

01-20-2023 LETTING ITEM 043


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
2696	15-00077-00-BT	COOK	86	1
		ILLINOIS	CONTRACT NO 61H84	


FOR INDEX OF SHEETS, SEE SHEET NO. 2

H.W. LOCHNER, INC.
ANDREW W. MCKENNA, P.E.
#062-053651
DATE: 01-24-2022
APPLIES TO SHEET 1 - 38, 44 - 86
EXPIRATION DATE: 11/30/2023



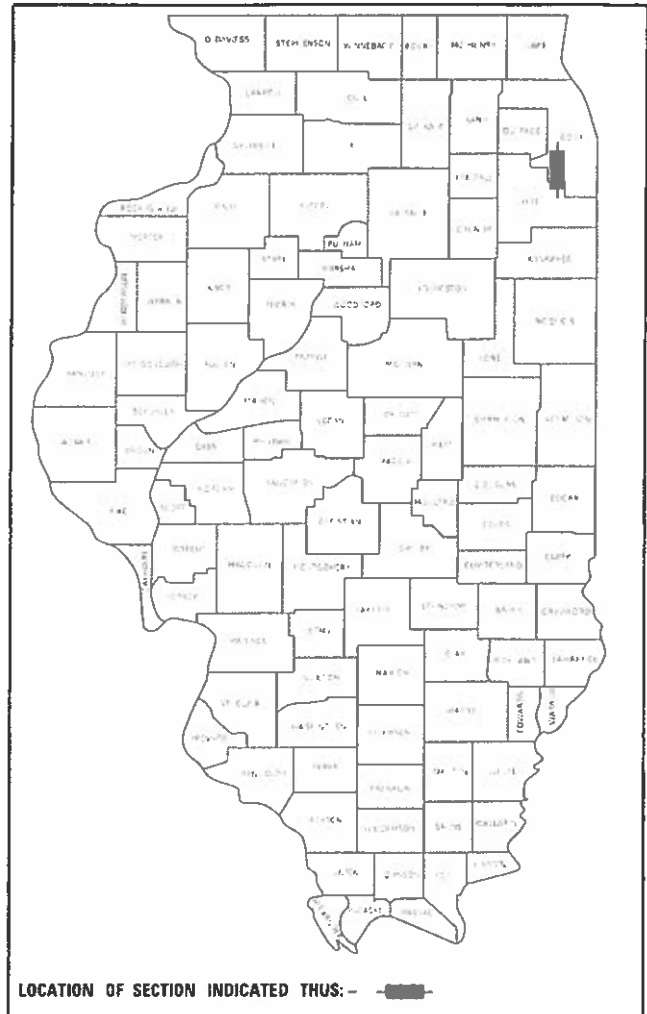
Andrew McKenna

H.W. LOCHNER, INC.
JIANQING HONG, S.E.
#081-006053
DATE: 01-24-2022
APPLIES TO SHEET 39 - 43
EXPIRATION DATE: 11/30/2024



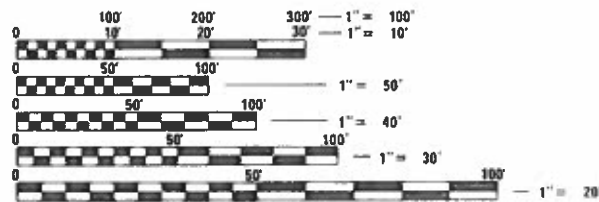
Robert Hong

FAU ROUTE 2696 (104TH AVENUE)
SHARED-USE PATH CONSTRUCTION
163RD PLACE TO 159TH STREET (US-6)
SECTION: 15-00077-00-BT
PROJECT NO.: EIBV(945)
VILLAGE OF ORLAND PARK
COOK COUNTY
JOB NO. C-91-201-22



FAU ROUTE 2696 (104TH AVENUE)
FUNCTIONAL CLASSIFICATION
MAJOR COLLECTOR
2018 ADT = 3550
POSTED SPEED LIMIT = 45 MPH

IL RTE 7/U.S. RTE 6 (159TH ST)
OTHER PRINCIPAL ARTERIAL
EXISTING ADT (2021) 18,400 WEST OF 104TH
EXISTING ADT (2021) 28,600 EAST OF 104TH
DESIGN SPEED = 45 MPH
POSTED SPEED = 40 TO 45 MPG

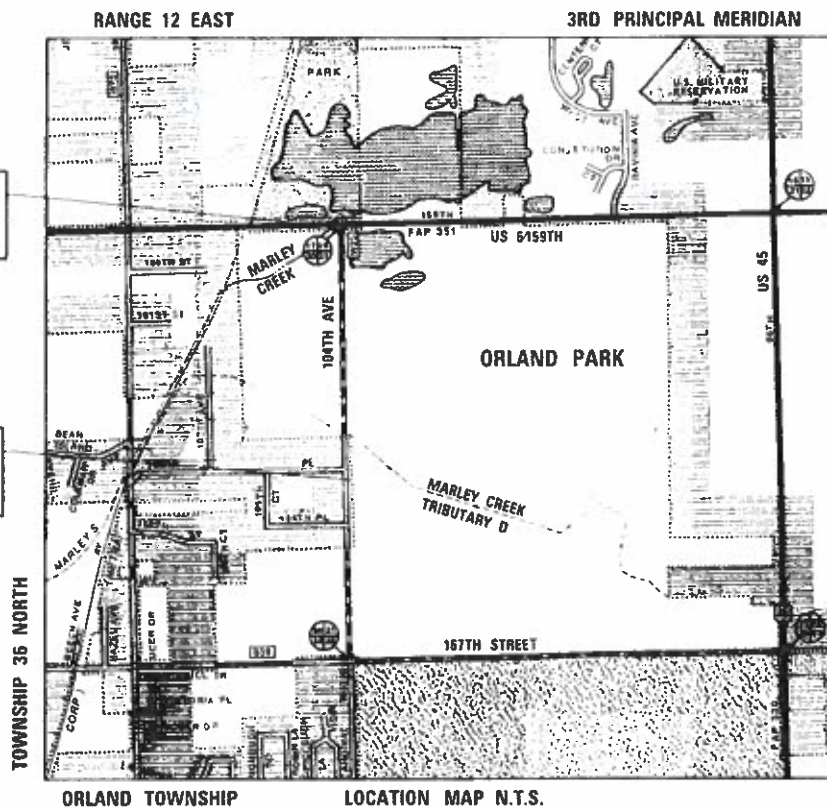


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

END IMPROVEMENT
STA. 129 + 57.81

BEGIN IMPROVEMENT
STA. 99 + 00.00



ORLAND TOWNSHIP LOCATION MAP N.T.S.

GROSS AND NET LENGTH = 3057.00 FT. = 0.579 MILE

LOCHNER
H W LOCHNER, INC
225 WEST WASHINGTON STREET
12 TH FLOOR
CHICAGO, ILLINOIS 60605

CONTRACT NO. 61H84

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED 10-31-22 DATE
[Signature] SIGNATURE
VILLAGE OF ORLAND PARK VILLAGE MANAGER

PASSED NOV 7 2022 DATE
[Signature] SIGNATURE
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW November 7, 2022 DATE
[Signature] SIGNATURE
REGIONAL ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E. SCHAUMBURG, IL

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STANDARDS

HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 424001-11 PERPENDICULAR CURB RAMPS FOR SIDEWALKS
- 424026-03 ENTRANCE / ALLEY PEDESTRIAN CROSSINGS
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 601001-05 PIPE UNDERDRAINS
- 601101-02 CONCRETE HEADWALL FOR PIPE UNDERDRAIN
- 602001-02 CATCH BASIN TYPE A
- 602011-02 CATCH BASIN TYPE C
- 602301-04 INLET TYPE A
- 602401-07 PRECAST MANHOLE TYPE A 4' DIAMETER
- 602421-09 PRECAST MANHOLE TYPE A 9' DIAMETER
- 604091-05 FRAME AND GRATE TYPE 24
- 606001-08 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630106-02 LONG-SPAN GUARDRAIL OVER CULVERT
- 631011-10 TRAFFIC BARRIER TERMINAL, TYPE 2
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701502-09 URBAN LANE CLOSURE, 2L, 2W, WITH BIRIDIRECTIONAL LEFT TURN LANE
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 720011-01 METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
- 725001-01 OBJECT AND TERMINAL MARKERS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 731001-01 BASE FOR TELESCOPING STEEL SIGN SUPPORT
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

DISTRICT 1 STANDARDS

- BD-01 DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND CURB OR EDGE GREATER THAN OR EQUAL TO 15' (4.5m)
- BD-34 DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY. 1 SPL.
- BD-51 BENCHING DETAIL FOR EMBANKMENT WIDENING
- TC-10 TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
- TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
- TC-16 SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
- TC-22 ARTERIAL ROAD INFORMATION SIGN
- TC-26 DRIVEWAY ENTRANCE SIGNING

COOK COUNTY DOTH STANDARD

- C-003 PCC SIDEWALK CONSTRUCTION

COMMITMENTS

1. IN THE AREA WHERE A SLOPE REINFORCEMENT SYSTEM IS USED, SLOPES WILL BE NO STEEPER THAN 1:1.

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USER NAME = GG	DESIGNED - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	2
CONTRACT NO. 61H84				
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF THE OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
- ALL DAMAGE TO VILLAGE OR IDOT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE VILLAGE OR IDOT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS.
- THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (1-800-892-0123) TO HAVE THE LOCATION OF EXISTING UTILITIES STAKED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO EXCAVATION.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF ORLAND PARK.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- TEN FOOT (10) TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTERS AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN.
- REMOVAL OF EXISTING AGGREGATE SHOULDERS AND AGGREGATE DRIVEWAYS ARE INCLUDED IN QUANTITIES FOR EARTH EXCAVATION.
- THE OFFSETS TO DRAINAGE STRUCTURES ARE TO THE CENTER OF THE STRUCTURE. THE RIM ELEVATIONS FOR DRAINAGE STRUCTURES LOCATED WITHIN CURB AND GUTTER ARE AT THE EDGE OF PAVEMENT. THE RIM ELEVATIONS FOR DRAINAGE STRUCTURES LOCATED OUTSIDE THE CURB AND GUTTER ARE TO THE CENTER OF STRUCTURE (CONCENTRIC STRUCTURE ASSUMED FOR CALCULATION OF RIM ELEVATION).
- THE FRAME AND LIDS FOR MANHOLES LOCATED ALONG THE SHARED-USE PATH SHALL BE LOCATED BEYOND THE PATH PAVEMENT LIMITS (ECCENTRIC MANHOLES SHALL BE USED ADJACENT TO PATH).
- PROPERTY OWNERS OF THE DRIVEWAYS SCHEDULED TO BE CLOSED NEED TO BE GIVEN A FORMAL LETTER OF NOTIFICATION 48 HOURS BEFORE CLOSING.
- THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR SHALL MAINTAIN EXISTING STREET ACCESS AND EXISTING DRIVEWAY ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT UNLESS OTHERWISE NOTED ON THE PLANS.
- AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT (CU YD) WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 302.04 (01/01/2012) AND THE IDOT SUBGRADE STABILITY MANUAL (05/01/2005). IF UNSTABLE AND/OR UNSUITABLE SOILS IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
- ALL PIPE UNDERDRAIN EXTENSIONS SHALL BE PLACED AT THE DEPTH OF 30" BELOW THE TOP OF PROPOSED PAVEMENT OR AS DEEP AS POSSIBLE. THE COST OF MAKING PIPE UNDERDRAIN CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.
- THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR 1.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
HMA WIDENING (104TH AVENUE)		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 1 1/2"	4% @ 70 Gyr.	LR 1030-2
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/2"	4% @ 70 Gyr.	LR 1030-2
HOT-MIX ASPHALT BASE COURSE WIDENING (HMA BINDER IL-19 mm), 8"	4% @ 70 Gyr.	LR 1030-2
DRIVEWAYS (COMMERCIAL)		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 Gyr.	LR 1030-2
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm), CE -8"	4% @ 50 Gyr.	LR 1030-2
SHARED-USE PATH		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 1 1/2"	4% @ 50 Gyr.	LR 1030-2
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/2"	4% @ 50 Gyr.	LR 1030-2
SHOULDERS (GUARDRAIL STABILIZATION)		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 1 1/2"	4% @ 70 Gyr.	LR 1030-2
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6 1/2"	4% @ 70 Gyr.	LR 1030-2

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

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 RECLAIMED MATERIALS SPECIFICATIONS.

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LOCHNER
 CONSULTING ENGINEERS & PLANNERS
 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606
 312-372-3011 (P) / 312-372-5974 (F)

USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

GENERAL NOTES 104TH AVENUE SHARED-USE PATH

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	3
CONTRACT NO. 61H84				
		ILLINOIS	FED. AID PROJECT	

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SHARED-USE PATH SIDEWALK
					0028
					70% FED 30% VOP
	20200100	EARTH EXCAVATION	CU YD	3425	3425
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	3471	3471
	20400800	FURNISHED EXCAVATION	CU YD	1900	1900
	20800150	TRENCH BACKFILL	CU YD	221	221
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	137	137
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	2778	2778
*	25000110	SEEDING, CLASS 1A	ACRE	1.00	1.00
*	25000310	SEEDING, CLASS 4	ACRE	0.50	0.50
*	25000312	SEEDING, CLASS 4A	ACRE	0.50	0.50
*	25000314	SEEDING, CLASS 4B	ACRE	0.25	0.25
*	25000350	SEEDING, CLASS 7	ACRE	2.25	2.25
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	90	90
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90	90
*	25000750	MOWING	ACRE	2.25	2.25
*	25100125	MULCH, METHOD 3	ACRE	2.25	2.25
*	25100900	TURF REINFORCEMENT MAT	SQ YD	3369	3369
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	225	225
	28000305	TEMPORARY DITCH CHECKS	FOOT	320	320
	28000400	PERIMETER EROSION BARRIER	FOOT	1072	1072

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SHARED-USE PATH SIDEWALK
					0028
					70% FED 30% VOP
*	28000510	INLET FILTERS	EACH	15	15
	28100105	STONE RIPRAP, CLASS A3	SQ YD	30	30
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	46	46
	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	2725	2725
	35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	22	22
	35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	1519	1519
	35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	168	168
	35600708	HOT-MIX ASPHALT BASE COURSE WIDENING, 8"	SQ YD	574	574
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	7617	7617
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	129	129
	40603080	HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N50	TON	370	370
	40603085	HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N70	TON	81	81
	40604060	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N50	TON	241	241
	40604062	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N70	TON	49	49
	42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	195	195
	44000100	PAVEMENT REMOVAL	SQ YD	839	839
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	168	168
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	102	102
	44000600	SIDEWALK REMOVAL	SQ FT	1083	1083

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LOCHNER
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PLOT SCALE =	DRAWN - GG	REVISED -
PLOT DATE = 11/22/2022	CHECKED - AM	REVISED -
	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK
 SUMMARY OF QUANTITIES
 104TH AVENUE SHARED-USE PATH

SCALE:	SHEET 1 OF 3 SHEETS	STA. TO STA.
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F.A.U. RTE. 2696	SECTION 15-00077-00-BT	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 4
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SHARED-USE PATH SIDEWALK
					0028
					80% FED 20% VOP
	44003100	MEDIAN REMOVAL	SQ FT	126	126
	44004250	PAVED SHOULDER REMOVAL	SQ YD	1178	1178
	44200942	CLASS B PATCHES, TYPE III, 8 INCH	SQ YD	16	16
	44213200	SAW CUTS	FOOT	2558	2558
	48101498	AGGREGATE SHOULDERS, TYPE B 4"	SQ YD	684	684
	48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	500	500
	50104400	CONCRETE HEADWALL REMOVAL	EACH	4	4
	50300225	CONCRETE STRUCTURES	CU YD	5	5
	50300300	PROTECTIVE COAT	SQ YD	15	15
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1293	1293
	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	7	7
	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	1
	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1
	54213717	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 72"	EACH	1	1
	542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	43	43
	542A0277	PIPE CULVERTS, CLASS A, TYPE 1 72"	FOOT	7	7
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	585	585
	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	47	47
	60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	6	6

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SHARED-USE PATH SIDEWALK
					0028
					80% FED 20% VOP
	60108206	PIPE UNDERDRAINS, TYPE 2, 6"	FOOT	23	23
	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	5	5
	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	8	8
	60219540	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	1	1
	60224469	MANHOLES, TYPE A, 9'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1
	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	1	1
	60600605	CONCRETE CURB, TYPE B	FOOT	59	59
	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	2591	2591
	60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	109	109
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	1462.5	1462.5
*	63000035	BACK SIDE PROTECTION OF GUARDRAIL	FOOT	1475	1475
*	63000370	LONG-SPAN GUARDRAIL OVER CULVERT, 25 FT SPAN	FOOT	50	50
*	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2
	63200310	GUARDRAIL REMOVAL	FOOT	1405	1405
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	15	15
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1

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LOCHNER
 CONSULTING ENGINEERS & PLANNERS
 125 WEST WASHINGTON STREET 12TH FLOOR
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PLOT DATE = 10/26/2022	CHECKED - AM	REVISED -
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VILLAGE OF ORLAND PARK

SUMMARY OF QUANTITIES			
104TH AVENUE SHARED-USE PATH			
SCALE:	SHEET 2	OF 3 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	5
CONTRACT NO. 61H84			ILLINOIS FED. AID PROJECT	

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SHARED-USE PATH SIDEWALK
					0028
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	2	2
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL. MO.	9	9
	67100100	MOBILIZATION	L SUM	1	1
	70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	5475	5745
	70107007	PAVEMENT MARKING BLACKOUT TAPE, 7"	FOOT	620	620
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	5789	5,789
	70306100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE III TAPE	SQ FT	48	48
	70306120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	FOOT	9174	9174
	70306210	TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE III TAPE	FOOT	20	20
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	1662.5	1662.5
	70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	1	1
	70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1
*	72000100	SIGN PANEL - TYPE 1	SQ FT	13	13
*	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	6	6
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3
*	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	55	55
*	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	50	50
*	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	548	548
*	78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	168	168

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SHARED-USE PATH SIDEWALK
					0028
*	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	143	143
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	60	60
*	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	69	69
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	50	50
	X0326268	REINFORCED SOIL SLOPE SYSTEM	SQ FT	9842	9842
	X0900075	COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK)	EACH	2	2
*	X2510635	HEAVY DUTY EROSION CONTROL BLANKET, SPECIAL	SQ YD	725	725
*	X2511630	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	4088	4088
	X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	40	40
*	X5091725	BICYCLE RAILING, SPECIAL	FOOT	1260	1260
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
	Z0023201	SEDIMENT CONTROL, SILT CURTAIN	EACH	2	2
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	90	90
	Z0076600	TRAINEES	hour	500	500
	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	hour	500	500

△ = 0042

NOTE: PLOT FILE NAME: I:\CHP\00001423103_CAD\001_Sheets\00114202_104thpub_003.dgn

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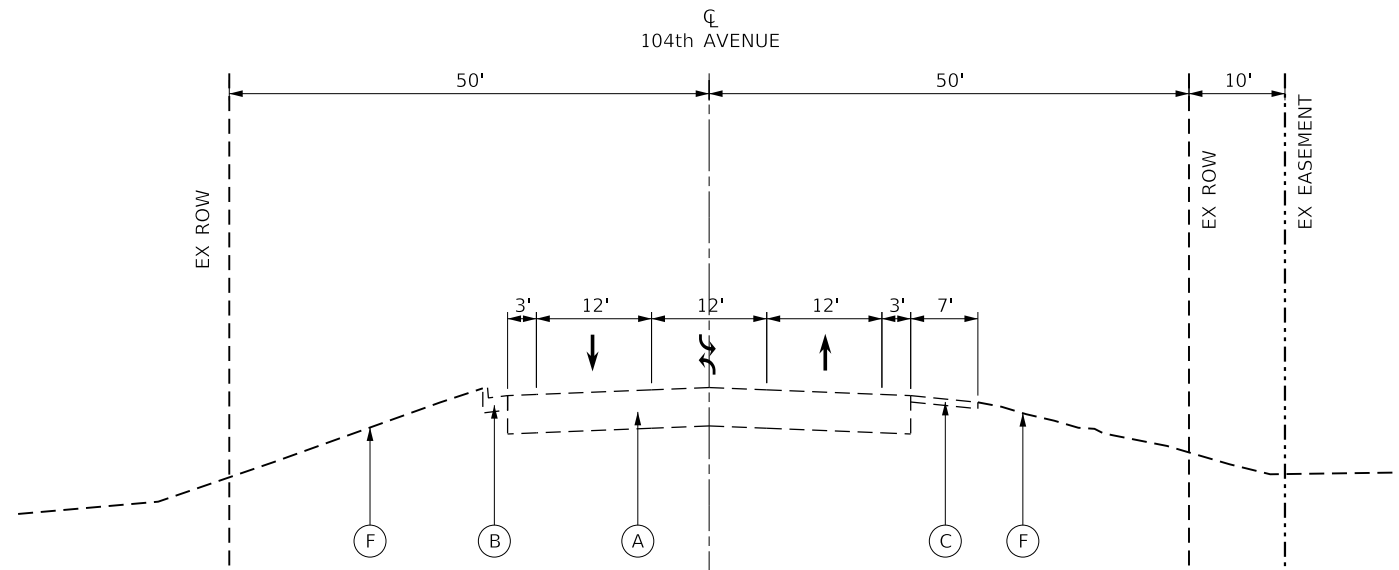
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	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

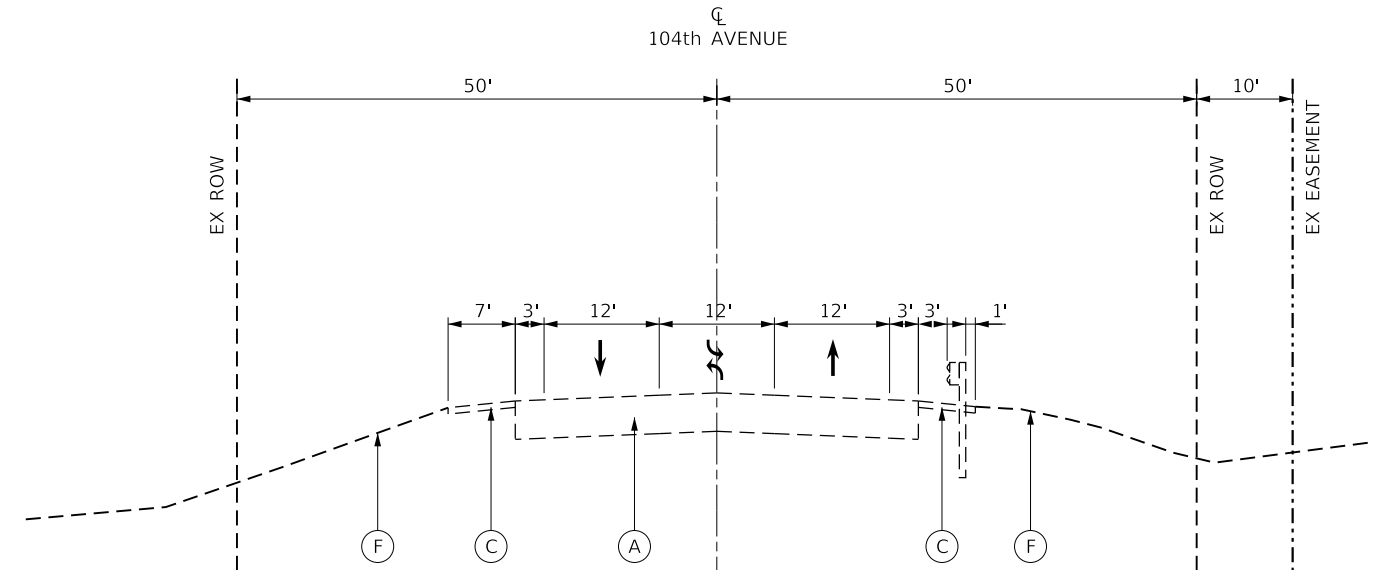
SUMMARY OF QUANTITIES
104TH AVENUE SHARED-USE PATH

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

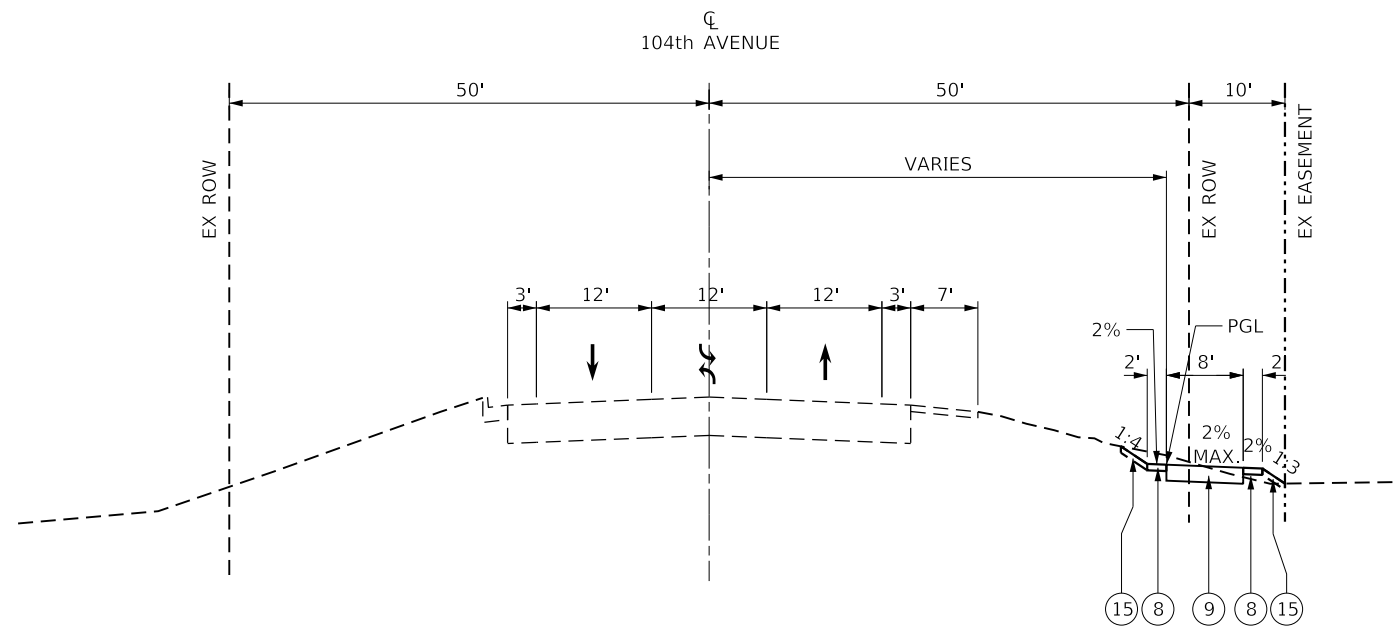
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 61H84
(ILLINOIS) FED. AID PROJECT				



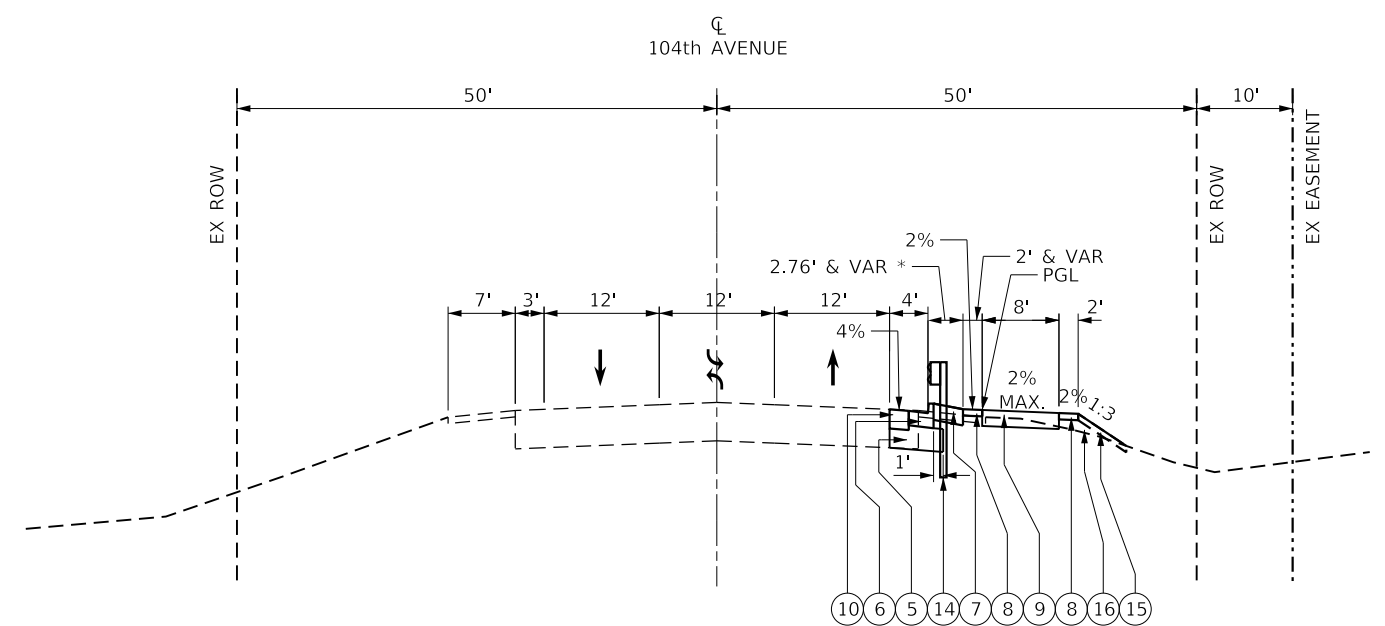
EXISTING TYPICAL SECTION
STA 99+00 TO 103+44



EXISTING TYPICAL SECTION
STA 103+44 TO 104+85.4
STA 110+42.9 TO 120+40



PROPOSED TYPICAL SECTION
STA 99+00 TO 102+00



PROPOSED TYPICAL SECTION
STA 102+00 TO 104+85.6

SEE DETAIL 1 ON SHEET 9
FOR COMPENSATORY STORAGE DITCH

*HMA SHOULDERS, 8" SHALL EXTEND 1' BEHIND
BACK OF GUARDRAIL POST

EXISTING LEGEND

- (A) EXISTING HMA PAVEMENT 12"
- (B) EXISTING COMBINATION CURB AND GUTTER, TYPE B-6.24
- (C) EXISTING GRAVEL SHOULDER
- (D) EXISTING HMA SHOULDER
- (E) EXISTING GUARDRAIL
- (F) EXISTING TOPSOIL AND SEEDING

NOTES

1. PROPOSED TOPSOIL, 6" WILL CONSIST OF EXISTING TOPSOIL AND PAID FOR AS 'TOPSOIL EXCAVATION AND PLACEMENT'. SEE LANDSCAPING PLANS FOR PERMANENT SEEDING.
2. SUITABLE EMBANKMENT SHALL MEET THE REQUIREMENTS SPECIFIED IN SPECIAL REVISION FOR EMBANKMENT I. EMBANKMENT BACKFILL MATERIAL FOR THE REINFORCED SOIL SLOPE SYSTEM (RSS) SHALL MEET THE REQUIREMENTS SPECIFIED IN THE RSS SPECIAL PROVISION AND IS INCLUDED IN THE COST OF THE RSS. NOTE THAT EXPANDED SHALE LIGHTWEIGHT AGGREGATE WILL BE USED AS BACKFILL FOR THE RSS IN THE LIMITS OF THE EXISTING LOAD TRANSFER PLATFORM.
3. SEE GENERAL NOTES SHEET 3 FOR HOT-MIX ASPHALT MIXTURE REQUIREMENTS TABLE.

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 1/2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/2"
- (3) HOT-MIX ASPHALT BASE COURSE WIDENING, 8"
- (4) NOT USED
- (5) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (6) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (7) HOT-MIX ASPHALT SHOULDERS, 8"
- (8) AGGREGATE SHOULDERS, TYPE B 4"
- (9) PROPOSED HMA SHARED-USE PATH, SEE DETAIL 3 ON SHEET 9
- (10) PROPOSED HMA WIDENING, SEE DETAIL 4 ON SHEET 9
- (11) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1 1/2"
- (12) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/2"
- (13) AGGREGATE BASE COURSE, TYPE B 6"
- (14) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (15) PROPOSED TOPSOIL, 6" (SEE NOTE 1)
- (16) SUITABLE EMBANKMENT (SEE NOTE 2)

MODEL: D:\p\1\10000011202003_CADD\01_Sheets\104thPath_TypicalSections_Sheets.dgn

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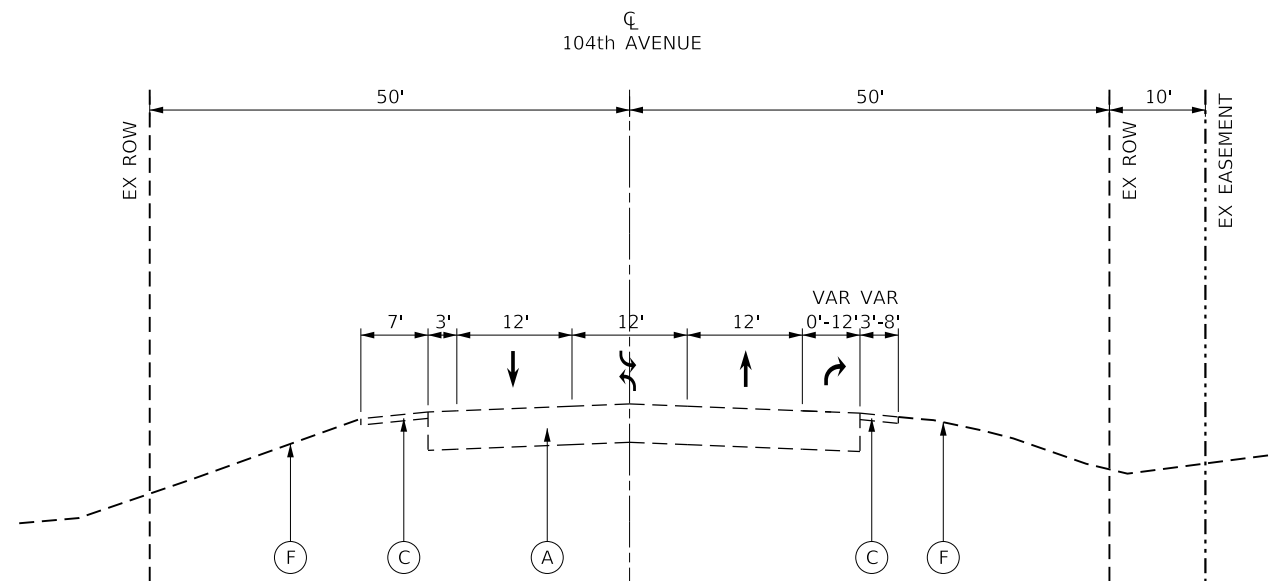
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	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

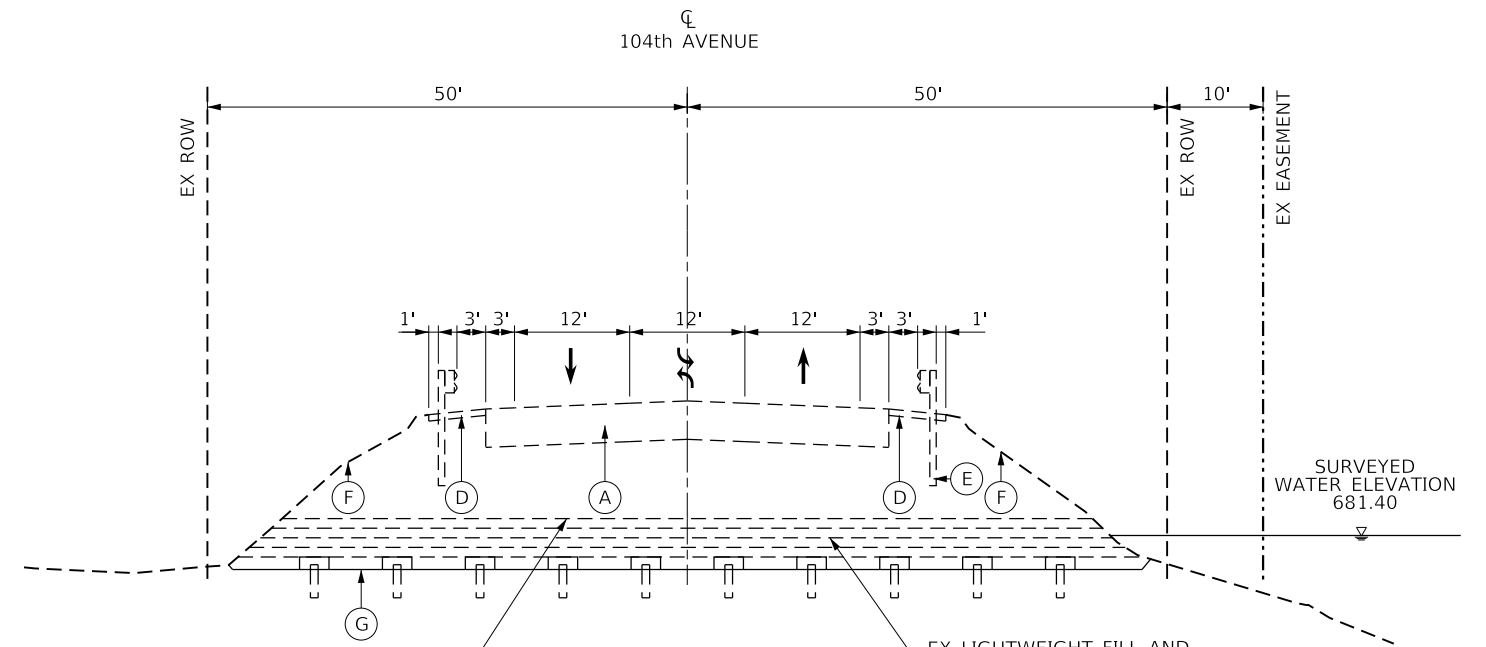
**TYPICAL SECTIONS
104TH AVENUE SHARED-USE PATH**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

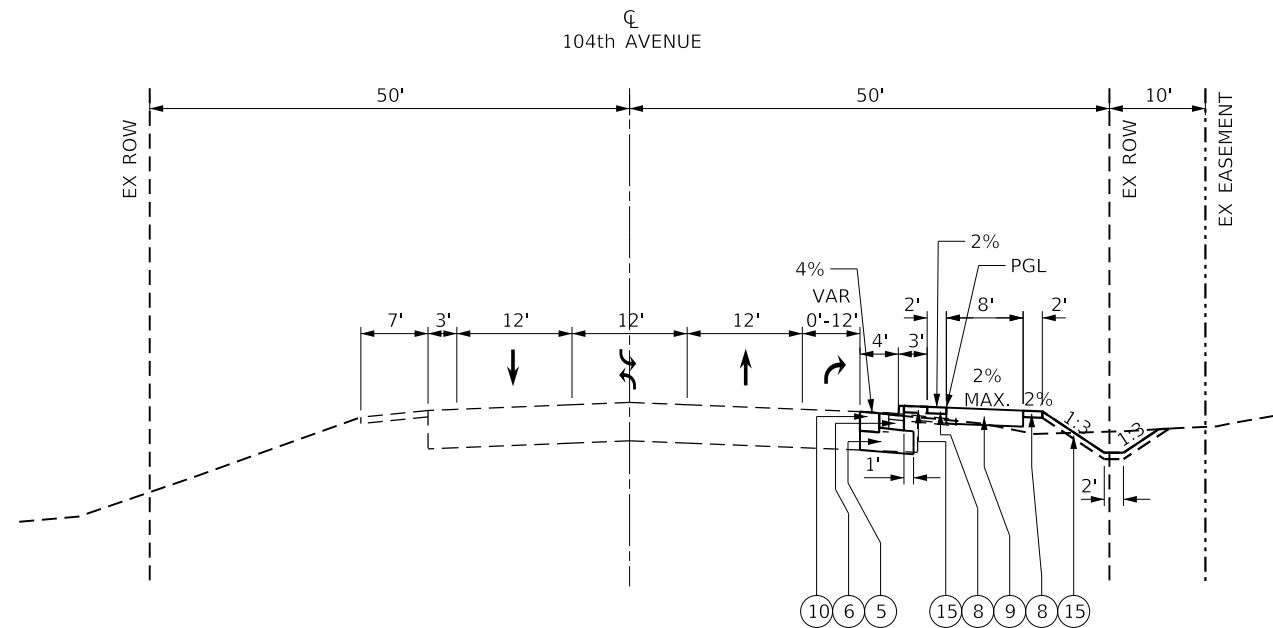
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	7
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



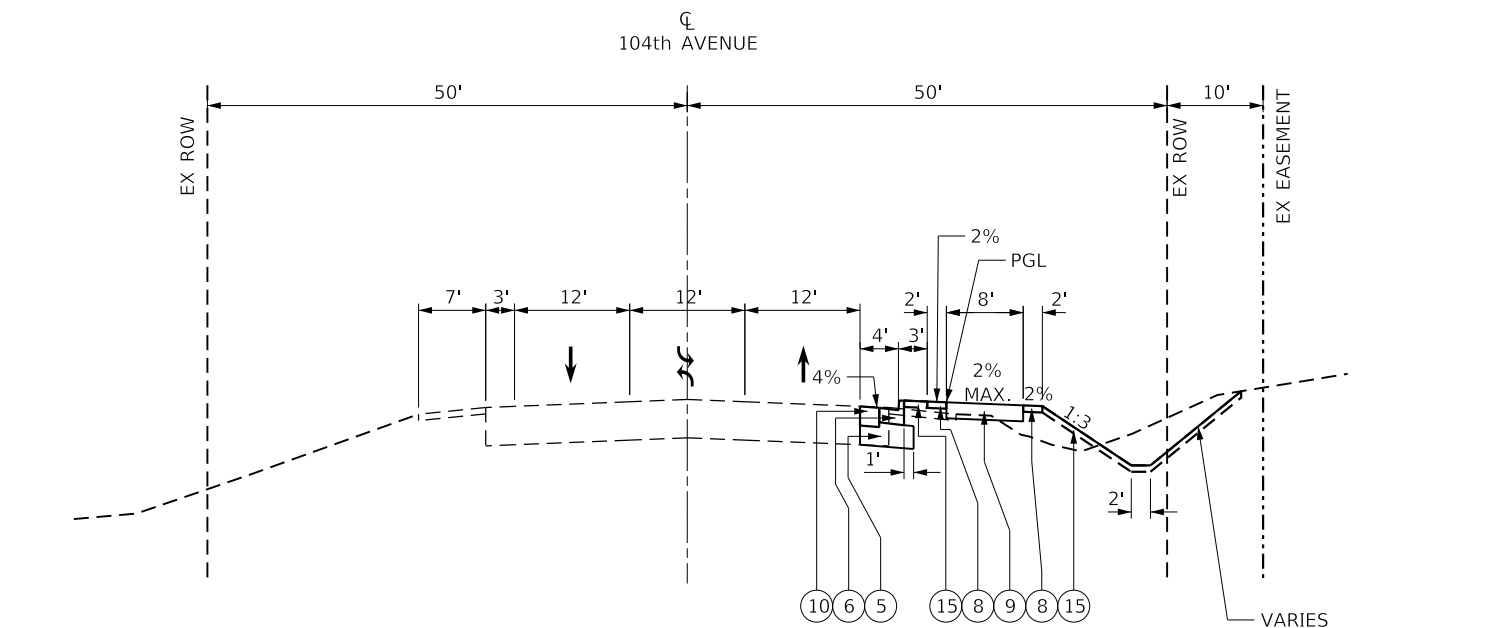
EXISTING TYPICAL SECTION
STA 104+85.4 TO 110+42.9
(INCLUDES RT TURN LANES)



EXISTING TYPICAL SECTION
STA 120+40 TO STA 127+81.31
EX LIGHTWEIGHT FILL AND
LOAD TRANSFER PLATFORM
STA 120+40 TO STA 129+47
TOP OF LOAD TRANSFER PLATFORM ELEV. 682.5
TOP OF PILE CAP ELEV. 680.0
UNLESS OTHERWISE SHOWN ON CROSS SECTIONS



PROPOSED TYPICAL SECTION
STA 104+85.6 TO 110+42.9
(INCLUDES RT TURN LANES)



PROPOSED TYPICAL SECTION
STA 110+42.9 TO 117+01.0

EXISTING LEGEND

- (A) EXISTING HMA PAVEMENT 12"
- (B) EXISTING COMBINATION CURB AND GUTTER, TYPE B-6.24
- (C) EXISTING GRAVEL SHOULDER
- (D) EXISTING HMA SHOULDER
- (E) EXISTING GUARDRAIL
- (F) EXISTING TOPOSOIL AND SEEDING
- (G) EXISTING LOAD TRANSFER PLATFORM

NOTES

1. PROPOSED TOPSOIL, 6" WILL CONSIST OF EXISTING TOPSOIL AND PAID FOR AS 'TOPSOIL EXCAVATION AND PLACEMENT'. SEE LANDSCAPING PLANS FOR PERMANENT SEEDING.
2. SUITABLE EMBANKMENT SHALL MEET THE REQUIREMENTS SPECIFIED IN SPECIAL REVISION FOR EMBANKMENT I. EMBANKMENT BACKFILL MATERIAL FOR THE REINFORCED SOIL SLOPE SYSTEM (RSS) SHALL MEET THE REQUIREMENTS SPECIFIED IN THE RSS SPECIAL PROVISION AND IS INCLUDED IN THE COST OF THE RSS. NOTE THAT EXPANDED SHALE LIGHTWEIGHT AGGREGATE WILL BE USED AS BACKFILL FOR THE RSS IN THE LIMITS OF THE EXISTING LOAD TRANSFER PLATFORM.
3. SEE GENERAL NOTES SHEET 3 FOR HOT-MIX ASPHALT MIXTURE REQUIREMENTS TABLE.

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 1/2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/2"
- (3) HOT-MIX ASPHALT BASE COURSE WIDENING, 8"
- (4) NOT USED
- (5) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (6) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (7) HOT-MIX ASPHALT SHOUDERS, 8"
- (8) AGGREGATE SHOULDERS, TYPE B 4"
- (9) PROPOSED HMA SHARED-USE PATH, SEE DETAIL 3 ON SHEET 9
- (10) PROPOSED HMA WIDENING, SEE DETAIL 4 ON SHEET 9
- (11) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1 1/2"
- (12) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/2"
- (13) AGGREGATE BASE COURSE, TYPE B 6"
- (14) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (15) PROPOSED TOPSOIL, 6" (SEE NOTE 1)
- (16) SUITABLE EMBANKMENT (SEE NOTE 2)

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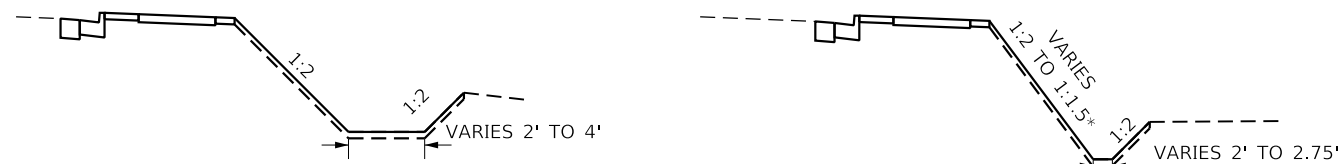
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PLOT SCALE =	DRAWN - GG	REVISED -
PLOT DATE = 10/26/2022	CHECKED - AM	REVISED -
	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

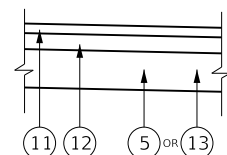
TYPICAL SECTIONS
104TH AVENUE SHARED-USE PATH

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

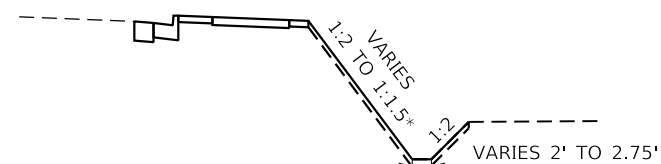
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	8
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



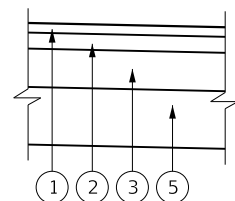
DETAIL 1
PROPOSED COMPENSATORY
STORAGE DITCH SECTION
STA 104+00 TO 104+62
105+00 TO 106+00



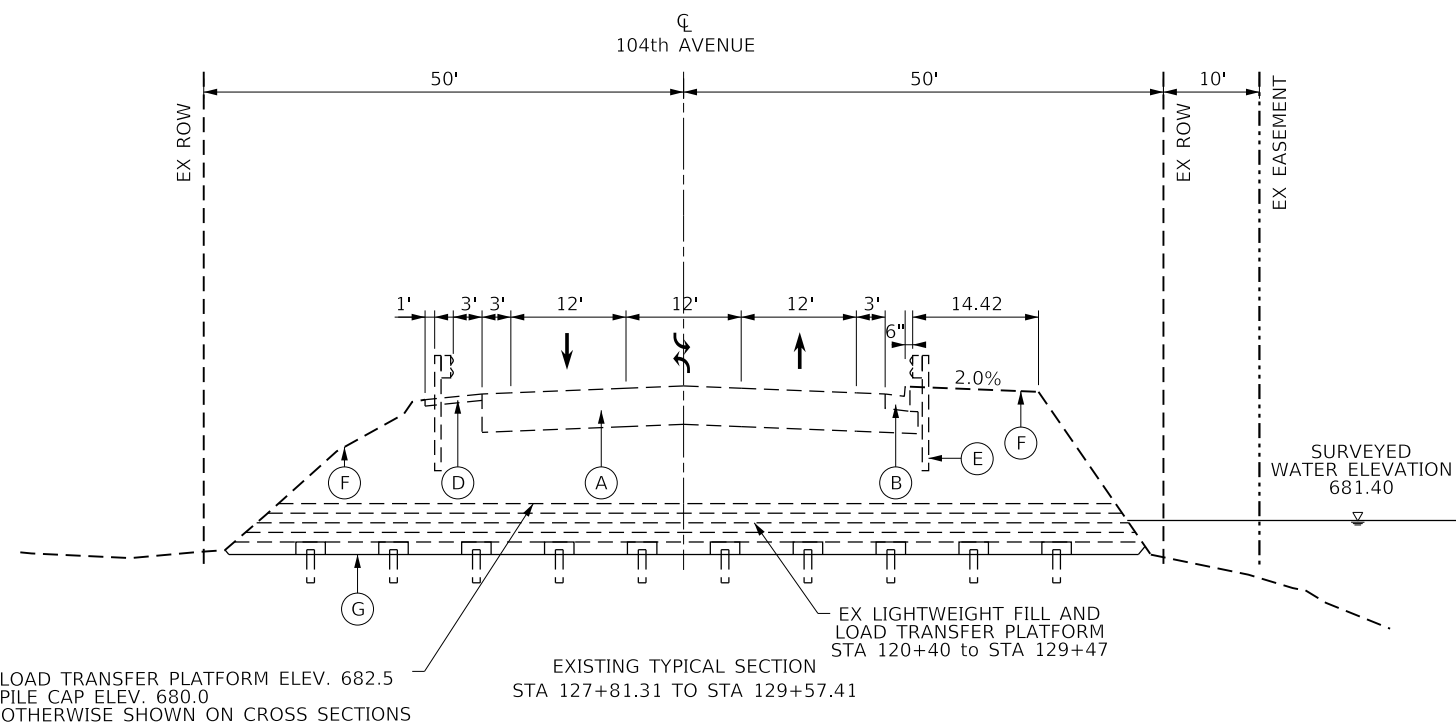
DETAIL 3
PROPOSED HMA SHARED-USE PATH
NOTE: (5) FROM STA 99+00 TO STA 112+50
(13) FROM STA 112+50 TO STA 129+50



DETAIL 2
PROPOSED COMPENSATORY
STORAGE DITCH SECTION
STA 118+19 TO 120+50

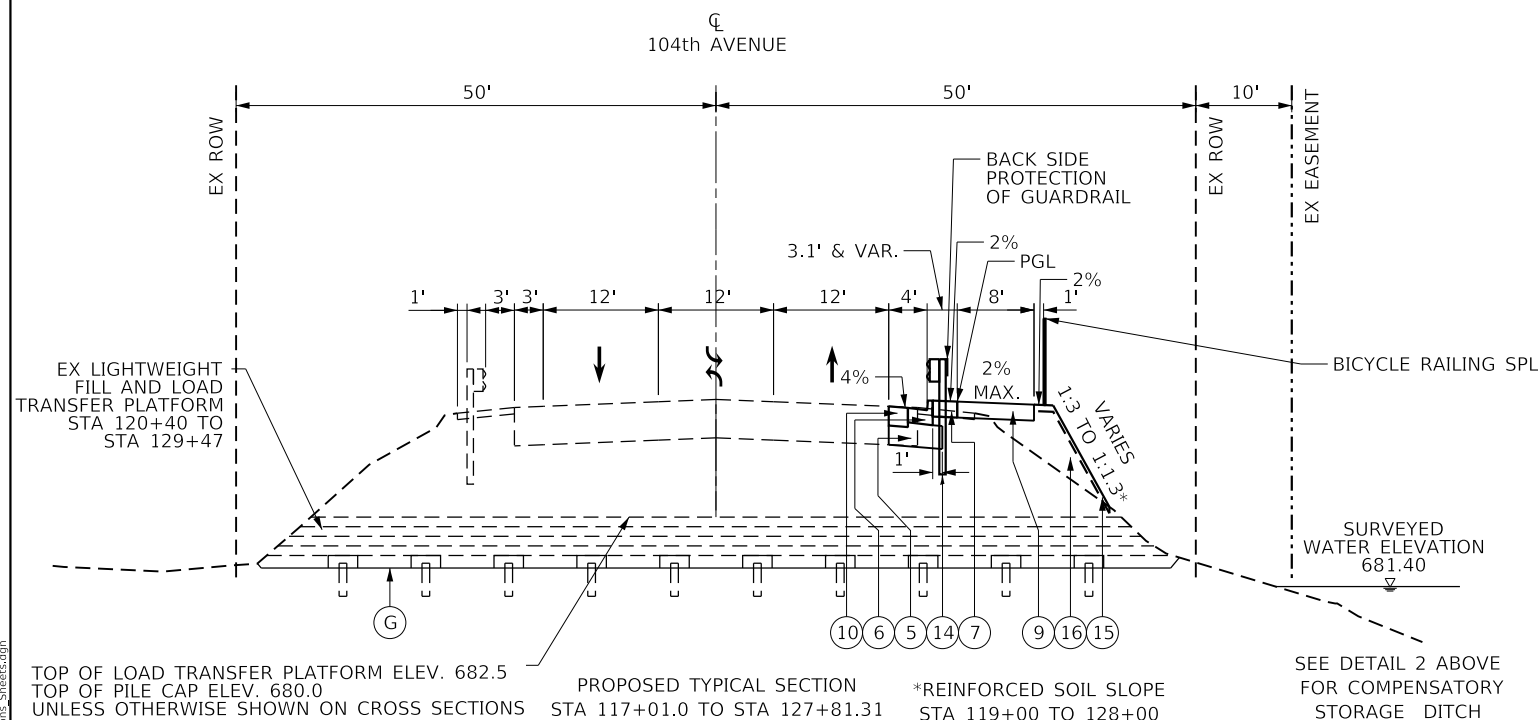


DETAIL 4
PROPOSED HMA WIDENING



TOP OF LOAD TRANSFER PLATFORM ELEV. 682.5
TOP OF PILE CAP ELEV. 680.0
UNLESS OTHERWISE SHOWN ON CROSS SECTIONS

EXISTING TYPICAL SECTION
STA 127+81.31 TO STA 129+57.41

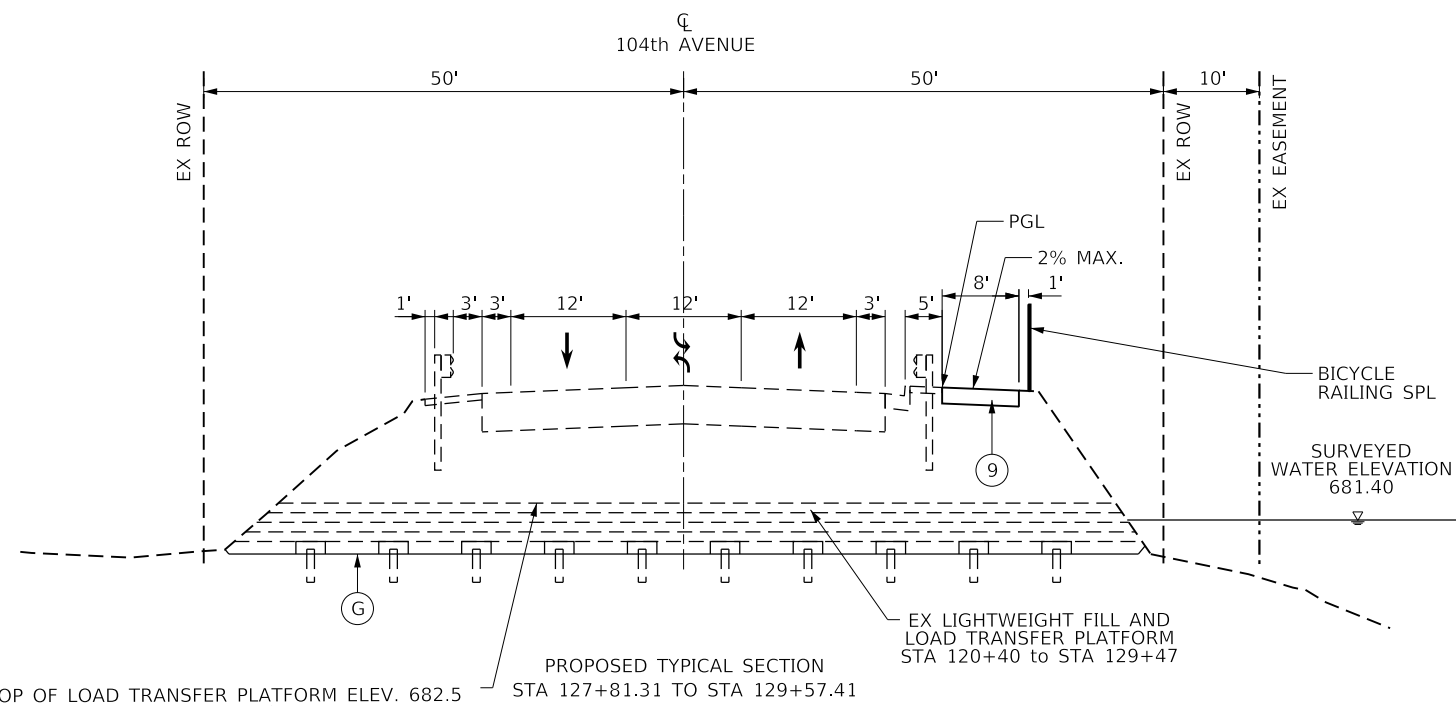


TOP OF LOAD TRANSFER PLATFORM ELEV. 682.5
TOP OF PILE CAP ELEV. 680.0
UNLESS OTHERWISE SHOWN ON CROSS SECTIONS

PROPOSED TYPICAL SECTION
STA 117+01.0 TO STA 127+81.31

*REINFORCED SOIL SLOPE
STA 119+00 TO 128+00
SEE DETAIL SHEET 42

SEE DETAIL 2 ABOVE
FOR COMPENSATORY
STORAGE DITCH



TOP OF LOAD TRANSFER PLATFORM ELEV. 682.5
TOP OF PILE CAP ELEV. 680.0
UNLESS OTHERWISE SHOWN ON CROSS SECTIONS

PROPOSED TYPICAL SECTION
STA 127+81.31 TO STA 129+57.41

*REINFORCED SOIL SLOPE STA 119+00 TO 128+00
SEE DETAIL SHEET 42

NOTES

1. PROPOSED TOPSOIL, 6" WILL CONSIST OF EXISTING TOPSOIL AND PAID FOR AS 'TOPSOIL EXCAVATION AND PLACEMENT'. SEE LANDSCAPING PLANS FOR PERMANENT SEEDING.
2. SUITABLE EMBANKMENT SHALL MEET THE REQUIREMENTS SPECIFIED IN SPECIAL REVISION FOR EMBANKMENT I. EMBANKMENT BACKFILL MATERIAL FOR THE REINFORCED SOIL SLOPE SYSTEM (RSS) SHALL MEET THE REQUIREMENTS SPECIFIED IN THE RSS SPECIAL PROVISION AND IS INCLUDED IN THE COST OF THE RSS. NOTE THAT EXPANDED SHALE LIGHTWEIGHT AGGREGATE WILL BE USED AS BACKFILL FOR THE RSS IN THE LIMITS OF THE EXISTING LOAD TRANSFER PLATFORM.
3. SEE GENERAL NOTES SHEET 3 FOR HOT-MIX ASPHALT MIXTURE REQUIREMENTS TABLE.

EXISTING LEGEND

- (A) EXISTING HMA PAVEMENT 12"
- (B) EXISTING COMBINATION CURB AND GUTTER, TYPE B-6.24
- (C) EXISTING GRAVEL SHOULDER
- (D) EXISTING HMA SHOULDER
- (E) EXISTING GUARDRAIL
- (F) EXISTING TOPOSOIL AND SEEDING
- (G) EXISTING LOAD TRANSFER PLATFORM

PROPOSED LEGEND

- (1) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 1/2"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/2"
- (3) HOT-MIX ASPHALT BASE COURSE WIDENING, 8"
- (4) NOT USED
- (5) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (6) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- (7) HOT-MIX ASPHALT SHOUDERS, 8"
- (8) AGGREGATE SHOULDERS, TYPE B 4"
- (9) PROPOSED HMA SHARED-USE PATH, SEE DETAIL 3
- (10) PROPOSED HMA WIDENING, SEE DETAIL 4
- (11) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50, 1 1/2"
- (12) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/2"
- (13) AGGREGATE BASE COURSE, TYPE B 6"
- (14) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (15) PROPOSED TOPSOIL, 6" (SEE NOTE 1)
- (16) SUITABLE EMBANKMENT (SEE NOTE 2)

MODEL: D:\p\1\1000001\2022\03_CADD\01_Sheets\117\1202_TypicalSections_Sheets.dgn

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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

TYPICAL SECTIONS
104TH AVENUE SHARED-USE PATH

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	9
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

SHARED-USE PATH & DRIVEWAY SCHEDULE									
STATION	STATION	OFFSET	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 (40604060)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (40603080)	AGGREGATE SUBGRADE IMPROVEMENT, 12" (30300112)	AGGREGATE BASE COURSE, TYPE B 6" (35101800)	AGGREGATE SHOULDERS, TYPE B 4" (48101498)	HOT-MIX ASPHALT SHOULDERS, 8" (48203029)	HOT-MIX ASPHALT BASE COURSE, 8" (35501316)
			TON	TON	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
99+00.0	100+20.4	RT	9.09	15.14	108.2	-	54.1	-	-
100+20.4	104+04.9	RT	28.72	47.86	341.8	-	159.1	68.9	-
104+04.9	104+36.6	RT	2.39	3.98	28.5	-	10.2	7.6	-
104+36.6	104+85.4	RT	3.61	6.02	43.0	-	-	13.9	-
104+85.4	106+00.0	RT	8.56	14.27	101.9	-	-	32.6	-
106+00.0	106+85.4	RT	6.41	10.68	76.2	-	19.1	33.1	-
106+85.4	108+54.2	RT	12.62	21.03	150.2	-	75.1	-	-
109+41.1	110+42.9	RT	7.63	12.72	90.9	-	45.4	-	-
110+42.9	117+00.0	RT	49.05	81.75	183.9	400.0	286.0	13.0	-
117+00.0	119+00.0	RT	14.93	24.89	-	177.8	28.7	77.5	-
119+00.0	129+25.6	RT	76.58	127.63	-	911.6	-	253.2	-
129+25.6	129+57.8	RT	2.43	4.06	-	29.0	6.0	-	-
DRIVEWAY			18.73	-	-	-	-	-	168.0
TOTAL			241	370	1,125	1,519	684	500	168

ROADWAY WIDENING SCHEDULE						
STATION	STATION	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 (40604062)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (40603085)	HOT-MIX ASPHALT BASE COURSE WIDENING, 8" (35600708)	AGGREGATE SUBGRADE IMPROVEMENT, 12" (30300112)	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (60605000)
		TON	TON	SQ YD	SQ YD	FOOT
102+00.0	108+77.4	13.0	21.7	155	433	691
109+19.3	127+81.3	35.2	58.6	419	1168	1876
TOTAL		49	81	574	1600	2,567

EARTHWORK SUMMARY									
LOCATION	EARTH EXCAVATION (20200100)	UNSUITABLE MATERIAL	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE*	EMBANKMENT	BALANCE - FURNISHED EXCAVATION (20400800)	TOPSOIL STRIPPING	TOPSOIL PLACEMENT	TOPSOIL EXCAVATION AND PLACEMENT (21101505)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (20201200)
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
99+00 TO 119+00	2,732	2,534	168	2,066	-1,898	2,076	1,593	2,076	3,017
119+00 TO 129+57	693	330	308	310	-2	702	578	702	454
TOTAL	3,425	2,865	476	2,376	-1,900	2,778	2,172	2,778	3,471

PATCHING SCHEDULE			
STATION	STATION	CLASS B PATCHES, TYPE III, 8 INCH (44200942)	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (60605000)
		SQ YD	FOOT
128+40.6	128+64.1	16	24
TOTAL		16	24

*- SHRINKAGE FACTOR ESTIMATED AT 15%

1. A DEPTH OF 6" OF TOPSOIL EXCAVATION SHALL BE PROVIDED WITHIN THE PROPOSED EMBANKMENT AND EXCAVATION LIMITS AND SHALL BE PAID FOR AS 'TOPSOIL EXCAVATION AND PLACEMENT'.
2. PROPOSED TOPSOIL 6" WILL CONSIST OF EXISTING TOPSOIL AND PAID FOR AS 'TOPSOIL EXCAVATION AND PLACEMENT'.
3. UNSUITABLE MATERIALS INCLUDE EXCESS TOPSOIL AND AN ESTIMATE OF MATERIAL REMOVED BASED ON GEOTECHNICAL DATA. ESTIMATE OF UNSUITABLE MATERIALS PROVIDED ON THE EARTHWORK SCHEDULE AND CROSS SECTIONS.
4. SUITABLE EMBANKMENT SHALL MEET THE REQUIREMENTS SPECIFIED IN SPECIAL REVISION FOR EMBANKMENT I. EMBANKMENT BACKFILL MATERIAL FOR THE REINFORCED SOIL SLOPE SYSTEM (RSS) SHALL MEET THE REQUIREMENTS SPECIFIED IN THE RSS SPECIAL PROVISION AND IS INCLUDED IN THE COST OF THE RSS. NOTE THAT EXPANDED SHALE LIGHTWEIGHT AGGREGATE WILL BE USED AS BACKFILL FOR THE RSS IN THE LIMITS OF THE EXISTING LOAD TRANSFER PLATFORM.

MODEL: D:\p\l\1\1000011202\03_CADD\01_Sheets\Civil\1202_104thPath-Schedule_1.dgn

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	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 11/22/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**SCHEDULE OF QUANTITIES
104TH AVENUE SHARED-USE PATH**

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	10
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

SEEDING SCHEDULE									
STATION	STATION	OFFSET	SEEDING, CLASS 1A (25000110)	SEEDING, CLASS 4 (25000310)	SEEDING, CLASS 4A (25000312)	SEEDING, CLASS 4B (25000314)	MULCH, METHOD 3 (25100125)	SEEDING, CLASS 7 (25000350)	NITROGEN & POTASSIUM FERTILIZER NUTRIENTS (25000400, 25000600)
			ACRE	ACRE	ACRE	ACRE	ACRE	ACRE	POUND
99+00.0	104+19.1	RT	0.101				0.101	0.101	9.1
99+00.0	105+30.3	RT			0.282		0.282	0.282	
104+77.9	105+03.5	RT				0.003	0.003		
105+30.3	108+72.5	RT	0.118				0.118	0.118	10.6
106+85.5	108+65.1	RT	0.010				0.010	0.010	0.9
109+23.8	118+50.0	RT	0.500				0.500	0.500	45.0
109+31.1	116+73.5	RT	0.041				0.041	0.041	3.7
118+00.0	124+85.7	RT		0.337			0.337	0.337	
120+25.7	124+85.8	RT				0.106	0.106	0.106	
125+02.7	129+51.2	RT		0.156			0.156	0.156	
125+07.3	129+10.2	RT				0.093	0.093	0.093	
TOTAL			0.770	0.493	0.282	0.203	1.75	1.75	69.3
ROUNDED TOTAL			1.00	0.50	0.50	0.25	2.25	2.25	90

NOTE: SEEDING, CLASS 7 SHALL ONLY BE USED IN THE EVENT OF A WINTER SHUTDOWN AND IF THE PERMANENT SEEDING CANNOT BE PLACED BEFORE THE SHUTDOWN. THE PERMANENT SEEDING MUST BE PLACED AFTER A WINTER SHUTDOWN. A QUANTITY OF 225 LBS OF TEMPORARY EROSION CONTROL SEEDING (2800025) IS PROVIDED FOR SHORT-TERM COVER.

INLET FILTERS (28000510)		
STATION	OFFSET (RT)	EACH
104+54.0	21.0	1
105+46.7	24.6	1
105+80.0	26.5	1
106+59.9	31.3	1
107+99.5	32.6	1
116+50.0	20.6	1
117+55.0	20.8	1
119+05.0	21.1	1
121+54.9	22.0	1
124+05.0	20.8	1
125+60.0	21.0	1
126+55.0	20.8	1
127+73.0	19.9	1
128+45.6	19.8	1
128+58.2	19.8	1
TOTAL		15

TEMPORARY DITCH CHECKS (28000305)		
STATION	OFFSET (RT)	FOOT
99+03.4	33.0	12.0
100+56.6	58.6	12.0
101+51.2	59.0	12.0
104+67.8	53.0	9.8
105+20.0	52.5	12.3
106+50.0	52.5	10.0
110+50.8	44.0	11.1
111+03.9	44.5	11.1
111+58.8	45.6	10.6
112+12.8	45.6	10.6
112+65.9	44.5	11.1
113+20.8	45.6	11.1
113+73.9	44.5	11.1
114+28.8	44.5	10.7
114+82.8	45.6	10.6
115+36.8	45.6	11.1
115+90.8	45.6	11.1
116+44.8	45.6	11.1
116+98.8	45.6	11.1
117+52.8	45.6	11.1
118+06.8	45.6	11.1
118+22.8	45.6	9.5
118+38.8	45.6	9.5
118+54.0	45.8	9.5
118+70.8	45.6	7.2
118+86.8	45.6	7.2
119+02.8	48.0	7.2
119+77.8	49.4	7.2
ENGINEER'S DISCRETION (10%)		29.0
TOTAL		320

EROSION CONTROL BLANKET (SPECIAL) (X2511630)			
STATION	STATION	OFFSET	SQ YD
99+00.0	104+19.1	RT	487.7
99+00.0	104+00.0	RT	689.1
106+00.0	108+72.5	RT	389.9
106+85.5	108+65.1	RT	48.7
109+23.8	118+00.0	RT	2,272.7
109+31.1	116+73.5	RT	199.9
TOTAL			4,088

HEAVY DUTY EROSION CONTROL BLANKET (SPECIAL) (X2510635)			
STATION	STATION	OFFSET	SQ YD
104+00.0	106+00.0	RT	576.8
117+50.0	118+00.0	RT	138.8
TOTAL			715.5
ROUNDED TOTAL			725

TURF REINFORCEMENT MAT (25100900)			
STATION	STATION	OFFSET	SQ YD
104+77.9	105+03.5	RT	16.6
118+00.0	124+85.7	RT	1,629.5
120+25.7	124+85.8	RT	514.2
125+02.7	129+51.2	RT	756.8
125+07.3	129+10.2	RT	451.3
TOTAL			3,368.4
ROUNDED TOTAL			3,369

PERIMETER EROSION BARRIER (28000400)					
STATION	OFFSET (RT)	STATION	OFFSET (RT)	FOOT	
99+00.0	59.0	100+49.3	59.0	150.3	
100+64.6	59.0	101+41.9	59.0	77.3	
101+60.8	59.0	104+70.0	59.0	309.3	
104+95.1	59.0	106+50.0	59.0	154.9	
120+20.0	59.0	124+00.0	59.0	380.0	
TOTAL				1072	

COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK) (X0900075)					
STATION	OFFSET (RT)	STATION	OFFSET (RT)	LENGTH (FT)	EACH
123+00.0	48.4	128+00.0	50.0	511.6	1
104+75.0	56.0	104+95.0	56.0	20.0	1
TOTAL					2

SEDIMENT CONTROL, SILT CURTAIN (Z0023201)					
STATION	OFFSET (RT)	STATION	OFFSET (RT)	LENGTH (FT)	EACH
124+00.0	55.0	127+00.0	55.0	306	1
104+65.0	59.0	104+95.0	59.0	25	1
TOTAL					2

MODEL: D:\p\ch\11\10000000120203_CADD\01_Sheets\Cluff\14202_104thRtPath_Schedule_2.dgn

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225 WEST WASHINGTON STREET 12TH FLOOR
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312-372-3011 (P) / 312-372-5974 (F)

USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

SCHEDULE OF QUANTITIES
104TH AVENUE SHARED-USE PATH

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	11
				CONTRACT NO. 61H84
				ILLINOIS FED. AID PROJECT

BENCHMARKS

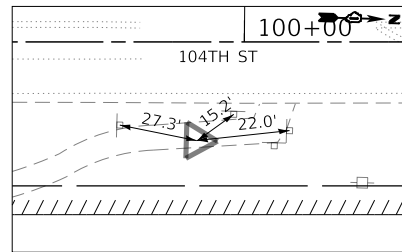
VERTICAL DATUM NAVD 88
HORIZONTAL DATUM NAD 83

BENCHMARK 1
SQUARE CUT ON FIRE HYDRANT ON NORTHWEST
CORNER OF 104TH AVENUE AND 163RD PLACE.

ELEVATION = 713.89

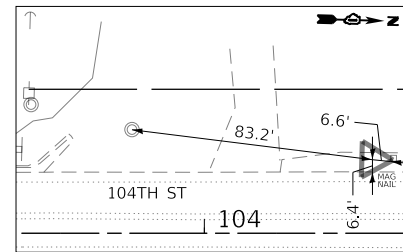
BENCHMARK 2
CROSS CUT ON SOUTH CORNER OF WEST HEADWALL
OF CULVERT UNDER 104TH AVENUE APPROXIMATELY
500 FEET SOUTH OF 159TH STREET.

ELEVATION = 686.28



CONTROL POINT #1
SET MAG NAIL

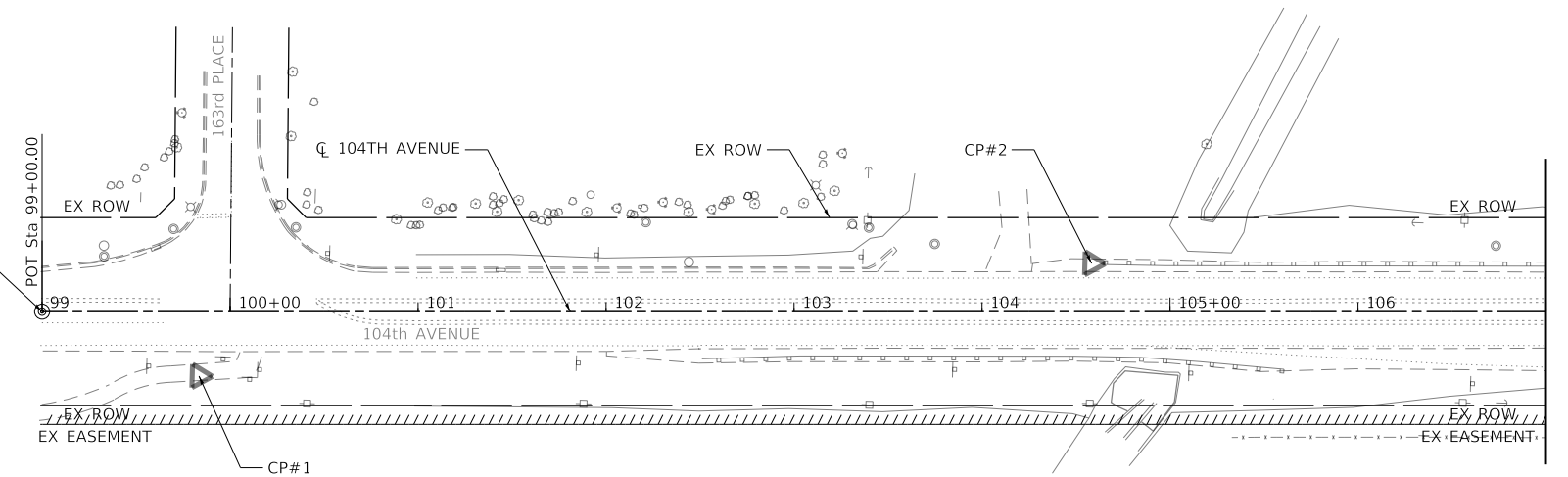
N = 1794504.98
E = 1110201.73
ELEV. = 711.40



CONTROL POINT #2
SET MAG NAIL

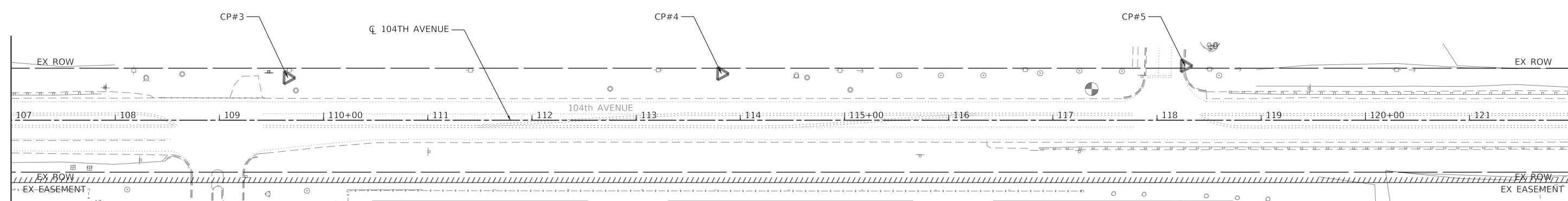
N = 1794977.98
E = 1110428.55
ELEV. = 700.09

POT STA 99+00.00
N = 1,794,420.611
E = 1,110,469.814

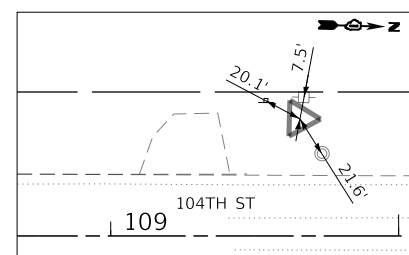


MATCHLINE STA 107+00

MATCHLINE STA 107+00

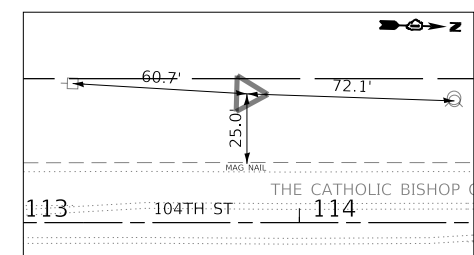


MATCHLINE STA 122+00



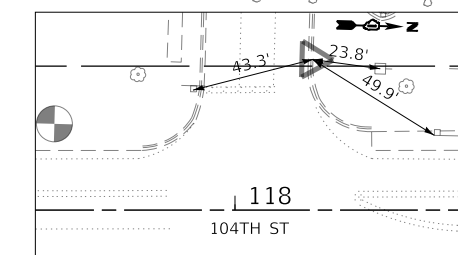
CONTROL POINT #3
SET RB W/CAP

N = 1795484.72 E = 1110399.16 ELEV. = 703.76



CONTROL POINT #4
SET RB W/CAP

N = 1795900.62 E = 1110383.54 ELEV. = 698.65



CONTROL POINT #5
SET "X"

N = 1796345.27 E = 1110363.46 ELEV. = 692.92



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FILE NAME: I:\p1\15000001\2022\03_CADD\01_Sheets\Civil\14202_104thAve.dwg

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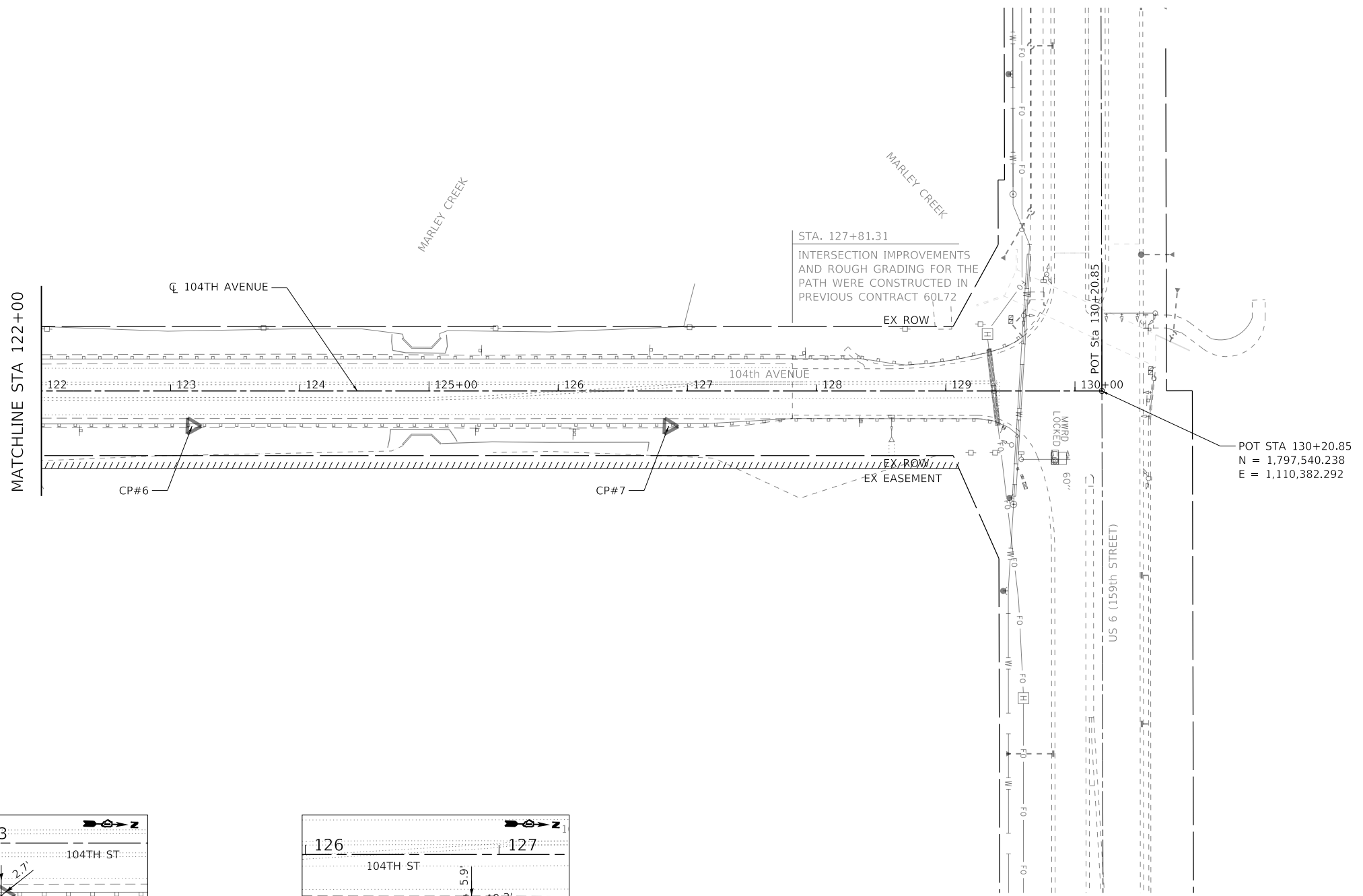
USER NAME = GG	DESIGNED - JW	REVISED -
PLOT SCALE =	DRAWN - JW	REVISED -
PLOT DATE = 10/26/2022	CHECKED - AM	REVISED -
	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

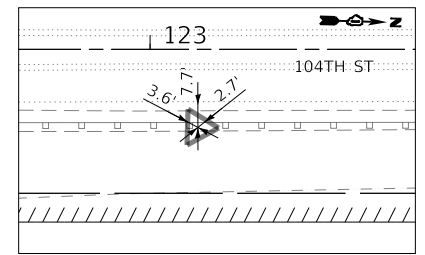
**ALIGNMENT, TIES AND BENCHMARKS
104TH AVENUE SHARED-USE PATH**

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 99+00 TO STA. 122+00

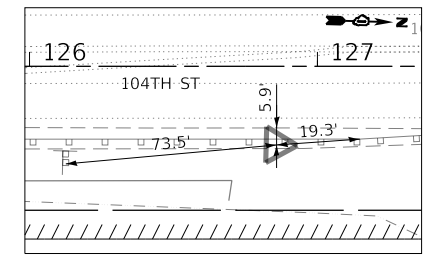
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	12
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



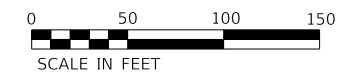
POT STA 130+20.85
 N = 1,797,540.238
 E = 1,110,382.292



CONTROL POINT #6
 SET MAG NAIL
 N = 1796837.03 E = 1110429.14 ELEV. = 689.38



CONTROL POINT #7
 SET RB W/CAP
 N = 1797206.10 E = 1110419.00 ELEV. = 688.11



MODEL: D:\p\h\...
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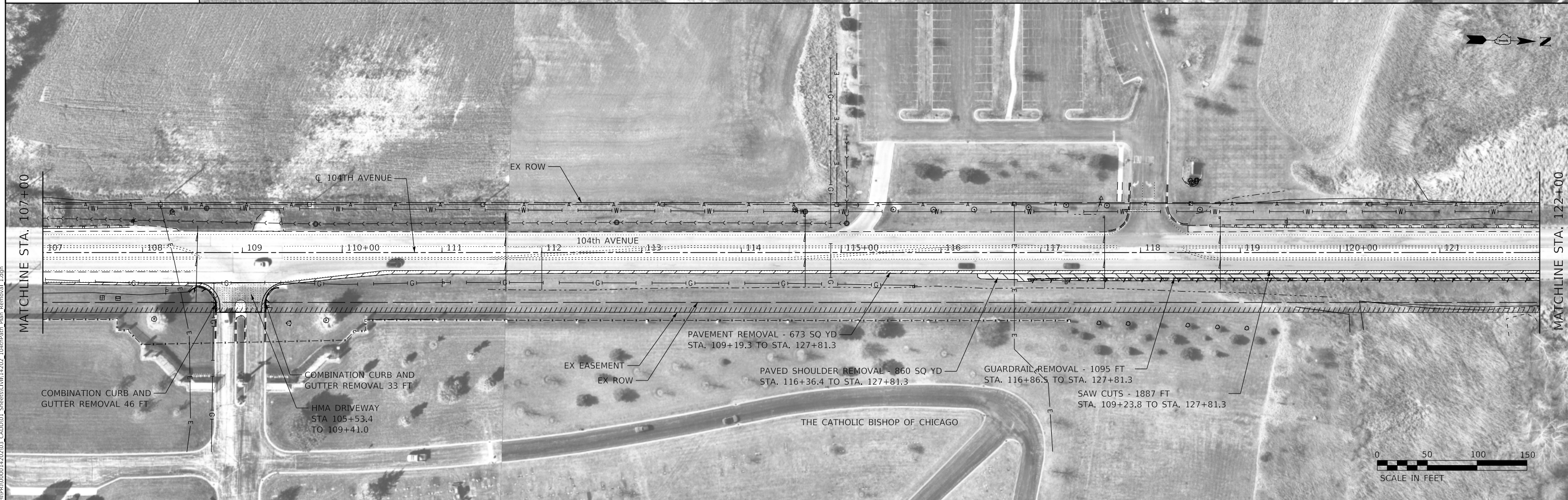
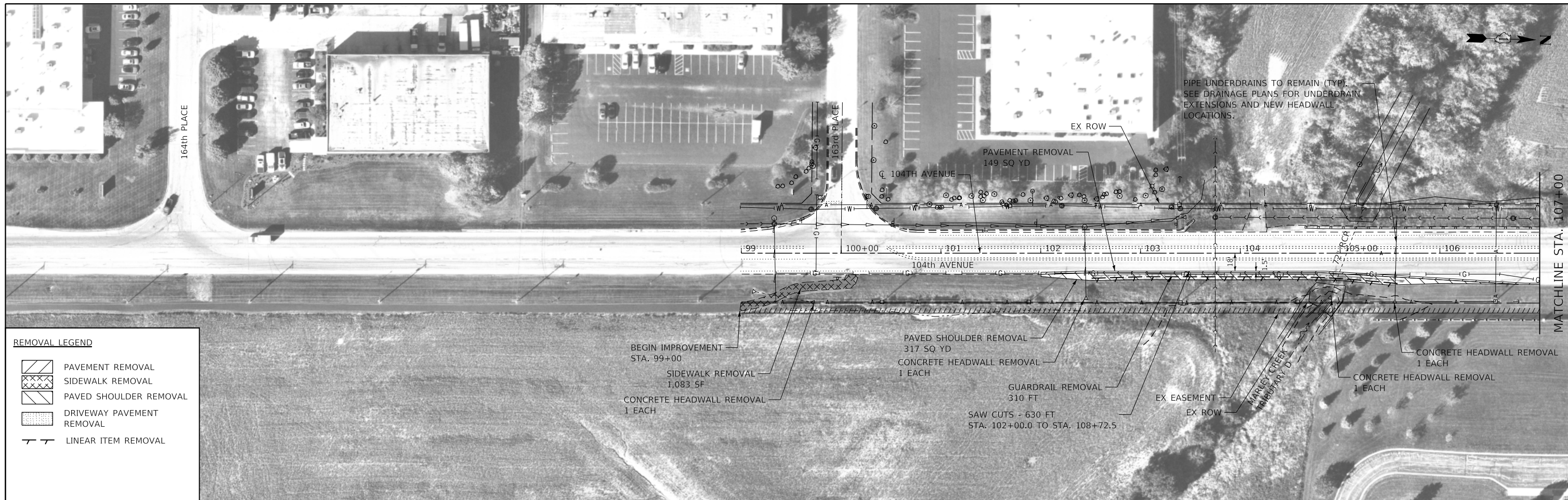
USER NAME = GG	DESIGNED - JW	REVISED -
	DRAWN - JW	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**ALIGNMENT, TIES AND BENCHMARKS
 104TH AVENUE SHARED-USE PATH**

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. 122+00 TO STA. 130+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	13
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



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USER NAME = GG	DESIGNED - JW	REVISED -
PLOT SCALE =	DRAWN - JW	REVISED -
PLOT DATE = 10/26/2022	CHECKED - AM	REVISED -
	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

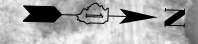
REMOVAL PLANS
104TH AVENUE SHARED-USE PATH

SCALE: 1"=50'

SHEET 1 OF 2 SHEETS

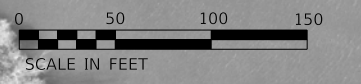
STA. 99+00 TO STA. 122+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	14
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



REMOVAL LEGEND

	PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	PAVED SHOULDER REMOVAL
	LINEAR ITEM REMOVAL



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USER NAME = GG	DESIGNED - JW	REVISED -
	DRAWN - JW	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**REMOVAL PLANS
104TH AVENUE SHARED-USE PATH**

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. 122+00 TO STA. 130+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	15
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



100 MAINTAIN EXISTING SIGN W1-7



102 RELOCATE EXISTING SIGN R3-5R



101 RELOCATE EXISTING SPECIAL SIGN

PATH GEOMETRY	STATION	OFFSET (RT)	STATION	OFFSET (RT)	RADIUS
TAPER	99+00.0	49.4	100+20.4	30.2	-
TANGENT	100+20.4	30.2	104+04.9	30.2	-
TAPER	104+04.9	30.2	104+36.6	25.1	-
TANGENT	104+36.6	25.1	104+85.4	25.1	-
TAPER	104+85.4	25.1	106+00.0	32.0	-
TAPER	106+00.0	32.0	106+85.4	39.0	-
TANGENT	106+85.4	39.0	108+54.2	39.0	-

NOTE: STATION AND OFFSETS SHOWN AT PGL LOCATION, BASED OFF ROADWAY CL

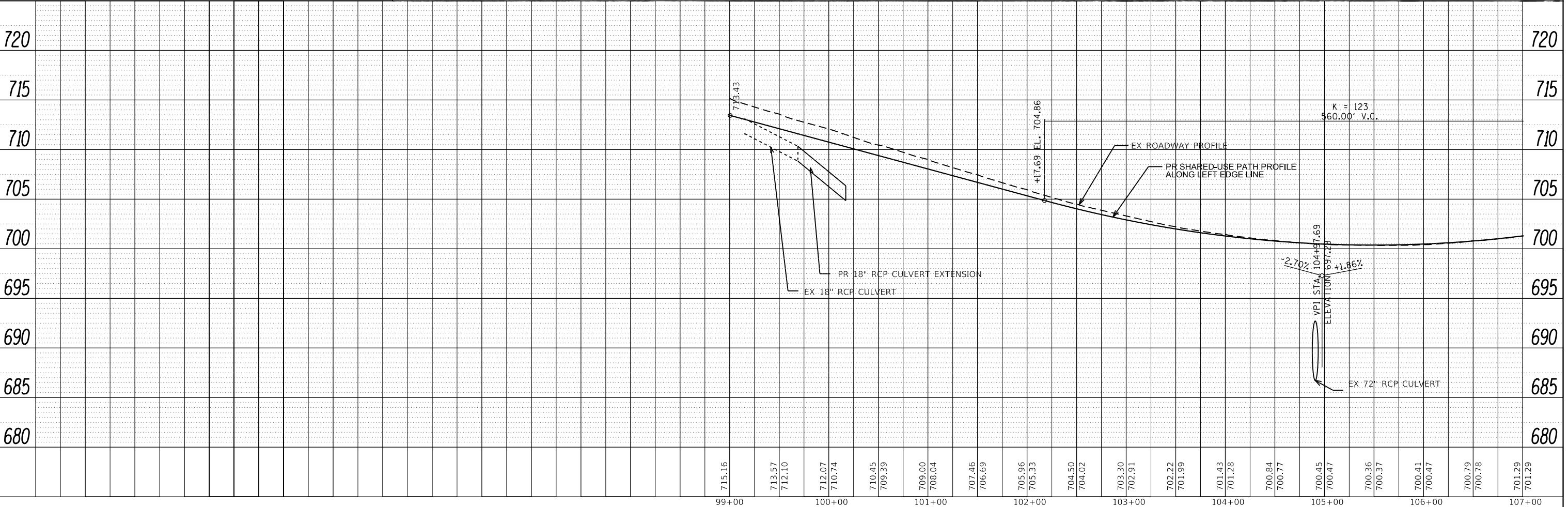
NOTE:

- EXISTING PAVEMENT MARKINGS ARE SHOWN FOR INFORMATION ONLY. EXISTING MARKINGS ARE TO REMAIN UNLESS DAMAGED DURING CONSTRUCTION. EXISTING MARKINGS IN CONFLICT WITH MOT ARE TO BE COVERED AS SHOWN IN MOT PLANS. NOMINAL ESTIMATED QUANTITIES FOR MODIFIED URETHANE PAVEMENT MARKINGS ARE INCLUDED FOR USE AS DIRECTED BY THE ENGINEER.
- TELESCOPING STEEL SIGN SUPPORTS SHALL BE USED WITH TYPE ZZ SHEETING.
- SIGN PANELS LOCATED BETWEEN THE BACK OF CURB AND THE EDGE OF SHARED-USE PATH SHALL BE ERRECTED WITH A 2' MIN OFFSET FROM FACE OF CURB AND 7' MIN HEIGHT IN ACCORDANCE WITH STANDARD 720006-04. SIGNS LOCATED ALONG THE OUTSIDE OF THE PATH SHALL BE ERRECTED WITH A 3' OFFSET FROM EDGE OF HMA PATH AND 4' MIN/5' MAX HEIGHT.



DATE	
BY	
PLAN	
NO.	

DATE	
BY	
PROFILE	
NO.	



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CHICAGO, IL 60606
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USER NAME	= GG
DESIGNED	- JW
DRAWN	- JW
CHECKED	- AM
DATE	- 4/6/2022

REVISED	-
REVISED	-
REVISED	-
REVISED	-

VILLAGE OF ORLAND PARK

PLAN, PROFILE AND SIGNING PLAN
104TH AVENUE SHARED-USE PATH

SCALE: 1"=50' SHEET 1 OF 3 SHEETS STA. 99+00 TO STA. 107+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	16
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



103 RELOCATE EXISTING SIGN R8-3

104 INSTALL NEW SIGN R5-3 24"x24"

105 INSTALL NEW SIGN R1-1 18"x18"

108 RELOCATE EXISTING SIGN R2-1

109 MAINTAIN EXISTING SIGN R3-1

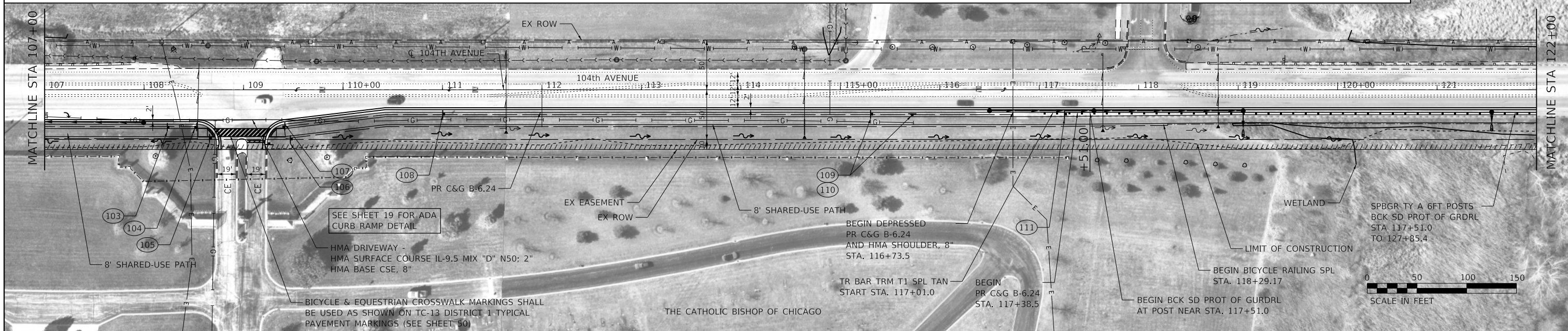
PATH GEOMETRY	STATION	OFFSET (RT)	STATION	OFFSET (RT)	RADIUS
TANGENT	106+85.4	39.0	108+54.2	39.0	-
TAPER	109+41.1	39.1	110+42.9	27.0	-
TANGENT	110+42.9	27.0	117+00.0	27.0	-
TAPER	117+00.0	27.0	119+00.0	25.1	-
TANGENT	119+00.0	25.1	129+25.6	25.1	-

NOTE: STATION AND OFFSETS SHOWN AT PGL LOCATION, BASED OFF ROADWAY CL

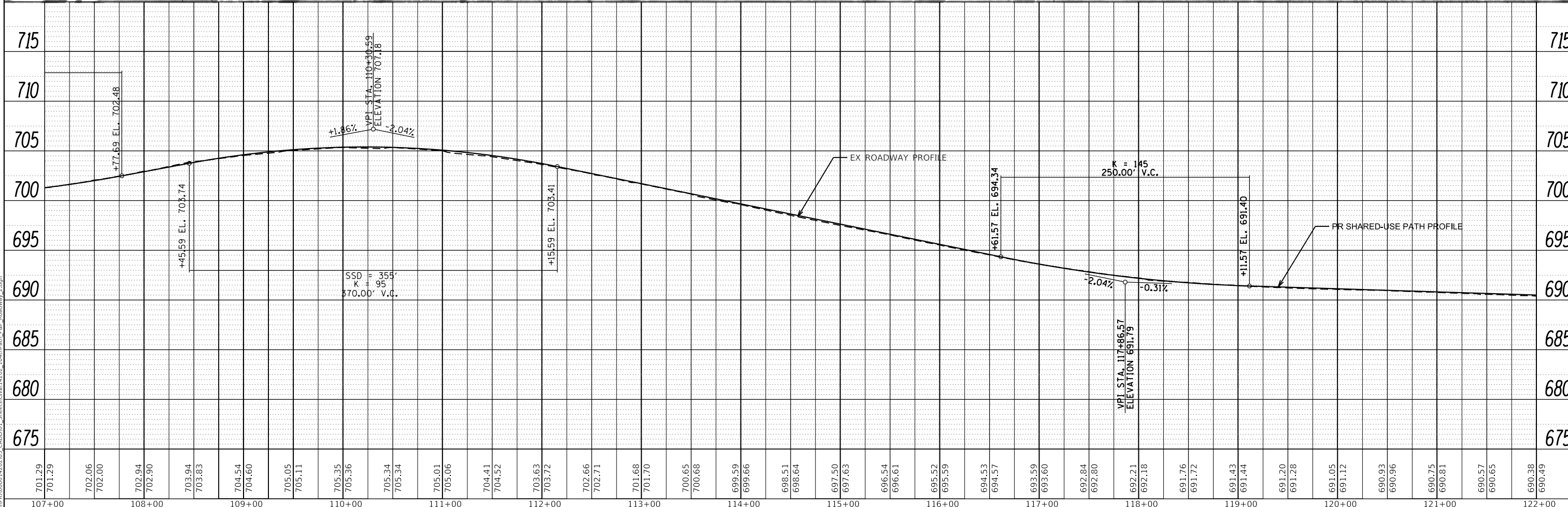
NOTE:

- EXISTING PAVEMENT MARKINGS ARE SHOWN FOR INFORMATION ONLY. EXISTING MARKINGS ARE TO REMAIN UNLESS DAMAGED DURING CONSTRUCTION. EXISTING MARKINGS IN CONFLICT WITH MOT ARE TO BE COVERED AS SHOWN IN MOT PLANS. NOMINAL ESTIMATED QUANTITIES FOR MODIFIED URETHANE PAVEMENT MARKINGS ARE INCLUDED FOR USE AS DIRECTED BY THE ENGINEER.
- TELESCOPING STEEL SIGN SUPPORTS SHALL BE USED WITH TYPE ZZ SHEETING.
- SIGN PANELS LOCATED BETWEEN THE BACK OF CURB AND THE EDGE OF SHARED-USE PATH SHALL BE ERECTED WITH A 2' MIN OFFSET FROM FACE OF CURB AND 7' MIN HEIGHT IN ACCORDANCE WITH STANDARD 720006-04. SIGNS LOCATED ALONG THE OUTSIDE OF THE PATH SHALL BE ERECTED WITH A 3' OFFSET FROM EDGE OF HMA PATH AND 4' MIN/5' MAX HEIGHT.

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO. _____	
	DATE _____	



PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO. _____	
	DATE _____	



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USER NAME = GG	DESIGNED - JW	REVISED -
	DRAWN - JW	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

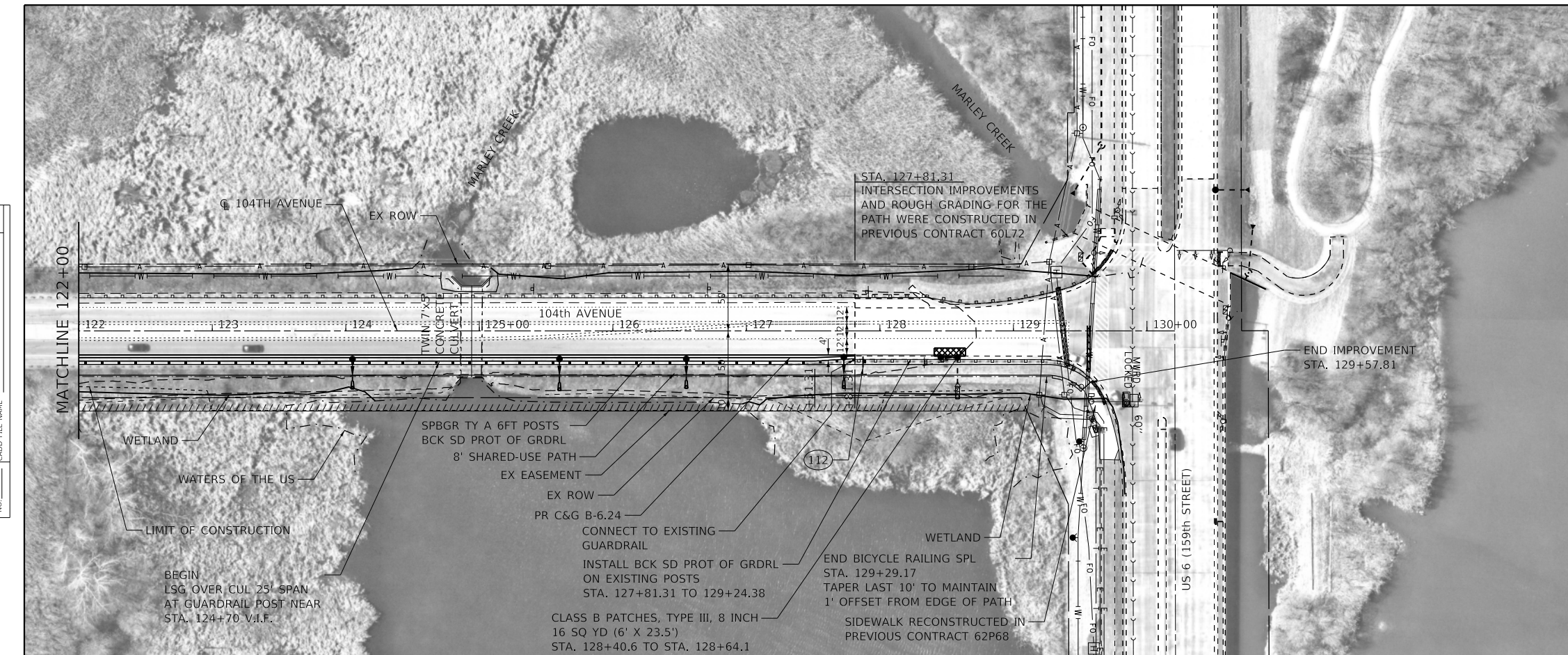
PLAN, PROFILE AND SIGNING PLAN
104TH AVENUE SHARED-USE PATH

SCALE: 1"=50' SHEET 2 OF 3 SHEETS STA. 107+00 TO STA. 122+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	17
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	CHECKED
	STRUCTURE	NOTATION
	NOTE BOOK	NO.
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	CHECKED
	STRUCTURE	NOTATION
	NOTE BOOK	NO.
	CADD FILE NAME	



159th St

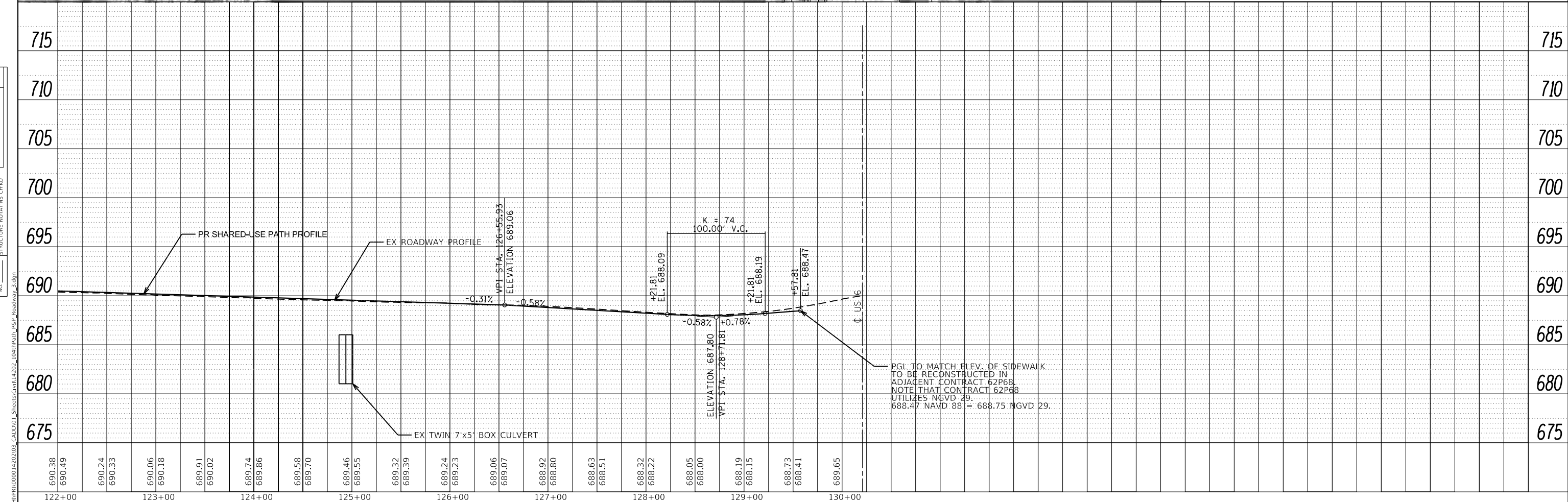
(112) RELOCATE EXISTING SIGN D3-1

PATH GEOMETRY	STATION	OFFSET (RT)	STATION	OFFSET (RT)	RADIUS
TANGENT	119+00.0	25.1	129+25.6	25.1	-
RADIUS	129+25.6	25.1	129+57.8	38.4	46.0

NOTE: STATION AND OFFSETS SHOWN AT PGL LOCATION, BASED OFF ROADWAY CL

NOTE:

- EXISTING PAVEMENT MARKINGS ARE SHOWN FOR INFORMATION ONLY. EXISTING MARKINGS ARE TO REMAIN UNLESS DAMAGED DURING CONSTRUCTION. EXISTING MARKINGS IN CONFLICT WITH MOT ARE TO BE COVERED AS SHOWN IN MOT PLANS. NOMINAL ESTIMATED QUANTITIES FOR MODIFIED URETHANE PAVEMENT MARKINGS ARE INCLUDED FOR USE AS DIRECTED BY THE ENGINEER.
- TELESCOPING STEEL SIGN SUPPORTS SHALL BE USED WITH TYPE ZZ SHEETING.
- SIGN PANELS LOCATED BETWEEN THE BACK OF CURB AND THE EDGE OF SHARED-USE PATH SHALL BE ERRECTED WITH A 2' MIN OFFSET FROM FACE OF CURB AND 7' MIN HEIGHT IN ACCORDANCE WITH STANDARD 720006-04. SIGNS LOCATED ALONG THE OUTSIDE OF THE PATH SHALL BE ERRECTED WITH A 3' OFFSET FROM EDGE OF HMA PATH AND 4' MIN/5' MAX HEIGHT.



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225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606
312-372-3011 (P) / 312-372-5974 (F)

USER NAME = GG	DESIGNED - JW	REVISED -
	DRAWN - JW	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

PLAN, PROFILE AND SIGNING PLAN
104TH AVENUE SHARED-USE PATH

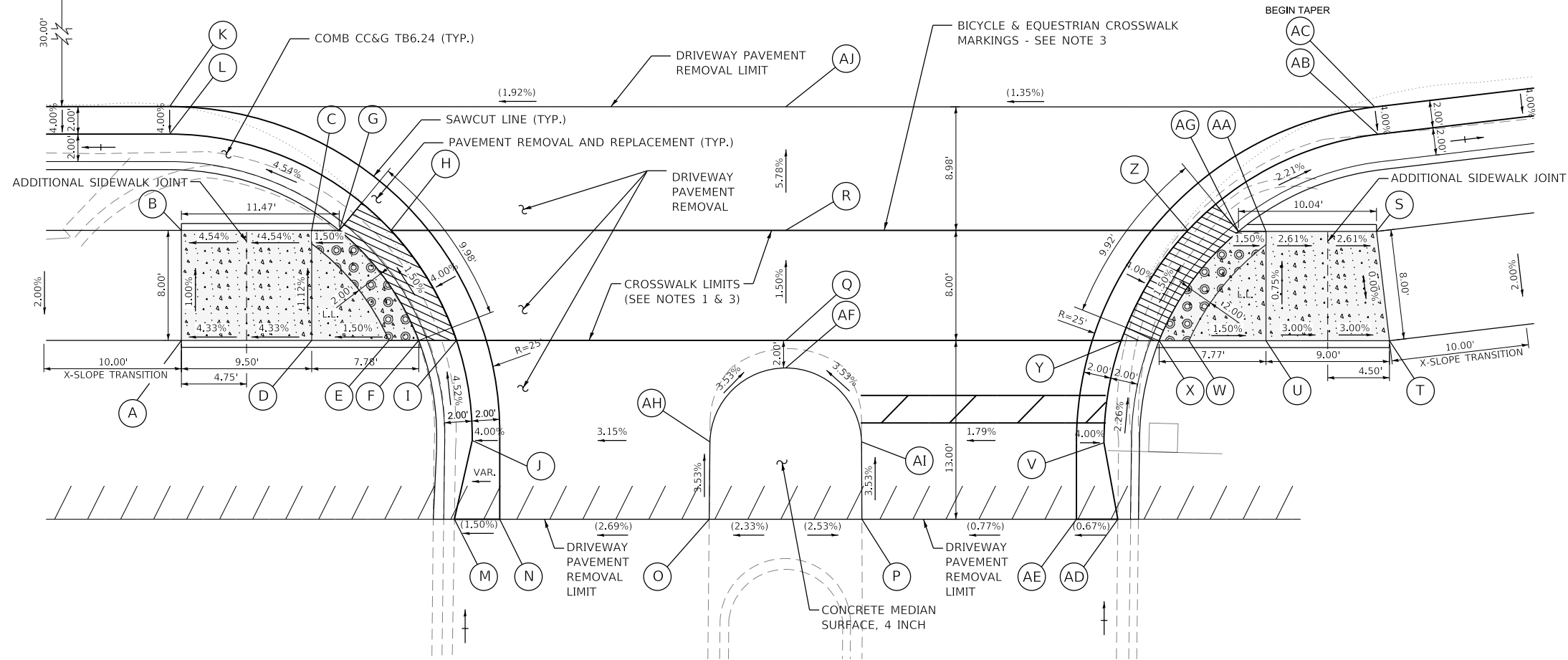
SCALE: 1"=50' SHEET 3 OF 3 SHEETS STA. 122+00 TO STA. 130+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	18
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

104TH AVENUE

109+00

CL 104TH AVENUE






POINT	STATION	OFFSET	ELEVATION
A	108+54.21	47.00' RT	703.98
B	108+54.21	39.00' RT	703.90
C	108+63.68	39.00' RT	704.33
D	108+63.68	47.00' RT	704.39
E	108+69.30	47.00' RT	704.47
F	108+74.21	47.00' RT	704.51
G	108+65.68	39.00' RT	704.36
H	108+69.45	39.00' RT	704.30
I	108+74.21	47.00' RT	704.48
J	108+75.35	54.27' RT	704.81
K	108+53.35	30.00' RT	(703.51)
L	108+53.35	32.00' RT	703.43
M	108+74.06	60.00' RT	(705.08)
N	108+77.35	60.00' RT	(705.16)
O	108+92.58	60.00' RT	(705.57)
P	109+03.68	60.00' RT	(705.56)
Q	108+98.15	47.00' RT	705.01
R	108+98.15	39.00' RT	704.89
S	109+41.09	39.00' RT	705.04
T	109+42.04	47.00' RT	705.04
U	109+33.06	47.00' RT	705.31
V	109+21.28	54.44' RT	705.57
W	109+27.46	47.00' RT	705.40
X	109+25.29	47.00' RT	705.43
Y	109+22.53	47.00' RT	705.40
Z	109+27.38	39.00' RT	705.22
AA	109+33.03	39.00' RT	705.25
AB	109+41.20	32.00' RT	704.87
AC	109+40.97	30.00' RT	704.95
AD	109+22.29	60.00' RT	(705.70)
AE	109+19.28	60.00' RT	(705.68)
AF	108+98.15	49.00' RT	705.07
AG	109+31.06	39.00' RT	705.28
AH	108+92.63	54.38' RT	705.37
AI	109+03.33	54.38' RT	705.37
AJ	108+98.15	30.00' RT	(704.37)

NOTES:

1. PROVIDE MAX. 1.50% CROSS SLOPE (NOT TO EXCEED 2.00% FOLLOWING CONSTRUCTION) FOR THE LENGTH OF THE CROSSWALK.
2. SEE CCDOTH STANDARD C-003 PCC SIDEWALK CONSTRUCTION ON SHEET 52 FOR ADDITIONAL INFORMATION.
3. BICYCLE & EQUESTRIAN CROSSWALK MARKINGS SHALL BE USED AS SHOWN ON TC-13 DISTRICT 1 TYPICAL PAVEMENT MARKINGS (SEE SHEET 48). MARKING PATTERN NOT SHOWN FOR CLARITY.

LEGEND

- () EXISTING ELEVATION/SLOPE
-  DEPRESSED CURB & GUTTER
-  DETECTABLE WARNINGS (SPECIAL)
-  PCC CONCRETE SIDEWALK, 8 INCH AGGREGATE BASE COURSE, TYPE B 4"
- L.L. LOWER LANDING

MODEL: D:\default\LOCHNER\PROJECTS\104TH AVENUE\104TH AVENUE_SHEETS\CADD\104TH AVENUE_SHEETS\104TH AVENUE_SHEETS\104TH AVENUE_SHEETS.dwg
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VILLAGE OF ORLAND PARK









ADA RAMPS DETAIL 104TH AVENUE SHARED-USE PATH

SCALE: 1"=50'

SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	19
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

LEGEND

-  WORK AREA
-  DIRECTION OF TRAFFIC
-  TYPE II BARRICADES OR DRUMS WITH STEADY BURN MONO DIRECTIONAL LIGHTS IN ONE WAY AND MULTILANE SECTIONS AND BIDIRECTIONAL LIGHTS IN TWTL SECTIONS, SPACED 50' C-C IN TANGENT SECTIONS; 20' C-C IN TAPER SECTIONS AND 10' C-C ALONG CORNER RADII
-  EXISTING SIGN
-  PROPOSED SIGN
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 (SEE STAGING SHEETS FOR DETAILS)
-  DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE TRAFFIC CONTROL PLANS SHALL SERVE AS A GUIDE FOR SAFE DIVERSION OF TRAFFIC DURING EXECUTION OF THIS CONTRACT. HOWEVER, THE CONTRACTOR MAY IMPROVE OR MODIFY THE TRAFFIC CONTROL PLANS TO MEET CONSTRUCTION NEEDS BUT NOT AT THE EXPENSE OF PUBLIC SAFETY OR CONVENIENCE. ANY CHANGES TO THE TRAFFIC CONTROL PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
2. ALL HIGHWAY TRAFFIC CONTROL STANDARDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION, SPECIAL.
3. DURING CONSTRUCTION OF PROPOSED IMPROVEMENTS ALONG COOK COUNTY HIGHWAYS, TWO-WAY TRAFFIC SHALL REMAIN OPEN FOR ALL TRAFFIC AT ALL TIMES. IF ANY ACTIVITY REQUIRES ENCROACHMENT INTO A LANE OPEN FOR TRAFFIC, THAT ACTIVITY SHALL BE RESTRICTED TO WITHIN THE HOURS OF 8:30 A.M. TO 4:30 P.M. FOLLOWING THE APPLICABLE IDOT AND IDOT-DISTRICT 1 TRAFFIC CONTROL STANDARDS INCLUDED IN THE PLANS FOR OFF-ROAD AND ON-ROAD APPLICATIONS.
4. IF ANY EXISTING PAVEMENT MARKING AND/OR SIGNING ALONG COOK COUNTY ROADWAYS IS DAMAGED DUE TO CONSTRUCTION OF PROPOSED IMPROVEMENTS, THE CONTRACTOR SHALL REPLACE THE DAMAGED TRAFFIC CONTROL DEVICES TO THE SATISFACTION OF COOK COUNTY PER IDOT AND IDOT DISTRICT 1 STANDARDS FOR TRAFFIC CONTROL DEVICES, PAVEMENT MARKING, AND SIGNAGE INCLUDED IN THE PLANS.
5. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE TO THE STAGING PLANS, OR ANY CHANGE IN STAGE.
6. ALL EXISTING SIGNS THAT ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLANS SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
7. ALL SIGNS SHALL BE POST MOUNTED UNLESS OTHERWISE NOTED.
8. ANY SAW CUTTING OF THE EXISTING PAVEMENT FOR STAGE CONSTRUCTION SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQ YD FOR "PAVEMENT REMOVAL".
9. PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
10. EXISTING PAVEMENT MARKINGS THAT INTERFERE WITH STAGE CONSTRUCTION PAVEMENT MARKINGS SHALL BE TEMPORARILY COVERED WITH PAVEMENT MARKING BLACKOUT TAPE WITHIN THE LIMITS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS.
11. THE CONTRACTOR MUST VERIFY FIELD CONDITIONS BEFORE STARTING ANY WORK. CONFLICTS, DISCREPANCIES, OMISSIONS MUST BE REPORTED TO THE ENGINEER.
12. ANY IDOT SIGN THAT IS COVERED OR CHANGED SHALL BE DONE IN A MANNER WHICH DOES NOT DAMAGE ANY SIGNS OR POSTS. ANY SIGN OR POST WHICH THE ENGINEER DETERMINES HAS BEEN DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
13. UTILIZE THE EXISTING SPEED LIMIT SIGNS WITHIN CONSTRUCTION LIMITS UNLESS NOTED OTHERWISE. SIZES SHALL MATCH THE SIZES OF THE EXISTING SIGNS IN FIELD.
14. TRAFFIC CONTROL AND PROTECTION FOR THE SIDE ROADS, INTERSECTIONS AND DRIVEWAYS SHALL FOLLOW DISTRICT 1 DETAIL TC-10.
15. THE CONTRACTOR SHALL COORDINATE THE SEQUENCE OF THE WORK AND MAINTENANCE OF TRAFFIC WITH THE WORK PERFORMED FOR THE PATH REPLACEMENT AT THE SOUTHEAST CORNER OF THE 159TH ST./104TH AVE INTERSECTION (ADJACENT CONTRACT 62P68).

SEQUENCE OF CONSTRUCTION

STAGE 1: 104TH STREET

MAINTENANCE OF TRAFFIC:

1. TRAFFIC ON 159TH STREET AND 104TH STREET WILL REMAIN OPEN AND MAINTAINED IN BOTH DIRECTIONS.
2. ALL SIDE STREETS WILL ALSO REMAIN OPEN IN BOTH DIRECTIONS.
3. PLACE TRAFFIC CONTROL DEVICES ON 159TH STREET AND 104TH STREET ACCORDING TO STAGING AND TRAFFIC CONTROL PLANS AND AS DIRECTED BY THE ENGINEER. UTILIZE IDOT STANDARDS 701001-02, 701006-05, 701201-05, 701301-04, 701311-03, 701502-09, 701701-10, 701801-06, 701901-08, 704001-08, 720001-01, 720006-04, 720011-01, 725001-001, 728001-01, 731001-01 AND 782006-01.
4. UTILIZE BARRICADES TO PROTECT SIDE ROADS, DRIVEWAYS, AND INTERSECTIONS PER DISTRICT 1 DETAIL TC-10.
5. SHIFT 104TH STREET TRAFFIC TO TEMPORARY TRAFFIC LANES ACCORDING TO STAGING AND TRAFFIC CONTROL PLANS AND AS DIRECTED BY THE ENGINEER. UTILIZE PEDESTRIAN BARRICADES TO CLOSE OFF SHARED-USE PATH WORK ZONE.

CONSTRUCTION ACTIVITIES:

1. REMOVE EXISTING PAVEMENT, CURB AND GUTTER, SHOULDER, AND GUARDRAIL ALONG EAST SIDE OF 104TH STREET AS REQUIRED TO WIDEN THE EXISTING ROADWAY AND CONSTRUCT THE PROPOSED MULTIUSE PATH.
2. CONSTRUCT STORM SEWER, PAVEMENT WIDENING, CURB AND GUTTER, GUARDRAIL, PROPOSED EMBANKMENT, COMPENSATORY STORAGE, 8' SHARED-USE PATH, BICYCLE RAILING, 72" CULVERT EXTENSION AT STA. 104+90, AND CULVERT HEADWALL MODIFICATIONS AT STA. 124+90 ACCORDING TO PLAN SHEETS AND AS DIRECTED BY THE ENGINEER.

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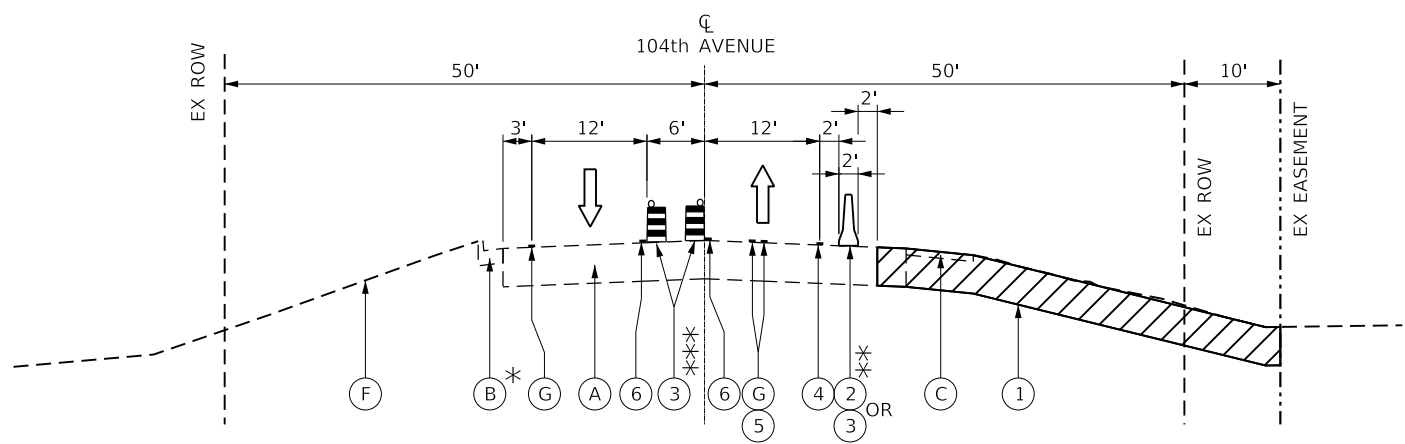
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VILLAGE OF ORLAND PARK

MAINTENANCE OF TRAFFIC GENERAL NOTES
104TH AVENUE SHARED-USE PATH

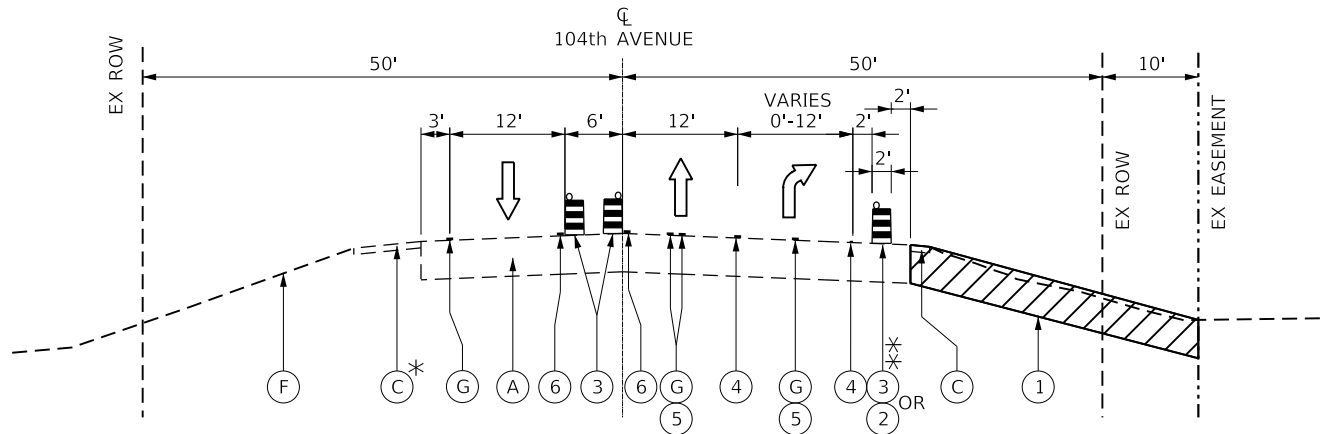
SCALE: 1"=50' SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	20
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



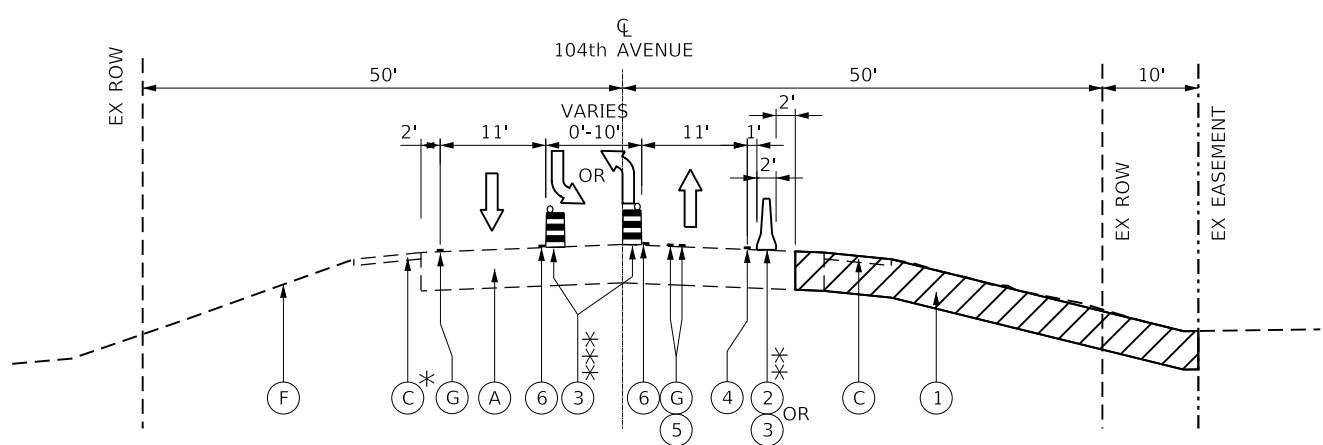
* EXISTING CC&G END STA. 103+55
 ** TYPE II BARRICADE OR DRUM LIMITS STA. 100+00 TO STA. 101+40
 TEMP CONCRETE BARRIER LIMITS STA. 101+40 TO STA. 104+85
 *** DRUMS NOT TO BE INSTALLED BETWEEN TURN LANES AND THROUGH LANES IN THE SAME DIRECTION. REFER TO MAINTENANCE OF TRAFFIC PLANS ON SHEETS 22 AND 23 FOR DETAILED PLACEMENT OF DRUMS.

STAGE 1
 STA 100+00 TO 104+85



* EXISTING SHOULDER BEGIN STA. 103+55
 ** TEMP CONCRETE BARRIER LIMITS STA. 104+85 TO STA. 106+85
 TYPE II BARRICADE OR DRUM LIMITS STA. 106+85 TO STA. 109+00

STAGE 1
 STA 104+85 TO 109+00.00



* CC&G LIMITS STA. 99+00 TO 100+00
 ** TYPE II BARRICADE OR DRUM LIMITS STA. 109+00 TO STA. 116+40
 TEMP CONCRETE BARRIER LIMITS STA. 116+40 TO STA. 129+50
 *** DRUMS NOT TO BE INSTALLED BETWEEN TURN LANES AND THROUGH LANES IN THE SAME DIRECTION. REFER TO MAINTENANCE OF TRAFFIC PLANS ON SHEETS 22 AND 23 FOR DETAILED PLACEMENT OF DRUMS.

STAGE 1
 STA. 99+00 TO 100+00
 STA 109+00 TO 129+50

LEGEND

- (A) EXISTING HMA PAVEMENT 12"
- (B) EXISTING COMBINATION CURB AND GUTTER, TYPE B-6.24
- (C) EXISTING GRAVEL SHOULDER
- (D) EXISTING HMA SHOULDER
- (E) EXISTING GUARDRAIL
- (F) EXISTING TOPOSOIL
- (G) EXISTING PAVEMENT MARKING
- (1) WORK ZONE
- (2) TEMPORARY CONCRETE BARRICADE
- (3) TYPE II BARRICADE OR DRUM
- (4) TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE (WHITE)
- (5) PAVEMENT MARKING BLACKOUT TAPE, 5"
- (6) TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE (YELLOW)

MODEL: Default
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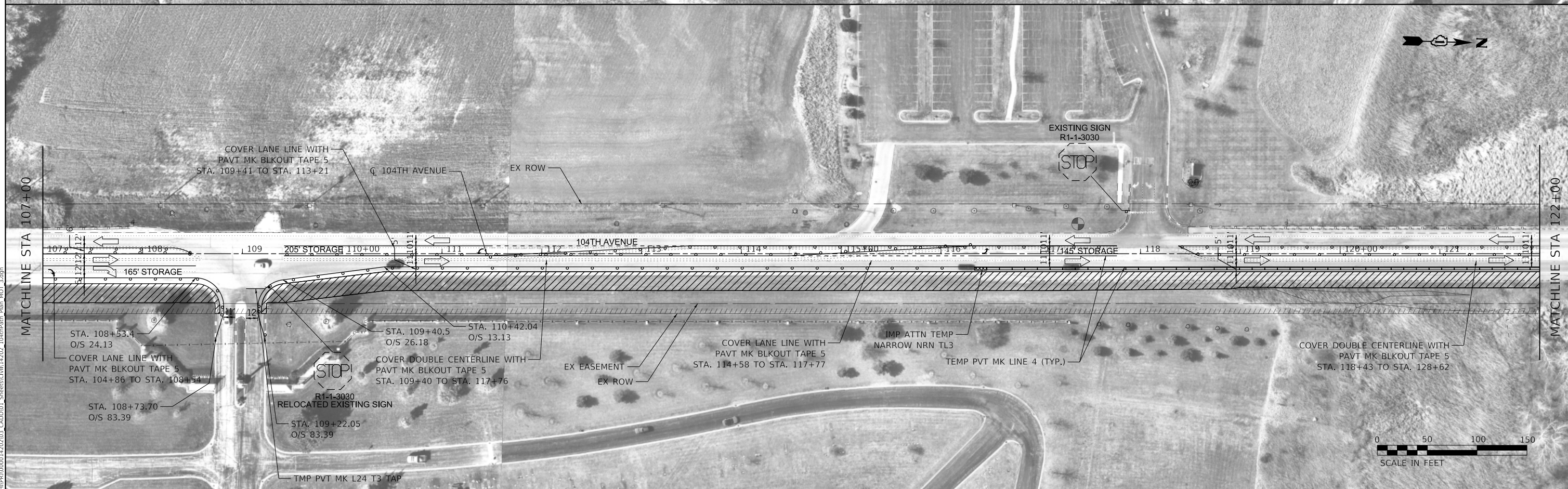
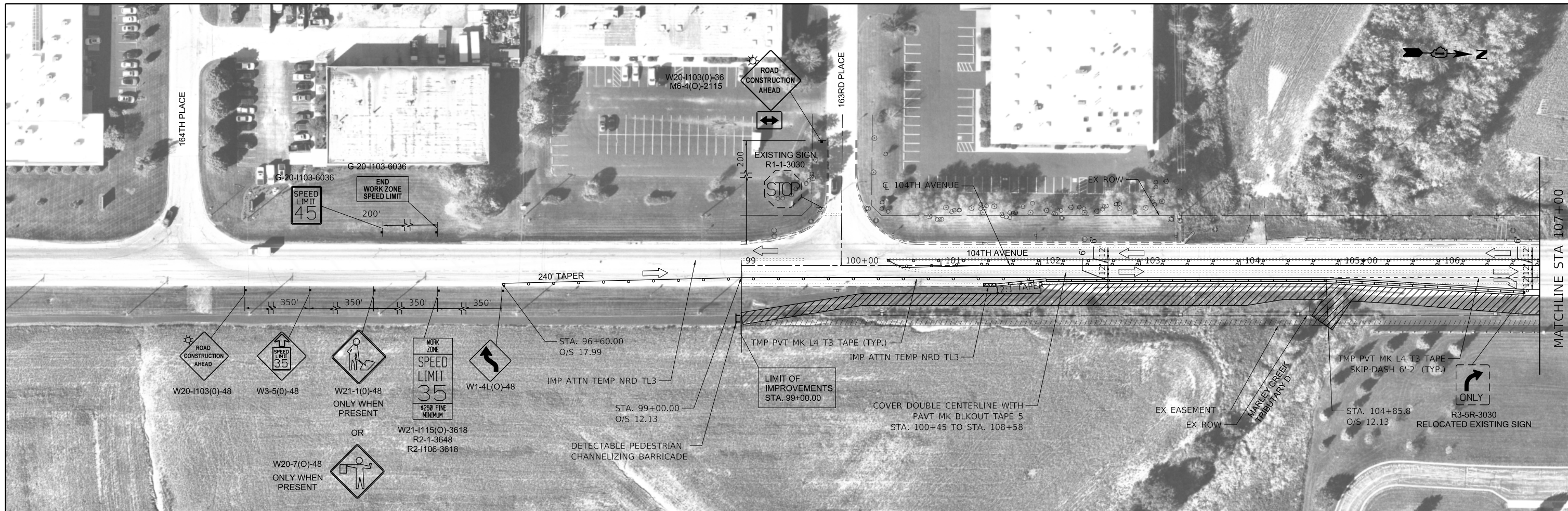
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VILLAGE OF ORLAND PARK

MAINTENANCE OF TRAFFIC TYPICAL SECTIONS
 104TH AVENUE SHARED-USE PATH

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	21
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



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VILLAGE OF ORLAND PARK

**MAINTENANCE OF TRAFFIC PLANS
 104TH AVENUE SHARED-USE PATH**

F.A.U. RTE. 2696	SECTION 15-00077-00-BT	COUNTY COOK	TOTAL SHEETS 86	SHEET NO. 22
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

SCALE: 1"=50' SHEET 3 OF 4 SHEETS STA. 99+00 TO STA. 122+00

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2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037



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LOCHNER
 CONSULTING ENGINEERS & PLANNERS
 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606
 312-372-3011 (P) / 312-372-5974 (F)

USER NAME = GG	DESIGNED - JW	REVISED -
PLOT SCALE =	DRAWN - JW	REVISED -
PLOT DATE = 10/26/2022	CHECKED - AM	REVISED -
	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**MAINTENANCE OF TRAFFIC PLANS
104TH AVENUE SHARED-USE PATH**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	23
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 4 OF 4 SHEETS STA. 122+00 TO STA. 130+00

EROSION AND SEDIMENT CONTROL NOTES

- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED TO THE STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL, LATEST EDITION, THE CONTRACT SPECIFICATIONS, SECTION 280 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
- EROSION CONTROL MEASURES AS INDICATED IN THE PLAN OR AS DIRECTED BY THE ENGINEER MUST BE INSTALLED ON THE PROJECT SITE PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY WHICH WILL CREATE POTENTIALLY ERODIBLE CONDITIONS.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
 - UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
 - ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
- TEMPORARY SEED ALL BARE AND ERODIBLE AREAS EVERY SEVEN DAYS AS DIRECTED BY THE ENGINEER. TEMPORARY MULCH ALL SEEDED AREAS ACCORDING TO ARTICLE 251.03(B) OR ARTICLE 251.03(C). EROSION CONTROL BLANKET CAN BE USED INSTEAD OF MULCH ACCORDING ARTICLE 251.04.
- INLET FILTERS WILL BE INSTALLED IN ALL CATCH BASINS, INLETS AND OPEN LID MANHOLES AS DIRECTED BY THE ENGINEER. THE FILTERS SHALL BE MAINTAINED IN THE ENTIRE DURATION OF THE PROJECT.
- A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN DESIGN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE, SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. THE LOCATIONS OF ALL STABILIZED ENTRANCES ARE SUBJECT TO APPROVAL BY THE ENGINEER. SUGGESTED OR POTENTIAL LOCATIONS MAY BE SHOWN ON THE PLANS.
- CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
- SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PRONE AREAS OR THEIR BUFFERS. THE STOCKPILE LOCATIONS SHALL BE DETERMINED AT THE TIME OF THE PRECONSTRUCTION MEETING AND ARE SUBJECT TO THE APPROVAL OF THE ENGINEER AND COOK COUNTY DEPARTMENT OF TRANSPORTATION AND HIGHWAYS. SUGGESTED LOCATIONS ARE SHOWN ON THE PLANS.
- SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
- ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
- THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER.
- SEDIMENT TRAPS, SEDIMENT BASINS, DITCHES, SEDIMENT CONTROL, SILT FENCE, STONE OUTLET STRUCTURES, EARTH BERMS, ETC. SHALL BE MAINTAINED DURING THE CONSTRUCTION SEASON AS WELL AS THE WINTER MONTHS AND OTHER TIMES WHEN THE PROJECT IS CLOSED DOWN. TRAPS WILL BE CLEANED WHEN THEY ARE 50% FILLED, STONE OUTLET STRUCTURES SHALL HAVE SEDIMENT REMOVED WHEN IT REACHES 50% THE HEIGHT OF THE CONTROL DEVICE. PERIMETER BARRIER FENCE SHALL HAVE SEDIMENT REMOVED WHEN IT REACHES ONE-THIRD OF THE BARRIER HEIGHT. THESE SPOILS WILL BE REMOVED TO AN APPROVED SITE.
- THE WILL/SOUTH COOK SOIL AND WATER CONSERVATION DISTRICT (WCSWCDD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION MEETING, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS, A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED FOR REVIEW BY THE WCSWCDD.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE WCSWCDD.
- DURING DEWATERING OPERATIONS, WATER WILL BE FILTERED, OR PUMPED INTO SEDIMENT BASINS, SILT TRAPS OR DEWATERING BAGS. DEWATERING DIRECTLY INTO STREAMS, WETLANDS, FIELD TILES, OR STORMWATER STRUCTURES IS PROHIBITED. SEE IN-WATERWAY WORK NOTES FOR ADDITIONAL INFORMATION.
- IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S), WHO MAY PERFORM WORK ON THIS SITE/PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

IN-WATERWAY WORK NOTES

- WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS. LOW FLOW CONDITIONS ARE AT OR BELOW THE NORMAL WATER ELEVATION.
- THE IN-STREAM WORK PLAN MUST BE SUBMITTED TO THE ENGINEER PRIOR TO THE START OF WORK NEAR THE WATERS OF THE US. THE PLAN MUST BE DESIGNED TO ALLOW FOR THE CONVEYANCE OF THE 2-YEAR PEAK FLOW PAST THE WORK AREA WITHOUT OVERTOPPING THE COFFERDAM. THE CORPS HAS THE DISCRETION TO REDUCE THIS REQUIREMENT IF DOCUMENTED BY THE APPLICANT TO BE INFEASIBLE OR UNNECESSARY.
- WATER MUST BE ISOLATED FROM THE IN-STREAM WORK AREA USING A COFFERDAM CONSTRUCTED OF NON-ERODIBLE MATERIALS (STEEL SHEETS, AQUA BARRIERS, RIP RAP AND GEOTEXTILE LINER, ETC.). EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.
- THE COFFERDAM MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER THE WATER AT ANY TIME. IF THE INSTALLATION OF THE COFFERDAM CANNOT BE COMPLETED FROM SHORE AND ACCESS IS NEEDED TO REACH THE AREA TO BE COFFERED, OTHER MEASURES, SUCH AS THE CONSTRUCTION OF A CAUSEWAY, WILL BE NECESSARY TO ENSURE THAT EQUIPMENT DOES NOT ENTER THE WATER. ONCE THE COFFERDAM IS IN PLACE AND THE ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK.
- IF BYPASS PUMPING IS NECESSARY, THE INTAKE HOSE MUST BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM ENTERING THE HOSE. THE BYPASS DISCHARGE MUST BE RELEASED ONTO A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW AND MUST NOT CAUSE EROSION. FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS THE BYPASS WATER HAS BECOME SEDIMENT-LADEN AS A RESULT OF THE CURRENT CONSTRUCTION ACTIVITIES.
- DURING DEWATERING OF THE COFFERED WORK AREA, ALL SEDIMENT-LADEN WATER MUST BE FILTERED TO REMOVE SEDIMENT. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS SYSTEMS, DEWATERING BAGS, OR OTHER APPROPRIATE METHODS. WATER MUST HAVE SEDIMENT REMOVED PRIOR TO BEING RE-INTRODUCED TO THE DOWNSTREAM WATERWAY. A STABILIZED CONVEYANCE FROM THE DEWATERING DEVICE TO THE WATERWAY MUST BE IDENTIFIED IN THE PLAN. DISCHARGE WATER MUST NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY.
- THE AREA FROM THE TOE TO THE TOP OF THE SIDE SLOPE MUST BE TEMPORARILY STABILIZED DURING CONSTRUCTION TO REDUCE THE POTENTIAL FOR EROSION. ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES MUST BE RESTORED TO PROPOSED CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.
- THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE VILLAGE. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-WATERWAY WORK PLAN TO THE VILLAGE FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-WATERWAY WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-WATERWAY WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-WATERWAY WORK PLAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

EROSION AND SEDIMENT CONTROL WETLAND AND WATERS OF THE U.S. NOTES

- WETLAND AREAS OUTSIDE OF THE WORK ZONE ARE TO BE AVOIDED. IF THE CONTRACTOR SHOULD ENCROACH UPON ANY WETLAND AREA THAT IS NOT WITHIN THE CONSTRUCTION LIMITS AND/OR PERMITTED FOR IMPACT THROUGH THE USACE, THE CONTRACTOR IS SUBJECT TO FINES. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY WETLAND IMPACTS OUTSIDE OF THE WORK ZONE. IMPACTED AREAS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR IN COORDINATION WITH AND TO THE SATISFACTION OF THE USACE.
- ALL WETLANDS, WATERS OF THE U.S. AND OPEN WATER DETENTION FACILITIES ARE SUBJECT TO THE REVIEW AND APPROVAL BY RESOURCE AND REGULATORY AGENCIES. THOSE AGENCIES INCLUDE BUT ARE NOT LIMITED TO THE USACE, THE ILLINOIS DEPARTMENT OF NATURAL RESOURCES, THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, AND THE COUNTY SOIL AND WATER CONSERVATION DISTRICTS.

CONSTRUCTION SEQUENCE NOTES

NOTE THAT CONSTRUCTION IS ESTIMATED TO START BY MARCH 6, 2023 AND BE COMPLETED BY OCTOBER 27, 2023.

- INSTALL PERIMETER AND IN-STREAM EROSION CONTROL MEASURES, INLET FILTERS ON EXISTING INLETS, AND STABILIZED CONSTRUCTION ENTRANCES PRIOR TO DEMOLITION AND GRADING WORK.
- TOPSOIL STRIPPING, CLEARING AND ROUGH GRADING. CONSTRUCT PROPOSED DITCHES AND INSTALL TEMPORARY DITCH CHECKS. UTILIZE TEMPORARY VEGETATIVE STABILIZATION MEASURES AND USE PERMANENT MEASURES AS MUCH AS PRACTICAL.
- REMOVE 3 FOOT WIDTH OF PAVEMENT ALONG THE EAST SIDE OF 104TH AVENUE AND INSTALL STORM SEWER SYSTEM, CULVERT EXTENSIONS AND BOX CULVERT HEADWALL MODIFICATION. INSTALL INLET FILTERS IN NEW INLETS.
- INSTALL REINFORCED SOIL SLOPE SYSTEM AND PLACE PERMANENT VEGETATION/STABILIZATION AS THE EMBANKMENT AND EXCAVATION WORK PROGRESSES.
- CONSTRUCT 2 FOOT WIDE HMA SHOULDER AND TYPE B-6.24 CURB AND GUTTER ALONG THE EAST SIDE OF 104TH AVENUE.
- CONSTRUCT HMA SHARED-USE PATH.
- INSTALL GUARDRAIL AND PEDESTRIAN RAIL.
- COMPLETE THE PERMANENT LANDSCAPING.
- PERFORM CONTINUING MAINTENANCE THROUGHOUT THE CONTRACT DURATION.

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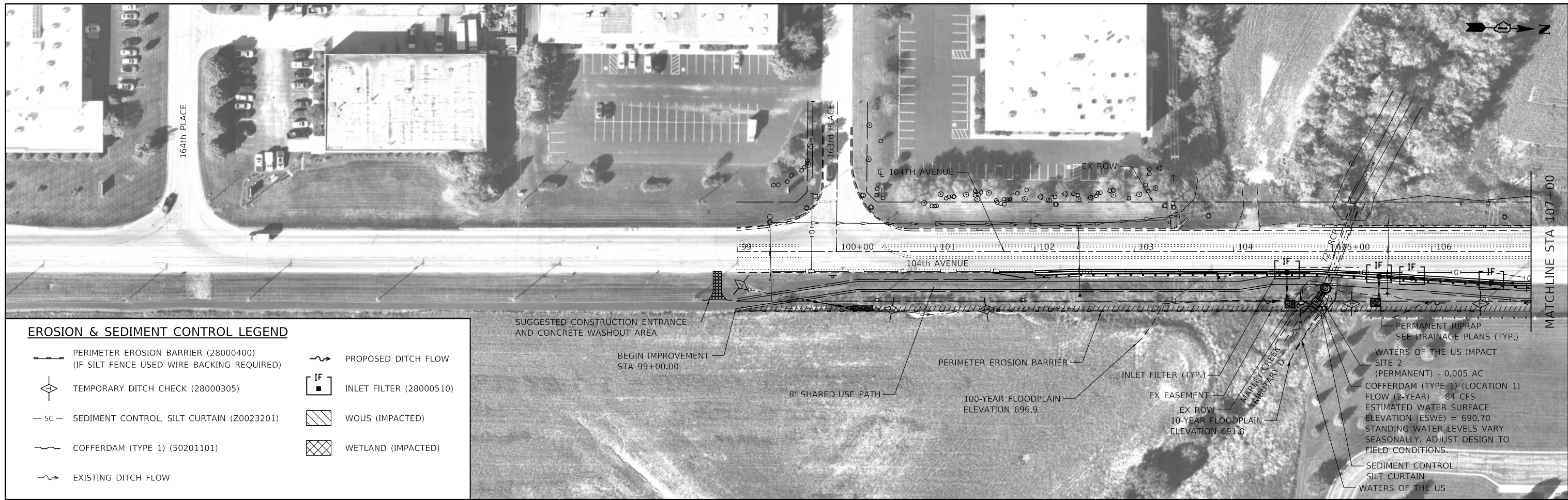
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VILLAGE OF ORLAND PARK










EROSION AND SEDIMENT CONTROL NOTES
104TH AVENUE SHARED-USE PATH

SCALE: 1"=50' SHEET 1 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	24
CONTRACT NO. 61H84				
		ILLINOIS	FED. AID PROJECT	



EROSION & SEDIMENT CONTROL LEGEND

-  PERIMETER EROSION BARRIER (28000400)
(IF SILT FENCE USED WIRE BACKING REQUIRED)
-  TEMPORARY DITCH CHECK (28000305)
-  SC SEDIMENT CONTROL, SILT CURTAIN (20023201)
-  COFFERDAM (TYPE 1) (50201101)
-  EXISTING DITCH FLOW
-  PROPOSED DITCH FLOW
-  IF INLET FILTER (28000510)
-  WOUS (IMPACTED)
-  WETLAND (IMPACTED)



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VILLAGE OF ORLAND PARK

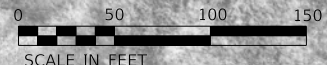
**EROSION AND SEDIMENT CONTROL PLANS
104TH AVENUE SHARED-USE PATH**

SCALE: 1"=50' SHEET 2 OF 9 SHEETS STA. 99+00 TO STA. 122+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	25
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA 122+00



EROSION & SEDIMENT CONTROL LEGEND

- PERIMETER EROSION BARRIER (28000400)
(IF SILT FENCE USED WIRE BACKING REQUIRED)
- TEMPORARY DITCH CHECK (28000305)
- SEDIMENT CONTROL, SILT CURTAIN (Z0023201)
- COFFERDAM (TYPE 1) (50201101)
- EXISTING DITCH FLOW
- PROPOSED DITCH FLOW
- INLET FILTER (28000510)
- WOU (IMPACTED)
- WETLAND (IMPACTED)

NOTES

1. CONTRACTOR TO RELOCATE COFFERDAM IN THE VICINITY OF THE CULVERT OPENING TO ALLOW WATER PASSAGE AFTER HEADWALL MODIFICATION IS COMPLETED AND PROPERLY CURED.

WETLAND IMPACT SITE 1 (TEMPORARY) - 0.027 AC
 COFFERDAM (TYPE 1) (LOCATION 2)
 ESTIMATED WATER SURFACE ELEVATION (ESWE) = 681.4
 STANDING WATER LEVELS VARY SEASONALLY. ADJUST DESIGN TO FIELD CONDITIONS.
 WETLAND IMPACT SITE 1 (PERMANENT) - 0.001 AC
 WATERS OF THE US
 SEDIMENT CONTROL, SILT CURTAIN
 100-YEAR FLOODPLAIN ELEVATION 686.6
 10-YEAR FLOODPLAIN ELEVATION 682.5
 WATERS OF THE US IMPACT SITE 1 (TEMPORARY) - 0.064 AC

SEE NOTE 1
 8' SHARED-USE PATH
 EX EASEMENT
 EX ROW
 WETLAND IMPACT SITE 1 (TEMPORARY) - 0.026 AC
 INLET FILTER (TYP.)

STA. 127+81.31
 INTERSECTION IMPROVEMENTS AND ROUGH GRADING FOR THE PATH WERE CONSTRUCTED IN PREVIOUS CONTRACT 60L72

END IMPROVEMENT STA. 129+57.81

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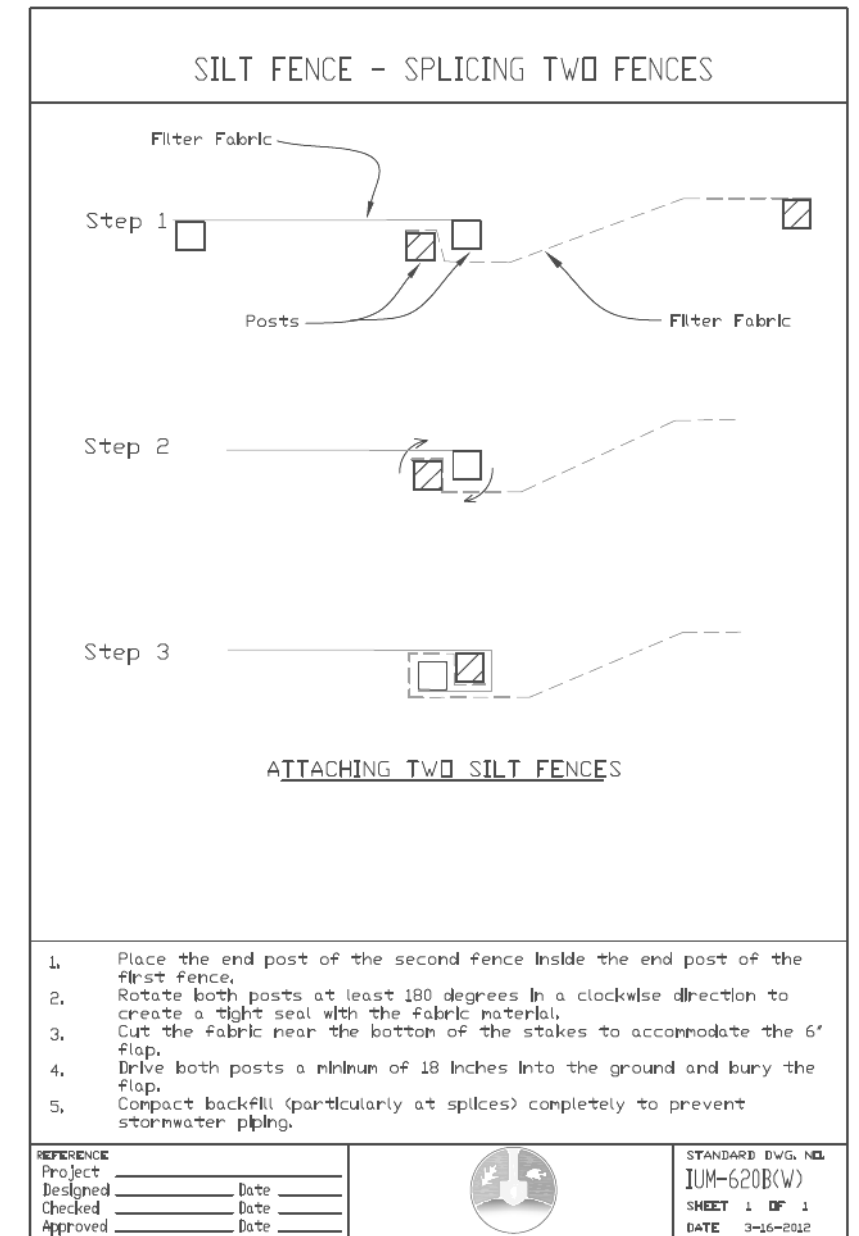
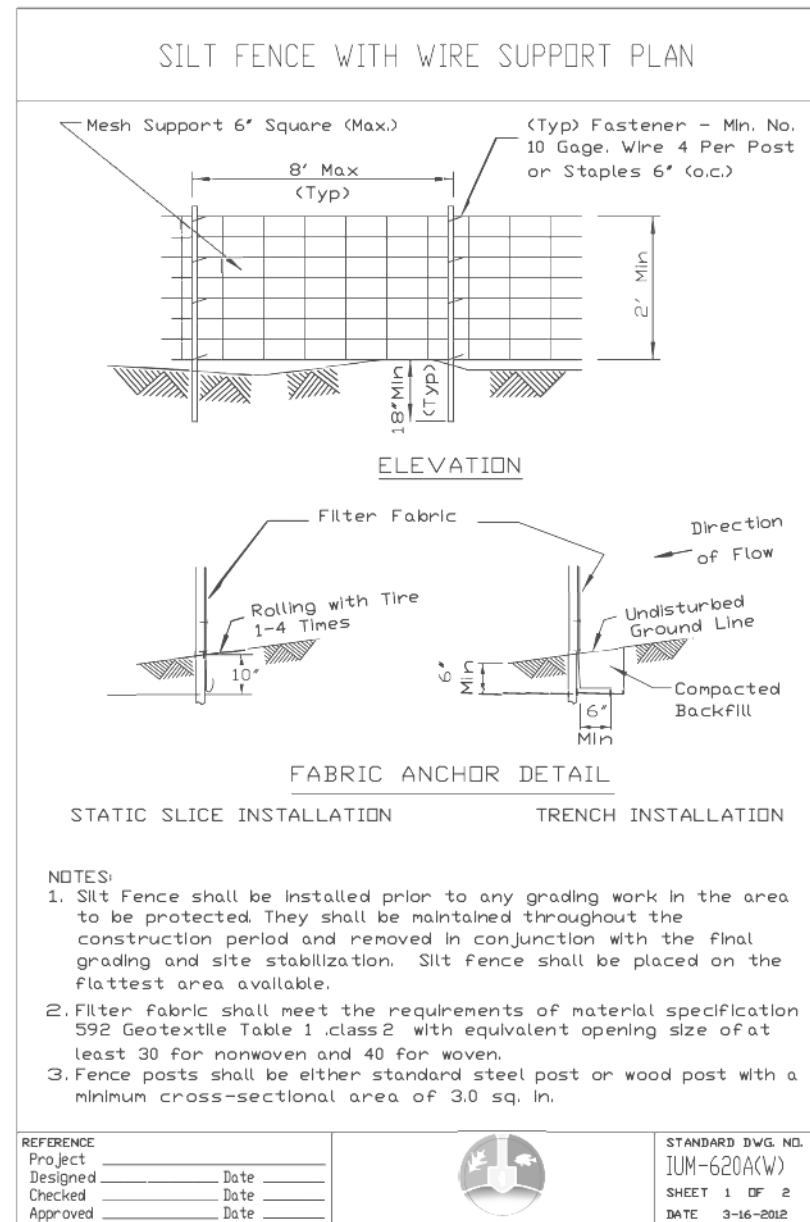
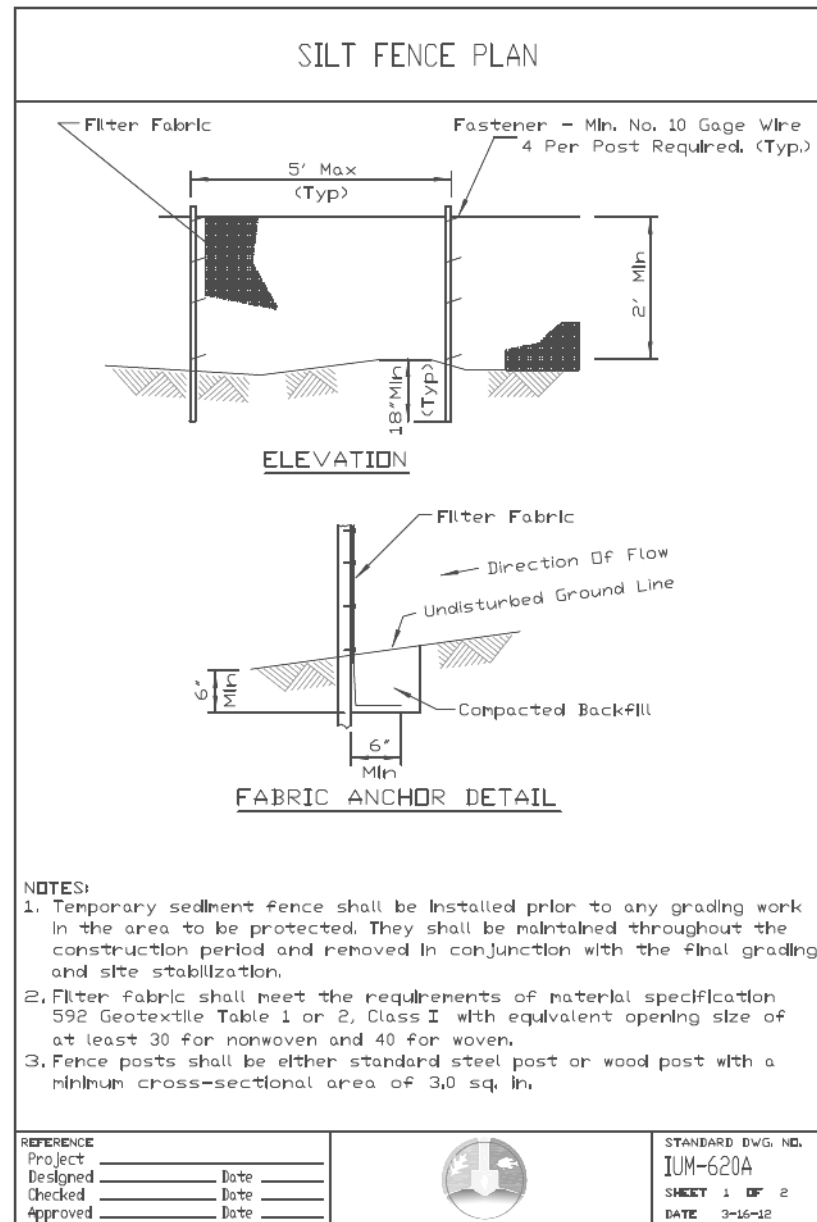
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VILLAGE OF ORLAND PARK

EROSION AND SEDIMENT CONTROL PLANS	
104TH AVENUE SHARED-USE PATH	
SCALE: 1"=50'	SHEET 3 OF 9 SHEETS
STA. 122+00	TO STA. 130+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	26
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

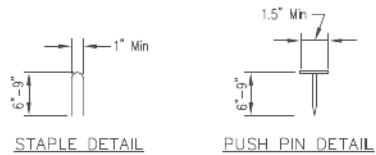
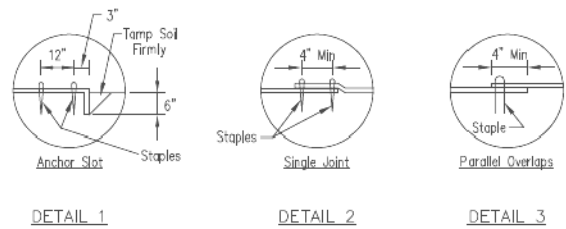
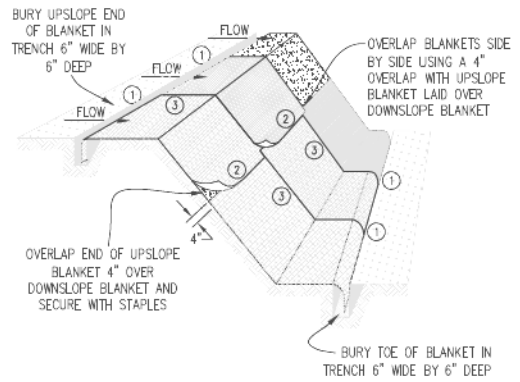


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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	27
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

AUTOCAD2006

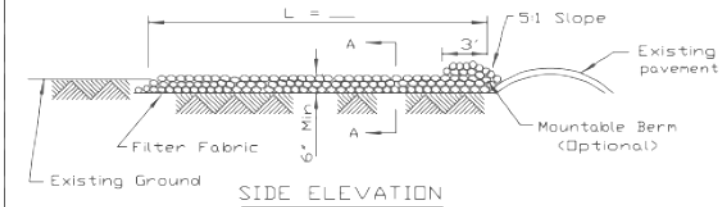
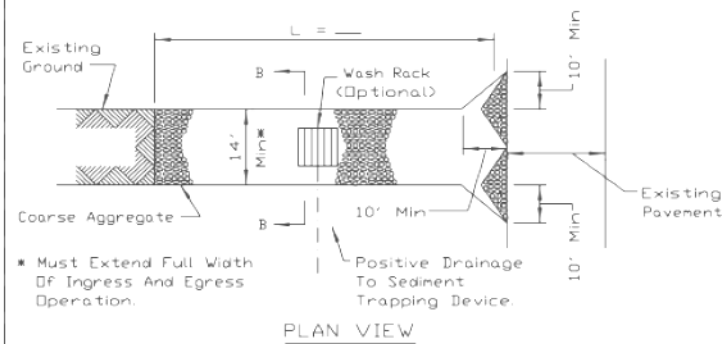


NOTES:

1. Staples shall be placed in a diamond pattern at 2 per s.y. for stiched blankets. Non-stiched shall use 4 staples per s.y. of material. This equates to 200 staples with stiched blanket and 400 staples with non-stiched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be stapled at approximately 12" intervals.

EROSION CONTROL
BLANKET INSTALLATION DETAILS

STABILIZED CONSTRUCTION ENTRANCE PLAN



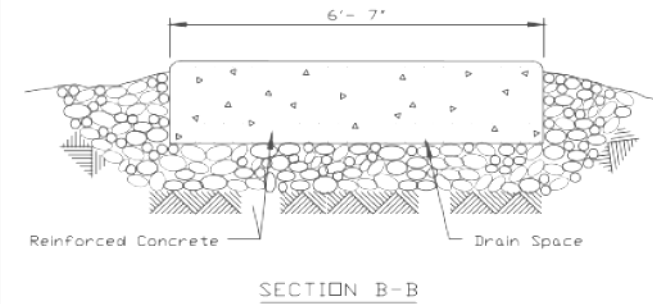
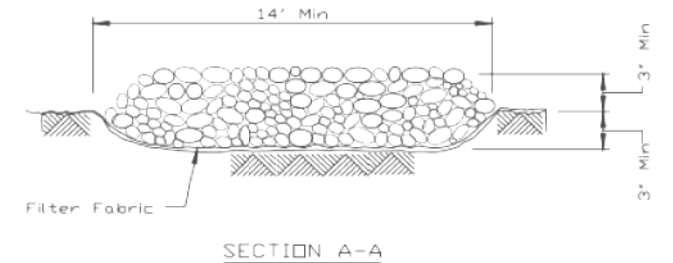
NOTES:

- 1 Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
- 2 Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
- 3 Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
- 4 If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE	Project _____	STANDARD DWG. NO.
Designed	Date _____	IL-630
Checked	Date _____	SHEET 1 OF 2
Approved	Date _____	DATE 8-18-94



STABILIZED CONSTRUCTION ENTRANCE PLAN



REFERENCE	Project _____	STANDARD DWG. NO.
Designed	Date _____	IL-630
Checked	Date _____	SHEET 2 OF 2
Approved	Date _____	DATE 8-18-94



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VILLAGE OF ORLAND PARK

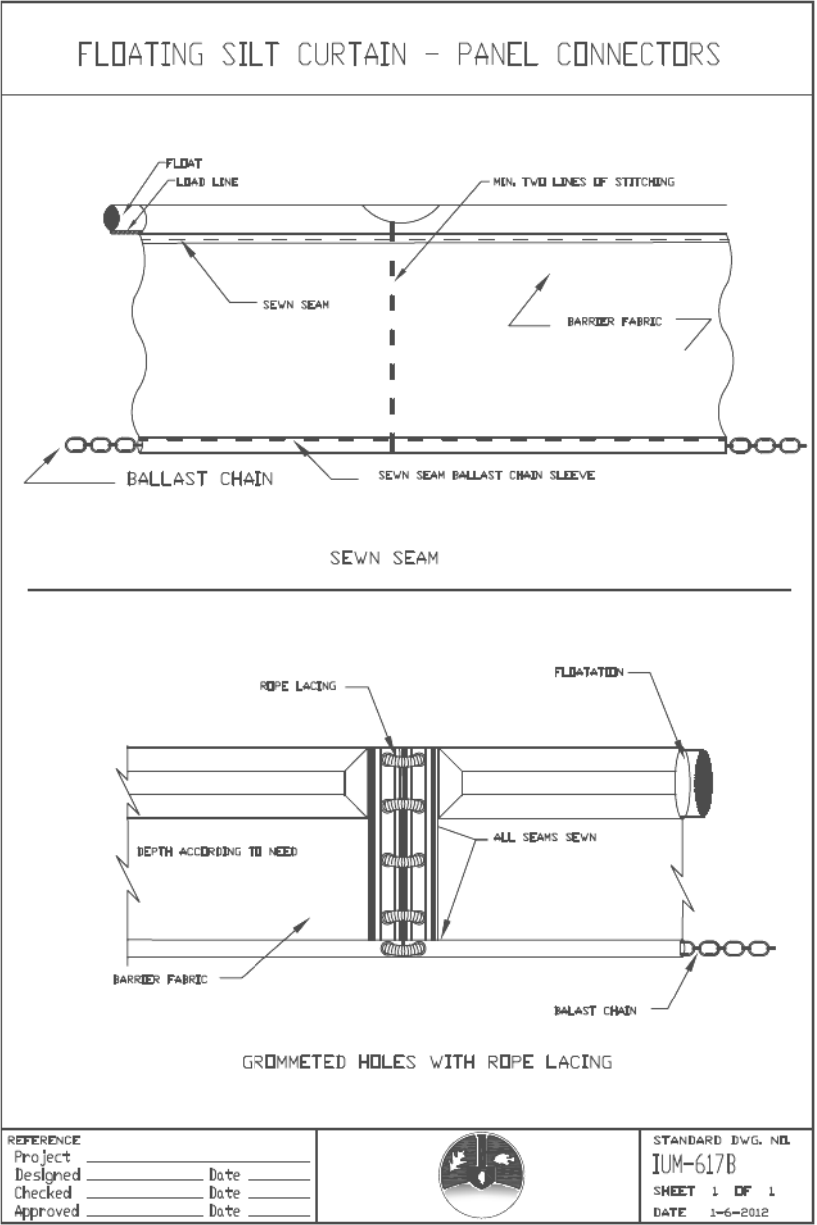
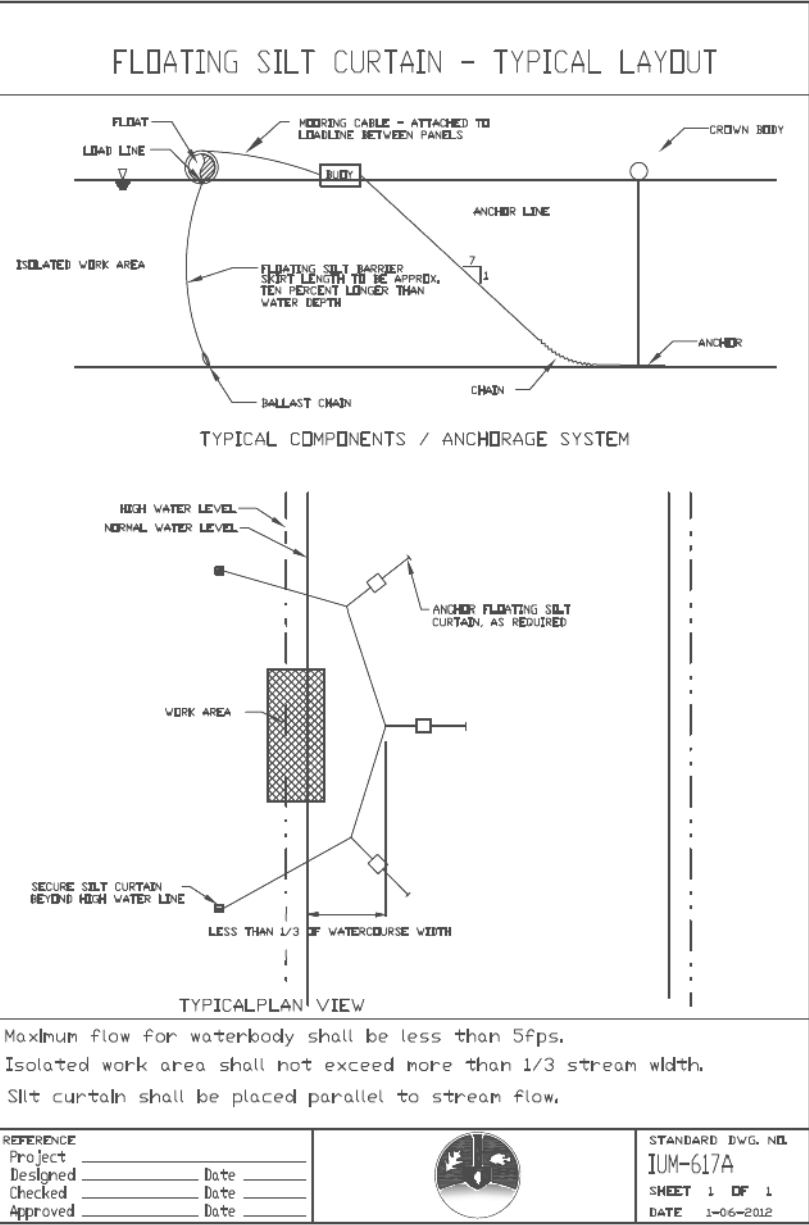
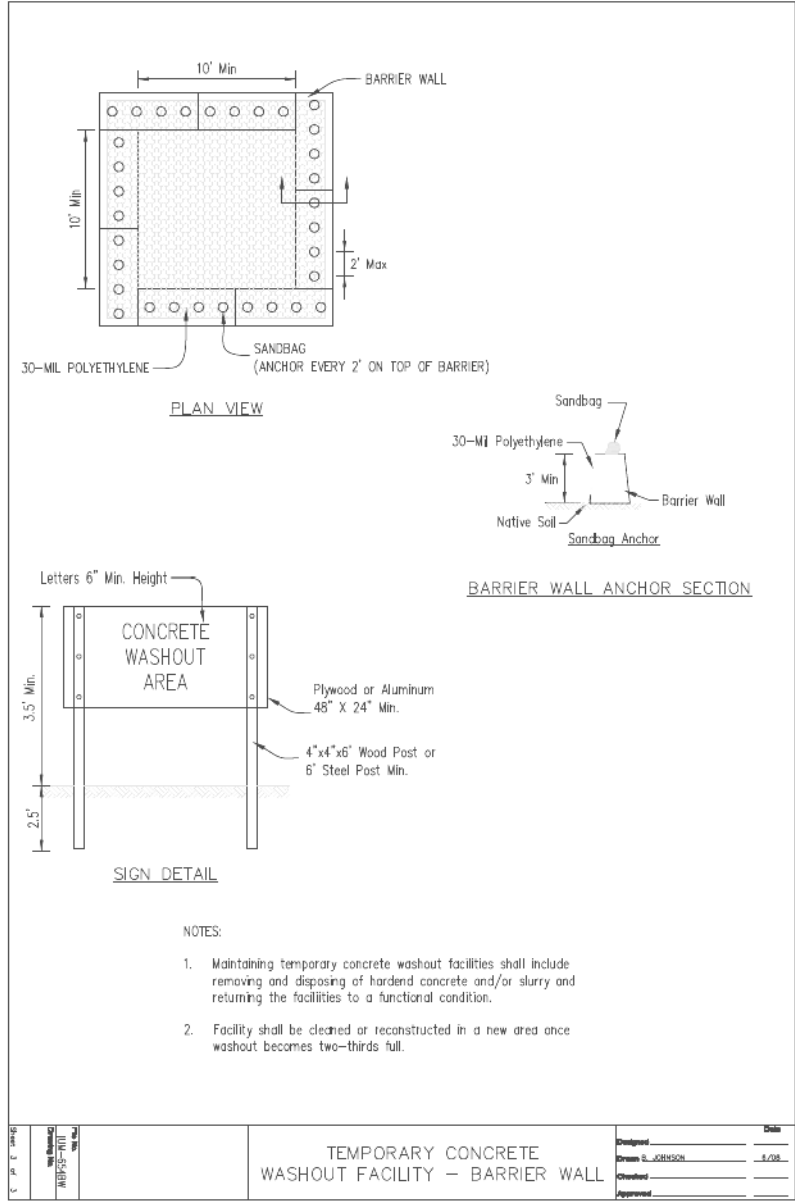
EROSION AND SEDIMENT CONTROL DETAILS
104TH AVENUE SHARED-USE PATH

SCALE: 1"=50' SHEET 5 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	28
CONTRACT NO. 61H84				

ILLINOIS FED. AID PROJECT

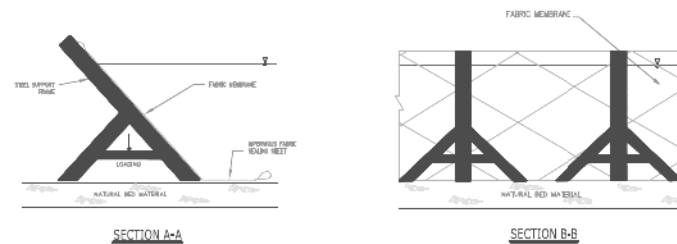
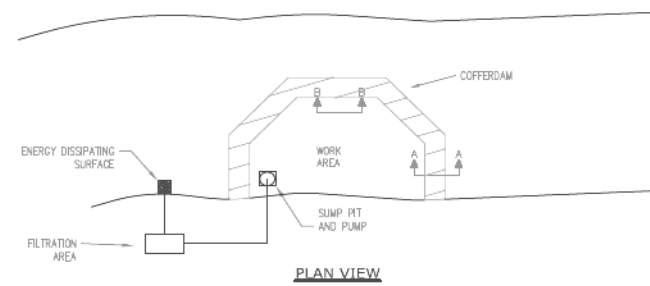
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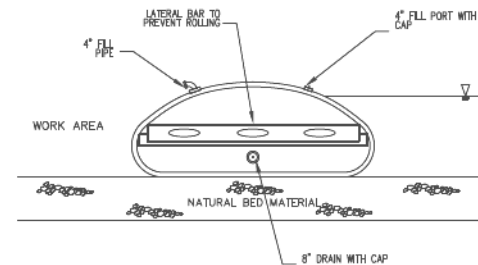
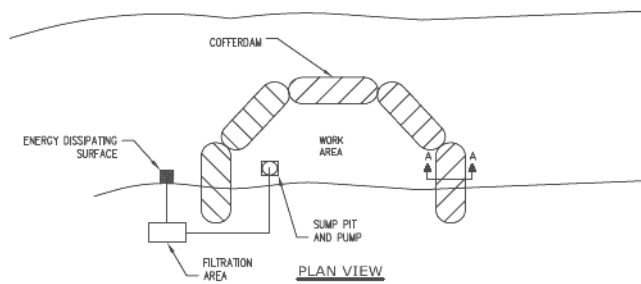
A-FRAME PARTIAL COFFERDAM



- NOTES:
1. ALL DISCHARGES SHOULD BE ON ENERGY DISSIPATING SURFACES.
 2. LOCATIONS FOR SUMP PIT, FILTRATION AREA, AND ENERGY DISSIPATING SURFACES MAY VARY DEPENDING ON SITE CONDITIONS.
 3. A-FRAME SHOULD BE INSTALLED TO MANUFACTURER'S SPECIFICATIONS.

REFERENCE	STANDARD DWG. NO.
Project _____	IUM-503AP
Designed _____ Date _____	SHEET 2 OF 7
Checked _____ Date _____	DATE 7-09-2012
Approved _____ Date _____	

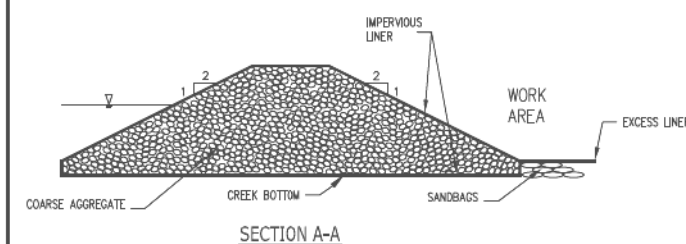
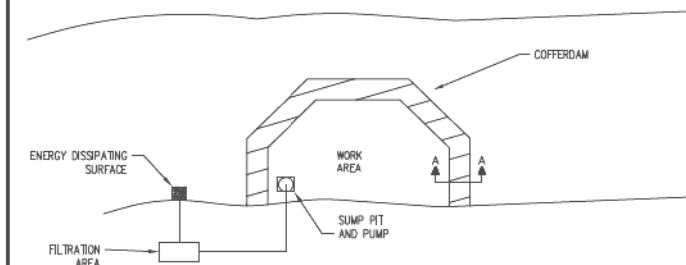
BLADDER PARTIAL COFFERDAM



- NOTES:
1. ALL DISCHARGES SHOULD BE ON ENERGY DISSIPATING SURFACES.
 2. LOCATIONS FOR THE SUMP PIT, FILTRATION AREA, AND ENERGY DISSIPATING SURFACES MAY VARY DEPENDING ON SITE CONDITIONS.

REFERENCE	STANDARD DWG. NO.
Project _____	IUM-503BP
Designed _____ Date _____	SHEET 4 OF 7
Checked _____ Date _____	DATE 7-09-2012
Approved _____ Date _____	

ROCK PARTIAL COFFERDAM



- NOTES:
1. THE LINER SHALL BE PLACED ON BOTTOM OF WATERWAY W/EXCESS LINER EXTENDING OUT OF THE COFFERED AREA. ONCE STONE IS PLACED, LINER WILL BE PULLED OVER ROCK AND EXTEND BEYOND THE PILE ON THE DOWNSTREAM SIDE. SANDBAGS WILL SECURE THE EXCESS LINER AS SHOWN. REFER TO THE STANDARD FOR LINER SPECIFICATIONS.

REFERENCE	STANDARD DWG. NO.
Project _____	IUM-503RP
Designed _____ Date _____	SHEET 6 OF 7
Checked _____ Date _____	DATE 7-09-2012
Approved _____ Date _____	

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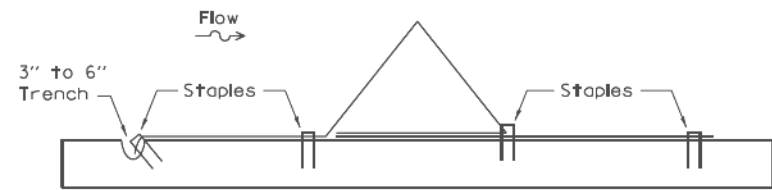
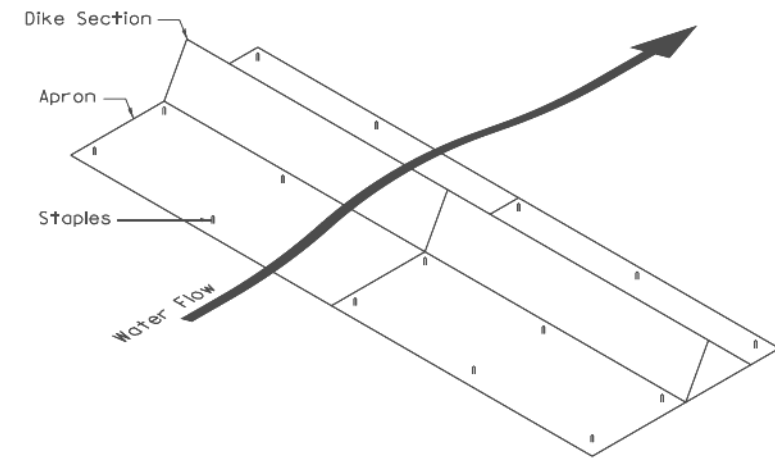
VILLAGE OF ORLAND PARK

EROSION AND SEDIMENT CONTROL DETAILS
104TH AVENUE SHARED-USE PATH

SCALE: 1"=50' SHEET 7 OF 9 SHEETS STA. TO STA.

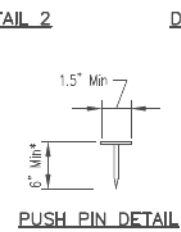
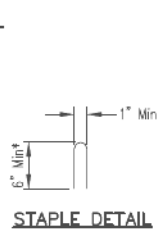
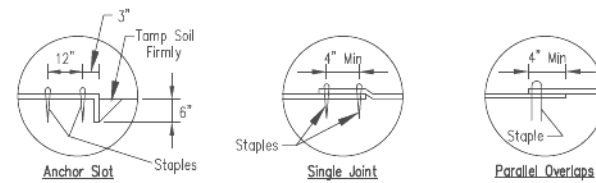
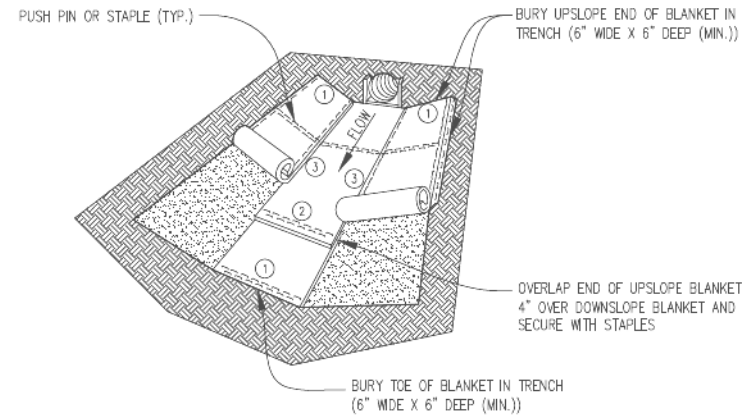
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2696	15-00077-00-BT	COOK	86	30
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

URETHANE FOAM GEOTEXTILES



REFERENCE	STANDARD DWG. NO.
Project _____	IUM-514
Designed _____ Date _____	SHEET 1 OF 1
Checked _____ Date _____	DATE 6-30-11
Approved _____ Date _____	

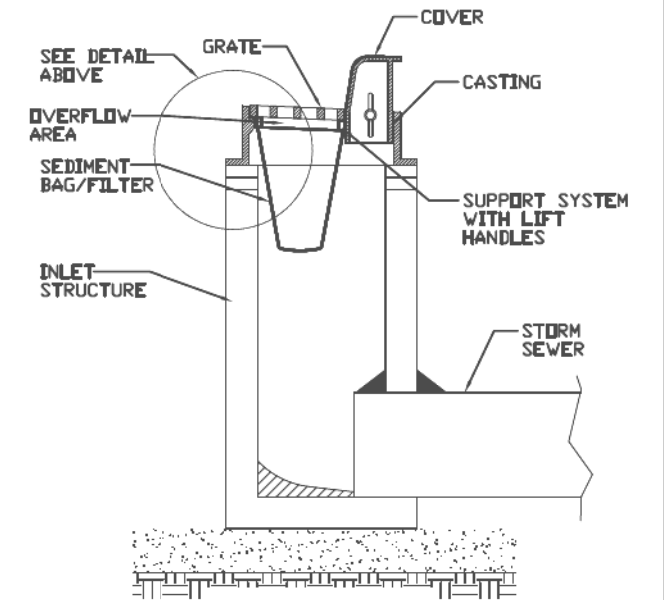
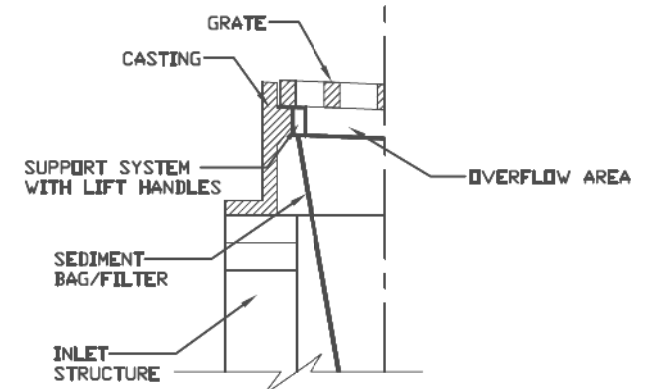
EROSION CONTROL BLANKET - TURF REINFORCEMENT MAT (TRM)



*Note:
1. For sandy soil conditions, staple or push pin shall be a minimum 8 inches.

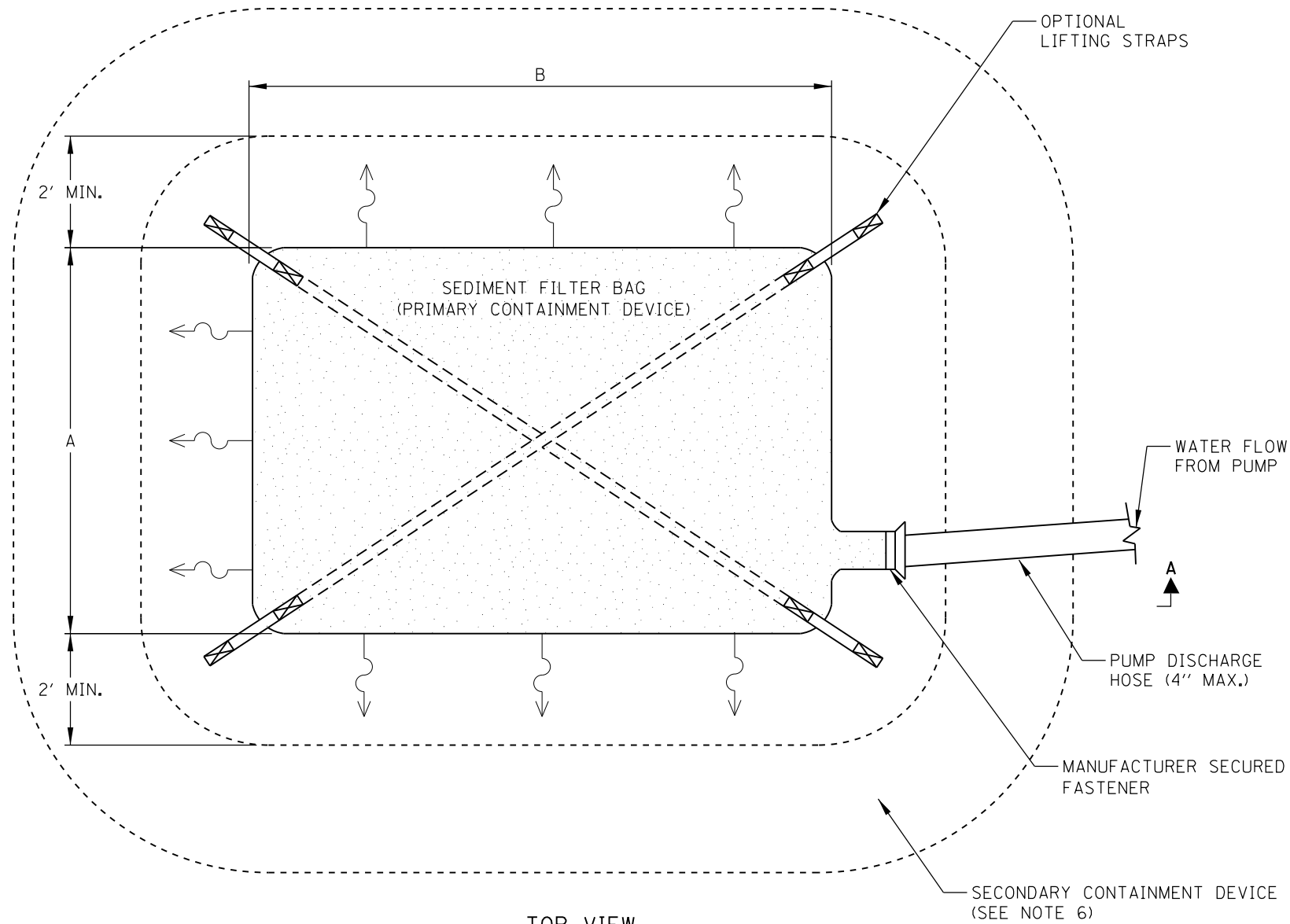
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Project _____	IUM-531
Designed _____ Date _____	SHEET 1 OF 1
Checked _____ Date _____	DATE 02-22-11
Approved _____ Date _____	

INLET PROTECTION - PAVED AREAS DROP-IN PROTECTION



REFERENCE	STANDARD DWG. NO.
Project _____	IUM-561D
Designed _____ Date _____	SHEET 1 OF 1
Checked _____ Date _____	DATE 01-11-11
Approved _____ Date _____	

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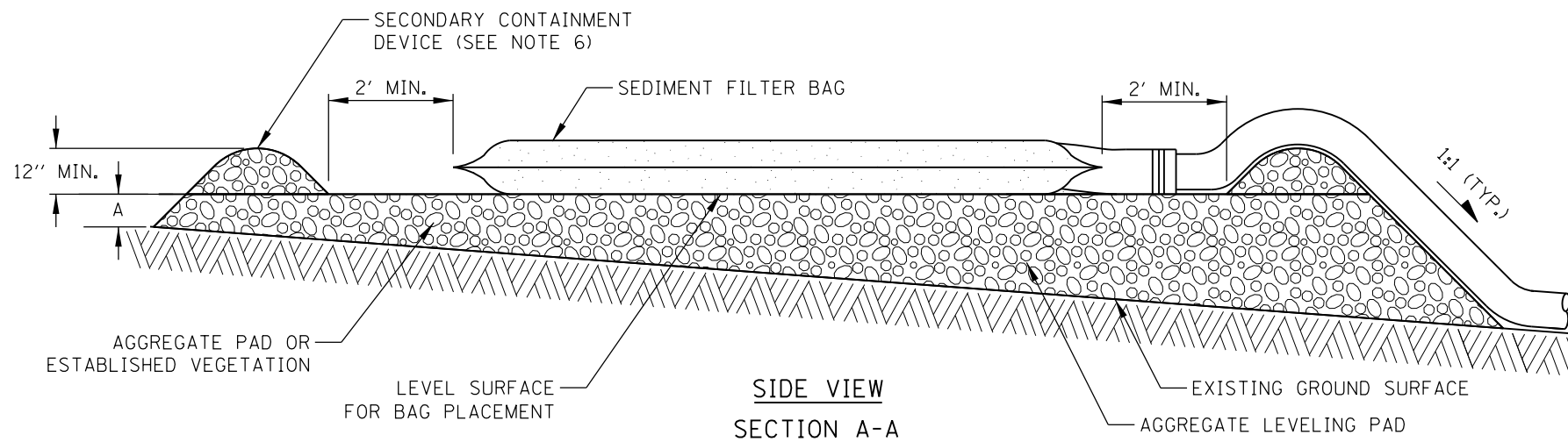


TOP VIEW

NOTES:

1. SEDIMENT FILTER BAGS TO BE CONSIDERED AN ALTERNATE FOR SITES WHERE SEDIMENT BASIN INSTALLATION IS PROBLEMATIC.
2. SEDIMENT FILTER BAGS TO BE SIZED BASED ON VOLUME OF WATER BEING PUMPED, QUANTITY AND TYPE OF SEDIMENT AND THE PERMITIVITY OF THE SPECIFIC BAG SIZE. THE MINIMUM BAG SIZE SHALL BE 10 FEET BY 15 FEET WITH A USABLE SURFACE AREA OF 300 SQUARE FEET.
3. MULTIPLE DISCHARGES INTO A SINGLE BAG ARE NOT PERMITTED.
4. SEDIMENT FILTER BAG SHALL BE ORIENTATED TO DIRECT FLOW AWAY FROM CONSTRUCTION AREA AND DISCHARGE FILTERED WATER INTO APPROVED RECEIVING AREA OR CONTAINMENT SYSTEM.
5. SEDIMENT FILTER BAG SHALL BE REPLACED WHEN IT BECOMES 1/2 FULL OF SEDIMENT OR WHEN THE SEDIMENT HAS REDUCED DISCHARGE FLOW RATE BELOW DESIGN REQUIREMENTS.
6. SECONDARY CONTAINMENT DEVICE SHALL BE COMPRISED OF AGGREGATE MATERIAL, TEMPORARY DITCH CHECK OR EQUIVALENT.
7. PLACE STRAPS, CROSS CHAINS, PALLETS OR OTHER LIFTING DEVICE UNDER THE SEDIMENT FILTER BAG WHEN REPLACEMENT IS ANTICIPATED.

DESIGN ELEMENTS		VALUES
AGGREGATE PAD AND SECONDARY CONTAINMENT DEVICE	GRADATION	1/2" TO 1-1/2" CA
AGGREGATE PAD DEPTH (MIN.)	A (INCH)	6



SIDE VIEW SECTION A-A

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PLOT SCALE =	DRAWN - GG	REVISED -
PLOT DATE = 10/26/2022	CHECKED - AM	REVISED -
	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

EROSION AND SEDIMENT CONTROL DETAILS
 104TH AVENUE SHARED-USE PATH

SCALE: 1"=50'

SHEET 9 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	32
			CONTRACT NO. 61H84	
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK	
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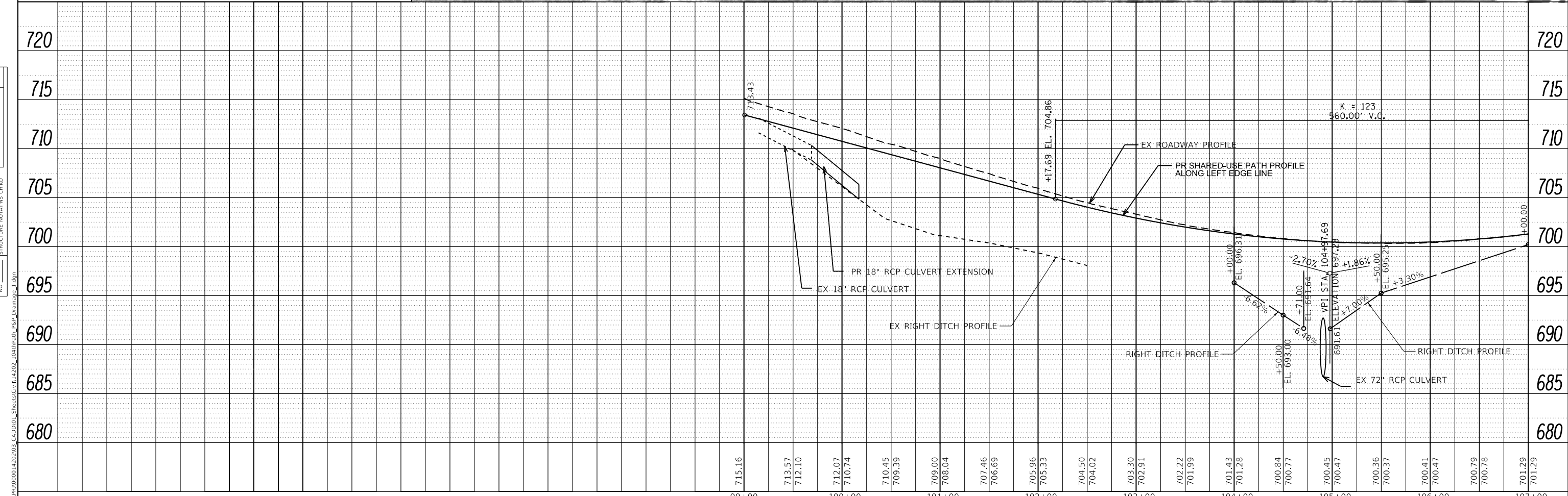
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	PLOTTED	
	GRADES CHECKED	
	NOTE BOOK	
	NO.	
	STRUCTURE NOTATIONS CHW/D	
	NO.	



DRAINAGE LEGEND

- EXISTING STORM SEWER
- - - - EXISTING SANITARY SEWER
- EXISTING PIPE UNDERDRAIN
- △ EXISTING HEADWALL
- EXISTING INLET
- EXISTING CATCH BASIN
- ⊙ EXISTING MANHOLE
- ⊙ PROPOSED MANHOLE
- PROPOSED STORM SEWER
- PROPOSED CATCH BASIN
- ▭ FLARED END SECTION
- ▲ HEADWALL FOR PIPE DRAINS
- STONE RIPRAP, CLASS A3

- ⑥ C.B. TYPE A (4" DIA.), TYPE 24 F&G
STA. 105+46.7, 23.8' RT
RIM = 699.96
INV (N) = 695.11
INV (E) = 695.11
- ⑦ C.B. TYPE A (4" DIA.), TYPE 24 F&G
STA. 105+80.1, 25.7' RT
RIM = 700.00
INV (N) = 695.51
INV (S) = 695.26
- ⑧ C.B. TYPE A (4" DIA.), TYPE 24 F&G
STA. 106+60.0, 30.5' RT
RIM = 700.49
INV (N) = 696.28
INV (S) = 696.28
- ⑩ REINFORCED CONCRETE FES, 72"
STA. 104+82.2, 53.3' RT
INV (E) = 686.72 V.I.F.
- ⑩A 6.8' - PIPE CULVERT 72"
@ 0.14%
TBF = 0.0 C.Y.
- ⑪ HEADWALL FOR PIPE DRAIN
STA. 105+55.0, 43.3' RT
INV (E) = 697.93 V.I.F.



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	DRAWN - GG	REVISED -
	CHECKED - AM	REVISED -
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VILLAGE OF ORLAND PARK

**DRAINAGE PLAN AND PROFILE
104TH AVENUE SHARED-USE PATH**

SCALE: 1"=50' SHEET 1 OF 3 SHEETS STA. 99+00 TO STA. 107+00

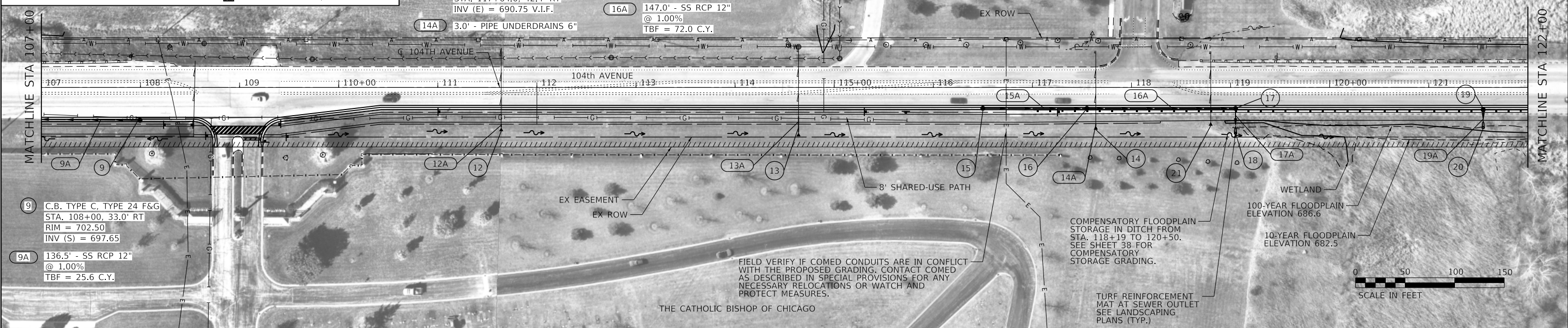
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				CONTRACT NO. 61H84
				ILLINOIS FED. AID PROJECT

DRAINAGE LEGEND

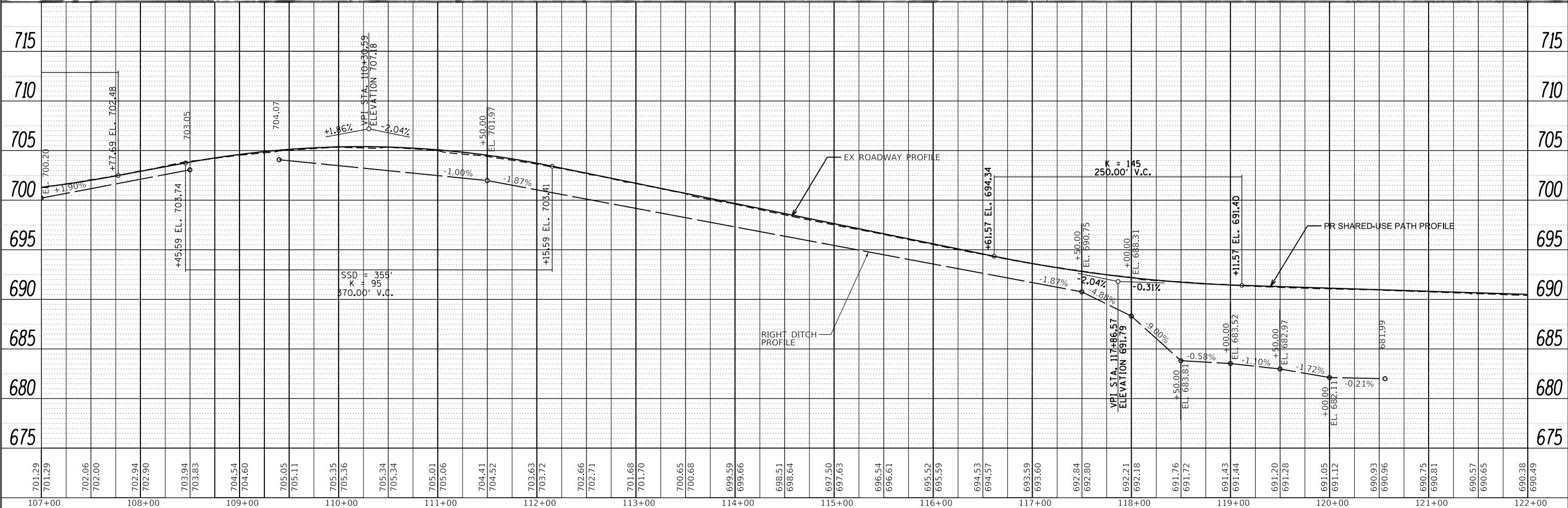
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- - - - - EXISTING SANITARY SEWER
- EXISTING PIPE UNDERDRAIN
- △ EXISTING HEADWALL
- EXISTING INLET
- EXISTING CATCH BASIN
- ⊙ EXISTING MANHOLE
- ⊙ PROPOSED MANHOLE
- PROPOSED STORM SEWER
- PROPOSED CATCH BASIN
- ▲ FLARED END SECTION
- ▲ HEADWALL FOR PIPE DRAINS
- STONE RIPRAP, CLASS A3

- 12 HEADWALL FOR PIPE DRAIN STA. 111+64.0, 44.1' RT INV (E) = 701.97 V.I.F.
- 13 HEADWALL FOR PIPE DRAIN STA. 114+64.0, 43.4' RT INV (E) 696.30 V.I.F.
- 14 HEADWALL FOR PIPE DRAIN STA. 117+64.0, 42.4' RT INV (E) = 690.75 V.I.F.
- 15 C.B. TYPE C, TYPE 24 F&G STA. 116+50.0, 21.0' RT RIM = 694.29 INV (N) = 686.18
- 16 C.B. TYPE A (4' DIA), TYPE 24 F&G STA. 117+55.0, 20.0' RT RIM = 692.53 INV (N) = 685.16 INV (S) = 685.16
- 17 C.B. TYPE A (4' DIA), TYPE 24 F&G STA. 119+05.0, 20.0' RT RIM = 691.15 INV (S) = 683.69 INV (E) = 683.69
- 18 REINFORCED CONCRETE FES, 12" STA. 119+05.0, 46.1' RT INV (E) = 683.45
- 19 C.B. TYPE C, TYPE 24 F&G STA. 121+55.0, 21.0' RT RIM = 690.28 INV (E) = 686.58
- 20 REINFORCED CONCRETE FES, 12" STA. 121+55.0, 41.2' RT INV (E) = 686.40
- 21 HEADWALL FOR PIPE DRAIN STA. 118+80.0, 38.5' RT INV (E) = 688.67 V.I.F.
- 12A 3.0' - PIPE UNDERDRAINS 6"
- 13A 16.5' - PIPE UNDERDRAINS 6"
- 14A 3.0' - PIPE UNDERDRAINS 6"
- 15A 102.0' - SS RCP 12" @ 1.00% TBF = 53.5 C.Y.
- 16A 147.0' - SS RCP 12" @ 1.00% TBF = 72.0 C.Y.
- 17A 17.8' - SS RCP 12" @ 1.00% TBF = 9.8 C.Y.
- 19A 11.7' - SS RCP 12" @ 1.00% TBF = 2.9 C.Y.

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	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK	
	NO.	
	FILE NAME	
	NO.	



PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	NOTE BOOK	
	NO.	
	STRUCTURE NOTATION	
	NO.	



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	DRAWN - GG	REVISED -
	CHECKED - AM	REVISED -
	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

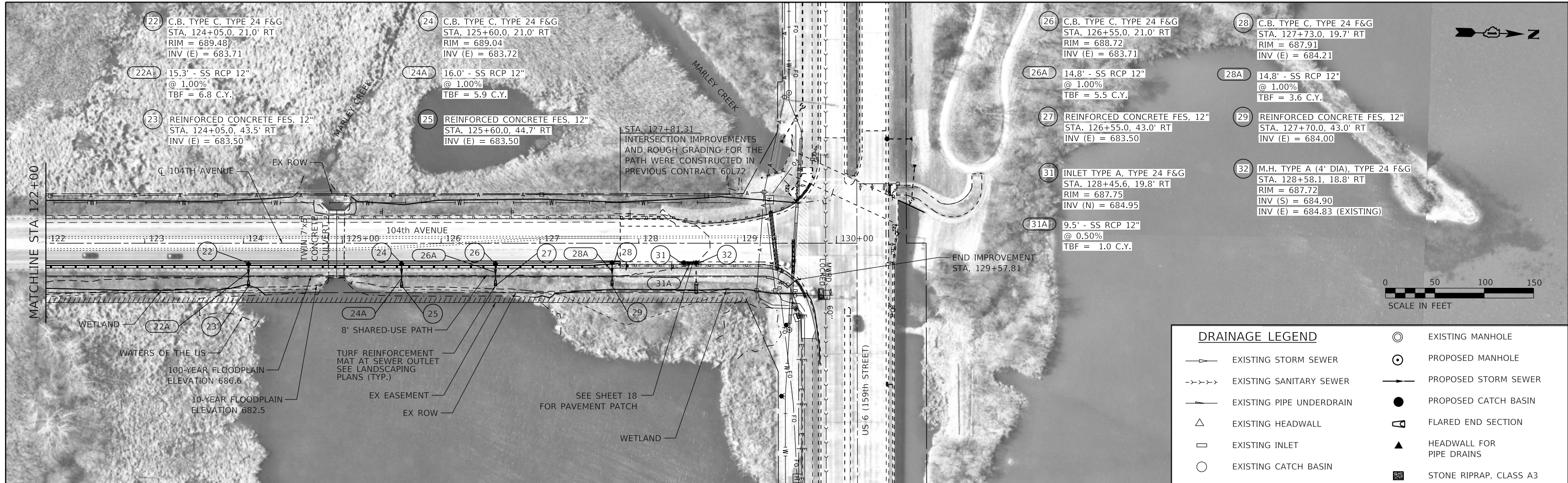
**DRAINAGE PLAN AND PROFILE
104TH AVENUE SHARED-USE PATH**

SCALE: 1"=50' SHEET 2 OF 3 SHEETS STA. 107+00 TO STA. 122+00

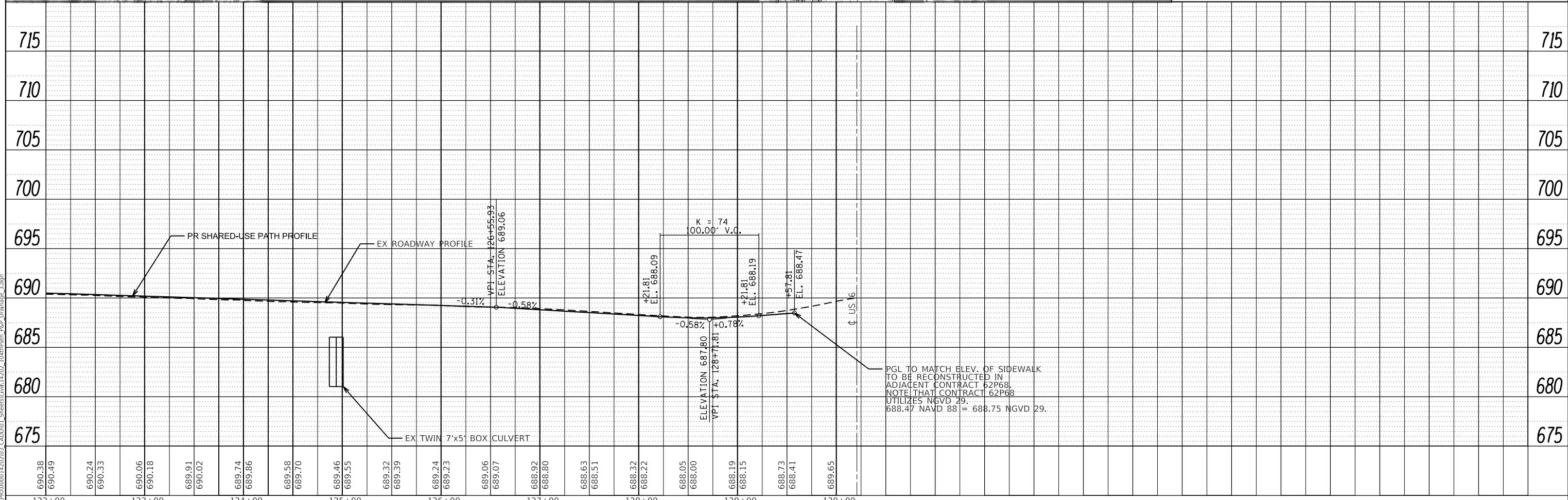
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				CONTRACT NO. 61H84
				ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	NO. _____	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	NO. _____	
	FILE NAME	



DRAINAGE LEGEND	
	EXISTING STORM SEWER
	EXISTING SANITARY SEWER
	EXISTING PIPE UNDERDRAIN
	EXISTING HEADWALL
	EXISTING INLET
	EXISTING CATCH BASIN
	EXISTING MANHOLE
	PROPOSED MANHOLE
	PROPOSED STORM SEWER
	PROPOSED CATCH BASIN
	FLARED END SECTION
	HEADWALL FOR PIPE DRAINS
	STONE RIPRAP, CLASS A3



690.38	690.49	690.24	690.33	690.06	690.18	689.91	690.02	689.74	689.86	689.58	689.70	689.46	689.55	689.32	689.39	689.24	689.23	689.06	689.07	688.92	688.80	688.63	688.51	688.32	688.22	688.05	688.00	688.19	688.15	688.73	688.41	689.65	
122+00	123+00	124+00	125+00	126+00	127+00	128+00	129+00	130+00																									

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PLOT SCALE =	DRAWN - GG	REVISED -
DATE = 10/26/2022	CHECKED - AM	REVISED -
	DATE = 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

DRAINAGE PLAN AND PROFILE
104TH AVENUE SHARED-USE PATH

SCALE: 1"=50' SHEET 3 OF 3 SHEETS STA. 122+00 TO STA. 130+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	35
CONTRACT NO. 61H84			ILLINOIS FED. AID PROJECT	



MATCHLINE STA 122+00

STA. 127+81.31
INTERSECTION IMPROVEMENTS
AND ROUGH GRADING FOR THE
PATH WERE CONSTRUCTED IN
PREVIOUS CONTRACT 60L72

USE SEEDING CLASS 4B
BELOW ELEVATION 682.5

8' SHARED-USE PATH
EX EASEMENT
EX ROW






USE SEEDING CLASS 4B
BELOW ELEVATION 682.5

END IMPROVEMENT
STA. 129+57.81

THE PRE-GRADED SIDE SLOPES FROM
STA. 127+81.3 TO STA 129+51.2 WERE
VEGETATED WITH CLASS 4 SEEDING IN
THE PREVIOUS US 6 CONTRACT 60L72.
RESEED ANY DISTURBED AREA DUE TO
CONSTRUCTION OF THE PATH.



LANDSCAPING LEGEND

-  SEEDING, CLASS 1A (25000110)
WITH EROSION CONTROL BLANKET (SPECIAL) (X2511630)
-  SEEDING, CLASS 4 (25000310)
WITH TURF REINFORCEMENT MAT (25100900)
-  SEEDING, CLASS 4A (25000312)
WITH EROSION CONTROL BLANKET (SPECIAL) (X2511630)
-  SEEDING, CLASS 4B (25000314)
WITH TURF REINFORCEMENT MAT (25100900)
-  HEAVY DUTY EROSION CONTROL
BLANKET (SPECIAL) (X2510635)

NOTES

1. 6" OF TOPSOIL SHALL BE PLACED IN ALL
LANDSCAPED AREAS, UNLESS OTHERWISE
NOTED ON THE PLANS. THIS WORK SHALL
BE PAID FOR AS TOPSOIL EXCAVATION
AND PLACEMENT.
2. SEE DETAIL SHEET 42 FOR
REINFORCED SOIL SLOPE SYSTEM
3. NITROGEN AND POTASSIUM FERTILIZERS
SHALL BE APPLIED AT A RATE OF 90 LBS/ACRE
FOR SEEDING, CLASS 1A ONLY. PHOSPHORUS
FERTILIZER SHALL NOT BE USED.

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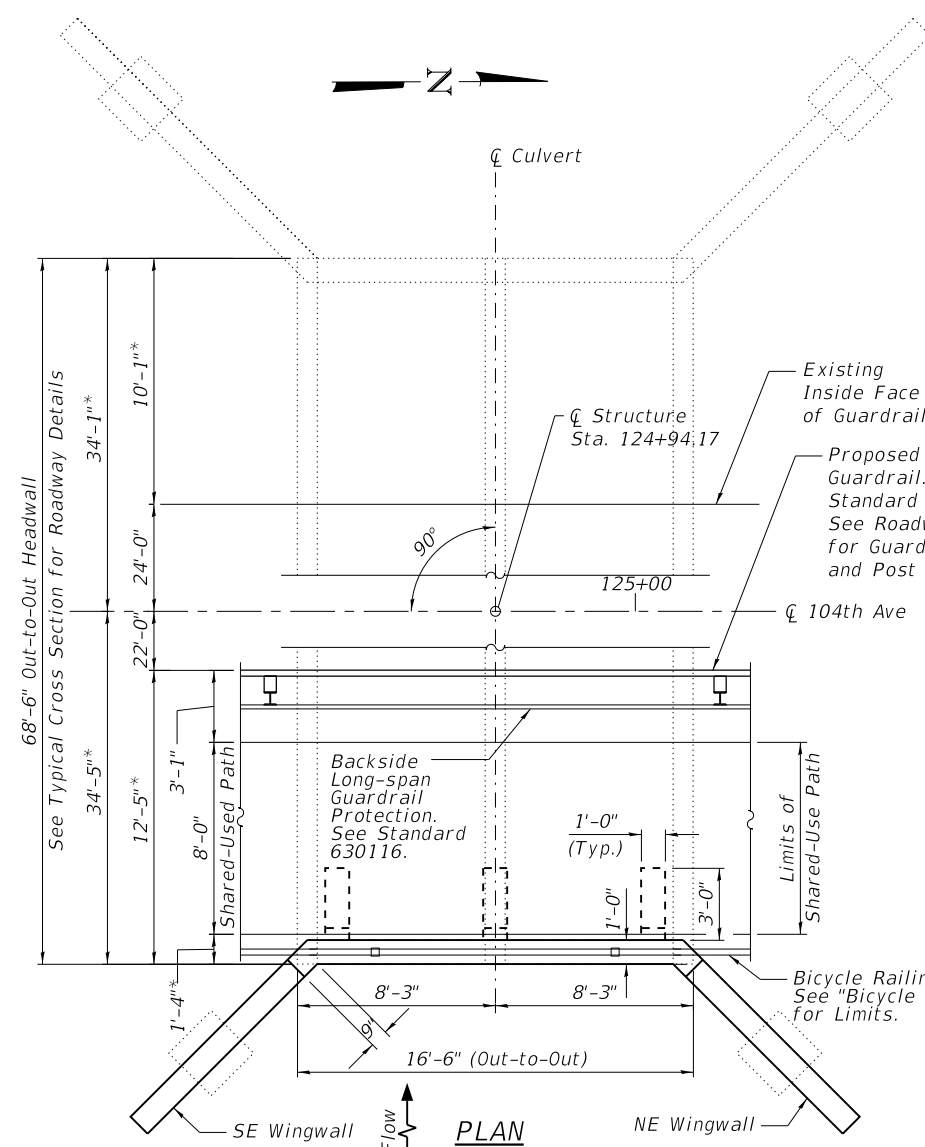
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VILLAGE OF ORLAND PARK

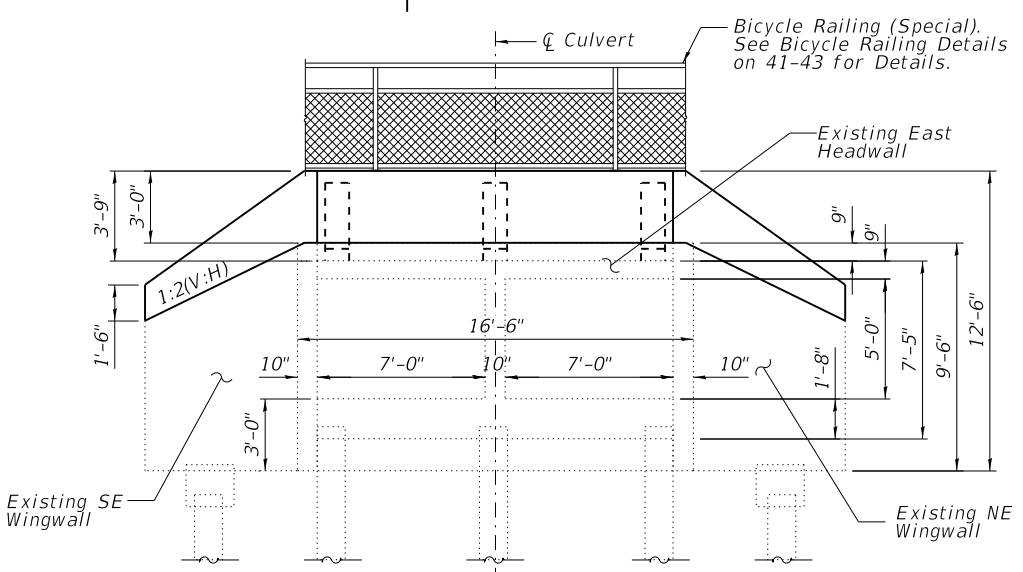
**LANDSCAPING PLANS
104TH AVENUE SHARED-USE PATH**

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. 122+00 TO STA. 130+00

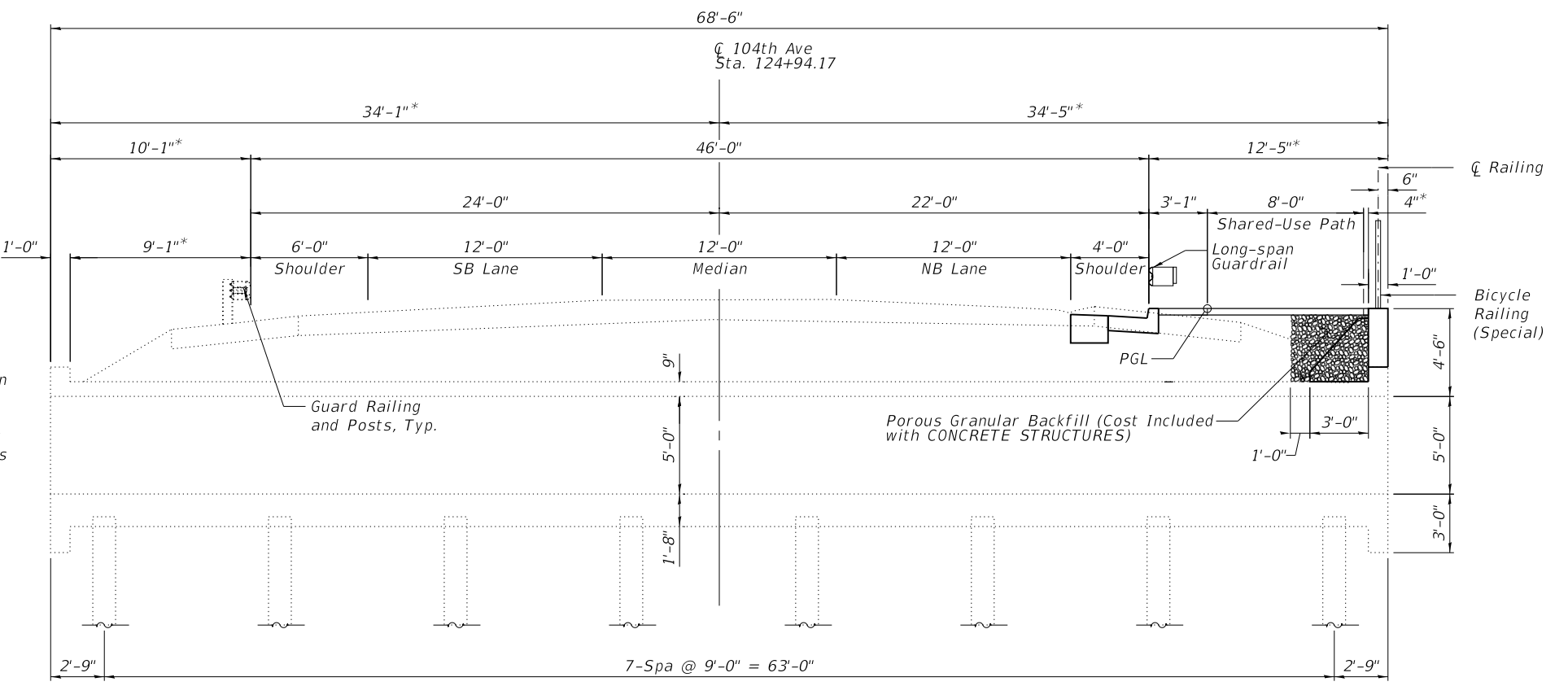
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2696	15-00077-00-BT	COOK	86	37
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



PLAN

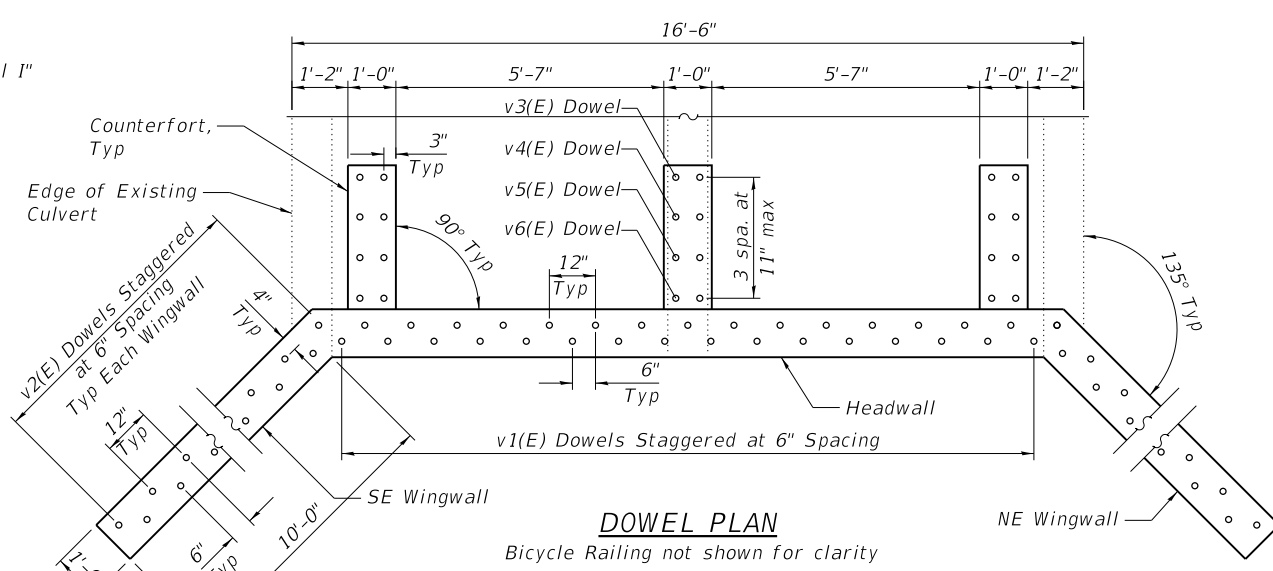


ELEVATION



TYPICAL CROSS SECTION
(Looking North)

*Verify In Field

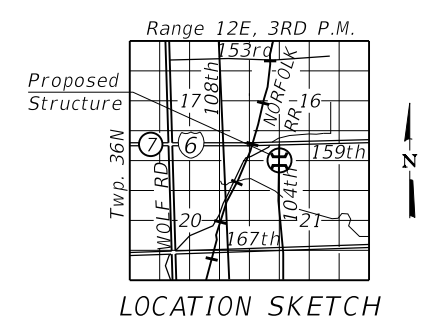


DOWEL PLAN

Bicycle Railing not shown for clarity

DOWEL EMBEDMENT

Size	Location	Bar	Embedment
#6	Headwall	v1(E)	9"
#6	Wingwall	v2(E)	15"
#6	Counterfort	v3(E)	7"
#6	Counterfort	v4(E)	7"
#6	Counterfort	v5(E)	7"
#6	Counterfort	v6(E)	7"



LOCATION SKETCH

LOADING HS20-44
Allow 50#/sq. ft. for future wearing surface
DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES
FIELD UNITS

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

GENERAL PLAN & ELEVATION
104TH AVENUE OVER MARLEY CREEK
SEC. 15-00077-00-BT
COOK COUNTY
STATION 124+94.17

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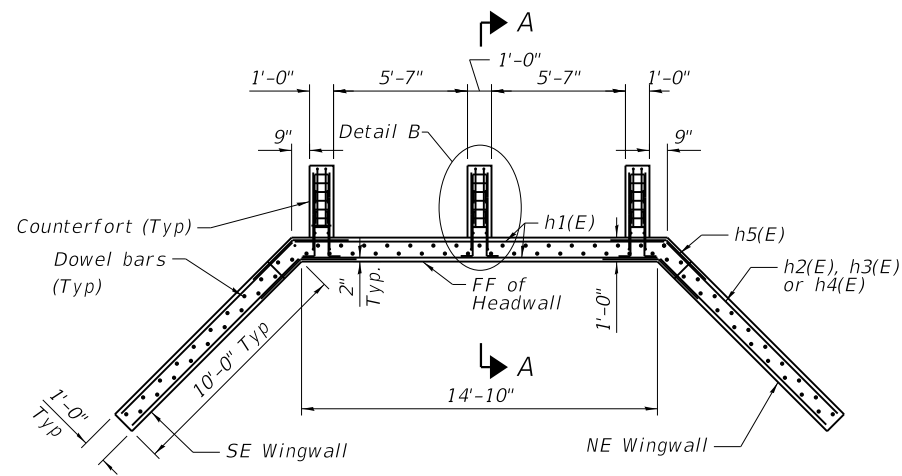
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	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

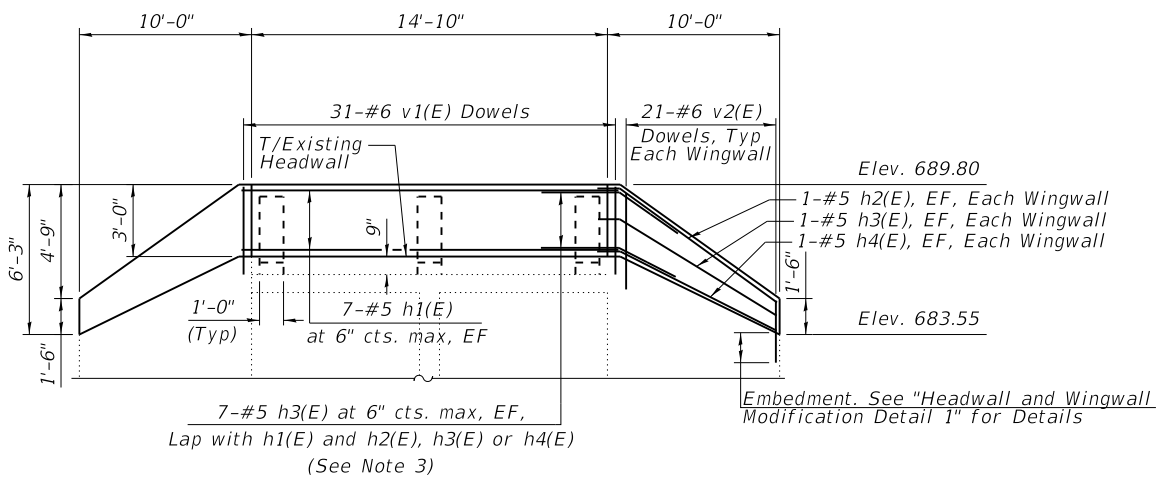
HEADWALL AND WINGWALL MODIFICATION DETAIL
104TH AVENUE BOX CULVERT AT STA 124+94.17

SCALE: N.T.S. SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	39
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

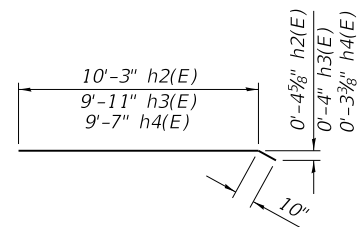


PLAN
Bicycle Railing not shown for clarity

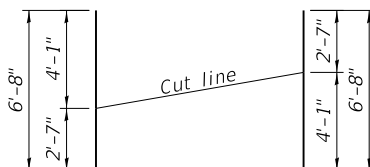


ELEVATION

Counterfort Reinforcement, Bicycle Railing not shown for clarity (See Note 7)

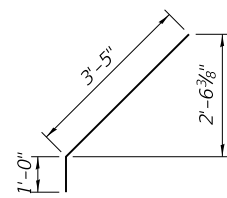


h2(E), h3(E), h4(E) bars

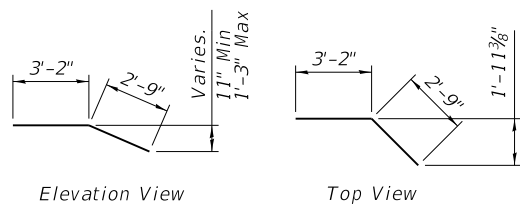


v2(E) bars

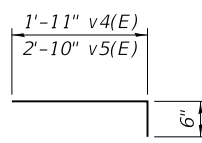
Order bars full length. Cut as shown and use remainder bars on opposite wingwall



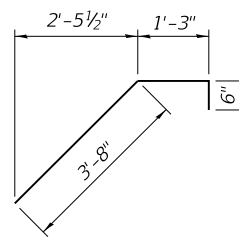
v3(E) bars



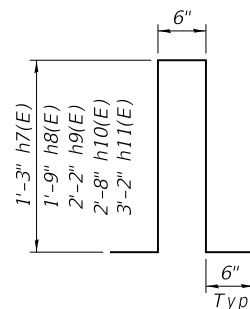
h5(E) bars



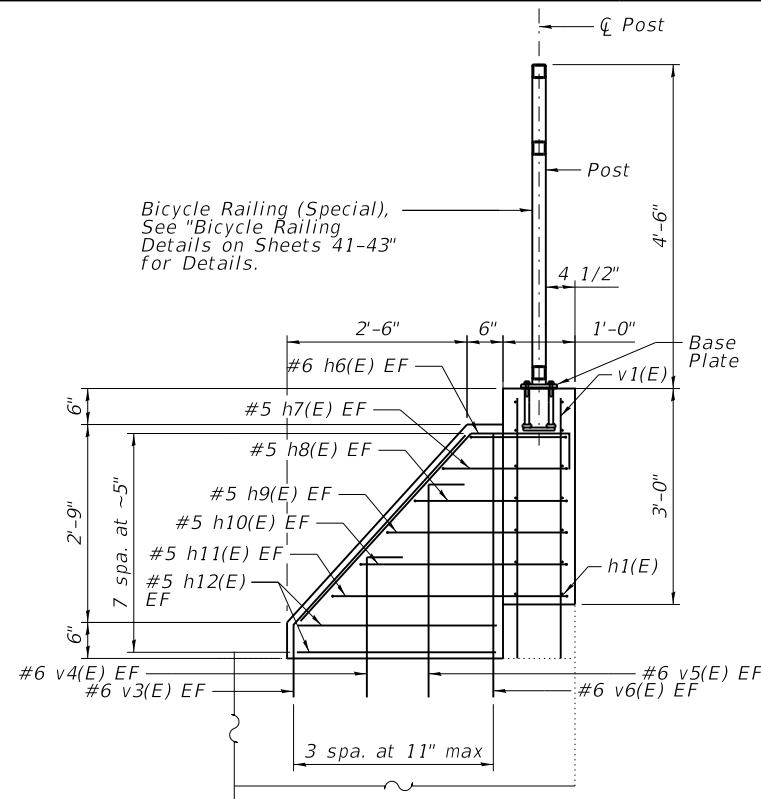
v4(E), v5(E) bars



h6(E) bars

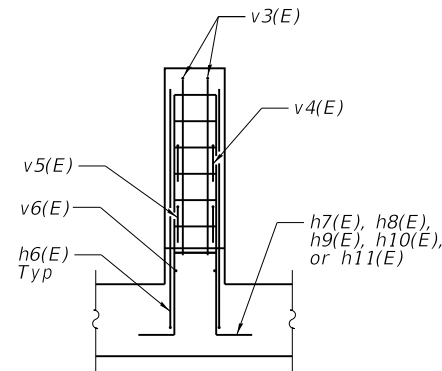


h7(E), h8(E), h9(E), h10(E), h11(E) bars



SECTION A-A

Typical at Each Counterfort, 3 Total



DETAIL B

Typical at Each Counterfort, 3 Total

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h1(E)	14	#5	14'-10"	
h2(E)	4	#5	11'-1"	
h3(E)	4	#5	10'-9"	
h4(E)	4	#5	10'-5"	
h5(E)	28	#5	5'-11"	
h6(E)	6	#6	5'-5"	
h7(E)	6	#5	4'-0"	
h8(E)	6	#5	5'-0"	
h9(E)	6	#5	5'-11"	
h10(E)	6	#5	6'-10"	
h11(E)	6	#5	7'-10"	
h12(E)	12	#5	2'-10"	
v1(E)	31	#6	3'-7"	
v2(E)	21	#6	6'-8"	
v3(E)	6	#6	4'-5"	
v4(E)	6	#6	2'-5"	
v5(E)	6	#6	3'-4"	
v6(E)	6	#6	3'-4"	
Concrete Structures		CU YD	5	
Reinforcement Bars, Epoxy Coated		POUND	1,293	
Protective Coat		SQ YD	15	

Notes

1. Drill and epoxy grout into existing culvert according to Article 584 of the Standard Specifications and Manufacturer Specifications. Cost included in REINFORCEMENT BARS, EPOXY COATED. Contractor shall locate existing reinforcement prior to drilling and adjust reinforcement spacing to avoid existing reinforcement. Dowel depth provided on Sheet 39.
2. Apply Hilti HIT-ICE adhesive or better with deformed reinforcing bars for all dowel bars.
3. Field bend h2(E), h3(E) and h4(E) bars to match wingwall geometry if required.
4. Reinforcement bars designated (E) shall be epoxy coated.
5. Protective Coat shall be applied to the top and exposed outside vertical face of proposed wingwall and headwall addition.
6. The surface of existing concrete elements within the interface limits of the proposed modifications shall be roughened to an amplitude of 0.25".
7. Embed bicycle railing anchorage into headwall addition per Anchorage Assembly detail on Sheet 43.

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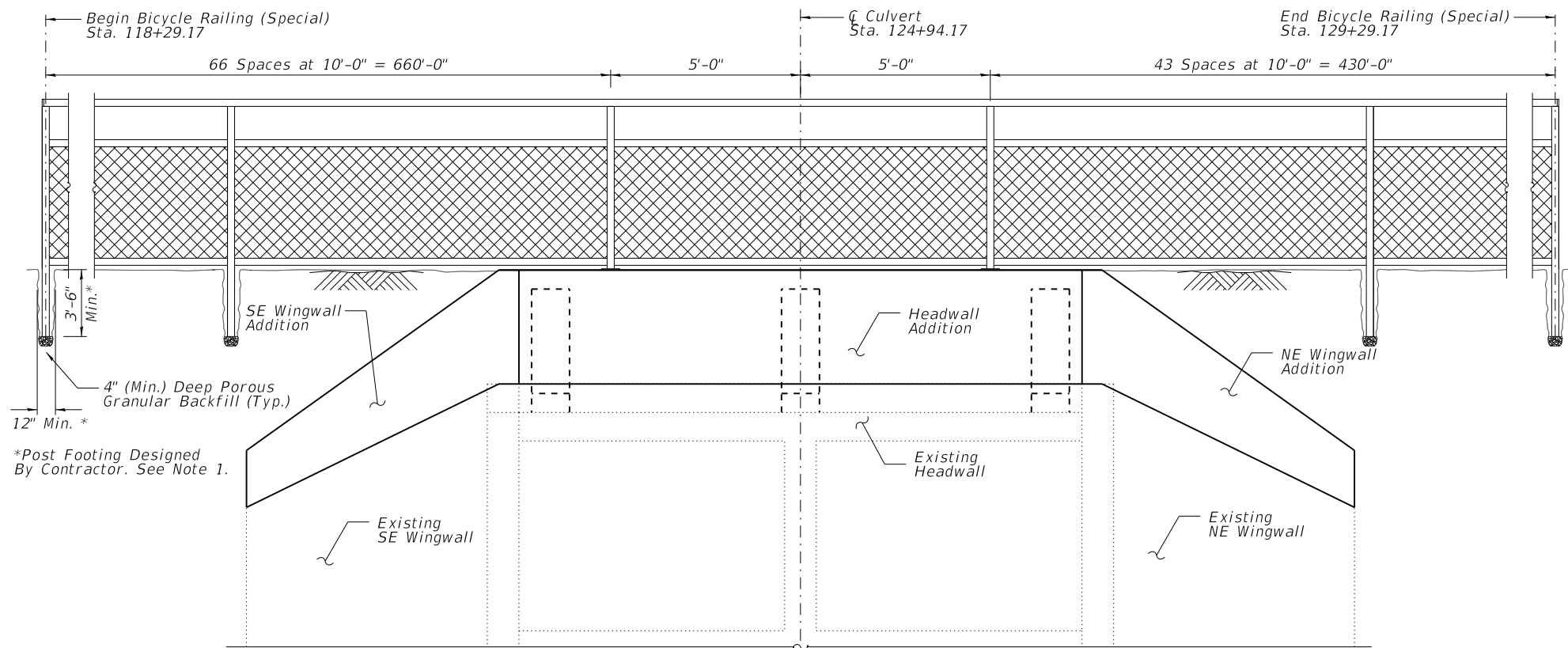
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	DRAWN - JM	REVISED -
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PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

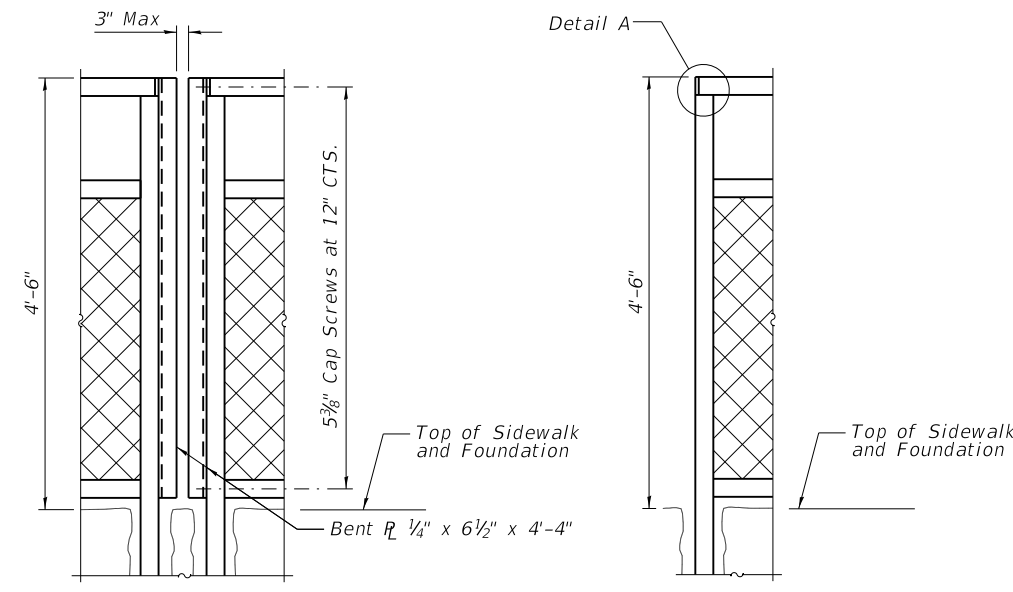
HEADWALL AND WINGWALL MODIFICATION DETAIL
104TH AVENUE BOX CULVERT AT STA 124+94.17

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	40
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



BICYCLE RAILING ELEVATION



RAILING AT JOINTS
Expansion Joint Detail See Note 9

RAILING ENDS

NOTES

1. See special provision BICYCLE RAILING (SPECIAL). Footing shown for information only. The cost of excavation, soil disposal, porous granular backfill and concrete is included in the unit price for BICYCLE RAILING (SPECIAL).
2. Railing shall be galvanized per IDOT Standard Specifications.
3. All dimensions are in feet and inches except as noted.
4. Shop drawings based on individual project plan view locations must be submitted to the resident engineer for approval.
5. Footing(s) calculations of Bicycle Railing (Special) away from the culvert shall be prepared by a Structural Engineer hired by the contractor in accordance with the design criteria as outlined in the project specifications and must be sealed by an Illinois Licensed Structural Engineer. The design calculations and details shall be submitted to the Engineer for approval.
6. Provide expansion joints of the bicycle railings at no more than 90' spacing.
7. For locations of Bicycle Railing (Special) see sheets 16, 17, 18 and 39.

BILL OF MATERIAL

ITEM	UNIT	TOTAL QUANTITY
Bicycle Railing (Special)	FOOT	1,260

See Sheet 16 Plan, Profile and Signing Plan for Bicycle Railing (Special) - Sta. 104+40 to Sta. 106+00 RT

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 312-372-3011 (P) / 312-372-5974 (F)

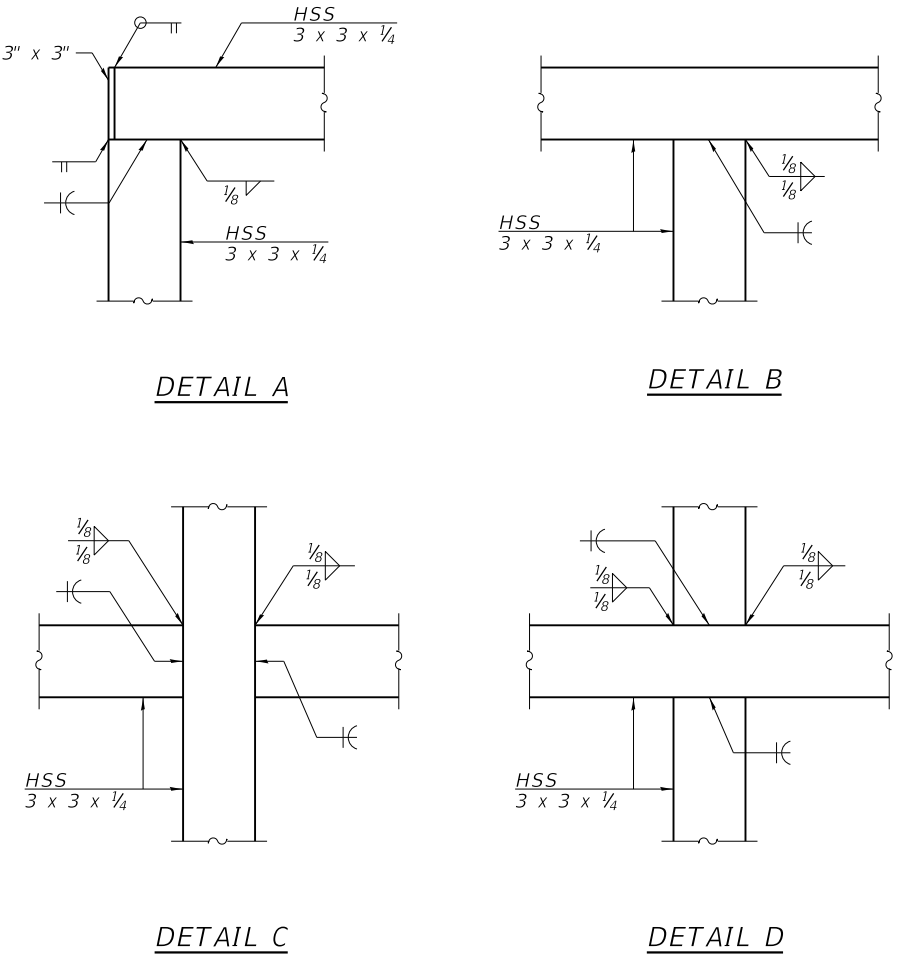
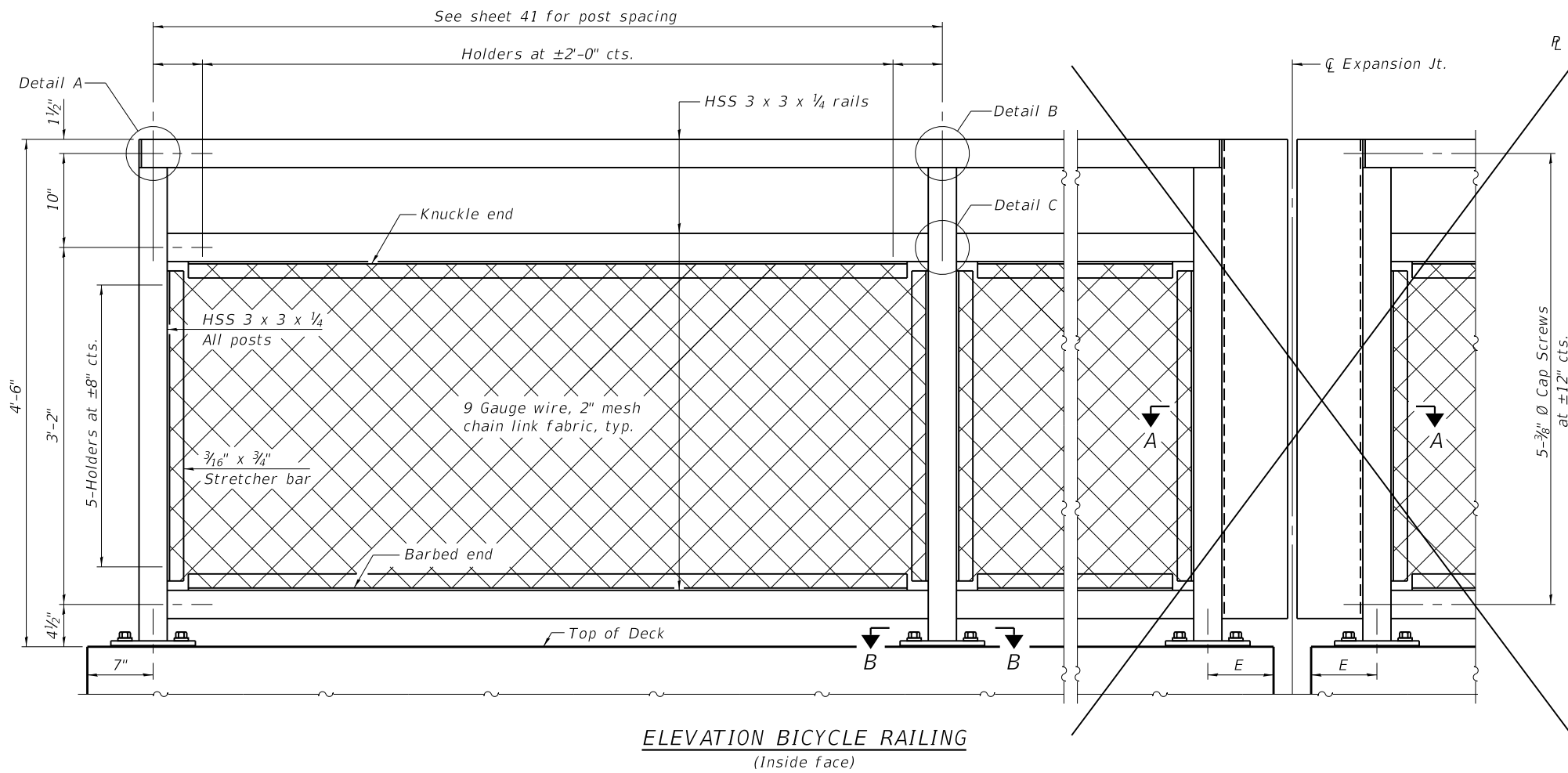
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	DRAWN - JM	REVISED -
PLOT SCALE =	CHECKED - RH	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

BICYCLE RAILING DETAIL I

SCALE: N.T.S. SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	41
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



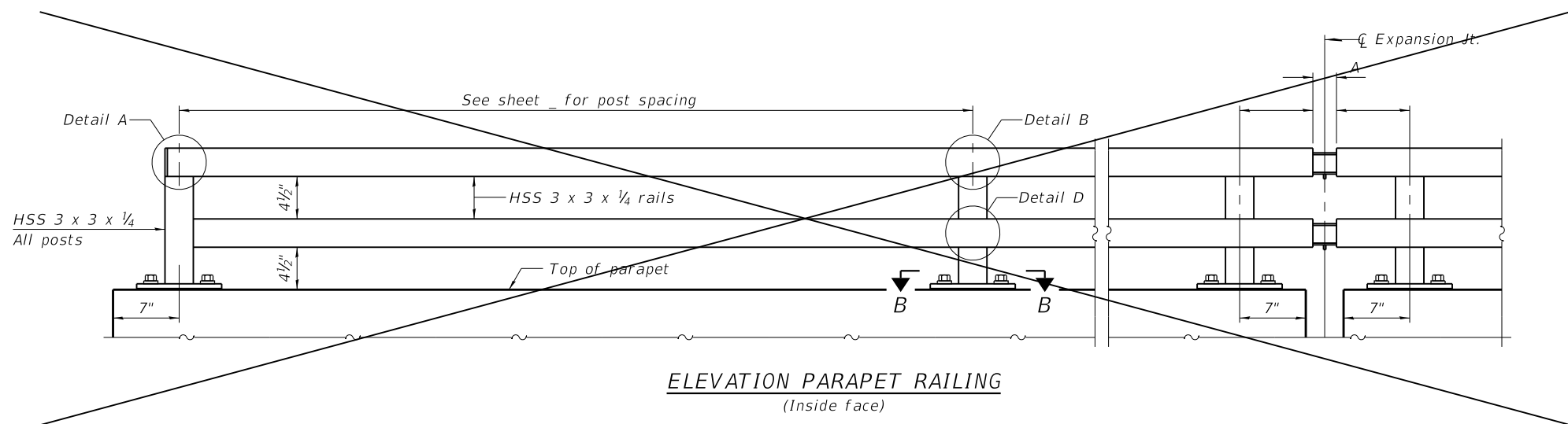
ELEVATION BICYCLE RAILING
 (Inside face)

DETAIL A

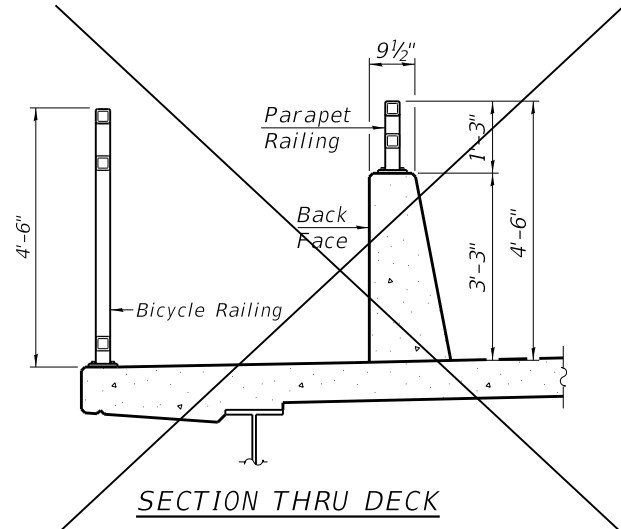
DETAIL B

DETAIL C

DETAIL D



ELEVATION PARAPET RAILING
 (Inside face)



SECTION THRU DECK

RAILING CRITERIA

MASH 2016 Test Level	4
Parapet Railing Weight (plf)	25
Bicycle Railing Weight (plf)	50
Max Post Spacing	10'-0"

R-29 9-1-2022

MODEL: Defaul...
 FILE NAME: I:\CHUPR\00001420203_CADD\01_Sheets\Civil\14202_04\Bicycle Railing Detail 2.dgn

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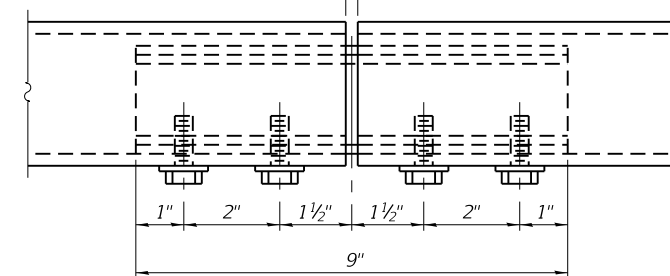
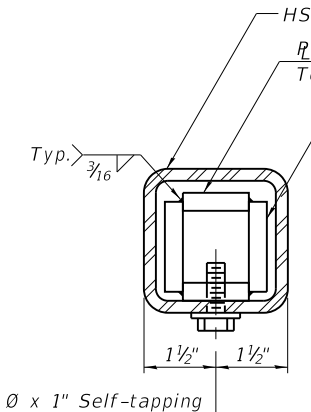
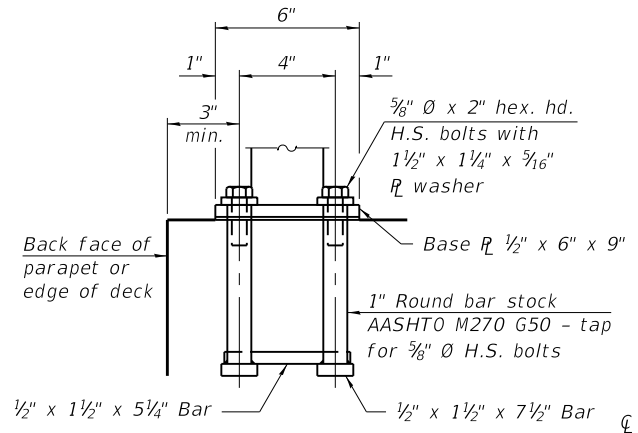
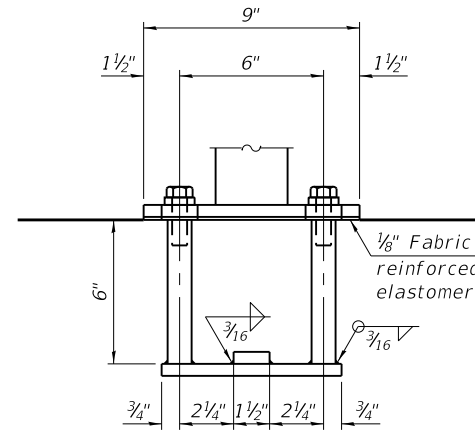
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PLOT SCALE =	DRAWN - JM	REVISED -
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	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

BICYCLE RAILING DETAIL II

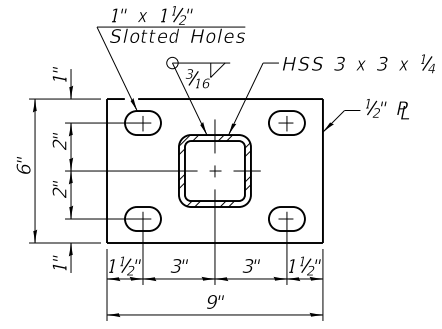
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	42
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

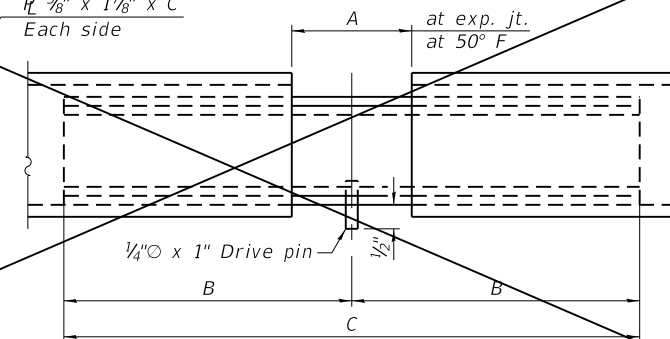
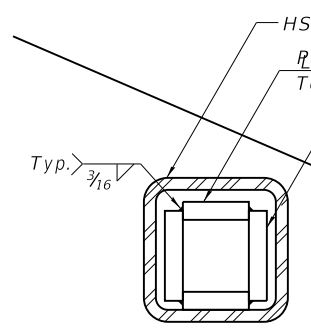


ANCHORAGE ASSEMBLY

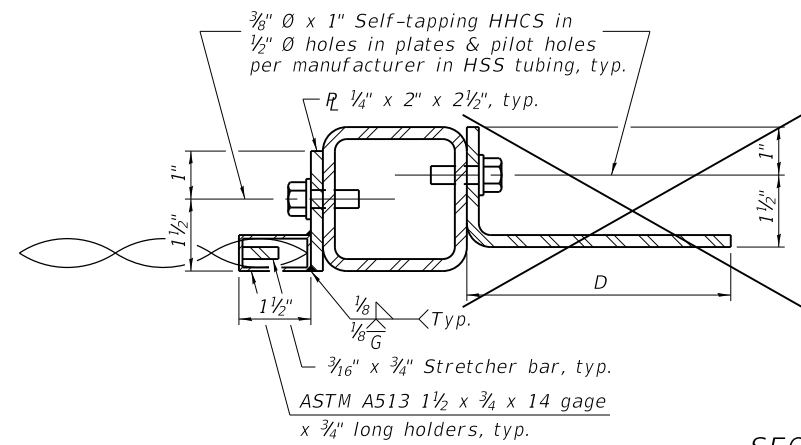
The Bicycle Railing fasteners for end posts near expansion joints may need to be installed prior to installing the bent plates. In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø fully threaded anchor rods with the same plate washers as specified above and heavy hex lock nuts according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



SECTION B-B



EXPANSION SPLICE



SECTION A-A

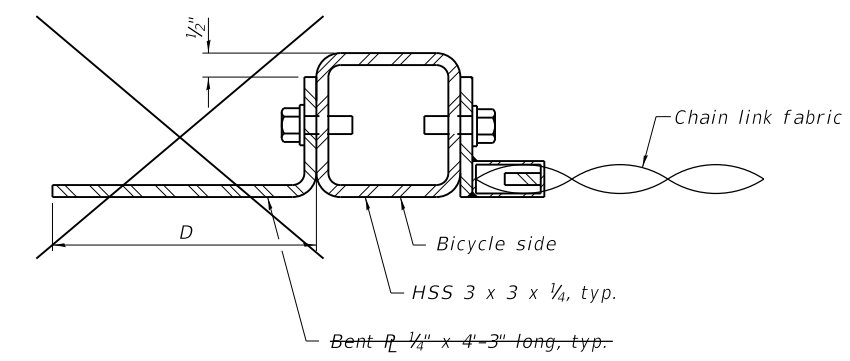


TABLE OF DIMENSIONS

Location	T	A	B	C	D	E
Over Strip Seal Jt.	≤ 4"	2 1/2"	1'-2"	2'-4"	7 1/4"	7"
Over Finger or Modular Jt.	≤ 9 1/2"	5 1/2"	1'-7 3/4"	3'-3 1/2"		
Over Finger or Modular Jt.	≤ 15"	8 1/4"	2'-1 1/4"	4'-2 1/2"		

T = ; total movement based on total temperature range from -20°F to 120°F along centerline of roadway at expansion joint.

BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	
Parapet Railing	Foot	

MODEL: Defaul... FILE NAME: R:\CHP\000001420203_CADD\01_Sheets\Civil\14202_10419Path Bicycle Railing Detail_3.dgn

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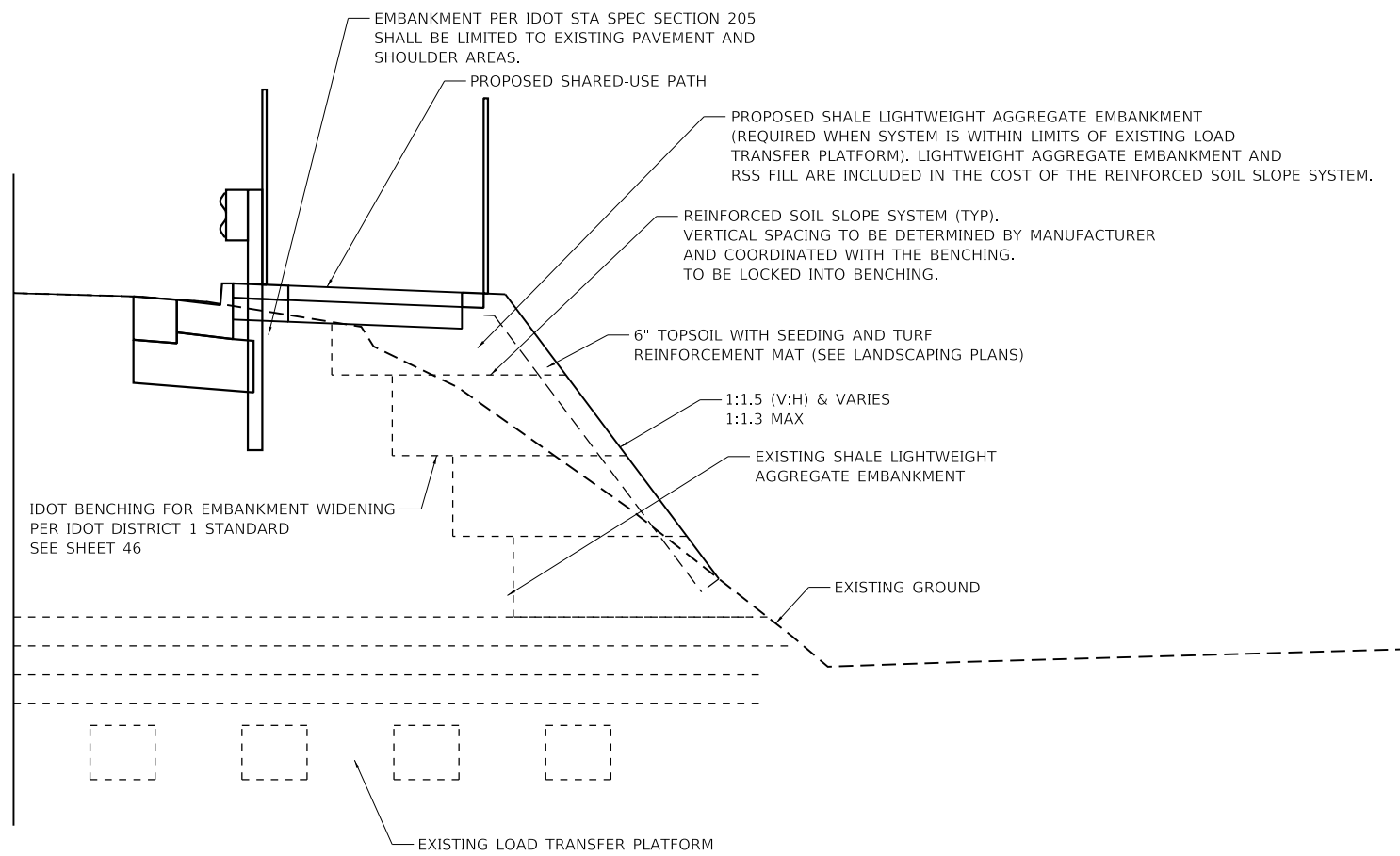
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PLOT SCALE =	DRAWN - JM	REvised -
PLOT DATE = 10/26/2022	CHECKED - RH	REvised -
	DATE - 4/6/2022	REvised -

VILLAGE OF ORLAND PARK

BICYCLE RAILING DETAIL III

SCALE: N.T.S. SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	43
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



REINFORCED SOIL SLOPE SYSTEM DETAIL

119+00.0 TO 124+86.8
125+02.4 TO 127+50.0

NOTES:

- 1. REFER TO THE SPECIAL PROVISION REINFORCED SOIL SLOPE SYSTEM FOR ADDITIONAL INFORMATION

BILL OF MATERIAL

ITEM	UNIT	TOTAL
REINFORCED SOIL SLOPE SYSTEM	SQ FT	9,842

MODEL: D:\p1\1\10000001\2022\03_CADD\01_Sheets\Civil\11202_104thPath_Construction_Detail_L.dgn

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312-372-3011 (P) / 312-372-5974 (F)

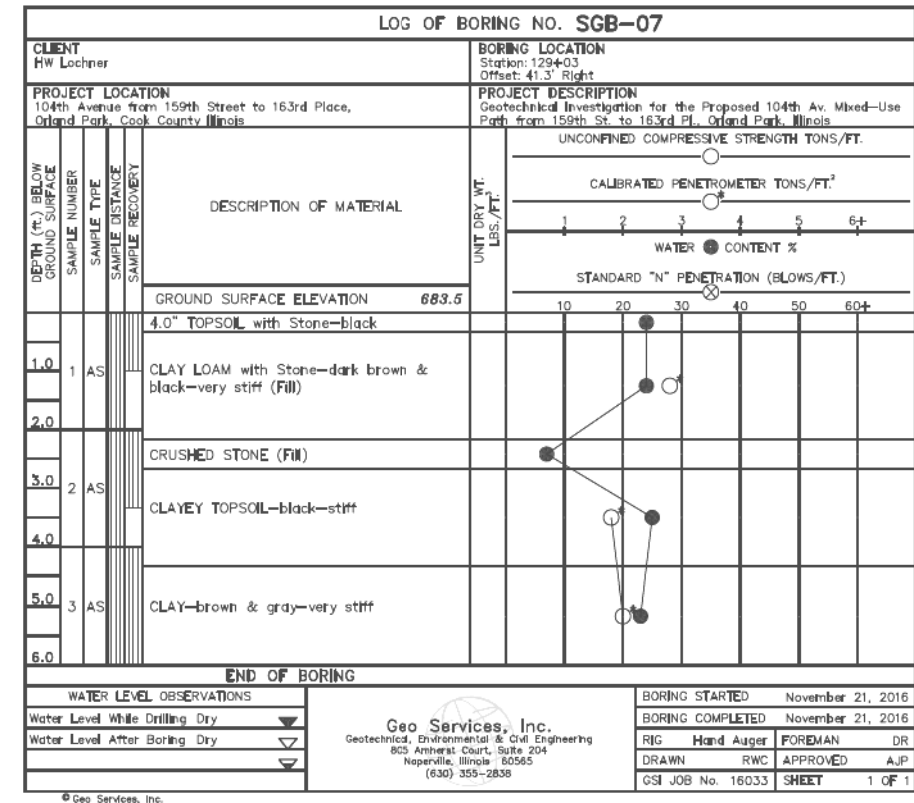
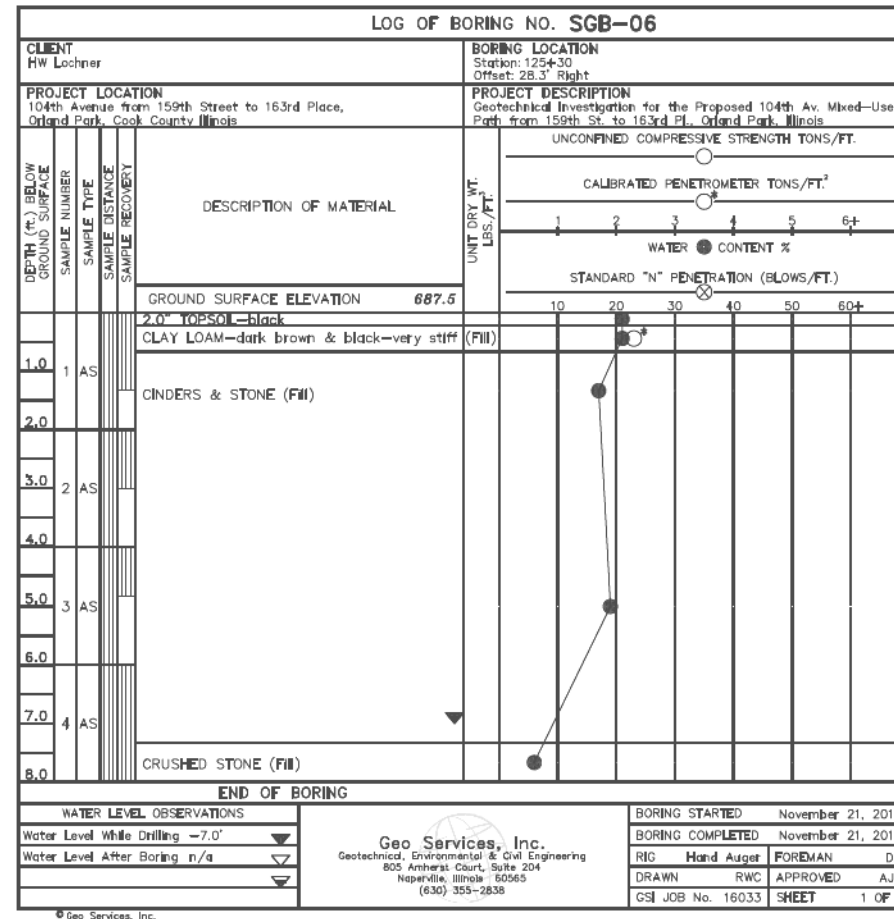
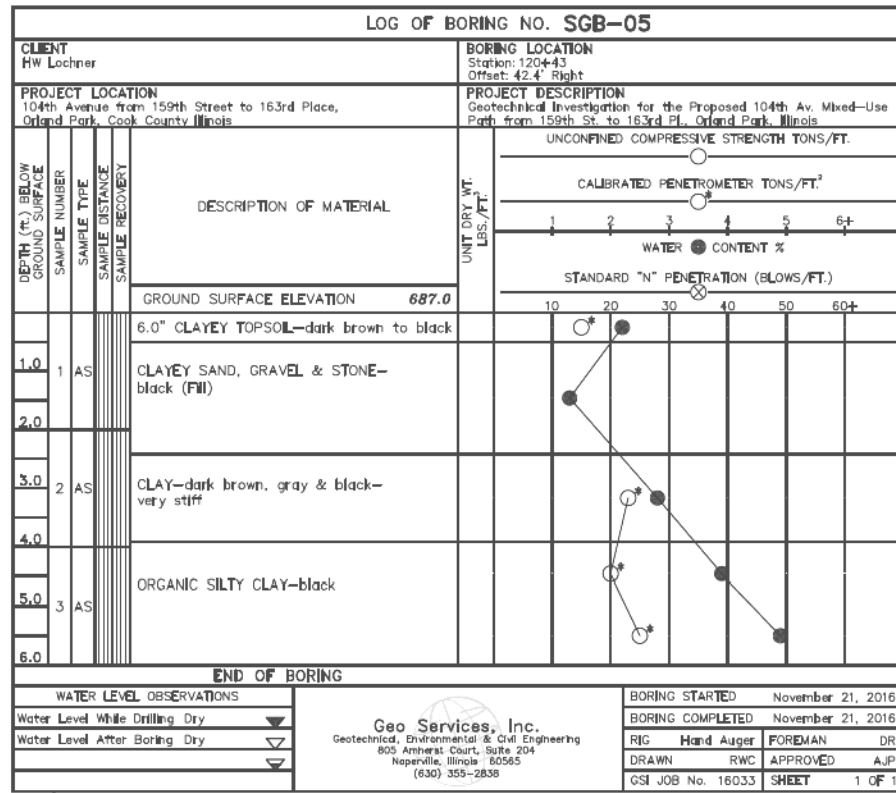
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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 10/26/2022	CHECKED -	REVISED -
	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

CONSTRUCTION DETAIL
104TH AVENUE SHARED-USE PATH

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	44
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



MODEL: Default
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CONSULTING ENGINEERS & PLANNERS
225 WEST WASHINGTON STREET 12TH FLOOR
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312-372-3011 (P) / 312-372-5974 (F)

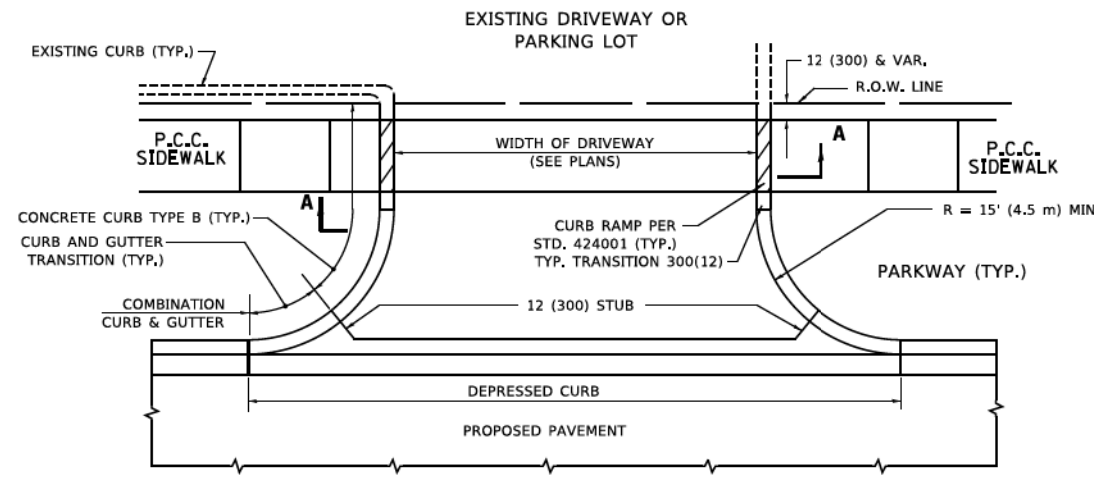
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VILLAGE OF ORLAND PARK

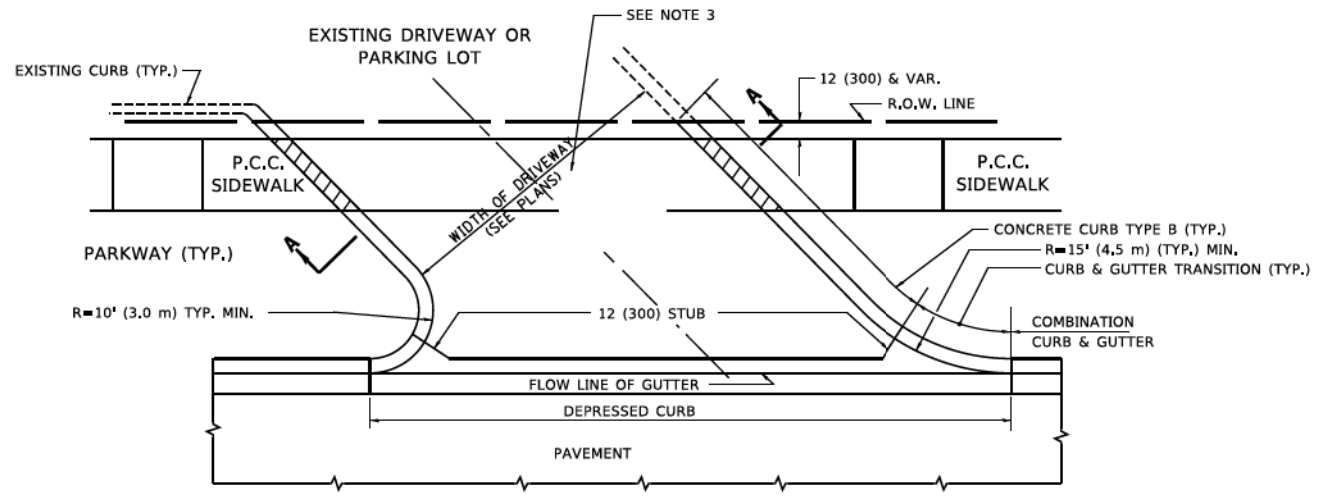
**SOIL BORING LOGS
104TH AVENUE SHARED-USE PATH**

SCALE: SHEET OF SHEETS STA. TO STA.

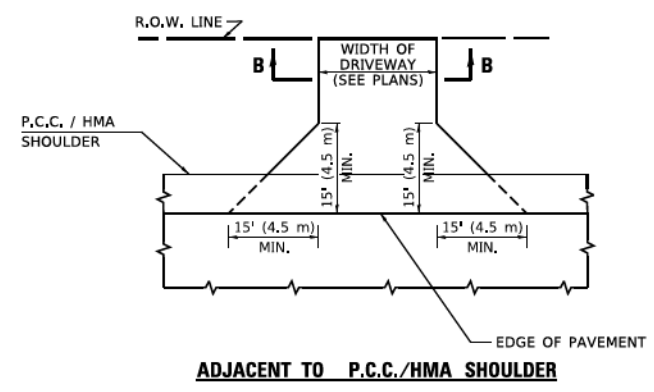
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CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



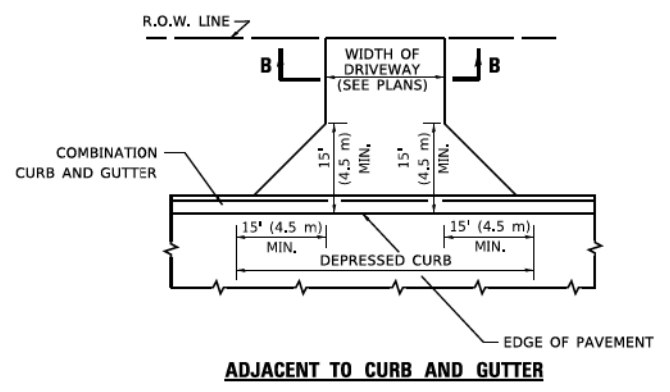
WITH CONCRETE CURB, TYPE B



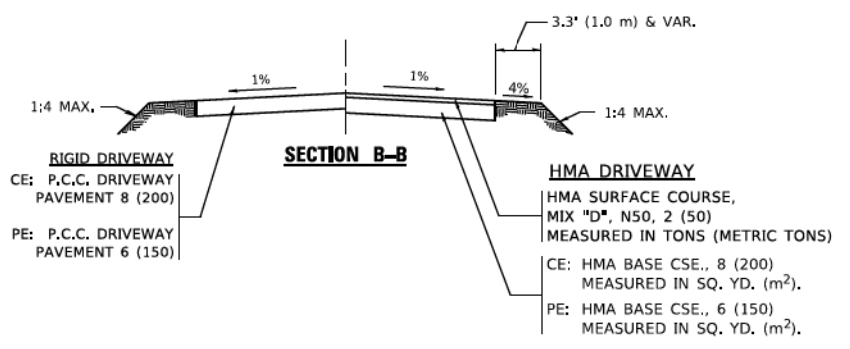
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C./HMA SHOULDER



ADJACENT TO CURB AND GUTTER



GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

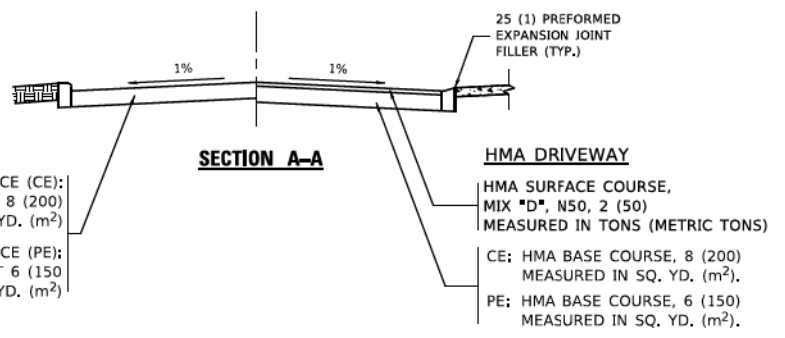
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.



MODEL: Detail
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PLOT SCALE	= 50.0000' / 1in.	DRAWN	-	REVISED	- R. BORO 01-01-07
PLOT DATE	= 3/27/2019	CHECKED	-	REVISED	- R. BORO 06-11-08
		DATE	- 11-04-95	REVISED	- R. BORO 09-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY DETAILS – DISTANCE BETWEEN R.O.W.
AND FACE OF CURB & EDGE OF SHOULDER ≥ 15'(4.5m)**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BD400-01 (BD-01)		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

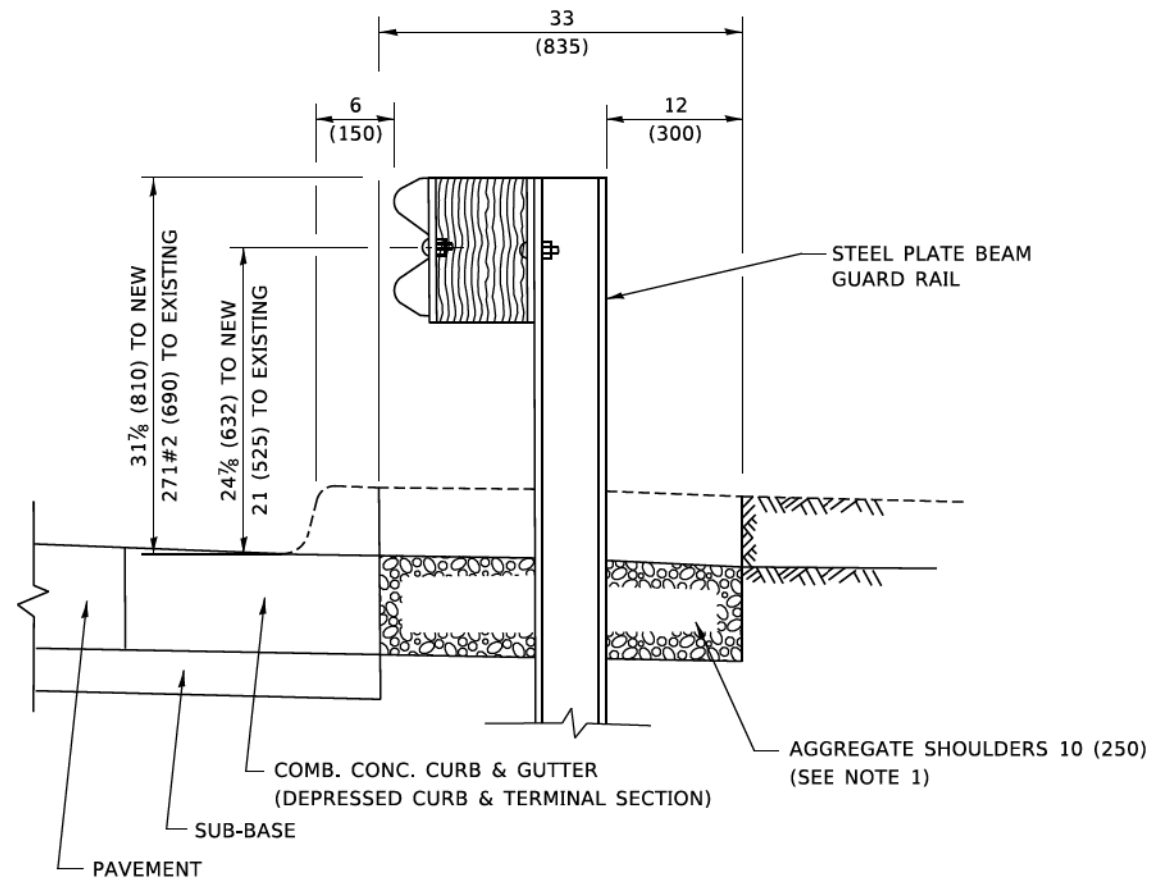
LOCHNER
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USER NAME	= GG	DESIGNED	-	REVISED	-
PLOT SCALE	=	DRAWN	-	REVISED	-
PLOT DATE	= 10/26/2022	CHECKED	-	REVISED	-
		DATE	- 4/6/2022	REVISED	-

VILLAGE OF ORLAND PARK

**IDOT DISTRICT 1 STANDARDS
104TH AVENUE SHARED-USE PATH**

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	46
		CONTRACT NO. 61H84		
ILLINOIS FED. AID PROJECT				



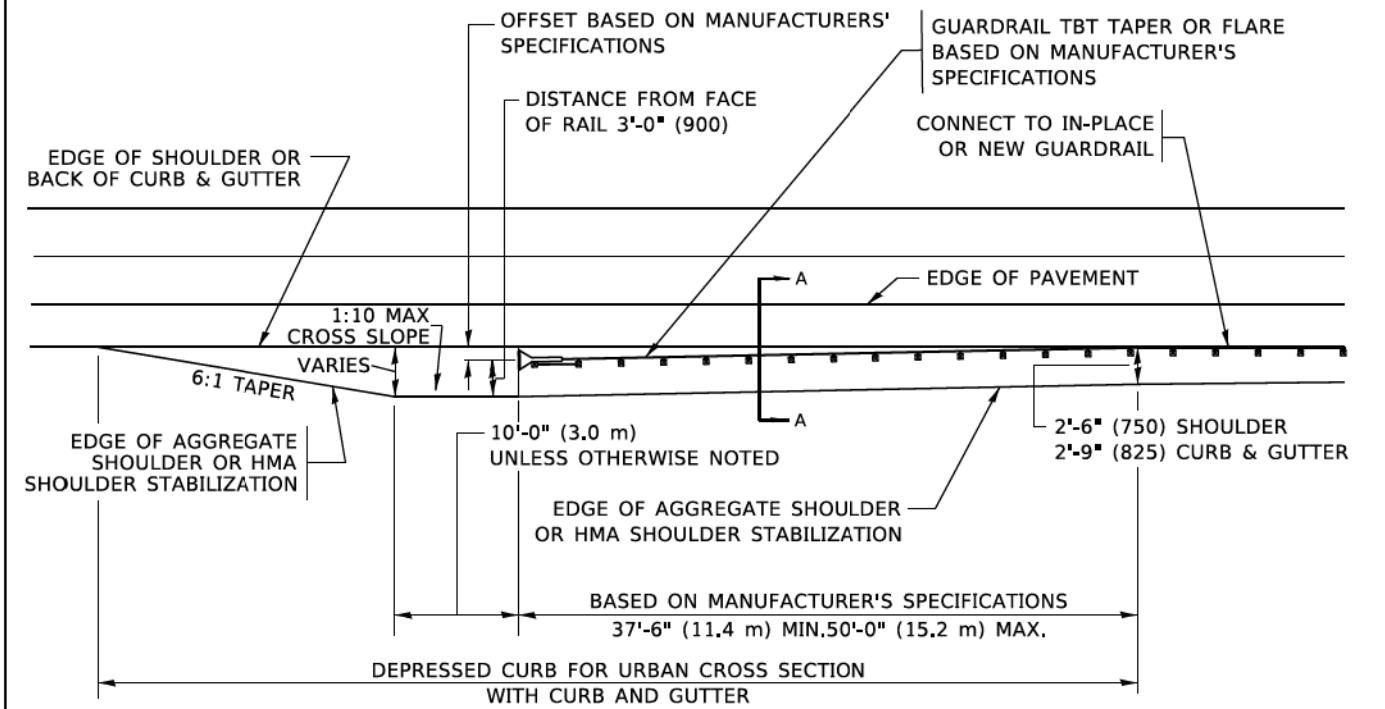
SECTION A-A

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.

USE HMA SHOULDER, 8" PER CCDOH REQUIREMENTS

**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.

USE HMA SHOULDER, 8" PER CCDOH REQUIREMENTS

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

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PLOT SCALE = 50,0000 ' / In.	DRAWN -	REVISED - R. BORO 09-14-2009
PLOT DATE = 3/27/2019	CHECKED -	REVISED - R. BORO 08-06-2012
	DATE - 09-22-90	REVISED - R. BORO 05-08-2015

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BD600-10 (BD 34)			
ILLINOIS FED. AID PROJECT			CONTRACT NO.	

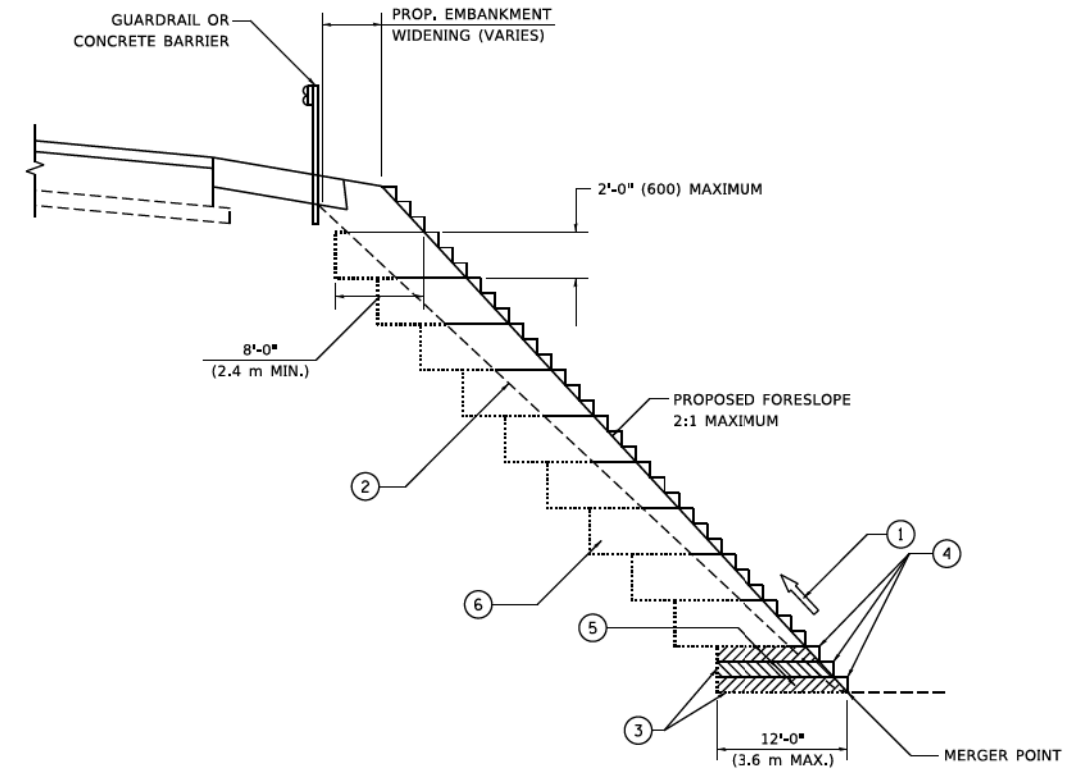
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CHICAGO, IL 60606
312-372-3011 (P) / 312-372-5974 (F)

USER NAME = GG	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 10/26/2022	CHECKED -	REVISED -
	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**IDOT DISTRICT 1 STANDARDS
104TH AVENUE SHARED-USE PATH**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	15-00077-00-BT	COOK	86	47
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61H84	



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

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

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

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FILE NAME: ...

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PLOT SCALE = 50.0000" / in.	CHECKED - S.E.B.	REVISED -
PLOT DATE = 3/27/2019	DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BENCHING DETAIL FOR EMBANKMENT WIDENING		
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BD-51			
ILLINOIS		FED. AID PROJECT		

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312-372-3011 (P) / 312-372-5974 (F)

USER NAME = GG	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

IDOT DISTRICT 1 STANDARDS 104TH AVENUE SHARED-USE PATH		
SCALE: NONE	SHEET OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	15-00077-00-BT	COOK	86	48
ILLINOIS		FED. AID PROJECT		

CONTRACT NO. 61H84

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 CHICAGO, IL 60606
 312-372-3011 (P) / 312-372-5974 (F)

USER NAME = GG	DESIGNED -	REVISOR -
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PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

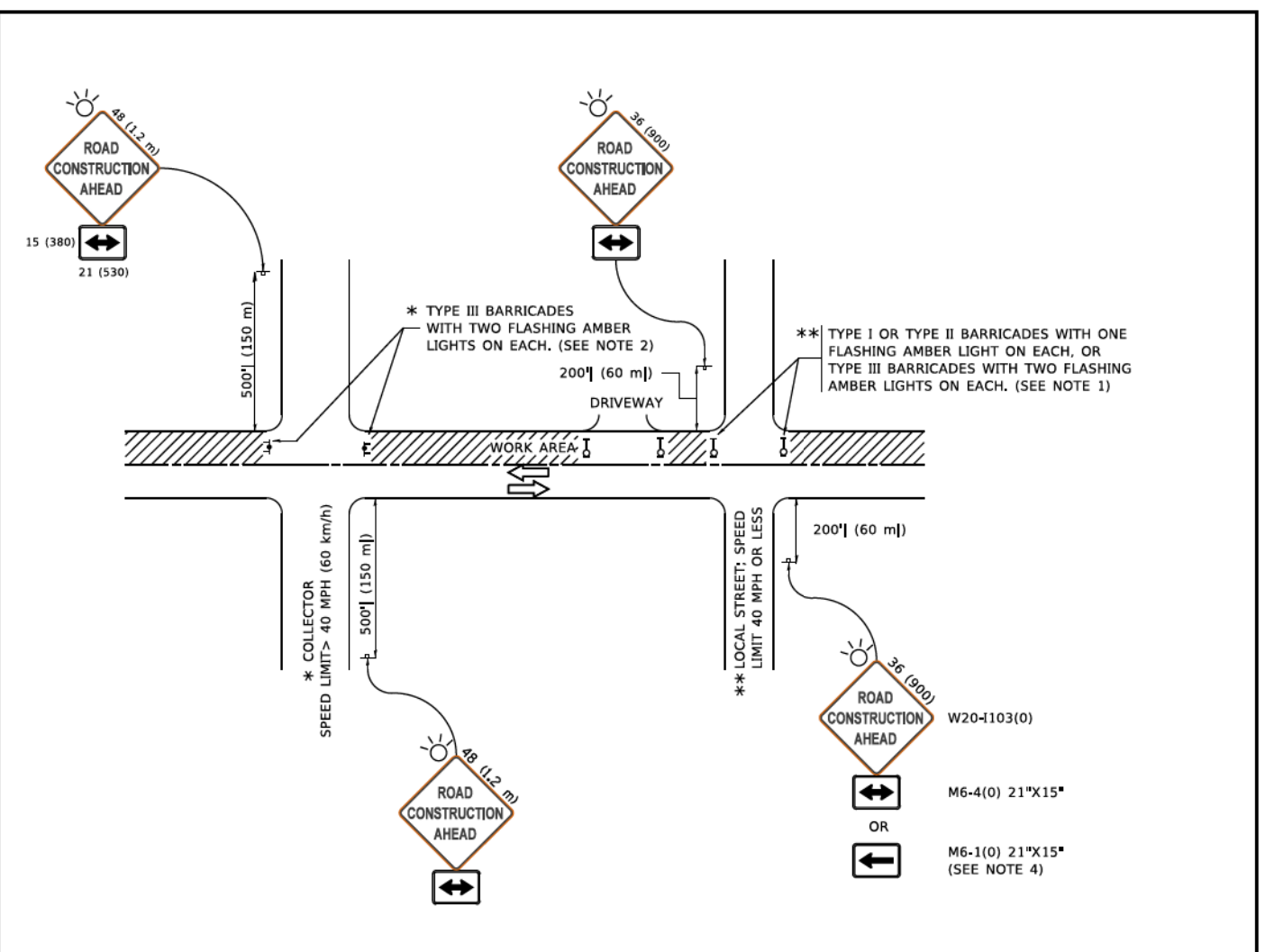
VILLAGE OF ORLAND PARK

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-10			
ILLINOIS			CONTRACT NO.	
ILLINOIS			FED. AID PROJECT	

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

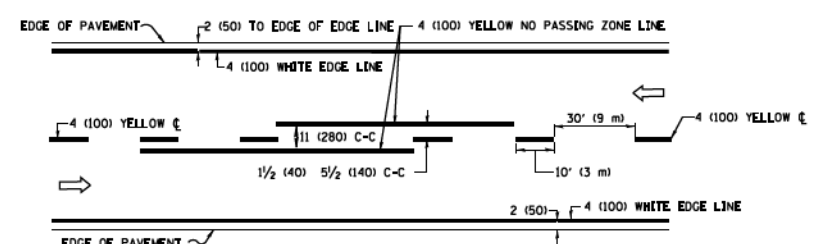


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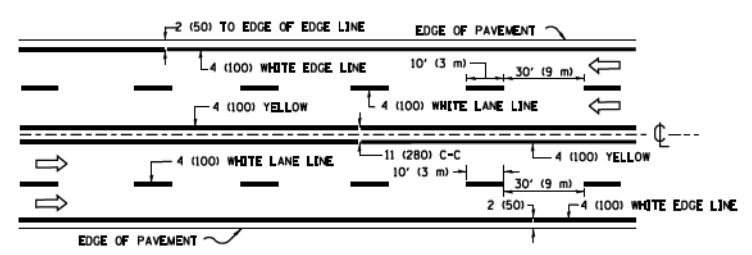
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER;
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER;
 - 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.
 - 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.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S), THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

W20-1103(0)
 M6-4(0) 21"X15"
 OR
 M6-1(0) 21"X15"
 (SEE NOTE 4)

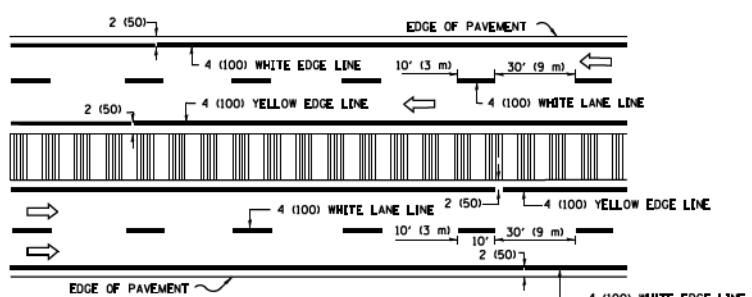
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	15-00077-00-BT	COOK	86	49
ILLINOIS			CONTRACT NO. 61H84	
ILLINOIS			FED. AID PROJECT	



2-LANE ROADWAY

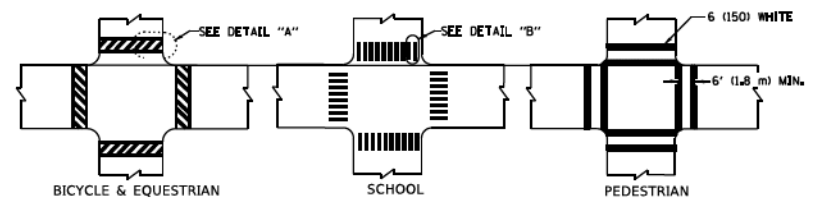


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

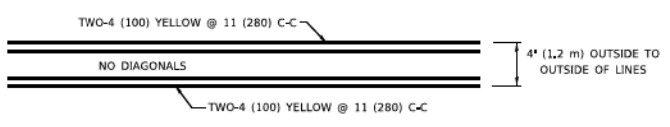


DETAIL "A"

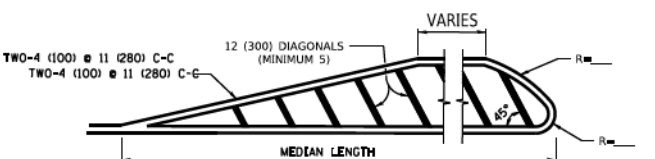
DETAIL "B"

TYPICAL CROSSWALK MARKING

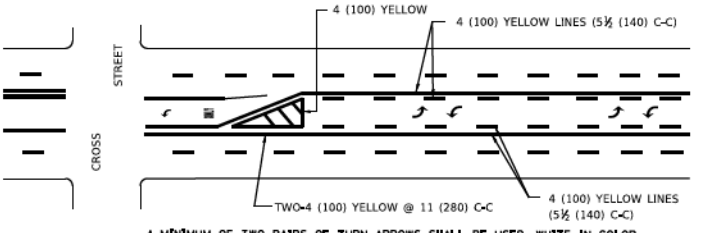
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



4' (1.2 m) WIDE MEDIANS ONLY

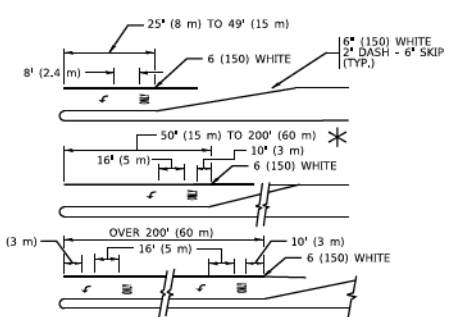


MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE

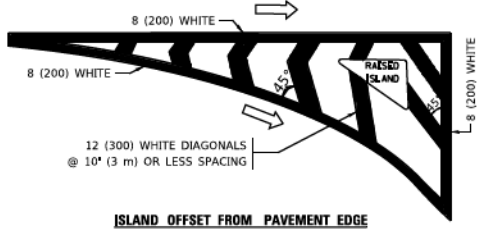
TYPICAL PAINTED MEDIAN MARKING



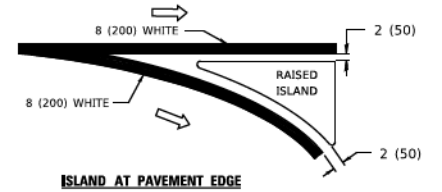
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE 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*.

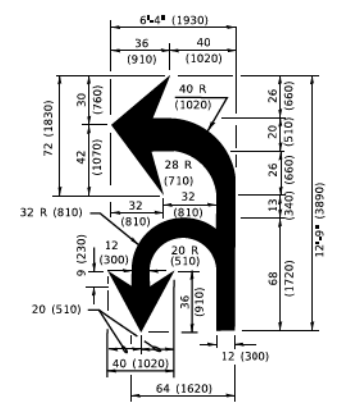


ISLAND OFFSET FROM PAVEMENT EDGE

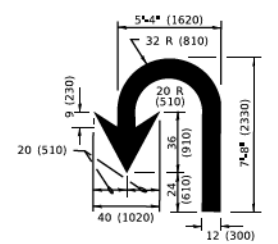


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

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 1/2 (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 MEDIANS IN YELLOW
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 1/2 (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 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; *R1* IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR *X*	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: *R1* = 3.6 SQ. FT. (0.33 m ²) EACH *X* = 54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	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))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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.

USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
PLOT SCALE = 50,0000' / In.	DRAWN -	REVISED - C. JUCIUS 07-01-13
PLOT DATE = 3/4/2019	CHECKED - C. JUCIUS 12-21-15	REVISED - C. JUCIUS 04-12-16
	DATE - 03-19-90	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

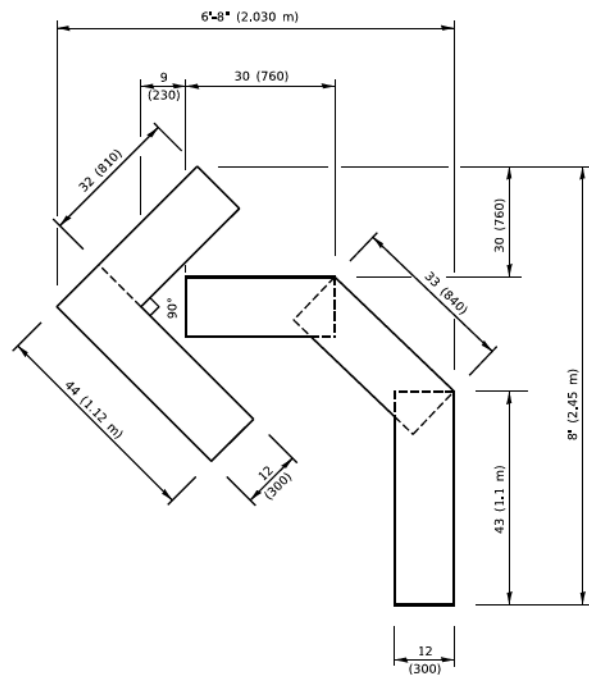
DISTRICT ONE TYPICAL PAVEMENT MARKINGS			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
			SHEET NO.
TC-13			
CONTRACT NO.			
ILLINOIS FED. AID PROJECT			

USER NAME = GG	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 10/26/2022	CHECKED -	REVISED -
	DATE - 4/6/2022	REVISED -

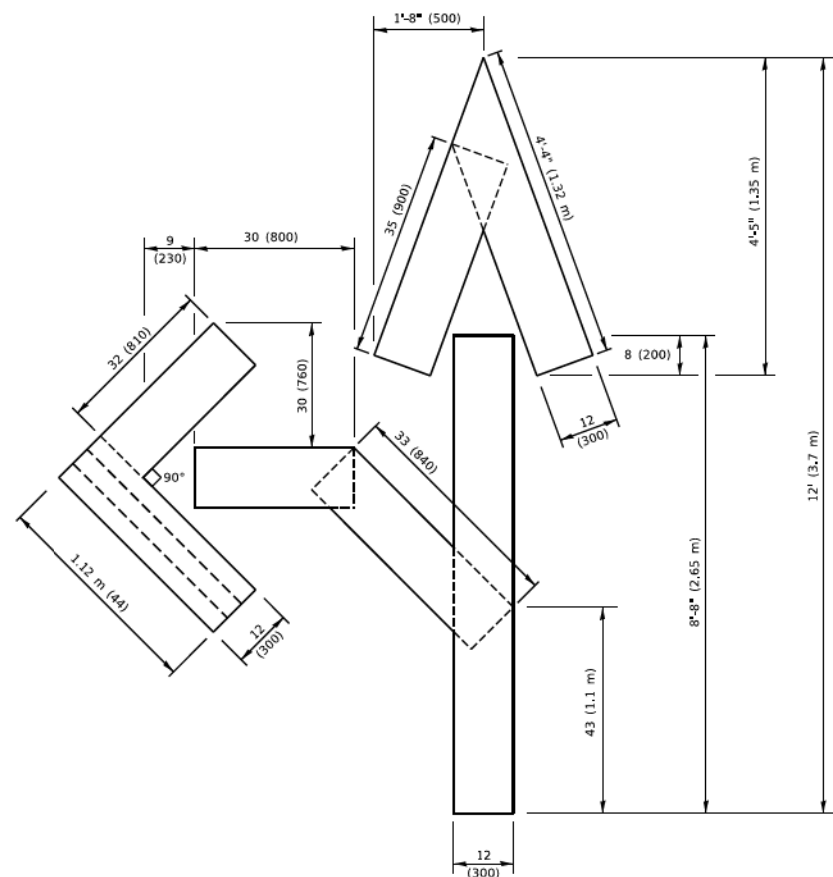
VILLAGE OF ORLAND PARK

IDOT DISTRICT 1 STANDARDS 104TH AVENUE SHARED-USE PATH			
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS
			SHEET NO.
2696	15-00077-00-BT	COOK	86 50
CONTRACT NO. 61H84			
ILLINOIS FED. AID PROJECT			

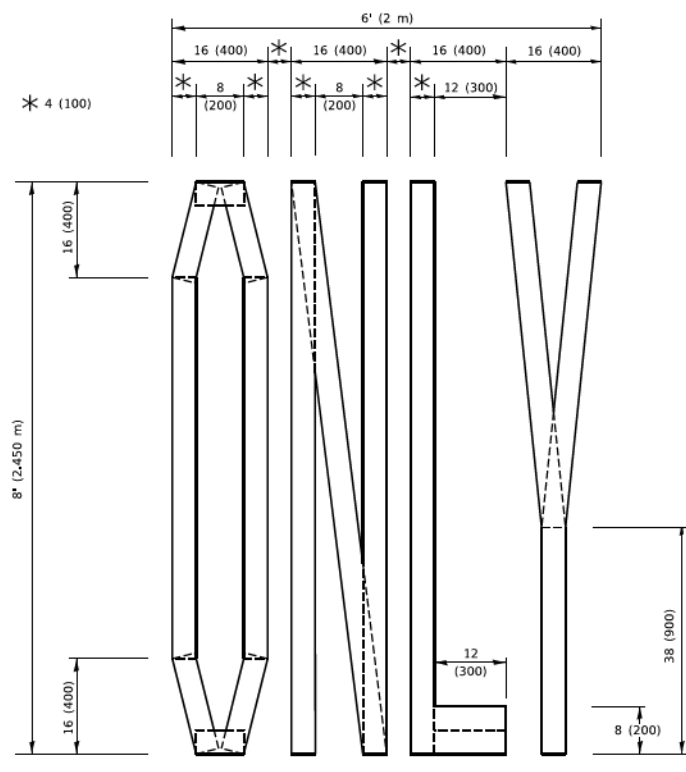
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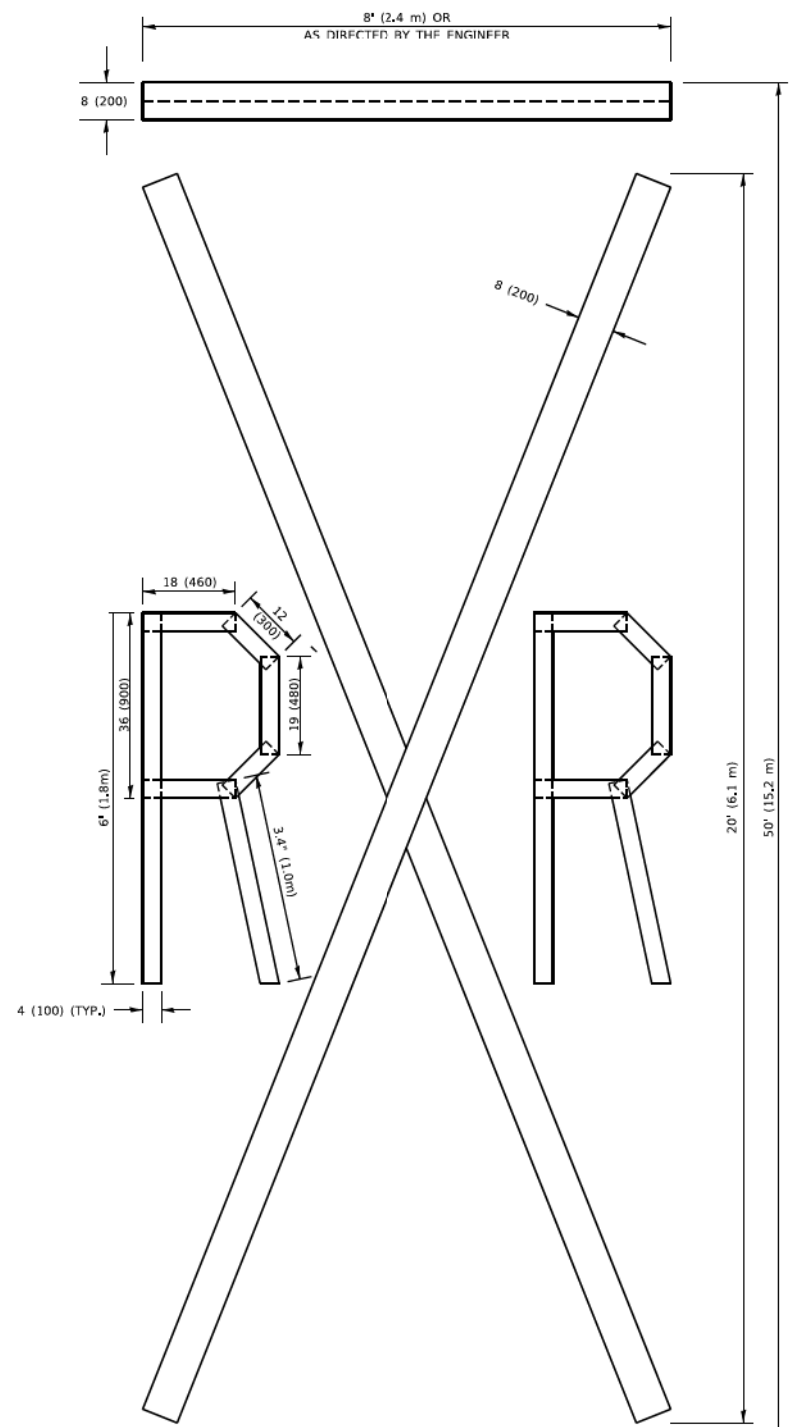
QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.41 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.1 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



QUANTITY
 4 (100) LINE = 225.9 ft. (68.9 m)
 75.3 sq. ft. (6.99 sq. m)

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

NOTE:
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.

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USER NAME = footevf	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
PLOT SCALE = 50.0068" / 1in.	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 3/4/2019	CHECKED -	REVISED - E. GOMEZ 08-28-00
	DATE - 09-18-94	REVISED - A. SCHLETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-16			
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				

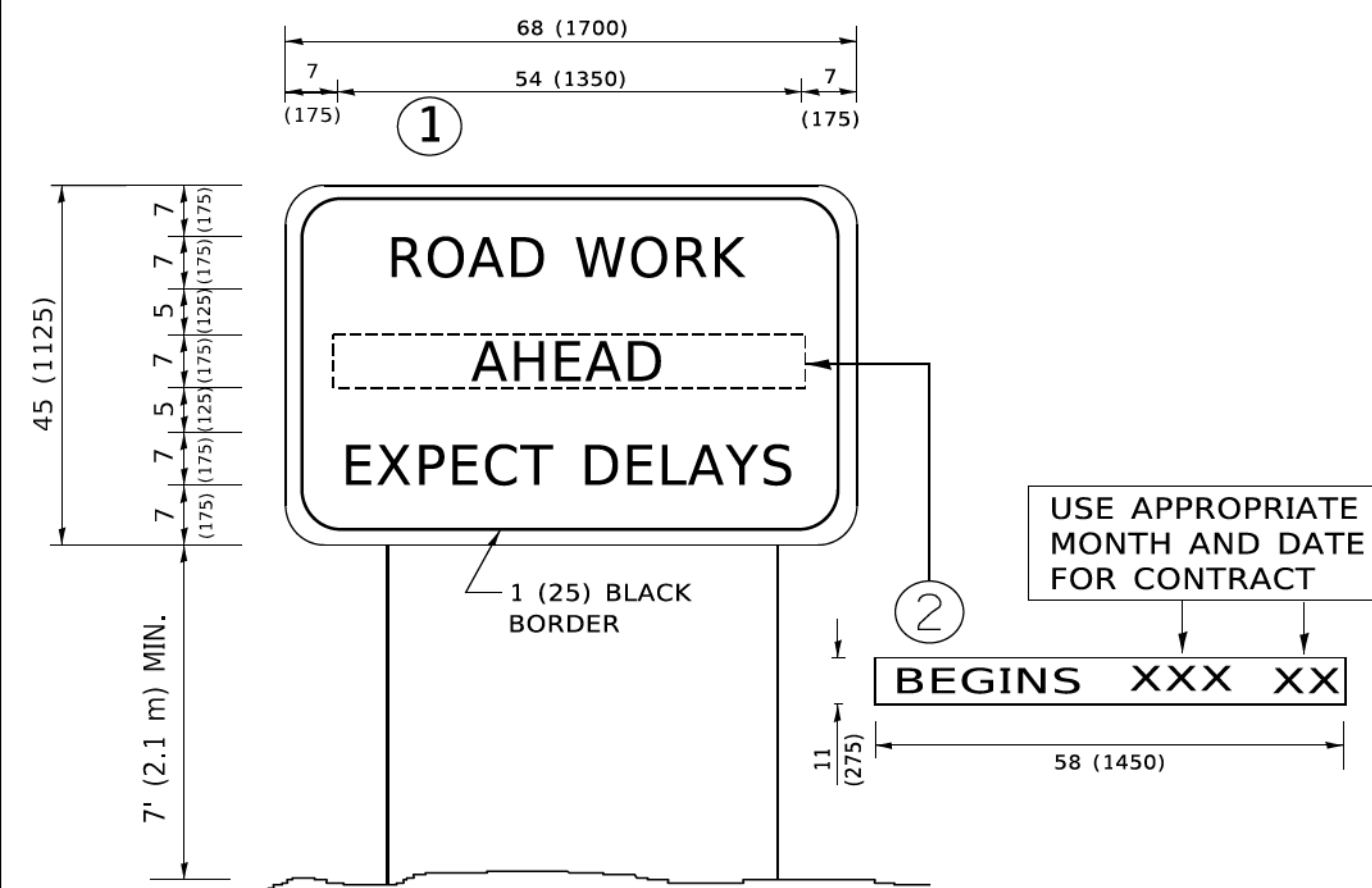
LOCHNER
 CONSULTING ENGINEERS & PLANNERS
 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606
 312-372-3011 (P) / 312-372-5974 (F)

USER NAME = GG	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 10/26/2022	CHECKED -	REVISED -
	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**IDOT DISTRICT 1 STANDARDS
 104TH AVENUE SHARED-USE PATH**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	51
CONTRACT NO. 61H84				
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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 PROJECT: 104th Avenue Shared-Use Path, IDOT District 1, Schaumburg, IL

USER NAME = foatemj	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 50,0000' / 1"	DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.	TC-22		CONTRACT NO.	
PLOT DATE = 3/4/2019	CHECKED -	REVISED - T. RAMMACHER 02-02-99		ILLINOIS FED. AID PROJECT							
	DATE -	REVISED - C. JUCIUS 01-31-07	VILLAGE OF ORLAND PARK		IDOT DISTRICT 1 STANDARDS 104TH AVENUE SHARED-USE PATH		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
							2696	15-00077-00-BT	COOK	86	52
							CONTRACT NO. 61H84				
							ILLINOIS FED. AID PROJECT				

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USER NAME = GG	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

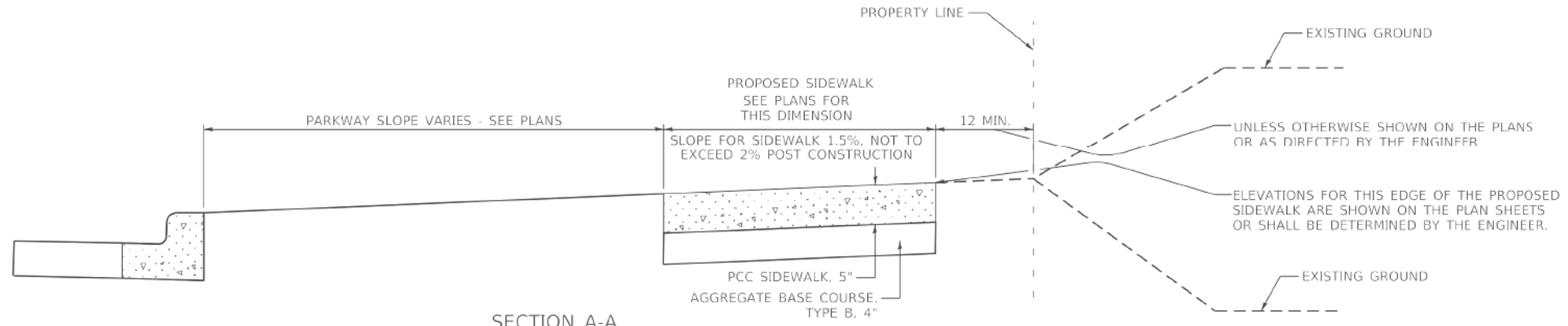
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USER NAME = Bysa	DESIGNED -	REVISED - C. JUCIUS 02-15-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY ENTRANCE SIGNING		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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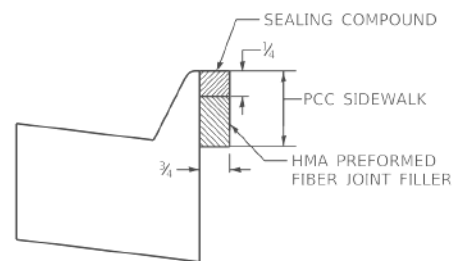
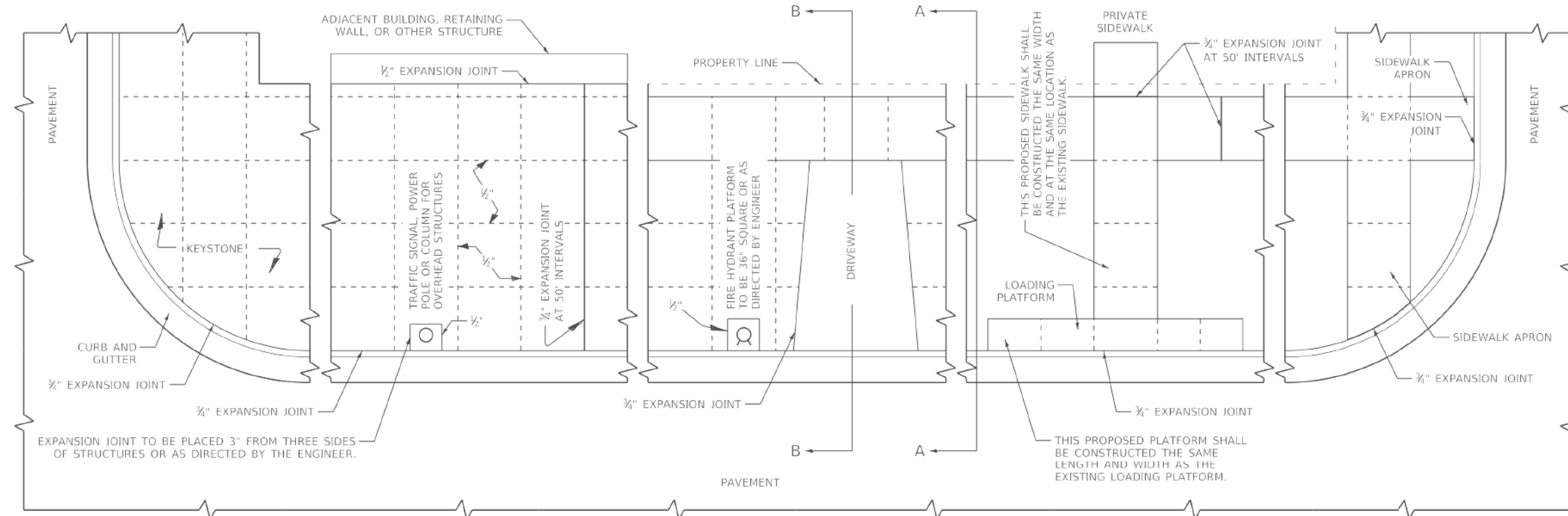
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USER NAME = GG	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

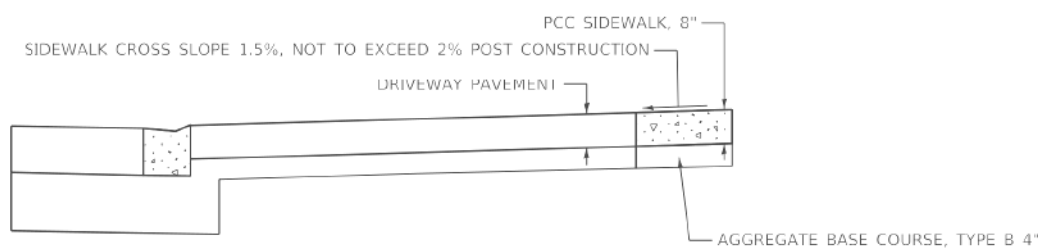
VILLAGE OF ORLAND PARK		IDOT DISTRICT 1 STANDARDS 104TH AVENUE SHARED-USE PATH		F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				2696	15-00077-00-BT	COOK	86	53
				CONTRACT NO. 61H84				
				ILLINOIS FED. AID PROJECT				



SECTION A-A



EXPANSION JOINT DETAIL



SECTION B-B

GENERAL NOTES:

ALL EXPANSION JOINTS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 424.07 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR PORTLAND CEMENT CONCRETE SIDEWALK OF THE THICKNESS SPECIFIED.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

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USER NAME = GG	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 10/26/2022	CHECKED -	REVISED -
	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

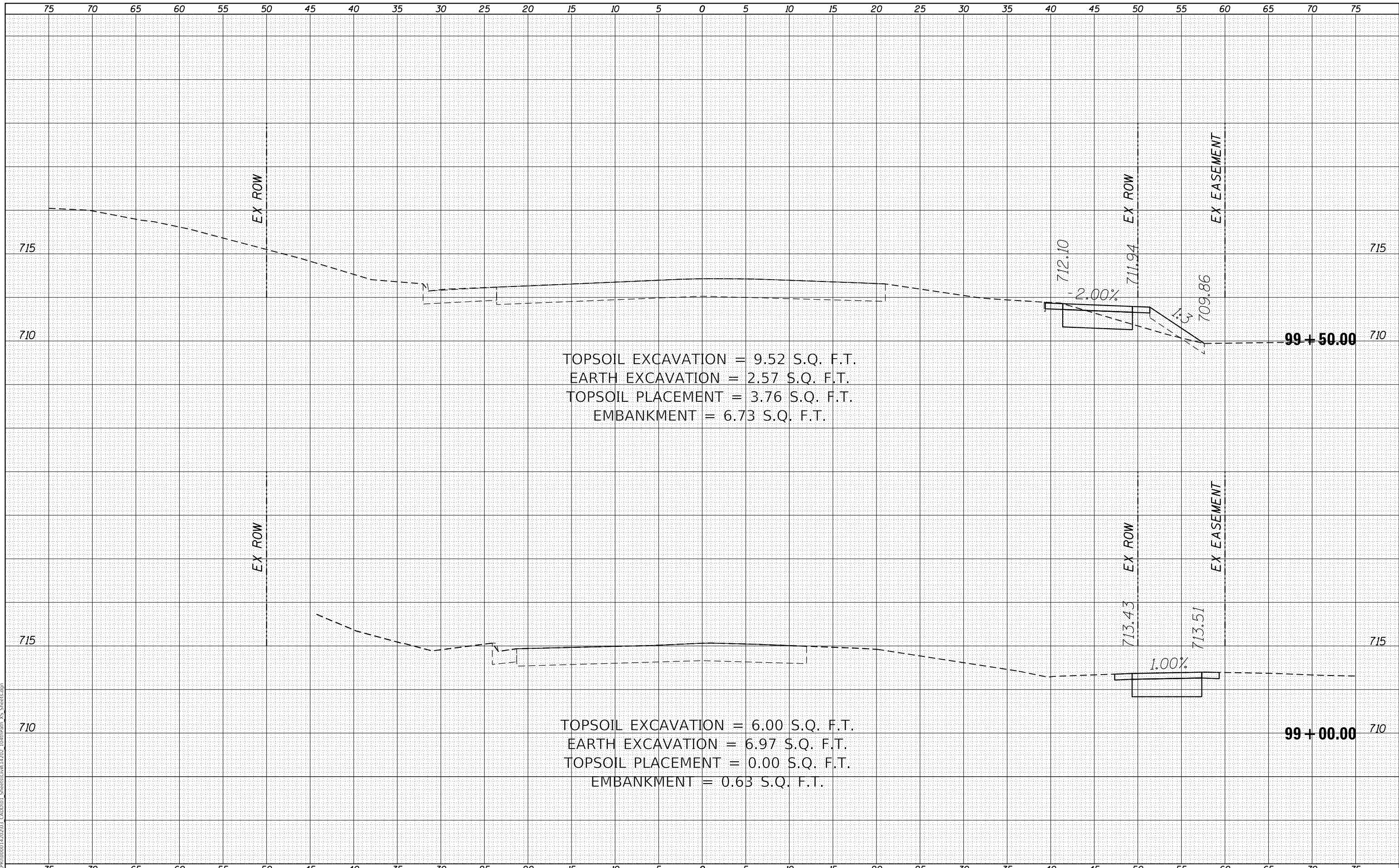
COUNTY OF COOK
DEPARTMENT OF TRANSPORTATION AND HIGHWAYS (CCDOH)
STANDARD C-003 PCC SIDEWALK CONSTRUCTION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	54
			CONTRACT NO. 61H84	
			ILLINOIS FED. AID PROJECT	

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

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

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USER NAME = GG	DESIGNED - GG	REVISIONS
	DRAWN - GG	REVISIONS
	CHECKED - AM	REVISIONS
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISIONS

VILLAGE OF ORLAND PARK

CROSS SECTIONS
104TH AVENUE SHARED-USE PATH

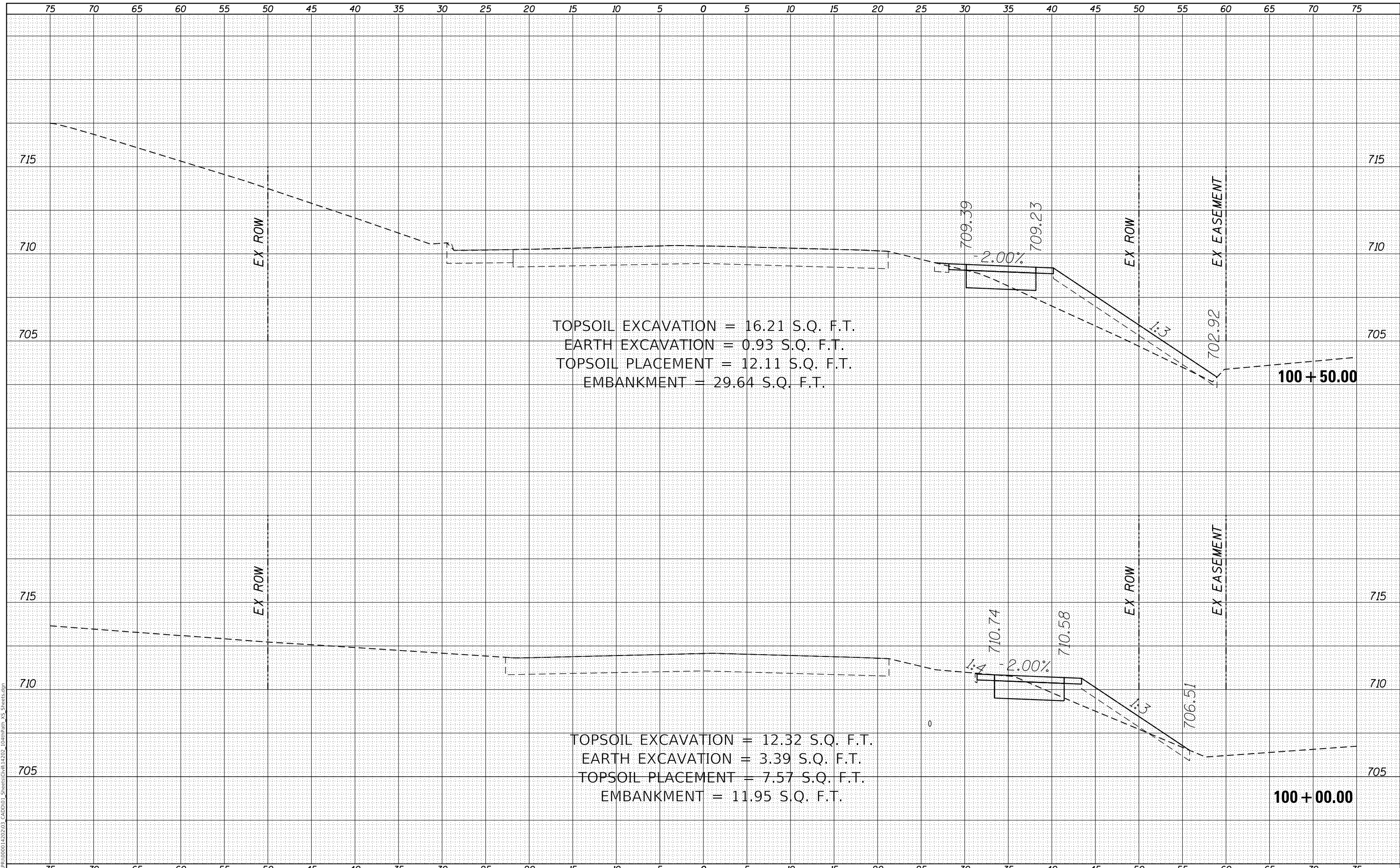
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	55
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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

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 225 WEST WASHINGTON STREET 12TH FLOOR
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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

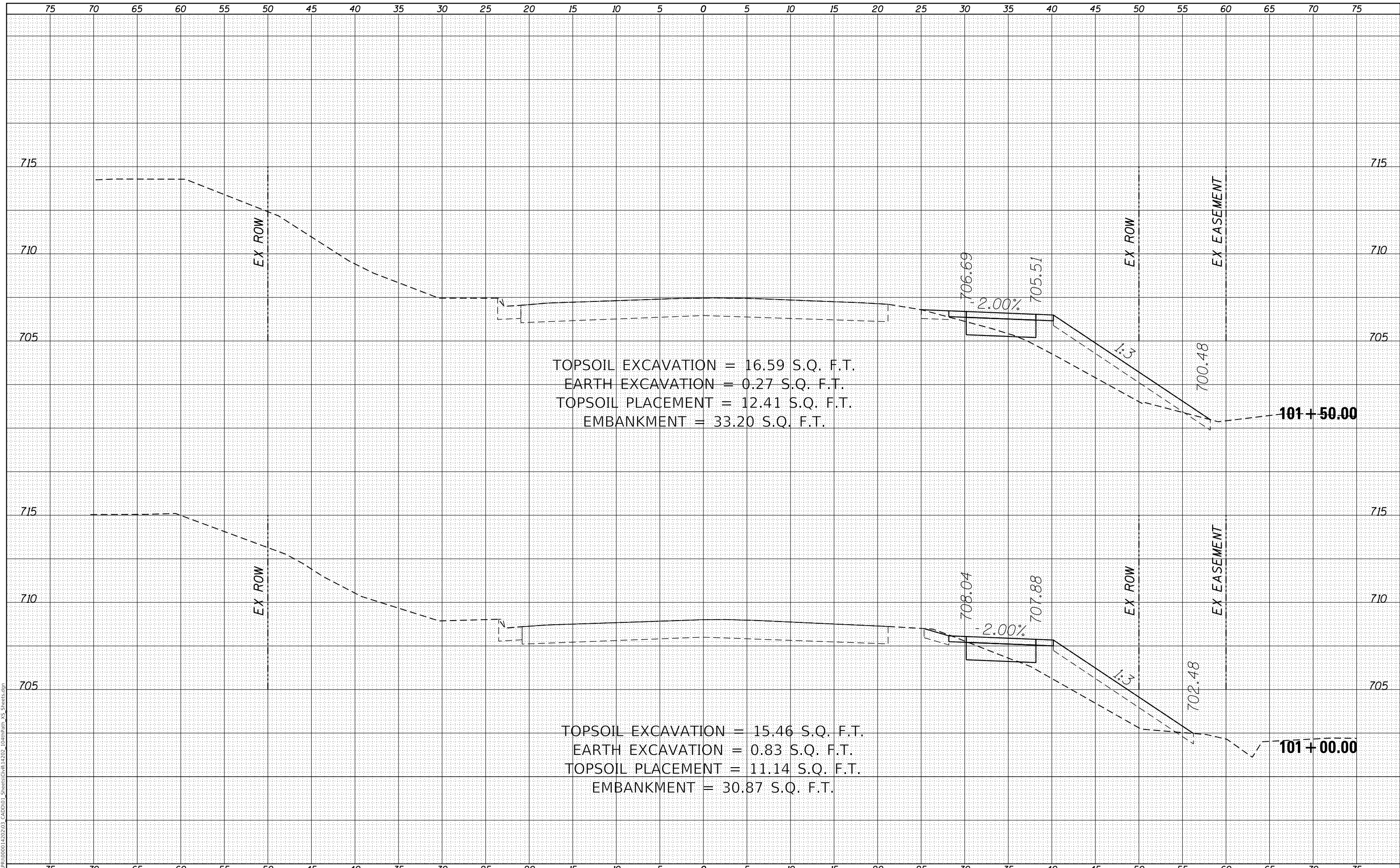
**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

SCALE: 1"=10'H, 20'V SHEET 2 OF 32 SHEETS STA. 100+00.00 TO STA. 100+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	56
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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



LOCHNER
 CONSULTING ENGINEERS & PLANNERS
 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606
 312-372-3011 (P) / 312-372-5974 (F)

USER NAME = GG	DESIGNED - GG	REVISED -
PLOT SCALE =	DRAWN - GG	REVISED -
PLOT DATE = 10/26/2022	CHECKED - AM	REVISED -
	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

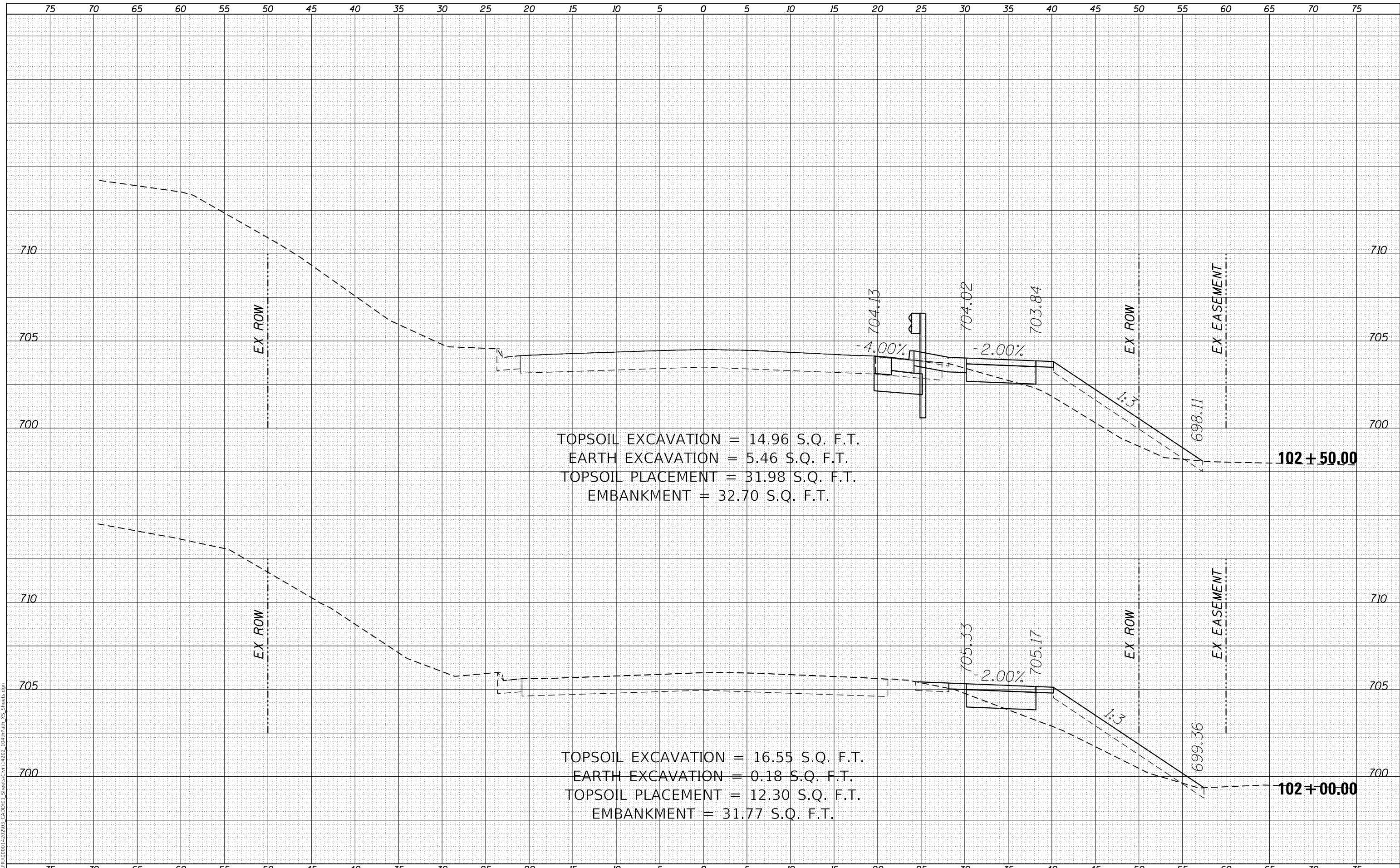
SCALE: 1"=10'H, 20'V SHEET 3 OF 32 SHEETS STA. 101+00.00 TO STA. 101+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	57
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Definit
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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

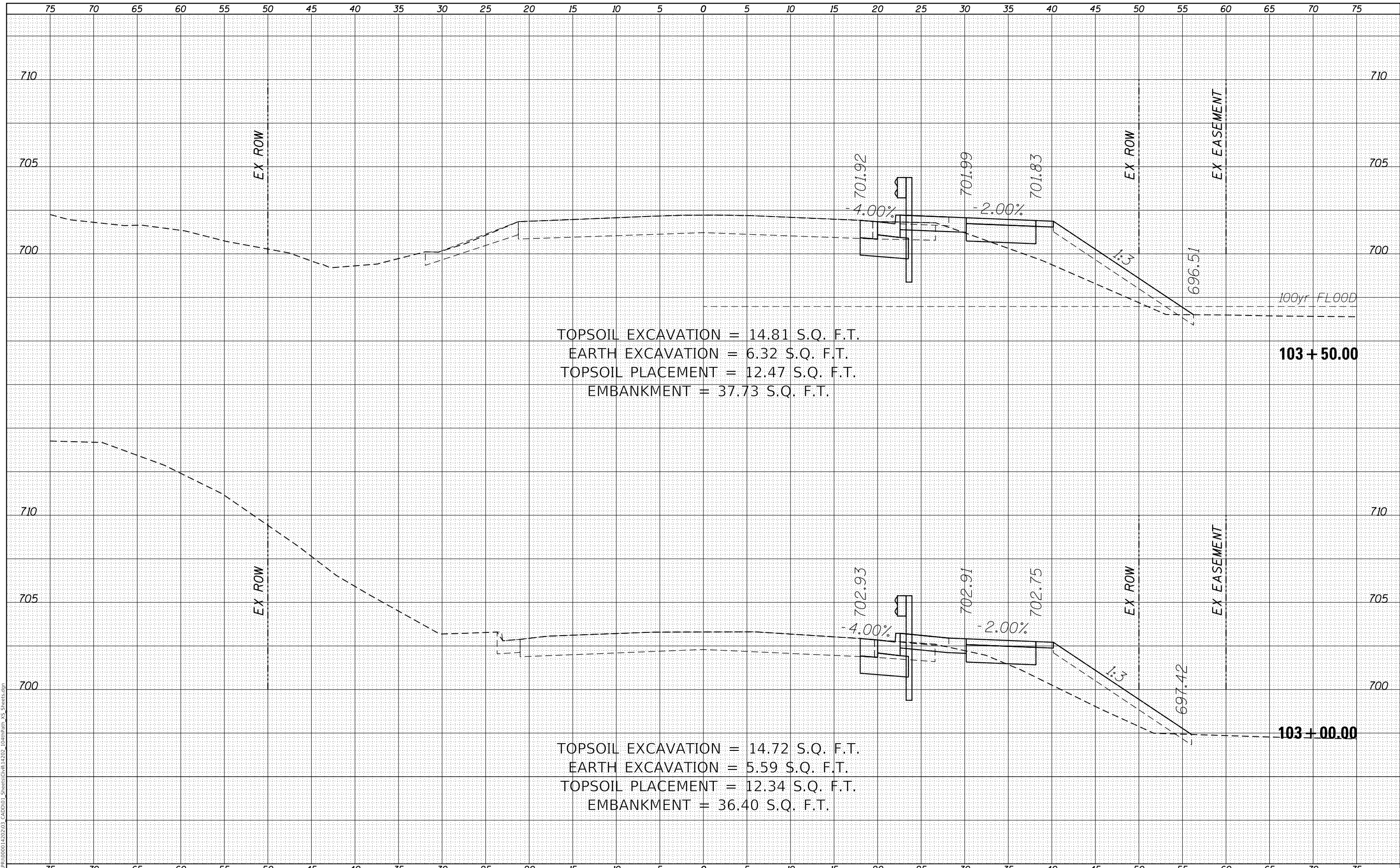
SCALE: 1"=10'H, 20'V SHEET 4 OF 32 SHEETS STA. 102+00.00 TO STA. 102+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	58
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Defaul
 FILE NAME: R:\CADD\1000014202\03_CADD\01_Sheets\Civil\14202_104thPath_VS_Sheets.dgn



TOPSOIL EXCAVATION = 14.81 S.Q. F.T.
 EARTH EXCAVATION = 6.32 S.Q. F.T.
 TOPSOIL PLACEMENT = 12.47 S.Q. F.T.
 EMBANKMENT = 37.73 S.Q. F.T.

TOPSOIL EXCAVATION = 14.72 S.Q. F.T.
 EARTH EXCAVATION = 5.59 S.Q. F.T.
 TOPSOIL PLACEMENT = 12.34 S.Q. F.T.
 EMBANKMENT = 36.40 S.Q. F.T.

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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

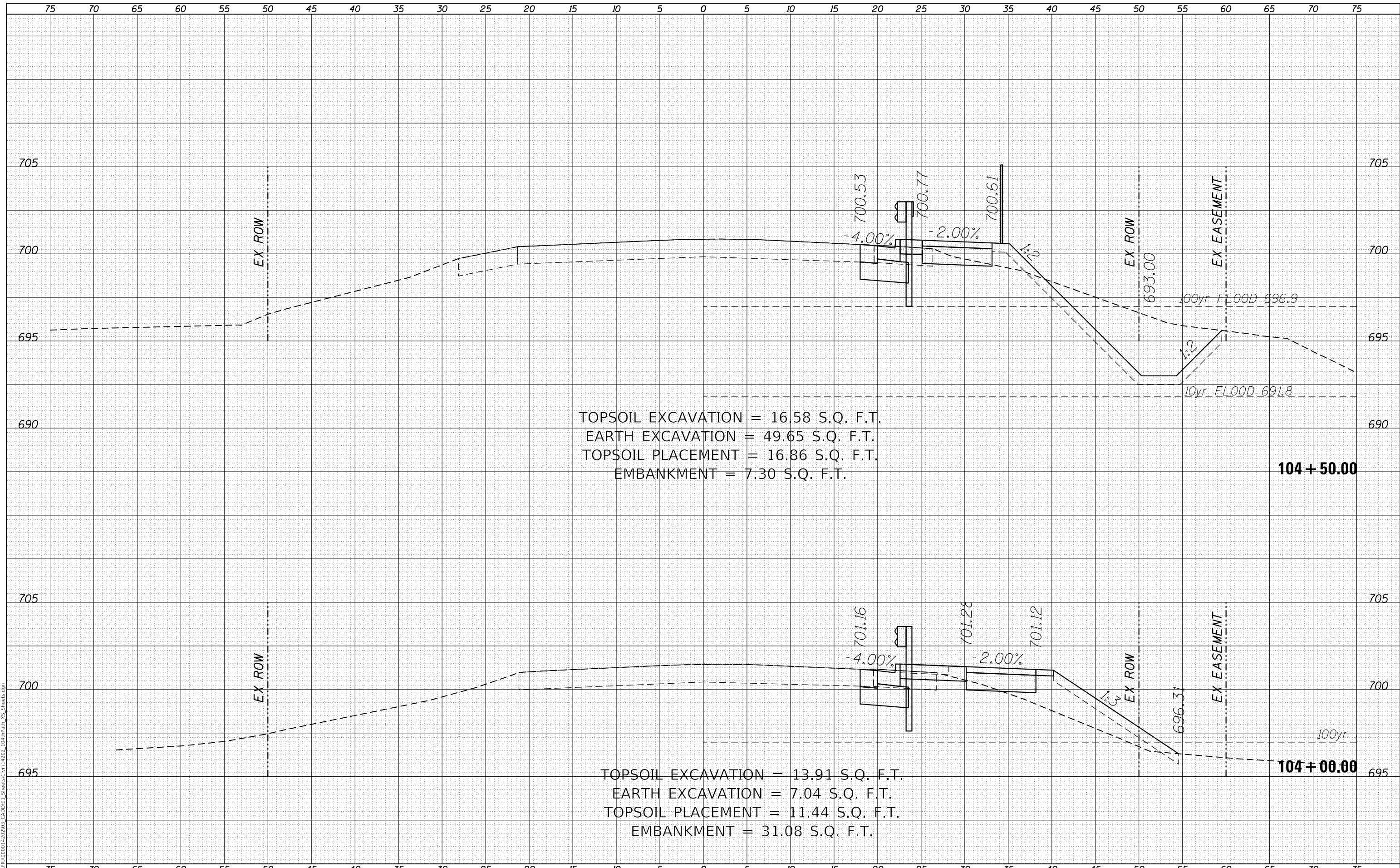
SCALE: 1"=10'H, 20'V SHEET 5 OF 32 SHEETS STA. 103+00.00 TO STA. 103+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	59
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Definit
 FILE NAME: R:\CADD\1500014202\03_CADD\01_Sheets\Civil\14202_104rpath_VS_Sheets.dgn



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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

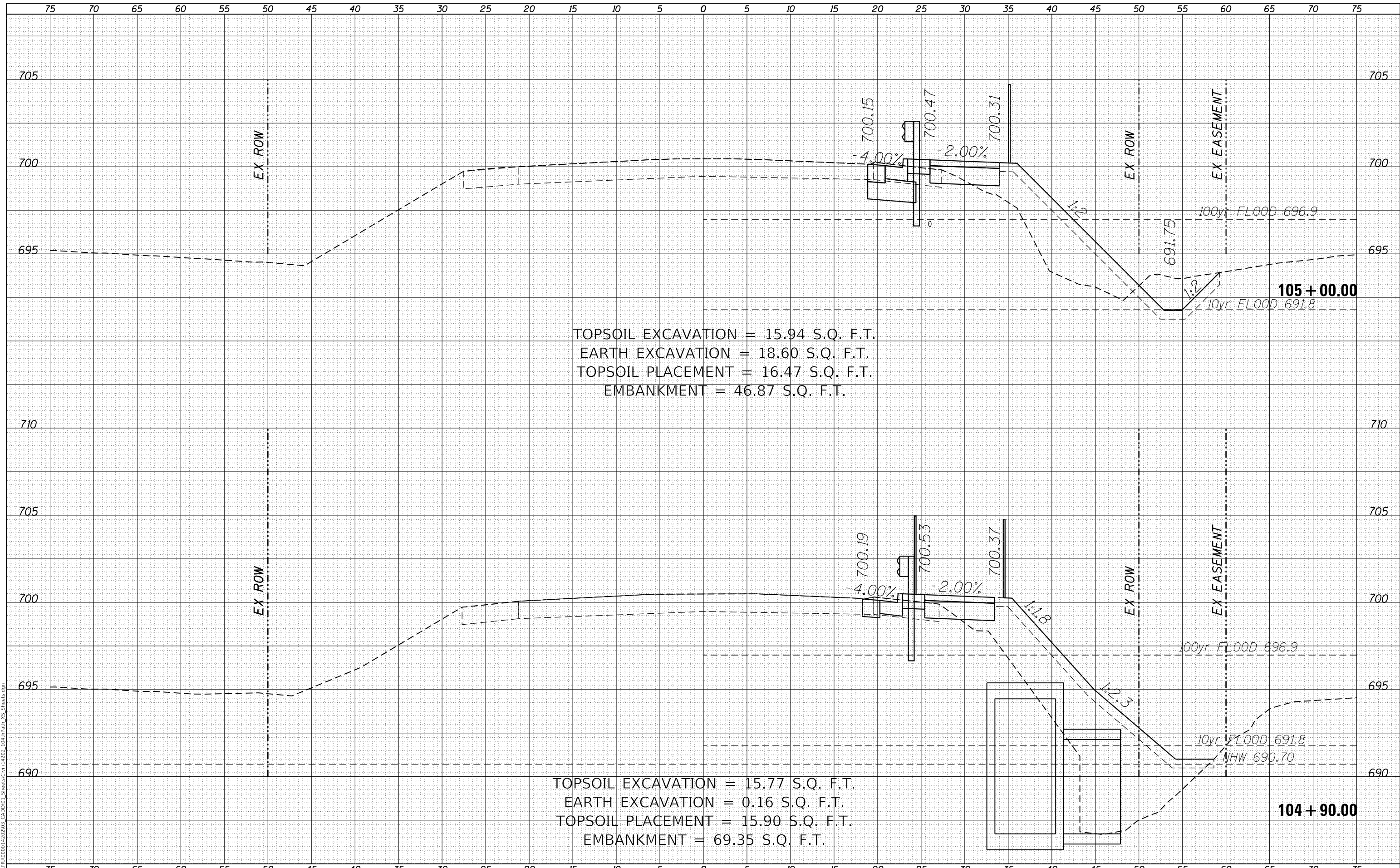
SCALE: 1"=10'H, 20'V SHEET 6 OF 32 SHEETS STA. 104+00.00 TO STA. 104+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	60
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Defaul
 FILE NAME: R:\CADD\1000014202\03_CADD\01_Sheets\Civil\14202_104rpath_VS_Sheets.dgn



TOPSOIL EXCAVATION = 15.94 S.Q. F.T.
 EARTH EXCAVATION = 18.60 S.Q. F.T.
 TOPSOIL PLACEMENT = 16.47 S.Q. F.T.
 EMBANKMENT = 46.87 S.Q. F.T.

TOPSOIL EXCAVATION = 15.77 S.Q. F.T.
 EARTH EXCAVATION = 0.16 S.Q. F.T.
 TOPSOIL PLACEMENT = 15.90 S.Q. F.T.
 EMBANKMENT = 69.35 S.Q. F.T.

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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

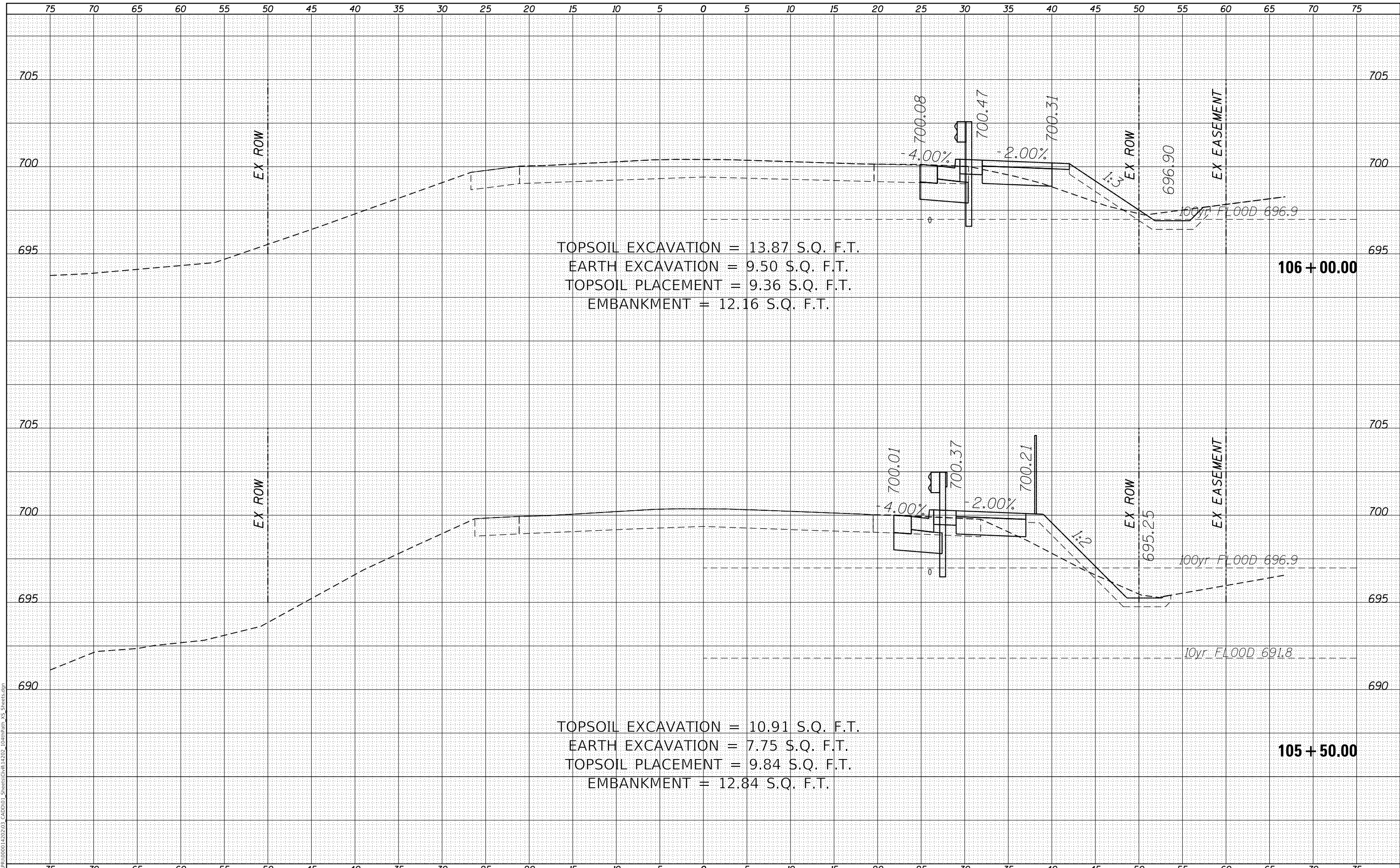
SCALE: 1"=10'H, 20'V SHEET 7 OF 32 SHEETS STA. 104+90.00 TO STA. 105+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	61
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Definit
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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

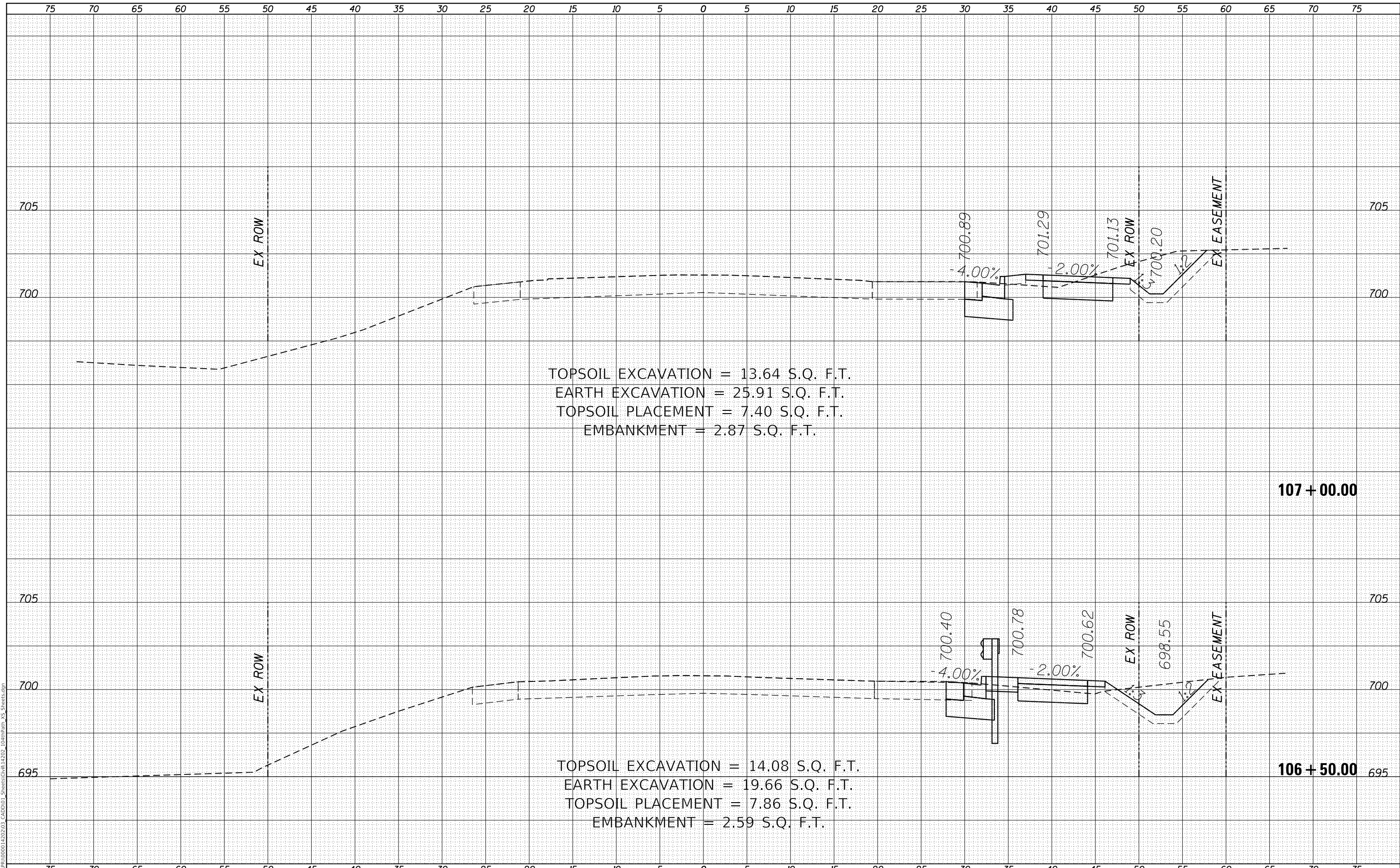
SCALE: 1"=10'H, 20'V SHEET 8 OF 32 SHEETS STA. 105+50.00 TO STA. 106+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	62
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Defaul
 FILE NAME: R:\CADD\1500014202\03_CADD\01_Sheets\Civil\14202_104thPath_VS_Sheets.dgn



TOPSOIL EXCAVATION = 13.64 S.Q. F.T.
 EARTH EXCAVATION = 25.91 S.Q. F.T.
 TOPSOIL PLACEMENT = 7.40 S.Q. F.T.
 EMBANKMENT = 2.87 S.Q. F.T.

TOPSOIL EXCAVATION = 14.08 S.Q. F.T.
 EARTH EXCAVATION = 19.66 S.Q. F.T.
 TOPSOIL PLACEMENT = 7.86 S.Q. F.T.
 EMBANKMENT = 2.59 S.Q. F.T.

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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

SCALE: 1"=10'H, 20'V SHEET 9 OF 32 SHEETS STA. 106+50.00 TO STA. 107+00.00

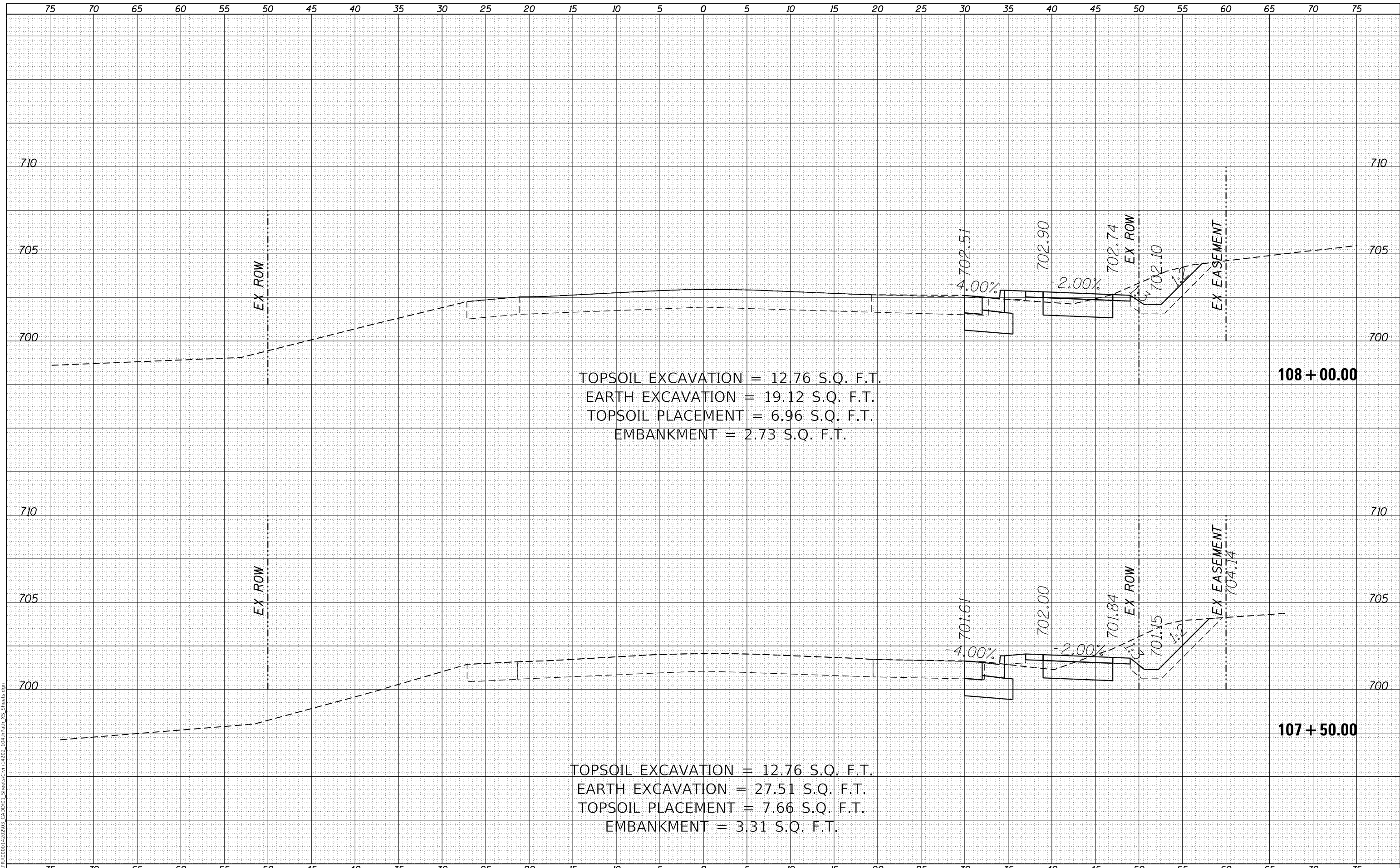
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	63
CONTRACT NO. 61H84				

ILLINOIS FED. AID PROJECT

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

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

MODEL: Defaul
 FILE NAME: R:\CADD\1000014202\03_CADD\01_Sheets\Grid\14202_104rpath_VS_Sheets.dgn



TOPSOIL EXCAVATION = 12.76 S.Q. F.T.
 EARTH EXCAVATION = 19.12 S.Q. F.T.
 TOPSOIL PLACEMENT = 6.96 S.Q. F.T.
 EMBANKMENT = 2.73 S.Q. F.T.

TOPSOIL EXCAVATION = 12.76 S.Q. F.T.
 EARTH EXCAVATION = 27.51 S.Q. F.T.
 TOPSOIL PLACEMENT = 7.66 S.Q. F.T.
 EMBANKMENT = 3.31 S.Q. F.T.

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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

CROSS SECTIONS
104TH AVENUE SHARED-USE PATH

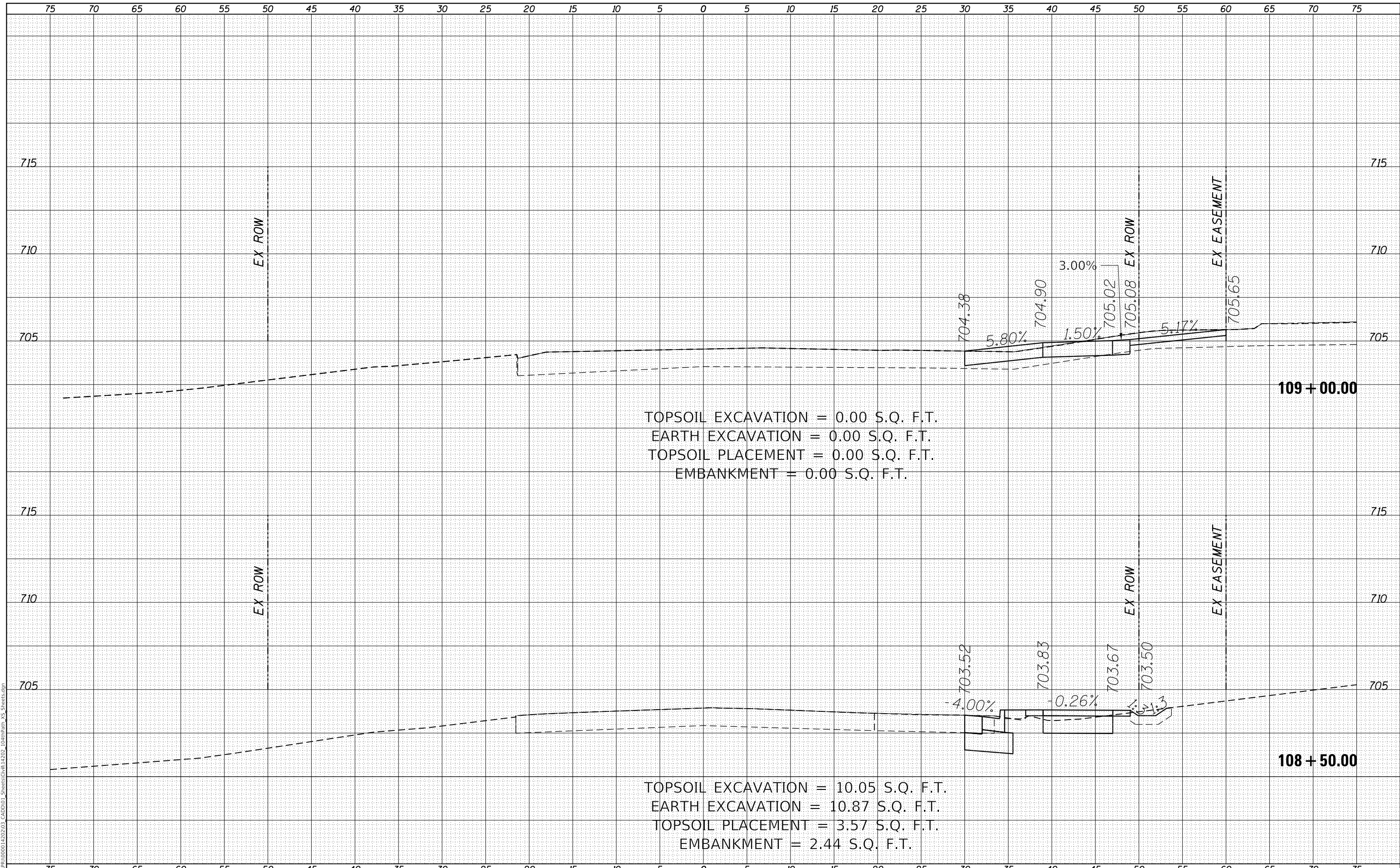
SCALE: 1"=10'H, 20'V SHEET 10 OF 32 SHEETS STA. 107+50.00 TO STA. 108+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	64
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Defaul
 FILE NAME: R:\CADD\1500014202\03_CADD\01_Sheets\Grid\14202_104thPath_VS_Sheets.dgn



TOPSOIL EXCAVATION = 0.00 S.Q. F.T.
 EARTH EXCAVATION = 0.00 S.Q. F.T.
 TOPSOIL PLACEMENT = 0.00 S.Q. F.T.
 EMBANKMENT = 0.00 S.Q. F.T.

TOPSOIL EXCAVATION = 10.05 S.Q. F.T.
 EARTH EXCAVATION = 10.87 S.Q. F.T.
 TOPSOIL PLACEMENT = 3.57 S.Q. F.T.
 EMBANKMENT = 2.44 S.Q. F.T.

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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

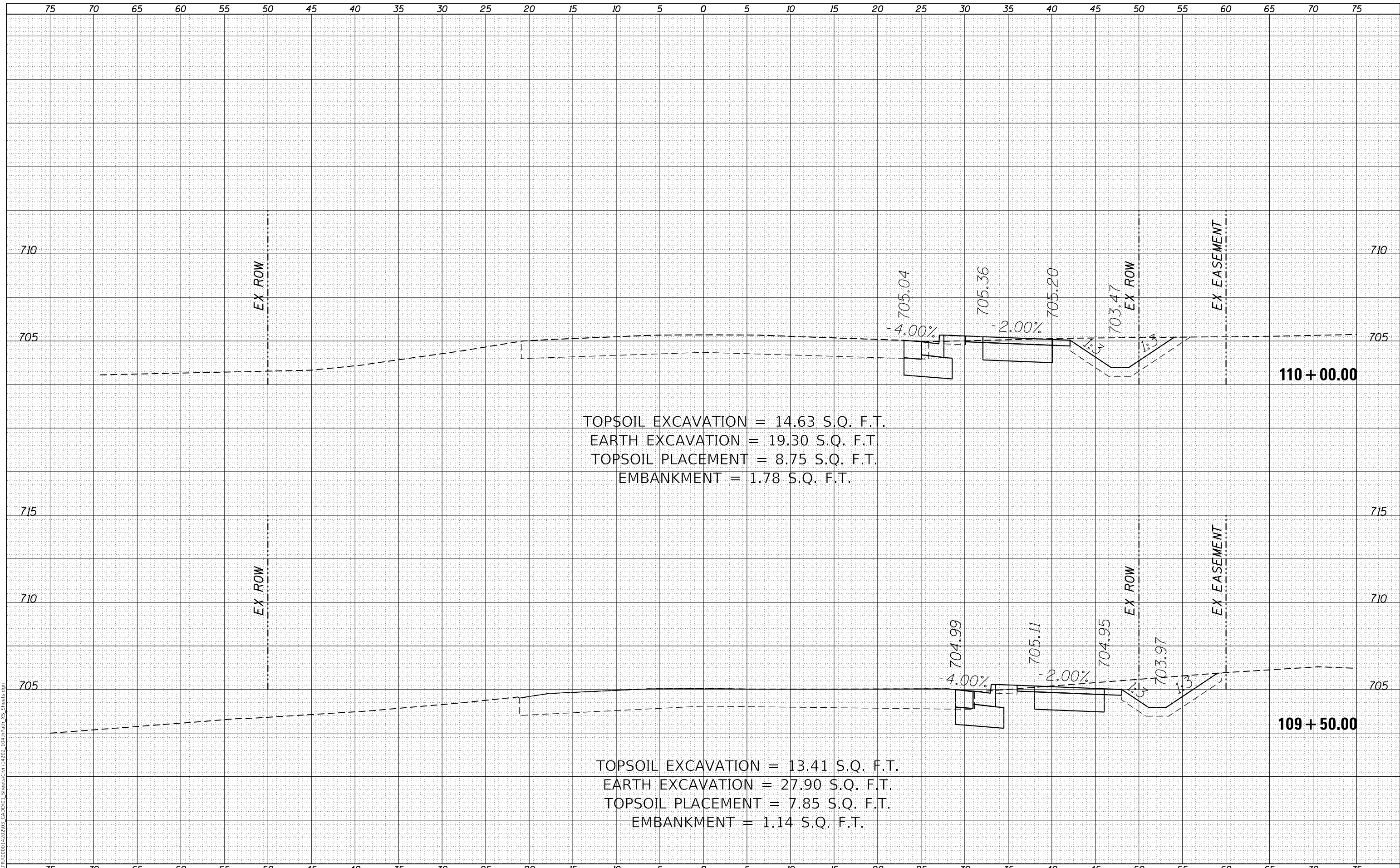
SCALE: 1"=10'H, 20'V SHEET 11 OF 32 SHEETS STA. 108+50.00 TO STA. 109+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	65
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Defaul
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TOPSOIL EXCAVATION = 14.63 S.Q. F.T.
 EARTH EXCAVATION = 19.30 S.Q. F.T.
 TOPSOIL PLACEMENT = 8.75 S.Q. F.T.
 EMBANKMENT = 1.78 S.Q. F.T.

TOPSOIL EXCAVATION = 13.41 S.Q. F.T.
 EARTH EXCAVATION = 27.90 S.Q. F.T.
 TOPSOIL PLACEMENT = 7.85 S.Q. F.T.
 EMBANKMENT = 1.14 S.Q. F.T.

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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

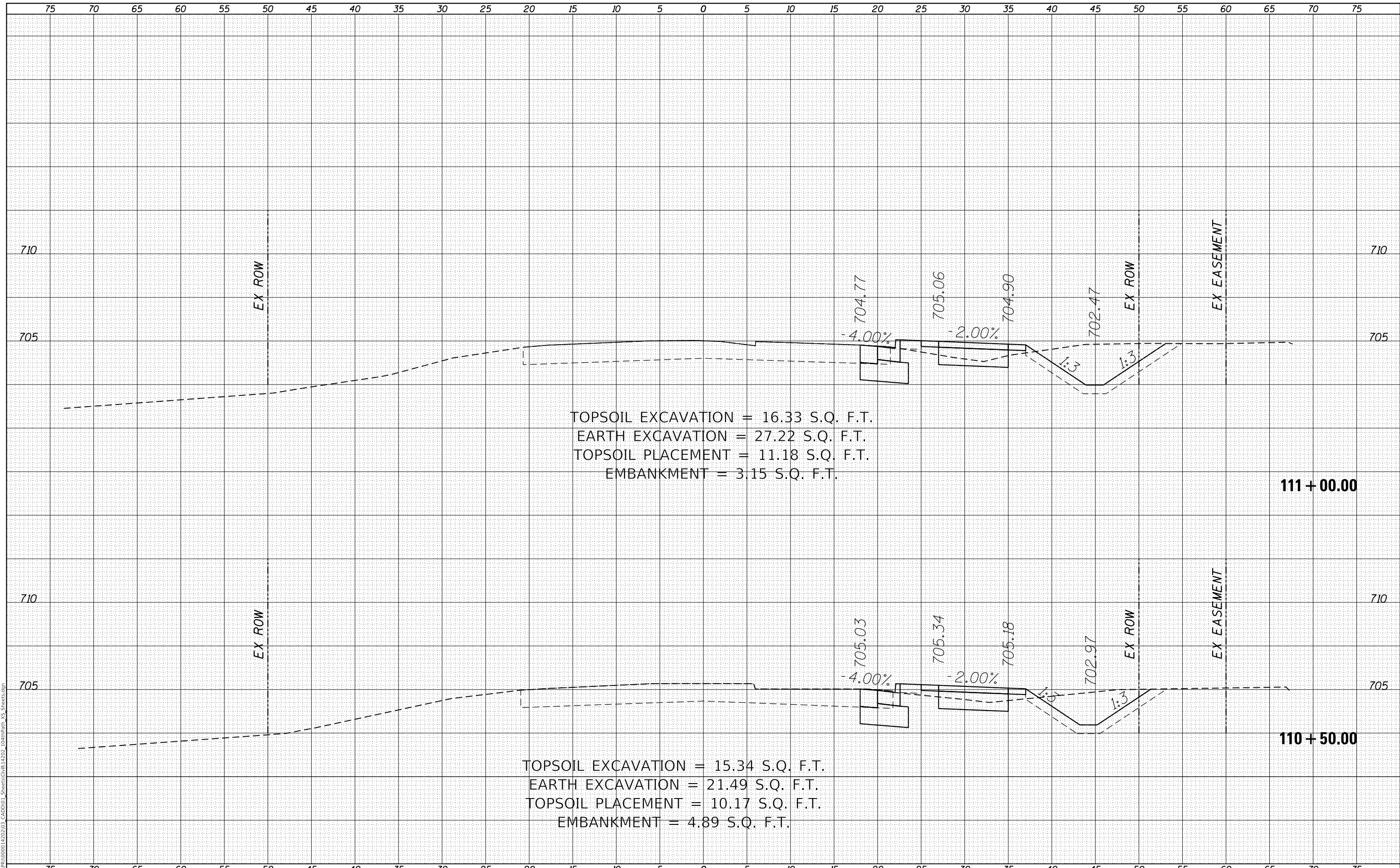
SCALE: 1"=10'H, 20'V SHEET 12 OF 32 SHEETS STA. 109+50.00 TO STA. 110+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	66
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Definit
 FILE NAME: R:\CHP\1500014202\03_CADD\01_Sheets\Civil\14202_104thPath_VS_Sheets.dgn



TOPSOIL EXCAVATION = 16.33 S.Q. F.T.
 EARTH EXCAVATION = 27.22 S.Q. F.T.
 TOPSOIL PLACEMENT = 11.18 S.Q. F.T.
 EMBANKMENT = 3.15 S.Q. F.T.

TOPSOIL EXCAVATION = 15.34 S.Q. F.T.
 EARTH EXCAVATION = 21.49 S.Q. F.T.
 TOPSOIL PLACEMENT = 10.17 S.Q. F.T.
 EMBANKMENT = 4.89 S.Q. F.T.

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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

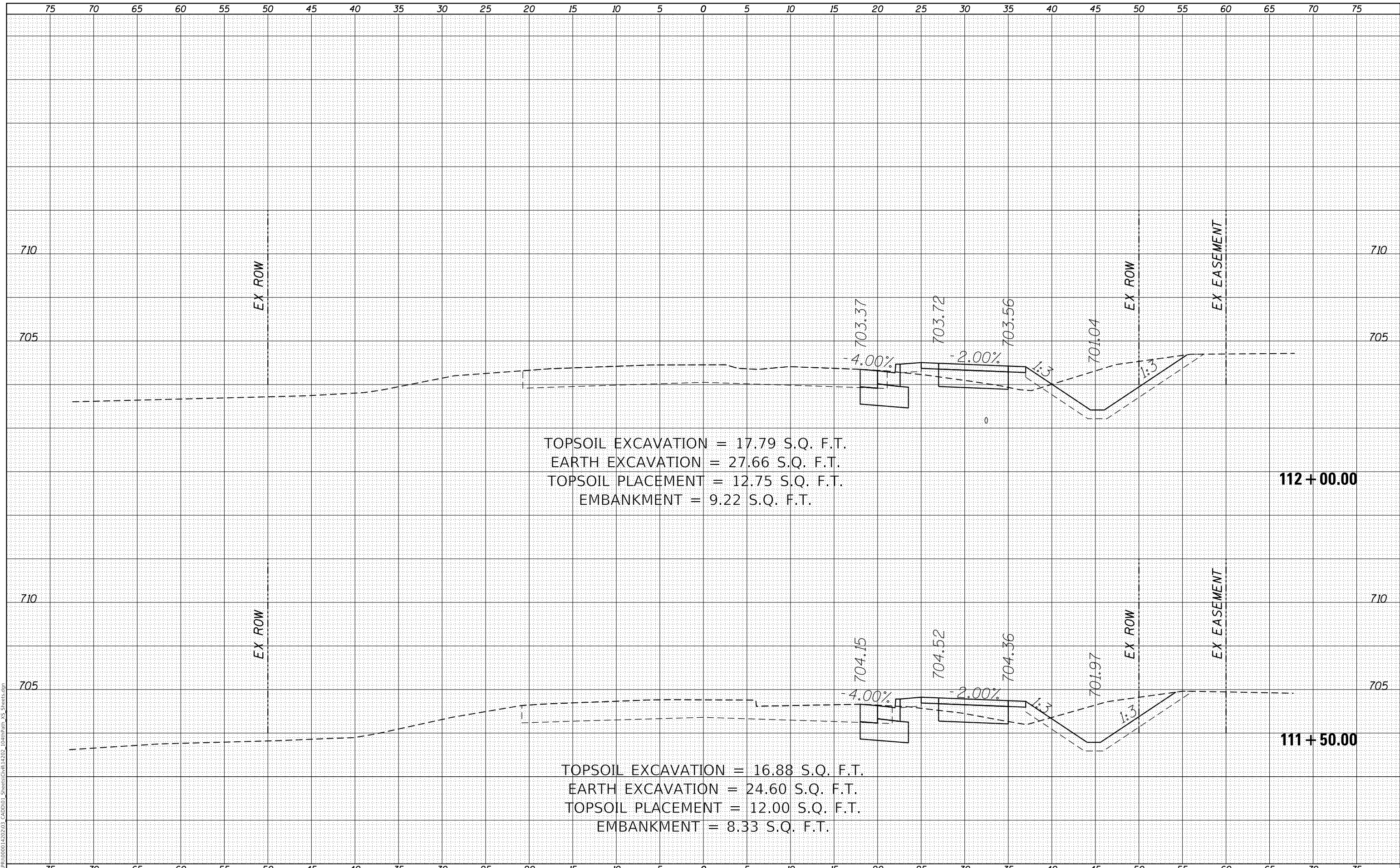
SCALE: 1"=10'H, 20'V SHEET 13 OF 32 SHEETS STA. 110+50.00 TO STA. 111+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	67
				CONTRACT NO. 61H84
				ILLINOIS FED. AID PROJECT

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

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

MODEL: Defaul
 FILE NAME: R:\CADD\1500014202\03_CADD\01_Sheets\Civil\14202_104thPath_VS_Sheets.dgn



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USER NAME = GG	DESIGNED - GG	REVISD -
	DRAWN - GG	REVISD -
PLOT SCALE =	CHECKED - AM	REVISD -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISD -

VILLAGE OF ORLAND PARK

**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

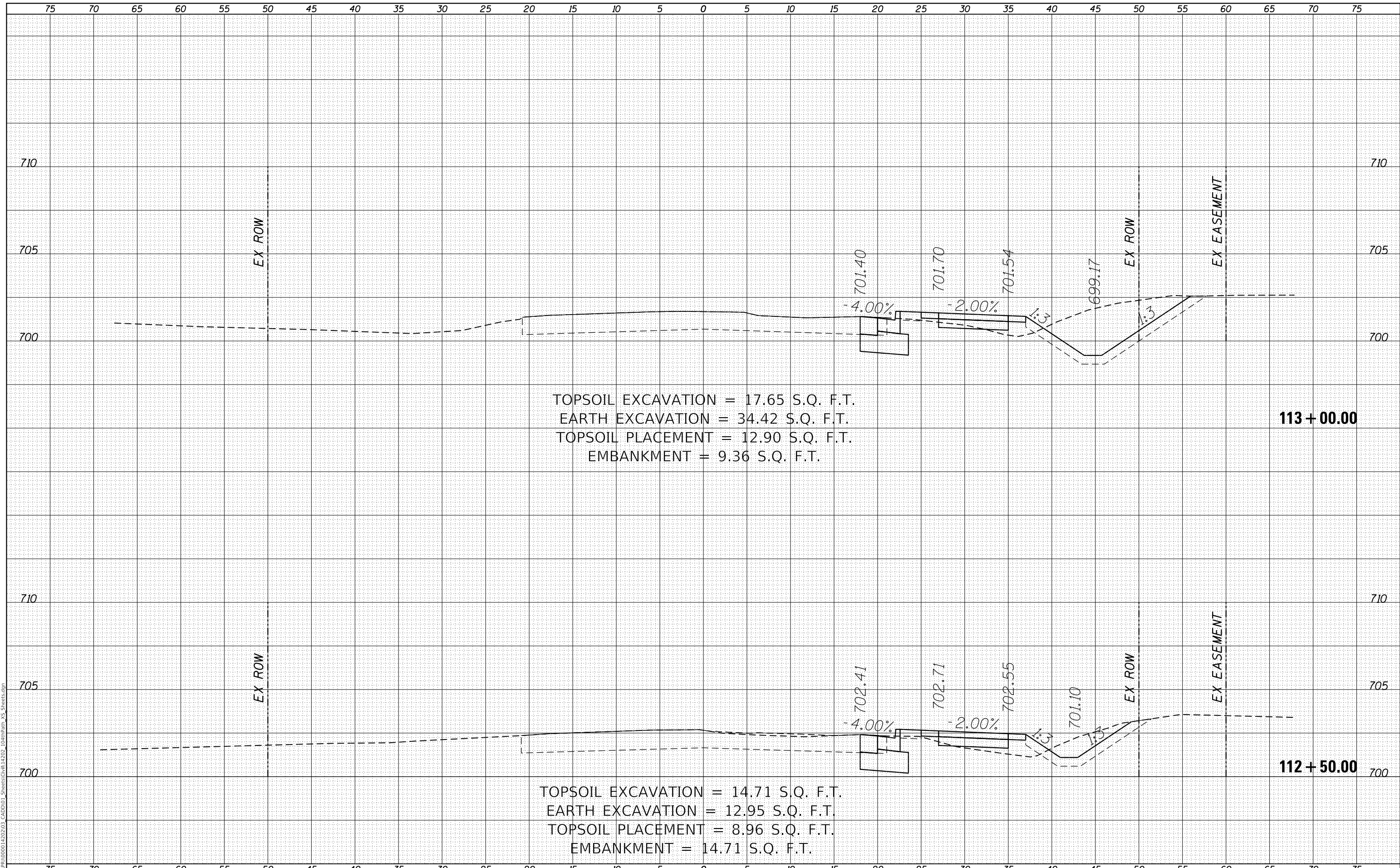
SCALE: 1"=10'H, 20'V SHEET 14 OF 32 SHEETS STA. 111+50.00 TO STA. 112+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	68
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Defaul
 FILE NAME: R:\CADD\1500014202\03_CADD\01_Sheets\Civil\14202_104rpath_VS_Sheets.dgn



TOPSOIL EXCAVATION = 17.65 S.Q. F.T.
 EARTH EXCAVATION = 34.42 S.Q. F.T.
 TOPSOIL PLACEMENT = 12.90 S.Q. F.T.
 EMBANKMENT = 9.36 S.Q. F.T.

113 + 00.00

TOPSOIL EXCAVATION = 14.71 S.Q. F.T.
 EARTH EXCAVATION = 12.95 S.Q. F.T.
 TOPSOIL PLACEMENT = 8.96 S.Q. F.T.
 EMBANKMENT = 14.71 S.Q. F.T.

112 + 50.00

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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

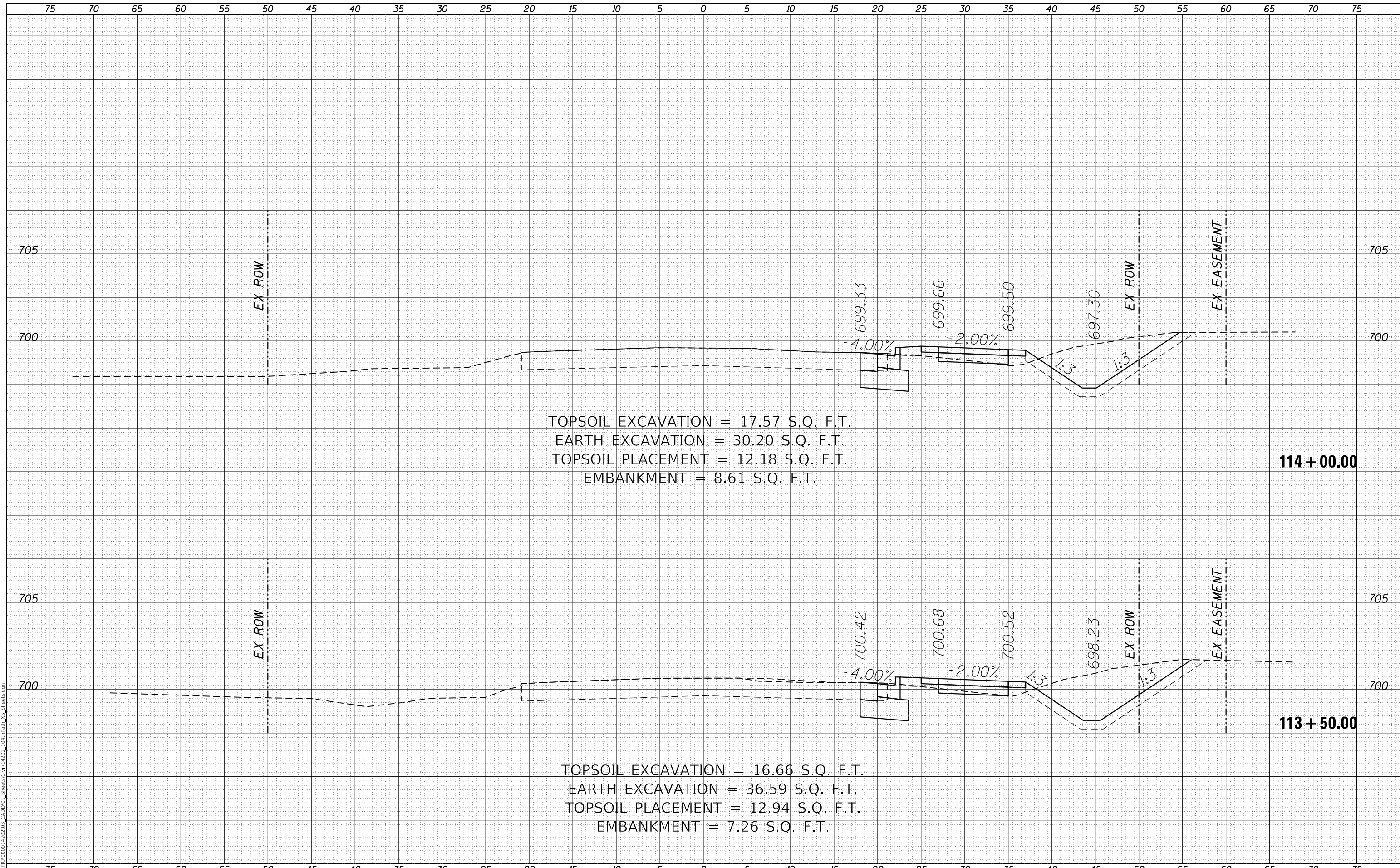
SCALE: 1"=10'H, 20'V SHEET 15 OF 32 SHEETS STA. 112+50.00 TO STA. 113+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	69
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Defaulr
 FILE NAME: R:\CADD\1500014202\03_CADD\01_Sheets\Civil\14202_104thPath_VS_Sheets.dgn



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USER NAME = GG	DESIGNED - GG	REVISIONS
	DRAWN - GG	REVISIONS
PLOT SCALE =	CHECKED - AM	REVISIONS
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISIONS

VILLAGE OF ORLAND PARK

**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

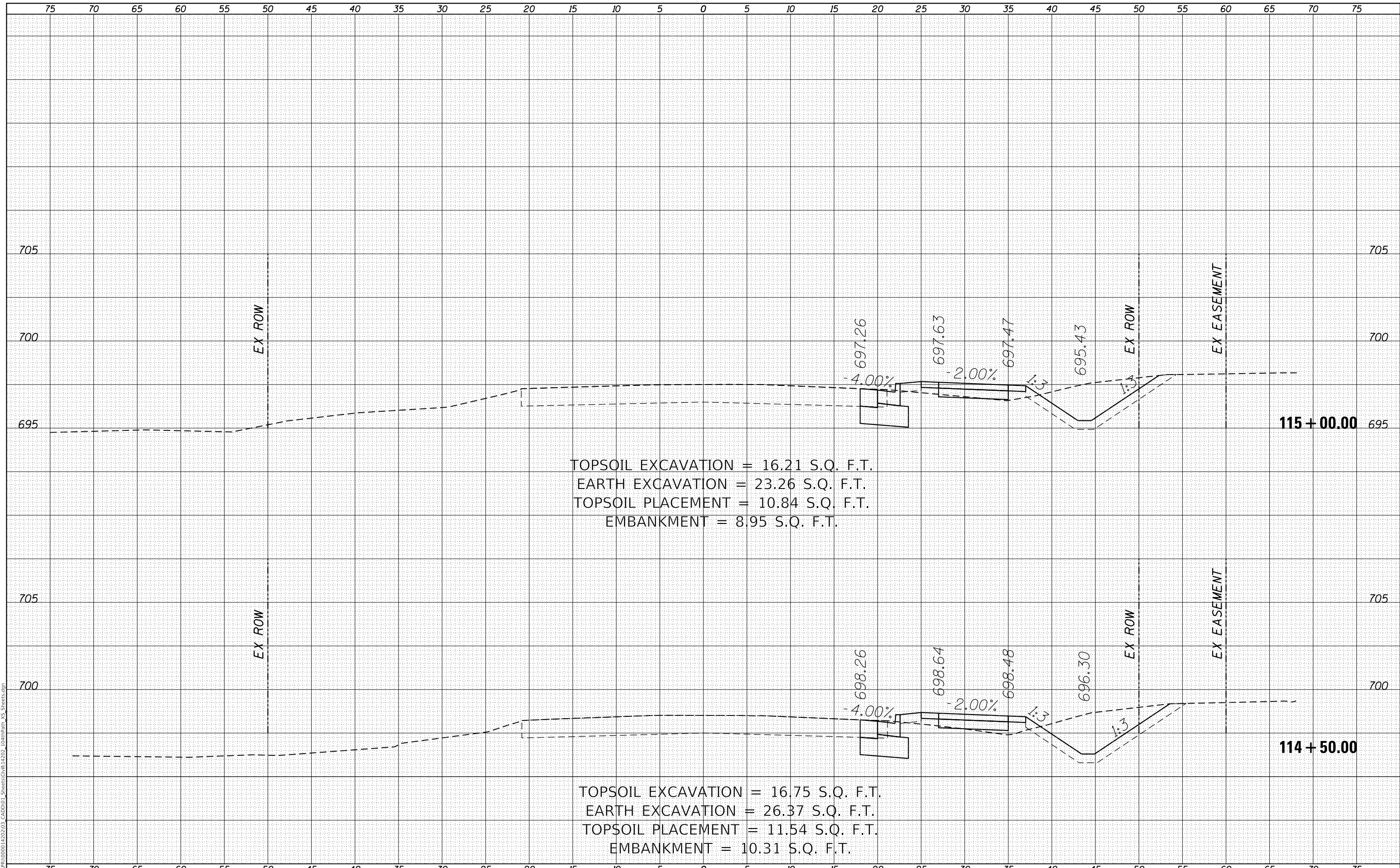
SCALE: 1"=10'H, 20'V SHEET 16 OF 32 SHEETS STA. 113+50.00 TO STA. 114+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	70
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

MODEL: Defnair
 FILE NAME: R:\CADD\1500014202\03_CADD\01_Sheets\Grid\14202_104thPath_VS_Sheets.dgn



TOPSOIL EXCAVATION = 16.21 S.Q. F.T.
 EARTH EXCAVATION = 23.26 S.Q. F.T.
 TOPSOIL PLACEMENT = 10.84 S.Q. F.T.
 EMBANKMENT = 8.95 S.Q. F.T.

TOPSOIL EXCAVATION = 16.75 S.Q. F.T.
 EARTH EXCAVATION = 26.37 S.Q. F.T.
 TOPSOIL PLACEMENT = 11.54 S.Q. F.T.
 EMBANKMENT = 10.31 S.Q. F.T.

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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

SCALE: 1"=10'H, 20'V SHEET 17 OF 32 SHEETS STA. 114+50.00 TO STA. 115+00.00

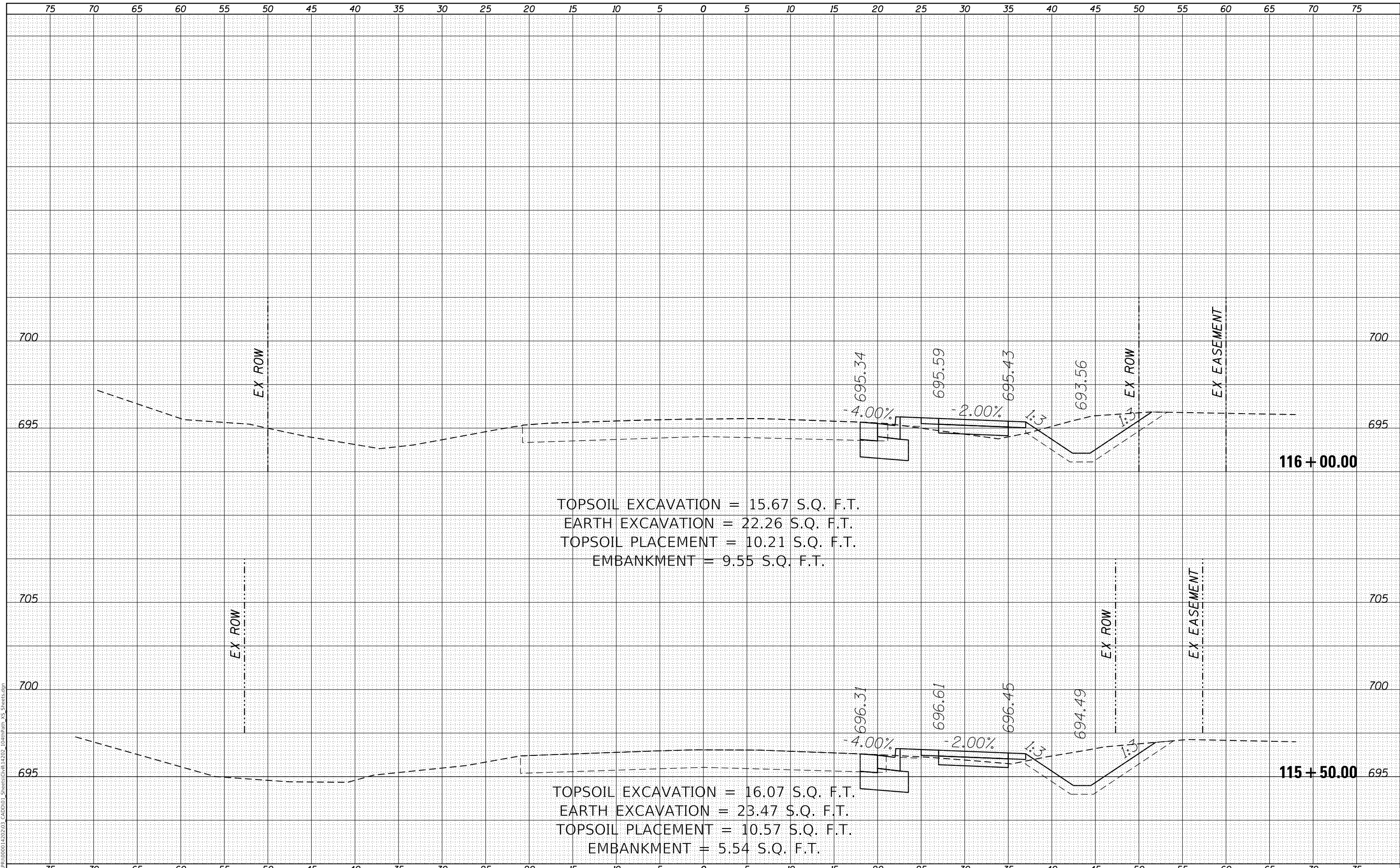
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	71
CONTRACT NO. 61H84				

ILLINOIS FED. AID PROJECT

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

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

MODEL: Defaul
 FILE NAME: R:\CHP\1000014202_03_CADD\01_Sheets\Civil\14202_104thPath_VS_Sheets.dgn



TOPSOIL EXCAVATION = 15.67 S.Q. F.T.
 EARTH EXCAVATION = 22.26 S.Q. F.T.
 TOPSOIL PLACEMENT = 10.21 S.Q. F.T.
 EMBANKMENT = 9.55 S.Q. F.T.

TOPSOIL EXCAVATION = 16.07 S.Q. F.T.
 EARTH EXCAVATION = 23.47 S.Q. F.T.
 TOPSOIL PLACEMENT = 10.57 S.Q. F.T.
 EMBANKMENT = 5.54 S.Q. F.T.

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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

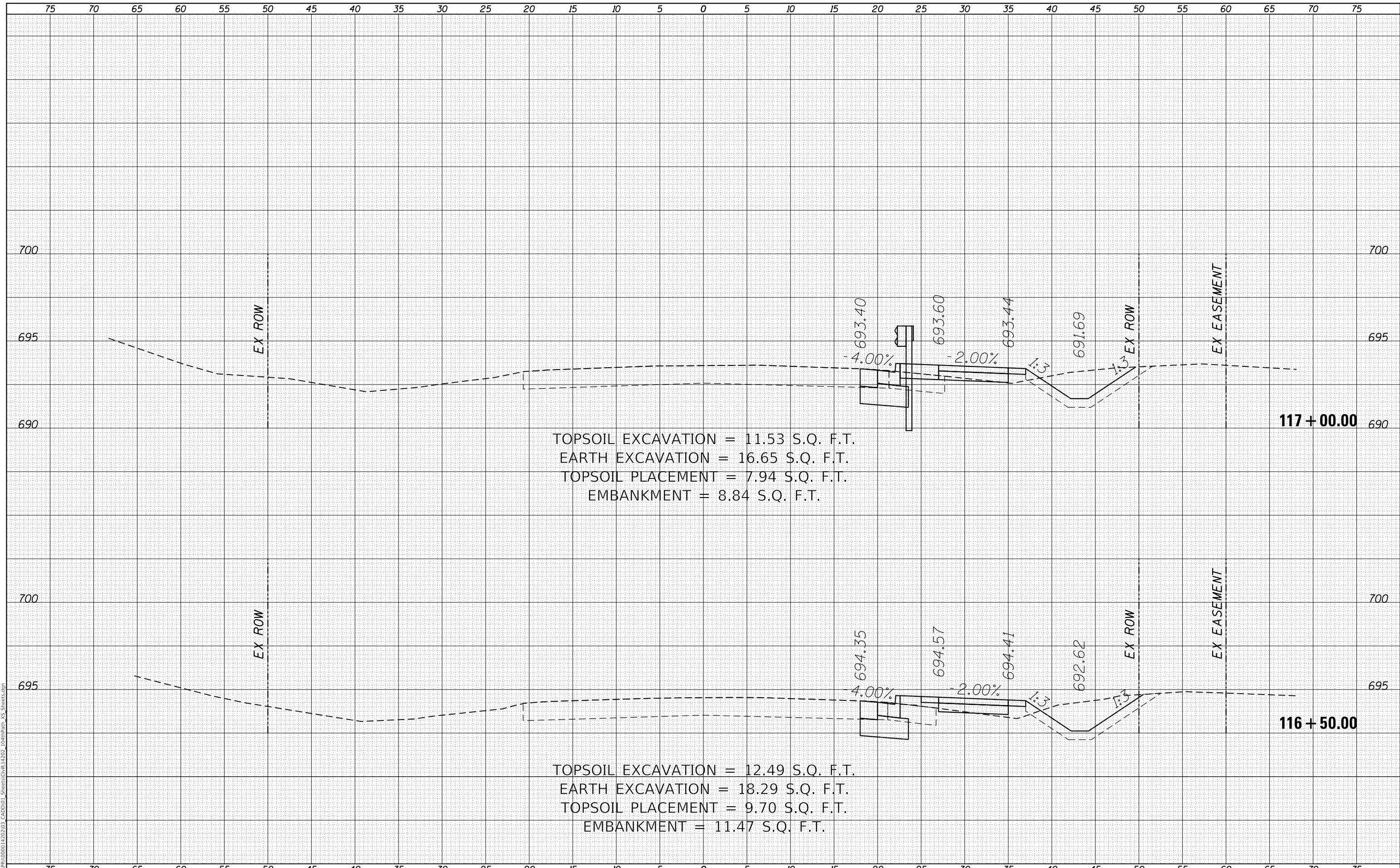
SCALE: 1"=10'H, 20'V SHEET 18 OF 32 SHEETS STA. 115+50.00 TO STA. 116+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	72
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Defn.rvt
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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

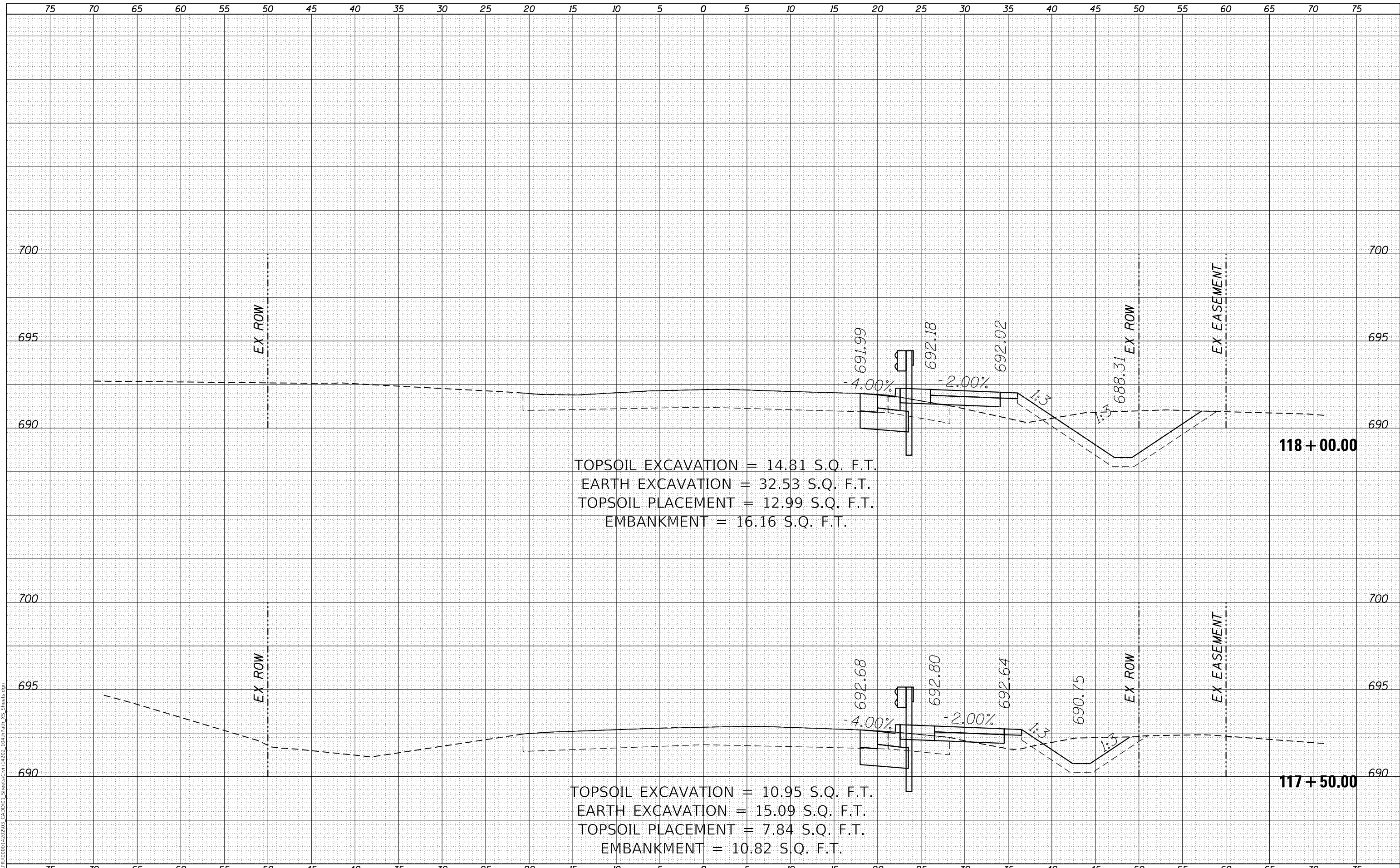
SCALE: 1"=10'H, 20'V SHEET 19 OF 32 SHEETS STA. 116+50.00 TO STA. 117+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	73
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Defaul
 FILE NAME: R:\CADD\150001\1502\03_CADD\01_Sheets\Grid\14202_104thPath_VS_Sheets.dgn



TOPSOIL EXCAVATION = 14.81 S.Q. F.T.
 EARTH EXCAVATION = 32.53 S.Q. F.T.
 TOPSOIL PLACEMENT = 12.99 S.Q. F.T.
 EMBANKMENT = 16.16 S.Q. F.T.

TOPSOIL EXCAVATION = 10.95 S.Q. F.T.
 EARTH EXCAVATION = 15.09 S.Q. F.T.
 TOPSOIL PLACEMENT = 7.84 S.Q. F.T.
 EMBANKMENT = 10.82 S.Q. F.T.

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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

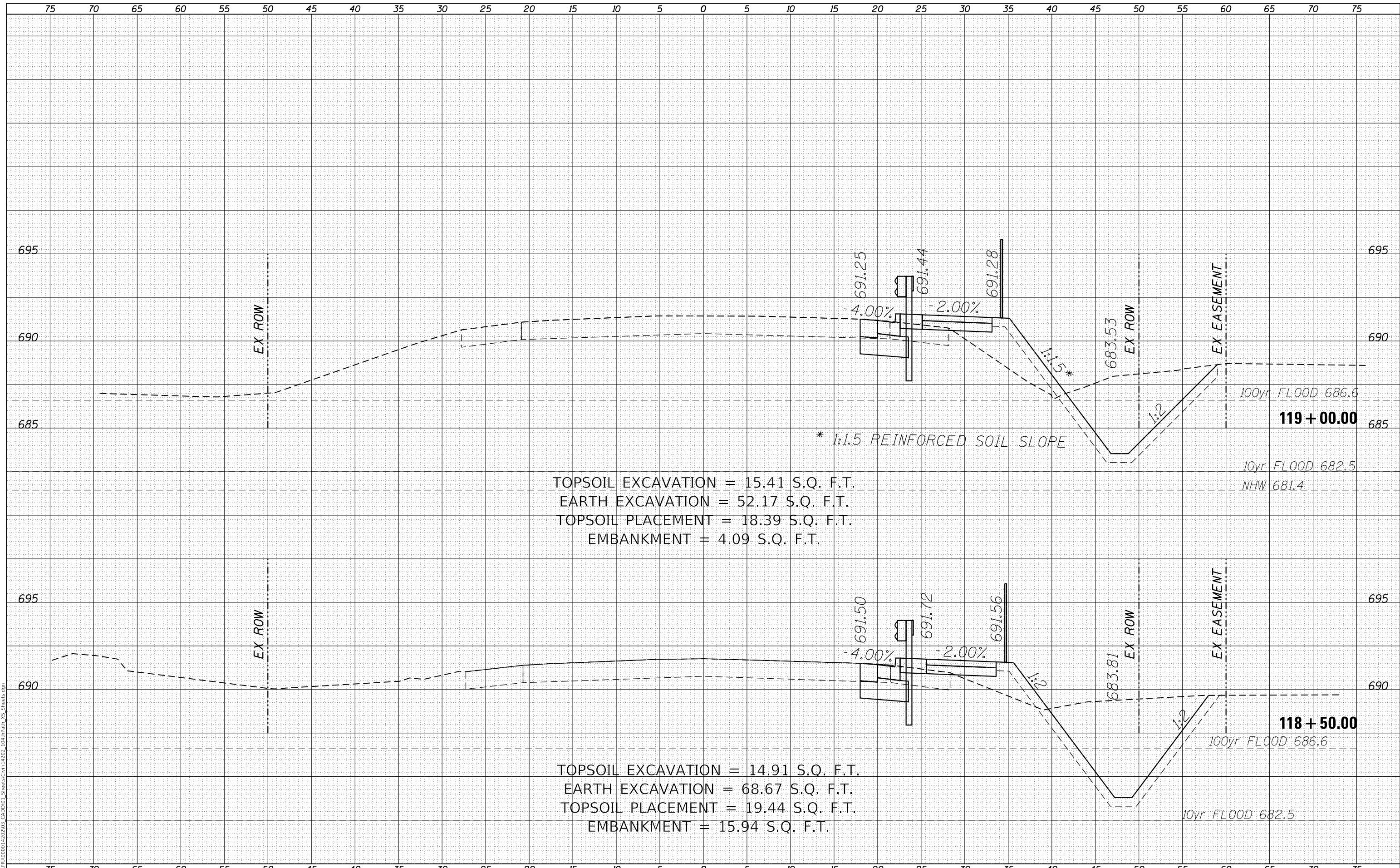
SCALE: 1"=10'H, 20'V SHEET 20 OF 32 SHEETS STA. 117+50.00 TO STA. 118+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	74
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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MODEL: Definit
 FILE NAME: R:\C:\P\100001420203_CADD\01_Sheets\Civil\14202_104thPath_VS_Sheets.dgn



TOPSOIL EXCAVATION = 15.41 S.Q. F.T.
 EARTH EXCAVATION = 52.17 S.Q. F.T.
 TOPSOIL PLACEMENT = 18.39 S.Q. F.T.
 EMBANKMENT = 4.09 S.Q. F.T.

TOPSOIL EXCAVATION = 14.91 S.Q. F.T.
 EARTH EXCAVATION = 68.67 S.Q. F.T.
 TOPSOIL PLACEMENT = 19.44 S.Q. F.T.
 EMBANKMENT = 15.94 S.Q. F.T.

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	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

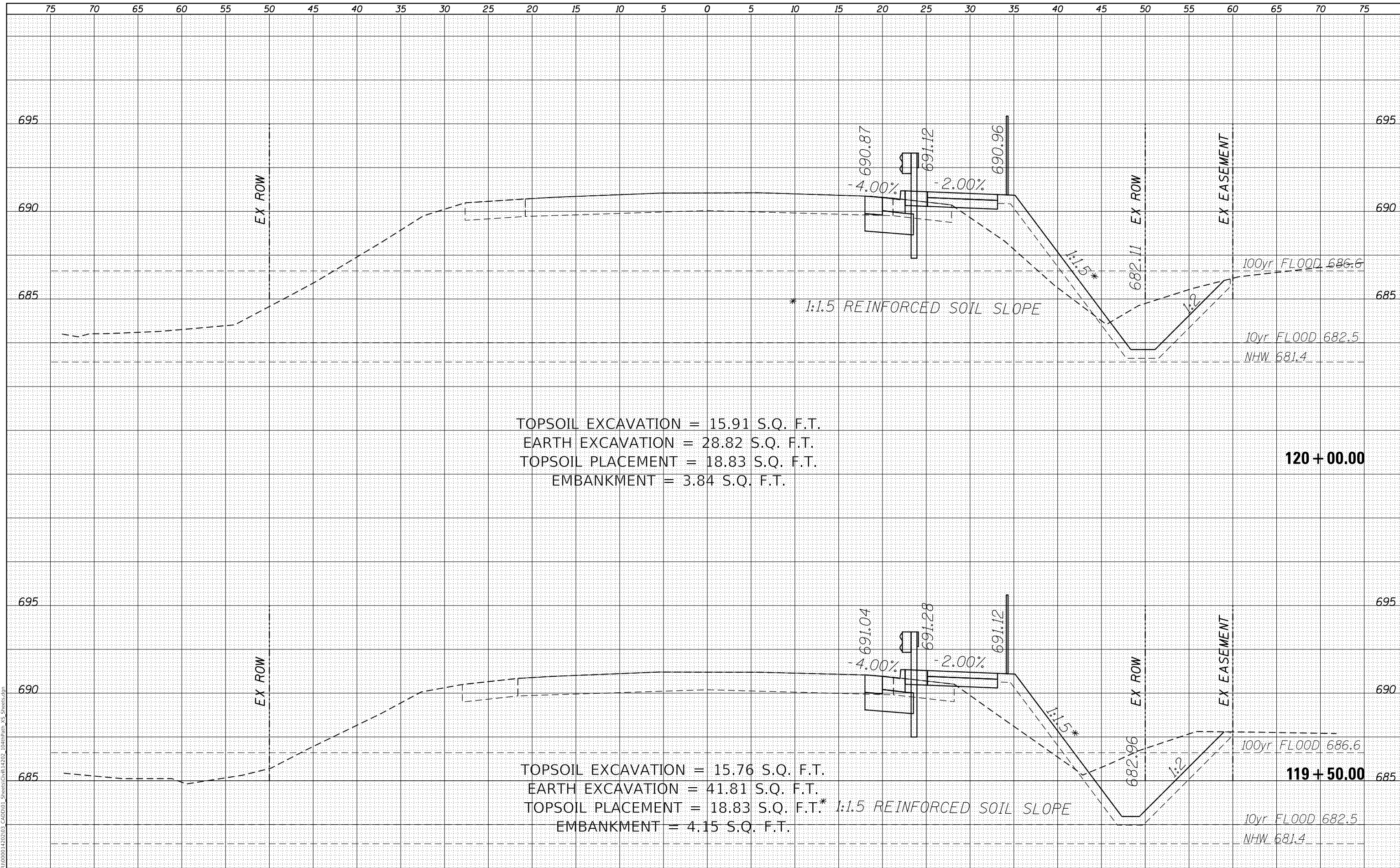
**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

SCALE: 1"=10'H, 20'V SHEET 21 OF 32 SHEETS STA. 118+50.00 TO STA. 119+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	75
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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



TOPSOIL EXCAVATION = 15.91 S.Q. F.T.
 EARTH EXCAVATION = 28.82 S.Q. F.T.
 TOPSOIL PLACEMENT = 18.83 S.Q. F.T.
 EMBANKMENT = 3.84 S.Q. F.T.

120 + 00.00

TOPSOIL EXCAVATION = 15.76 S.Q. F.T.
 EARTH EXCAVATION = 41.81 S.Q. F.T.
 TOPSOIL PLACEMENT = 18.83 S.Q. F.T.*
 EMBANKMENT = 4.15 S.Q. F.T.

119 + 50.00

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	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

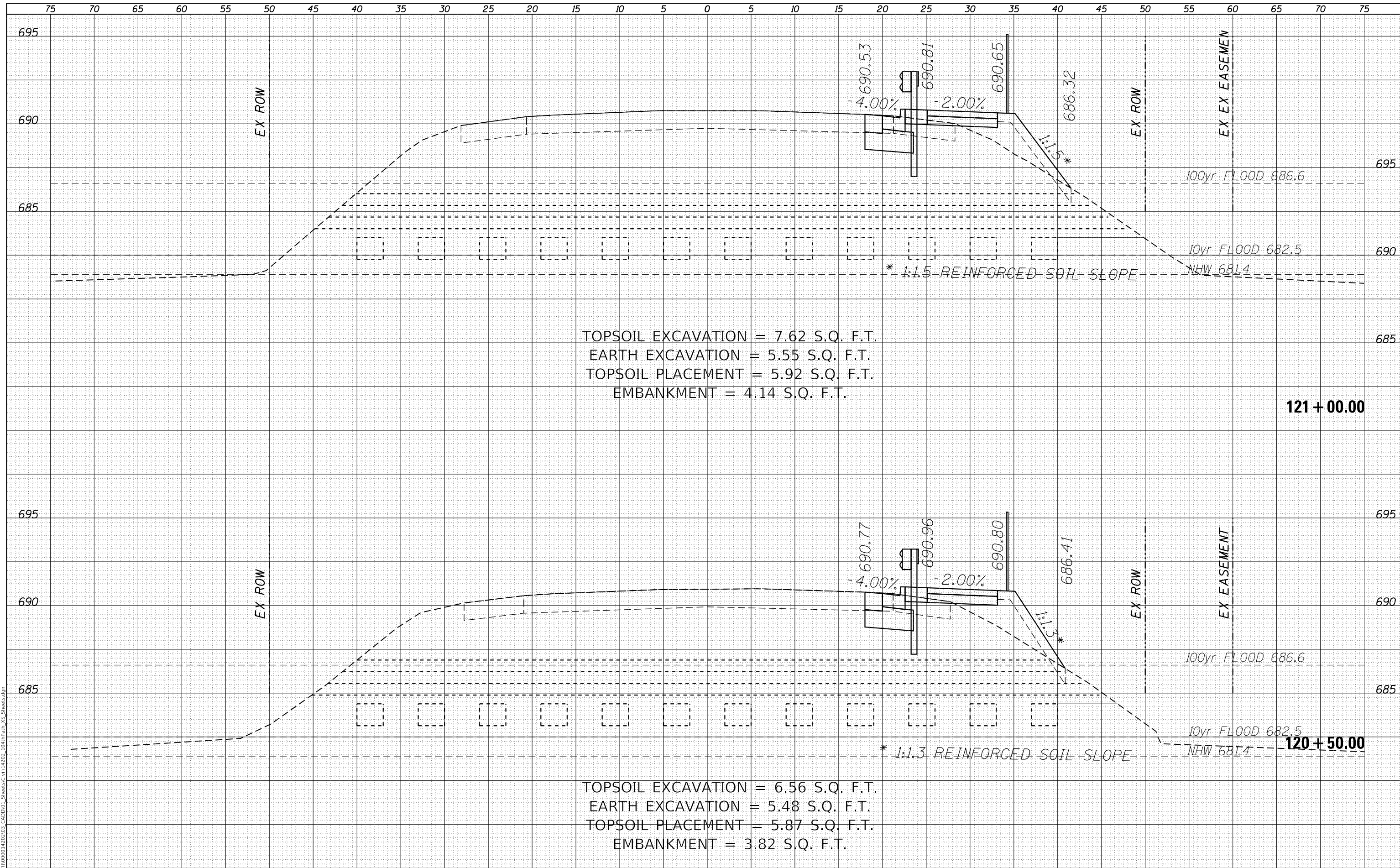
VILLAGE OF ORLAND PARK

CROSS SECTIONS	
104TH AVENUE SHARED-USE PATH	
SCALE: 1"=10'H, 20'V	SHEET 22 OF 32 SHEETS
STA. 119+50.00	TO STA. 120+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	76
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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



TOPSOIL EXCAVATION = 7.62 S.Q. F.T.
 EARTH EXCAVATION = 5.55 S.Q. F.T.
 TOPSOIL PLACEMENT = 5.92 S.Q. F.T.
 EMBANKMENT = 4.14 S.Q. F.T.

TOPSOIL EXCAVATION = 6.56 S.Q. F.T.
 EARTH EXCAVATION = 5.48 S.Q. F.T.
 TOPSOIL PLACEMENT = 5.87 S.Q. F.T.
 EMBANKMENT = 3.82 S.Q. F.T.

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USER NAME = GG	DESIGNED - GG	REVISD -
	DRAWN - GG	REVISD -
PLOT SCALE =	CHECKED - AM	REVISD -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISD -

VILLAGE OF ORLAND PARK

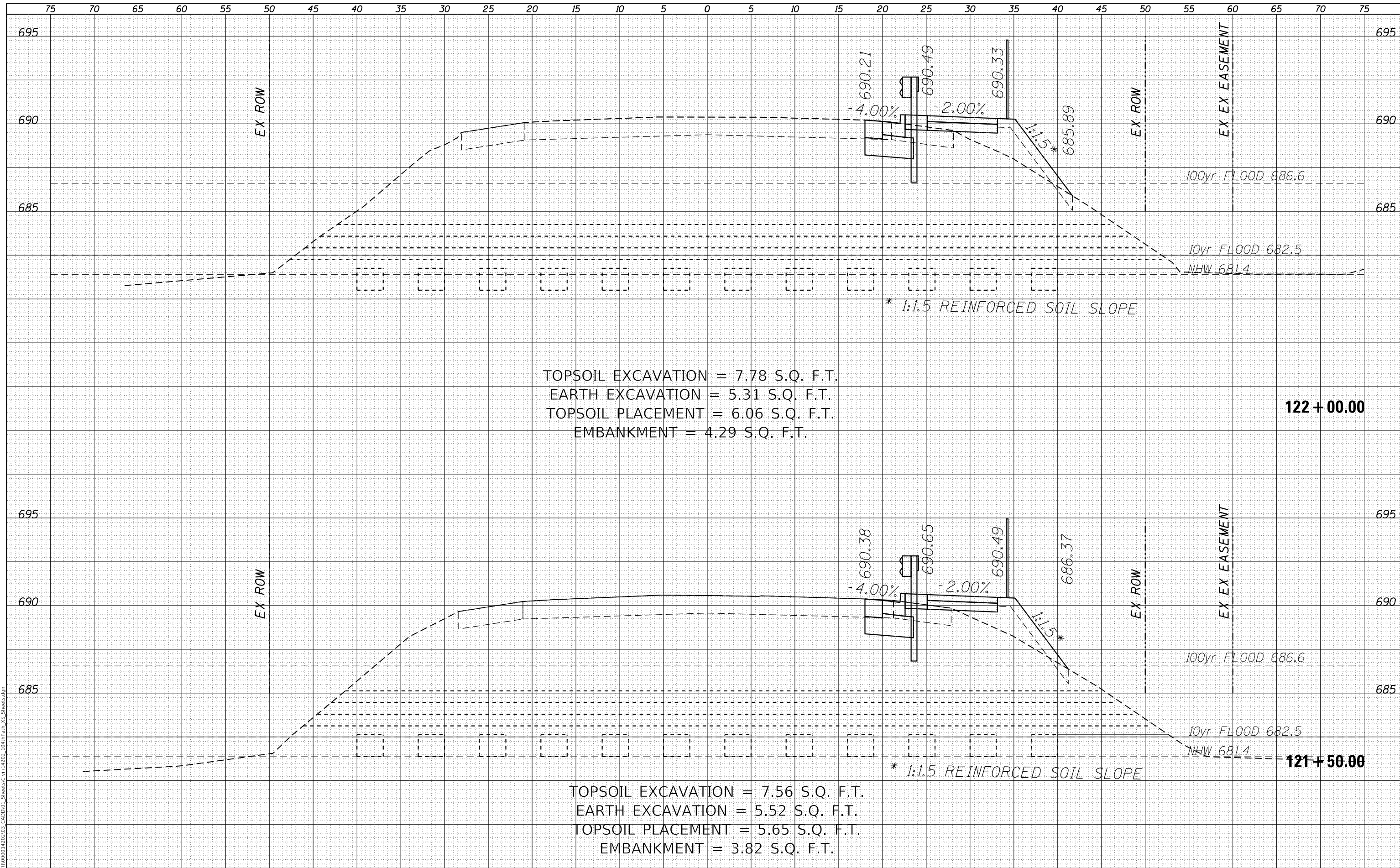
**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

SCALE: 1"=10'H, 20'V SHEET 23 OF 32 SHEETS STA. 120+50.00 TO STA. 121+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	77
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

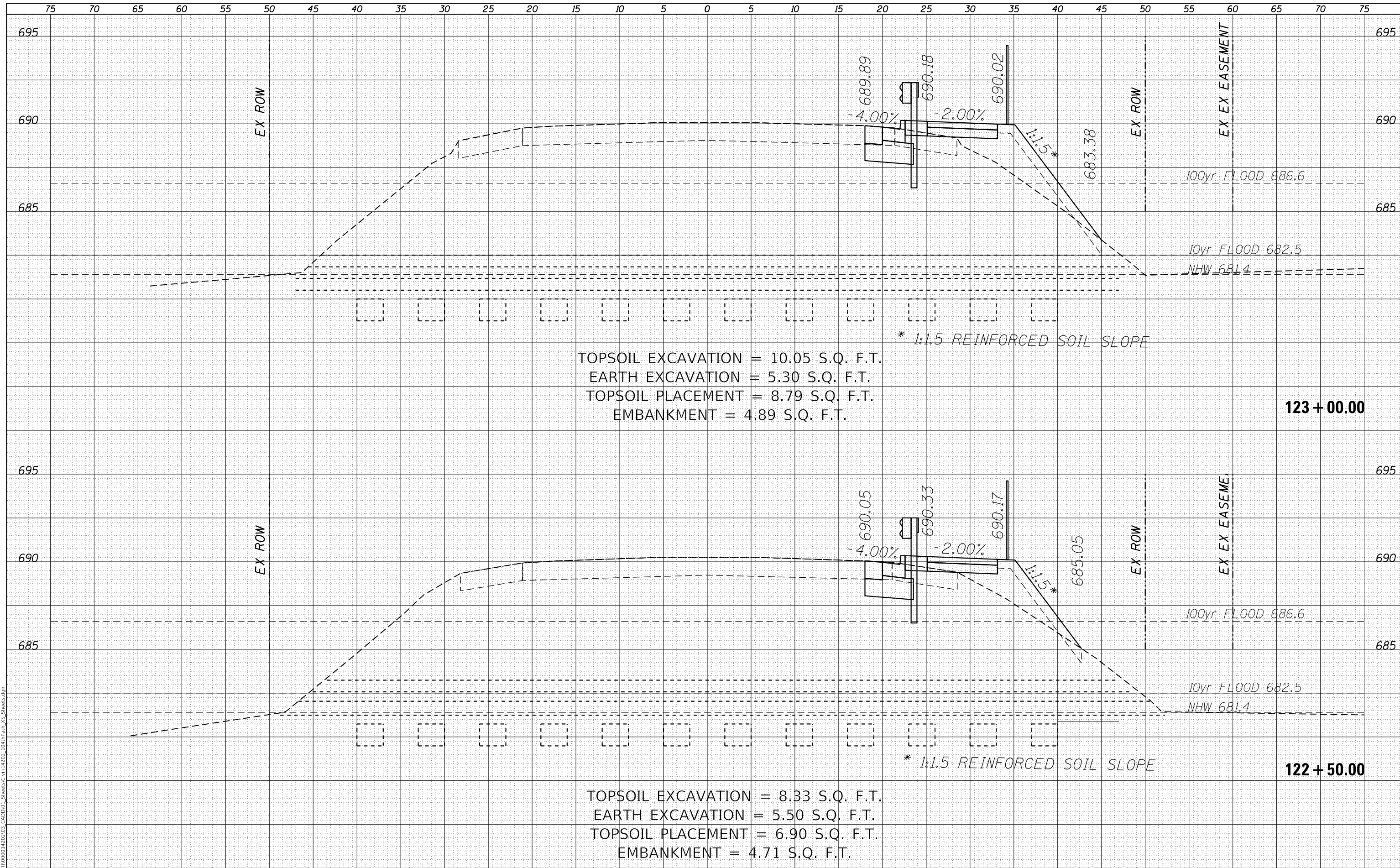
**CROSS SECTIONS
104TH AVENUE SHARED-USE PATH**

SCALE: 1"=10'H, 20'V SHEET 24 OF 32 SHEETS STA. 121+50.00 TO STA. 122+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	78
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

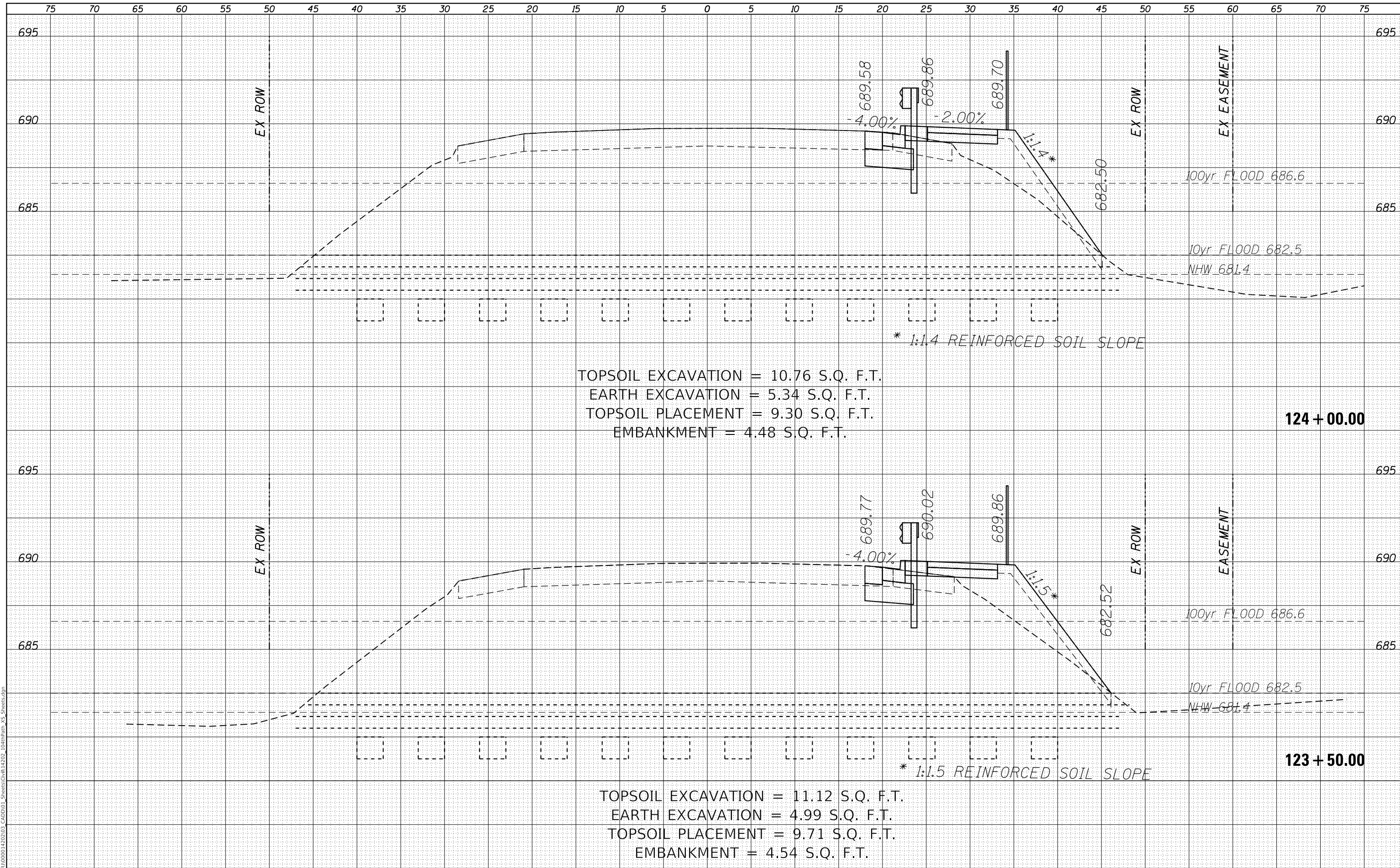
VILLAGE OF ORLAND PARK

CROSS SECTIONS	
104TH AVENUE SHARED-USE PATH	
SCALE: 1"=10'H, 20'V	SHEET 25 OF 32 SHEETS
STA. 122+50.00	TO STA. 123+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	79
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



TOPSOIL EXCAVATION = 10.76 S.Q. F.T.
 EARTH EXCAVATION = 5.34 S.Q. F.T.
 TOPSOIL PLACEMENT = 9.30 S.Q. F.T.
 EMBANKMENT = 4.48 S.Q. F.T.

124 + 00.00

TOPSOIL EXCAVATION = 11.12 S.Q. F.T.
 EARTH EXCAVATION = 4.99 S.Q. F.T.
 TOPSOIL PLACEMENT = 9.71 S.Q. F.T.
 EMBANKMENT = 4.54 S.Q. F.T.

123 + 50.00

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USER NAME = GG	DESIGNED - GG	REVISD -
	DRAWN - GG	REVISD -
PLOT SCALE =	CHECKED - AM	REVISD -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISD -

VILLAGE OF ORLAND PARK

CROSS SECTIONS
104TH AVENUE SHARED-USE PATH

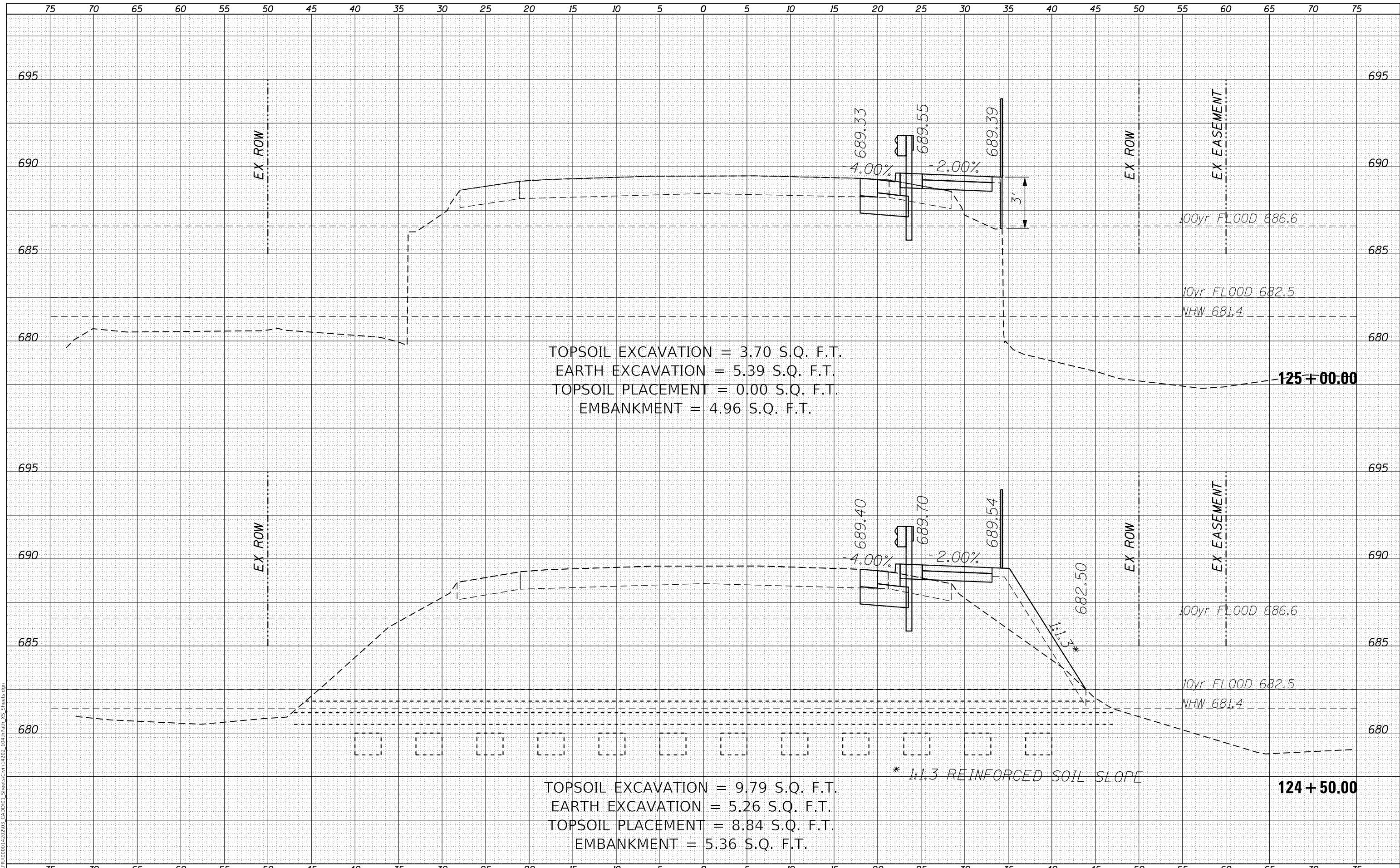
SCALE: 1"=10'H, 20'V SHEET 26 OF 32 SHEETS STA. 123+50.00 TO STA. 124+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	80
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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MODEL: Defaul
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TOPSOIL EXCAVATION = 3.70 S.Q. F.T.
 EARTH EXCAVATION = 5.39 S.Q. F.T.
 TOPSOIL PLACEMENT = 0.00 S.Q. F.T.
 EMBANKMENT = 4.96 S.Q. F.T.

TOPSOIL EXCAVATION = 9.79 S.Q. F.T.
 EARTH EXCAVATION = 5.26 S.Q. F.T.
 TOPSOIL PLACEMENT = 8.84 S.Q. F.T.
 EMBANKMENT = 5.36 S.Q. F.T.

* 1:1.3 REINFORCED SOIL SLOPE

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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

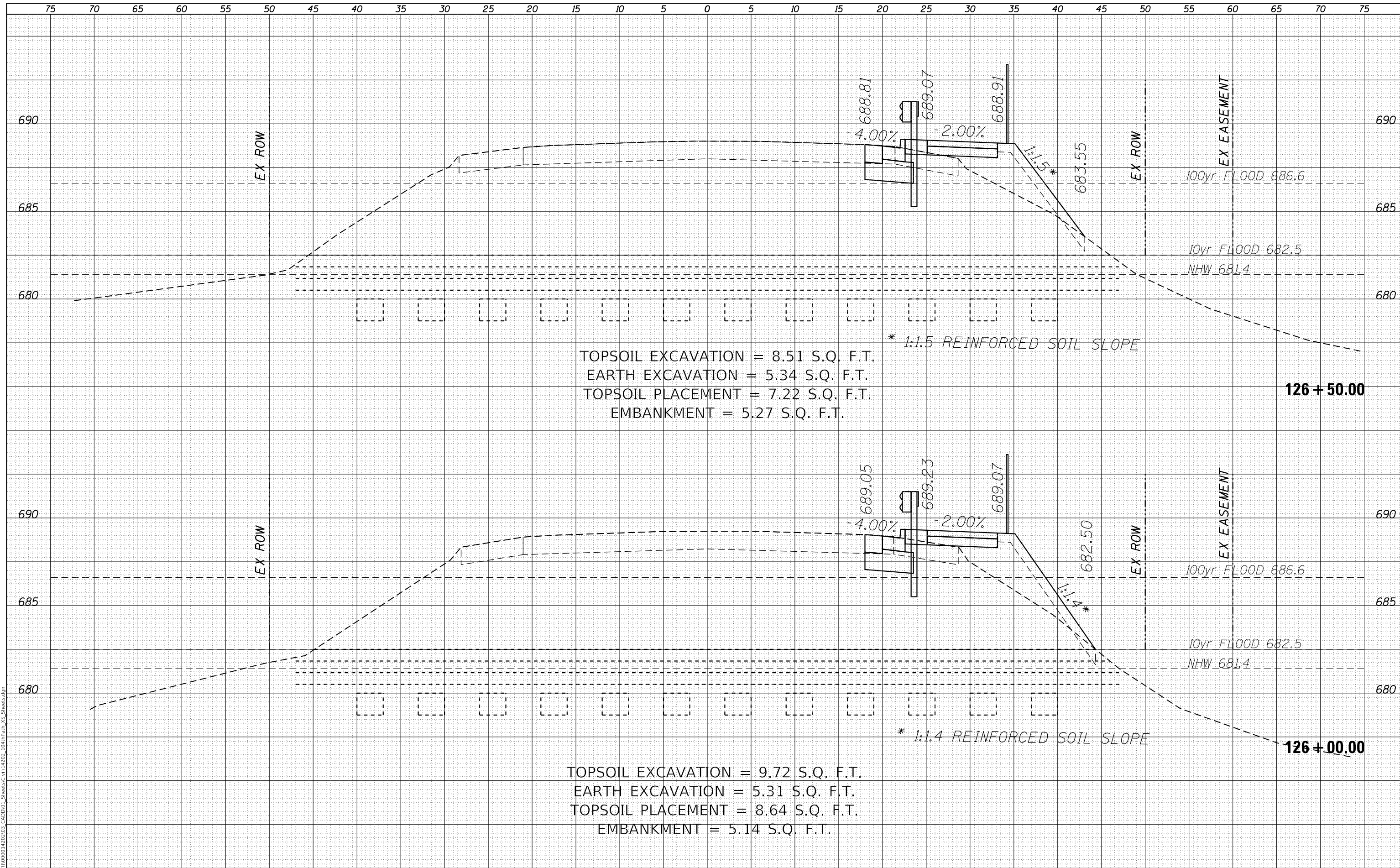
**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

SCALE: 1"=10'H, 20'V SHEET 27 OF 32 SHEETS STA. 124+50.00 TO STA. 125+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	81
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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



TOPSOIL EXCAVATION = 8.51 S.Q. F.T.
 EARTH EXCAVATION = 5.34 S.Q. F.T.
 TOPSOIL PLACEMENT = 7.22 S.Q. F.T.
 EMBANKMENT = 5.27 S.Q. F.T.

* 1:1.5 REINFORCED SOIL SLOPE

126+50.00

TOPSOIL EXCAVATION = 9.72 S.Q. F.T.
 EARTH EXCAVATION = 5.31 S.Q. F.T.
 TOPSOIL PLACEMENT = 8.64 S.Q. F.T.
 EMBANKMENT = 5.14 S.Q. F.T.

* 1:1.4 REINFORCED SOIL SLOPE

126+00.00

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USER NAME = GG	DESIGNED - GG	REVISD -
	DRAWN - GG	REVISD -
PLOT SCALE =	CHECKED - AM	REVISD -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISD -

VILLAGE OF ORLAND PARK

CROSS SECTIONS
104TH AVENUE SHARED-USE PATH

SCALE: 1"=10'H, 20'V SHEET 29 OF 32 SHEETS STA. 126+00.00 TO STA. 126+50.00

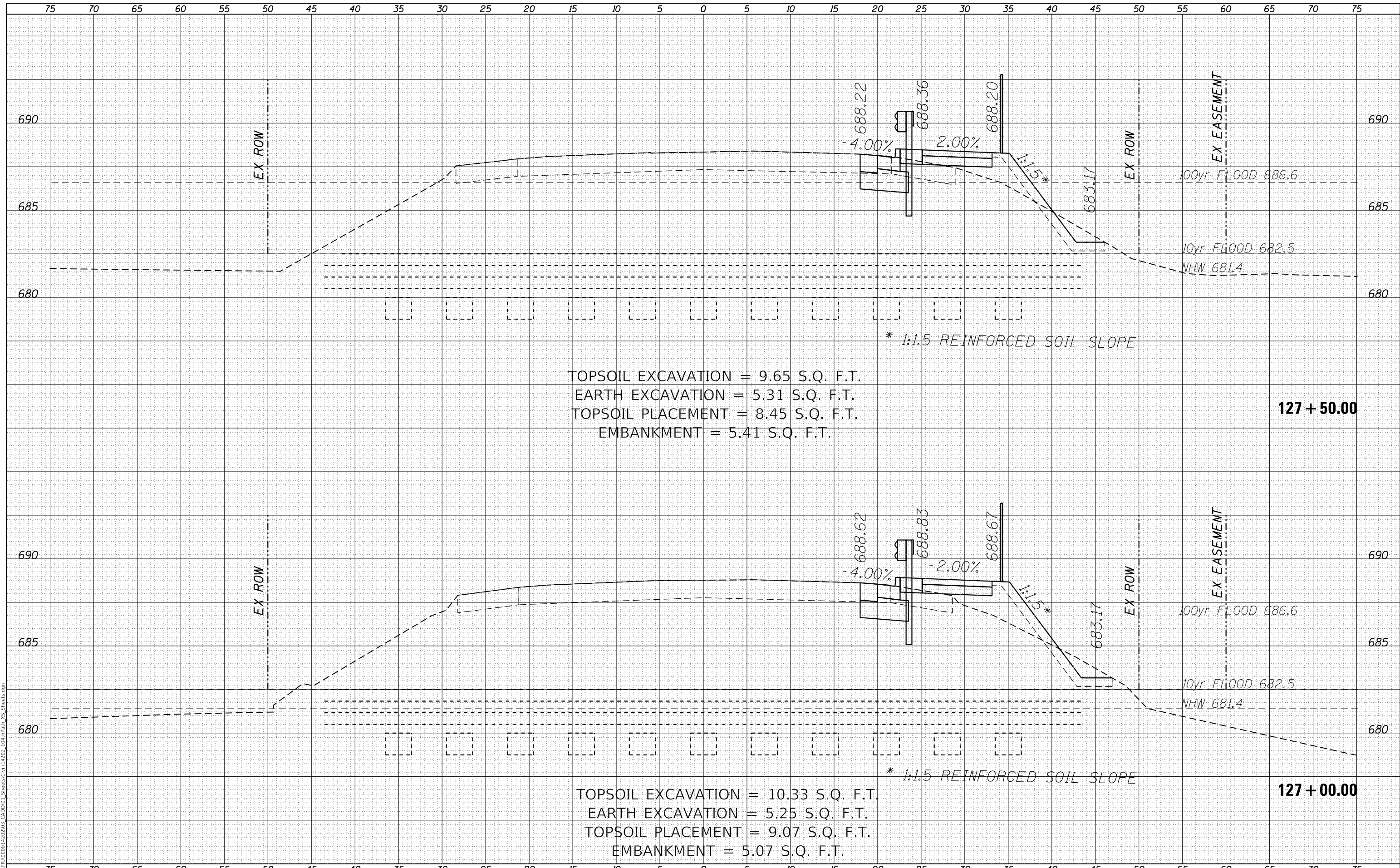
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	83
CONTRACT NO. 61H84				

ILLINOIS FED. AID PROJECT

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
FINAL SURVEY	
NOTE BOOK	
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DATE	
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TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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MODEL: Definit
 FILE NAME: R:\CADD\1000014202\03_CADD\01_Sheets\Civil\14202_104thPath_VS_Sheets.dgn



TOPSOIL EXCAVATION = 9.65 S.Q. F.T.
 EARTH EXCAVATION = 5.31 S.Q. F.T.
 TOPSOIL PLACEMENT = 8.45 S.Q. F.T.
 EMBANKMENT = 5.41 S.Q. F.T.

TOPSOIL EXCAVATION = 10.33 S.Q. F.T.
 EARTH EXCAVATION = 5.25 S.Q. F.T.
 TOPSOIL PLACEMENT = 9.07 S.Q. F.T.
 EMBANKMENT = 5.07 S.Q. F.T.

* 1:1.5 REINFORCED SOIL SLOPE

* 1:1.5 REINFORCED SOIL SLOPE

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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

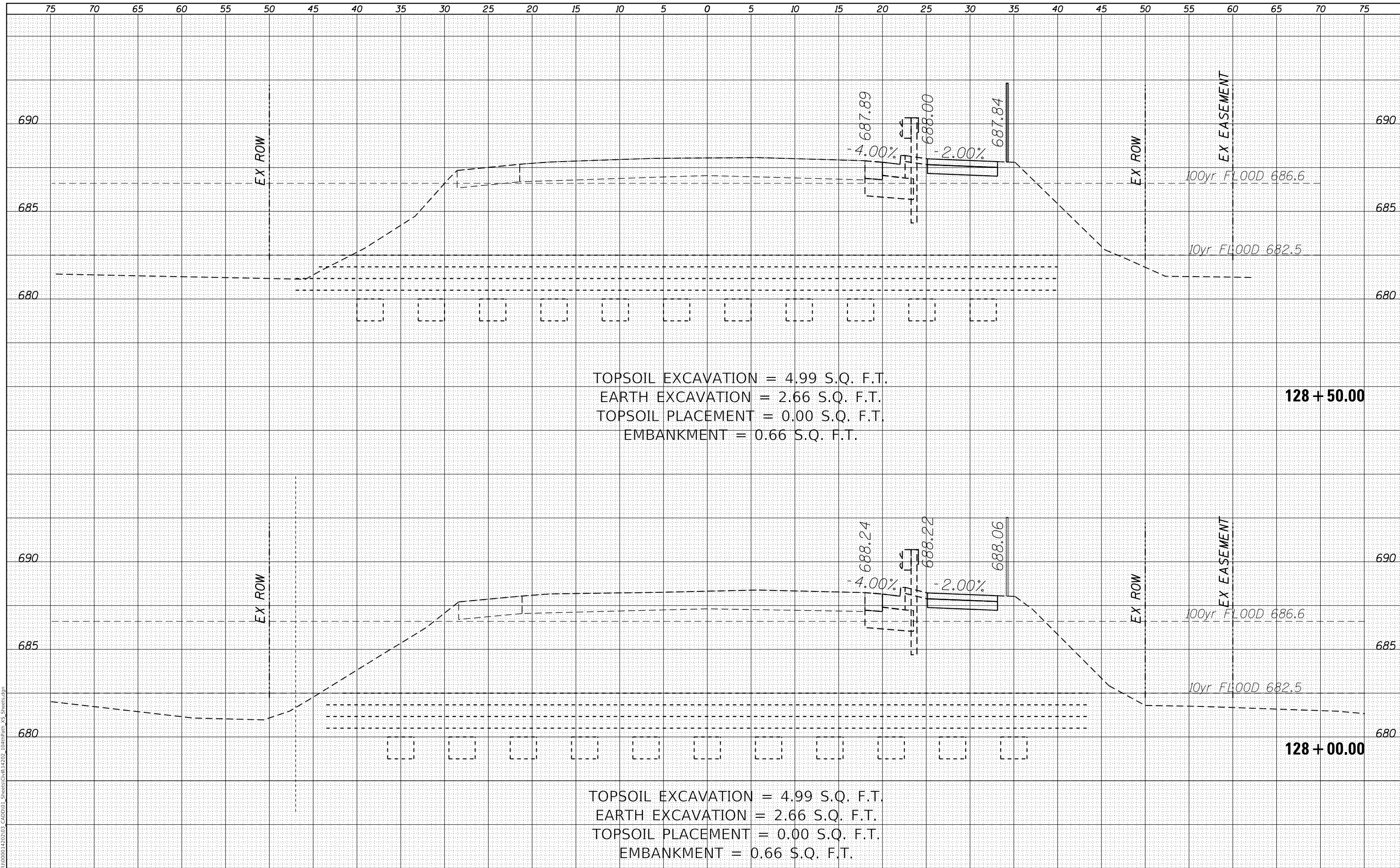
**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

SCALE: 1"=10'H, 20'V SHEET 30 OF 32 SHEETS STA. 127+00.00 TO STA. 127+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	84
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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



TOPSOIL EXCAVATION = 4.99 S.Q. F.T.
 EARTH EXCAVATION = 2.66 S.Q. F.T.
 TOPSOIL PLACEMENT = 0.00 S.Q. F.T.
 EMBANKMENT = 0.66 S.Q. F.T.

TOPSOIL EXCAVATION = 4.99 S.Q. F.T.
 EARTH EXCAVATION = 2.66 S.Q. F.T.
 TOPSOIL PLACEMENT = 0.00 S.Q. F.T.
 EMBANKMENT = 0.66 S.Q. F.T.

LOCHNER
 CONSULTING ENGINEERS & PLANNERS
 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606
 312-372-3011 (P) / 312-372-5974 (F)

USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

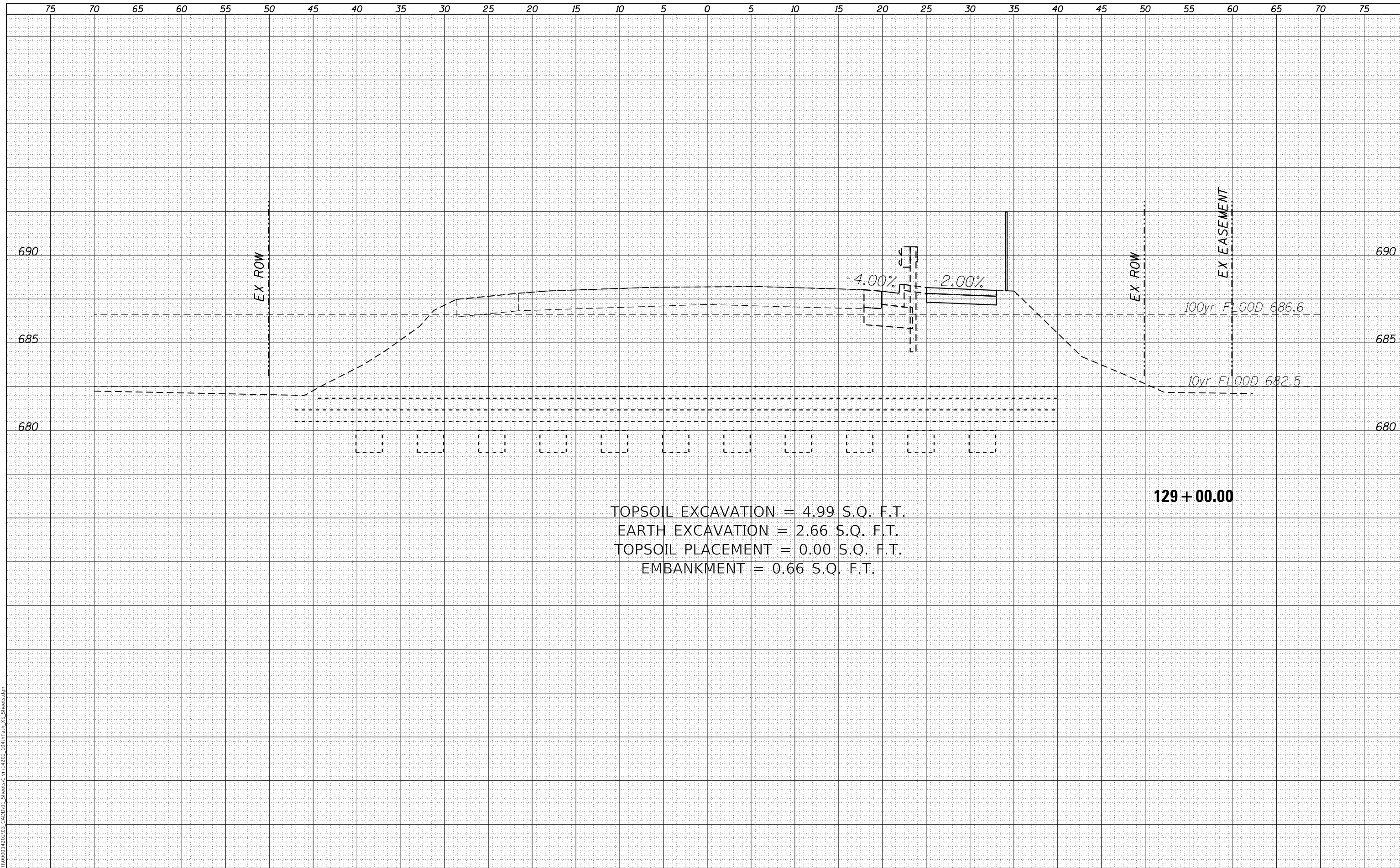
CROSS SECTIONS
104TH AVENUE SHARED-USE PATH

SCALE: 1"=10'H, 20'V SHEET 31 OF 32 SHEETS STA. 128+00.00 TO STA. 128+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	85
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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



TOPSOIL EXCAVATION = 4.99 S.Q. F.T.
 EARTH EXCAVATION = 2.66 S.Q. F.T.
 TOPSOIL PLACEMENT = 0.00 S.Q. F.T.
 EMBANKMENT = 0.66 S.Q. F.T.

129 + 00.00

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USER NAME = GG	DESIGNED - GG	REVISED -
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PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 10/26/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

CROSS SECTIONS
104TH AVENUE SHARED-USE PATH

SCALE: 1"=10'H, 20'V SHEET 32 OF 32 SHEETS STA. 129+00.00 TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	86	86
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				