

SUBSURFACE UTILITY ENGINEERING (S.U.E.)  
 UTILIZED ON THIS PROJECT  
 PROJECT LOCATED IN THE CITY OF AURORA  
 FOR INDEX OF SHEETS SEE SHEET NO.2

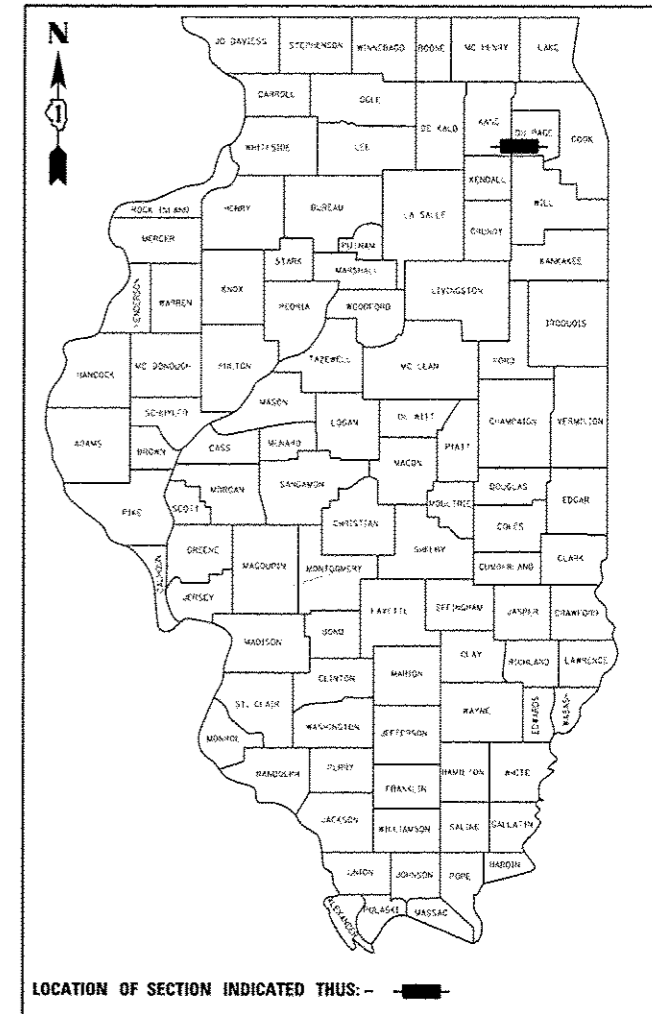
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

**PROPOSED  
 HIGHWAY PLANS**

FAP 311 - US ROUTE 34 AT CN RAILROAD  
 SECTION 2012-0371  
 ACCESS ROAD RECONSTRUCTION  
 DUPAGE COUNTY  
 C-91-475-12

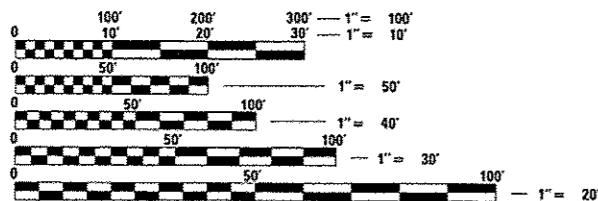
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DUPAGE	45	1
ILLINOIS			CONTRACT NO. 60T83	

D-91-475-12



\*THIS STRUCTURE WAS PREVIOUSLY REVIEWED BY THE BRIDGE OFFICE AS TEMPORARY STRUCTURE NUMBER 022-C002

DESIGN LOADING FOR ACCESS ROAD:  
 HL-93 AND COMED OVERLOAD VEHICLE

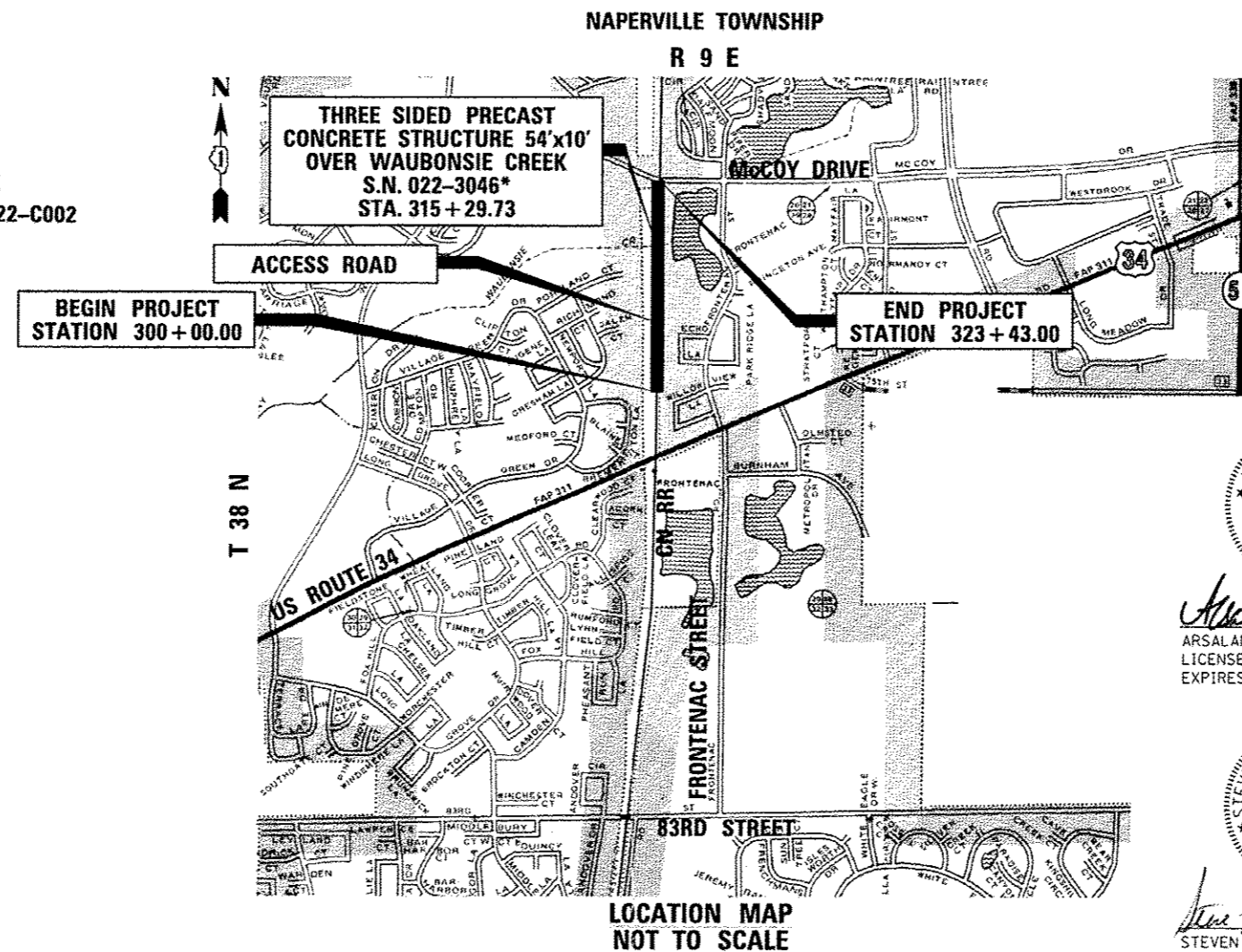


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

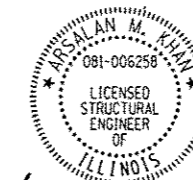
J.U.L.I.E.  
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
 1-800-892-0123  
 OR 811

PROJECT MANAGER - BRIAN KUTTAB, P.E.  
 PROJECT ENGINEER - ADDIS ABEBAW

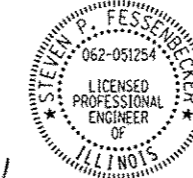
CONTRACT NO. 60T83



GROSS & NET LENGTH = 2,343 FT. = 0.44 MILE (ACCESS ROAD)



*Arsalan Khan 5-7-13*  
 ARSALAN M. KHAN, S.E.  
 LICENSE NO.: 081-006258  
 EXPIRES: NOVEMBER 30, 2014



*Steve Fessenbecker 5-7-13*  
 STEVEN P. FESSENBECKER, P.E.  
 LICENSE NO.: 062-051254  
 EXPIRES: NOVEMBER 30, 2013

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED *5/15* 2013

DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER  
*John D. Baranzoli PE*  
 JOHN D. BARANZOLI, P.E.  
 LICENSE NO.: 081-006258  
 EXPIRES: NOVEMBER 30, 2014

DIRECTOR OF HIGHWAYS, CHIEF ENGINEER  
*Omair Osman PE*  
 OMAIR OSMAN, P.E.  
 LICENSE NO.: 081-006258  
 EXPIRES: NOVEMBER 30, 2014

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 OF THE STATE OF ILLINOIS

**URS** 100 S. WACKER DR., SUITE 500 TEL (312)-939-1000  
 CHICAGO IL, 60606 FAX (312)-939-4198

IDOT HIGHWAY STANDARDS

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 HIGHWAY STANDARDS

NUMBER	DESCRIPTION
000001-00	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606401-01	PAVED DITCH
701606-08	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701801-05	LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-02	TRAFFIC CONTROL DEVICES
601101-01	

FILE NAME = D:\1027\_10288267\_US\_34.ctb Plot:\Drawings\Reference\ControlRoadway\General\060813D-Shr-bush.dgn



USER NAME = URS	DESIGNED - MB	REVISED -
PL01 SCALE = 50,000 1"=50'	DRAWN - KJB	REVISED -
PL01 DATE = 5/13/2013	CHECKED - SPF	REVISED -
	DATE - 5/13/2013	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND HIGHWAY STANDARDS

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DUPAGE	45	2
CONTRACT NO. 60T83			Rev.	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF AURORA.

BENCHMARKS FOR THE PROJECT ARE DESCRIBED IN THE PLANS. ALL BEARINGS AND COORDINATES REFERENCED IN THE PLAN DRAWINGS AND ALL CONTROL COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83(2007). ALL ELEVATIONS ARE BASED ON NATIONAL GEODESIC VERTICAL DATUM 1929 (NGVD29).

THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO FULL SIZE PLANS AND NOT TO THE REDUCED SIZE PLANS. REDUCED SIZED PLANS CAN BE PRINTED TO SCALE FOR USE IN THE FIELD.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SWEEPING AND CLEANING STREETS OF ANY DEBRIS AND MATERIAL THAT HAS ACCUMULATED AS A RESULT OF THE CONSTRUCTION ACTIVITY. A MECHANICAL SWEEPER, MECHANICALLY DRIVEN AND HANDWORK WITH A SHOVEL AND BROOM SHALL BE UTILIZED TO PROVIDE A CLEAN STREET FOR THE MOTORING PUBLIC. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.

THE LOCATIONS OF EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED ON INFORMATION OBTAINED FROM THE LOCAL AGENCIES, OWNERS, AND FIELD SURVEYS. THE ACCURACY AND COMPLETENESS OF SAID INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTENCE, NATURE AND EXACT LOCATIONS OF ALL UTILITY LINES AND APPURTENANCES WITHIN THE LIMITS OF THE IMPROVEMENTS.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. METHODS USED BY THE CONTRACTOR SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER. THE COST OF MAINTAINING DRAINAGE FLOWS SHALL BE INCLUDED IN THE CONTRACT.

AGGREGATE SUBGRADE IMPROVEMENT AND "GEOTECHNICAL FABRIC FOR GROUND STABILIZATION" HAVE BEEN PROVIDED FOR IN THE CONTRACT QUANTITIES. THE ACTUAL NEED FOR THE REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT AND GEOTECHNICAL FABRIC WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHALL BE TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITIES SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

10-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 ITEM OF WORK SPECIFIED.

THE CONTRACTOR SHALL MAKE ALL FULL DEPTH SAW CUTS REQUIRED FOR THE REMOVAL OF PAVEMENTS, CONCRETE CURB AND GUTTERS, SIDEWALKS AND DRIVEWAYS AS SPECIFIED, OR AS DIRECTED BY THE ENGINEER. THE COST SHALL BE CONSIDERED INCLUDED IN THE COST FOR REMOVAL OF THE SPECIFIED ITEM IN THE CONTRACT.

WARNING SIGNS (OVERHEAD ELECTRIC) SHALL BE PLACED AT LOCATIONS OF OVERHEAD ELECTRIC LINES CROSSING THE ROADWAY. SIGNS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEMS OF WORK BEING PERFORMED.

IN COMPLIANCE WITH THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (I.E.P.A.) FOR A CONSTRUCTION PROJECT WHICH DISTURBS ONE ACRE OR MORE TOTAL LAND AREA, THE CONTRACTOR SHALL FOLLOW THE STORM WATER POLLUTION PREVENTION PLAN AS CONTAINED IN THE CONTRACT DOCUMENTS.

THE DEPARTMENT HAS DETERMINED THAT IN STREAM WORK IS NOT REQUIRED FOR THE WORK SPECIFIED IN THIS CONTRACT. THE DEPARTMENT HAS NOT OBTAINED A 404 PERMIT. IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING AN USACE 404 PERMIT IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER USACE PERMITS.

NO WORK WILL BE PERFORMED WITHIN THE LIMITS OF THE EXISTING CONCRETE CHANNEL. THE CONTRACTOR WILL NOT BE ALLOWED TO CROSS WAUBONSIE CREEK WITH ANY VEHICLES OR EQUIPMENT. THE COST FOR ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISION 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.

DURING CONSTRUCTION OPERATIONS, WHENEVER LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIAL CREATED AS A RESULT THERE OF.

THE CONTRACTOR SHALL ATTACH AN ALUMINUM SIGN WITH THE FOLLOWING TEXT: PROTECTED WETLAND NO INTRUSION. THE SIGN(S) SHALL BE ATTACHED TO THE STAKES BY A METHOD APPROVED BY THE ENGINEER. THE SIGN(S) WILL BE PROVIDED BY THE DEPARTMENT AND SHALL BE PICKED UP BY THE CONTRACTOR FROM THE DISTRICT ONE ROADSIDE DEVELOPMENT ARCHITECT IN SCHAMBURG, ILLINOIS. SCHEDULING THE PICKUP OF THE SIGNS CAN BE ARRANGED BY CONTACTING THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT AT (847)705-4171. WHEN WORK HAS BEEN COMPLETED, THE SIGN SHALL BE RETURNED TO THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT. THE COST OF PICKING UP, ATTACHING THE SIGNS TO THE TEMPORARY FENCE STAKES AND RETURNING THE SIGNS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY FENCE.

**UTILITY COORDINATION**

IF THE CONTRACTOR DEEMS IT NECESSARY TO DRIVE OR OPERATE EQUIPMENT OR VEHICLES OVER OR IMMEDIATELY ADJACENT TO THE ENBRIDGE PIPELINE, THE ONEOK PIPELINE, OR THE NICOR GAS MAIN, THE CONTRACTOR WILL BE REQUIRED TO DESIGN AND INSTALL TEMPORARY MATS OVER THE PIPELINE. THE DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL BY THE AFFECTED UTILITY. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEMS OF WORK BEING PERFORMED.

**ENBRIDGE**

ANY EXCAVATION WITHIN 10 FEET OF THE ENBRIDGE PIPELINE WILL REQUIRE PRIOR NOTIFICATION OF ENBRIDGE SO THE UTILITY CAN MAKE ARRANGEMENTS TO PROVIDE AN ONSITE INSPECTOR WHEN THAT WORK IS BEING PERFORMED.

ANY EXCAVATION WITHIN 2 FEET OF THE ENBRIDGE PIPELINE WILL REQUIRE NON-MECHANICAL EXCAVATION. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEMS OF WORK BEING PERFORMED.

**ONEOK**

THE CONTRACTOR SHALL CONTACT THE LOCAL SUPERVISOR FOR ONEOK, JEFF SCHAEFER AT 630-257-5404 EXTENSION 2528 BEFORE PERFORMING ANY CONSTRUCTION NEAR THE ONEOK PIPELINE.

**NICOR**

THE CONTRACTOR SHALL CONTACT NICOR BEFORE PERFORMING ANY CONSTRUCTION NEAR THE NICOR GAS MAIN.

**COMED**

THERE ARE EXISTING 138 KV AND 345 KV LINES WITHIN THE PROJECT LIMITS; THE CONTRACTOR NEEDS TO BE AWARE THAT NO OUTAGE OR PROTECTION CAN BE PROVIDED TO THESE FACILITIES WITH THE ONE EXCEPTION NOTED BELOW. THE PLANS INCLUDE PAY ITEMS FOR MICRO PILES FOR THIS REASON, PER COMED AND OSHA REQUIREMENTS, WITHOUT THE ON-SITE PRESENCE OF A REPRESENTATIVE OF COMED, ALL CONTRACT ACTIVITIES MUST STAY 30 FEET IN ANY DIRECTION FROM THE 345 KV LINES AND ANY COMED CONDUCTORS AND 20 FEET FROM THE 138 KV LINES. WITH ON-SITE COMED SUPERVISION, ALL CONTRACT ACTIVITIES MUST STAY 20 FEET IN ANY DIRECTION FROM THE 345 KV LINES AND ANY COMED CONDUCTORS AND 13 FEET FROM THE 138 KV LINES..

A ONE-TIME OUTAGE OF ONE CIRCUIT ONLY FOR EACH OF THE 138 KV AND 345 KV TRANSMISSION LINE SYSTEMS MAY BE ALLOWED FOR LIFT IN OF THE PRECAST CONCRETE UNITS OF THE STRUCTURE OVER WAUBONSIE CREEK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND ARRANGING IN ADVANCE WITH COMED WHETHER AND WHEN THESE OUTAGES CAN BE PROVIDED. OUTAGES OF FIVE DAYS OR LESS MUST BE REQUESTED AT LEAST TEN (10) WEEKS IN ADVANCE. AN OUTAGE BETWEEN FIVE AND 30 DAYS LONG MUST BE REQUESTED SEVEN MONTHS IN ADVANCE. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN WORKING AROUND THESE FACILITIES AND ANY OTHER UNDERGROUND FACILITIES AND SHALL INSURE CONFLICTS WITH CRANES AND OTHER EQUIPMENT ARE AVOIDED ENTIRELY. THE COST TO COMPLY WITH THESE REQUIREMENTS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PRECAST ARCH STRUCTURE PAY ITEMS.

ACCESS TO COMED FACILITIES IS TO BE MAINTAINED AT ALL TIMES ALONG EXISTING ACCESS ROAD UNTIL THE NEW ACCESS ROAD IS COMPLETED AND ACCEPTED.

THE CONTRACTOR SHALL PROVIDE COMED WITH THREE HARD COPIES AND ONE CD OF THE FINAL AS BUILT DRAWINGS. THIS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEMS OF WORK BEING PERFORMED.

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PLOT DATE: 5/16/2013	CHECKED: SPF	REVISED:
	DATE: 5/16/2013	REVISED:

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES**

SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 311	SECTION 2012-0371	COUNTY OUPAGE	TOTAL SHEETS 45	SHEET NO. 3
CONTRACT NO. 60T83				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

100% STATE  
CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN	
				A	B
				0001 URBAN	0008 URBAN
20101000	TEMPORARY FENCE	FOOT	4218	4218	
20200100	EARTH EXCAVATION	CU YD	1595	1595	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	240	240	
20400800	FURNISHED EXCAVATION	CU YD	1360	1360	
20800150	TRENCH BACKFILL	CU YD	5	5	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	647	647	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	12681	12681	
25000300	SEEDING, CLASS 3	ACRE	2.75	2.75	
25100115	MULCH, METHOD 2	ACRE	2.75	2.75	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	786	786	
28000305	TEMPORARY DITCH CHECKS	FOOT	80	80	
28000400	PERIMETER EROSION BARRIER	FOOT	400	400	
28100105	STONE RIPRAP, CLASS A3	SO YD	29	29	
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	214	214	

\* SPECIALTY ITEM

LEGEND

- A ROADWAY - 100% STATE
- B CONCRETE ARCH SN 022-3046 - 100% STATE

FILE NAME: C:\1001\20130508\06\_04.ctb PLOT DATE: 5/13/2013



USER NAME: JDR  
 DESIGNED: MB  
 DRAWN: KJB  
 CHECKED: SPF  
 DATE: 5/13/2013

REVISED:  
 REVISED:  
 REVISED:

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371		45	4
CONTRACT NO. 60183			ILLINOIS FED. AID PROJECT	



100% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				A	B
			URBAN		
			0001 URBAN	0008 URBAN	
542A0226	PIPE CULVERTS, CLASS A, TYPE 1 21"	FOOT	20	20	
54213666	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 21"	EACH	2	2	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	54		54
60616150	PAVED DITCH, TYPE A-60	FOOT	274	274	
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	8	8	
67100100	MOBILIZATION	L SUM	1	1	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
Z0013300	CONCRETE REMOVAL (SPECIAL)	SO YD	16	16	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	66		66
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SO FT	855		855
X0321963	MICRO-PILES	EACH	44		44
X0323433	MICROPILE PROOF LOAD TEST	EACH	1		1

\* SPECIALTY ITEM

LEGEND

- A ROADWAY - 100% STATE
- B CONCRETE ARCH SN 022-3046 - 100% STATE

FILE NAME: I:\PROJECTS\2012\60TB83\US 34 - CH 612\Drawings\Advance Const\Roadway\General\060TB83-SUMMARY.dwg



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DRAWN	KJG	REVISED	
CHECKED	SPF	REVISED	
DATE	5/13/2013	REVISED	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DUPAGE	45	6
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60TB3	

100% STATE

CONSTRUCTION CODE

URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				A	B
				0001 URBAN	0008 URBAN
X2511630	EROSION CONTROL BLANKET (SPECIAL)	SO YD	12681	12681	
X4400220	CURB REMOVAL AND REPLACEMENT	FOOT	40	40	
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	71		71
Z0038168	THREE-SIDED PRECAST CONCRETE STRUCTURES 54' X 10', SPECIAL	FOOT	18		18
⊙ Z0076604	TRAINEES-TRAINING PROGRAM GRADUATE	HOUR	500	500	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1000	1000	
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1	⚠
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	

LEGEND

- A ROADWAY - 100% STATE
- B CONCRETE ARCH SN 022-3046 - 100% STATE

⚠ Rev.

Rev.

\* SPECIALTY ITEM ⊙0042



USER NAME: MKG  
 DESIGNED: MD  
 DRAWN: KJB  
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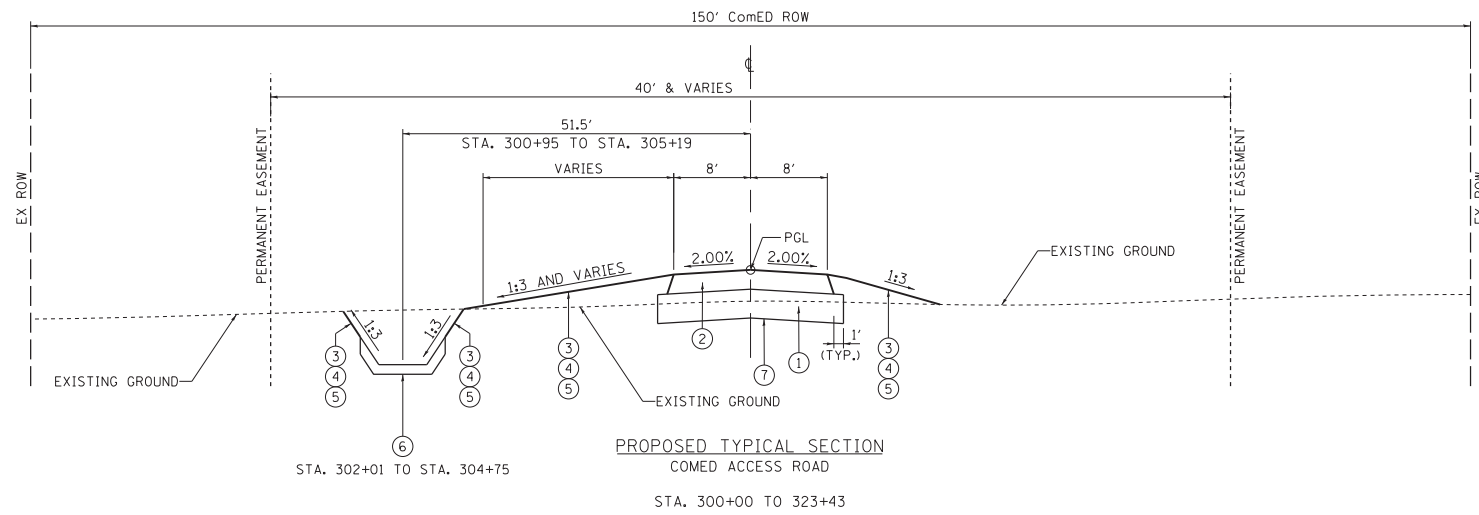
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

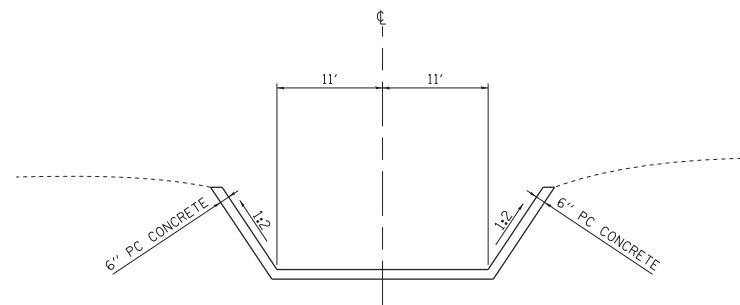
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DUPAGE	45	7
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60T83	

FILE NAME: C:\DRIVE\2012\0371\07\_34\_13\CU\_Plan\66900530\_Soil\_Disposal\_Analysis\_Concrete\_Arch\_Sn\_022-3046.dgn



**PROPOSED LEGEND**

- ① AGGREGATE SUBGRADE IMPROVEMENT 12"
- ② AGGREGATE BASE COURSE, TYPE B 8"
- ③ SEEDING, CLASS 3
- ④ TOPSOIL FURNISH AND PLACE, 4"
- ⑤ EROSION CONTROL BLANKET (SPECIAL)
- ⑥ PAVED DITCH, TYPE A-60
- ⑦ GEOTECHNICAL FABRIC - AS DIRECTED



FILE NAME = Q:\1\DOT\_25368367\_US\_34.ctb CN Ph2\Drawings-Advance Cont-\Roadway\Typical\Section\0160T83-Sht-Typical.dgn



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	DRAWN - KJB	REVISED -
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PLOT DATE = 5/13/2013	DATE - 5/13/2013	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PROPOSED TYPICAL SECTIONS**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DUPAGE	45	8
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60T83	



**SCHEDULE OF QUANTITIES**

PRECAST REINFORCED CONCRETE FLARED END SECTIONS 21"		
STA	OFFSET	EACH
301+69	51.5 LT	1
302+01	51.5 LT	1
	TOTAL	2

AGGREGATE SUBGRADE IMPROVEMENT 12"		
FROM STA	TO STA	SQ YD
300+00	323+17	4,848
	TOTAL	4,848

SEEDING, CLASS 3		
FROM STA	TO STA	ACRE
300+00	323+43	2.75
	TOTAL	2.75

AGGREGATE BASE COURSE, TYPE B 8"		
FROM STA	TO STA	SQ YD
300+00	323+17	4,318
	TOTAL	4,318

PIPE CULVERTS, CLASS A, TYPE 1 21"		
FROM STA.	TO STA.	FOOT
301+75	301+95	20
	TOTAL	20

SIDEWALK REMOVAL		
FROM STA.	TO STA.	SQ FT
323+16	323+26	547
	TOTAL	547

CONCRETE REMOVAL (SPECIAL)		
FROM STA.	TO STA.	SQ YD
314+92	315+07	16
	TOTAL	16

PIPE CULVERT REMOVAL		
FROM STA	TO STA	FOOT
301+69	302+01	31
	TOTAL	31

CURB REMOVAL AND REPLACEMENT	
LOCATION	FOOT
AT McCOY DRIVE	40
TOTAL	40

PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	
LOCATION	SQ FT
AT McCOY	399
TOTAL	399

PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	
LOCATION	SQ YD
AT McCOY DRIVE	52
TOTAL	52

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	DRAWN - KJB	REVISED -
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PLOT DATE = 5/13/2013	DATE - 5/13/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULE OF QUANTITIES</b>			
SCALE: NTS	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DUPAGE	45	9
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60T83	

# EARTHWORK SCHEDULE

COMED ACCESS ROAD					
LOCATION		EARTH EXCAVATION ( CUT )	EXCAVATION TO BE USED IN EMBANKMENT ( CUT ) *	EMBANKMENT ( FILL )	EARTHWORK BALANCE, WASTE( + ) OR SHORTAGE( - )
FROM	TO	CU. YD.	CU. YD.	CU. YD.	CU. YD.
300+00.00	300+50.00	41.0	34.9	0.0	34.9
300+50.00	301+00.00	44.0	37.4	22.4	15.0
301+00.00	301+50.00	55.9	47.5	74.5	-27.0
301+50.00	302+00.00	58.7	49.9	106.7	-56.8
302+00.00	302+50.00	91.9	78.1	116.7	-38.6
302+50.00	303+00.00	129.4	109.9	110.9	-1.0
303+00.00	303+50.00	147.5	125.4	108.2	17.1
303+50.00	304+00.00	148.1	125.8	103.7	22.1
304+00.00	304+50.00	160.5	136.4	86.9	49.5
304+50.00	305+00.00	90.9	77.3	82.1	-4.8
305+00.00	305+50.00	0.6	0.5	95.0	-94.5
305+50.00	306+00.00	0.6	0.5	107.0	-106.6
306+00.00	306+50.00	0.6	0.5	90.4	-89.9
306+50.00	307+00.00	0.6	0.6	57.2	-56.7
307+00.00	307+50.00	0.8	0.7	25.6	-24.8
307+50.00	308+00.00	2.8	2.4	11.0	-8.7
308+00.00	308+50.00	12.4	10.5	6.0	4.5
308+50.00	309+00.00	23.0	19.5	3.9	15.6
309+00.00	309+50.00	26.3	22.4	3.3	19.0
309+50.00	310+00.00	23.8	20.2	3.3	16.9
310+00.00	310+50.00	21.9	18.7	2.8	15.9
310+50.00	311+00.00	23.6	20.1	2.1	17.9
311+00.00	311+50.00	29.8	25.3	1.1	24.2
311+50.00	312+00.00	38.5	32.7	0.0	32.7
312+00.00	312+50.00	29.4	25.0	1.8	23.3
312+50.00	313+00.00	9.0	7.6	30.8	-23.2
313+00.00	313+50.00	0.6	0.5	100.6	-100.2
313+50.00	314+00.00	0.6	0.5	184.0	-183.5
314+00.00	314+50.00	0.6	0.5	264.2	-263.7
314+50.00	315+00.00	0.3	0.2	237.2	-237.0
315+00.00	315+50.00	0.0	0.0	0.0	0.0
315+50.00	316+00.00	0.4	0.3	240.4	-240.1
316+00.00	316+50.00	0.6	0.6	243.2	-242.7
316+50.00	317+00.00	0.6	0.5	125.4	-124.9
317+00.00	317+50.00	1.5	1.3	42.5	-41.2
317+50.00	318+00.00	9.4	8.0	7.7	0.3
318+00.00	318+50.00	20.3	17.2	3.2	14.0
318+50.00	319+00.00	29.0	24.6	1.8	22.9
319+00.00	319+50.00	36.6	31.1	0.7	30.3
319+50.00	320+00.00	40.1	34.1	0.0	34.1
320+00.00	320+50.00	37.6	32.0	0.7	31.2
320+50.00	321+00.00	28.8	24.5	2.3	22.2
321+00.00	321+50.00	22.1	18.8	3.8	15.0
321+50.00	322+00.00	28.2	24.0	2.5	21.5
322+00.00	322+50.00	49.4	41.9	0.3	41.7
322+50.00	323+00.00	77.0	65.5	0.0	65.5
<b>TOTAL</b>		1,595.0	1,355.8	2,714.1	-1,358.3

\* ADJUSTED FOR SHRINKAGE ( 15% )

COMED ACCESS ROAD SUMMARY	
DESCRIPTION	QUANTITY
EARTH EXCAVATION	1,595
FURNISHED EXCAVATION	1,360

FILE NAME = Q:\DOT\_25368367\_US\_34.ctb CN Ph2\Drawings\Advance Contr\Roadway\General\DL160T83-Sht-Sched\_2.dgn



USER NAME = URS	DESIGNED - MB	REVISED -
	DRAWN - KJB	REVISED -
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PLOT DATE = 5/13/2013	DATE - 5/13/2013	REVISED -

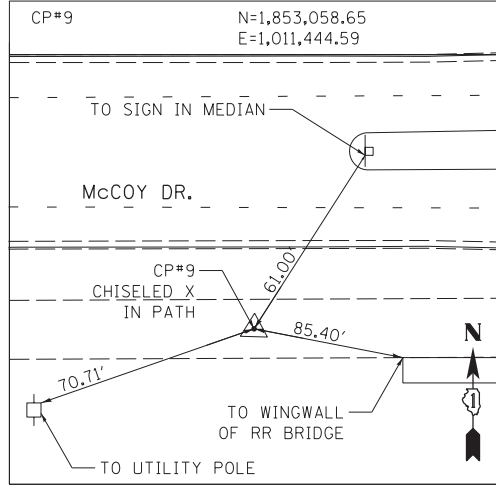
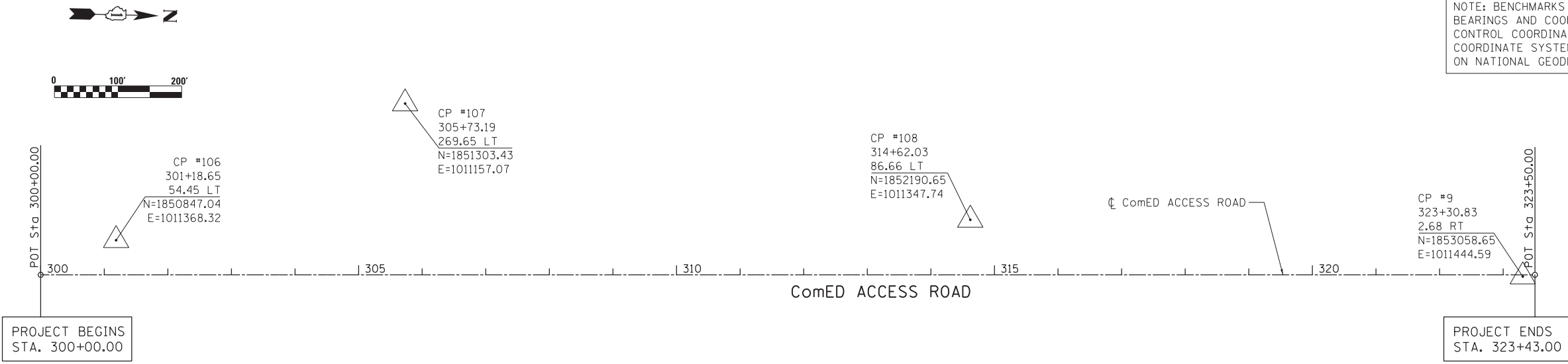
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

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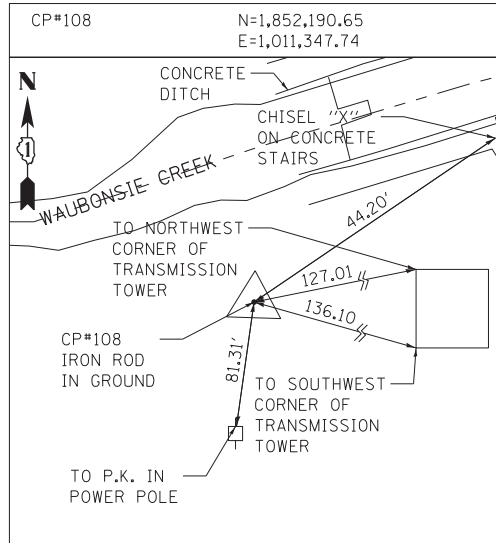
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DUPAGE	45	10
CONTRACT NO. 60T83				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

NOTE: BENCHMARKS FOR THE PROJECT ARE DESCRIBED IN THE PLANS. ALL BEARINGS AND COORDINATES REFERENCED IN THE PLAN DRAWINGS AND ALL CONTROL COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83(2007). ALL ELEVATIONS ARE BASED ON NATIONAL GEODESIC VERTICAL DATUM 1929 (NGVD29).



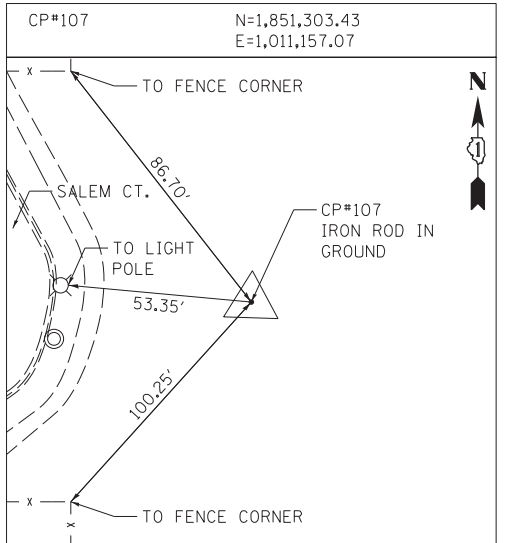
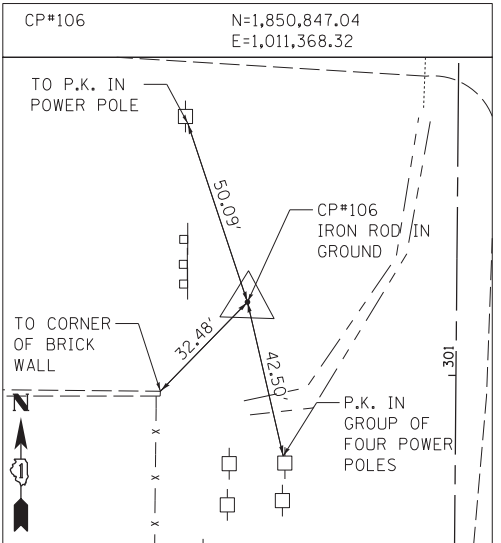
NA 30001 DUPAGE COUNTY GEOGRAPHIC SURVEY MONUMENT

To reach the station from the junction of Ill. Route 59 and U.S. Route 34 (Ogden Av.), go north on Ill. Rt. 59 0.20 mile to Mc Coy Dr.. Turn left and go west on Mc Coy Dr. 1.95 miles to Eola Rd.. Turn left and go south on Eola Rd. 0.50 mile to the intersection with Waubonsie Creek. The station is at the southwest corner of said intersection. A brass disk monument established in concrete headwall for Waubonsie Creek along the west line of Eola Rd. stamped Du Page County Maps and Plats.



CONSTRUCTION LAYOUT:  
ComED ACCESS ROAD

STATION	NORTHING	EASTING	STATION	NORTHING	EASTING
300+00.00	1,850,727.93	1,011,421.74	313+00.00	1,852,027.88	1,011,432.99
301+00.00	1,850,827.92	1,011,422.60	314+00.00	1,852,127.87	1,011,433.86
302+00.00	1,850,927.92	1,011,423.47	315+00.00	1,852,227.87	1,011,434.72
303+00.00	1,851,027.91	1,011,424.34	316+00.00	1,852,327.87	1,011,435.59
304+00.00	1,851,127.91	1,011,425.20	317+00.00	1,852,427.86	1,011,436.45
305+00.00	1,851,227.91	1,011,426.07	318+00.00	1,852,527.86	1,011,437.32
306+00.00	1,851,327.90	1,011,426.93	319+00.00	1,852,627.85	1,011,438.18
307+00.00	1,851,427.90	1,011,427.80	320+00.00	1,852,727.85	1,011,439.05
308+00.00	1,851,527.90	1,011,428.66	321+00.00	1,852,827.85	1,011,439.91
309+00.00	1,851,627.89	1,011,429.53	322+00.00	1,852,927.84	1,011,440.78
310+00.00	1,851,727.89	1,011,430.39	323+00.00	1,853,027.84	1,011,441.65
311+00.00	1,851,827.88	1,011,431.26	323+50.00	1,853,077.84	1,011,442.08
312+00.00	1,851,927.88	1,011,432.13			



PROJECT BENCHMARK ELEVATIONS  
DATUM: N.G.V.D. OF 1929

NO.	STATION OFFSET	COORDINATES	DESCRIPTION	ELEV.
NA 30001	N/A	N/A	BRASS DISK MONUMENT ESTABLISHED IN CONCRETE HEADWALL OF WAUBONSIE CREEK ALONG THE WEST LINE OF EOLA RD. (DUPAGE COUNTY MONUMENT)	679.06
CP#9	323+30.83 2.68 RT	N=1,853,058.65 E=1,011,444.59	CHISELED X IN PATH BY COMED EASEMENT ENTRANCE OFF MCCOY DR.	684.10
CP#106	301+18.65 54.45 LT	N=1,850,847.04 E=1,011,368.32	IRON ROD IN GROUND NORTHEAST OF COMED SUBSTATION	705.07
CP#107	305+73.19 269.65 LT	N=1,851,303.43 E=1,011,157.07	IRON ROD IN GROUND NEAR END OF SALEM CT. CULDESAC	697.57
CP#108	314+62.03 86.66 LT	N=1,852,190.65 E=1,011,347.74	IRON ROD IN GROUND SOUTH OF WAUBONSIE CREEK CONCRETE DITCH	682.15



USER NAME = URS	DESIGNED - MB	REVISED -
	DRAWN - KJB	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - SPF	REVISED -
PLOT DATE = 5/13/2013	DATE - 5/13/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES & BENCHMARKS

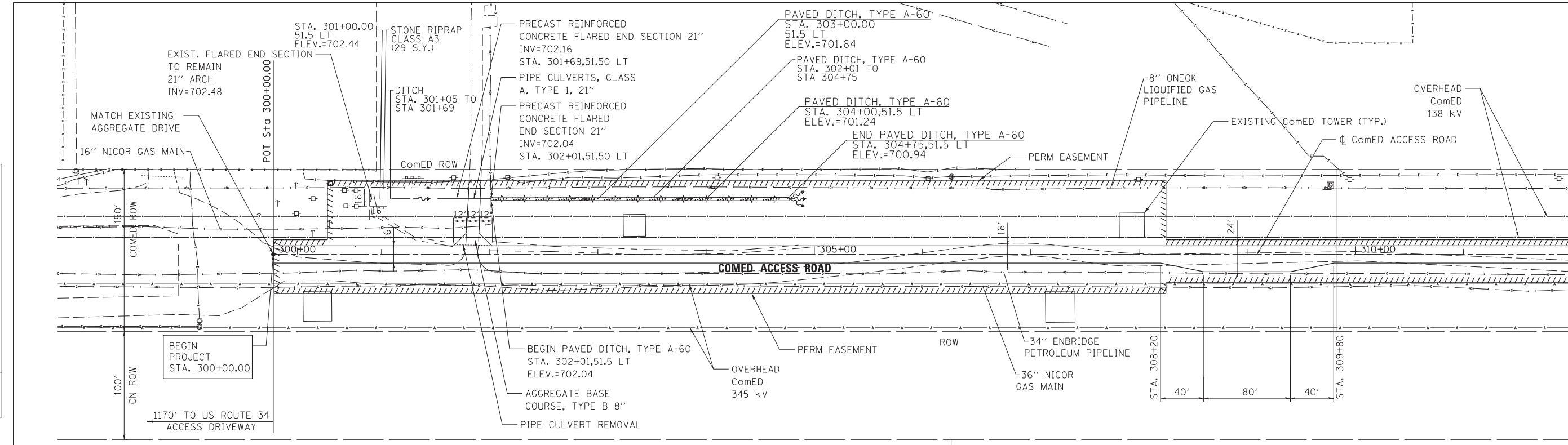
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DUPAGE	45	11
CONTRACT NO. 60T83				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

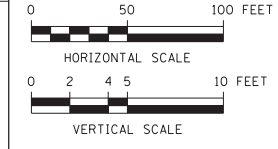
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	PLOTTED	
	CHECKED	
	ALIGNED	
	FILED	
NOTE BOOK NO.	CARD FILE NAME	

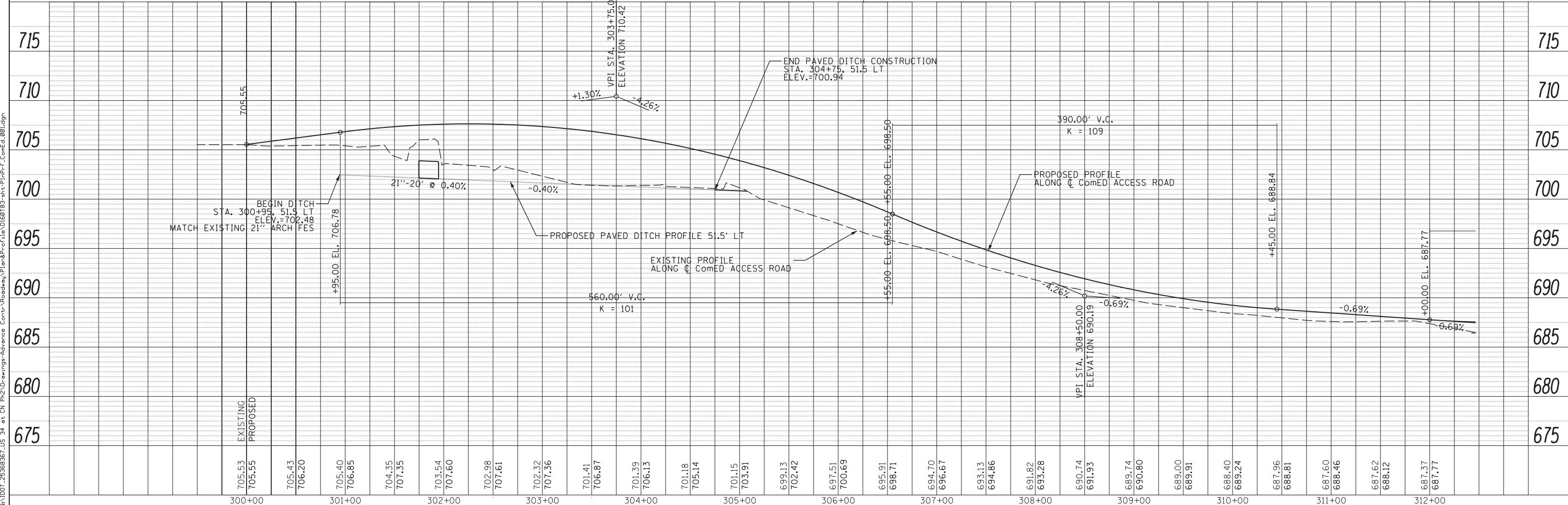
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	PLOTTED	
	CHECKED	
	GRADES	
	STRUCTURE	
	NOTATIONS	
	CHKD	
NO.		



MATCH LINE STA. 312 + 00



**EXISTING AND PROPOSED PLAN AND PROFILE**



USER NAME = URS	DESIGNED - MB	REVISED -
	DRAWN - KJB	REVISED -
PLOT SCALE = 50.0000' / in.	CHECKED - SPF	REVISED -
PLOT DATE = 5/13/2013	DATE - 5/13/2013	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ComEd ACCESS ROAD PLAN & PROFILE**  
SCALE: 50 SHEET NO. 1 OF 2 SHEETS STA. 300+00 TO STA. 312+00

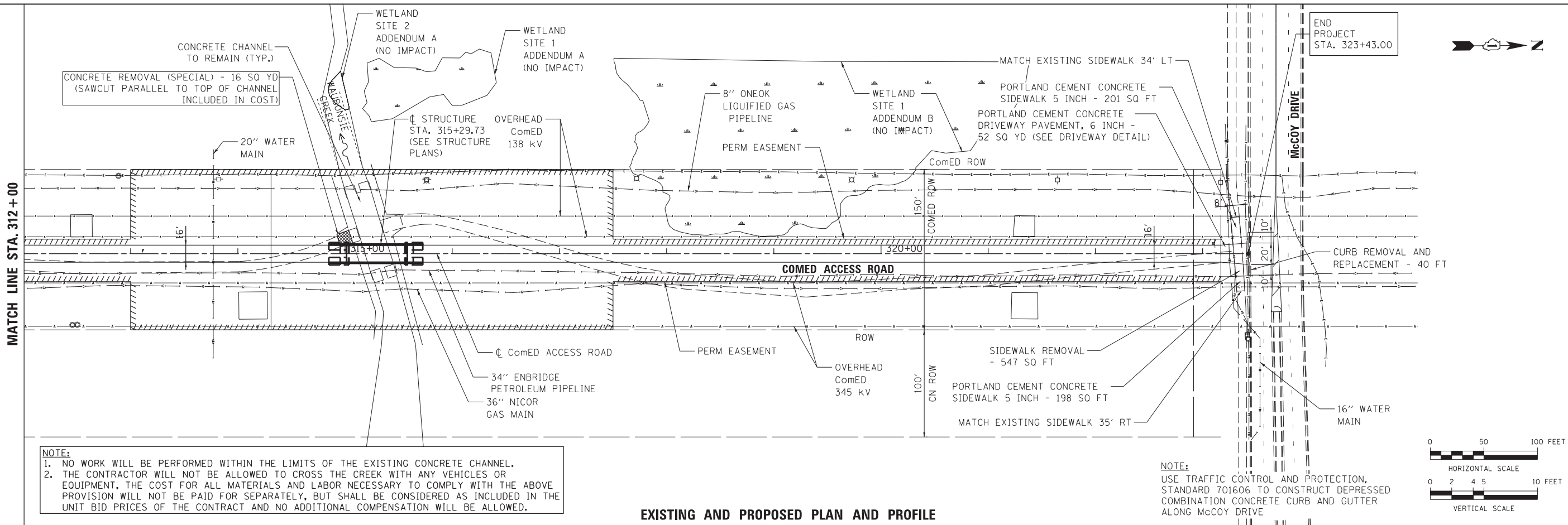
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DuPAGE	45	12
CONTRACT NO. 60T83				
ILLINOIS FED. AID PROJECT				

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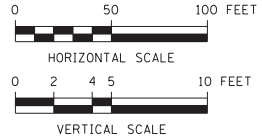
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	GRADES		
	STRUCTURE		
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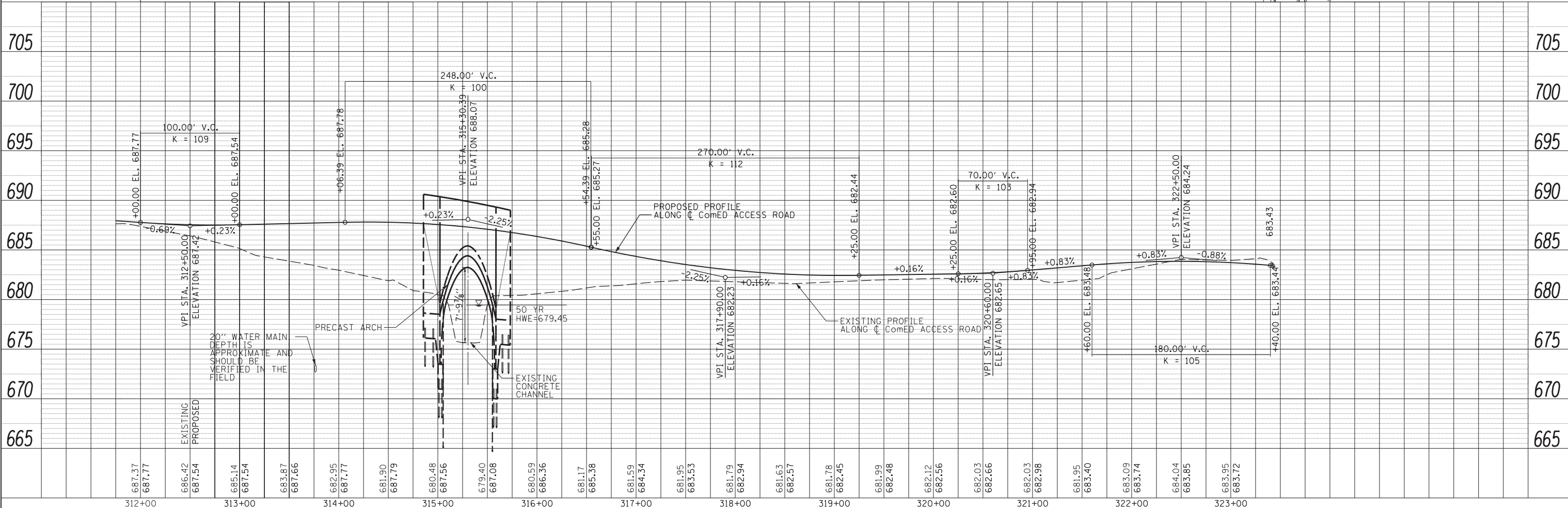


**NOTE:**  
 1. NO WORK WILL BE PERFORMED WITHIN THE LIMITS OF THE EXISTING CONCRETE CHANNEL.  
 2. THE CONTRACTOR WILL NOT BE ALLOWED TO CROSS THE CREEK WITH ANY VEHICLES OR EQUIPMENT, THE COST FOR ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**NOTE:**  
 USE TRAFFIC CONTROL AND PROTECTION, STANDARD 701606 TO CONSTRUCT DEPRESSED COMBINATION CONCRETE CURB AND GUTTER ALONG MCCOY DRIVE



**EXISTING AND PROPOSED PLAN AND PROFILE**



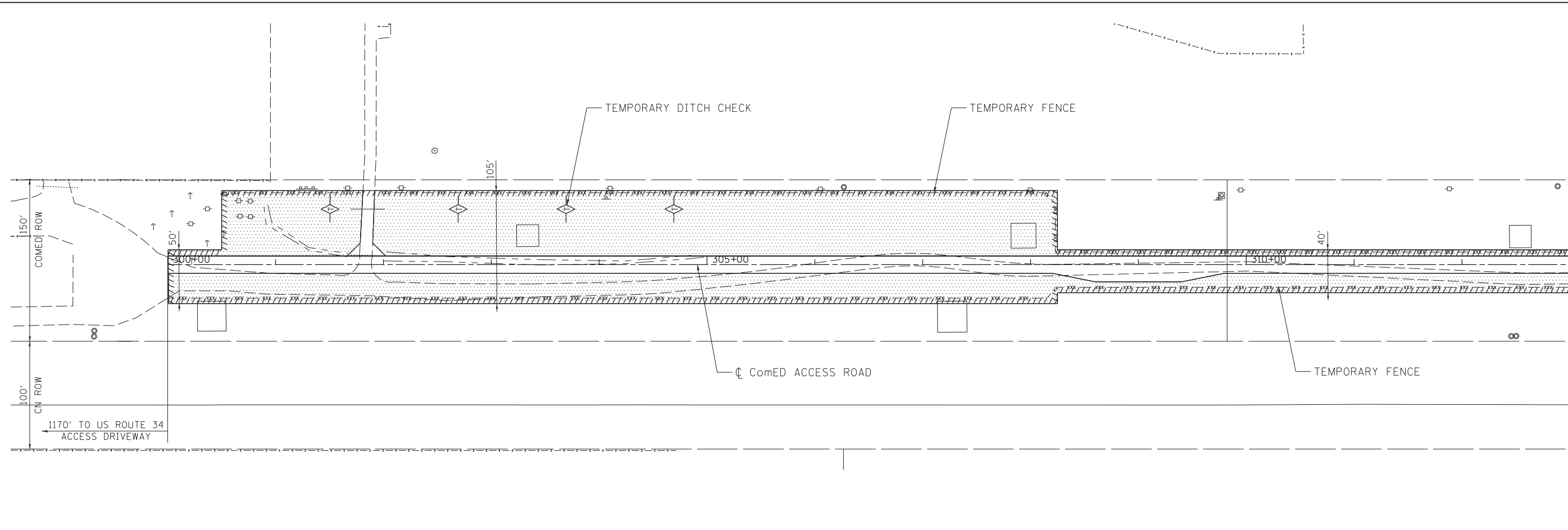
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

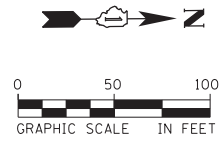
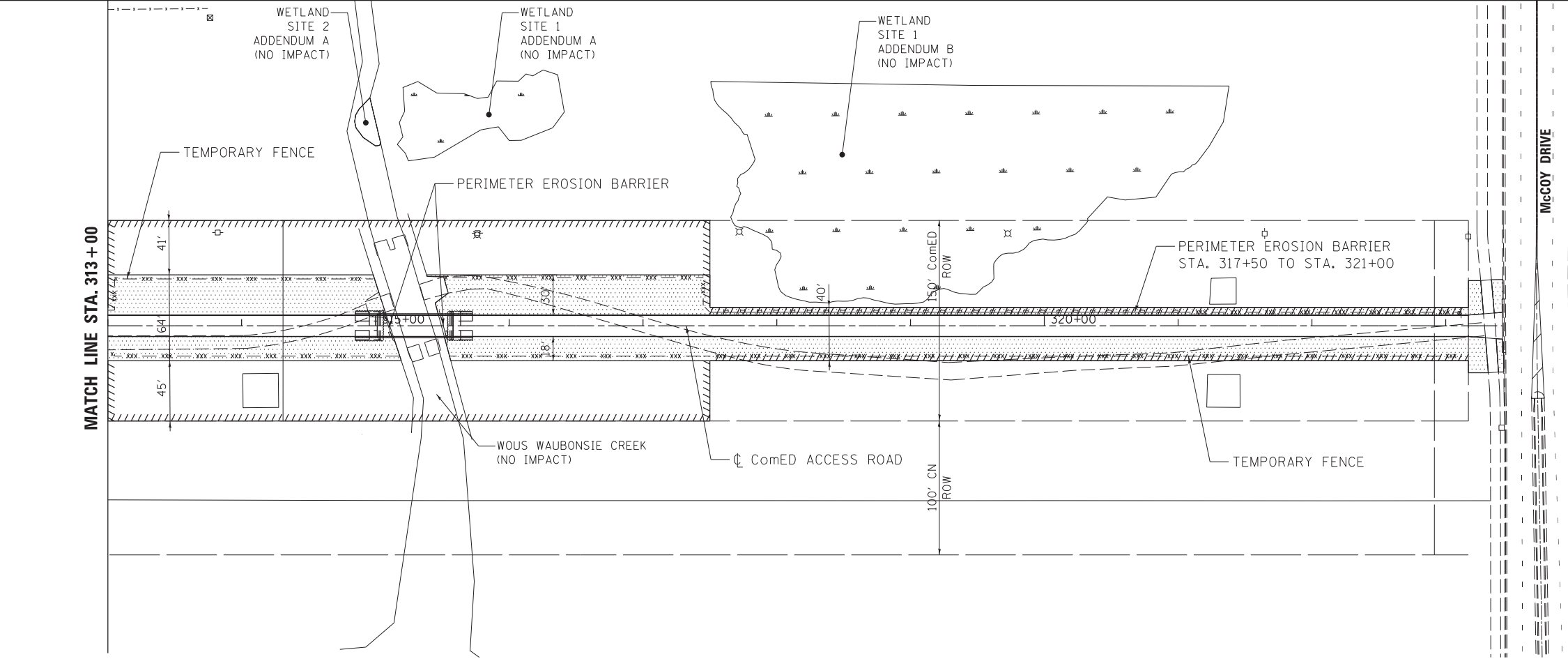
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




F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DuPAGE	45	13
CONTRACT NO. 60T83				
ILLINOIS FED. AID PROJECT				



MATCH LINE STA. 313+00



EROSION CONTROL LEGEND

-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER
-  TEMPORARY FENCE
-  INLET AND PIPE PROTECTION
-  TEMPORARY EROSION CONTROL SEEDING  
MULCH METHOD 2  
TOPSOIL FURNISH AND PLACE, 4"  
SEEDING CLASS 3  
EROSION CONTROL BLANKET SPECIAL

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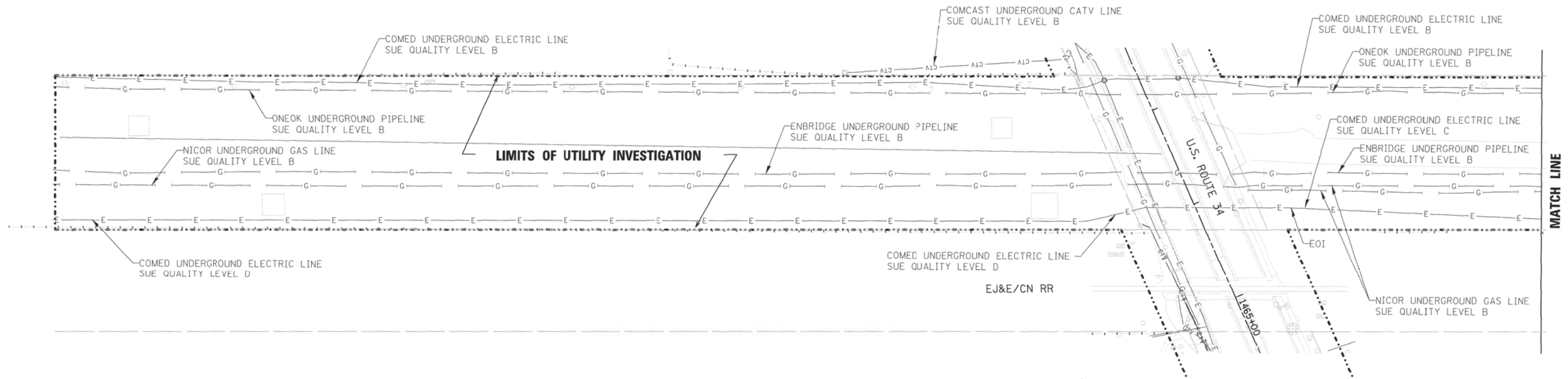
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	DRAWN - KJB	REVISED -
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PLOT DATE = 5/13/2013	DATE - 5/13/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN  
COMED DRIVE

SCALE: 50 SHEET NO. 1 OF 1 SHEETS STA. 300+00 TO STA. 323+43

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DUPAGE	45	14
CONTRACT NO. 60T83				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 17TH OF JUNE AND 30TH DAY OF JULY, A.D., 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 5TH DAY OF AUGUST A.D., 2010. CHICAGO, IL.



*Steven M. Rienks*  
STEVEN M. RIENKS ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619  
MY LICENSE EXPIRES 11/30/2011

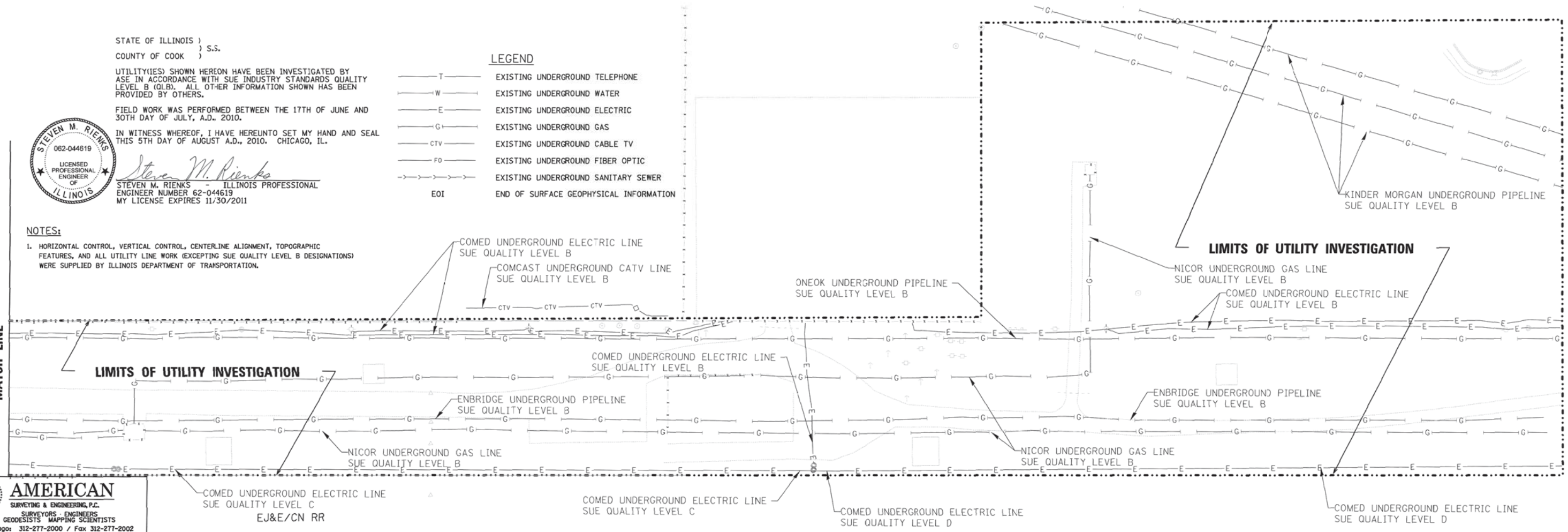
**LEGEND**

- T — EXISTING UNDERGROUND TELEPHONE
- W — EXISTING UNDERGROUND WATER
- E — EXISTING UNDERGROUND ELECTRIC
- G — EXISTING UNDERGROUND GAS
- CTV — EXISTING UNDERGROUND CABLE TV
- FO — EXISTING UNDERGROUND FIBER OPTIC
- S — EXISTING UNDERGROUND SANITARY SEWER
- EOI END OF SURFACE GEOPHYSICAL INFORMATION

**NOTES:**

- HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND ALL UTILITY LINE WORK (EXCEPTING SUE QUALITY LEVEL B DESIGNATIONS) WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.

MATCH LINE



**AMERICAN**  
SURVEYING & ENGINEERING, P.C.  
SURVEYORS - ENGINEERS  
GEODESISTS - MAPPING SCIENTISTS  
Chicago: 312-277-2000 / Fax 312-277-2002  
Dixon: 815-288-6231 / Fax 815-288-6277  
Aurora: 603-897-4105 / Fax 630-897-4121  
Illinois Professional Design Firm No. 184-003192



USER NAME = \$USER\$	DESIGNED - ---	REVISED - ---
	DRAWN - ---	REVISED - ---
PLOT SCALE = 50.0000' / IN.	CHECKED - ---	REVISED - ---
PLOT DATE = 8/5/2010	DATE - ---	REVISED - ---

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 34 (OGDEN AVENUE) AT EJ&E/CN RR  
SCALE: \_\_\_\_\_ SHEET NO. 3 OF 3 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

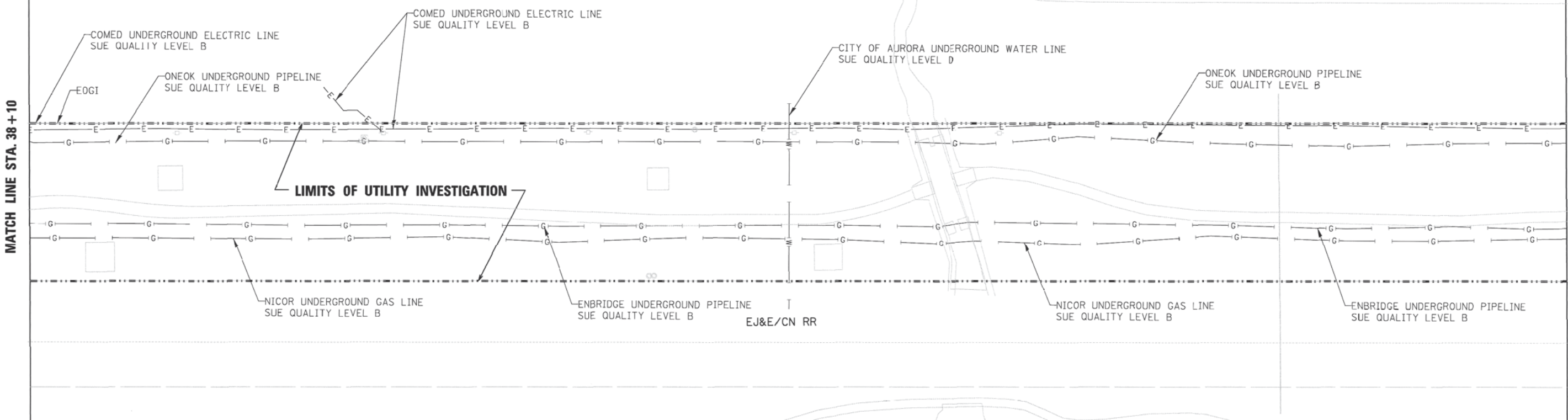
F.A. RTE. 311	SECTION AT EJ&E/CN RR	COUNTY	TOTAL SHEETS 45	SHEET NO. 15
CONTRACT NO.			FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT	

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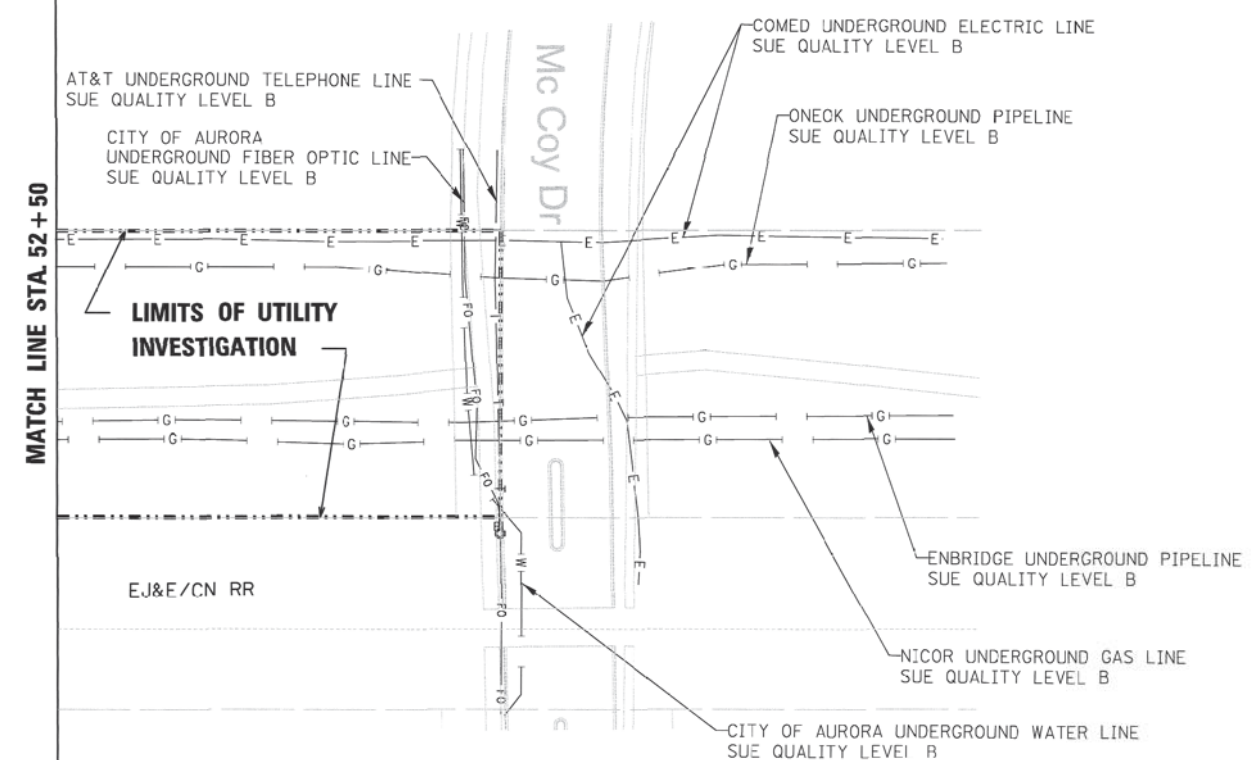


MATCH LINE STA. 38 + 10

MATCH LINE STA. 52 + 50



MATCH LINE STA. 52 + 50



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

UTILITY(IES) SHOWN HEREON HAVE BEEN INVESTIGATED BY ASE IN ACCORDANCE WITH SUE INDUSTRY STANDARDS QUALITY LEVEL B (QLB). ALL OTHER INFORMATION SHOWN HAS BEEN PROVIDED BY OTHERS.

FIELD WORK WAS PERFORMED BETWEEN THE 4TH OF DECEMBER AND 11TH DAY OF DECEMBER, A.D., 2010.

IN WITNESS WHEREOF, I HAVE HEREUNTO SET MY HAND AND SEAL THIS 20TH DAY OF DECEMBER, A.D., 2010. CHICAGO, IL.



*Steven M. Rienks*  
STEVEN M. RIENKS - ILLINOIS PROFESSIONAL ENGINEER NUMBER 62-044619  
MY LICENSE EXPIRES 11/30/2011

**LEGEND**

- T — EXISTING UNDERGROUND TELEPHONE
- W — EXISTING UNDERGROUND WATER
- L — EXISTING UNDERGROUND ELECTRIC
- G — EXISTING UNDERGROUND GAS
- CTV — EXISTING UNDERGROUND CABLE TV
- FO — EXISTING UNDERGROUND FIBER OPTIC
- S — EXISTING UNDERGROUND SANITARY SEWER
- EOGI END OF SURFACE GEOPHYSICAL INFORMATION

**NOTES:**

1. HORIZONTAL CONTROL, VERTICAL CONTROL, CENTERLINE ALIGNMENT, TOPOGRAPHIC FEATURES, AND ALL UTILITY LINE WORK (EXCEPTING SUE QUALITY LEVEL B DESIGNATIONS) WERE SUPPLIED BY ILLINOIS DEPARTMENT OF TRANSPORTATION.



USER NAME = #USER#	DESIGNED - ---	REVISED - ---
PLOT SCALE = 50.0000' / IN.	DRAWN - ---	REVISED - ---
PLOT DATE = 12/20/2010	CHECKED - ---	REVISED - ---
	DATE - ---	REVISED - ---

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

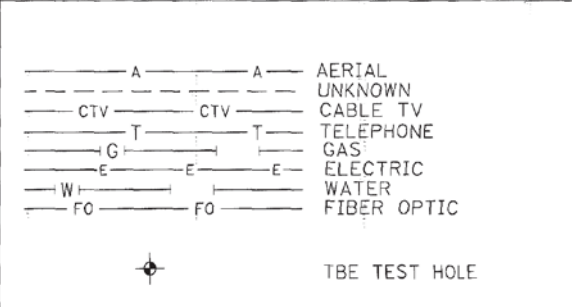
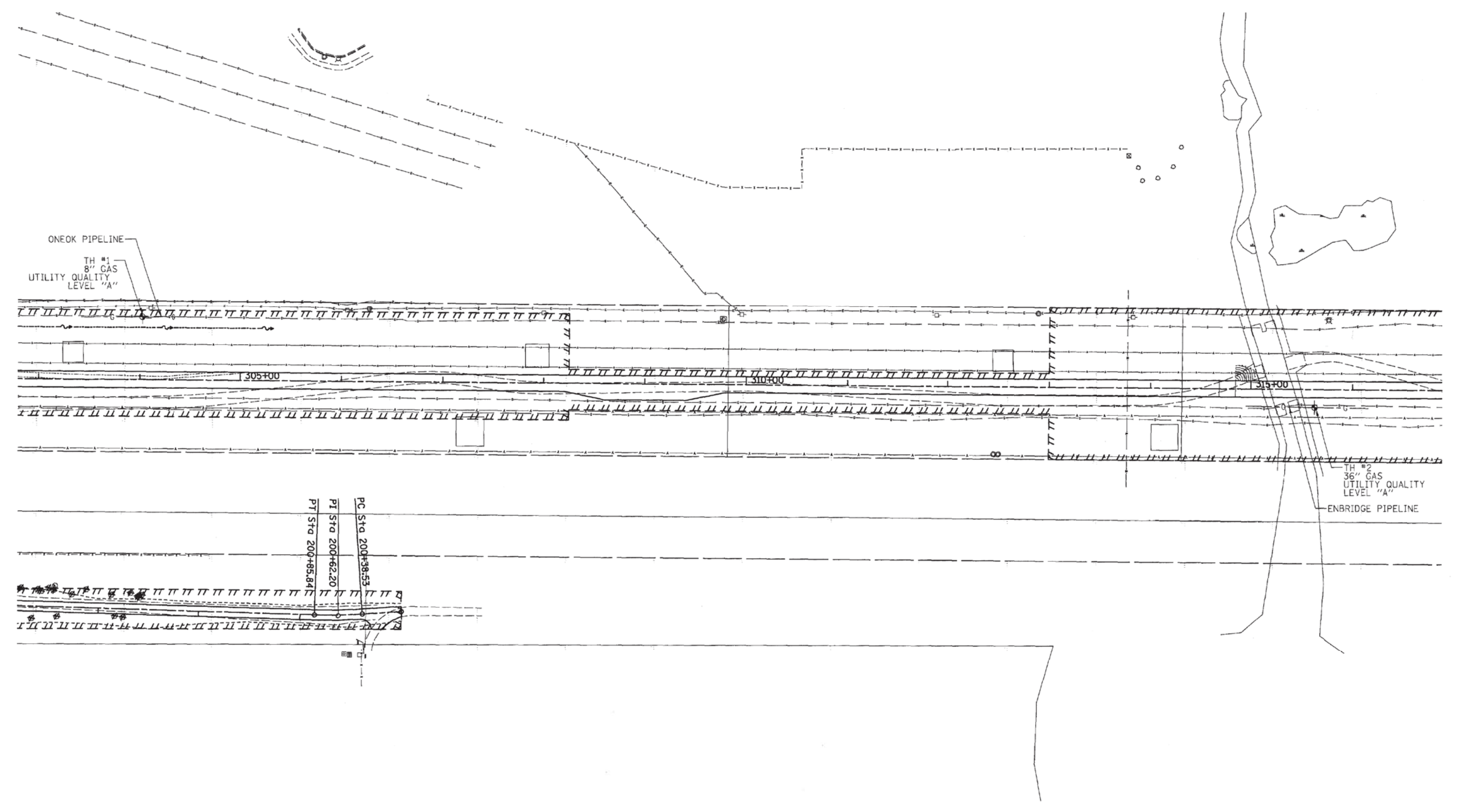
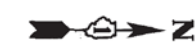
**U.S. ROUTE 34 (OGDEN AVENUE) AT EJ&E/CN RR**

SCALE: \_\_\_\_\_ SHEET NO. \_\_\_ OF \_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A. RTE. 311	SECTION AT EJ&E/CN RR	COUNTY DUPAGE	TOTAL SHEETS 45	SHEET NO. 16
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. _____	

FILE NAME = #FILE#

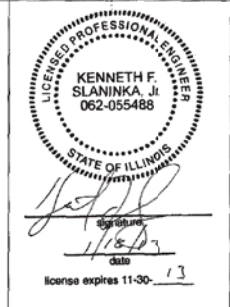
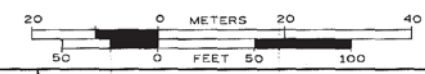




UTILITY OWNERS	
ONEOK PIPELINE = GAS	
ENBRIDGE PIPELINE = GAS	

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's QL "A" Test Holes were performed on 1/14/12. Changes to utilities after 1/14/13 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.



TBE Job No. IL09510518  
SUE Plan Page: 1 of 1

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 <i>EG</i>	REVISED
DRAWN <i>SRK</i>	REVISED
CHECKED <i>KFS</i>	REVISED
DATE <i>1/17/13</i>	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US 34 at CN Railroad  
Aurora, Illinois

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2012-0371	DuPage	45	17
Contract No. 60T83				
FED. ROAD DIST. NO. - [ILLINOIS] IDOT Project No.				

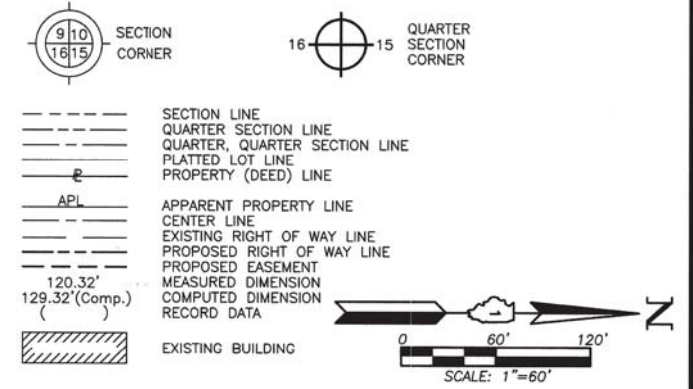


PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1JY0015P.E. 1JY0015T.E.	Commonwealth Edison Company formerly known as Public Service Company of Northern Illinois	N/A	N/A	N/A	N/A	P.E.=0.034 T.E.=4.425	Highway Purposes Construction Purposes	07-20-413-002 07-29-200-002 07-29-200-004 07-29-200-006 07-29-200-008 07-29-400-002 07-29-402-002	

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
308+24.96	36.15' Rt.	1,851,552.545	1,011,465.025

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1JY0015	217098	July 6, 1926
1JY0015	322413	February 15, 1932
1JY0015	R93-287568	December 10, 1993
----	R79-72361	August 14, 1979
----	R85-22940	April 2, 1985
----	R90-146495	October 30, 1990
----	R93-192277	August 27, 1993
----	R93-287578	December 10, 1993

LEGEND



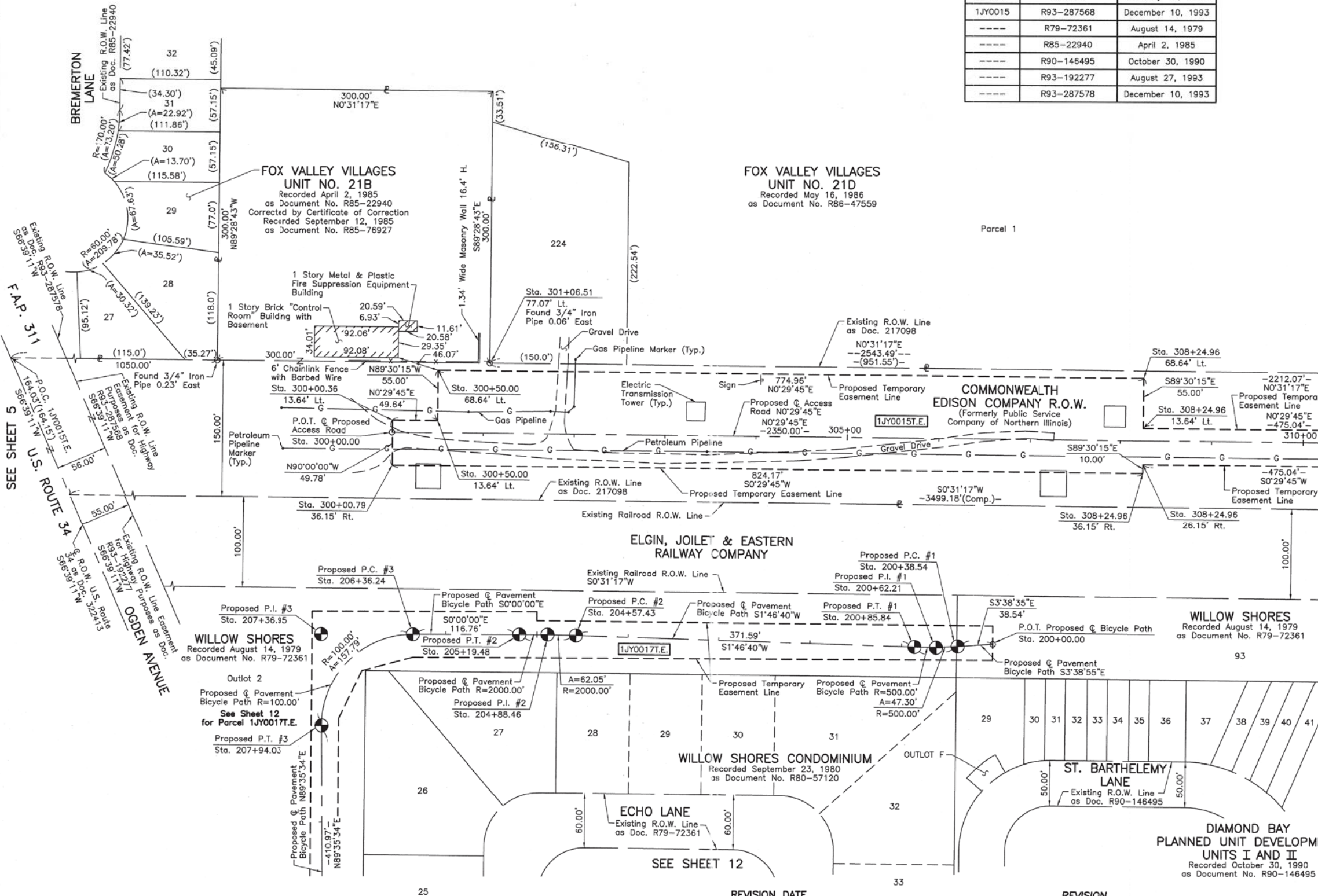
- Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.
- IRON PIPE OR ROD FOUND      ⊕ "MAG" NAIL SET
  - + CUT CROSS FOUND OR SET      ● 5/8" REBAR SET
  - T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS' REGISTRATION NUMBER.
  - BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS' REGISTRATION NUMBER.
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  - ⊕ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
  - RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }  
 COUNTY OF LAKE }  
 THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 29, TOWNSHIP 38N., RANGE 9E., OF THE THIRD PRINCIPAL MERIDIAN, DuPAGE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.  
 DATED AT LAKE VILLA, ILLINOIS THIS 28th DAY OF June 2012 A.D.



*Christian H. Jorgensen* PRESIDENT  
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797  
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2012  
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.  
 Note: Surface Coordinates are Shown.

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
300+00.36	13.64' Lt.	1,850,728.405	1,011,408.107
300+00.79	36.15' Rt.	1,850,728.405	1,011,457.892
300+50.00	68.64' Lt.	1,850,778.518	1,011,353.539
300+50.00	13.64' Lt.	1,850,778.042	1,011,408.537
301+06.51	77.07' Lt.	1,850,835.103	1,011,345.594
308+24.96	68.64' Lt.	1,851,553.452	1,011,360.246
308+24.96	13.64' Lt.	1,851,552.976	1,011,415.244
308+24.96	26.15' Rt.	1,851,552.632	1,011,455.026



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JORGENSEN & ASSOCIATES, INC.  
 120 PARK AVENUE  
 LAKE VILLA, ILLINOIS 60046  
 (847) 356-3371

**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 F.A.P. 311 (U.S. ROUTE 34)  
 SECTION 652-A DuPAGE COUNTY  
 PROJECT JOB NO. R-91-014-11  
 STATION 300+00.00 TO STATION 310+00  
 SCALE: 1"=60' SHEET 10 OF 18

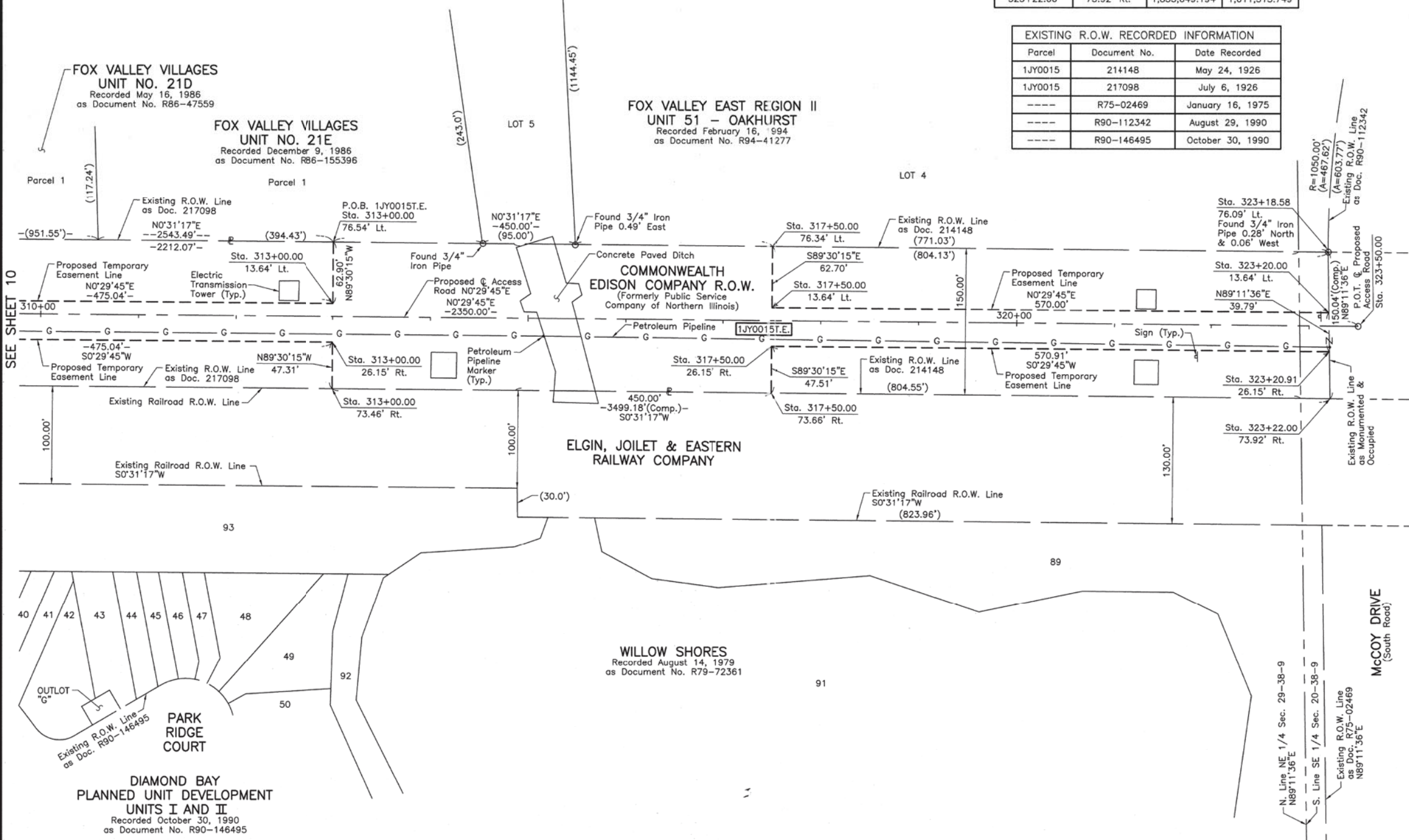
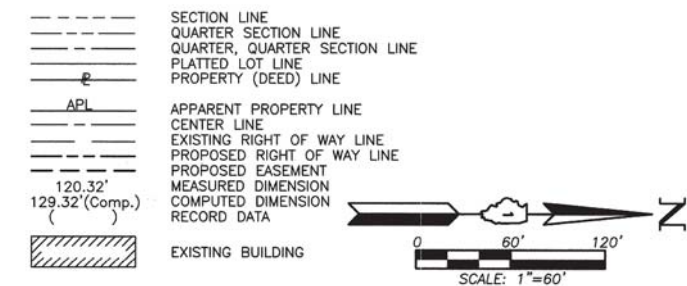
BUREAU OF LAND ACQUISITION  
 201 WEST CENTER COURT  
 SCHAMBURG, ILLINOIS 60196

SHEET 19 OF 45

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
1JY0015P.E. 1JY0015T.E.	Commonwealth Edison Company formerly known as Public Service Company of Northern Illinois	N/A	N/A	N/A	N/A	P.E.=0.034 T.E.=4.425	Highway Purposes Construction Purposes	07-20-413-002 07-29-200-002 07-29-200-004 07-29-200-008 07-29-400-002 07-29-402-002	

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
317+50.00	73.66' Rt.	1,852,477.223	1,011,510.544
323+18.58	76.09' Lt.	1,853,047.082	1,011,365.724
323+20.00	13.64' Lt.	1,853,047.961	1,011,428.184
323+20.91	26.15' Rt.	1,853,048.521	1,011,467.974
323+22.00	73.92' Rt.	1,853,049.194	1,011,515.749

EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
1JY0015	214148	May 24, 1926
1JY0015	217098	July 6, 1926
----	R75-02469	January 16, 1975
----	R90-112342	August 29, 1990
----	R90-146495	October 30, 1990



- Bearings and Coordinates are referred to the Illinois Coordinate System NAD 83(2007) East Zone.
- IRON PIPE OR ROD FOUND
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  - 5/8" REBAR SET
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STATE OF ILLINOIS }  
 COUNTY OF LAKE } SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 20, TOWNSHIP 38N., RANGE 9E. AND SECTION 29, TOWNSHIP 38N., RANGE 9E., OF THE THIRD PRINCIPAL MERIDIAN, DuPAGE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 20\_\_ A.D.



PRESIDENT  
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797  
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2012  
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Note: Surface Coordinates are Shown.

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
313+00.00	76.54' Lt.	1,852,028.540	1,011,356.455
313+00.00	13.64' Lt.	1,852,027.995	1,011,419.356
313+00.00	26.15' Rt.	1,852,027.651	1,011,459.137
313+00.00	73.46' Rt.	1,852,027.241	1,011,506.449
317+50.00	76.34' Lt.	1,852,478.521	1,011,360.550
317+50.00	13.64' Lt.	1,852,477.978	1,011,423.251
317+50.00	26.15' Rt.	1,852,477.634	1,011,463.032

JORGENSEN & ASSOCIATES, INC.  
 120 PARK AVENUE  
 LAKE VILLA, ILLINOIS 60046  
 (847) 356-3371

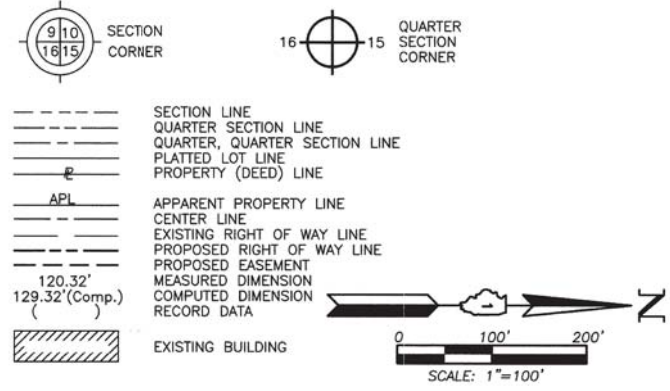
**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 F.A.P. 311 (U.S. ROUTE 34)  
 SECTION 652-A DuPAGE COUNTY  
 PROJECT JOB NO. R-91-014-11  
 STATION 310+00 TO STATION 323+50.00  
 SCALE: 1"=60' SHEET 11 OF 18

**BUREAU OF LAND ACQUISITION**  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196

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PART OF THE SE 1/4 OF SEC. 20 AND PART OF THE NE 1/4 OF SEC. 29, TWP. 38 N., R. 9 E. OF THE 3RD. P.M., IN DuPAGE COUNTY, ILLINOIS.

**LEGEND**



- Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.
- IRON PIPE OR ROD FOUND      ⊕ "MAG" NAIL SET
  - + CUT CROSS FOUND OR SET      ● 5/8" REBAR SET
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  - RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS } SS  
 COUNTY OF LAKE } SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, AVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 20, TOWNSHIP 38N., RANGE 9E. AND SECTION 29, TOWNSHIP 38N., RANGE 9E., OF THE THIRD PRINCIPAL MERIDIAN, DuPAGE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 28th DAY OF June 2012 A.D.

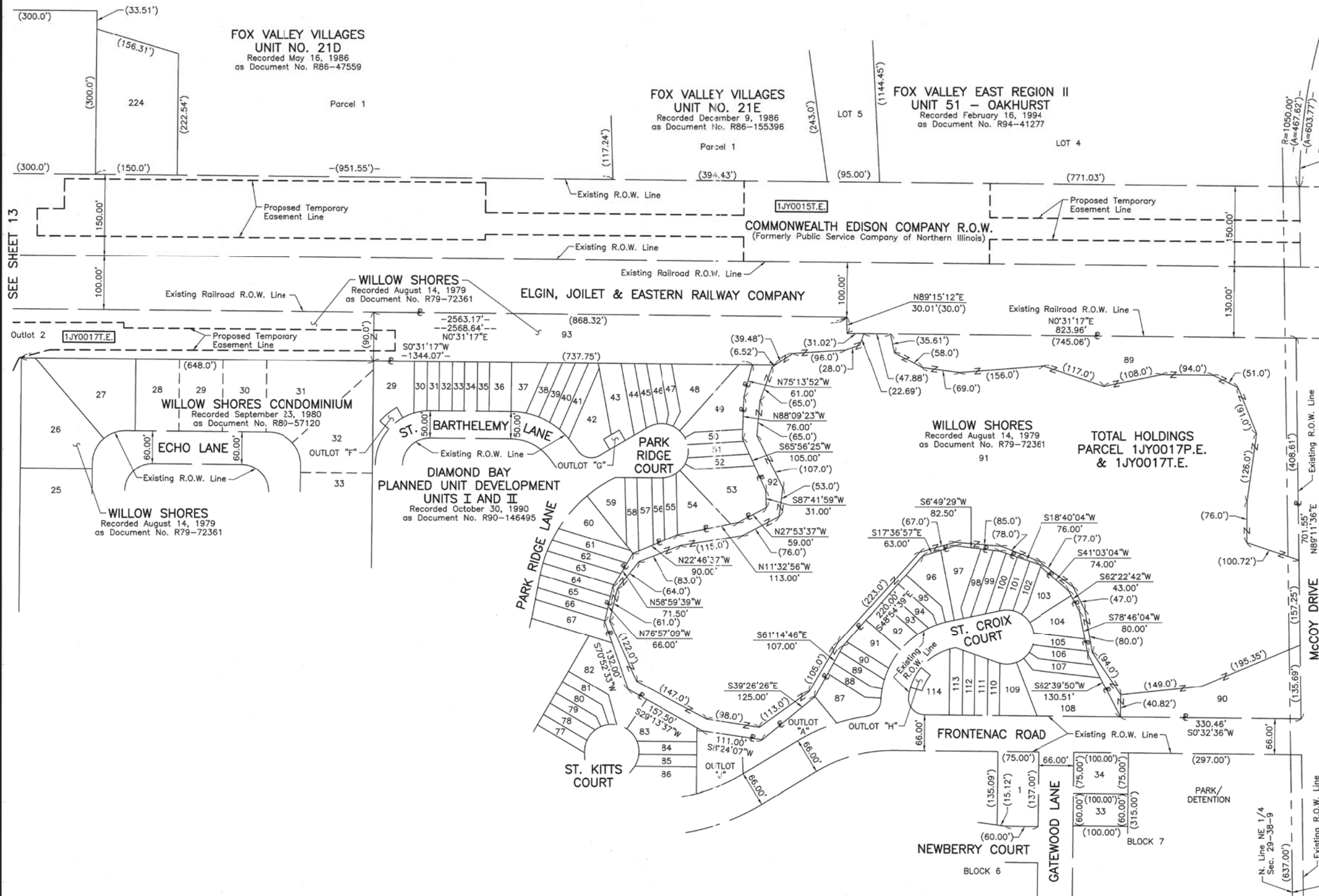
*Christian H. Jorgensen* PRESIDENT  
 2797 PROFESSIONAL LAND SURVEYOR NO. 35-2797  
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2012  
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



JORGENSEN & ASSOCIATES, INC.  
 120 PARK AVENUE  
 LAKE VILLA, ILLINOIS 60046 SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.  
 (847) 356-3371

**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 F.A.P. 311 (U.S. ROUTE 34)  
 SECTION 652-A DuPAGE COUNTY  
 PROJECT JOB NO. R-91-014-11  
 STATION NONE TO STATION  
 SCALE: 1"=100' SHEET 14 OF 18

BUREAU OF LAND ACQUISITION  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196



SEE SHEET 13

REVISION DATE

REVISION

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MADE BY

PART OF THE SE 1/4 OF SEC. 20 AND PART OF THE NE 1/4 OF SEC. 29, TWP. 38 N., R. 9 E. OF THE 3RD. P.M., IN DuPAGE COUNTY, ILLINOIS.

### LEGEND

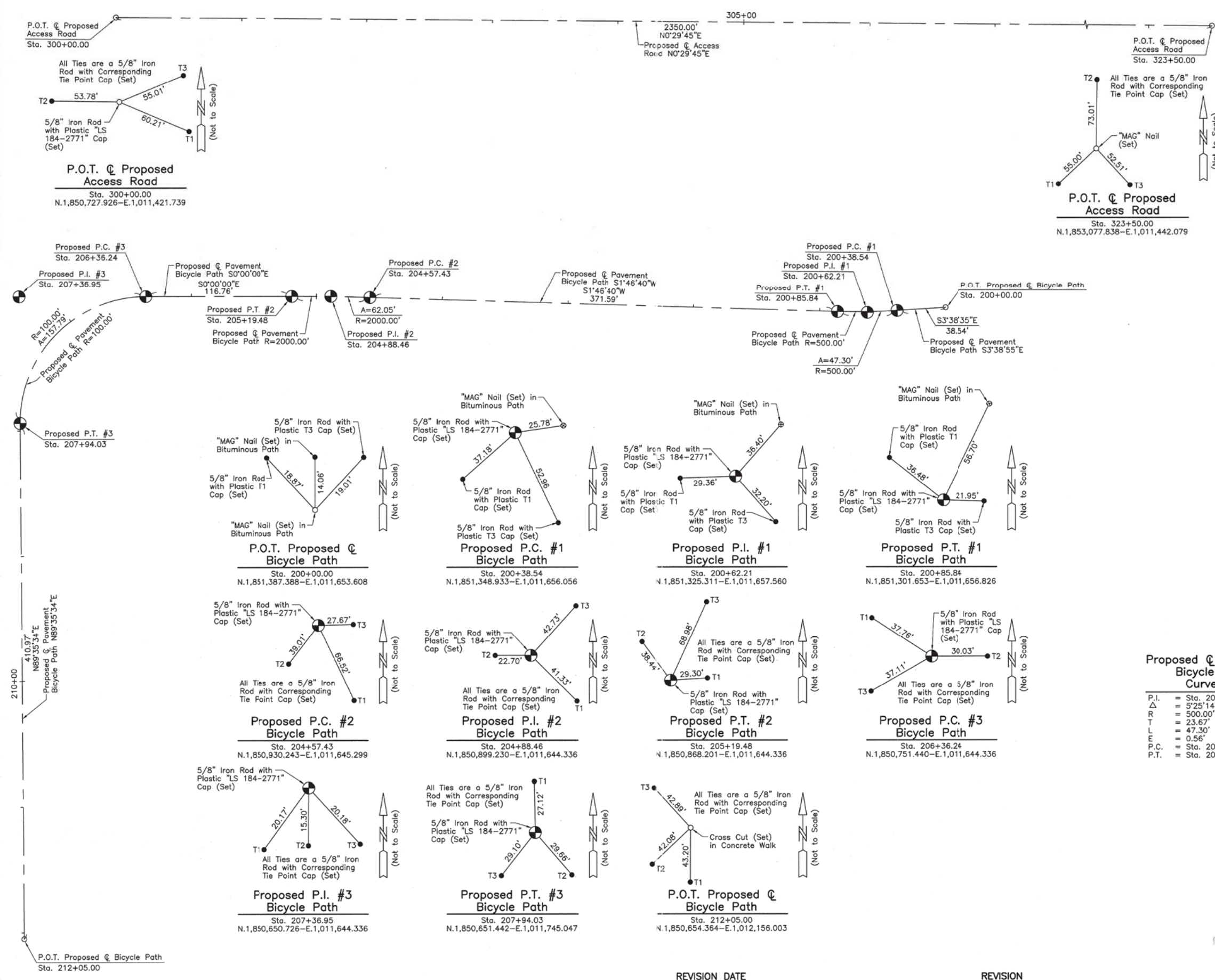
SECTION CORNER: 9/10, 16/15  
 QUARTER SECTION CORNER: 16, 15

SECTION LINE  
 QUARTER SECTION LINE  
 QUARTER SECTION LINE  
 PLATTED LOT LINE  
 PROPERTY (DEED) LINE

APL  
 APPARENT PROPERTY LINE  
 CENTER LINE  
 EXISTING RIGHT OF WAY LINE  
 PROPOSED RIGHT OF WAY LINE  
 PROPOSED EASEMENT  
 MEASURED DIMENSION  
 COMPUTED DIMENSION  
 RECORD DATA

EXISTING BUILDING

Scale: 1"=40'



- Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.
- IRON PIPE OR ROD FOUND
  - ⊕ "MAG" NAIL SET
  - + CUT CROSS FOUND OR SET
  - 5/8" REBAR SET
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  - T2
  - T3
  - B11 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
  - BT2
  - BT3
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STATE OF ILLINOIS }  
 COUNTY OF LAKE } SS

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DATED AT LAKE VILLA, ILLINOIS THIS 25th DAY OF October 2012 A.D.

Christian H. Jorgensen PRESIDENT  
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797  
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2012  
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.  
 Note: Surface Coordinates are Shown.

Proposed Pavement Bicycle Path Curve #1	Proposed Pavement Bicycle Path Curve #2	Proposed Pavement Bicycle Path Curve #3
P.I. = Sta. 200+62.21	P.I. = Sta. 204+88.46	P.I. = Sta. 207+36.95
Δ = 5°25'14"	Δ = 1°46'40"	Δ = 90°24'26"
R = 500.00'	R = 2000.00'	R = 100.00'
T = 23.67'	T = 31.03'	T = 100.71'
L = 47.30'	L = 62.05'	L = 157.79'
E = 0.56'	E = 0.24'	E = 41.93'
P.C. = Sta. 200+38.54	P.C. = Sta. 204+57.43	P.C. = Sta. 206+36.24
P.T. = Sta. 200+85.84	P.T. = Sta. 205+19.48	P.T. = Sta. 207+94.03

JORGENSEN & ASSOCIATES, INC.  
 120 PARK AVENUE  
 LAKE VILLA, ILLINOIS 60046  
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SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

RECEIVED  
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MADE BY

**PLAT OF HIGHWAYS**  
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
 F.A.P. 311 (U.S. ROUTE 34)

SECTION 652-A DuPAGE COUNTY  
 PROJECT JOB NO. R-91-014-11  
 STATION 200+00.00 TO STATION 212+05.00  
 STATION 300+00.00 TO STATION 323+50.00  
 SCALE: 1"=40' SHEET 18 OF 18

**BUREAU OF LAND ACQUISITION**  
 201 WEST CENTER COURT  
 SCHAUMBURG, ILLINOIS 60196

SHEET 22 OF 45

Benchmark: CP#108 - Iron rod in ground south of Waubonsie Creek concrete ditch. Sta. 314+62.03, 86.66' Lt, Elev. 682.15.

Existing Structure: None.

Salvage: None.

\*\*\* See General Note 11 on sheet S-2.

**WATERWAY INFORMATION**

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	425	NA	84	678.61	NA	0	NA	678.61
Base	100	849	NA	130	679.82	NA	0	NA	679.82
Overtop Existing	NA	NA	NA	NA	NA	NA	NA	NA	NA
Overtop Proposed	500	1140	NA	156	680.51	NA	0	NA	680.50

**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (ft.)	D.S.	U.S.
	675.68	675.68

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. (S<sub>01</sub>) = 0.091  
 Design Spectral Acceleration at 0.2 sec. (S<sub>05</sub>) = 0.165  
 Soil Site Class = D

**DESIGN STRESSES**

**FIELD UNITS**

f'c = 3,500 psi  
 fy = 60,000 psi (Reinforcement)

**PRECAST UNITS**

f'c = 5,000 psi  
 fy = 60,000 psi (Reinforcement)

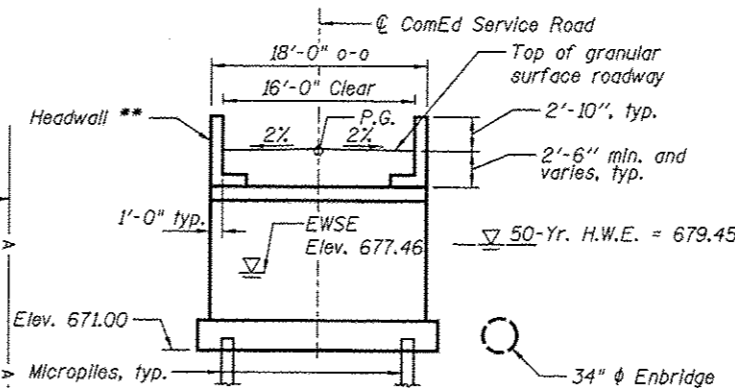
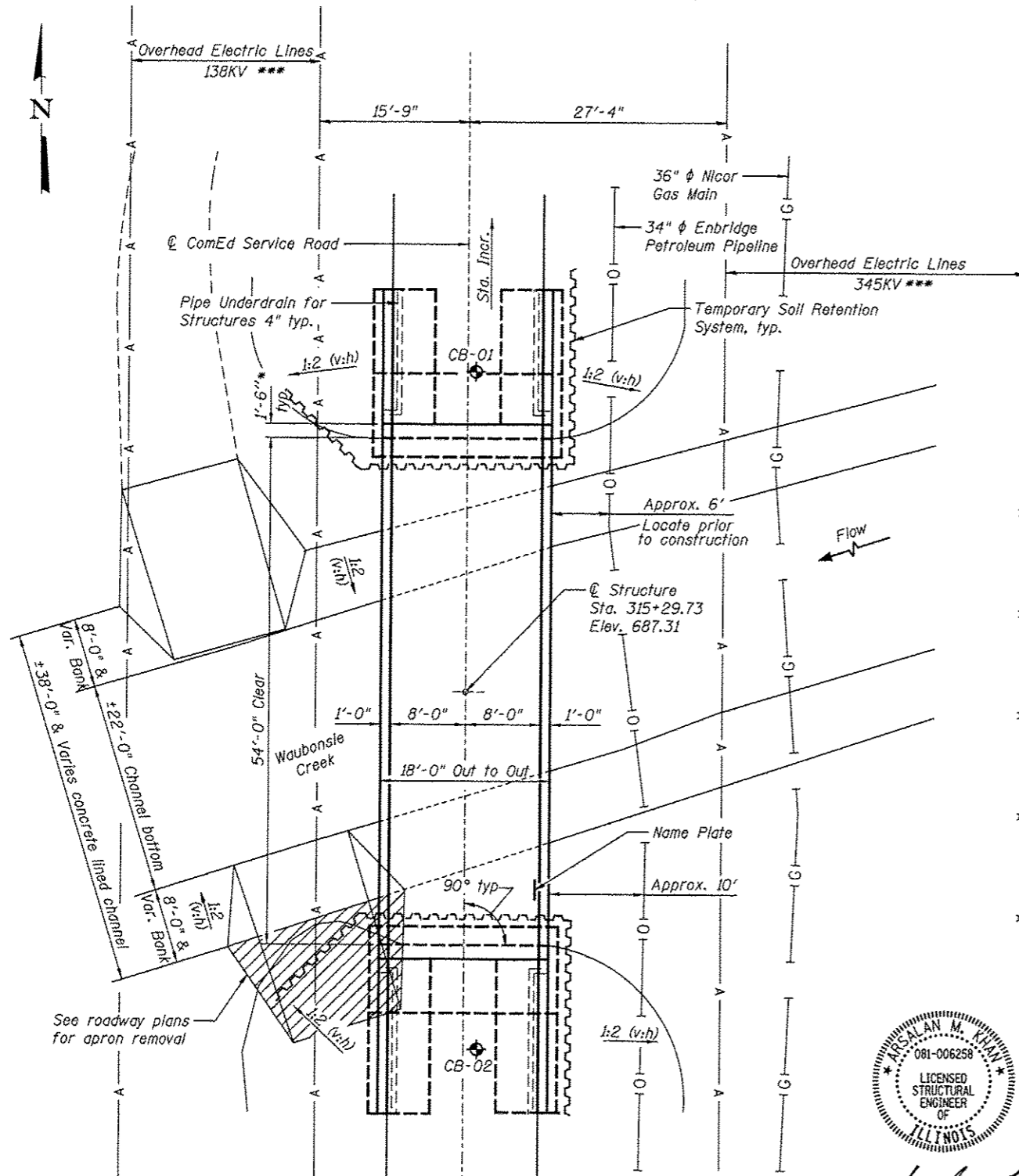
**LOADING HL-93 & COMED OVERLOAD VEHICLE & ALT.**

(See Loading Diagram)  
 No allowance for future wearing surface

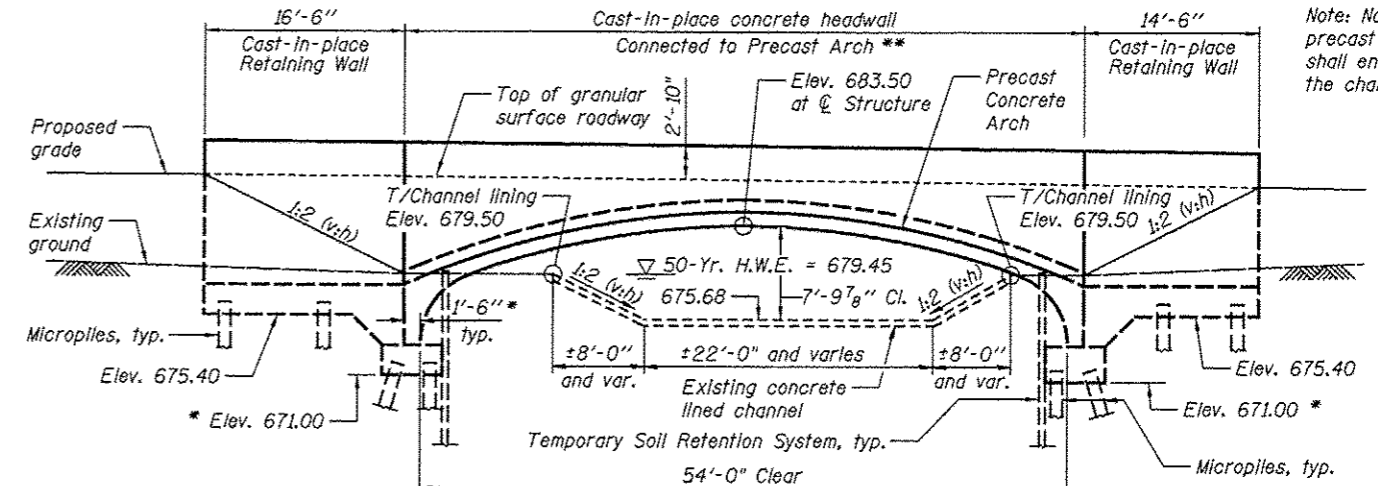
**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

\*\* The headwall and its connection with the arch shall be designed for TL-3 impact loading.

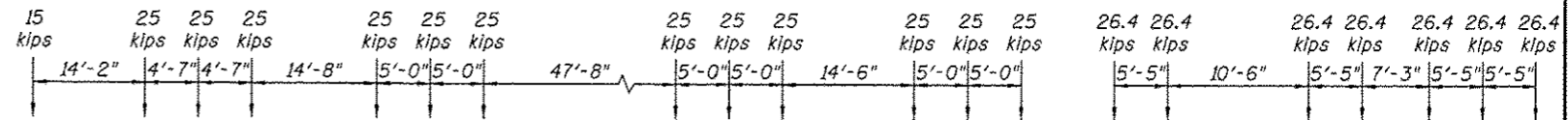


**LONGITUDINAL SECTION**



**ELEVATION**

Taken at upstream face, looking west.  
 \*Wall thickness and bottom of footing elevations may vary as per manufacturer's design.



**COMED OVERLOAD VEHICLE LOADING DIAGRAM**

**ALTERNATE COMED OVERLOAD VEHICLE LOADING DIAGRAM**

This Structure was previously reviewed by the Bridge Office as temporary structure number 022-C002

**GENERAL PLAN & ELEVATION**

**COMED SERVICE ROAD OVER**

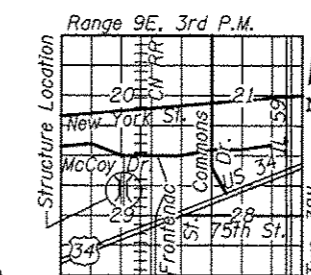
**WAUBONSIE CREEK**

F.A.P. RTE. 311 - SECTION 2012-0371

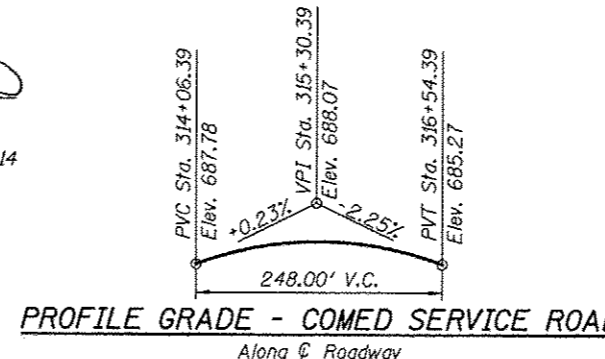
**DUPAGE COUNTY**

**STATION 315+29.73**

**STRUCTURE NO. 022-3046**



**LOCATION SKETCH**



**PROFILE GRADE - COMED SERVICE ROAD**  
 Along @ Roadway



Arsalan M. Khan, S.E.  
 LICENSE NO.: 081-006258  
 EXPIRES: NOVEMBER 30, 2014

**APPROVED**  
 For Structural Adequacy Only

Engineer of Bridges & Structures

STATION 315+29.73  
 BUILT 20\_\_ BY  
 STATE OF ILLINOIS  
 F.A. ROUTE 311 SEC. 2012-0371  
 LOADING HL-93 AND ALTERNATE  
 STR. NO. 022-3046

**NAME PLATE**

See Std. 515001

**PLAN**

**LEGEND**

Soil Boring Location



USER NAME =	DESIGNED - KMP	REVISED
PLOT SCALE =	CHECKED 7 AMK	REVISED
PLOT DATE =	DRAWN - PMV/KMP	REVISED
	CHECKED - AMK	REVISED

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DUPAGE	45	23
CONTRACT NO. 60T83				

**GENERAL NOTES**

- Reinforcement bars designated (E) shall be epoxy coated.
- The foundation design is based on the following maximum reactions applied at the top of the footing:
  - 1068 kips (vertical), 882 kips (horizontal)

The contractor shall verify that the selected structure meets these design parameters. If the design parameters are exceeded, a complete foundation design with calculations, details, and the required seals shall be submitted for review.

- The Contractor shall furnish all tools, materials and equipment necessary to ensure the precast units do not incur cracking while being transported to the project site and when being installed. These provisions shall account for the site restriction of the existing concrete lined channel of the Waubonsie Creek waterway that cannot be removed.
- No work will be performed within the limits of the existing concrete channel.
- The contractor will not be allowed to cross Waubonsie Creek with any vehicles or equipment. The cost for all materials and labor necessary to comply with the above provision 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.
- If the Contractor deems it necessary to drive or operate equipment or vehicles over or immediately adjacent to the Enbridge pipeline, the ONEOK pipeline, or the Nicor gas main, the Contractor will be required to design and install temporary mats over the pipeline. The design shall be submitted to the Engineer for review and approval by the affected utility.
- Any excavation within 10 feet of the Enbridge pipeline will require prior notification of Enbridge so the utility can make arrangements to provide an onsite inspector when that work is being performed.
- Any excavation within 2 feet of the Enbridge pipeline will require non-mechanical excavation.
- The contractor shall contact the local supervisor for ONEOK, Jeff Schaefer at 630-257-5404 extension 2528 before performing any construction near the ONEOK pipeline.
- The contractor shall contact NICOR before performing any construction near the NICOR gas main.

11. There are existing 138 kv and 345 kv lines within the project limits; the contractor needs to be aware that no outage or protection can be provided to these facilities with the one exception noted below. The plans include pay items for micro piles for this reason. Per ComEd and OSHA requirements, without the on-site presence of a representative of ComEd, all contract activities must stay 30 feet in any direction from the 345 kv lines and any ComEd conductors and 20 feet from the 138 kv lines. With on-site ComEd supervision, all contract activities must stay 20 feet in any direction from the 345 kv lines and any ComEd conductors and 13 feet from the 138 kv lines.

A one-time outage of one circuit only for each of the 138 kv and 345 kv transmission line systems may be allowed for lift in of the precast concrete units of the structure over Waubonsie Creek. The contractor shall be responsible for scheduling and arranging in advance with ComEd whether and when these outages can be provided. Outages of five days or less must be requested at least ten (10) weeks in advance. An outage between five and 30 days long must be requested seven months in advance. The contractor shall exercise extreme caution in working around these facilities and any other underground facilities and shall insure conflicts with cranes and other equipment are avoided entirely. The cost to comply with these requirements will not be paid for separately but shall be included in the cost of the precast arch structure pay items.

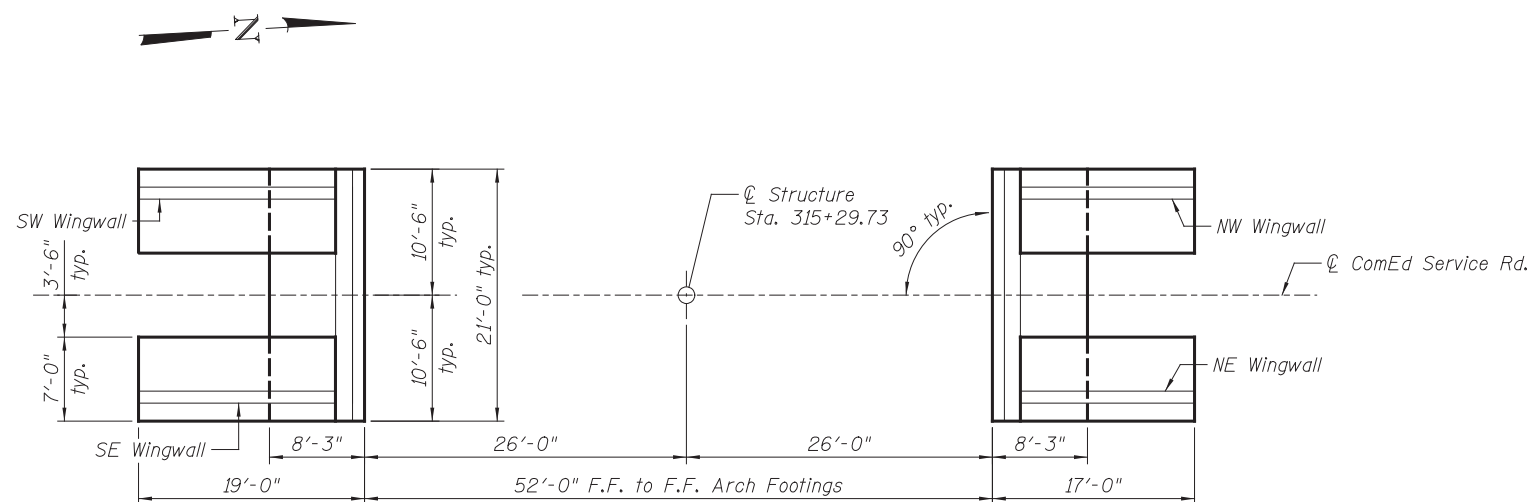
**INDEX OF SHEETS**

- S-1 General Plan and Elevation
- S-2 General Notes, Bill of Materials, and Index of Sheets
- S-3 Temporary Soil Retention System
- S-4 Headwall Details
- S-5 Wingwall and Arch Footing Details 1
- S-6 Wingwall and Arch Footing Details 2
- S-7 Soil Borings 1
- S-8 Soil Borings 2

**BILL OF MATERIALS**

Item	Unit	Total
Structure Excavation	Cu. Yd.	298
Concrete Structures	Cu. Yd.	118.5
Concrete Superstructure	Cu. Yd.	55.3
Reinforcement Bars, Epoxy Coated	Pound	26,370
Name Plates	Each	1
Geocomposite Wall Drain	Sq. Yd.	54
* Micro-piles	Each	44
* Micropile Proof Load Test	Each	1
* Granular Backfill for Structures	Cu. Yd.	71
* Pipe Underdrains for Structures 4"	Foot	66
* Temporary Soil Retention System	Sq. Ft.	855
* Three-Sided Precast Concrete Structures 54'x10', Special	Foot	18

\*Special Provision



**FOOTING LAYOUT**



USER NAME =	DESIGNED - KMP	REVISED
	CHECKED - AMK	REVISED
PLOT SCALE =	DRAWN - KMP	REVISED
PLOT DATE =	CHECKED - AMK	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

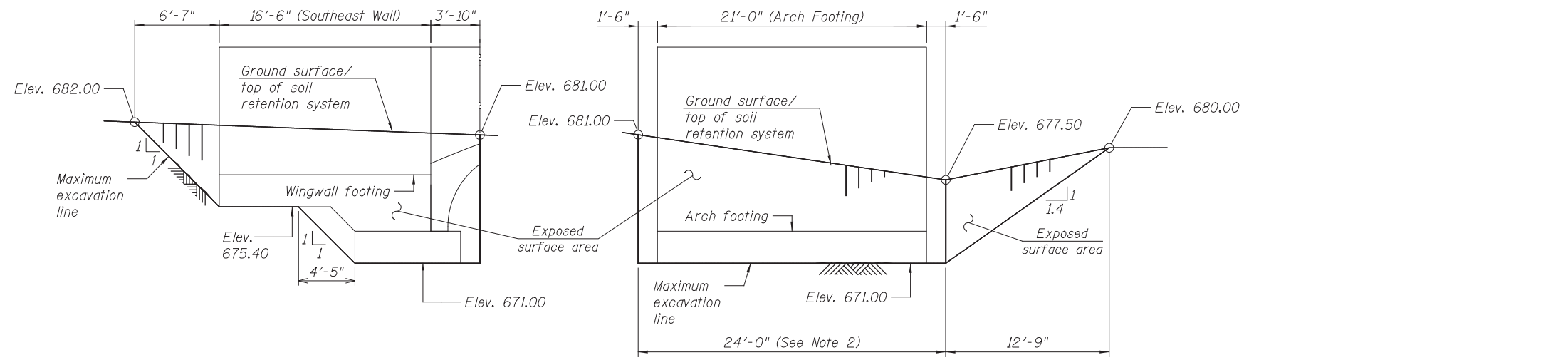
**GENERAL NOTES, BILL OF MATERIALS, AND INDEX OF SHEETS  
STRUCTURE NO. 022-3046**

SHEET NO. S-2 OF S-8 SHEETS

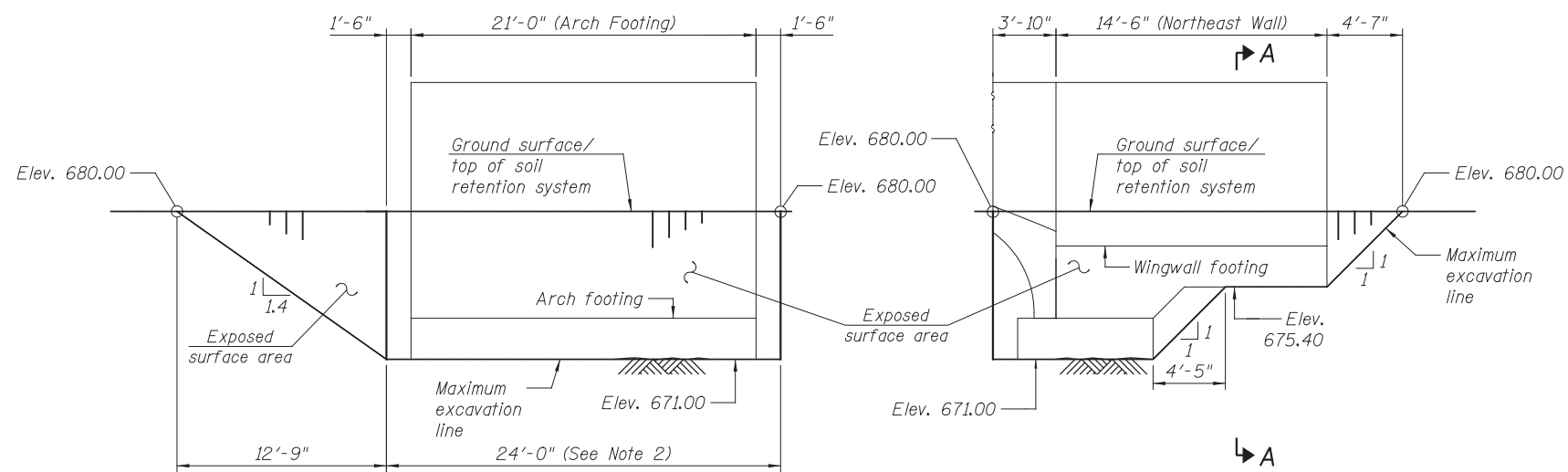
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DuPage	45	24
CONTRACT NO. 60T83				

ILLINOIS FED. AID PROJECT



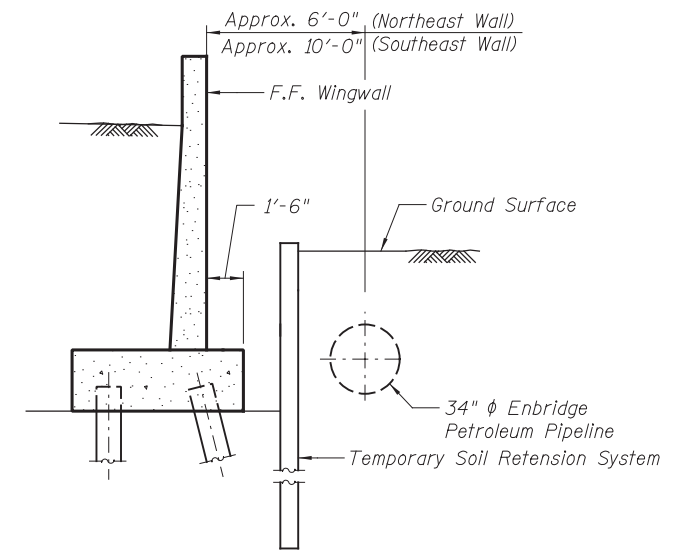


**SOUTH ABUTMENT**



**NORTH ABUTMENT**

**TEMPORARY SOIL RETENTION SYSTEM**



**SECTION A-A**

**NOTES**

1. Installing a cantilevered sheet piling design may not be feasible due to overhead electrical lines, 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.
2. Temporary soil retention system in front of abutments may be left in place. The retention system shall be removed 1'-0" below the finished grade.



USER NAME =	DESIGNED - KMP	REVISED
	CHECKED - AMK	REVISED
PLOT SCALE =	DRAWN - KMP	REVISED
PLOT DATE =	CHECKED - AMK	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY SOIL RETENTION SYSTEM  
STRUCTURE NO. 022-3046**

SHEET NO. S-3 OF S-8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-037I	DuPAGE	45	25
CONTRACT NO. 60T83				

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**TWO HEADWALLS  
BILL OF MATERIAL**

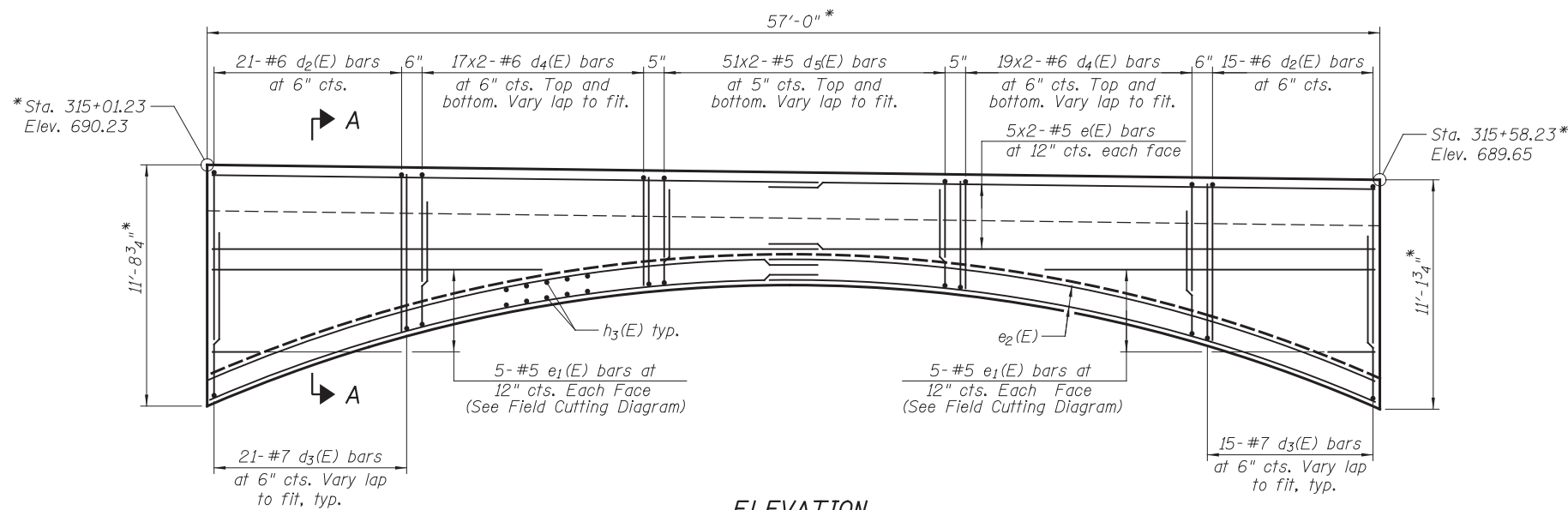
Bar	No.	Size	Length	Shape
d(E)	118	#5	3'-0"	—
d <sub>1</sub> (E)	118	#5	1'-9"	┌
d <sub>2</sub> (E)	72	#6	15'-8"	┌
d <sub>3</sub> (E)	72	#7	15'-8"	┌
d <sub>4</sub> (E)	144	#6	12'-2"	┌
d <sub>5</sub> (E)	204	#5	10'-0"	┌
e(E)	40	#5	30'-2"	—
e <sub>1</sub> (E)	20	#5	18'-9"	—
e <sub>2</sub> (E)	48	#5	31'-0"	—
h <sub>3</sub> (E)	236	#5	4'-2"	—
Concrete Superstructure		Cu. Yd.	55.3	
Reinforcement Bars, Epoxy Coated		Pound	13,580	

**NOTES**

1. Bars indicated thus 6 x 2 - #5 etc. indicates 6 lines of bars with 2 lengths per line.
2. The cost of expansion anchors/inserts is included in the cost of Three-Sided Precast Concrete Structure 54'x10', special.

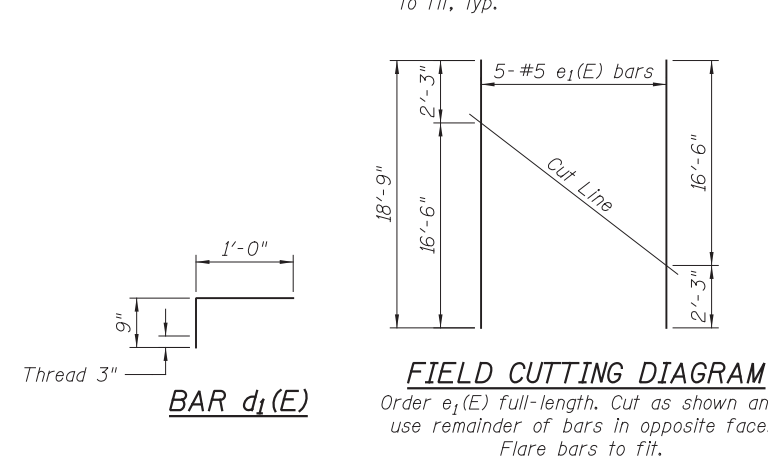
**MINIMUM BAR LAP**

- #5 Bar = 3'-3" (vertical)
- #5 Bar = 3'-8" (horizontal)
- #6 Bar = 3'-10"



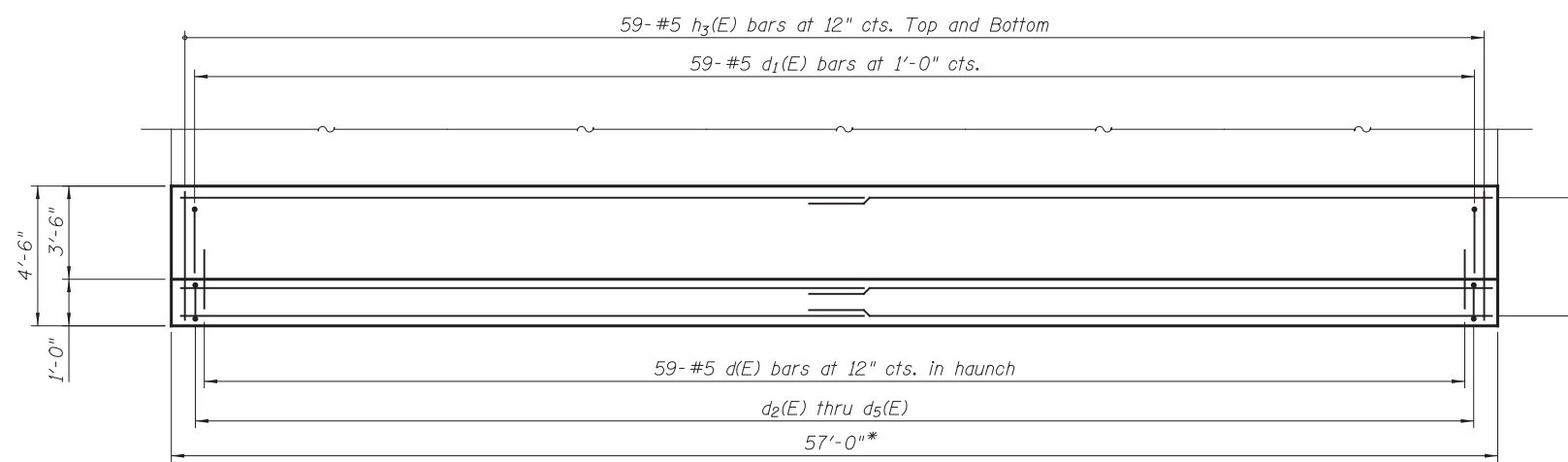
**ELEVATION**

\*May vary based on final precast arch dimensions.



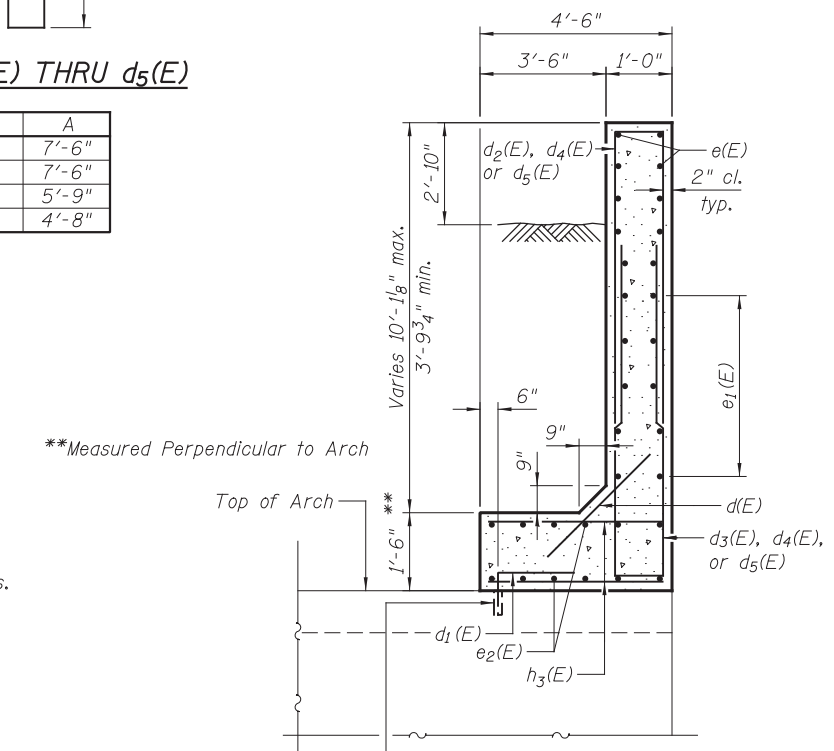
**FIELD CUTTING DIAGRAM**

Order e<sub>1</sub>(E) full-length. Cut as shown and use remainder of bars in opposite face. Flare bars to fit.



**PLAN**

East headwall shown.  
West headwall symmetrical.



**SECTION A-A**

3/4" φ Galvanized expansion anchor or Ferrule Loop Insert (Proof Load 7500 lb.) See Note 2.



USER NAME =	DESIGNED - KMP	REVISED
	CHECKED - AMK	REVISED
PLOT SCALE =	DRAWN - KMP	REVISED
PLOT DATE =	CHECKED - AMK	REVISED

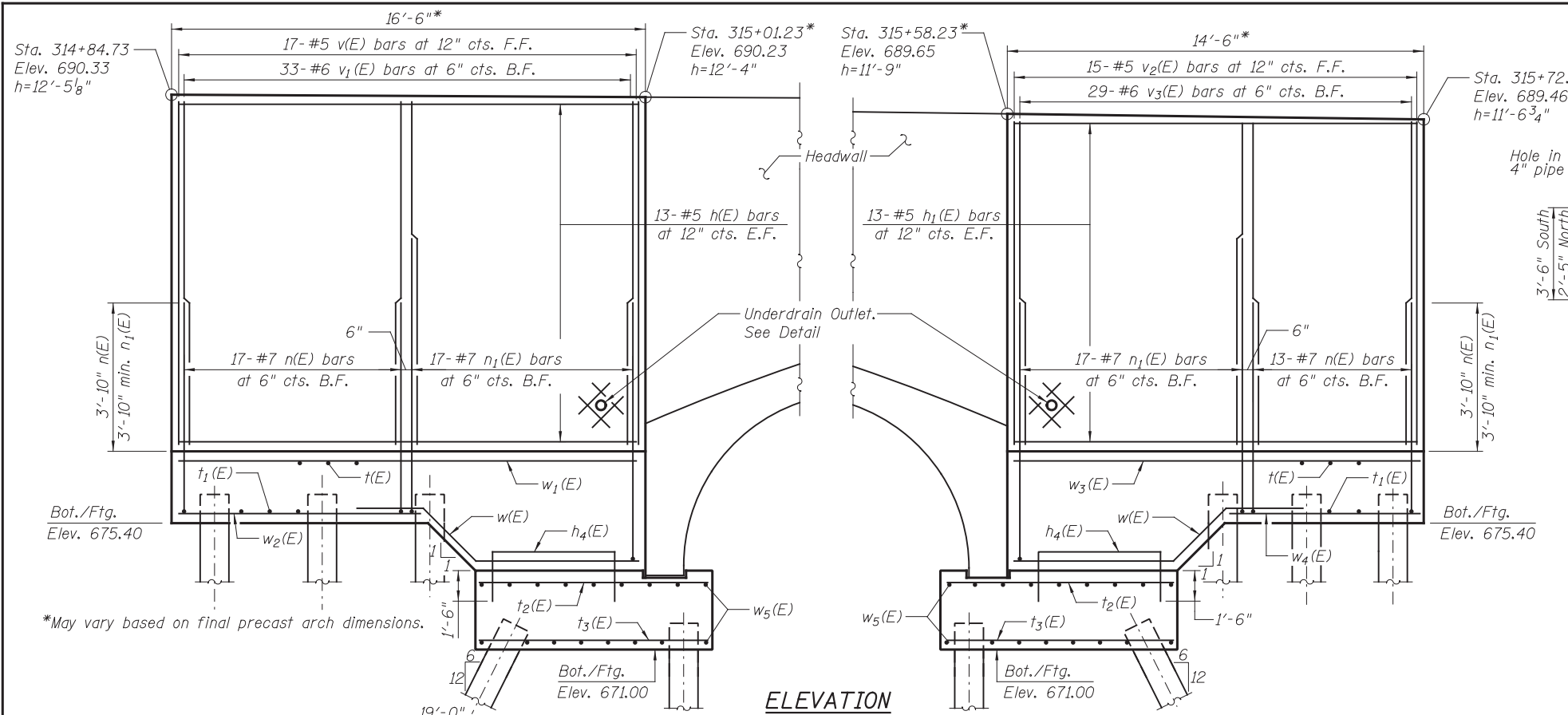
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HEADWALL DETAILS  
STRUCTURE NO. 022-3046**

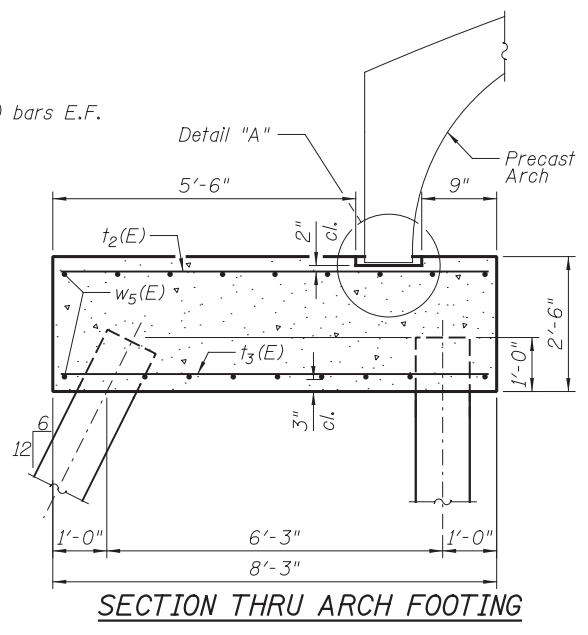
SHEET NO. S-4 OF S-8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DuPAGE	45	26
CONTRACT NO. 60T83				

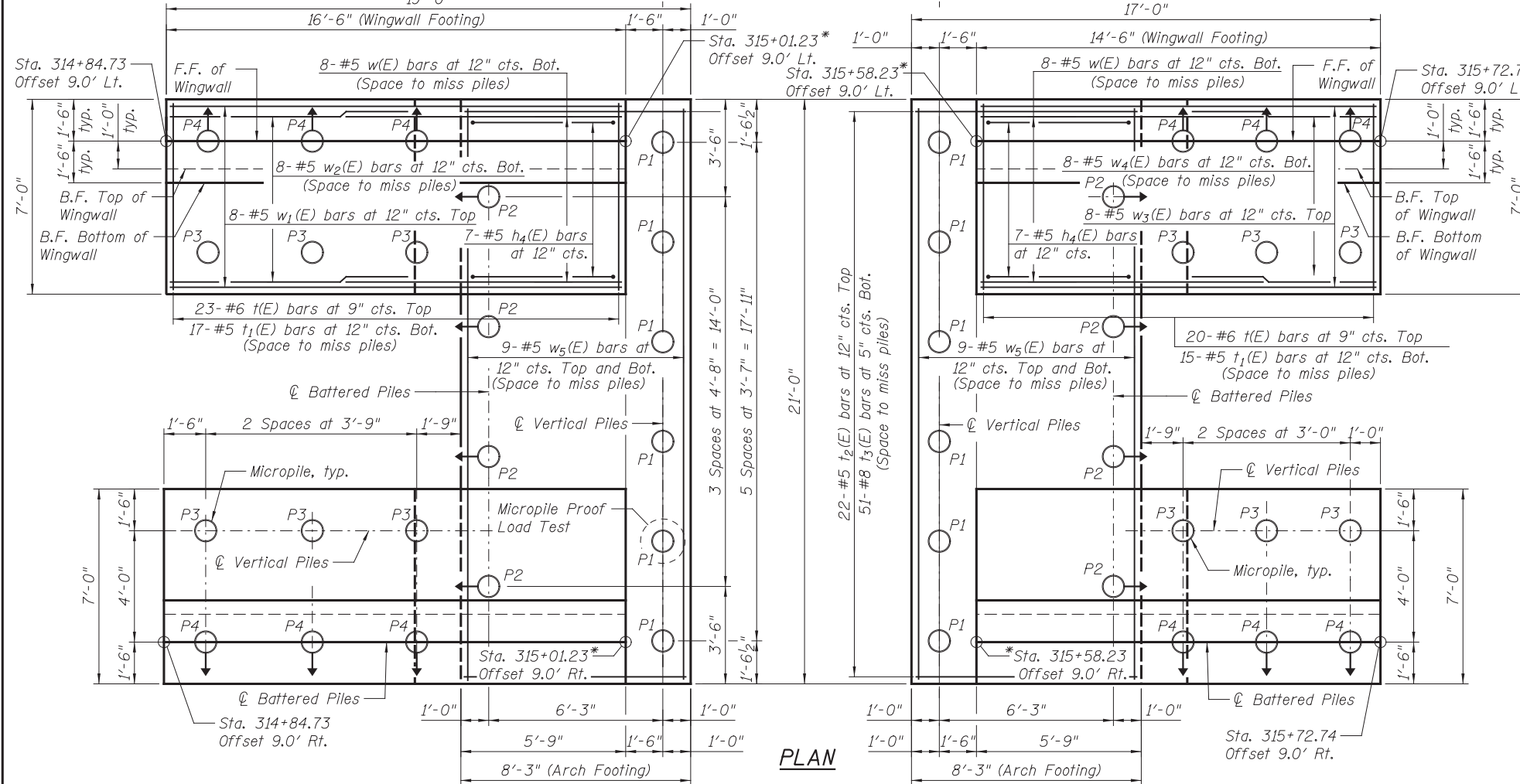
ILLINOIS FED. AID PROJECT



**UNDERDRAIN OUTLET DETAIL**



**ELEVATION**



**PLAN**

**MINIMUM BAR LAP**

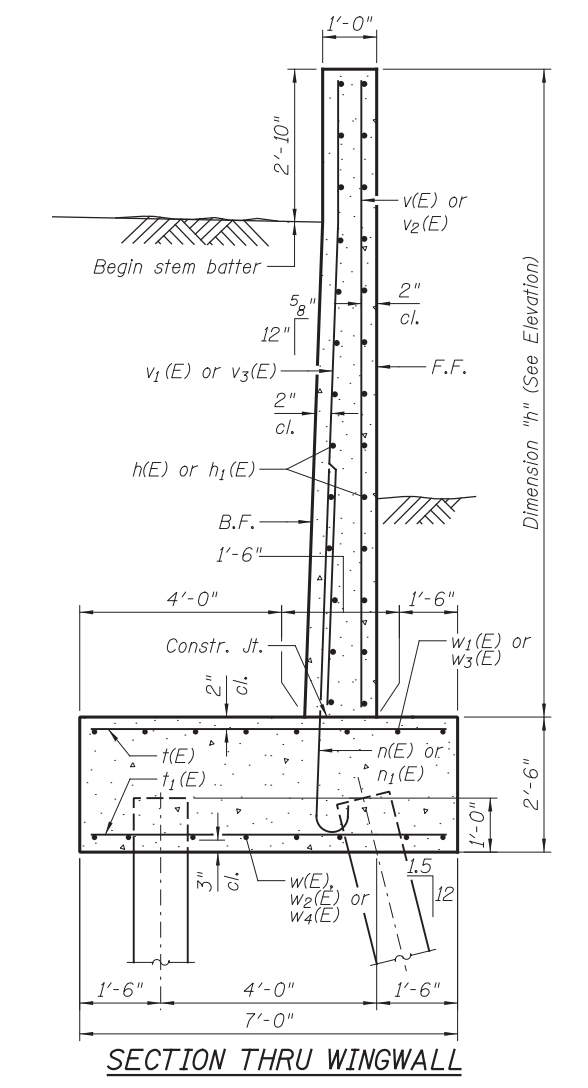
- #5 Bar = 3'-3"
- #6 Bar = 3'-10"

**NOTES**

1. North and South arch footing reinforcement and pile spacings are symmetrical.
2. East and West wingwall reinforcement and pile spacings are symmetrical.
3. See Sheet S-6 for Bill of Material, Bar Bending Diagrams, Wall Drainage Details and Detail A.
4. Stations and offsets are taken to the Front Face of the wingwalls.
5. See Sheet S-6 for Micropile Details and Schedule.

**LEGEND**

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



**SECTION THRU WINGWALL**



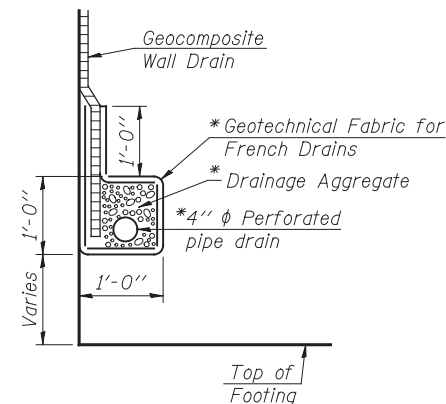
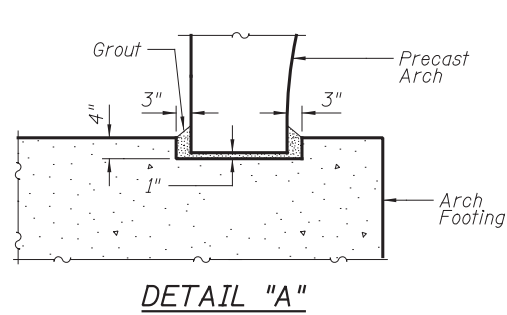
USER NAME =	DESIGNED - KMP	REVISIONS
PLOT SCALE =	CHECKED - AMK	REVISIONS
PLOT DATE =	DRAWN - KMP	REVISIONS
	CHECKED - AMK	REVISIONS

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WINGWALL AND FOOTING DETAILS 1  
STRUCTURE NO. 022-3046**

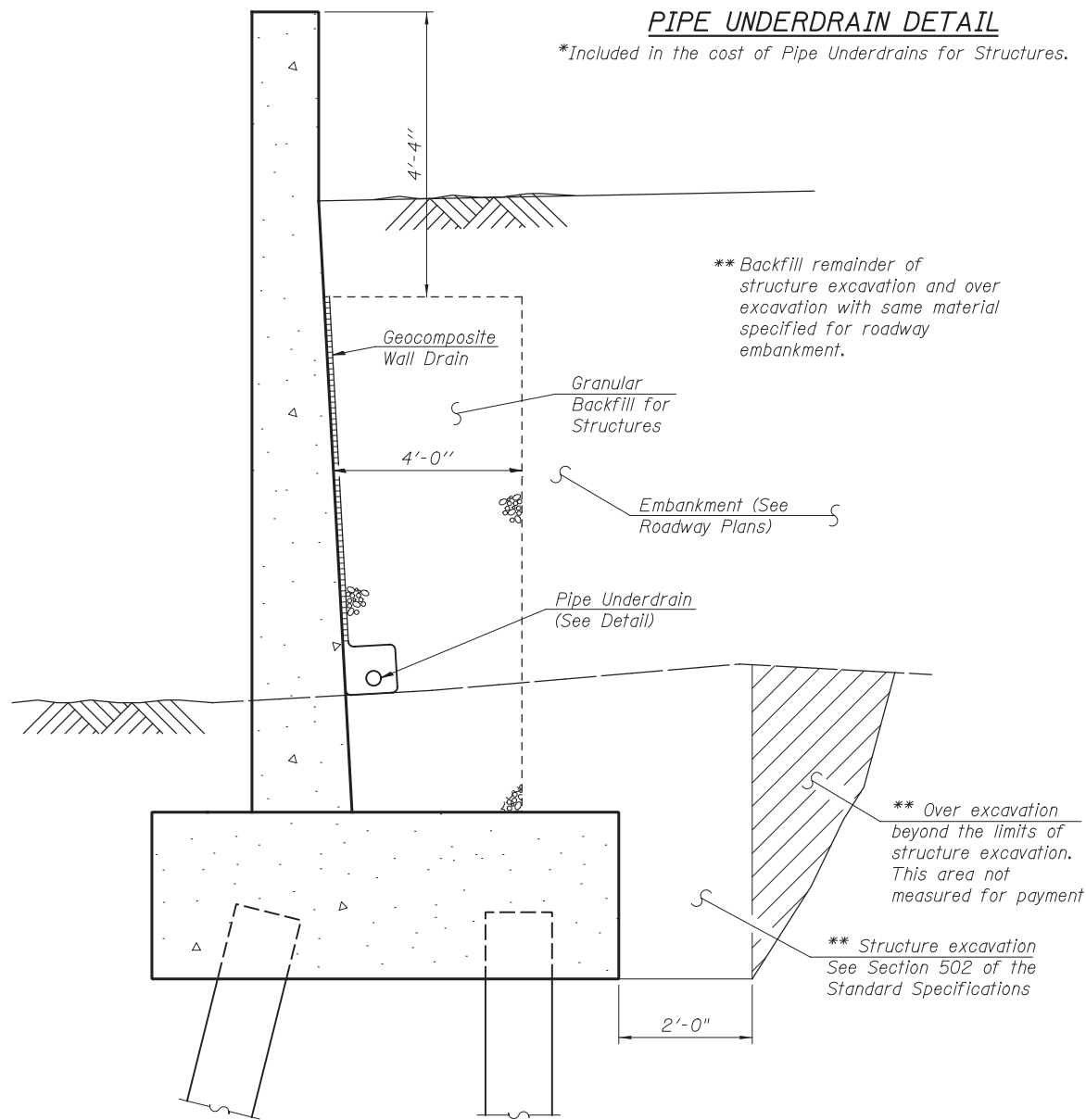
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DuPAGE	45	27
CONTRACT NO. 60T83				
ILLINOIS FED. AID PROJECT				

SHEET NO. S-5 OF S-8 SHEETS



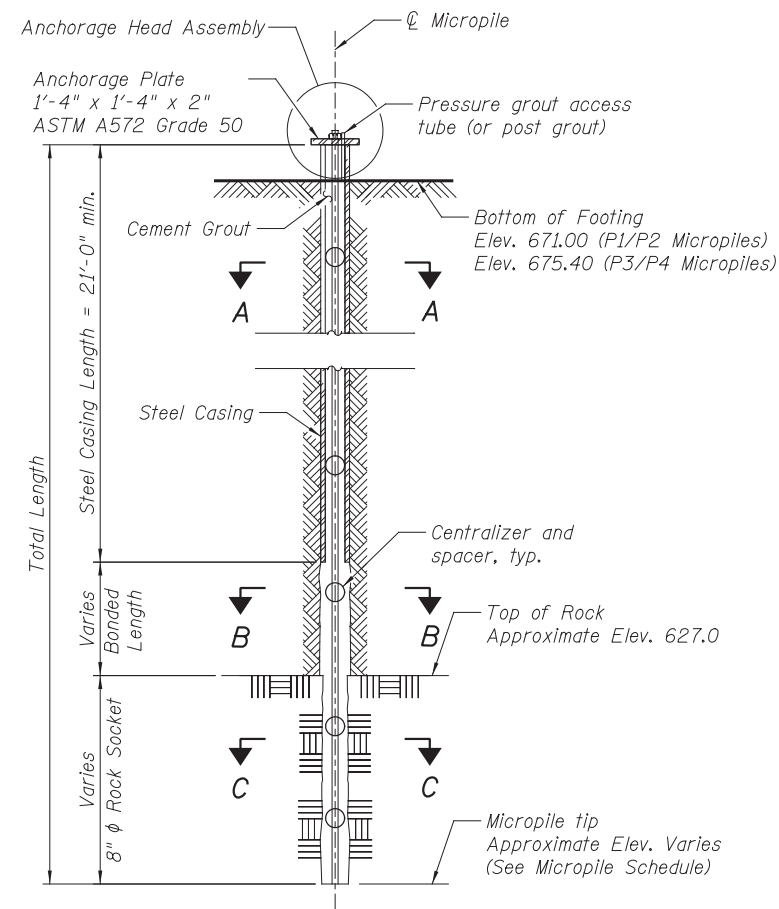
**PIPE UNDERDRAIN DETAIL**

\*Included in the cost of Pipe Underdrains for Structures.



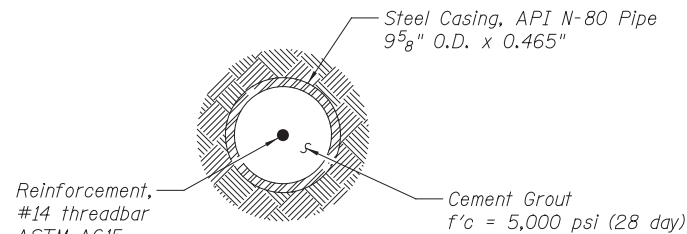
**WINGWALL DRAINAGE DETAIL**

Note:  
The pipe shall extend through the formed hole in the wingwall, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

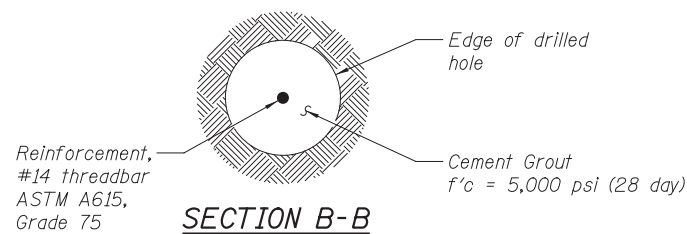


**MICROPILE DETAIL**

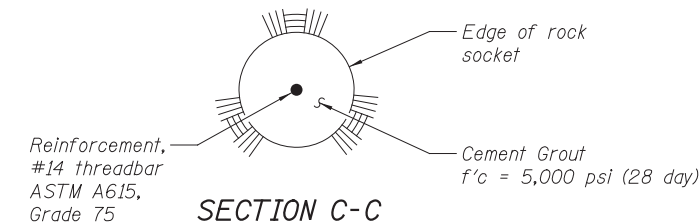
Straight pile shown, battered pile similar



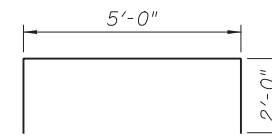
**SECTION A-A**



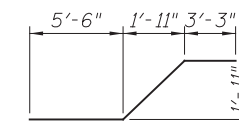
**SECTION B-B**



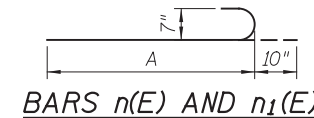
**SECTION C-C**



**BAR h4(E)**



**BAR w(E)**



Bar	A
n(E)	6'-1"
n1(E)	8'-3"

**BILL OF MATERIALS**

Bar	No.	Size	Length	Shape
h(E)	52	#5	16'-2"	—
h1(E)	52	#5	14'-2"	—
h2(E)	32	#5	1'-6"	—
h4(E)	28	#5	9'-0"	—
n(E)	60	#7	6'-11"	U
n1(E)	68	#7	9'-1"	U
t(E)	86	#6	6'-8"	—
t1(E)	64	#5	6'-8"	—
t2(E)	44	#5	7'-11"	—
t3(E)	102	#8	7'-11"	—
v(E)	34	#5	12'-1"	—
v1(E)	66	#6	12'-1"	—
v2(E)	30	#5	11'-4"	—
v3(E)	58	#6	11'-4"	—
w(E)	32	#5	11'-6"	—
w1(E)	16	#5	16'-2"	—
w2(E)	16	#5	8'-8"	—
w3(E)	16	#5	14'-2"	—
w4(E)	16	#5	6'-8"	—
w5(E)	36	#5	20'-8"	—
Structure Excavation		Cu. Yd.	297	
Concrete Structures		Cu. Yd.	118.5	
Reinforcement Bars, Epoxy Coated		Pound	12,790	
Micro-piles		Each	44	
Micropile Proof Load Test		Each	1	
Geocomposite Wall Drain		Sq. Yd.	54	
Granular Backfill for Structures		Cu. Yd.	71	
Pipe Underdrain for Structures, 4"		Foot	66	

**MICROPILE DESIGN STRESSES**

Fy = 80,000 psi (Casing)  
f'c = 5,000 psi (Grout)

**NOTES**

- All excess grout shall be contained and disposed of off-site. No grout shall enter the waterway.
- Casing splices shall be capable of developing at least 50% of the full moment capacity of the casing.

**MICROPILE SCHEDULE**

	P1	P2	P3	P4
No. Production Piles	each 12	8	12	12
Factored Compressive Load	kips 145	196	15	98
Factored Tensile Load	kips --	--	49	--
Estimated Tip Elevation of Steel Casing	ft 651.0	653.1	655.4	655.4
Min. Length of Steel Casing	ft 21	21	21	21
Estimated Bond Length	ft 24	29.2	20	28.8
Estimated Rock Socket Depth	ft 7.7	10.2	--	5.1
Estimated Total Length of Micropiles	ft 52.7	60.4	41	54.9



USER NAME =	DESIGNED - KMP	REVISED
	CHECKED - AMK	REVISED
PLOT SCALE =	DRAWN - KMP	REVISED
PLOT DATE =	CHECKED - AMK	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

WINGWALL AND FOOTING DETAILS 2  
STRUCTURE NO. 022-3046

SHEET NO. S-6 OF S-8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DuPAGE	45	28

CONTRACT NO. 60T83  
ILLINOIS FED. AID PROJECT



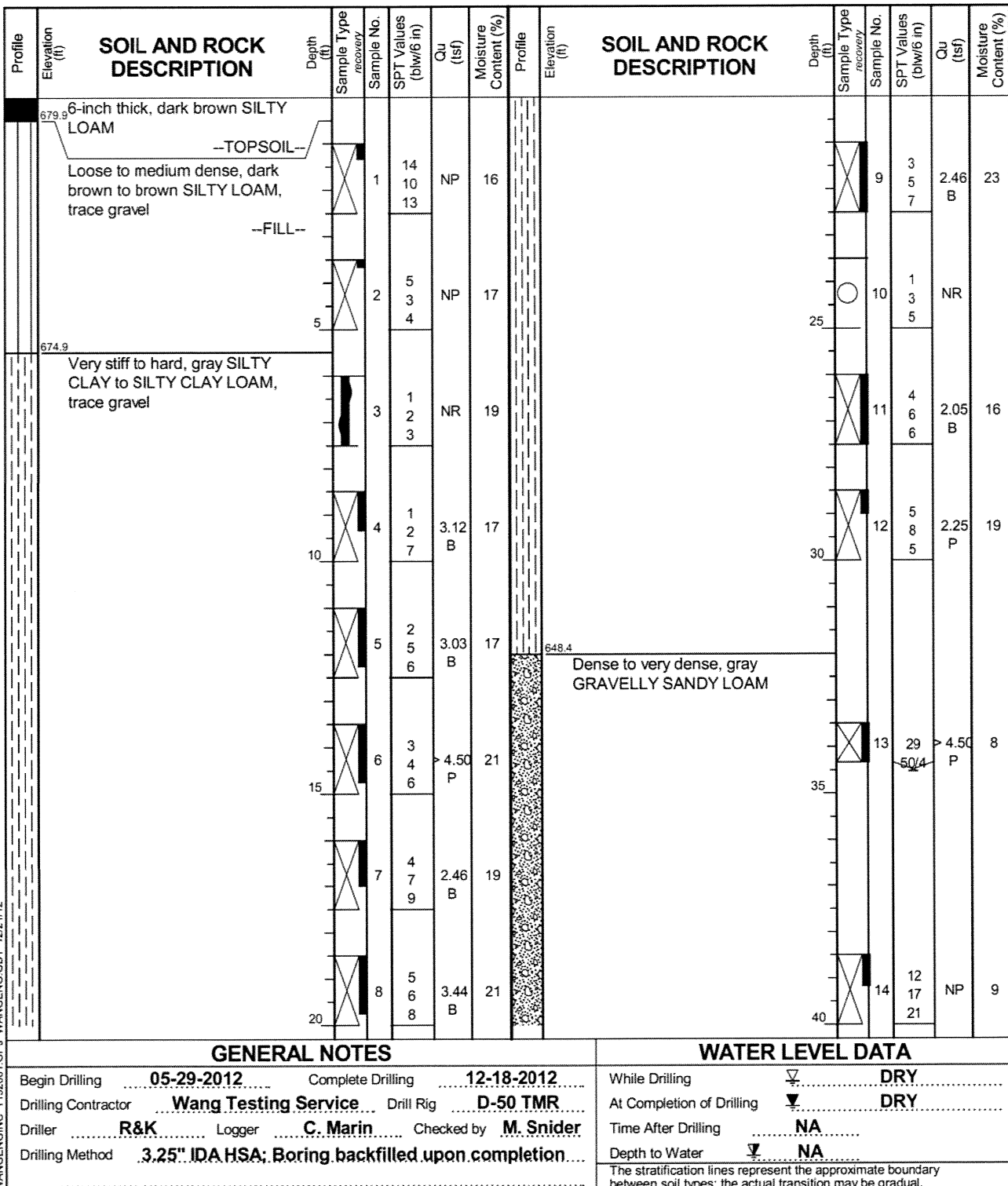
wangeng@wangeng.com  
1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

### BORING LOG CB-01

WEI Job No.: 119-20-01

Client: URS Corporation  
Project: US Rte 34 Grade Separation over the CNRR  
Location: SE 1/4 Section 29, T 38N, R 9E 3rd PM

Datum: NAV88  
Elevation: 680.38 ft  
North: 1852292.61 ft  
East: 1011435.47 ft  
Station: 315+64.74  
Offset: 00.21 RT



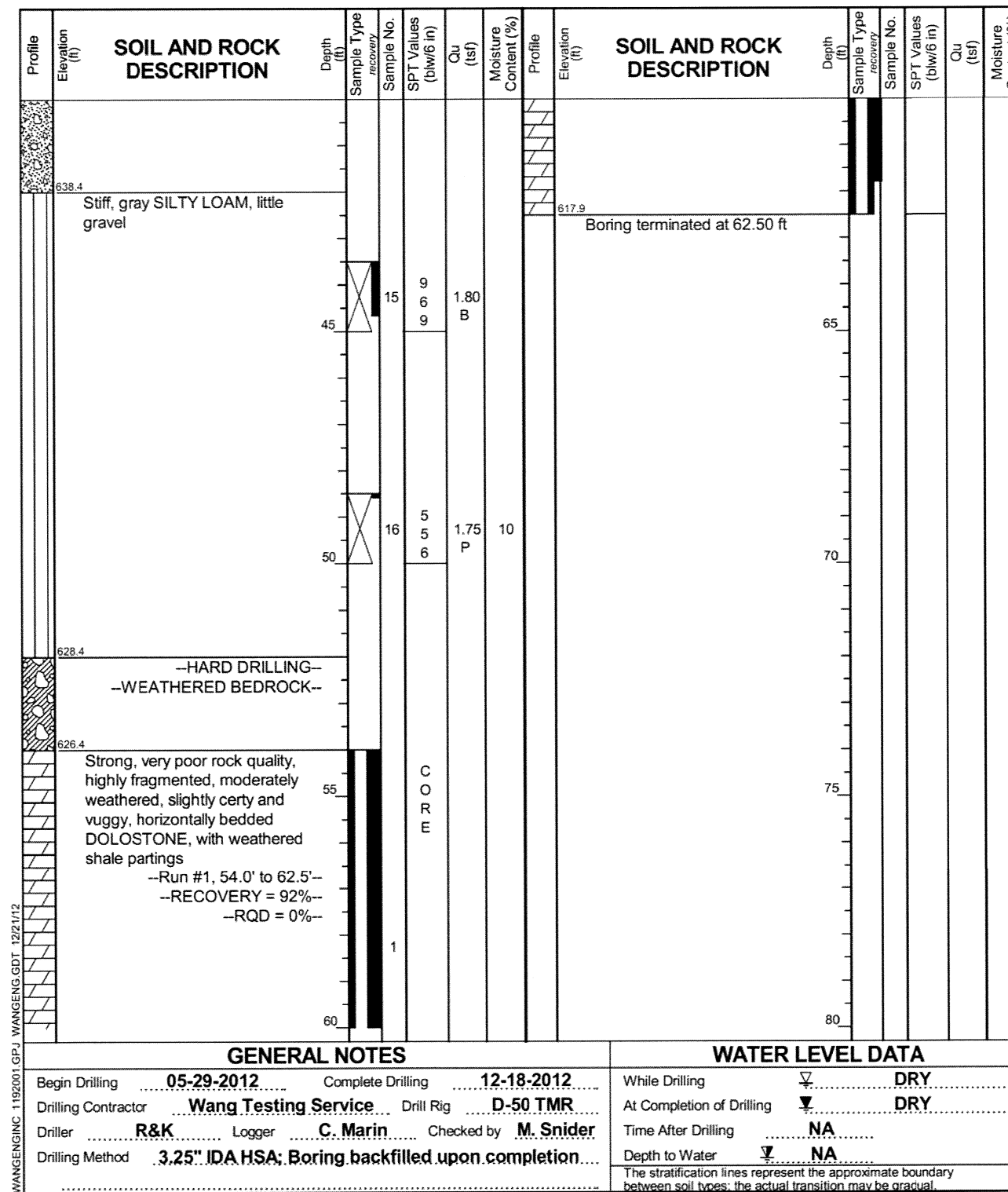
wangeng@wangeng.com  
1145 N Main Street  
Lombard, IL 60148  
Telephone: 630 953-9928  
Fax: 630 953-9938

### BORING LOG CB-01

WEI Job No.: 119-20-01

Client: URS Corporation  
Project: US Rte 34 Grade Separation over the CNRR  
Location: SE 1/4 Section 29, T 38N, R 9E 3rd PM

Datum: NAV88  
Elevation: 680.38 ft  
North: 1852292.61 ft  
East: 1011435.47 ft  
Station: 315+64.74  
Offset: 00.21 RT



USER NAME =	DESIGNED - KMP	REVISOR
PLOT SCALE =	CHECKED - AMK	REVISION
PLOT DATE =	DRAWN - KMP	REVISION
	CHECKED - AMK	REVISION

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS 1  
STRUCTURE NO. 022-3046

SHEET NO. S-7 OF S-8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-037I	DuPAGE	45	29
CONTRACT NO. 60T83			ILLINOIS FED. AID PROJECT	



# BORING LOG CB-02

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

WEI Job No.: 119-20-01  
 Client: **URS Corporation**  
 Project: **US Rte 34 Grade Separation over the CNRR**  
 Location: **SE 1/4 Section 29, T 38N, R 9E 3rd PM**

Datum: NAV88  
 Elevation: 680.51 ft  
 North: 1852220.43 ft  
 East: 1011435.35 ft  
 Station: 314+92.57  
 Offset: 00.69 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
680.0	6-inch thick dark brown SILTY LOAM --TOPSOIL-- Loose to medium dense, brown SILTY LOAM, some gravel --FILL--	0-5	1	5 6 6	NP	17		680.5		0-5	9	3 3 5	1.48 B	26	
675.0	Medium stiff to hard, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	5-10	2	2 3 3	NP	21		648.5	Medium dense to dense, brown to gray GRAVELLY SANDY LOAM	5-10	10	3 3 4	1.39 B	26	
		10-15	3	3 4 7	4.50 P	19				15-20	11	2 3 4	0.74 B	25	
		15-20	4	5 6 10	3.03 B	18				20-25	12	3 3 4	1.48 B	23	
		20-25	5	4 7 9	2.79 B	17				25-30	13	11 13 30	NP		
		25-30	6	3 4 6	2.25 P	17				30-35	14	12 14 13	NP	15	
		30-35	7	4 7 9	2.87 B	17				35-40					
		35-40	8	6 6 9	3.69 B	20									

### GENERAL NOTES

Begin Drilling **05-29-2012** Complete Drilling **05-29-2012**  
 Drilling Contractor **Wang Testing Service** Drill Rig **D-50 TMR**  
 Driller **R&K** Logger **C. Marin** Checked by **M. Snider**  
 Drilling Method **3.25" IDA HSA; Boring backfilled upon completion**

### WATER LEVEL DATA

While Drilling  **DRY**  
 At Completion of Drilling  **DRY**  
 Time After Drilling **NA**  
 Depth to Water  **NA**

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



# BORING LOG CB-02

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

WEI Job No.: 119-20-01  
 Client: **URS Corporation**  
 Project: **US Rte 34 Grade Separation over the CNRR**  
 Location: **SE 1/4 Section 29, T 38N, R 9E 3rd PM**

Datum: NAV88  
 Elevation: 680.51 ft  
 North: 1852220.43 ft  
 East: 1011435.35 ft  
 Station: 314+92.57  
 Offset: 00.69 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
638.5	Hard, gray GRAVELLY SILTY LOAM	0-45	15	13 11 11	4.18 B	10		618.0	Boring terminated at 30.00 ft	0-30					
629.5	--HARD DRILLING-- --WEATHERED BEDROCK--	45-50	16	9 7 8	NA	12				30-55					
628.0	Strong, very poor rock quality, highly fragmented, moderately weathered, slightly certy and vuggy, horizontally bedded DOLOSTONE, with weathered shale partings --Run #1, 52.5' to 62.5'-- --RECOVERY = 100%-- --RQD = 15%--	55-60	1							55-60					

### GENERAL NOTES

Begin Drilling **05-29-2012** Complete Drilling **05-29-2012**  
 Drilling Contractor **Wang Testing Service** Drill Rig **D-50 TMR**  
 Driller **R&K** Logger **C. Marin** Checked by **M. Snider**  
 Drilling Method **3.25" IDA HSA; Boring backfilled upon completion**

### WATER LEVEL DATA

While Drilling  **DRY**  
 At Completion of Drilling  **DRY**  
 Time After Drilling **NA**  
 Depth to Water  **NA**

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



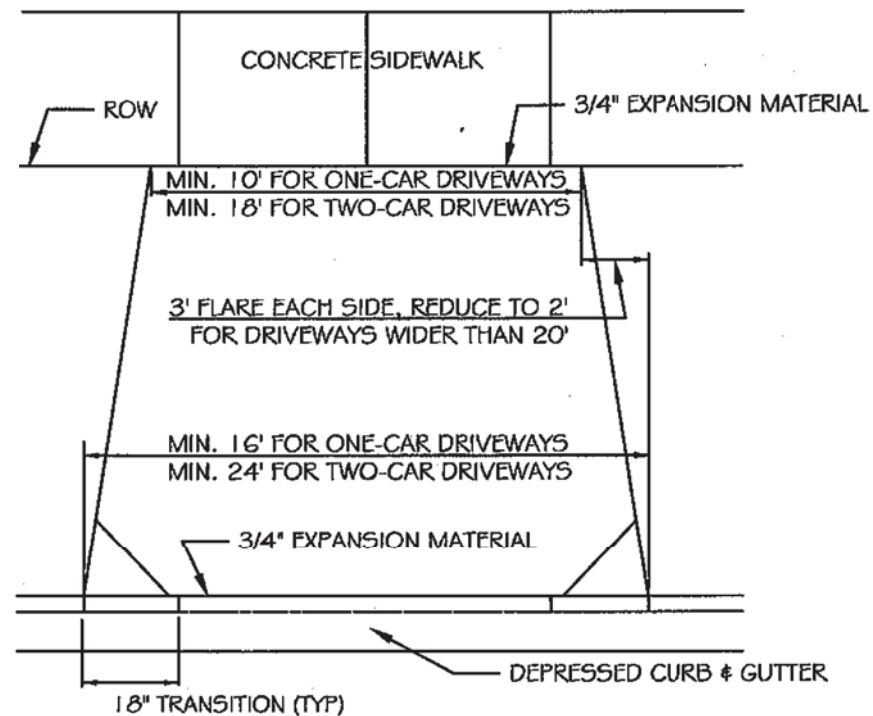
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SOIL BORINGS 2  
 STRUCTURE NO. 022-3046

SHEET NO. S-8 OF S-8 SHEETS

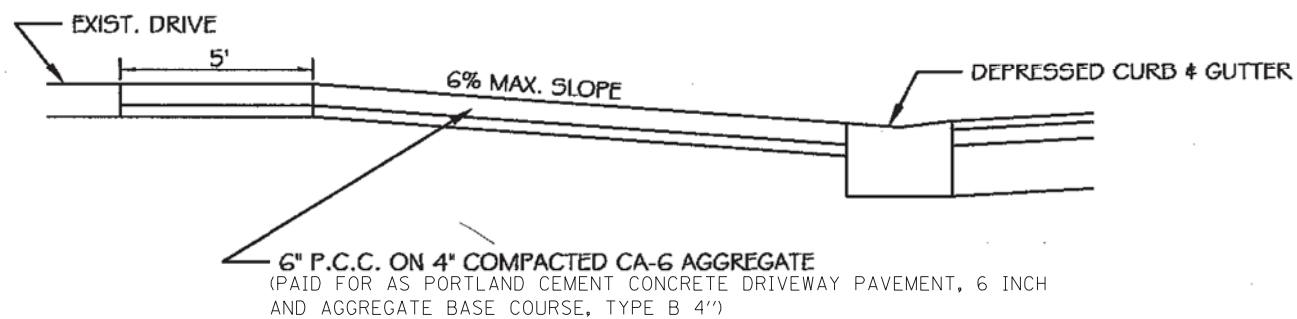
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DuPAGE	45	30
			CONTRACT NO. 60T83	
ILLINOIS FED. AID PROJECT				



PLAN VIEW

NOTES:

1. IN CITY OF AURORA ESTABLISHED HISTORIC DISTRICTS, DRIVEWAY DIMENSIONS SHALL BE ADJUSTED TO CONFORM TO THE APPROVED STANDARDS.
2. CONTRACTION JOINT DEPTH SHALL BE 1 - 1/4" MIN.
3. CONTRACTION JOINTS SHALL DIVIDE THE APRON INTO SLABS APPROXIMATELY SQUARE WITH NO SIDE LONGER THAN 8'.



PROFILE VIEW



REVISIONS

DATE:	BY:
01/2013	DG

RESIDENTIAL DRIVE APPROACH

SCALE:	CHECKED:	DRAWING NUMBER
NOT TO SCALE	DF	EXHIBIT II-C-7
DATE:	DRAWN:	
1/04	NM	

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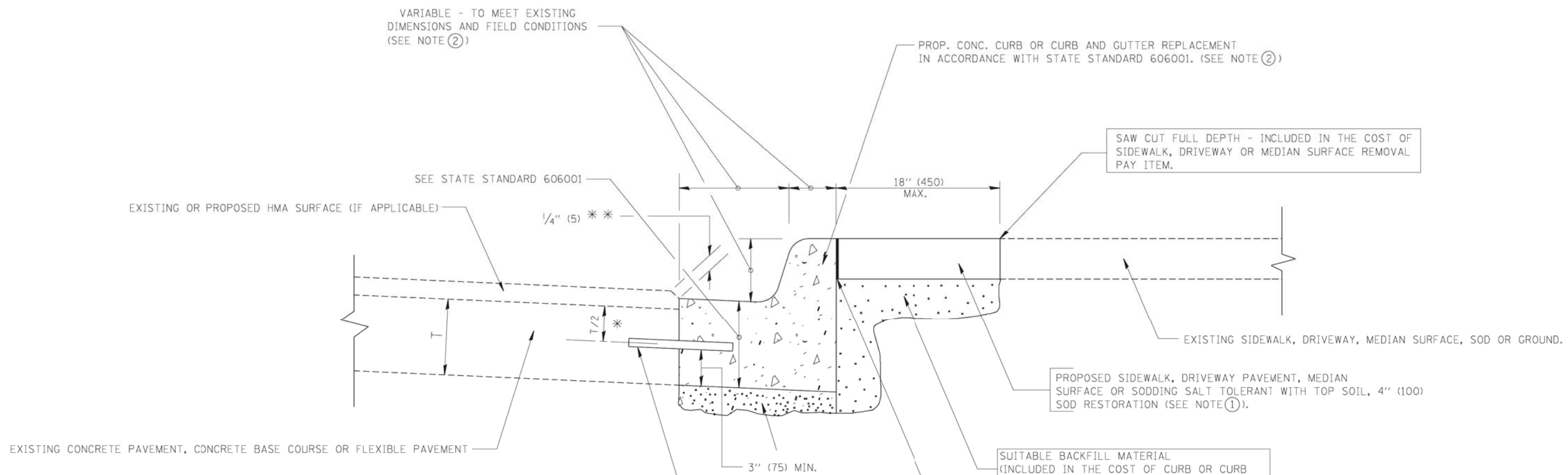
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	DATE - 5/13/2013	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAIL

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DUPAGE	45	31
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60T83	



- \* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
  - \* \* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.
- NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
- SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.
- ② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED
- ③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- ⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- ⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

- PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)
- UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.
- REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

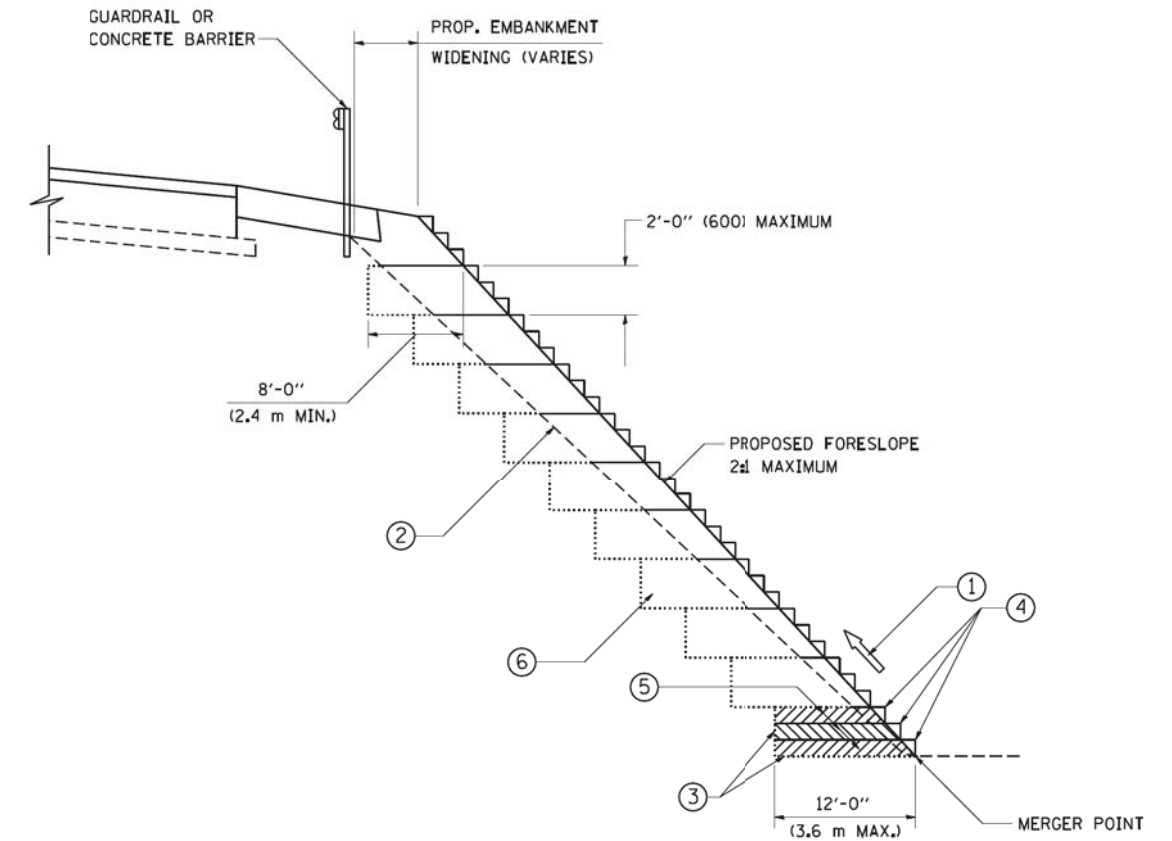
**BASIS OF PAYMENT:**  
 THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = drivakosgn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT</b>	F.A.P. RTE. 311	SECTION 2012-0371	COUNTY DUPAGE	TOTAL SHEETS 45	SHEET NO. 32		
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PLOT DATE = 12/15/2009	DATE = 03-11-94	REVISED - R. BORO 12-15-09				FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT						





**TYPICAL BENCHING DETAIL  
FOR EMBANKMENT**

**NOTES:**

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE SHOWN.

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		DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

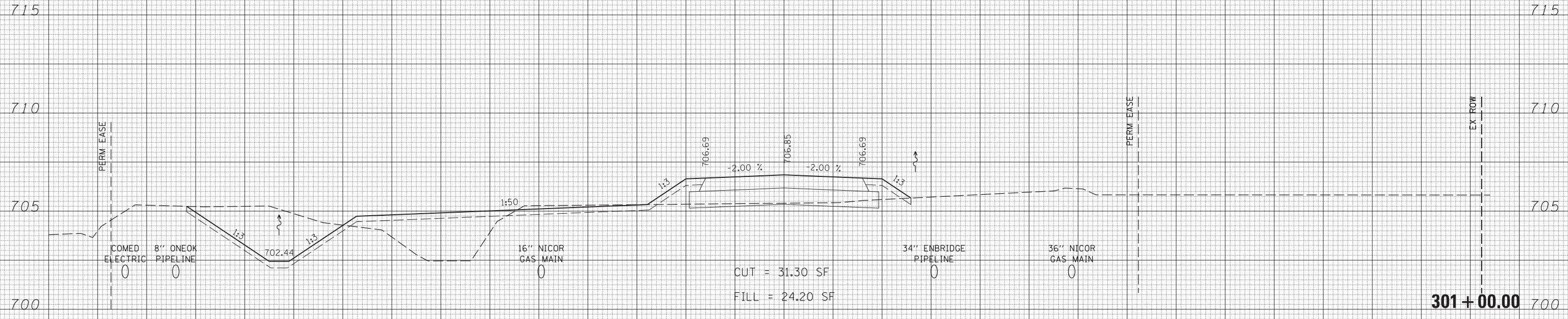
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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<b>BD-51</b>			<b>CONTRACT NO. 60T83</b>	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

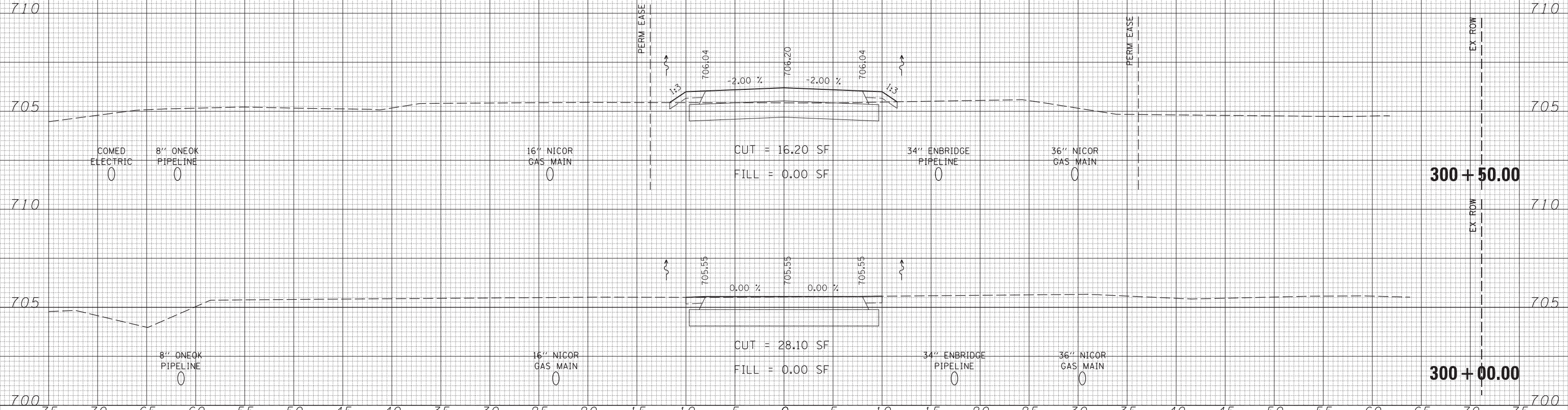
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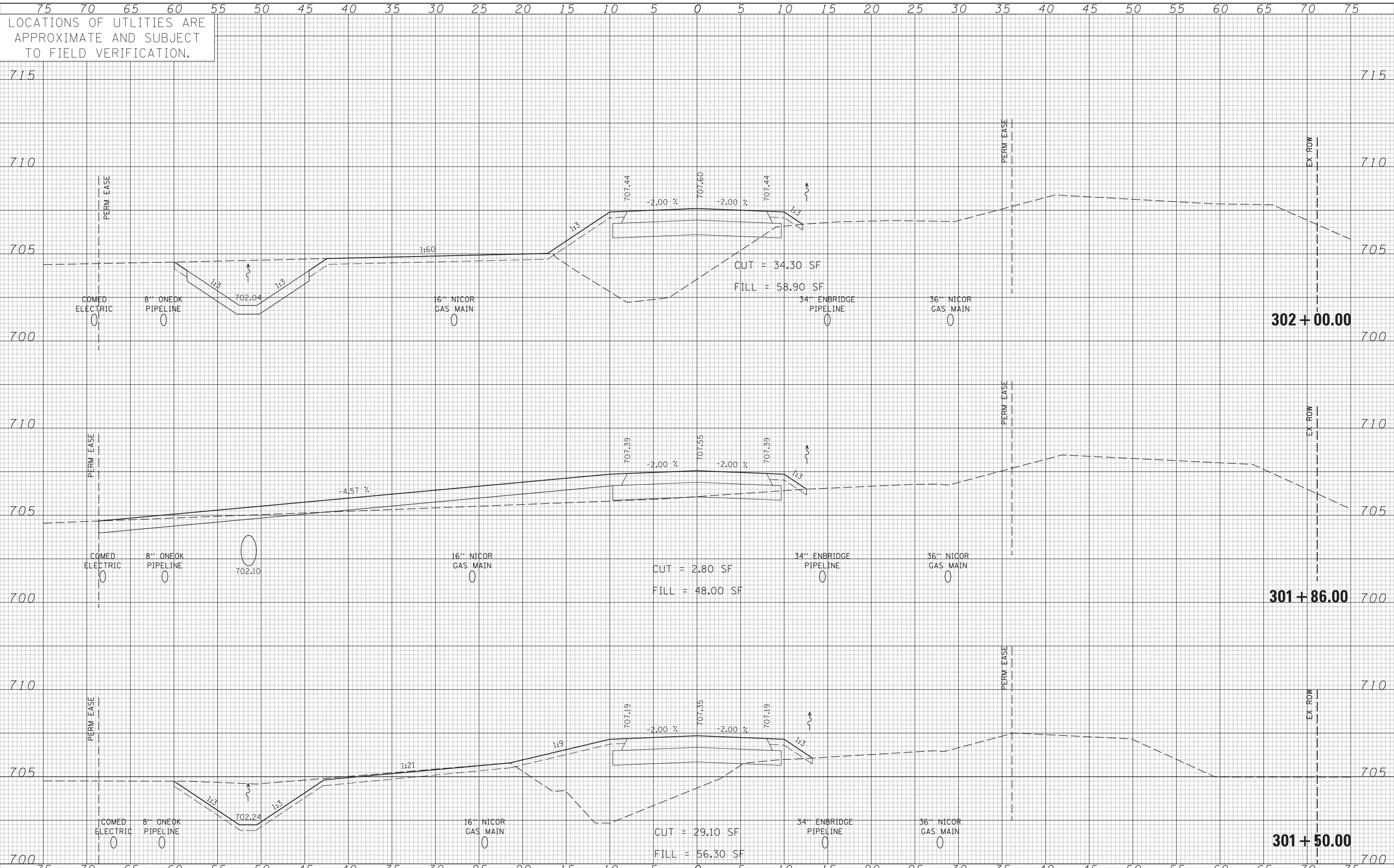
LOCATIONS OF UTILITIES ARE APPROXIMATE AND SUBJECT TO FIELD VERIFICATION.

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DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK AREAS CHECKED	
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SURVEYED	
PLOTTED	
TEMPLATE	
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NOTE BOOK	
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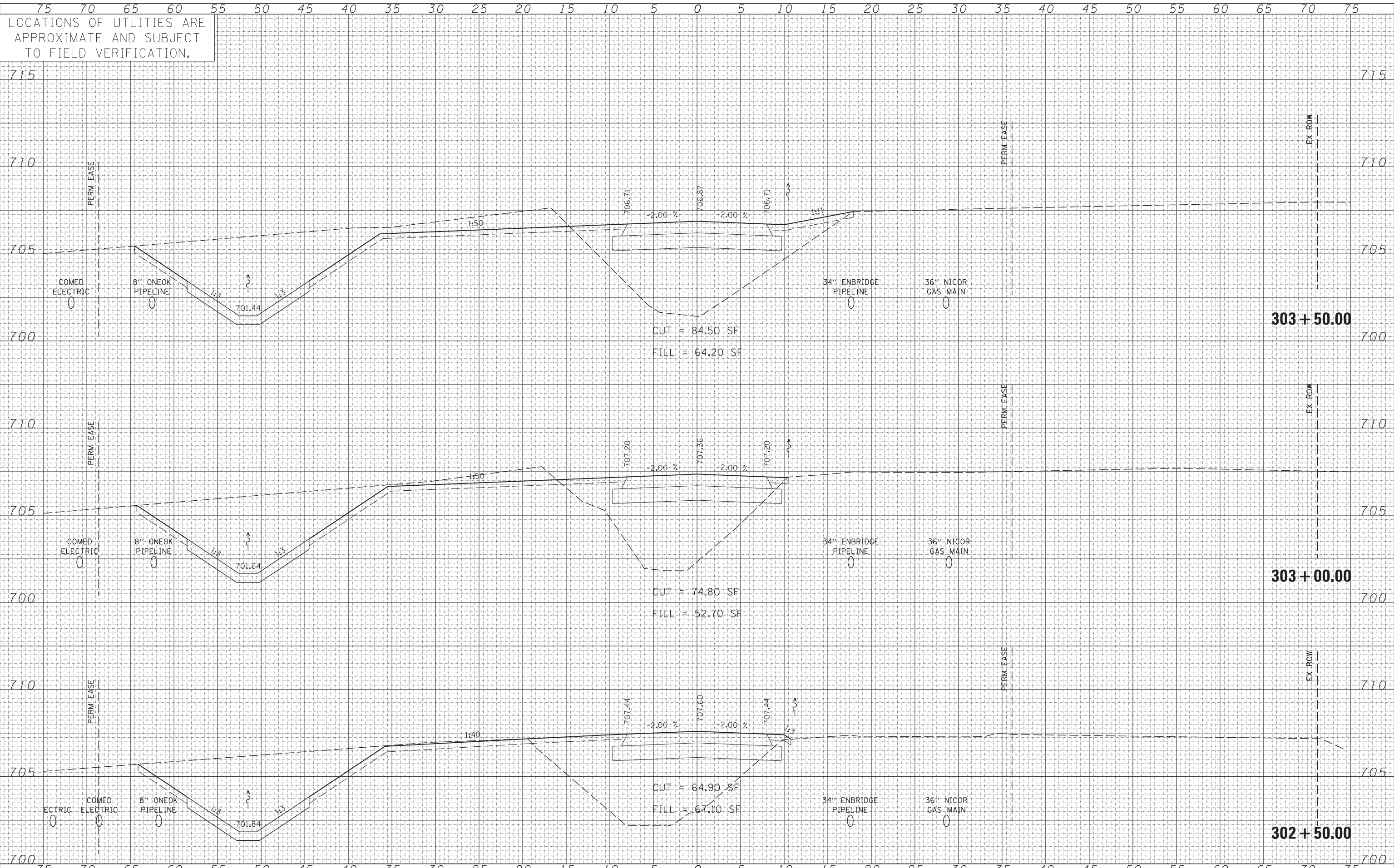
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
COMED ACCESS ROAD**

SCALE: SHEET NO. 2 OF 12 SHEETS STA. 301+50.00 TO STA. 302+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 60T83	
ILLINOIS FED. AID PROJECT				



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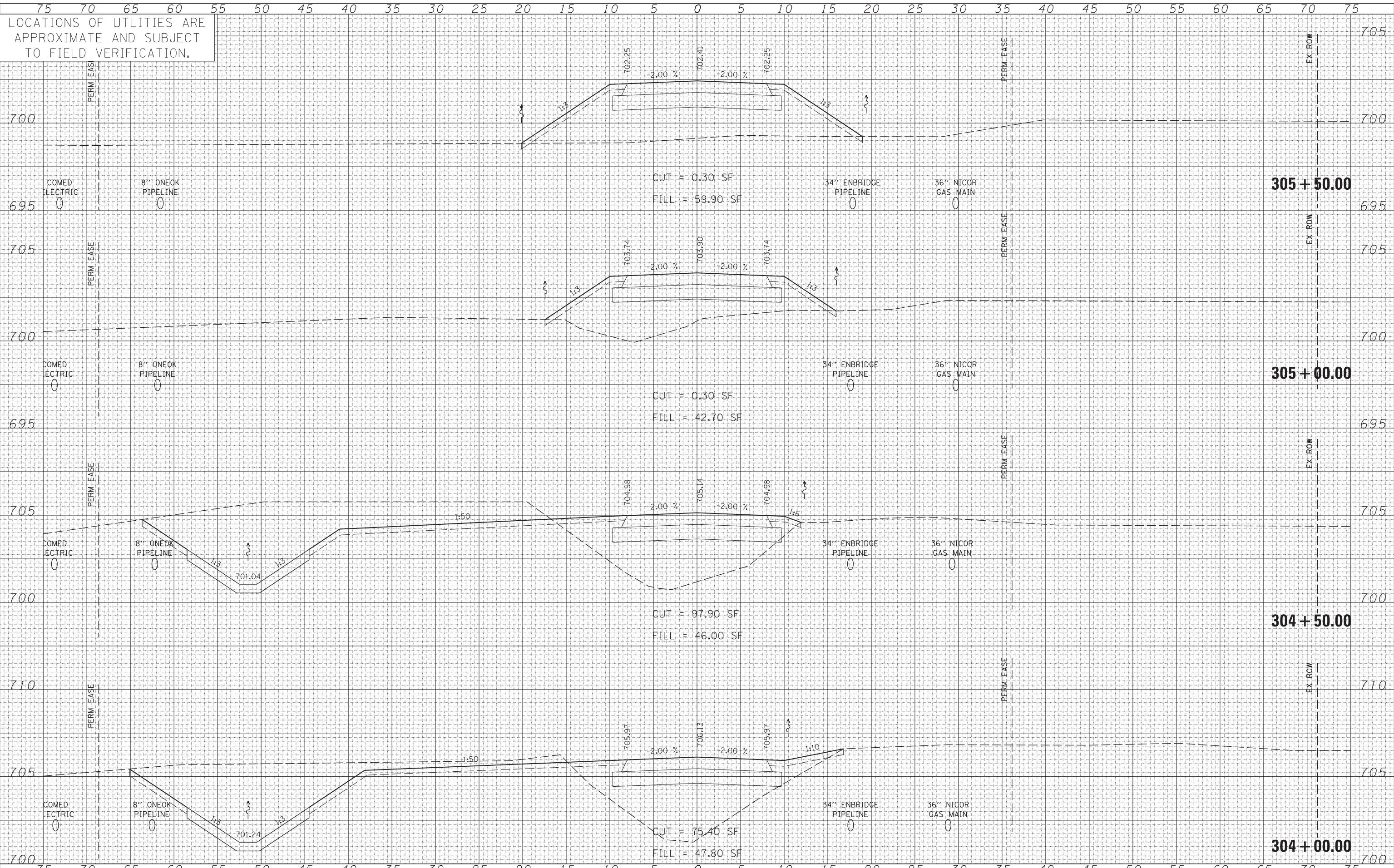
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
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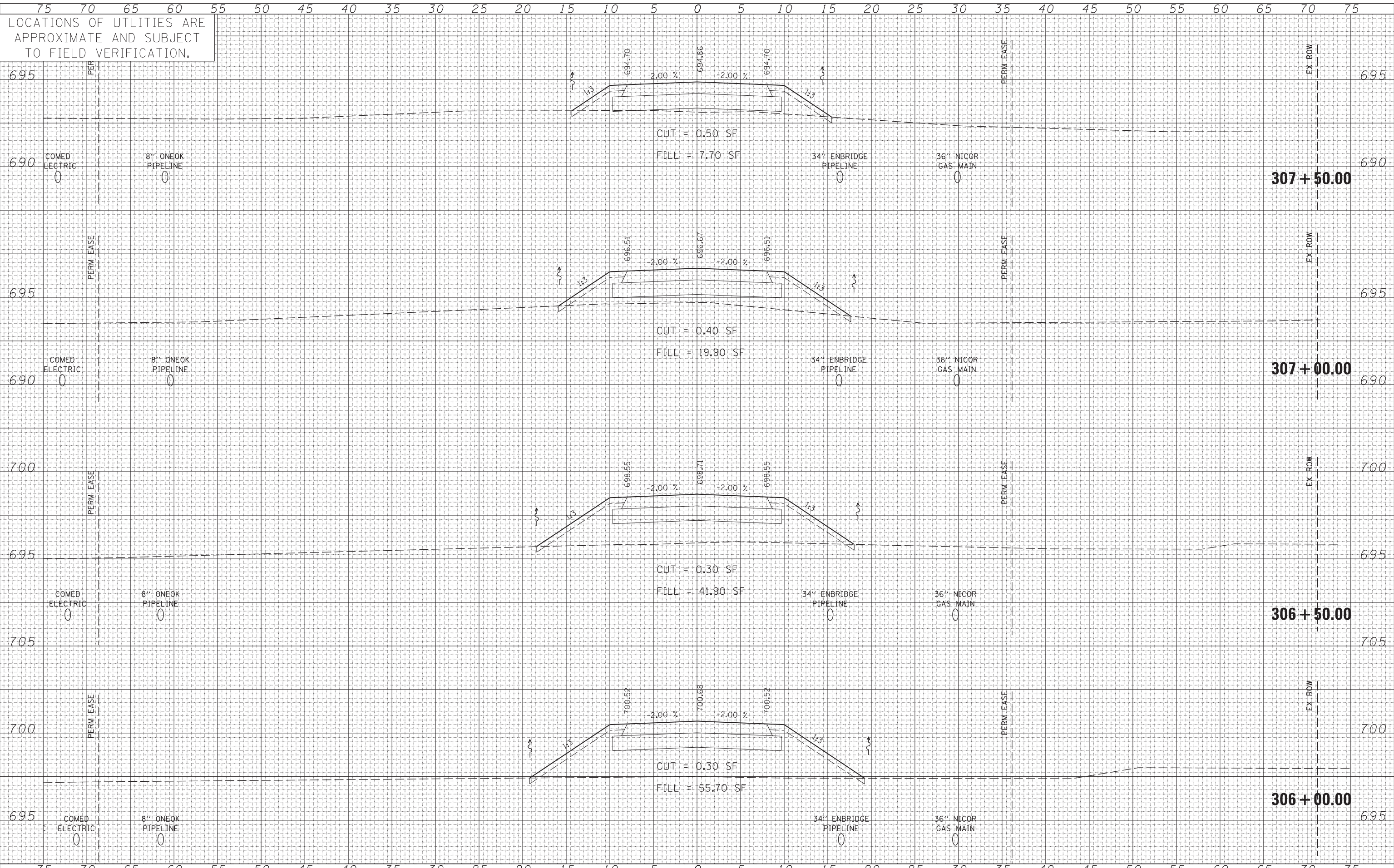
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CONTRACT NO. 60T83			ILLINOIS FED. AID PROJECT	



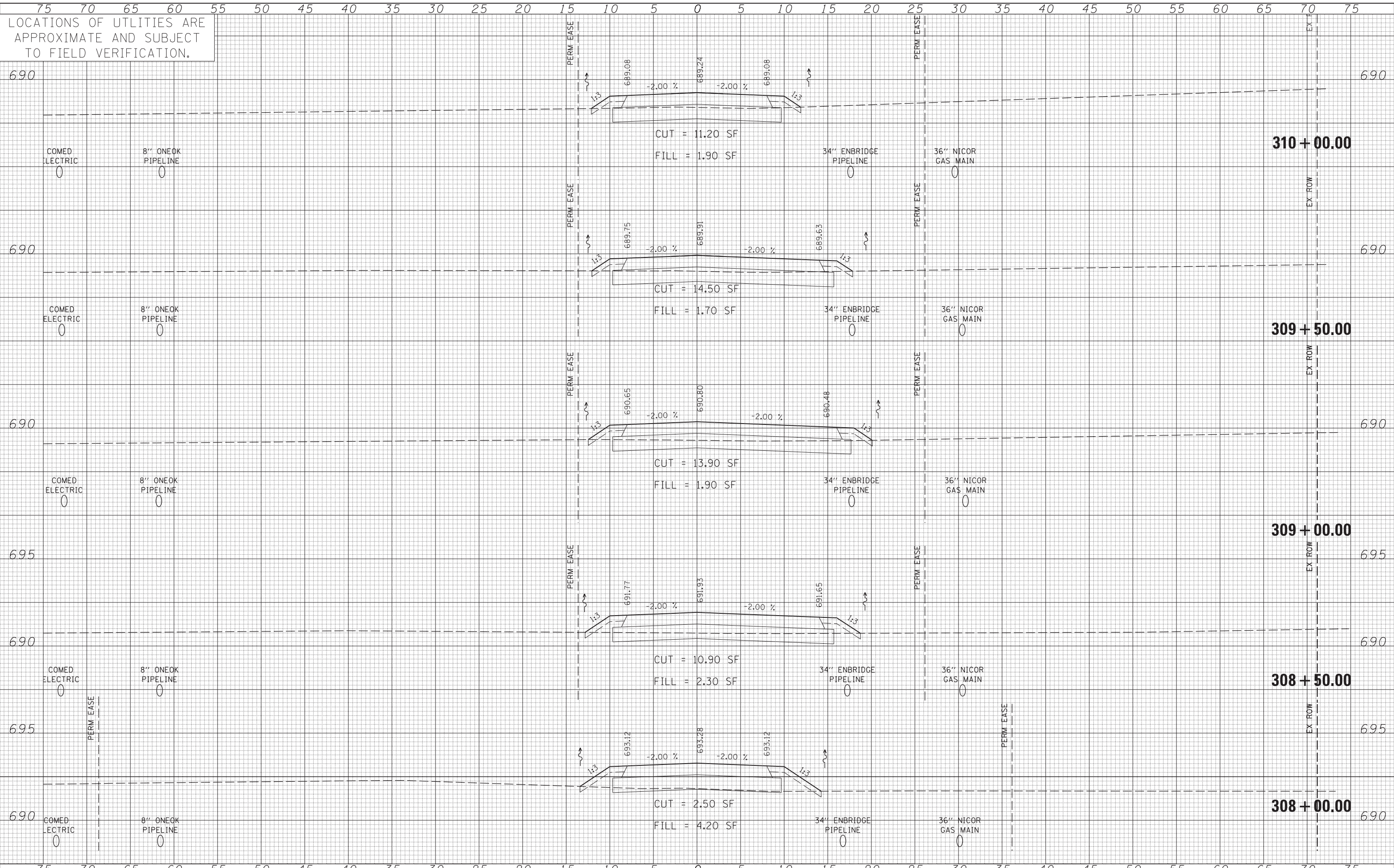
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DATE	
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ORIGINAL SURVEY	
NOTE	
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DATE	
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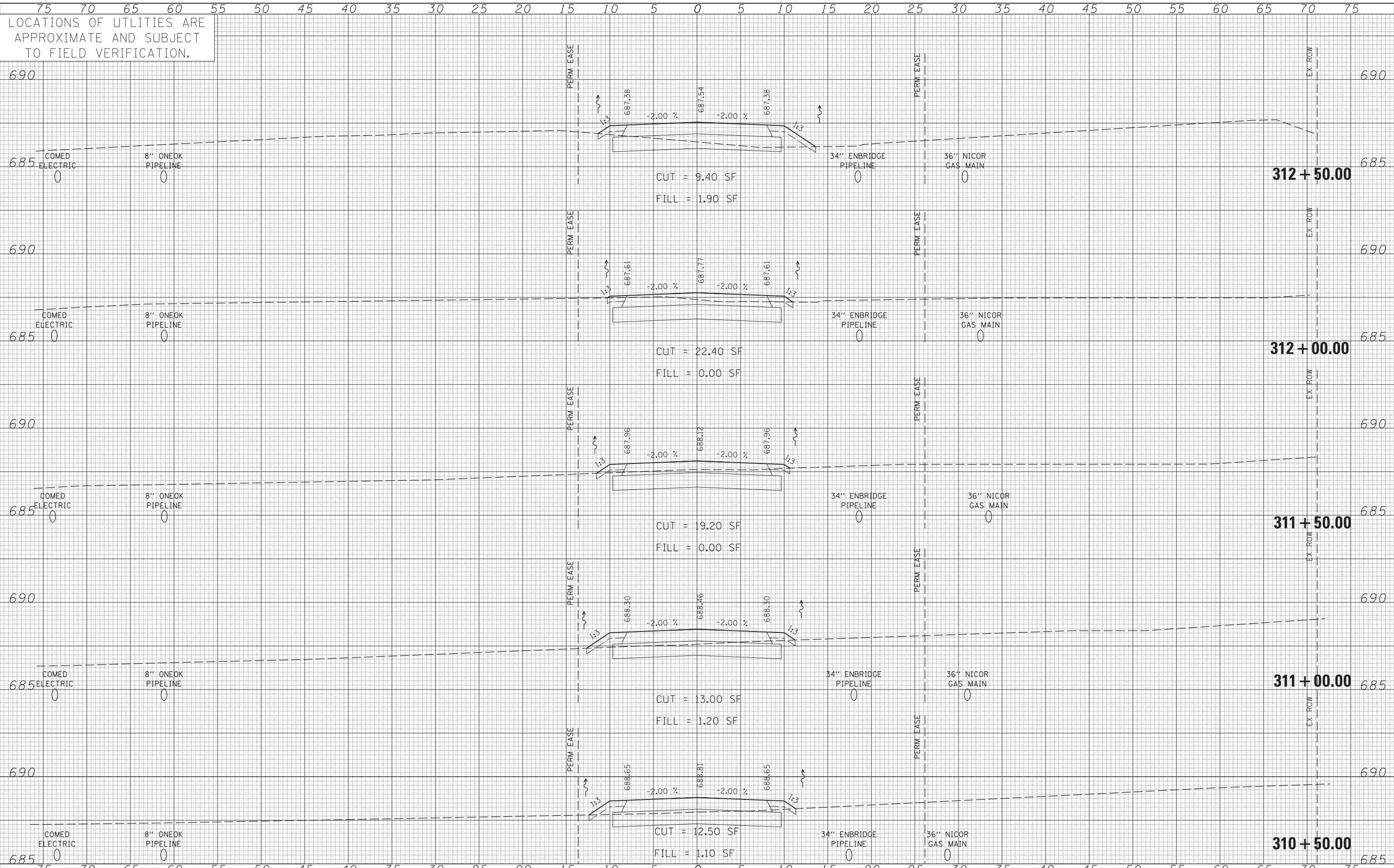
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NOTE BOOK	AREAS CHECKED
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SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
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PLOT DATE = 5/13/2013	DATE - 7/9/2012	REVISIED -	ILLINOIS FED. AID PROJECT							



LOCATIONS OF UTILITIES ARE APPROXIMATE AND SUBJECT TO FIELD VERIFICATION.

DATE	
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SURVEYED	
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TEMPLATE	
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AREAS CHECKED	
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DATE	
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TEMPLATE	
AREAS	
AREAS CHECKED	
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USER NAME = michal\_bertusiewicz  
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 CHECKED - SPF  
 DATE - 7/9/2012

REVISED -  
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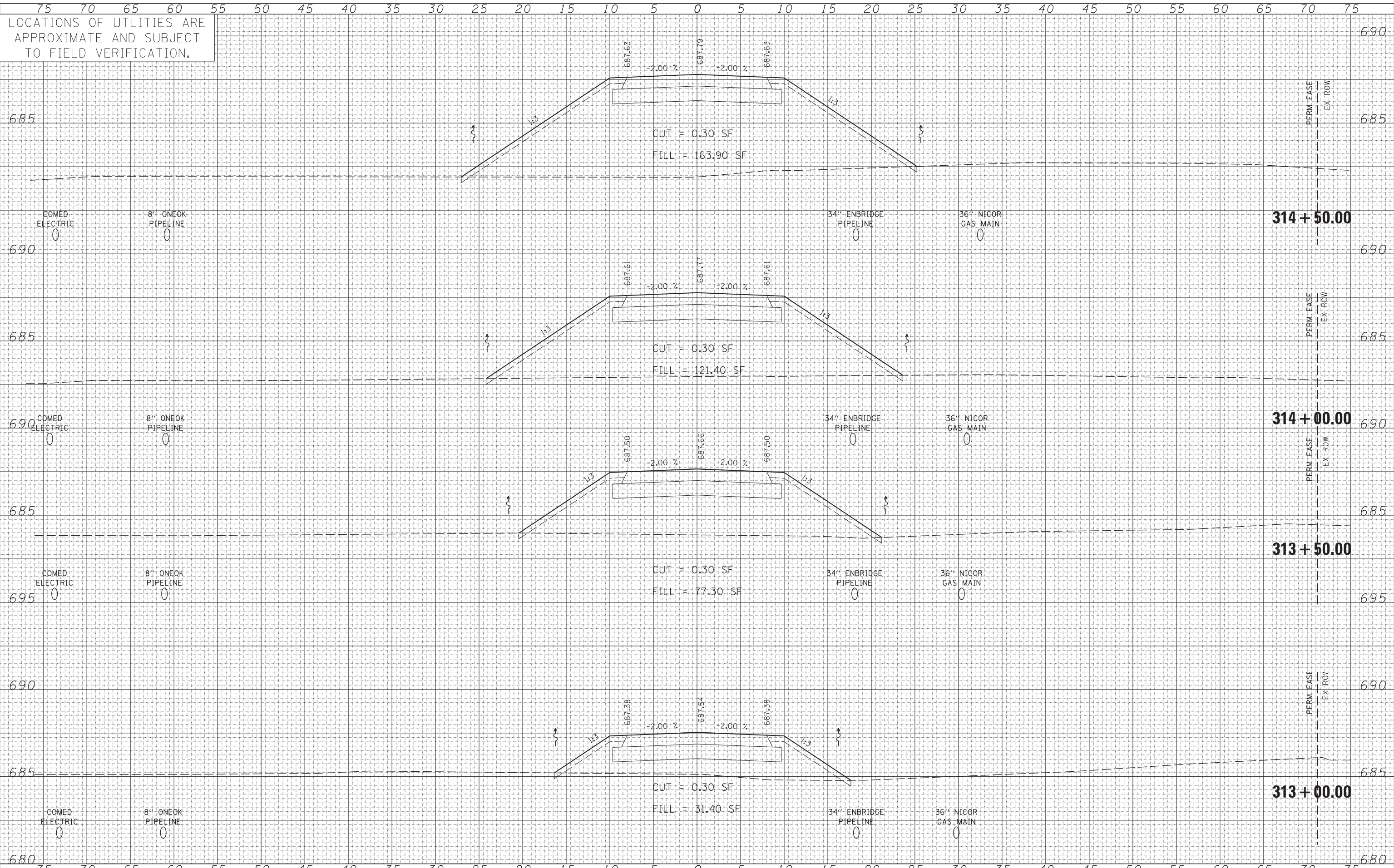
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 COMED ACCESS ROAD

SCALE: SHEET NO. 7 OF 12 SHEETS STA. 310+50.00 TO STA. 312+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 60T83	
ILLINOIS FED. AID PROJECT				

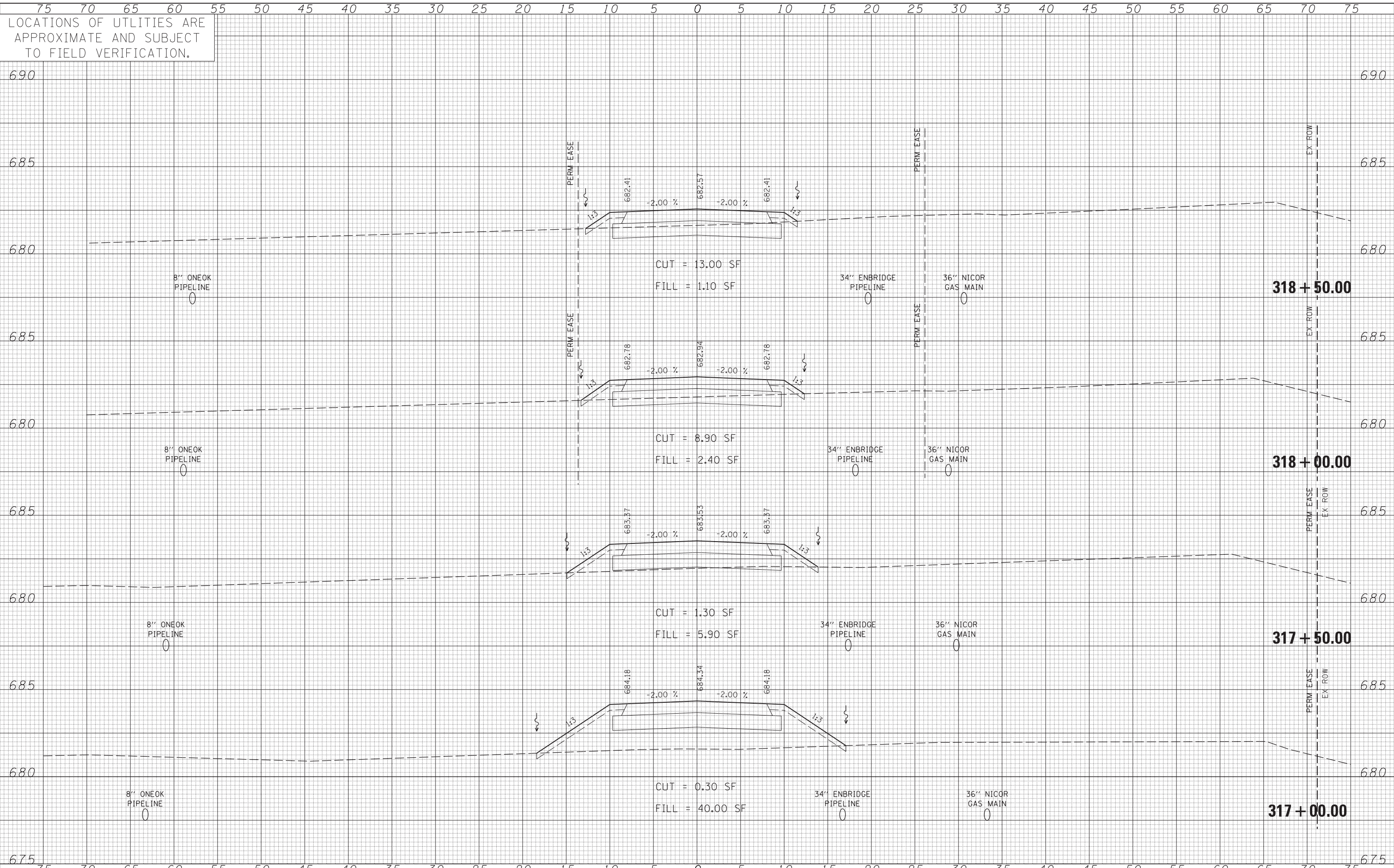




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DATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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DATE	
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		DATE - 7/9/2012	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
COMED ACCESS ROAD**

SCALE: SHEET NO. 10 OF 12 SHEETS STA. 317+00.00 TO STA. 318+50.00

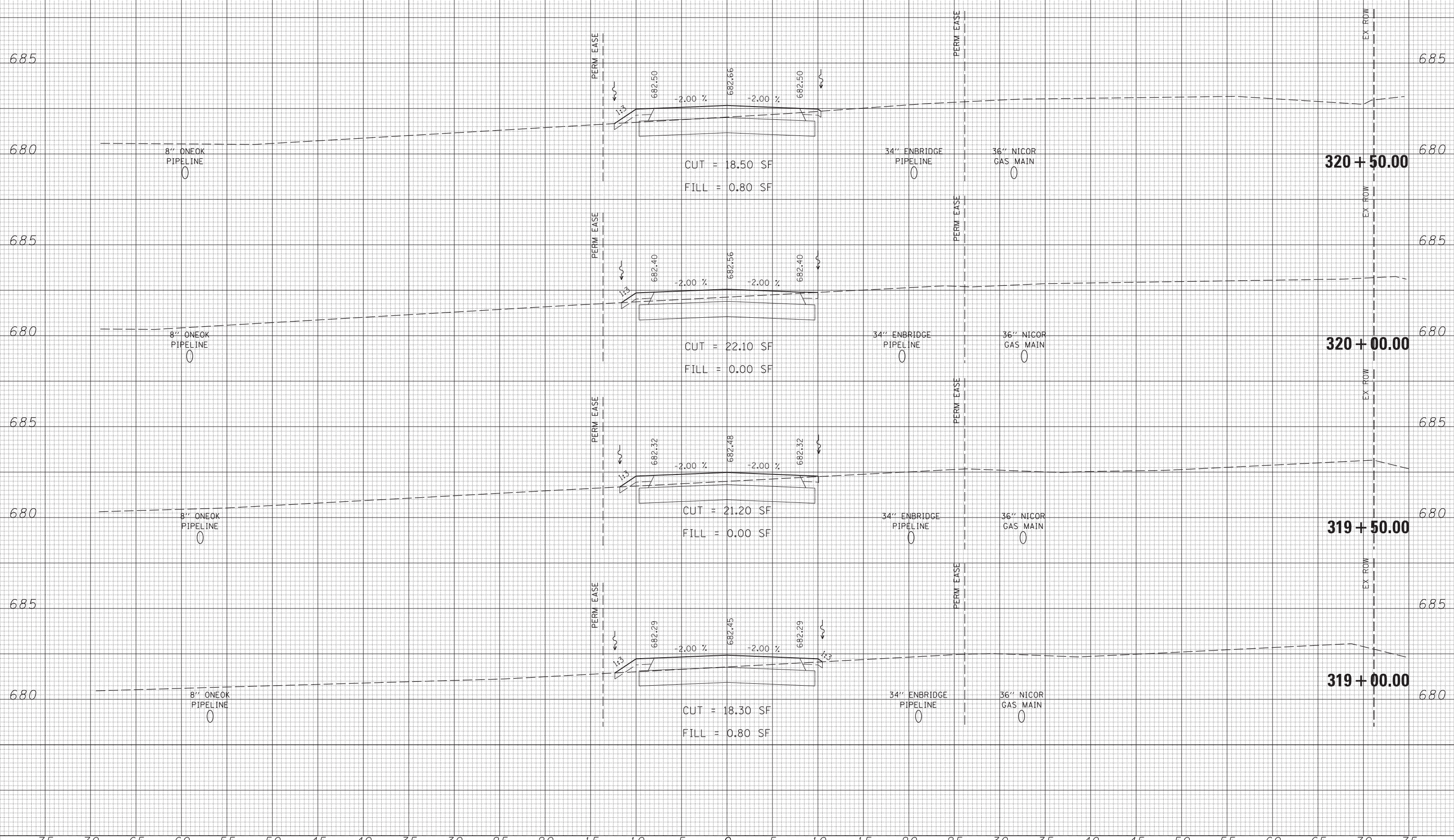
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311	2012-0371	DUPAGE	45	43
			CONTRACT NO. 60T83	
ILLINOIS FED. AID PROJECT				

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LOCATIONS OF UTILITIES ARE APPROXIMATE AND SUBJECT TO FIELD VERIFICATION.

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DATE	
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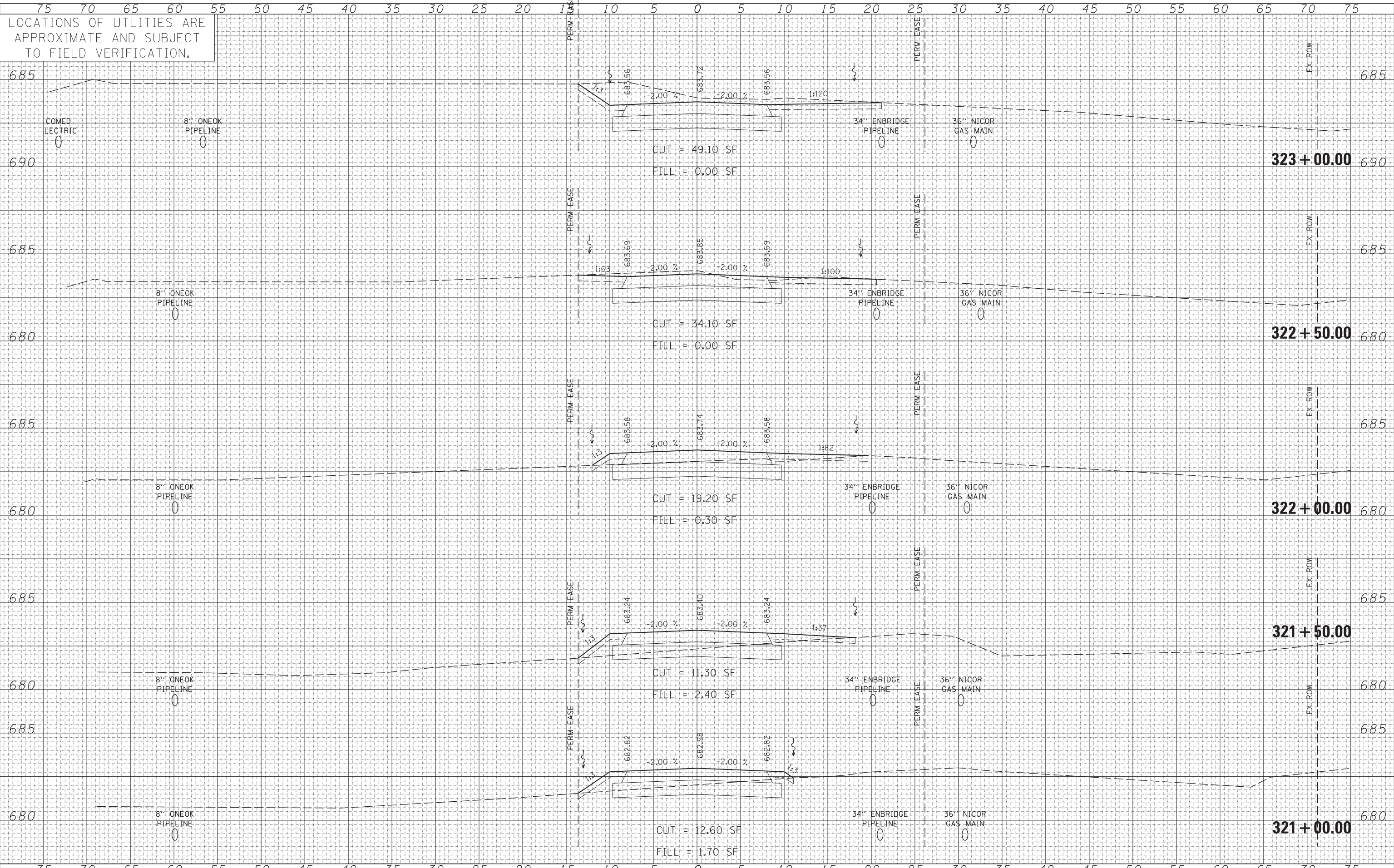
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REVISIED -  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 COMED ACCESS ROAD  
 SCALE: SHEET NO. 11 OF 12 SHEETS STA. 319+00.00 TO STA. 320+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	2012-0371	DUPAGE	45	44
CONTRACT NO. 60T83			ILLINOIS FED. AID PROJECT	



DATE	
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PLOT SCALE = 5.0000' / in.	CHECKED - SPF	DATE - 7/9/2012	REVISOR -
PLOT DATE = 5/13/2013			

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE:	SHEET NO. 12 OF 12 SHEETS	STA. 321+00.00 TO STA. 323+00.00
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F.A.P. RTE. 311	SECTION 2012-0371	COUNTY	TOTAL SHEETS 45	SHEET NO. 45
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60T83	