

04-25-14 LETTING ITEM 168

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
FEDERAL AID PROJECT
CAL-SAG TRAIL
ALSIP PARK DISTRICT**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	13-P4000-00-BT	COOK	109	1
FED. ROAD DIST. NO. -	ILLINOIS	CONTRACT NO. 63834		

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN
VILLAGE OF PALOS PARK
VILLAGE OF ALSIP

DESIGN SPEED
20 MPH

CLASSIFICATION
BIKE TRAIL

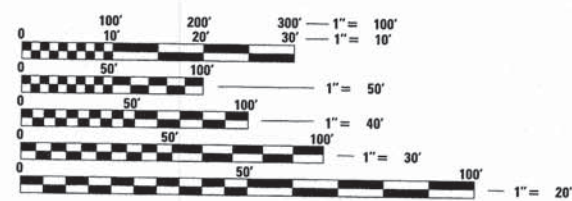
86TH AVENUE TO SOUTHWEST HIGHWAY &
RIDGELAND AVENUE TO CICERO AVENUE

SECTION NO. 13-P4000-00-BT
PROJECT NO. CMM-TE-00D1(911)
ALSIP PARK DISTRICT

COOK COUNTY
JOB NO: C-91-239-13



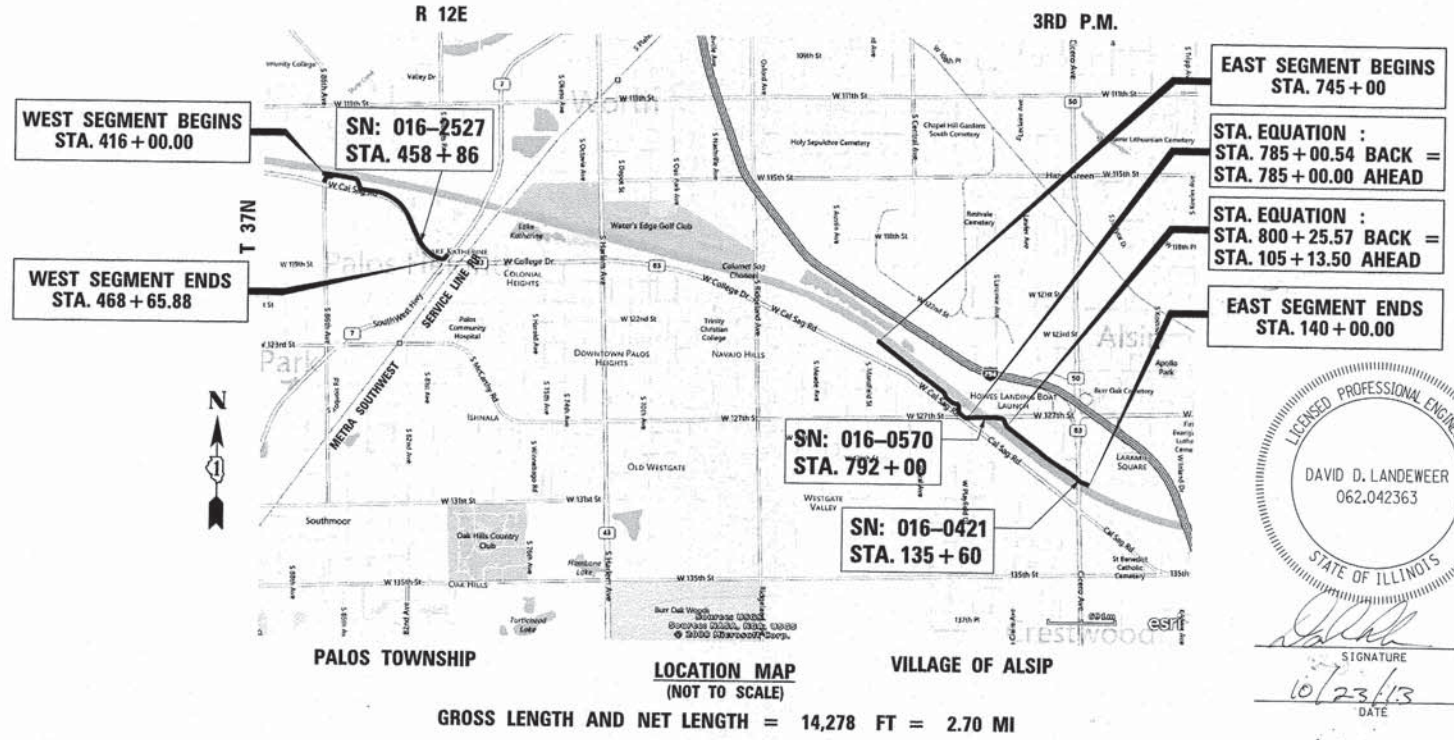
PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. 847-705-4406, SCHAUMBURG, IL



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

CONTRACT NO. 63834



EAST SEGMENT BEGINS
STA. 745 + 00

STA. EQUATION :
STA. 785 + 00.54 BACK =
STA. 785 + 00.00 AHEAD

STA. EQUATION :
STA. 800 + 25.57 BACK =
STA. 105 + 13.50 AHEAD

EAST SEGMENT ENDS
STA. 140 + 00.00



DAVID D. LANDEWEER
062.042363

10/23/13
DATE

LICENSE EXPIRES 11/30/2013

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Approved October 24 2013
Jarrett Wilson
ALSIP PARK DISTRICT

Passed NOVEMBER 18, 2013
C. Holt *C. J. Holt*
DISTRICT #1 ENGINEER OF LOCAL ROADS AND STREETS

Releasing for Bid
Based on Limited
Review November 18, 2013
John Patterson
DEPUTY DIRECTOR OF HIGHWAYS, REGION #1 ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

PLANS PREPARED BY:
URS 100 South Wacker Drive,
Suite 500
CHICAGO, IL. 60606
TEL. (312)-939-1000

GENERAL CONSTRUCTION NOTES

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BENCHMARKS /CONTROL POINTS

SEE ALIGNMENT AND TIES

CONSTRUCTION ACCESS LOCATIONS

THE CONSTRUCTION ACCESS LOCATIONS SHALL AVOID WETLAND, WETLAND BUFFER AND RIPARIAN AREAS.

COMMITMENTS

NONE

GENERAL NOTES BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED UTILITY FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).

ALL STATION-OFFSET CALL OUTS AND CURVE DATA ON THE PLANS REFER TO THE PROPOSED CENTERLINE UNLESS OTHERWISE SHOWN.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS.

SPECIFICATIONS ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2012, THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", JULY 2009 6TH EDITION, THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", LATEST EDITION, THE DETAILS INCLUDED IN THE PLANS, AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

STANDARDS ANY REFERENCE TO "STANDARDS" THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARD OF IDOT AS LISTED ON THIS SHEET.

COORDINATION THE CONTRACTOR SHALL NOTIFY JEANNETTE HUBER OF THE ALSIP PARK DISTRICT AT (708) 389-1003 AND RICK BOEHM OF THE VILLAGE OF PALOS PARK AT (708) 671-3702, AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK, AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER. THE CONTRACTOR SHALL ALSO OBTAIN ANY AND ALL NECESSARY PERMITS REQUIRED BEFORE THE START OF ANY CONSTRUCTION.

PUBLIC OR PRIVATE UTILITIES THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE, AND THE DISTRICT DOES NOT GUARANTEE THEIR ACCURACY. THE CONTRACTOR SHALL BE REQUIRED TO ASCERTAIN THE EXACT LOCATIONS OF SUCH UTILITIES AND EXERCISE CARE DURING CONSTRUCTION OPERATIONS SO AS NOT TO DAMAGE THEM. IN ACCORDANCE WITH THE SPECIAL PROVISIONS AND ARTICLE 107.20 OF THE "STANDARD SPECIFICATIONS", THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITY OWNERS SO THAT THEIR FACILITIES MAY BE ADJUSTED OR RELOCATED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS UNLESS OTHERWISE NOTED IN THE PLANS. ALL RELOCATION WORK ON EXISTING PRIVATE UTILITIES WILL BE DONE BY THE OWNER OF THAT UTILITY.

SURVEY AND MONUMENTS ALL ELEVATIONS IN THE PLANS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

EXISTING DRAINAGE STRUCTURES DURING CONSTRUCTION OPERATIONS, WHENEVER ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED BY THE CONTRACTOR AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS OR CATCH BASINS. HE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS, AND DISCHARGE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET, AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THIS WORK WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT. BEFORE ORDERING PIPE CULVERTS, THE CONTRACTOR SHALL CONTACT THE ENGINEER AS TO THE EXACT LENGTH AND QUANTITY REQUIRED.

UNSUITABLE MATERIAL BEFORE REMOVAL OF ANY UNSUITABLE MATERIAL, THE CONTRACTOR SHALL TREAT THE SUBGRADE AS PER ARTICLE 301.03 OF THE "STANDARD SPECIFICATIONS" TO THE SATISFACTION OF THE ENGINEER. UNSUITABLE MATERIAL SHALL NOT BE USED AS EMBANKMENT OR FILL UNDER THE PROPOSED TRAIL AS SHOWN ON THE TYPICAL CROSS SECTIONS.

STOCKPILES STOCKPILES OF TOPSOIL AND OTHER MATERIALS SHALL NOT BE LOCATED WITHIN A SPECIAL MANAGEMENT AREA. APPROVAL OF THE LOCATION MUST BE OBTAINED FROM THE ENGINEER PRIOR TO PLACEMENT. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, EROSION CONTROL MEASURES SHALL BE PROVIDED. STOCKPILES TO REMAIN IN PLACE FOR 30 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

TREE TRIMMING ALL BRANCHES THAT ARE LESS THAN 12 FEET ABOVE THE SURFACE OF THE TRAIL SHALL BE REMOVED BY THE CONTRACTOR. THIS WORK SHALL BE PAID FOR AS LUMP SUM FOR PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE. THE NATIONAL ARBORIST ASSOCIATION'S PRUNING STANDARDS FOR SHADE TREES CLASS II-STANDARD PRUNING SPECIFICATIONS SHALL BE FOLLOWED.

SAW CUTTING THE LIMITS OF REMOVAL OF ALL CONCRETE OR BITUMINOUS PAVEMENTS, CURBING OR SIDEWALK ADJACENT TO EXISTING LIKE PAVEMENTS, CURBING OR SIDEWALKS SHALL BE SAWCUT IN ACCORDANCE WITH SECTION 440 OF THE "STANDARD SPECIFICATIONS" AND AT THE DIRECTION OF THE ENGINEER. THE SAW CUTTING OF BITUMINOUS PAVEMENT, DRIVEWAYS, CURBING OR SIDEWALK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT AND WILL NOT BE PAID FOR AS SEPARATE ITEMS.

RESTORATION GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH SIX INCHES OF TOPSOIL AND SEED OR SOD AS SPECIFIED.

ACCESS THE CONTRACTOR SHALL BE AWARE OF POTENTIAL LIMITED ACCESS TO PORTIONS OF THE PROJECT. TEMPORARY DRAINAGE CROSSINGS APPROVED BY THE ENGINEER MAY BE INSTALLED BY THE CONTRACTOR AT HIS/HER EXPENSE TO GAIN ACCESS FOR CONSTRUCTION. THE CONTRACTOR MAY ALSO APPROACH ADJACENT OWNERS FOR THE PURPOSE OF OBTAINING ADDITIONAL ACCESS. SUCH NEGOTIATIONS, HOWEVER, ARE STRICTLY BETWEEN PROPERTY OWNERS AND THE CONTRACTOR. ANY ADDITIONAL COSTS INCURRED BY THE CONTRACTOR AS A RESULT SHALL BE AT HIS/HER EXPENSE.

NON-SPECIAL WASTE THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANKS (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

SEDIMENTATION AND EROSION CONTROL NOTES

- A. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- B. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE.
- C. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN 14 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE. PERMANENT STABILIZATION SHALL BE DONE WITHIN 14 DAYS AFTER COMPLETION OF FINAL GRADING OF THE SOIL.
- D. ALL STORM SEWER FACILITIES THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, FILTERED, OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- E. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.
- F. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION AND REPAIR DURING CONSTRUCTION.
- G. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.
- H. THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL PRIOR TO THE START OF ANY EARTHWORK.
- I. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, EROSION CONTROL MEASURES SHALL BE PROVIDED BY THE CONTRACTOR.
- J. EROSION CONTROL MEASURES SHALL COMPLY WITH THE MINIMUM REQUIREMENTS OF THE COOK COUNTY STORMWATER AND FLOODPLAIN ORDINANCE SPECIFICATIONS AT ALL TIMES.

FILE NAME: G:\P\Public\highways\25368779_Cal_Sag\Trail\West\PH2\Books\N01\up\General\General.dgn



USER NAME: David.Landwehr	DESIGNED: MIA & AB	REVISED:
PLOT SCALE: 10.0000 "/>		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
INDEX OF SHEETS, GENERAL CONSTRUCTION NOTES
AND HIGHWAY STANDARDS

F.A.P. RTE.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
XX	13-P4000-00-BT	COOK	109	2
CONTRACT NO. 63834				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

FILE NAME = D:\Palos Heights\25363779_Cal-Sag Trail\EastPH\25363779_Cal-Sag Trail\Summary\Summary.qxd

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	PALOS PARK	ALSIP PARK DISTRICT
				ROADWAY 0028 URBAN	ROADWAY 0028 URBAN
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	1,566	201	1,365
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	491	297	194
20100500	TREE REMOVAL, ACRES	ACRE	1.2	1.2	
20101100	TREE TRUNK PROTECTION	EACH	18	18	
20101200	TREE ROOT PRUNING	EACH	18	18	
20200100	EARTH EXCAVATION	CU YD	9737	8,101	1,636
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	11688	6,306	5,382
20400800	FURNISHED EXCAVATION	CU YD	3102		3,102
20800150	TRENCH BACKFILL	CU YD	445	445	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	30	30	
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	18508	7,690	10,818
* 21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	24846	11712	13134
* 25000115	SEEDING, CLASS 1B	ACRE	1.3	0.5	0.8
* 25000312	SEEDING, CLASS 4A	ACRE	3.7	1.7	2.0
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	724	461	263
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	724	461	263
* 25100115	MULCH, METHOD 2	ACRE	5.0	2.2	2.8
* 25200110	SODDING, SALT TOLERANT	SQ YD	1449	1,449	
28000400	PERIMETER EROSION BARRIER	FOOT	11722	3,530	8,192
28000500	INLET AND PIPE PROTECTION	EACH	28	20	8
28100107	STONE RIPRAP, CLASS A4	SQ YD	29	29	
28200200	FILTER FABRIC	SQ YD	29	29	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	250	110	140
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	2578	1,318	1,260
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	15781	6,735	9,026

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	PALOS PARK	ALSIP PARK DISTRICT
				ROADWAY 0028 URBAN	ROADWAY 0028 URBAN
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	6420	2922	3498
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	91	91	
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1713	702	1,011
42001300	PROTECTIVE COAT	SQ YD	828	428	400
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	828	428	400
42400800	DETECTABLE WARNINGS	SQ FT	193	107	86
44000100	PAVEMENT REMOVAL	SQ YD	442	442	0
44000500	COMBINATION CONCRETE CURB AND GUTTER REMOVAL	FOOT	148	148	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	1205	1205	
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	120	100	20
50102400	CONCRETE REMOVAL	CU YD	8.2	6.7	1.5
50200100	STRUCTURE EXCAVATION	CU YD	614	170	444
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	30	30	
50300225	CONCRETE STRUCTURES	CU YD	12.0	0.8	11.2
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	9370	7,440	1,930
* 50901720	BICYCLE RAILING	FOOT	215		215
54002020	EXPANSION BOLTS 3/4 INCH	EACH	106	72	34
54003000	CONCRETE BOX CULVERTS	CU YD	54.4	54.4	
542A0220	PIPE CULVERTS, CLASS A, TYPE I 15"	FOOT	184	20	164
542a0229	PIPE CULVERTS, CLASS A, TYPE I 24"	FOOT	100	100	
542A0235	PIPE CULVERTS, CLASS A, TYPE I 30"	FOOT	61	61	
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	10	2	8
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1	
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	4	4	
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2	2	



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CHECKED - DDL	REVISED -
DATE - 08/19/2013	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
 SUMMARY OF QUANTITIES

SCALE: SHEET NO. OF 11 SHEETS STA. TO STA. —

F.A.P. RTE. XX	SECTION 13-P4000-00-BT	CITY COOK	TOTAL SHEETS 109	SHEET NO. 3
CONTRACT NO. 63834				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	PALOS PARK		ALSIP PARK DISTRICT	
				ROADWAY 0028 URBAN	ROADWAY 0028 URBAN	ROADWAY 0028 URBAN	ROADWAY 0028 URBAN
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	410	410			
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	355	355			
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	55	55			
* 56400300	FIRE HYDRANTS TO BE ADJUSTED	EACH	1			1	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	84	10		74	
60108800	PIPE UNDERDRAINS, PERFORATED CORRUGATED STEEL PIPE 8"	FOOT	420	420			
60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1			
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	8	8			
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	8	8			
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1			
60255500	MANHOLES TO BE ADJUSTED	EACH	6	6			
60600605	CONCRETE CURB, TYPE B	FOOT	298	298			
60602800	CONCRETE GUTTER, TYPE B	FOOT	151			151	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1016	1016			
* 63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1			1	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	2		2	
63200310	GUARDRAIL REMOVAL	FOOT	178	75		103	
* 63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	400	325		75	
* 63302400	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 5	EACH	1			1	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	690			690	
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	0.5		0.5	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	1		1	
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	8	4		4	
67100100	MOBILIZATION	L SUM	1	0.5		0.5	
70102820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.5		0.5	

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	PALOS PARK		ALSIP PARK DISTRICT	
				ROADWAY 0028 URBAN	ROADWAY 0028 URBAN	ROADWAY 0028 URBAN	ROADWAY 0028 URBAN
70102825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	0.5		0.5	
70102835	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.5		0.5	
70102840	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	0.5		0.5	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	50			50	
* 72000100	SIGN PANEL - TYPE 1	SQ FT	91	28		63	
* 72900100	METAL POST - TYPE A	FOOT	142	92		50	
* 72900200	METAL POST - TYPE B	FOOT	35			35	
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	573	252		321	
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	793	460		333	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	152	55		97	
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	10	10			
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	13502	5,469		8,033	
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	225	225			
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	160	150		10	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	2		2	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	72			72	
* 81028210	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	88			88	
* 81400100	HANDHOLE	EACH	1			1	
* 81603051	UNIT DUCT, 600V, 3-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE) 1 1/4" DIA. POLYETHYLENE	FOOT	400			400	
* 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	16			16	
* 84200804	REMOVAL OF POLE FOUNDATION	EACH	2			2	
* 84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	2			2	
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2	1		1	
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1339	194		1145	
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1441	215		1226	

FILE NAME = D:\P\Auto\p\p\14-23566778_Col_Sag Trail\Drawings\Map\General\Summary_QTY_Quantities.dgn



USER NAME = David.Landwehr
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 DRAWN - MIA & AB
 CHECKED - DDL
 DATE - 08/19/2013

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
 SUMMARY OF QUANTITIES

SCALE: SHEET NO. OF 11 SHEETS STA. TO STA. —

F.A.P. RTE.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
XX	13-P4000-00-BT	COOK	109	4
FED. ROAD DIST. NO. 1			ILLINOIS FED. AID PROJECT	

CONTRACT NO. 63834

FILE NAME = D:\PalosHeights_25368779_Cal-Sag\Drawings\Roadway\Alsip\PalosPark\Summary\07Quantities.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	PALOS PARK	ALSIP PARK DISTRICT
				ROADWAY 0028 URBAN	ROADWAY 0028 URBAN
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	104		104
* 87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	1		1
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	1		1
* 87900200	DRILL EXISTING HANDHOLE	EACH	1		1
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4	2	2
* 88102747	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1		1
* 88600100	DETECTOR LOOP, TYPE 1	FOOT	128	128	
* 88800100	PEDESTRIAN PUSH-BUTTON	EACH	5	2	3
* 89502200	MODIFY EXISTING CONTROLLER	EACH	2	1	1
* 89502376	REBUILD EXISTING HANDHOLE	EACH	2	1	1
* A2002714	TREE, CARYA OVATA (SHAGBARK HICKORY), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	6	3	3
* A2006414	TREE, QUERCUS ALBA (WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	9	6	3
* A2007814	TREE, TILIA AMERICANA (AMERICAN LINDEN/BASSWOOD), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	9	6	3
* K1004595	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE	L SUM	1	0.5	0.5
X0321322	DROP GATE	EACH	2	1	1
X0326657	RELOCATE SIGN, SPECIAL	EACH	1	1	
X3510407	AGGREGATE BASE COURSE, TYPE CA-7	TON	205	205	
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	39	14	25
* X6330705	RUB RAIL	FOOT	780		780
X7240505	RELOCATE SIGN PANEL AND POST	EACH	20	19	1
XX003995	INTERLOCKING CONCRETE PAVERS	SQ FT	682	682	
XX005642	GATEWAY MONUMENT SIGN COMPLETE	EACH	2	1	1
XX006381	CRUSHED AGGREGATE CA-1	CU YD	341	341	
XX007399	MONUMENT TYPE A FOUNDATION	EACH	10	3	7
XX008268	DECORATIVE GATEWAY ELEMENT	EACH	2	1	1

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	PALOS PARK	ALSIP PARK DISTRICT
				ROADWAY 0028 URBAN	ROADWAY 0028 URBAN
XX008600	DECORATIVE SIGN AND POST (DIRECT POST)	EACH	10	3	7
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	114	59	55
* Z0007129	HANDRAIL MODIFICATION	L SUM	1		1
Z0013302	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	1656		1,656
Z0022800	FENCE REMOVAL	FOOT	50	50	
Z0026407	TEMPORARY SHEET PILING	SQ FT	2420	2420	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4	
Z0042300	PORTLAND CEMENT CONCRETE SIDEWALK CURB	FOOT	165	77	88
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	238		238
* Z0055800	RUSTIC RAIL FENCE	FOOT	365		365
Δ Z0076600	TRAINEES	HOURL	500	250	250
Δ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOURL	500	250	250

Δ 0042



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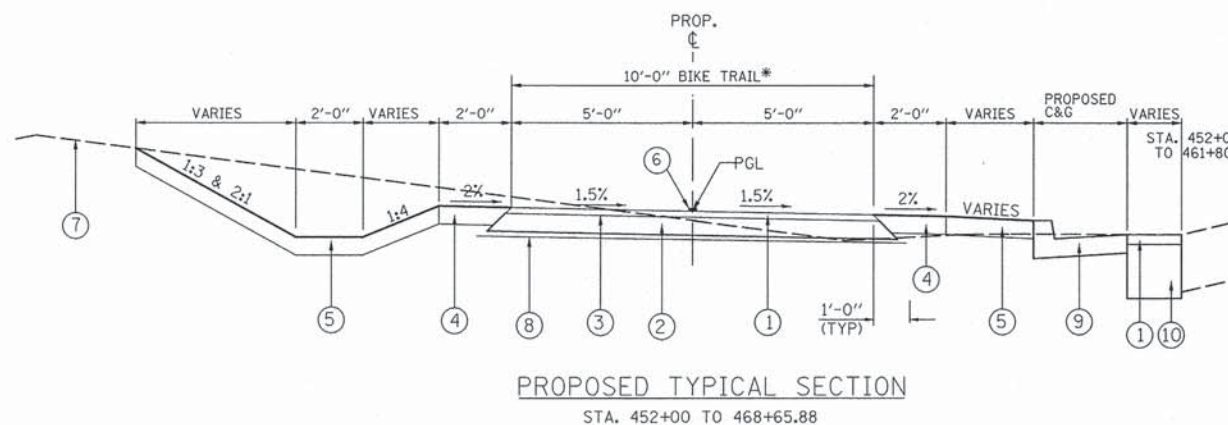
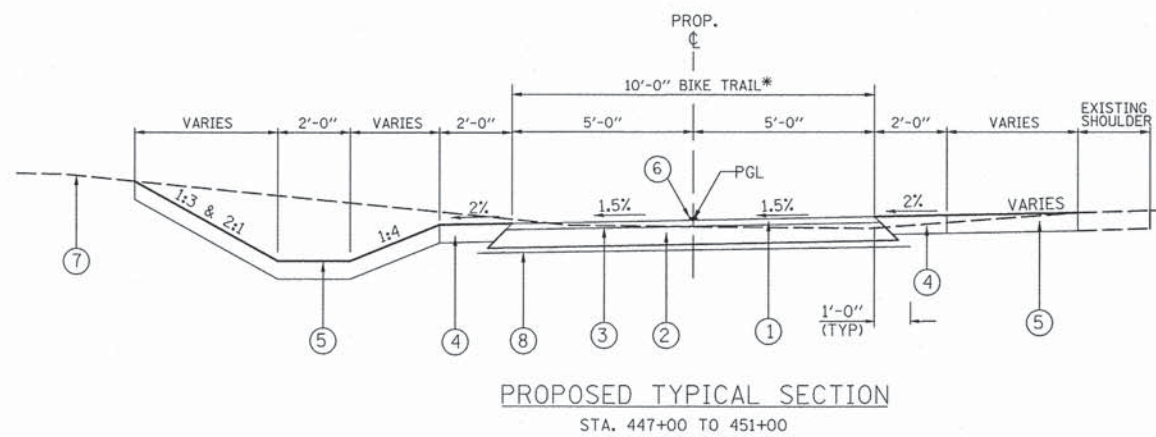
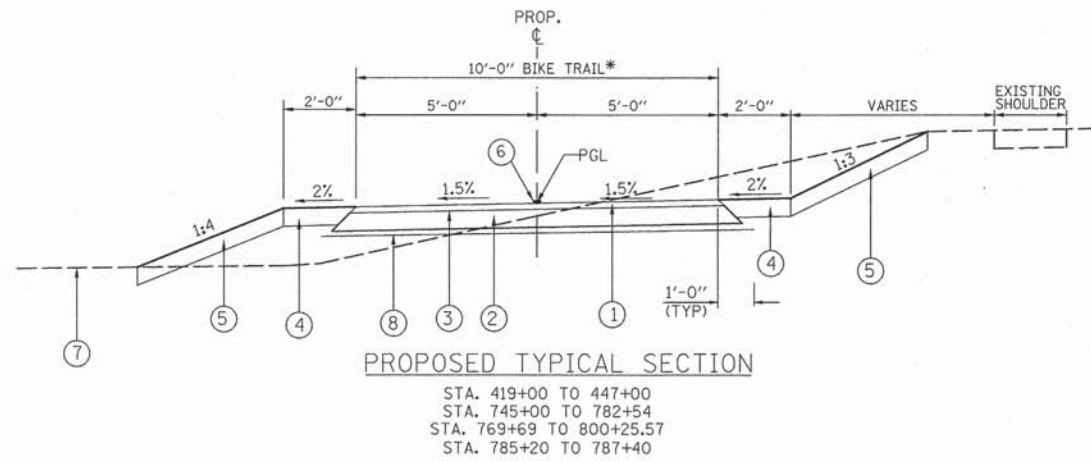
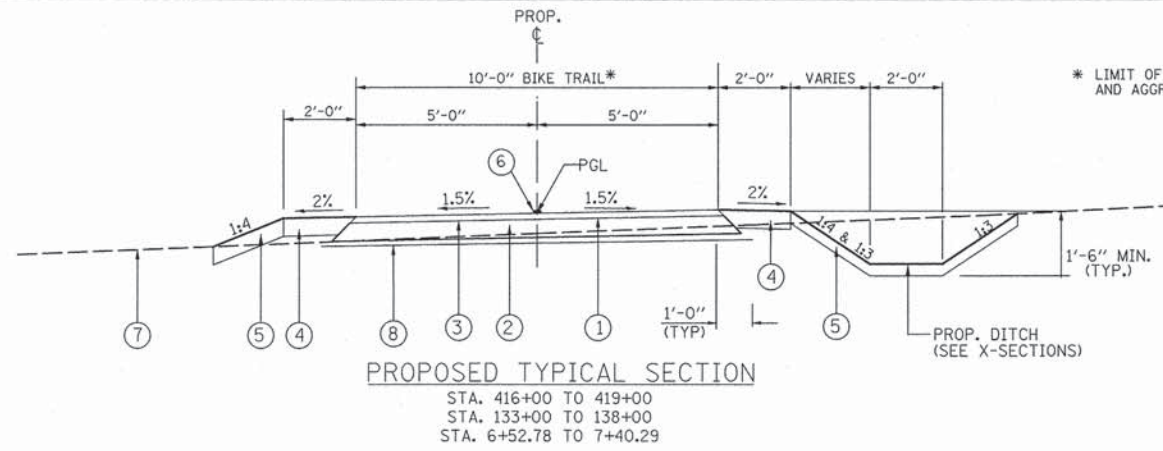
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

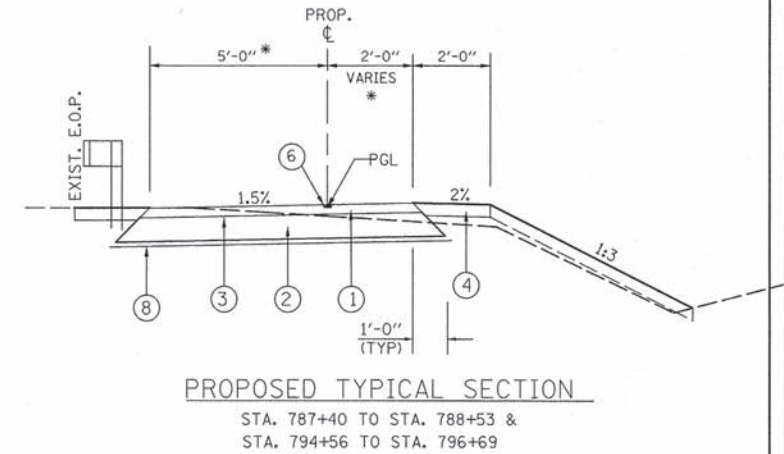
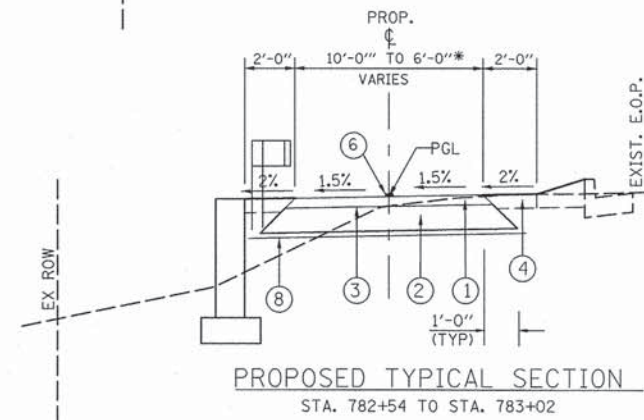
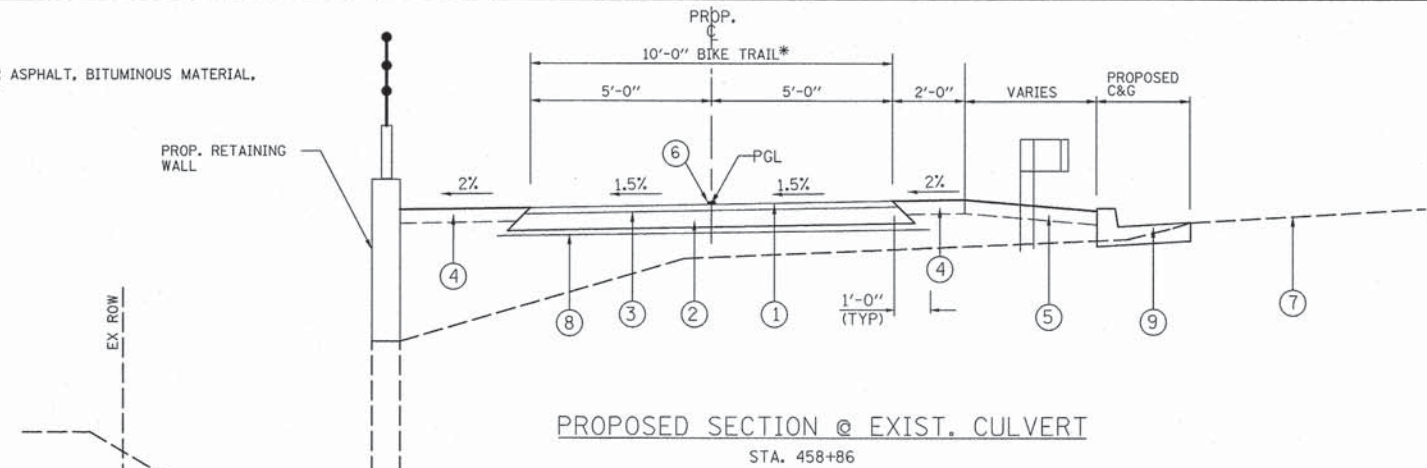
CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
 SUMMARY OF QUANTITIES

SCALE: SHEET NO. OF 11 SHEETS STA. TO STA. —

F.A.P. RTE.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
XX	13-P4000-00-BT	COOK	109	5
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63834	



* LIMIT OF PAYMENT FOR ASPHALT, BITUMINOUS MATERIAL, AND AGGREGATE BASES.



LEGEND :

- ① HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- ② AGGREGATE BASE COURSE, TYPE B, 8"
- ③ BITUMINOUS MATERIAL (PRIME COAT)
- ④ TOPSOIL FURNISH AND PLACE, 6", AND SEEDING, CLASS 1B
- ⑤ TOPSOIL FURNISH AND PLACE, 6", AND SEEDING, CLASS 4A
- ⑥ PAINT PAVEMENT MARKING, 4" YELLOW
- ⑦ EXISTING GROUND
- ⑧ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑨ CURB & GUTTER TYPE B-6.24
- ⑩ HOT-MIX ASPHALT BINDER COURSE, IL-19, N50, 6"

NOTE 1:

WHERE UNSUITABLE MATERIAL UNDERLIES THE BIKE TRAIL, SHOULDERS AND/OR EMBANKMENT, AS DETERMINED BY THE ENGINEER, THE SUBGRADE TREATMENT WILL CONSIST OF EXCAVATION OF SUCH UNSUITABLE MATERIAL TO A DEPTH 12" BELOW AGGREGATE BASE COURSE AND PLACEMENT OF 12" OF AGGREGATE SUBGRADE IMPROVEMENT AND A GEOTECHNICAL FABRIC FOR GROUND STABILIZATION.

NOTE 2:

WHERE THE TRAIL RUNS ADJACENT TO IL ROUTE 83 THE GROUND AREA BETWEEN THE TRAIL AND ROUTE 83 SHALL BE SHAPED TO ELIMINATE ANY SWALES, DITCHES, OR LOW SPOTS.

NOTE 3:

ADDITIONAL FILL MATERIAL TO BE PLACED ABOVE FABRIC IN CUT SECTIONS SHALL NOT BE MEASURED FOR PAYMENT. MATERIAL SHALL BE SUITABLE EMBANKMENT MATERIAL.

NOTE 4:

AT ALL INTERSECTIONS OF BIKE PATH AND ROADWAYS, DEPRESS THE CURB (IF APPLICABLE) AND MAINTAIN EXISTING PAVEMENT ELEVATIONS.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

ITEM	% AIR VOIDS @ Ndes	USAGE
HOT-MIX ASPHALT SURFACE COURSE, MIX. D, N50 (IL 9.5 mm; 2")	4% @ 50 GYR	BIKE PATH SURFACE
HOT-MIX ASPHALT SURFACE COURSE, MIX. D, N50 (IL 9.5 mm; 2")	4% @ 50 GYR	ENTRANCE ROAD AND HMA DRIVEWAYS
HOT-MIX ASPHALT BASE COURSE, (HMA BINDER IL-19 mm; 2-1/2")	4% @ 50 GYR	

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SO YD/IN.

NOTE: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY THE DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

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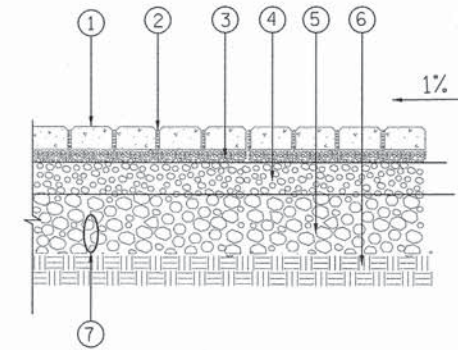
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK) PROPOSED TYPICAL SECTIONS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

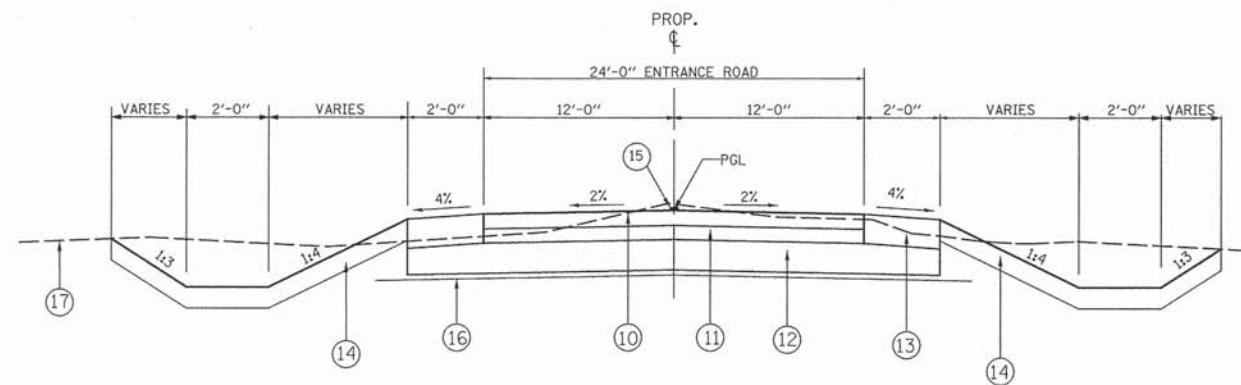
F.A.P. RTE.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
XX	13-P4000-00-BT	COOK	109	6
CONTRACT NO. 63834				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

LEGEND:

- ① PERMEABLE CONCRETE PAVERS MIN. 3 1/8" THICK
- ② CA-16/CRUSHED GRANITE IN OPENINGS
- ③ CA-16 BEDDING 1 1/2" THICK
- ④ CA-7, 6" THICK
- ⑤ CA-1 OPEN-GRADED 2'
- ⑥ SUBGRADE
- ⑦ 8" PERFORATED PIPE



**PROPOSED TYPICAL SECTION
PERMEABLE PAVER PARKING LOT**
STA. 5+47.06 TO 6+50



**PROPOSED TYPICAL SECTION
ENTRANCE ROAD**
STA. 3+25 TO 5+00

- ⑩ HOT MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2"
- ⑪ HOT MIX ASPHALT BASE COURSE, (HMA BINDER IL-19 mm; 2-1/2")
- ⑫ AGGREGATE BASE COURSE, TYPE B, 8"
- ⑬ AGGREGATE SHOULDERS, TYPE B 6"
- ⑭ TOP SOIL FURNISH AND PLACE, 6" AND SEEDING CLASS 4A
- ⑮ PAVEMENT MARKING 4" YELLOW
- ⑯ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑰ EXISTING GROUND

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
PROPOSED TYPICAL SECTIONS**

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

F.A.P. RTE.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
XX	13-P4000-00-BT	COOK	109	7
CONTRACT NO. 63834				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

Palos Park Location	Round directional signs	Round Logo Signs	Rect. Trail Signs	Rect. Info Signs	Decorative sign post	Special Structure	Logo 1 sided	Logo 2 sided	Restroom Sign (arrow)	Bus sign (arrow)	Train Sign (arrow)	Restaur Sign (arrow)	Bike Shop (arrow)	Mile Marker	Sign Sup Brack	Directional Sign Callout with single arrows
415+10								1								
418+55	4		1	1	1										2	(1) Centennial Trail (up), (1) Palos Heights (up), (2) Palos Park (It&rt)
7+20						1	1									
465+18		2			1									2	2	
Park Lot Eng		2			1											
Extras	2				1		1	1								
Subtotal	4	6	1	1	4	1	2	2						2	4	

Alsip (west) Location	Round directional signs	Round Logo Signs	Rect. Trail Signs	Rect. Info Signs	Decorative sign post	Special Structure	Logo 1 sided	Logo 2 sided	Restroom Sign (arrow)	Bus sign (arrow)	Train Sign (arrow)	Restaur Sign (arrow)	Bike Shop (arrow)	Mile Marker	Sign Sup Brack	Directional Sign Callout with single arrows
722+04	2	2			1									2		(1) Palos Heights (up), (1) Alsip (up)
774+84		2			1									2		
781+00								1								
782+20	2	2	1	1	1									2		(1) Palos Heights (up), (1) Alsip (up)
785+30	2	2			1									2		(1) Palos Heights (rt), (1) Alsip (up)
797+00	2	2			1											(1) Palos Heights (up), (1) Alsip (up)
132+52		2			1									2		
137+85	4		1	1	1									2		(1) Palos Heights (up), (1) Blue Island (up), (2) Freedom Park (It&rt)
137+86 LT						1	1									
Extras		2			1		1	1								
Subtotal	12	14	2	2	8	1	2	2						6	6	

DECORATIVE SIGN AND MONUMENT SCHEDULE

EARTHWORK TABLE					
STATION TO	STATION	UNSUITABLE EXCAVATION (REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL) CU YD	UNSUITABLE MATERIAL ADJUSTED FOR SHRINKAGE (25%) CU YD	TOPSOIL FURNISH AND PLACE, 6" CU YD	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (UNSUITABLE MATERIAL) CU YD
415+00.	468+65.88	5326	3995	1743	2252
745+00.	800+00.	2030	1523	1035	488
105+13.5	140+00.	3352	2514	1154	1360
3+25.	7+40.29	980	735	209	526
TOTAL:		11688	8766	4141	4625

EARTHWORK TABLE CONT.					
STATION TO	STATION	EARTH EXCAVATION (SUITABLE MATERIAL) CU YD	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%) CU YD	SUITABLE EMBANKMENT CU YD	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (SUITABLE MATERIAL) CU YD
415+00.	468+65.88	6973	5230	5309	-79
745+00.	800+00.	153	115	2788	-2673
105+13.5	140+00.	1483	1112	2003	-891
3+25.	7+40.29	1128	846	305	541
TOTAL:		9737	7303	10405	-3102

PROPOSED TREE SCHEDULE											
TREE, CARYA OVATA (SHAGBARK HICKORY), 1-3/4" CALIPER, BALLED AND BURLAPPED			TREE, QUERCUS ALBA (WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED			TREE, TILIA AMERICANA (AMERICAN LINDEN/ BASSWOOD), 1-3/4" CALIPER, BALLED AND BURLAPPED					
STATION	OFFSET (FT)		EACH	STATION	OFFSET (FT)		EACH	STATION	OFFSET (FT)		EACH
	LT	RT			LT	RT			LT	RT	
574+75.00		15	1	534+17.32	82.9		1	533+87.32	82.9		1
575+00.00		15	1	534+77.32	82.9		1	534+47.32	82.9		1
576+75.00		15	1	573+25.13		15	1	573+50.00		15	1
3+64.88		15	1	574+50.00		15	1	574+75.00		15	1
3+91.51	15		1	576+25.00		15	1	576+50.00		15	1
4+74.82		15	1	577+00.00		15	1	577+25.48		15	1
				3+74.10	15		1	3+42.88	15		1
				4+23.55		15	1	4+04.24		15	1
				4+86.70	15		1	4+17.70	15		1

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
SUMMARY OF QUANTITIES/SCHEDULES

F.A.P. RTE. XX	SECTION 13-P4000-00-BT	CITY COOK	TOTAL SHEETS 109	SHEET NO. 8
CONTRACT NO. 63834				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. OF 11 SHEETS STA. TO STA.

SIGN INSTALLATION SCHEDULE									
STATION	RT/LT	SIGN	DESIGNATION	SIGN PANEL DIMENSIONS (IN)		TYPE A POST (EACH)	TYPE B POST (EACH)	LENGTH/POST (FT)	TOTAL LENGTH (FT)
200' FROM PARKING LOT ENTRANCE (IL 83 WB)	RT	PARKING	CUSTOM	24	24	1	-	10.5	10.5
200' FROM PARKING LOT ENTRANCE (IL 83 EB)	LT	PARKING	CUSTOM	24	24	1	-	10.5	10.5
3+34.00	LT	STOP	R1-1	24	24	1	-	10.5	10.5
6+12.15	LT	HANDICAP	R7-8	12	18	1	-	10	10
6+32.68	LT	HANDICAP	R7-8	12	18	1	-	10	10
6+63.00	RT	STOP	R1-1	18	18	1	-	10	10
6+63.00	RT	NO MOTOR VEHICLES	R5-3	18	18		-	10	0
427+93.00	RT	HILL	W7-5	18	18	1	-	10	10
450+77.00	RT	STOP	R1-1	18	18	1	-	10	10
451+95.00	LT	STOP	R1-1	18	18	1	-	10	10
775+45.00	RT	MULTIPLE CURVE WARNING	W1-5	18	18	1	-	10	10
781+75.00	RT	WALK BIKES		18	18	1	-	10	10
783+30.74	RT	ARROW	W16-7P	24	12		-	9.5	0
784+06.61	LT	ARROW	W16-7P	24	12		-	9.5	0
785+15.00	RT	ARROW	W16-7P	24	12		-	9.5	0
786+00.00	LT	WALK BIKES		18	18	1	-	10	10
133+00.00	RT	HILL	W7-5	18	18	1	-	10	10
138+50.00	RT	HILL	W7-5	18	18	1	-	10	10

784+06.75	LT	Bicycle	W11-1	36	36			11.5	0
785+42.75	RT	Bicycle	W11-1	36	36		1	11.5	11.5
782+33.38	RT	Bicycle	W11-1	36	36		1	11.5	11.5
783+30.74	RT	Bicycle	W11-1	36	36			11.5	0
785+15.00	LT	Bicycle	W11-1	36	36		1	11.5	11.5

SIGN RELOCATION SCHEDULE					
STATION	Offset	RT/LT	EACH		
436+04.00	6.41	RT	1		
437+25.30	8.9	RT	1	Chevron	
437+98.06	5.1	RT	1	Chevron	
438+69.52	6.5	RT	1	Chevron	
439+32.20	9.1	RT	1	Chevron	
441+48.36	7.6	RT	1	Chevron	
442+93.28	7.5	RT	1	Chevron	
443+98.15	8.8	RT	1	Chevron	
445+08.71	3.3	RT	1	Chevron	
446+22.49	2.7	RT	1	Chevron	
447+24.42	4.5	RT	1	Chevron	
448+02.99	5.1	RT	1	Chevron	
448+82.76	6.1	RT	1	Chevron	
450+88.76	4.94	RT	1	Street name	
450+99.34	3.3	RT	1	Private entrance no outlet	
451+00.56	2.92	RT	1	Private entrance no outlet	
451+07.74	2.53	RT	1	Stop	
466+27.07	5.40	RT	1	No engine braking	
467+32.86	7.83	RT	1	North IL 83	
786+77.52	14.22	LT	1	Speed Limit (40)	

FILE NAME = D:\P\clients\highlights_25388779_Cal-Sag\Trail\11es\p2\Roadway\N1\asp\General\Sign_Schedule.dgn



USER NAME = David.Landwehr	DESIGNED - MIA & AB	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)			
SIGN INSTALLATION SCHEDULE			
SCALE: —	SHEET NO. 1 OF 1 SHEETS	STA. —	TO STA. —

F.A.P. RTE.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
XX	13-P4000-00-BT	COOK	109	9
CONTRACT NO. 63834				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

TREE REMOVAL SCHEDULE				
STATION	OFFSET (FT)		6-15 UNITS	> 15 UNITS
	LT	RT		
435+66.92	8.2		12	
435+77.81	7.7		12	
439+50.51	11.5		10	
439+77.91	16.6		7	
440+54.34	5.0			21
440+75.88		1.6		24
441+54.17	9.8			18
441+85.39	2.9			18
441+98.46	2.2		10	
442+72.19	3.2		12	
443+11.90	6.7			18
443+76.78	11.1			18
444+02.78	6.0		15	
444+06.81	7.1		15	
444+61.68	4.3			21
444+74.18	1.8			18
445+03.07	5.0			24
445+09.88	5.4			18
445+33.96	12.4		13	
445+98.22	5.1		8	
455+78.38	6.5		12	
455+86.39	5.9		8	
785+57.66	7.5		12	
795+41.70		7.9	12	
795+44.50		5.1	12	
795+57.32	6.7		12	
795+75.10	6.0		12	
795+91.09		1.7	12	
795+92.08		0.9	12	
796+28.40		1.7	7	
796+37.49		0.3	10	
797+60.28	4.5		15	
105+35.42		12.2	12	
105+36.68		9.8	15	
105+37.34		13.1	13	
106+29.29		10.6	8	
106+72.49	8.9		7	
106+72.73	6.6		8	
106+91.01	9.7		8	
106+98.52	5.8		10	
107+36.59		9.5	13	
107+37.23		9.8	13	
107+48.44		11.1	12	
107+53.50		9.6	14	
107+61.79	10.8		9	
107+67.08	6.8		6	
107+74.06		8.4	10	
108+89.59		10.6	12	
109+95.20		15.5	10	
112+87.55		2.3	8	

TREE REMOVAL SCHEDULE				
STATION	OFFSET (FT)		6-15 UNITS	> 15 UNITS
	LT	RT		
112+90.83		7.0	9	
114+00.00	16.8		8	
114+27.50	11.7		8	
117+15.70	10.2		6	
117+16.32		2.1	8	
117+25.07	8.3		7	
118+08.25	5.6		12	
118+09.60	10.7		12	
119+22.00	15.7		8	
119+31.60	11.5		8	
119+36.60	9.0	9.0		
119+47.16	2.1		6	
119+88.40	9.7		8	
119+93.64	6.4		14	
119+96.83	5.9		8	
120+05.30	14.6		12	
120+13.31	8.8			16
120+68.00	14.8		7	
120+70.47	7.8		8	
121+23.70	15.0		12	
121+31.13	9.5		8	
121+37.42	8.0		10	
121+77.00	16.0		12	
121+79.63	10.7			18
122+01.79	10.3		12	
122+08.05	10.1		12	
122+32.46		8.0	8	
122+33.34	10.5		8	
122+40.50	13.3		10	
122+52.99	12.2		14	
123+36.84	7.2		8	
123+53.43	8.8		10	
123+92.00	11.0		8	
124+12.90	11.5		8	
124+23.40	14.0		12	
124+44.00	14.2		12	
124+74.20	12.2		7	
124+97.01		11.3	7	
125+20.52	9.5		8	
125+28.26	5.9		8	
125+45.99	13.2		12	
125+58.16	11.3		15	
126+08.23	5.4		9	
126+23.09	11.9		10	
126+39.18	13.1		8	
126+48.51	8.3		8	
127+11.50	13.9			16
127+28.39	8.0		10	
127+30.80	11.2			18
127+49.40	14.6			24
127+79.08	4.8		8	

TREE REMOVAL SCHEDULE				
STATION	OFFSET (FT)		6-15 UNITS	> 15 UNITS
	LT	RT		
128+11.00	13.6		12	
128+35.70	12.3		12	
128+91.60	11.1		12	
129+97.00	13.6		8	
130+78.60	12.1		8	
131+50.70	13.2		10	
132+11.50	16.8		12	
132+17.10	16.3		12	
132+22.10	13.6			18
133+46.76	12.3		12	
133+50.69	12.4			19
133+54.37	9.9		9	
134+74.13		1.4	7	
134+76.13		6.2	10	
134+79.21		6.5	10	
134+81.89		7.8	12	
134+85.50		9.2	15	
138+30.52	12.2		7	
139+45.50		5.0	15	
SUBTOTAL:			1044	327
50% CONTINGENCY:			522	164
TOTAL:			1566	491
Palos Park 201 297				
Alsip 1365.00 193.50				
Total 1566.00 490.50				

TREE REMOVAL MEASURED IN ACRES
STATION 422+00 TO 435+00
TREE REMOVAL (ACRES) = 1.2 ACRES

STATION	LT	RT	EACH
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TREE TRUNK PROTECTION SCHEDULE			
STATION	OFFSET (FT)		EACH
	LT	RT	
450+91.80	8.6		1
451+83.40	10.9		1
453+96.80	11.2		1
454+03.60	9.9		1
454+17.40	10.7		1
454+81.20	10.9		1
455+09.90	10.5		1
455+51.60	9.6		1
456+18.40	8.6		1
456+39.30	11.4		1
456+83.10	9.5		1
457+16.60	10.9		1
457+25.60	10.9		1
458+28.30	15.7		1
458+38.90	15.6		1
SUBTOTAL:			15
15% CONTINGENCY:			17.3
TOTAL:			18.0
Palos Park			18.00
Alsip			0.00
Total			18.00

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USER NAME = David.Landwehr
PLOT SCALE = 10,0000 "/>

DESIGNED - MIA & AB
DRAWN - MIA & AB
CHECKED - DDL
DATE - 10/25/2013

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
TREE REMOVAL AND TREE PROTECTION SCHEDULES
SCALE: — SHEET NO. 1 OF 1 SHEETS STA. — TO STA. —

F.A.P. RTE.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
XX	13-P4000-00-BT	COOK	109	10
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63834	



PROP. CURVE ENT PARK-1
 PI STA. = 5+18.49
 $\Delta = 72^\circ 26' 29''$ (RT)
 $D = 114^\circ 35' 30''$
 $R = 50.00'$
 $T = 36.62'$
 $L = 63.22'$
 $E = 11.98'$
 P.C. STA. = 4+81.86
 P.T. STA. = 5+45.08

PROP. CURVE ENT PARK-2
 PI STA. = 7+00.70
 $\Delta = 82^\circ 07' 29''$ (LT)
 $D = 104^\circ 10' 27''$
 $R = 55.00'$
 $T = 47.92'$
 $L = 78.83'$
 $E = 17.94'$
 P.C. STA. = 6+52.78
 P.T. STA. = 7+31.61

PROP. CURVE CALSAG11091-160
 PI STA. = 416+16.56
 $\Delta = 5^\circ 11' 17''$ (LT)
 $D = 4^\circ 46' 29''$
 $R = 1,200.00'$
 $T = 54.37'$
 $L = 108.66'$
 $E = 1.23'$
 P.C. STA. = 415+62.19
 P.T. STA. = 416+70.85

PROP. CURVE CALSAG11091-161
 PI STA. = 422+42.56
 $\Delta = 1^\circ 36' 24''$ (RT)
 $D = 11^\circ 27' 33''$
 $R = 500.00'$
 $T = 7.01'$
 $L = 14.02'$
 $E = 0.05'$
 P.C. STA. = 422+35.55
 P.T. STA. = 422+49.57

PROP. CURVE CALSAG11091-162
 PI STA. = 424+51.75
 $\Delta = 2^\circ 52' 49''$ (RT)
 $D = 5^\circ 43' 46''$
 $R = 1,000.00'$
 $T = 25.14'$
 $L = 50.27'$
 $E = 0.32'$
 P.C. STA. = 424+26.61
 P.T. STA. = 424+76.88

PROP. CURVE CALSAG11091-163
 PI STA. = 426+84.70
 $\Delta = 57^\circ 46' 39''$ (RT)
 $D = 5^\circ 43' 46''$
 $R = 120.00'$
 $T = 66.21'$
 $L = 121.01'$
 $E = 17.06'$
 P.C. STA. = 426+18.49
 P.T. STA. = 427+39.50

PROP. CURVE CALSAG11091-164
 PI STA. = 430+22.45
 $\Delta = 62^\circ 25' 37''$ (LT)
 $D = 47^\circ 44' 47''$
 $R = 120.00'$
 $T = 72.71'$
 $L = 130.75'$
 $E = 20.31'$
 P.C. STA. = 429+49.74
 P.T. STA. = 430+80.49

PROP. CURVE CALSAG11091-165
 PI STA. = 438+72.83
 $\Delta = 28^\circ 18' 59''$ (RT)
 $D = 4^\circ 05' 33''$
 $R = 1,400.00'$
 $T = 353.17'$
 $L = 691.90'$
 $E = 43.86'$
 P.C. STA. = 435+19.66
 P.T. STA. = 442+11.56

PROP. CURVE CALSAG11091-166
 PI STA. = 443+21.72
 $\Delta = 7^\circ 53' 23''$ (RT)
 $D = 3^\circ 35' 12''$
 $R = 1,597.48'$
 $T = 110.16'$
 $L = 219.98'$
 $E = 3.79'$
 P.C. STA. = 442+11.56
 P.T. STA. = 444+31.54

PROP. CURVE CALSAG11091-167
 PI STA. = 444+60.71
 $\Delta = 6^\circ 40' 43''$ (RT)
 $D = 11^\circ 27' 33''$
 $R = 500.00'$
 $T = 29.17'$
 $L = 58.28'$
 $E = 0.85'$
 P.C. STA. = 444+31.54
 P.T. STA. = 444+89.82

PROP. CURVE CALSAG11091-168
 PI STA. = 447+66.68
 $\Delta = 12^\circ 41' 37''$ (RT)
 $D = 3^\circ 49' 11''$
 $R = 1,500.00'$
 $T = 166.84'$
 $L = 332.31'$
 $E = 9.25'$
 P.C. STA. = 445+99.84
 P.T. STA. = 449+32.15

PROP. CURVE CALSAG11091-169
 PI STA. = 457+83.83
 $\Delta = 3^\circ 22' 39''$ (LT)
 $D = 1^\circ 32' 49''$
 $R = 3,704.00'$
 $T = 109.21'$
 $L = 218.35'$
 $E = 1.61'$
 P.C. STA. = 456+74.62
 P.T. STA. = 458+92.98

PROP. CURVE RTE83-1
 PI STA. = 459+94.33
 $\Delta = 12^\circ 48' 33''$ (LT)
 $D = 7^\circ 09' 43''$
 $R = 800.00'$
 $T = 89.80'$
 $L = 178.85'$
 $E = 5.02'$
 P.C. STA. = 459+04.53
 P.T. STA. = 460+83.38

PROP. CURVE RTE83-2
 PI STA. = 461+05.65
 $\Delta = 2^\circ 33' 06''$ (RT)
 $D = 5^\circ 43' 46''$
 $R = 1,000.00'$
 $T = 22.27'$
 $L = 44.53'$
 $E = 0.25'$
 P.C. STA. = 460+83.38
 P.T. STA. = 461+27.92

PROP. CURVE RTE83-3
 PI STA. = 463+59.38
 $\Delta = 17^\circ 33' 27''$ (LT)
 $D = 9^\circ 32' 57''$
 $R = 600.00'$
 $T = 92.66'$
 $L = 183.86'$
 $E = 7.11'$
 P.C. STA. = 461+51.98
 P.T. STA. = 463+35.84

PROP. CURVE RTE83-4
 PI STA. = 463+53.20
 $\Delta = 4^\circ 43' 01''$ (RT)
 $D = 38^\circ 11' 50''$
 $R = 150.00'$
 $T = 6.18'$
 $L = 12.35'$
 $E = 0.13'$
 P.C. STA. = 463+53.20
 P.T. STA. = 463+65.55

PROP. CURVE RTE83-5
 PI STA. = 465+34.13
 $\Delta = 3^\circ 46' 14''$ (LT)
 $D = 19^\circ 05' 55''$
 $R = 300.00'$
 $T = 9.88'$
 $L = 19.74'$
 $E = 0.16'$
 P.C. STA. = 465+24.25
 P.T. STA. = 465+43.99

PROP. CURVE RTE83-6
 PI STA. = 466+81.68
 $\Delta = 14^\circ 59' 20''$ (LT)
 $D = 6^\circ 19' 59''$
 $R = 904.73'$
 $T = 119.02'$
 $L = 236.68'$
 $E = 7.80'$
 P.C. STA. = 465+62.66
 P.T. STA. = 467+99.34

PROP. CURVE RTE83-7
 PI STA. = 468+84.39
 $\Delta = 66^\circ 23' 07''$ (LT)
 $D = 44^\circ 04' 25''$
 $R = 130.00'$
 $T = 85.05'$
 $L = 150.62'$
 $E = 25.35'$
 P.C. STA. = 467+99.34
 P.T. STA. = 469+49.96

STA. EQUATION
 STA. 468+65.88 WEST SEG 1 BACK
 STA. 468+65.00 WEST SEG 2 AHEAD

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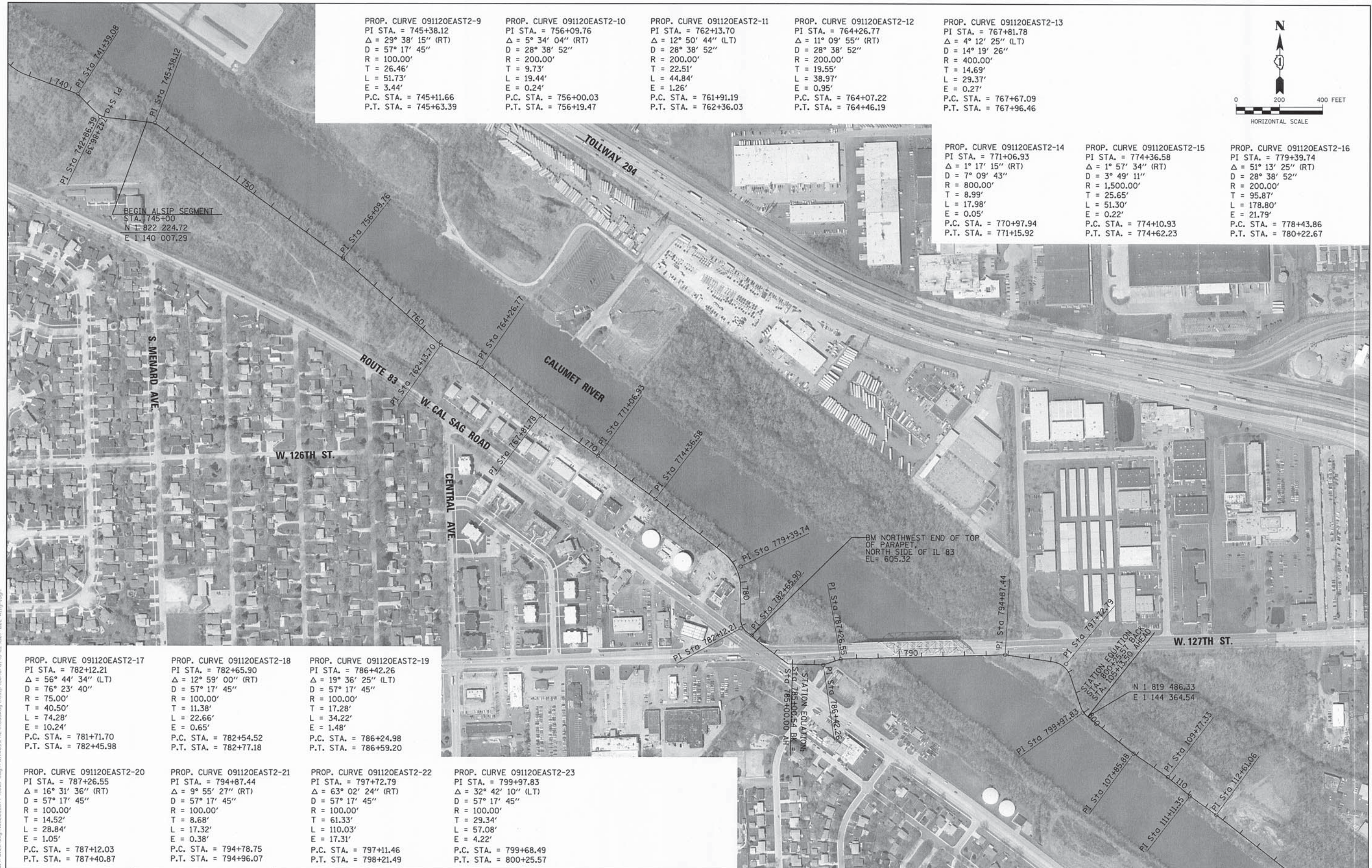


USER NAME = David.Landwehr	DESIGNED - MIA & AB	REVISED -
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	DATE - 10/25/2013	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK) ALIGNMENT & BENCHMARK			
SCALE: 200	SHEET NO. OF SHEETS	STA. 416+00.00 TO STA. 468+65.88	F.A.P. RTE. SECTION CITY TOTAL SHEETS SHEET NO.
			XX 13-P4000-00-BT COOK 109 11
			CONTRACT NO. 63834

F.A.P. RTE. SECTION CITY TOTAL SHEETS SHEET NO.
XX 13-P4000-00-BT COOK 109 11
CONTRACT NO. 63834
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



PROP. CURVE 091120EAST2-9
 PI STA. = 745+38.12
 $\Delta = 29^\circ 38' 15''$ (RT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 26.46'$
 $L = 51.73'$
 $E = 3.44'$
 P.C. STA. = 745+11.66
 P.T. STA. = 745+63.39

PROP. CURVE 091120EAST2-10
 PI STA. = 756+09.76
 $\Delta = 5^\circ 34' 04''$ (RT)
 $D = 28^\circ 38' 52''$
 $R = 200.00'$
 $T = 9.73'$
 $L = 19.44'$
 $E = 0.24'$
 P.C. STA. = 756+00.03
 P.T. STA. = 756+19.47

PROP. CURVE 091120EAST2-11
 PI STA. = 762+13.70
 $\Delta = 12^\circ 50' 44''$ (LT)
 $D = 28^\circ 38' 52''$
 $R = 200.00'$
 $T = 22.51'$
 $L = 44.84'$
 $E = 1.26'$
 P.C. STA. = 761+91.19
 P.T. STA. = 762+36.03

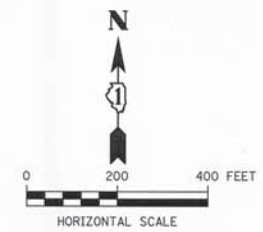
PROP. CURVE 091120EAST2-12
 PI STA. = 764+26.77
 $\Delta = 11^\circ 09' 55''$ (RT)
 $D = 28^\circ 38' 52''$
 $R = 200.00'$
 $T = 19.55'$
 $L = 38.97'$
 $E = 0.95'$
 P.C. STA. = 764+07.22
 P.T. STA. = 764+46.19

PROP. CURVE 091120EAST2-13
 PI STA. = 767+81.78
 $\Delta = 4^\circ 12' 25''$ (LT)
 $D = 14^\circ 19' 26''$
 $R = 400.00'$
 $T = 14.69'$
 $L = 29.37'$
 $E = 0.27'$
 P.C. STA. = 767+67.09
 P.T. STA. = 767+96.46

PROP. CURVE 091120EAST2-14
 PI STA. = 771+06.93
 $\Delta = 1^\circ 17' 15''$ (RT)
 $D = 7^\circ 09' 43''$
 $R = 800.00'$
 $T = 8.99'$
 $L = 17.98'$
 $E = 0.05'$
 P.C. STA. = 770+97.94
 P.T. STA. = 771+15.92

PROP. CURVE 091120EAST2-15
 PI STA. = 774+36.58
 $\Delta = 1^\circ 57' 34''$ (RT)
 $D = 3^\circ 49' 11''$
 $R = 1,500.00'$
 $T = 25.65'$
 $L = 51.30'$
 $E = 0.22'$
 P.C. STA. = 774+10.93
 P.T. STA. = 774+62.23

PROP. CURVE 091120EAST2-16
 PI STA. = 779+39.74
 $\Delta = 51^\circ 13' 25''$ (RT)
 $D = 28^\circ 38' 52''$
 $R = 200.00'$
 $T = 95.87'$
 $L = 178.80'$
 $E = 21.79'$
 P.C. STA. = 778+43.86
 P.T. STA. = 780+22.67



PROP. CURVE 091120EAST2-17
 PI STA. = 782+12.21
 $\Delta = 56^\circ 44' 34''$ (LT)
 $D = 76^\circ 23' 40''$
 $R = 75.00'$
 $T = 40.50'$
 $L = 74.28'$
 $E = 10.24'$
 P.C. STA. = 781+71.70
 P.T. STA. = 782+45.98

PROP. CURVE 091120EAST2-18
 PI STA. = 782+65.90
 $\Delta = 12^\circ 59' 00''$ (RT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 11.38'$
 $L = 22.66'$
 $E = 0.65'$
 P.C. STA. = 782+54.52
 P.T. STA. = 782+77.18

PROP. CURVE 091120EAST2-19
 PI STA. = 786+42.26
 $\Delta = 19^\circ 36' 25''$ (LT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 17.28'$
 $L = 34.22'$
 $E = 1.48'$
 P.C. STA. = 786+24.98
 P.T. STA. = 786+59.20

PROP. CURVE 091120EAST2-20
 PI STA. = 787+26.55
 $\Delta = 16^\circ 31' 36''$ (RT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 14.52'$
 $L = 28.84'$
 $E = 1.05'$
 P.C. STA. = 787+12.03
 P.T. STA. = 787+40.87

PROP. CURVE 091120EAST2-21
 PI STA. = 794+87.44
 $\Delta = 9^\circ 55' 27''$ (RT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 8.68'$
 $L = 17.32'$
 $E = 0.38'$
 P.C. STA. = 794+78.75
 P.T. STA. = 794+96.07

PROP. CURVE 091120EAST2-22
 PI STA. = 797+72.79
 $\Delta = 63^\circ 02' 24''$ (RT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 61.33'$
 $L = 110.03'$
 $E = 17.31'$
 P.C. STA. = 797+11.46
 P.T. STA. = 798+21.49

PROP. CURVE 091120EAST2-23
 PI STA. = 799+97.83
 $\Delta = 32^\circ 42' 10''$ (LT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 29.34'$
 $L = 57.08'$
 $E = 4.22'$
 P.C. STA. = 799+68.49
 P.T. STA. = 800+25.57

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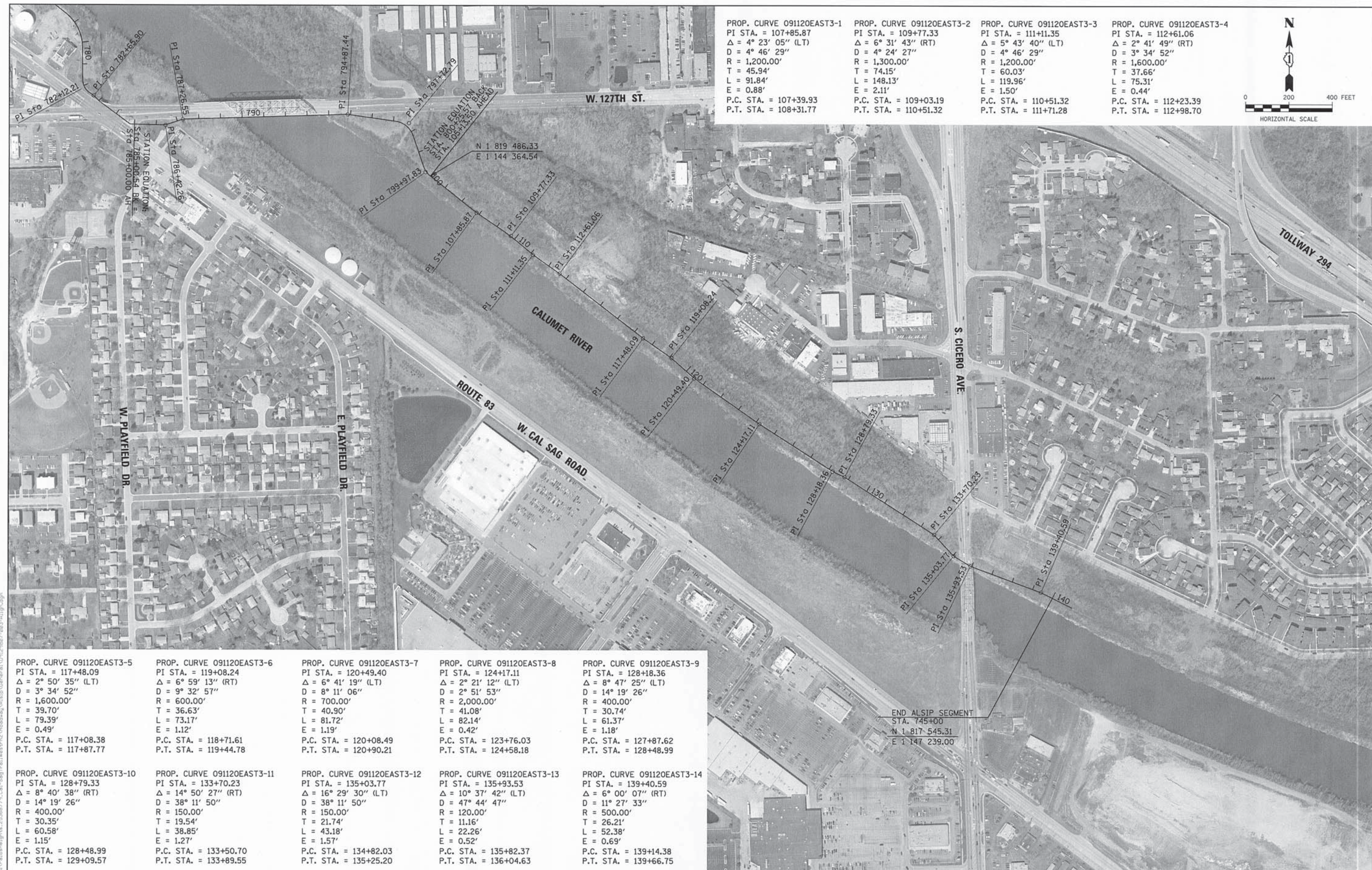
USER NAME: David.Landwehr	DESIGNED: MIA & AB	REVISED:
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	DATE: 10/25/2013	REVISED:

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

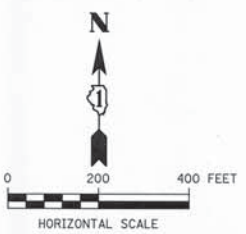
CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
 ALIGNMENT & BENCHMARK

SCALE: 200 SHEET NO. OF SHEETS STA. 745+00 TO STA. 800+25.57

F.A.P. NO. XX	SECTION 13-P4000-00-BT	CITY COOK	TOTAL SHEETS 109	SHEET NO. 12
CONTRACT NO. 63834				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PROP. CURVE 091120EAST3-1 PI STA. = 107+85.87 $\Delta = 4^\circ 23' 05''$ (LT) $D = 4^\circ 46' 29''$ $R = 1,200.00'$ $T = 45.94'$ $L = 91.84'$ $E = 0.88'$ P.C. STA. = 107+39.93 P.T. STA. = 108+31.77	PROP. CURVE 091120EAST3-2 PI STA. = 109+77.33 $\Delta = 6^\circ 31' 43''$ (RT) $D = 4^\circ 24' 27''$ $R = 1,300.00'$ $T = 74.15'$ $L = 148.13'$ $E = 2.11'$ P.C. STA. = 109+03.19 P.T. STA. = 110+51.32	PROP. CURVE 091120EAST3-3 PI STA. = 111+11.35 $\Delta = 5^\circ 43' 40''$ (LT) $D = 4^\circ 46' 29''$ $R = 1,200.00'$ $T = 60.03'$ $L = 119.96'$ $E = 1.50'$ P.C. STA. = 110+51.32 P.T. STA. = 111+71.28	PROP. CURVE 091120EAST3-4 PI STA. = 112+61.06 $\Delta = 2^\circ 41' 49''$ (RT) $D = 3^\circ 34' 52''$ $R = 1,600.00'$ $T = 37.66'$ $L = 75.31'$ $E = 0.44'$ P.C. STA. = 112+23.39 P.T. STA. = 112+98.70
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PROP. CURVE 091120EAST3-5 PI STA. = 117+48.09 $\Delta = 2^\circ 50' 35''$ (LT) $D = 3^\circ 34' 52''$ $R = 1,600.00'$ $T = 39.70'$ $L = 79.39'$ $E = 0.49'$ P.C. STA. = 117+08.38 P.T. STA. = 117+87.77	PROP. CURVE 091120EAST3-6 PI STA. = 119+08.24 $\Delta = 6^\circ 59' 13''$ (RT) $D = 9^\circ 32' 57''$ $R = 600.00'$ $T = 36.63'$ $L = 73.17'$ $E = 1.12'$ P.C. STA. = 118+71.61 P.T. STA. = 119+44.78	PROP. CURVE 091120EAST3-7 PI STA. = 120+49.40 $\Delta = 6^\circ 41' 19''$ (LT) $D = 8^\circ 11' 06''$ $R = 700.00'$ $T = 40.90'$ $L = 81.72'$ $E = 1.19'$ P.C. STA. = 120+08.49 P.T. STA. = 120+90.21	PROP. CURVE 091120EAST3-8 PI STA. = 124+17.11 $\Delta = 2^\circ 21' 12''$ (LT) $D = 2^\circ 51' 53''$ $R = 2,000.00'$ $T = 41.08'$ $L = 82.14'$ $E = 0.42'$ P.C. STA. = 123+76.03 P.T. STA. = 124+58.18	PROP. CURVE 091120EAST3-9 PI STA. = 128+18.36 $\Delta = 8^\circ 47' 25''$ (LT) $D = 14^\circ 19' 26''$ $R = 400.00'$ $T = 30.74'$ $L = 61.37'$ $E = 1.18'$ P.C. STA. = 127+87.62 P.T. STA. = 128+48.99
PROP. CURVE 091120EAST3-10 PI STA. = 128+79.33 $\Delta = 8^\circ 40' 38''$ (RT) $D = 14^\circ 19' 26''$ $R = 400.00'$ $T = 30.35'$ $L = 60.58'$ $E = 1.15'$ P.C. STA. = 128+48.99 P.T. STA. = 129+09.57	PROP. CURVE 091120EAST3-11 PI STA. = 133+70.23 $\Delta = 14^\circ 50' 27''$ (RT) $D = 38^\circ 11' 50''$ $R = 150.00'$ $T = 19.54'$ $L = 38.85'$ $E = 1.27'$ P.C. STA. = 133+50.70 P.T. STA. = 133+89.55	PROP. CURVE 091120EAST3-12 PI STA. = 135+03.77 $\Delta = 16^\circ 29' 30''$ (LT) $D = 38^\circ 11' 50''$ $R = 150.00'$ $T = 21.74'$ $L = 43.18'$ $E = 1.57'$ P.C. STA. = 134+82.03 P.T. STA. = 135+25.20	PROP. CURVE 091120EAST3-13 PI STA. = 135+93.53 $\Delta = 10^\circ 37' 42''$ (LT) $D = 47^\circ 44' 47''$ $R = 120.00'$ $T = 11.16'$ $L = 22.26'$ $E = 0.52'$ P.C. STA. = 135+82.37 P.T. STA. = 136+04.63	PROP. CURVE 091120EAST3-14 PI STA. = 139+40.59 $\Delta = 6^\circ 00' 07''$ (RT) $D = 11^\circ 27' 33''$ $R = 500.00'$ $T = 26.21'$ $L = 52.38'$ $E = 0.69'$ P.C. STA. = 139+14.38 P.T. STA. = 139+66.75

END ALSIP SEGMENT
 STA. 145+00
 N 1 817 545.31
 E 1 147 239.00

FILE NAME: D:\PalosHeights\2013080779_Cal-Sag Trail\1120EAST3-13.dwg



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PLOT DATE = 11/13/2013 4:24:29 PM	CHECKED = DDL	REVISED =
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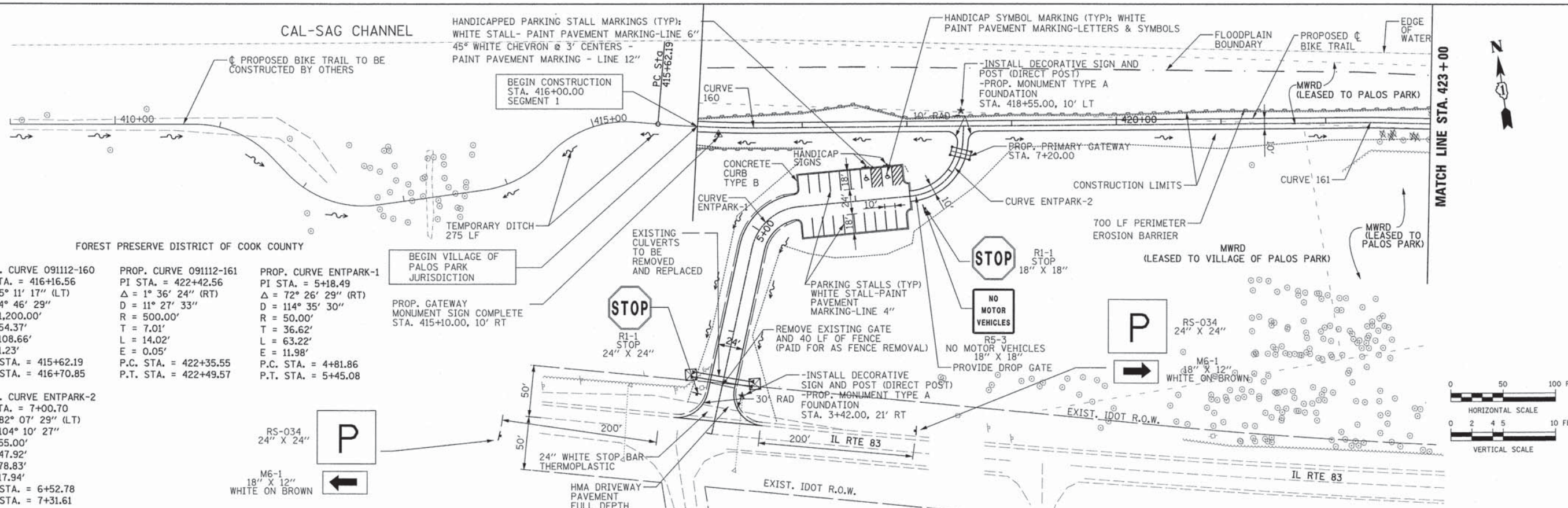
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK) ALIGNMENT & BENCHMARK		F.A.P. RTE. XX	SECTION 13-P4000-00-BT	CITY COOK	TOTAL SHEETS 109	SHEET NO. 13
SCALE: 200	SHEET NO. OF SHEETS	STA. 105+13.50	TO STA. 140+00	CONTRACT NO. 63834		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						

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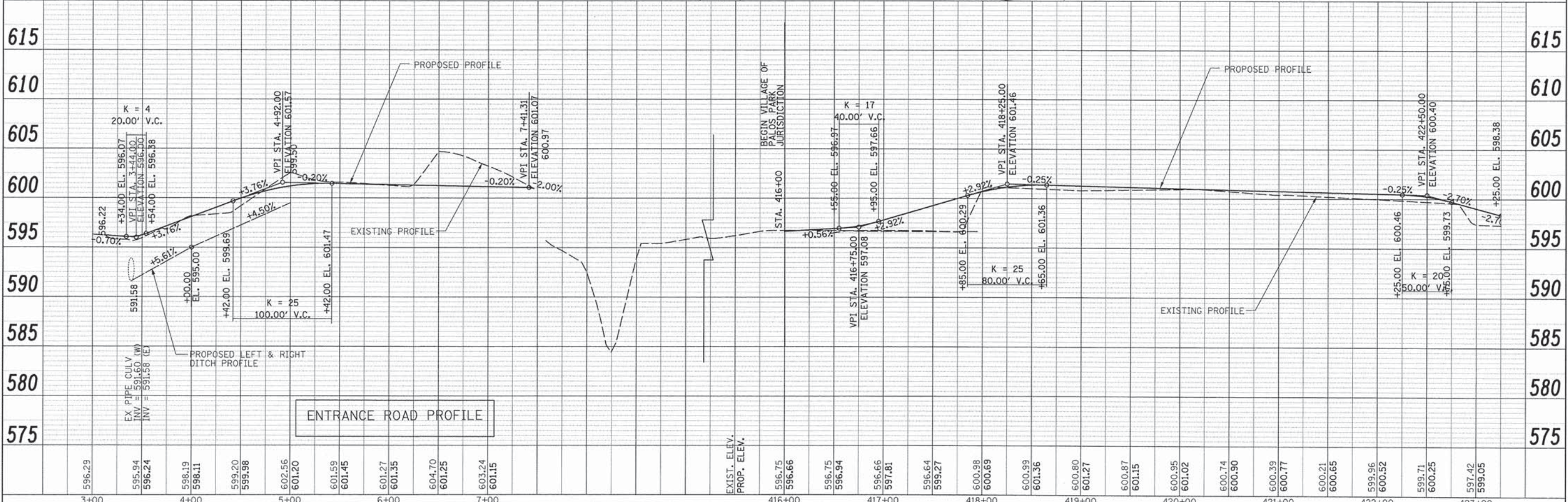
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FOREST PRESERVE DISTRICT OF COOK COUNTY

PROP. CURVE 091112-160 PI STA. = 416+16.56 $\Delta = 5^\circ 11' 17''$ (LT) $D = 4^\circ 46' 29''$ $R = 1,200.00'$ $T = 54.37'$ $L = 108.66'$ $E = 1.23'$ P.C. STA. = 415+62.19 P.T. STA. = 416+70.85	PROP. CURVE 091112-161 PI STA. = 422+42.56 $\Delta = 1^\circ 36' 24''$ (RT) $D = 11^\circ 27' 33''$ $R = 500.00'$ $T = 7.01'$ $L = 14.02'$ $E = 0.05'$ P.C. STA. = 422+35.55 P.T. STA. = 422+49.57	PROP. CURVE ENT-PARK-1 PI STA. = 5+18.49 $\Delta = 72^\circ 26' 29''$ (RT) $D = 114^\circ 35' 30''$ $R = 50.00'$ $T = 36.62'$ $L = 63.22'$ $E = 11.98'$ P.C. STA. = 4+81.86 P.T. STA. = 5+45.08
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PROP. CURVE ENT-PARK-2 PI STA. = 7+00.70 $\Delta = 82^\circ 07' 29''$ (LT) $D = 104^\circ 10' 27''$ $R = 55.00'$ $T = 47.92'$ $L = 78.83'$ $E = 17.94'$ P.C. STA. = 6+52.78 P.T. STA. = 7+31.61	BEGIN VILLAGE OF PALOS PARK JURISDICTION PROP. GATEWAY MONUMENT SIGN COMPLETE STA. 415+10.00, 10' RT
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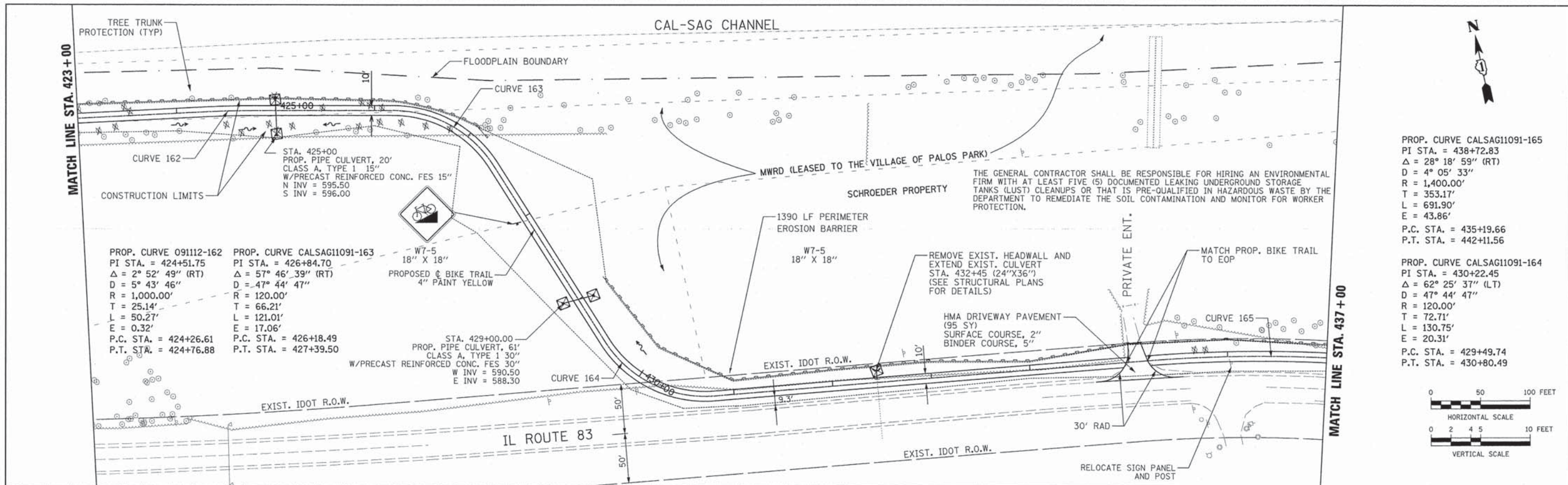


URS	USER NAME =	DESIGNED - MIA & AB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL (ALSIIP / PALOS PARK)		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN - MIA & AB	REVISED -		PLAN AND PROFILE		13-P4000-00-BT	COOK	109	14	
	PLOT DATE =	CHECKED - DDL	REVISED -		SCALE: H=50' V=5'		CONTRACT NO. 63834				
		DATE - 10/25/2013	REVISED -		SHEET NO. 1 OF 13 SHEETS		STA. 416+00 TO STA. 423+00				

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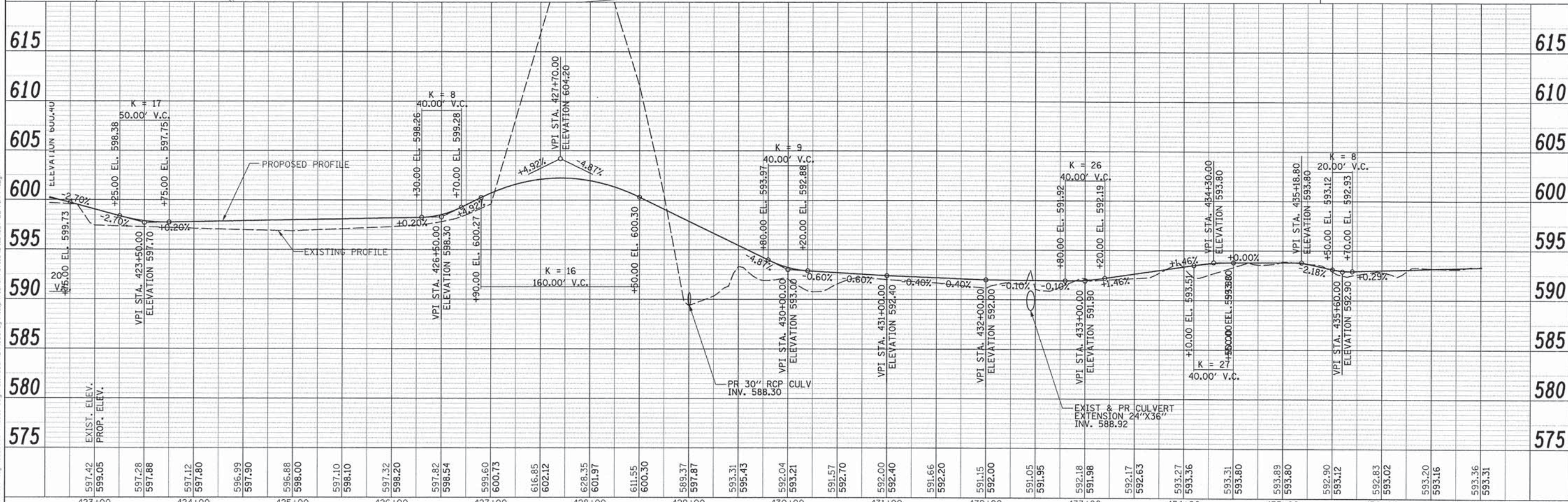
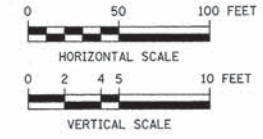
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PROP. CURVE CALSAG1091-165
 PI STA. = 438+72.83
 $\Delta = 28^\circ 18' 59''$ (RT)
 $D = 4^\circ 05' 33''$
 $R = 1,400.00'$
 $T = 353.17'$
 $L = 691.90'$
 $E = 43.86'$
 P.C. STA. = 435+19.66
 P.T. STA. = 442+11.56

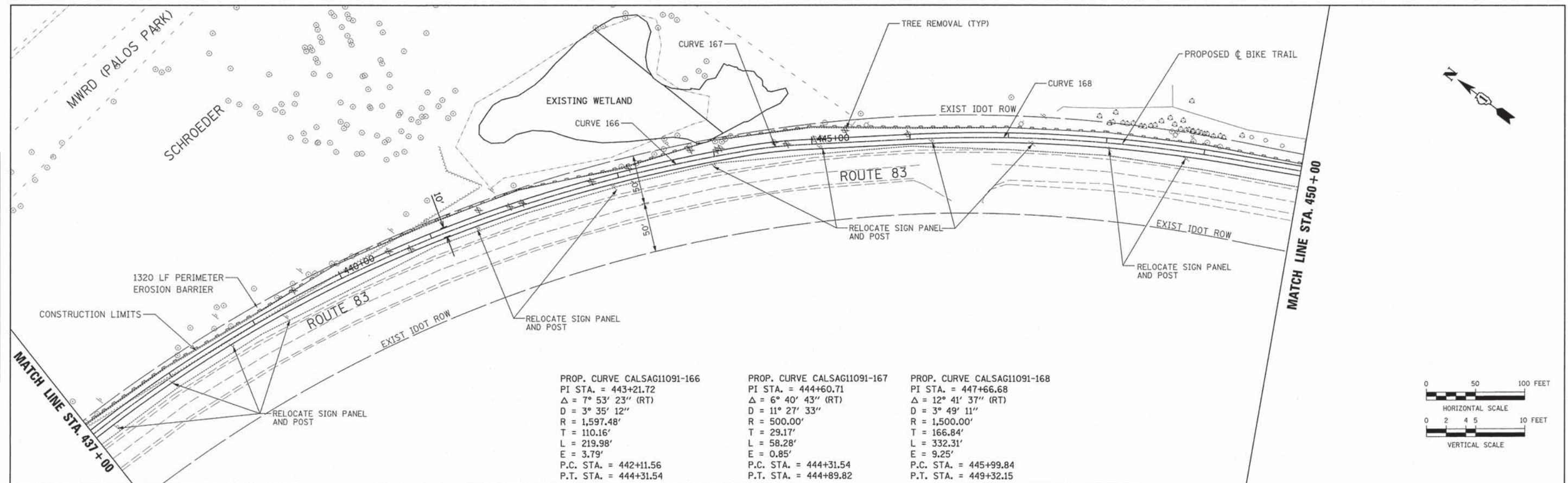
PROP. CURVE CALSAG1091-164
 PI STA. = 430+22.45
 $\Delta = 62^\circ 25' 37''$ (LT)
 $D = 47^\circ 44' 47''$
 $R = 120.00'$
 $T = 72.71'$
 $L = 130.75'$
 $E = 20.31'$
 P.C. STA. = 429+49.74
 P.T. STA. = 430+80.49



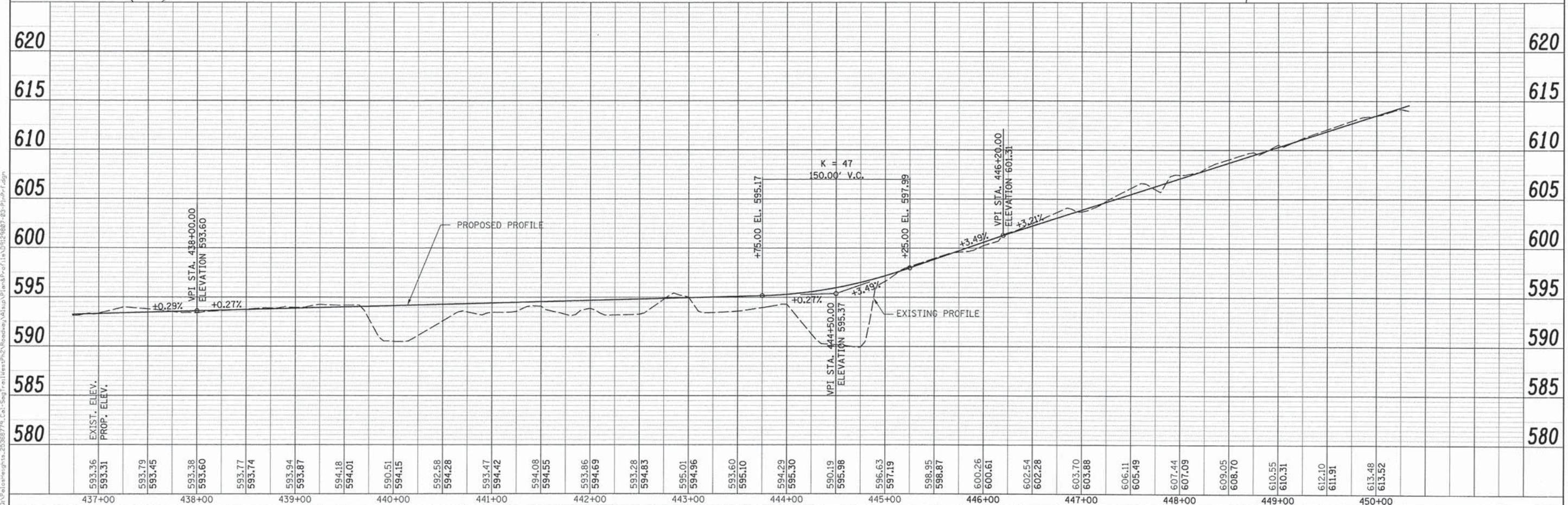
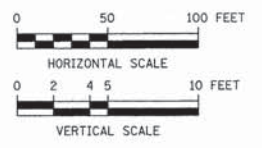
URS	USER NAME	DESIGNED - MIA & AB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK) PLAN AND PROFILE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE	DRAWN - MIA & AB	REVISED -			13-P4000-00-BT	COOK	109	15	
	PLOT DATE	CHECKED - DDL	REVISED -			CONTRACT NO. 63834	ILLINOIS FED. AID PROJECT			
	DATE - 10/25/2013	DATE -	REVISED -			SCALE: H=50' V=5' SHEET NO. 2 OF 13 SHEETS STA. 423+00 TO STA. 437+00				

DATE: _____ BY: _____
 REVIEWED: _____
 PLOTTED: _____
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 ALTERNATE CHECKED: _____
 STRUCTURE NO. / DATE: _____
 CAD FILE NAME: _____

DATE: _____ BY: _____
 REVIEWED: _____
 PLOTTED: _____
 NOTE BOOK: _____
 ALTERNATE CHECKED: _____
 STRUCTURE NO. / DATE: _____
 CAD FILE NAME: _____



PROP. CURVE CALSAG11091-166	PROP. CURVE CALSAG11091-167	PROP. CURVE CALSAG11091-168
PI STA. = 443+21.72	PI STA. = 444+60.71	PI STA. = 447+66.68
$\Delta = 7^\circ 53' 23''$ (RT)	$\Delta = 6^\circ 40' 43''$ (RT)	$\Delta = 12^\circ 41' 37''$ (RT)
D = 3° 35' 12"	D = 11° 27' 33"	D = 3° 49' 11"
R = 1,597.48'	R = 500.00'	R = 1,500.00'
T = 110.16'	T = 29.17'	T = 166.84'
L = 219.98'	L = 58.28'	L = 332.31'
E = 3.79'	E = 0.85'	E = 9.25'
P.C. STA. = 442+11.56	P.C. STA. = 444+31.54	P.C. STA. = 445+99.84
P.T. STA. = 444+31.54	P.T. STA. = 444+89.82	P.T. STA. = 449+32.15

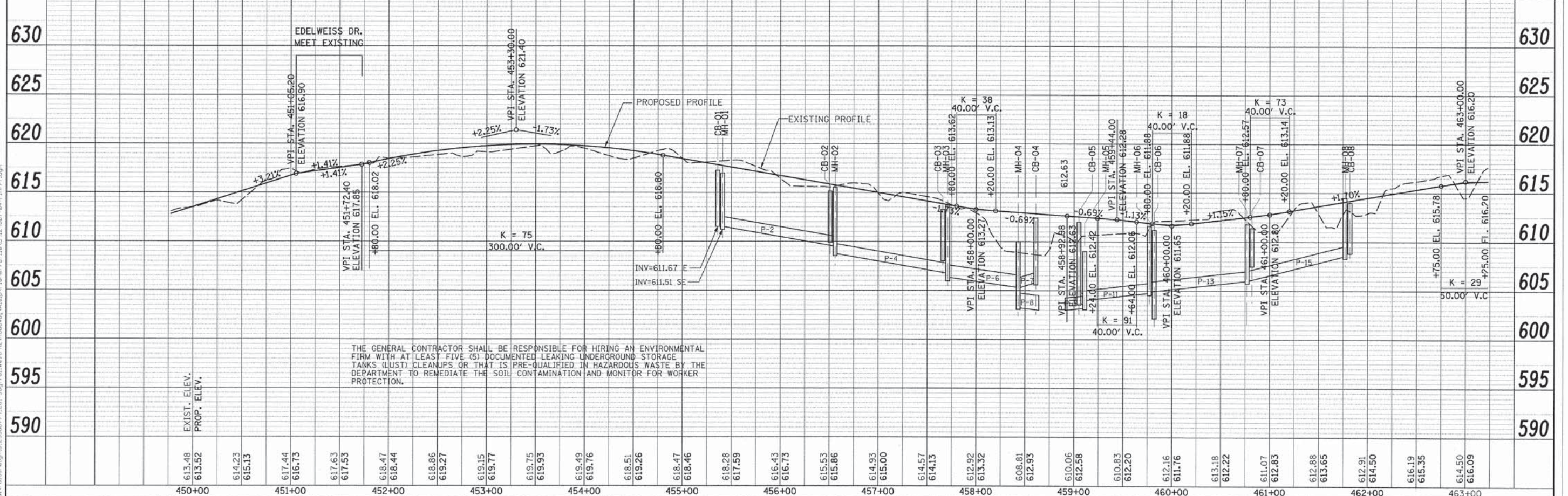
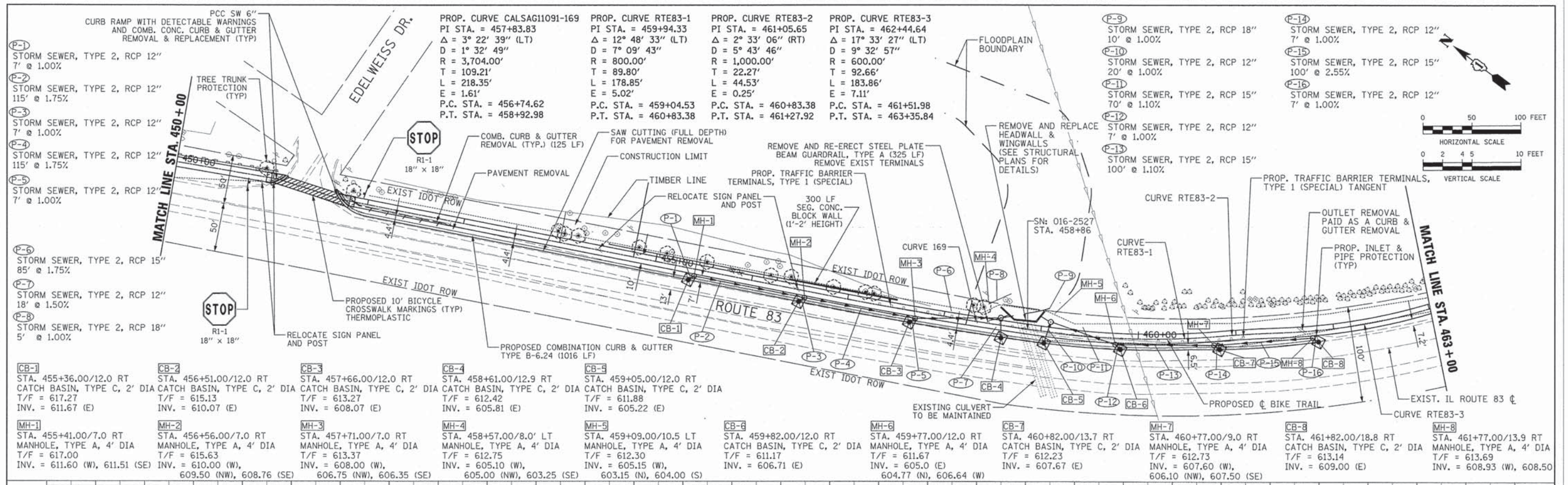


	USER NAME =	DESIGNED - MIA & AB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK) PLAN AND PROFILE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN - MIA & AB	REVISED -		SCALE: H=50' V=5'	SHEET NO. 3 OF 13 SHEETS	STA. 437+00 TO STA. 450+00	13-P4000-00-BT	COOK	109	16
	PLOT DATE =	CHECKED - DDL	REVISED -		CONTRACT NO. 63834						
		DATE - 10/25/2013	REVISED -								

FILE NAME: D:\Palos\highways\20388779_Cal-Sag\Trail\West\Pls\Roadway\A01.dwg; P:\proj\20388779-23-Palof.dwg

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 CHECKED: _____ BAL. NO. CHECKED: _____
 NOTE BOOK NO. _____ STRUCTURE NOTATION: _____
 FILE NAME: _____

DATE: _____ BY: _____
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 CHECKED: _____ BAL. NO. CHECKED: _____
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 FILE NAME: _____

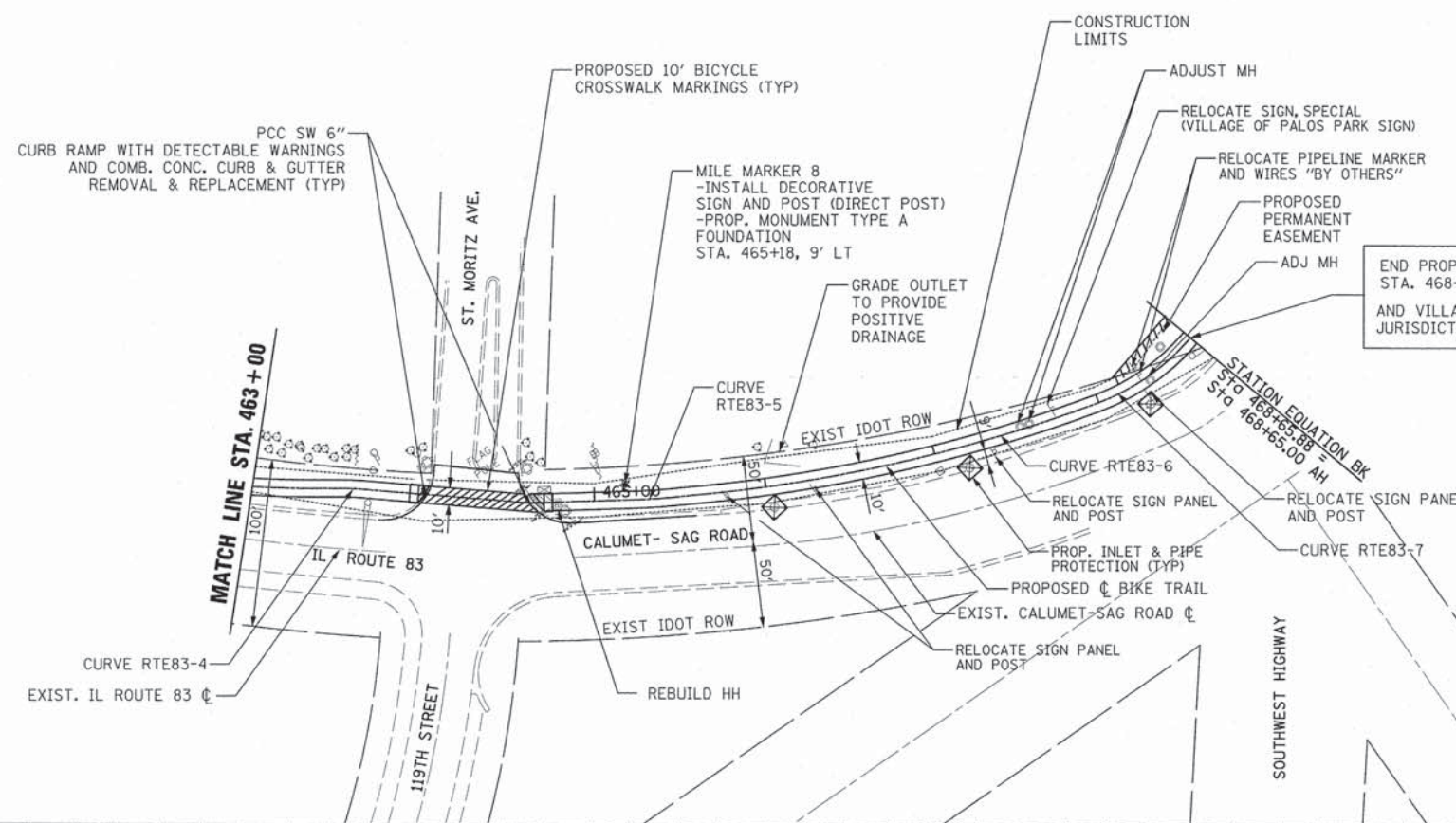


THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANKS (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.

URS	USER NAME =	DESIGNED - MIA & AB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK) PLAN AND PROFILE		F.A. RT. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE =	CHECKED - DDL	REVISED -		SCALE: H=50' V=5'			13-P4000-00-BT	COOK	109	17	
	PLOT DATE =	DATE - 10/25/2013	REVISED -		SHEET NO. 4 OF 13 SHEETS			CONTRACT NO. 63834				
					STA. 450+00 TO STA. 463+00			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

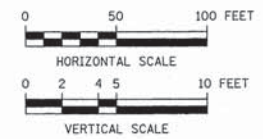


THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANKS (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.



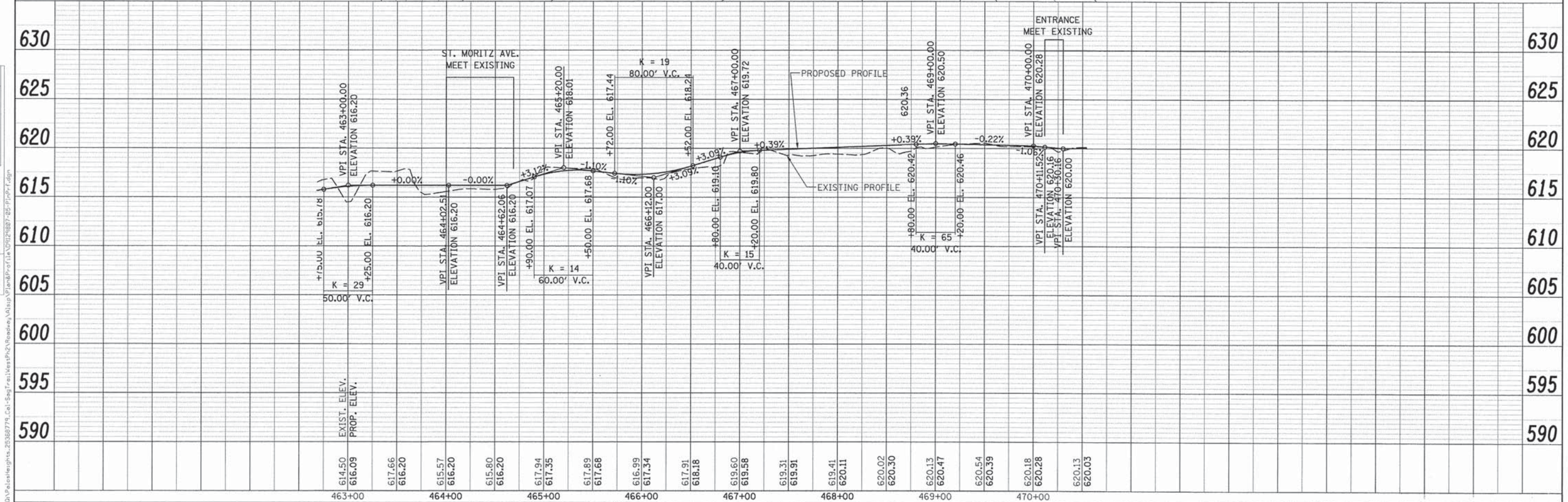
END PROPOSED SEGMENT 1 STA. 468+65.88 AND VILLAGE OF PALOS PARK JURISDICTION

<p>PROP. CURVE RTE83-4 PI STA. = 463+59.38 $\Delta = 4^\circ 43' 01''$ (RT) D = 38' 11' 50" R = 150.00' T = 6.18' L = 12.35' E = 0.13' P.C. STA. = 463+53.20 P.T. STA. = 463+65.55</p>	<p>PROP. CURVE RTE83-5 PI STA. = 465+34.13 $\Delta = 3^\circ 46' 14''$ (LT) D = 19' 05' 55" R = 300.00' T = 9.88' L = 19.74' E = 0.16' P.C. STA. = 465+24.25 P.T. STA. = 465+43.99</p>
<p>PROP. CURVE RTE83-6 PI STA. = 466+81.68 $\Delta = 14^\circ 59' 20''$ (LT) D = 6' 19' 59" R = 904.73' T = 119.02' L = 236.68' E = 7.80' P.C. STA. = 465+62.66 P.T. STA. = 467+99.34</p>	<p>PROP. CURVE RTE83-7 PI STA. = 468+84.39 $\Delta = 66^\circ 23' 07''$ (LT) D = 44' 04' 25" R = 130.00' T = 85.05' L = 150.62' E = 25.35' P.C. STA. = 467+99.34 P.T. STA. = 469+49.96</p>



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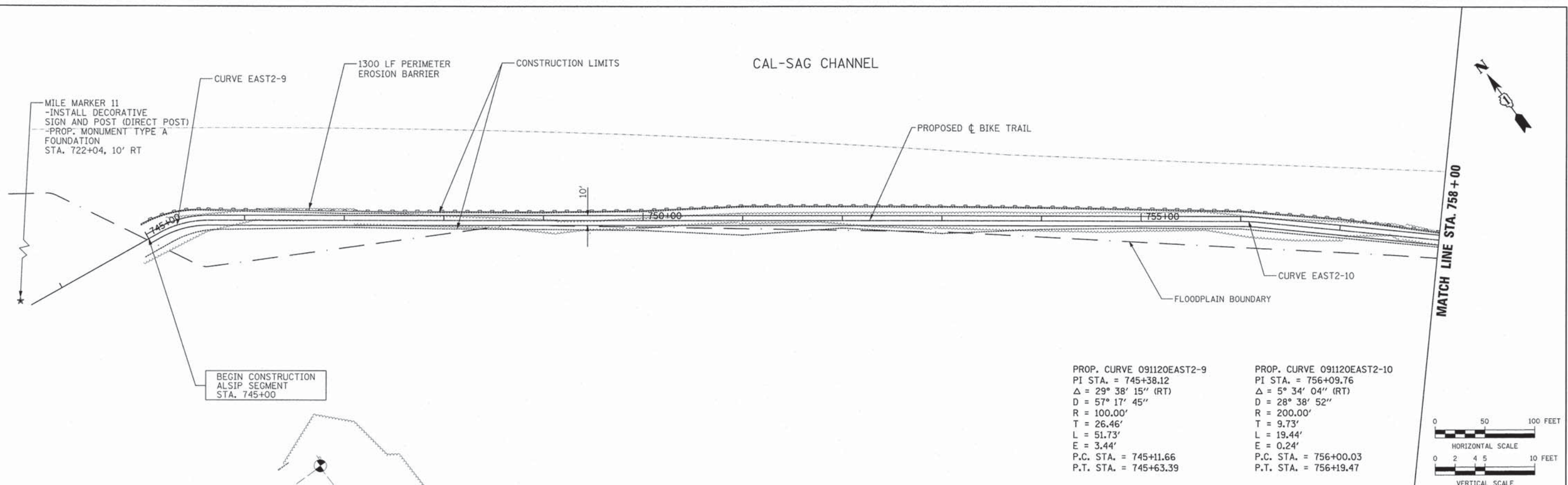


<p>URS</p>			<p>USER NAME =</p>			<p>DESIGNED - MIA & AB</p>	<p>REVISED -</p>	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)</p>				<p>F.A. SECTION COUNTY TOTAL SHEETS SHEET NO. 13-P4000-00-BT COOK 109 18 CONTRACT NO. 63834</p>
<p>DESIGNED - MIA & AB</p>			<p>DRAWN - MIA & AB</p>			<p>REVISED -</p>	<p>SCALE: H=50' V=5' SHEET NO. 5 OF 13 SHEETS STA. 463+00 TO STA. 470+50</p>		<p>ILLINOIS FED. AID PROJECT</p>				
<p>CHECKED - DDL</p>			<p>DATE - 10/25/2013</p>			<p>REVISED -</p>							
<p>DATE - 10/25/2013</p>			<p>REVISED -</p>										
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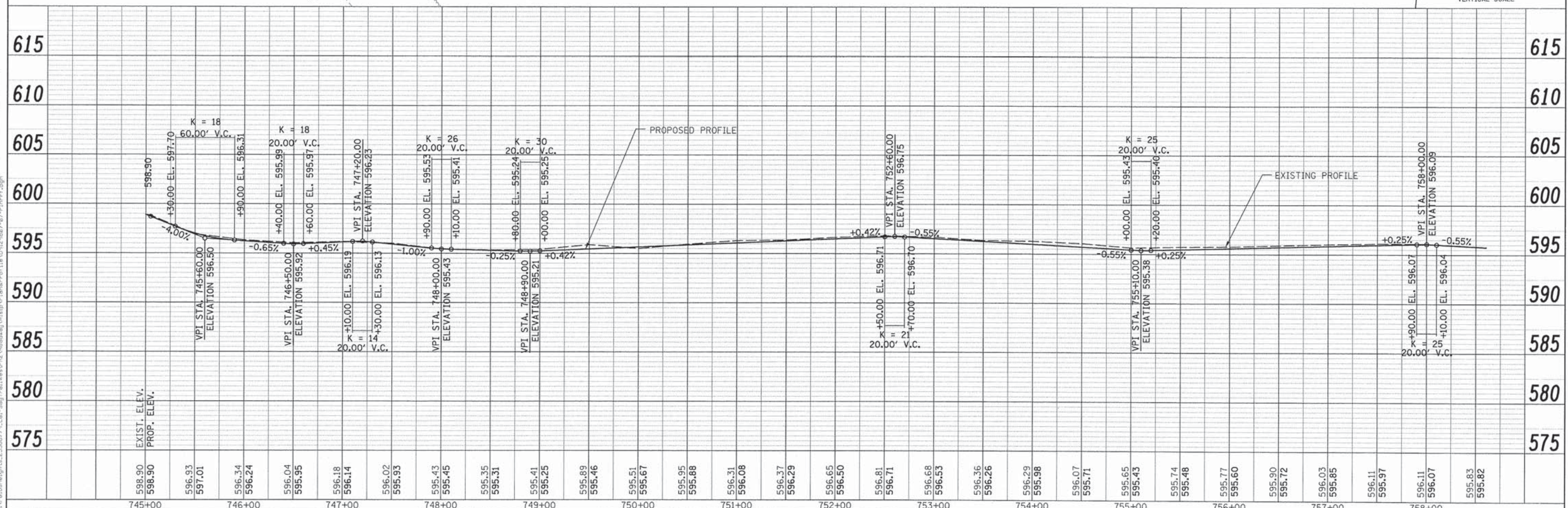
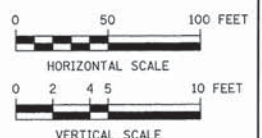
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FILE NAME: D:\p\alsip\highlights_25368779_Cal-Sag\T-01\New2\Roadway\Alsip\Profile\Profile.dgn



PROP. CURVE 091120EAST2-9 PI STA. = 745+38.12 $\Delta = 29^\circ 38' 15''$ (RT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 26.46'$ $L = 51.73'$ $E = 3.44'$ P.C. STA. = 745+11.66 P.T. STA. = 745+63.39	PROP. CURVE 091120EAST2-10 PI STA. = 756+09.76 $\Delta = 5^\circ 34' 04''$ (RT) $D = 28^\circ 38' 52''$ $R = 200.00'$ $T = 9.73'$ $L = 19.44'$ $E = 0.24'$ P.C. STA. = 756+00.03 P.T. STA. = 756+19.47
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USER NAME	DESIGNED - MIA & AB	REVISED -
PLOT SCALE	DRAWN - MIA & AB	REVISED -
PLOT DATE	CHECKED - DDL	REVISED -
	DATE - 10/25/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
PLAN AND PROFILE

SCALE: H=50' V=5' SHEET NO. 7 OF 13 SHEETS STA. 745+00 TO STA. 758+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-P4000-00-BT	COOK	109	19
CONTRACT NO. 63834				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PLAN	DATE
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PROFILE	DATE
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FILE NAME: D:\Projects\heights_25368779_Cal-Sag Trail\WSP\2\Roadway\03\Plan\Profile\13-P4000-00-BT-Profile.dgn

PROP. CURVE 091120EAST2-13
 PI STA. = 767+81.78
 $\Delta = 4^\circ 12' 25''$ (LT)
 $D = 14^\circ 19' 26''$
 $R = 400.00'$
 $T = 14.69'$
 $L = 29.37'$
 $E = 0.27'$
 P.C. STA. = 767+67.09
 P.T. STA. = 767+96.46

PROP. CURVE 091120EAST2-14
 PI STA. = 771+06.93
 $\Delta = 1^\circ 17' 15''$ (RT)
 $D = 7^\circ 09' 43''$
 $R = 800.00'$
 $T = 8.99'$
 $L = 17.98'$
 $E = 0.05'$
 P.C. STA. = 770+97.94
 P.T. STA. = 771+15.92

1300 LF PERIMETER
 EROSION BARRIER

CAL-SAG CHANNEL

PROPOSED ϕ BIKE TRAIL

FLOODPLAIN BOUNDARY

CONSTRUCTION LIMITS

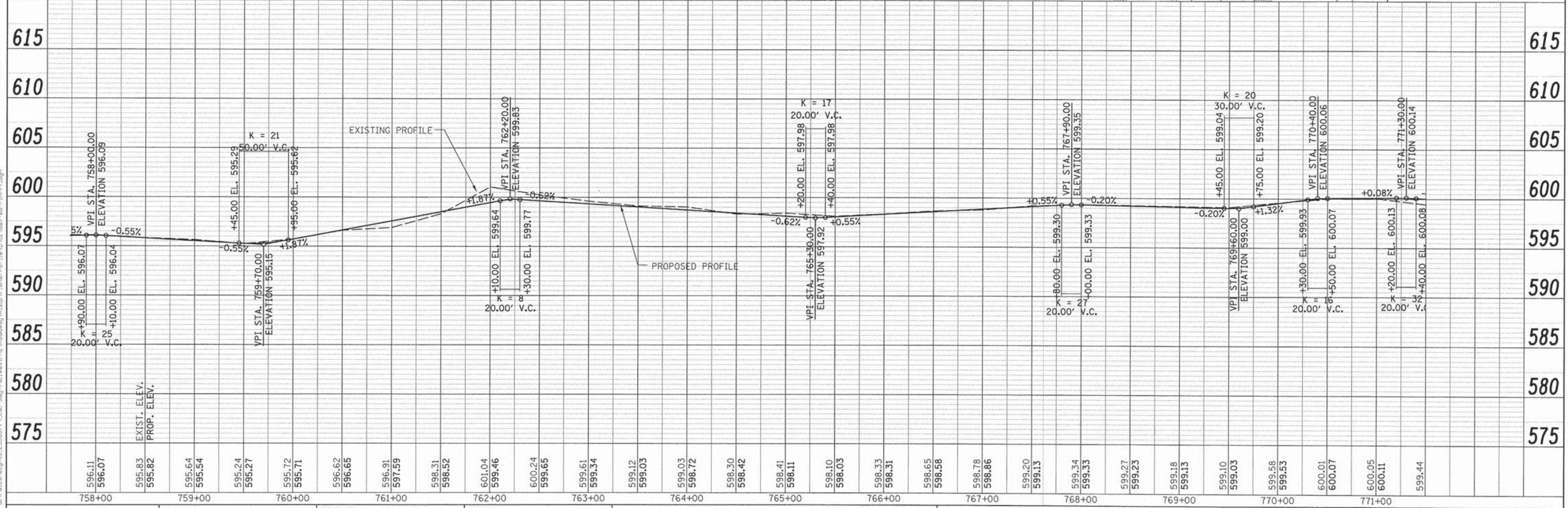
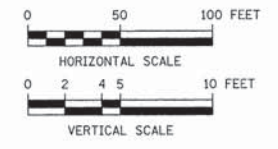
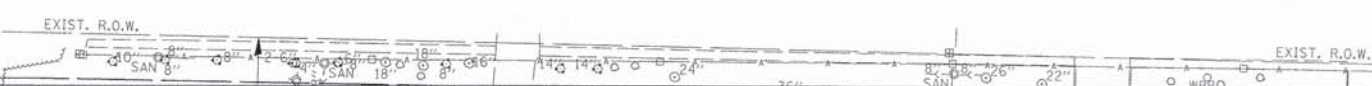
MWRD
 (LEASED TO ALSIP PARK DISTRICT)

MATCH LINE STA. 758+00

MATCH LINE STA. 771+00

PROP. CURVE 091120EAST2-11
 PI STA. = 762+13.70
 $\Delta = 12^\circ 50' 44''$ (LT)
 $D = 28^\circ 38' 52''$
 $R = 200.00'$
 $T = 22.51'$
 $L = 44.84'$
 $E = 1.26'$
 P.C. STA. = 761+91.19
 P.T. STA. = 762+36.03

PROP. CURVE 091120EAST2-12
 PI STA. = 764+26.77
 $\Delta = 11^\circ 09' 55''$ (RT)
 $D = 28^\circ 38' 52''$
 $R = 200.00'$
 $T = 19.55'$
 $L = 38.97'$
 $E = 0.95'$
 P.C. STA. = 764+07.22
 P.T. STA. = 764+46.19



USER NAME =	DESIGNED - MIA & AB	REVISED -
PLOT SCALE =	DRAWN - MIA & AB	REVISED -
PLOT DATE =	CHECKED - DDL	REVISED -
	DATE - 10/25/2013	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

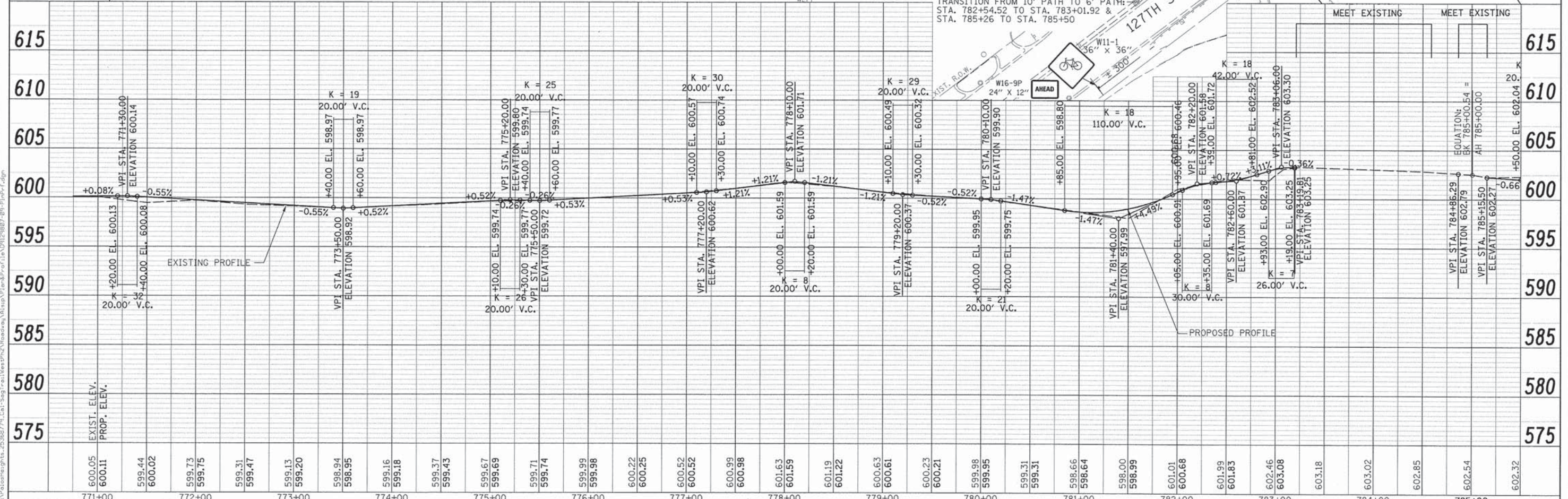
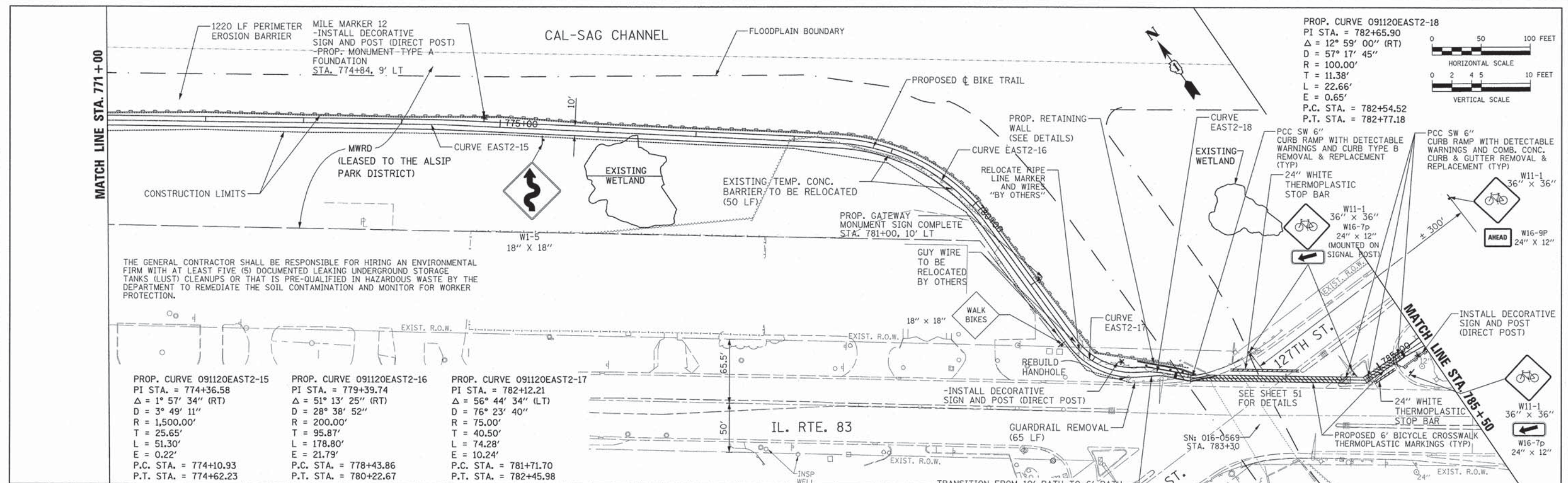
CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
 PLAN AND PROFILE

SCALE: H=50' V=5' SHEET NO. 8 OF 13 SHEETS STA. 758+00 TO STA. 771+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-P4000-00-BT	COOK	109	20
CONTRACT NO. 63834				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

PLAN	REVISIONS	DATE
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PROFILE	REVISIONS	DATE
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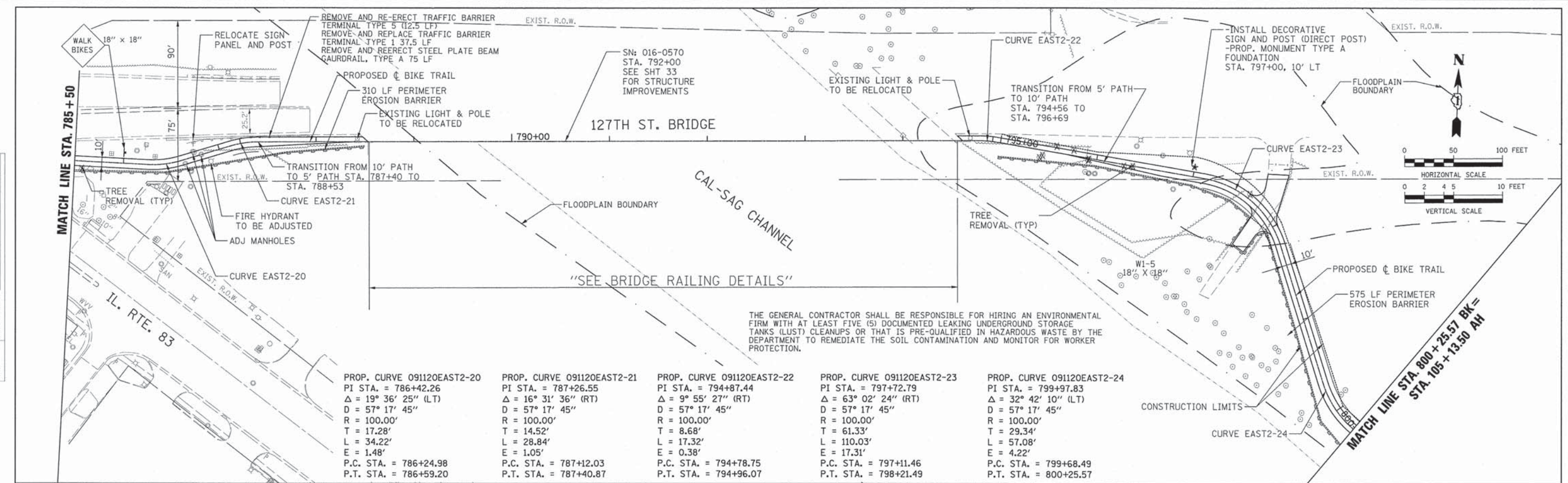


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	PLOT SCALE =	DRAWN - MIA & AB	REVISED -
	PLOT DATE =	CHECKED - DDL	REVISED -
		DATE - 10/25/2013	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK) PLAN AND PROFILE	
SCALE: H=50' V=5'	SHEET NO. 9 OF 13 SHEETS	STA. 771+00 TO STA. 785+50	F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 13-P4000-00-BT COOK 109 21
CONTRACT NO. 63834			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

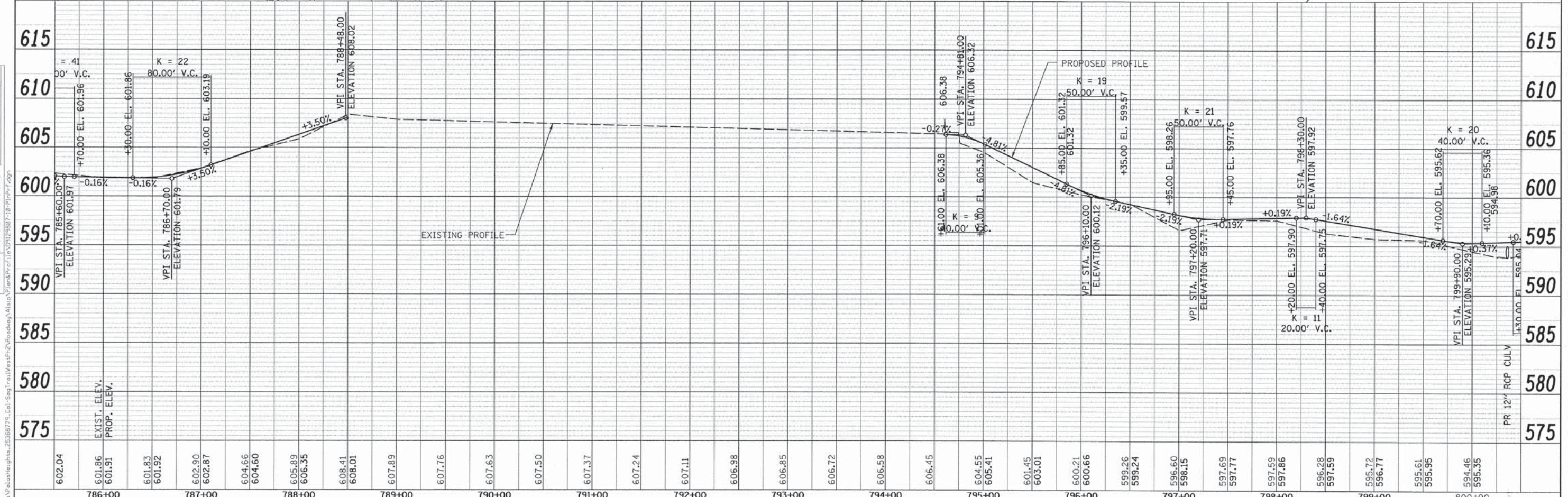
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PROFILE	DATE
NO.	BY
NO.	BY
NO.	BY



PROP. CURVE 091120EAST2-20 PI STA. = 786+42.26 $\Delta = 19^\circ 36' 25''$ (LT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 17.28'$ $L = 34.22'$ $E = 1.48'$ P.C. STA. = 786+24.98 P.T. STA. = 786+59.20	PROP. CURVE 091120EAST2-21 PI STA. = 787+26.55 $\Delta = 16^\circ 31' 36''$ (RT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 14.52'$ $L = 28.84'$ $E = 1.05'$ P.C. STA. = 787+12.03 P.T. STA. = 787+40.87	PROP. CURVE 091120EAST2-22 PI STA. = 794+87.44 $\Delta = 9^\circ 55' 27''$ (RT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 8.68'$ $L = 17.32'$ $E = 0.38'$ P.C. STA. = 794+78.75 P.T. STA. = 794+96.07	PROP. CURVE 091120EAST2-23 PI STA. = 797+72.79 $\Delta = 63^\circ 02' 24''$ (RT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 61.33'$ $L = 110.03'$ $E = 17.31'$ P.C. STA. = 797+11.46 P.T. STA. = 798+21.49	PROP. CURVE 091120EAST2-24 PI STA. = 799+97.83 $\Delta = 32^\circ 42' 10''$ (LT) $D = 57^\circ 17' 45''$ $R = 100.00'$ $T = 29.34'$ $L = 57.08'$ $E = 4.22'$ P.C. STA. = 799+68.49 P.T. STA. = 800+25.57
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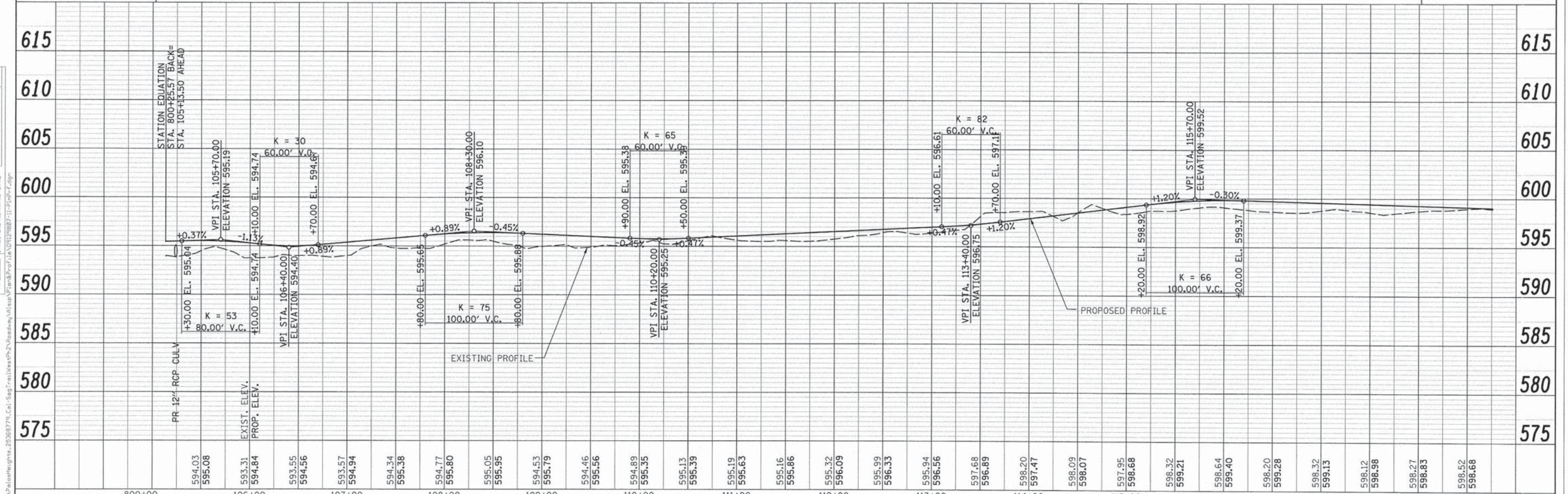
THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING AN ENVIRONMENTAL FIRM WITH AT LEAST FIVE (5) DOCUMENTED LEAKING UNDERGROUND STORAGE TANKS (LUST) CLEANUPS OR THAT IS PRE-QUALIFIED IN HAZARDOUS WASTE BY THE DEPARTMENT TO REMEDIATE THE SOIL CONTAMINATION AND MONITOR FOR WORKER PROTECTION.



URS USER NAME = PLOT SCALE = PLOT DATE =	DESIGNED - MIA & AB DRAWN - MIA & AB CHECKED - DDL DATE - 10/25/2013	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK) PLAN AND PROFILE	F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 13-P4000-00-BT COOK 109 22	
	SCALE: H=50' V=5' SHEET NO. 10 OF 13 SHEETS STA. 785+50 TO STA. 800+25.57				CONTRACT NO. 63834	
					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
					PR 12' RCP CULV	

PLAN	SURVEYED	DATE
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	REVISIONS	
	NO. OF DAYS CHECKED	
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PROFILE	SURVEYED	DATE
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	CHECKED	
	REVISIONS	
	NO. OF DAYS CHECKED	
	CADD FILE NAME	
	NO.	



PROP. CURVE 091120EAST3-1
 PI STA. = 107+85.87
 $\Delta = 4^\circ 23' 05''$ (LT)
 D = 4° 46' 29"
 R = 1,200.00'
 T = 45.94'
 L = 91.84'
 E = 0.88'
 P.C. STA. = 107+39.93
 P.T. STA. = 108+31.77

PROP. CURVE 091120EAST3-2
 PI STA. = 109+77.33
 $\Delta = 6^\circ 31' 43''$ (RT)
 D = 4° 24' 27"
 R = 1,300.00'
 T = 74.15'
 L = 148.13'
 E = 2.11'
 P.C. STA. = 109+03.19
 P.T. STA. = 110+51.32

PROP. CURVE 091120EAST3-3
 PI STA. = 111+11.35
 $\Delta = 5^\circ 43' 40''$ (LT)
 D = 4° 46' 29"
 R = 1,200.00'
 T = 60.03'
 L = 119.96'
 E = 1.50'
 P.C. STA. = 110+51.32
 P.T. STA. = 111+71.28

PROP. CURVE 091120EAST3-4
 PI STA. = 112+61.06
 $\Delta = 2^\circ 41' 49''$ (RT)
 D = 3° 34' 52"
 R = 1,600.00'
 T = 37.66'
 L = 75.31'
 E = 0.44'
 P.C. STA. = 112+23.39
 P.T. STA. = 112+98.70

PROP. CURVE 091120EAST3-5
 PI STA. = 117+48.09
 $\Delta = 2^\circ 50' 35''$ (LT)
 D = 3° 34' 52"
 R = 1,600.00'
 T = 39.70'
 L = 79.39'
 E = 0.49'
 P.C. STA. = 117+08.38
 P.T. STA. = 117+87.77

MATCH LINE STA. 800 + 25.57 BK =
 STA. 105 + 13.50 AH

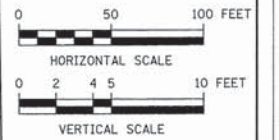
STATION EQUATION:
 STA. 800+25.57 BACK=
 STA. 105+13.50 AHEAD

STA. 105+25.00
 PROP. PIPE CULVERT, 30'
 CLASS A, TYPE I 15"
 W/PRECAST REINFORCED
 CONC. FES 15"
 N INV=594.00
 S INV=593.50

STA. 110+00.00
 PROP. PIPE CULVERT, 44'
 CLASS A, TYPE I 15"
 W/PRECAST REINFORCED
 CONC. FES 15"
 N INV=593.20
 S INV=592.70

CONSTRUCTION LIMITS

MATCH LINE STA. 118 + 00



USER NAME =	DESIGNED - MIA & AB	REVISED -
	DRAWN - MIA & AB	REVISED -
PLOT SCALE =	CHECKED - DDL	REVISED -
PLOT DATE =	DATE - 10/25/2013	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
 PLAN AND PROFILE

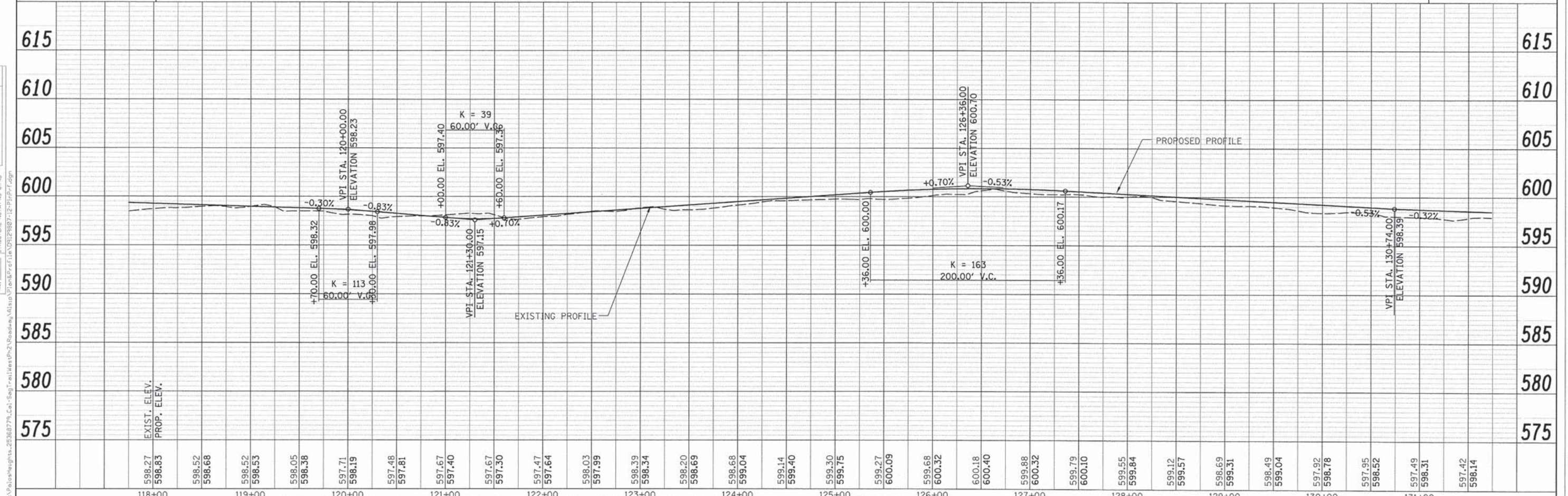
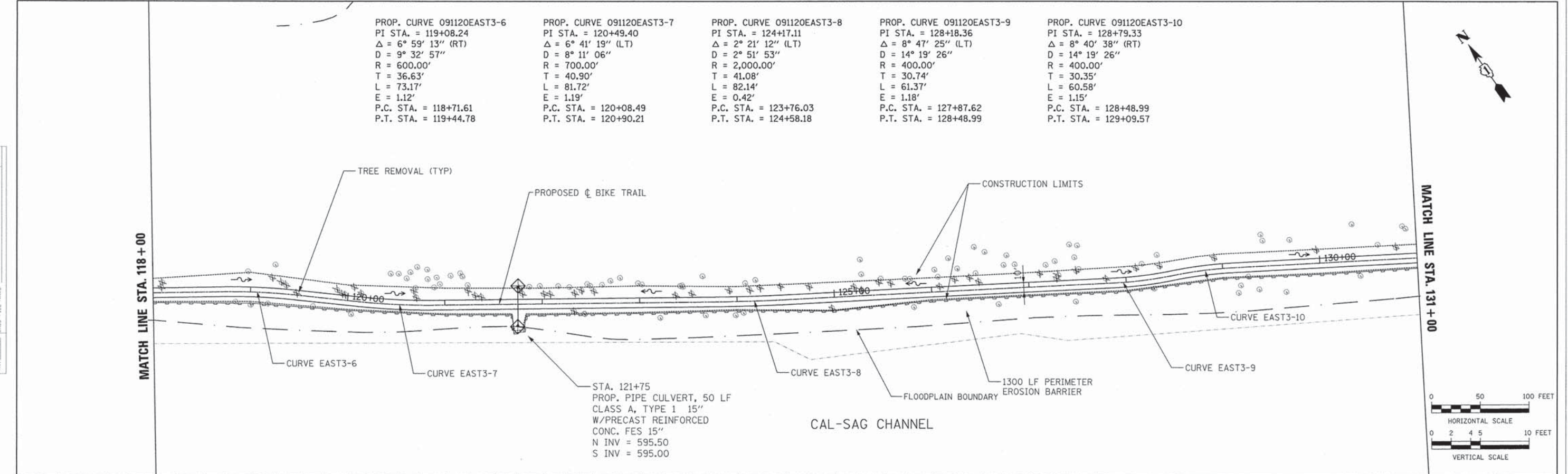
SCALE: H=50' V=5' SHEET NO. 11 OF 13 SHEETS STA. 105+13.50 TO STA. 118+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-P4000-00-BT	COOK	109	23
CONTRACT NO. 63834		ILLINOIS FED. AID PROJECT		

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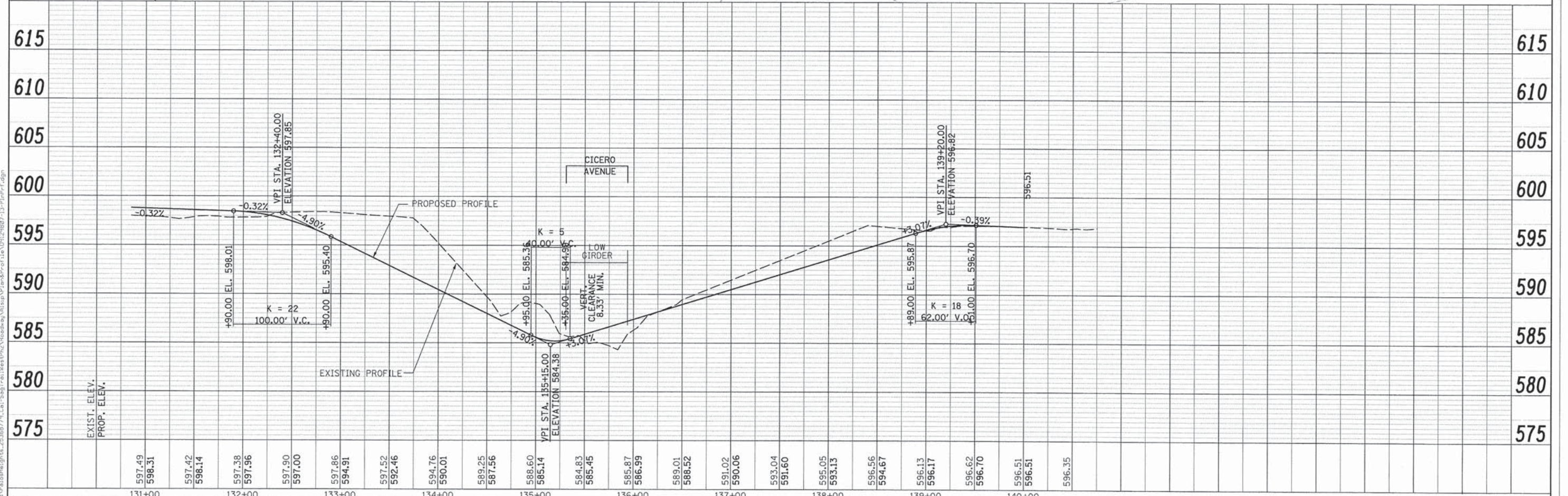
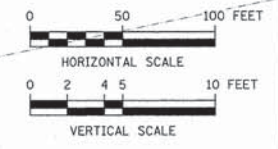
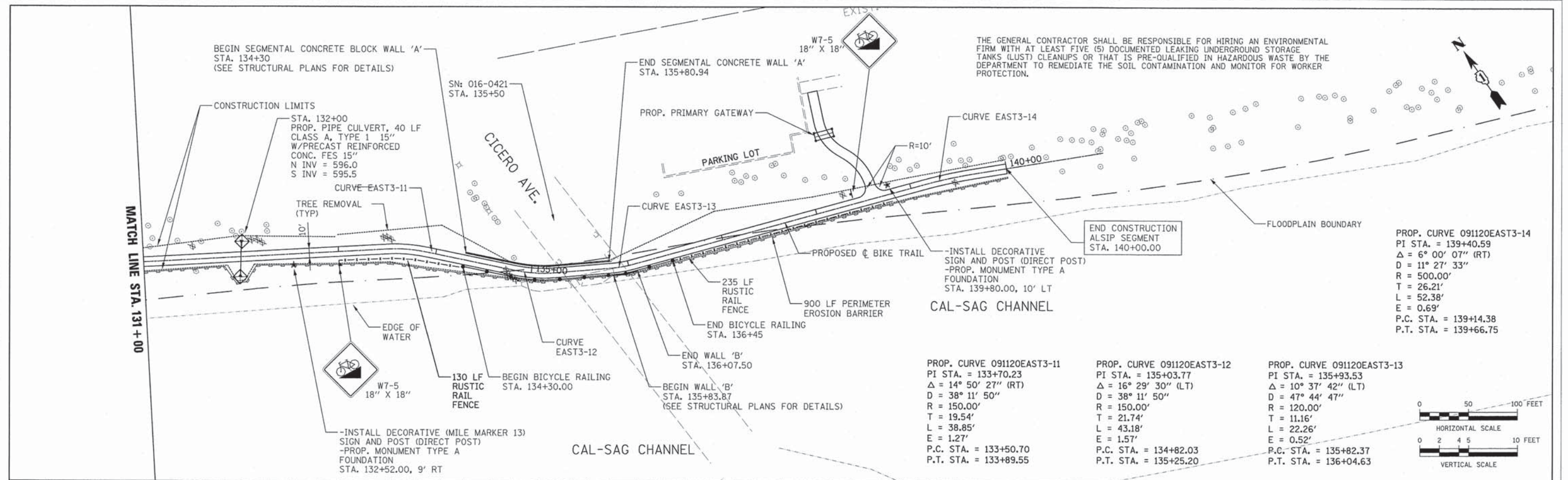
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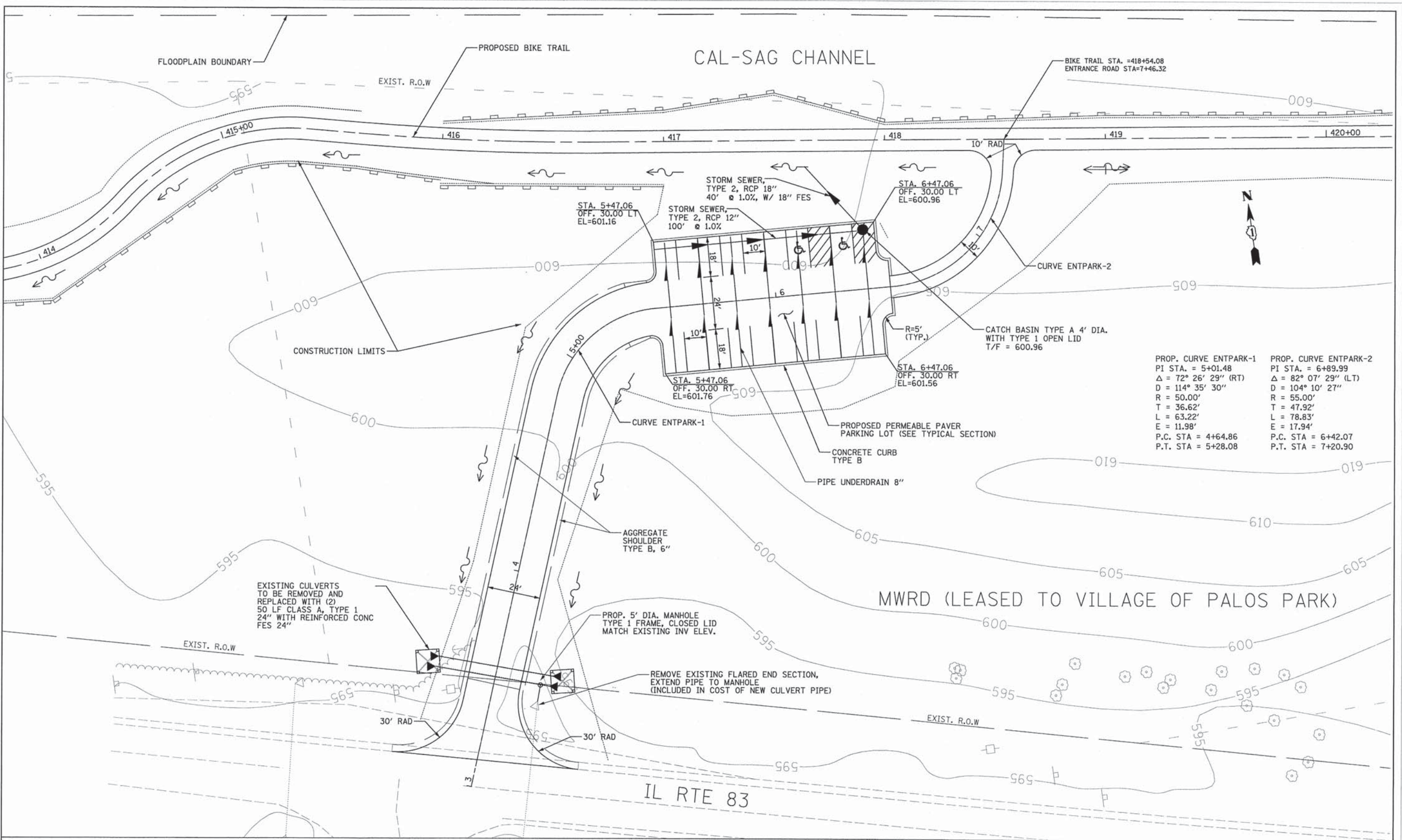
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	PLOT SCALE =	CHECKED - DDL	REVISED -			13-P4000-00-BT	COOK	109	24	
	PLOT DATE =	DATE - 10/25/2013	REVISED -			CONTRACT NO. 63834	ILLINOIS FED. AID PROJECT			
						SCALE: H=50' V=5'	SHEET NO. 12 OF 13 SHEETS	STA. 118+00 TO STA. 131+00		

PLAN	DATE
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URS	USER NAME =	DESIGNED - MIA & AB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK) PLAN AND PROFILE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - DDL	REVISED -			13-P4000-00-BT	COOK	109	25	
	PLOT DATE =	DATE - 10/25/2013	REVISED -	SCALE: H=50' V=5'	SHEET NO. 13 OF 13 SHEETS	STA. 131+00	TO STA. 137+89.55	CONTRACT NO. 63834 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



PROP. CURVE ENTPARK-1	PROP. CURVE ENTPARK-2
PI STA. = 5+01.48	PI STA. = 6+89.99
$\Delta = 72^\circ 26' 29''$ (RT)	$\Delta = 82^\circ 07' 29''$ (LT)
D = 114' 35' 30"	D = 104' 10' 27"
R = 50.00'	R = 55.00'
T = 36.62'	T = 47.92'
L = 63.22'	L = 78.83'
E = 11.98'	E = 17.94'
P.C. STA = 4+64.86	P.C. STA = 6+42.07
P.T. STA = 5+28.08	P.T. STA = 7+20.90



FILE NAME: D:\Palos Heights\25368774_Cal-Sag\Trail\WestSide\Bassano_Village_Parking_Lot.dgn



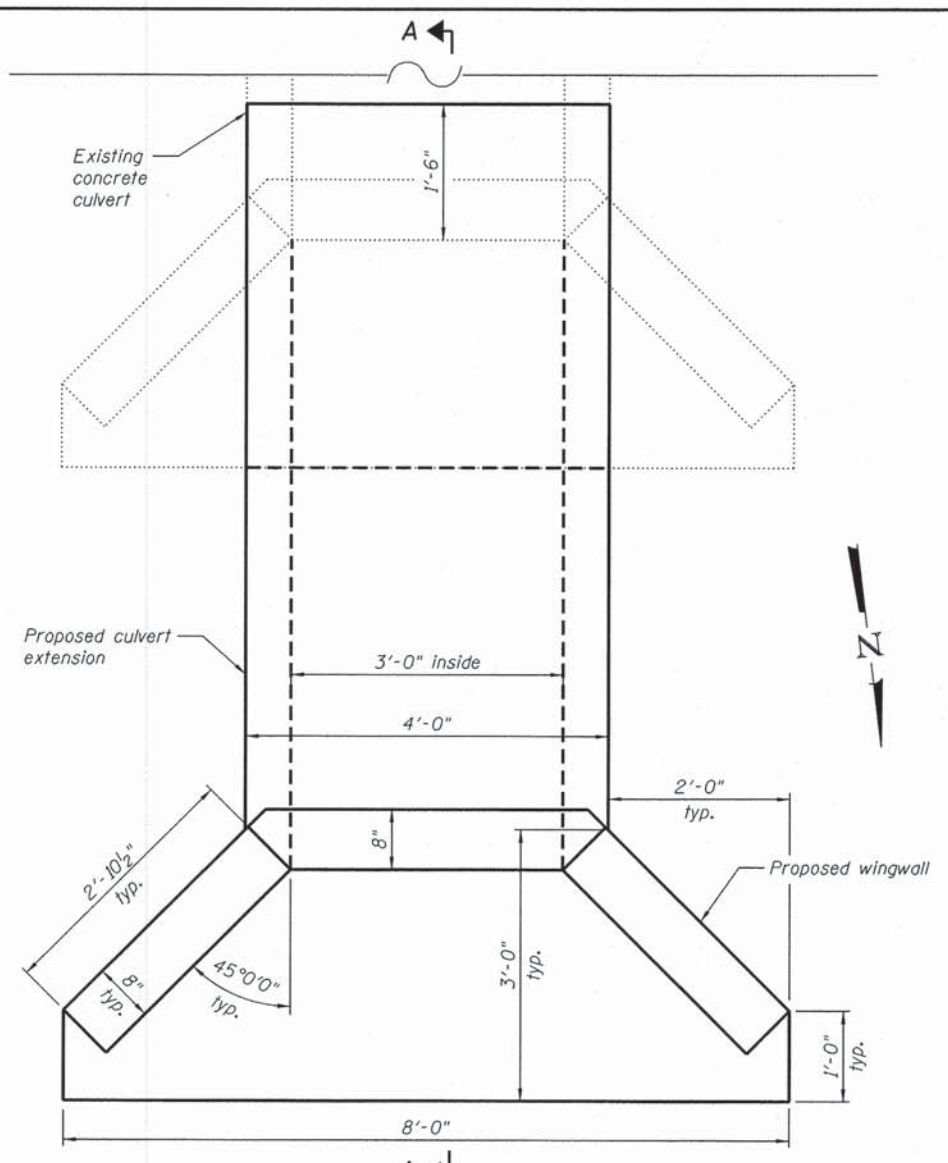
USER NAME: David.Lordewiser	DESIGNED: MIA & AB	REVISED:
PLOT SCALE: 20.0000' / IN.	DRAWN: MIA & AB	REVISED:
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

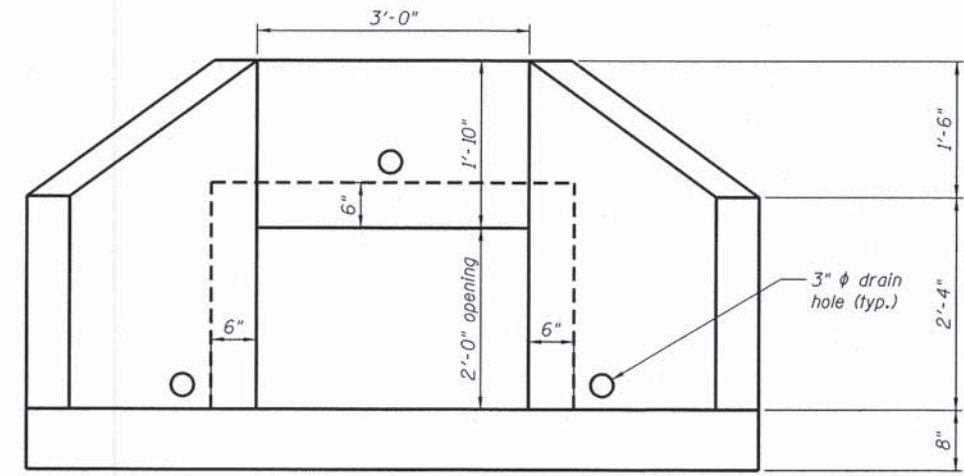
**CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
PROPOSED PARKING LOT SITE PLAN**

SCALE: 1" = 20' ft SHEET NO. 6 OF 13 SHEETS STA. TO STA.

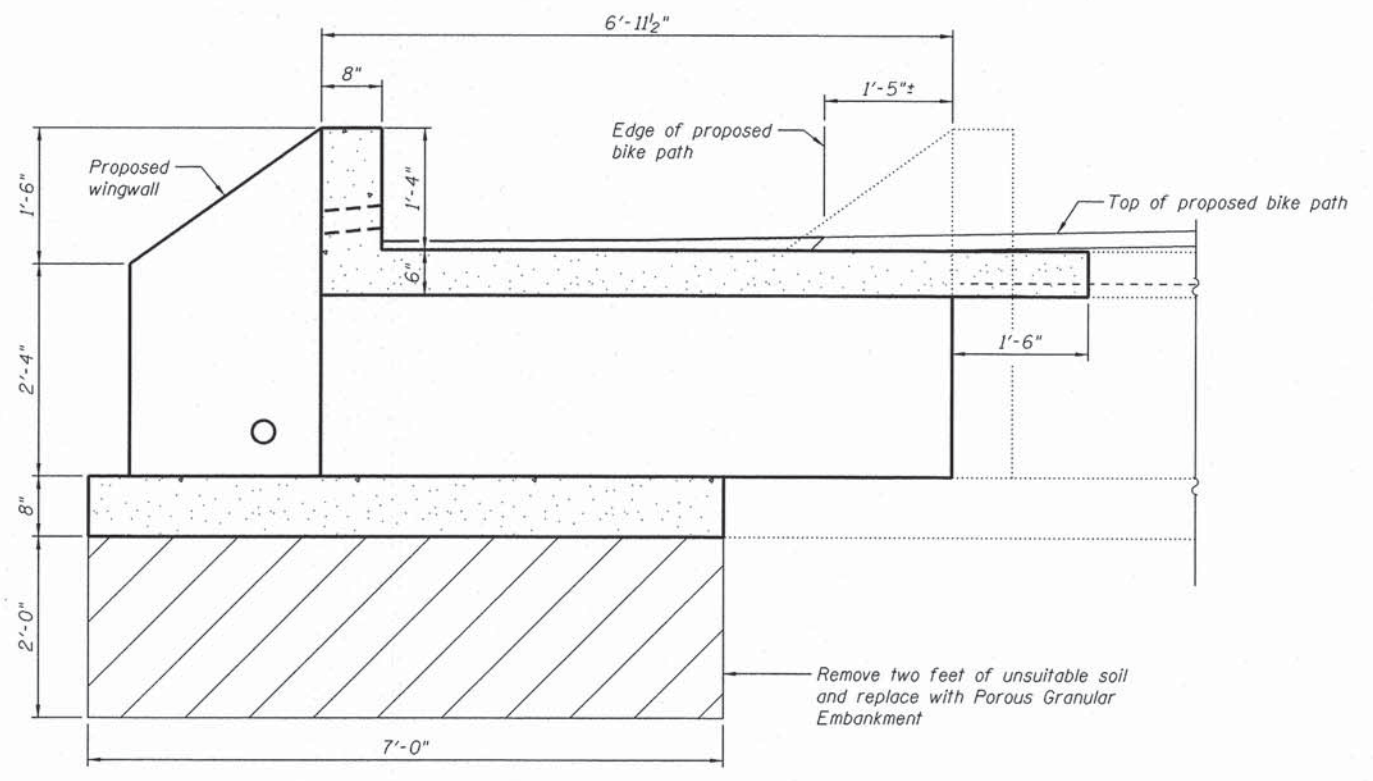
F.A.P. RTE.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
XX	13-P4000-00-BT	COOK	109	26
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63834	



PLAN



ELEVATION
(Looking South)



SECTION A-A



"I certify that to the best of my knowledge and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current AASHTO LRFD Specifications for Highway Bridges"

Michael A. Delemont 10/29/2013
 MICHAEL A. DELEMONT DATE
 LICENSED STRUCTURAL ENGINEER
 STATE OF ILLINOIS No. 081-006701
 EXPIRES: NOVEMBER 30, 2014

INDEX OF SHEETS

- 1 Proposed Concrete
- 2 Concrete Removal
- 3 Reinforcing Steel

NOTES:

- 1. Culvert to be extended 7'-0" with geometry similar to existing.
- 2. Verify all dimensions in the field prior to construction.
- 3. See Sheet 2 of 3 for existing concrete removal details.



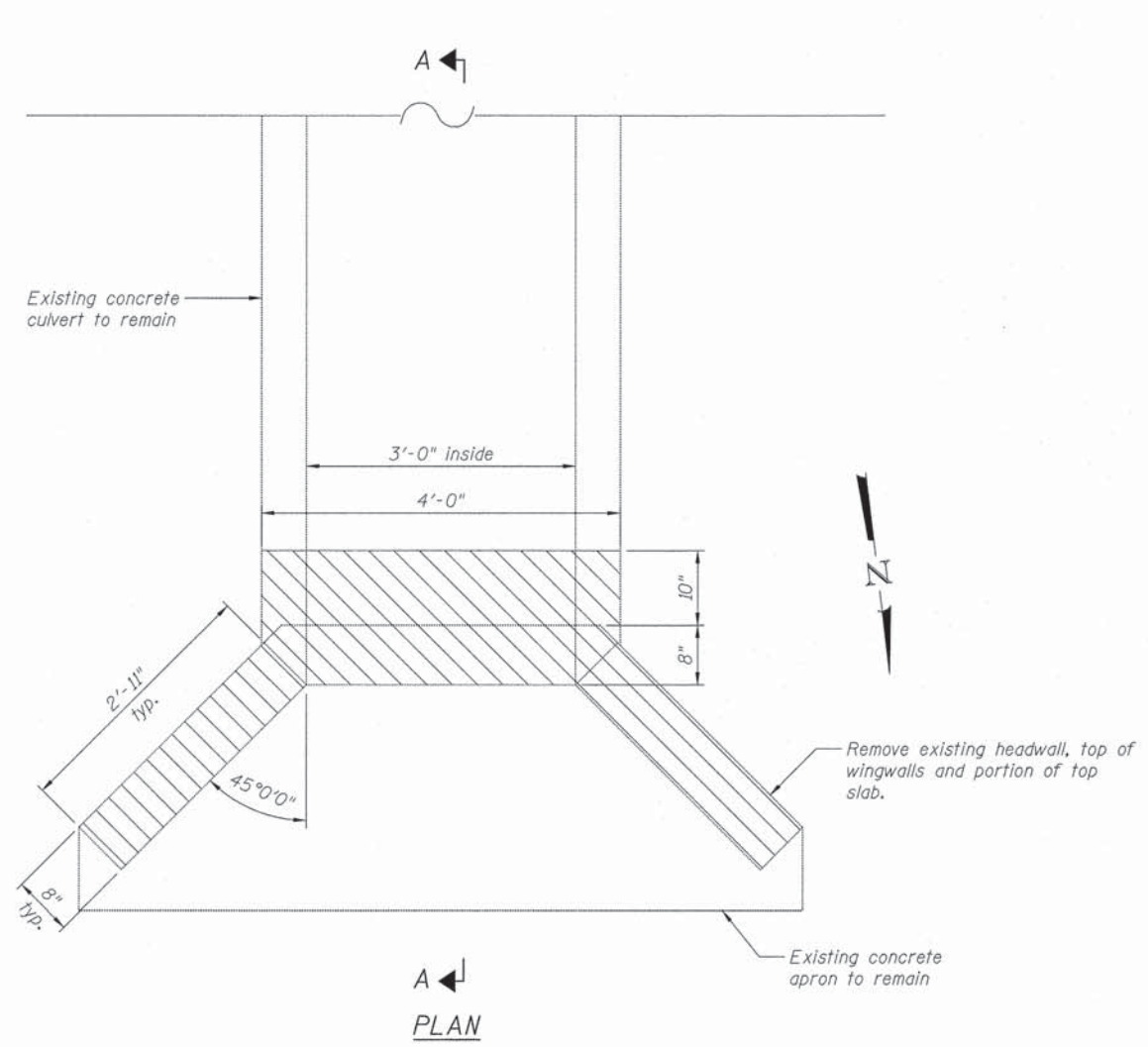
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

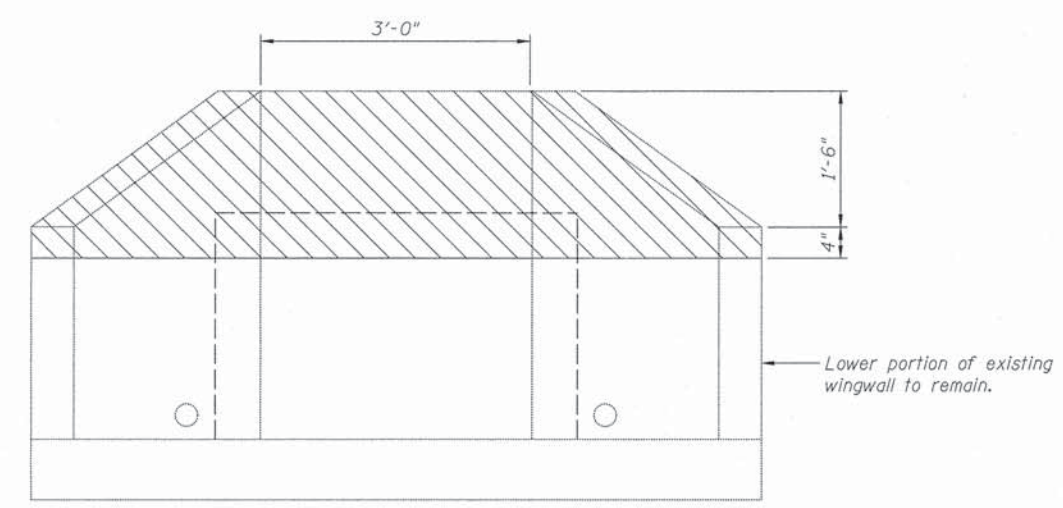
CAL-SAG GREENWAY TRAIL (ALSIP/PALOS PARK)
EXTENSION OF CULVERT AT 432+45 - PROPOSED CONCRETE

SHEET NO. 1 OF 3 SHEETS

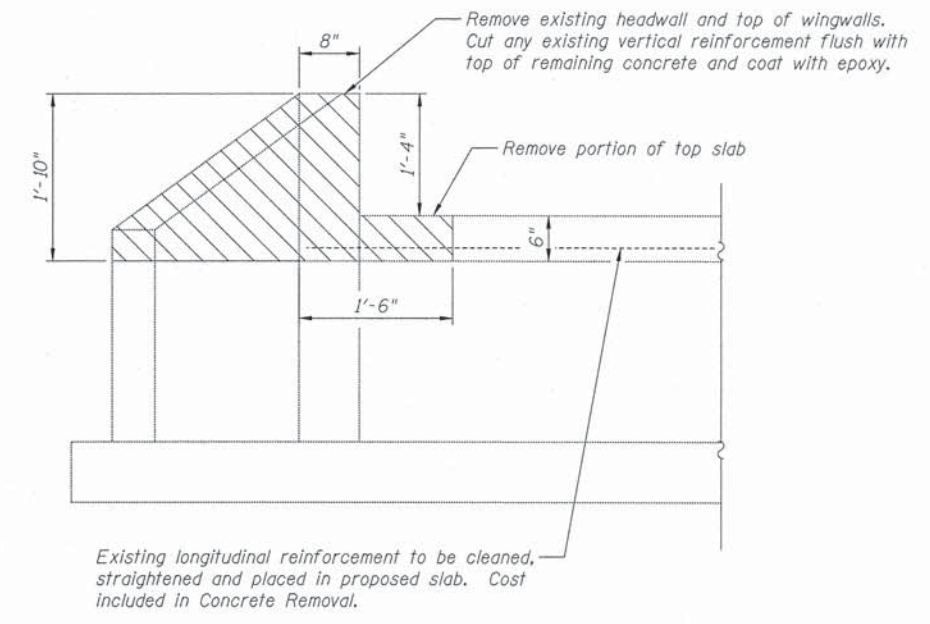
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	13-P4000-00-BT	COOK	109	27
CONTRACT NO. 63834				
ILLINOIS FED. AID PROJECT				



PLAN



ELEVATION



SECTION A-A

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	0.4

NOTES:

1. Verify all dimensions in the field prior to construction.
2. Any longitudinal reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splice or anchorage system. Cost included with Concrete Removal.

LEGEND

- Concrete Removal



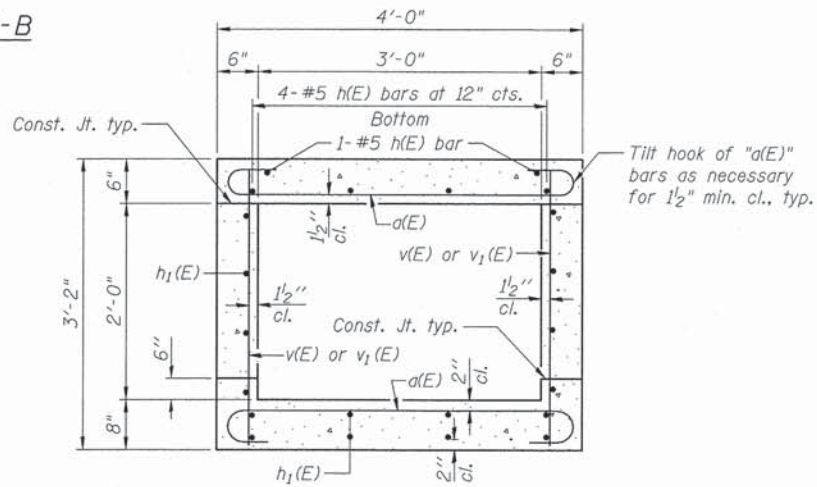
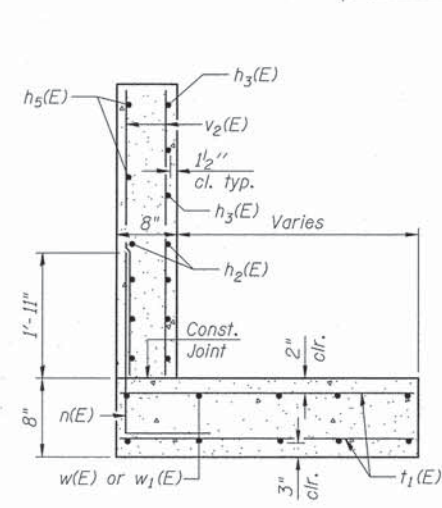
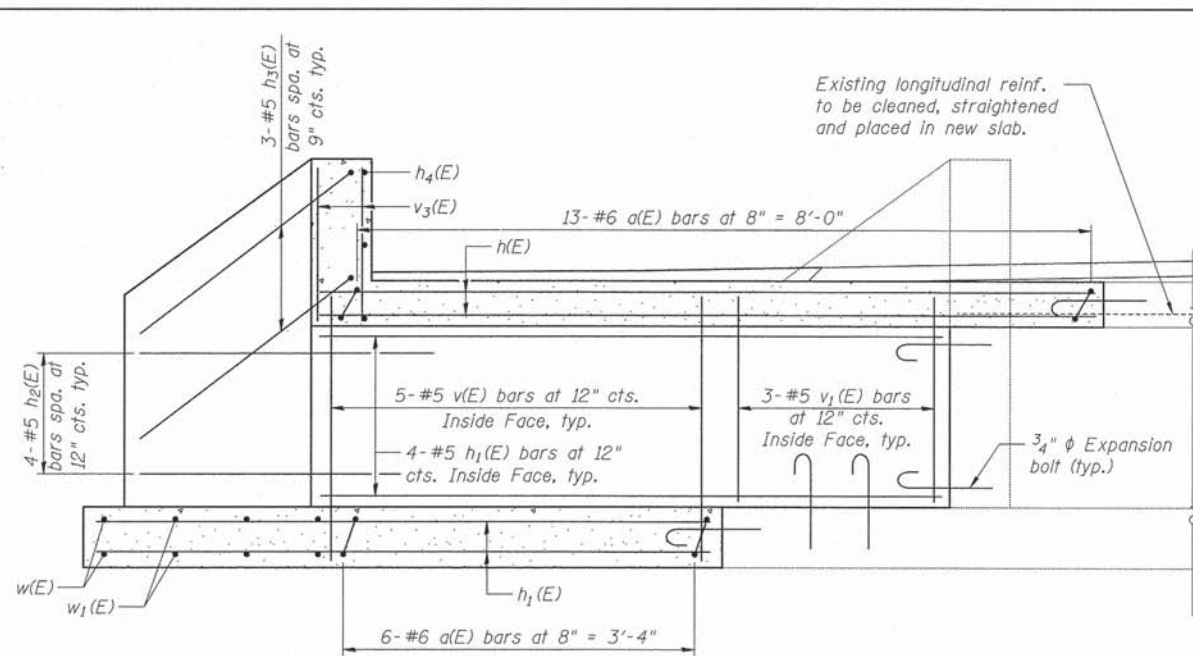
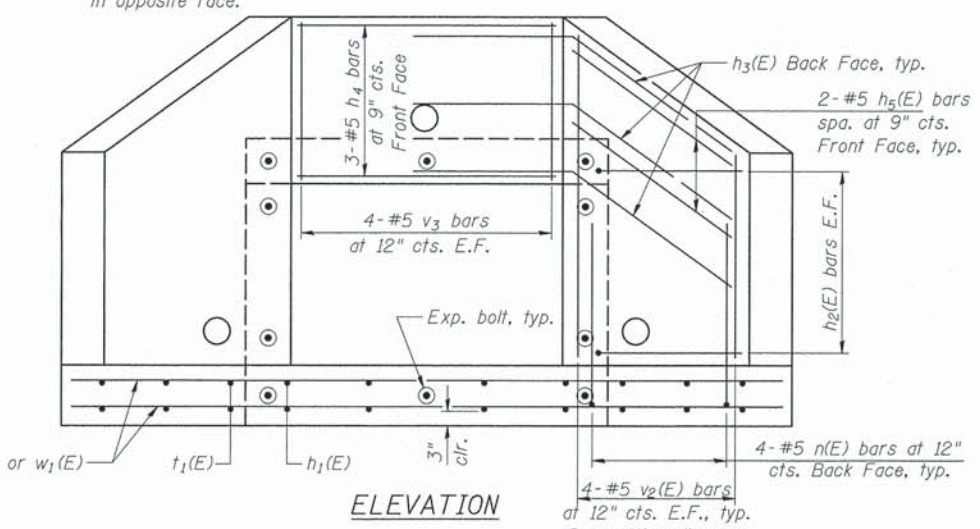
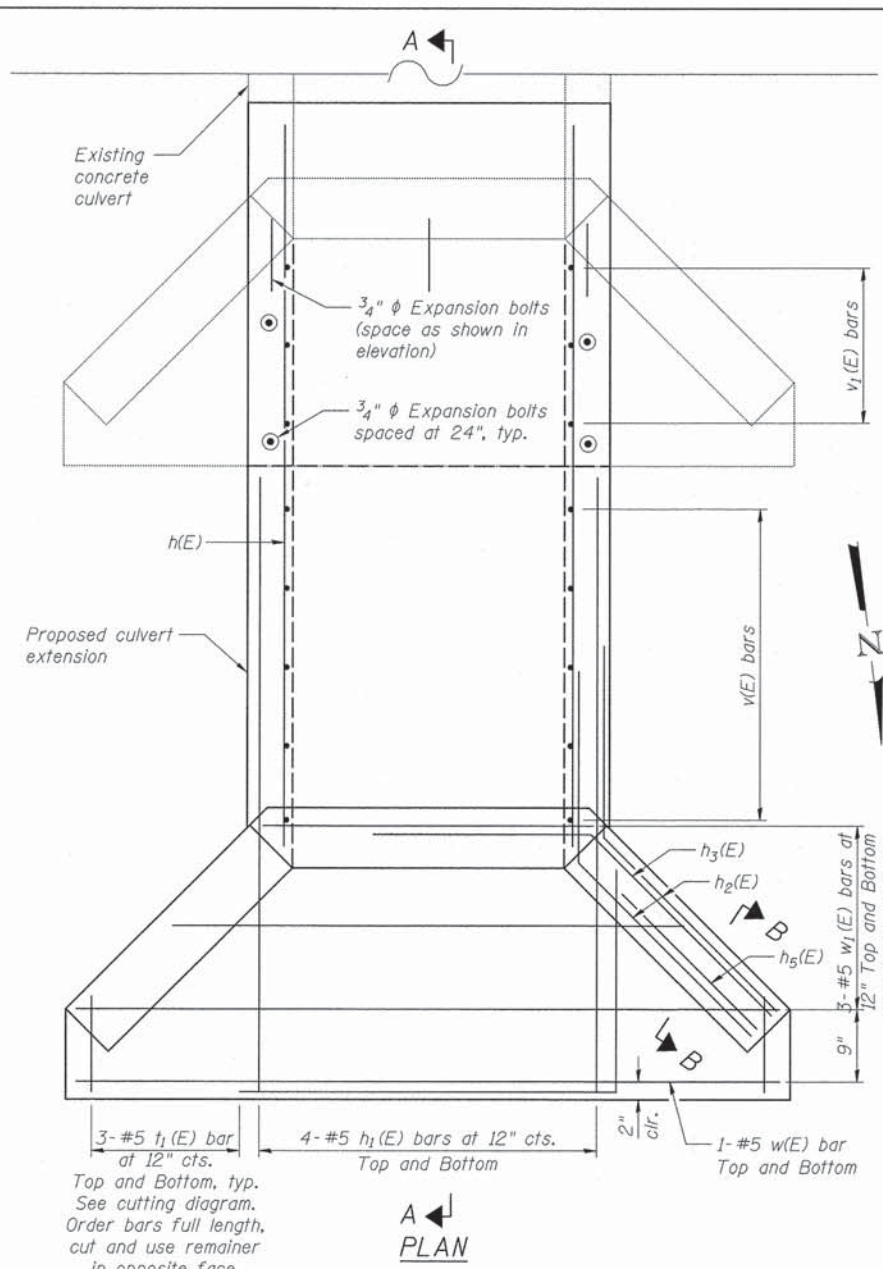
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	CHECKED - MAD	REVISED
PLOT SCALE =	DRAWN - BAR	REVISED
PLOT DATE =	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIPPALOS PARK)
EXTENSION OF CULVERT AT 432+45 - CONCRETE REMOVAL

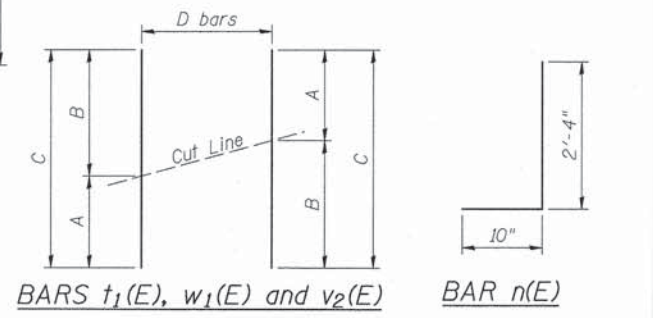
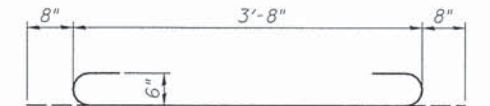
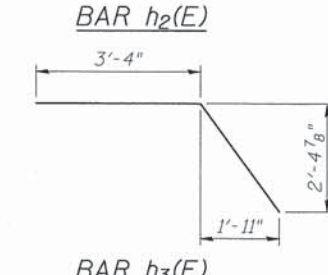
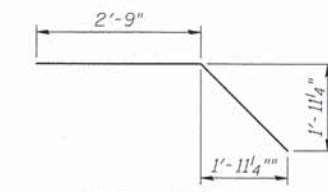
SHEET NO. 2 OF 3 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-P4000-00-BT	COOK	109	28
CONTRACT NO. 63834			ILLINOIS FED. AID PROJECT	



BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a(E)	19	#6	5'-0"	U	
h(E)	6	#5	8'-2"	—	
h ₁ (E)	16	#5	6'-8"	—	
h ₂ (E)	16	#5	5'-6"	—	
h ₃ (E)	6	#5	6'-6"	—	
h ₄ (E)	3	#5	3'-8"	—	
h ₅ (E)	4	#5	3'-1"	—	
n(E)	8	#5	3'-2"	—	
t ₁ (E)	6	#5	3'-7"	—	
v(E)	10	#5	2'-10"	—	
v ₁ (E)	6	#5	2'-2"	—	
v ₂ (E)	8	#5	5'-6"	—	
v ₃ (E)	8	#5	1'-6"	—	
w(E)	2	#5	7'-7"	—	
w ₁ (E)	3	#5	10'-11"	—	
Removal and Disposal of Unsuitable Material				Cu. Yd.	3
Porous Granular Embankment				Cu. Yd.	3
Reinforcement Bars, Epoxy Coated				Pound	670
Expansion Bolts, 3/4 Inch				Each	14
Concrete Box Culverts				Cu. Yd.	2.6



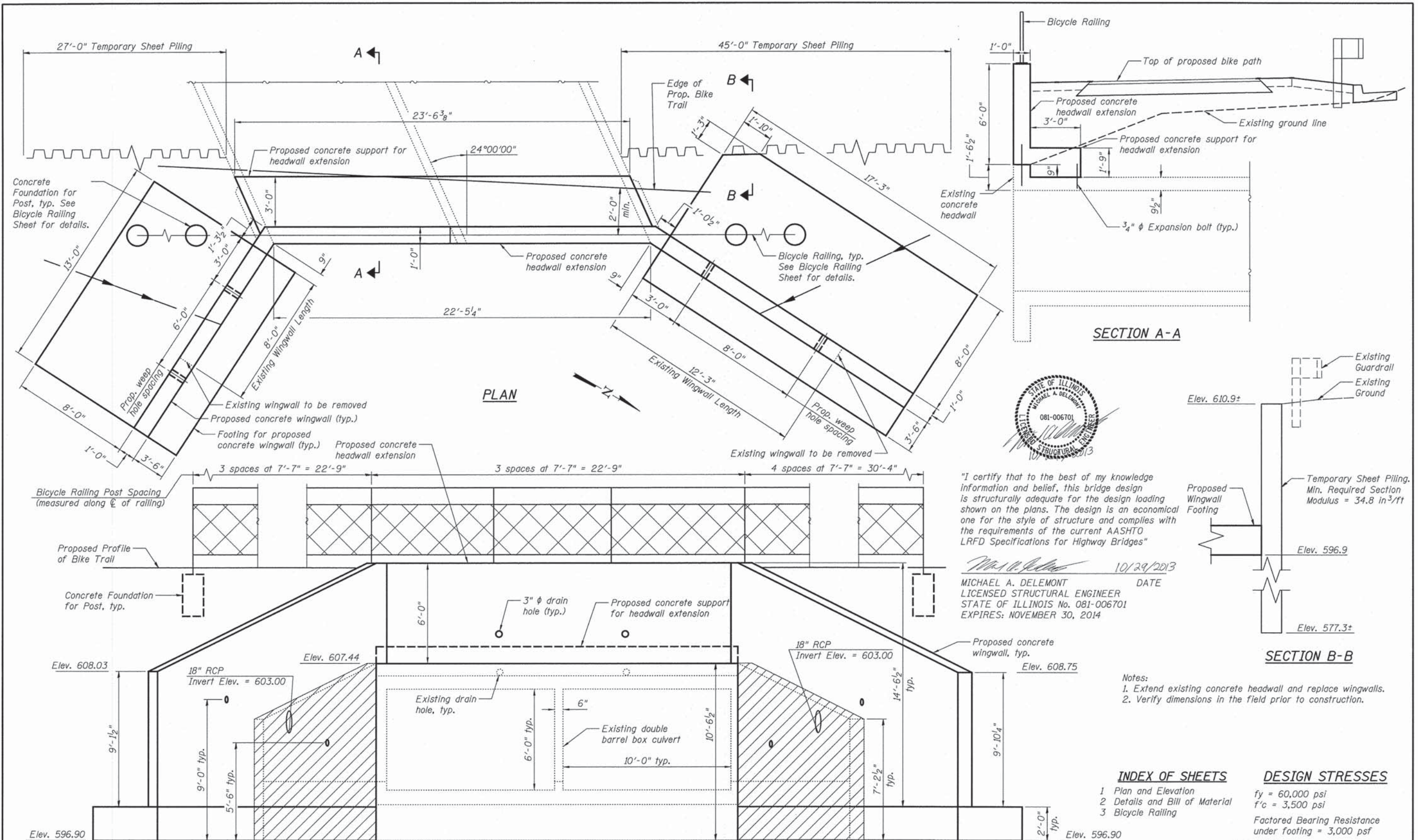
Bar	A	B	C	D
t ₁ (E)	11"	2'-8"	3'-7"	3
v ₂ (E)	2'-0"	3'-6"	5'-6"	4
w ₁ (E)	3'-4"	7'-6"	10'-10"	3

- NOTES:**
- Culvert to be extended 7'-0" with geometry similar to existing.
 - Verify all dimensions in the field prior to construction.
 - Expansion bolts shall be 3/4" φ hooked bolts.
 - Hooked bolts shall extend a minimum of 9" into new concrete.
 - E.F. indicates Each Face.

DESIGN STRESSES

f_y = 60,000 psi

f'c = 3,500 psi



USER NAME =	DESIGNED - BAR	REVISOR
PLLOT SCALE =	CHECKED - MAD	REVISOR
PLLOT DATE =	DRAWN - BAR	REVISOR
	CHECKED - MAD	REVISOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIP/PALOS PARK)
STRUCTURE NO. 016-2527 - PLAN AND ELEVATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-P4000-00-BT	COOK	109	30
				CONTRACT NO. 63834
ILLINOIS FED. AID PROJECT				

SHEET NO. 1 OF 3 SHEETS

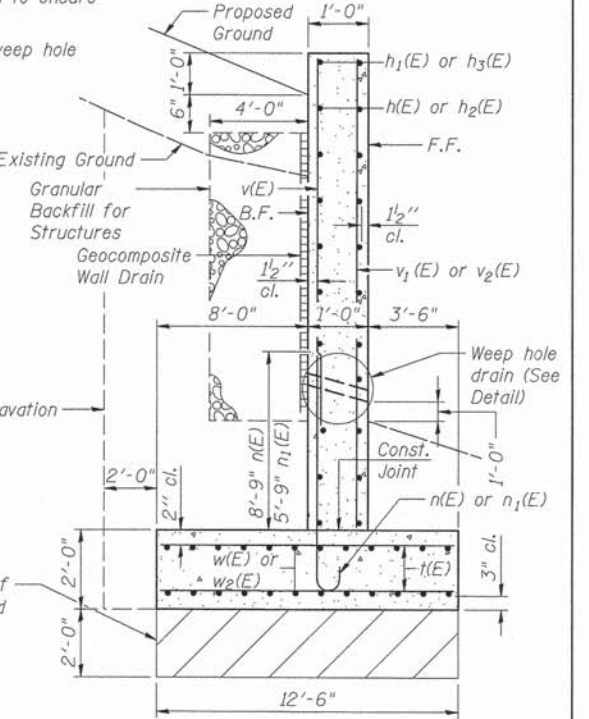
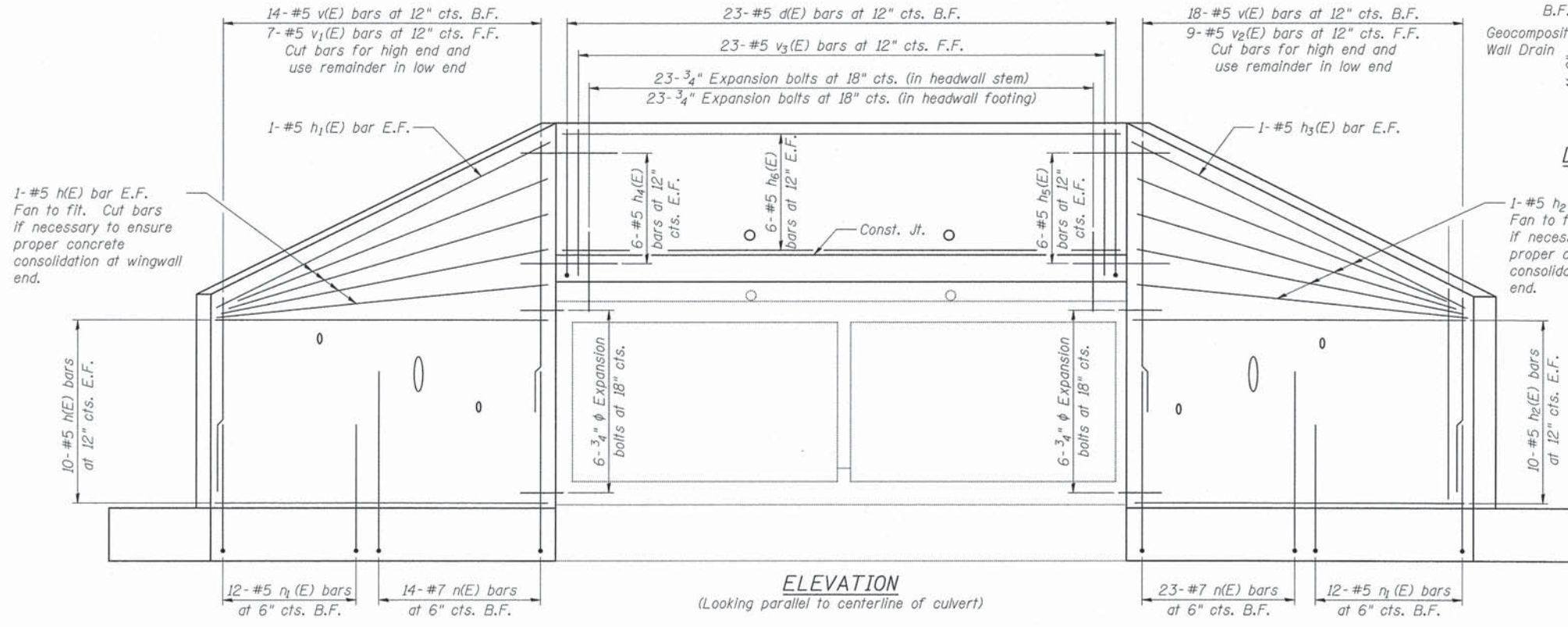
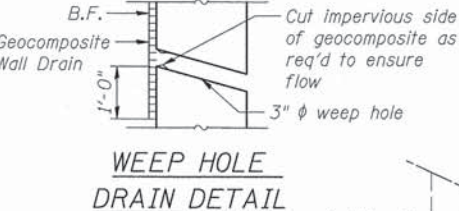
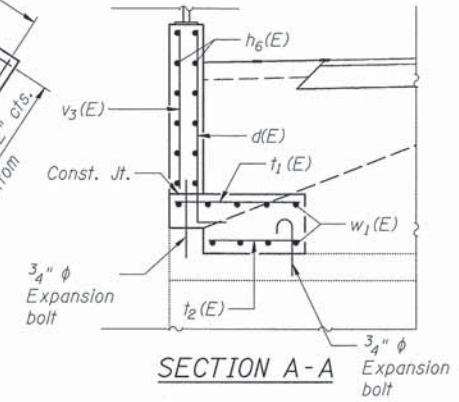
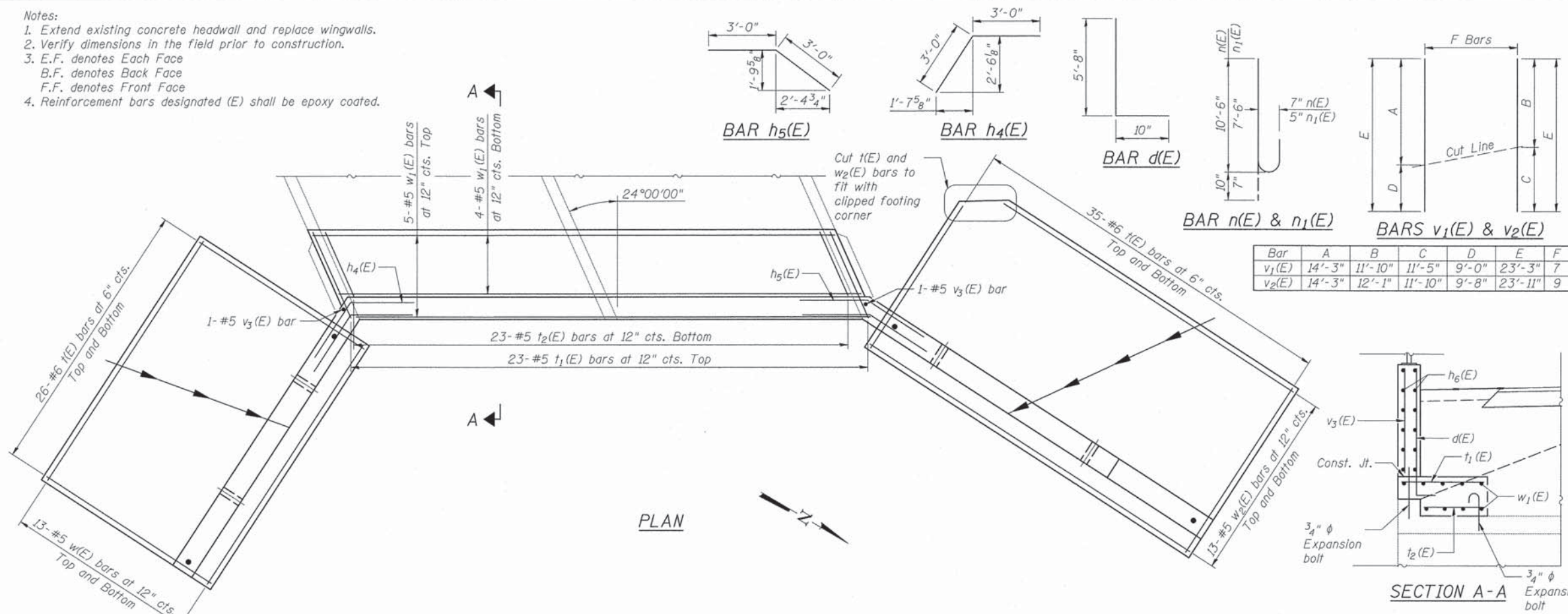
Notes:

1. Extend existing concrete headwall and replace wingwalls.
2. Verify dimensions in the field prior to construction.
3. E.F. denotes Each Face
B.F. denotes Back Face
F.F. denotes Front Face
4. Reinforcement bars designated (E) shall be epoxy coated.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	23	#5	6'-6"	
h(E)	28	#5	12'-8"	
h ₁ (E)	2	#5	14'-0"	
h ₂ (E)	28	#5	16'-11"	
h ₃ (E)	2	#5	17'-10"	
h ₄ (E)	12	#5	6'-0"	
h ₅ (E)	12	#5	6'-0"	
h ₆ (E)	12	#5	23'-2"	
n(E)	37	#7	11'-4"	
n ₁ (E)	24	#5	8'-1"	
t(E)	122	#6	12'-0"	
t ₁ (E)	23	#5	4'-0"	
t ₂ (E)	23	#5	2'-11"	
v(E)	32	#5	8'-2"	
v ₁ (E)	7	#5	23'-3"	
v ₂ (E)	9	#5	23'-11"	
v ₃ (E)	23	#5	5'-8"	
w(E)	26	#5	12'-6"	
w ₁ (E)	9	#5	23'-2"	
w ₂ (E)	26	#5	16'-9"	
Porous Granular Embankment			Cu. Yd.	27
Structure Excavation			Cu. Yd.	170
Removal and Disposal of Unsuitable Material for Structures			Cu. Yd.	27
Concrete Removal			Cu. Yd.	6.7
Concrete Structures			Cu. Yd.	0.8
Reinforcement Bars, Epoxy Coated			Pound	6,770
Expansion Bolts, 3/4 Inch			Each	58
Concrete Box Culverts			Cu. Yd.	51.8
Geocomposite Wall Drain			Sq. Yd.	10
Granular Backfill for Structures			Cu. Yd.	14
Temporary Sheet Piling			Sq. Ft.	2,420

Bar	A	B	C	D	E	F
v ₁ (E)	14'-3"	11'-10"	11'-5"	9'-0"	23'-3"	7
v ₂ (E)	14'-3"	12'-1"	11'-10"	9'-8"	23'-11"	9

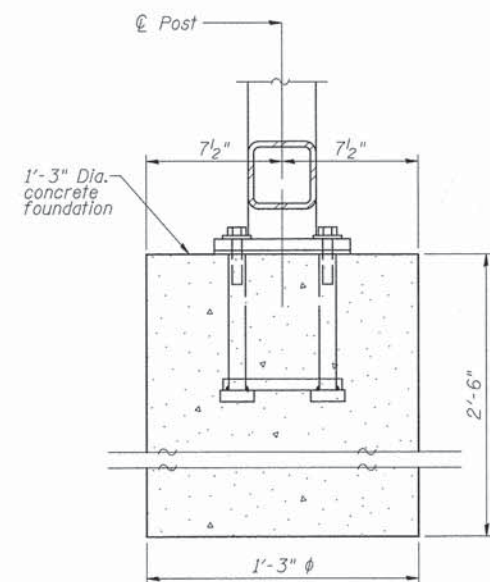
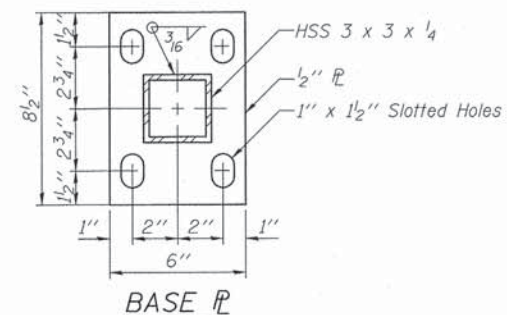
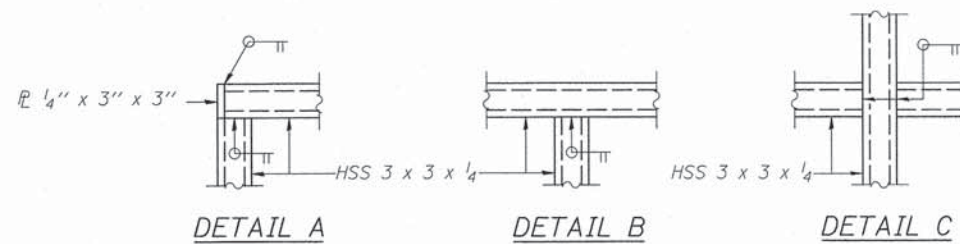
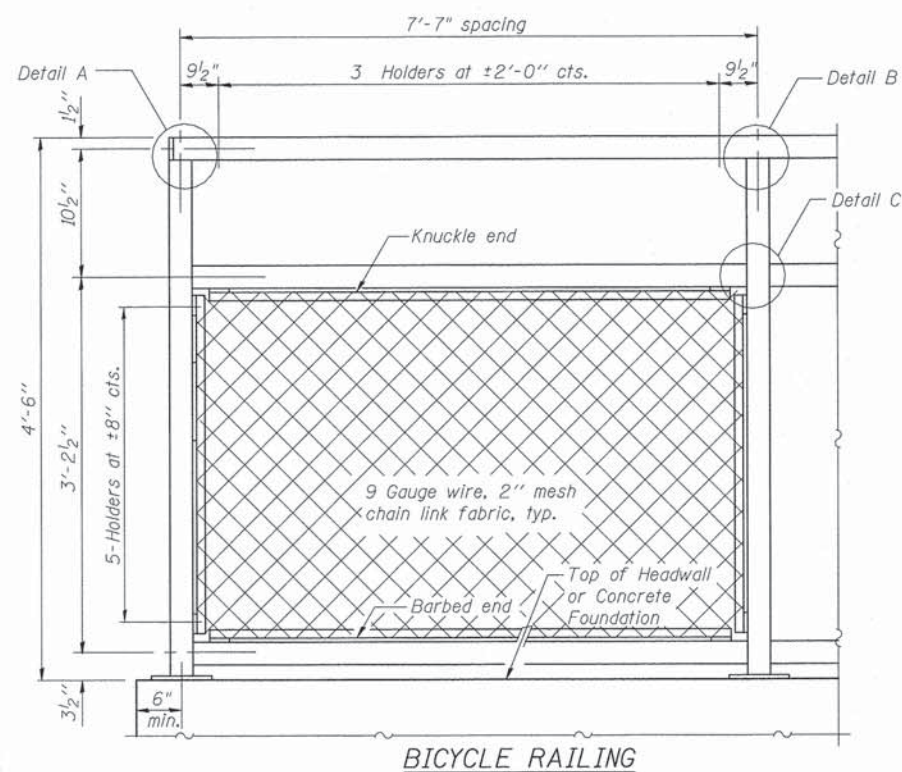


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PLOT SCALE =	CHECKED - MAD	REVISED
PLOT DATE =	DRAWN - BAR	REVISED
	CHECKED - MAD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIP/PALOS PARK)
STRUCTURE NO. 016-2527 - DETAILS AND BILL OF MATERIAL

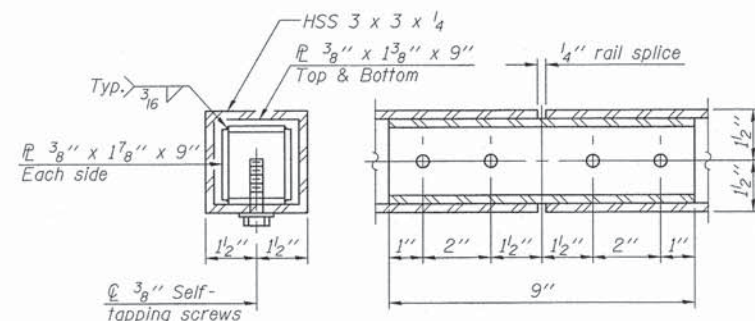
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-P4000-00-BT	COOK	109	31
			CONTRACT NO. 63834	



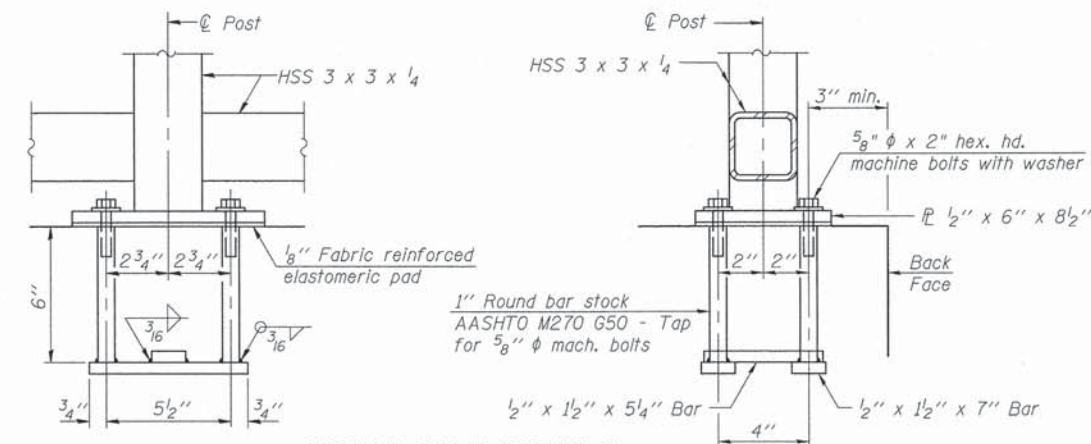
Cost of concrete foundation shall be included with pay item "Concrete Structures".

ANCHOR BOLT DETAILS AT RAILING POST

Information not shown is similar to Anchor Bolt Details



RAIL SPLICE



ANCHOR BOLT DETAILS

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

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	76



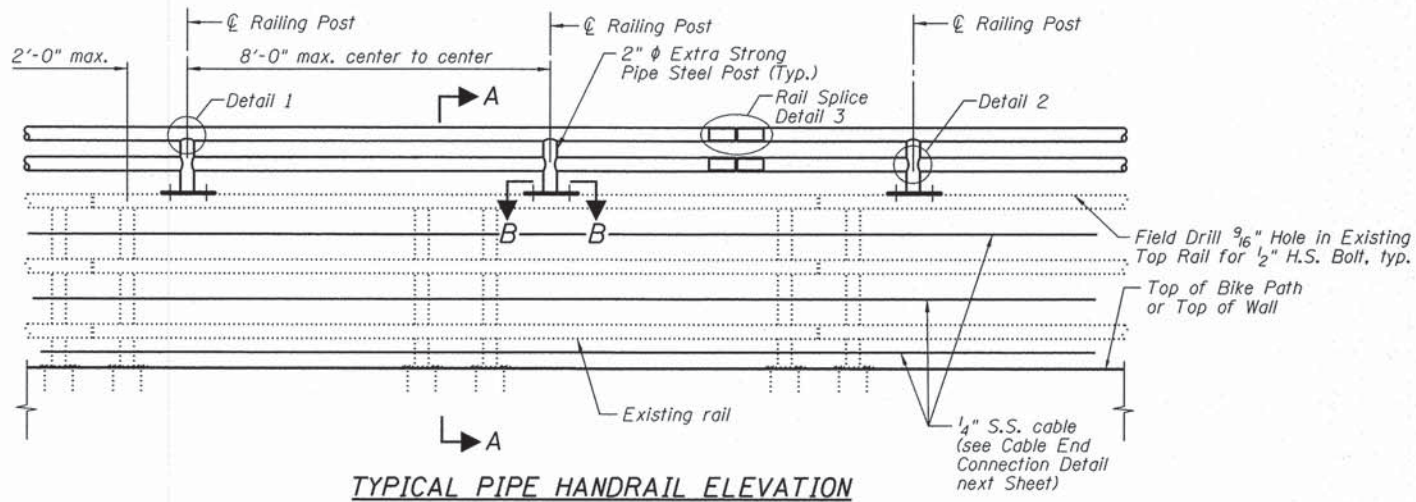
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PLOT SCALE =	CHECKED - MAD	REVISED
PLOT DATE =	DRAWN - BAR	REVISED
	CHECKED - MAD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

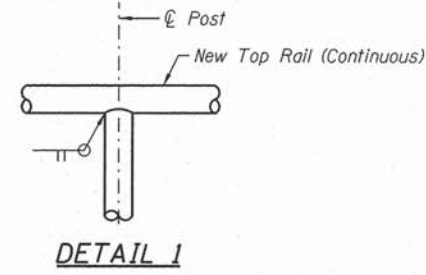
CAL-SAG GREENWAY TRAIL (ALSIPPALOS PARK)
STRUCTURE NO. 016-2527 - BICYCLE RAILING

SHEET NO. 3 OF 3 SHEETS

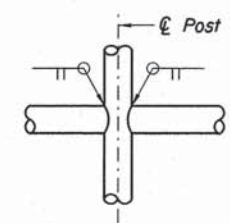
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-P4000-00-BT	COOK	109	32
CONTRACT NO. 63834				
ILLINOIS FED. AID PROJECT				



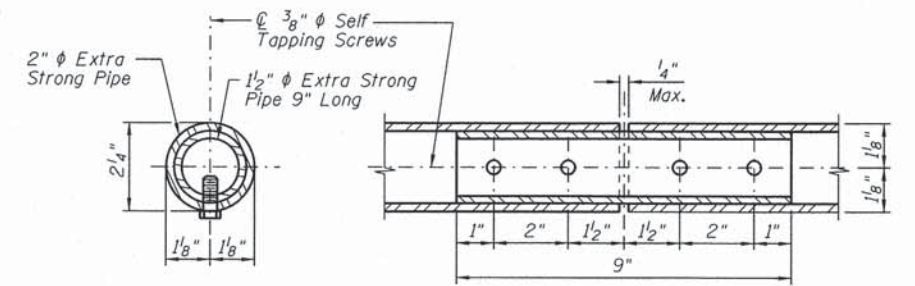
TYPICAL PIPE HANDRAIL ELEVATION



DETAIL 1



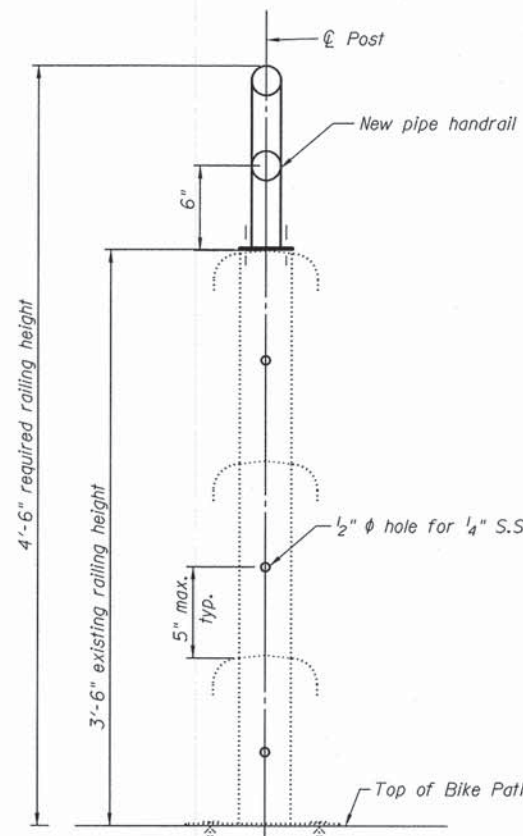
DETAIL 2



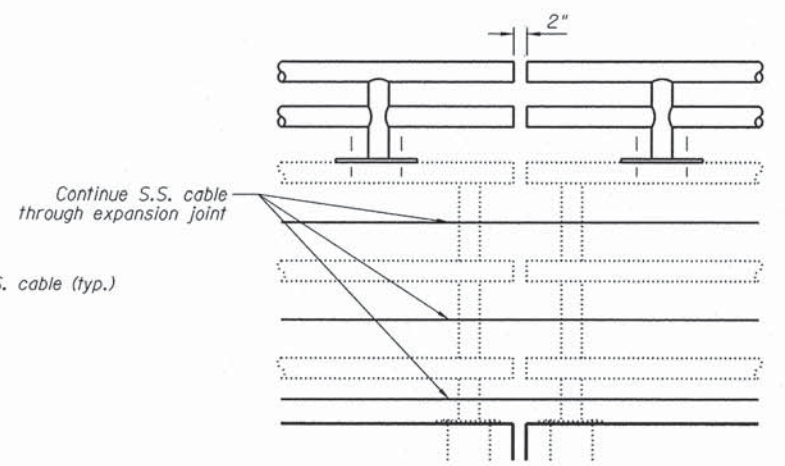
DETAIL 3 - RAIL SPLICE

RAIL MODIFICATION SCHEDULE

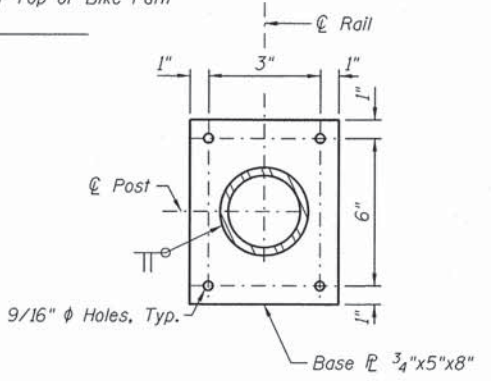
Location	Length	Offset
West Approach Slab	14'-0"	Rt.
West Approach Spans	109'-10"	Rt.
Truss Span	395'-10"	Rt.
East Approach Spans	103'-4"	Rt.
East Approach Slab	14'-0"	Rt.



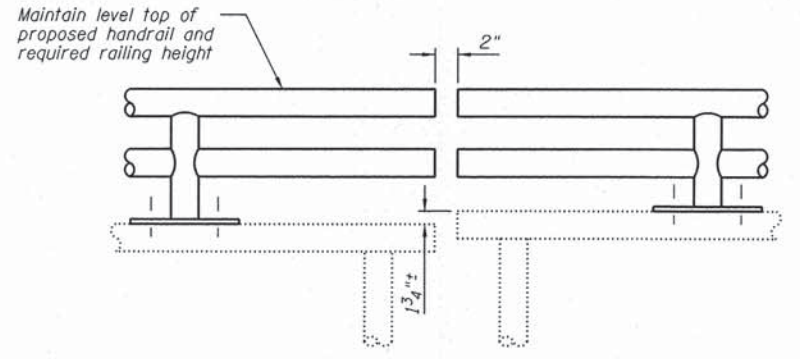
SECTION A-A



RAILING DETAIL AT EXPANSION JOINTS



SECTION B-B



UNEVEL RAILING DETAIL AT WEST APPROACH SPAN



"I certify that to the best of my knowledge information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current AASHTO LRFD Specifications for Highway Bridges"

Michael A. Delemont 10/29/2013
 MICHAEL A. DELEMONT DATE
 LICENSED STRUCTURAL ENGINEER
 STATE OF ILLINOIS No. 081-006701
 EXPIRES: NOVEMBER 30, 2014

INDEX OF SHEETS

- 1 127th St. Railing Details Over Cal-Sag Channel (SN 016-0570) - 1
- 2 127th St. Railing Details Over Cal-Sag Channel (SN 016-0570) - 2

BILL OF MATERIAL

Item	Length	Quantity
Rub Rail	Foot	780
Handrail Modification	L Sum	1

NOTES:

- Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot.
- Hollow structural steel tubing shall conform to the requirements of ASTM designation A 500, Grade B, Structural Steel Tubing.
- All other steel shapes and plates shall conform to the requirements of AASHTO M-270M, Grade 345.
- All posts, railing, splices, anchor devices, and bent plates shall be galvanized after shop fabrication according to AASHTO M-111 and ASTM A-385. All bolts, nuts and washers shall be galvanized according to AASHTO M-232 except stainless steel bolts as noted.
- Vent holes for galvanizing shall be placed in the posts and rails at locations that will not allow the accumulation of moisture in the members.
- Rail to match horizontal profile of bikepath.
- For S.S. cable, use $\frac{1}{4}$ " dia. stainless steel cable, 1x19 class with a breaking strength of 8,200 lbs. Use $\frac{1}{2}$ " dia. stainless steel A276 Type 300 or 400 Series threaded rod with a minimum tensile strength of 90 ksi. Use stainless steel nuts and washers. Use threaded hex swaged stud with a thread size of $\frac{1}{2}$ - 20 and length of thread of 3" min. Use a total length of threaded hex swaged stud as required by the manufacturer for $\frac{1}{4}$ " 1x19 S.S. cable. Install cable as shown such that a 6" sphere will not pass through any opening in the railing.
- Verify all dimensions in the field prior to fabrication and construction.
- S.S. denotes Stainless Steel.

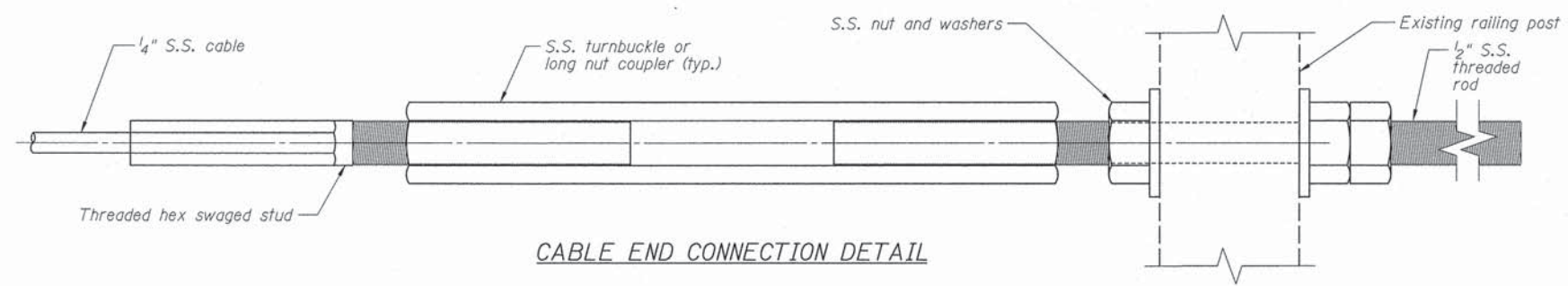


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	CHECKED - MAD	REVISED
PLOT SCALE =	DRAWN - BAR	REVISED
PLOT DATE =	CHECKED - MAD	REVISED

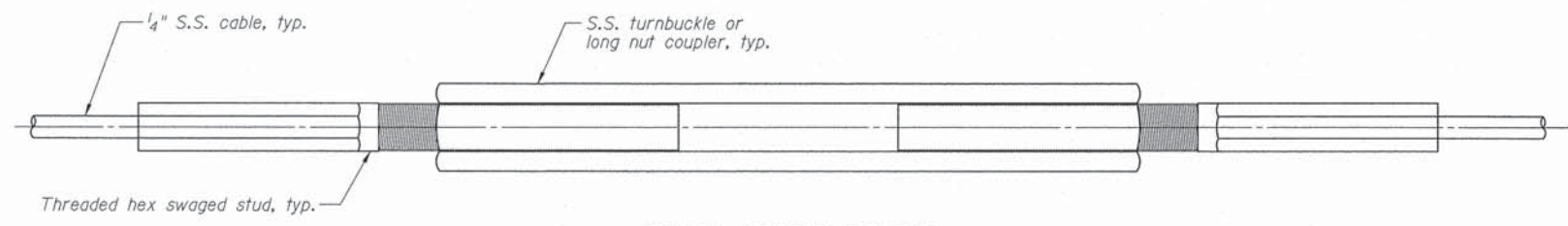
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
 127th ST. RAILING DETAILS OVER CAL-SAG CHANNEL - 1 (SN 016-0570)

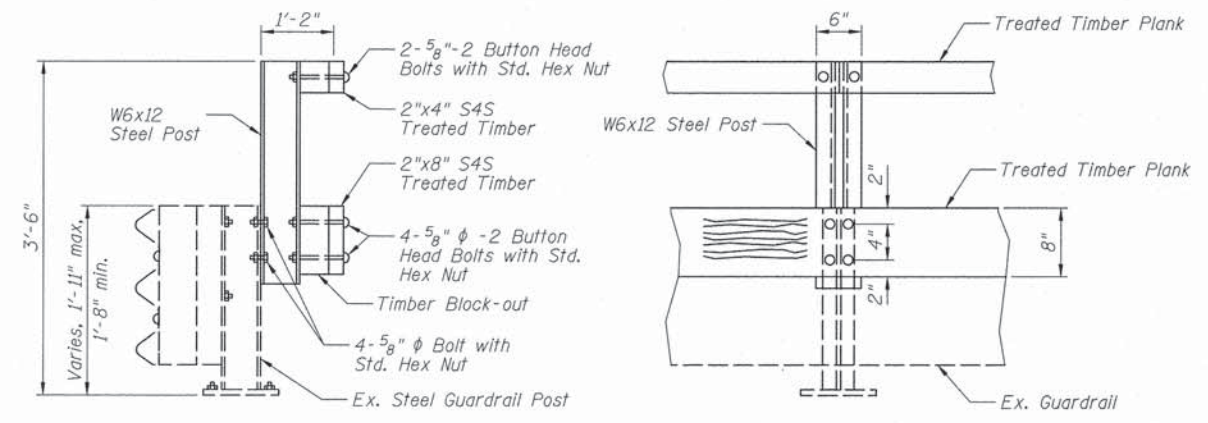
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-P4000-00-BT	COOK	109	33
				CONTRACT NO. 63834
ILLINOIS FED. AID PROJECT				



CABLE END CONNECTION DETAIL



CABLE SPLICE DETAIL



TYPICAL CROSS SECTION

TYPICAL ELEVATION
(Bike Path Side)

TIMBER RUB RAIL

RUB RAIL SCHEDULE

Location	Begin Sta.	End Sta.	Offset
West Approach Spans	787+20.00	789+50.00	Lt.
Truss Span	789+50.00	793+46.00	Lt.
East Approach Spans	793+46.00	795+00.00	Lt.

NOTES:

1. Verify all dimensions in the field prior to fabrication and construction.
2. S.S. denotes Stainless Steel.
3. S4S denotes Surface Four Sides



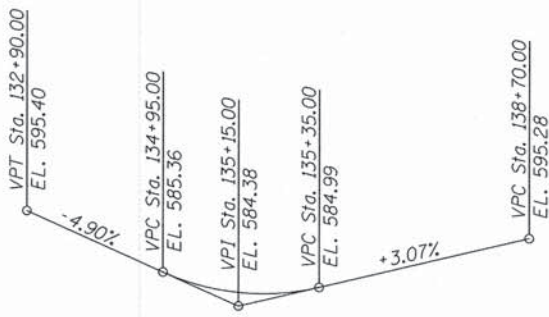
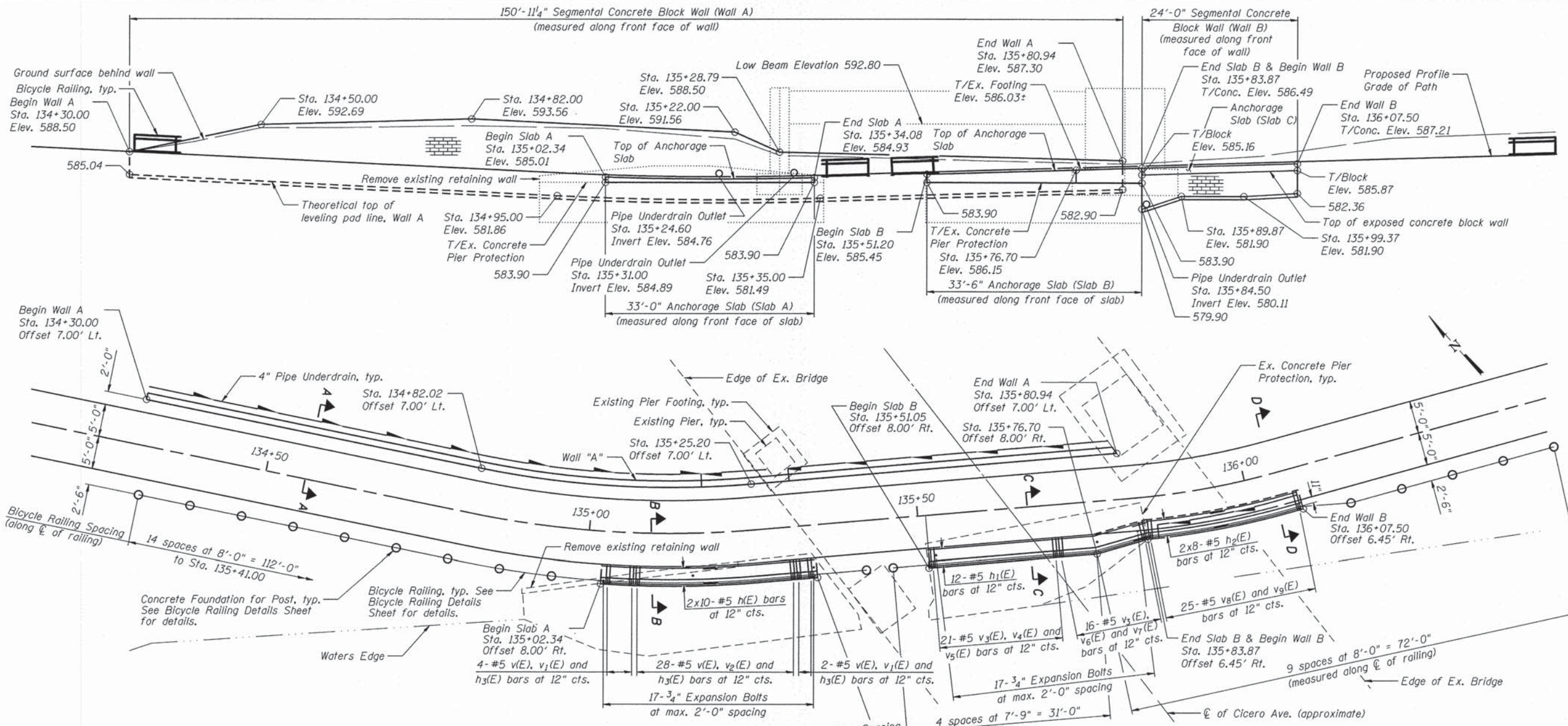
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	CHECKED - MAD	REVISED
PLOT SCALE =	DRAWN - BAR	REVISED
PLOT DATE =	CHECKED - MAD	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIP /PALOS PARK)
127th ST. RAILING DETAILS OVER CAL-SAG CHANNEL (SN 016-0570) - 2

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-P4000-00-BT	COOK	109	34
			CONTRACT NO. 63834	
ILLINOIS FED. AID PROJECT				

SHEET NO. 2 OF 2 SHEETS



CURVE DATA

PI STA. = 135+03.77
 $\Delta = 16^\circ 29' 30''$ (LT)
 $D = 38^\circ 11' 50''$
 $R = 150.00'$
 $T = 21.74'$
 $L = 43.18'$
 $E = 1.57'$
 P.C. STA. = 134+82.03
 P.T. STA. = 135+25.20

CURVE DATA

PI STA. = 135+93.53
 $\Delta = 10^\circ 37' 42''$ (LT)
 $D = 47^\circ 44' 47''$
 $R = 120.00'$
 $T = 11.16'$
 $L = 22.26'$
 $E = 0.52'$
 P.C. STA. = 135+82.37
 P.T. STA. = 136+04.63

MINIMUM BAR LAP
 #5 Bar = 2'-0"

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

DESIGN STRESSES

FIELD UNITS
 $f'c = 3,500$ P.S.I.
 $F_y = 60,000$ P.S.I. (Reinf.)



"I certify that to the best of my knowledge and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current AASHTO LRFD Specifications for Highway Bridges"

MICHAEL A. DELEMONT
 LICENSED STRUCTURAL ENGINEER
 STATE OF ILLINOIS No. 081-006701
 EXPIRES: NOVEMBER 30, 2014

INDEX OF SHEETS

- 1 Plan and Elevation
- 2 Details and Bill of Material
- 3 Bicycle Railing

NOTES

1. All reinforcement bars shall be epoxy coated.
2. Bars indicated thus 1 x 7 - #5 etc. indicates 1 line of bars with 7 lengths per line.
3. For Sections, removal details, reinforcement details and Bill of Material, see Details and Bill of Material Sheet.



USER NAME =	DESIGNED - BAR	REVISED
	CHECKED - MAD	REVISED
PLOT SCALE =	DRAWN - BAR	REVISED
PLOT DATE =	CHECKED - MAD	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

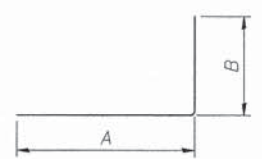
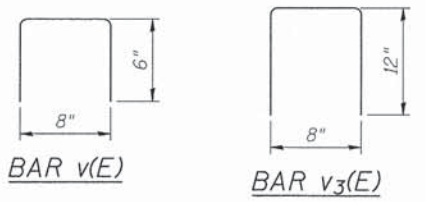
CAL-SAG GREENWAY TRAIL (ALSIP/PALOS PARK)
 RETAINING WALL UNDER CICERO AVE. - PLAN AND ELEVATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-P4000-00-BT	COOK	109	35
CONTRACT NO. 63834				
[ILLINOIS] FED. AID PROJECT				

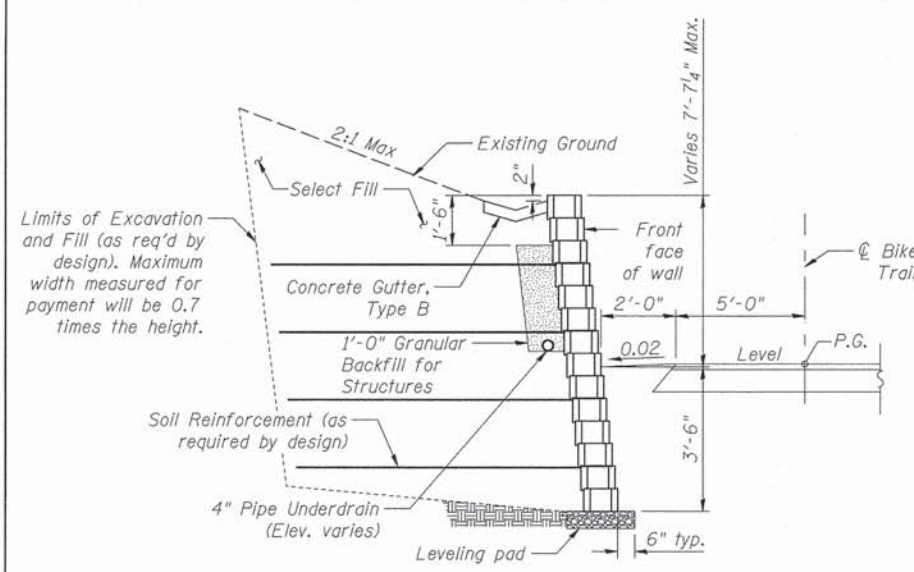
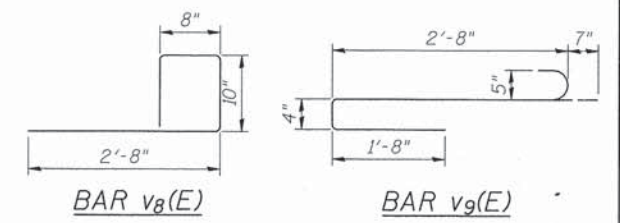
SHEET NO. 1 OF 3 SHEETS

BILL OF MATERIAL

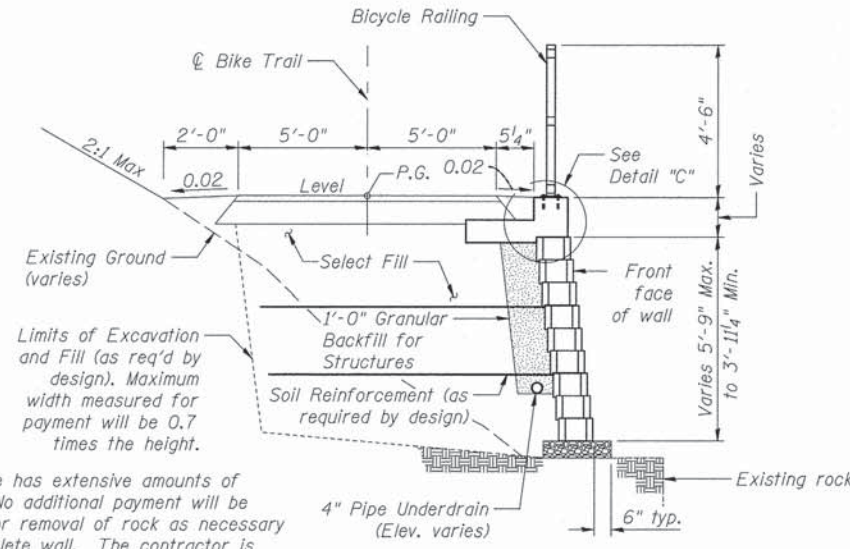
Bar	No.	Size	Length	Shape
h(E)	20	#5	17'-6"	—
h ₁ (E)	12	#5	33'-2"	—
h ₂ (E)	16	#5	14'-0"	—
h ₃ (E)	34	#5	2'-7"	—
v(E)	34	#5	1'-8"	U
v ₁ (E)	6	#5	3'-3"	U
v ₂ (E)	28	#5	3'-1"	U
v ₃ (E)	37	#5	2'-8"	U
v ₄ (E)	21	#5	3'-11"	U
v ₅ (E)	21	#5	2'-5"	U
v ₆ (E)	16	#5	4'-5"	U
v ₇ (E)	16	#5	2'-11"	U
v ₈ (E)	25	#5	5'-0"	U
v ₉ (E)	25	#5	5'-2"	U
Concrete Removal			Cu. Yd.	1.5
Structure Excavation			Cu. Yd.	344
Concrete Structures			Cu. Yd.	11.2
Reinforcement Bars, Epoxy Coated			Pound	1,930
Expansion Bolts, 3/4 Inch			Each	34
Geocomposite Wall Drain			Sq. Yd.	63
Concrete Gutter, Type B			Foot	151
Granular Backfill for Structures			Cu. Yd.	21
Segmental Concrete Block Wall			Sq. Ft.	1,315
Pipe Underdrains for Structures 4"			Foot	175



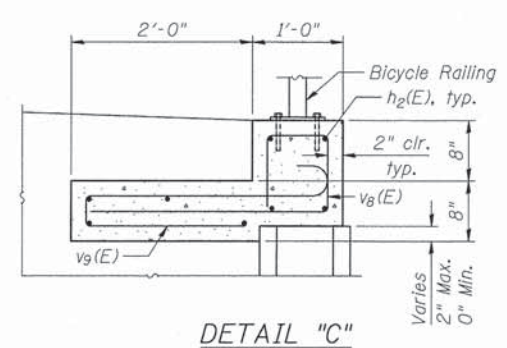
Bar	A	B
v ₁ (E)	2'-7"	8"
v ₂ (E)	2'-7"	6"
v ₄ (E)	2'-7"	1'-4"
v ₅ (E)	1'-7"	10"
v ₆ (E)	2'-7"	1'-10"
v ₇ (E)	1'-7"	1'-4"



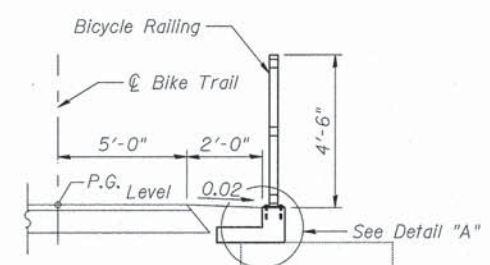
SECTION A-A
(Wall A)



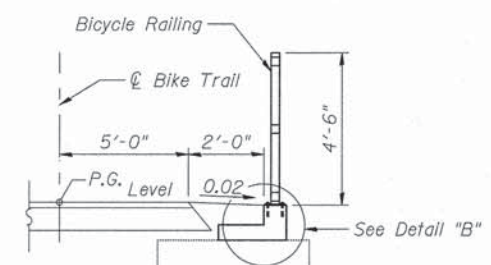
SECTION D-D
(Wall B)



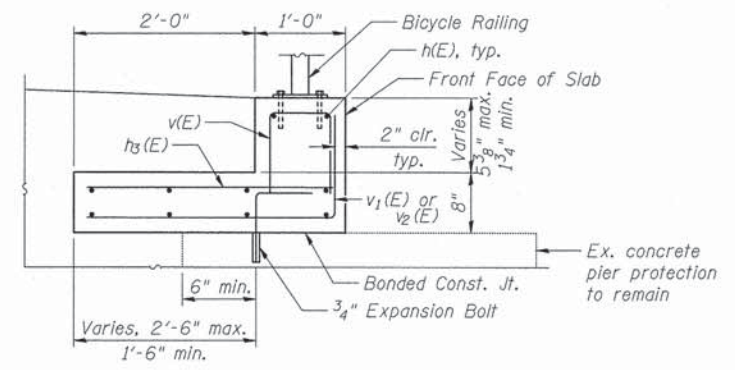
DETAIL "C"



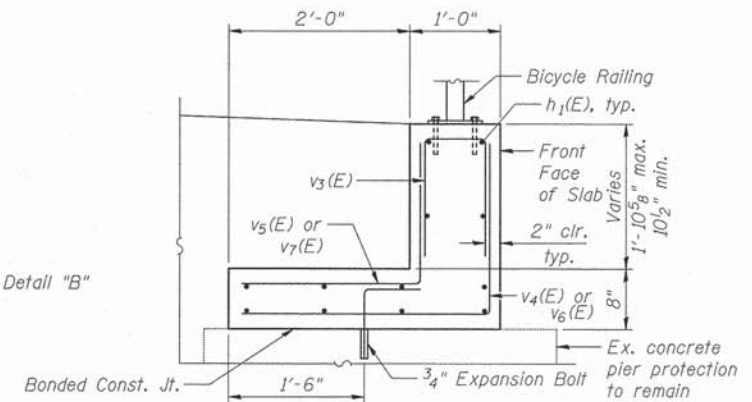
SECTION B-B
(Slab A)



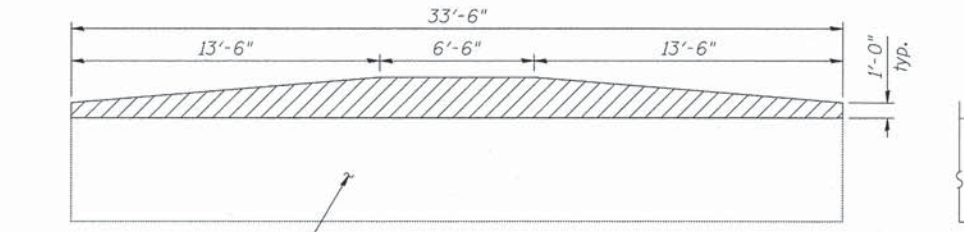
SECTION C-C
(Slab B)



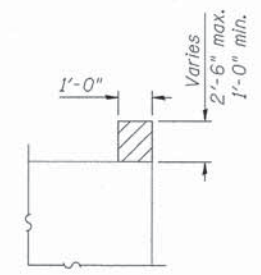
DETAIL "A"



DETAIL "B"



ELEVATION



SECTION

CONCRETE RETAINING WALL REMOVAL

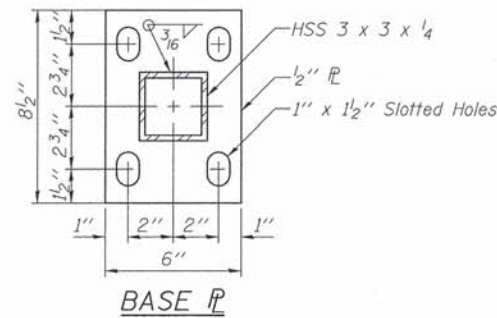
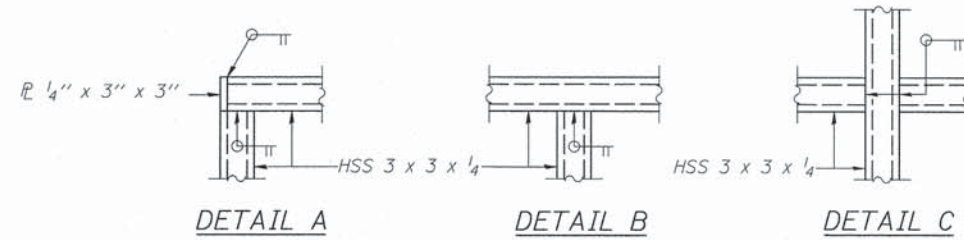
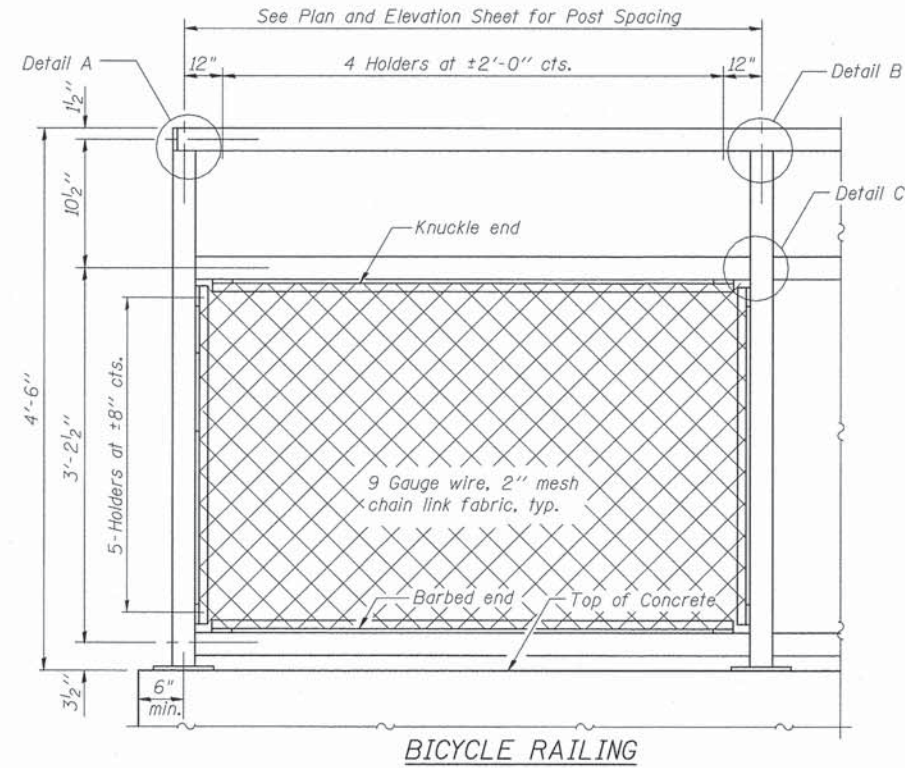


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	CHECKED -	REVISED

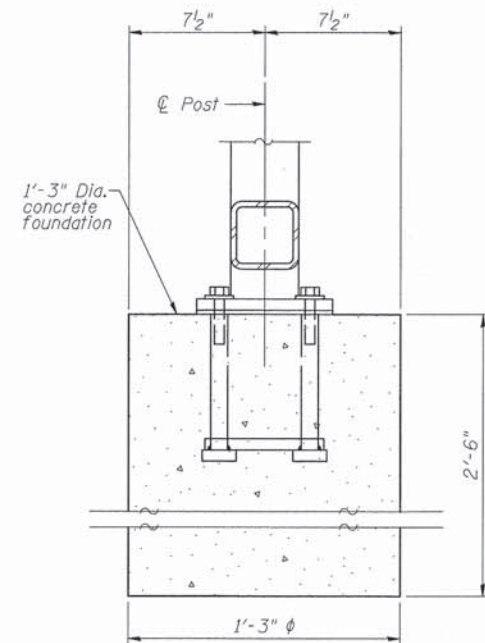
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIPPALOS PARK)
RETAINING WALL UNDER CICERO AVE. - DETAILS AND BILL OF MATERIAL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-P4000-00-BT	COOK	109	36
CONTRACT NO. 63834				
ILLINOIS FED. AID PROJECT				

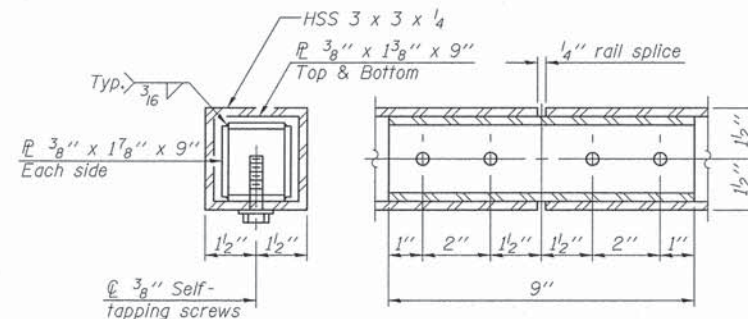


NOTE
1. All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

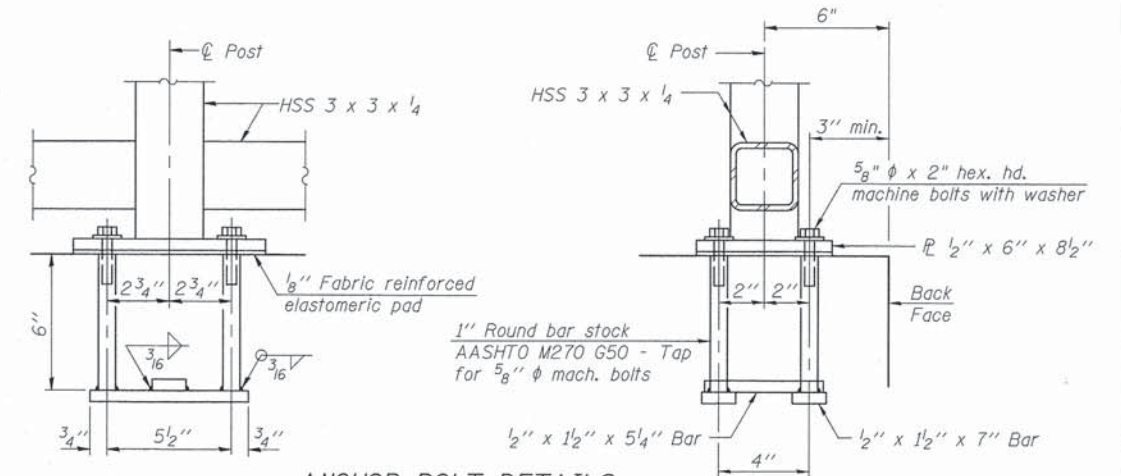


Cost of concrete foundation shall be included with pay item "Concrete Structures".

ANCHOR BOLT DETAILS AT RAILING POST
Information not shown is similar to Anchor Bolt Details



RAIL SPLICE



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

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	215



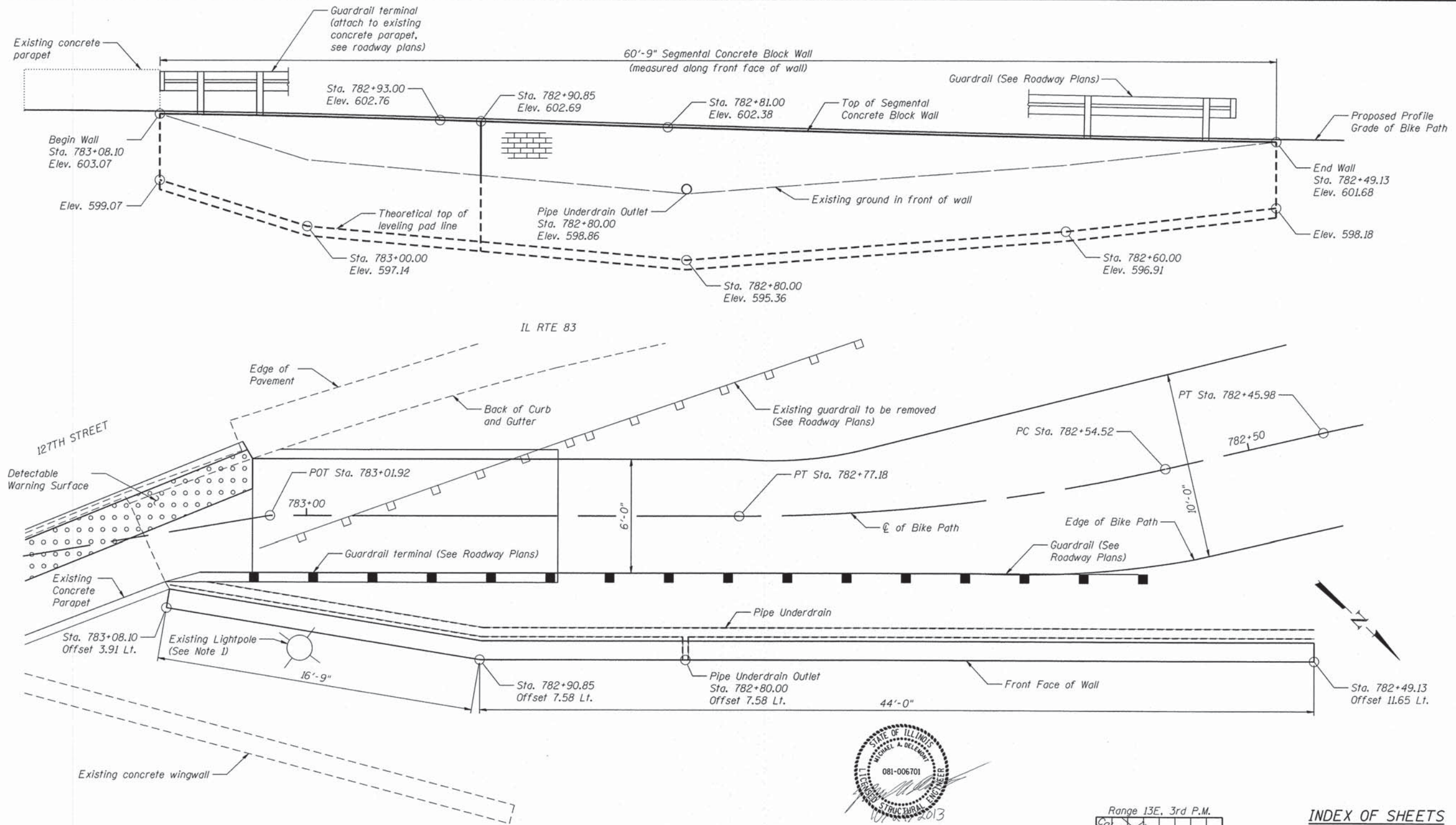
USER NAME =	DESIGNED - BAR	REVISED
PLOT SCALE =	CHECKED - MAD	REVISED
PLOT DATE =	DRAWN - BAR	REVISED
	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIPPALOS PARK)
RETAINING WALL UNDER CICERO AVE. - BICYCLE RAILING

SHEET NO. 3 OF 3 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-P4000-00-BT	COOK	109	37
			CONTRACT NO. 63834	
ILLINOIS FED. AID PROJECT				




CURVE DATA

P.I. STA. = 782+65.90
 $\Delta = 12^\circ 59' 00''$ (RT)
 $D = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 11.38'$
 $L = 22.66'$
 $E = 0.65'$
 P.C. STA. = 782+54.52
 P.T. STA. = 782+77.18

DESIGN SPECIFICATIONS
 2012 AASHTO LRFD Bridge
 Design Specifications, 6th Edition

"I certify that to the best of my knowledge and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with the requirements of the current AASHTO LRFD Specifications for Highway Bridges"


 MICHAEL A. DELEMONT
 LICENSED STRUCTURAL ENGINEER
 STATE OF ILLINOIS No. 081-006701
 EXPIRES: NOVEMBER 30, 2014



INDEX OF SHEETS

1. Plan and Elevation
2. Details

NOTES

1. Do not disturb existing lightpole or lightpole foundation. Existing lightpole foundation may not be used as a leveling pad for concrete block wall.

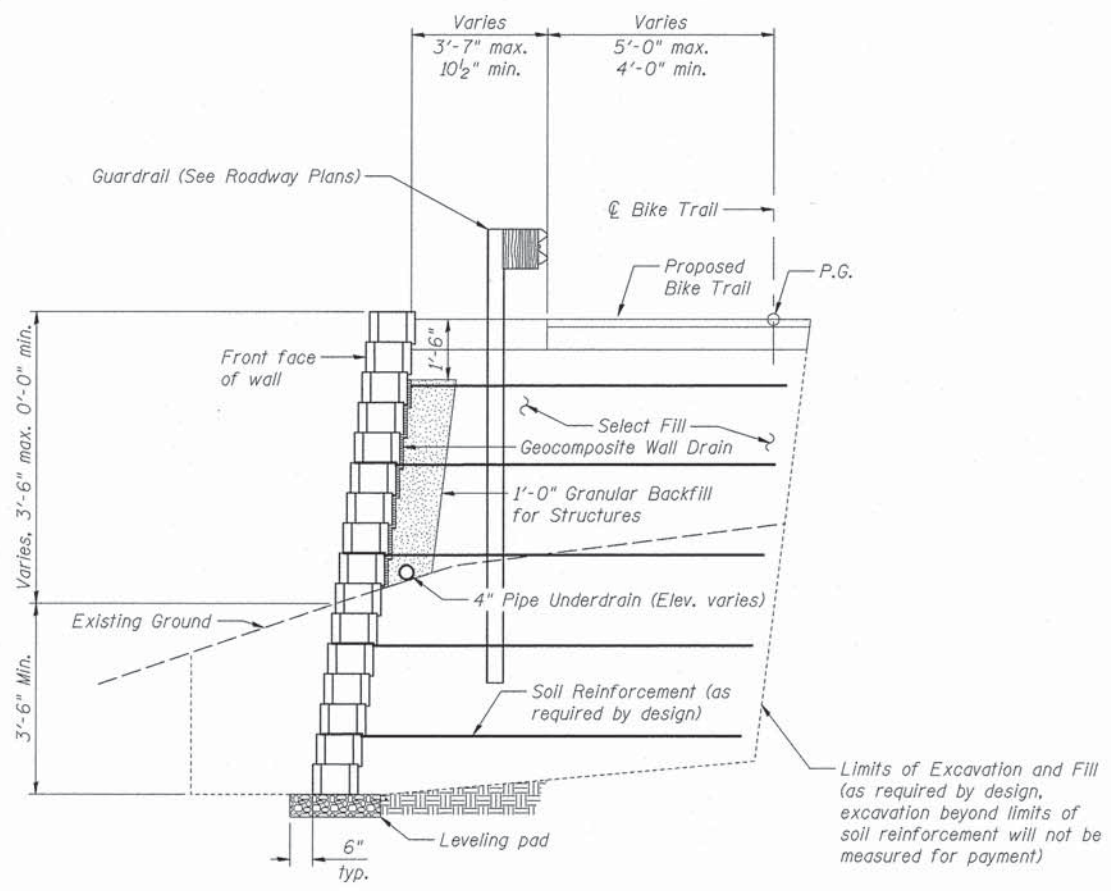


USER NAME =	DESIGNED - BAR	REVISIONS
	CHECKED - MAD	REVISIONS
PLOT SCALE =	DRAWN - BAR	REVISIONS
PLOT DATE =	CHECKED - MAD	REVISIONS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIP/PALOS PARK)
RETAINING WALL AT 782+50 - PLAN AND ELEVATION

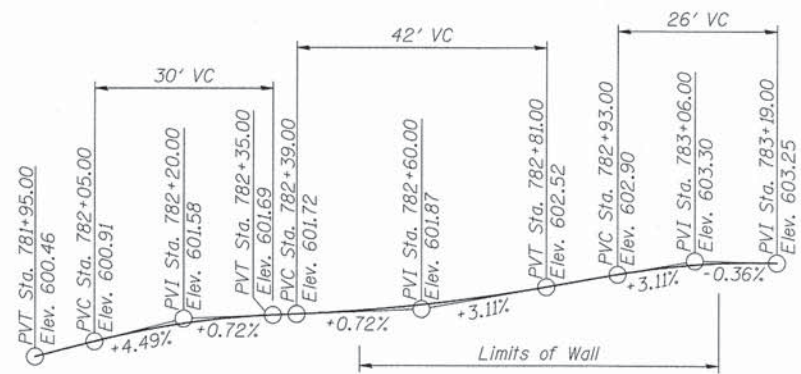
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	13-P4000-00-BT	COOK	109	38
CONTRACT NO. 63834				
[ILLINOIS] FED. AID PROJECT				



SECTION THRU WALL

BILL OF MATERIAL

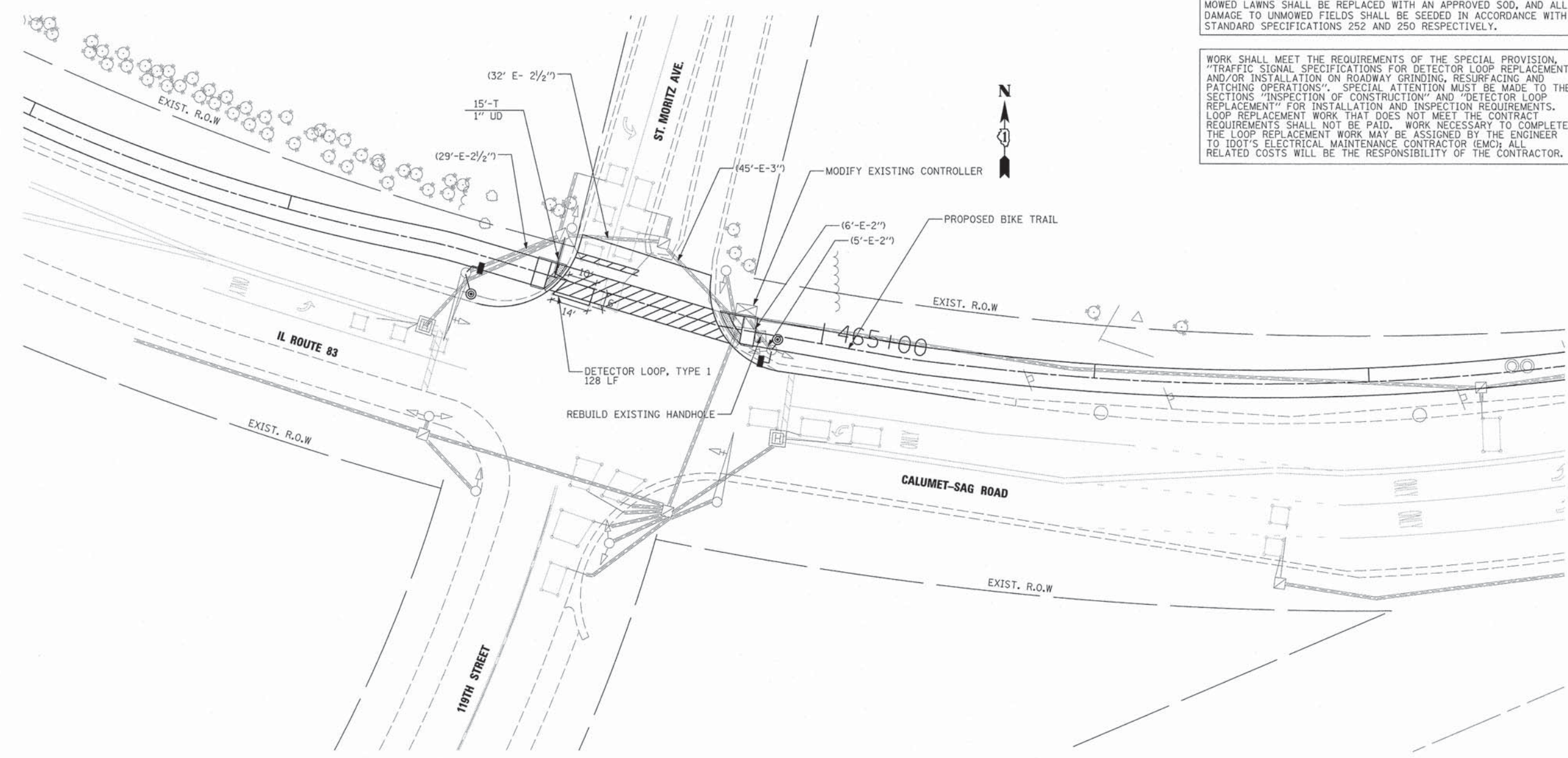
Item	Unit	Qty.
Structure Excavation	Cu. Yd.	100
Geocomposite Wall Drain	Sq. Yd.	11
Granular Backfill for Structures	Cu. Yd.	4
Segmental Concrete Block Wall	Sq. Ft.	341
Pipe Underdrains for Structures 4"	Foot	63



PROFILE GRADE - BIKE TRAIL

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE COST OF THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.



NOTES:

1. ALL PEDESTRIAN SIGNAL HEADS TO BE L.E.D. (LIGHT EMITTING DIODE).
2. ANY DAMAGE TO THE PROPOSED SIDEWALKS SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST.
3. FOR DETAILS SEE DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS.



FILE NAME = D:\P\calumet\highways_25368779_Cal-SagTrafficSignal\119th\119th\Signal\Signal-81_Route83-signal.dgn



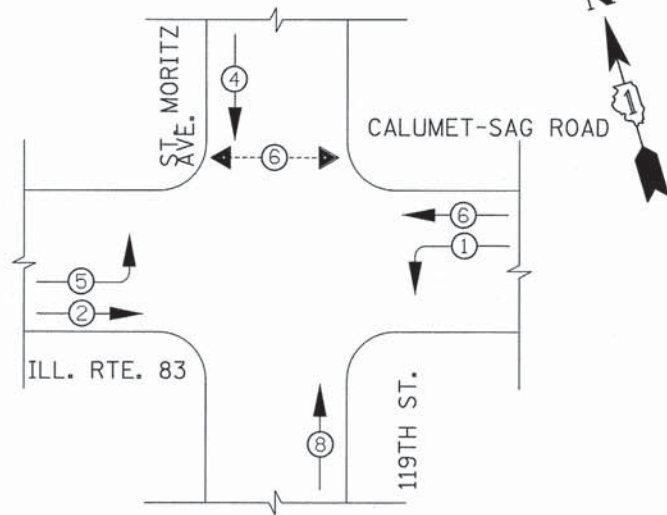
USER NAME = David.Landwehr	DESIGNED - MIA & AB	REVISED -
	DRAWN - MIA & AB	REVISED -
PLOT SCALE = 20.0000 +/- IN.	CHECKED - DDL	REVISED -
PLOT DATE = 10/28/2013 10:45:13 AM	DATE - 10/25/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL PLAN
IL. RTE 83 (CALUMET-SAG RD.) AT ST. MORITZ AVE./119TH ST.
 SCALE: 1"=20' SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
XX	13-P4000-00-BT	COOK	109	40
CONTRACT NO. 63834				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

(NOT TO SCALE)

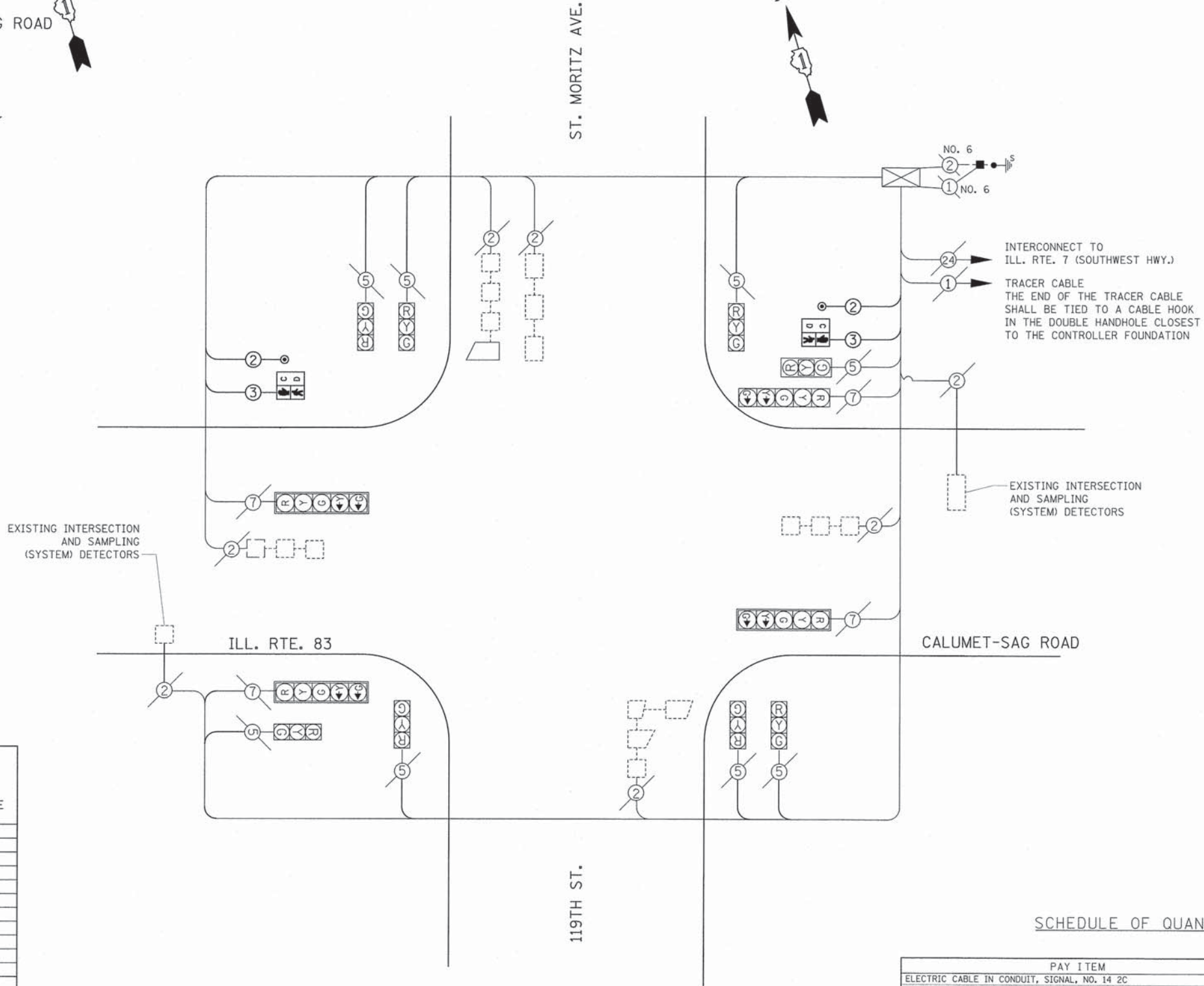
LEGEND

- ← * → DUAL ENTRY PHASE
- ← * → PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE

NOTE:

EQUIPMENT GROUND CONDUCTOR (GREEN COLOR CODED) SPLICE TO FRAME AND COVER IS REQUIRED FOR ALL HANDHOLES OR DOUBLE HANDHOLES THAT CARRY SIGNAL CABLES AND SERVICE CABLES.

CABLE PLAN
(NOT TO SCALE)



SCHEDULE OF QUANTITIES

PAY ITEM	UNITS	QNTY.
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	194
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	215
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
DETECTOR LOOP, TYPE I	FOOT	128
PEDESTRIAN PUSH-BUTTON	EACH	2
MODIFY EXISTING CONTROLLER	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE [INCAND.]	LED	%OPERATION	
SIGNAL (RED)	12	135	17	0.50	810
(YELLOW)	12	135	25	0.25	405
(GREEN)	12	135	15	0.25	405
ARROW	8	135	12	0.10	108
PED. SIGNAL	2	90	25	1.00	50
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	-	84	-	0.50	-
FLASHER LED					0.50
ENERGY COSTS TO:					TOTAL = 1878

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
ENERGY SUPPLY CONTACT: RON RITTER
PHONE: (630) 420-4183
COMPANY: NAPERVILLE DPU-E

FILE NAME: G:\P\A\Highways\25358779_Cal-Sag\Tran\West\2\Roadway\10\Signal\Signal-82-Route83_cable.dwg



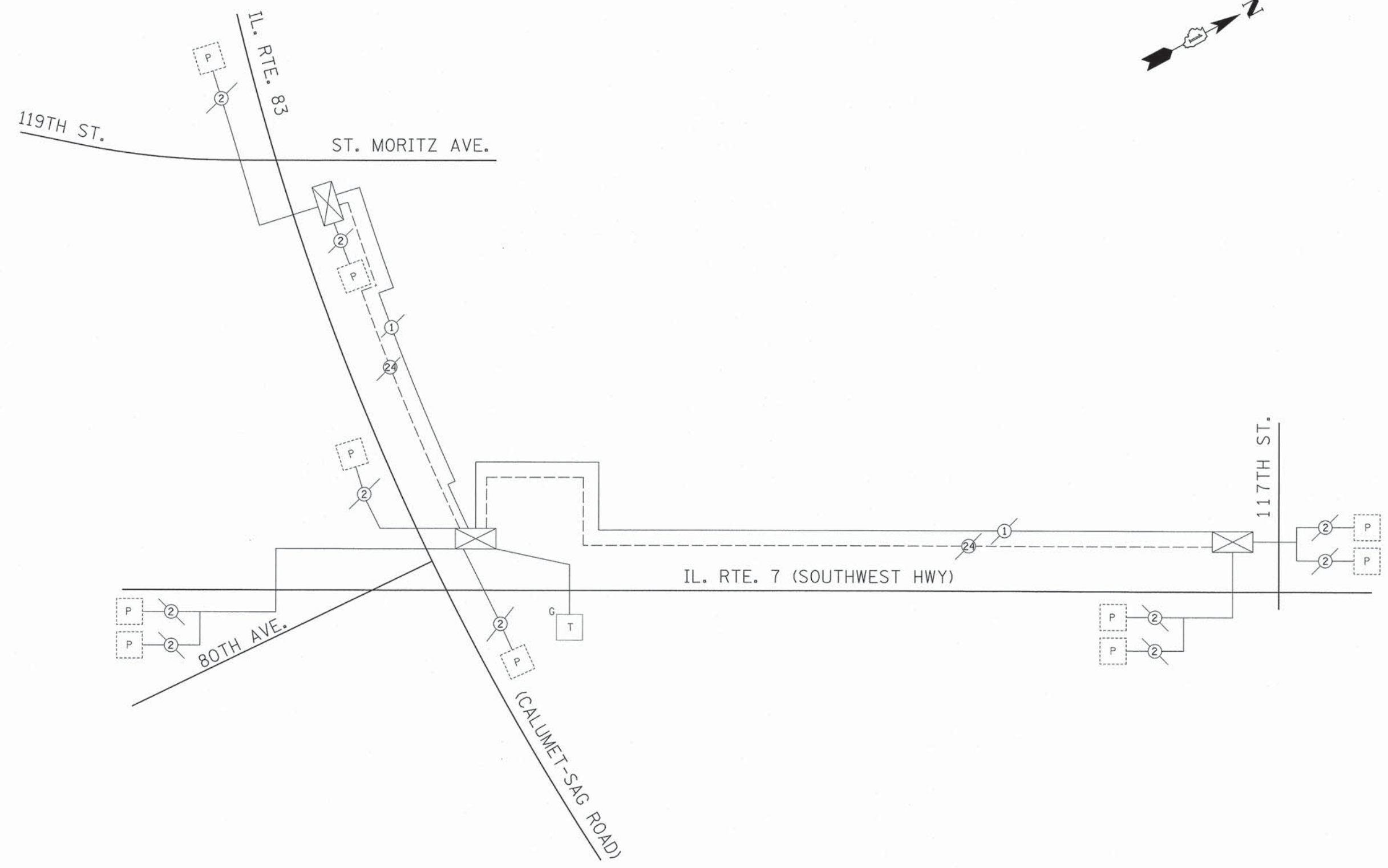
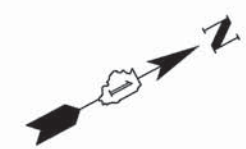
USER NAME = David.Landwehr	DESIGNED - MIA & AB	REVISED -
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PLOT DATE = 10/28/2013 10:27:02 AM	CHECKED - DDL	REVISED -
	DATE - 10/25/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CABLE PLAN AND SCHEDULE OF QUANTITIES			
IL. RTE 83 (CALUMET-SAG ROAD) AT ST. MORITZ AVE./119TH ST.			
SCALE: NTS	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
XX	13-P4000-00-BT	COOK	109	41
CONTRACT NO. 63834				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



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PLOT DATE = 10/28/2013 10:27:35 AM	CHECKED - DDL	REVISED -
	DATE - 10/25/2013	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
INTERCONNECT SCHEMATIC - IL ROUTE 83 AT ST. MORITZ AVE/119TH ST.**

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

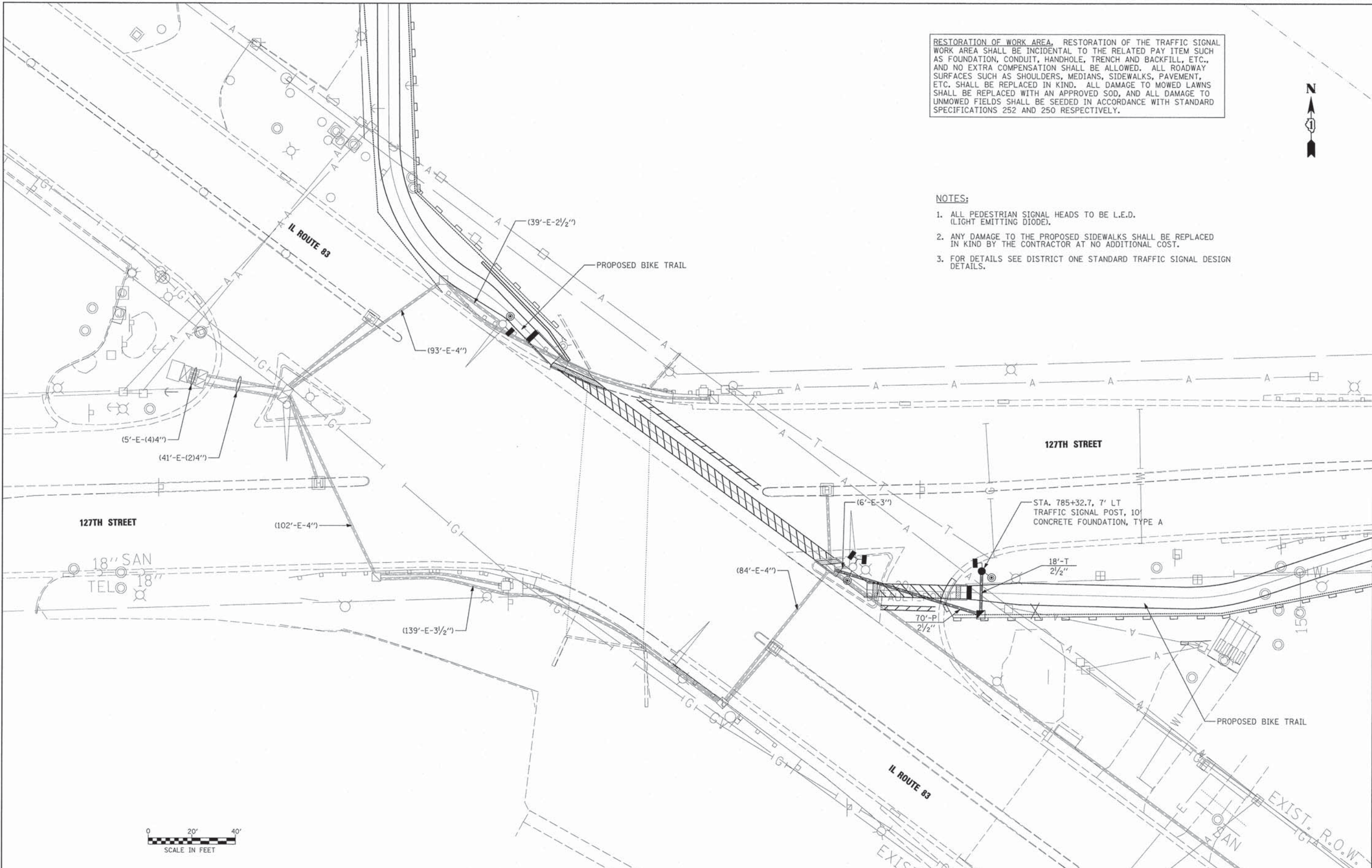
F.A.P. RTE.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
XX	13-P4000-00-BT	COOK	109	42
CONTRACT NO. 63834				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

RESTORATION OF WORK AREA, RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.



NOTES:

1. ALL PEDESTRIAN SIGNAL HEADS TO BE L.E.D. (LIGHT EMITTING DIODE).
2. ANY DAMAGE TO THE PROPOSED SIDEWALKS SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST.
3. FOR DETAILS SEE DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS.



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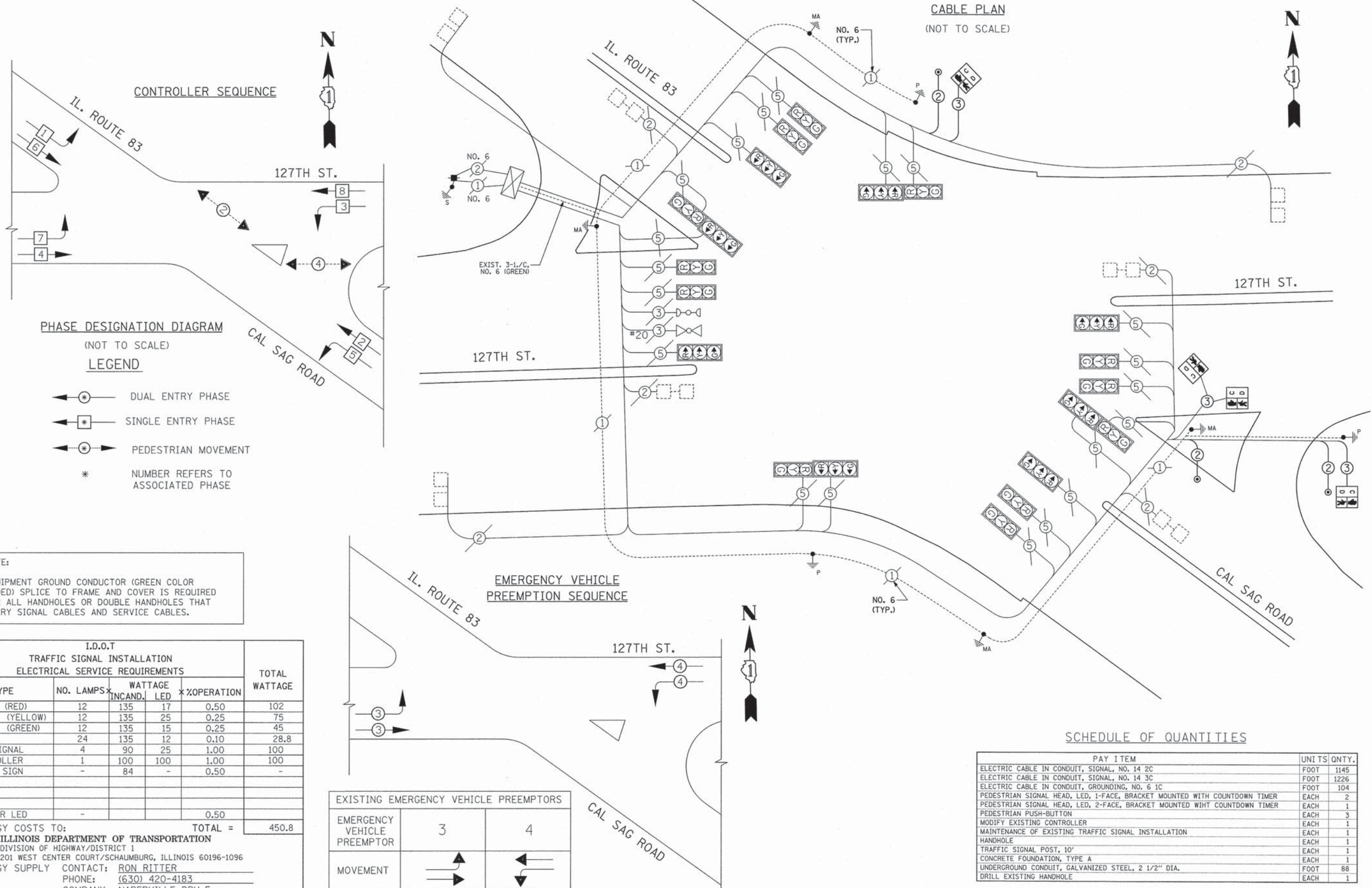


USER NAME = David.Landwehr	DESIGNED - MIA & AB	REVISED -
PLOT SCALE = 20.0000 "/>		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC SIGNAL PLAN	
IL ROUTE 83 AND 127TH STREET	
SCALE: 1"=20'	SHEET NO. 1 OF 6 SHEETS
STA. _____	TO STA. _____

F.A.P. RTE. XX	SECTION 13-P4000-00-BT	CITY COOK	TOTAL SHEETS 109	SHEET NO. 43
CONTRACT NO. 63834				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



CONTROLLER SEQUENCE

PHASE DESIGNATION DIAGRAM

(NOT TO SCALE)
LEGEND

- ← ⊙ ← DUAL ENTRY PHASE
- ← ⊙ ← SINGLE ENTRY PHASE
- ← ⊙ → PEDESTRIAN MOVEMENT
- * NUMBER REFERS TO ASSOCIATED PHASE

NOTE:
 EQUIPMENT GROUND CONDUCTOR (GREEN COLOR CODED) SPLICE TO FRAME AND COVER IS REQUIRED FOR ALL HANDHOLES OR DOUBLE HANDHOLES THAT CARRY SIGNAL CABLES AND SERVICE CABLES.

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	LED	% OPERATION	
SIGNAL (RED)	12	135	17	0.50	102
(YELLOW)	12	135	25	0.25	75
(GREEN)	12	135	15	0.25	45
ARROW	24	135	12	0.10	28.8
PED. SIGNAL	4	90	25	1.00	100
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	-	84	-	0.50	-
FLASHER LED	-	-	-	0.50	-
ENERGY COSTS TO:					TOTAL = 450.8

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY CONTACT: RON RITTER
 PHONE: (630) 420-4183
 COMPANY: NAPERVILLE DPU-E

EXISTING EMERGENCY VEHICLE PREEMPTORS	
EMERGENCY VEHICLE PREEMPTOR	3
MOVEMENT	4

SCHEDULE OF QUANTITIES

PAY ITEM	UNITS	QNTY.
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 2C	FOOT	1145
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	1226
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	104
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	3
MODIFY EXISTING CONTROLLER	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
HANDHOLE	EACH	1
TRAFFIC SIGNAL POST, 10'	EACH	1
CONCRETE FOUNDATION, TYPE A	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2 1/2" DIA.	FOOT	88
DRILL EXISTING HANDHOLE	EACH	1



USER NAME = David.Landwehr	DESIGNED - MIA & AB	REVISED -
PLOT SCALE = 20,0000 "/>		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN AND SCHEDULE OF QUANTITIES
 IL. RTE 83 AND 127TH ST.**

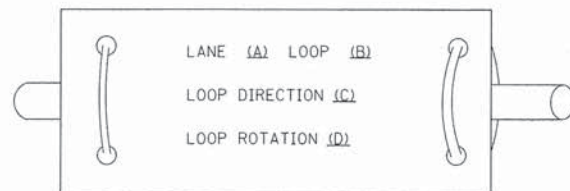
F.A.P. RTE. XX	SECTION 13-P4000-00-BT	CITY COOK	TOTAL SHEETS 109	SHEET NO. 44
CONTRACT NO. 63834				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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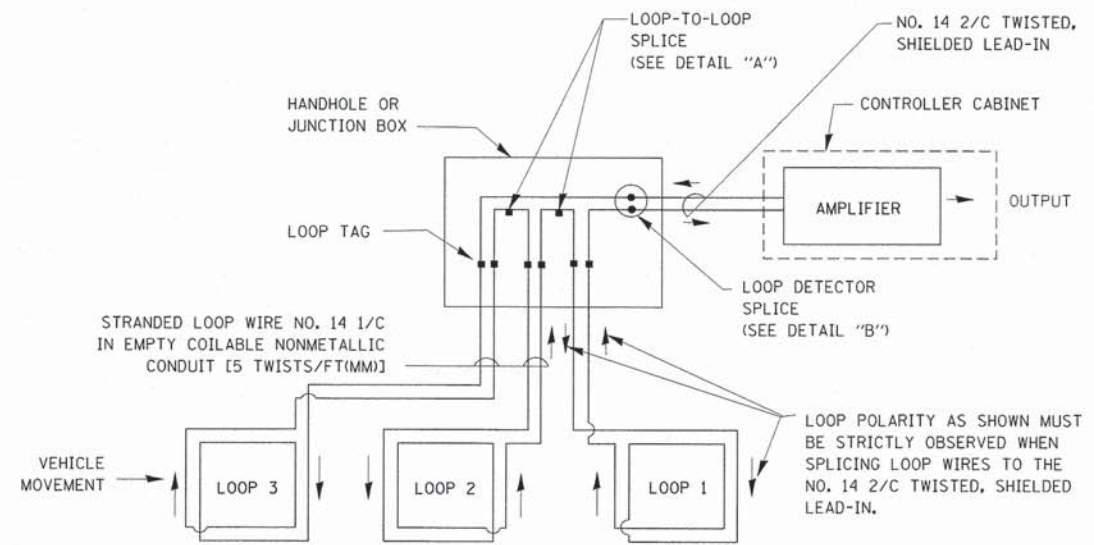
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

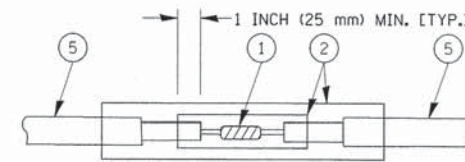


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

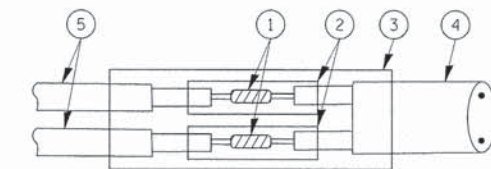


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

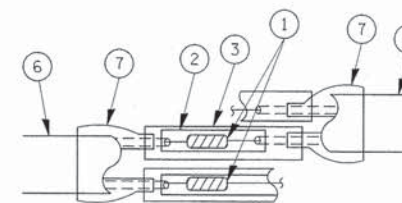


DETAIL "A" LOOP-TO-LOOP SPLICE

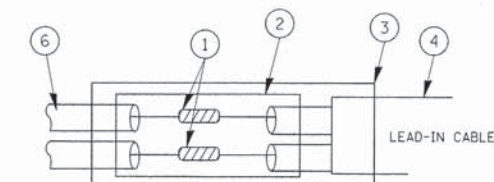


DETAIL "B" LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A" LOOP-TO-LOOP SPLICE



DETAIL "B" LOOP-TO-CONTROLLER SPLICE

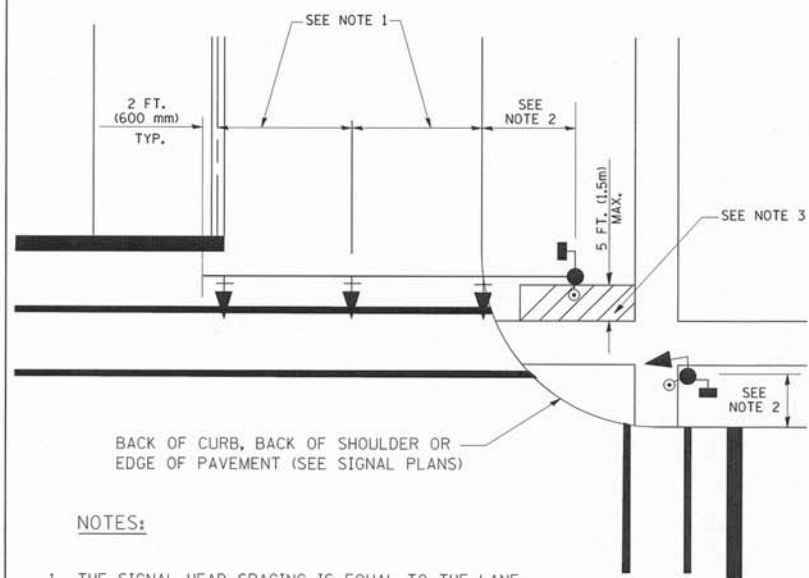
LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- 2 WCSM 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = bauerdl	DESIGNED - DAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pw\work\PKIDOT\BAUERDL\d0188315\td05.dgn		DRAWN - BCK	REVISED -		SCALE: NONE	SHEET NO. 1 OF 6 SHEETS	STA.	13-P4000-00-BT	COOK	109	45
		CHECKED - DAD	REVISED -					TS-05		CONTRACT NO. 63834	
		DATE - 10-28-09	REVISED -					FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT			

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.

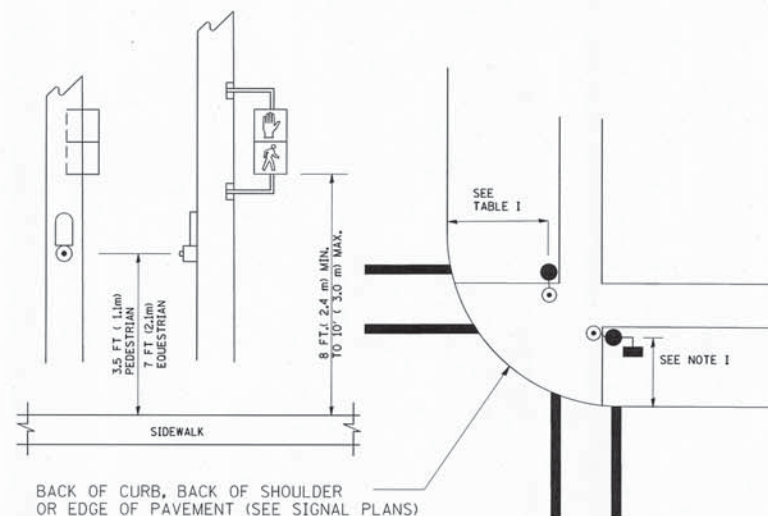


BACK OF CURB, BACK OF SHOULDER OR EDGE OF PAVEMENT (SEE SIGNAL PLANS)

NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST

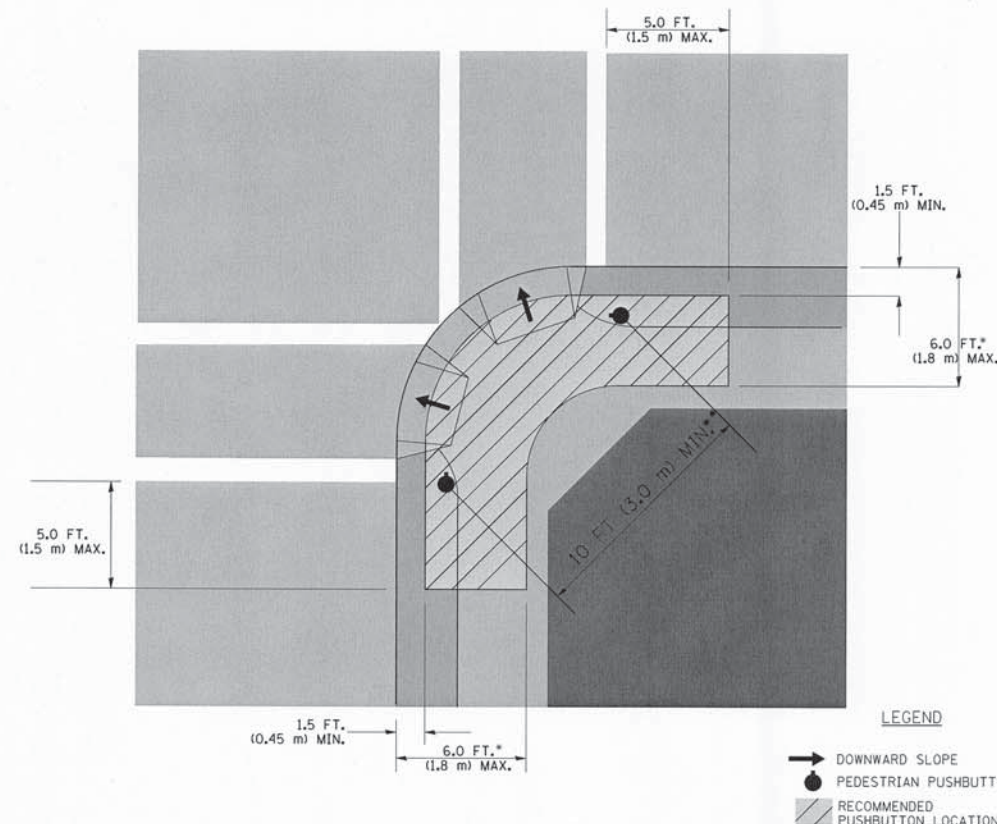


BACK OF CURB, BACK OF SHOULDER OR EDGE OF PAVEMENT (SEE SIGNAL PLANS)

NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPARATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

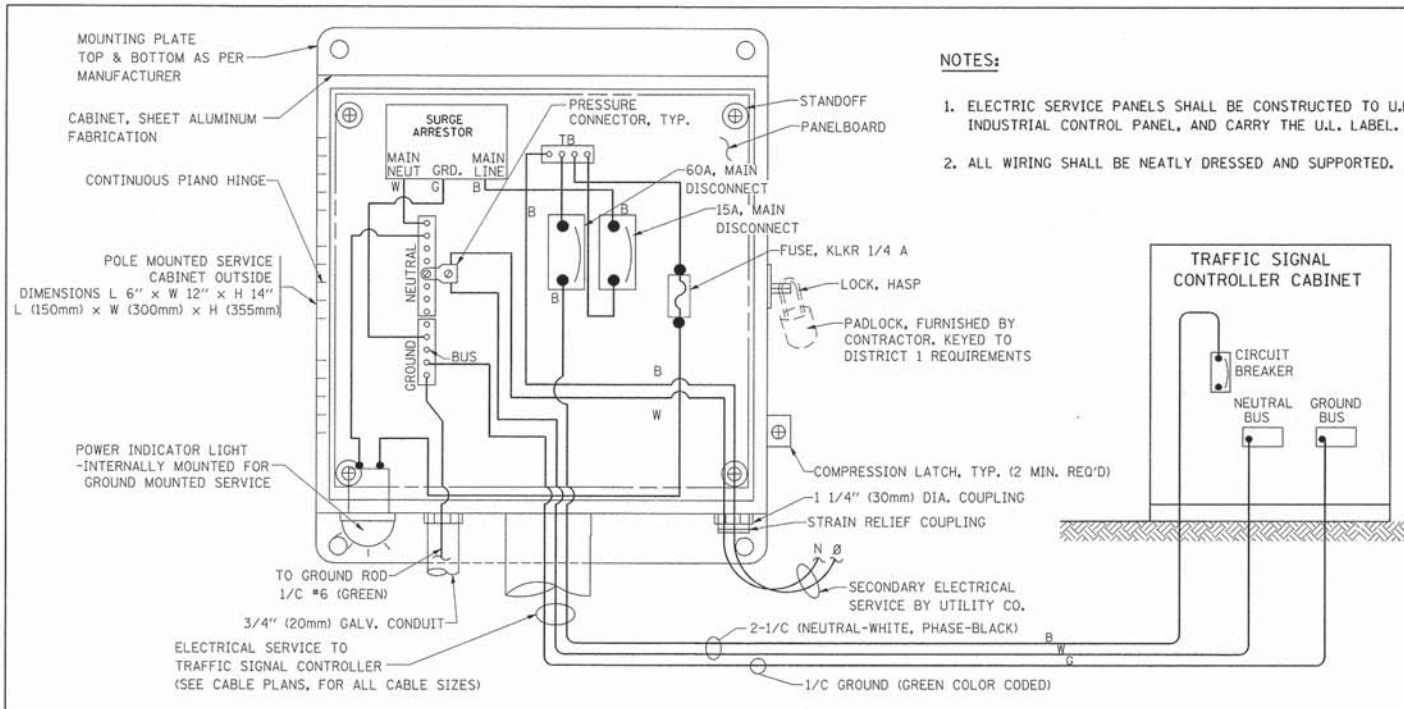
1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

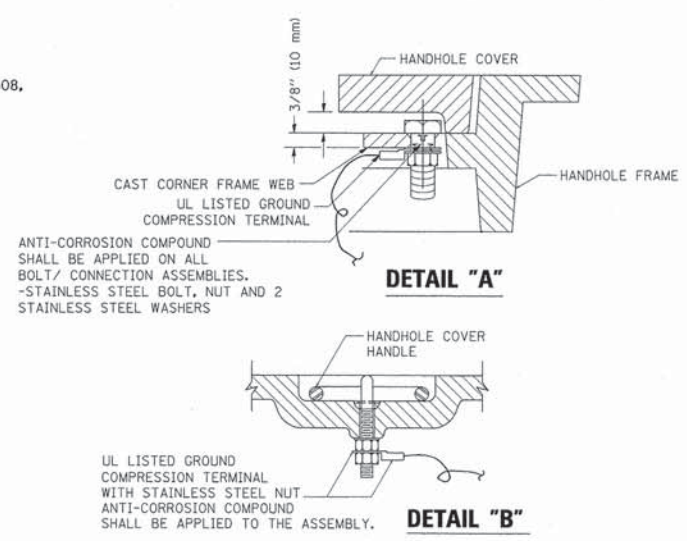
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

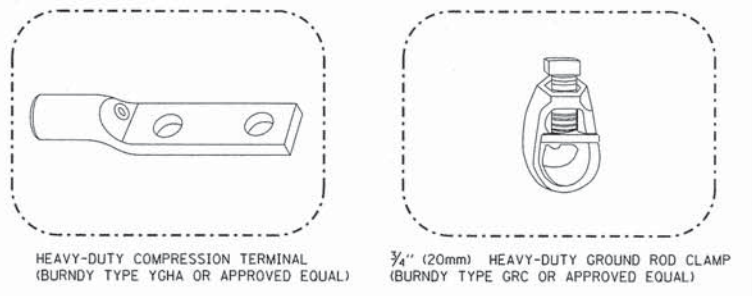


ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)

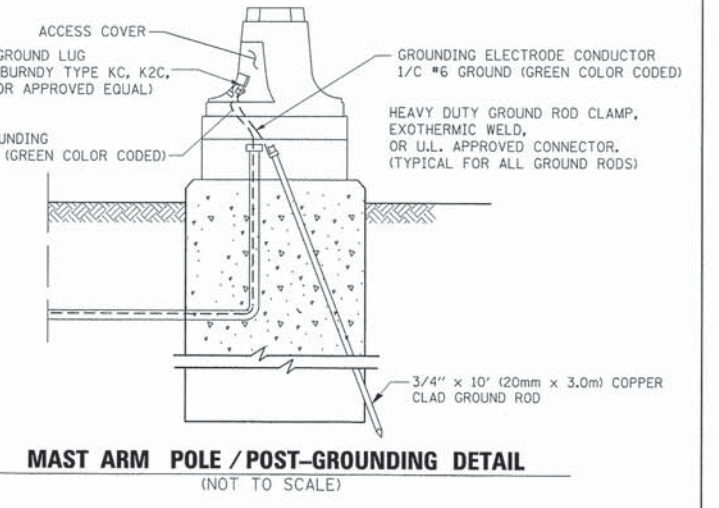
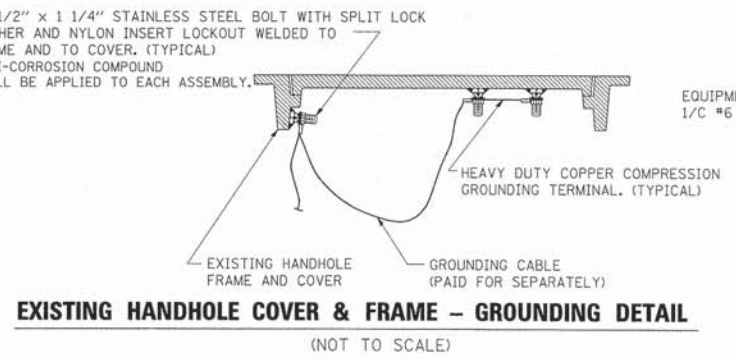
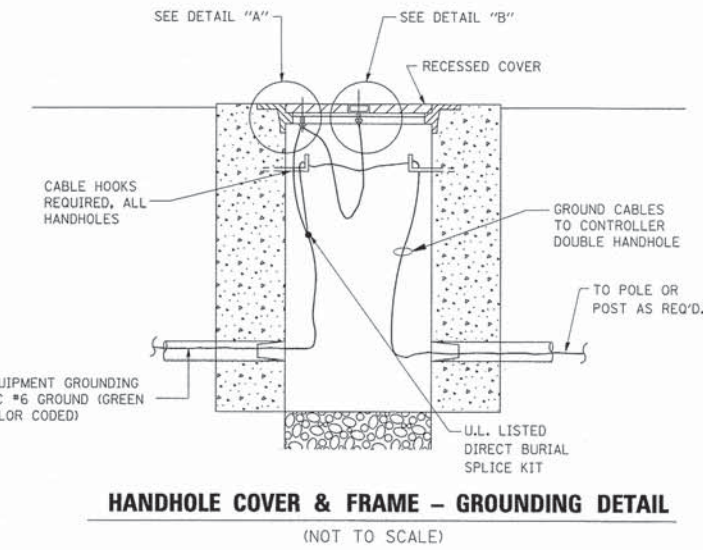
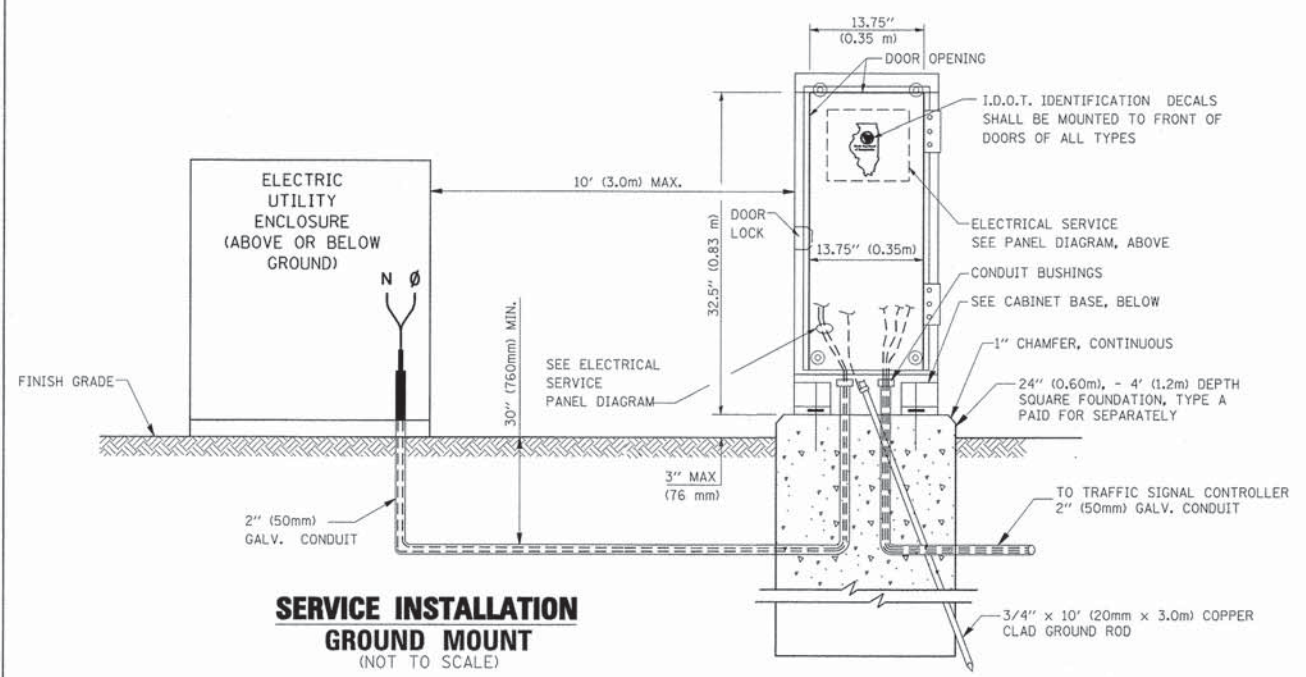


NOTES:
GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)

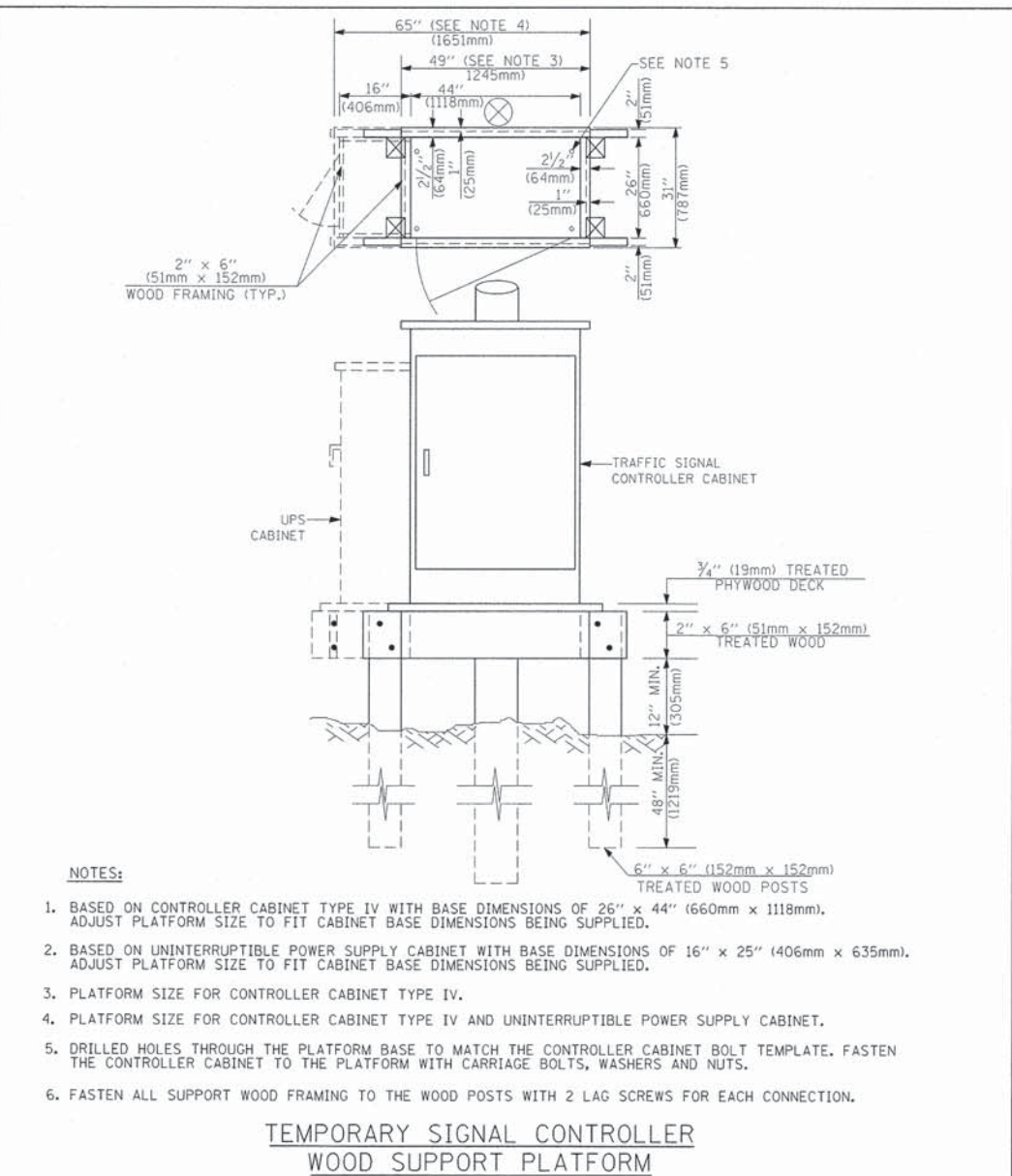
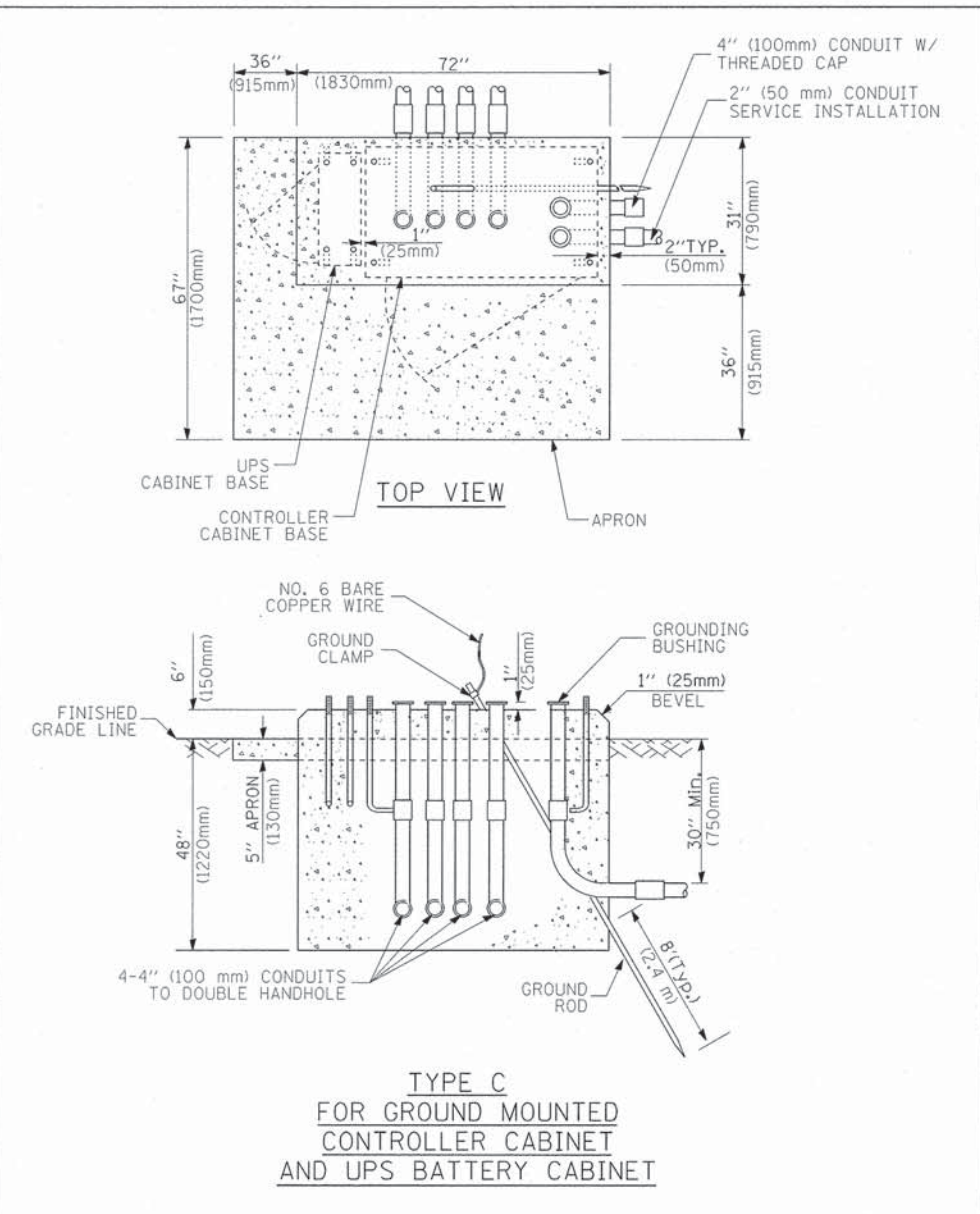
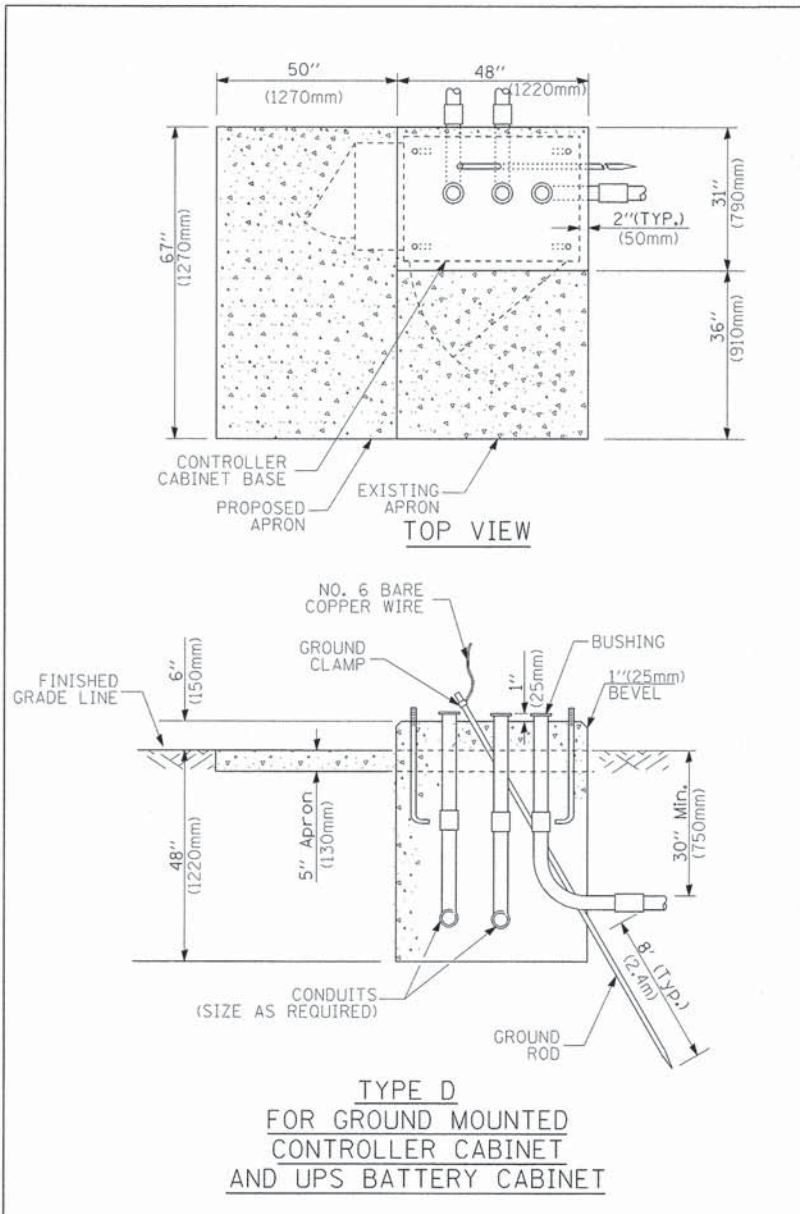
CABINET - BASE BOLT PATTERN
 (NOT TO SCALE)

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		DATE - 10-28-09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET NO. 3 OF 6 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-P4000-00-BT	COOK	109	47
TS-05			CONTRACT NO. 63834	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



- NOTES:**
- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 - BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
 - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
 - PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
 - DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
 - FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

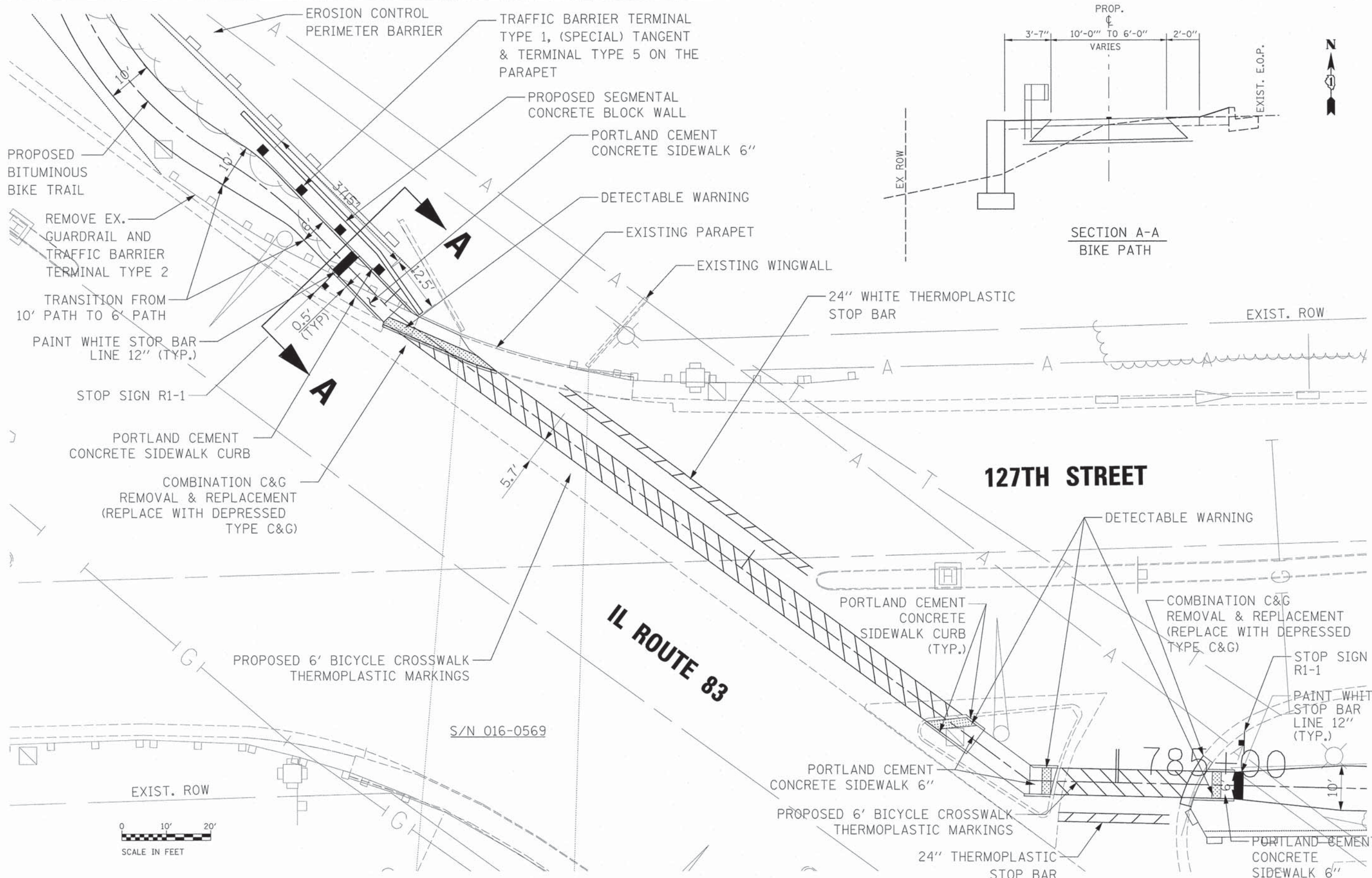
MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 56' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

- NOTES:**
- These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
 - Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
 - Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
 - For mast arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED				
CONTROLLER CABINET				EMERGENCY VEHICLE LIGHT DETECTOR				ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE							
RAILROAD CONTROL CABINET				CONFIRMATION BEACON				COAXIAL CABLE							
COMMUNICATIONS CABINET				HANDHOLE				VENDOR CABLE FOR CAMERA							
MASTER CONTROLLER				HEAVY DUTY HANDHOLE				COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED							
MASTER MASTER CONTROLLER				DOUBLE HANDHOLE				FIBER OPTIC CABLE NO. 62.5/125, MM12F							
UNINTERRUPTIBLE POWER SUPPLY				JUNCTION BOX				FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F							
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT				GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F 5M12F							
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT				TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE				FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)							
STEEL MAST ARM ASSEMBLY AND POLE				COMMON TRENCH				GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE							
ALUMINUM MAST ARM ASSEMBLY AND POLE				COILABLE NONMETALLIC CONDUIT (EMPTY)				CONTROLLER CABINET AND FOUNDATION TO BE REMOVED							
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE				SYSTEM ITEM				STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED							
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA				INTERSECTION ITEM				ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED							
SIGNAL POST				REMOVE ITEM				STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED							
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM				RELOCATE ITEM				SIGNAL POST AND FOUNDATION TO BE REMOVED							
GUY WIRE				ABANDON ITEM				INTERSECTION & SAMPLING (SYSTEM) DETECTOR							
SIGNAL HEAD				12" (300mm) TRAFFIC SIGNAL SECTION				SAMPLING (SYSTEM) DETECTOR							
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)				12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE				EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR							
SIGNAL HEAD WITH BACKPLATE				SIGNAL FACE				EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR							
SIGNAL HEAD OPTICALLY PROGRAMMED				SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR							
FLASHER INSTALLATION (S DENOTES SOLAR POWER)				12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL				PREFORMED SAMPLING (SYSTEM) DETECTOR							
PEDESTRIAN SIGNAL HEAD				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				RAILROAD SYMBOLS							
PEDESTRIAN PUSHBUTTON DETECTOR				12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID				EXISTING		PROPOSED					
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR				PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER				RAILROAD CONTROL CABINET							
ILLUMINATED SIGN "NO LEFT TURN"				RADIO INTERCONNECT				RAILROAD CANTILEVER MAST ARM							
ILLUMINATED SIGN "NO RIGHT TURN"				RADIO REPEATER				FLASHING SIGNAL							
DETECTOR LOOP, TYPE I				DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED				CROSSING GATE							
PREFORMED DETECTOR LOOP				GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)				CROSSBUCK							
MICROWAVE VEHICLE SENSOR															
VIDEO DETECTION CAMERA															
VIDEO DETECTION ZONE															
PAN, TILT, ZOOM CAMERA															
WIRELESS DETECTOR SENSOR															
WIRELESS ACCESS POINT															



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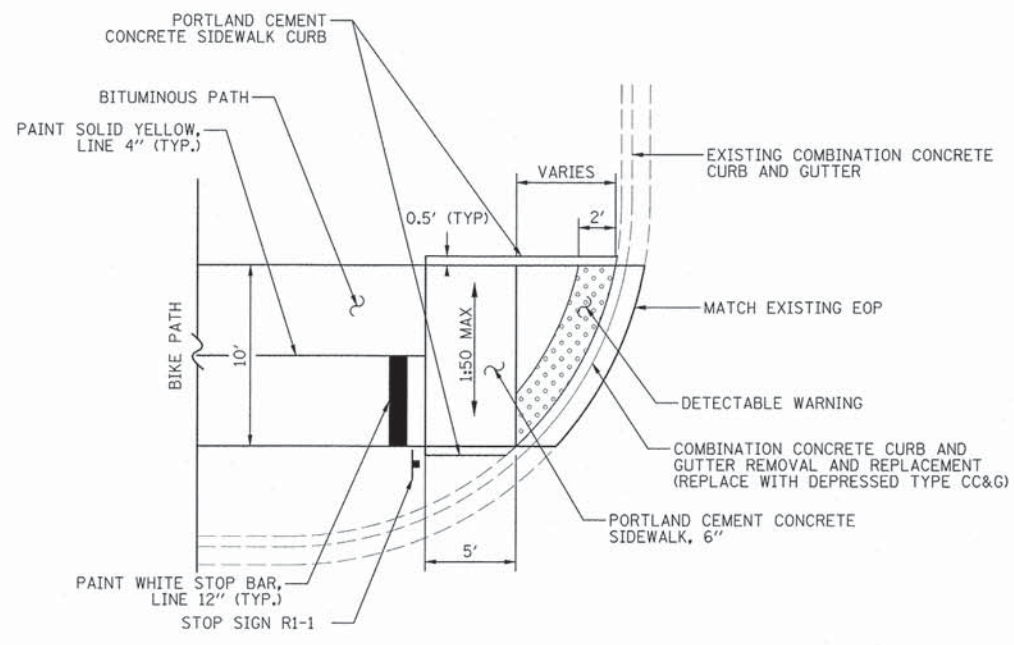


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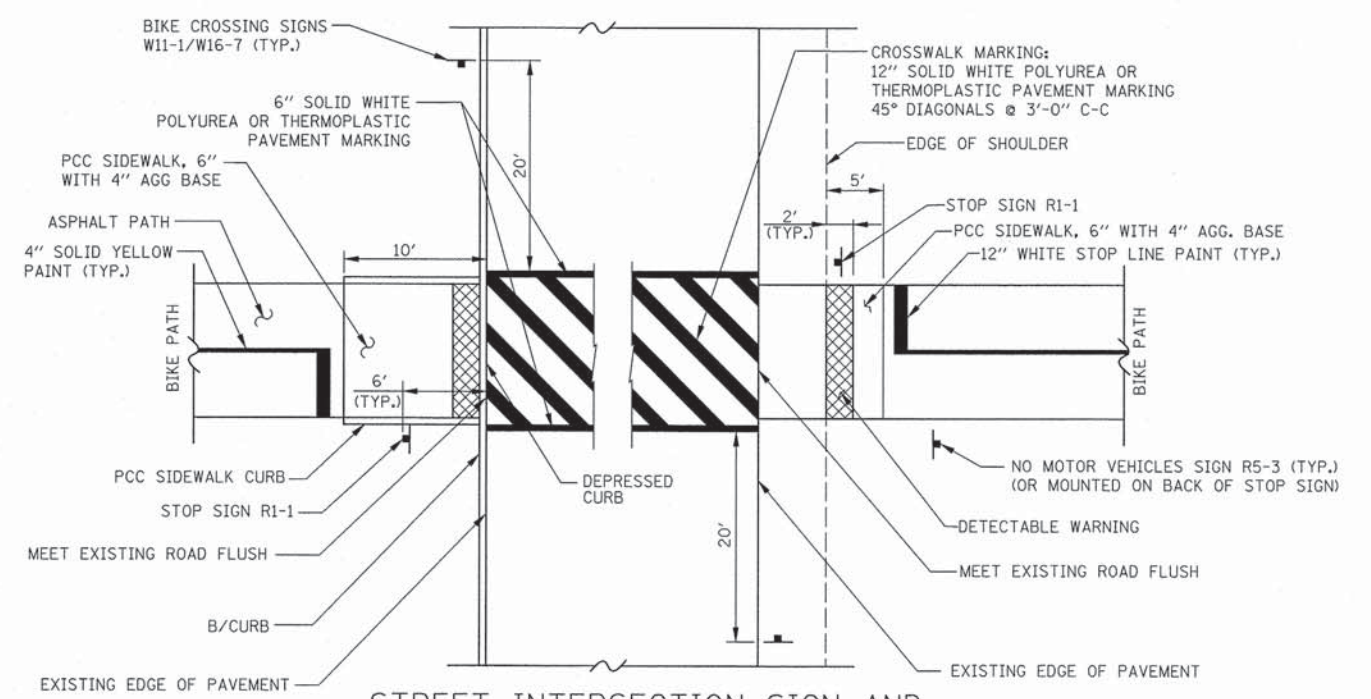
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK) 127th INTERSECTION DETAIL			
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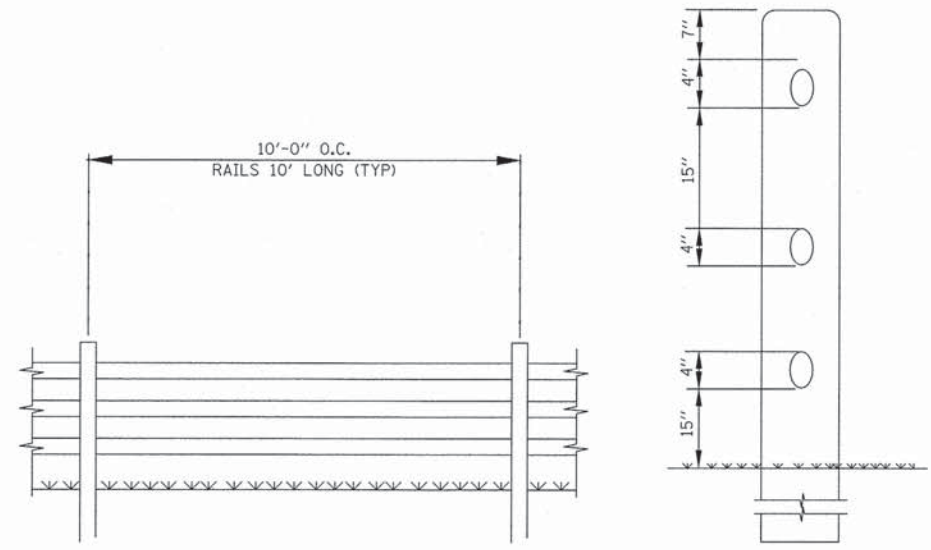
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CONTRACT NO. 63834				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



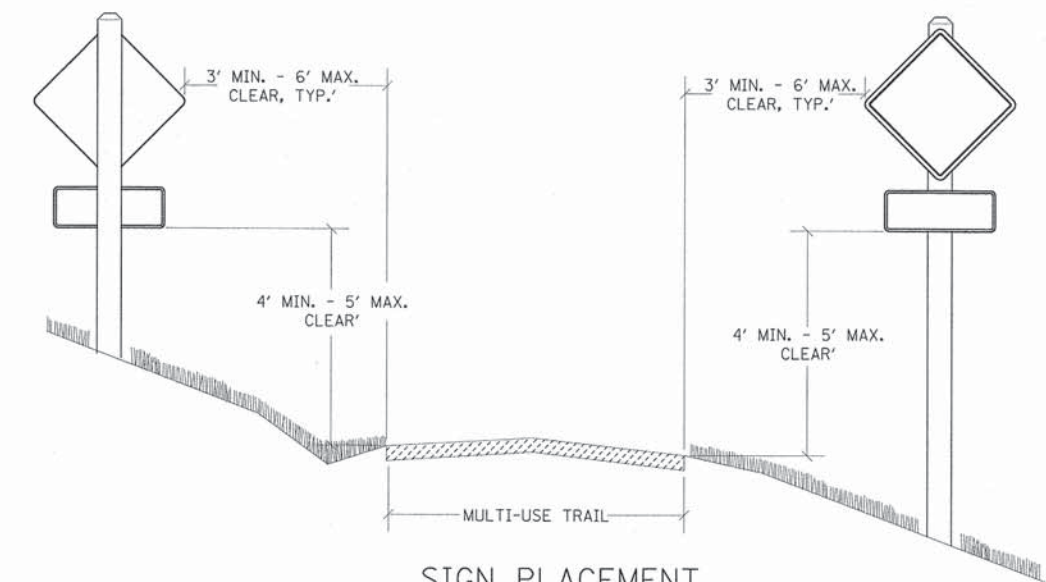
PORTLAND CEMENT CONCRETE CURB RAMP WITH DETECTABLE WARNING DETAIL
N.T.S.



STREET INTERSECTION SIGN AND PAVEMENT MARKING DETAIL
N.T.S.



RUSTIC RAIL FENCE DETAIL



SIGN PLACEMENT
N.T.S.

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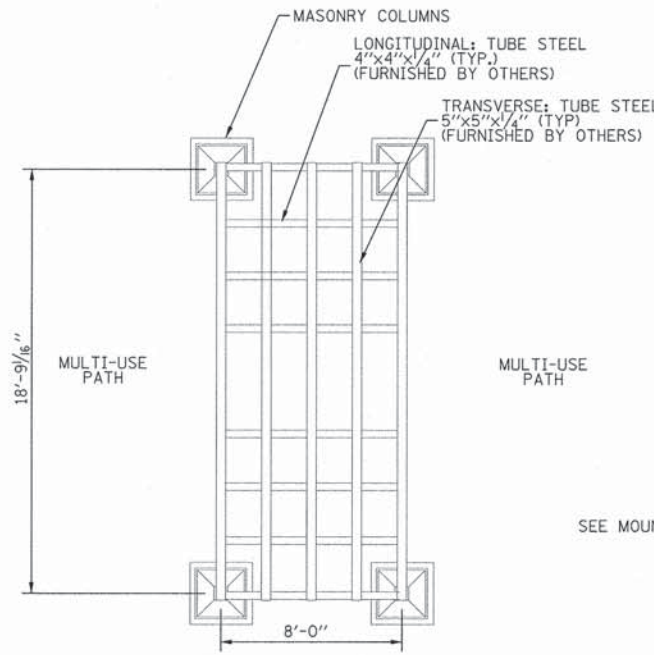
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
MISCELLANEOUS DETAILS**

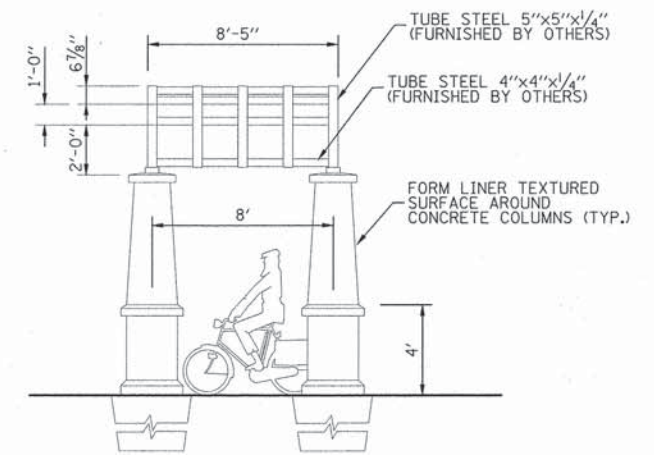
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F.A.P. RTE.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
XX	13-P4000-00-BT	COOK	109	52
CONTRACT NO. 63834				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

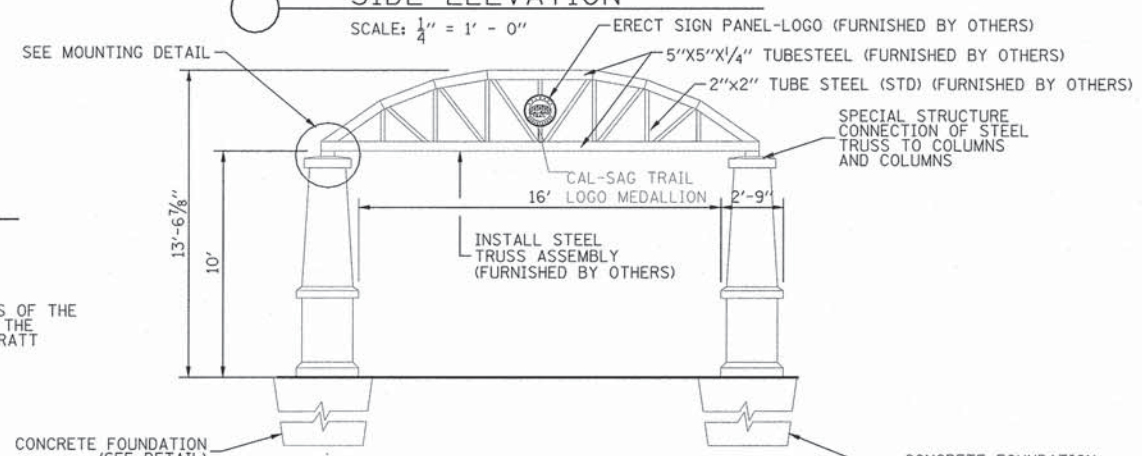


PLAN VIEW
SCALE: 1/4" = 1' - 0"

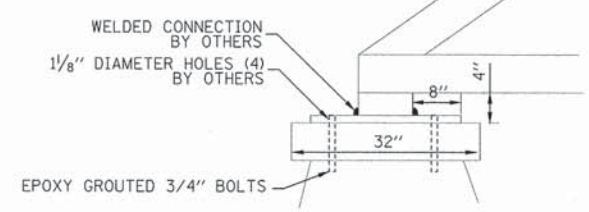
NOTES:
THIS SCHEME CELEBRATES THE ICONIC STEEL TRUSS BRIDGES OF THE CALUMET-SAG CHANNEL. THE COLUMNAR ELEMENTS SYMBOLIZE THE ABUTMENTS AND THE LATTICE STRUCTURES MIMIC THE LOW PRATT TRUSS - FULL SLOPE BRIDGE DESIGN.
STEEL TRUSS TO BE ASSEMBLY BY OTHERS PRIOR TO INSTALLATION. ALL CONNECTIONS TO BE WELDED, EXCEPT WHERE SHOWN.



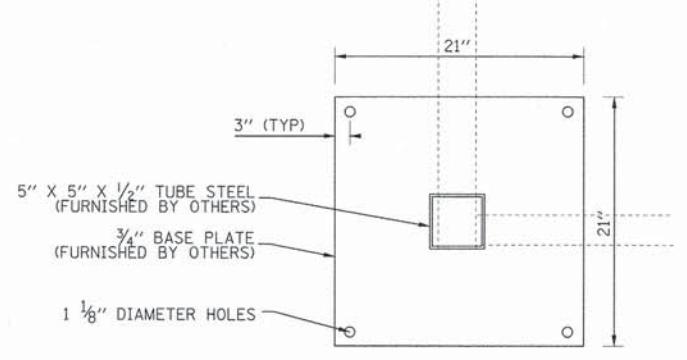
SIDE ELEVATION
SCALE: 1/4" = 1' - 0"



FRONT / REAR ELEVATION
SCALE: 1/4" = 1' - 0"



MOUNTING DETAIL
NOT TO SCALE



BASE PLATE PLAN VIEW
NOT TO SCALE

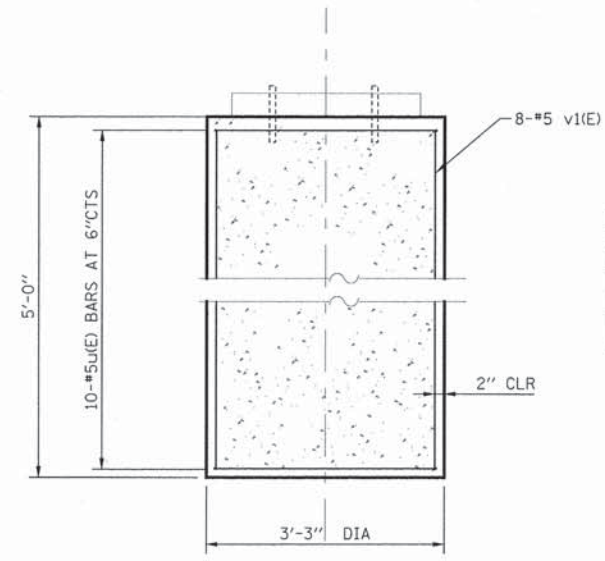
SIZE OF LETTERS SHALL BE 1" MINIMUM (UPPER CASE)



STAMPED GALVANIZED STEEL (ONE SIDE STAMPED)

DECORATIVE GATEWAY ELEMENT LOGO DETAIL
NOT TO SCALE FURNISHED BY OTHERS

DECORATIVE GATEWAY ELEMENT



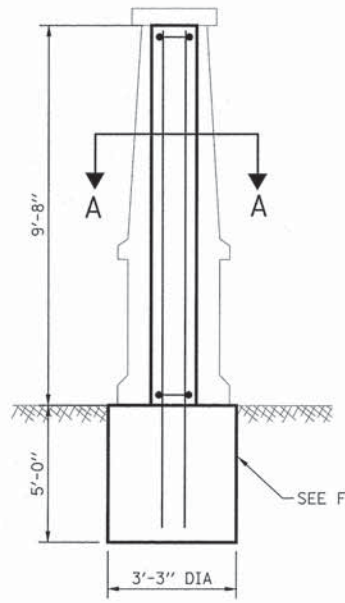
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
v1(E)	8	#5	4'-8"	—
u1(E)	10	#5	12'-0"	○
CONCRETE STRUCTURE			CU. YD.	1.5
STRUCTURE EXCAVATION			CU. YD.	4.0
REINFORCEMENT BARS, EPOXY COATED			POUND	170

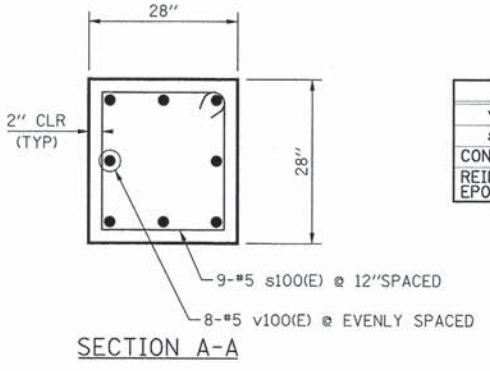


u1 (E) BAR

DECORATIVE GATEWAY ELEMENT & GATEWAY MONUMENT SIGN COMPLETE FOUNDATION DETAILS
NOT TO SCALE



ELEVATION



SECTION A-A

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
v100(E)	8	#5	14'-4"	—
s100(E)	9	#5	8'-6"	□
CONCRETE STRUCTURE			CU. YD.	2.0
REINFORCEMENT BARS, EPOXY COATED			POUND	200

DECORATIVE GATEWAY ELEMENT CONCRETE COLUMN DETAILS
NOT TO SCALE

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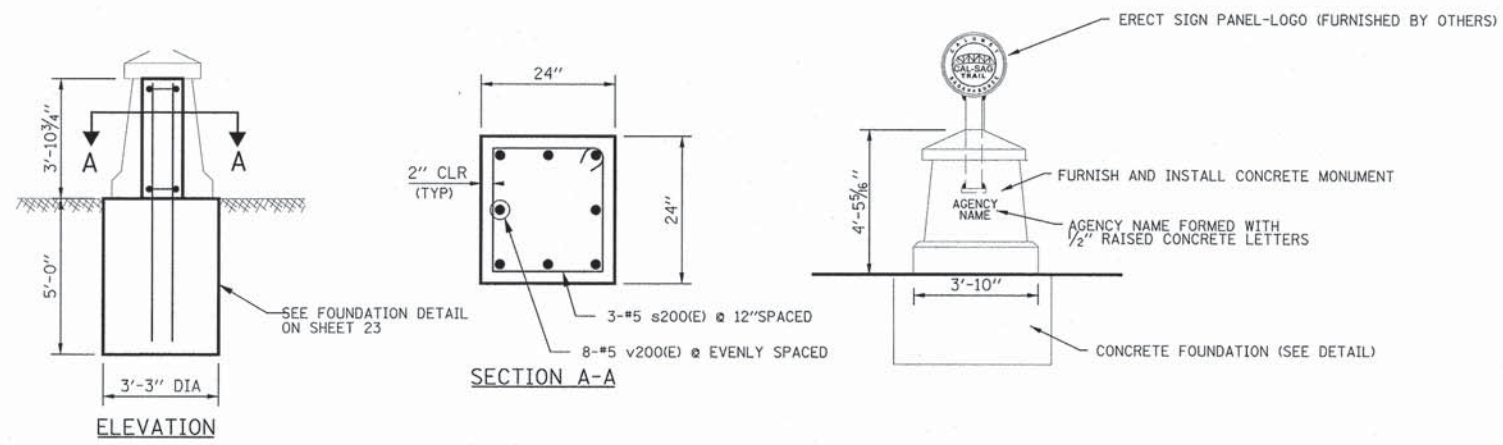
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
DECORATIVE GATEWAY ELEMENT & MONUMENT DETAILS

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE. XX	SECTION 13-P4000-00-BT	CITY COOK	TOTAL SHEETS 109	SHEET NO. 53
CONTRACT NO. 63834				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



BILL OF MATERIAL

BAR	NO.	SIZE	LENGHT	SHAPE
v200(E)	8	#5	8'-7"	—
s200(E)	3	#5	7'-2"	□
CONCRETE STRUCTURE			CU. YD.	0.6
REINFORCEMENT BARS, EPOXY COATED			POUND	100

**GATEWAY MONUMENT SIGN COMPLETE
CONCRETE COLUMN DETAILS**
NOT TO SCALE


**FRONT / REAR
ELEVATION**
N.T.S.
GATEWAY MONUMENT SIGN COMPLETE

FILE NAME = G:\PalosHeights\20388779_Cal-SagTrail\Misc\PH2\Roadway\Shop\Details\15\23-Miscel\Concrete\Detail.dgn



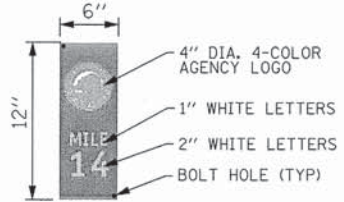
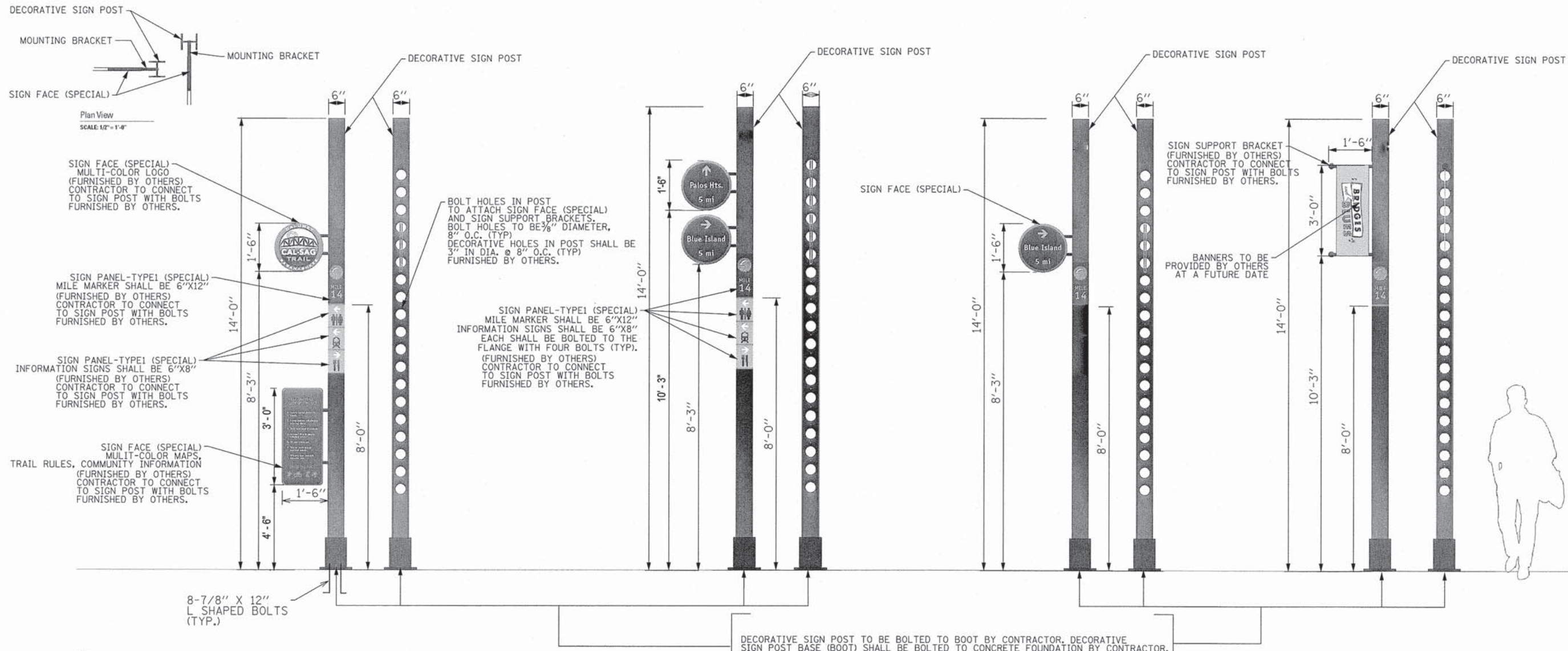
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

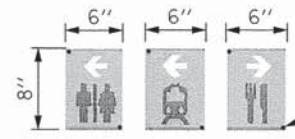
**CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
MISCELLANEOUS DETAILS**

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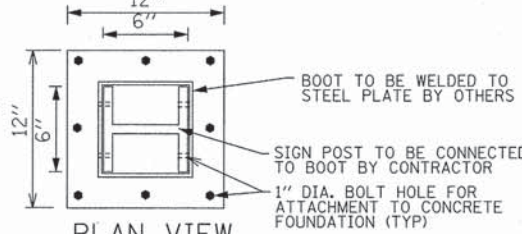
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FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



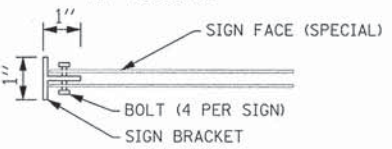
MILE MARKER
SIGN PANEL- TYPE 1
NOT TO SCALE



4-COLOR INFORMATION
SIGN PANEL- TYPE 1
NOT TO SCALE

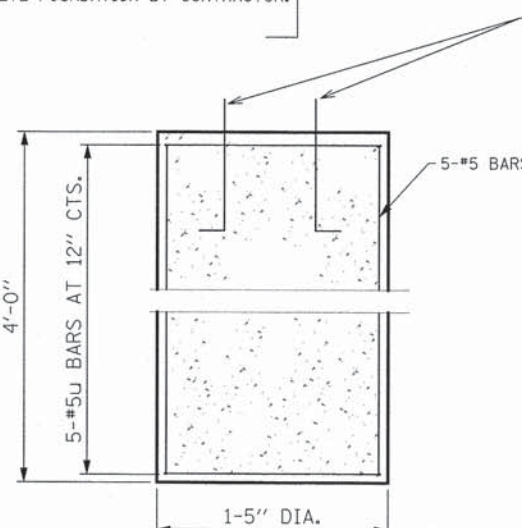


PLAN VIEW
BASE PLATE DETAIL
NOT TO SCALE



PLAN VIEW
MOUNTING BRACKET DETAIL
NOT TO SCALE

NOTE:
DECORATIVE SIGN POSTS AND ALL ASSOCIATED AND APPLICABLE SIGN PANEL-LOGOS, SIGN PANELS, SIGN SUPPORT BRACKETS, MOUNTING BRACKETS, AND BASE PLATES ARE FURNISHED BY OTHERS FOR THIS CONTRACT.



MONUMENT TYPE A FOUNDATION DETAIL
FOR DECORATIVE SIGN AND POST (DIRECT POST)
NOT TO SCALE

BILL OF MATERIAL

BAR	NO.	SIZE	LENGHT	SHAPE
v2(E)	6	#5	3'-8"	—
u2(E)	8	#5	5'-2"	○
CONCRETE STRUCTURE			Cu. Yd.	0.2
STRUCTURE EXCAVATION			Cu. Yd.	1.4
REINFORCEMENT BARS, EPOXY COATED			POUND	70



FILE NAME = D:\A\olch\highlights_25368778_Cal-Sag Trail\Map\21\Roadway\Map\Map\Drawings\Detail\Decorative Sign Post.dwg

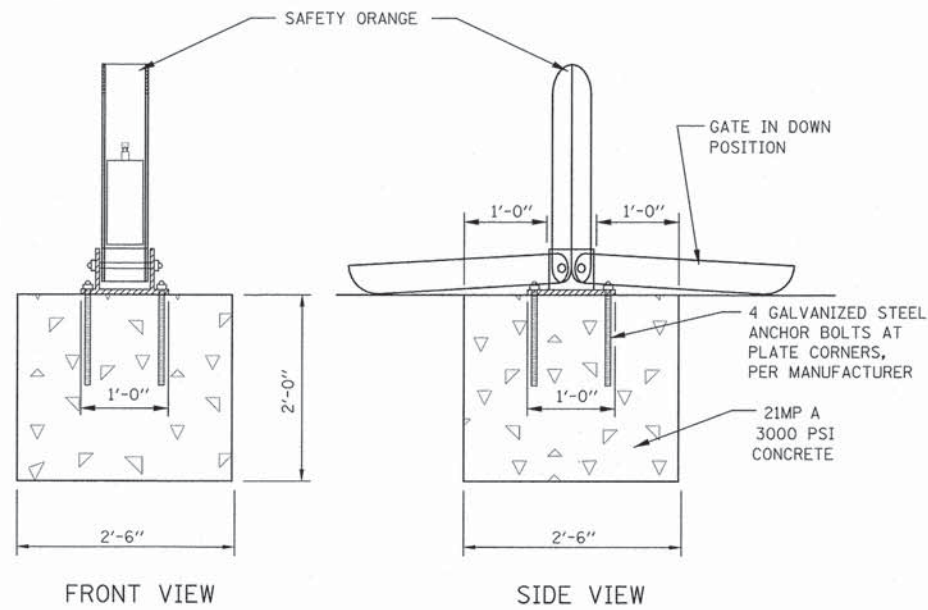


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

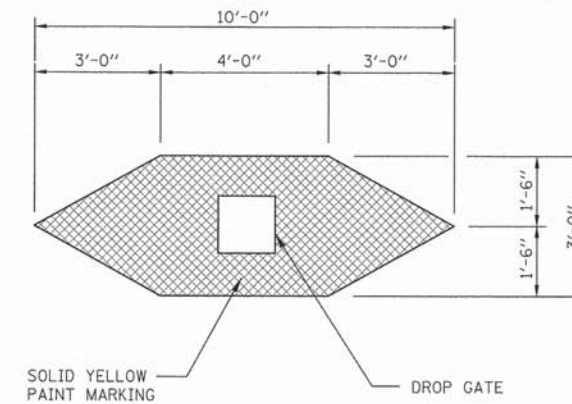
CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK) DECORATIVE SIGN AND POST ASSEMBLY DETAILS			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE. XX	SECTION 13-P4000-00-BT	CITY COOK	TOTAL SHEETS 109	SHEET NO. 55
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				CONTRACT NO. 63834



NOTE:
 DROP GATE ASSEMBLIES ARE FURNISHED BY THE CONTRACTOR
 POSITION DROP GATE 13' BACK FROM EDGE OF ROAD.

DROP GATE INSTALLATION DETAIL
 N.T.S.



DROP GATE MARKING DETAIL
 N.T.S.

FILE NAME = G:\P\A\Highways\25368779_Cal_Sag Trail\Map\Drawings\Miscellaneous\Drawings.dgn



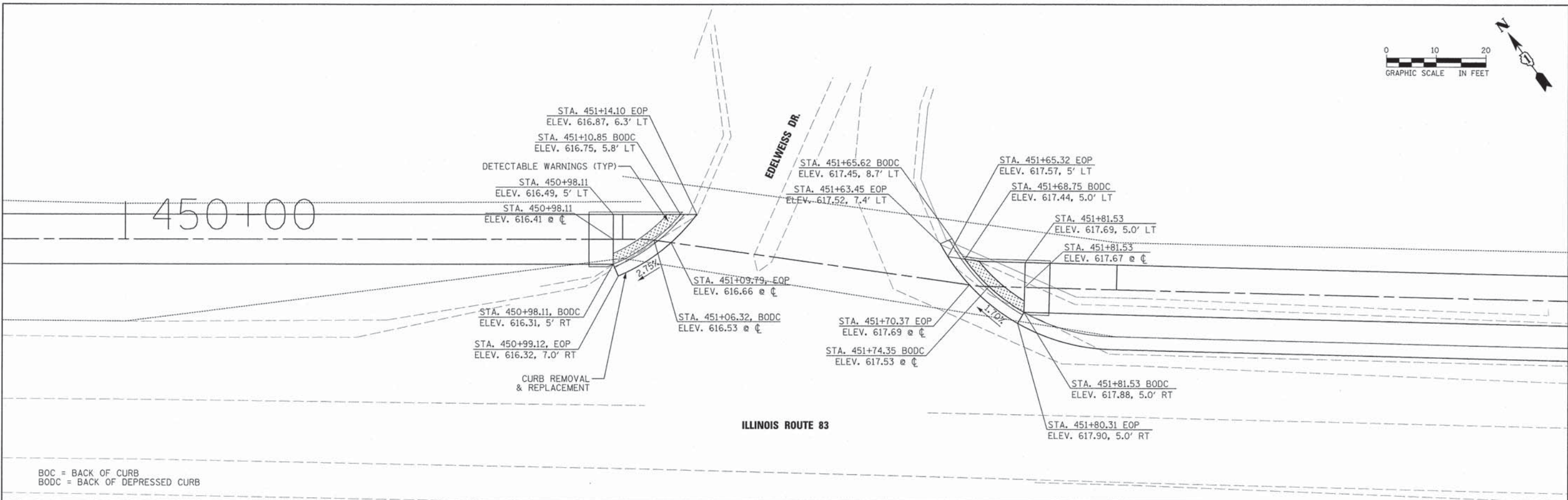
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

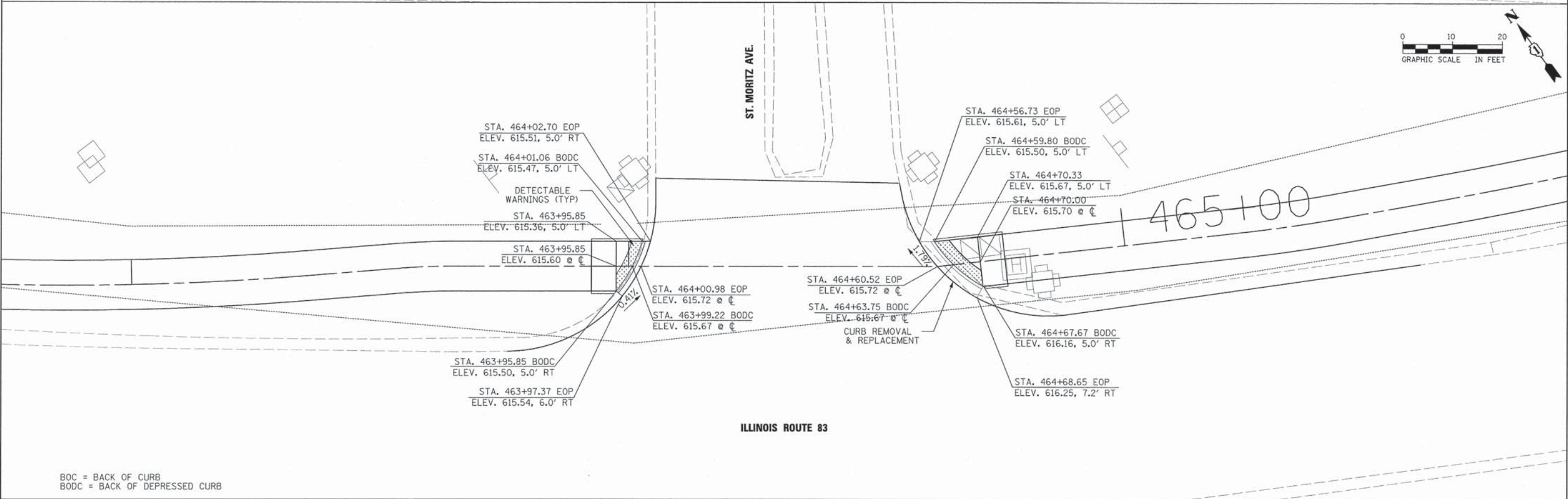
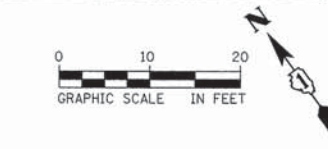
**CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
 MISCELLANEOUS DETAILS**

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

F.A.P. RTE.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
XX	13-P4000-00-BT	COOK	109	56
CONTRACT NO. 63834				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



BOC = BACK OF CURB
BODC = BACK OF DEPRESSED CURB



BOC = BACK OF CURB
BODC = BACK OF DEPRESSED CURB

FILE NAME: D:\Palos\heights_20358779_Cal-Sag Trail\west\2\Roadway\A\1\1\1\General\Sidewalk Ramp detail.dgn



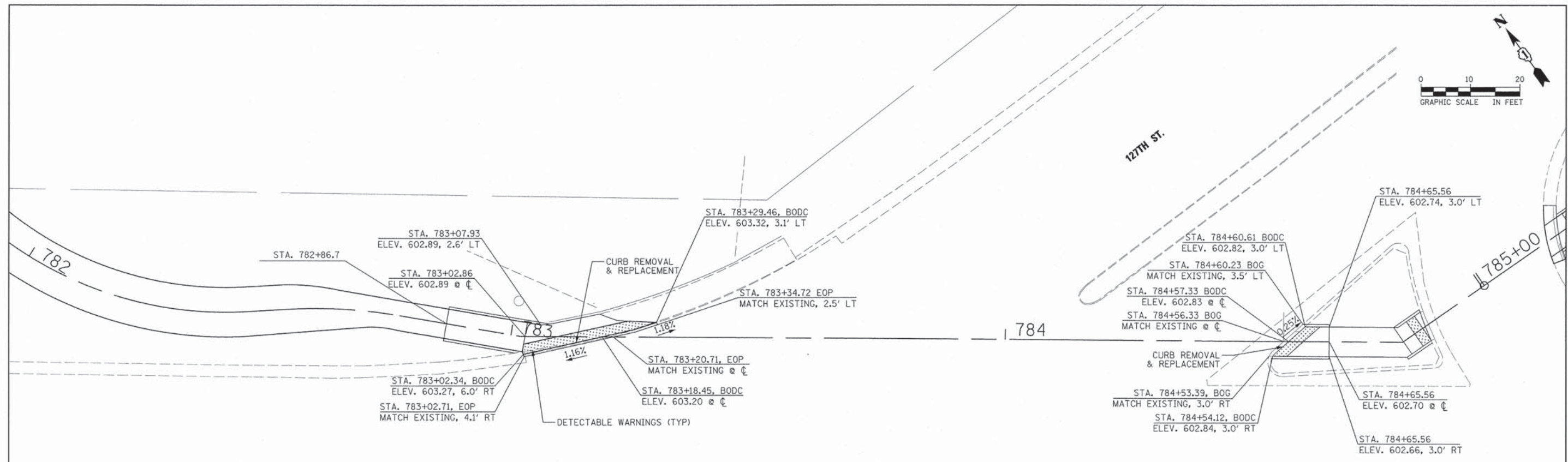
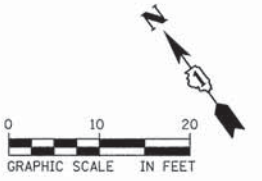
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

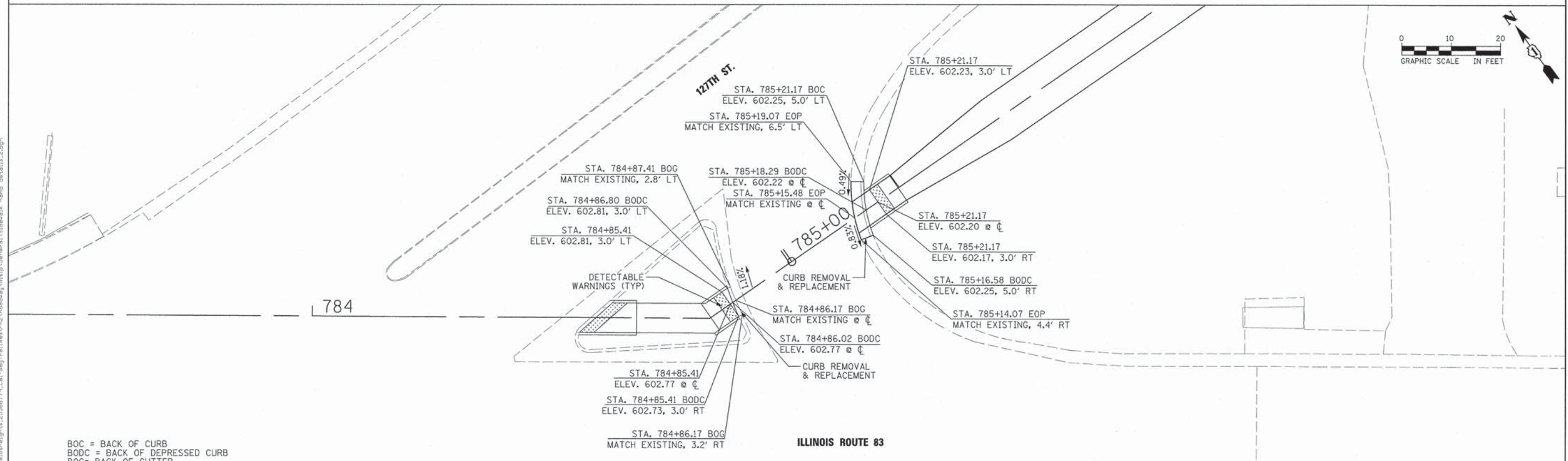
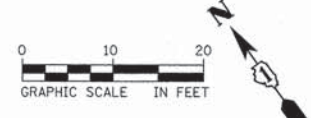
CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
SIDEWALK / PAVEMENT GRADING DETAILS

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
XX	13-P4000-00-BT	COOK	109	57
CONTRACT NO. 63834				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



ILLINOIS ROUTE 83



ILLINOIS ROUTE 83

BOC = BACK OF CURB
 BODC = BACK OF DEPRESSED CURB
 BOG = BACK OF GUTTER

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

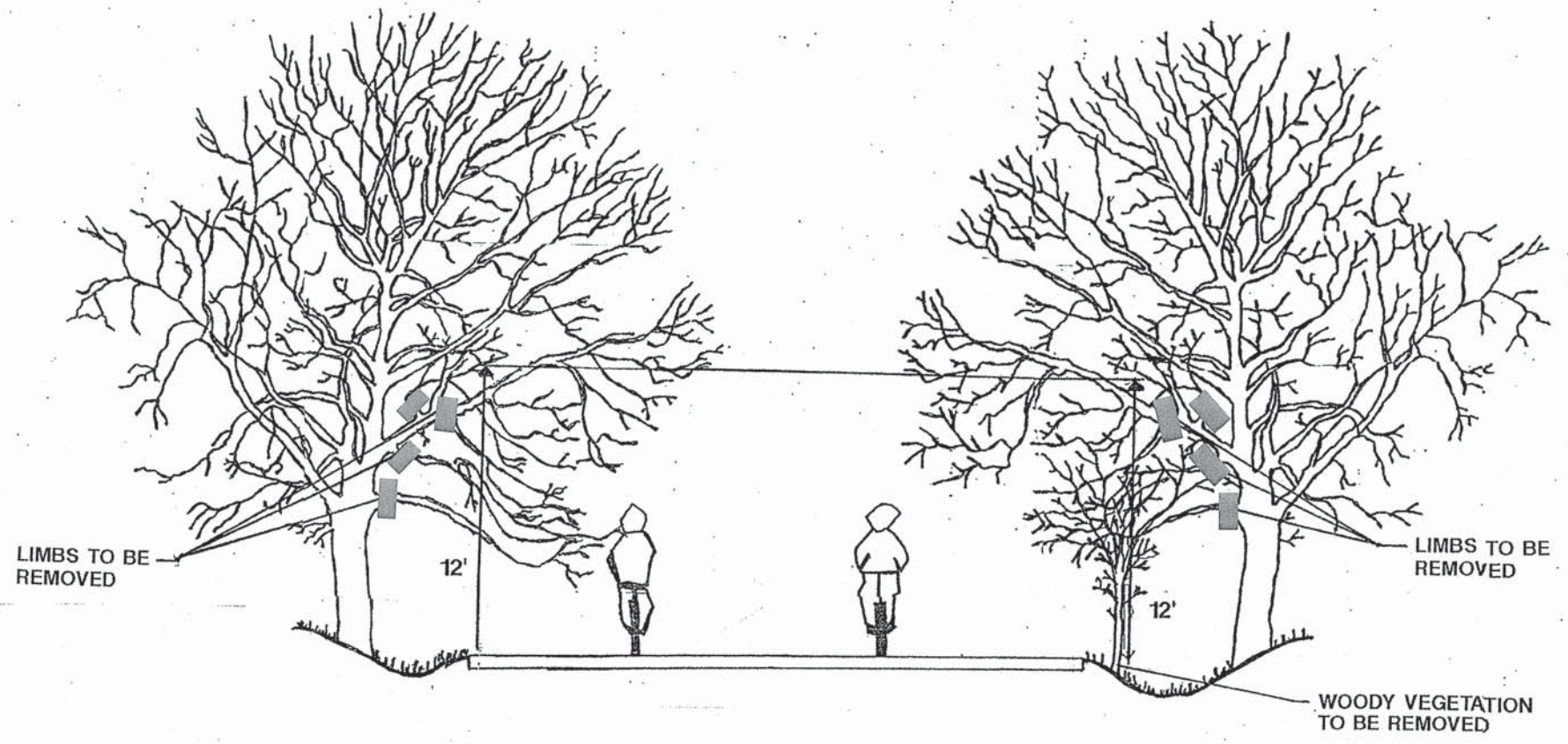
CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
 SIDEWALK / PAVEMENT GRADING DETAILS

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
XX	13-P4000-00-BT	COOK	109	58
CONTRACT NO. 63834				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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11/2/2013 10:27



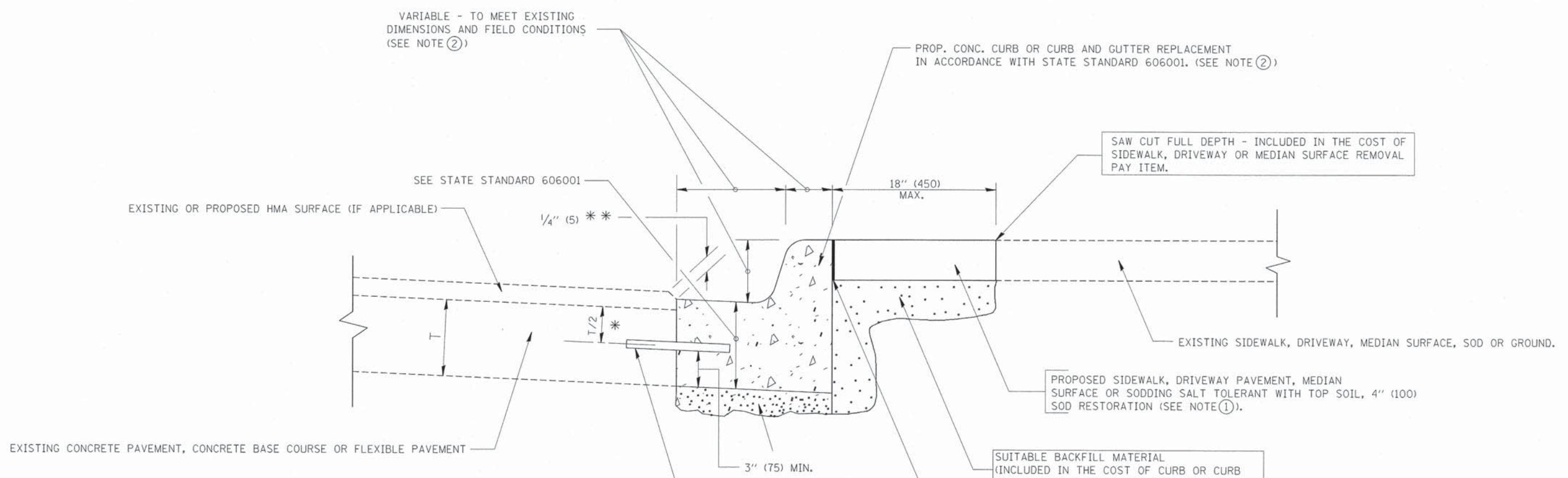
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAL-SAG GREENWAY TRAIL (ALSIP / PALOS PARK)
MISCELLANEOUS DETAILS

SCALE: NTS SHEET NO. 2 OF 2 SHEETS STA. — TO STA. —

F.A.P. RTE.	SECTION	CITY	TOTAL SHEETS	SHEET NO.
XX	13-P4000-00-BT	COOK	109	59
CONTRACT NO. 63834				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



* 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.

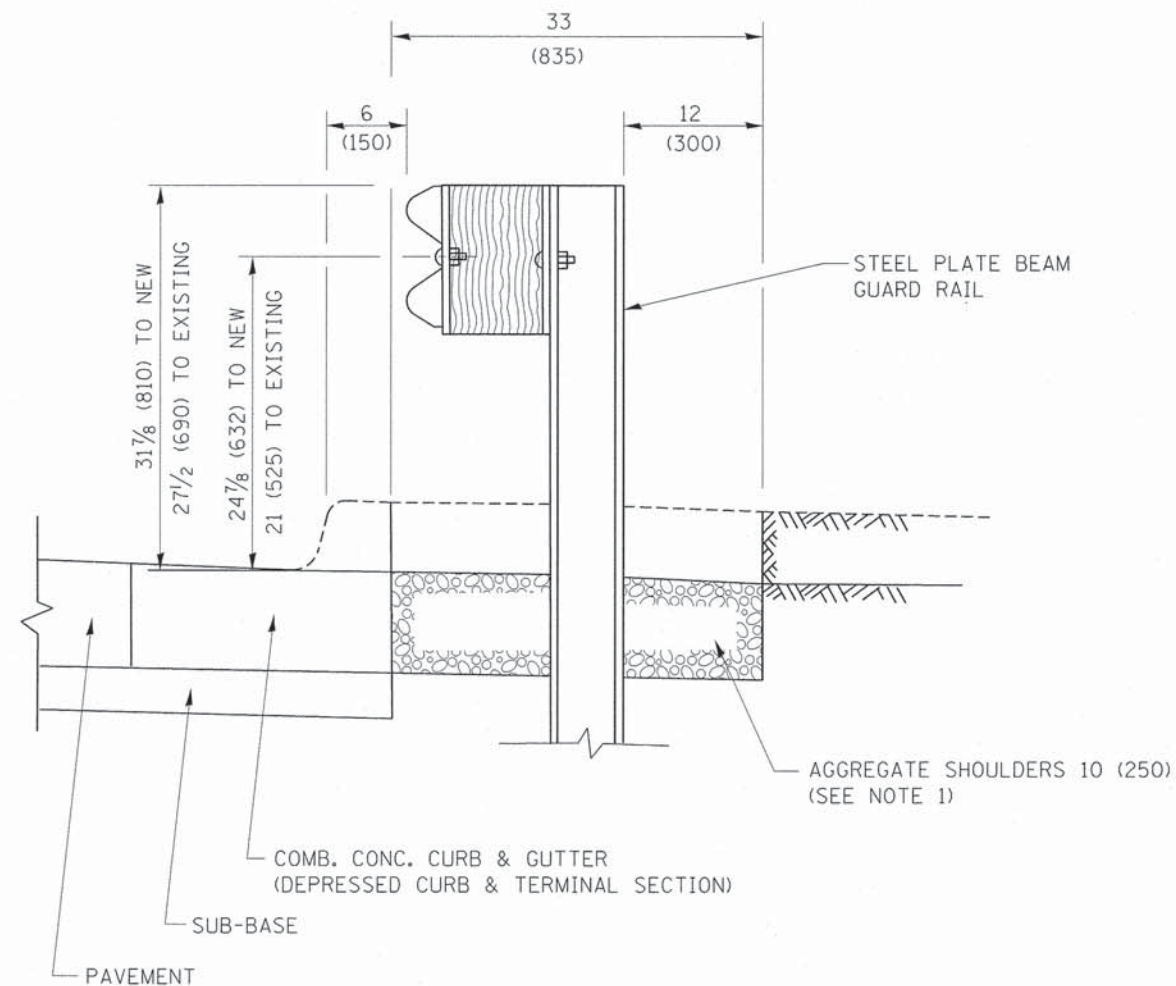
- NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
- SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,
- ② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED
- ③ CURB OR CURB 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.

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.

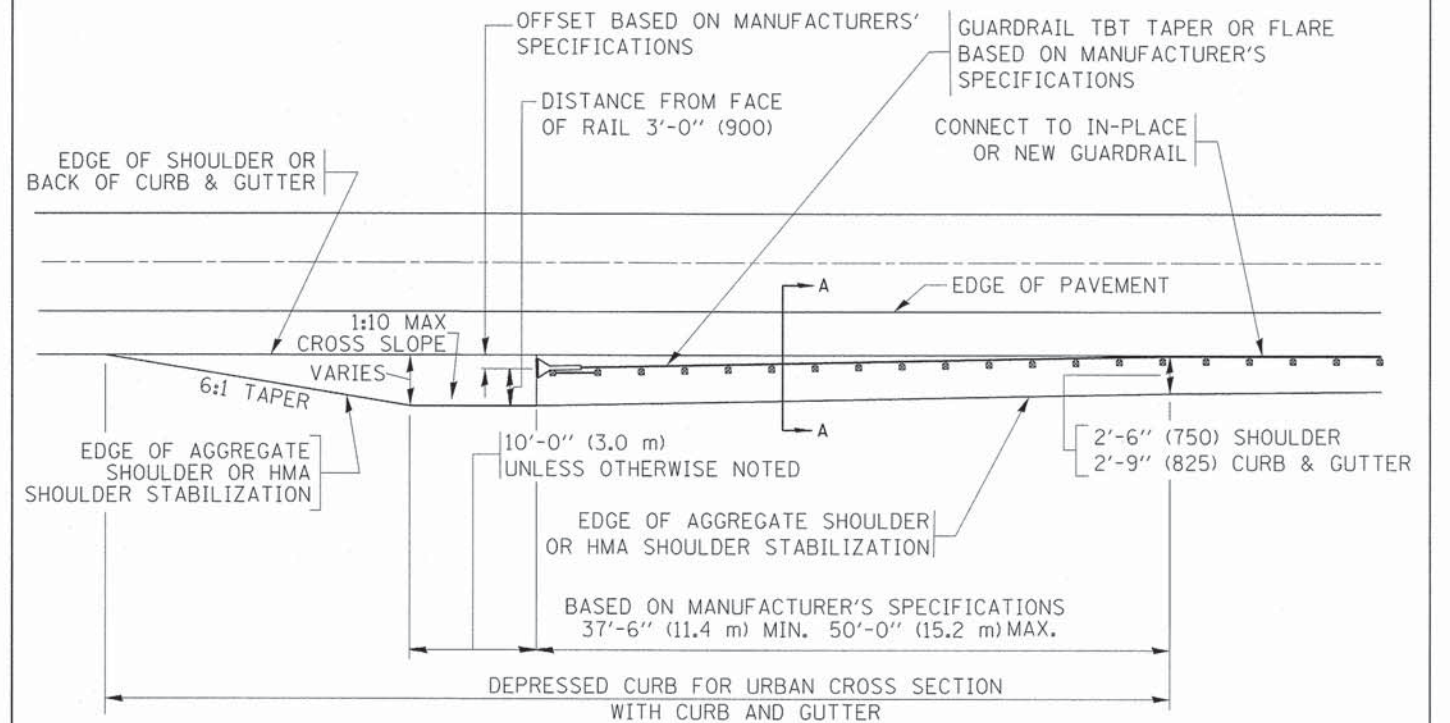
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						FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

**DETAILS FOR STEEL PLATE BEAM
GUARD RAIL ADJACENT TO CURB AND GUTTER
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]**



**DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

AGGREGATE SHOULDER, 10 (250) WILL BE PAID ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID ACCORDING TO SECTION 482.

COMB. CONC. C&G, STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

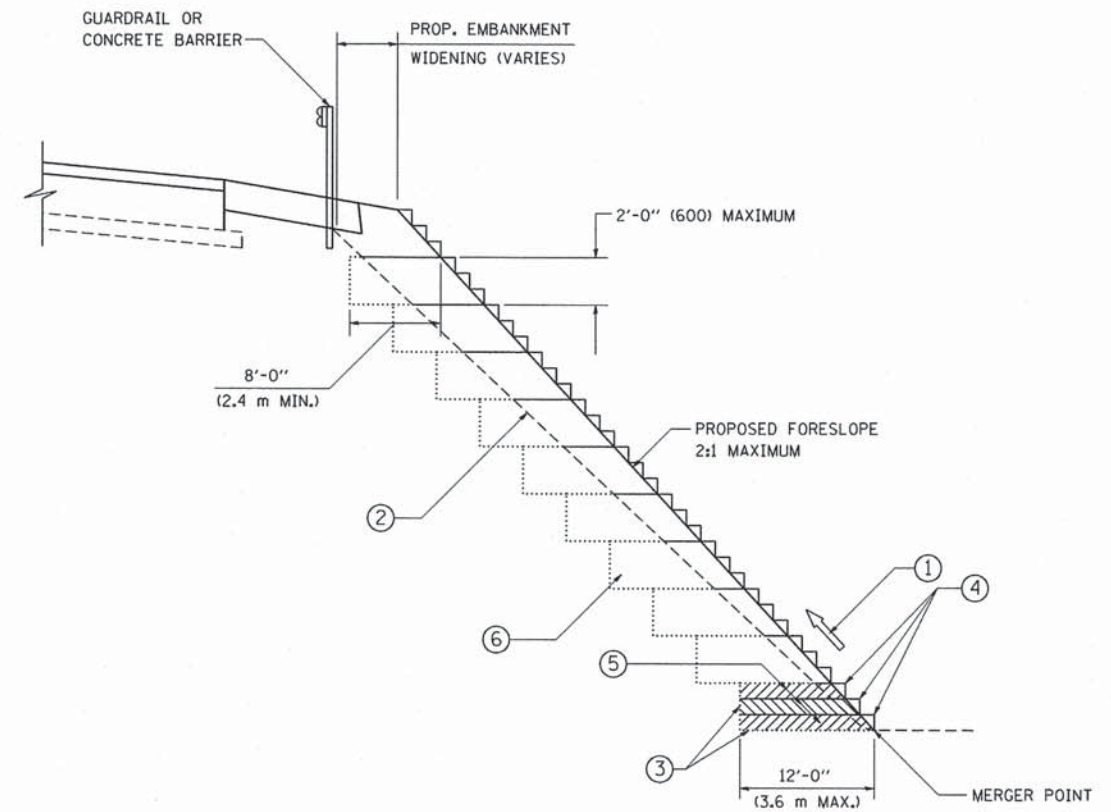
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	PLOT DATE = 9/4/2012	DATE - 09-22-90	REVISED - R. BORO 08-06-2012

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR DEPRESSED CURB & GUTTER AND
SHOULDER TREATMENT AT TBT TY 1 SPL.**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-P4000-00-BT	COOK	109	61
	BD600-10 (BD 34)			CONTRACT NO. 63834
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 "UNSUITABLE MATERIAL". 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).

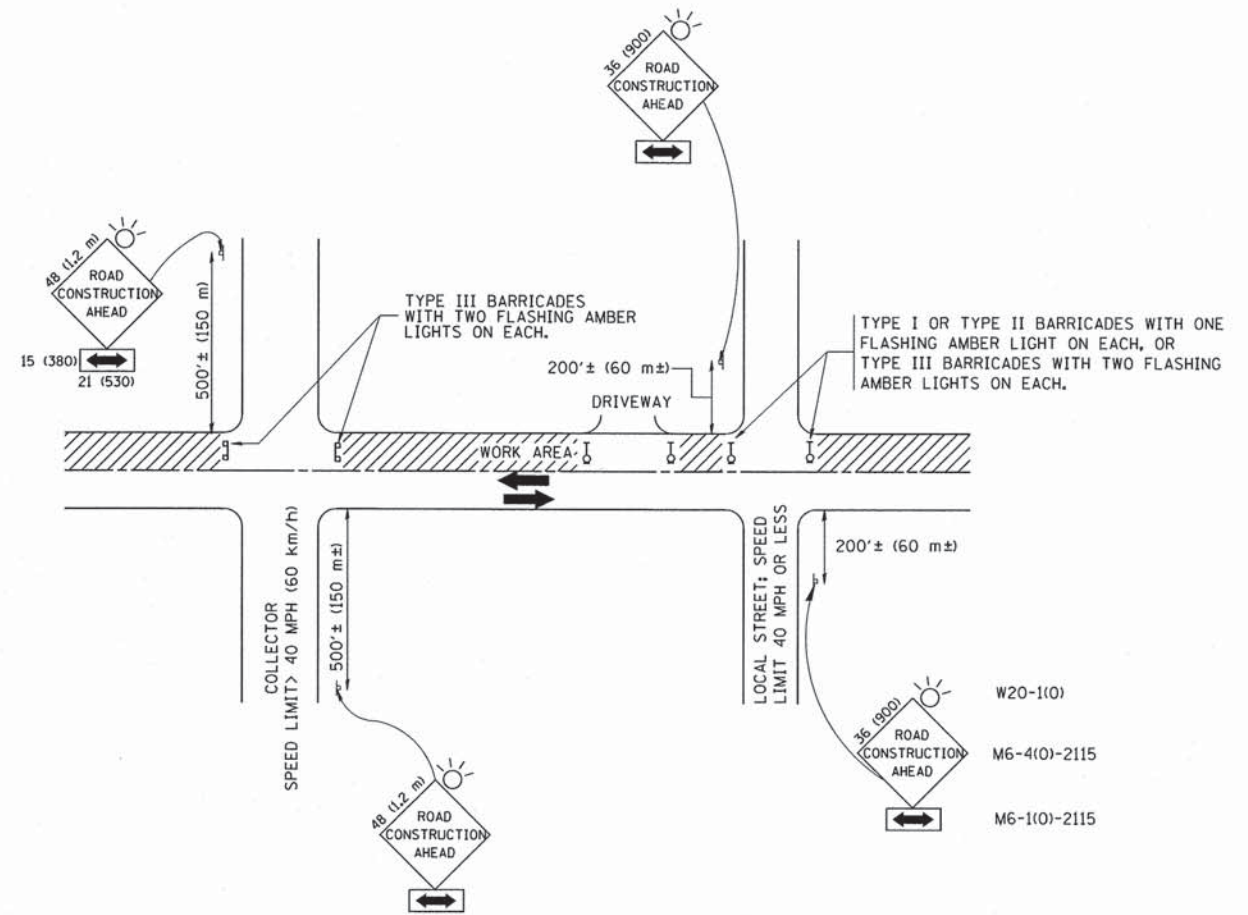
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		CHECKED - S.E.B.	REVISED -
		DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BENCHING DETAIL FOR EMBANKMENT WIDENING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-P4000-00-BT	COOK	109	62
BD-51			CONTRACT NO. 63234	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

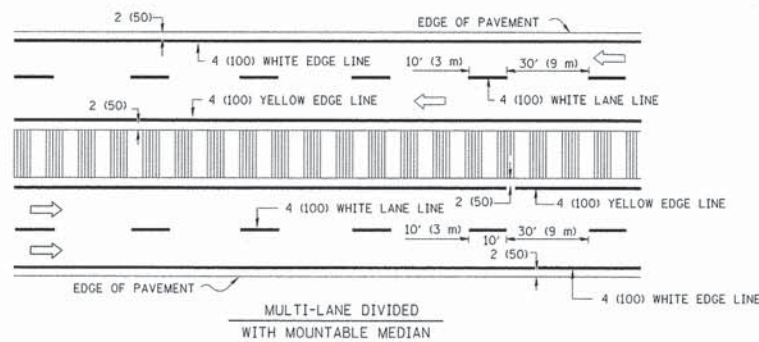
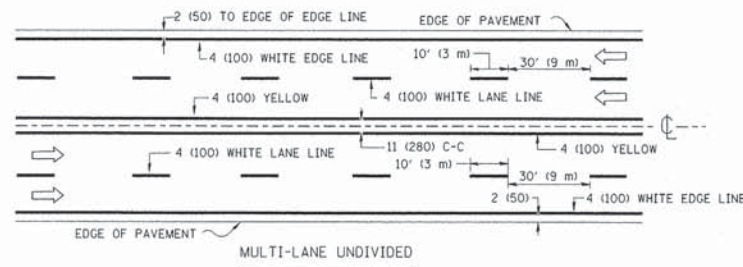
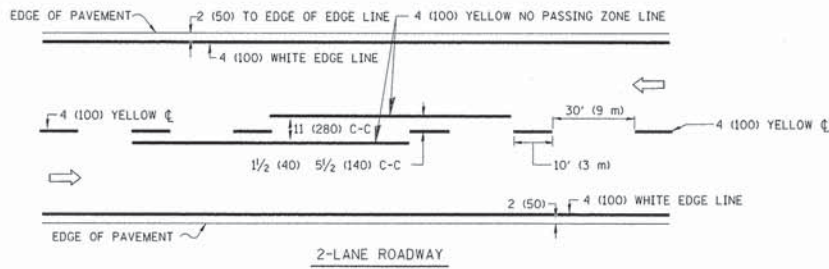
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		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

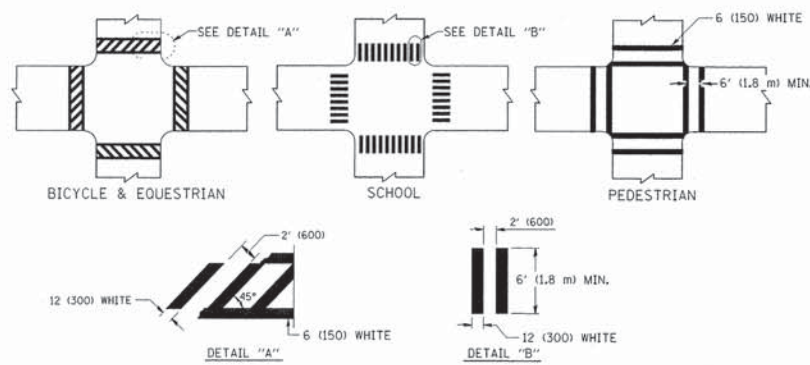
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 63834	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

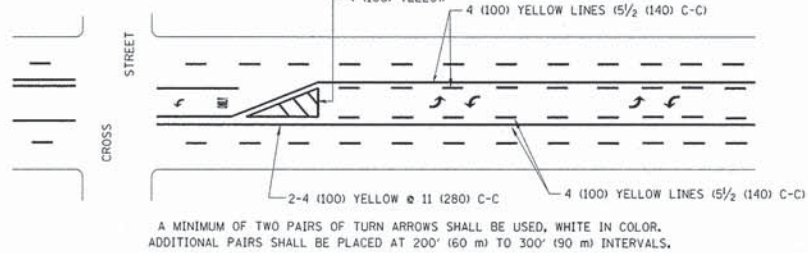
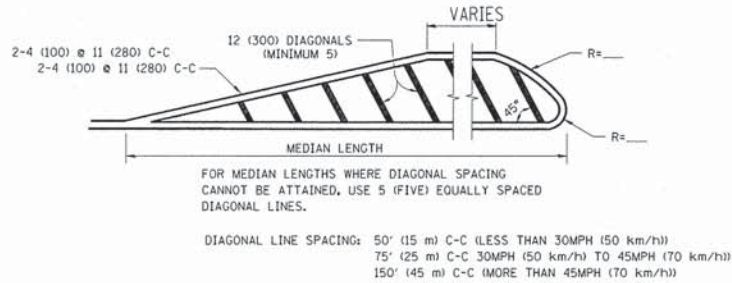
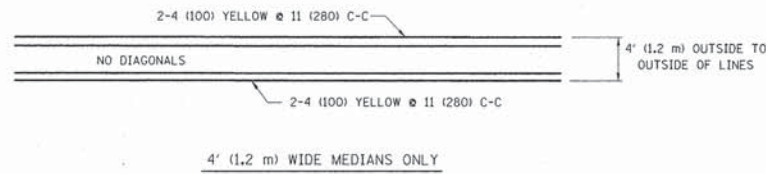


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

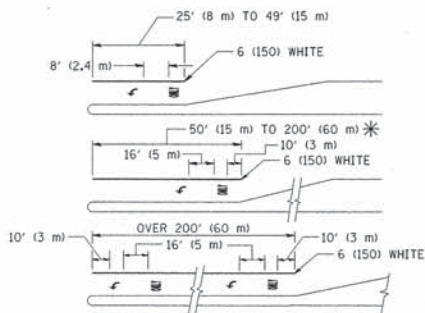
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



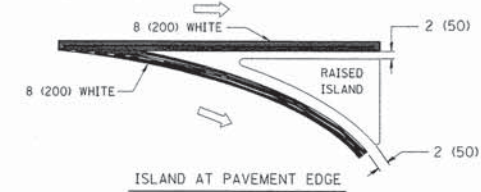
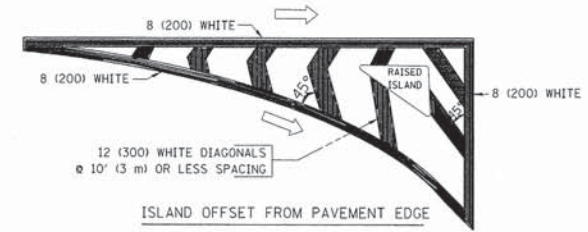
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE.
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

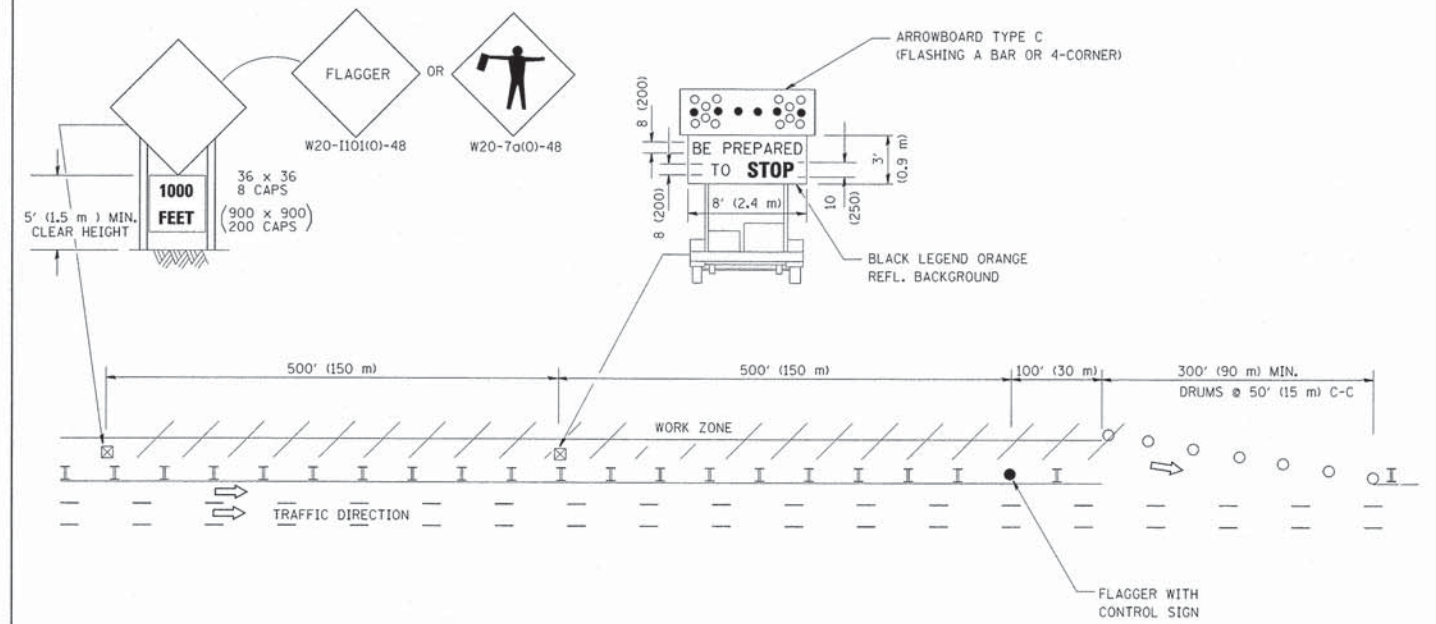
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	PLOT SCALE = 50,000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

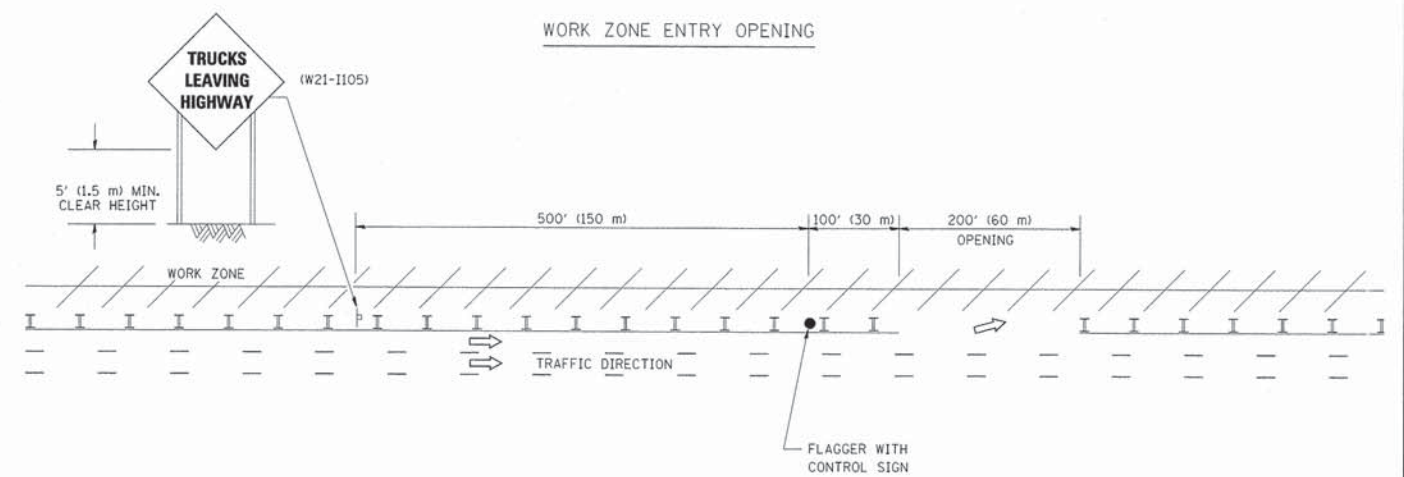
DISTRICT ONE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS			13-P4000-00-BT	COOK	109	64
SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.	
		TC-13		CONTRACT NO. 63834		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT						

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

1. THE ARROWBOARD, THE FLAGGER AHEAD SIGN AND THE TRUCKS LEAVING HIGHWAY SIGN SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE EXIT OPENINGS SHOULD BE A MINIMUM OF ONE HALF MILE APART.
3. EXITING THE WORK ZONE AT ANY PLACE OTHER THAN AT A WORK ZONE EXIT OPENING WILL BE PROHIBITED.
4. ALL VEHICLES SHALL ENTER THE WORK ZONE AT ENTRY OPENINGS, USING THEIR TURN SIGNALS TO WARN MOTORISTS

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

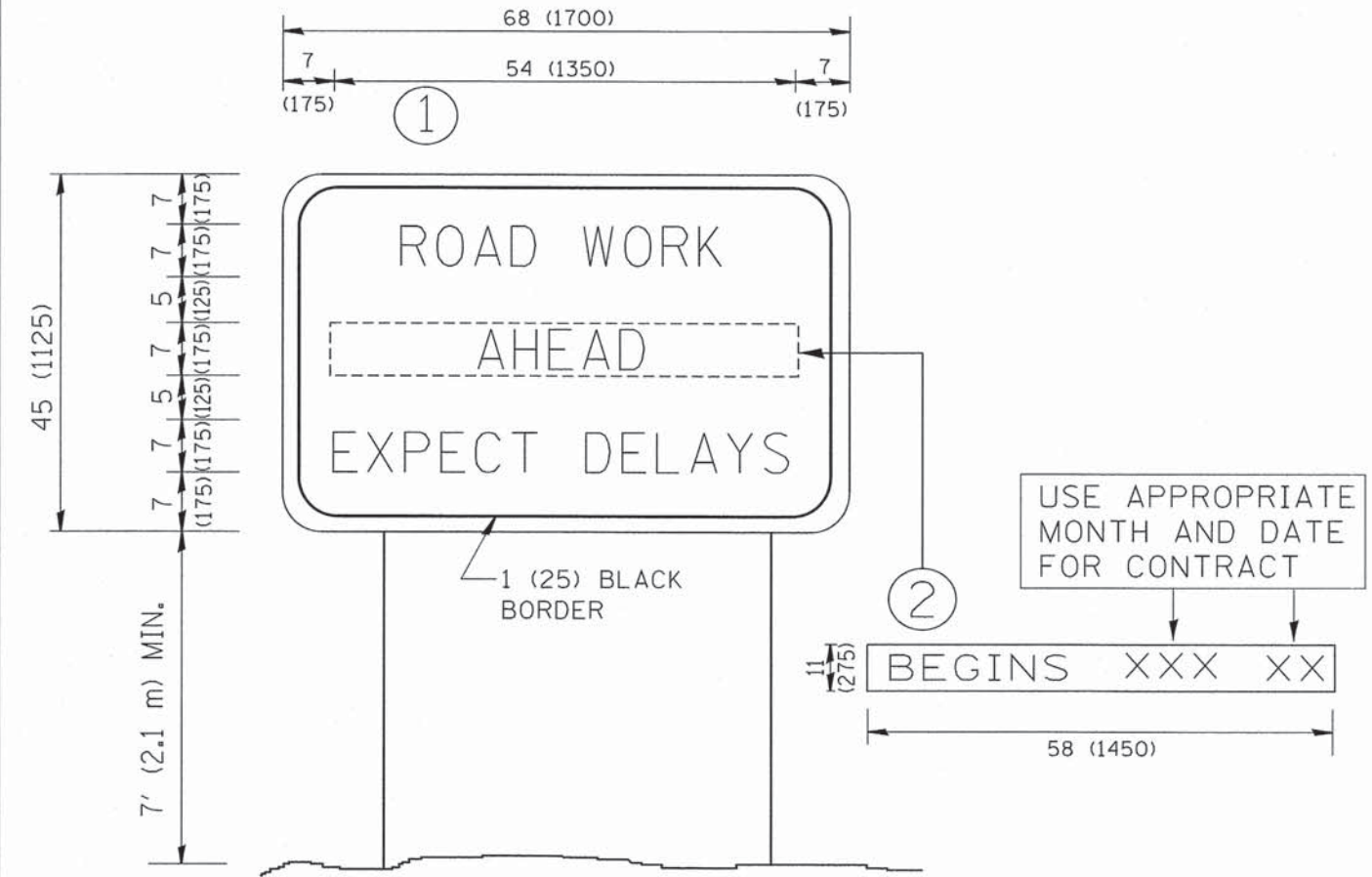
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		DRAWN -	REVISED - J.A.F. 02-06
	PLOT SCALE = 50,000' / IN.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 1/26/2010	DATE -	REVISED - S.P.B. 12-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING FOR FLAGGING OPERATIONS
AT WORK ZONE OPENINGS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE. XX	SECTION 13-P4000-00-BT	COUNTY COOK	TOTAL SHEETS 109	SHEET NO. 65
TC-18		CONTRACT NO. 63834		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

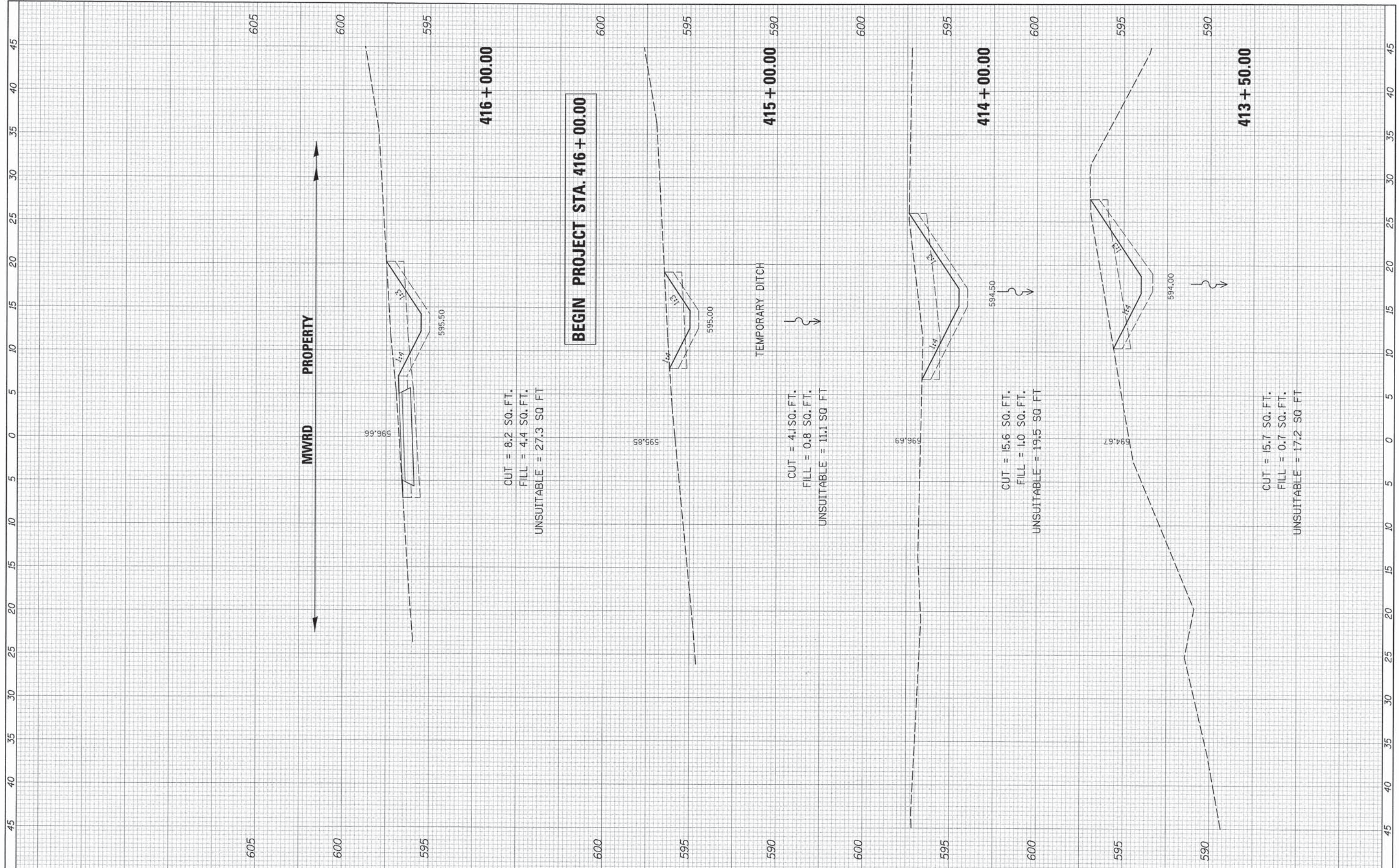
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	PLOT SCALE = 50,000 / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	13-P4000-00-BT	COOK	109	66	
TC-22			CONTRACT NO. 63834		
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT					

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TOPPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TOPPLATE		
	AREAS CHECKED		



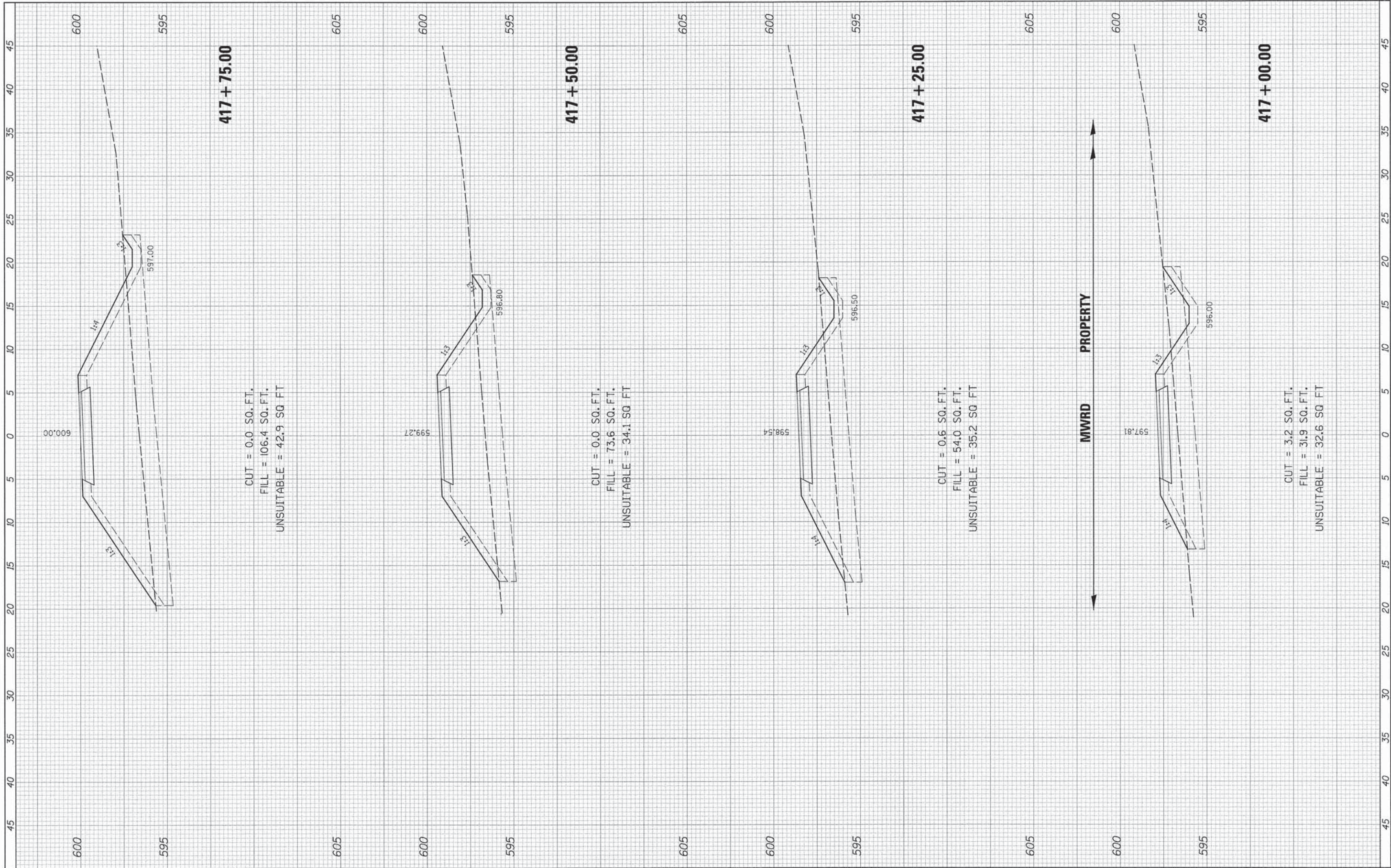
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		DATE -	REVISED -					[ILLINOIS] FED. AID PROJECT				

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

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

605

605

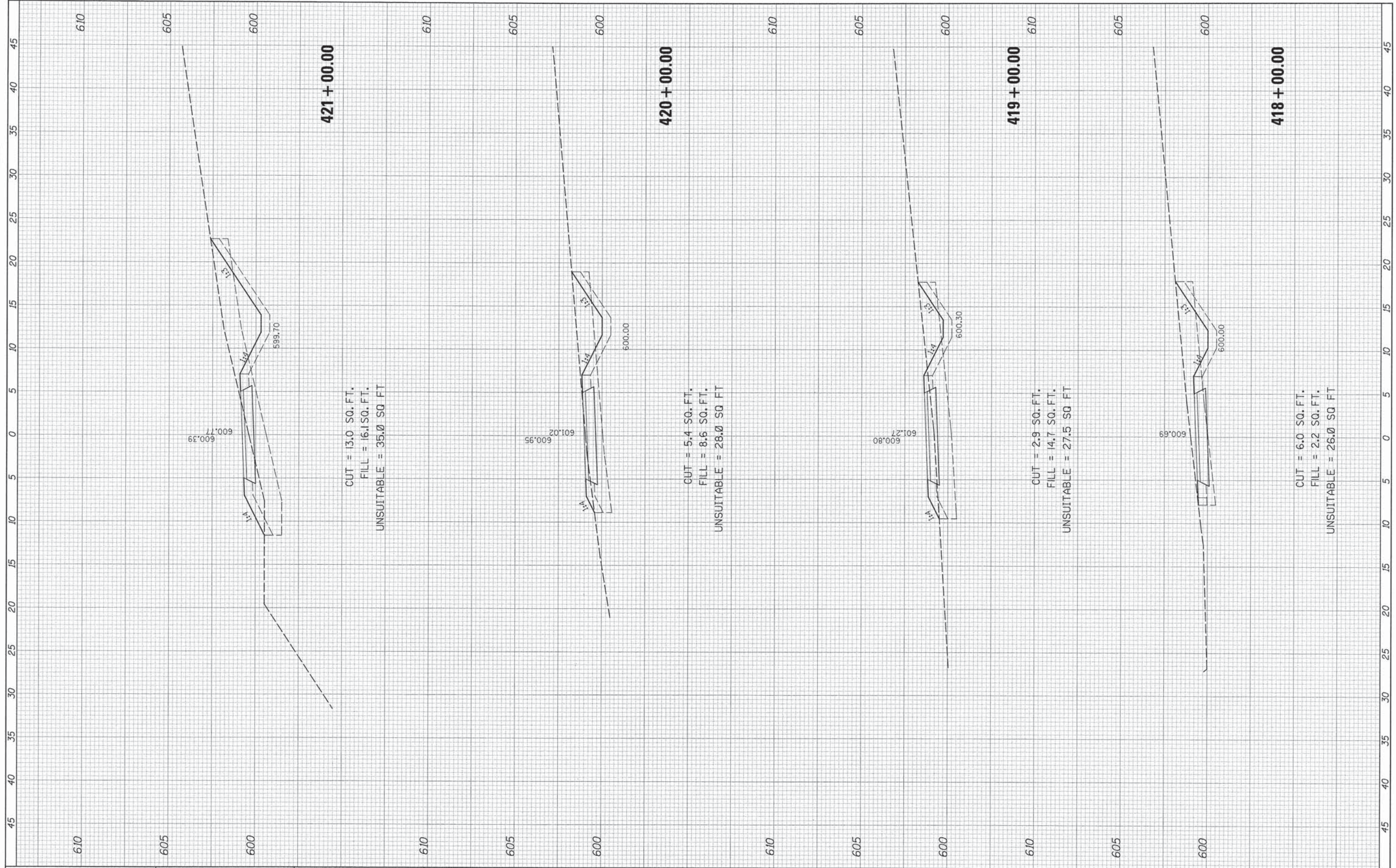


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		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. 417+00.00 TO STA. 417+75.00

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

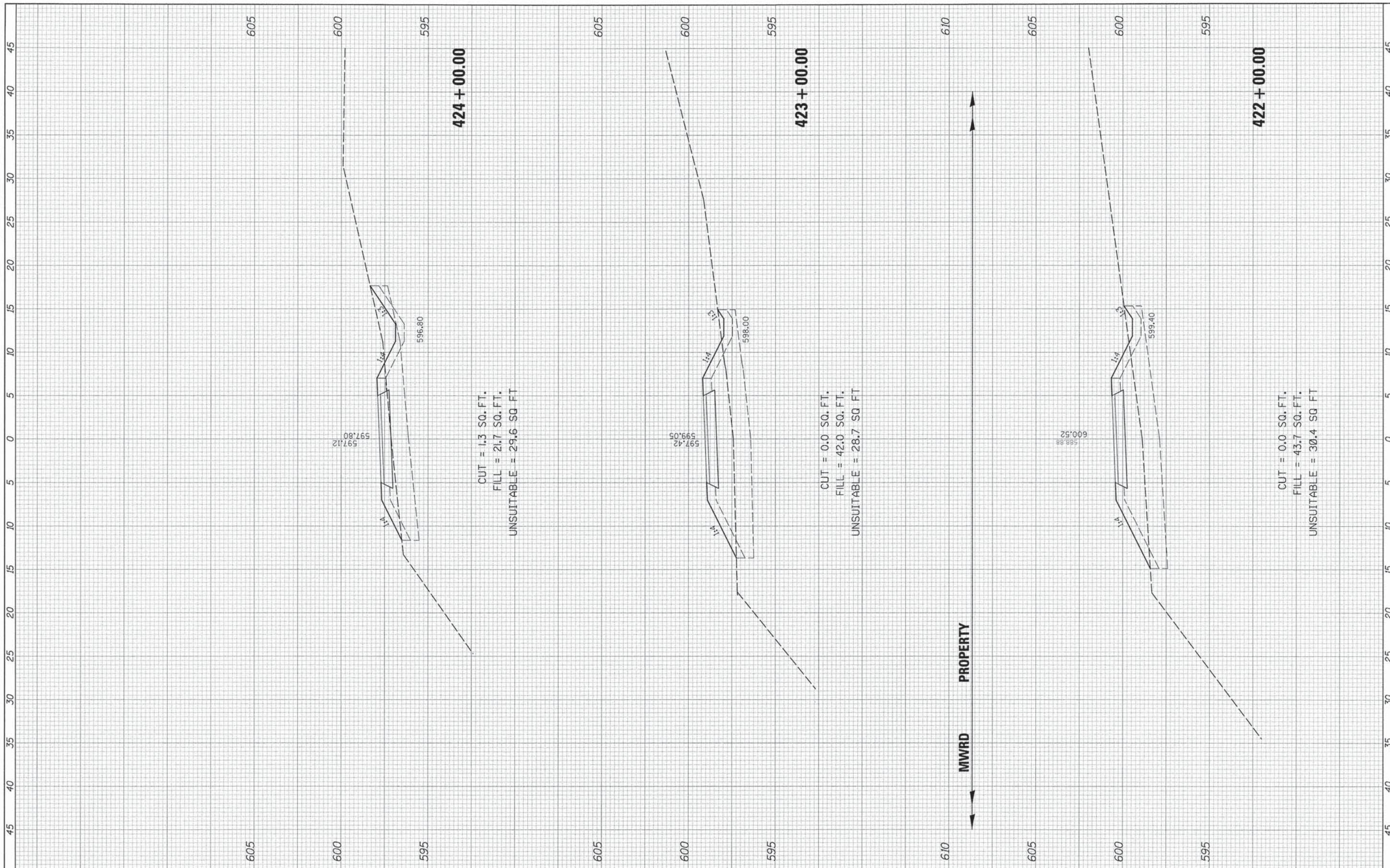
ORIGINAL SURVEY NO.	SURVEY PLOTTED	BY	DATE
NOTE BOOK NO.	TEMPLATE AREAS CHECKED		



FILE NAME	USER NAME = David.Landwehr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET	OF	SHEETS	STA. 418+00.00 TO STA. 421+00.00			

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	AREAS	
	CHECKED	

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



CUT = 1.3 SQ. FT.
 FILL = 21.7 SQ. FT.
 UNSUITABLE = 29.6 SQ FT

CUT = 0.0 SQ. FT.
 FILL = 42.0 SQ. FT.
 UNSUITABLE = 28.7 SQ FT

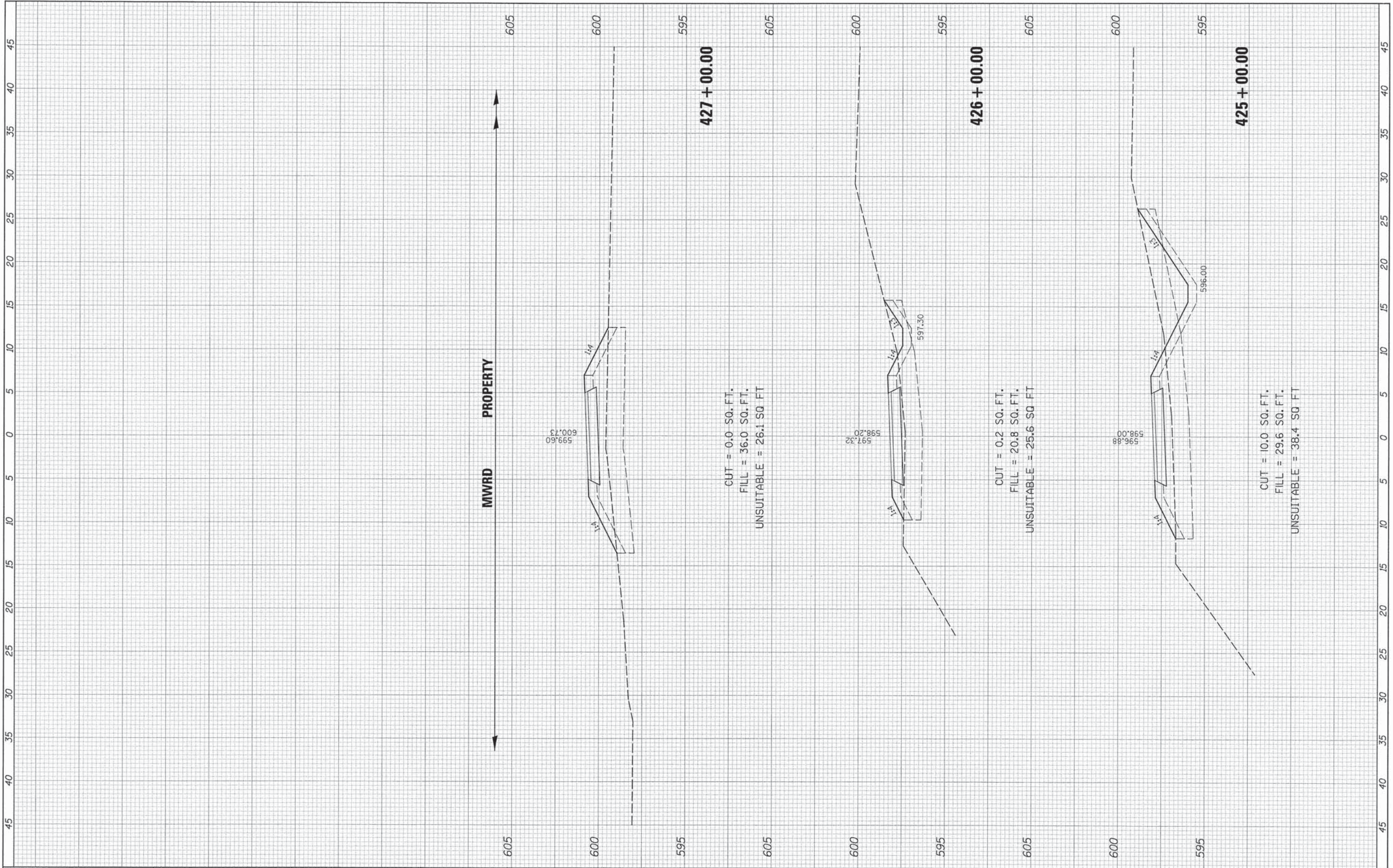
CUT = 0.0 SQ. FT.
 FILL = 43.7 SQ. FT.
 UNSUITABLE = 30.4 SQ FT

PROPERTY

FILE NAME =	USER NAME = David.Landwehr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET	OF	SHEETS	STA. 422+00.00	TO STA. 424+00.00		

FINAL SURVEY NO.	DATE
SCHEMATIC	BY
NOTED	DATE
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

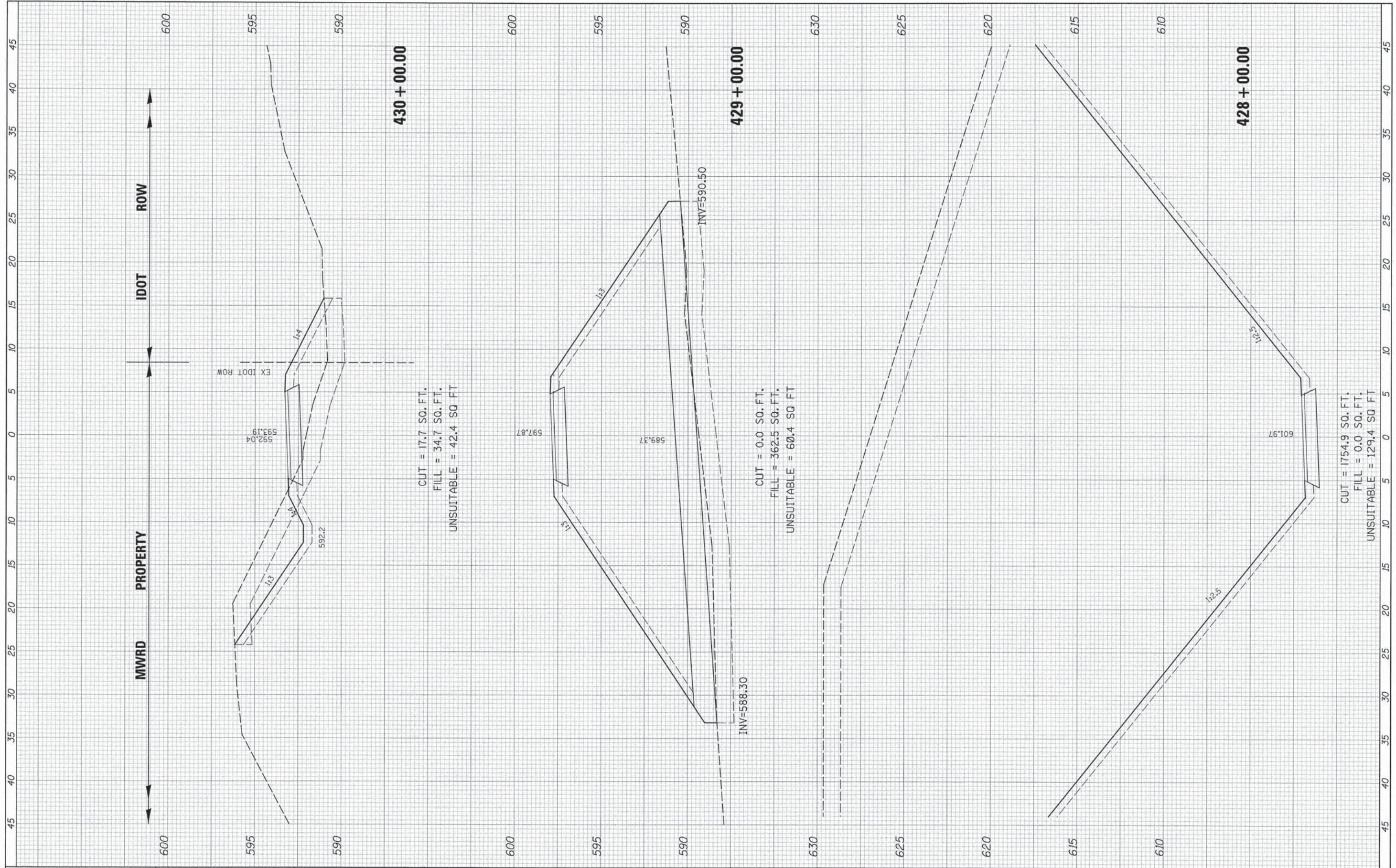
ORIGINAL SURVEY NO.	DATE
SCHEMATIC	BY
NOTED	DATE
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	



FILE NAME #	USER NAME = David.Landwehr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET	OF	SHEETS	STA. 425+00.00	TO STA. 427+00.00		

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

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



CUT = 17.7 SQ. FT.
 FILL = 34.7 SQ. FT.
 UNSUITABLE = 42.4 SQ. FT.

CUT = 0.0 SQ. FT.
 FILL = 362.5 SQ. FT.
 UNSUITABLE = 60.4 SQ. FT.

CUT = 1754.9 SQ. FT.
 FILL = 0.0 SQ. FT.
 UNSUITABLE = 129.4 SQ. FT.

FILE NAME =	USER NAME = David.Landwehr	DESIGNED =	REVISED =
#FILEL#		DRAWN =	REVISED =
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

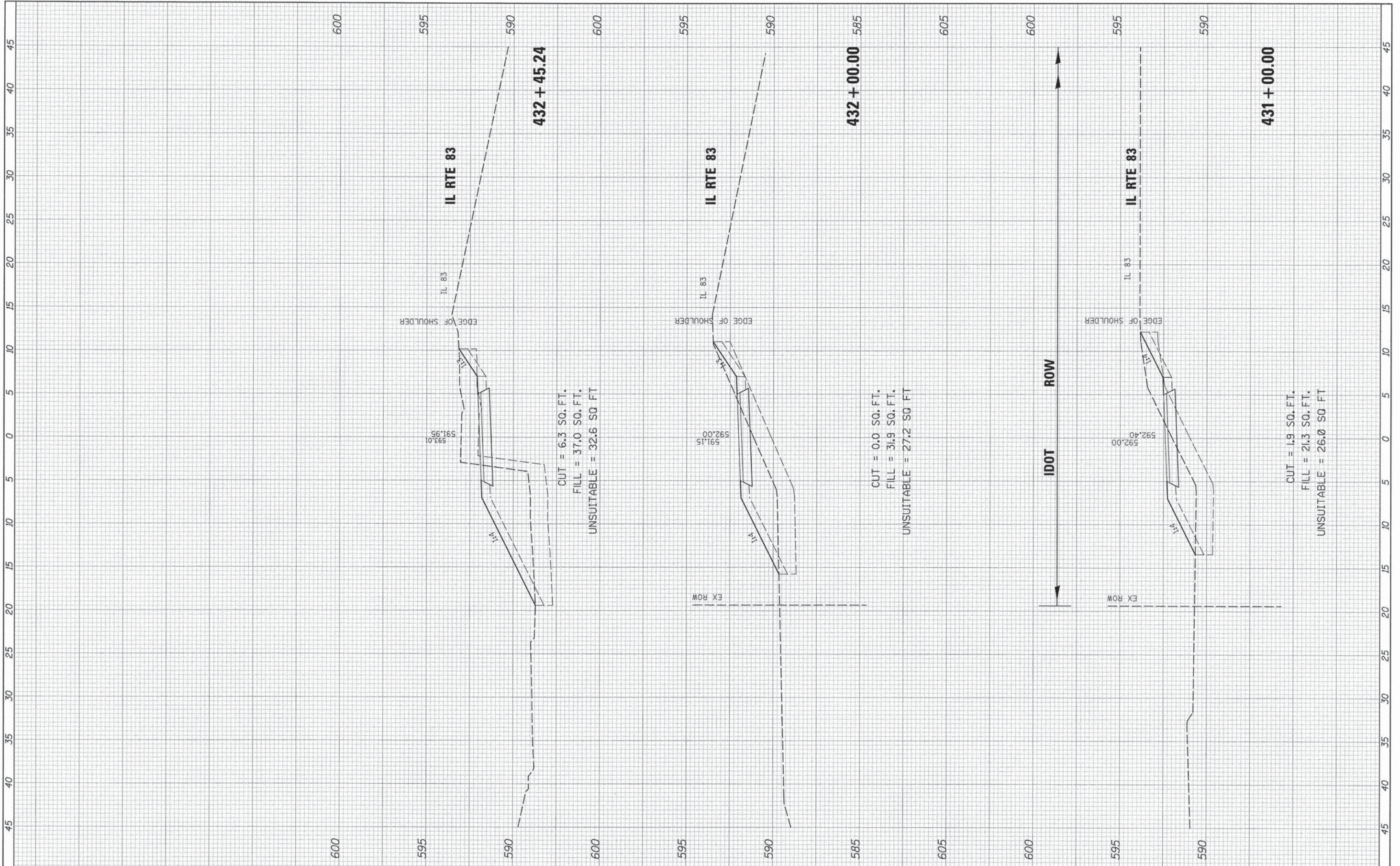
CAL-SAG GREENWAY TRAIL CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 428+00.00 TO STA. 430+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	I3-P4000-00-BT	COOK	109	72
CONTRACT NO. 63834				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEY PLOTTED	DATE
NOTE BOOK NO.	TEMP. AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEY PLOTTED	DATE
NOTE BOOK NO.	TEMP. AREAS CHECKED	

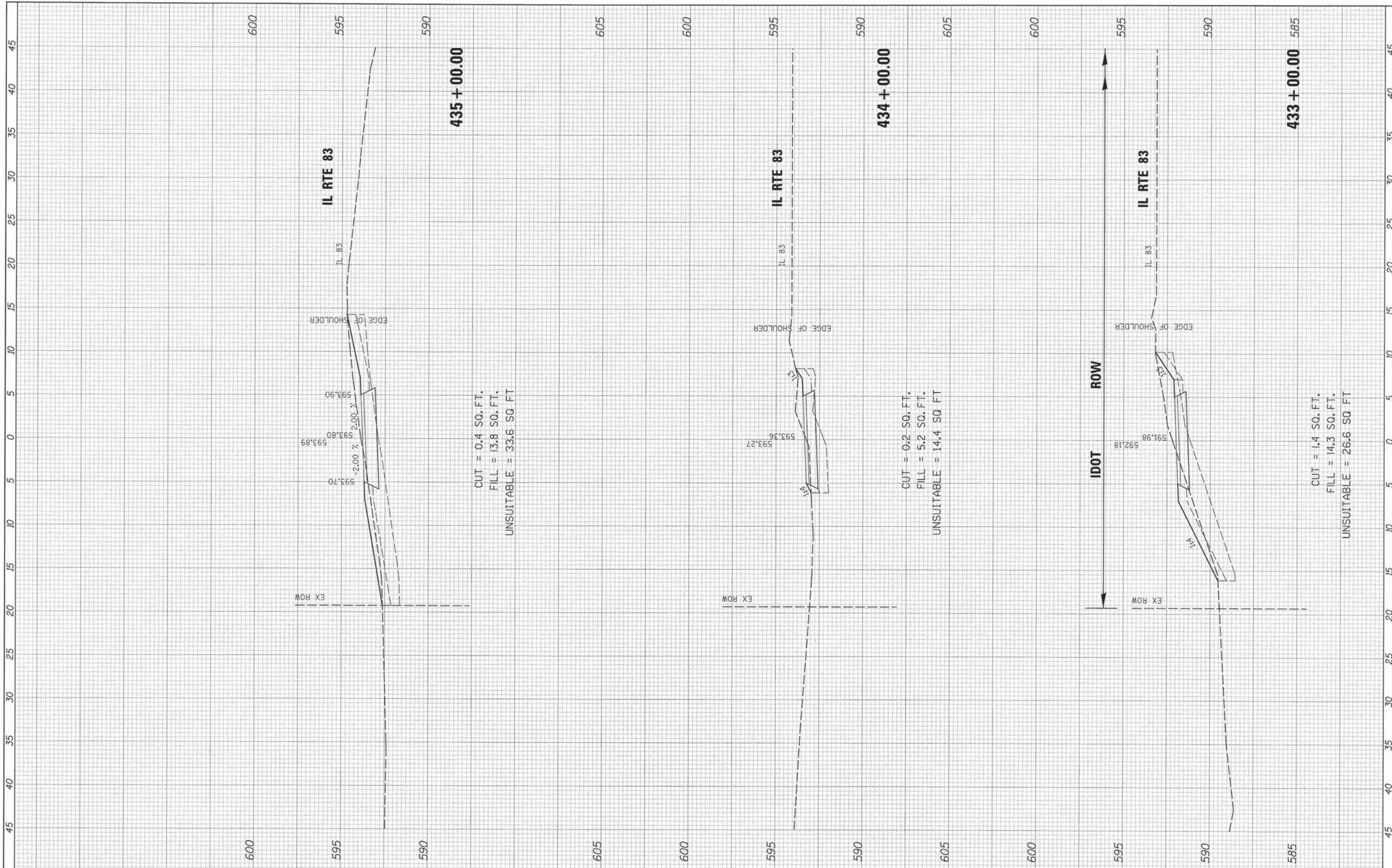


FILE NAME	USER NAME = David.Landwehr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

SCALE: SHEET OF SHEETS STA. 431+00.00 TO STA. 432+45.24

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

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



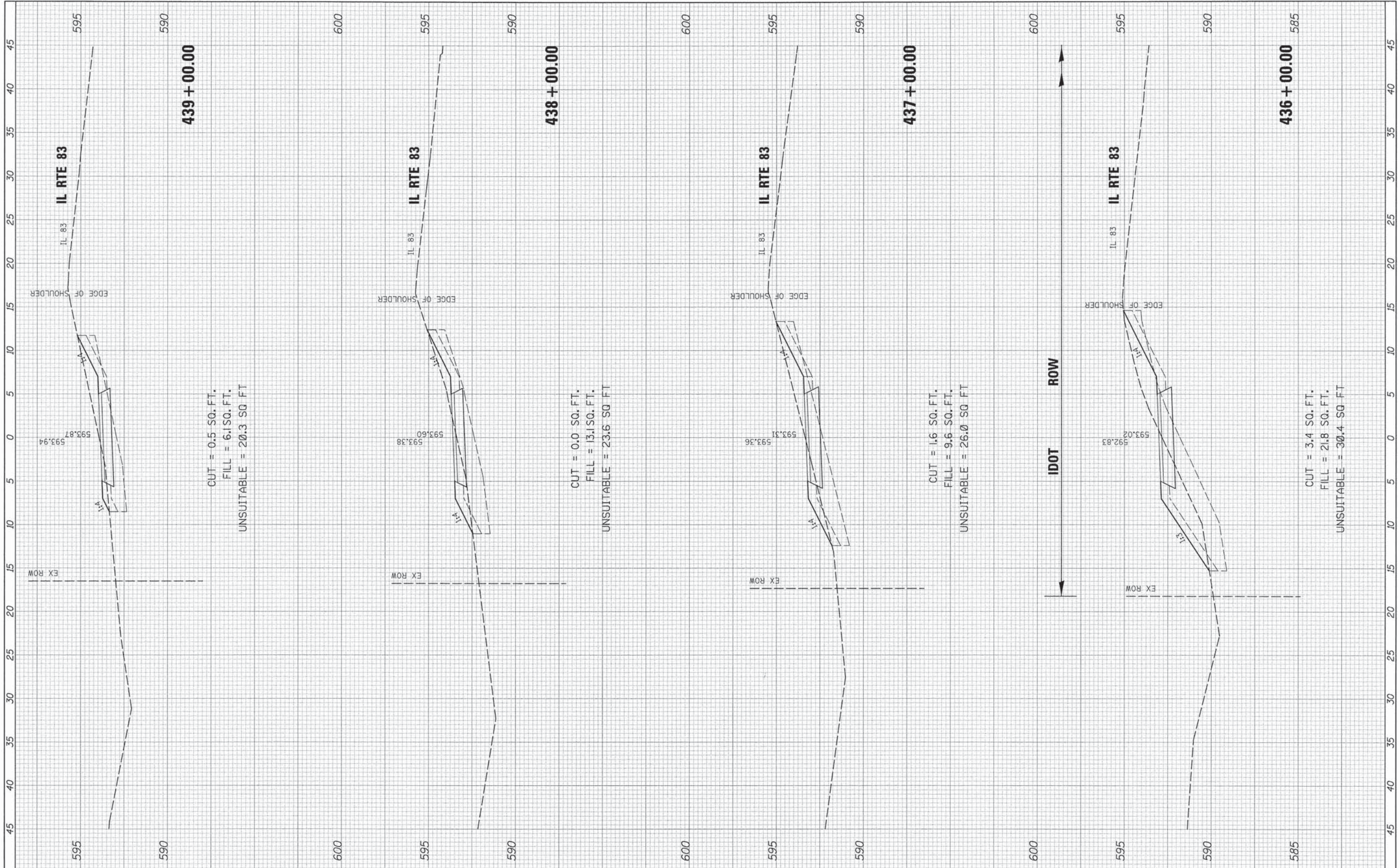
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		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET	OF	SHEETS	STA. 433+00.00	TO STA. 435+00.00		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPERATURE		
	AREAS CHECKED		

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

600

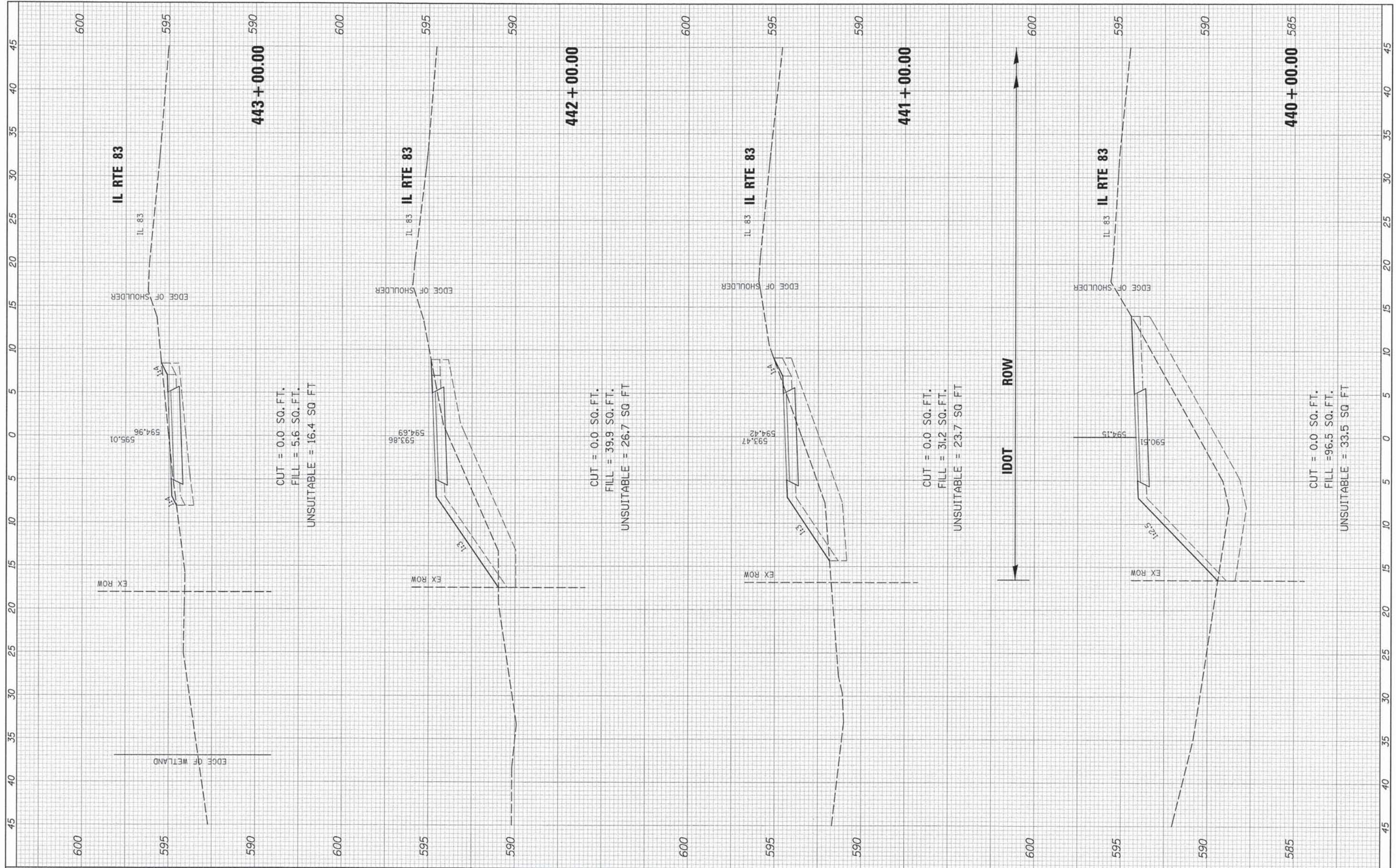
600



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	PLOT DATE = 10/27/2013	CHECKED -	REVISED -								CONTRACT NO. 63834		
		DATE -	REVISED -								ILLINOIS FED. AID PROJECT		

FINAL SURVEY	NO.
SCHEMATIC	NO.
PLOTTED	NO.
TEMPLATE	NO.
AREAS CHECKED	NO.
BY	DATE

ORIGINAL SURVEY	NO.
SCHEMATIC	NO.
PLOTTED	NO.
TEMPLATE	NO.
AREAS CHECKED	NO.
BY	DATE



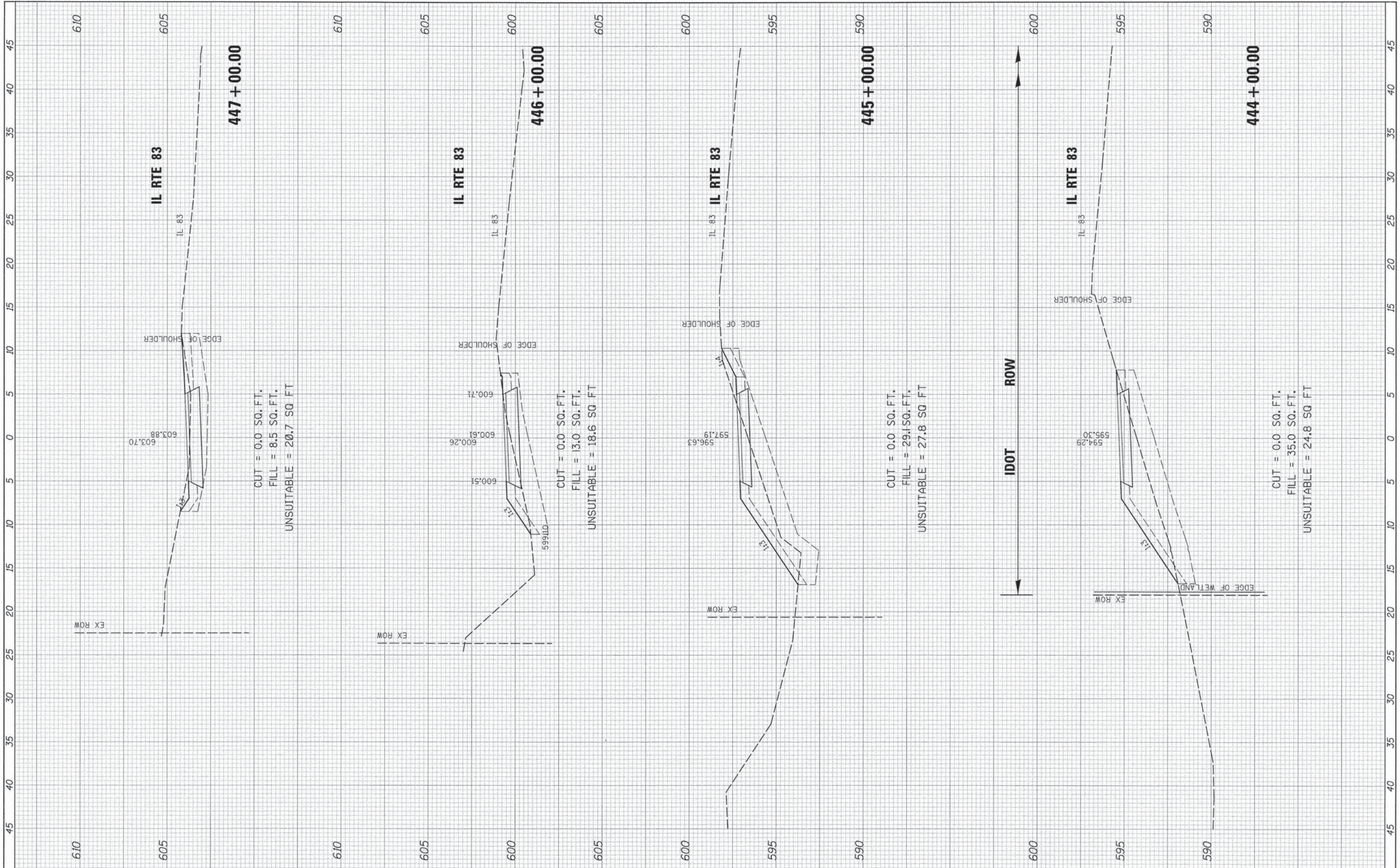
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		DATE -	REVISED -					[ILLINOIS] FED. AID PROJECT				

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

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

615

615

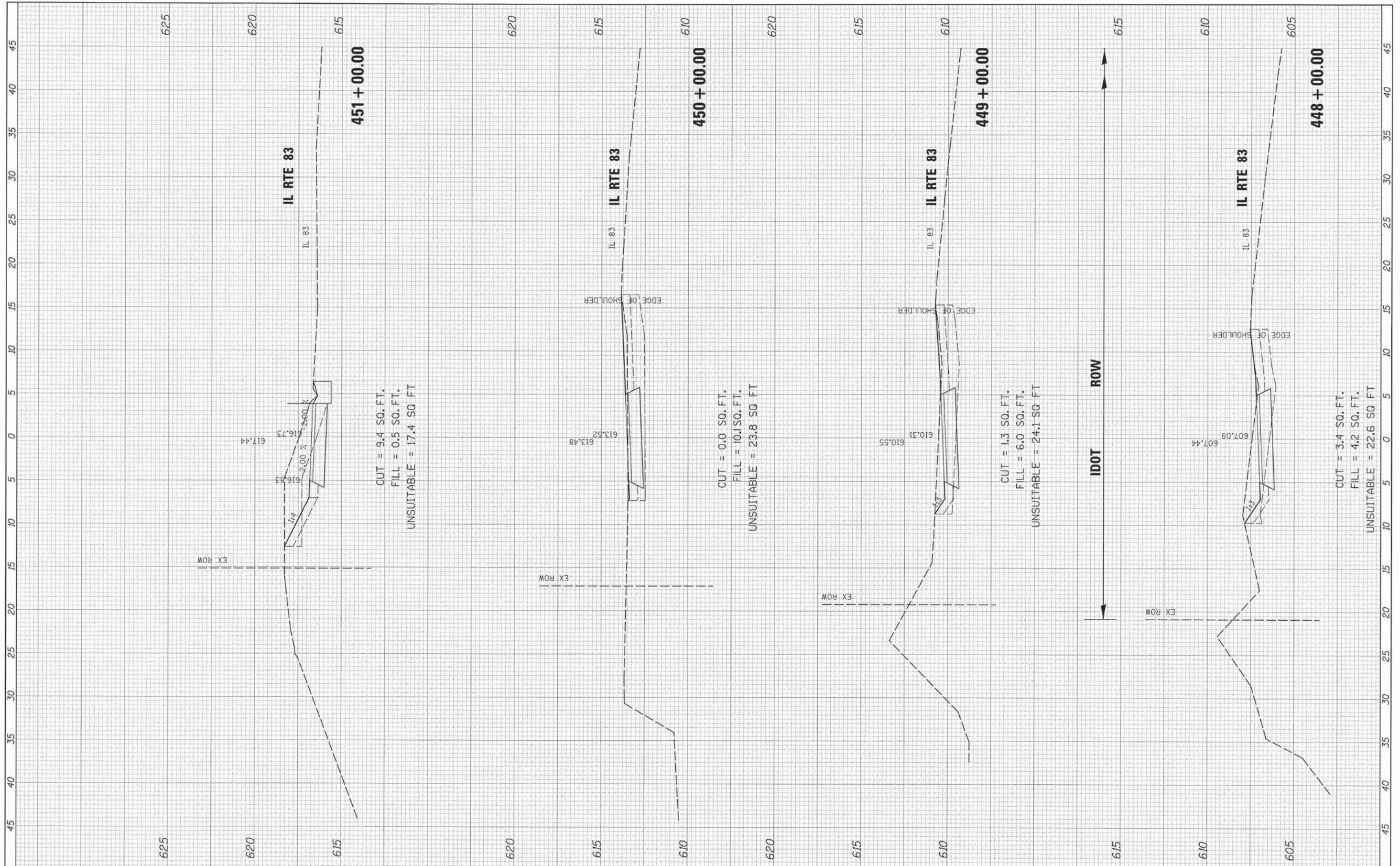


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		DATE =	REVISED =					ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. 444+00.00 TO STA. 447+00.00

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

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



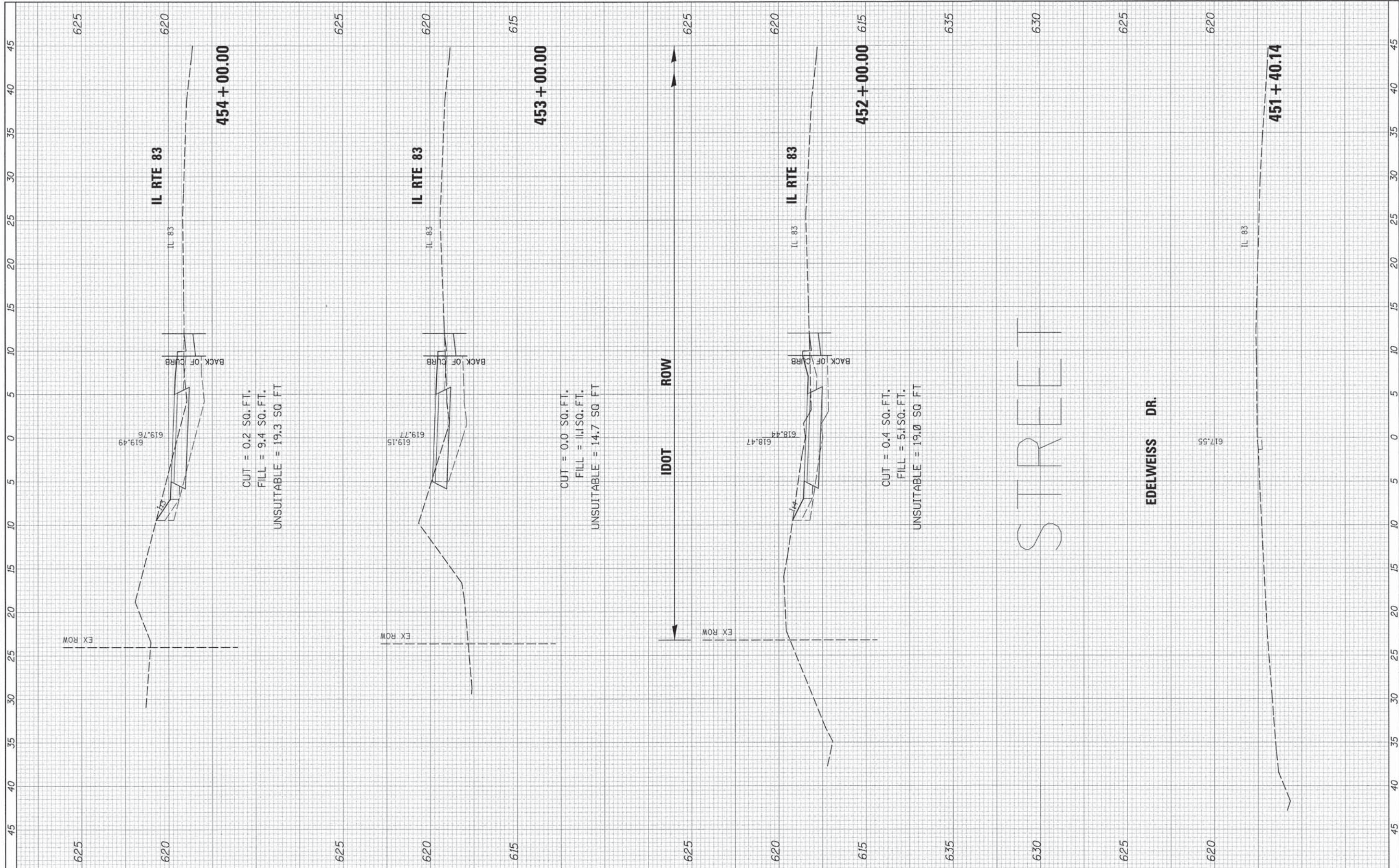
FILE NAME =	USER NAME = David.Landwehr	DESIGNED =	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE.#	PLOT SCALE = 5.0000" / 1"	DRAWN =	REVISED =					13-P4000-00-BT	COOK	109	78	
#MODEL.NAME#	PLOT DATE = 10/27/2013	CHECKED =	REVISED =					CONTRACT NO. 63834				
		DATE =	REVISED =					ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET	OF	SHEETS	STA. 448+00.00	TO STA. 451+00.00		

FINAL SURVEY	REVISIONS	BY	DATE
NOTE BOOK NO.	PLotted		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	DATE
NOTE BOOK NO.	

630

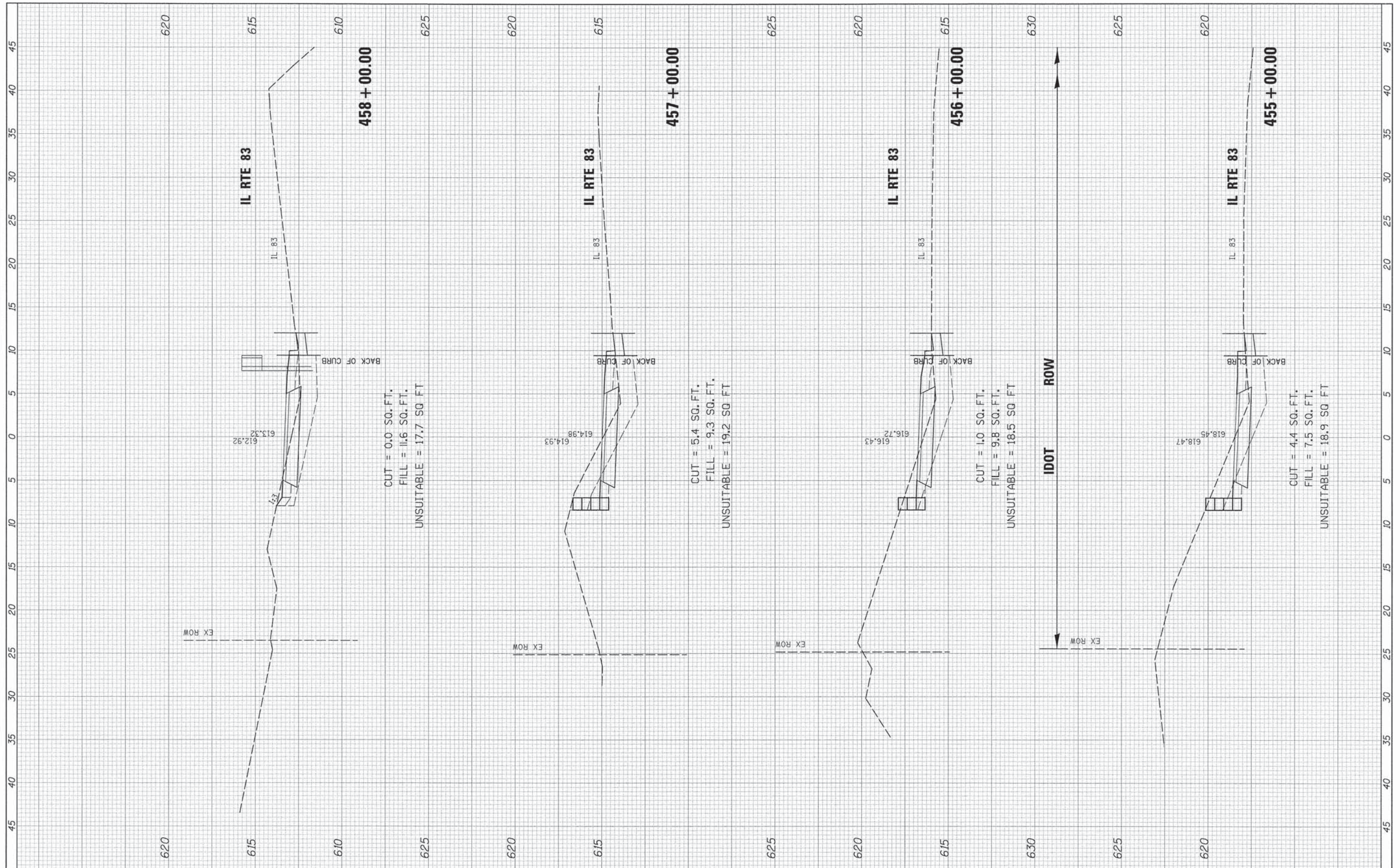
630



FILE NAME =	USER NAME = David.Landwehr	DESIGNED =	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#	PLOT SCALE = 5,0000' / IN.	DRAWN =	REVISED =			13-P4000-00-BT	COOK	109	79	
#MODELNAME#	PLOT DATE = 18/27/2013	CHECKED =	REVISED =			SCALE: SHEET OF SHEETS STA. 451+40.14 TO STA. 454+00.00		CONTRACT NO. 63834		
		DATE =	REVISED =			ILLINOIS FED. AID PROJECT				

FINAL SURVEY	REVISIONS	DATE
NOTE BOOK	PLANNED	BY
NO.	TEMPERATURE	
	AREAS CHECKED	

ORIGINAL SURVEY	REVISIONS	DATE
NOTE BOOK	PLANNED	BY
NO.	TEMPERATURE	
	AREAS CHECKED	

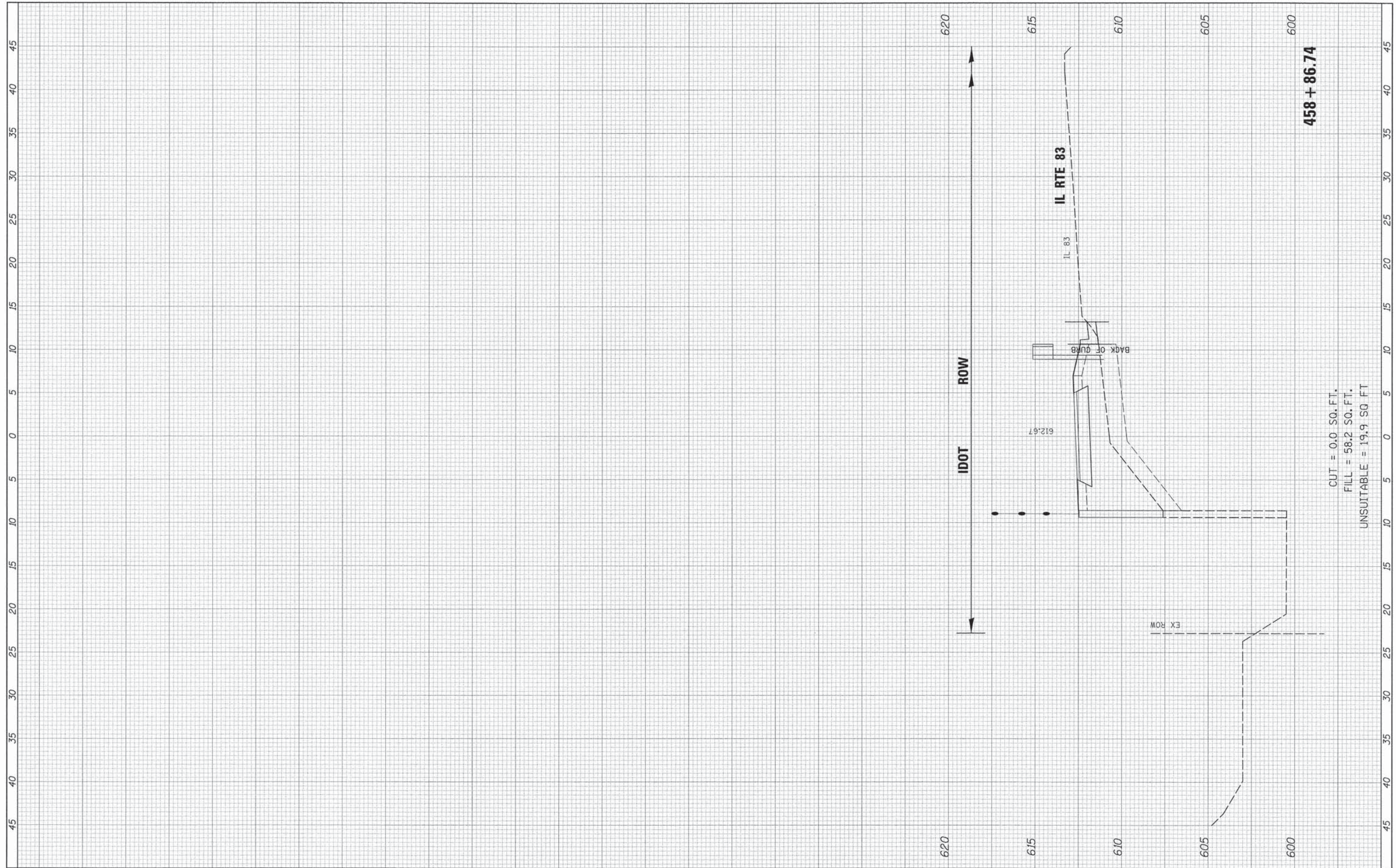


FILE NAME *	USER NAME = David.Landwehr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL*	PLOT SCALE = 5.0000' / IN.	DRAWN -	REVISED -			13-P4000-00-BT	COOK	109	80	
#MODELNAME*	PLOT DATE = 10/27/2013	CHECKED -	REVISED -			CONTRACT NO. 63834				
		DATE -	REVISED -			[ILLINOIS] FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. 455+00.00 TO STA. 458+00.00

FINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

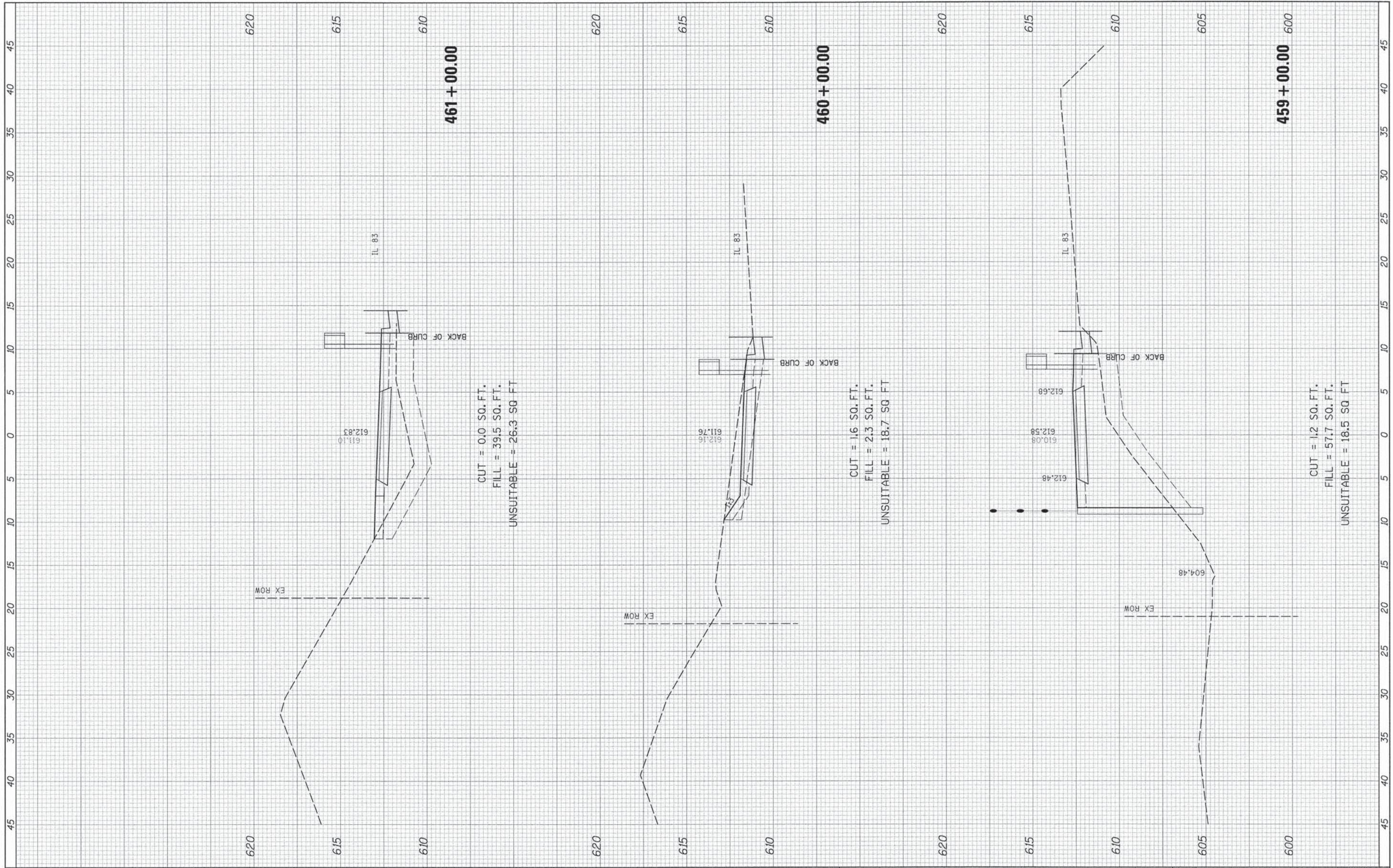


CUT = 0.0 SQ. FT.
 FILL = 58.2 SQ. FT.
 UNSUITABLE = 19.9 SQ. FT.

FILE NAME =	USER NAME = David_Landwehr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#	PLOT SCALE = 5.0000" / IN.	DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	13-P4000-00-BT	COOK	109	81
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		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

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

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



FILE NAME =
#FILEL#

USER NAME = David.Landwehr
PLOT SCALE = 5.0000" / IN.
PLOT DATE = 10/27/2013

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CAL-SAG GREENWAY TRAIL CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 459+00.00 TO STA. 461+00.00

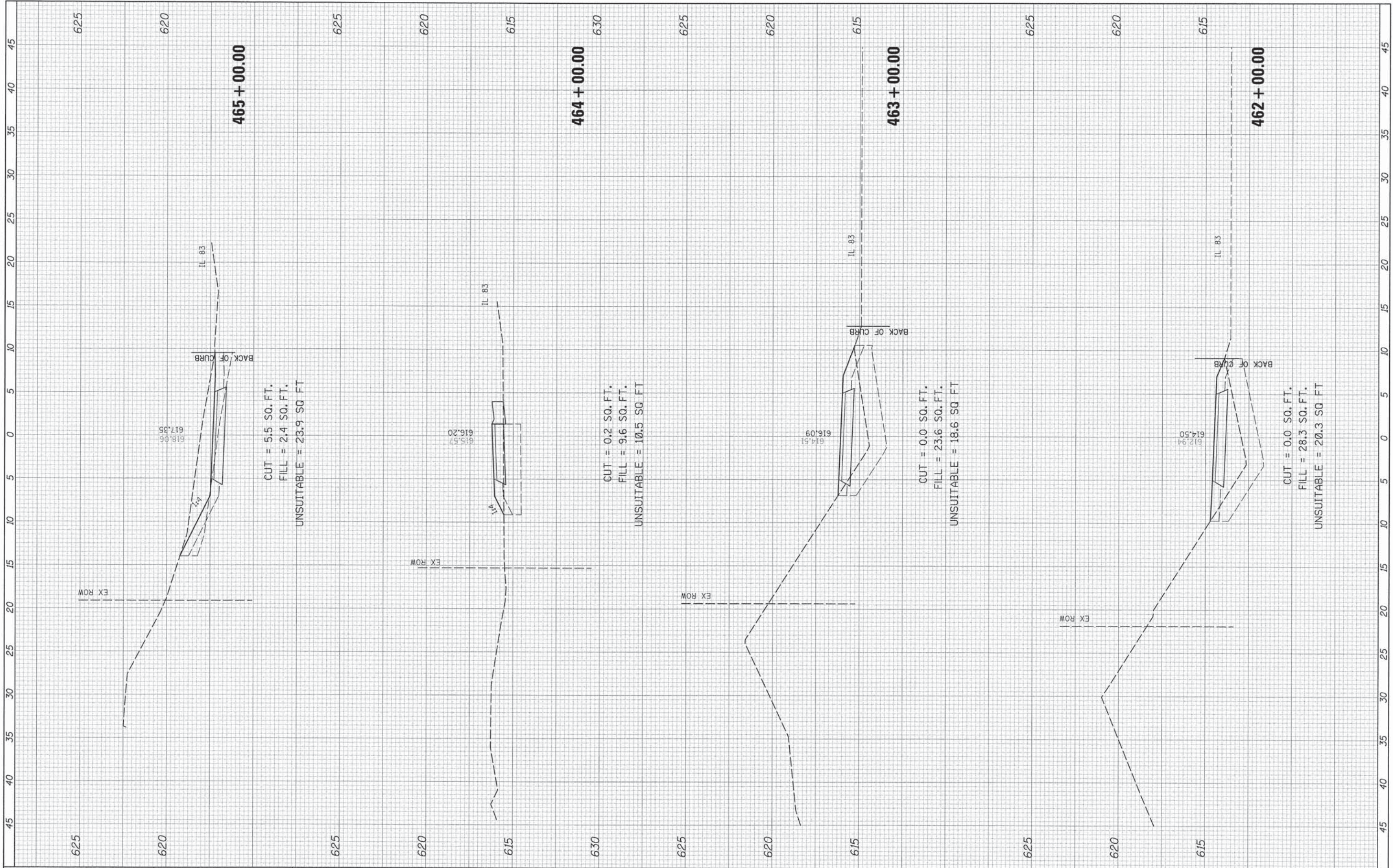
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	13-P4000-00-BT	COOK	109	82
CONTRACT NO. 63834				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
NO. _____	BY _____
NOTE BOOK	DATE
NO. _____	BY _____
TEMPLATE	DATE
AREAS CHECKED	BY _____
AREAS CHECKED	DATE

ORIGINAL SURVEY	DATE
NO. _____	BY _____
NOTE BOOK	DATE
NO. _____	BY _____
TEMPLATE	DATE
AREAS CHECKED	BY _____
AREAS CHECKED	DATE

630

630



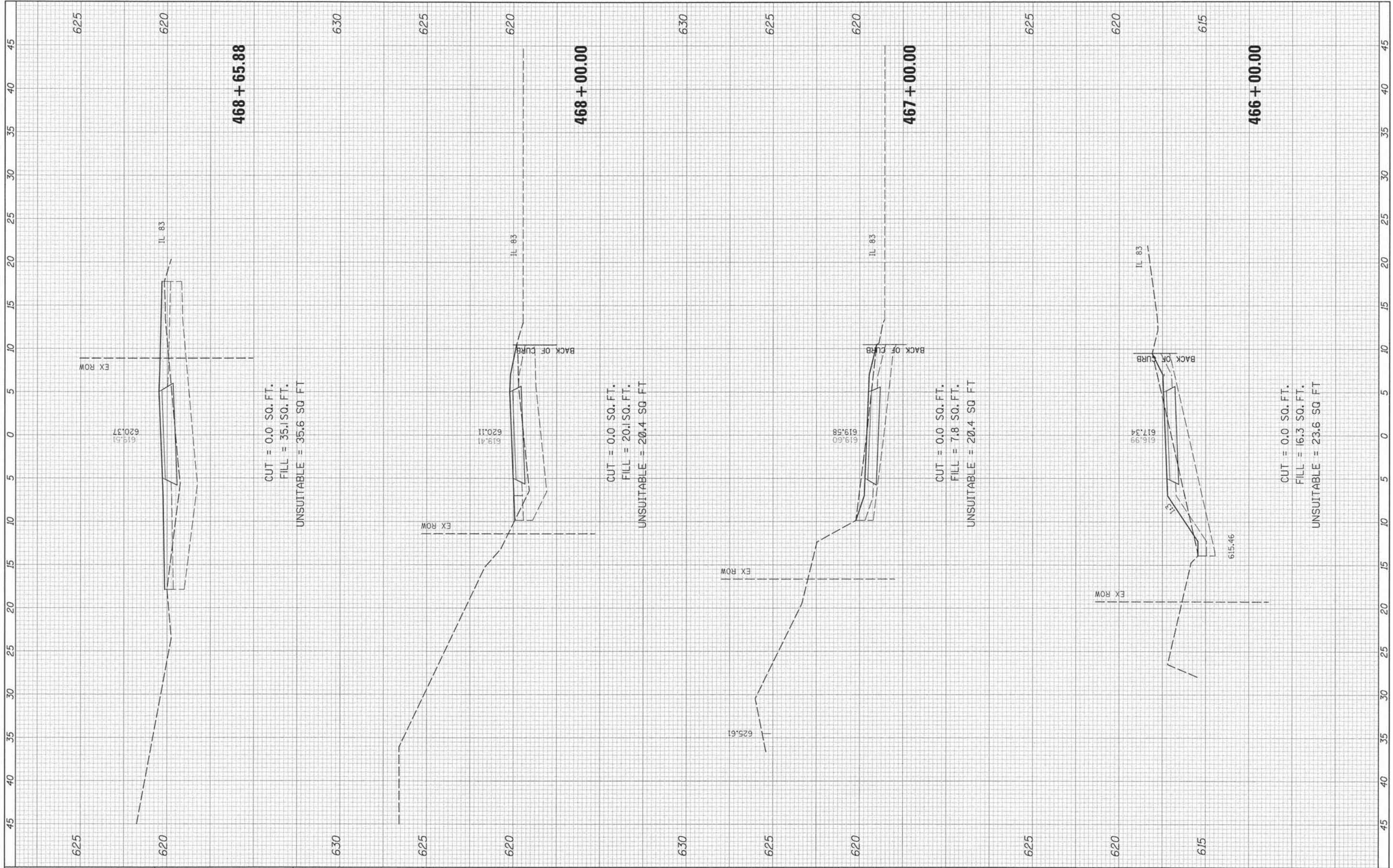
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#MODELNAME#	PLOT SCALE = 5.0000" / IN.	DRAWN: -	REVISED: -		SCALE:	SHEET	OF	SHEETS	STA. 462+00.00	TO STA. 465+00.00	COOK	109	83
	PLOT DATE = 10/27/2013	CHECKED: -	REVISED: -								CONTRACT NO. 63834		
		DATE: -	REVISED: -								ILLINOIS FED. AID PROJECT		

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

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

630

630



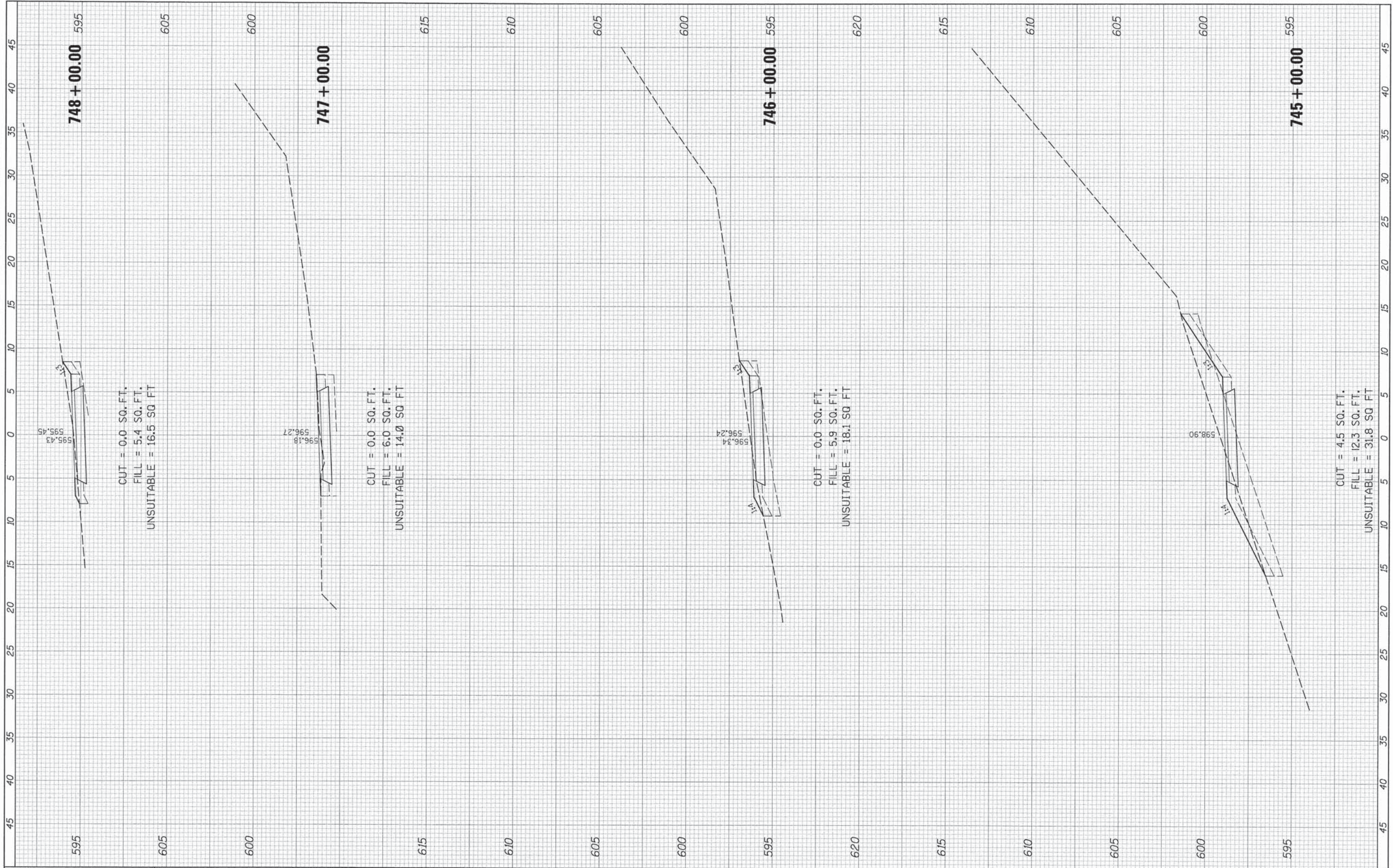
FILE NAME *	USER NAME = David.Landwehr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET	OF	SHEETS	STA. 466+00.00 TO STA. 468+65.88			

FINAL SURVEY	DATE
SUBMITTED	BY
NOTE BOOK	
TEMPLATE	
AREAS	
CHECKED	

ORIGINAL SURVEY	DATE
SUBMITTED	BY
NOTE BOOK	
TEMPLATE	
AREAS	
CHECKED	

600

600



FILE NAME: #FILEL#
#MODELNAME#

USER NAME: David.Landwehr
PLOT SCALE: 5.0000" / IN.
PLOT DATE: 10/26/2013

DESIGNED: -
DRAWN: -
CHECKED: -
DATE: -

REVISED: -
REVISED: -
REVISED: -
REVISED: -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

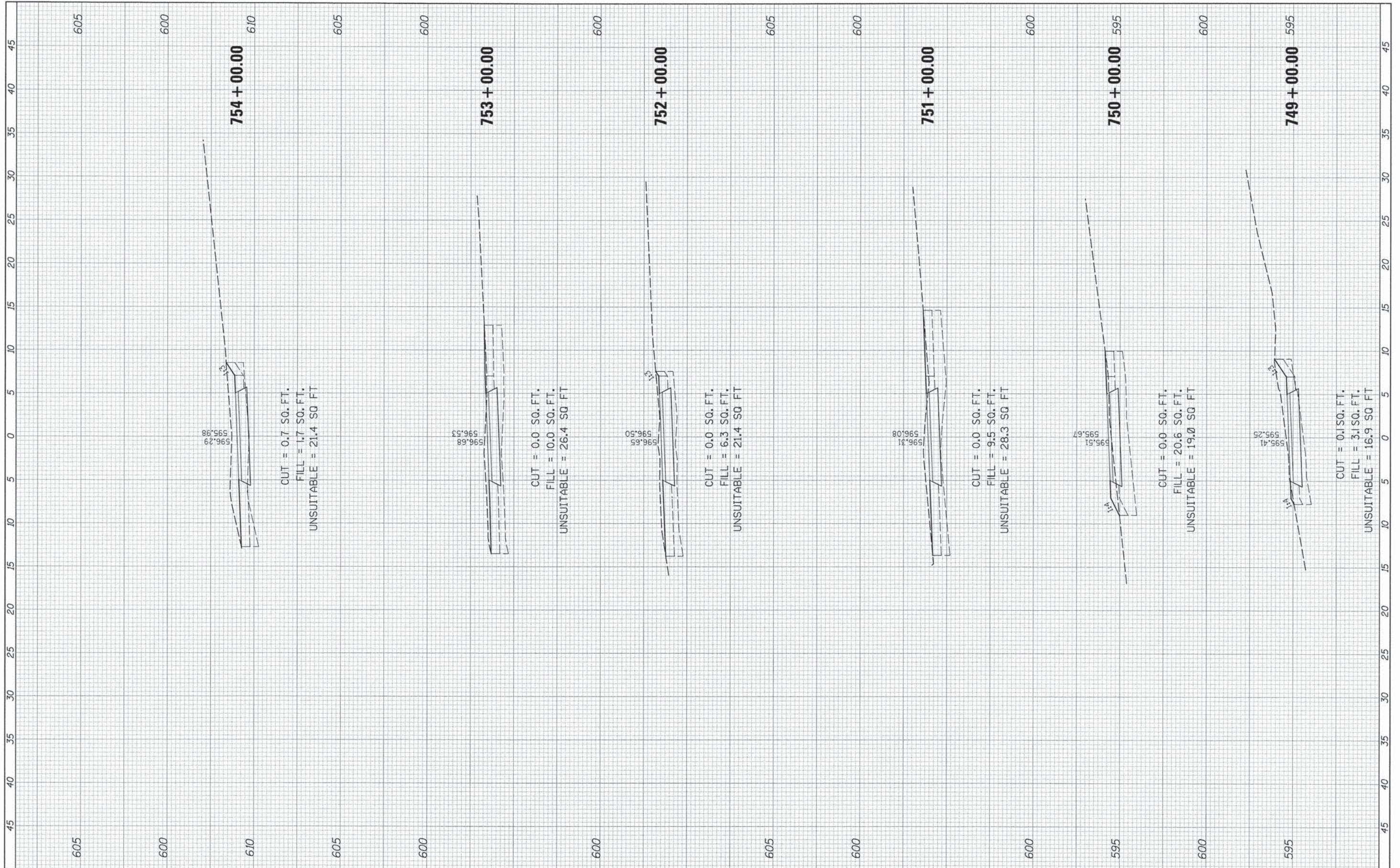
CAL-SAG GREENWAY TRAIL CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 745+00.00 TO STA. 748+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	I3-P4000-00-BT	COOK	109	85
CONTRACT NO. 63834			ILLINOIS FED. AID PROJECT	

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

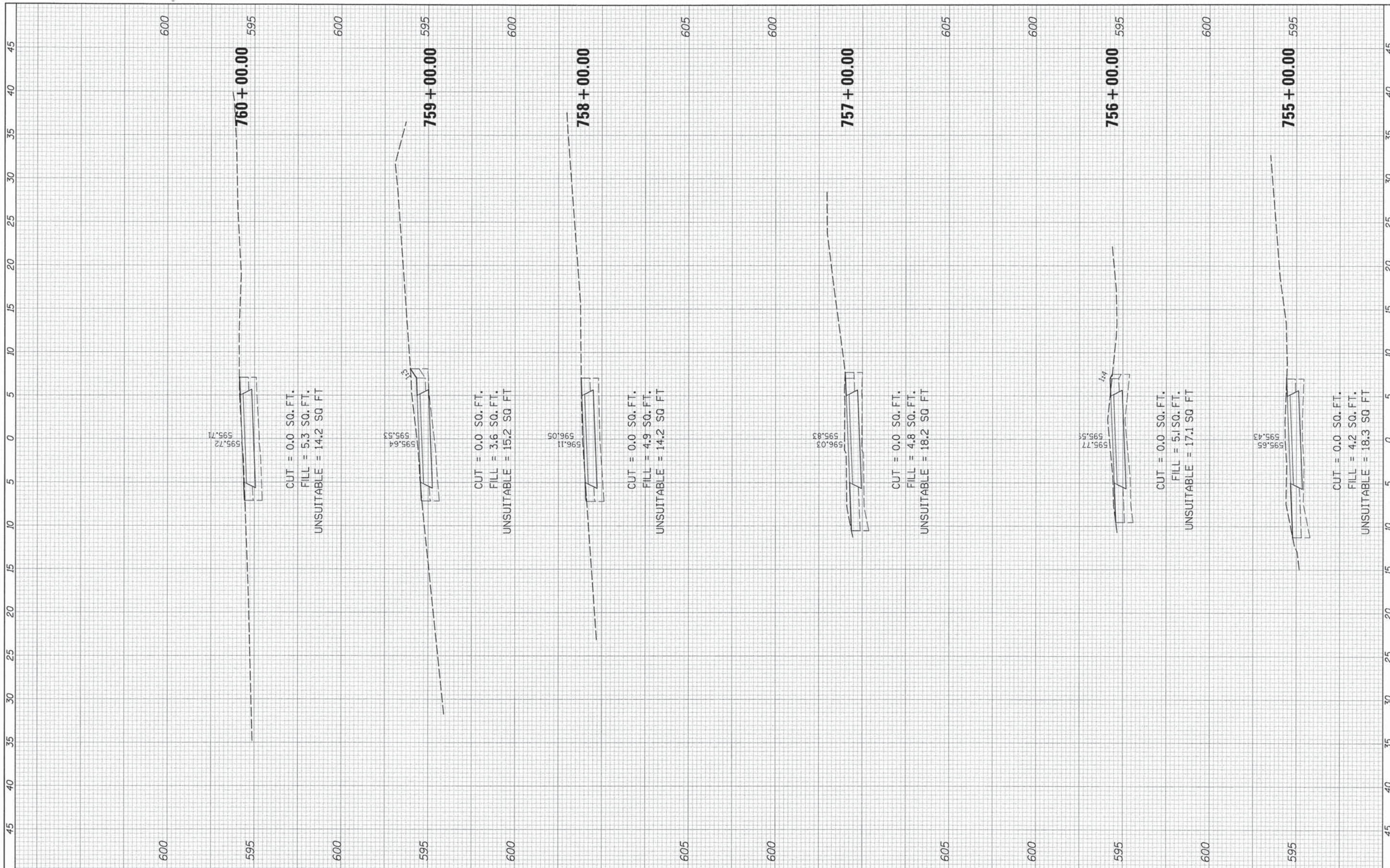
ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		



FILE NAME :	USER NAME = David.Landwehr	DESIGNED =	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE# :	PLOT SCALE = 5,0000 ' / IN.	DRAWN =	REVISED =				13-P4000-00-BT	COOK	109	86	
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		DATE =	REVISED =			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET	OF	SHEETS	STA. 749+00.00	TO STA. 754+00.00	

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

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



FILE NAME	USER NAME = David.Landwehr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET OF SHEETS STA. 755+00.00 TO STA. 760+00.00					

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

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

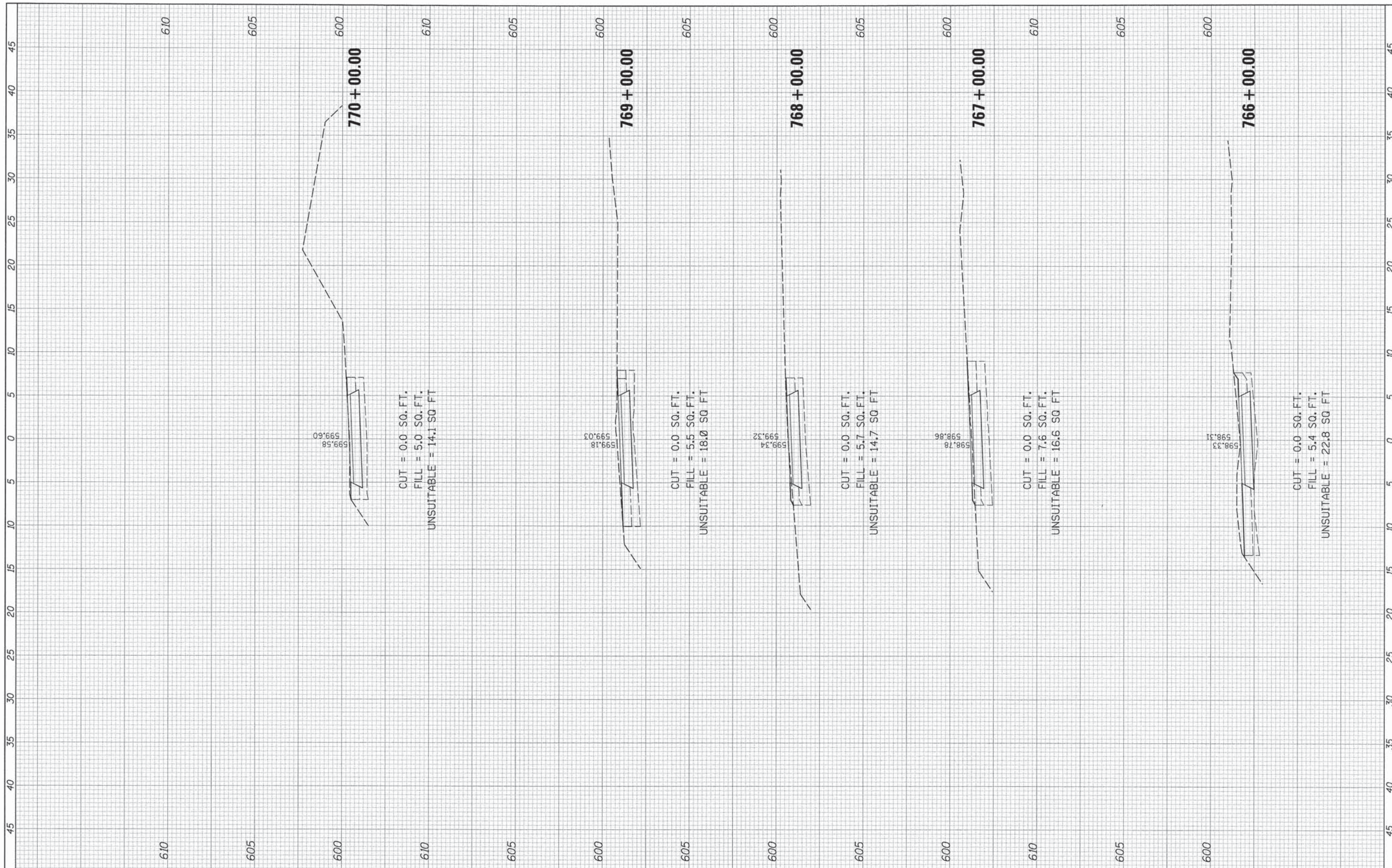


FILE NAME =	USER NAME = David.Landwehr	DESIGNED =	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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#MODELNAME#	PLOT DATE = 10/26/2013	CHECKED =	REVISED =			CONTRACT NO. 63834				
		DATE =	REVISED =			ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. 761+00.00 TO STA. 765+00.00

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

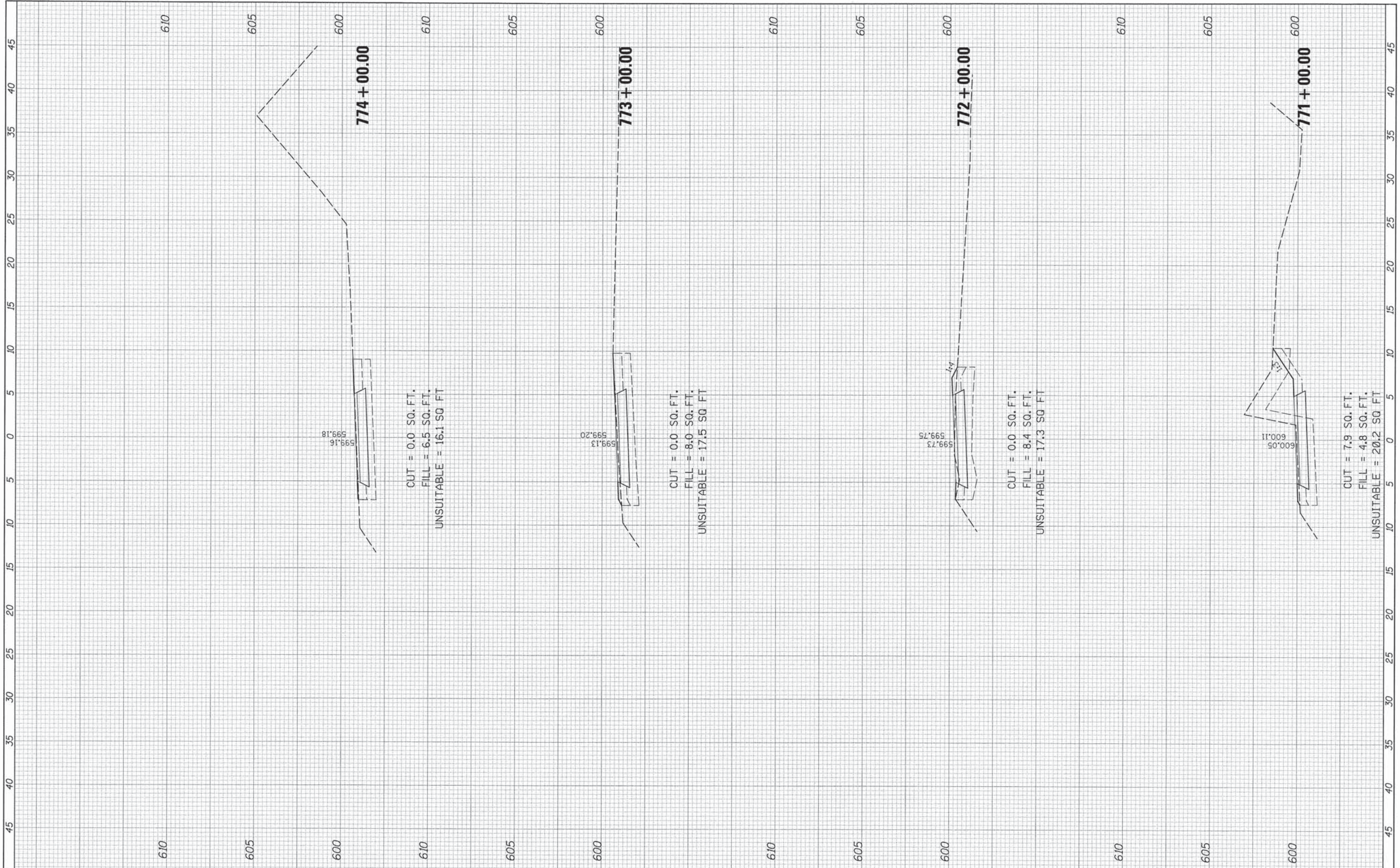
ORIGINAL SURVEY	CHECKED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS CHECKED		



FILE NAME =	USER NAME = David.Landwehr	DESIGNED =	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#	PLOT SCALE = 5.0000" / IN.	DRAWN =	REVISED =		SCALE:	SHEET	OF	SHEETS	STA. 766+00.00	TO STA. 770+00.00	13-P4000-00-BT	COOK	109	89
#MODELNAME#	PLOT DATE = 10/27/2013	CHECKED =	REVISED =		CONTRACT NO. 63834									
		DATE =	REVISED =		ILLINOIS FED. AID PROJECT									

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

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



FILE NAME =	USER NAME = David.Landwehr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS SCALE: SHEET OF SHEETS STA. 771+00.00 TO STA. 774+00.00				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE -	REVISED -						ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMP. AREAS		

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

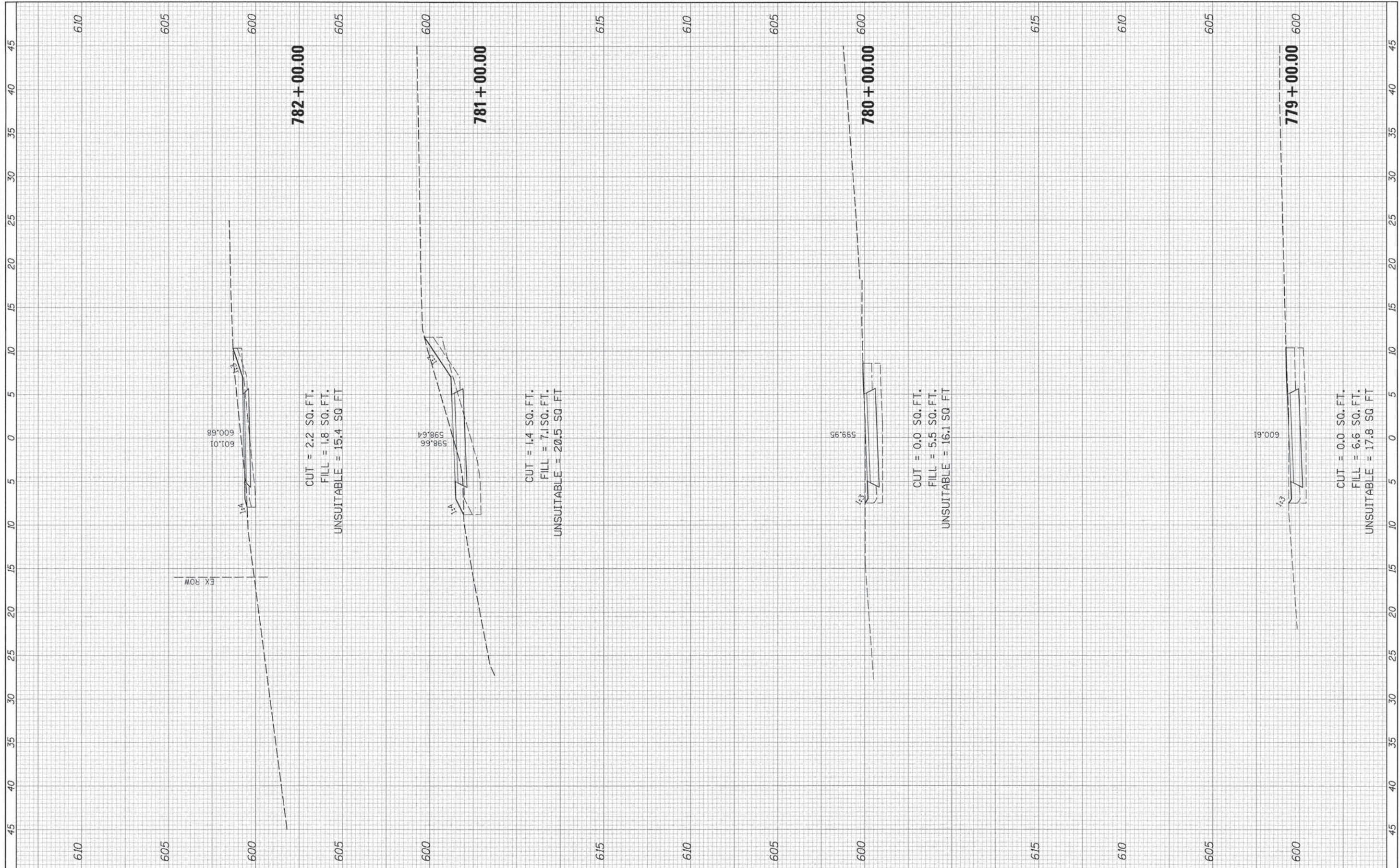


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		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. 775+00.00 TO STA. 778+00.00

FINAL SURVEY NO.	SURVEYED BY	DATE
NOTE BOOK NO.	TEMPLATE	
AREAS CHECKED		

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

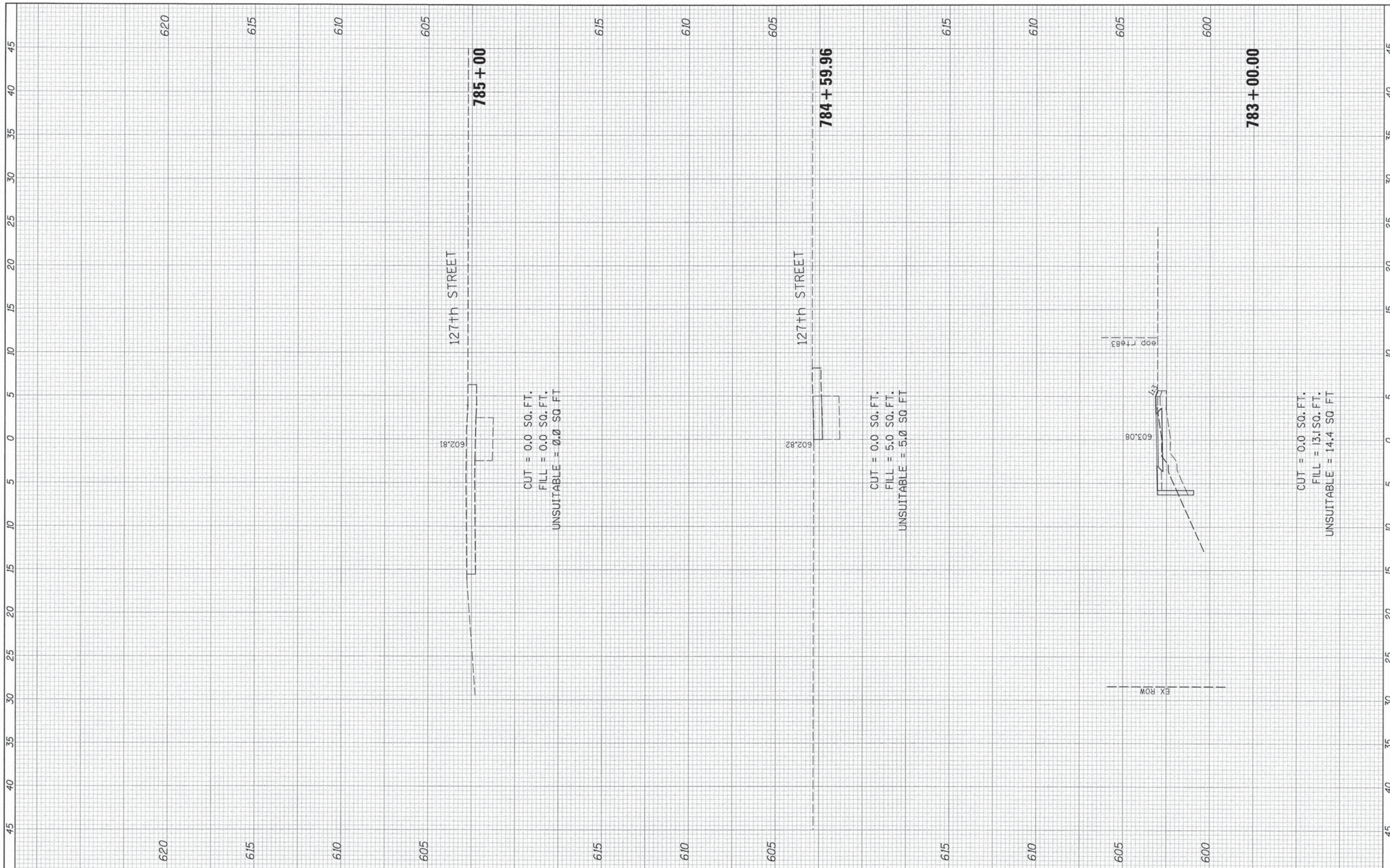


FILE NAME =	USER NAME = David.Landwehr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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#MODELNAME#	PLOT DATE = 10/27/2013	CHECKED -	REVISED -					CONTRACT NO. 63834				
		DATE -	REVISED -					[ILLINOIS] FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. 779+00.00 TO STA. 782+00.00

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

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



CUT = 0.0 SQ. FT.
 FILL = 0.0 SQ. FT.
 UNSUITABLE = 0.0 SQ. FT.

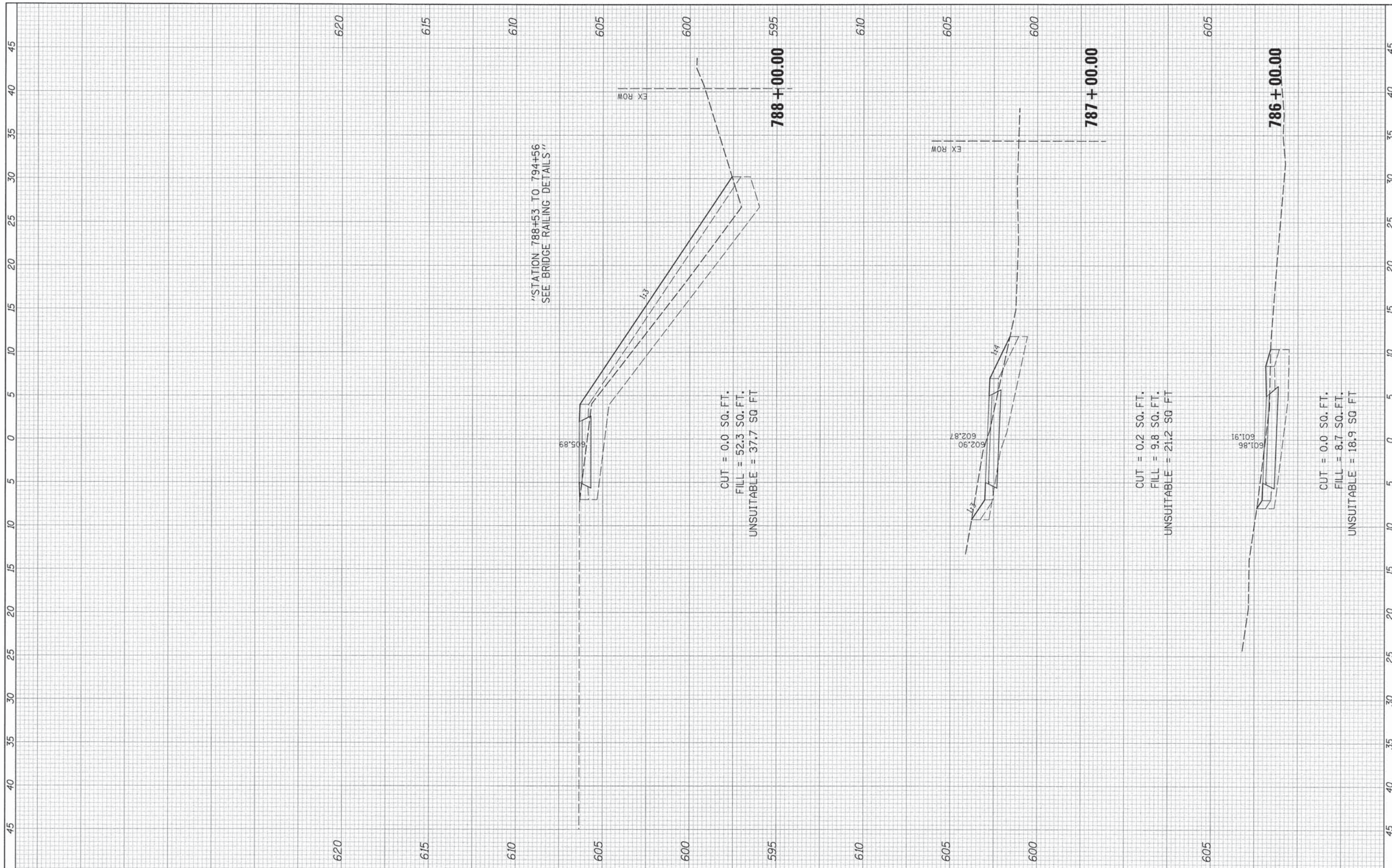
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 FILL = 5.0 SQ. FT.
 UNSUITABLE = 5.0 SQ. FT.

CUT = 0.0 SQ. FT.
 FILL = 13.1 SQ. FT.
 UNSUITABLE = 14.4 SQ. FT.

FILE NAME =	USER NAME = David.Landwehr	DESIGNED =	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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#MODELNAME#	PLOT DATE = 10/27/2013	CHECKED =	REVISED =			CONTRACT NO. 63834		ILLINOIS FED. AID PROJECT		
		DATE =	REVISED =			SCALE:	SHEET	OF	SHEETS	STA. 783+00.00 TO STA. 784+84.86

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

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



"STATION 788+53 TO 794+56
SEE BRIDGE RAILING DETAILS"

CUT = 0.0 SQ. FT.
FILL = 52.3 SQ. FT.
UNSUITABLE = 37.7 SQ. FT.

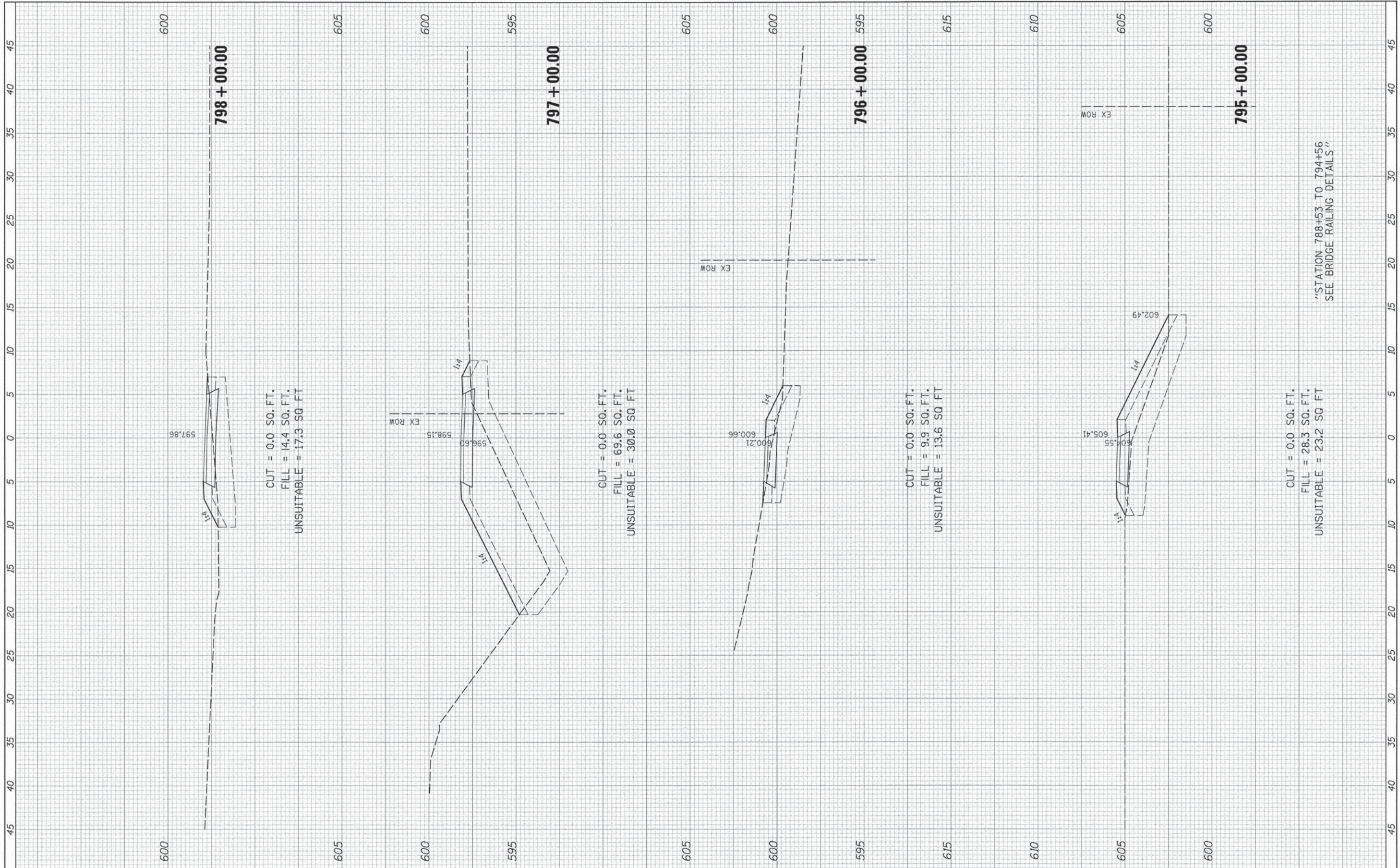
CUT = 0.2 SQ. FT.
FILL = 9.8 SQ. FT.
UNSUITABLE = 21.2 SQ. FT.

CUT = 0.0 SQ. FT.
FILL = 8.7 SQ. FT.
UNSUITABLE = 18.9 SQ. FT.

FILE NAME =	USER NAME = David.Landwehr	DESIGNED =	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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#MODELNAME#	PLOT DATE = 10/27/2013	CHECKED =	REVISED =					CONTRACT NO. 63834				
		DATE =	REVISED =					ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET	OF	SHEETS	STA. 786+00.00	TO STA. 788+00.00		

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

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

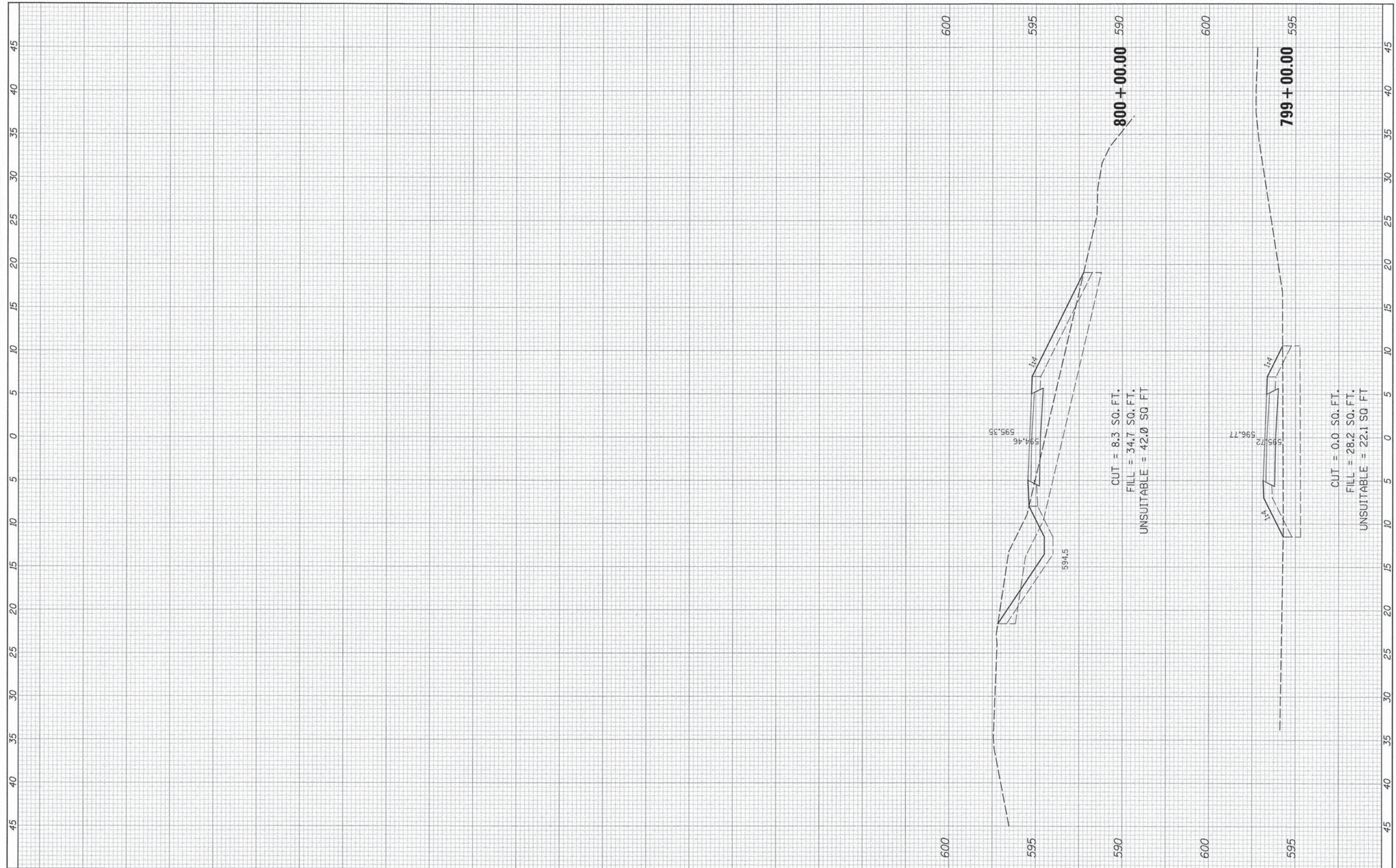


"STATION 788+53 TO 794+56
SEE BRIDGE RAILING DETAILS"

FILE NAME =	USER NAME = David.Landwehr	DESIGNED =	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE =	REVISED =					ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET	OF	SHEETS	STA. 795+00.00 TO STA. 798+00.00			

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

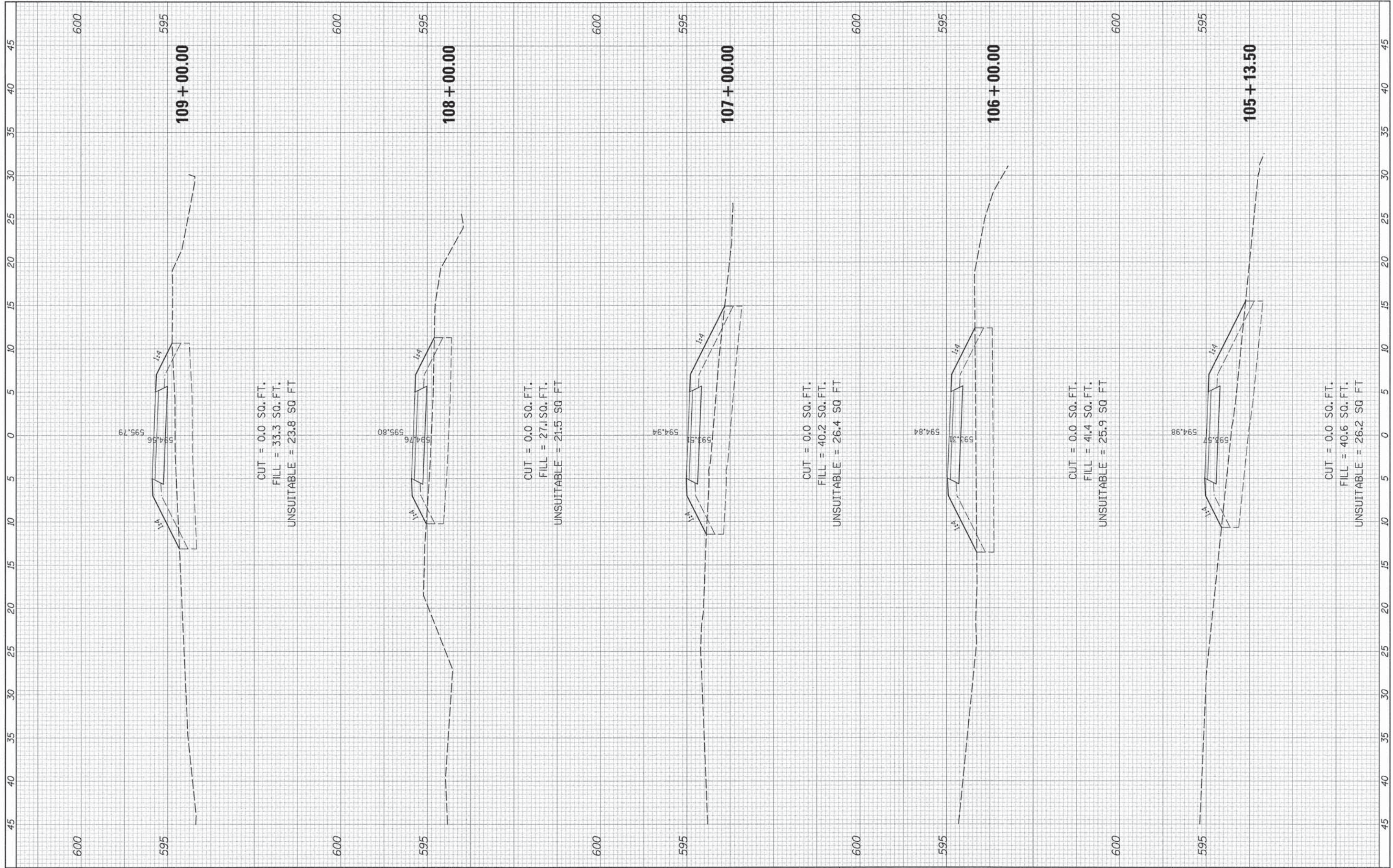
ORIGINAL SURVEY NO.	DESIGNED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



FILE NAME	USER NAME = David.Landwehr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET	OF	SHEETS	STA. 799+00.00	TO STA. 800+00.00		

FINAL SURVEY NO.	DATE
REVISED SURVEY NO.	DATE
NOTE BOOK NO.	DATE
TEMPLATE AREAS CHECKED	
BY	

ORIGINAL SURVEY NO.	DATE
REVISED SURVEY NO.	DATE
NOTE BOOK NO.	DATE
TEMPLATE AREAS CHECKED	
BY	



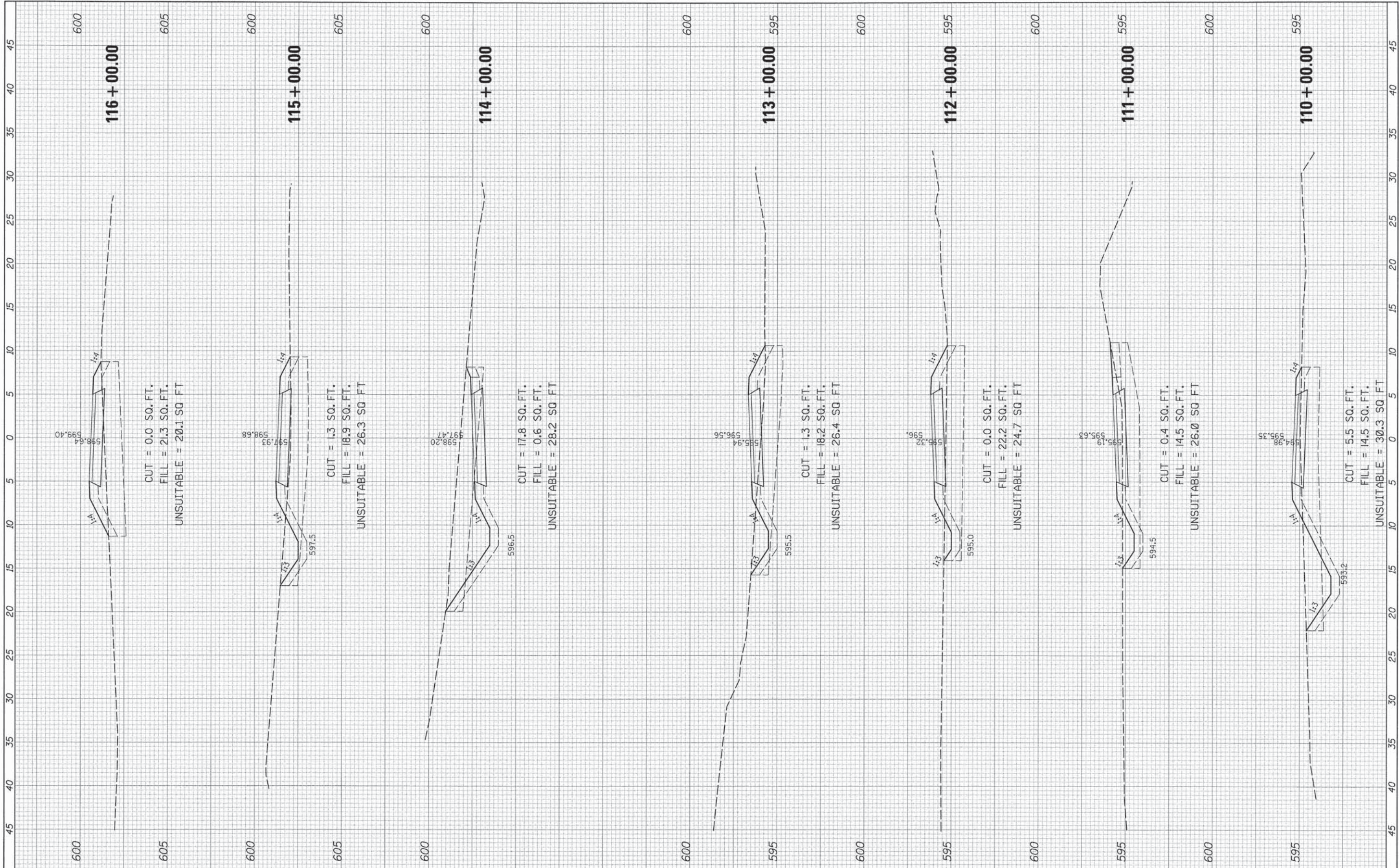
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		DATE -	REVISED -									

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

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

605

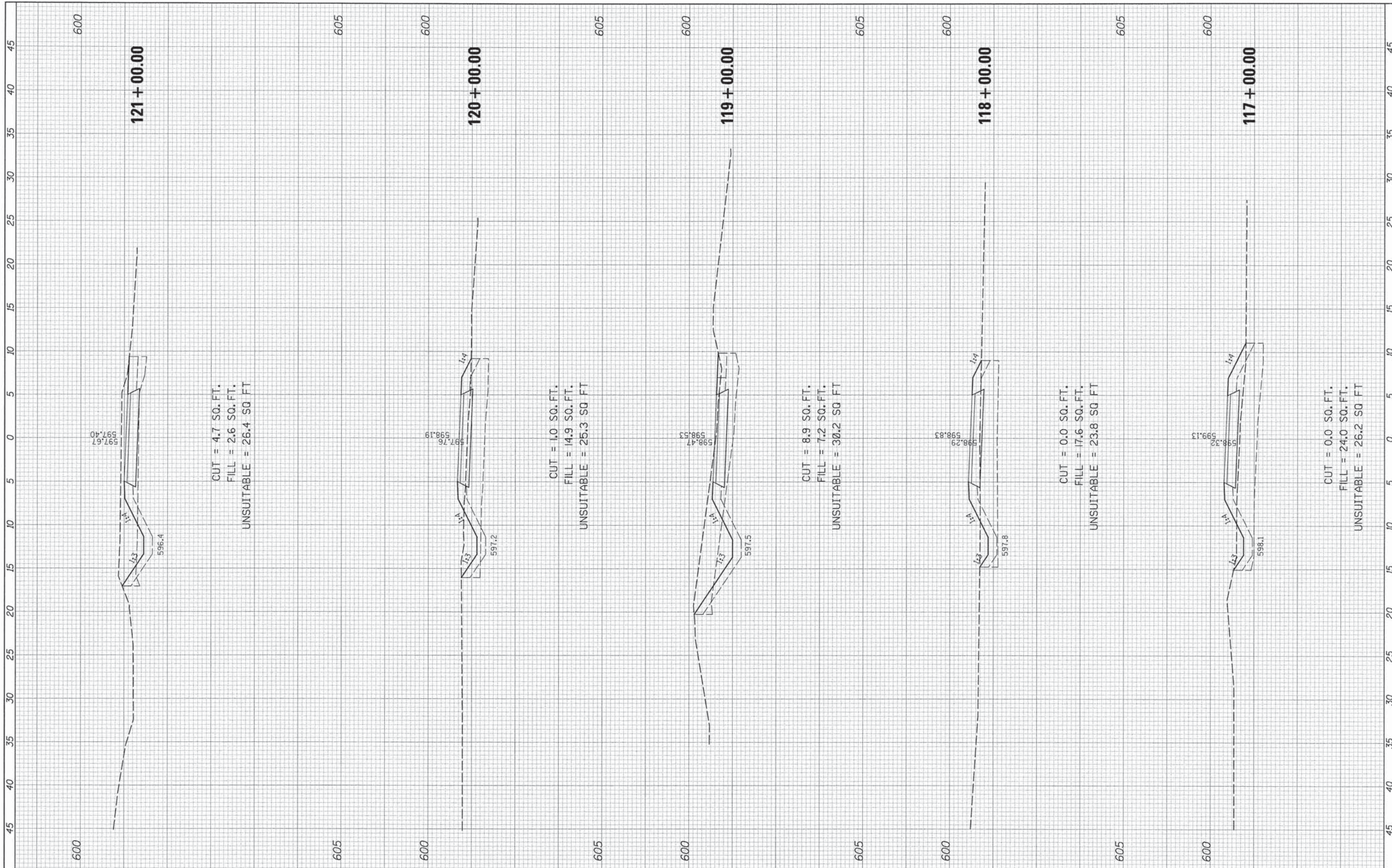
605



FILE NAME *	USER NAME = David.Landwehr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#	PLOT SCALE = 5.0000" / IN.	DRAWN -	REVISED -			13-P4000-00-BT	COOK	109	98	
#MODELNAME#	PLOT DATE = 10/29/2013	CHECKED -	REVISED -			CONTRACT NO. 63834		ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA. 110+00.00 TO STA. 116+00.00

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

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



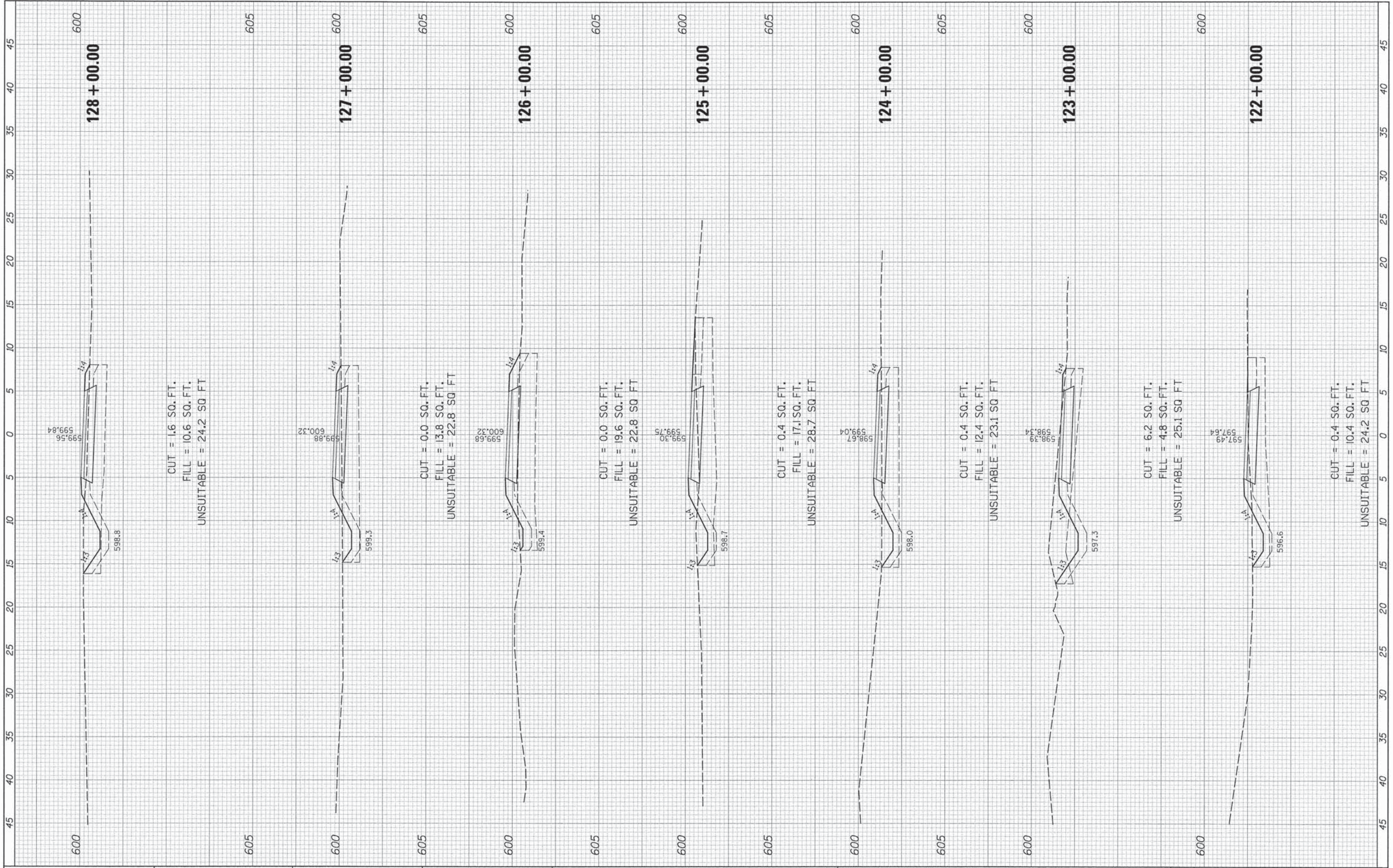
FILE NAME *	USER NAME = David.Landwehr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL*	PLOT SCALE = 5.0000' / IN.	DRAWN -	REVISED -					13-P4000-00-BT	COOK	109	99	
#MODELNAME*	PLOT DATE = 10/29/2013	CHECKED -	REVISED -					CONTRACT NO. 63834				
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET	OF	SHEETS	STA. 117+00.00 TO STA. 121+00.00			

FINAL SURVEY NO.	REVISIONS	DATE
NOTE BOOK NO.	PLOTTED	BT
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	REVISIONS	DATE
NOTE BOOK NO.	PLOTTED	BT
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

605

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FILE NAME	USER NAME = David.Landwehr	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAL-SAG GREENWAY TRAIL CROSS SECTIONS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILEL#	PLOT SCALE = 5,0000' = 1".	DRAWN -	REVISED -			13-P4000-00-BT	COOK	109	100		
#MODELNAME#	PLOT DATE = 10/29/2013	CHECKED -	REVISED -			CONTRACT NO. 63834					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	SHEET	OF	SHEETS	STA. 122+00.00 TO STA. 128+00.00		