

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	1
		ILLINOIS	CONTRACT NO 61H84	

06/17/2022 LETTING ITEM 187

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

**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**



LOCATION OF SECTION INDICATED THUS: - [shaded box] -

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

IL RTE 74 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 MPH

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	APRIL 8, 2022 DATE
	<i>Debra McKenna</i> SIGNATURE VILLAGE OF ORLAND PARK, VILLAGE MANAGER
PASSED	APRIL 18, 2022 DATE
	<i>C. P. [Signature]</i> SIGNATURE DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	APRIL 18, 2022 DATE
	<i>Jose [Signature]</i> SIGNATURE REGIONAL ENGINEER

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OF THE STATE OF ILLINOIS**

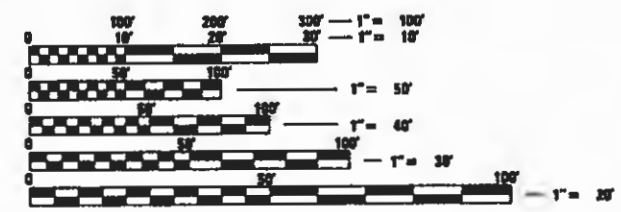
FOR INDEX OF SHEETS, SEE SHEET NO. 2

H.W. LOCHNER, INC.
ANDREW W. MCKENNA, P.E.
#062-053651
DATE: 01-24-2022
APPLIES TO
SHEET 1 - 38, 42 - 84
EXPIRATION DATE: 11/30/2023

Andrew McKenna

H.W. LOCHNER, INC.
JIANGONG HONG, S.E.
#081-006053
DATE: 01-24-2022
APPLIES TO
SHEET 39 - 41
EXPIRATION DATE: 11/30/2022

Robert Hong

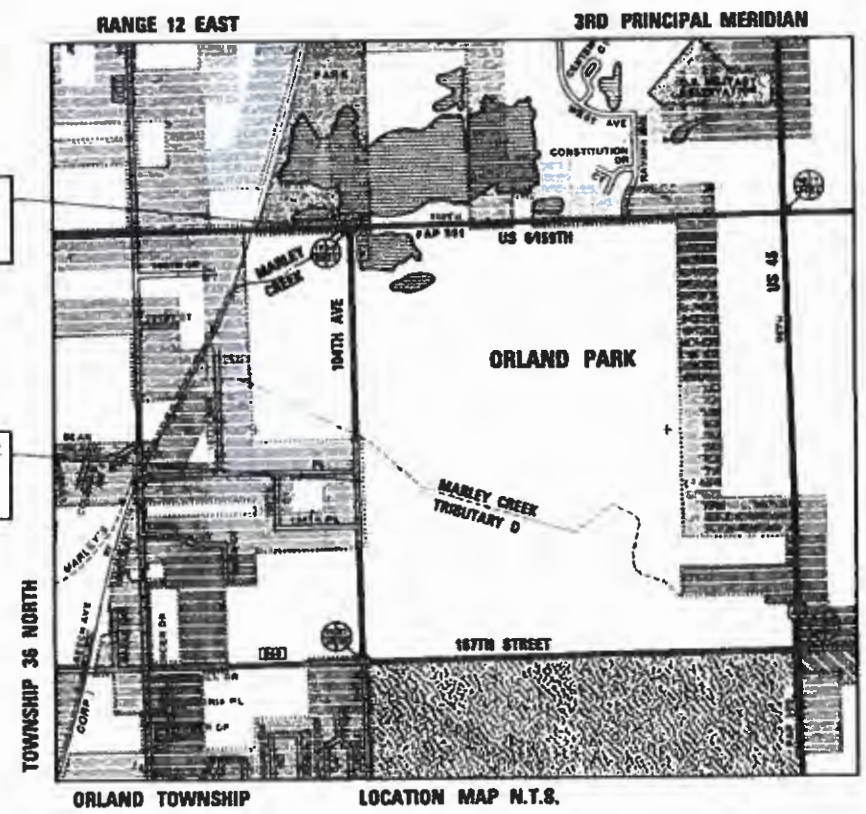


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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



LOCHNER
H. W. LOCHNER, INC.
225 WEST WASHINGTON STREET
12 TH FLOOR
CHICAGO, ILLINOIS 60608

GROSS AND NET LENGTH = 3057.00 FT. = 0.579 MILE

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

CONTRACT NO. 61H84

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 = 4/13/2022	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	84	3
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SHARED-USE PATH SIDEWALK
					0028
					80% FED 20% 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	2780	2780
*	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
					80% FED 20% 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	388	388
	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	222	222
	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
 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 = 4/6/2022	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.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	4
CONTRACT NO. 61H84			ILLINOIS FED. AID PROJECT	

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SHARED-USE PATH SIDEWALK
					0028
					70% FED 30% 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	683	683
	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
					70% FED 30% 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
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 = 5/5/2022	CHECKED - AM	REVISED -
	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

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

F.A.U. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	5
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SHARED-USE PATH SIDEWALK
					0028
					80% FED 20% VOP
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	2	2
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL. MO.	6	6
	67100100	MOBILIZATION	L SUM	1	1
	70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	5475	5475
	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
					80% FED 20% VOP
*	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	1216	1216
	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
Δ	Z0076600	TRAINEES	HOURL	500	500
Δ	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOURL	500	500

Δ 0042

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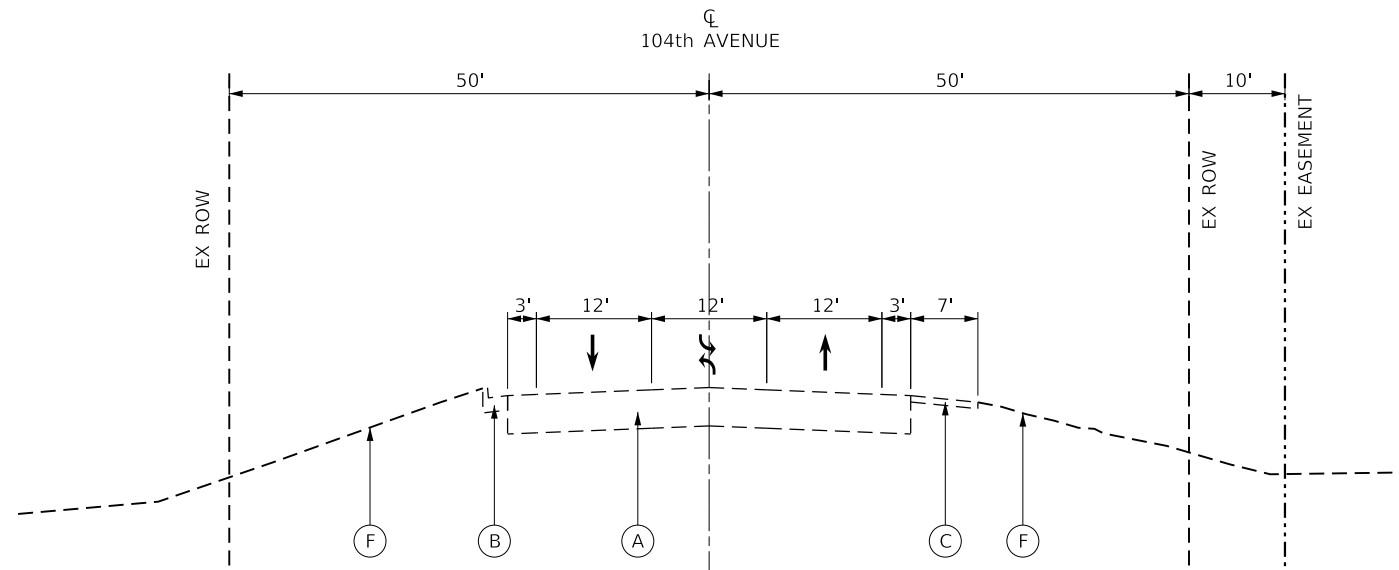
LOCHNER
 CONSULTING ENGINEERS & PLANNERS
 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606
 312-372-3011 (P) / 312-372-5974 (F)

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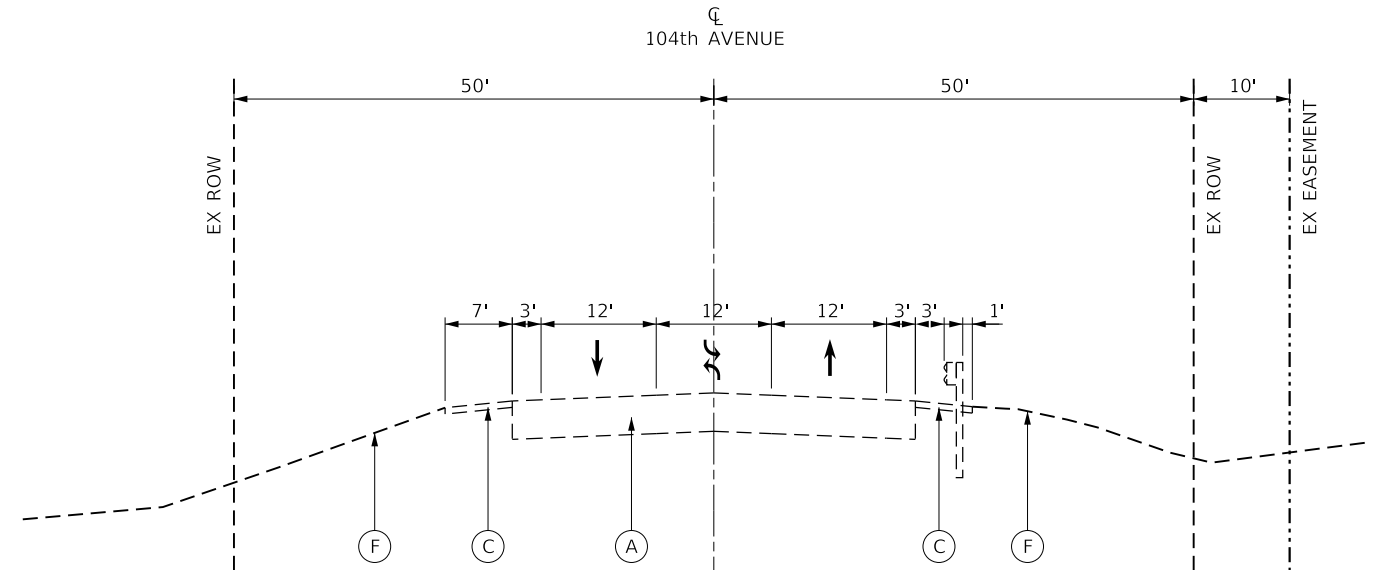
VILLAGE OF ORLAND PARK

SUMMARY OF QUANTITIES
104TH AVENUE SHARED-USE PATH

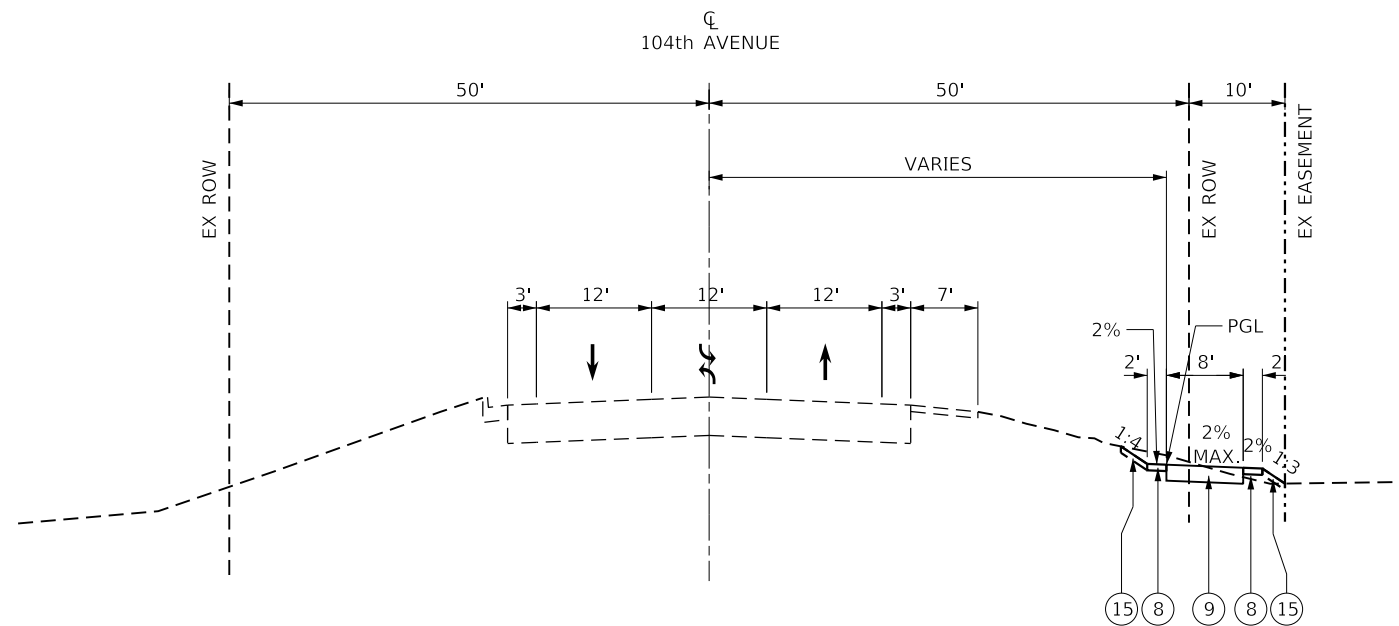
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	B4	6
SCALE:			SHEET 3 OF 3 SHEETS STA. TO STA.	
(ILLINOIS) FED. AID PROJECT CONTRACT NO. 61H84				



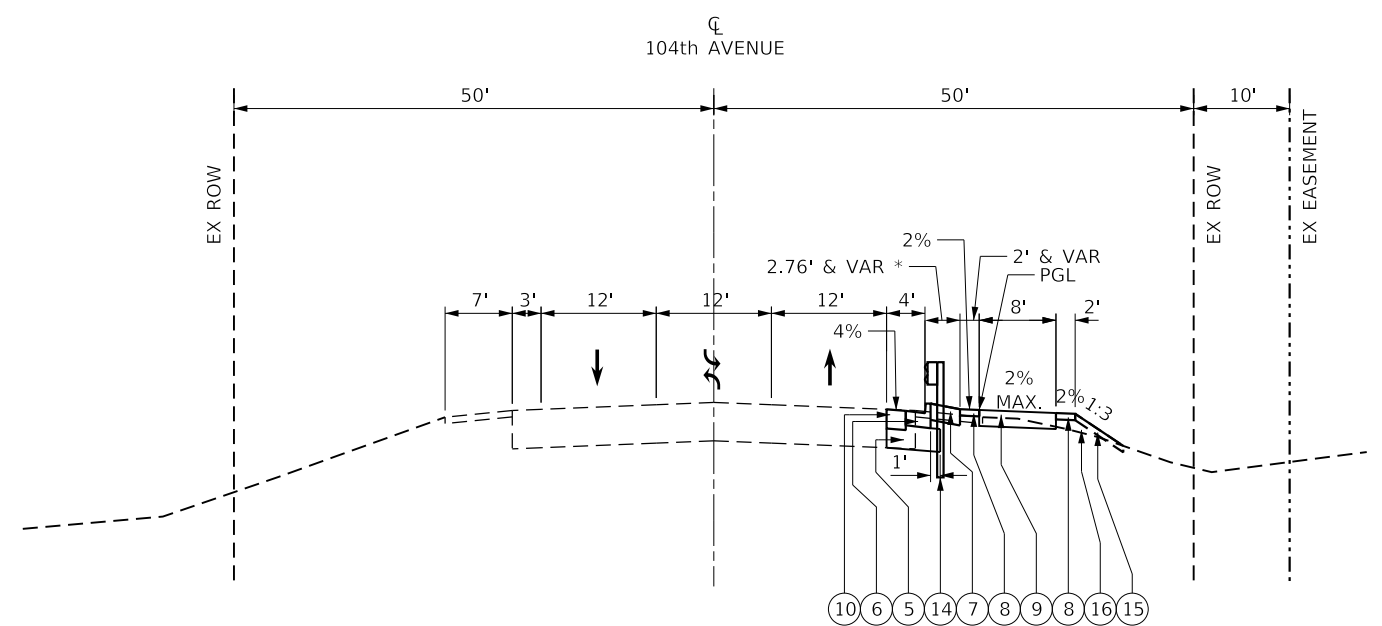
EXISTING TYPICAL SECTION
STA 99+00 TO 103+44



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.

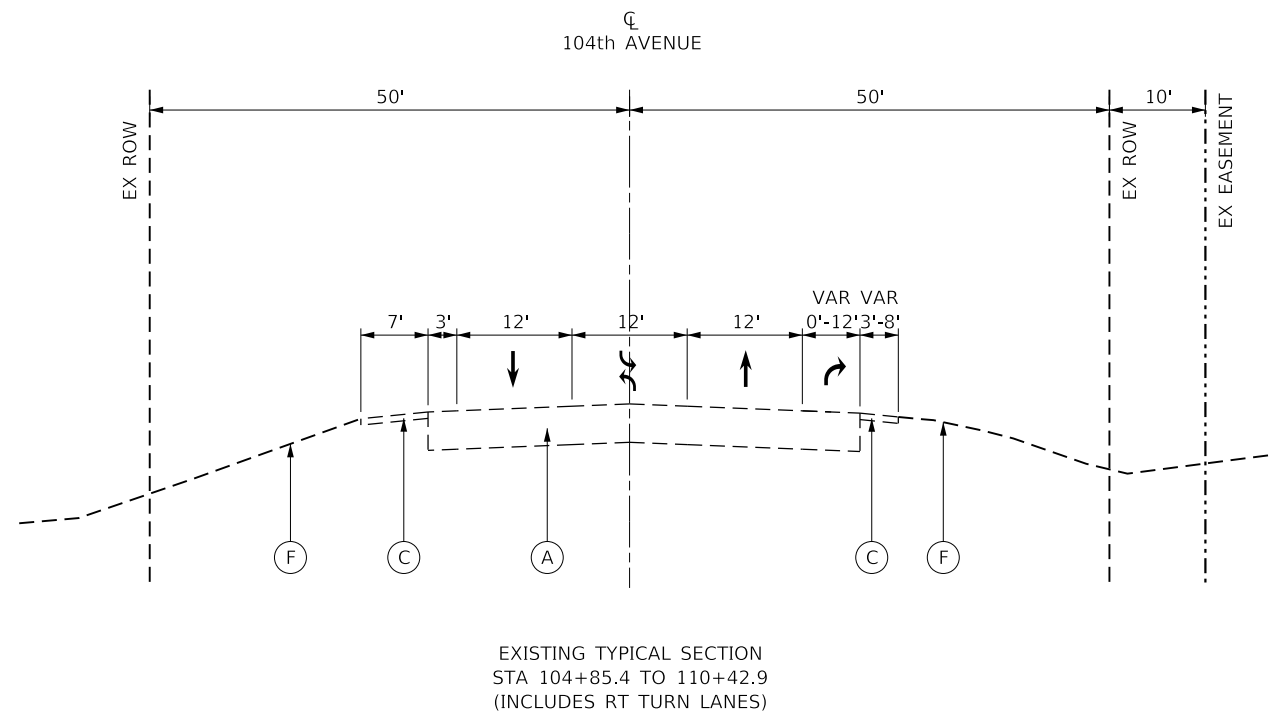
PROPOSED LEGEND

- (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)

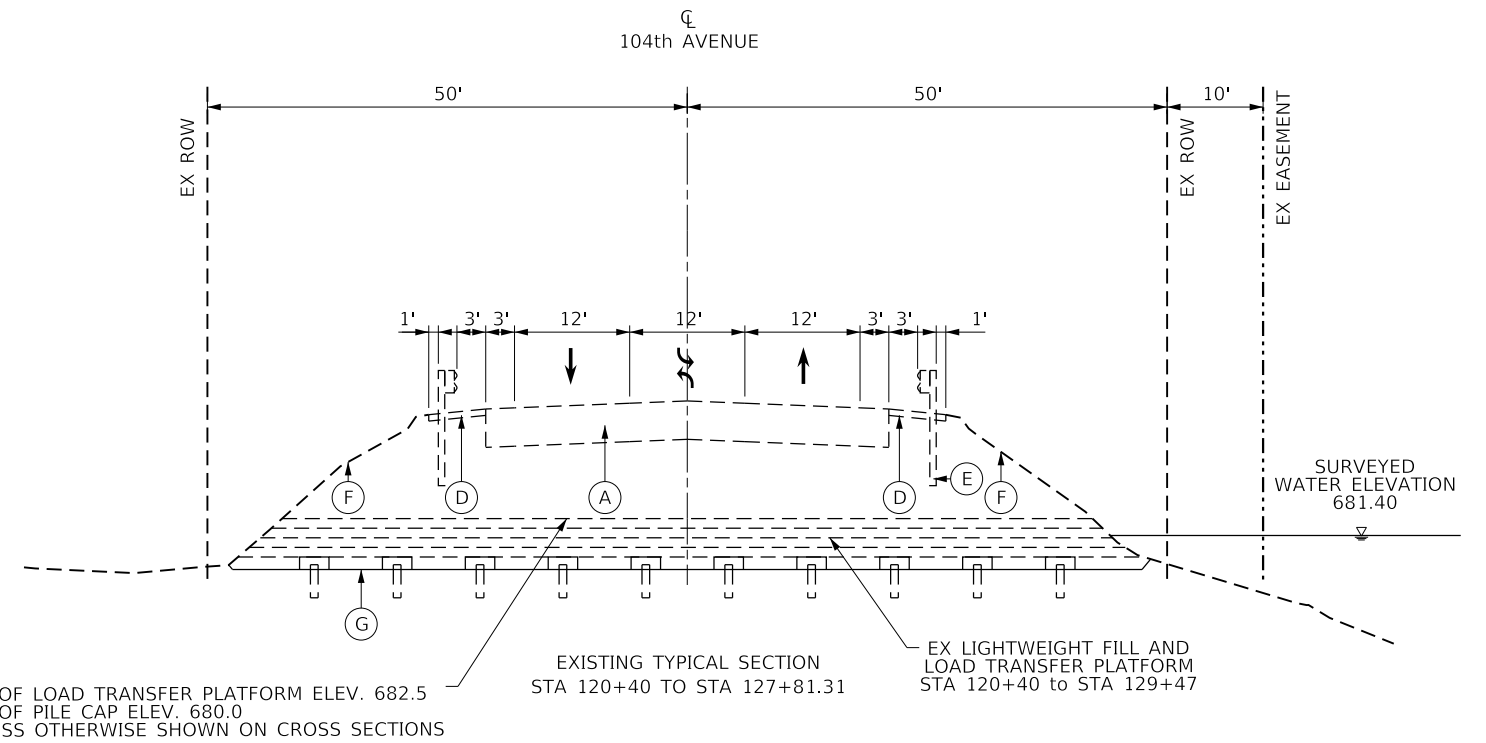
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PLOT SCALE =	DRAWN - GG	REVISED -
PLOT DATE = 4/5/2022	CHECKED - AM	REVISED -
	DATE - 4/6/2022	REVISED -

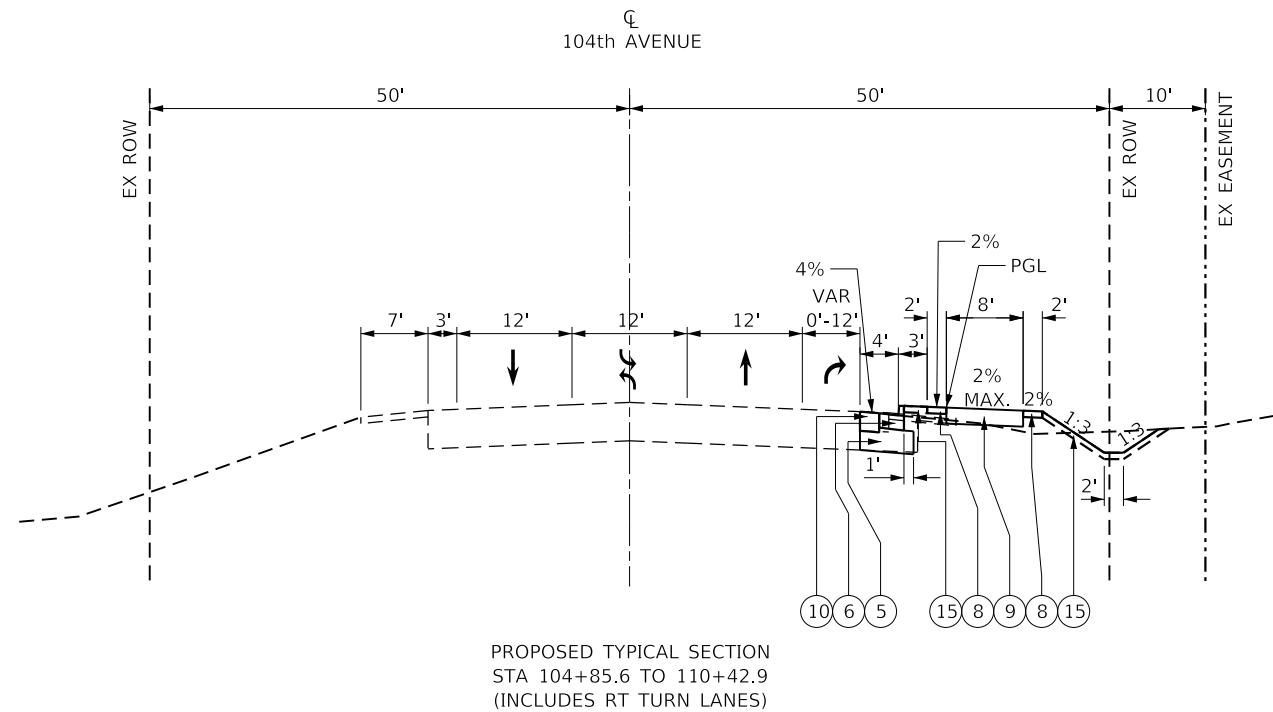
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	7
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



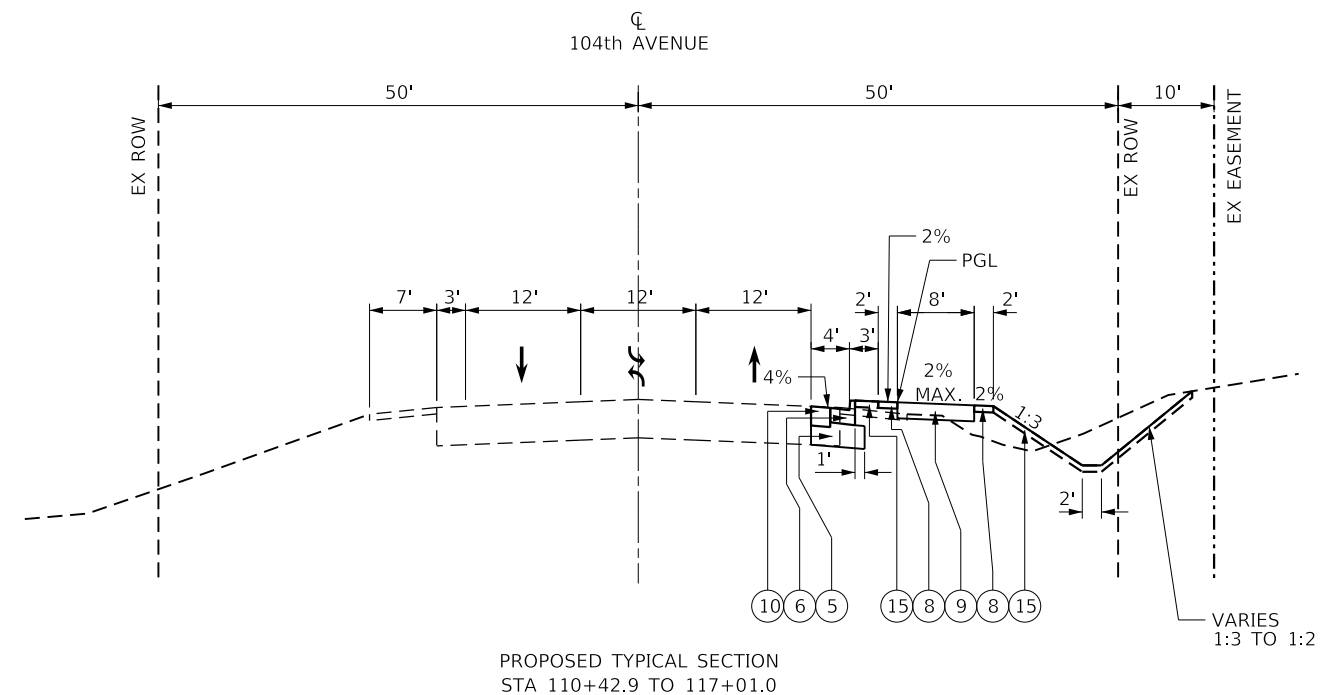
EXISTING TYPICAL SECTION
STA 104+85.4 TO 110+42.9
(INCLUDES RT TURN LANES)



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

USER NAME = GG	DESIGNED - GG	REVISED -
PLOT SCALE =	DRAWN - GG	REVISED -
PLOT DATE = 4/5/2022	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	84	8
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

BENCHMARKS

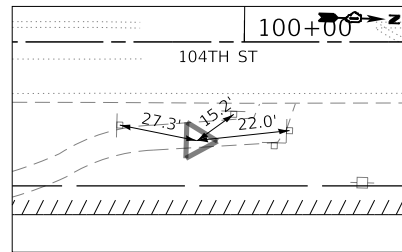
VERTICAL DATUM NAVD 88
HORIZONTAL DATUM NAD 83

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

ELEVATION = 713.89

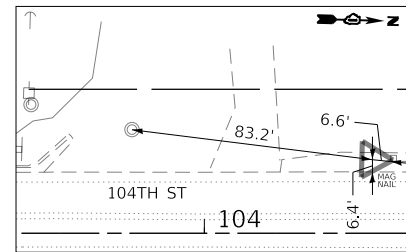
BENCHMARK 2
CROSS CUT ON SOUTH CORNER OF WEST HEADWALL
OF CULVERT UNDER 104TH AVENUE APPROXIMATELY
500 FEET SOUTH OF 159TH STREET.

ELEVATION = 686.28



CONTROL POINT #1
SET MAG NAIL

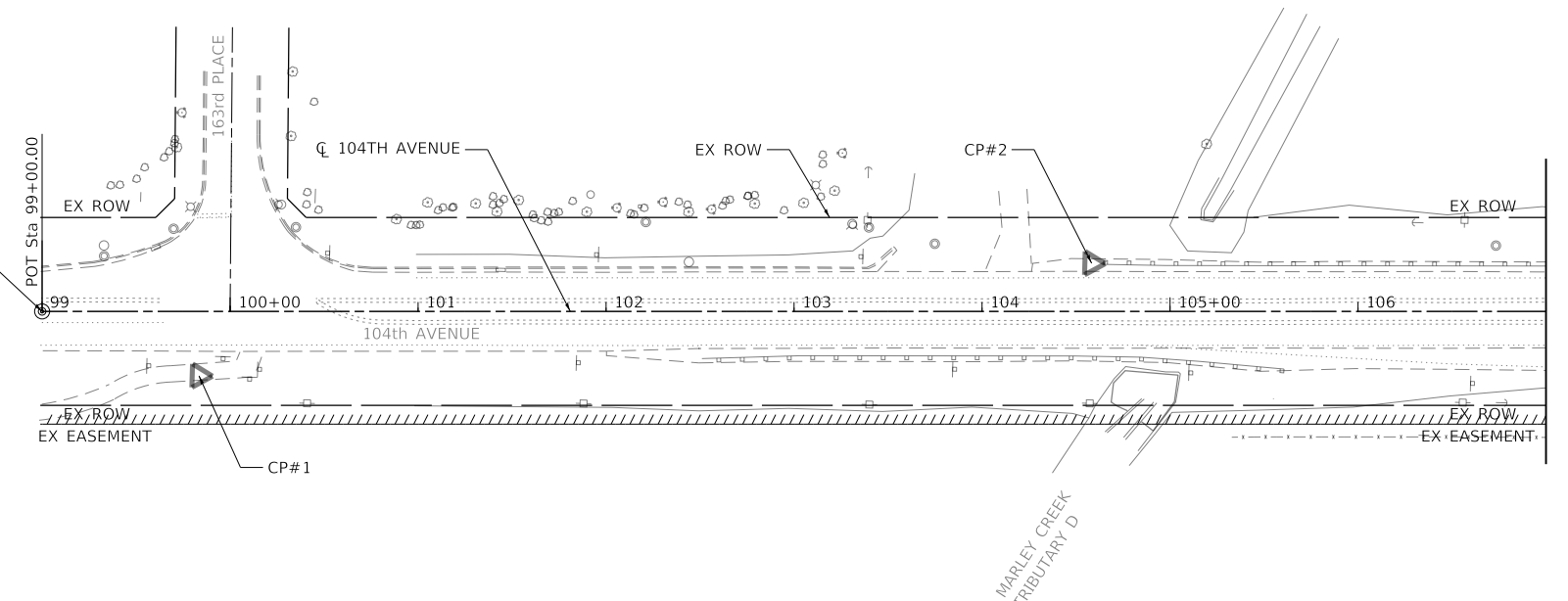
N = 1794504.98
E = 1110201.73
ELEV. = 711.40



CONTROL POINT #2
SET MAG NAIL

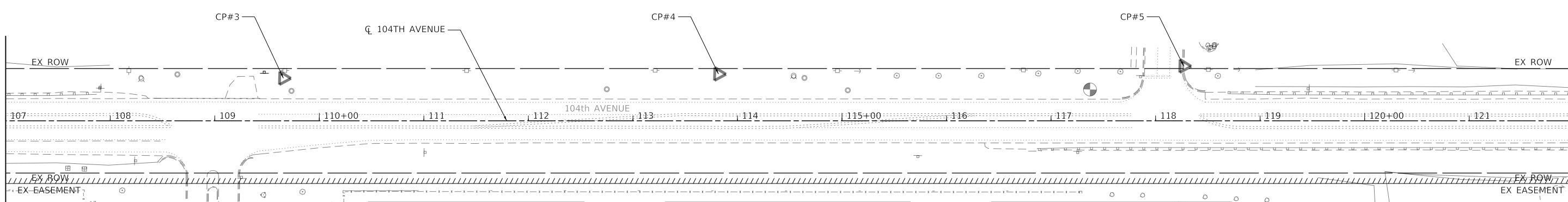
N = 1794977.98
E = 1110428.55
ELEV. = 700.09

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

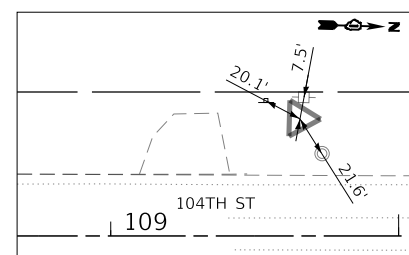


MATCHLINE STA 107+00

MATCHLINE STA 107+00

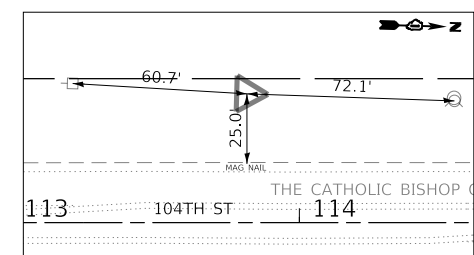


MATCHLINE STA 122+00



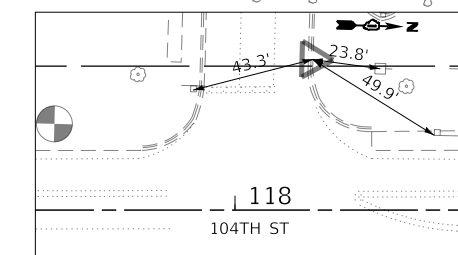
CONTROL POINT #3
SET RB W/CAP

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



MODEL: D:\p1\150000001\202203_CADD\01_Sheets\Civil\14202_104thAve.dwg
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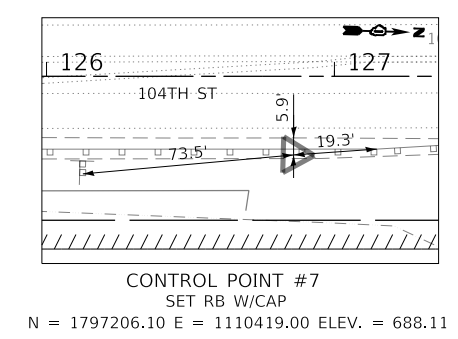
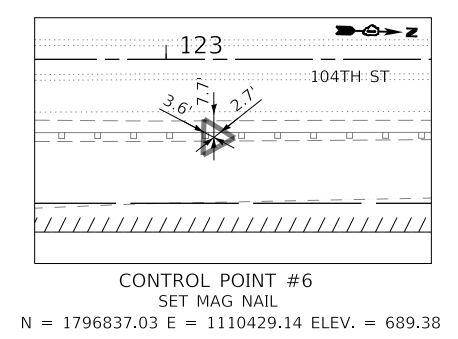
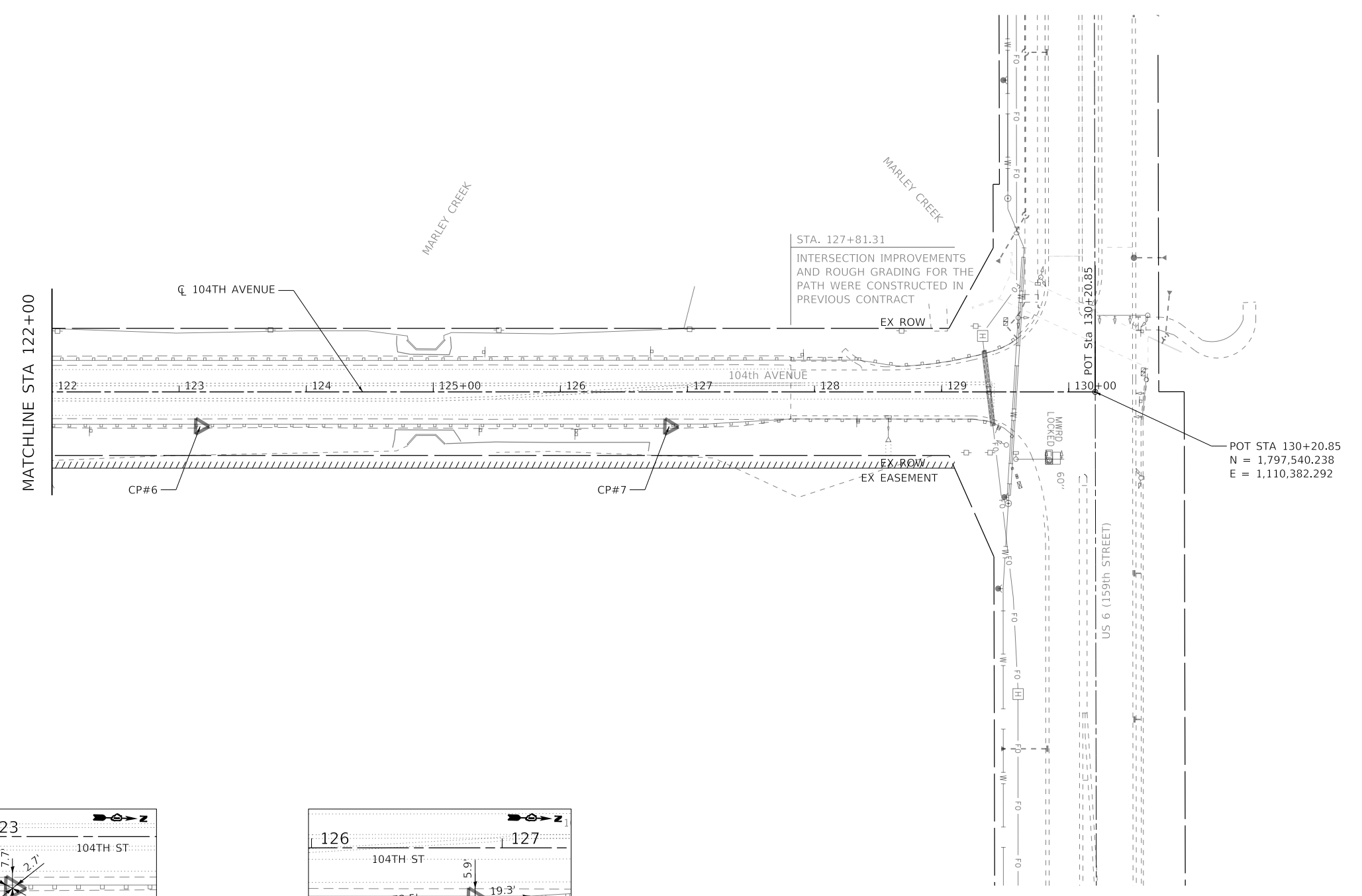
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PLOT SCALE =	DRAWN - JW	REVISED -
PLOT DATE = 4/5/2022	CHECKED - AM	REVISED -
	DATE - 4/6/2022	REVISED -

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	84	12
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



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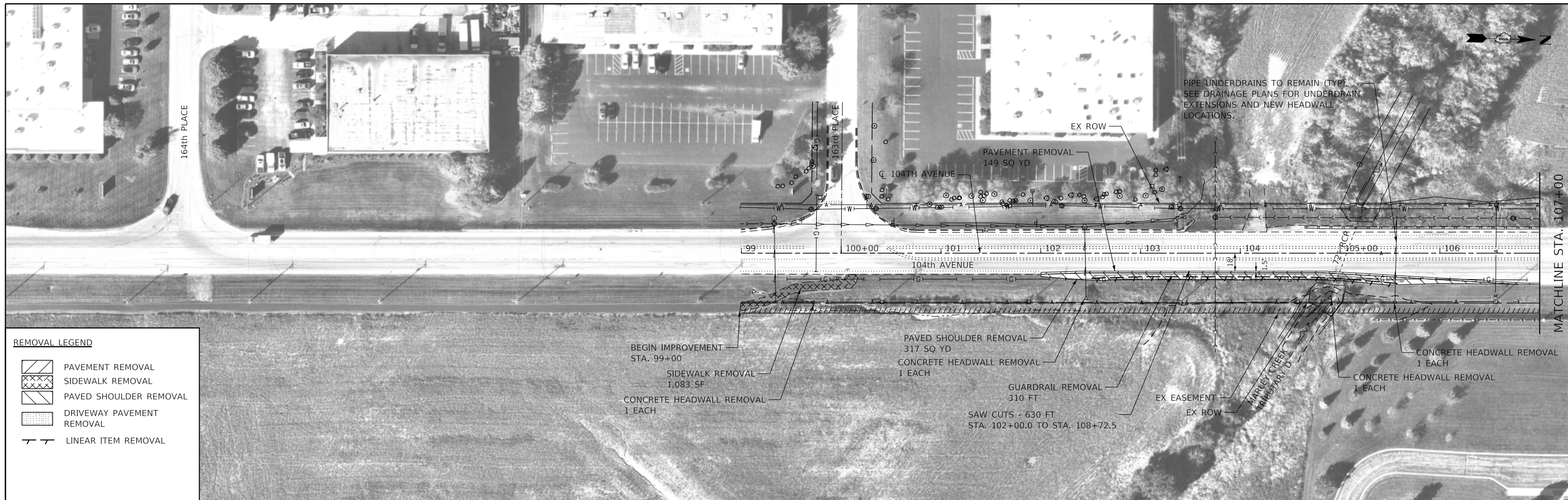
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PLOT DATE = 4/13/2022	CHECKED - AM	REVISED -
	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

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

SCALE: 1"=50' SHEET 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	84	13
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



REMOVAL LEGEND

	PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	PAVED SHOULDER REMOVAL
	DRIVEWAY PAVEMENT REMOVAL
	LINEAR ITEM REMOVAL

PIPE UNDERDRAINS TO REMAIN (TYP). SEE DRAINAGE PLANS FOR UNDERDRAIN EXTENSIONS AND NEW HEADWALL LOCATIONS.

PAVEMENT REMOVAL 149 SQ YD

PAVED SHOULDER REMOVAL 317 SQ YD

CONCRETE HEADWALL REMOVAL 1 EACH

GUARDRAIL REMOVAL 310 FT

SAW CUTS - 630 FT STA. 102+00.0 TO STA. 108+72.5

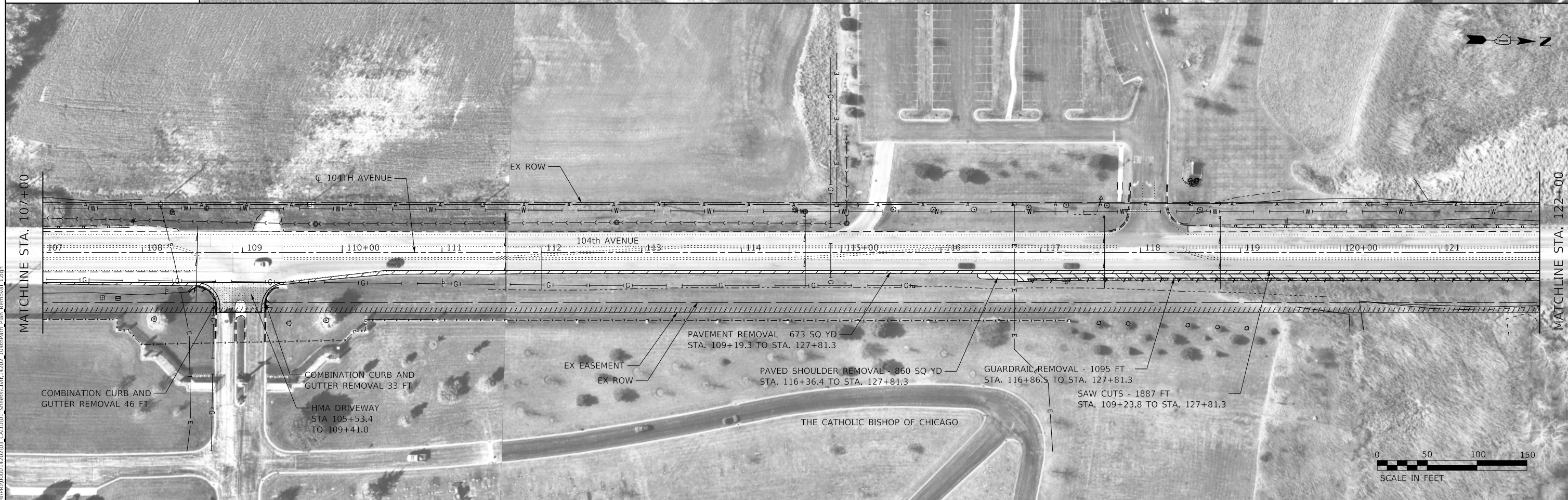
BEGIN IMPROVEMENT STA. 99+00

SIDEWALK REMOVAL 1,083 SF

CONCRETE HEADWALL REMOVAL 1 EACH

CONCRETE HEADWALL REMOVAL 1 EACH

CONCRETE HEADWALL REMOVAL 1 EACH



PAVEMENT REMOVAL - 673 SQ YD STA. 109+19.3 TO STA. 127+81.3

PAVED SHOULDER REMOVAL - 860 SQ YD STA. 116+36.4 TO STA. 127+81.3

GUARDRAIL REMOVAL - 1095 FT STA. 116+86.5 TO STA. 127+81.3

SAW CUTS - 1887 FT STA. 109+23.8 TO STA. 127+81.3

COMBINATION CURB AND GUTTER REMOVAL 46 FT

COMBINATION CURB AND GUTTER REMOVAL 33 FT

HMA DRIVEWAY STA 105+53.4 TO 109+41.0



MODEL: Defaul...
 FILE NAME: R:\Projects\14202\03_CADD\01_Sheets\Civil\14202_104thRtPath_Plan_Removal_1.dgn

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USER NAME = GG	DESIGNED - JW	REVISED -
PLOT SCALE =	DRAWN - JW	REVISED -
PLOT DATE = 4/5/2022	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	84	14
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

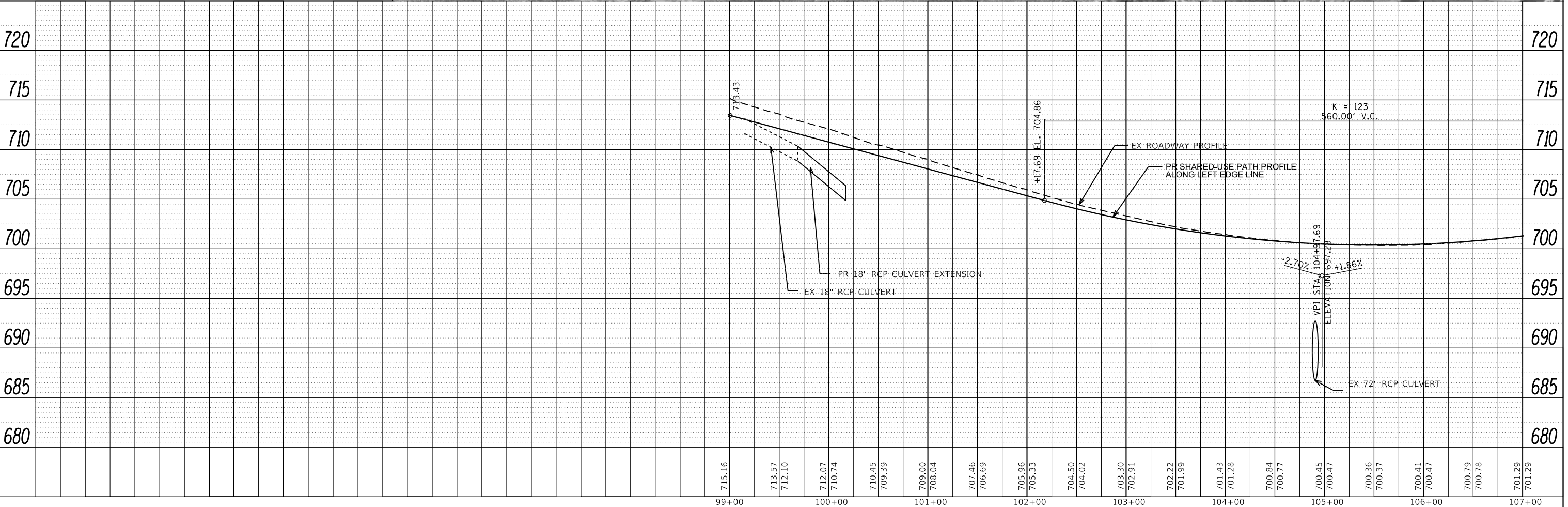
NOTE:

- 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.	

DATE	
BY	
PROFILE	
NO.	
DATE	
BY	
PLAN	
NO.	



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

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	84	16
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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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 SIGNS R3-1

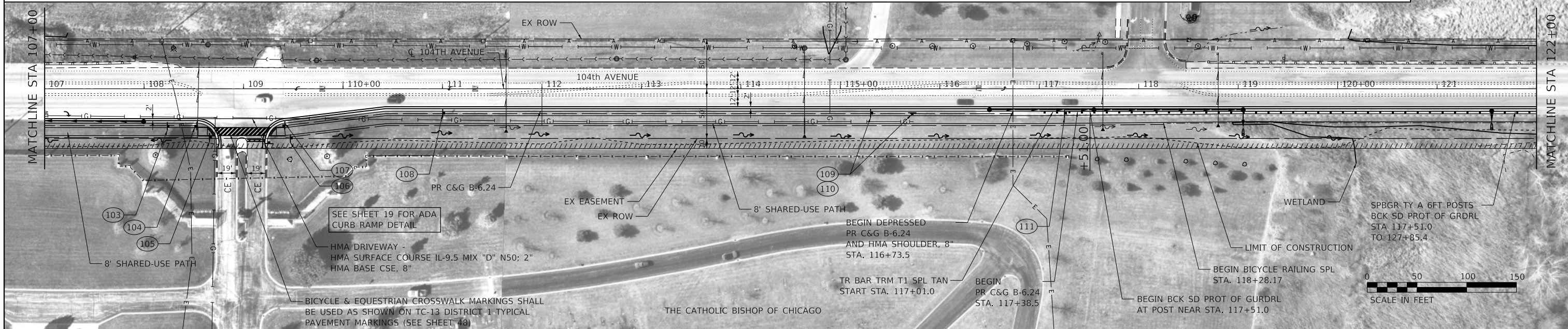
PATH GEOMETRY	STATION	OFFSET (RT)	STATION	OFFSET (RT)	RADIUS
TANGENT	106+85.4	39.0	108+54.2	39.0	-
TAPER	109+41.1	39.1	110+42.9	27.0	-
TANGENT	110+42.9	27.0	117+00.0	27.0	-
TAPER	117+00.0	27.0	119+00.0	25.1	-
TANGENT	119+00.0	25.1	129+25.6	25.1	-

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

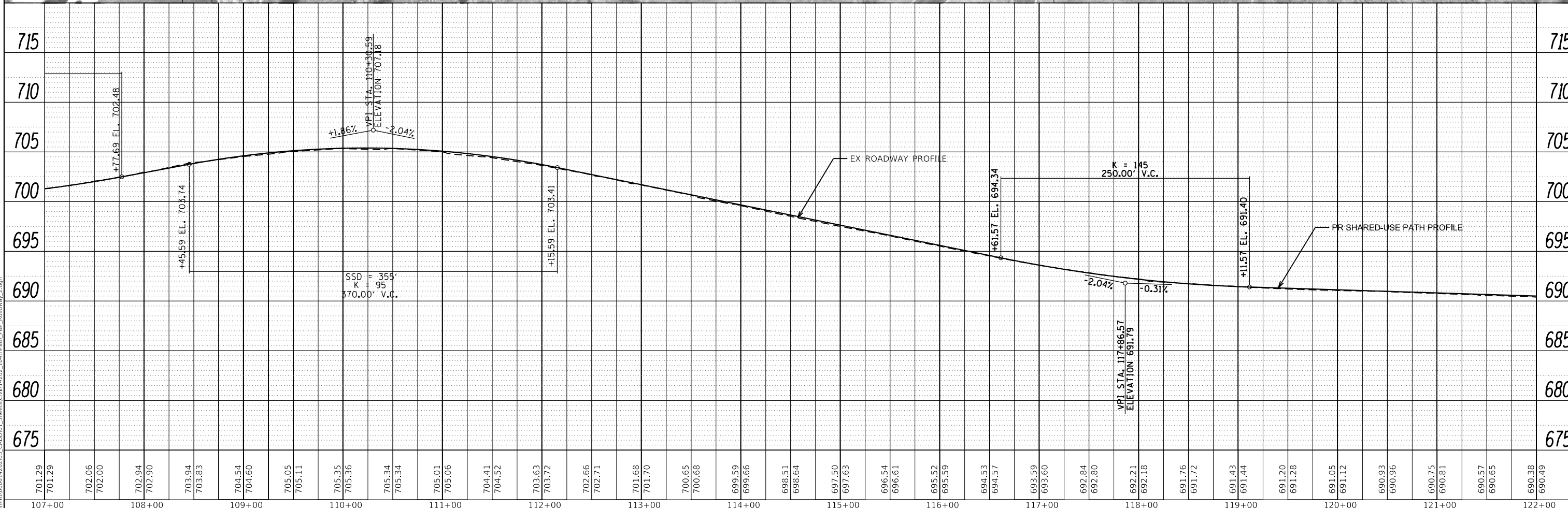
NOTE:

- 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	
	NOTATION	
	NO. _____	
	DATE _____	



701.29	701.29	702.06	702.00	702.94	702.90	703.94	703.83	704.54	704.60	705.05	705.11	705.35	705.36	705.34	705.34	705.01	705.06	704.41	704.52	703.63	703.72	702.66	702.71	701.68	701.70	700.65	700.68	699.59	699.66	698.51	698.64	697.50	697.63	696.54	696.61	695.52	695.59	694.53	694.57	693.59	693.60	692.84	692.80	692.21	692.18	691.76	691.72	691.43	691.44	691.20	691.28	691.05	691.12	690.93	690.96	690.75	690.81	690.57	690.65	690.38	690.49
107+00	108+00	109+00	110+00	111+00	112+00	113+00	114+00	115+00	116+00	117+00	118+00	119+00	120+00	121+00	122+00																																														

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USER NAME = GG	DESIGNED - JW	REVISED -
	DRAWN - JW	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

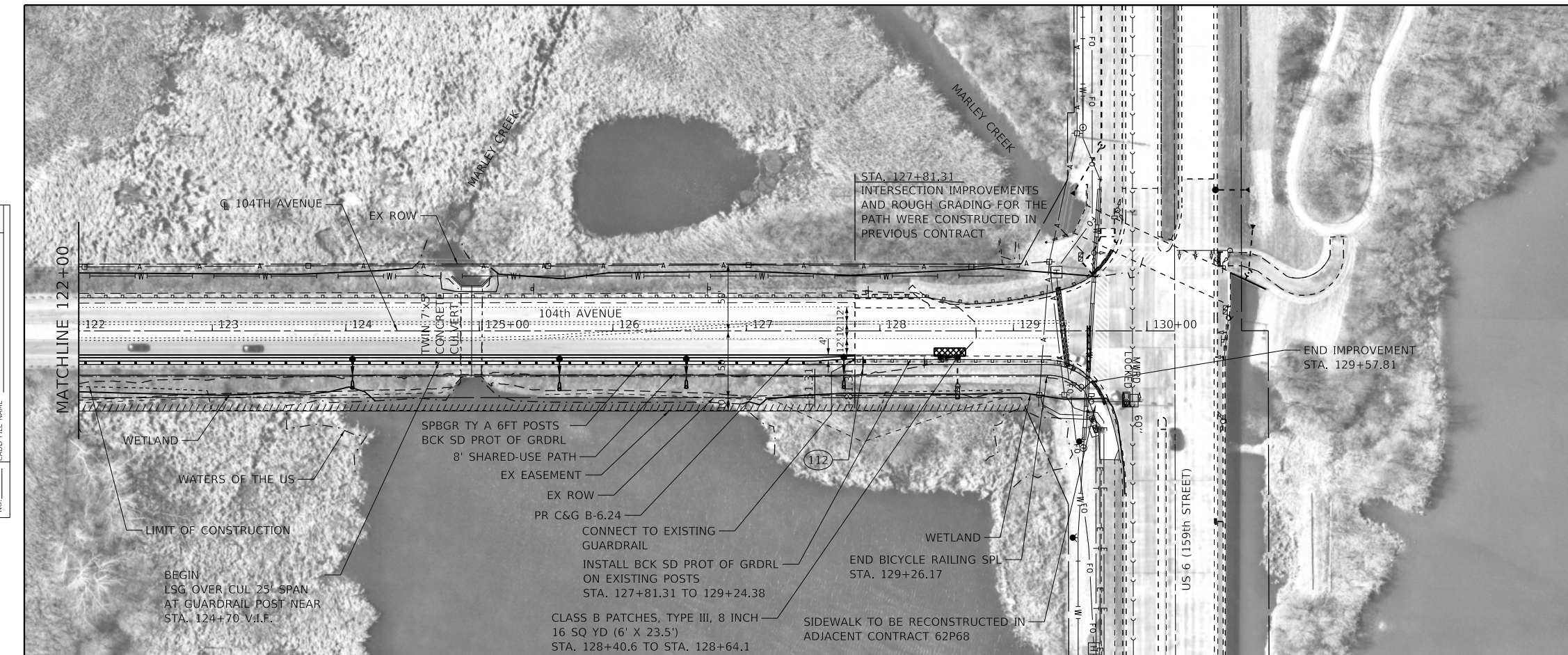
PLAN, PROFILE AND SIGNING PLAN
104TH AVENUE SHARED-USE PATH

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	84	17
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	CHECKED
	NOTE BOOK	NO.
	NO.	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	CHECKED
	NOTE BOOK	NO.
	NO.	
	NO.	



159th St

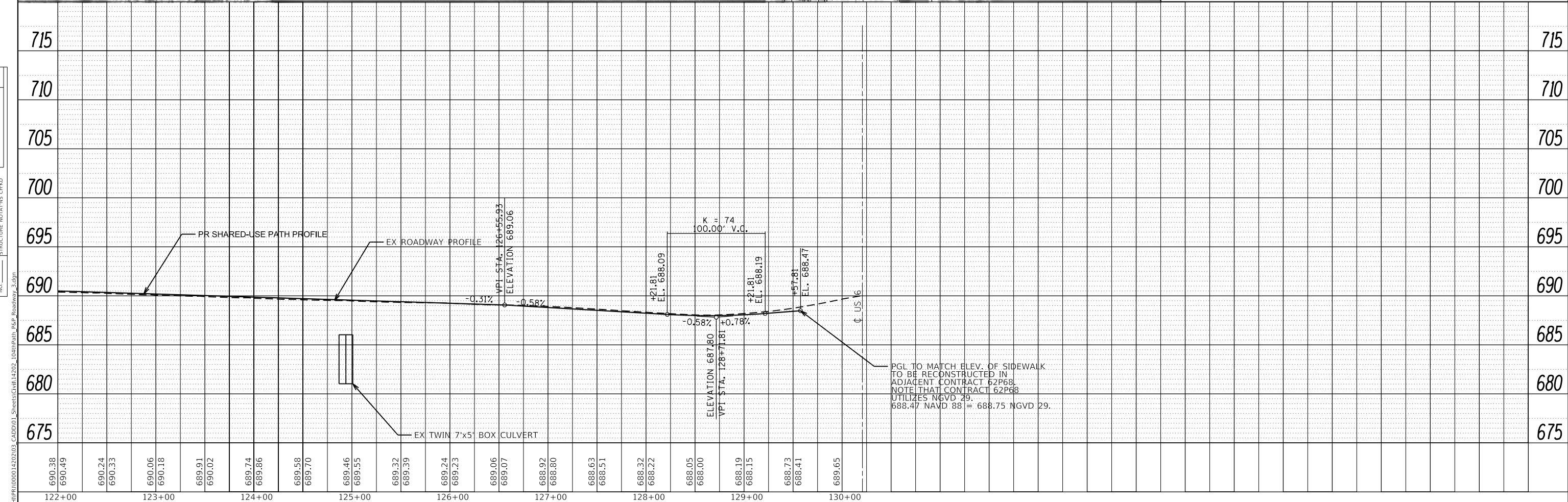
(112) RELOCATE EXISTING SIGN D3-1

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

USER NAME = GG	DESIGNED - JW	REVISED -
	DRAWN - JW	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 4/13/2022	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	84	18
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)

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.

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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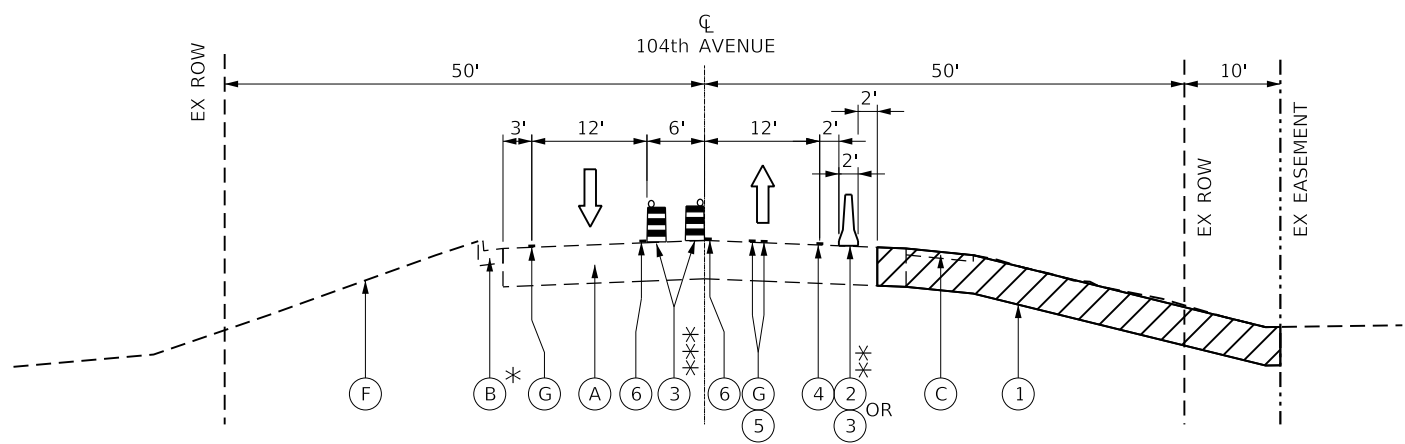
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VILLAGE OF ORLAND PARK

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

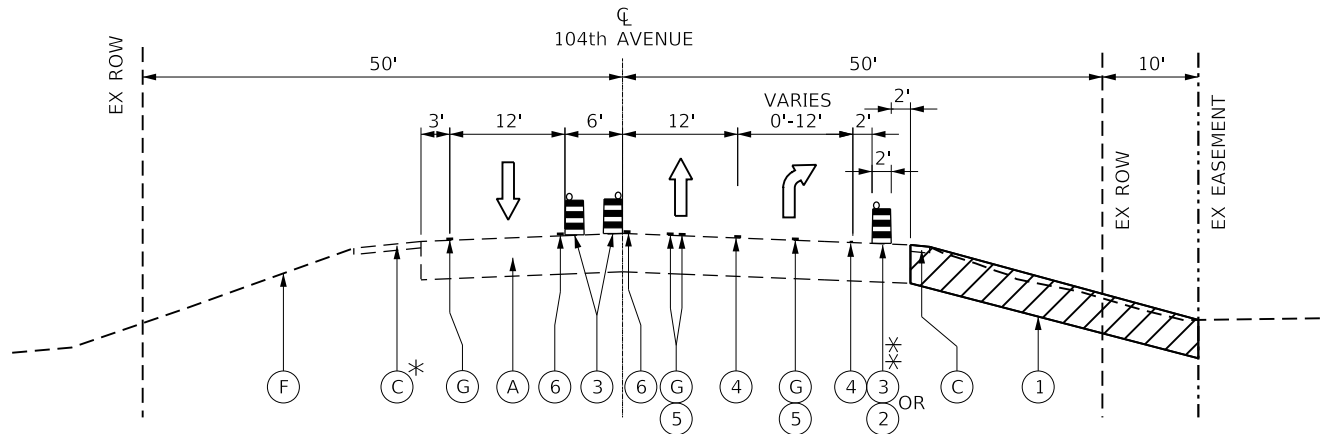
SCALE: 1"=50' SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	20
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



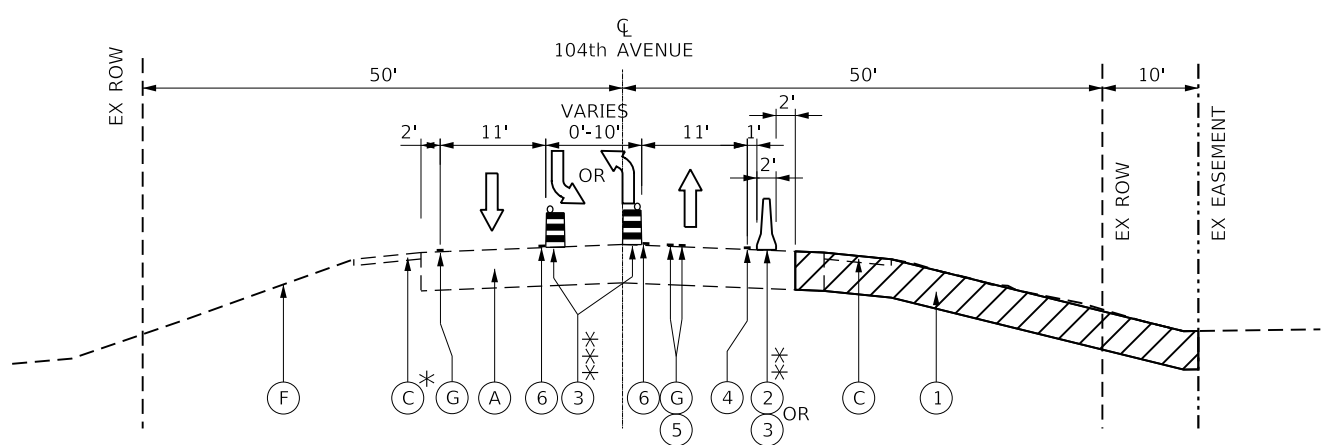
* EXISTING CC&G END STA. 103+55
 ** TYPE II BARRICADE OR DRUM LIMITS STA. 100+00 TO STA. 101+40
 TEMP CONCRETE BARRIER LIMITS STA. 101+40 TO STA. 104+85
 *** DRUMS NOT TO BE INSTALLED BETWEEN TURN LANES AND THROUGH LANES IN THE SAME DIRECTION. REFER TO MAINTENANCE OF TRAFFIC PLANS ON SHEETS 22 AND 23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

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PLOT DATE = 4/5/2022	CHECKED - AM	REVISED -
	DATE - 4/6/2022	REVISED -

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	84	21
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



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VILLAGE OF ORLAND PARK

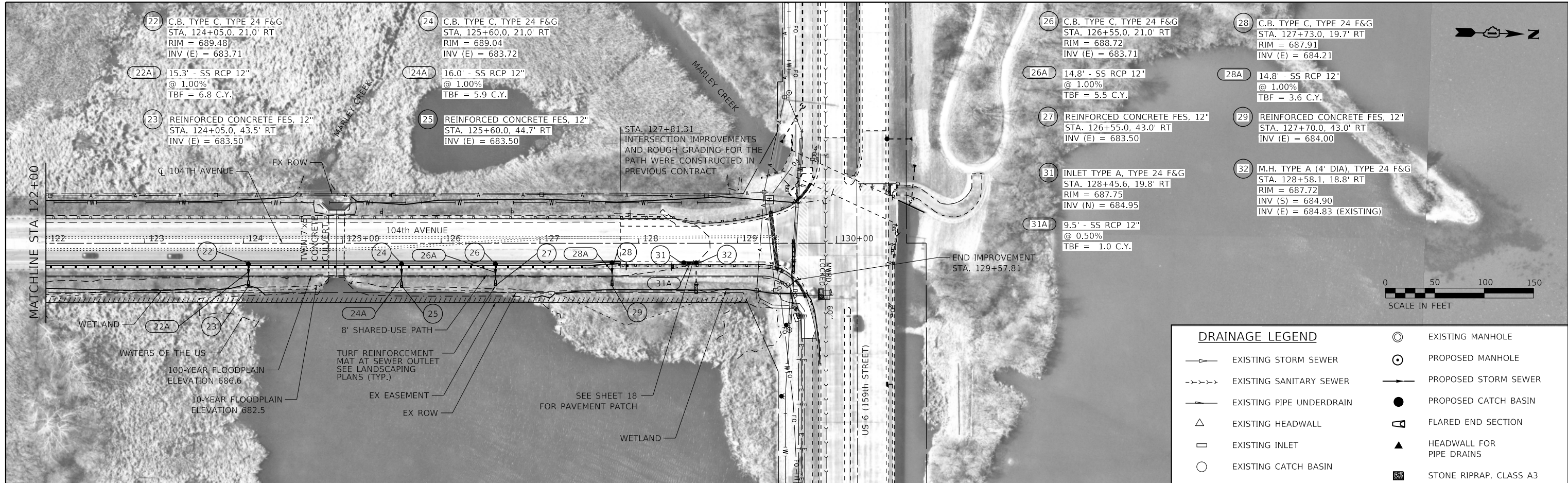
**MAINTENANCE OF TRAFFIC PLANS
104TH AVENUE SHARED-USE PATH**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	23
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

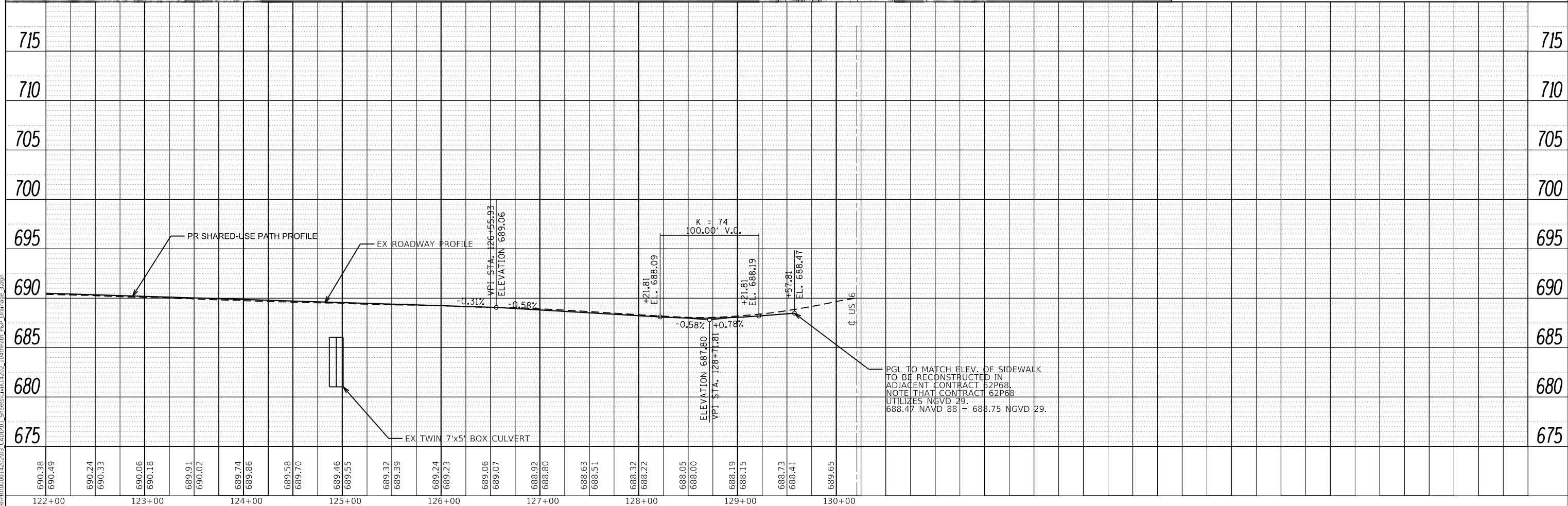
SCALE: SHEET 4 OF 4 SHEETS STA. 122+00 TO STA. 130+00

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	PLOTTED	BY
	ALIGNED	CHECKED
	GRADES	FILE NAME
	STRUCTURE	NO.
	NOTATION	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	CHECKED
	STRUCTURE	FILE NAME
	NOTATION	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



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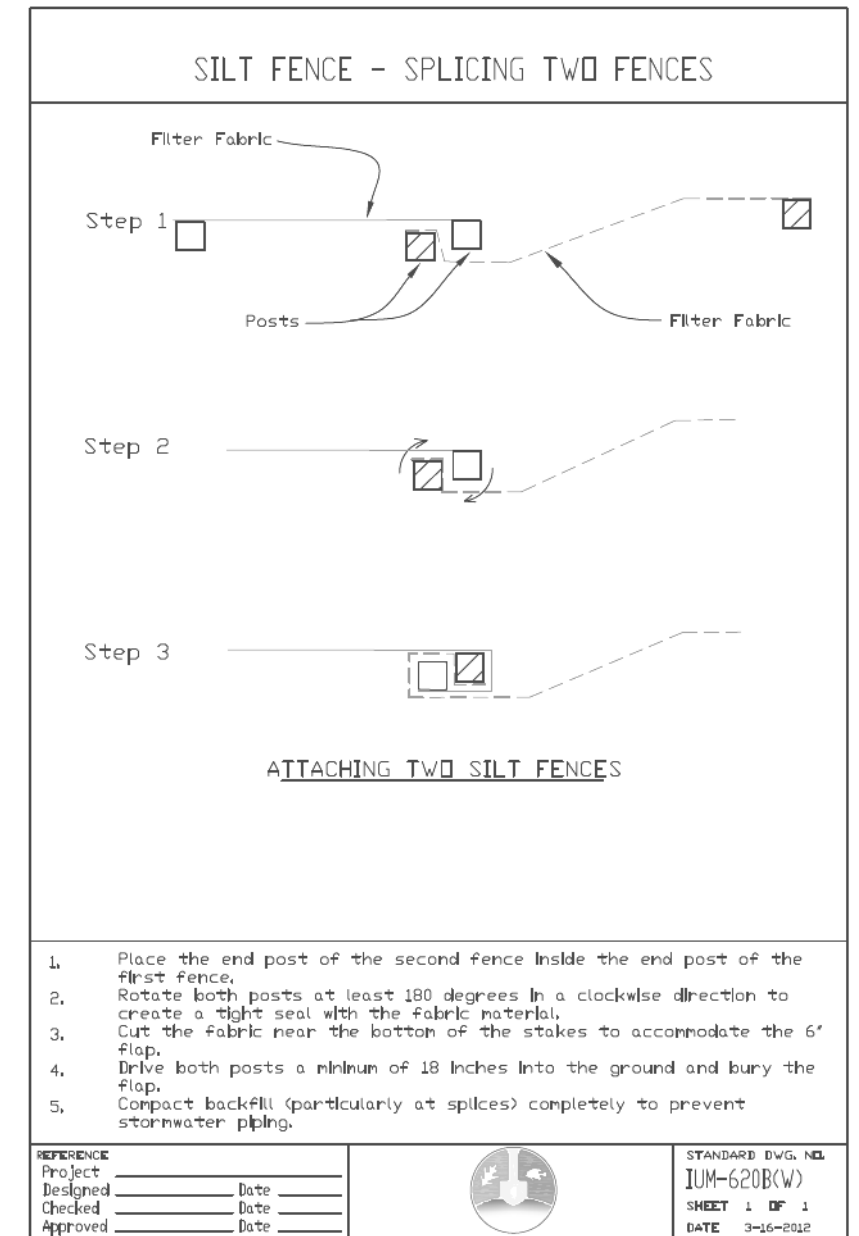
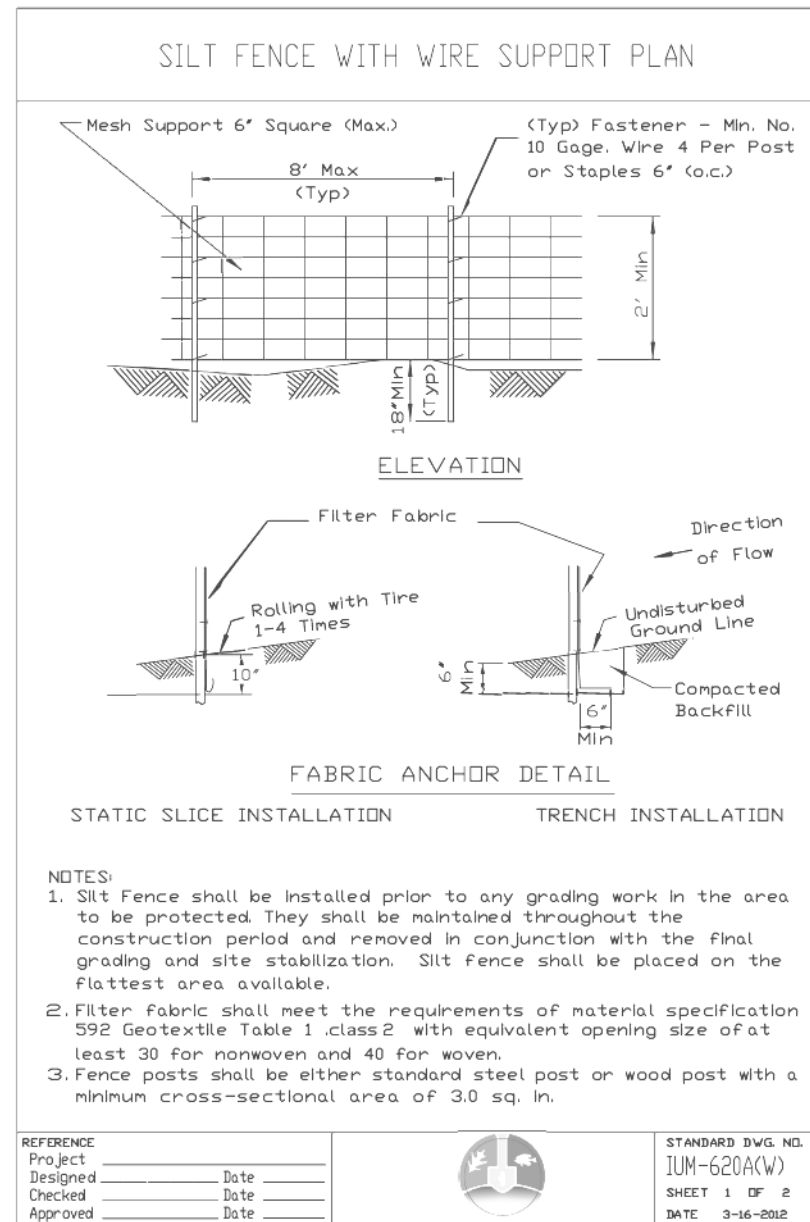
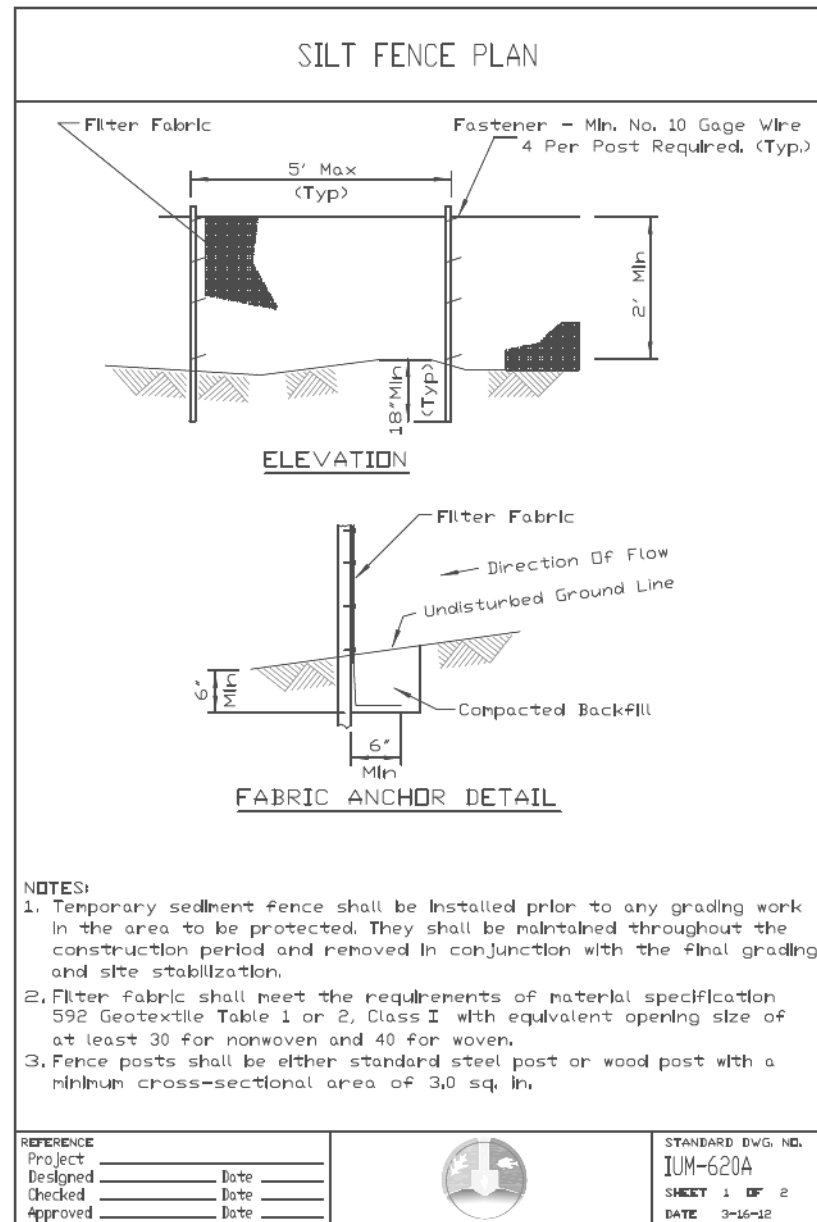
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DATE = 4/13/2022	CHECKED - AM	REVISED -
	DATE = 4/6/2022	REVISED -

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	84	35
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

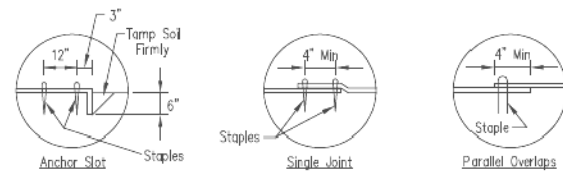
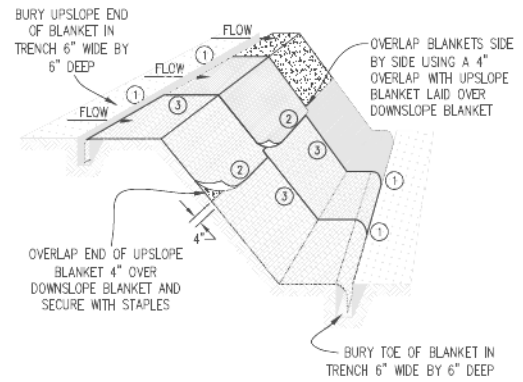


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PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISED -	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	27
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

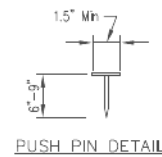
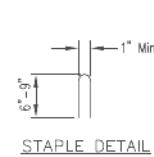
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DETAIL 1

DETAIL 2

DETAIL 3



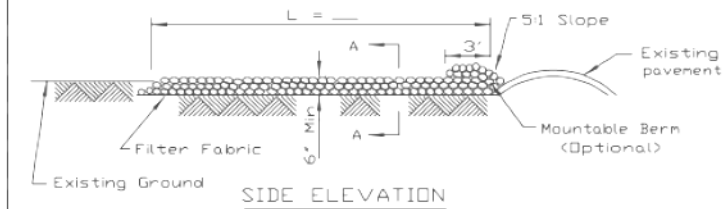
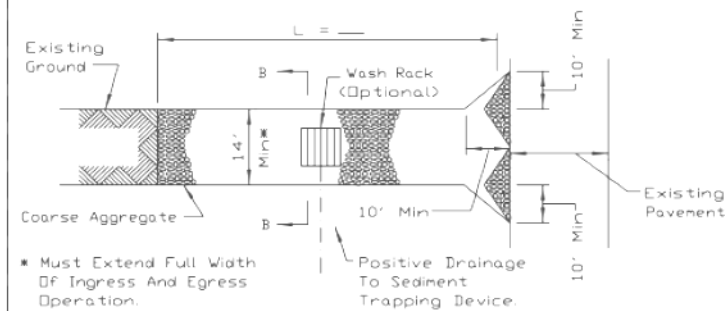
NOTES:

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

Designed	_____	Date	_____
Drawn	G. GIBSON	Date	11/08
Checked	_____	Date	_____
Approved	_____	Date	_____

STABILIZED CONSTRUCTION ENTRANCE PLAN



NOTES:

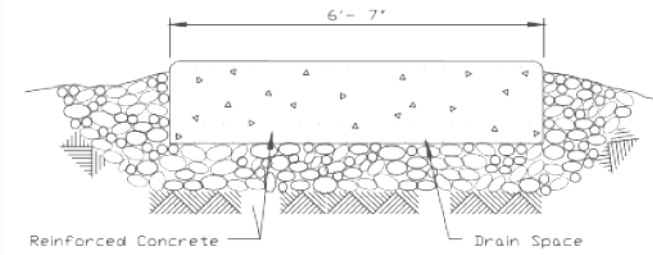
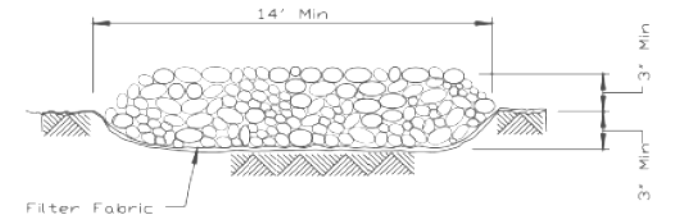
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 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	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG. NO.	IL-630
SHEET	1 OF 2
DATE	8-18-94

STABILIZED CONSTRUCTION ENTRANCE PLAN



REFERENCE Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG. NO.	IL-630
SHEET	2 OF 2
DATE	8-18-94

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PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISED -

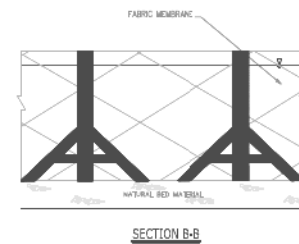
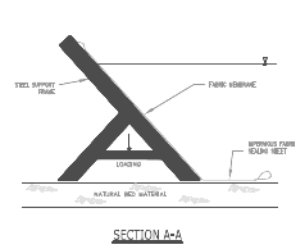
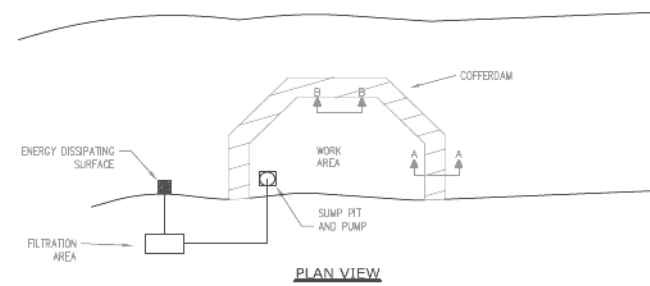
VILLAGE OF ORLAND PARK

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	84	28
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

A-FRAME PARTIAL COFFERDAM



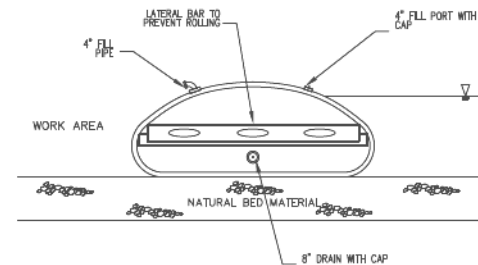
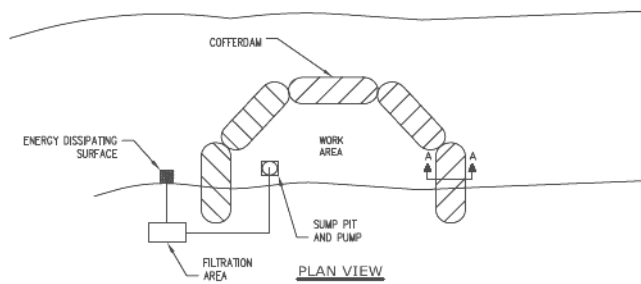
- NOTES:
1. ALL DISCHARGES SHOULD BE ON ENERGY DISSIPATING SURFACES.
 2. LOCATIONS FOR SUMP PIT, FILTRATION AREA, AND ENERGY DISSIPATING SURFACES MAY VARY DEPENDING ON SITE CONDITIONS.
 3. A-FRAME SHOULD BE INSTALLED TO MANUFACTURER'S SPECIFICATIONS.

REFERENCE	Project	_____	Date	_____
	Designed	_____	Date	_____
	Checked	_____	Date	_____
	Approved	_____	Date	_____



STANDARD DWG. NO.
IUM-503AP
SHEET 2 OF 7
DATE 7-09-2012

BLADDER PARTIAL COFFERDAM



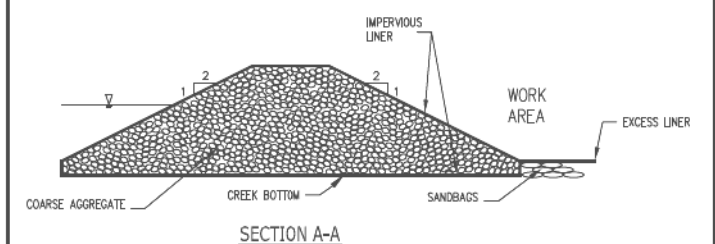
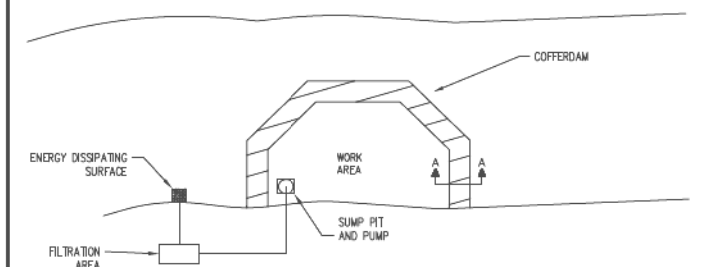
- NOTES:
1. ALL DISCHARGES SHOULD BE ON ENERGY DISSIPATING SURFACES.
 2. LOCATIONS FOR THE SUMP PIT, FILTRATION AREA, AND ENERGY DISSIPATING SURFACES MAY VARY DEPENDING ON SITE CONDITIONS.

REFERENCE	Project	_____	Date	_____
	Designed	_____	Date	_____
	Checked	_____	Date	_____
	Approved	_____	Date	_____



STANDARD DWG. NO.
IUM-503BP
SHEET 4 OF 7
DATE 7-09-2012

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	Project	_____	Date	_____
	Designed	_____	Date	_____
	Checked	_____	Date	_____
	Approved	_____	Date	_____



STANDARD DWG. NO.
IUM-503RP
SHEET 6 OF 7
DATE 7-09-2012

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CONSULTING ENGINEERS & PLANNERS
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606
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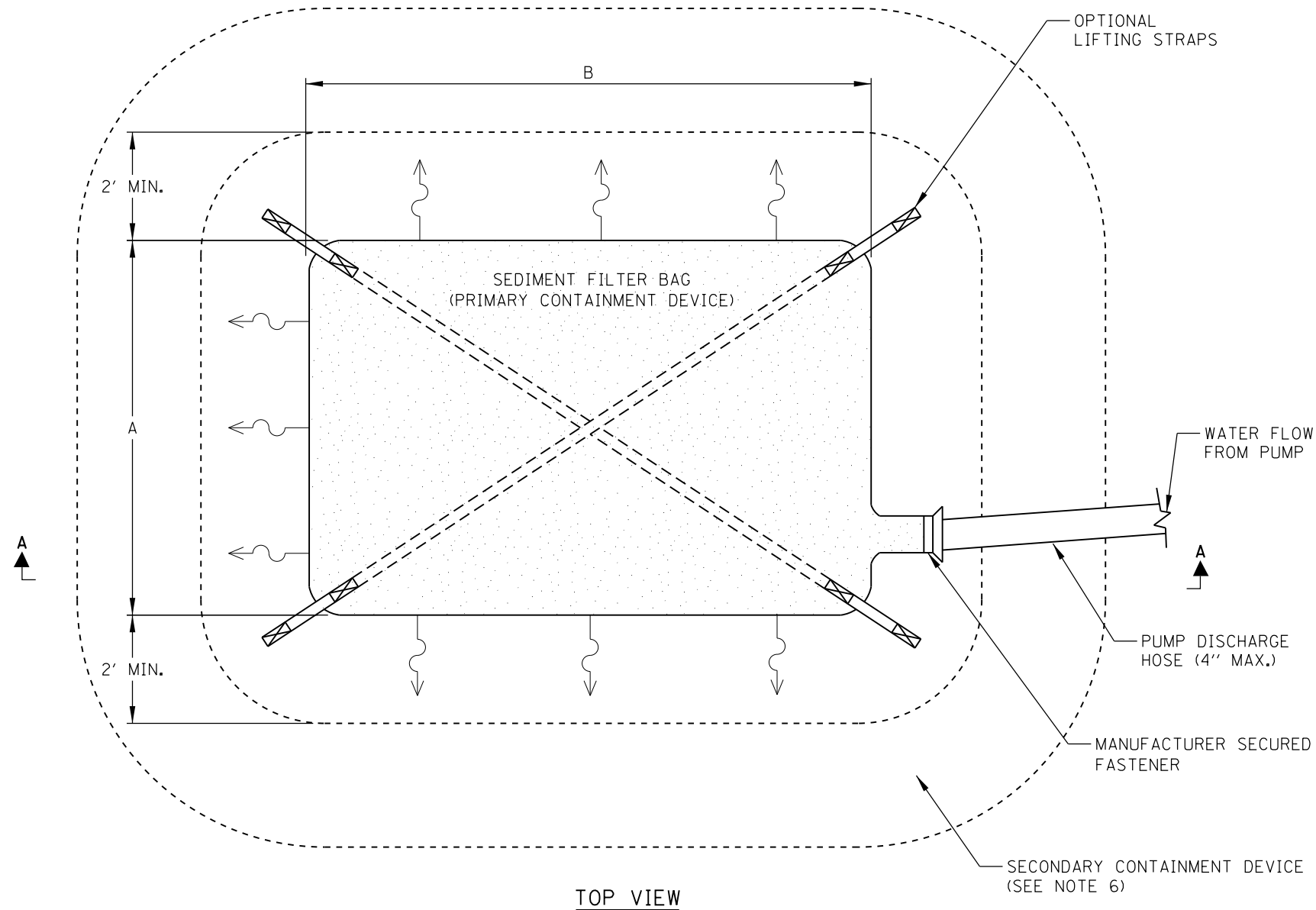
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VILLAGE OF ORLAND PARK

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

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	30
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

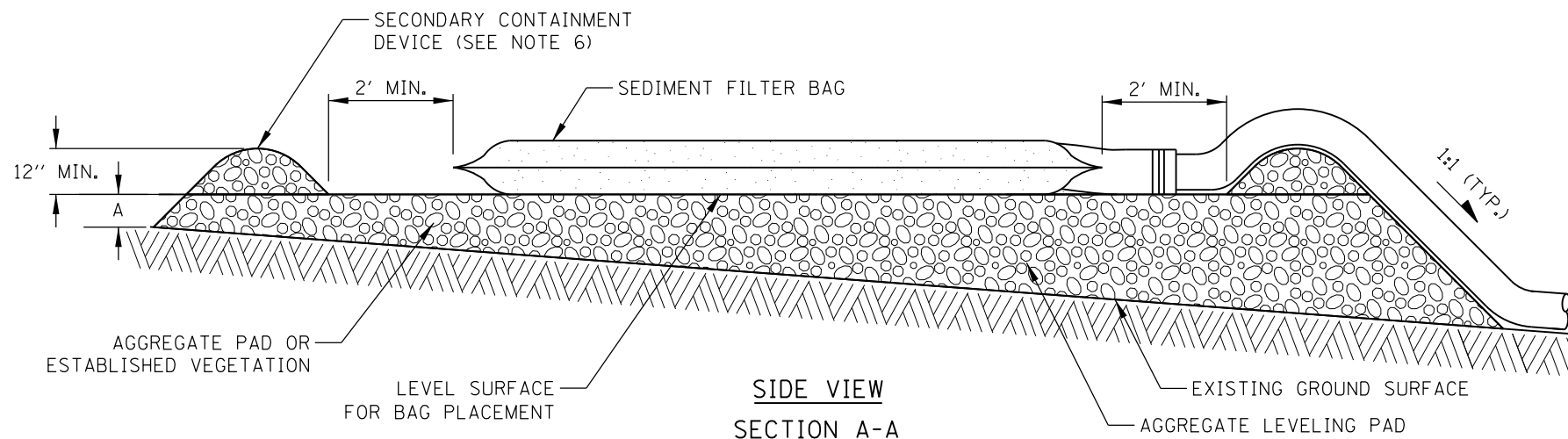


TOP VIEW

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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	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	84	32
			CONTRACT NO. 61H84	
ILLINOIS FED. AID PROJECT				

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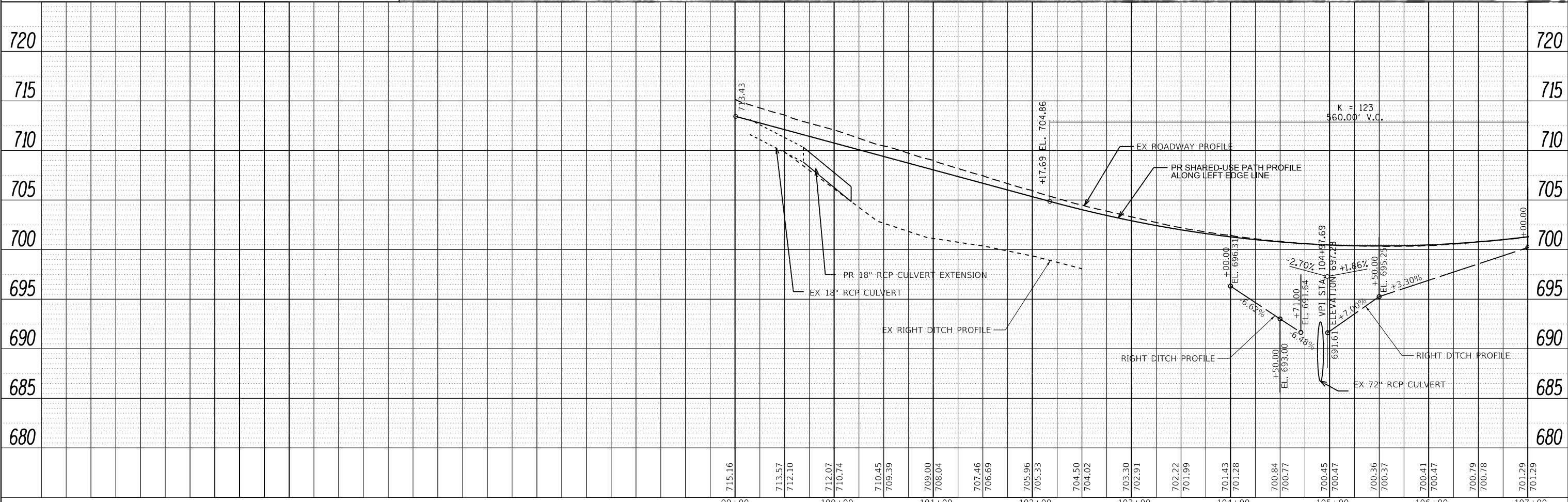
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DRAINAGE LEGEND

- 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
- ⑥A 17.0' - SS RCP 15"
@ 0.50%
TBF = 5.3 C.Y.
- ⑤ REINFORCED CONCRETE FES, 15"
STA. 105+46.7, 48.70' RT
INV (E) = 695.00
- 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
- ⑦A 29.4' - SS RCP 15"
@ 0.50%
TBF = 6.2 C.Y.
- 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
- ⑧A 77.1' - SS RCP 12"
@ 1.00%
TBF = 13.0 C.Y.
- 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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PLOT SCALE =	DATE - 4/6/2022	REVISED -
PLOT DATE = 4/5/2022		

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	33
				CONTRACT NO. 61H84
				ILLINOIS FED. AID PROJECT

DRAINAGE LEGEND

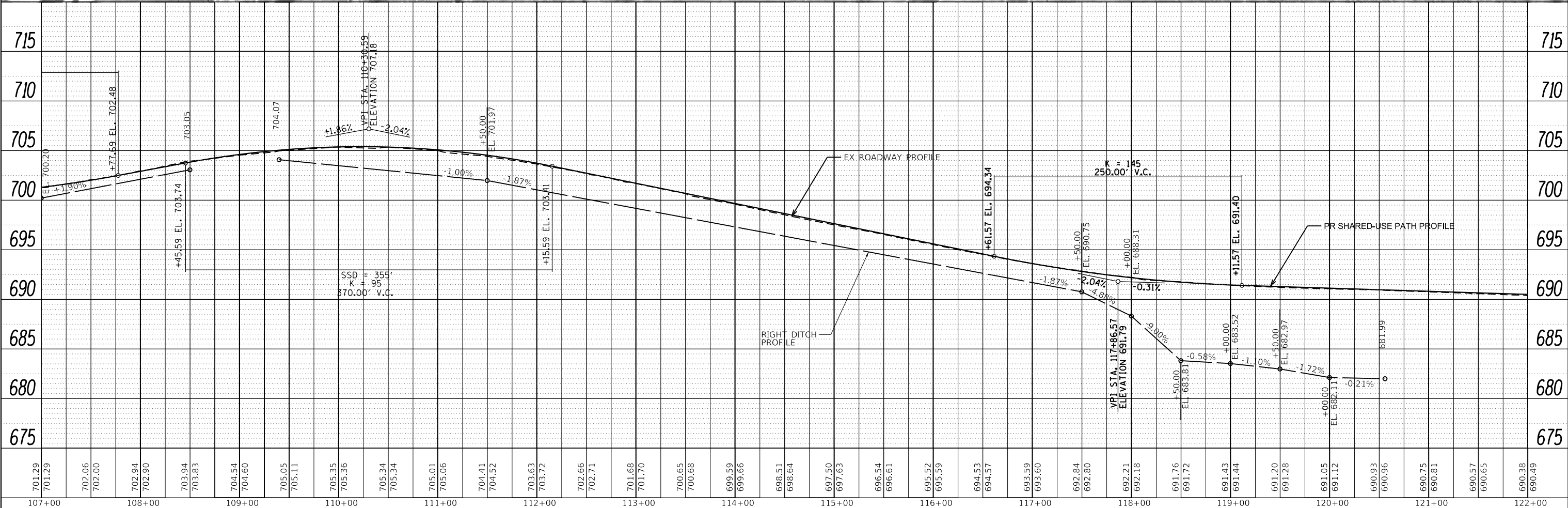
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- - - - - EXISTING SANITARY SEWER
- EXISTING PIPE UNDERDRAIN
- △ EXISTING HEADWALL
- EXISTING INLET
- EXISTING CATCH BASIN
- ⊙ EXISTING MANHOLE
- ⊙ PROPOSED MANHOLE
- PROPOSED STORM SEWER
- PROPOSED CATCH BASIN
- ▲ FLARED END SECTION
- ▲ HEADWALL FOR 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	
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	FILE NAME	
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PROFILE	SURVEYED	DATE
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VILLAGE OF ORLAND PARK

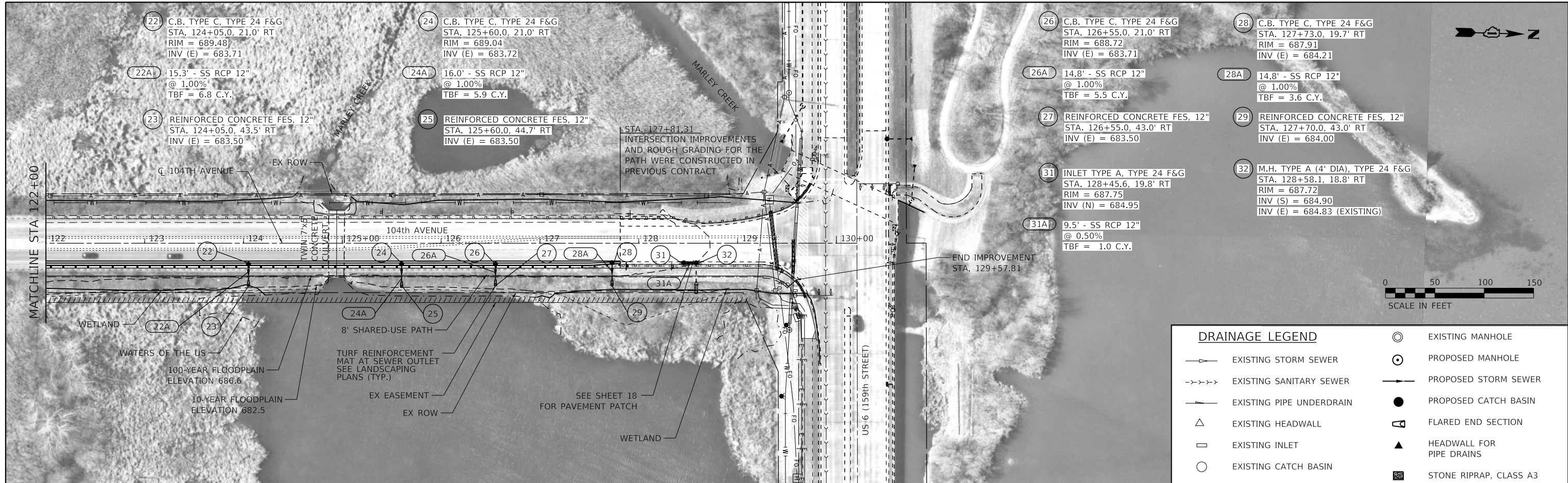
**DRAINAGE PLAN AND PROFILE
104TH AVENUE SHARED-USE PATH**

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

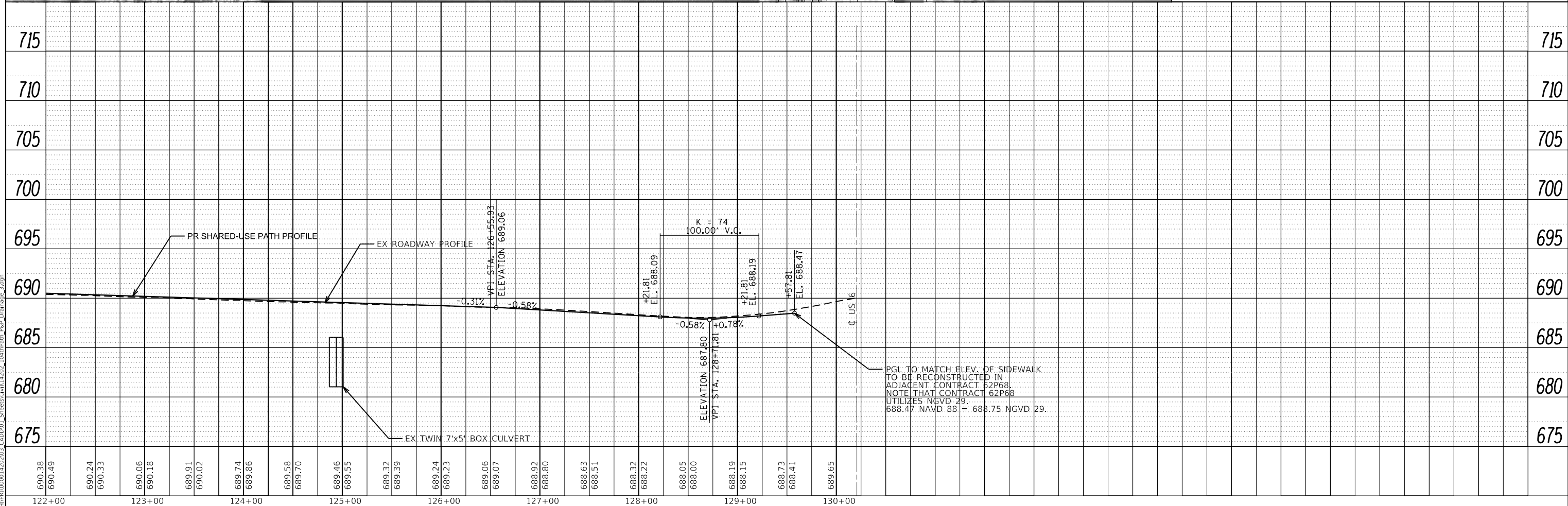
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				CONTRACT NO. 61H84
				ILLINOIS FED. AID PROJECT

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	ALIGNED	
	CHECKED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATION	
	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



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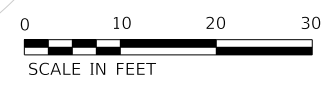
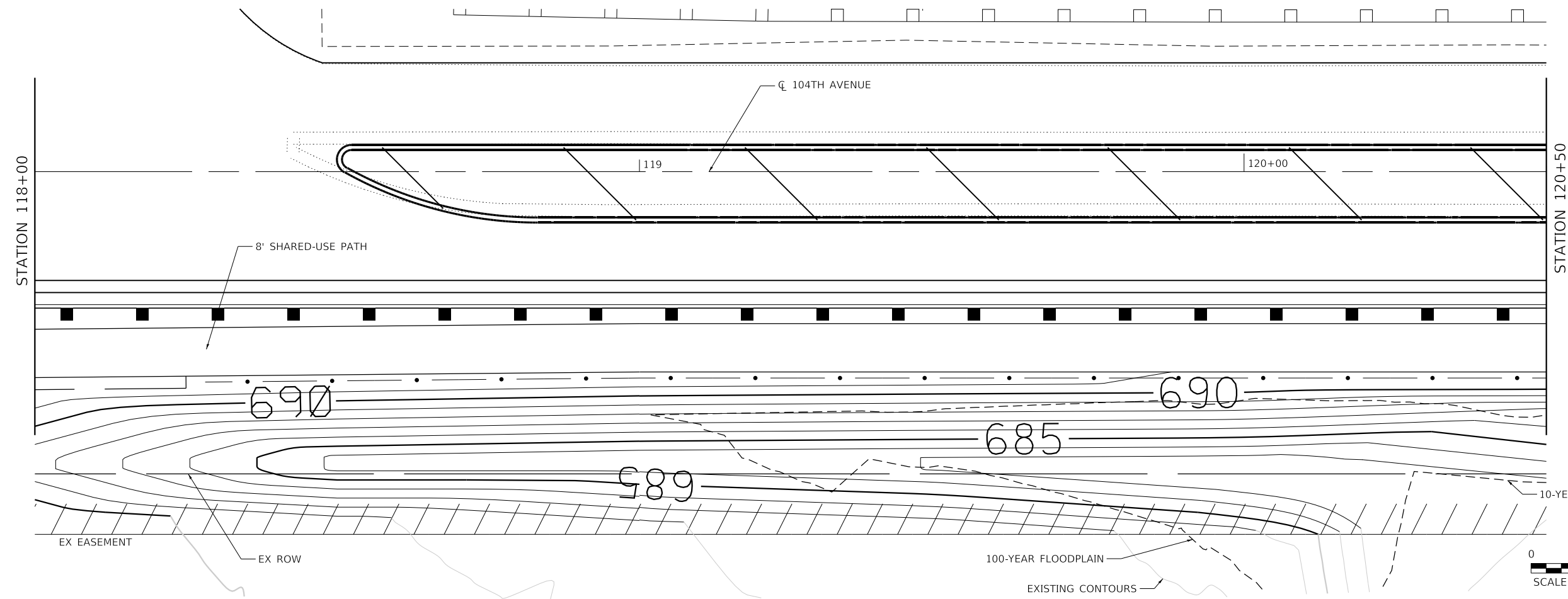
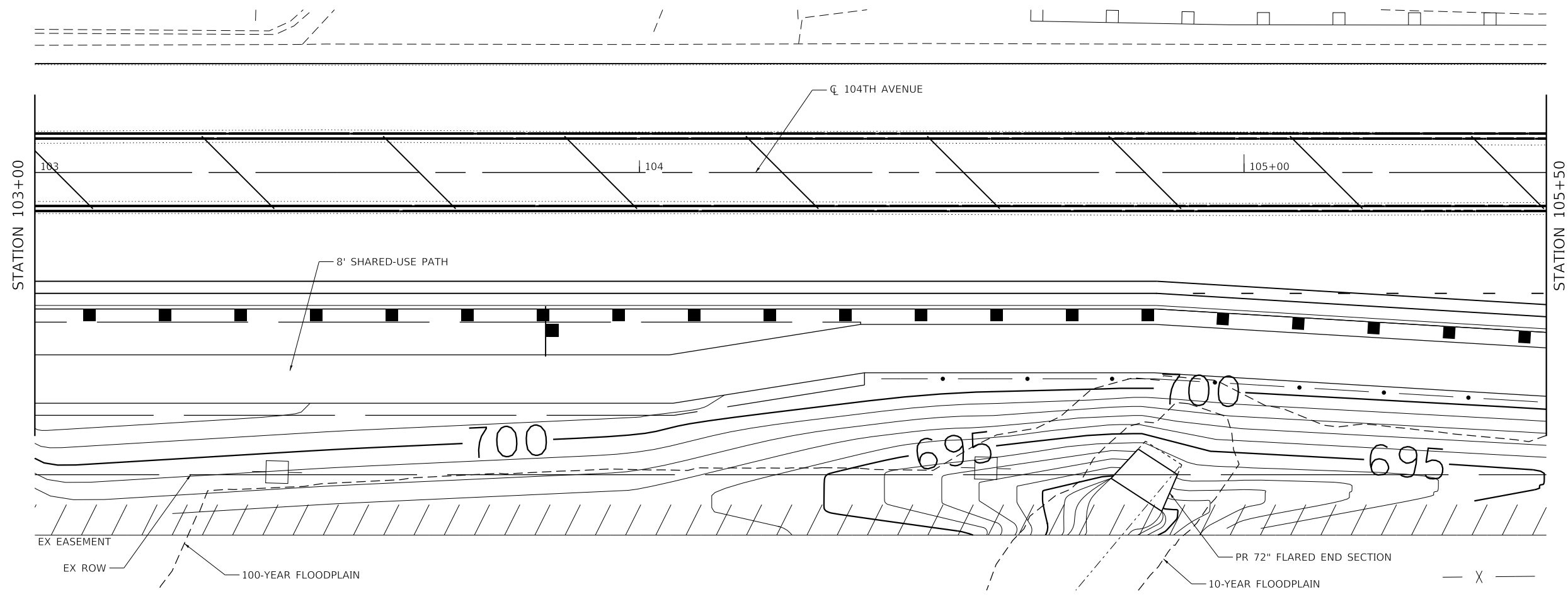
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VILLAGE OF ORLAND PARK

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	84	35
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



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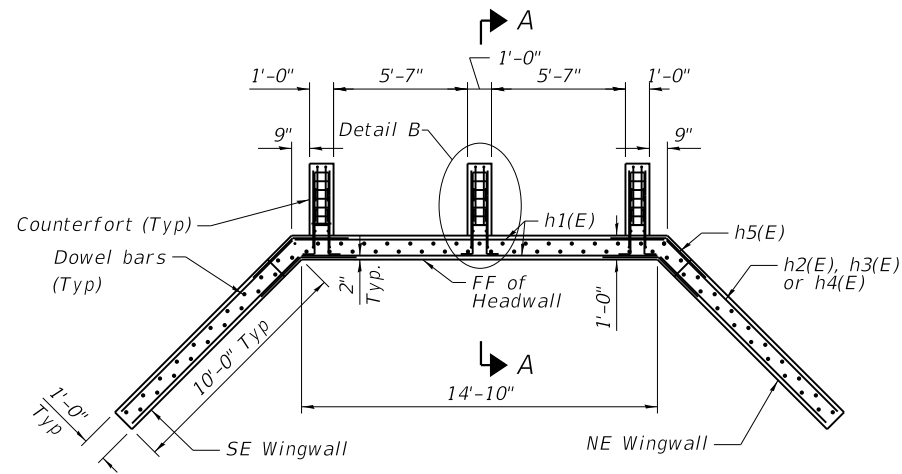
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VILLAGE OF ORLAND PARK

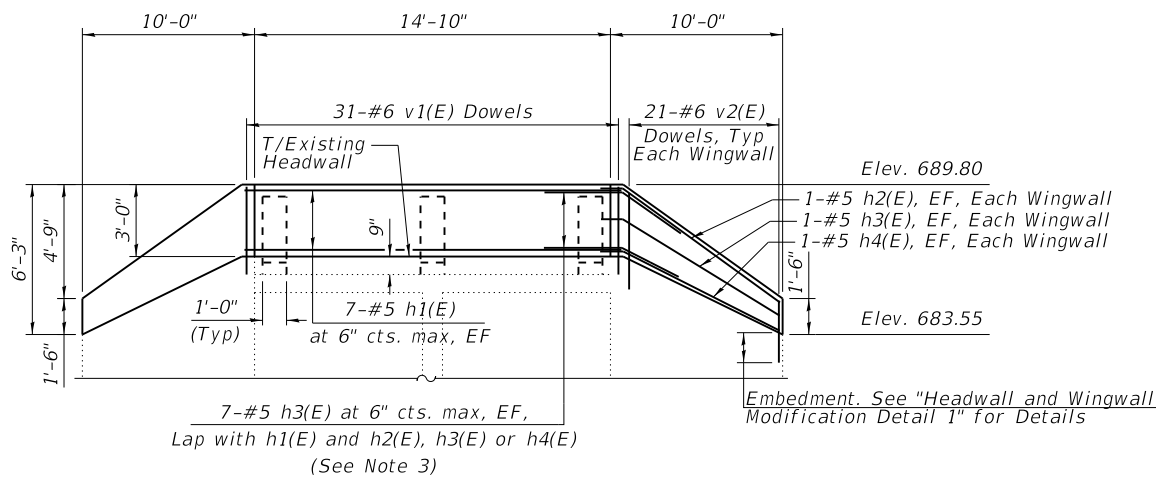
COMPENSATORY STORAGE GRADING DETAIL
 104TH AVENUE SHARED-USE PATH

SCALE: 1"=10' SHEET OF SHEETS STA. TO STA.

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CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

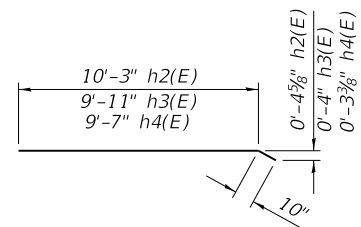


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Bicycle Railing not shown for clarity

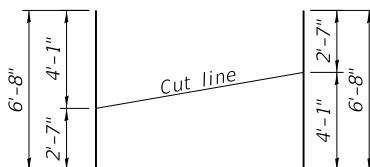


ELEVATION

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

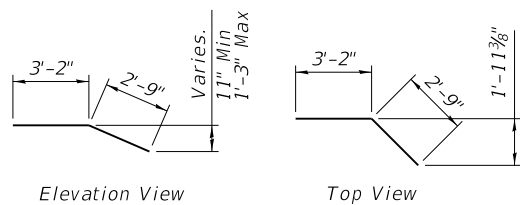


h2(E), h3(E), h4(E) bars



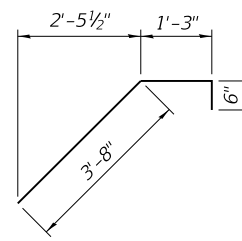
v2(E) bars

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

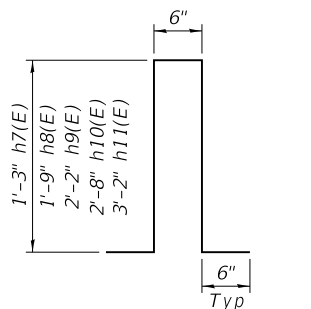


h5(E) bars

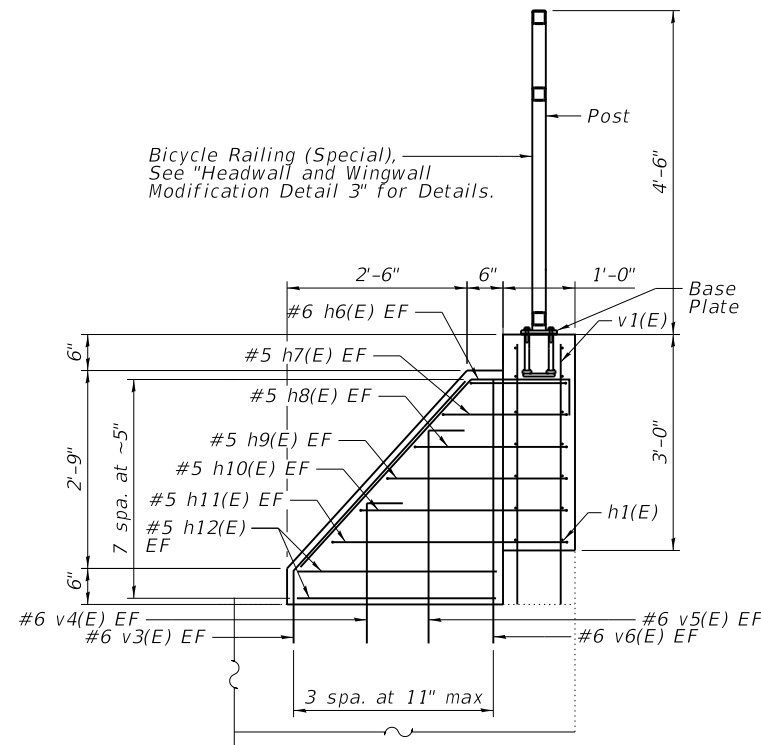
v4(E), v5(E) bars



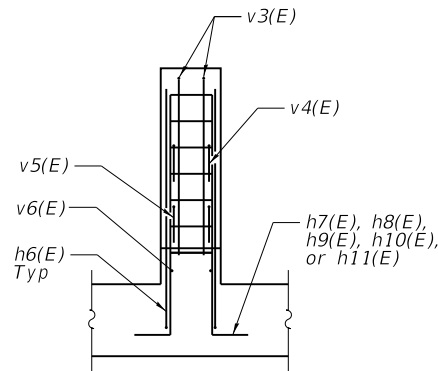
h6(E) bars



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 previous sheet.
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 base details on Sheet "HEADWALL AND WINGWALL MODIFICATION DETAIL 3".

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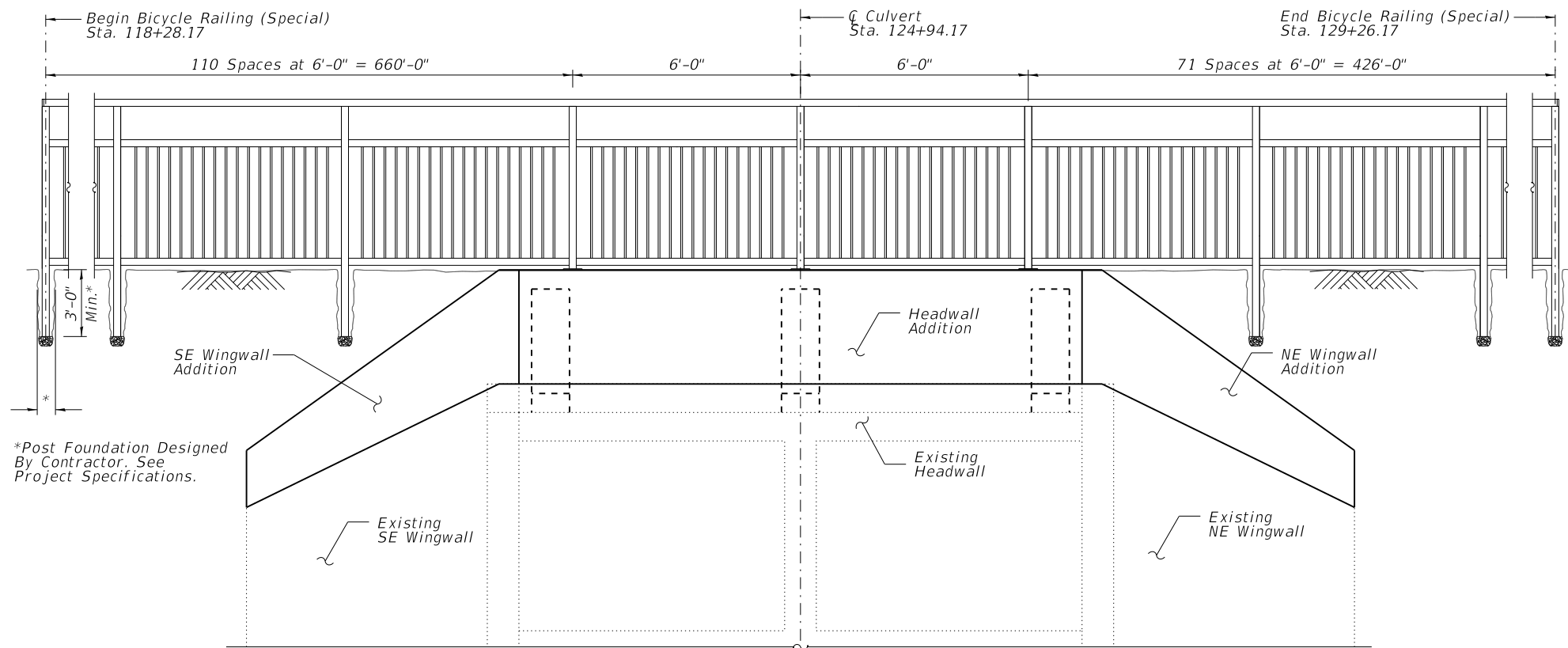
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VILLAGE OF ORLAND PARK

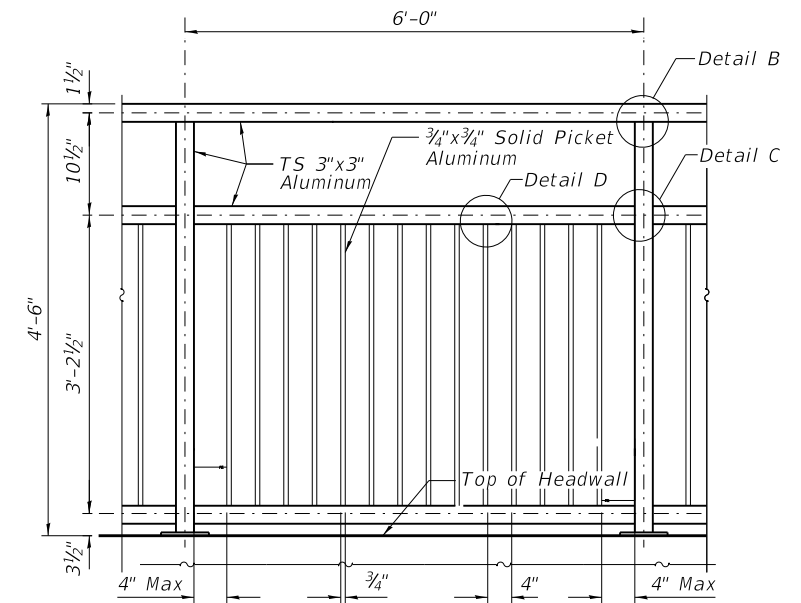
HEADWALL AND WINGWALL MODIFICATION DETAIL
104TH AVENUE BOX CULVERT AT STA 124+94.17

SCALE: N.T.S. SHEET 2 OF 3 SHEETS STA. TO STA.

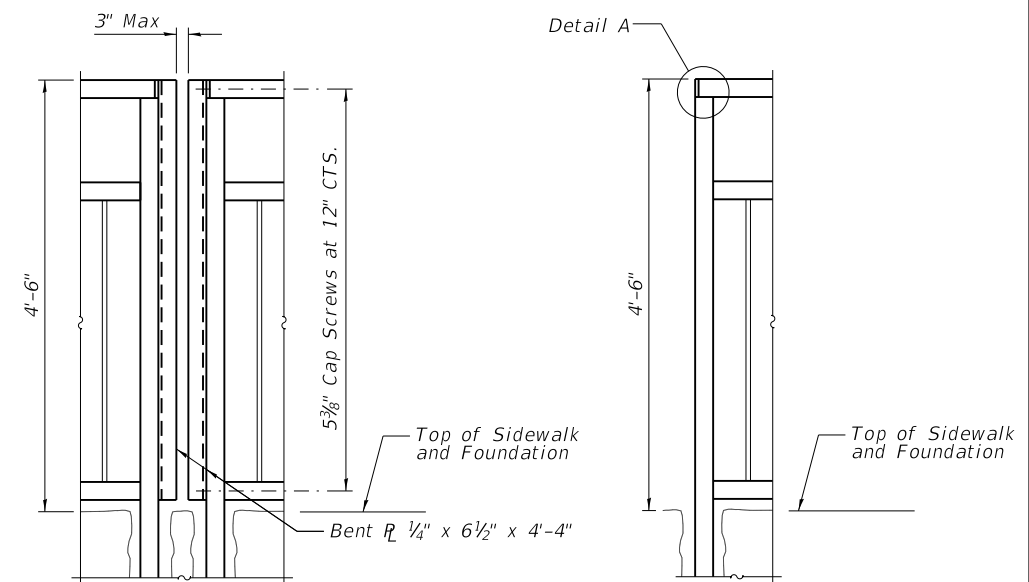
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CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



BICYCLE RAILING ELEVATION

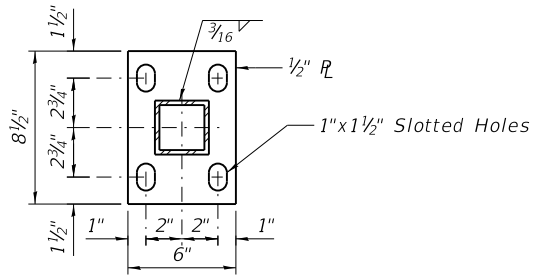


RAILING AT HEADWALL

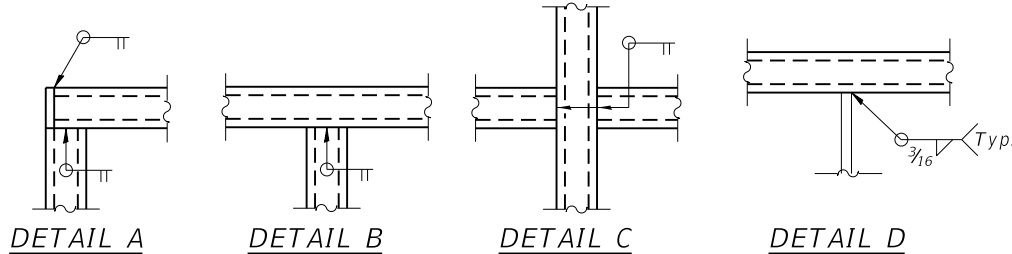


RAILING AT JOINTS
Expansion Joint Detail As Required
Per Manufacturer's Standard

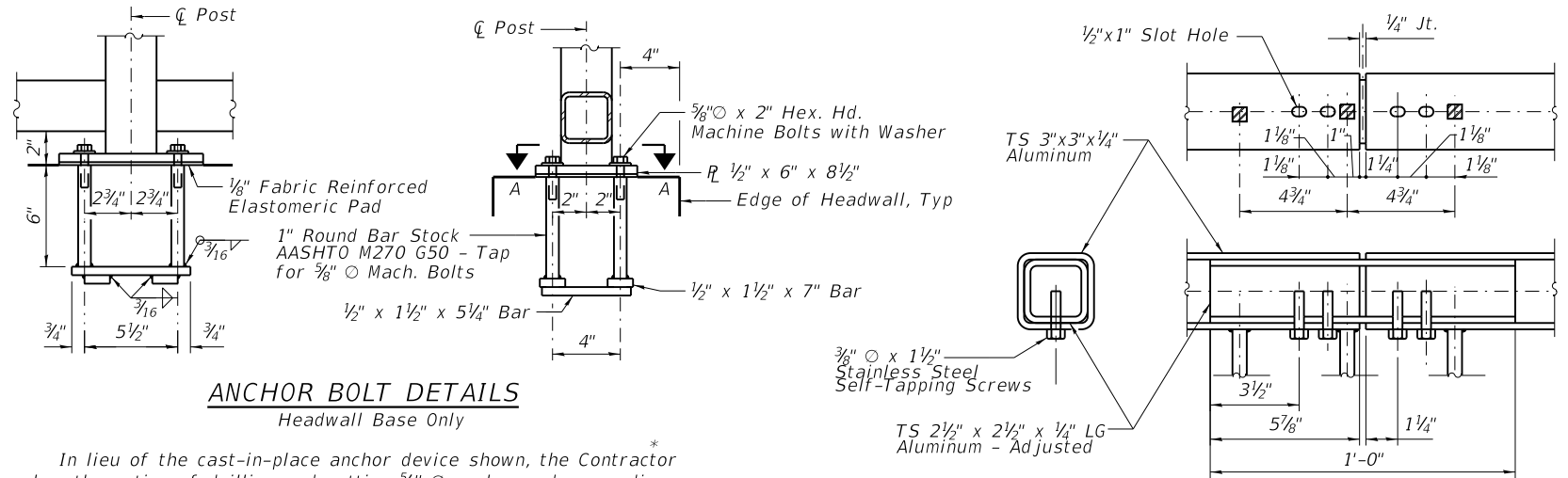
RAILING ENDS



SECTION A-A



DETAIL A DETAIL B DETAIL C DETAIL D



ANCHOR BOLT DETAILS
Headwall Base Only

RAIL SPLICE

BILL OF MATERIAL

ITEM	UNIT	TOTAL QUANTITY
Bicycle Railing (Special)	FOOT	1,098

NOTES

- Bicycle railings shall be according to section 509 of the IDOT Standard Specifications, except as noted.
- All tubing will be aluminum alloy 6063-T52.
- All dimensions are in feet and inches except as noted.
- All posts, railing shall be painted in accordance with section 506 of the IDOT Standard Specifications.
- All rail will be sandblasted per SSPC-SP6 followed by shop applied primer and top coat as follows:
3.00 MILS DFT TNEMEC L69-Hi-build epoxyline II epoxy interim coat, then
2.00 MILS DFT TNEMEC 73-Color aliphatic acrylic polyurethane topcoat - black.
- All bolts, nuts and washers shall be stainless steel.
- Shop drawings based on individual project plan view locations must be submitted to the resident engineer for approval.
- Foundations 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.

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

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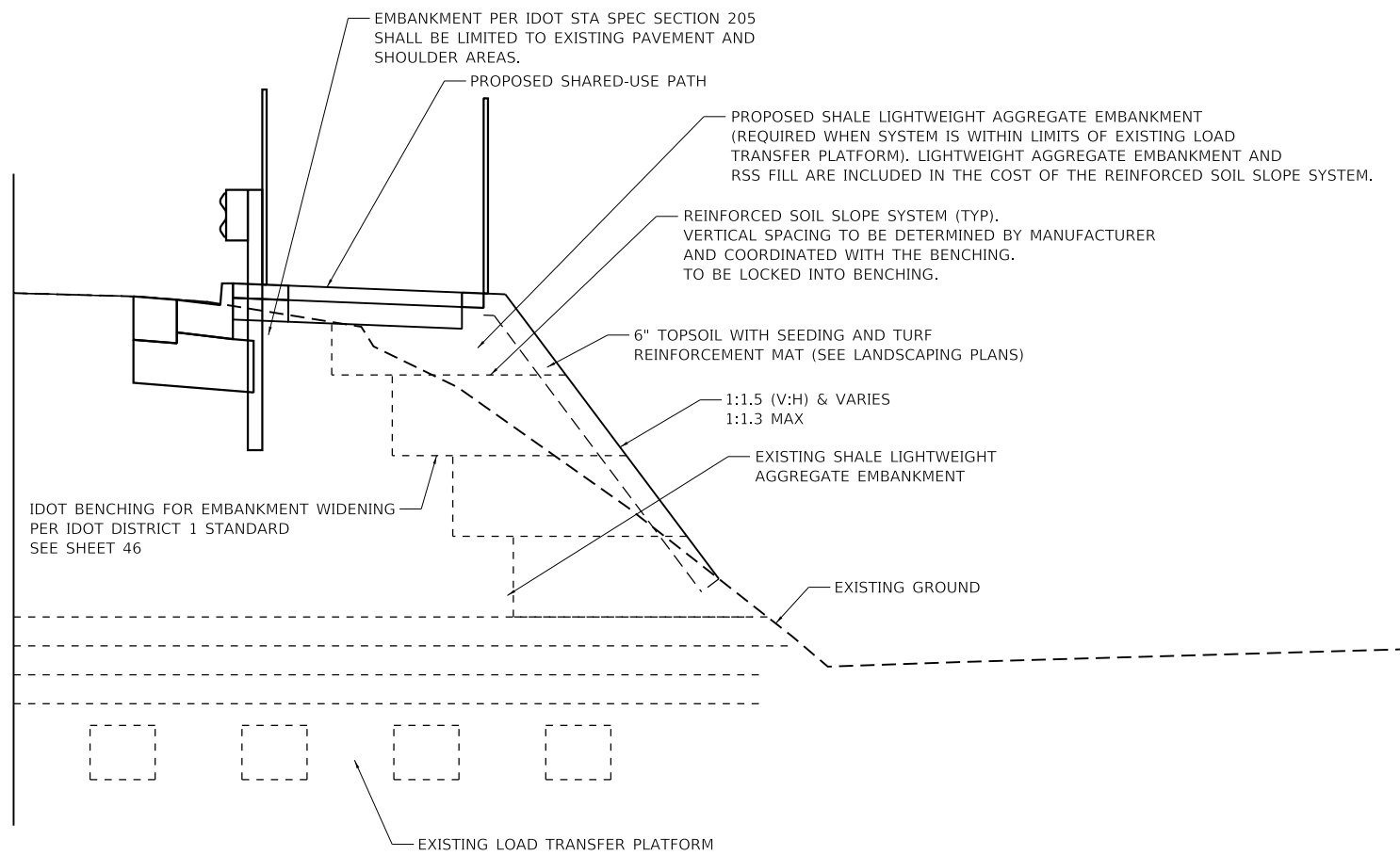
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PLOT DATE = 4/5/2022	CHECKED - RH	REVISED -
	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

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

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	84	41
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\100000001\2022\03_CADD\01_Sheets\Civil\14202_104thPath_Construction_Detail_L.dgn

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

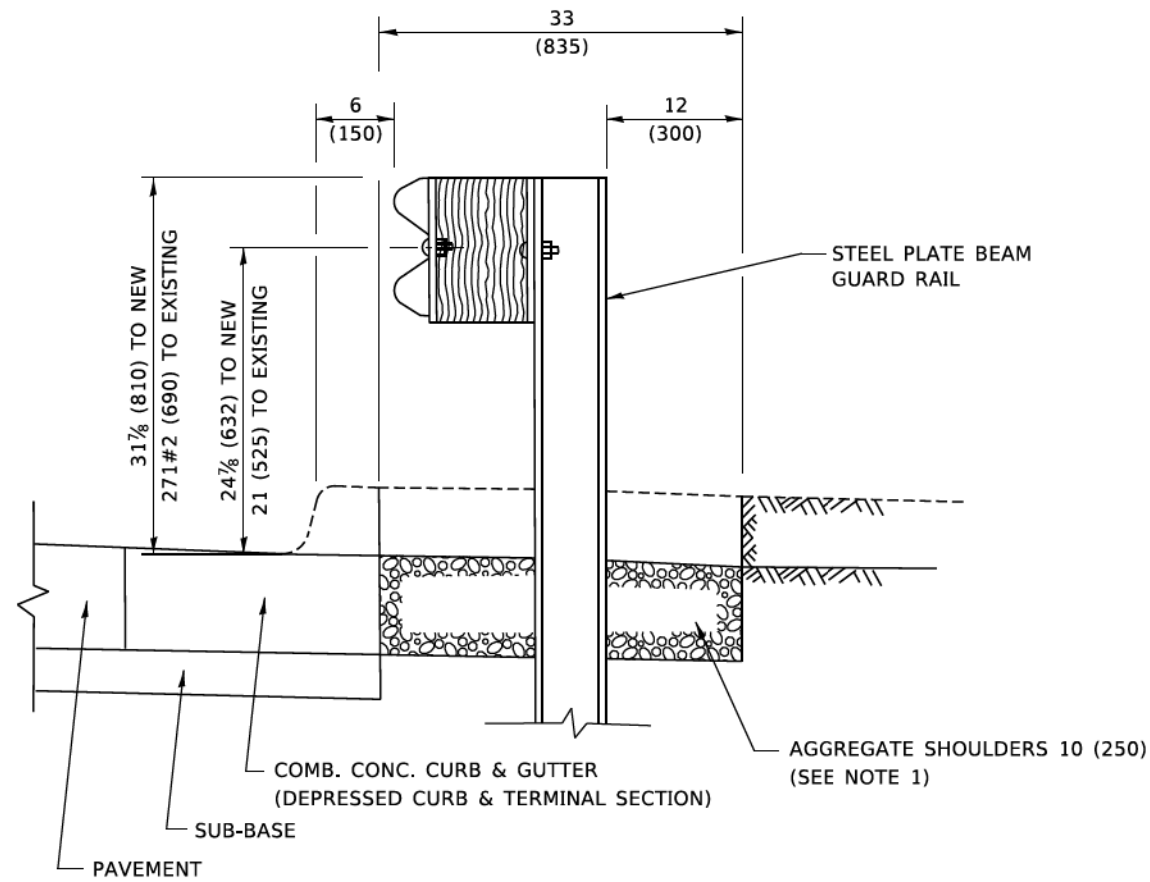
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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 4/6/2022	CHECKED -	REVISED -
	DATE - 4/6/2022	REVISED -

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	84	42
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				



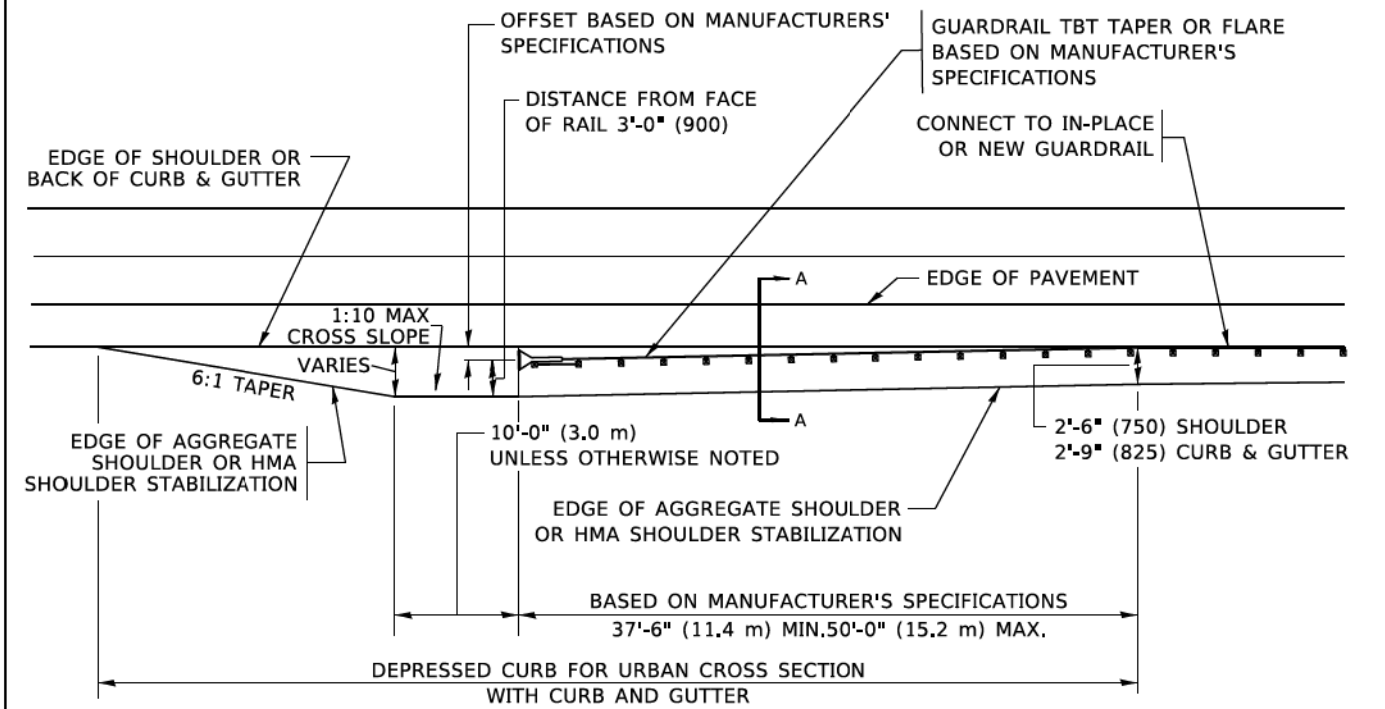
SECTION A-A

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.

MODEL: Default
FILE NAME: I:\CHUPR\00001420203_CADD\01_Sheets\Civil\14202_104thRte\IDOT D1_Standards_2.dgn
PROJECT: I:\CHUPR\00001420203_CADD\01_Sheets\Civil\14202_104thRte\IDOT D1_Standards_2.dgn

USER NAME = footemj	DESIGNED - M. DE YONG	REVISED - R. BORO 12-08-2008
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.	

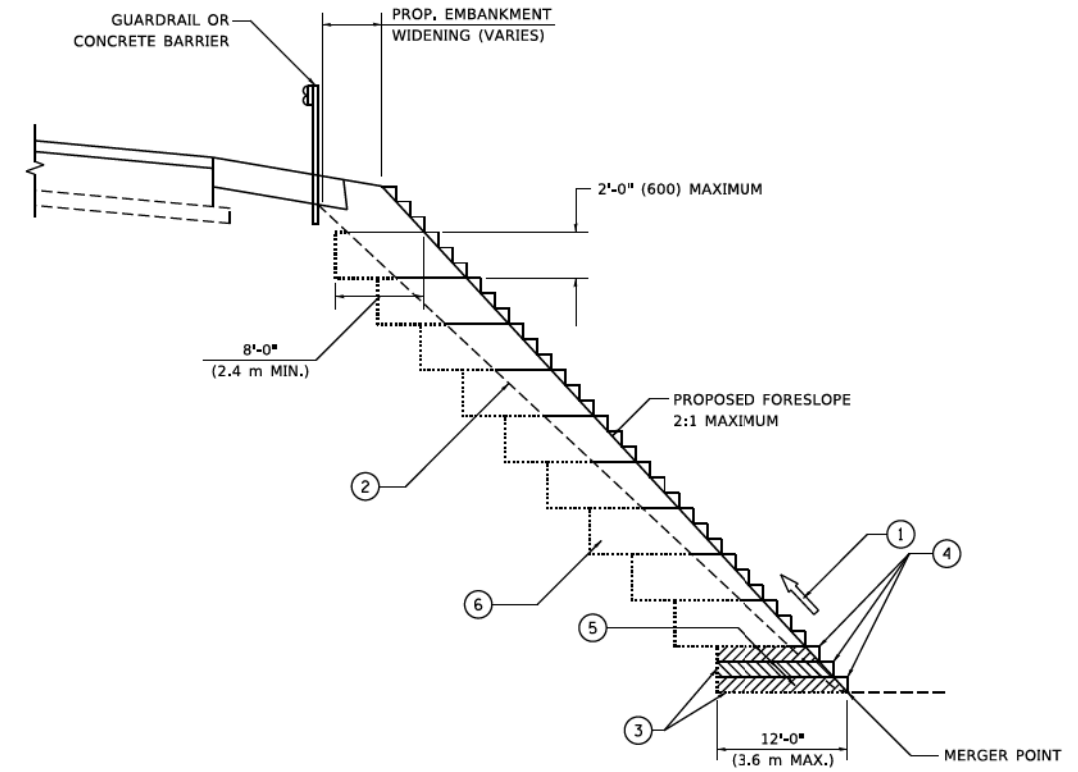
LOCHNER
CONSULTING ENGINEERS & PLANNERS
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606
312-372-3011 (P) / 312-372-5974 (F)

USER NAME = GG	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 4/5/2022	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	84	45
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			
		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

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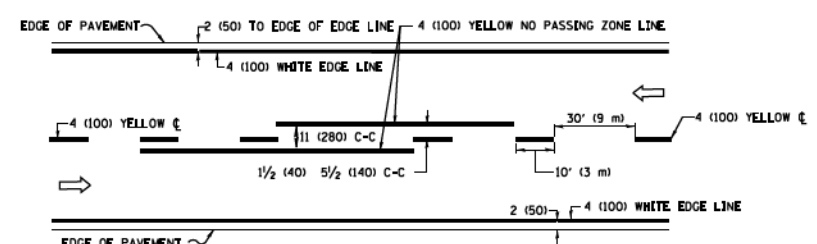
LOCHNER
CONSULTING ENGINEERS & PLANNERS
225 WEST WASHINGTON STREET 12TH FLOOR
CHICAGO, IL 60606
312-372-3011 (P) / 312-372-5974 (F)

USER NAME = GG	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISED -

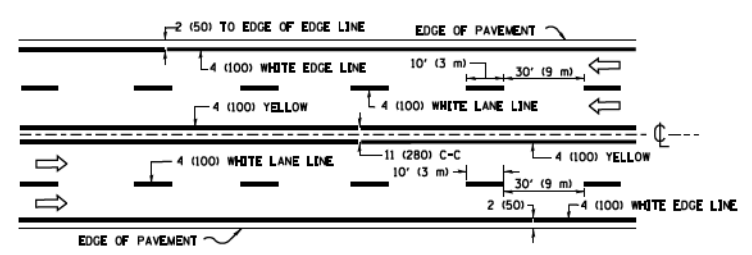
VILLAGE OF ORLAND PARK

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

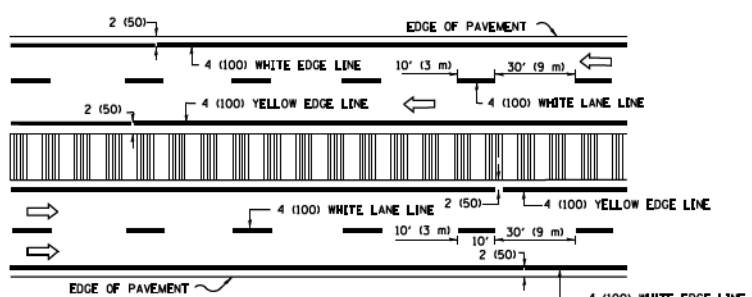
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	15-00077-00-BT	COOK	84	46
		CONTRACT NO. 61H84		
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

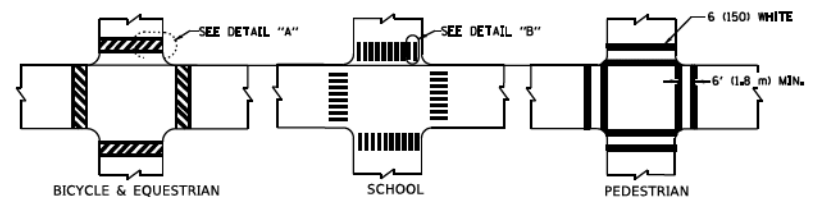


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

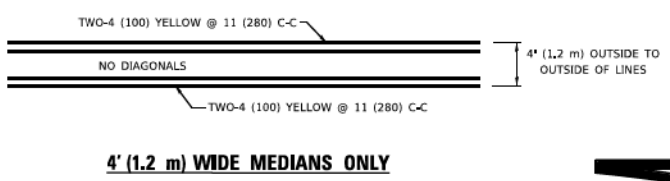


DETAIL "A"

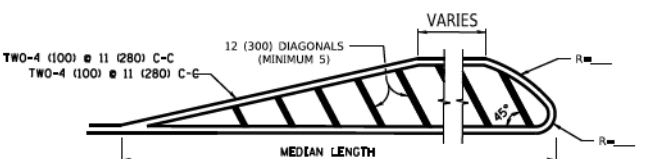
DETAIL "B"

TYPICAL CROSSWALK MARKING

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

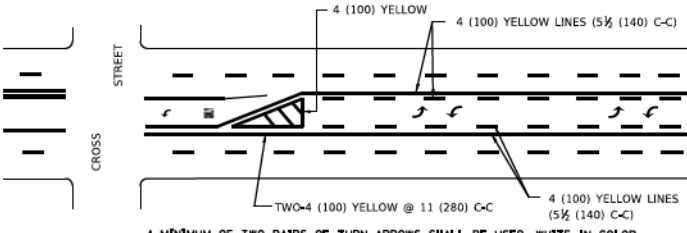


4' (1.2 m) WIDE MEDIANS ONLY



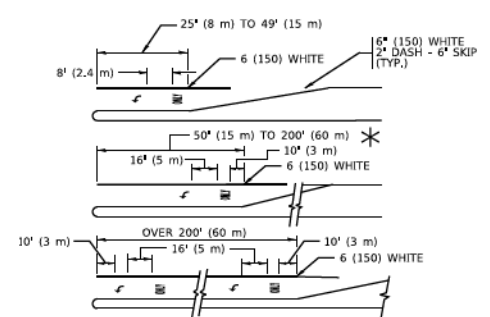
MEDIANS OVER 4' (1.2 m) WIDE

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



MEDIAN WITH TWO-WAY LEFT TURN LANE

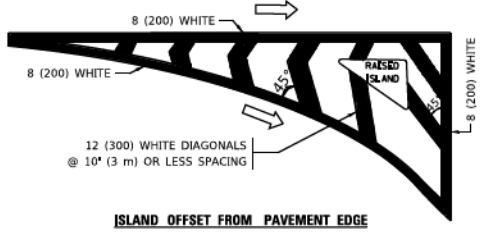
TYPICAL PAINTED MEDIAN MARKING



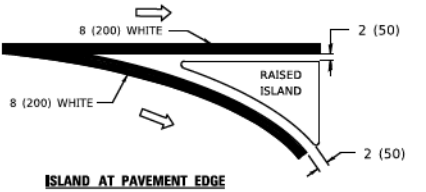
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* 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

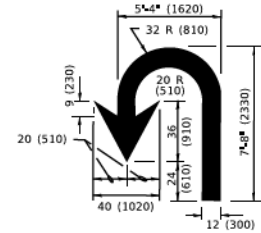


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

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			
SCALE: NONE	SHEET 1 OF 2 SHEETS	STA. TO STA.	

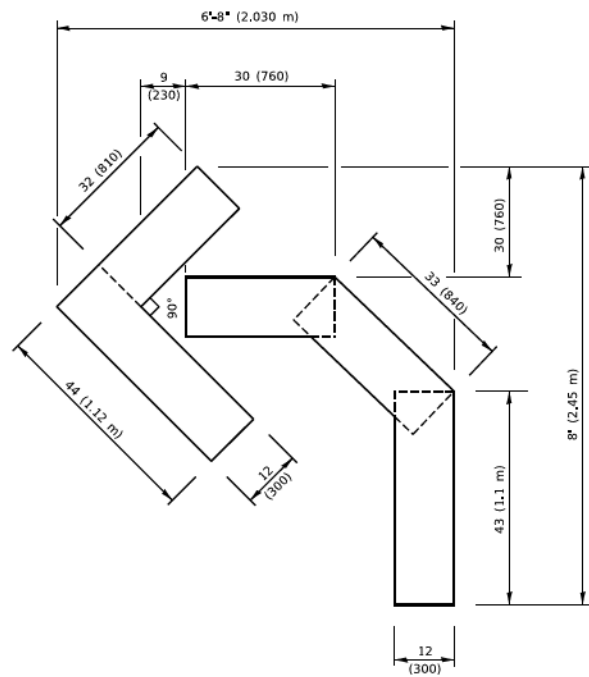
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TC-13				CONTRACT NO.
ILLINOIS				FED. AID PROJECT

USER NAME = GG	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 4/5/2022	CHECKED -	REVISED -
	DATE - 4/6/2022	REVISED -

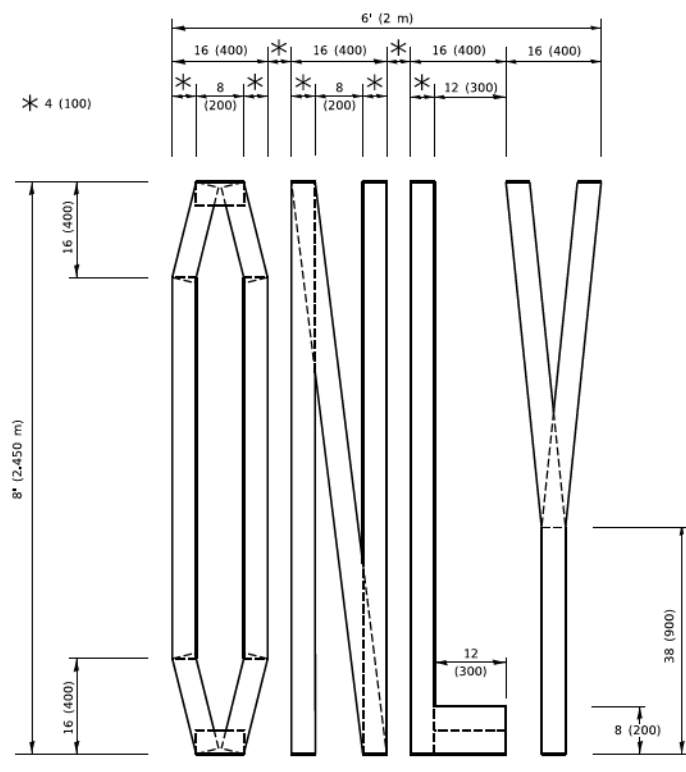
VILLAGE OF ORLAND PARK

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

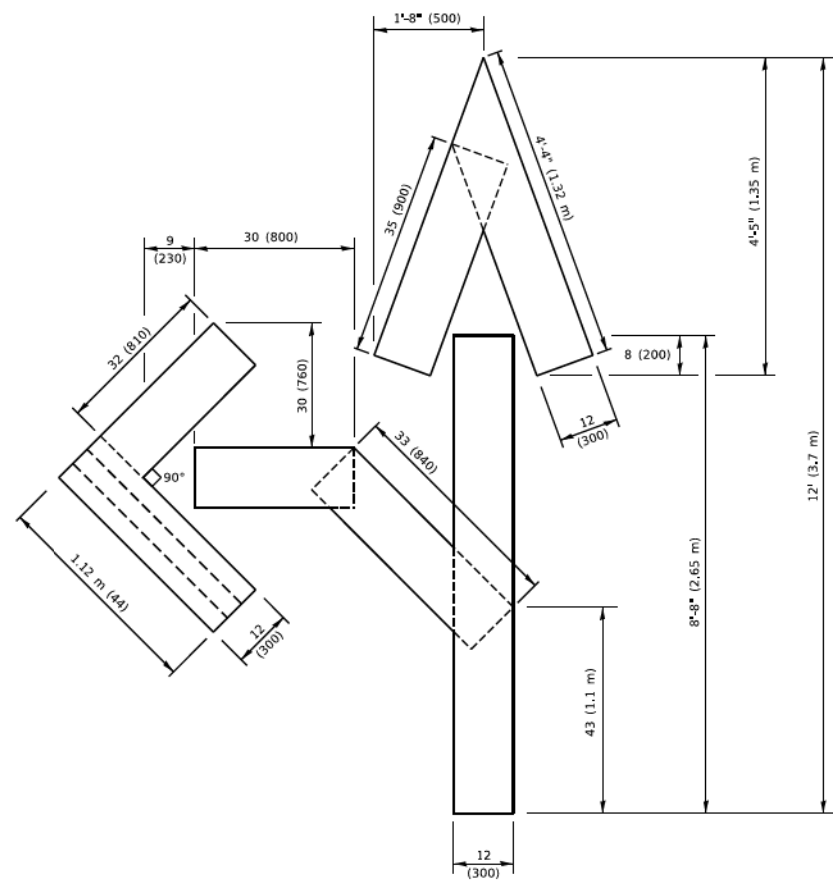
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	48
				CONTRACT NO. 61H84
ILLINOIS				FED. AID PROJECT



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

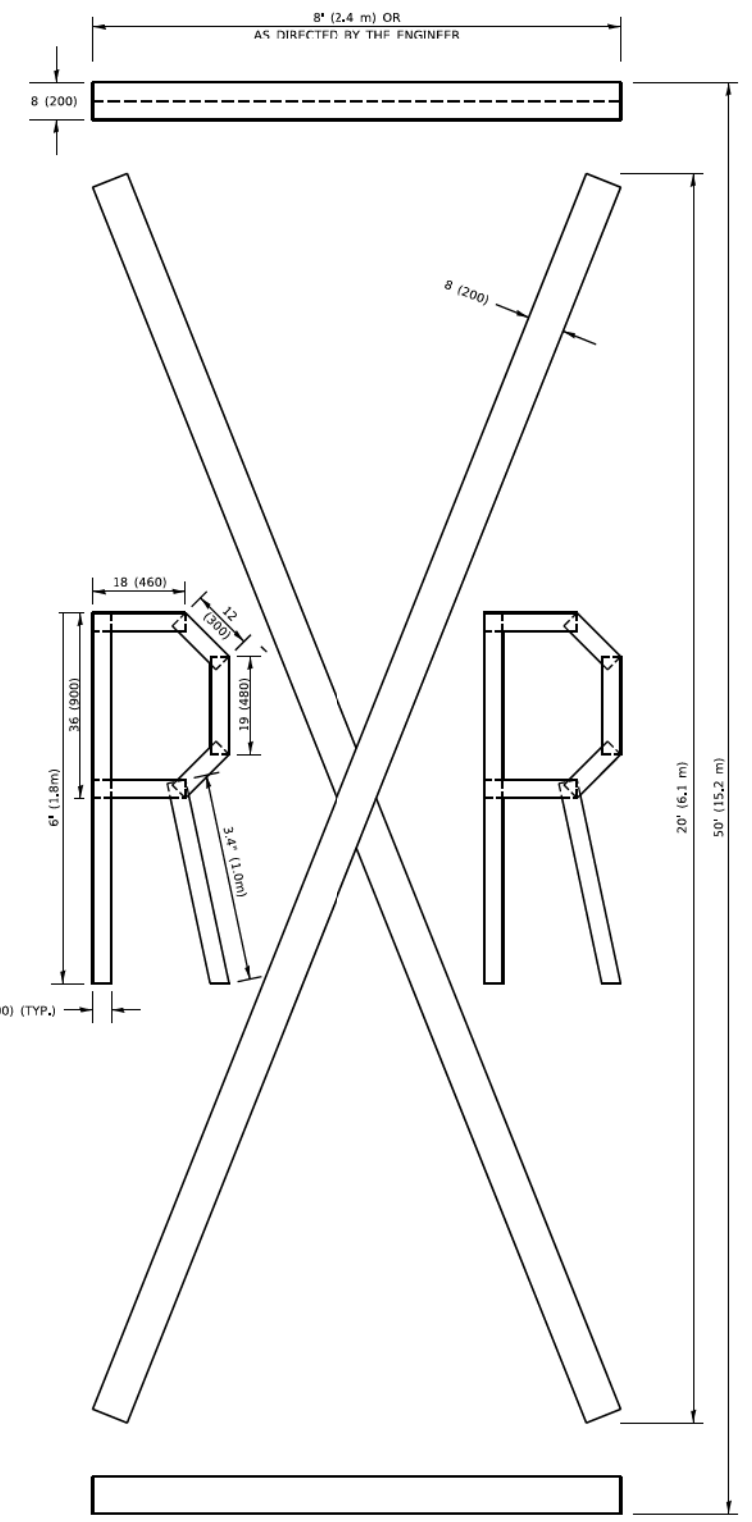


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



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

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.



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.

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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

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

MODEL: Defaul... FILE NAME: I:\A\1084848\BID\TEC\... I:\projects\IDOT\Documents\IDOT_011\est\IDOT\... I:\projects\IDOT\Documents\IDOT_011\est\IDOT\...

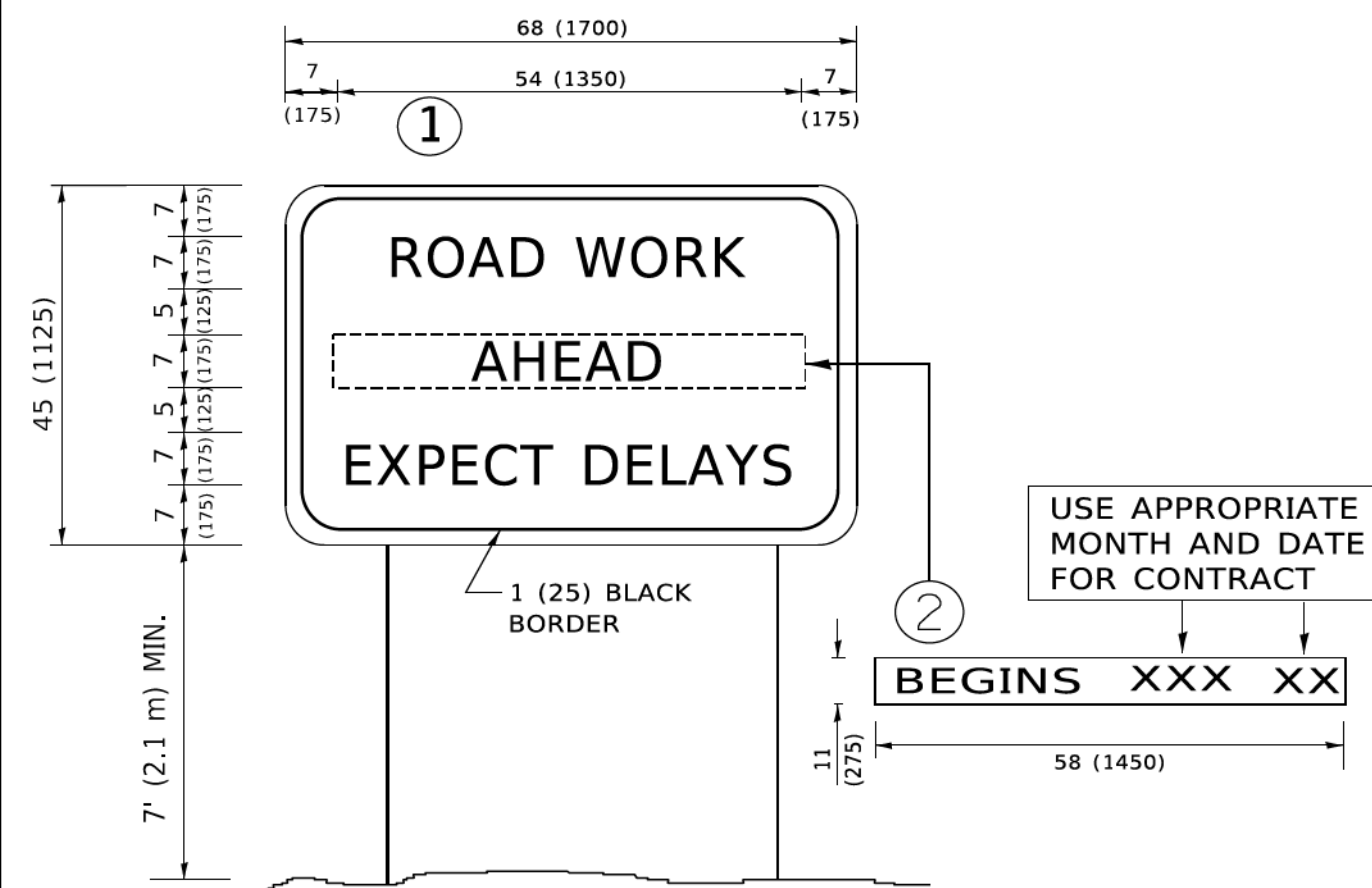
LOCHNER
 CONSULTING ENGINEERS & PLANNERS
 225 WEST WASHINGTON STREET 12TH FLOOR
 CHICAGO, IL 60606
 312-372-3011 (P) / 312-372-5974 (F)

USER NAME = GG	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 4/5/2022	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	84	49
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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USER NAME = footej	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							
PLOT DATE = 3/4/2019	CHECKED -	REVISED - T, RAMMACHER 02-02-99							
	DATE -	REVISED - C, JUCIUS 01-31-07							
				SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.
				TC-22		CONTRACT NO.			
				ILLINOIS FED. AID PROJECT					

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USER NAME = GG	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 4/5/2022	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.	
			15-00077-00-BT	COOK	84	50	
			CONTRACT NO. 61H84				
		ILLINOIS FED. AID PROJECT					



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".

MODEL: Default
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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.	
PLOT SCALE = 50,0000 ' / 1"	CHECKED -	REVISED -					TC-26			CONTRACT NO.		
PLOT DATE = 8/6/2021	DATE -	REVISED -		SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

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

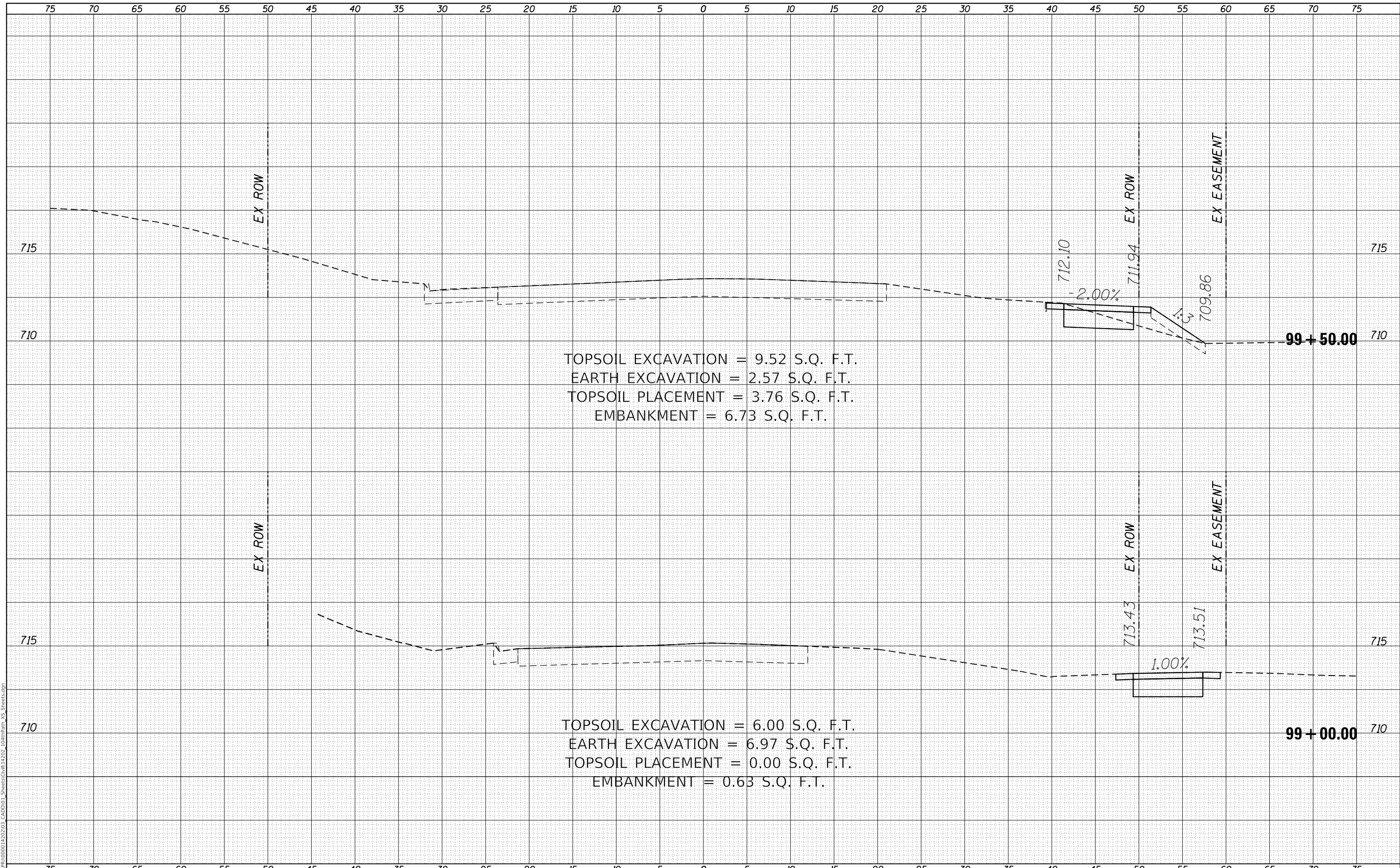
USER NAME = GG	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISED -

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	84	51
						CONTRACT NO. 61H84				
						ILLINOIS FED. AID PROJECT				

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

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

MODEL: Defaul
 FILE NAME: R:\CADD\14202\14202\03_CADD\01_Sheets\Grid\14202_14202_14202.dwg



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USER NAME = GG	DESIGNED - GG	REVISD -
	DRAWN - GG	REVISD -
PLOT SCALE =	CHECKED - AM	REVISD -
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISD -

VILLAGE OF ORLAND PARK

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

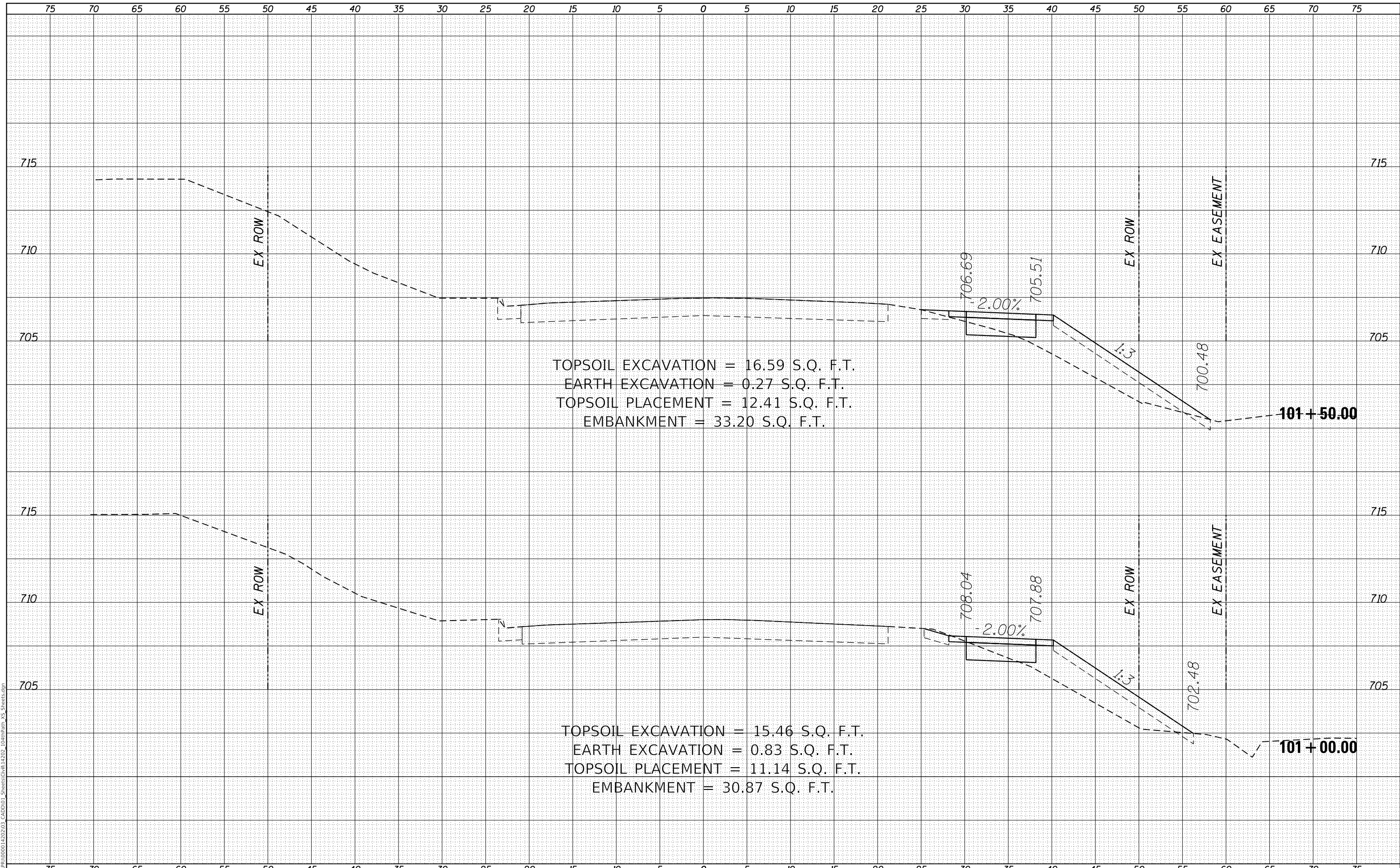
SCALE: 1"=10'H, 20'V SHEET 1 OF 32 SHEETS STA. 99+00.00 TO STA. 99+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	53
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: Defaulr
 FILE NAME: R:\CADD\1000014202\03_CADD\01_Sheets\Civil\14202_104thPath_VS_Sheets.dgn



TOPSOIL EXCAVATION = 16.59 S.Q. F.T.
 EARTH EXCAVATION = 0.27 S.Q. F.T.
 TOPSOIL PLACEMENT = 12.41 S.Q. F.T.
 EMBANKMENT = 33.20 S.Q. F.T.

TOPSOIL EXCAVATION = 15.46 S.Q. F.T.
 EARTH EXCAVATION = 0.83 S.Q. F.T.
 TOPSOIL PLACEMENT = 11.14 S.Q. F.T.
 EMBANKMENT = 30.87 S.Q. F.T.

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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

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

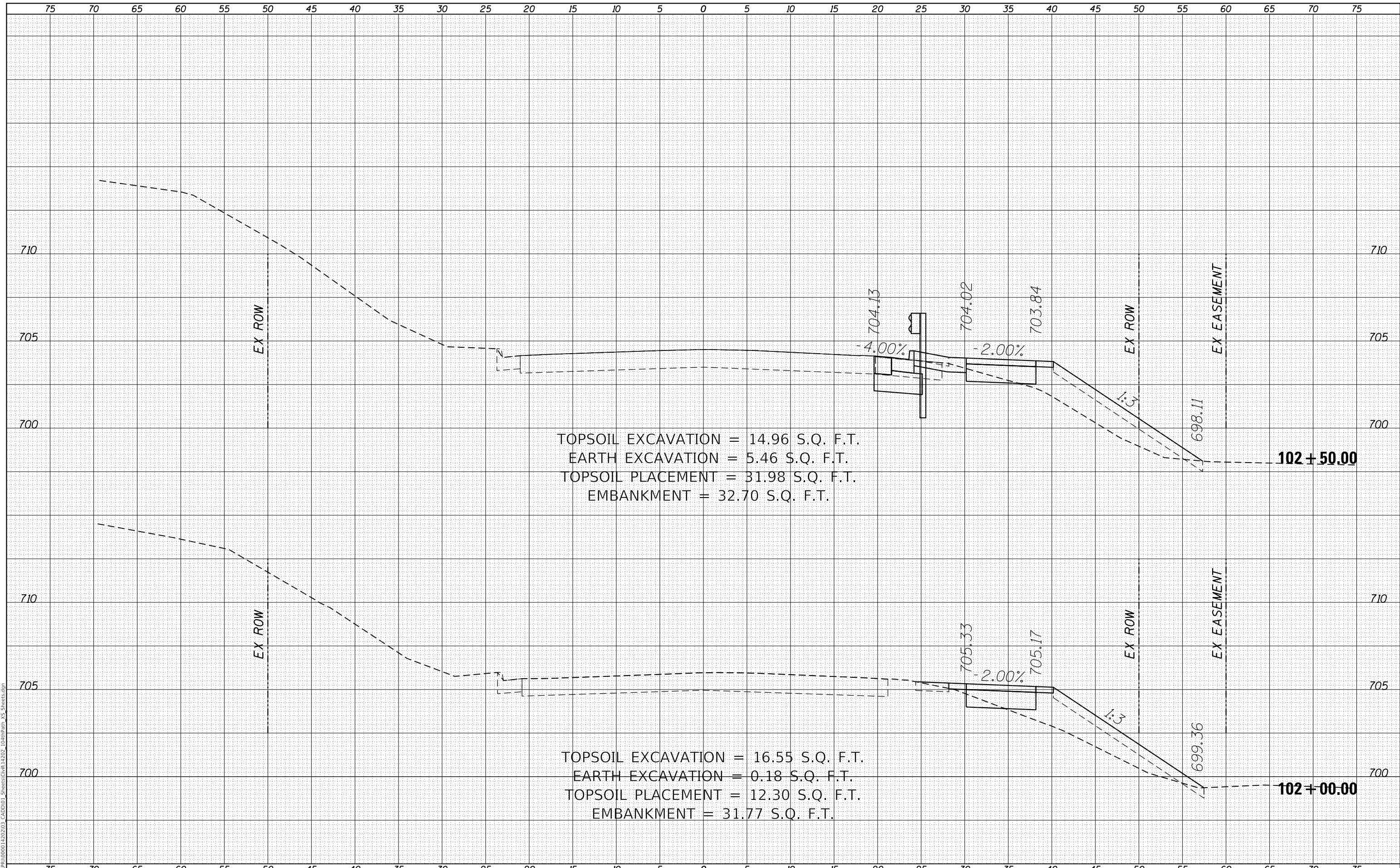
SCALE: 1"=10'H, 20'V SHEET 3 OF 32 SHEETS STA. 101+00.00 TO STA. 101+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	55
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: Defaulr
 FILE NAME: R:\CADD\150001\15001-15002\03_CADD\01_Sheets\Grid\14202_104thPath_VS_Sheets.dgn



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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

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

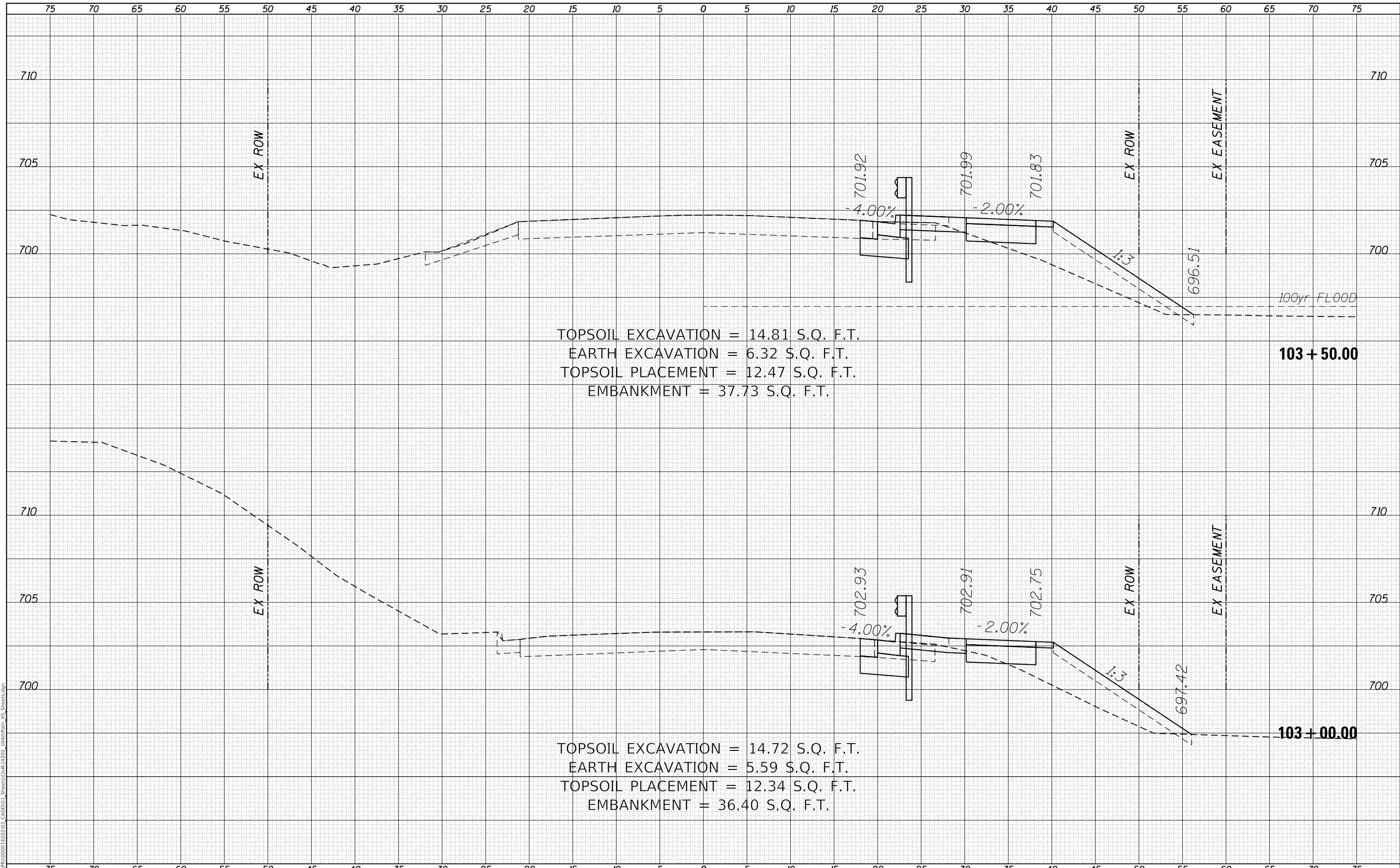
SCALE: 1"=10'H, 20'V SHEET 4 OF 32 SHEETS STA. 102+00.00 TO STA. 102+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	56
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Defaul
 FILE NAME: R:\CADD\150001\2022\03_CADD\01_Sheets\Civil\14202_104thPath_VS_Sheets.dgn



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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

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

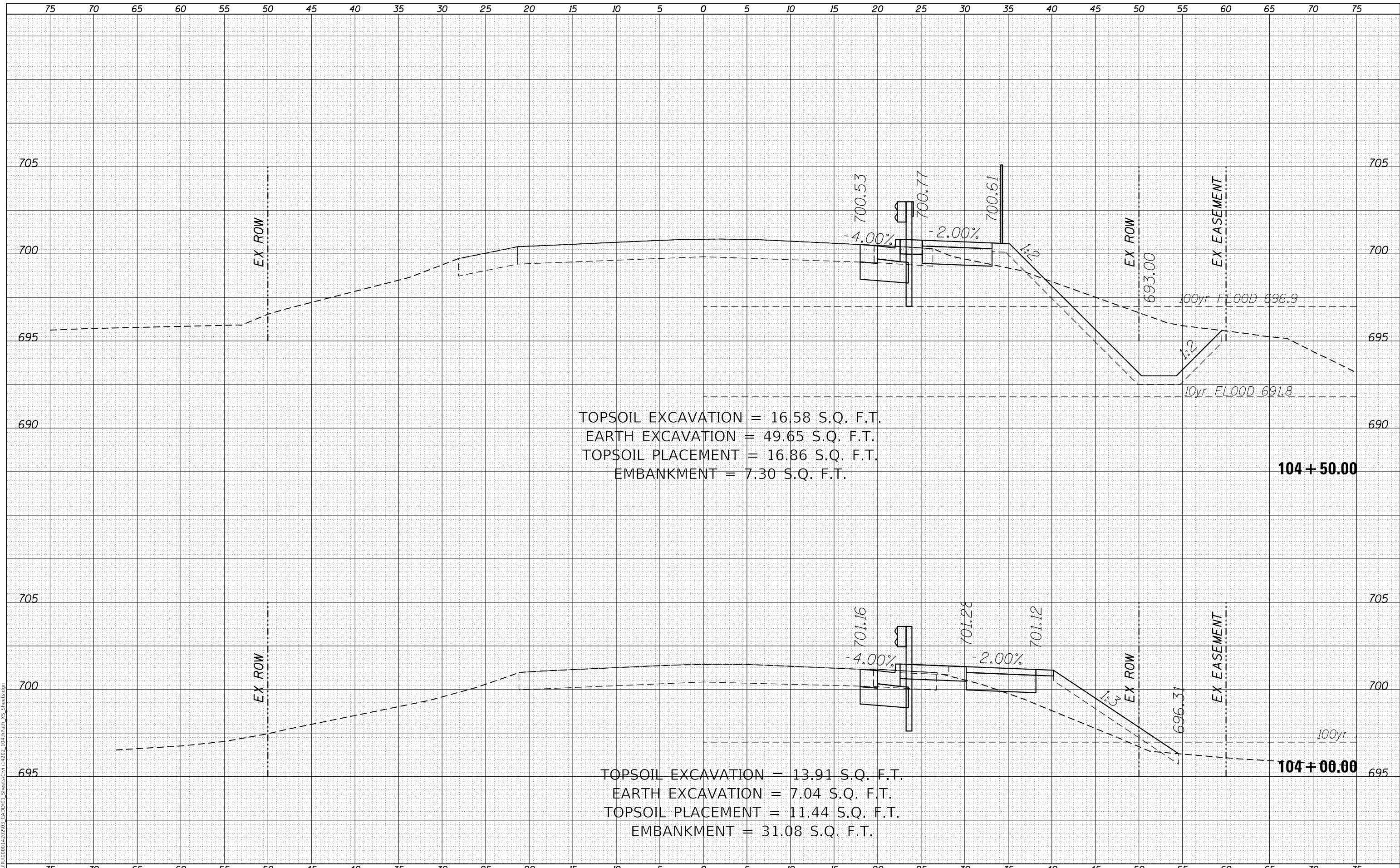
SCALE: 1"=10'H, 20'V SHEET 5 OF 32 SHEETS STA. 103+00.00 TO STA. 103+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	57
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



TOPSOIL EXCAVATION = 16.58 S.Q. F.T.
 EARTH EXCAVATION = 49.65 S.Q. F.T.
 TOPSOIL PLACEMENT = 16.86 S.Q. F.T.
 EMBANKMENT = 7.30 S.Q. F.T.

TOPSOIL EXCAVATION = 13.91 S.Q. F.T.
 EARTH EXCAVATION = 7.04 S.Q. F.T.
 TOPSOIL PLACEMENT = 11.44 S.Q. F.T.
 EMBANKMENT = 31.08 S.Q. F.T.

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USER NAME = GG	DESIGNED - GG	REVISD -
	DRAWN - GG	REVISD -
PLOT SCALE =	CHECKED - AM	REVISD -
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISD -

VILLAGE OF ORLAND PARK

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

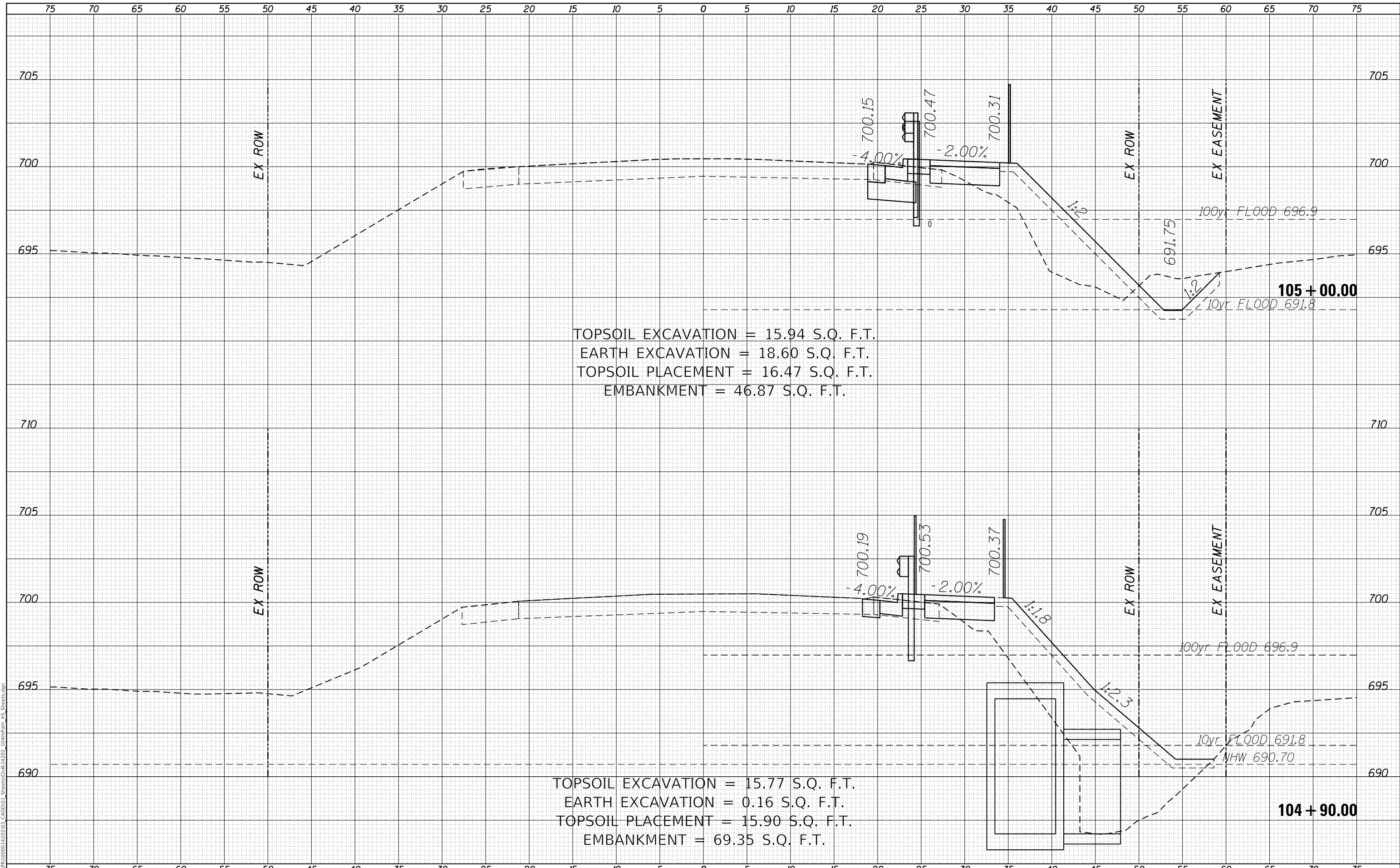
SCALE: 1"=10'H, 20'V SHEET 6 OF 32 SHEETS STA. 104+00.00 TO STA. 104+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	58
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
 FILE NAME: R:\CADD\14202\03_CADD\01_Sheets\Civil\14202_14thPath_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 = 4/5/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

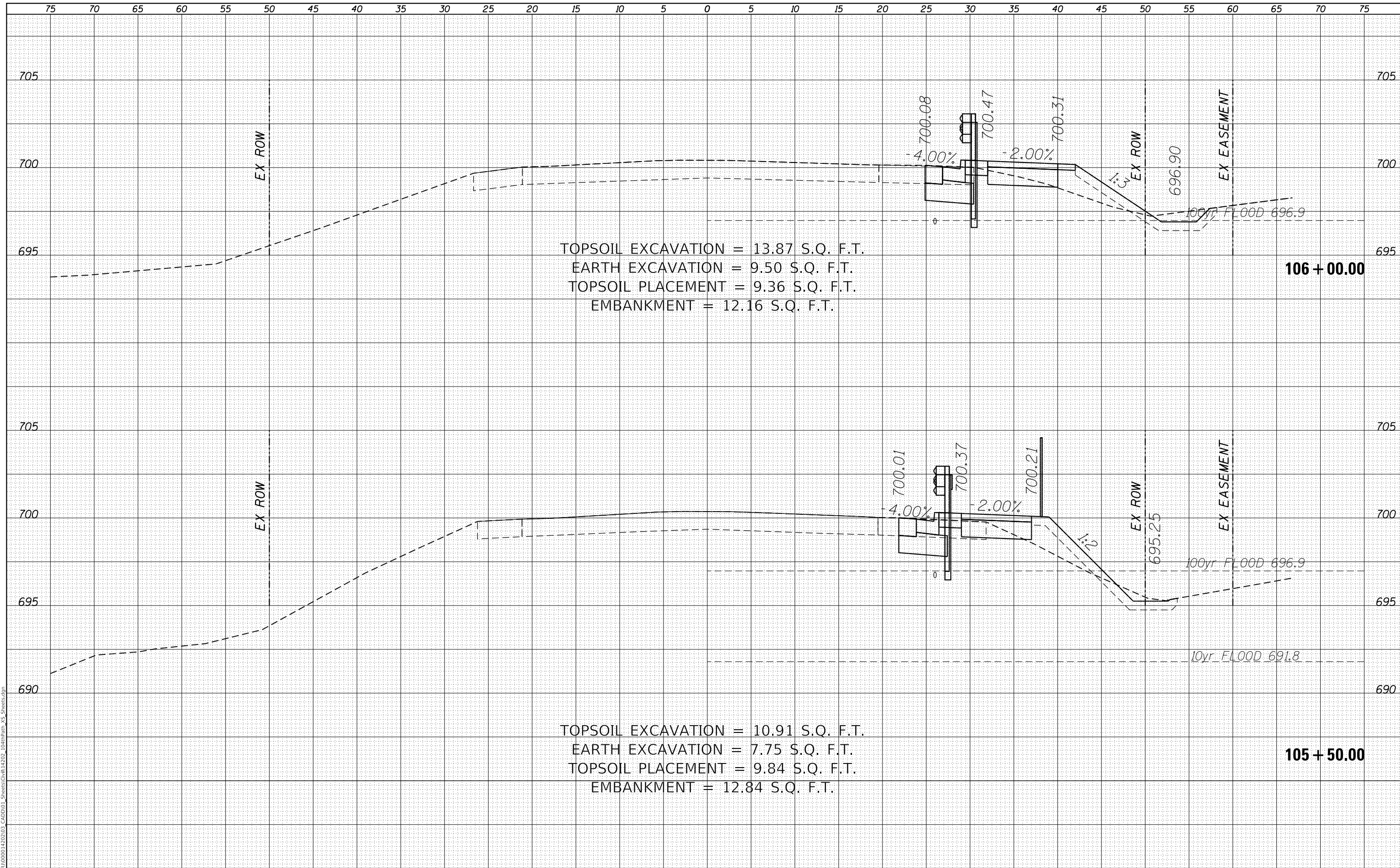
**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

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	84	59
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 = 4/5/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

CROSS SECTIONS
104TH AVENUE SHARED-USE PATH

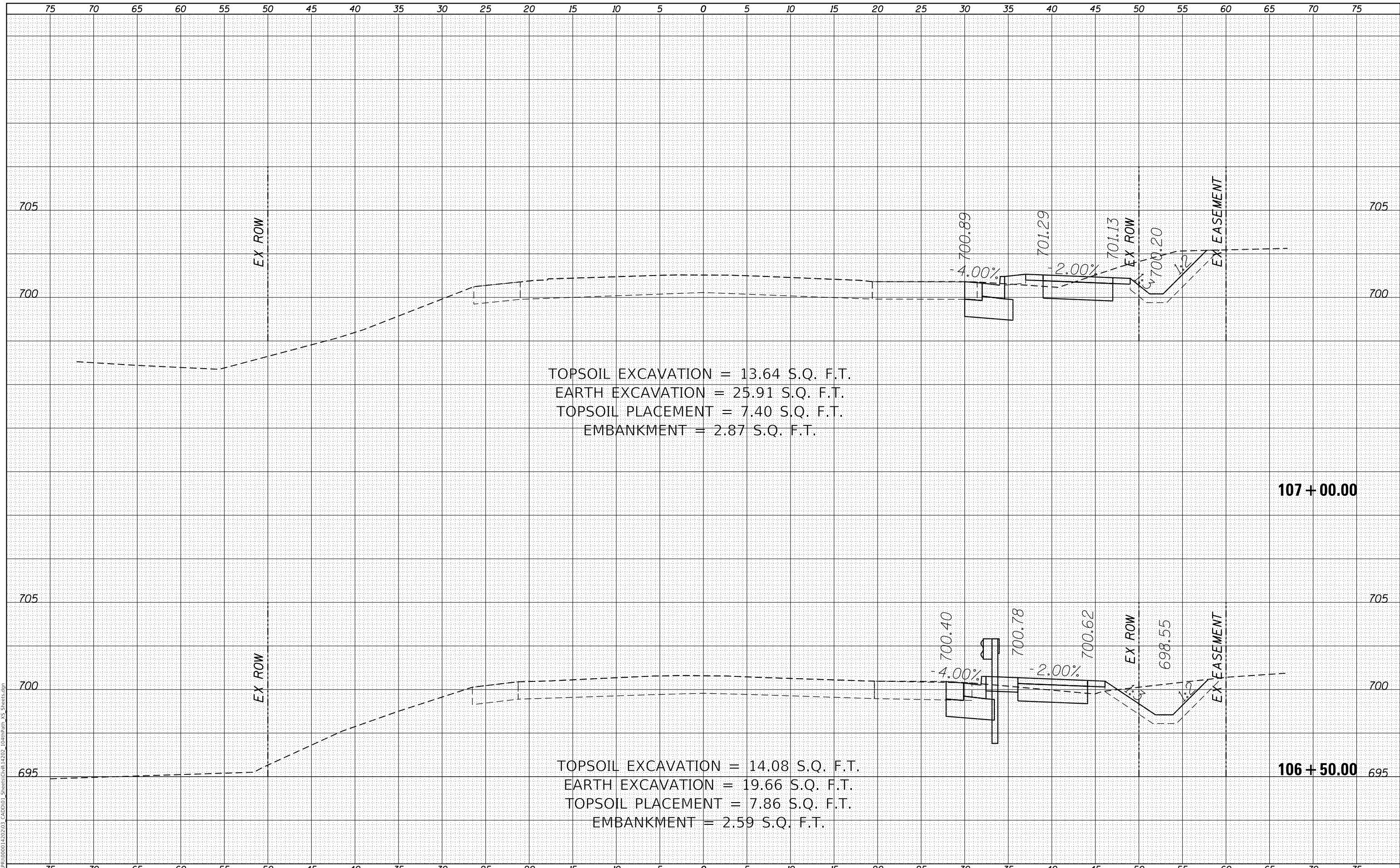
SCALE: 1"=10'H, 20'V SHEET 8 OF 32 SHEETS STA. 105+50.00 TO STA. 106+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	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: Definit
 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	REVISD -
	DRAWN - GG	REVISD -
PLOT SCALE =	CHECKED - AM	REVISD -
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISD -

VILLAGE OF ORLAND PARK

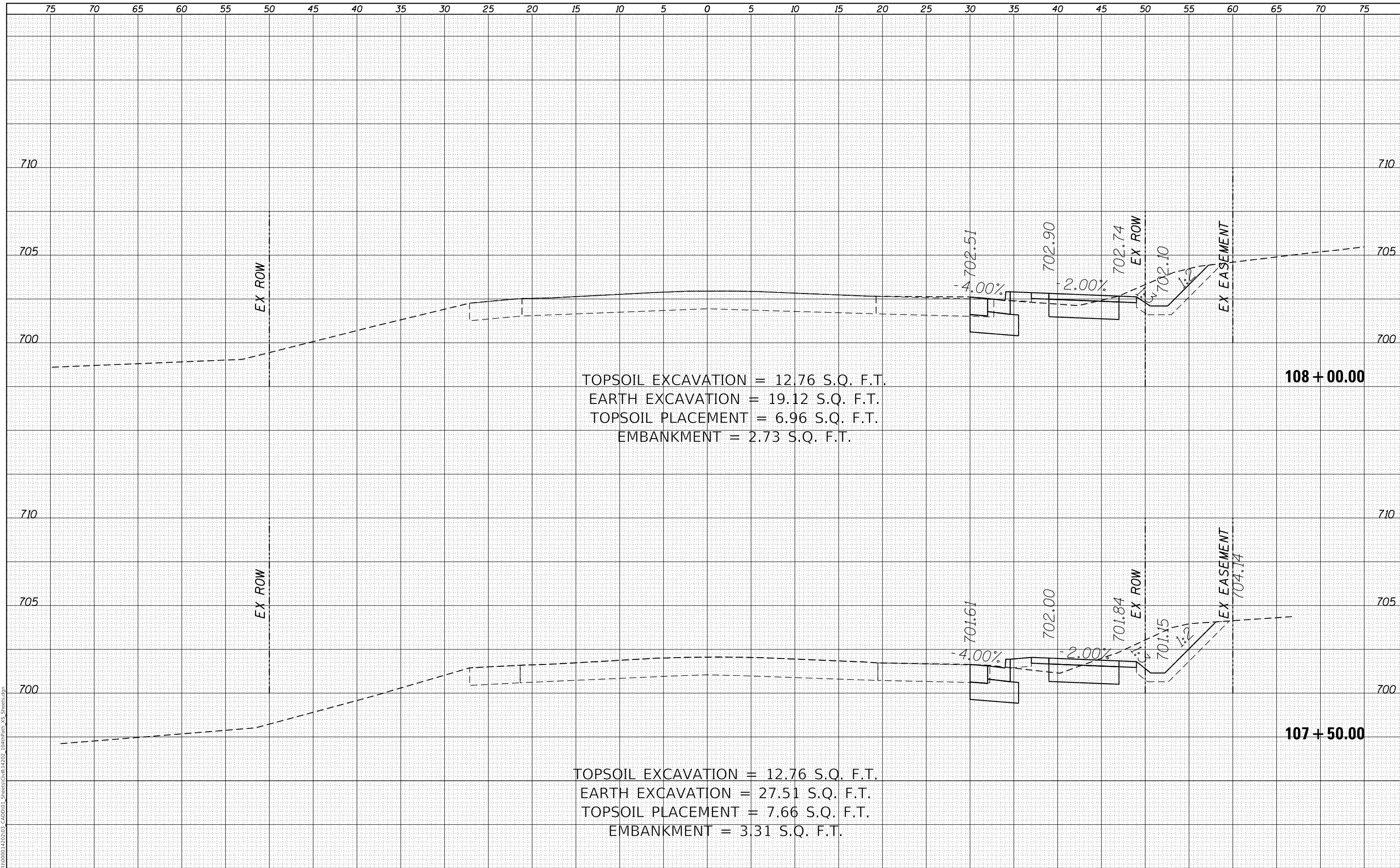
**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

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	84	61
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



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	REVISD -
	DRAWN - GG	REVISD -
PLOT SCALE =	CHECKED - AM	REVISD -
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISD -

VILLAGE OF ORLAND PARK

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

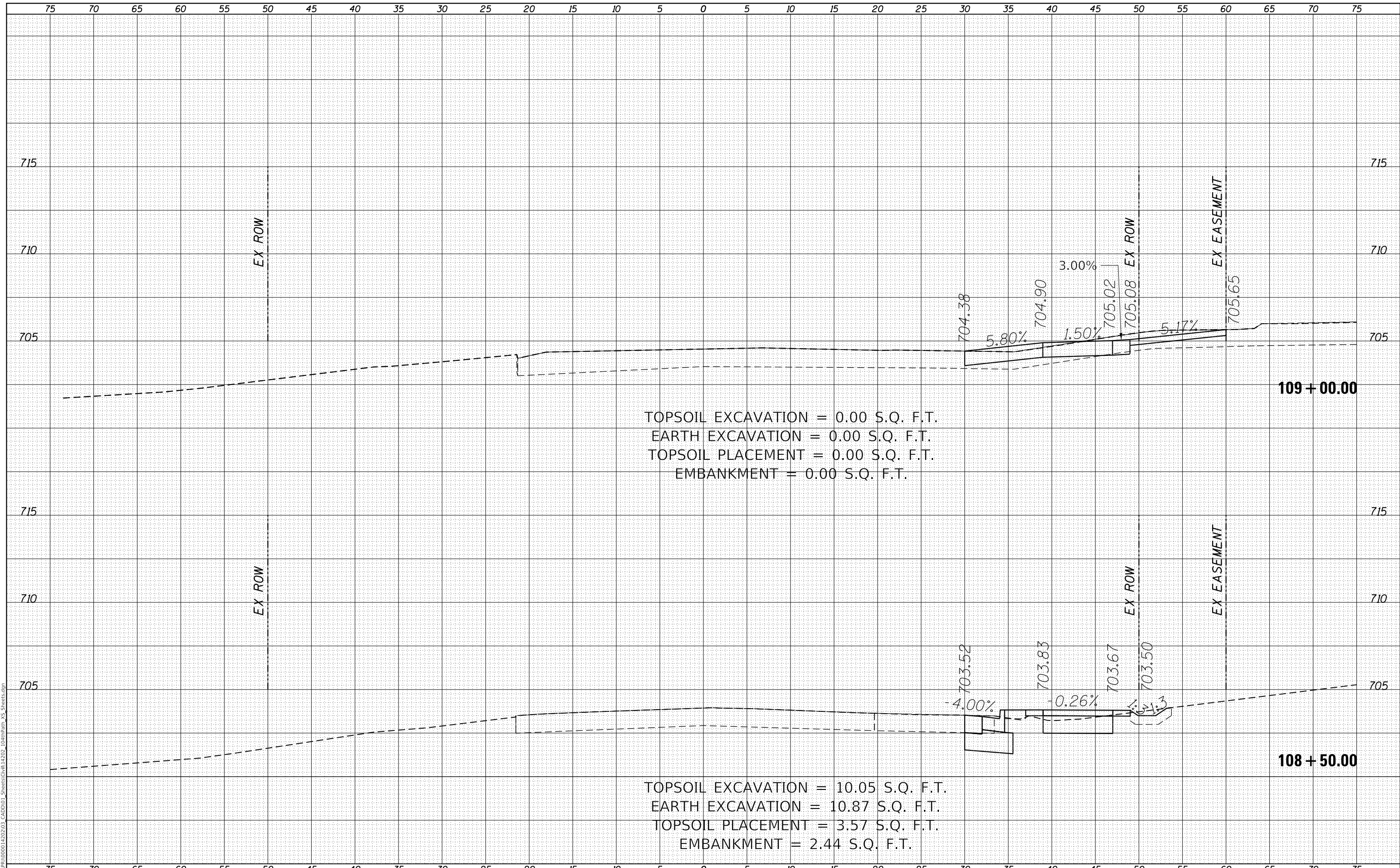
SCALE: 1"=10'H, 20'V SHEET 10 OF 32 SHEETS STA. 107+50.00 TO STA. 108+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	62
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_104rpath_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	REVISIONS
	DRAWN - GG	REVISIONS
PLOT SCALE =	CHECKED - AM	REVISIONS
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISIONS

VILLAGE OF ORLAND PARK

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

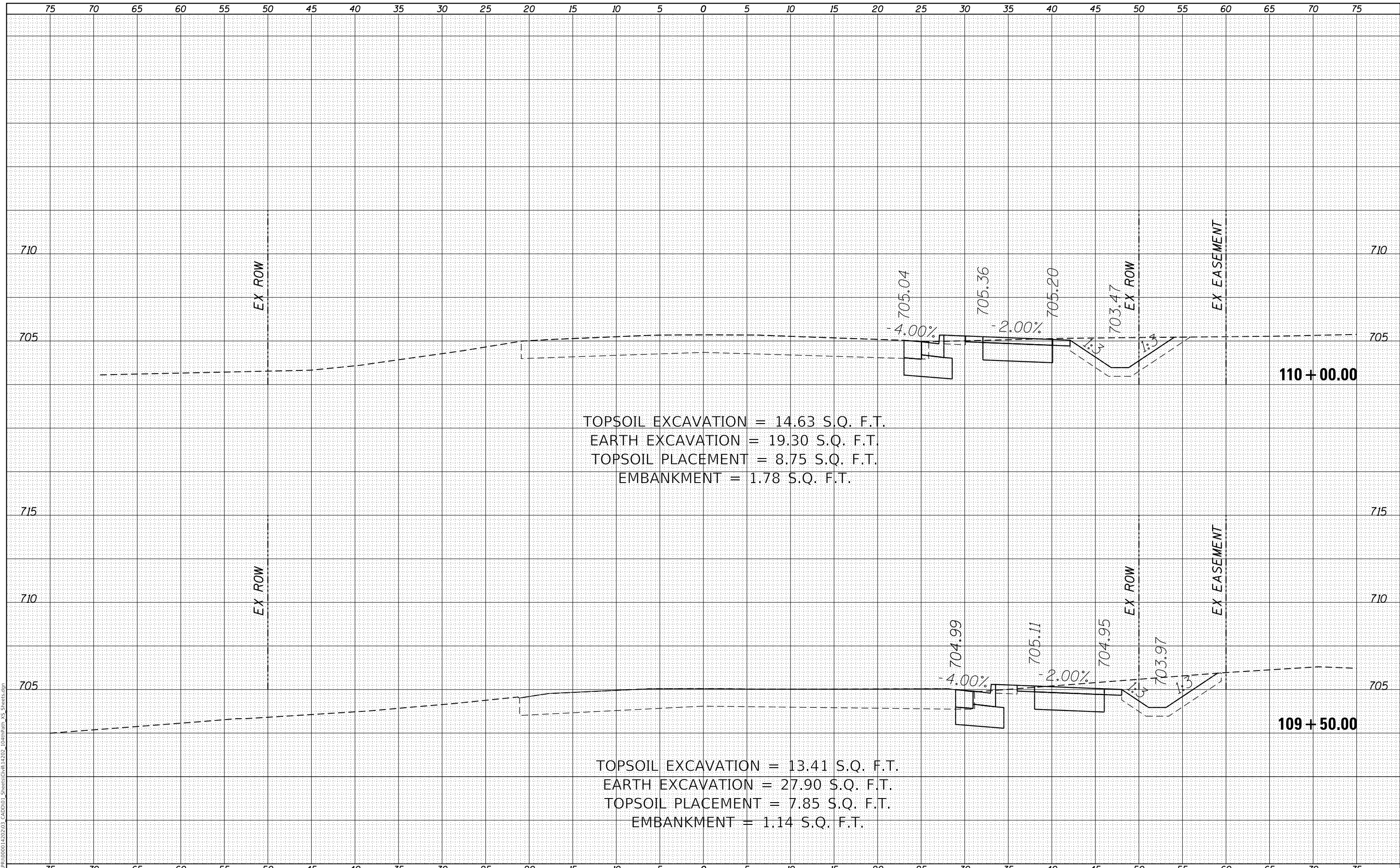
SCALE: 1"=10'H, 20'V SHEET 11 OF 32 SHEETS STA. 108+50.00 TO STA. 109+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	63
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\15001_1502\03_CADD\01_Sheets\Civil\1502_104thPath_VS_Sheets.dgn



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 = 4/5/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

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

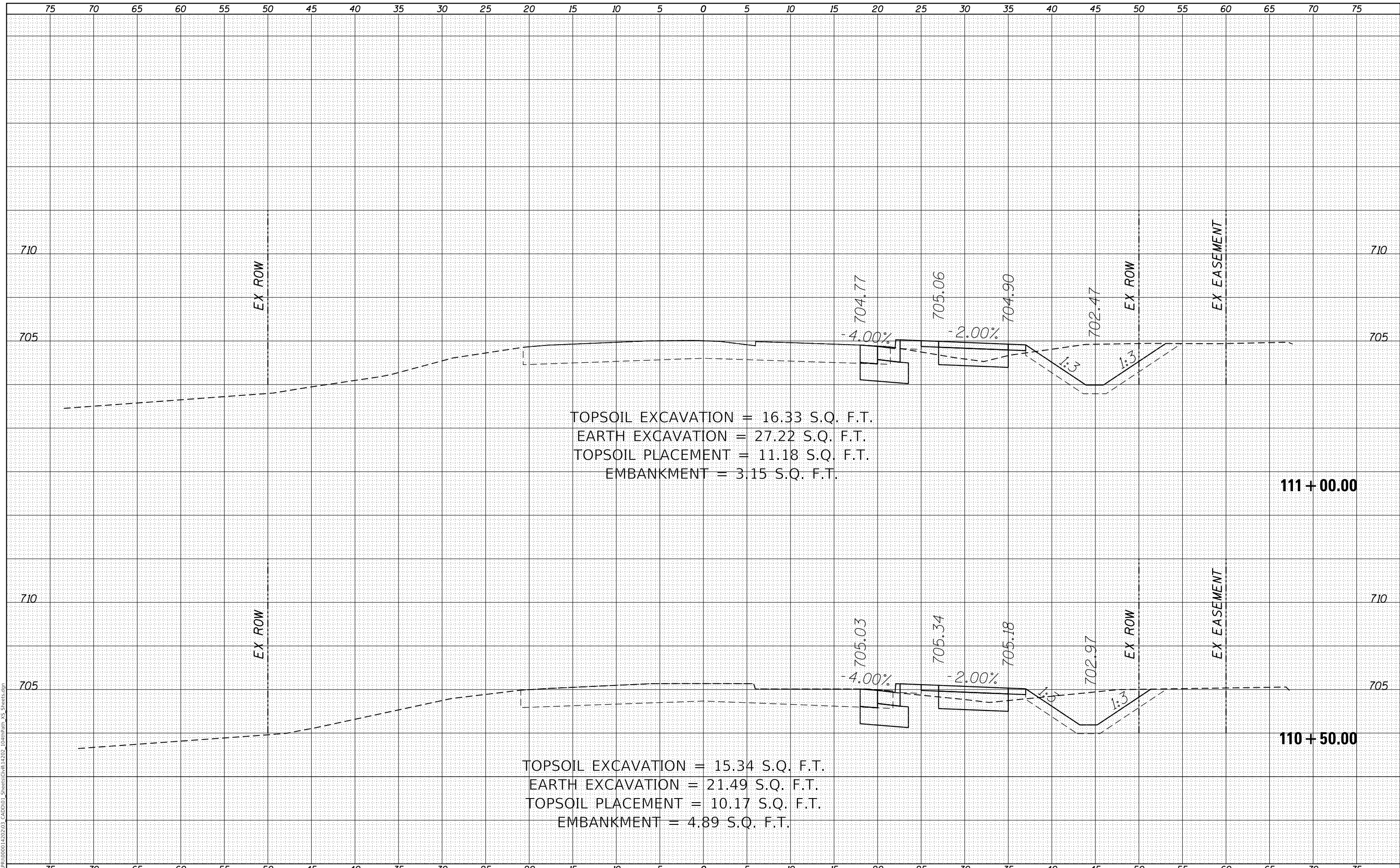
SCALE: 1"=10'H, 20'V SHEET 12 OF 32 SHEETS STA. 109+50.00 TO STA. 110+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	64
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:\C:\P\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.

111 + 00.00

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.

110 + 50.00

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 CHICAGO, IL 60606
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USER NAME = GG	DESIGNED - GG	REVISD -
	DRAWN - GG	REVISD -
PLOT SCALE =	CHECKED - AM	REVISD -
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISD -

VILLAGE OF ORLAND PARK

CROSS SECTIONS
104TH AVENUE SHARED-USE PATH

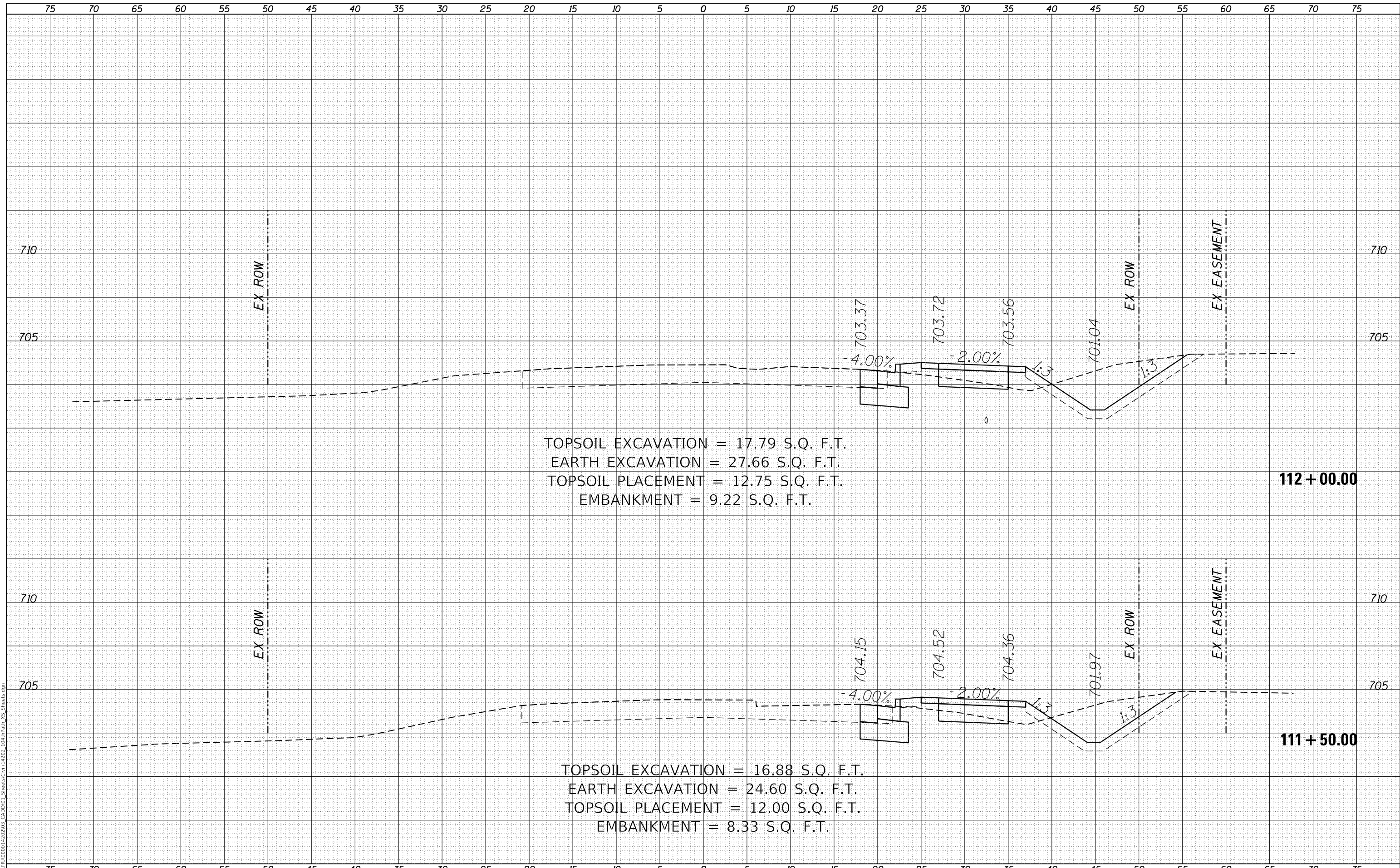
SCALE: 1"=10'H, 20'V SHEET 13 OF 32 SHEETS STA. 110+50.00 TO STA. 111+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	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
 FILE NAME: R:\CADD\1500014202\03_CADD\01_Sheets\Civil\14202_104thPath_VS_Sheets.dgn



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 = 4/5/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

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

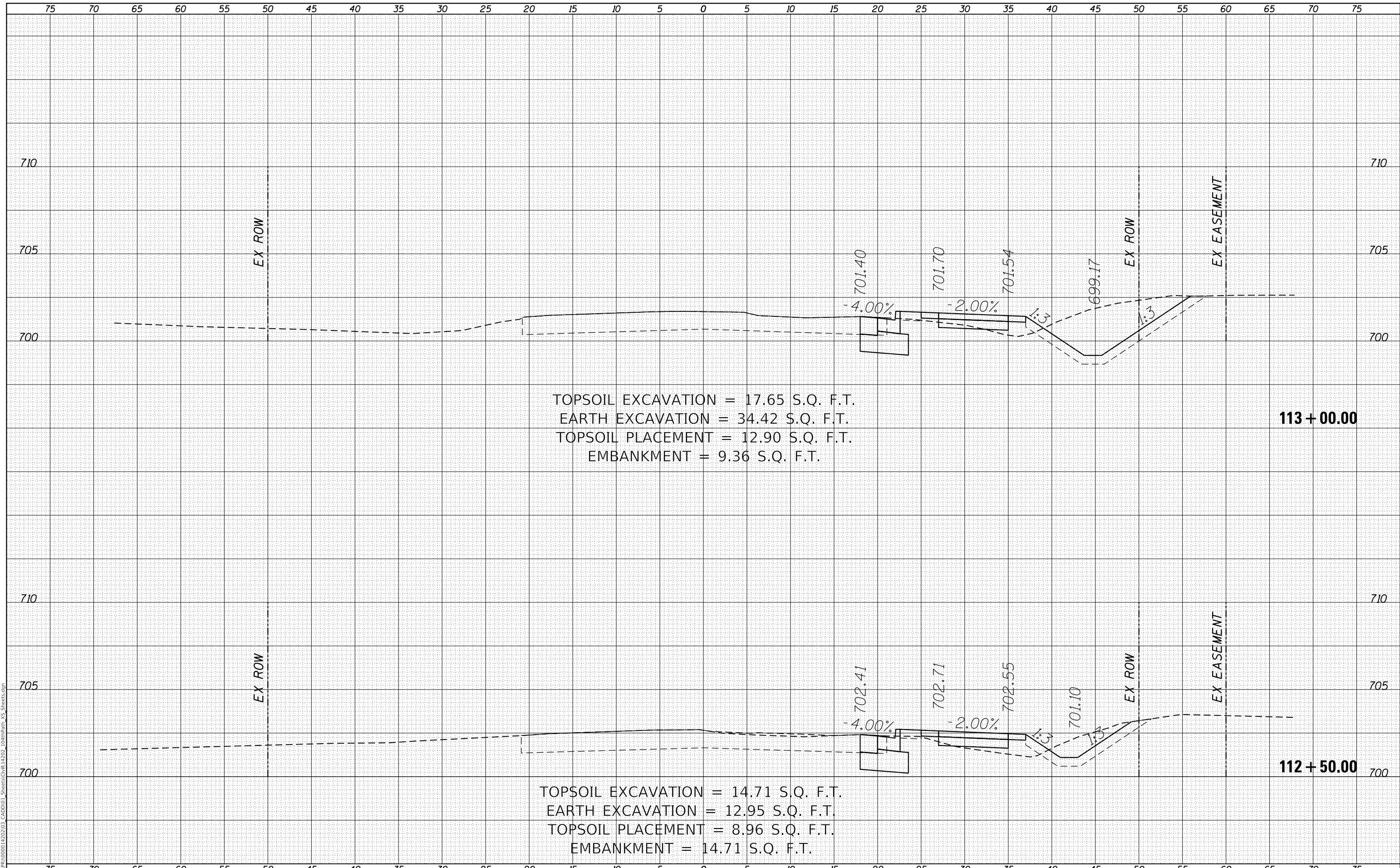
SCALE: 1"=10'H, 20'V SHEET 14 OF 32 SHEETS STA. 111+50.00 TO STA. 112+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	66
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: Definit
 FILE NAME: R:\CADD\150001\1502\03_CADD\01_Sheets\Civil\14202_104thPath_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 = 4/5/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

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

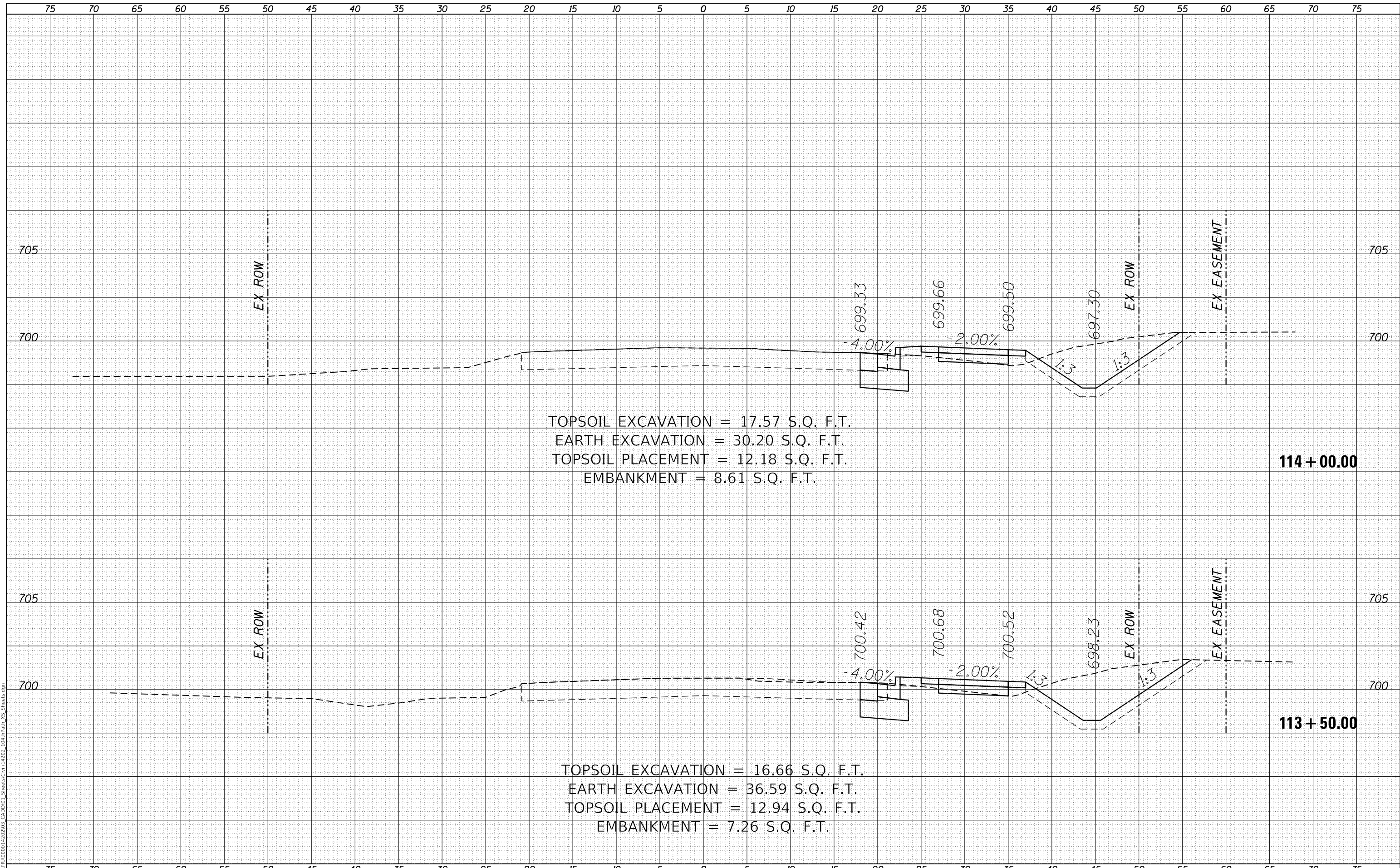
SCALE: 1"=10'H, 20'V SHEET 15 OF 32 SHEETS STA. 112+50.00 TO STA. 113+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	67
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



TOPSOIL EXCAVATION = 17.57 S.Q. F.T.
 EARTH EXCAVATION = 30.20 S.Q. F.T.
 TOPSOIL PLACEMENT = 12.18 S.Q. F.T.
 EMBANKMENT = 8.61 S.Q. F.T.

114 + 00.00

TOPSOIL EXCAVATION = 16.66 S.Q. F.T.
 EARTH EXCAVATION = 36.59 S.Q. F.T.
 TOPSOIL PLACEMENT = 12.94 S.Q. F.T.
 EMBANKMENT = 7.26 S.Q. F.T.

113 + 50.00

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USER NAME = GG	DESIGNED - GG	REVISIONS
	DRAWN - GG	REVISIONS
PLOT SCALE =	CHECKED - AM	REVISIONS
PLOT DATE = 4/5/2022	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

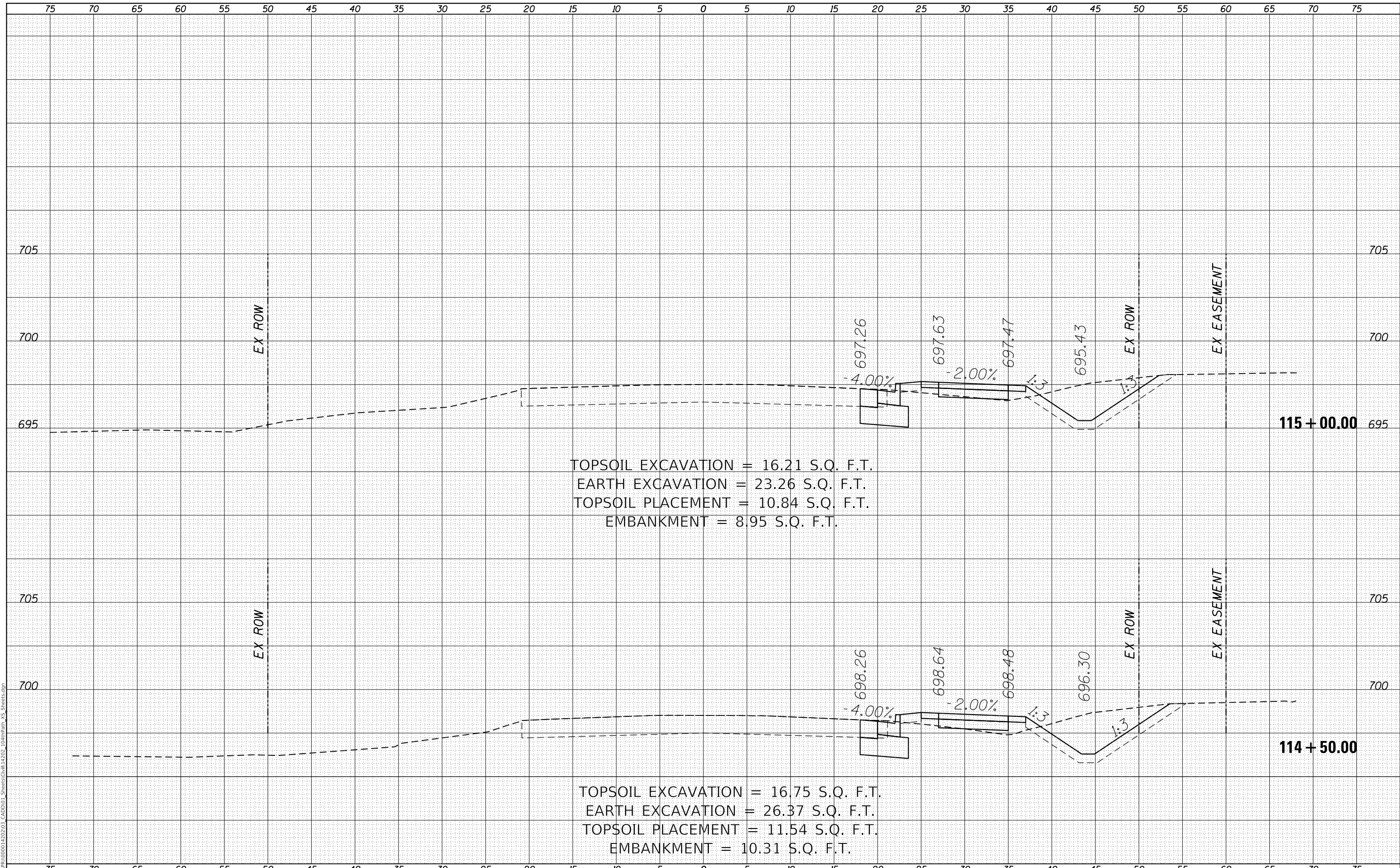
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	68
CONTRACT NO. 61H84				

ILLINOIS FED. AID PROJECT

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

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

MODEL: Defaulr
 FILE NAME: R:\CHP\1000014202_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 = 4/5/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

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

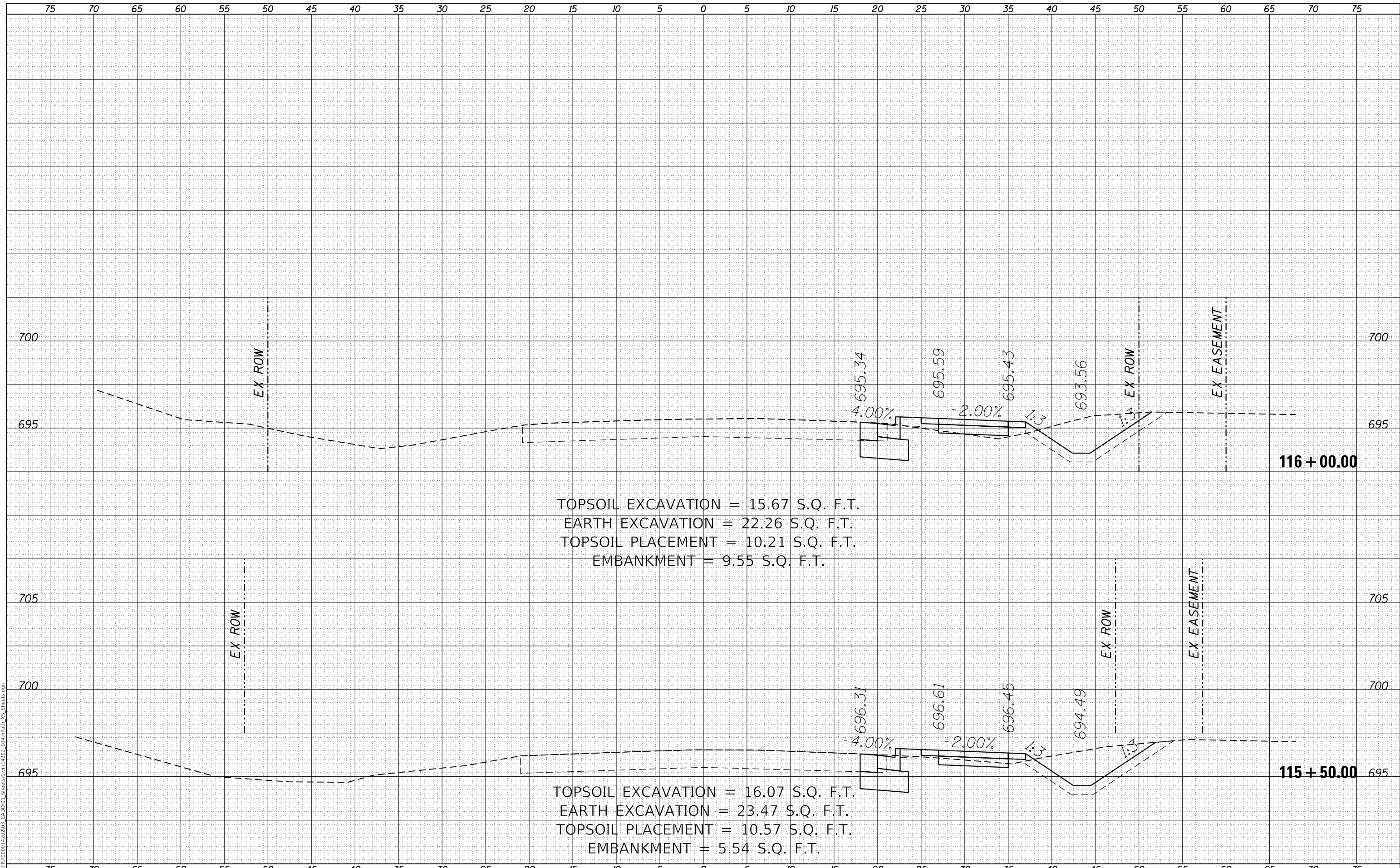
SCALE: 1"=10'H, 20'V SHEET 17 OF 32 SHEETS STA. 114+50.00 TO STA. 115+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	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:\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 = 4/5/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

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

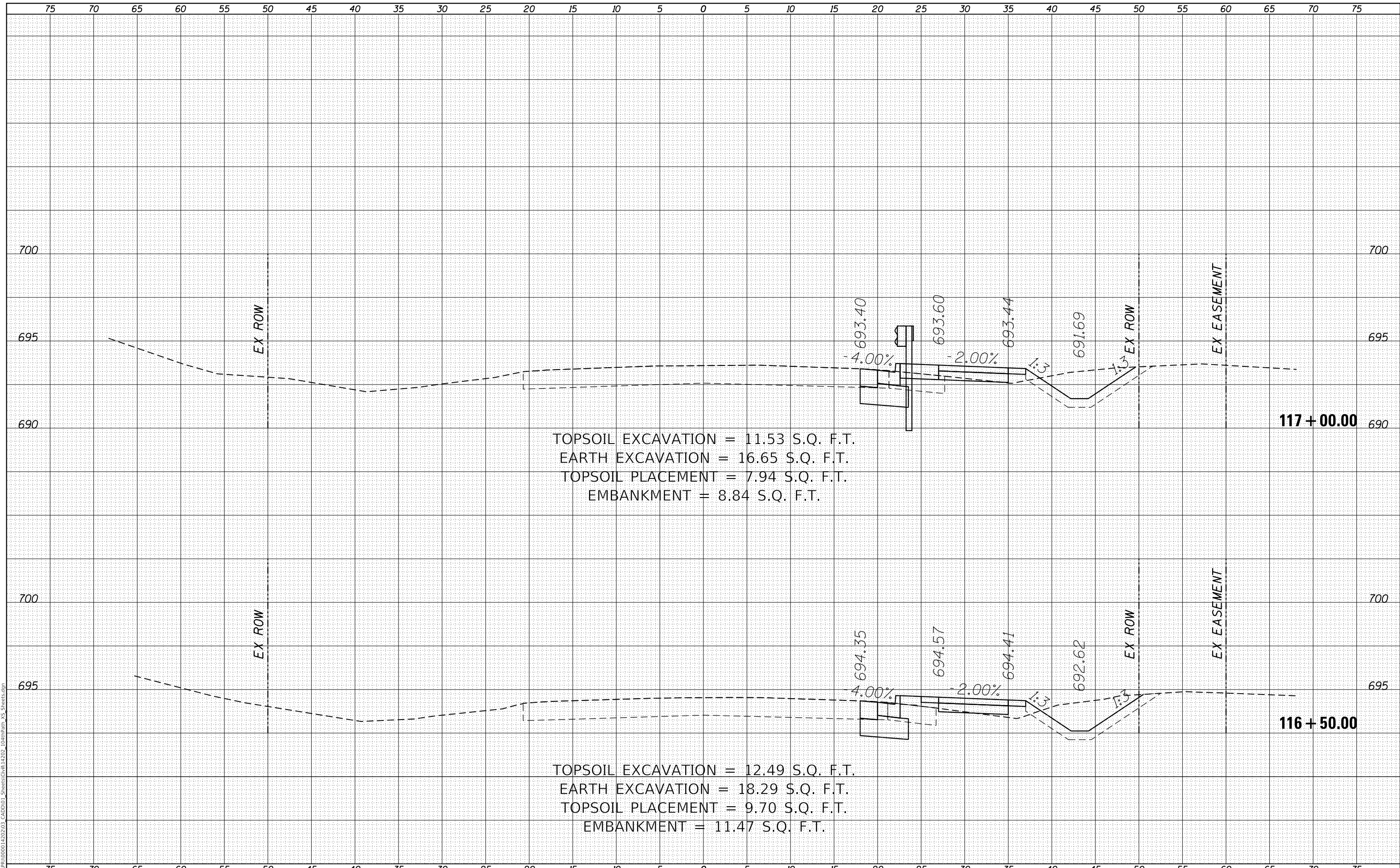
SCALE: 1"=10'H, 20'V SHEET 18 OF 32 SHEETS STA. 115+50.00 TO STA. 116+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	70
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
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TOPSOIL EXCAVATION = 11.53 S.Q. F.T.
 EARTH EXCAVATION = 16.65 S.Q. F.T.
 TOPSOIL PLACEMENT = 7.94 S.Q. F.T.
 EMBANKMENT = 8.84 S.Q. F.T.

TOPSOIL EXCAVATION = 12.49 S.Q. F.T.
 EARTH EXCAVATION = 18.29 S.Q. F.T.
 TOPSOIL PLACEMENT = 9.70 S.Q. F.T.
 EMBANKMENT = 11.47 S.Q. F.T.

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	DRAWN - GG	REVISIONS
PLOT SCALE =	CHECKED - AM	REVISIONS
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISIONS

VILLAGE OF ORLAND PARK

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

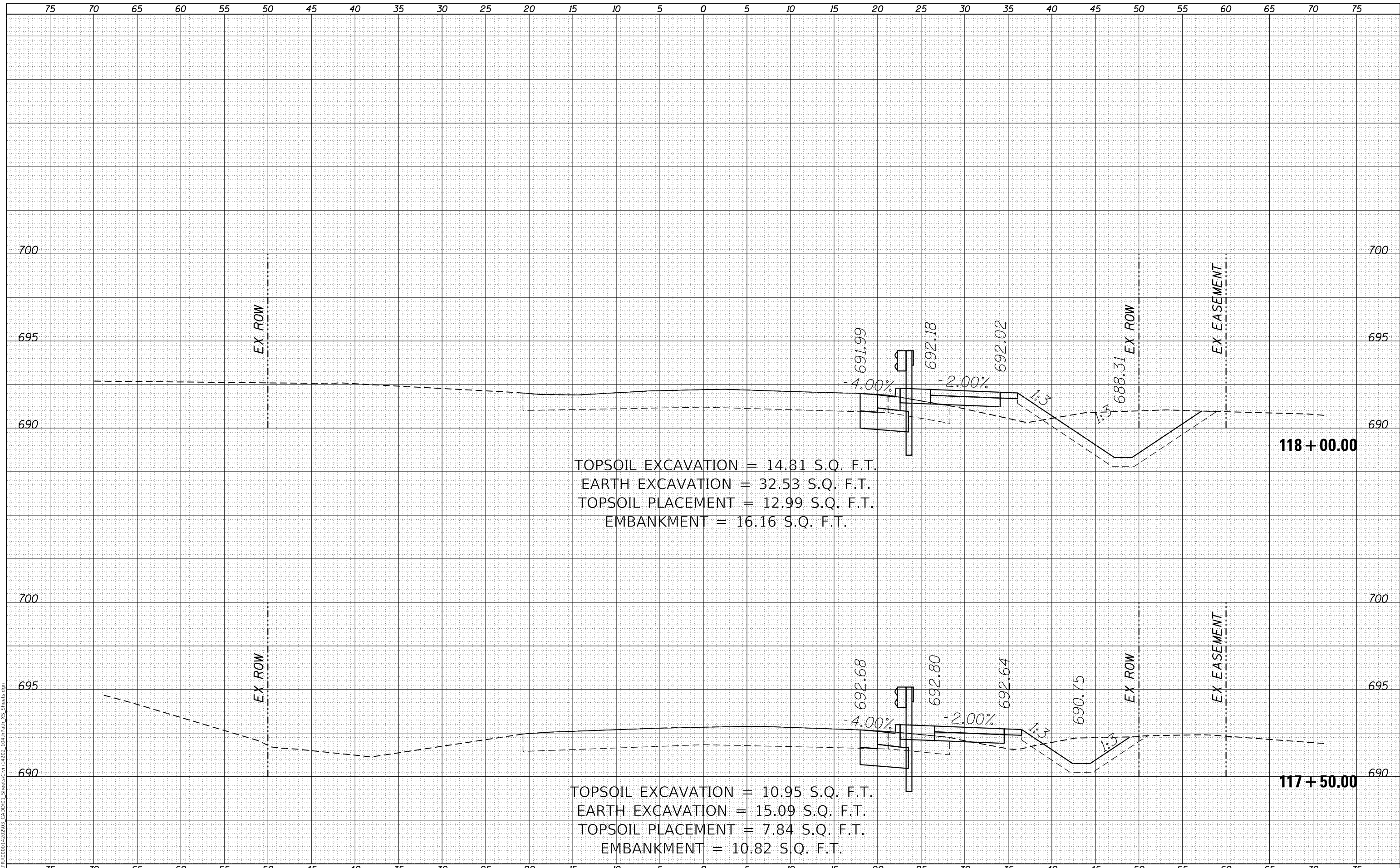
SCALE: 1"=10'H, 20'V SHEET 19 OF 32 SHEETS STA. 116+50.00 TO STA. 117+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	71
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\1500014202\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 = 4/5/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

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

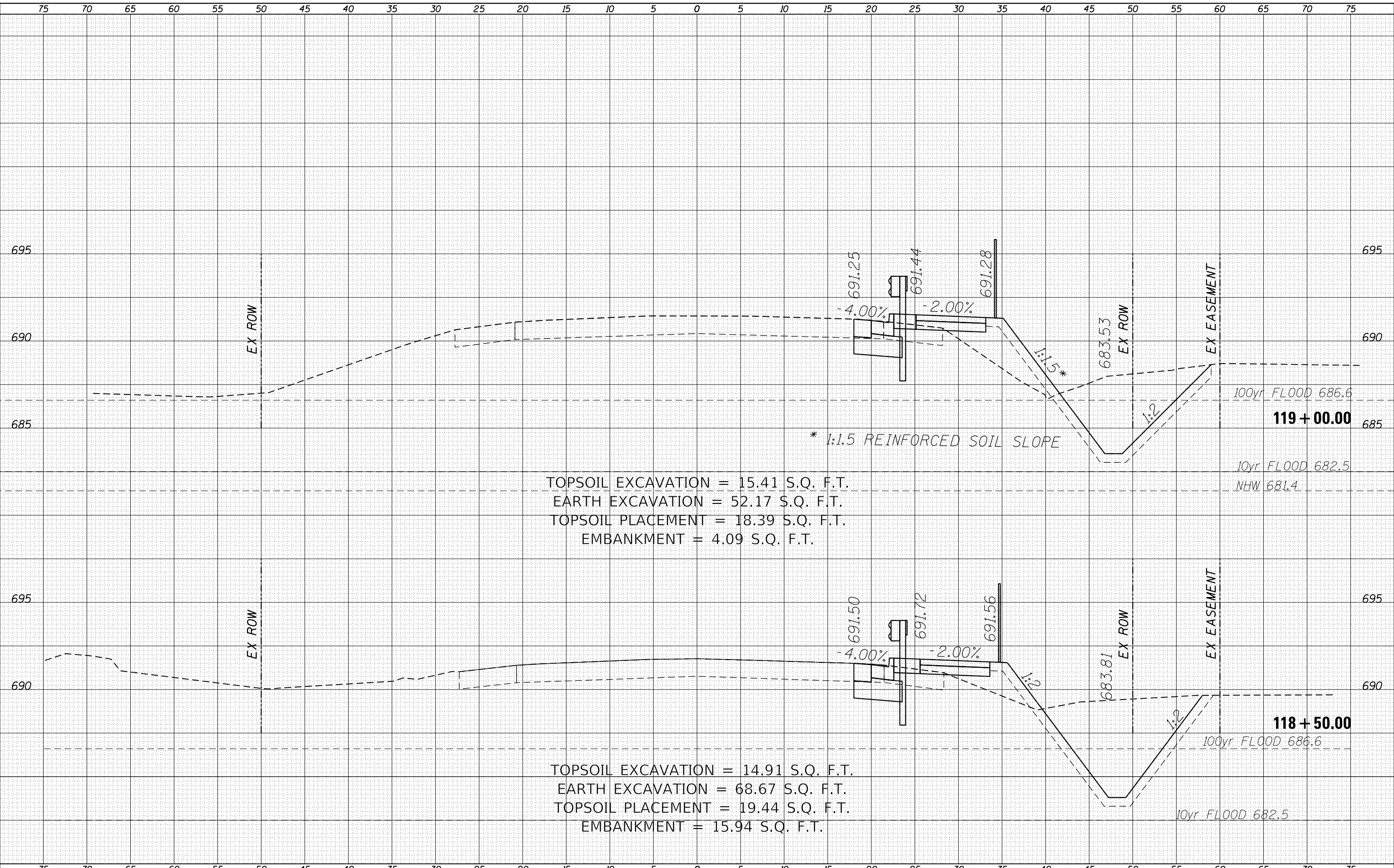
SCALE: 1"=10'H, 20'V SHEET 20 OF 32 SHEETS STA. 117+50.00 TO STA. 118+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	72
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
 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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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

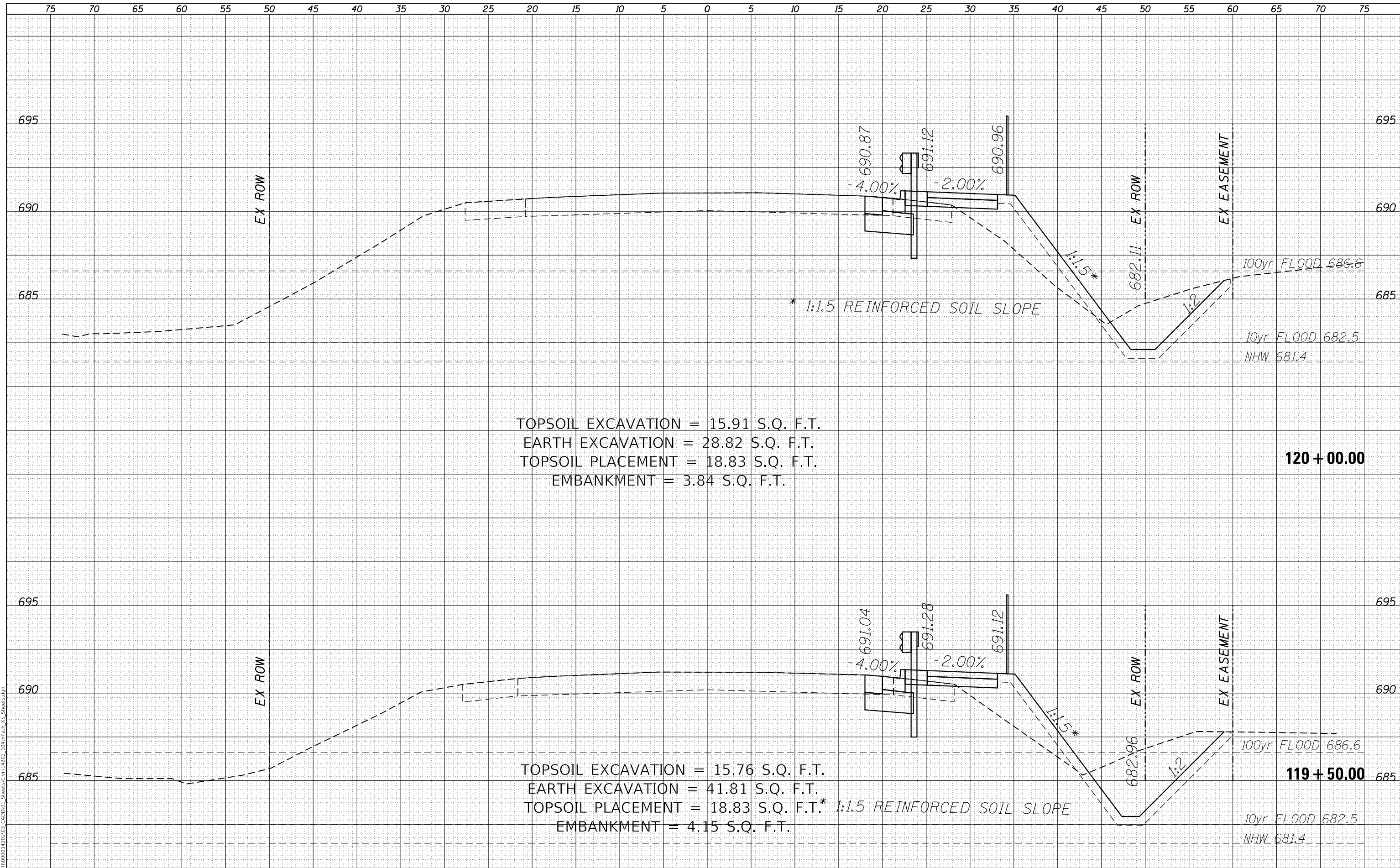
**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

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	84	73
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.

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.

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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISED -

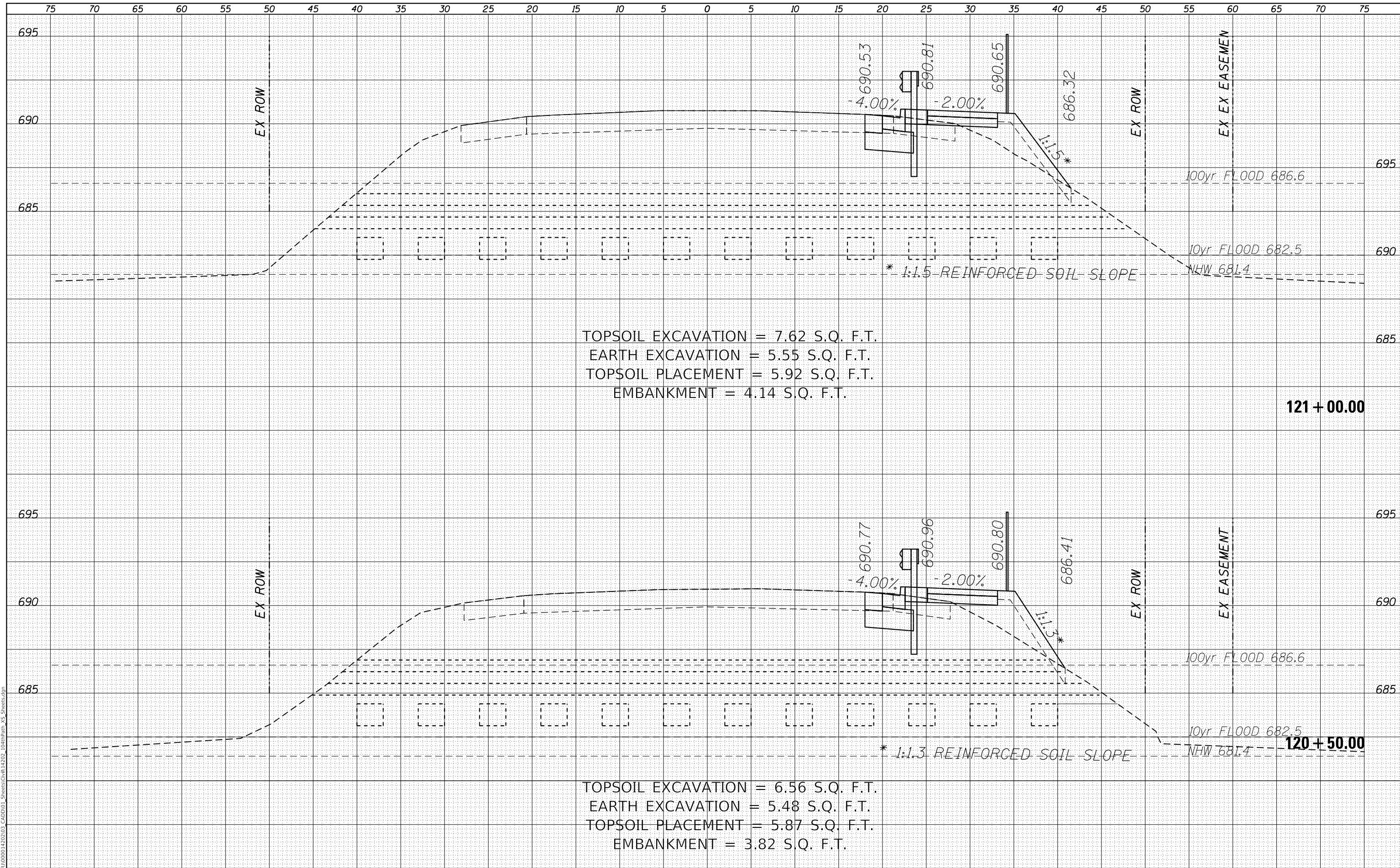
VILLAGE OF ORLAND PARK

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	84	74
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 -
PLOT SCALE =	DRAWN - GG	REVISED -
PLOT DATE = 4/5/2022	CHECKED - AM	REVISED -
	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

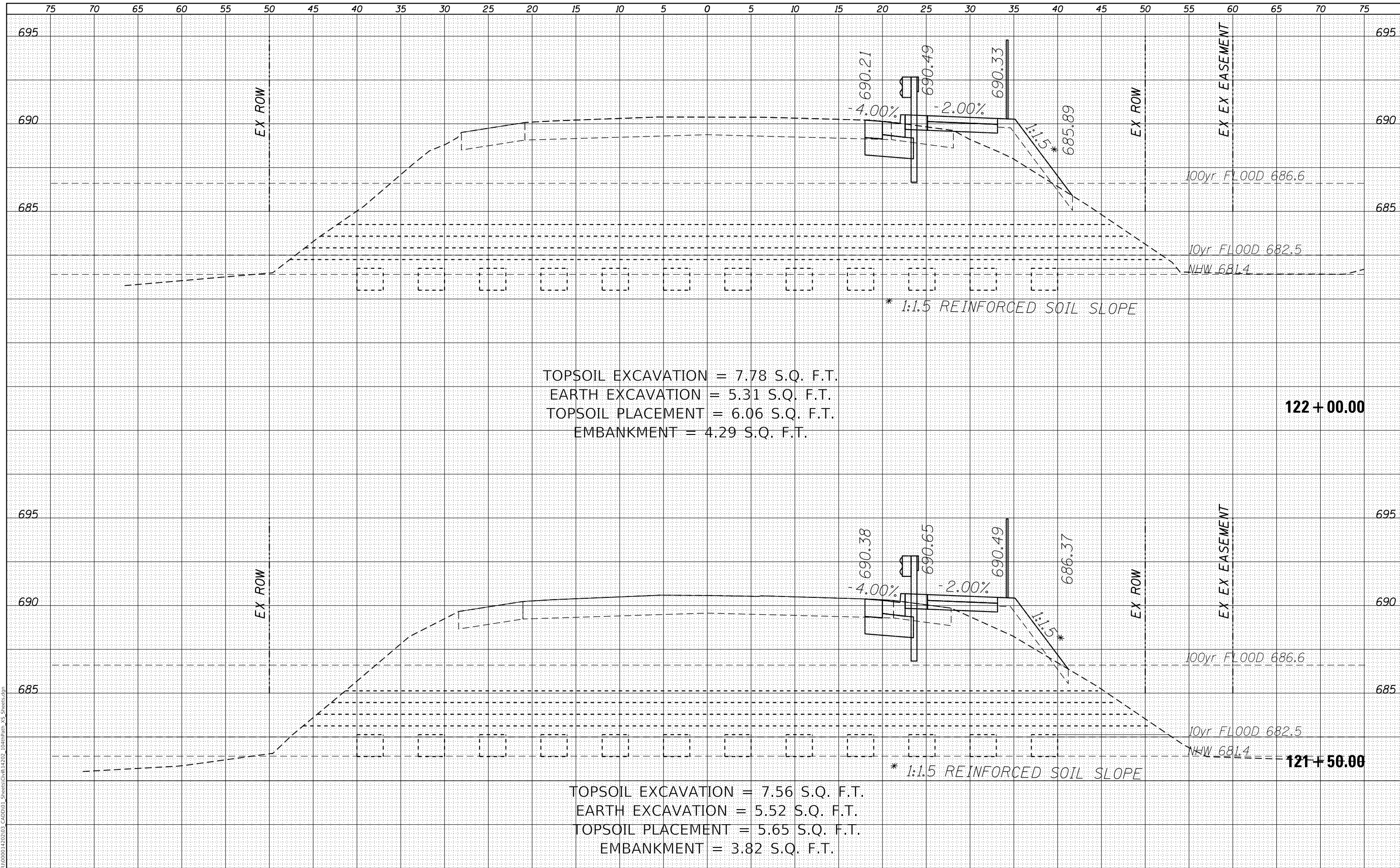
**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

SCALE: 1"=10'H, 20'V SHEET 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	84	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.	



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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

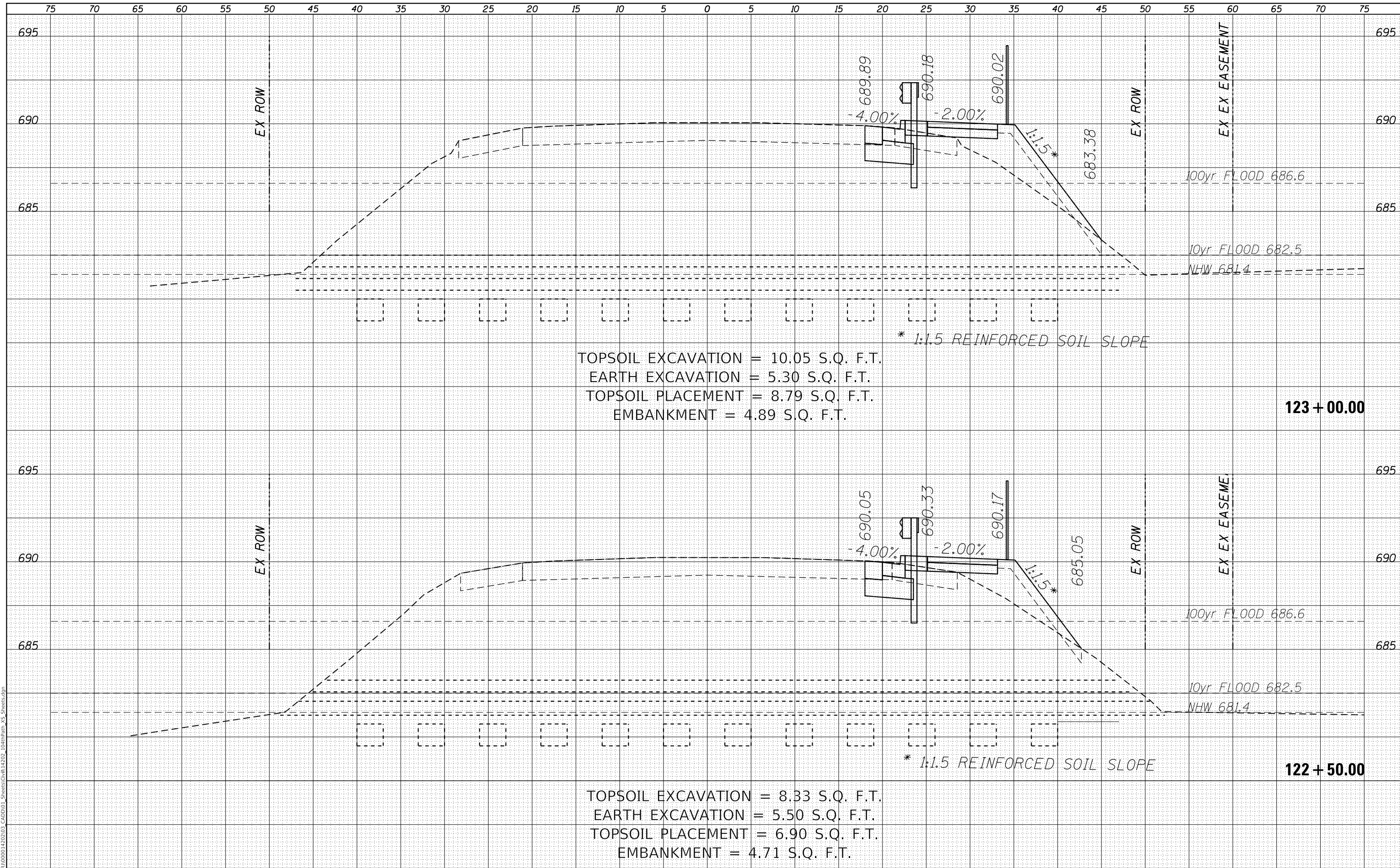
**CROSS SECTIONS
104TH AVENUE SHARED-USE PATH**

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	84	76
CONTRACT NO. 61H84				
ILLINOIS FED. AID PROJECT				

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

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



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USER NAME = GG	DESIGNED - GG	REVISED -
PLOT SCALE =	DRAWN - GG	REVISED -
PLOT DATE = 4/5/2022	CHECKED - AM	REVISED -
	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

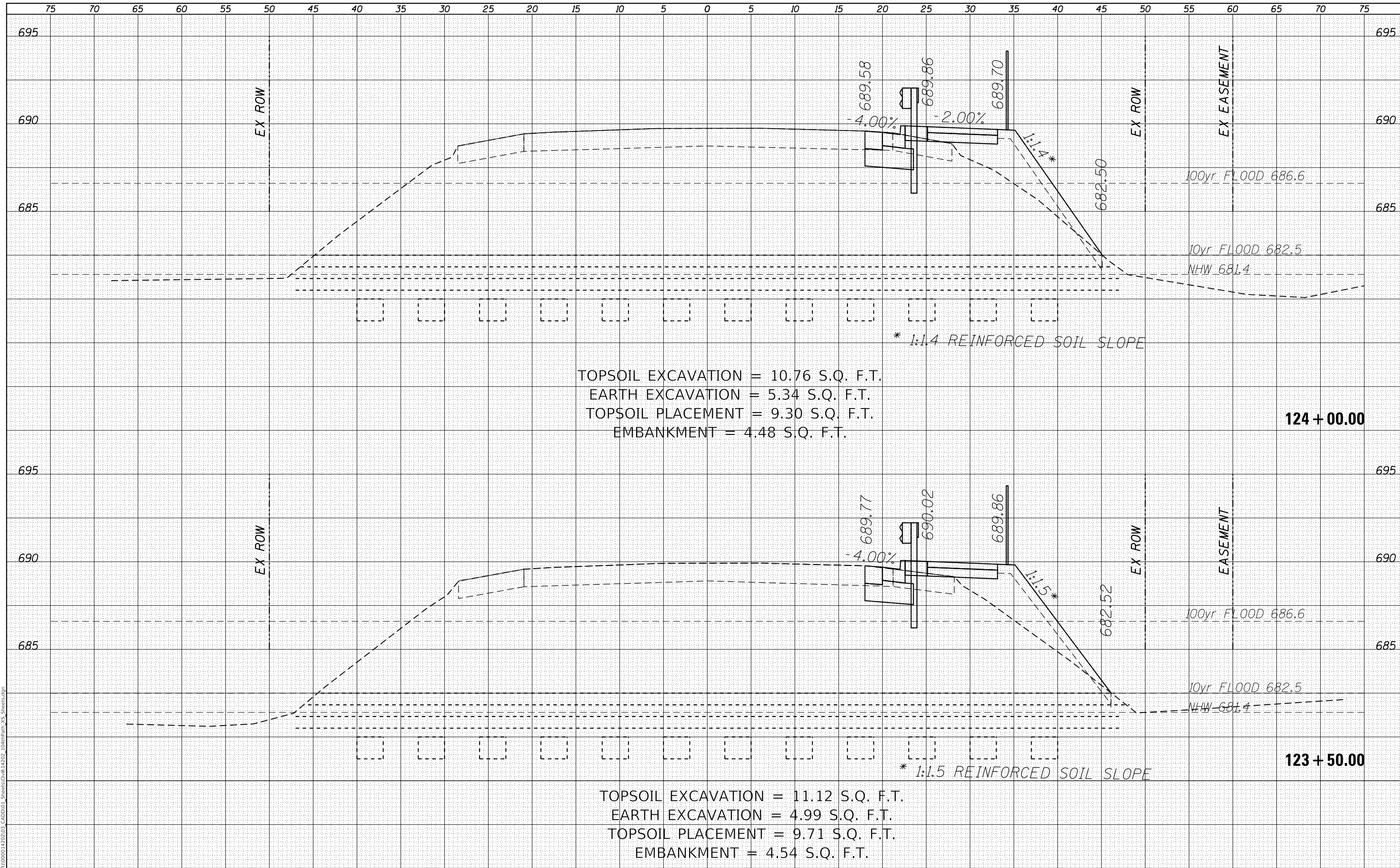
**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

SCALE: 1"=10'H, 20'V SHEET 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	84	77
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



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.

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.

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USER NAME = GG	DESIGNED - GG	REVISED -
	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISED -

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

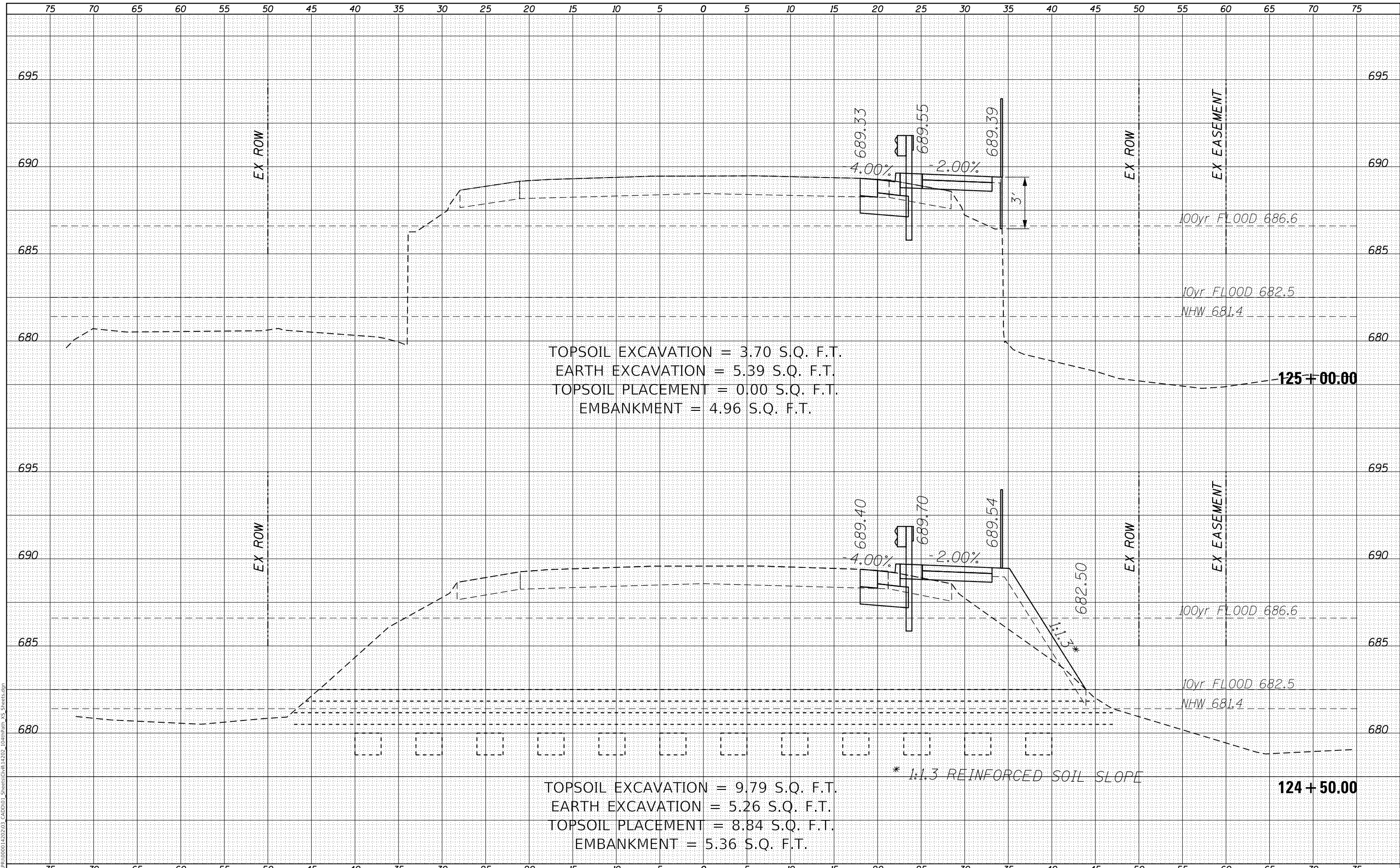
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	78
CONTRACT NO. 61H84				

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



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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	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

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

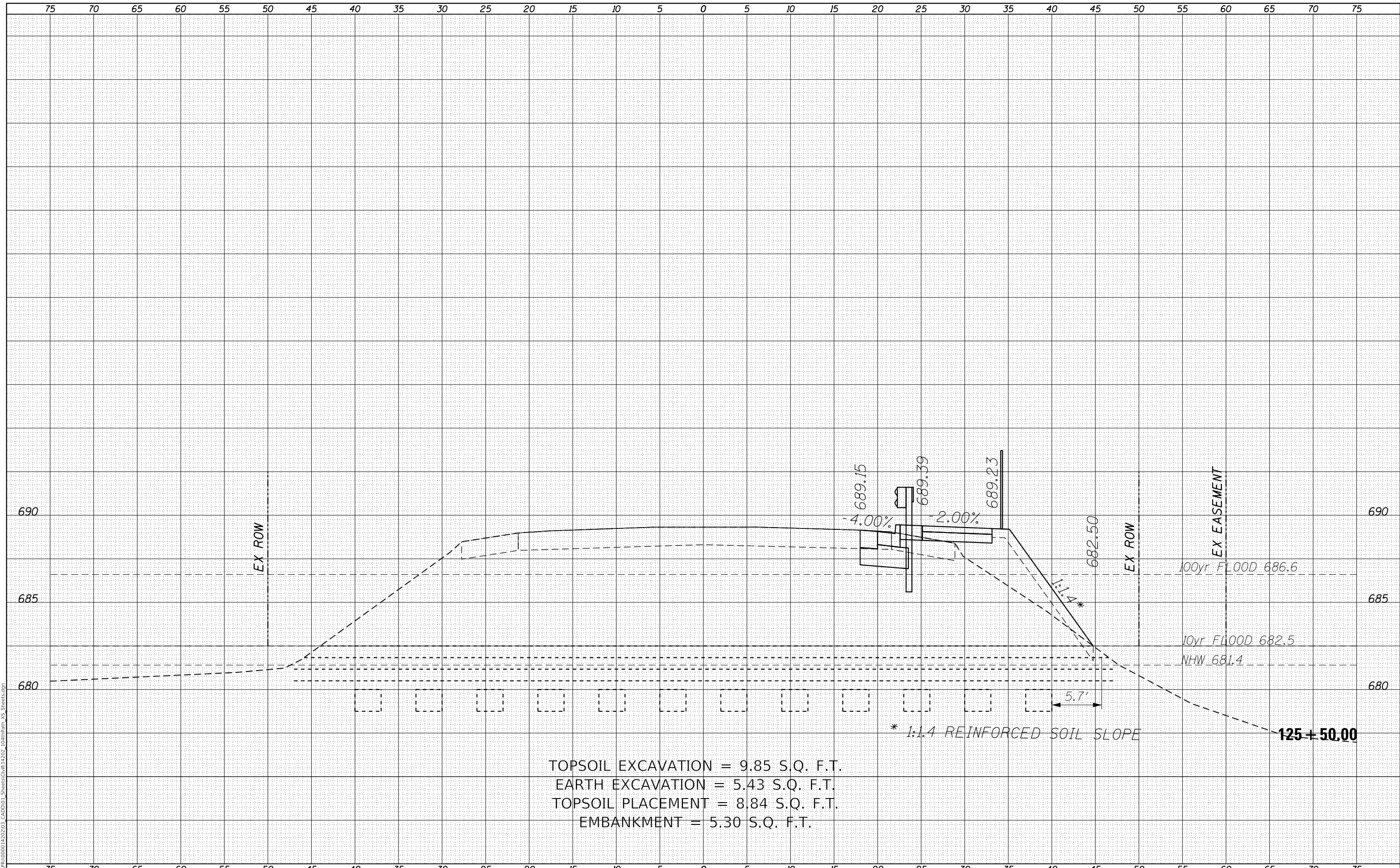
SCALE: 1"=10'H, 20'V SHEET 27 OF 32 SHEETS STA. 124+50.00 TO STA. 125+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	79
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\150001\2022\03_CADD\01_Sheet\Grid\14202_104thpav15_Sheet.dgn



TOPSOIL EXCAVATION = 9.85 S.Q. F.T.
 EARTH EXCAVATION = 5.43 S.Q. F.T.
 TOPSOIL PLACEMENT = 8.84 S.Q. F.T.
 EMBANKMENT = 5.30 S.Q. F.T.

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

USER NAME = GG	DESIGNED - GG	REVISD -
	DRAWN - GG	REVISD -
PLOT SCALE =	CHECKED - AM	REVISD -
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISD -

VILLAGE OF ORLAND PARK

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

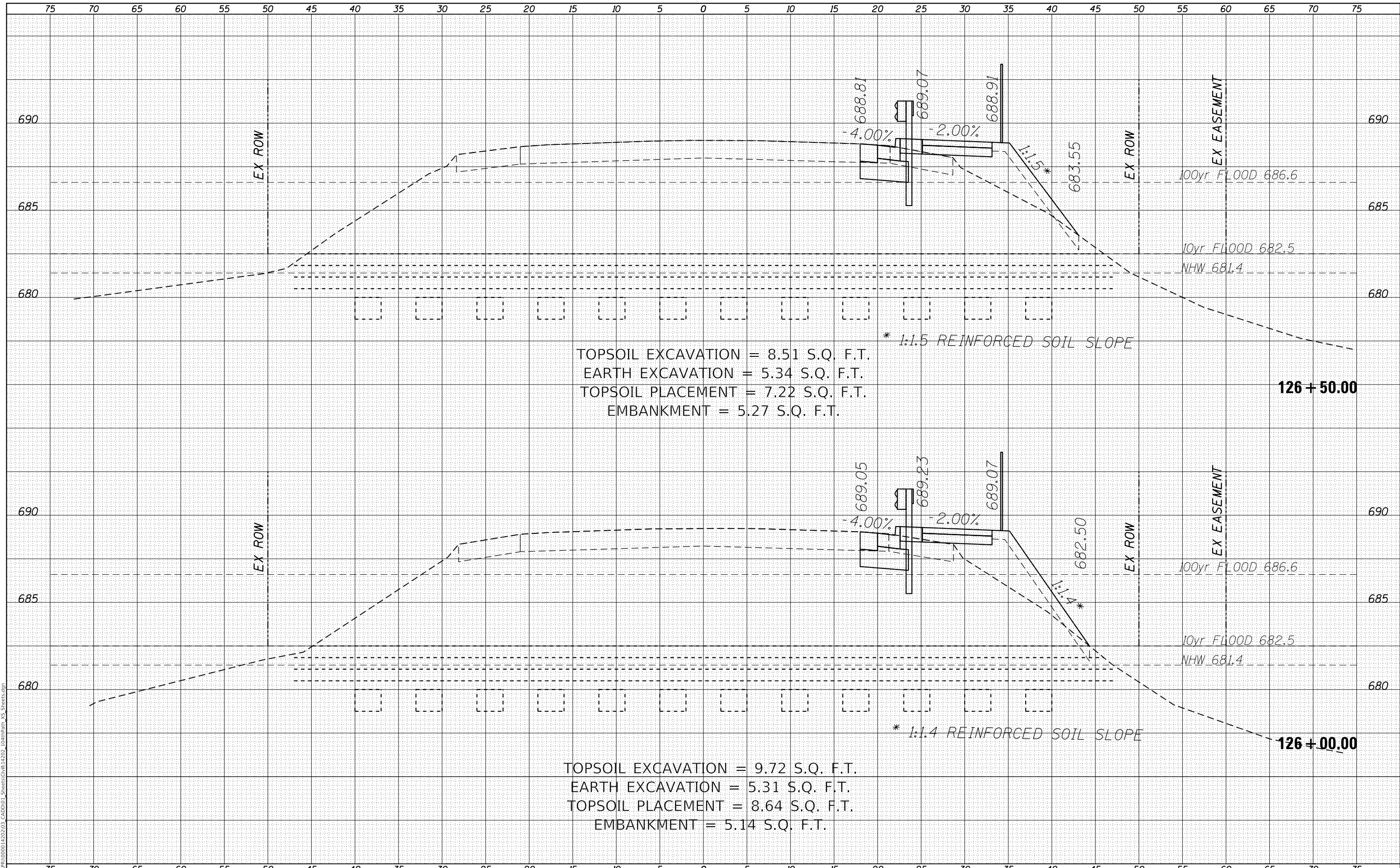
SCALE: 1"=10'H, 20'V SHEET 28 OF 32 SHEETS STA. 125+50.00 TO STA. 125+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	80
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
 FILE NAME: R:\CADD\1000014202\03_CADD\01_Sheets\Civil\14202_104thPath_VS_Sheets.dgn



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

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

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PLOT SCALE =	DRAWN - GG	REVISED -
PLOT DATE = 4/5/2022	CHECKED - AM	REVISED -
	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

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

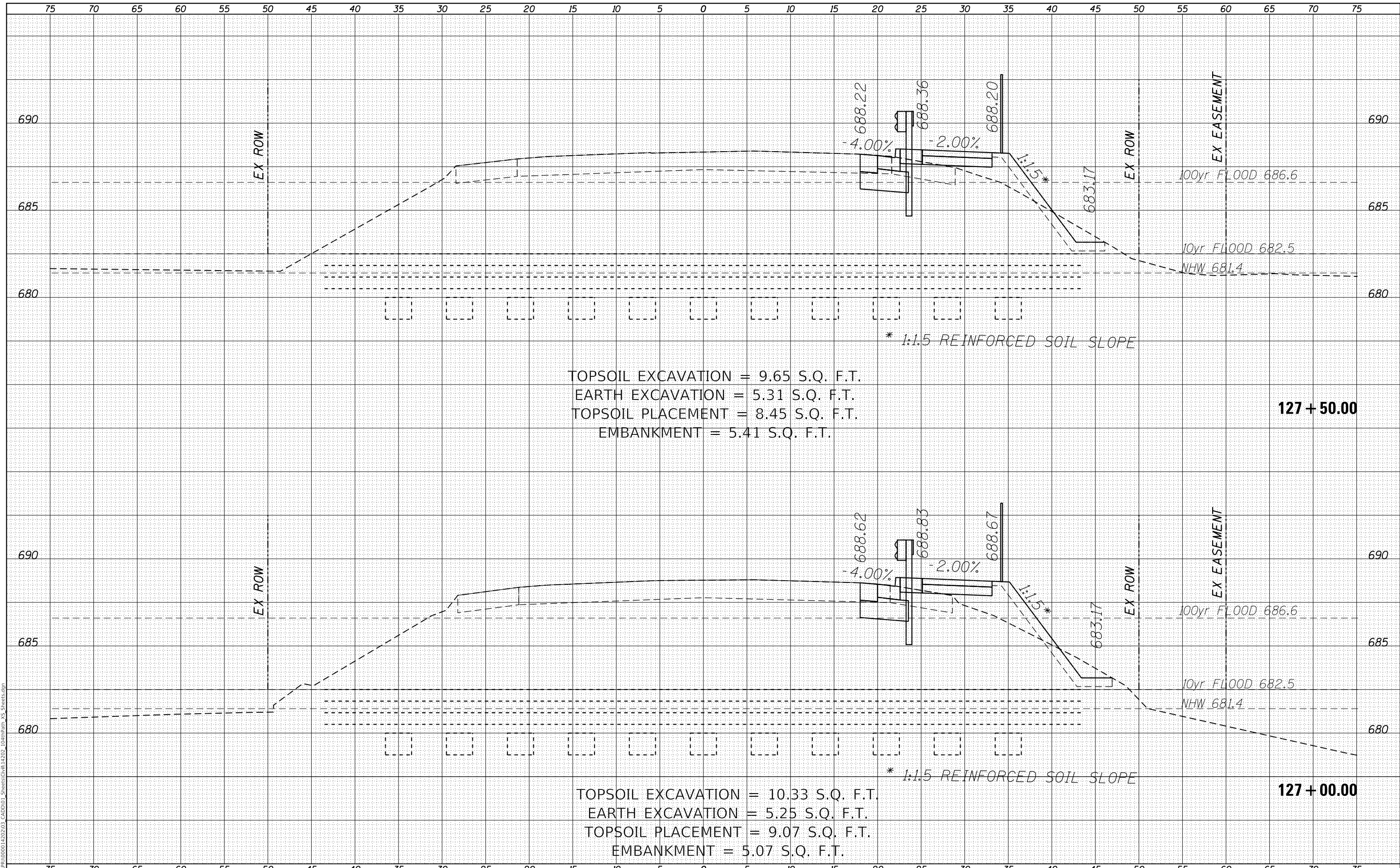
SCALE: 1"=10'H, 20'V SHEET 29 OF 32 SHEETS STA. 126+00.00 TO STA. 126+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2696	15-00077-00-BT	COOK	84	81
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\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.

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	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 4/5/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

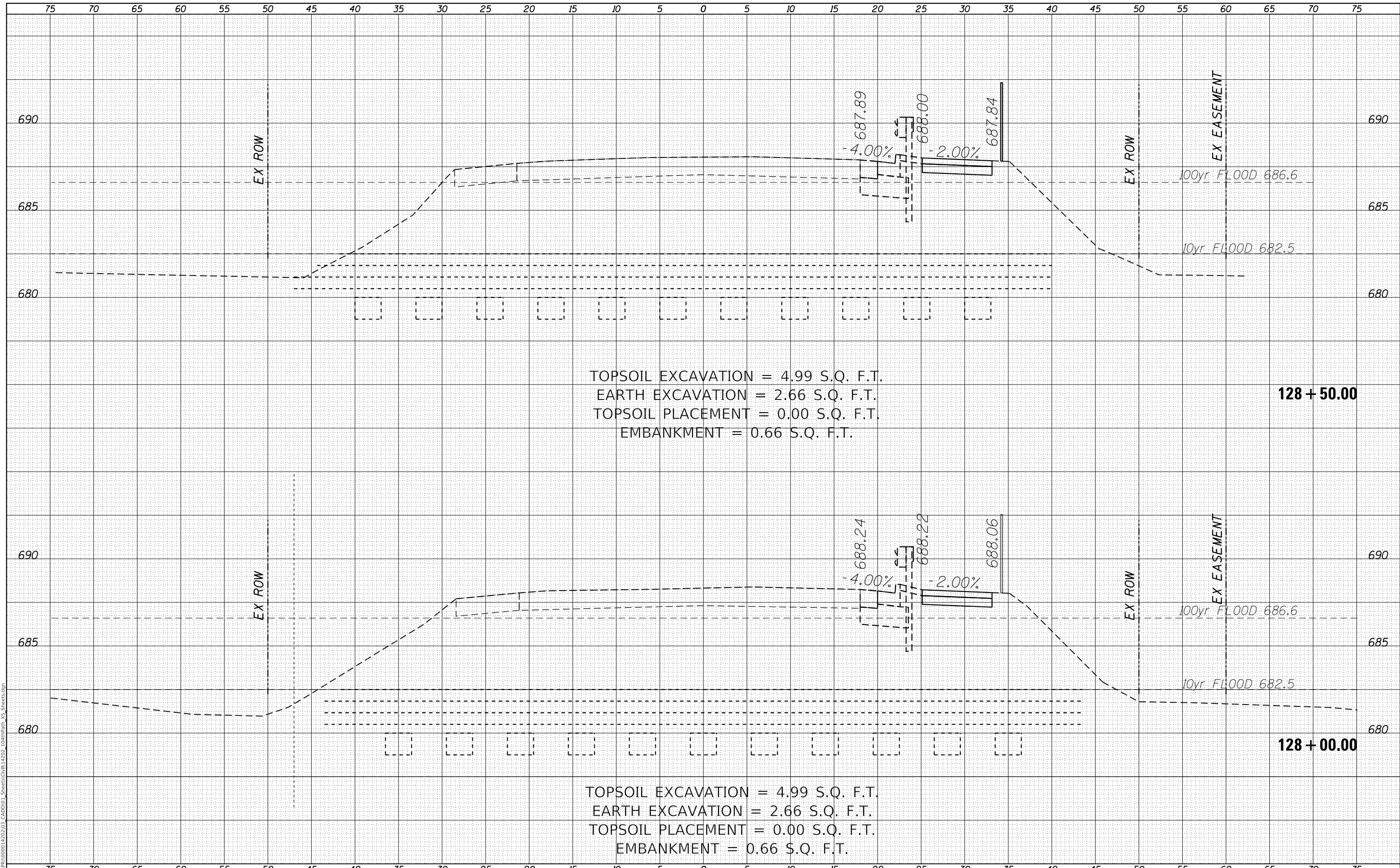
**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

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	84	82
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 = 4/5/2022	DATE - 4/6/2022	REVISED -

VILLAGE OF ORLAND PARK

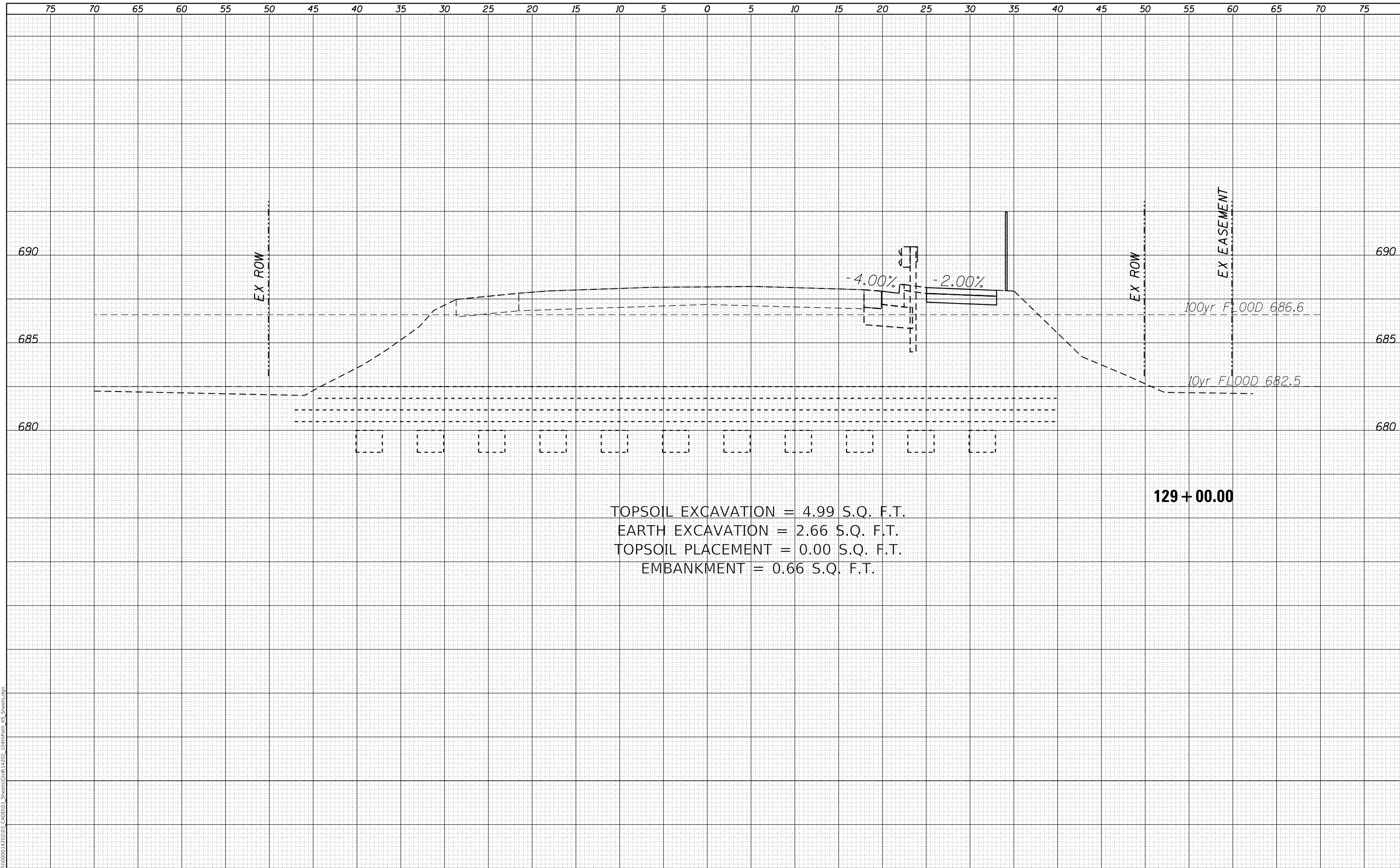
**CROSS SECTIONS
 104TH AVENUE SHARED-USE PATH**

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	84	83
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



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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	DRAWN - GG	REVISED -
PLOT SCALE =	CHECKED - AM	REVISED -
PLOT DATE = 4/5/2022	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	84	84
CONTRACT NO. 61H84				

ILLINOIS FED. AID PROJECT