Removal

BILL OF MATERIAL

Item	Unit	Total
Aggregate Column Ground Improvement	L. Sum	0.1
Foundation Removal	Cu. Yd.	45



USER NAME = kshettings	DESIGNED = KAH	REVISED = 06/24/2014 WJC
PLOT SCALE = 1/8" = 1' in.	CHECKED = DL	REVISED =
PLOT DATE = 6/25/2014	DRAWN = RLS	REVISED =
	CHECKED = DL	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

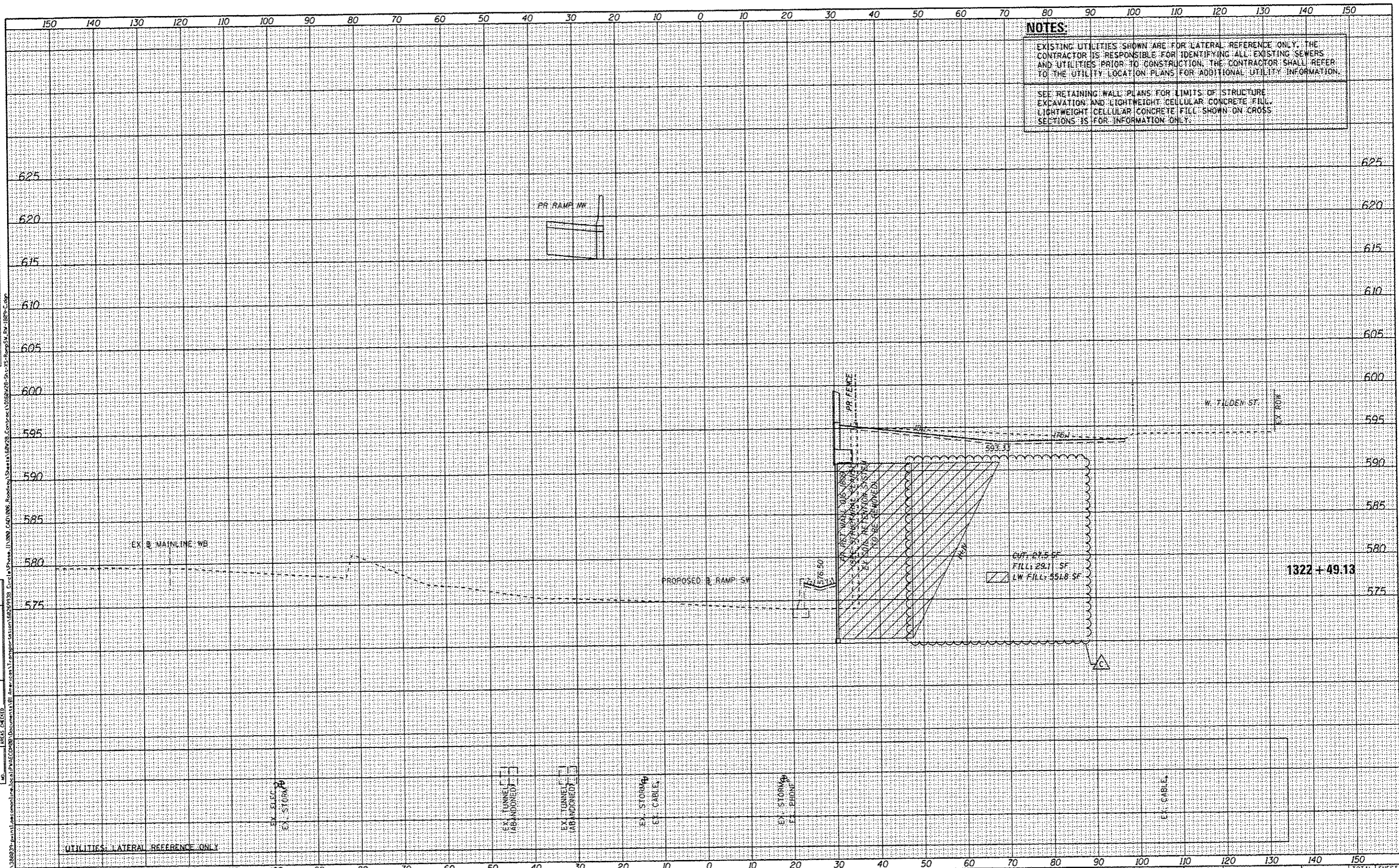
AGGREGATE COLUMN GROUND IMPROVEMENT DETAILS
STRUCTURE NO. 016-1809

SHEET NO. RW40-06 OF RW40-12 SHEETS

F.A.I. RTE. 90/94	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 573
ILLINOIS FEB. AID PROJECT			CONTRACT NO. 60W28	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
FINAL	
DATE	
BY	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
FINAL	
DATE	
BY	



NOTES:
 EXISTING UTILITIES SHOWN ARE FOR LATERAL REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING SEWERS AND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO THE UTILITY LOCATION PLANS FOR ADDITIONAL UTILITY INFORMATION.
 SEE RETAINING WALL PLANS FOR LIMITS OF STRUCTURE EXCAVATION AND LIGHTWEIGHT CELLULAR CONCRETE FILL. LIGHTWEIGHT CELLULAR CONCRETE FILL SHOWN ON CROSS SECTIONS IS FOR INFORMATION ONLY.



DESIGNED - NWM / AJP	REVISOR - 6/24/2014
DRAWN - NWM / AJP	REVISOR -
CHECKED - KAM	REVISOR -
DATE - 6/24/14	REVISOR -

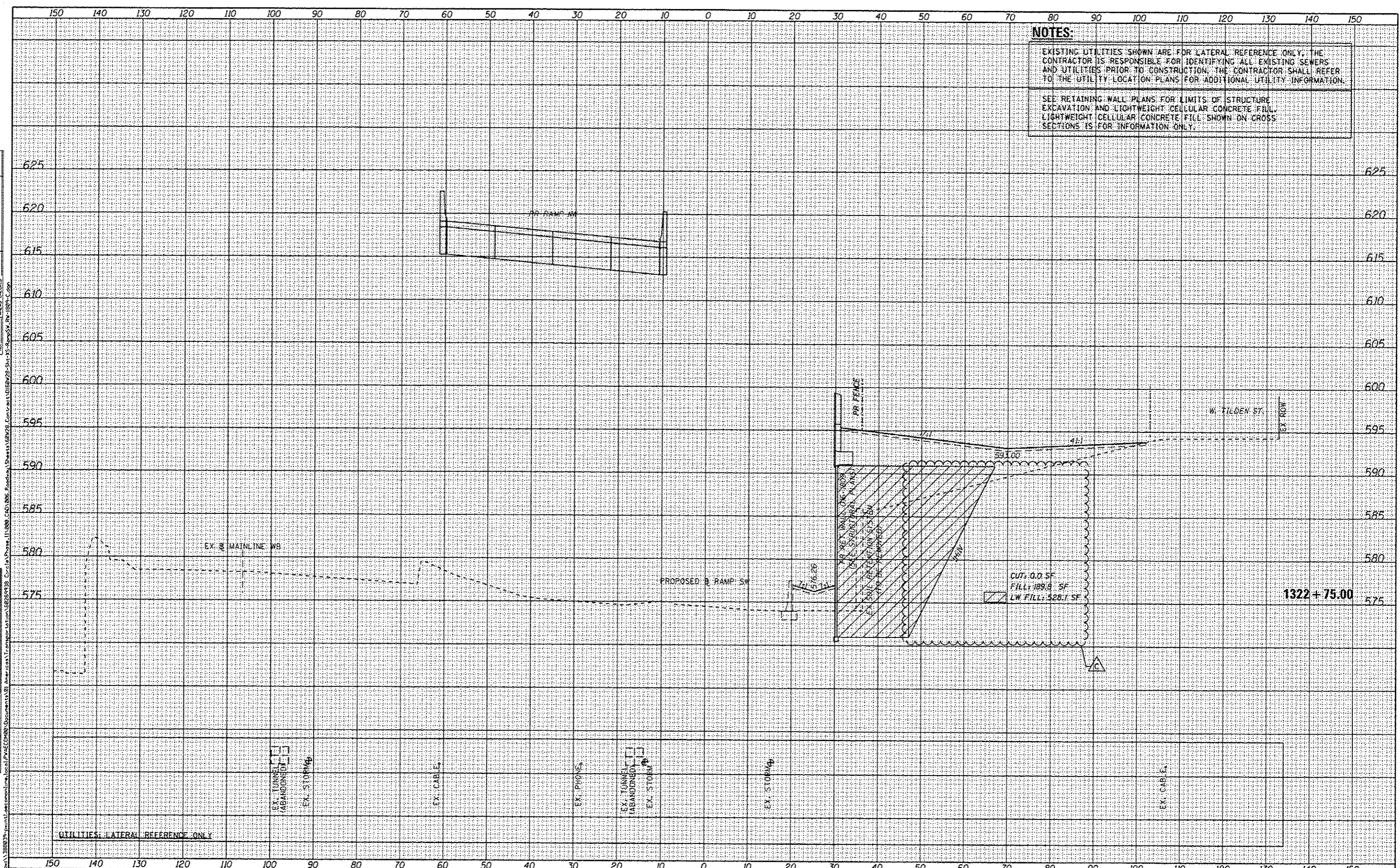
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
RAMP SW & RETAINING WALL 016-1809	
SCALE: 1:5V, 1:10H	SHEET 1 OF 15 SHEETS
STA. 1322+49.13 TO STA. 1322+49.13	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	732
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	
NOTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

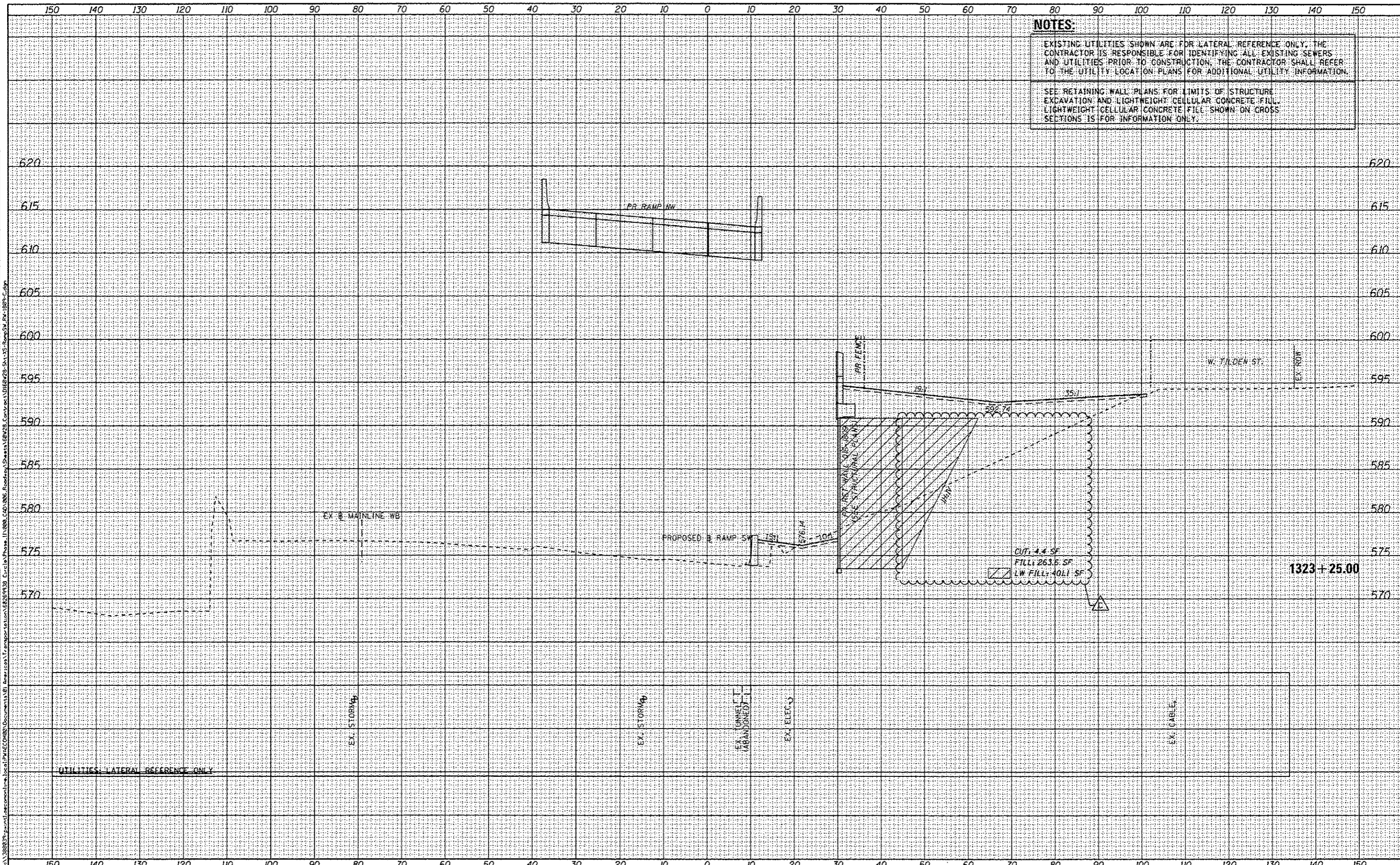


NOTES:
 EXISTING UTILITIES SHOWN ARE FOR LATERAL REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING SEWERS AND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO THE UTILITY LOCATION PLANS FOR ADDITIONAL UTILITY INFORMATION.
 SEE RETAINING WALL PLANS FOR LIMITS OF STRUCTURE EXCAVATION AND LIGHTWEIGHT CELLULAR CONCRETE FILL. LIGHTWEIGHT CELLULAR CONCRETE FILL SHOWN ON CROSS SECTIONS IS FOR INFORMATION ONLY.

<p>303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-2021 PHONE: (312) 313-7100 FAX: (312) 313-6800</p>	D:\6028-Sht-XS-RampSW_RV-1809-C.dgn USER NAME: maronh PLOT SCALE: 20.0000' / in. PLOT DATE: 6/23/2014	DESIGNED - NWM / AJP DRAWN - NWM / AJP CHECKED - KAM DATE - 6/24/14	REVISED - 6/24/2014 REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS RAMP SW & RETAINING WALL 016-1809 SCALE: 1:5V, 1:10H SHEET 2 OF 15 SHEETS STA. 1322+75.00 TO STA. 1322+75.00	F.A.I. RTE. 90/94/290 SECTION 2013-010R COUNTY COOK TOTAL SHEETS 747 SHEET NO. 733	CONTRACT NO. 60W28 ILLINOIS FED. AID PROJECT
---	--	--	--	---	---	--	---

DATE	
BY	
CONVEYED	
PROTECTED	
NOTED	
TEMPLATE	
AREAS	
CHECKED	

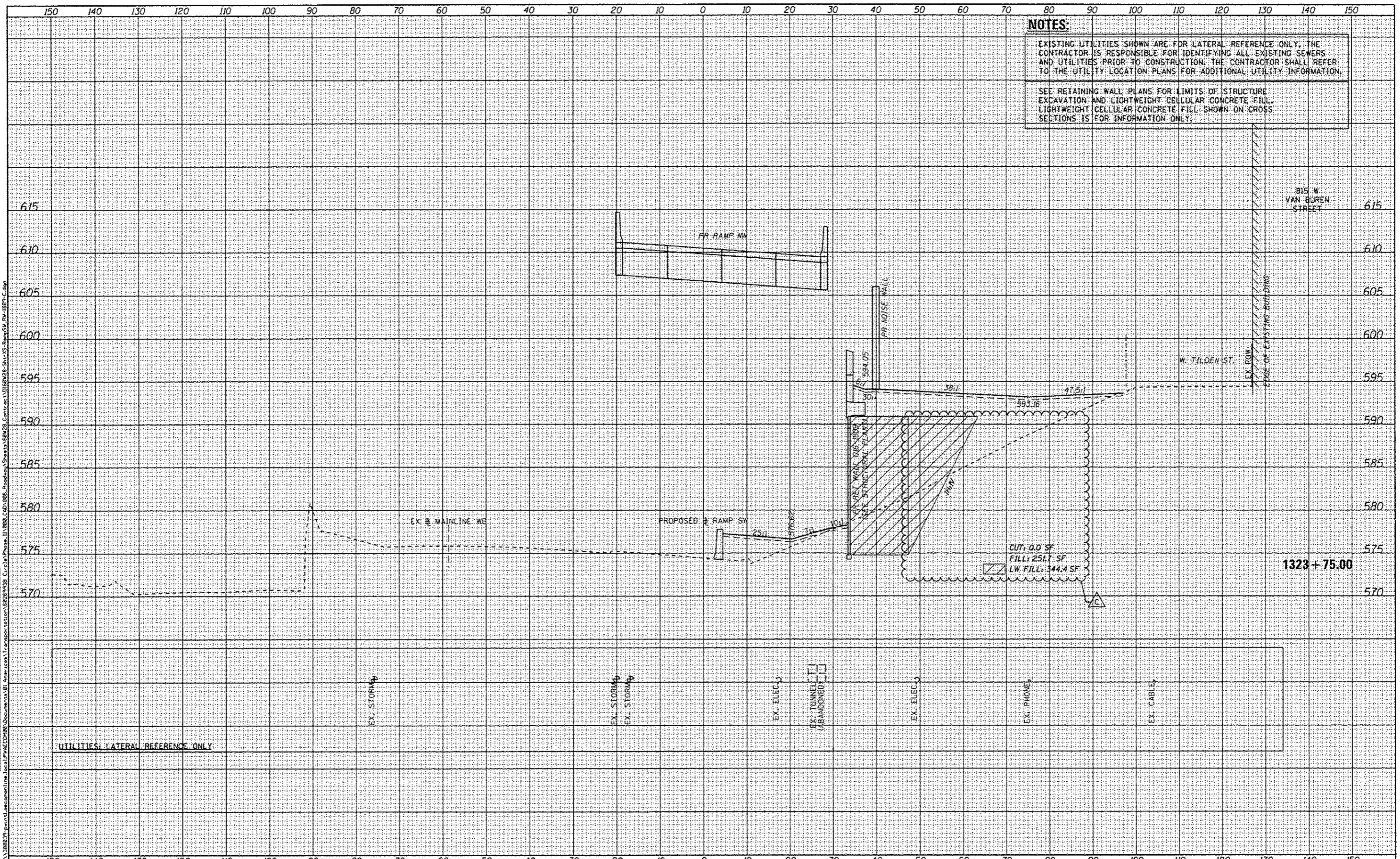
DATE	
BY	
ORIGINAL	
SHEET	
NOTE BOOK	
AREAS	
CHECKED	



NOTES:
 EXISTING UTILITIES SHOWN ARE FOR LATERAL REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING SEWERS AND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO THE UTILITY LOCATION PLANS FOR ADDITIONAL UTILITY INFORMATION.
 SEE RETAINING WALL PLANS FOR LIMITS OF STRUCTURE EXCAVATION AND LIGHTWEIGHT CELLULAR CONCRETE FILL. LIGHTWEIGHT CELLULAR CONCRETE FILL SHOWN ON CROSS SECTIONS IS FOR INFORMATION ONLY.

FINL	WORKED	BY	DATE
SHEET	NOTED		
NOTE BOOK	TEMPLATE		
AREAS	AREAS		
CHECKED			

ORIGINAL	BY	DATE
SHEET		
NOTE BOOK		
AREAS		
CHECKED		



NOTES:

EXISTING UTILITIES SHOWN ARE FOR LATERAL REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING SEWERS AND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO THE UTILITY LOCATION PLANS FOR ADDITIONAL UTILITY INFORMATION.

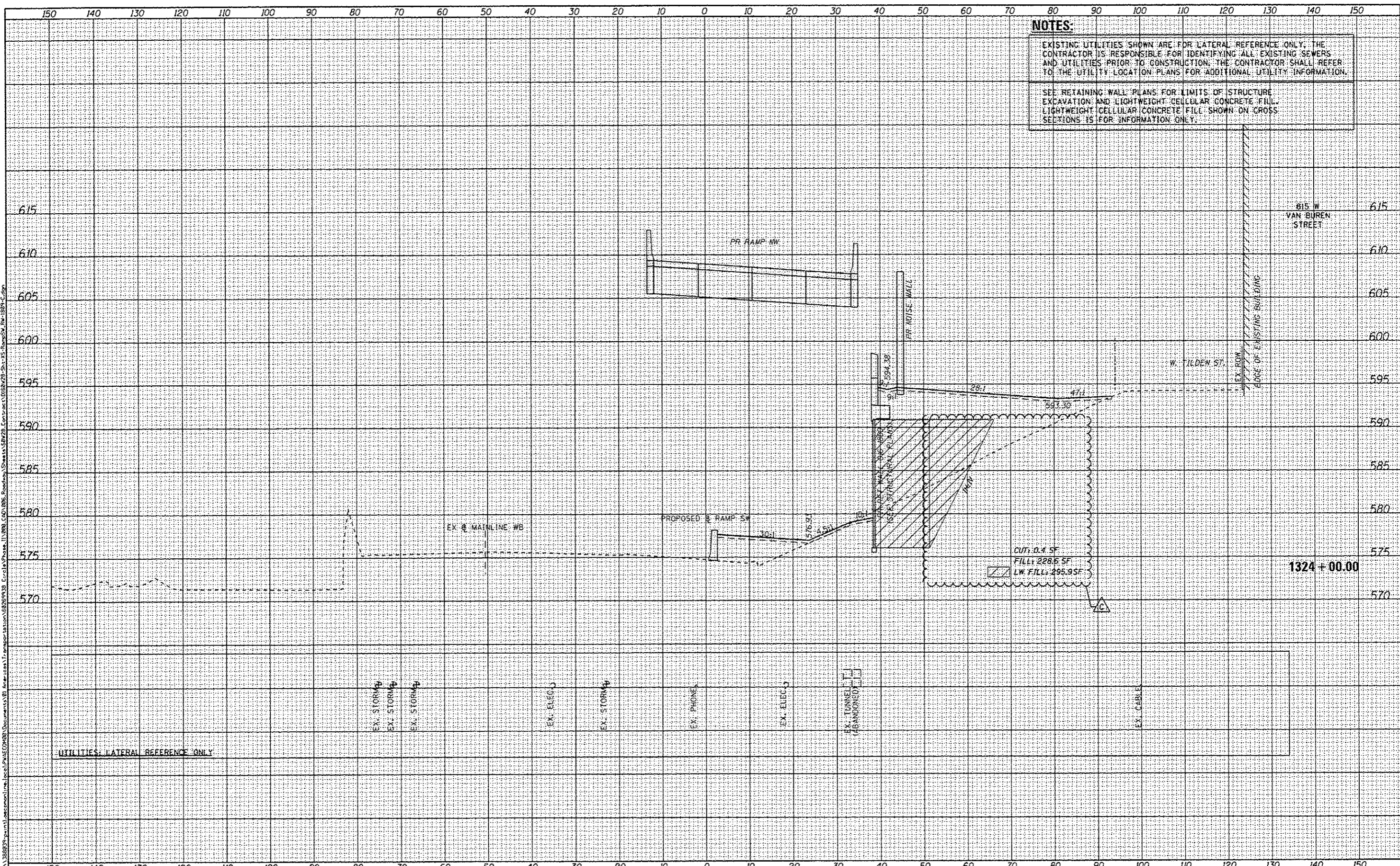
SEE RETAINING WALL PLANS FOR LIMITS OF STRUCTURE EXCAVATION AND LIGHTWEIGHT CELLULAR CONCRETE FILL. LIGHTWEIGHT CELLULAR CONCRETE FILL SHOWN ON CROSS SECTIONS IS FOR INFORMATION ONLY.

<p>303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-3176 PHONE: (312) 275-1700 FAX: (312) 275-4400</p>	DIGB28-Sht-XS-RampSW-1809-C.dgn USER NAME: moranik PLOT SCALE: 20.0000' / in. PLOT DATE: 6/23/2014	DESIGNED - NWM / AJP DRAWN - NWM / AJP CHECKED - KAM DATE - 6/24/14	REVISED - 6/24/2014 REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS RAMP SW & RETAINING WALL 016-1809 SCALE: 1:5V, 1:10H SHEET 6 OF 15 SHEETS STA. 1323+75.00 TO STA. 1323+75.00	F.A.I. RTE. 90/94/290 SECTION 2013-010R COUNTY COOK TOTAL SHEETS 747 SHEET NO. 737 CONTRACT NO. 60W28 ILLINOIS FED. AID PROJECT
---	---	--	--	---	---	---

FILE PATH: I:\98893\98893\plan\1323+75.00\1323+75.00.dwg

DATE	
BY	
FINL SURVEY	
NOTE BOOK	
NO.	
APPROVED	
PLOTTED	
TEMP. BY	
AS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
APPROVED	
PLOTTED	
TEMP. BY	
AS CHECKED	



NOTES:
 EXISTING UTILITIES SHOWN ARE FOR LATERAL REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING SEWERS AND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO THE UTILITY LOCATION PLANS FOR ADDITIONAL UTILITY INFORMATION.
 SEE RETAINING WALL PLANS FOR LIMITS OF STRUCTURE EXCAVATION AND LIGHTWEIGHT CELLULAR CONCRETE FILL. LIGHTWEIGHT CELLULAR CONCRETE FILL SHOWN ON CROSS SECTIONS IS FOR INFORMATION ONLY.



0160W28-Sht-XS-RampSW-RW-1001-C.dgn	DESIGNED - NWM / AJP	REVISED - 6/24/2014
USER NAME - mpornik	DRAWN - NWM / AJP	REVISED -
PLDT SCALE - 28.0000' / in.	CHECKED - KAM	REVISED -
PLDT DATE - 6/23/2014	DATE - 6/24/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

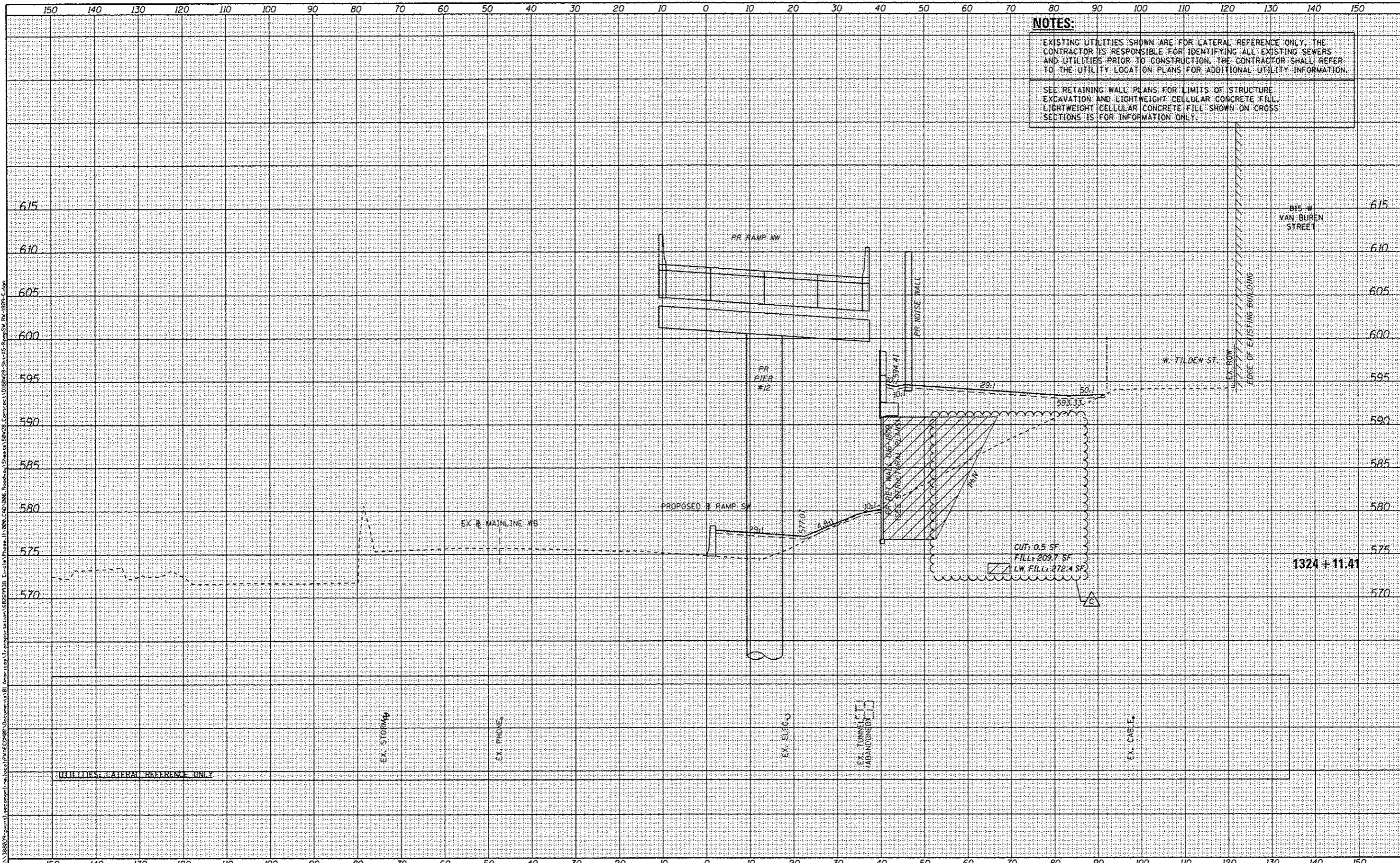
CROSS SECTIONS	
RAMP SW & RETAINING WALL 016-1809	
SCALE: 1/5", 1/10"	SHEET 7 OF 15 SHEETS
STA. 1324+00.00 TO STA. 1324+00.00	

DATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	738
CONTRACT NO. 60W28				
ILLINOIS FED. AID PROJECT				

FILE PATH - P:\11588932\p11588932\11588932.dwg

FINAL SHEET	BY	DATE
SUBMITTED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		

ORIGINAL SHEET	BY	DATE
SUBMITTED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		



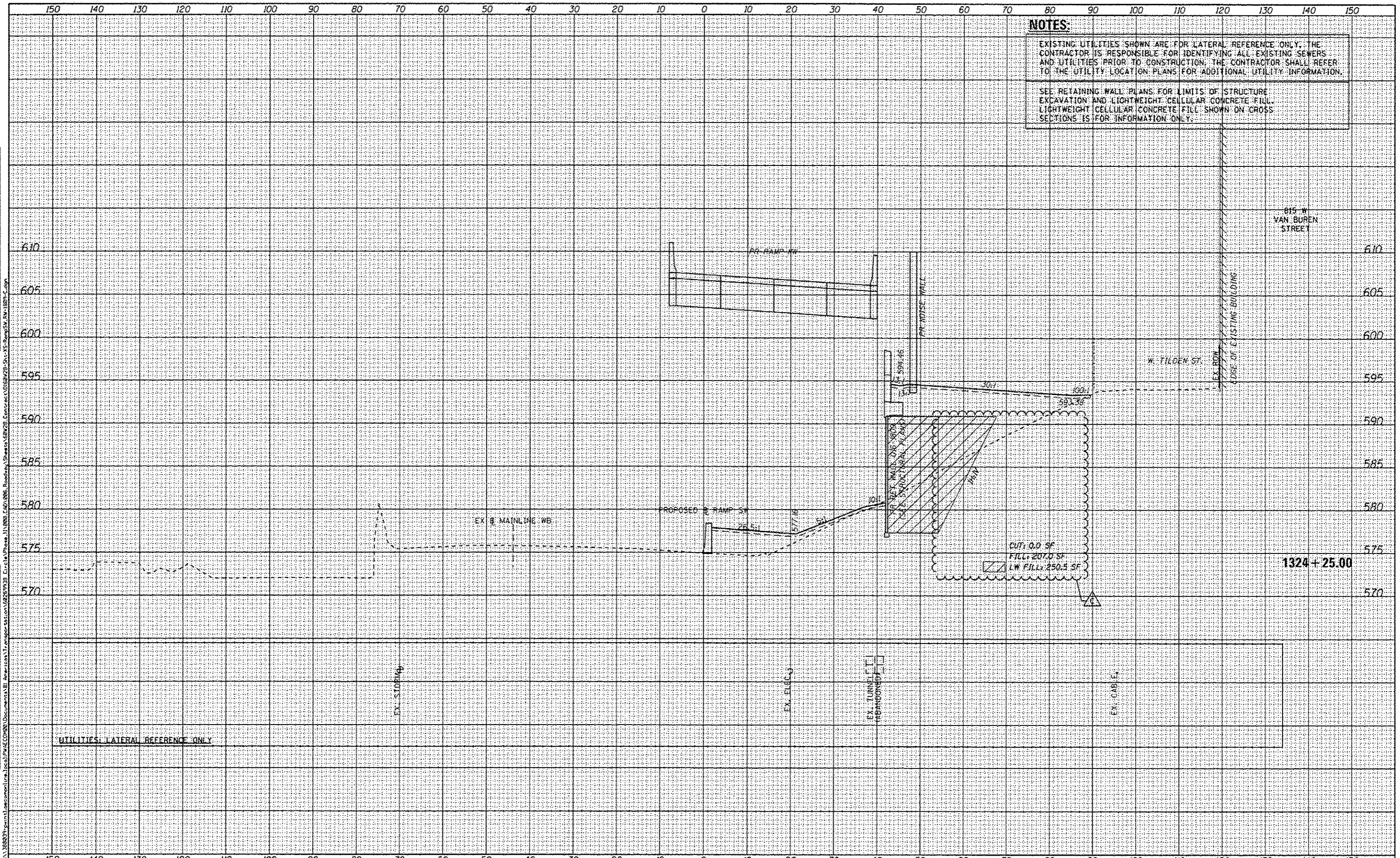
NOTES:
 EXISTING UTILITIES SHOWN ARE FOR LATERAL REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING SEWERS AND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO THE UTILITY LOCATION PLANS FOR ADDITIONAL UTILITY INFORMATION.
 SEE RETAINING WALL PLANS FOR LIMITS OF STRUCTURE EXCAVATION AND LIGHTWEIGHT CELLULAR CONCRETE FILL. LIGHTWEIGHT CELLULAR CONCRETE FILL SHOWN ON CROSS SECTIONS IS FOR INFORMATION ONLY.

AECOM <small>303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-2576 PHONE: (312) 312-7700 FAX: (312) 312-4800</small>	D:\160W28-Sht-X5-RampSW_RW-1009-C.dgn	DESIGNED - NWM / AJP	REVISED - 6/24/2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS RAMP SW & RETAINING WALL 016-1809				F.A.I. RTE. 90/94/290	SECTION 2013-010R	COUNTY COOK	TOTAL SHEETS 747	SHEET NO. 739
	USER NAME + maronik	DRAWN - NWM / AJP	REVISED -		SCALE: 1:5V, 1:10H	SHEET 8 OF 15 SHEETS	STA. 1324+11.41	TO STA. 1324+11.41	CONTRACT NO. 60W28 ILLINOIS FED. AID PROJECT				
	PLOT SCALE + 20.0000 "/ in.	CHECKED - KAM	REVISED -										
	PLOT DATE + 6/23/2014	DATE - 6/24/14	REVISED -										

FILE PATH: P:\160W28-Sht-X5-RampSW_RW-1009-C.dgn

DATE	
BY	
FINAL SURVEY	
NOTED	
NOTE BOOK	
TEMP. AREAS	
AREAS DELETED	

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
NOTE BOOK	
TEMP. AREAS	
AREAS DELETED	



NOTES:

EXISTING UTILITIES SHOWN ARE FOR LATERAL REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING SEWERS AND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO THE UTILITY LOCATION PLANS FOR ADDITIONAL UTILITY INFORMATION.

SEE RETAINING WALL PLANS FOR LIMITS OF STRUCTURE EXCAVATION AND LIGHTWEIGHT CELLULAR CONCRETE FILL. LIGHTWEIGHT CELLULAR CONCRETE FILL SHOWN ON CROSS SECTIONS IS FOR INFORMATION ONLY.



DESIGNED - NWM / AJP	REVISOR - 6/24/2014
USER NAME - naranik	DRAWN - NWM / AJP
PLLOT SCALE - 20,0000' / in.	CHECKED - KAM
PLLOT DATE - 6/23/2014	DATE - 6/24/14
	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

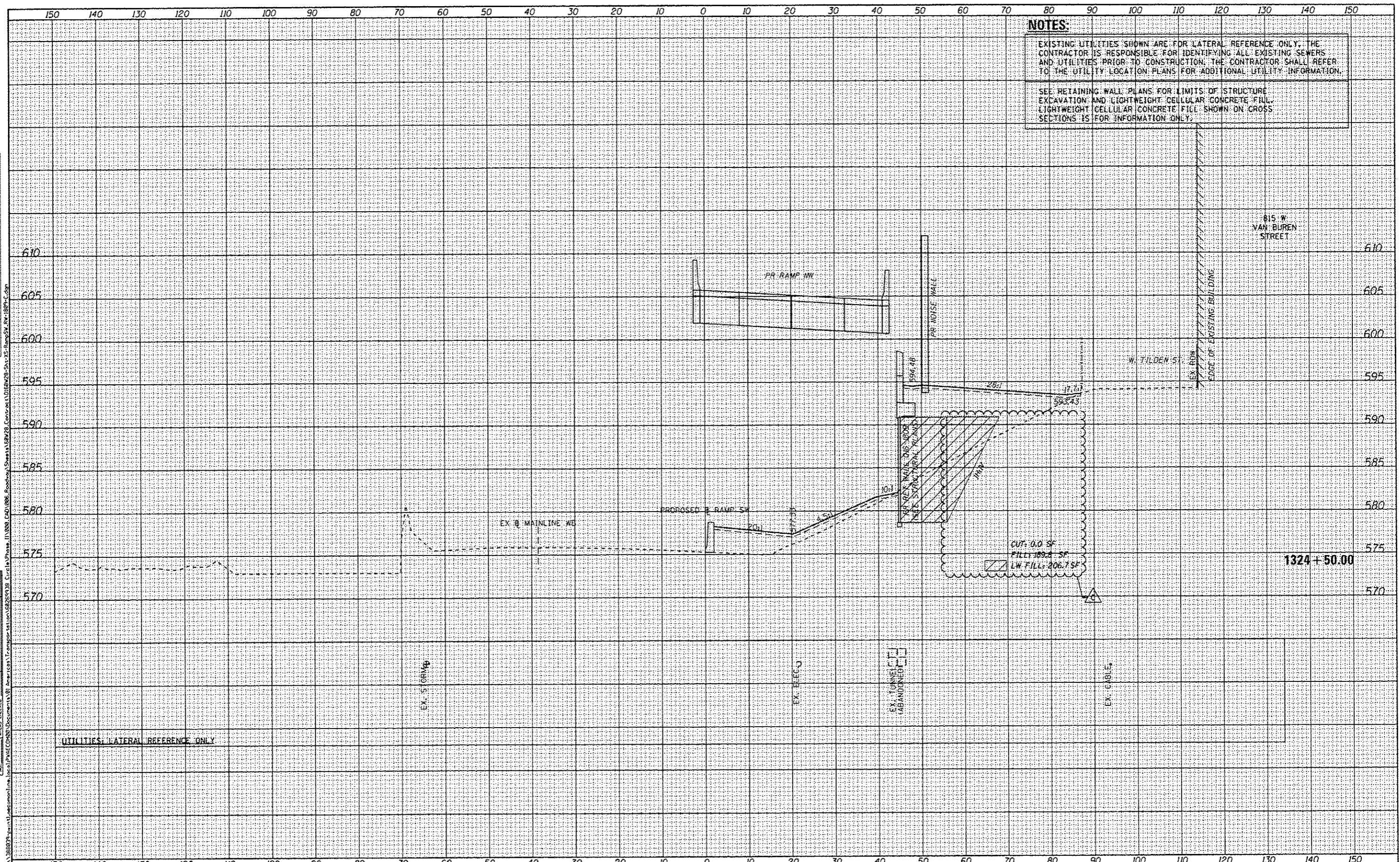
CROSS SECTIONS	
RAMP SW & RETAINING WALL 016-1809	
SCALE: 1:5V, 1:10H	SHEET 9 OF 15 SHEETS
STA. 1324+25.00 TO STA. 1324+25.00	

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	740
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

NOTES:
 EXISTING UTILITIES SHOWN ARE FOR LATERAL REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING SEWERS AND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO THE UTILITY LOCATION PLANS FOR ADDITIONAL UTILITY INFORMATION.
 SEE RETAINING WALL PLANS FOR LIMITS OF STRUCTURE EXCAVATION AND LIGHTWEIGHT CELLULAR CONCRETE FILL. LIGHTWEIGHT CELLULAR CONCRETE FILL SHOWN ON CROSS SECTIONS IS FOR INFORMATION ONLY.

DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	

DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	



UTILITIES: LATERAL REFERENCE ONLY



DESIGNED - NWM / AJP	REVISED - 6/24/2014
DRAWN - NWM / AJP	REVISED -
CHECKED - KAM	REVISED -
DATE - 6/24/14	REVISED -

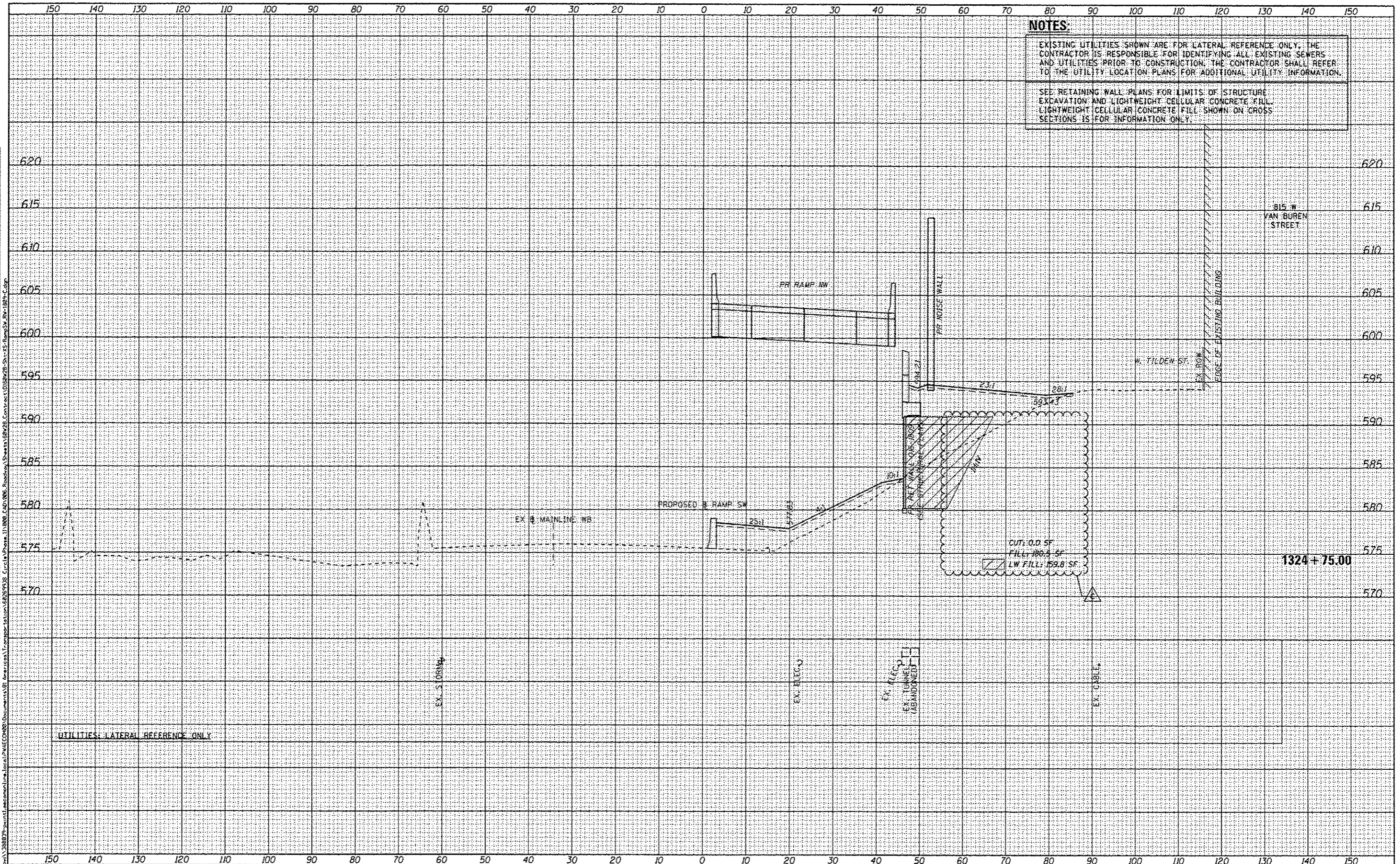
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 RAMP SW & RETAINING WALL 016-1809
 SCALE: 1:5V, 1:10H SHEET 10 OF 15 SHEETS STA. 1324+50.00 TO STA. 1324+50.00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	741
CONTRACT NO. 60W28			ILLINOIS FED. AID PROJECT	

DATE	
BY	
CONVERTED	
PLOTTED	
TEMPLATE	
AREA	
AREAS CHECKED	
NO.	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
CONVERTED	
PLOTTED	
TEMPLATE	
AREA	
AREAS CHECKED	
NO.	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



0160W26-Sht-XS-RampSW, RW-1809-C.dgn	DESIGNED - NWM / AJP	REVISED - 6/24/2014
USER NAME = marank	DRAWN - NWM / AJP	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED - KAM	REVISED -
PLOT DATE = 6/23/2014	DATE = 6/24/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
RAMP SW & RETAINING WALL 016-1809

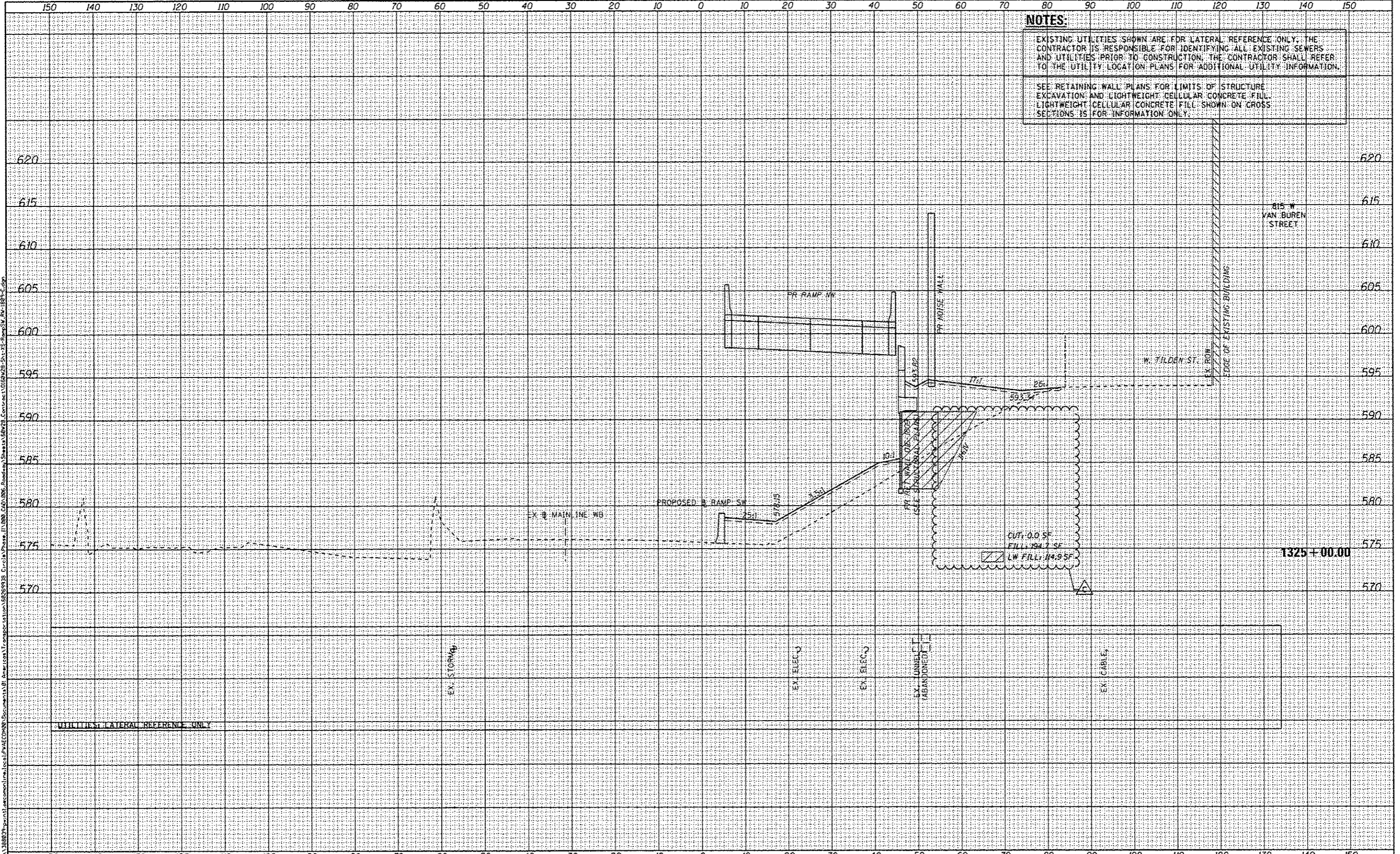
SCALE: 1:5V, 1:10H SHEET 11 OF 15 SHEETS STA. 1324+75.00 TO STA. 1324+75.00

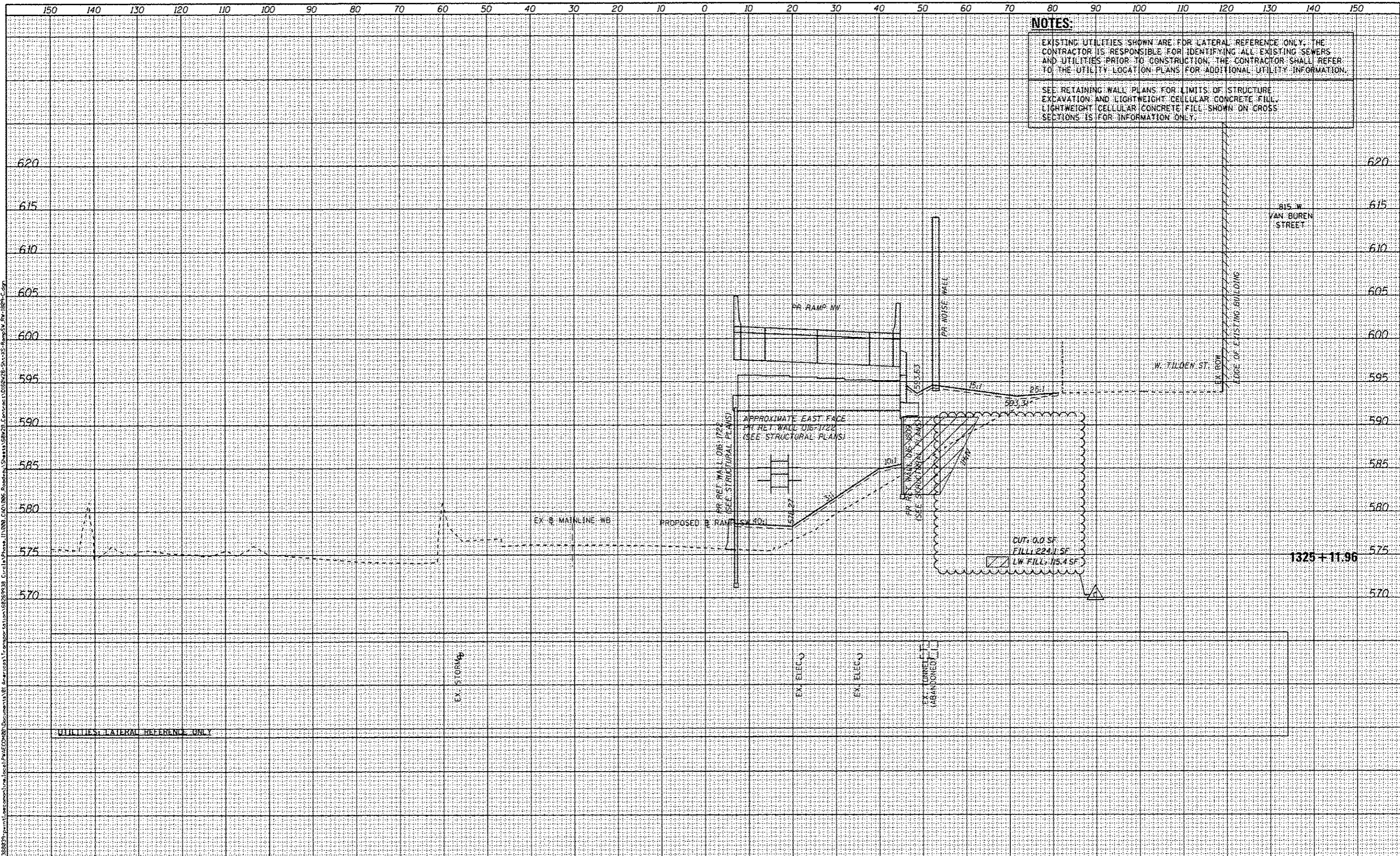
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	742
				CONTRACT NO. 60W28
ILLINOIS FED. AID PROJECT				

NOTES:
 EXISTING UTILITIES SHOWN ARE FOR LATERAL REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING SEWERS AND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO THE UTILITY LOCATION PLANS FOR ADDITIONAL UTILITY INFORMATION.
 SEE RETAINING WALL PLANS FOR LIMITS OF STRUCTURE EXCAVATION AND LIGHTWEIGHT CELLULAR CONCRETE FILL. LIGHTWEIGHT CELLULAR CONCRETE FILL SHOWN ON CROSS SECTIONS IS FOR INFORMATION ONLY.

DATE	
BY	
FINL SHEET	
SPRINT	
PLOTTED	
NOTE BOOK	
TEMP. AREAS	
NO. AREAS CHECKED	

DATE	
BY	
ORIGINAL SHEET	
SPRINT	
PLOTTED	
NOTE BOOK	
TEMP. AREAS	
NO. AREAS CHECKED	





NOTES:

EXISTING UTILITIES SHOWN ARE FOR LATERAL REFERENCE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING ALL EXISTING SEWERS AND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REFER TO THE UTILITY LOCATION PLANS FOR ADDITIONAL UTILITY INFORMATION.

SEE RETAINING WALL PLANS FOR LIMITS OF STRUCTURE EXCAVATION AND LIGHTWEIGHT CELLULAR CONCRETE FILL. LIGHTWEIGHT CELLULAR CONCRETE FILL SHOWN ON CROSS SECTIONS IS FOR INFORMATION ONLY.

DATE	
BY	
STARTED	
FINA	
SUBJECT	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
STARTED	
ORGINA	
SUBJECT	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

<p>303 EAST WACKER DRIVE, SUITE 1400 CHICAGO, IL 60601-3714 PHONE: (312) 375-1100 FAX: (312) 375-6800</p>	USER NAME - mprank PLOT SCALE - 20.0000' / in. PLOT DATE - 6/23/2014	DESIGNED - NWM / AJP DRAWN - NWM / AJP CHECKED - KAM DATE - 6/24/14	REVISED - 6/24/2014 REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS RAMP SW & RETAINING WALL 016-1809	F.A.I. RTE. 90/94/290 SECTION 2013-010R COUNTY COOK CONTRACT NO. 60W2B	TOTAL SHEETS 747 SHEET NO. 744	STA. 1325+11.96 TO STA. 1325+11.96 ILLINOIS FED. AID PROJECT
	SCALE: 1:5V:1:10H SHEET 13 OF 15 SHEETS				STA. 1325+11.96 TO STA. 1325+11.96			
	ILLINOIS FED. AID PROJECT							
	ILLINOIS FED. AID PROJECT							