

•= SPECIALTY ITEMS, \*\* 80% FED, 10% STATE, 10% OP  
 OP=VILLAGE OF ORLAND PARK, OH=VILLAGE OF ORLAND HILLS,  
 TP=VILLAGE OF TINLEY PARK

URBAN

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY		LIGHTING		TRAFFIC SIGNALS 179TH	TRAFFIC SIGNALS 171ST	TRAFFIC SIGNALS 167TH	TRAFFIC SIGNALS 163RD	INTERCONNECT	NEW SIDEWALK/BIKE PATH	NEW SIDEWALK/BIKE PATH	NEW SIDEWALK/BIKE PATH	TINLEY PARK 100%	WATER MAIN/FIBER OPTIC/ EVP	WATER MAIN/SAN SEWER	RETAINING WALLS
				80% FED 20% STATE	100% OP	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	**	80% FED 20% STATE	80% FED 20% OP	80% FED 20% OH	80% FED 20% TP	100% TP	100% OP	100% TP	80% FED 20% STATE		
				0003	0021	0021	0021	0021	0021	0021	0021	0021	0028	0028	0028	0031	0043	0043	0040
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	372	372															
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	39	39															
20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25															
20101000	TEMPORARY FENCE	FOOT	4186	4186															
20200100	EARTH EXCAVATION	CU YD	43,586	43,586															
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	46,199	46,199															
20400800	FURNISHED EXCAVATION	CU YD	24,193	24,193															
20600200	GRANULAR EMBANKMENT, SPECIAL	CU YD	96															96	
20800150	TRENCH BACKFILL	CU YD	8610	8560														50	
* 21101625	TOPSOIL FURNISH AND PLACE, 6"	SO YD	113975	113975															
* 21101685	TOPSOIL FURNISH AND PLACE, 24"	SO YD	7028	7028															
* 25000210	SEEDING, CLASS 2A	ACRE	8.75	8.75															
* 25000310	SEEDING, CLASS 4	ACRE	3	3															
* 25000312	SEEDING, CLASS 4A	ACRE	3	3															
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	1615	1615															

Rev. 4-16-13

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FILE NAME * DIG0605-SHT-500.dgn	USER NAME * Frank.Stellone	DESIGNED -	REVISED -
SHT_PLAN	PLOT SCALE * 1/8"=1'-0"	DRAWN -	REVISED -
	PLOT DATE * 2/6/2013	CHECKED -	REVISED -
		DATE - 02/07/13	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 32 SHEETS STA. TO STA.

F.A.P. RATE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 5
CONTRACT NO. 60F05			ILLINOIS FED. AID PROJECT	

Δ 100% STATE (NP)

• = SPECIALTY ITEMS, \*\* 80% FED, 10% STATE, 10% OP

OP=VILLAGE OF ORLAND PARK, OH=VILLAGE OF ORLAND HILLS,

TP=VILLAGE OF TINLEY PARK

URBAN

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	LIGHTING	TRAFFIC SIGNALS 179TH	TRAFFIC SIGNALS 171ST	TRAFFIC SIGNALS 167TH	TRAFFIC SIGNALS 163RD	INTERCONNECT	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	TINLEY PARK 100%	WATER MAIN/FIBER OPTIC/ EVP	WATER MAIN/SAN SEWER	RETAINING WALLS
				80% FED 20% STATE	100% OP	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	**	80% FED 20% STATE	80% FED 20% OP	80% FED 20% OH	80% FED 20% TP	100% TP	100% OP	100% TP	80% FED 20% STATE
				0003	0021	0021	0021	0021	0021	0021	0028	0028	0028	0031	0043	0043	0040
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	1615	1615													
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	1615	1615													
Δ 25000750	MOWING	ACRE	84	84													
* 25003310	INTERSEEDING, CLASS 4	ACRE	0.5	0.5													
* 25100105	MULCH, METHOD 1	ACRE	1	1													
* 25100115	MULCH, METHOD 2	ACRE	6	6													
* 25100127	MULCH, METHOD 3A	ACRE	18	18													
* 25100135	MULCH, METHOD 4	ACRE	1	1													
* 25100630	EROSION CONTROL BLANKET	SO YD	17,403	17,403													
* 25100635	HEAVY DUTY EROSION CONTROL BLANKET	SO YD	41,312	41,312													
* 25200110	SODDING, SALT TOLERANT	SO YD	72,201	72,201													
* 25200200	SUPPLEMENTAL WATERING	UNIT	1194	1194													
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	2186	2186													
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	2212	2212													
28000305	TEMPORARY DITCH CHECKS	FOOT	2477	2477													

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FILE NAME = 0160F05-SHT-500.dgn	USER NAME = Frank.Stallone	DESIGNED -	REVISED -
PLOT SCALE = 100.0000 1/16"	CHECKED -	DRAWN -	REVISED -
PLOT DATE = 2/6/2013	DATE = 02/07/13	CHECKED -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
SCALE:	SHEET 2 OF 32 SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 6
CONTRACT NO. 60F05			ILLINOIS FED. AID PROJECT	

Rev.

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URBAN

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	LIGHTING	TRAFFIC SIGNALS 179TH	TRAFFIC SIGNALS 171ST	TRAFFIC SIGNALS 167TH	TRAFFIC SIGNALS 163RD	INTERCONNECT	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	TINLEY PARK 100%	WATER MAIN/FIBER OPTIC/ EYP	WATER MAIN/SAN SEWER	RETAINING WALLS
				80% FED 20% STATE	100% OP	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	**	80% FED 20% STATE	80% FED 20% OP	80% FED 20% OH	80% FED 20% TP	100% TP	100% OP	100% TP	80% FED 20% STATE
				0003	0021	0021	0021	0021	0021	0021	0028	0028	0028	0031	0043	0043	0040
28000400	PERIMETER EROSION BARRIER	FOOT	21,387	21,387													
<del>28000510</del>	<del>INLET FILTERS</del>	<del>EACH</del>	<del>778</del>	<del>778</del>													
28001000	AGGREGATE (EROSION CONTROL)	TON	142	142													
<del>28001100</del>	<del>TEMPORARY EROSION CONTROL BLANKET</del>	<del>SQ YD</del>	<del>7228</del>	<del>7228</del>													
28100105	STONE RIPRAP, CLASS A3	SO YD	288	288													
28100107	STONE RIPRAP, CLASS A4	SQ YD	40	40													
28200200	FILTER FABRIC	SO YD	328	328													
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	13268	13268													
30300112	AGGREGATE SUBGRADE IMPROVEMENT, 12"	SO YD	166691	166691													
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SO YD	6751	2800							3951						
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SO YD	845	845													
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SO YD	206	206													
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	1737	1737													
35501326	HOT-MIX ASPHALT BASE COURSE, 10 1/2"	SO YD	707	707													
35600718	HOT-MIX ASPHALT BASE COURSE WIDENING, 10 1/2"	SO YD	74	74													
40200900	AGGREGATE SURFACE COURSE, TYPE B	CU YD	40	40													



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FILE NAME : D:\60F05-SHT-500.dgn	USER NAME : Frank.Stallone	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 7		
SHT. PLAN	PLOT SCALE : 100.0000 ' / 1"	DRAWN -	REVISED -			SCALE:	SHEET 3 OF 32 SHEETS	STA.	TO STA.	CONTRACT NO. 60F05		
	PLOT DATE : 2/6/2013	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT						
		DATE : 02/07/13	REVISED -									

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CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	LIGHTING	TRAFFIC SIGNALS 179TH	TRAFFIC SIGNALS 171ST	TRAFFIC SIGNALS 167TH	TRAFFIC SIGNALS 163RD	INTERCONNECT	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	TINLEY PARK 100%	WATER MAIN/FIBER OPTIC/ EVP	WATER MAIN/SAN SEWER	RETAINING WALLS
				80% FED 20% STATE	100% OP	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	••	80% FED 20% STATE	80% FED 20% OP	80% FED 20% OH	80% FED 20% TP	100% TP	100% OP	100% TP	80% FED 20% STATE
				0003	0021	0021	0021	0021	0021	0021	0028	0028	0028	0031	0043	0043	0040
50104400	CONCRETE HEADWALL REMOVAL	EACH	10	10													
50105220	PIPE CULVERT REMOVAL	FOOT	1271	1271													
50200100	STRUCTURE EXCAVATION	CU YD	3348	50													3298
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	96														96
50300225	CONCRETE STRUCTURES	CU YD	1158.7	40.1													1118.6
50300285	FORM LINER TEXTURED SURFACE	SO FT	9380														9380
50500505	STUD SHEAR CONNECTORS	EACH	187														187
50800105	REINFORCEMENT BARS	POUND	4310	4310													
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	101,070														101,070
51200956	FURNISHING METAL SHELL PILES 12" X 0.179"	FOOT	3332														3332
51202305	DRIVING PILES	FOOT	3332														3332
51203200	TEST PILE METAL SHELLS	EACH	4														4
542A0226	PIPE CULVERTS, CLASS A, TYPE 1, 21"	FOOT	87	87													
542A0229	PIPE CULVERTS, CLASS A, TYPE 1, 24"	FOOT	119	119													

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FILE NAME : 0160F05-SHT-S00.dgn	USER NAME : Frank.Stallone	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - 02/07/13	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
 SCALE: SHEET 6 OF 32 SHEETS STA. TO STA.

F.A.P. RTEL 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 10
CONTRACT NO. 60F05			ILLINOIS FED. AID PROJECT	

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CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	LIGHTING	TRAFFIC SIGNALS 179TH	TRAFFIC SIGNALS 171ST	TRAFFIC SIGNALS 167TH	TRAFFIC SIGNALS 163RD	INTERCONNECT	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	TINLEY PARK 100%	WATER MAIN/FIBER OPTIC/ EVP	WATER MAIN/SAN SEWER	RETAINING WALLS
				80% FED 20% STATE	100% OP	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	••	80% FED 20% STATE	80% FED 20% OP	80% FED 20% OH	80% FED 20% TP	100% TP	100% OP	100% TP	80% FED 20% STATE
				0003	0021	0021	0021	0021	0021	0021	0028	0028	0028	0031	0043	0043	0040
56103100	DUCTILE IRON WATER MAIN 8"	FOOT	20	20													
56103200	DUCTILE IRON WATER MAIN 10"	FOOT	19	19													
56103300	DUCTILE IRON WATER MAIN 12"	FOOT	290	290													
56103400	DUCTILE IRON WATER MAIN 16"	FOOT	2706	2706													
56109210	WATER VALVES TO BE ADJUSTED	EACH	10	10													
56400400	FIRE HYDRANTS TO BE RELOCATED	EACH	1	1													
56400500	FIRE HYDRANTS TO BE REMOVED	EACH	13	11												2	
56400825	FIRE HYDRANT WITH AUXILIARY VALVE, VALVE BOX AND TEE	EACH	16	13												3	
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	912	912													912
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	250	250													
60109510	PIPE UNDERDRAINS, FABRIC LINED TRENCH 4"	FOOT	7796	5296										2500			
60200105	CATCH BASINS, TYPE A, 4' -DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1													
60200805	CATCH BASINS, TYPE A, 4' -DIAMETER, TYPE B GRATE	EACH	2	2													
60201330	CATCH BASINS, TYPE A, 4' -DIAMETER, TYPE 23 FRAME AND GRATE	EACH	63	63													

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FILE NAME = 0160F05-SHT-500.dgn	USER NAME = Frank.Stallone	DESIGNED -	REVISED -
		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - 02/07/13	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
SCALE:	SHEET 9 OF 32 SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 13
CONTRACT NO. 60F05			ILLINOIS FED. AID PROJECT	

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CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	LIGHTING	TRAFFIC SIGNALS 179TH	TRAFFIC SIGNALS 171ST	TRAFFIC SIGNALS 167TH	TRAFFIC SIGNALS 163RD	INTERCONNECT	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	TINLEY PARK 100%	WATER MAIN/FIBER OPTIC/ EVP	WATER MAIN/SAN SEWER	RETAINING WALLS
				80% FED 20% STATE 0003	100% OP 0021	80% FED 20% STATE 0021	80% FED 20% STATE 0021	80% FED 20% STATE 0021	** 0021	80% FED 20% STATE 0021	80% FED 20% OP 0028	80% FED 20% OH 0028	80% FED 20% TP 0028	100% TP 0031	100% OP 0043	100% TP 0043	80% FED 20% STATE 0040
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	6	6													
60255500	MANHOLES TO BE ADJUSTED	EACH	71	71													
60254330	CATCH BASINS TO BE RECONSTRUCTED WITH NEW TYPE 23 FRAME AND GRATE	EACH	3	3													
60255800	MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	7	7													
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	5	5													
60258200	MANHOLES TO BE RECONSTRUCTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	2	2													
60260100	INLETS TO BE ADJUSTED	EACH	15	15													
60260300	INLETS TO BE ADJUSTED WITH NEW TYPE 1 FRAME, OPEN LID	EACH	22	22													
<del>60261530</del>	<del>INLETS TO BE ADJUSTED WITH NEW TYPE 23 FRAME AND GRATE</del>	<del>EACH</del>	<del>29</del>	<del>29</del>													
<del>60261540</del>	<del>INLETS TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE</del>	<del>EACH</del>	<del>2</del>	<del>2</del>													
60262700	INLETS TO BE RECONSTRUCTED	EACH	3	3													
<del>60265700</del>	<del>VALVE VAULTS TO BE ADJUSTED</del>	<del>EACH</del>	<del>22</del>	<del>22</del>													
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	1	1													
60403700	LIDS, TYPE 1, OPEN LID	EACH	20	20													
60403800	LIDS, TYPE 1, CLOSED LID	EACH	40	40													
60404940	FRAMES AND GRATES, TYPE 23	EACH	62	62													
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	5	5													
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	10	10													
60500040	REMOVING MANHOLES	EACH	43	43													

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SHT_PLAN	PLOT SCALE : 1/8"=1'-0"	DRAWN -	REVISED -
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
SCALE:	SHEET 11 OF 32 SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 15
CONTRACT NO. 60F05			ILLINOIS FED. AID PROJECT	

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CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE													
				ROADWAY	LIGHTING	TRAFFIC SIGNALS 179TH	TRAFFIC SIGNALS 171ST	TRAFFIC SIGNALS 167TH	TRAFFIC SIGNALS 163RD	INTERCONNECT	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	TINLEY PARK 100%	WATER MAIN/FIBER OPTIC/ EVP	WATER MAIN/SAN SEWER	RETAINING WALLS
				80% FED 20% STATE	100% OP	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	**	80% FED 20% STATE	80% FED 20% OP	80% FED 20% OH	80% FED 20% TP	100% TP	100% OP	100% TP	80% FED 20% STATE
				0003	0021	0021	0021	0021	0021	0021	0028	0028	0028	0031	0043	0043	0040
60619910	CONCRETE MEDIAN, TYPE SB-6.18	SO FT	14730	14730													
60624620	CORRUGATED MEDIAN (MODIFIED)	SO FT	57	57													
*63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	100	100													
63200310	GUARDRAIL REMOVAL	FOOT	1776	1776													
*63100045	TRAFFIC BARRIER TERMINAL, TYPE 2 EACH	EACH	1	1													
*66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	8260	8260													
*63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL TANGENT)	EACH	1	1													
*66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1													
*66900530	SOIL DISPOSAL ANALYSIS	EACH	12	12													
67000600	ENGINEER'S FIELD LABORATORY	CAL MO	30	30													
67100100	MOBILIZATION	L SUM	1	1													
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DAY	400	400													
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	60	60													
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	23,818	23,818													
70400100	TEMPORARY CONCRETE BARRIER	FOOT	788	788													
70600255	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	6	6													
*72000100	SIGN PANEL - TYPE 1	SO FT	1035	829			44	42	60	60							
*72000200	SIGN PANEL - TYPE 2	SO FT	328	283			30	15									

Handwritten circled notes around rows 70301000, 70400100, and 72000200. Includes a triangle symbol next to the 72000200 row.

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CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	LIGHTING	TRAFFIC SIGNALS 179TH	TRAFFIC SIGNALS 171ST	TRAFFIC SIGNALS 167TH	TRAFFIC SIGNALS 163RD	INTERCONNECT	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	TINLEY PARK 100%	WATER MAIN/ FIBER OPTIC/ EVP	WATER MAIN/SAN SEWER	RETAINING WALLS
				80% FED 20% STATE	100% OP	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	**	80% FED 20% STATE	80% FED 20% OP	80% FED 20% OH	80% FED 20% TP	100% TP	100% OP	100% TP	80% FED 20% STATE
				0003	0021	0021	0021	0021	0021	0021	0028	0028	0028	0031	0043	0043	0040
* 78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	103,415	103,415													
* 78005130	EPOXY PAVEMENT MARKING - LINE 6"	FOOT	5323	5323													
* 78005140	EPOXY PAVEMENT MARKING - LINE 8"	FOOT	251	251													
* 78005150	EPOXY PAVEMENT MARKING - LINE 12"	FOOT	2541	2541													
* 78005180	EPOXY PAVEMENT MARKING - LINE 24"	FOOT	515	515													
* 78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SO FT	2608	2608													
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	17179	17179													
* 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	8779	8779													
* 78008240	POLYUREA PAVEMENT MARKING TYPE I - LINE 8"	FOOT	794	794													
* 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	649	649													
* 78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	913	913													
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1913	1913													
* 78200300	PRISMATIC CURB REFLECTOR	EACH	193	193													
* 78200530	BARRIER WALL MARKERS, TYPE C	EACH	40	40													

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FILE NAME : 0160F05-SHT-500.dgn	USER NAME : Frank.Stallone	DESIGNED -	REVISED -
SHT_PLAN	PLOT SCALE : 100.0000' / in.	DRAWN -	REVISED -
	PLOT DATE : 2/6/2013	CHECKED -	REVISED -
		DATE : 02/07/13	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 15 OF 32 SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 19
CONTRACT NO. 60F05			ILLINOIS FED. AID PROJECT	

Rev. 4-16-13

Rev.



\* = SPECIALTY ITEMS, \*\* 80% FED, 10% STATE, 10% OP  
 OP=VILLAGE OF ORLAND PARK, OH=VILLAGE OF ORLAND HILLS,  
 TP=VILLAGE OF TINLEY PARK

URBAN

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	LIGHTING	TRAFFIC SIGNALS 179TH	TRAFFIC SIGNALS 171ST	TRAFFIC SIGNALS 167TH	TRAFFIC SIGNALS 163RD	INTERCONNECT	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	TINLEY PARK 100%	WATER MAIN/FIBER OPTIC/EVP	WATER MAIN/SAN SEWER	RETAINING WALLS
				80% FED 20% STATE 0003	100% OP 0021	80% FED 20% STATE 0021	80% FED 20% STATE 0021	80% FED 20% STATE 0021	** 0021	80% FED 20% STATE 0021	80% FED 20% OP 0028	80% FED 20% OH 0028	80% FED 20% TP 0028	100% TP 0031	100% OP 0043	100% TP 0043	80% FED 20% STATE 0040
* 81400300	DOUBLE HANDHOLE	EACH	10			2	3	3	2								
* 81603050	UNIT DUCT, 600V, 3-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	9652		9652												
* 81603060	UNIT DUCT, 600V, 3-1C NO. 8, 1/C NO. 10 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	100		100												
* 81603063	UNIT DUCT, 600V, 4-1C NO. 10, 1/C NO. 10 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	622		622												
* 81603081	UNIT DUCT, 600V, 3-1C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	9652		9652												
* 81800300	AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	4050		4050												
* 82102250	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT	EACH	2		2												
* 82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	39		39												
* 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	380		380												
* 83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	3		3												
* 84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	32		32												
* 84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	39		39												
* 84200804	REMOVAL OF POLE FOUNDATION	EACH	42		42												
* 84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	2		2												
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2							2							

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FILE NAME : 016005-SHT-500.dgn	USER NAME : Frank.Stallone	DESIGNED -	REVISED -
SHT_PLAN	PLOT SCALE : 100.0000' / 1" =	DRAWN -	REVISED -
	PLOT DATE : 2/6/2013	CHECKED -	REVISED -
		DATE : 02/07/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 17 OF 32 SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 21
CONTRACT NO. 60F05			ILLINOIS FED. AID PROJECT	

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 TP=VILLAGE OF TINLEY PARK

URBAN

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	LIGHTING	TRAFFIC SIGNALS 179TH	TRAFFIC SIGNALS 171ST	TRAFFIC SIGNALS 167TH	TRAFFIC SIGNALS 163RD	INTERCONNECT	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	TINLEY PARK 100%	WATER MAIN/FIBER OPTIC/EVP	WATER MAIN/SAN SEWER	RETAINING WALLS
				80% FED 20% STATE 0003	100% OP 0021	80% FED 20% STATE 0021	80% FED 20% STATE 0021	80% FED 20% STATE 0021	** 0021	80% FED 20% STATE 0021	80% FED 20% OP 0028	80% FED 20% OH 0028	80% FED 20% TP 0028	100% TP 0031	100% OP 0043	100% TP 0043	80% FED 20% STATE 0040
X0325003	REMOVE EXISTING VALVE AND VAULT	EACH	2	2													
X0320096	MANHOLES, TYPE A, 6'-DIAMETER, WITH 2 TYPE 1 FRAME, OPEN LIDS, RESTRICTOR PLATE <i>closed</i>	EACH	11	11													
X0325318	LIGHTWEIGHT CELLULAR CONCRETE FILL	CU YD	1438														1438
* X0325751	DRIVING SOLDIER PILES	FOOT	632														632
* X0326498	GFCI 20 AMP DUPLEX RECEPTACLE	EACH	35		35												
X0326747	SANITARY FORCE MAIN, 6"	FOOT	735	735													
* X0327004	TEMPORARY WOOD POLE, 60 FT., CLASS 4	EACH	1		1												
X0327024	FIRE HYDRANTS TO BE REMOVED & SALVAGED	EACH	4	2													2
X0327482	TAPPING VALVES AND SLEEVES, 8"X8", IN 60" DIAMETER VALVE VAULT, TYPE 1 FRAME, CLOSED LID	EACH	2	1													1
X0327483	TAPPING VALVES AND SLEEVES, 12"X12", IN 60" DIAMETER VALVE VAULT, TYPE 1 FRAME, CLOSED LID	EACH	1														1
X2800520	ABOVE GRADE INLET FILTERS	EACH	804	804													
X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	4	4													
X4022000	TEMPORARY ACCESS (COMMERICAL ENTRANCE)	EACH	36	36													
X4023000	TEMPORARY ACCESS (ROAD)	EACH	1	1													

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 FAX 312/291-4088  
**URS**

FILE NAME : 0160F05-SHT-500.dgn	USER NAME : Frank.Stallone	DESIGNED -	REVISED -
SHT_PLAN	PLOT SCALE : 100.0000' / in.	DRAWN -	REVISED -
	PLOT DATE : 2/6/2013	CHECKED -	REVISED -
		DATE : 02/07/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE:	SHEET 24 OF 32	SHEETS STA.	TO STA.

F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 28
CONTRACT NO. 60F05				
ILLINOIS FED. AID PROJECT				

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 OP=VILLAGE OF ORLAND PARK, OH=VILLAGE OF ORLAND HILLS,  
 TP=VILLAGE OF TINLEY PARK

URBAN

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	LIGHTING	TRAFFIC SIGNALS 179TH	TRAFFIC SIGNALS 171ST	TRAFFIC SIGNALS 167TH	TRAFFIC SIGNALS 163RD	INTERCONNECT	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	TINLEY PARK 100%	WATER MAIN/FIBER OPTIC/ EVP	WATER MAIN/SAN SEWER	RETAINING WALLS
				80% FED 20% STATE 0003	100% OP 0021	80% FED 20% STATE 0021	80% FED 20% STATE 0021	80% FED 20% STATE 0021	** 0021	80% FED 20% STATE 0021	80% FED 20% OP 0028	80% FED 20% OH 0028	80% FED 20% TP 0028	100% TP 0031	100% OP 0043	100% TP 0043	80% FED 20% STATE 0040
x4024000	TEMPORARY ACCESS (FIELD ENTRANCE)	EACH	4	4													
X4024100	TEMPORARY ACCESS (WINTERIZE)	SO YD	3531	3531													
X4200110	HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SO YD	6593	6593													
X4402805	ISLAND REMOVAL	SO FT	4864	4864													
X4404000	PARKING LOT PAVEMENT REMOVAL	SO YD	2641	2641													
X5121800	PERMANENT STEEL SHEET PILING	SO FT	14,495	14,495													14,495
X550A562	TEMPORARY STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	328	328													
X5610004	DUCTILE IRON WATER MAIN FITTINGS	POUND	1426	464													962
X5610649	PLUG EX WATER MAIN 12"	EACH	1	1													
X5611106	DUCTILE IRON WATER MAIN, CLASS 52 WITH POLYETHYLENE ENCASEMENT, 6"	FOOT	20	5													15
X5611108	DUCTILE IRON WATER MAIN, CLASS 52 WITH POLYETHYLENE ENCASEMENT, 8"	FOOT	40	20													20
X5611112	DUCTILE IRON WATER MAIN, CLASS 52 WITH POLYETHYLENE ENCASEMENT, 12"	FOOT	1176	550													626
X5620035	WATER SERVICE CONNECTION 1 1/2"	EACH	3											2			1
X5630008	CUT AND CAP EXISTING 8" WATER MAIN	EACH	2	1													1

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FILE NAME * D16P05-SHT-500.dgn	USER NAME * Frank.Stallone	DESIGNED -	REVISED -
PLOT SCALE * 100.0000' / in.	PLOT DATE * 2/6/2013	DRAWN -	REVISED -
SHT_PLAN	DATE - 02/07/13	CHECKED -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 25 OF 32 SHEETS STA. TO STA.

P.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 29
CONTRACT NO. 60F05			ILLINOIS FED. AID PROJECT	

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CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	LIGHTING	TRAFFIC SIGNALS 179TH	TRAFFIC SIGNALS 171ST	TRAFFIC SIGNALS 167TH	TRAFFIC SIGNALS 163RD	INTERCONNECT	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	TINLEY PARK 100%	WATER MAIN/FIBER OPTIC/ EVP	WATER MAIN/SAN SEWER	RETAINING WALLS
				80% FED 20% STATE	100% OP	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	**	80% FED 20% STATE	80% FED 20% OP	80% FED 20% OH	80% FED 20% TP	100% TP	100% OP	100% TP	80% FED 20% STATE
				0003	0021	0021	0021	0021	0021	0021	0028	0028	0028	0031	0043	0043	0040
X5630012	CUT AND CAP EXISTING 12" WATER MAIN	EACH	1													1	
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	1354														1354
X6021193	TEMPORARY CATCH BASINS	EACH	25	25													
X6026622	VALVE VAULTS TO BE REMOVED	EACH	4	1												3	
X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	30	30													
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1													
X7030025	WET REFLECTIVE TEMPORARY TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	4623	4623													
X7030030	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH	FOOT	177,416	177,416													
X7030040	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 6 INCH	FOOT	21,481	21,481													
X7030045	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 8 INCH	FOOT	307	307													
X7030050	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 12 INCH	FOOT	3293	3293													
X7030055	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 24 INCH	FOOT	2153	2153													
X8210015	TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, 400 WATT	EACH	32	32													
X8250060	TEMPORARY LIGHTING CONTROLLER	EACH	1	1													
X8250090	COMBINATION POLE LIGHTING CONTROLLER	EACH	1	1													

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FILE NAME : D:\G0F05-SHT-500.dgn	USER NAME : Frank.Stallone	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 30		
SHT_PLAN	PLOT SCALE : 100.0000' / 1"	DRAWN -	REVISED -			SCALE:	SHEET 26 OF 32 SHEETS	STA.	TO STA.	CONTRACT NO. 60F05		
	PLOT DATE : 2/6/2013	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT						
		DATE : 02/07/13	REVISED -									

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CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	LIGHTING	TRAFFIC SIGNALS 179TH	TRAFFIC SIGNALS 171ST	TRAFFIC SIGNALS 167TH	TRAFFIC SIGNALS 163RD	INTERCONNECT	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	NEW SIDEWALK /BIKE PATH	TINLEY PARK 100%	WATER MAIN/FIBER OPTIC/ EVP	WATER MAIN/SAN SEWER	RETAINING WALLS
				80% FED 20% STATE	100% OP	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	**	80% FED 20% STATE	80% FED 20% OP	80% FED 20% OH	80% FED 20% TP	100% TP	100% OP	100% TP	80% FED 20% STATE
				0003	0021	0021	0021	0021	0021	0021	0028	0028	0028	0031	0043	0043	0040
XX007558	GATE VALVE 6" WITH VAULT, 4' DIAMETER	EACH	3	3													
XX007559	GATE VALVE 8" WITH VAULT, 4' DIAMETER	EACH	1	1													
XX008746	VALVE WITH VALVE BOX, 6"	EACH	1													1	
* Z0007118	UNTREATED TIMBER LAGGING	SO FT	235														235
Z0007120	WELDED WIRE FABRIC 6X6	SO YD	164	164													
* z0007510	ENGINEERED BARRIER	SO YD	250	250													
Z0013302	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	2150														2150
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1													
Z0018911	DRILL AND GROUT #6 TIE BARS	EACH	250	250													
* Z0026402	FURNISHING SOLDIER PILES (HP SECTION)	FOOT	632														632
Z0027800	GEOTECHNICAL FABRIC	SO YD	166691	166691													
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	28	28													
* Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	30		30												
* Z0033040	ELECTRIC SERVICE DISCONNECT, LIGHTING AND TRAFFIC SIGNAL	EACH	1						1								
* Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	4							4							

28 28



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FILE NAME : DIG0F05-SHT-500.dgn	USER NAME : Frank.Stallone	DESIGNED -	REVISED -
SHT_PLAN	PLOT SCALE : 100.0000' / 1" =	DRAWN -	REVISED -
	PLOT DATE : 2/6/2013	CHECKED -	REVISED -
		DATE : 02/07/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 28 OF 32 SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 32
CONTRACT NO. 60F05			ILLINOIS FED. AID PROJECT	

Rev

EARTHWORK SCHEDULE - 60F05 SOUTH

STAGE	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	UNSUITABLE EXCAVATION	SUITABLE EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) FURNISHED
	CU YD	CU YD	CU YD	CU YD	CU YD
US 45 (LAGRANGE ROAD) STATION 20+00 TO STATION 167+00					
TEMPORARY	2,263.3	1,697.5	1,411.9	790.0	907.5
STAGE 1	14,858.0	11,143.5	29,176.5	34,963.7	-23,820.2
STAGE 2	1,255.6	941.7	684.6	1,174.6	-233.0
STAGE 3	13,172.0	9,879.0	9,639.6	13,199.6	-3,320.6
STAGE 4	2,520.0	1,890.0	2,465.7	5,281.9	-3,391.9
SUBTOTAL:	34,068.9	25,551.7	43,378.4	55,409.8	-29,858.1
163RD STREET					
TEMPORARY	88.8	66.6	27.7	2.3	64.3
STAGE A	234.5	175.9	88.1	90.1	85.8
STAGE B	114.5	85.9	0.0	0.0	85.9
STAGE C	347.7	260.8	70.7	60.0	200.8
SUBTOTAL:	785.6	589.2	186.5	152.4	436.8
165TH STREET					
STAGE A	113.4	85.1	48.6	31.1	54.0
167TH STREET					
TEMPORARY	162.4	121.8	143.5	83.7	38.1
STAGE A	2,922.7	2,192.0	650.4	254.7	1,937.2
STAGE B	1,464.7	1,098.5	135.6	36.4	1,062.1
STAGE C	1,421.8	1,066.4	202.6	162.3	904.1
SUBTOTAL:	5,971.6	4,478.7	1,132.1	537.1	3,941.6
171ST STREET					
STAGE A	985.2	738.9	151.6	41.3	697.7
175TH STREET					
STAGE A	218.5	163.9	54.9	8.1	155.8
179TH STREET					
TEMPORARY	508.1	381.0	555.4	330.5	50.6
STAGE A	268.1	201.1	112.4	79.9	121.2
STAGE B	95.8	71.9	0.0	0.0	71.9
STAGE C	570.7	428.1	579.4	292.5	135.6
SUBTOTAL:	1,442.8	1,082.1	1,247.1	702.9	379.2
TOTAL:	43,586	32,690	46,199	56,883	-24,193

NOTES:

- "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL" INCLUDES TOPSOIL/UNSUITABLE EXCAVATION AND THE QUANTITY OF REMOVAL REQUIRED FOR AGGREGATE SUBGRADE IMPROVEMENT, 12" PLACEMENT.
- FOR QUANTITY CALCULATIONS THE AVERAGE EXISTING TOPSOIL THICKNESS IS ASSUMED TO BE 6".

• ASSUME 25% FOR SHRINKAGE

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FILE NAME = D:\60F05-SHT-SCHEDULE01.dgn	USER NAME = james.push	DESIGNED - KBN	REVISED - 04/12/2013
		DRAWN - KBN	REVISED -
		CHECKED -	REVISED -
SHT_PLAN	PLOT DATE = 4/10/2013	DATE - 03/13/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S.		SHEET 1 OF 5 SHEETS		STA. TO STA.
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SCHEDULE OF QUANTITIES

F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 45
SC-01		CONTRACT NO. 60F05		
ILLINOIS FED. AID PROJECT				

**EROSION CONTROL SCHEDULE**  
**SHEETS ER-02 TO ER-35**

ITEM	20101000	25100127	25100630	25100635	25200110	28000200	28000250	28000305	28000400	28001000	72000200	X2800520
	TEMPORARY FENCE	MULCH, METHOD 3A	EROSION CONTROL BLANKET	HEAVY DUTY EROSION CONTROL BLANKET	SODDING, SALT TOLERANT	EARTH EXCAVATION FOR EROSION CONTROL	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	AGGREGATE (EROSION CONTROL)	SIGN PANEL - TYPE 2	ABOVE GRADE INLET FILTERS
SHEET	FOOT	ACRE	SO YD	SQ YD	SO YD	CU YD	POUND	FOOT	FOOT	TON	SO FT	EACH
ER-02	0	1.00	0	0	0	0	100.00	0	136	0	0	5
ER-03	1,332	0.50	0	0	85	5	55.75	0	100	6	54	6
ER-04	965	1.00	78	0	0	185	105.75	0	2,340	8	54	51
ER-05	609	1.00	107	0	0	320	109.75	0	2,198	16	54	35
ER-06	220	1.50	49	0	1265	80	153.25	52	867	7	18	28
ER-07	0	0.00	0	0	811	0	0.00	20	0	0	0	2
ER-08	0	0.75	98	6232	0	300	211.00	290	0	8	0	17
ER-09	202	0.50	137	5370	0	510	172.75	150	2,103	19	0	51
ER-10	0	0.25	54	7153	0	140	177.25	850	1,629	7	0	58
ER-11	0	0.25	0	4341	0	0	114.75	450	1,025	0	0	41
ER-12	0	0.50	73	3868	0	160	134.25	30	1,986	29	0	41
ER-13	0	0.00	0	100	0	0	0.00	0	59	0	0	1
ER-14	0	0.00	0	0	0	0	0.00	0	0	0	0	8
ER-15	0	0.00	0	0	0	0	0.00	0	0	0	0	14
ER-16	0	0.00	0	0	0	0	0.00	0	0	0	0	15
ER-17	0	0.00	0	0	0	0	0.00	0	0	0	0	14
ER-18	0	0.00	0	0	0	0	0.00	0	0	0	0	17
ER-19	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-20	0	1.75	0	2907	519	0	94.25	300	0	0	0	14
ER-21	0	0.25	200	5775	815	207	102.50	60	2,154	6	0	51
ER-22	0	1.00	0	0	0	0	0.00	0	0	0	0	50
ER-23	0	1.00	0	863	0	0	25.00	0	0	0	0	49
ER-24	0	1.00	45	0	1210	80	25.00	30	476	0	0	45
ER-25	0	0.00	0	0	757	0	0.00	20	0	0	0	1
ER-26	0	0.00	0	0	0	0	0.00	0	0	0	0	8
ER-27	0	0.00	0	0	0	0	0.00	0	0	0	0	13
ER-28	0	0.00	0	0	0	0	0.00	0	0	0	0	14
ER-29	0	0.00	0	0	0	0	0.00	0	0	0	0	12
ER-30	0	0.00	0	0	0	0	0.00	0	0	0	0	16
ER-31	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-32	0	0.50	0	0	0	0	25.00	0	979	0	0	1
ER-33	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-34	0	0.25	0	107	0	0	27.25	0	345	23	0	0
ER-35	0	0.25	0	0	0	0	25.00	0	0	0	0	0

NOTE:  
FOR EROSION CONTROL SCHEDULE SHEETS ER-36 TO ER-62 AND TOTAL QUANTITIES, SEE SHEET SC-05.

**APX**  
CONSULTING ENGINEERS, L.L.C.  
311 E. Wacker Drive, Suite 528  
Chicago, IL 60601

FILE NAME : *FILE*	USER NAME : *USER*	DESIGNED - R.A.D.	REVISED - $\Delta$ 04/12/2013	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL SCHEDULE OF QUANTITIES SOUTH CONTRACT</b>	F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 48	
PLOT SCALE : *SCALE*	CHECKED - W.H.I.	REVISOR -	REVISOR -			<b>SC-04</b>		CONTRACT NO. 60F05			
PLOT DATE : *DATE*	DATE - 03/15/2013	REVISOR -	REVISOR -			SCALE: N.T.S.	SHEET NO. 4 OF 5 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

**EROSION CONTROL SCHEDULE  
SHEETS ER-36 TO ER-62**

ITEM	20101000	25100127	25100630	25100635	25200110	28000200	28000250	28000305	28000400	28001000	72000200	X2800520
	TEMPORARY FENCE	MULCH. METHOD 3A	EROSION CONTROL BLANKET	HEAVY DUTY EROSION CONTROL BLANKET	SODDING, SALT TOLERANT	EARTH EXCAVATION FOR EROSION CONTROL	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	AGGREGATE (EROSION CONTROL)	SIGN PANEL - TYPE 2	ABOVE GRADE INLET FILTERS
SHEET	FOOT	ACRE	SQ YD	SQ YD	SQ YD	CU YD	POUND	FOOT	FOOT	TON	SQ FT	EACH
ER-36	0	0.00	0	107	0	0	2.25	0	0	0	0	0
ER-37	0	0.25	0	0	0	0	34.25	0	1,109	0	0	15
ER-38	0	0.25	0	0	0	0	34.25	0	318	0	0	8
ER-39	0	0.00	0	0	0	0	1.00	0	245	0	0	4
ER-40	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-41	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-42	0	0.00	0	0	0	0	25.00	0	0	0	0	0
ER-43	0	0.25	0	0	0	0	25.00	0	0	0	0	0
ER-44	0	0.50	0	0	0	0	50.00	0	0	0	0	5
ER-45	0	0.00	0	125	0	0	2.75	0	0	0	0	1
ER-46	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-47	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-48	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-49	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-50	0	0.50	0	0	0	0	50.00	0	710	0	0	2
ER-51	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-52	0	0.25	0	608	0	0	25.00	0	664	0	0	4
ER-53	0	0.00	0	0	0	0	3.00	0	0	0	0	6
ER-54	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-55	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-56	0	0.25	0	0	0	0	25.00	0	0	0	0	0
ER-57	0	0.25	0	0	0	0	25.00	0	0	0	0	0
ER-58	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-59	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-60	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-61	0	0.25	0	0	0	0	25.00	0	0	0	0	4
ER-62	0	0.25	0	0	0	0	25.00	0	0	0	0	4
ER-63	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-64	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-65	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-66	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-67	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-68	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-69	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-70	0	0.00	0	0	0	0	0.00	0	0	0	0	0
ER-71	0	0.00	0	0	0	0	0.00	0	0	0	0	0
<b>SUB TOTAL</b>	<b>3,328</b>	<b>16.25</b>	<b>841</b>	<b>37,556</b>	<b>5,462</b>	<b>1,987</b>	<b>2,011.00</b>	<b>2,252</b>	<b>19,443</b>	<b>129</b>		<b>731</b>
<b>AT THE ENGINEER'S DISCRETION</b>	<b>333</b>	<b>1.75</b>	<b>84</b>	<b>3,756</b>	<b>546</b>	<b>199</b>	<b>201.00</b>	<b>225</b>	<b>1,944</b>	<b>13</b>		<b>73</b>
<b>GRAND TOTAL</b>	<b>3,661</b>	<b>18.00</b>	<b>925</b>	<b>41,312</b>	<b>6,008</b>	<b>2,186</b>	<b>2,212</b>	<b>2,477</b>	<b>21,387</b>	<b>142</b>	<b>180</b>	<b>804</b>

NOTE: FOR EROSION CONTROL SCHEDULE SHEETS ER-02 TO ER-35, SEE SHEET SC-04.

**APEX**  
CONSULTING ENGINEERS, LLC  
111 N. Wacker Drive, Suite 508  
Chicago, IL 60601

FILE NAME :

FILE# :

USER NAME : #USCR#

DESIGNED - R.A.D.

REVISOR - A 04/12/2013

DRAWN - L.N.

REVISOR -

PLOT SCALE : #SCALE#

CHECKED - W.H.I.

REVISOR -

PLOT DATE : #DATE#

DATE - 03/15/2013

DESIGNED - R.A.D.

REVISOR - A 04/12/2013

DRAWN - L.N.

REVISOR -

CHECKED - W.H.I.

REVISOR -

DATE - 03/15/2013

REVISOR -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

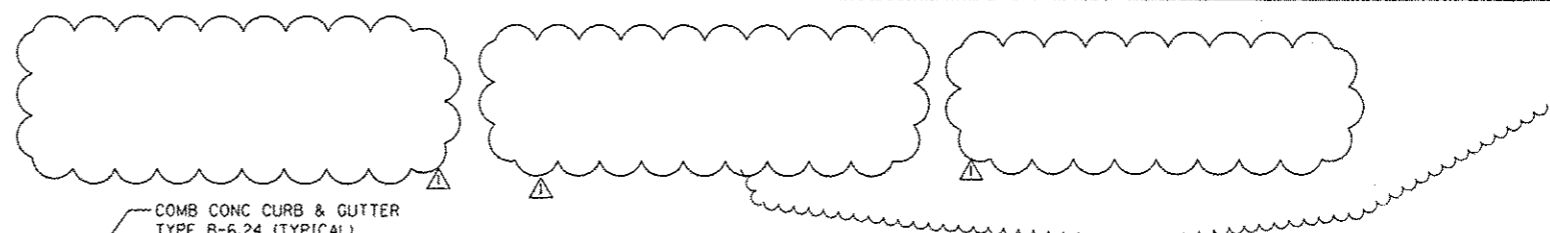
**EROSION CONTROL SCHEDULE OF QUANTITIES  
SOUTH CONTRACT**

SCALE: N.T.S. SHEET NO. 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	103R-3	COOK	932	49
SC-05			CONTRACT NO. 60F05	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**NOTE:**  
 PARKING LOT PAVEMENT RESTORATION SHALL CONSIST OF MATCHING THE EXISTING PAVEMENT STRUCTURE. ESTIMATED QUANTITIES CONSIST OF:  
 HMA SURFACE COURSE, MIX D, NSO (1 1/2" THICK)  
 HMA BINDER COURSE, IL-19.0, NSO (2 1/4" THICK)  
 AGGREGATE BASE COURSE, TYPE B, 8"



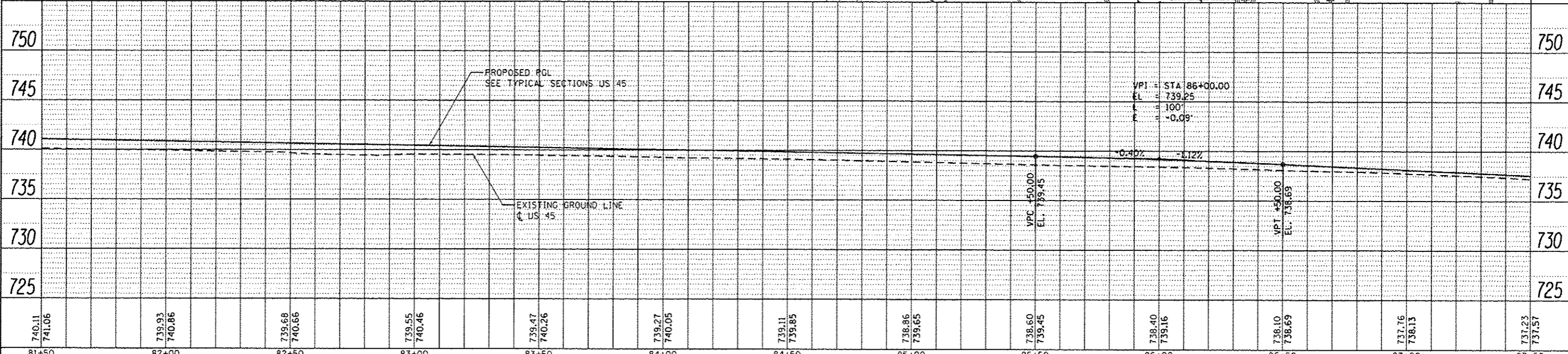
DATE	
BY	
CHECKED	
DESIGNED	
PLANNED	
NOTED	
NO.	

DATE	
BY	
CHECKED	
DESIGNED	
PLANNED	
NOTED	
NO.	

SEE DRAWING PP-11  
 MATCH LINE STA. 81+50.00

MATCH LINE STA. 87+50.00  
 SEE DRAWING PP-13

**LEGEND**  
 [Symbol] = PARKING LOT PAVEMENT RESTORATION  
 [Symbol] = DETECTABLE WARNINGS SEE STANDARDS 424001, 424006, 424011, 424016, 424021, 424026, AND 424031 FOR DETAILS



81+50	82+00	82+50	83+00	83+50	84+00	84+50	85+00	85+50	86+00	86+50	87+00	87+50
740.11 741.06	739.93 740.86	739.68 740.66	739.55 740.46	739.47 740.26	739.27 740.05	739.11 739.85	738.86 739.65	738.60 739.45	738.40 739.16	738.10 738.69	737.76 738.15	737.23 737.57

**URS**  
 100 S. WACKER DR.  
 SUITE 500  
 CHICAGO, IL 60606  
 TEL: (312) 866-0000  
 FAX: (312) 939-1199

FILE NAME: D:\60F05-SHT-PLAN\PP12.dgn	USER NAME: jones.push	DESIGNED - JTF	REVISED - 04/12/2013
		DRAWN - JTF	REVISED -
		CHECKED - MJT	REVISED -
		DATE - 03/13/13	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED PLAN AND PROFILE - US 45 (LAGRANGE ROAD)**  
 SCALE: 1"=20'H=1"=5'V SHEET 12 OF 26 SHEETS STA. 81+50.00 TO STA. 87+50.00

F.A.P. RITE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 81
PP-12			CONTRACT NO. 60F05	
ILLINOIS FED. AID PROJECT				

**LEGEND**  
 [Symbol] = PARKING LOT PAVEMENT RESTORATION  
 [Symbol] = DETECTABLE WARNINGS SEE STANDARDS 424001, 424006, 424011, 424016, 424021, 424026, AND 424031 FOR DETAILS

STAMPED COLORED PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED) 10' WIDE (TYPICAL)

STA 89+12.22 @ US 45 = STA 450+00.00 @ 171ST ST

COMB CONC CURB & GUTTER TYPE B-6.24 (TYPICAL)

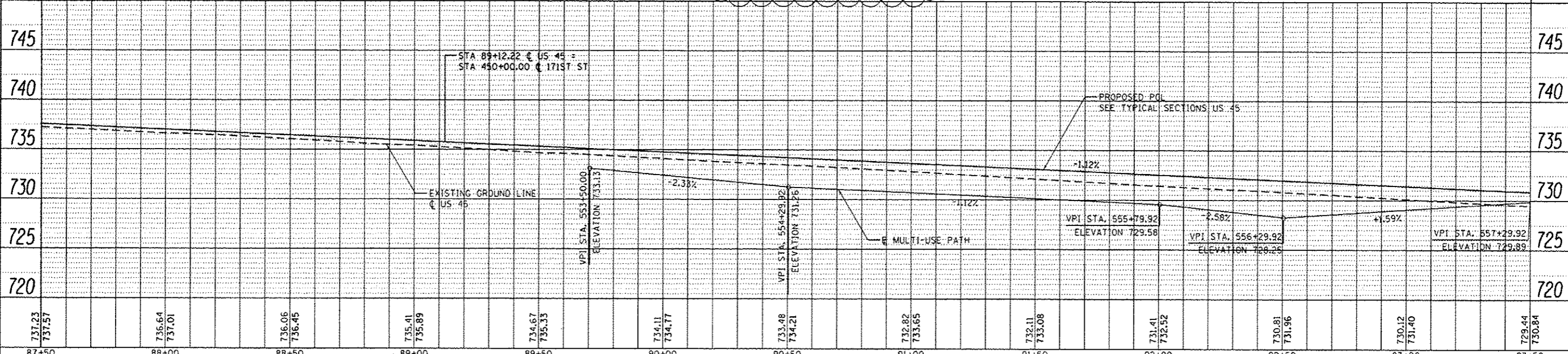
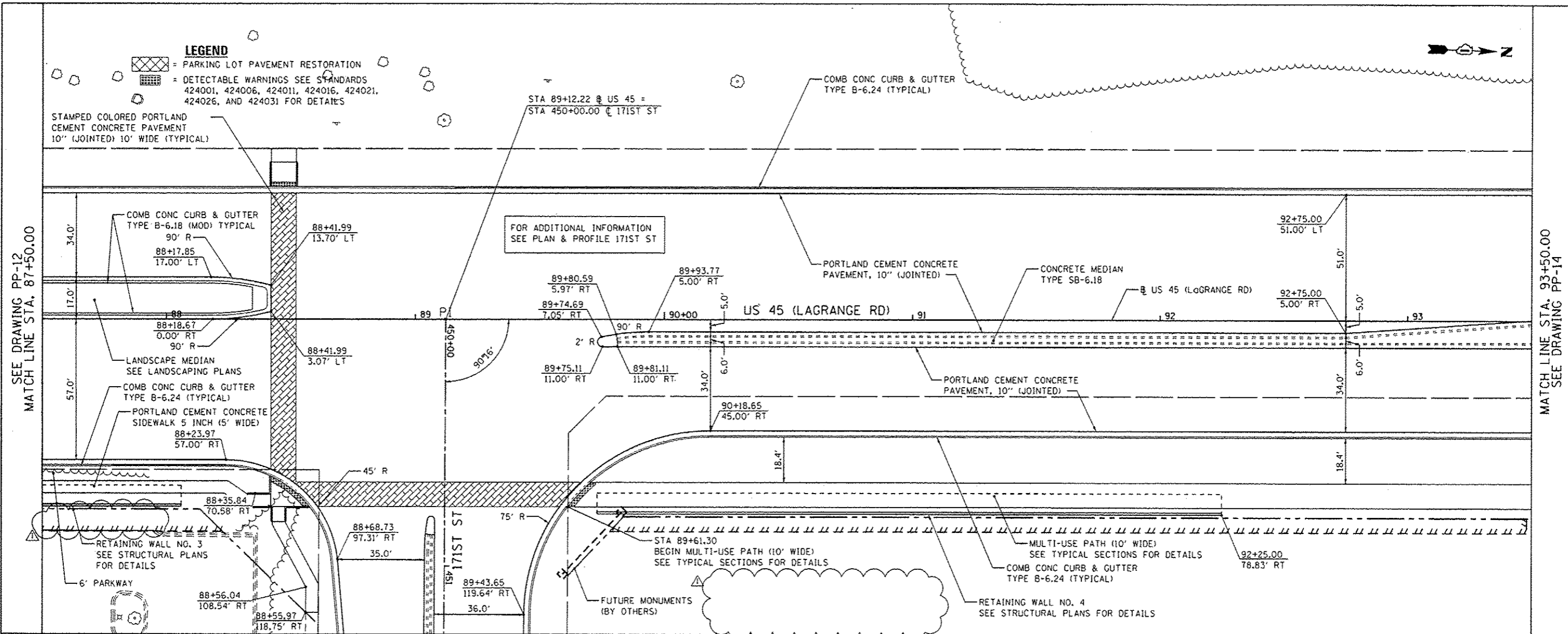


DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	

SEE DRAWING PP-12 MATCH LINE STA. 87+50.00

MATCH LINE STA. 93+50.00 SEE DRAWING PP-14



URS  
 100 S. WACKER DR.  
 SUITE 500  
 CHICAGO, IL 60606  
 TEL: 312.291.4000  
 FAX: 312.291.4098

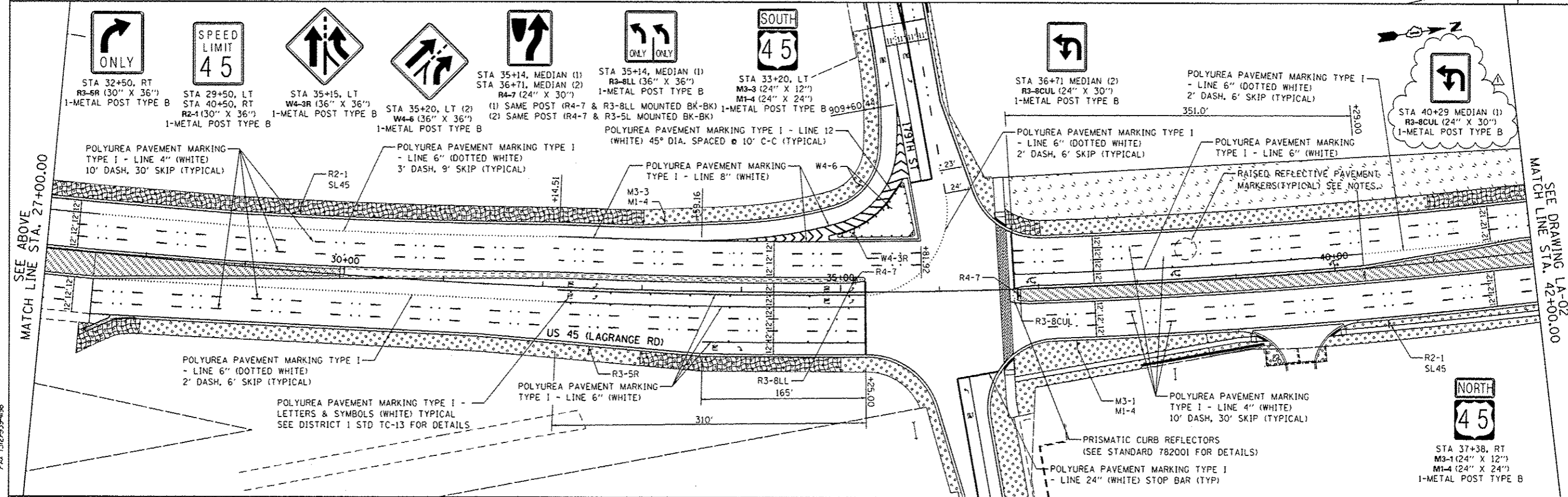
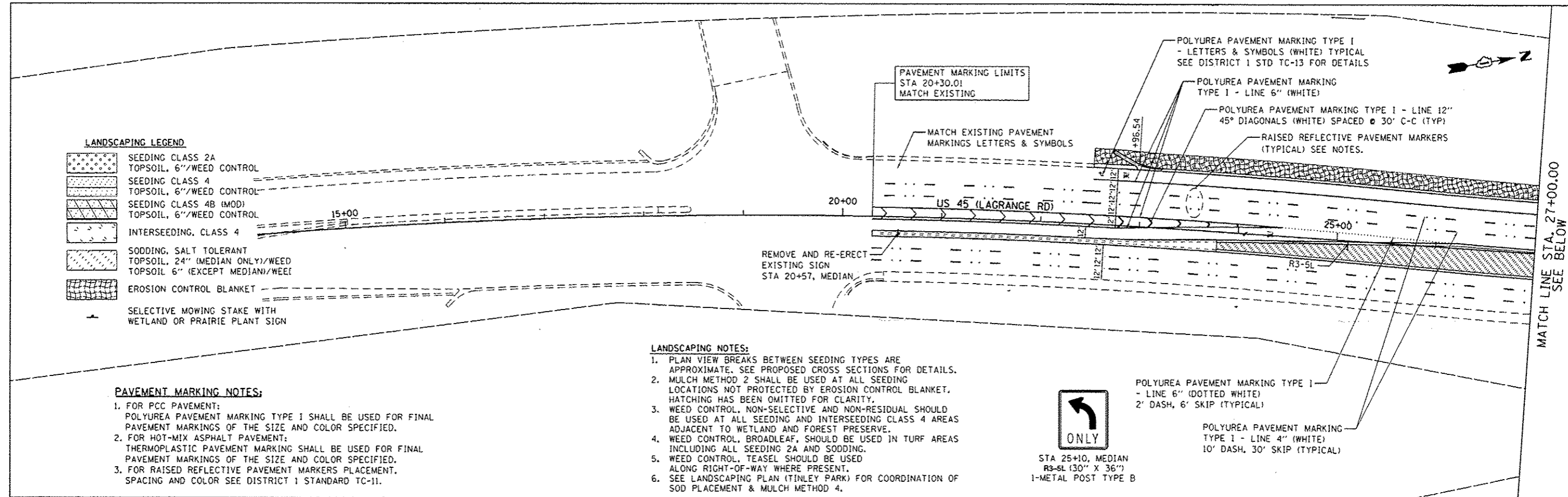
FILE NAME: 0160F05-SHT-PLNPRF13.dgn	USER NAME: james.pugh	DESIGNED: JTF	REVISED: 04/12/2013	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED PLAN AND PROFILE - US 45 (LAGRANGE ROAD)</b>	F.A.P. RITE: 330	SECTION: 103R-3	COUNTY: COOK	TOTAL SHEETS: 932	SHEET NO.: 82	
PLOT SCALE: 1/8" = 1'	CHECKED: MJT	REVISIONS:	SCALE: 1" = 20' HORIZ, 1" = 5' VERT			SHEET: 13 OF 26 SHEETS	STA. 87+50.00 TO STA. 93+50.00	<b>PP-13</b>		CONTRACT NO. 60F05	ILLINOIS FED. AID PROJECT
PLOT DATE: 4/10/2013	DATE: 03/13/13	REVISIONS:									

**LANDSCAPING LEGEND**

	SEEDING CLASS 2A TOPSOIL, 6"/WEED CONTROL
	SEEDING CLASS 4 TOPSOIL, 6"/WEED CONTROL
	SEEDING CLASS 4B (MOD) TOPSOIL, 6"/WEED CONTROL
	INTERSEEDING, CLASS 4
	SODDING, SALT TOLERANT TOPSOIL, 24" (MEDIAN ONLY)/WEED TOPSOIL 6" (EXCEPT MEDIAN)/WEED
	EROSION CONTROL BLANKET
	SELECTIVE MOWING STAKE WITH WETLAND OR PRAIRIE PLANT SIGN

- PAVEMENT MARKING NOTES:**
- FOR PCC PAVEMENT:  
POLYUREA PAVEMENT MARKING TYPE I SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
  - FOR HOT-MIX ASPHALT PAVEMENT:  
THERMOPLASTIC PAVEMENT MARKING SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
  - FOR RAISED REFLECTIVE PAVEMENT MARKERS PLACEMENT,  
SPACING AND COLOR SEE DISTRICT 1 STANDARD TC-11.

- LANDSCAPING NOTES:**
- PLAN VIEW BREAKS BETWEEN SEEDING TYPES ARE APPROXIMATE. SEE PROPOSED CROSS SECTIONS FOR DETAILS.
  - MULCH METHOD 2 SHALL BE USED AT ALL SEEDING LOCATIONS NOT PROTECTED BY EROSION CONTROL BLANKET. HATCHING HAS BEEN OMITTED FOR CLARITY.
  - WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL SHOULD BE USED AT ALL SEEDING AND INTERSEEDING CLASS 4 AREAS ADJACENT TO WETLAND AND FOREST PRESERVE.
  - WEED CONTROL, BROADLEAF, SHOULD BE USED IN TURF AREAS INCLUDING ALL SEEDING 2A AND SODDING.
  - WEED CONTROL, TEASEL SHOULD BE USED ALONG RIGHT-OF-WAY WHERE PRESENT.
  - SEE LANDSCAPING PLAN (TINLEY PARK) FOR COORDINATION OF SOD PLACEMENT & MULCH METHOD 4.



URS  
100 S. WACKER DR.  
CHICAGO, IL 60606  
TEL 312-939-0000  
FAX 312-939-4988

FILE NAME : DIG0605-SHT-LNDSCP-PHK01.dgn	USER NAME : james.push	DESIGNED - BFH	REVISED - 04/12/2013
SHT_PLAN	PLOT SCALE = 1/80,000 @ 20' / 1" =	DRAWN - BFH	REVISED -
	PLOT DATE = 4/10/2013	CHECKED - MJT	REVISED -
		DATE - 03/13/13	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING, PAVEMENT MARKING AND SIGNING PLAN  
US 45 (LAGRANGE ROAD)**  
SCALE: 1"=50' SHEET NO. 1 OF 6 SHEETS STA. BEGIN TO STA. 42+00.00

F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 415
LA-01			CONTRACT NO. 60F05	
ILLINOIS FED. AID PROJECT				

**LANDSCAPING NOTES:**

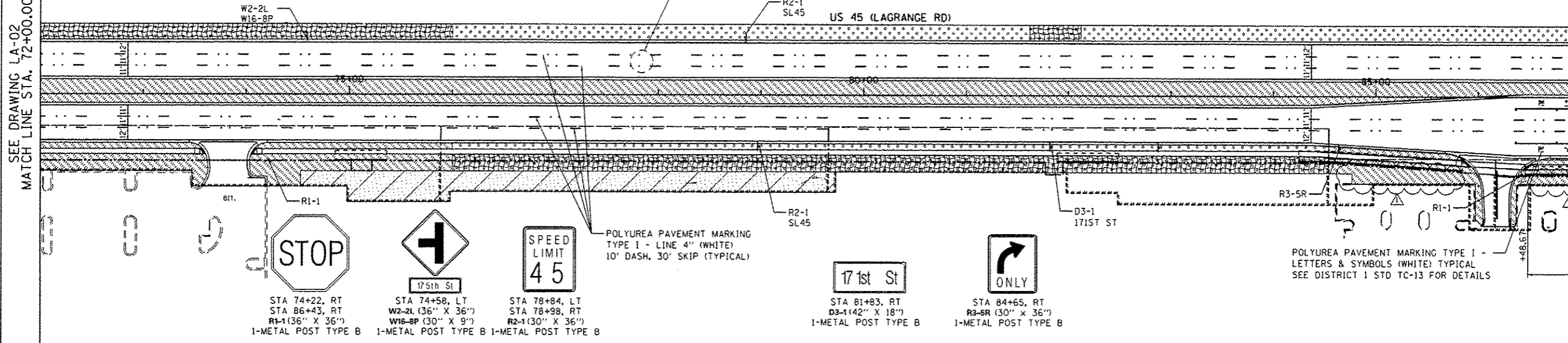
1. PLAN VIEW BREAKS BETWEEN SEEDING TYPES ARE APPROXIMATE. SEE PROPOSED CROSS SECTIONS FOR DETAILS.
2. MULCH METHOD 2 SHALL BE USED AT ALL SEEDING LOCATIONS NOT PROTECTED BY EROSION CONTROL BLANKET. HATCHING HAS BEEN OMITTED FOR CLARITY.
3. WEED CONTROL, NON-SELECTIVE AND NON-RESIDUAL SHOULD BE USED AT ALL SEEDING AND INTERSEEDING CLASS 4 AREAS ADJACENT TO WETLAND AND FOREST PRESERVE.
4. WEED CONTROL, BROADLEAF, SHOULD BE USED IN TURF AREAS INCLUDING ALL SEEDING 2A AND SODDING.
5. WEED CONTROL, TEASEL SHOULD BE USED ALONG RIGHT-OF-WAY WHERE PRESENT.
6. SEE LANDSCAPING PLAN (TINLEY PARK) FOR COORDINATION OF SOD PLACEMENT & MULCH METHOD 4.

**LANDSCAPING LEGEND**

- SEEDING CLASS 2A TOPSOIL, 6"/WEED CONTROL
- SEEDING CLASS 4 TOPSOIL, 6"/WEED CONTROL
- SEEDING CLASS 4B (MOD) TOPSOIL, 6"/WEED CONTROL
- INTERSEEDING, CLASS 4
- SODDING, SALT TOLERANT TOPSOIL, 24" (MEDIAN ONLY)/WEED CONTROL
- TOPSOIL 6" (EXCEPT MEDIAN)/WEED CONTROL
- EROSION CONTROL BLANKET
- SELECTIVE MOWING STAKE WITH WETLAND OR PRAIRIE PLANT SIGN

SEE DRAWING LA-02  
MATCH LINE STA. 72+00.00

MATCH LINE STA. 87+00.00  
SEE BELOW

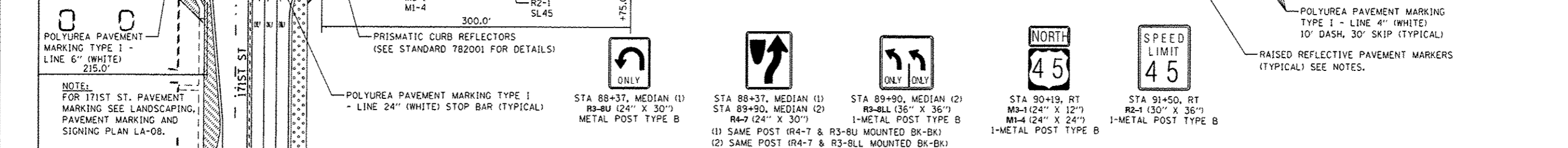


**PAVEMENT MARKING NOTES:**

1. FOR PCC PAVEMENT: POLYUREA PAVEMENT MARKING TYPE I SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
2. FOR HOT-MIX ASPHALT PAVEMENT: THERMOPLASTIC PAVEMENT MARKING SHALL BE USED FOR FINAL PAVEMENT MARKINGS OF THE SIZE AND COLOR SPECIFIED.
3. FOR RAISED REFLECTIVE PAVEMENT MARKERS PLACEMENT, SPACING AND COLOR SEE DISTRICT 1 STANDARD TC-11.

SEE ABOVE  
MATCH LINE STA. 87+00.00

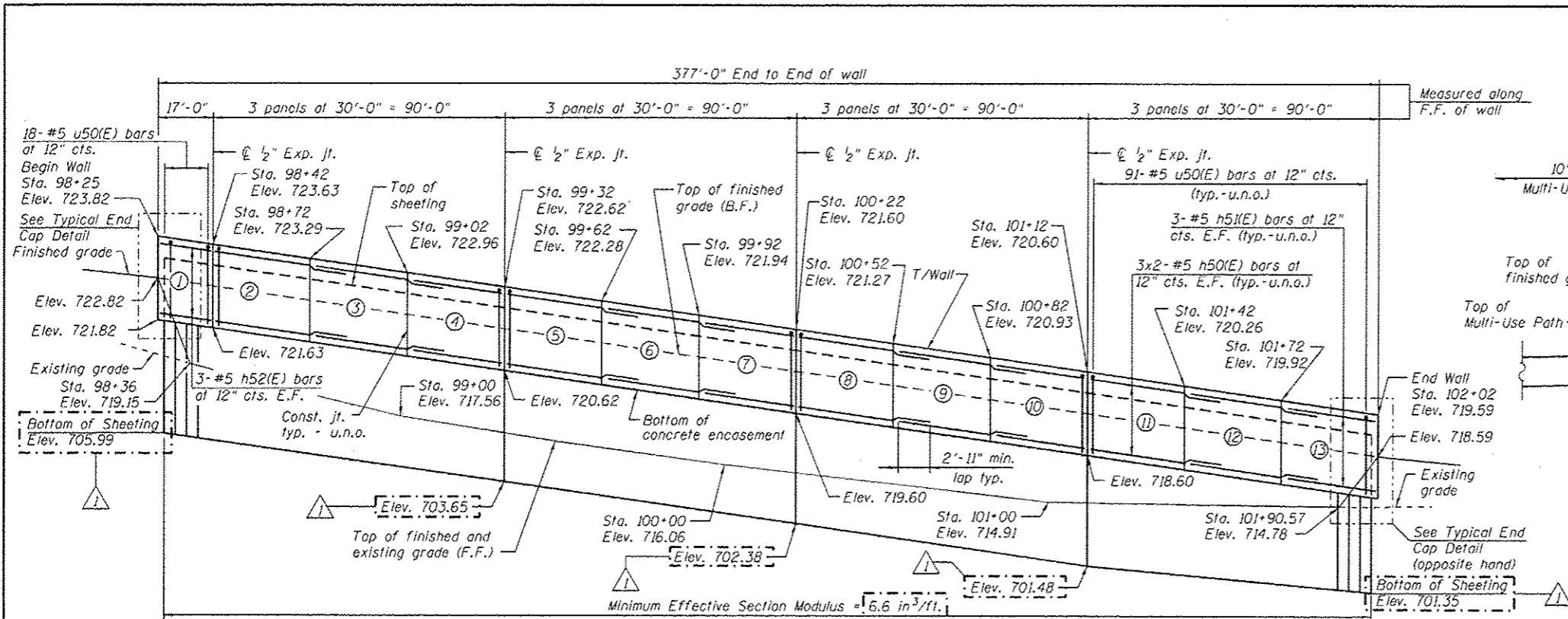
MATCH LINE STA. 102+00.00  
SEE DRAWING LA-04



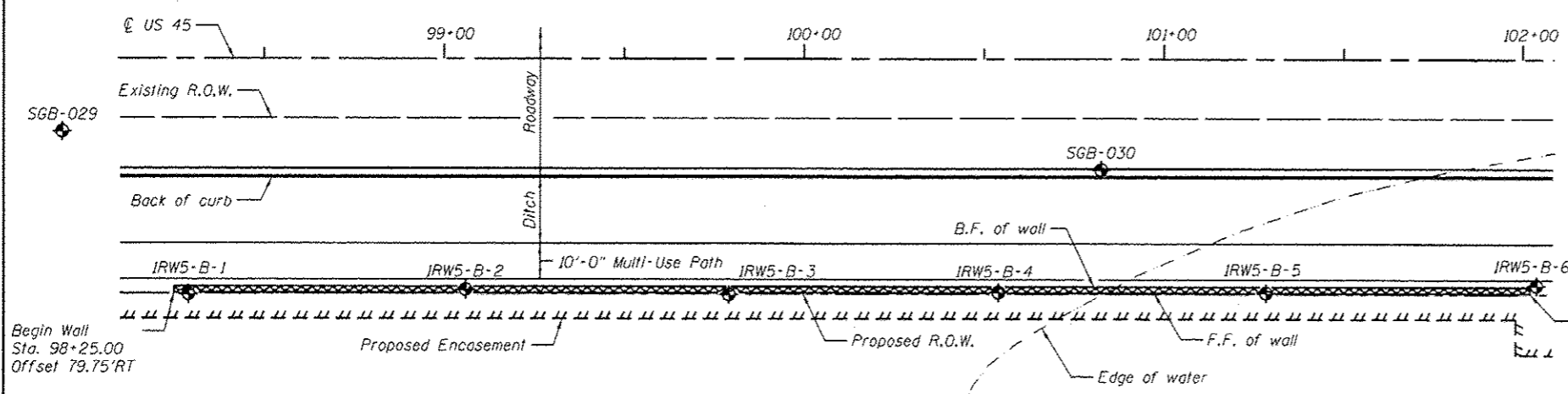
**URS**  
100 S. WACKER DR.  
CHICAGO, IL 60606  
TEL (312) 939-0000  
FAX (312) 939-4198

FILE NAME: D:\608\05-SHT-LANDSCP-PHK03.dgn	USER NAME: james.pugh	DESIGNED - BFH	REVISED - 04/12/2013	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LANDSCAPING, PAVEMENT MARKING AND SIGNING PLAN US 45 (LAGRANGE ROAD)</b>	F.A.P. RTEL: 330	SECTION: 103R-3	COUNTY: COOK	TOTAL SHEETS: 932	SHEET NO.: 417	
SHT. DOUBLE PLAN	PLOT SCALE: 1/8"=1'-0"	CHECKED - MJT	REVISOR -			SCALE: 1"=50'	SHEET: 3 OF 6 SHEETS	STA. 72+00.00 TO STA. 102+00.00	<b>LA-03</b>		CONTRACT NO. 60F05
	PLOT DATE: 4/10/2013	DATE: 03/13/13	REVISOR -			ILLINOIS FED. AID PROJECT					

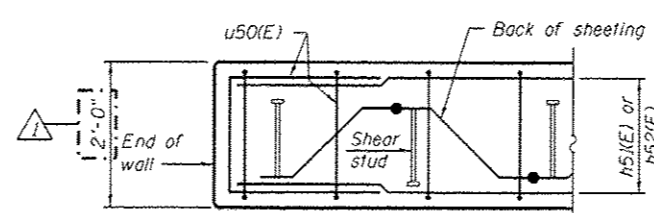




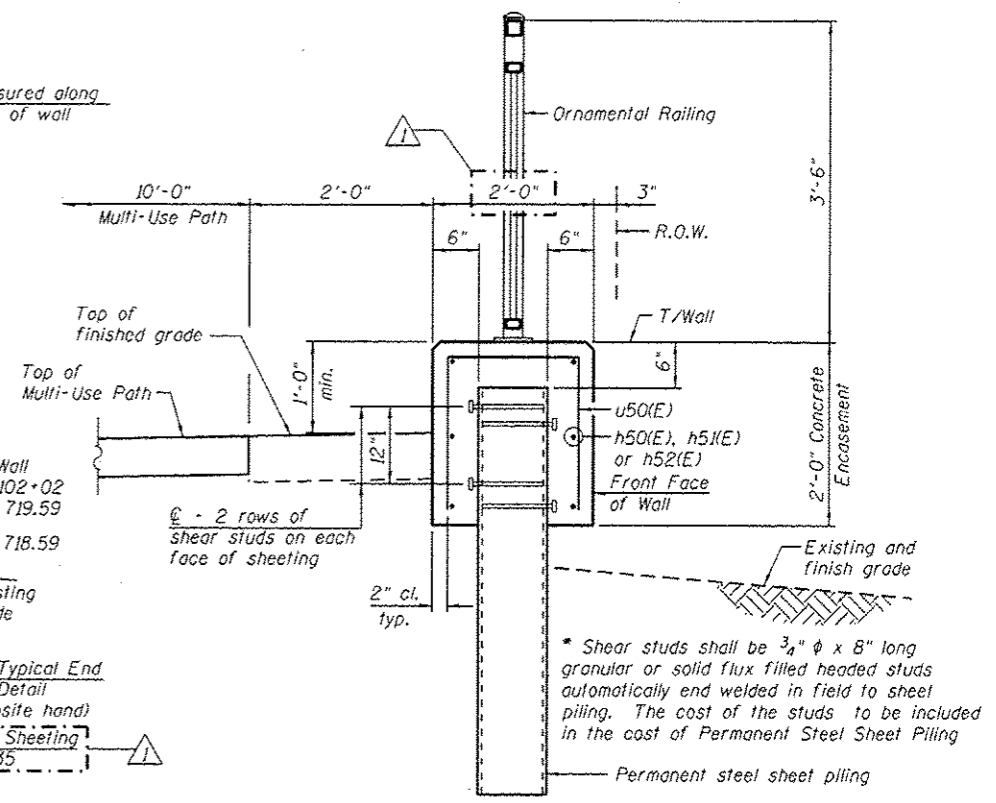
**ELEVATION**  
(Looking West at F.F. of Wall)



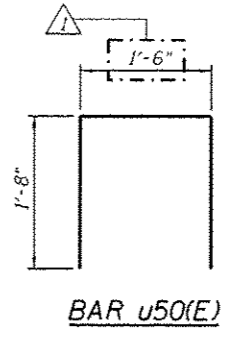
**PLAN**



**PLAN AT END OF WALL**



**TYPICAL SECTION THROUGH WALL**

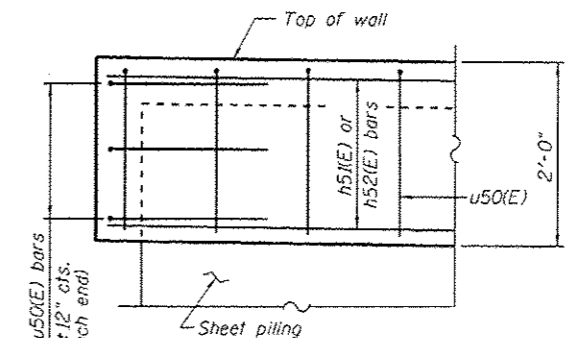


**BAR u50(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h50(E)	48	#5	32'-11"	—
h52(E)	24	#5	29'-8"	—
h52(E)	6	#5	16'-8"	—
u50(E)	388	#5	4'-10"	□
Concrete Structures		Cu. Yd.	55.9	
Reinforcement Bars, Epoxy Coated		Pound	14,460	
Permanent Steel Sheet Piling		Sq. Ft.	6,906	
Ornamental Railing		Foot	377	

Bars indicated thus 3x2-#5 etc. indicates 3 lines of bars with 2 lengths per line.



**TYPICAL END CAP DETAIL**

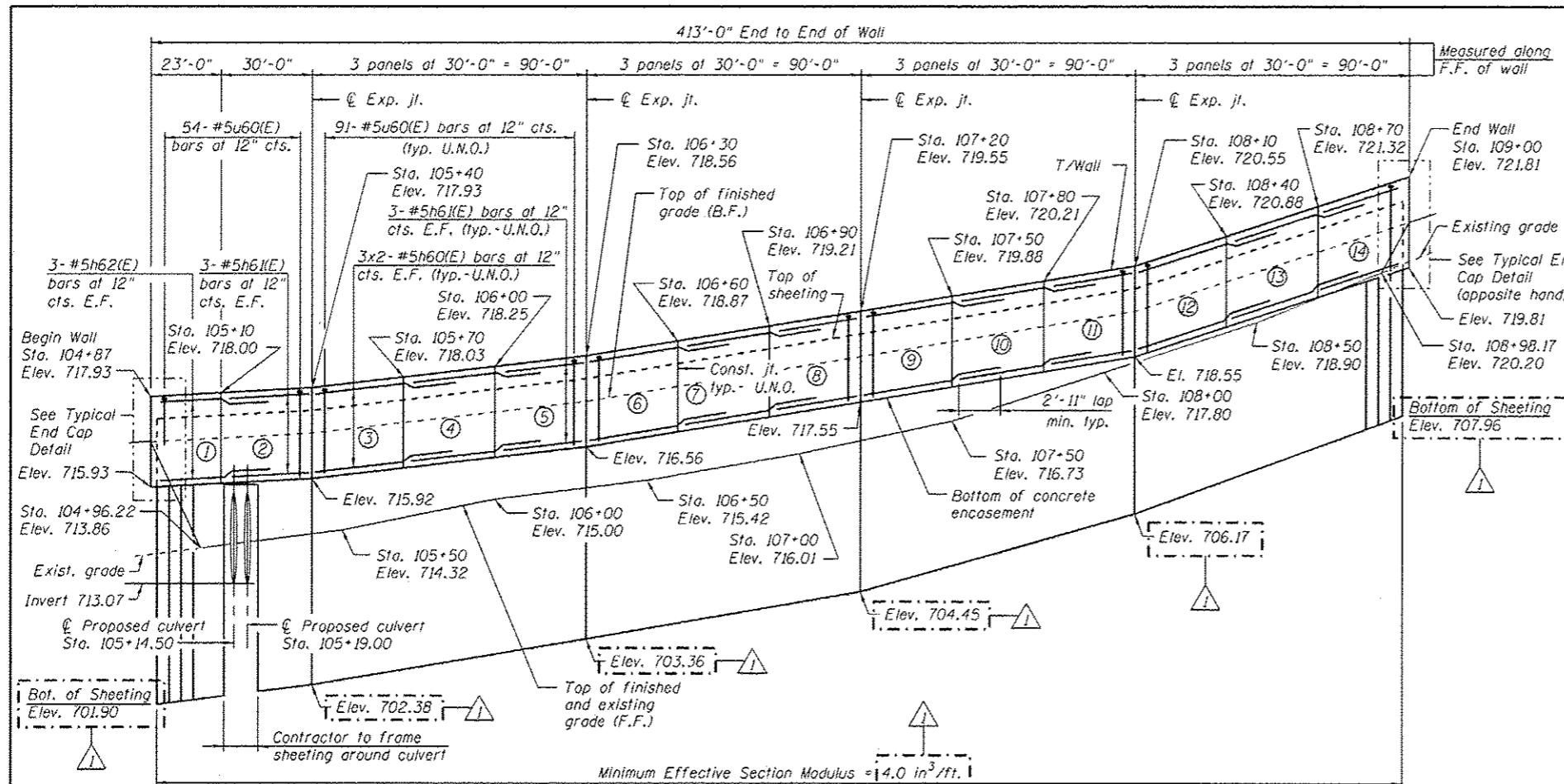
**NOTES:**  
 Wall stations, offsets and dimensions are measured at front face of wall.  
 All exposed corners shall have a 1" chamfer.  
 For General Notes, Wall Key Plan and US 45 Profile, see Sheet 1.  
 For Typical Wall Details and Ornamental Railing see Sheet 2.  
 The details for the concrete cap, reinforcement and required number of shear stud connectors are based on Section AZ 18 sheet piling. If the Contractor chooses to use any other section, then the Contractor shall submit revised concrete cap and reinforcement configuration for approval by the Engineer. Such changes shall not be cause for additional compensation.

**LEGEND**  
 ① - Panel No.  
 ◆ - Soil Boring  
 F.F. - Front Face  
 B.F. - Back Face  
 E.F. - Each Face

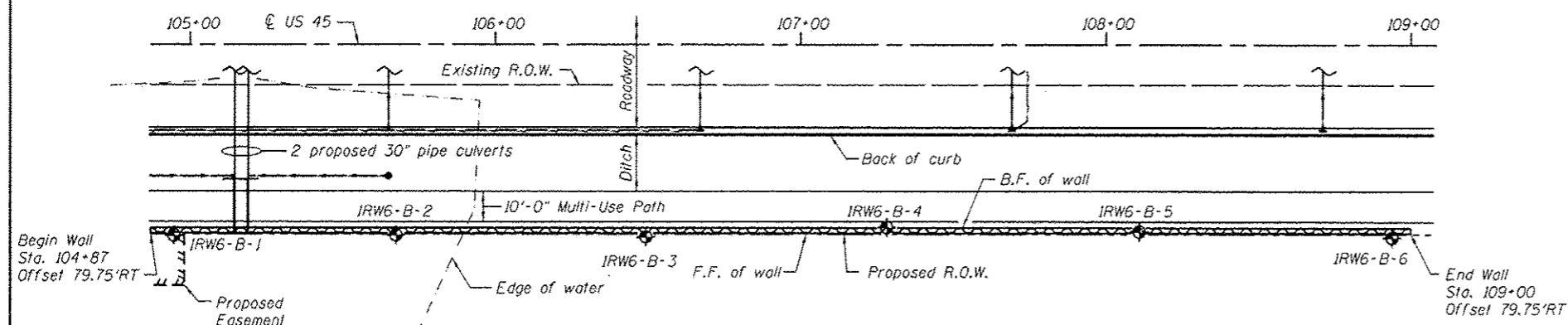
**BAR LAPS**  
 Basic Lap #5 bars - 2'-7"  
 Top Bar Lap #5 bars - 2'-11"

**URS**  
 100 S. WACKER DR.  
 SUITE 500  
 CHICAGO, IL 60606  
 TEL 312/939-1000  
 FAX 312/939-0598

FILE NAME: 0160F05-SHT-Wall.05-1.dgn	USER NAME: oration.khan	DESIGNED: KMP	REVISED: 04/12/2013 K.M.P.	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RETAINING WALL NO. 5 - S.N. 016-2019 STA. 98+25.00 TO 102+02.00</b>	F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 563
PLOT SCALE: 43.33' / in.	DRAWN: KMP	CHECKED: -	REVISOR: -			CONTRACT NO. 60F05				
PLOT DATE: 4/15/2013	CHECKED: -	REVISOR: -	REVISOR: -			ILLINOIS FED. AID PROJECT				
SHEET NO. 8 OF 41 SHEETS										



**ELEVATION**  
(Looking West at F.F. of wall)



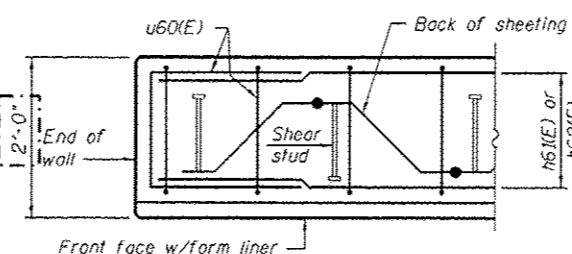
**PLAN**

- LEGEND**
- ① - Panel No.
  - ◆ - Soil Boring
  - F.F. - Front Face
  - B.F. - Back Face
  - E.F. - Each Face

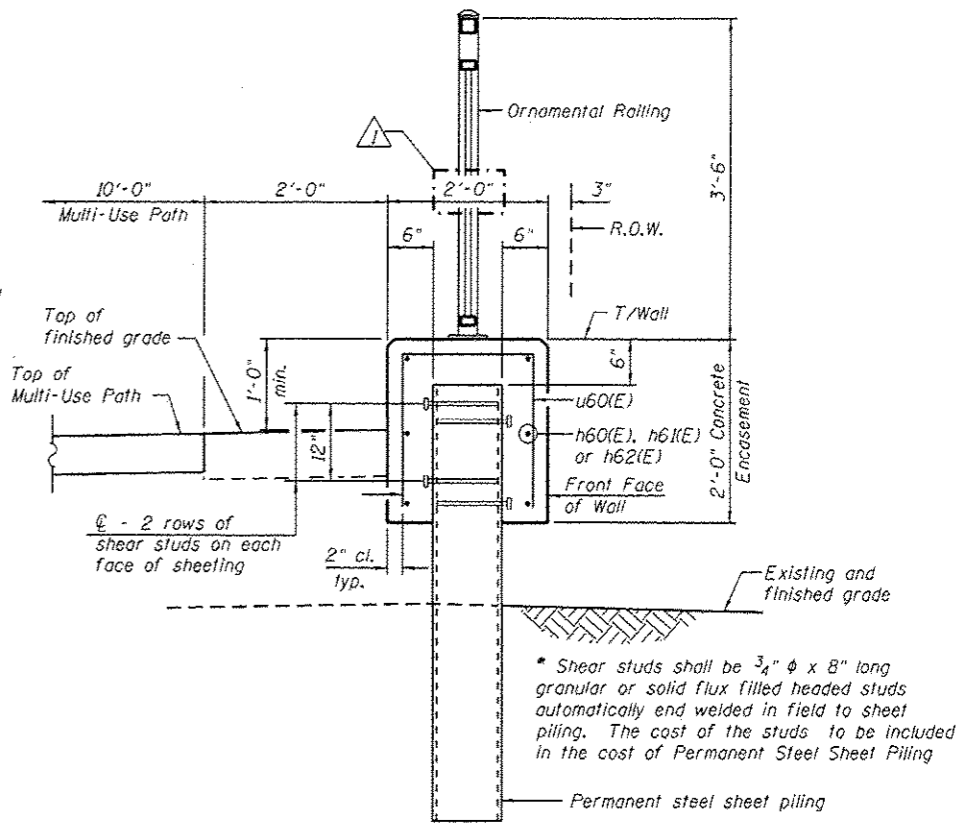
**BAR LAPS**

Basic Lap  
#5 bars - 2'-7"

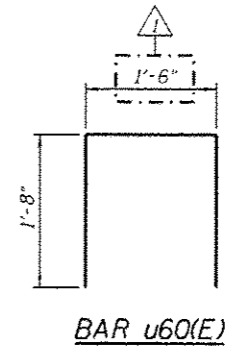
Top Bar Lap  
#5 bars - 2'-11"



**PLAN AT END OF WALL**



**TYPICAL SECTION THROUGH WALL**



**BAR u60(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h60(E)	48	#5	32'-11"	—
h61(E)	30	#5	29'-8"	—
h62(E)	6	#5	25'-11"	—
u60(E)	424	#5	14'-10"	□
Structure Excavation			Cu. Yd.	1
Concrete Structures			Cu. Yd.	61.2
Reinforcement Bars, Epoxy Coated			Pound	4,880
Permanent Steel Sheet Piling			Sq. Ft.	15,965
Ornamental Railing			Foot	413

Bars indicated thus 3x2-#5 etc. indicates 3 lines of bars with 2 lengths per line.

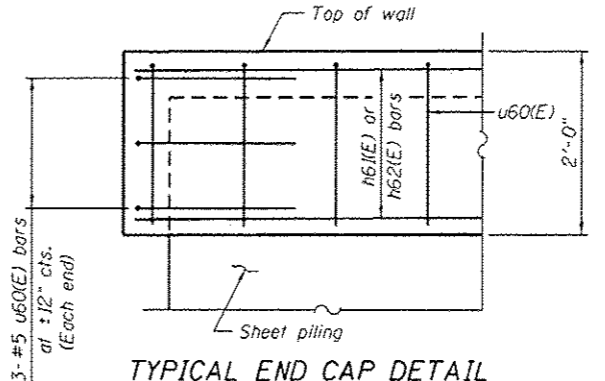
**NOTES:**

Wall stations, offsets and dimensions are measured at front face of wall. All exposed corners shall have a 1" chamfer.

For General Notes, Wall Key Plan and US 45 Profile, see Sheet 1.

For Typical Wall Details and Ornamental Railing see Sheet 2.

The details for the concrete cap, reinforcement and required number of shear stud connectors are based on Section AZ 18 sheet piling. If the Contractor chooses to use any other section, then the Contractor shall submit revised concrete cap and reinforcement configuration for approval by the Engineer. Such changes shall not be cause for additional compensation.



**TYPICAL END CAP DETAIL**

URS  
 100 S. WACKER DR.  
 SUITE 500  
 CHICAGO, IL 60606  
 TEL 312/851-9000  
 FAX 312/851-9008

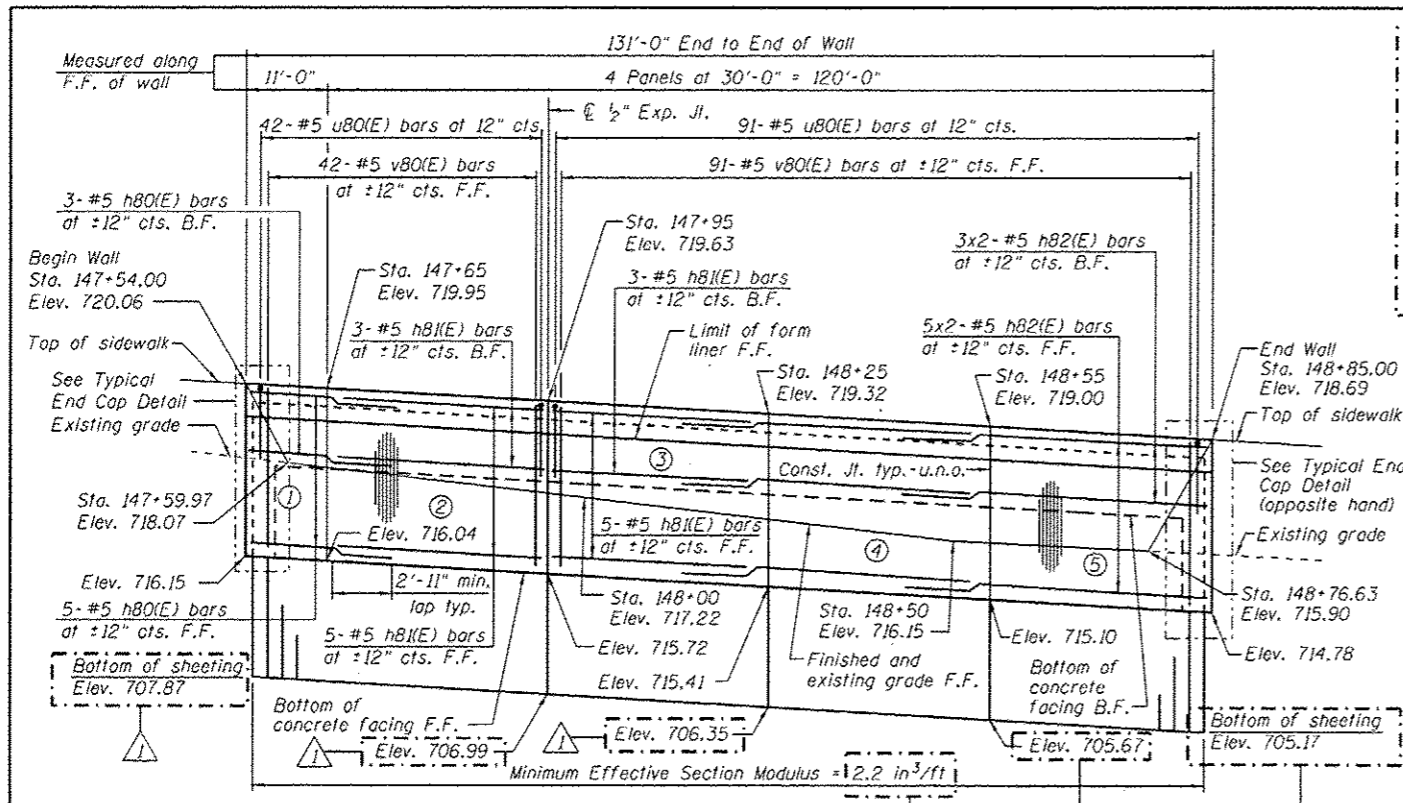
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h80(E)	8	#5	14'-3"	—
h81(E)	16	#5	29'-8"	—
h82(E)	16	#5	32'-11"	—
v80(E)	137	#5	3'-4"	—
u80(E)	143	#5	4'-10"	□
Structure Excavation			Cu. Yd.	44
Concrete Structures			Cu. Yd.	24.6
Form Liner Textured Surface			Sq. Ft.	337
Reinforcement Bars, Epoxy Coated			Pound	12,360
Permanent Sheet Piling			Sq. Ft.	1,624
Ornamental Railing			Foot	131

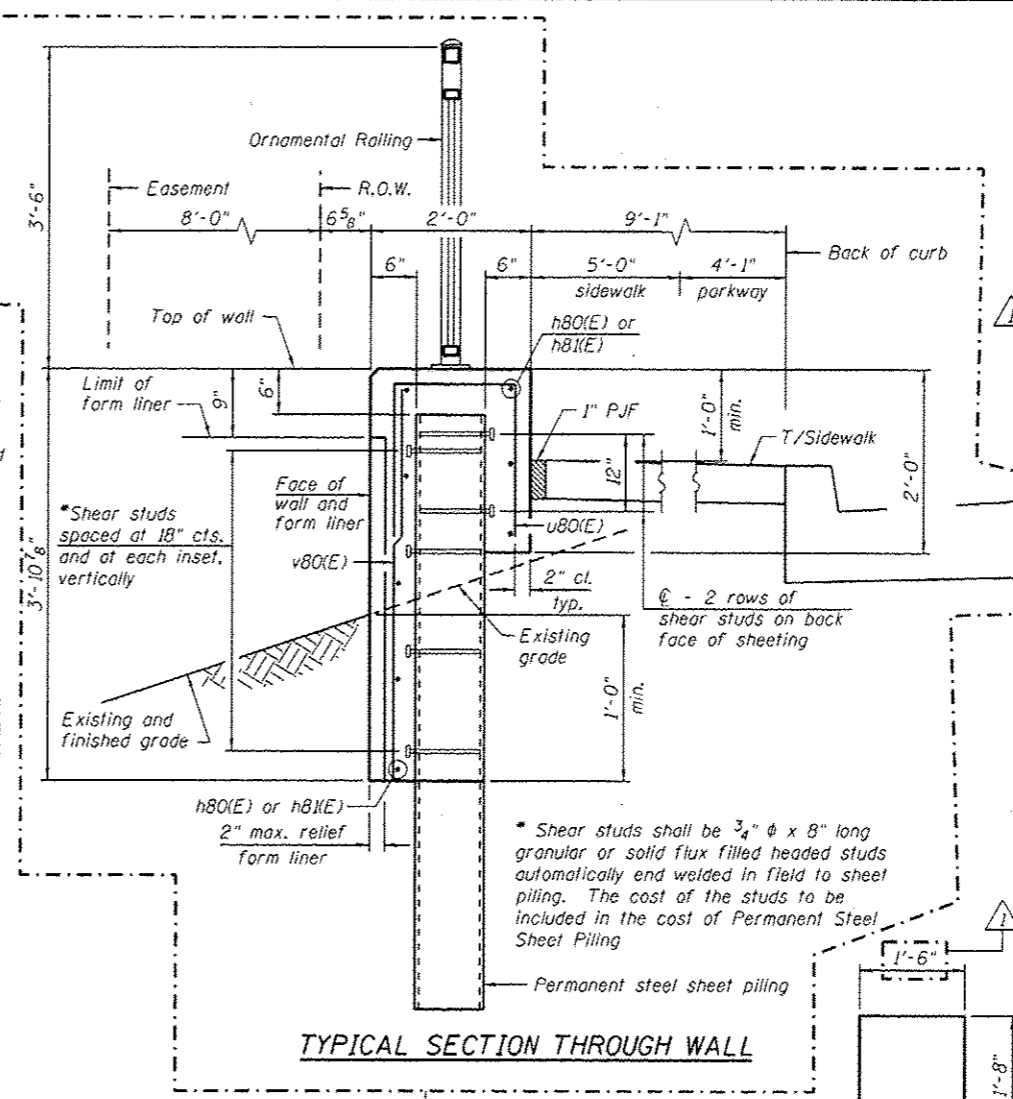
Bars indicated thus 9x2-#5 etc. indicates 9 lines of bars with 2 lengths per line.

**NOTES:**

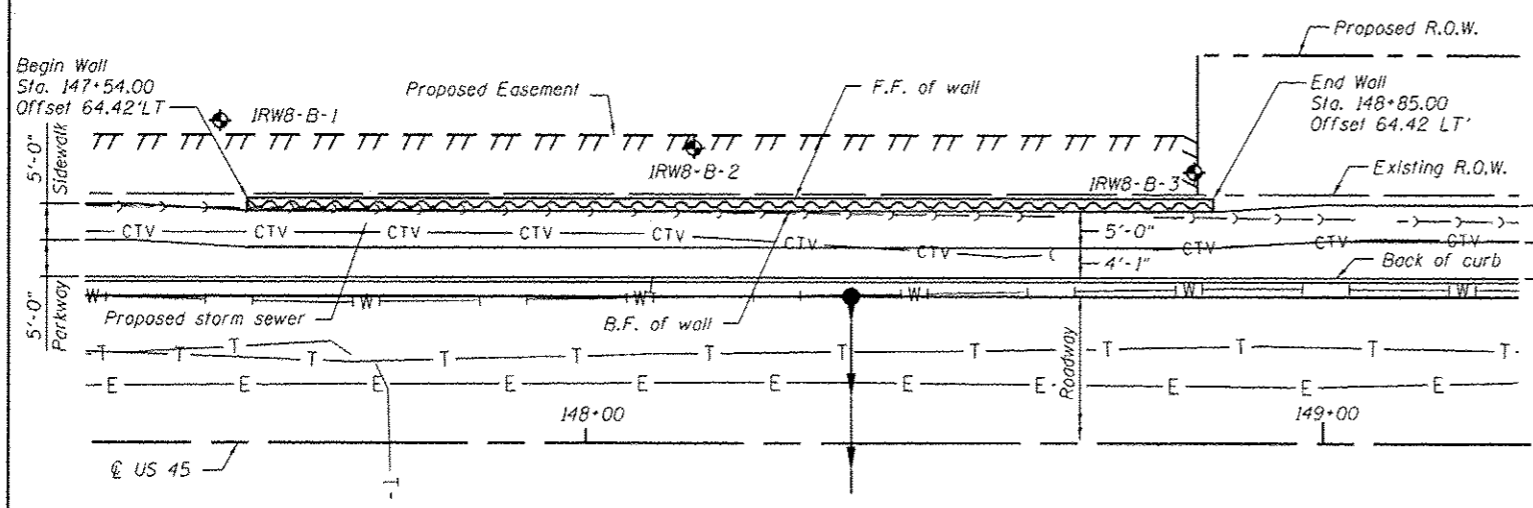
Wall stations, offsets and dimensions are measured at front face of wall.  
 All exposed corners shall have a 1" chamfer.  
 For General Notes, Wall Key Plan and US 45 Profile, see Sheet 1.  
 For Typical Wall Details and Ornamental Railing see Sheet 2.  
 The details for the concrete cap, reinforcement and required number of shear stud connectors are based on Section AZ 18 sheet piling. If the Contractor chooses to use any other section, then the Contractor shall submit revised concrete cap and reinforcement configuration for approval by the Engineer. Such changes shall not be cause for additional compensation.



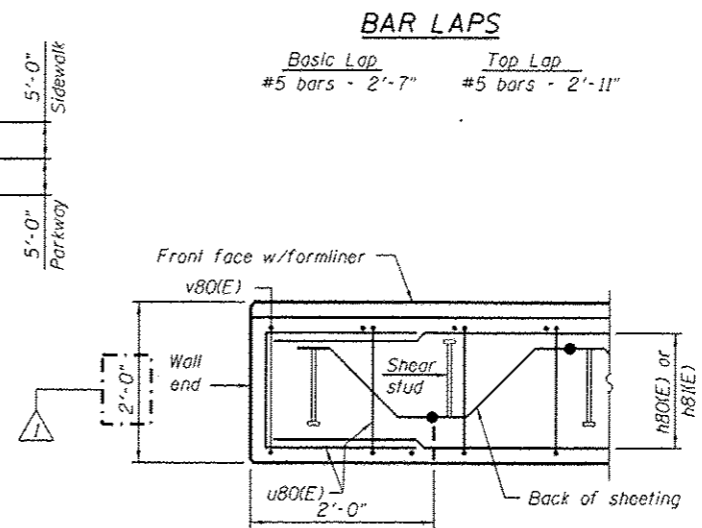
**ELEVATION**  
(Looking West - F.F. of wall shown)



**TYPICAL SECTION THROUGH WALL**

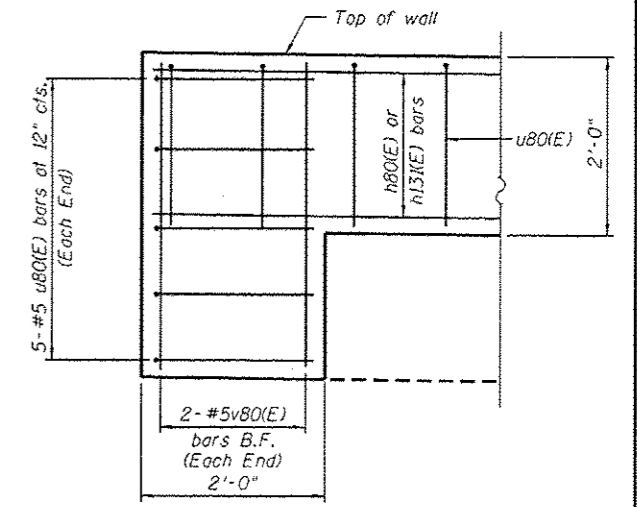


**PLAN**



**PLAN AT END OF WALL**

**BAR u80(E)**



**TYPICAL END CAP DETAIL**  
(v(E) bars in F.F. not shown for clarity)

**BAR LAPS**

Basic Lap	Top Lap
#5 bars - 2'-7"	#5 bars - 2'-11"

- LEGEND**
- ① - Panel No.
  - ◆ - Soil Boring
  - F.F. - Front Face
  - B.F. - Back Face
  - E.F. - Each Face

FILE NAME = D:\060905-SHT-Wall-00-1.dgn	USER NAME = arealen_khon	DESIGNED - KMP	REVISED - 04/12/2013 K.M.P.
		CHECKED -	REVISED -
		DRAWN - KMP	REVISED -
		CHECKED -	REVISED -

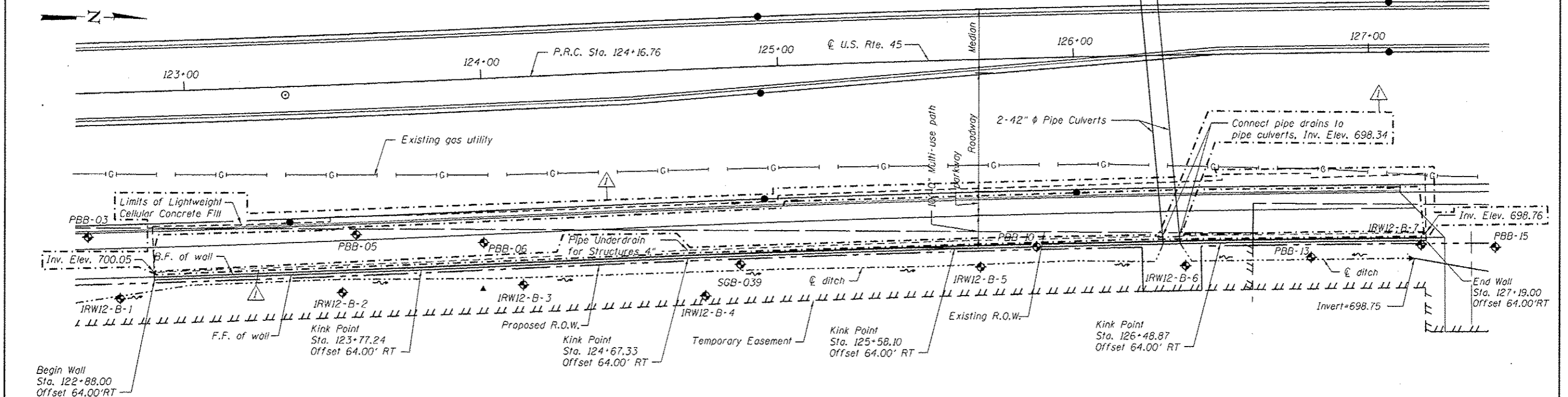
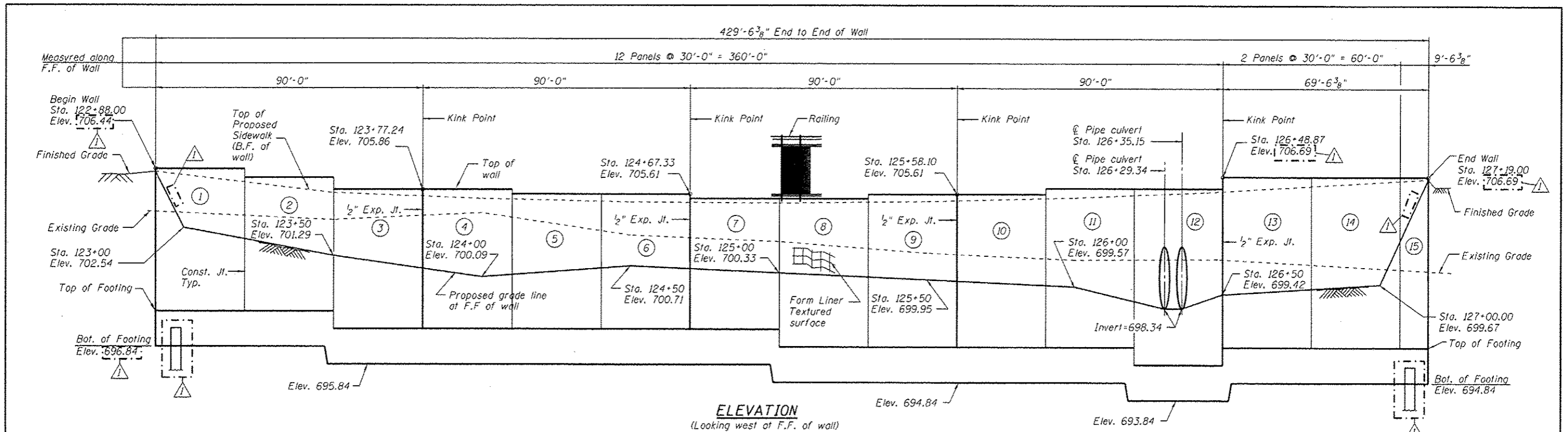
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**RETAINING WALL NO. 8 - S.N. 016-2022**  
**STA. 147+54.00 TO 148+85.00**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
330	103R-3	COOK	932 566
			CONTRACT NO. 60F05
ILLINOIS FED. AID PROJECT			

URS  
100 S. WACKER DR.  
SUITE 500  
CHICAGO, IL 60606  
TEL (312) 959-0000  
FAX (312) 959-9558



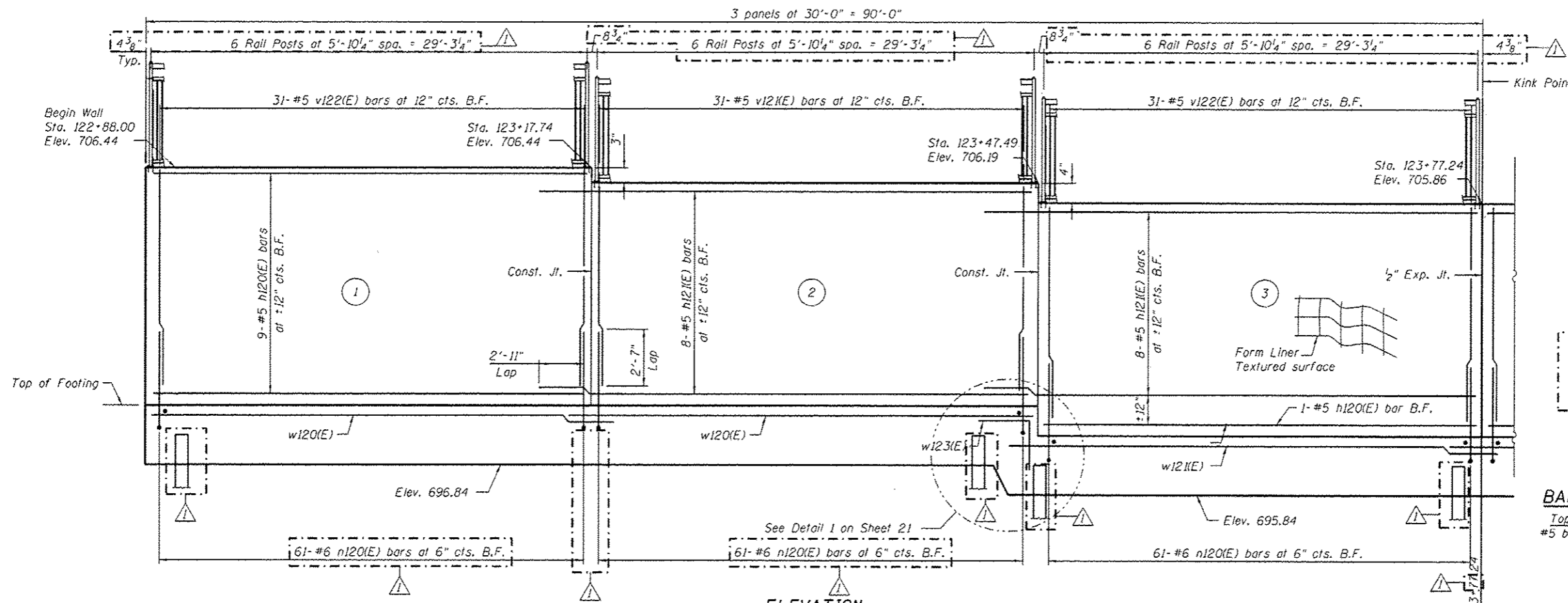


**LEGEND**

- ① - Panel No.
- ◆ - Soil Boring
- F.F. - Front Face
- B.F. - Back Face
- E.F. - Each Face

Notes:  
Wall stations, offsets and dimensions are measured at front face of wall.  
All exposed corners shall have a 1" chamfer.  
For General Notes, Wall Key Plan and US 45 Profile, see Sheet 1.  
For Typical Wall Details and Ornamental Railing see Sheet 2 and Sheet 121.  
Quantities, Reinforcement List and Sections shown on Sheet 121.

FILE NAME : D:\60F05-SHT-Wall12-1.dgn	USER NAME : corolan_khan	DESIGNED : MAI	REVISED : 04/12/2013 K.M.P.	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RETAINING WALL NO. 12 - S.N. 016-2026 STA. 122+88.00 TO 127+19.00</b>	F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 570	
PLOT SCALE : 3/32" = 1' - 0"	DRAWN : MAI	CHECKED : PMH	REVISED :			SHEET NO. 15 OF 41 SHEETS		CONTRACT NO. 60F05		ILLINOIS FED. AID PROJECT	
PLOT DATE : 4/15/2013	CHECKED : PMH	REVISED :	REVISED :								

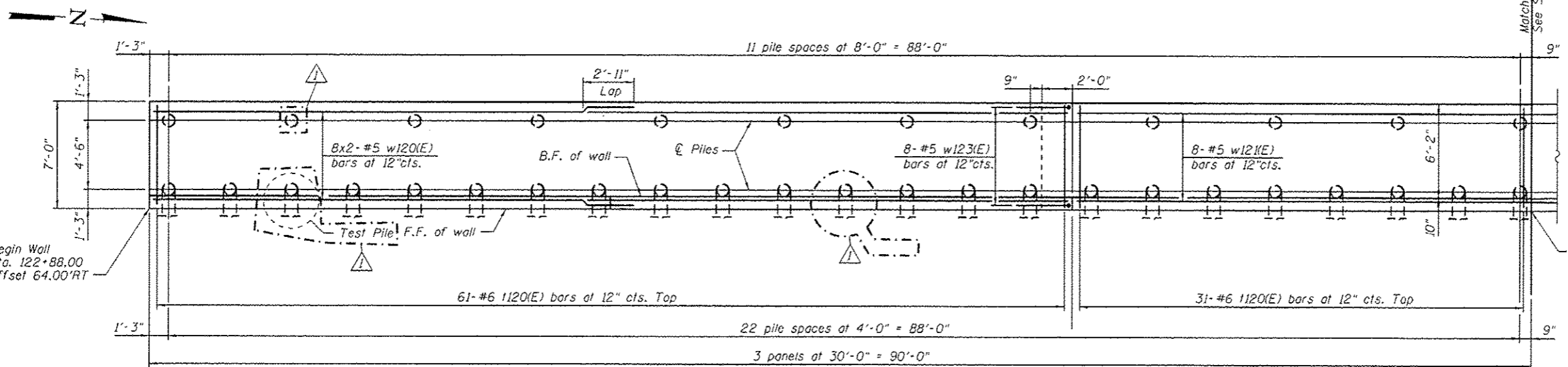


**ELEVATION**  
(Looking west at F.F. of wall)

- LEGEND**
- ① - Panel No.
  - ⊕ - Soil Boring
  - F.F. - Front Face
  - B.F. - Back Face
  - E.F. - Each Face
  - - vertical pile
  - ⊖ - battered pile

- BAR LAPS**
- |                  |                 |
|------------------|-----------------|
| Top Bars         | Other Bars      |
| #5 bars = 2'-11" | #5 bars = 2'-7" |

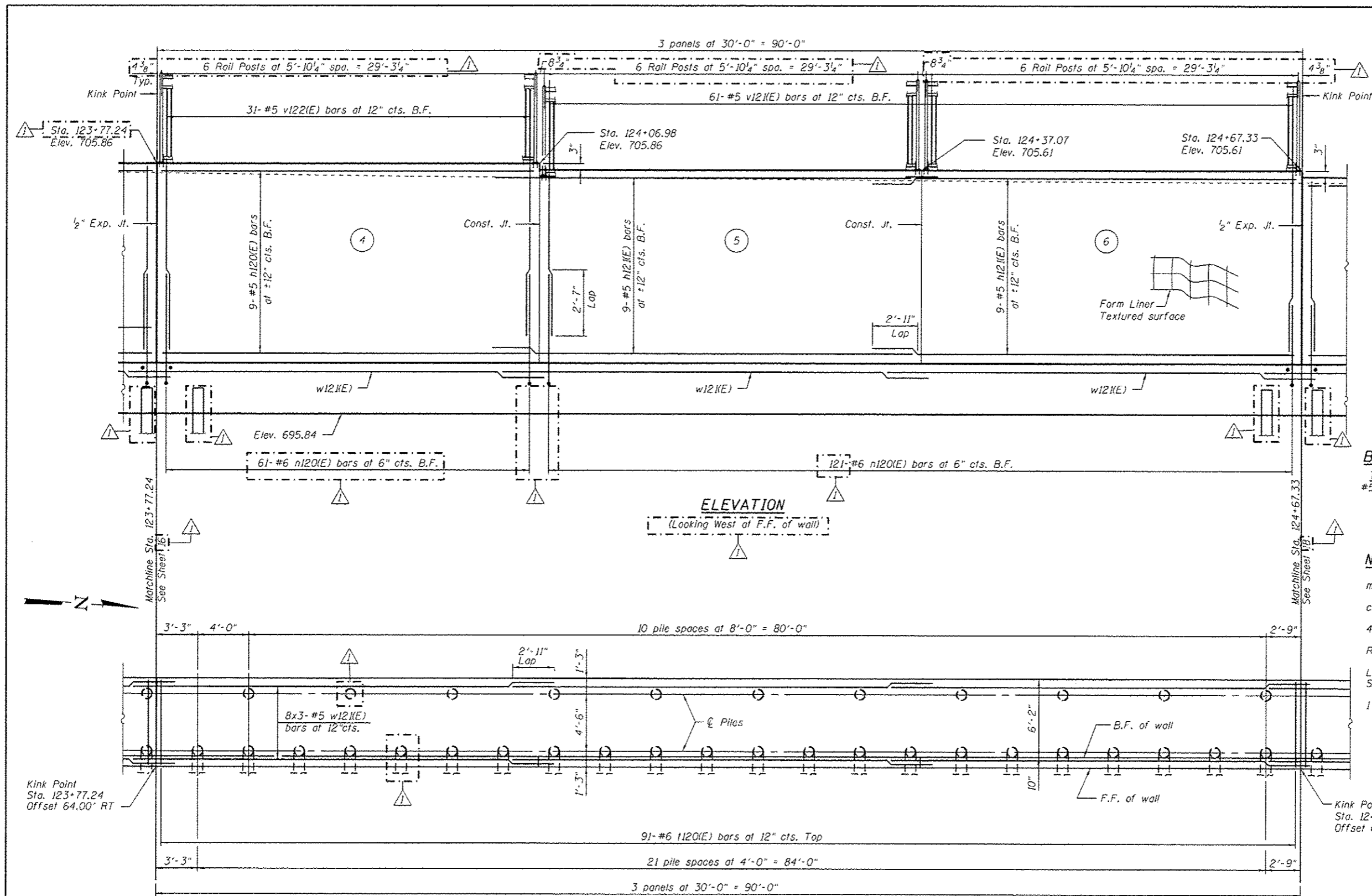
- NOTES**
- Wall stations, offsets and dimensions are measured at front face of wall.
  - All exposed corners shall have a 1" chamfer.
  - For General Notes, Wall Key Plan and US 45 Profile, see Sheet 1.
  - For Typical Wall Details, and Ornamental Railing see Sheet 2 and 12.1.
  - Quantities and Reinforcement List and Sections shown on Sheet 12.1.
  - Bars indicated thus 1x3-#5 etc. indicates 1 line of bars with 3 lengths per line.
  - For Pile Data see Sheet 12.1.



**PLAN**

URS  
400 S. WACKER DR.  
SUITE 500  
CHICAGO, IL 60606  
TEL (312) 939-0000  
FAX (312) 939-9198

FILE NAME = D:\60F05-511-Wall.12-2.dgn	USER NAME = arsalan_khan	DESIGNED - MAI	REVISED - 04/12/2013 K.M.P.	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RETAINING WALL NO. 12 - S.N. 016-2026 STA. 122+88.00 TO 127+19.00</b>	F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 571
PLOT SCALE = 8/8.0000 1" = 8'-0"	DRAWN - MAI	REVISOR -	REVISOR -			CONTRACT NO. 60F05				
PLOT DATE = 4/15/2013	CHECKED - PMH	REVISOR -	REVISOR -			ILLINOIS FED. AID PROJECT				
SHEET NO. 16 OF 41 SHEETS										



- LEGEND**
- ① - Panel No.
  - ⊕ - Soil Boring
  - F.F. - Front Face
  - B.F. - Back Face
  - E.F. - Each Face
  - - vertical pile
  - ⊖ - battered pile

**BAR LAPS**

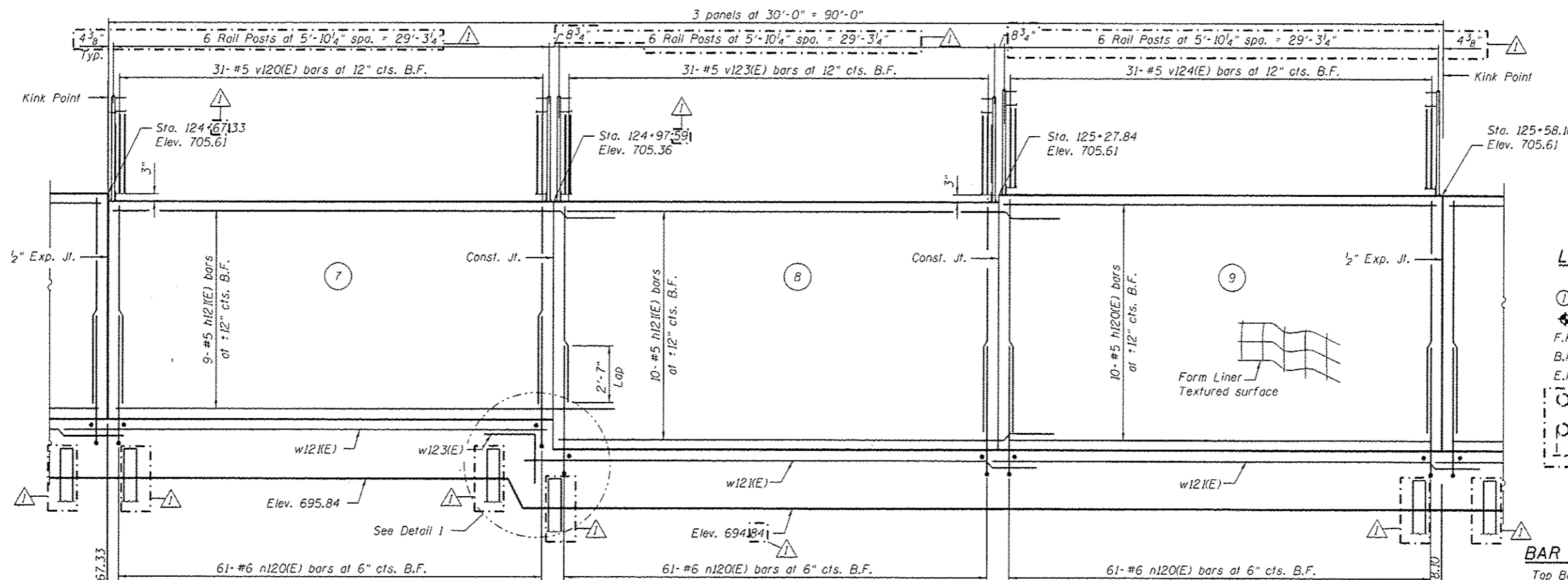
Top Bars      Other Bars  
 #5 bars = 2'-11"      #5 bars = 2'-7"

**NOTES**

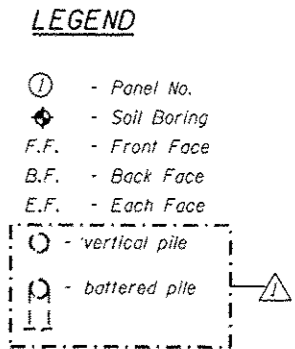
Wall stations, offsets and dimensions are measured at front face of wall.  
 All exposed corners shall have a 1" chamfer.  
 For General Notes, Wall Key Plan and US 45 Profile, see Sheet 1.  
 For Typical Wall Details and Ornamental Railing see Sheet 2 and 12.  
 Quantities and Reinforcement List and Sections shown on Sheet 21.  
 Bars indicated thus 1x3-#5 etc. indicates 1 line of bars with 3 lengths per line.  
 For Pile Data see Sheet 21.

URS  
 800 S. WACKER DR.  
 SUITE 500  
 CHICAGO, IL 60606  
 TEL (312) 939-0000  
 FAX (312) 939-0098

FILE NAME : D:\60F05-SHT-Wall12-3.dgn	USER NAME : arsalan.khan	DESIGNED - MAJ	REVISED - 04/12/2013 K.M.P.	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RETAINING WALL NO. 12 - S.N. 016-2026 STA. 122+88.00 TO 127+19.00</b>	F.A.P. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE : 800.0000 1" = 32'	CHECKED - PMH	REVISED -			330	103R-3	COOK	932	572	
	PLOT DATE : 4/15/2013	DRAWN - MAJ	REVISED -			CONTRACT NO. 60F05					
		CHECKED - PMH	REVISED -			ILLINOIS FED. AID PROJECT					



**ELEVATION**  
(Looking west at F.F. of wall)



**BAR LAPS**

Top Bars	Other Bars
#5 bars = 2'-11"	#5 bars = 2'-7"

**NOTES**

Wall stations, offsets and dimensions are measured at front face of wall. All exposed corners shall have a 1" chamfer.

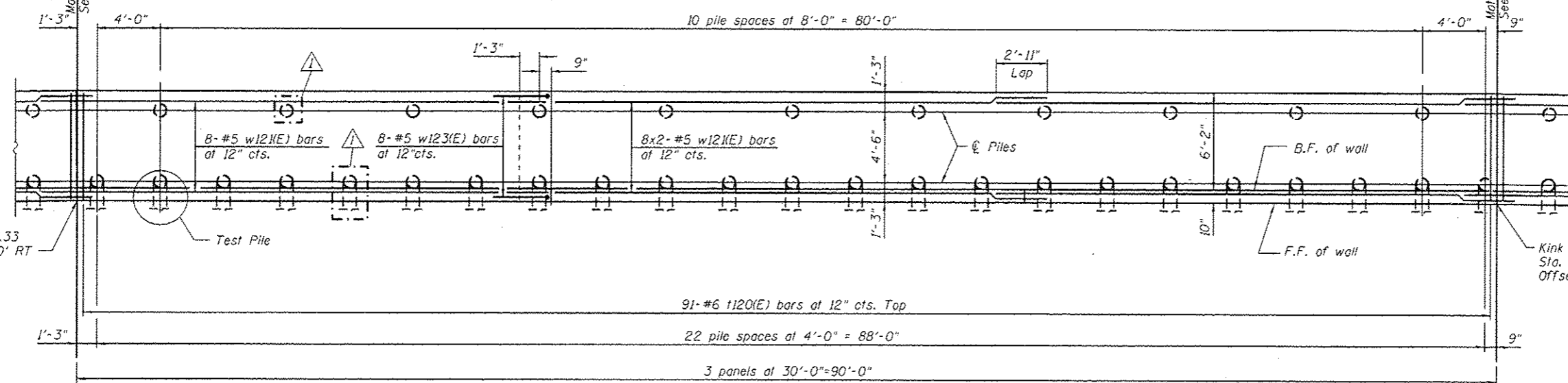
For General Notes, Wall Key Plan and US 45 Profile, see Sheet 1.

For Typical Wall Details and Ornamental Railing see Sheet 2 and 12.1.

Quantities and Reinforcement List and Sections shown on Sheet 12.1.

Bars indicated thus 1x3-#5 etc. indicates 1 line of bars with 3 lengths per line.

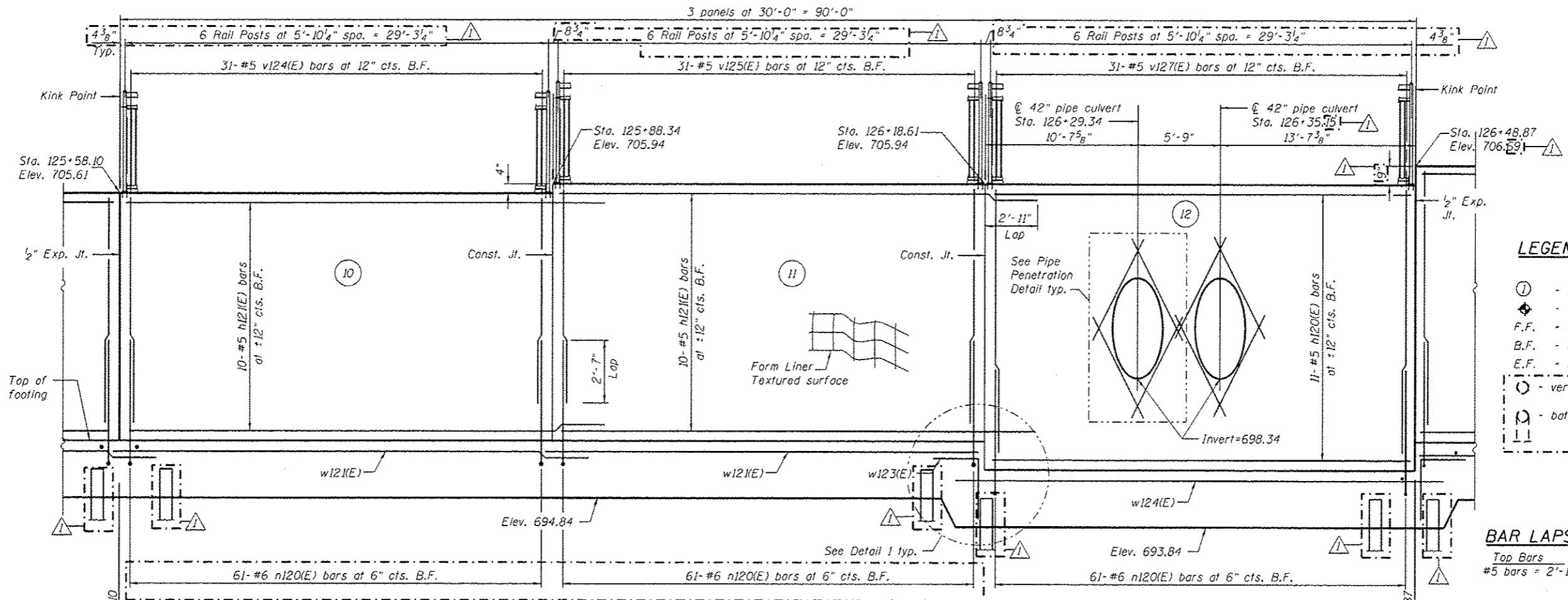
For Pile Data see Sheet 12.1.



**PLAN**

URS  
100 S. WACKER DR.  
SUITE 500  
CHICAGO, IL 60606  
TEL (312) 999-0000  
FAX (312) 999-4988

FILE NAME : 0168F05-SHT-Wall.12-4.dgn	USER NAME : arsalan.khan	DESIGNED - MAI	REVISED - / 04/12/2013 K.M.P.	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RETAINING WALL NO. 12 - S.N. 016-2026 STA. 122+88.00 TO 127+19.00</b>	F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 573
PLOT SCALE : 8x8.0000 1" = 10'	DRAWN - MAI	REVISED -	CONTRACT NO. 60F05							
PLOT DATE : 4/15/2013	CHECKED - PMH	REVISED -	ILLINOIS FED. AID PROJECT							
SHEET NO. 18 OF 41 SHEETS										

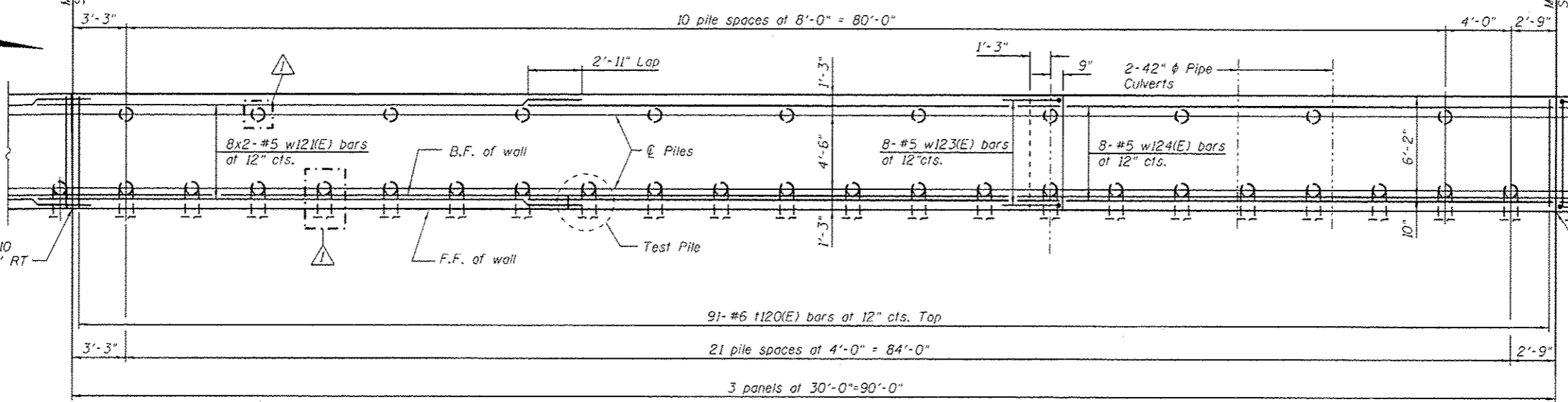


**ELEVATION**  
(Looking west at F.F. of wall)

- LEGEND**
- ⑩ - Panel No.
  - ◆ - Soil Boring
  - F.F. - Front Face
  - B.F. - Back Face
  - E.F. - Each Face
  - - vertical pile
  - ⊖ - battered pile

- BAR LAPS**
- Top Bars #5 bars = 2'-11"
  - Other Bars #5 bars = 2'-7"

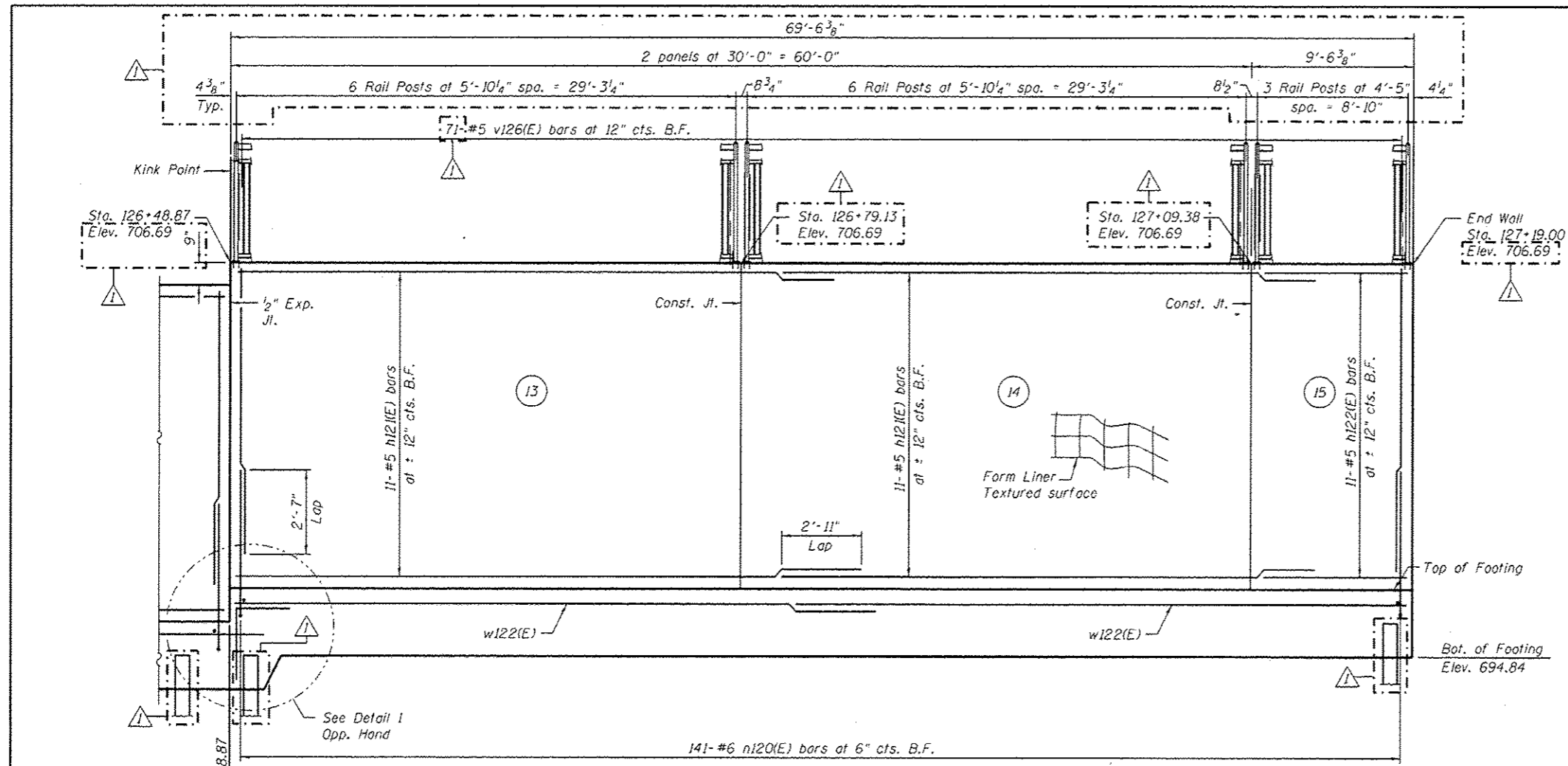
- NOTES**
- Wall stations, offsets and dimensions are measured at front face of wall.
  - All exposed corners shall have a 1" chamfer.
  - For General Notes, Wall Key Plan and US 45 Profile, see Sheet 1.
  - For Typical Wall Details and Ornamental Railing see Sheet 2 and 12.1.
  - Quantities and Reinforcement List and Sections shown on Sheet 12.1.
  - Bars indicated thus 1x3-#5 etc. indicates 1 line of bars with 3 lengths per line.
  - For Pile Data see Sheet 12.1.



**PLAN**

URS  
 100 S. WACKER DR.  
 SUITE 500  
 CHICAGO, IL 60606  
 TEL (312) 939-0000  
 FAX (312) 939-4588

FILE NAME : DIG0F05-SH1-Wall.12-5.dgn	USER NAME : arsalan_khan	DESIGNED - MAI	REVISD - 04/12/2013 K.M.P.	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RETAINING WALL NO. 12 - S.N. 016-2026 STA. 122+88.00 TO 127+19.00</b>	F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 574
PLDT SCALE : 8x8.0000 1" = 8'	DRAWN - MAI	REVISD -	CONTRACT NO. 60F05							
PLDT DATE : 4/15/2013	CHECKED - PMH	REVISD -	ILLINOIS FED. AID PROJECT							
SHEET NO. 19 OF 41 SHEETS										



**ELEVATION**  
(Looking west at F.F. of wall)

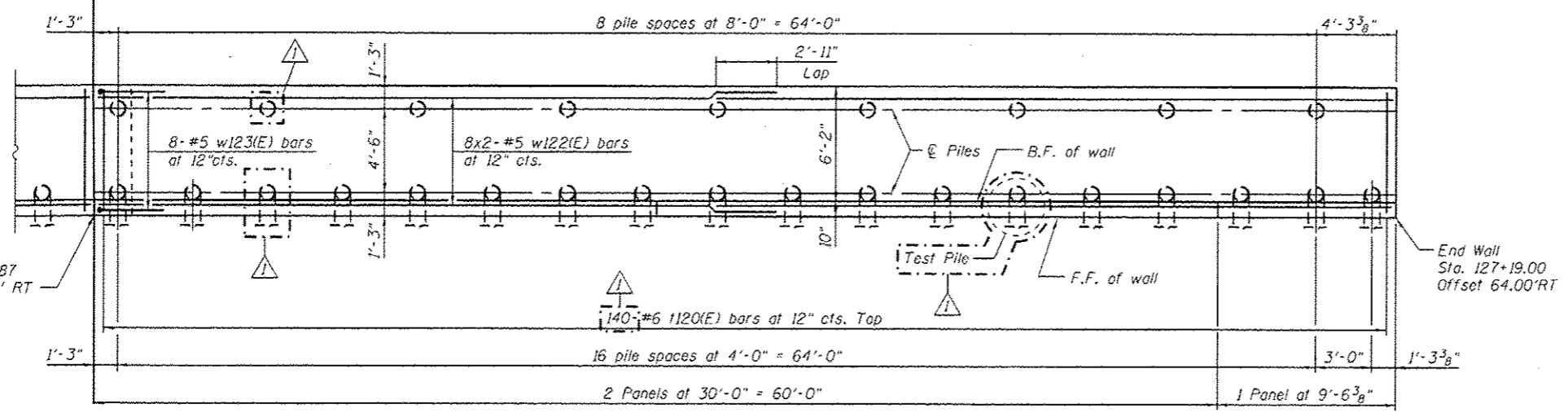
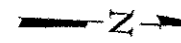
- LEGEND**
- ① - Panel No.
  - ◆ - Soil Boring
  - F.F. - Front Face
  - B.F. - Back Face
  - E.F. - Each Face
  - - vertical pile
  - ⊖ - battered pile

**BAR LAPS**

Top Bars	Other Bars
#5 bars = 2'-11"	#5 bars = 2'-7"

**NOTES**

Wall stations, offsets and dimensions are measured at front face of wall.  
All exposed corners shall have a 1" chamfer.  
For General Notes, Wall Key Plan and US 45 Profile, see Sheet 1.  
For Typical Wall Details and Ornamental Railing see Sheet 2 and 2.1.  
Quantities and Reinforcement List and Sections shown on Sheet 2.1.  
Bars indicated thus 1x3-#5 etc. indicates 1 line of bars with 3 lengths per line.  
For Pile Data see Sheet 2.1.



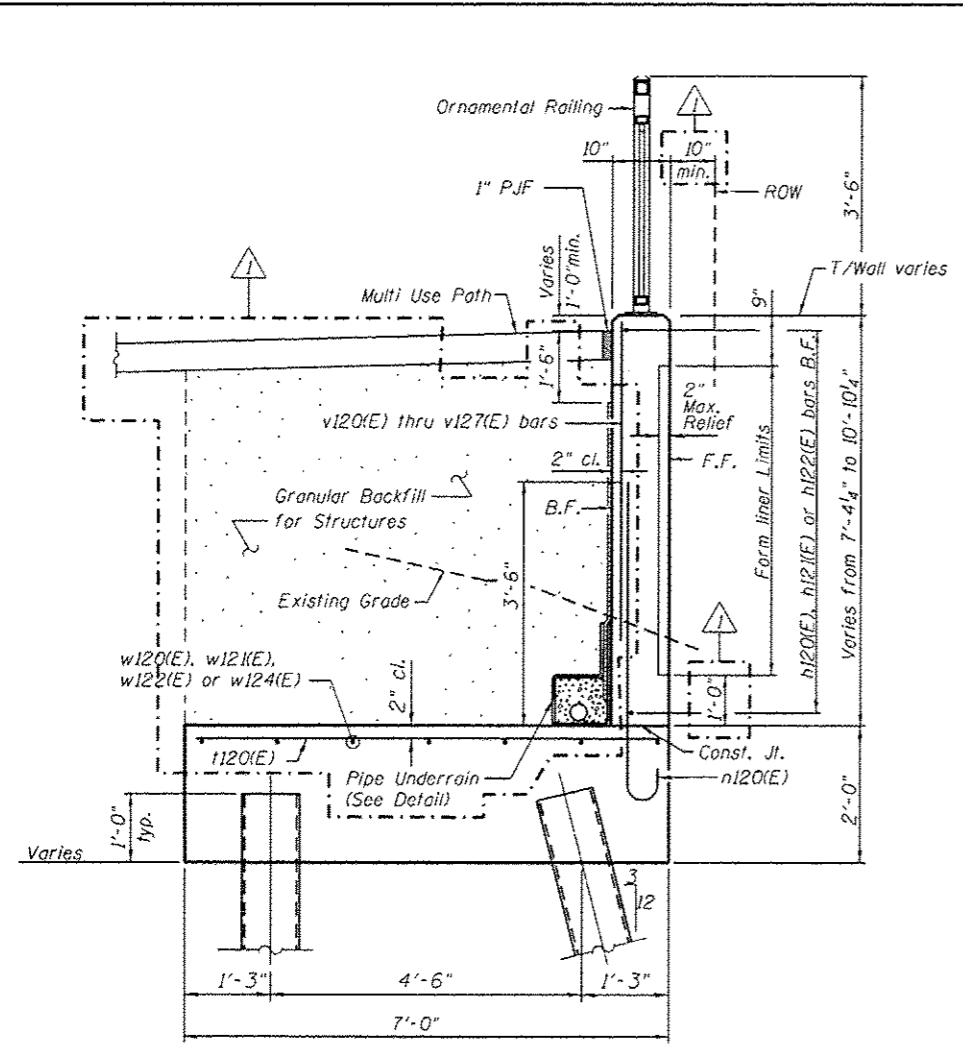
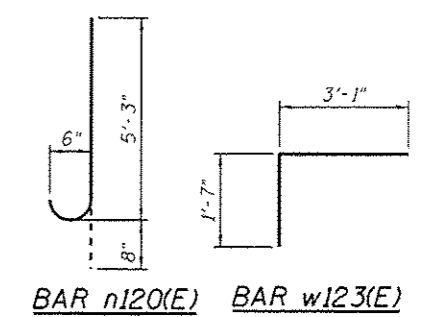
**PLAN**

URS  
 800 S. WACKER DR.  
 SUITE 500  
 CHICAGO, IL 60606  
 TEL (312) 939-0000  
 FAX (312) 939-4188

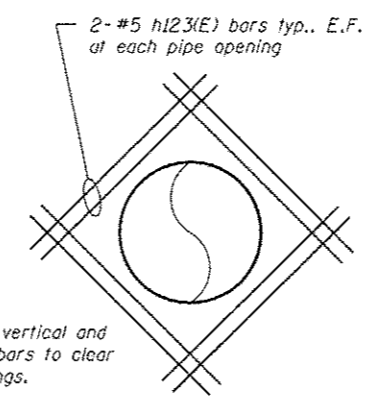
FILE NAME : D:\08\05-SHT-Well.12-6.dgn	USER NAME : arslan_khan	DESIGNED - MAI	REVISED - 04/12/2013 K.M.P.	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RETAINING WALL NO. 12 - S.N. 016-2026 STA. 122 + 88.00 TO 127 + 19.00</b>	F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 575		
	PLOT SCALE : 8/8,0000 1" = 10'	CHECKED - PMH	REVISED -			CONTRACT NO. 60F05		ILLINOIS FED. AID PROJECT				
	PLOT DATE : 4/15/2013	DRAWN - MAI	REVISED -									
		CHECKED - PMH	REVISED -									

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h120(E)	40	#5	29'-8"	
h121(E)	95	#5	33'-1"	
h122(E)	11	#5	9'-2"	
h123(E)	32	#5	4'-2"	
n120(E)	872	#6	5'-11"	
v120(E)	31	#5	6'-9"	
v121(E)	92	#5	6'-10"	
v122(E)	93	#5	7'-2"	
v123(E)	31	#5	7'-6"	
v124(E)	62	#5	7'-9"	
v125(E)	31	#5	8'-2"	
v126(E)	71	#5	8'-10"	
v127(E)	31	#5	9'-2"	
i120(E)	505	#6	6'-8"	
w120(E)	16	#5	31'-6"	
w121(E)	72	#5	33'-0"	
w122(E)	16	#5	36'-1"	
w123(E)	32	#5	4'-8"	
w124(E)	8	#5	35'-10"	
Structure Excavation		Cu. Yd.	1.186	
Concrete Structures		Cu. Yd.	338.4	
Form Liner Textured Surface		Sq. Ft.	2,913	
Reinforcement Bars, Epoxy Coated		Pound	125,160	
Furnishing Metal Shell Piles 12" x 0.179"		Foot	3,332	
Driving Piles		Foot	3,332	
Test Pile Metal Shells		Each	4	
Geocomposite Wall Drain		Sq. Yd.	318	
Lightweight Cellular Concrete Fill		Cu. Yd.	1,438	
Granular Backfill for Structures		Cu. Yd.	645	
Ornamental Railing		Foot	430	
Pipe Underdrains for Structures 4"		Foot	430	

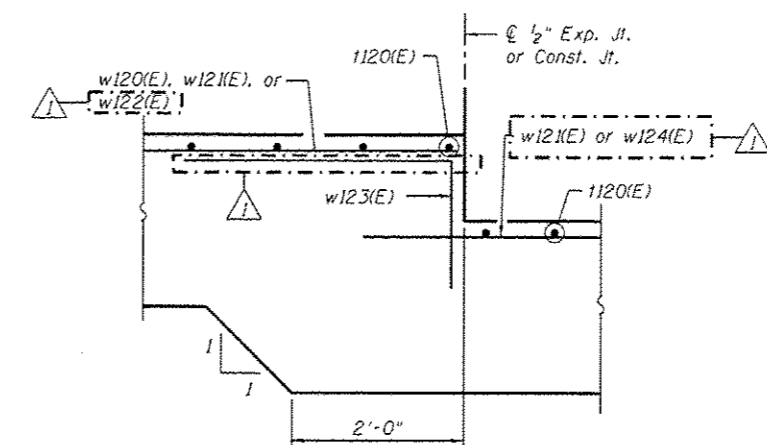


**TYPICAL SECTION THRU WALL**

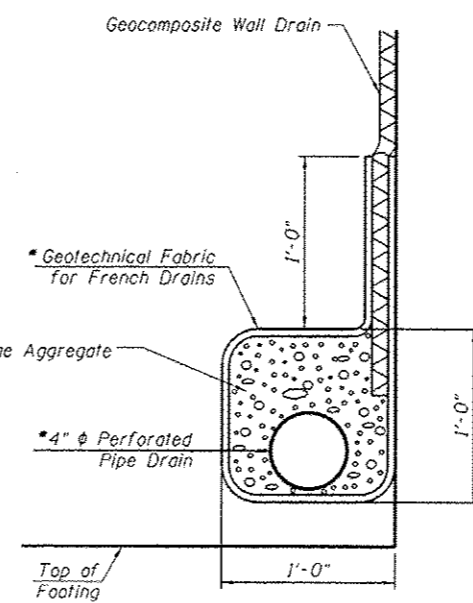


**PIPE PENETRATION DETAIL**

Note: Trim vertical and horizontal bars to clear pipe openings.

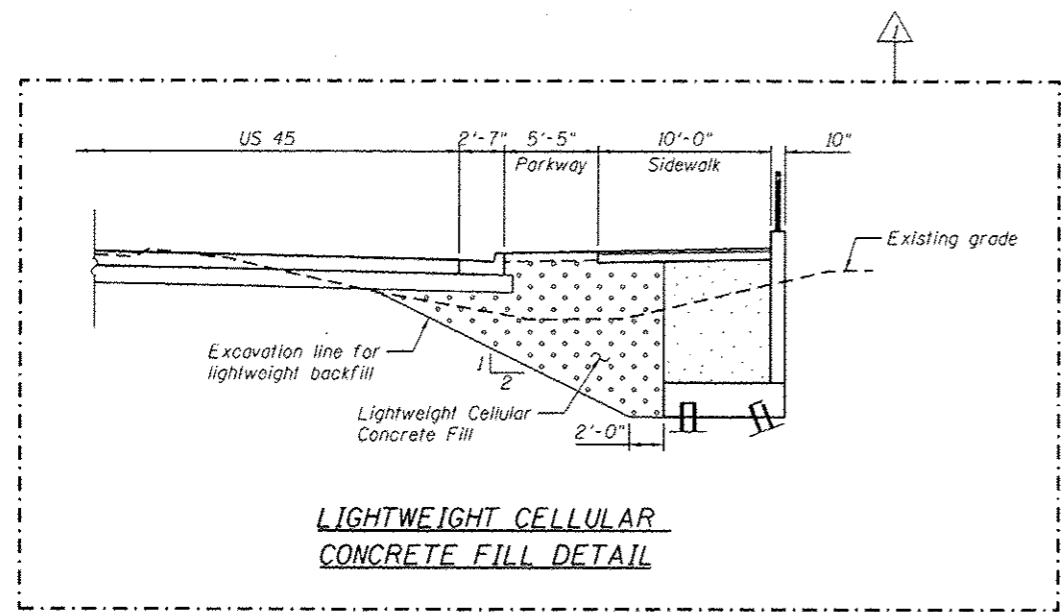


**DETAIL 1**



**PIPE UNDERDRAIN DETAIL**

\* Included in the cost of "Pipe Underdrains for Structures 4".



**LIGHTWEIGHT CELLULAR CONCRETE FILL DETAIL**

**PILE DATA**

(Sta. 122+88.00 to 123+13.50 and Sta. 125+19.50 to 126+73.50)

Type : 12" Metal Shell Piles  
 Nominal Required Bearing: 120 kips  
 Allowable Resistance Available: 40 kips  
 Est. Length: 24 ft (Vertical)  
 Est. Length: 25 ft (Battered)  
 No. Test Piles: 2

**PILE DATA**

(Sta. 123+13.50 to 125+19.50 and Sta. 126+73.50 to 127+19.00)

Type : 12" Metal Shell Piles  
 Nominal Required Bearing: 120 kips  
 Allowable Resistance Available: 40 kips  
 Est. Length: 18 ft (Vertical)  
 Est. Length: 19 ft (Battered)  
 No. Test Piles: 2

URS  
 420 S. WACKER DR.  
 SUITE 500  
 CHICAGO, IL 60606  
 TEL (312) 939-0000  
 FAX (312) 939-4188

FILE NAME : DIGR05-SHT-Wall1,12-7.dgn	USER NAME : arsan_khan	DESIGNED - MAI	REVISION - 04/12/2013 K.M.P.
		CHECKED - PMH	REVISION -
		DRAWN - MAI	REVISION -
		CHECKED - PMH	REVISION -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

RETAINING WALL NO. 12 - S.N. 016-2026  
 STA. 122+88.00 TO 127+19.00

F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 576
CONTRACT NO. 60F05				ILLINOIS FED. AID PROJECT

SHEET NO. 21 OF 41 SHEETS

Notes:  
 Wall stations, offsets and dimensions are measured at front face of wall.  
 All exposed corners shall have a 1" chamfer.  
 For General Notes, Wall Key Plan and US 45 Profile, see Sheet 1.  
 For Typical Wall Details and Ornamental Railing see Sheet 2.

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**BORING LOG 1RW12-B-6** Page 1 of 1

WEI Job No.: 201-40-01  
 Client: McDonough Associates Inc.  
 Project: US 45, Segment 1  
 Location: Ret. Wall 12, Cook Co., T36N, R12E

Date: 09/19/2011  
 Elevation: 701.40 ft  
 North: 1792481.81 ft  
 East: 1116672.42 ft  
 Station: 12+36.57  
 Offset: 71.81 ft

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Value (blows/ft)	Moisture Content (%)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Value (blows/ft)	Moisture Content (%)
701.40	Medium stiff to stiff, dark brown SILTY CLAY LOAM -TOPSOIL-	0.75	1	20		Wet SAND	0.75	1	20	
699.65		1.64	2	35		Very stiff, gray, SILTY CLAY, trace gravel	1.64	2	35	
697.90	Soft, gray organic SILTY CLAY -L(%)=62, P(%)=23- -%Gravel=0.6- -%Sand=2.5- -%Silt=94.4- -%Clay=92.4- -A-7-5 (43)-	0.25	3	56			0.25	3	56	
696.15		0.25	4	66			0.25	4	66	
694.40		0.49	5	23			0.49	5	23	
692.65	Medium stiff to very stiff, gray SILTY CLAY, trace gravel	0.74	6	21			0.74	6	21	
690.90		3.03	7	89			3.03	7	89	
689.15		3.44	8	20			3.44	8	20	
687.40		3.03	9	19			3.03	9	19	
685.65		3.20	10	18			3.20	10	18	

**GENERAL NOTES**

Began Drilling: 09-19-2011 Complete Drilling: 09-19-2011  
 Drilling Contractor: WTS Drill Rig: D-50 TMR  
 Driller: K&K Logger: B. Wilson Checked by: C. Marin  
 Drilling Method: 3.25" DAHSA; Boring backfilled upon completion

**WATER LEVEL DATA**

Water Drilling: 25.50 ft  
 At Completion of Drilling: 13.00 ft  
 Time After Drilling: NA  
 Depth to Water: NA

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**BORING LOG 1RW12-B-7** Page 1 of 1

WEI Job No.: 201-40-01  
 Client: McDonough Associates Inc.  
 Project: US 45, Segment 1  
 Location: Ret. Wall 12, Cook Co., T36N, R12E

Date: 09/20/2011  
 Elevation: 700.80 ft  
 North: 1792524.16 ft  
 East: 1115660.81 ft  
 Station: 12+37+10.49  
 Offset: 65.35 ft

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Value (blows/ft)	Moisture Content (%)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Value (blows/ft)	Moisture Content (%)
700.80	Loose, brown SILTY LOAM, 80% gravel	-FLL-	1	4	NP		-FLL-	1	4	NP
699.05		1.48	2	46		Stiff, dark brown SILTY CLAY -BURIED TOPSOIL-	1.48	2	46	
697.30		0.25	3	41		Very soft, brown and gray SILTY CLAY, organic traces	0.25	3	41	
695.55		0.25	4	23			0.25	4	23	
693.80	Soft to very stiff, SILTY CLAY, trace gravel	1.89	5	25			1.89	5	25	
692.05		2.62	6	21			2.62	6	21	
690.30		2.02	7	19			2.02	7	19	
688.55	Wet SAND	3.46	8	20		Very stiff to hard, gray SILTY CLAY LOAM, trace gravel	3.46	8	20	
686.80		2.02	9	17			2.02	9	17	
685.05		4.51	10	16			4.51	10	16	

**GENERAL NOTES**

Began Drilling: 09-20-2011 Complete Drilling: 09-20-2011  
 Drilling Contractor: WTS Drill Rig: D-50 TMR  
 Driller: K&K Logger: B. Wilson Checked by: C. Marin  
 Drilling Method: 3.25" DAHSA; Boring backfilled upon completion

**WATER LEVEL DATA**

Water Drilling: 15.60 ft  
 At Completion of Drilling: DRY  
 Time After Drilling: NA  
 Depth to Water: NA

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**BORING LOG 1RW14-B-1** Page 1 of 1

WEI Job No.: 201-40-01  
 Client: McDonough Associates Inc.  
 Project: US 45, Segment 1  
 Location: Ret. Wall 14, Cook Co., T36N, R12E

Date: 09/20/2011  
 Elevation: 742.10 ft  
 North: 1784440.55 ft  
 East: 1115604.81 ft  
 Station: 907+06.43  
 Offset: 27.49 ft

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Value (blows/ft)	Moisture Content (%)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Value (blows/ft)	Moisture Content (%)
742.10	10-inch thick brown SILTY CLAY LOAM									
740.35	Hard, brown SILTY CLAY LOAM, trace gravel	4.50	1	12			4.50	1	12	
738.60		5.99	2	NR			5.99	2	NR	
736.85	Hard, brown and gray CLAY -L(%)=51, P(%)=23- -%Gravel=0.3- -%Sand=1.3- -%Silt=41.3- -%Clay=57.1- -A-7-5 (31)-	7.54	3	22			7.54	3	22	
735.10		6.82	4	24			6.82	4	24	
733.35		6.56	5	10			6.56	5	10	
731.60		0.41	6	24			0.41	6	24	
729.85		7.71	7	23			7.71	7	23	
728.10		6.62	8	20			6.62	8	20	

**GENERAL NOTES**

Began Drilling: 09-07-2011 Complete Drilling: 09-07-2011  
 Drilling Contractor: WTS Drill Rig: B-57 TMR  
 Driller: R&P Logger: B. Wilson Checked by: C. Marin  
 Drilling Method: 3.25" DAHSA; Boring backfilled upon completion

**WATER LEVEL DATA**

Water Drilling: DRY  
 At Completion of Drilling: DRY  
 Time After Drilling: NA  
 Depth to Water: NA

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FILE NAME: D:\60F05-SHT-1-Boring04.dgn	USER NAME: Patrick.Hannemann	DESIGNED: WEI	REVISED: 04/12/2013 P.M.H.	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RETAINING WALL SOIL BORING LOGS</b>	F.A.P. RTE.: 330	SECTION: 103R-3	COUNTY: COOK	TOTAL SHEETS: 932	SHEET NO.: 581
PLOT SCALE: 0.200 1" = 40'	DRAWN: JDK	REVISOR: JCE	CONTRACT NO.: 60F05							
PLOT DATE: 4/15/2013	CHECKED: JCE	REVISOR: JCE	ILLINOIS FED. AID PROJECT							

Note:  
 For retaining wall key plan see sheet 1.  
 For typical wall details see sheet 2.  
 See individual wall sheets for boring locations.





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**BORING LOG 1RW14-B-2** Page 1 of 1

WEI Job No.: 201-40-01  
 Client: McDonough Associates, Inc.  
 Project: US 45, Segment 1  
 Location: Ret. Wall 14, Cook Co., T36N, R12E

Date: NGVD  
 Elevation: 710.00 ft  
 North: 1764442.23 ft  
 East: 1118688.43 ft  
 Station: 107+01.37  
 Offset: 26.79 ft

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Q <sub>u</sub> (ksf)	Moisture Content (%)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Q <sub>u</sub> (ksf)	Moisture Content (%)
7.8	12-inch thick brown SILTY LOAM	7.8	1	7.8	4.50	14						
11.0	Stiff to hard, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	11.0	2	11.0	4.02	17						
13.0		13.0	3	13.0	4.50	17						
17.0		17.0	4	17.0	4.44	17						
19.0		19.0	5	19.0	5.90	13						
20.0		20.0	6	20.0	1.97	19						
21.0		21.0	7	21.0	1.64	10						
23.0		23.0	8	23.0	2.36	15						
Boring terminated at 20.00 ft												

<b>GENERAL NOTES</b>		<b>WATER LEVEL DATA</b>	
Begin Drilling: 09-07-2011	Complete Drilling: 09-07-2011	While Drilling: <input checked="" type="checkbox"/> WET	At Completion of Drilling: <input checked="" type="checkbox"/> DRY
Drilling Contractor: WTS	Drill Rig: B-57 TMR	Time After Drilling: <input checked="" type="checkbox"/> NA	Depth to Water: <input checked="" type="checkbox"/> NA
Driller: R&P	Logger: B. Wilson	Checked by: C. Marin	
Drilling Method: 3.25" DAHSA; Boring backfilled upon completion			

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**BORING LOG 1RW14-B-3** Page 1 of 1

WEI Job No.: 201-40-01  
 Client: McDonough Associates, Inc.  
 Project: US 45, Segment 1  
 Location: Ret. Wall 14, Cook Co., T36N, R12E

Date: NGVD  
 Elevation: 731.00 ft  
 North: 1764445.25 ft  
 East: 1118772.00 ft  
 Station: 906+74.94  
 Offset: 27.16 ft

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Q <sub>u</sub> (ksf)	Moisture Content (%)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Q <sub>u</sub> (ksf)	Moisture Content (%)
7.8	15-inch thick SILTY LOAM	7.8	1	7.8	4.50	14						
11.0	Stiff to hard, brown and gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	11.0	2	11.0	4.50	17						
13.0		13.0	3	13.0	4.50	17						
17.0		17.0	4	17.0	6.20	17						
19.0		19.0	5	19.0	6.40	16						
21.0		21.0	6	21.0	2.79	14						
23.0		23.0	7	23.0	2.79	12						
24.0	Very stiff, gray CLAY	24.0	8	24.0	1.80	14						
25.0		25.0	9	25.0	3.09	23						
Boring terminated at 20.00 ft												

<b>GENERAL NOTES</b>		<b>WATER LEVEL DATA</b>	
Begin Drilling: 09-07-2011	Complete Drilling: 09-07-2011	While Drilling: <input checked="" type="checkbox"/> WET	At Completion of Drilling: <input checked="" type="checkbox"/> DRY
Drilling Contractor: WTS	Drill Rig: B-57 TMR	Time After Drilling: <input checked="" type="checkbox"/> NA	Depth to Water: <input checked="" type="checkbox"/> NA
Driller: R&P	Logger: B. Wilson	Checked by: C. Marin	
Drilling Method: 3.25" DAHSA; Boring backfilled upon completion			

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**BORING LOG 1RW1-B-1** Page 1 of 1

WEI Job No.: 201-40-01  
 Client: McDonough Associates, Inc.  
 Project: US 45, Segment 1  
 Location: Ret. Wall 1, Cook Co., T36N, R12E

Date: NGVD  
 Elevation: 750.00 ft  
 North: 1734810.97 ft  
 East: 1116142.58 ft  
 Station: 38+00.13  
 Offset: 60.21 ft

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Q <sub>u</sub> (ksf)	Moisture Content (%)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Q <sub>u</sub> (ksf)	Moisture Content (%)
7.8	12-inch thick brown SILTY CLAY - TOPSOIL	7.8	1	7.8	3.50	15						
11.0	Very soft, brown and gray CLAY LOAM, trace gravel	11.0	2	11.0	4.50	17						
13.0	Hard, brown and gray SILTY CLAY, trace gravel	13.0	3	13.0	4.50	17						
17.0		17.0	4	17.0	8.14	23						
19.0		19.0	5	19.0	7.87	21						
21.0		21.0	6	21.0	6.31	25						
23.0	Very soft, brown and gray SILTY CLAY LOAM	23.0	7	23.0	2.46	23						
Boring terminated at 15.00 ft												

<b>GENERAL NOTES</b>		<b>WATER LEVEL DATA</b>	
Begin Drilling: 09-08-2011	Complete Drilling: 09-08-2011	While Drilling: <input checked="" type="checkbox"/> WET	At Completion of Drilling: <input checked="" type="checkbox"/> DRY
Drilling Contractor: WTS	Drill Rig: B-57 TMR	Time After Drilling: <input checked="" type="checkbox"/> NA	Depth to Water: <input checked="" type="checkbox"/> NA
Driller: R&P	Logger: B. Wilson	Checked by: C. Marin	
Drilling Method: 3.25" DAHSA; Boring backfilled upon completion			

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Note:  
 For retaining wall key plan see sheet 1.  
 For typical wall details see sheet 2.  
 See individual wall sheets for boring locations.

FILE NAME: 0160F05-SHT-Boring05.dgn	USER NAME: Patrick_Mannamann	DESIGNED: WEI	REVISED: 04/12/2013 P.M.H.	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>RETAINING WALL SOIL BORING LOGS</b>	F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 582	
PLOT SCALE: 0.25" = 1' - 0"						SHEET NO. 27 OF 41 SHEETS		CONTRACT NO. 60F05		ILLINOIS FED. AID PROJECT	
PLOT DATE: 4/15/2013											
CHECKED: JCE											



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**BORING LOG 1RW1-B-2**  
 WEI Job No.: 201-40-01  
 Client: McDonough Associates Inc.  
 Project: US 45, Segment 1  
 Location: Ret. Wall 1, Cook Co., T36N, R12E

Date: NAD83  
 Elevation: 789.90 ft  
 North: 1764921.15 ft  
 East: 1195143.44 ft  
 Station: 30+49.73  
 Offset: 04.97 FT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Moisture Content (%)
789.90	~4-inch thick dark brown SILTY CLAY	0				789.90		0			
789.90	-TOPSOIL-	0				789.90		0			
789.90	Hard, brown and gray CLAY LOAM, trace gravel	1	1	1	NR	789.90		1	1	NR	
789.90	-FILL-	1				789.90		1			
789.90	Hard, brown and gray SILTY CLAY	2	2	3	5.08	789.90		2	3	5.08	
789.90		5	5	4	6.72	789.90		5	4	6.72	
789.90	Hard, brown and gray CLAY	10	10	10	6.96	789.90		10	10	6.96	
789.90		15	15	12	5.49	789.90		15	12	5.49	
789.90	Hard, brown and gray CLAY	15	15	9		789.90		15	9		
789.90		20	20	10		789.90		20	10		
789.90		25	25	9		789.90		25	9		

**GENERAL NOTES**  
 Begin Drilling: 09-08-2011  
 Complete Drilling: 09-08-2011  
 Drilling Contractor: WTS  
 Drill Rig: B-57 TMR  
 Driller: R&P  
 Logger: B. Wilson  
 Checked by: C. Marin  
 Drilling Method: 3.25" DAHSA; Boring backfilled upon completion

**WATER LEVEL DATA**  
 Water Drilling:  DRY  
 At Completion of Drilling:  DRY  
 Time After Drilling: NA  
 Depth to Water: NA  
 This graphic representation represents the approximate boundary between soil types. The actual transition may be gradual.

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**BORING LOG 1RW1-B-3**  
 WEI Job No.: 201-40-01  
 Client: McDonough Associates Inc.  
 Project: US 45, Segment 1  
 Location: Ret. Wall 1, Cook Co., T36N, R12E

Date: NAD83  
 Elevation: 790.50 ft  
 North: 1764921.15 ft  
 East: 1195143.44 ft  
 Station: 30+69.41  
 Offset: 11.07 FT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Moisture Content (%)
790.50	~4-inch thick dark brown SILTY CLAY	0				790.50		0			
790.50	-TOPSOIL-	0				790.50		0			
790.50	Brown CLAY LOAM, trace gravel	1	1	2	NR	790.50		1	2	NR	
790.50	-FILL-	1				790.50		1			
790.50	Hard, brown and gray SILTY CLAY, trace gravel	2	2	3	5.08	790.50		2	3	5.08	
790.50		5	5	4	6.72	790.50		5	4	6.72	
790.50	Soft, brown and gray SANDY CLAY LOAM, trace gravel	10	10	10	6.96	790.50		10	10	6.96	
790.50		15	15	12	5.49	790.50		15	12	5.49	
790.50	Hard, brown and gray SILTY CLAY, trace gravel	15	15	9		790.50		15	9		
790.50		20	20	10		790.50		20	10		
790.50		25	25	9		790.50		25	9		

**GENERAL NOTES**  
 Begin Drilling: 09-08-2011  
 Complete Drilling: 09-08-2011  
 Drilling Contractor: WTS  
 Drill Rig: B-57 TMR  
 Driller: R&P  
 Logger: B. Wilson  
 Checked by: C. Marin  
 Drilling Method: 3.25" DAHSA; Boring backfilled upon completion

**WATER LEVEL DATA**  
 Water Drilling:  DRY  
 At Completion of Drilling:  DRY  
 Time After Drilling: NA  
 Depth to Water: NA  
 This graphic representation represents the approximate boundary between soil types. The actual transition may be gradual.

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**BORING LOG 1RW2-B-1**  
 WEI Job No.: 201-40-01  
 Client: McDonough Associates Inc.  
 Project: US 45, Segment 1  
 Location: Ret. Wall 2, Cook Co., T36N, R12E

Date: NAD83  
 Elevation: 736.60 ft  
 North: 1789237.54 ft  
 East: 1196327.86 ft  
 Station: 84+21.22  
 Offset: 64.10 FT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/ft)	Moisture Content (%)
736.60	~2-inch thick dark brown SILTY CLAY	0				736.60		0			
736.60	-TOPSOIL-	0				736.60		0			
736.60	Very stiff, brown CLAY LOAM, trace gravel	1	1	6	3.90	736.60		1	6	3.90	
736.60	-FILL-	1				736.60		1			
736.60	Very stiff, brown and gray CLAY, trace gravel	2	2	5	2.25	736.60		2	5	2.25	
736.60		5	5	3	2.36	736.60		5	3	2.36	
736.60		10	10	7	1.9	736.60		10	7	1.9	
736.60	Hard, brown and gray SILTY CLAY, trace gravel	15	15	7	5.64	736.60		15	7	5.64	
736.60		20	20	12	6.64	736.60		20	12	6.64	
736.60		25	25	10	8.80	736.60		25	10	8.80	
736.60		30	30	12	5.66	736.60		30	12	5.66	
736.60		35	35	12	4.25	736.60		35	12	4.25	
736.60		40	40	8		736.60		40	8		

**GENERAL NOTES**  
 Begin Drilling: 09-08-2011  
 Complete Drilling: 09-08-2011  
 Drilling Contractor: WTS  
 Drill Rig: B-57 TMR  
 Driller: R&P  
 Logger: B. Wilson  
 Checked by: C. Marin  
 Drilling Method: 3.25" DAHSA; Boring backfilled upon completion

**WATER LEVEL DATA**  
 Water Drilling:  DRY  
 At Completion of Drilling:  DRY  
 Time After Drilling: NA  
 Depth to Water: NA  
 This graphic representation represents the approximate boundary between soil types. The actual transition may be gradual.

Note:  
 For retaining wall key plan see sheet 1.  
 For typical wall details see sheet 2.  
 See individual wall sheets for boring locations.

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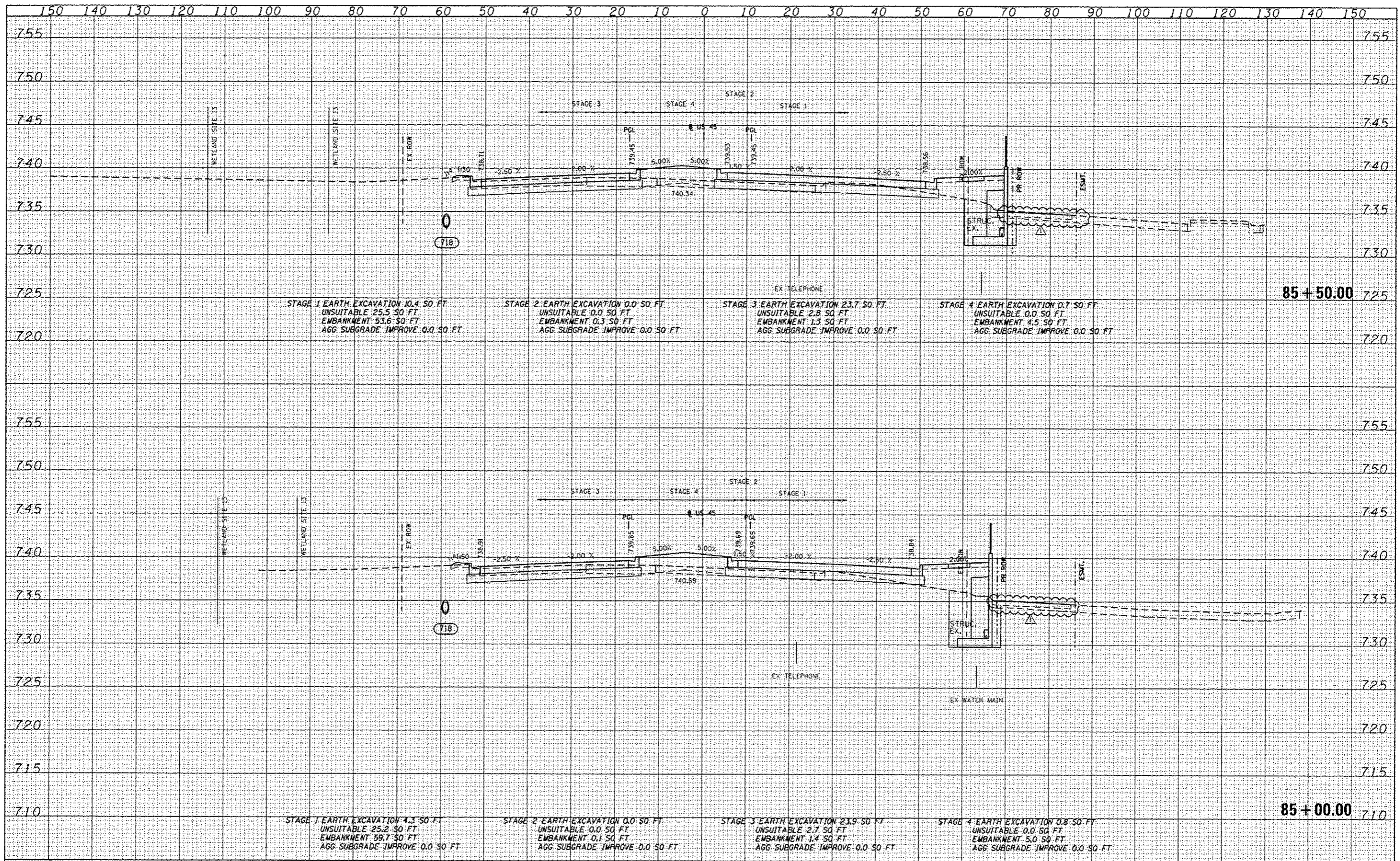
**URS**

FILE NAME: D:\B\F\85-SHT-Boring\86.dgn	USER NAME: Patrick.Hannemann	DESIGNED: WEI	REVISED: 04/12/2013 P.M.H.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				RETAINING WALL SOIL BORING LOGS				F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 583
PLOT SCALE: 1/8" = 1' - 0"		DRAWN: JDK	REVISED:					SHEET NO. 28 OF 41 SHEETS				CONTRACT NO. 60F05				ILLINOIS FED. AID PROJECT

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
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BY	
REVISIONS	
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DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	

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FILE NAME : 0160F05-SHT-X5SH101.dgn  
USER NAME : james.push  
DESIGNED - BFH  
DRAWN - BFH  
CHECKED - EJJ  
DATE - 03/13/13  
PLOT SCALE : 20.0000 / 1" = 40.0000'  
PLOT DATE : 4/10/2013

DESIGNED - BFH	REVISED - 04/12/2013
DRAWN - BFH	REVISED -
CHECKED - EJJ	REVISED -
DATE - 03/13/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

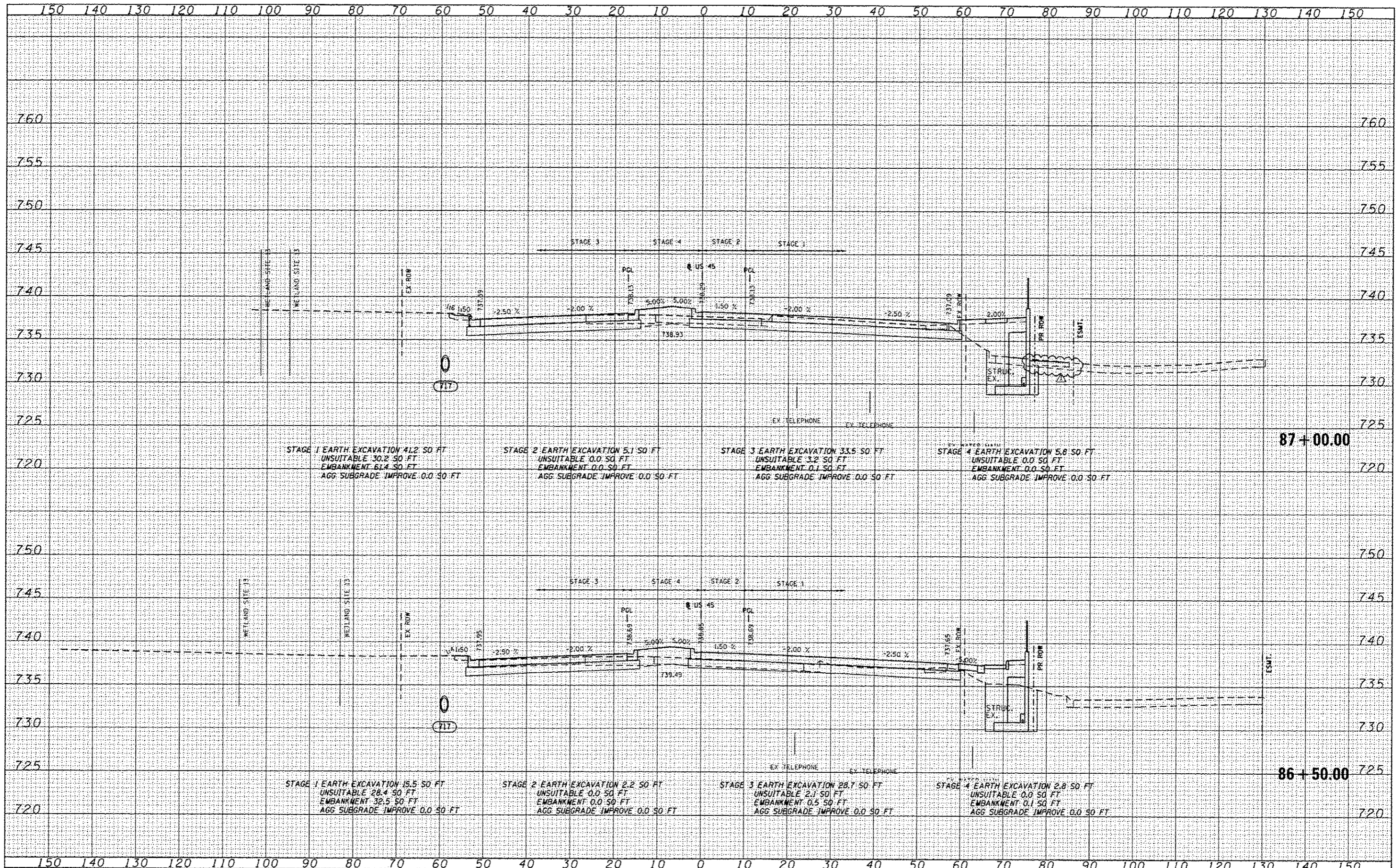
US 45 CROSS SECTIONS  
SCALE: 1"=10'H(1"=5'M) SHEET NO. 66 OF 147 SHEETS STA. 85+00.00 TO STA. 85+50.00

F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 803
XS-US45-66		CONTRACT NO. 60F05		
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINI	
SURVEY	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL	
SURVEY	
NOTE BOOK	
AREAS CHECKED	

100 S. WALKER DR.  
SUITE 500  
CHICAGO, IL 60606  
TEL (312) 999-1000  
FAX (312) 999-4098



FILE NAME: 0160F05-SHT-X55HT01.dgn  
USER NAME: james.pugh

DESIGNED - BFH	REVISED - 04/12/2013
DRAWN - BFH	REVISED -
CHECKED - EJC	REVISED -
DATE - 03/13/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

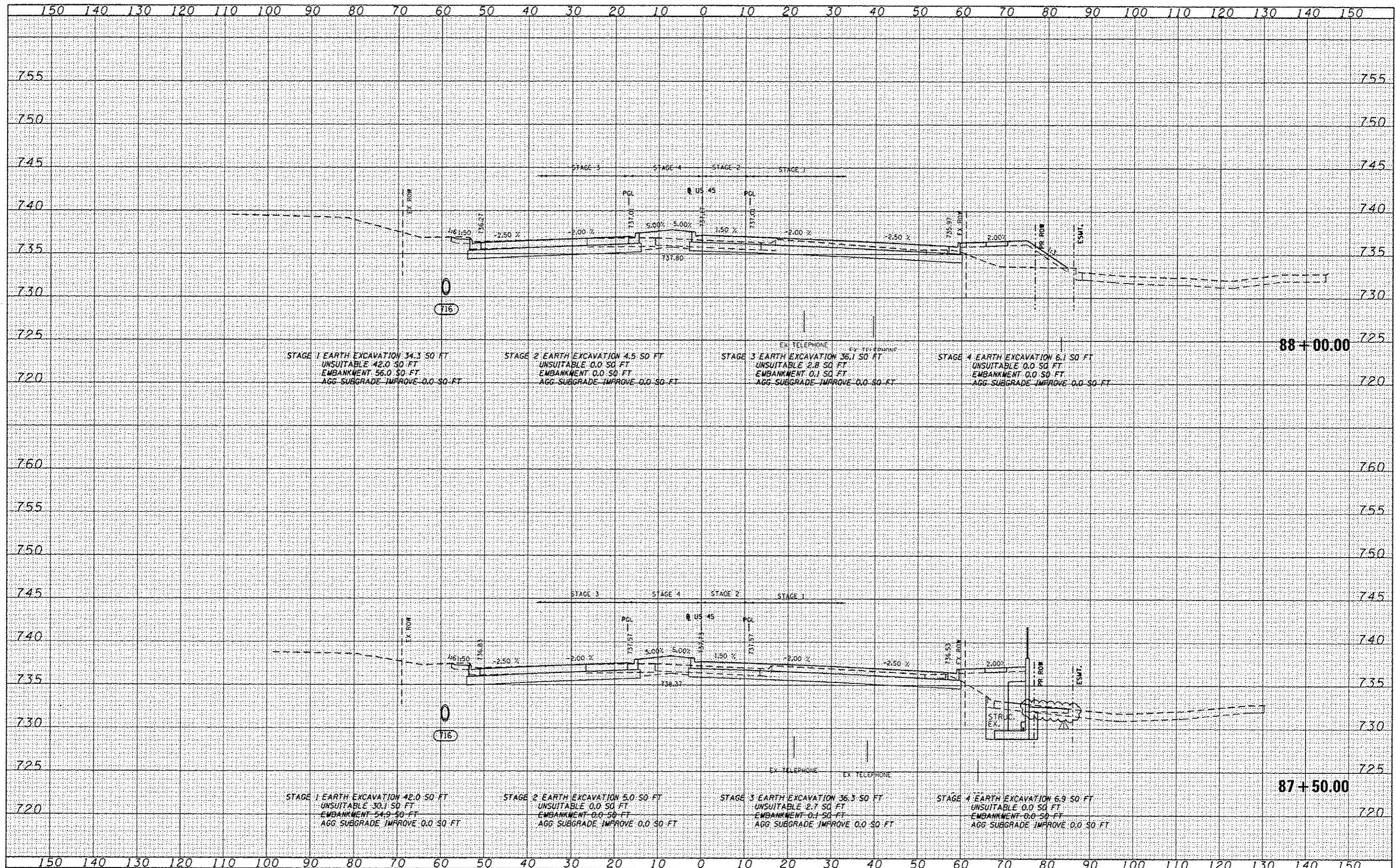
US 45 CROSS SECTIONS  
SCALE: 1"=10'H=1"=5' SHEET NO. 68 OF 147 SHEETS STA. 86+50.00 TO STA. 87+00.00

F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 805
XS-US45-68			CONTRACT NO. 60F05	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
REVISION	
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BY	
REVISION	
NO.	
DESCRIPTION	

100 S. WACKER DR.  
SUITE 500  
CHICAGO, IL 60606  
TEL: (312) 850-4500  
FAX: (312) 850-4599



FILE NAME: D:\G05-5HT-XSSHT01.dgn  
USER NAME: jones.push  
PLOT SCALE: 20.0000 / in.  
PLOT DATE: 4/10/2013

DESIGNED - BFH	REVISED - 04/12/2013
DRAWN - BFH	REVISED -
CHECKED - EJC	REVISED -
DATE - 03/13/13	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US 45 CROSS SECTIONS  
SCALE: 1"=10'H; 1"=5'V SHEET NO. 69 OF 147 SHEETS STA. 87+50.00 TO STA. 88+00.00

F.A.P. RTE. 330	SECTION 103R-3	COUNTY COOK	TOTAL SHEETS 932	SHEET NO. 806
XS-US45-69		CONTRACT NO. 60F05		
[ILLINOIS] FED. AID PROJECT				